SEBP1306

parts

3208 Industrial Engine

Naturally Aspirated

90N52893-UP

QUICK REFERENCE CHARTS

USE THESE CHARTS TO RECORD FREQUENTLY USED MAINTENANCE INFORMATION

MACHINE SERIAL NO.	
EQUIPMENT NO.	

FREQUENTLY REPLACED ITEMS

PART NO.	PART NAME

FLUIDS & LUBRICANTS

WHERE USED	TYPE	AMOUNT

OTHER MAINTENANCE ITEMS

FORM SEBP1306

)NTENTS

'ALPHABETICAL INDEX OF GROUPS__ 3
:ONVERSION EQUIVALENT
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)RDERING PARTS_____ 2
)UICK REFERENCE
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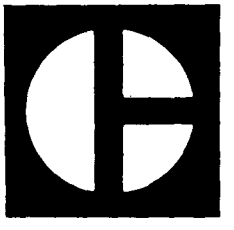
JSING THE PARTS BOOK_____2



PARTS BOOK

3208

NDUSTRIAL ENGINE

SERIAL NUMBER
)0N52893—UP

'UBLISHED DECEMBER 1980
:ATERPILLAR TRACTOR CO.
'UBLICATIONS DIV.—SERVICE G.O.
'EORIA, ILL. U.S.A.

QUICK REFERENCE GUIDE TO MAJOR SECTIONS

BASIC ENGINE
LUBRICATION SYSTEM
COOLING SYSTEM
INTAKE & EXHAUST SYSTEM
FUEL SYSTEM & GOVERNOR
STARTING & ELECTRICAL SYSTEM
SERVICE EQUIPMENT & SUPPLIES

ENGINE IDENTIFICATION Caterpillar engines are identified with SERIAL NUMBERS and A RANGEMENT NUMBERS. In some cases MODIFICATION NUMBE are also used. These numbers are shown on the serial number pl mounted on the engine. The Specification Section at the back of this Parts Book indicates location of the serial number plate.

Caterpillar dealers need all of these numbers to determine which components were incluc on the engine when it was assembled at the factory. This permits accurate identification replacement part numbers.

ORDERING PARTS Quality Caterpillar Replacement parts are available from Caterpillar deal throughout the world. Their parts stocks are up to date and include all pa normally required to protect your investment in Caterpillar engines. Wl ordering parts, your order should specify the quantity, part number, part name and the se number, arrangement number and modification number of the engine for which the parts needed. If in doubt about the part number, please provide your dealer with a compl description of the needed item.

HOW TO USE THE PARTS BOOK Caterpillar Parts Books include illustrations of the groups or assemblies which make up the engine. These illustrations show the standard components plus many of the attachments available for the engine.

The alphabetical index located in the front part of the book should be used to determine the page number on which specific illustrations are shown. Reference to those pages will identify each of the individual serviceable parts.

Captions The caption under each illustration identifies the part number and name of the group or assembly shown. If more than one illustration is included for any group, the caption identifies the specific engine serial numbers to which each illustration applies. In some cases it is not possible to determine the specific engine serial numbers to which different illustrations are applicable. In those cases the caption identifies the illustration as "First Type", "Second Type", etc. Reference to the actual group or assembly is necessary in those cases to determine which illustration should be used.

Captions provide additional information such as page numbers where illustrations of sub assemblies are shown, information reguarding quantities used and other information intended to assist the user in determining parts needs.

Indented Part Names Within each illustration is parts list identifying each viceable part in the illustrati When a part name is indented in this list means that serviceable item is a part of serviceable item under which it is indent

Abbreviations and Symbols

▲ ●	Used to call attention to additic information shown elsewhere w in the illustration.	
R.H. L.H.	Right Hand Left Hand	Refers to the sid the engine as viev from the flywl end.
C	Indicates changes from the previ illustration of the same group assembly.	
O.D.	Outside Diameter	
I.D.	Inside Diameter	
N/S	Not Serviced	
Assem.	Assembly	
in.	Inch	
ft	Foot	
cm	Centimeter	
dm	Decimeter	

Note: Continuing improvement and vancement of product design may ca changes to your engine which may not included in this publication. Each publ tion is reviewed and revised, as required, update and include these changes in la editions.

Whenever a question arises regarding y Caterpillar product, or this publicati please consult your Caterpillar dealer for latest available information.

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156.6 brake kW (210 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

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1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR AND FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W319 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W320 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
LUBRICATION SYSTEM			
1	9N2538	Oil Level Gauge Group	110
1	1W2638	Oil Filter Group	115
1	9N6632	Engine Oil Lines Group	116
1	1W2206	Oil Pump Group	113
COOLING SYSTEM			
1	9N729	Engine Oil Cooler Group	118
1	9N733	Water Lines Group	119
1	9N3654	Water Pump Group	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	Exhaust Manifold Group	137
1	9N555	Inlet Manifold Group	140
1	9N735	Positive Crankcase Ventilation Valve Group	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	Governor Control Group	178
1	9N740	Governor and Fuel Pump Drive Group	145
1	9L6925	Fuel System Fastener Group	191
1	4N5868	Fuel Filter Group	188
1	9N435	Fuel Filter Lines Group	182
1	9N3880	Fuel Injection Lines Group	180
1	4N4314	Fuel Priming Pump Group	190
1	9N3757	Governor and Fuel Injection Pump Group	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W320 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W321 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N5639	GOVERNOR AND FUEL INJECTION PUMP GROUP	151B

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W321 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV V and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W322 ENGINE ARRANGEMENT—Part 1
56.6 brake kW (210 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W322 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pa R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W323 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with R.H. Oil Level Gauge Center Sump Oil Pan, R.H. Mounted PCV Valve and Sae No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W323 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV. Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1N3563	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W324 ENGINE ARRANGEMENT—Part 1
146.2 brake kW (196 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

CONSISTS OF:			PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N521	ENGINE OIL COOLER GROUP	117
1	6N466	WATER LINES GROUP	120
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N6124	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N5904	GOVERNOR AND FUEL INJECTION PUMP GROUP	147

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W324 ENGINE ARRANGEMENT—Part 2
146.2 brake kW (196 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W325 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR AND FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W325 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	1W2200	Connecting Rod and Piston Group	88
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	4N5866	Flywheel Housing Cover Group	104
1	9N5870	Flywheel Housing Group	104
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W326 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and Sae No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR AND FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W326 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	1W2200	Connecting Rod and Piston Group	88
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	9L7861	Flywheel Housing Cover Group	105
1	9N529	Flywheel Housing Group	103
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W327 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W327 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W328 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W328 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engien with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W329 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W329 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W330 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
LUBRICATION SYSTEM			
1	4N8855	Oil Level Gauge Group	109
1	1W2638	Oil Filter Group	115
1	9N6634	Engine Oil Lines Group	116
1	1W2206	Oil Pump Group	113
COOLING SYSTEM			
1	9N729	Engine Oil Cooler Group	118
1	9N733	Water Lines Group	119
1	9N3654	Water Pump Group	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	Exhaust Manifold Group	137
1	9N555	Inlet Manifold Group	140
1	9N735	Positive Crankcase Ventilation Valve Group	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	Governor Control Group	178
1	9N740	Governor and Fuel Pump Drive Group	145
1	9L6925	Fuel System Fastener Group	191
1	4N5868	Fuel Filter Group	188
1	9N435	Fuel Filter Lines Group	182
1	9N3880	Fuel Injection Lines Group	180
1	4N4314	Fuel Priming Pump Group	190
1	9N3757	Governor & Fuel Injection Pump Group	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W330 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	1N3563	Connecting Rod and Piston Group	89
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	9L7861	Flywheel Housing Cover Group	105
1	9N529	Flywheel Housing Group	103
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W333 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N521	ENGINE OIL COOLER GROUP	117
1	6N466	WATER LINES GROUP	120
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	9N535	EXHAUST MANIFOLD GROUP	138
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W333 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	9N3538	Connecting Rod and Piston Group	88
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	9L7861	Flywheel Housing Cover Group	105
1	9N529	Flywheel Housing Group	103
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W334 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	9N535	EXHAUST MANIFOLD GROUP	138
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W334 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	1N3563	Connecting Rod and Piston Group	89
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	9L7861	Flywheel Housing Cover Group	105
1	9N529	Flywheel Housing Group	103
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W335 ENGINE ARRANGEMENT—Part 1
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N521	ENGINE OIL COOLER GROUP	117
1	6N466	WATER LINES GROUP	120
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	137
1	9N6124	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N5906	GOVERNOR & FUEL INJECTION PUMP GROUP	152

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W335 ENGINE ARRANGEMENT—Part 2
156.6 brake kW (210 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valv and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

CONSISTS OF:			PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W336 ENGINE ARRANGEMENT—Part 1
146.2 brake kW (196 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	9N535	EXHAUST MANIFOLD GROUP	138
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W336 ENGINE ARRANGEMENT—Part 2
146.2 brake kW (196 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W337 ENGINE ARRANGEMENT—Part 1
135 brake kW (181 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		Consists of:	Page
LUBRICATION SYSTEM			
1	9N2538	Oil Level Gauge Group	110
1	1W2638	Oil Filter Group	115
1	9N6641	Engine Oil Lines Group	115
1	1W2206	Oil Pump Group	113
COOLING SYSTEM			
1	9N729	Engine Oil Cooler Group	118
1	9N733	Water Lines Group	119
1	9N3654	Water Pump Group	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	Exhaust Manifold Group	137
1	9N555	Inlet Manifold Group	140
1	9N735	Positive Crankcase Ventilation Valve Group	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	Governor Control Group	178
1	9N740	Governor and Fuel Pump Drive Group	145
1	9L6925	Fuel System Fastener Group	191
1	4N5868	Fuel Filter Group	188
1	9N435	Fuel Filter Lines Group	182
1	9N3880	Fuel Injection Lines Group	180
1	4N4314	Fuel Priming Pump Group	190
1	8N1046	Governor and Fuel Injection Pump Group	148

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W337 ENGINE ARRANGEMENT—Part 2
135 brake kW (181 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valv and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1N3563	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W338 ENGINE ARRANGEMENT—Part 1
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N521	ENGINE OIL COOLER GROUP	117
1	6N466	WATER LINES GROUP	120
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W338 ENGINE ARRANGEMENT—Part 2
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and No. 2 Flyweel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W339 ENGINE ARRANGEMENT—Part 1
123.8 brake kW (166 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR & FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W339 ENGINE ARRANGEMENT—Part 2
123.8 brake kW (166 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valv and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W340 ENGINE ARRANGEMENT—Part 1
119.3 brake kW (160 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	191
1	8N9280	GOVERNOR & FUEL INJECTION PUMP GROUP	153

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W340 ENGINE ARRANGEMENT—Part 2
119.3 brake kW (160 bhp) Engine with R.H. Oil Level Gauge Center Sump Oil Pan R.H. Mounted PCV Valve and SAE No.2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	9L7861	FLYWHEEL HOUSING COVER GROUP	105
1	9N529	FLYWHEEL HOUSING GROUP	103
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	105

1W341 ENGINE ARRANGEMENT—Part 1
115.6 brake kW (155 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N1041	GOVERNOR AND FUEL INJECTION PUMP GROUP	153

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W341 ENGINE ARRANGEMENT—Part 2
115.6 brake kW (155 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W342 ENGINE ARRANGEMENT—Part 1
115.6 brake kW (155 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N1041	GOVERNOR AND FUEL INJECTION PUMP GROUP	153

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W342 ENGINE ARRANGEMENT—Part 2
115.6 brake kW (155 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERNG PARTS GIVI ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W343 ENGINE ARRANGEMENT—Part 1
106 brake kW (142 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

CONSISTS OF:			PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N1046	GOVERNOR & FUEL INJECTION PUMP GROUP	148

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W343 ENGINE ARRANGEMENT—Part 2
106 brake kW (142 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE

		Consists of:	Page
CENTRAL STRUCTURE			
1	9N3761	Cylinder Block Group	80
1	9N728	Single Camshaft Group	88
1	9L6065	Cylinder Block Cover Group	81
1	9N6222	Crankshaft Group	84
8	1W2200	Connecting Rod and Piston Group	89
1	9N542	Crankshaft Seal Group	85
UPPER STRUCTURE			
1	9N730	Valve Mechanism Cover Group	93
1	9N1105	Cylinder Head Group	90
2	9N191	Lifting Group	94
1	9N487	Valve Mechanism Group	92
FRONT STRUCTURE			
1	9N560	Front Housing Cover Group	97
1	9N5590	Pulley and Damper Group	87
1	9N5211	Front Housing Group	96
1	9N5224	Engine Support Group	98
REAR STRUCTURE			
1	9L7861	Flywheel Housing Cover Group	105
1	9N529	Flywheel Housing Group	103
LOWER STRUCTURE			
1	9N565	Oil Pan Group	107

1W344 ENGINE ARRANGEMENT—Part 1
106 brake kW (142 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6632	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
FUEL SYSTEM AND GOVERNOR			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N1046	GOVERNOR & FUEL INJECTION PUMP GROUP	148

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W344 ENGINE ARRANGEMENT—Part 2
106 brake kW (142 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	9N565	OIL PAN GROUP	107

1W345 ENGINE ARRANGEMENT—Part 1
104.4 brake kW (140 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
LUBRICATION SYSTEM			
1	9N2538	OIL LEVEL GAUGE GROUP	110
1	1W2638	OIL FILTER GROUP	115
1	9N6641	ENGINE OIL LINES GROUP	115
1	1W2206	OIL PUMP GROUP	113
COOLING SYSTEM			
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
INTAKE AND EXHAUST SYSTEM			
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
GOVERNOR AND FUEL SYSTEM			
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	9N3757	GOVERNOR AND FUEL INJECTION PUMP GROUP	146

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W345 ENGINE ARRANGEMENT—Part 2
104.4 brake kW (140 bhp) Engine with Front Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
CENTRAL STRUCTURE			
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N728	SINGLE CAMSHAFT GROUP	88
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
1	9N542	CRANKSHAFT SEAL GROUP	85
UPPER STRUCTURE			
1	9N730	VALVE MECHANISM COVER GROUP	93
1	9N1105	CYLINDER HEAD GROUP	90
2	9N191	LIFTING GROUP	94
1	9N487	VALVE MECHANISM GROUP	92
FRONT STRUCTURE			
1	9N560	FRONT HOUSING COVER GROUP	97
1	9N5590	PULLEY AND DAMPER GROUP	87
1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
REAR STRUCTURE			
1	4N5866	FLYWHEEL HOUSING COVER GROUP	104
1	4N5870	FLYWHEEL HOUSING GROUP	104
LOWER STRUCTURE			
1	4N8853	OIL PAN GROUP	107

1W346 ENGINE ARRANGEMENT—Part 1
104.4 brake kW (140 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

		CONSISTS OF:	PAGE
		LUBRICATION SYSTEM	
1	4N8855	OIL LEVEL GAUGE GROUP	109
1	1W2638	OIL FILTER GROUP	115
1	9N6634	ENGINE OIL LINES GROUP	116
1	1W2206	OIL PUMP GROUP	113
		COOLING SYSTEM	
1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125
		INTAKE AND EXHAUST SYSTEM	
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
		FUEL SYSTEM AND GOVERNOR	
1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N740	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
1	9N435	FUEL FILTER LINES GROUP	182
1	9N3880	FUEL INJECTION LINES GROUP	180
1	4N4314	FUEL PRIMING PUMP GROUP	190
1	8N9280	GOVERNOR & FUEL INJECTION PUMP GROUP	153

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W346 ENGINE ARRANGEMENT—Part 2
104.4 brake kW (140 bhp) Engine with R.H. Oil Level Gauge, Center Sump Oil Pan R.H. Mounted PCV Valve and SAE No. 3 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER

1	9N529	FLYWHEEL HOUSING GROUP	103
1	4N8850	FLYWHEEL GROUP	99
		LOWER STRUCTURE	
1	9N565	OIL PAN GROUP	107

1W347 ENGINE ARRANGEMENT—Part 1—For Clayson
107.4 brake kW (144 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Valve and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND SERIAL NUMBER