

General

Information about special tools for the currently produced Haulers, Excavators, Motor Graders and Loaders. Tools for older machines and components are included, particularly those which also are used for the currently produced machines.

The most important information about the tools, e.g. designation, part number, class, illustration, range of application etc. are stated. The part number, which also is the tool number, should be used when ordering from Parts Departments. A short explanation about the work operation is given in the field "Used When". The machine and or component association means that a more detailed explanation can be found in the associated Service Manual, e.g. L220E, EC290B, D12C.

For many of the tools there are also suitable hooks with part numbers, and these hooks can be used for arranging tools on display boards. A summary of available hooks and boards can be found after the index.

Inquiries regarding the tools, their spare parts etc. can be directed to Volvo CE Customer Support, Service Engineering, fax No. +46 16 15 29 91 or via e-mail to "support.parts.wlo@volvo.com".

The tools are divided according to type/category, tabs 1–11, to facilitate searches when the tool number or other associations are not known. Under tab 0 there is an index that lists part (tool) numbers.

They are also divided into classes, according to different work operations, such as service and maintenance work, repair work or overhauling (see heading Classes).

For each product model there are separate suggestions with the tools arranged according to class.

Information about changes to the tools is passed on through the distribution of a new CD issue or via e-mail as Service Tips. In addition we will also continue to distribute information about tools together with instructions for use or work method in the form of Service Bulletins under group 080.

Spare Parts for Special Tools

Spares for the special tools are generally not stocked, with the exception of seals, O-rings etc. Available spares for the respective special tools are listed as a part number in the field Remark.

Warranty

The corresponding Warranty Conditions and Claims Handling apply to the special tools as to genuine spare parts.

Definition of a Special Tool

Tool or equipment essential to ensure the quality of each job and which are prescribed in the Service Manuals from Volvo CE Customer Support.

Designed and tested by Volvo CE Customer Support.

Designed and made externally to be used for a particular purpose or to be used together with another special tool.

Standard tools with high quality requirements, for example, pressure gauges.

Tools which can be made according to instructions in the Service Manuals.

0. General

Classes

BAS =	For carrying out service and maintenance work on the machines.
EXT =	For carrying out kinds of repair work on the machines, excl. overhauling main components, which have been removed from the machine.
ENG =	For overhauling engines, which have been removed from the machine.
TRA =	For overhauling transmissions/gearboxes, which have been removed from the machine.
AXL =	For overhauling axles, which have been removed from the machine.
HYD =	For overhauling hydraulic components, which have been removed from the machine.

Holding of Special Tools by Authorised Dealers

The minimum requirements from Volvo Construction Equipment for the holding of special tools by each authorised dealer in order to meet the Volvo Quality Standard are as follows:

Class	Authorised activities
BAS	Carry out service and maintenance work
BAS	Introduction of new product/model
BAS	Starting up a new market
BAS + EXT	Carry out repairs, service and maintenance work
ENG, TRA, AXL, HYD	Carry out overhaul of main components
BAS + access to EXT	Carry out service in the field from a service vehicle

The ever increasing requirements from our customers for reliability in operation and fast service – together with shortest possible down times – can only be met by Authorised Dealers through professional efforts.

In order to achieve this it is definitely not possible to hold back as far as correct tools and equipment are concerned.

Highly valued advantages that are also achieved through investing in correct tools and equipment are safety and good ergonomics for the mechanic, the elimination of damage to components and making sure of a good working environment.

0. General

11042173	11:8	11666138	11:7	11667135	6:8
11042174	11:8	11666139	2:52	11667140	6:8
11061273	1:15	11666145	11:5	11667145	6:8
11165029	1:16	11666148	3:10	11667150	6:9
11370460	6:28	11666149	3:10	11667155	6:9
11370465	6:28	11666161	8:1	11667160	6:9
11370466	6:28	11666167	3:37	11667165	6:10
11370467	6:29	11666170	9:19	11667170	6:10
11370469	6:115	11666171	9:20	11667185	6:10
11370470	6:115	11666172	4:17	11667190	6:10
1159080	3:40	11666173	2:53	11667195	6:11
11666003	2:3	11666174	5:73	11667200	6:11
11666008	2:51	11666175	4:17	11667220	6:11
11666013	5:1	11666176	4:18	11667264	6:12
11666016	2:4	11666177	4:18	11667400	6:12
11666017	2:4	11666178	5:76	11668002	2:27
11666018	2:5	11666179	6:117	11668003	2:28
11666019	2:5	11666180	9:16	11668004	3:8
11666020	2:6	11666181	2:66	11668005	3:8
11666022	2:6	11666182	2:66	11668006	2:20
11666023	2:13	11666185	5:68	11668007	4:1
11666027	2:13	11666186	5:68	11668008	4:1
11666031	5:9	11666187	5:68	11668009	4:12
11666032	5:9	11666188	5:69	11668010	4:1
11666037	2:7	11666189	5:69	11668011	4:11
11666039	9:2	11666190	5:69	11668012	4:2
11666040	9:2	11666191	5:70	11668013	1:1
11666042	5:4	11666192	5:70	11668014	4:8
11666043	5:3	11666193	5:70	11668015	4:9
11666046	5:2	11666200	8:5	11668016	4:2
11666051	2:1	11666901	11:9	11668017	4:9
11666052	2:1	11666903	11:10	11668018	4:13
11666054	5:5	11666904	11:11	11668019	9:5
11666055	5:8	11667001	6:1	11668020	7:51
11666090	7:1	11667010	6:1	11668021	9:5
11666091	6:92	11667050	6:2	11668022	9:3
11666092	6:93	11667055	6:2	11668023	4:16
11666093	6:93	11667060	6:2	11668024	7:49
11666095	2:58	11667065	6:3	11668300	3:19
11666096	2:60	11667070	6:3	11668301	6:42
11666097	2:60	11667075	6:3	11668302	6:42
11666098	2:60	11667080	6:4	11668303	3:19
11666099	2:60	11667085	6:4	11668304	6:43
11666102	11:12	11667090	6:4	11668305	2:78
11666119	2:20	11667095	6:5	11668306	6:43
11666122	11:6	11667100	6:5	11668307	2:78
11666124	2:20	11667104	6:5	11668308	6:43
11666125	11:7	11667105	6:6	11668309	6:43
11666129	3:9	11667110	6:6	11668310	6:44
11666131	3:9	11667115	6:6	11668311	3:20
11666134	11:6	11667118	6:7	11668312	2:78
11666135	2:51	11667120	6:7	11668313	6:44
11666136	2:52	11667125	6:7	11668314	6:44
11666137	3:9	11667130	6:8	11668316	6:44

0. General

11668317	6:45	11668374	6:50	11668535	7:9
11668319	6:117	11668376	6:51	11668536	7:9
11668320	6:49	11668377	6:51	11668537	7:10
11668321	2:79	11668378	6:52	11668538	7:10
11668322	6:45	11668379	7:57	11668544	7:10
11668323	6:45	11668380	7:58	11668548	7:11
11668324	6:45	11668381	6:52	11668549	7:11
11668325	3:20	11668382	6:52	11668550	6:33
11668326	6:46	11668383	6:52	11668551	6:33
11668327	3:20	11668384	6:53	11668552	6:34
11668328	7:59	11668385	6:53	11668553	6:34
11668329	6:54	11668386	4:19	11668554	6:34
11668330	6:46	11668387	3:20	11668555	6:35
11668331	6:54	11668388	3:21	11668556	6:35
11668332	2:79	11668389	6:53	11668557	3:18
11668333	6:46	11668390	6:54	11668558	6:35
11668334	6:46	11668400	6:114	11668559	7:6
11668337	6:47	11668401	6:114	11668560	3:17
11668338	6:47	11668402	5:53	11668561	3:18
11668339	6:47	11668403	7:49	11668562	6:30
11668340	6:47	11668404	5:54	11668563	6:30
11668341	6:48	11668405	2:77	11668564	6:31
11668342	6:54	11668406	6:115	11668574	3:16
11668343	2:79	11668408	2:78	11668576	3:16
11668344	7:56	11668409	8:8	11668577	4:19
11668345	4:19	11668500	6:32	11668578	3:18
11668346	7:59	11668501	6:33	11668579	3:18
11668347	7:61	11668502	2:71	11668580	3:19
11668348	7:60	11668503	7:5	11668581	7:8
11668349	6:48	11668504	2:72	11668582	2:84
11668350	2:79	11668505	2:72	11668583	5:74
11668351	2:80	11668506	2:73	11668584	5:74
11668352	2:80	11668507	6:32	11668585	5:75
11668353	2:80	11668508	7:5	11668586	5:75
11668354	6:48	11668509	7:5	11668587	5:77
11668355	7:56	11668510	7:7	11668588	5:77
11668356	6:48	11668511	2:73	11668589	6:31
11668357	6:49	11668512	7:7	11668590	6:40
11668358	7:57	11668513	3:14	11668591	6:32
11668359	7:57	11668514	3:14	11668592	6:40
11668360	7:58	11668516	2:74	11705446	11:8
11668361	7:59	11668517	2:74	11705447	11:9
11668362	7:58	11668518	2:74	11706852	11:11
11668363	7:59	11668519	7:8	11709649	8:1
11668364	4:19	11668520	7:8	11709650	8:7
11668365	7:60	11668521	7:8	11709655	8:1
11668366	7:57	11668522	7:8	11709666	8:2
11668367	7:60	11668523	2:74	11711946	1:16
11668368	7:60	11668524	3:15	11711947	1:17
11668369	7:58	11668525	3:16	11711948	1:17
11668370	5:76	11668526	3:15	11711949	1:18
11668371	6:49	11668527	2:14	11712316	2:80
11668372	6:50	11668528	3:17	11713129	7:4
11668373	6:50	11668529	3:17	11713131	2:55

0. General

11715239	2:83	14360069	7:11	14524236	2:50
13487293	2:47	14360071	7:12	14524910	5:77
13487301	2:47	14360072	7:12	14526532	6:75
13487319	2:47	14360073	7:12	14526533	3:25
13495379	2:47	14360074	7:13	14526534	5:55
13837109	2:25	14360076	7:20	14526535	6:75
13848080	2:47	14360077	7:20	14527713	4:15
13866983	2:47	14360078	7:20	14527714	7:25
13877139	3:39	14360079	7:21	14527715	9:20
13877840	3:12	14360080	7:21	14527716	9:16
13933852	1:10	14360081	7:21	14527717	6:76
13977467	2:51	14360083	7:16	14527718	7:42
14030335	8:7	14360084	7:17	14527719	6:76
14032279	5:19	14360085	7:17	14527720	9:20
14032405	5:20	14360086	7:17	14527842	2:18
14032491	5:19	14360087	7:18	14527843	2:18
14033319	9:17	14360091	7:13	14527844	6:77
14033320	5:20	14360094	7:15	14527845	6:77
14210992	11:13	14360095	7:15	14527846	7:28
14211207	8:8	14360097	7:16	14527847	9:21
14264397	2:19	14360098	7:16	14527848	2:69
14290000	2:66	14360100	7:18	14527849	9:16
14290046	5:9	14360101	7:18	14527850	6:80
14290241	2:67	14360102	7:19	14527851	6:81
14290262	2:12	14360103	7:19	14527852	6:81
14290266	2:2	14360104	7:19	14527853	6:94
14290300	5:18	14360106	7:13	14527854	6:81
14290302	5:19	14360107	7:14	14527912	5:63
14341364	2:12	14360108	7:14	14527914	7:27
14345342	1:26	14360109	7:14	14527915	7:27
14360000	1:6	14360110	7:15	14527916	7:28
14360003	3:29	14360113	1:18	14527917	7:27
14360005	3:30	14360114	6:108	14527918	7:28
14360014	3:30	14360116	2:67	14527919	6:82
14360017	3:30	14514176	3:24	14527920	6:82
14360019	3:30	14514178	5:55	14527921	6:82
14360021	3:31	14514179	6:108	14527922	6:83
14360024	5:64	14514180	7:25	14527923	6:83
14360025	5:65	14514181	6:108	14527924	6:83
14360026	5:65	14514182	6:109	14527925	6:84
14360027	5:65	14514404	7:23	14527926	6:84
14360028	5:65	14514405	7:24	14527927	6:84
14360029	5:66	14514406	7:24	14527928	7:29
14360030	5:15	14514407	6:110	14527929	7:29
14360031	5:15	14514415	6:110	14527930	7:29
14360032	5:15	14515619	6:110	14527931	7:30
14360033	5:70	14515796	9:17	14527932	7:30
14360034	5:71	14515798	5:54	14528284	6:85
14360035	5:71	14516285	6:111	14528285	6:85
14360036	5:72	14516286	6:111	14528286	2:69
14360037	5:72	14516287	6:111	14528287	2:70
14360038	5:72	14516288	6:112	14528288	2:18
14360039	5:73	14519445	6:73	14528289	2:19
14360061	3:33	14519459	6:75	14533601	5:55

0. General

14537336	2:81	14633686	6:73	46659850	7:63
14545035	5:79	14634308	6:109	4821970	1:15
14545036	6:86	14634309	6:109	4821971	1:14
14545037	6:87	14635800	5:72	4821972	1:15
14546451	3:40	14638500	5:78	4836132	1:13
14548448	5:10	15018967	2:9	4881518	1:16
14548449	5:11	15182963	7:48	4881519	1:17
14548450	5:11	1650540	7:51	4881762	1:14
14549671	6:87	17201553	2:19	4940506	1:14
14550035	3:25	18516	3:13	49765	8:8
14550036	7:30	2250320	6:27	49766	8:8
14550037	7:32	2288674	6:36	5235708	3:21
14550038	3:25	2288756	5:29	5235714	6:28
14550039	7:31	2289391	7:54	5235717	6:38
14550040	7:32	2289392	7:55	5235720	6:36
14550041	7:31	2289395	3:22	5235732	5:33
14550042	3:26	2291179	2:75	5235734	5:34
14550043	7:31	2291184	6:39	5235901	6:37
14550044	3:26	2291222	6:29	5235907	6:37
14550045	7:32	2814216	1:2	5450012	6:104
14550046	7:33	2901761	6:116	54542469	2:85
14555896	6:87	2901762	6:116	56474	2:54
14555897	6:88	2901763	6:116	56475	2:53
14555898	6:88	2901941	5:34	6999001	6:13
14555899	6:88	2901980	5:33	6999002	6:13
14559282	5:34	2901982	2:75	6999003	6:13
14560122	3:27	2901983	2:75	6999004	6:13
14560123	3:27	2902691	2:85	6999005	6:14
14560124	3:28	2904628	2:57	6999007	6:14
14560125	3:28	2904634	6:100	6999009	6:14
14560126	3:28	2904636	3:38	6999010	6:14
14560127	3:29	2904637	2:83	6999015	6:15
14560748	5:11	2904638	2:83	6999018	6:15
14566479	5:12	2906246	3:39	6999020	6:16
14576840	2:28	2907327	6:39	6999022	6:16
14597392	2:50	2907328	6:29	6999024	6:16
14599542	6:89	2907329	5:33	6999025	6:17
14599543	6:89	2907334	5:30	6999028	6:17
14599544	6:89	2907335	5:29	6999030	6:17
14599545	6:90	2907336	5:33	6999032	6:18
14599546	2:68	2907337	5:30	6999034	6:18
14599549	6:91	2907340	6:27	6999035	6:18
14599550	6:91	2907341	2:75	6999038	6:19
14599551	6:92	2907667	6:42	6999040	6:19
14599552	2:68	2915095	7:61	6999044	6:19
14609308	5:27	2915096	7:61	6999045	6:20
14609309	4:16	29859	3:13	6999048	6:20
14623167	2:81	33172	6:118	6999050	6:20
14630323	7:22	35895432	2:51	6999052	6:21
14630696	6:78	43823012	5:78	6999055	6:21
14632430	3:27	43823020	5:78	6999057	6:21
14633155	6:90	43878552	10:5	6999058	6:22
14633156	2:69	43898410	5:79	6999060	6:22
14633157	6:90	43936764	5:79	6999062	6:22

0. General

6999065	6:23	88820016	2:76	88830067	2:71
6999068	6:23	88820026	2:84	88830068	5:2
6999070	6:23	88820043	6:115	88830069	1:8
6999072	6:24	88830001	5:73	88830070	2:14
6999075	6:24	88830002	7:55	88830071	5:61
6999080	6:24	88830003	6:118	88830072	6:105
6999085	6:24	88830004	6:118	88830074	9:6
6999088	6:25	88830005	3:32	88830075	6:40
6999090	6:25	88830006	3:32	88830076	6:39
73862	6:92	88830007	3:32	88830077	6:38
80762446	5:78	88830008	3:32	88830078	6:37
80872138	2:26	88830009	3:33	88830079	2:70
80872179	2:25	88830010	5:76	88830080	2:71
8240-02350	6:27	88830011	5:76	88830081	6:31
87913	2:64	88830020	9:10	88830082	6:30
885530	7:47	88830021	6:78	88830083	7:7
885811	2:82	88830022	6:79	88830084	7:7
885812	2:82	88830023	6:79	88830085	7:6
88800011	7:50	88830024	6:80	88830086	5:30
88800021	6:113	88830025	6:80	88830087	5:31
88800031	2:59	88830026	2:58	88830088	5:32
88800050	9:9	88830027	2:46	88830089	5:32
88800052	9:14	88830028	2:45	88830090	5:32
88800055	7:55	88830029	2:53	88830091	7:6
88800058	9:4	88830030	2:55	88830092	2:73
88800062	6:98	88830031	2:55	88830093	9:7
88800063	6:98	88830032	3:38	88830094	9:8
88800064	6:98	88830033	3:8	88830095	4:3
88800070	3:38	88830034	2:52	88830096	6:77
88800083	8:9	88830035	7:46	88830097	6:78
88800102	5:49	88830036	7:47	88830098	5:24
88800117	9:10	88830037	2:44	88830100	9:11
88800123	9:13	88830038	2:39	88830101	9:11
88800127	6:99	88830039	9:4	88830102	9:12
88800129	5:43	88830040	5:8	88830103	6:106
88800137	6:99	88830041	3:4	88830104	6:107
88800146	9:13	88830043	4:13	88830105	3:34
88800147	6:97	88830045	6:119	88830106	3:29
88800151	6:99	88830046	1:1	88830107	7:61
88800196	5:50	88830047	6:100	88830108	7:62
88800218	5:45	88830048	9:5	88830109	3:22
88800283	5:50	88830049	4:13	88830110	8:9
88800284	2:56	88830051	4:3	88830113	3:10
88800288	5:40	88830052	2:45	88830114	3:11
88800289	5:48	88830053	5:64	88830115	2:37
88800313	7:4	88830057	4:20	88830116	2:38
88800314	7:3	88830058	5:61	88830117	2:40
88800316	7:3	88830059	6:106	88830118	2:40
88800317	7:3	88830060	1:28	88830119	2:40
88800318	7:4	88830061	6:12	88830120	3:19
88800319	7:4	88830062	1:29	88830121	3:12
88800342	5:46	88830063	11:15	88830122	7:62
88800345	9:12	88830065	2:84	88830123	2:61
88820003	2:76	88830066	2:85	88830124	5:27

0. General

88830125	5:8	88830182	2:30	88830256	1:3
88830126	3:3	88830184	11:7	88830257	11:4
88830127	5:6	88830185	11:7	88830258	11:4
88830128	5:6	88830186	11:7	88830259	11:4
88830129	7:62	88830187	2:20	88830260	1:6
88830130	11:6	88830188	2:85	88830261	11:5
88830131	7:62	88830189	6:51	88830272	6:112
88830132	5:7	88830191	7:63	88830273	3:14
88830134	2:40	88830192	3:12	88830301	7:63
88830135	2:41	88830195	2:27	88830302	7:50
88830136	2:50	88830196	7:45	88830303	7:43
88830137	6:107	88830197	7:48	88830304	7:64
88830138	1:6	88830198	6:42	88830305	7:43
88830139	2:41	88830199	6:53	88830306	7:65
88830140	4:3	88830200	2:16	88830307	7:65
88830141	4:3	88830201	4:4	88830308	7:65
88830142	4:4	88830202	4:4	88830309	3:39
88830143	7:63	88830203	4:4	88830310	6:93
88830144	11:5	88830204	3:11	88830311	6:93
88830145	5:10	88830205	2:56	88830312	6:94
88830146	11:11	88830206	3:22	88830313	4:20
88830147	11:12	88830207	7:47	88830314	7:65
88830148	11:12	88830208	7:3	88830315	7:66
88830149	11:12	88830209	5:47	88830316	8:9
88830150	9:8	88830210	5:47	88830317	7:66
88830151	5:63	88830211	5:74	88830318	3:33
88830152	5:64	88830212	5:75	88830319	7:64
88830153	5:66	88830213	2:2	88830320	7:64
88830154	5:66	88830214	9:22	88830322	2:86
88830155	5:67	88830215	1:27	88830323	7:56
88830156	5:67	88830216	1:27	88830324	7:49
88830157	5:17	88830217	6:12	88830325	7:64
88830158	5:67	88830218	4:5	88830420	6:91
88830159	5:71	88830219	4:6	88830421	7:43
88830160	5:6	88830220	4:6	88830422	5:40
88830162	3:11	88830221	4:6	88830423	7:37
88830163	4:12	88830222	4:5	88830424	7:37
88830164	2:65	88830223	4:5	88830425	7:37
88830165	1:2	88830224	4:5	88830426	7:37
88830166	3:9	88830225	4:20	88830427	7:38
88830167	3:35	88830226	4:6	88830428	7:38
88830168	11:6	88830229	6:117	88830429	7:38
88830170	2:44	88830232	11:18	88830430	7:38
88830171	2:45	88830233	11:18	88830431	7:39
88830172	5:31	88830234	11:18	88830432	7:39
88830173	5:31	88830235	11:19	88830433	7:39
88830174	5:29	88830238	11:2	88830434	7:39
88830175	5:1	88830240	11:2	88830435	7:40
88830176	6:41	88830250	1:2	88830436	7:40
88830177	6:41	88830251	1:4	88830437	7:40
88830178	6:41	88830252	1:3	88830438	5:20
88830179	3:39	88830253	11:3	88830439	6:76
88830180	9:21	88830254	11:3	88830440	6:61
88830181	3:24	88830255	11:3	88830441	5:14

0. General

88830442	6:61	88890176	1:4	8931-00080	6:79
88830443	6:61	88890180	10:1	8932-00040	5:56
88830444	6:62	89130	3:31	8932-00050	7:35
88830445	6:62	89131	3:31	8932-00110	6:66
88830446	6:62	8920-00130	7:52	8932-00120	9:15
88830447	6:62	8920-00260	7:22	8932-00140	6:69
88830448	6:63	8920-00270	7:22	8932-00160	6:69
88830449	6:63	8920-00280	6:55	8932-00210	4:15
88830450	6:63	8920-00290	6:55	8932-00220	7:35
88830451	6:63	8920-00300	6:55	8932-00230	7:35
88830452	6:64	8920-00310	6:56	8932-00240	7:36
88830453	6:64	8920-00470	3:21	8932-00250	4:15
88830454	6:64	8920-00480	7:34	8932-00260	5:62
88830455	6:64	8920-00490	7:34	8932-00290	2:67
88830456	6:65	8920-00510	7:35	8932-00310	5:56
88830458	7:40	8920-00550	7:26	8932-00320	6:66
88830459	6:65	8920-00570	6:65	8932-00340	6:60
88880003	4:7	8920-00600	6:71	8932-00350	6:61
88880010	11:16	8920-00650	7:33	8932-00360	7:21
88880016	2:22	8920-00660	7:33	8932-00370	6:68
88880017	11:1	8920-00720	6:56	8932-00380	5:63
88880018	11:1	8920-00730	6:57	8932-00390	5:56
88880024	10:2	8920-00740	6:70	8932-00400	7:36
88880048	11:15	8920-00750	6:70	8932-00480	7:26
88880049	11:16	8920-00760	6:70	8932-00580	5:57
88880050	11:16	8920-00770	6:66	8932-00600	6:67
88880051	11:17	8920-00780	6:57	8932-00610	5:63
88880054	11:16	8920-00850	6:72	8932-00710	6:71
88880057	5:48	8920-01010	2:48	8932-00720	9:17
88880070	10:2	8920-01080	6:72	8933-00040	6:67
88890001	8:2	8920-01110	7:22	8933-00190	2:69
88890016	2:38	8920-01250	6:58	8933-00260	5:57
88890019	2:38	8920-01260	6:58	8933-00280	3:24
88890024	2:41	8920-01310	6:72	8933-00290	6:68
88890025	2:46	8920-01340	7:23	8933-00310	5:57
88890027	10:3	8920-01350	7:23	8933-00330	2:68
88890028	8:2	8920-01390	7:34	8933-00350	5:54
88890029	8:2	8920-01400	6:85	8933-00420	6:68
88890034	10:3	8920-01410	7:26	8933-00430	7:36
88890036	8:2	8920-01420	6:59	8933-00910	6:86
88890037	8:1	8920-01430	6:59	8933-00920	6:86
88890038	8:2	8920-01450	6:59	8933-00930	7:36
88890040	10:3	8920-01460	6:60	8934-00160	3:26
88890051	1:29	8920-01480	6:73	8934-00200	6:70
88890056	8:2	8920-01490	6:74	8934-00240	6:70
88890074	2:23	8920-01500	6:74	8934-00270	6:70
88890075	2:22	8920-01510	6:74	8934-00290	6:71
88890080	2:7	8920-01520	6:60	8934-00300	3:22
88890091	2:24	8920-01680	7:24	8940-00210	2:48
88890098	8:3	8920-01690	7:25	8940-00400	3:26
88890104	1:7	8920-01805	2:48	89405	7:9
88890105	2:21	8920-01806	2:49	935100	1:9
88890113	1:24	8920-01808	2:49	935486	1:12
88890119	2:41	8931-00060	5:53	935489	1:11

0. General

935574	1:9	9812330	10:4	9990106	1:22
935575	1:10	9812331	10:5	9990107	1:22
935576	1:10	9812446	11:1	9990113	6:113
935644	1:12	9812447	11:2	9990114	5:36
935650	1:11	9812452	1:5	9990117	6:113
935651	1:11	9812453	11:1	9990130	2:31
935652	1:12	9812475	8:4	9990133	2:32
935653	1:13	9812477	11:17	9990144	5:45
935654	1:13	9812478	11:17	9990155	2:46
935756	1:9	9812479	11:18	9990156	5:26
936439	2:9	9812480	8:4	9990157	5:42
936440	2:9	9812481	8:4	9990159	11:13
936441	2:10	9812482	8:4	9990164	1:23
936442	2:7	9812483	8:4	9990166	6:114
936443	2:8	9812484	11:19	9990176	5:52
936444	2:8	9812514	1:4	9990185	4:7
936445	2:10	9812517	1:5	9990191	2:35
936446	2:10	9812521	1:29	9990192	5:26
937695	2:8	9812524	1:24	9990210	5:52
9511207	1:5	9812530	2:24	9990216	2:36
9511355	2:30	9812546	1:26	9990262	5:26
9512602	0:13	9813194	2:30	9991083	6:94
9512652	8:6	9986173	5:46	9991084	6:94
9512762	0:13	9986485	9:1	9991459	6:94
9512772	8:6	9988539	2:55	9991685	1:18
9512773	8:6	9988572	0:13	9991801	6:25
9808038	2:58	9988573	0:13	9992000	6:25
9808570	11:13	9988574	0:14	9992002	5:34
9808614	11:14	9988580	0:14	9992089	5:43
9808617	11:14	9988586	0:14	9992124	1:19
9808618	11:14	9988587	0:14	9992178	5:43
9808634	11:14	9988588	0:14	9992267	6:100
9808642	8:6	9988590	0:15	9992479	9:13
9808644	8:3	9988591	0:15	9992514	5:37
9808645	8:3	9988593	0:15	9992634	3:1
9808646	8:3	9989322	0:15	9992637	6:104
9808647	11:17	9989335	0:15	9992654	5:35
9808649	8:3	9989338	0:16	9992655	5:37
9808650	8:3	9989353	0:16	9992657	6:101
9809668	5:39	9989355	0:16	9992658	5:35
9809685	2:42	9989356	0:16	9992659	5:38
9809727	11:9	9989357	0:17	9992663	1:23
9809730	11:9	9989358	0:17	9992666	5:41
9809740	5:39	9989397	0:17	9992667	5:41
9809747	5:4	9989398	0:17	9992677	6:101
9809750	5:48	9989399	0:17	9992679	5:35
9809753	3:40	9990006	5:36	9992682	1:19
9809765	11:15	9990008	2:25	9992953	6:95
9809766	11:15	9990014	2:33	9992955	5:43
9809767	11:15	9990020	2:31	9993197	2:59
9809768	11:15	9990025	2:32	9993205	3:33
9809771	1:25	9990062	2:29	9993350	6:105
9809772	1:25	9990104	5:44	9993354	3:23
9809774	8:4	9990105	1:22	9993514	7:1

0. General

9993522	2:12	9993717	5:13	9993811	5:59
9993553	5:62	9993718	6:15	9993812	9:3
9993562	5:62	9993720	2:11	9993813	9:3
9993577	3:34	9993721	2:20	9993814	2:66
9993579	8:7	9993722	5:14	9993815	7:42
9993581	3:5	9993723	2:17	9993816	1:8
9993582	3:7	9993724	3:31	9993817	7:51
9993583	3:6	9993725	5:12	9993819	2:63
9993584	3:4	9993726	2:17	9993820	2:63
9993585	3:6	9993732	3:23	9993824	1:28
9993586	3:1	9993733	5:17	9993825	2:16
9993587	3:1	9993734	7:43	9993826	2:14
9993590	3:3	9993736	5:58	9993827	2:15
9993599	5:60	9993737	5:59	9993831	1:1
9993616	4:14	9993738	7:42	9993832	10:4
9993617	2:61	9993739	5:17	9993833	9:18
9993618	7:41	9993741	3:34	9993834	9:18
9993619	2:61	9993742	3:34	9993835	9:19
9993621	4:10	9993743	3:35	9993838	7:44
9993622	4:10	9993744	5:59	9993840	7:44
9993623	6:105	9993746	5:22	9993843	5:60
9993625	7:46	9993749	2:15	9993844	2:54
9993642	2:17	9993750	5:22	9993846	5:61
9993643	2:17	9993751	6:107	9993847	3:2
9993647	5:16	9993755	2:62	9993849	3:23
9993650	5:16	9993756	9:14	9993850	5:60
9993651	5:16	9993757	5:28	9993854	2:81
9993652	5:16	9993758	11:8	9993855	3:13
9993655	6:100	9993761	2:11	9993856	7:44
9993659	5:37	9993762	8:7	9993857	5:21
9993665	3:4	9993765	9:15	9993858	7:45
9993666	3:2	9993766	9:15	9993859	5:21
9993668	5:58	9993767	3:2	9993867	3:6
9993670	5:58	9993768	3:7	9993869	5:57
9993671	5:58	9993769	5:28	9993870	3:3
9993672	7:41	9993770	5:7	9993871	2:11
9993673	9:14	9993771	5:7	9993872	5:22
9993677	1:18	9993774	5:28	9993874	2:64
9993678	6:26	9993781	9:4	9993875	2:65
9993680	2:19	9993782	9:4	9993876	2:65
9993681	4:10	9993785	3:2	9993877	5:18
9993682	4:11	9993786	3:7	9993878	5:18
9993683	2:62	9993789	2:64	9993880	8:5
9993684	7:45	9993790	2:64	9993881	3:5
9993686	5:15	9993791	5:13	9993882	3:5
9993694	5:21	9993796	5:23	9993884	2:42
9993697	2:62	9993798	2:62	9993885	2:39
9993701	5:61	9993799	3:7	9993886	10:4
9993704	2:14	9993803	1:7	9993887	7:42
9993707	6:26	9993805	6:101	9993888	5:19
9993712	7:41	9993806	7:46	9993891	2:34
9993713	5:13	9993807	4:14	9993892	2:26
9993714	5:12	9993808	2:15	9993893	2:37
9993715	5:20	9993810	2:63	9993895	2:34

0. General

9993896	2:42	9996963	5:44	9998619	6:103
9993897	2:43	9996966	5:42	9998624	7:52
9993898	2:43	9998002	3:35	9998628	7:53
9993899	2:43	9998006	7:2	9998645	2:26
9993900	2:44	9998007	5:25	9998648	9:10
9993901	2:16	9998009	2:57	9998665	2:57
9993902	8:10	9998012	6:103	9998666	1:21
9993903	8:10	9998039	6:101	9998668	1:21
9993904	9:21	9998043	5:42	9998674	5:25
9996033	1:20	9998114	1:20	9998675	5:45
9996087	5:44	9998115	1:21	9998678	2:77
9996159	6:96	9998134	5:47	9998679	2:82
9996169	6:95	9998140	5:38	9998681	7:48
9996239	4:11	9998143	1:23	9998682	9:19
9996296	5:29	9998169	9:5	9998684	7:54
9996306	3:23	9998171	6:96	9998685	2:77
9996369	3:35	9998194	6:26	9998692	6:104
9996400	5:24	9998195	6:26	9998694	2:57
9996402	5:51	9998196	6:27	9998695	5:53
9996418	5:38	9998238	6:112	9998696	5:54
9996419	5:38	9998246	5:52	9998699	2:28
9996420	5:51	9998248	2:56	9999175	8:7
9996421	5:51	9998249	1:27	9999179	3:37
9996647	5:51	9998250	1:27	9999298	11:10
9996651	1:26	9998251	1:28	9999693	11:12
9996657	5:38	9998252	5:47	9999738	9:9
9996662	2:54	9998253	5:39	9999811	0:18
9996664	7:1	9998254	5:49	9999812	0:18
9996668	6:95	9998257	4:8	9999813	0:18
9996669	6:95	9998261	6:96	9999814	0:18
9996671	3:36	9998262	6:97	9999817	0:18
9996672	3:36	9998264	4:7	9999818	0:19
9996682	3:12	9998266	1:21	9999819	0:19
9996683	1:19	9998267	7:50	9999820	0:19
9996684	1:23	9998288	1:24	9999821	0:21
9996685	1:20	9998318	7:54	9999822	0:21
9996785	3:35	9998359	2:46	9999824	0:19
9996795	6:102	9998361	6:102	9999826	0:19
9996838	5:23	9998389	7:53	9999827	0:20
9996839	7:2	9998505	2:33	9999833	0:20
9996840	7:2	9998517	2:59	9999834	0:20
9996845	1:20	9998519	2:21	9999835	0:20
9996847	5:41	9998532	5:40	9999836	0:21
9996848	2:61	9998533	2:31	9999838	0:22
9996849	6:101	9998534	2:34	9999839	0:22
9996850	1:26	9998547	4:2	9999846	0:21
9996852	1:19	9998563	2:36	9999853	9:9
9996854	5:44	9998567	2:35	9999954	4:16
9996855	6:102	9998576	2:36	VCADS Pro	10:1
9996860	5:36	9998580	11:13		
9996861	5:37	9998583	2:76		
9996864	3:37	9998599	1:25		
9996867	5:51	9998601	7:52		
9996878	9:8	9998602	7:53		

0. General

	Part No:	9512602
	Remark	105mm

	Part No:	9512762
	Remark	D=18mm

	Part No:	9988572
	Remark	30mm x 45mm

	Part No:	9988573
	Remark	D=63mm

0. General

	Part No: Remark	9988574 D=78mm
	Part No: Remark	9988580 D=70mm
	Part No: Remark	9988586 50mm x 4,5mm
	Part No: Remark	9988587 75mm x 6mm
	Part No: Remark	9988588 125mm x 8mm

0. General

	Part No: Remark	9988590 30mm x 30mm
	Part No: Remark	9988591 45mm x 45mm
	Part No: Remark	9988593 60mm x 60mm
	Part No: Remark	9989322 140mm x 6mm
	Part No: Remark	9989335 75mm x 18mm

0. General

	Part No: Remark	9989338 75x4,5mm x 15mm
	Part No: Remark	9989353 D=15mm
	Part No: Remark	9989355 D=25mm
	Part No: Remark	9989356 D=28mm

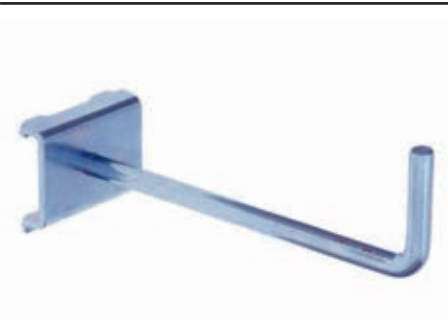
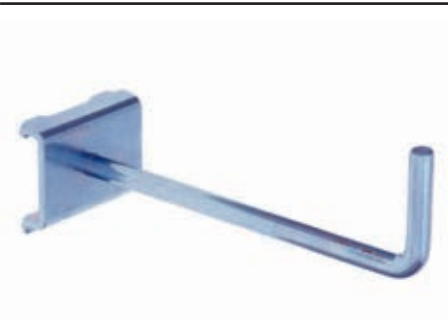
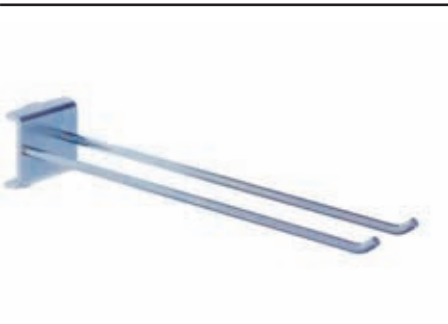
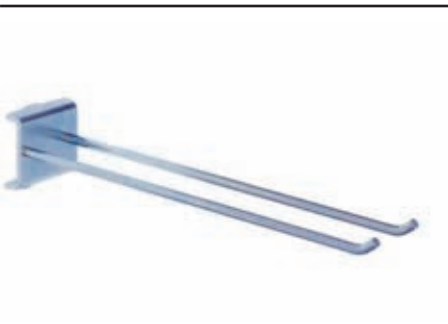
0. General

	Part No: Remark	9989357 D=31mm
	Part No: Remark	9989358 D=37mm
	Part No: Remark	9989397 D=50mm
	Part No: Remark	9989398 D=60mm
	Part No: Remark	9989399 D=95mm

0. General

	Part No: Remark	9999811 25mm x 3,5mm
	Part No: Remark	9999812 50mm x 3,5mm
	Part No: Remark	9999813 75mm x 3,5mm
	Part No: Remark	9999814 100mm x 6mm
	Part No: Remark	9999817 15mm x 4,5mm

0. General

	Part No: Remark	9999818 30mm x 6mm
	Part No: Remark	9999819 50mm x 6mm
	Part No: Remark	9999820 65mm x 6mm
	Part No: Remark	9999824 35x4,5mm x 10mm
	Part No: Remark	9999826 35x4,5mm x 25mm

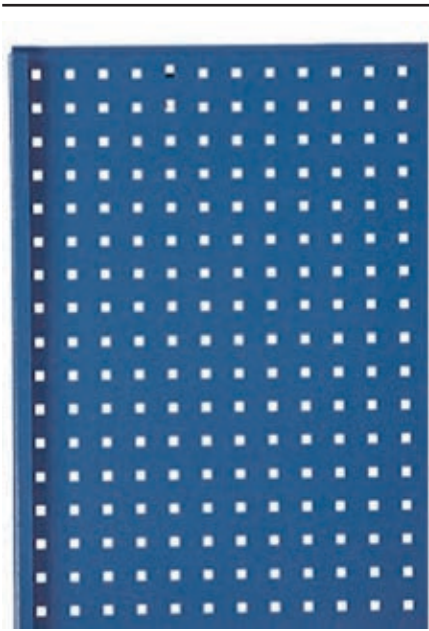
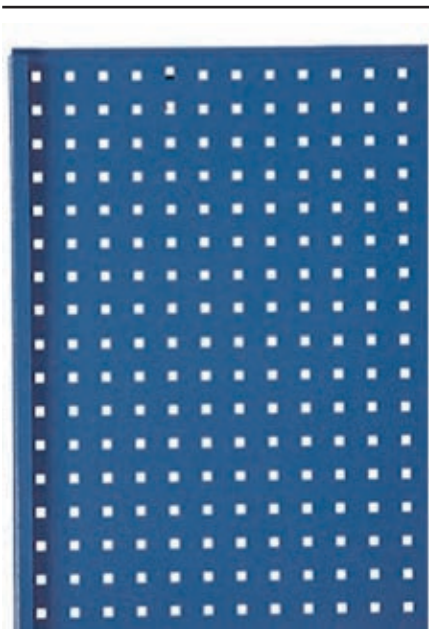
0. General

	Part No: Remark	9999827 75x4,5mm x 25mm
	Part No: Remark	9999833 15mm x 75mm
	Part No: Remark	9999834 23mm x 75mm
	Part No: Remark	9999835 32mm x 75mm

0. General

	Part No: Remark	9999836 40mm x 75mm
	Part No: Remark	9999846 50mm x 6mm
	Part No: Remark	9999821 40mm
	Part No: Remark	9999822 100mm

0. General

	<table><tr><td>Part No:</td><td>9999838</td></tr><tr><td>Remark</td><td>925mm x 903mm</td></tr></table>	Part No:	9999838	Remark	925mm x 903mm
Part No:	9999838				
Remark	925mm x 903mm				
	<table><tr><td>Part No:</td><td>9999839</td></tr><tr><td>Remark</td><td>1930mm x 903mm</td></tr></table>	Part No:	9999839	Remark	1930mm x 903mm
Part No:	9999839				
Remark	1930mm x 903mm				

0. General

1. Enviroment and Safety equipment



Part No:	11668013
Designation	Dump body support
Class	BAS
Used when	For securing dump body

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A30C, A30D, A30E, A35C, A35D, A40, A40D



Part No:	88830046
Designation	Dump body support
Class	BAS
Hook no	-----
Used when	For securing load body
Remark	The support also fits A25D, A25D 4x4, and A30D

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)

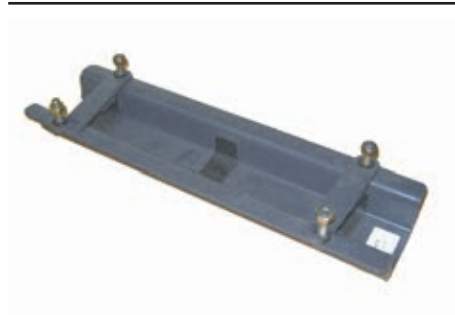


Part No:	9993831
Designation	Support
Class	BAS
Used when	Support, lifting frame
Remark	L330X = 2

1. Enviroment and Safety equipment

Machines/Components

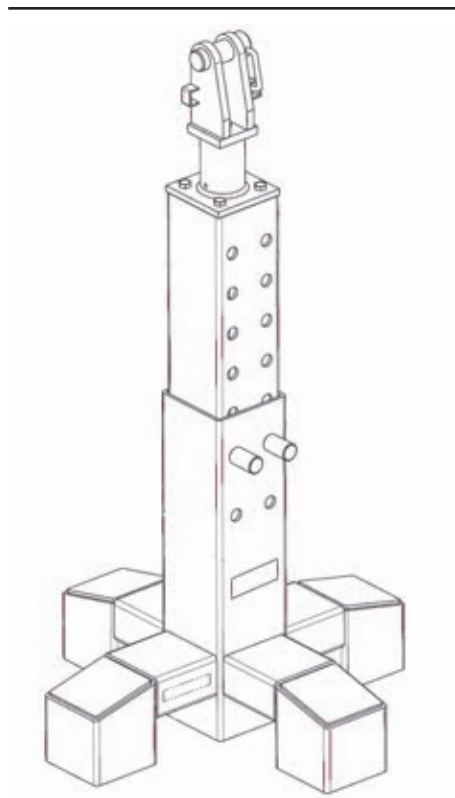
A25C, AWB40B, AWB40C, BL60B, BL61B, BL70B, BL71B, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L20F, L220D, L220E, L220F, L220G, L25B, L25F, L330D, L330E, L350F, L45F, L45G, L50D, L50E, L50F, L50G, L60E, L60F, L70D, L70E, L70F, L90D, L90D OR, L90E, L90F



Part No:	2814216
Designation	Support
Class	BAS
Hook no	-----
Used when	Support boom, installed on lift cylinders

Machines/Components

L20B, L20F, L25B, L25F, L30, L30B, L32, L32B, L35, L35B, L40, L40B, L45B, L45F, L45G, L50F, L50G



Part No:	88830165
Designation	Support
Class	EXT
Used when	Used to secure machine when lifted up.
Remark	Max capacity 15 ton

Machines/Components

A25F (37214), A30F (37432)



Part No:	88830250
Designation	Refrigerant unit
Class	EXT
Used when	Charging and recovering refrigerant
Remark	Note: Tub not included. Replace 9812512

1. Enviroment and Safety equipment

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, R134A



Part No:	88830256
Designation	Draining tool
Class	EXT
Used when	Emptying station for refrigerant unit

Machines/Components

R134A



Part No:	88830252
Designation	Scale
Class	EXT
Used when	Weighing refrigerant
Remark	Used together with 88830250, replacec 9812513

Machines/Components

5350, 5350B, 5350B 4x4, 5350B 6x4, 860, 861, A20, A20 6x4, A20C, A25, A25 4x4, A25 6x4, A25B, A25B 4x4, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A28, A30, A30C, A30D, A30E, A30F (37432), A35, A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), Deleted, EC250D L, EC300D L, EC340D L, EL70, EL70C, EW140D, EW160D, EW180D, EW210D, L110 Final (internal use only), L110E, L110F, L120, L120B, L120C, L120D, L120E, L120F, L150, L150 Final (internal use only), L150C, L150C LB, L150D, L150E, L150F, L150G, L160, L160 CO, L160C, L180, L180 CO, L180 HL, L180C, L180C CO, L180C HL, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L190, L190B, L220D, L220E, L220F, L220G, L270, L270B, L270C, L275C, L320, L330C, L330C LL, L330D, L330E, L350F, L50, L50B, L50C, L50C OR, L50D, L50E, L60 Final (internal use only), L60E, L60E OR, L60F, L70, L70B, L70C, L70D, L70D OR, L70E, L70E OR, L70F, L90, L90 CO, L90B, L90C, L90C OR, L90D, L90D OR, L90E, L90E OR, L90F, L99, R134A, T450D, Tractor unit (37215)

1. Enviroment and Safety equipment



Part No:	9812514
Designation	Adapter
Class	EXT
Hook no	-----
Used when	Used together with scales 9812513

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, R134A



Part No:	88830251
Designation	Vacuum pump
Class	EXT
Used when	Vacuum-pumping AC system
Remark	Replacec 981445

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EC140D L, EC300D L, EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, MC60B, MC70B, MC80B, MC90B, R134A



Part No:	88890176
Designation	Vacuum bleeder
Class	EXT
Used when	XXXXXXXXX

Machines/Components

P4370B

1. Enviroment and Safety equipment



Part No:	9812452
Designation	Hose
Class	EXT
Hook no	-----
Used when	Vacuum-pumping of AC-unit

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, R134A



Part No:	9511207
Designation	Leak detector AC
Class	EXT
Hook no	-----
Used when	Leak-detection of AC system

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, R134A



Part No:	9812517
Designation	Leak detector AC
Class	EXT
Hook no	-----
Used when	Leak-detection of AC system

Machines/Components

G930, G940, G946, G960, G970, G976, G990, R134A

1. Enviroment and Safety equipment



Part No:	88830260
Designation	Adapter
Class	EXT
Used when	Filling AC- oil
Remark	Use together with adapter 88830261. Use for work with AC-unit 88830250

Machines/Components

R134A



Part No:	88830138
Designation	Plug
Class	BAS
Used when	Used on gas cartridge due to safety reasons, when working on fire suppression system

Machines/Components

L150F, L150G, L180F, L180F HL, L180G, L220F, L220G



Part No:	14360000
Designation	Vacuum pump / 24V
Class	BAS
Used when	Minimise leakage when working on hydraulic system
Remark	Boot:14238622 Adapter:14360045 Adapter M33:14199327 Adapter 3/4": 14360112 Connection plate:9993803

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), ABG5820, ABG6820, ABG7820, ABG7820B, ABG8820, ABG8820B, BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC130, EC130C, EC140B LC, EC140B LCM, EC140C, EC140C L,

1. Enviroment and Safety equipment

EC140C LM, EC140D L, EC140D LM, EC150, EC150 LC, EC150C, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC230, EC230B, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC390, EC420, EC450, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC620, EC650, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR88, EW130, EW130C, EW140B, EW140C, EW140D, EW145B, EW150, EW150C, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW200, EW200B, EW210C, EW210D, EW230, EW230B, EW60C, FC2121C, FC2421C, FC3329C, G930B, G940B, G946B, G960B, L110E, L110F, L120C, L120D, L120E, L120F, L150C, L150C LB, L150D, L150E, L150F, L150G, L180C, L180C CO, L180C HL, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L20F, L220D, L220E, L220F, L220G, L25B, L25F, L330C, L330C LL, L330D, L330E, L350F, L45F, L45G, L50C, L50C OR, L50E, L50F, L50G, L60E, L60F, L70C, L70E, L70F, L90C, L90C OR, L90D, L90D OR, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, MT2000, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, T450D



Part No:	88890104
Designation	Vacuum pump
Class	ENG
Used when	Set pressure/vacuum to waste gate and cooling system

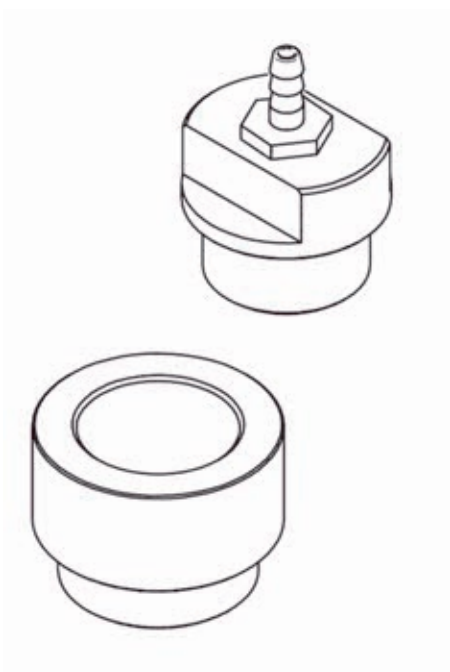
Machines/Components
L150G, L180G, L220G



Part No:	9993803
Designation	Adapter plate
Class	R
Used when	Vacuum-generation for hydraulic tank on EXC
Remark	Included in 14360000 from and incl. 2001-12-12

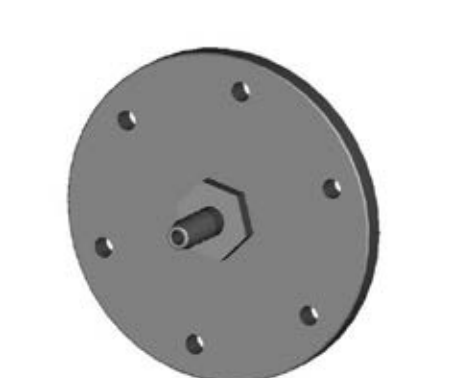
Machines/Components
A25C, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D

1. Enviroment and Safety equipment

	Part No:	9993816
	Designation	Adapter
	Class	BAS
	Hook no	9988573
	Used when	Used for generating vacuum in hydraulic tank together with vacuum pump 14360000
	Remark	Replaces 9993804

Machines/Components

BL60, BL61, BL70, BL71

	Part No:	88830069
	Designation	Adapter plate
	Class	EXT
	Hook no	9988586
	Used when	Setting vacuum of hydraulic tank
	Remark	Used together with 14360000

Machines/Components

BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B

1. Enviroment and Safety equipment



Part No:	935756
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems
Remark	Thread: 9/16-18, wrench size 17 mm

Machines/Components
L150G, L180G, L220G



Part No:	935100
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems
Remark	Thread: 11/16-16, wrench size 21 mm

Machines/Components
EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, L150G, L180G, L220G



Part No:	935574
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 13/16-16, wrench size 24 mm

Machines/Components
L150G, L180G, L220G

1. Enviroment and Safety equipment



Part No: 935575
Designation Plug, ORFS
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1/14, wrench size 30 mm



Part No: 935576
Designation Plug, ORFS
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 3/16-12, wrench size 36 mm

Machines/Components
L150G, L180G, L220G



Part No: 13933852
Designation Plug, ORFS
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 7/16-12, wrench size 41 mm

1. Enviroment and Safety equipment



Part No:	935489
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 1 11/16-12, wrench size 50 mm



Part No:	935650
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems
Remark	Thread: 9/16-18, wrench size 16 mm

Machines/Components
L150G, L180G, L220G



Part No:	935651
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 11/16-16, wrench size 19 mm

Machines/Components
EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, L150G, L180G, L220G

1. Enviroment and Safety equipment



Part No:	935486
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 13/16-16, wrench size 22 mm

Machines/Components
L150G, L180G, L220G



Part No:	935644
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 1-14, wrench size 27 mm



Part No:	935652
Designation	Plug, ORFS
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 1 3/16-12, wrench size 32 mm

Machines/Components
L150G, L180G, L220G

1. Enviroment and Safety equipment



Part No: 935653
Designation Plug, ORFS
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 7/16-12, wrench size 38 mm



Part No: 935654
Designation Plug, ORFS
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 11/16-12, wrench size 46 mm



Part No: 4836132
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 7/16-20, wrench size 14 mm

1. Enviroment and Safety equipment



Part No: 4881762
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1/2-20, wrench size 17 mm



Part No: 4940506
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 9/16-18, wrench size 19 mm



Part No: 4821971
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 3/4-16, wrench size 22 mm

1. Enviroment and Safety equipment



Part No: 4821972
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 7/8-14, wrench size 27 mm



Part No: 4821970
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 1/16-12, wrench size 32 mm



Part No: 11061273
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 5/16-12, wrench size 41 mm

1. Enviroment and Safety equipment



Part No: 11711946
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 7/16-20, wrench size 13 mm



Part No: 4881518
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1/2-20, wrench size 14 mm



Part No: 11165029
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 9/16-18, wrench size 17 mm

1. Enviroment and Safety equipment



Part No: 11711947
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 3/4-16, wrench size 19 mm



Part No: 11711948
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 7/8-14, wrench size 24 mm

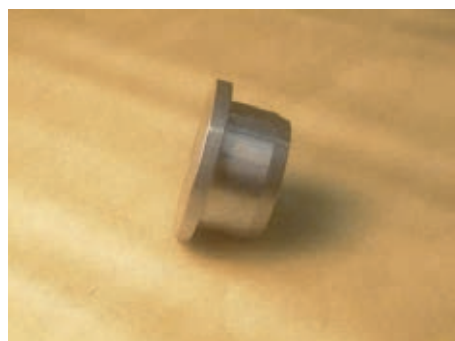


Part No: 4881519
Designation Plug, JIC
Class R
Used when Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark Thread: 1 1/16-12, wrench size 27 mm

1. Enviroment and Safety equipment



Part No:	11711949
Designation	Plug, JIC
Class	R
Used when	Used to minimize leaks and to protect from dirt when working on, e.g., hydraulic systems.
Remark	Thread: 1 5/16-12, wrench size 36 mm



Part No:	14360113
Designation	Plug
Class	BAS
Used when	Plugging suction hose
Remark	D = 80

Machines/Components

EC160, EC160 W, EW140, EW160



Part No:	9993677
Designation	Stopper, Shutter
Class	EXT
Hook no	9989353
Used when	Hydraulic tank outlet, shutting off



Part No:	9991685
Designation	Sealing plug
Class	ENG
Hook no	9989353
Used when	Cylinder head, pressure testing

Machines/Components

TD45, TD61, TD71

1. Enviroment and Safety equipment



Part No:	9992124
Designation	Sealing plug
Class	ENG
Hook no	9512762
Used when	Cylinder head, pressure testing

Machines/Components

D10B, TD102, TD103, TD122, TD45, TD61, TD71



Part No:	9992682
Designation	Sealing plug
Class	ENG
Hook no	9989353
Used when	Cylinder head, pressure testing

Machines/Components

D5E, D7E, TD45



Part No:	9996683
Designation	Nipple connection
Class	ENG
Hook no	9999811
Used when	Cylinder head, pressure testing

Machines/Components

TD122



Part No:	9996852
Designation	Connection
Class	ENG
Hook no	9988586
Used when	Cylinder head, pressure testing

Machines/Components

A25C, TD61, TD63, TD71, TD73

1. Enviroment and Safety equipment



Part No:	9996033
Designation	Clamp
Class	ENG
Hook no	9988593
Used when	Oil cooler, pressure testing

Machines/Components

D10B, TD103, TD63



Part No:	9996685
Designation	Clamp
Class	ENG
Hook no	9988593
Used when	Cylinder head, pressure testing

Machines/Components

D10B, D5D, D5E, D7E, TD103



Part No:	9996845
Designation	Clamp
Class	ENG
Hook no	9988593
Used when	Oil cooler, pressure testing

Machines/Components

D12C, D12D, D4D, D6D, D9A, TD63, TD73



Part No:	9998114
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Cylinder head, pressure testing

Machines/Components

TD61, TD63

1. Enviroment and Safety equipment



Part No:	9998115
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Cylinder head, pressure testing

Machines/Components

TD71, TD73



Part No:	9998266
Designation	Sealing plate
Class	ENG
Hook no	9988586
Used when	Cylinder head, pressure testing

Machines/Components

D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870)



Part No:	9998666
Designation	Connection plate
Class	ENG
Used when	Leak check

Machines/Components

D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D9A, D9B



Part No:	9998668
Designation	Connection plate
Class	ENG
Used when	Leak check

Machines/Components

D12C, D12D

1. Enviroment and Safety equipment



Part No:	9990105
Designation	Sealing plate
Class	ENG
Used when	Cylinder head, pressure testing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D9A, D9B



Part No:	9990106
Designation	Sealing plate
Class	ENG
Used when	Cylinder head, pressure testing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D9A, D9B

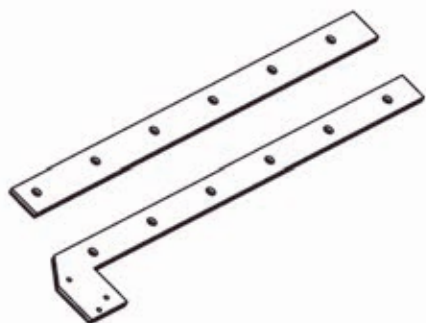


Part No:	9990107
Designation	Connection plate
Class	ENG
Used when	Cylinder head, pressure testing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B

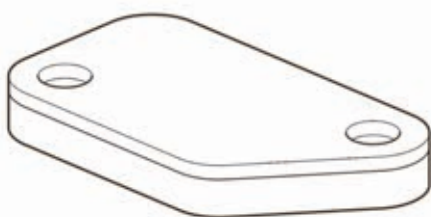
1. Enviroment and Safety equipment



Part No:	9990164
Designation	Sealing plate
Class	ENG
Hook no	9988586
Used when	Cylinder head, pressure testing

Machines/Components

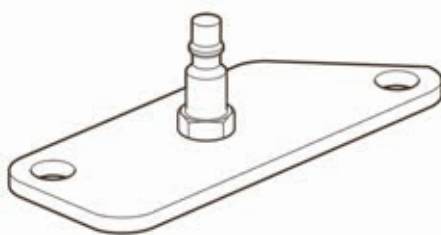
D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	9992663
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Leakage check

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	9996684
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Leakage check

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877)



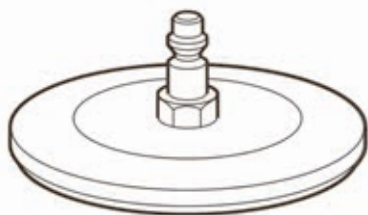
Part No:	9998143
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Leakage check

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16H (15050683),

1. Enviroment and Safety equipment

D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	9998288
Designation	Sealing plate
Class	ENG
Hook no	9999846
Used when	Leakage check

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16H (15050683), D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	9812524
Designation	Milling tool
Class	ENG
Hook no	-----
Used when	Cylinder liner location, milling 220 V
Remark	Replaces 9998272, 9999508, 9999551, 9999553, 9999902

Machines/Components

D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), D6E, D6H, D7E, D8H, TD102, TD103, TD122, TD61, TD71, TD73



Part No:	88890113
Designation	Milling tool
Class	ENG
Used when	Cylinder liner position, milling (same tool as 9812524 but for 110 V)
Remark	110 V voltage

Machines/Components

D6E, D7E

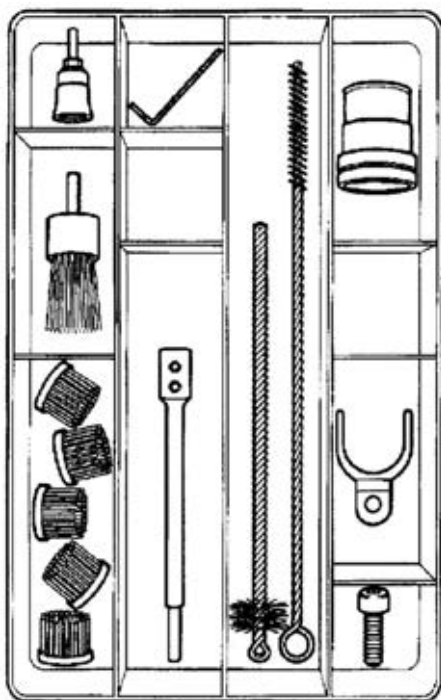
1. Enviroment and Safety equipment



Part No:	9809771
Designation	Extension bar
Class	ENG
Hook no	-----
Used when	Accessories when milling cylinder liner location using 9812524 and the timing casing back plate installed



Part No:	9809772
Designation	Spacer ring
Class	ENG
Hook no	-----
Used when	Accessories when milling cylinder liner location using 9812524 and cylinder liner installed in the cylinder next to the one that is to be milled



Part No:	9998599
Designation	Cleaning tool
Class	EXT
Hook no	9988590
Used when	Copper sleeve location, cleaning

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439),

1. Enviroment and Safety equipment

D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D



Part No:	9812546
Designation	End brush
Class	EXT
Hook no	9999834
Used when	Copper sleeves, cleaning

Machines/Components

A25D, A25D 4x4, A30D, D10B, G710B, G720B, G726B, G730B, G740B, G746B, G780B, TD103



Part No:	9996651
Designation	Cleaning tool
Class	EXT
Hook no	9988590
Used when	Copper sleeve location, cleaning

Machines/Components

TD61, TD71



Part No:	9996850
Designation	Reamer
Class	ENG
Hook no	9999834
Used when	Bushing, streaming

Machines/Components

D10B, TD103, TD122, TD63, TD73



Part No:	14345342
Designation	Control screw
Class	EXT
Used when	Mechanical actuation of hose rupture valve

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B

1. Enviroment and Safety equipment



Part No:	88830215
Designation	Thread tool
Class	EXT
Used when	Insertion tool for new thread
Remark	M12

Machines/Components

PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	88830216
Designation	Thread tool
Class	EXT
Used when	Removal tool for in insert thread
Remark	M12

Machines/Components

PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	9998249
Designation	Protecting sleeve
Class	ENG
Hook no	9988587
Used when	Unit injector

Machines/Components

D12C, D12D, D16E, D9A, D9B, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L180E, L180F, L180F HL, L220E, L220F, L350F, PL4608, PL4611



Part No:	9998250
Designation	Ring
Class	EXT
Hook no	9989322
Used when	When cleaning location for copper sleeve

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D, T450D

1. Enviroment and Safety equipment



Part No:	9998251
Designation	Sealing plug
Class	ENG
Hook no	9989355
Used when	Cylinder head, pressure testing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D



Part No:	9993824
Designation	Screw
Class	BAS
Hook no	9512762
Used when	Removing security seal on injection pump drive

Machines/Components

L120D, L220D, L330D, L330E, L90D, L90D OR, TD103, TD122, TD164



Part No:	88830060
Designation	Disassembly tool
Class	EXT
Used when	Kit with tools for removing bonded window panes

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, EW60C, FC2121C, FC2421C, FC2924C, FC3329C, L110F, L120F, L150F, L180F, L180F HL,

1. Enviroment and Safety equipment

L20B, L20F, L220F, L25B, L25F, L30B, L350F, L35B, L40B, L45B, L45F, L45G, L50F, L50G, L60F, L70F, L90F, PL4608, PL4611



Part No:	88830062
Designation	Wire unvinding device
Class	EXT
Used when	Wire winder, used when measuring correct length of wire as well as for storing wire.
Remark	Used together with 88830060

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, EW60C, FC2121C, FC2421C, FC2924C, FC3329C, L110F, L120F, L150F, L180F, L180F HL, L20B, L20F, L220F, L25B, L25F, L30B, L350F, L35B, L40B, L45B, L45F, L45G, L50F, L50G, L60F, L70F, L90F, PL4608, PL4611



Part No:	9812521
Designation	Two cup suction lifter
Class	EXT
Used when	Vacuum suction, used to lift and handle window panes

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, EW60C, FC2121C, FC2421C, FC2924C, FC3329C, L110F, L120F, L150F, L180F, L180F HL, L220F, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, PL4608, PL4611



Part No:	88890051
Designation	Dispensing gun
Class	EXT
Used when	Battery-powered adhesive gun, used to apply adhesive when installing window panes.

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L,

1. Enviroment and Safety equipment

EW60C, FC2121C, FC2421C, FC2924C, FC3329C, L110F, L120F, L150F, L180F, L180F HL,
L220F, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, PL4608, PL4611

2. Measuring equipment



Part No:	11666051
Designation	Pressure gauge
Class	BAS
Hook no	-----
Used when	Hydraulic pressures, measuring
Remark	0–70 MPa, 0–700 bar (0–10153 psi)

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), BL60B, BL61B, BL70B, BL71B, DD112HF, DD118HA, DD118HF, DD118HFA, EC140B LC, EC140B LCM, EC15C, EC160B LC, EC160B NLC, EC160D L, EC17C, EC180B LC, EC180D L, EC18C, EC200B, EC20C, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC220D L, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC27C, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC35C, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR48C, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW55B, EW60C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330D, L330E, L350F, L45F, L45G, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, MT2000, PL4608, PL4611, SD115, SD116DX, SD116F, SD135, SD45D, SD45F, SD70D, SD75, SD77F, T450D



Part No:	11666052
Designation	Pressure gauge
Class	BAS
Hook no	-----
Used when	Hydraulic pressures, measuring
Remark	0–6 MPa, 0–60 bar (0–870 psi)

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), EC140D L, EC140D LM, EC15C, EC160D L, EC160D NL, EC17C, EC180D L, EC18C, EC200B, EC20C, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC27C, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC35C, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L,

2. Measuring equipment

ECR235C L, ECR235D L, ECR305C L, ECR48C, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW55B, EW60C, FC2121C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330D, L330E, L350F, L45F, L45G, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, SD115, T450D



Part No:	88830213
Designation	Measuring equipment
Class	BAS
Used when	Hydraulic pressures, checking
Remark	Replace 88830055

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), BL60B, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, L110F, L120F, L150G, L180G, L20B, L20F, L220G, L25B, L25F, L45F, L45G, L50F, L50G, P7820C ABG (12762881), P8820C ABG (12763184), PF6110, PF6160, PF6170, SD75



Part No:	14290266
Designation	Hose
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	L = 6.5 m (21 ft 3.9 in), M16x2 connection

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC140B LC, EC140B LCM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160D L, EC160D NL, EC180B LC, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145D L, ECR235D L, EW140C, EW140D, EW145B,

2. Measuring equipment

EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW55B, EW60C, FC2121C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330D, L330E, L350F, L45F, L45G, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT220RH, SD110, SD115, T450D



Part No:	11666003
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-40 MPa, 0-400 bar

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A40, EW140C, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C, G930, G940, G946, G960, G970, G976, G990, L110E, L120B, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L40B, L45B, L50D, L50E, L60E, L70D, L70E, L90D, L90D OR, L90E, MC110, MC60, MC70, MC80, MC90, PT220RH

2. Measuring equipment



Part No:	11666016
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	-0,1 - 0,15 MPa, -1 - 1,5 bar

Machines/Components L50D



Part No:	11666017
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-0,6 MPa, 0-6 bar Included in: 14290237

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A35D, A40, A40D, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, ECR145C L, EW140B, EW140C, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C, FC2924C, FC3329C, L110E, L120B, L120C, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220E, L330C, L330C LL, L330D, L330E, L50B, L50D, L50E, L60E, L60F, L70C, L70D, L70E, L70F, L90D, L90D OR, L90E, L90F, TD122

2. Measuring equipment



Part No:	11666018
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-2,5 MPa, 0-25 bar Included in: 14290237

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, HTE1160, HTE840, L110E, L120B, L120C, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220E, L330C, L330C LL, L330D, L330E, L50B, L50D, L50E, L60E, L70C, L70D, L70E, L90C, L90C OR, L90D, L90D OR, L90E, MC110, MC60, MC70, MC80, MC90



Part No:	11666019
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-6 Mpa, 0-60 bar

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A30C, A30D, A30E, A35C, A35D, A40, A40D, BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, EL70, L110E, L120B, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L50B, L50D, L50E, L60E, L70C, L70E, L90D, L90D OR, L90E, MC110, MC60, MC70, MC80, MC90, MT2000, PT220RH, SD110, SD115, SD135, SD75, T450D

2. Measuring equipment



Part No:	11666020
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-25 Mpa, 0-250 bar

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A35D, A40, A40D, AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, EL70, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L120B, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L40B, L45B, L50B, L50D, L50E, L60E, L70C, L70D, L70E, L90D, L90D OR, L90E, MC110, MC60, MC70, MC80, MC90



Part No:	11666022
Designation	Pressure gauge
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	0-60 Mpa, 0-600 bar Included in: 14290237

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EC290B LCD, EC360B LCD, EC460B LCD, L50D, L50E, L70C, PT220RH

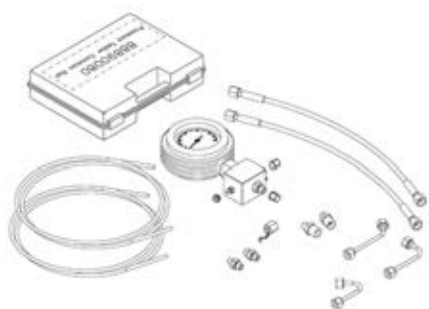
2. Measuring equipment



Part No:	11666037
Designation	Hose
Class	BAS
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	L=3,5m Quick coupling: 9993522

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A30C, A30D, A30E, A35C, A35D, A40, A40D, AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC700B HR, EC700B LC, ECR145C L, EL70, EW140B, EW140C, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C, FC2924C, FC3329C, G930, G940, G946, G960, HT90, HTE1160, HTE840, L110E, L110F, L120B, L120C, L120D, L120E, L120F, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L40B, L45B, L50B, L50D, L50E, L60E, L60F, L70C, L70D, L70E, L70F, L90C, L90C OR, L90D, L90D OR, L90E, L90F, T450D, TD122, TD45, TD61, TD71



Part No:	88890080
Designation	Pressure checking set
Class	EXT
Hook no	-----
Used when	High-pressure pump, checking

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, ECR145C L, ECR235C L, ECR305C L, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FC2924C, FC3329C, G930, G940, G946, G960, L110E, L110F, L120E, L120F, L60F, L70F, L90F



Part No:	936442
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	M10x1 - M16x2

2. Measuring equipment

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, EW140D, EW160D, EW180D, EW210D, L150G, L180G, L220G, L45G, L50G, PL4608, PL4611, PL4808D, T450D



Part No:	937695
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	M10x1,25 - M16x2

Machines/Components

EC360C HR



Part No:	936443
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	M12x1,5 - M16x2

Machines/Components

EC360C HR, L45F, L50F



Part No:	936444
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	M14x1,5 - M16x2

Machines/Components

EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC360C HR, FC2924C, FC3329C, L180F HL, P7820C ABG (12762881), P8820C ABG (12763184), SD75

2. Measuring equipment



Part No:	15018967
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	M16x1,5 - M16x2

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145D L, ECR235D L, G930B, G940B, G946B, G960B, L150G, L180G, L220G, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D, SD115



Part No:	936440
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	G 1/8 - M16x2

Machines/Components

EC360C HR, EC55C, EC60C, EW60C



Part No:	936439
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	G 1/4 - M16x2

Machines/Components

EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC55C, EC60C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, L110F, L120F, L180F, L180F HL, L90F, MC110B

2. Measuring equipment



Part No:	936441
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	PF 1/4 - M16x2

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A40D, EC200, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, L150D, L180D, L60F, L70F, L90F, T450D



Part No:	936445
Designation	Testing nipple
Class	BAS
Used when	Pressure measuring
Remark	7/16-20 UNF - M16x2

Machines/Components

EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, G930B, G940B, G946B, G960B



Part No:	936446
Designation	Testing nipple
Class	BAS
Hook no	-----
Used when	Pressure measuring
Remark	9/16-18UN - M16x2

Machines/Components

BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC55C, EC60C, EW60C, G930B, G940B, G946B, G960B, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, MC110B, MC60B, MC70B, MC80B, MC90B

2. Measuring equipment



Part No:	9993871
Designation	Nipple
Class	BAS
Hook no	9999811
Used when	Fuel feed pressure, checking
Remark	M8x1

Machines/Components

A25D, A25D 4x4, A30D, L120D, L90D, L90D OR



Part No:	9993761
Designation	Testing nipple
Class	BAS
Hook no	9512762
Used when	LS pressure, pressure measuring
Remark	7/16-20

Machines/Components

A30C, A35C, A40



Part No:	9993720
Designation	Nipple
Class	BAS
Hook no	9989353
Used when	Fuel feed pressure, checking
Remark	M14x1,5

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330B LC, EC360B LC, EC360B LR, EC360B NLC, EC460B LC, EC460B LR, ECR145C L, ECR235C L, ECR305C L, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW200B, EW210C, EW210D, FC2121C, FC2924C, FC3329C, G930, G940, G946, G960, L110E, L110F, L120D, L120E, L120F, L150E, L150F, L180E, L180F, L180F HL, L220E, L220F, L350F, L60E, L60F, L70E, L70F, L90D, L90D OR, L90E, L90F, TD122

2. Measuring equipment



Part No:	9993522
Designation	Quick coupling
Class	BAS
Hook no	9999834
Used when	Hydraulic pressures, measuring
Remark	R 1/8"

Machines/Components

AWB10, AWB15, AWB30, AWB31, AWB40, AWB41, AWB50, L120D, L150D, L180D, L180D HL, L330D, L330E, L50B, L50D, L50E, L70C, L90D, L90D OR



Part No:	14290262
Designation	Adapter
Class	EXT
Hook no	9999817
Used when	Checking pressure
Remark	Tema - M16x2

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FC2121C, FC2924C, FC3329C, G930, G940, G946, G960, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L330D, L330E, L350F, L60E, L60F, L70E, L70F, L90E, L90F, T450D



Part No:	14341364
Designation	Adapter
Class	EXT
Hook no	9999817
Used when	Checking pressure
Remark	Tema - M16x2

2. Measuring equipment

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A40D, A40E, A40E FS, EC330B LC, EC360B LC, EC360B LR, EC360B NLC, EC460B LC, EC460B LR, ECR145C L, ECR235C L, ECR305C L, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, G930, G940, G946, G960, L110E, L120E, L150E, L150F, L180E, L180E HL, L180F, L180F HL, L220E, L220F, L330E, L350F, L60E, L70E, L90E, T450D



Part No:	11666027
Designation	Adapter
Class	EXT
Hook no	9999811
Used when	Checking pressure
Remark	M16 x 2 - TEMA

Machines/Components

A25D, A30D, A35D, A40D, G930, G940, G946, G960, L110E, L110F, L120E, L120F, L150D, L150E, L180D, L180E, L180E HL, L220E, L330E, L50E, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	11666023
Designation	Testing nipple
Class	BAS
Hook no	9512762
Used when	Used together with 14290237 and 14360064
Remark	M16x2-M16x1,5

Machines/Components

EC140 LC, EC140 LCM, EC140B LC, EC140B LCM, EC200B, EC210, EC210 F, EC210 LC, EC210 LR, EC210 NLC, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240, EC240 LC, EC240 LR, EC240 NLC, EC240B LC, EC240B LR, EC240B NLC, EC290, EC290 LC, EC290 LR, EC290 NLC, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360, EC360 LC, EC360 NLC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460, EC460 LC, EC460B LC, EC460B LCD, EC460B LR

2. Measuring equipment



Part No:	9993704
Designation	Nipple
Class	BAS
Hook no	9999811
Used when	Servo pressure, checking

Machines/Components

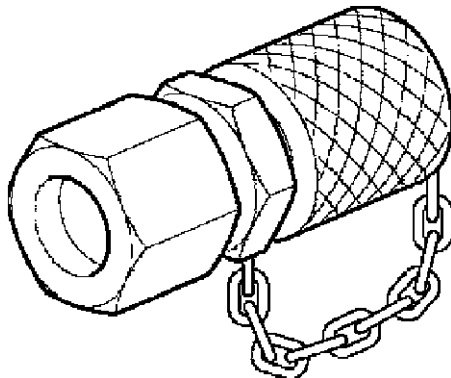
L120D, L150D, L180D, L180D HL, L70C, L90D, L90D OR



Part No:	9993826
Designation	Testing nipple
Class	BAS
Used when	Hydraulic pressure, checking

Machines/Components

L50D, L70D



Part No:	11668527
Designation	Testing nipple
Class	TRA
Used when	Transmission, reconditioning

Machines/Components

EW140



Part No:	88830070
Designation	Plug
Class	EXT
Used when	Plugs used for quick-couplings of type WEO
Remark	3/8"

Machines/Components

L110F, L120F, L150F, L180F, L180F HL, L220F, L60F, L70F, L90F

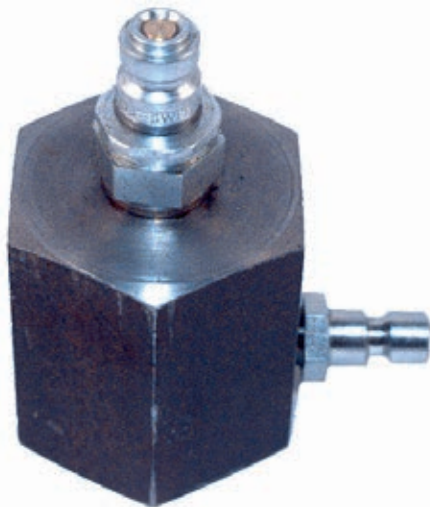
2. Measuring equipment



Part No:	9993827
Designation	Plug
Class	EXT
Hook no	9512762
Used when	Hydraulic pressure, checking and adjusting

Machines/Components

L220D, L330C, L330C LL, L50E



Part No:	9993749
Designation	Nipple
Class	BAS
Used when	Shock valve, checking

Machines/Components

L120D, L150D, L180D, L180D HL, L330C, L330C LL, L90D, L90D OR



Part No:	9993808
Designation	Check valve
Class	EXT
Used when	Shock valve, checking

Machines/Components

L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330E, L350F

2. Measuring equipment



Part No:	9993825
Designation	Check valve
Class	EXT
Hook no	-----
Used when	Shock valve, checking
Remark	Replaces 9993822

Machines/Components

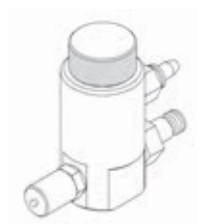
L110F, L120F, L150F, L150G, L180E HL, L180F, L180F HL, L180G, L220F, L220G, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	9993901
Designation	Check valve
Class	EXT
Hook no	-----
Used when	Shock valve, checking

Machines/Components

T450D



Part No:	88830200
Designation	Check valve
Class	EXT
Used when	Pressure relief valve, checking

Machines/Components

EW140, EW140B, EW140C, EW160, EW160B, EW160C, EW180B, EW180C, EW210C

2. Measuring equipment



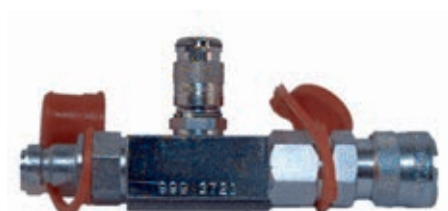
Part No:	9993642
Designation	Nipple
Class	EXT
Hook no	9988593
Used when	Shock valve, checking

Machines/Components
EL70, EL70C



Part No:	9993643
Designation	Nipple
Class	EXT
Hook no	9988593
Used when	Shock valve, checking

Machines/Components
EL70, EL70C



Part No:	9993723
Designation	Nipple
Class	EXT
Hook no	9512762
Used when	Hydraulic system, measuring pressures
Remark	Sparepart 9993758

Machines/Components

AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, HTE1160, HTE840, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330C, L330C LL, L330D, L330E, L350F, L50B, L50D, L50E, L60E, L70C, L70E, L90D, L90D OR, L90E



Part No:	9993726
Designation	Nipple
Class	EXT
Hook no	9512762
Used when	Hydraulic pressures, measuring
Remark	Sparepart 9993758, 963804

Machines/Components

AWB10, AWB15, AWB40, L330D, L330E, L50B, L50D, L50E, L70C

2. Measuring equipment



Part No:	14527842
Designation	Plug
Class	HYD
Hook no	-----
Used when	Hydraulic pump, reconditioning

Machines/Components
ECR58



Part No:	14527843
Designation	Plug
Class	HYD
Hook no	-----
Used when	Hydraulic pump, reconditioning

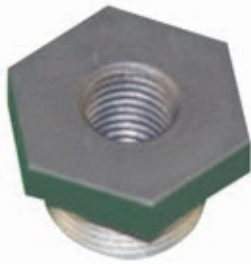
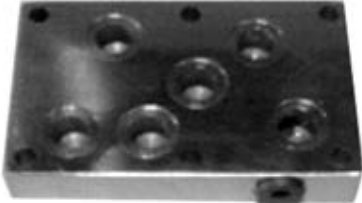
Machines/Components
ECR58



Part No:	14528288
Designation	Plug
Class	HYD
Hook no	-----
Used when	Hydraulic pump, reconditioning

Machines/Components
ECR88

2. Measuring equipment

	Part No: 14528289 Designation Plug Class HYD Hook no ----- Used when Hydraulic pump, reconditioning
Machines/Components ECR88	
	Part No: 9993680 Designation Nipple Class TRA Hook no 9999811 Used when Solenoid, testing
Machines/Components PT1560, PT1562, PT1563, PT1660, PT1860, PT1862, PT1863	
	Part No: 14264397 Designation Sealing plate Class EXT Used when Trouble-shooting on valve block
Machines/Components EC200, EC230, EW200, EW230	
	Part No: 17201553 Designation Intermediate plate Class EXT Used when Kit for USB connection to PC when using TWIN 2 and 3 Remark Includes 88830184, 88830185 and 88830186. Twin Gina 3 software is available through the Software Support and can be provided on demand. vce.softwaresupport@volvo.com

2. Measuring equipment

	Part No: Designation Used when	88830187 Connecting cable Cable for connecting PC to machine with TWIN 3 Automatic Greasing System
	Part No: Designation Class Used when	11666119 Cable R Cable for connecting PC to machine with TWIN 2 Automatic Greasing System
	Part No: Designation Class Used when	11666124 Cable R Cable for connecting PC to Twin Automatic Greasing System
	Part No: Designation Class Hook no Used when Remark	9993721 Service display BAS 9989322 x 2 Trouble-shooting, checking pressures, temperatures and revolutions Sparepart 11666145 Extension cable 11668006

Machines/Components

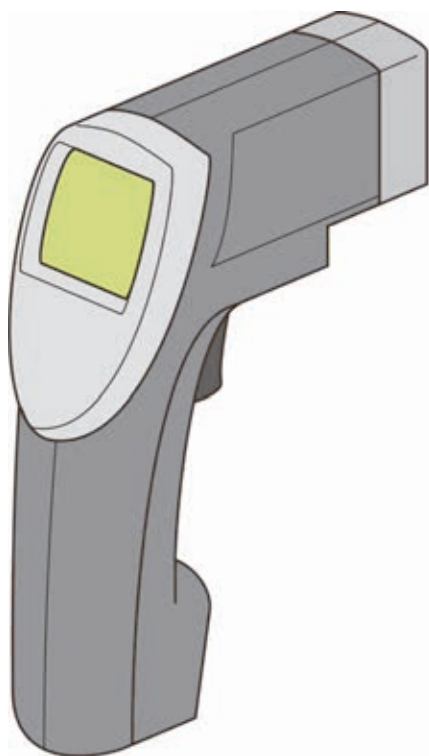
A20C, A25C, A25C 4x4, A30C, A35C, A40, EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC230B, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC700B HR, EC700B LC, EW145B, EW160B, EW180B, EW200B, L110E, L120B, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L50B, L50D, L50E, L60E, L70C, L70D, L70E, L90B, L90D, L90D OR, L90E

	Part No: Designation Class Hook no Used when Remark	11668006 Cable EXT 9512602 Extension cable for 9993721 L=3m
---	--	--

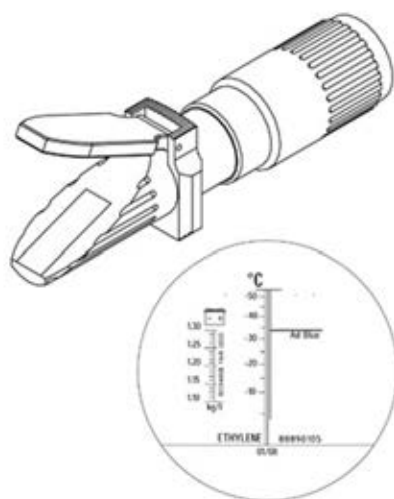
2. Measuring equipment

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC700B HR, EC700B LC, EW145B, L120C, L150C, L150C LB, L180C, L180C CO, L180C HL, L220D, L330C, L330C LL, L50C, L50C OR, L70C, L90C, L90C OR



Part No:	9998519
Designation	Infrared thermometer (user instruction in FGI 080)
Class	BAS
Hook no	9999817
Used when	Used when measuring temperature
Remark	Range: -30 C to +550 C



Part No:	88890105
Designation	Refractometer
Class	BAS
Used when	Checking the coolant's freezing protection.

Machines/Components

EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC,

2. Measuring equipment

EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR58, ECR88, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW55B, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, P7110, PL3005D, PL4608, PL4611, PL4808D, SD115, SD135



Part No:	88890075
Designation	Battery analyzer
Class	BAS
Used when	Battery test, alternator test, etc.

Machines/Components

L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F



Part No:	88880016
Designation	Cable
Class	EXT
Used when	Extension cable for battery analyzer 88890075
Remark	L=4400 mm

2. Measuring equipment



Part No:	88890074
Designation	Multimeter
Class	BAS
Used when	Electrical measuring
Remark	Replaces 9812519 (and 11666140, 11704676)

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), DD100, DD100HF, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC230B, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR58, ECR88, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW55B, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, FL-IL1, FL-IL2, G930B, G940B, G946B, G960B, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PF2181, PF4410, PL3005D, PL4608, PL4611, PL4808D, PT1506, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT220, PT220RH, PT240RH, PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD110, SD115, SD135

2. Measuring equipment



Part No:	88890091
Designation	Clip-on ampmeter
Class	EXT
Used when	Measuring current together with 88890074
Remark	Replaces 11702958 and 14213536

Machines/Components

EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC480D L, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, PL4608, PL4611



Part No:	9812530
Designation	Temperature sensor
Class	BAS
Hook no	-----
Used when	Measuring temperature together with 9812519
Remark	Replaces 11666141

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A30C, A30D, A30E, A35C, A35D, A35E, A35E FS, A40, A40D, A40E, A40E FS, EC55C, EC60C, EW60C, L110E, L120C, L120E, L150C, L150C LB, L180C, L180C CO, L180C HL, L220D, L220E, L330C, L330C LL, L330E, L50C, L50C OR, L60E, L70C, L90C, L90C OR

2. Measuring equipment



Part No:	80872179
Designation	Insulation tester
Class	BAS
Used when	Resistance test of the heating elements - electrical heating system



Part No:	9990008
Designation	Measuring equipment
Class	BAS
Used when	Troubleshooting
Remark	Used together with multimeter

Machines/Components

A25D, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60B, BL61B, BL70B, BL71B, EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC55C, EC60C, EC80D, ECR145D L, ECR235D L, ECR28, ECR38, ECR58, ECR88, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW200B, EW210C, EW210D, EW60C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L20B, L220E, L220F, L220G, L25B, L30B, L330E, L350F, L35B, L40B, L45B, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D



Part No:	13837109
Designation	Measuring tool
Class	EXT
Used when	Troubleshooting

2. Measuring equipment



Part No:	9993892
Designation	Electronic unit
Class	BAS
Used when	Troubleshooting, checking stored info, pressures, temperatures and revolutions

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A35D, A40, A40D, L110E, L110F, L120C, L120D, L120E, L120F, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330C, L330C LL, L330D, L330E, L50C, L50C OR, L50D, L50E, L60E, L60F, L70C, L70D, L70E, L70F, L90C, L90C OR, L90D, L90D OR, L90E, L90F



Part No:	9998645
Designation	Setting tool
Class	BAS
Used when	Adjusting injection pump
Remark	Is replacing 9987057

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, L120C, L120D, L150C, L150C LB, L150D, L180C, L180C CO, L180C HL, L180D, L180D HL, L220D, L330C, L330C LL, L330D, L330E, L50C, L50C OR, L70C, L70D, L90C, L90C OR, L90D, L90D OR, TD103, TD164, TD40, TD73



Part No:	80872138
Designation	Tachometer
Class	BAS
Used when	Checking rotational speed
Remark	Reflecting sticker 14210992

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A35D, A40, A40D, EC140B LC, EC140B LCM, EC140C, EC140C LM, EC150C, EC160C L, EC160C NL, EC180C L, EC200B, EC210B, EC210B LC, EC210C L, EC235C LD, EC235C NL, EC240B LC, EC240C L, EC290B LC,

2. Measuring equipment

EC290C L, EC290C LR, EC330B LC, EC330C L, EC360B LC, EC360C L, EC460B LC, EC460C L, EC55B, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, ECR58, ECR88, EW140C, EW140D, EW145B, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW200B, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L20B, L20F, L25B, L25F, L330C, L330C LL, MT2000, PL4608, PL4611



Part No:	88830195
Designation	Tachometer
Class	BAS
Used when	Checking rotational speed
Remark	Replaces 12976108

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), EW140C, EW160C, EW180C, EW210C, PF2181, PF4410, T450D



Part No:	11668002
Designation	Measuring tool
Class	EXT
Used when	Resistance test of transmission. Replaces 11668001

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, PT1560, PT1860, PT1862

2. Measuring equipment



Part No:	11668003
Designation	Measuring tool
Class	EXT
Used when	Checking alpha adjuster and transmission functions

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, L330C, L330C LL, L330D, L330E



Part No:	14576840
Designation	Measuring tool
Class	BAS
Used when	Troubleshooting
Remark	Replaces 14515484

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200B, EC210B, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C L, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140D, EW145B, EW160D, EW180D, EW210D, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, L150G, L180G, L220G, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, SD115, SD135



Part No:	9998699
Designation	Adapter
Class	BAS
Hook no	9999818
Used when	Trouble-shooting
Remark	Is replacing 9998551

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535),

2. Measuring equipment

A40F FS (37534), BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC230B, EC230C, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140B, EW140C, EW140D, EW145B, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L220D, L220E, L220F, L220G, L25B, L30B, L330D, L330E, L350F, L35B, L40B, L45B, L45F, L45G, L50D, L50E, L50F, L50G, L60E, L60F, L70D, L70E, L70F, L90D, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT1506, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD115, SD135



Part No:	9990062
Designation	Cable
Class	BAS
Used when	Trouble-shooting
Remark	L=2,5m Used together with 9998699

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60, BL61, BL70, BL71, BL71B, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960,

2. Measuring equipment

G960B, G970, G976, G990, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L220D, L220E, L220F, L220G, L25B, L30B, L330D, L330E, L350F, L35B, L40B, L45B, L45F, L45G, L50D, L50E, L50F, L50G, L60E, L60F, L70D, L70E, L70F, L90D, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT1560, PT1860, PT1862, PT2509 (22401), SD115, SD135



Part No:	88830182
Designation	Cable
Class	BAS
Hook no	9999824
Used when	Connection between new variant of break out boxes without cable fixed to the box.
Remark	L=500 mm

Machines/Components

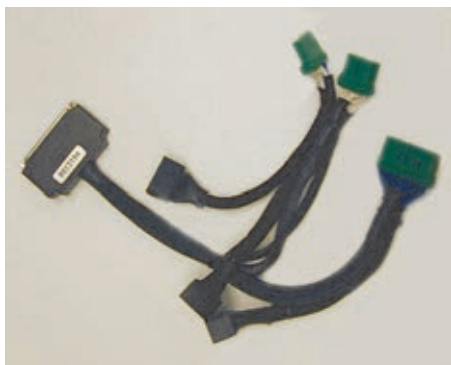
BL60B, BL61B, BL70B, BL71B



Part No:	9511355
Designation	Break out harness
Class	BAS
Hook no	9989355
Used when	Trouble-shooting

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, A40E, A40E FS, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90E



Part No:	9813194
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Trouble-shooting

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, A40E, A40E FS, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90E, SD115, SD135

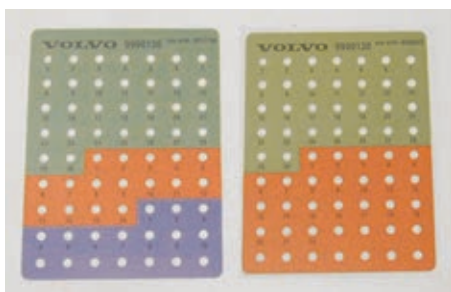
2. Measuring equipment



Part No:	9998533
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Trouble-shooting

Machines/Components

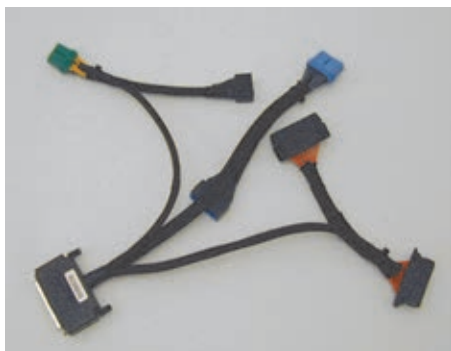
A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, A40E, A40E FS, G930, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90E



Part No:	9990130
Designation	Template
Class	BAS
Hook no	9999811
Used when	Trouble-shooting
Remark	Used together with 9998533 and 9813194

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, A40E, A40E FS, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90E

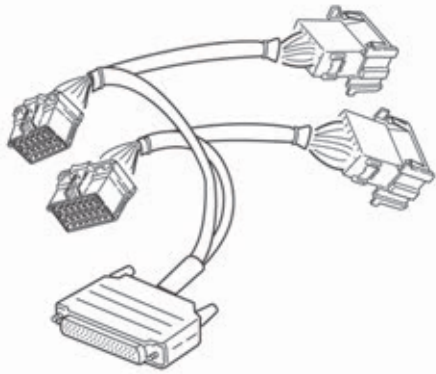


Part No:	9990020
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble-shooting

Machines/Components

G930, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L350F, L50D, L50E, L60E, L70D, L70E, L90D, L90E

2. Measuring equipment



Part No:	9990025
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble-shooting
Remark	21-pin connector Used together with 9990133

Machines/Components

EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC340D L, EC360C HR, EC360C L, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC480D HR, EC480D L, EC700C L, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, PL3005D, PL4608, PL4611, PL4808D



Part No:	9990133
Designation	Template
Class	BAS
Hook no	9999811
Used when	Troubleshooting
Remark	Used together with 9990020

Machines/Components

EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC80D, ECR145D L, ECR235D L, G930, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L350F, L50D, L50E, L60E, L70D, L70E, L90D, L90E, PL3005D, PL4808D

2. Measuring equipment



Part No:	9998505
Designation	Break out harness
Class	BAS
Hook no	9512602
Used when	Trouble-shooting
Remark	Is replacing 9998505:1+9998540

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC700B LC, EW145B, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L220D, L220E, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90E



Part No:	9990014
Designation	Break out harness
Class	BAS
Hook no	9999826
Used when	Troubleshooting of engine-ECU, Tier 3

Machines/Components

A25D, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL71B, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140B, EW140C, EW140D, EW145B, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, L45G, L50G, L60E, L60F, L70E, L70F, L90E, L90F,

2. Measuring equipment

P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, SD115, SD135



Part No:	9993895
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Measuring on T-ECU
Remark	23 pin

Machines/Components

710A, 710A VHP, 716A VHP, 720A, 726A VHP, 730A, 730A VHP, 736A VHP, 740A, 740A VHP, 750A, 750A VHP, 780A, 780A VHP, EC55C, EC60C, EW60C, G710, G710 VHP, G710B, G716 VHP, G720, G720 VHP, G720B, G726 VHP, G726B, G730, G730 VHP, G730B, G736 VHP, G740, G740 VHP, G740B, G746B, G780, G780 VHP, G780B



Part No:	9993891
Designation	Cable
Class	EXT
Hook no	9999818
Used when	Troubleshooting on HVAC-unit
Remark	L=3 m

Machines/Components

G930



Part No:	9998534
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Trouble-shooting

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L,

2. Measuring equipment

EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC340D L, EC360C HR, EC360C L, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC480D HR, EC480D L, EC700B LC, EC700C L, ECR145D L, ECR235D L, FB2800C, FBR2800C, FL-IL1, FL-IL2, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L220E, L220F, L220G, L330D, L330E, L350F, L45F, L50D, L50E, L50F, L60E, L60F, L70D, L70E, L70F, L90D, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD115, SD135



Part No:	9998567
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Trouble-shooting
Remark	7 pin

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, ECR145D L, ECR235D L, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330D, L330E, L350F, L50D, L50E, L60E, L60F, L70D, L70E, L70F, L90D, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D



Part No:	9990191
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Troubleshooting

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330E, L350F, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F

2. Measuring equipment



Part No:	9990216
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble shooting sensor
Remark	2 pin, 3 pin and 4 pin

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), BL71B, EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC80D, ECR145D L, ECR235D L, L110F, L120F, L150E, L150G, L180E, L180E HL, L180G, L220E, L220G, L330E, L350F, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D, SD115, SD135



Part No:	9998563
Designation	Break out harness
Class	BAS
Hook no	9988590
Used when	Troubleshooting
Remark	For engine cable harness

Machines/Components

L150E, L180E, L180E HL, L220E, L330E

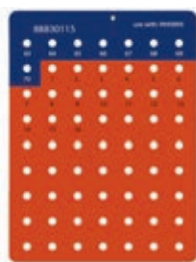
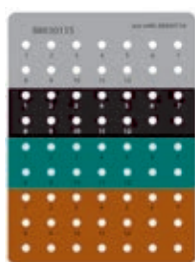


Part No:	9998576
Designation	Break out harness
Class	BAS
Hook no	9512602
Used when	Trouble-shooting

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A40D, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863

2. Measuring equipment



Part No:	88830115
Designation	Template
Class	BAS
Hook no	9999811
Used when	Identification of pins for break out harness
Remark	Template for 88830116 and 9993893, used with 9998699. Replaces 9993894

Machines/Components

EC140B LC, EC140B LCM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160D L, EC160D NL, EC180B LC, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC220D L, EC220D LR, EC220D N, EC220D NL, EC230B, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC480D HR, EC480D L, EC700B HR, EC700B LC, ECR145D L, ECR235D L, EW140B, EW140C, EW140D, EW145B, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, G930, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D



Part No:	9993893
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble-shooting

Machines/Components

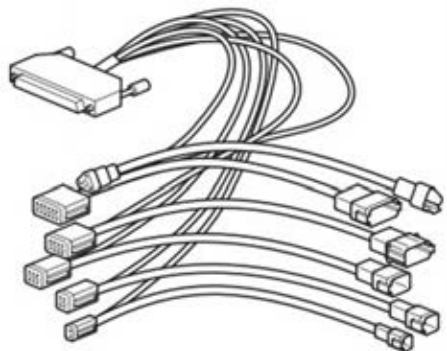
A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), EC140B LC, EC140B LCM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160D L, EC160D NL, EC180B LC, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC80D, ECR145D L, ECR235D L, EW140B, EW140C, EW140D, EW145B, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D, SD115, SD135

2. Measuring equipment



Part No:	88830116
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	4x12 pin Deutsch connectors

Machines/Components
PL4608, PL4611



Part No:	88890016
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble-shooting
Remark	2, 3, 4, 6, 8, 12-pin Deutsch connectors

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60, BL61, BL61 PLUS, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L220E, L220F, L220G, L25B, L30B, L330E, L350F, L35B, L40B, L45B, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD115, SD135



Part No:	88890019
Designation	Template
Class	BAS
Hook no	9999811
Used when	Trouble-shooting
Remark	Used together with 88890016

2. Measuring equipment

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60, BL61, BL61 PLUS, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B LC, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L220E, L220F, L220G, L25B, L30B, L330E, L350F, L35B, L40B, L45B, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD115, SD135



Part No:	9993885
Designation	Break out harness
Class	BAS
Hook no	9512602
Used when	Troubleshooting on transmission
Remark	Used together with template 88830038

Machines/Components

A25F (37214), A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	88830038
Designation	Template
Class	BAS
Hook no	9999811
Used when	Troubleshooting with 9998699
Remark	Used together with 9993885 and 9998576

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

2. Measuring equipment



Part No:	88830117
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	23 pin Deutsch connectors

Machines/Components
PL4608, PL4611



Part No:	88830118
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	23 pin Deutch connectors, same as 88830117 but with inverted pins and sockets

Machines/Components
PL4608, PL4611



Part No:	88830119
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	31 pin Deutsch connectors

Machines/Components
PL4608, PL4611



Part No:	88830134
Designation	Break out harness
Class	EXT
Hook no	9999824
Used when	Trouble shooting on control unit for hydraulics.
Remark	25 pin connector

Machines/Components
FB2800C, FBR2800C

2. Measuring equipment



Part No:	88830135
Designation	Calibration tool
Class	EXT
Hook no	9999824
Used when	Calibration of hydraulic pump.

Machines/Components
FB2800C, FBR2800C



Part No:	88830139
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	92 pin connector

Machines/Components
A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)



Part No:	88890119
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	4 different coded 2 pin connectors

Machines/Components
A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, G930B, G940B, G946B, G960B, L150G, L180G, L220G, P7820C ABG (12762881), P8820C ABG (12763184), PL4808D



Part No:	88890024
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Fault tracing on electrical system
Remark	2 pin, 3 pin, 4 pin and 6 pin connectors

2. Measuring equipment

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, P7820C ABG (12762881), P8820C ABG (12763184), PL4808D



Part No:	9809685
Designation	Cable
Class	EXT
Hook no	9999818
Used when	Current supply from battery
Remark	L=5 m

Machines/Components

L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L20B, L20F, L220E, L220F, L220G, L25B, L25F, L350F, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	9993884
Designation	Converter
Class	EXT
Hook no	-----
Used when	Electric power supply from 12V to 24V
Remark	In 12V - Out 24V

Machines/Components

BL60, BL61, BL70, BL71, EC13 XR, EC13 XTV, EC15 XR, EC15 XT, EC15 XTV, EC35C, EC45, ECR28, ECR38, ECR58, ECR88, L20B, L25B, L30B, L35B, L40B, L45B, MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	9993896
Designation	Adapter
Class	BAS
Hook no	9999824
Used when	Programming of PUMA I and PUMA II without access to machine

Machines/Components

EC35, EW70, EW70 VV

2. Measuring equipment



Part No:	9993897
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Trouble-shooting
Remark	47 pins

Machines/Components

BL60, BL61, BL70, BL71



Part No:	9993898
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Measuring of ECU
Remark	24 pins

Machines/Components

BL60, BL61, BL70, BL71, L350F



Part No:	9993899
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Measuring of ECU
Remark	40 pins

Machines/Components

BL60, BL61, BL70, BL71, L350F

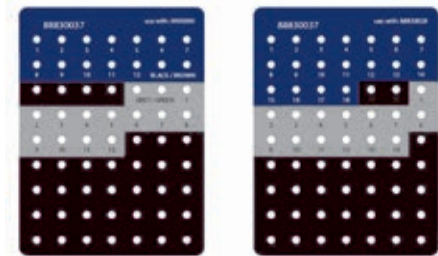
2. Measuring equipment



Part No:	9993900
Designation	Break out harness
Class	EXT
Hook no	9999824
Used when	Measuring of ECU
Remark	2 x 12 pins

Machines/Components

BL60, BL61, BL70, BL71, ECR28, ECR38, ECR58, ECR88



Part No:	88830037
Designation	Template
Class	BAS
Hook no	9999811
Used when	Troubleshooting, used for breakout box 9998699
Remark	Used together with 9993900 and 88830028

Machines/Components

BL60, BL61, BL70, BL71, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR28, ECR305C L, ECR38, ECR58, ECR88, EW140C, EW160C, EW180C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, SD115, SD135



Part No:	88830170
Designation	Break out harness
Class	BAS
Used when	Break out cable for fault tracing on Instrument ECU
Remark	26 pin (88830182 required to connect to break out box)

2. Measuring equipment



Part No:	88830171
Designation	Break out harness
Class	BAS
Used when	Break out cable for fault tracing on Transmission ECU
Remark	56 pin (88830182 required to connect to break out box)

Machines/Components

BL60B, BL61B, BL70B, BL71B



Part No:	88830028
Designation	Break out harness
Class	BAS
Hook no	9512602
Used when	Measuring on instrument ECU
Remark	18-pin = pin 1-18 and 14-pin = pin 21-34

Machines/Components

A25E, A25E 4x4, A30E, A35E, A35E FS, A40E, A40E FS, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC480D HR, EC480D L, EC700C L, EC700C LD, EC80D, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, SD115, SD135



Part No:	88830052
Designation	Break out harness
Class	BAS
Hook no	9999824
Used when	Measuring on E-ECU
Remark	48-pin

Machines/Components

EC55C, EC60C, EW60C

2. Measuring equipment

	Part No:	9998359
	Designation	Break out harness
	Class	BAS
	Hook no	-----
	Used when	Troubleshooting of EMR-2

Machines/Components
EC140B LC, EC140B LCM

	Part No:	9990155
	Designation	Break out harness
	Class	BAS
	Used when	Measuring on T-ECU

Machines/Components
L45F, L45G, L50F, L50G

	Part No:	88890025
	Designation	Break out harness
	Class	BAS
	Used when	Measuring on instrument ECU
	Remark	39 pin

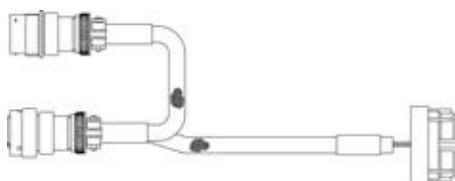
	Part No:	88830027
	Designation	Break out harness
	Class	BAS
	Hook no	9512602
	Used when	Measuring on instrument ECU

Machines/Components
L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F

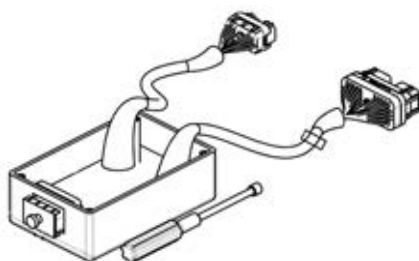
2. Measuring equipment



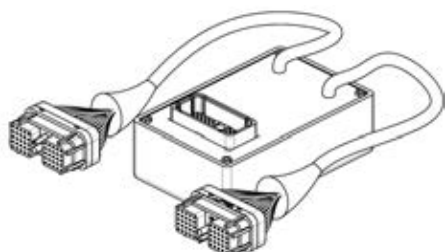
Part No:	13487293
Designation	Measuring tool
Class	EXT
Used when	Used for trouble shooting.



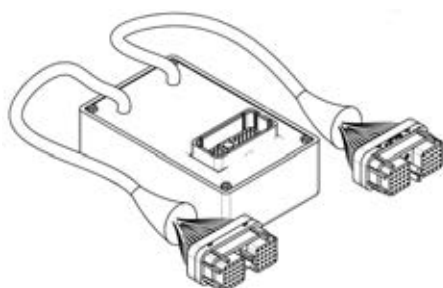
Part No:	13495379
Designation	Break out harness
Class	EXT
Used when	Used for trouble shooting.



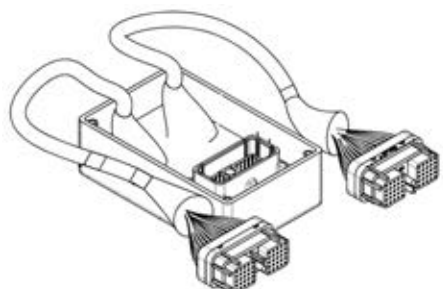
Part No:	13848080
Designation	Break out harness
Class	EXT
Used when	Used for trouble shooting.



Part No:	13487301
Designation	Break out harness
Class	EXT
Used when	Used for trouble shooting.



Part No:	13487319
Designation	Break out harness
Class	EXT
Used when	Used for trouble shooting.



Part No:	13866983
Designation	Break out harness
Class	EXT
Used when	Used for trouble shooting.

2. Measuring equipment



Part No:	8940-00210
Designation	Break out harness
Class	BAS
Hook no	9999811
Used when	Check of engine rpm control
Remark	3 pin

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LR, EC360B NLC, EC460B LC, EC460B LR, EC700B LC



Part No:	8920-01010
Designation	Break out harness
Class	BAS
Hook no	9999811
Used when	Check of power shift valve
Remark	2 + 2 pin, Is replacing 8920-00220

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LR, EC290C NL, EC330B LC, EC330C L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC700B LC, EC700C L, FC2924C, FC3329C



Part No:	8920-01805
Designation	Break out harness
Class	BAS
Hook no	9999811
Used when	Check of flow control valve
Remark	2 pin

Machines/Components

EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX,

2. Measuring equipment

EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW145B, FC2121C, FC2421C, FC2924C, FC3329C, PL3005D, PL4608, PL4611, PL4808D



Part No:	8920-01806
Designation	Break out harness
Class	BAS
Hook no	9999811
Used when	Check of solenoid valve
Remark	2 pin

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LR, EC360B NLC, EC460B LC, EC460B LR, EC55B, EC700B HR, EC700B LC, ECR58, ECR88, EW145B, EW55B



Part No:	8920-01808
Designation	Break out harness
Class	BAS
Hook no	9999811
Used when	Check of DC-DC converter
Remark	6 pin

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LR, EC360B NLC, EC460B LC, EC460B LR, EC700B LC

2. Measuring equipment



Part No:	14524236
Designation	Check tool
Class	EXT
Hook no	-----
Used when	Diesel heater checking and reset, option
Remark	5KW, 10KW

Machines/Components

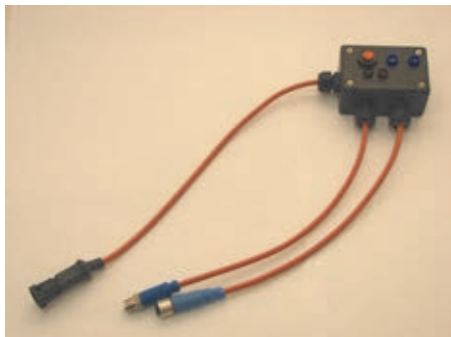
EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC180B LC, EC180C L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, ECR145C L, FC2121C, FC2421C



Part No:	14597392
Designation	Cable
Class	BAS
Hook no	9999817
Used when	LMS (Load Management System) control unit, data download
Remark	From 3 pin service port to RS232 port

Machines/Components

PL4608, PL4611

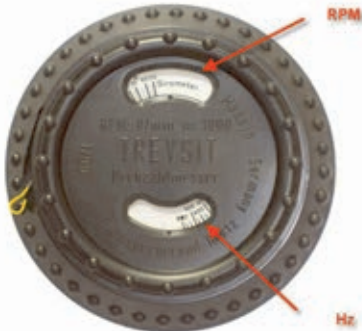


Part No:	88830136
Designation	Test unit
Class	EXT
Used when	Test of fire suppression system

Machines/Components

EC250D L, EC300D L, EC340D L, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L60F, L70F, L90F

2. Measuring equipment

	<table> <tr> <td>Part No:</td><td>13977467</td></tr> <tr> <td>Designation</td><td>Vibrating reed tachometer</td></tr> <tr> <td>Class</td><td>BAS</td></tr> <tr> <td>Used when</td><td>Measuring RPM and frequency</td></tr> <tr> <td>Remark</td><td>800-50000 RPM, 14-750 cycles</td></tr> </table>	Part No:	13977467	Designation	Vibrating reed tachometer	Class	BAS	Used when	Measuring RPM and frequency	Remark	800-50000 RPM, 14-750 cycles
Part No:	13977467										
Designation	Vibrating reed tachometer										
Class	BAS										
Used when	Measuring RPM and frequency										
Remark	800-50000 RPM, 14-750 cycles										

	<table> <tr> <td>Part No:</td><td>35895432</td></tr> <tr> <td>Designation</td><td>Vibrating reed tachometer</td></tr> <tr> <td>Class</td><td>BAS</td></tr> <tr> <td>Used when</td><td>Measure vibrations per minute</td></tr> <tr> <td>Remark</td><td>1000 - 6000 RPM</td></tr> </table>	Part No:	35895432	Designation	Vibrating reed tachometer	Class	BAS	Used when	Measure vibrations per minute	Remark	1000 - 6000 RPM
Part No:	35895432										
Designation	Vibrating reed tachometer										
Class	BAS										
Used when	Measure vibrations per minute										
Remark	1000 - 6000 RPM										

Machines/Components
DD100

	<table> <tr> <td>Part No:</td><td>11666008</td></tr> <tr> <td>Designation</td><td>Gas filling kit</td></tr> <tr> <td>Class</td><td>BAS</td></tr> <tr> <td>Used when</td><td>Accumulator, filling gas</td></tr> <tr> <td>Remark</td><td>Sparepart 11666122</td></tr> </table>	Part No:	11666008	Designation	Gas filling kit	Class	BAS	Used when	Accumulator, filling gas	Remark	Sparepart 11666122
Part No:	11666008										
Designation	Gas filling kit										
Class	BAS										
Used when	Accumulator, filling gas										
Remark	Sparepart 11666122										

Machines/Components
L330D, L330E, L50B, L70C

	<table> <tr> <td>Part No:</td><td>11666135</td></tr> <tr> <td>Designation</td><td>Gas filling kit</td></tr> <tr> <td>Class</td><td>BAS</td></tr> <tr> <td>Used when</td><td>Accumulator, filling gas</td></tr> <tr> <td>Remark</td><td>Is replacing 11666132</td></tr> </table>	Part No:	11666135	Designation	Gas filling kit	Class	BAS	Used when	Accumulator, filling gas	Remark	Is replacing 11666132
Part No:	11666135										
Designation	Gas filling kit										
Class	BAS										
Used when	Accumulator, filling gas										
Remark	Is replacing 11666132										

Machines/Components

A20C, A25C, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC200B, EC210B, HB100, HB1100, HB1400, HB150, HB1700, HB200, HB2400, HB300, HB3200, HB3800, HB440, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330E, L350F, L40B, L45B, L50D, L50E, L60E, L60F, L70D, L70E, L70F, L90D, L90D OR, L90E, L90F

2. Measuring equipment



Part No:	11666136
Designation	Nipple
Class	BAS
Hook no	-----
Used when	Used together with 11666132/135 and Oiltechaccar

Machines/Components

L330C, L330D, L330E



Part No:	11666139
Designation	Adapter
Class	BAS
Hook no	9989356
Used when	Filling gas in cylinder for underhung tailgate
Remark	Used together with 11666135

Machines/Components

A20C, A25C, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534)



Part No:	88830034
Designation	Adapter
Class	BAS
Hook no	9512762
Used when	Filling gas in accumulators on FS-machines

Machines/Components

A25F (37214), A30F (37432), A35E FS, A35F FS (37141), A40E FS, A40F FS (37534)

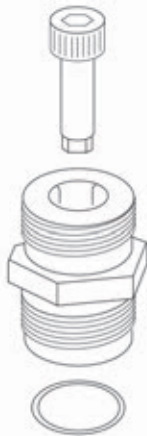
2. Measuring equipment



Part No:	88830029
Designation	Adapter
Class	BAS
Hook no	-----
Used when	Filling accumulator with gas, used together with 11666135

Machines/Components

HB100, HB150



Part No:	11666173
Designation	Adapter
Class	BAS
Hook no	-----
Used when	Filling accumulator with gas, used together with 11666135

Machines/Components

A25D, EC200B, EC210B, HB1100, HB1400, HB1700, HB200, HB2400, HB300, HB3200, HB3800, HB440



Part No:	56475
Designation	Gas filling kit
Class	EXT
Hook no	-----
Used when	Piston-type accumulators

Machines/Components

G780, G780B, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990

2. Measuring equipment

No Picture
Available

Part No:	56474
Designation	Gauge
Class	EXT
Hook no	-----
Used when	Accumulator charging kits

Machines/Components

G780, G780B



Part No:	9993844
Designation	Regulator
Class	EXT
Hook no	9988593
Used when	Checking for leaks

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56I (56044), AH64Q (56041), AHW64M, AHW64N, AHW64O, AHW71, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), D10B, FL-IL1, FL-IL2, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), T450D, TD103



Part No:	9996662
Designation	Pressure gauge
Class	ENG
Used when	Cylinder head, pressure testing

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D4E, D5D, D5E, D6D, D6E, D7E, D9A, D9B, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D

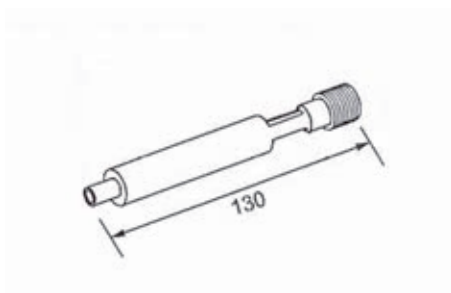
2. Measuring equipment



Part No:	11713131
Designation	Pressure gauge
Class	EXT
Hook no	-----
Used when	Compression test

Machines/Components

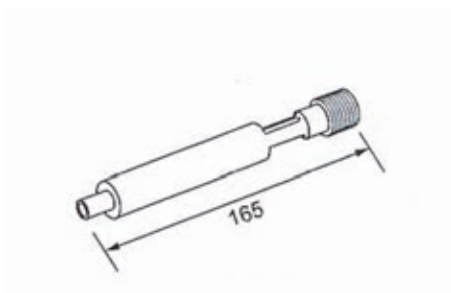
D1.2A, D1.6A, D2.0A, D2.2A, D3.1A, D3.4A, EC15C, EC17C, EC18C, EC20C, EC27C, EC35C, ECR48C, MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	88830030
Designation	Adapter
Class	EXT
Hook no	-----
Used when	Compression test
Remark	Used together with 11713131

Machines/Components

D1.6A, D2.2A, EC15C, EC17C, EC18C, EC20C, EC27C, EC35C, ECR48C, MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	88830031
Designation	Adapter
Class	EXT
Hook no	-----
Used when	Compression test
Remark	Used together with 11713131

Machines/Components

D2.0A, D3.1A, D3.4A, MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	9988539
Designation	Pressure gauge
Class	EXT
Used when	Compression test
Remark	Diagram 9999693

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535),

2. Measuring equipment

A40F FS (37534), EW60C, G710B, G720B, G726B, G730B, G740B, G746B, G780B, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L20B, L20F, L220E, L220F, L220G, L25B, L25F, L30B, L350F, L35B, L40B, L45B, L45F, L50E, L50F, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), T450D



Part No:	88800284
Designation	Adapter (steel sleeve)
Class	EXT
Used when	Compression test
Remark	For steel sleeves

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), L150G, L180G, L220G



Part No:	88830205
Designation	Adapter
Class	EXT
Used when	Compression test
Remark	Compression test on Deutz engine

Machines/Components

P7820C ABG (12762881), P8820C ABG (12763184)



Part No:	9998248
Designation	Adapter (copper sleeve)
Class	EXT
Hook no	9999834
Used when	Compression test

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), L150E, L150F, L180E, L180F, L180F HL, L220E, L220F, L350F, T450D

2. Measuring equipment



Part No:	9998665
Designation	Adapter
Class	EXT
Hook no	9512762
Used when	Compression test
Remark	Used together with 9998248

Machines/Components

A35D, A35E, A35E FS, A40D, L110E, L110F, L120E, L120F, L150E, L150F, L180E, L180F, L180F HL, L220E, L220F, L350F, L60F, L70F, L90F, T450D



Part No:	9998009
Designation	Adapter
Class	EXT
Hook no	9989353
Used when	Compression test

Machines/Components

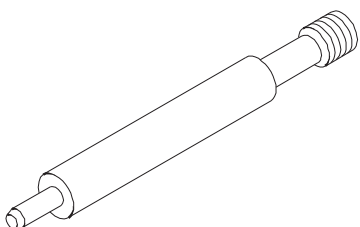
A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A40, G710B, G720B, G726B, G730B, G740B, G746B, G780B, L90C, L90C OR, TD102, TD122, TD164, TD45, TD61, TD71, TD73



Part No:	9998694
Designation	Adapter
Class	EXT
Hook no	9512762
Used when	Compression test

Machines/Components

L110E, L120E, L40B, L45B, L45F, L50E, L50F, L60E, L70E, L90E



Part No:	2904628
Designation	Adapter
Class	ENG
Hook no	-----
Used when	Compression test

M200865A

Machines/Components

D3D, L20B, L20F, L25B, L25F, L30B, L35B

2. Measuring equipment



Part No:	88830026
Designation	Adapter
Class	EXT
Hook no	9512762
Used when	Compression test
Remark	Tier 3

Machines/Components

L110E, L110F, L120E, L120F, L60F, L70F, L90F



Part No:	9808038
Designation	Leak detector
Class	EXT
Hook no	-----
Used when	Checking CO-leakage on engine

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140D, EW160D, EW180D, EW210D, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930B, G940B, G946B, G960B, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D, T450D



Part No:	11666095
Designation	Probe
Class	BAS
Hook no	9999834
Used when	Fuel injection timing, checking

Machines/Components

L50C, L50C OR, TD40

2. Measuring equipment



Part No:	9998517
Designation	Setting tool
Class	EXT
Hook no	9988586
Used when	Flywheel, sensor

Machines/Components

A35D, A35E, A35E FS, A40D, L150E, L150F, L180E, L180F, L180F HL, L220E, L220F



Part No:	88800031
Designation	Setting tool
Class	EXT
Hook no	-----
Used when	Setting of ring gear sensor

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), G930B, G940B, G946B, G960B, L150G, L180G, L220G, L350F



Part No:	9993197
Designation	Setting tool
Class	ENG
Hook no	-----
Used when	Pre-injection, checking and setting

Machines/Components

D1.2A

2. Measuring equipment

	Part No:	11666096
	Designation	Injection pump tool
	Class	ENG
	Hook no	9999827
	Used when	Injection timing, setting

Machines/Components

TD40

	Part No:	11666097
	Designation	Injection pump tool
	Class	ENG
	Hook no	9999827
	Used when	Injection timing, setting

Machines/Components

TD40

	Part No:	11666098
	Designation	Injection pump tool
	Class	ENG
	Hook no	9988588
	Used when	Injection timing, setting

Machines/Components

TD40

	Part No:	11666099
	Designation	Tool
	Class	ENG
	Hook no	9999834
	Used when	Injection timing, checking

Machines/Components

TD40

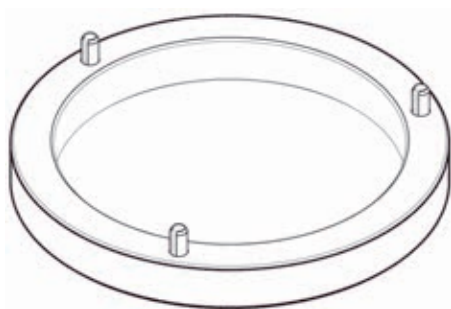
2. Measuring equipment



Part No:	9996848
Designation	Measuring tool
Class	BAS
Hook no	9988593
Used when	Fuel injection timing, checking and adjusting

Machines/Components

L120B, L70C, TD102, TD122, TD45, TD61, TD71, TD73



Part No:	88830123
Designation	Measuring sleeve
Class	AXL
Hook no	9999818
Used when	Pinion bearing preload, setting

Machines/Components

ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)



Part No:	9993617
Designation	Measuring sleeve
Class	AXL
Hook no	9999811
Used when	Pinion bearing, adjusting

Machines/Components

AH54, AH56F, AH63, AH64, AH64E, AH64K, AHW64N, AHW71, AHW71M, AHW71P, HTE300

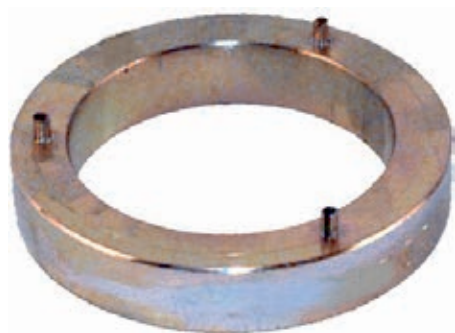


Part No:	9993619
Designation	Measuring sleeve
Class	AXL
Hook no	9999811
Used when	Pinion bearing, adjusting

Machines/Components

AH31

2. Measuring equipment



Part No:	9993683
Designation	Measuring sleeve
Class	TRA
Hook no	9999818
Used when	Bearing preload, adjusting

Machines/Components

FL1002, FL752, FL802, FL852, FL862, FL992



Part No:	9993697
Designation	Measuring sleeve
Class	AXL
Hook no	9999817
Used when	Pinion bearing, adjusting

Machines/Components

AWB10



Part No:	9993755
Designation	Ring
Class	AXL
Hook no	9999818
Used when	Pinion bearing, adjusting

Machines/Components

AHW71, AWB40



Part No:	9993798
Designation	Measuring sleeve
Class	AXL
Hook no	9999818
Used when	Pinion bearing, adjusting

Machines/Components

AWB20, AWB25, AWB30, AWB31

2. Measuring equipment



Part No:	9993810
Designation	Ring
Class	AXL
Hook no	9999818
Used when	Pinion bearing, adjusting

Machines/Components

AWB15



Part No:	9993819
Designation	Ring
Class	AXL
Hook no	9999818
Used when	Pinion bearing, adjusting

Machines/Components

AHW71, AWB40B, AWB41, AWB50



Part No:	9993820
Designation	Measuring sleeve
Class	AXL
Hook no	9999818
Used when	Pinion bearing, adjusting

Machines/Components

AH56E , AH56G, AH64, AH64D, AH64F, AH64J, AH64L, AHW64M, AHW64O, AHW71L, AHW71N, AHW71O, AHW71Q

2. Measuring equipment



Part No:	87913
Designation	Measuring tool
Class	TRA
Hook no	-----
Used when	Bearing setup cap for 8400 transmission bearing spacers

Machines/Components

G700 , G710B, G720B, G726B, G730B, G740B, G746B, G780B



Part No:	9993789
Designation	Gauge
Class	BAS
Hook no	9999826+9988573
Used when	Brake disc wear, checking

Machines/Components

AWB15, AWB40, L150C, L150C LB, L180C, L180C CO, L180C HL, L50B, L50C, L50C OR, L70C



Part No:	9993790
Designation	Gauge
Class	BAS
Hook no	9999834
Used when	Brake disc wear, checking

Machines/Components

L120C, L90C, L90C OR



Part No:	9993874
Designation	Gauge
Class	EXT
Hook no	9512762
Used when	Brake disc, adjusting wear indication

Machines/Components

L50D, L50E

2. Measuring equipment



Part No:	9993875
Designation	Gauge
Class	EXT
Hook no	9512762
Used when	Brake disc, adjusting wear indication

Machines/Components

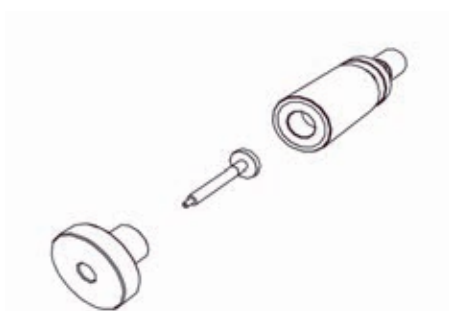
AWB20, AWB25, AWB40B, AWB41, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220F, L220G, L60E, L60F, L70D, L70E, L70F, L90D, L90D OR, L90E, L90F



Part No:	9993876
Designation	Gauge
Class	EXT
Hook no	9512762
Used when	Brake disc, adjusting wear indication

Machines/Components

AWB50, L220D, L220F, L220G



Part No:	88830164
Designation	Measuring tool
Class	EXT
Used when	Used when installing sensor to get correct shim

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)

2. Measuring equipment



Part No:	9993814
Designation	Retainer
Class	TRA
Hook no	9999812
Used when	Bearing preload, adjusting

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), FL1002, FL852, FL862, FL992, HT205, HT210, HT220, HTE1160, HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE300, HTE305 (22534, 22544), HTE840



Part No:	11666181
Designation	Adapter
Class	ENG
Hook no	-----
Used when	Setting of injection pump
Remark	M14

Machines/Components

D1.6A, D2.0A, D2.2A, EC27C, EC35C, ECR48C



Part No:	11666182
Designation	Adapter
Class	ENG
Hook no	-----
Used when	Setting of injection pump
Remark	M16

Machines/Components

D3.1A, D3.4A, D3.4D, EC55C, EC60C, EW60C



Part No:	14290000
Designation	Measuring equipment
Class	BAS
Used when	Measuring radial clearance of bearings
Remark	Dialgauge: 14023951

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW160B, EW200, EW230, EW230B

2. Measuring equipment



Part No:	14290241
Designation	Measuring tool
Class	BAS
Used when	Measuring axial and rotational clearance of slewing ring
Remark	Dialgauge: 14290247 / Point:14290248

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW140C, EW140D, EW150, EW150C, EW160C, EW160D, EW180C, EW180D, EW200, EW210C, EW210D, EW230, EW230B



Part No:	14360116
Designation	Screw
Class	BAS
Used when	Checking wear
Remark	M16x1,5 L=120

Machines/Components

EW140, EW160, EW160B



Part No:	8932-00290
Designation	Measuring plate
Class	TRA
Used when	Travel gearbox bearing shim, measuring
Remark	D=30 / T=15

Machines/Components

EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC220D L, EC220D LR, EC220D N, EC220D NL

2. Measuring equipment



Part No:	8933-00330
Designation	Measuring plate
Class	TRA
Used when	Travel gearbox bearing shim, measuring
Remark	D=280 / T=15

Machines/Components

EC240B CN, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL



Part No:	14599546
Designation	Measuring plate
Class	TRA
Used when	Track gearbox shim, measuring

Machines/Components

EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, ECR305C L



Part No:	14599552
Designation	Measuring plate
Class	TRA
Used when	Track gearbox shim, measuring

Machines/Components

EC140D L, EC140D LM, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, ECR235C L, ECR235D L, FC2121C

2. Measuring equipment



Part No:	14633156
Designation	Drift
Class	TRA
Used when	Track gearbox shim, measuring



Part No:	8933-00190
Designation	Measuring cover
Class	AXL
Used when	Measuring clutch, gearbox

Machines/Components
SE130 W-3, SE170 W-3



Part No:	14527848
Designation	Measuring plate
Class	HYD
Hook no	-----
Used when	Hydraulic pump bearing shim, measuring

Machines/Components
ECR58



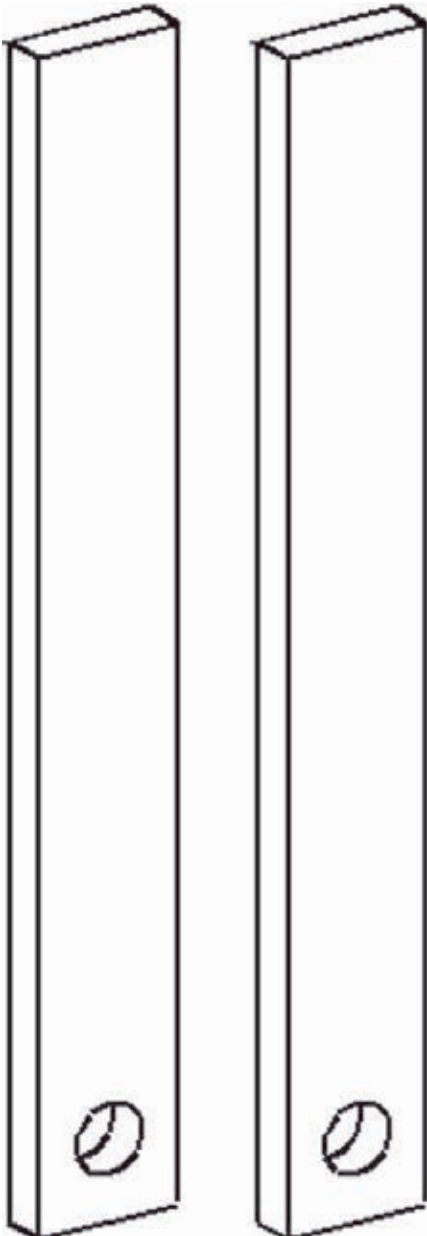
Part No:	14528286
Designation	Measuring tool
Class	HYD
Hook no	-----
Used when	Pump bearing shim, measuring

Machines/Components
ECR88

2. Measuring equipment

	Part No:	14528287
	Designation	Measuring tool
	Class	HYD
	Hook no	-----
	Used when	Pump bearing shim, measuring

Machines/Components
ECR88

	Part No:	88830079
	Designation	Measuring tool
	Class	AXL
	Used when	Used when checking/setting steering and steering angle
	Remark	Used together with 88830080

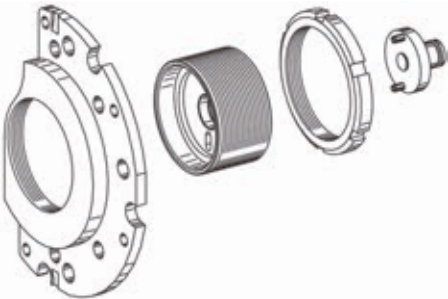
Machines/Components
MS-E3050, MS-E3060, MS-E3070

2. Measuring equipment

	Part No:	88830080
	Designation	Measuring tool
	Class	AXL
	Used when	Used when checkin/setting steering and steering angle
	Remark	Used together with 88830079

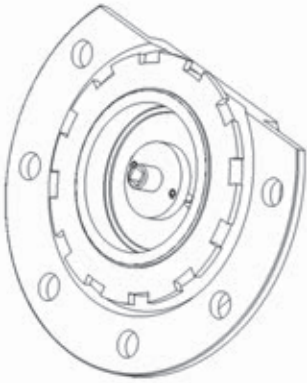
Machines/Components

MS-E3050, MS-E3060, MS-E3070

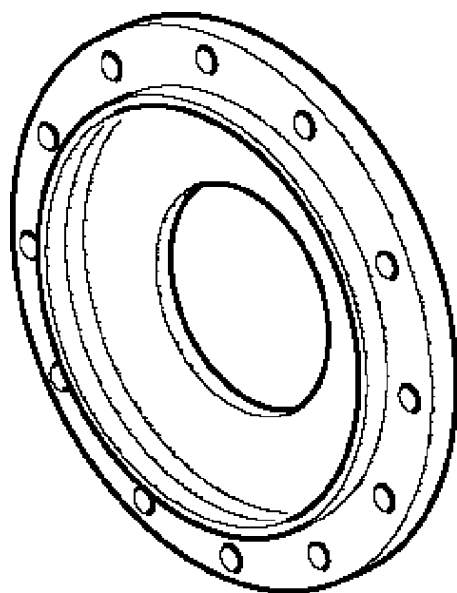
	Part No:	11668502
	Designation	Measuring tool
	Class	AXL
	Used when	Axle, reconditioning

Machines/Components

APLB745, APLB755, APLB755-HD

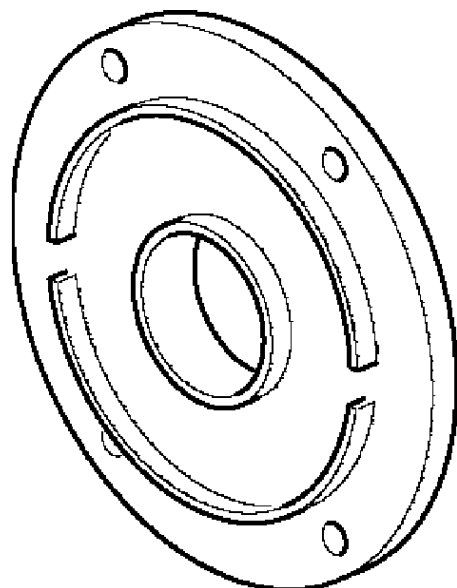
	Part No:	88830067
	Designation	Measuring tool
	Class	AXL
	Used when	Measuring tool for determining shim thickness
	Remark	Used for APR745

2. Measuring equipment



Part No:	11668504
Designation	Measuring tool
Class	TRA
Used when	Transmission, reconditioning

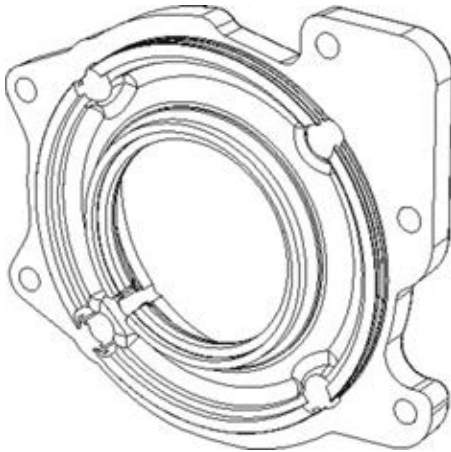
Machines/Components
EW160



Part No:	11668505
Designation	Measuring tool
Class	TRA
Used when	Transmission, reconditioning

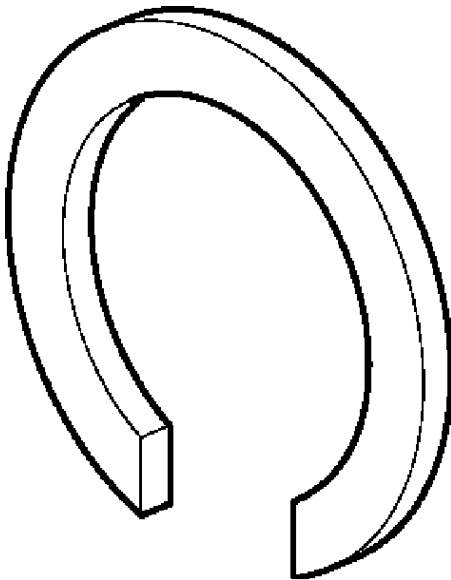
Machines/Components
EW140

2. Measuring equipment



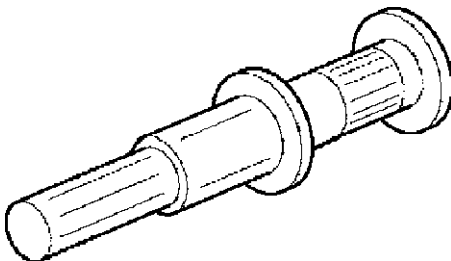
Part No:	88830092
Designation	Measuring cover
Class	TRA
Used when	Used for determine the clearance in clutch

Machines/Components
2HL270, 2HL290



Part No:	11668506
Designation	Measuring tool
Class	TRA
Used when	Transmission, reconditioning

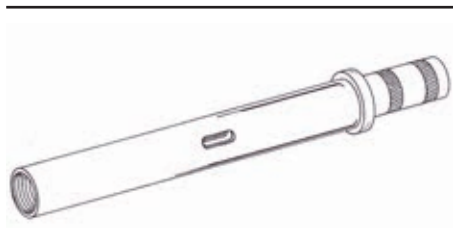
Machines/Components
EW140



Part No:	11668511
Designation	Measuring tool
Class	TRA
Used when	Transmission, reconditioning

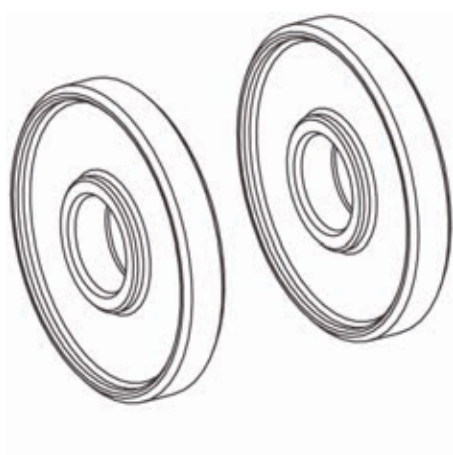
Machines/Components
EW140, EW160

2. Measuring equipment



Part No:	11668516
Designation	Measuring tool
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
APB755-HD



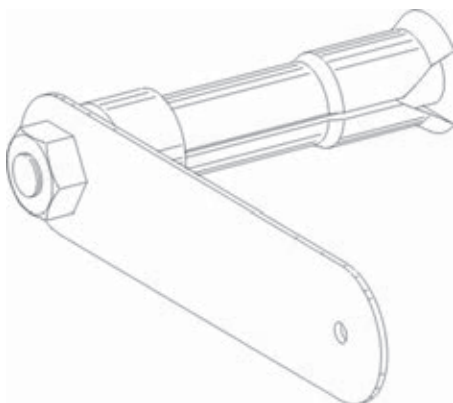
Part No:	11668517
Designation	Adjusting plate
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
APB755-HD



Part No:	11668518
Designation	Hydraulic clutch
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
EW160



Part No:	11668523
Designation	Measuring tool
Class	AXL
Used when	Axle, reconditioning

Machines/Components
EW140, EW160

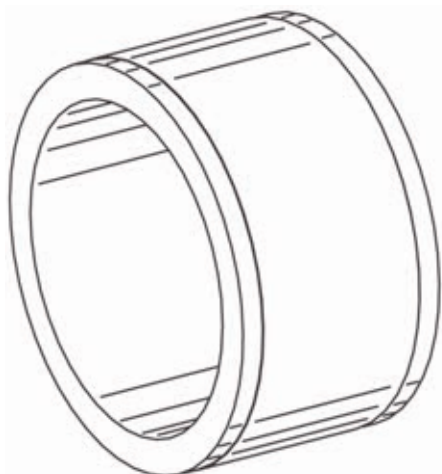
2. Measuring equipment



Part No:	2907341
Designation	Measuring tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

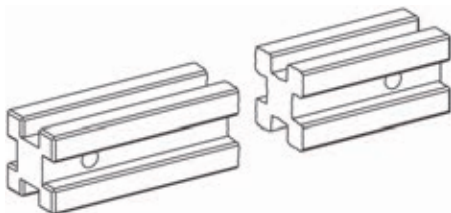
L40B, L45B



Part No:	2291179
Designation	Measuring tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

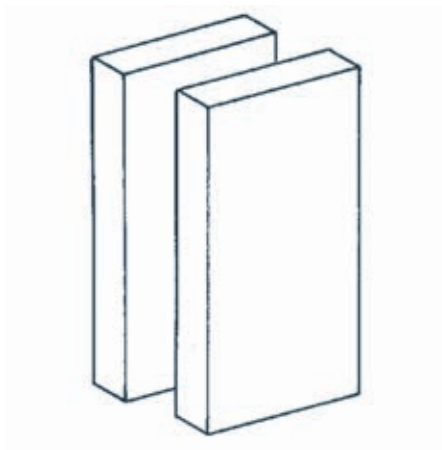
L40B, L45B



Part No:	2901982
Designation	Measuring tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B, L40B, L45B, MT-L3045



Part No:	2901983
Designation	Gauge block
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B, L40B, L45B

2. Measuring equipment



Part No:	9998583
Designation	Gauge
Class	EXT
Hook no	9989353
Used when	Unit injector, adjusting

Machines/Components

A35D, A35E, A35E FS, A40D, D12C, L180E, L220E, T450D



Part No:	88820003
Designation	Setting tool
Class	BAS
Hook no	-----
Used when	Checking and adjusting double rocker arm

Machines/Components

A35D, A35E, A35E FS, A40D, A40E, A40E FS, D12D, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L180E, L180F, L180F HL, L220E, L220F, PL4608, PL4611, T450D



Part No:	88820016
Designation	Setting tool
Class	BAS
Hook no	-----
Used when	Checking and adjusting double rocker arm

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, D9B, FB2800C, FBR2800C, G970, G976, G990

2. Measuring equipment



Part No:	9998678
Designation	Measuring tool
Class	ENG
Hook no	9999811
Used when	Piston height, measuring
Remark	This is same tool as 2902695 used in D3D manual

Machines/Components

D3D, D4D, D4E, D5D, D5E, D6D, D6E, D6H, D7D, D7E, D8H, EW145B



Part No:	11668405
Designation	Setting tool
Class	ENG
Hook no	-----
Used when	Injection timing, adjusting

Machines/Components

D4D

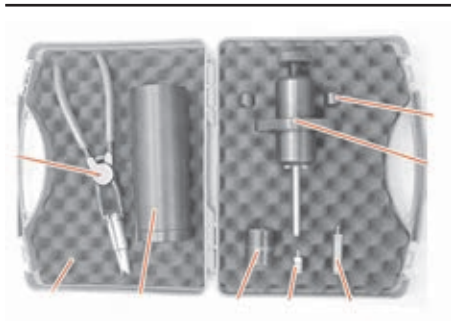


Part No:	9998685
Designation	Setting tool
Class	ENG
Hook no	-----
Used when	Injection timing, adjusting
Remark	9998685 Setting tool is used for engines with conventional roller tappets

Machines/Components

D5D

2. Measuring equipment



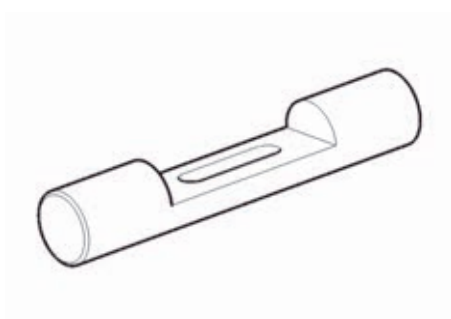
Part No:	11668408
Designation	Setting tool
Class	ENG
Hook no	-----
Used when	Injection timing, adjusting
Remark	11668408 Setting tool is used for engines with hydraulic roller tappets for reduction of white smoke. These engines are characterized by the EP-codes on the engine's ID-plate having a value between 700–799.

Machines/Components D5D



Part No:	11668305
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False differential box (disk)
Remark	Used together with 11668307

Machines/Components 26.16-A, 26.16-B, 26.22-A, 26.22-B



Part No:	11668307
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False differential box (pin)
Remark	Used together with 11668305

Machines/Components 26.16-A, 26.16-B, 26.22-A, 26.22-B



Part No:	11668312
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False pinion

Machines/Components 26.16-A, 26.16-B, 26.22-A, 26.22-B

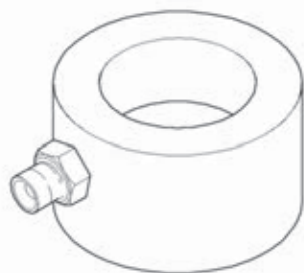
2. Measuring equipment



Part No:	11668321
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False pinion

Machines/Components

26.00-A, 28.32-H-A, 28.32-M-A, 28.43, 28.44



Part No:	11668343
Designation	Special tool
Class	TRA
Hook no	-----
Used when	Check of operation and adjustment for 4 WD shaft

Machines/Components

TLB1 4WD-A, TLB2 4WD-A, TLB2 4WD-B, TLB2 SD 4WD



Part No:	11668332
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False differential box

Machines/Components

BL71



Part No:	11668350
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False differential box

Machines/Components

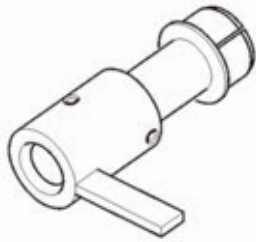
BL60, BL61, BL70

2. Measuring equipment



Part No:	11668353
Designation	Special tool
Class	AXL
Hook no	-----
Used when	False differential box

Machines/Components
26.00-A, 28.44



Part No:	11668351
Designation	Measuring tool
Class	AXL
Hook no	-----
Used when	Measuring backlash

Machines/Components
28.32-H-A, 28.32-M-A, 28.43



Part No:	11668352
Designation	Measuring tool
Class	AXL
Hook no	-----
Used when	Measuring pinion preload

Machines/Components
BL60, BL61, BL70



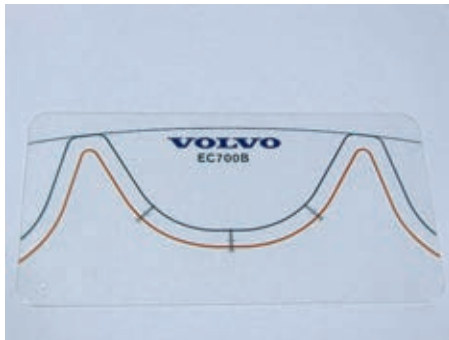
Part No:	11712316
Designation	Inspection tool
Class	BAS
Hook no	-----
Used when	Measuring of track chain, crawler excavator

Machines/Components

EC130, EC140B LC, EC140B LCM, EC150, EC150 LC, EC160B LC, EC160B NLC, EC180B LC, EC200, EC200B, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC220D L, EC220D LR, EC220D NL, EC230, EC230B, EC240B LC, EC240B LR, EC240B NLC, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300, EC330B LC, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC450, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC650,

2. Measuring equipment

EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, FB2800C, FBR2800C, PL3005D, PL4611, PL4808D



Part No:	14537336
Designation	Sprocket wear gauge
Class	BAS
Hook no	-----
Used when	Measuring of sprocket

Machines/Components
EC700B LC



Part No:	14623167
Designation	Sprocket wear gauge
Class	BAS
Used when	Measuring wear of sprocket
Remark	Replaces 14518497

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B LC, EC240B LR, EC240B NLC, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC55B, EC55C, EC60C, ECR58, ECR88



Part No:	9993854
Designation	Ring
Class	TRA
Hook no	9999817
Used when	Clutch shaft, installing

Machines/Components
8421H-19, 8421H-21, 8421H-5

2. Measuring equipment



Part No:	885811
Designation	Timing tool
Class	ENG
Hook no	-----
Used when	Angle-tightening of bolted joints
Remark	3/4"

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	885812
Designation	Timing tool
Class	ENG
Hook no	-----
Used when	Angle-tightening of bolted joints
Remark	1/2"

Machines/Components

BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D3.6D, D4E, D4H, D5E, D6E, D6H, D7E, D8H, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FC2121C, FC2421C, FC2924C, FC3329C, G930, G940, G946, G960, L110E, L110F, L120E, L120F, L40B, L45B, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PT220, SD110, SD115

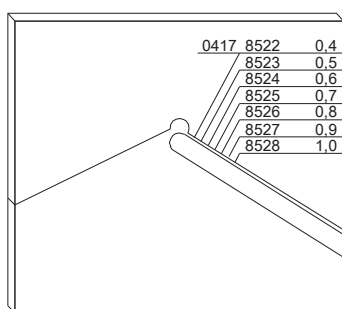


Part No:	9998679
Designation	Timing tool
Class	ENG
Used when	Rotating engine

Machines/Components

D4D, D5D, D7D

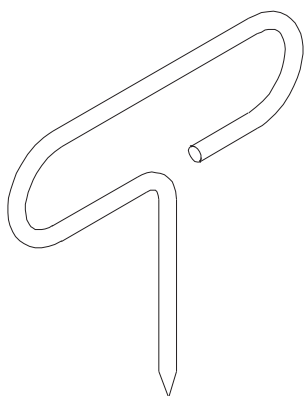
2. Measuring equipment



Part No:	2904638
Designation	Template
Class	ENG
Hook no	-----
Used when	Test template for injection pump gasket

M200870A

Machines/Components D3D



Part No:	2904637
Designation	Tool
Class	ENG
Hook no	-----
Used when	Locking wire for injection pump pivot lever

M200869A

Machines/Components D3D



Part No:	11715239
Designation	Tool
Class	ENG
Hook no	-----
Used when	Locking wire for injection pump pivot lever (Motorpal)

Machines/Components D3D

2. Measuring equipment



Part No:	11668582
Designation	Load sensor
Class	AXL
Hook no	-----
Used when	Measuring preload on clutch disc package

Machines/Components

APR70, APR70A, APR90, APR90A



Part No:	88820026
Designation	Gauge
Class	ENG
Hook no	9512762
Used when	Check-measuring piston ring grooves
Remark	Piston diameter 108 mm

Machines/Components

D5D, D5E, D7D, D7E



Part No:	88830065
Designation	Gauge
Class	ENG
Hook no	9512762
Used when	Check-measuring piston ring grooves
Remark	Piston diameter 101 mm

Machines/Components

D4D, D4E

2. Measuring equipment



Part No:	88830066
Designation	Gauge
Class	ENG
Hook no	9512762
Used when	Check-measuring piston ring grooves
Remark	Piston diameter 98 mm

Machines/Components

D6D, D6E, EW145B



Part No:	54542469
Designation	V-belt tension gauge
Class	BAS
Used when	Measuring belt tension

Machines/Components

ABG5770, ABG5820, ABG5870, ABG6820, ABG6870, ABG7820B, ABG8820B, MC105C, MC60C, MC70C, MC85C, MC95C, MCT110C, MCT70C, MCT85C, MCT95C, P7820C ABG (12762881), P8820C ABG (12763184)



Part No:	2902691
Designation	V-belt tension gauge
Class	BAS
Hook no	-----
Used when	Measuring V-belt tension

Machines/Components

ABG5770, ABG5820, ABG5870, ABG6820, ABG6870, ABG7820B, ABG8820B, DD25 (12759565), L20B, L20F, L25B, L25F, L30B, L35B, L40B, L45B, L45F, L50F, P7820C ABG (12762881), P8820C ABG (12763184)



Part No:	88830188
Designation	Measuring tool
Class	BAS
Used when	Measuring gap on sparkplugs

2. Measuring equipment

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	88830322
Designation	Measuring tool
Class	EXT
Used when	Fuel Return Line Tubing. For diagnosing air ingress into the fuel system.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

3. Tightening and Loosening tools



Part No:	9992634
Designation	Counterhold
Class	EXT
Hook no	9999811
Used when	Nut, removing and installing

Machines/Components

D4D, D4H, D6D, D6E, D6H, D8H, EW140B, EW140C, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C, HST75, HTE400, L110E, L110F, L120E, L120F, L50E, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	9993586
Designation	Gear segment
Class	EXT
Hook no	9999817
Used when	Pinion nut, removing and installing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A35D, A40, A40D, AH31, AH54, AH56F, AH63, AH64, AH64E, AH64K, AHW64N, AHW71, AHW71M, AHW71P, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB31, AWB40, AWB40B, AWB41, AWB50, EV80, FL650, FL652, FL752, HT200, HT201, HT205, HT210, HT220, L150E, L180E, L180E HL, L330E, L50E, P2390, PT1660



Part No:	9993587
Designation	Gear segment
Class	EXT
Hook no	9999817
Used when	Pinion nut, removing and installing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, AH54, FL650, FL652

3. Tightening and Loosening tools



Part No:	9993666
Designation	Gear segment
Class	EXT
Hook no	9999811
Used when	Pinion nut, tightening

Machines/Components
AH54



Part No:	9993767
Designation	Gear segment
Class	EXT
Hook no	9999818
Used when	Hub nut, removing and installing

Machines/Components
AWB20, AWB25, AWB40, AWB40B, AWB40C, AWB41, L150F, L150G, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G



Part No:	9993785
Designation	Gear segment
Class	EXT
Hook no	9999818
Used when	Hub nut, removing and installing

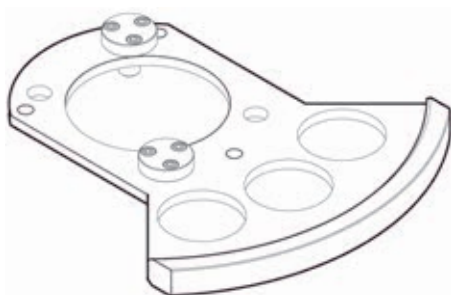
Machines/Components
AWB15, AWB20, AWB25, AWB30, AWB31, L110E, L110F, L120E, L120F, L330C, L330C LL, L330D, L330E, L60F, L70F, L90F



Part No:	9993847
Designation	Gear segment
Class	EXT
Hook no	9999817
Used when	Pinion nut, removing and installing

Machines/Components
A20C, A25C, A25C 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30E, A30F (37432), A35C, A35E, A35E FS, A40, A40E, A40E FS, AH56E, AH56G, AH63, AH64D, AH64F, AH64J, AH64L, AHW64M, AHW64O, AHW71, AHW71L, AHW71N, AHW71O, AHW71Q, FL650, FL652

3. Tightening and Loosening tools



Part No:	88830126
Designation	Gear segment
Class	EXT
Hook no	9999846
Used when	Nut removing, used together with suitable wrench.
Remark	Replaces 9993868

Machines/Components

A25D, A25E, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56I (56044), AH64Q (56041), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB41



Part No:	9993870
Designation	Gear segment
Class	EXT
Hook no	9999818
Used when	Pinion nut, removing and installing, Used together with 9993867

Machines/Components

AWB15, AWB20, AWB25, AWB30, AWB31, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220G, L60E, L70E, L90E



Part No:	9993590
Designation	Gear wheel
Class	BAS
Hook no	9989358
Used when	Engine crankshaft, rotating and Removing and installing pinion nut

Machines/Components

5350, A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH31, AH54, AH56E, AH56F, AH56G, AH56I (56044), AH63, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AH64Q (56041), AHW64M, AHW64N, AHW64O, AHW71, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B,

3. Tightening and Loosening tools

EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, EV80, FB2800C, FBR2800C, FL650, FL652, FL752, G710B, G720B, G726B, G730B, G740B, G746B, G780B, G970, G976, G990, HT200, HT201, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L110E, L110F, L120B, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330C, L330C LL, L330D, L330E, L350F, L50E, L60E, L60F, L70C, L70D, L70F, L90D, L90D OR, L90F, P2390, PL4608, PL4611, PL4808D, PT1660, T450D, TD103, TD122, TD61, TD63, TD71



Part No:	9993665
Designation	Spanner
Class	EXT
Hook no	9999827
Used when	Pinion nut, tightening

Machines/Components
AH54



Part No:	9993584
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=46 mm

Machines/Components
AH31, L60E



Part No:	88830041
Designation	Wrench
Class	AXL
Hook no	9999820
Used when	Hub nut, removing and installing
Remark	N=55

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), P2390

3. Tightening and Loosening tools



Part No:	9993581
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=60 mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40E, A40E FS, A40F (37535), A40F FS (37534), AH54, AH63, AHW71, FL650, FL652



Part No:	9993882
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=60 mm

Machines/Components

FL650



Part No:	9993881
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=65 mm

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E, AH56F, AH56G, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)

3. Tightening and Loosening tools



Part No:	9993583
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=70 mm



Part No:	9993585
Designation	Spanner
Class	EXT
Hook no	9999817
Used when	Pinion nut, removing and installing
Remark	N=75 mm

Machines/Components

A20C, A25C, A25C 4x4, A25E, A25E 4x4, A30C, A30E, A35C, A40, AH56F, AH63, AH64, AH64E, AH64K, AHW64N, AHW71, AHW71M, AHW71P, ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB10, AWB30, AWB40, AWB40B, AWB41, AWB50, FL650, FL752, L50E, PT1660



Part No:	9993867
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing, Used together with 9993868
Remark	N=75mm

Machines/Components

A25D, A25E, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E, AH56F, AH56G, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB20, AWB25, AWB40B, AWB41, AWB50, L110E, L110F, L120E, L120F, L150E, L180E, L220D, L220E, L220F, L60F, L70F, L90F

3. Tightening and Loosening tools



Part No:	9993786
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Hub nut, removing and installing
Remark	N=90

Machines/Components

AWB15, AWB30, AWB31



Part No:	9993768
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Hub nut, removing and installing
Remark	N=120mm

Machines/Components

AWB20, AWB25, AWB40, AWB40B, AWB40C, AWB41, L150F, L150G, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G



Part No:	9993582
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=2 5/8"

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, AH54, AH63, AWB20, AWB25, AWB30, AWB40, EV80, FL652, HT200, HT201, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L150E, L180E, L180E HL, L330E, L70E, L90E



Part No:	9993799
Designation	Spanner
Class	EXT
Hook no	9999820
Used when	Pinion nut, removing and installing
Remark	N=2 5/8"

Machines/Components

AWB31, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220G, L330C, L330C LL, L330D, L330E

3. Tightening and Loosening tools



Part No:	11668004
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Hub, Removal and installing
Remark	Hub nut 100

Machines/Components

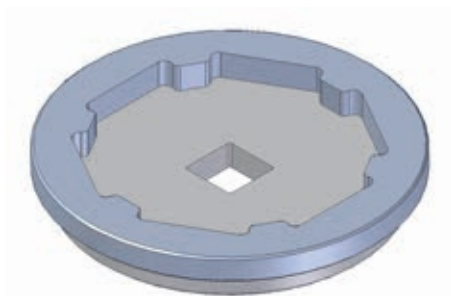
A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, AH54, AH56E, AH56F, AH56G, AH56H (56043), AH56I (56044), AH56J (56045), AH63, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AH64P (56040), AH64Q (56041), AH64R (56042), AHW64M, AHW64N, AHW64O



Part No:	11668005
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Hub, Removal and installing
Remark	Hub nut 130

Machines/Components

A40, A40D, AHW71, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, T450D

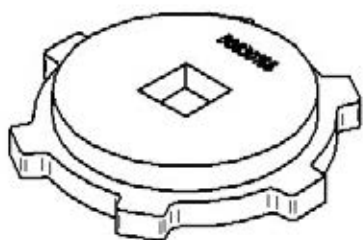


Part No:	88830033
Designation	Wrench
Class	EXT
Hook no	9999846
Used when	Removing and installing bearing cap on steering joint

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432)

3. Tightening and Loosening tools



Part No:	88830166
Designation	Wrench
Class	EXT
Used when	Removing and installing bearing cap on steering joint

Machines/Components

A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)



Part No:	11666129
Designation	Socket
Class	TRA
Hook no	9988587
Used when	Removing and installing ball bearing(s) nuts
Remark	4-KM7

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), HST75



Part No:	11666131
Designation	Socket
Class	TRA
Hook no	9999813
Used when	Power take-off, removing and installing
Remark	KM13

Machines/Components

HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305

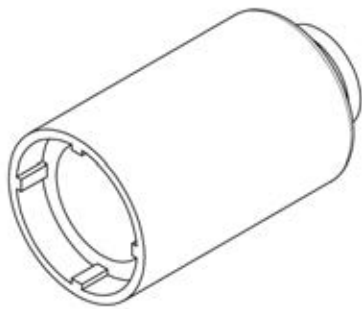


Part No:	11666137
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Removing / installing nut for centre bearing

Machines/Components

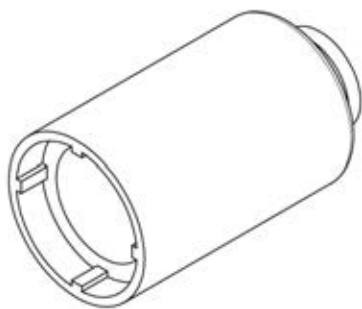
L20B, L20F, L25B, L25F

3. Tightening and Loosening tools



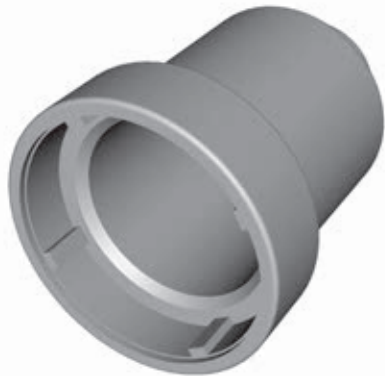
Part No:	11666148
Designation	Socket
Class	TRA
Hook no	-----
Used when	Ball bearing nut on clutch shaft, removing and installing
Remark	2 KM9 Extra long

Machines/Components
HTE1160, HTE840



Part No:	11666149
Designation	Socket
Class	TRA
Hook no	-----
Used when	Ball bearing nut on clutch shaft, removing and installing
Remark	2 KM10 Extra long

Machines/Components
HTE1160, HTE840



Part No:	88830113
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Removing and installing slotted nuts
Remark	4-N7, Inner diameter 53 mm

Machines/Components
P7110, PF6110

3. Tightening and Loosening tools



Part No:	88830114
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Removing and installing slotted nuts
Remark	9-N14, Inner diameter 93 mm

Machines/Components

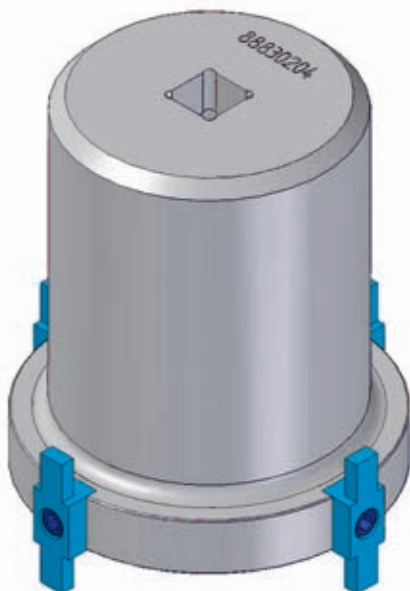
P7110, PF6110



Part No:	88830162
Designation	Socket
Class	BAS
Hook no	9999813
Used when	Special socket used when adjusting tension on asphalt chain
Remark	Size 30mm, length 180mm

Machines/Components

ABG5770, ABG5820, ABG5870, ABG6820, ABG6870, ABG7820B, ABG8820B, P7820C ABG (12762881), P8820C ABG (12763184)

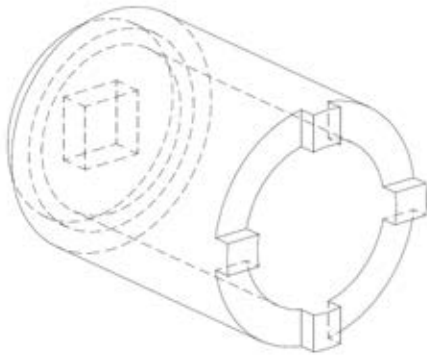


Part No:	88830204
Designation	Socket wrench
Class	TRA
Used when	When removing/installing converter

Machines/Components

HTE400

3. Tightening and Loosening tools



Part No:	13877840
Designation	Socket wrench
Class	EXT



Part No:	88830192
Designation	Socket wrench
Class	EXT
Hook no	9988588
Used when	Disassemble the X3 solenoids
Remark	27 mm



Part No:	88830121
Designation	Socket
Class	EXT
Hook no	9999813
Used when	Removing and installing slotted nuts
Remark	B-5855, Inner diameter 213 mm

Machines/Components
PF6110, PF6160, PF6170



Part No:	9996682
Designation	Socket
Class	ENG
Hook no	9999811
Used when	Timing gears, removing and installing

Machines/Components
TD103

3. Tightening and Loosening tools



Part No:	18516
Designation	Socket
Class	AXL
Hook no	-----
Used when	Front wheel, bearing, locknut

Machines/Components

G710B, G720B, G726B, G730B, G740B



Part No:	29859
Designation	Socket wrench
Class	TRA
Hook no	-----
Used when	8400 transmission clutch pack shaft

Machines/Components

G700 , G710B, G720B, G726B, G730B, G740B, G746B, G780B

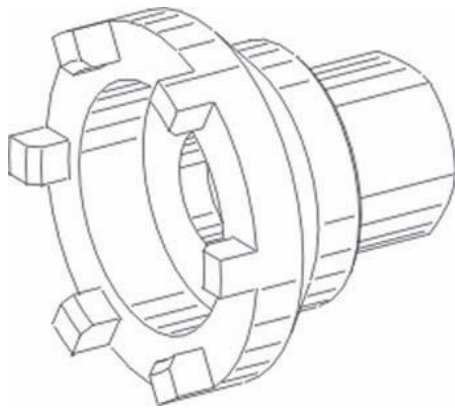


Part No:	9993855
Designation	Wrench
Class	TRA
Hook no	9999819
Used when	Nut clutch shaft, installing

Machines/Components

8421H-21

3. Tightening and Loosening tools



Part No:	11668513
Designation	Socket wrench
Class	TRA
Used when	Transmission, reconditioning

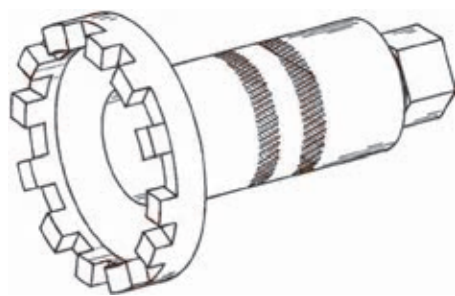
Machines/Components
EW140



Part No:	88830273
Designation	Socket wrench
Class	HYD
Used when	Track grea box nut adjusting

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC650, ECR145C L, ECR145D L

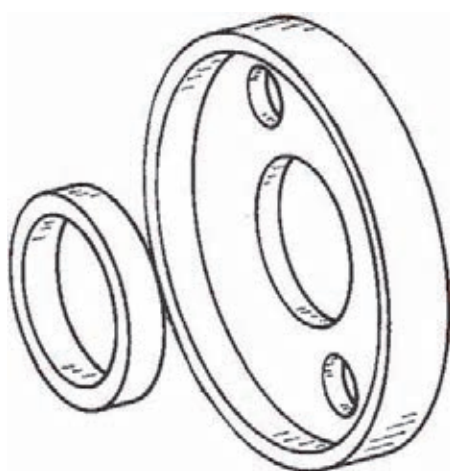


Part No:	11668514
Designation	Socket wrench
Class	AXL
Used when	Axle, reconditioning

Machines/Components

APB745, APB755, APLB745, APLB755, APLB755-HD

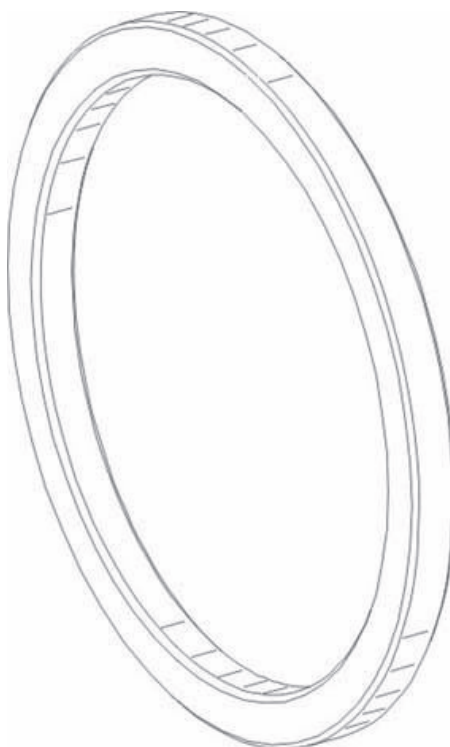
3. Tightening and Loosening tools



Part No:	11668524
Designation	Centring disc
Class	AXL
Used when	Axle, reconditioning

Machines/Components

APB745, APB755, APLB745, APLB755, APLB755-HD, MS-E3050, MS-E3060, MS-E3070

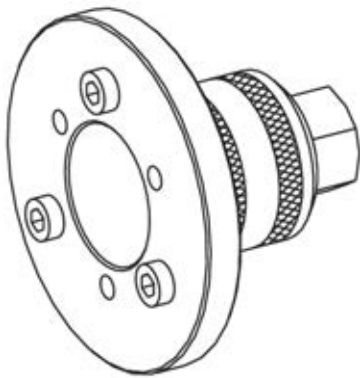


Part No:	11668526
Designation	Centring ring
Class	AXL
Used when	Axle, reconditioning

Machines/Components

EW140, EW160

3. Tightening and Loosening tools



Part No:	11668574
Designation	Socket wrench
Class	AXL
Hook no	-----
Used when	Used for slotted nut on stub shaft

Machines/Components

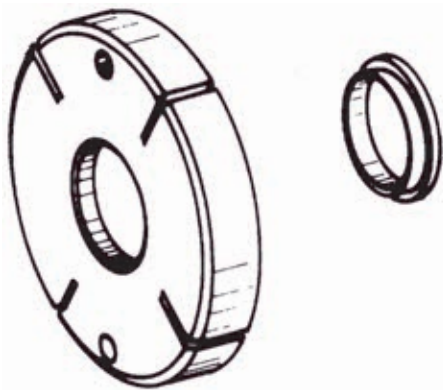
AV230, MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070



Part No:	11668576
Designation	Grab sleeve
Class	AXL
Hook no	-----
Used when	Removal of hub bearings
Remark	Used together with 2288756

Machines/Components

AV230

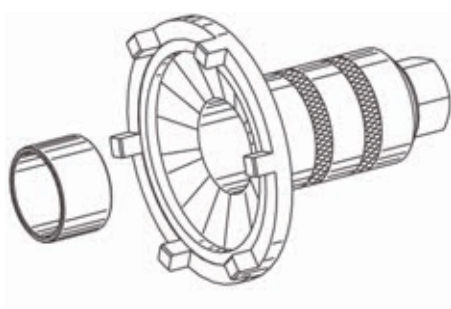


Part No:	11668525
Designation	Centring disc
Class	AXL
Used when	Axle, reconditioning

Machines/Components

APB745, APB755

3. Tightening and Loosening tools



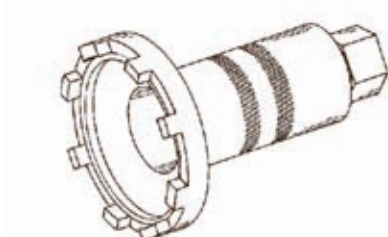
Part No:	11668528
Designation	Socket wrench
Class	AXL
Used when	Axle, reconditioning
Remark	Replaces 11668515

Machines/Components
APB745, APB755



Part No:	11668529
Designation	Socket wrench
Class	AXL
Hook no	-----
Used when	Axle, reconditioning, removing and installing hub nut
Remark	Used together but 11668524 and 11668526

Machines/Components
EW180B



Part No:	11668560
Designation	Socket wrench
Class	AXL
Hook no	-----
Used when	Axle reconditioning, removing and installing hub nut

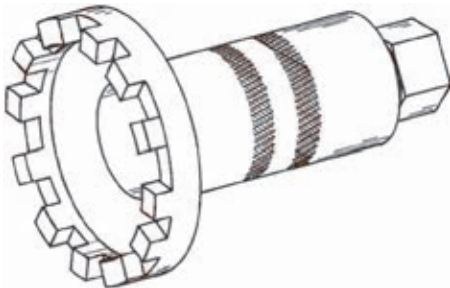
Machines/Components
APB745, APB755, APB755-HD, APLB755-HD

3. Tightening and Loosening tools



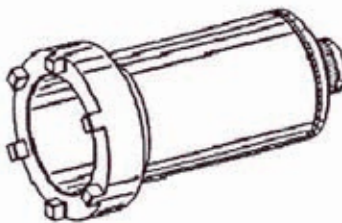
Part No:	11668561
Designation	Centring disc
Class	AXL
Hook no	-----
Used when	Axle reconditioning, removing and installing hub nut
Remark	Used together with 11668560

Machines/Components
APB755-HD, APLB755-HD



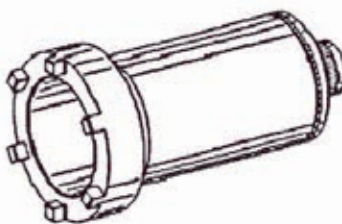
Part No:	11668557
Designation	Socket wrench
Class	AXL
Hook no	-----
Used when	Removing and installing hub nut

Machines/Components
APB755-HD



Part No:	11668578
Designation	Slotted nut socket
Class	AXL
Hook no	-----
Used when	Removal and installation of slotted nut on output shaft
Remark	M75 x 1.5

Machines/Components
APR70



Part No:	11668579
Designation	Slotted nut socket
Class	AXL
Hook no	-----
Used when	Removal and installation of slotted nut on output shaft
Remark	M85 x 1.5

Machines/Components
APR70A, APR90, APR90A

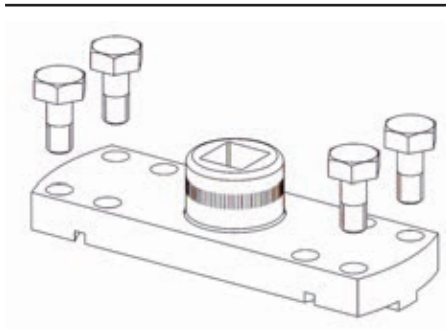
3. Tightening and Loosening tools



Part No:	11668580
Designation	Counterhold
Class	AXL
Hook no	-----
Used when	Locking of output shaft

Machines/Components

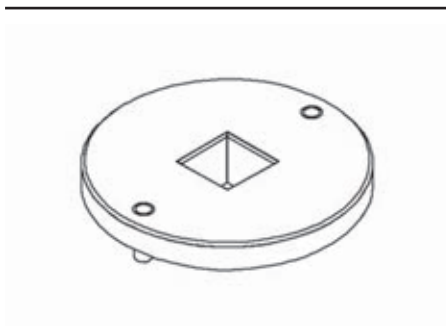
APR70, APR70A, APR90, APR90A



Part No:	88830120
Designation	Fixture
Class	AXL
Used when	Checking of break-away torque of multi disc brake

Machines/Components

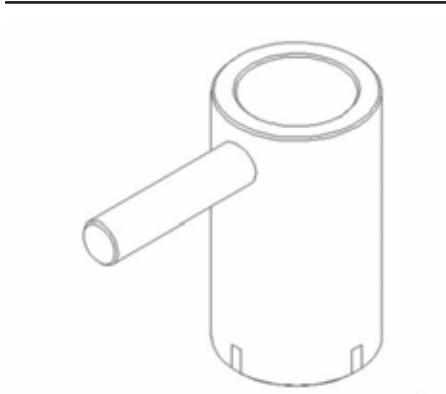
APR90A



Part No:	11668300
Designation	Wrench
Class	AXL
Hook no	-----
Used when	Used for ring nut

Machines/Components

26.16-A, 26.16-B, 26.22-A, 26.22-B



Part No:	11668303
Designation	Wrench
Class	AXL
Hook no	-----
Used when	Used for ring nut, pinion

Machines/Components

26.00-A, 26.16-A, 26.16-B, 26.22-A, 26.22-B, 28.32-H-A, 28.32-M-A, 28.43, 28.44

3. Tightening and Loosening tools



Part No:	11668311
Designation	Wrench
Class	AXL
Hook no	-----
Used when	Used when locking pinion

Machines/Components

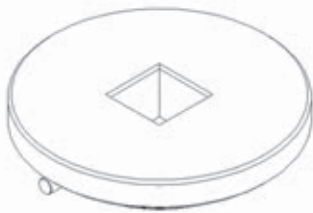
28.32-H-A, 28.32-M-A, 28.43



Part No:	11668325
Designation	Wrench
Class	AXL
Hook no	-----
Used when	Used for locking pinion

Machines/Components

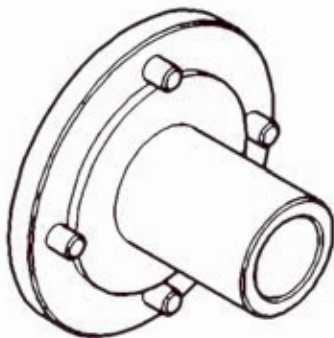
26.00-A, 26.16-A, 26.16-B, 26.22-A, 26.22-B, 28.44



Part No:	11668327
Designation	Wrench
Class	AXL
Hook no	-----
Used when	Used for ring nut (central housing)

Machines/Components

28.32-H-A, 28.32-M-A, 28.43

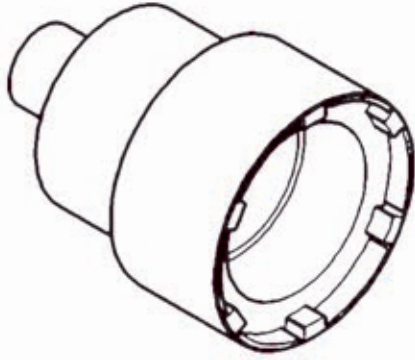


Part No:	11668387
Designation	Socket wrench
Class	AXL
Hook no	-----
Used when	Differential lock nut, installing

Machines/Components

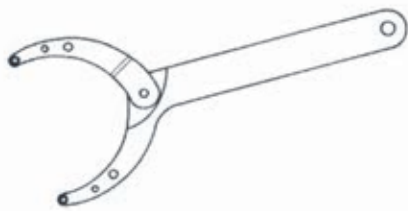
26.00-A, 28.44

3. Tightening and Loosening tools



Part No:	11668388
Designation	Slotted nut socket
Class	AXL
Hook no	-----
Used when	Hub nut, installing

Machines/Components
26.00-A, 28.44



Part No:	5235708
Designation	Counterhold
Class	AXL
Used when	Prevent rotation

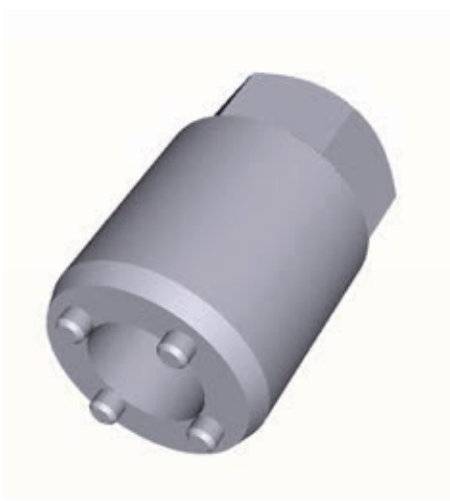
Machines/Components
MT-L3045



Part No:	8920-00470
Designation	Socket
Class	EXT
Used when	Axle, spindle nut

Machines/Components
SE170 W-3

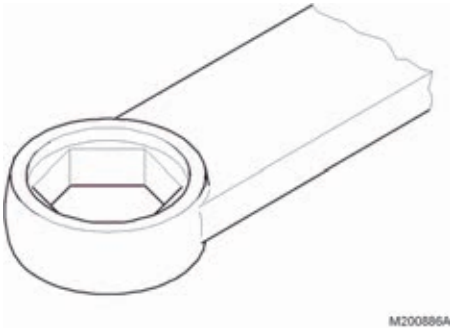
3. Tightening and Loosening tools

	Part No:	88830109
	Designation	Counterhold
	Class	TRA
	Hook no	9988588
	Used when	Counterhold for installing/removing converter with lock-up function

Machines/Components
HTL220, HTL305

	Part No:	8934-00300
	Designation	Lever
	Class	AXL
	Used when	Holding of flange, axle

Machines/Components
SE170 W-3

 M2008864	Part No:	2289395
	Designation	Counterhold
	Class	ENG
	Used when	Counterhold for camshaft gear

Machines/Components
D3D, L20B, L20F, L25B, L25F, L30B, L35B

	Part No:	88830206
	Designation	Counterhold
	Class	EXT
	Used when	Deutz engine
	Remark	Work on Deutz engine

Machines/Components
D4H, D6H, D8H, EW140D, EW160D, EW180D, EW210D, L45G, L50G, P7820C ABG (12762881), P8820C ABG (12763184)

3. Tightening and Loosening tools



Part No:	9993354
Designation	Counterhold
Class	TRA
Hook no	9999811
Used when	Centre screw in torque converter, removing and installing

Machines/Components

HT130, HT131, HT132, HT200, HT201, HT90, L110E, L120E



Part No:	9993849
Designation	Counterhold
Class	TRA
Hook no	9988591
Used when	Power take-off, removing and installing

Machines/Components

HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305



Part No:	9996306
Designation	Counterhold
Class	AXL
Hook no	9999811
Used when	Pinion nut, removing and installing

Machines/Components

AH54



Part No:	9993732
Designation	Hook spanner
Class	EXT
Hook no	9988587
Used when	Tip cylinder A35

Machines/Components

A35

3. Tightening and Loosening tools



Part No:	88830181
Designation	Counterhold wrench
Class	AXL
Used when	Check operability of differential lock
Remark	Axle APR70A upgrade



Part No:	14514176
Designation	Slotted nut socket
Class	EXT
Used when	Travel gearbox nut, removing and installing
Remark	D=360 / L=220

Machines/Components

EC235C LD, EC235C NL, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL



Part No:	8933-00280
Designation	Slotted nut socket
Class	TRA
Used when	Travel gearbox nut, removing and installing
Remark	D=309 / L=149

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140D LM, ECR145D L

3. Tightening and Loosening tools

	<table><tr><td>Part No:</td><td>14526533</td></tr><tr><td>Designation</td><td>Slotted nut socket</td></tr><tr><td>Class</td><td>TRA</td></tr><tr><td>Hook no</td><td>-----</td></tr><tr><td>Used when</td><td>Travel gearbox nut, removing and installing</td></tr></table>	Part No:	14526533	Designation	Slotted nut socket	Class	TRA	Hook no	-----	Used when	Travel gearbox nut, removing and installing
Part No:	14526533										
Designation	Slotted nut socket										
Class	TRA										
Hook no	-----										
Used when	Travel gearbox nut, removing and installing										
Machines/Components ECR58, ECR88 	<table><tr><td>Part No:</td><td>14550035</td></tr><tr><td>Designation</td><td>Wrench</td></tr><tr><td>Class</td><td>HYD</td></tr><tr><td>Hook no</td><td>-----</td></tr><tr><td>Used when</td><td>Hydraulic boom cylinder, repacking</td></tr></table>	Part No:	14550035	Designation	Wrench	Class	HYD	Hook no	-----	Used when	Hydraulic boom cylinder, repacking
Part No:	14550035										
Designation	Wrench										
Class	HYD										
Hook no	-----										
Used when	Hydraulic boom cylinder, repacking										
Machines/Components EC700B LC, EC700C L, EC700C LD 	<table><tr><td>Part No:</td><td>14550038</td></tr><tr><td>Designation</td><td>Wrench</td></tr><tr><td>Class</td><td>HYD</td></tr><tr><td>Hook no</td><td>-----</td></tr><tr><td>Used when</td><td>Hydraulic dipper arm cylinder, repacking</td></tr></table>	Part No:	14550038	Designation	Wrench	Class	HYD	Hook no	-----	Used when	Hydraulic dipper arm cylinder, repacking
Part No:	14550038										
Designation	Wrench										
Class	HYD										
Hook no	-----										
Used when	Hydraulic dipper arm cylinder, repacking										
Machines/Components EC700B LC, EC700C L, EC700C LD											

3. Tightening and Loosening tools

	Part No:	14550042
	Designation	Wrench
	Class	HYD
	Hook no	-----
	Used when	Hydraulic bucket cylinder, repacking

Machines/Components

EC700B LC, EC700C L, EC700C LD

	Part No:	14550044
	Designation	Wrench
	Class	HYD
	Hook no	-----
	Used when	Hydraulic ME bucket cylinder, repacking
	Remark	ME (Mass excavation)

Machines/Components

EC700B LC, EC700C L, EC700C LD

	Part No:	8934-00160
	Designation	Wrench
	Class	AXL
	Used when	Gear adjusting, axle

Machines/Components

SE130 W-3

	Part No:	8940-00400
	Designation	Socket
	Class	HYD
	Used when	Check valve, replacing

Machines/Components

EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, ECR145D L

3. Tightening and Loosening tools

	Part No:	14632430
	Designation	Socket wrench
	Class	HYD
	Used when	Hydraulic cylinder piston, loosening and tightening
	Remark	D=150 mm

	Part No:	14560122
	Designation	Socket wrench
	Class	HYD
	Hook no	-----
	Used when	Hydraulic cylinder piston, loosening and tightening
	Remark	D=125

Machines/Components

EC330B LC, EC330C L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD

	Part No:	14560123
	Designation	Socket wrench
	Class	HYD
	Hook no	-----
	Used when	Hydraulic cylinder piston, loosening and tightening
	Remark	D=105

Machines/Components

EC200B, EC210B, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C L, EC360C NL, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D L, ECR235C L, ECR305C L

3. Tightening and Loosening tools



Part No:	14560124
Designation	Socket wrench
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder piston, loosening and tightening
Remark	D=95

Machines/Components

EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC180B LC, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC220D L, EC235C LD, EC235C NL, EC235D NL, ECR235C L, EW145B



Part No:	14560125
Designation	Socket wrench
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder piston, loosening and tightening
Remark	D=85

Machines/Components

EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC180B LC, EC180C L, EC180D L



Part No:	14560126
Designation	Socket wrench
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder piston, loosening and tightening
Remark	D=75

Machines/Components

EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LR,

3. Tightening and Loosening tools

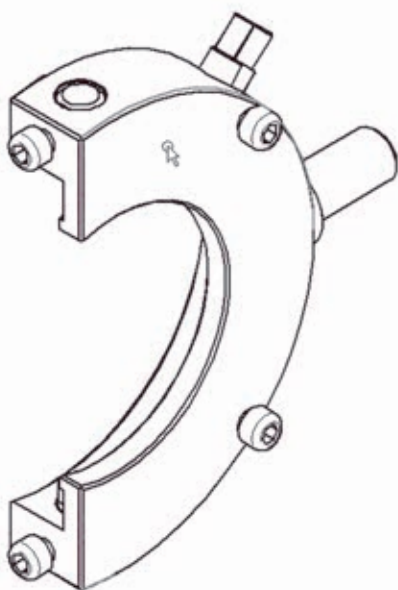
EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LR, EC290C NL, EC55B, EC55C, EC60C, ECR145C L, ECR58, ECR88, EW145B, EW55B, EW60C



Part No:	14560127
Designation	Socket wrench
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder piston, loosening and tightening
Remark	D=65

Machines/Components

EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C



Part No:	88830106
Designation	Hook spanner
Class	HYD
Used when	Loosening / tightening hydraulic cylinder pistons
Remark	Replaces 11668534, 11668540 and 11668541

Machines/Components

EC160, EC160 W, EW140, EW160



Part No:	14360003
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC130, EC150, EC150 LC, EW130, EW150

3. Tightening and Loosening tools



Part No:	14360005
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC130, EC150, EC150 LC, EW130, EW150



Part No:	14360014
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC280, EC340, EC390



Part No:	14360017
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC130, EC150, EC150 LC, EW130, EW150



Part No:	14360019
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC130, EC150, EC150 LC, EW130, EW150

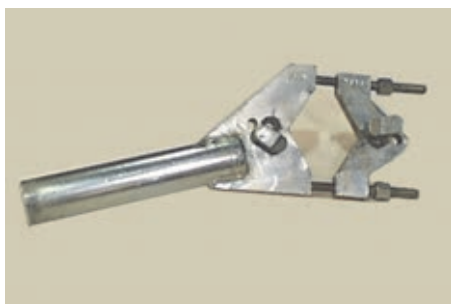
3. Tightening and Loosening tools



Part No:	14360021
Designation	Socket
Class	BAS
Used when	Non-return valve, removing, installing

Machines/Components

EC130, EC150, EC150 LC, EW130, EW150



Part No:	9993724
Designation	Socket wrench
Class	HYD
Hook no	9999819
Used when	Loosening / tightening hydraulic cylinder pistons

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534)



Part No:	89130
Designation	Wrench
Class	HYD
Hook no	-----
Used when	Cylinder overhauling
Remark	3 in., 3 1/2 in., 4 in., 4 1/2 in.

Machines/Components

G700 , G710B, G720B, G726B, G730B, G740B, G746B, G780B, L110F, L120F, L60F, L70F, L90F

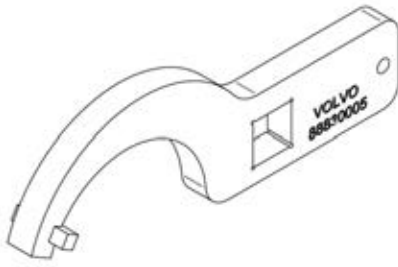


Part No:	89131
Designation	Wrench
Class	HYD
Hook no	-----
Used when	Cylinder overhauling
Remark	5 in.

Machines/Components

G700 , G710B, G720B, G726B, G730B, G740B, G746B, G780B

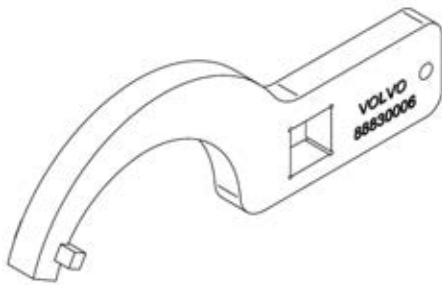
3. Tightening and Loosening tools



Part No:	88830005
Designation	Wrench
Class	HYD
Hook no	9999846
Used when	Reconditioning of hydraulic cylinder
Remark	Size: 4"

Machines/Components

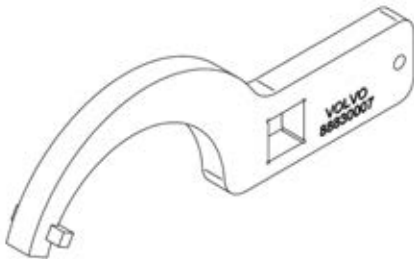
G930, G940, G946, G960, G970, G976, G990



Part No:	88830006
Designation	Wrench
Class	HYD
Hook no	9999846
Used when	Reconditioning of cylinder
Remark	Size: 4.6"

Machines/Components

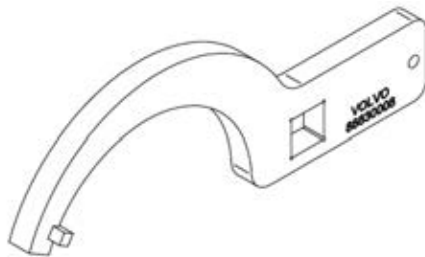
G930, G940, G946, G960, G970, G976, G990



Part No:	88830007
Designation	Wrench
Class	HYD
Hook no	9999846
Used when	Reconditioning of cylinder
Remark	Size: 5"

Machines/Components

G930, G940, G946, G960, G970, G976, G990

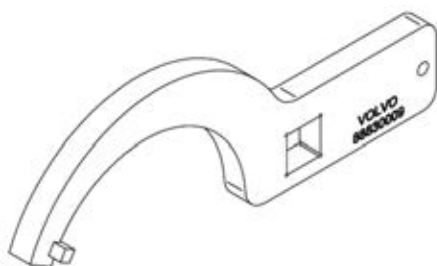


Part No:	88830008
Designation	Wrench
Class	HYD
Hook no	9999846
Used when	Reconditioning of cylinder
Remark	Size: 6.5"

Machines/Components

G930, G940, G946, G960, G970, G976, G990

3. Tightening and Loosening tools



Part No:	88830009
Designation	Wrench
Class	HYD
Hook no	9999846
Used when	Reconditioning of cylinder
Remark	Size: 6"

Machines/Components

G930, G940, G946, G960, G970, G976, G990



Part No:	88830318
Designation	Spanner
Class	EXT
Used when	Use to access the inner mounting nut of the fuel injection pump.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	14360061
Designation	Socket
Class	BAS
Used when	Plug, removing
Remark	Is replacing 14160529

Machines/Components

EC280, EC340, EC390



Part No:	9993205
Designation	Spanner
Class	TRA
Hook no	9989353
Used when	Stator wheel in torque converter, removing and installing

Machines/Components

HT130, HT132

3. Tightening and Loosening tools



Part No:	9993577
Designation	Spanner
Class	EXT
Hook no	9512762
Used when	Solenoids gear selector valve, removing and installing

Machines/Components
HT90



Part No:	88830105
Designation	Wrench
Class	EXT
Used when	Installing and removing coupling
Remark	Used when installing hose rupture valve

Machines/Components
BL71, BL71 PLUS



Part No:	9993741
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Proppeller shaft, removing and installing
Remark	N=15 mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, L110E, L110F, L120E, L120F, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	9993742
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Proppeller shaft, removing and installing
Remark	N=16 mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, L120C, L120D, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L90D, L90D OR

3. Tightening and Loosening tools



Part No:	9996785
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Propeller shaft, removing and installing
Remark	N=17 mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9998002
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Proppeller shaft, removing and installing
Remark	N=18mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9993743
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Proppeller shaft, removing and installing
Remark	N=19 mm

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, HT90



Part No:	9996369
Designation	Socket
Class	EXT
Hook no	9989353
Used when	Proppeller shaft, removing and installing
Remark	N=9/16"

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, L120B



Part No:	88830167
Designation	Oil filter wrench
Class	BAS
Hook no	9988587
Used when	Removing and installing filters
Remark	Diameter 50mm - 250mm

3. Tightening and Loosening tools

Machines/Components

DD100, DD100HF, EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, ECR145D L, ECR235D L, P4370B, PL3005D, PL4808D, PT220, PT220RH, SD110



Part No:	9996671
Designation	Oil filter wrench
Class	BAS
Hook no	9988593
Used when	Removing filter
Remark	94 mm

Machines/Components

D5D, DD100, DD100HF, EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, ECR145C L, ECR235C L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FC2121C, FC2421C, FC2924C, FC3329C, L110E, L120E, L150E, L180E, L180E HL, L180F HL, L220E, L50E, L60E, L70E, L90E, PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), SD110



Part No:	9996672
Designation	Oil filter wrench
Class	BAS
Hook no	9988593
Used when	Removing filter
Remark	108 mm

Machines/Components

D16E, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR305C L, EW145B, FB2800C, FBR2800C, L110F, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330E, L350F, L60F, L70F, L90F, PL4608, PL4611, PL4808D

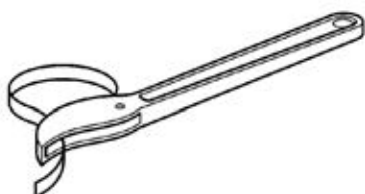
3. Tightening and Loosening tools



Part No:	9996864
Designation	Oil filter wrench
Class	BAS
Hook no	9988593
Used when	Removing filter
Remark	120 mm

Machines/Components

A40E, A40E FS, HTE305 (22566), HTL305, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L220G, L330E, L350F, L60F, L70F, L90E, L90F



Part No:	9999179
Designation	Oil filter wrench
Class	BAS
Used when	Removing filter



Part No:	11666167
Designation	Disassembly tool
Class	BAS
Hook no	9999811
Used when	Removing water trap

Machines/Components

EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, L110E, L110F, L120E, L120F, L150E, L150F, L150G,

3. Tightening and Loosening tools

L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L330E, L350F, L60E, L60F, L70E, L70F, L90E, L90F, PL3005D, PL4608, PL4611, PL4808D



Part No:	88830032
Designation	Wrench
Class	EXT
Hook no	-----
Used when	Removing and installing gas filling valve

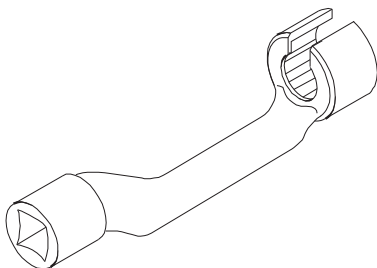
Machines/Components
HB100, HB150



Part No:	88800070
Designation	Spanner
Class	ENG
Hook no	9999835
Used when	Used for injection pipes
Remark	17 mm

Machines/Components

D4H, D6H, D8H, EW140D, EW160D, EW180D, EW210D, L45G, L50G, P7820C ABG (12762881), P8820C ABG (12763184), SD115



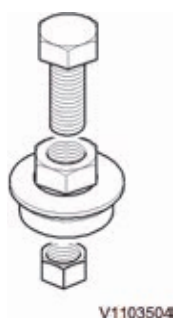
Part No:	2904636
Designation	Spanner
Class	ENG
Hook no	-----
Used when	Used for injection lines
Remark	14mm

M200873A

Machines/Components

D3D, L20B, L20F, L25B, L25F, L30B, L35B

3. Tightening and Loosening tools



Part No:	88830309
Designation	Injection pump tool
Class	EXT
Used when	Use to remove the gear from the fuel injection pump shaft.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

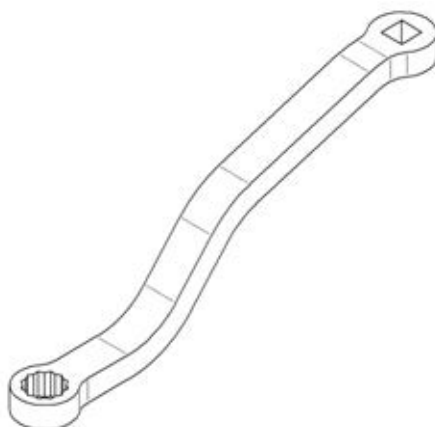


Part No:	2906246
Designation	Tool
Class	ENG
Hook no	-----
Used when	used for toothed belt guard locking screw

M201049

Machines/Components

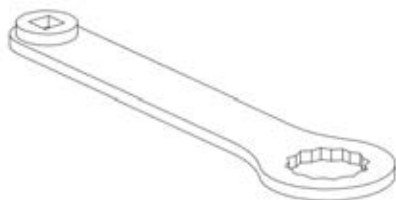
D3D, L20B, L20F, L25B, L25F, L30B, L35B



Part No:	88830179
Designation	Wrench
Class	EXT
Hook no	9999811
Used when	Torque of turbo
Remark	14 mm

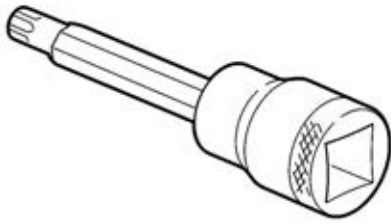
Machines/Components

D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	13877139
Designation	Wrench
Class	EXT

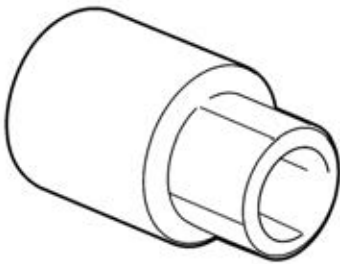
3. Tightening and Loosening tools



Part No:	1159080
Designation	Sleeve
Class	EXT
Hook no	9989353
Used when	Removing pulley on alternator
Remark	Used together with 9809753

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)



Part No:	9809753
Designation	Sleeve
Class	EXT
Hook no	9999811
Used when	Removing pulley on alternator
Remark	Used together with 1159080

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)



Part No:	14546451
Designation	Torque multiplier
Class	TRA
Hook no	-----
Used when	Track gearbox overhaul
Remark	Weight: 170 Kg,

Machines/Components

APR90A, EC700B HR, EC700B LC, EC700C L, EC700C LD

4. Lifting equipment



Part No:	11668007
Designation	Standard Jack Single
Class	EXT
Used when	Machine, lift
Remark	15 000 kg / 33 000 lbs

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB15, AWB40B, AWB40C, L110E, L110F, L120C, L120E, L120F, L150C, L150C LB, L150E, L150F, L150G, L180C, L180C CO, L180C HL, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L350F, L50C, L50C OR, L60E, L60F, L70C, L70E, L70F, L90C, L90C OR, L90E, L90F, T450D



Part No:	11668008
Designation	Standard Jack Double
Class	EXT
Used when	Machine, lift
Remark	15 000 kg / 33 000 lbs

Machines/Components

A20C, A25C, A25C 4x4, A25F (37214), A30C, A30F (37432), A35C, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40E, A40E FS, A40F (37535), A40F FS (37534)



Part No:	11668010
Designation	Wheel forklift
Class	EXT
Used when	Wheels, removing and installing
Remark	Max 2000Kg / 4400 lbs

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), ABG5770, ABG5870, ABG6870, AWB40B, AWB40C, BL60, BL60B, BL61,

4. Lifting equipment

BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L350F, L60E, L60F, L70E, L70F, L90E, L90F, PF6160, PF6170, SD110, SD116DX, SD116F, SD200DX, SD200F, SD45D, SD45F, SD70D, SD77F, T450D



Part No:	9998547
Designation	Lifting tool
Class	EXT
Hook no	9999818
Used when	Lifting heavy components
Remark	Max: 2000 Kg / 4,400 lbs

Machines/Components

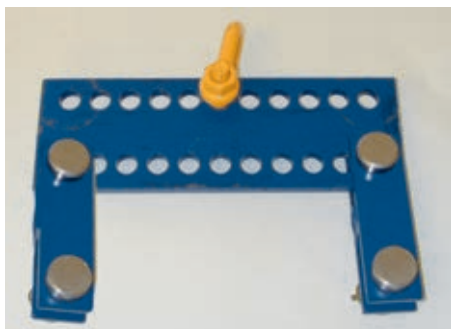
A25D, A25D 4x4, A30D, A35D, A40D, D12C, D12D, D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D4E, D4H, D5E, D6D, D6E, D6H, D7E, D9A, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, G710B, G720B, G726B, G730B, G740B, G746B, G780B, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180E, L180E HL, L180F, L180F HL, L180G, L220E, L220F, L30B, L330E, L350F, L35B, L50E, L60E, L60F, L70E, L70F, L90E, L90F, MT2000, P7820C ABG (12762881), P8820C ABG (12763184), SD116DX, SD116F, SD200DX, SD200F



Part No:	11668012
Designation	Lifting tool
Class	EXT
Used when	Transmission, removing and installing
Remark	Max: 500 kg / 1100 lbs

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), T450D

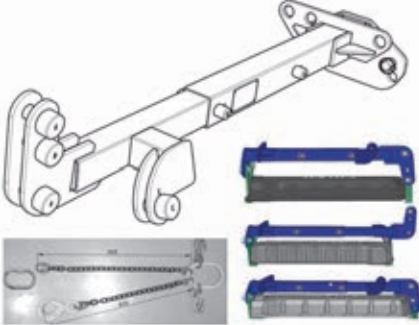


Part No:	11668016
Designation	Lifting tool
Class	EXT
Used when	Engine, removing and installing
Remark	Max.: 2,500 kg / 5,510 lbs. Where applicable, this tool is used instead of 9996052

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, D12C, D12D, D9A, D9B, L150E

4. Lifting equipment

	Part No:	88830051
	Designation	Lifting tool
	Class	EXT
	Used when	Lifting engine
	Remark	Max. load: 2,400 kg / 5,290 lbs. Chains in the picture are supplied with the tool.

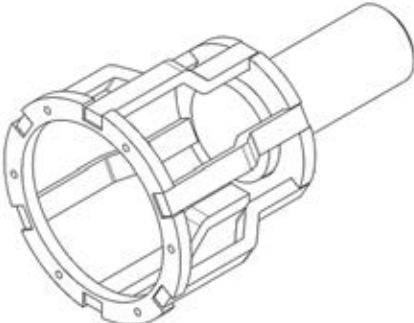
Machines/Components

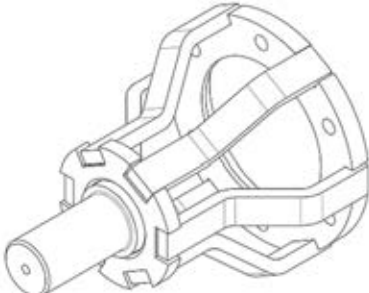
A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), T450D

	Part No:	88830095
	Designation	Lifting tool
	Class	EXT
	Used when	Lifting drum
	Remark	Use together with adapter 88830140, or 88830141, or 88830142

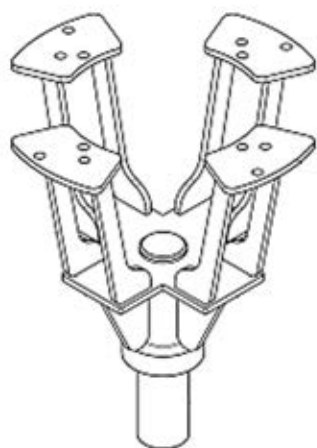
Machines/Components

MT2000

	Part No:	88830140
	Designation	Adapter
	Class	EXT
	Used when	Lifting drum
	Remark	Use together with lifting tool 88830095

	Part No:	88830141
	Designation	Adapter
	Class	EXT
	Used when	Lifting drum
	Remark	Use together with lifting tool 88830095

4. Lifting equipment



Part No:	88830142
Designation	Adapter
Class	EXT
Used when	Lifting drum
Remark	Use together with lifting tool 88830095



Part No:	88830201
Designation	Lifting tool
Class	EXT
Used when	Lifting drum
Remark	Max Load 914 Kg

Machines/Components
SD110



Part No:	88830202
Designation	Lifting tool
Class	EXT
Used when	Lifting drum drive plate
Remark	Max load: 1435 Kg

Machines/Components
SD110, SD110C



Part No:	88830203
Designation	Lifting tool
Class	EXT
Used when	Lifting drum eccentric
Remark	Max load: 2049 Kg

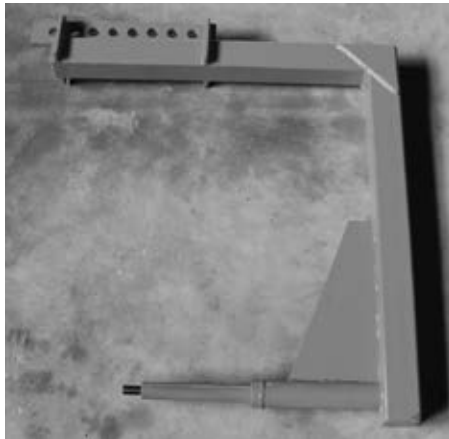
Machines/Components
SD110

4. Lifting equipment



Part No:	88830222
Designation	Lifting tool
Class	EXT
Used when	To lift drum on COA machine
Remark	Max load 785kg

Machines/Components
DD100, DD90A



Part No:	88830223
Designation	Lifting tool
Class	EXT
Used when	To lift drum on COA machine
Remark	Max load 2175kg

Machines/Components
DD100



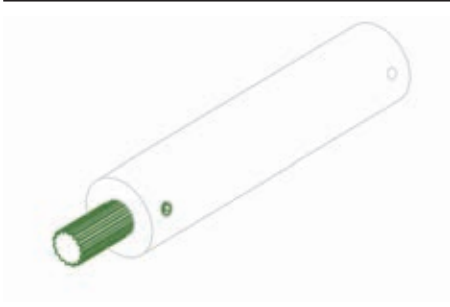
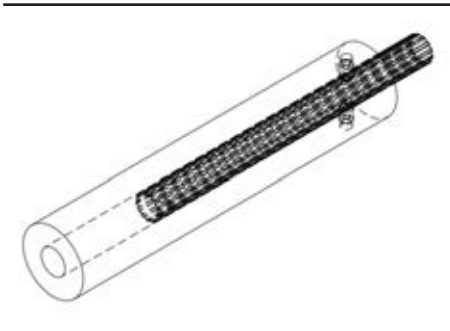
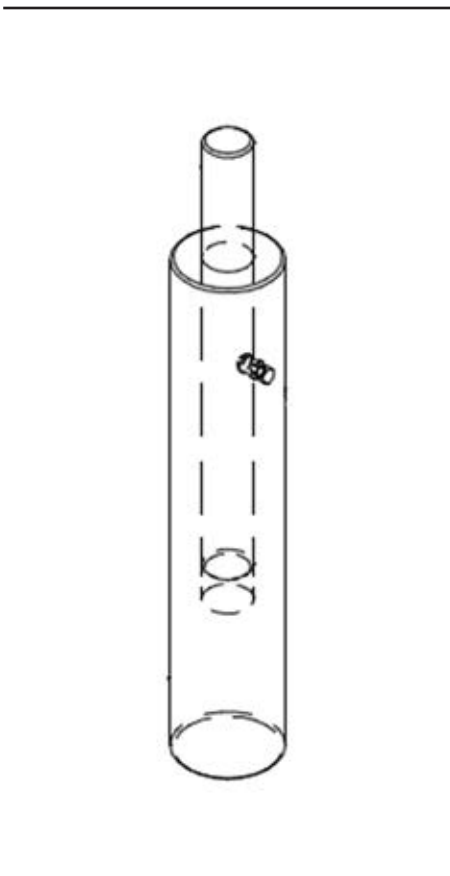
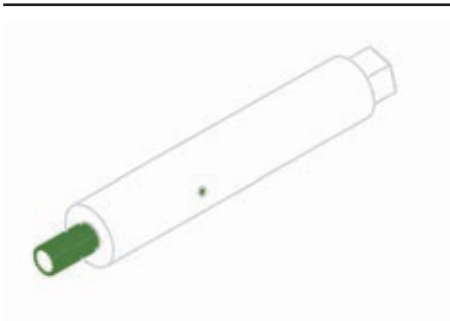
Part No:	88830224
Designation	Lifting tool
Class	EXT
Used when	To lift drum on COA machine
Remark	Max load 409kg

Machines/Components
DD100, DD90A

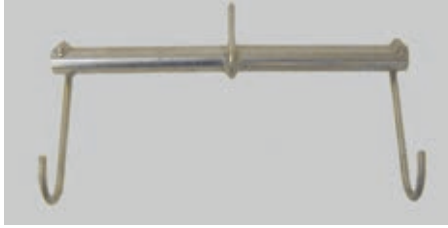


Part No:	88830218
Designation	Guide
Class	EXT
Used when	To keep the eccentric shaft level during removal and installation.
Remark	Use together with lifting tool 88830095

4. Lifting equipment

	Part No: 88830219 Designation Guide Class EXT Used when To keep the eccentric shaft level during removal and installation. Remark Use together with lifting tool 88830095
	Part No: 88830220 Designation Guide Class EXT Used when To keep the eccentric shaft level during removal and installation. Remark Use together with lifting tool 88830095
	Part No: 88830221 Designation Guide Class EXT Used when To keep the eccentric shaft level during removal and installation. Remark Use together with lifting tool 88830095
	Part No: 88830226 Designation Guide Class EXT Used when To keep the eccentric shaft level during removal and installation. Remark Use together with lifting tool 88830095

4. Lifting equipment



Part No:	9998264
Designation	Lifting tool
Class	ENG
Hook no	9988591
Used when	Camshaft

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, L150G, L180G, L220G, T450D



Part No:	9990185
Designation	Lifting tool
Class	EXT
Used when	Rocker arm bracket
Remark	Replaces 9998255 and 9990046

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D



Part No:	88880003
Designation	Bracket
Class	EXT
Hook no	-----
Used when	Lift of double rocker arm bridge, used together with 9990185
Remark	Delivered as kit with 12 pcs.

4. Lifting equipment

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D



Part No:	9998257
Designation	Lifting tool
Class	EXT
Hook no	9999818
Used when	Engine, removing and installing

Machines/Components

L180E, L180E HL, L220E

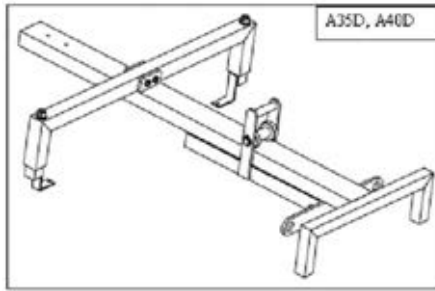


Part No:	11668014
Designation	Lifting equipment
Class	EXT
Used when	Hub, removing and installing
Remark	Max: 500 kg / 1100 lbs

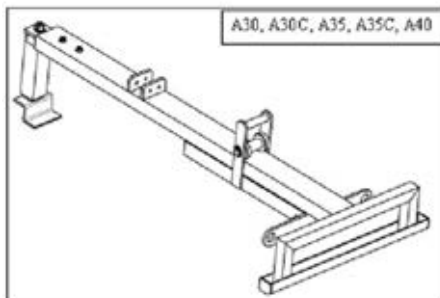
Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E, AH56F, AH56G, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, T450D

4. Lifting equipment



Part No:	11668015
Designation	Lifting tool
Class	EXT
Used when	Transmission, removing and installing
Remark	Max: 500 kg / 1100 lbs



Machines/Components

5350, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), T450D



Part No:	11668017
Designation	Lifting tool
Class	EXT
Used when	Transfer case, removing and installing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)

4. Lifting equipment



Part No:	9993621
Designation	Lifting eye right
Class	EXT
Hook no	9999817
Used when	Transmission, removing and installing

Machines/Components
L150D, L180D, L180D HL



Part No:	9993622
Designation	Lifting eye left
Class	EXT
Hook no	9999817
Used when	Transmission, removing and installing

Machines/Components
L150D, L180D, L180D HL



Part No:	9993681
Designation	Bracket right
Class	EXT
Hook no	9999811
Used when	Transmission, removing and installing

Machines/Components
5350, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), T450D

4. Lifting equipment



Part No:	9993682
Designation	Bracket left
Class	EXT
Hook no	9999811
Used when	Transmission, removing and installing

Machines/Components

5350, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), T450D



Part No:	11668011
Designation	Lifting tool
Class	EXT
Used when	Transmission, removing and installing
Remark	Max: 500 kg / 1100 lbs

Machines/Components

A30C, A35C, A35D, A40, A40D, T450D

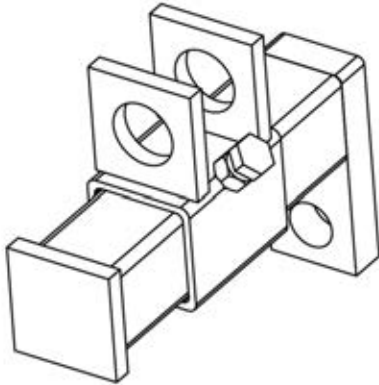


Part No:	9996239
Designation	Lifting chain
Class	EXT
Hook no	9999817
Used when	Components lifting

Machines/Components

8421H-19, 8421H-21, 8421H-5, A20C, A25C, A25C 4x4, A30C, A35C, A40, AH31, AH45, AH63, AHW71, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, D10B, D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EV80, FL1002, FL752, FL852, FL862, FL992, HT200, HT201, HT205, HT210, HT220, HTE300, HTE305 (22534, 22544), L110F, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220F, L220G, L50E, L60F, L70F, L90F, PT1506, PT1560, PT1562, PT1563, PT1660, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TD103, TD122, TD164, TD40

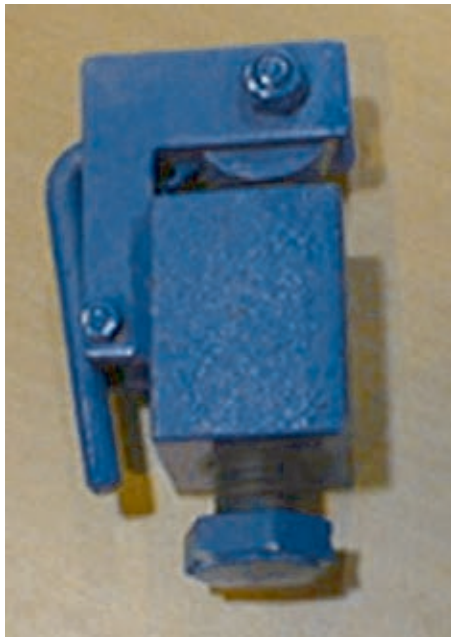
4. Lifting equipment



Part No:	88830163
Designation	Lifting tool
Class	EXT
Used when	Hub, removing and installing
Remark	Max: 500 Kg / 1100 lbs Replaces 9993802

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A40D, AH56H (56043), AH56I (56044), AH56J (56045), AH64P (56040), AH64Q (56041), AH64R (56042), AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), APR70, APR70A, APR90, APR90A, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330D, L330E, L350F, L50D, L50E, L60E, L60F, L70D, L70E, L70F, L90D, L90E, L90F, P2390, T450D



Part No:	11668009
Designation	Bogie Blocks
Class	EXT
Used when	Bogie axle, Locking for lift

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25E, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A40, A40D, T450D

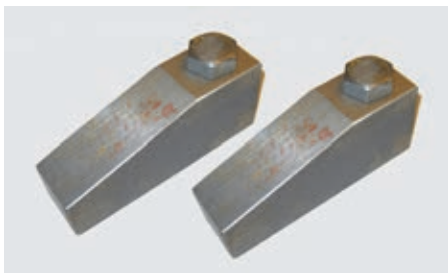
4. Lifting equipment



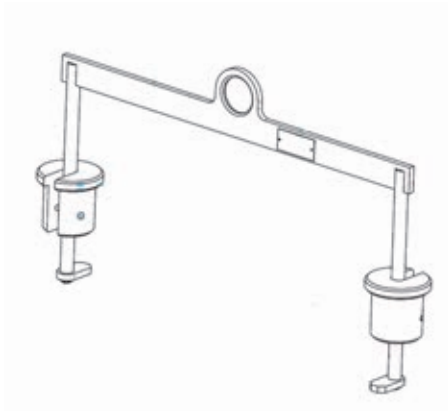
Part No:	11668018
Designation	Bogie Blocks
Class	EXT
Used when	Bogie axle, Locking for lift

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35F (37142), A40E, A40F (37535)



Part No:	88830049
Designation	Bogie Blocks
Class	EXT
Used when	Bogie axle, blocking when lifting
Remark	Delivered as kit with 2 pcs.



Part No:	88830043
Designation	Lifting tool
Class	AXL
Hook no	9999846
Used when	Brake piston, removing and installing

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), P2390

4. Lifting equipment



Part No:	9993807
Designation	Lifting tool
Class	TRA
Hook no	9988586
Used when	Converter
Remark	Max: 40 kg / 88 lbs

Machines/Components

HT93, HT95, HTE110, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE305 (22566), HTL220, HTL305



Part No:	9993616
Designation	Installation tool
Class	TRA
Hook no	9988590
Used when	Clutch shaft, removing and installing

Machines/Components

HT205, HT210, HT220, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE840, HTL220, HTL305

4. Lifting equipment

	Part No:	8932-00210
	Designation	Lifting eye
	Class	HYD
	Used when	Removing spherical bearing, travel motor

Machines/Components

EC140 LCM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC180C L, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240B CN, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, ECR145C L, SE210 LC-3

	Part No:	8932-00250
	Designation	Lifting eye
	Class	HYD
	Used when	Removing spherical bearing, travel motor

Machines/Components

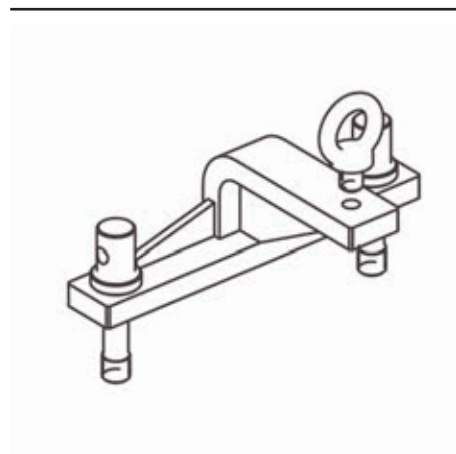
SE210 LC-3

	Part No:	14527713
	Designation	Lifting tool
	Class	TRA
	Hook no	-----
	Used when	Travel gearbox gear, lifting

Machines/Components

ECR58, ECR88

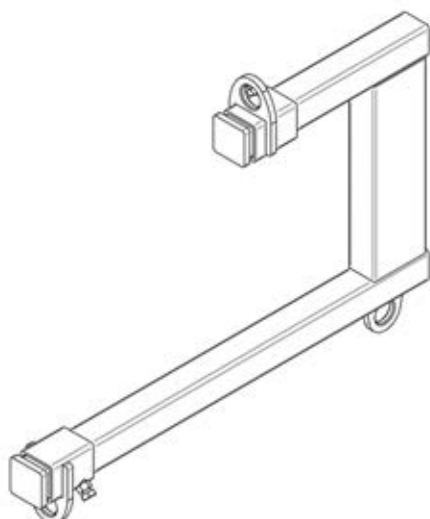
4. Lifting equipment



Part No:	14609309
Designation	Lifting device
Class	TRA
Used when	Travel gearbox, overhaul
Remark	Max load 60Kg (0.013 lbs)

Machines/Components

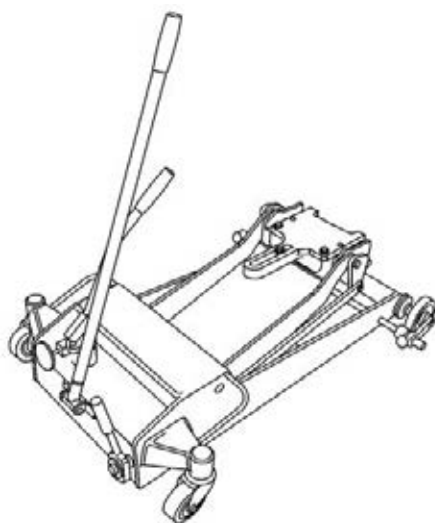
EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, PL4608, PL4611, PL4808D



Part No:	11668023
Designation	Lifting tool
Class	EXT
Hook no	-----
Used when	Engine, removing and installing
Remark	Max. 500 kg (1100 lb)

Machines/Components

MC110, MC110B, MC60B, MC70B, MC80, MC80B, MC90, MC90B

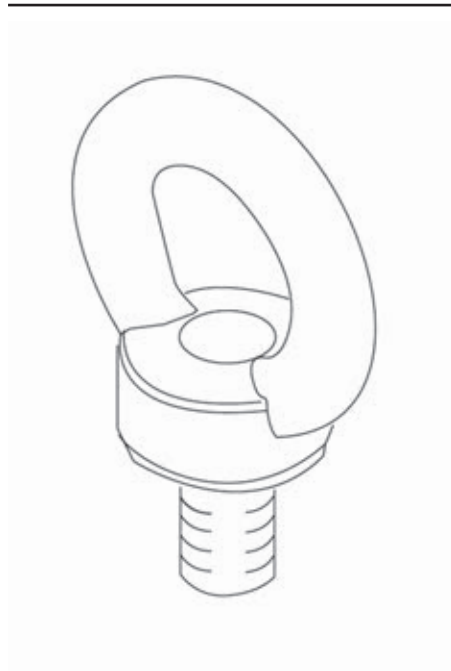


Part No:	9999954
Designation	Lifting equipment
Class	EXT
Hook no	-----
Used when	Lifting components
Remark	Max. load: 500 kg (1100 lb)

4. Lifting equipment

Machines/Components

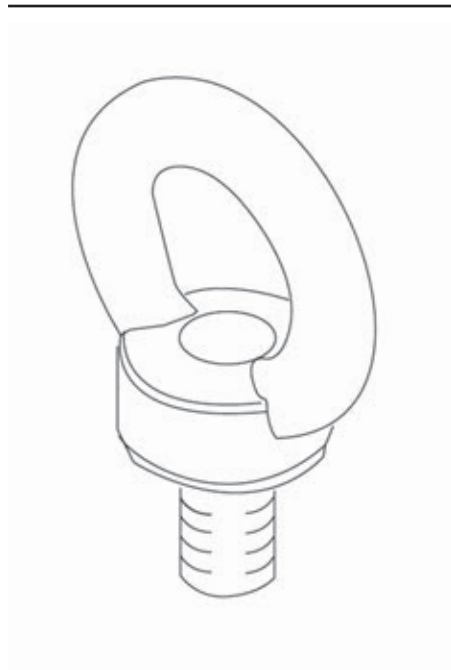
A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), BL60B, BL61B, BL70B, BL71B, T450D



Part No:	11666172
Designation	Lifting eye
Class	HYD
Hook no	9999818
Used when	Lifting hydraulic hammer
Remark	M28 x 1,5

Machines/Components

HB200, HB300, HB440, L20B, L20F, L25B, L25F



Part No:	11666175
Designation	Lifting eye
Class	HYD
Hook no	9999818
Used when	Lifting hammer components
Remark	M24 x 2

Machines/Components

EC200B, EC210B, HB1100, HB1400, HB1700

4. Lifting equipment



Part No:	11666176
Designation	Lifting eye
Class	HYD
Hook no	9999818
Used when	Lifting hammer components
Remark	M27 x 2

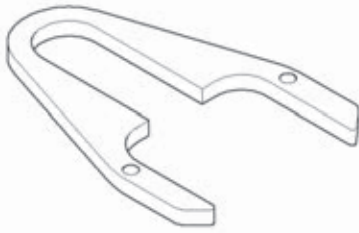
Machines/Components
HB2400



Part No:	11666177
Designation	Lifting eye
Class	HYD
Hook no	9999818
Used when	Lifting hammer components
Remark	M33 x 2

Machines/Components
HB3200, HB3800

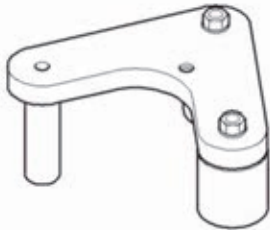
4. Lifting equipment



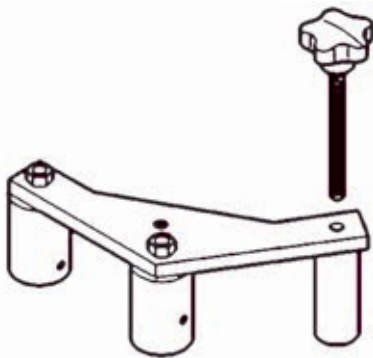
Part No:	11668345
Designation	Lifting tool
Class	TRA
Hook no	-----
Used when	Lift of B and C shaft

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B



Part No:	11668364
Designation	Lifting tool
Class	TRA
Hook no	-----
Used when	Lifting B-C-E axles together



Part No:	11668386
Designation	Lifting tool
Class	TRA
Hook no	-----
Used when	Clutch axles, lifting

Machines/Components

TLB2 4WD-A, TLB2 4WD-B

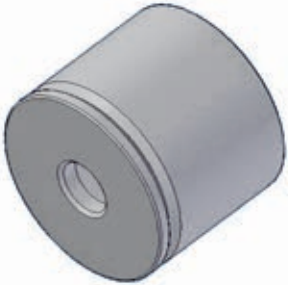


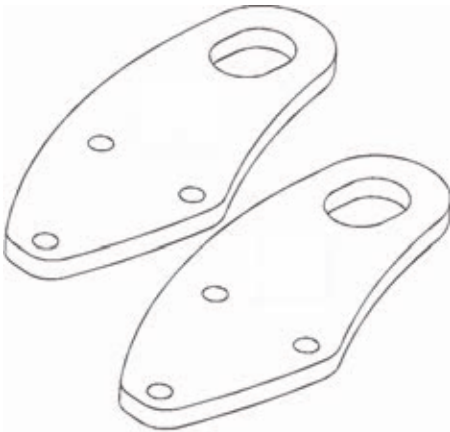
Part No:	11668577
Designation	Lifting device
Class	AXL
Hook no	-----
Used when	Lifting planetary carrier

Machines/Components

APR70, APR70A, APR90, APR90A

4. Lifting equipment

	Part No:	88830057
	Designation	Sleeve
	Class	TRA
	Used when	Clutch axles, lifting
	Remark	Used together with 11668386

 V1103508	Part No:	88830313
	Designation	Lifting tool
	Class	EXT
	Used when	Use to safely lift and lower the engine, lifting brackets are purpose designed

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

	Part No:	88830225
	Designation	Lifting tool
	Class	EXT
	Used when	Lifting axel
	Remark	2 pices is needed to lift a axel. 4 is needed for lifte WLO-350 axel.

Machines/Components

AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762)

5. Pullers and Pressing equipment



Part No:	11666013
Designation	Pump
Class	EXT
Used when	Used together with 11666043, 11666044 or 11666045
Remark	Max working pressure 70 MPa, Gasket kit 9809727, Quick coupling:11705447, Hose:11705446

Machines/Components

8421H-19, 8421H-21, 8421H-5, A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), AWB10, AWB15, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, EC200B, EL70, FL802, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, HST75, HT201, HT90, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE305 (22566), HTE840, HTL220, HTL305, L110E, L110F, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L20B, L20F, L220D, L220E, L220F, L220G, L25B, L25F, L330C, L330C LL, L330D, L350F, L50B, L50D, L50E, L60F, L70F, L90F, MC110B, P2390, TD122, TD40, TD63, TD73



Part No:	88830175
Designation	Pump
Class	EXT
Used when	Used for hydraulic jacks, replaces 11666041
Remark	Max working pressure 70 MPa, Spare parts: Coupling 11705447, Hose 11705446, repair kit 11666901

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D6E, D7D, D8H, D9A, D9B, EL70, EW140, EW140B, EW140C, EW160, EW160B, EW160C, EW180B, EW180C, EW210C, FL-IL1, FL-IL2, HT205, HT210, HT220, HT93, HT95, HTE1160, HTE300, HTE305 (22534, 22544), HTE840, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220F, L220G, L330C, L330C LL, L330D, L330E, L350F, L45F, L45G, L50B, L50D, L50E, L50F, L50G, L60E, L60F, L70C, L70D, L70E, L70F, L90D, L90D OR, L90E, L90F, MC110, MC110B, MC60, MC70, MC80, MC80B, MC90, MC90B, MT-L3045, T450D, TD103

5. Pullers and Pressing equipment



Part No:	11666046
Designation	Swivel nipple
Class	R
Hook no	-----
Used when	Spare part for pump 11666013 and 88830175, can also be mounted on the different jacks for increased accessibility.

Machines/Components

AWB25, AWB40B, AWB40C, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L60F, L70F, L90F



Part No:	88830068
Designation	Jack
Class	EXT
Used when	Different types of repair work
Remark	22 tons, stroke 13.5 mm, height 50 mm

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), L350F

5. Pullers and Pressing equipment



Part No:	11666043
Designation	Jack
Class	EXT
Used when	Bearing removing. Used together with 9809747, 11666013 and 88830175
Remark	5 tons, Coupling:9993758, Gasketkit: 9809730 (Is replacing 11666025)

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, FL802, HST75, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE840, HTL220, HTL305, L110E, L110F, L120E, L120F, L150G, L180G, L220G, L330D, L330E, L350F, L60F, L70F, L90F, MC110, MC60, MC70, MC80, MC90

5. Pullers and Pressing equipment



Part No:	9809747
Designation	Puller
Class	EXT
Hook no	9999820
Used when	Bearing removing. Used together with 11666043 and 11666013
Remark	(Is replacing 11666026)

Machines/Components

8421H-19, 8421H-21, 8421H-5, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, D16E, D9A, D9B, FL802, HST75, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE840, HTL220, HTL305, L110E, L110F, L120E, L120F, L150G, L180G, L220G, L330D, L330E, L350F, L60F, L70F, L90F, MC110, MC60, MC70, MC80, MC90



Part No:	11666042
Designation	Counterhold
Class	EXT
Used when	Pivot pin, replacing
Remark	Used together with 9809747

Machines/Components

L110E, L120E

5. Pullers and Pressing equipment

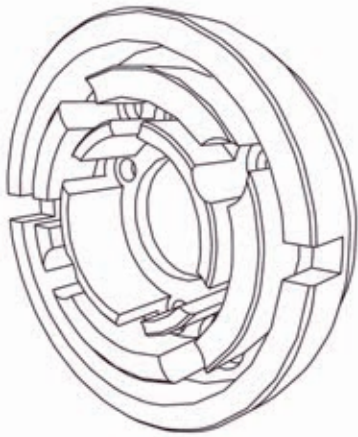


Part No:	11666054
Designation	Jack
Class	EXT
Hook no	-----
Used when	Used together with 11666013 or 88830175. Fits puller bolt M20, capacity 13 tons.
Remark	New material aluminum. Replaces 11666044. Spare parts: Coupling 9993758, gasket kit 11666903.

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D6E, D7D, D8H, D9A, D9B, EL70, EW140C, EW160C, FL-IL1, FL-IL2, HT201, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE400, HTE840, HTL220, HTL305, L110F, L120F, L150D, L150F, L150G, L180D, L180D HL, L180E HL, L180F, L180F HL, L180G, L20B, L20F, L220D, L220E, L220F, L220G, L25B, L25F, L330C, L330C LL, L45F, L45G, L50B, L50D, L50E, L50F, L50G, L60E, L60F, L70C, L70D, L70E, L70F, L90E, L90F, MT-L3045, P2390, TD103, TD122, TD40, TD63, TD73

5. Pullers and Pressing equipment



Part No:	88830127
Designation	Plate
Class	EXT
Hook no	9999814
Used when	Support plate installed on underside of cylinder to enable use of suitable sleeve.
Remark	Fits 11666054

Machines/Components

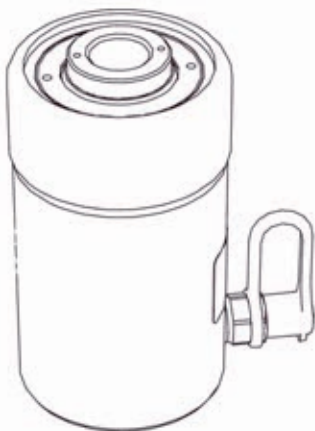
A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), FL-IL1, FL-IL2



Part No:	88830128
Designation	Socket
Class	EXT
Hook no	9988588
Used when	Sleeve used for 88830127 if there is a need for longer puller length on cylinder.
Remark	Used together with 88830127

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), FL-IL1, FL-IL2



Part No:	88830160
Designation	Jack
Class	EXT
Used when	Used together with 11666013 or 11666041. Fits puller bolt M24, capacity 18 tons
Remark	Aluminium. Spare parts: Coupling 9993758, gasket kit 9999298

5. Pullers and Pressing equipment



Part No:	88830132
Designation	Press tool
Class	EXT
Used when	Changing bushings on FS-cylinders and cross stay.
Remark	Diameter 110 mm. Used together with 11666055 and 11666013 or 88830175 (spare parts, see 88830144)

Machines/Components

A35E, A35E FS, A35F FS (37141), A40E, A40E FS, A40F FS (37534)



Part No:	9993770
Designation	Press tool
Class	EXT
Hook no	9988587
Used when	Hub, dismantling
Remark	D=300mm M75x2 - 2 3/4"UN16

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, G930, G940, G946, G960, G970, G976, G990, L110E, L110F, L120E, L120F, L150E, L150F, L150G, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L60F, L70F, L90F

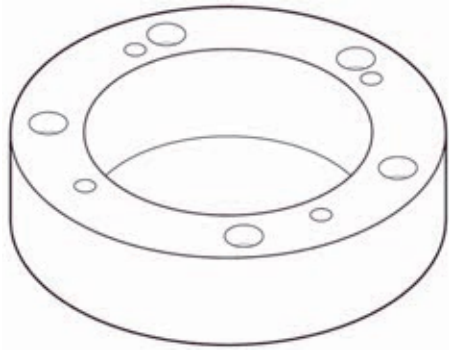


Part No:	9993771
Designation	Press tool
Class	EXT
Hook no	9988587
Used when	Hub, dismantling
Remark	D=204mm M75x2 - 2 3/4"UN16

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB15, D12C, D12D, HST75, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTL220, P2390, TD103, TD63, TD73

5. Pullers and Pressing equipment



Part No:	88830125
Designation	Adapter plate
Class	AXL
Hook no	9999814
Used when	Adapter plate used together with, e.g., 9993771.
Remark	D = 204 mm, Height = 50 mm

Machines/Components

ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)



Part No:	88830040
Designation	Puller
Class	AXL
Used when	Removing planetary gear
Remark	Bolts included

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), P2390



Part No:	11666055
Designation	Jack
Class	EXT
Hook no	-----
Used when	Used together with 11666013 or 88830175. Fits puller bolt M30, capacity 26 tons.
Remark	New material aluminum. Replaces 11666045. Spare parts: Coupling 9993758, gasket kit 11666904

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB40, D12C, EC200B, EL70, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, HTE305 (22566), HTL305, L110F, L120F, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220E, L220G, L330C, L330C LL, L330D, L350F, L60F, L70F, L90F, MC110B, MC80B, MC90B, TD122

5. Pullers and Pressing equipment

	Part No:	11666031
	Designation	Jack
	Class	EXT
	Used when	Used together with 11666013 and 88830175
	Remark	50 tons, Gasket kit:11706852 (included in 14290046)

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A35D, A40, A40D, EL70, L350F, L50B, L70B

	Part No:	11666032
	Designation	Pressure head
	Class	EXT
	Hook no	9999846
	Used when	For M36 puller bolt
	Remark	Fits 11666031

Machines/Components

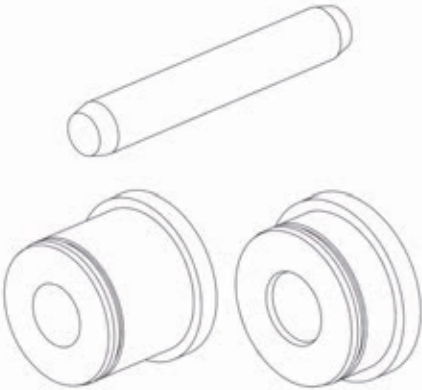
L330E

	Part No:	14290046
	Designation	Track pin press
	Class	EXT
	Used when	Driving out/in track pin

Machines/Components

ABG5820, ABG6820, ABG7820, ABG7820B, ABG8820, ABG8820B, EC130, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC150, EC200, EC230, EC300, EC450, EC650, ECR145C L, ECR145D L, ECR235C L, ECR235D L, FB2800C, FBR2800C, P6820C ABG (12762715), P7820C ABG (12762881), P8820C ABG (12763184)

5. Pullers and Pressing equipment

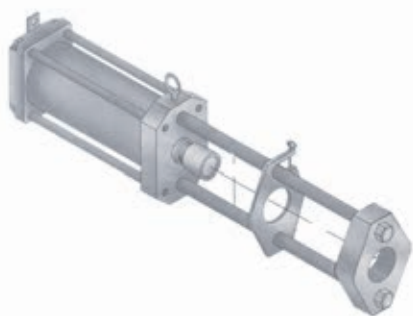
	Part No:	88830145
	Designation	Pin kit
	Class	EXT
	Used when	Track link pin, installing and removing
	Remark	Used together with 14290046

	Part No:	14548448
	Designation	Pump
	Class	EXT
	Hook no	-----
	Used when	Track link pin, installing and removing
	Remark	With HD tube, used together with 14548449

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR58, ECR88, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, PL3005D, PL4611, PL4808D

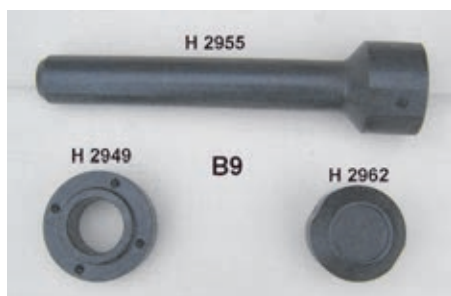
5. Pullers and Pressing equipment



Part No:	14548449
Designation	Track pin press
Class	EXT
Hook no	-----
Used when	Track link pin, installing and removing
Remark	150 Ton, used together with pump 14548448 and pin kit 14548450

Machines/Components

EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, PL3005D, PL4808D



Part No:	14548450
Designation	Pin kit
Class	EXT
Hook no	-----
Used when	Track link pin, installing and removing
Remark	Pin size: B9

Machines/Components

EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, PL3005D, PL4808D

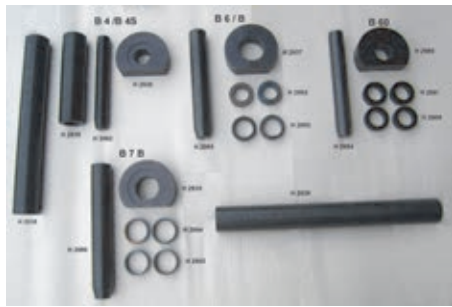


Part No:	14560748
Designation	Track pin press
Class	EXT
Hook no	-----
Used when	Track link pin, installing and removing
Remark	100 Ton, used together with pump 14548448 and pin kit 14566479

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC700C L, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR58, ECR88, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, PL3005D, PL4611, PL4808D

5. Pullers and Pressing equipment



Part No:	14566479
Designation	Pin kit
Class	EXT
Hook no	-----
Used when	Track link pin, installing and removing
Remark	Kit with pin size: B4, B6, B6B, B7B

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC55B, EC55C, EC60C, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR58, ECR88, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, PL3005D, PL4611, PL4808D



Part No:	9993725
Designation	Puller bolt
Class	EXT
Hook no	9512762 + 9988573
Used when	Pivot pin, removing
Remark	M20 L155

Machines/Components

AHW71, AWB50, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, HTE1160, HTE840, L110E, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L180F HL, L220D, L220E, L50D, L50E, L60E, L60F, L70C, L70D, L70E, L70F, L90E, L90F



Part No:	9993714
Designation	Puller bolt
Class	EXT
Hook no	9989355 + 9988573
Used when	Pivot pin, removing
Remark	M20 L450 +9993717

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB40, AWB41, BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D12C, D12D, D5D, D9A, D9B, EW140C, EW160C, EW180C, EW210C, FL-IL1, FL-IL2, HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L110F, L120F, L150D, L150G, L180D, L180D HL, L180G, L220D, L220E, L220F, L220G, L50B, L50D,

5. Pullers and Pressing equipment

L50E, L60E, L60F, L70C, L70D, L70E, L70F, L90E, MC110B, MC80B, MC90B, TD103, TD63, TD73



Part No:	9993713
Designation	Puller bolt
Class	EXT
Hook no	9989355 + 9988573
Used when	Pivot pin, removing
Remark	M20 L700 +9993717

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, D10B, D16E, D4D, D4H, D5E, D6D, D6E, D6H, D7D, D7E, D8H, EL70, HT130, HT132, HT200, HT201, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305, L110E, L110F, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330C, L330C LL, L50D, L50E, L60E, L60F, L70C, L70E, L70F, L90E, L90F, TD103, TD122, TD63, TD73



Part No:	9993791
Designation	Puller bolt
Class	EXT
Hook no	9989355 + 9988573
Used when	Pivot pin, removing
Remark	M20 L1000 +9993717

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, A40E, A40E FS, AWB20, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), HTE400, L20B, L20F, L25B, L25F, L45F, L45G, L50D, L50F, L50G, TD40



Part No:	9993717
Designation	Quick nut
Class	R
Hook no	9989358
Used when	General
Remark	M20 included in pull rods

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25E, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A40, AWB25, AWB40B, AWB40C, AWB50, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433),

5. Pullers and Pressing equipment

D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D4H, D5D, D5E, D6D, D6E, D6H, D7E, D8H, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE400, HTE840, HTL220, L110E, L110F, L120E, L120F, L150F, L150G, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L50D, L50E, L60F, L70C, L70D, L70F, L90F, MC110B, MC80B, MC90B



Part No:	9993722
Designation	Support
Class	EXT
Hook no	9988587 x 3
Used when	Pivot pin, removing
Remark	D=21mm

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH54, AH56E, AH56F, AH56G, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D4H, D5D, D5E, D6D, D6E, D6H, D7D, D7E, D8H, D9A, D9B, EL70, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, HT130, HT132, HT200, HT201, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE400, HTE840, HTL220, L110E, L110F, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330C, L330C LL, L45F, L45G, L50B, L50D, L50E, L50F, L50G, L60E, L60F, L70C, L70D, L70E, L70F, L90E, L90F, MT-L3045, T450D, TD102, TD103, TD122, TD45, TD61, TD63, TD71, TD73



Part No:	88830441
Designation	Support
Class	HYD
Used when	Cylinde bush assembling

5. Pullers and Pressing equipment



Part No:	9993686
Designation	Installation tool
Class	EXT
Hook no	9999835
Used when	Rear steering cylinder pin, installing
Remark	M24 L=95

Machines/Components

L110F, L120F, L50D, L50E, L70C, L70D



Part No:	14360030
Designation	Puller bolt
Class	EXT
Used when	Bushing, removing, installing
Remark	M24 L = 400

Machines/Components

ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)



Part No:	14360031
Designation	Puller bolt
Class	EXT
Used when	Bushing, removing, installing
Remark	M24 L = 600

Machines/Components

A35D, A35E, A35E FS, A35F (37142), A40D, A40E, A40E FS, A40F (37535), MC110B, MC80B, MC90B, PT125



Part No:	14360032
Designation	Puller bolt
Class	EXT
Used when	Bushing, removing, installing
Remark	M24 L = 800

5. Pullers and Pressing equipment

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, ECR145C L, ECR235C L, L180F HL



Part No:	9993647
Designation	Puller bolt
Class	EXT
Hook no	9988572
Used when	Pivot pin, removing
Remark	M30 L300 +9993733

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9993650
Designation	Puller bolt
Class	EXT
Hook no	9988572
Used when	Pivot pin, removing
Remark	M30 L450 +9993733

Machines/Components

A20C, A25C, A25C 4x4, A25F (37214), A30C, A30F (37432), A35C, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40E, A40E FS, A40F (37535), A40F FS (37534), EL70, EW140C, EW160C, EW180C, EW210C, L110F, L120F, L350F, L60F, L70F



Part No:	9993651
Designation	Puller bolt
Class	EXT
Hook no	9988572
Used when	Pivot pin, removing
Remark	M30 L650 +9993733

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A35D, A40, A40D, EC200B, ECR235D L, EL70, EW140C, EW140D, EW160C, EW160D, EW180C, EW210C, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220E, L220G, L330C, L330C LL, L330D, L330E, L350F, L60F, L70F, L90F



Part No:	9993652
Designation	Puller bolt
Class	EXT
Hook no	9988572
Used when	Pivot pin, removing
Remark	M30 L1000 +9993733

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A30C, A30D, A30E, A35C, A35D, A40, A40D, L150E, L180D, L180E, L180E HL, L220E, L330C, L330C LL, L330D, L330E, L350F

5. Pullers and Pressing equipment



Part No:	9993733
Designation	Quick nut
Class	R
Hook no	9999813
Used when	General
Remark	M30 included in pull rods

Machines/Components

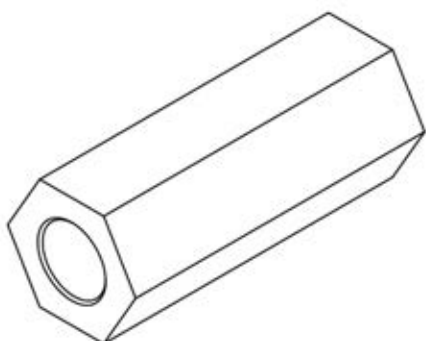
A20C, A25C, A25C 4x4, A30C, A35C, A40, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, L110F, L120F, L350F, L60F, L70F



Part No:	9993739
Designation	Support
Class	EXT
Hook no	9999824 x 2 + 9988588
Used when	Pivot pin, removing
Remark	D=31 mm

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30D, A30E, A30F (37432), A35C, A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40, A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB40B, AWB40C, EL70, L110F, L120F, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220E, L220G, L330C, L330C LL, L330D, L330E, L350F, L50B, L60F, L70F, L90F



Part No:	88830157
Designation	Adapter
Class	EXT
Hook no	9999846
Used when	Extension for M30 puller bolt
Remark	M30

5. Pullers and Pressing equipment



Part No:	9993877
Designation	Support
Class	EXT
Hook no	9999814
Used when	Pins and bushings, removing
Remark	Width 320 mm, used together with 9993739 or 9993878

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AWB40B, AWB40C, EC200B, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, HTE400, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F



Part No:	9993878
Designation	Support leg
Class	EXT
Hook no	9999813
Used when	Pins and bushings, removing
Remark	Length 150 mm, used together with 9993739 or 9993877

Machines/Components

A25F (37214), A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AWB40B, AWB40C, EC200B, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, HTE400, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G



Part No:	14290300
Designation	Puller bolt
Class	EXT
Used when	Pin, removing
Remark	L=600 mm M36

Machines/Components

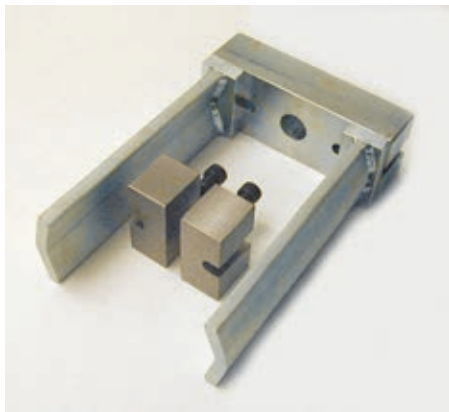
L330E, L350F

5. Pullers and Pressing equipment



Part No:	14290302
Designation	Nut
Class	EXT
Used when	Pin removing
Remark	M36

Machines/Components
L330E, L350F



Part No:	9993888
Designation	Support
Class	EXT
Used when	Pin, removing
Remark	Hole diameter 37 mm (M36)

Machines/Components
L330E, L350F



Part No:	14032491
Designation	Puller bolt
Class	EXT
Used when	Removing link pins. Used together with 14032489, 14032490 and 14034651
Remark	R 3/4" L=370

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B



Part No:	14032279
Designation	Puller bolt
Class	EXT
Used when	Removing link pins. Used together with 14032278
Remark	R 3/4" L=600

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B

5. Pullers and Pressing equipment



Part No:	88830438
Designation	Puller bolt
Class	HYD
Used when	Cylinder bush assembling



Part No:	14032405
Designation	Nut
Class	EXT
Used when	Removing link pins. Used together with 14032279, 14032491
Remark	R 3/4"

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B



Part No:	14033320
Designation	Impact puller
Class	EXT
Used when	Removing link pins

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, ECR145C L, ECR235C L, ECR235D L, ECR305C L, EW130, EW130C, EW140C, EW140D, EW150, EW150C, EW160B, EW160C, EW160D, EW180C, EW200, EW210C, EW230, EW230B



Part No:	9993715
Designation	Intermediate piece
Class	EXT
Hook no	9989356
Used when	Pivot pin, removing
Remark	M20-M24

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EC200B, EL70, HB1100, HB1700, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L50D, L50E

5. Pullers and Pressing equipment



Part No:	9993857
Designation	Intermediate piece
Class	EXT
Hook no	9999835
Used when	Pivot pin, removing
Remark	M20-M30

Machines/Components

L150G, L180E HL, L180F HL, L180G, L220G, L50D, L60F, L70F, L90F



Part No:	9993694
Designation	Intermediate piece
Class	EXT
Hook no	9989358
Used when	Pivot pin, removing
Remark	M30-M24

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EL70, L330C, L330C LL, L330D



Part No:	9993859
Designation	Intermediate piece
Class	EXT
Hook no	9999836
Used when	Pivot pin, removing
Remark	M30-M36

Machines/Components

L330D

5. Pullers and Pressing equipment



Part No:	9993872
Designation	Intermediate piece
Class	EXT
Hook no	9512762
Used when	Pin, removing
Remark	M20 - M45

Machines/Components
A25C



Part No:	9993746
Designation	Intermediate piece
Class	EXT
Hook no	9988572
Used when	Polygon hub, installing
Remark	M20-UNF 7/8"

Machines/Components
A30C, A35C, A40, L150D, L180D, L180D HL, TD102, TD103, TD122



Part No:	9993750
Designation	Intermediate piece
Class	ENG
Hook no	9999834
Used when	Polygon hub, removing and installing
Remark	M20 - M22x1,5

Machines/Components
D12C, D12D

5. Pullers and Pressing equipment



Part No:	9993796
Designation	Intermediate piece
Class	EXT
Hook no	9988572
Used when	Polygon hub, installing
Remark	M20 - M16x1,5

Machines/Components
TD63, TD73



Part No:	9996838
Designation	Adapter
Class	EXT
Hook no	9999812
Used when	Polygon hub on crankshaft, installing

Machines/Components
L120B, L90B, TD61, TD71

5. Pullers and Pressing equipment



Part No:	9996400
Designation	Impact puller
Class	EXT
Hook no	9999817
Used when	Various uses

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56I (56044), AH64Q (56041), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D4H, D5D, D5E, D6D, D6H, D7D, D7E, D9A, D9B, EC200B, EC27C, EC330C L, EC330C LD, EC340D L, EC35C, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR48C, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW200B, EW210C, EW210D, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE305 (22566), HTL220, HTL305, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, L40B, L45B, L45F, L50F, MC110B, MC60B, MC70B, MC80B, MC90B, PL4608, PL4611, PL4808D, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), T450D, TD164



Part No:	88830098
Designation	Adapter
Class	EXT
Hook no	9989353
Used when	Used together with 9996400
Remark	M12x1,5 - M16x1,5

Machines/Components

EC27C, EC35C, ECR48C

5. Pullers and Pressing equipment



Part No:	9998007
Designation	Adapter
Class	ENG
Hook no	9989353
Used when	Used together with 9996400
Remark	M14x1,5 - M16x1,5

Machines/Components

D4D, D4H, D5D, D6D, D6H, D7D, EW140B, EW160B, EW180B, EW200B, L20B, L20F, L25B, L25F, L30B, L35B, L40B, L45B, L45F, L50F, TD164



Part No:	9998674
Designation	Adapter
Class	ENG
Hook no	9989353
Used when	Used together with 9996400
Remark	M8 - M16x1,5

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), D5D, D5E, D7D, D7E

5. Pullers and Pressing equipment



Part No:	9990156
Designation	Adapter
Class	EXT
Hook no	9989353
Used when	Used together with 9996400
Remark	M10 - M16

Machines/Components

D12C, D9A, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D



Part No:	9990262
Designation	Adapter
Class	EXT
Hook no	9989353
Used when	Used together with 9996400
Remark	M12 - M16

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D

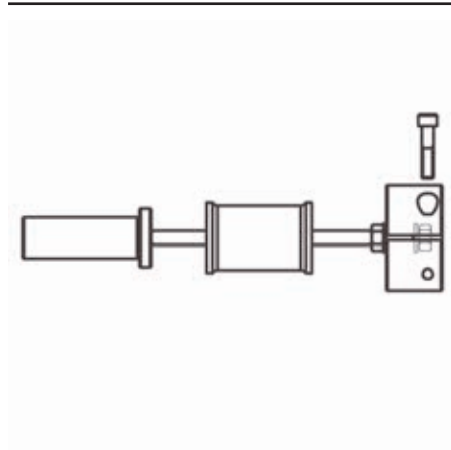


Part No:	9990192
Designation	Puller
Class	EXT
Hook no	9989353
Used when	Seal, removing
Remark	Used together with 9996400

5. Pullers and Pressing equipment

Machines/Components

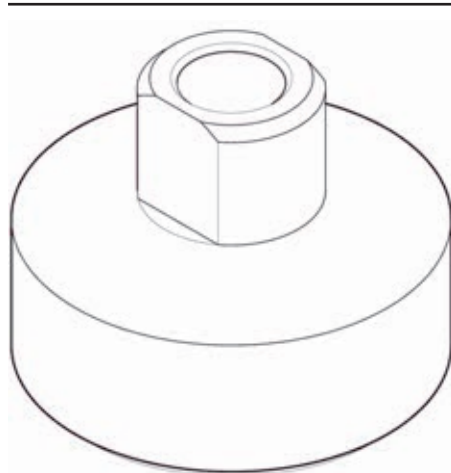
A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56I (56044), AH64Q (56041), ARB/H35 (23960), ARB/H35 (23962), ARB/H40 (23957), ARB/H40 (23959), D16E, D9A, D9B, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE305 (22566), HTL220, HTL305, L150E, L150F, L150G, L180F, L180F HL, L180G, MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	14609308
Designation	Impact puller
Class	TRA
Used when	Travel gearbox, Planetary kit disassembly

Machines/Components

EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, PL4608, PL4611, PL4808D



Part No:	88830124
Designation	Intermediate piece
Class	AXL
Hook no	9999812
Used when	Pinion, installing
Remark	Thread M50 - M20

Machines/Components

ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)

5. Pullers and Pressing equipment



Part No:	9993774
Designation	Intermediate piece
Class	EXT
Hook no	9999813
Used when	Hub, installing
Remark	M55V- M20

Machines/Components
AWB15, AWB30, AWB31



Part No:	9993757
Designation	Intermediate piece
Class	EXT
Hook no	9999812
Used when	Hub, assembling
Remark	M60-M20

Machines/Components
AWB25, AWB40, L110E, L110F, L120E, L120F, L150G, L180G, L220G, L60E, L60F, L70C, L70D, L70E, L70F, L90E, L90F



Part No:	9993769
Designation	Intermediate piece
Class	EXT
Hook no	9999812
Used when	Hub, installing
Remark	M85V- M20

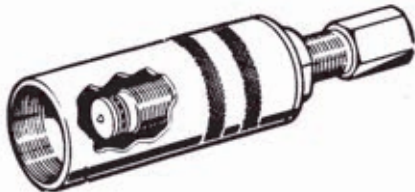
Machines/Components
AWB40, AWB40B, AWB40C, AWB41, L150F, L150G, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G

5. Pullers and Pressing equipment



Part No:	9996296
Designation	Nut
Class	AXL
Hook no	9989358
Used when	Pinion, installing
Remark	7/8-9UNC - 1 3/4"-12UN

Machines/Components
AH54



Part No:	2907335
Designation	Basic unit
Class	AXL
Hook no	-----
Used when	Axle, reconditioning. Used together with other special tools

Machines/Components
L20B, L25B, L30B, L35B, L40B, L45B, MT-L3045



Part No:	2288756
Designation	Basic unit
Class	AXL
Hook no	-----
Used when	Used for bushings and bearings together with other tools

Machines/Components
2HL270, 2HL290, AV230, MT-L3045



Part No:	88830174
Designation	Basic unit
Class	AXL
Used when	Removal of bearings, used together with other special tools

Machines/Components
MT-L3045

5. Pullers and Pressing equipment



Part No:	2907334
Designation	Grab sleeve
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B, L40B, L45B, MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070, MT-L3045



Part No:	2907337
Designation	Grab sleeve
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B, L40B, L45B



Part No:	88830086
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MT-E3050

5. Pullers and Pressing equipment



Part No:	88830087
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070, MT-L3045



Part No:	88830172
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MT-L3045



Part No:	88830173
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MT-L3045

5. Pullers and Pressing equipment



Part No:	88830088
Designation	Grab sleeve
Class	TRA
Used when	Removal of taper roller bearing, inner ring

Machines/Components

2HL270, 2HL290



Part No:	88830089
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070

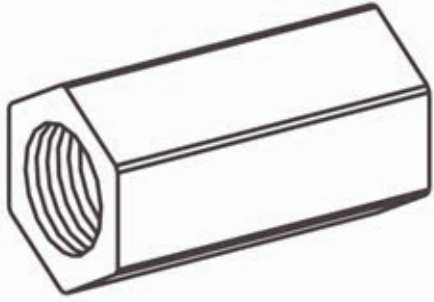


Part No:	88830090
Designation	Grab sleeve
Class	AXL
Used when	Removal of taper roller bearing, inner ring

Machines/Components

MT-E3070

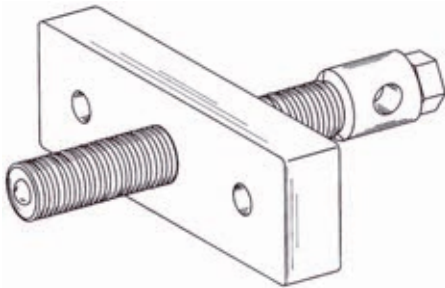
5. Pullers and Pressing equipment



Part No:	2907329
Designation	Adapter
Class	AXL
Hook no	-----
Used when	Use together with 2901834 for wheel bolt
Remark	M20x1,5

Machines/Components

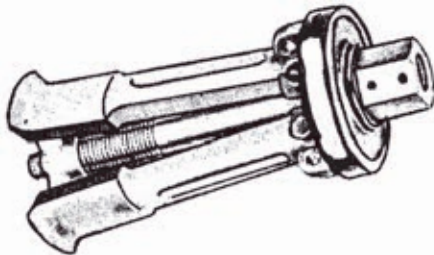
L20B, L25B, L30B, L35B, L40B, L45B



Part No:	2901980
Designation	Puller
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

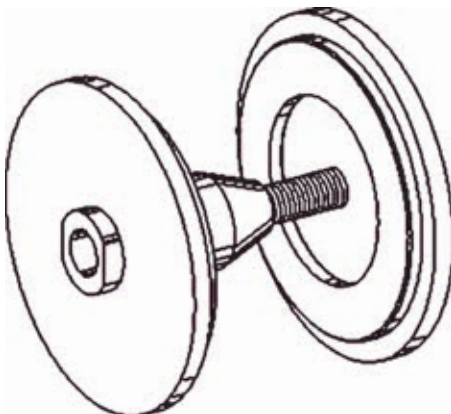
L40B, L45B



Part No:	2907336
Designation	Puller
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B, MT-L3045

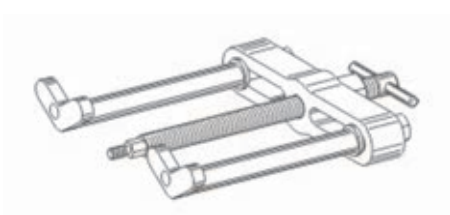
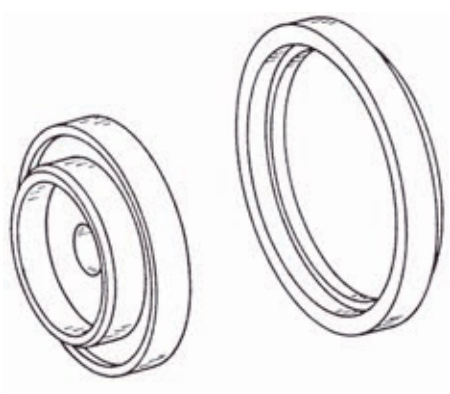


Part No:	5235732
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning. To install tapered roller bearing
Remark	Used together with 5235734

Machines/Components

APLB745, APLB755, APLB755-HD, L20B, L25B, L30B, L35B, L40B, L45B, MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070

5. Pullers and Pressing equipment

	Part No: 2901941 Designation Puller Class AXL Used when Removing bearing
Machines/Components MT-L3045	
	Part No: 5235734 Designation Press ring Class AXL Hook no ----- Used when Axle, reconditioning Remark Used together with 5235732
Machines/Components APLB745, APLB755, APLB755-HD, L20B, L25B, L30B, L35B, L40B, L45B, MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070	
	Part No: 14559282 Designation Puller Class EXT Hook no 9988586 Used when Slew motor brake piston seal, removing and installing
Machines/Components EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC290B LC, EC290B LR, EC290B NLC, EC460B LC, EC460B LR, EC480D HR, EC480D L, FC2121C, FC2421C, PL4808D	
	Part No: 9992002 Designation Puller Class EXT Hook no 9988591 Used when Belt pulley, removing
Machines/Components R134A	

5. Pullers and Pressing equipment

	Part No: 9992654 Designation Puller Class EXT Hook no 9988590 Used when Oil pump gear, removing
Machines/Components A30C, A35C, A40, D10B, TD102, TD103, TD122	
	Part No: 9992658 Designation Puller Class ENG Hook no 9988580 Used when Crankshaft gear, removing
Machines/Components D10B, D12C, TD102, TD103, TD122, TD45, TD61, TD71, TD73	
	Part No: 9992679 Designation Puller Class ENG Hook no 9988593 Used when Camshaft gear and injection pump gear, removing
Machines/Components D1.2A, D1.6A, D2.0A, D2.0D, D2.2A, D2.2D, D3.1A, D3.4A, D3.4D, EC55C, EC60C, EW60C, TD102, TD122, TD61, TD63, TD71, TD73	

5. Pullers and Pressing equipment



Part No:	9996860
Designation	Puller
Class	EXT
Hook no	9989353
Used when	Oil pump gear, removing

Machines/Components

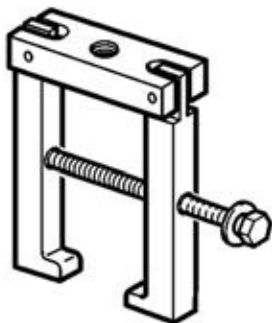
TD40, TD61, TD63, TD71, TD73



Part No:	9990006
Designation	Puller
Class	EXT
Hook no	9988590
Used when	Injector, removing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, EC330C L, EC330C LD, EC340D L, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, PL4608, PL4611, PL4808D, T450D



Part No:	9990114
Designation	Puller
Class	ENG
Hook no	9988590
Used when	Main bearing caps, removing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)

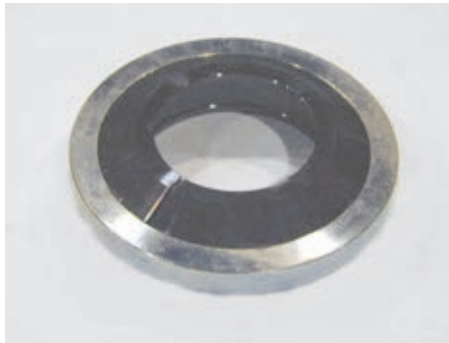
5. Pullers and Pressing equipment



Part No:	9996861
Designation	Press tool
Class	EXT
Hook no	9512762
Used when	Copper sleeve and steel ring, installing

Machines/Components

L90C, L90C OR, TD61, TD63, TD71, TD73



Part No:	9993659
Designation	Puller
Class	TRA
Hook no	9999812
Used when	Bearing removing

Machines/Components

HT200, HTE300, HTE305 (22534, 22544)



Part No:	9992655
Designation	Puller
Class	EXT
Hook no	9989397
Used when	Polygon hub, removing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9992514
Designation	Press tool
Class	EXT
Hook no	9999811
Used when	Output shaft 6x6 axle, removing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, AH54, AH63

5. Pullers and Pressing equipment



Part No:	9992659
Designation	Press tool
Class	ENG
Hook no	9999812
Used when	Crankshaft gear, installing

Machines/Components

D10B, HB2400, HB3200, HB3800, TD102, TD103, TD122, TD45, TD61, TD63, TD71, TD73



Part No:	9996418
Designation	Puller
Class	EXT
Hook no	9989357
Used when	Copper sleeve, removing

Machines/Components

A35C, A40, TD45



Part No:	9996419
Designation	Puller
Class	EXT
Hook no	9989357
Used when	Steel ring for copper sleeve, removing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, D10B, L120C, TD102, TD103, TD122, TD45, TD61, TD63, TD71, TD73



Part No:	9996657
Designation	Extractor
Class	EXT
Hook no	9999834
Used when	Copper sleeve, removing

Machines/Components

A20C, A25C, A25C 4x4, D10B, L120C, TD102, TD103, TD61, TD71



Part No:	9998140
Designation	Extractor
Class	EXT
Hook no	9989356
Used when	Copper sleeve, removing

Machines/Components

A30C, A35C, A40, D10B, L120C, L150C, L150C LB, L180C, L180C CO, L180C HL, L220D, L330C, L330C LL, L90C, L90C OR, TD102, TD103, TD122, TD164, TD63, TD73

5. Pullers and Pressing equipment



Part No:	9998253
Designation	Extractor
Class	EXT
Hook no	9989355
Used when	Copper sleeve, removing
Remark	Used together with 9809668

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D9A, D9B, T450D



Part No:	9809740
Designation	Cone
Class	R
Hook no	-----
Used when	Copper sleeve, replacing
Remark	Used together with earlier version of 9998253 on engine D9A, included in 9998253.

Machines/Components

D9A



Part No:	9809668
Designation	Extractor
Class	EXT
Used when	Copper sleeve, removing
Remark	Used together with 9998253

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D9A, D9B, T450D

5. Pullers and Pressing equipment



Part No:	88800288
Designation	Extractor
Class	EXT
Hook no	9999811
Used when	Copper sleeve, removing
Remark	Replaces 9807746, Used together with 9998253

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D9A, D9B, T450D



Part No:	9998532
Designation	Extractor
Class	EXT
Hook no	9989355
Used when	Injector, removing

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25D 4x4, A30C, A30D, A35C, A40, D10B, G710B, G720B, G726B, G730B, G740B, G746B, G780B, L120C, TD102, TD103, TD122, TD45, TD61, TD63, TD71, TD73



Part No:	88830422
Designation	Puller
Class	HYD
Used when	Valve removal

5. Pullers and Pressing equipment



Part No:	9992666
Designation	Press tool
Class	ENG
Hook no	9999827
Used when	Cylinder liner, securing

Machines/Components
D10B, TD102, TD103



Part No:	9992667
Designation	Press tool
Class	ENG
Hook no	9999827
Used when	Cylinder liner, securing

Machines/Components
D10B, TD45



Part No:	9996847
Designation	Press tool
Class	ENG
Hook no	9989353
Used when	Cylinder liner, securing

Machines/Components
TD61, TD63, TD71, TD73

5. Pullers and Pressing equipment



Part No:	9996966
Designation	Press tool
Class	ENG
Hook no	9989355
Used when	Cylinder liner, securing

Machines/Components

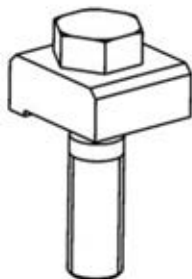
D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D9A, D9B, TD164



Part No:	9998043
Designation	Press tool
Class	ENG
Hook no	9512762
Used when	Cylinder liner, securing

Machines/Components

TD122

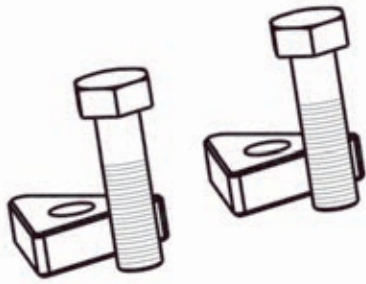


Part No:	9990157
Designation	Press tool
Class	ENG
Hook no	9512762
Used when	Cylinder liner, securing

Machines/Components

D16E, D16F (15050684), D16H (15050683), D16H (15117877)

5. Pullers and Pressing equipment

	Part No:	88800129
	Designation	Press tool
	Class	ENG
	Used when	Cylinder liner, securing

Machines/Components

D6E, D6H, D7E

	Part No:	9992089
	Designation	Puller plate
	Class	ENG
	Hook no	9999811
Used when		Cylinder liner, removing

Machines/Components

D10B, TD102, TD103

	Part No:	9992178
	Designation	Puller plate
	Class	ENG
	Hook no	9999811
Used when		Cylinder liner, removing

Machines/Components

TD71, TD73

	Part No:	9992955
	Designation	Puller plate
	Class	ENG
	Hook no	9999811
Used when		Cylinder liner, removing

Machines/Components

D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), TD122

5. Pullers and Pressing equipment



Part No:	9996087
Designation	Puller plate
Class	ENG
Hook no	9999811
Used when	Cylinder liner, installing

Machines/Components
TD61, TD63



Part No:	9996963
Designation	Puller plate
Class	ENG
Hook no	9999811
Used when	Cylinder liner, removing

Machines/Components
D16E, D16F (15050684), D16H (15050683), D16H (15117877), TD164



Part No:	9990104
Designation	Puller plate
Class	ENG
Hook no	9999846
Used when	Cylinder liner, removing

Machines/Components
D9A, D9B



Part No:	9996854
Designation	Drift
Class	HYD
Hook no	9988586
Used when	Cylinder liner, installing

Machines/Components
TD61, TD63, TD71, TD73

5. Pullers and Pressing equipment



Part No:	9990144
Designation	Puller plate
Class	ENG
Hook no	9999818
Used when	Cylinder liner, removing

Machines/Components

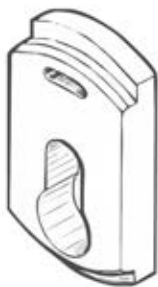
D4D, D4H, D6D, D6E, D6H, D8H, EW145B



Part No:	9998675
Designation	Puller plate
Class	ENG
Hook no	9999817
Used when	Cylinder liner, removing

Machines/Components

D5D, D5E, D7D, D7E



Part No:	88800218
Designation	Plate
Class	ENG
Used when	Installing cylinderlines
Remark	Diameter 123 mm

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662)

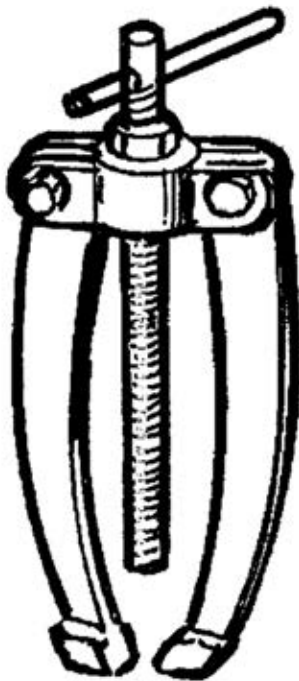
5. Pullers and Pressing equipment



Part No:	88800342
Designation	Puller
Class	EXT
Used when	Removal of injector sleeves
Remark	Used together with 9986173

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	9986173
Designation	Puller
Class	EXT
Used when	Removal of injector sleeves
Remark	Used together with 88800342

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D

5. Pullers and Pressing equipment



Part No:	88830209
Designation	Installation tool
Class	ENG
Used when	Installing thermostat selaing



Part No:	88830210
Designation	Puller
Class	ENG
Used when	Removing thermostat selaing



Part No:	9998134
Designation	Thread cutting tool
Class	EXT
Hook no	9512762
Used when	Copper sleeve, removing

Machines/Components

A30C, A35C, A40, D10B, L120C, L150C, L150C LB, L180C, L180C CO, L180C HL, L220D, L330C, L330C LL, L90C, L90C OR, TD102, TD103, TD122, TD164, TD63, TD73



Part No:	9998252
Designation	Thread cutting tool
Class	EXT
Hook no	9512762
Used when	Copper sleeve, removing
Remark	Used together with 9809667

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D9A, D9B, T450D

5. Pullers and Pressing equipment



Part No:	9809750
Designation	Cone
Class	R
Hook no	-----
Used when	Copper sleeve, replacing
Remark	Used together with earlier version of 9998252 on engine D9A, today included in 9998252.

Machines/Components
D9A



Part No:	88880057
Designation	Thread cutting tool
Class	EXT
Used when	Copper sleeve, removing
Remark	M9 , Used together with 9998252, Replaces 9809667

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D9A, D9B, T450D



Part No:	88800289
Designation	Thread cutting tool
Class	EXT
Hook no	9999811
Used when	Copper sleeve removing
Remark	M8, Used together with 9998252 (replaces 9987009)

Machines/Components

A35D, A35E, A35E FS, A40D, D12C, D12D, D9A, D9B, T450D

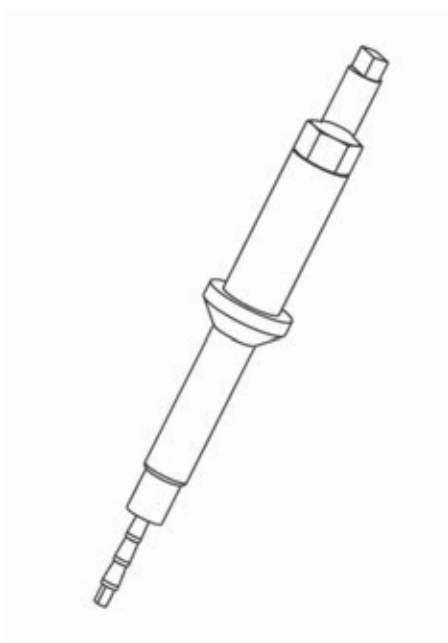
5. Pullers and Pressing equipment



Part No:	9998254
Designation	Flaring tool
Class	EXT
Used when	Copper sleeve, installing and flaring

Machines/Components

D12C

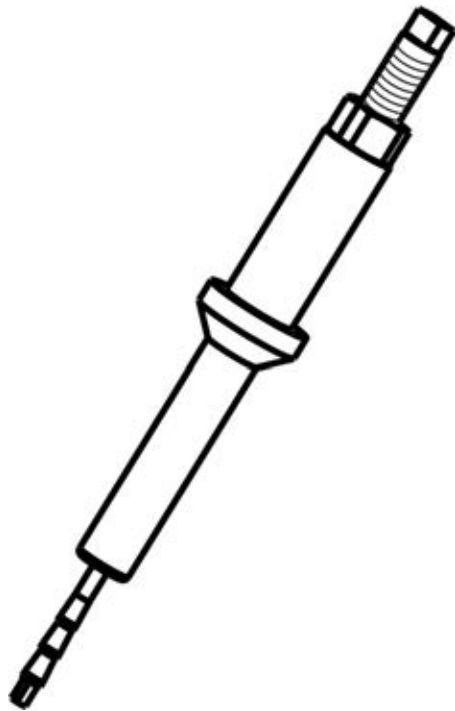


Part No:	88800102
Designation	Flaring tool
Class	EXT
Hook no	-----
Used when	Copper sleeve, installing and flaring
Remark	Replaces 9998688. Spare part 88880010 (fits 88800102)

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A35E, A35E FS, A40D, D12D, D9A, D9B, T450D

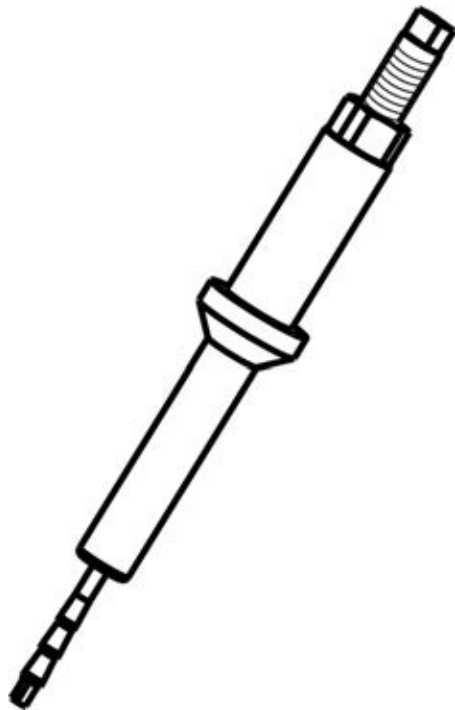
5. Pullers and Pressing equipment



Part No:	88800196
Designation	Flaring tool (copper sleeve)
Class	EXT
Used when	Copper sleeve, installing and flaring
Remark	Sparepart 88880010

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D



Part No:	88800283
Designation	Flaring tool (steel sleeve)
Class	EXT
Used when	Injector sleeve, installing and flaring
Remark	Spare part 88880054

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, L150G, L180G, L220G, PL4808D

5. Pullers and Pressing equipment



Part No:	9996402
Designation	Press drift
Class	EXT
Hook no	9989353
Used when	Copper sleeve, installing

Machines/Components

TD45, TD61, TD63, TD71, TD73



Part No:	9996420
Designation	Press drift
Class	EXT
Hook no	9512762
Used when	Copper sleeve, installing

Machines/Components

TD45, TD71, TD73



Part No:	9996421
Designation	Press tool
Class	EXT
Hook no	9512762
Used when	Copper sleeve, installing

Machines/Components

TD61, TD63



Part No:	9996647
Designation	Flaring tool
Class	EXT
Hook no	9512762
Used when	Copper sleeve, installing and flaring

Machines/Components

A40, D10B, TD102, TD103, TD122



Part No:	9996867
Designation	Base
Class	EXT
Hook no	9999811
Used when	Copper sleeve, removing

Machines/Components

L90C, L90C OR, TD61, TD63, TD73

5. Pullers and Pressing equipment



Part No:	9998246
Designation	Press tool
Class	ENG
Hook no	9999824
Used when	Valve spring, removing and installing

Machines/Components

D12C, D9A



Part No:	9990176
Designation	Press tool
Class	ENG
Hook no	9999818 x 2
Used when	Valve spring, valve guide, removing and installing
Remark	Replaces 9998260

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B



Part No:	9990210
Designation	Valve spring compressor
Class	ENG
Hook no	9988593
Used when	Installing and removing valve spring

Machines/Components

A40E, A40E FS, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B

5. Pullers and Pressing equipment

	Part No:	8931-00060
	Designation	Press tool
	Class	ENG
	Hook no	-----
	Used when	Engine valve spring, removing and installing

Machines/Components

EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C

	Part No:	11668402
	Designation	Installation tool
	Class	ENG
	Hook no	9999827
	Used when	Camshaft bushes, replacing

Machines/Components

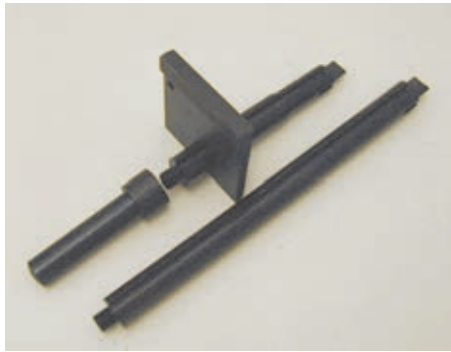
D4D, D4E, D4H, D6D, D6E, D6H, D8H

	Part No:	9998695
	Designation	Installation tool
	Class	ENG
	Hook no	9999827
	Used when	Camshaft bushes, replacing

Machines/Components

D5D, D5E, D7D, D7E

5. Pullers and Pressing equipment



Part No:	9998696
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Control arm bushing

Machines/Components
D5D



Part No:	11668404
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Control rod sleeves

Machines/Components
D4D



Part No:	8933-00350
Designation	Press ring
Class	TRA
Used when	Travel gearbox floating seal, installing
Remark	D=306 / L=41

Machines/Components
EC240B LC, EC240B LR, EC240B NLC



Part No:	14515798
Designation	Press ring
Class	TRA
Used when	Travel gearbox floating seal, installing
Remark	D=358 / L=40

Machines/Components
EC140B LC, EC140B LCM, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC

5. Pullers and Pressing equipment

	Part No:	14514178
	Designation	Press ring
	Class	TRA
	Used when	Travel gearbox floating seal, installing
	Remark	D=395 / L=40

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC

	Part No:	14533601
	Designation	Press ring
	Class	TRA
	Hook no	-----
	Used when	Travel gearbox seal, installing
	Remark	Replaces 14514178 from serial number: 11468

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC

	Part No:	14526534
	Designation	Press ring
	Class	TRA
	Hook no	-----
	Used when	Travel gearbox floating seal, installing

Machines/Components

ECR58, ECR88

5. Pullers and Pressing equipment



Part No:	8932-00040
Designation	Impact puller
Class	HYD
Used when	Removing brake piston, slew motor

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, ECR145C L, ECR145D L, SE130 W-3, SE210 LC-3



Part No:	8932-00310
Designation	Impact puller
Class	HYD
Used when	Removing brake piston, slew motor

Machines/Components

EW145B, SE130 W-3



Part No:	8932-00390
Designation	Press tool
Class	TRA
Used when	Travel brake piston, overhauling
Remark	D=335

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, SE450 LC-2

5. Pullers and Pressing equipment



Part No:	8932-00580
Designation	Press tool
Class	TRA
Used when	Travel gearbox bearing, installing
Remark	D=336 / L=175

Machines/Components

EC460, EC460 LC, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD



Part No:	8933-00260
Designation	Press tool
Class	TRA
Used when	Travel brake piston, installing
Remark	D=335

Machines/Components

EC135B LC, EC140B LC, EC140B LCM



Part No:	8933-00310
Designation	Press tool
Class	TRA
Used when	Travel gearbox thrust plate, installing
Remark	T=23 / L=351

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140D LM, ECR145D L



Part No:	9993869
Designation	Adapter
Class	TRA
Hook no	9999812
Used when	Clutch shaft, removing and installing

Machines/Components

HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305

5. Pullers and Pressing equipment



Part No:	9993668
Designation	Press tool
Class	AXL
Hook no	9989356
Used when	Pinion, removing

Machines/Components
AH54



Part No:	9993670
Designation	Screw
Class	AXL
Hook no	9989353
Used when	Shaft in proportional ground speed power take-off, pressing out

Machines/Components
AH54



Part No:	9993671
Designation	Screw
Class	AXL
Hook no	9989353
Used when	Idler gear, removing

Machines/Components
AH54



Part No:	9993736
Designation	Press tool
Class	TRA
Hook no	9999818
Used when	Disc clutch, dismantling and assembling

Machines/Components
PT1506, PT1560, PT1562, PT1563, PT1661, PT1760, PT1860, PT1862, PT1863,
PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

5. Pullers and Pressing equipment



Part No:	9993737
Designation	Press tool
Class	TRA
Hook no	9999818
Used when	Rear cover, removing and installing

Machines/Components

PT1560, PT1562, PT1563, PT1661, PT1760, PT1860, PT1862, PT1863, PT2116 (22416)



Part No:	9993744
Designation	Press tool
Class	TRA
Hook no	9989357
Used when	Plantery gear retainer, conditioning

Machines/Components

PT1506, PT1560, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	9993811
Designation	Press tool
Class	TRA
Hook no	9989357
Used when	Plantery gear, reconditioning

Machines/Components

PT1560, PT1563, PT1860, PT1862, PT1863

5. Pullers and Pressing equipment



Part No:	9993843
Designation	Adapter
Class	EXT
Hook no	9988574
Used when	Pivot shaft, rear axle, removing

Machines/Components

L60E, L60F, L70C, L70D, L70E, L70F, L90E, L90F



Part No:	9993850
Designation	Press tool
Class	TRA
Hook no	9988593
Used when	Clutch, removing

Machines/Components

HT130, HT131, HT132, HT200, HT201, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE840, HTL220, HTL305



Part No:	9993599
Designation	Centre support
Class	TRA
Hook no	9989358
Used when	Disc clutch, removing. Used together with 9993850

Machines/Components

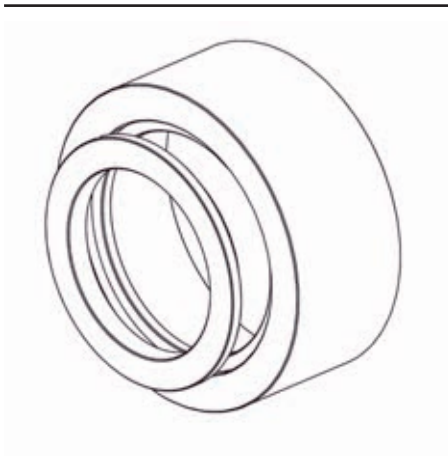
HT130, HT132, HT200, HT201, HT90, HT93, HT95, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE840, HTL220

5. Pullers and Pressing equipment



Part No:	88830058
Designation	Press tool
Class	TRA
Used when	Removing and installing cup springs on clutch shafts

Machines/Components
HTE110, HTE120, HTE125



Part No:	88830071
Designation	Press tool
Class	TRA
Used when	Removing and installing cup springs on clutch shafts

Machines/Components
HTE110, HTE120, HTE125, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE305 (22566), HTL220, HTL305



Part No:	9993846
Designation	Tool
Class	EXT
Hook no	9999811
Used when	Clutch, removing

Machines/Components
8421H-19, 8421H-21, 8421H-5, L330C, L330C LL, L330D, L330E



Part No:	9993701
Designation	Tube press
Class	TRA
Hook no	9989355
Used when	Transmission, tube flaring

Machines/Components
HT132

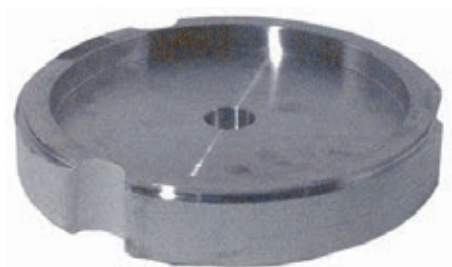
5. Pullers and Pressing equipment



Part No:	9993553
Designation	Press tool
Class	EXT
Used when	Bushing in bogie beam, removing

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9993562
Designation	Press plate
Class	EXT
Hook no	9989358
Used when	Bushing in bogie beam, installing

Machines/Components

A20C, A25C, A25C 4x4, A25D, A25E, A25F (37214), A30C, A30D, A30E, A30F (37432)



Part No:	8932-00260
Designation	Puller
Class	HYD
Used when	Travel motor

Machines/Components

EC140B LC, EC140B LCM, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, SE210 LC-3

5. Pullers and Pressing equipment



Part No:	8932-00380
Designation	Impact puller
Class	TRA
Used when	Travel gearbox bush, removing
Remark	D=90 / L=420

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, PL4608, PL4611, PL4808D



Part No:	8932-00610
Designation	Extractor
Class	HYD
Used when	Logic valve, removing

Machines/Components

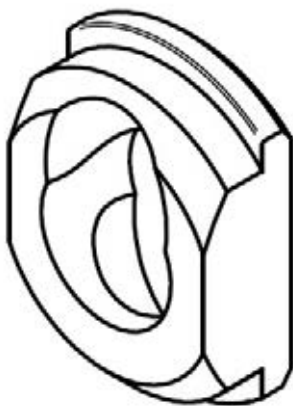
EC200B, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B LC, EC240B LR, EC240B NLC, EW145B



Part No:	14527912
Designation	Puller
Class	TRA
Hook no	-----
Used when	Swing motor brake piston, removing and installing

Machines/Components

ECR58, ECR88



Part No:	88830151
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=45mm

5. Pullers and Pressing equipment



Part No:	88830152
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=50mm



Part No:	14360024
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 60

Machines/Components
EC280, EC340, EC390



Part No:	88830053
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 65

Machines/Components
EC140C L, EC140C LM, ECR145C L, EW145B

5. Pullers and Pressing equipment



Part No:	14360025
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 70

Machines/Components

EC140C L, EC140C LM, EC160, EC160 W, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EW140, EW145B, EW160



Part No:	14360026
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 75

Machines/Components

EC160, EC160 W, EW140, EW160



Part No:	14360027
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 80

Machines/Components

EC140C L, EC140C LM, EC160, EC160 W, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC280, EC450, ECR145C L, EW140, EW160



Part No:	14360028
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 85

Machines/Components

EC160, EC160 W, EW140, EW160

5. Pullers and Pressing equipment



Part No:	14360029
Designation	Puller plate
Class	EXT
Used when	Bushing, removing
Remark	D = 90

Machines/Components

EC160, EC160 W, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290 LC, EC290 LR, EC290 NLC, EC340, EC390, ECR235C L, EW140, EW160



Part No:	88830153
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=100mm

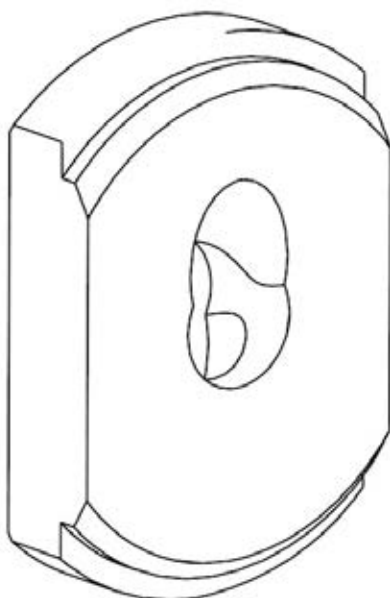


Part No:	88830154
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=110mm

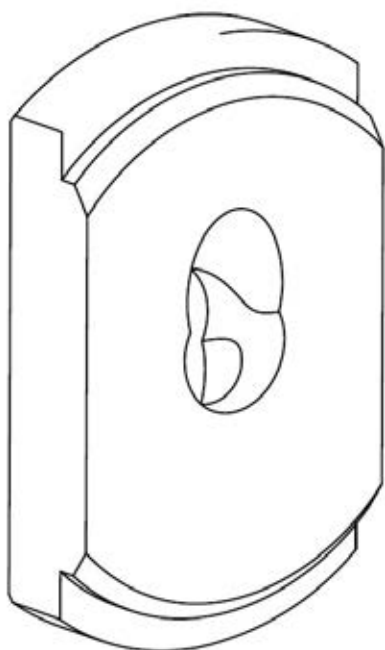
5. Pullers and Pressing equipment



Part No:	88830155
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=120mm



Part No:	88830156
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=130mm



Part No:	88830158
Designation	Puller plate
Class	EXT
Hook no	9999846
Used when	Bushing, removing
Remark	D=140mm

5. Pullers and Pressing equipment



Part No:	11666185
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for upper tool bushing
Remark	Kit with 3 plates Ø 109.3 - 119.3 - 137.3

Machines/Components

EC200B, EC210B, HB1100, HB1400, HB1700



Part No:	11666186
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 133 mm

Machines/Components

EC200B, EC210B, HB1400



Part No:	11666187
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 123 mm

Machines/Components

HB1100

5. Pullers and Pressing equipment



Part No:	11666188
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 140 mm

Machines/Components
EC200B, EC210B, HB1700



Part No:	11666189
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 150 mm

Machines/Components
HB2400



Part No:	11666190
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for upper tool bushing
Remark	Ø 144.3 mm

Machines/Components
HB2400, HB3200

5. Pullers and Pressing equipment



Part No:	11666191
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 170 mm

Machines/Components
HB3200



Part No:	11666192
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for upper tool bushing
Remark	Ø 164.3 mm

Machines/Components
HB3200



Part No:	11666193
Designation	Puller plate
Class	HYD
Hook no	-----
Used when	Used for lower tool bushing
Remark	Ø 184 mm

Machines/Components
HB3800



Part No:	14360033
Designation	Sleeve
Class	EXT
Used when	Bushing, removing
Remark	d = 102,5

5. Pullers and Pressing equipment

Machines/Components

EC140C L, EC140C LM, EC160, EC160 W, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC280, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC450, ECR145C L, ECR235C L, EW140, EW145B, EW160



Part No:	14360034
Designation	Sleeve
Class	EXT
Used when	Bushing, removing
Remark	d = 107

Machines/Components

BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC340, EC390, ECR145C L, ECR235C L, EW145B



Part No:	88830159
Designation	Guide washer
Class	EXT
Used when	Bushing, installing
Remark	D = 109 mm, 119 mm, 129 mm, 139 mm



Part No:	14360035
Designation	Guide washer
Class	EXT
Used when	Bushing, removing
Remark	D = 60 - 75

Machines/Components

EC140C L, EC140C LM, EC160, EC160 W, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC280, EC340, EC390, EC450, EW140, EW145B, EW160

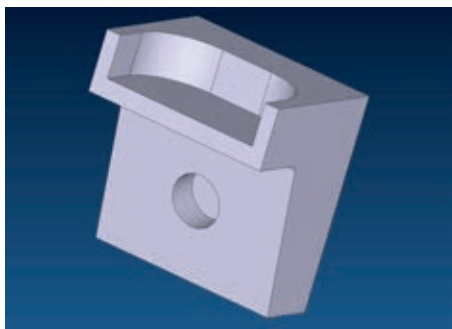
5. Pullers and Pressing equipment



Part No:	14360036
Designation	Guide washer
Class	EXT
Used when	Bushing, removing
Remark	D = 80 - 100

Machines/Components

EC140C L, EC140C LM, EC160, EC160 W, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC280, EC340, EC390, EC450, ECR145C L, EW140, EW145B, EW160



Part No:	14635800
Designation	Guide
Class	EXT
Used when	For proper sensor a alignment of slewing lock.

Machines/Components

PL3005D, PL4808D



Part No:	14360037
Designation	Spacer sleeve
Class	EXT
Used when	Bushing, removing, installing
Remark	L = 50

Machines/Components

EC280, EC340, EC390



Part No:	14360038
Designation	Spacer sleeve
Class	EXT
Used when	Bushing, removing, installing
Remark	L = 100

Machines/Components

EC280, EC340, EC390

5. Pullers and Pressing equipment



Part No:	14360039
Designation	Spacer sleeve
Class	EXT
Used when	Bushing, removing, installing
Remark	L = 200

Machines/Components
EC280, EC340, EC390



Part No:	11666174
Designation	Installation tool
Class	HYD
Used when	Reconditioning, hydraulic hammer

Machines/Components
HB200



Part No:	88830001
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	AWD wheel motor, seal kit, installation

Machines/Components
G710B, G720B, G726B, G730B, G740B, G746B, G780B, G946, G976

5. Pullers and Pressing equipment



Part No:	11668583
Designation	Press tool
Class	AXL
Hook no	-----
Used when	Removal and installation of bearings

Machines/Components
APR70



Part No:	11668584
Designation	Press tool
Class	AXL
Hook no	-----
Used when	Removal and installation of bearings

Machines/Components
APR70



Part No:	88830211
Designation	Press tool
Class	EXT
Used when	For pressing rubber bearing on FS cylinder
Remark	127mm

Machines/Components
A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)

5. Pullers and Pressing equipment



Part No:	88830212
Designation	Press tool
Class	EXT
Used when	For pressing rubber bearing on FS cylinder
Remark	160mm

Machines/Components

A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534)



Part No:	11668585
Designation	Press tool
Class	AXL
Hook no	-----
Used when	Removal and installation of bearings

Machines/Components

APR70A, APR90, APR90A



Part No:	11668586
Designation	Press tool
Class	AXL
Hook no	-----
Used when	Installation of clutch pack

Machines/Components

APR70A, APR90, APR90A

5. Pullers and Pressing equipment



Part No:	11668370
Designation	Extractor
Class	TRA
Hook no	-----
Used when	Removal of retaining ring

Machines/Components

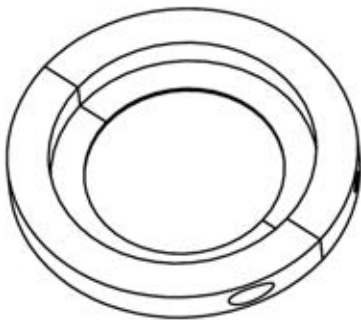
TLB2 4WD-A, TLB2 4WD-B, TLB2 SD 4WD



Part No:	11666178
Designation	Puller
Class	HYD
Hook no	-----
Used when	Used for bushing in main valve

Machines/Components

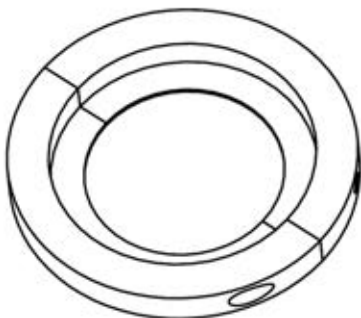
EC200B, EC210B, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800



Part No:	88830010
Designation	Puller
Class	TRA
Hook no	-----
Used when	Removing gear
Remark	Ø 170 mm

Machines/Components

HTE1160



Part No:	88830011
Designation	Puller
Class	TRA
Hook no	-----
Used when	Removing gear
Remark	Ø 135 mm

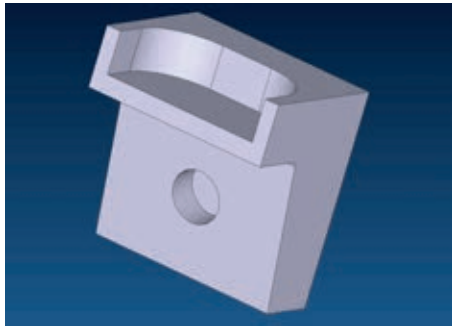
Machines/Components

A25D, HTE1160, HTE840

5. Pullers and Pressing equipment

	Part No: Designation Class Hook no Used when	11668587 Installation tool AXL ----- Installation of bearing outer ring
Machines/Components APR70	Part No: Designation Class Hook no Used when	11668588 Installation tool AXL ----- Installation of bearing outer ring
	Part No: Designation Class Hook no Used when	14524910 Extractor HYD ----- Main control valve regeneration sleeve, removal
Machines/Components EC460B LC, EC700B HR, EC700B LC		

5. Pullers and Pressing equipment



Part No:	14638500
Designation	Installation tool
Class	EXT
Used when	For proper sensor alignment of swing lock.



Part No:	43823012
Designation	Puller
Class	BAS
Used when	To remove the tooth sleeves from the cutting drum
Remark	Delivered together with machine

Machines/Components
MT2000



Part No:	43823020
Designation	Extractor
Class	BAS
Used when	To remove the tooth sleeves from the cutting drum
Remark	Delivered together with machine

Machines/Components
MT2000



Part No:	80762446
Designation	Puller
Class	BAS
Used when	To remove the cutting teeth from the cutting drum
Remark	Delivered together with machine

Machines/Components
MT2000

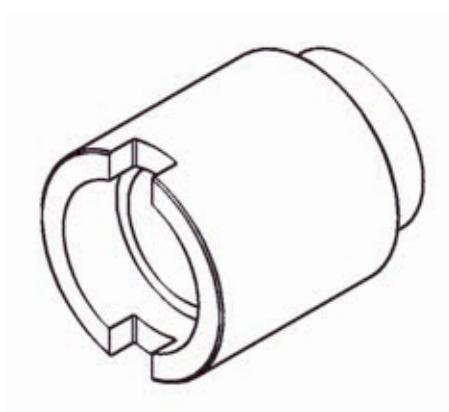
5. Pullers and Pressing equipment



Part No:	43936764
Designation	Puller
Class	BAS
Used when	Installing/removing wedge from edger guide.
Remark	Delivered together with machine

Machines/Components

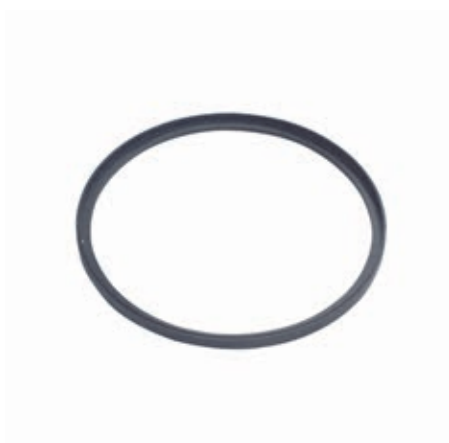
Omni 318



Part No:	43898410
Designation	Rotation tool
Class	BAS
Used when	Used to rotate the drum
Remark	Delivered together with machine

Machines/Components

MT2000



Part No:	14545035
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Track gearbox floating seal, installation
Remark	10,7 Kg

Machines/Components

EC700B HR, EC700B LC, EC700C L, EC700C LD

5. Pullers and Pressing equipment



Part No:	11667001
Designation	Handle
Class	EXT
Hook no	9989356
Used when	Bearing and seals, replacing
Remark	L=214mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH56F, AH56H (56043), AH56I (56044), AH56J (56045), AH63, AH64, AH64E, AH64K, AH64P (56040), AH64Q (56041), AH64R (56042), AHW64M, AHW64N, AHW71, AHW71P, AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB40C, AWB41, AWB50, D1.6A, D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), D2.0A, D2.0D, D2.2A, D2.2D, D3.1A, D3.4A, D3.4D, EC200B, EC55C, EC60C, EW60C, FL1002, FL802, FL852, FL862, FL992, FL-IL1, FL-IL2, HB100, HB1100, HB150, HB1700, HST75, HT205, HT210, HT220, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE400, HTE840, HTL220, HTL305, L110F, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220D, L220E, L220F, L220G, L330C, L330C LL, L330D, L330E, L350F, L45F, L45G, L50B, L50D, L50E, L50F, L50G, L60F, L70C, L70D, L70F, L90F, MC110B, MT-L3045, PT1506, PT1560, PT1562, PT1563, PT1760, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), T450D, TD103, TD40, TD63, TD73, TLB1 4WD-A



Part No:	11667010
Designation	Plug
Class	EXT
Hook no	9989357
Used when	Bearing and seals, replacing

Machines/Components

8421H-19, 8421H-21, 8421H-5, AH56E, AH56F, AH56G, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, AWB10, AWB15, AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, D6H, FL802, FL-IL1, FL-IL2, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE400, HTL220, L110F, L120F, L330C, L330C LL, L330D, L330E, L60F, L70F, L90F, PT1562, PT1563, PT1862, PT1863

6. Drifts



Part No:	11667050
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=50mm

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), HST75, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTL220, L50B, L50D, L50E, L70C, L70D, T450D



Part No:	11667055
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=55mm

Machines/Components

HST75, L50D, L50E, TD40



Part No:	11667060
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=60mm

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB10, D1.2A, D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), FL-IL1, FL-IL2, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE400, HTL220, L50B, L50D, L50E, L60F, L70C, L70D, L70F, PT1506, PT1563, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

	Part No:	11667065
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=65mm

Machines/Components

A35D, A40D, AWB15, HST75, HTE110, HTE120, HTE125, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTL220, L110F, L120F, L50D, L50E, L60F, L70F, L90F, PT1760

	Part No:	11667070
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=70mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, AWB41, BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D1.6A, D12C, D12D, D2.0A, D2.0D, D2.2A, D2.2D, D9A, D9B, HST75, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L330C, L330C LL, L330D, L330E, L50D, L50E, PT1560, PT1562, PT1760, PT1860, PT1862

	Part No:	11667075
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=75mm

Machines/Components

AWB10, D3.1A, D3.4A, D3.4D, EC55C, EC60C, EW60C, HTE110, HTE120, HTE125, L150G, L180G, L220G, PT1506, PT1563, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TLB1 4WD-A

6. Drifts



Part No:	11667080
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=80mm

Machines/Components

A25C, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AWB15, AWB20, D1.2A, D10B, HT205, HT210, HT220, HTE110, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L50D, L50E, L60F, L70F, L90F, MC110B, TD103



Part No:	11667085
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=85mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E, AH56F, AH56G, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, EL70, EW140C, EW160C, HST75, HTE110, HTE120, HTE125, L330C, L330C LL, L330D, L330E, L350F, L50D, L50E, L60F, L70F, L90F



Part No:	11667090
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=90mm

Machines/Components

A35D, A40D, AWB10, AWB15, FL802, FL-IL1, FL-IL2, HST75, HT205, HT210, HT220, HTE110, HTE1160, HTE120, HTE125, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTE840, HTL220, HTL305, L50D, L50E, PT1506, PT1560, PT1563, PT1760, PT1860, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667095
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=95mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AWB10, HTE1160, HTE300, HTE305 (22534, 22544), HTE400, HTE840, L110F, L120F, L50E, L60F, MC110B, MC80B, MC90B, PT1506, PT1560, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667100
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=100mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB10, AWB30, AWB31, AWB40B, AWB41, AWB50, D1.6A, D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16F (15050684), D16H (15050683), D16H (15117877), D2.0A, D2.0D, D2.2A, D2.2D, EC200B, FL802, HB1100, HB1700, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE400, HTL220, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220E, L220G, L330C, L330C LL, L330D, L330E, PT1563, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667104
Designation	Drift plate
Class	ENG
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=104mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, AWB10, HT205, HT210, HT220, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE305 (22566), HTL220, HTL305, L330C, L330C LL, L50D, L50E, TD40

6. Drifts



Part No:	11667105
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=105mm

Machines/Components

A35E, A35E FS, A40E, A40E FS, ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), FL852, FL862, FL-IL1, FL-IL2, HTE110, HTE120, HTE125, PT1862



Part No:	11667110
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=110mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AH56E, AH56F, AH56G, AH56H (56043), AH56I (56044), AH56J (56045), AH63, AH64, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AH64P (56040), AH64Q (56041), AH64R (56042), AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, AWB10, AWB15, AWB40, AWB41, FL802, FL852, FL862, FL-IL1, FL-IL2, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE305 (22566), HTL220, HTL305, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220D, L220E, L220F, L220G, L330C, L330C LL, L330D, L330E, L45F, L45G, L50F, L50G, L60F, L70C, L70D, L70F, L90F, MT-L3045, PT2509 (22401)



Part No:	11667115
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=115mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A35E, A35E FS, A40E, A40E FS, AWB20, AWB25, AWB30, AWB31, D3.1A, D3.4A, D3.4D, EC55C, EC60C, EW60C, FL802, FL852, FL862, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L330C, L330C LL, L330D, L330E, PT1506, PT1560, PT1562, PT1860, PT1862, PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667118
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=118mm

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), FL-IL1



Part No:	11667120
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=120mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AWB10, AWB40, AWB40B, AWB41, AWB50, FL-IL1, FL-IL2, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE305 (22566), HTE400, HTL220, HTL305, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L330C, L330C LL, L330D, L330E, L60F, L70F, L90F, PT1563, PT1760, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667125
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=125mm

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56F, AH63, AH64, AH64E, AH64K, AHW64N, AHW71M, AHW71P, ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB15, AWB20, AWB40, FL1002, FL802, FL852, FL862, FL992, FL-IL1, FL-IL2, HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L150G, L180E HL, L180F HL, L180G, L220G, L60F, L70F, L90F, PT1506, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

6. Drifts



Part No:	11667130
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=130mm

Machines/Components

AH54, AH63, AHW71, AWB15, AWB20, AWB25, D6H, D8H, EV80, FL802, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE400, HTL220, L150D, L150E, L150G, L180D, L180D HL, L180E, L180E HL, L180F HL, L180G, L220E, L220G, L330C, L330C LL, L330D, L330E, L350F, L70C, L70D, TD122



Part No:	11667135
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=135mm

Machines/Components

AH54, AH63, AWB25, FL852, FL862, L110F, L120F, L60F, L70F, L90F, TLB1 4WD-A



Part No:	11667140
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=140mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AH63, AHW71, AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB20, AWB25, AWB30, AWB31, AWB40B, D12C, EV80, FL-IL1, FL-IL2, HTE1160, HTE840, L330C, L330C LL, L330D, L330E, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, PT1560, PT1860, PT1862, TD122



Part No:	11667145
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=145mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25E, A25F (37214), A30D, A30E, A30F (37432), AWB40, HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L330C, L330C LL, L330D, L330E, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, TD103



Part No:	11667150
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=150mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), AHW71, AWB10, AWB20, AWB25, AWB30, AWB31, AWB40, TD63, TD73



Part No:	11667155
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=155mm

Machines/Components

AWB40B, HTE400



Part No:	11667160
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=160mm

Machines/Components

A35E, A35E FS, A35F (37142), A40E, A40E FS, A40F (37535), AH63, AWB10, AWB40, FL1002, FL992, L350F, L50E

6. Drifts



Part No:	11667165
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=165mm

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH63, AWB20, AWB25, L150G, L180E HL, L180F HL, L180G, L220G



Part No:	11667170
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=170mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, A25D, A25E, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), AWB40, AWB40B, AWB40C, AWB41, HTE400, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220F, L220G, L330C, L330C LL, L330D, L330E, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667185
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=185mm

Machines/Components

HTE400



Part No:	11667190
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=190mm

Machines/Components

A25F (37214), A30F (37432), A35E, A35E FS, A35F (37142), A40E, A40E FS, A40F (37535), AH56H (56043), AH56I (56044), AH56J (56045), AH63, AH64P (56040), AH64Q (56041), AH64R (56042), EW140, EW140C, EW160, EW160C, FL802



Part No:	11667195
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=195mm

Machines/Components

AH56H (56043), AH56I (56044), AH56J (56045), AH63, AH64P (56040), AH64Q (56041), AH64R (56042), AWB25, L60F, L70F, L90F, MT-L3045



Part No:	11667200
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=200mm

Machines/Components

A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH63, AWB15, L330D, L330E, L350F, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11667220
Designation	Drift plate
Class	EXT
Hook no	9999846
Used when	Bearing and seals, replacing
Remark	D=220mm

Machines/Components

AWB30, AWB31, AWB50, D4D, D6D, EC200B

6. Drifts



Part No:	11667264
Designation	Drift plate
Class	EXT
Hook no	9999846
Used when	Bearing and seals, replacing
Remark	D=264mm

Machines/Components

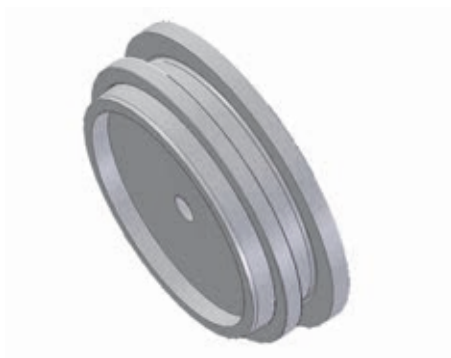
AWB41, L220D, L220E, L220F, L330D, L330E



Part No:	11667400
Designation	Drift plate
Class	AXL
Hook no	9999846
Used when	Hub seal (casette), installing
Remark	D=177 mm (6.97 in)

Machines/Components

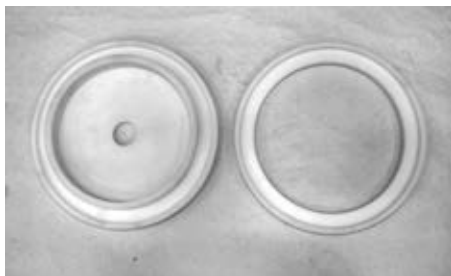
AWB15, AWB20, AWB25, AWB30, L60F, L70F, L90F



Part No:	88830061
Designation	Drift
Class	AXL
Hook no	9999814
Used when	Installing seal ring in rear axle suspension

Machines/Components

L110F, L120F, L150F, L150G, L180F, L180F HL, L180G



Part No:	88830217
Designation	Drift plate
Class	AXL
Used when	Installing seal ring in rear axle suspension.
Remark	Drift plate and drift ring. 238mm. Replaces 88830064

Machines/Components

L110F, L120F, L150F, L150G, L180F, L180F HL, L180G



Part No:	6999001
Designation	Handle
Class	EXT
Hook no	9989357
Used when	Bearing and seals, replacing
Remark	L=200mm

Machines/Components

AH31, AH54, AH63, AHW71, D10B, EV80, HT130, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE120, HTE125, HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L330C, L330C LL, L45F, L45G, L50F, L50G, L60E, L70E, L90E, PT1560, PT1562, PT1660, PT1760, PT1860, PT1862, TD103, TD122, TD63, TD73



Part No:	6999002
Designation	Handle
Class	EXT
Hook no	9989357
Used when	Bearing and seals, replacing
Remark	L=400mm

Machines/Components

AH54, AH63, HT90, HT93, HT95



Part No:	6999003
Designation	Handle
Class	EXT
Hook no	9989357
Used when	Bearing and seals, replacing
Remark	L=600mm

Machines/Components

A35D, A40D, L110E, L120E, L90E



Part No:	6999004
Designation	Handle
Class	EXT
Hook no	9989357
Used when	Bearing and seals, replacing
Remark	L=190mm

Machines/Components

A25F (37214), A30F (37432), AH56H (56043), AH56I (56044), AH56J (56045), AH64P (56040), AH64Q (56041), AH64R (56042), D4D, D4E, D4H, D6D, D6E, D6H, D8H, HT130, PT1506, PT1560, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TD122, TD63, TD73

6. Drifts

	Part No:	6999005
	Designation	Handle
	Class	EXT
	Hook no	9989357
	Used when	Bearing and seals, replacing
	Remark	L=400mm

	Part No:	6999007
	Designation	Handle
	Class	EXT
	Hook no	9989353
	Used when	Bearing and seals, replacing
	Remark	L=200mm

Machines/Components

D10B, HT130, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L330C, L330C LL, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90D OR, L90E, PT1506, PT1560, PT1563, PT1760, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TD103, TD63, TD73

	Part No:	6999009
	Designation	Plug
	Class	EXT
	Hook no	9989355
	Used when	Bearing and seals, replacing

	Part No:	6999010
	Designation	Plug
	Class	EXT
	Hook no	9989355
	Used when	Bearing and seals, replacing

Machines/Components

8421H-19, 8421H-21, 8421H-5, AH54, AHW71, AWB20, AWB25, AWB30, AWB31, AWB40, EV80, FL802, HT205, HT210, HT220, HT90, HT93, HT95, HTE110, HTE120, HTE125, HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE300,

6. Drifts

HTE305 (22534, 22544), HTE305 (22566), HTL305, L330D, L330E, L50E, MS-E3050, MS-E3060, MS-E3070



Part No:	9993718
Designation	Guide
Class	EXT
Hook no	9989355
Used when	Puller bolt in plate, guide
Remark	UNC 1"

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, D10B, HT205, HT210, HT220, HT93, HT95, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, TD103, TD122



Part No:	6999015
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=15mm

Machines/Components

D10B, TD103, TD63, TD73



Part No:	6999018
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=18mm

Machines/Components

TD63

6. Drifts

	Part No:	6999020
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=20mm

Machines/Components

D10B, HT130, TD103

	Part No:	6999022
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=22mm

Machines/Components

FL802, HT130, TD63

	Part No:	6999024
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=24mm

Machines/Components

PT1506, PT1560, PT1760, PT1860, PT1862, PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

	Part No:	6999025
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=25mm

Machines/Components

D10B, L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L330C, L330C LL, L330D, L330E, L50D, L50E, L60E, L70D, L70E, L90D, L90D OR, L90E, PT1506, PT1560, PT1860, PT1862, PT2509 (22401), PT2509 (22671), TD122

	Part No:	6999028
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=28mm

Machines/Components

D10B, PT1506, PT1560, PT1563, PT1760, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TD103

	Part No:	6999030
	Designation	Drift plate
	Class	EXT
	Hook no	9999811
	Used when	Bearing and seals, replacing
	Remark	D=30mm

Machines/Components

D4D, D4E, D4H, D6D, D6E, D6H, D8H, TD122, TD63, TD73

6. Drifts



Part No:	6999032
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearings and seals, changing
Remark	D = 32 mm

Machines/Components

PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	6999034
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=34mm

Machines/Components

L110E, L120D, L120E, L150D, L150E, L180D, L180D HL, L180E, L180E HL, L330C, L330C LL, L330D, L330E, L50D, L60E, L70D, L70E, L90D, L90D OR, L90E, PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	6999035
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=35mm

Machines/Components

TD103, TD63, TD73



Part No:	6999038
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=38mm

Machines/Components

D10B, D4D, D4E, D4H, D6D, D6E, D6H, D8H, FL802, TD103



Part No:	6999040
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=40mm

Machines/Components

AH54, HT130, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTL220



Part No:	6999044
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=44mm

Machines/Components

D10B, TD103, TD63, TD73

6. Drifts



Part No:	6999045
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=45mm

Machines/Components

MC110B, MC80B, MC90B



Part No:	6999048
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=48mm

Machines/Components

HT130, HT90, PT1760



Part No:	6999050
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=50mm

Machines/Components

HT205, HT210, HT220, HT90, HT93, HT95, HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L110E, L120E, L50D, L50E, L60E, L70E, L90E, PT1560, PT1562, PT1660, PT1760, PT1860, PT1862



Part No:	6999052
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=52mm

Machines/Components

HT130, HT93, HT95, HTE110, HTE120, HTE125, PT1760, TD63



Part No:	6999055
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=55mm

Machines/Components

HT130, MS-E3050, MS-E3060, MS-E3070, TD122



Part No:	6999057
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=57mm

Machines/Components

HTE202, HTE204 (22547), HTE205 (22521), HTE206, HTE210 (22553, 22535), HTE220 (22522), HTE305 (22566), HTL305, TD63

6. Drifts



Part No:	6999058
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=58mm

Machines/Components

HTE305 (22566), HTL305, PT1506, PT1560, PT1562, PT1563, PT1660, PT1760, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), TD103, TD122



Part No:	6999060
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=60mm

Machines/Components

8421H-19, 8421H-21, 8421H-5, AWB20, AWB25, AWB30, AWB31, HT130, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE205 (22521), HTE210 (22553, 22535), HTE220 (22522), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305, L50D, TD122



Part No:	6999062
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=62mm

Machines/Components

HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305



Part No:	6999065
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=65mm

Machines/Components

AH54, AHW71, FL802, HT130, HT90, HT93, HT95, PT1560, PT1760, PT1860, PT1862, TD103, TD122, TD63, TD73



Part No:	6999068
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=68mm

Machines/Components

HT93, HT95, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L45F, L45G, L50F, L50G, MT-L3045, TD103, TD122, TD63, TD73



Part No:	6999070
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=70mm

Machines/Components

HT205, HT210, HT220, L60E, L70E, L90E, PT1560, PT1660, PT1760, PT1860, PT1862

6. Drifts



Part No:	6999072
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=72mm

Machines/Components

HT90, HT93, HT95, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTL220, TD122



Part No:	6999075
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=75mm

Machines/Components

HT130, HT90, HT93, HT95, HTE110, HTE120, HTE125



Part No:	6999080
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=80mm

Machines/Components

AH54, AH63, AWB20, AWB25, AWB30, AWB31, HT130, HT205, HT210, HT220, HT90, HT93, HT95, L45F, L45G, L50F, L50G



Part No:	6999085
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=85mm

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, HT130, HT90, HT93, HT95



Part No:	6999088
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=88mm

Machines/Components

PT1560, PT1760, PT1860, PT1862



Part No:	6999090
Designation	Drift plate
Class	EXT
Hook no	9999811
Used when	Bearing and seals, replacing
Remark	D=90mm

Machines/Components

AH54, AH63, AHW71, EV80, HT205, HT210, HT220, HT93, HT95, HTE110, HTE120, HTE125, L45F, L45G, L50F, L50G, PT1560, PT1660, PT1860, PT1862



Part No:	9991801
Designation	Handle
Class	EXT
Hook no	9999835
Used when	Seal, installing
Remark	L=200mm D=17,8mm

Machines/Components

D12C, TD164



Part No:	9992000
Designation	Handle
Class	EXT
Hook no	9999835
Used when	Bearing, installing
Remark	L=200mm D=24,8mm

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AH54, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4D, D5D, D7D, D7E, D9A, D9B, G970, G976, G990, L150E, L350F, T450D

6. Drifts



Part No:	9993678
Designation	Press plate
Class	AXL
Hook no	9999811
Used when	Bearing on countershaft, installing

Machines/Components
AH54



Part No:	9993707
Designation	Drift
Class	EXT
Hook no	9999846
Used when	Crankshaft rear oil seal, installing

Machines/Components
A30C, A35C, A40, D10B, TD102, TD103, TD122



Part No:	9998194
Designation	Drift
Class	ENG
Hook no	9988580
Used when	Injection timing adjuster, reconditioning

Machines/Components
TD103



Part No:	9998195
Designation	Drift
Class	ENG
Hook no	9999814
Used when	Injection timing adjuster, reconditioning

Machines/Components
TD103



Part No:	9998196
Designation	Drift
Class	ENG
Hook no	9999846
Used when	Injection timing adjuster, reconditioning

Machines/Components
TD103



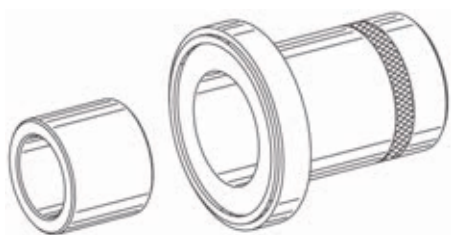
Part No:	8240-02350
Designation	Installation tool
Class	TRA
Used when	Installation of needle bearing

Machines/Components
2HL270, 2HL290



Part No:	2250320
Designation	Handle
Class	AXL
Hook no	-----
Used when	Axle, reconditioning, used for different drifts

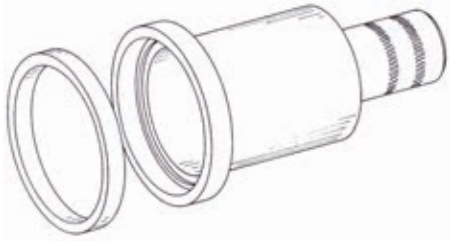
Machines/Components
APB745, APB755, APB755-HD, APLB745, APLB755, APLB755-HD, L20B, L25B, L30B, L35B, L40B, L45B, MT-E3050, MT-E3060, MT-E3070, MT-L3045



Part No:	2907340
Designation	Drift
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components
APB755-HD, APLB745, APLB755, APLB755-HD, L40B, L45B

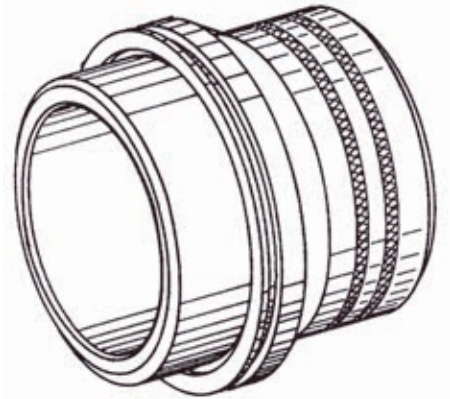
6. Drifts



Part No:	5235714
Designation	Drift
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

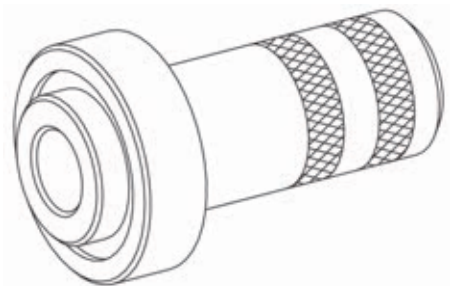
L40B, L45B



Part No:	11370460
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

L20B, L25B, L30B, L35B



Part No:	11370465
Designation	Press tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

Machines/Components

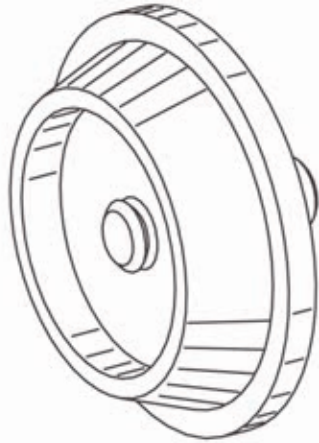
EC140D L, EC300D L, L20B, L25B, L30B, L35B



Part No:	11370466
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

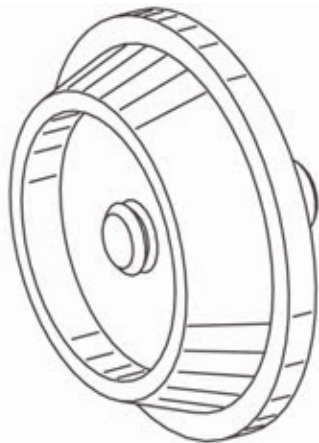
Machines/Components

L20B, L25B, L30B, L35B



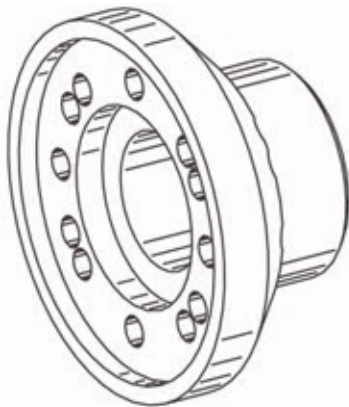
Part No:	2291222
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of outer ring for bearing

Machines/Components
AV230



Part No:	11370467
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Axle, reconditioning

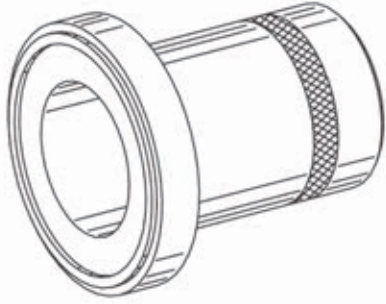
Machines/Components
L20B, L25B, L30B, L35B



Part No:	2907328
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of sealing

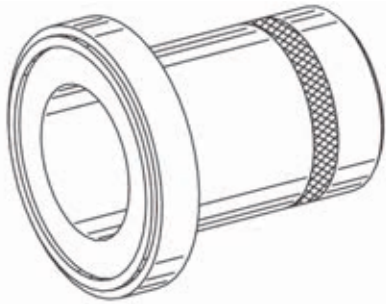
Machines/Components
MT-L3045

6. Drifts



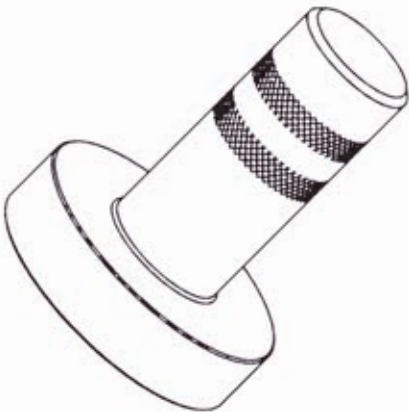
Part No:	11668562
Designation	Drift
Class	AXL
Hook no	-----
Used when	Shaft seal, installation

Machines/Components
APR70



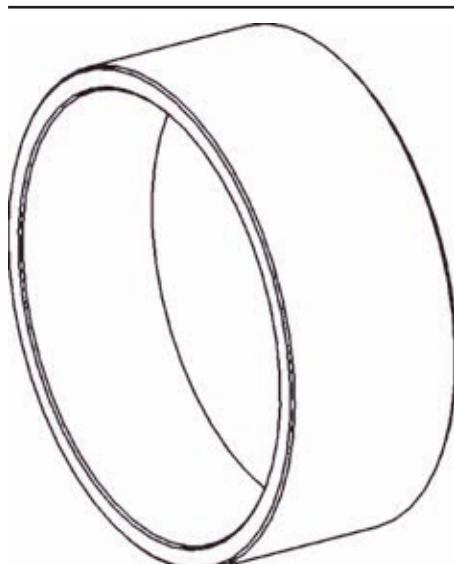
Part No:	11668563
Designation	Drift
Class	AXL
Hook no	-----
Used when	Shaft seal, installation

Machines/Components
APR70A, APR90, APR90A



Part No:	88830082
Designation	Installation drift
Class	TRA
Used when	Installing pressure ring

Machines/Components
2HL270, 2HL290



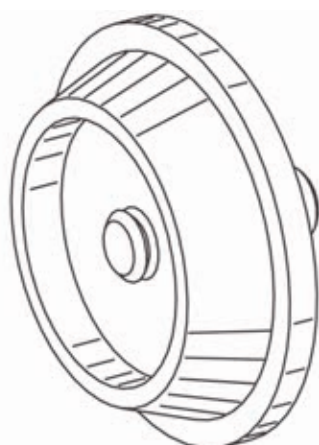
Part No:	88830081
Designation	Installation drift
Class	TRA
Used when	Installing sheet on output flange if removed

Machines/Components
2HL270, 2HL290, MT-L3045



Part No:	11668564
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Thrust plate, installation

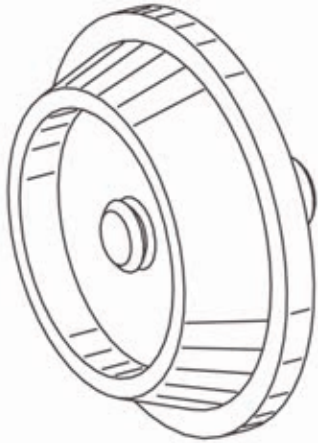
Machines/Components
APR70, APR70A, APR90, APR90A



Part No:	11668589
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing outer ring
Remark	Used together with 2250320

Machines/Components
APR70A, APR90, APR90A

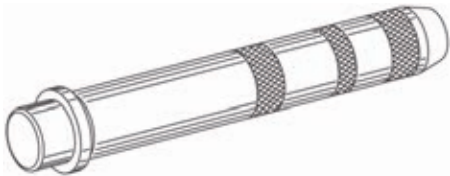
6. Drifts



Part No:	11668591
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing outer ring
Remark	Used together with 2250320

Machines/Components

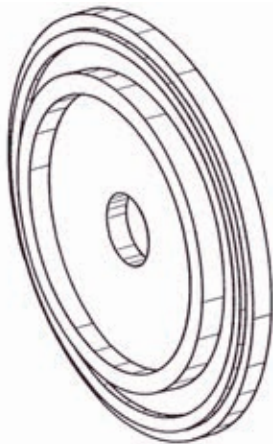
APR70



Part No:	11668507
Designation	Handle
Class	AXL
Used when	Axle, reconditioning

Machines/Components

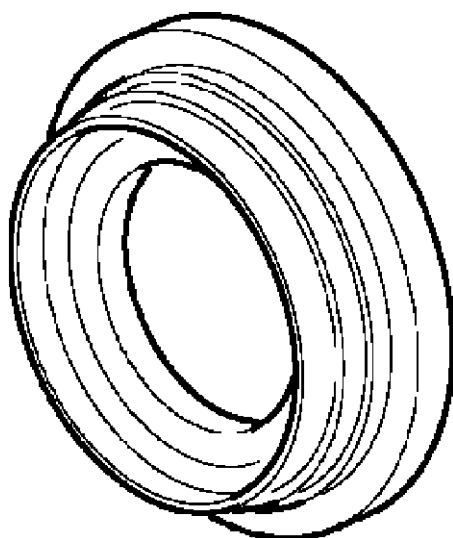
APB745, APB755, APB755-HD, APLB745, APLB755, APLB755-HD, L20B, L25B, L30B, L35B, MT-L3045



Part No:	11668500
Designation	Drift plate
Class	AXL
Used when	Axle, reconditioning

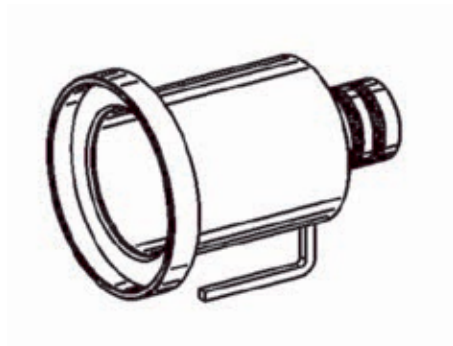
Machines/Components

APB745, APB755, APLB745, APLB755, APLB755-HD



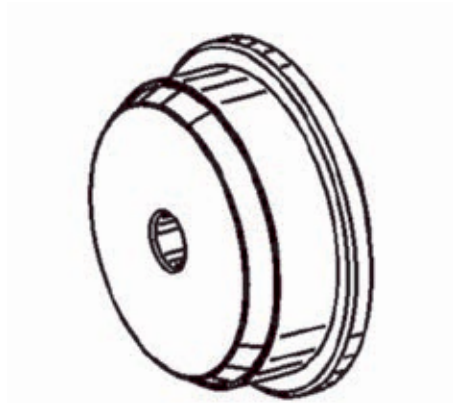
Part No:	11668501
Designation	Drift plate
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
EW140



Part No:	11668550
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installing screen sheet onto hub carrier

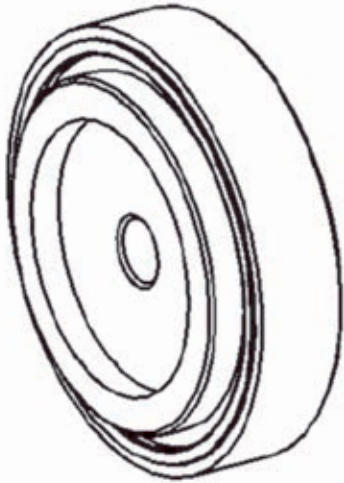
Machines/Components
APB745, APB755, APB755-HD



Part No:	11668551
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring or shaft seal
Remark	Used with 11668507

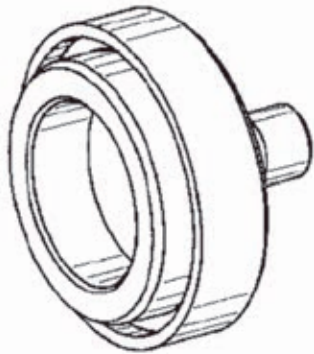
Machines/Components
APB755-HD, APLB755-HD

6. Drifts



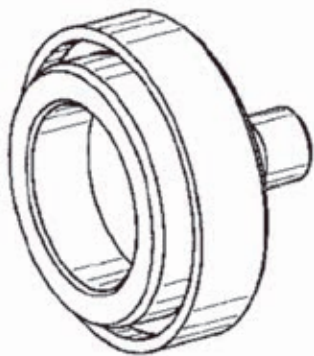
Part No:	11668552
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring or shaft seal
Remark	Used with 11668507

Machines/Components
APB755-HD



Part No:	11668553
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of shaft seal
Remark	Used with 2250320

Machines/Components
APB755-HD



Part No:	11668554
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring or shaft seal

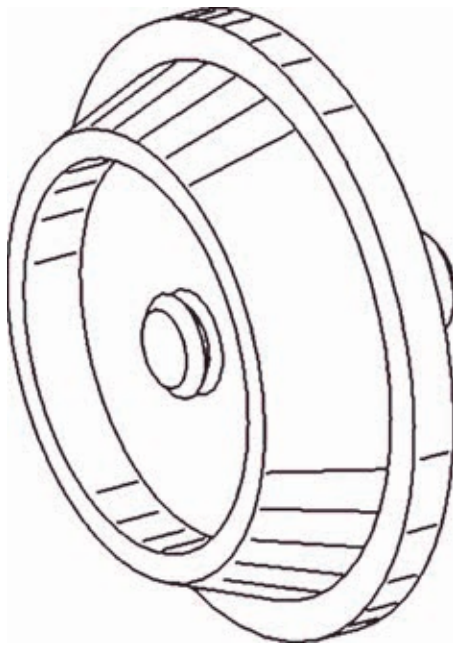
Machines/Components
APB745, APB755



Part No:	11668555
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring
Remark	Used with 2250320

Machines/Components

APLB745, APLB755, APLB755-HD, MS-E3050, MS-E3060, MS-E3070



Part No:	11668556
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring
Remark	Used with 2250320

Machines/Components

APB755-HD, APLB745, APLB755, APLB755-HD, MT-E3050, MT-E3060, MT-E3070



Part No:	11668558
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring
Remark	Used with 2250320

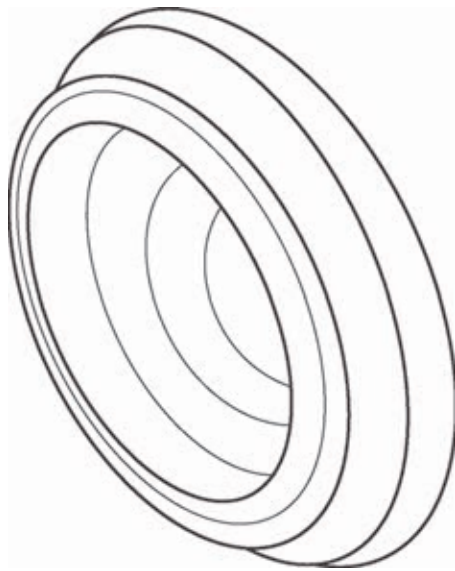
6. Drifts



Part No:	5235720
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing ring or shaft seal
Remark	Used with 2250320

Machines/Components

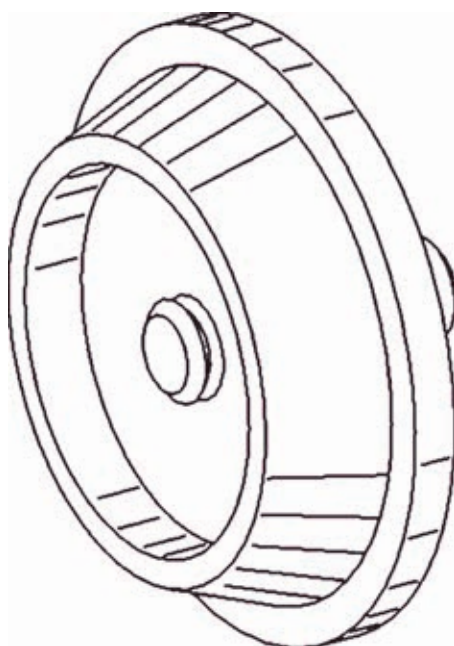
APB755-HD, APLB745, APLB755, APLB755-HD, MT-E3050, MT-E3060, MT-E3070, MT-L3045



Part No:	2288674
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for insert of bearing ring
Remark	Used with 11668507

Machines/Components

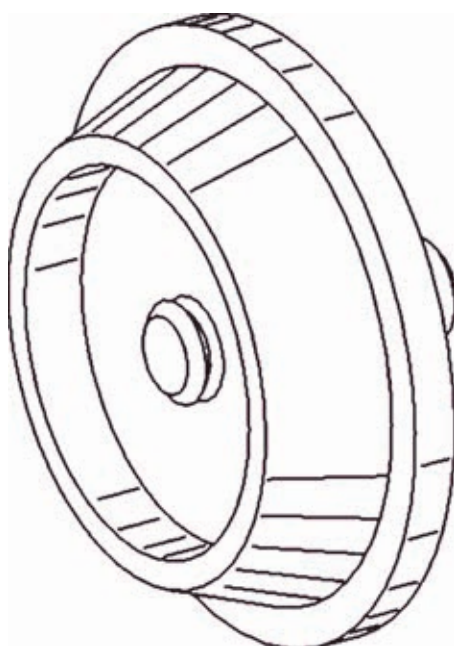
APB745, APB755



Part No:	88830078
Designation	Drift
Class	AXL
Used when	Installing bearing ring

Machines/Components

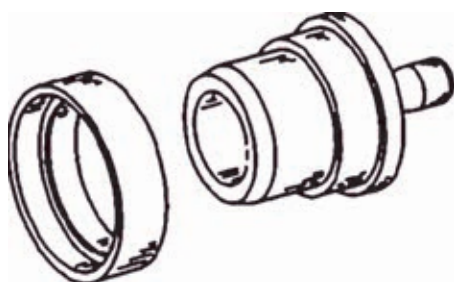
MS-E3050, MS-E3060, MS-E3070



Part No:	5235901
Designation	Drift
Class	AXL
Used when	Installing bearing ring

Machines/Components

MS-E3050, MS-E3060, MS-E3070, MT-L3045

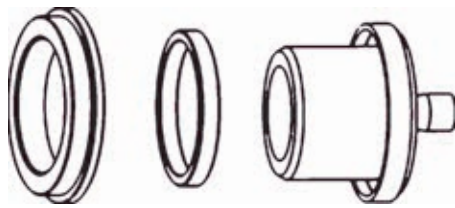


Part No:	5235907
Designation	Drift
Class	AXL
Used when	Installing bushing and sealing in axle housing

Machines/Components

MS-E3050, MS-E3060, MS-E3070

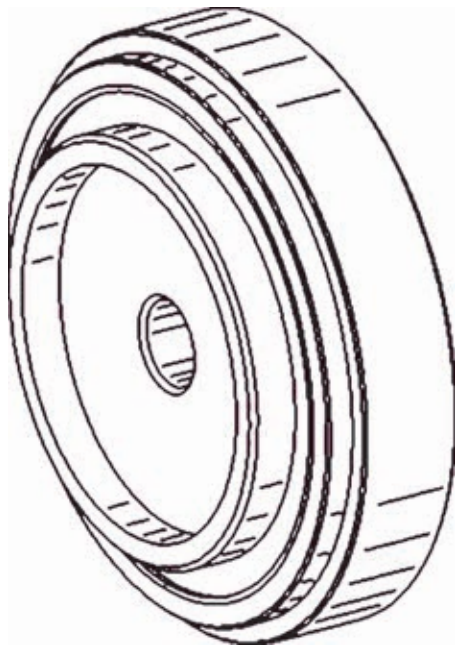
6. Drifts



Part No:	5235717
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installing bushing and sealing in axle housing
Remark	Used with 2250320

Machines/Components

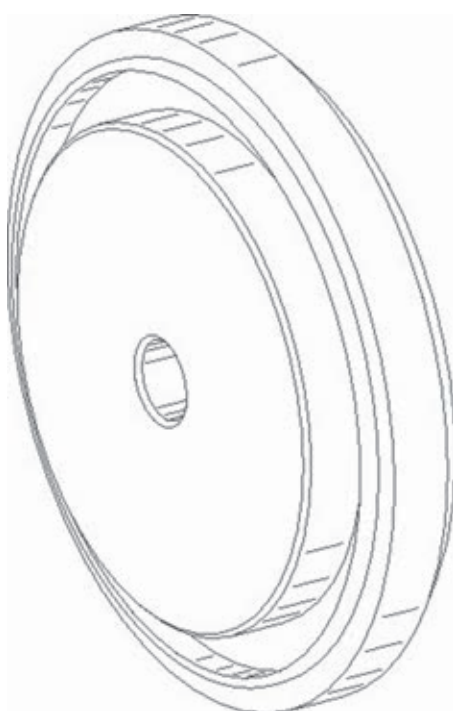
APLB745, APLB755, APLB755-HD, MS-E3050, MS-E3060, MS-E3070



Part No:	88830077
Designation	Installation tool
Class	AXL
Used when	Installing seal ring

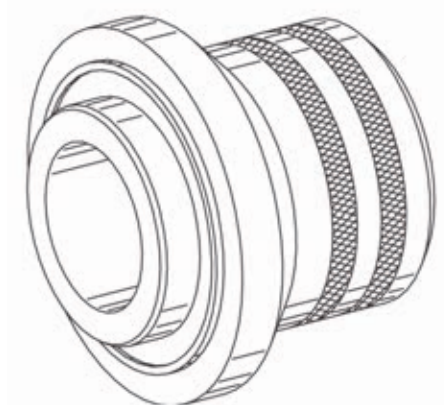
Machines/Components

MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070



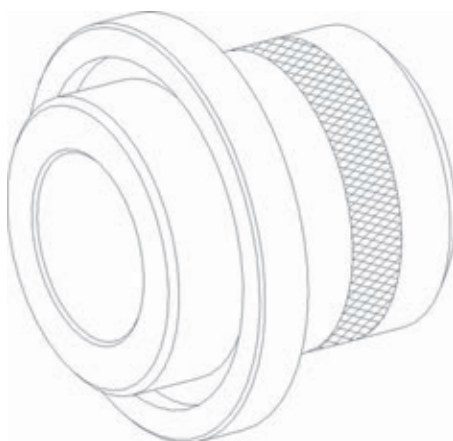
Part No:	2291184
Designation	Installation tool
Class	AXL
Used when	Installing seal ring

Machines/Components
MT-E3070



Part No:	2907327
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of sealing

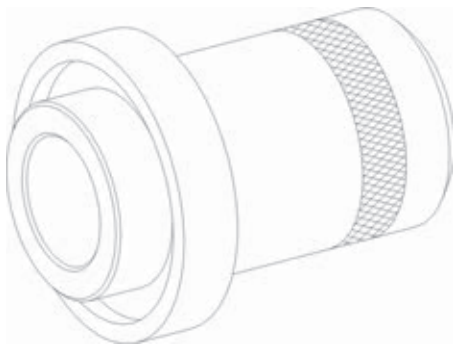
Machines/Components
AV230



Part No:	88830076
Designation	Installation tool
Class	TRA
Used when	Installing shaft seal

Machines/Components
2HL270, 2HL290, MT-L3045

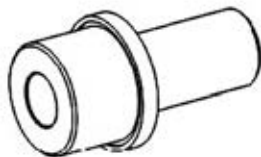
6. Drifts



Part No:	88830075
Designation	Installation tool
Class	AXL
Used when	Installing seal ring

Machines/Components

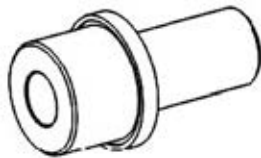
EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, MS-E3050, MS-E3060, MS-E3070, MT-E3050, MT-E3060, MT-E3070



Part No:	11668590
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of shaft seal, brake housing

Machines/Components

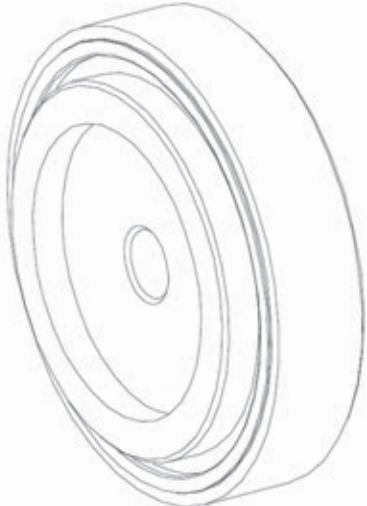
APR70



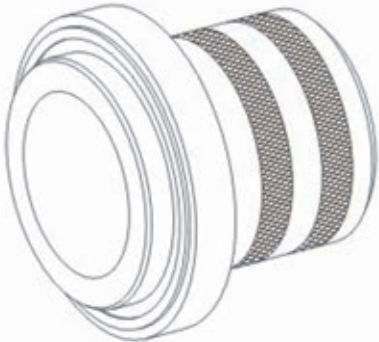
Part No:	11668592
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of shaft seal, brake housing

Machines/Components

APR70A, APR90, APR90A

	<table> <tr> <td>Part No:</td><td>88830176</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Used when</td><td>Installing hub sealing</td></tr> </table>	Part No:	88830176	Designation	Drift	Class	AXL	Used when	Installing hub sealing
Part No:	88830176								
Designation	Drift								
Class	AXL								
Used when	Installing hub sealing								

Machines/Components
MT-L3045

	<table> <tr> <td>Part No:</td><td>88830177</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Used when</td><td>Installing shaft seal</td></tr> </table>	Part No:	88830177	Designation	Drift	Class	AXL	Used when	Installing shaft seal
Part No:	88830177								
Designation	Drift								
Class	AXL								
Used when	Installing shaft seal								

Machines/Components
MT-L3045

	<table> <tr> <td>Part No:</td><td>88830178</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Used when</td><td>Installing shaft seal</td></tr> </table>	Part No:	88830178	Designation	Drift	Class	AXL	Used when	Installing shaft seal
Part No:	88830178								
Designation	Drift								
Class	AXL								
Used when	Installing shaft seal								

Machines/Components
MT-L3045

6. Drifts



Part No:	2907667
Designation	Drift
Class	AXL
Used when	Installing sealing cap

Machines/Components

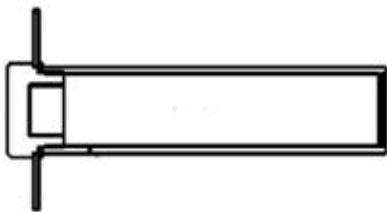
MT-L3045



Part No:	11668301
Designation	Handle
Class	EXT
Hook no	-----
Used when	Used for different drifts

Machines/Components

TLB1 2WD-A, TLB1 4WD-A



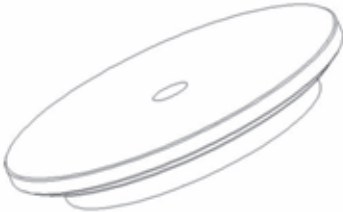
Part No:	88830198
Designation	Handle
Class	EXT
Used when	Used for different drifts



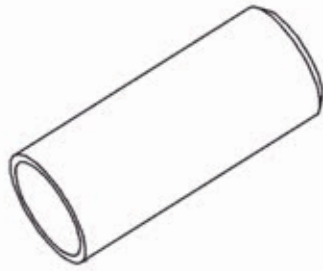
Part No:	11668302
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bushing, svivel housing

Machines/Components

26.16-A, 26.16-B, 26.22-A, 26.22-B

	<table> <tr> <td>Part No:</td><td>11668304</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Drift for seal on wheel hub</td></tr> </table>	Part No:	11668304	Designation	Drift	Class	AXL	Hook no	-----	Used when	Drift for seal on wheel hub
Part No:	11668304										
Designation	Drift										
Class	AXL										
Hook no	-----										
Used when	Drift for seal on wheel hub										
Machines/Components 26.22-A, 26.22-B, 28.32-H-A, 28.32-M-A, 28.43											
	<table> <tr> <td>Part No:</td><td>11668306</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Drift for bushes (beam trumpet)</td></tr> </table>	Part No:	11668306	Designation	Drift	Class	AXL	Hook no	-----	Used when	Drift for bushes (beam trumpet)
Part No:	11668306										
Designation	Drift										
Class	AXL										
Hook no	-----										
Used when	Drift for bushes (beam trumpet)										
Machines/Components 28.32-H-A, 28.32-M-A, 28.43											
	<table> <tr> <td>Part No:</td><td>11668308</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Drift for bearing cup (differential support)</td></tr> </table>	Part No:	11668308	Designation	Drift	Class	AXL	Hook no	-----	Used when	Drift for bearing cup (differential support)
Part No:	11668308										
Designation	Drift										
Class	AXL										
Hook no	-----										
Used when	Drift for bearing cup (differential support)										
Machines/Components 26.00-A, 26.16-A, 26.16-B, 26.22-A, 26.22-B, 28.44											
	<table> <tr> <td>Part No:</td><td>11668309</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>AXL</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Drift for bearing cone (differential housing)</td></tr> </table>	Part No:	11668309	Designation	Drift	Class	AXL	Hook no	-----	Used when	Drift for bearing cone (differential housing)
Part No:	11668309										
Designation	Drift										
Class	AXL										
Hook no	-----										
Used when	Drift for bearing cone (differential housing)										
Machines/Components 26.16-A, 26.16-B, 26.22-A, 26.22-B											

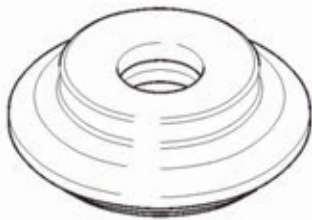
6. Drifts



Part No:	11668310
Designation	Drift
Class	TRA
Hook no	-----
Used when	Drift for bearing

Machines/Components

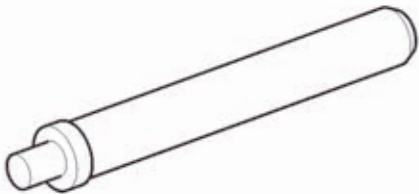
TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B



Part No:	11668313
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bearing cup, wheel hub

Machines/Components

26.00-A, 26.00-B, 26.22-A, 26.22-B, 28.32-H-A, 28.32-M-A, 28.43, 28.44



Part No:	11668314
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bushes, wheel carrier

Machines/Components

28.32-H-A, 28.32-M-A, 28.43



Part No:	11668316
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bushes (axle beam / king pin)

Machines/Components

26.00-A, 26.00-B, 26.22-A, 26.22-B



Part No:	11668317
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for spherical joint cone (king pin)

Machines/Components

BL60, BL70, BL71



Part No:	11668322
Designation	Drift
Class	TRA
Hook no	-----
Used when	Drift for inner race bearing

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B



Part No:	11668323
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bearing cone (pinion)

Machines/Components

26.00-A, 28.32-H-A, 28.32-M-A, 28.43, 28.44



Part No:	11668324
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bushes (steering cylinder)

Machines/Components

BL70, BL71

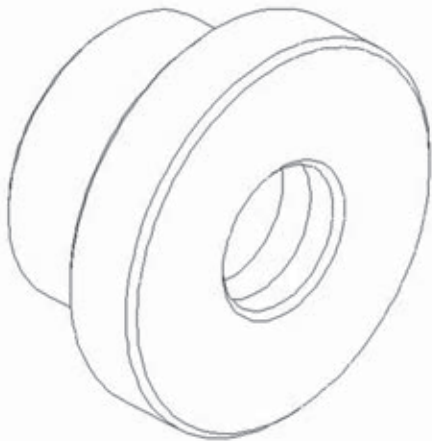
6. Drifts



Part No:	11668326
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bearing cone (pinion)

Machines/Components

26.16-A, 26.16-B, 26.22-A, 26.22-B



Part No:	11668330
Designation	Drift
Class	AXL
Hook no	-----
Used when	Used for seal (swivel housing)

Machines/Components

26.16-A, 26.16-B, 26.22-A, 26.22-B



Part No:	11668333
Designation	Drift
Class	AXL
Hook no	-----
Used when	Used for bearing cup (brake cylinder)

Machines/Components

26.00-A, 28.32-H-A, 28.32-M-A, 28.43, 28.44



Part No:	11668334
Designation	Drift
Class	TRA
Hook no	-----
Used when	Drift for seal (oil pump)

Machines/Components

TLB1 2WD-A, TLB1 4WD-A, TLB2 SD 4WD

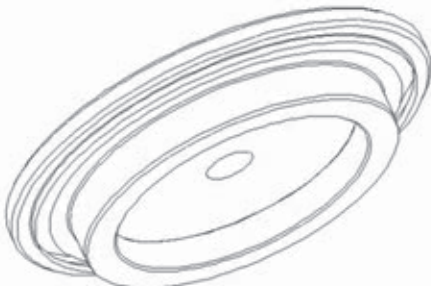
6. Drifts

	Part No:	11668337
	Designation	Drift
	Class	AXL
	Hook no	-----
	Used when	Used for seal (beam trumpet)

Machines/Components
28.32-H-A, 28.32-M-A, 28.43

	Part No:	11668338
	Designation	Drift
	Class	AXL
	Hook no	-----
	Used when	Used for pinion seal

Machines/Components
26.16-A, 26.22-A

	Part No:	11668339
	Designation	Drift
	Class	AXL
	Hook no	-----
	Used when	Used for seal (wheel hub)

Machines/Components
26.00-A, 28.44

	Part No:	11668340
	Designation	Drift
	Class	AXL
	Hook no	-----
	Used when	Used for bushes (pivot)

Machines/Components
26.00-A

6. Drifts



Part No:	11668341
Designation	Drift
Class	AXL
Hook no	-----
Used when	Esed for seal (pivot)

Machines/Components

26.00-A



Part No:	11668349
Designation	Drift
Class	TRA
Hook no	-----
Used when	Installation of sealing, frontshaft output

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 SD 4WD



Part No:	11668354
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for bearing cone (differential)

Machines/Components

BL60, BL61, BL70, BL71

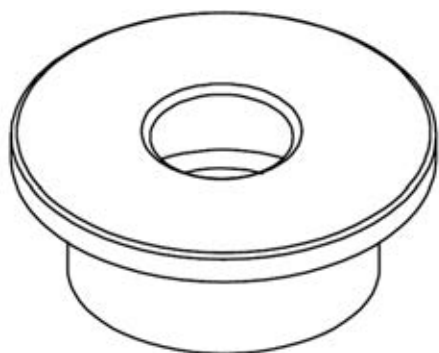


Part No:	11668356
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bushing (axle beam)

Machines/Components

BL70, BL71

6. Drifts



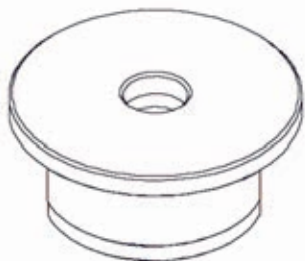
Part No:	11668320
Designation	Drift
Class	AXL
Hook no	-----
Used when	Drift for old type of seal (axle beam)

Machines/Components
BL70, BL71



Part No:	11668357
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of NEW seal (axle beam)

Machines/Components
26.22-A, 26.22-B



Part No:	11668371
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing cup, brake cylinder

Machines/Components
BL60, BL61, BL70

6. Drifts



Part No:	11668372
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bushing in self adjusting housing

Machines/Components
BL60, BL61, BL70



Part No:	11668373
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bushing in differential housing

Machines/Components
BL60, BL61, BL70



Part No:	11668374
Designation	Drift
Class	AXL
Hook no	-----
Used when	Installation of bearing cone in housing

Machines/Components
BL60, BL61, BL70

6. Drifts



Part No:	88830189
Designation	Drift
Class	AXL
Used when	Bushing axle beam, installing
Remark	Replaces 11668375

Machines/Components

26.22-A, 26.22-B



Part No:	11668376
Designation	Drift
Class	AXL
Hook no	-----
Used when	Bearing cup differential support, installing

Machines/Components

26.00-A, 28.44



Part No:	11668377
Designation	Drift
Class	AXL
Hook no	-----
Used when	Pivot axle beam bushing, installing

Machines/Components

26.00-B, 26.16-B, 26.22-B

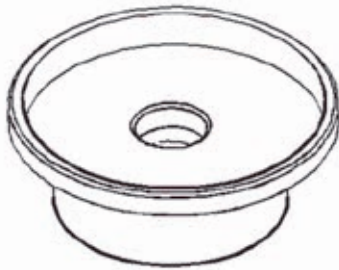
6. Drifts



Part No:	11668378
Designation	Drift
Class	AXL
Hook no	-----
Used when	Pivot axle beam seal, installing

Machines/Components

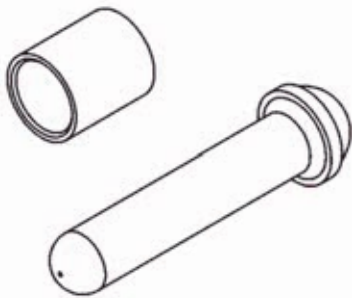
26.00-B, 26.16-B, 26.22-B



Part No:	11668381
Designation	Drift
Class	TRA
Hook no	-----
Used when	Seal ring, installing

Machines/Components

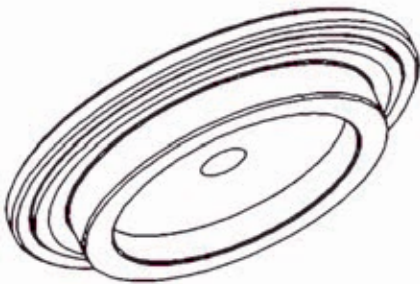
TLB1 4WD-B



Part No:	11668382
Designation	Drift
Class	AXL
Hook no	-----
Used when	Spherical joint cone, installing

Machines/Components

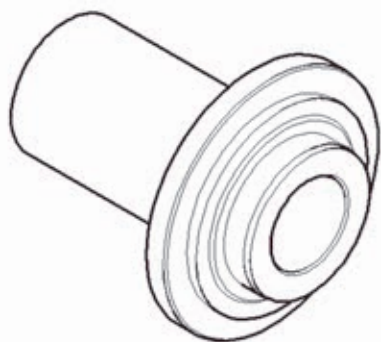
26.16-A, 26.16-B



Part No:	11668383
Designation	Drift
Class	AXL
Hook no	-----
Used when	Wheel hub seal, installing

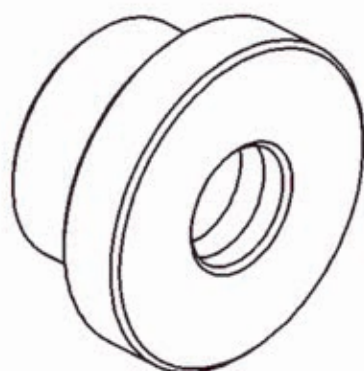
Machines/Components

26.00-A, 26.00-B, 26.16-A, 26.16-B



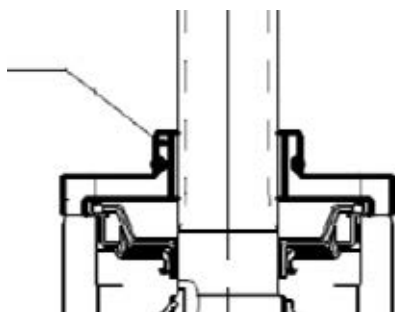
Part No:	11668384
Designation	Drift
Class	AXL
Hook no	-----
Used when	Pinion seal, installing

Machines/Components
26.00-A, 28.44

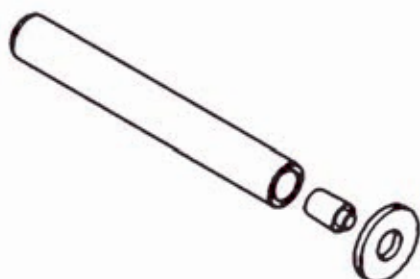


Part No:	11668385
Designation	Drift
Class	AXL
Hook no	-----
Used when	Pinion cover seal, installing

Machines/Components
26.16-B, 26.22-B



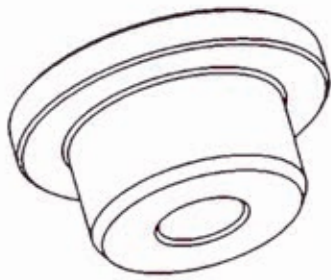
Part No:	88830199
Designation	Drift
Class	EXT
Used when	Seal input shaft, installing



Part No:	11668389
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Spring clips on self adjuster, installing

Machines/Components
26.00-A, 28.44

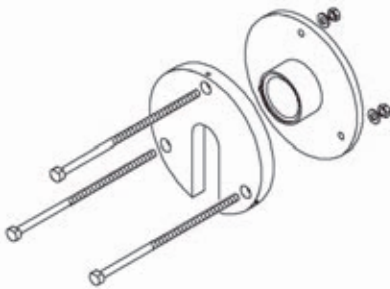
6. Drifts



Part No:	11668390
Designation	Drift
Class	AXL
Hook no	-----
Used when	Axle beam seal, installing

Machines/Components

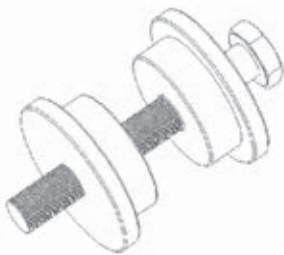
26.16-A, 26.16-B



Part No:	11668329
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Clutch assembling / disassembling

Machines/Components

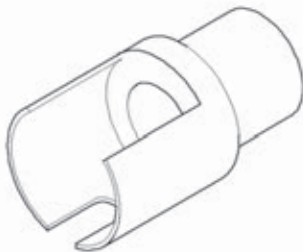
TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 SD 4WD



Part No:	11668331
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Used for bearing cups (pinion)

Machines/Components

28.32-H-A, 28.32-M-A, 28.43



Part No:	11668342
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Used for snap ring assembling

Machines/Components

TLB1 4WD-A, TLB1 4WD-B



Part No:	8920-00280
Designation	Drift
Class	TRA
Used when	Slew gearbox bearing, installing
Remark	D=115 / L=325

Machines/Components

EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, ECR145D L, ECR235C L, ECR235D L, FC2121C, FC2421C, PL4808D



Part No:	8920-00290
Designation	Drift
Class	EXT
Used when	Cylinder bush

Machines/Components

EC140B LC, EC140B LCM, EW145B, SE210 LC-3



Part No:	8920-00300
Designation	Drift
Class	EXT
Used when	Cylinder bush

6. Drifts

Machines/Components

EC220D L, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D WH, SE210 LC-3



Part No:	8920-00310
Designation	Drift
Class	EXT
Used when	Cylinder bush

Machines/Components

EC140B LC, EC140B LCM, EW145B, SE210 LC-3



Part No:	8920-00720
Designation	Drift
Class	EXT
Used when	Cylinder bush, cylinder cover, dipper arm

Machines/Components

SE210 LC-3



Part No:	8920-00730
Designation	Drift
Class	EXT
Used when	Cylinder bush, cylinder cover, dipper arm

Machines/Components

EC250D L, EC250D LR, EC250D NL, SE210 LC-3



Part No:	8920-00780
Designation	Drift
Class	EXT
Used when	Cylinder bush, cylinder cover, dipper arm

Machines/Components

SE130 W-3

6. Drifts



Part No:	8920-01250
Designation	Drift
Class	EXT
Used when	Boom and bucket cylinder bushes, installing
Remark	D=113 / L=157

Machines/Components

EC140B LC, EC140B LCM, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC



Part No:	8920-01260
Designation	Drift
Class	EXT
Used when	Dipper arm cylinder head bush, installing
Remark	D=123 / L=157

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC

	Part No:	8920-01420
	Designation	Drift
	Class	EXT
	Used when	Boom cylinder head bush, installing
	Remark	D=123 / L=165

Machines/Components

EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D L, EC380D NL

	Part No:	8920-01430
	Designation	Drift
	Class	EXT
	Used when	Dipper arm cylinder head bush, installing
	Remark	D=133 / L=179

Machines/Components

EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D L, EC380D NL, EC480D L

	Part No:	8920-01450
	Designation	Drift
	Class	EXT
	Used when	Boom cylinder head bush, installing
	Remark	D=128 / L=178

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC480D L

6. Drifts



Part No:	8920-01460
Designation	Drift
Class	EXT
Used when	Dipper arm cylinder head bush, installing
Remark	D=148 / L=215

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC480D L



Part No:	8920-01520
Designation	Drift
Class	EXT
Used when	Centre passage bush, installing
Remark	D=129 / L=103

Machines/Components

EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC200B, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B LC, EC240B LR, EC240B NLC, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, ECR145C L, ECR235C L, ECR305C L



Part No:	8932-00340
Designation	Drift
Class	HYD
Used when	Cylinder bush

Machines/Components

EC140B LC, EC140B LCM, EC160D L, EC180D L, EC220D L, EC235D NL, EW145B, SE170 W-3

6. Drifts



Part No:	8932-00350
Designation	Drift
Class	HYD
Used when	Cylinder bush, cylinder cover, dipper arm

Machines/Components

EC220D L, EC235D NL, EC250D L, EC250D LR, EC250D NL, SE170 W-3



Part No:	88830440
Designation	Handle
Class	HYD
Used when	Cylinder bush assembling



Part No:	88830442
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling



Part No:	88830443
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling

6. Drifts



Part No: 88830444
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830445
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830446
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830447
Designation Drift
Class HYD
Used when Cylinder bush assembling

6. Drifts



Part No: 88830448
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830449
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830450
Designation Drift
Class HYD
Used when Cylinder bush assembling



Part No: 88830451
Designation Drift
Class HYD
Used when Cylinder bush assembling

6. Drifts



Part No:	88830452
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling



Part No:	88830453
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling



Part No:	88830454
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling



Part No:	88830455
Designation	Drift
Class	HYD
Used when	Cylinder bush assembling

	Part No: 88830456 Designation Drift Class HYD Used when Cylinder bush assembling
	Part No: 88830459 Designation Drift Class HYD Used when Cylinder bush assembling
	Part No: 8920-00570 Designation Drift Class TRA Used when Slew gearbox seal, installing Remark D=215 / L=100

Machines/Components

EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, ECR145D L, ECR235C L, ECR235D L, FC2121C, FC2421C, PL4808D

6. Drifts



Part No:	8920-00770
Designation	Drift
Class	EXT
Used when	Slew motor, seal

Machines/Components
SE130 W-3



Part No:	8932-00110
Designation	Puller washer
Class	HYD
Used when	Main bearing adjustment, travel motor

Machines/Components
SE210 LC-3



Part No:	8932-00320
Designation	Drift
Class	TRA
Used when	Slew gearbox bearing, installing
Remark	D=89 / L=200

Machines/Components
EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L,
EC140D LM, EC650, ECR145C L

	Part No:	8932-00600
	Designation	Drift
	Class	TRA
	Used when	Slew gearbox bearing, installing
	Remark	D=102 / L=145

Machines/Components

EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, ECR145D L, ECR235C L, ECR235D L, FC2121C, FC2421C, PL4808D

	Part No:	8933-00040
	Designation	Driving tool
	Class	AXL
	Used when	Clutch, gearbox

Machines/Components

SE130 W-3, SE170 W-3

6. Drifts

	Part No:	8933-00290
	Designation	Drift sleeve
	Class	TRA
	Used when	Travel gearbox shaft bearing, installing
	Remark	D=290 / L=150

Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140D LM, ECR145D L

	Part No:	8933-00420
	Designation	Drift
	Class	TRA
	Used when	Slew gearbox seal, installing
	Remark	D=185 / L=197

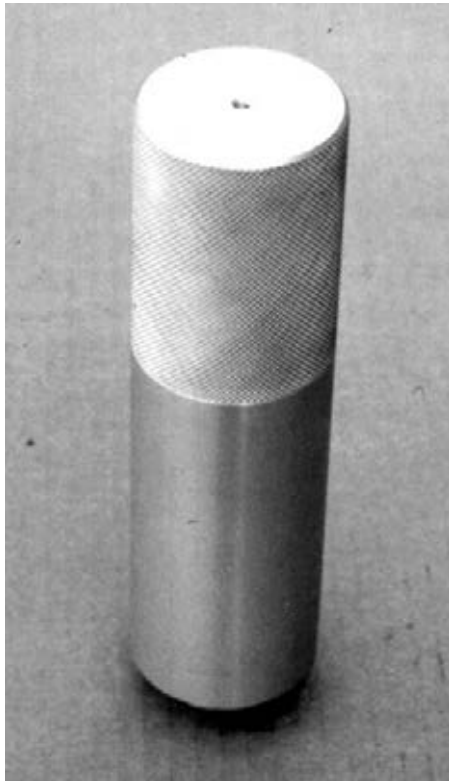
Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC650, ECR145C L

	Part No:	8932-00370
	Designation	Drive washer
	Class	HYD
	Used when	Travel motor, bearing

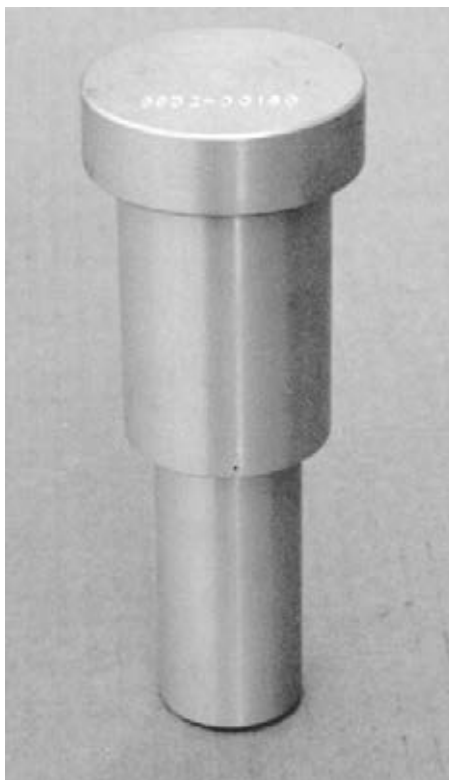
Machines/Components

SE280 LC-2, SE350 LC-3



Part No:	8932-00140
Designation	Guide pin
Class	HYD
Used when	Cylinder block, travel motor

Machines/Components
SE130 W-3, SE210 LC-3



Part No:	8932-00160
Designation	Guide pin
Class	HYD
Used when	Travel motor

Machines/Components

EC140B LCM, EC140C LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC180B LC, EC180C L, EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240B CN, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, ECR235C L, SE130 W-3, SE210 LC-3

6. Drifts



Part No:	8920-00740
Designation	Drift
Class	EXT
Used when	Axle, hub seal

Machines/Components
SE170 W-3



Part No:	8920-00750
Designation	Drift
Class	EXT
Used when	Axle, hub seal

Machines/Components
SE170 W-3



Part No:	8920-00760
Designation	Drive ring
Class	EXT
Used when	Axle, seal

Machines/Components
SE170 W-3



Part No:	8934-00200
Designation	Driving tool
Class	AXL
Used when	Axle, bearing

Machines/Components
SE130 W-3



Part No:	8934-00240
Designation	Installation tool
Class	AXL
Used when	Axle, steering cylinder, seal, installing

Machines/Components
SE130 W-3



Part No:	8934-00270
Designation	Drift
Class	AXL
Used when	Axle, bush

Machines/Components
SE170 W-3



Part No:	8934-00290
Designation	Drift
Class	AXL
Used when	Axle, bush

Machines/Components
SE170 W-3



Part No:	8932-00710
Designation	Drift
Class	HYD
Used when	Hydraulic pump seal, installing
Remark	D=100 / L=63

Machines/Components
EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR



Part No:	8920-00600
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder dust seal, installing

Machines/Components
EC140B LC, EC140B LCM, ECR58, ECR88, EW145B

6. Drifts



Part No:	8920-00850
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder bushing, installing

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, ECR88, EW145B



Part No:	8920-01080
Designation	Drift
Class	HYD
Used when	Cylinder dust wiper seal, installing
Remark	D=114 mm

Machines/Components

EC340D L, EC380D L, EC380D NL



Part No:	8920-01310
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder dust seal, installing
Remark	D=109 mm

Machines/Components

EC140B LC, EC140B LCM, EC200B, EC210B, EC210B F, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC250D L, EC250D LR, EC250D NL, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, ECR88

6. Drifts

	Part No:	14519445
	Designation	Drift
	Class	HYD
	Used when	Hydraulic cylinder dust seal, installing
	Remark	D=84 mm

	Part No:	14633686
	Designation	Drift
	Class	HYD
	Used when	Arm cylinder dust seal, installing
	Remark	D=94 mm

Machines/Components

EC160D L, EC180D L, EC220D L, EC235D NL

	Part No:	8920-01480
	Designation	Drift
	Class	HYD
	Used when	Cylinder dust wiper seal, installing
	Remark	D=121mm

Machines/Components

EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D L, EC380D NL

6. Drifts



Part No:	8920-01490
Designation	Drift
Class	HYD
Used when	Cylinder dust wiper seal, installing
Remark	D=131 mm

Machines/Components

EC340D L, EC380D L, EC380D NL, EC480D L



Part No:	8920-01500
Designation	Drift
Class	HYD
Used when	Cylinder dust wiper seal, installing
Remark	D=126 mm

Machines/Components

EC480D L



Part No:	8920-01510
Designation	Drift
Class	HYD
Used when	Cylinder dust wiper seal, installing
Remark	D=146 mm

Machines/Components

EC480D L



Part No:	14519459
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder head dry bearing, installing

Machines/Components

EC160B LC, EC160B NLC, ECR88



Part No:	14526532
Designation	Drift
Class	HYD
Hook no	-----
Used when	Remote control valve bushing, removing

Machines/Components

ECR58, ECR88



Part No:	14526535
Designation	Drift
Class	TRA
Hook no	-----
Used when	Travel gearbox gear, installing

Machines/Components

ECR58, ECR88

6. Drifts

	Part No:	14527717
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Swing motor valve cover , replacing

Machines/Components

ECR58, ECR88

	Part No:	88830439
	Designation	Drift
	Class	HYD
	Used when	Cylinder bush assembling

	Part No:	14527719
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Swing motor brake piston, removing and installing

Machines/Components

ECR58, ECR88



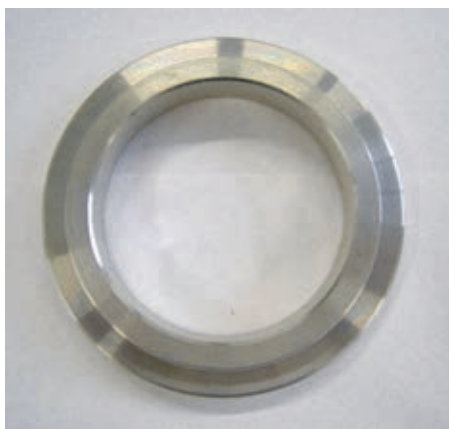
Part No:	14527844
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic pump bearing, installing

Machines/Components
ECR58



Part No:	14527845
Designation	Drift
Class	HYD
Hook no	-----
Used when	Hydraulic pump seal, replacing

Machines/Components
ECR58



Part No:	88830096
Designation	Drift
Class	TRA
Used when	Installation of sealing on hydraulic motor
Remark	Diameter 95 mm

Machines/Components
EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D

6. Drifts



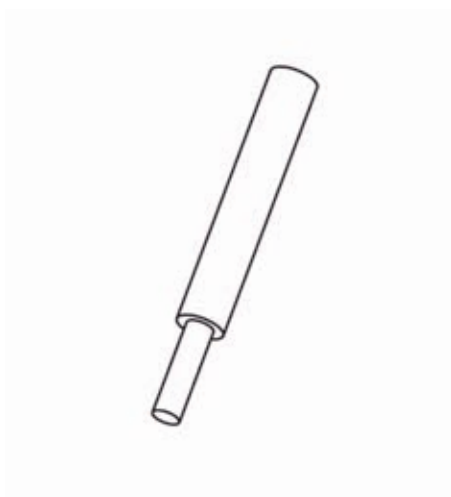
Part No:	88830097
Designation	Drift
Class	TRA
Used when	Installation of sealing on hydraulic motor
Remark	Diameter 105 mm

Machines/Components

EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D



Part No:	14630696
Designation	Drift
Class	TRA
Used when	Track gearbox floating seal, installing



Part No:	88830021
Designation	Drift
Class	ENG
Hook no	-----
Used when	Valve guide, removing

Machines/Components

D1.2A

	Part No: Designation Class Hook no Used when	88830022 Drift ENG ----- Valve guide, installing
---	---	--

Machines/Components
D1.2A

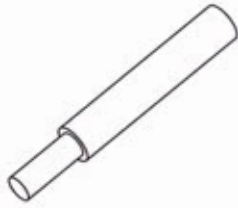
	Part No: Designation Class Hook no Used when	88830023 Drift ENG ----- Camshaft bushing, removing
--	---	---

Machines/Components
D1.2A, D1.6A, D2.0A, D2.2A

	Part No: Designation Class Hook no Used when	8931-00080 Installation tool ENG ----- Engine camshaft bushing, replacing
---	---	---

Machines/Components
D3.1A, D3.4A, D3.4D, EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C

6. Drifts



Part No:	88830024
Designation	Drift
Class	ENG
Hook no	-----
Used when	Valve guide, removing

Machines/Components

D1.6A, D2.0A, D2.0D, D2.2A, D2.2D



Part No:	88830025
Designation	Drift
Class	ENG
Hook no	-----
Used when	Valve guide, installing

Machines/Components

D1.6A, D2.0A, D2.0D, D2.2A, D2.2D



Part No:	14527850
Designation	Drift
Class	ENG
Hook no	-----
Used when	Engine valve guide, removing

Machines/Components

D3.1A, D3.4A, D3.4D, EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C

	Part No:	14527851
	Designation	Drift
	Class	ENG
	Hook no	-----
	Used when	Engine valve guide, inserting

Machines/Components

D3.1A, D3.4A, D3.4D, EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C

	Part No:	14527852
	Designation	Drift
	Class	ENG
	Hook no	-----
	Used when	Engine connecting rod bushing, replacing

Machines/Components

EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C

	Part No:	14527854
	Designation	Drift
	Class	ENG
	Hook no	-----
	Used when	Engine crankshaft pullery, installing

Machines/Components

D3.1A, D3.4A, D3.4D, EC55C, EC60C, ECR58, ECR88, EW60C

6. Drifts



Part No:	14527919
Designation	Drift
Class	HYD
Hook no	-----
Used when	Blade cylinder head dry bearing, installing

Machines/Components
ECR58



Part No:	14527920
Designation	Drift
Class	HYD
Hook no	-----
Used when	Boom cylinder head dry bearing, installing

Machines/Components
ECR88



Part No:	14527921
Designation	Drift
Class	HYD
Hook no	-----
Used when	Dipper arm cylinder head dry bearing, installing

Machines/Components
ECR88

	<table> <tr> <td>Part No:</td><td>14527922</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>HYD</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Bucket cylinder head dry bearing, installing</td></tr> </table>	Part No:	14527922	Designation	Drift	Class	HYD	Hook no	-----	Used when	Bucket cylinder head dry bearing, installing
Part No:	14527922										
Designation	Drift										
Class	HYD										
Hook no	-----										
Used when	Bucket cylinder head dry bearing, installing										

Machines/Components
ECR88

	<table> <tr> <td>Part No:</td><td>14527923</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>HYD</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Swing cylinder head dry bearing, installing</td></tr> </table>	Part No:	14527923	Designation	Drift	Class	HYD	Hook no	-----	Used when	Swing cylinder head dry bearing, installing
Part No:	14527923										
Designation	Drift										
Class	HYD										
Hook no	-----										
Used when	Swing cylinder head dry bearing, installing										

Machines/Components
ECR88

	<table> <tr> <td>Part No:</td><td>14527924</td></tr> <tr> <td>Designation</td><td>Drift</td></tr> <tr> <td>Class</td><td>HYD</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Boom and arm cylinder bushing, installing</td></tr> </table>	Part No:	14527924	Designation	Drift	Class	HYD	Hook no	-----	Used when	Boom and arm cylinder bushing, installing
Part No:	14527924										
Designation	Drift										
Class	HYD										
Hook no	-----										
Used when	Boom and arm cylinder bushing, installing										

Machines/Components
ECR58

6. Drifts



Part No:	14527925
Designation	Drift
Class	HYD
Hook no	-----
Used when	Bucket cylinder bushing, installing

Machines/Components
ECR58



Part No:	14527926
Designation	Drift
Class	HYD
Hook no	-----
Used when	Blade and boom cylinder bushing, installing

Machines/Components
ECR58, ECR88



Part No:	14527927
Designation	Drift
Class	HYD
Hook no	-----
Used when	Swing cylinder bushing, installing

Machines/Components
ECR58



Part No:	14528284
Designation	Drift
Class	HYD
Hook no	-----
Used when	Pump shaft bearing, installing

Machines/Components
ECR88



Part No:	14528285
Designation	Drift
Class	HYD
Hook no	-----
Used when	Pump shaft seal, replacing

Machines/Components
ECR88



Part No:	8920-01400
Designation	Drift
Class	TRA
Hook no	-----
Used when	Swing motor shaft seal, installation

Machines/Components

EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC700B HR, EC700B LC, EC700C L, EC700C LD

6. Drifts



Part No:	8933-00910
Designation	Drift
Class	TRA
Hook no	-----
Used when	Swing motor shaft bearing, installation

Machines/Components

EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC700B HR, EC700B LC, EC700C L, EC700C LD



Part No:	8933-00920
Designation	Drift
Class	TRA
Hook no	-----
Used when	Swing motor shaft seal, installation

Machines/Components

EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC700B HR, EC700B LC, EC700C L, EC700C LD



Part No:	14545036
Designation	Drift
Class	TRA
Hook no	-----
Used when	Track gearbox shaft bearing, installation

Machines/Components

EC700B HR, EC700B LC

	Part No:	14545037
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Track gearbox shaft bearing, installation
	Remark	Used together with bolt (M8 x 30)

Machines/Components

EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR305C L

	Part No:	14549671
	Designation	Drift
	Class	HYD
	Hook no	-----
	Used when	Hydraulic pump shaft seal, installation

Machines/Components

EC700B HR, EC700B LC

	Part No:	14555896
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Hydraulic track motor, removal and installation

Machines/Components

EC700B LC

6. Drifts

	Part No:	14555897
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Hydraulic track motor, removal and installation

Machines/Components
EC700B LC

	Part No:	14555898
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Hydraulic track motor, removal and installation

Machines/Components
EC700B LC

	Part No:	14555899
	Designation	Drift
	Class	TRA
	Hook no	-----
	Used when	Hydraulic track motor seal, removal and installation

Machines/Components
EC700B LC



Part No:	14599542
Designation	Drift
Class	TRA
Used when	Swing gearbox seal, installing
Remark	Seal 115x145-14t

Machines/Components
ECR305C L



Part No:	14599544
Designation	Drift
Class	TRA
Used when	Swing gearbox lower bearing, installing

Machines/Components
ECR305C L



Part No:	14599543
Designation	Drift
Class	TRA
Used when	Swing gearbox upper bearing, installing

Machines/Components
ECR305C L

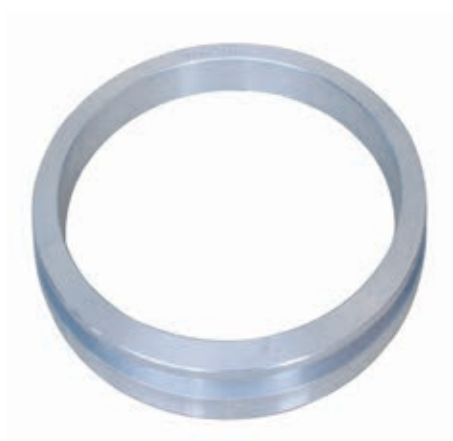
6. Drifts



Part No:	14599545
Designation	Drift
Class	TRA
Used when	Track gearbox floating seal, installing

Machines/Components

EC290B LC, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, ECR305C L



Part No:	14633155
Designation	Drift
Class	TRA
Used when	Track gearbox floating seal, installing



Part No:	14633157
Designation	Drift
Class	TRA
Used when	Track gearbox floating seal, installing

Machines/Components

EC140D L, EC140D LM, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, ECR235C L, ECR235D L, FC2121C

6. Drifts



Part No: 14599549
Designation Drift
Class TRA
Used when Swing gearbox seal, installing

Machines/Components
ECR235C L



Part No: 88830420
Designation Drift
Class EXT
Used when Seal installation tool
Remark 214.5 mm

Machines/Components
SD110



Part No: 14599550
Designation Drift
Class TRA
Used when Swing gearbox upper bearing, installing

Machines/Components
ECR235C L

6. Drifts



Part No:	14599551
Designation	Drift
Class	TRA
Used when	Swing gearbox lower bearing, installing

Machines/Components
ECR235C L



Part No:	73862
Designation	Installation tool
Class	EXT
Hook no	-----
Used when	Brake housing oil seal

Machines/Components
G710, G710 VHP, G716 VHP, G720, G720 VHP, G726 VHP, G730, G730 VHP, G736 VHP, G740, G740 VHP, G780, G780 VHP



Part No:	11666091
Designation	Valve seat tool, inlet
Class	ENG
Hook no	9988593
Used when	Pressing in inlet valve seat

Machines/Components
A25C, TD40



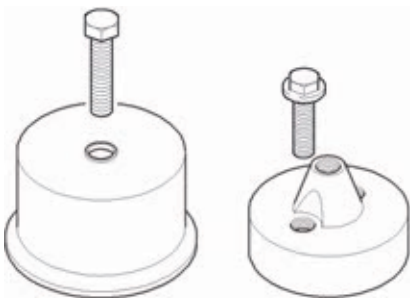
Part No:	11666092
Designation	Valve seat tool, exhaust
Class	ENG
Hook no	9988593
Used when	Pressing in exhaust valve seat

Machines/Components TD40



Part No:	11666093
Designation	Installation tool
Class	ENG
Hook no	9999819
Used when	Pressing in rear crank shaft seal

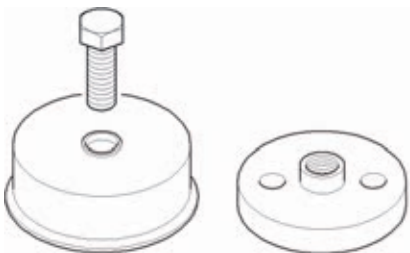
Machines/Components TD40



V1103505

Part No:	88830310
Designation	Installation tool
Class	EXT
Used when	Use to correctly fit the crankshaft front oil seal.

Machines/Components MC115C, MC155C, MCT110C, MCT125C, MCT135C, MCT145C



V1103508

Part No:	88830311
Designation	Installation tool
Class	EXT
Used when	Use to correctly fit the crankshaft rear oil seal.

Machines/Components MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

6. Drifts



Part No:	88830312
Designation	Fixture
Class	EXT
Used when	Use to position the crankshaft rear oil seal before using fitting tool 88830311.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	14527853
Designation	Drift
Class	ENG
Hook no	-----
Used when	Engine valve steam seal, inserting

Machines/Components

EC55B, EC55C, EC60C, ECR58, ECR88, EW55B, EW60C



Part No:	9991083
Designation	Drift
Class	ENG
Hook no	9999834
Used when	Valve guide, removing

Machines/Components

TD164, TD40, TD61, TD63



Part No:	9991084
Designation	Drift
Class	ENG
Hook no	9999834
Used when	Valve guide, removing

Machines/Components

D10B, TD102, TD103, TD122, TD45, TD71



Part No:	9991459
Designation	Drift
Class	ENG
Hook no	9999834
Used when	Valve guide, removing

Machines/Components

TD61, TD63, TD73



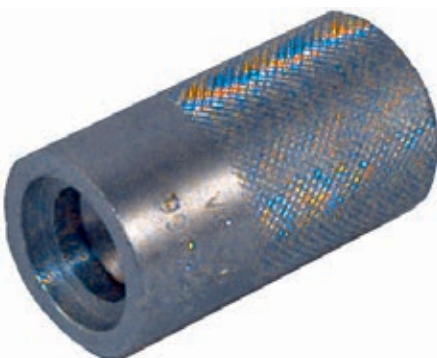
Part No:	9992953
Designation	Drift
Class	ENG
Hook no	9999835
Used when	Valve guide, installing

Machines/Components
TD122



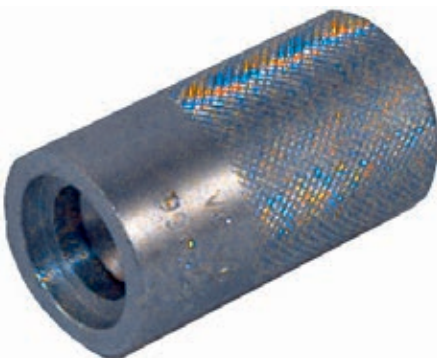
Part No:	9996169
Designation	Installation drift
Class	ENG
Hook no	9989356
Used when	Valve guides, installing

Machines/Components
TD61, TD63



Part No:	9996668
Designation	Drift
Class	ENG
Hook no	9989357
Used when	Valve guide, installing

Machines/Components
TD102



Part No:	9996669
Designation	Drift
Class	ENG
Hook no	9989357
Used when	Valve guide, installing

Machines/Components
D10B, TD102, TD103

6. Drifts



Part No:	9998171
Designation	Drift
Class	ENG
Hook no	9512762
Used when	Valve guide, installing

Machines/Components
TD73



Part No:	9996159
Designation	Pin
Class	ENG
Hook no	9512762
Used when	Valve guide, installing
Remark	Used together with 11666043

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B



Part No:	9998261
Designation	Drift
Class	ENG
Hook no	9999826
Used when	Valve guide, installing

Machines/Components
D12C, D12D

6. Drifts



Part No:	9998262
Designation	Drift
Class	ENG
Hook no	9999826
Used when	Valve guide, installing

Machines/Components
D12C



Part No:	88800147
Designation	Drift
Class	ENG
Hook no	9512762
Used when	Valve guide, removing
Remark	Replaces 9998263

Machines/Components
D11F (15050661), D11H (15050660), D11H (15050662), D12D, D9A, D9B

6. Drifts



Part No:	88800062
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve guide, inlet, installing
Remark	Replaces 9990049

Machines/Components

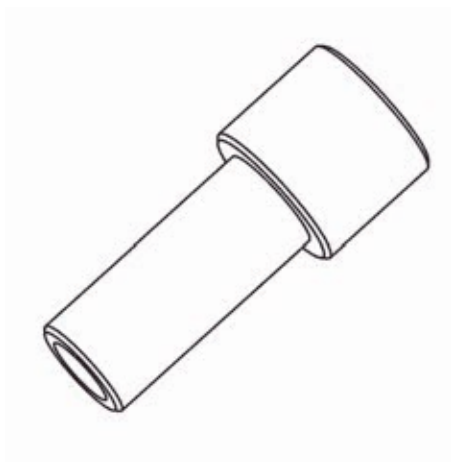
D11F (15050661), D11H (15050660), D11H (15050662), D9A



Part No:	88800063
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve guide, exhaust, installing
Remark	Replaces 9990050

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D9A



Part No:	88800064
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve guide inlet, installing

Machines/Components

D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	88800127
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve guide, exhaust, installing

Machines/Components

D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	88800137
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve guides, removing

Machines/Components

D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)

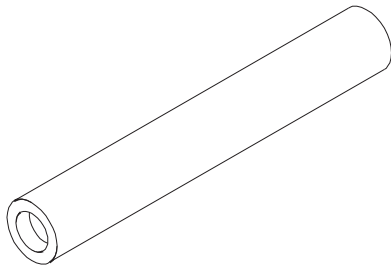


Part No:	88800151
Designation	Drift
Class	ENG
Hook no	9989355
Used when	Valve stem seals, installing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)

6. Drifts

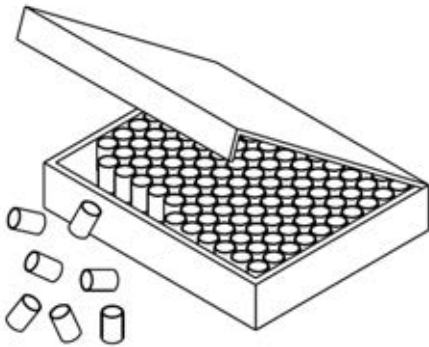


Part No:	2904634
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of valve stem seal

M200874A

Machines/Components

D3.6D, D3D, D4E, D4H, D5E, D6E, D6H, D7E, D8H



Part No:	88830047
Designation	Protecting sleeve
Class	ENG
Hook no	-----
Used when	Installing valve stem seal
Remark	Used together with 2904634

Machines/Components

D3.6D, D4E, D4H, D6E, D6H, D8H



Part No:	9993655
Designation	Drift
Class	EXT
Hook no	9999813
Used when	Bearing and seal ring in coolant pump, installing

Machines/Components

TD102, TD122



Part No:	9992267
Designation	Drift
Class	EXT
Hook no	9999834
Used when	Bearing in coolant pump, removing and installing

Machines/Components

D10B, TD103, TD122



Part No:	9992657
Designation	Installation tool
Class	EXT
Hook no	9988593
Used when	Polygon hub, installing

Machines/Components
A20C, A25C, A25C 4x4, TD71



Part No:	9992677
Designation	Drift
Class	ENG
Hook no	9999812
Used when	Rocker arm bush, removing and installing

Machines/Components
D10B, TD102, TD103, TD122, TD61, TD71, TD73



Part No:	9993805
Designation	Drift
Class	EXT
Hook no	9999836
Used when	Coolant pump seals, installing

Machines/Components
TD103



Part No:	9996849
Designation	Drift
Class	ENG
Hook no	9989356
Used when	Bushing, installing

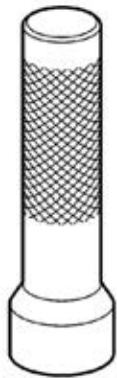
Machines/Components
D10B, TD103, TD122, TD73



Part No:	9998039
Designation	Drift
Class	EXT
Hook no	9988587
Used when	Seal in coolant pump, installing

Machines/Components
A20C, A25C, A25C 4x4, A30C, A35C, A40, L120D, L90D, L90D OR, TD102, TD122, TD164, TD45, TD61, TD63, TD71, TD73

6. Drifts



Part No:	9998361
Designation	Drift
Class	EXT
Hook no	9988587
Used when	Seal in coolant pump, installing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A30D, A30E, A35D, A40D, T450D



Part No:	9996795
Designation	Drift
Class	EXT
Hook no	9988586
Used when	Crank shaft seal, installing
Remark	D=120mm

Machines/Components

A35C, A40, D10B, L150D, L180D, L180D HL, TD103, TD122



Part No:	9996855
Designation	Drift
Class	EXT
Hook no	9988580
Used when	Crankshaft front oil seal, installing
Remark	D=101mm

Machines/Components

A20C, A25C, A25C 4x4, TD61, TD63, TD71, TD73



Part No:	9998012
Designation	Drift
Class	ENG
Hook no	9999846
Used when	Seal, installing

Machines/Components
D10B, TD103

Part No:	9998619
Designation	Drift
Class	EXT
Hook no	9999814
Used when	Thermostat seal, installing

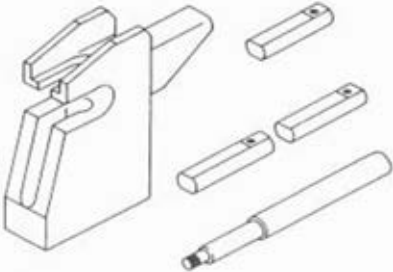
Machines/Components

A35E, A35E FS, D10B, D12C, D12D, D9A, D9B, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, L180E, L220E, PL4608, PL4611

6. Drifts

	Part No:	9998692
	Designation	Installation tool
	Class	ENG
	Hook no	9989358
	Used when	Bushing, removing, installing

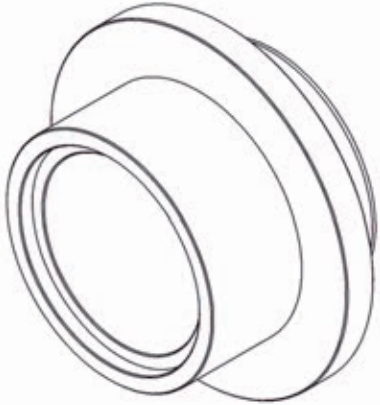
Machines/Components
D16E, D7D

	Part No:	5450012
	Designation	Installation tool
	Class	ENG
	Hook no	-----
	Used when	Piston rod mounting

Machines/Components
EC13 XR, EC13 XTV, EC15 XR, EC15 XT, EC15 XTV, EC15B XR, EC15B XT, EC15B XTV, EC20 XT, EC20 XTV, EC20B XT, EC20B XTV, EC25, EC30

	Part No:	9992637
	Designation	Installation drift
	Class	EXT
	Hook no	9999817
	Used when	Seal ring in pinion bearing housing, installing
	Remark	D=137mm

Machines/Components
A20C, A25C, A25C 4x4, A30C, A35C, A40, AHW71, AWB20, AWB25, EV80, L70E, L90E

	Part No:	88830072
	Designation	Installation drift
	Class	TRA
	Hook no	9988587
	Used when	Installing seal, output shaft

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), T450D

	Part No:	9993350
	Designation	Drift plate
	Class	EXT
	Hook no	9988586
	Used when	Seal ring, installing

Machines/Components

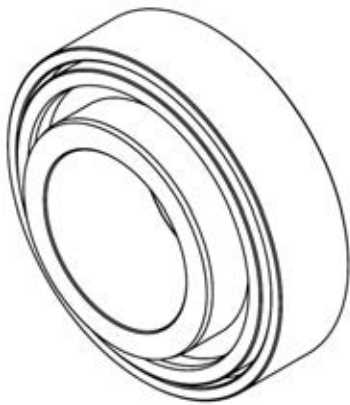
A20C, A25C, A25C 4x4

	Part No:	9993623
	Designation	Drift ring
	Class	EXT
	Hook no	9988590
	Used when	Oil seal for output shaft 6x6 axle, installing

Machines/Components

A25E, A30E, A35D, A40D, AH54, AH56F, AH63, AH64, AH64E, AH64K, AHW64N, AHW71, AHW71M, AHW71P, L110F, L120F, L150E, L150F, L150G, L180E, L180F, L180F HL, L180G, L220G

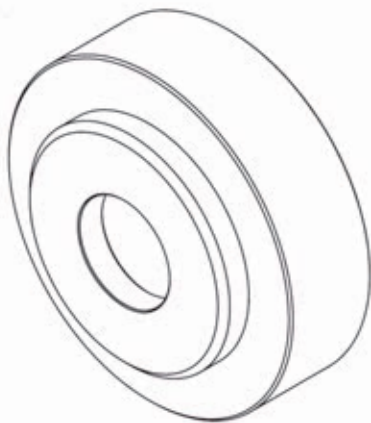
6. Drifts



Part No:	88830059
Designation	Installation drift
Class	EXT
Hook no	9999814
Used when	Installing seal in correct position

Machines/Components

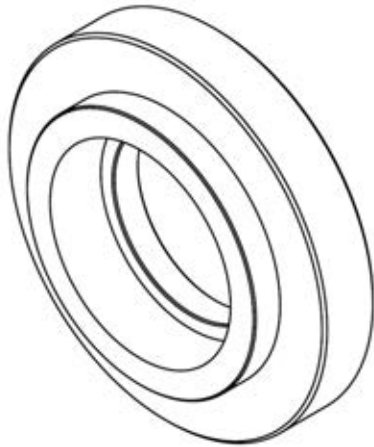
A25F (37214), A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56I (56044), AH64Q (56041), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038), HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTL220, L150F, L150G, L180F, L180F HL, L180G



Part No:	88830103
Designation	Installation drift
Class	EXT
Hook no	9999814
Used when	Installing seal in correct position

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)



Part No:	88830104
Designation	Installation drift
Class	EXT
Hook no	9999814
Used when	Installing seal in correct position

Machines/Components

A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23961), ARB/H35 ATC (56039), ARB/H40 (23958), ARB/H40 ATC (56038)



Part No:	88830137
Designation	Installation tool
Class	EXT
Used when	Installation of the carrier oil seal into drum.

Machines/Components

SD110



Part No:	9993751
Designation	Press pad
Class	TRA
Hook no	9999818
Used when	Plantery gear, reconditioning

Machines/Components

PT1506, PT1560, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

6. Drifts



Part No:	14360114
Designation	Drift
Class	BAS
Used when	Seal, installing
Remark	D = 62

Machines/Components

EC160, EC160 W, EW140, EW160, EW160B



Part No:	14514179
Designation	Drift
Class	TRA
Used when	Slew gearbox bearing, installing
Remark	D=170 / L=241

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC



Part No:	14514181
Designation	Drift
Class	TRA
Used when	Slew gearbox bearing, installing
Remark	D=140 / L=150

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL



Part No:	14514182
Designation	Drift
Class	TRA
Used when	Slew gearbox bearing, installing
Remark	D=164 / L=240

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL



Part No:	14634308
Designation	Drift
Class	TRA
Used when	Swing gearbox upper bearing, installing
Remark	Bearing 100 x180



Part No:	14634309
Designation	Drift
Class	TRA
Used when	Swing gearbox seal, installing
Remark	Seal 105 x 135-14t

6. Drifts

	Part No:	14514407
	Designation	Drift
	Class	EXT
	Used when	Bucket cylinder head bush, installing
	Remark	D=118 / L=165

Machines/Components

EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC

	Part No:	14514415
	Designation	Drift
	Class	HYD
	Used when	Oil cooling fan motor seal, installing
	Remark	D=55 / L=120

Machines/Components

EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC700B HR, EC700B LC, ECR145C L, ECR235C L, ECR305C L

	Part No:	14515619
	Designation	Drift
	Class	TRA
	Used when	Travel motor seal, installing
	Remark	D=80 / L=69

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, PL3005D

	Part No:	14516285
	Designation	Drift
	Class	TRA
	Used when	Travel gearbox bearing, installing
	Remark	D=65 / L=127

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC

	Part No:	14516286
	Designation	Drift
	Class	TRA
	Used when	Slew gearbox bearing, installing
	Remark	D=145 / L=190

Machines/Components

EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL

	Part No:	14516287
	Designation	Drift
	Class	TRA
	Used when	Slew gearbox bearing, installing
	Remark	D=135 / L=130

Machines/Components

EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL

6. Drifts

	Part No:	14516288
	Designation	Drift
	Class	TRA
	Used when	Slew gearbox seal, installing
	Remark	D=160 / L=200

Machines/Components

EC240B LC, EC240B LR, EC240B NLC

	Part No:	88830272
	Designation	Drift
	Class	EXT
	Used when	Swing motor seal installing

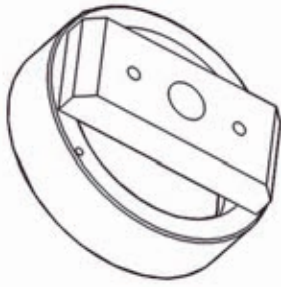
Machines/Components

EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC650, ECR145C L, ECR145D L

	Part No:	9998238
	Designation	Drift
	Class	ENG
	Hook no	9988593
	Used when	Crank shaft seal, installing

Machines/Components

A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, PL4608, PL4611, T450D



Part No:	88800021
Designation	Installation tool
Class	EXT
Hook no	9988586
Used when	Installing crankshaft front oil seal
Remark	Replaces 9990112 and 9990118

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B, G970, G976, G990, L350F



Part No:	9990113
Designation	Installation tool
Class	ENG
Hook no	9988586
Used when	Installing crankshaft rear oil seal
Remark	Used together with 9990117

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D9A, D9B, G970, G976, G990

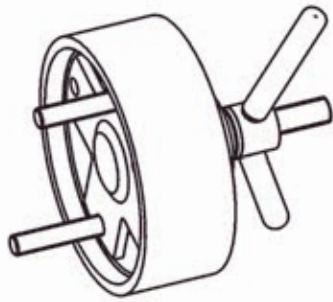


Part No:	9990117
Designation	Cone
Class	ENG
Hook no	9988586
Used when	Installing crankshaft rear oil seal
Remark	Used together with 9990113

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A40D, D11F (15050661), D11H (15050660), D11H (15050662), D9A, D9B

6. Drifts



Part No:	9990166
Designation	Installation tool
Class	EXT
Hook no	-----
Used when	Crankshaft seal rear, installing
Remark	Used for the new type of seal that is delivered with installation ring

Machines/Components

A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	11668400
Designation	Installation tool
Class	EXT
Hook no	9999812
Used when	Crank shaft seal front, installing
Remark	D=74 mm

Machines/Components

D4D, D4E, D4H, D6D, D6E, D6H, D8H, EW145B, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C, L50E, L60E, L60F, L70E, L70F, L90E, L90F



Part No:	11668401
Designation	Installation tool
Class	EXT
Hook no	9999812
Used when	Crank shaft seal rear, installing
Remark	D=120 mm

Machines/Components

D4D, D4E, D4H, D6D, D6E, D6H, D8H, EW145B, EW160B, EW160C, EW180B, EW180C, EW200B, EW210C



Part No:	11668406
Designation	Installation tool
Class	EXT
Hook no	9999812
Used when	Crank shaft seal, installing
Remark	D=81mm Replaces 9998673

Machines/Components

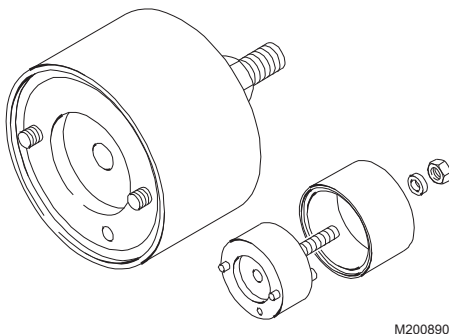
D5D, D5E, D7D, D7E, EW140B, EW140C, L110E, L110F, L120E, L120F



Part No:	88820043
Designation	Installation tool
Class	EXT
Hook no	9999812
Used when	Crankshaft seal, installing (flywheel)
Remark	D = 130 mm Replaces 9998672

Machines/Components

D5D, D5E, D7D, D7E, EW140B, EW140C, G710B, G720B, G726B, G730B, G740B, G746B, G780B

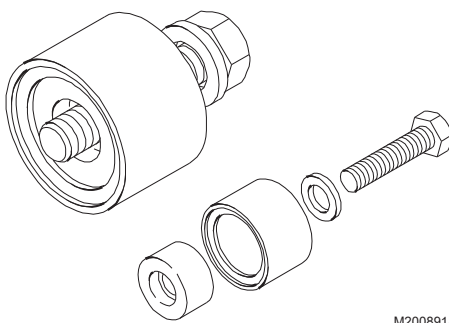


M200890Z

Part No:	11370469
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of sealing ring kit, rear

Machines/Components

D3D



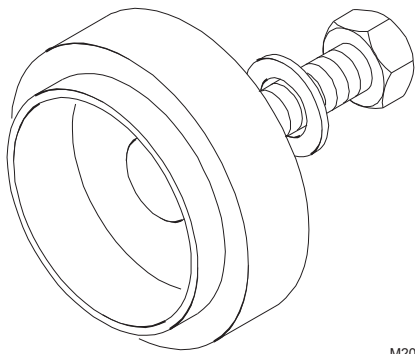
M200891A

Part No:	11370470
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of sealing ring kit, front

Machines/Components

D3D

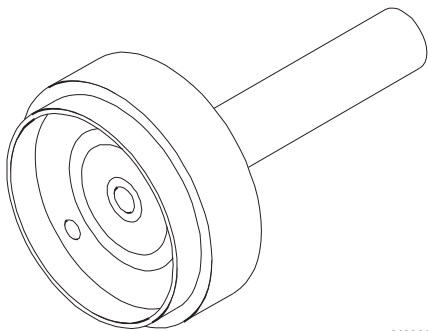
6. Drifts



M200880A

Part No:	2901761
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of crankshaft seal, front

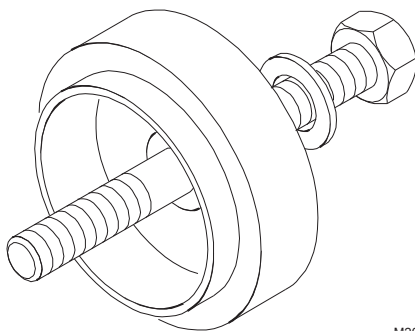
Machines/Components
D3D



M200881A

Part No:	2901762
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of crankshaft seal, rear

Machines/Components
D3D



M200879A

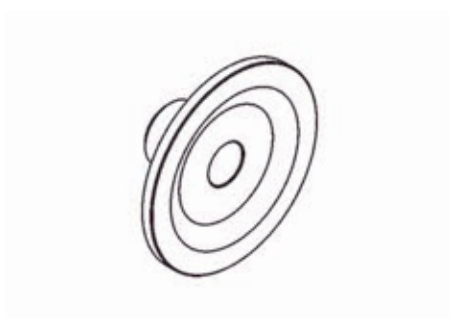
Part No:	2901763
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Installation of camshaft seal

Machines/Components
D3D



Part No:	88830229
Designation	Drift
Class	EXT
Used when	Work on the drum carrier

Machines/Components
DD100



Part No:	11668319
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Installing brake piston

Machines/Components
28.32-H-A, 28.32-M-A, 28.43



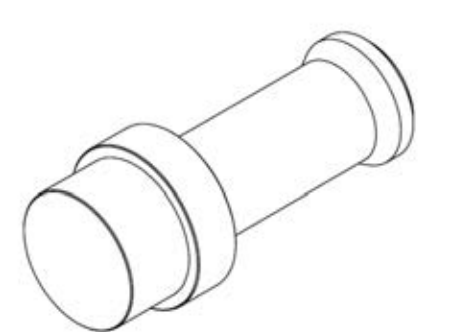
Part No:	11666179
Designation	Installation tool
Class	EXT
Hook no	-----
Used when	Installing seals on valve slide

Machines/Components
BL60, BL60B, BL61, BL61B, BL70, BL70B, BL71, BL71B

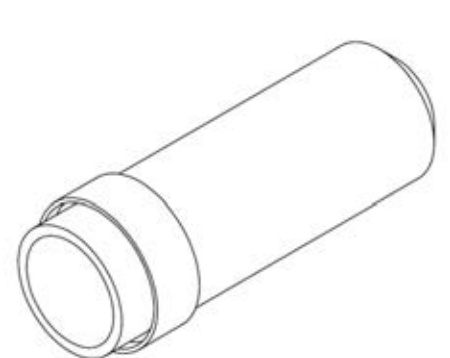
6. Drifts

	Part No:	33172
	Designation	Installation drift
	Class	AXL
	Hook no	-----
	Used when	Double Reduction Final Drive, Drive axle bearing

Machines/Components
G780, G780B

	Part No:	88830003
	Designation	Installation drift
	Class	AXL
	Hook no	-----
	Used when	Axle bearing installation

Machines/Components
G930

	Part No:	88830004
	Designation	Installation drift
	Class	AXL
	Hook no	-----
	Used when	Axle seal installation

Machines/Components
G930



Part No:	88830045
Designation	Installation drift
Class	AXL
Hook no	-----
Used when	Sprocket installation on rear axle tandems

Machines/Components

APR70, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990

6. Drifts

7. Guide pins and Guide sleeves



Part No:	11666090
Designation	Installation tool
Class	ENG
Hook no	9989322
Used when	Piston, installing

Machines/Components
TD40



Part No:	9993514
Designation	Installation ring
Class	ENG
Hook no	9988593
Used when	Piston, installing

Machines/Components
TD45



Part No:	9996664
Designation	Installation ring
Class	ENG
Hook no	9988587
Used when	Piston, installing

Machines/Components
TD102, TD103

7. Guide pins and Guide sleeves



Part No:	9996839
Designation	Installation ring
Class	ENG
Hook no	9988587
Used when	Piston, installing

Machines/Components
TD71, TD73



Part No:	9996840
Designation	Installation ring
Class	ENG
Hook no	9988587
Used when	Piston, installing

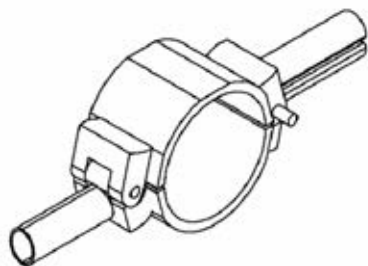
Machines/Components
TD61, TD63



Part No:	9998006
Designation	Installation ring
Class	ENG
Hook no	9999814
Used when	Piston, installing

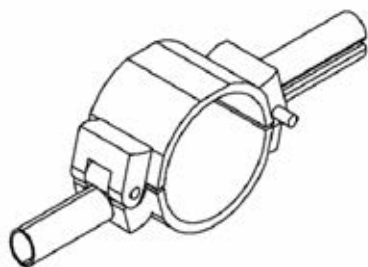
Machines/Components
TD122

7. Guide pins and Guide sleeves



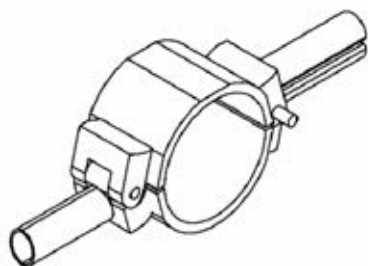
Part No:	88800316
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 108mm, replaces 9998687

Machines/Components
D5D, D5E, D7D, D7E

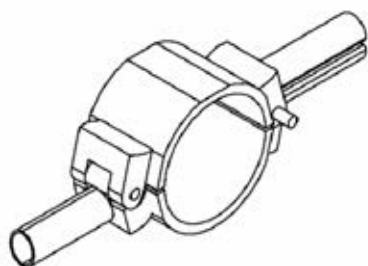


Part No:	88800317
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 98mm, replaces 9990145

Machines/Components
D6D, D6E, D6H, D8H

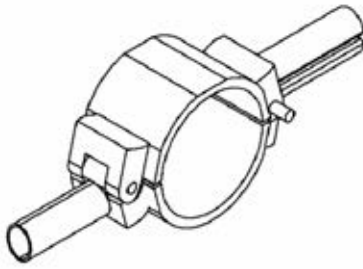


Part No:	88830208
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 101mm, replace 11668407



Part No:	88800314
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 131mm, replaces 9998531

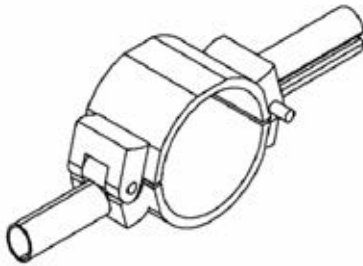
7. Guide pins and Guide sleeves



Part No:	88800319
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 120mm, replaces 9990044

Machines/Components

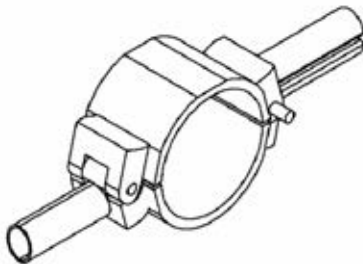
D9A, D9B



Part No:	88800313
Designation	Piston ring compressor
Class	ENG
Hook no	9989322
Used when	Piston installing
Remark	Diameter 144 mm, replaces 9990158

Machines/Components

D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	88800318
Designation	Piston ring compressor
Class	ENG
Used when	Installing piston
Remark	Diameter 123 mm.

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870)

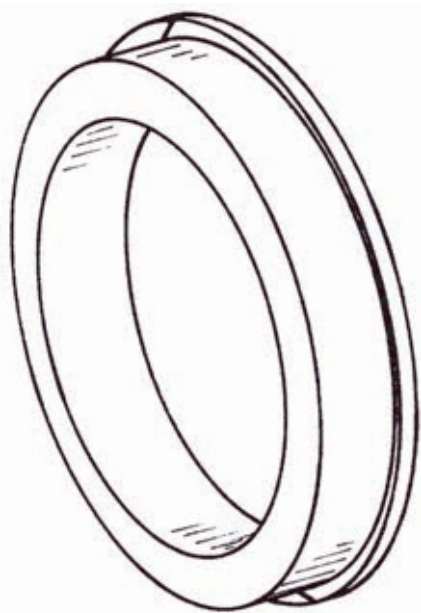


Part No:	11713129
Designation	Installation tool
Class	ENG
Hook no	-----
Used when	Piston, installing
Remark	60 - 125mm

Machines/Components

D1.2A, D1.6A, D2.0A, D2.0D, D2.2A, D2.2D, D3.1A, D3.4A, D3.4D, D4H, EC55C, EC60C, EW60C

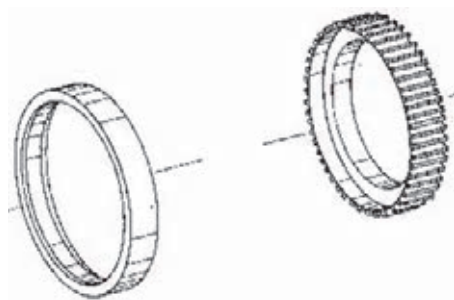
7. Guide pins and Guide sleeves



Part No:	11668503
Designation	Centring ring
Class	AXL
Used when	Axle, reconditioning

Machines/Components

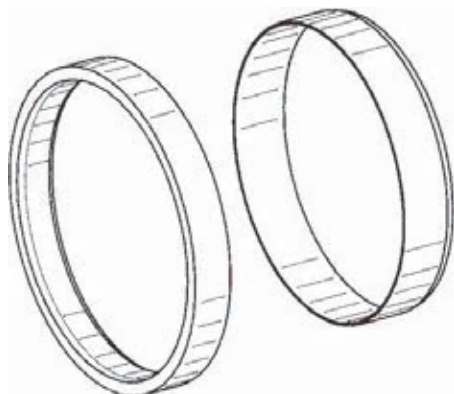
EW140, EW160



Part No:	11668508
Designation	Installation tool
Class	AXL
Used when	Axle, reconditioning

Machines/Components

APLB745, APLB755, APLB755-HD

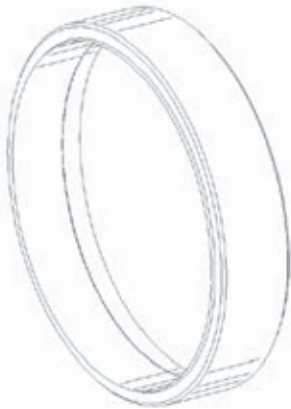


Part No:	11668509
Designation	Installation tool
Class	AXL
Used when	Axle, reconditioning

Machines/Components

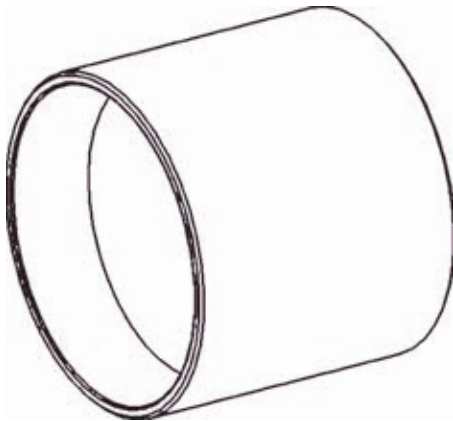
EW140, EW160

7. Guide pins and Guide sleeves



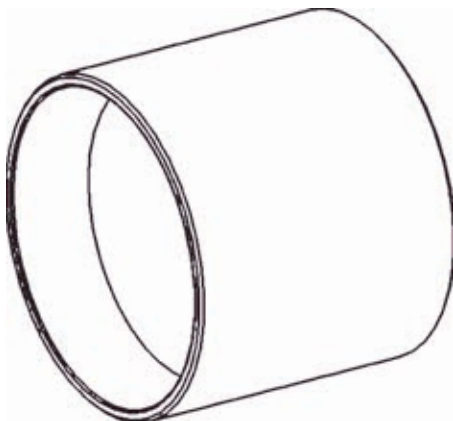
Part No:	11668559
Designation	Installation tool
Class	AXL
Hook no	-----
Used when	Brake piston, installing

Machines/Components
APB755-HD, APLB755-HD



Part No:	88830085
Designation	Installation tool
Class	AXL
Used when	Used for calibration of sealing elements in steering

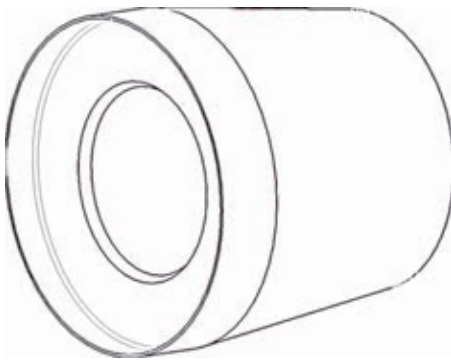
Machines/Components
MS-E3050, MS-E3060, MS-E3070



Part No:	88830091
Designation	Installation tool
Class	AXL
Used when	Used for calibration of sealing elements in steering

Machines/Components
MS-E3070

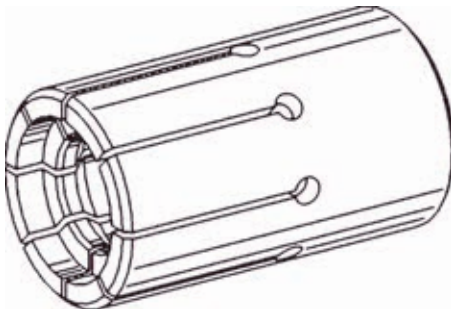
7. Guide pins and Guide sleeves



Part No:	88830083
Designation	Installation tool
Class	AXL
Used when	Installing sealing elements for steering
Remark	Used together with 88830084

Machines/Components

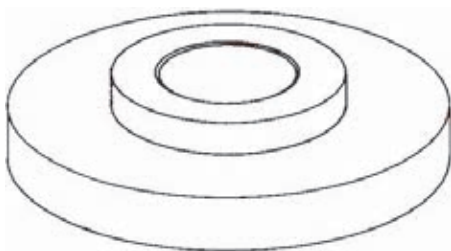
MS-E3050, MS-E3060, MS-E3070



Part No:	88830084
Designation	Installation tool
Class	AXL
Used when	Installing sealing elements for steering
Remark	Used together with 88830083

Machines/Components

MS-E3050, MS-E3060, MS-E3070



Part No:	11668510
Designation	Stop washer
Class	TRA
Used when	Transmission, reconditioning

Machines/Components

EW140, EW160



Part No:	11668512
Designation	Stop washer
Class	TRA
Used when	Transmission, reconditioning

Machines/Components

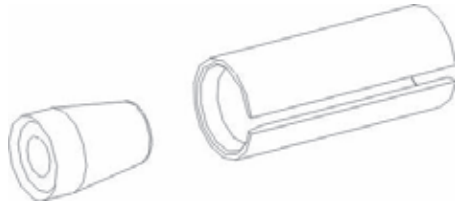
EW140, EW160

7. Guide pins and Guide sleeves



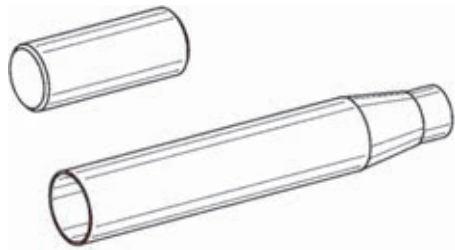
Part No:	11668519
Designation	Installation tool
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
EW160



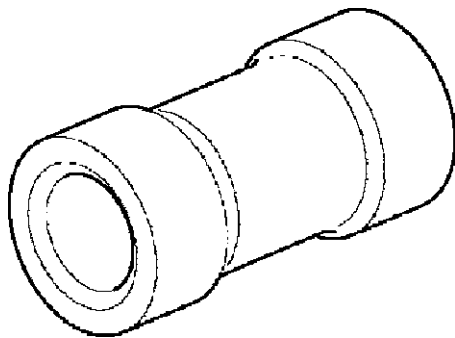
Part No:	11668520
Designation	Installation tool
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
EW140, EW160



Part No:	11668521
Designation	Installation tool
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
2HL270, 2HL290, EW140, EW160



Part No:	11668522
Designation	Installation tool
Class	TRA
Used when	Transmission, reconditioning

Machines/Components
EW140, EW160



Part No:	11668581
Designation	Adjustment screws
Class	AXL
Hook no	-----
Used when	Assembling crown wheel and differential housing

Machines/Components
APR70A, APR90, APR90A

7. Guide pins and Guide sleeves



Part No:	89405
Designation	Installation tool
Class	EXT
Hook no	-----
Used when	Oil disc brake

Machines/Components

G700 , G710B, G720B, G726B, G730B, G740B, G746B, G780B



Part No:	11668535
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=68/85 L=125

Machines/Components

EC160, EC160 W, EW160



Part No:	11668536
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=68/75 L=187

Machines/Components

EC160, EC160 W, EW140, EW160

7. Guide pins and Guide sleeves



Part No:	11668537
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=78/85 L=223

Machines/Components

EC160, EC160 W, EW160



Part No:	11668538
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=56/60 L=100

Machines/Components

EC160, EC160 W, EW160



Part No:	11668544
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=88/90 L=110

Machines/Components

EC160, EC160 W, EW160

7. Guide pins and Guide sleeves



Part No:	11668548
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=80/85 L=120,5

Machines/Components

EW140



Part No:	11668549
Designation	Installation sleeve
Class	HYD
Used when	Inserting piston rod in cylinder end
Remark	D=63/70 L=163

Machines/Components

EW140



Part No:	14360069
Designation	Sleeve
Class	HYD
Used when	Cylinder head, installing
Remark	D=99 / d=75,5

Machines/Components

EC280

7. Guide pins and Guide sleeves



Part No:	14360071
Designation	Sleeve
Class	HYD
Used when	Cylinder head, installing
Remark	D=124 / d=90,5

Machines/Components
EC340



Part No:	14360072
Designation	Sleeve
Class	HYD
Used when	Cylinder head, installing
Remark	D=109 / d=85,5

Machines/Components
EC280, EC390



Part No:	14360073
Designation	Sleeve
Class	HYD
Used when	Cylinder head, installing
Remark	D=129 / d=95,5

Machines/Components
EC390

7. Guide pins and Guide sleeves



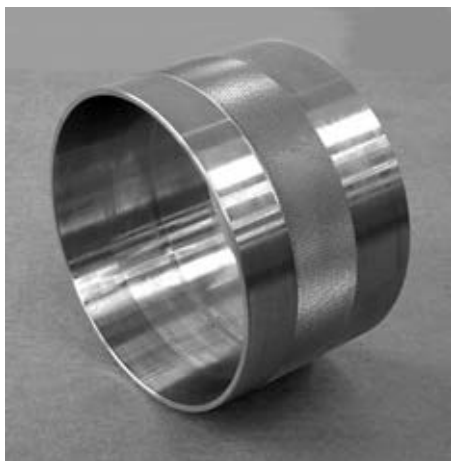
Part No:	14360074
Designation	Sleeve
Class	HYD
Used when	Cylinder head, installing
Remark	D=94 / d=70,5

Machines/Components
EC280



Part No:	14360091
Designation	Cone
Class	HYD
Used when	Piston seal, installing
Remark	D=171,4 / d=149

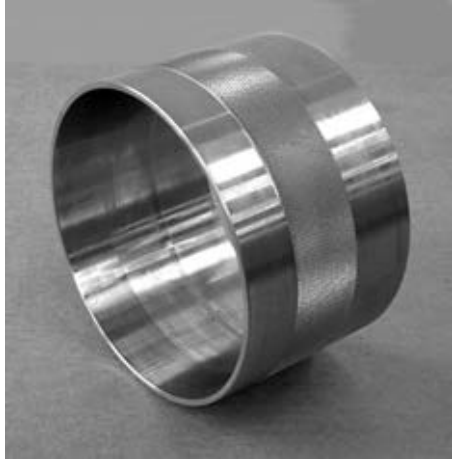
Machines/Components
EC340



Part No:	14360106
Designation	Sleeve
Class	HYD
Used when	Piston seal, installing
Remark	D=140

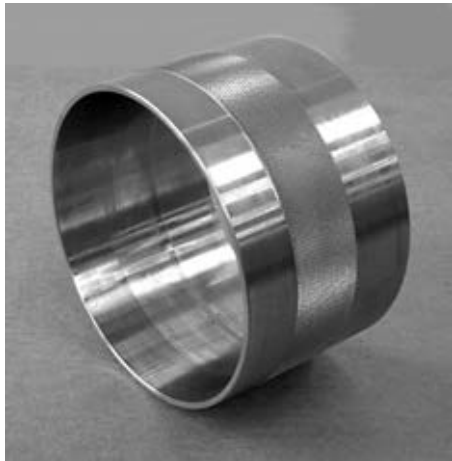
Machines/Components
EC280

7. Guide pins and Guide sleeves



Part No:	14360107
Designation	Sleeve
Class	HYD
Used when	Piston seal, installing
Remark	D=150

Machines/Components
EC280, EC340



Part No:	14360108
Designation	Sleeve
Class	HYD
Used when	Piston seal, installing
Remark	D=160

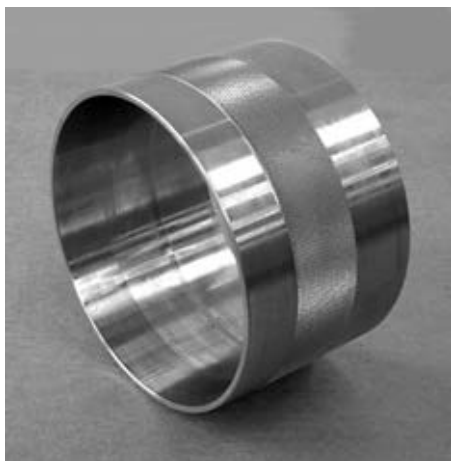
Machines/Components
EC280, EC390



Part No:	14360109
Designation	Sleeve
Class	HYD
Used when	Piston seal, installing
Remark	D=170

Machines/Components
EC340

7. Guide pins and Guide sleeves



Part No:	14360110
Designation	Sleeve
Class	HYD
Used when	Piston seal, installing
Remark	D=180

Machines/Components
EC390



Part No:	14360094
Designation	Cone
Class	HYD
Used when	Piston seal, installing
Remark	D=140 / d=130

Machines/Components
EC280



Part No:	14360095
Designation	Cone
Class	HYD
Used when	Piston seal, installing
Remark	D=150 / d=140

Machines/Components
EC280, EC340

7. Guide pins and Guide sleeves



Part No:	14360097
Designation	Cone
Class	HYD
Used when	Piston seal, installing
Remark	D=170 / d=160

Machines/Components
EC340



Part No:	14360098
Designation	Cone
Class	HYD
Used when	Piston seal, installing
Remark	D=180 / d=170

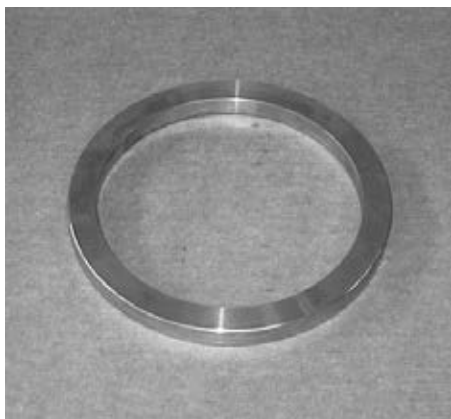
Machines/Components
EC390



Part No:	14360083
Designation	Installation ring
Class	HYD
Used when	Scraper ring, installing
Remark	D=140 / d=103

Machines/Components
EC280

7. Guide pins and Guide sleeves



Part No:	14360084
Designation	Installation ring
Class	HYD
Used when	Scraper ring, installing
Remark	D=135 / d=108,5

Machines/Components
EC280



Part No:	14360085
Designation	Installation ring
Class	HYD
Used when	Scraper ring, installing
Remark	D=140 / d=115,5

Machines/Components
EC340



Part No:	14360086
Designation	Installation ring
Class	HYD
Used when	Scraper ring, installing
Remark	D=165 / d=135

Machines/Components
EC340

7. Guide pins and Guide sleeves



Part No:	14360087
Designation	Installation ring
Class	HYD
Used when	Scraper ring, installing
Remark	D=170 / d=140

Machines/Components
EC390



Part No:	14360100
Designation	Plate
Class	HYD
Used when	Piston seal, installing
Remark	D=158

Machines/Components
EC280



Part No:	14360101
Designation	Plate
Class	HYD
Used when	Piston seal, installing
Remark	D=168

Machines/Components
EC280, EC340

7. Guide pins and Guide sleeves



Part No:	14360102
Designation	Plate
Class	HYD
Used when	Piston seal, installing
Remark	D=178

Machines/Components
EC280, EC390



Part No:	14360103
Designation	Plate
Class	HYD
Used when	Piston seal, installing
Remark	D=188

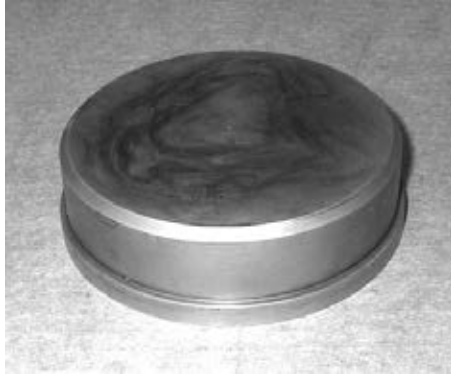
Machines/Components
EC340



Part No:	14360104
Designation	Plate
Class	HYD
Used when	Piston seal, installing
Remark	D=198

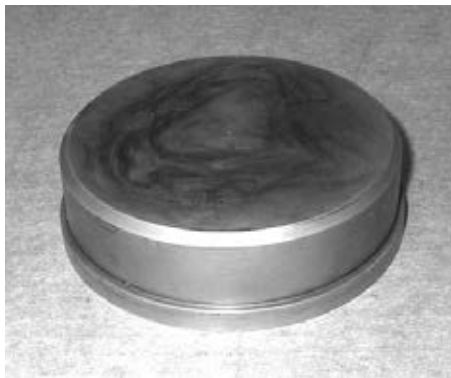
Machines/Components
EC390

7. Guide pins and Guide sleeves



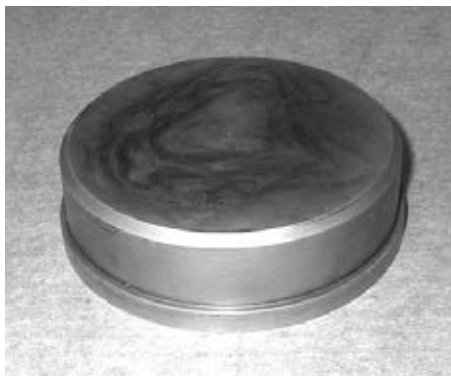
Part No:	14360076
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=99,6 / d=95

Machines/Components
EC280



Part No:	14360077
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=104,5 / d=100

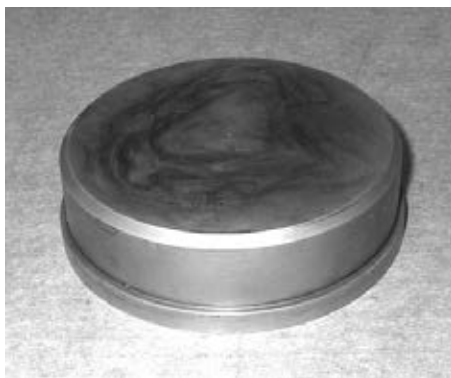
Machines/Components
EC280



Part No:	14360078
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=109,5 / d=105

Machines/Components
EC340

7. Guide pins and Guide sleeves



Part No:	14360079
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=114,6 / d=110

Machines/Components
EC280, EC390



Part No:	14360080
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=129,6 / d=125

Machines/Components
EC340



Part No:	14360081
Designation	Drift plate
Class	HYD
Used when	Bushing, installing
Remark	D=134,6 / d=130

Machines/Components
EC390



Part No:	8932-00360
Designation	Installation sleeve
Class	HYD
Used when	Boom and bucket cylinder heads, installing
Remark	D=75 / L=156

7. Guide pins and Guide sleeves

	Part No: Designation Class Used when Remark	14630323 Installation sleeve HYD Arm cylinder dust head, installing D=85 / L=200
Machines/Components EC160D L, EC180D L, EC220D L, EC235D NL		
	Part No: Designation Class Used when Remark	8920-00260 Installation sleeve HYD Installing arm cylinder head OD = 80 mm, ID 71 mm, L = 168 mm
	Part No: Designation Class Used when Remark	8920-00270 Installation sleeve HYD Installing arm cylinder head OD = 90 mm, ID 81 mm, L = 179 mm
	Part No: Designation Class Used when Remark	8920-01110 Installation sleeve HYD Arm cylinder head installing D=95 mm / L=179 mm

7. Guide pins and Guide sleeves

	Part No:	8920-01340
	Designation	Installation sleeve
	Class	EXT
	Used when	Boom and bucket cylinder heads, installing
	Remark	D=95 / L=180

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC

	Part No:	8920-01350
	Designation	Installation sleeve
	Class	EXT
	Used when	Dipper arm cylinder head, installing
	Remark	D=105 / L=180

Machines/Components

EC250D L, EC250D LR, EC250D NL, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D L, EC380D NL

	Part No:	14514404
	Designation	Installation sleeve
	Class	EXT
	Used when	Bucket cylinder head, installing
	Remark	D=110 / L=193

Machines/Components

EC460B LC, EC460B LCD, EC460B LR

7. Guide pins and Guide sleeves



Part No:	8920-01680
Designation	Installation sleeve
Class	EXT
Used when	Boom cylinder head, installing
Remark	D=110 / L=195

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC480D L



Part No:	14514406
Designation	Installation sleeve
Class	EXT
Used when	Bucket cylinder head, installing
Remark	D=110 / L=165

Machines/Components

EC360B LC, EC360B LCD, EC360B LR, EC360B NLC



Part No:	14514405
Designation	Installation sleeve
Class	EXT
Used when	Dipper arm cylinder head, installing
Remark	D=115 / L=178

Machines/Components

EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC380D L, EC380D NL, EC480D L

7. Guide pins and Guide sleeves



Part No:	14514180
Designation	Installation sleeve
Class	TRA
Used when	Slew gearbox seal, installing
Remark	D=130 / L=115

Machines/Components

EC290B LC, EC290B LCD, EC290B LR, EC290B NLC



Part No:	8920-01690
Designation	Installation sleeve
Class	EXT
Used when	Dipper arm cylinder head, installing
Remark	D=130 / L=188

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC480D L



Part No:	14527714
Designation	Guide
Class	TRA
Hook no	-----
Used when	Travel gearbox bearing, installing guide

Machines/Components

ECR58, ECR88

7. Guide pins and Guide sleeves



Part No:	8920-01410
Designation	Guide
Class	TRA
Hook no	-----
Used when	Swing gearbox shaft seal, installation

Machines/Components

EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC700B HR, EC700B LC, EC700C L, EC700C LD



Part No:	8920-00550
Designation	Drift
Class	EXT
Used when	Slew motor, seal

Machines/Components

EC200B, EC210B, EC210B CN, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, ECR145D L, ECR235C L, ECR235D L, FC2121C, FC2421C, PL4808D, SE170 W-3, SE210 LC-3



Part No:	8932-00480
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic cylinder head, installing

Machines/Components

EC140B LC, EC140B LCM, ECR88, EW145B

7. Guide pins and Guide sleeves



Part No:	14527914
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Blade cylinder head, installing

Machines/Components
ECR58



Part No:	14527917
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Blade cylinder head, installing

Machines/Components
ECR88



Part No:	14527915
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Swing cylinder head, installing

Machines/Components
ECR58

7. Guide pins and Guide sleeves



Part No:	14527916
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Dipper arm cylinder head, installing

Machines/Components
ECR88



Part No:	14527918
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Swing cylinder head, installing

Machines/Components
ECR88



Part No:	14527846
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic pump, seal protector

Machines/Components
ECR58

7. Guide pins and Guide sleeves



Part No:	14527928
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Boom cylinder head, installing

Machines/Components
ECR58



Part No:	14527929
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Dipper arm cylinder head, installing

Machines/Components
ECR58



Part No:	14527930
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Bucket cylinder head, installing

Machines/Components
ECR58

7. Guide pins and Guide sleeves



Part No:	14527931
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Swing cylinder head, installing

Machines/Components
ECR58



Part No:	14527932
Designation	Sleeve
Class	HYD
Hook no	-----
Used when	Boom cylinder head, installing

Machines/Components
ECR88



Part No:	14550036
Designation	Guide sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic boom cylinder, repacking

Machines/Components
EC700B LC, EC700C L, EC700C LD

7. Guide pins and Guide sleeves



Part No:	14550039
Designation	Guide sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic dipper arm cylinder, repacking

Machines/Components
EC700B LC



Part No:	14550041
Designation	Guide sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic dipper arm cylinder, repacking

Machines/Components
EC700B LC, EC700C L, EC700C LD



Part No:	14550043
Designation	Guide sleeve
Class	HYD
Hook no	-----
Used when	Hydraulic bucket cylinder, repacking

Machines/Components
EC700B LC, EC700C L, EC700C LD

7. Guide pins and Guide sleeves

	Part No:	14550045
	Designation	Guide sleeve
	Class	HYD
	Hook no	-----
	Used when	Hydraulic ME bucket cylinder, repacking
	Remark	ME (Mass excavation)

Machines/Components

EC700B LC, EC700C L, EC700C LD

	Part No:	14550037
	Designation	Installation tool
	Class	HYD
	Hook no	-----
	Used when	Hydraulic boom and bucket cylinder, repacking

Machines/Components

EC700B LC, EC700C L, EC700C LD

	Part No:	14550040
	Designation	Installation tool
	Class	HYD
	Hook no	-----
	Used when	Hydraulic dipper arm cylinder, repacking

Machines/Components

EC700B LC, EC700C L, EC700C LD

7. Guide pins and Guide sleeves



Part No:	14550046
Designation	Installation tool
Class	HYD
Hook no	-----
Used when	Hydraulic ME bucket cylinder, repacking
Remark	ME (Mass excavation)

Machines/Components

EC700B LC, EC700C L, EC700C LD



Part No:	8920-00650
Designation	Drift
Class	EXT
Used when	Slew motor, seal

Machines/Components

SE350 LC-3



Part No:	8920-00660
Designation	Drift
Class	EXT
Used when	Slew motor, seal protector

Machines/Components

SE350 LC-3

7. Guide pins and Guide sleeves



Part No:	8920-01390
Designation	Installation sleeve
Class	EXT
Used when	Slew gearbox shaft bearing, installing
Remark	D=160 / L=84

Machines/Components

EC460B LC, EC460B LCD, EC460B LR



Part No:	8920-00480
Designation	Drift
Class	EXT
Used when	Axle, hub seal

Machines/Components

SE170 W-3



Part No:	8920-00490
Designation	Drift
Class	EXT
Used when	Axle, spindle seal

Machines/Components

SE170 W-3

7. Guide pins and Guide sleeves



Part No:	8920-00510
Designation	Drift
Class	EXT
Used when	Axle, differential, seal

Machines/Components
SE170 W-3



Part No:	8932-00050
Designation	Drift
Class	HYD
Used when	Removing oil seal assembly, slew motor

Machines/Components
SE240 LC-3



Part No:	8932-00220
Designation	Drive ring
Class	HYD
Used when	Floating seal, travel motor

Machines/Components
SE210 LC-3



Part No:	8932-00230
Designation	Drive ring
Class	HYD
Used when	Floating seal, travel motor

Machines/Components
SE210 LC-3

7. Guide pins and Guide sleeves



Part No:	8932-00240
Designation	Drive ring
Class	HYD
Used when	Floating seal, travel motor

Machines/Components
SE210 LC-3



Part No:	8932-00400
Designation	Drive ring
Class	HYD
Used when	Reduction gear seal, travel motor

Machines/Components
EC460B LC, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, PL4608, PL4611, PL4808D, SE250 LC-2



Part No:	8933-00430
Designation	Installation sleeve
Class	TRA
Used when	Slew gearbox shaft bearing, installing
Remark	D=150 / L=89,5

Machines/Components
EC135B LC, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC650, ECR145C L



Part No:	8933-00930
Designation	Installation sleeve
Class	TRA
Hook no	-----
Used when	Swing motor brake piston, installing

7. Guide pins and Guide sleeves

Machines/Components

EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC700B HR, EC700B LC, EC700C L, EC700C LD



Part No:	88830423
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830424
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830425
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830426
Designation	Installation sleeve
Class	HYD
Used when	Piston installing

7. Guide pins and Guide sleeves



Part No:	88830427
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830428
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830429
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830430
Designation	Installation sleeve
Class	HYD
Used when	Piston installing

7. Guide pins and Guide sleeves



Part No: 88830431
Designation Installation sleeve
Class HYD
Used when Piston installing



Part No: 88830432
Designation Installation sleeve
Class HYD
Used when Piston installing



Part No: 88830433
Designation Installation sleeve
Class HYD
Used when Piston installing



Part No: 88830434
Designation Installation sleeve
Class HYD
Used when Piston installing

7. Guide pins and Guide sleeves



Part No:	88830435
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830436
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830437
Designation	Installation sleeve
Class	HYD
Used when	Piston installing



Part No:	88830458
Designation	Installation sleeve
Class	HYD
Used when	Piston installing

7. Guide pins and Guide sleeves



Part No:	9993618
Designation	Centring tool
Class	EXT
Hook no	9999817
Used when	Seal ring on front output shaft, centring

Machines/Components
A20C, A25C, A25C 4x4, AH54



Part No:	9993672
Designation	Spacer
Class	AXL
Hook no	9999813
Used when	Gear wheel to pinion shaft, installing

Machines/Components
AH54



Part No:	9993712
Designation	Socket
Class	TRA
Hook no	9999811
Used when	Shaft, hub, installing

Machines/Components
D12C, D12D, HT200, HT201, HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305, L150D, L180D, L180D HL, L50D, L50E, L70C, L70D, TD122

7. Guide pins and Guide sleeves



Part No:	9993815
Designation	Installation ring
Class	EXT
Hook no	9999812
Used when	Rear crankshaft sealing, installing.

Machines/Components

TD40



Part No:	14527718
Designation	Centring tool
Class	TRA
Hook no	-----
Used when	Swing motor, reconditioning

Machines/Components

ECR58, ECR88



Part No:	9993738
Designation	Guide pin
Class	TRA
Hook no	9512762
Used when	Control valve, installing

Machines/Components

PT1560, PT1562, PT1563, PT1661, PT1860, PT1862, PT1863

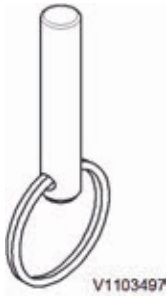


Part No:	9993887
Designation	Locking tool
Class	EXT
Hook no	9999833
Used when	Injection pump, installing

Machines/Components

L50D

7. Guide pins and Guide sleeves



Part No:	88830303
Designation	Locking tool
Class	EXT
Used when	Use to correctly align the crankshaft at top dead centre (TDC). Use to align the camshaft in the correct timed position when removing/fitting the fuel injection pump.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	88830305
Designation	Guide
Class	EXT
Used when	Use to correctly align the sump, prevent sump movement during fitting.
Remark	NOTE! Correct positioning of the sump is critical to ensure a good joint and prevent leaks.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	88830421
Designation	Installation tool
Class	ENG
Used when	Piston mouting

Machines/Components

D4H, D6H, D8H



Part No:	9993734
Designation	Tool
Class	HYD
Hook no	9988588
Used when	Boom suspension system accumulator, reconditioning

Machines/Components

L330D, L330E, L70C

7. Guide pins and Guide sleeves



Part No:	9993838
Designation	Guide sleeve
Class	EXT
Hook no	-----
Used when	Hub, installing

Machines/Components

A35D



Part No:	9993840
Designation	Guide sleeve
Class	EXT
Used when	Hub, installing

Machines/Components

A40, A40D, AHW71, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, T450D



Part No:	9993856
Designation	Guide
Class	EXT
Used when	Ring gear, installing

Machines/Components

L330C, L330C LL, L330D, L330E

7. Guide pins and Guide sleeves



Part No:	9993684
Designation	Adapter
Class	TRA
Hook no	9999811
Used when	Intermediate shaft, installing

Machines/Components
FL752



Part No:	9993858
Designation	Adapter
Class	TRA
Hook no	9989358
Used when	Rotation of shaft

Machines/Components
HT205, HT210, HT220



Part No:	88830196
Designation	Rotation tool
Class	TRA
Hook no	9512762
Used when	Rotation of shaft
Remark	Replaces 9993860

Machines/Components

HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521), HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522), HTE220 (22554), HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL220, HTL305

7. Guide pins and Guide sleeves



Part No:	9993806
Designation	Adjusting plate
Class	EXT
Hook no	9999817
Used when	Differential lock, adjusting engagement

Machines/Components

AWB40B, L110E, L110F, L120D, L120E, L120F, L150D, L150E, L150F, L150G, L180D, L180D HL, L180E, L180E HL, L180F, L180F HL, L180G, L220F, L220G, L50D, L50E, L60E, L60F, L70D, L90D, L90D OR



Part No:	9993625
Designation	Guide
Class	BAS
Hook no	9999811
Used when	Engine crankshaft, rotating

Machines/Components

L150D, L150E, L180D, L180D HL, L220D, TD103, TD122



Part No:	88830035
Designation	Guide
Class	BAS
Hook no	9999811
Used when	Crankshaft, engine, rotating
Remark	Used together with 9993590

Machines/Components

D9A, L150E

7. Guide pins and Guide sleeves



Part No:	88830036
Designation	Guide
Class	BAS
Hook no	9999811
Used when	Crankshaft, engine, rotating
Remark	Used together with 9993590

Machines/Components

D16E, L350F



Part No:	885530
Designation	Rotation tool
Class	EXT
Hook no	9999811
Used when	Engine, rotating
Remark	Replaces 9998676

Machines/Components

BL60, BL60B, BL61, BL61 PLUS, BL61B, BL70, BL70B, BL71, BL71 PLUS, BL71B, D4D, D6D, D7D, EC200B, EW140D, EW160D, EW180D, EW210D, L110E, L110F, L120E, L120F, L40B, L45B, L45F, L45G, L50E, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, PT220, SD110, SD115

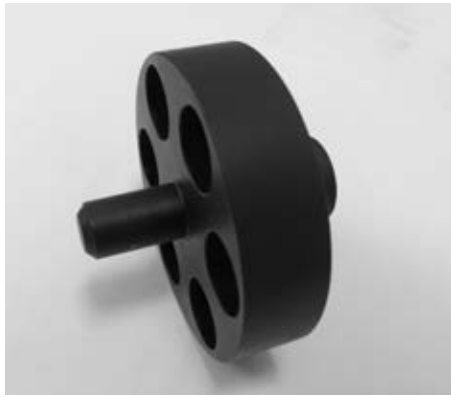


Part No:	88830207
Designation	Rotation tool
Class	EXT
Used when	Engine rotating
Remark	Rotating Deutz engine

Machines/Components

D4H, D6H, D8H, SD115

7. Guide pins and Guide sleeves



Part No:	88830197
Designation	Rotation tool
Class	BAS
Hook no	9988586
Used when	Engine, rotating

Machines/Components

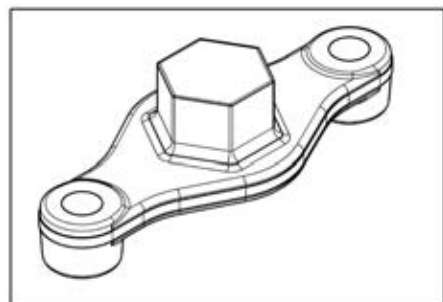
G930B, G940B, G946B, G960B, P7820C ABG (12762881), P8820C ABG (12763184), SD115



Part No:	9998681
Designation	Rotation tool
Class	ENG
Hook no	9999814
Used when	Rotating engine
Remark	For use on D4 and D6 engines 2 pc. 10 mm distance sleeves are needed. Distances are not delivered with the tool. Part number 930417 can be used.

Machines/Components

D3.6D, D4E, D4H, D5D, D5E, D6E, D6H, D7D, D7E, D8H, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180C L, EC180D L, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, EW140B, EW140C, EW140D, EW145B, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, FC2121C, FC2421C, FC2924C, FC3329C, G710B, G720B, G726B, G730B, G740B, G746B, G780B, G930, G940, G946, G960, L50E



Part No:	15182963
Designation	Rotation tool
Class	BAS
Used when	Rotate engine

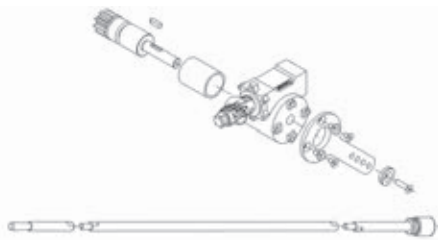
7. Guide pins and Guide sleeves



Part No:	11668403
Designation	Rotation tool
Class	EXT
Hook no	-----
Used when	Fuel pump

Machines/Components

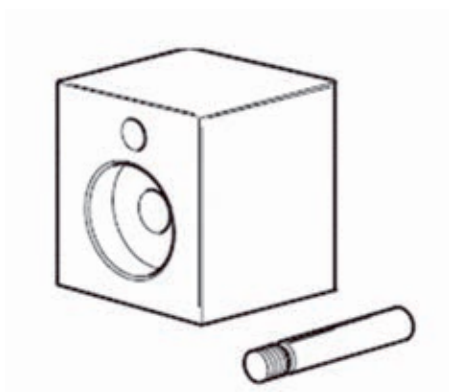
D4D, EW140B, L50E



Part No:	11668024
Designation	Rotation tool
Class	EXT
Hook no	-----
Used when	Used for rotating engine

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D16F (15050684), D16H (15050683), D16H (15117877), EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, PL3005D, T450D



Part No:	88830324
Designation	Guide
Class	ENG
Used when	Idler hub alignment tool

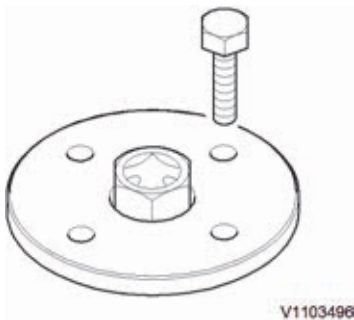
7. Guide pins and Guide sleeves



Part No:	9998267
Designation	Guide
Class	ENG
Hook no	9512762
Used when	Timing gear plate

Machines/Components

D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870)



Part No:	88830302
Designation	Rotation tool
Class	EXT
Used when	Use to manually turn the crankshaft, for instance when setting top dead centre (TDC). 4 x mounting holes to suit crankshaft pulley.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	88800011
Designation	Guide sleeve
Class	ENG
Hook no	9988586
Used when	Seal, valve spindle
Remark	Replaces 9998335

Machines/Components

D12C, D12D, D9A, D9B, TD73

7. Guide pins and Guide sleeves



Part No:	11668020
Designation	Transport brace
Class	EXT
Hook no	9999817
Used when	Converter, securing

Machines/Components

5350, A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419), T450D



Part No:	1650540
Designation	Transport brace
Class	EXT
Hook no	9999817
Used when	Converter, securing

Machines/Components

A30C, A35C, A40, PT1660

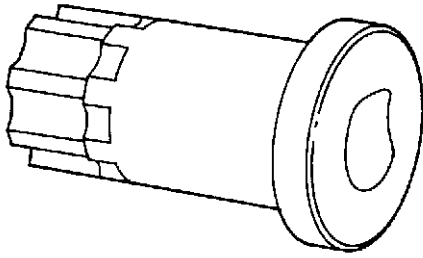


Part No:	9993817
Designation	Locking tool
Class	EXT
Hook no	9989356
Used when	Locking crown gear when measuring tooth backlash

Machines/Components

AWB20, AWB25

7. Guide pins and Guide sleeves



Part No:	8920-00130
Designation	Barring gear
Class	EXT
Used when	Cranking engine by flywheel



Part No:	9998624
Designation	Installation tool
Class	ENG
Hook no	9999811
Used when	Cylinder head, installing

Machines/Components
D12C, D12D



Part No:	9998601
Designation	Installation tool
Class	ENG
Hook no	9999812
Used when	Cylinder head, installing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B

7. Guide pins and Guide sleeves



Part No:	9998602
Designation	Press tool
Class	ENG
Hook no	9999812
Used when	Timing gear casing, installing

Machines/Components

A35D, A35E, A35E FS, A40D, D12C, D12D, L180E, L220E, T450D



Part No:	9998628
Designation	Press tool
Class	ENG
Hook no	9988587
Used when	Timing gear casing, installing

Machines/Components

A35D, A35E, A35E FS, A40D, D12C, D12D, L180E, L220E, T450D

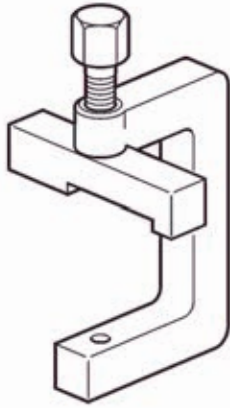


Part No:	9998389
Designation	Press tool
Class	ENG
Hook no	9999812
Used when	Cylinder haed, installing

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), D11F (15050661), D11H (15050660), D11H (15050662), D9A, D9B

7. Guide pins and Guide sleeves



Part No:	9998318
Designation	Press tool
Class	ENG
Hook no	-----
Used when	Upper timing gear casing, installing

Machines/Components

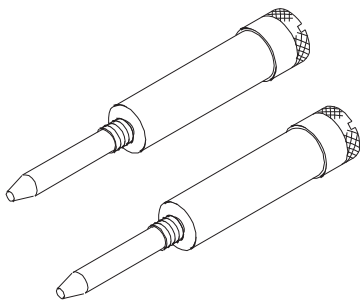
A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	9998684
Designation	Installation tool
Class	EXT
Hook no	9999817
Used when	Installing control rod

Machines/Components

D4D, D5D



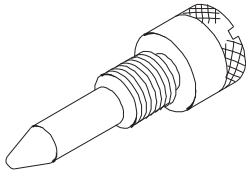
Part No:	2289391
Designation	Adjustment screws
Class	ENG
Hook no	-----
Used when	Adjustment of crankshaft and camshaft

M200866A

Machines/Components

D3D, L20B, L20F, L25B, L25F, L30B, L35B

7. Guide pins and Guide sleeves



Part No:	2289392
Designation	Adjustment screws
Class	ENG
Hook no	-----
Used when	Adjustment of injection pump system

M200867A

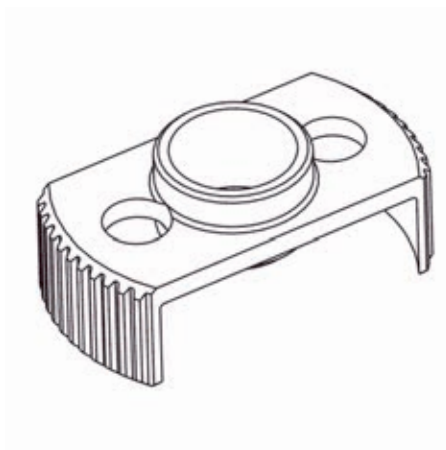
Machines/Components D3D



Part No:	88830002
Designation	Guide
Class	AXL
Hook no	-----
Used when	AWD wheel motor, seal kit, installation

Machines/Components

G710B, G720B, G726B, G730B, G740B, G746B, G780B, G946, G976



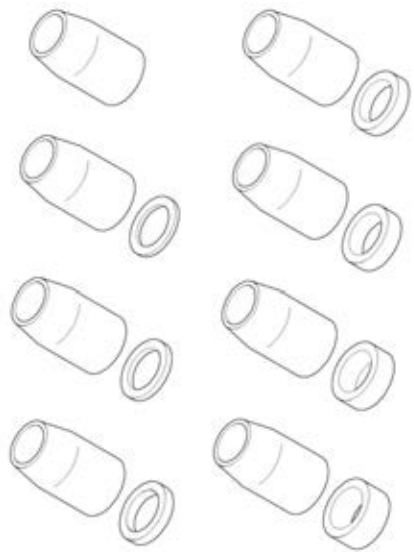
Part No:	88800055
Designation	Guide
Class	TRA
Hook no	9999814
Used when	Centering clutch discs when installing

Machines/Components

PT1506, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

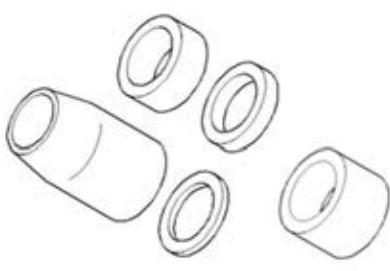
7. Guide pins and Guide sleeves

	Part No:	88830323
	Designation	Protecting sleeve
	Class	ENG
	Used when	Front housing seal protector

	Part No:	11668344
	Designation	Protecting sleeve
	Class	TRA
	Hook no	-----
	Used when	Installation of seal ring
	Remark	Kit with: protection sleeve and 14 sizes of shim

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B

	Part No:	11668355
	Designation	Protecting sleeve
	Class	AXL
	Used when	Installation of sealing (central body)

Machines/Components

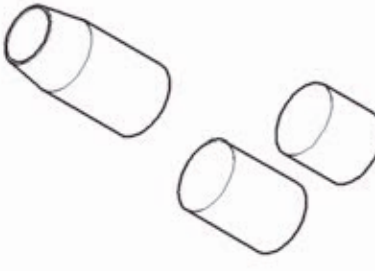
28.32-H-A, 28.32-M-A, 28.43

7. Guide pins and Guide sleeves

	<table> <tr> <td>Part No:</td><td>11668358</td></tr> <tr> <td>Designation</td><td>Protecting sleeve</td></tr> <tr> <td>Class</td><td>TRA</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Installation of seal ring</td></tr> <tr> <td>Remark</td><td>Used together with 11668360 and 11668361</td></tr> </table>	Part No:	11668358	Designation	Protecting sleeve	Class	TRA	Hook no	-----	Used when	Installation of seal ring	Remark	Used together with 11668360 and 11668361
Part No:	11668358												
Designation	Protecting sleeve												
Class	TRA												
Hook no	-----												
Used when	Installation of seal ring												
Remark	Used together with 11668360 and 11668361												

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B

	<table> <tr> <td>Part No:</td><td>11668359</td></tr> <tr> <td>Designation</td><td>Protecting sleeve</td></tr> <tr> <td>Class</td><td>TRA</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Installation of sealing ring</td></tr> <tr> <td>Remark</td><td>Used together with 11668362 and 11668363</td></tr> </table>	Part No:	11668359	Designation	Protecting sleeve	Class	TRA	Hook no	-----	Used when	Installation of sealing ring	Remark	Used together with 11668362 and 11668363
Part No:	11668359												
Designation	Protecting sleeve												
Class	TRA												
Hook no	-----												
Used when	Installation of sealing ring												
Remark	Used together with 11668362 and 11668363												

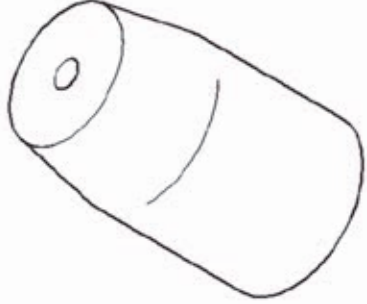
Machines/Components

TLB2 SD 4WD

	<table> <tr> <td>Part No:</td><td>11668366</td></tr> <tr> <td>Designation</td><td>Protecting sleeve</td></tr> <tr> <td>Class</td><td>TRA</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Installation of sealing ring</td></tr> <tr> <td>Remark</td><td>Used together with 11668367 and 11668369</td></tr> </table>	Part No:	11668366	Designation	Protecting sleeve	Class	TRA	Hook no	-----	Used when	Installation of sealing ring	Remark	Used together with 11668367 and 11668369
Part No:	11668366												
Designation	Protecting sleeve												
Class	TRA												
Hook no	-----												
Used when	Installation of sealing ring												
Remark	Used together with 11668367 and 11668369												

Machines/Components

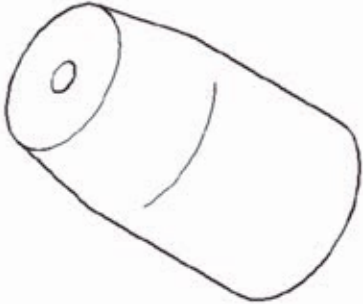
TLB2 4WD-A, TLB2 4WD-B

	<table> <tr> <td>Part No:</td><td>11668379</td></tr> <tr> <td>Designation</td><td>Protecting sleeve</td></tr> <tr> <td>Class</td><td>TRA</td></tr> <tr> <td>Hook no</td><td>-----</td></tr> <tr> <td>Used when</td><td>Teflon seal ring, installing</td></tr> </table>	Part No:	11668379	Designation	Protecting sleeve	Class	TRA	Hook no	-----	Used when	Teflon seal ring, installing
Part No:	11668379										
Designation	Protecting sleeve										
Class	TRA										
Hook no	-----										
Used when	Teflon seal ring, installing										

Machines/Components

TLB1 4WD-B

7. Guide pins and Guide sleeves

	Part No:	11668380
	Designation	Protecting sleeve
	Class	TRA
	Hook no	-----
	Used when	Teflon seal ring, installing

	Part No:	11668360
	Designation	Installation tool
	Class	TRA
	Hook no	-----
	Used when	Installation of sealing ring

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B

	Part No:	11668362
	Designation	Installation tool
	Class	TRA
	Hook no	-----
	Used when	Installation of sealing ring

Machines/Components

TLB2 SD 4WD

	Part No:	11668369
	Designation	Installation tool
	Class	TRA
	Hook no	-----
	Used when	Installation of sealing ring

Machines/Components

TLB2 4WD-A, TLB2 4WD-B

7. Guide pins and Guide sleeves



Part No:	11668328
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of seal ring

Machines/Components

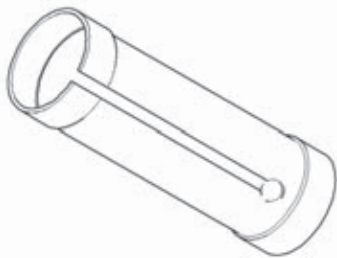
TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B



Part No:	11668361
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of sealing ring

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B



Part No:	11668346
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of seal ring

Machines/Components

TLB1 2WD-A, TLB1 2WD-B, TLB1 4WD-A, TLB1 4WD-B, TLB2 4WD-A, TLB2 4WD-B



Part No:	11668363
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of sealing ring

Machines/Components

TLB2 SD 4WD

7. Guide pins and Guide sleeves



Part No:	11668367
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of sealing ring

Machines/Components

TLB2 4WD-A, TLB2 4WD-B



Part No:	11668365
Designation	Installation tool
Class	TRA
Hook no	-----
Used when	Installation of sealing ring
Remark	Used together with 11668368

Machines/Components

TLB2 4WD-A, TLB2 4WD-B



Part No:	11668368
Designation	Protecting sleeve
Class	TRA
Hook no	-----
Used when	Installation of sealing ring

Machines/Components

TLB2 4WD-A, TLB2 4WD-B

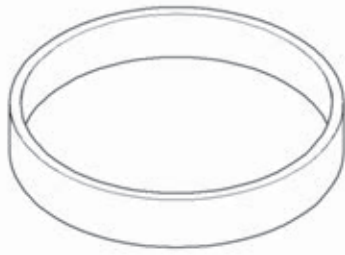


Part No:	11668348
Designation	Protecting sleeve
Class	TRA
Hook no	-----
Used when	Installation of clutch piston

Machines/Components

TLB1 4WD-A, TLB2 SD 4WD

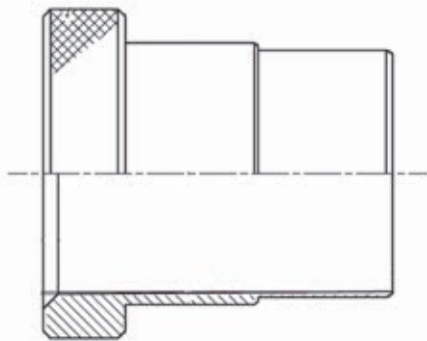
7. Guide pins and Guide sleeves



Part No:	11668347
Designation	Guide
Class	TRA
Hook no	-----
Used when	Installation of spring

Machines/Components

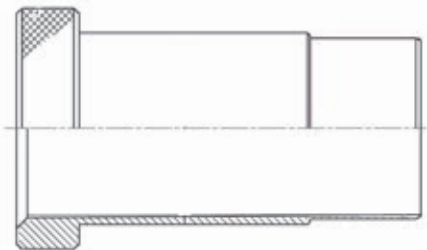
TLB1 4WD-A



Part No:	2915095
Designation	Protecting sleeve
Class	HYD
Hook no	-----
Used when	Repair of hydraulic cylinder for attachment bracket, changing seal
Remark	Attachment bracket not mounted on lift arms

Machines/Components

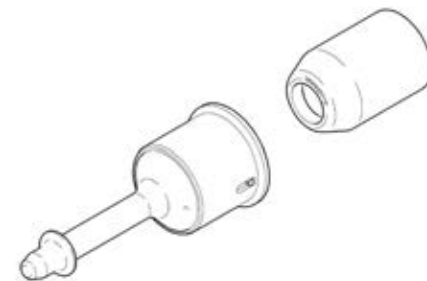
L30B, L35B, L40B, L45B



Part No:	2915096
Designation	Protecting sleeve
Class	HYD
Hook no	-----
Used when	Repair of hydraulic cylinder for attachment bracket, changing seal
Remark	Attachment bracket mounted on lift arms

Machines/Components

L20B, L20F, L25B, L25F, L30B, L35B, L40B, L45B, L45F, L45G, L50F, L50G

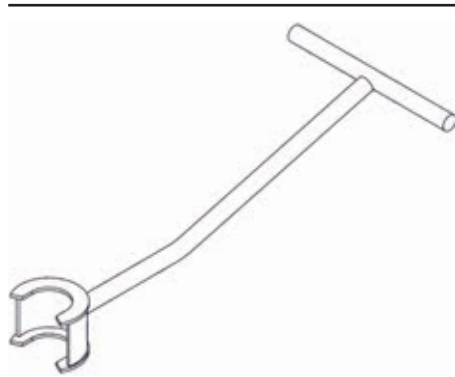


Part No:	88830107
Designation	Installation tool
Class	EXT
Used when	Installation of sealings, tool includes drift and guide
Remark	Drift 50mm

Machines/Components

EW140C, EW160C, EW180C, EW210C

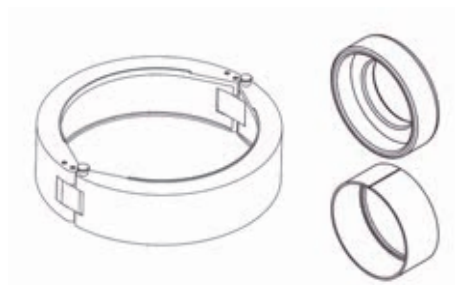
7. Guide pins and Guide sleeves



Part No:	88830122
Designation	Installation tool
Class	AXL
Used when	Installing spring for transverse differential lock.

Machines/Components

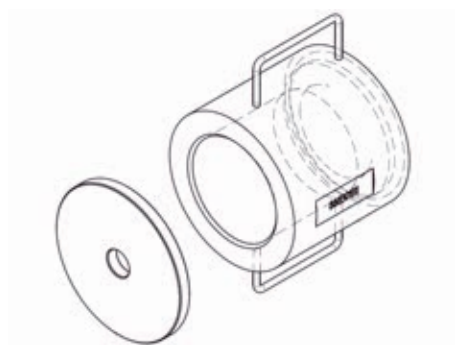
ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038)



Part No:	88830129
Designation	Installation tool
Class	AXL
Used when	Installing all face seals in hub end
Remark	The tool consists of 3 parts

Machines/Components

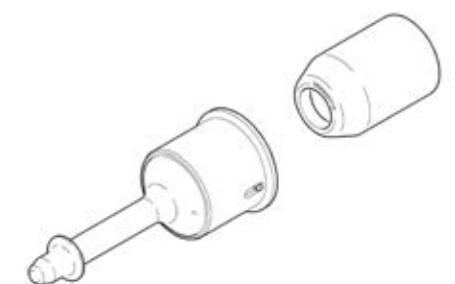
A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038)



Part No:	88830131
Designation	Installation tool
Class	EXT
Used when	Installation of rubber bushings

Machines/Components

PT125



Part No:	88830108
Designation	Installation tool
Class	EXT
Used when	Installation of sealings, tool includes drift and guide
Remark	Drift 60mm

Machines/Components

EW140C, EW160C, EW180C, EW210C

7. Guide pins and Guide sleeves



Part No:	88830143
Designation	Installation tool
Class	EXT
Used when	Install guide tubes

Machines/Components

Ultimat 200



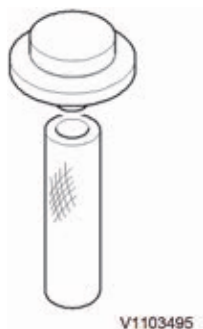
Part No:	46659850
Designation	Installation tool
Class	EXT
Used when	Install the coupling between the crank pulley and the vibration pump



Part No:	88830191
Designation	Guide
Class	EXT
Used when	Removing of bearing and shaft.

Machines/Components

DD22, DD24, DD25 (12759565)

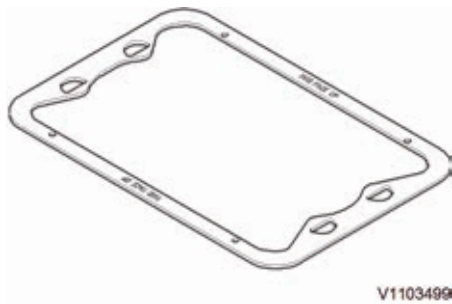


Part No:	88830301
Designation	Guide
Class	EXT
Used when	Use to correctly fit cylinder block core plugs. Tool includes handle and different size cups to suit various size core plugs.

Machines/Components

MC110C, MC115C, MCT125C, MCT135C, MCT145C

7. Guide pins and Guide sleeves



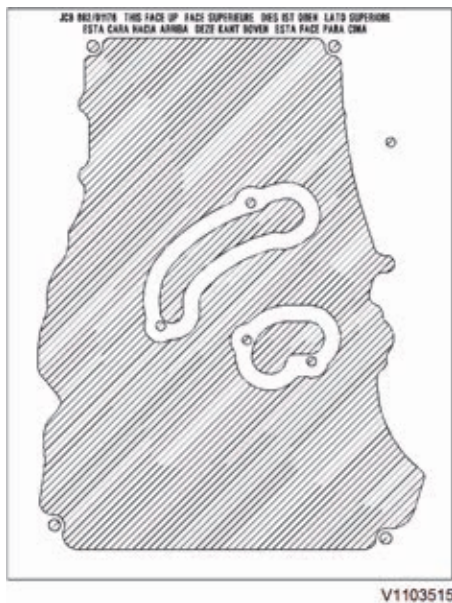
Part No:	88830304
Designation	Template
Class	EXT
Used when	Use to ensure correct sealant application.
Remark	NOTE! Correct positioning of the sealant is critical to prevent leaks.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	88830319
Designation	Template
Class	EXT
Used when	Use to ensure correct sealant application.
Remark	NOTE! Correct positioning of the sealant is critical to ensure joint integrity.



Part No:	88830320
Designation	Template
Class	EXT
Used when	Use to ensure correct sealant application.
Remark	NOTE! Correct positioning of the sealant is critical to ensure joint integrity.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



Part No:	88830325
Designation	Template
Class	EXT
Used when	Use to ensure correct sealant application.
Remark	NOTE! Correct positioning of the sealant is critical to ensure joint integrity.

7. Guide pins and Guide sleeves



V1103501

Part No:	88830306
Designation	Installation tool
Class	EXT
Used when	Use to fit and remove the injector sleeves. The sleeves are prefitted on cylinder head assemblies.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

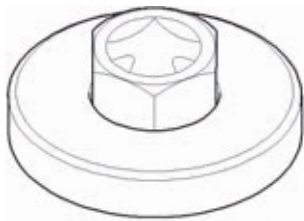


V1103502

Part No:	88830307
Designation	Installation tool
Class	EXT
Used when	Use to ensure positive engagement of the valve stem seals.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



V1103503

Part No:	88830308
Designation	Injection pump tool
Class	EXT
Used when	Use to gain access to the FIP gear retaining locknut. The tool is used to remove the tamper proof cover.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



V1103509

Part No:	88830314
Designation	Gauge
Class	EXT
Used when	Use to correctly set and fit the rocker cover injector seals.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

7. Guide pins and Guide sleeves

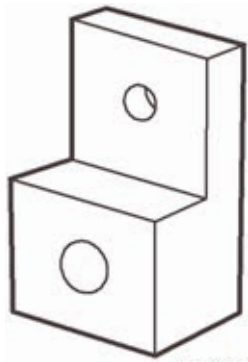


V1103510

Part No:	88830315
Designation	Gauge
Class	EXT
Used when	Use in place of the injector to check engine compression. End drilled and tapped 1/8-28BSP to accept universal adaptor fitting.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C



V1103512

Part No:	88830317
Designation	Setting tool
Class	EXT
Used when	Use to correctly set the No. 1 piston to TDC (firing) when removing and replacing the fuel injection pump.

Machines/Components

MC110C, MC115C, MC155C, MCT125C, MCT135C, MCT145C

8. Pliers



Part No:	88890037
Designation	Disassembly tool
Class	EXT
Hook no	-----
Used when	Kit with dismantling tools for cable terminals

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, BL60, BL61, BL70, BL71, EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC210C L, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC35C, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC480D L, EC55C, EC60C, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR28, ECR305C L, ECR38, ECR58, ECR88, EW140C, EW160C, EW180C, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G940, G946, G960, G970, G976, G990, L20B, L25B, L30B, L330E, L350F, L35B, L40B, L45B, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, PL4608, PL4611



Part No:	11666161
Designation	Disassembly tool
Class	EXT
Used when	Cable terminals removing. Diameter 1.2 mm, round
Remark	Included in kit 88890037



Part No:	11709649
Designation	Disassembly tool
Class	EXT
Used when	Cable terminals removing. Deutsch connectors size 12
Remark	Included in kit 88890037, replaces the old ones of plastic which are included in 11666200.



Part No:	11709655
Designation	Disassembly tool
Class	EXT
Used when	Cable terminals removing. Deutsch connectors size 20
Remark	Included in kit 88890037, replaces the old ones of plastic which are included in 11666200.

8. Pliers

	Part No: Designation Class Used when	11709666 Disassembly tool EXT Cable terminals removing. Deutsch connectors size 16
	Remark	Included in kit 88890037, replaces the old ones of plastic which are included in 11666200.
	Part No: Designation Class Used when Remark	88890001 Disassembly tool EXT Cable terminals removing. 2.8 mm, flat Included in kit 88890037
	Part No: Designation Class Used when Remark	88890028 Disassembly tool EXT Cable terminals removing. 0.64 mm, flat Included in kit 88890037, replaces 9512630
	Part No: Designation Class Used when Remark	88890029 Disassembly tool EXT Cable terminals removing. 2.8 mm, flat Included in kit 88890037
	Part No: Designation Class Used when Remark	88890036 Disassembly tool EXT Cable terminals removing. 0.63 mm, flat Included in kit 88890037
	Part No: Designation Class Used when Remark	88890038 Disassembly tool EXT Used for secondary locks on different connectors Included in kit 88890037

Machines/Components

PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

	Part No: Designation Class Used when Remark	88890056 Disassembly tool EXT Disassembly tool for electrical connectors Included in kit 88890037
---	--	---

8. Pliers

	Part No: Designation Class Used when Remark	88890098 Disassembly tool EXT Disassembly tool for electrical connectors Included in kit 88890037
	Part No: Designation Class Used when Remark	9808644 Disassembly tool EXT Cable terminals removing. 5.8 mm, flat Included in kit 88890037
	Part No: Designation Class Used when Remark	9808645 Disassembly tool EXT Cable terminals removing. 4 pins Included in kit 88890037, replaces 11666160
	Part No: Designation Class Used when Remark	9808646 Disassembly tool EXT Cable terminals removing. Diameter 2.3 mm, round Included in kit 88890037, replaces 11666159
	Part No: Designation Class Hook no Used when Remark	9808649 Disassembly tool EXT 9989353 Cable terminal removing, flat Included in kit 88890037, replaces 9512632, 9512633, 9512637, 9512638, 9512639
	Part No: Designation Class Hook no Used when Remark	9808650 Disassembly tool EXT 9989353 Cable terminals removing. 4 pins Included in kit 88890037

8. Pliers

	Part No: Designation Class Hook no Used when Remark	9809774 Disassembly tool EXT 9512762 Cable terminal removing, 3 pins Included in kit 88890037, Used for new version of connector, 9808646 fits the earlier version.
	Part No: Designation Class Hook no Used when Remark	9812475 Disassembly tool EXT 9989353 Cable terminals removing. 2.8 mm, flat Included in kit 88890037, replaces 9512631
	Part No: Designation Class Hook no Used when Remark	9812480 Disassembly tool EXT ----- Cable terminals removing. Diameter 1.5-1.6 mm, round Included in kit 88890037, replaces 9512635
	Part No: Designation Class Hook no Used when Remark	9812481 Disassembly tool EXT 9989353 Cable terminals removing. Diameter 3.5 mm, round Included in kit 88890037, replaces 9512634
	Part No: Designation Class Used when Remark	9812482 Disassembly tool EXT Cable terminals removing. Diameter 4.0 mm, round Included in kit 88890037, replaces installation sleeve 9812476
	Part No: Designation Class Used when Remark	9812483 Disassembly tool EXT Cable terminals removing. Diameter 2.5 mm, round Included in kit 88890037, replaces 11666158



Part No:	9993880
Designation	Electric repair kit
Class	EXT
Used when	Cable terminals, installing
Remark	Sparepart 11666215

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), T450D



Part No:	11666200
Designation	Electric repair kit
Class	EXT
Used when	Cable terminals, installing

Machines/Components

A25D, A25D 4x4, A30D, A35D, A40D, BL60, BL61, BL70, BL71, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC15B XR, EC15B XT, EC15B XTV, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC180B LC, EC180C L, EC200B, EC210B, EC210B LC, EC210C L, EC210C LR, EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240B LC, EC240C L, EC240C LR, EC240C NL, EC290B LC, EC290C L, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC35, EC35C, EC360B LC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460B LC, EC460C HR, EC460C L, EC460C LD, EC480D L, EC55C, EC60C, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR28, ECR305C L, ECR38, ECR58, ECR88, EW140B, EW140C, EW160B, EW160C, EW180B, EW180C, EW200B, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G940, G946, G960, G970, G976, G990, L110E, L120E, L150E, L180E, L20B, L220E, L25B, L30B, L330E, L350F, L35B, L40B, L45B, L50E, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, PL3005D, PL4608, PL4611, PL4808D

8. Pliers



Part No:	9512652
Designation	Pliers
Class	EXT
Hook no	9999834
Used when	Cable terminals, crimping



Part No:	9512772
Designation	Pliers
Class	EXT
Hook no	9999834
Used when	Cable terminals, crimping



Part No:	9512773
Designation	Pliers
Class	EXT
Hook no	9999834
Used when	Cable terminals, crimping



Part No:	9808642
Designation	Pliers
Class	EXT
Hook no	9999834
Used when	Cable terminals, crimping

8. Pliers



Part No:	11709650
Designation	Pliers
Class	EXT
Used when	Plier for Deutsch connectors
Remark	Included in 11666200



Part No:	14030335
Designation	Scissors
Class	EXT
Used when	Cutting slewing ring seal

Machines/Components

EC230, EC300, EC420, EC650, EW230



Part No:	9993762
Designation	Tool
Class	EXT
Hook no	9988587
Used when	Brake pipe, bending

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40



Part No:	9999175
Designation	Retainer
Class	EXT
Hook no	9989357
Used when	Seal ring in air-condition compressor, installing



Part No:	9993579
Designation	Installation tool
Class	EXT
Hook no	9989338
Used when	Seals in hydraulic cylinder, installing

Machines/Components

A20C, A25C, A25C 4x4, A25E, A25E 4x4, A25F (37214), A30C, A30E, A30F (37432), A35C, A35E FS, A35F (37142), A35F FS (37141), A40, A40E FS, A40F (37535), A40F FS (37534), EC200B, HB1100, HB1400, HB1700, HB2400, HB3200, HB3800, L110F, L120F, L150E, L150G, L180E, L180G, L220E, L220G, L350F, L60F, L70F, L90F

8. Pliers

	Part No:	49765
	Designation	Installation tool
	Class	HYD
	Hook no	-----
	Used when	Installing piston rod seal
	Remark	75mm / 3" (Is replacing 14213238)

Machines/Components

G930, G940, G946, G960, G970, G976, G990

	Part No:	49766
	Designation	Installation tool
	Class	HYD
	Hook no	-----
	Used when	Installing piston rod seal
	Remark	100mm / 4"

Machines/Components

G930, G940, G946, G960, G970, G976, G990

	Part No:	11668409
	Designation	Pliers
	Class	ENG
	Hook no	-----
	Used when	Removing roller tappet
	Remark	Included in 11668408

Machines/Components

D4E, D4H, D5D, D5E, D6D, D6E, D6H, D7D, D7E, D8H

	Part No:	14211207
	Designation	Installation tool
	Class	EXT
	Used when	Installing locking strip in window moulding

Machines/Components

A20C, A25C, A25C 4x4, A30C, A35C, A40, EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B

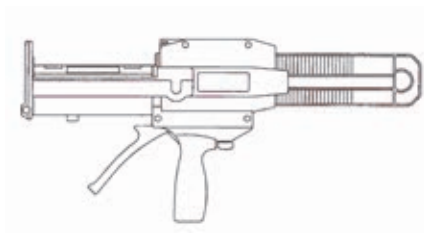
8. Pliers



Part No:	88800083
Designation	Extractor
Class	ENG
Hook no	9999811
Used when	Piston rings, removing

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D4E, D6E



Part No:	88830110
Designation	Dispensing gun
Class	ENG
Used when	Used when applying special 2 tube sealing
Remark	Replaces 9812651, which was driven by compressed air



Part No:	88830316
Designation	Dispensing gun
Class	ENG
Used when	Use to apply the anaerobic and silicone sealant evenly and correctly.
Remark	NOTE! For reference use the following sealant bead sizes: 1.5 mm bead for anaerobic sealant, 4.0 mm bead for silicone sealant .

8. Pliers



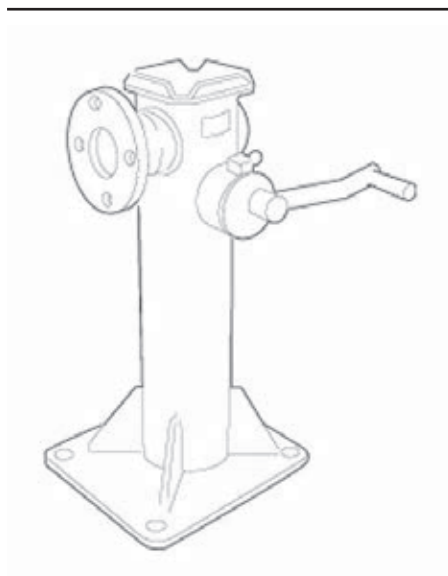
Part No:	9993902
Designation	Disassembly tool
Class	EXT
Hook no	-----
Used when	Disconnection of hydraulic couplings
Remark	Size 12

Machines/Components

MC110B, MC60B, MC70B, MC80B, MC90B



Part No:	9993903
Designation	Disassembly tool
Class	EXT
Hook no	-----
Used when	Disconnection of hydraulic couplings
Remark	Size 16



Part No:	9986485
Designation	Support
Class	EXT
Used when	Components, reconditioning

Machines/Components

2HL270, 2HL290, A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), APR70, APR90, APR90A, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB20, AWB25, AWB40B, D1.2A, D1.6A, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D2.0A, D2.0D, D2.2A, D2.2D, D3.1A, D3.4A, D3.4D, D4E, D4H, D5D, D5E, D6E, D6H, D7D, D7E, D8H, D9A, D9B, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC55C, EC60C, EW160C, EW60C, HT93, HT95, HTE1160, HTE840, MS-E3050, MS-E3060, MS-E3070, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

9. Fixtures



Part No:	11666039
Designation	Support
Class	EXT
Hook no	-----
Used when	Components, reconditioning
Remark	Motor-driven for voltage: 277 V / 60 Hz

Machines/Components

HTE400, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)



Part No:	11666040
Designation	Support
Class	EXT
Hook no	-----
Used when	Components, reconditioning
Remark	Motor-driven for voltage: 220 V / 50 Hz

Machines/Components

HTE110, HTE120, HTE125, HTE204 (22563), HTE205 (22564), HTE206, HTE210 (22565), HTE220 (22554), HTE305 (22566), HTL220, HTL305



Part No:	9993812
Designation	Fixture
Class	AXL
Used when	Components, reconditioning
Remark	(E-1298)

Machines/Components

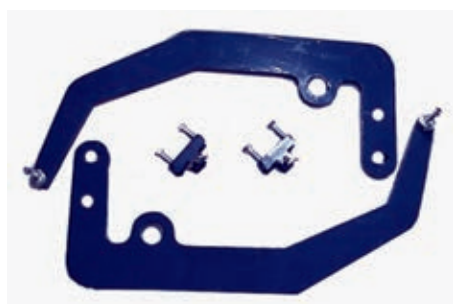
8421H-19, 8421H-21, 8421H-5, A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E , AH56F, AH56G, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), APR70, APR70A, APR90, APR90A, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB40B, FL-IL1, FL-IL2, HTE400, PT1560, PT1562, PT1563, PT1860, PT1862, PT1863, TLB1 4WD-A



Part No:	9993813
Designation	Fixture
Class	AXL
Used when	Components, reconditioning
Remark	Used together with 9993812 (E-1298)

Machines/Components

8421H-19, 8421H-21, 8421H-5, A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), AH56E , AH56F, AH56G, AH64D, AH64E, AH64F, AH64J, AH64K, AH64L, AHW64M, AHW64N, AHW64O, AHW71L, AHW71M, AHW71N, AHW71O, AHW71P, AHW71Q, AHW90 (11145757), AHW90 (11145758), AHW90 (11145761), AHW90 (11145762), APR70, APR70A, APR90, APR90A, ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039), ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), AWB40B, HTE400

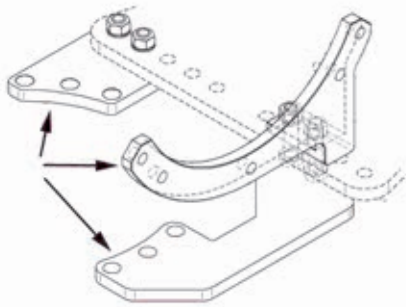


Part No:	11668022
Designation	Bracket
Class	TRA
Used when	Transmission, reconditioning

Machines/Components

FL-IL1, FL-IL2

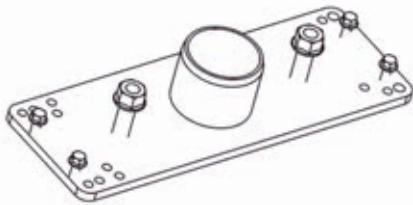
9. Fixtures



Part No:	88830039
Designation	Fixture
Class	AXL
Hook no	-----
Used when	Hub end, installing in stand
Remark	Used together with 9993812

Machines/Components

ARB/H35 (23960), ARB/H35 (23961), ARB/H35 (23962), ARB/H35 ATC (56039),
ARB/H40 (23957), ARB/H40 (23958), ARB/H40 (23959), ARB/H40 ATC (56038), P2390



Part No:	88800058
Designation	Fixture
Class	ENG
Hook no	9988587
Used when	Cylinder head, installing in work stand
Remark	Replaces 9990160

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431),
D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868),
D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B



Part No:	9993781
Designation	Fixture
Class	TRA
Hook no	9999818
Used when	Transmission in adjustable stand, installing

Machines/Components

HT205, HT210, HT220, HTE202, HTE204 (22547), HTE204 (22563), HTE205 (22521),
HTE205 (22564), HTE206, HTE210 (22553, 22535), HTE210 (22565), HTE220 (22522),
HTE220 (22554), HTL220



Part No:	9993782
Designation	Fixture
Class	TRA
Hook no	9988587
Used when	Transmission in adjustable stand, installing

Machines/Components

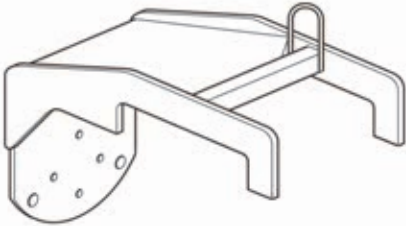
HTE300, HTE305 (22534, 22544), HTE305 (22566), HTL305

9. Fixtures

	Part No:	11668019
	Designation	Bracket
	Class	TRA
	Used when	Transmission, reconditioning
	Remark	(E-1299)

Machines/Components

PT1560, PT1562, PT1563, PT1860, PT1862, PT1863

	Part No:	9998169
	Designation	Fixture
	Class	TRA
	Used when	Transmission, installing in work stand
	Remark	Replaces 11668021

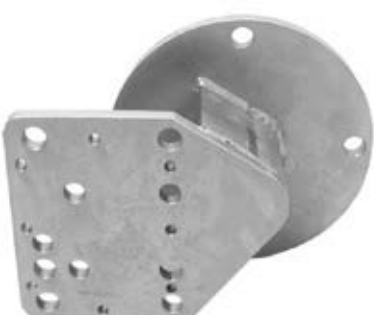
Machines/Components

PT1506, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

	Part No:	11668021
	Designation	Bracket
	Class	TRA
	Used when	Transmission, reconditioning
	Remark	(E-1400B)

Machines/Components

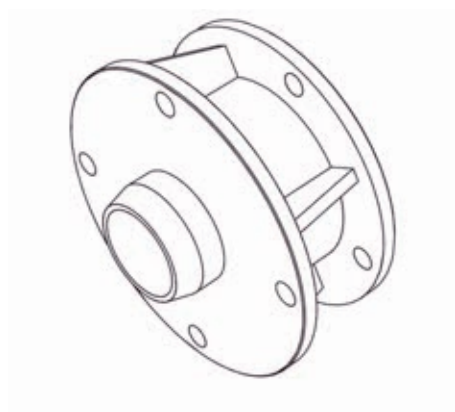
PT1560, PT1562, PT1563, PT1860, PT1862, PT1863

	Part No:	88830048
	Designation	Fixture
	Class	TRA
	Hook no	-----
	Used when	Transmission and power divider in work stand, attaching
	Remark	Replaces 9993706

Machines/Components

HST75, HT130, HT132, HT90, HT93, HT95, HTE110, HTE120, HTE125

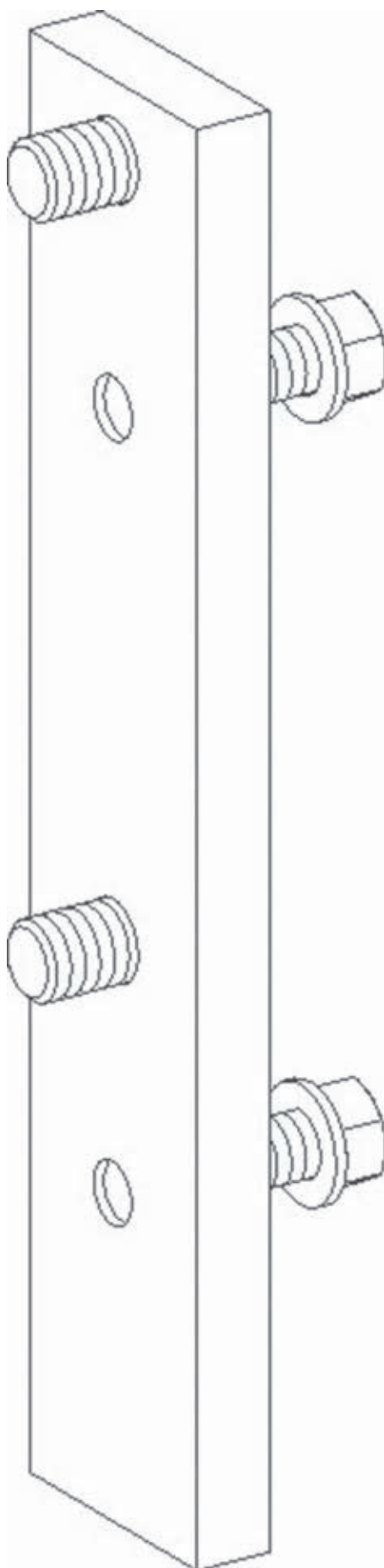
9. Fixtures



Part No:	88830074
Designation	Fixture
Class	EXT
Used when	Adapter used for ZF fixtures on work stand 9986485

Machines/Components

2HL270, 2HL290, EW160C, MS-E3050, MS-E3060, MS-E3070

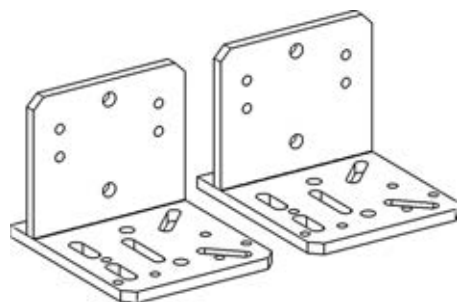


Part No:	88830093
Designation	Fixture
Class	TRA
Used when	Transmission, installing in workstand,
Remark	Used together with 88830074

Machines/Components

9. Fixtures

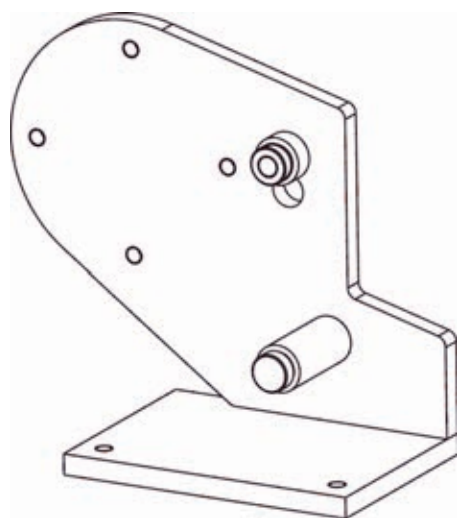
2HL270, 2HL290



Part No:	88830094
Designation	Fixture
Class	AXL
Used when	Axle, installing in workstand
Remark	Used together with 88830074

Machines/Components

EW160C, MS-E3050, MS-E3060, MS-E3070



Part No:	88830150
Designation	Fixture
Class	AXL
Used when	Axle, installing in adjustable stand

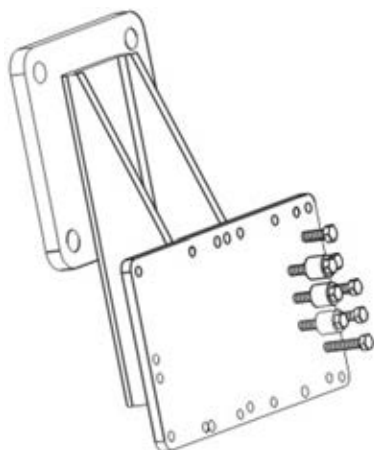


Part No:	9996878
Designation	Fixture
Class	ENG
Used when	Engine, installing in adjustable stand

Machines/Components

TD61, TD63, TD71, TD73

9. Fixtures



Part No:	88800050
Designation	Fixture
Class	ENG
Hook no	-----
Used when	Engine, installing in work stand
Remark	Replaces 9998671

Machines/Components

D4D, D4E, D4H, D5D, D5E, D6D, D6E, D6H, D7D, D7E, D8H



Part No:	9999738
Designation	Fixture
Class	ENG
Used when	Mounting of motor in adjustable stand

Machines/Components

TD103



Part No:	9999853
Designation	Fixture
Class	ENG
Used when	Engine in adjustable stand, installing

Machines/Components

TD122

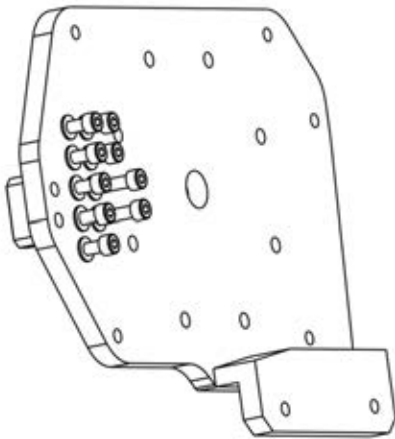
9. Fixtures



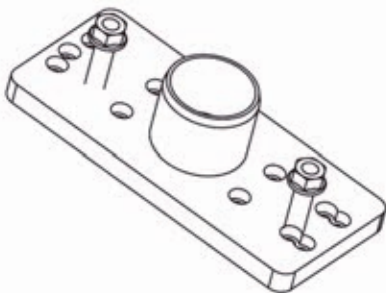
Part No:	9998648
Designation	Fixture
Class	ENG
Hook no	9999818
Used when	Engine in adjustable stand, installing

Machines/Components

D12C, D12D, EC330B LC, EC330C L, EC330C LD, EC360B LC, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL



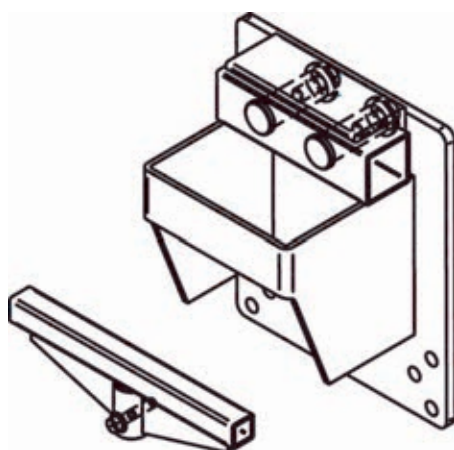
Part No:	88800117
Designation	Fixture
Class	ENG
Used when	Engine in adjustable stand, installing



Part No:	88830020
Designation	Fixture
Class	ENG
Hook no	-----
Used when	Engine in work stand, installing

Machines/Components

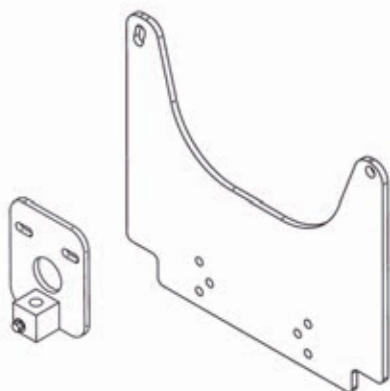
D1.2A, D1.6A, D2.0A, D2.0D, D2.2A, D2.2D, D3.1A, D3.4A, D3.4D, EC55C, EC60C, EW60C



Part No:	88830100
Designation	Fixture
Class	EXT
Used when	Used when removing and installing belly plates
Remark	Used together with 9999954

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)

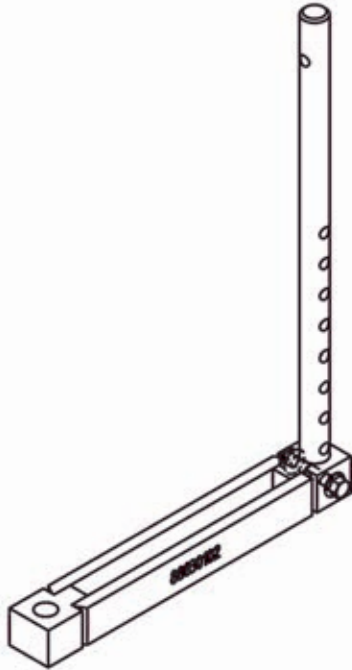


Part No:	88830101
Designation	Fixture
Class	EXT
Used when	Fixture, used when removing and installing differential
Remark	Used together with 9999954

Machines/Components

A25F (37214), A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)

9. Fixtures



Part No:	88830102
Designation	Fixture
Class	EXT
Used when	Fixture, to be used for various applications on 9999954
Remark	Used with 9999954

Machines/Components

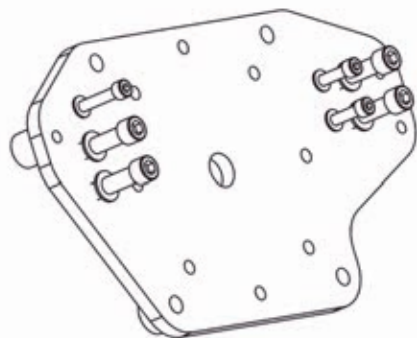
A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534)



Part No:	88800345
Designation	Fixture
Class	ENG
Used when	Components, installing in work stand
Remark	Replaces 88800003

Machines/Components

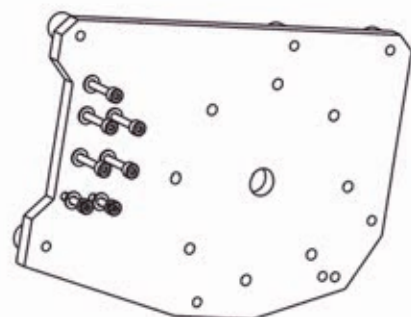
D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), D9A, D9B



Part No:	88800123
Designation	Fixture
Class	ENG
Hook no	-----
Used when	Engine, installing in work stand
Remark	Used together with 88800003

Machines/Components

D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877)



Part No:	88800146
Designation	Fixture
Class	ENG
Hook no	-----
Used when	Engine, installing in work stand

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D9A, D9B



Part No:	9992479
Designation	Retainer
Class	ENG
Hook no	9999811
Used when	Cylinder liner height, checking Adjusting depth of grooving tool

Machines/Components

D10B, D11F (15050661), D11H (15050660), D11H (15050662), D12C, D12D, D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870), D16E, D16F (15050684), D16H (15050683), D16H (15117877), TD102, TD103, TD122, TD164, TD40, TD45, TD61, TD63, TD71, TD73

9. Fixtures



Part No:	9993673
Designation	Fixture
Class	EXT
Hook no	9999846
Used when	Coolant pump, dismantling and assembling

Machines/Components

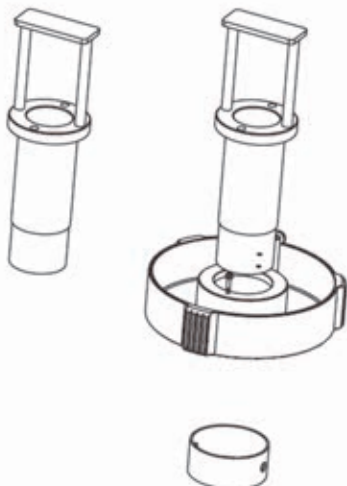
A20C, A25C, A25C 4x4, L120D, L90D, L90D OR, TD61, TD63, TD71, TD73



Part No:	9993756
Designation	Fixture
Class	EXT
Hook no	9999814
Used when	Coolant pump, dismantling and assembling

Machines/Components

TD103



Part No:	88800052
Designation	Fixture
Class	TRA
Hook no	9988593
Used when	Connection, installing
Remark	Replaces 9998479

Machines/Components

PT1560, PT1562, PT1563, PT1660, PT1661, PT1760, PT1761, PT1860, PT1862, PT1863, PT2116 (22416), PT2509 (22401), PT2509 (22671), PT2519 (22418), PT2519 (22419)

9. Fixtures

	Part No:	9993765
	Designation	Fixture
	Class	TRA
	Hook no	9988590
	Used when	Retarderstator, adjusting by drilling
	Remark	D=240mm

Machines/Components

PT1660, PT1661, PT1760, PT1761

	Part No:	9993766
	Designation	Fixture
	Class	TRA
	Hook no	9988590
	Used when	Retarderstator, adjusting by drilling
	Remark	D=250mm

Machines/Components

PT1660, PT1661, PT1760, PT1761

	Part No:	8932-00120
	Designation	Fixing tool
	Class	HYD
	Used when	Hub and spindle

Machines/Components

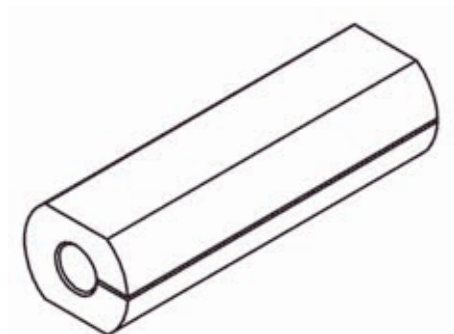
SE210 LC-3

9. Fixtures



Part No:	14527716
Designation	Fixing tool
Class	TRA
Hook no	-----
Used when	Swing motor, reconditioning

Machines/Components
ECR58, ECR88



Part No:	11666180
Designation	Retainer
Class	HYD
Used when	Valve slides, repairing

Machines/Components
BL60, BL61, BL61 PLUS, BL70, BL71, BL71 PLUS, EC27C, EC35C, ECR48C



Part No:	14527849
Designation	Retainer
Class	HYD
Hook no	-----
Used when	Hydraulic control valve spool, replacing

Machines/Components
ECR58, ECR88

	Part No:	8932-00720
	Designation	Retainer
	Class	HYD
	Hook no	-----
	Used when	Main control valve spool, service

Machines/Components

EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC700B HR, EC700B LC, EC700C L, EC700C LD

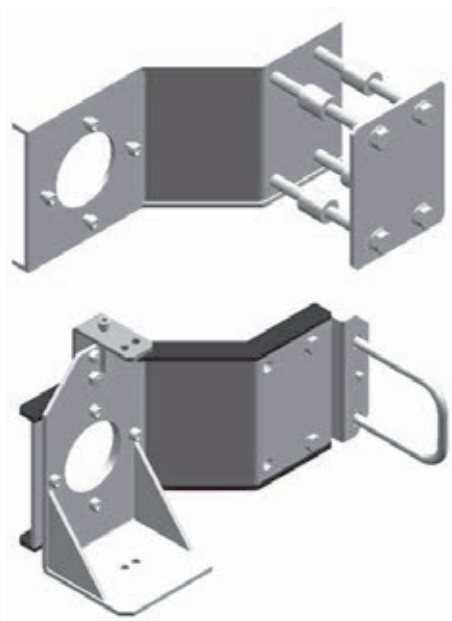
	Part No:	14515796
	Designation	Retainer
	Class	HYD
	Used when	Main control valve spool, service
	Remark	Diameter 34mm

	Part No:	14033319
	Designation	Fixture
	Class	HYD
	Used when	Retaining calibrating rings

Machines/Components

EC130, EC130C, EC150, EC150 LC, EC150C, EC200, EC230, EC230B, EC300, EC340, EC390, EC420, EC450, EC620, EC650, EW130, EW130C, EW150, EW150C, EW200, EW230, EW230B

9. Fixtures



Part No:	9993833
Designation	Fixture
Class	AXL
Used when	Axles, reconditioning

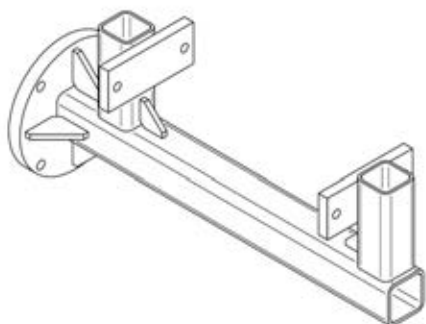
Machines/Components
AWB20, AWB25



Part No:	9993834
Designation	Fixture
Class	TRA
Hook no	-----
Used when	Dropbox, securing in adjustable stand

Machines/Components
FL1002, FL992, HTE1160, HTE840

9. Fixtures



Part No:	9993835
Designation	Fixture
Class	TRA
Hook no	-----
Used when	Transmission, installing in work stand
Remark	Used together with 9993834

Machines/Components

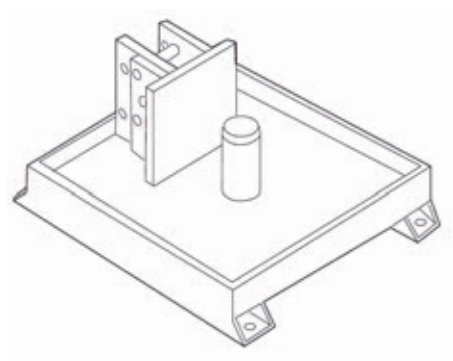
HTE1160, HTE840



Part No:	9998682
Designation	Fixing tool
Class	EXT
Hook no	9999817
Used when	Pump unit, replacing

Machines/Components

D5D, L50E

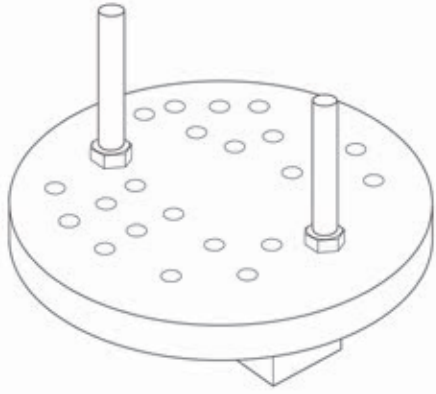


Part No:	11666170
Designation	Fixture
Class	HYD
Hook no	-----
Used when	Repair of hydraulic hammer

Machines/Components

HB200, HB300, HB440

9. Fixtures



Part No:	11666171
Designation	Fixture
Class	HYD
Hook no	-----
Used when	Repair of accumulator for hydraulic hammer

Machines/Components

HB200, HB300, HB440



Part No:	14527715
Designation	Fixture
Class	TRA
Hook no	-----
Used when	Travel gearbox gear, fixture

Machines/Components

ECR58, ECR88



Part No:	14527720
Designation	Fixture
Class	TRA
Hook no	-----
Used when	Swing motor brake cover, installing

Machines/Components

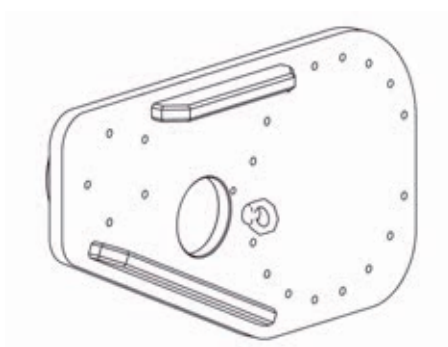
ECR58, ECR88

9. Fixtures



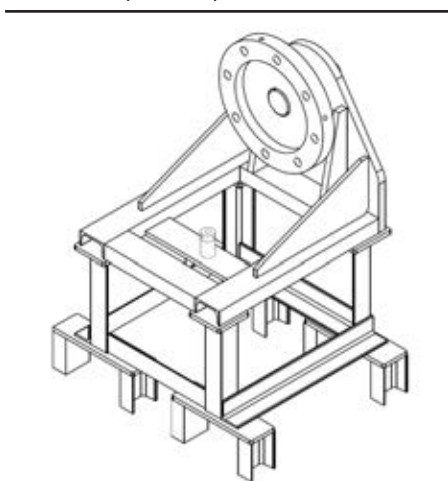
Part No:	14527847
Designation	Fixture
Class	HYD
Hook no	-----
Used when	Hydraulic pump, reconditioning

Machines/Components
ECR58



Part No:	9993904
Designation	Fixture
Class	TRA
Used when	Fixture used to support transmission housing when pressing out bearings, if not used housing will be damaged.

Machines/Components
HTE305 (22566)



Part No:	88830180
Designation	Fixture
Class	TRA
Used when	Motor mounting

Machines/Components
PT220RH

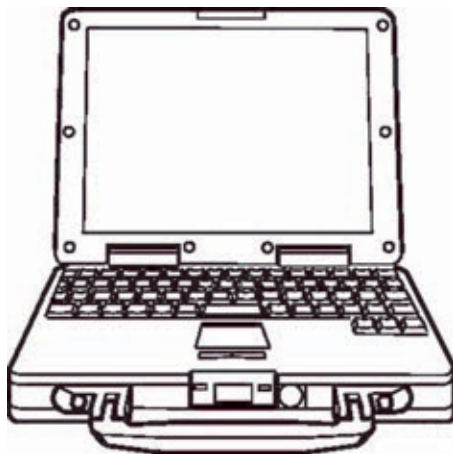
9. Fixtures



Part No:	88830214
Designation	Fixture
Class	EXT
Used when	Mounting jig for exhaust hose

Machines/Components

P7110, P7820C ABG (12762881), P8820C ABG (12763184)



Part No:	VCADS Pro
Designation	Service Tool
Class	BAS
Hook no	-----
Used when	Among others, used for Tests, Programming, Calibrating, and Parameter setting
Remark	For more information, contact vce.softwaresupport@volvo.com

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), D16E, D8H, EC140B LC, EC140B LCM, EC140C, EC140C L, EC140C LM, EC140D L, EC140D LM, EC160B LC, EC160B NLC, EC160C L, EC160C NL, EC160D L, EC160D NL, EC180B LC, EC180C L, EC180D L, EC200B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC210C L, EC210C LD, EC210C LR, EC210C N, EC210C NL, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235C LD, EC235C NL, EC235D NL, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC250D L, EC250D LR, EC250D NL, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC330B LC, EC330C L, EC330C LD, EC340D L, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC380D HR, EC380D L, EC380D NL, EC460B LC, EC460B LCD, EC460B LR, EC460C HR, EC460C L, EC460C LD, EC480D HR, EC480D L, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR145D L, ECR235C L, ECR235D L, ECR305C L, ECR88, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, EW60C, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60E, L60F, L70E, L70F, L90E, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4608, PL4611, PL4808D



Part No:	88890180
Designation	Interface
Class	BAS
Remark	Replace 88890020. Cover as spare part. Part nr: 88880070

Machines/Components

A25E, A25E 4x4, A30E, A35E, A35E FS, A40E, A40E FS, D8H, EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC210B F, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, ECR145D L, ECR235D L, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, MC110B, MC60B,

10. VCADS Pro

MC70B, MC80B, MC90B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D, SD115, SD135

 A photograph showing the components of the VCADS Pro cover. It includes a black plastic frame, a yellow plastic frame, and several black plastic connectors and mounting brackets.	Part No: 88880070 Designation Cover Class R Used when Optional, can be installed on previous interface 88890020 Remark Cover is included in 88890180
 A photograph of a black USB cable. The cable is coiled and has a standard USB-A connector on one end and a custom connector on the other.	Part No: 88880024 Designation Cable Class R Used when USB cable used together with Interface 8890180

Machines/Components
L150G, L180G, L220G



Part No:	88890027
Designation	Cable
Class	BAS
Hook no	-----
Used when	Connection cable for interface 888900180 to machine.

Machines/Components

D8H, EC140D L, EC140D LM, EC160D L, EC160D NL, EC180D L, EC210B F, EC220D L, EC220D LR, EC220D N, EC220D NL, EC235D NL, EC250D L, EC250D LR, EC250D NL, EC300D L, EC300D LD, EC300D LR, EC300D NL, EC300D WH, EC340D L, EC380D HR, EC380D L, EC380D NL, EC480D HR, EC480D L, ECR145D L, ECR235D L, EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L45F, L45G, L50F, L50G, L60F, L70F, L90F, MC110B, MC60B, MC70B, MC80B, MC90B, P7820C ABG (12762881), P8820C ABG (12763184), PL3005D, PL4808D



Part No:	88890034
Designation	Cable
Class	BAS
Hook no	9999824
Used when	For connection of interface 88890020/88890180 to machine
Remark	For MC machines



Part No:	88890040
Designation	Oscilloscope
Class	EXT
Hook no	-----
Used when	Measuring together with VCADS Pro

Machines/Components

A25E, A25E 4x4, A25F (37214), A30E, A30F (37432), A35E, A35E FS, A35F (37142), A35F FS (37141), A40E, A40E FS, A40F (37535), A40F FS (37534), EC140C, EC140C L, EC140C LM, EC160C L, EC160C NL, EC180C L, EC200B, EC210C L, EC210C LD, EC210C LR,

10. VCADS Pro

EC210C N, EC210C NL, EC235C LD, EC235C NL, EC240C L, EC240C LD, EC240C LR, EC240C NL, EC290C L, EC290C LD, EC290C LR, EC290C NL, EC330C L, EC330C LD, EC360C HR, EC360C L, EC360C LD, EC360C NL, EC460C HR, EC460C L, EC460C LD, EC700B HR, EC700B LC, EC700C L, EC700C LD, ECR145C L, ECR235C L, ECR305C L, EW140B, EW140C, EW140D, EW160B, EW160C, EW160D, EW180B, EW180C, EW180D, EW210C, EW210D, FB2800C, FBR2800C, FC2121C, FC2421C, FC2924C, FC3329C, G930, G930B, G940, G940B, G946, G946B, G960, G960B, G970, G976, G990, L110E, L110F, L120E, L120F, L150F, L150G, L180E, L180F, L180F HL, L180G, L220E, L220F, L220G, L350F, L45G, L50G, L60E, L60F, L70E, L70F, L90E, L90F, P7820C ABG (12762881), P8820C ABG (12763184), PL4608, PL4611, SD115, SD135



Part No:	9993832
Designation	Adapter
Class	R
Used when	Adapter for VCADS between interface and Contronic socket

Machines/Components

EC140B LC, EC140B LCM, EC160B LC, EC160B NLC, EC180B LC, EC200B, EC210B, EC210B CN, EC210B F, EC210B FX, EC210B LC, EC210B LR, EC210B NC, EC210B NLC, EC240B CN, EC240B F, EC240B FX, EC240B LC, EC240B LR, EC240B NLC, EC290B F, EC290B FX, EC290B LC, EC290B LCD, EC290B LR, EC290B NLC, EC330B LC, EC360B LC, EC360B LCD, EC360B LR, EC360B NLC, EC460B LC, EC460B LCD, EC460B LR, EC700B HR, EC700B LC, EW145B, L60F, L70F, L90F



Part No:	9993886
Designation	Adapter
Class	R
Hook no	9999811
Used when	Adapter to enable reading Matris with 9993892 interface

Machines/Components

G930, L110F, L120F, L60F, L70F, L90F



Part No:	9812330
Designation	Cable
Class	R
Hook no	-----
Used when	Extension cable
Remark	8 m

Machines/Components

EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D

10. VCADS Pro



Part No:	9812331
Designation	Cable
Class	R
Hook no	-----
Used when	Extension cable
Remark	20 m

Machines/Components

EW140C, EW140D, EW160C, EW160D, EW180C, EW180D, EW210C, EW210D



Part No:	43878552
Designation	Measuring equipment
Class	EXT
Used when	Used for trouble shooting.

10. VCADS Pro

11. Spare parts



Part No:	88880017
Designation	Reaction fluid
Class	R
Used when	Refill for special tool 9808038



Part No:	88880018
Designation	Cleaning agent
Class	R
Used when	Refill for special tool 9808038



Part No:	9812453
Designation	Nipple
Class	R
Hook no	-----
Used when	Nipple for vacuum pump

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, R134A



Part No:	9812446
Designation	Nipple
Class	R
Hook no	-----
Used when	Nipple for refrigerant container

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), EW140D, EW160D, EW180D, EW210D, L110F, L120F, L150F, L150G, L180F, L180F HL, L180G, L220F, L220G, L350F, L60F, L70F, L90F, R134A

11. Spare parts



Part No:	9812447
Designation	Nipple
Class	R
Hook no	-----
Used when	Filling of AC-oil
Remark	Included in 9812512

Machines/Components
R134A



Part No:	88830240
Designation	Connection
Class	R
Used when	Red connection for refrigerant station
Remark	HP-coupling, replacec 9812432

Machines/Components
R134A



Part No:	88830238
Designation	Connection
Class	R
Used when	Blue connection for refrigerant station
Remark	LP-coupling, replaces 9512210

Machines/Components
R134A

11. Spare parts

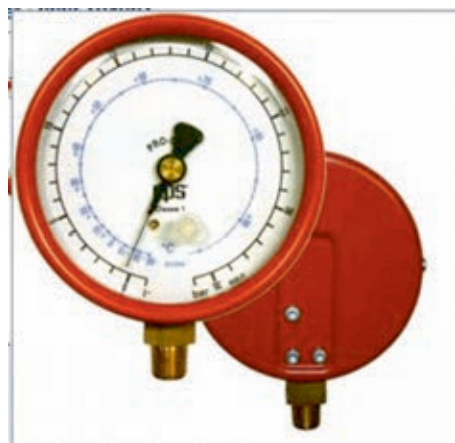
	Part No:	88830253
	Designation	Hose
	Class	EXT
	Used when	Hose for refrigerant unit
	Remark	Blue hose 5 metre, spare part to 88830250
Machines/Components R134A		
	Part No:	88830254
	Designation	Hose
	Class	EXT
	Used when	Hose for refrigerant unit
	Remark	Red hose 5 metre, spare part for 88830250
Machines/Components R134A		
	Part No:	88830255
	Designation	Hose
	Class	EXT
	Used when	Hose for refrigerant unit
	Remark	Yellow hose 1.8 metre, spare part for 88830250
Machines/Components R134A		

11. Spare parts



Part No:	88830257
Designation	Pressure gauge
Class	EXT
Used when	Vacuum pressure for refrigerant unit.
Remark	Digital, 0-50 degrees C, spare part to 88830250

Machines/Components
R134A



Part No:	88830258
Designation	Pressure gauge
Class	EXT
Used when	Messuring HP on refrigerant unit.
Remark	Red, spare part for 88830250

Machines/Components
R134A



Part No:	88830259
Designation	Pressure gauge
Class	EXT
Used when	Messuring HP on refrigerant unit.
Remark	Blue, spare part for 88830250

Machines/Components
R134A

11. Spare parts

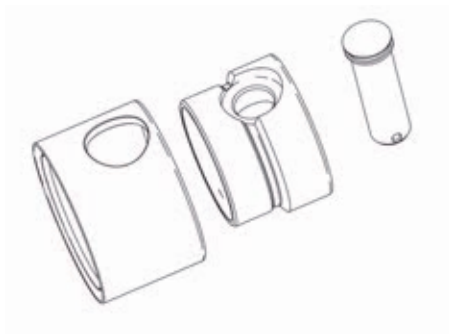


Part No:	88830261
Designation	Adapter
Class	R
Used when	Adapter to refrigerant station
Remark	Use together with refilling tool 88830260

Machines/Components R134A

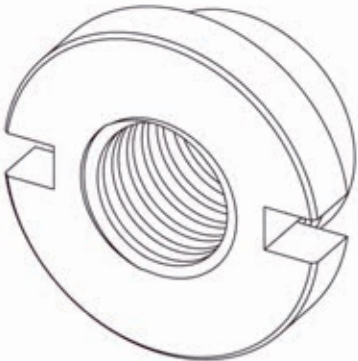
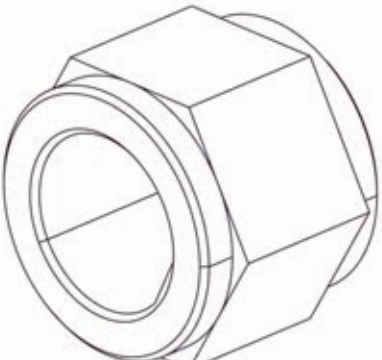


Part No:	11666145
Designation	Repair kit
Class	R
Used when	---
Remark	Sparepart for 9993721



Part No:	88830144
Designation	Puller head
Class	R
Used when	Spare part for 88830132

11. Spare parts

	Part No: 88830168 Designation Puller head Class R Used when Threaded puller head, sparepart for jack 11666031.
	Part No: 11666122 Designation Nipple Class R Used when --- Remark Sparepart for 11666008
	Part No: 88830130 Designation Nipple Class R Used when Adapter between the air nipple on the tank and minimess measure nipple. Used in E-2519. Remark Thread M16x1,5 on both sides
	Part No: 11666134 Designation Pressure gauge Class R Hook no ----- Used when Spare part for 11666132 and 11666135

11. Spare parts

	Part No: Designation Class Hook no Used when	11666138 Valve R ----- Spare part for 11666135
	Part No: Designation Class Used when Remark	88830184 Interface R USB interface for TWIN 2 and 3 Twin Gina 3 software is available through the Software Support and can be provided on demand. vce.softwaresupport@volvo.com
	Part No: Designation Class Used when	88830185 Cable R Connecting USB interface TWIN 2 and 3 to machine
	Part No: Designation Class Used when	88830186 Cable R USB cable for interface to TWIN 2 and 3
	Part No: Designation Class Used when	11666125 Adapter R Adapter for connecting PC to Twin Automatic Greasing

11. Spare parts



Part No:	11042173
Designation	Cable, spare part
Class	R
Used when	Cable for Matris 9993892

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), PT125



Part No:	11042174
Designation	Cable, spare part
Class	R
Used when	Cable for Matris 9993892



Part No:	9993758
Designation	Quick coupling
Class	EXT
Hook no	9999811
Used when	Hydraulic pressures, measuring
Remark	R1/4"

Machines/Components

A25D, A25D 4x4, A25E, A25E 4x4, A25F (37214), A30D, A30E, A30F (37432), A35D, A35E, A35E FS, A35F (37142), A35F FS (37141), A40D, A40E, A40E FS, A40F (37535), A40F FS (37534), AWB20, AWB25, AWB30, AWB31, AWB40, AWB40B, AWB41, AWB50, L330C, L330C LL, L60E, L70E, T450D



Part No:	11705446
Designation	Hose
Class	R
Used when	Spare part for hydraulic pump 11666013 and 88830175

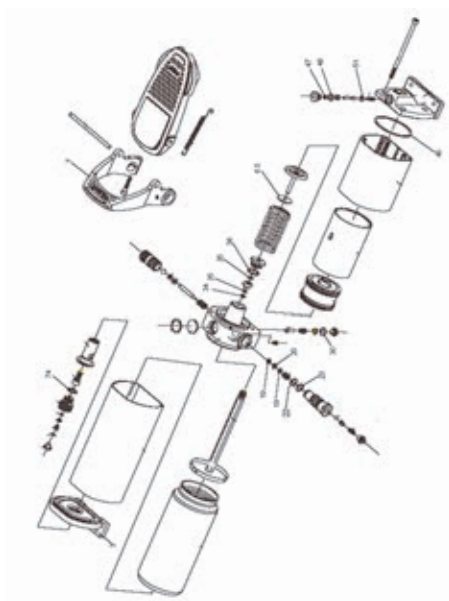
11. Spare parts



Part No:	11705447
Designation	Nipple
Class	R
Hook no	-----
Used when	Quick-coupling, female
Remark	Fits 11666013, 11666041 and 88830175



Part No:	11666901
Designation	Repair kit
Class	R
Used when	Spare parts for pump 11666041, 88830175 and 14214076

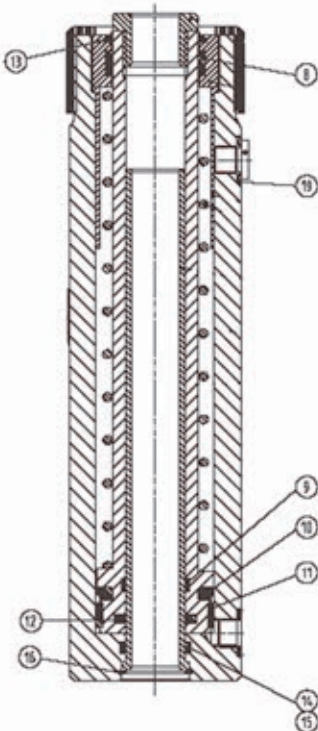


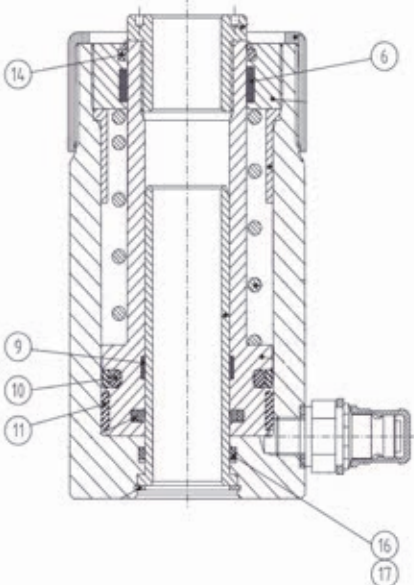
Part No:	9809727
Designation	Repair kit
Class	R
Used when	Spare parts for 11666013 PP 70A-1000
Remark	The kit consists of positioned parts



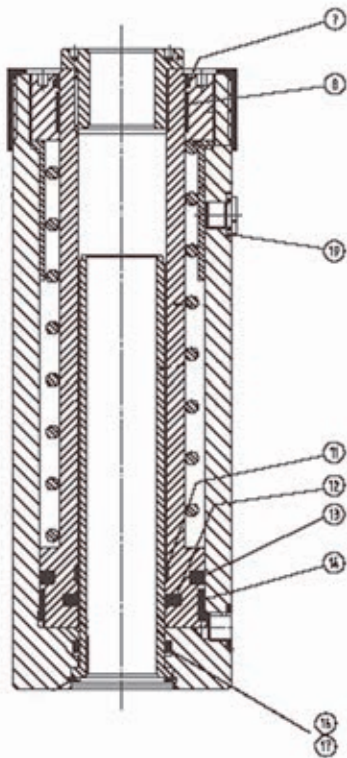
Part No:	9809730
Designation	Gasket set
Class	R
Used when	Gaskets for 11666043

11. Spare parts

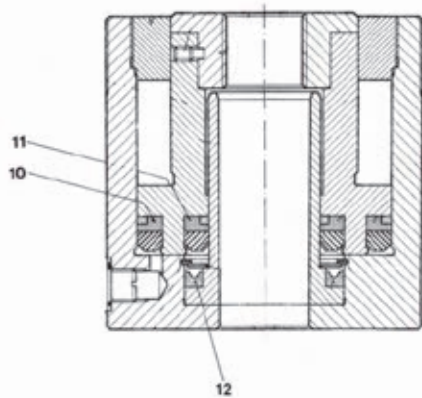
	Part No:	11666903
	Designation	Gasket set
	Class	R
	Used when	Gaskets for 11666044, 11666054
Remark		The kit consists of positioned parts

	Part No:	9999298
	Designation	Gasket set
	Class	R
	Used when	Gaskets for 88830160
Remark		The kit consists of positioned parts

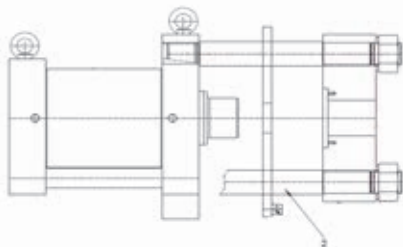
11. Spare parts



Part No:	11666904
Designation	Gasket set
Class	R
Used when	Gaskets for 11666045, 11666055
Remark	The kit consists of positioned parts

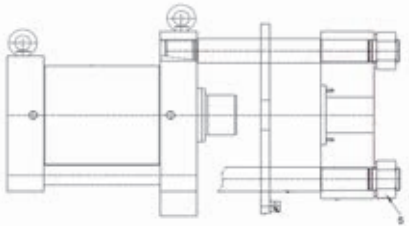
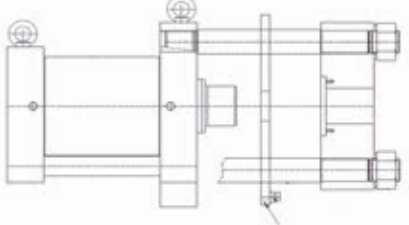
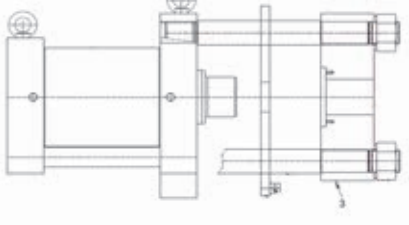


Part No:	11706852
Designation	Gasket set
Class	R
Hook no	-----
Used when	Gaskets for 11666031
Remark	The kit consists of positioned parts



Part No:	88830146
Designation	Tie rod
Class	R
Used when	Spare part for 150 ton press 14548449
Remark	Tie rod pos. 2

11. Spare parts

	Part No: Designation Class Used when Remark	88830148 Nut R Spare part for 150 ton press 14548449 Nut pos. 5
	Part No: Designation Class Used when Remark	88830147 Guide plate R Spare parts for 150 ton press 14548449 Plate pos. 6
	Part No: Designation Class Used when Remark	88830149 Yoke R Spare part for special tool 14548449 Yoke pos 3
	Part No: Designation Class Used when Remark	9999693 Diagram sheet R For 9988539 at compression test 100 pcs.
	Part No: Designation Class Used when	11666102 Gasket set R Repair of vacuum pump 14360000

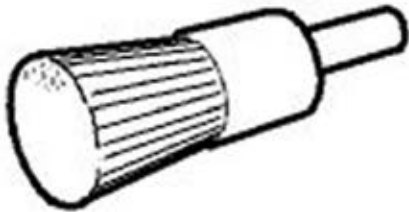
11. Spare parts



Part No:	9990159
Designation	Set
Class	R
Hook no	-----
Used when	Electrical measuring
Remark	Included in multimeter 9812519



Part No:	14210992
Designation	Reflecting sticker
Class	R
Hook no	-----
Used when	Spare part for 12976108
Remark	15 x 600 mm (0.59 x 23.62 in)



Part No:	9808570
Designation	Brush
Class	R
Hook no	-----
Used when	Spare part for 9998599
Remark	Included in 9998599

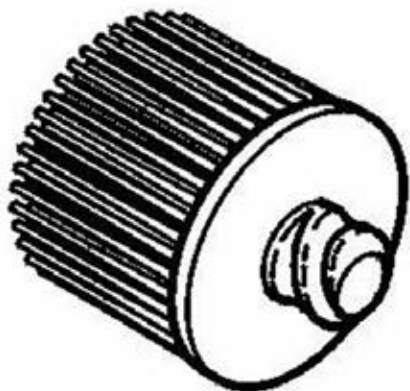


Part No:	9998580
Designation	Socket
Class	R
Hook no	-----
Used when	Spare part for 9998599

Machines/Components

D11F (15050661), D11H (15050660), D11H (15050662), D13F (15049431), D13F (15049437), D13H, D13H (15049433), D13H (15049439), D13H (15117868), D13H (15117870)

11. Spare parts



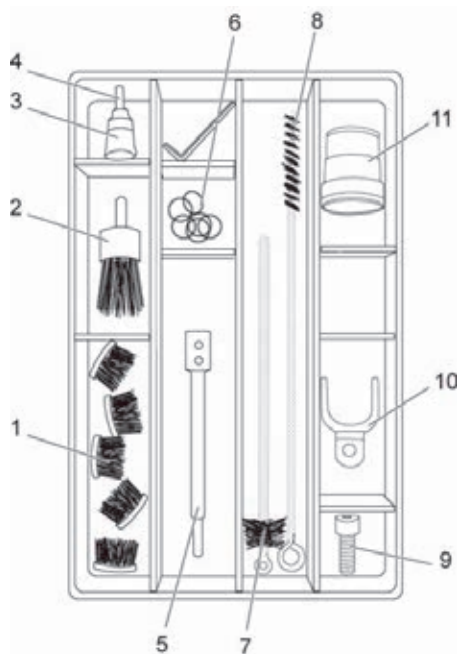
Part No:	9808614
Designation	Brush
Class	R
Hook no	-----
Used when	Spare part for 9998599
Remark	Included in 9808634



Part No:	9808617
Designation	Brush
Class	R
Hook no	-----
Used when	Spare part for 9998599
Remark	Included in 9808634

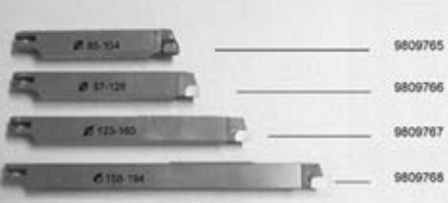
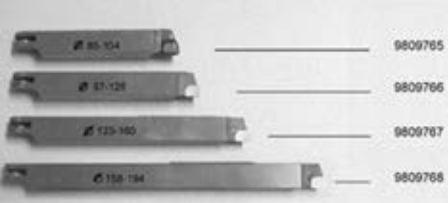
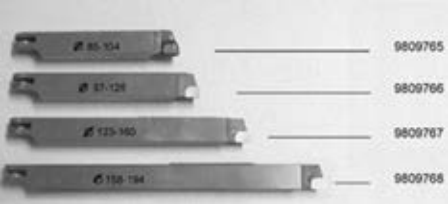
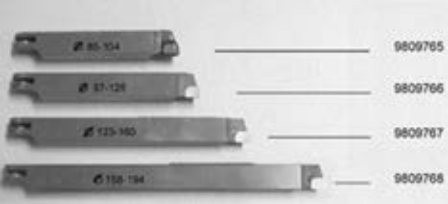


Part No:	9808618
Designation	Brush
Class	R
Hook no	-----
Used when	Spare part for 9998599
Remark	Included in 9808634



Part No:	9808634
Designation	Brush set
Class	R
Hook no	-----
Used when	Spare part for 9998599
Remark	Consists of items 1+3+4+5+7+8

11. Spare parts

	Part No: 9809765 Designation Cutter Class R Hook no ----- Used when Spare part for 9812524 Remark 85–104 mm (3.346–4.094 in)
	Part No: 9809766 Designation Cutter Class R Hook no ----- Used when Spare part for 9812524 Remark 97–126 mm (3.819–4.961 in)
	Part No: 9809767 Designation Cutter Class R Hook no ----- Used when Spare part for 9812524 Remark 123–160 mm (4.843–6.299 in)
	Part No: 9809768 Designation Cutter Class R Hook no ----- Used when Spare part for 9812524 Remark 158–194 mm (6.220–7.638 in)
	Part No: 88830063 Designation Blade Class R Used when Spare blade for scraper included in 88830060 Remark Kit with 10 blades
	Part No: 88880048 Designation Wire Class R Used when Spare wire for 88830060 Remark 1500m

11. Spare parts

	Part No: 88880010 Designation Pin Class R Used when Spare part for 88800102 and 88800196
	Part No: 88880054 Designation Pin Class R Used when Spare part for 88800283
	Part No: 88880049 Designation Kit Class R Used when Spare part for 9990008
	Part No: 88880050 Designation Kit Class R Used when Spare part for 9990008

11. Spare parts



Part No:	88880051
Designation	Kit
Class	R
Used when	Spare part for 9990008



Part No:	9808647
Designation	Disassembly tool
Class	R
Used when	Spare part for 9808646

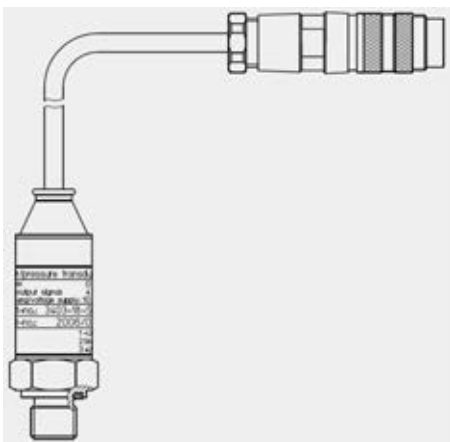
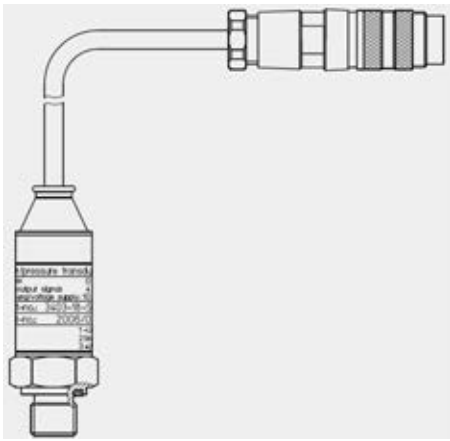
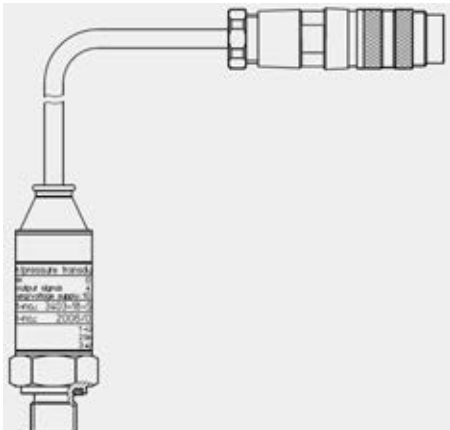


Part No:	9812477
Designation	Disassembly tool
Class	R
Used when	Spare part for 9812483



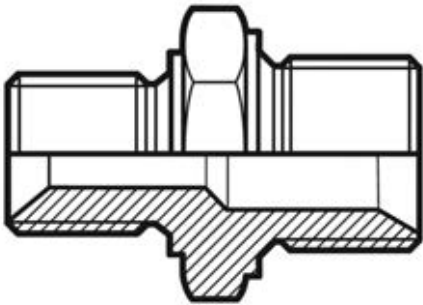
Part No:	9812478
Designation	Disassembly tool
Class	R
Used when	Spare part for 9812482

11. Spare parts

	<table> <tr> <td>Part No:</td><td>9812479</td></tr> <tr> <td>Designation</td><td>Disassembly tool</td></tr> <tr> <td>Class</td><td>R</td></tr> <tr> <td>Used when</td><td>Spare part for 9812481</td></tr> </table>	Part No:	9812479	Designation	Disassembly tool	Class	R	Used when	Spare part for 9812481		
Part No:	9812479										
Designation	Disassembly tool										
Class	R										
Used when	Spare part for 9812481										
	<table> <tr> <td>Part No:</td><td>88830232</td></tr> <tr> <td>Designation</td><td>Measuring equipment</td></tr> <tr> <td>Class</td><td>R</td></tr> <tr> <td>Used when</td><td>Special tool for pressure measuring</td></tr> <tr> <td>Remark</td><td>-1 to 6 bar, use together with 88830213</td></tr> </table>	Part No:	88830232	Designation	Measuring equipment	Class	R	Used when	Special tool for pressure measuring	Remark	-1 to 6 bar, use together with 88830213
Part No:	88830232										
Designation	Measuring equipment										
Class	R										
Used when	Special tool for pressure measuring										
Remark	-1 to 6 bar, use together with 88830213										
	<table> <tr> <td>Part No:</td><td>88830233</td></tr> <tr> <td>Designation</td><td>Measuring equipment</td></tr> <tr> <td>Class</td><td>R</td></tr> <tr> <td>Used when</td><td>Special tool for pressure measuring</td></tr> <tr> <td>Remark</td><td>0-60 bar, use together with 88830213</td></tr> </table>	Part No:	88830233	Designation	Measuring equipment	Class	R	Used when	Special tool for pressure measuring	Remark	0-60 bar, use together with 88830213
Part No:	88830233										
Designation	Measuring equipment										
Class	R										
Used when	Special tool for pressure measuring										
Remark	0-60 bar, use together with 88830213										
	<table> <tr> <td>Part No:</td><td>88830234</td></tr> <tr> <td>Designation</td><td>Measuring equipment</td></tr> <tr> <td>Class</td><td>R</td></tr> <tr> <td>Used when</td><td>Special tool for pressure measuring</td></tr> <tr> <td>Remark</td><td>0-600 bar, use together with 88830213</td></tr> </table>	Part No:	88830234	Designation	Measuring equipment	Class	R	Used when	Special tool for pressure measuring	Remark	0-600 bar, use together with 88830213
Part No:	88830234										
Designation	Measuring equipment										
Class	R										
Used when	Special tool for pressure measuring										
Remark	0-600 bar, use together with 88830213										

11. Spare parts

	Part No:	9812484
	Designation	Disassembly tool
	Class	R
	Used when	Spare part for 9812480

	Part No:	88830235
	Designation	Nipple
	Class	R
	Used when	Nippel to use with seel adapter 88800284
	Remark	1/8"-1/4". Use together with steel adapter 88800284

Machines/Components

A25F (37214), A30F (37432), A35F (37142), A35F FS (37141), A40F (37535), A40F FS (37534), L150G, L180G, L220G

11. Spare parts