



4.236

**STANDARD
OPTION
SCHEME**

GENERAL INFORMATION

THIS BOOK IS PRINTED IN TWO SECTIONS. THE FIRST SECTION CONTAINS A PICTORIAL AND SECTIONAL INDEX PLUS A NUMERICAL INDEX OF ALL PART NUMBERS INCLUDED IN THIS BOOK. THE PAGES IN THIS SECTION ARE NUMBERED WITH ROMAN NUMERALS.

THE SECOND SECTION INCLUDES A LIST OF PART NUMBERS, REFERENCED TO ITEM NUMBERS ON THE ILLUSTRATED PAGE DIRECTLY OPPOSITE. PAGES IN THIS SECTION ARE NUMBERED WITH ARABIC NUMERALS.

THE PARTS BOOK NUMBER AND DATE APPEAR IN THE LOWER RIGHT HAND CORNER OF THE PAGE. ALL PAGES ALSO CARRY THE ENGINE TYPE TO ASSIST IN IDENTIFYING THE ENGINE TO WHICH THE PARTS BOOK APPLIES.

PART NUMBERS OFFSET IN THE DESCRIPTIVE LIST ARE PART OF THE PRECEDING ASSEMBLY OR SUB-ASSEMBLY.

THE QUANTITY SHOWN IN THE "NUMBER REQUIRED" COLUMN IS THE NUMBER OF PARTS USED ON THE ENGINE, EXCEPT WHERE PARTS ARE OFFSET IN THE DESCRIPTIVE LIST. IN THIS CASE THE QUANTITY SHOWN IS THE NUMBER REQUIRED FOR THE PRECEDING ASSEMBLY OR SUB-ASSEMBLY.

FOR CERTAIN PARTS, SUCH AS KITS, SHIMS ETC., AN "X" WILL BE SHOWN IN THE "NUMBER REQUIRED" COLUMN. THIS "X" INDICATES THAT THE QUANTITY IS "AS REQUIRED".

WHEN CHANGES TO THE ENGINE OCCUR, THE INFORMATION WILL BE ISSUED BY A PARTS ALTERATION NOTICE. INFORMATION FROM THESE SHOULD BE ENTERED IN THE APPROPRIATE PAGES AS SOON AS THEY ARE RECEIVED.

FROM TIME TO TIME NEW OR REVISED PAGES FOR THIS BOOK WILL BE ISSUED. THESE REVISED PAGES WILL CARRY THE SAME PAGE NUMBERS AS THOSE THEY REPLACE BUT WILL HAVE A NEW DATE. NEW PAGES WILL CARRY AN EXISTING PAGE NUMBER WITH A LETTER SUFFIX. THESE PAGES SHOULD BE INSERTED IN THE PARTS BOOK FOLLOWING THE EXISTING PAGE.

IT IS IMPERATIVE THAT NEW AND REVISED PARTS BOOK PAGES BE INSERTED INTO THEIR RESPECTIVE PARTS BOOK AS SOON AS THEY ARE RECEIVED. FAILURE TO DO SO WILL LEAD TO CONFUSION AND DEFEAT THE PURPOSE OF THE BOOK.

GENERALITES

CE CATALOGUE EST IMPRIME EN DEUX PARTIES. LA PREMIERE PARTIE COMPORTE UN INDEX VISUEL, UNE TABLE DES MATIERES ET UN INDEX DE TOUS LES NUMEROS DE PIECE INSCRITS DANS CE CATALOGUE. LES PAGES DE CETTE PREMIERE PARTIE SONT NUMEROTEES EN CHIFFRES ROMAINS.

LA SECONDE PARTIE COMPORTE LES DESSINS D'ILLUSTRATION ET SUR LA PAGE VOISINE, LA LISTE DE PIECES SE RAPPORTANT A CES DESSINS. LES PAGES DE CETTE PARTIE SONT NUMEROTEES EN CHIFFRES ARABES.

LE NUMERO DU CATALOGUE, LE NUMERO D'EMISSION ET LA DATE APPARAISSENT DANS LE COIN INFERIEUR DROIT DES PAGES. CHAQUE PAGE PORTE EGALEMENT LE TYPE DU MOTEUR.

LES PIECES DONT LES DESIGNATIONS SONT INSCRITES EN RETRAIT FONT PARTIE DE L'ENSEMBLE OU SOUS-ENSEMBLE LES PRECEDANT.

LE NOMBRE INDIQUE EN COLONNE "QUANTITE" EST CELUI DES PIECES UTILISEES SUR UN MOTEUR, SAUF POUR LES PIECES DONT LES DESIGNATIONS SONT INSCRITES EN RETRAIT. DANS CE CAS, LA QUANTITE INDIQUEE EST CELLE DES PIECES COMPRISES DANS L'ENSEMBLE LES PRECEDANT.

POUR CERTAINES PIECES, TELLES QUE JEUX, CALES, ETC. DONT LA QUANTITE PEUT VARIER, LA QUANTITE EST INDIQUEE PAR UN "X".

PERIODIQUEMENT DE NOUVELLES PAGES DE CE CATALOGUE SERONT EDETEES. LES PAGES REVISEES PORTERONT LE MEME NUMERO DE PAGE QUE CELLES QU'ELLES REMPLACENT SEULS LE NUMERO D'EMISSION ET LA DATE SERONT MODIFIES. LES PAGES SUPPLEMENTAIRES PORTANT LE NUMERO D'UNE PAGE EXISTANTE SUIVI D'UN SUFFIXE ALPHABETIQUE SERONT INSEREES A LA SUITE DE CETTE PAGE.

IL EST IMPERATIF D'INSERER CES PAGES RECTIFICATIVES OU ADDITIVES DES RECEPTION. NE PAS LE FAIRE, CONDUIT A LA CONFUSION ET ENLEVE TOUT L'INTERET DE CE CATALOGUE.

Perkins **engines**

GENERAL PARTS BULLETIN #418

CHANGE NOTICE FOR PARTS BOOK #3251 - 4.236 S.O.S. ENGINE

1. Cylinder Block Section - Page 2 - All base unit codes

<u>Ref.No.</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
7	32166314	32181434	Setscrew, main bearing cap to cylinder block	10

Note: Remainder of parts comprising 92883 remain unaffected.
 Commencing Engine No. - Not required.
 Interchangeability - 32166314 use 32181434.

2. Cylinder Head Section - Page 14 - All base unit codes

<u>Ref.No.</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
N.I.	-	0826278	Stud, head to rear end cover ...	3
N.I.	-	0576002	Nut, cover retaining	3
N.I.	-	0920053	Washer, spring	3

Cylinder Head Rear End Cover Section - Page 49 - Code G00

<u>Ref.No.</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
3	0746254	-	Setscrew, rear end cover to cylinder head	3
4	0920053	-	Washer, spring	3

Commencing Engine No. - Not required.
 Interchangeability - 0746254 (Qty.3) use 0826278 (Qty.3) and
 0576002 (Qty.3).

3. Water Pump Section - Pages 109, 117, 122 - Codes W04, W05, W06, W15, W16, W20, W21

<u>Notes</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
(A)	41312911	41312554	Pump	1
	37483164	-	Hub	1
	2211031	-	Nut	1
	-	31146941	Pulley	1
	-	0576007	Nut	1
	-	0920058	Washer	1
	-	0096439	Setscrew	1
	-	0096440	Setscrew	1
	-	0920054	Washer	2
	-	0920464	Washer	1
	31146004	-	Pulley	1
	36867137	36867157	Joint	1
	0096439	-	Setscrew	2
	0920054	-	Washer	2
	0920465	-	Washer	1
	0746252	-	Setscrew	4
	0920053	-	Washer	4

3. Continued

Note: (A) Remainder of parts comprising 41312554 are as 41312911.

Commencing Engine No. - 236US17938.

Interchangeability - 41312911 use 41312554/36867157

Remainder of parts not interchangeable.

4. Water Pump Section - Pages 109, 117, 122 - Codes W06, W14, W15, W16, W20, W21 (for use with base unit codes VE, VF, VG and VH)

Notes	Delete	Add	Description	Qty.
(A)	41312911	41312566	Water Pump	1
	37483164	-	Hub	1
	-	31147581	Pulley	1
	2211031	0576007	Nut	1
	-	0920058	Washer	1
	-	0096439	Setscrew	2
	-	0096440	Setscrew	1
	-	0920054	Washer	3
	-	0920464	Washer	1
	31147003	-	Pulley	1
	0096439	-	Setscrew	3
	0920054	-	Washer	3
	0920465	-	Washer	1
	0746252	-	Setscrew	4
	0920053	-	Washer	4
	36867137	36867157	Joint	1

Note: (A) Remainder of parts comprising 41312566 are as 41312911.

Commencing Engine No. - 236US18127.

Interchangeability - 41312911 use 41312566/36867157.

31147003/0096439(3)/0920054(3)/0920465/

0746252(4)/0920053(4)/36867137 used

only with 41312911.

36867157 used only with 41312566.

5. Water Pump Section - Pages 109, 117, 122 - Codes W11, W12, W13, W17, W18, W19, W22, W23

Notes	Delete	Add	Description	Qty.
(A)	41312908	41312552	Pump	1
	27483164	-	Hub	1
	2211031	-	Nut	1
	-	31146941	Pulley	1
	-	0576007	Nut	1
	-	0920058	Washer	1
	31146004	-	Pulley	1
	36867138	36867156	Joint	1

Note: (A) Remainder of parts comprising 41312552 are as 41312908.

5. Continued

Commencing Engine No. - 236US16439

Interchangeability - 41312908 use 41312552/36867156.

31146004/36867138 used only with 41312908.

36867156 used only with 41312552.

6. Water Pump, Alternator, Dynamo Section - Page 121 -

Codes W06 & W13

<u>Ref.No.</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
21	0999412	41113411	Pulley (Assembly)	1
23	0040601	0040054	Bearing	1
24	0190127	33421416	Collar	1

Commencing Engine No. - 236US16176

Interchangeability - 0999412 use 41113411/33421416.

0040601 use 0040054/33421416.

0190127 use only with 0040601/0999412.

33421416 used only with 0040054/41113411.

C. F. Haskin
Specifications & Alterations
Supervisor
Service Parts Department

CFH/se

February 19, 1974



Perkins engines

GENERAL PARTS BULLETIN #187

CHANGE NOTICE FOR PARTS BOOK #3251 - 4.236 S.O.S. ENGINE

- | 1. <u>CYLINDER BLOCK SECTION</u> - Page 2 - All base unit codes | | | | | |
|---|-------------|---------------|------------|------------------------------|-------------|
| <u>Ref.</u> | <u>Note</u> | <u>Delete</u> | <u>Add</u> | <u>Description</u> | <u>Qty.</u> |
| 1 | (A) | 90062 | 92883 | Cylinder Block (Assembly) .. | 1 |
| Note (A) - Component parts comprising 92883 are as 90062. | | | | | |
| Commencing Engine No. 236US15312 | | | | | |
| Interchangeability - Parts are not interchangeable. | | | | | |
| 2. | 17 | 0650593 | 2431132 | Plug | 1 |
| Commencing Engine No. - Not required. | | | | | |
| Interchangeability - not affected. | | | | | |
| 3. <u>CYLINDER BLOCK SECTION</u> - Page 5 - All base unit codes | | | | | |
| <u>Ref.</u> | <u>Note</u> | <u>Delete</u> | <u>Add</u> | <u>Description</u> | <u>Qty.</u> |
| 76 | | 0450035 | 33426161 | Hub, idler gear | 1 |
| Commencing Engine No. 236US11992 | | | | | |
| Interchangeability - 0450035 use 33426161 | | | | | |
| 4. <u>TIMING GEAR SECTION</u> - Page 6 - All base unit codes | | | | | |
| <u>Ref.</u> | <u>Note</u> | <u>Delete</u> | <u>Add</u> | <u>Description</u> | <u>Qty.</u> |
| 45 | | 2414324 | 2414325 | Seal, timing case oil | 1 |
| Commencing Engine No. - Not required. | | | | | |
| Interchangeability - 2414324 use 2414325 | | | | | |
| 5. <u>VALVES & ROCKER GEAR SECTION</u> - Page 17 | | | | | |
| <u>Ref.</u> | <u>Note</u> | <u>Delete</u> | <u>Add</u> | <u>Description</u> | <u>Qty.</u> |
| 7 | | 41151415 | 41151421 | Lever, R.H. | 4 |
| Commencing Engine No. - Not required. | | | | | |
| Interchangeability - Latest type to be supplied. | | | | | |
| 6. <u>BREATHER PIPE SECTION</u> - Page 18 - All base unit codes | | | | | |
| <u>Ref.</u> | <u>Note</u> | <u>Delete</u> | <u>Add</u> | <u>Description</u> | <u>Qty.</u> |
| 1 | | 35732545 | - | Pipe, cyl. head cover | |
| | | | | breather extn. (Assembly)... | 1 |
| 2 | | 0202058 | - | Connection, breather pipe .. | 1 |
| 3 | | 0180103 | - | Clip, hose connection | 2 |
| N/I | | - | 33872517 | Pipe, cylinder head cover | |
| | | | | breather extension | 1 |
| N/I | | - | 2481802 | Clip, breather pipe extn. | |
| | | | | to cylinder head cover | 1 |
| N/I | | - | 35731144 | Pipe, breather conn. (Assy.) | 1 |
| Commencing Engine No. 236US12645. | | | | | |
| Interchangeability - Parts are not interchangeable. | | | | | |

7. ATOMISERS & FUEL INJ. PIPES SECTION - Page 21 - All codes

Ref.	Note	Delete	Add	Description	Qty.
43		35587338	35587344	Pipe	1
N/I		-	0020006	Ball	1
N/I		-	0576111	Nut	1

Commencing Engine No. 236US15312

Interchangeability - Parts are not interchangeable.

8. FUEL OIL LIFT PUMP SECTION - Page 22 - All base unit codes

Ref.	Note	Delete	Add	Description	Qty.
1		2641467		Lift Pump (and all component parts)	1
1		-	2641709	Lift Pump (Assembly)	1
				Includes:	
		-	26410133	Rocker arm	1
		-	26410121	Body	1
		-	26410116	Screw	1
		-	0921235	Washer	1
		-	26410122	Cover	1
		-	0800082	Screen	1
		-	0490695	Gasket	1
		-	26410070	Cover (Assembly)	1
		-	0490627	Gasket	2
		-	32517	Valve	2
		-	26410090	Diaphragm	1
		-	0720709	Screw	5
		-	0921018	Washer	5
		-	0780240	Spring	1
		-	0997128	Retainer	2
		-	26410123	Spring	1
		-	0921019	Washer	2
		-	0610847	Pin	1
		-	0520420	Link	1
27		26410050	26410056	Repair Kit, lift pump	X
44		36862166	36851113	Gasket	1
45		0826208	-	Stud	2
45		-	0826222	Stud	4
46		33221115	-	Nut	2
46		-	33221115	Nut	4
47		33114412	-	Washer	2
47		-	33114412	Washer	4

Commencing Engine No. 236US15312.

Interchangeability - Parts are not interchangeable.

9. LUBRICATING OIL SUMP SECTION - Page 26 - Code B.00

Page 29 - Code B.01 & B.02

Page 30 - Code B.03

Ref.	Note	Delete	Add	Description	Qty.
9		0746255	-	Setscrew, sump to block	12

(Continued on Page 3)

LUBRICATING OIL SUMP SECTION (Continued)

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
9		-	0746255	Setscrew, sump to block ...	11
		-	0746211	Setscrew, sump to block ...	1
		-	0920003	Washer, plain	1

LUBRICATING OIL SUMP SECTION - Page 33 - Code B.04

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
9		0746255	-	Setscrew, sump to block ...	10
9		-	0746255	Setscrew, sump to block ...	9
		-	0746211	Setscrew, sump to block ...	1
		-	0920003	Washer, plain	1

Commencing Engine No. 236US12645

Interchangeability - Parts are not interchangeable.

10. FAN AND EXTENSIONS SECTION - Page 46

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
10		0920645	-	Tabwasher	2
		-	0920053	Washer, spring	4
25		0920645	-	Tabwasher	2
		-	0920053	Washer, spring	4

Commencing Engine No. - Not required.

Interchangeability - 0920645 (2) use 0920053 (4).

11. FUEL INJECTION RATING SECTION - Page 61 - Codes L.01 & L.03

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
				Component part of container	
21		37222	35629	Check Valve	1

Commencing Engine No. - Not required.

Interchangeability - Not affected - correction.

12. FUEL OIL FILTERS SECTION - Page 69 - Code N.00

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
1	(A)	41223224	41222709	Pipe	1
48		38132521	38132522	Bracket	1

Note (A) - Component parts comprising 41222709 are as 41223224.

FUEL OIL FILTERS SECTION - Page 73 - Code N.02

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
1	(A)	41223213	41223506	Pipe	1

Note (A) - Component parts comprising 41223506 are as 41223213.

Commencing Engine No. 236US15312

Interchangeability - Parts are not interchangeable.

13. STARTER MOTORS SECTION - Page 105

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
8		0586051	0576051	Nut	3

Commencing Engine No. - Not required.

Interchangeability - 0586051 use 0576051

14. ACCESSORIES SECTION - Page 129

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
5		0995458	26560129	Glass Bowl	1
Commencing Engine No. - Not required					
Interchangeability - 0995458 use 26560129.					

15. WATER PUMP, ALTERNATOR AND DYNAMO SECTIONS - Pages 108 - 127

<u>Notes</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
(A) (C)	41312911	41312554	Water Pump (Assembly)	1
(B) (D)	41312908	41312552	Water Pump (Assembly)	1
	37483164	-	Hub, water pump pulley ..	1
	2211031	-	Nut, hub retaining	1
	-	31146941	Pulley, water pump	1
	-	0576007	Nut, pulley retaining ..	1
	-	0920058	Washer, spring	1
(A)	-	0096439	Setscrew, pump to block..	2
(A)	-	0920054	Washer, spring	2
(A)	-	0920465	Washer, plain	1
	31146004	-	Pulley, water pump	1
(A)	0096439	-	Setscrew, pump to block ...	2
(A)	0920054	-	Washer, spring	2
(A)	0920465	-	Washer, plain	1

Notes:

- (A) Codes W.04, W.05, W.06, W.14, W.15, W.16, W.20, W.21
Base unit codes VA, VB, VC, VD only.
 - (B) Codes W.11, W.12, W.13, W.17, W.18, W.19, W.22, W.23
Base unit codes VA, VB, VC, VD only.
 - (C) Remainder of parts comprising 41312554 are as 41312911.
 - (D) Remainder of parts comprising 41312552 are as 41312908.
- Interchangeability - 41312911 use 41312554
31146004 use 31146941 - (When fitting
31146941 in place of 31146004, 0576007/0920058 should be fitted
instead of 37483164/2211031)

C. F. Haskin
Specifications & Alterations
Supervisor
Service Parts Department

CFH/se
April 4, 1973

Perkins **engines**

GENERAL PARTS BULLETIN #407

CHANGE NOTICE FOR PARTS BOOK #3251 - 4.236 S.O.S. ENGINE

1. Cylinder Block Section - Page 2 - All base unit codes

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
17		0650593		Plug, cylinder block	1
26		31419		Cock, drain	1
N/I			32161114	Plug, water drain tapping ..	2
Commencing Engine No. - Not required.					
Interchangeability - 0650593 use 32161114					
31419 use 32161114					

2. Timing Gear Section - Page 6 - All base unit codes

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
45		2414325	32116	Seal, oil - timing case	1
Commencing Engine No. - Not required.					
Interchangeability - 2414325 use 32116					

3. Valves & Rocker Gear Section - Page 17 - Codes VE,VF,VG,VH

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
1	(A)	87820	86688	Rocker Shaft (Assembly)	1
7		41151415	41151421	Lever, rocker - R.H.	4
9		41151416	41151419	Lever, rocker - L.H.	4
Note (A) - Ref.No. 15 33811113 "O"Ring is included in #86688.					
Remainder of parts comprising 86688 are as 87820.					
Commencing Engine No. - Not required.					
Interchangeability - 87820 use 86688					
41151415 use 41151421					
41151416 use 41151419					

4. Exhaust Manifold - Page 65 - Codes M.00,M.01,M.02,M.03,M.04

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
4		2211224	2188135	Nut, manifold retaining	4
18		2211283	2188135	Nut, outlet flange	3
37		2211224	2188135	Nut, manifold retaining	4
56		2211224	2188135	Nut, manifold retaining	4
70		2211283	2188135	Nut, outlet flange	3
Commencing Engine No. - Not required.					
Interchangeability - 2211224 use 2188135					
2211283 use 2188135					



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5. Fuel Oil Filters Section - Page 73 - Code N.02

<u>Ref.</u>	<u>Note</u>	<u>Delete</u>	<u>Add</u>	<u>Description</u>	<u>Qty.</u>
14		0920112	2411141	Washer, non-return valve ...	1

Commencing Engine No. - Not required

Interchangeability - 0920112 use 2411141

C. F. Haskin
Specifications & Alterations
Supervisor

CFH/se
November 5, 1973

ALLGEMEINE MITTEILUNGEN

DIESE ERSATZTEILLISTE IST IN ZWEI ABSCHNITTE EINGETEILT. DER ERSTE TEIL ENTHAELT DAS BAUGRUPPENVERZEICHNIS, EIN ALPHABETISCHES INHALTSVERZEICHNIS UND EINEN NUMMERNINDEX ALLER, IN DIESER ERSATZTEILLISTE ERWAEHNTEN TEILNUMMERN. DIE SEITEN DIESES ABSCHNITTS SIND MIT ROEMISCHEN ZIFFERN VERSEHEN.

DER ZWEITE TEIL ENTHAELT EINE ERSATZTEILLISTE AUF DER JEDER ABBILDUNG GEGENUEBERLIEGENDEN SEITE MIT ENTSPRECHENDER TEILNUMMER UND BESCHREIBUNG. DIE SEITEN DIESES ABSCHNITTS SIND MIT ARABISCHEN ZIFFERN VERSEHEN.

ERSATZTEILLISTEN-NUMMER UND AUSGABEDATUM SIND RECHTS UNTEN AUF JEDER SEITE ANGEZEIGT. DER JEWEILIGE MOTORENTYP FUER DEN DIE ERSATZTEILLISTE BESTIMMT IST, WIRD IN DER MITTE UNTEN ANGEFUEHRT.

EINGERUECKTE TEILNUMMERN IN DER BESCHREIBUNGSSPALTE BEDEUTEN, DASS DIE ENTSPRECHENDEN TEILE UNTERGRUPPEN BZW. EINZELTEILE DES VORHERGEGANGENEN KOMPLETTEILS SIND.

AUS DER ANZAHLSPALTE IST DIE ERFORDERLICHE STUECKZAHL FUER DEN MOTOR ERSICHTLICH; EINE AUSNAHME BILDEN DIE EINGERUECKTEN BESCHREIBUNGEN. IN DIESEM FALLE REPRESENTIERT DIE ANGEZEIGTE STUECKZAHL DIE ERFORDERLICHE MENGE FUER DIE VORHERGEGANGENE MONTAGE ODER TEILMONTAGE.

FUER MANCHE TEILE, WIE UMBAUSAETZE, EINSTELLBLECHE, USW. IST IN DER ANZAHLSPALTE EIN "X" ANGEFUEHRT. DIESES "X" BEDEUTET "NACH BEDARF".

FALLS AENDERUNGEN AM MOTOR Vorgenommen werden, wird dies durch eine TEILAENDERUNGS-NOTIZ mitgeteilt. Diese Informationen sollen, sobald sie zur Hand sind, auf der entsprechenden Seite eingetragen werden.

VON ZEIT ZU ZEIT WERDEN NEUE ODER UEBERARBEITETE SEITEN FUER ERSATZTEILLISTEN HERAUSGEGEBEN. UEBERARBEITETE SEITEN TRAGEN DIE GLEICHE NUMMERIERUNG WIE DIE ZU ERSETZENDEN, JEDOCH MIT NEUEM AUSGABEDATUM. NEU HERAUSGEGEBENE SEITEN WERDEN MIT BEREITS VORHANDENER NUMMERIERUNG VERSEHEN, DER EIN BUCHSTABE BEIGEFUEGT IST. DIESE SEITEN SOLLN NACH DEN DIESELBE NUMMERIERUNG TRAGENDEN SEITEN ENTSPRECHEND EINGEHEFTET WERDEN.

ES IST WICHTIG, NEUE UND UEBERARBEITETE SEITEN AN DEN ENTSPRECHENDEN STELLEN DER ERSATZTEILLISTE EINZUHEFTEN, SOBALD SIE ZUR HAND SIND. WIRD DIES UNTERLASSEN, ENTSTEHT LEICHT EINE VERWIRRUNG, DIE DEN ZWECK DIESER ERSATZTEILLISTE VERFEHLT.

INFORMACION GENERAL

ESTE LIBRO COMPRENDE DOS SECCIONES. LA PRIMERA SECCION CONTIENE UN INDICE DE LAS ILUSTRACIONES Y TAMBIEN DE LAS VARIAS DIVISIONES MAS UN INDICE NUMERICO QUE INCLUYE TODOS LOS NUMEROS DE LAS PIEZAS DE REPUESTO QUE CONTIENE ESTE LIBRO. LAS PAGINAS EN ESTA SECCION ESTAN NUMERADAS CON NUMEROS ROMANOS.

LA SEGUNDA SECCION INCLUYE UNA LISTA DE LOS NUMEROS DE LAS PIEZAS DE REPUESTO RELACIONADOS A LOS NUMEROS INDICADOS EN LAS ILUSTRACIONES CORRESPONDIENTES QUE APARECEN EN LA CONTRA-PAGINA. LAS PAGINAS EN ESTA SECCION ESTAN NUMERADAS CON NUMEROS ARABIGOS.

EL NUMERO DE LA PUBLICACION Y SU FECHA DE EMISION SE ENCUENTRAN EN LA ESQUINA INFERIOR DERECHA DE LA PAGINA. EN TODAS LAS PAGINAS SE INDICA EL MODELO DE MOTOR PARA AYUDAR EN LA IDENTIFICACION DEL MOTOR AL CUAL SE REFIERE EL LIBRO DE PIEZAS DE REPUESTO.

LOS NUMEROS DE PIEZAS DE REPUESTO QUE SE ENCUENTRAN CORRIDOS HACIA LA DERECHA EN LA LISTA DESCRIPTIVA FORMAN PARTE INTEGRAL DEL CONJUNTO O SUB-CONJUNTO PRECEDENTE.

LA CIFRA INDICADA EN LA COLUMNA DENOMINADA "NUMERO REQUERIDO" REPRESENTA LA CANTIDAD DE DICHA PIEZA EMPLEADA EN EL MOTOR, CON LA EXCEPCION DE LAS PIEZAS DE REPUESTO CUYOS NUMEROS SE ENCUENTRAN CORRIDOS HACIA LA DERECHA EN LA LISTA DESCRIPTIVA. EN ESTE CASO LA CIFRA INDICADA SE REFIERE A LA CANTIDAD INCLUIDA EN EL CONJUNTO O SUB-CONJUNTO PRECEDENTE.

EN EL CASO DE CIERTAS PIEZAS DE REPUESTO, TAL COMO EQUIPOS, LAMINAS ETC., SE ENCONTRARA UNA LETRA "X" EN LA COLUMNA DENOMINADA "NUMERO REQUERIDO". LA LETRA "X" INDICA QUE SE COLOCA EN EL MOTOR LA CANTIDAD QUE SEA NECESARIA.

SI SE HACEN MODIFICACIONES AL MOTOR, SE DARAN LOS DETALLES DE DICHAS MODIFICACIONES POR MEDIO DE UN 'AVISO DE MODIFICACION DE PIEZAS'. SE RECOMIENDA QUE DICHA INFORMACION SEA INGRESADA EN LAS PAGINAS APROPIADAS TAN PRONTO COMO SE RECIBA.

DE VEZ EN CUANDO SE EMITIRAN PAGINAS NUEVAS O REVISADAS PARA ESTE LIBRO. EN TODO CASO UNA PAGINA REVISADA LLEVARA EL MISMO NUMERO DE PAGINA COMO LA PAGINA ANTICUADA QUE VA A REEMPLAZAR, PERO CON FECHA NUEVA. CADA PAGINA NUEVA, SINEMBARGO, LLEVARA EL MISMO NUMERO DE PAGINA COMO LA PAGINA QUE VA A COMPLEMENTAR PERO CON UNA LETRA DE SUFIJO. DICHAS PAGINAS NUEVAS DEBEN SER COLOCADAS EN EL LIBRO DE PIEZAS DE REPUESTO COMO CONTINUACION A LA PAGINA ACTUAL.

ES IMPRESCINDIBLE QUE SE COLOQUEN LAS PAGINAS NUEVAS O REVISADAS EN SU LIBRO DE PIEZAS DE REPUESTO TAN PRONTO COMO SE RECIBAN. LA FALTA DE HACERLO PODRIA DAR LUGAR A CONFUSIONES E INVALIDEZ DEL LIBRO.

INTRODUCTION

SOURCE OF SUPPLY

PARTS ARE AVAILABLE FROM THE FOLLOWING SOURCES:

PERKINS OVERSEAS COMPANIES.

PERKINS DISTRIBUTORS AND SERVICE SIGNHOLDERS.

WE ARE UNABLE TO DEAL WITH OPERATORS DIRECT AND THEREFORE SUPPLIES SHOULD BE OBTAINED BY PLACING FIRM ORDERS WITH ONE OF THE AFOREMENTIONED SOURCES OF SUPPLY.

SCREW THREADS.

ALL SCREW THREADS ON THIS ENGINE, EXCEPT ON CERTAIN ITEMS OF PROPRIETARY EQUIPMENT, ARE UNIFIED SERIES AND AMERICAN PIPE SERIES.

THE ITEMS DESCRIBED AND ILLUSTRATED IN THIS PARTS BOOK ARE CORRECT AT THE TIME OF PUBLICATION BUT AS DEVELOPMENTS ARE MADE WE RESERVE THE RIGHT TO ALTER OR WITHDRAW ITEMS WITHOUT NOTICE.

INTRODUCTION

POINTS D'APPROVISIONNEMENT.

LES PIECES DE RECHANGE SONT DISPONIBLES CHEZ:

LES DIFFERENTES SOCIETES PERKINS.

LES CONCESSIONNAIRES ET AGENTS PERKINS AGREES.

IL NE NOUS EST PAS POSSIBLE DE FOURNIR DIRECTEMENT LES PIECES AUX UTILISATEURS ET POUR CETTE RAISON LES APPROVISIONNEMENTS DOIVENT ETRE EFFECTUES PAR COMMANDES A NOS CONCESSIONNAIRES OU AGENTS AGREES.

FILETAGES

TOUS LES FILETAGES DE CE MOTEUR, SAUF CEUX DE CERTAINES PIECES DES ORGANES D'EQUIPEMENT SONT DU "TYPE UNIFIE" ET DU "TYPE AMERICAIN POUR TUBE".

LES PIECES DECRITES ET ILLUSTRÉES DANS CE CATALOGUE SONT EXACTES A LA DATE DE PUBLICATION MAIS AU FUR ET A MESURE DES AMELIORATIONS APPORTEES NOUS RESERVONS LE DROIT DE MODIFIER OU DE SUPPRIMER N'IMPORTE LESQUELLES D'ENTRE ELLES SANS PREAVIS.

HINWEIS

BEZUGSQUELLE.

ERSATZTEILE KOENNEN BEZOGEN WERDEN VON:

PERKINS NIEDERLASSUNGEN.

PERKINS—HAENDLERN UND PERKINS—WERKSTAETTEN.

ES IST NICHT MOEGlich, KUNDEN DIREKT ZU BELIEFERN. WIR BITTEN, ERSATZTEIL—BEDARF BEI EINER DER OBEN AUFGEFUEHRTEN BEZUGSQUELLEN ZU DECKEN.

GEWINDE

ALLE GEWINDE AN DIESEM MOTOR, MIT AUSNAHME VON GEWISSEN UNTERLIEFERANTEN-TEILEN SIND NACH UNIFIED—NORM UND AMERICAN PIPE—NORM GEFERTIGT.

DIE IN DIESER ERSATZTEIL—LISTE AUFGEFUEHRTEN UND ABGEBILDTE TEILE ENTSPRECHEN DEM STAND BEI AUSGABE DER LISTE. BEI AENDERUNGEN BEHALTEN WIR UNS DAS RECHT VOR, OHNE INFORMATION, TEILE ZU AENDERN ODER ZU STREICHEN.

PROLOGO

ORIGEN DE SUMINSTRO.

AS PEIZAS PUEDEN OBTENERLAS DE:

COMPANIAS PERKINS EN ULTRAMAR.

DISTRIBUIDORES PERKINS Y AGENTES DE SERVICIO PERKINS.

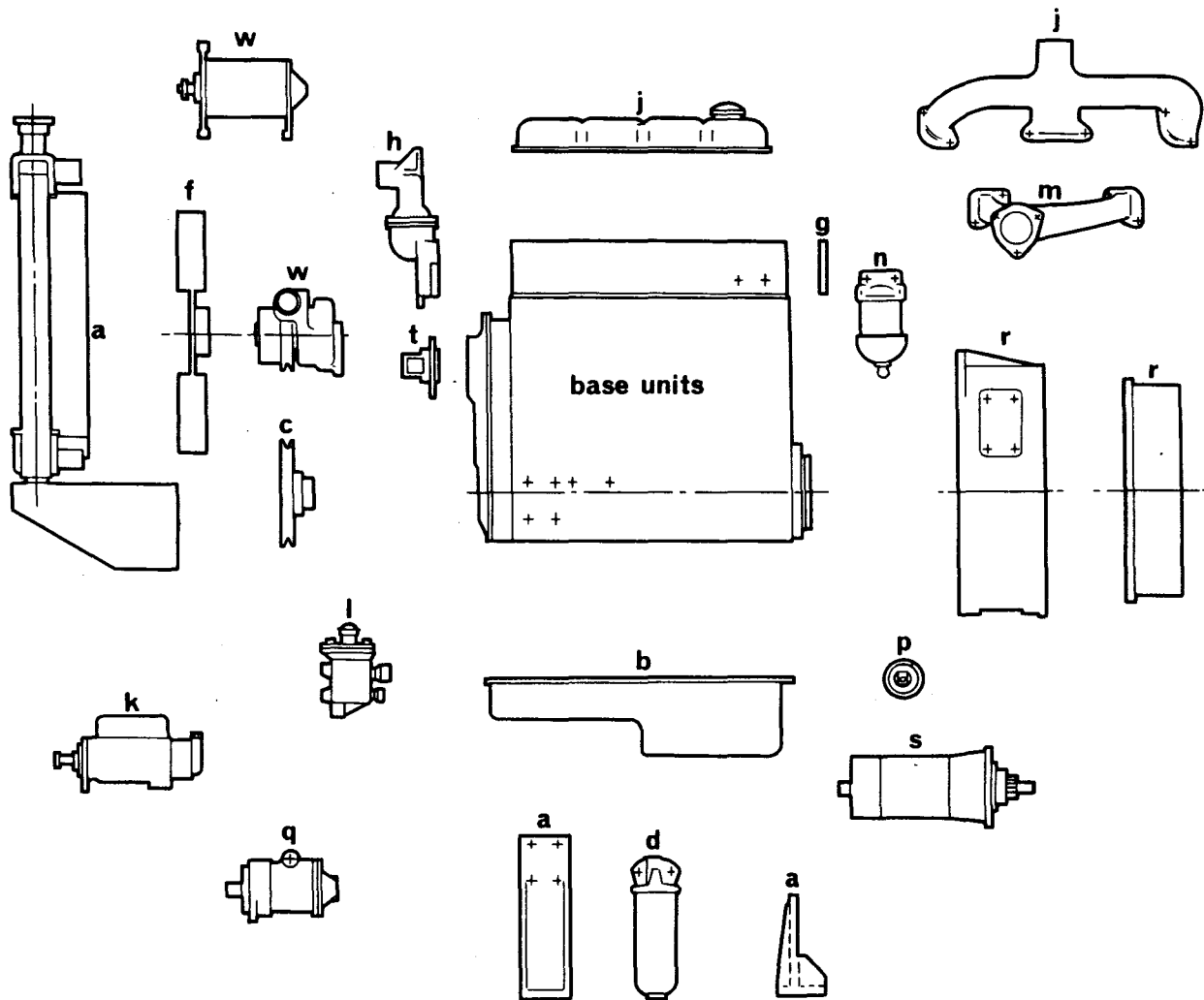
NO PODEMOS TRATAR DIRECTAMENTE CON LOS USUARIOS, POR CONSIGUIENTE, LOS SUMINISTROS LOS OBTENDRAN SOLICITANDO LAS PIEZAS DE RECAMBIO A CUALQUIERA DE LOS MENCIONADOS REPRESENTANTES.

ROSCAS

TODAS LAS ROSCAS DE LOS TORNILLOS DE ESTE MOTOR, EXCEPTO LAS DE ALGUNAS PIEZAS DE EQUIPO SUMINISTRADAS POR OTROS FABRICANTES, SON DE LAS SERIES UNIFICADAS Y DE TUBERIAS AMERICANAS.

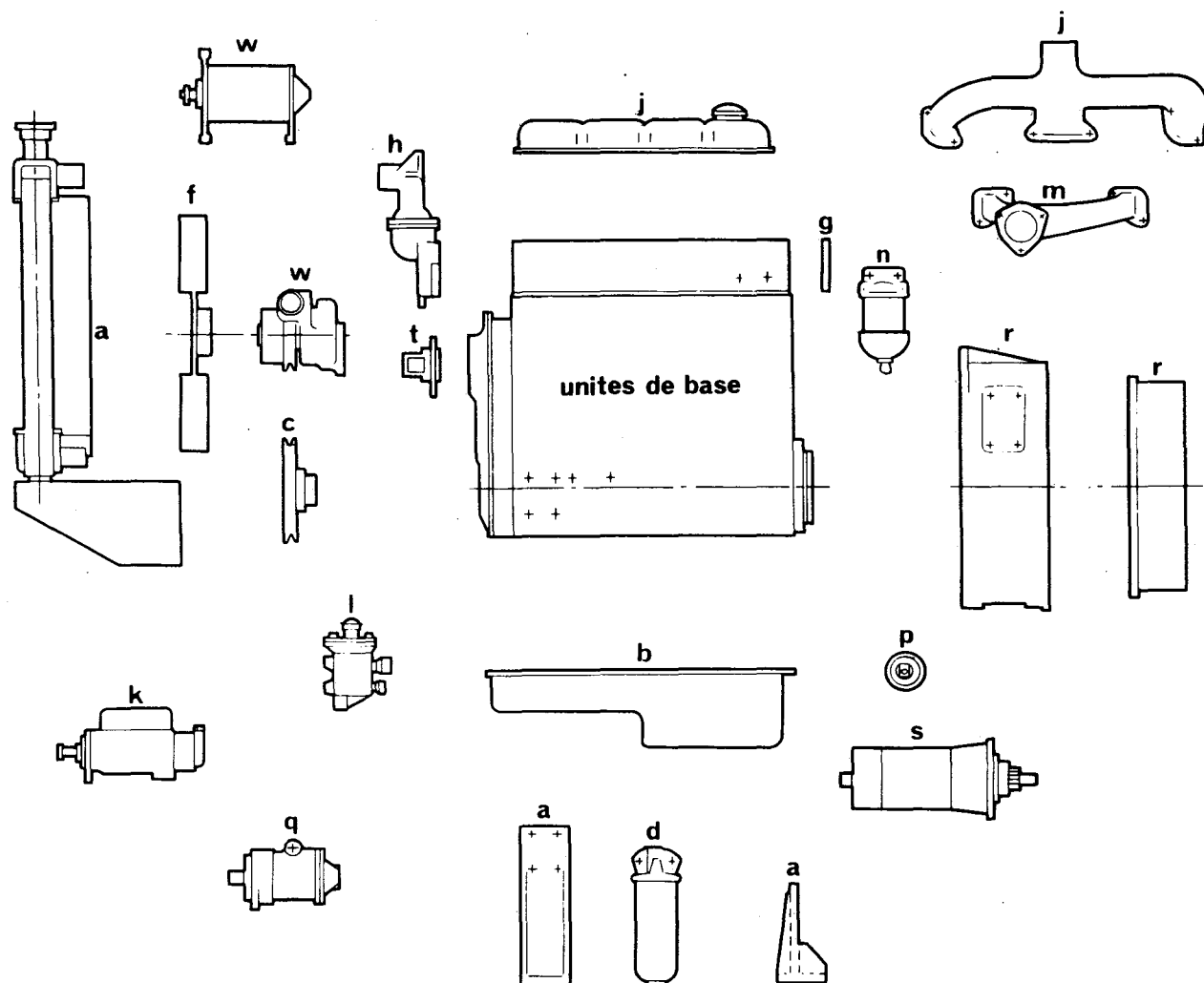
LA DESCRIPCION E ILUSTRACION DE LAS PIEZAS EN ESTE LIBRO SON CORRECTAS AL TIEMPO DE SU PUBLICACION, PERO NOS RESERVAMOS EL DERECHO DE ALTERAR O RETIRAR PIEZAS DE LA LISTA SIN NINGUN AVISO PREVIO CUANDO SEA NECESARIO, DEBIDO A MEJORAS.

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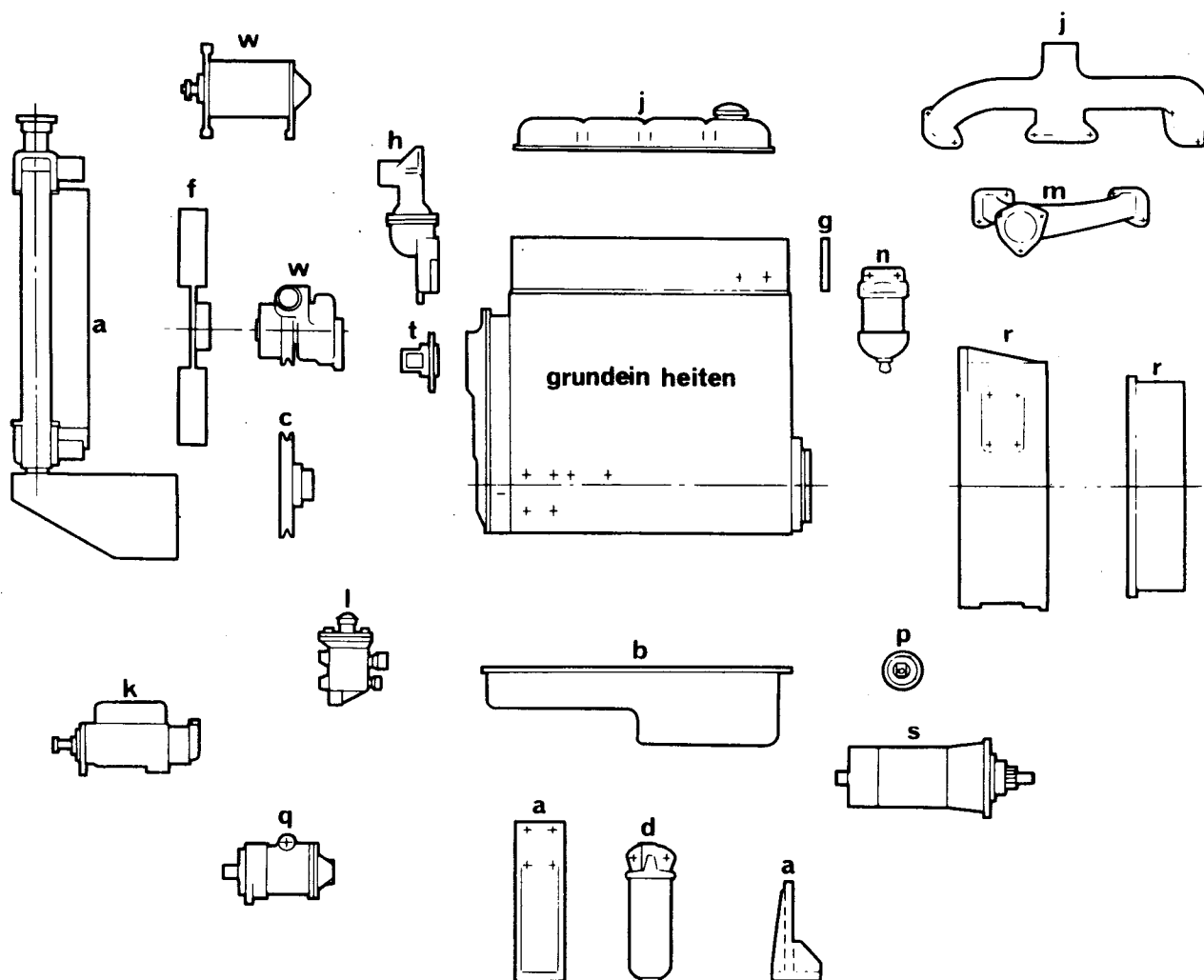
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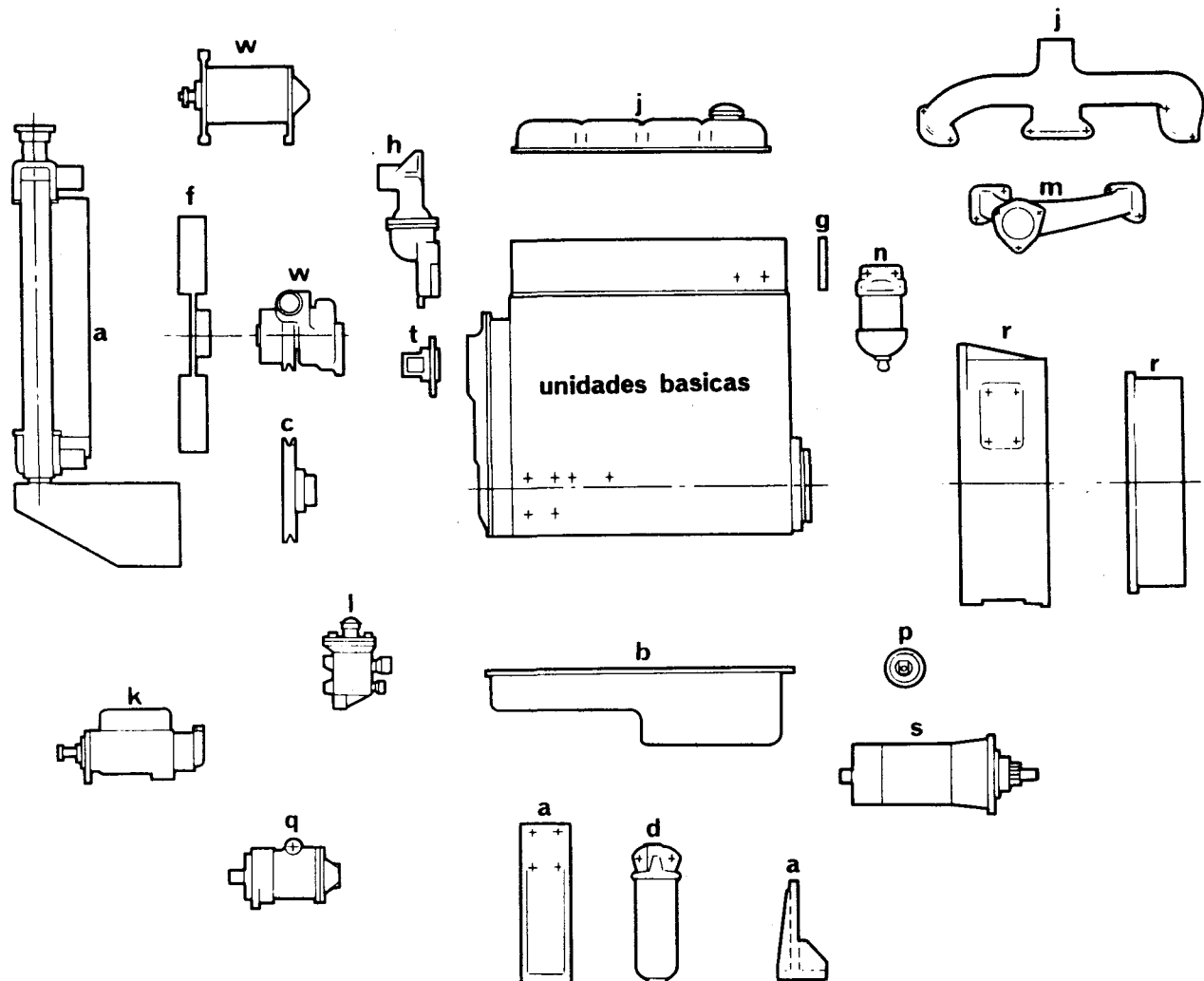
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CYLINDER BLOCK
BLOC CYLINDRE
ZYLINDERBLOCK
BLOQUE DE CILINDROS

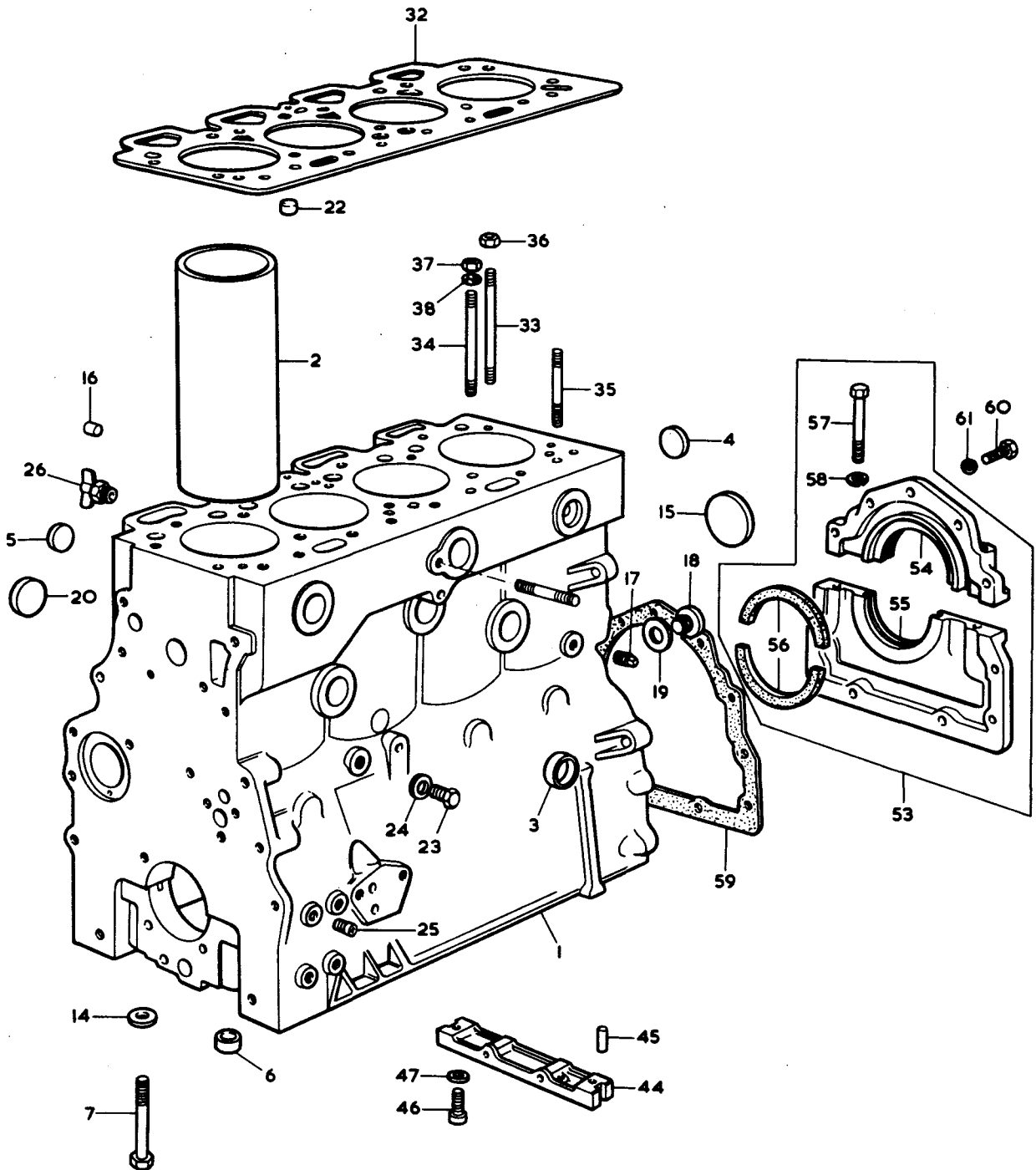
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BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VT ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		90062	BLOCK.....	BLOC.....	ZYLINDERBLOCK.....	BLOQUE.....	1
2		31358324	LINER.....	CHEMISE.....	LAUFBUCHSE.....	FORRO.....	4
3		0650563	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	6
4		0650563	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	2
5		32418117	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	4
6		33142111	THIMBLE.....	BAGUE.....	FUEHRUNGSBUCHSE.....	MANGUITO.....	10
7		32166314	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	10
14		0760001	SHIMWASHER.....	CALE.....	EINSTELLBLECH.....	SUPLEMENTO.....	10
15		32416105	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	1
16		32417133	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	1
17		0650593	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
18		0650582	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
19		0920130	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
20		0650577	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	3
21(B)		0826233	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
22		32417134	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	1
23		0746451	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
24		0920155	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
25		32114481	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	8
26		31419	COCK.....	ROBINET DE VIDANGE.....	WASSERABLASSHAHN.....	GRIFO.....	1
32		36812334	GASKET.....	JOINT.....	ZYLINDERKOPFDICHTUNG..	JUNTA.....	1
33(C) (G)		32526313	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
34(D) (G)		32526311	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
35(E) (G)		32526312	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
36(F)		33221316	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
37		33287318	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
38		0920007	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
44		36277831	BRIDGE-PIECE.....	ENTRETOISE.....	ABSTANDPLATTE.....	PUENTE.....	1
45		32811408	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	2
46		2176369	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	2
47		0920521	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	2
48		59537	HOUSING.....	CARTER.....	GEHAEUSE.....	CARTER.....	1
49			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BEST. KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
50			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BEST. KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
51		36883108	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	2
52		0096238	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
53		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
54		36817136	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
55		0746211	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	11
56		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	11

CONTD.
SUITE.
FORTS.
CONTN.

CYLINDER BLOCK
BLOC CYLINDRE
ZYLINDERBLOCK
BLOQUE DE CILINDROS

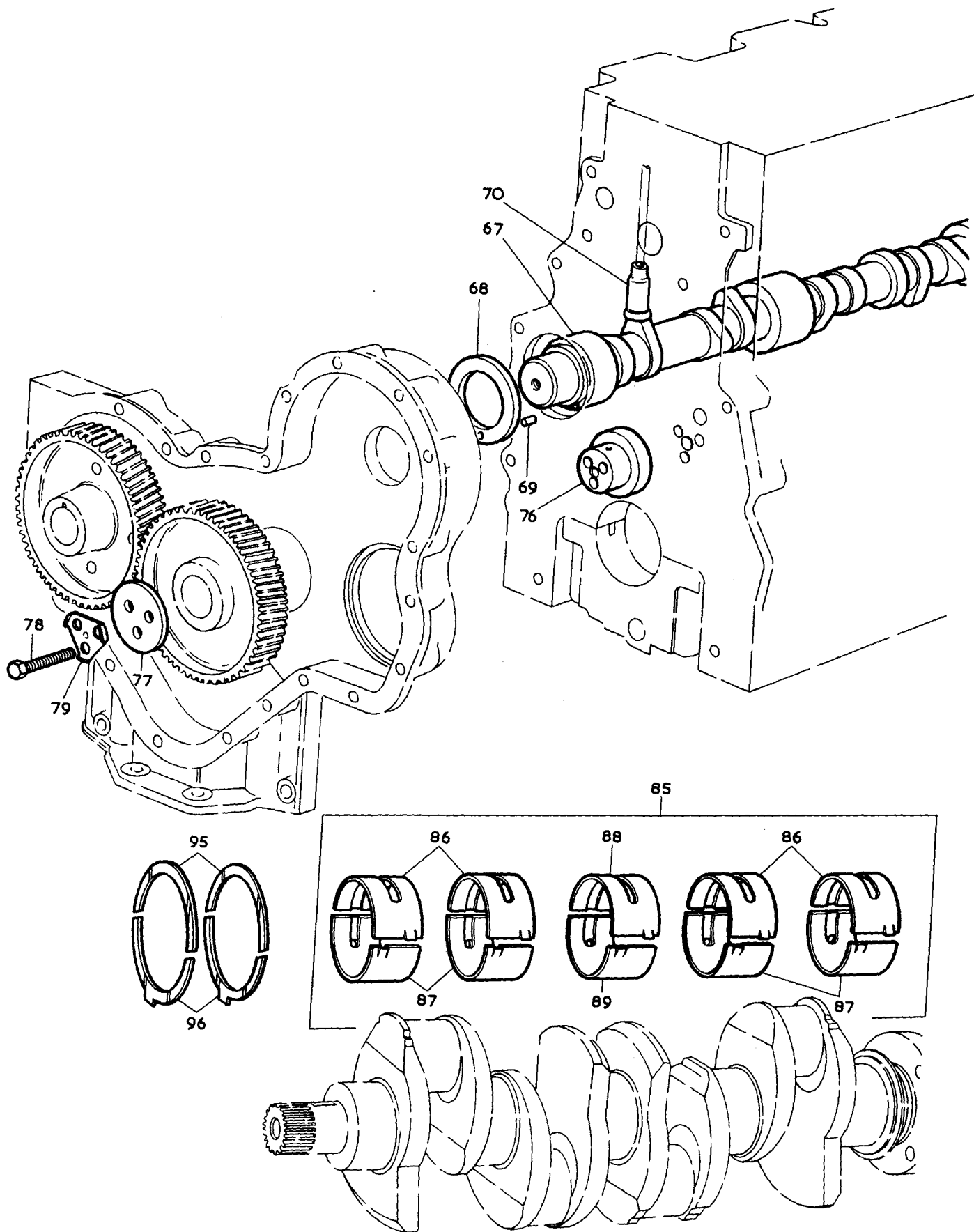
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CPO 2858 / 1



CYLINDER BLOCK
BLOC CYLINDRE
ZYLINDERBLOCK
BLOQUE DE CILINDROS

CPO 2859



CYLINDER BLOCK
BLOC CYLINDRE
ZYLINDERBLOCK
BLOQUE DE CILINDROS

5

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
67		31415292	CAMSHAFT.....	ARBRE A CAMES.....	NOCKENWELLE.....	ARBOL DE LEVAS.....	1
68		33153121	THRUSTWASHER.....	RONDELLE DE POUSSEE...	ANLAUFRINGHAELFTE.....	ARANDELA.....	1
69		0610844	DOWEL.....	PION.....	STIFT.....	ESPIGA.....	1
70		31434162	TAPPET.....	POUSSOIR.....	STOESSEL.....	TAQUE.....	8
76		0450035	HUB.....	MOYEU.....	NABE.....	CUBO.....	1
77		0941082	PLATE.....	PLAQUE.....	SICHERUNGSPLATTE.....	PLACA.....	1
78		0096439	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	3
79		0921246	TABWASHER.....	FREIN DE VIS.....	SICHERUNGSBLECH.....	ARANDELA.....	1
85(A)		81558	BEARING STD.....	COUSSINET STD.....	HAUPTLAGER STD.....	COJINETE STD.....	1
85(A)		81558A	BEARINGS (-) 0.010"...	COUSSINET (-) 0,010"...	HAUPTLAGER (-) 0,010"...	COJINETE (-) 0,010"...	X
85(A)		81558B	BEARINGS (-) 0.020"...	COUSSINET (-) 0,020"...	HAUPTLAGER (-) 0,020"...	COJINETE (-) 0,020"...	X
85(A)		81558C	BEARINGS (-) 0.030"...	COUSSINET (-) 0,030"...	HAUPTLAGER (-) 0,030"...	COJINETE (-) 0,030"...	X
86			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	4
87			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	4
88			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
89			ORDER ASSEMBLY.....	COMM. ENSEMBLE.....	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
95		31137311	WASHER STD.....	RONDELLE STD.....	AXIALLAGER STD.....	ARANDELA STD.....	2
95		31137312	WASHER (+) 0.007".....	RONDELLE (+) 0,007"...	AXIALLAGER (+) 0,007"...	ARANDELA (+) 0,007"...	X
96		31137321	WASHER STD.....	RONDELLE STD.....	AXIALLAGER STD.....	ARANDELA STD.....	2
96		31137322	WASHER (+) 0.007".....	RONDELLE (+) 0,007"...	AXIALLAGER (+) 0,007"...	ARANDELA (+) 0,007"...	X

NOTES:- (A) BEARINGS ARE PRE-FINISHED
NOTER:- LES COUSSINETS SONT PRE-FINIS
BEMERKUNGEN:- FERTIGLAGER
NOTAS:- LES COJINETES SON PREACABADOS

(B) REPLACES 32114116

(C) TO ENG. NO. 236US8370

(D) "12 OFF" USED TO ENG. NO. 236US8370

(E) "8 OFF" USED TO ENG. NO. 236US8370

(F) "21 OFF" USED TO ENG. NO. 236US8370

(G) FROM ENG. NO. 236US8371 SETSCREWS SECURING SEE CYL. HEAD SECTION

TIMING GEAR
DISTRIBUTION
STEUERUNG
DISTRIBUCION

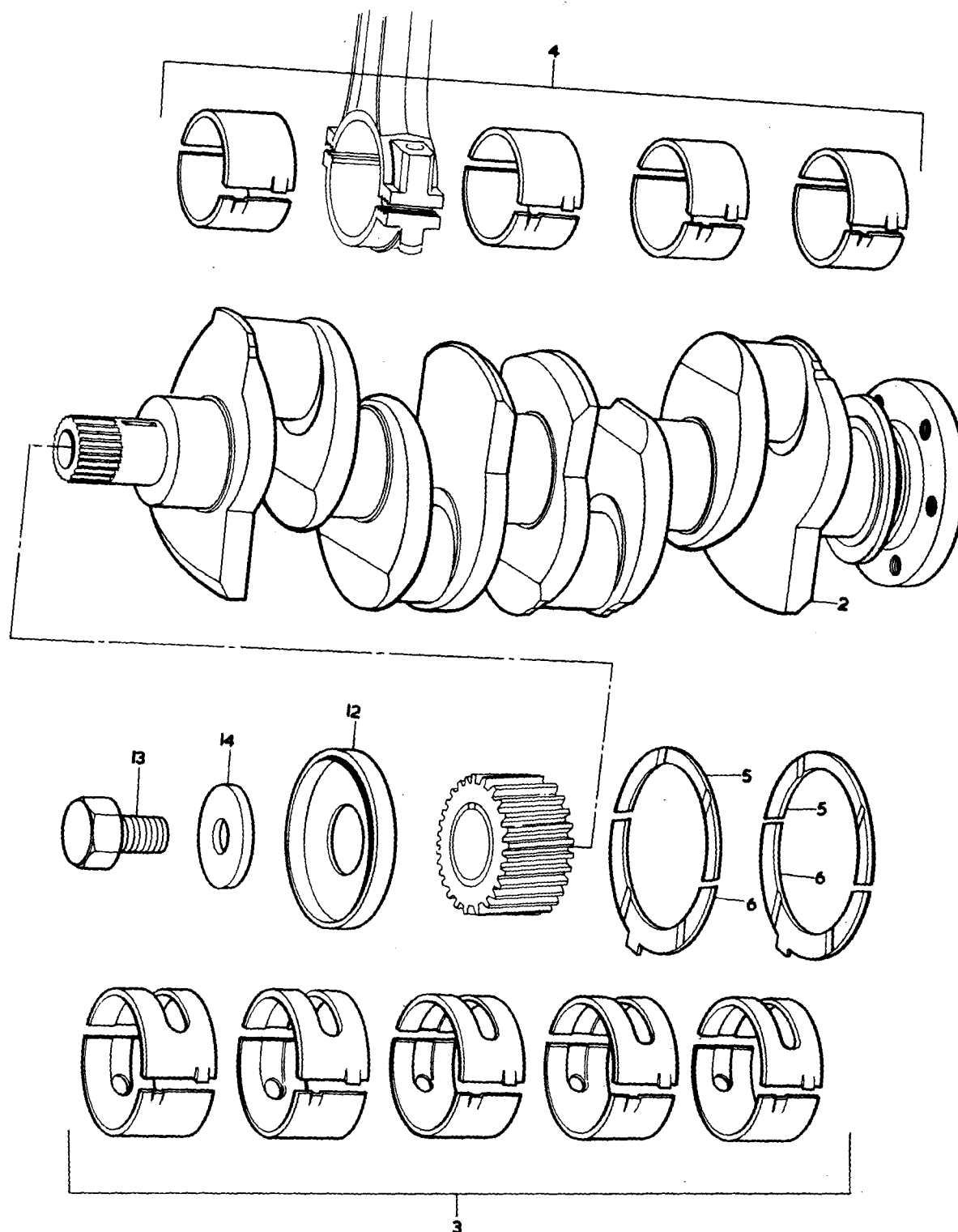
Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		31171353	GEAR.....	PIGNON.....	NOCKENWELLENRAD.....	ENGRANAJE.....	1
2		0500012	KEY.....	CLAVETTE.....	SCHEIBENFEDER.....	CHAVETA.....	1
3		2182122	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
4		33153128	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
5		31733121	TABWASHER.....	FREIN.....	SICHERUNGSBLECH.....	ARANDELA.....	1
6		33115408	SHIMWASHER.....	CALE.....	EINSTELLBLECH.....	SUPLEMENTO.....	1
12		31171681	GEAR.....	PIGNON.....	ZAHNRAD.....	ENGRANAJE.....	1
13		0500012	KEY.....	CLAVETTE.....	SCHEIBENFEDER.....	CHAVETA.....	1
19(A)		41115115	GEAR.....	PIGNON.....	ZWISCHENRAD.....	ENGRANAJE.....	1
20			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
21		2116078	DOWEL.....	PION.....	ZYLINDERSTIFT.....	ESPIGA.....	1
22(B)		31171721	GEAR.....	PIGNON.....	ZAHNRAD.....	ENGRANAJE.....	1
23(B)		0170044	CIRCLIP.....	CIRCLIP.....	SICHERUNGSRING.....	ARO RETEN.....	1
24(B)		37427503	PLATE.....	PLAQUE DE FIXATION...	SICHERUNGSPLATTE.....	PLACA.....	1
25(B)		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	3
26(B)		0920003	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	3
27(B)		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	3
33(B)		33457191	CARRIER.....	SUPPORT.....	HALTER.....	PORTADOR.....	1
34(B)		0490773	JOINT.....	JOINT.....	DICHTRING.....	JUNTA.....	1
35(A)		0826277	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	3
35(B)		0826209	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	3
36		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	3
37		0920003	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	3
38		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	3
44(A)		37161311	HOUSING.....	CARTER.....	STEUERGEHAEUSE.....	CAJA.....	1
44(B)		37161342	HOUSING.....	CARTER.....	STEUERGEHAEUSE.....	CAJA.....	1
45		2414324	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
46		36814123	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
47		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	9
48		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	9
54		37166411	COVER.....	COUVERCLE.....	DECKEL.....	TAPA.....	1
55		36813138	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
56		0096238	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	4
57		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	12
58		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	16
59		0746454	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
60		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
61		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	3
62		2411152	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	3
68(B)		37556117	PLATE.....	COUVERCLE.....	DECKEL.....	TAPA.....	1
69(B)		36825107	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
70(B)		0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	4
71(B)		2411152	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	4
77		32186118	PIN.....	PION.....	BOLZEN.....	PASADOR.....	1
78		2411151	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1

NOTES:- (A) CODES VA, VB, VC AND VD ONLY
 NOTER:- CODES VA, VB, VC ET VD SEULEMENT
 BEMERKUNGEN:- NUR CODEN VA, VB, VC UND VD
 NOTAS:- CODIGOS VA, VB, VC Y VD SOLAMENTE
 (B) CODES VE, VF, VG AND VH ONLY
 CODES VE, VF, VG ET VH SEULEMENT
 NUR CODEN VE, VF, VG UND VH
 CODIGOS VE, VF, VG Y VH SOLAMENTE

[illegible]

CPO 2861

CRANKSHAFT
VILEBREQUIN
KURBELWELLE
CIGUENAL



CRANKSHAFT
VILEBREQUIN
KURBELWELLE
CIGUENAL

9

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		84421	CRANKSHAFT AND BEARINGS KIT.....	VILEBREQUIN ET JEU DE COUSSINETS.....	KURBELWELLE MIT HAUPTLAGERN.....	JUEGO DE CIGUENAL Y COJINETES.....	1
2			ORDER ASSEMBLY.....	COMMANDEUR ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
3(A)			BEARINGS.....	COUSSINET.....	HAUPTLAGER.....	COJINETE.....	1
4(B)			BEARINGS.....	COUSSINET.....	HAUPTLAGER.....	COJINETE.....	1
5(A)			WASHER.....	RONDELLE.....	AXIALLAGER.....	ARANDELA.....	2
5(C)		31137175	WASHER.....	RONDELLE.....	AXIALLAGER.....	ARANDELA.....	2
6(A)			WASHER.....	RONDELLE.....	AXIALLAGER.....	ARANDELA.....	2
6(C)		31137181	WASHER.....	RONDELLE.....	AXIALLAGER.....	ARANDELA.....	2
12		33157523	FLANGE.....	DEFLECTOR.....	OELSCHLEUDERSCHEIBE...	DEFLECTOR.....	1
13		32162319	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	1
14		33125124	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1

NOTES:- (A) SEE CYLINDER BLOCK SECTION
 NOTER:- VOIR SECTION BLOC CYLINDRE
 BEMERKUNGEN:- SIEHE GRUPPE ZYLINDERBLOCK
 NOTAS:- VEASE SECCION BLOQUE DE CILINDROS
 (B) SEE PISTON AND ROD SECTION
 VOIR SECTION PISTONS ET BIELLES
 SIEHE GRUPPE KOLBEN UND PLEUELSTANGEN
 VEASE SECCION PISTONES Y BIELAS
 (C) NOT REQUIRED
 PAS NECESSAIRE
 NICHT ERFORDLICH
 NO ES NECESARIA

PISTONS AND RINGS
PISTONS ET BIELLES
KOLBEN UND PLEUELSTANGEN
PISTONES Y BIELAS

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		84920	ROD.....	BIELLE.....	PLEUELSTANGE.....	BIELA.....	4
2			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
3			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
4		32762116	BOLT.....	BOULON.....	BOLZEN.....	PERNO.....	2
5		33221321	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
6		31134123	BUSH.....	BAGUE.....	PLEUELBUCHSE.....	BUJE.....	1
12(B)		85042	BEARINGS STD.....	COUSSINET STD.....	HAUPTLAGER STD.....	COJINETE STD.....	1
12(B)		85042A	BEARINGS(-) 0.010"....	COUSSINET(-) 0,010"...	HAUPTLAGER(-) 0,010"..	COJINETE(-) 0,010"...	X
12(B)		85042B	BEARINGS(-) 0.020"....	COUSSINET(-) 0,020"...	HAUPTLAGER(-) 0,020"..	COJINETE(-) 0,020"...	X
12(B)		85042C	BEARINGS(-) 0.030"....	COUSSINET(-) 0,030"...	HAUPTLAGER(-) 0,030"..	COJINETE(-) 0,030"...	X
13			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
13			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
19(D)			PISTON STD.....	PISTON STD.....	KOLBEN STD.....	PISTON STD.....	
20(C) (A)		82878	PISTON STD.....	PISTON STD.....	KOLBEN STD.....	PISTON STD.....	4
21			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
22		0170002	CIRCLIP.....	CIRCLIP.....	SICHERUNGSRING.....	ARO RETEN.....	2
23		83388	KIT.....	JEU.....	KOLBENRINGSATZ.....	JUEGO.....	4
24(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	
25(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	
26(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	
(F)		83424	KIT.....	JEU.....	KOLBENRINGSATZ.....	JUEGO.....	X
19(D)			PISTON(+) 0.030".....	PISTON(+) 0,030".....	KOLBEN(+) 0,030".....	PISTON(+) 0,030".....	
20(C) (A)		82878C	PISTON(+) 0.030".....	PISTON(+) 0,030".....	KOLBEN(+) 0,030".....	PISTON(+) 0,030".....	X
21			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
22		0170002	CIRCLIP.....	CIRCLIP.....	SICHERUNGSRING.....	ARO RETEN.....	2
23		83388C	KIT.....	JEU.....	KOLBENRINGSATZ.....	JUEGO.....	X
24(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	
25(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	
26(E)			RING.....	SEGMENT.....	KOLBENRING.....	ARO PISTON.....	

NOTES:- (A) ALSO INCLUDES ITEMS 21 AND 22

NOTER:-

BEMERKUNGEN:-

NOTAS:-

- (B) BEARINGS ARE PRE-FINISHED
LES COUSSINETS SONT PRE-FINIS
FERTIGLAGER
LES COJINETES SON PREACABADOS
(C) PISTONS ARE PRE-TOPPED
LE PISTONS SONT PRE AJUSTES
KOLBENKOPF FERTIG BEARBEITET
PISTONES CON CORONA PRE-REMATADA

(D) USE PISTON ASSY AND RING KIT

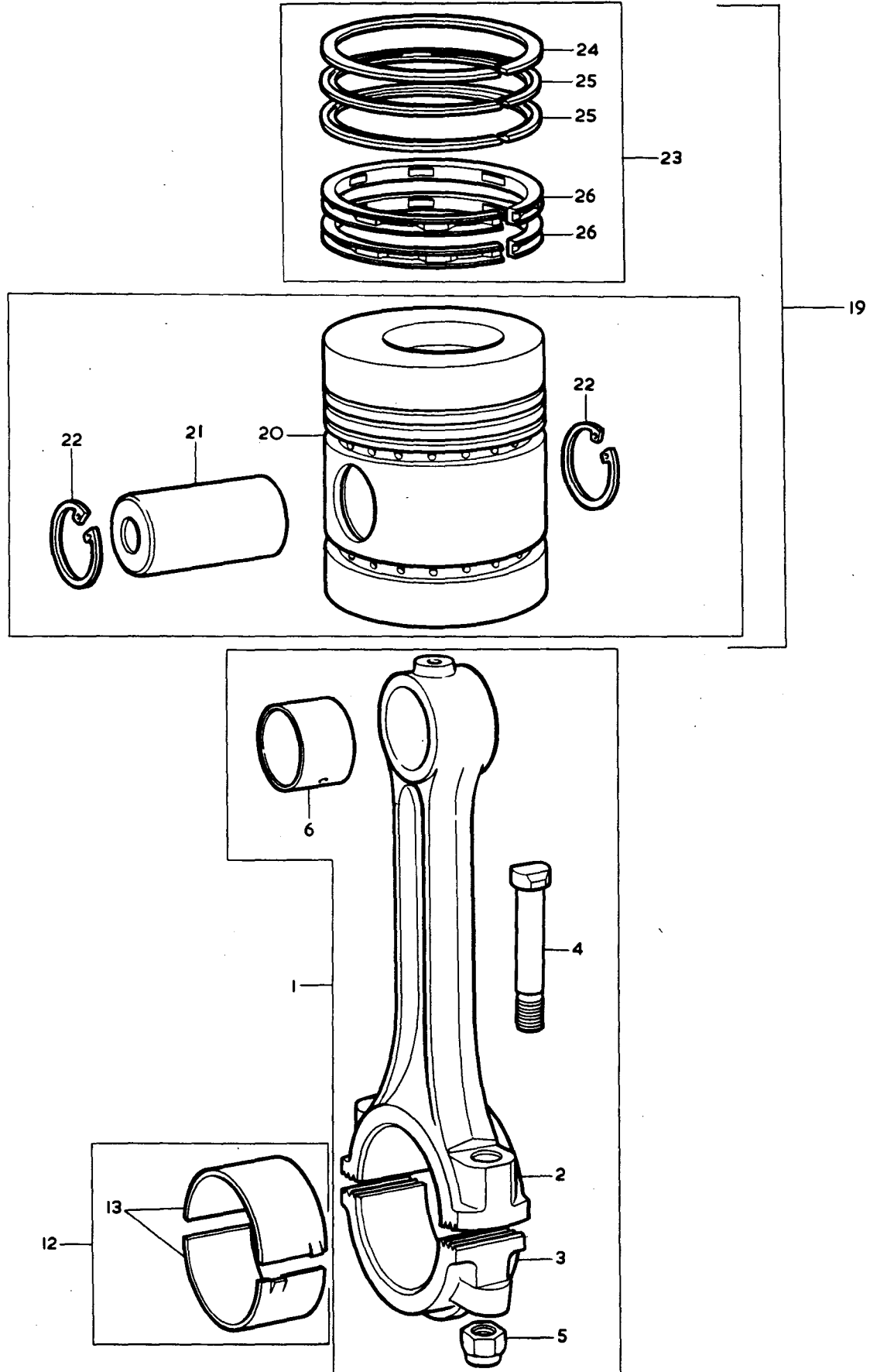
(E) NO LONGER SERVICED INDIVIDUALLY USE APPROPRIATE RING KIT

(F) SERVICE RING PACK FOR ENGINES WITH WORN CAST IRON LINERS

PISTONS AND RODS
 PISTONS ET BIELLES
 KOLBEN UND PLEUELSTANGEN
 PISTONES Y BIELAS

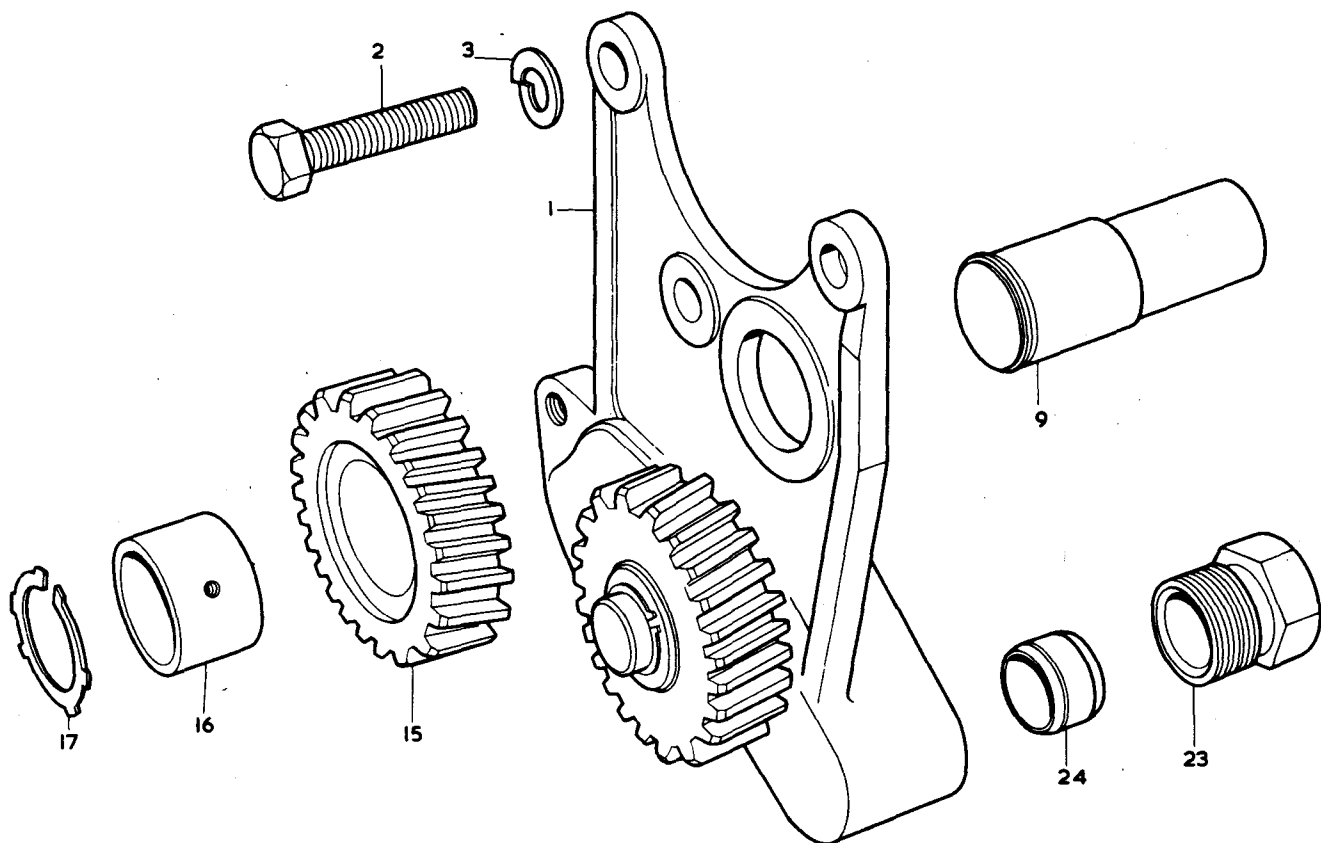
11

CPO 2862



LUBRICATING OIL PUMP
POMPE DE GRAISSAGE DU MOTEUR
OELPUMPE
BOMBA ACEITE DEL MOTOR

CPO 2863



LUBRICATING OIL PUMP
POMPE DE GRAISSAGE DU MOTEUR
OELPUMPE
BOMBA ACEITE DEL MOTOR

13

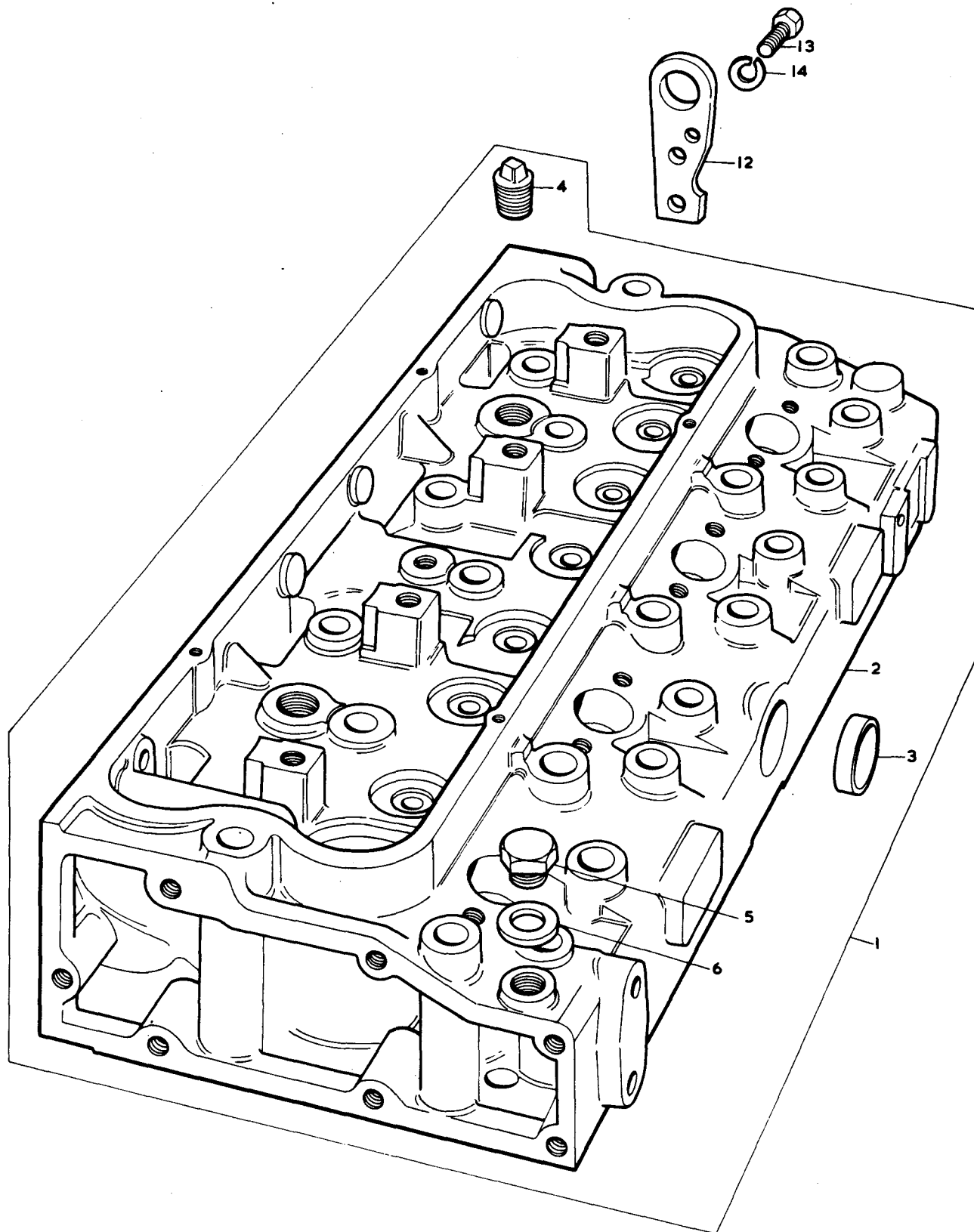
<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG, UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		41314054	PUMP.....	POMPE.....	PUMPE.....	BOMBA.....	1
2		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	3
3		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	3
9		32716117	SHAFT.....	ARBRE.....	WELLE.....	EJE.....	1
15		81773	GEAR.....	PIGNON.....	RITZEL.....	ENGRANAJE.....	1
16		2511432	BUSH.....	BAGUE.....	BUCHSE.....	BUJE.....	1
17		2724402	CIRCLIP.....	CIRCLIP.....	SICHERUNGSRING.....	ARO RETEN.....	1
23		33532121	GLANDNUT.....	ECROU.....	UEBERWURFMUTTER.....	TUERCA.....	1
24		0560244	OLIVE.....	OLIVE.....	SCHNEIDRING.....	OLIVA.....	1

CYLINDER HEAD
CULASSE
ZYLINDERKOPF
CULATA DE CILINDROS

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Designation</u>	<u>No.</u> <u>Req.</u>
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH							
UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH							
GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH							
UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1(A) (E)		86584	HEAD.....	CULASSE.....	ZYLINDERKOPF.....	CULATA.....	1
1(B) (E)		86589	HEAD.....	CULASSE.....	ZYLINDERKOPF.....	CULATA.....	1
2			ORDER ASSEMBLY.....	COMMANDE ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
3		0650563	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL.....	TAPON.....	1
4(C)		2431154	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
5		0650203	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
6		2411157	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
		33125121	INSERT INLET.....				4
		33124425	INSERT EXHAUST.....				4
12		36177111	PLATE.....	PLAQUE DE LEVAGE.....	AUFHAENGELASCHE.....	PLACA.....	2
13		0746453	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
14		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
(D)		32181424	SETSCREW.....				6
(D)		32181425	SETSCREW.....				11
(D)		32181426	SETSCREW.....				2

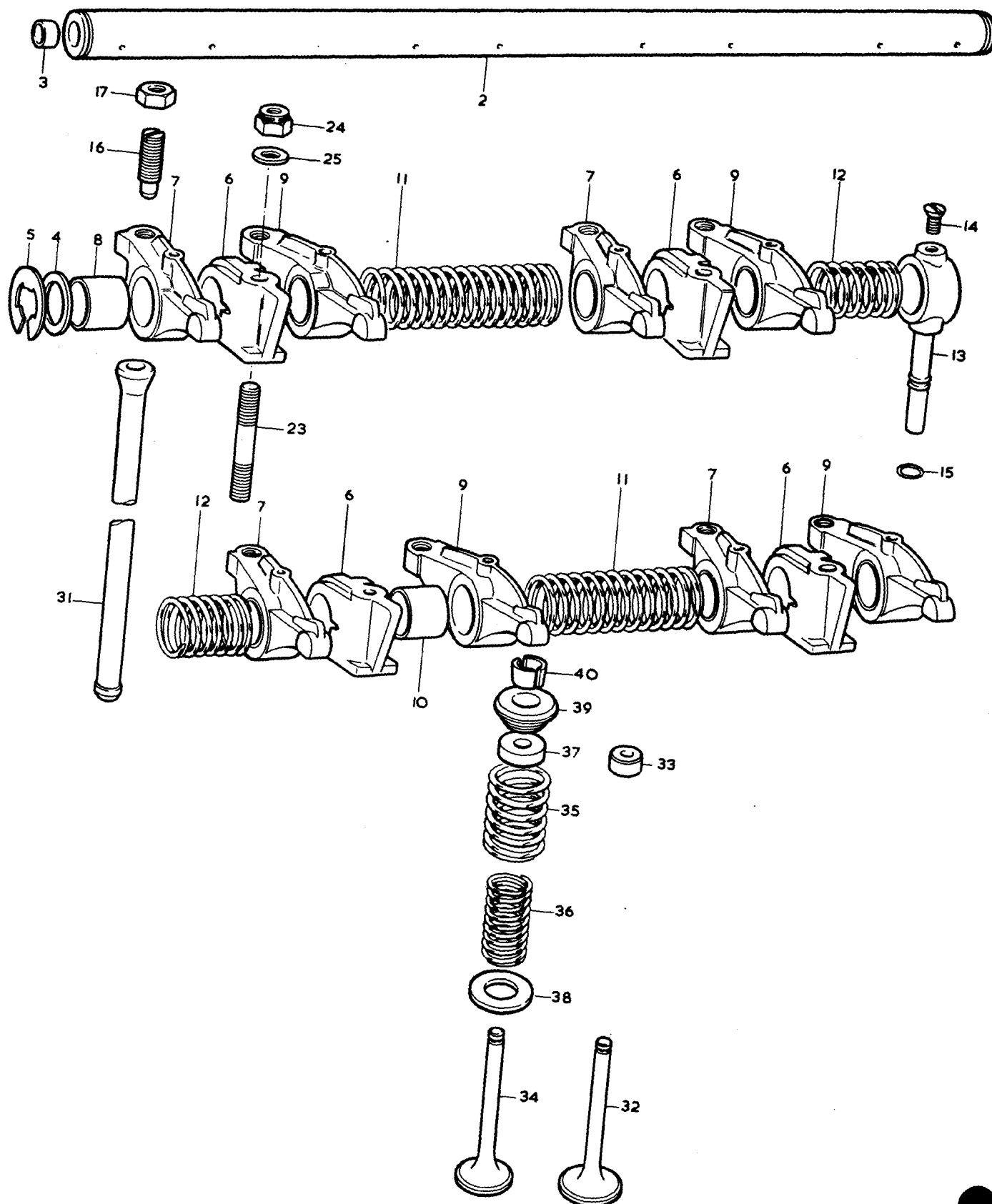
- NOTES:- (A) CODES VA,VB,VC,VD FROM ENG. NO. 236US1271 TO ENG. NO. 236US1270 USE 86584/35511111/33811113
- (B) CODES VE,VF,VG,VH FROM ENG. NO. 236US1271 TO ENG. NO. 236US1270 USE 86589/35511111/33811113
- (C) "2 off" TO ENG. NO. 236US1270
- (D) SETSCREWS HEAD TO CYL. BLOCK FROM ENG. NO. 236US8371
- (E) HEAD ASSEMBLIES INCLUDE VALVES SPRINGS ETC.

CPO 2864



CPO 2865

VALVES AND ROCKER GEAR
VALVES ET BALANCIERS
VENTILE UND KIPPEBELAGGREGAT
VALVULAS Y BALANCINES



VALVES AND ROCKER GEAR
VALVES ET BALANCIERS
VENTILE UND KIPPHEBELAGGREGAT
VALVULAS Y BALANCINES

17

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1(A) (D)		87618	SHAFT.....	AXE DE CULBUTEURS.....	KIPPHEBELWELLE.....	EJE.....	1
1(B) (E)		87820	SHAFT.....	AXE DE CULBUTEURS.....	KIPPHEBELWELLE.....	EJE.....	1
2		83450	SHAFT.....	AXE DE CULBUTEURS.....	KIPPHEBELWELLE.....	EJE.....	1
3		0650507	PLUG.....	BOUCHON.....	VERSCHLUSSDECKEL....	TAPON.....	2
4		33117415	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	2
5		0170151	CIRCLIP.....	CIRCLIP.....	SICHERUNGSRING.....	ARO RETEN.....	2
6		37521331	BRACKET.....	SUPPORT.....	KIPPHEBELBOCK.....	SOPORTE.....	4
7(A)		37371281	LEVER, R.H.....	CULBUTEUR D.....	KIPPHEBEL, R.....	PALANCA L.D.....	4
7(B)		41151415	LEVER, R.H.....	CULBUTEUR D.....	KIPPHEBEL, R.....	PALANCA L.D.....	4
8		2511425	BUSH.....	BAGUE.....	BUCHSE.....	BUJE.....	1
9(A)		37371271	LEVER, L.H.....	CULBUTEUR G.....	KIPPHEBEL, L.....	PALANCA L.I.....	4
9(B)		41151416	LEVER, L.H.....	CULBUTEUR G.....	KIPPHEBEL, L.....	PALANCA L.I.....	4
10		2511425	BUSH.....	BAGUE.....	BUCHSE.....	BUJE.....	1
11		31744123	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	2
12		31743108	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	2
13(F)		35511111	PIPE.....	TUYAU.....	SCHMIEROLEITUNG....	TUBO.....	1
14		0726504	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	1
15(G)		2415801	"O" RING.....	JOINT.....	DICHTRING.....	SELLO "O".....	1
15(H)		33811113	"O" RING.....	JOINT.....	DICHTRING.....	SELLO "O".....	1
16		0720579	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	8
17		0576052	LOCKNUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	8
23		0826628	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	4
24		2211284	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	4
25		0920006	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	4
31		31434307	PUSHROD.....	TIGE.....	STOSSTANGE.....	BOTADOR.....	8
32		31431641	VALVE STD - INLET.....	SOUPAPE D'ADMISSION...	EINLASSVENTIL STD....	VALVULA STD.....	4
32		31431401	VALVE(+)0.003".....	SOUPAPE(+)0.003".....	VENTIL(+)0.003".....	VALVULA(+)0.003".....	X
32		31431402	VALVE(+)0.015".....	SOUPAPE(+)0.015".....	VENTIL(+)0.015".....	VALVULA(+)0.015".....	X
32		31431403	VALVE(+)0.030".....	SOUPAPE(+)0.030".....	VENTIL(+)0.030".....	VALVULA(+)0.030".....	X
33(B)		33817402	DEFLECTOR.....	DEFLECTEUR.....	DICHTRING.....	DEFLECTOR.....	4
34		31431104	VALVE STD - EXHAUST..	SOUPAPE D'ECHAPPEMENT.	AUSLASSVENTIL STD....	VALVULA STD.....	4
34		31431411	VALVE(+)0.003".....	SOUPAPE(+)0.003".....	VENTIL(+)0.003".....	VALVULA(+)0.003".....	X
34		31431412	VALVE(+)0.015".....	SOUPAPE(+)0.015".....	VENTIL(+)0.015".....	VALVULA(+)0.015".....	X
34		31431413	VALVE(+)0.030".....	SOUPAPE(+)0.030".....	VENTIL(+)0.030".....	VALVULA(+)0.030".....	X
35(A)		0780272	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	8
35(B)		31745121	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	8
36(A)		0780273	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	8
36(B)		31744131	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	8
37(A)		33817117	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	8
37(A)		33817118	SEAL(+)0.015".....	JOINT(+)0.015".....	DICHTRING(+)0.015".....	SELLO(+)0.015".....	X
37(A)		33817119	SEAL(+)0.030".....	JOINT(+)0.030".....	DICHTRING(+)0.030".....	SELLO(+)0.030".....	X
38		33123117	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	8
39		33423122	CAP.....	BOUCHON.M.....	VERSCHLUSSDECKEL....	TAPA.....	8
40(C)		33173108	COTTER.....	CLAVETTE.....	VENTILKEGELSTUECK....	RETENES.....	8

NOTES:-
NOTER:-
BEMERKUNGEN:-
NOTAS:-

(A) CODES VA, VB, VC AND VD ONLY
CODES VA, VB, VC ET VD SEULEMENT
NUR CODEN VA, VB, VC UND VD
CODIGOS VA, VB, VC Y VD SOLAMENTE

(B) CODES VE, VF, VG AND VH ONLY
CODES VE, VF, VG ET VH SEULEMENT
NUR CODEN VE, VF, VG UND VH
CODIGOS VE, VF, VG Y VH SOLAMENTE

(C) SERVICED IN MATCHED PAIRS
VENDUE PAR PAIRE
NUR PAARWEISE LIEFERBAR
SUMINISTRADOS EN JUEGO DE PARES COINCIDENTES

(D) FROM ENG. NO. 236US1271 TO ENG. NO. 236US1270 USE 87618/33811113
(E) FROM ENG. NO. 236US1271 TO ENG. NO. 236US1270 USE 87820/33811113
(F) FROM ENG. NO. 236US1271 TO ENG. NO. 236US1270 USE 35511111/33811113
(G) TO ENG. NO. 236US1270
(H) FROM ENG. NO. 236US1271

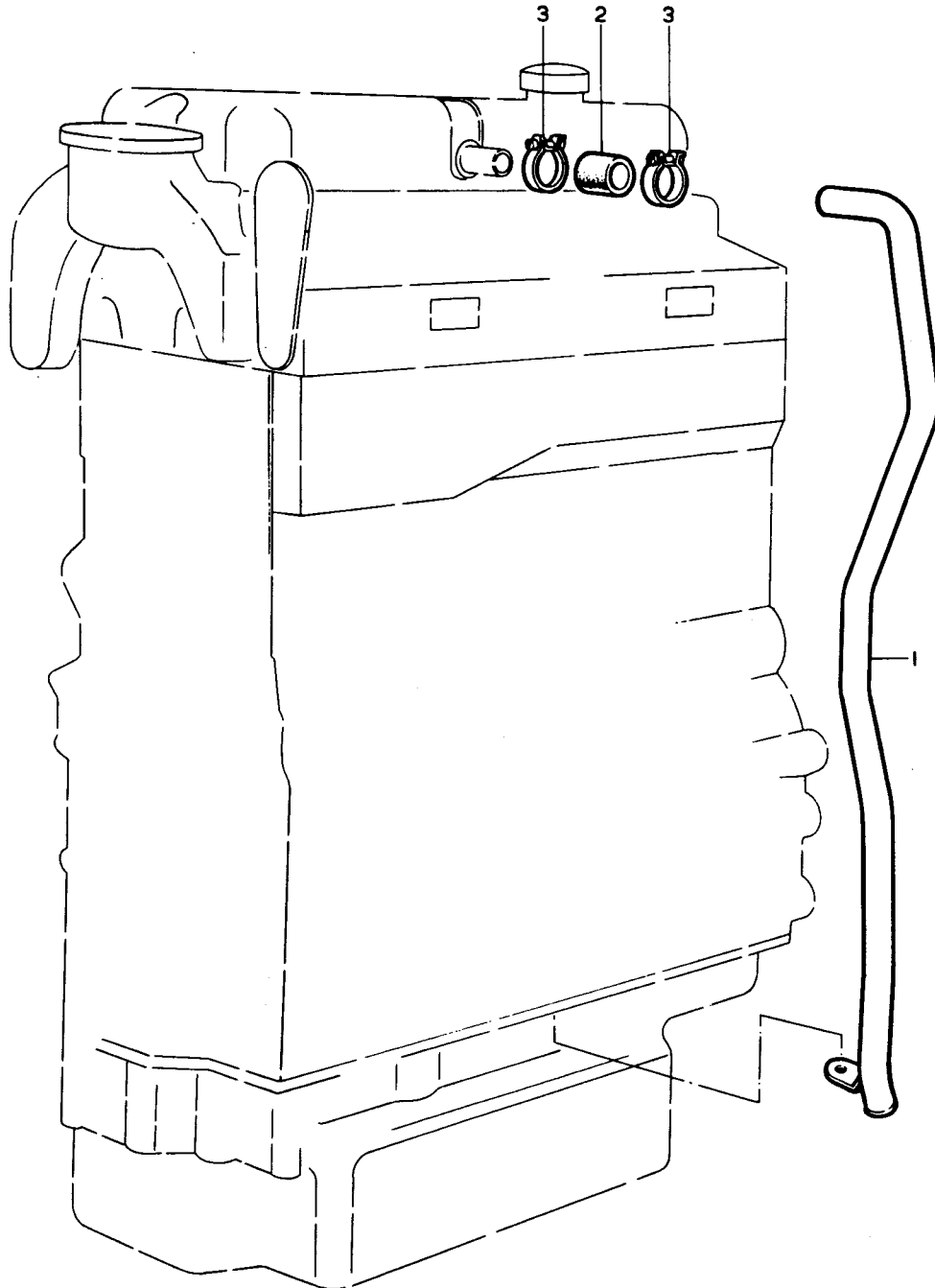
BREATHER PIPE
TUYAU DE RENIFLARD
ENTLUEFTUNGSRÖHR
TUBO RESPIRADERO

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
			BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH				
1		35732545	PIPE.....	TUYAU.....	ENTLUEFTUNGSRÖHR.....	TUBO.....	1
2		0202058	CONNECTION.....	DURIT.....	SCHLAUCH.....	UNION.....	1
3		0180103	CLIP.....	COLLIER.....	SCHLAUCHSCHELLE.....	ABRAZADERA.....	2

BREATHER PIPE
TUYAU DE RENIFLARD
ENTLUEFTUNGSGROHR
TUBO RESPIRADERO

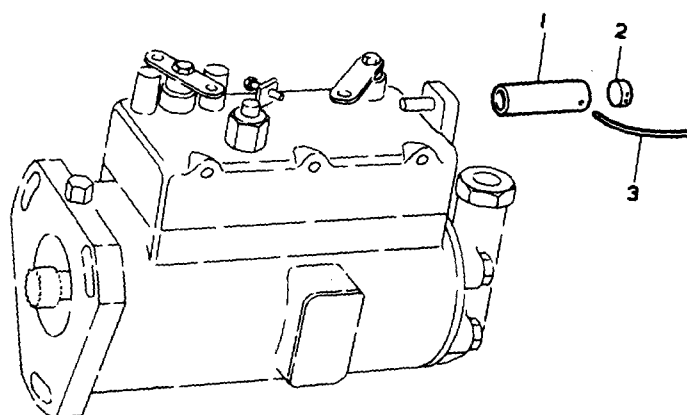
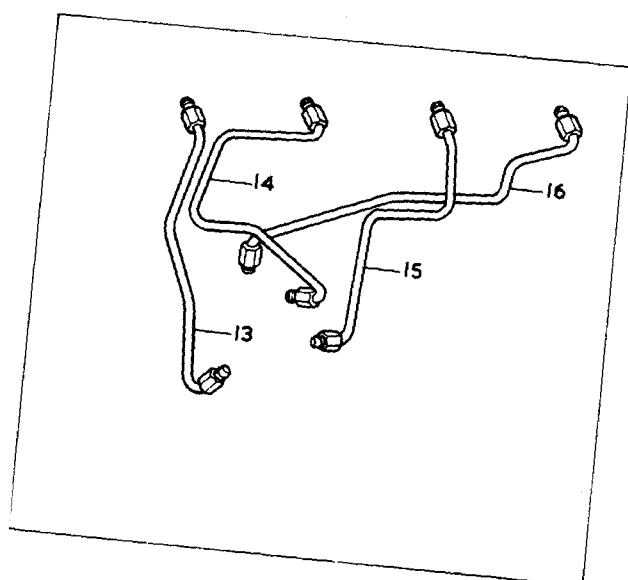
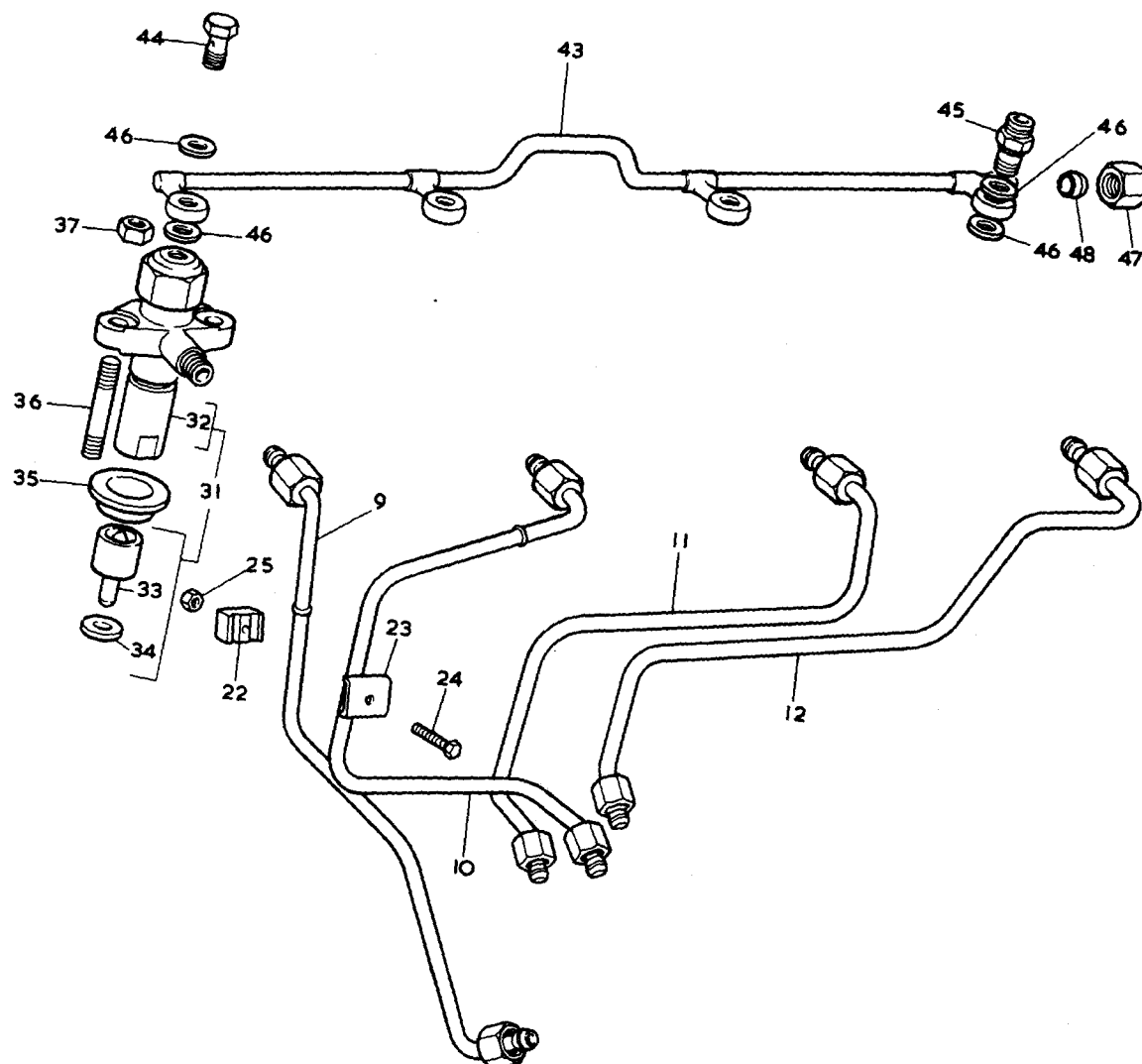
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CPO 2866



CPO 2867

ATOMISERS AND FUEL INJECTION PIPES
 INJECTEURS ET DURITES D'INJECTION
 EINSPRITZDUESEN UND DRUCKLEITUNGEN
 INYECTORES Y TUBOS DE INYECCION



ATOMISERS AND FUEL INJECTION PIPES
INJECTEURS ET DURITES D'INJECTION
EINSPRITZDUESEN UND DRUCKLEITUNGEN
INYECTORES Y TUBOS DE INYECCION

21

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		2644951	SLEEVE.....	MANCHON.....	BUCHSE.....	MANGUITO.....	1
2		31718104	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
3		31718105	WIRE.....	FIL DE FER.....	DRAHT.....	ALAMBRE.....	1
9(A)		35354266	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
10(A)		35354267	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
11(A)		35354293	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
12(A)		35355289	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
13(B)		35355273	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
14(B)		35355274	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
15(B,D)		35354296	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
15(B,E)		35355381	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
16(B,D)		35355276	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
16(B,E)		35355382	PIPE.....	TUYAU.....	DRUCKLEITUNG.....	TUBO.....	1
22		36844116	DAMPER.....	AMORTISSEUR.....	DAEMPFER.....	AMORTIGUADOR.....	4
23		36511123	PLATE.....	PLAQUE.....	PLATTE.....	PLACA.....	4
24(A)		0726260	BOLT.....	BOULON.....	BOLZEN.....	PERNO.....	2
24(B)		0726261	BOLT.....	BOULON.....	BOLZEN.....	PERNO.....	2
25		2211401	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
31(F)		2645589	ATOMISER.....	INJECTEUR.....	EINSPRITZDUESE.....	INJECTOR.....	4
31(G,H)		2645601	ATOMISER.....	INJECTEUR.....	EINSPRITZDUESE.....	INJECTOR.....	4
32(J)		2646466	HOLDER.....	PORTE INJECTEUR.....	DUESENHALTER.....	PORTA TOBERA.....	1
32(K)		2646460	HOLDER.....	PORTE INJECTEUR.....	DUESENHALTER.....	PORTA TOBERA.....	1
33(J)		2646683	NOZZLE.....	INJECTEUR.....	EINSPRITZDUESE.....	TOBERA.....	1
33(K)		2646690	NOZZLE.....	INJECTEUR.....	EINSPRITZDUESE.....	TOBERA.....	1
34		0921173	WASHER.....	RONDELLE.....	DICHTRING.....	ARANDELA.....	1
35		33817114	SHIELD.....	PROTEGE.....	STAUBRING.....	DEFENSA.....	4
36		0826280	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	8
37		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	8
43		35587338	PIPE.....	TUYAU.....	LECKOELLEITUNG.....	TUBO.....	1
44		0095315	BOLT.....	BOULON.....	HOHLSCHRAUBE.....	TORNILLO BANJO.....	3
45		0201526	BOLT.....	BOULON.....	HOHLSCHRAUBE.....	TORNILLO BANJO.....	1
46		0921176	WASHER.....	RONDELLE.....	DICHTRING.....	ARANDELA.....	8
47		0576111	NUT.....	ECROU.....	UEBERWURFMUTTER.....	TUERCA.....	1
48		0566002	OLIVE.....	OLIVE.....	SCHNEIDRING.....	OLIVA.....	1

NOTES:-
NOTER:-
BEMERKUNGEN:-
NOTAS:-

(A) CODES VA, VB, VC AND VD ONLY
CODES VA, VB, VC ET VD SEULEMENT
NUR CODEN VA, VB, VC UND VD
CODIGOS VA, VB, VC Y VD SOLAMENTE

(B) CODES VE, VF, VG AND VH ONLY
CODES VE, VF, VG ET VH SEULEMENT
NUR CODEN VE, VF, VG UND VH
CODIGOS VE, VF, VG Y VH SOLAMENTE

(C) COMPONENT PARTS SUPPLIED BY C.A.V.
PARTIES COMPOSANTES FOURNIES PAR C.A.V.
BESTELLE EINZELTEILE BEI C.A.V.
PIEZAS COMPONENTS SUMINISTRADOS POR C.A.V.

(D) TO ENG. NO. 236US260

(E) FROM ENG. NO. 236US261

(F) CODES VE, VF, VG, VH FROM ENG. NO. 236US261

(G) CODES VE, VF, VG, VH TO ENG. NO. 236US260

(H) CODES VA, VB, VC AND VD

(J) USED WITH 2645589

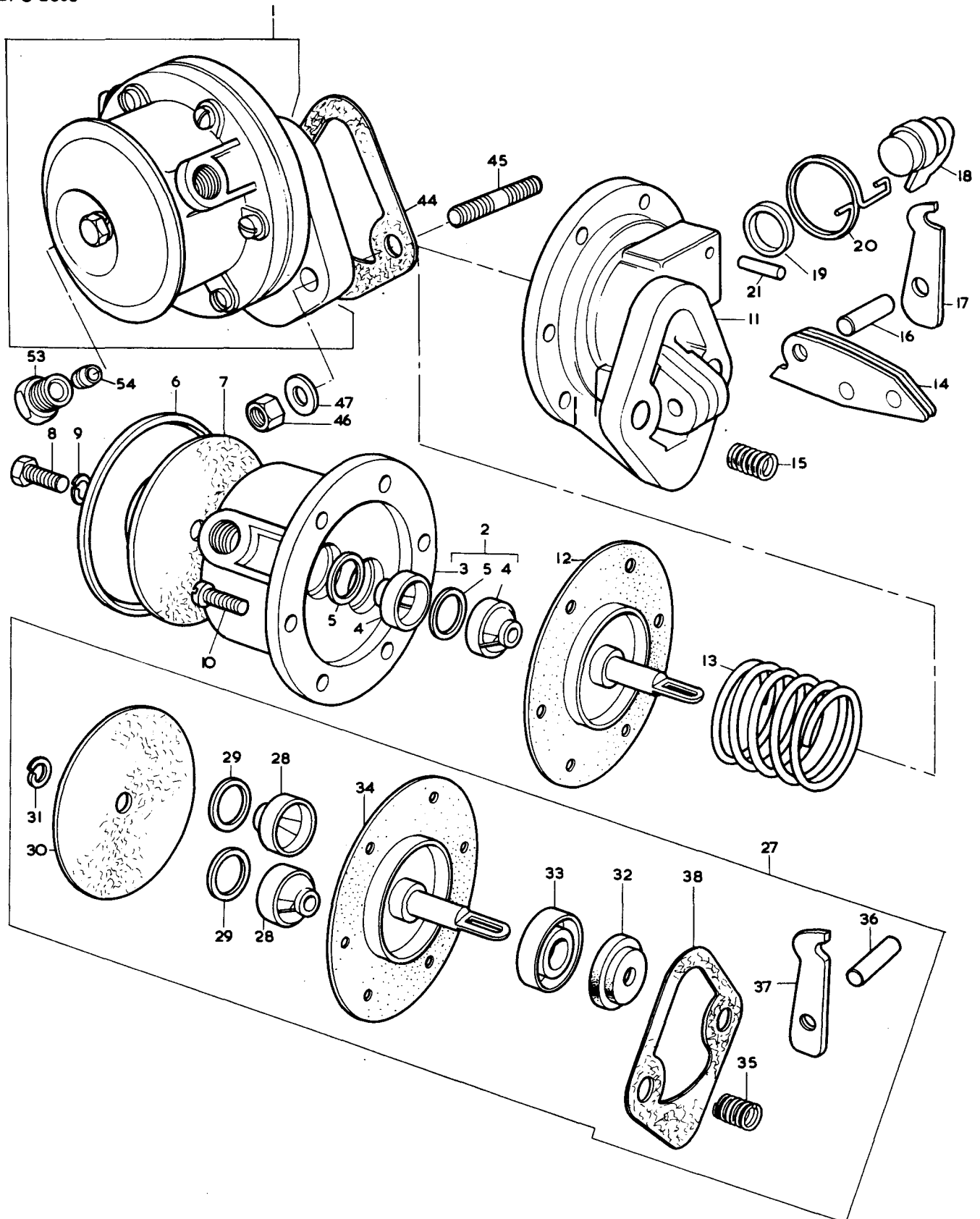
(K) USED WITH 2645601

FUEL OIL LIFT PUMP
POMPE D' ALIMENTATION
KRAFTSTOFFOERDERPUMPE
BOMBA DE ALIMENTACION

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
BASE UNIT CODES VA, VB, VC, VD, VE, VF, VG AND VH UNITES DE BASE CODES VA, VB, VC, VD, VE, VF, VG ET VH GRUNDEINHEITEN CODEN VA, VB, VC, VD, VE, VF, VG UND VH UNIDADES BASICAS CODIGOS VA, VB, VC, VD, VE, VF, VG Y VH							
1		2641467	PUMP.....	POMPE.....	PUMPE.....	BOMBA.....	1
2		26410028	HEADCASTING.....	CARTER.....	GEHAUSE.....	CARTER.....	1
3			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL	PEDIR CONJUNTO.....	1
4		32517	VALVE.....	VALVE.....	VENTIL.....	VALVULA.....	2
5		0490627	JOINT.....	JOINT.....	DICHTRING.....	JUNTA.....	2
6		26410026	COVER.....	COUVERCLE.....	DECKEL.....	TAPA.....	1
7		26410027	DIAPHRAGM.....	MEMBRANE.....	MEMBRANE.....	DIAFRAGMA.....	1
8		26410048	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	1
9		26410025	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
10		0720721	SCREW.....	VIS.....	SCHRAUBE.....	TORNILLO.....	6
11		26410077	BODY.....	CORPS.....	GEHAUSE.....	CUERPO.....	1
12		26410088	DIAPHRAGM.....	MEMBRANE.....	MEMBRANE.....	DIAFRAGMA.....	1
13		26410001	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
14		26410031	ARM.....	BRAS.....	KIPPHEBEL.....	BRASO.....	1
15		0780241	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
16		26410032	PIN.....	GOUPILLE.....	WELLE.....	PASADOR.....	1
17		26410074	LEVER.....	LEVIER.....	BETAETIGUNGSHABEL...	PALANCA.....	1
18		26410034	PRIMER.....	AMORCEUR.....	VORPUMPHEBEL.....	CEBADOR.....	1
19		0640102	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
20		26410035	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
21		26410036	PIN.....	GOUPILLE.....	WELLE.....	PASADOR.....	1
27		26410050	KIT.....	JEU.....	REPARATURSAETZ.....	JUEGO.....	X
28		32517	VALVE.....	VALVE.....	VENTIL.....	VALVULA.....	2
29		0490627	JOINT.....	JOINT.....	DICHTRING.....	JUNTA.....	2
30		26410027	DIAPHRAGM.....	MEMBRANE.....	MEMBRANE.....	DIAFRAGMA.....	1
31		26410025	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
32(A)		0730128	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
33(A)		0997129	RETAINER.....	CARTER DE JOINT.....	DICHTRINGGEHAUSE...	RETEN.....	1
34		26410088	DIAPHRAGM.....	MEMBRANE.....	MEMBRANE.....	DIAFRAGMA.....	1
35		0780241	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
36		26410032	PIN.....	GOUPILLE.....	BOLZEN.....	PASADOR.....	1
37		26410074	LEVER.....	LEVIER.....	BETAETIGUNGSHABEL...	PALANCA.....	1
38		36862166	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
44		36862166	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
45		0826208	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
46		33221115	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
47		33114412	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	2
53		0571346	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
54		0566004	OLIVE.....	OLIVE.....	SCHNEIDRING.....	OLIVA.....	1

NOTES:- (A) NOT REQUIRED ON THIS APPLICATION
 NOTER:- NON NECESSAIRE DANS CE CAS
 BEMERKUNGEN:- FUER DIESE AUSFUEHRUNG NICHT ERFORDERLICH
 NOTAS:- EN ESTE CASO NO ES NECESARIO

CPO 2868



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<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Description</u>	<u>Qty.</u>
		BASE UNITS - CODES VA, VB, VC, VD, VE, VF, VG AND VH				
	89267	JOINTS & GASKETS SET - TOP OVERHAUL				X
	36812334	GASKET CYL. HEAD				1
	33811113	SEAL ROCKER SHAFT				1
	2415801	SEAL ROCKER SHAFT				1
	0921173	WASHER ATOMISER SEATING				4
	36851409	JOINT CYL. HEAD REAR END COVER				1
	36853514	JOINT CYL. HEAD TO WATER OUTLET BODY				1
	36835425	JOINT WATER OUTLET BODY TO OUTLET CONNECTION				1
	36862131	JOINT CYL. HEAD TO MANIFOLD INDUCTION - REAR				1
	36862132	JOINT CYL. HEAD TO MANIFOLD INDUCTION - FRONT				1
	36862133	JOINT CYL. HEAD TO MANIFOLD INDUCTION - CENTRE				1
	36811122	JOINT CYL. HEAD COVER				1
	33817117	SEAL VALVES				8
	36862134	JOINT EXHAUST MANIFOLD				2
	36822111	GASKET EXHAUST MANIFOLD				1
	0490301	GASKET EXHAUST MANIFOLD OUTLET				1
	33415135	RING EXHAUST MANIFOLD				1
	86904	JOINTS & GASKETS SET - BOTTOM OVERHAUL				X
	32811408	JOINT BRIDGE PIECE				2
	36817136	JOINT REAR END OIL SEAL				1
	36814123	JOINT TIMING CASE TO BLOCK				1
	36813138	JOINT TIMING CASE FRONT COVER				1
	36825107	JOINT TIMING CASE FRONT COVER TO INSP. COVER				1
	36862166	JOINT LIFT PUMP				1
	36815705	JOINT LUB. OIL SUMP				1
	36815708	JOINT LUB. OIL SUMP				1
	0490007	JOINT LUB. OIL FILLER TO SUMP				1
	36832122	JOINT SUCTION PIPE FLANGE TO PUMP BODY				1
	36847327	JOINT LUB. OIL STRAINER COVER TO SUMP				1
	0490355	JOINT LUB. OIL DELIVERY PIPE				1
	36862517	JOINT CYL. BLOCK TO LUB. OIL FILTER ADAPTOR				1
	36862522	JOINT CYL. BLOCK TO LUB. OIL FILTER ADAPTOR				1
	36861734	JOINT LUB. OIL FILTER ADAPTOR TO FILTER				1
	36834123	JOINT CYL. BLOCK TO LUB. OIL FILTER FLANGE				1
	36866428	JOINT TIMING CASE TO LUB. OIL FILLER PLATE				1
	0490685	JOINT FUEL PUMP TO DRIVING GEAR HUB CARRIER				1
	36861731	JOINT TIMING CASE TO HYD. PUMP DRIVE ADAPTOR				1
	36835412	JOINT HYD. PUMP DRIVE ADAPTOR TO HYD. PUMP				1
	36865511	JOINT TIMING CASE TO EXHAUSTER				1
	36835414	JOINT ADAPTOR TO HYD. PUMP				1
	36866416	JOINT ADAPTOR PLATE TO EXHAUSTER				1
	36867142	JOINT COMPRESSOR TO DRIVE HSG.				1
	0490373	JOINT HYD. PUMP TO ADAPTOR PLATE				1
	36867137	JOINT CYL. BLOCK TO WATER PUMP BODY				1
	36867138	JOINT CYL. BLOCK TO WATER PUMP BODY				1
	36862523	JOINT BLANKING PLATE TO CYL. BLOCK				1

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Description</u>	<u>Qty.</u>
BASE UNITS - CODES VA, VB, VC, VD, VE, VF, VG AND VH							
89269			JOINTS AND GASKETS - COMPLETE SET				X
36812334			GASKET CYL. HEAD				1
32811408			JOINT BRIDGE PIECE				2
36817136			JOINT REAR END OIL SEAL				1
36814123			JOINT TIMING CASE TO BLOCK				1
36813138			JOINT TIMING CASE FRONT COVER				1
36825107			JOINT TIMING CASE FRONT COVER TO INSP. COVER				1
0921173			WASHER ATOMISER SEATING				4
36862166			JOINT LIFT PUMP				1
36815705			JOINT LUB. OIL SUMP				1
36815708			JOINT LUB. OIL SUMP				1
0490007			JOINT LUB. OIL FILLER TO SUMP				1
36832122			JOINT SUCTION PIPE FLANGE TO BODY				1
36847327			JOINT LUB. OIL STRAINER				1
0490355			JOINT LUB. OIL DELIVERY PIPE				1
36862517			JOINT CYL. BLOCK TO LUB. OIL FILTER ADAPTOR				1
36862522			JOINT CYL. BLOCK TO LUB. OIL FILTER ADAPTOR				1
36861734			JOINT LUB. OIL FILTER ADAPTOR TO FILTER				1
36862523			JOINT BLANKING PLATE TO CYL. BLOCK				1
36834123			JOINT CYL. BLOCK TO LUB. OIL FILLER FLANGE				1
36866428			JOINT TIMING CASE TO LUB. OIL FILLER PLATE				1
36851409			JOINT CYL. HEAD REAR END COVER				1
36853514			JOINT CYL. HEAD TO WATER OUTLET BODY				1
36835425			JOINT WATER OUTLET BODY TO OUTLET CONNECTION				1
36862131			JOINT CYL. HEAD TO MANIFOLD INDUCTION - REAR				1
36862132			JOINT CYL. HEAD TO MANIFOLD INDUCTION - FRONT				1
36862133			JOINT CYL. HEAD TO MANIFOLD INDUCTION - CENTRE				1
36811122			JOINT CYL. HEAD COVER				1
0490685			JOINT FUEL PUMP				1
36862134			JOINT EXHAUST MANIFOLD				2
36822111			GASKET EXHAUST MANIFOLD				1
0490301			GASKET EXHAUST MANIFOLD OUTLET				1
33415135			RING EXHAUST MANIFOLD				1
36861731			JOINT TIMING CASE TO HYD. PUMP DRIVE ADAPTOR				1
36835412			JOINT HYD. PUMP DRIVE				1
36865511			JOINT TIMING CASE TO EXHAUSTER				1
36835414			JOINT ADAPTOR TO HYD. PUMP				1
36866416			JOINT ADAPTOR PLATE EXHAUSTER				1
36867142			JOINT COMPRESSOR				1
0490373			JOINT HYD. PUMP TO ADAPTOR PLATE				1
36867137			JOINT CYL. BLOCK TO WATER PUMP BODY				1
36867138			JOINT CYL. BLOCK TO WATER PUMP BODY				1
33811113			SEAL ROCKER SHAFT				1
2415801			SEAL ROCKER SHAFT				1
33817117			SEAL INLET & EXHAUST VALVES				8

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LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
			CODE B.00				
			CODE B.00				
			CODE B.00				
			CODIGO B.00				
1		37171653	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
2		0650540	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	2
8		36815705	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
9		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	12
10		0096240	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	6
11		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	18
12		0826214	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
13		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
14		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
20		31787435	DIPSTICK.....	JAUGE.....	OELMESSTAB.....	VARILLA NIVEL.....	1
21			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
22		33812108	WASHER.....	JOINT.....	DICHTRING.....	SELLO.....	1
23		35772624	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
24			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
25		33533103	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
31		37725443	STRAINER.....	CREPINE.....	OELSIEB.....	COLADOR.....	1
32(C)		33157521	SHROUD.....	COUVERCLE.....	ANSAUGKORB.....	GUARDERA.....	1
33(A)		35726106	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
33(B)		35727508	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
34(C)		36535412	CLIP.....	ATTACHE.....	SHELLE.....	SUJETADOR.....	1
34(D)		36535415	CLIP.....	ATTACHE.....	SHELLE.....	SUJETADOR.....	1
35(C)		0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
35(D)		0746253	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(D)		0920003	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
36		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
37		0746052	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
38		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(D)		0920002	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
39		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
45(C)		36174115	FLANGE.....	FLASQUE.....	FLANSCH.....	PESTANA.....	1
46(C)		0640144	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
(D)		36832122	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
47		0746254	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
48		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

NOTES:-

(A) TO ENG. NO. 236US3837 USE 37527508/36832122/36535415/0746253/0920003/0920002

(B) FROM ENG. NO. 236US3838

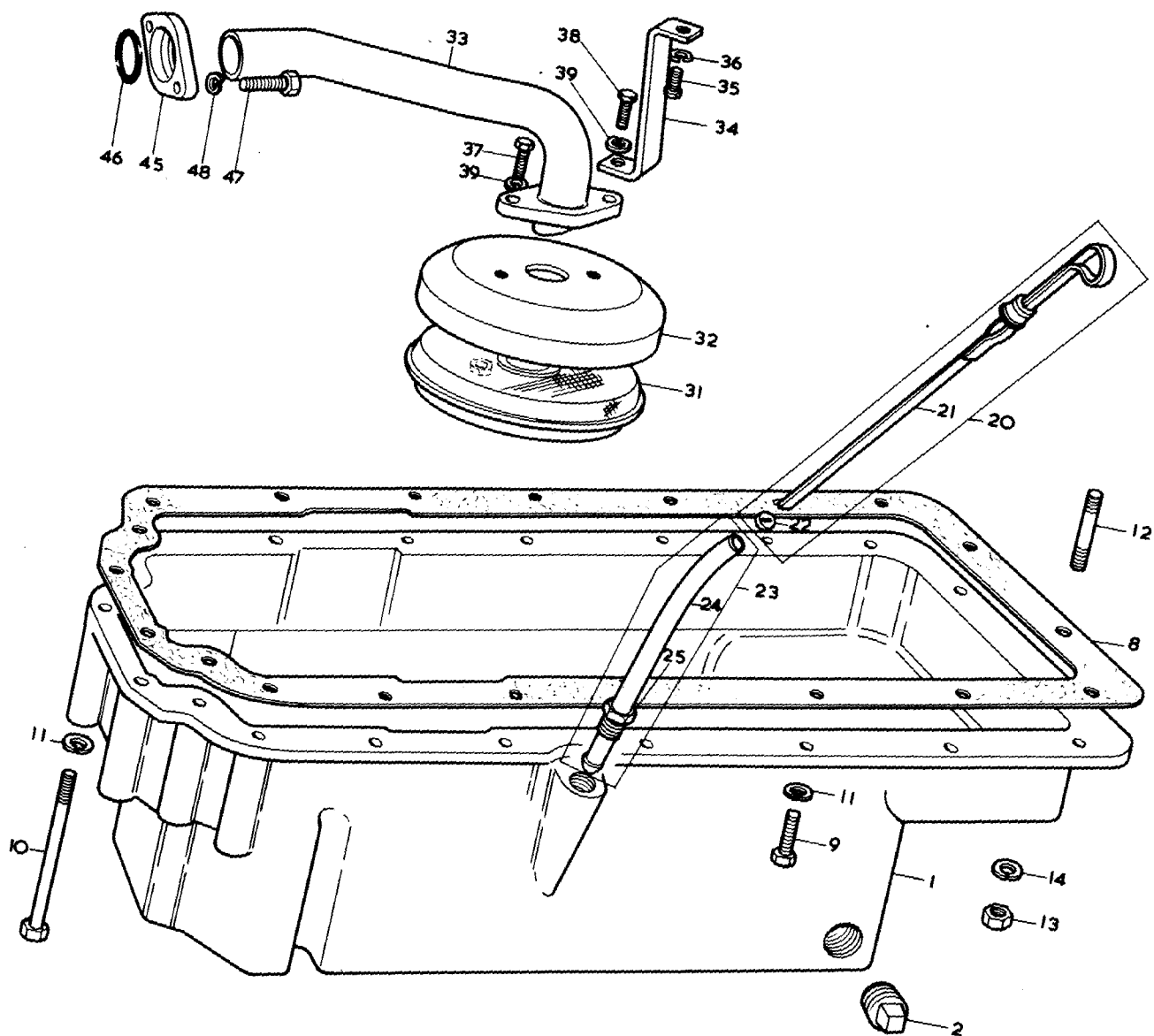
(C) USED ONLY WITH 35726106

(D) USED ONLY WITH 35727508

CPO 2869

LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

27



This technical drawing is an exploded view of a mechanical assembly. The main component is a large rectangular housing (1) with a flange (8) and a base. Various bolts (9, 10, 11, 12, 13, 14) are shown securing the housing. A central shaft (21) is shown with a pulley (23) and a coupling (24). A spring (45) is shown above a cylindrical component (44). A bracket (46) is shown with a pin (53) and a nut (52). A small plate (54) is shown near the top. A long rod (34) with a handle (35) and a pin (36) is shown. A small pin (37) and a spring (38) are also shown. A small plate (20) is shown near the bottom left. A small pin (26) and a small pin (27) are shown near the bottom left. A small pin (28) is shown near the bottom left. A small pin (29) is shown near the bottom left. A small pin (30) is shown near the bottom left. A small pin (31) is shown near the bottom left. A small pin (32) is shown near the bottom left. A small pin (33) is shown near the bottom left. A small pin (34) is shown near the bottom left. A small pin (35) is shown near the bottom left. A small pin (36) is shown near the bottom left. A small pin (37) is shown near the bottom left. A small pin (38) is shown near the bottom left. A small pin (39) is shown near the bottom left. A small pin (40) is shown near the bottom left. A small pin (41) is shown near the bottom left. A small pin (42) is shown near the bottom left. A small pin (43) is shown near the bottom left. A small pin (44) is shown near the bottom left. A small pin (45) is shown near the bottom left. A small pin (46) is shown near the bottom left. A small pin (47) is shown near the bottom left. A small pin (48) is shown near the bottom left. A small pin (49) is shown near the bottom left. A small pin (50) is shown near the bottom left. A small pin (51) is shown near the bottom left. A small pin (52) is shown near the bottom left. A small pin (53) is shown near the bottom left. A small pin (54) is shown near the bottom left. A small pin (55) is shown near the bottom left. A small pin (56) is shown near the bottom left.

LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

29

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
CODES B.01 AND B.02 CODES B.01 ET B.02 CODEN B.01 UND B.02 CODIGOS B.01 Y B.02							
1		37171851	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
2		0650540	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
8		36815705	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
9		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	12
10		0096240	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	6
11		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	18
12		0826214	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
13		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
14		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
20(A)		37481106	PLATE.....	PLAQUE.....	DRUCKPLATTE.....	PLACA.....	1
21(B)		0999559	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
22(B)		2487845	CAP.....	CHAPEAU.....	VERSCHLUSSDECKEL.....	TAPA.....	1
23			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
24		24870002	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
25		0490007	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
26		0826203	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	4
27		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	4
28		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	4
34		31786433	DIPSTICK.....	JAUGE.....	OELMESSTAB.....	VARILLA NIVEL.....	1
35			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
36		33812108	WASHER.....	JOINT.....	DICHTUNG.....	SELLO.....	1
37		33435122	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
38		33533103	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
44		37725437	STRAINER.....	CREPINE.....	OELSIEB.....	COLADOR.....	1
45		31747109	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
46		35737186	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
52		0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
53		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
54		36832122	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
55		0746254	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
56		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

NOTES:- (A) CODE B.01 ONLY
 NOTER:- CODE B.01 SEULEMENT
 BEMERKUNGEN:- NUR CODE B.01
 NOTAS:- CODIGO B.01 SOLAMENTE
 (B) CODE B.02 ONLY
 CODE B.02 SEULEMENT
 NUR CODE B.02
 CODIGO B.02 SOLAMENTE

LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
			CODE B.03 CODE B.03 CODE B.03 CODIGO B.03				
1		37171325	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
2		0650540	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	2
(A)		0726403	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
8		36815705	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
9		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	12
10		0096215	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	6
11		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	18
12		0826214	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
13		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
14		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
20		31788348	DIPSTICK.....	JAUGE.....	OELMESSTAB.....	VARILLA NIVEL.....	1
21			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
22		33812108	WASHER.....	JOINT.....	DICHTRING.....	SELLO.....	1
23		34273329	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
24		33533103	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
30		37725443	STRAINER.....	CREPINE.....	OELSIEB.....	COLADOR.....	1
31(D)		33157521	SHROUD.....	COUVERCLE.....	ANSAUGKORB.....	GUARDERA.....	1
32(B)		35726108	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
32(C)		35727511	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
33(D)		36535412	CLIP.....	ATTACHE.....	SHELLE.....	SUJETADOR.....	1
33(E)		36535415	CLIP.....	ATTACHE.....	SHELLE.....	SUJETADOR.....	1
39(D)		0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
39(E)		0746253	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(E)		0920003	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
40		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
41		0746052	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
42		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(E)		0920002	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
43		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
49(D)		36174115	FLANGE.....	FLASQUE.....	FLANSCH.....	PESTANA.....	1
50(D)		0640144	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
(E)		36832122	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
51		0746254	SETSCREW.....	SETSCREW.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
52		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

NOTES:-

(A) ALTERNATIVE DIPSTICK POSITION

(B) TO ENG. NO. 236US3837 USE 37527511/36832122/36535415/0746253/0920002/0920003

(C) FROM ENG. NO. 236US3838

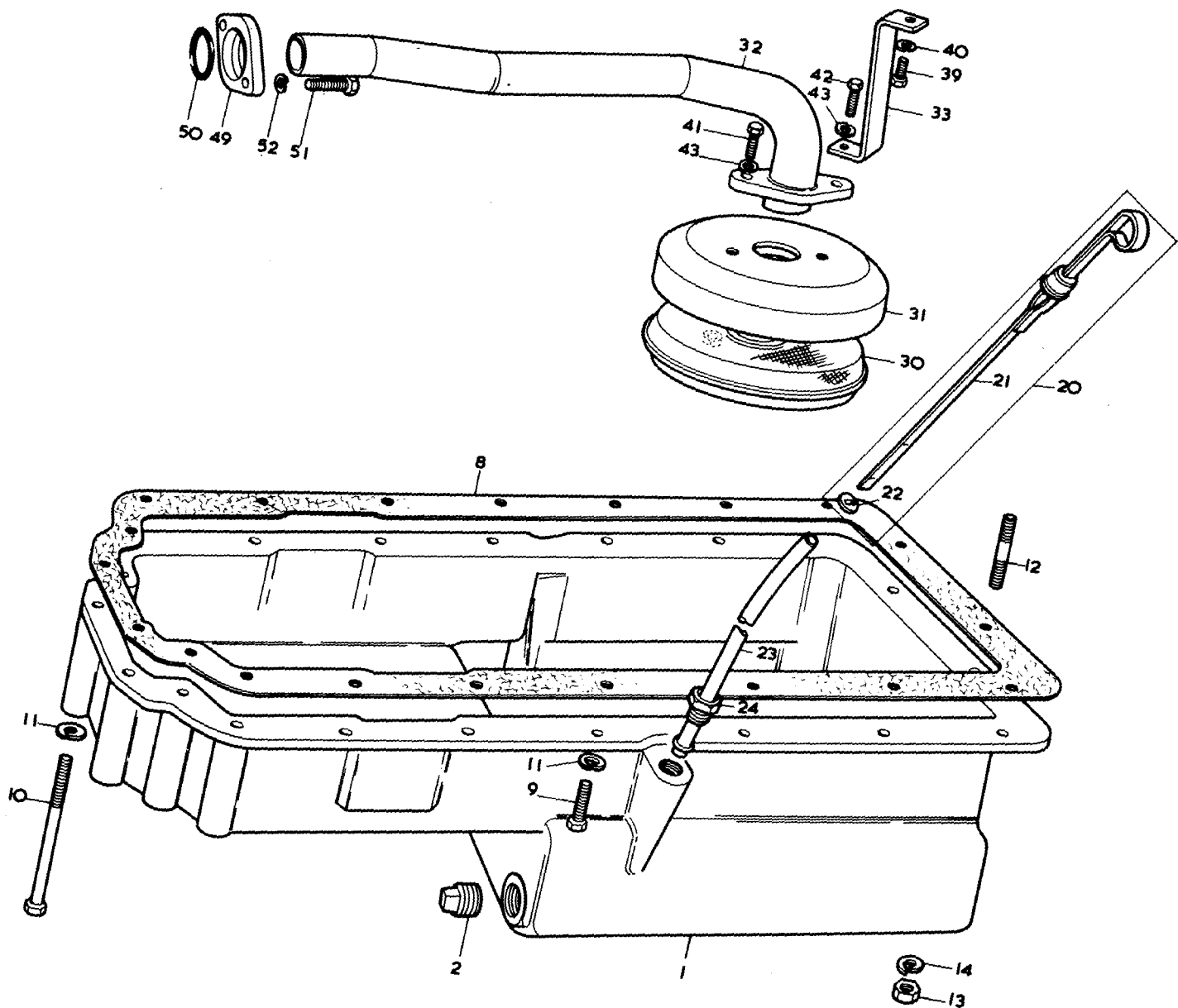
(D) USED ONLY WITH 35726108

(E) USED ONLY WITH 35727511

CPO 2871

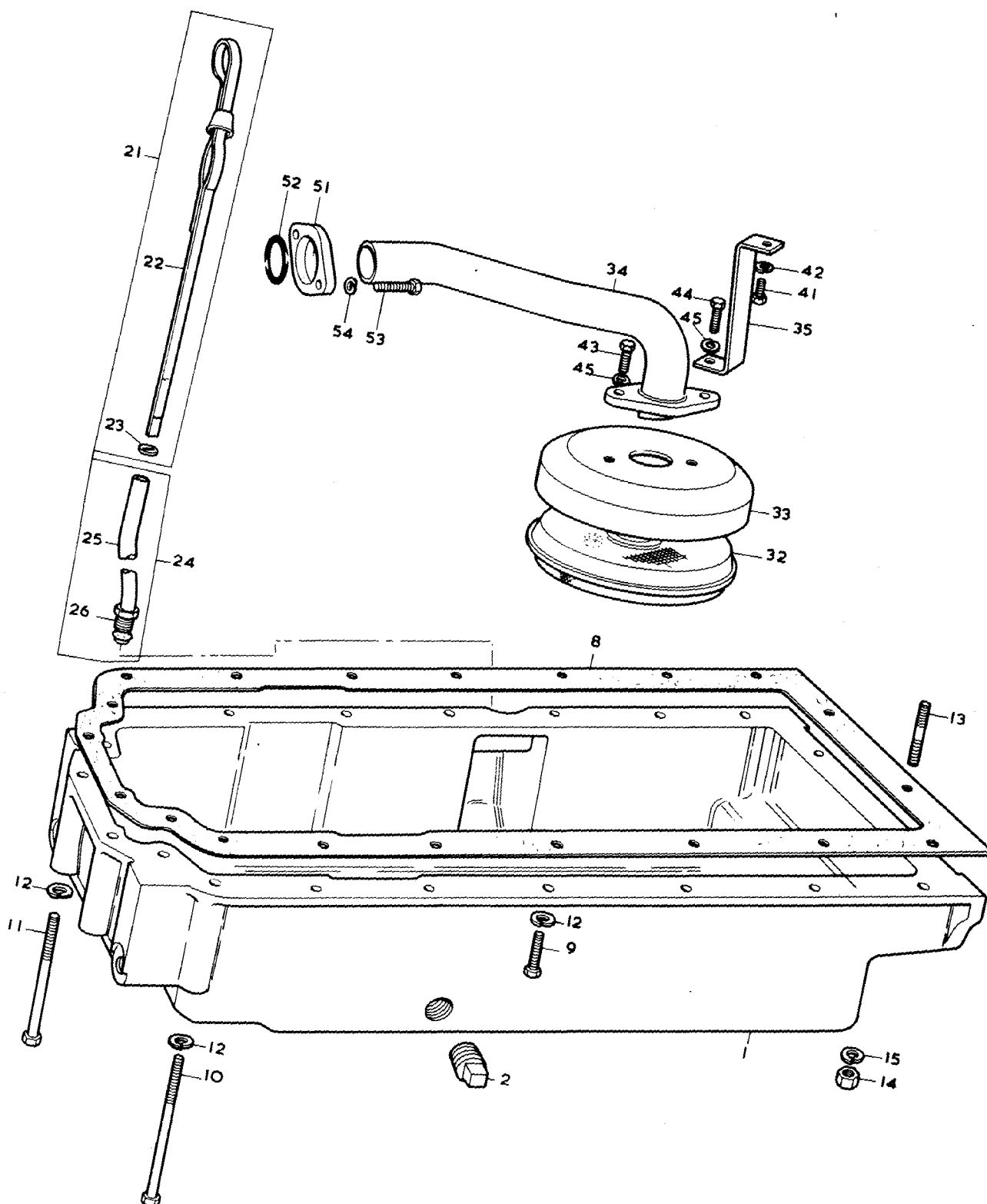
LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

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CPO 2872

LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE



LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

33

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
		CODE B.04 CODE B.04 CODE B.04 CODIGO B.04				
1(A)	37173321	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
1	37173091	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
2	0650540	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
8	36815708	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
9(B)	0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	10
10(C)	0096245	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	6
11(D)	0096243	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
11(E)	0096241	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
12	0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	18
13	32517128	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
14	0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
15	0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
21	31788334	DIPSTICK.....	JAUGE.....	OELMESSTAB.....	VARILLA NIVEL.....	1
22		ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
23	33812108	WASHER.....	JOINT.....	DICHTRING.....	SELLO.....	1
24	35772655	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
25		ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
26	33533103	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
32	37725443	STRAINER.....	CREPINE.....	OELSIEB.....	COLADOR.....	1
33(H)	33157521	SHROUD.....	COUVERCLE.....	ANSAUCKORB.....	GUARDERA.....	1
34(F)	35726106	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
34(G)	35727508	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
35(H)	36535412	CLIP.....	ATTACHE.....	SCHELLE.....	SUJETADOR.....	1
35(J)	36535415	CLIP.....	ATTACHE.....	SCHELLE.....	SUJETADOR.....	1
41(H)	0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
41(J)	0746253	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(J)	0920003	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
42	0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
43	0746052	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
44	0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(J)	0920002	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
45	0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
51(H)	36174115	FLANGE.....	FLASQUE.....	FLANSCH.....	PESTANA.....	1
52(H)	0640144	SEAL.....	JOINT.....	DICHTRING.....	SELLO.....	1
(J)	36832122	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
53	0746254	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
54	0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

NOTES:-

- (A) Use 37173091/0096241/0746255/0096245
- (B) "12 OFF" USED WITH 37173321
- (C) "4 OFF" USED WITH 37173321
- (D) USED WITH 37173321
- (E) USED WITH 37173091
- (F) TO ENG. NO. 236US3837 USE 37527508/36832122/36535415/0746253/0920003/0920002
- (G) FROM ENG. NO. 236US3838
- (H) USED ONLY WITH 35726106
- (J) USED ONLY WITH 35727508

LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

Ref. No.	Note	Part No.	Description	Designation	Benennung	Description	No. Req.
			CODE B.05 CODE B.05 CODE B.05 CODIGO B.05				
1		37175352	SUMP.....	CARTER D'HUILE.....	OELWANNE.....	CARTER.....	1
2		0650540	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE.....	TAPON.....	1
8		36815705	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
9		0746255	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	12
10		0096243	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	6
11		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	18
12		0826214	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
13		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
14		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
20		31787421	DIPSTICK.....	JAUGE.....	OELMESSTAB.....	VARILLA NIVEL.....	1
21			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
22		33812108	WASHER.....	JOINT.....	DICHTUNG.....	SELLO.....	1
23		35772659	TUBE.....	TUBE.....	ROHR.....	TUBO.....	1
24			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE.....	BESTELLE KOMPLETTEIL.....	PEDIR CONJUNTO.....	1
25		33533103	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	1
31		37727417	STRAINER.....	CREPINE.....	OELSIEB.....	COLADOR.....	1
32		36847327	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
33		0826249	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	10
34		0576002	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	10
35		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	10
41(A)		35736164	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
41(B)		35745815	PIPE.....	TUBE.....	ANSAUGROHR.....	TUBO.....	1
42		0746252	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
(D)		0920003	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
43		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
49(C)		36174115	FLANGE.....	FLASQUE.....	FLANSCH.....	PESTANA.....	1
50(C)		0640144	SEAL.....	JOINT.....	DICHTUNG.....	SELLO.....	1
(D)		36832122	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
51		0746254	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
52		0920053	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

NOTES:-

(A) TO ENG. NO. 236US3837 USE 35745815/36832122/0920003

(B) FROM ENG. NO. 236US3838

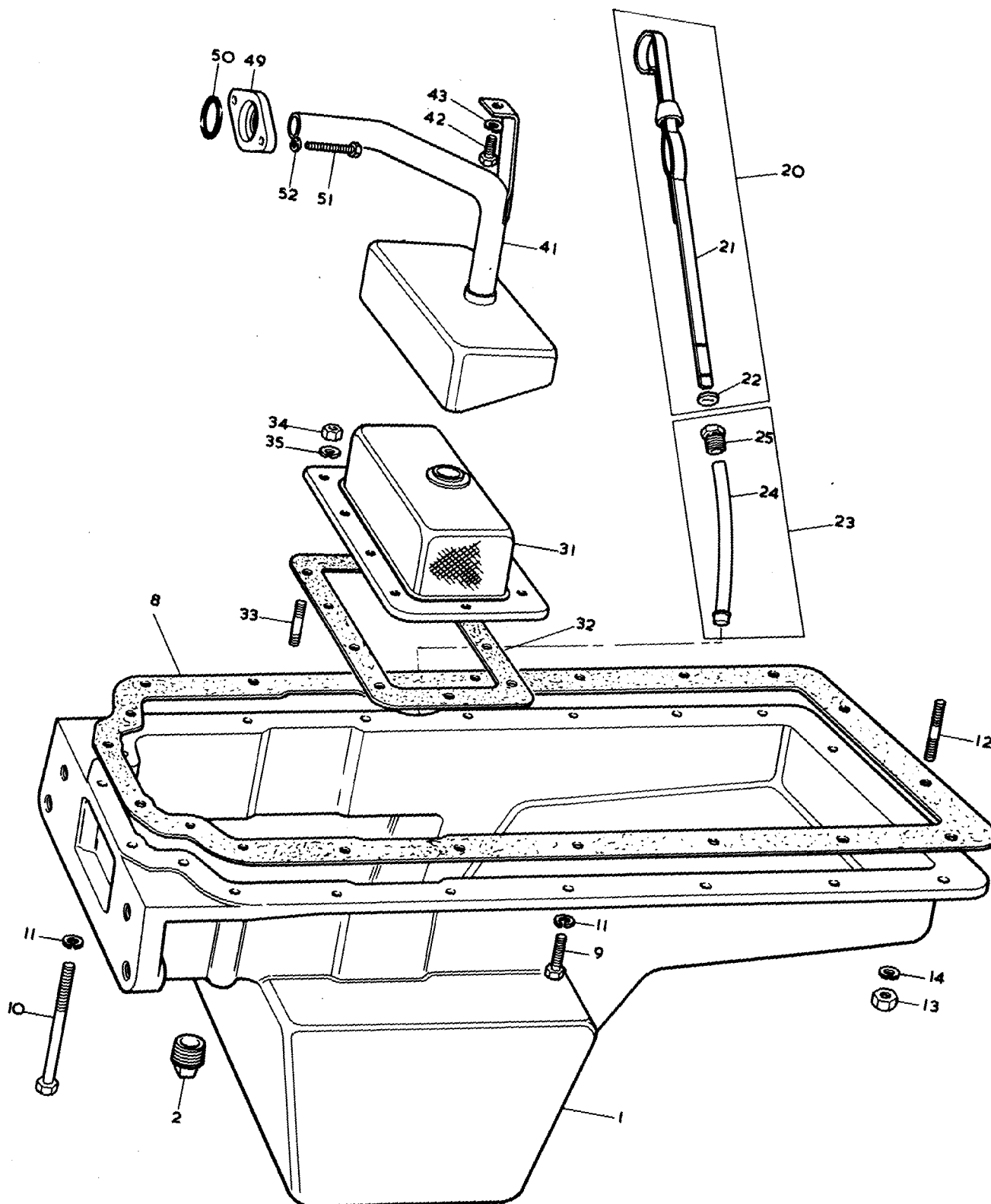
(C) USED ONLY WITH 35736164

(D) USED ONLY WITH 35745815

CPO 2873

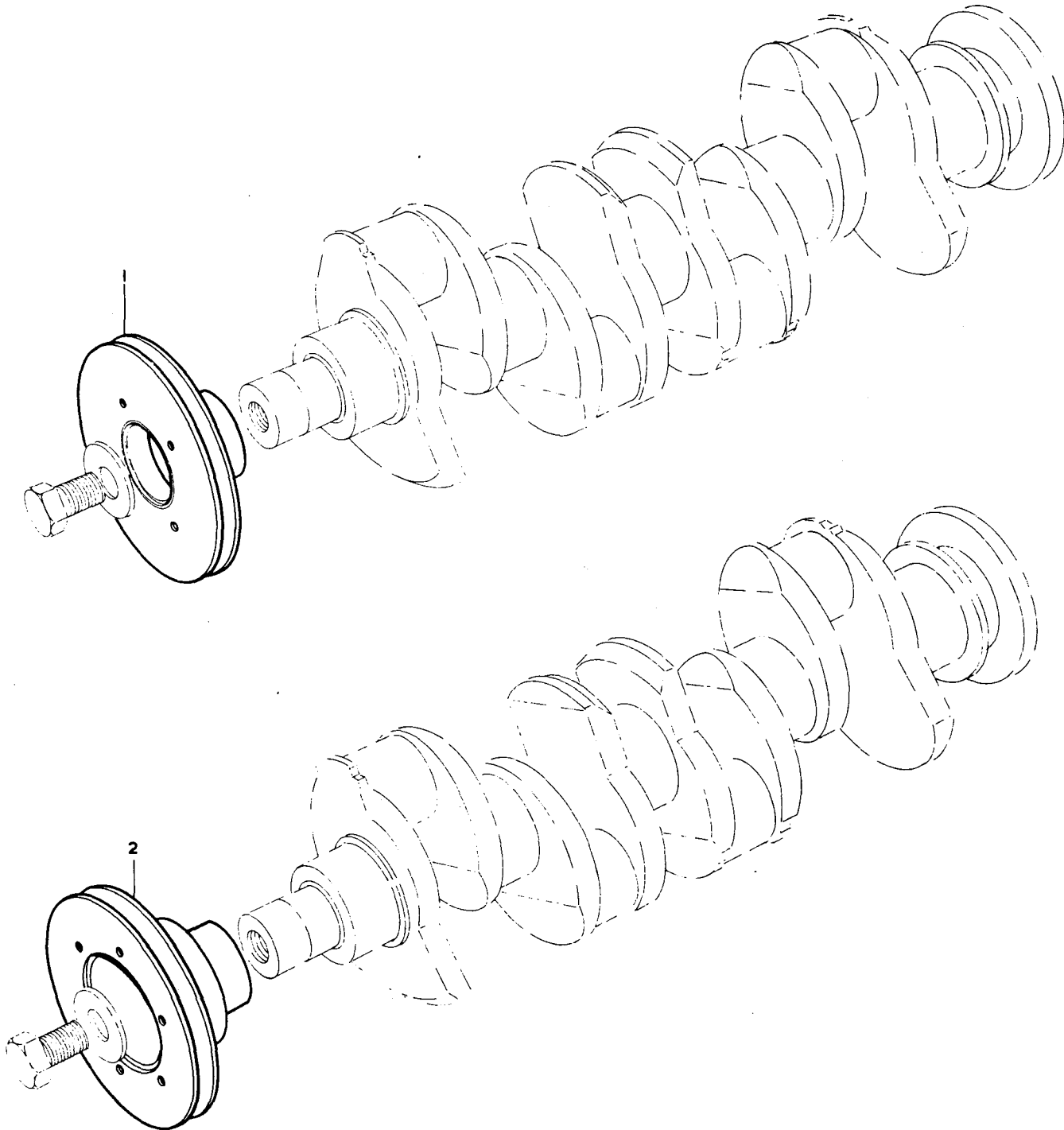
LUBRICATING OIL SUMP
CARTER D'HUILE
OELWANNE
CARTER DEL ACEITE

35



CRANKSHAFT PULLEYS
POULIES
KURBELWELLE KEILRIEMENSCHIEDEN
POLEAS DEL CIGUENAL

CPO 2874



CRANKSHAFT PULLEYS
POULIES
KURBELWELLE KEILRIEMENSCHLEIBEN
POLEAS DEL CIGUENAL

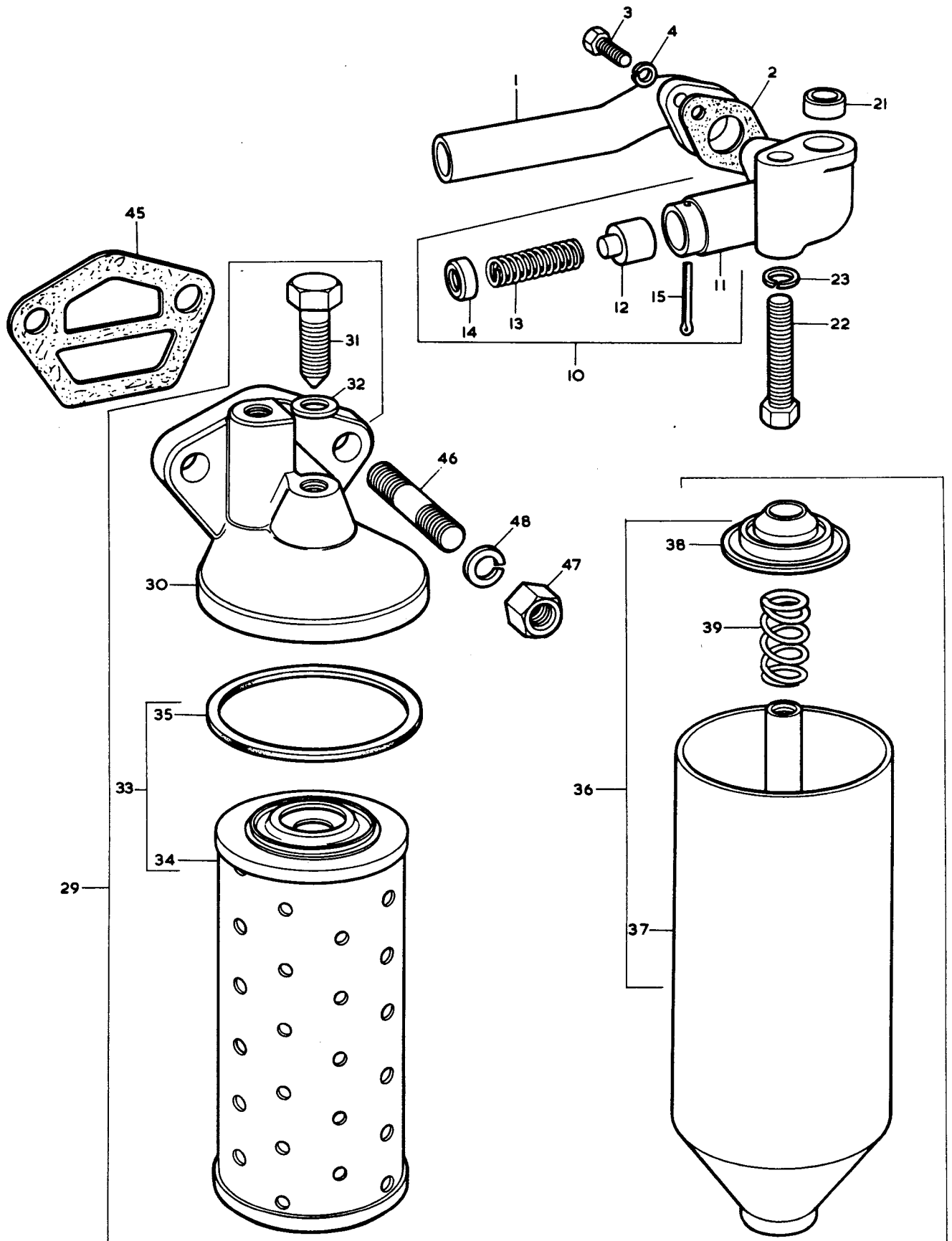
37

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
			CODE C.00 CODE C.00 CODE C.00 CODIGO C.00				
1		31148861	PULLEY.....	POULIE.....	KEILRIEMENSCHLEIBE.....	POLEA.....	1
			CODE C.01 CODE C.01 CODE C.01 CODIGO C.01				
2		31148901	PULLEY.....	POULIE.....	KEILRIEMENSCHLEIBE.....	POLEA.....	1

LUBRICATING OIL FILTER
FILTRE A HUILE
OELFIELTER
FILTRO DEL ACEITE

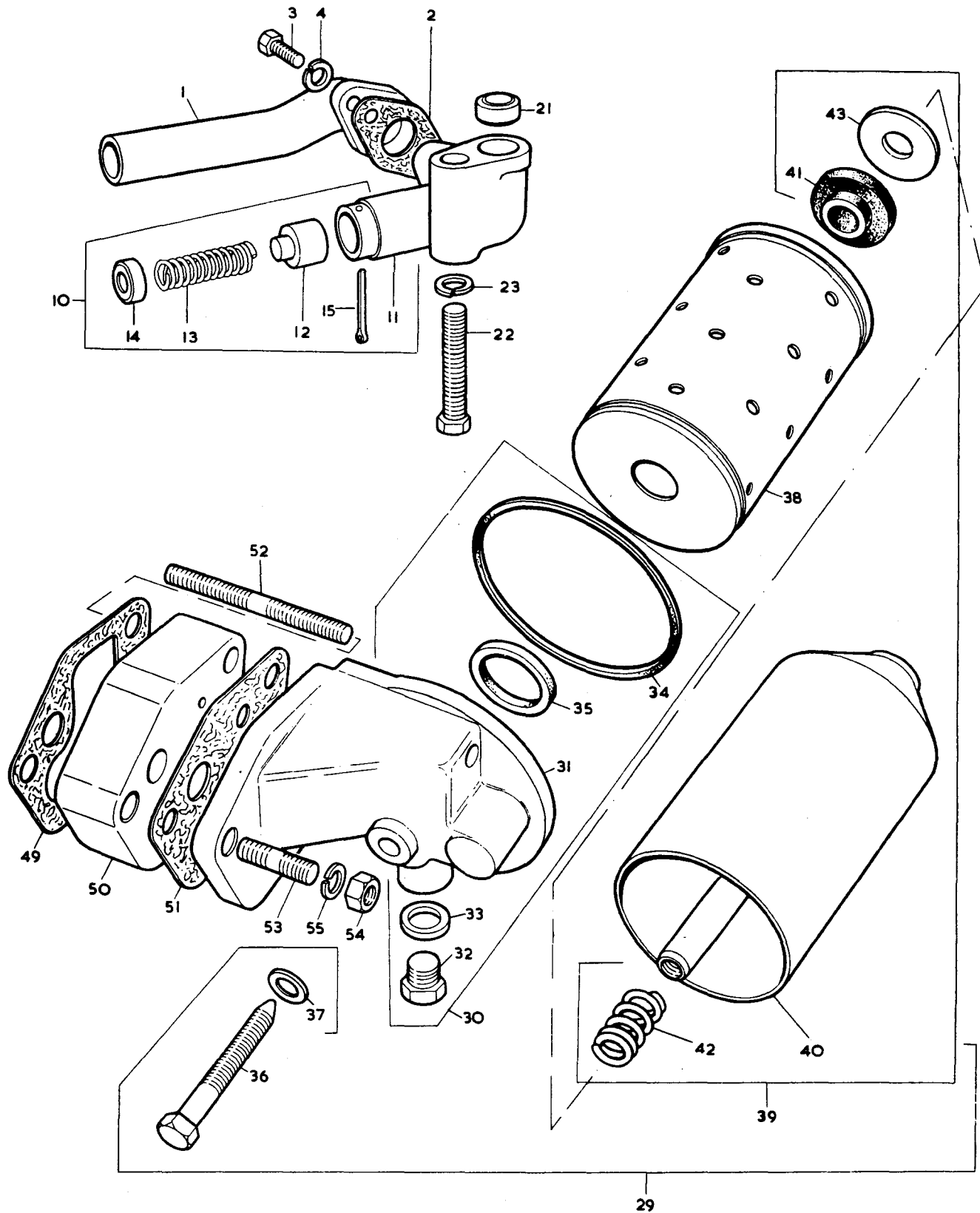
<u>Ref.</u> <u>No.</u>	<u>Nota</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
			CODE D.OO CODE D.OO CODE D.OO CODIGO D.OO				
1		35714103	PIPE.....	TUBE.....	OELLEITUNG.....	TUBO.....	1
2		0490355	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
3		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
4		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
10		41371077	HOUSING.....	CORPS.....	GEHAUSE.....	CAJA.....	1
11			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
12		32712715	PLUNGER.....	PLONGEUR.....	UEBERDRUCKVENTIL.....	EMBOLO.....	1
13		31742128	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
14		33157122	CAP.....	CHAPEAU.....	DECKEL.....	TAPA.....	1
15		0610012	SPLITPIN.....	GOUPILLE.....	SPLINT.....	PASADOR.....	1
21		0870001	THIMBLE.....	BAGUE.....	FUEHRUNGSBUCHSE.....	MANGUITO.....	1
22		0096438	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
23		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
29		2654154	FILTER.....	FILTRE A HUILE.....	OELFILTER.....	FILTRO.....	1
30		26540123	HEADCASTING.....	TETE DE FILTRE.....	FILTERKOPF.....	CABEZA.....	1
31		0095292	BOLT.....	BOULON.....	BOLZEN.....	PERNO.....	1
32		0921079	WASHER.....	RONDELLE.....	SCHIEBE.....	ARANDELA.....	1
33		26560090	ELEMENT.....	MALLETTE.....	OELFILTEREINSATZ.....	ELEMENTO.....	1
34			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL	PEDIR CONJUNTO.....	1
35		0490520	JOINT.....	JOINT.....	DICHTUNG.....	SELLO.....	1
36		26540127	CONTAINER.....	CUVE.....	OELBEHAELTER.....	TAZON.....	1
37			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL	PEDIR CONJUNTO.....	1
38		0941138	RETAINER.....	PLAQUE.....	DRUCKPLATTE.....	PLACA.....	1
39		26540022	SPRING.....	RESSORTE.....	FEDER.....	RESORTE.....	1
45		36862517	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
46		0826627	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	2
47		0576054	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
48		0920055	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

CPO 2875



LUBRICATING OIL FILTER
FILTRE A HUILE
OELFILTER
FILTRO DEL ACEITE

CPO 2876



LUBRICATING OIL FILTER
FILTRE A HUILE
OELFILTER
FILTRO DEL ACEITE

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<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Descripcion</u>	<u>No.</u> <u>Req.</u>
			CODE D.01. CODE D.01 CODE D.01 CODIGO D.01				
1		35714103	PIPE.....	TUBE.....	OELLEITUNG.....	TUBO.....	1
2		0490355	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
3		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
4		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
10		41371077	HOUSING.....	CORPS.....	GEHAUSE.....	CAJA.....	1
11			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
12		32712715	PLUNGER.....	PLONGEUR.....	UEBERDRUCKVENTIL.....	EMBOLO.....	1
13		31742128	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
14		33157122	CAP.....	CHAPEAU.....	DECKEL.....	TAPA.....	1
15		0610012	SPLITPIN.....	GOUPILLE.....	SPLINT.....	PASADOR.....	1
21		0870001	THIMBLE.....	BAGUE.....	FUEHRUNGSBUCHSE.....	MANGUITO.....	1
22		0096438	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
23		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
29		35291	FILTER.....	FILTRE A HUILE.....	OELFILTER.....	FILTRO.....	1
30		26540157	HEADCASTING.....	TETE DE FILTRE.....	FILTERKOPF.....	CABEZA.....	1
31			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL	PEDIR CONJUNTO.....	1
32		0650772	PLUG.....	BOUCHON.....	VERSCHLUSSCHRAUBE...	TAPON.....	1
33		0921320	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
34		0490520	JOINT.....	JOINT.....	DICHTRING.....	SELLO.....	1
35		0730103	JOINT.....	JOINT.....	DICHTRING.....	SELLO.....	1
36		0095292	BOLT.....	BOULON.....	BOLZEN.....	PERNO.....	1
37		0921079	WASHER.....	RONDELLE.....	SCHEIBE.....	ARANDELA.....	1
38		26540132	ELEMENT.....	MALLETTE.....	OELFILTEREINSATZ.....	ELEMENTO.....	1
39		26540158	CONTAINER.....	CUVE.....	OELBEHAELTER.....	TAZON.....	1
40			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE..	BESTELLE KOMPLETTEIL	PEDIR CONJUNTO.....	1
41		26560010	JOINT.....	JOINT.....	DICHTRING.....	SELLO.....	1
42		26560004	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
43		26560009	WASHER.....	PLAQUE.....	DRUCKPLATTE.....	PLACA.....	1
49		36862522	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
50		41321911	ADAPTOR.....	ADAPTATEUR.....	ZWISCHENSTUECK.....	ADAPTADOR.....	1
51		36861734	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
52		0826630	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
53		0826619	STUD.....	GOIJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
54		0576054	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
55		0920055	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

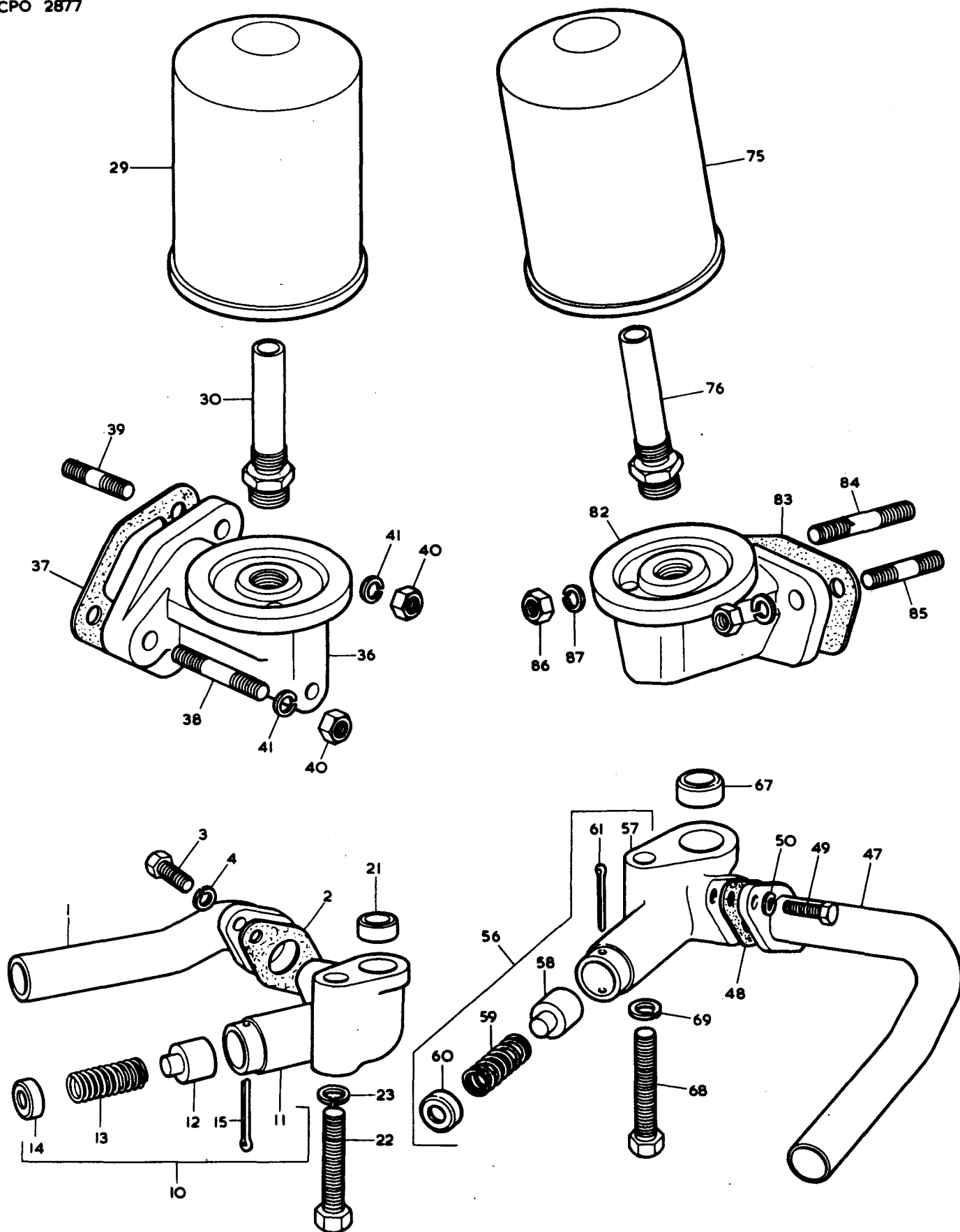
LUBRICATING OIL FILTER
FILTRE A HUILE
OELFILTER
FILTRO DEL ACEITE

<u>Ref.</u> <u>No.</u>	<u>Note</u>	<u>Part No.</u>	<u>Description</u>	<u>Designation</u>	<u>Benennung</u>	<u>Description</u>	<u>No.</u> <u>Req.</u>
CODE D.02 CODE D.02 CODE D.02 CODIGO D.02							
1		35714103	PIPE.....	TUBE.....	OELLEITUNG.....	TUBO.....	1
2		0490355	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
3		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
4		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
10		41371077	HOUSING.....	CORPS.....	GEHAUSE.....	CAJA.....	1
11			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
12		32712715	PLUNGER.....	PLONGEUR.....	UEBERDRUCKVENTIL.....	EMBOLO.....	1
13		31742128	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
14		33157122	CAP.....	CHAPEAU.....	DECKEL.....	TAPA.....	1
15		0610012	SPLIT-PIN.....	GOUPILLE.....	SPLINT.....	PASADOR.....	1
21		0870001	THIMBLE.....	DOUILLE.....	FUEHRUNGSBUCHSE.....	MANGUITO.....	1
22		0096438	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
23		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
29		2654343	FILTER.....	FILTRE A HUILE.....	OELFILTER.....	FILTRO.....	1
30		35311117	STANDPIPE.....	TUYAU.....	ROHR.....	TUBO.....	1
36		37763221	ADAPTOR.....	ADAPTATEUR.....	ZWISCHENSTUECK.....	ADAPTADOR.....	1
37		36862517	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
38		0826601	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
39		0826608	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
40		0576054	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
41		0920055	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
CODE D.03 CODE D.03 CODE D.03 CODIGO D.03							
47		35714104	PIPE.....	TUBE.....	OELLEITUNG.....	TUBO.....	1
48		0490355	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
49		0746053	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	2
50		0920052	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2
56		41371078	HOUSING.....	CORPS.....	GEHAUSE.....	CAJA.....	1
57			ORDER ASSEMBLY.....	COMMANDER ENSEMBLE...	BESTELLE KOMPLETTEIL.	PEDIR CONJUNTO.....	1
58		32712715	PLUNGER.....	PLONGEUR.....	UEBERDRUCKVENTIL.....	EMBOLO.....	1
59		31742128	SPRING.....	RESSORT.....	FEDER.....	RESORTE.....	1
60		33157122	CAP.....	CHAPEAU.....	DECKEL.....	TAPA.....	1
61		0610012	SPLITPIN.....	GOUPILLE.....	SPLINT.....	PASADOR.....	1
67		0870001	THIMBLE.....	DOUILLE.....	FUEHRUNGSBUCHSE.....	MANGUITO.....	1
68		0096438	SETSCREW.....	VIS.....	SECHSKANTSCHRAUBE.....	TORNILLO.....	1
69		0920054	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	1
75		2654343	FILTER.....	FILTRE A HUILE.....	OELFILTER.....	FILTRO.....	1
76		35311117	STANDPIPE.....	TUYAU.....	ROHR.....	TUBO.....	1
82		37763751	ADAPTOR.....	ADAPTATEUR.....	ZWISCHENSTUECK.....	ADAPTADOR.....	1
83		36862517	JOINT.....	JOINT.....	DICHTUNG.....	JUNTA.....	1
84		0826601	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
85		0826608	STUD.....	GOUJON.....	STIFTSCHRAUBE.....	VASTAGO.....	1
86		0576054	NUT.....	ECROU.....	SECHSKANTMUTTER.....	TUERCA.....	2
87		0920055	WASHER.....	RONDELLE.....	FEDERRING.....	ARANDELA.....	2

LUBRICATING OIL FILTER
 FILTRE A HUILE
 OELFILTER
 FILTRO DEL ACEITE

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CPO 2877



LUBRICATING OIL FILLERS
BOITES DE REMPLISSAGE D'HUILE
ÖLEINFÜLLSTÜTZEN
BOCAS DE LLENADO DE ACEITE

CPO 2678

