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1	9N560 FRONT HOUSING COVER GROUP	97
1	9N5590 PULLEY AND DAMPER GROUP	87
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1	9N733 WATER LINES GROUP	119
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1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
8	1N3563	CONNECTING ROD AND PISTON GROUP	89
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1	9N730	VALVE MECHANISM COVER GROUP	93
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1	9N5211	FRONT HOUSING GROUP	96
1	9N5224	ENGINE SUPPORT GROUP	98
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1	6N466	WATER LINES GROUP	120
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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
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1	9N6222 CRANKSHAFT GROUP	84
8	1N3563 CONNECTING ROD AND PISTON GROUP	89
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1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
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1	9N560 FRONT HOUSING COVER GROUP	97
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COOLING SYSTEM

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1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
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1	9N3846	AIR CLEANER ADAPTER GROUP	142

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1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	4N5868	FUEL FILTER GROUP	188
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1W351 ENGINE ARRANGEMENT—Part 2—For Sperry—New Holland
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1	9N6222 CRANKSHAFT GROUP	84
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1	9N730 VALVE MECHANISM COVER GROUP	93
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2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
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1	9N5224 ENGINE SUPPORT GROUP	98
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1	4N8853 OIL PAN GROUP	107

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1	9N6124 GOVERNOR AND FUEL PUMP DRIVE GROUP	145
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1W352 ENGINE ARRANGEMENT—Part 2—For Steiger
156.6 brake kW (210 bhp) Engine with R.H. Mounted Oil Level Gauge, Center
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1	9L6065 CYLINDER BLOCK COVER GROUP	81
1	9N6222 CRANKSHAFT GROUP	84
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1	9N5590 PULLEY AND DAMPER GROUP	87
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1	9N729	ENGINE OIL COOLER GROUP	118
1	9N733	WATER LINES GROUP	119
1	9N3654	WATER PUMP GROUP	125

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1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
1	3N2915	AIR CLEANER ADAPTER GROUP	142

FUEL SYSTEM AND GOVERNOR

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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
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1W353 ENGINE ARRANGEMENT—Part 2—For Towmotor Corporation
123 brake kW (165 bhp) Engine with Rear Sump Oil Pan, L.H. Mounted PCV Valve
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ARRANGEMENT NUMBER AND SERIAL NUMBER

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1	9N6222 CRANKSHAFT GROUP	84
8	1N3563 CONNECTING ROD AND PISTON GROUP	89
1	9N542 CRANKSHAFT SEAL GROUP	85
<u>UPPER STRUCTURE</u>		
1	9N730 VALVE MECHANISM COVER GROUP	93
1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
<u>FRONT STRUCTURE</u>		
1	9N560 FRONT HOUSING COVER GROUP	97
1	9N5590 PULLEY AND DAMPER GROUP	87
1	9N5211 FRONT HOUSING GROUP	96
1	1N3438 ENGINE SUPPORT GROUP	97
<u>REAR STRUCTURE</u>		
	8N6368 FLYWHEEL HOUSING COVER GROUP	105
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<u>LOWER STRUCTURE</u>		
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 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
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1	1W2206 OIL PUMP GROUP	113
<u>COOLING SYSTEM</u>		
1	9N521 ENGINE OIL COOLER GROUP	117
1	6N465 WATER LINES GROUP	121
1	9N6501 WATER PUMP GROUP	126
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1	7N5198 EXHAUST MANIFOLD GROUP	138
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1	9N735 POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
<u>FUEL SYSTEM AND GOVERNOR</u>		
1	9L6743 GOVERNOR CONTROL GROUP	178
1	9N6124 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
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1	4N5868 FUEL FILTER GROUP	188

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1W354 ENGINE ARRANGEMENT—Part 2—For White Farm Equipment Company
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

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8	1N3563 CONNECTING ROD AND PISTON GROUP	89
1	9N542 CRANKSHAFT SEAL GROUP	85
<u>UPPER STRUCTURE</u>		
1	9N730 VALVE MECHANISM COVER GROUP	93
1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
<u>FRONT STRUCTURE</u>		
1	9N560 FRONT HOUSING COVER GROUP	97
1	9N5590 PULLEY AND DAMPER GROUP	87
1	9N5211 FRONT HOUSING GROUP	96
1	1N3438 ENGINE SUPPORT GROUP	97
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<u>REAR STRUCTURE</u>		
1	9L7861 FLYWHEEL HOUSING COVER GROUP	105
1	9N529 FLYWHEEL HOUSING GROUP	103
1	4N4854 FLYWHEEL GROUP	99
<u>LOWER STRUCTURE</u>		
1	9N565 OIL PAN GROUP	107

1W355 ENGINE ARRANGEMENT—Part 1—For White Farm Equipment Company
 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
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1	1W2206	OIL PUMP GROUP	113

COOLING SYSTEM

1	9N521	ENGINE OIL COOLER GROUP	117
1	7N7844	WATER LINES GROUP	122
1	9N3654	WATER PUMP GROUP	125
1	7N7613	WATER PUMP DRIVE GROUP	124

INTAKE AND EXHAUST SYSTEM

1	7N5198	EXHAUST MANIFOLD GROUP	138
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
1	3N2915	AIR CLEANER ADAPTER GROUP	142

FUEL SYSTEM AND GOVERNOR

1	9L6743	GOVERNOR CONTROL GROUP	178
1	9N6124	GOVERNOR AND FUEL PUMP DRIVE GROUP	145
1	9L6925	FUEL SYSTEM FASTENER GROUP	191
1	6N2266	FUEL FILTER GROUP	188
1	9L6379	FUEL FILTER LINES GROUP	183
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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

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8	1N3563 CONNECTING ROD AND PISTON GROUP	89
1	9N542 CRANKSHAFT SEAL GROUP	85
<u>UPPER STRUCTURE</u>		
1	9N730 VALVE MECHANISM COVER GROUP	93
1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
<u>FRONT STRUCTURE</u>		
1	9N560 FRONT HOUSING COVER GROUP	97
1	9N5590 PULLEY AND DAMPER GROUP	87
1	9N5211 FRONT HOUSING GROUP	96
1	1N3438 ENGINE SUPPORT GROUP	97
<u>REAR STRUCTURE</u>		
1	9L7861 FLYWHEEL HOUSING COVER GROUP	105
1	9N529 FLYWHEEL HOUSING GROUP	103
1	8N8037 FLYWHEEL GROUP	101
<u>LOWER STRUCTURE</u>		
1	9N565 OIL PAN GROUP	107

1W357 ENGINE ARRANGEMENT—Part 1—For White Farm Equipment Company
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 and Sae No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE
 ARRANGEMENT NUMBER AND SERIAL NUMBER

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1	1W2206	OIL PUMP GROUP	113

COOLING SYSTEM

1	9N521	ENGINE OIL COOLER GROUP	117
1	6N465	WATER LINES GROUP	121
1	9N6501	WATER PUMP GROUP	126

INTAKE AND EXHAUST SYSTEM

1	7N5198	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	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

1W357 ENGINE ARRANGEMENT—Part 2—For White Farm Equipment Compar
130.5 brake kW (175 bhp) Engine with Rear Sump Oil Pan, R.H. Mounted PCV Val
and SAE No. 2 Flywheel Housing. NOTE: WHEN ORDERING PARTS GIVE
ARRANGEMENT NUMBER AND SERIAL NUMBER

CONSISTS OF:		PAGE
<u>CENTRAL STRUCTURE</u>		
1	9N3761 CYLINDER BLOCK GROUP	80
1	9N728 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
1	9L6560 CYLINDER BLOCK PANEL GROUP	82
<u>UPPER STRUCTURE</u>		
1	9L6978 VALVE MECHANISM COVER GROUP	93
1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
<u>FRONT STRUCTURE</u>		
1	9N560 FRONT HOUSING COVER GROUP	97
1	9N5590 PULLEY AND DAMPER GROUP	87
1	9N5211 FRONT HOUSING GROUP	96
1	1N3438 ENGINE SUPPORT GROUP	97
<u>REAR STRUCTURE</u>		
1	4N5866 FLYWHEEL HOUSING COVER GROUP	104
1	4N5870 FLYWHEEL HOUSING GROUP	104
1	9N399 CRANKSHAFT COVER GROUP	85
<u>LOWER STRUCTURE</u>		
1	9N565 OIL PAN GROUP	107

1W1167 ENGINE ARRANGEMENT—Part 1—For Towmotor Corporation
 102.2 brake kW (137 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
<u>LUBRICATION SYSTEM</u>		
1	9N142 OIL LEVEL GAUGE GROUP	112
1	1W2638 OIL FILTER GROUP	115
1	9N6632 ENGINE OIL LINES GROUP	116
1	1W2206 OIL PUMP GROUP	113
<u>COOLING SYSTEM</u>		
1	9N729 ENGINE OIL COOLER GROUP	118
1	9N733 WATER LINES GROUP	119
1	9N3654 WATER PUMP GROUP	125
<u>INTAKE AND EXHAUST SYSTEM</u>		
1	4N5875 EXHAUST MANIFOLD GROUP	137
1	9N555 INLET MANIFOLD GROUP	140
1	9N735 POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
1	4N5867 EXHAUST ELBOW GROUP	141
<u>FUEL SYSTEM AND GOVERNOR</u>		
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	8N1037 GOVERNOR & FUEL INJECTION PUMP GROUP ...	151

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W1167 ENGINE ARRANGEMENT—Part 2—For Towmotor Corporation
102.2 brake kW (137 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
<u>CENTRAL STRUCTURE</u>		
1	9N3761 CYLINDER BLOCK GROUP	80
1	9N728 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
1	9L6560 CYLINDER BLOCK PANEL GROUP	82
<u>UPPER STRUCTURE</u>		
1	9L6978 VALVE MECHANISM COVER GROUP	93
1	9N1105 CYLINDER HEAD GROUP	90
2	9N191 LIFTING GROUP	94
1	9N487 VALVE MECHANISM GROUP	92
<u>FRONT STRUCTURE</u>		
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
<u>REAR STRUCTURE</u>		
1	4N5866 FLYWHEEL HOUSING COVER GROUP	104
1	4N5870 FLYWHEEL HOUSING GROUP	104
1	9N399 CRANKSHAFT COVER GROUP	85
<u>LOWER STRUCTURE</u>		
1	9N565 OIL PAN GROUP	107

1W1607 ENGINE ARRANGEMENT—Part 1—For Towmotor Corporation
 92.5 brake kW (124 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	9N142	OIL LEVEL GAUGE GROUP	112
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

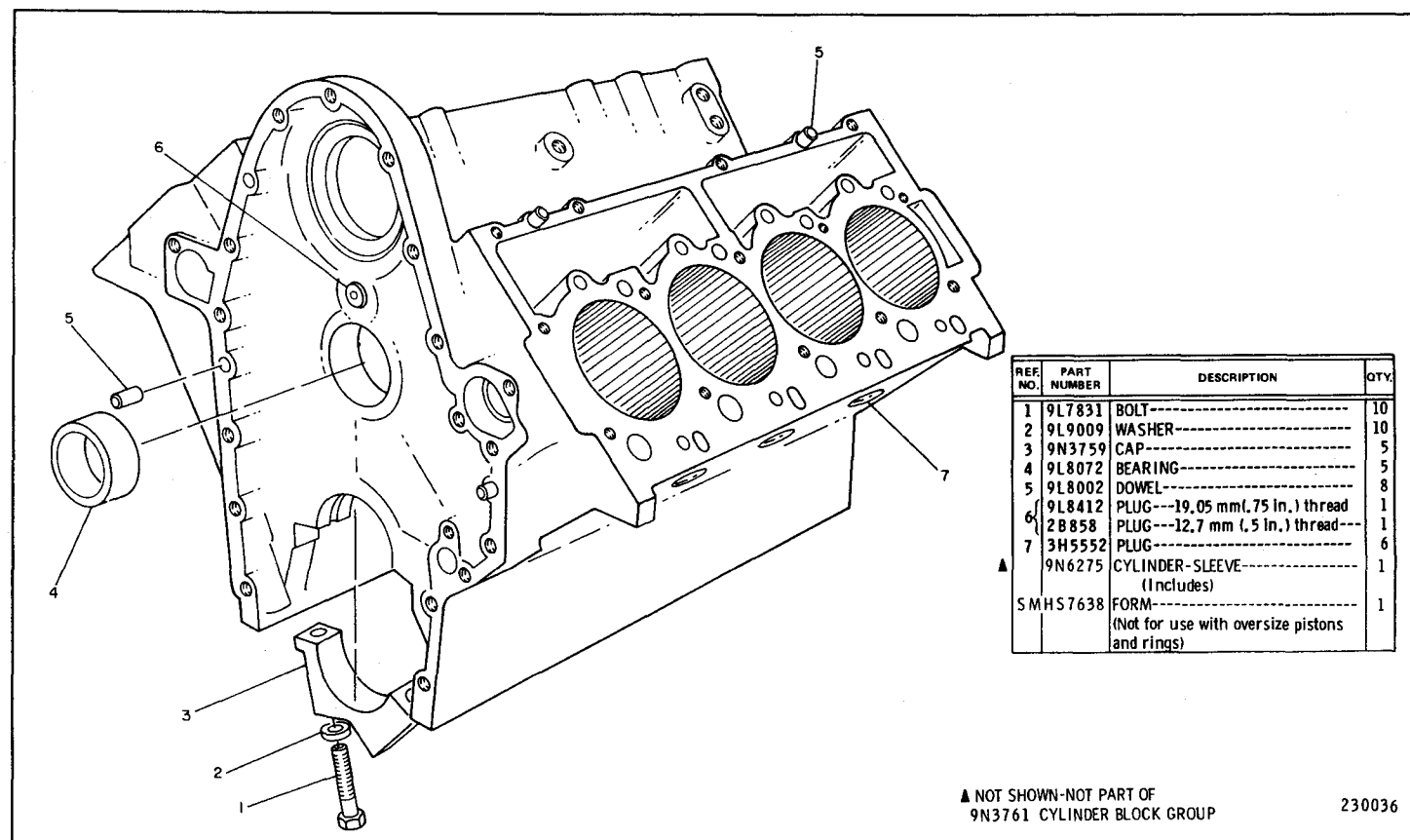
1	4N5875	EXHAUST MANIFOLD GROUP	137
1	9N555	INLET MANIFOLD GROUP	140
1	9N735	POSITIVE CRANKCASE VENTILATION VALVE GROUP	144
1	4N5867	EXHAUST ELBOW GROUP	141

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	8N1037	GOVERNOR & FUEL INJECTION PUMP GROUP ...	151

NOTE: REFER TO INDEX FOR PAGE LOCATION OF GASKET KITS

1W1607 ENGINE ARRANGEMENT—Part 2—For Towmotor Corporation
92.5 brake kW (124 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



230036

9N3761 CYLINDER BLOCK GROUP

Also part of 9N3763 Cylinder Block Service Group and 9N5190 & 9N5669 Short Block Groups shown on
Pages 81 & 84A

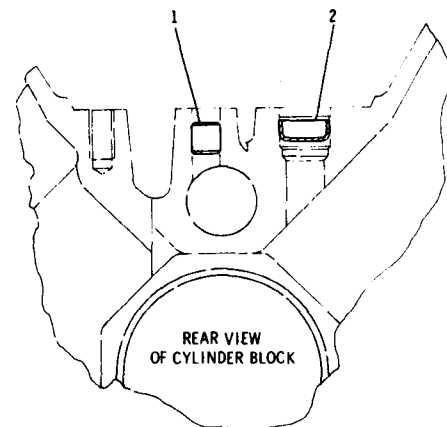
CONSISTS OF:

PAGE

1	9N3761	CYLINDER BLOCK GROUP	80
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N5291	BEARING--FRONT MAIN	
1		FORM SMHS7258	

9N3763 CYLINDER BLOCK SERVICE GROUP

Provides Replacement for 9N3761 Cylinder Block Group shown on Page 80

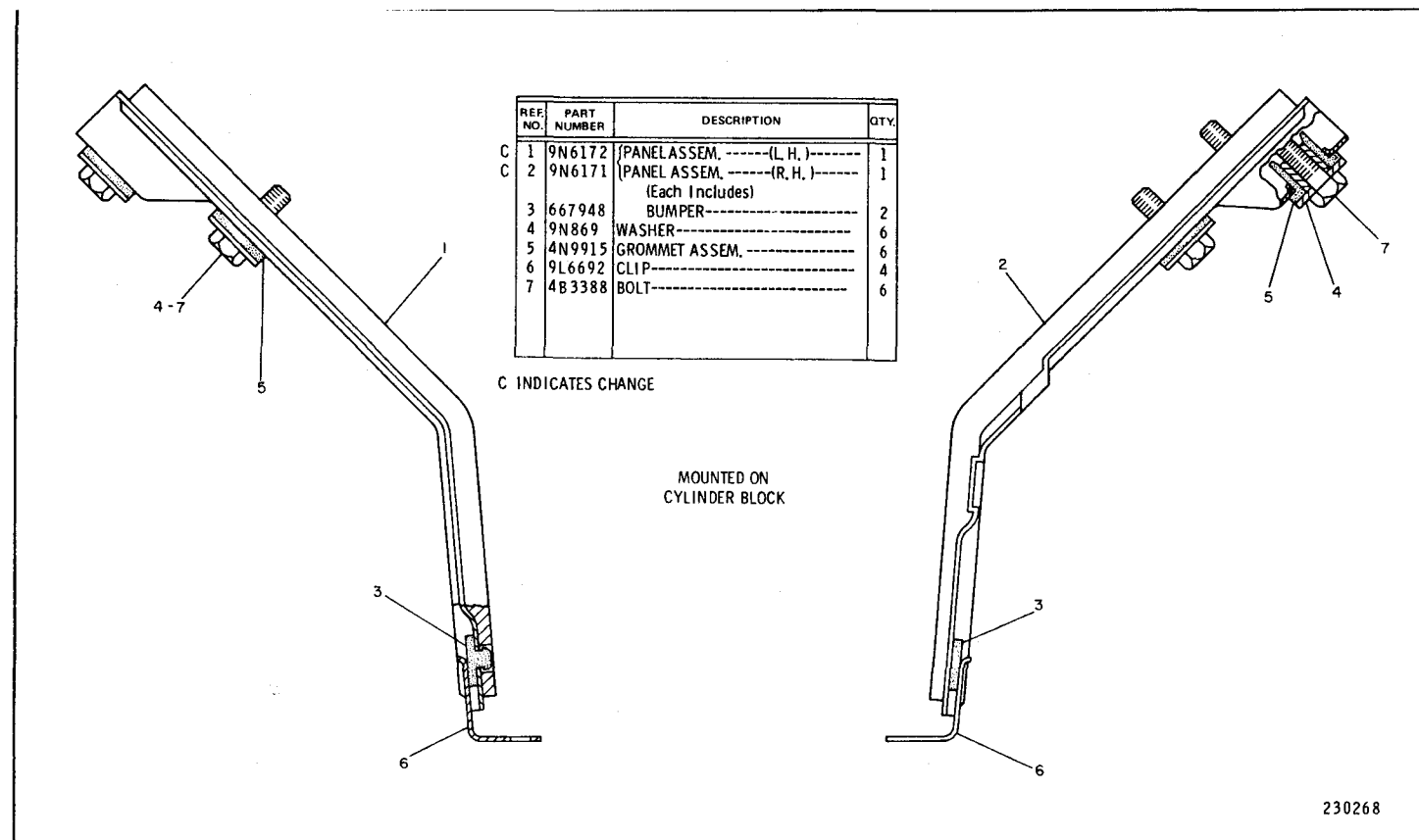


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	9N575	DOWEL-----	1
2	5B1866	PLUG-----	1

203351

9L6065 CYLINDER BLOCK COVER GROUP

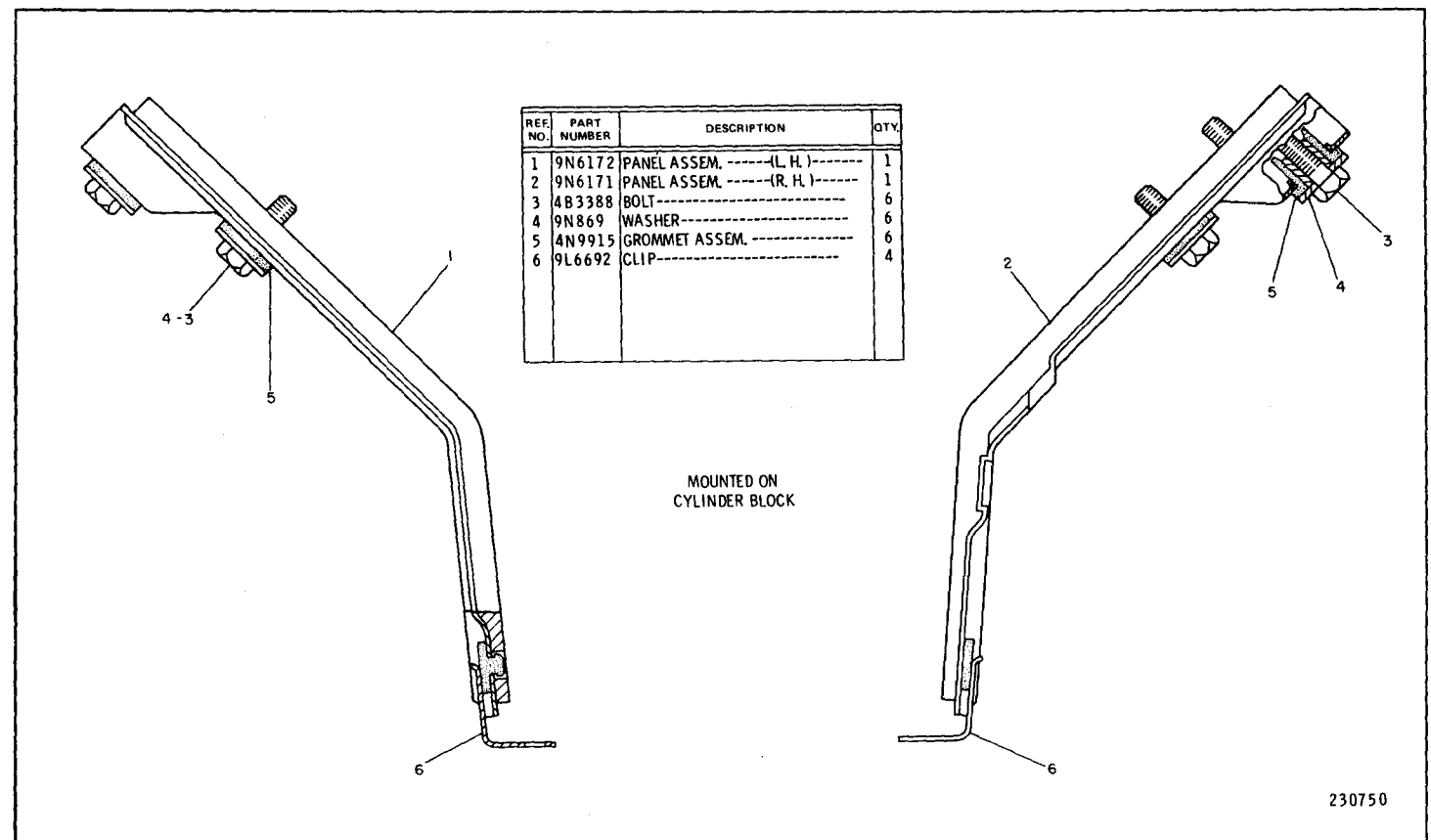
Also part of 9N3763 Cylinder Block Service Group and 9N5190 & 9N5669 Short

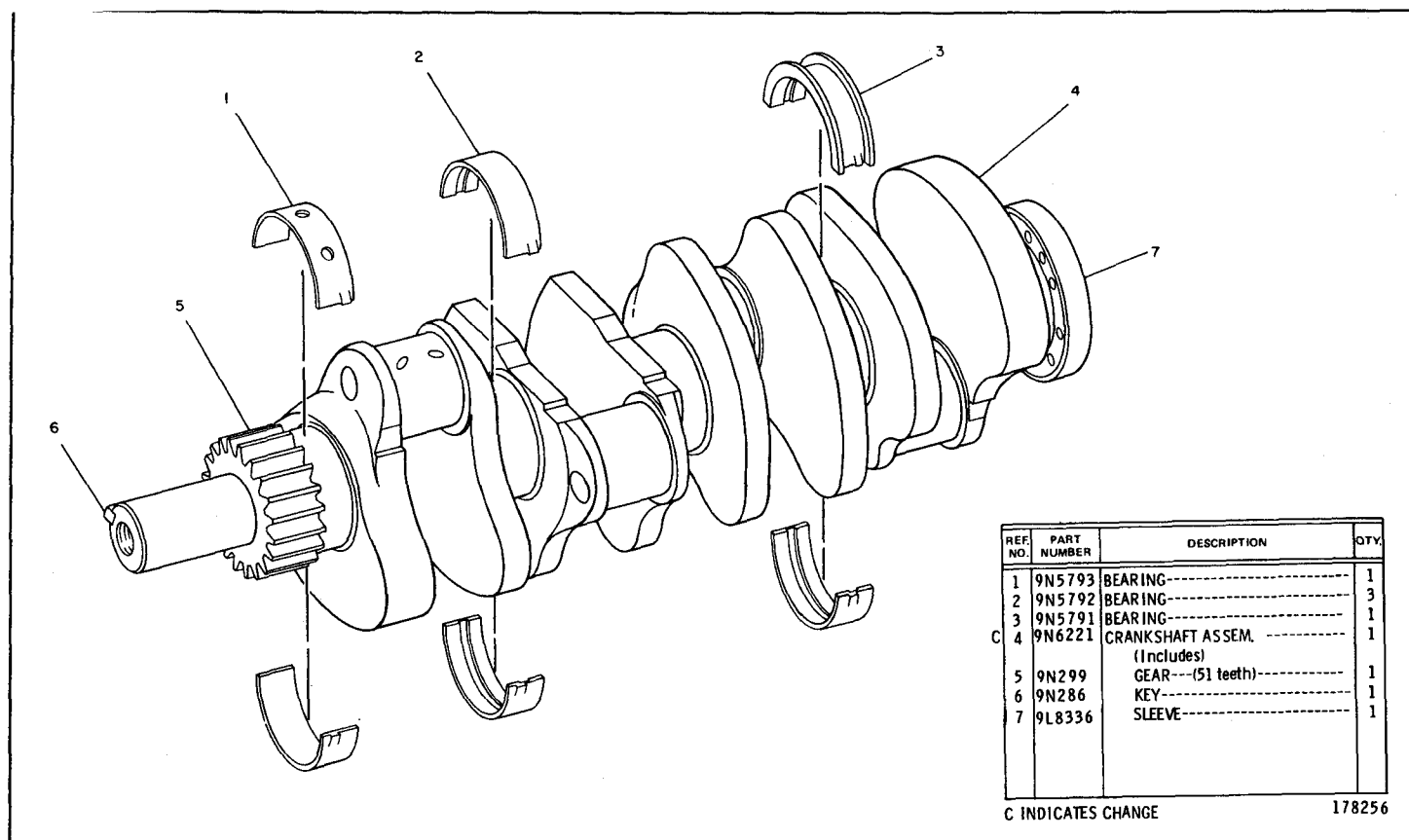


230268

9L6560 CYLINDER BLOCK PANEL GROUP—Sound Suppression
For Field Replacement order 9N6434 shown on Page 83

9N6434 CYLINDER BLOCK PANEL GROUP—Sound Suppression
Also provides Field Replacement for 9L6560 shown on Page 27
AN ATTACHMENT





9N6222 CRANKSHAFT GROUP

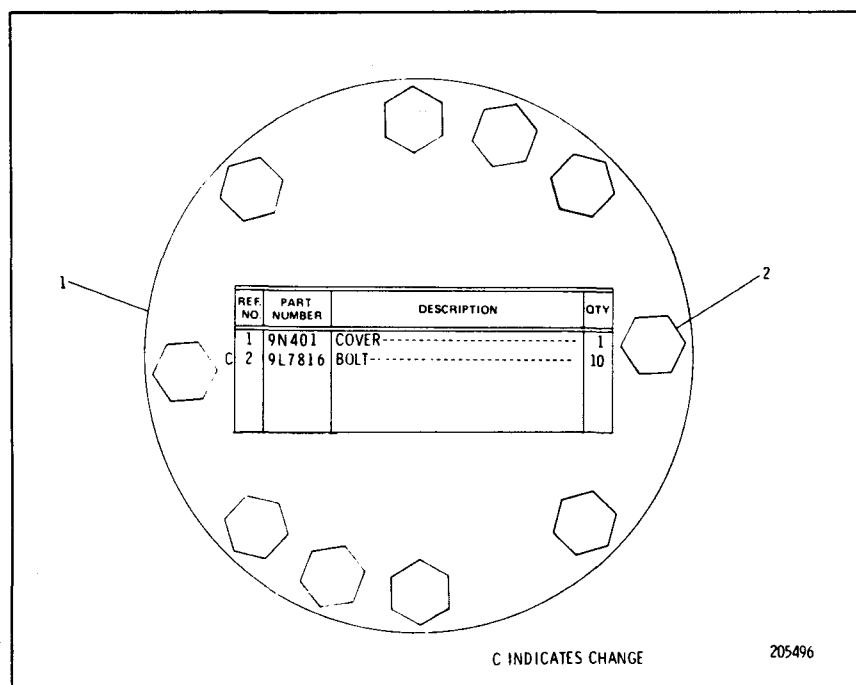
Also part of 9N5190 and 9N5669 Short Block Groups listed on Page 84A

CONSISTS OF:			PAGE
1	9N3761	CYLINDER BLOCK GROUP	80
1	9N6222	CRANKSHAFT GROUP	84
1	9L6065	CYLINDER BLOCK COVER GROUP	81
8	9N3538	CONNECTING ROD AND PISTON GROUP	88
2	9L7816	FLYWHEEL BOLT---.438 IN. x 1.69 IN.	
1		FORM SMHS7258	

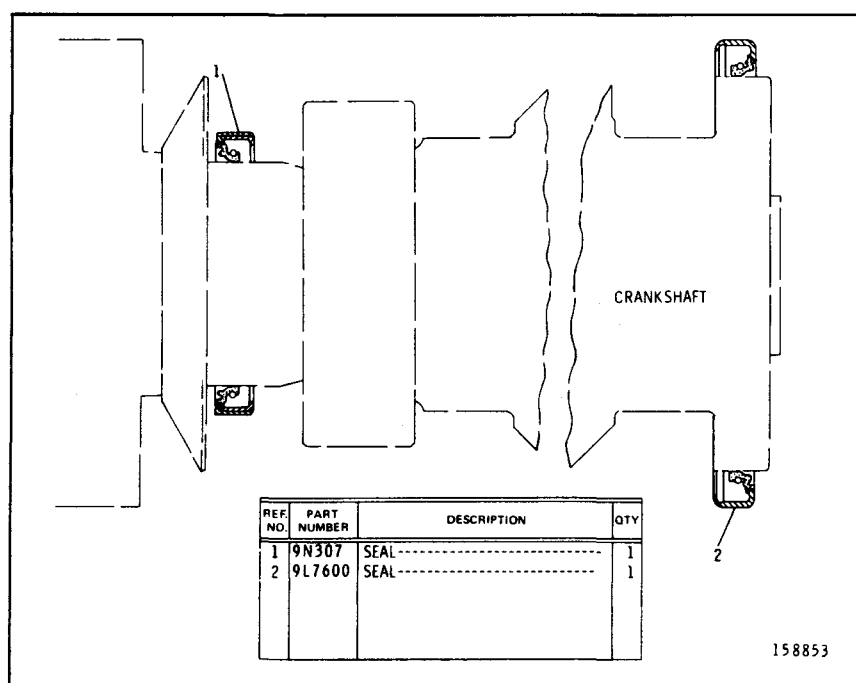
9N5190 SHORT BLOCK GROUP—Field Installation
For Engines rated at more than 130.5 brake kW (175 bhp)

CONSISTS OF:			PAGE
1	9L6065	CYLINDER BLOCK COVER GROUP	81
1	9N6222	CRANKSHAFT GROUP	84
1	9N3761	CYLINDER BLOCK GROUP	80
8	1W2200	CONNECTING ROD AND PISTON GROUP	89
2	9L7816	FLYWHEEL BOLT	
1		FORM SMHS7258	

9N5669 SHORT BLOCK GROUP—Field Installation
For Engines rated at 130.5 brake kW (175 bhp) or less



9N399 CRANKSHAFT COVER GROUP

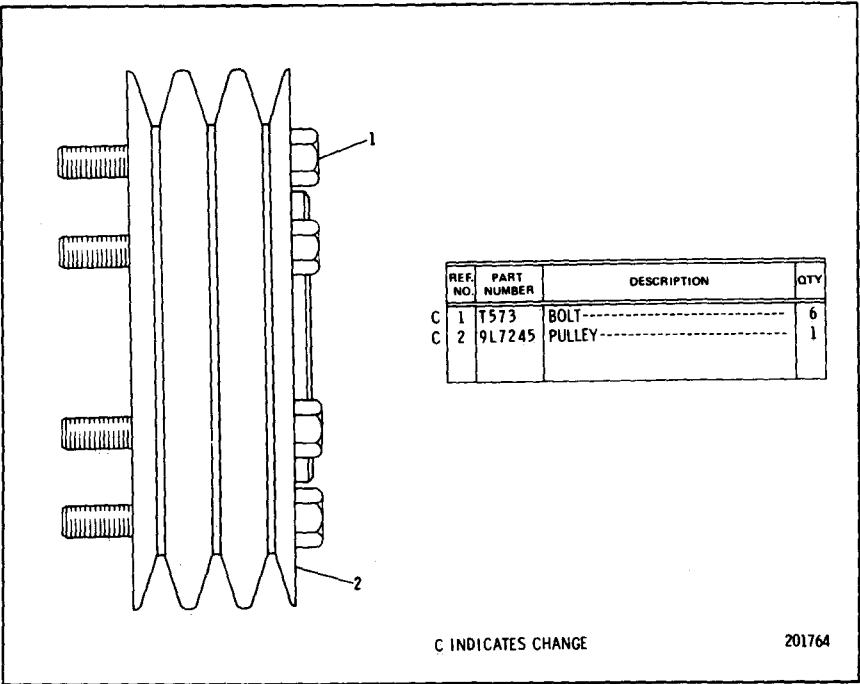


9N542 CRANKSHAFT SEAL GROUP

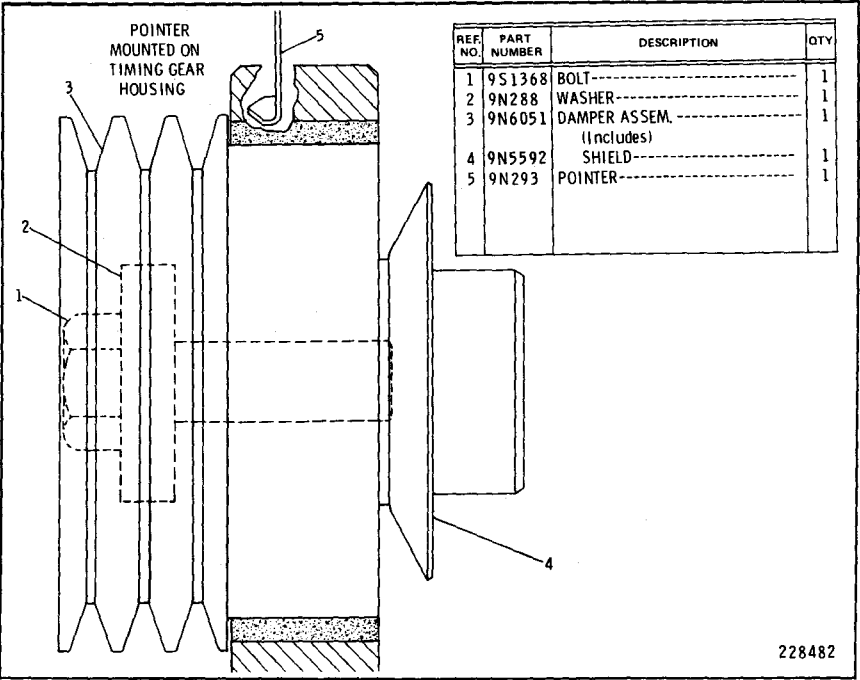
CONSISTS OF:

1	8N8976	BEARING--MAIN FRONT (0.25 MM UNDERSIZE)-- NON-GROOVED
3	8N9022	BEARING--MAIN INTERMEDIATE (0.25 MM UNDERSIZE)-- GROOVED
1	8N9065	BEARING--MAIN THRUST (0.25 MM UNDERSIZE)-- GROOVED
1	8N8972	BEARING--MAIN FRONT (0.51 MM UNDERSIZE)-- NON-GROOVED
3	8N9023	BEARING--MAIN INTERMEDIATE (0.51 MM UNDERSIZE)-- GROOVED
1	8N9064	BEARING--MAIN THRUST (0.51 MM UNDERSIZE)-- GROOVED
1	8N8974	BEARING--MAIN FRONT (0.51 MM UNDERSIZE)-- NON-GROOVED
3	8N9020	BEARING--MAIN INTERMEDIATE (1.27 MM UNDERSIZE)-- GROOVED
1	8N9066	BEARING--MAIN THRUST (1.27 MM UNDERSIZE)-- GROOVED
1	8N8973	BEARING--MAIN FRONT (0.25 MM OVERSIZE)-- NON-GROOVED
3	8N9021	BEARING--MAIN INTERMEDIATE (0.25 MM OVERSIZE)-- GROOVED
1	8N9067	BEARING--MAIN THRUST (0.25 MM OVERSIZE)-- GROOVED
1	8N8971	BEARING--MAIN FRONT (0.25 MM OVERSIZE AND 0.51 MM UNDERSIZE)--NON-GROOVED
3	8N9019	BEARING--MAIN INTERMEDIATE (0.25 MM OVERSIZE AND 0.51 MM UNDERSIZE)--GROOVED
1	8N9068	BEARING--MAIN THRUST (0.25 MM OVERSIZE AND 0.51 MM UNDERSIZE)--GROOVED
1	8N8975	BEARING--MAIN FRONT (0.25 MM OVERSIZE AND 1.27 MM UNDERSIZE)--NON-GROOVED
3	8N9018	BEARING--MAIN INTERMEDIATE (0.25 MM OVERSIZE AND .050 MM UNDERSIZE)--GROOVED
1	8N9069	BEARING--MAIN THRUST (0.25 MM OVERSIZE AND 1.27 MM UNDERSIZE)--GROOVED

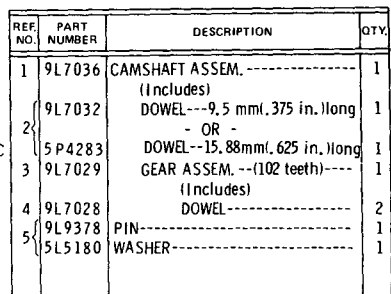
CRANKSHAFT BEARING REPLACEMENTS



9L7461 CRANKSHAFT PULLEY GROUP
CANNOT BE USED WITH 4N7393 RADIATOR GROUP SHOWN ON PAGE 135
AN ATTACHMENT

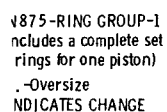


9N5590 PULLEY & DAMPER GROUP



227147

9N728 CAMSHAFT GROUP

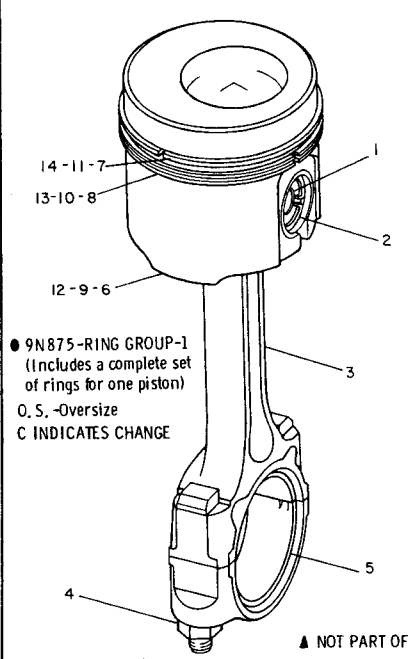


REF NO	PART NUMBER	DESCRIPTION	QTY.
1	7N9803	PIN-----	1
2	8N8064	RETAINER-----	2
3	9N3504	ROD ASSEM. (Includes)	1
4	8N701	BEARING-----	2
5	9N3832	BOLT-----	1
6	9L7669	NUT-----	2
7	9N5790	BEARING---(standard)---	1
8	9N5920	BEARING-----	1
9	9N5921	.25 mm(.010 in.) undersize BEARING-----	1
10	9N5922	.51 mm(.020 in.) undersize BEARING-----	1
11	9N5409	1.27 mm(.050 in.) undersize PISTON GROUP---(standard)---	1
12	9L6233	(Includes) RING---(standard - compression)---	1
13	9L9316	RING---(standard - oil)---	1
14	9N5408	PISTON GROUP-.508mm(.02in.)O.S. (Includes)	1
15	9L9673	RING----- (oversize - oil) ---	1
16	9N581	RING---(oversize-compression)---	1
17	9N5410	PISTON GROUP-1.016mm(.04in.)O.S. (Includes)	1
18	9L9323	RING---(oversize - oil)-----	1
19	9N578	RING---(oversize-compression)---	1

227577

9N3538 CONNECTING ROD & PISTON GROUP

Also part of 9N5190 Short Block Group listed on Page 94A



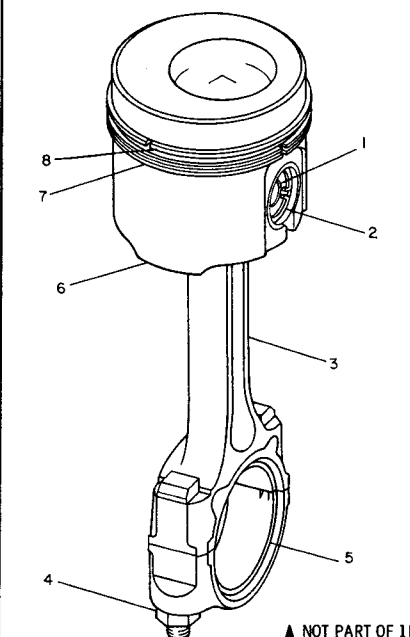
14-11-7
13-10-8
12-9-6
● 9N875-RING GROUP-1
(Includes a complete set
of rings for one piston)
O, S, -Oversize
C INDICATES CHANGE

REF. NO.	PART NUMBER	DESCRIPTION	QTY.	
1	7N9803	PIN-----	1	
2	8N7294	RETAINER-----	2	
3	9N3504	ROD ASSEM.-----	1	
		(Includes)		
4	8N701	BEARING-----	1	
	9N3832	BOLT-----	2	
	9L7669	NUT-----	2	
▲	9N5790	BEARING---(standard)-----	1	
	9N5920	BEARING-----	1	
		.25 mm(.010 in.) undersize		
▲	9N5921	BEARING-----	1	
		.51 mm(.020 in.) undersize		
▲	9N5922	BEARING-----	1	
		1.27 mm(.050 in.) undersize		
C	6	9N5632	PISTON GROUP---(standard)-----	1
		(Includes)		
7	9L6233	RING---(standard - compression)	1	
8	9L9316	RING---(standard - oil)-----	1	
▲	9	1W2065	PISTON GROUP--508mm(.02in.)O.S.	1
		(Includes)		
10	9L9673	RING---(oversize - oil)---	1	
11	9N581	RING---(oversize-compression)	1	
▲	12	1W2067	PISTON GROUP-1.016mm(.04in.)O.S.	1
		(Includes)		
13	9L9323	RING---(oversize - oil)-----	1	
14	9N578	RING---(oversize-compression)	1	

▲ NOT PART OF 1W2200 CONNECTING ROD & PISTON GROUP 23084

1W2200 CONNECTING ROD & PISTON GROUP

Also part of 9N5669 Short Block Group listed on Page 84A
1N3563 CONNECTING ROD & PISTON GROUP

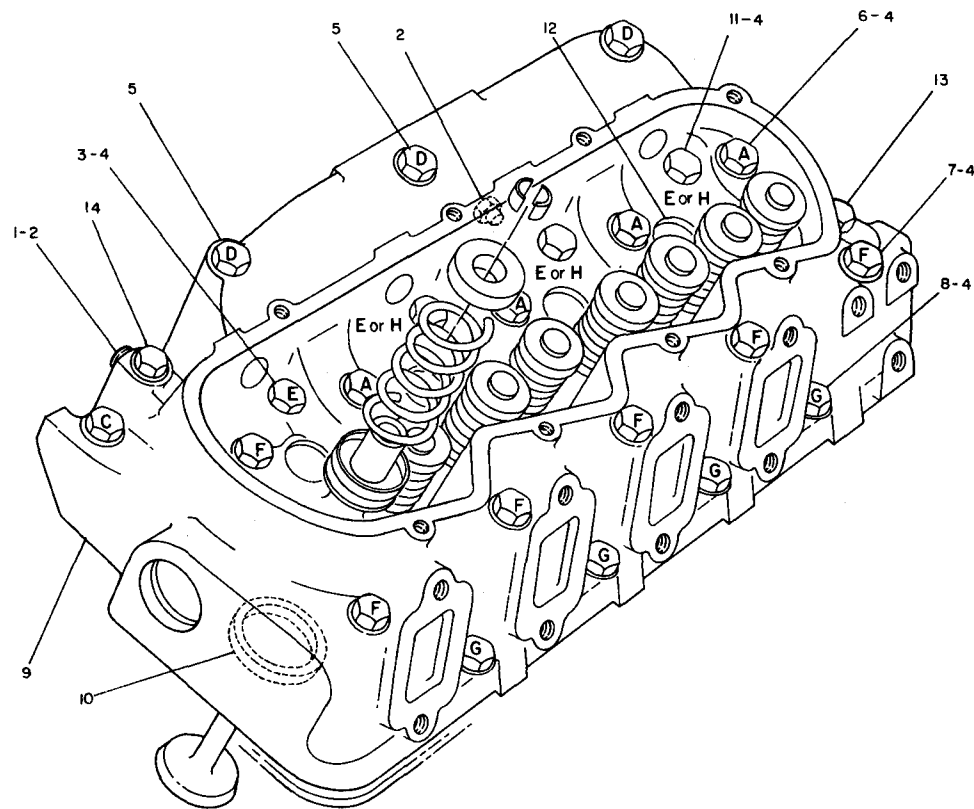


8
7
6
4

REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	7N9803	PIN-----	1
2	8N8064	RETAINER-----	2
3	9N3504	ROD ASSEM.-----	1
		(Includes)	
4	8N701	BEARING-----	1
	9N3832	BOLT-----	2
	9L7669	NUT-----	2
▲	9N5790	BEARING---(standard)-----	1
	9N5920	BEARING-----	1
		.25 mm(.010 in.) undersize	
▲	9N5921	BEARING-----	1
		.51 mm(.020 in.) undersize	
▲	9N5922	BEARING-----	1
		1.27 mm (.050 in.) undersize	
6	1N3227	BODY ASSEM.-----	1
7	9L9316	RING----- (oil)-----	1
8	9L6233	RING----- (top)-----	1
▲	9N875	RING GROUP-----	1
		(Includes a complete set of rings for one piston.)	

▲ NOT PART OF 1N3563 CONNECTING ROD & PISTON GROUP 174817

1N3563 CONNECTING ROD & PISTON GROUP

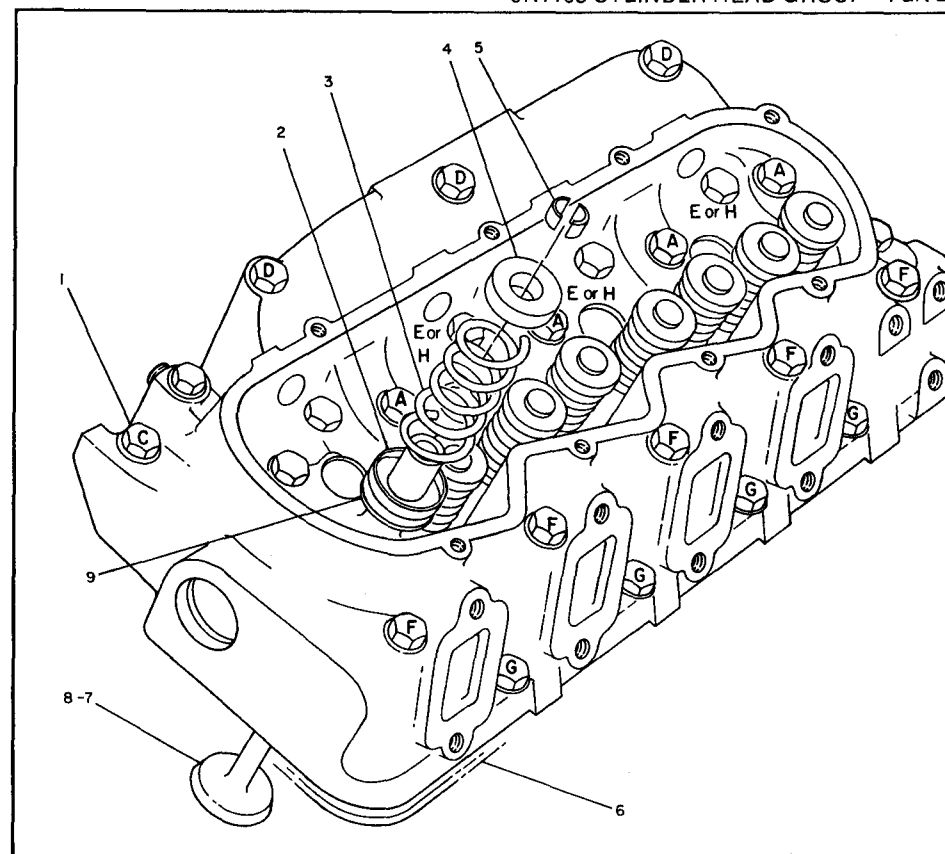


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	7H3171	PLUG-----	1
2	5M6213	PLUG-----	3
3	L1329	BOLT--7.62 cm(3 in.)long-- (Location 'E')	8
4	3H7654	WASHER-----	36
5	5B9603	BOLT--12.7 cm(5 in.)long-- (Location 'D')	6
6	6F5282	BOLT--13.3 cm(5.25 in.)long-- (Location 'A')	8
7	2B2006	BOLT--12 cm(4.75 in.)long-- (Location 'F')	12
8	2B947	BOLT--5.71 cm(2.25 in.)long-- (Location 'G')	8
9	9N3111	HEAD ASSEM.----- (Each Includes)	2
	9L7657	PLUG-----	1
10	9N2837	INSERT--(exhaust)-----	4
11	L1329	BOLT--7.62 cm(3 in.)long-- (Location 'H')	3
12	8M5860	PLUG-----	4
13	5M6214	PLUG-----	1
14	5M6213	PLUG-----	1

227148

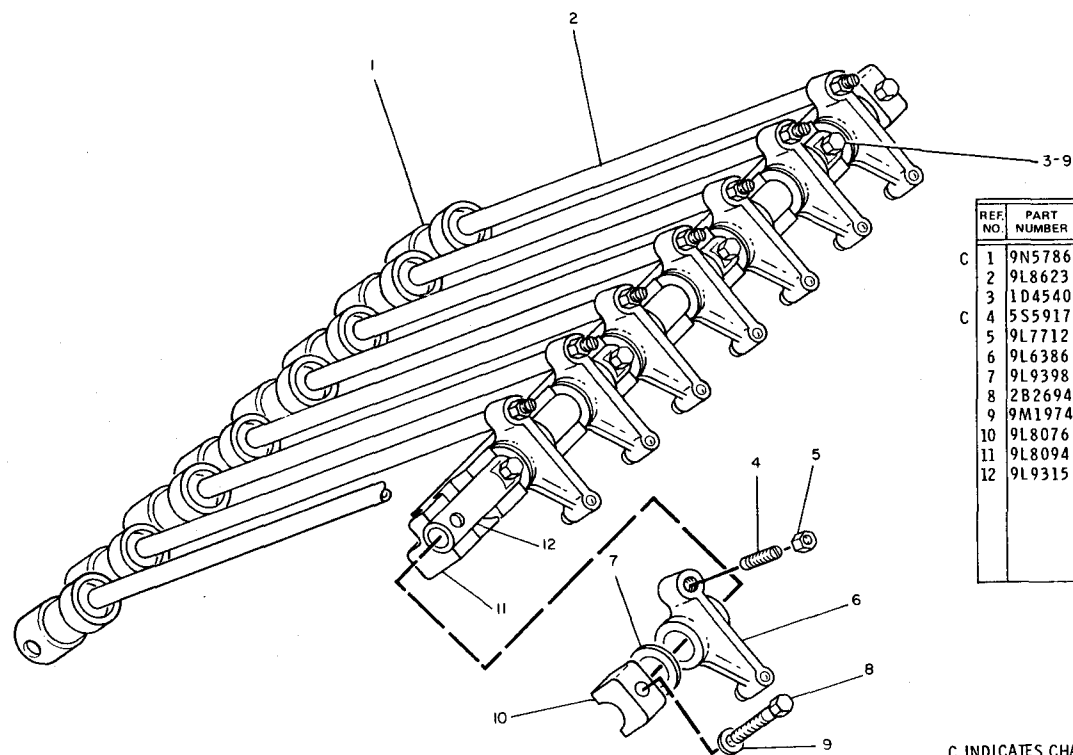
9N1105 CYLINDER HEAD GROUP—Part 1

9N1105 CYLINDER HEAD GROUP—Part 2



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	S1571	BOLT---4.44 cm(1.75 in.)long--- (Location "C" - Left Head)	1
	9L9166	STUDBOLT---9.14 cm(3.6 in.)long--- (Right Head)	1
2	9N906	SPACER-----	16
3	9N3387	SPRING-----	16
4	9L9425	RETAINER-----	16
5	2A4429	LOCK-----	32
6	9L9164	GASKET-----	2
7	9L7683	VALVE----- (exhaust)	8
8	9L7682	VALVE----- (intake)	8
	2N8943	INSERT----- (intake)	8
9	9L8889	WASHER-----	16

▲ NOT PART OF CYLINDER HEAD GROUP

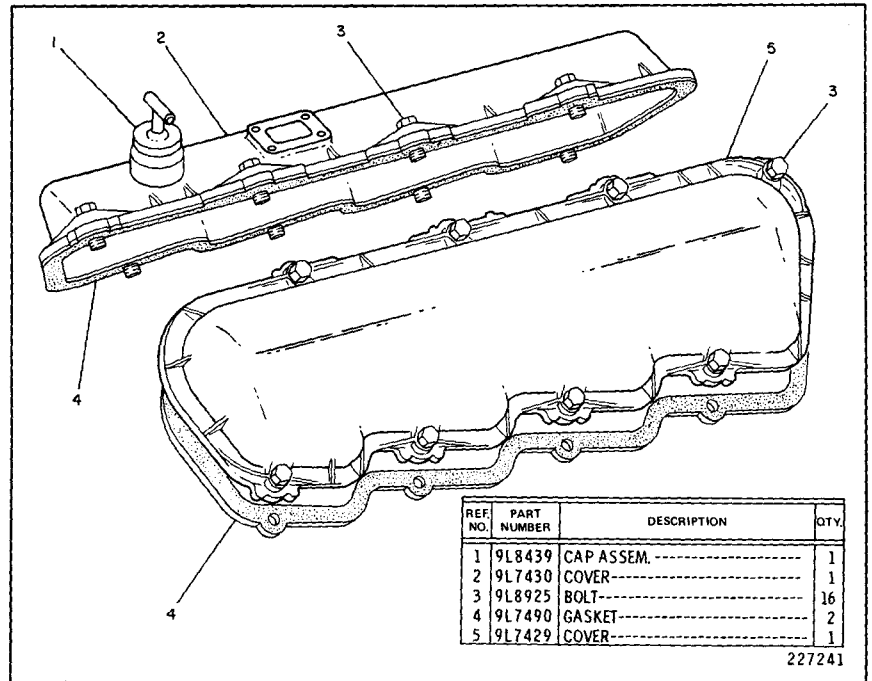


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
C 1	9N5786	LIFTER-----	16
2	9L8623	ROD ASSEM.-----	16
3	1D4540	BOLT-----	8
C 4	5S5917	SCREW-----	16
5	9L7712	NUT-----	16
6	9L6386	ARM ASSEM.-----	16
7	9L9398	WASHER-----	16
8	2B2694	BOLT-----	4
9	9M1974	WASHER-----	12
10	9L8076	WASHER-----	4
11	9L8094	BRACKET-----	2
12	9L9315	SHAFT ASSEM.-----	2

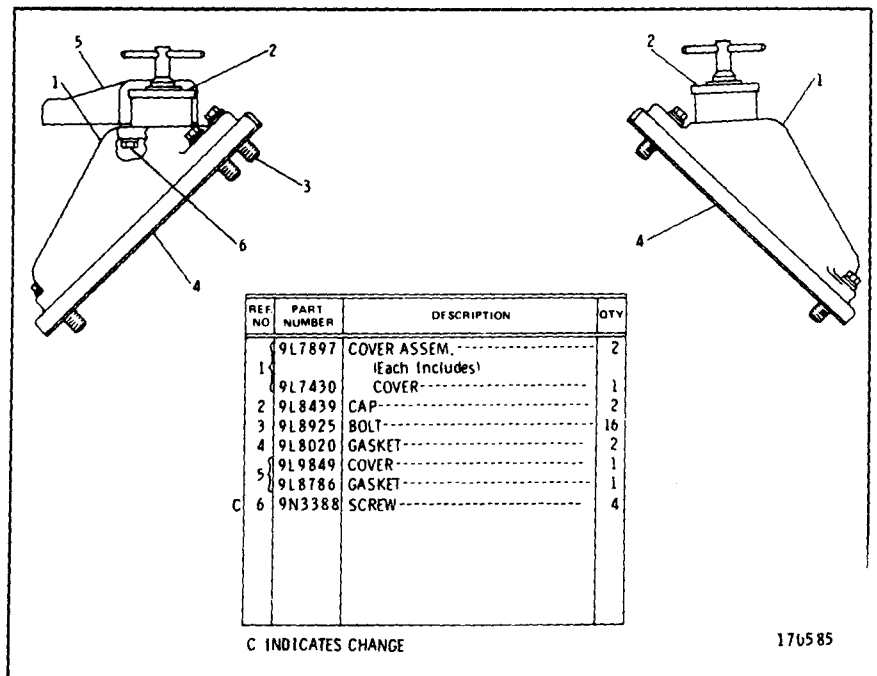
C INDICATES CHANGE

230518

9N487 VALVE MECHANISM GROUP



9N730 VALVE MECHANISM COVER GROUP

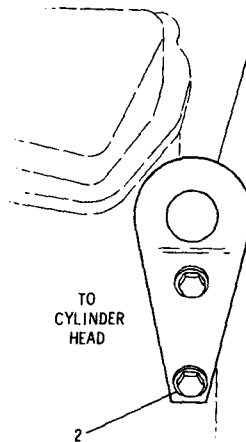


9L6978 VALVE MECHANISM COVER GROUP

CONSISTS OF:

- 1 9L7897 COVER ASSEMBLY--ROCKER ARM R.H.
- 1 9L7898 COVER ASSEMBLY--ROCKER ARM L.H.
- 2 9L7490 GASKET

9N8009 VALVE MECHANISM COVER GROUP—Sound Suppression
FOR USE WITH FRONT SUMP OIL PAN
AN ATTACHMENT

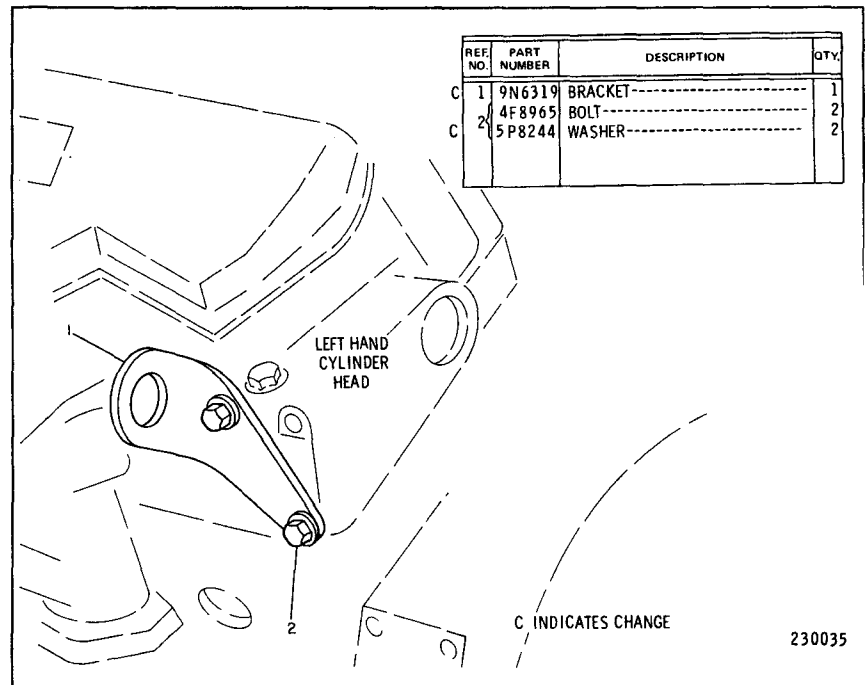


REF. NO.	PART NUMBER	DESCRIPTION	QTY
C 1	9N6473	BRACKET-----	1
C 2	4F8965	BOLT-----	2
C 2	5P8244	WASHER-----	2

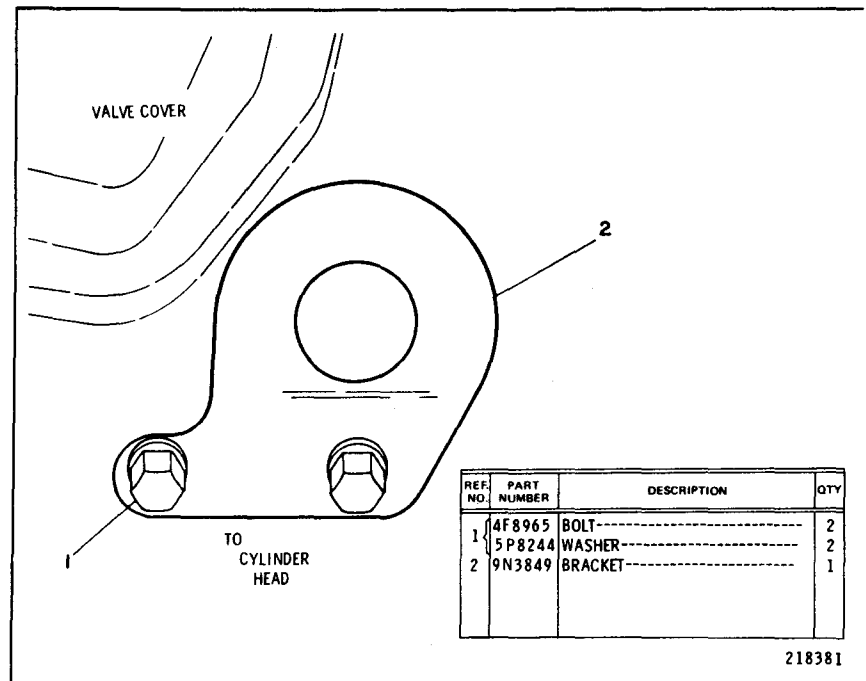
C INDICATES CHANGE

230031

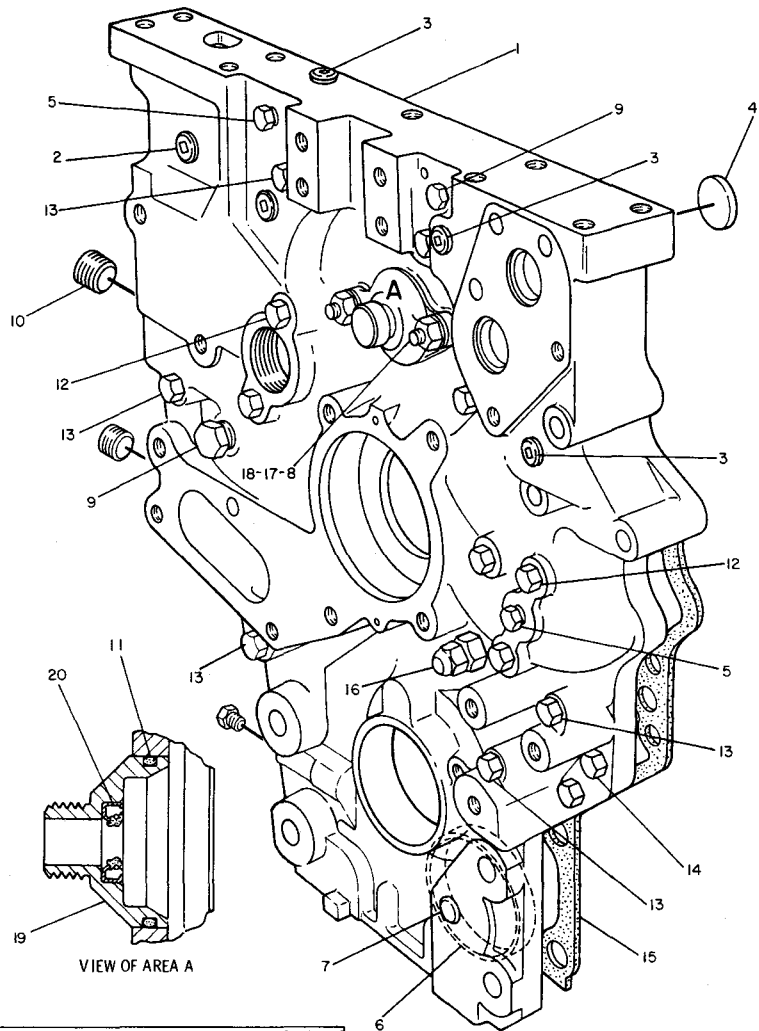
9N191 LIFTING GROUP



9N210 LIFTING GROUP



9N3848 ENGINE LIFTING GROUP
Part of 1W540 Muffler Group listed on Page 142



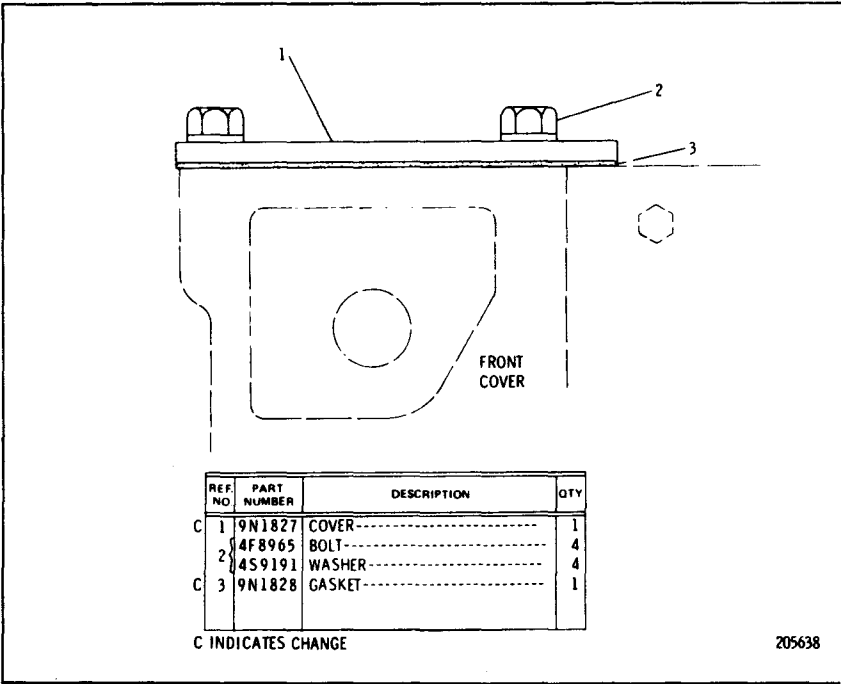
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9N5210	HOUSING ASSEM.----- (Includes)	1
2	1B5174	PLUG-----	3
3	2B858	PLUG-----	3
4	3H5552	PLUG-----	1
5	5M6214	PLUG-----	2
6	9N5461	BEARING-----	1
7	9N5841	SHAFT-----	1
8	1A7462	STUD-----	2
9	3J5390	PLUG-----	3
10	3B551	PLUG-----	1
11	8M5661	SEAL-----	1
▲ 12	4B3903	BOLT---10.16 cm (4 in.) long---	6
13	1D4541	BOLT-----7.6 cm (3 in.) long---	7

14	4B3388	BOLT-----2.85 cm (1.125 in.) long	2
15	9N258	GASKET-----	1
16	9L9412	FITTING-----	1
17	9L9389	CAP-----	1
18	1D4716	NUT-----	3
19	4B4277	WASHER-----	2
20	9L7842	ADAPTER-----	1
	5P547	SEAL-----	1

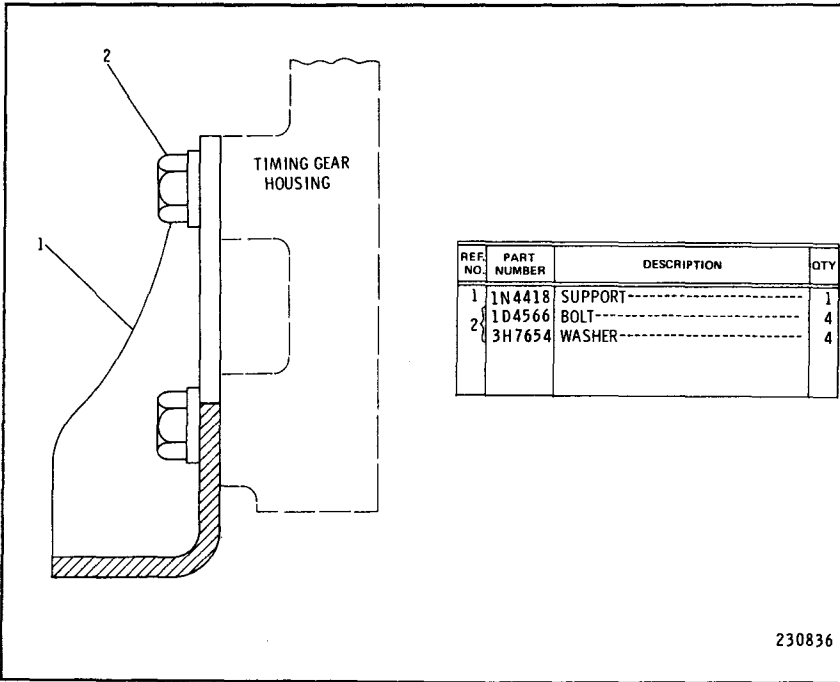
▲ USE AS REQUIRED

228479

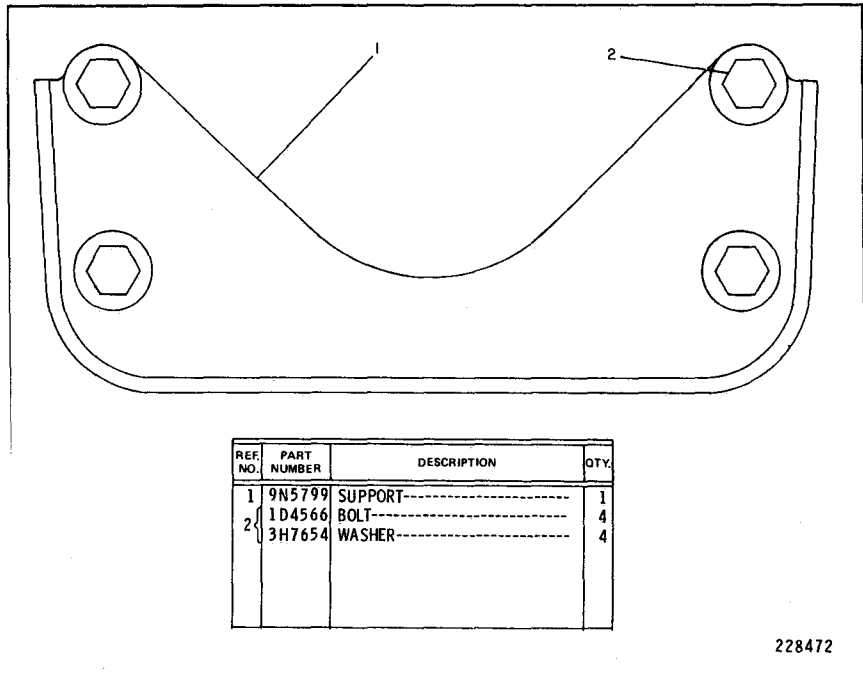
9N5211 FRONT HOUSING GROUP



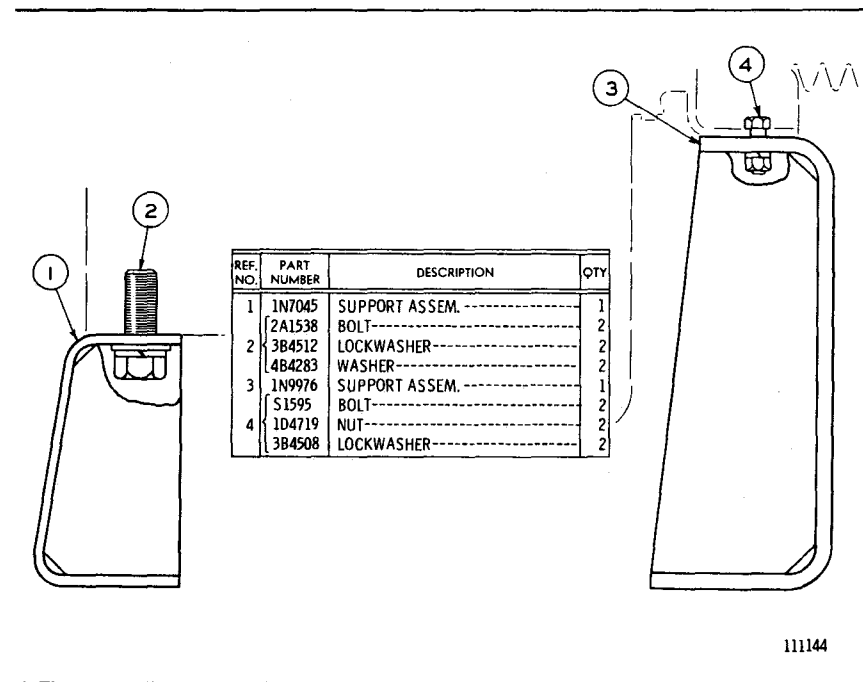
9N560 FRONT HOUSING COVER GROUP
Note: 2N3909 Tachometer Drive Adapter is available



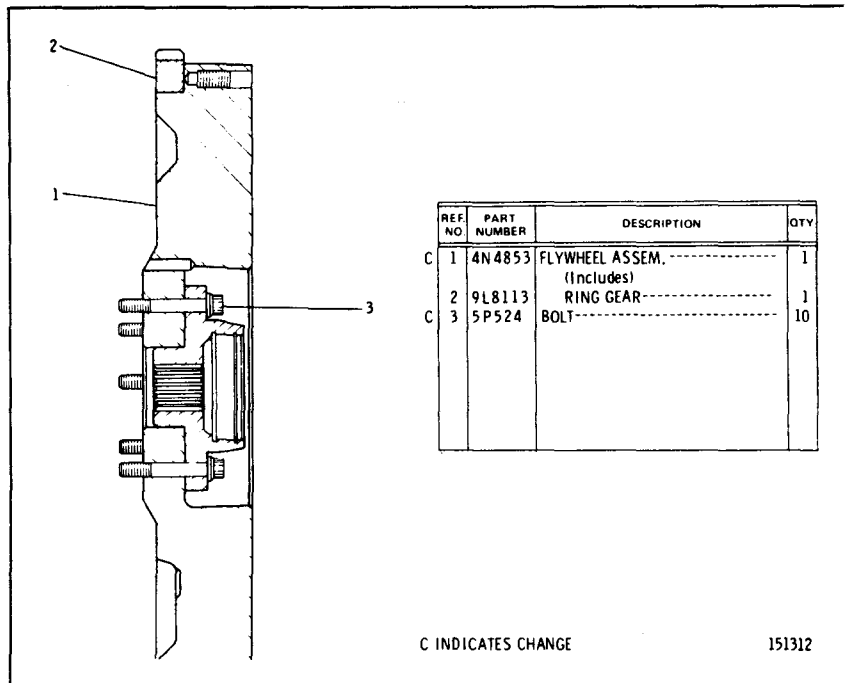
1N3438 SUPPORT GROUP



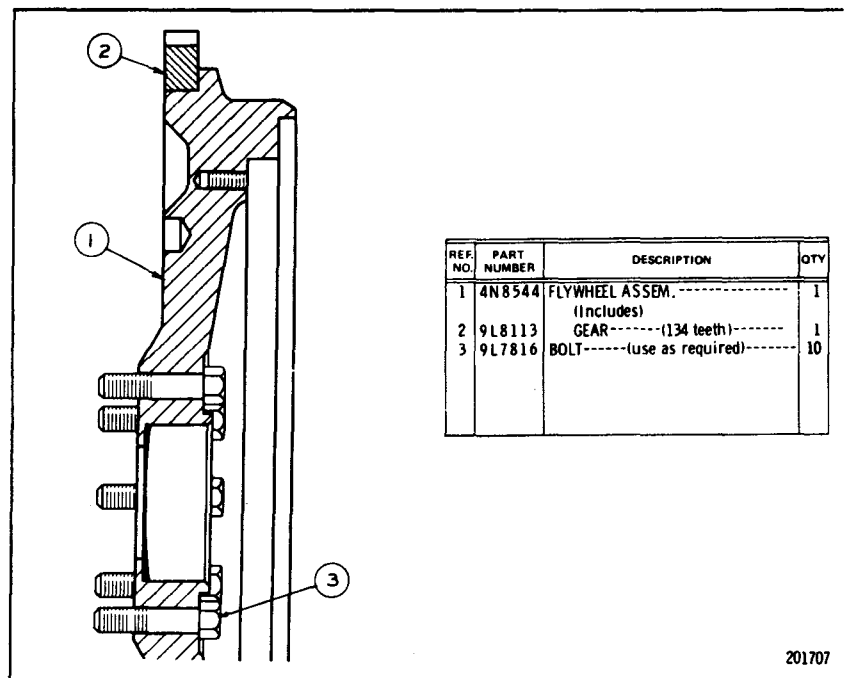
9N5224 SUPPORT GROUP



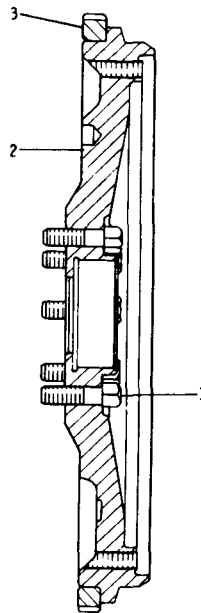
1N9939 SUPPORT GROUP
AN ATTACHMENT



4N4854 FLYWHEEL GROUP
FOR USE WITH SAE NO.2 FLYWHEEL HOUSING



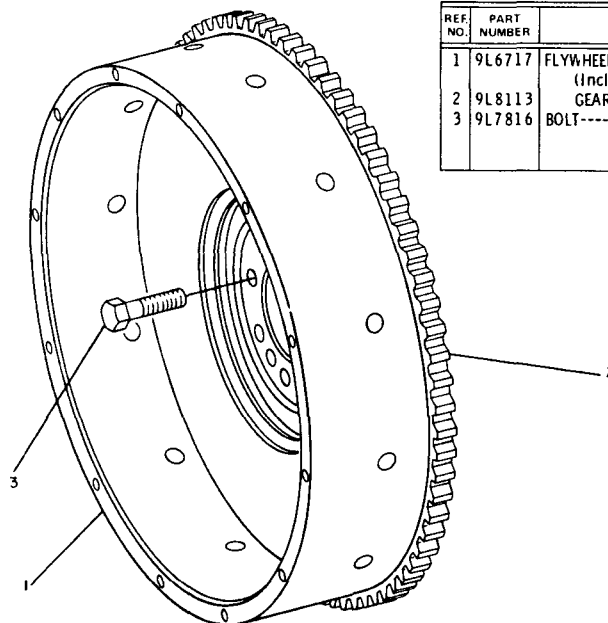
4N8850 FLYWHEEL GROUP
FOR USE WITH SAE NO. 2 FLYWHEEL HOUSING



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9L7816	BOLT----- (use as required)-----	10
2	6N8798	FLYWHEEL ASSEM. ----- (Includes)	1
3	2N1599	GEAR----- (126 teeth)-----	1

162147

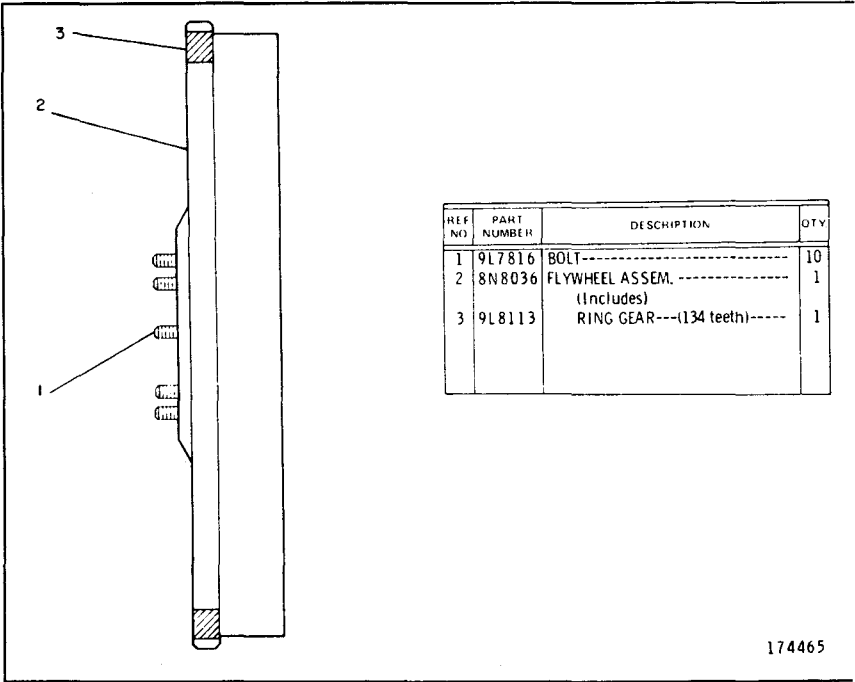
6N8799 FLYWHEEL GROUP
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING
ALSO AN ATTACHMENT



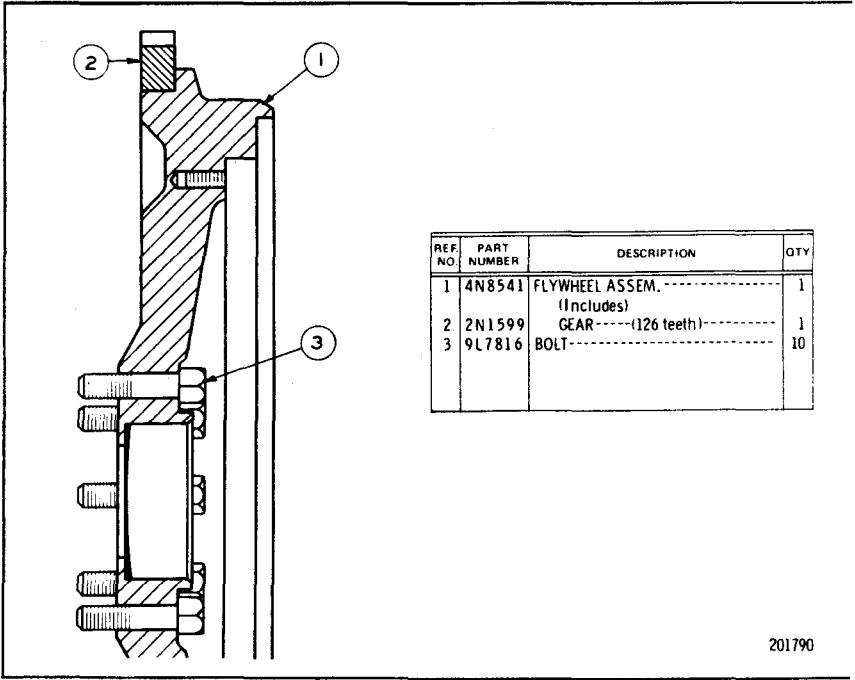
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9L6717	FLYWHEEL ASSEM. ----- (Includes)	1
2	9L8113	GEAR----- (134 teeth)-----	1
3	9L7816	BOLT-----	10

227257

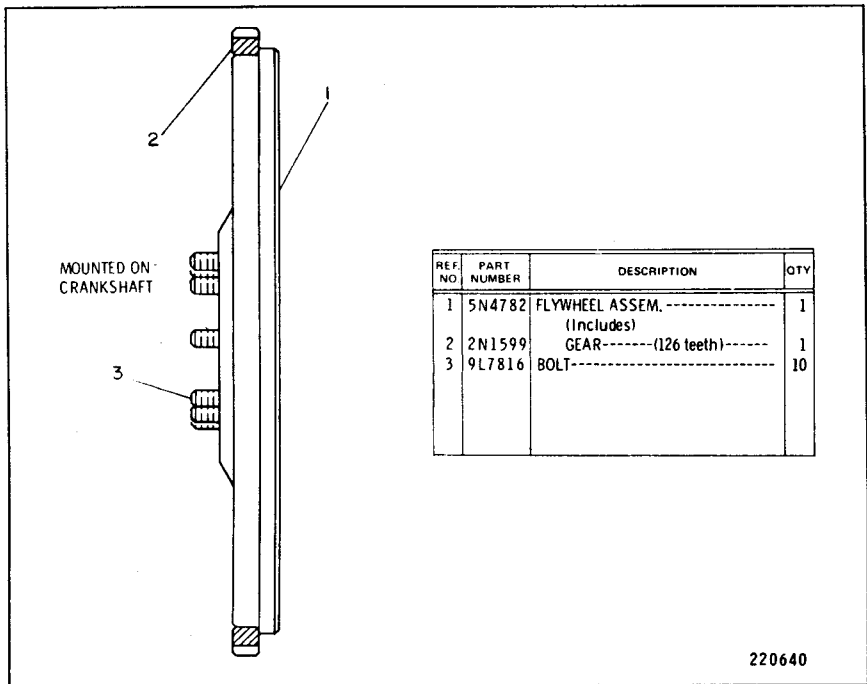
9L6920 FLYWHEEL GROUP
FOR USE WITH SAE NO. 2 FLYWHEEL HOUSING AND 14" 2 PLATE SPICER OR
TYPE M1 OR PT CLUTCH



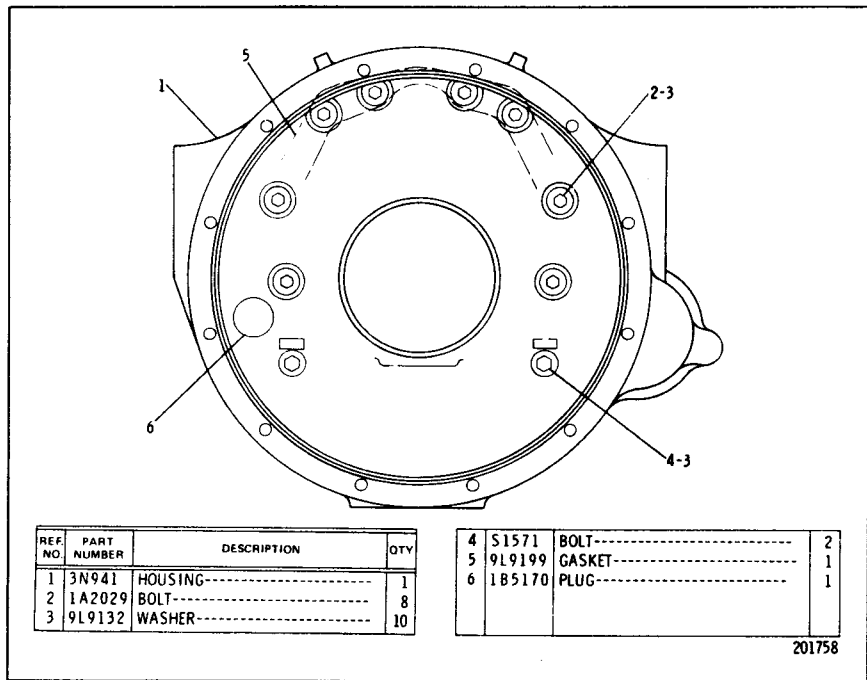
8N8037 FLYWHEEL GROUP
FOR USE WITH SAE NO. 2 FLYWHEEL HOUSING



4N8851 FLYWHEEL GROUP
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING

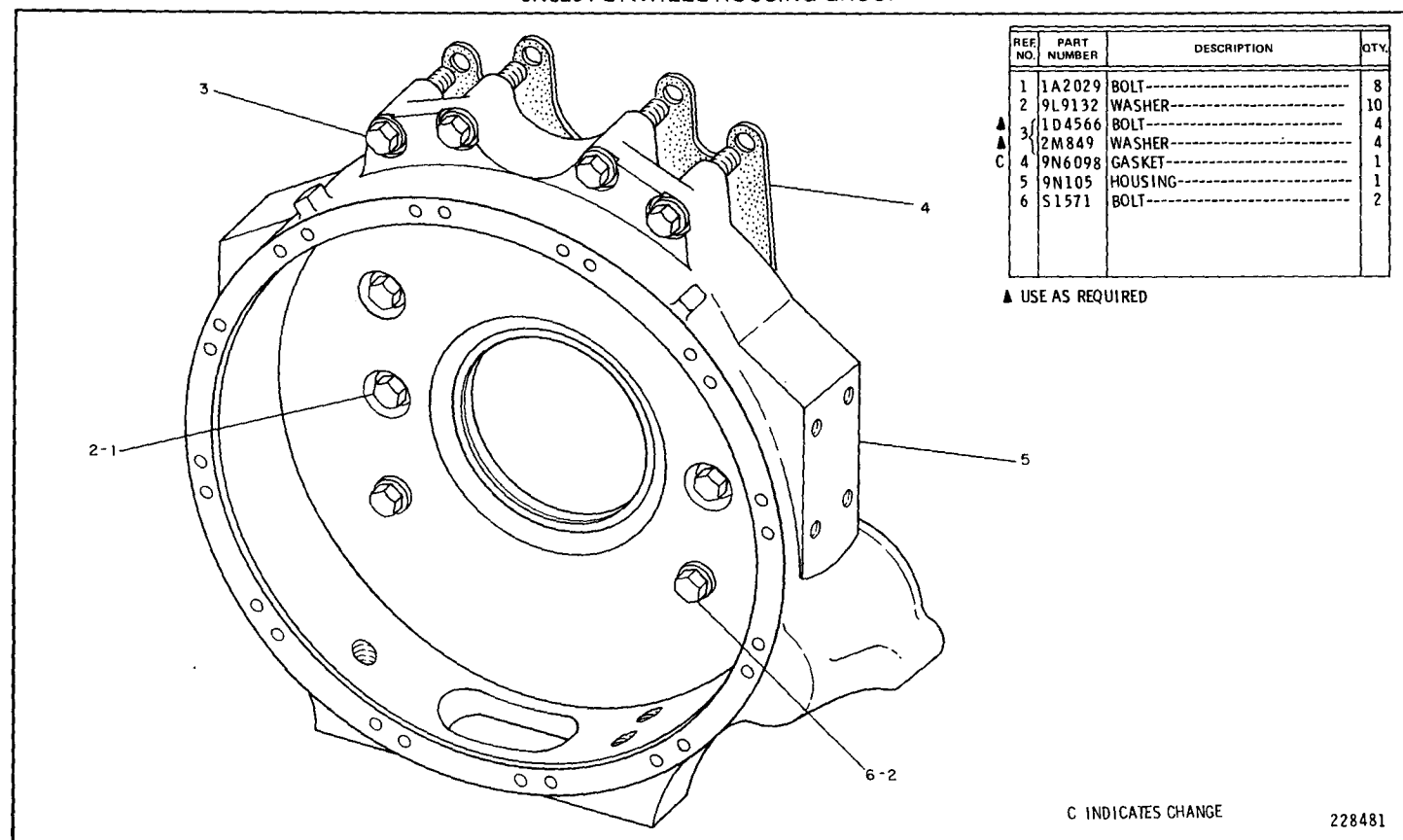


5N4783 FLYWHEEL GROUP
FOR USE WITH SAE NO. 3 FLYWHEEL HOUSING AND CLARK HR-1800
TRANSMISSION. AN ATTACHMENT



4N7889 FLYWHEEL HOUSING GROUP

9N529 FLYWHEEL HOUSING GROUP

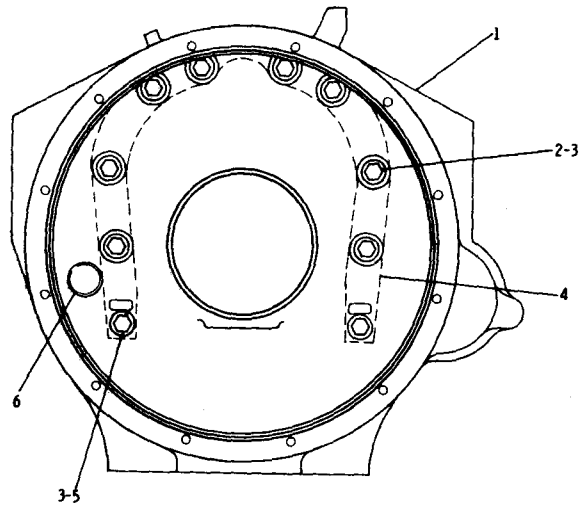


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	1A2029	BOLT-----	8
2	9L9132	WASHER-----	10
3	1D4566	BOLT-----	4
4	2M849	WASHER-----	4
5	9N6098	GASKET-----	1
6	9N105	HOUSING-----	1
	S1571	BOLT-----	2

▲ USE AS REQUIRED

C INDICATES CHANGE

228481



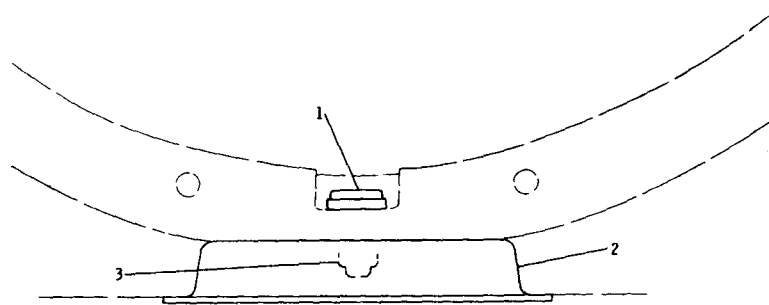
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	2N1602	HOUSING-----	1
2	1A2029	BOLT-----	8

3	9L9132	WASHER-----	10
4	9L9199	GASKET-----	1
5	S1571	BOLT-----	2
6	185170	PLUG-----	1

201380

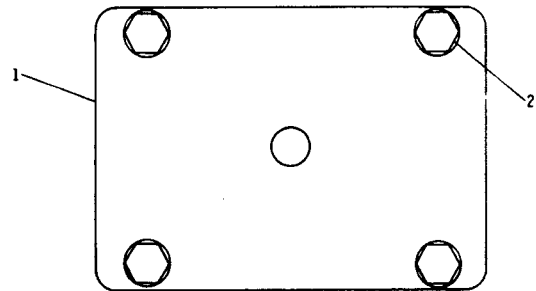
4N5870 FLYWHEEL HOUSING GROUP

REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	9L9815	RETAINER ASSEM.-----	1
2	9L9812	COVER-----	1
3	9L9814	NUT-----	1



201376

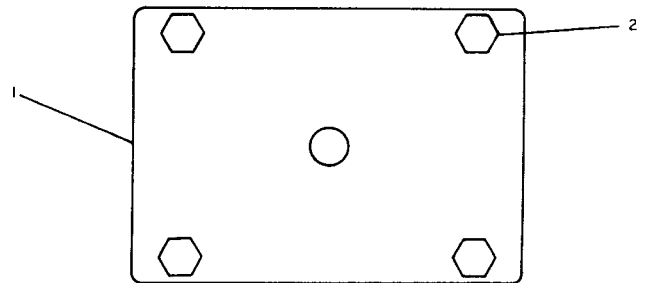
4N5866 FLYWHEEL HOUSING COVER GROUP



REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9L7859	PLATE-----	1
	1C569	BOLT----- (.50 in. long)-----	4
		-OR-	
2	2H3755	BOLT----- (.625 in. long)-----	4
	9M1974	WASHER-----	4

201708

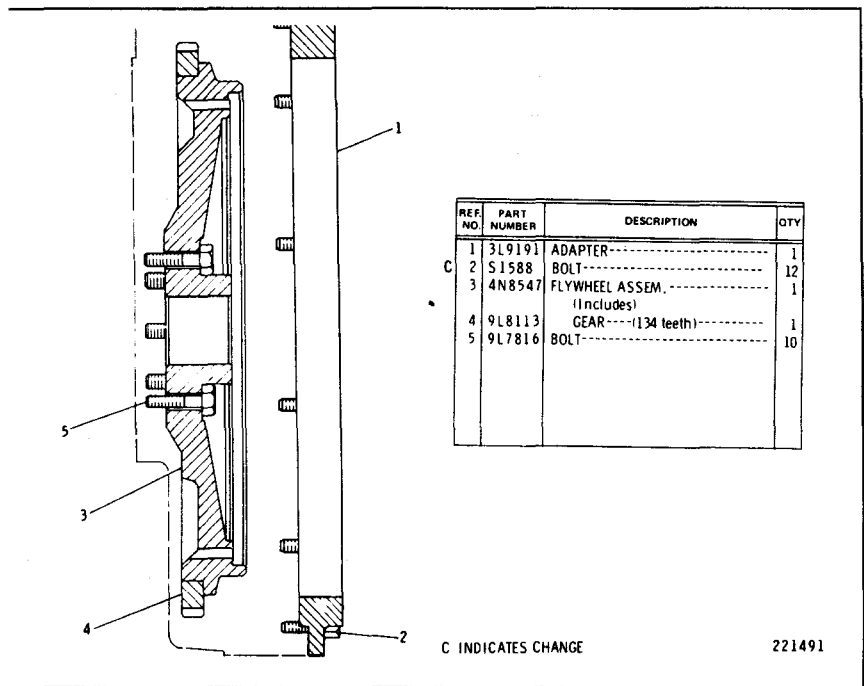
9L7861 FLYWHEEL HOUSING COVER GROUP



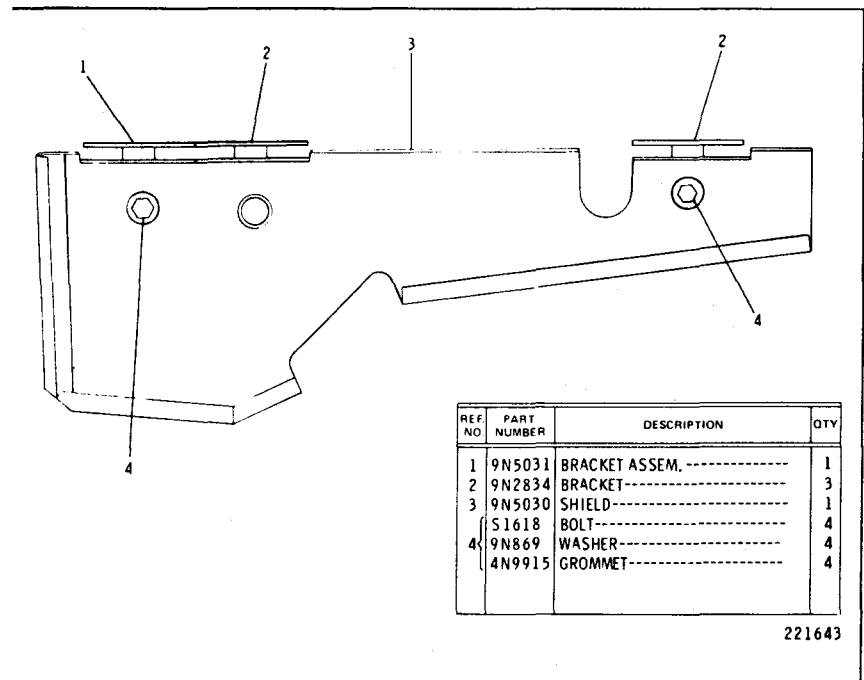
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9L7859	PLATE-----	1
2	2H3755	BOLT-----	4

172479

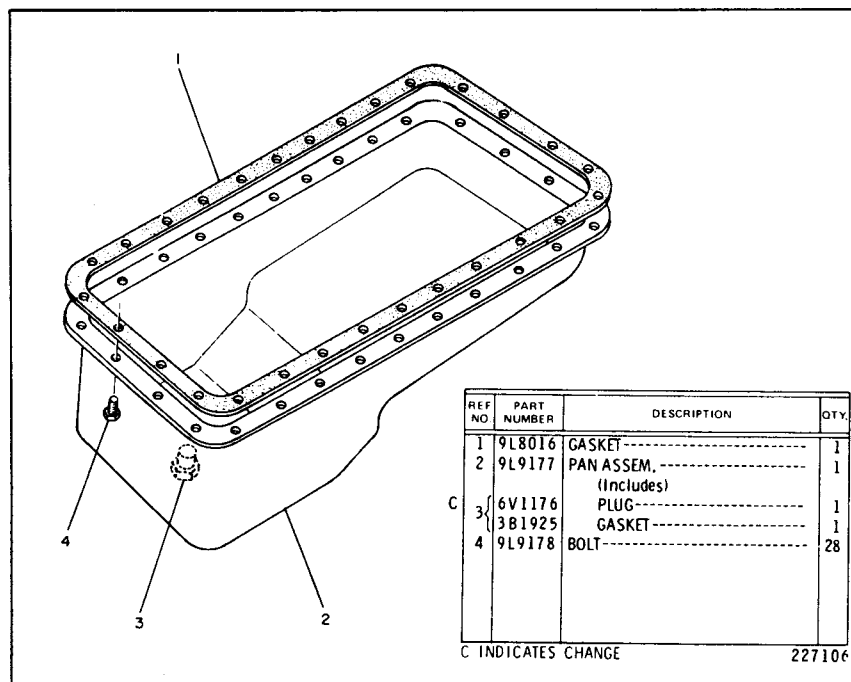
8N6368 FLYWHEEL HOUSING COVER GROUP



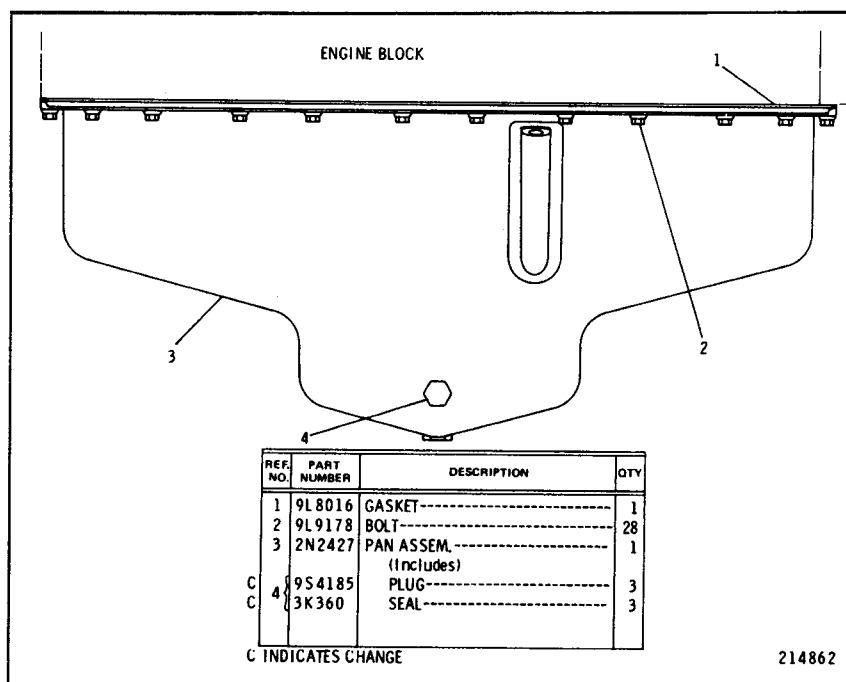
4N8849 TORQUE CONVERTER MOUNTING GROUP
FOR USE WITH SAE NO. 2 FLYWHEEL HOUSING
AN ATTACHMENT



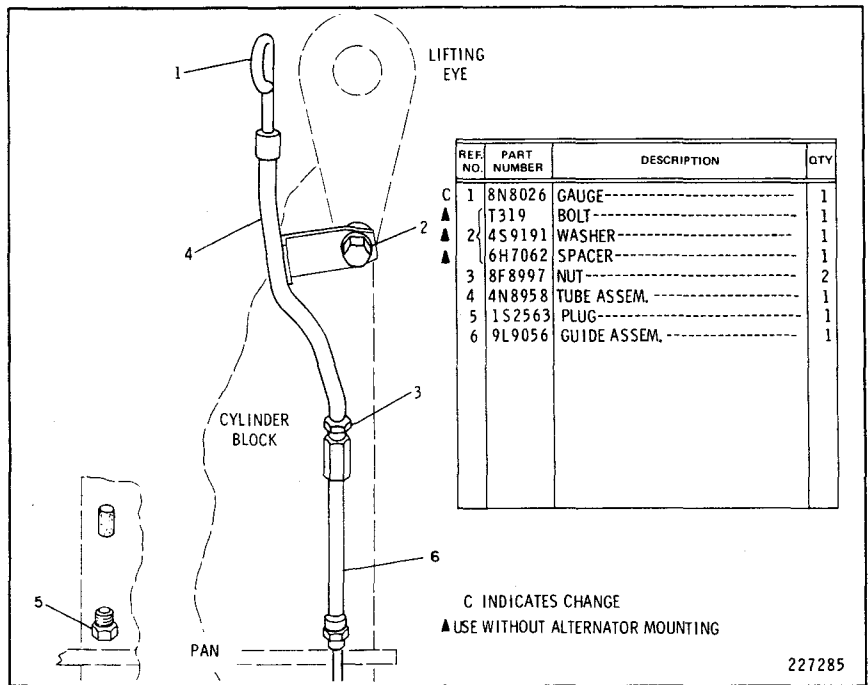
9N5032 OIL PAN SHIELD GROUP
FOR USE WITH FRONT OR REAR SUMP OIL PAN
AN ATTACHMENT



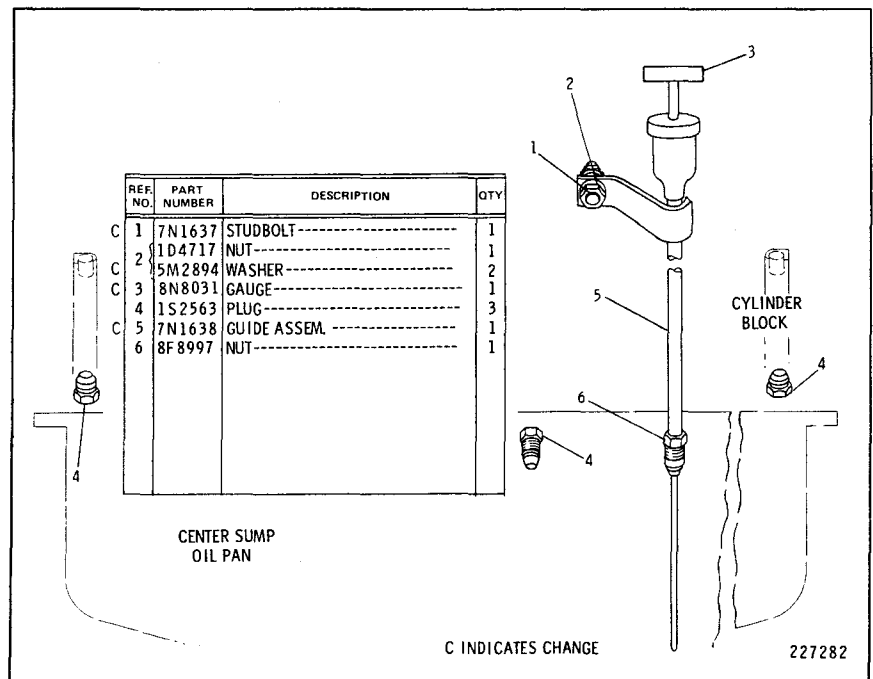
9N565 OIL PAN GROUP



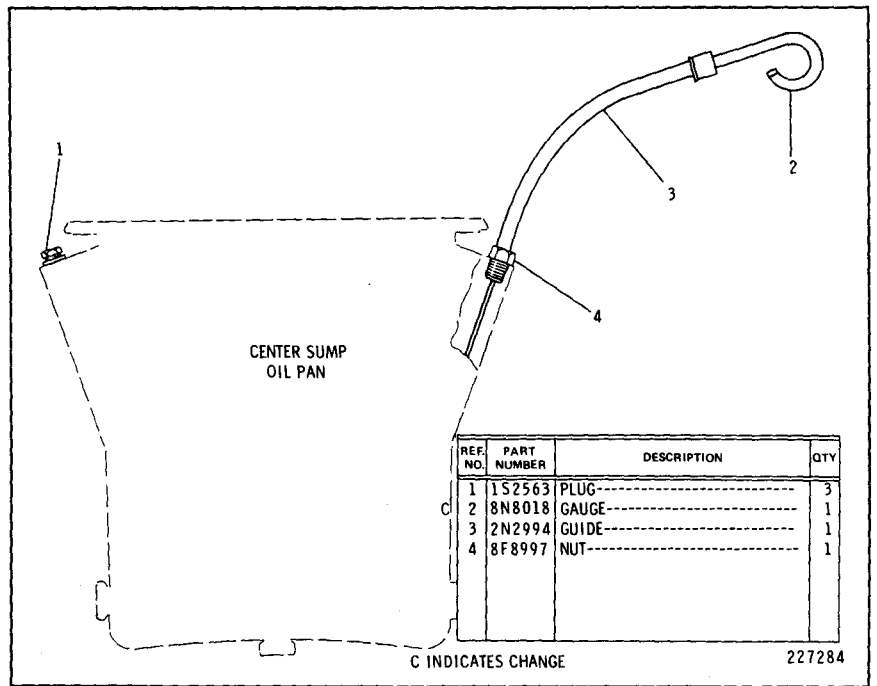
4N8853 OIL PAN GROUP-CENTER SUMP



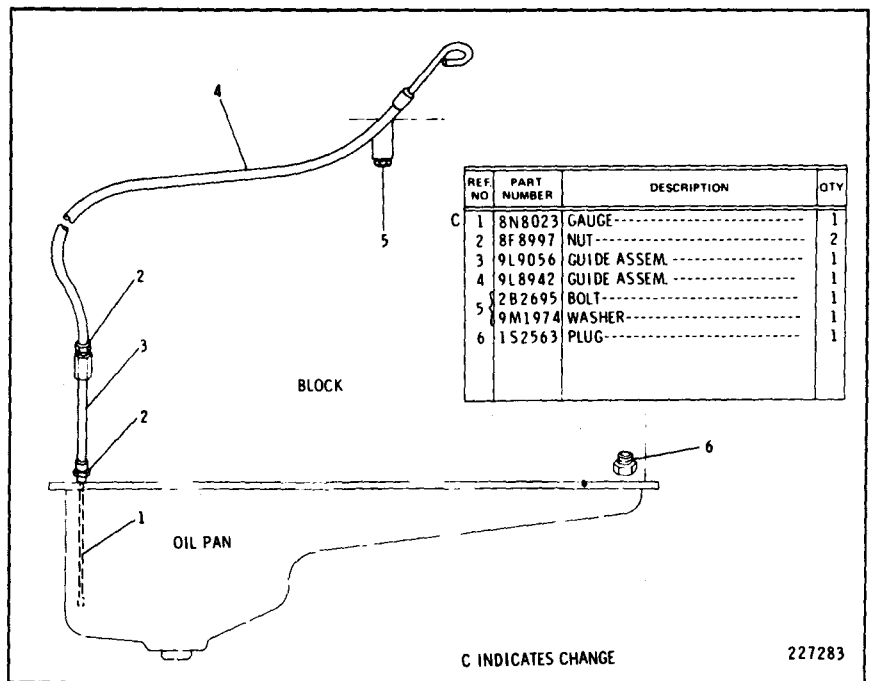
4N8930 OIL LEVEL GAUGE GROUP



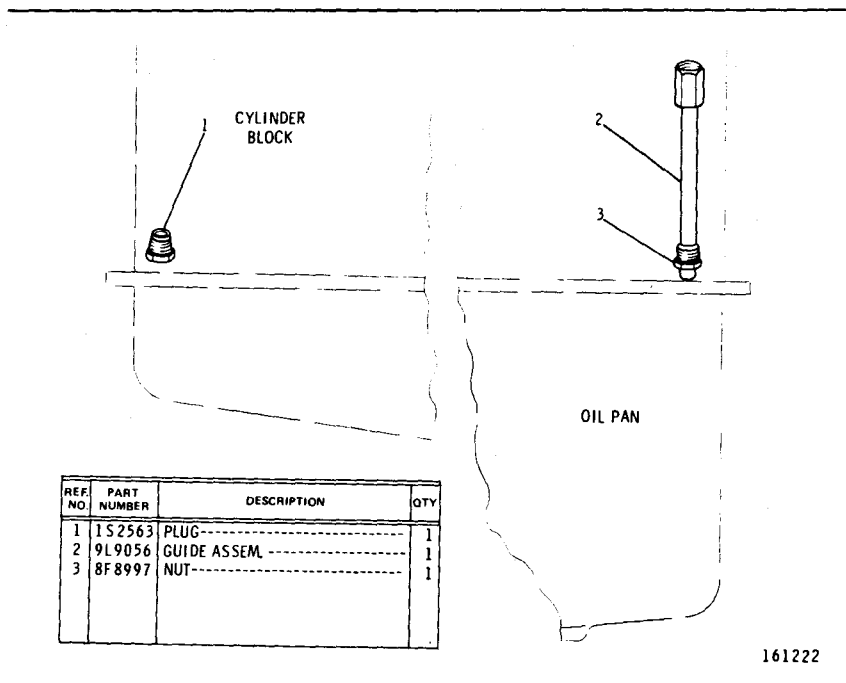
6N9935 OIL LEVEL GAUGE GROUP



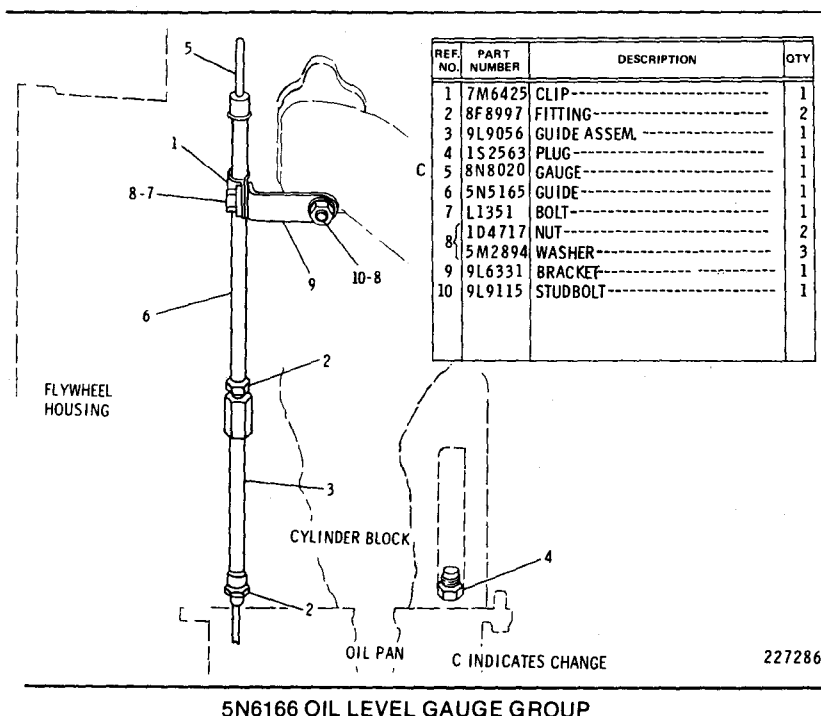
4N8855 OIL LEVEL GAUGE GROUP



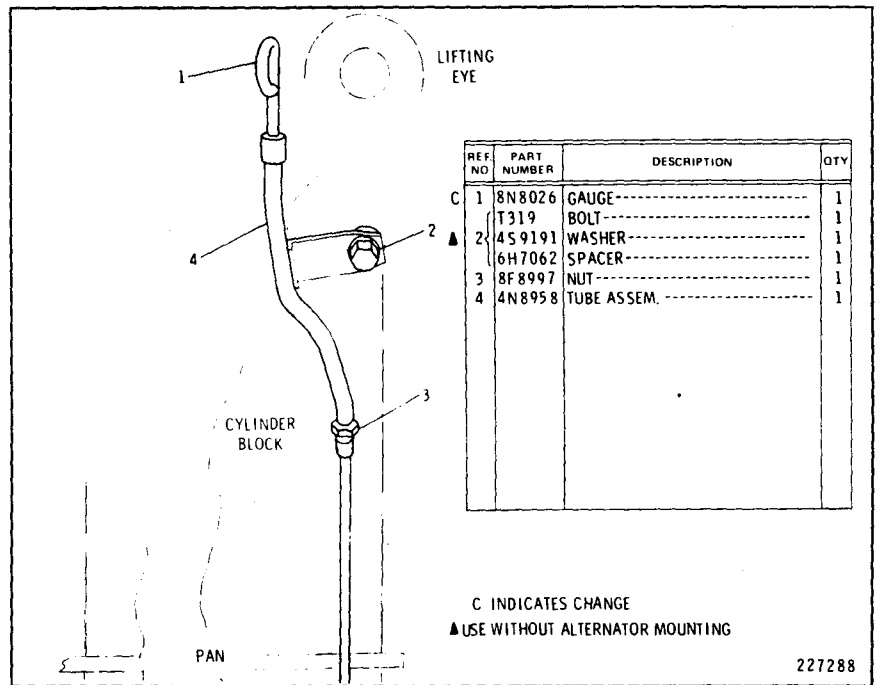
4N7720 OIL LEVEL GAUGE GROUP



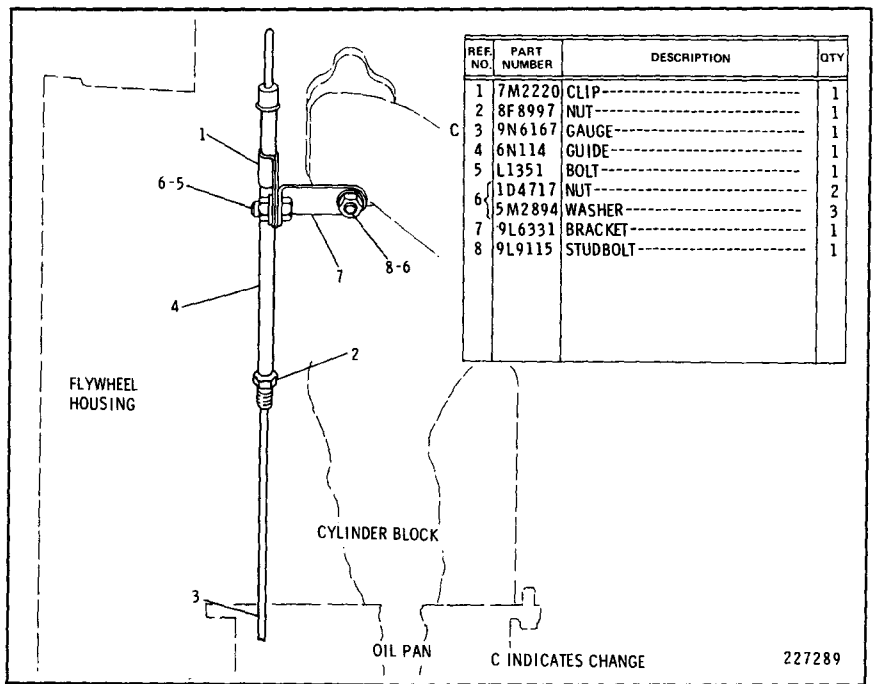
9N2538 OIL LEVEL GAUGE GROUP



5N6166 OIL LEVEL GAUGE GROUP



7N4303 OIL LEVEL GAUGE GROUP—Front Sump—Zero Degree Installation
AN ATTACHMENT



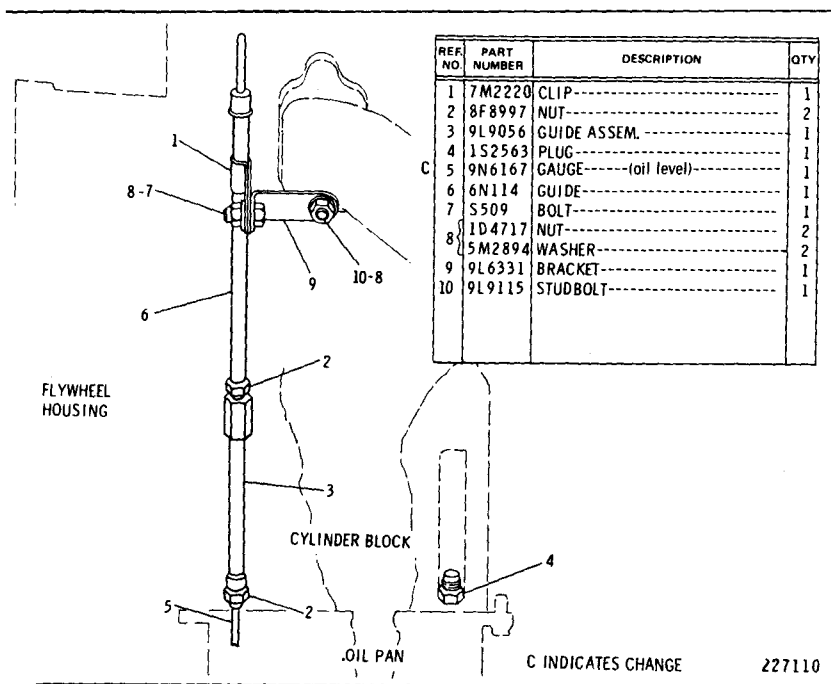
7N4304 OIL LEVEL GAUGE GROUP—Rear Sump—Zero Degree Installation
AN ATTACHMENT

CATERPILLAR 3208 INDUSTRIAL ENGINE

CONSISTS OF:

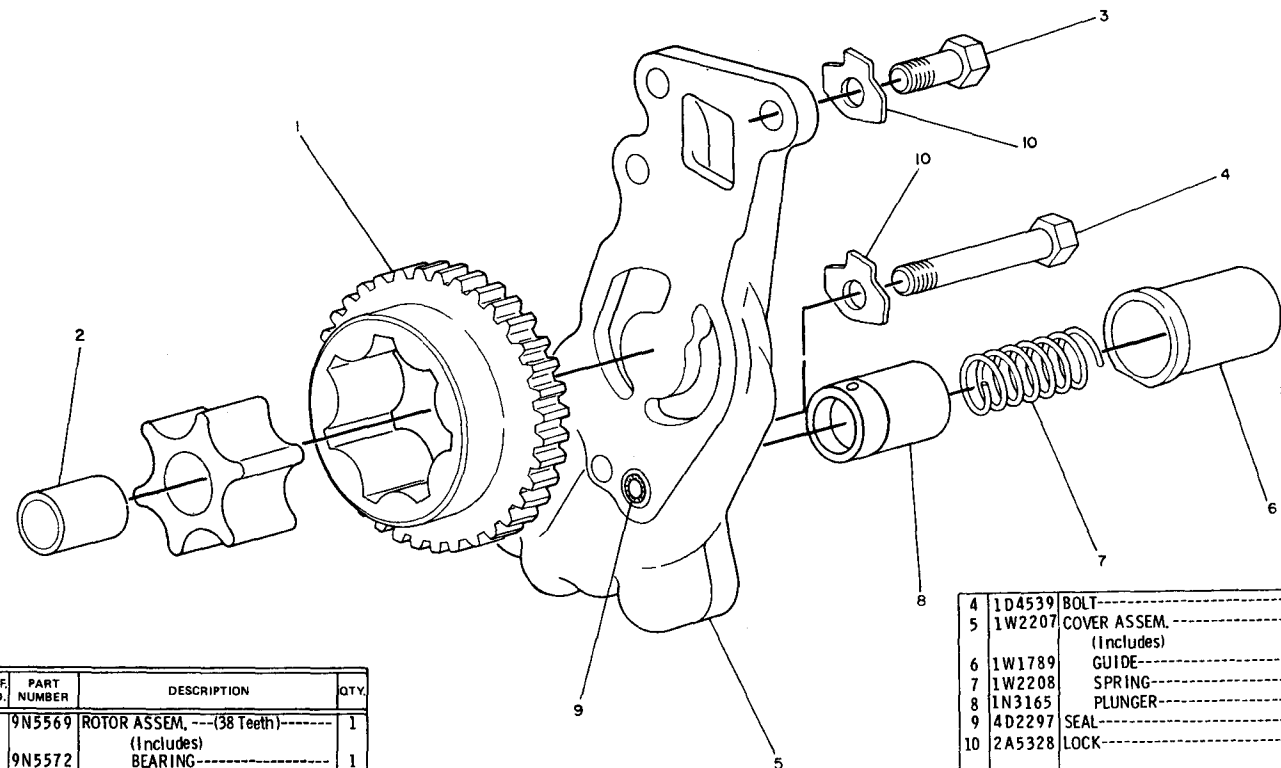
- 1 1D4717 NUT--GUIDE ASSEMBLY TO STUDBOLT
- 1 8F8997 FITTING--GUIDE ASSEMBLY TO OIL PAN
- 1 9L9658 LOCK--MANIFOLD
- 2 5M2894 WASHER--GUIDE ASSEMBLY TO STUDBOLT
- 1 7N1637 STUDBOLT--EXHAUST MANIFOLD TO CYLINDER HEAD
- 1 7N1638 GUIDE ASSEMBLY--OIL LEVEL
- 1 9N8031 GAUGE--OIL LEVEL
- 1 FORM SNHS6968

7N1754 OIL LEVEL GAUGE CHANGEOVER GROUP



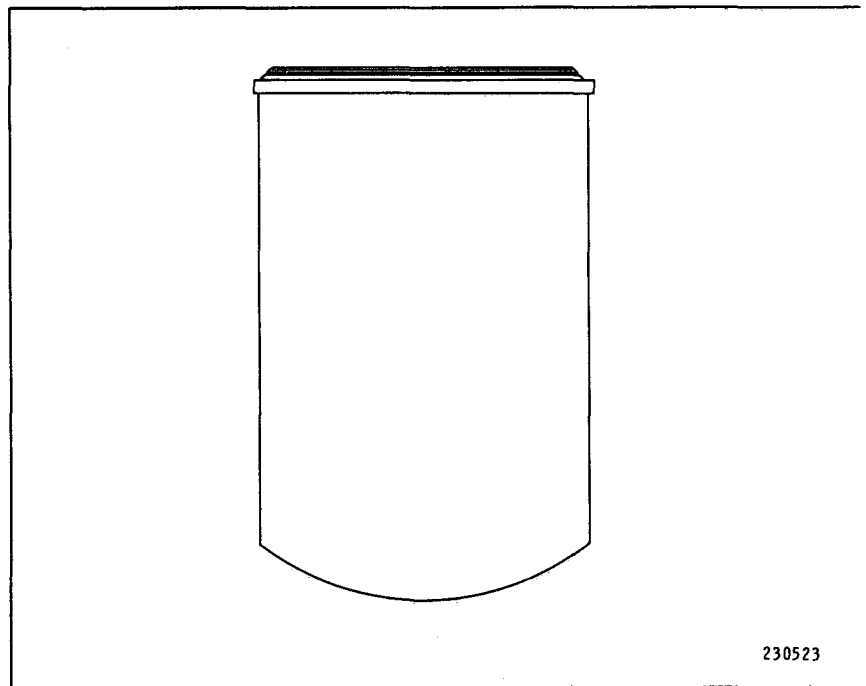
9N142 OIL LEVEL GAUGE GROUP

1W2206 OIL PUMP GROUP—Without Housing

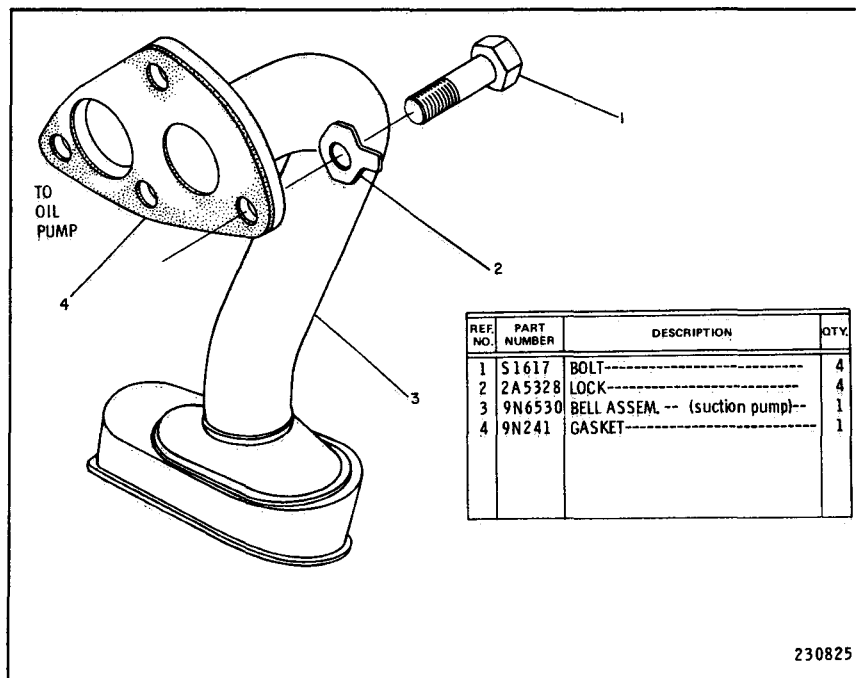


REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	9N5569	ROTOR ASSEM. --- (38 Teeth) ---	1
2	9N5572	BEARING ---	1
3	S1618	BOLT ---	3

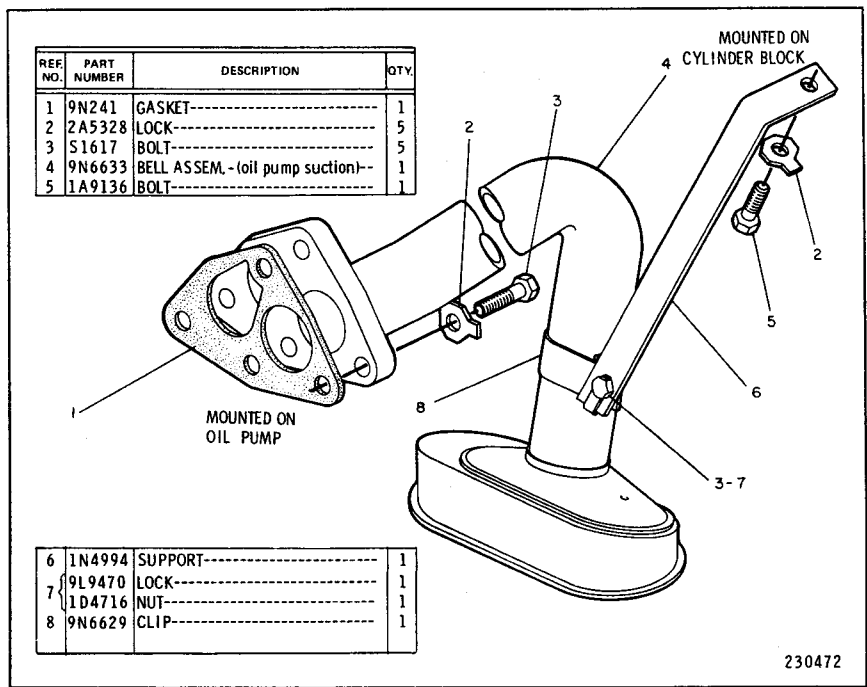
4	1D4539	BOLT ---	1
5	1W2207	COVER ASSEM. --- (Includes)	1
6	1W1789	GUIDE ---	1
7	1W2208	SPRING ---	1
8	1N3165	PLUNGER ---	1
9	4D2297	SEAL ---	1
10	2A5328	LOCK ---	4



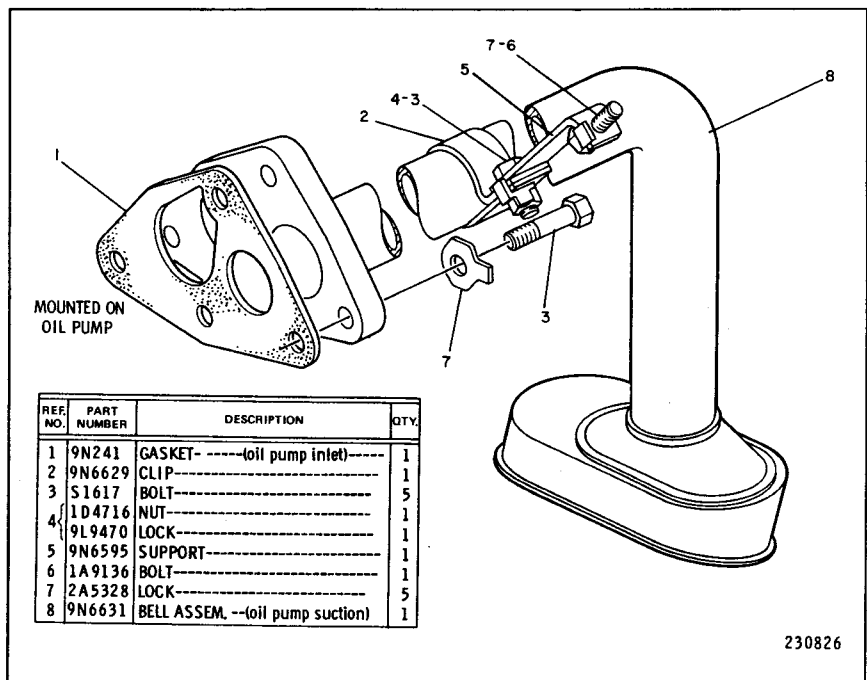
1W2638 OIL FILTER GROUP



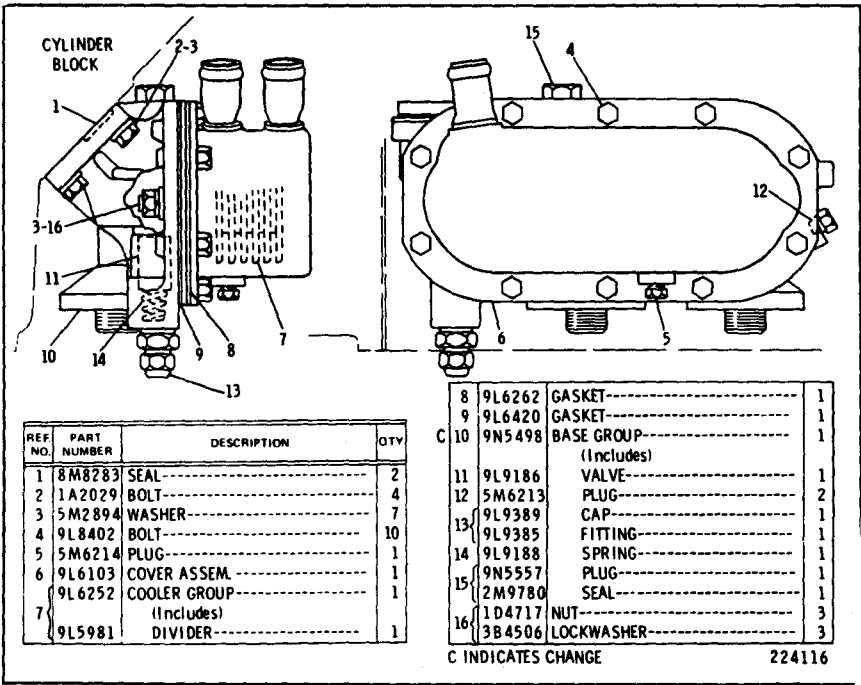
9N6641 OIL LINES GROUP—Front Sump



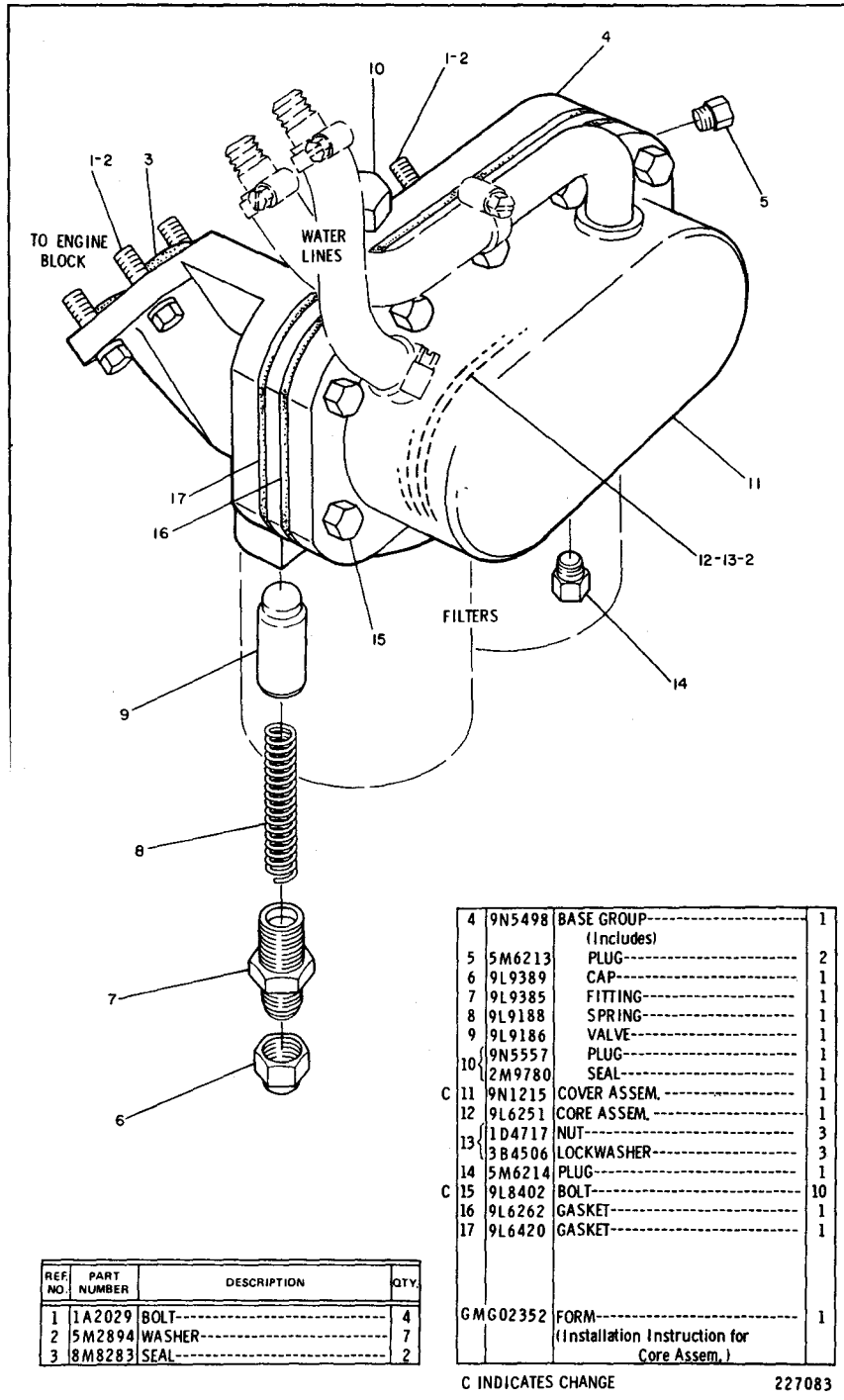
9N6634 OIL LINES GROUP—Center Sump



9N6632 OIL LINES GROUP—Rear Sump



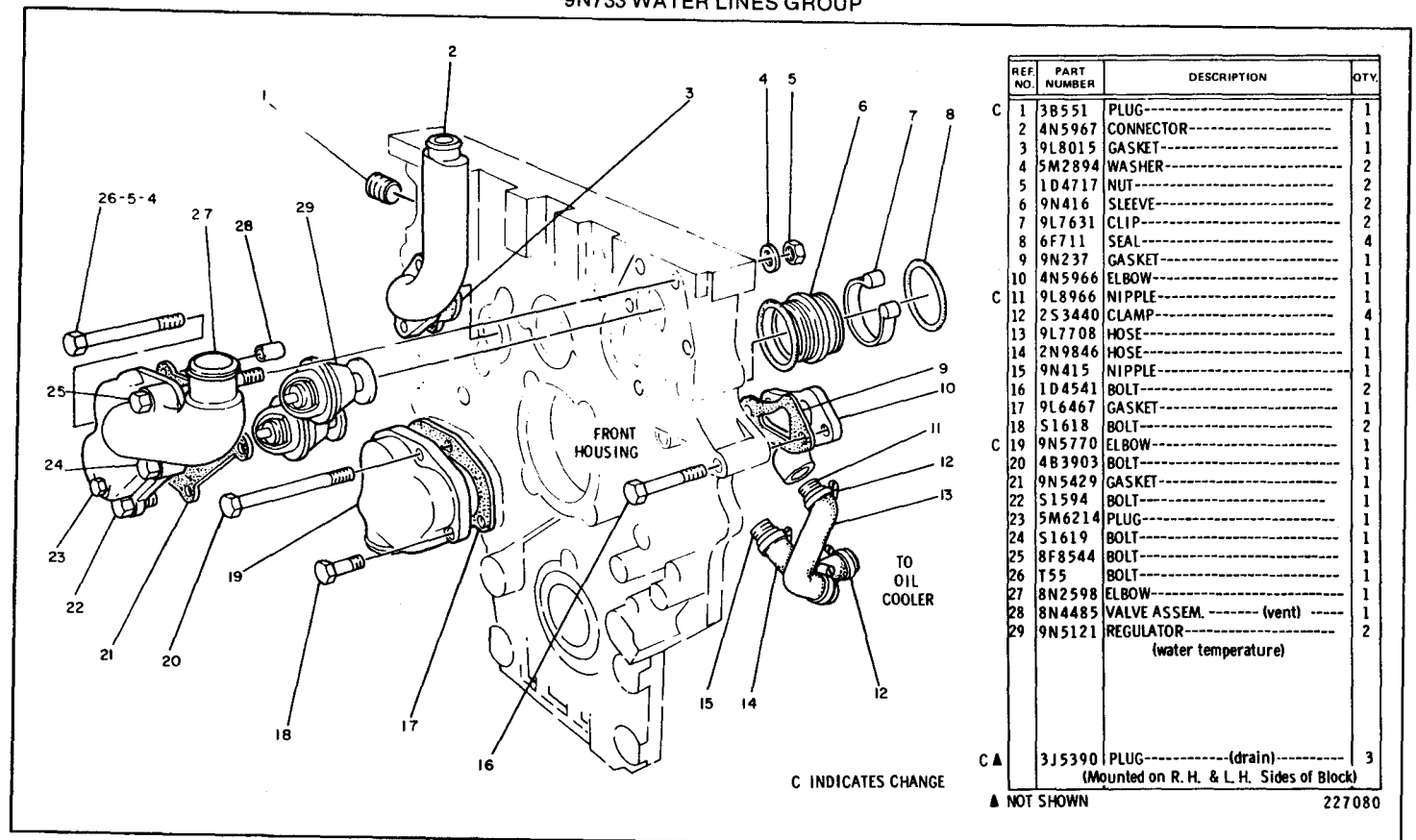
9N521 OIL COOLER GROUP

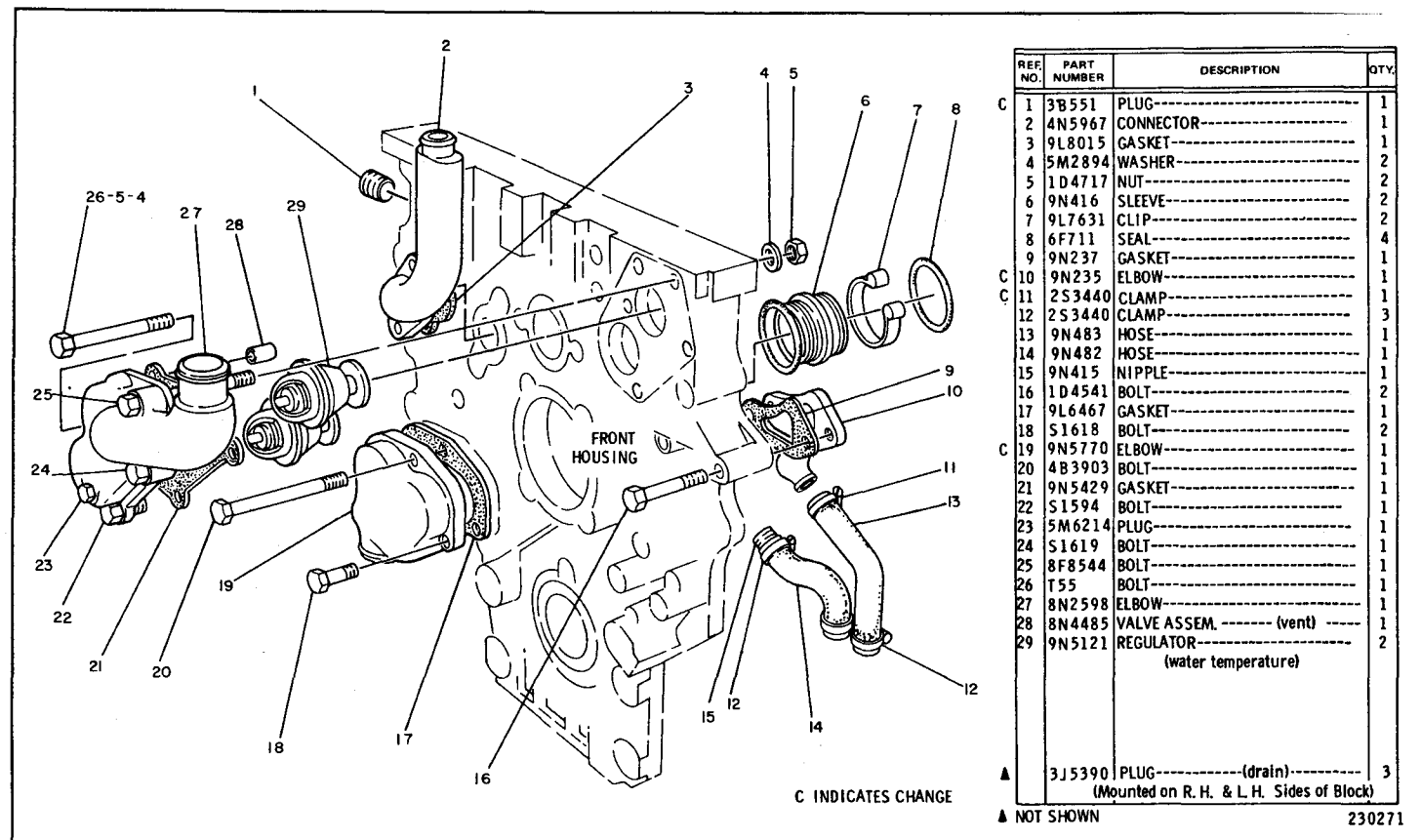


227083

9N729 OIL COOLER GROUP

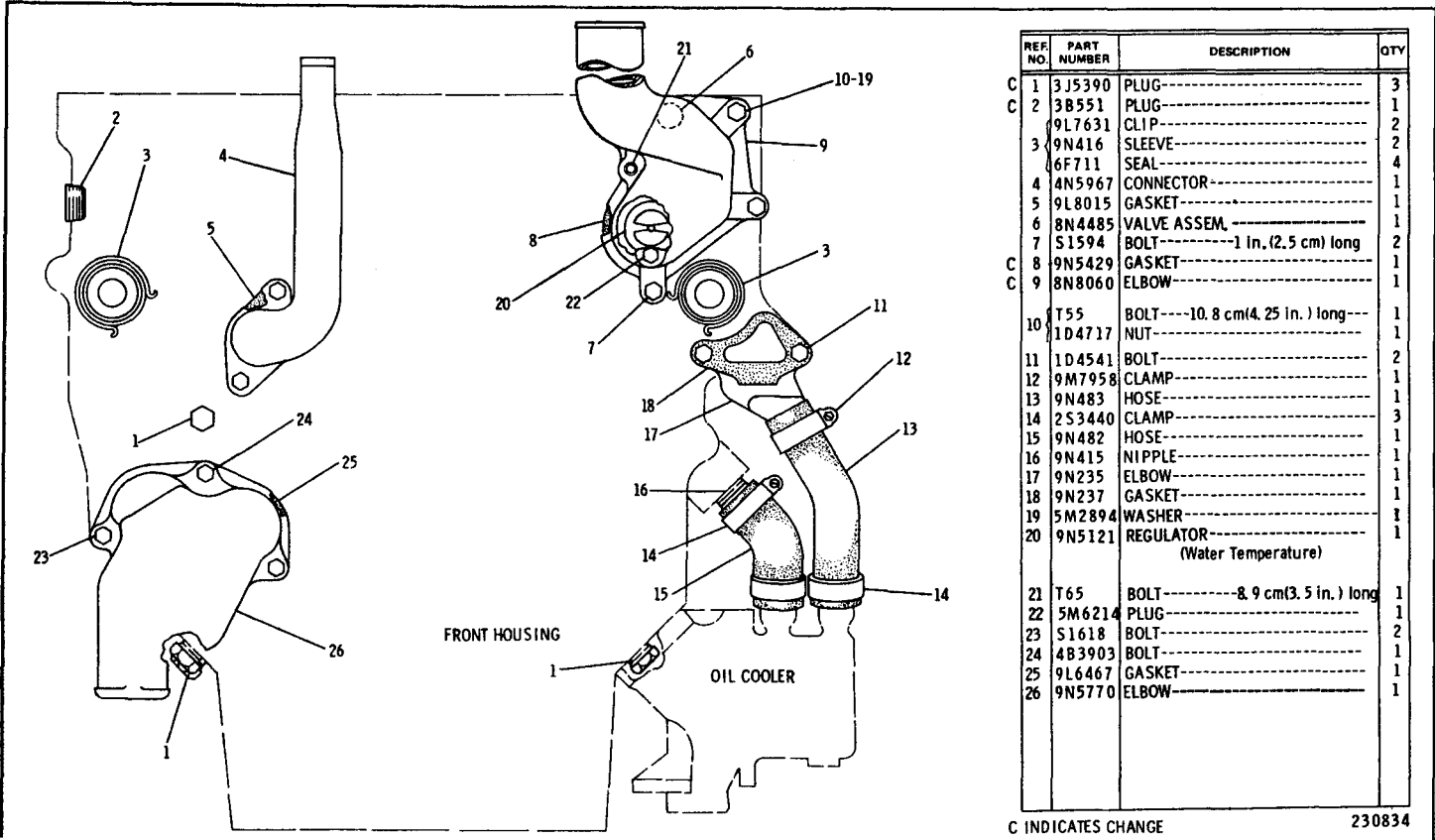
9N733 WATER LINES GROUP





6N466 WATER LINES GROUP

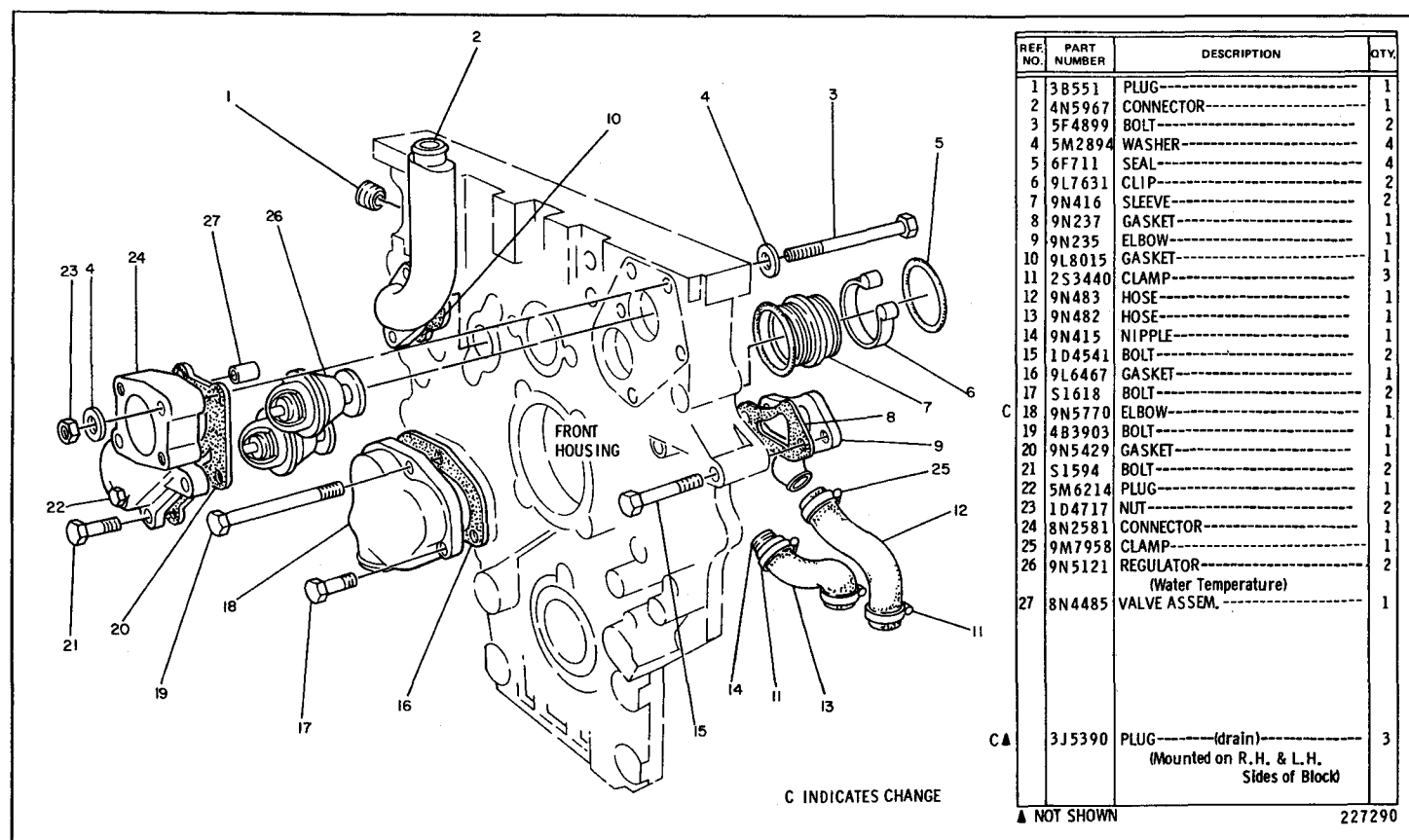
6N465 WATER LINES GROUP



REF. NO.	PART NUMBER	DESCRIPTION	QTY
C 1	3J5390	PLUG-----	3
C 2	3B551	PLUG-----	1
3	9L7631	CLIP-----	2
	9N416	SLEEVE-----	2
4	6F711	SEAL-----	4
	4N5967	CONNECTOR-----	1
5	9L8015	GASKET-----	1
6	8N4485	VALVE ASSEM.-----	1
7	51594	BOLT-----1 in. (2.5 cm) long	2
C 8	9N5429	GASKET-----	1
C 9	8N8060	ELBOW-----	1
10	T55	BOLT----10.8 cm (4.25 in.) long---	1
	1D4717	NUT-----	1
11	1D4541	BOLT-----	2
12	9M7958	CLAMP-----	1
13	9N483	HOSE-----	1
14	2S3440	CLAMP-----	3
15	9N482	HOSE-----	1
16	9N415	NIPPLE-----	1
17	9N235	ELBOW-----	1
18	9N237	GASKET-----	1
19	5M2894	WASHER-----	1
20	9N5121	REGULATOR-----	1
(Water Temperature)			
21	T65	BOLT-----8.9 cm (3.5 in.) long	1
22	5M6214	PLUG-----	1
23	51618	BOLT-----	2
24	4B3903	BOLT-----	1
25	9L6467	GASKET-----	1
26	9N5770	ELBOW-----	1

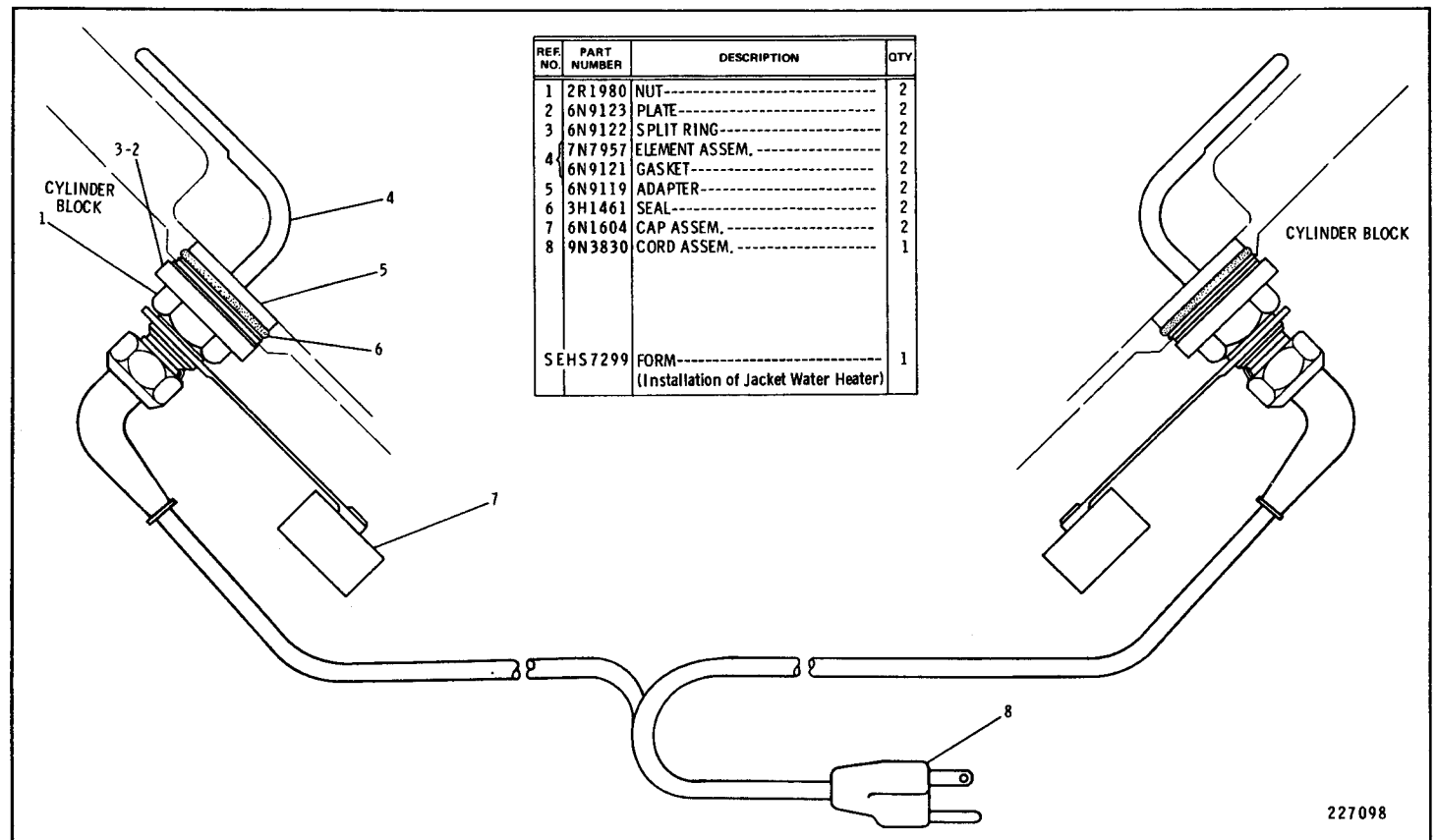
C INDICATES CHANGE

230834

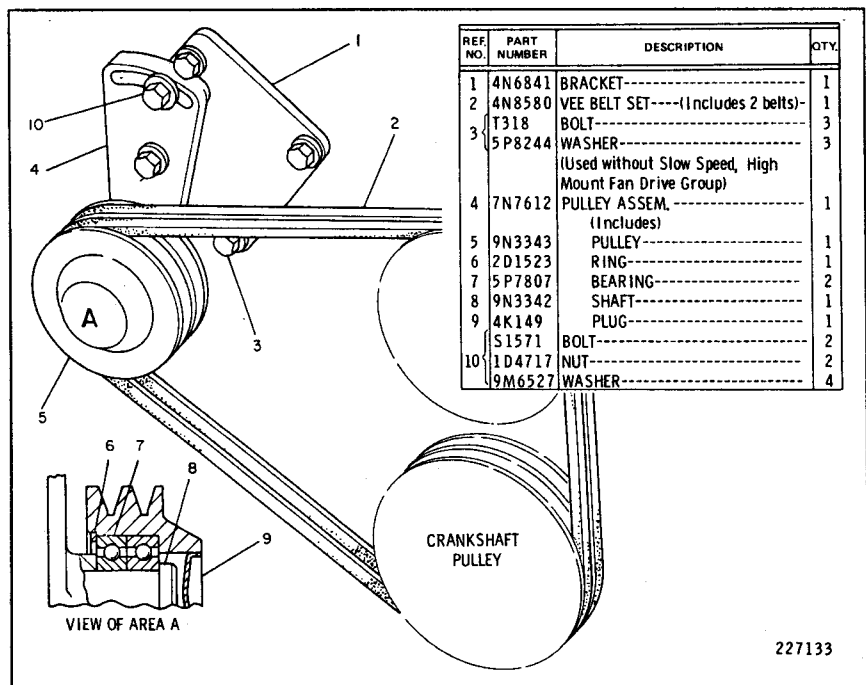


7N7844 WATER LINES GROUP

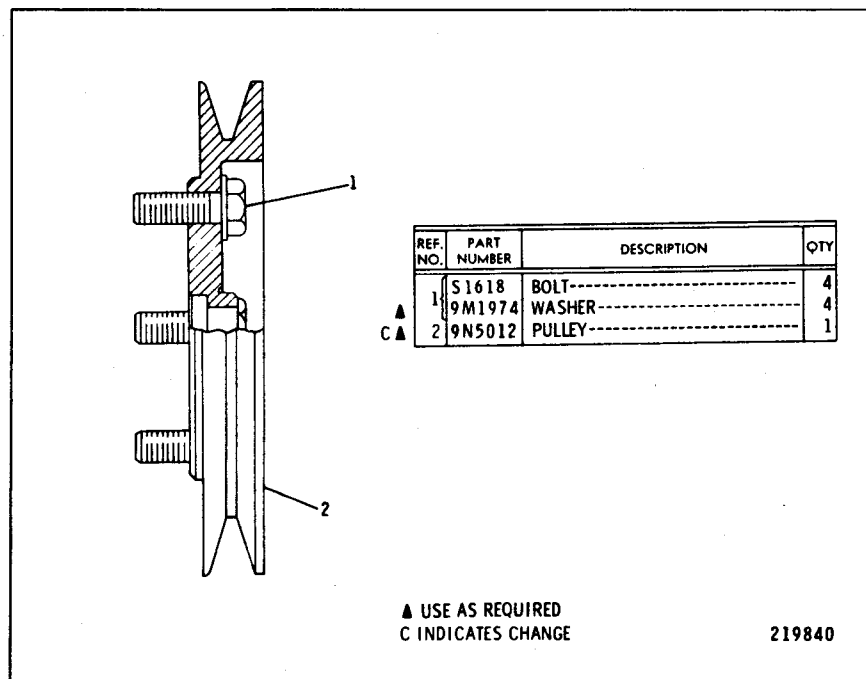
9N5753 JACKET WATER HEATER GROUP—Field Installation
 Provides two 750 watt block heaters to help reduce white smoke when starting engine in cold temperatures



227098

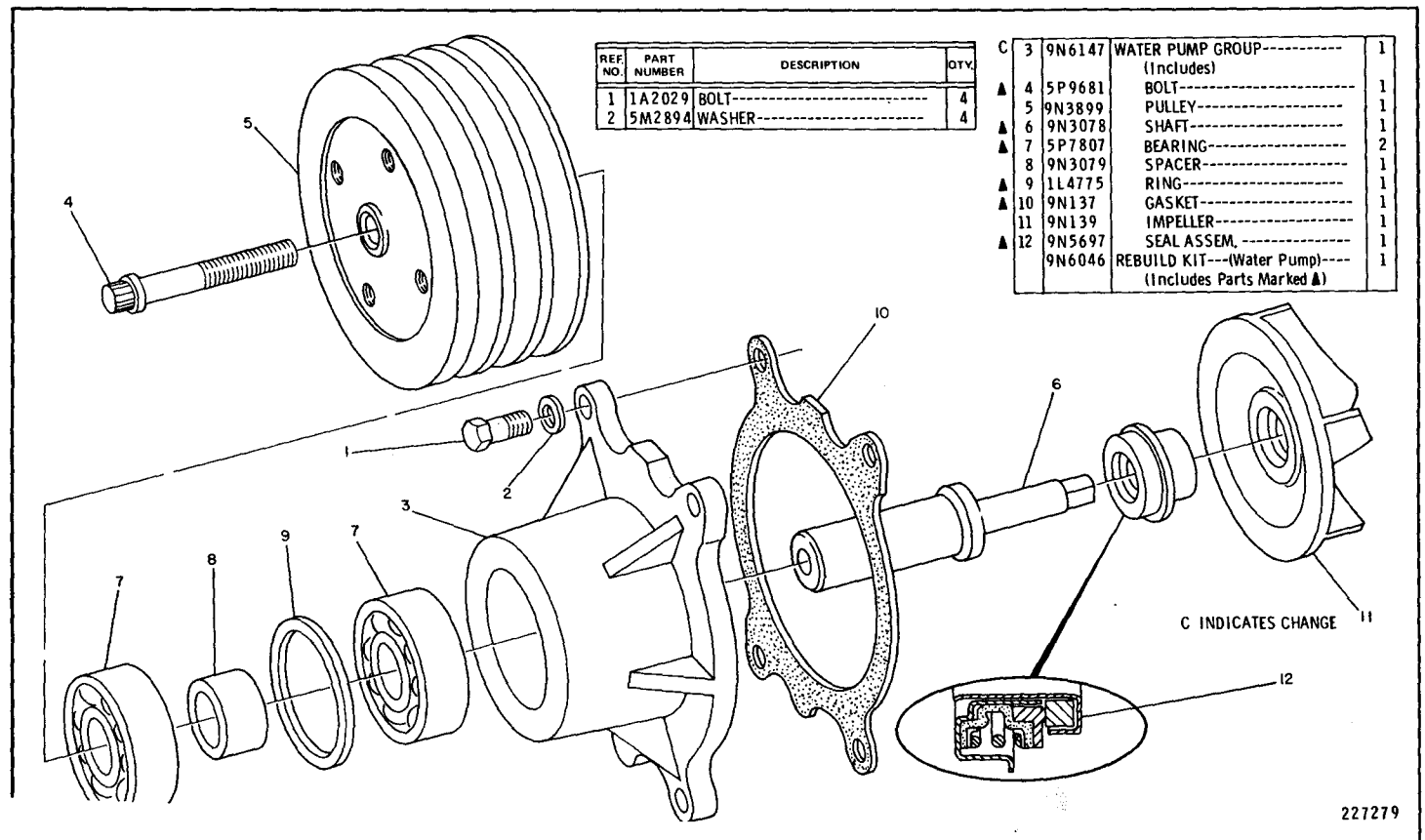


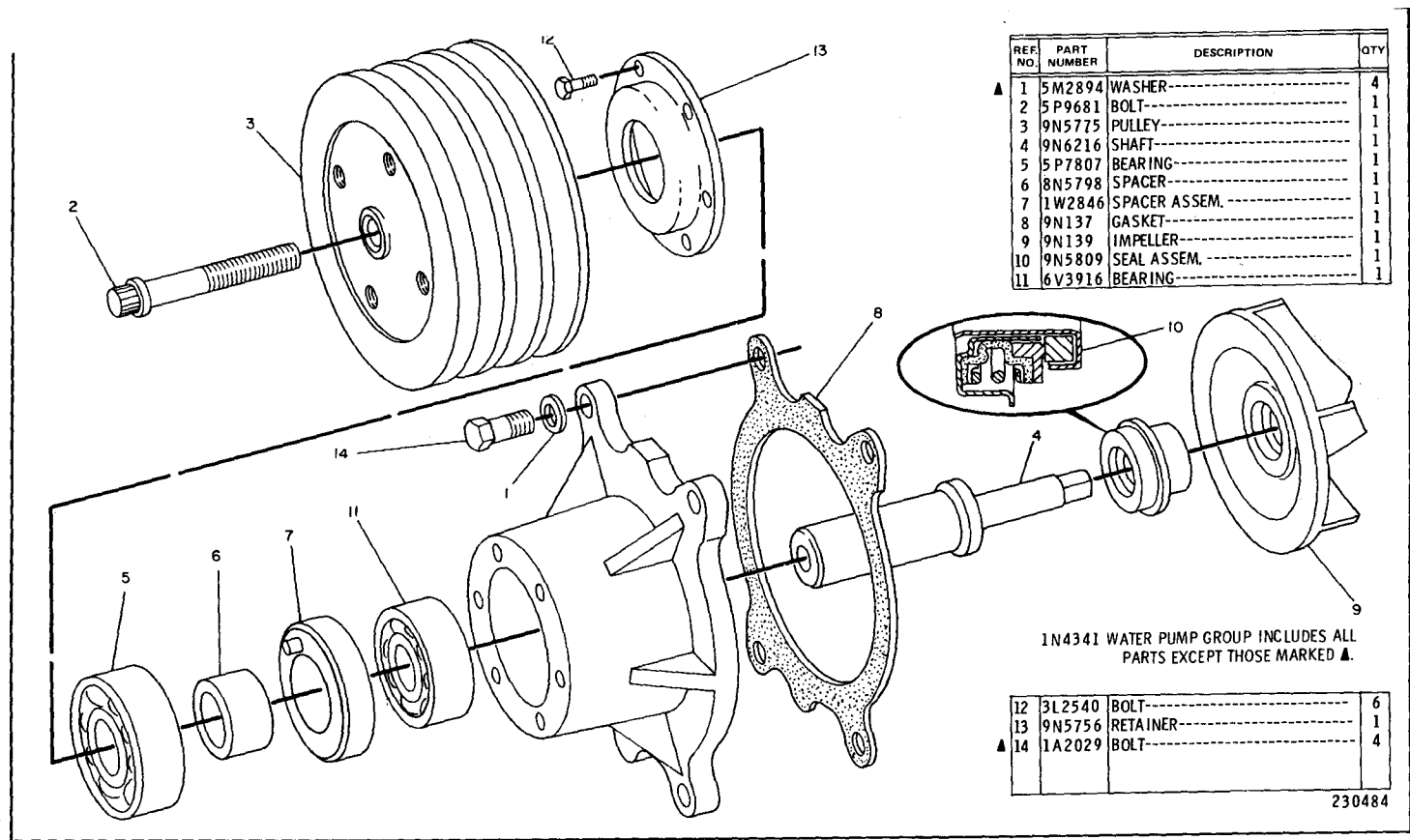
7N7613 WATER PUMP DRIVE GROUP
ALSO AN ATTACHMENT



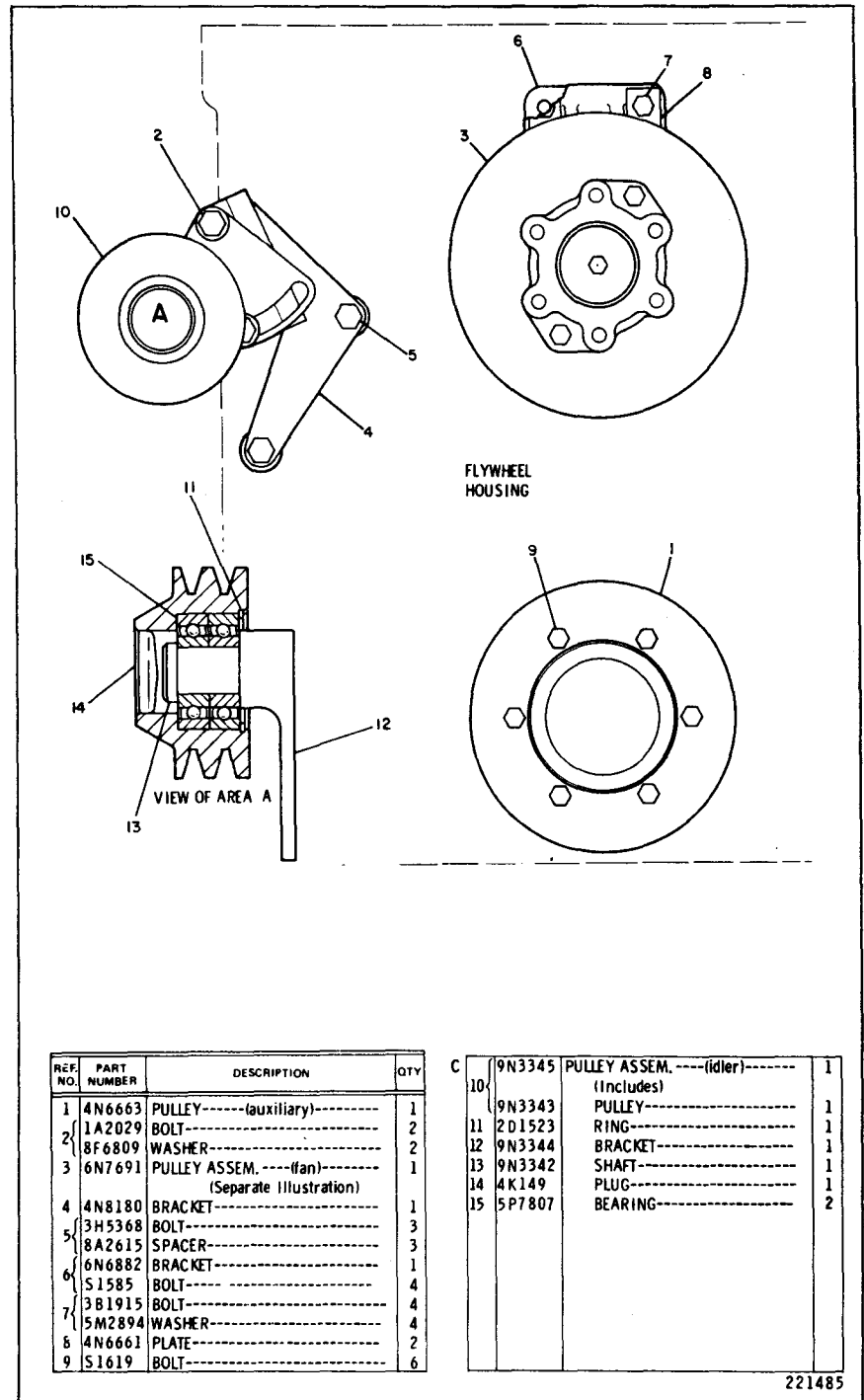
9L7462 WATER PUMP PULLEY GROUP
CANNOT BE USED WITH 4N7393 RADIATOR GROUP SHOWN ON PAGE 135

9N3654 WATER PUMP GROUP

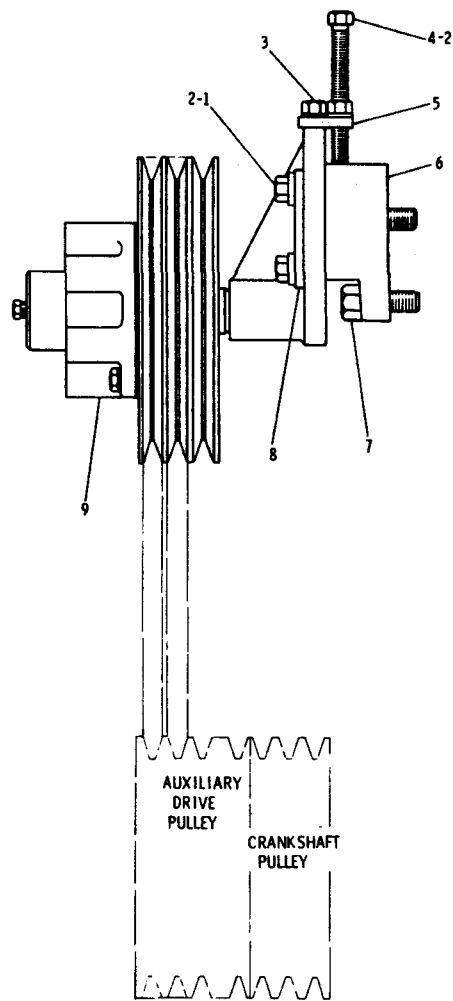




9N6501 WATER PUMP GROUP



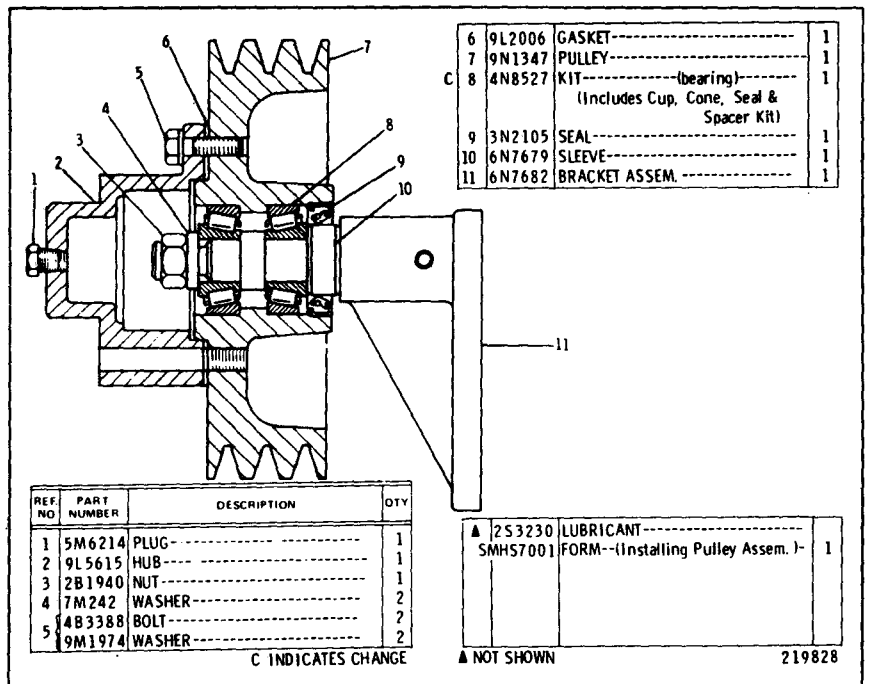
6N8622 FAN DRIVE GROUP
 FOR USE WITH CUSTOMER SUPPLIED RADIATOR AND 24 OR 26 INCH BELTS
 6N7691 Pulley parts are shown on Page 129. AN ATTACHMENT



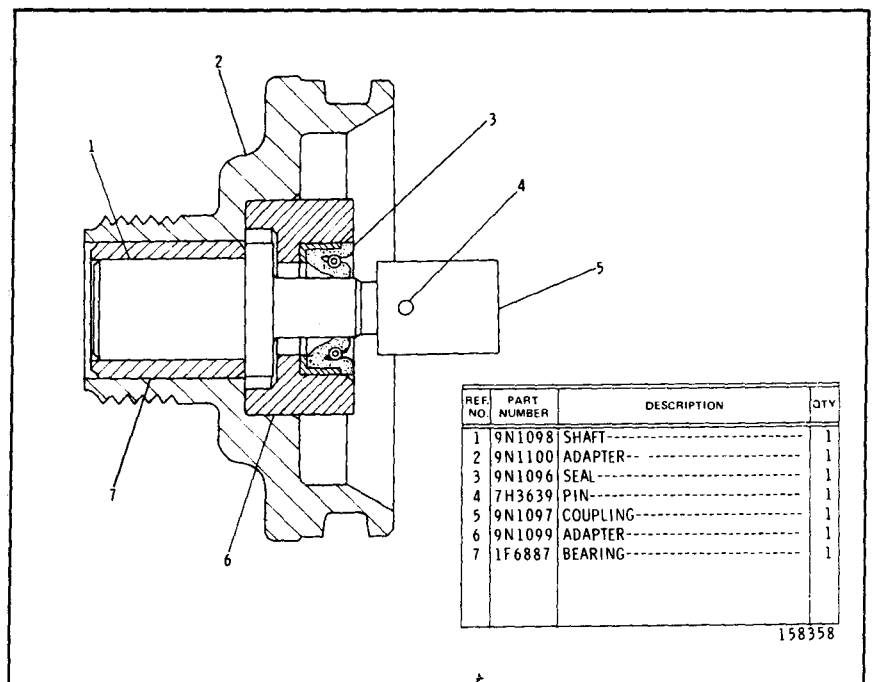
REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3B1915	BOLT-----	4
2	5M2894	WASHER-----	5
3	2B2695	BOLT-----	2
4	9M1974	WASHER-----	2
5	5B4274	BOLT-----	2
6	1D4717	NUT-----	2
7	1N9400	PLATE-----	1
8	6N6882	BRACKET-----	1
9	S1585	BOLT-----	4
	4N6661	PLATE-----	2
	6N7691	PULLEY ASSEM. (Separate Illustration)	1

167942

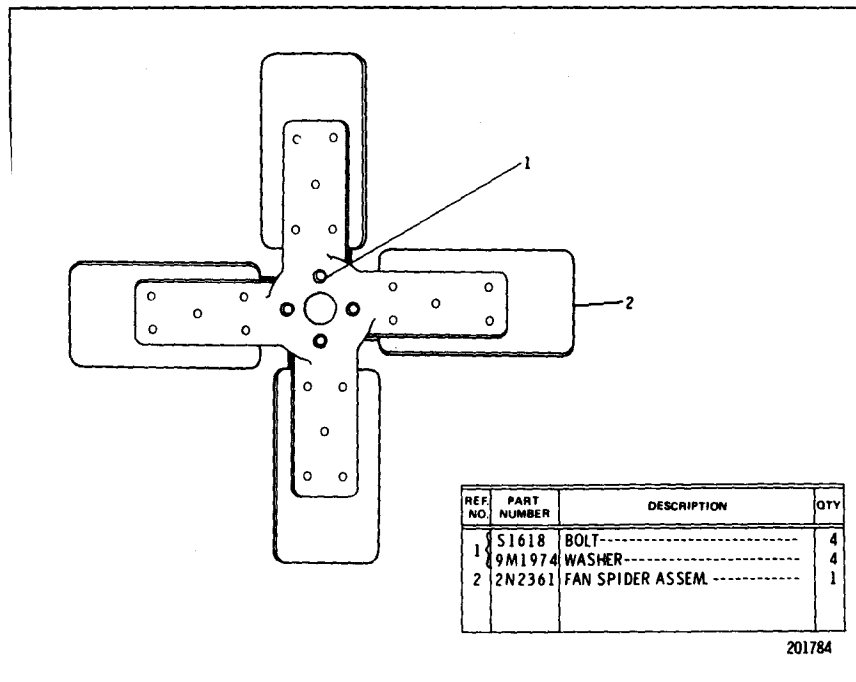
7N6526 FAN DRIVE GROUP
6N7691 Pulley parts are shown on Page 129
ALSO AN ATTACHMENT



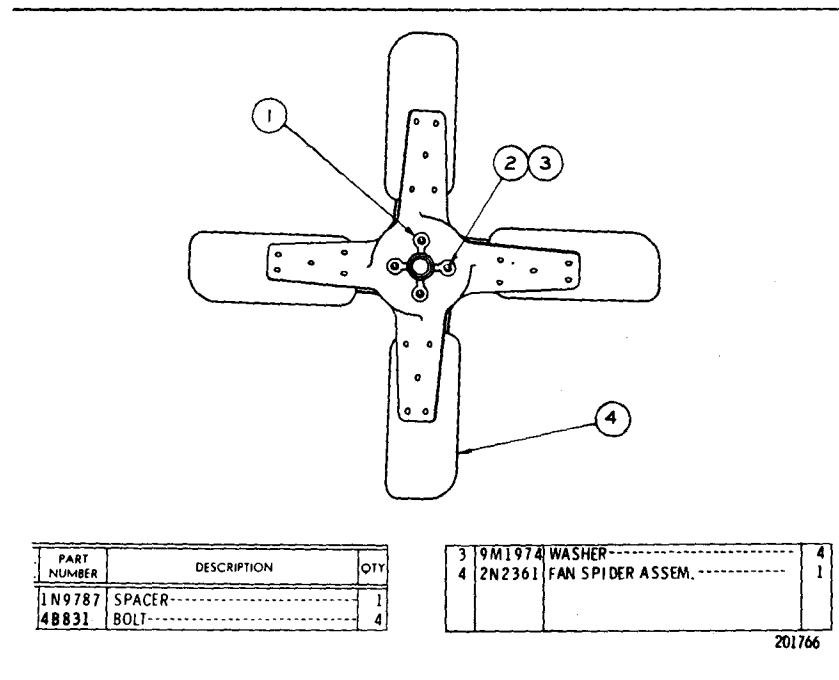
6N7691 FAN DRIVE PULLEY ASSEMBLY
Part of 6N8622 and 7N6526 Fan Drive Groups shown on Pages 127 & 128



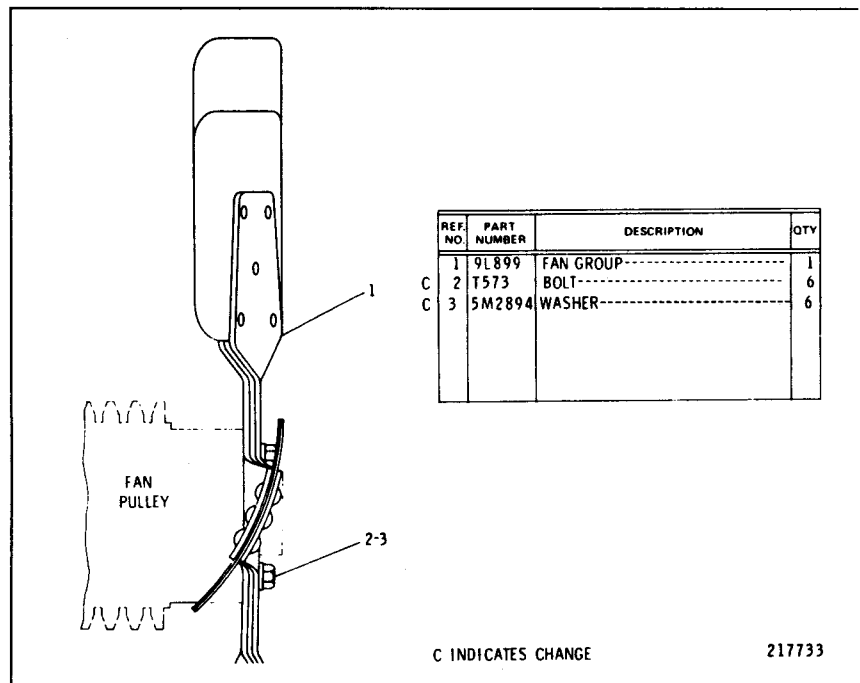
4N7438 FAN DRIVE GROUP
CANNOT BE USED WITH 4N7200 ACCESSORY DRIVE GROUP SHOWN ON PAGE 237
AN ATTACHMENT



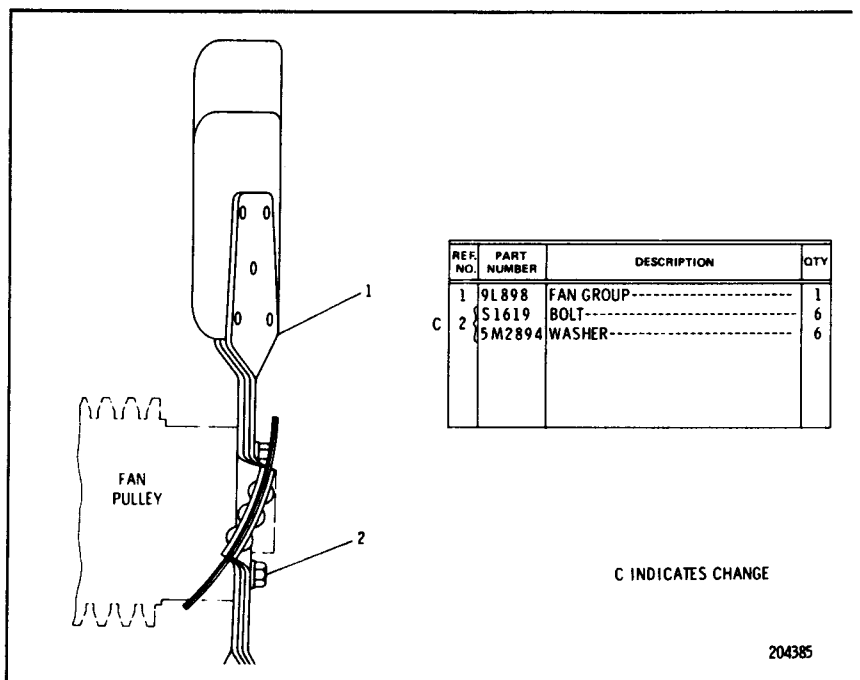
4N8673 BLOWER FAN GROUP—High Mounted
FOR USE WITH CUSTOMER SUPPLIED RADIATOR. REQUIRES FAN DRIVE
AN ATTACHMENT



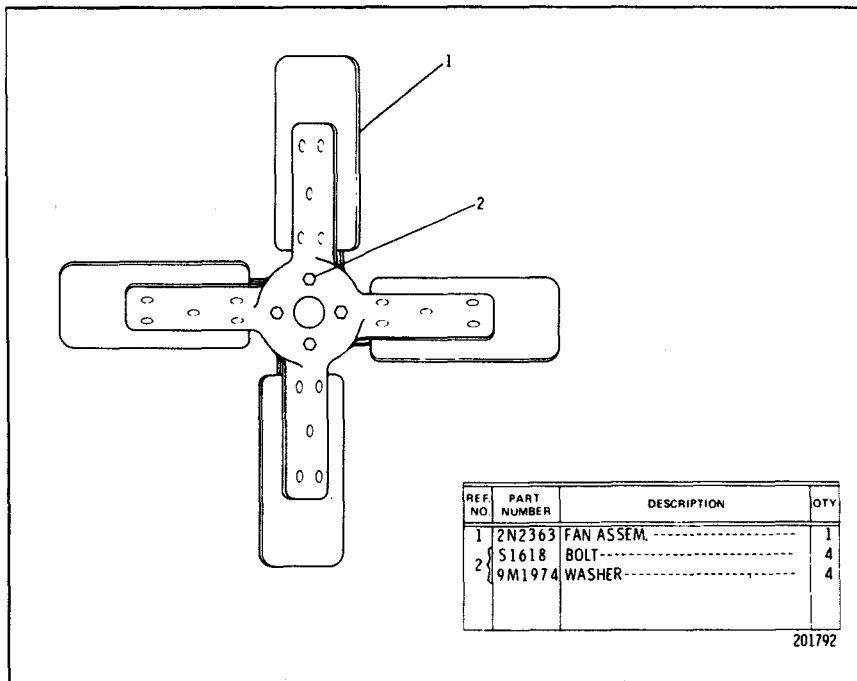
2N2858 BLOWER FAN GROUP—22" Diameter—Water Pump Mounted
FOR USE WITH 4N7200 RADIATOR



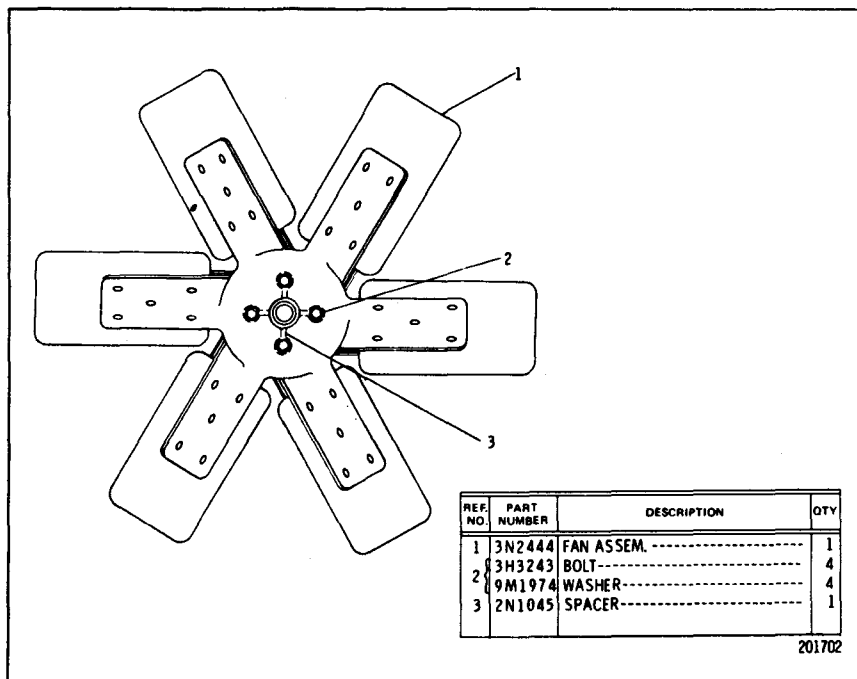
9L5510 SUCTION FAN GROUP—26" Diameter—High Mounted
FOR USE WITH 6N8622 FAN DRIVE GROUP SHOWN ON Page 127
AN ATTACHMENT



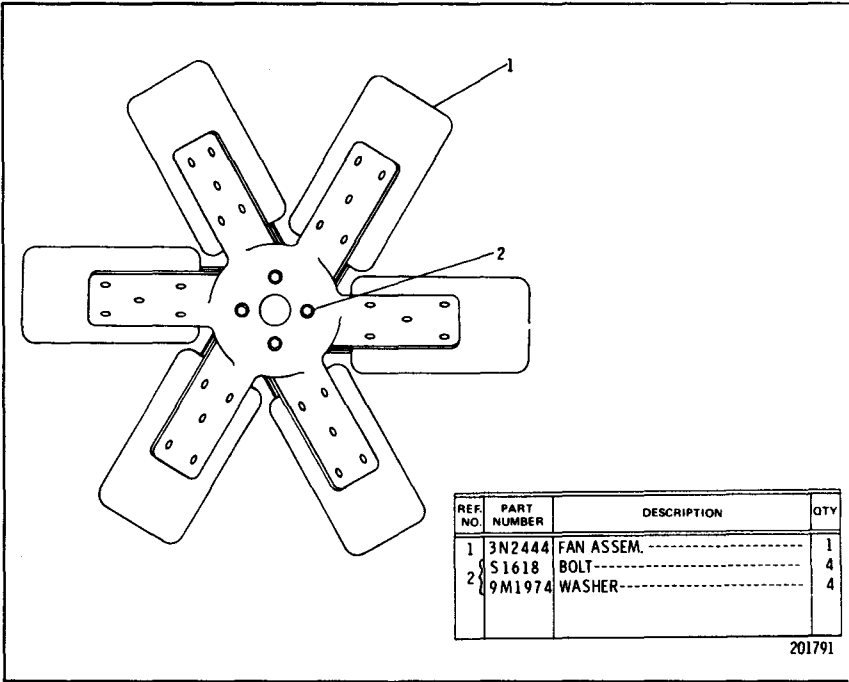
9L6051 SUCTION FAN GROUP—24" Diameter—Water Pump Mounted
FOR USE WITH 6N8622 FAN DRIVE GROUP SHOWN ON PAGE 127



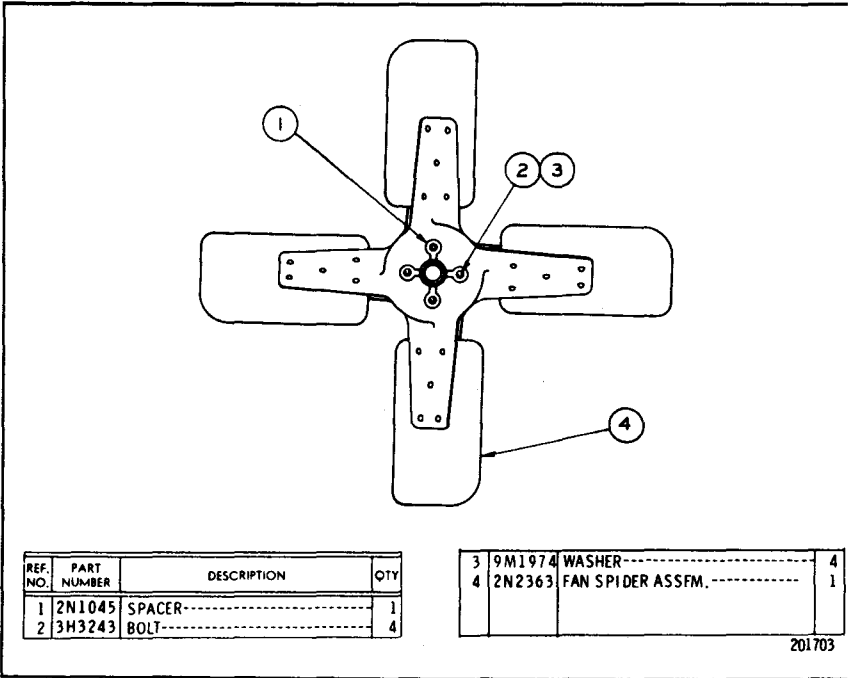
**4N8672 SUCTION FAN GROUP—22" Diameter—High Mounted
FOR USE WITH CUSTOMER SUPPLIED RADIATOR. REQUIRES FAN DRIVE
AN ATTACHMENT**



**3N2445 SUCTION FAN GROUP—22" Diameter—Water Pump Mounted
FOR USE WITH 4N7393 RADIATOR SHOWN ON PAGE 135. AN ATTACHMENT**



4N8671 SUCTION FAN GROUP—22" Diameter—High Mounted
FOR USE WITH CUSTOMER SUPPLIES RADIATOR. REQUIRES FAN DRIVE
AN ATTACHMENT



2N2458 SUCTION FAN GROUP—22" Diameter—Water Pump Mounted
FOR USE WITH 4N7393 RADIATOR SHOWN ON PAGE 135