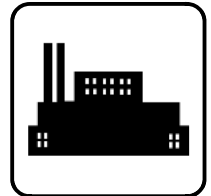


Service Parts

Engine



Engine Model:

General Motors 8.1 L Powertrain EPA Certified Engines

Generator Models:

80-150REZG
80/100ERES

KOHLER[®]
POWER SYSTEMS

ISO 9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6732 2/10

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Introduction

This manual lists service replacement parts for General Motors 8.1L engines.

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This manual includes the following main sections:

Table of Contents. Lists the sections of the manual.

Introduction (and other information sections). Contains introductory material about part numbers, illustrations, and hardware.

Group Parts Lists. List the part numbers of parts in the groups.

Numbering System Significance

This manual uses the following numbering systems:

Group Number. A unique number representing a parts group needed to assemble a generator set function. For example, Group 1 is the Cylinder Head group.

Part Number. The part number identifies an individual assembly, subassembly, component, or accessory kit.

Illustrations

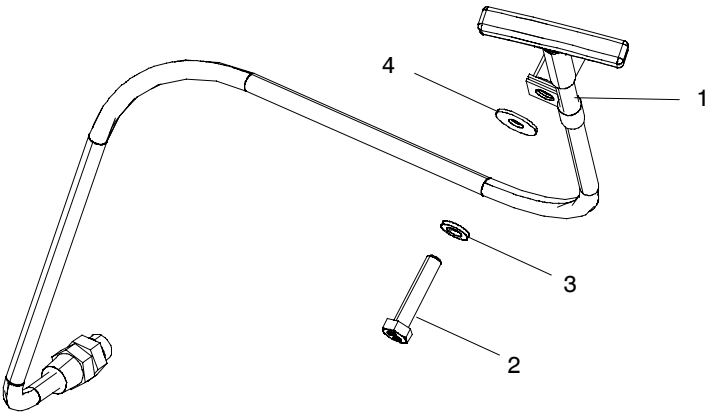
Illustrations (or exploded-view drawings) best representing the widest range of variations accompany most groups in this manual. Illustrations do not depict all details and may not show all parts. Do not substitute illustrations for assembly or disassembly.

How to Find Part Numbers

Use the following steps to locate a service replacement part.

1. **Identify the group** most likely to include the service part number.
2. **Page forward to locate the group** identified in step 1 or find the appropriate page in the Table of Contents.
3. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list**.

1-1: Dipstick

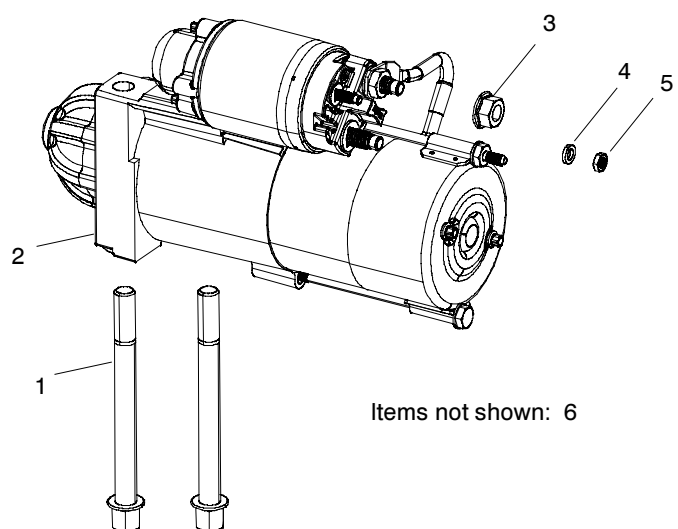


Items not shown: 5

38010914

Item	Part No.	Description	Qty.
1	GM52279	Dipstick w/tube	1
2	#	Bolt, M8-1.25 x 40 Hx Hd Gr 8.8	1
3	GM61733	Washer	1
4	GM75194	Washer, Flat 5/16 USS	1
5	GM75195	Washer, Flat 5/16 SAE	1

1-2: Starter

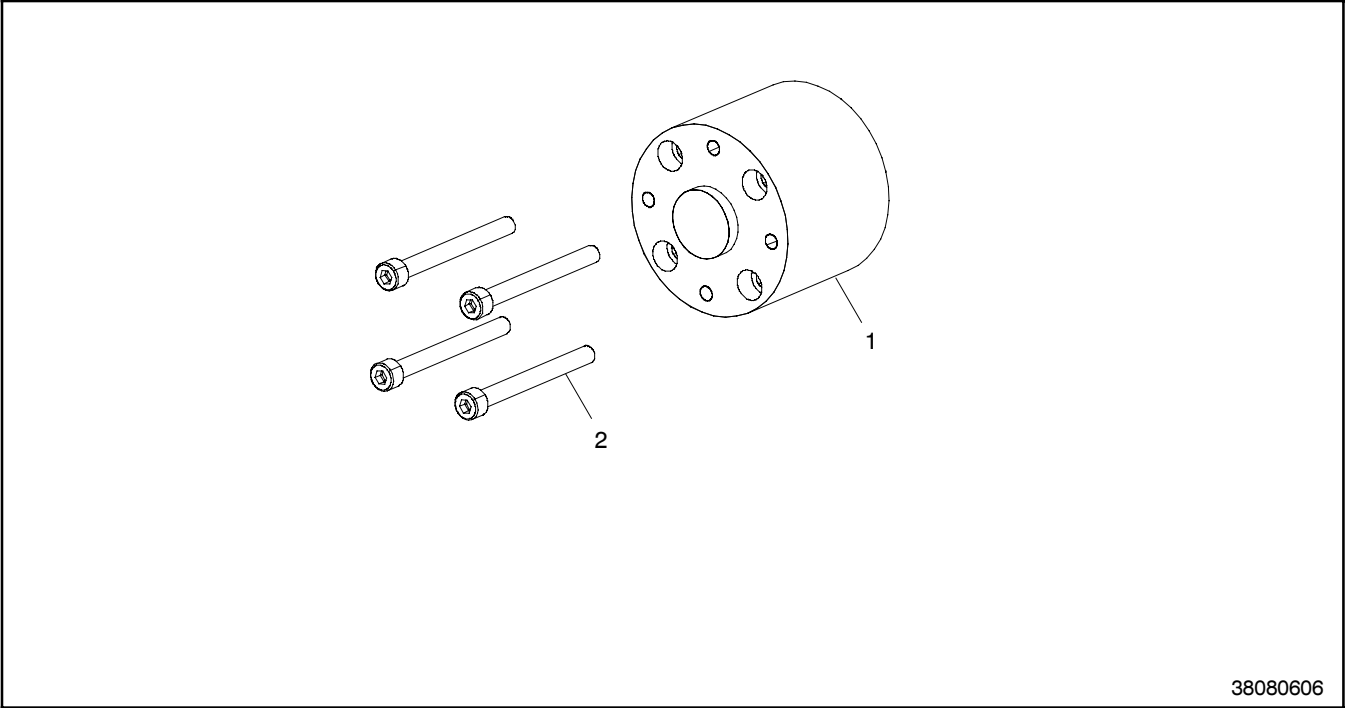


38080301

Item	Part No.	Description	Qty.
1	GM17378	Bolt, starter	2
2	GM59864	Starter	1
3	GM72312	Nut, M8-1.25 flange serrated	1
4	#	Washer, Lock M5	2
5	#	Nut, M5-.80	2
6	GM75165	Bolt, Starter Extended Thru	1

1-3: Fan Spacer

80-125 kW

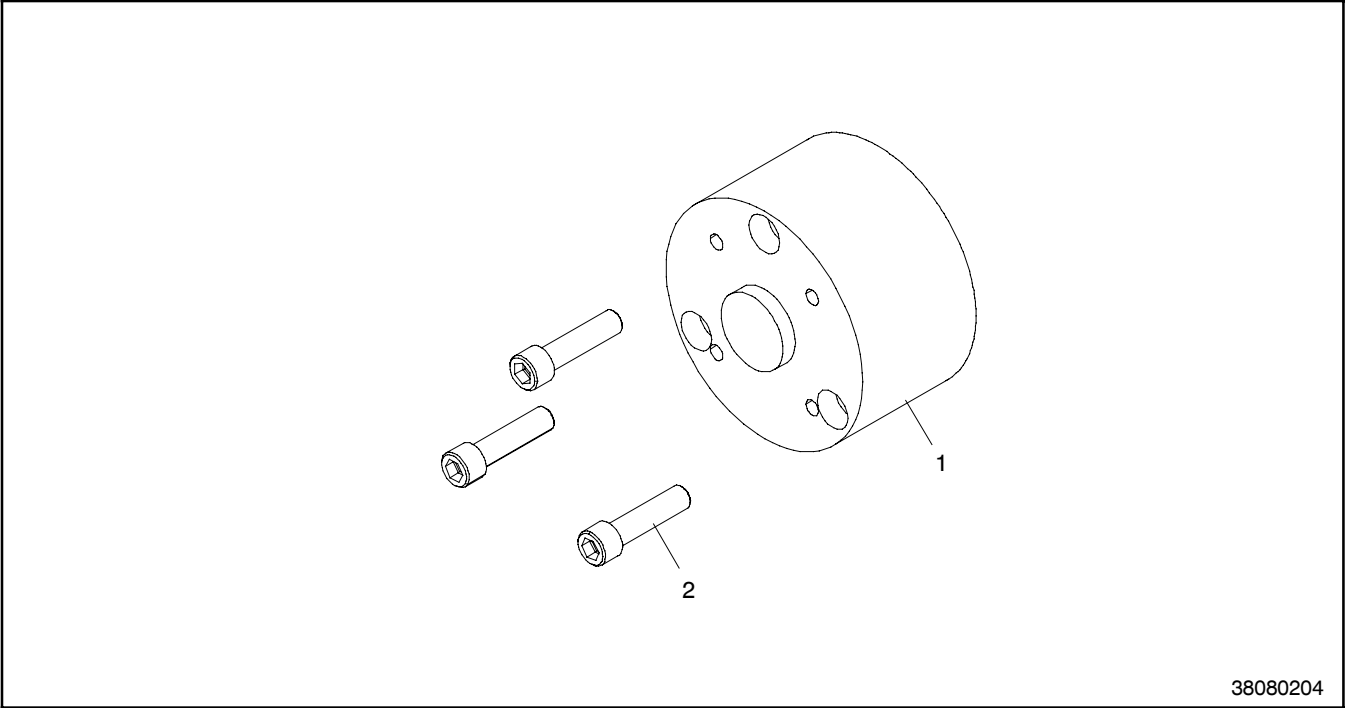


38080606

Item	Part No.	Description	Qty.
1	GM16147	Spacer, fan	1
2	#	Bolt, M8-1.25 x 80 Skt Hd Gr8.8	4

1-3: Fan Spacer

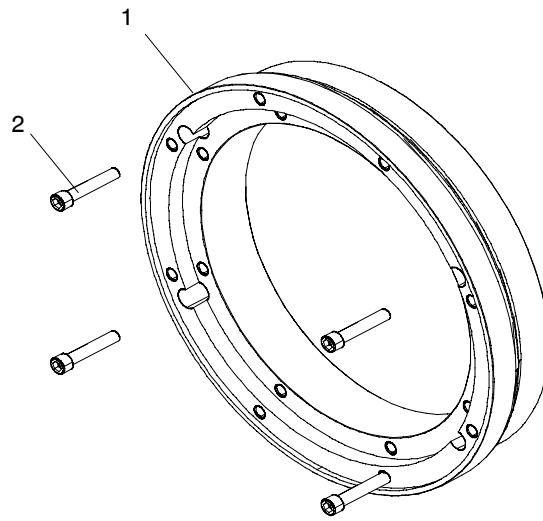
150 kW



38080204

Item	Part No.	Description	Qty.
1	GM75122	Spacer, Fan T CAC	1
2	GM75207	Bolt, 3/8-16 x 2 1/2 Socket Hd	3

1-5: Flywheel Adapter

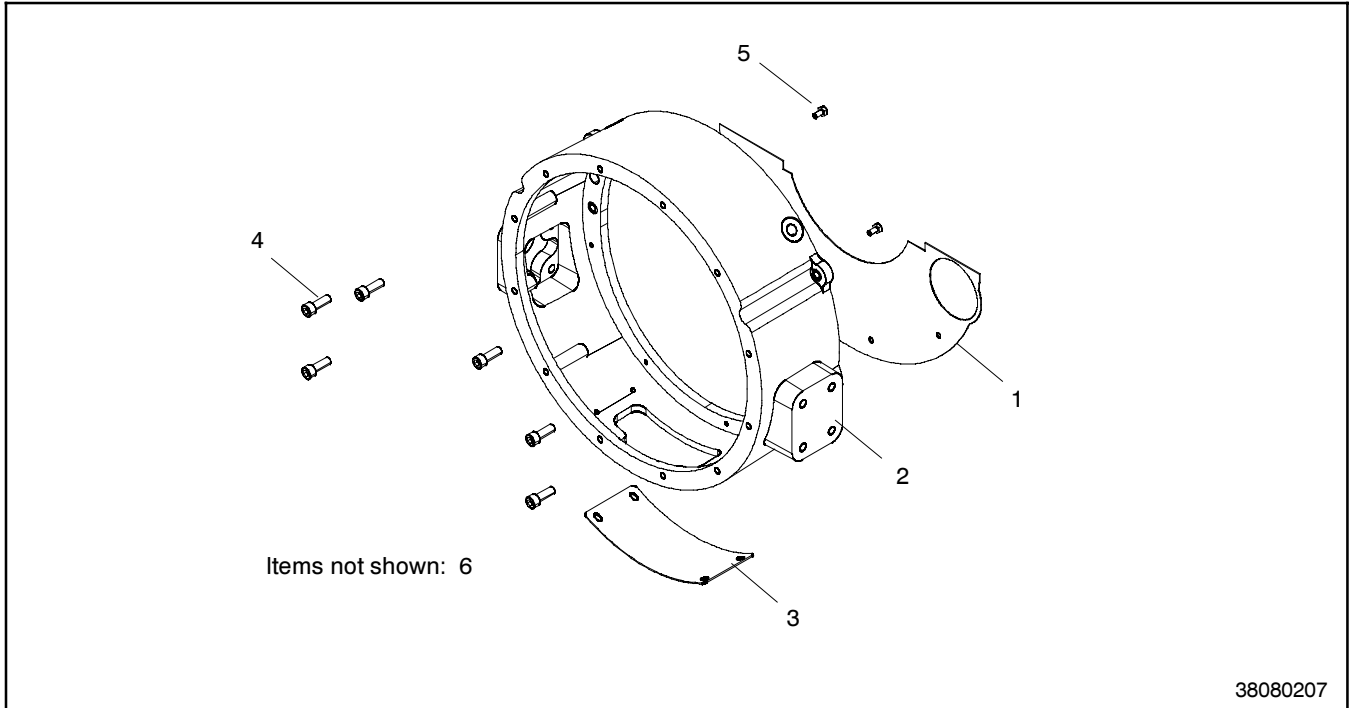


38000105

Item	Part No.	Description	Qty.
1	GM75117	Adapter, FF Flywheel	1
2	GM73567	Screw, Cap 3/8-16 x 2 Sk tHd Gr8	6

1-6: Flywheel/Housing

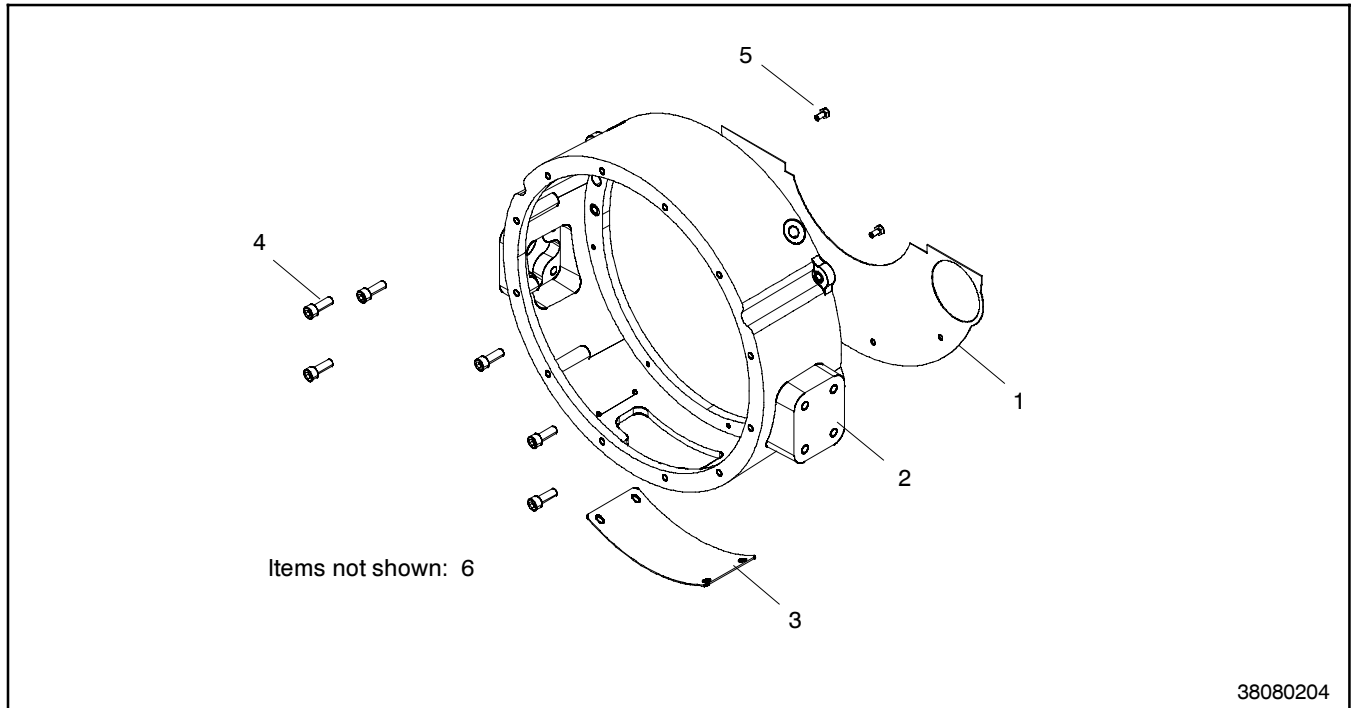
80-125 kW



Item	Part No.	Description	Qty.
1	GM75114	Plate, Cover F/W	1
2	GM16135	Housing, flywheel	1
3	GM19723	Plate, cover	1
4	GM75198	Bolt, M10-1.50 x 30 Sk Hd Gr8.8	6
5	#	Bolt, 1/4-20x1/2 Flange Hd Ser	8
6	#	Bolt, 5/8-18 x 1 Hx Hd Zinc	1

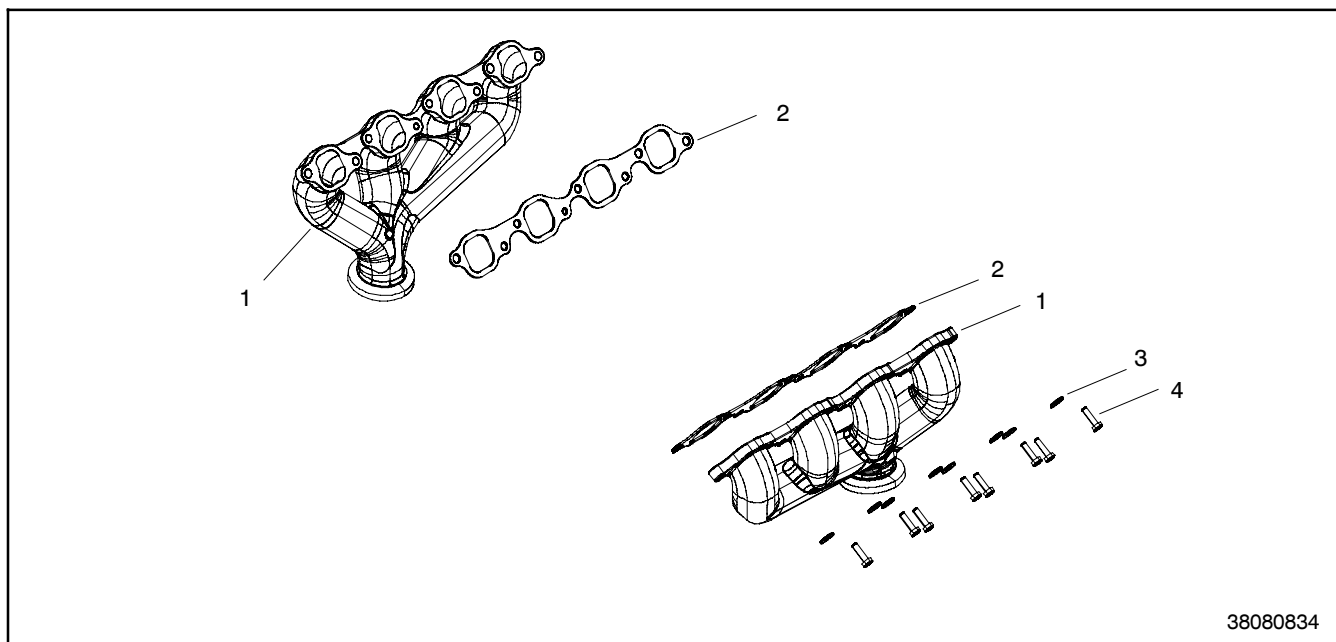
1-6: Flywheel/Housing

150 kW



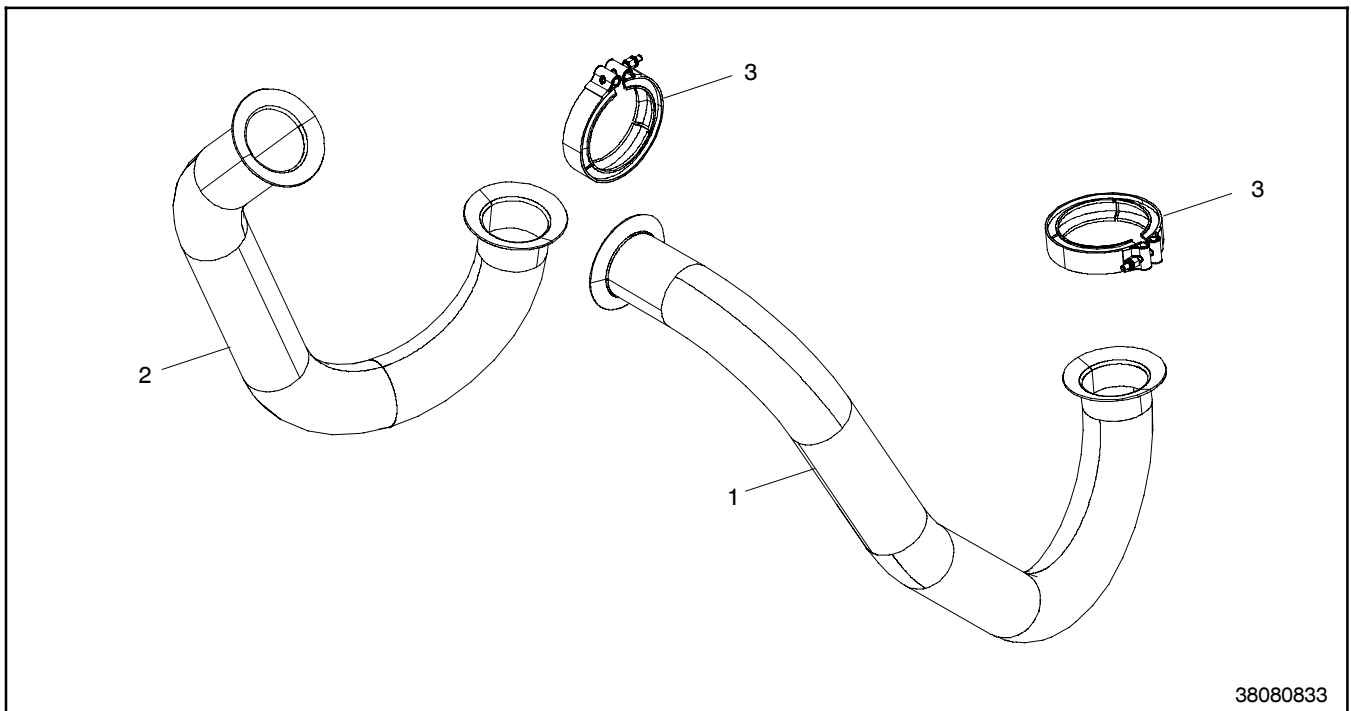
Item	Part No.	Description	Qty.
1	GM19723	Plate, Cover	1
2	GM75116	Housing, SAE3 Universal	1
3	GM75114	Plate, Cover Borg-Warner F/W	1
4	GM75198	Bolt, M10-1.50 x 30 Sk Hd Gr8.8	6
5	#	Bolt, 1/4-20x1/2 Flange Hd Ser	8
6	#	Bolt, 5/8-18 x 1 Hx Hd Zinc	1

1-7: Exhaust Manifold



Item	Part No.	Description	Qty.
1	GM75182	Manifold, Cast	2
2	GM19721	Gasket, exhaust manifold	2
3	#	Washer, Flat 5/16 Thick Hard	16
4	GM23738	Bolt, head head, M8-1.25 x 30	16

1-8: Exhaust Pipe

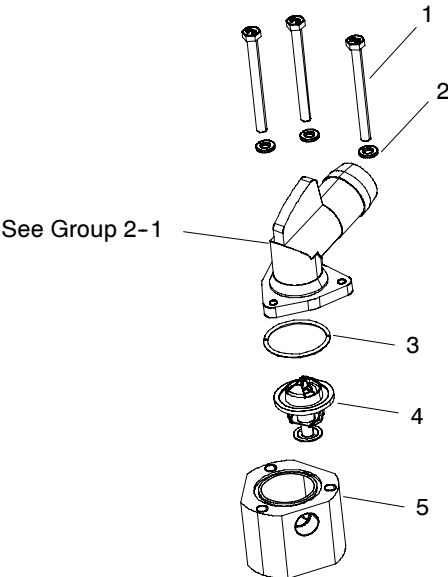


Item	Part No.	Description	Qty.
1	GM75184	Tube, RH Exhaust	1
2	GM75185	Tube, LH Exhaust	1
3	GM75191	Clamp, V-Band 3.87" dia	4

1-9: Thermostat

80/100 kW

80-125 kW

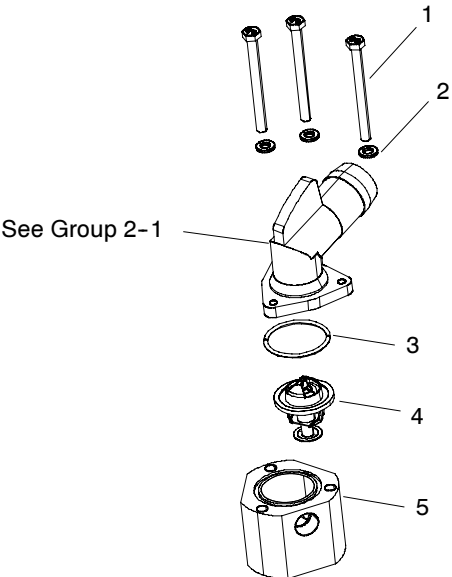


38080018

Item	Part No.	Description	Qty.
1	#	Bolt, M8-1.25 x 90, Hx Hd Gr8.8	3
2	GM61733	Washer	3
3	GM19727	O-ring, water sensor tube	1
4	GM19726	Thermostat, 160 degree	1
5	GM19725	Housing, sensor	1

1-9: Thermostat, continued

~~150 kW~~ 125/150 kW

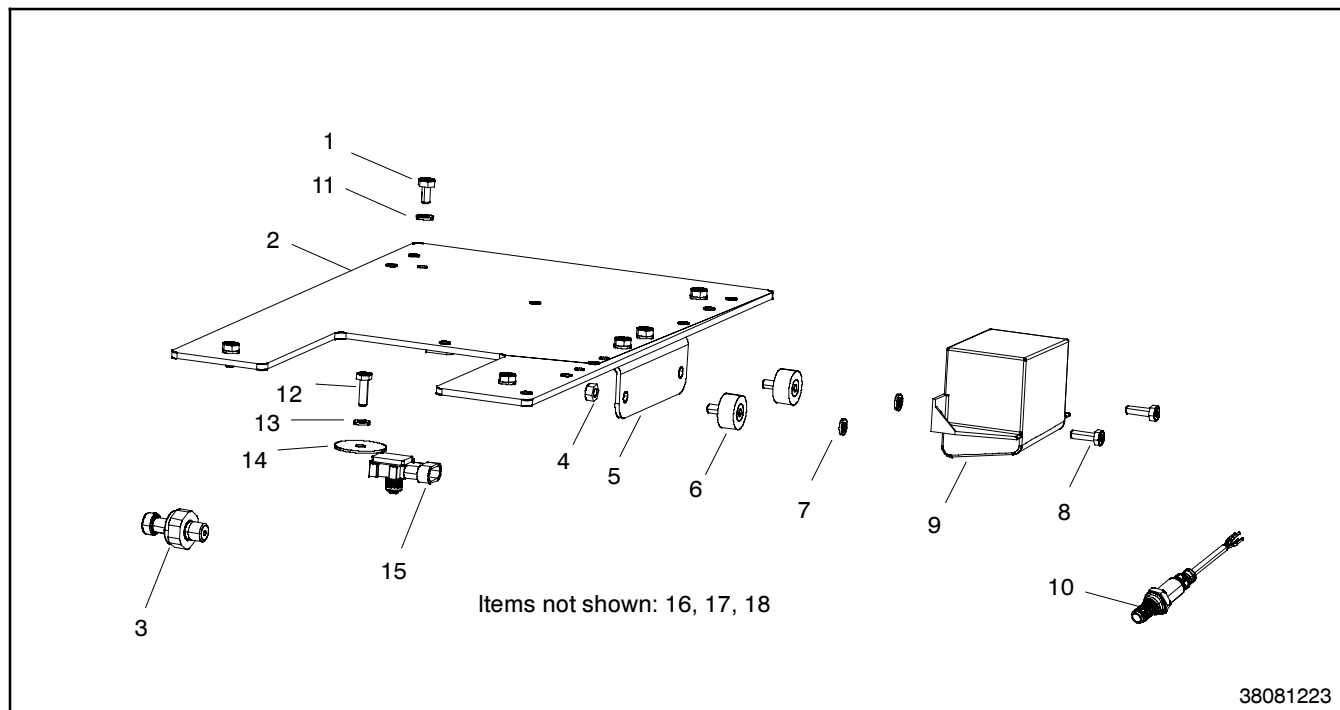


38080019

Item	Part No.	Description	Qty.
1	#	Bolt, M8-1.25 x 90, Hx Hd Gr8.8	3
2	GM61733	Washer, Lock 5/16	3
3	GM19727	O-ring, water sensor tube	1
4	GM18978	Thermostat, 195 degree	1
5	GM19725	Housing, Sensor	1

1-11: Electrical

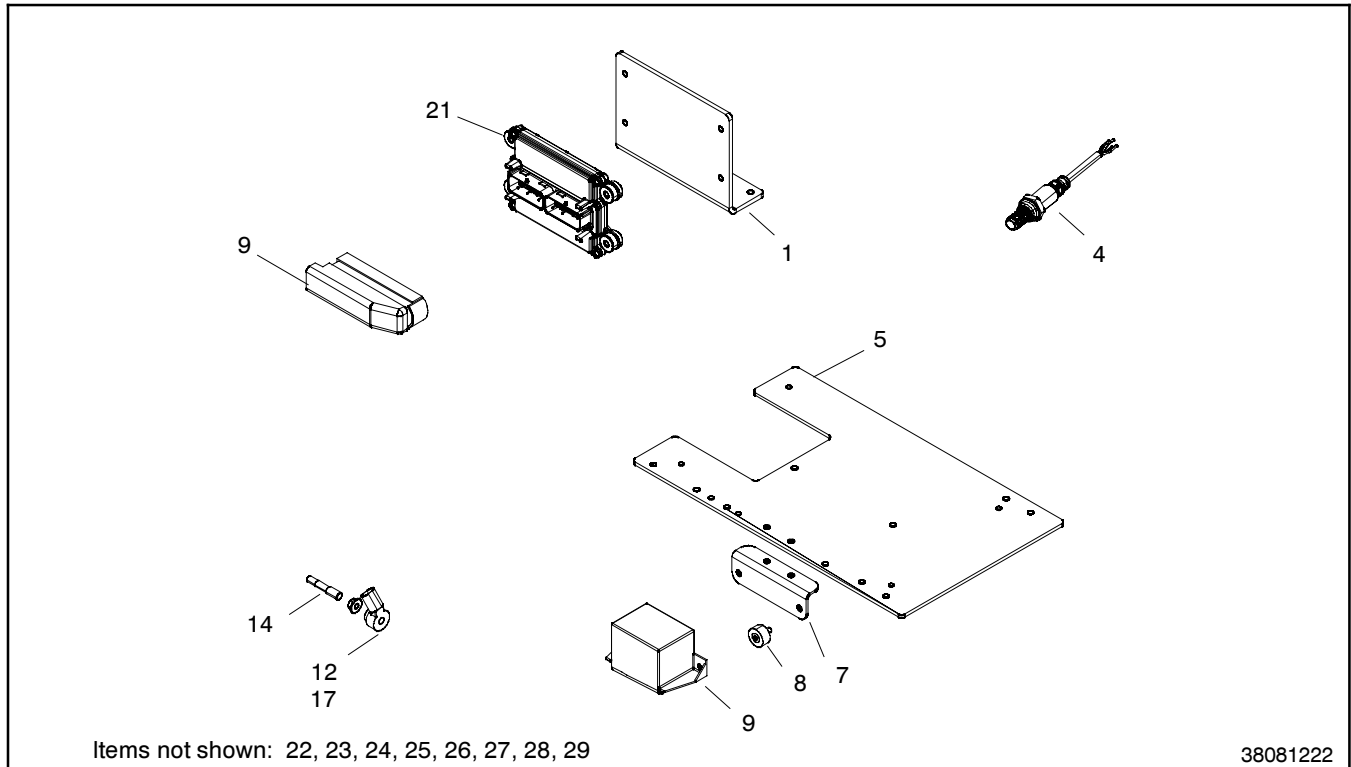
80/100 kW



Item	Part No.	Description	Qty.
1	#	Bolt, 1/4-20 x 1/2	4
2	GM75126	Plate, FS Mounting	1
3	GM72303	Sender, oil pressure	1
4	#	Nut, 1/4-20	4
5	GM29605	Bracket, relay box	1
6	GM29604	Isolator, relay box	2
7	GM28963	Washer, lock M6	3
8	#	Bolt, M6-1.0x20 Hx Hd Gr8	3
9	GM75167	Harness, NA Stat Bi-EPR	1
10	GM72292	Sensor, O2	1
11	GM24188	Washer, lock 1/4 in.	10
12	#	Bolt, M10-1.50 x 15 Hx Hd Gr8.8	1
13	GM72313	Washer, lock M10	1
14	#	Washer, 1/4 Fender 1 1/2"OD	1
15	GM28906	Sensor, map	1
16	#	Washer, Star 3/8	1
17	GM28961	Bolt, 1/4-20 x 3/4 in.hex grd. 5	2
18	GM75125	Bushing, 3/8MPT x 1/4FPT	1

1-11: Electrical, continued

125/150 kW

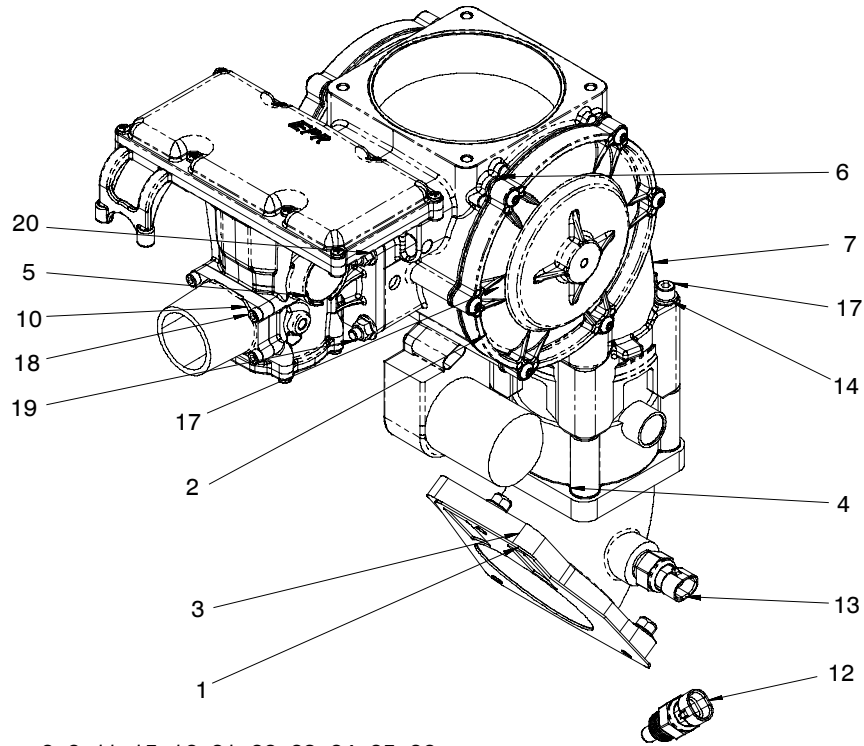


Item	Part No.	Description	Qty.
1	GM75168	Bracket, GCP Mount	1
4	GM72292	Sensor, O2	1
5	GM75126	Plate, FS Mounting	1
7	GM29605	Bracket, relay box	1
8	GM29604	Isolator, relay box	2
9	GM75135	Harness, GCP Stationary	1
12	GM72304	Sensor, knock	2
14	GM75169	Stud, Knock Sensor Mounting	2
17	GM75171	Guard, Knock Sensor	2
21	GM75134	ECM, GCP w/Knock	1
22	#	Nut, Flange 1/4-20 Serrated	8
23	#	Nut, 5/16-24 Flange Serrated	4
24	#	Bolt 1/4-20x5/8 Flange Hd Ser	4
25	#	Bolt, 1/4-20x3/8 Flange Hd Ser	2
26	#	Washer, Star 3/8	1
27	#	Bolt, 1/4-20x1-1/2 Flange Hd	4
28	#	Bolt, M10-1.50 X 15 Flg Hd Ser	1
29	#	Bolt, M6-1.0 x 20 Flange Head	4

ECM, GM8.1LT Dual Fuel
Part No: GM72588

1-13: Fuel System

80/100 kW



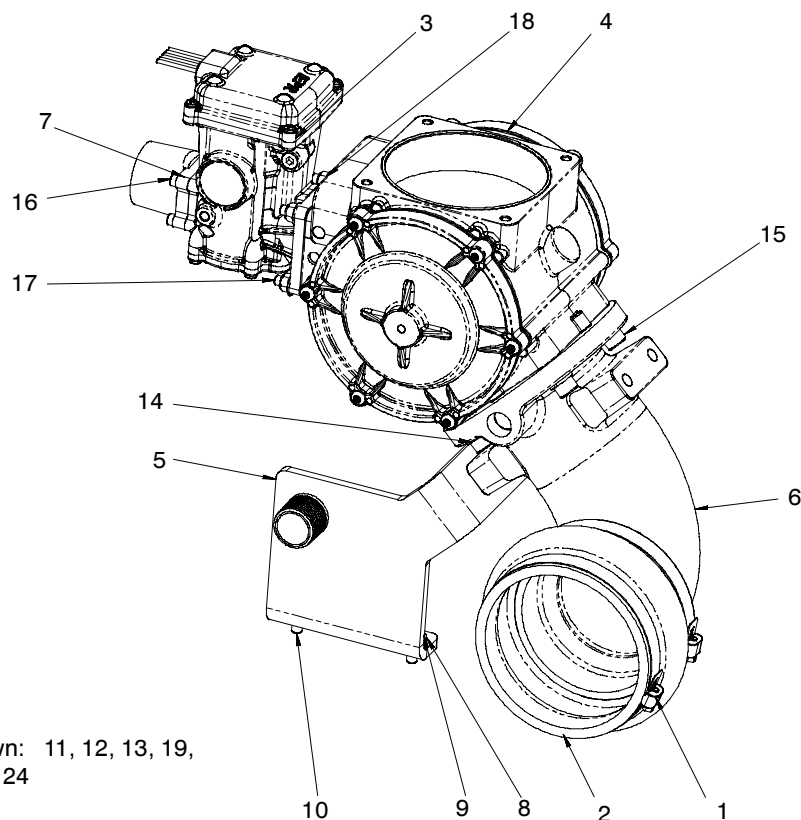
Items not shown: 8, 9, 11, 15, 16, 21, 22, 23, 24, 25, 26

38080459

Item	Part No.	Description	Qty.
1	GM19733	Gasket, intake man to adapter	1
2	GM29586	Valve, throttle, 60 mm	1
3	GM29591	Adapter, manifold (cast)	1
4	GM29592	Gasket (manifold adapter)	1
5	GM69496	EPR assembly	1
5	GM72587	EPR assembly (dual fuel)	1
6	GM69497	Mixer	1
7	GM69499	Adapter, mixer	1
8	GM69503	Seal	2
9	GM69504	O-ring	1
10	GM69509	Adapter, EPR, 1 1/4 NPT	1
11	GM69510	O-ring	2
12	GM29608	Sensor, coolant	1
13	GM29609	Sensor, inlet air	1
14	GM24188	Washer, lock 1/4 in.	4
15	GM69518	Bolt, M8x1.25 x 25 hxhd, gr. 8.8	4
16	GM69521	Washer, M8	4
17	GM69523	Bolt, 1/4-20 x 4 skt hd, gr. 5	4
18	GM69524	Bolt, M4 x .70 x 16 skt hd	4
19	GM69525	Stud, M6 x 1.0 x 30	4
20	GM69526	Nut, M6 hex, flanged	7
21	GM16158	Hose, PCV, 3/8"	1
22	GM38939	Fitting, 3/8 MPT plug, Hex	1
23	GM73579	Ftg, 1/4MPT x 1/4 FPT x 90 Elb	1
24	GM38928	Ftg, 1/4MPT x 3/8 hose barb 90	1
25	GM69488	Clamp, hose 3/8 in. PCV hose	2
26	GM75132	Washer, M6 conical	4

1-13: Fuel System, continued

125/150 kW

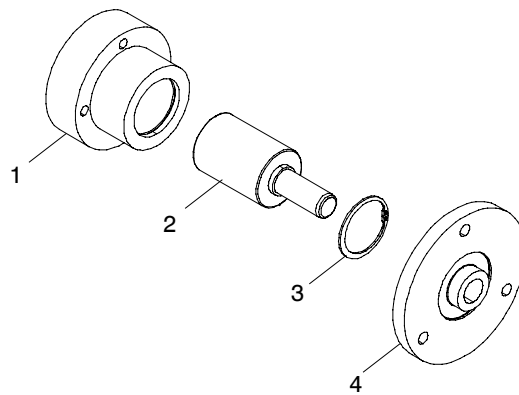


38080457

Item	Part No.	Description	Qty.
1	GM28915	Clamp, hose, 5 in.	2
2	GM66214	Hose, hump, intake 4 x 4	1
3	GM69493	EPR assembly	1
3	GM72588	EPR assembly (dual fuel)	1
4	GM69497	Mixer	1
5	GM69501	Bracket, mixer support with port	1
6	GM69502	Elbow, mixer to turbo	1
7	GM69509	Adapter, EPR, 1 1/4 NPT	1
8	GM28960	Washer, flat SAE	2
9	GM24188	Washer, lock 1/4 in.	2
10	GM28961	Bolt, 1/4-20 x 3/4 in. hex gr. 5	2
11	GM69514	Washer, 3/8 flat	2
12	GM69515	Bolt, 3/8-16 x 3/4 hex head, gr. 5	2
13	GM69516	Washer, 3/8	2
14	GM69521	Washer, M8	4
15	GM69522	Bolt, M8 x 1.25 x 25 hex head	4
16	GM69524	Bolt, M4 x .70 x 16 skt hd	4
17	GM69525	Stud, M6 x 1.0 x 30	4
18	GM69526	Nut, M6 hex, flanged	4
19	GM16158	Hose, PCV, 3/8"	1
20	GM38939	Fitting, 3/8 MPT plug, Hex	1
21	GM73579	Ftg, 1/4MPT x 1/4 FPT x 90 Elb	1
22	GM38928	Ftg, 1/4MPT x 3/8 hose barb 90	1
23	GM69488	Clamp, hose 3/8 in. PCV hose	2
24	GM72329	E480 EPR kit (includes items 3,4,7,16-18	

1-14: Housing Bearing Assembly

150 kW

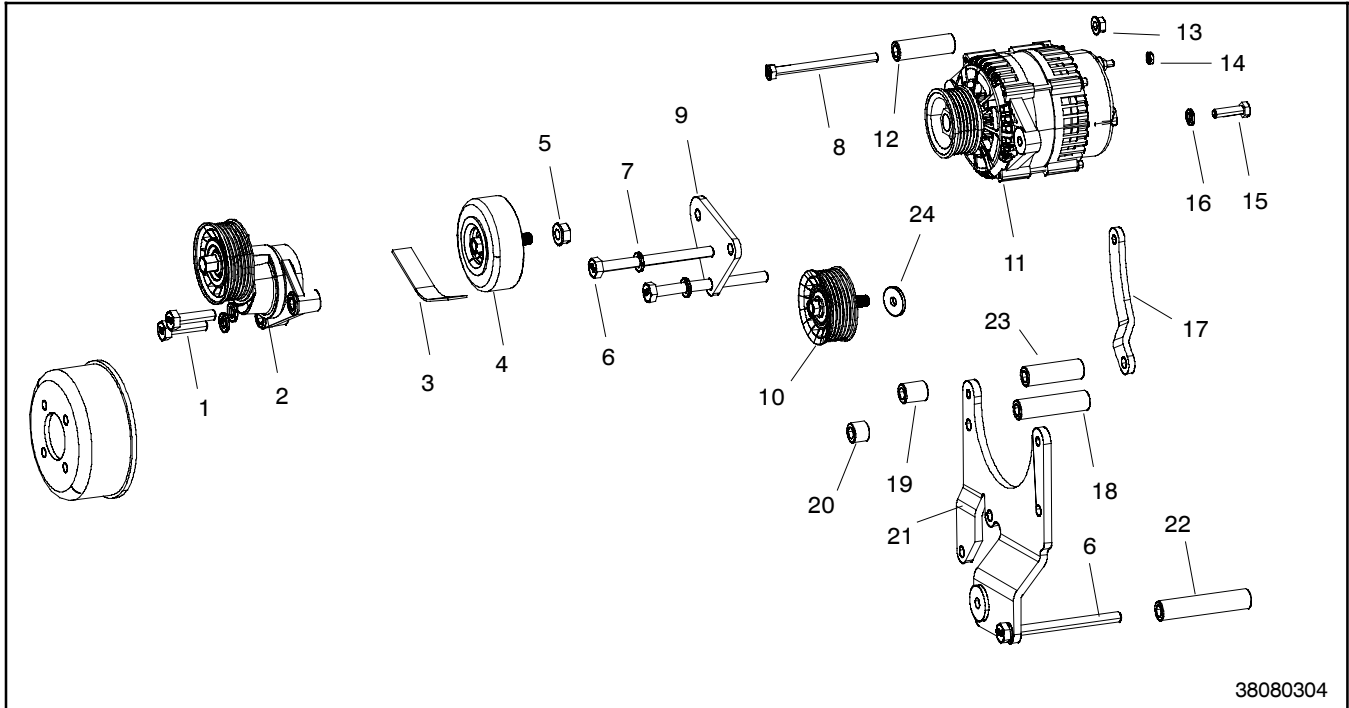


32000485

Item	Part No.	Description	Qty.
1	GM75120	Housing, Bearing	1
2	GM75209	Bearing	1
3	GM75119	Ring, Retaining	1
4	GM75118	Hub, Fan (Hi Fan)	1

1-15: Alternator

80/100 kW

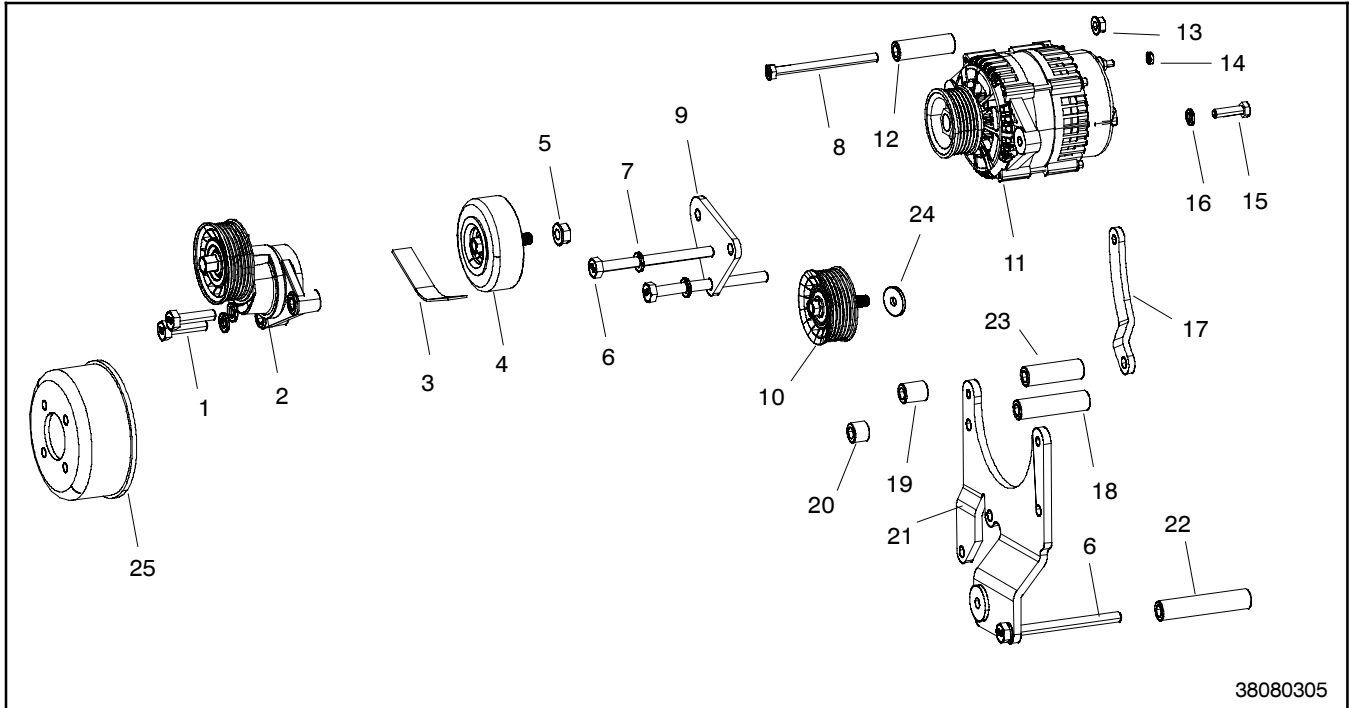


38080304

Item	Part No.	Description	Qty.
1	GM73559	Bolt	2
2	GM19746	Pulley, tensioner	1
3	GM65427	Fan belt	1
4	GM19741	Pulley, idler	1
5	GM23739	Nut, M10 x 1.5	2
6	GM23740	Bolt, M10-1.5 x 120, gr. 5	3
7	GM72313	Washer, lock M10	5
8	#	Bolt, M8-1.25 x 110 Hx Hd Gr8.8	1
9	GM23423	Plate, idler	1
10	GM16121	Pulley, idler	1
11	GM16180	Alternator, 70 amp	1
12	GM61733	Washer	1
13	GM19747	Spacer, alt. mtg .375 IDx2.19 in.	1
14	GM72312	Nut, M8-1.25 flange serrated	1
15	GM28959	Nut, M6-1.0	1
16	GM23738	Bolt, head head, M8-1.25 x 30	1
17	GM19748	Brace, alternator	1
18	GM19742	Spacer, .437 ID x 2.343 in.	1
19	GM23420	Spacer, idler long	1
20	GM23421	Spacer, idler short	1
21	GM19740	Plate, alternator mounting	1
22	GM19744	Spacer, .437 ID x 3.718 in.	1
23	GM19743	Spacer, .437 ID x 2.906 in.	1
24	GM23422	Washer, idler	1

1-15: Alternator

125 kW

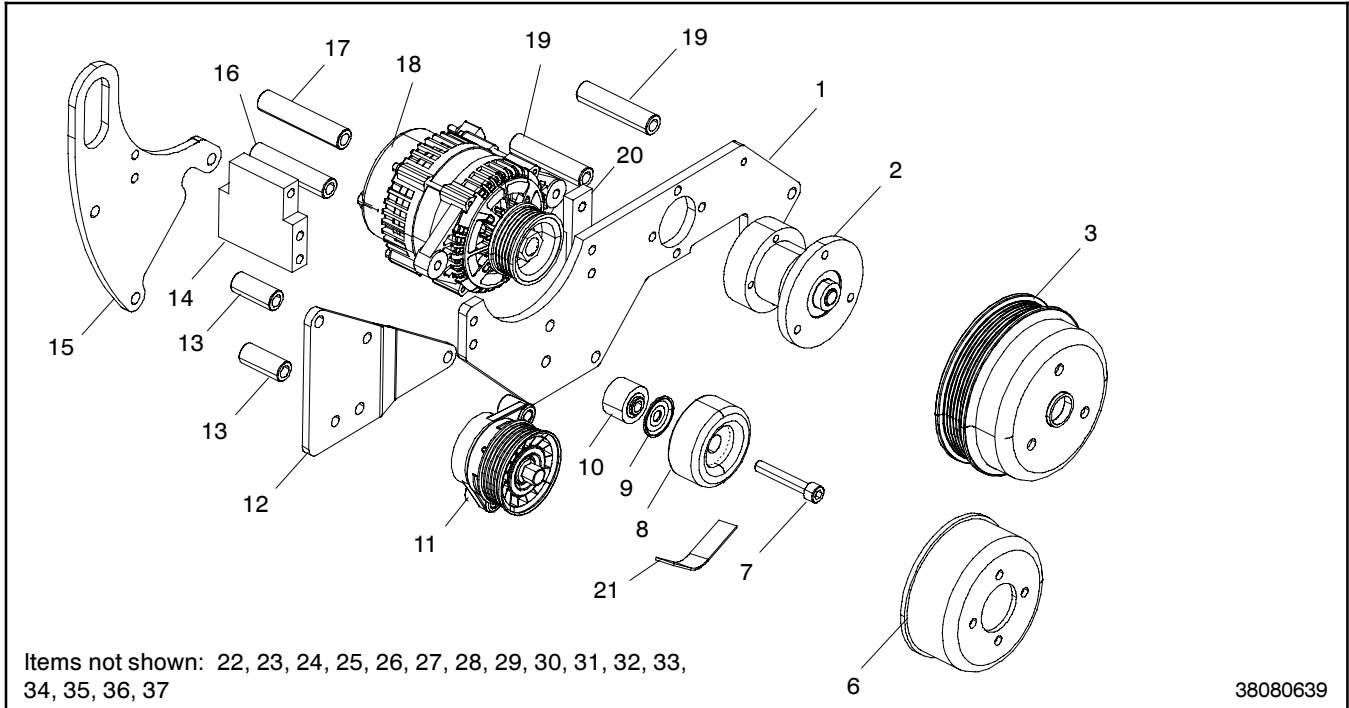


38080305

Item	Part No.	Description	Qty.
1	GM73559	Bolt	2
2	GM19746	Pulley, tensioner	1
3	GM16132	Belt, fan standard	1
4	GM19741	Pulley, idler	1
5	GM23739	Nut, M10 x 1.5	2
6	GM23740	Bolt, M10-1.5 x 120, gr. 5	3
7	GM72313	Washer, lock M10	5
8	#	Bolt, M8-1.25 x 110 Hx Hd Gr8.8	1
9	GM23423	Plate, idler	1
10	GM16121	Pulley, idler	1
11	GM16180	Alternator, 70 amp	1
12	GM19747	Spacer, alt mtg .375 ID x 2.19 in.	1
13	GM72312	Nut, M8-1.25 flange serrated	1
14	GM28959	Nut, M6-1.0	1
15	GM23738	Bolt, head head, M8-1.25 x 30	1
16	GM61733	Washer	1
17	GM19748	Brace, alternator	1
18	GM19742	Spacer, .437 ID x 2.343 in.	1
19	GM23420	Spacer, idler long	1
20	GM23421	Spacer, idler short	1
21	GM19740	Plate, alternator mounting	1
22	GM19744	Spacer, .437 ID x 3.718 in.	1
23	GM19743	Spacer, .437 ID x 2.906 in.	1
24	GM23422	Washer, idler	1
25	GM66202	Pulley, waterpump/fan	1

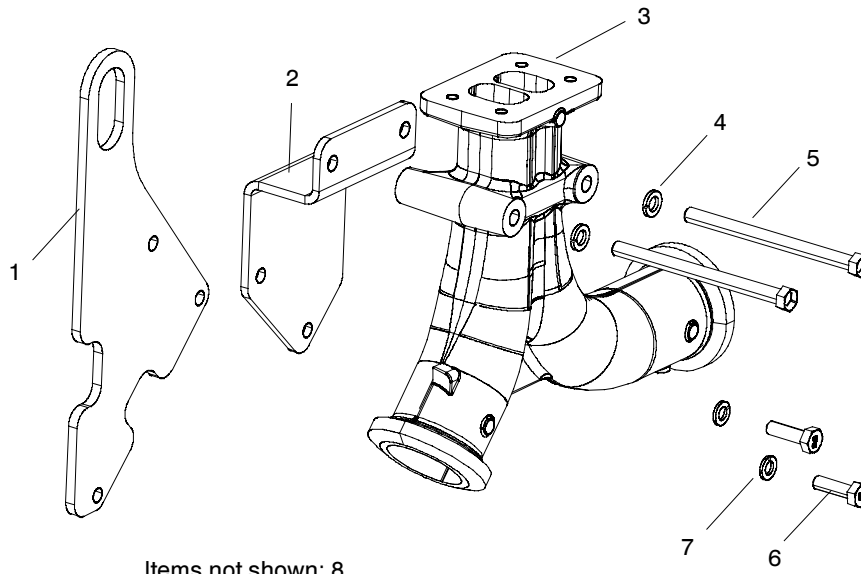
1-15: Alternator, continued

150 kW



Item	Part No.	Description	Qty.
1	GM66228	Plate, hi-fan mounting	1
2	GM66203	Bearing housing, assy., hub (See Group 1-14 for parts)	1
3	GM66204	Pulley, hi-fan drive	1
6	GM66202	Pulley, waterpump/fan	1
7	#	Bolt, M10 1.5 x 60 SktHd Gr8	2
8	GM39234	Pulley, idler	1
9	GM39236	Dust shield, idler	1
10	GM66232	Spacer, idler	1
11	GM19746	Pulley, tensioner	1
12	GM66235	Plate, tensioner	1
13	GM66233	Spacer, tension plate	2
14	GM66230	Spacer, block	1
15	GM66229	Eye, lifting, front	1
16	GM66225	Spacer, .437 ID x 3.375	1
17	GM66226	Spacer, .437 ID x 3.688	1
18	GM16180	Alternator, 70 amp	1
19	GM66234	Spacer, fan plate	2
20	GM66231	Support, alternator	1
21	GM66205	Belt, poly-6V, 97.5 in.	1
22	GM23738	Bolt, hex head, M8-1.25 x 30	3
23	GM72312	Nut, M8-1.25 flange serrated	5
24	GM61733	Washer	5
25	GM69595	Bolt, 5/16-18	3
26	GM72313	Washer, lock M10	8
27	GM23739	Nut, M10 x 1.5	3
28	#	Bolt, M10-1.50 x 75 Hx Hd Gr8.8	2
29	#	Bolt, M8-1.25 x 110 Hx Hd Gr8.8	1
30	GM23740	Bolt, M10-1.5 x 120, gr. 5	2
31	#	Bolt, M10-1.50 x 25 Hx Hd Gr8.8	1
32	#	Bolt, M10-1.50 x 50 Hx Hd Gr8.8	2
33	#	Bolt, 3/8-16 x 1 Skt Hd Gr 8	3
34	#	Bolt, M10-1.50x110 Hx Hd Gr8.8	2
35	#	Bolt, M8-1.25x120Hx Hd Gr 8.8	2
36	#	Bolt, 5/16-18x1 Button Hd Gr 8	1
37	GM72317	Washer, flat M10	2

1-18: Turbo/Exhaust Adapter

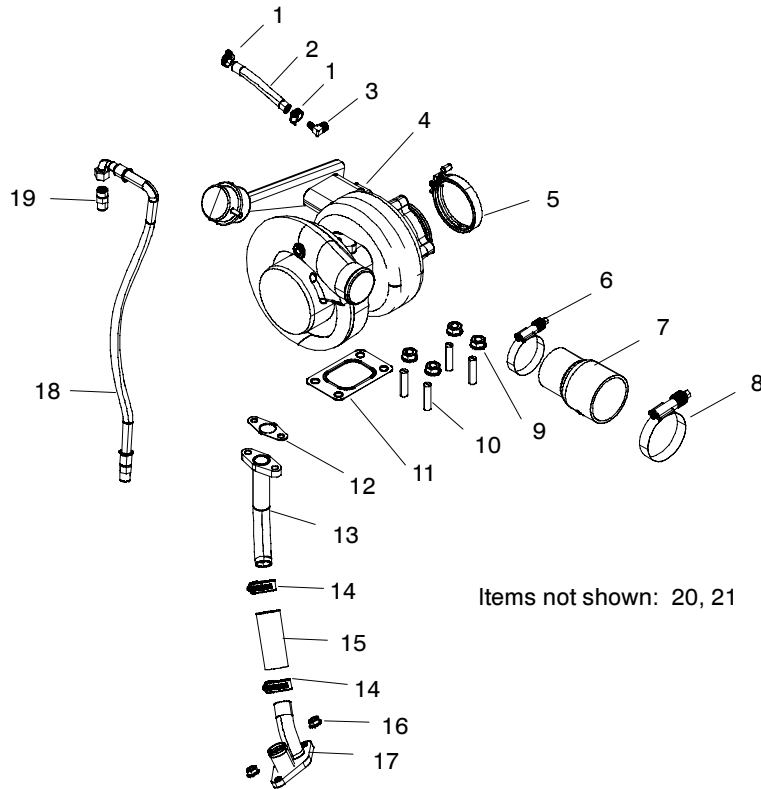


38080838

Item	Part No.	Description	Qty.
1	GM75188	Bracket, Lifting Eye	1
2	GM75189	Bracket, Exhaust Support	1
3	GM75183	Adapter, Turbo Exh Casting	1
4	#	Washer, Flat 7/16" (Hardened)	2
5	#	Bolt, 7/16-14 x 6 Hex Head	2
6	#	Bolt, M10-1.50 x 25 Hx Hd Gr8.8	3
7	GM72313	Washer, lock M10	3
8	#	Nut, 7/16-14 Flange head	2

1-20: Turbocharger

125/150 kW

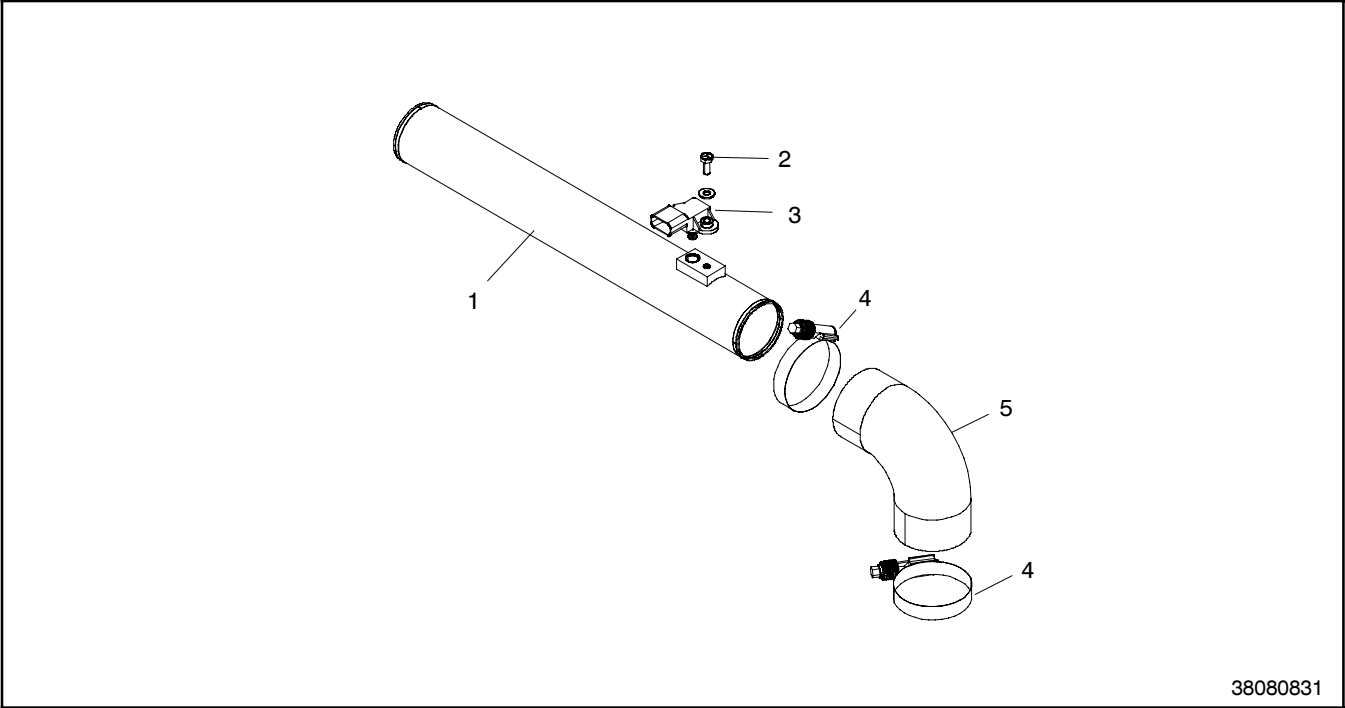


38080458

Item	Part No.	Description	Qty.
1	GM28892	Clamp, 3/8 in. (M4)	2
2	GM28916	Hose, pushlock, 1/4 in. ID x 1/2 in OD, 11 in.	12
3	GM29583	Fitting, 1/8 MPT x 1/4 hosebarb 90 deg. elbow	1
4	GM28897	Turbocharger	1
5	GM28930	Clamp, V-band, 2 3/4 in.	1
6	GM29603	Clamp, 1 9/16-2 1/2 in.	1
7	GM28914	Hose	1
8	GM29601	Clamp, 2 3/4-3 5/8 in.	1
9	GM23739	Nut, M10 x 1.5	4
10	GM72315	Stud, M10-1.50 x 40, grade 8.8	4
11	GM28928	Gasket, turbocharger	1
12	GM28929	Gasket, oil drain	1
13	GM28899	Plate assembly, oil drain	1
14	GM28893	Clamp, hose, 1 1/4 in.	2
15	GM28901	Hose, oil drain, 7/8 in. ID, 3 in.	1
16	GM72312	Nut, M8-1.25 flange serrated	2
17	GM28900	Breather assembly, oil drain pipe	1
18	GM28902	Hose, oil supply	1
19	GM28903	Fitting, oil supply turbo	1
20	GM69518	Bolt, M8x1.25 x 25 hx hd, gr. 8.8	2
21	GM61733	Washer	2

1-21: Intake Crossover

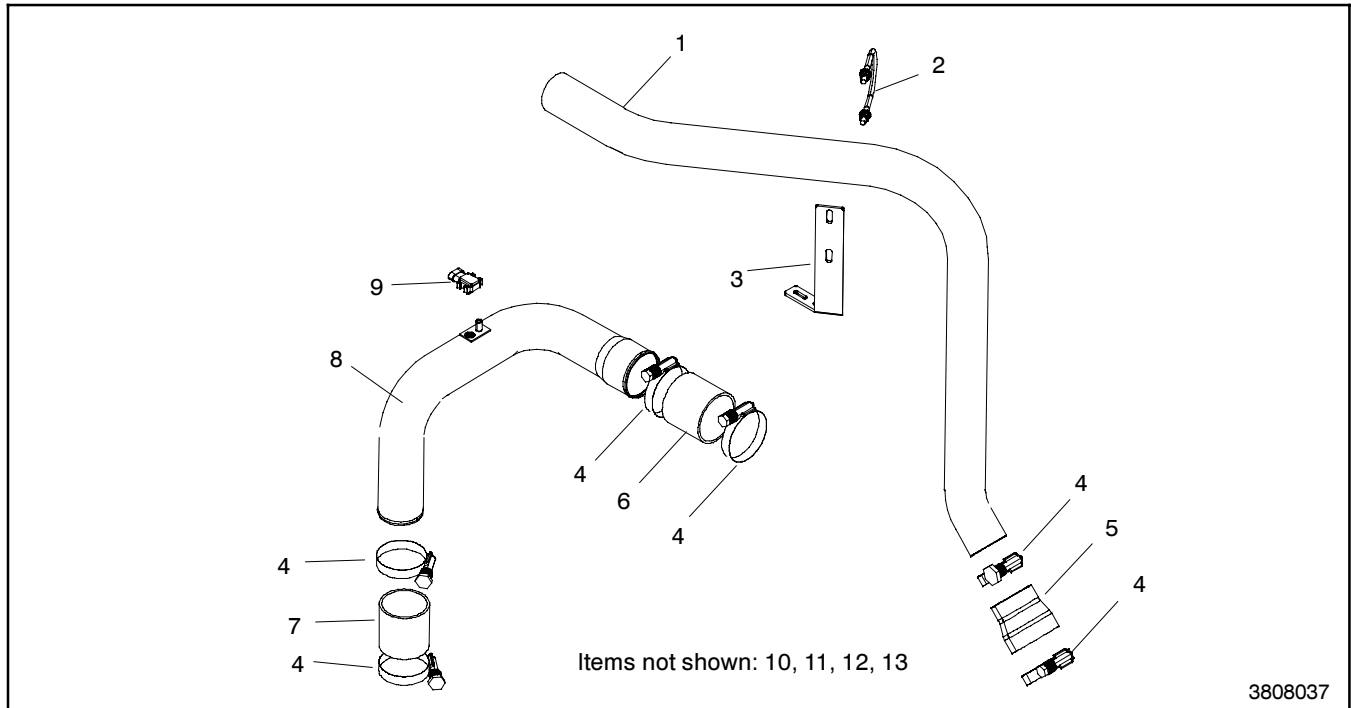
125 kW



Item	Part No.	Description	Qty.
1	GM75143	Tube, Turbo to Throttle Body	1
2	#	Bolt 1/4-20x5/8 Flange Hd Ser	1
3	GM72302	Sensor, T map 3-bar	1
4	GM29601	Clamp, 2 3/4-3 5/8 in.	2
5	GM29600	Elbow, Rubber 90 Tube to Throttle	1

1-22: Charge Air Cooler Tubing

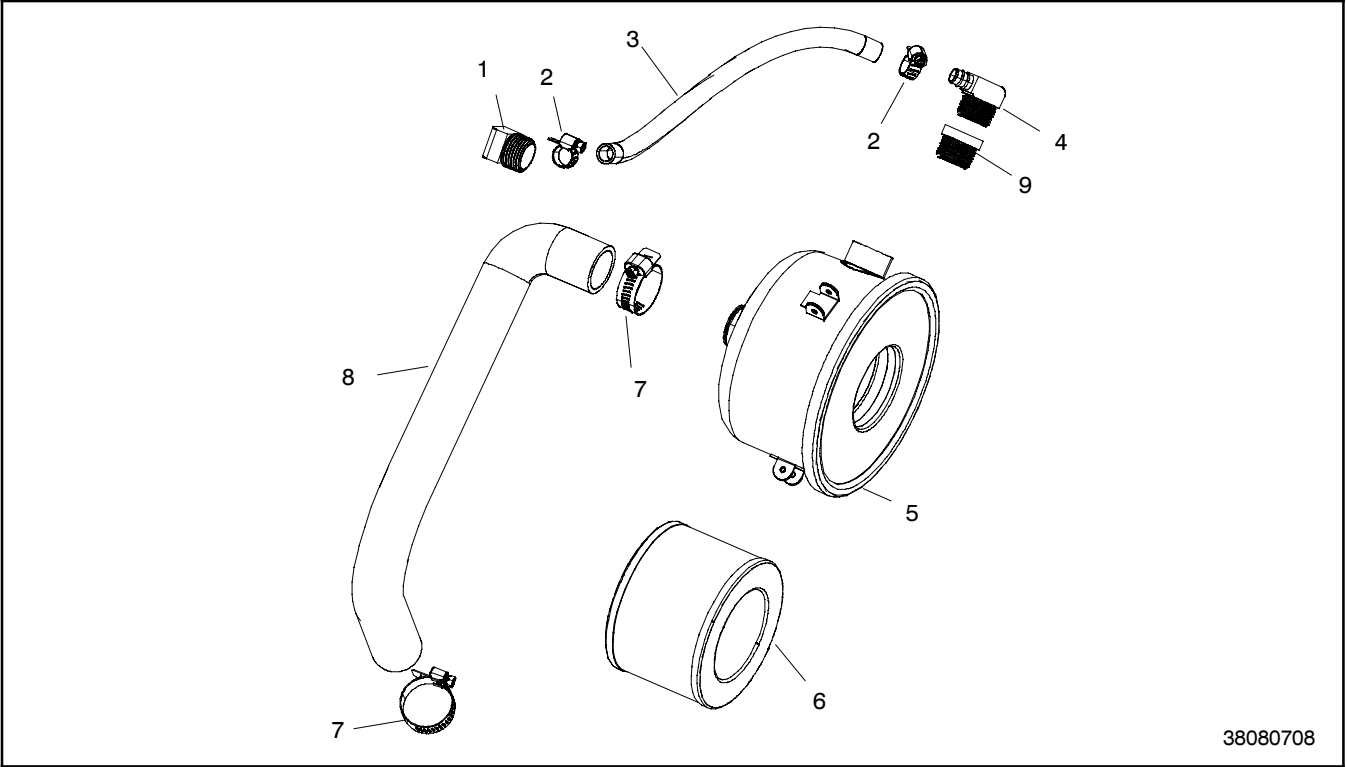
150 kW



Item	Part No.	Description	Qty.
1	GM66239	Pipe, Turbo-CAC	1
2	GM66243	U-Bolt 2 1/2" OD 5/16-18 thread	1
3	GM66244	Bracket, CAC Pipe Support	1
4	GM29601	Clamp, 2 3/4-3 5/8 in.	6
5	GM66240	Hose Silicone Red 2-1/2 x 3	1
6	GM66242	Hose Silicone 3" ID x 3" LG	1
7	GM66241	Hose Silicone 2-3/4 ID x 3" LG	1
8	GM75187	Pipe, CAC to Intake	1
9	GM72302	Sensor, T Map 3-Bar	1
10	GM28960	Washer, Flat 1/4 SAE	2
11	GM24188	Washer, Lock 1/4 SAE	2
12	GM65474	Bolt, 1/4-20 x 1 Hx Hd Grade 5	2
13	#	Bolt 1/4-20x5/8 Flange Hd Ser	1

1-23: Breather

125/150 kW

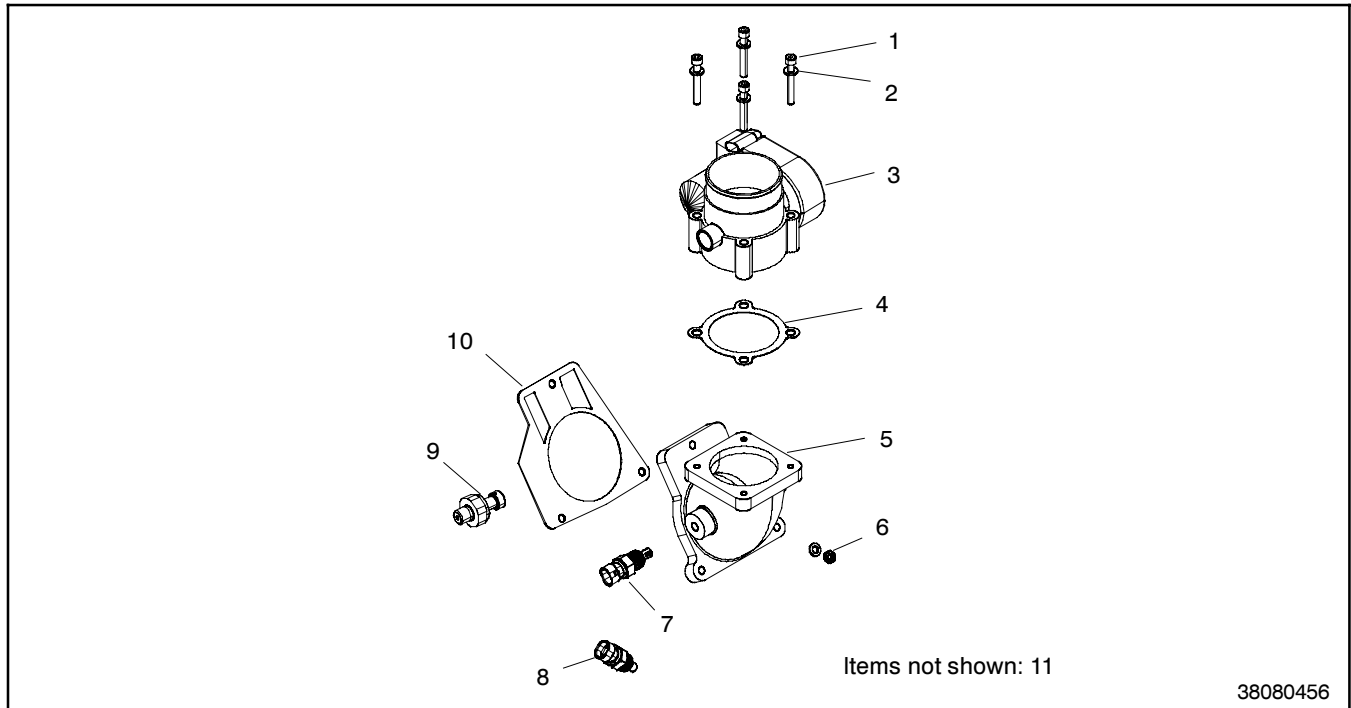


38080708

Item	Part No.	Description	Qty.
1	GM28949	Ftg, 5/8 bd hse x 3/8 MPT x 90	1
2	GM28893	Clamp, hose, 1 1/4 in.	2
3	GM24351	Hose, elbow	1
4	GM29847	Fitting, 1/2 x 5/8 in., 90 deg. elb	1
5	GM73575	Separator filter assembly	1
6	GM70877	Filter, GM 8.1L Turbo Poly, CCV	1
7	GM28895	Clamp, hose, 13/16-1 1/2 in.	2
8	GM75186	Hose, 1" Molded Breather	1
9	GM16213	Bushing, reducing 3/4"-1/2"	1
8	TBD	Hose, Breather Engine model year 2010 and newer	1

1-24: Throttle Body

125/150 kW

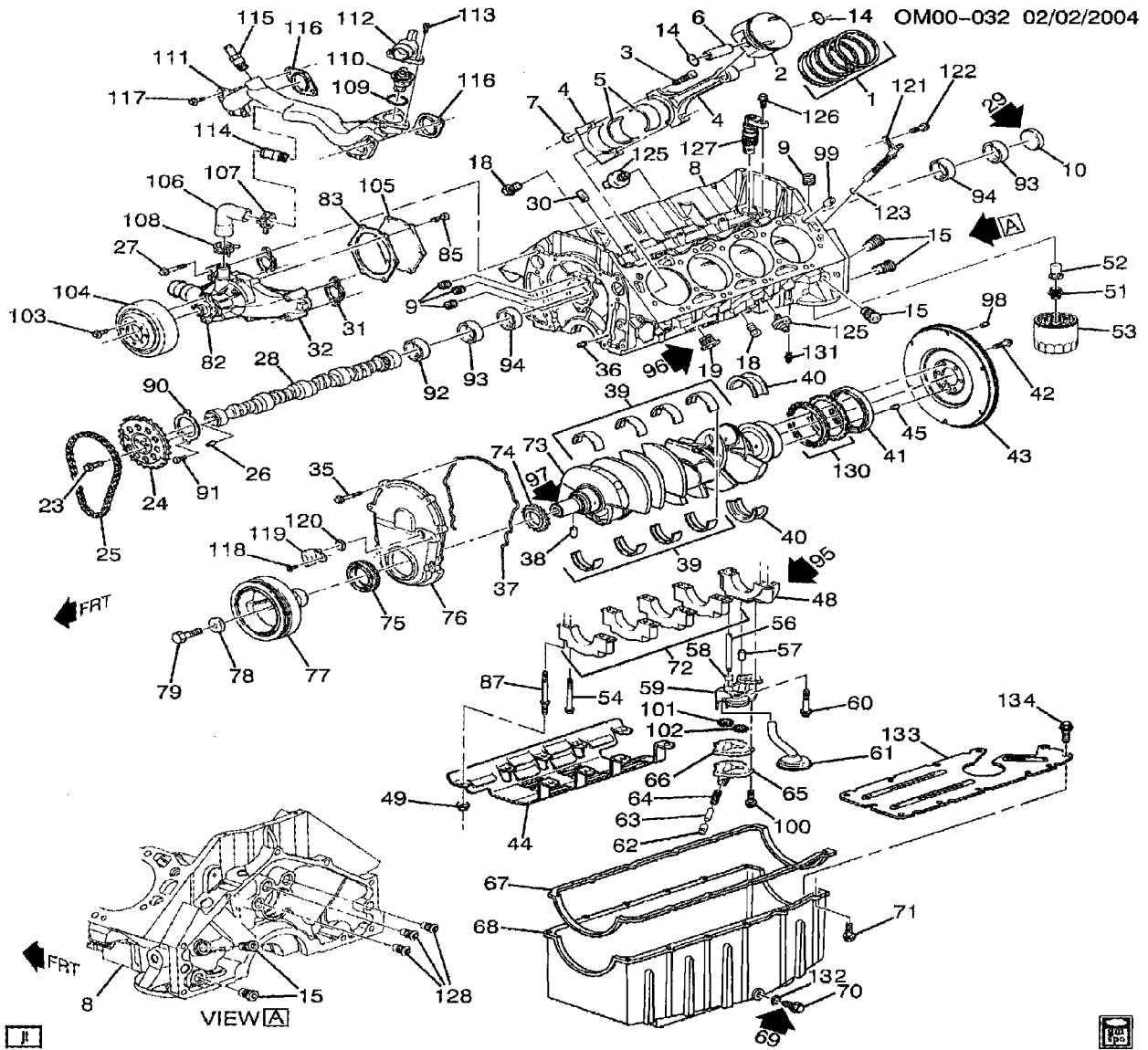


38080456

Item	Part No.	Description	Qty.
1	#	Screw, 1/4-20x1 3/4 SktCap USS	4
2	GM24188	Washer, lock 1/4 in.	4
3	GM29586	Valve, throttle, 60 mm	1
4	GM29592	Gasket (manifold adapter)	1
5	GM29591	Adapter, manifold (cast)	1
6	GM69526	Nut, M6 hex, flanged	3
7	GM29609	Sensor, inlet air	1
8	GM29608	Sensor, coolant	1
9	GM72303	Sender, oil pressure	1
10	GM19733	Gasket, intake man to adapter	1
11	GM75125	Bushing, 3/8MPT X 1/4FPT	1

Notes

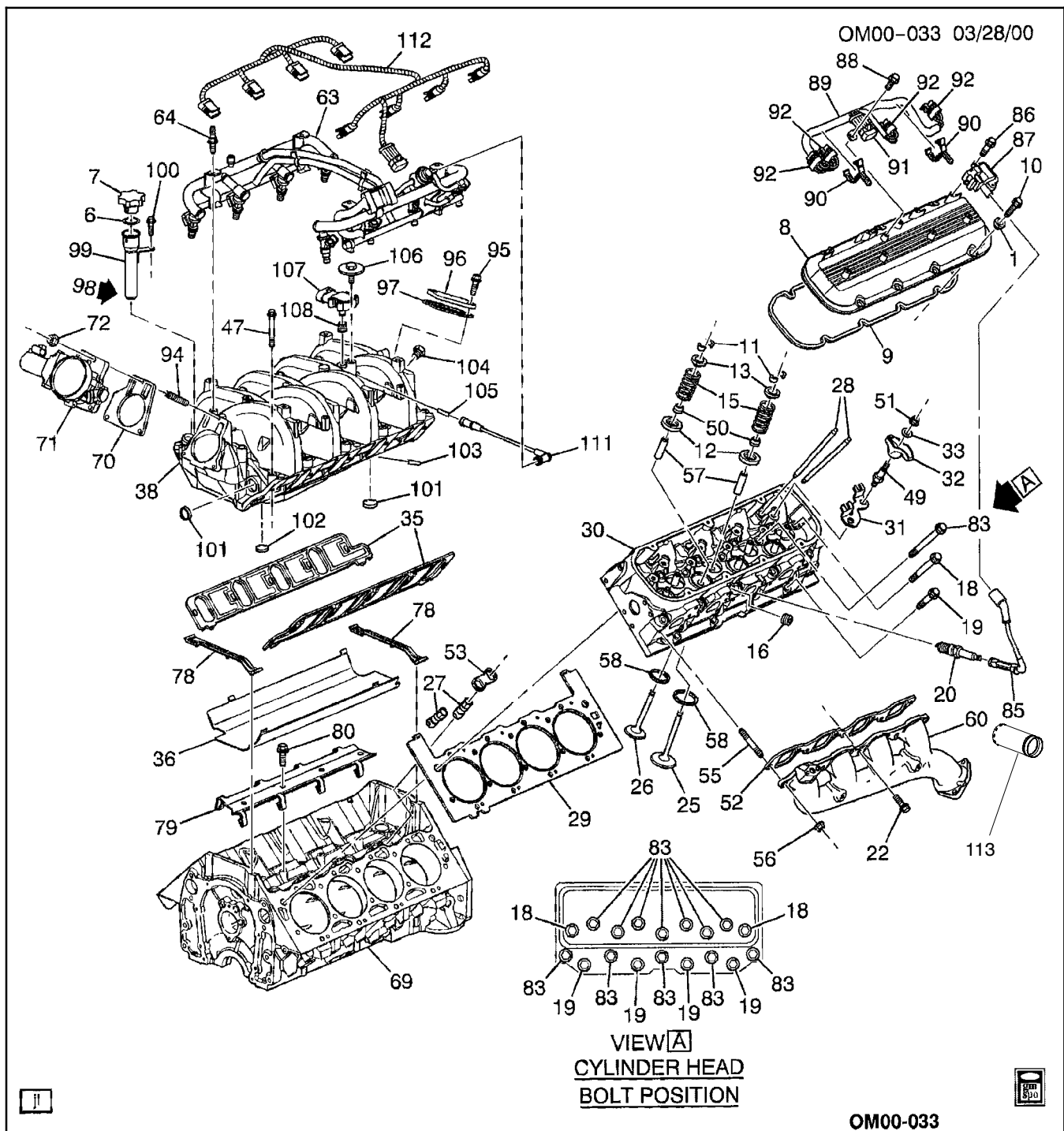
2-1: Engine Block/Lower End



2-1: Engine Block/Lower End

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM19028	Ring kit, piston (standard)	8	68	GM75048	Sealer, oil pan (3 oz tube)	AR
1	GM19029	Ring kit, piston (.030 OS)	8	68	GM75223	Sealer, oil pan (75 gram tube)	AR
2	GM47375	Piston (w/conn rod) (incls rod, piston, pin, rings, retainer, lubricant, nut, spacer)	LH	69	GM75223	Sealer, oil pan drn rstr (3 oz tube)	AR
				70	-	Not applicable	-
2	GM75232	Piston (std)	RH	71	GM75027	Bolt, oil pan (to block short)	13
3	GM47376	Bolt, connecting	16	72	-	Cap, cr/shf brg (pos#1, 2, 3, 4) not serviced	4
4	-	Rod, conn (order item 2)	8				
5	GM19026	Bearing kit, conn rod (std)	8	73	GM66251	Crankshaft	1
6	-	Pin, pstn (order item 2)	8	74	GM18982	Sprocket, crankshaft	1
7	GM47377	Nut, connecting rod	16	75	GM18972	Seal, cr/shf frt oil	1
8		Engine, 8.1L (496 cid)	1	76	GM75076	Cover, eng frt (incls 37, 75)	1
9	GM18887	Plug, engine block oil galley (auto drain hex hd)	2	77	GM18943	Balancer, crankshaft	1
10	GM18897	Plug, camshaft bearing hole	1	78	GM19021	Washer, crankshaft balancer	1
14	GM75072	Retainer, pstn pin	8	79	GM19015	Bolt, crkshft balcr (M16 x 1.5)	1
15	GM18887	Plug, engine block oil galley (auto drain hex hd)	3	82	-	Hub, fan w/pmp pul (part of 32)	1
				83	-	Gasket, w/pmp cvr (part of 32)	1
18	GM75045	Plug, eng blk oil gal	2	85	-	Bolt, w/pmp cvr (part of 32)	6
19	GM18988	Plug, eng block cool drain hole	LH	87	GM18976	Stud, crankshaft bearing cap	10
23	GM75039	Bolt, cm/shf spkt	4	90	GM16372	Retainer, camshaft	1
24	GM75075	Sprocket, cm/shf	1	91	GM18912	Bolt, camshaft retainer	2
25	GM19012	Chain, cm/shf tmg	1	92	GM75050	Bearing, cm/shf (posn#1)	1
26	GM16476	Pin, locator 1/4 x 5/8	1	93	GM19014	Bearing, cm/shf (posn#2, 5 (rr))	2
27	GM18917	Bolt, w/pump (M10 x 1.5x 65)	3	94	GM18935	Bearing, camshaft	2
27	GM75029	Bolt, w/pmp (hfh M10x1.5x95)	1	95	GM18888	Sealer, crishf rr main brg cap	AR
28	GM75069	Camshaft, eng (incls camshaft, pin) (incl 22, 26, 36, 57)	1	96	GM16430	Sealant, pipe Loctite	AR
				97	GM18934	Grease, hvy duty multi-purpose	AR
29	GM18933	Sealer	AR	98	GM18907	Pin, dowel flywhl loc (M6 x 20)	2
30	GM74997	Plug, eng blk oil gal (1/8-27x3/8 nptf)	3	99	GM18958	Pin, cy hd locator (1/2 x 5/8 OD)	4
				100	GM16422	Bolt, oil pump cover	5
31	GM18963	Gasket, water pump	1	101	-	Gear, o/pmp drv (part of 59)	-
32	GM75234	Pump kit, wat (incls 31, 82, 83, 85, 105)	1	102	-	Gear, o/pmp drvn (part of 59)	-
				103	GM18913	Bolt, M8 x 1.25 x 20	4
35	GM75041	Bolt, eng frt cvr (M6x1.0x30)	8	104	GM16127	Pulley, fan and water pump	1
36	GM16476	Pin, locator 1/4 x 5/8	1	105	-	Cover, w/pmp (part of 32)	-
37	GM18951	Gasket, engine front cover	1	106	GM18967	Hose, thermostat bypass	1
38	GM18986	Pin, crankshaft balancer locator	1	107	GM18919	Clamp, thermostat bypass hose	RH
39	GM19024	Bearing kit, cr/shf (std), (pos #1, 2, 3, 4)	4	108	GM18918	Clamp, thermostat bypass hose	LH
				109	-	Seal (see group 1-9)	-
40	GM19025	Bearing kit, cr/shf thr (pos#5)	1	110	-	Thermostat (see group 1-9)	-
41	GM18971	Seal, cr/shf rr oil	1	111	GM19008	Pipe, eng cool c/ovrat (incls #109, 110, 112, 113, 114, 115, 116)	1
42	GM18997	Bolt, flywheel (M11 x 1.5 x 29)	6				
43	GM75071	Flywheel, eng	1	112	GM18979	Outlet, water	1
44	GM18977	Deflector, cr/shf oil	1	113	GM75039	Bolt, wat otlt (part of 111)	4
45	GM18907	Pin, dowel flywhl loc (M6 x 20)	2	114	-	Pipe, therm bypass (part of 111)	-
48	-	Cap, cr/shf #5 brg not serviced	1	115	-	Fitting, htr hose (part of 111)	1
49	GM75031	Nut, cr/shf oil dfl (M10x1 .5, 11.2 thk)	9	116	GM18964	Gasket, eng cool c/ovr pipe (part of 111)	2
				117	GM18920	Bolt, engine coolant crossover	4
51	GM18892	Fitting, oil filter	1	118	GM75033	Bolt, cm/shf posn sen	1
52	GM75109	Valve, oil fltr bypass	2	119	GM75077	Sensor, cm/shf posn (incl #120)	1
53	GM16703	Filter, oil	1	120	-	Seal, cm/shf posn sen hole plug (o ring) (part of 119)	-
54	GM18953	Bolt, crankshaft bearing cap (M12 x 1.75 x 89)	10				
56	GM18896	Shaft, oil pump drive	1	121	GM18952	Sensor, crishf posn (incl 123)	1
57	GM16476	Pin, locator 1/4 x 5/8	1	122	GM18996	Bolt, crankshaft position sensor	1
58	GM16583	Retainer, oil pump drive shaft	1	123	-	Seal, cr/shf posn sen (o ring) (part of 121)	-
59	GM18990	Pump, oil (w/screen)	1				
60	GM18956	Bolt, oil pump (M10 x 1.5 x 60)	1	125	GM18906	Sensor, knock	1
61	-	Screen, o/pmp (see item 59)	1	126	GM18913	Bolt, M8 x 1.25 x 20	4
62	GM18893	Valve, oil pressure relief	1	127	GM19011	Drive, oil pump	1
63	GM18894	Spring, oil pressure relief valve	1	128	GM74997	Plug, eng blk oil gal (countersnk)	3
64	GM16549	Pin, oil press rlf vlv spr st	1	130	-	Ring, crishf posn sen reluctor (part of 73)	-
65	GM18904	Cover, oil pump	1				
66	GM74999	Gasket, o/pmp cvr (part of 65)	1	131	GM75104	Conn, eng oil clr hose (part of 5)	2
67	GM19009	Gasket, oil pan	1	132	GM16576	Seal, oil pan drain plug (o-ring)	1
68	GM18989	Pan, oil (incls 67, 68, 70, 132, 133, 134)	1	133	-	Baffle, oil pan (part of 68)	-
				134	GM75033	Bolt, oil pan bfl (also part of 68)	1

2-2: Engine Head/Upper End



2-2: Engine Head/Upper End

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	GM18957	Gasket, vlv rocker arm cvr bolt	14	53	GM18940	Guide, valve lifter (restrictor valve rotator)	8
6	-	Seal, oil fil tub (o ring) (part of 7)	-				
7	GM75067	Cap, oil fil (incl #6)	1	55	GM75043	Stud, exh manif	14
8	GM47654	Rocker cover w/gasket	2	56	GM75044	Nut, exh man (m8x1 .25, 8.9thk)	7
9	GM18974	Gasket, valve rocker arm cover	2	57	-	Guide, vlv (part of 30)	16
10	GM18975	Bolt, valve rocker arm cover (M6 x 1.0 x 26)	14	58	-	Seat, cyl head vlv- (part of 30)	16
				60	-	Manifold, exh (see group 1-7)	1
11	GM18895	Key, valve stem	32	63	-	Not applicable	-
12	GM18903	Rotator, valve	16	65	GM75032	Stud, f/injn fuel rl	2
13	GM18902	Cap, valve spring	16	69		Engine, 8.1 l (496 cid)	1
15	GM75061	Spring, vlv	16	70	-	Not applicable	-
16	GM16533	Plug, water outlet	2	71	-	Not applicable	-
18	GM18922	Bolt, cylinder head	4	72	-	Not applicable	-
19	GM18923	Bolt, cylinder head	8	78	-	Not applicable	-
20	GM22171	Spark plug	8	79	GM18941	Retainer, valve lifter guide (restrictor)	1
22	-	Bolt, exh manif (see group 1-7)	2				
23	GM18958	Pin, cy hd locator (1/2 x 5/8 OD)	4	80	GM75039	Bolt, vlv liftr gde ret	4
25	GM18950	Valve, intake (standard)	8	83	GM18921	Bolt, cylinder head	24
25	GM18992	Valve, intake (0.003" OS)	8	85	GM75228	Wire kit (contains 8 sprk plg wires)	1
25	GM18993	Valve, intake (0.015" OS)	8				
25	GM18994	Valve, intake (0.030" OS)	8	85	GM75229	Wire, splg (12"long-style 12hhh, 7mm dia lead-w/heat-shield)	8
26	GM18962	Valve, exhaust (standard)	8				
26	GM18968	Valve, exhaust (0.003" OS)	8	85	GM18928	Retainer, spark plug wire	1
26	GM18969	Valve, exhaust (0.015" OS)	8	87	GM38393	Coil, ignition	8
26	GM18970	Valve, exhaust (0.030" OS)	8	88	GM75030	Bolt, wrg harn brkt	4
27	GM19020	Lifter, valve	16	89	GM75086	Harness, ign coil wrg	2
28	GM18946	Rod, valve push (intake)	8	94	GM75233	Stud, throt body	3
28	GM18947	Rod, valve push (exhaust)	8	95	GM75034	Stud, egr vlv adap	RH
29	GM18959	Gasket, cylinder head	LH	96	GM18981	Cover, EGR valve opening	1
29	GM24403	Gasket, cylinder head	RH	97	GM75068	Gasket, egr vlv pipe	1
30	GM75073	Head, cyl	RH	99	GM19007	Tube, oil fil	1
30	GM75074	Head, cyl	LH	100	GM18996	Bolt, crankshaft position sensor	1
31	GM18995	Guide, valve lifter push rod	8	101	GM75036	Plug, int manif core hole	2
32	GM18948	Arm, valve rocker	16	102	GM75240	Plug, int manif core hole	1
33	GM18949	Ball, valve rocker arm	16	103	-	Tube, pcv (part of #38) (not serviced)	1
35	GM75230	Gasket, int manif (80/100 kw)	1				
35	GM47739	Gskt, int man (w/flare arrestor)	2	104	GM18901	Plug, intake manifold	1
36	GM18980	Shield, intake manifold oil splash	1	105	-	Not serviced	-
38	GM75070	Manifold, int (80/100 kw)	1	106	GM18899	Bolt, map sensor	3
38	GM66245	Manifold, intake (125/150 kw)	1	107	-	Sensor, map (see group 1-11, 1-21, or 1-22)	-
47	GM75042	Bolt, int manif	10				
49	GM19010	Stud, vlv rkr arm piv	16	108	-	Seal, map sen (part of 106)	-
50	GM18945	Sea[, valve stem oil	16	111	-	Not applicable	-
51	GM16521	Nut, valve rocker arm	12	112	-	Not applicable	-
52	-	Gskt, exh manif (see Group 1-7)	-	113	GM48779	Boot, Metal, Spark Plug Wire	8

Notes

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