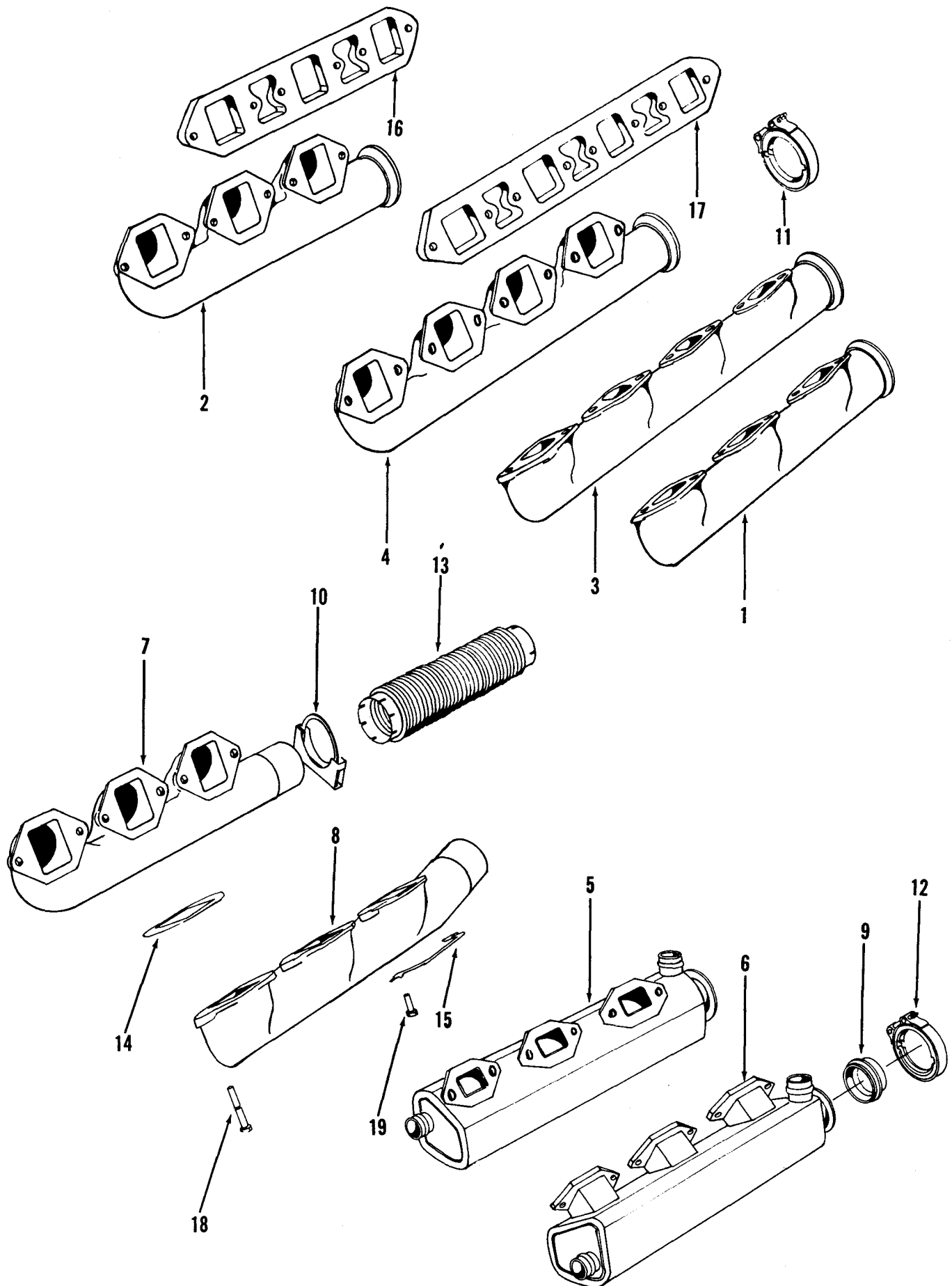


Group 11

exhaust system

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genuine **CUMMINS** parts



EXHAUST MANIFOLDS
Figure 1

EXHAUST MANIFOLD

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
		ADAPTER	V6	V8		
V6-200, V8-265	140616	Adapter, coupling (3" O.D.)	2	2	1	9
	135133	Adapter, coupling (4" O.D.)	2	2		
		BOLTS				
V6-200, V8-265	157610	Bolt, "U" (3" I.D.)	4	4	1	10
		BRACKETS				
VT8-370	157114	Bracket, turbocharger		1		
		CLAMP				
V6-200, V8-265, VT8-370	102408	Clamp, flexible connection (3" O.D.)	4	4	1	11
	135836	Clamp, flexible connection (4")	2	2	1	12
VT8-370	157506	Clamp, pipe		1		
	43828-B	Clamp, hose		16		
		CONNECTION				
V6-200, V8-265	157609	Connection, flexible exhaust (3" I.D. 14" long)	2	2	1	13
VT8-370	158335	Connection, cylinder head water outlet (L.B.)		1		
	158336	Connection, cylinder head water outlet (R.B.)		1		
	BM-78184	Connection, exhaust manifold to turbocharger (L.B.)		1		
	BM-78185	Connection, exhaust manifold to turbocharger (R.B.)		1		
		GASKET				
V6-200, V8-265, VT8-370	139677	Gasket, exhaust manifold	6	8	1	14
VT8-370	114819	Gasket, exhaust manifold to bracket		2		

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
HOSE			V6	V8	
VT8-370	107195	Hose		8	
LOCKPLATE					
V6-200, V8-265, VT8-370	139247	Lockplate, manifold to head	6	8	1 15
PIPE					
VT8-370	157268	Pipe, flexible connection		2	
	158321	Pipe, cylinder head to manifold (L.B.)		1	
	158322	Pipe, cylinder head to manifold (R.B.)		1	
	158317	Pipe, exhaust manifold to thermostat housing (L.B.)		1	
	158318	Pipe, exhaust manifold to thermostat housing (R.B.)		1	
	160065	Pipe, exhaust manifold to thermostat housing (R.B.)		1	
V6-200, V8-265	158197	Shield, heat (use with exhaust down, manifold, rear sump pan)	1	1	
SLEEVE					
VT8-370	157120	Sleeve, exhaust manifold		2	
SPACER					
V6-200	157192	Spacer, manifold (low mount)	2	1	16
	157191	Spacer, manifold (low mount)	2	1	17
HARDWARE					
	S-104	Capscrew 3/8-16, UNC-2A 2 1/4"		1	18
	S-112	Capscrew 3/8-16, UNC-2A 1"		1	19
	S-125	Capscrew 1/2-13, UNC-2A 2"			
	S-137	Cap screw 3/8-16, UNC-2A 2"			
	S-155	Capscrew 7/16-14, UNC-2A 1 1/2"			
	S-604	Lockwasher 3/8"			
	S-608	Lockwasher 1/2"			
	S-610	Lockwasher 7/16"			
	S-670	Lockwasher 17/32"			
	S-200	Nut 1/2"			

MUFFLERS AND SILENCERS

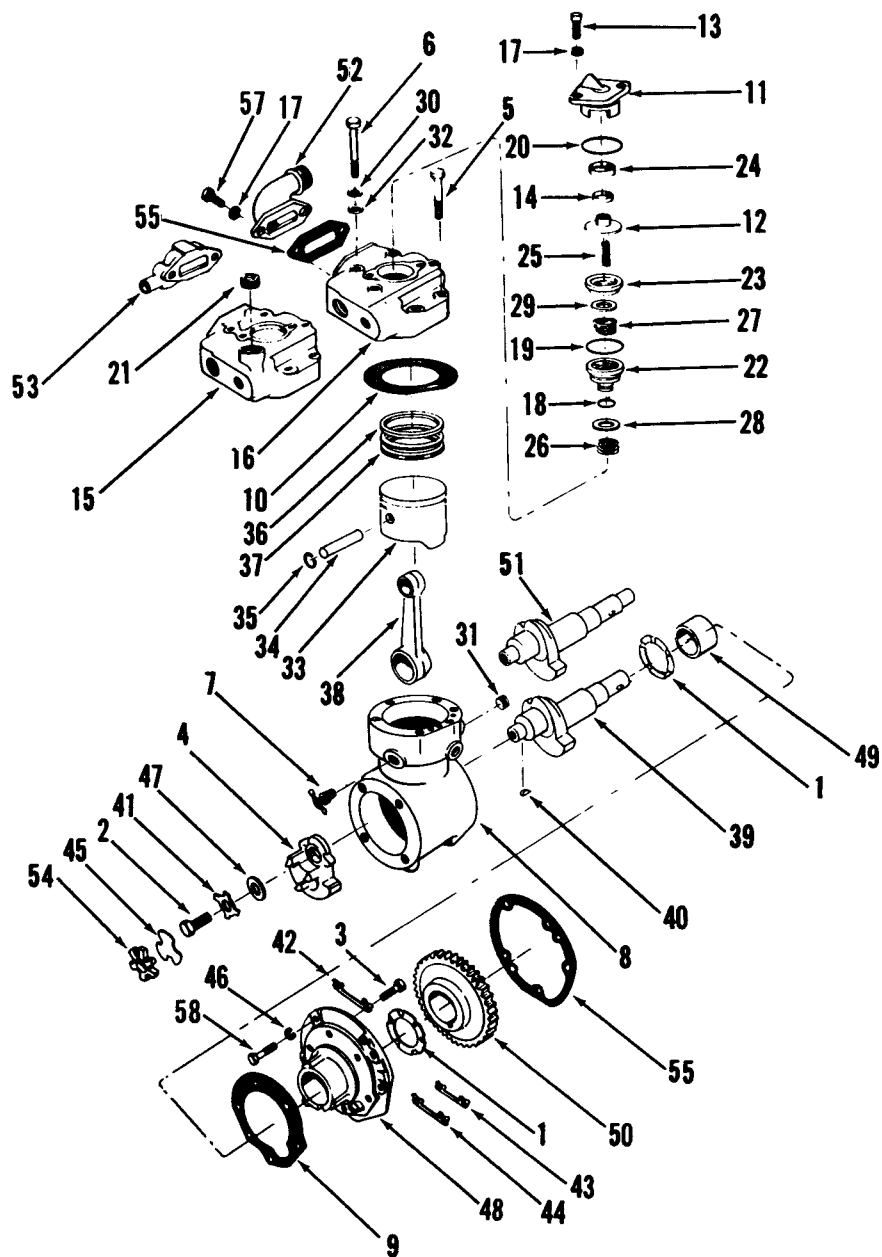
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Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
		BEARING	V6	V8		
V8-265	157084	Bearing, flange		2		
		COUPLING				
V8-265	157083	Coupling, flexible		1		
		GASKET				
VT8-370	100918	Gasket, silencer				
		MUFFLER				
V8-265	157082	Muffler		1		
		SILENCER				
VT8-370	144675	Silencer, air		1		
		HARDWARE				
	S-102	Capscrew		5/16-18, UNC-2A	1"	
	S-605	Lockwasher		5/16"		

Group 12

***air starting,
braking
and
steering***

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AIR COMPRESSOR
Figure 1

AIR COMPRESSOR

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
CUMMINS AIR COMPRESSOR																
V6-200	6	X								BM-75285	Compressor, air	1	1		Std.	12 cu. ft. less drive gear.
V8-265	8	X								BM-75284	Compressor, air	1	1		Std.	12 cu. ft. less drive gear.
V6-200	6	X								BM-75024	Compressor, air	1	1		Opt.	Same as BM-75285 except has 150139 gear.
V8-265	8	X								BM-75025	Compressor, air	1	1		Opt.	Same as BM-75284 except has 150139 gear.
V6-200	6	X								BM-75283	Compressor, air	1	1		Opt.	12 cu. ft. less drive gear, extended drive.
V8-265	8	X								BM-75282	Compressor, air	1	1		Opt.	12 cu. ft. less drive gear, extended drive.
V6-200	6	X								BM-74072	Compressor, air	1	1		Opt.	Same as BM-75283 except has 150139 gear.
V8-265	8	X								BM-74071	Compressor, air	1	1		Opt.	Same as BM-75282 except has 150139 gear.
V6-200	6									BM-76468	Compressor, air	1	1		Opt.	Same as BM-75024 except has 158435 body for use with Cummins air governor
V8-265	8									BM-76471	Compressor, air	1	1		Opt.	Same as BM-75025 except has 158435 body for use with Cummins air governor
V6-200	6									BM-78370	Compressor, air	1	1		Opt.	Same as BM-75024 except has 160072 body for use with Bendix Westinghouse governor mounted or Cummins air compressor.

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

AIR COMPRESSOR

Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
	AIR COMPRESSOR (CUMMINS) (12 CU.FT.)	V6 V8				AIR COMPRESSOR (CONT'D)	V6 V8		
	GROUP A								
I-75285	Compressor assembly, air (less gear)	1			130800	Ring, compression	2	2	1 36
I-75284	Compressor assembly, air (less gear)	1			130810	Ring, oil	1	1	1 37
30080	Bearing, thrust .088/.090	AR	1	1	143889	Rod, compressor	1	1	1 38
30081	Bearing, thrust .090/.092	AR	1	1	139850	Crankshaft	1	1	1 39
30082	Bearing, thrust .100/.102	AR	1	1	131969	Key, counterweight	1	1	1 40
30083	Bearing, thrust .092/.094	AR	1	1	117370	Lockplate, counterweight	1	1	1 41
S-193	Capscrew, counterweight	1	1	2	140259	Lockplate, front support to crankcase (long)	1	1	1 42
S-103-D	Capscrew, support to crankcase	6	6	1 3	140276	Lockplate, front support to crankcase (short)	1	1	1 43
.25349	Counterweight	1	1	4	140277	Lockplate, front support to crankcase (medium)	1	1	1 44
3M-71315	Crankcase and head assembly	1	1		130258	Plate, coupling retainer	1	1	1 45
3M-66014	Crankcase and head assembly	1	1		S-604	Lockwasher, bearing support to crankcase	6	6	1 46
S-104	Capscrew, head to crank- case	2	2	1 5	136403	Plate, name	1	1	1
S-102-D	Capscrew, head to crank- case	4	4	1 6	S-2267	Screw, drive	2	2	1
107947	Cock, drain	1	1	1 7	117267	Washer, counterweight	1	1	1 47
144529	Crankcase	1	1	1 8	BM-71357	Support, air compressor (140078)	1	1	1 48
117077	Gasket, support to crank- case	1	1	1 9	144680	Bushing, support	1	1	1 49
129059	Gasket, head to crankcase	1	1	1 10		GROUP B			
BM-73031	Head, compressor	1	1			Same as Group A except:			
BM-72324	Head, compressor	1	1		BM-76468	Compressor, air	1		
145086	Body, unloader valve	1	1	1 11	BM-76471	Compressor		1	
145087	Cap, unloader valve	1	1	1 12	BM-76466	Head, compressor	1		
S-102	Capscrew, unloader body to head	2	2	1 13	BM-76469	Head, compressor		1	
139400	Guide, unloader cap	1	1	1 14	158435	Body, unloader valve	1	1	
145204	Head, compressor	1	1	1 15					
127807	Head, compressor	1	1	1 16		GROUP C			
S-605	Lockwasher, unloader body to head	2	2	1 17		Same as Group A except:			
128085	"O" ring, intake valve seat	1	1	1 18	BM-78370	Compressor, air	1		
128086	"O" ring, exhaust valve seat	1	1	1 19	BM-78371	Head, compressor	1		
128087	"O" ring, unloader valve	1	1	1 20	160072	Body, unloading valve	1		
S-995	Plug, pipe	1	1	1 21					
144714	Seat, exhaust valve	1	1	1 22		GROUP D			
145028	Seat, intake valve	1	1	1 23		Same as Group A except:			
127936	Seal, plunger	1	1	1 24					
150631	Spring, plunger	1	1	1 25					
128080	Spring, exhaust valve	1	1	1 26					
144308	Spring, intake valve	1	1	1 27					
127940	Valve, exhaust	1	1	1 28	BM-75024	Compressor, air	1		
144948	Valve, intake	1	1	1 29	BM-75025	Compressor, air		1	
S-604	Lockwasher, head to crankcase	6	6	1 30	150139	Gear, drive	1	1	50
S-908	Plug, pipe	2	2	1 31					
S-602	Lockwasher	6	6	1 32					
BM-62550	Piston	1	1	1					
142470	Piston	1	1	1 33					
119810	Pin, piston	1	1	1 34					
119859	Ring, piston pin snap	2	2	1 35					
BM-62480	Ring set, piston	1	1						

PARTS INDENTED ARE INCLUDED IN THE PART UNDER WHICH THEY ARE INDENTED

AIR COMPRESSOR

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Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		V6 V8							
	(CONT'D)								
	GROUP E								
	Extended Crankshaft								
	Same as Group A except:								
BM-74072	Compressor, air	1							
BM-74071	Compressor, air	1							
BM-75283	Compressor, air	1							
BM-75282	Compressor, air	1							
146980	Crankshaft	1	1	1	51				
150139	Gear, drive	1	1	1	50				

PARTS INDENTED ARE INCLUDED IN THE PART UNDER WHICH THEY ARE INDENTED

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
ADAPTER			V6	V8	
V6-200, V8-265	159079	Adapter, drive (To drive an air conditioning compressor from extended crankshaft)	1	1	
CRANKSHAFT					
V6-200, V8-265	139850	Crankshaft	1	1	39
	139851	Crankshaft (.010" U/S)	1	1	39
	139852	Crankshaft (.020" U/S)	1	1	39
	146980	Crankshaft (Extended)	1	1	51
	146981	Crankshaft (Extended) (.010" U/S)	1	1	51
	146982	Crankshaft (Extended) (.020" U/S)	1	1	51
CLAMP, HOSE					
V6-200, V8-265	43828-A	Clamp, hose	2	2	
CONNECTION, AIR					
V6-200, V8-265	127949	Connection, air inlet	1	1	52
	155313	Connection, air inlet (Std.)	1	1	53
	155787	Connection, air inlet (use with alcohol evaporator)	1	1	
COUPLING					
V6-200, V8-265	109859	Coupling, fuel pump, rubber	1	1	54
DOWEL					
V6-200, V8-265	102957	Dowel, support (Diamond)	1	1	
	69562	Dowel, support (Master)	1	1	
GASKET					
V6-200, V8-265	139846	Gasket, rear support to gear cover	1	1	
	139845	Gasket, front support to gear cover	1	1	55
	103005	Gasket, fuel pump to compressor	1	1	
	127950	Gasket, connection and air cleaner	1	1	56
HOSE					
V6-200, V8-265	155789	Hose, inlet connection to air intake connection	1	1	
	155790	Hose, inlet connection to air intake connection	1	1	

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
PISTON			V6	V8	
V6-200, V8-265	BM-62550	Piston (Std.)	1	1	
	142470	Piston (Std.)	1	1	1 33
	BM-62551	Piston (.010)	1	1	
	142471	Piston (.010)	1	1	1 33
	BM-62552	Piston (.020)	1	1	
	142472	Piston (.020)	1	1	1 33
	BM-62553	Piston (.030)	1	1	
	142473	Piston (.030)	1	1	1 33
RING					
V6-200, V8-265	BM-62480	Ring set, piston	1	1	
	130800	Ring, compression	2	2	1 36
	130810	Ring, oil	1	1	1 37
	BM-62481	Ring set, piston (.010)	1	1	
	130801	Ring, compression (.010)	2	2	1 36
	130811	Ring, oil (.010)	1	1	1 37
	BM-62482	Ring set, piston (.020)	1	1	
	130802	Ring, compression (.020)	2	2	1 36
	130812	Ring, oil (.020)	2	2	1 37
	BM-62483	Ring set, piston (.030)	1	1	
	130803	Ring, compression (.030)	2	2	1 36
	130813	Ring, oil (.030)	1	1	1 37
SEAL,OIL					
V6-200, V8-265	146909	Seal, oil (2 3/8" O.D.) Use with extended shaft	1	1	
	140896	Seal, oil (2 1/2" O.D.) Use with extended shaft	1	1	
SUPPORT					
V6-200, V8-265	BM-78027	Support, air compressor (154911)	1	1	
	BM-71356	Support, air compressor, rear (139915)	1	1	
	BM-74038	Support, air compressor, rear (147440) (Use with extended crankshaft) (Supports illustrated with gear covers)	1	1	
	144800	Bushing, support	1	1	1 49

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
V6-200, V8-265	HARDWARE		V6	V8	
	S-1002-A	Body, flexible			
	S-983	Bushing, reducer			
	S-921-D	Bushing, reducer			
	S-102	Capscrew 5/16-18, UNC-2A 1"		1	57
	S-103-D	Capscrew 3/8-16, UNC-2A 1 1/4"		1	3
	S-106-A	Capscrew 5/16-18, UNC-2A 1 3/4"		1	58
	103009	Capscrew 7/16-14, UNC-2A 1 1/4"			
	S-1005-A	Elbow			
	S-604	Lockwasher 3/8"		1	46
	S-605	Lockwasher 5/16"		1	17
	REPAIR KIT				
	VALVE MECHANISM KIT				
	BM-73017	Kit, valve mechanism	1	1	
	145087	Cap, unloader	1	1	
	139400	Guide, unloader cap	1	1	
	128085	"O" ring, intake valve seat	1	1	
	128086	"O" ring, exhaust valve seat	1	1	
	128087	"O" ring, unloader valve	1	1	
	144714	Seat, exhaust valve	1	1	
	145028	Seat, intake valve	1	1	
	127936	Seal, packing	1	1	
	150631	Spring, unloader valve	1	1	
	128080	Spring, exhaust valve	1	1	
	144308	Spring, intake valve	1	1	
	127940	Valve, exhaust	1	1	
	144948	Valve, intake	1	1	
	VALVE REPAIR KIT				
	BM-72346	Kit, valve repair	1	1	
	128085	"O" ring, intake valve seat	1	1	
	128086	"O" ring, exhaust valve seat	1	1	
	128087	"O" ring, unloader valve	1	1	
	127936	Seal, packing	1	1	
	150631	Spring, unloader valve	1	1	
	128080	Spring, exhaust valve	1	1	
	144308	Spring, intake valve	1	1	
	127940	Valve, exhaust	1	1	
	144948	Valve, intake	1	1	

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
AIR CLEANER			V6	V8	
	146990	Cleaner, air compressor		1	
	155068	Bracket, cleaner		1	
	155066	Cover, cleaner		1	
	155065	Element, cleaner		1	
	155067	Gasket, cleaner		1	
	S-295	Nut, wing		1	
ALCOHOL EVAPORATOR					
	BM-64777	Valve, alcohol evaporator	1	1	
	135450	Body, valve	1	1	
	S-168-C	Capscrew, cover to body	2	2	
	135457	Cover, valve	1	1	
	135458	Gasket, cover to body	1	1	
	S-600	Lockwasher, cover to body	2	2	
	135486	Plunger, valve	1	1	
	135479	Seal, valve	1	1	
	S-631	Washer, plain, cover to body	2	2	
	135368	Evaporator, valve	1	1	

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
		TUBE	V6	V8		
V6-200, V8-265	146972	Tube, water drain (supersedes BM-71311)	1	1		
	153312	Tube, water supply (supersedes BM-76124)	1	1		
V6-200	156108	Tube, air supply (From 154963 crossover to compressor) (supersedes BM-77488)	1			
	156116	Tube, air supply (From 154919 connection, R.B. to compressor) (supersedes BM-77492)	1			

AUXILIARY PUMP

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Engine Model	No. Cyl.	Engine Application									Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G								
												STEERING PUMP					
V6-200,	6	X									148694	Pump, Vickers	1			Opt.	
V8-265	8	X									148694	Pump, Vickers	1			Opt.	

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
ADAPTER					
V6-200, V8-265	156820	Adapter, rear cover to direct driven steering pump	V6 1	V8 1	
BELTS					
V6-200, V8-265	155339	Belt, drive (For Vickers V210 8W3 B-E)	2	2	
	104650	Belt, drive (pump mounted over air compressor) (Use with 155797 pulley)	2	2	
	155339	Belt, drive (pump mounted over air compressor) (Use with 155945 pulley)	2	2	
BRACKET					
V6-200, V8-265	155798	Bracket, pump (For Vickers V210 8W 3 B-E)	1	1	
	148692	Bracket, Vickers pump	1	1	
	155798	Bracket, pump (mounted over air compressor)	1	1	
COUPLING					
V6-200, V8-265	154913	Coupling, drive (splined) (direct driven pump)	1	1	
	156821	Coupling, half (direct driven pump)	1	1	
GASKET					
V6-200, V8-265	154916	Gasket, pump to adapter (direct driven pump)	1	1	
	156819	Gasket, adapter (direct driven pump)	1	1	

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		PLATE	V6	V8	
V6-200, V8-265	148691	Plate, Vickers pump	1	1	
	159570	Plate, Vickers pump (VTM27-LI)	1	1	
		PULLEYS			
V6-200,	155797	Pulley, pump, 6" O.D., driven, (Vickers V210-8W-3 B-E) (mounted above air compressor)	1	1	
	155945	Pulley, pump, 9" O.D., driven, (Vickers V210-8W-3 B-E) (mounted above air compressor)	1	1	
	BM-74437	Pulley, pump, drive (148693) (use with 148694 pump)	1	1	
	BM-77013	Pulley, pump, drive (157649) (7" O.D.) (mounted above air compressor)	1	1	
	BM-77128	Pulley, pump, drive (155796) (5" O.D.) (mounted above air compressor)	1	1	
	159568	Pulley, pump, driven, (Vickers V7M27-LI and Tecumseh HA-850 air conditioning compressor)	1	1	
	BM-	Pulley, pump, drive (159569) (Vickers V7M-27-LI and Tecumseh HA-850 air conditioning compressor)	1	1	
		SNAP RING			
V6-200, V8-265	108739	Ring, snap (direct driven pump)	2	2	
		SPACER			
V6-200, V8-265	155799	Spacer, Vickers pump (Vickers V210-8W-3 B-E)	1	1	
		SUPPORTS			
V6-200,	159574	Support, hydraulic pump (Vickers VTM27-LI)	1	1	

Group 13

***electrical
equipment***

you own the best . . . repair with the best!

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CUMMINS

parts

ELECTRICAL EQUIPMENT

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							

Electrical Equipment is not manufactured by the Cummins Engine Company, Inc. Complete service for electrical equipment may be obtained from the manufacturers, The Delco-Remy Company at Anderson, Indiana, or the Leece-Neville Company at Cleveland, Ohio, or from their service stations. Address of nearest service station may be obtained from the manufacturer.

ALTERNATOR AND GENERATOR																
V6-200, V8-265	6,8	X								157869	Alternator	1				12 volt, 85 amp. negative ground, short hub design. DR-1117090
										142198	Alternator	1				24 volt, 50 amp. LN-A001-2033-AA
										138953	Alternator	1				12 volt, 100 amp. LN-A001-2052-AA
										156554	Alternator	1				12 volt, 60 amp. negative ground. DR-1117078
V8-370	8							X		160796	Alternator	1				32 volt, 30 amp. DR-1117097
VT8-370	8							X		157040	Alternator	1			Std.	12 volt, 55 amp. negative ground. "Delcotion" DR-1117753
V6-200, V8-265	6,8	X		X						43813	Generator	1			Std.	12 volt, 50 amp. LN-G001-2456-GB
										43302	Generator	1				12 volt, 50 amp. DR-1106822
										140615	Generator	1				12 volt, 160 amp. DR-1117606

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

ELECTRICAL EQUIPMENT

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Engine Model	No. Cyl.	Engine Application										Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
V6-200, V8-265	6,8	X											REGULATOR					
												42796	Regulator	1				12 volt, 50 amp. LN-R001-3038-RC or 3038 RB 6
												42570-1	Regulator	1				12 volt, 50 amp. DR-1118880
												149225	Regulator	1				Transistor voltage. DR-9000553
												157041	Regulator	1				12 volt, 55 amp. negative ground, use with 157040 alternator. DR-1119500

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

ELECTRICAL EQUIPMENT

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G		STARTING MOTOR					
V6-200 V8-265	6,8	X								121609	Motor, starting	1				12 volt, high output, Sprag drive. DR-1114055
										147333	Motor, starting	1				12 volt, high output, Sprag drive. DR-1114090
										157876	Motor, starting	1				12 volt, high output. DR-1114058
										117248	Motor, starting	1				24 volt, Bendix drive. DR-1113703
										135161	Motor, starting	1				24 volt, Sprag drive. DR-1113872
										135163	Motor, starting	1				24 volt, Sprag drive. DR-1113851
										42586	Motor, starting	1				24 volt, Dyer drive. DR-1113778
										119386	Motor, starting	1				24 volt, Dyer drive. DR-1113709
										126405	Motor, starting	1				24 volt, Dyer drive. DR-1113823
										43604	Motor, starting	1				24/32 volt, Bendix drive. LN-M001-2432-MA
										121208	Motor, starting	1				32 volt, Bendix drive. DR-1113763
										121147	Motor, starting	1				32 volt, Sprag drive. DR-1113772
										156197	Motor, starting	1				Hydraulic.
										116585	Motor, starting	1				Air.
										43435	Motor, starting	1				Air. LN-3000-M
										129035	Motor, starting	1				Air. Ingersoll-Rand
VT8-370	8									147004	Motor, starting	1				Air. B-W
									X	157577	Motor, starting	1				DR-1114104

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

ELECTRICAL EQUIPMENT

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
											RELAY					
											Note: All Sprag and Dyer type starters require the proper relay if a key system is used and a Series parallel system is not used.					
V6-200, V8-265	6,8									145027	Relay	1				12 volt
										146457	Relay	1				24 volt
										146458	Relay	1				32 volt
										149226	Relay, continuous	1				Use with 12 volt, self-rectified, negative ground alternator.
										159110	Relay, control	1				

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

ELECTRICAL EQUIPMENT

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G		SWITCH					
V6-200, V8-265	6,8	X								102846	Switch, key	1				
										119898	Switch	1				Series-parallel
VT8-370	8							X		160567	Switch	1				Magnetic- DR-1114224

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
PULLEYS																
V6-200, V8-265	6,8									140519	Pulley, generator (low mount fan) (Std.)	1				
										157408	Pulley, generator (low mount fan, 2:1 drive for 142198, 24 volt alternator to produce 20 amp. output at engine idle speed)	1				
										141856	Pulley, generator (high mount fan)	1				
										156125	Pulley, generator (high mount fan)	1				
										158462	Pulley, alternator (high mount fan, use with Freon air conditioner)	1				
										159117	Pulley, generator (Use with 140615 generator mounted inside the Vee)	1				
										121926	Pulley, generator driven (high mount fan) (Std. CI)	1				
										157185	Pulley, generator drive (high mount fan (Std. CI)	1				
VT8-370	8									159232	Pulley, alternator	1				
										160948	Pulley, alternator (For 160796 alternator)	1				

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
V6-200, V8-265		BELTS	V6	V8	
	123818	Belt, generator (low mount fan)	1	1	
	155339	Belt, generator (high mount fan) (Std. CI)		1	
	69401	Belt, alternator (high mount fan, 12.60 fan center)	1	1	
	110896	Belt, alternator (high mount fan, 12 volt, 85 amp. or 12 volt, 55 amp. short hub, 19.16" to 20" fan center)	1	1	
	111724	Belt, alternator (high mount fan 16.18", 19" to 20" fan center)	1	1	
	111727	Belt, alternator (high mount fan, 12 volt, 50 amp. short hub)	1	1	
	112202	Belt, gnerator (high mount fan)	1	1	
	124928	Belt, generator (high mount fan, 12 volt, 50 amp. short hub, 19.16" fan center)	1	1	
	126597	Belt, alternator (high mount fan, 12 volt, 50 amp.)	1	1	
	129592	Belt, alternator (high mount fan, 12 volt, 85 amp. short hub, 17.80" fan center)	1	1	
	132010	Belt, generator (high mount fan, 12 volt, 50 amp. short hub, 20" fan center)	1	1	
	134813	Belt, alternator (high mount fan, 14.74" fan center)	1	1	
	147920	Belt, alternator (high mount fan, 12 volt, 85 amp. short hub, 19.16" fan center)	1	1	
	155086	Belt, generator (high mount fan, 12.60" fan center)	1	1	
	158469	Belt, generator (high mount fan)	1	1	
VT8-370	139657	Belt, alternator		1	

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		BRACKET	V6	V8	
V6-200, V8-265	154376	Bracket, generator (low mount fan) (Std.)	1	1	
	157835	Bracket, generator (high mount fan) (Std. CI)			
	154902	Bracket, generator (high mount fan)	1	1	
	156123	Bracket, generator (high mount fan)	1	1	
	158302	Bracket, generator (high mount fan)	1	1	
	158476	Bracket, generator (high mount fan)	1	1	
	159104	Bracket, generator (high mount fan)	1	1	
	161040	Bracket, alternator (high mount fan) (For 144281, 12 volt, 105 amp.)	1	1	
	154527	Bracket, alternator (high mount fan)	1	1	
	154587	Bracket, alternator (high mount fan)	1	1	
	155698	Bracket, alternator (high mount fan) (for 157869 12 volt, 85 amp. alternator)	1	1	
	156431	Bracket, alternator (high mount fan)	1	1	
	156828	Bracket, alternator (high mount fan)	1	1	
	156829	Bracket, alternator (high mount fan)	1	1	
	158303	Bracket, alternator (high mount fan)	1	1	
	158473	Bracket, alternator (high mount fan)	1	1	
VT8-370	160061	Bracket, alternator (Std.)		1	
	160549	Bracket, alternator (For 160796 alternator)		1	
	154638	Bracket, generator adjusting link (low mount fan)	1	1	
	155079	Bracket, generator adjusting link (high mount fan)	1	1	
	156129	Bracket, generator adjusting link (high mount fan)	1	1	
	159105	Bracket, generator adjusting link (high mount fan) (To mount 140615 generator inside the Vee. Drives with (2) belts from crankshaft pulley)	1	1	

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		LINK	V6	V8	
V6-200, V8-265	154637	Link, generator adjusting (low mount fan) (Std.)	1	1	
	157856	Link, generator adjusting (high mount fan) (Std. CI)		1	
	154378	Link, generator adjusting (high mount fan, 19.16" to 20" fan center)	1	1	
	156830	Link, alternator adjusting (high mount fan, 55 amp. alternator)	1	1	
	156831	Link, alternator adjusting (high mount fan, 85 amp. alternator) (short)	1	1	
	156832	Link, alternator adjusting (high mount fan, 85 amp. alternator) (long)	1	1	
	158306	Link, generator adjusting (high mount fan)	1	1	
	158470	Link, alternator adjusting (high mount fan)	1	1	
	158836	Link, alternator adjusting (high mount fan, mounts to front of L.B. intake manifold)	1	1	
VT8-370	160062	Link, alternator adjusting (Std.)		1	
	160600	Link, alternator adjusting		1	

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
HARDWARE					
	S-112	Capscrew 3/8-16, UNC-2A 1"			
	S-137	Capscrew 3/8-16, UNC-2A 2"			
	S-145	Capscrew 1/2-13, UNC-2A 1 1/4"			
	S-155	Capscrew 7/16-14, UNC-2A 1 1/2"			
	S-173-A	Capscrew 5/8-11, UNC-2A 2 1/4"			
	S-174-B	Capscrew 3/8-16, UNC-2A 1 3/8"			
	106069	Capscrew 7/16-14, UNC-2A 2"			
	153581	Capscrew 5/8-11, UNC-3A 2"			
	153582	Capscrew 5/8-11, UNC-3A 2 1/2"			
	158250	Capscrew 5/8-11, UNC-3A 1 3/4"			
	S-604	Lockwasher 3/8"			
	S-605	Lockwasher 5/16"			
	S-200	Nut 1/2"			
	S-231	Nut 7/16"			

MISCELLANEOUS AND MOUNTING PARTS13.0 /
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Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
		FAN AND BAFFLE	V6	V8		
V6-200, V8-265	42568	Fan, generator	1	1		
VT8-370	160735	Fan, alternator (For 160796 alternator)		1		

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
V6-200, V8-265	SPACER		V6	V8	
	140106	Spacer, starting motor (.8" thick)	1	1	
	157100	Spacer, starting motor (.5 " thickness)	1	1	
SUPPORT					
V6-200, V8-265	159108	* Support, generator bracket	1	1	
	159114	* Support, adjusting link	1	1	
* Use with 140615 generator mounted inside the Vee.					

ELECTRICAL APPLICATION INFORMATION

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Belts, Adjusting Links High Mounted Fans

Fan Belts Chart A

<u>Fan Centers</u>	<u>Fan Belts</u>	<u>Fan Centers</u>	<u>Fan Belts</u>
12.60	112202	17.80	* new
13.46	* new	19.16	159988
14.74	154593	19.66	new
16.18	124423	20.00	154377
		21.75	160376

Generator Belts, Links Chart B

<u>Fan Centers</u>	<u>Generator Belt</u>	<u>Alternator Belt</u>	<u>Adjusting Link</u>
12.60	155086	69401	156831
13.46	Not determined	111727	156831
14.74	" "	134813	156831
16.18	" "	111724	156832

Chart C

Chart D

Chart E

	<u>Gen. Belt</u>	<u>Adj. Link</u>	<u>Gen. Belt</u>	<u>Adj. Link</u>	<u>Gen. Belt</u>	<u>Adj. Link</u>
17.80	111727	154402				
19.60	111727	158306	124928	158306	147920	158306
19.66	111727	158306				
20.00	111727	158306	132010			

Chart F

Chart G

Chart H

Chart X

	<u>Gen. Belt</u>	<u>Alt. Belt</u>	<u>Adj. Link</u>	<u>Alt. Belt</u>	<u>D-R Part No.</u>	<u>Desc.</u>	<u>Cummins Part No.</u>
16.18	152257	111727	156407	111727	1117760	Positive grnd.-55A	None
17.18	70859	129592	156407	70859	1117761	" -62A	None
19.16	111724	110896	156408	110896	1117753	Negative grnd.-55A	157040
19.66	111724	110896	156408	110896	1117754	" -62A	None
20.00	111724	110896	156408	110896			

ELECTRICAL APPLICATION INFORMATION

Fan Brackets, Belts, Electrical Equipment

High Mounted Fan
12" to 16" Centers

Part Name	V6 or V8 12V, 50A Generator	V6 or V8 12V, 55A or 12V, 62A Alt. (D-R)	V6 or V8 12V, 85A D-R Alt.
Fan Bracket	154526	154526	154526
Fan Hub	BM-74769	BM-76456	BM-74769
Fan Belts	Chart "A"	Chart "A"	Chart "A"
Fan Ratio	1.0:1	1.0:1	1.0:1
Generator or Alternator	43302 or 43813	See "X"	157869
Generator Pulley	156125	139497	139497
Generator Bracket	154902	156828	156829
Adjusting Link	120269	156830	See Chart "B"
Adjusting Link Brkt.	155079	156129	156129
Generator Belt	Chart "B"	Chart "B"	Chart "B"

ELECTRICAL APPLICATION INFORMATION

Fan Brackets, Belts, Electrical Equipment

High Mounted Fan 16" to 20" Centers

Part Name	V6 or V8 12V, 50A Generator	V6-200 12V, 50A Generator Short hub design	V6-200 12V, 85A Alternator Short hub design	V8-265 12V, 50A Generator Short hub design	V8-265 12V, 85A Alternator Short hub design	V6 or V8 12V, 55A or 12V, 62A Alt. (D-R) Short hub
Fan Bracket	156122	158305	158305	158305	158305	158305
Fan Hub	BM-74769	BM-73285	BM-73285	BM-73285	BM-73285	BM-73285
Fan Belts	A	A	A	A	A	A
Fan Ratio	1.0:1	1.0:1	1.0:1	1.0:1	1.0:1	1.0:1
Generator or Alternator	43302 or 43813	43302 or 43813	157869	43302 or 43813	157869	"X"
Generator Pulley	156125	101077	139497	101077	139497	139497
Generator Bracket	156123	158302	158303	156396	156389	156431
Adjusting Link	C	D	E	156407	G	156408
Adjusting Link Bracket	156129	155079	155079	155079	155079	155079
Generator Belt	C	D	E	F	G	H

Group 15

***instruments
and
gauges***

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INSTRUMENTS AND GAUGES

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
SHAFTS			V6	V8	
V6-200, V8-265	154776	Shaft, flexible	1	1	
	154777	Shaft, flexible	1	1	
TACHOMETER					
V6-200, V8-265	146742	Tachometer (3500 R.P.M.)	1	1	
	154774	Tachometer and hourmeter (0-4000 R.P.M.) (records actual hours at engine speed 2323 R.P.M.)	1	1	
	158265	Tachometer and hourmeter (0-4000 R.P.M.) (records actual hours at engine speed 2566 R.P.M.)	1	1	

Group 16

*engine
mounting
and
adaptation*

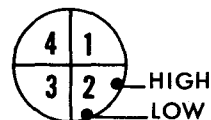
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FLYWHEEL, RING GEAR AND FLYWHEEL HOUSING

Owing to its adaption to so many installations, numerous flywheels and housings have been designed for the Cummins Diesel Engine. When ordering a flywheel to replace original equipment, follow these instructions:

1. Remove index hole cover from flywheel housing.
2. Rotate engine by means of barring crankshaft and/or fuel pump drive pulley until flywheel number appears in index hole.
3. Order flywheel by this number.
4. To be sure that the correct ring gear is supplied, specify engine rotation (right or left hand) and the type of electrical equipment used.
5. Give engine serial number.

The following listings contain a general tabulation of flywheels, ring gears, and flywheel housings for V6-200 and V8-265 series engines. Flywheels are listed under the drive couplings with which they are most commonly used. Flywheel housings for Cummins Diesels are built to modified S.A.E. standards. Looking at the flywheel end of the engine, starter quadrants are designated as:



FLYWHEEL HOUSING

Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
											FLYWHEEL HOUSING					
V6-200	6	X								157237	Housing, flywheel and gear	1			Std.	SAE No. 2 aluminum
V8-265	8	X								157237	Housing, flywheel and gear	1			Std.	SAE No. 2 aluminum
V6-200, V8-265	6,8									151777	Housing, flywheel	1			Opt.	SAE No. 2 aluminum, has provision for Allison MT-41L transmission
	6,8									156305	Housing, flywheel	1			Opt.	SAE No. 2 aluminum, outside starter capscrew enters from rear
	6,8									149221	Housing, flywheel and gear	1			Opt.	SAE No. 1 cast iron
	6,8									153182	Housing, flywheel and gear	1			Opt.	SAE No. 1 Use with Allison torque converter cast iron
	6,8									157287	Housing, flywheel and gear	1			Opt.	Use with 157286 flywheel cast iron
	6,8									152172	Housing, flywheel and gear	1			Opt.	For use with starter spacer, dipstick - SAE No. 1 - aluminum
	6,8									151583	Housing, flywheel and gear	1			Opt.	No starter spacer required - SAE No.1 aluminum
	6,8									157237	Housing, flywheel and gear	1			Std.	SAE No. 2 aluminum
	6,8									158589	Housing flywheel and gear	1			Opt.	SAE No. 1 aluminum
	6,8									158805	Housing, flywheel and gear	1			Opt.	SAE No. 2 aluminum outside starter capscrew enters from rear
	6,8									155014	Housing, flywheel and gear	1			Opt.	Aluminum
	6,8									158151	Housing, flywheel and gear	1			Opt.	SAE No. 1 Same as 149221 except aluminum

FLYWHEEL HOUSING

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
							</									

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
		BRACKET	V6	V8		
VT8-370	160056	Bracket, engine and gear		1		
	160057	Bracket, engine and gear		1		
		DOWEL				
VT8-370	69519	Dowel		4		
		CAPSCREW				
	S-113	Capscrew 1/2-13, UNC-2A 1 1/2"				
	S-173-A	Capscrew 5/8-11, UNC-2A 2 1/4"				
		LOCKWASHER				
	S-603	Lockwasher 5/8"				
	S-608	Lockwasher 1/2"				

FLYWHEEL AND RING GEAR

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Cummins Part No.	Obsolete Flywheels	Part Name	Clutch Model	Remarks
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NOTE: All Maximum inertia flywheels also require combination gear housing and flywheel housing.

ALLISON

BM-74908		Flywheel and gear	MT41L	
151732		Flywheel		
4797		Gear, ring		
155558		Flexplate	400 or 500 converters, 4000 Or 5000 transmission	

BORG - WARNER

149314		Flywheel	Borg-Warner C-1400 converter	
--------	--	----------	---------------------------------	--

BORG and BECK

147466		Flywheel	Borg and Beck, 13-E2, 2 plate	
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CAPITOL GEAR

BM-77585		Flywheel and gear	ZHE-HD 10700	
157155		Flywheel		
4853		Gear, ring		

CLARK

BM-151784		Flywheel and gear Flywheel	C-604 converter	
-----------	--	-------------------------------	-----------------	--

INGERSOLL - RAND

BM-76424		Flywheel and gear	Ingersoll-Rand	
154311		Flywheel	compressor drive ring	
4797		Gear, ring		
BM-77836		Flywheel and gear		
158259		Flywheel		
4797		Gear, ring		

INTERNATIONAL HARVESTER

BM-74901		Flywheel and gear	I.H.C. drop box	
152046		Flywheel		
4797		Gear, ring		

FLYWHEEL AND RING GEAR

Cummins Part No.	Obsolete Flywheels	Part Name	Clutch Model	Remarks
---------------------	-----------------------	-----------	-----------------	---------

LEYLAND

157286		Flywheel	Leyland 16" single plate	
--------	--	----------	--------------------------	--

LIPE ROLLWAY

BM-79445	BM-71240	Flywheel and gear	14-2DL	Maximum inertia
159428	143832	Flywheel		
4797		Gear, ring		
BM-	BM-72564	Flywheel and gear	14-2DL	Maximum inertia
159428	143832	Flywheel		
4853		Gear, ring		
BM-79689	BM-72638	Flywheel and gear	14-DL	Maximum inertia
159431	149486	Flywheel		
4853		Gear, ring		
BM-79688	BM-72645	Flywheel and gear		
159431	149486	Flywheel		
4797		Gear, ring		
BM-79556	BM-73141	Flywheel and gear	13-2ML	Maximum inertia
159426	149129	Flywheel	2 plate	
4797		Gear, ring		
BM-	BM-75861	Flywheel and gear	15-ML	Maximum inertia
159425	151294	Flywheel	2 plate	
4797		Gear, ring		
BM-	BM-75862	Flywheel and gear		
159425	151294	Flywheel		
4853		Gear, ring		
BM-74632		Flywheel and gear	13" 2 plate	
152277		Flywheel	(flat)	
4797		Gear, ring		
BM-78480	BM-72421	Flywheel and gear	14-2ML	Maximum inertia
159331	147280	Flywheel	2 plate	
4797		Gear, ring		
BM-79276	BM-73745	Flywheel and gear		
159331	159331	Flywheel		
4853		Gear, ring		
BM-79692	BM-74409	Flywheel and gear	15-2ML	Maximum inertia
159427	151705	Flywheel		
4797		Gear, ring		
BM-79693	BM-74410	Flywheel and gear		
159427	151705	Flywheel		
4853		Gear, ring		
BM-79691	BM-75317	Flywheel and gear	15 DPB	Maximum inertia
159429	152636	Flywheel		
4853		Gear, ring		
BM-79690	BM-75891	Flywheel and gear		
159429	152636	Flywheel		
4797		Gear, ring		

LONG MFG. CO.

BM-78573		Flywheel and gear	15-4A, 15 1/2" Spl	
156161		Flywheel	SAE No. 2 starter	
4797		Gear, ring	distance	

FLYWHEEL AND RING GEAR

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Cummins Part No.	Obsolete Flywheels	Part Name	Clutch Model	Remarks
MACK				
BM-77687		Flywheel and gear	CL-28	
156162		Flywheel		
4797		Gear, ring		
BM-		Flywheel and gear		
156162		Flywheel		
-----		Gear, ring		
BM-78683		Flywheel and gear	CL-50	
156163		Flywheel		
4797		Gear, ring		
BM-		Flywheel and gear		
156163		Flywheel		
-----		Gear, ring		
REO				
BM-76650		Flywheel and gear	PTO	
154579		Flywheel		
4797		Gear, ring		
ROCKFORD				
BM-79686	BM-71476	Flywheel and gear	14" RT	Maximum inertia
159430	149485	Flywheel		
4797		Gear, ring		
BM-79687		Flywheel and gear		
159430		Flywheel		
4853		Gear, ring		
TWIN DISC				
BM-75172		Flywheel and gear	SP-211	
153107		Flywheel	Clutch	
4797		Gear, ring		
BM-77585		Flywheel and gear	MG-508	
157155		Flywheel		
4853		Gear, ring		
BM-79567		Flywheel and gear	SP-211 or 1500 Series	
		(maximum rotative speed	Converters	
		3600 R.P.M.)		
157816		Flywheel		
4851		Gear, ring		
BM-		Flywheel and gear		
157816		Flywheel		
-----		Gear, ring		
BM-79578		Flywheel and gear	14.5 HC	
160633		Flywheel		
4797		Gear, ring		

MISCELLANEOUS AND MOUNTING PARTS

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		HARDWARE	V6	V8	
	S-105	Capscrew 3/8-16, UNC-2A 3 1/2"			
	S-120	Capscrew 3/8-16, UNC-2A 1 3/4"			
	S-199-A	Capscrew 3/8-16, UNC-2A 4"			
	S-199-B	Capscrew 3/8-16, UNC-2A 3 3/4"			
	138076	Capscrew, cadmium plated 5/8-18, UNF-2A 4"			
	138132	Capscrew, cadmium plated 3/4-16, UNF-2A 4"			
	138133	Capscrew, cadmium plated 3/4-16, UNF-2A 4 1/2"			
	140566	Capscrew			
	140567	Capscrew			
	154301	Capscrew			
	S-604	Lockwasher 3/8"			
	S-212-A	Nut 3/4"			
	S-218-A	Nut 5/8"			
	S-995	Plug 3/4"			
	S-602	Washer 13/32"			
	127455	Washer 3/4"			

MISCELLANEOUS AND MOUNTING PARTS

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Engine Model	Part Number	Part Name		No. Req.	Fig. No.	Ref. No.
ADAPTER			V6	V8		
V6-200, V8-265	143667	Adapter, flywheel to crankshaft (illustrated with gear cover)	1	1		
	155559	Adapter, flexplate (To adapt engines with S.A.E. No. 1 housing to Allison 400 and 500 series converters or 4000 and 5000 series transmissions)	1	1		
BRACKETS						
V6-200, V8-265	157602	* Bracket, flywheel housing	2	2		
	157603	/ Bracket, flywheel housing	2	2		
FLEXPLATE						
V6-200, V8-265	155558	Flexplate (use with 155559 adapter)	1	1		
MOUNTS						
V6-200, V8-265	127419	Mount, rubber	A	R		
	157604	* Mount, rubber	2	2		
RING						
V6-200, V8-265	155560	Ring, annular (To adapt engines with S.A.E. No. 1 housing to Allison 400 and 500 series converters or 4000 and 5000 series transmission)	1	1		

* Required for front engine mounting with 154371 front cover, rear engine mounting with a single (157604) (900 pound Lord) mount on each side of engine, and a single (127419) (500 pound Lord) mount for transmission tail support.

/ Required for front engine mounting with 154371 front cover, rear engine mounting with (2) 127419 (500 pound Lord) mounts on each side of engine and a single 127419 mount for transmission tail support.

FRONT ENGINE SUPPORT

16.03
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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
							</									

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
		HARDWARE	V6	V8	
V6-200, V8-265	69952	Capscrew 1/2-20, UNF-2A 2"			
	S-610	Lockwasher 7/16"			

REVERSE GEAR

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Engine Model	No. Cyl.	B	BI	CI	I	IP	P	M	G	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
REVERSE GEARS																
V6-200	6	X								156200	Gear, reverse and reduction	1				Starboard, without idler
V6-200	6	X								156201	Gear, reverse and reduction	1				Port with idler
VT8-370	8								X	157539	Gear, reverse	1				
TRANSMISSIONS																
V6-200	6	X								159144	Transmission (Fuller)	1				

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

Group 17

miscellaneous

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MISCELLANEOUS

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
GASKET SETS																
V6-200	6	X								BM-77406	Gasket set, engine	1			Std.	17.01
V8-265 VT8-370	8	X								BM-77407	Gasket set, engine	1			Std.	17.01
V6-200	6	X								BM-77408	Gasket set, cylinder head	1			Std.	17.02
V8-265 VT8-370	8	X								BM-77409	Gasket set, cylinder head	1			Std.	17.02
V6-200 V8-265 VT8-370	6,8									BM-68356 *	Gasket set, fuel pump	1				17.03

* Interchangeable between No. 1 and No. 2 design.

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

LIFTING BRACKET

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Engine Model	No. Cyl.	Engine Application								Part Number	Part Name	No. Req.	Fig. No.	Ref. No.	Use	Remarks
		B	BI	CI	I	IP	P	M	G							
V6-200,	6,8										LIFTING BRACKET					
										154643	Bracket, lifting	1				Opening for water flow (L.B.)
										158767	Bracket, lifting	1			Std.	Not machined (R.B.)
										154528	Bracket, lifting	1			Opt.	L.B. front
										156437	Bracket, lifting	1			Opt.	R.B. front
										158463	Bracket, lifting	1			Opt.	Use with air conditioner
					X					157836	Bracket, lifting	1			Std.	L.B.
										159578	Bracket, lifting	1			Opt.	L.B. Use with Vickers VTM27-LI pump
										159951	Hook, lifting bracket	1			Opt.	Use when clearance with cab floor board is required

COMPONENT PARTS FOR ASSEMBLIES ARE SHOWN ON THE FOLLOWING PAGES.

AIR CONDITIONER

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Engine Model	Part Number	Part Name	No. Req.	Fig. No.	Ref. No.
V6-200		BRACKET	V6	V8	
	158461	Bracket, conditioner	1		
	158472	Bracket, conditioner	1		
V6-200		SUPPORT			
	158468	Support, conditioner	1		

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PART NUMBER	DESCRIPTION	GROUP	PAGE	PART NUMBER	DESCRIPTION	GROUP	PAGE	PART NUMBER	DESCRIPTION	GROUP	PAGE
BM-54270	Filter	07.03	2	BM-71624	Bearing	01.02.1	3	BM-74075	Pulley	09.03	4
BM-57850	Casing	10.06	2			01.02.1	4	BM-74076	Pulley	09.03	4
BM-58237	Shell	07.03	2	BM-71630	Bearing	01.02.1	3	BM-74409	Flywheel	16.02	2
BM-59216	Filter	07.03	1			01.02.1	4	BM-74410	Flywheel	16.02	2
		07.03	2	BM-71631	Bearing	01.02.1	3	BM-74437	Pulley	09.03	4
BM-59481	Head	05.01	3			01.02.1	4			12.04.1	3
BM-60645	Spool	07.03	2	BM-71632	Bearing	01.02.1	3	BM-74441	Support	07.03	3
BM-60646	Element	07.03	1			01.02.1	4	BM-74445	Shell	07.03	3
		07.03	2	BM-71633	Bearing	01.02.1	3	BM-74516	Crankshaft	01.02	1
BM-60647	Filter	07.03	2			01.02.1	4			01.02	2
BM-60648	Filter	07.03	1	BM-71634	Bearing	01.02.1	3	BM-74518	Camshaft	01.07	1
		07.03	2			01.02.1	4			01.07	2
BM-62480	Ring	12.01	2	BM-71640	Ring	01.05.2	4	BM-74524	Drive	09.01	1
		12.01.2	5			01.05.2	5	BM-74574	Crankshaft	01.02	1
BM-62481	Ring	12.01.2	5	BM-71642	Ring	01.05.2	4			01.02	2
BM-62482	Ring	12.01.2	5			01.05.2	5	BM-74575	Camshaft	01.07	1
BM-62483	Ring	12.01.2	5	BM-71643	Ring	01.05.2	4	BM-74576	Camshaft	01.07	1
BM-62550	Piston	12.01	2			01.05.2	5			01.07	2
		12.01.2	5	BM-71644	Ring	01.05.2	5	BM-74632	Flywheel	16.02	2
BM-62551	Piston	12.01.2	5	BM-71650	Ring	01.05.2	4	BM-74634	Regulator	07.03.1	4
BM-62552	Piston	12.01.2	5			01.05.2	5	BM-74650	Cover	07.06	2
BM-62553	Piston	12.01.2	5	BM-71652	Ring	01.05.2	4	BM-74769	Hub	08.03	1
BM-64777	Valve	12.01.2	7			01.05.2	5			08.03	2
BM-65789	Shell	07.03	2	BM-71653	Ring	01.05.2	4			13.08	2
BM-66014	Crankcase	12.01	2			01.05.2	5	BM-74801	Tube	07.01.1	3
BM-67233	Connection	10.06.1	3	BM-71654	Ring	01.05.2	4	BM-74901	Flywheel	16.02	1
BM-67263	Connection	10.06	1			01.05.2	5	BM-74908	Flywheel	16.02	1
		10.06.1	3	BM-71660	Piston	01.05	1	BM-74909	Pulley	09.03	4
BM-68356	Gasket	17.00	1			01.05	2	BM-74957	Drive	09.01	1
BM-69973	Valve	05.01	2	BM-71662	Piston	01.05	1	BM-75024	Compressor	12.01	1
BM-71240	Flywheel	16.02	2			01.05	2			12.01	2
BM-71249	Rod	01.04	1	BM-71663	Piston	01.05	1	BM-75025	Compressor	12.01	1
BM-71290	Lever	03.01	2			01.05	2			12.01	2
BM-71291	Lever	03.01	1	BM-71664	Piston	01.05	1	BM-75093	Camshaft	01.07	1
		03.01	2			01.05	2			01.07	2
BM-71292	Lever	03.01	2	BM-72324	Head	12.01	2	BM-75095	Camshaft	01.07	1
BM-71293	Lever	03.01	1	BM-72346	Kit	12.01.2	6			01.07	2
		03.01	2	BM-72421	Flywheel	16.02	2	BM-75172	Flywheel	16.02	3
BM-71294	Lever	03.01	2	BM-72564	Flywheel	16.02	2	BM-75282	Compressor	12.01	1
BM-71295	Lever	03.01	1	BM-72638	Flywheel	16.02	2			12.01	3
		03.01	2	BM-72645	Flywheel	16.02	2	BM-75283	Compressor	12.01	1
BM-71311	Tube	12.01.2	8	BM-72913	Tube	07.01.1	3			12.01	3
BM-71315	Crankcase	12.01	2	BM-73017	Kit	12.01.2	6	BM-75284	Compressor	12.01	1
BM-71317	Tube	07.01.1	3	BM-73031	Head	12.01	2			12.01	2
BM-71346	Hub	08.03	1	BM-73141	Flywheel	16.02	2	BM-75285	Compressor	12.01	1
		08.03	2	BM-73285	Hub	08.03	1			12.01	2
BM-71347	Hub	08.03	1			08.03	2	BM-75286	Shaft	09.01	2
		08.03	2	BM-73405	Cover	07.06	2	BM-75287	Drive	09.01	1
BM-71356	Support	01.09.1	2	BM-73412	Tube	07.01.1	3	BM-75317	Flywheel	16.02	2
		09.01.1	3	BM-73414	Tube	07.01.1	3	BM-75818	Hub	08.03	1
		12.01.2	5	BM-73416	Tube	07.01.1	3			08.03	2
BM-71357	Support	12.01	2	BM-73432	Support	09.01	2	BM-75846	Filter	07.03	1
BM-71393	Gear	07.06	2	BM-73745	Flywheel	16.02	2			07.03	3
BM-71418	Shaft	03.01.2	4	BM-73750	Filter	07.03	1	BM-75861	Flywheel	16.02	2
BM-71425	Shaft	03.01.2	4			07.03	3	BM-75862	Flywheel	16.02	2
BM-71449	Filter	07.03	1	BM-73891	Hub	08.03	1	BM-75891	Flywheel	16.02	2
		07.03	2			08.03	2	BM-76055	Pump	07.06	1
BM-71620	Bearing	01.02.1	3	BM-74038	Support	01.09.1	2			07.06	2
		01.02.1	4			09.01.1	3	BM-76065	Tube	07.01.1	3
BM-71621	Bearing	01.02.1	3			12.01.2	5	BM-76066	Tube	07.01.1	3
		01.02.1	4	BM-74042	Pulley	09.03	4	BM-76067	Tube	07.01.1	3
BM-71622	Bearing	01.02.1	3	BM-74071	Compressor	12.01	1	BM-76106	Cover	03.01.1	3
		01.02.1	4			12.01	3	BM-76110	Tappet	04.01	1
BM-71623	Bearing	01.02.1	3	BM-74072	Compressor	12.01	1	BM-76111	Tappet	04.01	1
		01.02.1	4			12.01	3				

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3M-76114	Impeller	08.01	2	BM-77868	Camshaft	01.07	1	BM-79322	Piston	01.05	1
3M-76115	Pump	08.01	1			01.07	2			01.05	2
		08.01	2	BM-77900	Pulley	09.03	4	BM-79323	Piston	01.05	1
3M-76116	Tube	02.01.2	4	BM-78618	Pump	08.01	1			01.05	2
3M-76117	Gasket	02.01	1			08.01	2	BM-79324	Piston	01.05	1
3M-76118	Head	02.01	2	BM-78658	Pump	08.01	1			01.05	2
3M-76119	Head	02.01	1			08.01	2	BM-79340	Damper	01.02.2	5
3M-76124	Tube	12.01.2	8	BM-78669	Cartridge	05.01	3	BM-79345	Body	05.01	1
BM-76161	Pump	08.01	1	BM-78672	Cartridge	05.01	3	BM-79346	Body	05.01	1
		08.01	2	BM-78680	Pump	08.01	1	BM-79405	Crankshaft	01.02	1
BM-76201	Body	07.06	2			08.01	2			01.02	2
BM-76203	Pump	07.06	1	BM-78687	Cup	05.01	1	BM-79413	Damper	01.02.2	5
		07.06	2	BM-78000	Rod	01.04	1	BM-79445	Flywheel	16.02	2
BM-76340	Damper	05.01	1	BM-78016	Pump	08.01	1	BM-79518	Damper	01.02.2	5
BM-76342	Cover	03.01.1	3			08.01	3	BM-79553	Damper	01.02.2	5
BM-76378	Gear	07.06	2	BM-78027	Support	01.09.1	2	BM-79555	Hub	08.03	1
BM-76406	Gasket	02.01	1			09.01.1	3			08.03	2
BM-76407	Head	02.01	2			12.01.2	5	BM-79556	Flywheel	16.02	2
BM-76408	Head	02.01	1	BM-78054	Tube	08.11.1	3	BM-79557	Pump	08.01	1
3M-76424	Flywheel	16.02	1	BM-78129	Drive	09.01	1			08.01	2
BM-76431	Hub	08.03	1	BM-78184	Connection	11.01.2	2	BM-79567	Flywheel	16.02	3
		08.03	2	BM-78185	Connection	11.01.2	2	BM-79573	Crankshaft	01.02	1
BM-76435	Pump	08.01	1	BM-78268	Hub	08.03	1			01.02	2
		08.01	2			08.03	2	BM-79578	Flywheel	16.02	3
BM-76456	Hub	08.03	1	BM-78370	Compressor	12.01	1	BM-79600	Tube	07.01.1	3
		08.03	2			12.01	2	BM-79601	Tube	07.01.1	3
BM-76466	Head	13.08	2	BM-78371	Head	12.01	2	BM-79604	Tube	07.01.1	3
BM-76468	Compressor	12.01	2	BM-78414	Pump	08.01	1	BM-79686	Flywheel	16.02	3
		12.01	1			08.01	2	BM-79687	Flywheel	16.02	3
		12.01	2	BM-78416	Adapter	09.01.1	3	BM-79688	Flywheel	16.02	2
BM-76469	Head	12.01	2	BM-78421	Damper	01.02.2	5	BM-79689	Flywheel	16.02	2
BM-76471	Compressor	12.01	1	BM-78480	Flywheel	16.02	2	BM-79690	Flywheel	16.02	2
		12.01	2	BM-78488	Tube	08.10	1	BM-79691	Flywheel	16.02	2
BM-76546	Tube	07.01.1	3	BM-78499	Pulley	09.03	4	BM-79692	Flywheel	16.02	2
BM-76585	Crankshaft	01.02	1	BM-78564	Rotor	10.06	2	BM-79693	Flywheel	16.02	2
		01.02	2	BM-78573	Flywheel	16.02	2	BM-79865	Damper	01.02.2	5
BM-76650	Flywheel	16.02	3	BM-78588	Turbocharger	10.06	2				
BM-76861	Body	07.06	2	BM-78683	Flywheel	16.02	3				
BM-76877	Body	07.06	2	BM-78791	Filter	05.01	3				
BM-77013	Pulley	09.03	4	BM-78793	Filter	05.01	3				
		12.04.1	3	BM-78847	Pump	08.01	1				
BM-77128	Pulley	12.04.1	3			08.01	2				
BM-77404	Block	01.01	1	BM-78875	Camshaft	01.07	2				
		01.01	2	BM-78993	Hub	08.03	1				
BM-77405	Block	01.01	1			08.03	2				
		01.01	2	BM-79033	Tube	08.09.1	3				
BM-77406	Gasket	17.00	1	BM-79052	Drive	09.01	1				
BM-77407	Gasket	17.00	1	BM-79143	Pump	08.01	1				
BM-77408	Gasket	17.00	1	BM-79160	Rod	01.04	1	HS0402700MS	Hose	08.07.3	5
BM-77409	Gasket	17.00	1	BM-79200	Piston	01.05	1	HS0403000MS	Hose	08.07.3	5
BM-77488	Tube	12.01.2	8			01.05	2				
BM-77492	Tube	12.01.2	8	BM-79202	Piston	01.05	1				
BM-77585	Flywheel	16.02	1			01.05	2				
		16.02	3	BM-79203	Piston	01.05	1				
BM-77687	Flywheel	16.02	3			01.05	2				
BM-77717	Connection	08.07.1	2	BM-79204	Piston	01.05	1				
BM-77718	Connection	08.07.1	2			01.05	2				
BM-77834	Crankshaft	01.02	1	BM-79258	Injector	05.01	1				
		01.02	2	BM-79262	Injector	05.01	1				
BM-77836	Flywheel	16.02	1	BM-79276	Flywheel	16.02	2				
BM-77838	Hub	08.03	1	BM-79320	Piston	01.05	1				
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		16.02	2	68152	Clamp	08.07.3	4	100971	Pin	07.02	2
		16.02	3	68209	Gasket	08.09.1	2	100973	Dowel	01.01	2
4851	Gear	16.02	3	68210	Gasket	08.09.1	2			02.01.2	4
4853	Gear	16.02	1	68241	Electrode	08.10	1	100918	Gasket	11.02	1
		16.02	2	68270	Connection	08.01.2	4	101077	Pulley	13.08	3
		16.02	3	68365	Bushing	07.06	2	101264	Tube	03.01.2	5
8142	"O" Ring	05.01	3	68368	Spacer	08.08.1	3	101322	Cap	03.01.2	5
9221	Gasket	08.01.2	4	68568	Dowel	01.01	2	101494	Shim	10.06	2
		08.07.3	5			01.06.1	2	101499	Nut	03.01	2
20621	Cover	07.03	2	68675	Plug	08.08	2	101503	Washer	07.01.1	4
21036	Fan	08.02	1	68908	Lockplate	01.02.6	9	101754	"O" Ring	05.01	1
21601-A	Screw	08.11	2			01.07.2	4	102171	Capscrew	10.06	2
21601-H	Slinger	08.11	2			01.09.1	2	102408	Clamp	11.01.2	2
21601-R	Impeller	08.11	2			07.01.1	2	102660	Body	08.11	2
21731	Pump	08.11	1			07.06	2	102661	Bearing	08.11	2
		08.11	2			07.06.1	3	102664	Shaft	08.11	2
42568	Fan	13.07	5			10.06.1	3	102665	Ring	08.11	2
42570-1	Regulator	13.02	1	69171-1	Support	07.01.1	2	102846	Switch	13.05	1
42586	Starter	13.03	1	69236	Dowel	07.06	2	102912	Capscrew	10.06	2
42796	Regulator	13.02	1			07.06.1	3			10.06.1	3
43226-2	Screen	07.01.1	2	69246	Connection	08.01.2	4	102957	Dowel	12.01.2	4
43302	Generator	13.01	1	69318-A	Elbow	08.07.3	6	102974	Coupling	09.01	2
		13.08	2	69401	Belt	13.07	1	102975	Coupling	09.01	2
		13.08	3			13.08	1	103005	Gasket	12.01.2	4
43435	Starter	13.03	1	69465	Clamp	08.08.1	3	103009	Capscrew	12.01.2	6
43604	Starter	13.03	1	69519	Dowel	01.02.6	9	103023	Capscrew	08.10.1	2
43696-A	"O" Ring	02.01	2			16.01.1	4	103307	Plug	10.06	2
43765-A	Elbow	05.01	2	69562	Dowel	12.01.2	4	103502	Ring	09.01	2
43813	Generator	13.01	1	69751	Gasket	07.03	2	103535	Flange	08.09.1	2
		13.08	2	69866	Bearing	08.01	2	103808	Hose	10.04.1	3
		13.08	3	69901	Plug	07.03	2	104650	Belt	12.04.1	2
43828	Clamp	08.08.1	3	69911-A	Clamp	10.06.2	4	105073	Hanger	07.01.1	2
43828-A	Clamp	08.07.3	4	69952	Capscrew	16.03.1	2	105297	Locknut	09.01	2
		12.01.2	4	70183	Retainer	08.01	2	105594	Gasket	08.11	2
43828-B	Clamp	08.07.3	4	70186	Gasket	08.11.1	3	105598	Cover	08.11	2
		11.01.2	2	70188	Capscrew	07.03	3	105916	Strap	10.04.1	3
43828-C	Clamp	08.09.1	3	70189	Lockwasher	07.03	3	106069	Capscrew	07.03	2
		08.10	1	70194	Lockwasher	07.03	3			13.07	4
43828-D	Clamp	08.07.3	4	70223	Capscrew	07.03	3	106126	Adapter	10.04.1	3
		08.09.1	2			08.08	2	106276	Seal	08.03	2
60408-G	Dowel	01.02.6	9	70233	Washer	08.08	2	106322	Gasket	10.06.1	3
61554	Hose	08.07.3	5	70295	Plug	05.01	2	106391	Pin	03.01.2	5
62409	Gasket	05.01	1	70299	Nut	07.03	3	106833	Cleaner	10.04	1
62815	Shim	07.03	2	70459	Plug	02.01	2			10.04	2
		07.03.1	4	70467	Clip	05.01	2	106837	Element	10.04	2
63241-J	Hose	08.09.1	3	70468	Clip	05.01	2	107134	Shell	10.04	2
63241-L	Hose	08.10	1	70645	Dowel	01.01	2	107135	Cover	10.04	2
63495	Hose	08.07.3	5			01.06.1	2	107136	Gasket	10.04	2
63842	Washer	07.05.1	2	70662	Dowel	01.09.1	2	107137	Gasket	10.04	2
64015	Hose	10.01.2	4	70674	Dyna-seal	01.01	2	107195	Hose	11.01.2	3
64290-A	Screw	08.04.1	2	70704	Washer	05.01	1	107440	Nut	10.06.2	5
65798	Clamp	07.02	2	70760	Dowel	07.06	2	107460	Clamp	10.06.2	4
66079	Strap	10.04.1	3	70776	"O" Ring	05.01	1	107947	Cock	12.01	2
66440	Spacer	08.05	1	70859	Belt	13.08	1	107981	Cap	03.01.2	5
67211	Dowel	01.01	2	70879	Lockplate	01.09.1	2	108084	Cover	07.03	2
67282	Lockplate	03.01.2	4	70897	Nut	09.01	2	108186	Lockwire	04.01	2
67526	Washer	08.03	2					108467	Handle	07.02	2
67532	Nut	08.03	2					108468	Washer	07.02	2
67546	Washer	08.03	2					108469	Cover	07.02	2
67547	Gasket	08.03	2					108470	Bushing	17.02	2
								108471	Handle	03.01.2	5

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08473	Cover	03.01.2	5	116660	Ring	10.06	2	125349	Counter- weight	12.01	2
08474	Bushing	03.01.2	5	116759	Bearing	08.03	2	125740	Clamp	10.01.2	4
08475	Cover	03.01.2	5	117077	Gasket	12.01	2	125741	Hose	10.04.1	3
08707	Capscrew	01.06.1	2	117183	Screw	03.01.2	4	125780	Bearing	10.06	2
		01.09.1	2	117248	Starter	13.03	1	126405	Starter	13.03	1
		03.01.2	5	117267	Washer	12.01	2	126516	Bolt	05.01	3
		07.06	2	117370	Lockplate	12.01	2	126566	Flange	10.06.1	3
		07.06.1	3	117559	Lockplate	07.01.1	2	126597	Belt	13.07	1
		08.01.2	4	118347	Connection	10.06.2	4	126600	Bushing	01.04	2
		08.07.3	6	118349	Plug	10.06	2	127316	Washer	01.01	2
		10.06.2	5	118350	"O" Ring	10.06	2			02.01.2	5
08739	Ring	12.04.1	3			10.06.2	4	127419	Mount	16.02.1	5
09382	Shim	10.06	-2	118977	Capscrew	01.02.6	9	127451	Blanket	10.06.2	6
09383	Shim	10.06	2	119211	Spacer	08.05	1	127455	Washer	16.02.1	4
09392	Seal	10.06	2	119386	Starter	13.03	1	127473	Lockwire	10.06.2	4
09558	Nut	07.01.1	3	119810	Pin	12.01	2	127506	Seal	05.01	3
09859	Coupling	12.01.2	4	119859	Ring	12.01	2	127554	Collet	02.01	2
				119898	Switch	13.05	1	127807	Head	12.01	2
								127869	Tube	10.06.1	3
								127930	Insert	02.01	2
										02.01.2	4
								127931	Insert	02.01.2	4
								127932	Insert	02.01.2	4
								127933	Insert	02.01.2	4
								127934	Insert	02.01.2	4
								127936	Seal	12.01	2
110048	Elbow	10.06.2	4							12.01.2	6
110896	Belt	13.08	1	120269	Link	13.08	2	127940	Valve	12.01	2
		13.07	1	120334	Shaft	08.03	2			12.01.2	6
110907	Plug	07.01.1	3	120789	Connection	08.11.1	3	127949	Connection	12.01.2	4
110980	Hose	08.07.3	5	121147	Starter	13.03	1	127950	Gasket	12.01.2	4
111272	Lockwire	04.01	2	121208	Starter	13.03	1	128002	Clamp	05.01	1
111724	Belt	13.07	1	121229	Elbow	10.06.2	4	128040	Spring	05.01	1
		13.08	1	121609	Starter	13.03	1	128085	"O" Ring	12.01	2
111727	Belt	13.08	1	121896	Blanket	10.06.2	6			12.01.2	6
		13.07	1	121926	Pulley	13.06	1	128086	"O" Ring	12.01	2
111957	Cooler	08.09	1	122560	Ring	01.05.2	5			12.01.2	6
112001	Seal	08.11	2	122562	Ring	01.05.2	5	128087	"O" Ring	12.01	2
112054	Seal	08.11	2	122563	Ring	01.05.2	5			12.01.2	6
112202	Belt	13.07	1	122564	Ring	01.05.2	5	128080	Spring	12.01	2
		13.08	1	122658	Plate	10.06	2			12.01.2	6
113195	Ring	10.06	2	122929	Packing	01.01	3	128235	Spring	02.01	2
114020	Gasket	10.06.1	3	123558	Guide	02.01	2	128765	Dowel	01.02.6	9
114223	Pin	04.01	2	123656	Stud	10.06.2	4	128766	Dowel	01.02.6	9
114307	Bracket	10.06.2	4	123716	Element	03.02	2	128799	Spool	07.03	2
114463	Capscrew	07.06	2	123797	Bearing	10.06	2	128800	Clamp	07.03	2
114479	Decal	07.03	2	123799	Spacer	10.06	2	128801	Gasket	07.03	2
		07.03	3	123818	Belt	08.01.2	4	128802	Nut	07.03	2
114644	Spacer	09.01	2			13.07	1	128803	Retainer	07.03	2
114753	Gasket	10.06.2	4	124326	Screw	03.01	2	128804	Spring	07.03	2
114791	"O" Ring	05.01	2	124333	Nut	03.01	2	128805	Ball	07.03	2
114819	Gasket	11.01.2	2	124421	Belt	08.01.2	4	128806	Spring	07.03	2
114850	Spacer	05.01	2	124423	Belt	13.08	1	128807	Ring	07.03	2
116024	"O" Ring	07.03	2	124573	Casing	10.06	2	128936	Plate	10.06	2
116029	"O" Ring	07.03	3	124650	Shield	10.06	2	129035	Starter	13.03	1
116269	Locknut	10.06	2	124928	Belt	13.07	1	129059	Gasket	12.01	2
116388	Bearing	09.01	2			13.08	1	129516	Orifice	10.06	2
116389	Bearing	09.01	2	125015	Gasket	03.02	2	129592	Belt	13.07	1
116390	Washer	09.01	2	125016	Washer	03.02	2			13.08	1
116391	Bushing	09.01	2	125017	Nut	03.02	2	129768	Spring	05.01	2
116437	Capscrew	10.06	2	125018	Gasket	03.02	2	129826	Housing	05.01	2

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129838	Knob	05.01	2	135457	Cover	12.01.2	7			12.01.2	4
129839	Shield	05.01	2	135458	Gasket	12.01.2	7	139851	Crankshaft	12.01.2	4
129859	Connector	05.01	3	135479	Seal	12.01.2	7	139852	Crankshaft	12.01.2	4
129888	"O" Ring	05.01	2	135486	Plunger	12.01.2	7	139875	Bearing	01.07	2
130080	Bearing	12.01	2	135585	Gasket	08.10	1	139896	Guide	02.01	2
130081	Bearing	12.01	2	135587	Valve	08.10	1	139915	Support	01.09.1	2
130082	Bearing	12.01	2	135588	Cap	08.10	1			12.01.2	5
130083	Bearing	12.01	2	135601	Head	05.01	3	139950	Lockplate	01.04	2
130258	Plate	12.01	2	135612	Seal	02.01	2	139957	Spring	07.03.1	4
130756	Cam	08.11	2	135675	Thermostat	08.07.2	3			07.03	2
130757	Pin	08.11	2	135836	Clamp	11.01.2	2	139988	"O" Ring	05.01	1
130758	Wearplate	08.11	2	136042	Clamp	05.01	1				
130759	Washer	08.11	2	136403	Plate	12.01	2				
130760	Washer	08.11	2	136749	Screen	05.01	1				
130761	Ferrule	08.11	2	136750	Cartridge	07.03	3				
130762	"O" Ring	08.11	2	136838	Elbow	10.06.2	4				
130763	Seal	08.11	2	137052	Housing	08.10	1				
130764	Seat	08.11	2	137059	Cover	08.10	1				
130765	Gasket	08.11	2	137067	Gasket	08.10	1				
130800	Ring	12.01	2	137074	"O" Ring	08.10	1				
		12.01.2	5	137075	"O" Ring	08.10	1				
130801	Ring	12.01.2	5	137076	Gasket	08.10	1				
130802	Ring	12.01.2	5			08.09.1	2				
130803	Ring	12.01.2	5	137077	Element	08.10	1				
130810	Ring	12.01	2	137155	Gasket	08.10	1				
		12.01.2	5	137373	Cover	10.04	2				
130811	Ring	12.01.2	5	137374	Clamp	10.04	2				
130812	Ring	12.01.2	5	137375	Cup	10.04	2				
130813	Ring	12.01.2	5	137377	Cover	10.04	2				
131168	Retainer	02.01.1	3	137376	Gasket	10.04	2				
131430	Capscrew	05.01	1	137593	Capscrew	01.02.6	9				
131449	Screw	08.01.1	2	138042	Capscrew	01.07.2	4				
131461	Dipstick	07.02	2	138076	Capscrew	16.02.1	4				
131462	Dipstick	07.02	2	138132	Capscrew	16.02.1	4				
131463	Dipstick	07.02	2	138133	Capscrew	16.02.1	4				
131911	Orifice	07.03	3	138886	Valve	02.01	2				
131969	Key	12.01	2	138887	Valve	02.01	2				
132010	Belt	13.07	1	138935	Bracket	03.01.2	4				
		13.08	1	138953	Alternator	13.01	1				
132705	Grommet	02.01.1	3	138937	Guide	02.01	2				
132716	Resistor	08.08	1	139070	Key	01.07	2				
132717	Resistor	08.08	2	139097	Element	05.01	3				
132718	Cover	08.08	2	139114	Key	01.07.2	4				
132719	Plate	08.08	2	139247	Lockplate	11.01.2	3				
132730	Gasket	08.08	2	139400	Guide	12.01	2				
132731	Spring	08.08	2			12.01.2	6				
132732	Element	08.08	2	139412	Plug	03.01.2	4				
134072	Coil	05.01	2	139437	Bolt	01.04	2				
134325	Connector	08.08.1	3	139438	Nut	01.04	2				
134365	Plate	10.06	2	139479	Hose	08.08.1	3				
134368	Casing	10.06	2	139497	Pulley	13.08	2				
134729	Separator	07.03	2			13.08	3				
134813	Belt	13.07	1	139657	Belt	13.07	1				
		13.08	1	139675	Gasket	08.07.3	5				
135079	Seat	08.01	2	139677	Gasket	11.01.2	2				
135133	Adapter	11.01.2	2	139680	Cover	01.06	1				
135161	Starter	13.03	1	139689	Seal	05.01	3				
135163	Starter	13.03	1	139834	Diaphragm	05.01	1				
135168	Capscrew	07.03	2	139845	Gasket	09.01.1	3				
135169	Ring	07.03	2			12.01.2	4				
135368	Evaporator	12.01.2	7	139846	Gasket	01.09.1	2				
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40081	Bearing	01.02.1	4	142143	Ring	08.03	2			12.01.2	6
40082	Bearing	01.02.1	4	142176	Nut	08.03	2	145204	Head	12.01	2
40083	Bearing	01.02.1	4	142189	Hub	08.03	2	145640	"O" Ring	07.03	3
40084	Bearing	01.02.1	4	142198	Alternator	13.01	1	145664	Bracket	07.03	2
40090	Bearing	01.02.1	4	142470	Piston	12.01	2	145665	Strap	07.03	3
40091	Bearing	01.02.1	4			12.01.2	5	145825	Pulley	01.02.3	6
40092	Bearing	01.02.1	4	142471	Piston	12.01.2	5	145828	Pulley	01.02.3	6
140093	Bearing	01.02.1	4	142472	Piston	12.01.2	5	145830	Crankshaft	01.02	1
140094	Bearing	01.02.1	4	142473	Piston	12.01.2	5			01.02	2
140100	Bearing	01.02.1	4	142598	Seal	01.06.1	2	145840	Crankshaft	01.02	1
140101	Bearing	01.02.1	4	142599	Seal	01.09.1	2			01.02	2
140102	Bearing	01.02.1	4	142686	Screw	08.10.1	2	146064	Plate	02.01	2
140103	Bearing	01.02.1	4	142690	Crankshaft	01.02	2	146076	Thermostat	08.07.2	3
140104	Bearing	01.02.1	4			01.02	1	146120	Insert	02.01	2
140106	Spacer	13.07	6	142784	Head	05.01	3			02.01.2	4
140120	Pin	01.05.1	3	145840	Crankshaft	01.02	2	146121	Insert	02.01.2	4
		01.05	2	142970	Rod	01.04	1	146122	Insert	02.01.2	4
140218	Washer	01.01	2	142992	Screw	03.01	2	146123	Insert	02.01.2	4
140259	Lockplate	12.01	2	143021	Bracket	03.01.2	4	146124	Insert	02.01.2	4
140276	Lockplate	12.01	2	143085	Spacer	08.03	2	146299	Connector	07.02	2
140277	Lockplate	12.01	2			08.05.1	1	146457	Relay	13.04	1
140317	Ring	01.05	2	143108	Gasket	08.03	2	146458	Relay	13.04	1
		01.05.1	3	143116	Bearing	08.03	2	146470	Bearing	01.04	3
140325	Cover	08.07.3	4	143402	Gear	07.06	2	146471	Bearing	01.04	3
140329	Gasket	08.07.3	5	143403	Gear	07.06	2	146472	Bearing	01.04	3
140347	Connection	08.07.1	2	143405	Shaft	07.06	2	146473	Bearing	01.04	3
140348	Cover	08.07.1	2	143406	Shaft	07.06	2	146474	Bearing	01.04	3
140470	Link	05.01	1	143667	Adapter	16.02.1	5	146590	Bearing	01.02.1	4
140514	Gasket	08.07.3	5			01.02.6	9	146591	Bearing	01.02.1	4
140515	Gasket	08.07.3	5	143679	Shaft	05.01	2	146592	Bearing	01.02.1	4
140519	Pulley	13.06	1	143694	Gasket	07.06	2	146593	Bearing	01.02.1	4
140566	Capscrew	16.02.1	4	143776	Mesh	03.02	2	146594	Bearing	01.02.1	4
		01.02.6	9	143832	Flywheel	16.02	2	146600	Bearing	01.02.1	4
140567	Capscrew	16.02.1	4	143889	Rod	12.01	2	146601	Bearing	01.02.1	4
		01.02.6	9	143913	Film	08.01	2	146602	Bearing	01.02.1	4
146600	Bearing	01.02.1	4	144018	Hose	08.08.1	3	146603	Bearing	01.02.1	4
140615	Generator	13.01	1	144131	Key	01.02	2	146604	Bearing	01.02.1	4
		13.06	1	144306	Seal	08.01	2	146610	Bearing	01.02.1	4
		13.07	6	144308	Spring	12.01	2	146611	Bearing	01.02.1	4
140616	Adapter	11.01.2	2			12.01.2	6	146612	Bearing	01.02.1	4
140669	Thermostat	08.07.2	3	144529	Crankcase	12.01	2	146613	Bearing	01.02.1	4
140687	Pipe	08.07.3	6	144667	Gasket	07.01.1	2	146614	Bearing	01.02.1	4
140688	Seal	01.07.2	4	144675	Silencer	11.02	1	146648	Shaft	08.03	2
140698	Gasket	07.03	2	144680	Bushing	12.01	2	146650	Nut	08.03	2
		07.03.1	4	144714	Seat	12.01	2	146651	Washer	08.03	2
140879	Hub	08.03	1			12.01.2	6	146742	Tachometer	15.01	1
		08.03	2	144800	Bushing	01.09.1	2	146750	Piston	01.05	1
140896	Seal	09.01.1	3			09.01.1	3			01.05	2
		01.09.1	2			12.01.2	5	146752	Piston	01.05	2
		12.01.2	5	144896	Crosshead	02.01.2	4	146753	Piston	01.05	2
141617	Gasket	01.06.1	2	144897	Crosshead	02.01.2	4	146754	Piston	01.05	2
141771	Bearing	08.03	2	144941	Support	16.03	1	146893	Kit	08.11.1	4
141854	Fan	08.02	1	144948	Valve	12.01	2	146909	Seal	01.09.1	2
141856	Pulley	13.06	1			12.01.2	6			09.01.1	3
141872	Lever	03.01	1	144991	Head	07.03	2			12.01.2	5
		03.01	2	145027	Relay	13.04	1	146972	Tube	12.01.2	8
141873	Lever	03.01	1	145028	Seat	12.01	2	146974	Lever	03.01	1
		03.01	2			12.01.2	6	146975	Bushing	03.01	2
141875	Bushing	03.01	2	145075	Gasket	07.03.1	4	146976	Shaft	03.01.2	4
141937	Lockplate	10.06	2	145078	Casing	10.06	2	146977	Shaft	03.01.2	4

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146980	Crankshaft	12.01	3	149486	Flywheel	16.02	2				
		12.01.2	4	149506	Pulley	08.01	1				
146981	Crankshaft	12.01.2	4			08.01	2				
146982	Crankshaft	12.01.2	4	149526	Pan	07.01	1				
146990	Cleaner	12.01.2	7	149527	Baffle	07.01.1	2				
147004	Starter	13.03	1	149635	Body	07.06	2				
147036	Rod	01.04	1	149717	Shaft	07.06	2				
147056	Sleeve	02.01	2	149718	Shaft	07.06	2				
147135	Bracket	07.02	2	149719	Gear	07.06	2				
147160	Bushing	01.01	2	149726	Orifice	05.01	1				
		01.07.2	4	149747	Gasket	07.01.1	2				
147262	Pulley	09.03	4	149809	Cover	07.06	2				
147280	Flywheel	16.02	2	149816	Gasket	07.06	2				
147297	Sleeve	09.01.1	3	149920	Head	02.01	1				
147333	Starter	13.03	1	149930	Head	02.01	1				
147389	Screw	02.01.2	4	149955	Body	07.06	2				
147416	Plug	07.01.1	3	149972	Gear	07.06	2				
147417	Dipstick	07.02	2	149973	Gasket	02.01	1				
147418	Tube	07.02	1	149996	Cover	03.01.1	3				
147440	Support	01.09.1	2								
		12.01.2	5								
147466	Flywheel	16.02	1								
147538	Dipstick	07.02	2								
147518	Tube	05.01	3								
147558	Retainer	05.01	1								
147559	Gasket	05.01	1								
147626	Ball	05.01	1								
147670	Ring	01.05.2	5								
147672	Ring	01.05.2	5								
147673	Ring	01.05.2	5								
147674	Ring	01.05.2	5								
147729	Cover	08.07.3	4								
147902	Tube	05.01	3								
147903	Tube	05.01	3								
147920	Belt	13.07	1								
		13.08	1								
147991	Clip	05.01	2								
148001	Bolt	01.01	2								
148210	Bushing	01.01	2								
		01.07.2	4								
148338	Orifice	05.01	1								
148350	Crankshaft	01.02	1								
		01.02	2								
148376	Connector	05.01	2								
148524	Guide	05.01	1								
148691	Plate	12.04.1	3								
148692	Bracket	12.04.1	2								
148693	Pulley	09.03	4								
		12.04.1	3								
148694	Pump	12.04.1	1								
		09.03	4								
		12.04.1	3								
149129	Flywheel	16.02	2								
149151	Gear	07.06	2								
149154	Fan	08.02	1								
149221	Housing	16.01	2								
149225	Regulator	13.02	1								
149226	Relay	13.04	1								
149314	Flywheel	16.02	1								
149366	Hub	08.03	2								
149369	Shaft	08.03	2								

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150036	Support	07.03	3	151109	Dowel	01.09	2			07.01.1	2
150037	Spring	07.03	3	151110	Dowel	01.09.1	2			07.01.1	3
150038	Coupling	07.03	3	151111	Dowel	01.09.1	2	152080	Pin	04.01	2
150039	Coupling	07.03	3	151169	Cap	07.03	2	152082	Roller	04.01	2
150064	Support	09.01	2			07.03	4	152172	Housing	16.01	2
150067	Hub	08.03	2	151196	Cover	03.01.1	3	152173	Socket	03.01	2
150073	Dowel	01.01	2	151249	Cover	01.01	2	152249	Housing	07.03.1	4
		01.01	3	151292	Gear	09.01	2	152257	Belt	13.08	1
150079	Shaft	09.01	1	151294	Flywheel	16.02	2	152277	Flywheel	16.02	2
		09.01	2	151299	Gasket	03.01.2	5	152394	Pulley	01.02.3	6
150100	Bearing	01.02.1	4	151333	Pan	07.01	1	152438	Housing	08.07	1
150101	Bearing	01.02.1	4	151346	Cover	01.07.2	4	152499	Element	07.03	3
150102	Bearing	01.02.1	4	151347	Cover	01.07.2	4	152622	Strap	07.01.1	2
150118	Dowel	01.01	2	151348	Capscrew	01.01	2	152636	Flywheel	16.02	2
		01.01	3			02.01.2	4	152661	Hub	08.03	2
150119	Dowel	01.09.1	2	151349	Capscrew	01.01	2	152744	Housing	08.07	1
150129	Gear	01.07	2			02.01.2	4	152792	Screw	10.04	2
		01.07.1	3	151350	Capscrew	01.01	2	152793	Washer	10.04	2
150138	Gear	01.02	2			02.01.2	4	152869	Ring	10.06	2
150139	Gear	09.01	2	151576	Shaft	09.01	2	152920	Camshaft	01.07	1
		12.01	1			09.03	4			01.07	2
		12.01	2	151578	Pulley	09.03	4	152106	Bolt	07.03	3
		12.01	3	151583	Housing	16.01	2	153107	Flywheel	16.02	3
150631	Spring	12.01.2	6	151602	Pan	07.01	1	153121	Pulley	09.03	4
		12.01	2	151603	Pan	07.01	1	153125	Spacer	08.03	2
150717	Gasket	02.01	1	151606	Cleaner	10.04	1	153182	Housing	16.01	2
150747	Gasket	10.04	2			10.04	2	153312	Tube	12.01.2	8
150756	Element	10.04	2	151609	Cleaner	10.04	2	153336	Body	05.01	1
150757	Cover	10.04	2			10.04	1	153338	Plate	05.01	1
150758	Cover	10.04	2	151620	Plate	07.06	2	153575	Cover	01.06	1
150759	Body	10.04	2	151625	Pulley	09.03	4	153579	Manifold	10.01	1
150763	Clamp	10.04	2	151705	Flywheel	16.02	2	153581	Capscrew	13.07	4
150766	Gasket	10.04	2	151707	Gasket	10.01.2	4	153582	Capscrew	13.07	4
150767	Clip	10.04	2	151708	Gasket	03.01.2	5	153606	Manifold	10.01	1
150768	Cap	10.04	2	151732	Flywheel	16.02	1	153615	Rod	04.02	4
150771	Clamp	10.04	2	151740	Gasket	10.01.2	4	153685	Pan	07.01	1
150772	Cup	10.04	2	151777	Housing	16.01	2			07.02	1
150775	Gasket	10.04	2	151780	Gasket	01.09.1	2			07.01.1	3
150778	Element	10.04	2	151781	Gasket	01.01	2	153717	Head	07.03	3
150779	Cover	10.04	2	151784	Flywheel	16.02	1	153728	Gasket	10.06	2
150780	Cover	10.04	2	151798	Body	10.04	2	153769	Shield	10.06	2
150781	Body	10.04	2	151801	Body	10.04	2	153959	Pulley	01.02.3	6
150782	Gasket	10.04	2	151858	Head	05.01	3	153614	Rod	04.02	4
150808	Bracket	07.02	2	151859	Shell	05.01	3	154020	Ring	01.05.2	5
150826	Tube	05.01	3	151866	Gasket	01.07.2	4	154022	Ring	01.05.2	5
150879	Tappet	04.01	1	151878	Cover	01.06	1	154023	Ring	01.05.2	5
150880	Tappet	04.01	1			01.07.2	4	154024	Ring	01.05.2	5
150913	Spring	04.01.1	3	151879	Washer	05.01	3	154087	"O" Ring	05.01	2
150914	Spring	04.01.1	3	151880	Capscrew	05.01	3	154166	Shield	01.09.1	2
151032	Cover	07.06	2	151881	Gasket	05.01	3	154167	Slinger	01.02.6	9
151033	Plate	07.06	2	151884	Seal	05.01	3	154176	Shaft	09.01	1
151035	Plate	01.09	1	151885	Spring	05.01	3			09.01	2
151075	Connection	08.01.2	4	151898	Impeller	08.11	2	154226	Cover	10.01.2	4
151100	Gasket	01.09.1	2	151900	Seal	05.01	1	154227	Cover	10.01.2	4
151101	Gasket	07.01.1	2	151920	Support	05.01	3	154272	Breather	03.02	1
151102	Gasket	07.01.1	2	151939	Ring	05.01	3			03.02	2
151103	Dowel	01.01	3	151940	Filter	05.01	3	154301	Capscrew	16.02.1	4
151104	Dowel	01.01	3	152038	Body	07.06	2	154311	Flywheel	16.02	1
151105	Dowel	01.01	3	152046	Flywheel	16.02	1	154315	Pulley	01.02.3	6
151106	Dowel	01.01	3	152066	Pan	07.01	1	154316	Pulley	08.03	2
151107	Dowel	01.01	3			07.02	1	154318	Belt	08.01.2	4
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154371	Cover	01.06	1			13.08	2	156101	Rod	01.04	1
154376	Bracket	13.07	2			13.08	3	156108	Tube	12.01.2	8
154377	Belt	13.08	1	155086	Belt	13.07	1	156116	Tube	12.01.2	8
154378	Link	13.07	3			13.08	1	156122	Bracket	08.04	1
154396	Gasket	10.01.2	4	155093	Damper	01.02.2	5			13.08	3
154397	Gasket	10.01.2	4	155172	Ring	01.01	3	156123	Bracket	13.07	2
154402	Link	13.08	1	155227	Pulley	08.01	1			13.08	3
154518	Pulley	01.02.3	6			08.01	2	156125	Pulley	13.06	1
154519	Pulley	08.03	2	155285	Cover	08.07.3	4			13.08	2
154526	Bracket	08.04	1	155294	Connection	10.01.1	2			13.08	3
		13.08	2			10.01.2	4	156126	Tube	05.01	3
154527	Bracket	13.07	2	155299	Manifold	10.01	1	156129	Bracket	13.07	2
154528	Bracket	17.06	1	155300	Manifold	10.01	1			13.08	2
154570	Cover	01.06	1	155306	Connection	10.01.1	2			13.08	3
154571	Roller	04.01	2	155307	Connection	10.01.1	2	156143	Bracket	07.03.1	4
154577	Bearing	08.01	2	155308	Bracket	10.04.1	3	156144	Cover	03.01.1	3
154579	Flywheel	16.02	3	155309	Bracket	10.04.1	3	156161	Flywheel	16.02	2
154586	Pulley	08.01	1	155313	Connection	12.01.2	4	156162	Flywheel	16.02	3
		08.01	2	155314	Gasket	10.01.2	4	156163	Flywheel	16.02	3
154587	Bracket	13.07	2	155317	Plate	10.04.1	3	156173	Pipe	08.07.3	6
154589	Cover	08.07.3	4	155318	Bracket	10.04.1	3	156197	Starter	13.03	1
154590	Connection	08.01.2	4	155339	Belt	12.04.1	2	156198	Manifold	11.01	1
154591	Connection	08.01.2	4			13.07	1	156199	Manifold	11.01	1
154593	Belt	13.08	1	155340	Camshaft	01.07	1	156200	Piston	01.05	2
154637	Link	13.07	3			01.07	2			16.05	1
154638	Bracket	13.07	2	155403	Tube	07.02	1	156201	Gear	16.05	1
154639	Spacer	08.01	2	155407	Connection	10.01.1	2	156202	Piston	01.05	2
154643	Hook	08.07.3	5			10.01.2	4	156203	Piston	01.05	2
		17.06	1	155420	Piston	01.05	1	156204	Piston	01.05	2
154676	Pan	07.01	1			01.05	2	156214	Cover	01.06	1
		07.01.1	3	155422	Piston	01.05	1	156220	Piston	01.05	1
154746	Connection	10.01.2	4			01.05	2	156222	Piston	01.05	1
154774	Tachometer	15.01	1	155423	Piston	01.05	1	156224	Piston	01.05	1
154776	Shaft	15.01	1			01.05	2	156288	Pulley	01.02.3	6
154777	Shaft	15.01	1	155424	Piston	01.05	1	156289	Pulley	01.02.3	6
154857	Pan	07.01	1			01.05	2	156297	Tube	07.02	1
		07.01.1	3	155500	Camshaft	01.07	1	156304	Bolt	01.04	2
154901	Connection	10.01.1	3			01.07	2	156305	Housing	16.01	2
		10.01.1	4	155510	Camshaft	01.07	1	156310	Bearing	01.04	3
154902	Bracket	13.07	2			01.07	2	156311	Bearing	01.04	3
		13.08	2	155527	Housing	16.01	3	156312	Bearing	01.04	3
154911	Support	01.09.1	2	155528	Shaft	08.01	2	156313	Bearing	01.04	3
		12.01.2	5	155558	Flexplate	16.02	1	156314	Bearing	01.04	3
154913	Coupling	12.04.1	2			16.02.1	5	156330	Manifold	11.01	1
154915	Cover	09.01.1	3	155559	Adapter	16.02.1	5	156331	Manifold	11.01	1
154916	Gasket	12.04.1	2	155560	Ring	16.02.1	5	156332	Pan	07.01	1
154919	Connection	12.01.2	8	155698	Bracket	13.07	2	156348	Gasket	10.01.2	4
154933	Cover	01.07.2	4	155787	Connection	12.01.2	4	156349	Connection	10.01.1	2
154934	Cover	03.01.1	3	155789	Hose	12.01.2	4			10.01.2	4
154935	Cover	03.01.1	3	155790	Hose	12.01.2	4	156350	Connection	10.01.1	2
154950	Liner	01.01	1	155796	Pulley	12.04.1	3			10.01.2	4
154963	Crossover	12.01.2	8	155797	Pulley	12.04.1	3	156351	Connection	10.01.1	2
154967	Bearing	08.01	2	155798	Bracket	12.04.1	2			10.01.2	4
154997	Manifold	10.01	1	155799	Spacer	12.04.1	3	156352	Connection	10.01.1	2
154998	Manifold	10.01	1	155945	Pulley	12.04.1	3			10.01.2	4
155014	Housing	16.01	2	155983	Housing	08.07	1	156358	Connection	10.01.1	2
155065	Element	12.01.2	7	155984	Gasket	08.07.3	5	156389	Bracket	13.08	3
155066	Cover	12.01.2	7	155993	Pulley	01.02.3	7	156396	Bracket	13.08	3
155067	Gasket	12.01.2	7	155994	Pulley	01.02.3	7	156397	Key	01.07	2
155068	Bracket	12.01.2	7	155995	Bracket	08.04	1			01.07.2	4
155072	Plunger	07.03	2	155997	Cover	03.02	2	156399	Connection	08.01.2	4
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		13.08	3	157120	Sleeve	11.01.2	3	157819	Cover	03.01.1	3
156408	Link	13.08	1	157128	Connection	08.10	1	157820	Cover	03.01.1	3
		13.08	3	157129	Housing	08.07	1	157821	Gasket	03.01.2	5
156431	Bracket	13.07	2	157130	Connection	08.07.1	2	157835	Bracket	13.07	2
		13.08	3	157131	Connection	08.07.1	2	157836	Bracket	17.06	1
156436	Manifold	10.01	1	157133	Pipe	08.07.3	6	157854	Pan	07.01	1
156437	Bracket	17.06	1	157135	Support	08.10	1	157856	Link	13.07	3
156474	Bracket	08.08.1	3	157155	Flywheel	16.02	1	157857	Belt	08.04.1	2
156497	Manifold	10.01	1			16.02	3	157869	Alternator	13.01	1
156498	Manifold	10.01	1	157184	Hub	08.03	2			13.08	2
156499	Manifold	10.01	1	157185	Pulley	08.03	2			13.08	3
156506	Manifold	10.01	1			13.06	1	157876	Starter	13.03	1
156554	Alternator	13.01	1	157187	Damper	01.02.2	5	157956	Strap	07.01.1	2
156614	Cover	01.06	1	157191	Spacer	11.01.2	3	158006	Cover	08.07.3	4
156658	Body	08.01	1	157192	Spacer	11.01.2	3	158007	Cover	08.07.3	4
		08.01	2	157237	Housing	01.09	1	158049	Connection	10.01.2	4
156659	Gasket	10.01.2	4			07.02	1	158056	Sheave	08.01	1
156660	Pulley	08.01	1			16.01	2			08.01	2
		08.01	3	157268	Pipe	11.01.2	3	158057	Sheave	08.01	1
156661	Connection	08.01.2	4	157286	Flywheel	16.02	2			08.01	2
156684	Manifold	11.01	1	157287	Housing	16.01	2	158059	Elbow	08.01.2	4
156685	Manifold	11.01	1	157346	Pulley	09.03	4	158149	Connection	08.07.1	2
156808	Connection	10.01.1	2	157398	Body	08.01	2	158150	Connection	08.01.2	4
		10.01.2	4	157407	Pulley	01.02.3	6	158151	Housing	16.01	2
156809	Connection	10.01.1	2	157408	Pulley	13.06	1	158157	Pipe	08.07.3	6
		10.01.1	3	157416	Cover	07.05	1	158158	Pipe	08.07.3	6
		10.01.1	4	157417	Cover	07.05	1	158197	Shield	11.01.2	3
156810	Breather	03.02	1	157418	Cover	07.05	1	158206	Head	07.03	2
		03.02	2	157419	Cover	07.05	1	158208	Washer	07.03	2
156811	Plate	03.02	2	157426	Gasket	07.05.1	2	158250	Capscrew	13.07	4
156812	Housing	03.02	2	157427	Gasket	07.05.1	2	158258	Hub	08.03	2
156819	Gasket	12.04.1	2	157428	Gasket	07.05.1	2	158259	Flywheel	16.02	1
156820	Adapter	12.04.1	2	157429	Gasket	07.05.1	2	158265	Tachometer	15.01	1
156821	Coupling	12.04.1	2	157436	Gasket	07.05.1	2	158302	Bracket	13.07	2
156828	Bracket	13.07	2	157437	Gasket	07.05.1	2			13.08	3
		13.08	2	157438	Gasket	07.05.1	2	158303	Bracket	13.07	2
156829	Bracket	13.07	2	157439	Gasket	07.05.1	2			13.08	3
		13.08	2	157460	Element	07.05	1	158305	Bracket	08.04	1
156830	Link	13.07	3	157461	Element	07.05	1			13.08	3
		13.08	2	157462	Element	07.05	1	158306	Link	13.07	3
156831	Link	13.07	3	157463	Element	07.05	1			13.08	1
		13.08	1	157506	Clamp	11.01.2	2	158313	Support	08.07.2	3
156832	Link	13.07	3	157572	Cover	02.01	2	158317	Pipe	11.01.2	3
		13.08	1	157577	Starter	13.03	1	158318	Pipe	11.01.2	3
156846	Bracket	08.08.1	3	157602	Bracket	16.02.1	5	158321	Pipe	11.01.2	3
156866	Connection	08.07.1	2	157603	Bracket	16.02.1	5	158322	Pipe	11.01.2	3
156867	Connection	08.07.1	2	157604	Mount	16.02.1	5	158325	Bracket	08.11.1	3
156868	Tube	08.07.3	6	157609	Connection	11.01.2	2	158330	Gasket	08.10	1
156869	Tube	08.07.3	6	157610	"U" Bolt	11.01.2	2	158335	Connection	11.01.2	2
156870	Connection	08.07.1	2	157613	Cover	02.01	2	158336	Connection	11.01.2	2
156920	Crankshaft	01.02	2	157646	Housing	08.07	1	158347	Cover	01.06	1
157040	Alternator	13.01	1	157647	Housing	08.07	1	158358	Connection	10.01.2	4
157041	Regulator	13.02	1	157649	Pulley	09.03	4	158370	Crankshaft	01.02	1
157083	Coupling	08.04.1	2			12.04.1	3			01.02	2
157082	Muffler	11.02	1	157743	Manifold	11.01	1	158391	Capscrew	01.02.6	9
157083	Coupling	11.02	1	157744	Manifold	11.01	1	158392	Capscrew	01.02.6	9
157084	Bearing	11.02	1	157745	Manifold	11.01	1	158393	Capscrew	01.02.6	9
157098	Valve	08.09	1	157746	Manifold	11.01	1	158394	Capscrew	01.02.6	9
157100	Spacer	13.07	6	157776	Shaft	08.03	2	158435	Body	12.01	1
157112	Connection	10.01.1	2	157816	Flywheel	16.02	3	158459	Tube	07.02	1
157114	Brace	10.06.2	4	157817	Housing	03.01	1	158461	Bracket	17.07	1
		11.01.2	2								

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158463	Bracket	17.06	1	159102	Shim	01.01	3	159766	Brace	07.03.1	4
158466	Hub	08.03	2	159103	Shim	01.01	3	159768	Body	08.01	1
158468	Support	17.07	1	159104	Bracket	13.07	2			05.01	2
158469	Belt	13.07	1	159105	Bracket	13.07	2	159951	Hook	17.06	1
158470	Link	13.07	3	159108	Support	13.07	6	159984	Cup	05.01	1
158471	Pulley	01.02.3	6	159110	Relay	13.04	1	159988	Belt	13.08	1
158472	Bracket	17.07	1	159112	Pulley	08.01	1				
158473	Bracket	13.07	2			08.01	2				
158474	Belt	08.04.1	2	159113	Pulley	08.01	2				
158476	Bracket	13.07	2			01.02.3	6				
158506	Damper	01.02.2	5	159114	Support	13.07	6				
158519	Hub	08.03	1	159117	Pulley	08.01	2				
		08.03	2			13.06	1				
158533	Body	08.01	3	159138	Cover	03.01.1	3				
158551	Gasket	01.06.1	2	159139	Cover	03.01.1	3				
158554	Support	08.03	2	159140	Cover	03.01.1	3				
158556	Seal	01.06.1	2	159141	Housing	03.01	1				
158589	Housing	16.01	2	159142	Gasket	03.01.2	5				
158603	Capscrew	01.02.6	9	159144	Transmission	16.05	1				
158604	Bracket	07.03.1	4	159173	Damper	01.02.2	5				
158630	Liner	01.01	1	159178	Cover	08.09.1	2				
158646	Connection	08.01.2	4	159179	Cover	08.09.1	2				
158713	Dipstick	07.02	2			08.10	1				
158714	Pulley	08.01	2	159180	Cover	08.09.1	3				
		08.01	3	159181	Cover	08.09.1	3				
158720	Bearing	01.04	3	159182	Impeller	08.01	2				
158721	Bearing	01.04	3	159192	Shaft	08.01	2				
158722	Bearing	01.04	3	159224	Diffuser	10.06	2				
158723	Bearing	01.04	3	159232	Pulley	13.06	1				
158724	Bearing	01.04	3	159255	Adapter	01.02.4	8				
158754	Cover	01.06	1	159256	Pulley	01.02.3	6				
158755	Bracket	16.03	1	159257	Pulley	01.02.3	6				
158759	Adapter	01.02.6	9	159258	Pulley	01.02.3	6				
158760	Adapter	01.02.6	9	159259	Pulley	01.02.3	6				
158762	Bracket	07.03.1	4	159260	Pulley	01.02.3	6				
158763	Shaft	09.01	2	159261	Pulley	01.02.3	6				
158764	Support	09.01	2	159262	Pulley	01.02.3	6				
158767	Bracket	17.06	1	159306	Brace	08.10	1				
		08.07.3	4	159312	Hose	08.09.1	2				
158780	Hub	08.03	2	159330	Shaft	08.01	2				
158805	Housing	16.01	2	159331	Flywheel	16.02	2				
158818	Pulley	01.02.3	7	159425	Flywheel	16.02	2				
158836	Link	13.07	3	159426	Flywheel	16.02	2				
158885	Cap	01.01	3	159427	Flywheel	16.02	2				
158906	Tube	07.02	1	159428	Flywheel	16.02	2				
158907	Tube	07.02	1	159429	Flywheel	16.02	2				
158928	Connection	10.01	3	159430	Flywheel	16.02	3				
158929	Connection	10.01.1	3	159431	Flywheel	16.02	2				
159029	Tube	07.02	1	159434	Tube	07.02	1				
159036	Tube	07.02	1	159568	Pulley	12.04.1	3				
159037	Support	07.02	1	159569	Pulley	12.04.1	3				
159038	Support	07.02	1	159570	Plate	12.04.1	3				
159039	Support	07.02	1	159572	Manifold	10.01	1				
159065	Adapter	01.02.4	8	159574	Support	12.04.1	3				
159079	Adapter	09.01.1	3	159575	Connection	08.07.1	2				
		12.01.2	4	159578	Bracket	17.06	1				
159084	Connection	10.01.1	2	159610	Block	01.01	2				
159085	Connection	10.01.1	2			01.01	1				
159098	Shim	01.01	3	159620	Block	01.01	1				
159099	Shim	01.01	3	159667	Cover	07.03	3				
159100	Shim	01.01	3	159738	Pulley	01.02.3	7				

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160057	Bracket	16.01.1	4	161461	Cover	07.05	1				
160058	Bracket	05.01	3	161462	Gasket	07.05.1	2				
160059	Support	08.09.1	3	161891	Plug	02.01.2	4				
160060	Support	08.09.1	3	162230	Cap	01.01	3				
160061	Bracket	13.07	2	162231	Cap	01.01	3				
160062	Link	13.07	3	170000	Body	05.01	1				
160064	Connection	08.01.2	4								
160065	Pipe	11.01.2	3								
160066	Bracket	08.09.1	2								
160067	Bracket	07.03.1	4								
160068	Cooler	08.09	1								
		08.09.1	3								
160072	Body	12.01	1								
		12.01	2								
160093	Brace	10.04.1	1								
160116	Pulley	01.02.3	7								
160119	Cover	01.06	1								
160206	Bracket	08.04	1								
160208	Housing	08.07	1								
160209	Housing	08.07	1								
160216	Connection	08.07.1	2								
160241	Housing	16.01	3								
160249	Housing	08.07	1								
160250	Housing	08.07	1								
160306	Capscrew	01.01	2								
160368	Bracket	08.08.1	3								
160337	Tube	07.02	1								
160376	Belt	13.08	1								
160473	Tube	05.01	2								
160474	Tube	05.01	2								
160475	Tube	05.01	2								
160476	Tube	05.01	2								
160477	Tube	05.01	2								
160478	Tube	05.07	2								
160479	Tube	05.01	2								
160480	Tube	05.01	2								
160481	Tube	05.01	2								
160482	Tube	05.01	2								
160483	Tube	05.01	2								
160484	Tube	05.01	2								
160485	Tube	05.01	2								
160486	Tube	05.01	2								
160487	Tube	05.01	3								
160488	Tube	05.01	3								
160514	Washer	05.01	1								
160549	Bracket	13.07	2								
160567	Switch	13.05	1								
160589	Pulley	01.02.3	7								
160600	Link	13.07	3								
160620	Fan	08.02	1								
160633	Flywheel	16.02	3								
160734	Damper	01.02.2	5								
160735	Fan	13.07	5								
160796	Alternator	13.01	1								
		13.06	1								
160910	Capscrew	01.02.6	9								
160948	Pulley	13.06	1								
160968	Spacer	01.02.5	8								
161035	Plug	02.01.2	4								
161040	Bracket	13.07	2								
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		11.02	1			08.09.1	2			07.01.1	4
		12.01	2			11.01.2	3			07.05.1	2
		12.01.2	6			13.07	4			08.10.1	2
S-102-D	Capscrew	01.09.1	2	S-141	Capscrew	07.01.1	3			08.07.3	6
		07.01.1	3			07.03.1	4			10.01.2	4
		08.07.3	6			08.08.1	3			10.06.2	5
		08.10.1	2	S-145	Capscrew	13.07	4			12.01	2
		12.07	2	S-155	Capscrew	11.01.2	3			16.02.1	4
S-103-D	Capscrew	01.06.1	2			13.07	4	S-603	Lockwasher	01.07.2	4
		01.07.2	4	S-163	Capscrew	01.09.1	2			16.01.1	4
		03.01.2	5			08.07.3	6	S-604	Lockwasher	01.01	2
		07.05.1	2	S-167-A	Capscrew	08.08.1	3			01.06.1	2
		07.06	2	S-168-C	Capscrew	10.06	2			01.07.2	4
		07.06.1	3			12.01.2	7			01.09.1	2
		08.01.2	4	S-172-A	Capscrew	01.02.6	9			03.01.2	5
		08.03	2	S-172-B	Capscrew	01.01	2			05.01.1	1
		08.04.1	1			08.10.1	2			07.01.1	3
		08.07.3	6			10.06.2	5			07.02	1
		08.09.1	2	S-172-C	Capscrew	05.01	1			07.03.1	4
		08.10.1	2	S-173	Capscrew	16.01.1	4			07.05.1	2
		08.11.1	3	S-173-A	Capscrew	13.07	4	S-604	Lockwasher	08.01.2	4
		12.01	2	S-174-B	Capscrew	07.01.1	3			08.03	2
		12.01.2	6			10.01.2	4			08.04.1	2
S-104	Capscrew	07.06	2			13.07	4			08.07.3	6
		11.01.2	3	S-186-A	Capscrew	01.07.2	4			08.08.1	3
		12.01	2	S-189-C	Capscrew	05.01	2			08.09.1	2
S-105	Capscrew	01.09.1	2	S-193	Capscrew	12.01	2			08.10.1	2
		10.01.2	4	S-199-A	Capscrew	16.02.1	4			08.11.1	3
		16.02.1	4	S-199-B	Capscrew	01.09.1	2			10.01.2	4
S-105-A	Capscrew	01.02.6	9			07.03.1	4			10.06.2	5
S-106-A	Capscrew	12.01.2	6			16.02.1	4			11.01.2	3
S-107	Capscrew	07.01.1	3	S-200	Nut	11.01.2	3	S-604	Lockwasher	12.01	2
S-109	Capscrew	01.06.1	2			13.07	4			12.01.2	6
		01.07.2	4	S-212-A	Nut	16.02.1	4			13.07	4
		01.09.1	2	S-218-A	Nut	16.02.1	4			16.02.1	4
S-111	Capscrew	08.01	2	S-221	Nut	08.11.1	3	S-605	Lockwasher	08.01	2
S-112	Capscrew	07.01.1	3	S-223	Nut	07.02	1			08.04.1	2
		08.01.2	4			08.10.1	2			08.09.1	2
		08.03	2	S-225	Nut	08.10.1	2			10.06	2
		08.07.3	6			10.06.2	5			11.02	1
		08.10.1	2	S-231	Nut	13.07	4			12.01	2
		08.11.1	3	S-257	Nut	05.01	2			12.01.2	6
		10.06.2	5	S-273	Nut	02.01.2	4	S-607	Lockwasher	05.01	2
		11.01.2	3	S-295	Nut	12.01.2	7			08.10.1	2
		13.07	4	S-302	Key	01.07.2	4	S-608	Lockwasher	07.03	2
S-113	Capscrew	16.01.1	4	S-306	Key	09.01	2			11.01.2	3
S-114	Capscrew	07.01.1	3	S-308	Key	09.01	2			16.01.1	4
S-115	Capscrew	08.09.1	2	S-313	Key	08.03	2	S-610	Washer	07.03	2
S-117	Capscrew	07.02	1	S-316	Key	01.07.2	4			08.10.1	2
		07.01.1	3			09.01	2			11.01.2	3
		08.07.3	6	S-327	Key	08.11	2			16.03.1	2
S-119	Capscrew	08.04.1	2	S-503	Pin	07.03	2	S-622	Lockwasher	07.03	2
S-120	Capscrew	07.05.1	2	S-510	Pin	08.03	2			08.10.1	2
		07.06.1	3	S-600	Lockwasher	05.01	2	S-626	Washer	10.06	2
		08.07.3	6			08.08.1	3	S-631	Washer	08.08.1	3
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S-125	Capscrew	11.01.2	3			12.01.2	7	S-658	Washer	08.11.1	3
S-126	Capscrew	08.09.1	2	S-602	Washer	01.01	2	S-670	Lockwasher	11.01.2	3
S-136	Capscrew	01.01	2			01.09.1	2	S-698	Lockwasher	05.01	1
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		08.07.3	6	S-16255	Ring	08.01	2				
		12.01	2			08.11	2				
S-910-B	Plug	01.09.1	2								
		02.01	2								
		07.05.1	2								
S-911-B	Plug	01.01	2								
		01.07.2	4								
		01.09.1	2								
		02.01	2								
		07.01.1	3								
		08.01	2								
		08.03	2								
		09.01	2								
		10.01.2	4								
		01.01	2								
S-915-A	Plug	07.01.1	3								
		08.01	2								
		08.07.3	1								
S-921-D	Bushing	12.01.2	6								
S-921-E	Cock	08.01.2	4								
S-930-E	Tee	08.07.3	6								
S-931-C	Bushing	08.07.3	6								
S-933	Tee	05.01	2								
S-945	Nipple	08.07.3	6								
S-946	Nipple	05.01	2								
S-955	Bushing	05.01	2								
S-962	Plug	02.01	2								
S-962-E	Cock	05.01	3								
		08.01	2								
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S-965-E	Plug	07.06	2								
S-983	Bushing	12.01.2	6								
S-985-A	Plug	08.07.3	6								
S-995	Plug	01.09.1	2								
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		08.01	2								
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S-1004-1	Elbow	05.01	2								
S-1005-A	Elbow	12.01.2	6								
S-1008-1	Connector	05.01	2								
S-1021-1	Tee	05.01	2								
S-1023-A	Nut	02.01.2	4								
		05.01	3								
S-1027	Elbow	02.01.2	4								
		05.01	2								
S-1042-A	Tee	08.07.3	6								
S-1051	Nut	05.01	3								
S-1054	Tee	05.01	2								
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S-1400	Screw	10.06	2								
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S-2267	Screw	10.06	2								
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S-2902	Neck	08.10	1								
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S-16093	Bearing	08.03	2								
S-16103	Seal	08.11	2								