

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK THRU 6D-233384	1.1000	59
CYLINDER BLOCK EFF. WITH 6D-233385	1.1000	237
AIR BOX DRAINS THRU 6D-236702	1.1000A	114
AIR BOX DRAINS EFF. WITH 6D-236703	1.1000A	190
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236	1.2000A	78
CRANKSHAFT STD. EQUIP. PRIOR TO 6D-225620	1.3000	44
FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454	1.4000A	808
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236	1.5000A	431
CONNECTING ROD AND PISTON	1.6000	181
CAMSHAFT AND GEAR TRAIN	1.7000	277
BALANCE WEIGHT COVER	1.7000A	55
ACCESSORY DRIVE	1.7000B	358
VALVE OPERATING MECHANISM	1.8000	165
ROCKER COVER	1.8000A	474
FUEL INJECTOR	2.1000A	242
FUEL PUMP	2.2000	194
FUEL FILTER STD. EQUIP. PRIOR TO 6D-225620	2.3000A	811
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES STD. EQUIP. PRIOR TO 6D-225620	2.5000A	1637
MECHANICAL GOVERNOR	2.7000A	1886
INJECTOR CONTROLS STD. EQUIP. PRIOR TO 6D-225620	2.9000	266
THROTTLE CONTROLS STD. EQUIP. PRIOR TO 6D-225620	2.9000A	982
THROTTLE CONTROLS	2.9000A	1178
AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521	3.3000A	282
BLOWER STD. EQUIP. PRIOR TO 6D-225521	3.4000	322
BLOWER DRIVE SHAFT	3.4000A	17
TURBOCHARGER	3.5000A	754
OIL PUMP	4.1000A	164
OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471	4.1000B	445
OIL PRESSURE REGULATOR	4.1000C	12
OIL FILTER STD. EQUIP. PRIOR TO 6D-225620	4.2000A	349
OIL COOLER STD. EQUIP. PRIOR TO 6D-225620	4.4000A	1000
OIL FILLER	4.5000A	86
OIL PAN STD. EQUIP. PRIOR TO 6D-224545	4.7000A	344
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	756
FRESH WATER PUMP	5.1000	192
WATER OUTLET MANIFOLD STD. EQUIP. PRIOR TO 6D-225620	5.2000A	98
THERMOSTAT STD. EQUIP. PRIOR TO 6D-225620	5.2000B	153
WATER BY-PASS TUBE	5.2000C	387
WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225620	5.3000B	392
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225620	6.1000A	548
EXHAUST MUFFLER	6.2000A	405
STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521	7.3000A	300
TACHOMETER DRIVE	7.4000B	534
AIR HEATER STD. EQUIP. PRIOR TO 6D-225620	7.8000A	192
ENGINE MOUNTING STD. EQUIP. PRIOR TO 6D-225521	11.1000A	380
AIR COMPRESSOR	12.4000A	1222

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	236
AIR BOX DRAINS	1.1000A	179
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	44
CRANKSHAFT PULLEY HUB	1.3000C	407
FLYWHEEL	1.4000A	532
FLYWHEEL HOUSING	1.5000A	325
CONNECTING ROD AND PISTON	1.6000	288
CAMSHAFT AND GEAR TRAIN	1.7000	486
BALANCE WEIGHT COVER	1.7000A	61
VALVE OPERATING MECHANISM	1.8000	165
ROCKER COVER	1.8000A	519
FUEL INJECTOR	2.1000A	229
FUEL PUMP	2.2000	194
FUEL FILTER	2.3000A	847
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1767
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS	2.9000	266
AIR INLET HOUSING	3.3000A	744
BLOWER	3.4000	468
BLOWER DRIVE SHAFT	3.4000A	35
TURBOCHARGER	3.5000A	1027
OIL PUMP	4.1000A	182
OIL DISTRIBUTION SYSTEM	4.1000B	445
OIL PRESSURE REGULATOR	4.1000C	14
OIL FILTER	4.2000A	487
OIL FILTER LINES	4.3000A	202
OIL COOLER	4.4000A	1037
OIL FILLER	4.5000A	161
DIPSTICK	4.6000A	1138
OIL PAN	4.7000A	654
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	839
FRESH WATER PUMP	5.1000	192
WATER OUTLET MANIFOLD	5.2000A	98
THERMOSTAT	5.2000B	351
WATER BY-PASS TUBE	5.2000C	387
WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-229174	5.3000B	392
WATER CONNECTIONS	5.3000B	412
EXHAUST MANIFOLD	6.1000A	582
STARTING MOTOR	7.3000A	300
TACHOMETER DRIVE	7.4000B	364
AIR HEATER	7.8000A	196
ENGINE MOUNTING	11.1000A	685

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	237
AIR BOX DRAINS	1.1000A	179
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	61
CRANKSHAFT PULLEY	1.3000C	381
FLYWHEEL	1.4000A	532
FLYWHEEL HOUSING	1.5000A	696
CONNECTING ROD AND PISTON	1.6000	288
CAMSHAFT AND GEAR TRAIN	1.7000	486
ACCESSORY DRIVE	1.7000B	394
VALVE OPERATING MECHANISM	1.8000	165
ROCKER COVER	1.8000A	519
FUEL INJECTOR	2.1000A	229
FUEL PUMP	2.2000	254
FUEL FILTER	2.3000A	838
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1743
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS	2.9000	266
AIR INLET HOUSING	3.3000A	809
BLOWER	3.4000	468
BLOWER DRIVE SHAFT	3.4000A	37
TURBOCHARGER	3.5000A	998
OIL PUMP	4.1000A	182
OIL DISTRIBUTION SYSTEM	4.1000B	445
OIL PRESSURE REGULATOR	4.1000C	14
OIL FILTER	4.2000A	480
OIL COOLER	4.4000A	1107
OIL FILLER	4.5000A	161
DIPSTICK	4.6000A	1160
OIL PAN	4.7000A	770
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	857
FRESH WATER PUMP	5.1000	262
THERMOSTAT	5.2000B	348
WATER BY-PASS TUBE	5.2000C	445
WATER CONNECTIONS	5.3000B	412
EXHAUST MANIFOLD	6.1000A	571
STARTING MOTOR	7.3000A	300
TACHOMETER DRIVE	7.4000B	364
AIR HEATER	7.8000A	195
ENGINE MOUNTING	11.1000A	680

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK THRU 6D-233384	1.1000	59
CYLINDER BLOCK EFF. WITH 6D-233385	1.1000	237
AIR BOX DRAINS	1.1000A	114
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236	1.2000A	78
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	78
FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454	1.4000A	808
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236	1.5000A	431
CONNECTING ROD AND PISTON THRU 6D-164402	1.6000	182
CONNECTING ROD AND PISTON EFF. WITH 6D-164403 AND STD. EQUIP. PRIOR TO 6D-214999	1.6000	181
CAMSHAFT AND GEAR TRAIN THRU 6D-196534	1.7000	60
CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535	1.7000	277
BALANCE WEIGHT COVER	1.7000A	55
VALVE OPERATING MECHANISM THRU 6D-196534	1.8000	46
VALVE OPERATING MECHANISM EFF. WITH 6D-196535	1.8000	165
ROCKER COVER THRU 6D-184742	1.8000A	402
ROCKER COVER EFF. WITH 6D-184743; STD. EQUIP. PRIOR TO 6D-225521	1.8000A	474
FUEL INJECTOR	2.1000A	242
FUEL PUMP THRU 6D-188153	2.2000	166
FUEL PUMP EFF. WITH 6D-188154 AND THRU 6D-196534	2.2000	186
FUEL PUMP EFF. WITH 6D-196535	2.2000	194
FUEL FILTER STD. EQUIP. PRIOR TO 6D-190021	2.3000A	316
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES STD. EQUIP. PRIOR TO 6D-190021	2.5000A	1487
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS STD. EQUIP. PRIOR TO 6D-225620	2.9000	266
THROTTLE CONTROLS THRU 6D-162532	2.9000A	900
THROTTLE CONTROLS EFF. WITH 6D-162533; STD. EQUIP. PRIOR TO 6D-223412	2.9000A	927
THROTTLE CONTROLS	2.9000A	927
AIR CLEANER ELBOW THRU 6D-223412	3.1000A	265
AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521	3.3000A	282
BLOWER THRU 6D-196534	3.4000	282
BLOWER EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-225521	3.4000	322
BLOWER DRIVE SHAFT	3.4000A	17
TURBOCHARGER STD. EQUIP. PRIOR TO 6D-225620	3.5000A	754
OIL PUMP	4.1000A	165
OIL DISTRIBUTION SYSTEM	4.1000B	324
OIL PRESSURE REGULATOR	4.1000C	12
OIL FILTER STD. EQUIP. PRIOR TO 6D-221605	4.2000A	194
OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-221605	4.3000A	114
OIL COOLER	4.4000A	1027
OIL FILLER STD. EQUIP. PRIOR TO 6D-225521	4.5000A	86
DIPSTICK	4.6000A	559
OIL PAN	4.7000A	273
VENTILATING SYSTEM (ON ROCKER COVER) THRU 6D-184742	4.8000A	586
VENTILATING SYSTEM EFF. WITH 6D-184743; STD. EQUIP. PRIOR TO 6D-225521	4.8000A	756
FRESH WATER PUMP STD. EQUIP. PRIOR TO 6D-221606	5.1000	153
WATER OUTLET ELBOW	5.2000A	86
THERMOSTAT	5.2000B	290
WATER BY-PASS TUBE	5.2000C	360
WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-221606	5.3000B	352
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-223412	6.1000A	439
EXHAUST MUFFLER CLAMP STD. EQUIP. PRIOR TO 6D-225521	6.2000A	405
STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521	7.3000A	300
TACHOMETER DRIVE STD. EQUIP. PRIOR TO 6D-155565	7.4000B	276
TACHOMETER DRIVE	7.4000B	534
AIR HEATER	7.8000A	178
ENGINE MOUNTS STD. EQUIP. PRIOR TO 6D-225521	11.1000A	380
AIR COMPRESSOR STD. EQUIP. PRIOR TO 6D-213965	12.4000A	1000
AIR COMPRESSOR	12.4000A	1230
HYDRAULIC PUMP STD. EQUIP. PRIOR TO 6D-213965	12.5000A	184

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK STD. EQUIP. PRIOR TO 6D-230055	1.1000	59
CYLINDER BLOCK	1.1000	237
AIR BOX DRAINS STD. EQUIP. PRIOR TO 6D-232193	1.1000A	129
CYLINDER HEAD STD. EQUIP. PRIOR TO 6D-236641	1.2000	26
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236	1.2000A	78
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	126
FLYWHEEL STD. EQUIP. PRIOR TO 6D-220648	1.4000A	532
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236	1.5000A	325
CONNECTING ROD AND PISTON THRU 6D-164402	1.6000	182
CONNECTING ROD AND PISTON EFF. WITH 6D-164403 AND STD. EQUIP. PRIOR TO 6D-214999	1.6000	181
CAMSHAFT AND GEAR TRAIN THRU 6D-196534	1.7000	60
CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-236641	1.7000	277
VALVE OPERATING MECHANISM THRU 6D-196534	1.8000	46
VALVE OPERATING MECHANISM EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-230055	1.8000	165
ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521	1.8000A	281
FUEL INJECTOR	2.1000A	80
FUEL PUMP	2.2000	194
FUEL FILTER STD. EQUIP. PRIOR TO 6D-225521	2.3000A	661
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES STD. EQUIP. PRIOR TO 6D-225521	2.5000A	1466
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS	2.9000	266
AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521	3.3000A	527
BLOWER THRU 6D-196534	3.4000	282
BLOWER EFF. WITH 6D-196535 STD. EQUIP. PRIOR TO 6D-225521	3.4000	322
BLOWER DRIVE SHAFT STD. EQUIP. PRIOR TO 6D-236641	3.4000A	35
TURBOCHARGER	3.5000A	322
OIL PUMP EFF. WITH 6D-218704	4.1000A	51
OIL PUMP EFF. WITH 6D-218705; STD. EQUIP. PRIOR TO 6D-230055	4.1000A	164
OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471	4.1000B	445
OIL PRESSURE REGULATOR STD. EQUIP. PRIOR TO 6D-230055	4.1000C	12
OIL FILTER STD. EQUIP. PRIOR TO 6D-225471	4.2000A	337
OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-225471	4.3000A	175
OIL COOLER STD. EQUIP. PRIOR TO 6D-225521	4.4000A	814
OIL COOLER	4.4000A	1032
OIL FILLER STD. EQUIP. PRIOR TO 6D-225521	4.5000A	86
DIPSTICK STD. EQUIP. PRIOR TO 6D-224661	4.6000A	411
OIL PAN STD. EQUIP. PRIOR TO 6D-224545	4.7000A	344
VENTILATING SYSTEM STD. EQUIP. PRIOR TO 6D-225521	4.8000A	585
FRESH WATER PUMP STD. EQUIP. PRIOR TO 6D-233324	5.1000	192
WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 6D-225504	5.2000A	98
THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504	5.2000B	154
WATER BY-PASS TUBE	5.2000C	387
WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225504	5.3000B	352
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504	6.1000A	257
STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521	7.3000A	300
TACHOMETER DRIVE STD. EQUIP. PRIOR TO 6D-151605	7.4000B	485
AIR HEATER THRU 6D-157233	7.8000A	178
AIR HEATER EFF. WITH 6D-157234; STD. EQUIP. PRIOR TO 6D-225521	7.8000A	188

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK THRU 6D-233384	1.1000	59
CYLINDER BLOCK EFF. WITH 6D-233385	1.1000	237
AIR BOX DRAINS	1.1000A	62
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 6D-225236	1.2000A	44
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	78
FLYWHEEL STD. EQUIP. PRIOR TO 6D-225454	1.4000A	945
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-225236	1.5000A	325
CONNECTING ROD AND PISTON THRU 6D-164402	1.6000	182
CONNECTING ROD AND PISTON EFF. WITH 6D-164403 AND STD. EQUIP. PRIOR TO 6D-214999	1.6000	181
CAMSHAFT AND GEAR TRAIN THRU 6D-196534	1.7000	60
CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535	1.7000	277
BALANCE WEIGHT COVER	1.7000A	55
VALVE OPERATING MECHANISM THRU 6D-196534	1.8000	46
VALVE OPERATING MECHANISM EFF. WITH 6D-196535	1.8000	165
ROCKER COVER STD. EQUIP. PRIOR TO 6D-225521	1.8000A	402
FUEL INJECTOR	2.1000A	89
FUEL PUMP	2.2000	194
FUEL FILTER STD. EQUIP. PRIOR TO 6D-225521	2.3000A	316
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES STD. EQUIP. PRIOR TO 6D-225521	2.5000A	695
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS THRU 6D-171833	2.9000	182
INJECTOR CONTROLS EFF. WITH 6D-171834; STD. EQUIP. PRIOR TO 6D-225620	2.9000	266
AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-225521	3.3000A	573
BLOWER THRU 6D-196534	3.4000	282
BLOWER EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-225521	3.4000	322
BLOWER DRIVE SHAFT	3.4000A	35
TURBOCHARGER STD. EQUIP. PRIOR TO 6D-225521	3.5000A	309
OIL PUMP THRU 6D-218704	4.1000A	51
OIL PUMP EFF. WITH 6D-218705	4.1000A	165
OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-225471	4.1000B	368
OIL PRESSURE REGULATOR THRU 6D-218704	4.1000C	14
OIL PRESSURE REGULATOR EFF. WITH 6D-218705	4.1000C	12
OIL FILTER STD. EQUIP. PRIOR TO 6D-225471	4.2000A	194
OIL FILTER LINES STD. EQUIP. PRIOR TO 6D-225471	4.3000A	114
OIL COOLER STD. EQUIP. PRIOR TO 6D-225521	4.4000A	413
OIL COOLER	4.4000A	1018
OIL FILLER STD. EQUIP. PRIOR TO 6D-225521	4.5000A	86
DIPSTICK	4.6000A	414
OIL PAN STD. EQUIP. PRIOR TO 6D-225471	4.7000A	654
VENTILATING SYSTEM STD. EQUIP. PRIOR TO 6D-225521	4.8000A	756
FRESH WATER PUMP	5.1000	192
WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 6D-225504	5.2000A	98
THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504	5.2000B	153
WATER BY PASS TUBE	5.2000C	387
WATER CONNECTIONS STD. EQUIP. PRIOR TO 6D-225471	5.3000B	219
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504	6.1000A	257
STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521	7.3000A	300
TACHOMETER DRIVE STD. EQUIP. PRIOR TO 6D-217823	7.4000B	364
AIR HEATER	7.8000A	185
ENGINE MOUNTS	11.1000A	502

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	237
AIR BOX DRAINS STD. EQUIP. PRIOR TO 6D-228877	1.1000A	114
CYLINDER HEAD STD. EQUIP. PRIOR TO 6D-219763	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER THRU 6D-113798	1.3000A	85
CRANKSHAFT FRONT COVER EFF. WITH 6D-113799; STD. EQUIP. PRIOR TO 6D-159950	1.3000A	78
FLYWHEEL STD. EQUIP. PRIOR TO 6D-222994	1.4000A	808
FLYWHEEL HOUSING STD. EQUIP. PRIOR TO 6D-219763	1.5000A	431
CONNECTING ROD AND PISTON THRU 6D-135079	1.6000	59
CONNECTING ROD AND PISTON EFF. WITH 6D-135080 AND THRU 6D-164402	1.6000	182
CONNECTING ROD AND PISTON EFF. WITH 6D-164403 AND STD. EQUIP. PRIOR TO 6D-214999	1.6000	181
CAMSHAFT AND GEAR TRAIN THRU 6D-196534	1.7000	60
CAMSHAFT AND GEAR TRAIN EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO 6D-219763	1.7000	277
BALANCE WEIGHT COVER	1.7000A	55
VALVE OPERATING MECHANISM THRU 6D-196534	1.8000	46
VALVE OPERATING MECHANISM EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO 6D-219763	1.8000	165
ROCKER COVER STD. EQUIP. PRIOR TO 6D-222994	1.8000A	281
FUEL INJECTOR	2.1000A	89
FUEL PUMP	2.2000	194
FUEL FILTER	2.3000A	316
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1417
MECHANICAL GOVERNOR	2.7000A	1583
INJECTOR CONTROLS THRU 6D-171833	2.9000	182
INJECTOR CONTROLS EFF. WITH 6D-171834; STD. EQUIP. PRIOR TO 6D-225620	2.9000	266
THROTTLE CONTROLS EFF. THRU 6D-162532	2.9000A	900
THROTTLE CONTROLS EFF. WITH 6D-162533 AND STD. EQUIP. PRIOR TO 6D-222994	2.9000A	927
AIR INLET HOUSING STD. EQUIP. PRIOR TO 6D-222994	3.3000A	527
BLOWER THRU 6D-196534	3.4000	282
BLOWER EFF. WITH 6D-196535; STD. EQUIP. PRIOR TO 6D-225521	3.4000	322
BLOWER DRIVE SHAFT STD. EQUIP. PRIOR TO 6D-228877	3.4000A	35
TURBOCHARGER	3.5000A	252
OIL PUMP THRU 6D-218704	4.1000A	51
OIL PUMP EFF. WITH 6D-218705	4.1000A	165
OIL DISTRIBUTION SYSTEM STD. EQUIP. PRIOR TO 6D-159950	4.1000B	368
OIL PRESSURE REGULATOR THRU 6D-218704	4.1000C	14
OIL PRESSURE REGULATOR EFF. WITH 6D-218705	4.1000C	12
OIL FILTER	4.2000A	249
OIL COOLER STD. EQUIP. PRIOR TO 6D-225521	4.4000A	413
OIL COOLER	4.4000A	1018
OIL FILLER STD. EQUIP. PRIOR TO 6D-222994	4.5000A	86
DIPSTICK STD. EQUIP. PRIOR TO 6D-157735	4.6000A	799
OIL PAN	4.7000A	344
VENTILATING SYSTEM (ON ROCKER COVER) STD. EQUIP. PRIOR TO 6D-222994	4.8000A	585
FRESH WATER PUMP THRU 6D-117050	5.1000	108
FRESH WATER PUMP EFF. WITH 6D-117051; STD. EQUIP. PRIOR TO 6D-228877	5.1000	192
WATER OUTLET ELBOW STD. EQUIP. PRIOR TO 6D-225504	5.2000A	98
THERMOSTAT STD. EQUIP. PRIOR TO 6D-225504	5.2000B	153
WATER BY-PASS TUBE	5.2000C	387
WATER CONNECTIONS	5.3000B	219
EXHAUST MANIFOLD STD. EQUIP. PRIOR TO 6D-225504	6.1000A	257
STARTING MOTOR STD. EQUIP. PRIOR TO 6D-225521	7.3000A	300
AIR HEATER	7.8000A	178

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	72
AIR BOX DRAINS	1.1000A	68
CYLINDER HEAD	1.2000	68
ENGINE LIFTER BRACKET	1.2000A	78
CRANKSHAFT THRU 6D-11886	1.3000	43
CRANKSHAFT EFF. WITH 6D-11887	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	85
FLYWHEEL	1.4000A	532
FLYWHEEL HOUSING	1.5000A	326
CONNECTING ROD AND PISTON	1.6000	59
CAMSHAFT AND GEAR TRAIN	1.7000	60
VALVE OPERATING MECHANISM	1.8000	48
ROCKER COVER	1.8000A	115
FUEL INJECTOR STD. EQUIP. PRIOR TO 6D-93872	2.1000A	80
FUEL PUMP THRU 6D-78448	2.2000	66
FUEL PUMP EFF. WITH 6D-78449	2.2000	128
FUEL FILTER	2.3000A	294
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	658
MECHANICAL GOVERNOR THRU 6D-9819	2.7000A	547
MECHANICAL GOVERNOR EFF. WITH 6D-9820, STD. EQUIP. PRIOR TO 6D-83965	2.7000A	898
INJECTOR CONTROLS THRU 6D-84347	2.9000	122
INJECTOR CONTROLS EFF. WITH 6D-84348	2.9000	182
AIR INLET HOUSING	3.3000A	274
BLOWER THRU 6D-36860	3.4000	90
BLOWER EFF. WITH 6D-36861	3.4000	137
BLOWER DRIVE SHAFT	3.4000A	35
TURBOCHARGER	3.5000A	99
OIL PUMP	4.1000A	51
OIL DISTRIBUTION SYSTEM	4.1000B	297
OIL PRESSURE REGULATOR	4.1000C	14
OIL FILTER	4.2000A	249
OIL COOLER	4.4000A	405
OIL FILLER	4.5000A	77
DIPSTICK	4.6000A	411
OIL PAN	4.7000A	344
FRESH WATER PUMP THRU 6D-7324	5.1000	94
FRESH WATER PUMP EFF. WITH 6D-7325 AND THRU 6D-117050	5.1000	108
FRESH WATER PUMP EFF. WITH 6D-117051	5.1000	192
WATER OUTLET MANIFOLD	5.2000A	98
THERMOSTAT THRU 6D-117050	5.2000B	154
THERMOSTAT EFF. WITH 6D-117051	5.2000B	243
WATER BY-PASS TUBE THRU 6D-117050	5.2000C	212
WATER BY-PASS TUBE EFF. WITH 6D-117051	5.2000C	387
WATER CONNECTIONS	5.3000B	218
EXHAUST MANIFOLD	6.1000A	257
STARTING MOTOR	7.3000A	260
TACHOMETER DRIVE	7.4000B	485
AIR HEATER THRU 6D-76394	7.8000A	164
AIR HEATER EFF. WITH 6D-76395	7.8000A	178
ENGINE MOUNTS	11.1000A	601

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	59
AIR BOX DRAINS	1.1000A	62
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	22
CRANKSHAFT FRONT COVER	1.3000A	78
FLYWHEEL	1.4000A	532
FLYWHEEL HOUSING THRU 6D-6169	1.5000A	309
FLYWHEEL HOUSING EFF. WITH 6D-6170	1.5000A	325
CONNECTING ROD AND PISTON	1.6000	63
CAMSHAFT AND GEAR TRAIN	1.7000	35
VALVE OPERATING MECHANISM	1.8000	46
ROCKER COVER	1.8000A	118
FUEL INJECTOR	2.1000A	89
FUEL PUMP	2.2000	66
FUEL FILTER	2.3000A	294
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	658
MECHANICAL GOVERNOR	2.7000A	710
INJECTOR CONTROLS	2.9000	122
AIR INLET HOUSING	3.3000A	273
BLOWER	3.4000	90
BLOWER DRIVE SHAFT THRU 6D-10933	3.4000A	17
BLOWER DRIVE SHAFT EFF. WITH 6D-10934	3.4000A	35
TURBOCHARGER	3.5000A	98
OIL PUMP	4.1000A	51
OIL DISTRIBUTION SYSTEM	4.1000B	275
OIL PRESSURE REGULATOR	4.1000C	14
OIL FILTER	4.2000A	194
OIL FILTER LINES	4.3000A	114
OIL COOLER	4.4000A	404
OIL FILLER	4.5000A	55
OIL FILLER TUBE	4.5000A	77
DIPSTICK THRU 6D-6169	4.6000A	364
DIPSTICK EFF. WITH 6D-6170	4.6000A	411
OIL PAN THRU 6D-6169	4.7000A	299
OIL PAN EFF. WITH 6D-6170	4.7000A	322
FRESH WATER PUMP THRU 6D-6434	5.1000	94
FRESH WATER PUMP EFF. WITH 6D-6435 AND THRU 6D-117050	5.1000	108
FRESH WATER PUMP EFF. WITH 6D-117051	5.1000	192
WATER OUTLET ELBOW	5.2000A	98
THERMOSTAT THRU 6D-6434	5.2000B	124
THERMOSTAT EFF. WITH 6D-6435 AND THRU 6D-117050	5.2000B	154
THERMOSTAT EFF. WITH 6D-117051	5.2000B	243
WATER BY-PASS TUBE	5.2000C	212
WATER CONNECTIONS	5.3000B	216
EXHAUST MANIFOLD	6.1000A	234
STARTING MOTOR 24V. THRU 6D-6169	7.3000A	206
STARTING MOTOR 24V. EFF. WITH 6D-6170	7.3000A	260
TACHOMETER DRIVE STD. EQUIP. PRIOR TO 6D-6170	7.4000B	344
AIR HEATER	7.8000A	157

DETROIT DIESEL 53 MPC ENGINES

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STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK THRU 6D-233419	1.1000	31
CYLINDER BLOCK EFF. WITH 6D-233420	1.1000	146
AIR BOX DRAINS	1.1000A	62
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.2000A	44
ENGINE LIFTER BRACKET	1.2000A	•
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	•
CRANKSHAFT PULLEY	1.3000C	•
CRANKSHAFT PULLEY BELT	1.3000D	•
FLYWHEEL	1.4000A	•
FLYWHEEL HOUSING	1.5000A	•
CONNECTING ROD AND PISTON STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	1.6000	62
CONNECTING ROD AND PISTON	1.6000	•
CAMSHAFT AND GEAR TRAIN	1.7000	35
BALANCE WEIGHT COVER	1.7000A	•
VALVE OPERATING MECHANISM THRU 6D-196534	1.8000	33
VALVE OPERATING MECHANISM EFF. WITH 6D-196535	1.8000	164
ROCKER COVER	1.8000A	•
FUEL INJECTOR	2.1000A	•
FUEL PUMP	2.2000	•
FUEL FILTER	2.3000A	•
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	•
MECHANICAL GOVERNOR	2.7000A	•
INJECTOR CONTROLS THRU 6D-171833	2.9000	122
INJECTOR CONTROLS EFF. WITH 6D-171834 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	2.9000	273
INJECTOR CONTROLS	2.9000	•
THROTTLE CONTROLS	2.9000A	•
AIR INLET HOUSING	3.3000A	•
BLOWER THRU 6D-196534	3.4000	127
BLOWER EFF. WITH 6D-196535 AND STD. EQUIP. PRIOR TO BEING SHOWN ON OPTION PLATE	3.4000	325
BLOWER	3.4000	•
BLOWER DRIVE SHAFT	3.4000A	17
OIL PUMP	4.1000A	51
OIL DISTRIBUTION SYSTEM	4.1000B	•
OIL PRESSURE REGULATOR	4.1000C	•
OIL FILTER	4.2000A	•
OIL COOLER	4.4000A	•
OIL FILLER	4.5000A	•
DIPSTICK	4.6000A	•
OIL PAN	4.7000A	606
VENTILATING SYSTEM	4.8000A	•
FRESH WATER PUMP	5.1000	•
WATER OUTLET ELBOW	5.2000A	•
THERMOSTAT	5.2000B	•
WATER BY-PASS TUBE	5.2000C	•
WATER CONNECTIONS	5.3000B	•
FAN	5.4000A	•
EXHAUST MANIFOLD	6.1000A	•
EXHAUST MUFFLER CONNECTIONS	6.2000A	•
BATTERY CHARGING GENERATOR	7.1000A	•
STARTING MOTOR	7.3000A	•

• STANDARD OPTION REFER TO OPTION PLATE.

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	31
AIR BOX DRAINS THRU 6D-4948	1.1000A	48
AIR BOX DRAINS EFFECTIVE WITH 4D-4949	1.1000A	62
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	22
CRANKSHAFT FRONT COVER	1.3000A	63
CRANKSHAFT PULLEY	1.3000C	137
CRANKSHAFT PULLEY BELT	1.3000D	92
FLYWHEEL (ROCKFORD 14" RT CLUTCH)	1.4000A	376
FLYWHEEL (ROCKFORD 14" TT CLUTCH)	1.4000A	328
FLYWHEEL HOUSING	1.5000A	211
FLYWHEEL HOUSING	1.5000A	208
CONNECTING ROD AND PISTON	1.6000	35
CAMSHAFT AND GEAR TRAIN	1.7000	35
VALVE OPERATING MECHANISM	1.8000	33
ROCKER COVER (WITH OIL FILLER IN BOTH COVERS)	1.8000A	53
ROCKER COVER (WITH OIL FILLER IN ONE COVER)	1.8000A	64
FUEL INJECTOR	2.1000A	51
FUEL INJECTOR	2.1000A	52
FUEL PUMP (MOUNTED ON L. BANK CAMSHAFT)	2.2000	50
FUEL FILTER	2.3000A	221
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	523
MECHANICAL GOVERNOR (VARIABLE SPEED, LESS THROTTLE LEVER)	2.7000A	514
MECHANICAL GOVERNOR (VARIABLE SPEED WITH THROTTLE LEVER)	2.7000A	512
MECHANICAL GOVERNOR (LIMITING SPEED)	2.7000A	515
INJECTOR CONTROLS	2.9000	110
THROTTLE CONTROLS (VARIABLE SPEED GOVERNOR)	2.9000A	553
AIR CLEANER (HEAVY DUTY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	3.1000A	242
AIR INLET HOUSING (MANUAL SHUTDOWN)	3.3000A	186
BLOWER	3.4000	73
BLOWER DRIVE SHAFT	3.4000A	17
OIL PUMP	4.1000A	51
OIL DISTRIBUTION SYSTEM	4.1000B	199
OIL PRESSURE REGULATOR	4.1000C	12
OIL FILTER (MOUNTED ON BLOCK)	4.2000A	135
OIL FILTER (REMOTE MOUNTED)	4.2000A	144
OIL FILTER LINES (REMOTE MOUNTED FILTER, ADAPTOR ONLY)	4.3000A	93
OIL COOLER (ENGINE OIL ONLY)	4.4000A	302
OIL FILLER (IN BOTH ROCKER COVERS)	4.5000A	55
OIL FILLER (IN ONE ROCKER COVER)	4.5000A	18
DIPSTICK	4.6000A	140
OIL PAN (15 DEG. INCLINED OPERATION)	4.7000A	146
VENTILATING SYSTEM STD. EQUIP. PRIOR TO 6D-028	4.8000A	237
VENTILATING SYSTEM	4.8000A	251
FRESH WATER PUMP	5.1000	57
WATER OUTLET ELBOW (VERTICAL)	5.2000A	86
WATER OUTLET ELBOW (30 DEG. INCLINED)	5.2000A	87
THERMOSTAT	5.2000B	86
WATER BY-PASS TUBE	5.2000C	164
WATER CONNECTIONS	5.3000B	156
FAN (SUCTION, 22" - 5 BLADE)	5.4000A	362
FAN (BLOWER, 22" - 5 BLADE)	5.4000A	352
EXHAUST MANIFOLD (WITH MANUAL OR NO SHUTDOWN)	6.1000A	217
EXHAUST MANIFOLD (WITH MECHANICAL SHUTDOWN)	6.1000A	211
EXHAUST FLANGE (3" PIPE THREAD)	6.2000A	234
EXHAUST MUFFLER (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	6.2000A	175
BATTERY CHARGING GENERATOR (12V., 25 AMP.)	7.1000A	769
STARTING MOTOR (12V.)	7.3000A	204
INSTRUMENT PANEL (5' CAPILLARY)	7.4000A	372
INSTRUMENT PANEL (10' CAPILLARY)	7.4000A	373
INSTRUMENT PANEL (15' CAPILLARY)	7.4000A	374
INSTRUMENT PANEL (TACHOMETER ONLY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000A	415
TACHOMETER DRIVE (DRIVEN FROM R. BANK CAMSHAFT) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	7.4000B	208

DETROIT DIESEL 53 MPC ENGINES

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STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
ENGINE MOUNTS (STATIONARY) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A	404
ENGINE MOUNTS (FRONT TRUNNION) (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	11.1000A	380
COLD WEATHER STARTING AID (FACTORY FURNISHED ONLY WHEN TYPE NUMBER APPEARS ON OPTION PLATE.)	12.6000C	3

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	31
AIR BOX DRAINS	1.1000A	62
CYLINDER HEAD	1.2000	26
ENGINE LIFTER BRACKET	1.2000A	44
CRANKSHAFT	1.3000	44
CRANKSHAFT FRONT COVER	1.3000A	65
CRANKSHAFT PULLEY	1.3000C	207
CRANKSHAFT PULLEY BELT	1.3000D	154
FLYWHEEL	1.4000A	705
FLYWHEEL HOUSING	1.5000A	340
CONNECTING ROD AND PISTON	1.6000	60
CAMSHAFT AND GEAR TRAIN	1.7000	35
VALVE OPERATING MECHANISM	1.8000	33
ROCKER COVER	1.8000A	171
FUEL INJECTOR	2.1000A	56
FUEL PUMP	2.2000	72
FUEL FILTER	2.3000A	530
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1101
FUEL TANK	2.6000A	22
MECHANICAL GOVERNOR	2.7000A	514
INJECTOR CONTROLS	2.9000	122
THROTTLE CONTROLS	2.9000A	826
AIR CLEANER	3.1000A	343
AIR INLET HOUSING	3.3000A	403
BLOWER	3.4000	127
BLOWER DRIVE SHAFT	3.4000A	17
OIL PUMP	4.1000A	51
OIL DISTRIBUTION SYSTEM	4.1000B	324
OIL PRESSURE REGULATOR	4.1000C	12
OIL FILTER	4.2000A	236
OIL COOLER	4.4000A	447
OIL FILLER	4.5000A	51
DIPSTICK	4.6000A	553
OIL PAN	4.7000A	241
VENTILATING SYSTEM	4.8000A	248
FRESH WATER PUMP	5.1000	133
WATER OUTLET ELBOW	5.2000A	86
THERMOSTAT	5.2000B	86
WATER BY-PASS TUBE	5.2000C	164
RADIATOR	5.3000A	130
WATER CONNECTIONS	5.3000B	279
FAN	5.4000A	738
FAN SHROUD	5.4000B	66
EXHAUST MANIFOLD	6.1000A	336
EXHAUST MUFFLER CONNECTIONS	6.2000A	361
INSTRUMENTS	7.4000A	784
OVERSPEED GOVERNOR	7.4000C	739
SHUT-OFF	7.4000C	738
POWER TAKE-OFF	8.1000A	320
ENGINE HOODS	10.1000A	134
ENGINE MOUNTS	11.1000A	568
ENGINE BASE	11.1000A	563
COLD WEATHER STARTING AID	12.6000C	57
HYDRAULIC STARTER	12.6000D	184

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	65
AIR BOX DRAINS THRU 8D-434	1.1000A	70
AIR BOX DRAINS EFF. WITH 8D-435	1.1000A	85
CYLINDER HEAD	1.2000	61
ENGINE LIFTER BRACKET	1.2000A	80
CRANKSHAFT THRU 8D-151	1.3000	36
CRANKSHAFT EFF. WITH 8D-152	1.3000	40
CRANKSHAFT FRONT COVER THRU 8D-151	1.3000A	80
CRANKSHAFT FRONT COVER EFF. WITH 8D-152	1.3000A	89
CRANKSHAFT PULLEY	1.3000C	259
FLYWHEEL	1.4000A	660
FLYWHEEL HOUSING	1.5000A	451
CONNECTING ROD AND PISTON	1.6000	68
CAMSHAFT AND GEAR TRAIN THRU 8D-4650	1.7000	62
CAMSHAFT AND GEAR TRAIN EFF. WITH 8D-4651	1.7000	106
VALVE OPERATING MECHANISM	1.8000	50
ROCKER COVER	1.8000A	108
FUEL INJECTOR	2.1000A	93
FUEL PUMP THRU 8D-4719	2.2000	72
FUEL PUMP EFF. WITH 8D-4720 AND THRU 8D-6784	2.2000	131
FUEL PUMP EFF. WITH 8D-6785	2.2000	191
FUEL FILTER THRU 8D-1159	2.3000A	313
FUEL FILTER EFF. WITH 8D-1160	2.3000A	430
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 8D-336	2.5000A	688
FUEL LINES EFF. WITH 8D-337 AND THRU 8D-607	2.5000A	912
FUEL LINES EFF. WITH 8D-608 AND THRU 8D-1211	2.5000A	1007
FUEL LINES EFF. WITH 8D-1212 AND THRU 8D-2700	2.5000A	1015
FUEL LINES EFF. WITH 8D-2701	2.5000A	1116
FUEL LINES	2.5000A	1345
MECHANICAL GOVERNOR	2.7000A	872
INJECTOR CONTROLS	2.9000	163
THROTTLE CONTROLS	2.9000A	805
AIR SILENCER	3.2000A	34
AIR INLET HOUSING	3.3000A	291
BLOWER THRU 8D-4507	3.4000	95
BLOWER EFF. WITH 8D-4508 AND THRU 8D-4650	3.4000	178
BLOWER EFF. WITH 8D-4651	3.4000	183
BLOWER DRIVE SHAFT	3.4000A	31
OIL PUMP THRU 8D-173	4.1000A	78
OIL PUMP EFF. WITH 8D-174 AND THRU 8D-4610	4.1000A	83
OIL PUMP EFF. WITH 8D-4611	4.1000A	130
OIL DISTRIBUTION SYSTEM	4.1000B	423
OIL PRESSURE REGULATOR	4.1000C	16
OIL FILTER	4.2000A	240
OIL FILTER LINES	4.3000A	139
OIL COOLER (ENGINE)	4.4000A	421
OIL COOLER (MARINE GEAR)	4.4000A	601
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	508
OIL PAN	4.7000A	338
VENTILATING SYSTEM	4.8000A	541
FRESH WATER PUMP THRU 8D-3940	5.1000	98
FRESH WATER PUMP EFF. WITH 8D-3941	5.1000	154
THERMOSTAT	5.2000B	88
WATER BY-PASS TUBE	5.2000C	401
WATER CONNECTIONS	5.3000B	228
HEAT EXCHANGER	5.5000A	384
RAW WATER PUMP	5.6000A	54
EXHAUST MANIFOLD THRU 8D-3520	6.1000A	126
EXHAUST MANIFOLD EFF. WITH 8D-3521	6.1000A	397
EXHAUST MUFFLER CONNECTIONS	6.2000A	187
BATTERY CHARGING GENERATOR	7.1000A	1264
STARTING MOTOR	7.3000A	208
HYDRAULIC MARINE GEAR	9.1000A	836
ENGINE MOUNTS	11.1000A	582

STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	65
AIR BOX DRAINS THRU 8D-434	1.1000A	68
AIR BOX DRAINS EFF. WITH 8D-435	1.1000A	84
CYLINDER HEAD	1.2000	61
ENGINE LIFTER BRACKET STD. EQUIP. PRIOR TO 8D-115	1.2000A	97
CRANKSHAFT THRU 8D-151	1.3000	36
CRANKSHAFT EFF. WITH 8D-152	1.3000	40
CRANKSHAFT FRONT COVER	1.3000A	89
CRANKSHAFT PULLEY	1.3000C	261
CRANKSHAFT PULLEY BELT	1.3000D	185
FLYWHEEL	1.4000A	573
FLYWHEEL HOUSING	1.5000A	381
CONNECTING ROD AND PISTON	1.6000	68
CAMSHAFT AND GEAR TRAIN THRU 8D-4650	1.7000	62
CAMSHAFT AND GEAR TRAIN EFF. WITH 8D-4651	1.7000	106
VALVE OPERATING MECHANISM	1.8000	50
ROCKER COVER	1.8000A	183
FUEL INJECTOR	2.1000A	76
FUEL PUMP	2.2000	140
FUEL FILTER	2.3000A	329
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES	2.5000A	1341
MECHANICAL GOVERNOR	2.7000A	900
INJECTOR CONTROLS	2.9000	136
THROTTLE CONTROLS	2.9000A	712
AIR INLET HOUSING	3.3000A	151
BLOWER	3.4000	95
BLOWER DRIVE SHAFT	3.4000A	31
OIL PUMP	4.1000A	130
OIL DISTRIBUTION SYSTEM	4.1000B	301
OIL PRESSURE REGULATOR	4.1000C	16
OIL FILTER	4.2000A	236
OIL COOLER	4.4000A	415
OIL FILLER	4.5000A	18
DIPSTICK	4.6000A	515
OIL PAN	4.7000A	361
VENTILATING SYSTEM	4.8000A	533
FRESH WATER PUMP THRU 8D-3884	5.1000	97
FRESH WATER PUMP EFF. WITH 8D-3885	5.1000	153
WATER OUTLET ELBOW	5.2000A	106
THERMOSTAT STD. EQUIP. PRIOR TO 8D-2556	5.2000B	86
WATER BY-PASS TUBE	5.2000C	216
FAN	5.4000A	573
EXHAUST MANIFOLD	6.1000A	218
EXHAUST MUFFLER CONNECTIONS	6.2000A	243
BATTERY CHARGING GENERATOR 24V., 30 AMP.	7.1000A	1101
STARTING MOTOR	7.3000A	35
INSTRUMENTS	7.4000A	372

DETROIT DIESEL 53 MPC ENGINES

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STANDARD AND STANDARD OPTION EQUIPMENT

GROUP NAME	GROUP NO.	TYPE
CYLINDER BLOCK	1.1000	105
AIR BOX DRAINS	1.1000A	96
CYLINDER HEAD	1.2000	61
ENGINE LIFTER BRACKET	1.2000A	159
CRANKSHAFT	1.3000	48
CRANKSHAFT FRONT COVER	1.3000A	110
FLYWHEEL	1.4000A	736
FLYWHEEL HOUSING	1.5000A	447
CONNECTING ROD AND PISTON	1.6000	110
CAMSHAFT AND GEAR TRAIN	1.7000	62
VALVE OPERATING MECHANISM	1.8000	62
ROCKER COVER	1.8000A	239
FUEL INJECTOR THRU 8D-4568	2.1000A	80
FUEL INJECTOR EFF. WITH 8D-4569. STD. EQUIP. THRU 8D-5783	2.1000A	102
FUEL PUMP THRU 8D-4704	2.2000	102
FUEL PUMP EFF. WITH 8D-4705	2.2000	159
FUEL FILTER	2.3000A	508
FUEL MANIFOLD CONNECTIONS	2.4000	48
FUEL LINES THRU 8D-4666	2.5000A	1045
FUEL LINES EFF. WITH 8D-4667	2.5000A	1321
MECHANICAL GOVERNOR	2.7000A	1204
INJECTOR CONTROLS	2.9000	193
AIR INLET HOUSING	3.3000A	468
BLOWER	3.4000	177
BLOWER DRIVE SHAFT	3.4000A	31
TURBOCHARGER	3.5000A	163
OIL PUMP	4.1000A	112
OIL DISTRIBUTION SYSTEM	4.1000B	362
OIL PRESSURE REGULATOR	4.1000C	16
OIL FILTER	4.2000A	127
OIL COOLER	4.4000A	569
OIL FILLER	4.5000A	55
DIPSTICK	4.6000A	623
OIL PAN	4.7000A	542
VENTILATING SYSTEM	4.8000A	585
FRESH WATER PUMP	5.1000	134
THERMOSTAT	5.2000B	191
WATER BY-PASS TUBE	5.2000C	295
WATER CONNECTIONS	5.3000B	288
EXHAUST MANIFOLD	6.1000A	356
STARTING MOTOR	7.3000A	244
TACHOMETER DRIVE STD. EQUIP. PRIOR TO 8D-6730	7.4000B	1
AIR HEATER	7.8000A	172

GROUP NOMENCLATURE

1.0000 ENGINE (less major assemblies)		5.0000 COOLING SYSTEM (CONT'D)	
1.1000	Cylinder Block	5.3000B	Water Connections
1.1000A	Air Box Drains	5.4000A	Fan
1.2000	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Lifter Bracket	5.5000A	Heat Exchanger or Keel Cooling
1.3000	Crankshaft, Oil Seals and Stabilizers	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Vibration Damper		
1.3000C	Crankshaft Pulley	6.0000 EXHAUST SYSTEM	
1.3000D	Crankshaft Pulley Belt	6.1000A	Exhaust Manifold and/or Connections
1.4000A	Flywheel	6.2000A	Exhaust Muffler and/or Connections
1.5000A	Flywheel Housing		
1.5000B	Flywheel Housing Adaptor	7.0000 ELECTRICAL INSTRUMENTS	
1.6000	Connecting Rod and Piston	7.1000A	Battery Charging Generator
1.7000	Camshaft and Gear Train	7.2000A	Battery Cables
1.7000A	Balance Weight Cover	7.2000B	Automatic Starting
1.7000B	Accessory Drive	7.2000C	Automatic Starting (Twin and Quad)
1.8000	Valve Injector Operating Mechanism	7.3000A	Starting Motor
1.8000A	Rocker Cover	7.4000A	Instruments
		7.4000A	Instruments (Twin and Quad)
2.0000 FUEL SYSTEM		7.4000B	Tachometer Drive
2.1000A	Fuel Injector	7.4000B	Tachometer Drive (Twin and Quad)
2.1000B	Electronic Injector Controls	7.4000C	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A	Fuel Pump Drain	7.5000A	Power Generator
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.6000A	Control Cabinet (Twin and Quad)
2.4000	Fuel Manifold and/or Connections	7.7000A	Wiring Harness
2.4000A	Dual Fuel System	7.8000A	Air Heater
2.5000A	Fuel Lines and Fuel Cooler	7.8000A	Air Heater (Twin and Quad)
2.6000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.1000A	Hydraulic Governor Solenoid
2.6000A	Fuel Tank		
2.6000B	Electric Governor	8.0000 POWER TAKE-OFF	
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch
2.8000A	Hydraulic Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.9000	Injector Controls	8.3000A	Torque Converter
2.9000	Injector Controls (Twin and Quad)	8.3000A	Torque Converter (Twin and Quad)
2.9000A	Throttle Controls	8.3000B	Transmission Lines
2.9000A	Throttle Controls (Twin and Quad)		
3.0000 AIR SYSTEM		9.0000 TRANSMISSION AND PROPULSION	
3.1000A	Air Cleaner and/or Adaptor	9.1000A	Hydraulic Marine Gear
3.2000A	Air Silencer	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.2000A	Reverse and Reduction Gear (mechanical)
3.3000C	Air Intake Manifold	9.3000A	Power Transfer Gear
3.4000	Blower and Drive	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.4000	Transmission—Highway
3.4000B	Slicer End Plate Cover	9.7000	Transmission—Off-highway
3.5000A	Turbocharger, Intercooler, and Aftercooler	9.9000	Transmission—Rail Car
4.0000 LUBRICATING SYSTEM		10.0000 SHEET METAL	
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System		
4.1000C	Oil Pressure Regulator	11.0000 ENGINE MOUNTING	
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000A	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filter	12.0000 MISCELLANEOUS	
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A	Ventilating System	12.4000A	Air Compressor
5.0000 COOLING SYSTEM		12.5000A	Hydraulic Pump
5.1000	Fresh Water Pump	12.6000A	Gasoline Starter
5.1000A	Fresh Water Pump Cover	12.6000B	Air Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000C	Cold Weather Starting Aid
5.2000B	Thermostat	12.6000D	Hydraulic Starter
5.2000C	Water Bypass Tube	12.6000E	Hydraulic Starter Accessories
5.3000A	Radiator	12.8000A	Supplies
		12.8000B	Fabrication Material
		12.8000C	Miscellaneous Service Kits and Sets
		12.8000D	Miscellaneous Service Parts

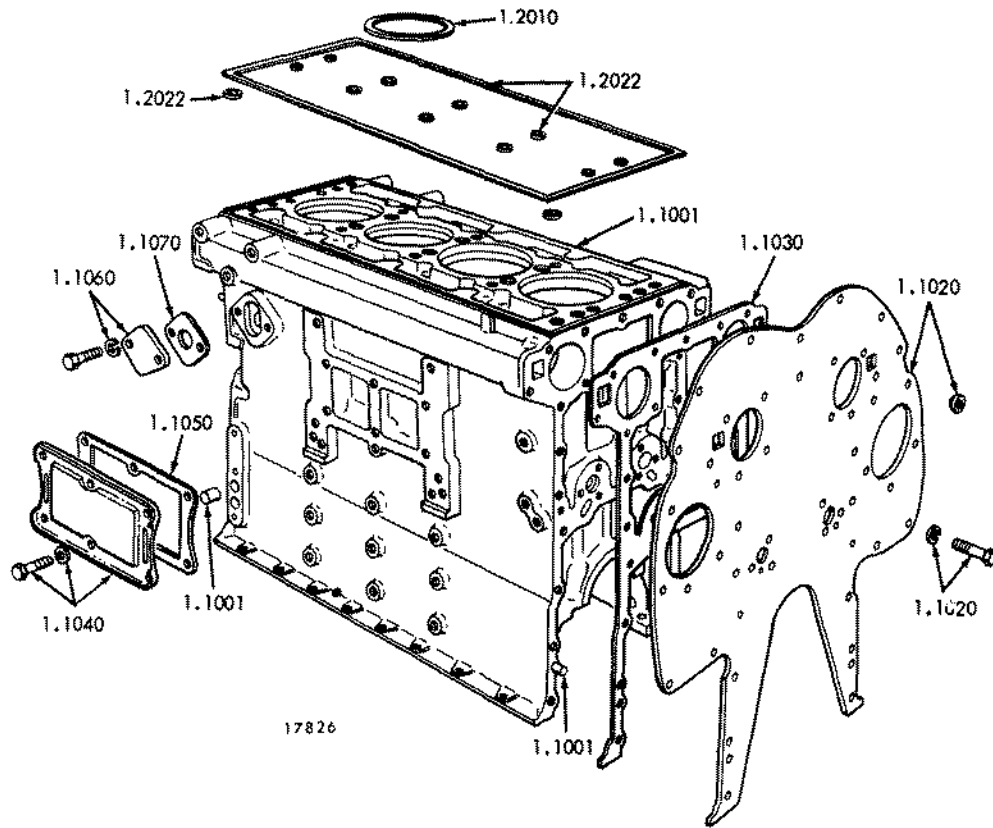


FIG. 1A - CYLINDER BLOCK (IN-LINE MODELS)

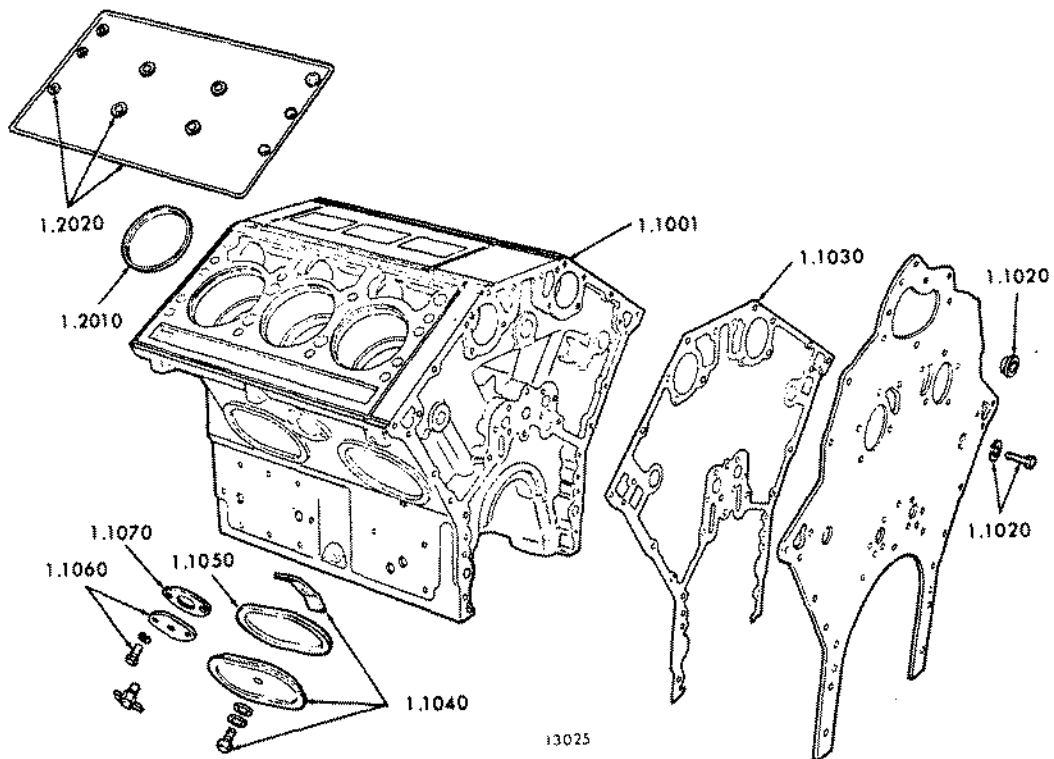


FIG. 1B - CYLINDER BLOCK (V-MODELS)

Figs. 1A & 1B of 1.0000

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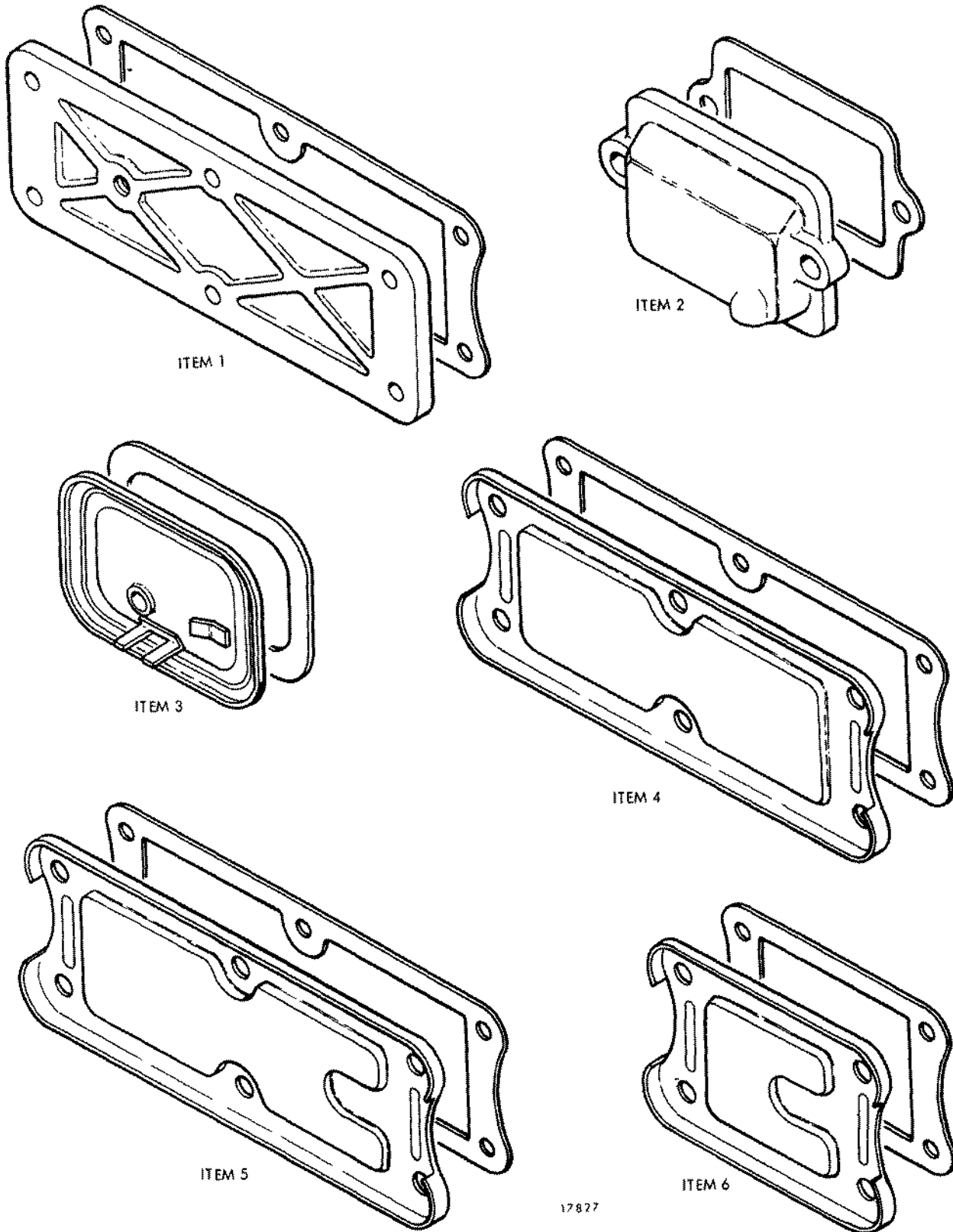


FIG. 1C - CYLINDER BLOCK HAND HOLE COVER

Fig. 1C of 1.0000

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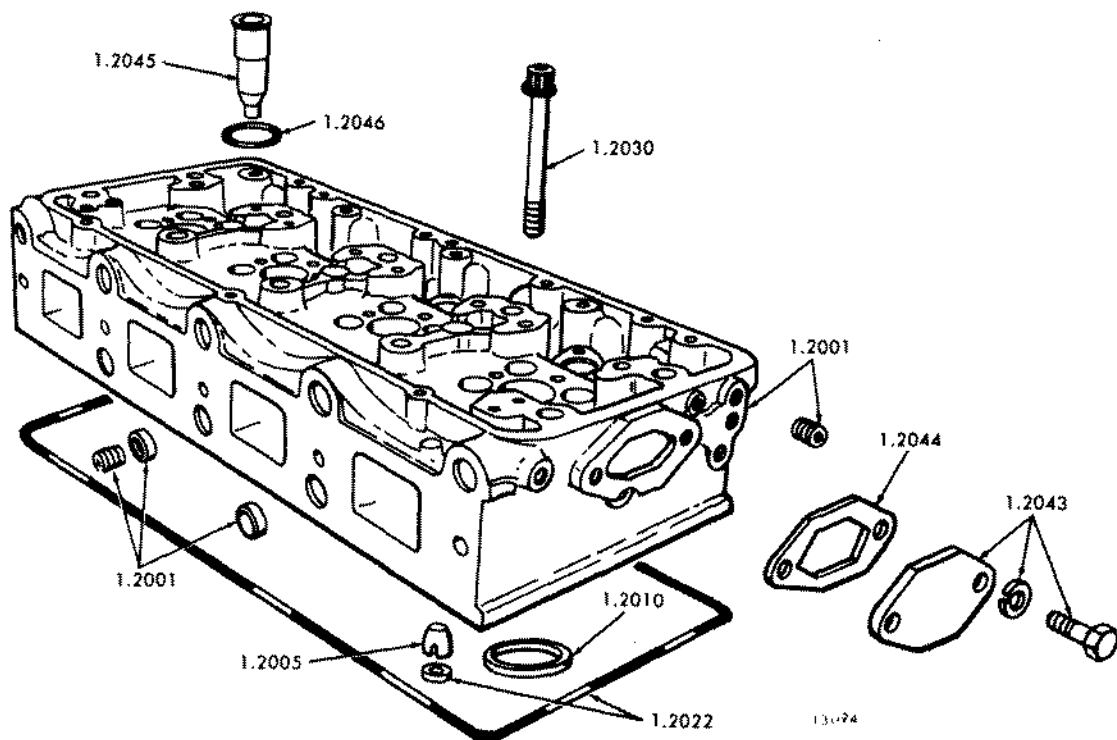


FIG. 2A CYLINDER HEAD

Fig. 2A of 1.0000

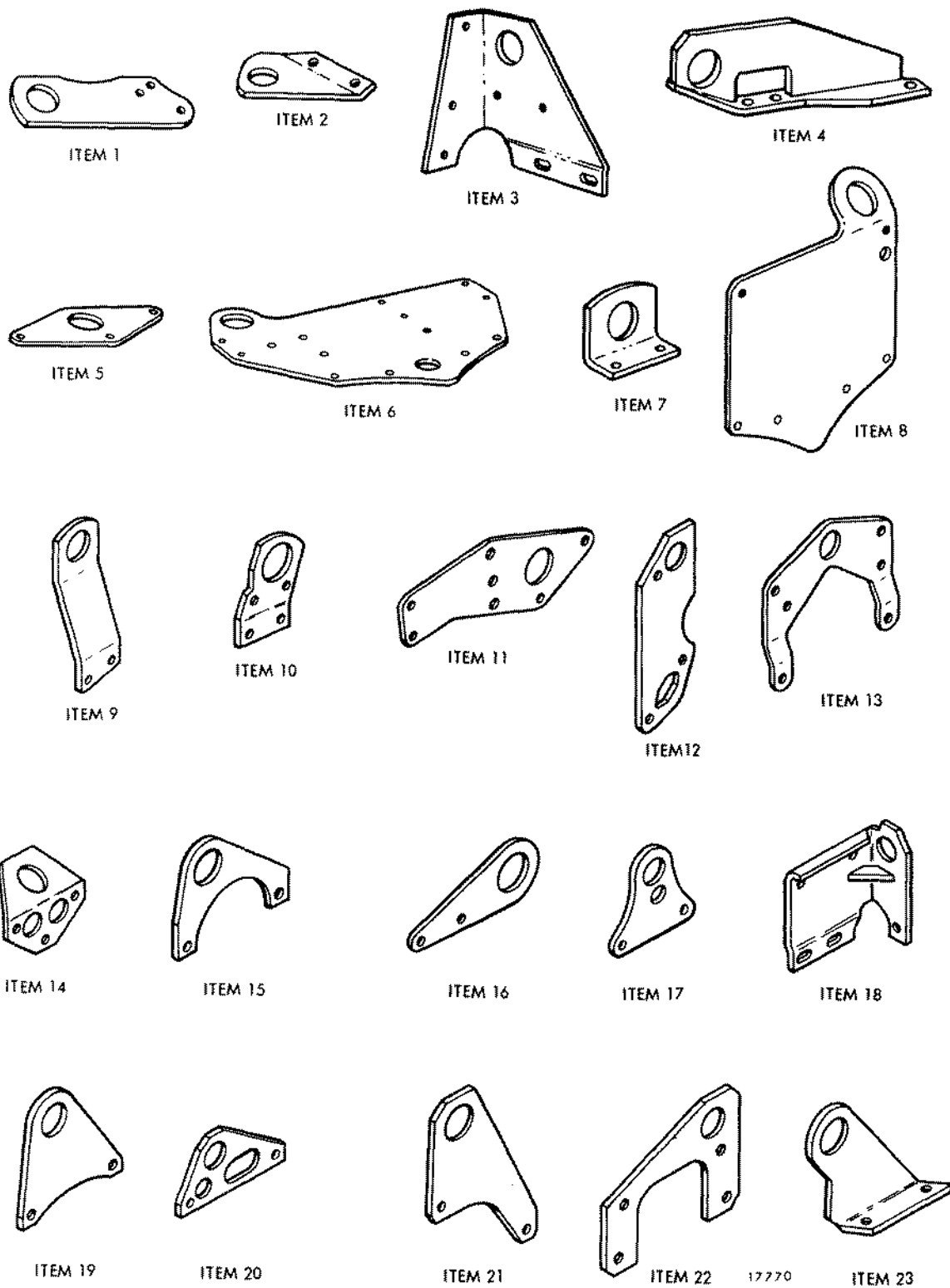


FIG. 2B LIFTER BRACKETS

Fig. 2B of 1.0000

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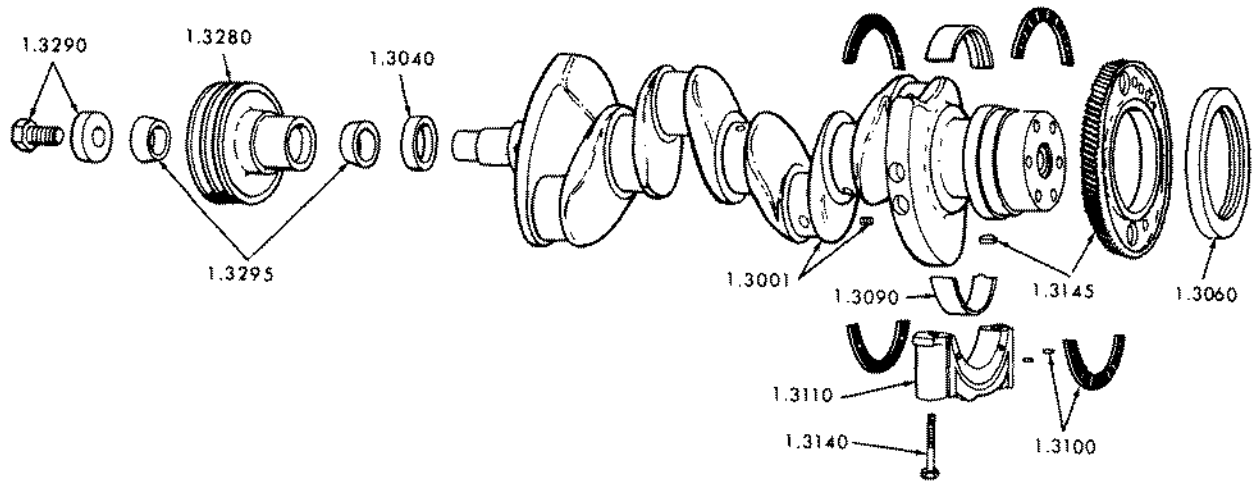


FIG. 3A - CRANKSHAFT (4-53)

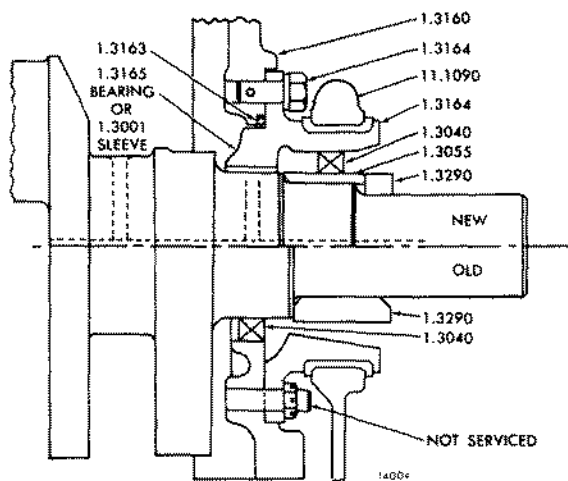


FIG. 3B-CRANKSHAFT (8V-53)

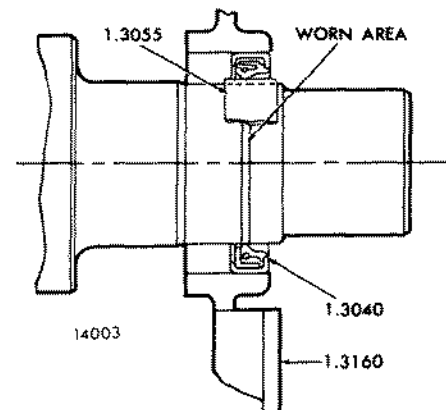


FIG. 3C-CRANKSHAFT (2-3-4-6V-53)

Figs. 3A, 3B of 3C of 1.0000

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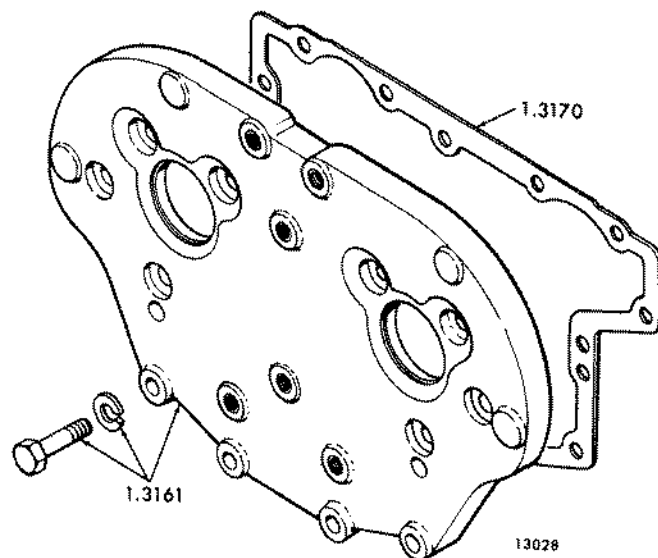


FIG. 4A - UPPER FRONT COVER (IN-LINE MODELS)

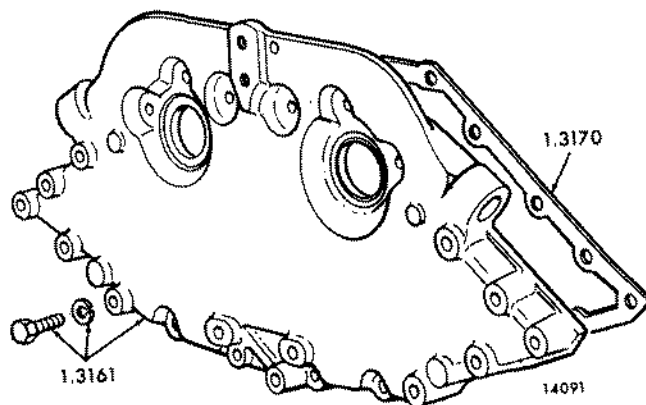


FIG. 4B - UPPER FRONT COVER (6V-MODELS)

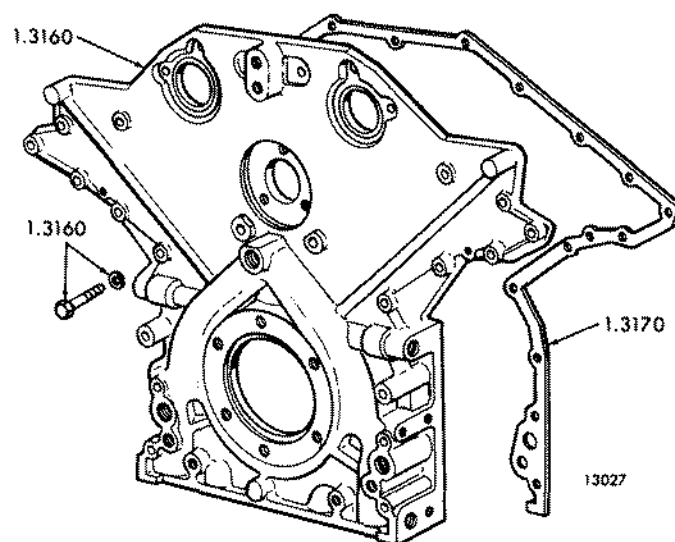


FIG. 4C - FRONT COVER (8V-MODELS)

Figs. 4A, 4B & 4C 1.0000

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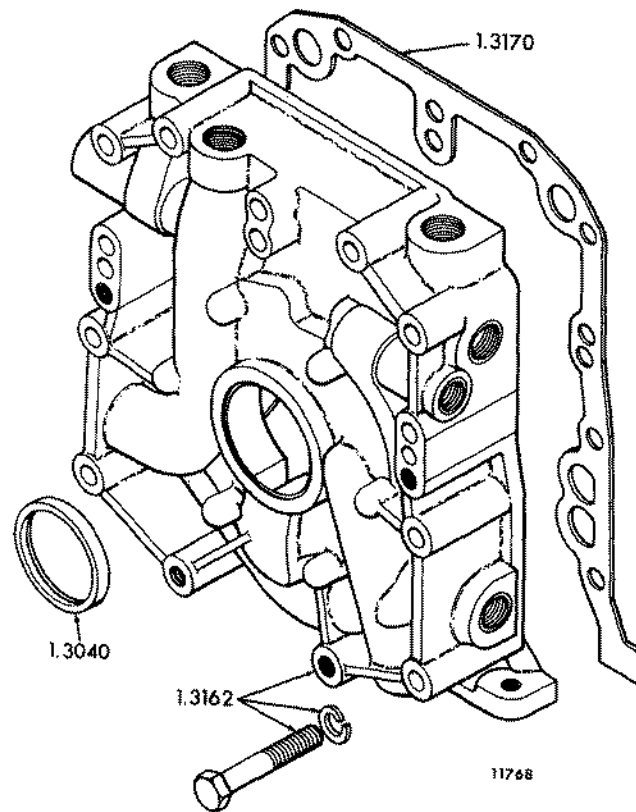


FIG. 4D - LOWER FRONT COVER (IN-LINE MODELS)

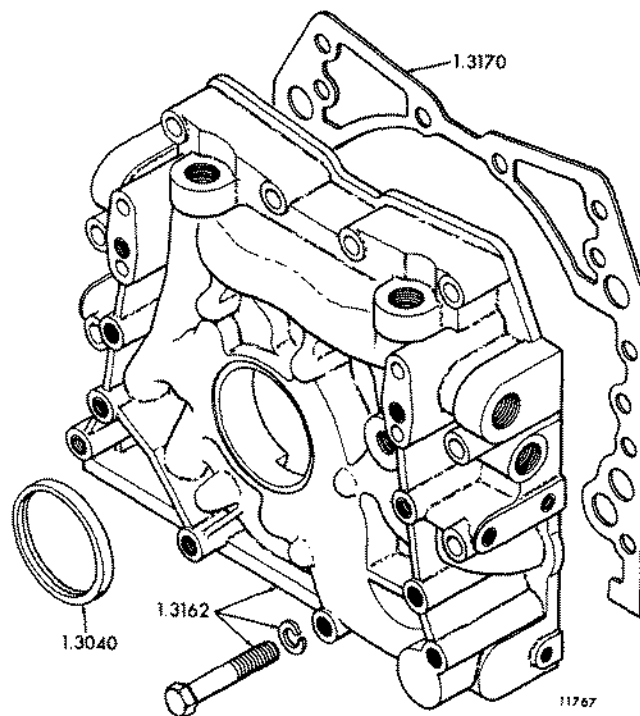


FIG. 4E - LOWER FRONT COVER (6V-MODELS)

Figs. 4D & 4E of 1.0000

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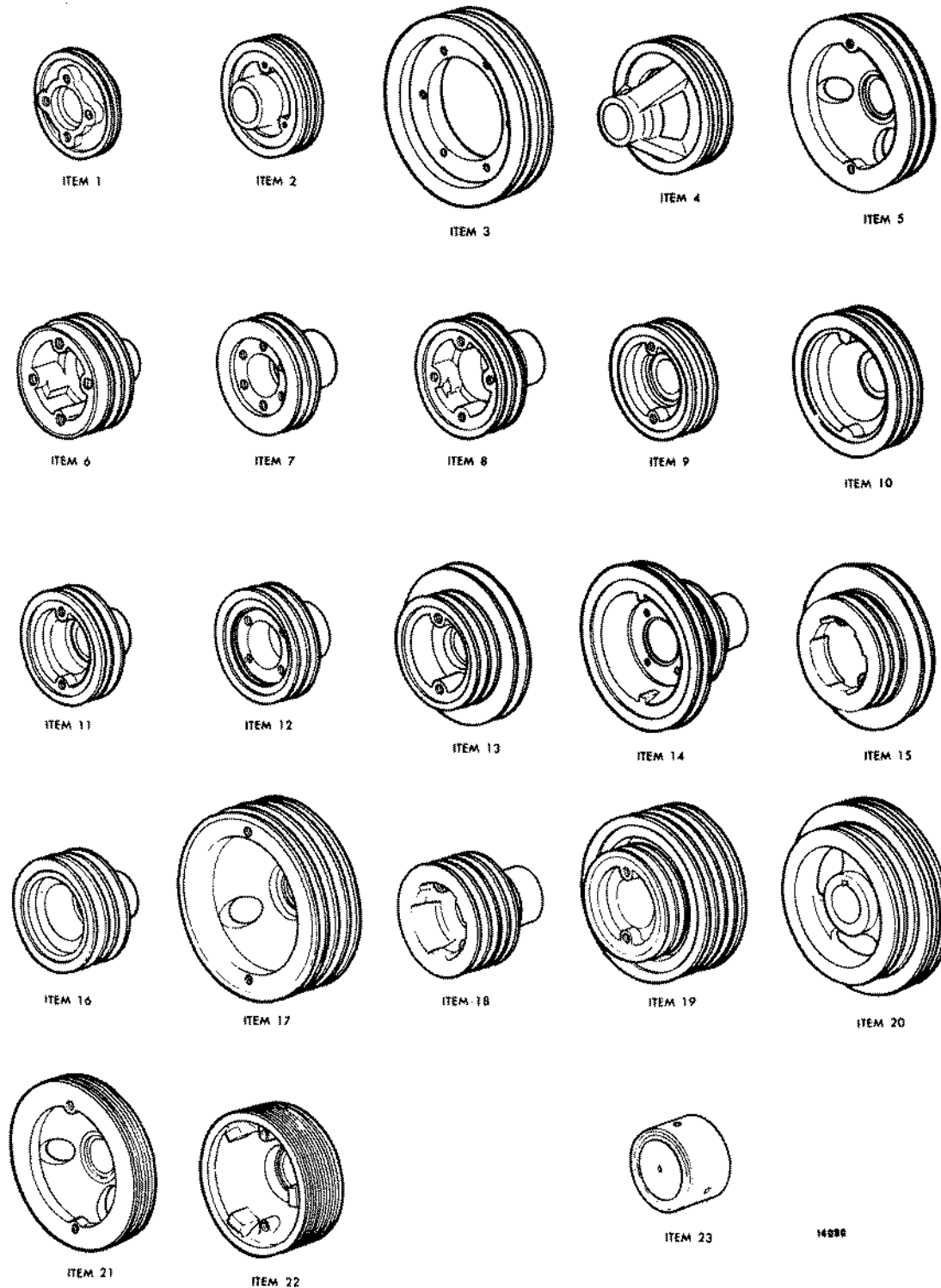


FIG. 4F - CRANKSHAFT PULLEYS

Fig. 4F of 1.0000

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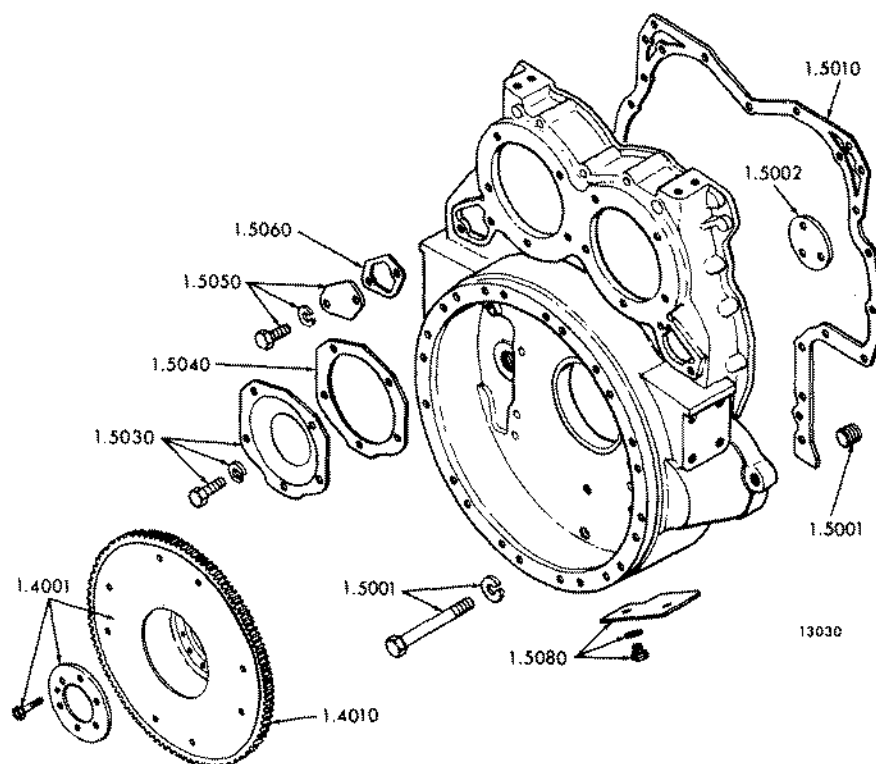


FIG. 5A - FLYWHEEL AND FLYWHEEL HOUSING (IN-LINE MODELS)

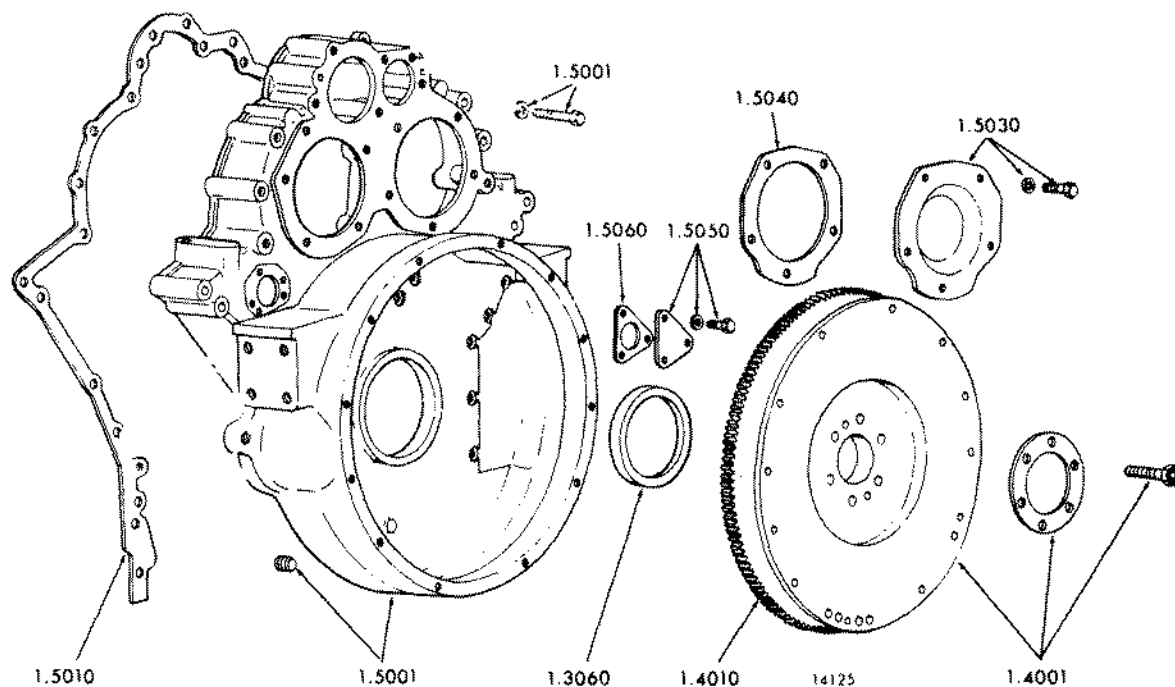


FIG. 5B - FLYWHEEL AND FLYWHEEL HOUSING (V-MODELS)

Figs. 5A & 5B of 1.0000

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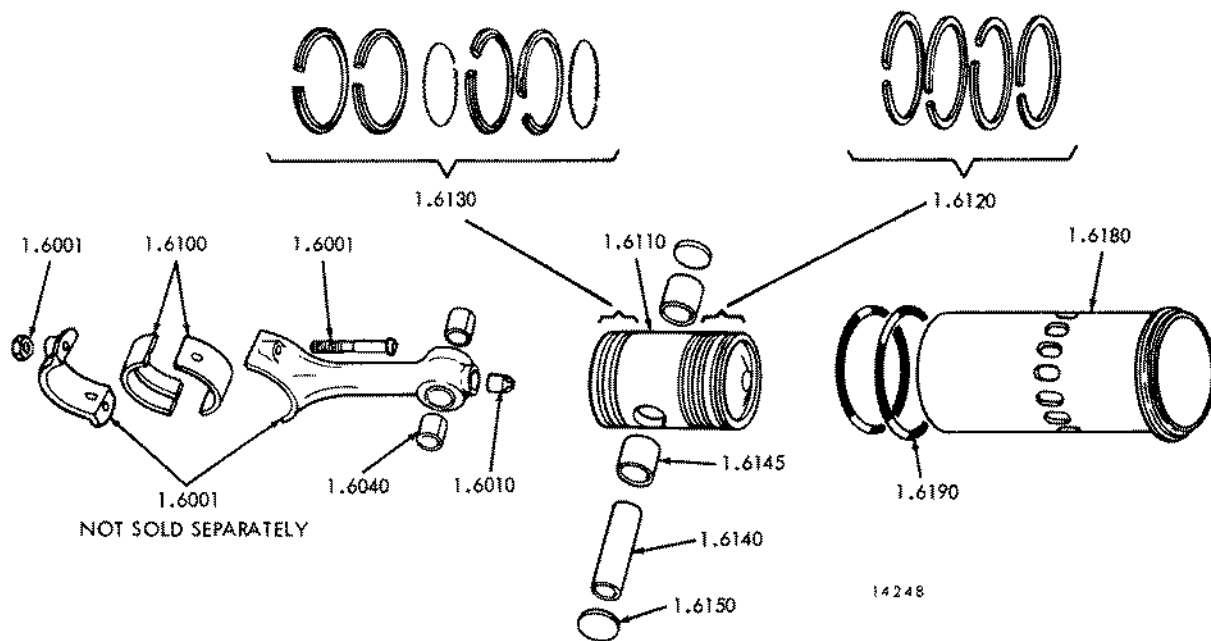


FIG. 6A CONNECTING ROD, PISTON AND LINER

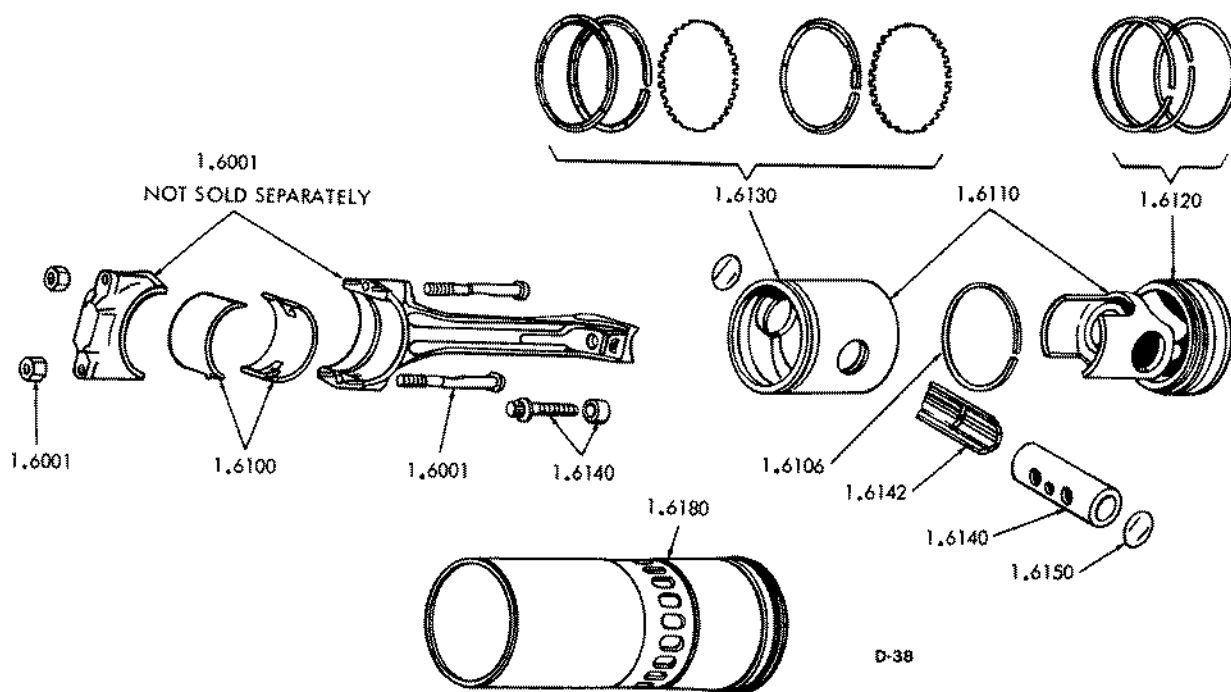


FIG. 6B CONNECTING ROD, PISTON AND LINER (CROSS HEAD)

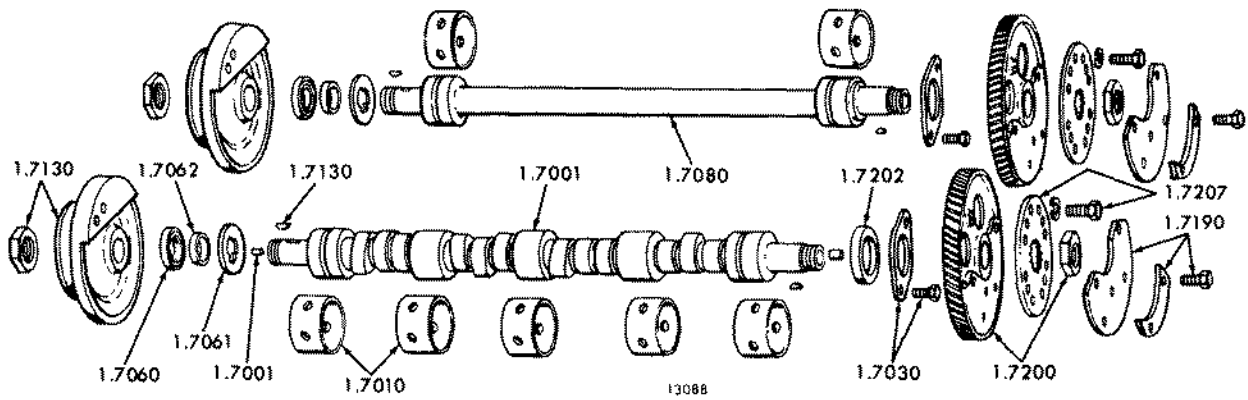


FIG. 7A - CAMSHAFT (IN-LINE MODELS)

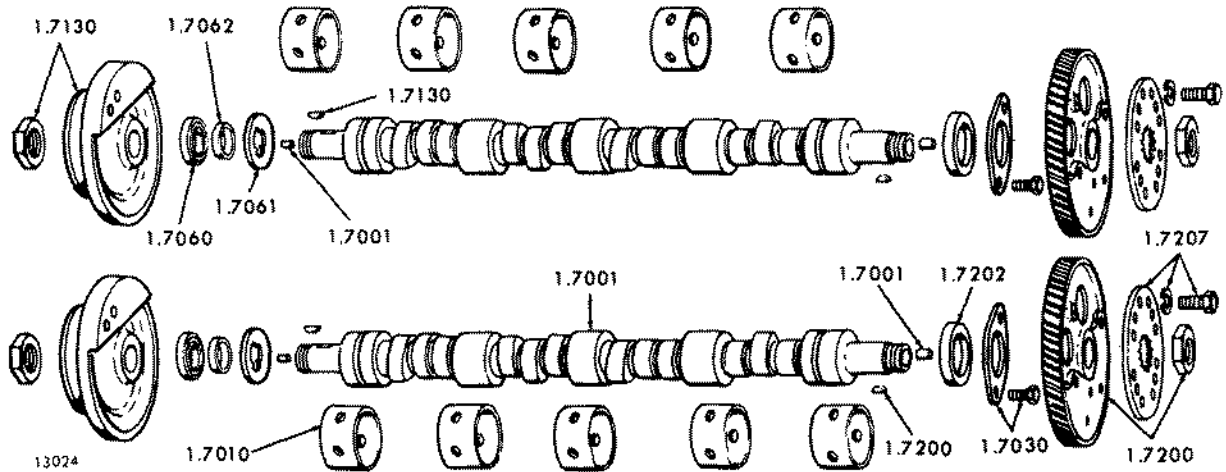


FIG. 7B - CAMSHAFT (V-MODELS)

Figs. 7A & 7B of 1.0000

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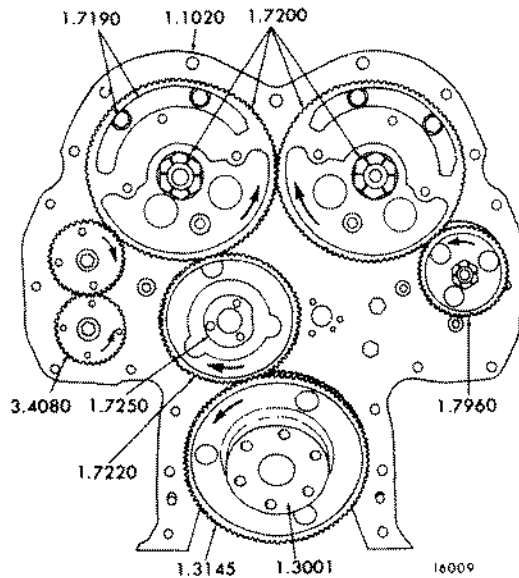


FIG. 7C-GEAR TRAIN (IN-LINE MODELS)

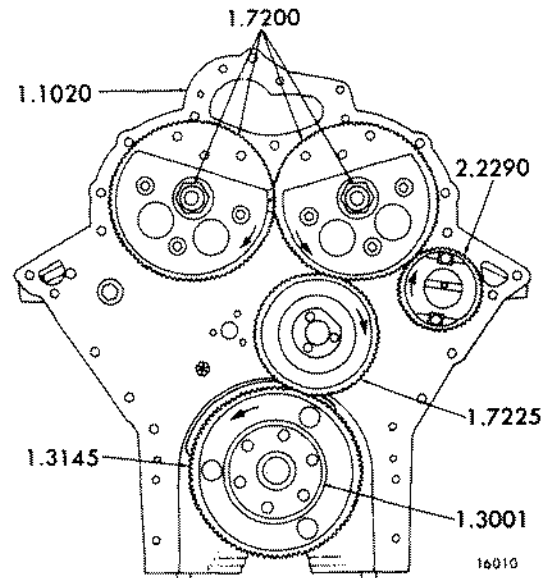


FIG. 7D-GEAR TRAIN (6V-MODELS)

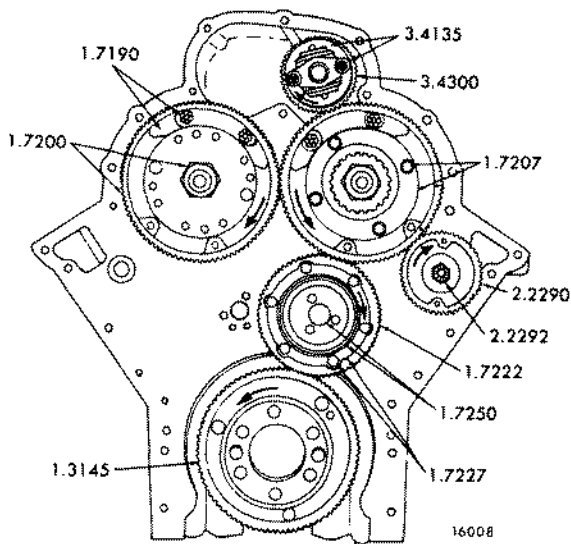


FIG. 7E - GEAR TRAIN (8V-MODELS)

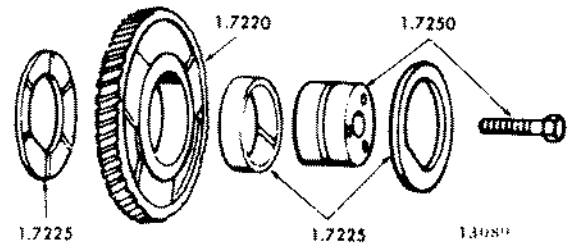


FIG. 7F - IDLER GEAR

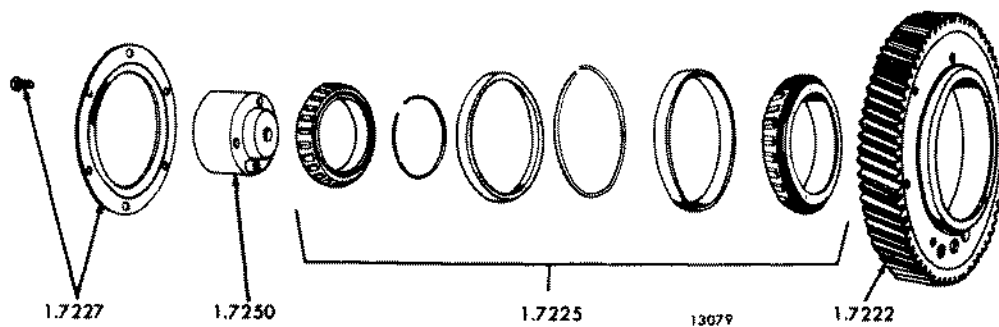


FIG. 7G - IDLER GEAR (8V - MODELS)

Figs. 7C, 7D, 7E, 7F & 7G of 1.0000

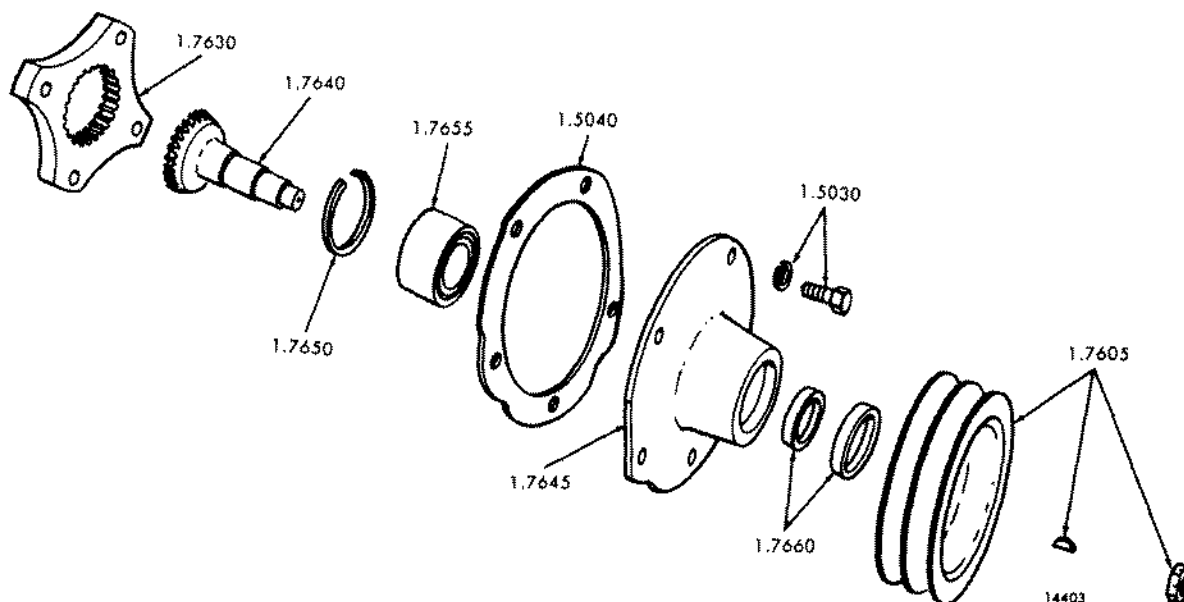


FIG. 8A - ACCESSORY DRIVE (DOUBLE BELT)

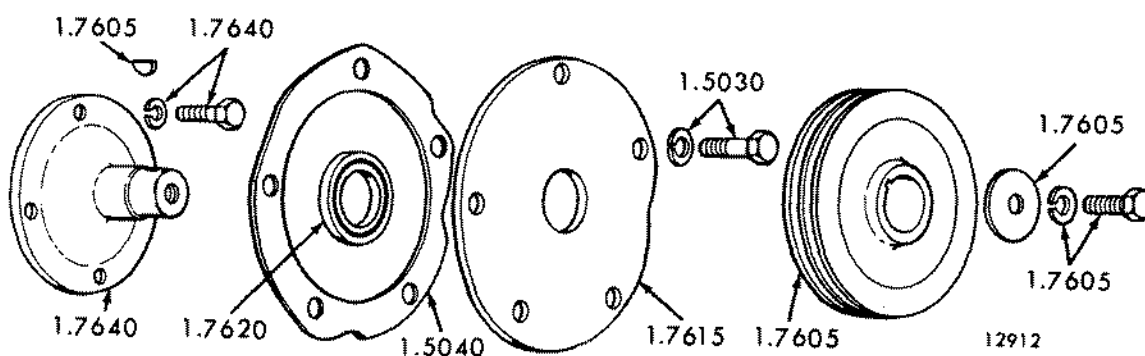


FIG. 8B - ACCESSORY DRIVE (SINGLE BELT)

Figs. 8A & 8B of 1.0000

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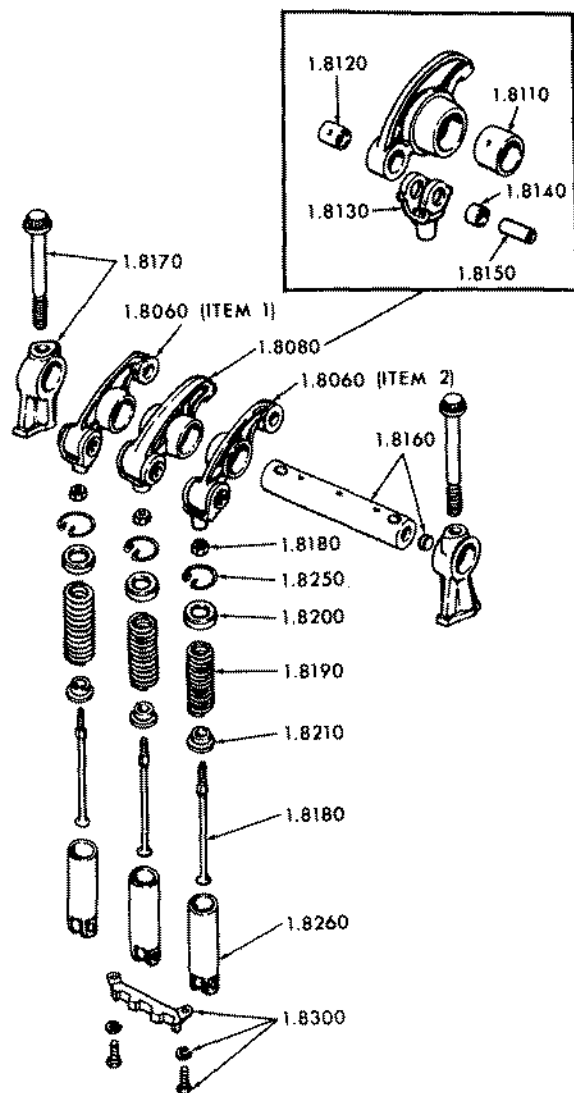


FIG. 9A
Valve and Injector
Operating Mechanism

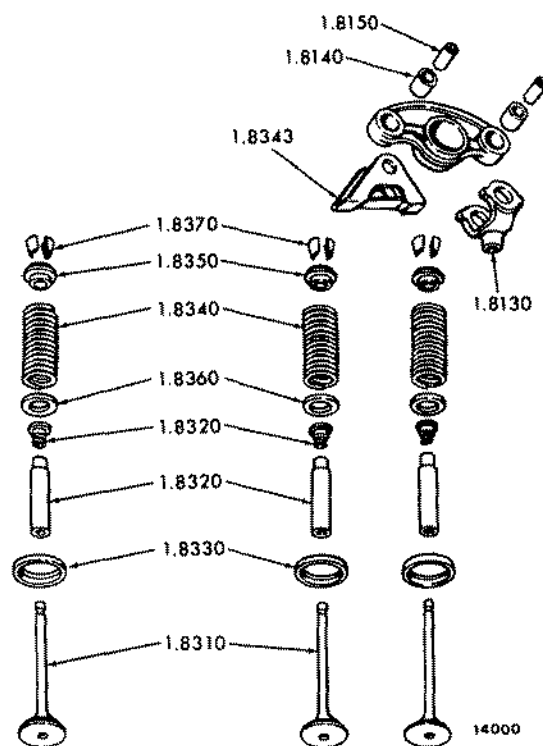


FIG. 9B
2 Valve

FIG. 9C
4 Valve
(with Bridge)

VALVE OPERATING MECHANISM

Figs. 9A, 9B & 9C of 1.0000

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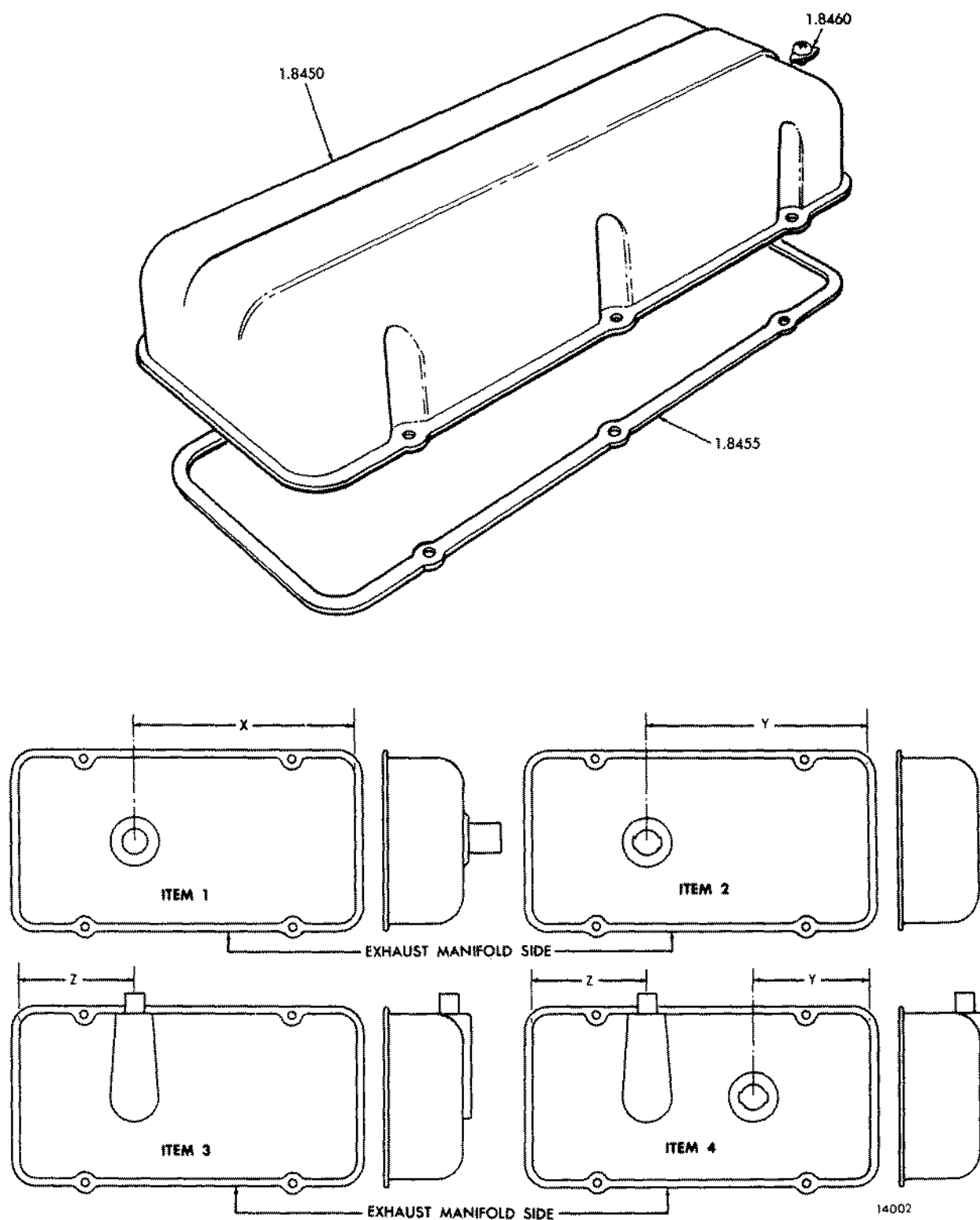
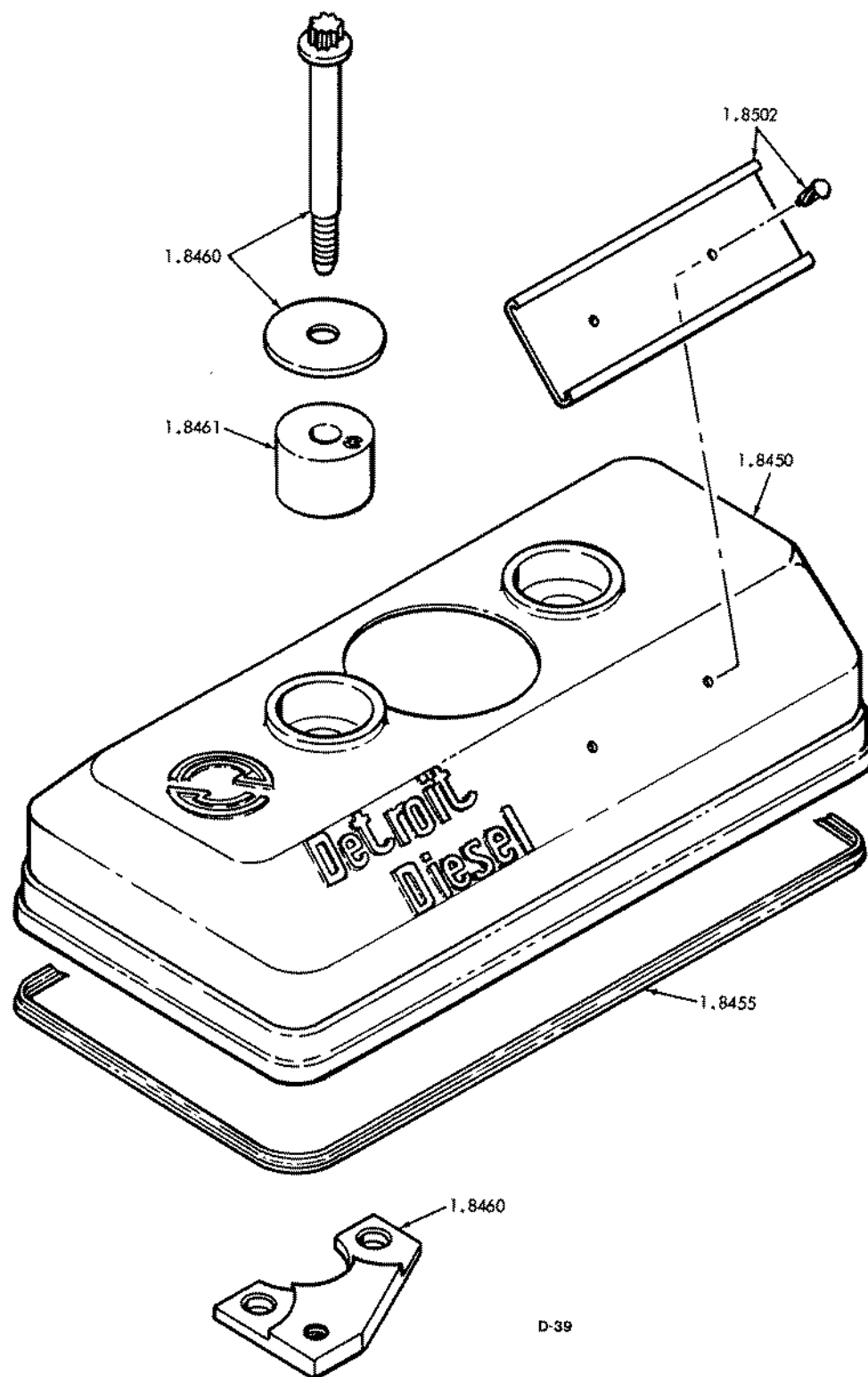


FIG. 9D - ROCKER COVER

Fig. 9D of 1.0000

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D-39

FIG. 9E ROCKER COVER (CAST)

Fig. 9E of 1.0000

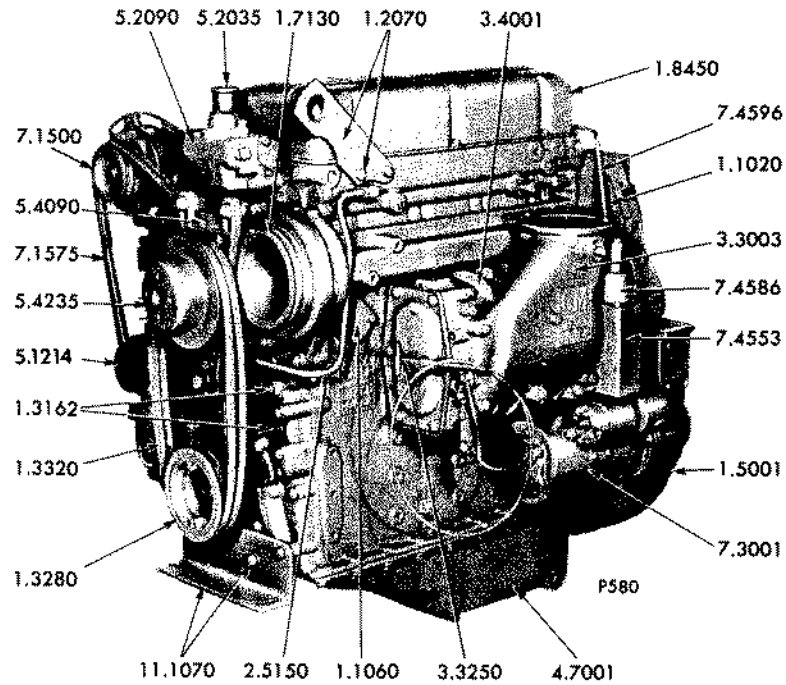


FIG. 10A TYPICAL FAN TO FLYWHEEL

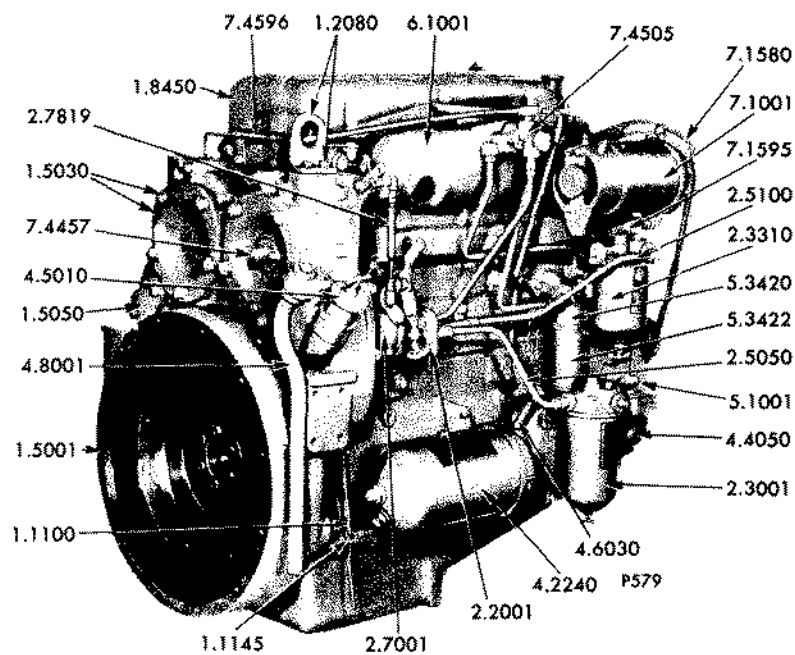


FIG. 10B TYPICAL FAN TO FLYWHEEL

Figs. 10A & 10B of 1.0000

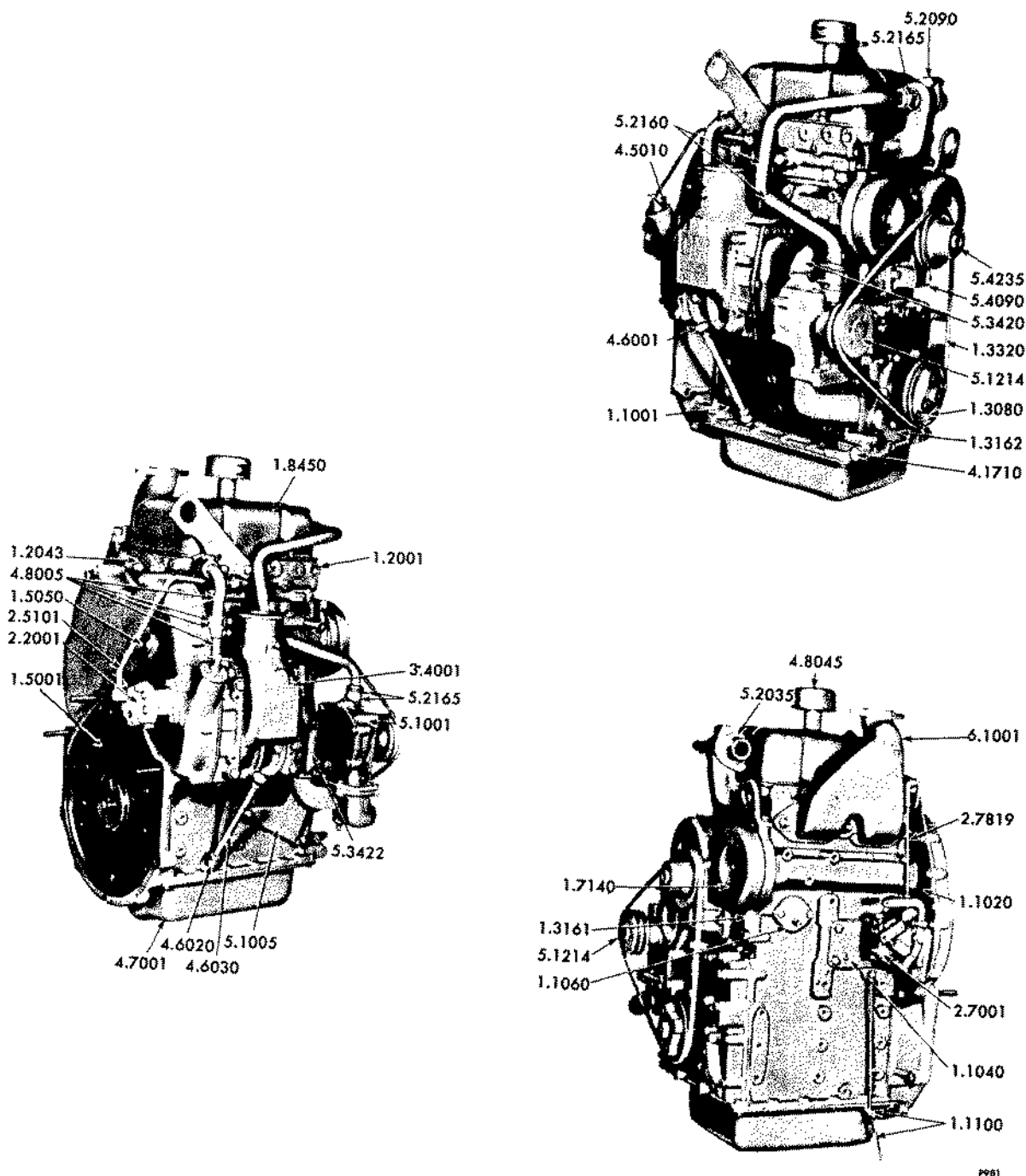


FIG. 10C MODEL 5023-7121 (J. DEERE)

Fig. 10C of 1.0000

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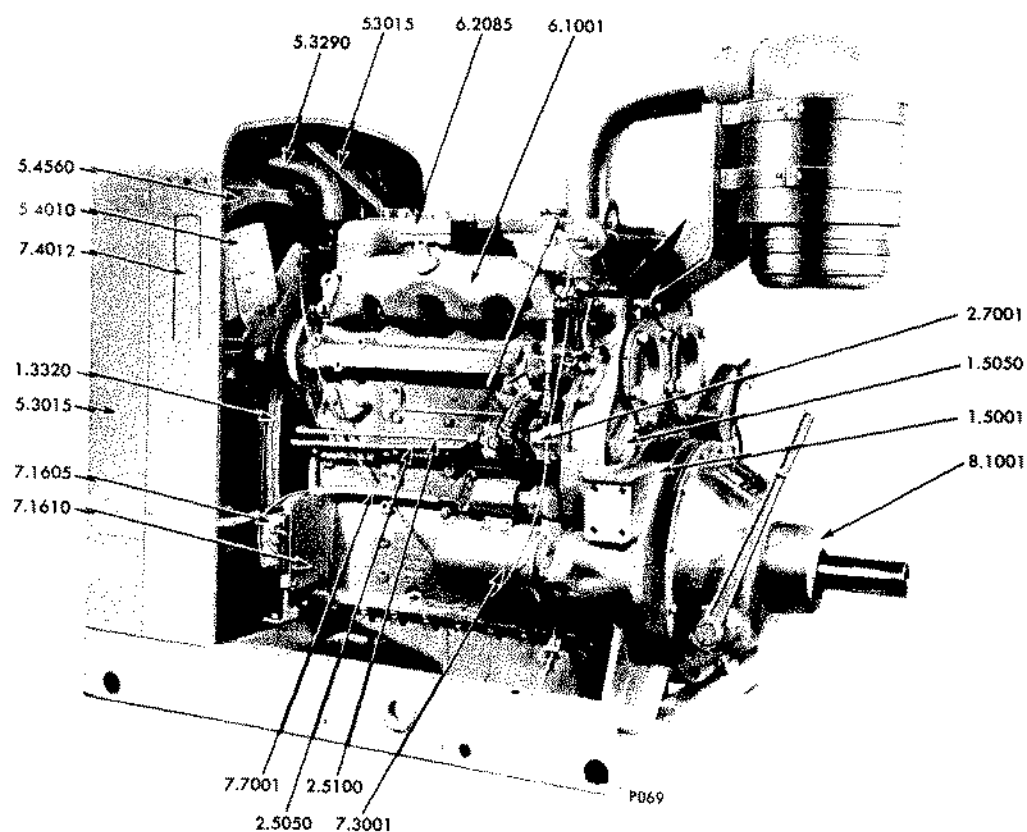
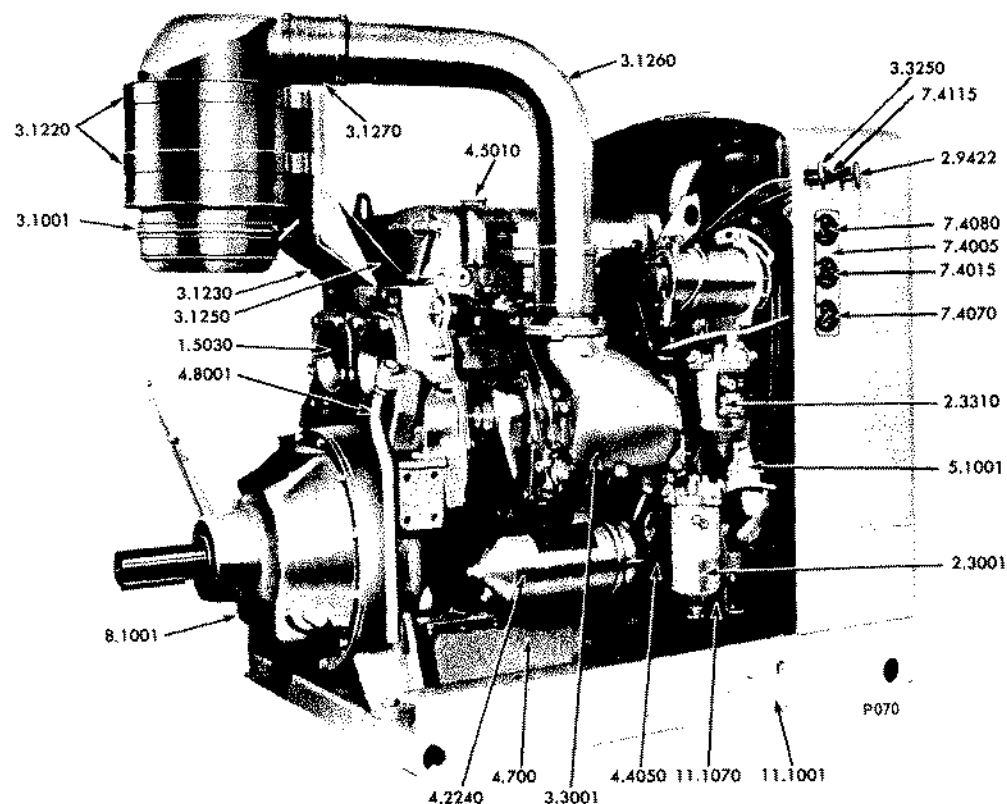


FIG. 10D TYPICAL POWER-BASE UNIT

Fig. 10D of 1.0000

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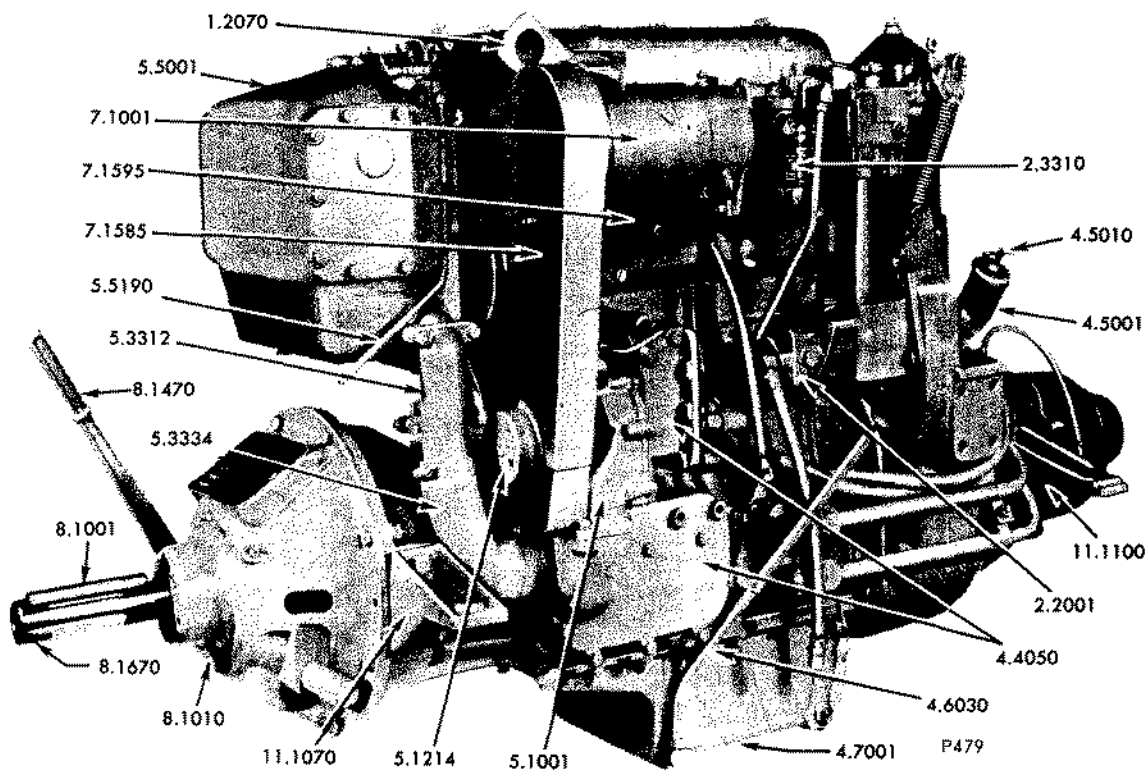
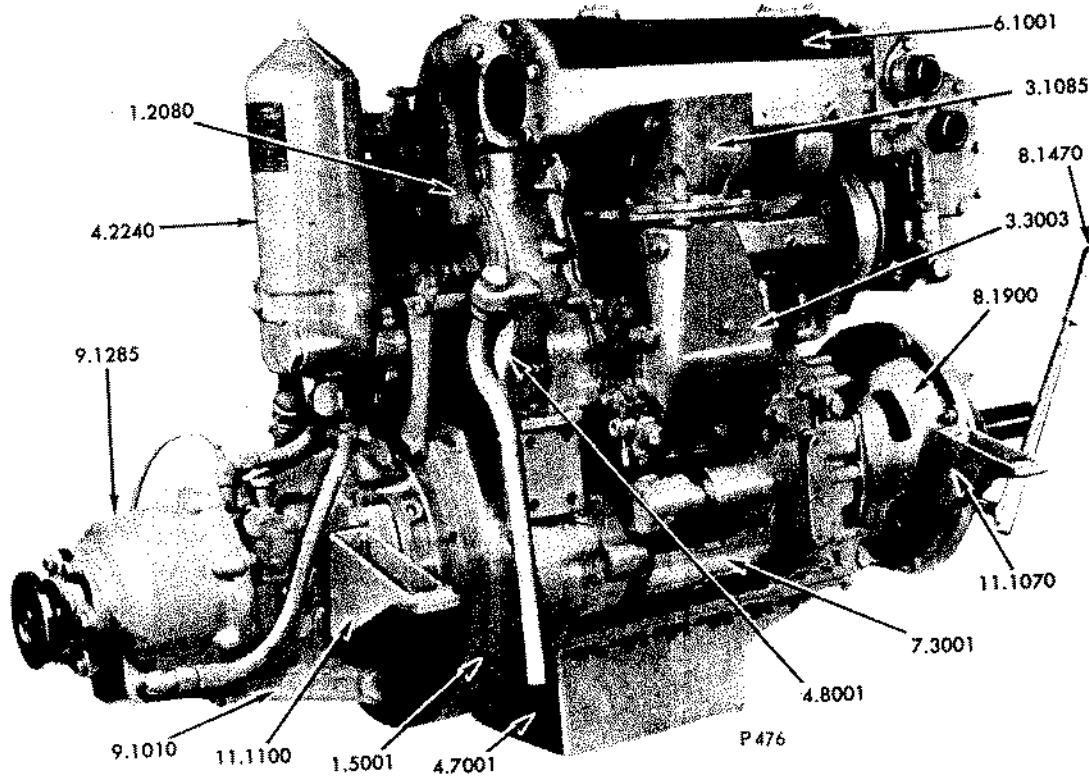


FIG. 10E TYPICAL MARINE UNIT

Fig. 10E of 1.0000

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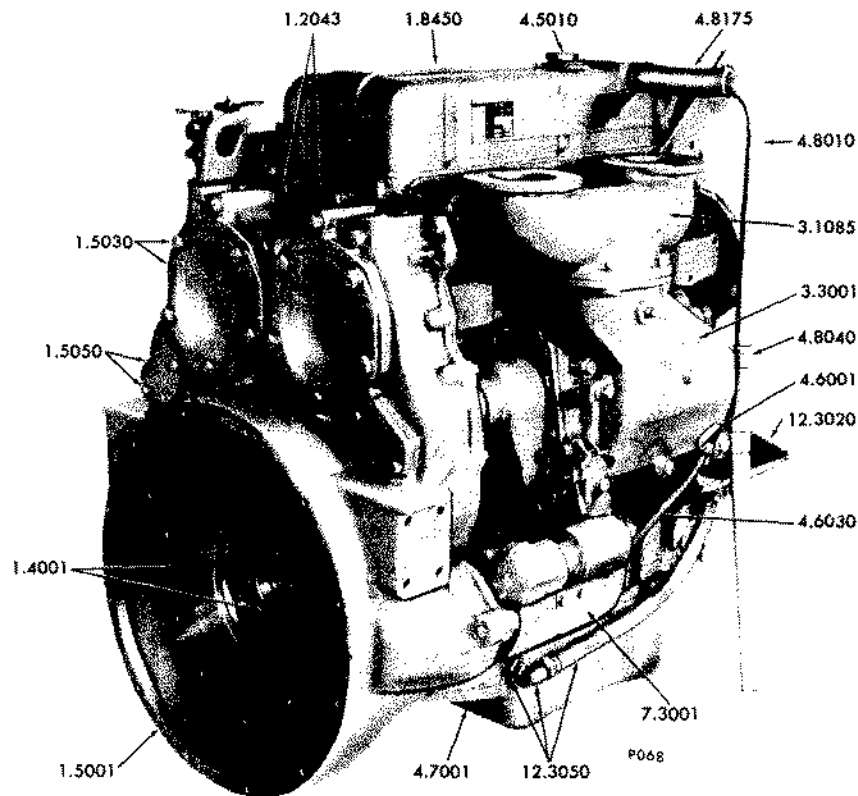
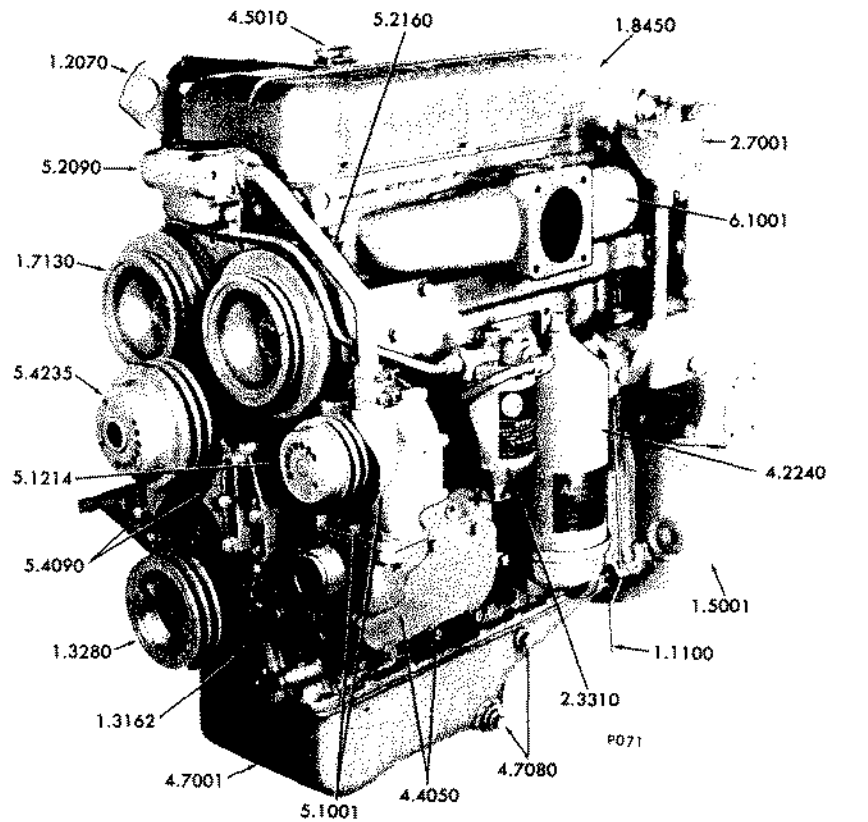


FIG. 10G TYPICAL 4 CYLINDER FAN TO FLYWHEEL INDUSTRIAL UNIT

Fig. 10G of 1.0000

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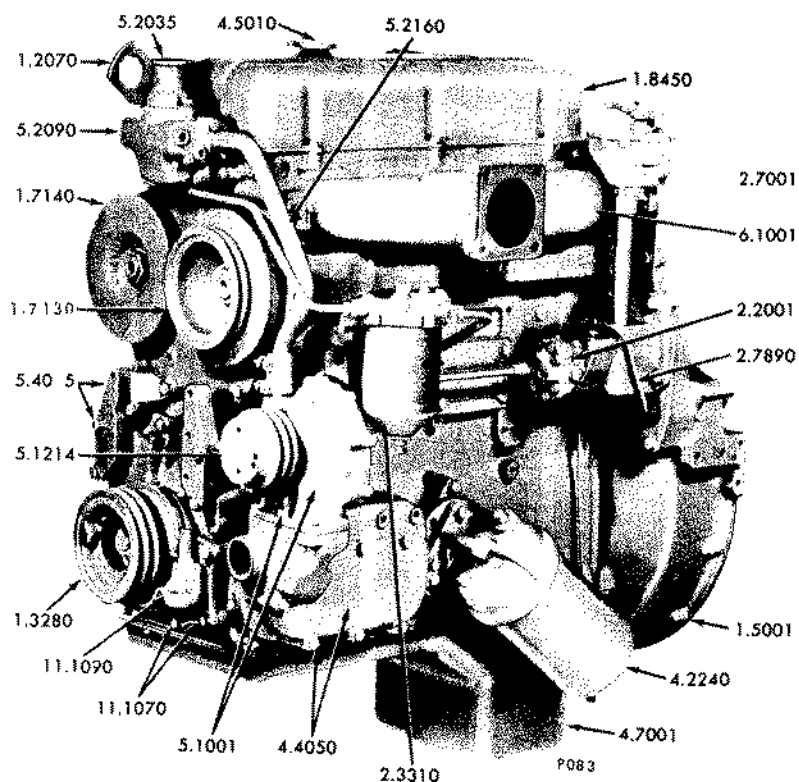


FIG. 10H - TYPICAL 4 CYLINDER FAN TO FLYWHEEL UNIT

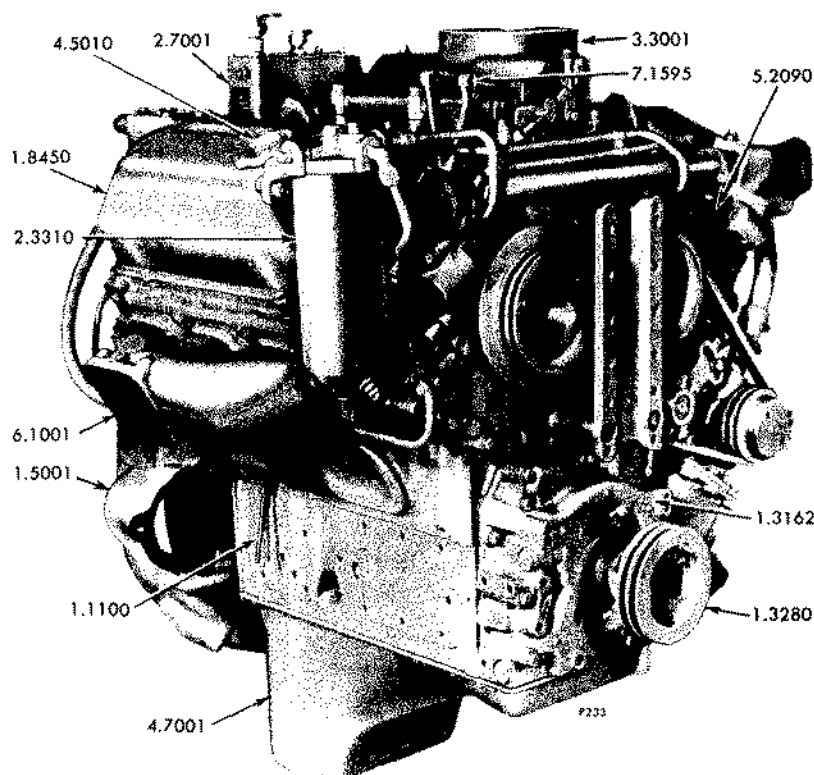
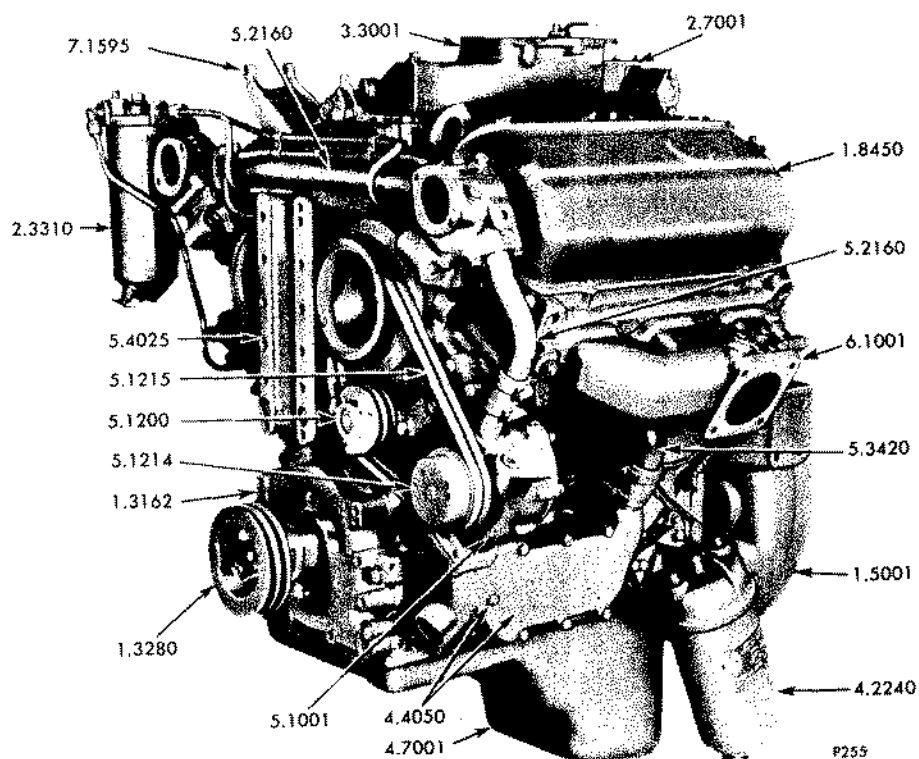


FIG. 10J TYPICAL 6 CYLINDER FAN TO FLYWHEEL INDUSTRIAL UNIT

Fig. 10J of 1.0000

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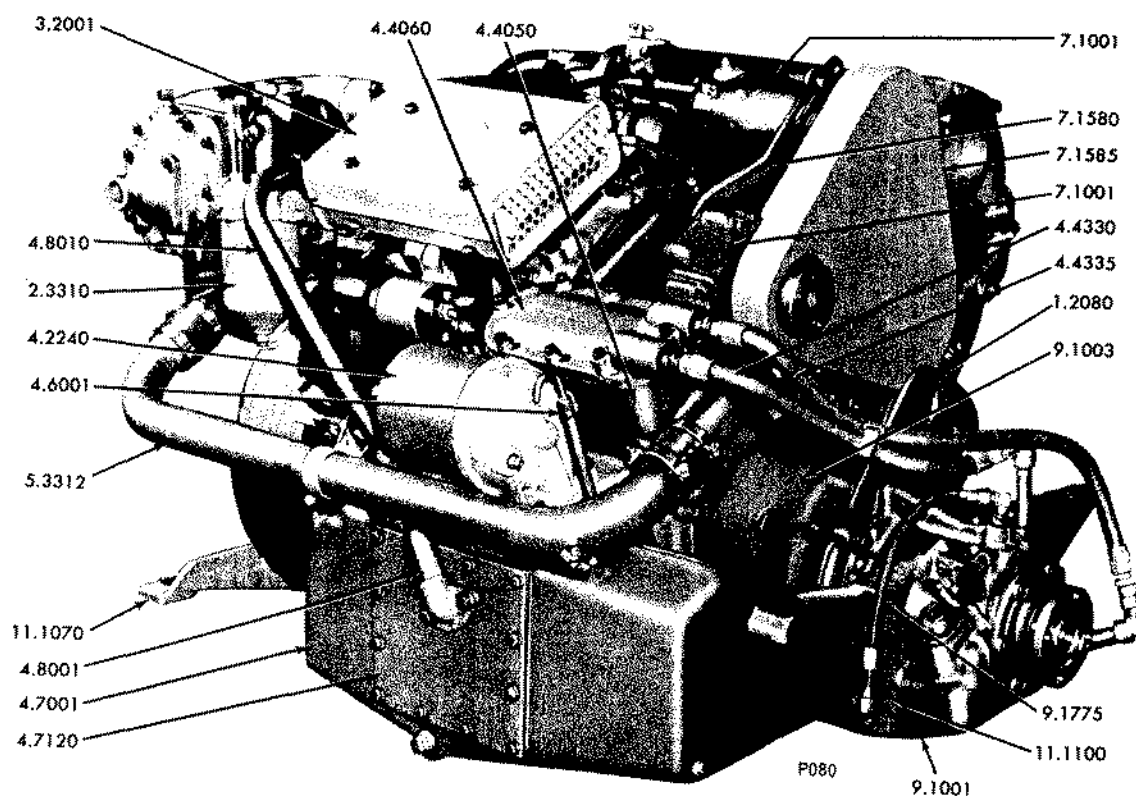
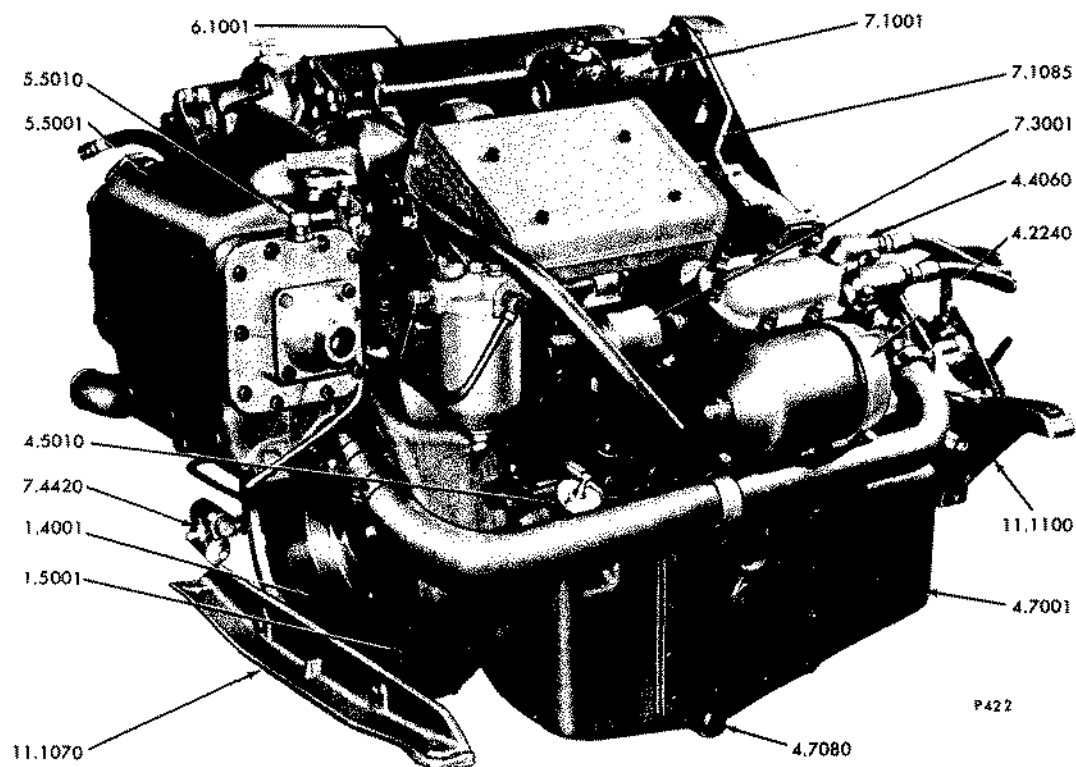


FIG. 10K TYPICAL INCLINED MARINE UNIT

Fig. 10K of 1.0000

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1.1000 CYLINDER BLOCK

PART
FIG . . . NUMBER NAME AND DESCRIPTION

1.1001 - BLOCK, CYLINDER

FOR COMPONENTS OF SERVICE CYLINDER
BLOCK ASSEMBLIES REFER TO ASSEMBLY
BREAKDOWN PAGES AS INDICATED
BELOW.

1A	5196489	BLOCK ASSY., 2-53 (PAGE A1)	1				1											
	5196490	BLOCK ASSY., 3-53 (PAGE A1)		1					1						1		1	
	5196491	BLOCK ASSY., 4-53 (PAGE A1)			1			1	1		1		1					
	5196821	BLOCK ASSY., 6V53 (PAGE A1)				1												
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)		6													1	
	8923847	PLUG, 1/4" PIPE (4.7001)				1		1									1	
	5103045	PIN, 5/16"X7 3/8" DOWEL				3												
	8923313	PLUG, 3/4" PIPE W/SEAL (12.9550)				1												
	5132634	DECAL (DRAIN)			AR			AR	AR		AR	AR						
	443762	EXTENSION TUBE (12.9540)		1														

1.1002 - GASKET KIT, ENGINE OVERHAUL

A GASKET KIT CONSISTS OF GASKETS
NECESSARY FOR ONE ENGINE OVERHAUL.
GASKET KITS DO NOT INCLUDE THE
ADDITIONAL GASKETS REQUIRED FOR
TURBOCHARGED ENGINES.

5199790	GASKET KIT, 2-53	AR																
5199791	GASKET KIT, 3-53		AR															
5199792	GASKET KIT, 4-53			AR				AR	AR		AR	AR		AR	AR	AR	AR	
5199793	GASKET KIT, 6V53				AR													
5199789	GASKET KIT, 2-53 (JOHN DEERE)					AR												

1.1020 - PLATE, CYLINDER BLOCK END-REAR

A PLATE ASSY. INCLUDES PLUG NUTS.

1A,7C	5121365	PLATE ASSY., 2,3-53 RA-RB-LA-LB ENG.	1	1						1							1	
1A,7C	5121366	PLATE ASSY., 2,3-53 RC-RD-LC-LD ENG.	1	1						1							1	
1A,7C	5121367	PLATE ASSY., 4-53 (RA-RB-LA-LB ENG.)			1			1										
1A,7C	5121368	PLATE ASSY., 4-53 (RC-RD-LC-LD ENG.)			1			1	1						1			
1B,7D	5126194	PLATE ASSY., 6V53				1												
1A,7C	5121233	PLATE ASSY., 2-53 (RC ENG.)					1											
1A,7C	5109795	PLATE ASSY., 4-53 (RA-RB-LA-LB ENG.)											1					
1A,1B	5131699	COVER (GOVERNOR DRIVE HOLE)													1	1		
1A,1B	5121459	PLUG, 3/8"-24 NUT	8	8	9	2	6	9	9	8	7	9	8	8				
1A,B	180120	BOLT, 3/8"-16X3/4" (12.9001)					13											
1A,B	9409079	BOLT, 3/8"-16X7/8" (12.9001)	13	13	13			13	13	13	13	13	13	13	13	13	13	
1A,B	179839	BOLT, 3/8"-16X1" (12.9001)				10								2	2			
1A,B	181360	BOLT, 3/8"-24X3/4" (12.9001)												3	3			
1A,B	186725	BOLT, 1/2"-13X1 1/2" (12.9001)			2													
1A,B	5188274	WASHER, 1/2" BEVELED (6.1020)			2													
1A,B	5152148	WASHER, 3/8" SEAL (COPPER) (2.4050)												3	3			
1A,B	103321	LOCKWASHER, 3/8" (12.9200)	13	13	13	10	13	13	13	13	13	13	15	15	13			

1.1030 - GASKET, CYLINDER BLOCK END
PLATE-FRONT

1A	5116354	GASKET, 2,3,4-53	1	1	1		1	1	1	1	1	1	1	1				
1B	5133397	GASKET, 6V53				1												
	5116336	GASKET (GOVERNOR HOLE) (2.7010)												1	1			

1.1000 CYLINDER BLOCK

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	28	29	30	31	33	38	44	45	46	53	55	56
1.1040 - COVER, CYLINDER BLOCK HAND HOLE														
1C	5116372	COVER, 2-53 (ITEM 6)	1				1							
1C	5116373	COVER, 3-53 (ITEM 5)		1						1			1	
1A,1C	5116374	COVER, 4-53 (ITEM 4)			1				1		1	1		
1B,1C	8921313	COVER, 6V53 (ITEM 3)				4								
	5127874	% COVER, 4-53 (RA-RD-LA-LD ENG.)						1						
	5127875	% COVER, 4-53 (RB-RC-LB-LC ENG.)						1						
1C	5199509	COVER, 3-53 (RB-RC-LB-LC ENG.) (ITEM 5)												1
	5132573	# COVER, 3-53 (RA-RD-LA-LD ENG.)												1
	5107440	CLAMP				4								
	105451	GASKET, 3/8" COPPER (12.9360)				4								
	8924380	@ PLUG, 1/8" PIPE W/SEAL (12.9550)					1							
	114672	@ SCREW, 3/8"-16X1" FLAT HEAD SLOTTED (12.9030)	2				2							
	180120	BOLT, 3/8"-16X3/4" (12.9001)		6	6			6	6		6	6		6
	179839	BOLT, 3/8"-16X1" (12.9001)								6			6	
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)				4								
	103341	WASHER, 3/8" (12.9190)				4								
	114618	@ LOCKWASHER, 3/8" (12.9200)					4							
	103321	@ LOCKWASHER, 3/8" (12.9200)		6	6			6	6	6	6	6	6	6
		# NOT SERVICED; USE 5199509 COVER PLUS (1) 5121182 PLUG.												
		@ THRU 2D-4009 ON TYPES 28 AND 33. USED ALSO WITH SERVICE BLOCK.												
		% NOT SERVICED; USE 5199508 COVER PLUS (1) 5121182 PLUG.												
1.1050 - GASKET, CYLINDER BLOCK HAND HOLE COVER														
1C	5116379	GASKET, 2-53 (ITEM 6)	1				1							
1C	5116380	GASKET, 3-53 (ITEM 5)		1						1			1	1
1A,1C	5116381	GASKET, 4-53 (ITEM 4)			1			1	1		1	1		
1B,1C	5107441	GASKET, 6V53 (ITEM 3)				4								
1.1060 - COVER, CYLINDER BLOCK WATER HOLE														
1A,B	5123918	COVER, 1/8" TAPPED HOLE	1			1	1							
1A,B	5164190	* COVER, 1/4" TAPPED HOLE	1	1	1		1	1			1	1	1	1
1A,B	5115097	COVER, 3/8" TAPPED HOLE	1	1	1						1	1	1	1
1A,B	5189143	* COVER, 1/2" TAPPED HOLE		1	1						1	1	1	1
1A,B	5134342	COVER, 1/2" NPT. MALE											1	
1A,B	5150023	COVER, PLAIN (3 10/32" L.)			1	1			1	1	1	1	1	
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)					1							
	114981	DRAINCOCK, 1/8" (12.9510)	1			1		1						
1B	8924140	DRAINCOCK, 1/4" (12.9510)						1						1
1A,B	186618	BOLT, 5/16"-18X5/8" (12.9001)	2	2			2	2	2	2	2	2	2	2
1A,B	179816	BOLT, 5/16"-18X3/4" (12.9001)			2	2								
1A,B	186625	BOLT, 5/16"-18X7/8" (12.9001)	2	2		2					2	2	2	
1A,B	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2	2	2	2	2	2	2	2	2
		* USE WITH AUTOMATIC SHUTDOWN.												
1.1070 - GASKET, CYLINDER BLOCK WATER HOLE COVER														
1A,B	5116357	GASKET	1	1	1	1	1	1	1	1	1	1	1	1

1.1000 CYLINDER BLOCK

PART			TYPES															
FIG	NUMBER	NAME AND DESCRIPTION	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	
			9	3	5	6	2	8	3	8	1	9	9	5	4	4	4	
1.1001 - BLOCK, CYLINDER																		
FOR COMPONENTS OF SERVICE CYLINDER BLOCK ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGES AS INDICATED BELOW.																		
1C	5197164	BLOCK ASSY., 6V53 (PAGE A1)	1															
1A,B	5198692	BLOCK ASSY., 3-53 (ALUM.) (PAGE A1)		1														
1C	5198148	BLOCK ASSY., 8V53 (PAGE B1)			1													
1B	5134842	% BLOCK ASSY., 4-53 MALL CAP (PAGE A1)				1												
1C	5198292	BLOCK ASSY., 6V53 (ALUM.) (PAGE A1)					1											
1A,B	5136343	# BLOCK ASSY., 3-53 MALL CAP (PAGE A1)						1										
1A,B	5135252	# BLOCK ASSY., 3-53 (PAGE A1)							1									
	5136802	* BLOCK ASSY., 6V53 (ALUM.) (PAGE B1)								1								
1A,B	5196491	BLOCK ASSY., 4-53 (PAGE A1)									1	1						
	5149296	BLOCK ASSY., 8V53 (PAGE B1)													1			
1B	5149390	BLOCK ASSY., 3-53 (PAGE B1)														1		
	5146331	ELBOW, OIL GALLERY			1													
	5146620	GASKET, OIL GALLERY			1													
	5146332	CAP, OIL GALLERY ELBOW			1													
1A	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)	4				7		6	1	1				4	6		
	8923847	PLUG, 1/4" PIPE (4.7001)	1				1		1	1					1			
	5150130	PLUG, 5/16" CUP											1					
	5150131	PLUG, 7/16" CUP																
	5115214	PLUG, 1/2" PIPE (12.9550)	3										1					
	5121316	PLUG, .6275"X.40" CUP			2		2		2									
	5119218	PLUG, 7/8" CUP (5.1030)	1						2									
	8923313	PLUG, 3/4" PIPE W/SEAL (12.9550)	1															
	5138184	PLUG, .984"/.980" CUP														2		
	5138183	PLUG, 1.580"/1.576" CUP														2		
	141346	PIN, 3/16"X1/2" DOWEL (12.9290)	4				4		4	4	4	4	4	4	4	4	4	
	141212	PIN, 5/16"X5/16" DOWEL (12.9290)					4								2	2		
	5103045	PIN, 5/16"X3/8" DOWEL	2				2								2	2		
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	4	4					4						2	2	4	
	114981	DRAINCOCK, 1/8" (12.9510)	2				2		1						2	2	2	
	139191	SCREW, 5/8"-11X1/2" HEX. SKT. SET (12.9076)														2		
	5135548	INSERT, .80" DIA.		4				8										
	5135663	INSERT, .455" DIA.		4				8										
	5135547	SLEEVE, .434" DIA.		4				8										
	5135662	SLEEVE, .299" DIA.		4				8										
		# NOT SERVICED, USE 5196490.																
		* OBSOLETE																
		% NOT SERVICED, USE 5196491.																
1.1002 - GASKET KIT, ENGINE OVERHAUL																		
A GASKET KIT CONSISTS OF GASKETS NECESSARY FOR ONE ENGINE OVERHAUL. GASKET KITS DO NOT INCLUDE THE ADDITIONAL GASKETS REQUIRED FOR TURBOCHARGED ENGINES.																		
	5199791	GASKET KIT, 3-53							AR								AR	
	5199792	GASKET KIT, 4-53								AR		AR	AR					
	5199793	* GASKET KIT, 6V53					AR											
	5199814	GASKET KIT, 6V53	AR															
	8927743	GASKET KIT (5063-5299)	AR															
	5199813	GASKET KIT, 3-53 (ALUM.)		AR														
	5199794	GASKET KIT, 8V53					AR											
	5198176	GASKET KIT, 8V53 MARINE SUPPLEMENTAL																

1.1000 CYLINDER BLOCK

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 9	6 3	6 5	6 9	7 2	8 2	8 3	8 6	9 1	9 9	1 0 5	1 4 4
1.1002 - GASKET KIT, ENGINE OVERHAUL (CONT'D)														
	5199816	GASKET KIT, 6V53 (ALUM.)					AR							
	5149150	GASKET KIT, 8V53											AR	
		* SIX (6) ADDITIONAL PART NO.												
		5121256 SEALS IN 1.6190 ARE ALSO												
		REQUIRED FOR TYPE 99.												
1.1020 - PLATE, CYLINDER BLOCK END-REAR														
A PLATE ASSY. INCLUDES PLUG NUTS.														
1A,7C	5121365	PLATE ASSY., 2,3-53 A AND B ENG.				1								1
1A,7C	5121366	PLATE ASSY., 2,3-53 C AND D ENG.							1					
1A,7C	5121367	PLATE ASSY., 4-53 A AND B ENG.								1	1			
1A,7C	5121368	PLATE ASSY., 4-53 C AND D ENG.				1								
1B,7D	5126194	PLATE ASSY., 6V53	1				1					1		
1A,7C	5137469	PLATE ASSY., 3-53 (ALUM.)		1										
1A,7C	5146886	PLATE ASSY., 8V53			1								1	
1A,B	5121459	PLUG, 3/8"-24 NUT	2	8	2	9	2		8	9	9	2	2	8
1A,B	9409079	BOLT, 3/8"-16X7/8" (12.9001)		1		13			13	13	13			13
1A,B	179839	BOLT, 3/8"-16X1" (12.9001)	12		4							12	4	
1A,B	9409028	BOLT, 3/8"-16X1" (12.9001)		12										
1A,B	186619	BOLT, 3/8"-16X1 1/8" (12.9001)					4							
1A,B	186725	BOLT, 1/2"-13X1 1/2" (12.9001)	2		2							2	2	
1A,B	179886	BOLT, 1/2"-13X1 5/8" (12.9001)					1							
1A,B	5188274	WASHER, 1/2" BEVELED (6.1020)	2		2							2	2	
1A,B	103341	WASHER, 3/8" (12.9190)					AR							
1A,B	103321	LOCKWASHER, 3/8" (12.9200)	AR		AR	AR			AR	AR	AR	AR	AR	AR
1.1030 - GASKET, CYLINDER BLOCK END PLATE-FRONT														
1A	5116354	GASKET, 2,3,4-53		1		1			1	1	1			1
1B	5133397	GASKET, 6V53	1		1		1			1		1		
	5147302	GASKET, 8V53 REAR			1								1	
	5132931	GASKET, 8V53 CENTER											1	
1.1040 - COVER, CYLINDER BLOCK HAND HOLE														
1A,1C	5116373	COVER, 3-53 (ITEM 5)							1					1
1A,1C	5116374	COVER, 4-53 (ITEM 4)				1					1			
1B,1C	8921313	COVER, 6V53 (ITEM 3)	4											
	5127875	% COVER, 4-53 (RB-RC-LB-LC ENG.)								1				
1C	5132458	COVER, 6, 8V53 (ALUM.) (ITEM 2)			6		4					4	6	
1B	5107440	CLAMP	4											
	105451	GASKET, 3/8" COPPER (12.9360)	4											
	179819	BOLT, 5/16"-18X1 1/8" (12.9001)			12		8					8	12	
	180120	BOLT, 3/8"-16X3/4" (12.9001)				6			6	6	6			6
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)	4											
	103341	WASHER, 3/8" (12.9190)	4											
	103320	LOCKWASHER, 5/16" (12.9200)			12		8					8	12	
	103321	LOCKWASHER, 3/8" (12.9200)				6			6	6	6			6
		% NOT SERVICED; USE 5199508 COVER AND 1-5121182 PLUG.												

1.1000 CYLINDER BLOCK

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	5 9	6 3	6 5	6 9	7 2	8 2	8 3	8 6	9 1	9 9	1 0 5	1 4 4
1.1050 - GASKET, CYLINDER BLOCK HAND HOLE COVER														
1C	5116380	GASKET, 3-53 (ITEM 5)							1					1
1A	5116381	GASKET, 4-53 (ITEM 4)				1				1	1			
1B, 1C	5107441	GASKET, 6V53 (ITEM 3)	4											
1C	5106688	GASKET, 6, 8V53 (ITEM 2)			6		4					4	6	
1.1060 - COVER, CYLINDER BLOCK WATER HOLE														
1A, B	5123918	COVER, 1/8" TAPPED HOLE	1											
1A, B	5164190	* COVER, 1/4" TAPPED HOLE								1				
1A, B	5150023	COVER, PLAIN (3 10/32" L.)				1			1	1				1
1A, B	5132473	COVER, PLAIN (4.30" L.)										1	1	
1B	114981	DRAINCOCK, 1/8" (12.9510)	1											
1B	8924140	DRAINCOCK, 1/4" (12.9510)								1				
1A, B	186618	BOLT, 5/16"-18X5/8" (12.9001)				2	2			2	2		2	2
1A, B	179816	BOLT, 5/16"-18X3/4" (12.9001)	2						2				2	2
1A, B	186629	BOLT, 5/16"-18X1" (12.9001)										2		
1A, B	103320	LOCKWASHER, 5/16" (12.9200)	2			2			2	2	2	2	2	2
* USE WITH AUTOMATIC SHUTDOWN.														
1.1065 - COVER, CYLINDER BLOCK OIL HOLE														
	5132470	COVER (PLAIN)												1
	179816	BOLT, 5/16"-18X3/4" (12.9001)												2
	103320	LOCKWASHER, 5/16" (12.9200)												2
1.1066 - GASKET, CYLINDER BLOCK OIL HOLE COVER														
	5132471	GASKET												1
1.1070 - GASKET, CYLINDER BLOCK WATER HOLE COVER														
1A, B	5116357	GASKET	1			1			1	1	1			1
1A, B	5132474	GASKET										1	1	

1.1000 CYLINDER BLOCK

PART
FIG ... NUMBER ... NAME AND DESCRIPTION

TYPES

		1 4 5	1 4 6	1 4 7	1 6 3	1 6 6	1 6 8	1 6 9	1 8 9	2 0 3	2 1 4	2 3 0	2 3 6		
1.1001 - BLOCK, CYLINDER															
FOR COMPONENTS OF SERVICE CYLINDER BLOCK ASSEMBLIES REFER TO ASSEMBLY BREAK DOWN PAGES AS INDICATED BELOW.															
5149389	BLOCK ASSY, 4-53 (PAGE B1)	1		1	1										
5149428	BLOCK ASSY., 6V-53 (PAGE B1) (TURBO OR NON-TURBO)		1												
5149781	BLOCK ASSY., 6V-53 (PAGE B1) (TURBO)							1		1					
5149390	BLOCK ASSY., 3-53 (PAGE B1)					1			1		1				
5196490	+ BLOCK ASSY., 3-53 (PAGE A1)						1								
8926997	BLOCK ASSY., 6V-53 (TURBO) (PAGE A1)											1			
8927003	BLOCK ASSY., 6V-53 (TURBO) (PAGE A1)												1		
1A 8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)	7		7	7	7	4		6		6	4	4		
8923847	PLUG, 1/4" PIPE (4.7001)	1		1	1				1		1				
8923313	PLUG, 3/4" PIPE W/SEAL (12.9550)		2									1	1		
5121316	PLUG, .6275"X.40" CUP			2	2				2						
5101601	PLUG, .7525"X.40" CUP	2		2	2	2			2						
5150130	PLUG, 5/16" CUP		1					1		1		1	1		
5150131	PLUG, 7/16" CUP	2		2	2	2	2		2		2				
5103045	PIN, 5/16"X3/8" DOWEL		3									5	5		
141346	PIN, 3/16"X1/2" DOWEL (12.9290)	4	4	4	4	4			4		4				
5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	4		4	4	4			4		4				
8926979	DRAINCOCK, 1/8" (12.9510)	2		2	2	2		1			1				
5135548	INSERT, .80" DIA.							4							
5135663	INSERT, .455" DIA.							4							
5135547	SLEEVE, .434" DIA.							4							
5135662	SLEEVE, .299" DIA.							4							
+ NOT SERVICED. USE 5149390.															
1.1002 - GASKET KIT, ENGINE OVERHAUL															
A GASKET KIT CONSISTS OF GASKETS NECESSARY FOR ONE ENGINE OVERHAUL. GASKET KITS DO NOT INCLUDE THE ADDITIONAL GASKETS REQUIRED FOR TURBOCHARGED ENGINES.															
5199792	GASKET KIT, 4-53	AR		AR	AR										
5199793	GASKET KIT, 6V53		AR												
5199791	GASKET KIT, 3-53					AR			AR		AR				
5199813	GASKET KIT, 3-53 (ALUM.)						AR								
5199814	GASKET KIT, 6V53 (TURBO)							AR		AR					
8928522	GASKET KIT, 6V53 (TURBO)											AR	AR		
1.1020 - PLATE, CYLINDER BLOCK END-REAR															
A PLATE ASSY. INCLUDES PLUG NUTS.															
1A,7C 5121367	PLATE ASSY. 4-53 A AND B ENG.	1													
1B,7D 5126194	PLATE ASSY. 6V53		1					1		1		1	1		
1A,7C 5121368	PLATE ASSY. 4-53 C AND D ENG.			1	1										
1A,7C 5121366	PLATE ASSY. 3-53					1			1						
1A,7C 5137469	* PLATE ASSY. 3-53 (ALUM.)						1								
1A,7C 5121365	PLATE ASSY. 3-53														
1A,1B 5121459	PLUG, 3/8"-24 NUT	9	2	9	13		8	2	8		8	2	2		
1A,B 454813	BOLT, 1/4"-20X7/8" (12.9001)	13		13	13										
1A,B 8927580	BOLT, 3/8"-16X1.015" (12.9001)					13	1		13		13				
1A,B 179839	BOLT, 3/8"-16X1" (12.9001)		12					10		10		10	10		
1A,B 8927581	BOLT, 3/8"-16X1" (12.9001)						12								
1A,B 186725	BOLT, 1/2"-13X1 1/2" (12.9001)		2					2		2		2	2		
1A,B 5188274	WASHER, 1/2" BEVELED (6.1020)		2					2		2		2	2		

1.1000 CYLINDER BLOCK

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 4 5	1 4 6	1 4 7	1 6 3	1 6 6	1 6 8	1 6 9	1 8 9	2 0 3	2 1 4	2 3 0	2 3 6
1.1020 - PLATE, CYLINDER BLOCK END-REAR (CONT'D)														
1A,B	103321	LOCKWASHER, 3/8" (12.9200) * NOT SERVICED. USE 5121365.	13	12	13	13	13		10	13	10	13	10	10
1.1030 - GASKET, CYLINDER BLOCK END PLATE-FRONT														
1A	5116354	GASKET, 2,3,4-53	1		1	1	1	1	1	1		1	1	1
1B	5133397	GASKET, 6V-53		1					1		1		1	1
1.1040 - COVER, CYLINDER BLOCK HAND HOLE														
1A,1C	5116374	COVER, 4-53 (ITEM 4)	1			1								
1C	5121027	COVER, 4-53 ALUM. (ITEM 1)			1									
1C	5116373	COVER, 3-53 (ITEM 5)					1					1		
	8923455	COVER, 3-53T (ITEM 5)								1				
1C	8921313	COVER, 6V-53T (ITEM 3)		4					4		4		3	4
	8921314	COVER, 6V-53T											1	
	5107028	STIFFENER, 6.54" L. (UPPER)								1				
	5107029	STIFFENER, 6.54" L. (LOWER)								1				
	5130590	@ CLAMP		4					4					
	5107440	CLAMP									4		4	4
	105451	GASKET, 3/8" COPPER (12.9360)		4					4		4		4	4
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)			1								1	
	8923355	SCREW, 3/8"-16X7/8" (12.9027)								2				
	180120	BOLT, 3/8"-16X3/4" (12.9001)	6			6	6					6		
	179839	BOLT, 3/8"-16X1" (12.9001)			6					4				
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)		4					4		4		4	4
	103341	WASHER, 3/8" (12.9190)		4	6				4		4		4	4
	103321	LOCKWASHER, 3/8" (12.9200) @ NOT SERVICED, USE 5130589 AND SD-245.	6		6	6	6		4	4		6		
1.1050 - GASKET, CYLINDER BLOCK HAND HOLE COVER														
1A,1C	5116381	GASKET, 4-53 (ITEM 4)	1		1	1								
1B,1C	5107441	GASKET, 6V-53 (ITEM 3)		4					4		4		4	4
1A,1C	5116380	GASKET, 3-53 (ITEM 5)					1							
1A	5106629	GASKET, 3-53T (ITEM 5)								1				
1.1060 - COVER, CYLINDER BLOCK WATER HOLE														
1A,B	5150023	COVER, PLAIN (3 10/32" L.)	1		1	1	1	1		1		1		
1A,B	5123918	COVER, 1/8" TAPPED HOLE		1					1		1		1	1
1B	8926979	DRAINCOCK, 1/8" (12.9510)		1					1		1		1	2
1A,B	179816	BOLT, 5/16"-18 X3/4" (12.9001)	2	2	2	2	2	2	2	2	2	2	2	2
1A,B	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2	2	2	2	2	2	2	2	2
1.1070 - GASKET, CYLINDER BLOCK WATER HOLE COVER														
1A,B	5116357	GASKET	1	1	1	1	1	1	1	1	1	1	1	1

1.1000 CYLINDER BLOCK

PART		NAME AND DESCRIPTION	TYPES																	
FIG	NUMBER		2 3 7	2 4 0	2 6 9	3 0 3														
		1.1001 - BLOCK, CYLINDER																		
		FOR COMPONENTS OF SERVICE CYLINDER BLOCK ASSEMBLIES REFER TO ASSEMBLY BREAK DOWN PAGES AS INDICATED BELOW.																		
	8926997	BLOCK ASSY., 6V-53 (PAGE A1) (TURBO)	1		1	1														
	5149428	BLOCK ASSY., 6V-53 (PAGE B1) (TURBO OR NON-TURBO)		1																
	5103045	PIN, 5/16"X3/8" DOWEL	3	3	3	3														
	8923313	PLUG, 3/4" PIPE W/SEAL (12.9550)	1	1	1	1														
		1.1002 - GASKET KIT, ENGINE OVERHAUL																		
		A GASKET KIT CONSISTS OF GASKETS NECESSARY FOR ONE ENGINE OVERHAUL. GASKET KITS DO NOT INCLUDE THE ADDITIONAL GASKETS REQUIRED FOR TURBOCHARGED ENGINES.																		
	NPN	GASKET KIT, 6V53 (TURBO)		AR																
	8927743	GASKET KIT, 6V53 (MILITARY)	AR		AR	AR														
		1.1020 - PLATE, CYLINDER BLOCK END-REAR																		
		A PLATE ASSY. INCLUDES PLUG NUTS.																		
1B,7D	5126194	PLATE ASSY., 6V53	1	1	1	1														
1A,1B	5121459	PLUG, 3/8"-24 NUT	2	2	2	2														
1A,B	179839	BOLT, 3/8"-16X1" (12.9001)	10	10																
1A,B	8927580	BOLT, 3/8"-16X1.015" (12.9001)			10	10														
1A,B	186725	BOLT, 1/2"-13X1 1/2" (12.9001)	2	2	2	2														
1A,B	5188274	WASHER, 1/2" BEVELED (6.1020)	2	2	2	2														
1A,B	103321	LOCKWASHER, 3/8" (12.9200)	10	10	10	10														
		1.1030 - GASKET, CYLINDER BLOCK END PLATE-FRONT																		
1B	5133397	GASKET, 6V-53	1	1	1	1														
		1.1040 - COVER, CYLINDER BLOCK HAND HOLE																		
1C	8921313	COVER, 6V-53T (ITEM 3)	4	3	4	3														
1B	8921314	COVER, 6V-53T		1																
1B	23501681	COVER, 6V-53T				1														
	23501835	TRANSDUCER																		
	5107440	CLAMP	4	4																
	5130589	CLAMP			4															
	105451	GASKET, 3/8" COPPER (12.9360)	4	4	4	4														
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)		1																
	181365	BOLT, 3/8"-24X1 1/8" (12.9001)	4	4	4	4														
	103341	WASHER, 3/8" (12.9190)	4	4	4	4														
		1.1050 - GASKET, CYLINDER BLOCK HAND HOLE COVER																		
1B,C	5107441	GASKET, 6V-53 (ITEM 3)	4	4	4	4														

1.1000 CYLINDER BLOCK

			TYPES									
FIG	PART NUMBER	NAME AND DESCRIPTION	2 3 7	2 4 0	2 6 9	3 0 3						
1.1060 - COVER, CYLINDER BLOCK WATER HOLE												
1A,B	5123918	COVER, 1/8" TAPPED HOLE	1	1	1	1						
1B	114981	DRAINCOCK, 1/8" (12.9510)	1	1	1	1						
1A,B	179816	BOLT, 5/16"-18X3/4" (12.9001)	2	2	2	2						
1A,B	103320	LOCKWASHER, 5/16" (12.9200)	2	2	2	2						
1.1070 - GASKET, CYLINDER BLOCK WATER HOLE COVER												
1A,B	5116357	GASKET	1	1	1	1						

1.1000 CYLINDER BLOCK

PART		COLUMN													
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		1.1001 - BLOCK, CYLINDER													
	5196489	* BLOCK ASSY., 2-53	1												
	5196490	# * BLOCK ASSY., 3-53		1											
	5198692	* BLOCK ASSY., 3-53 (ALUM.)			1										
	5136343	# * BLOCK ASSY., 3-53 (MALLEABLE CAP)				1									
	5135252	# * BLOCK ASSY., 3-53 (TURBO)					1								
	5196491	# * BLOCK ASSY., 4-53						1							
	5134842	# * BLOCK ASSY., 4-53 (MALLEABLE CAP)							1						
	5196821	# @ BLOCK ASSY., 6V53								1					
	5197164	# @ BLOCK ASSY., 6V53									1				
	5198292	+ @ BLOCK ASSY., 6V53 (ALUM.)										1			
	8926997	@ BLOCK ASSY., 6V-53 (TURBO)											1		
	8927003	@ BLOCK ASSY., 6V-53 (TURBO)												1	
3A	5116142	CAP, MAIN BEARING 2,3,4-53 (UNFINISHED) (1.3110)	3	4		4	4	5	5						
3A	5133620	CAP, MAIN BEARING 3-53 (UNFINISHED) (1.3110)			4										
3A	5132479	CAP (INTERMEDIATE) 6V53 (UNFINISHED) (1.3110)								4	4		4	4	
3A	5137937	CAP, MAIN BEARING 6V53 (UNFINISHED) (1.3110)										4			
	5196965	+ SPACER, MAIN BEARING CAP BOLT (SHIPPING)			8					8	8		8	8	
	5136277	SPACER, MAIN BEARING SUPPORT (1.3112)										8			
7A	5198431	BEARING SET, CAMSHAFT 2-53 (1.7010)	1												
7A	5198209	BEARING SET, CAMSHAFT 3-53 (1.7010)		1	1	1	1								
7A	5198984	BEARING SET, CAMSHAFT 4-53 (1.7010)						1	1						
7B	5197944	BEARING SET, CAMSHAFT 6V53 (1.7010)									1	1	1	1	1
	5119022	% COVER, AIR BOX	1												
	5128482	+ COVER, AIR BOX (1/4" TAPPED HOLE)	1												
	141212	PIN, 5/16"X5/16" DOWEL (12.9290)								3		2			
	5103045	PIN, 5/16"X3/8" DOWEL								2	2	2			
	141214	PIN, 5/16"X7/16" DOWEL (12.9290)										1			
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)										2			
	8928531	BUSHING, RED 3/4"-1/2"											1		
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)								4		8			
	5150130	PLUG, 5/16" CUP								1	1	1			
	5115214	PLUG, 1/2" PIPE (12.9550)								4	1	1			
	5119218	PLUG, 7/8" CUP (5.1030)									1				
	5109157	PLUG, 1 1/4" CUP (5.5001)								2	2	8	2	2	
	5117186	PLUG, 2" CUP (1.2001)										2			
	5138184	PLUG, .984"/.980" CUP										2			
	5138183	PLUG, 1.580"/1.576" CUP										2			
3A	5116199	BOLT, MAIN BEARING CAP (1.3140)	6	8		8	8		10						
3A	5141701	BOLT, MAIN BEARING CAP (1.3140)			8					8	8		8	8	
3A	5135523	BOLT, 1/2"-12X7.94" (1.3140)										16			
3A	8921876	WASHER, 14.8 MM (12.9190)			8					8	8		8	8	
3A	5132715	WASHER, .53" (1.3140)										16			
		THE FOLLOWING ITEMS ARE SHIPPED LOOSE WITH THE CYLINDER BLOCK.													
	5146437	ELBOW, AIR BOX DRAIN TEE	1	1	1			1							
	8925004	TEE, 1/4" INV. FL. (7.4586)	1	1	1			1							
	141346	PIN, 3/16"X1/2" DOWEL (12.9290)	4	4	4			4		4	4	4	4	4	
	141212	PIN, 5/16"X5/16" DOWEL (12.9290)								4	3		3	3	
	5103045	PIN, 5/16"X3/8" DOWEL									2		2	2	
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)	4	4				4		4	4		4	4	
	8926979	DRAINCOCK, 1/8" (12.9510)		1				2		3	3	2	3	2	
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)	4		4			7		4	4		4	4	
	5121182	PLUG, 1/4" PIPE (2.4015)	1	1	1			1		1					

5 3 M P C E N G I N E S

1.1000 CYLINDER BLOCK

[illegible]

**1.1001 - BLOCK, CYLINDER
(CONT'D)**

8923847	PLUG, 1/4" PIPE (4.7001)
5150130	PLUG, 5/16" CUP
5150131	PLUG, 7/16" CUP (OIL HOLES)
5115214	PLUG, 1/2" PIPE (12.9550)
5121316	PLUG, .6275"X.40" CUP
5142549	PLUG, 3/4"-14 PIPE (12.9550)
5101601	PLUG, .7525"X.40 CUP
5119218	PLUG, 7/8" CUP (5.1030)
186624	BOLT, 5/16"-18X1 1/4" (12.9001)
8927581	BOLT, 3/8"-16X1" AA LOCK (12.9001)
9414523	BOLT, 7/16"-14X1" AA LOCK (12.9001)
5133981	WASHER, 19/32"
5108435	WASHER, 3/8" (12.4010)
5125608	WASHER, 7/16" (1.3112)

% THRU 2D-4009 ON TYPE 28 AND 33.

† OBSOLETE

* PLUGGING CHART 18SP86, INLINE 53.

NOT SERVICED, SHOWN FOR
REFERENCE ONLY.

@ PLUGGING CHART 18SP87, V53.

[illegible]

1.1000 CYLINDER BLOCK

PART		COLUMN														
FIG	NUMBER	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		1.1001 - BLOCK, CYLINDER														
	5136802	+ * BLOCK ASSY., 6V53 ALUMINUM	1													
	5198148	* BLOCK ASSY., 8V53		1												
	5149296	* BLOCK ASSY., 8V53			1											
	5149389	* BLOCK ASSY., 4-53				1										
	5149390	* BLOCK ASSY., 3-53					1									
	5149428	* BLOCK ASSY., 6V53						1								
	5106542	+ * BLOCK ASSY., 6V53							1							
	5149781	* BLOCK ASSY., 6V53								1						
3A	5137937	CAP. MAIN BEARING 6V53 (UNFINISHED) (1.3110)	4													
3A	5132479	CAP. MAIN BEARING 6V, 8V53 INTERMEDIATE (UNFINISHED) (1.3110)		5				4	4	4						
3A	5135258	CAP. MAIN BEARING 8V53 (MALLEABLE IRON) (1.3110)			5											
3A	5116142	CAP. MAIN BEARING, INLINE 53 (1.3110) (UNFINISHED)				5	4									
7B	5197944	BEARING SET, CAMSHAFT 6V53 (1.7010)	1					1	1	1						
7B	5197930	BEARING SET, CAMSHAFT 8V53 (1.7010)		1	1											
7B	5198984	BEARING SET, CAMSHAFT 4-53 (1.7010)				1										
7A	5198209	BEARING SET, CAMSHAFT 3-53 (1.7010)					1									
	452672	INSERT, 5/16"-18X5/8" HELICOIL (12.9118)	28													
	452696	INSERT, 3/8"-16X3/4" HELICOIL (12.9118)	1													
	5179611	+ INSERT, HELICOIL (12.9118)	27													
	141346	PIN, 3/16"X1/2" DOWEL (12.9290)		4												
	5103045	PIN, 5/16"X3/8" DOWEL (PLATED)		6												
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)		4		7	6									
	5150130	PLUG, 5/16" CUP		2												
	5150131	PLUG, 7/16" CUP				2	2									
	5109157	PLUG, 1 1/4" CUP (5.5001)	8	10	6			2	2	2						
	9427118	PLUG, 1 3/4" CUP (12.9320)			2											
	5117186	PLUG, 2" CUP (1.2001)	2	3	5											
	139191	SCREW, 5/8"-11X1/2" SKT. HD. SET (12.9076)		2												
3A	5135523	BOLT, 1/2"-12 X 7.94" (1.3140)	8													
3A	5141701	BOLT, MAIN BEARING CAP (1.3140)		10	10			8	8	8						
3A	5116199	BOLT, MAIN BRG. CAP (1.3140)				10	8									
3A	5132715	WASHER, .53" (1.3140)	8													
3A	5133981	WASHER, 19/32"		10	10											
3A	8921876	WASHER, 14.8 MM (12.9190)						8	8	8						
		THE FOLLOWING ITEMS ARE SHIPPED LOOSE WITH THE CYLINDER BLOCK.														
	5146437	ELBOW, AIR BOX DRAIN				1	1									
	8925004	TEE, AIR BOX DRAIN (7.4586)				1	1									
	5103045	PIN, 5/16"X3/8" DOWEL (PLATED)		2				2	2	2						
	141212	PIN, 5/16"X5/16" DOWEL (12.9290)						3	3	3						
	5146900	PIN, 3/8"X1 1/8" DOWEL (12.9290)		2		4	4	4	4	4						
	141346	PIN, 3/16" X1/2" DOWEL (12.9290)				4	4	4	4	4						
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)		2				4	4	4						
	8923847	PLUG, 1/4" PIPE (4.7001)		1		1	1	1	1	1						
	5150130	PLUG, 5/16" CUP						1	1	1						
	5119218	PLUG, 7/8" CUP (5.1030)						1	1	1						
	5115214	PLUG, 1/2" PIPE (12.9550)						4	4	4						
	5138184	PLUG, .984"/.980" CUP		2												
	5101601	PLUG, .7525"X.40" CUP (4-53T)				2	2		2	2						
	5138183	PLUG, 1.578" CUP		2												
	114981	DRAINCOCK, 1/8" (12.9510)		2		2	1	2	2	2						

5 3 M P C E N G I N E S

, COLUMN

[illegible]

* SEE BLOCK PLUGGING CHART 18SP86
FOR INLINE 53, & 18SP87 FOR V53
ENGINES.

+ NOT SERVICED, SHOWN FOR
REFERENCE ONLY.

1.1000A AIR BOX DRAINS

PART		TYPES										
FIG	NUMBER	NAME AND DESCRIPTION	3	4	5	6	6	6	7	7		
			2	4	8	4	3	6	6	8	0	1
				4		9		2	6			7
1.1100 - TUBE, AIR BOX DRAIN												
10B	5126681	% TUBE, DEV. L. 2 7/16"		1								
10B	5132918	TUBE, DEV. L. 3.62"							1	2	2	
10J	5127651	@ TUBE, DEV. L. 4.20"			2							
10B	5134195	TUBE, DEV. L. 7.08"										2
10B	5132287	& TUBE, DEV. L. 9.74"					2					
10J	5134753	# TUBE, DEV. L. 10.18"					2					
10B	5132917	TUBE, DEV. L. 11.76"								2	1	
10B	5132286	TUBE, DEV. L. 12.00"				1	1		1			
10B	5134832	TUBE, DEV. L. 12.06"									1	
10B	5154970	TUBE, DEV. L. 14 3/8"	1									
	5129458	HOSE, 1/4" I.D. X 24" L.					1					
	5134905	HOSE, 1/4" I.D. X 1/2" L.										1
	5134906	HOSE, 1/4" I.D. X 20 1/4" L.										1
	9139801	CLAMP, 11/16" DIA. HOSE (12.9660)				1						
	5146838	CLAMP, 1/2" HOSE (12.9660)										2
	8925726	ELBOW, 1/8"-45 DEG. STREET (12.9590)										1
	224425	ELBOW, 3/16" INV. FL. TUBE 90 DEG. (12.9480)	1	1								
	8925719	ELBOW, 3/16" INV. FL. TUBE 45 DEG. (12.9480)			2							
	8925128	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)				1						
	8925032	# ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)					2	2	1	3	2	2
	8925023	& ELBOW, 1/4" INV. FL. TUBE 45 DEG. (12.9480)					2					
	2140049	VENT ASSY.										2
	8926232	ADAPTOR, 1/8" P.T. BR. (12.9570)									1	1
	442346	TEE, 3/8" INV. FL. TUBE, 1/8" P.T. (12.9490)								1	2	1
	178685	TEE, 1/4" INV. FL. TUBE, 1/8" P.T. (R. ANGLE) (12.9490)										1
	8924517	PLUG, 3/8"-18 SQ. SOC. PIPE (12.9550)					1					
	137396	NUT, 3/16" INV. FL. TUBE (12.9460)		1								
	137397	NUT, 1/4" INV. FL. TUBE (12.9500)				1	1		1			
		@ NOT SERVICED, CONVERT TO TYPE 62. & THRU 6D-6339.										
		# EFFECTIVE WITH 6D-6340 IN TYPE 62. % OBSOLETE.										
1.1145 - CLIP, AIR BOX DRAIN TUBE												
10B	140580	CLIP, 3/8" DIA. (12.9630)										4
10B	5176668	CLIP, 13/32"-3 HOLES (1.1100)	1		2					2	2	
1.1150 - TANK ASSY., AIR BOX AND FUEL PUMP DRAIN												
	5134825	TANK										1
1.1155 - HOSE, ROCKER COVER DRAIN												
	5134824	HOSE, 36" L.										1
	272853	CLAMP, HOSE (12.9660)										1
	5181415	CLIP, 1 1/8" DIA. (5.5390)										2

1.1000A AIR BOX DRAINS

PART			TYPES										
..FIG ..	NUMBER	NAME AND DESCRIPTION	3 2	4 8	4 9	5 3	6 2	6 3	6 6	6 8	7 0	7 1	7 7
	1.1180	- ELEMENT, DRAIN TANK											
	5135721	ELEMENT										1	
	1.1240	- BRACKET, DRAIN TANK MOUNTING											
	5134826	BRACKET										1	

1.1000A AIR BOX DRAINS

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	7 8	7 9	8 0	8 1	8 2	8 3	8 4	8 5	8 6	9 6	9 8	1 4
1.1100 - TUBE, AIR BOX DRAIN														
10B	5132918	TUBE, DEV. L. 3.62"		2			1	1	2	1	1	2		
10B	5134195	TUBE, DEV. L. 7.08"												2
	5137968	TUBE, DEV. L. 9.90"								1				
10B	5137692	TUBE, DEV. L. 10.18"			1									
10B	5137728	TUBE, DEV. L. 10.18"			1									
10B	5132917	TUBE, DEV. L. 11.76"		1			2	1	2	1	1	2		
10B	5136320	TUBE, DEV. L. 11.84" (WITH CLIP)	1											
10B	5132286	TUBE, DEV. L. 12.00"											1	
10B	5134832	TUBE, DEV. L. 12.06"								1				
10B	5136173	TUBE, DEV. L. 12.74"		1				1			1			
10B	5137969	% TUBE, DEV. L. 14.76"					1	1	1	1	1	1		
	442328	CONNECTOR, 1/4" FL. TUBE (12.9460)	1		2					1	1			
	8924170	CONNECTOR, 1/4" FL. TUBE (12.9460)												
	8925726	ELBOW, 1/8"-45 DEG. STREET (12.9590)				1								
	5146437	ELBOW, 1/8" PIPE (1.1001)											1	
	5197259	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (2.8180)	2	2	2	1	3	3	2	3		3		2
	8925024	& ELBOW, 1/4" INV. FL. TUBE 45 DEG. (12.9390)		2										
	2140049	VENT ASSY.	1	1	1									
	8926232	ADAPTOR, 1/8" PIPE (12.9570)		1			1	1	1	1	1	1		
	8925004	TEE, 1/8" INV. FL. TUBE (7.4586)											1	
	442346	TEE, 3/8" INV. FL. TUBE, 1/8" P.T. (12.9490)		2			1	3	2		1	2		
	8924380	PLUG, 1/8" PIPE W/SEAL (12.9550)	1				2	2		2	2	1		
	137397	NUT, 1/4" INV. FL. TUBE (12.9500) & THRU 6D-6339, % OBSOLETE.											1	
1.1145 - CLIP, AIR BOX DRAIN TUBE														
10B	5163442	CLIP, 1/4" DIA., 3/4" W. (2.9428)		1				1			1			
10B	3290442	CLIP, 1/4" DIA., 5/8" W. (7.4085)							1					
10B	5176668	CLIP, 13/32"-3 HOLES (1.1100)	1			3	2	3	3	2		1		
1.1150 - TANK ASSY., AIR BOX AND FUEL PUMP DRAIN														
	5134825	TANK												1
1.1155 - HOSE, ROCKER COVER DRAIN														
	5145678	HOSE, 54" L. (1.1000)												1
	272853	CLAMP, HOSE												1
	5181415	CLIP (5.5390)												2
1.1180 - ELEMENT, DRAIN TANK														
	5135721	ELEMENT												1

1.1000A AIR BOX DRAINS

TYPES

FIG	PART NUMBER	NAME AND DESCRIPTION	1 1 8	1 2 9	1 5 6	1 7 9	1 9 0													
		1.1100 - TUBE, AIR BOX DRAIN																		
	5137692	TUBE, DEV. L. 10.18"	1		1															
	5137728	TUBE, DEV. L. 10.18"	1		1															
	5103742	TUBE, 5/16"X18" L		2																
	8926595	TUBE, DEV. L. 4.81"				1														
	8926291	TUBE, DEV. L. 7.86"				1														
	8926290	TUBE, DEV. L. 9.68"				1														
	5134195	TUBE, DEV. L. 7.08"					2													
	8926596	TUBE, DEV. L. 12.36"				1														
	8996207	VALVE, AIR BOX CHECK				2														
	2140049	VENT ASSY.	2		2															
	5100136	ADAPTOR, 1/8" PIPE (12.9570)		1																
	5104370	ADAPTOR, AIR BOX DRAIN				2														
	442328	CONNECTOR, 1/4" FL. TUBE (12.9460)	2		2															
	9432266	CONNECTOR, 3/8" TUBE (12.9460)				1														
	8925048	CONNECTOR, 3/8" TUBE (12.9460)				1														
	8925726	ELBOW, 45 DEG. 1/8" (12.9590)				1														
	8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	2			1	2													
	8925128	ELBOW, 90 DEG. 1/4" (12.9480)				1														
	8924215	ELBOW, 90 DEG.- 5/16" INV. FL. TUBE (12.9480)		4																
	8924153	ELBOW, 90 DEG. INV. FL. TUBE (12.9480)		2																
	5196119	SPACER, 13/32" I.D.X7/8" O.D. (3.4001)				1														
	179816	BOLT, 5/16"-18X3/4" (12.9001)		1		1														
	186629	BOLT, 5/16"-18X1" (12.9001)				1														
	103320	LOCKWASHER, 5/16" (12.9200)		1		2														
	5151921	WASHER, 9/16"X13/16" COPPER (3.3270)				4														
		1.1145 - CLIP, AIR BOX DRAIN TUBE																		
	140579	CLIP, 5/16" DIA. (12.9630)		1																
	5176668	CLIP, 13/32"-3 HOLES	2		2															
	5124802	CLIP, 1/4" TUBE (3.3270)				1														
	5151883	CLIP, 3/8" TUBE (2.5070)				1														

1.1000A AIR BOX DRAINS

PART		TYPES			
..FIG ..	NUMBER	NAME AND DESCRIPTION			
		1 1 8	1 2 9	1 5 6	1 7 9
1.1100 - TUBE, AIR BOX DRAIN					
5137692	TUBE, DEV. L. 10.18"	1		1	
5137728	TUBE, DEV. L. 10.18"	1		1	
5103742	TUBE, 5/16"X18" L.		2		
8926595	TUBE, DEV. L. 4.81"				1
8926291	TUBE, DEV. L. 7.86"				1
8926290	TUBE, DEV. L. 9.68"				1
8926596	TUBE, DEV. L. 12.36"				1
8996207	VALVE, AIR BOX CHECK				2
2140049	VENT ASSY.	2		2	
5100136	ADAPTOR, 1/8" PIPE (12.9570)		1		
5104370	ADAPTOR, AIR BOX DRAIN				2
442328	CONNECTOR, 1/4" FL. TUBE (12.9460)	2		2	
9432266	CONNECTOR, 3/8" TUBE (12.9460)				1
8925048	CONNECTOR, 3/8" TUBE (12.9460)				1
444052	ELBOW, 45 DEG. 1/8" (12.9590)				1
8925032	ELBOW, 1/4" INV. FL. TUBE 90 DEG. (12.9480)	2			1
8925128	ELBOW, 90 DEG. 1/4" (12.9480)				1
8924215	ELBOW, 90 DEG.- 5/16" INV. FL. TUBE (12.9480)		4		
8924153	ELBOW, 90 DEG. INV. FL. TUBE (12.9480)		2		
5196119	SPACER, 13/32" I.D.X7/8" O.D. (3.4001)				1
179816	BOLT, 5/16"-18X3/4" (12.9001)		1		1
186629	BOLT, 5/16"-18X1" (12.9001)				1
103320	LOCKWASHER, 5/16" (12.9200)		1		2
5151921	WASHER, 9/16"X13/16" COPPER (3.3270)				4
1.1145 - CLIP, AIR BOX DRAIN TUBE					
140579	CLIP, 5/16" DIA. (12.9630)		1		
5176668	CLIP, 13/32"-3 HOLES	2		2	
5124802	CLIP, 1/4" TUBE (3.3270)				1
5151883	CLIP, 3/8" TUBE (2.5070)				1

1.2000 CYLINDER HEAD

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 1	2 2	2 3	2 4	2 5	2 6	3 0	5 7	6 1	6 2	6 8	7 5
1.2001 - HEAD ASSY., CYLINDER														
FOR COMPONENTS OF SERVICE CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.														
2A	5196033	HEAD ASSY. (2 VALVE) 2-53	1						1					
2A	5197949	+ HEAD ASSY. (2 VALVE) 3-53		1										
2A	5198203	HEAD ASSY. (4 VALVE) 3,6V53			1			2				1	2	
2A	5198204	+ HEAD ASSY. (2 VALVE) 4-53				1								
2A	5198202	HEAD ASSY. (4 VALVE) 4,8V53					1			1	2			
	5198438	HEAD ASSY. (4 VALVE) 3, 6V53												1
	5135548	GASKET (1.1001)											8	
	5135663	GASKET (1.1001)											8	
	5135547	SLEEVE (1.1001)											8	
	5135662	SLEEVE (1.1001)											8	
	5144425	ADAPTOR, FUSE PLUG	1	1	1	1			1				2	1
	5198655	PLUG, FUSE PLUG	1	1	1	1			1	1	1		1	1
2A	8924380	PLUG, 1/8" PIPE (12.9550)	1	2	2	2		4	1	2	4	2	4	2
2A	8923847	PLUG, 1/4" HEX. SKT. PIPE (2.4015)	7	7	6	2	6	12		7	10	6	9	1
2A	5125237	PLUG, 1/4" PIPE	2	2		4					2			5
2A	5154453	PLUG, 3/8"-16 SL. HDLS.	3	3	3	3	3	8	3	3	8	4	8	4
2A	5151449	PLUG, 13/16" CUP (1.1001)	3	3	3	3	3	6	3	3	6	3		3
	5139997	PLUG, 7/8" DIA. CUP (STAINLESS) + OBSOLETE.			3									
1.2002 - GASKET KIT, CYLINDER HEAD OVERHAUL														
CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.														
	5199809	GASKET KIT, 2-53	AR						AR					
	5199811	GASKET KIT, 3,6V53		AR	AR			AR						AR
	5199812	GASKET KIT, 4-53				AR	AR			AR				
	5199815	GASKET KIT, 8V53									AR			
	5199820	GASKET KIT, 3-53										AR		
	5199817	GASKET KIT, 6V53											AR	
1.2005 - NOZZLE, CYLINDER HEAD WATER														
	5119293	NOZZLE			4					6	12	4	8	4
1.2010 - GASKET, CYLINDER HEAD COMPRESSION														
1B,C	5121254	GASKET	2	3	3	4	4	6	2	4	8	3	6	3
1.2022 - GASKET, CYLINDER HEAD WATER AND OIL														
1A	5116291	RING, SEAL	1						1					
1A	5116290	RING, SEAL (END WATER HOLE)	4	4	4	4	4	8	4	4	8	4		4
1A,C	5121207	RING, SEAL (CENTER WATER HOLE)	2	4	4	6	6	8	2	6	12	4	4	4
1B,C	5116122	RING, SEAL (OIL HOLE)	1	2	2	2	2	4	1	2	4	2	4	3
1A,C	5116292	RING, SEAL		1	1			2				1	2	1
1A	5116293	RING, SEAL				1	1			1	2			

1.2000 CYLINDER HEAD

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 1	2 2	2 3	2 4	2 5	2 6	3 0	5 7	6 1	6 2	6 8	7 5
1.2030 - STUD, CYLINDER HEAD														
2A	5121263	BOLT, 5/8"-11X6 1/4" (12 PT. HD.)	6	8	8	10	10	16	6	10	20			8
	5130926	BOLT, 5/8"-11X6 1/2" (12 PT. HD.)										8	9	7
	5135954	BOLT, 5/8"-11X7.38" (12 PT. HD.)												
1.2040 - NUT, CYLINDER HEAD STUD														
	5150013	NUT, 5/8"-18										4		
1.2043 - COVER, CYLINDER HEAD WATER HOLE														
2A	5136610	COVER (PLAIN) (USE 3/8"-16X1" BOLT)	1	1	1		1	2			2		2	1
10C	5123168	COVER, 1/8" PIPE TAP, CENTERED	1	1	1	1	1	2				1		
10C	5127837	COVER, 1/8" PIPE TAP, OFF CENTER	1	1	1	1	1	2			2			
10C	5139226	COVER, 1/8" X 3/8" PIPE TAP (1.1060)			1									
	5129019	COVER, 1/4" PIPE TAP	1	1	1	1	1	2						
	5141136	COVER, 1/4" X 3/8" PIPE TAP						2						
10C	5123352	COVER, 3/8" PIPE TAP	1	1	1	1	1	2	1					
10C	5109707	COVER, 1/4" AND 1/2" PIPE TAPS	1	1	1	1	1	2		1				
10C	5135525	COVER, 1/2" PIPE TAP, BOSS			1									
	5109916	COVER, 1/2" PIPE TAP (.38" THICK)						2						
10C	8924380	PLUG, 1/8" PIPE SQ. HD. (12.9550)	1	1	1	1	1	2			2	1		
10C	8923847	PLUG, 1/4" PIPE (2.4015)	1	1	2	1	1	2		1				
10C	8924517	PLUG, 3/8" PIPE SQ. HD. (12.9550)	1	1	1	1	1	2						
10C	5115214	PLUG, 1/2" PIPE SQ. HD. (12.9550)	1	1	1	1	1	2						
	5146648	PLUG, 1/2" PIPE SOC. HD. (1.3162)												
2A	8927580	BOLT, 3/8"-16X7/8" (12.9001)	2	2		2	2		2	4	2	4		
	179839	BOLT, 3/8"-16X1" (12.9001)		2	2	2	2	4	2	2	4	2	4	2
2A	103321	LOCKWASHER, 3/8" (12.9200)	2	2	2	2	2	4	2	2	4	2	4	2
1.2044 - GASKET, CYLINDER HEAD WATER HOLE COVER														
2A	5116242	GASKET	1	1	1	1	1	2	1	1	2	1	2	1
1.2045 - TUBE, INJECTOR HOLE														
2A	8925981	KIT, INJECTOR HOLE TUBE (INCLUDES SEAL RING 5104701) TUBE IS STAMPED "606" FOR IDENTIFICATION	2	3	3	4	4	6	2	4	8		6	
1.2046 - RING, INJECTOR HOLE TUBE SEAL														
2A	5104701	RING (PART OF KIT IN 1.2045) (2.1300)	2	3	3	4	4	6	2	4	8		6	3

1.2000 CYLINDER HEAD

PART FIG NUMBER NAME AND DESCRIPTION			TYPES											
			8 4	8 6	9 2	9 3	1 2 2	1 2 3	1 3 1	1 3 2	1 4 7	1 4 8	1 5 0	1 5 1
1.2001 - HEAD ASSY., CYLINDER														
FOR COMPONENTS OF SERVICE CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.														
2A	5198203	HEAD ASSY. (4 VALVE) 3,6V53	2										1	
	5133047	* HEAD ASSY. (4 VALVE) 4, 8V53		1			1							
2A	5134202	+ HEAD ASSY. (2 VALVE) 3-53			1									
2A	5134203	+ HEAD ASSY. (2 VALVE) 4-53				1		1						
	5102500	% HEAD ASSY. (4-VALVE) 3, 6V53												2
	5149426	HEAD ASSY. (4 VALVE TURBO) 4-53							1			1		
	5149425	HEAD ASSY. (4 VALVE TURBO) 3-53; 6V-53								2	1			
	5135663	GASKET (1.1001)	8											
	5135648	GASKET (1.1001)	8											
	5135547	SLEEVE (1.1001)	8											
	5135662	SLEEVE (1.1001)	8											
	5144425	ADAPTOR, FUSE PLUG	2				1	1						
	5198655	PLUG, FUSE PLUG	1	1	1	1	1	1						
2A	8924380	PLUG, 1/8" PIPE (12.9550)	4	2	2	2	2	2	2	4	2	2	2	4
2A	5125237	PLUG, 1/4" PIPE	17	5	5	5	4	4				4	4	
	8923847	PLUG, 1/4" PIPE (2.4015)	4	2	1	2	2	2	6	11	6	2	2	12
2A	5154453	PLUG, 3/8"-16 SL. HDLS.	8	3	3	3	3	3	3	8	4	3	3	8
2A	5151449	PLUG, 13/16" CUP (1.1001)	6	3	3	3	5	2	3	6	3	3	3	6
	5139997	PLUG, 7/8" DIA. CUP (STAINLESS)					3	5						
	452664	INSERT, 5/16"-18X5/16" STAINLESS (12.9118)	4											
		+ OBSOLETE.												
		% NOT SERVICED; FOR SERVICE USE 5149425.												
		* NOT SERVICED. USE 5198202 (16) 8921502 INSERTS AND (4) 5131615 TUBES.												
1.2002 - GASKET KIT, CYLINDER HEAD OVERHAUL														
CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.														
	5199811	GASKET KIT, 3,6V53	AR		AR		AR		AR	AR	AR		AR	AR
	5199812	GASKET KIT, 4-53		AR		AR		AR	AR			AR		
1.2005 - NOZZLE, CYLINDER HEAD WATER														
	5119293	NOZZLE	8	6										
1.2010 - GASKET, CYLINDER HEAD COMPRESSION														
1B,C	5121254	GASKET	6	4	3	4	3	4	4	6	3	4	3	6
1.2022 - GASKET, CYLINDER HEAD WATER AND OIL														
1A	5116290	RING, SEAL (END WATER HOLE)		4	4	4	4	4	4	8	4	4	4	8
1A,C	5121207	RING, SEAL (CENTER WATER HOLE)		6	4	6	4	6	6	8	4	6	4	8
1B,C	5116122	RING, SEAL (OIL HOLE)	4	2	2	2	2	2	2	4	2	2	2	4
1A,C	5116292	RING, SEAL			1		1			2	1		1	2
1A	5116293	RING, SEAL	2			1		1	1			1		

1.2000 CYLINDER HEAD

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	8	8	9	1	1	1	1	1	1	1	1	1
			4	6	2	2	3	3	2	7	4	0	5	1
1.2030 - STUD, CYLINDER HEAD														
2A	5121263	BOLT, 5/8"-11X6 1/4" (12 PT. HD.)		10	8	10	8	10	10	16	8	10	8	16
	5130926	BOLT, 5/8"-11X6 1/2" (12 PT. HD.)	9											
	5135954	BOLT, 5/8"-11X7.38" (12 PT. HD.)	7											
	5137275	WASHER, .68" I.D.X1.00" O.D. X .12"	16											
1.2043 - COVER, CYLINDER HEAD WATER HOLE														
2A	5136610	COVER (PLAIN) (USE 3/8"-16X1" BOLT)		1	1	1	1	1	2					
10C	5139226	COVER, 1/8"X3/8" PIPE TAP (1.1060)										1		
10C	5123352	COVER, 3/8" PIPE TAP	2								1	1		
10C	5109916	COVER, 1/2" PIPE TAP												
10C	5127837	COVER, 1/8" PIPE TAP, OFF CENTER												2
10C	8924380	PLUG, 1/8" PIPE SQ. HD. (12.9550)											1	
10C	8924517	PLUG, 3/8" PIPE SQ. HD. (12.9550)	2							1	1	1	1	
	179839	BOLT, 3/8"-16X1" (12.9001)	4	2	2	2	2	2	2	4	2	2	2	4
2A	103321	LOCKWASHER, 3/8" (12.9200)	4	2	2	2	2	2	2	4	2	2	2	4
1.2044 - GASKET, CYLINDER HEAD WATER HOLE COVER														
2A	5116242	GASKET	2	1	1	1	1	1	1	2	1	1	1	2
1.2045 - TUBE, INJECTOR HOLE														
2A	8925981	KIT, INJECTOR HOLE TUBE (INCLUDES SEAL RING 5104701) TUBE IS STAMPED "606" FOR IDENTIFICATION	6	4	3	4	3	4	4	6	3	4	3	6
1.2046 - RING, INJECTOR HOLE TUBE SEAL														
2A	5104701	RING (PART OF KIT IN 1.2045) (2.1300)	6	4	3	4	3	4	4	6	3	4	3	6

1.2000 CYLINDER HEAD

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1	2	3										
			5	1	2										
			2	6	5										
				8											
		1.2001 - HEAD ASSY., CYLINDER													
		FOR COMPONENTS OF SERVICE CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.													
2A	5198203	HEAD ASSY. (4 VALVE) 3,6V53	2												
	5102500	% HEAD ASSY. (4-VALVE) 3, 6V53		2	1										
2A	8924380	PLUG, 1/8" PIPE (12.9550)	4	4	2										
	8923847	PLUG, 1/4" PIPE (2.4015)	12	12	6										
2A	5154453	PLUG, 3/8"-16 SL. HDLS.	8	8	4										
2A	5151449	PLUG, 13/16" CUP (1.1001)	6	6	3										
		% NOT SERVICED; FOR SERVICE USE 5149425.													
		1.2002 - GASKET KIT, CYLINDER HEAD OVERHAUL													
		CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.													
	5199811	GASKET KIT, 3,6V53	AR	AR	AR										
		1.2010 - GASKET, CYLINDER HEAD COMPRESSION													
1B,C	5121254	GASKET	6	6	3										
		1.2022 - GASKET, CYLINDER HEAD WATER AND OIL													
1A	5116290	RING, SEAL (END WATER HOLE)	8	8	4										
1A,C	5121207	RING, SEAL (CENTER WATER HOLE)	8	8	4										
1B,C	5116122	RING, SEAL (OIL HOLE)	4	4	2										
1A,C	5116292	RING, SEAL	2	2	1										
		1.2030 - STUD, CYLINDER HEAD													
2A	5121263	BOLT, 5/8"-11X6 1/4" (12 PT. HD.)	16	16	8										
		1.2043 - COVER, CYLINDER HEAD WATER HOLE													
2A	5136610	COVER (PLAIN) (USE 3/8"-16X1" BOLT)		1	1										
10C	5123352	COVER, 3/8" PIPE TAP	1												
10C	5109916	COVER, 1/2" PIPE TAP	1	1											
10C	8924380	PLUG, 1/8" PIPE SQ. HD. (12.9550)	1	1											
10C	8924517	PLUG, 3/8" PIPE SQ. HD. (12.9550)	1												
10C	5115214	PLUG, 1/2" PIPE SQ. HD. (12.9550)	1	1											
	8927581	BOLT, 3/8"-16X1" (12.9001)	4	4	2										
2A	103321	LOCKWASHER, 3/8" (12.9200)	4	4	2										
		1.2044 - GASKET, CYLINDER HEAD WATER HOLE COVER													
2A	5116242	GASKET	2	2	1										

1.2000 CYLINDER HEAD

			TYPES											
..FIG	PART NUMBER	NAME AND DESCRIPTION	1 5 2	1 6 8	2 1 5									
		1.2045 - TUBE, INJECTOR HOLE												
2A	8925981	KIT, INJECTOR HOLE TUBE (INCLUDES SEAL RING 5104701) TUBE IS STAMPED "606" FOR IDENTIFICATION	6	6	3									
		1.2046 - RING, INJECTOR HOLE TUBE SEAL												
2A	5104701	RING (PART OF KIT IN 1.2045) (2.1300)	6	6	3									

1.2000 CYLINDER HEAD

PART
..FIG .. NUMBER .. NAME AND DESCRIPTION ..

TYPES

1.2001 - HEAD ASSY., CYLINDER

FOR COMPONENTS OF SERVICE CYLINDER
HEAD ASSEMBLIES REFER TO ASSEMBLY
BREAKDOWN PAGE A1.

		8 4	8 6	9 2	9 3	1 2 2	1 2 3	1 3 1	1 3 2	1 4 7	1 4 8	1 5 0	1 5 1	1 5 2	2 1 5
2A	5198203	2										1		2	
	5133047		1												
2A	5134202			1		1									
2A	5134203				1		1								
	5102500												2		1
	5149426							1			1				
	5149425								2	1					
	5135663	8													
	5135548	8													
	5135547	8													
	5135662	8													
	5144425	2	1			1	1								
	5198655	1		1	1	1	1								
2A	8924380	4	2	2	2	2	2	2	4	2	2	2	4	4	2
2A	5125237	17	5	5	5	4	4				4	4			
	8923847	4	2	1	2	2	2	6	11	6	2	2	12	12	6
2A	5154453	8	3	3	3	3	3	3	8	4	3	3	8	8	4
2A	5151449	6	3	3	3	5	2	3	6	3	3	3	6	6	3
	5139997					3	5								
	452664														
	INSERT, 5/16"-18X5/16" STAINLESS (12.9118)	4													
	+ OBSOLETE.														
	% NOT SERVICED; FOR SERVICE USE 5149425.														
	* NOT SERVICED. USE 5198202 (16) 5131614 INSERTS AND (4) 5131615 TUBES.														
1.2002 - GASKET KIT, CYLINDER HEAD OVERHAUL															
CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.															
	5199811	AR		AR		AR		AR		AR		AR		AR	
	5199812		AR		AR		AR		AR		AR		AR		AR
1.2005 - NOZZLE, CYLINDER HEAD WATER															
	5119293	8	6												
1.2010 - GASKET, CYLINDER HEAD COMPRESSION															
1B,C	5121254	6	4	3	4	3	4	4	6	3	4	3	6	6	3
1.2022 - GASKET, CYLINDER HEAD WATER AND OIL															
1A	5116290		4	4	4	4	4	4	8	4	4	4	8	8	4
1A,C	5121207		6	4	6	4	6	6	8	4	6	4	8	8	4
1B,C	5116122	4	2	2	2	2	2	2	4	2	2	2	4	4	2

1.2000 CYLINDER HEAD

PART			TYPES													
..FIG	..NUMBER	NAME AND DESCRIPTION	8 4	8 6	9 2	9 3	1 2 2	1 2 3	1 3 1	1 3 2	1 4 7	1 4 8	1 5 0	1 5 1	1 5 2	2 1 5
1.2022 - GASKET, CYLINDER HEAD WATER AND OIL (CONT'D)																
1A,C	5116292	RING, SEAL	2		1		1			2	1		1	2	2	1
1A	5116293	RING, SEAL		1		1		1	1			1				
1.2030 - STUD, CYLINDER HEAD																
2A	5121263	BOLT, 5/8"-11X6 1/4" (12 PT. HD.)		10	8	10	8	10	10	16	8	10	8	16	16	8
	5130926	BOLT, 5/8"-11X6 1/2" (12 PT. HD.)	9													
	5135954	BOLT, 5/8"-11X7.38" (12 PT. HD.)	7													
	5137275	WASHER, .68" I.D. X 1.00" O.D. X .12"	16													
1.2043 - COVER, CYLINDER HEAD WATER HOLE																
2A	5136610	COVER (PLAIN) (USE 3/8"-16X1" BOLT)		1	1	1	1	1	1	2						1
10C	5139226	COVER, 1/8"X3/8" PIPE TAP (1.1060)											1			
10C	5123352	COVER, 3/8" PIPE TAP	2								1	1			1	
10C	5109916	COVER, 1/2" PIPE TAP													1	
10C	5127837	COVER, 1/8" PIPE TAP, OFF CENTER												2		
10C	8924380	PLUG, 1/8" PIPE SQ. HD. (12.9550)											1		1	
10C	5145014	PLUG, 3/8" PIPE SQ. HD. (12.9550)	2								1	1	1		1	
10C	5115214	PLUG, 1/2" PIPE SQ. HD. (12.9550)													1	
	179839	BOLT, 3/8"-16X1" (12.9001)	4	2	2	2	2	2	2	4	2	2	2	4	4	2
2A	103321	LOCKWASHER, 3/8" (12.9200)	4	2	2	2	2	2	2	4	2	2	2	4	4	2
1.2044 - GASKET, CYLINDER HEAD WATER HOLE COVER																
2A	5116242	GASKET	2	1	1	1	1	1	1	2	1	1	1	2	2	1
1.2045 - TUBE, INJECTOR HOLE																
2A	5199527	TUBE KIT (INCLUDES SEAL RING IN 1.2046) (2.1290)	6	4	3	4	3	4	4	6	3	4	3	6	6	3
1.2046 - RING, INJECTOR HOLE TUBE SEAL																
2A	5104701	RING (PART OF KIT IN 1.2045) (2.1300)	6	4	3	4	3	4	4	6	3	4	3	6	6	3

1.2000 CYLINDER HEAD

FIG	PART NUMBER	NAME AND DESCRIPTION	COLUMN													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
	1.2001 - HEAD ASSY., CYLINDER															
	5196033	HEAD ASSY. (2 VALVE) 2-53	1													
	5197949	% HEAD ASSY. (2 VALVE) 3-53		1												
	5198203	HEAD ASSY. (4 VALVE) 3,6V53			1											
	5198204	% HEAD ASSY. (2 VALVE) 4-53				1										
	5198202	HEAD ASSY. (4 VALVE) 4,8V53					1									
	5198438	HEAD ASSY. (4 VALVE) 3, 6V53						1								
	5198370	% HEAD ASSY. (4 VALVE) (ALUMINUM) 3, 6V53							1							
	5133047	% HEAD ASSY. (4 VALVE) 4, 8V53								1						
	5134202	% HEAD ASSY. (2 VALVE) 2-53									1					
	5134203	% HEAD ASSY. (2 VALVE) 4-53										1				
	5102500	% HEAD ASSY. (4 VALVE) 3,6V53											1			
	5149425	HEAD ASSY., 3-53, 6V53, 4-VALVE												1		
	5149426	HEAD ASSY., 4-53, 4-VALVE													1	
		THE FOLLOWING ITEMS ARE ASSEMBLED TO THE CYLINDER HEAD.														
	5139997	PLUG, 7/8" DIA. CUP				3				5	3	5	3	3	5	
	8926347	PLUG, FUSE		1	1	1	1	1	1	1	1	1	1	1	1	
	5154453	PLUG, 3/8"-16 SPECIAL	4	4	4	4	4	4	4					4	4	
	8924380	PLUG, 1/8" PIPE (12.9550)	1	2	2	2	2	2	2					2	2	
	5150041	TUBE, INJECTOR HOLE (1.2045)			3				3				3			
	5131615	TUBE, INJECTOR HOLE (1.2045)						3		4						
	8925981	KIT, INJECTOR HOLE TUBE (INCLUDES SEAL RING 5104701) TUBE IS STAMPED "606" FOR IDENTIFICATION	2	3	3	4	4		3		3	4	3	3	4	
	5104701	RING (1.2046)	2	3	3	4	4	3	3	4	3	4	3	3	4	
	8921502	INSERT, EXHAUST VALVE (1.8330)						12		16			12	12	16	
	5116196	INSERT, EXHAUST VALVE (1.8330)	4	6		8					6	8				
	8921501	INSERT, EXHAUST VALVE (1.8330)			12		16		12							
	5131961	GUIDE, EXHAUST VALVE (1.8320)			12		16	12	12	16			12	12	16	
	5129919	GUIDE, EXHAUST VALVE (1.8320)	4	6		8					6	8				
	5119293	NOZZLE, WATER (DOUBLE OUTLET) (1.2005)			4		6	4	4	6			4	4	6	
	5144425	ADAPTOR, CYL. HD. FUSE PLUG			1											
		THE FOLLOWING ITEMS ARE SHIPPED LOOSE WITH THE CYLINDER HEAD.														
	8923847	PLUG, 1/4" PIPE (4.7001)	5	6	6	6	6	6	6				6	6	6	
	5151449	PLUG, 13/16" CUP SPECIAL	3	3	3	3	3	3					3	3	3	
	5144425	ADAPTOR, CYLINDER HEAD FUSE PLUG (1.2001)								1	1	1	1	1	1	
	5116262	ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK (2.7830)	1	1	1	1	1	1					1	1	1	
	5121252	ADAPTOR, CYLINDER HEAD GOVERNOR CONTROL LINK (2.7830)	1	1	1	1	1	1					1	1	1	
	5111467	SEAT, EXHAUST VALVE SPRING (1.8360)			12		16	12	12				12	12	16	
		% NOT SERVICED; SHOWN FOR REFERENCE ONLY.														

1.2000A ENGINE, LIFTER BRACKET

PART			TYPES											
..FIG ..	NUMBER ..	NAME AND DESCRIPTION ..	3 0	4 0	4 1	4 2	4 3	4 4	4 6	4 8	5 1	5 2	5 3	5 6
1.2070 - BRACKET, ENGINE LIFTER-FRONT														
2B	5129750	BRACKET (ITEM 1)	1	1					1				1	1
2B	5100428	BRACKET (LIFTER & GENERATOR MTG.) (ITEM 3)			1									
2B	5100429	BRACKET (LIFTER & GENERATOR MTG.) (ITEM 3)				1	1							
2B	5125488	BRACKET (LEFT BANK) (ITEM 2)						1		1				
2B	5127949	BRACKET (RIGHT BANK) (ITEM 2)						1						
2B	5128824	BRACKET, RH (ITEM 23) (1.2080)									1			
2B	5128823	BRACKET, LH (ITEM 23) (1.2080)										1		
	5164294	SPACER, 1/8" THICK (7.1581)	2	2	2	2	2		2				2	2
	179838	BOLT, 3/8"-16X7/8" (12.9001)								2				
	179839	BOLT, 3/8"-16X1" (12.9001)			3	2	3	4						
	5101377	BOLT, 3/8"-16 X 1" (W/SEAL AND LOCKING PATCH) (5.2020)				1								
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)	2	2					2				2	2
	180176	BOLT, 1/2"-13X1 3/8" (12.9001)	AR	AR	AR	AR	AR	AR	AR	AR	2	2	AR	AR
	103321	LOCKWASHER, 3/8" (12.9200)									2	2		
	103323	LOCKWASHER, 1/2" (12.9200)									2	2		
1.2080 - BRACKET, ENGINE LIFTER-REAR														
FOR ENGINES EQUIPPED WITH A THROTTLE CONTROL CROSS SHAFT, REFER TO 2.9305 FOR THE COMBINATION THROTTLE CONT ROL CROSS SHAFT AND REAR ENGINE LIFTER BRACKET.														
2B	5119379	BRACKET (ITEM 7) (1.2070)	1		1	1								1
2B	5124985	BRACKET (ITEM 17)		1									1	
2B	5125227	BRACKET (ITEM 5)					1							
2B	5116474	BRACKET (ITEM 5)							1					
2B	5128068	BRACKET (ITEM 7)								1				
2B	5128091	BRACKET (ITEM 15) (1.2070)									1	1		
	5123429	SPACER, 13/32 X 13/16 X 19/32 (2.3530)					1							
	9409028	BOLT, 3/8"-16X1" LOCK (12.9001)	2		2	2								2
	179844	BOLT, 3/8"-16X1 5/8" (12.9001)					2							
	5170492	BOLT, 3/8"-24X2 29/32" LOCK (12.9001)							AR					
	5170490	% BOLT, 3/8"-24X3 13/16" LOCK (12.9001)							1					
	186312	BOLT, 3/8"-24X4" (12.9001)							2					
	179872	BOLT, 7/16"-14X3 1/2" (12.9001)									2	2	2	
	180175	BOLT, 1/2"-13X1 1/4" (12.9001)								2			2	
	180176	BOLT, 1/2"-13X1 3/8" (12.9001)		2						2			2	
	103321	LOCKWASHER, 3/8" (12.9200)					AR		AR					
	103322	LOCKWASHER, 7/16" (12.9200)									2	2		
	103323	LOCKWASHER, 1/2" (12.9200)		2						2			2	
		% OBSOLETE.												

1.2000A ENGINE, LIFTER BRACKET

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 1	6 3	6 5	6 9	7 2	7 5	7 8	8 0	9 0	9 5	9 7	9 8
1.2070 - BRACKET, ENGINE LIFTER-FRONT														
2B	5129750	BRACKET (ITEM 1)			1	1								
2B	5100428	BRACKET (LIFTER & GENERATOR MTG.) (ITEM 3)		1										
2B	5125488	BRACKET (LEFT BANK) (ITEM 3)											1	
2B	5162868	+ BRACKET (LIFTER & FUEL FILTER MTG.) (ITEM 3)	1											
2B	5132119	BRACKET (LIFTER & GENERATOR MTG.) (ITEM 18)					1							
2B	5135180	BRACKET (RIGHT BANK) (ITEM 10)							1					
2B	5134161	BRACKET (LEFT BANK) (ITEM 10)							1					
2B	5133606	BRACKET (ITEM 21)								2				
2B	5137761	BRACKET (ITEM 7)									1			
2B	5133584	+ BRACKET (ITEM 4)										1		
	5164294	SPACER, 1/8" THICK (7.1581)	2	2	2	2	2							
	179839	BOLT, 3/8"-16X1" (12.9001)	3	3			3		6	4				
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)			2	2								
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)										2	2	
	180147	BOLT, 7/16"-14X1 1/4" (12.9001)									2		2	
	103341	WASHER, 3/8" (12.9190)					3							
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR	AR	AR		AR	AR		AR		
	103322	LOCKWASHER, 7/16" (12.9200)								2		2		
		+ OBSOLETE.												
1.2080 - BRACKET, ENGINE LIFTER-REAR														
FOR ENGINES EQUIPPED WITH A THROTTLE CONTROL CROSS SHAFT, REFER TO 2.9305 FOR THE COMBINATION THROTTLE CONT ROL CROSS SHAFT AND REAR ENGINE LIFTER BRACKET.														
2B	5119379	BRACKET (ITEM 7) (1.2070)				1	1	2						
2B	5116474	BRACKET (ITEM 5)	1	1	1									
2B	5127949	BRACKET (ITEM 2) (1.2070)							1					1
2B	5137761	BRACKET (ITEM 7)								1	2	2	2	
	9409028	BOLT, 3/8"-16X1" LOCK (12.9001)				2	2	4						
	179844	BOLT, 3/8"-16 X1 5/8" (12.9001)												4
	5170492	BOLT, 3/8"-24X2 29/32" LOCK (12.9001)		3										
	5170493	+ BOLT, 3/8"-24X3 5/32" LOCK (12.9001)			3									
	5170490	+ BOLT, 3/8"-24X3 13/16" LOCK (12.9001)	1											
	180147	BOLT, 7/16"-14X1 1/4" (12.9001)								2	4	4	4	
	103342	WASHER, 7/16" (12.9190)								2	4	4	4	
	103321	LOCKWASHER, 3/8" (12.9200)	AR	AR	AR								AR	
	103322	LOCKWASHER, 7/16" (12.9200)								4	4	4	4	
		+ OBSOLETE.												

1.2000A ENGINE, LIFTER BRACKET

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES											
			1 0 0	1 0 3	1 0 8	1 1 1	1 1 4	1 1 6	1 1 7	1 2 0	1 2 2	1 2 3	1 3 3	1 3 8
1.2070 - BRACKET, ENGINE LIFTER-FRONT														
FOR TYPES 104 & 107 USE TYPE 103.														
2B	5136176	BRACKET (ITEM 13)	1						1					
2B	5129750	BRACKET (ITEM 1)		1	1						1	1		1
2B	5137032	BRACKET (ITEM 14)				1								
2B	5125488	BRACKET (ITEM 3)					1	1					1	
2B	5127949	BRACKET (ITEM 2)								1				
	5164294	SPACER, 1/8" THICK (7.1581)		2	2						2	2		2
	179838	BOLT, 3/8"-16 X 7/8" (12.9001)					2						2	
	179839	BOLT, 3/8"-16X1" (12.9001)	2					2	2	4				
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)		2	2	3					2	2		2
	103321	LOCKWASHER, 3/8" (12.9200)	2	2	2	3	2	2	2	4	2	2	2	2
1.2080 - BRACKET, ENGINE LIFTER-REAR														
FOR ENGINES EQUIPPED WITH A THROTTLE CONTROL CROSS SHAFT, REFER TO 2.9305 FOR THE COMBINATION THROTTLE CONT ROL CROSS SHAFT AND REAR ENGINE LIFTER BRACKET.														
2B	5136166	BRACKET (ITEM 11)	1											
2B	5119379	BRACKET (ITEM 7)		1				1						
10A,B	5137035	BRACKET				1								
2B	5116474	BRACKET (ITEM 5)							1					
2B	5107464	+ BRACKET (ITEM 6)									1			
2B	5139567	BRACKET (ITEM 8)										1		
2B	5109942	BRACKET (ITEM 19)											1	
2B	5125227	BRACKET (ITEM 9)												1
	5175882	GASKET (4.4115)							2		1	2		
	5123429	SPACER, 13/32" X 13/16" X 19/32" (2.3530)												1
	186612	BOLT, 3/8"-16X3/8" (12.9001)											3	
	179838	BOLT, 3/8"-16X7/8" (12.9001)									3	4		
	9409028	BOLT, 3/8"-16X1" (12.9001)		2				2						
	5170492	BOLT, 3/8"-24X29/32" LOCK (12.9001)	3						3					
	427564	BOLT, 7/16"-14X1 3/8" (12.9001)				2								
	180176	BOLT, 1/2"-13X1 3/8" (12.9001)												2
	103321	LOCKWASHER, 3/8" (12.9200)									1	2	3	2
	103322	LOCKWASHER, 7/16" (12.9200)				2								
		+ OBSOLETE.												

1.2000A ENGINE, LIFTER BRACKET

PART
FIG ... NUMBER ... NAME AND DESCRIPTION

TYPES

1.2070 - BRACKET, ENGINE LIFTER-FRONT

2B	5137032	BRACKET (ITEM 14)
2B	5135500	BRACKET (ITEM 12)
2B	5144998	BRACKET (ITEM 7)
2B	5129750	BRACKET (ITEM 1)
2B	5100428	* BRACKET (R.H.) (ITEM 3)
2B	5100429	* BRACKET (L.H.) (ITEM 3)
2B	5127949	BRACKET (R.H.) (ITEM 2)
2B	5125488	BRACKET (L.H.) (ITEM 3)
2B	5134161	BRACKET (L.H.) (ITEM 1)
	5116242	GASKET (1.2044)
2A	5164294	SPACER, 1/8" THICK (7.1581)
	8927580	BOLT, 3/8"-16X1.015" (12.9001)
	179839	BOLT, 3/8"-16X1" (12.9001)
	8927581	BOLT, 3/8"-16X1" LOCK (12.9001)
	186619	BOLT, 3/8"-16X1 1/8" (12.9001)
	5101377	BOLT, 3/8"-16X1" (W/SEAL PATCH) (5.2020)
	427588	BOLT, 3/8"-16X2 1/2" (12.9001)
	103341	WASHER, 3/8" (12.9190)
	103321	LOCKWASHER, 3/8" (12.9200)
		* INCLUDES GENERATOR MOUNTING.

1.2080 - BRACKET, ENGINE LIFTER-REAR

FOR ENGINES EQUIPPED WITH A
THROTTLE CONTROL CROSS SHAFT.
REFER TO 2.9305 FOR THE COMBINATION
THROTTLE CONTROL CROSS SHAFT AND
REAR ENGINE LIFTER BRACKET.

2B	5119379	BRACKET (ITEM 7) (1.2070)
2B	5116474	BRACKET (ITEM 5)
2B	5125488	BRACKET (ITEM 3)
2B	5124985	BRACKET (ITEM 17)
2B	5101634	BRACKET (ITEM 6) (2.9305)
2B	5107174	BRACKET (ITEM 16)
2B	5134161	BRACKET (ITEM 1)
	5175882	GASKET (4.4115)
2B	179839	BOLT, 3/8"-16X1" (12.9001)
	454813	BOLT, 3/8"-16X7/8" (12.9001)
	8927581	BOLT, 3/8"-16X1" (12.9001)
	5170492	BOLT, 3/8"-24X2 29/32" LOCK (12.9001)
	186310	BOLT, 3/8"-24X3 1/2" (12.9001)
	186312	BOLT, 3/8"-24X4" (12.9001)
	442733	BOLT, 1/2"-13X1 1/4" (12.9001)
	180176	BOLT, 1/2"-13X1 3/8" (12.9001)
	103321	LOCKWASHER, 3/8" (12.9200)

1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS

PART		NAME AND DESCRIPTION	TYPES											
FIG	NUMBER		1 9	2 0	2 1	2 2	3 0	3 5	3 6	3 9	4 0	4 1	4 3	4 4
1.3001 - CRANKSHAFT ASSY.														
A CRANKSHAFT ASSY. INCLUDES PLUG AND DOWEL IN 1.3001. WHEN REPLACING A CRANKSHAFT ASSY. INCLUDE AN OIL PUMP DRIVE GEAR IN 4.1310 FOR A 2, 3, 4 & 6V.														
3A	5116446	CRANKSHAFT ASSY; 2-53	1											
3A	5106709	+ CRANKSHAFT ASSY. (8926897) 3-53		1								1		
3A	5104549	+ CRANKSHAFT ASSY. (8926898) 4-53			1									
3A	5144616	CRANKSHAFT ASSY; 6V-53				1				1			1	
3A	5144617	CRANKSHAFT ASSY; 6V-53 (SPLINED)					1							
3A	5199320	* CRANKSHAFT ASSY; 3-53 (5106709)						1						
3B	5198291	# CRANKSHAFT ASSY; 8V-53 INCLS SLEEVE							1					
3B	5136592	CRANKSHAFT ASSY; 8V-53								1				
3B	5198290	BEARING, CRANKSHAFT FRONT SUPPORT							1					
	5177528	DOWEL						2		2				
3A	8924380	PLUG, 1/8" PIPE (12.9550)	2	3	4	9	3	3	5	3	5	9	3	
3A	141355	PLUG, 1/4"x1/4" DRIVE							2					
* NOT SERVICED; USE CRANKSHAFT SHOWN IN PARENTHESES AND INCLUDE A 5142713 OIL PUMP DRIVE GEAR.														
# REQUIRES USE OF 5198289 SEAL AND 5136567 SPACER.														
+ NOT SERVICED. USE PART NUMBER IN PARENTHESES.														
1.3040 - SEAL, CRANKSHAFT OIL-FRONT														
3A,4B	5116224	SEAL	1	1	1	1	1			1		1		
	5115454	SEAL						1			1			
	5198289	SEAL,8V-53, USE WITH SLEEVE BRG IN GRP 1.3056							1					
	5138796	SEAL										1	1	
	5198503	SEAL, SINGLE LIP O.S.- USE WITH 5198502 SLEEVE IN 1.3001.	1	1	1	1	1					1	1	
	5148314	SEAL (W/EXCLUDER LIP)		1										
1.3055 - SPACER, CRANKSHAFT FRONT OIL SEAL														
3B	5136567	SPACER (SLEEVE)						1						
	5138786	SPACER								1		1	1	
	5180291	RETAINER (WASHER) (1.3290)								1		1	1	
	271632	BOLT, 3/4"-16X1 3/4" (12.9001)								1		1	1	
1.3056 - SLEEVE, CRANKSHAFT FRONT OIL SEAL SPACER														
3B	5198502	SLEEVE,2,3,4,6V53 (USE WITH 5198503 SEAL IN GRP 1.3040)	1	1	1	1	1					1	1	
	5138945	SLEEVE, 6V53 (1.3055)							1			1	1	

1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	1 9	2 0	2 1	2 2	3 0	3 5	3 6	3 9	4 0	4 1	4 3	4 4
1.3060 - SEAL, CRANKSHAFT OIL-REAR														
3A,5A	5116229	SEAL (SINGLE LIP, STANDARD)	1	1	1	1	1	1				1	1	1
3A,5A	5128917	@ SEAL (DOUBLE LIP, STANDARD)		1	1	1								1
	8926902	SEAL AND SLEEVE KIT (SINGLE LIP, TEFLON, STANDARD) (6V53 R.H. ROTATING UNITS ONLY)				AR	AR			AR			AR	AR
	8924374	SEAL (SINGLE LIP, O.S., USE WITH 5196851 SLEEVE) (6V53 R.H. ROTATING UNITS ONLY, TEFLON)				AR	AR			AR			AR	AR
3A,5A	5196852	SEAL (SINGLE LIP, O.S., USE WITH 5196851 SLEEVE)	AR	AR	AR	AR		AR					AR	AR
3A,5A	5114335	SEAL, 8V-53 (SINGLE LIP, STANDARD)							1		1			
	5197860	SEAL (SINGLE LIP, O.S., USE WITH 5198908)							AR		AR			
3A,5A	5199477	SEAL (DOUBLE LIP, O.S., USE WITH 5196851 SLEEVE) @ USED ONLY ON UNITS WITH OIL IN FLYWHEEL HOUSING.		AR	AR	AR								AR
1.3065 - SPACER, CRANKSHAFT REAR OIL SEAL														
	5192496	* SPACER * USED ONLY WITH SINGLE LIP OIL SEAL.							AR		AR			
1.3066 - SLEEVE, CRANKSHAFT REAR OIL SEAL														
	5196851	SLEEVE (WITH O.S. OIL SEAL)	AR	AR	AR	AR	AR	AR		AR		AR	AR	AR
	5198908	SLEEVE (WITH O.S. OIL SEAL)							AR		AR			
1.3090 - SHELL, CRANKSHAFT MAIN BEARING														
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER SHELL.														
	8924357	SHELL SET (STD INLINE)	AR	AR	AR			AR						
	8924358	SHELL SET (.002" U.S.)	AR	AR	AR			AR						
	8924359	SHELL SET (.010" U.S.)	AR	AR	AR			AR						
	8924360	SHELL SET (.020" U.S.)	AR	AR	AR			AR						
	5196663	SHELL SET (.030" U.S.)	AR	AR	AR			AR						
	5107802	SHELL SET (.010" O.S.O.D. W/STD. I.D.)	AR	AR	AR			AR						
	5107803	SHELL SET (.020" O.S.O.D. W/STD. I.D.)	AR	AR	AR			AR						
	5195927	* SHELL SET (STD 6,8V53)					AR	AR		AR		AR		AR
	5196684	* SHELL SET (.002" U.S.)					AR	AR		AR		AR		AR
	5196685	* SHELL SET (.010" U.S.)					AR	AR		AR		AR		AR
	5196686	* SHELL SET (.020" U.S.)					AR	AR		AR		AR		AR
	5196687	* SHELL SET (.030" U.S.)					AR	AR		AR		AR		AR
	5107810	* SHELL SET (.010" O.S.O.D. W/STD. I.D.)					AR	AR		AR		AR		AR
	5107811	* SHELL SET (.020" O.S.O.D. W/STD. I.D.)					AR	AR		AR		AR		AR
	5198410	+ SHELL SET (STD 6,8V53-7 HOLE)									AR			AR
	5198411	+ SHELL SET (.002" U.S.)												AR
	5198412	+ SHELL SET (.010" U.S.)												AR
	5198413	+ SHELL SET (.020" U.S.)												AR
	5198414	+ SHELL SET (.030" U.S.)												AR
	5107812	+ SHELL SET (.010" O.S.O.D. W/STD. I.D.)												AR
	5107813	+ SHELL SET (.020" O.S.O.D. W/STD. I.D.) * THRU 8D-4610. + EFF. WITH 8D-4611.												AR

1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS

PART ...FIG ... NUMBER NAME AND DESCRIPTION			TYPES											
			1 9	2 0	2 1	2 2	3 0	3 5	3 6	3 9	4 0	4 1	4 3	4 4
1.3100 - WASHER, CRANKSHAFT MAIN BEARING THRUST														
3A	5116197	WASHER, STD. INLINE 53	4	4	4			4				4		
3A	5198755	WASHER (.005" O.S.)	AR	AR	AR			AR				AR		
3A	5198756	WASHER (.010" O.S.)	AR	AR	AR			AR				AR		
3A	5159353	WASHER, STD 6.8V53				4	4		4	4	4		4	4
3A	5160542	WASHER (.005" O.S.)				AR	AR		AR		AR		AR	AR
3A	5192111	WASHER (.010" O.S.)				AR	AR		AR		AR		AR	AR
3A	141346	PIN, 3/16"X1/2" DOWEL (12.9290)	4	4	4	4	4	4	4	4	4	4	4	4
3A	5149149	PIN, 7/32"X1/2" DOWEL (1/32" O.S.)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.3110 - CAP, CRANKSHAFT MAIN BEARING														
3A	5133620	CAP, GAMA GOAT (CAST IRON) (UNFINISHED)						AR						
3A	5116142	CAP, INLINE 53 (CAST IRON) (UNFINISHED)	AR	AR	AR							AR		
3A	5135258	CAP, V-53 (MALLEABLE IRON) (UNFINISHED)				AR	AR		AR		AR		AR	AR
3A	5132479	CAP, V-53 (CAST IRON) (UNFINISHED)				AR	AR		AR		AR		AR	AR
3A	5137937	CAP, 6V53 (CAST IRON) (AL BLOCK) (UNFINISHED)								AR				
3A	5197345	CAP, REAR MAIN, GAMA GOAT (CAST IRON) (FINISHED)						AR						
3A	5195935	CAP, REAR MAIN, INLINE 53 (CAST IRON) (FINISHED)	AR	AR	AR							AR		
3A	5195936	* CAP, REAR MAIN (CAST IRON) (FINISHED)				AR	AR							AR
3A	5199506	CAP, REAR MAIN, V-53 (MALLEABLE IRON) (FINISHED)				AR	AR		AR		AR		AR	AR
3A	5198147	CAP, REAR MAIN, V-53 (CAST IRON) (FINISHED)				AR	AR		AR	AR	AR		AR	AR
3A	5149930	CAP, INTERMEDIATE GAMA GOAT (CAST IRON) (FINISHED)						AR						
3A	5149929	CAP, INTERMEDIATE, INLINE 53 (CAST IRON) (FINISHED)	AR	AR	AR							AR		
3A	5149932	CAP, INTERMEDIATE, V-53 (MALLEABLE IRON) (FINISHED)				AR	AR		AR		AR		AR	AR
3A	5149931	CAP, INTERMEDIATE, V-53 (CAST IRON) (FINISHED)				AR	AR		AR	AR	AR		AR	AR
		* NOT SERVICED; USE 5198147 CAP AND INCLUDE 2-179837 BOLT, 2-5138619 WASHER AND 2-103321 LOCKWASHER IN 4.15 10.												
1.3112 - STABILIZER, CRANKSHAFT MAIN BEARING CAP														
5138768	%	STABILIZER, 4-53			1									
5132695	+	STABILIZER, 6, 8V53 (FRONT ON 8V)				4	4		2		2			4
5132695	@	STABILIZER, 6V53				2	2							2
5133675		STABILIZER, 3-53						1						
5132902		STABILIZER, 8V53 (LEFT REAR)							1		1			
5132903		STABILIZER, 8V53 (RIGHT REAR)							1		1			
5136179		STABILIZER, 6V53								4				1