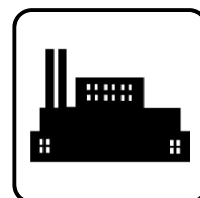


Service Parts

Engine



Engine Models:

**John Deere
6068HFG08**

Generator Models:

125/150REOZJ4

145/175REOZT4

KOHLER®
Power Systems _____

9001
KOHLER
POWER SYSTEMS
NATIONALLY REGISTERED

TP-6962 3/15

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Introduction

This manual lists service replacement parts for John Deere engine models 6068HFG08.

At the time of print this manual applied to the engine models listed in the Model Index. On occasion this manual may apply to engines not listed in the Model Index.

Information in this publication represents data available at the time of print. The generator set manufacturer reserves the right to change this publication and the products represented without notice and without any obligation or liability whatsoever.

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.

Index. Lists the engine models and groups.

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

Numbering System Significance

This manual uses the following numbering systems:

Engine Model. The product identification number located on the engine nameplate. Engines break down into groups.

Group Number. A unique number representing a parts group needed to assemble an engine function. For example, Group 1 is the Air Intake group.

Variation Number. A group might have several variations. Each variation performs the same function with different parts lists. For example, a 12-volt alternator and 24-volt alternator both perform the same function, but, with different parts. Each difference requires a group variation or module number.

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 use illustrations for assembly or disassembly.

How to Find Part Numbers

Use the following steps to locate a service replacement part.

1. Locate the engine nameplate to **identify the engine model number**.
2. **Turn to the Model Index.** The first column lists the engine model numbers. The headings identify the groups of parts that make up the engine.
3. **Identify the group** most likely to include the service part number.
4. **Find the group variation number** at the intersection of the model row and the group column. Note the variation number.
5. **Page forward to locate the group** identified in step 3 or find the appropriate page in the Table of Contents.
6. **Find the part on the illustration** and note the item number of the part or **find the part description in the parts list**.
7. Select **the part number that corresponds to your group variation**. The first column lists the illustration item number. Find the variation identified in the Model Index in the appropriate column on the right side of the parts list table. Find the quantity used at the intersection of the item number row and the variation column. A blank space at the intersection means the variation/module does not use that part number.

Hardware References

Many common hardware items do not appear in parts manuals or will appear as common hardware entries. A common hardware entry lists the size of the hardware. For example, an item that appears as "Hardware, 3/8-16" in the text means that the piece is 3/8-16 size. Obtain common hardware locally.

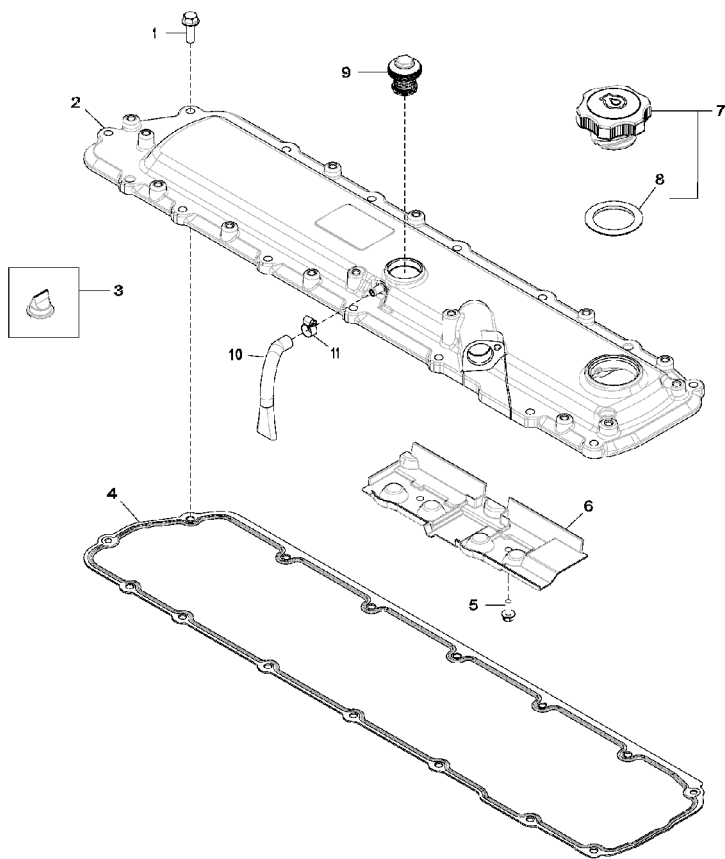
Some hardware items require a specific size or some other characteristic. In that case, use the part number listed in the text.

When replacing hardware, do not substitute inferior grade hardware. Replacement hardware grade should be equal to or better than the grade of the manufacturer's original hardware.

Engine Model Index

	Variation					
	Engine Part Number/Model					
	GM88374-1					
	6068HFG08					
Group Description	60 Hz, 24 V					
Group 11: Rocker Arm Cover	1175					
Group 13: Crankshaft Pulley	1320					
Group 14: Flywheel Housing	1405					
Group 15: Flywheel	1503					
Group 16: Fuel Injection System	16FM					
Group 17: Air Inlet	17EE					
Group 19: Oil Pan	19BU					
Group 20: Coolant Pump and Pulley	2069					
Group 21: Thermostat Cover	2187					
Group 22: Thermostat	2221					
Group 23: Fan Drive	2357					
Group 24: Fan Belt	24JV					
Group 28: Exhaust Manifold	28DB					
Group 29: Ventilating System	2975					
Group 30: Starter	3090					
Group 31: Alternator	31AC					
Group 33: DEF Line	3310					
Group 34: DEF Tank Header	3406					
Group 35: Fuel Filter	35D5					
Group 36: Front Plate	3639					
Group 39: Thermostat Housing	3949					
Group 40: Dipstick	4074					
Group 42: DEF Line	4208					
Group 43: Starting Aid	4349					
Group 44: Timing Gear Cover	44AC					
Group 46: Cylinder Block	4681					
Group 47: Crankshaft	4732					
Group 48: Piston, Cylinder Liner	4865					
Group 49: Valve Train Actuation	4909					
Group 50: Oil Pump	5034					
Group 51: Cylinder Head	5148					
Group 54: Air Intake Hose	5413					
Group 57: Water Pump Inlet	5734					
Group 59: Oil Cooler and Filter	5970					
Group 61: Exhaust Filter	6157					
Group 62: Alternator Mounting	6297					
Group 65: Turbocharger	65N4					
Group 67: Engine Sensors	6757					
Group 70: Exhaust Pipe	7009					
Group 71: SCR Catalyst	7102					
Group 84: Wiring Harness	84DV					
Group 86: Fan Pulley	8668					
Group 87: Belt Tensioner	8735					
Group 89: Exhaust Gas Recirculation	8932					
Group 91: Extension Harness	91AK					
Group 98: Engine Lift Strap	9842					

Group 11: Rocker Arm Cover

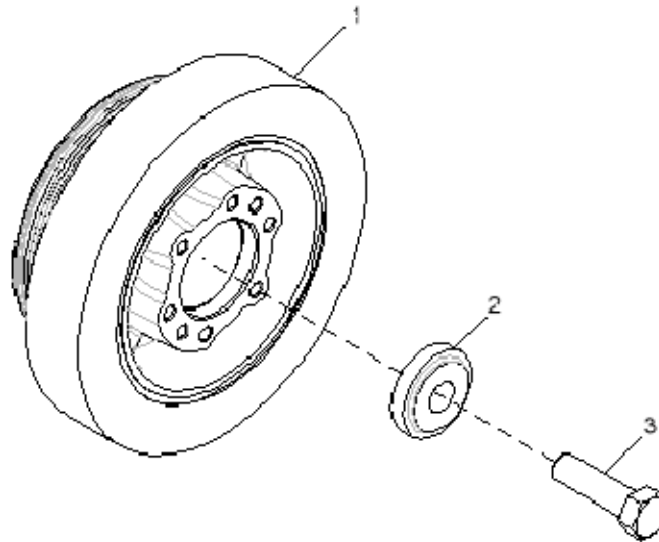


1175_RE539966_PCD

Item	Part Number	Description	Qty.
			Variation 1175
1	#	Screw, M8 X 25	15
2	GM96201	Valve Cover	1
4	GM95987	Gasket	1
5	GM95664	Screw, M6 X 16	2
6	GM96033	DEFlector	1
7	360018	Filler Cap	1
8	GM17493	Packing	1
9	GM96133	Cap	1
10	GM96052	Hose	1
11	GM63929	Clamp	1

Common hardware; procure locally.

Group 13: Crankshaft Pulley

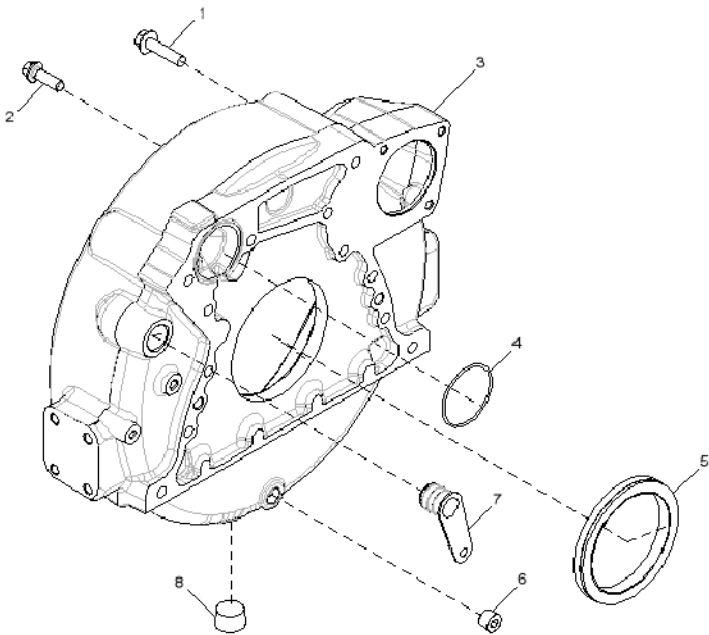


1320_RE508845_PCD

Item	Part Number	Description	Qty.
			Variation 1320
1	GM32939	Pulley	1
2	GM47474	Bushing	1
3	GM47472	Screw, Cap	1

Common hardware; procure locally.

Group 14: Flywheel Housing

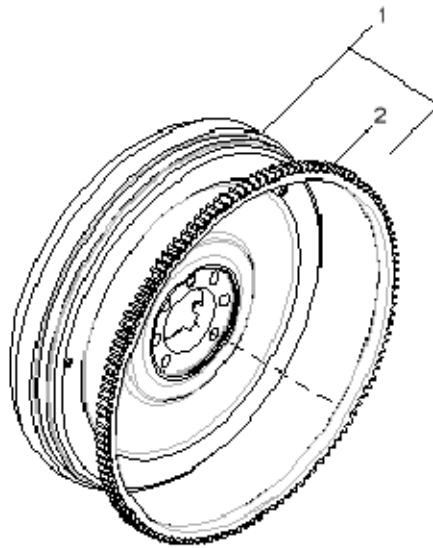


1405_R65000_PCD

Item	Part Number	Description	Qty.
			Variation 1405
1	#	Screw, M12 X 50	4
2	360581	Bolt	8
3	GM95958	Housing	1
4	GM24540	O-Ring	1
5	223583	Seal	1
6	#	Pipe Plug, 1/2"	1
7	GM17453	Plug	1
8	#	Pipe Plug, 1"	1

Common hardware; procure locally.

Group 15: Flywheel

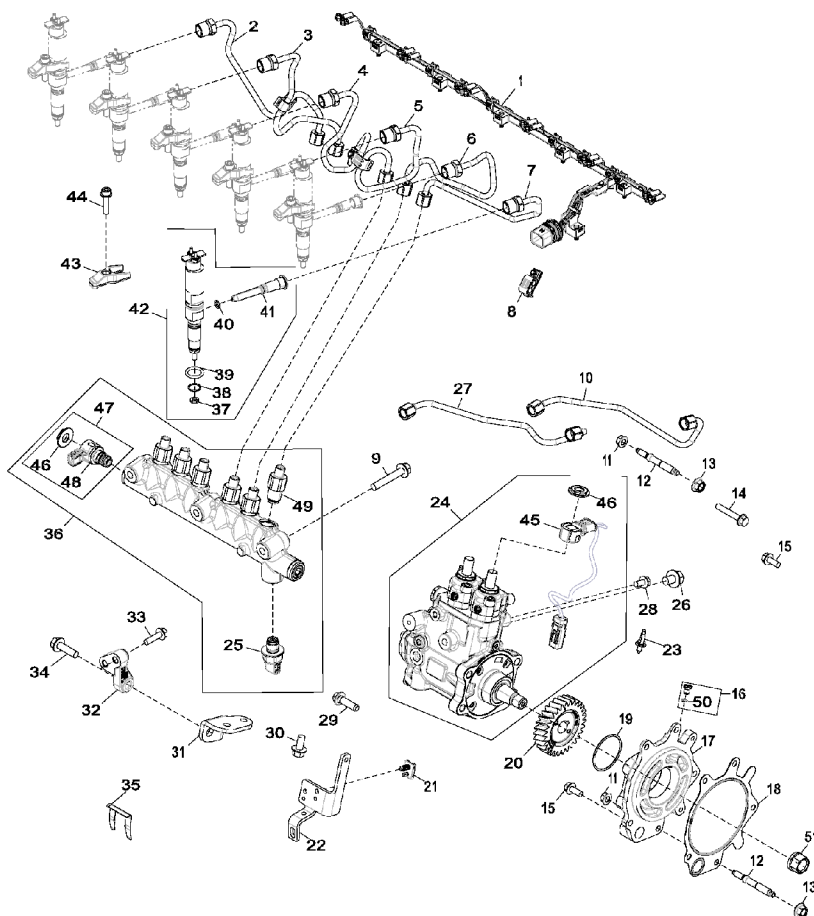


1503_RE59281_PCD

Item	Part Number	Description	Qty.
			Variation 1503
1	GM17501	Flywheel (includes item 2)	1
2	223750	Gear	1

Common hardware; procure locally.

Group 16: Fuel Injection System



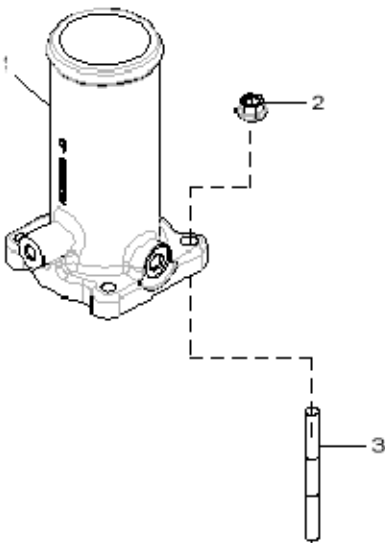
16FM_RES49695_PCD

Item	Part Number	Description	Qty.
			Variation 16FM
1	GM96213	Wiring Harness	1
2	GM96164	Fuel Line	1
3	GM96162	Fuel Line	1
4	GM96161	Fuel Line	1
5	GM96160	Fuel Line	1
6	GM96159	Fuel Line	1
7	GM96158	Fuel Line	1
8	GM96190	Clamp	1
9	#	Screw, M10 X 60	3
10	GM96165	Fuel Line	1
11	#	Flange Nut, M8	3
12	GM52531	Stud, 84mm	3
13	GM30375	Flange Nut, M10	3
14	#	Screw, M8 X 50	2
15	#	Screw, M8 X 20	2
16	GM95937	Drain Plug	1
17	GM96057	Adapter	1
18	GM96034	Gasket	1
19	GM46643	O-Ring	1
20	GM96073	Gear	1
21	GM95935	Elec. Connector Accessory	2
22	GM96076	Bracket	1
23	GM96080	Tie Band	2
24	GM96228	Fuel Pump	1
25	GM96171	Pressure Sensor	1
26	#	Screw, M12 X 16	1
27	GM96166	Fuel Line	1

Item	Part Number	Description	Qty.
			Variation 16FM
28	#	Screw, M8 X 16	2
29	GM46586	Screw	4
30	GM32765	Screw	2
31	GM96187	Bracket	1
32	GM96035	Bracket	1
33	#	Screw, M8 X 30	2
34	M933-1003	SCREW, HEX CAP M10 X 35mm	1
35	GM95984	Clip	1
36	GM96163	Fuel Rail	1
37	GM50119	Washer	6
38	223511	O-Ring	6
39	GM46635	O-Ring	6
40	360165	O-Ring	6
41	GM96169	Tube	6
42	GM96210	Nozzle Kit	6
43	GM79808	Clamp	6
44	GM50059	Screw With Washer	6
45	GM96242	Elec. Connector Terminal	2
46	GM96051	Nut	3
47	GM96154	Pressure Relief Fitting	1
48	GM96189	Elec. Connector Terminal	1
49	GM96200	Flow Control Hyd. Valve	6
50	GM95889	O-Ring	1
51	#	Flange Nut, M18	1

Common hardware; procure locally.

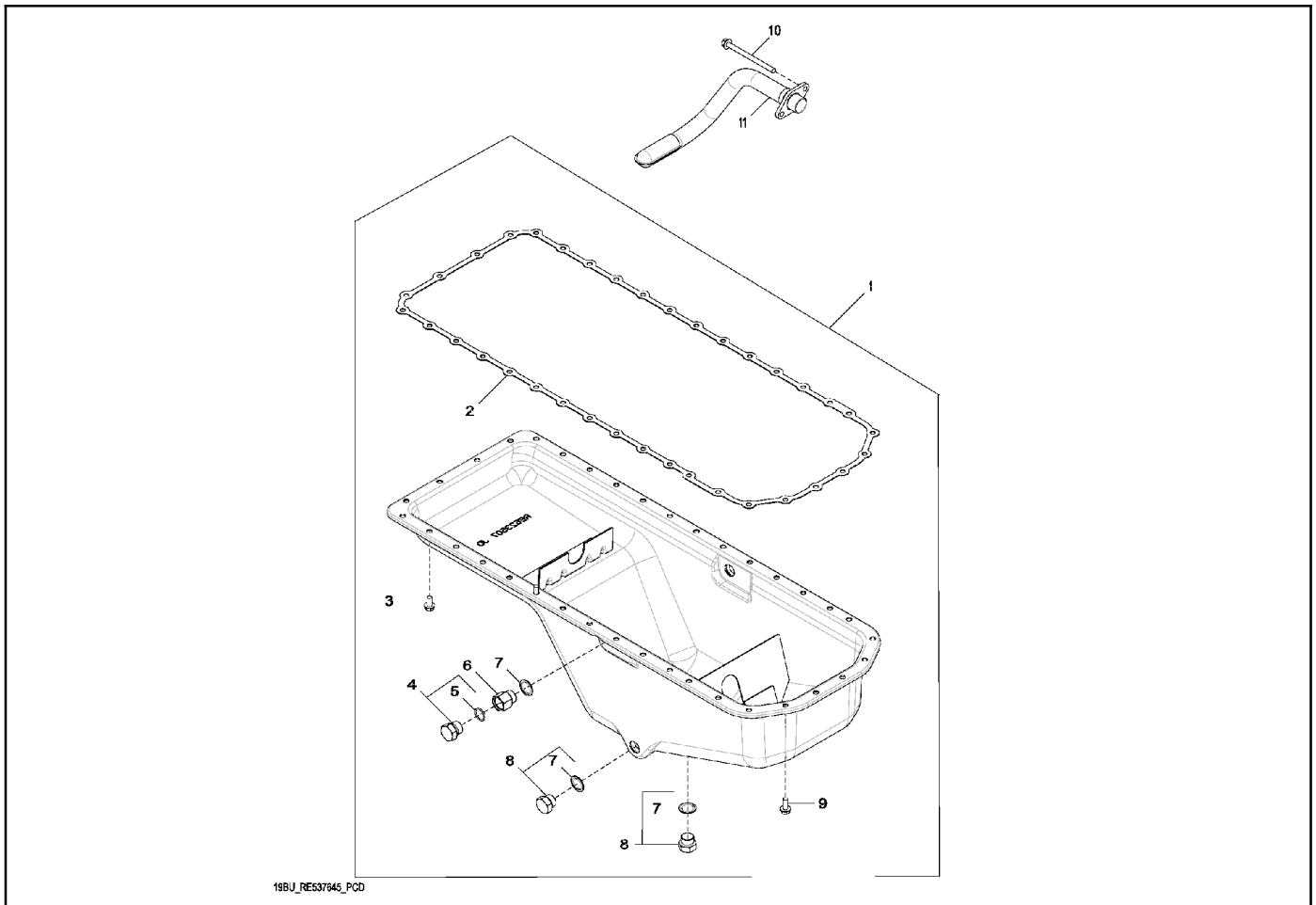
Group 17: Air Inlet



Item	Part Number	Description	Qty.
			Variation 17EE
1	GM96029	Air Intake	1
2	#	Flange Nut, M8	4
3	GM95887	Stud	4

Common hardware; procure locally.

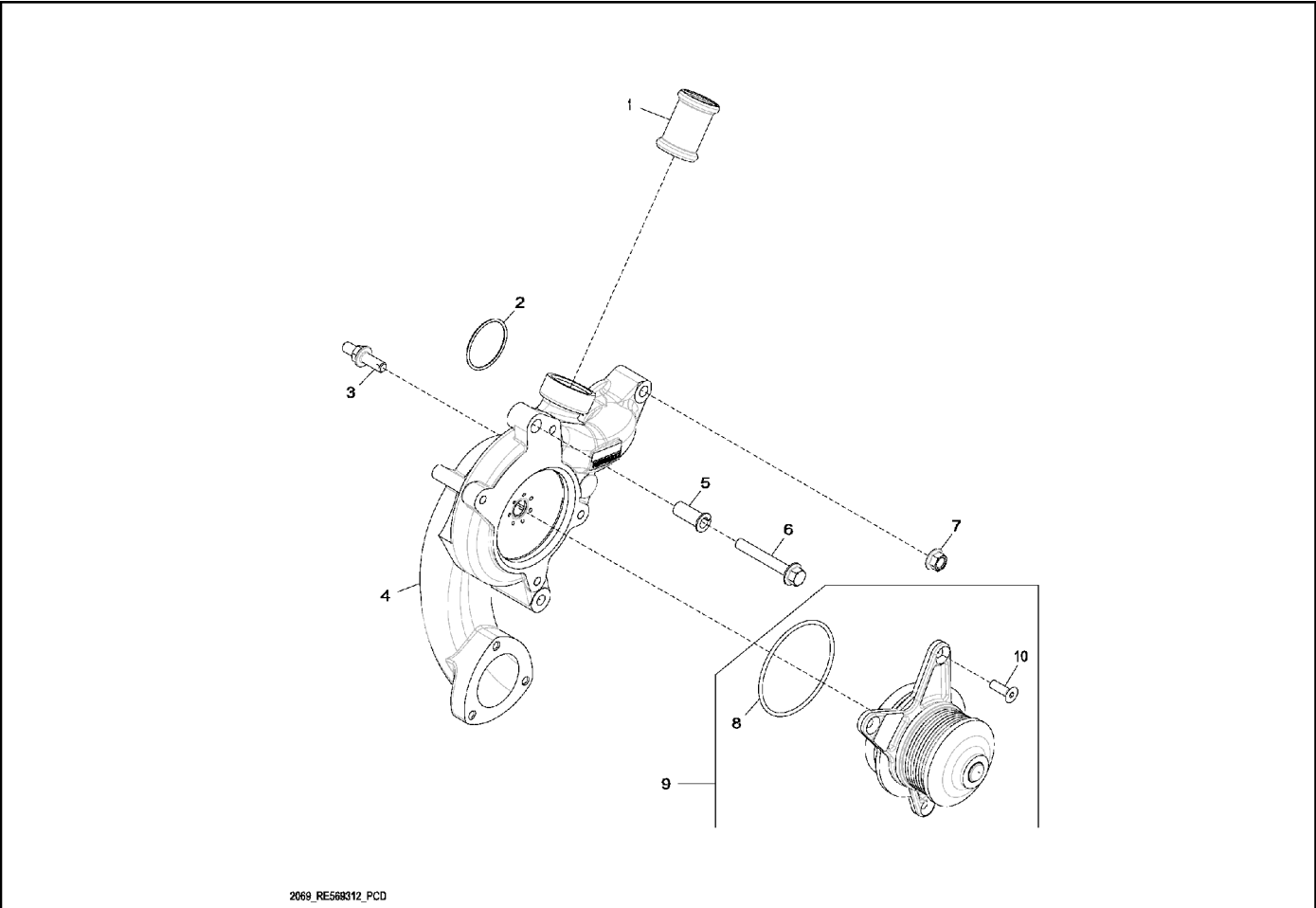
Group 19: Oil Pan



Item	Part Number	Description	Qty.
			Variation 19BU
1	GM69789	Oil Pan Kit	1
2	GM49903	Gasket	1
3	#	Bolt, M8 X 16	30
4	GM17498	Fitting	2
5	GM17437	O-Ring	1
6	GM50013	Seal	2
7	GM49876	Seal	3
8	GM50012	Plug And Seal Kit	2
9	#	Screw, M8 X 20	6
10	#	Screw, M8 X 110	2
11	GM96120	Oil Pump Intake	1

Common hardware; procure locally.

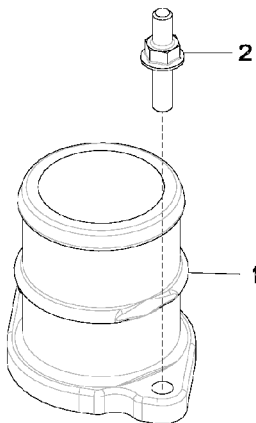
Group 20: Coolant Pump and Pulley



Item	Part Number	Description	Qty.
			Variation 2069
1	GM95975	Tube	1
2	GM96004	O-Ring	1
3	GM95945	Stud	1
4	GM96240	Water Pump	1
5	GM95967	Bushing	1
6	#	Screw, M10 X 70	2
7	GM30375	Flange Nut, M10	1
8	GM96066	O-Ring	1
9	GM96212	Pump	1
10	#	Screw, M8 X 25	4

Common hardware; procure locally.

Group 21: Thermostat Cover

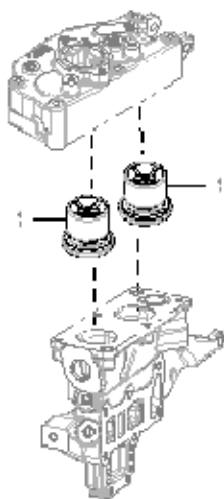


2187_RE552011_PCD

Item	Part Number	Description	Qty.
			Variation 2187
1	GM95992	Adapter	1
2	GM95997	Stud	2

Common hardware; procure locally.

Group 22: Thermostat

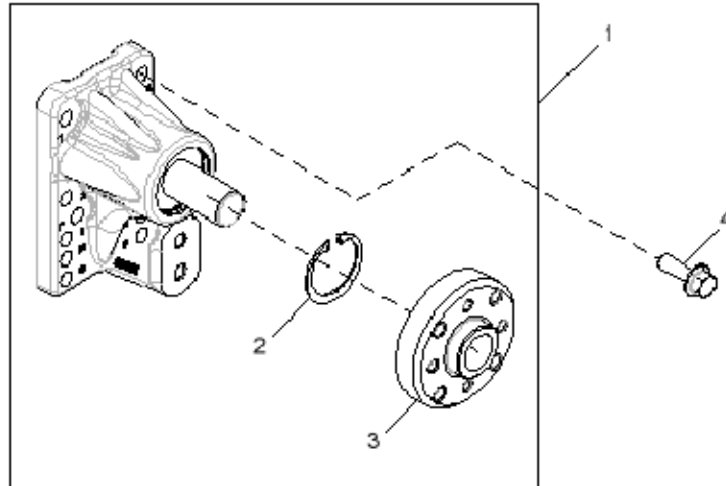


2221_RE540498_PCD

Item	Part Number	Description	Qty.
			Variation 2221
1	GM96194	Thermostat	2

Common hardware; procure locally.

Group 23: Fan Drive

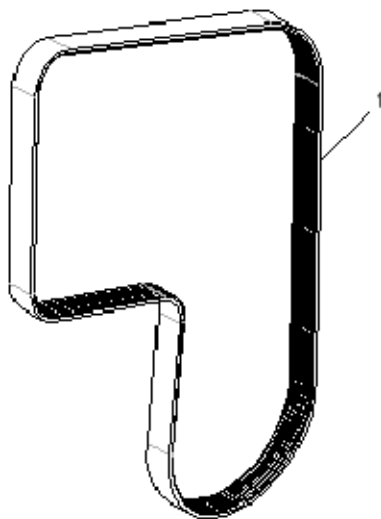


2357_RE543910_PCD

Item	Part Number	Description	Qty.
			Variation 2357
1	GM96114	Fan Drive	1
2	223730	Snap Ring	1
3	-	Hub	1
4	M933-1003 0-82	SCREW, HEX CAP M10 X 30mm	4

Common hardware; procure locally.

Group 24: Fan Belt

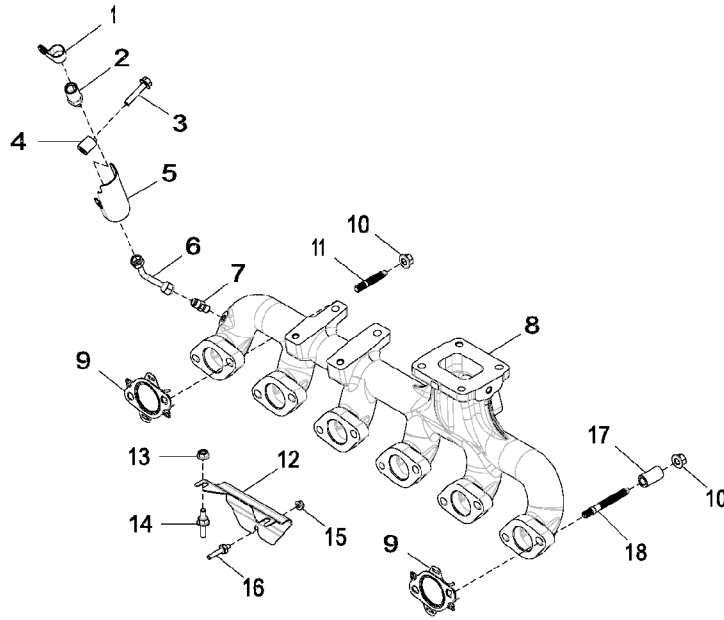


24JV_RE540656_PCD

Item	Part Number	Description	Qty.
			Variation 24JV
1	GM95995	V-Belt	1

Common hardware; procure locally.

Group 28: Exhaust Manifold

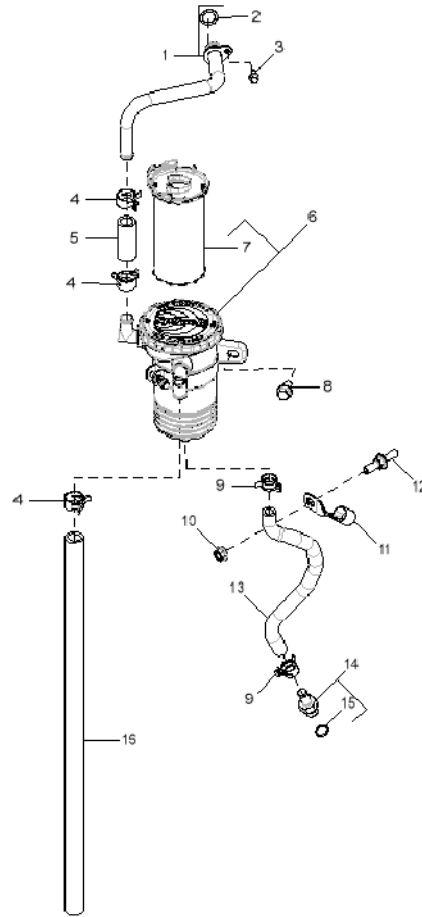


28DB_RE565379_PCD

Item	Part Number	Description	Qty.
			Variation 28DB
1	GM95962	Clamp	1
2	GM96005	Adapter Fitting	1
3	#	Screw, M8 X 40	1
4	GM96028	Spacer	1
5	GM96022	Heat Shield	1
6	GM96146	Line	1
7	223457	Fitting	1
8	GM96042	Exhaust Manifold	1
9	GM96074	Gasket	6
10	GM96061	Flange Nut	12
10	GM96062	Flange Nut	12
11	GM96012	Stud	2
12	GM96065	Heat Shield	1
13	#	Flange Nut, M8	2
14	GM95997	Stud	2
15	#	Flange Nut, M6	1
16	GM96050	Stud	1
17	GM96049	Spacer	10
18	GM96008	Stud	10

Common hardware; procure locally.

Group 29: Ventilating System

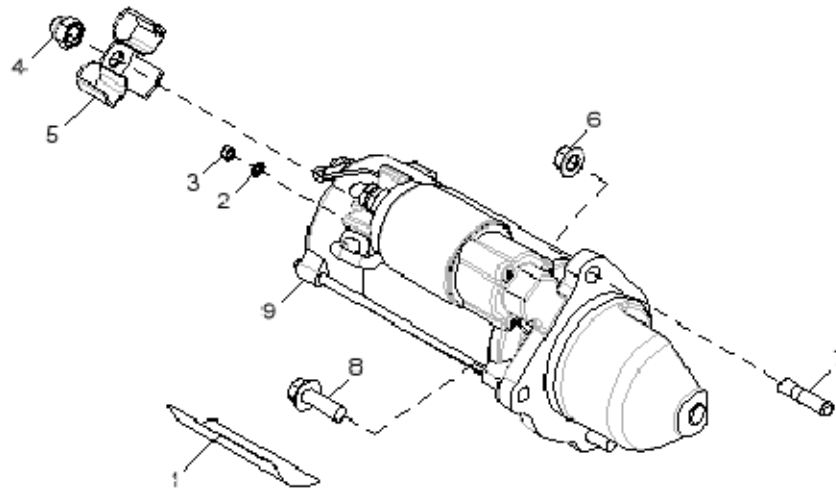


2975 RE541573 PCD

Item	Part Number	Description	Qty.
			Variation 2975
1	GM96113	Tube	1
2	GM95964	O-Ring	1
3	GM95664	Screw, M6 X 16	1
4	GM95947	Hose Clamp	3
5	GM95956	Hose	1
6	GM96108	Filter Head	1
7	GM96121	Filter Element	1
8	GM32765	Screw	2
9	GM95955	Hose Clamp	2
10	GM30375	Flange Nut, M10	1
11	GM96024	Clamp	1
12	GM95970	Stud	1
13	GM96020	Hose	1
14	GM96110	Check Valve	1
15	360176	O-Ring	1
16	GM95961	Hose	1

Common hardware; procure locally.

Group 30: Starter

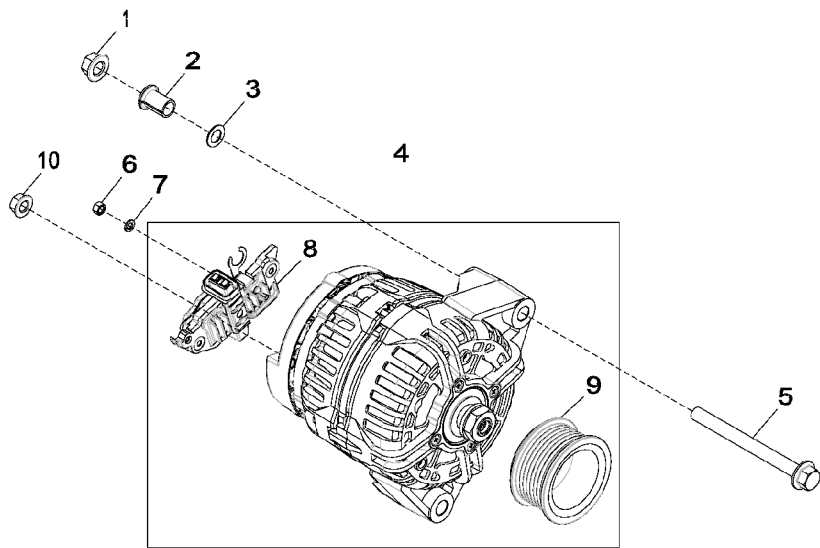


3090_RE522335_PCD

Item	Part Number	Description	Qty.
			Variation 3090
1	GM95953	Label	1
2	#	Lock Washer, 5 Mm	1
3	#	Nut, M5	1
4	GM80280	Nut	1
5	GM50642	Cover	1
6	GM30375	Flange Nut, M10	1
7	GM91983	Stud	1
8	M933-1003 0-82	SCREW, HEX CAP M10 X 30mm	2
9	GM50639	Starter Motor Kit	1

Common hardware; procure locally.

Group 31: Alternator

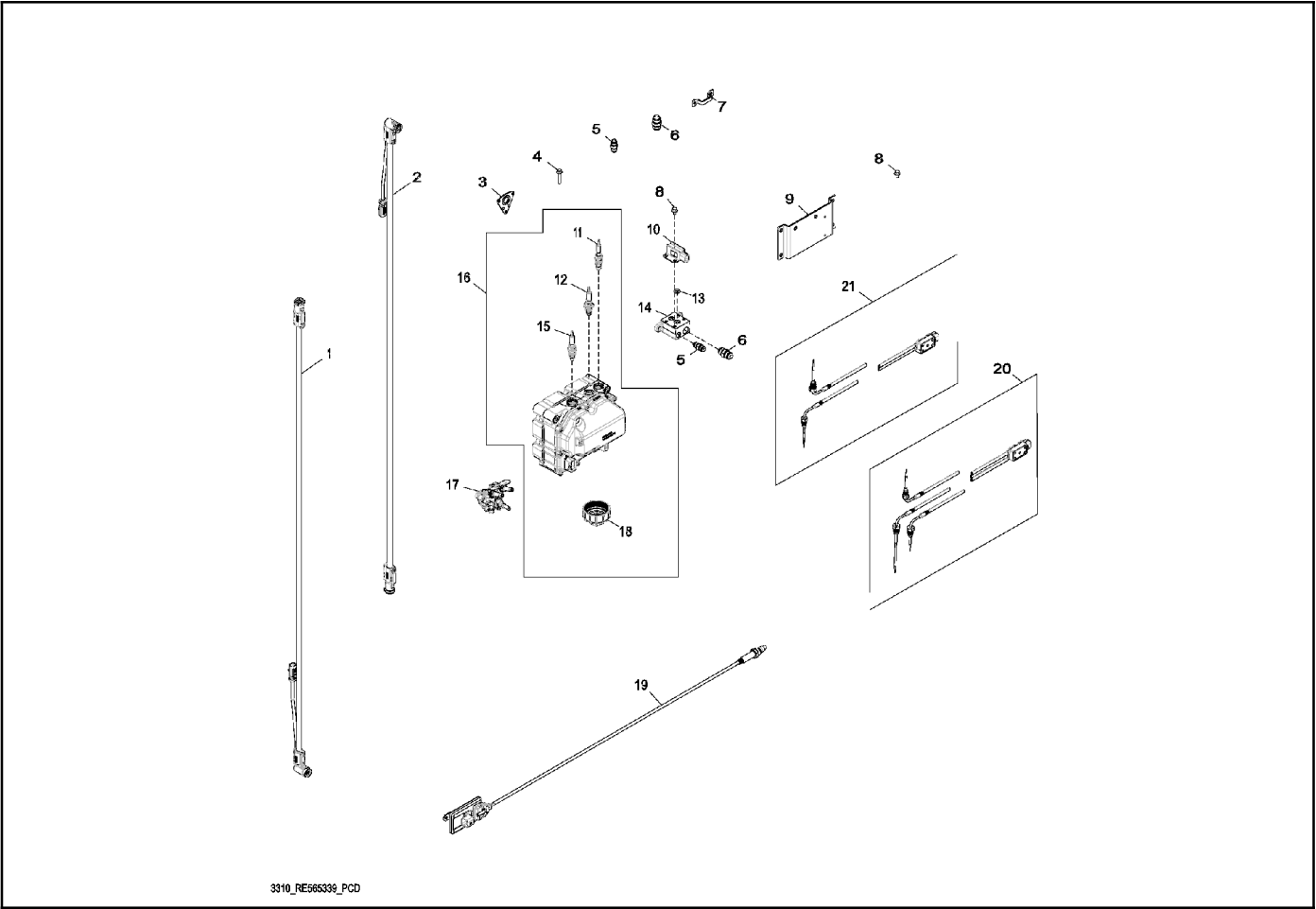


31AC_RE558372_PCD

Item	Part Number	Description	Qty.
			Variation 31AC
1	GM30375	Flange Nut, M10	2
2	360076	Bushing	2
3	360166	Thrust Washer	2
4	GM96214	Alternator	1
5	#	Screw, M10 X 110	2
6	#	Nut, M5	1
7	#	Lock Washer, 5 Mm	1
8	GM96123	Regulator	1
9	GM96006	Pulley	1
10	#	Flange Nut, M8	1

Common hardware; procure locally.

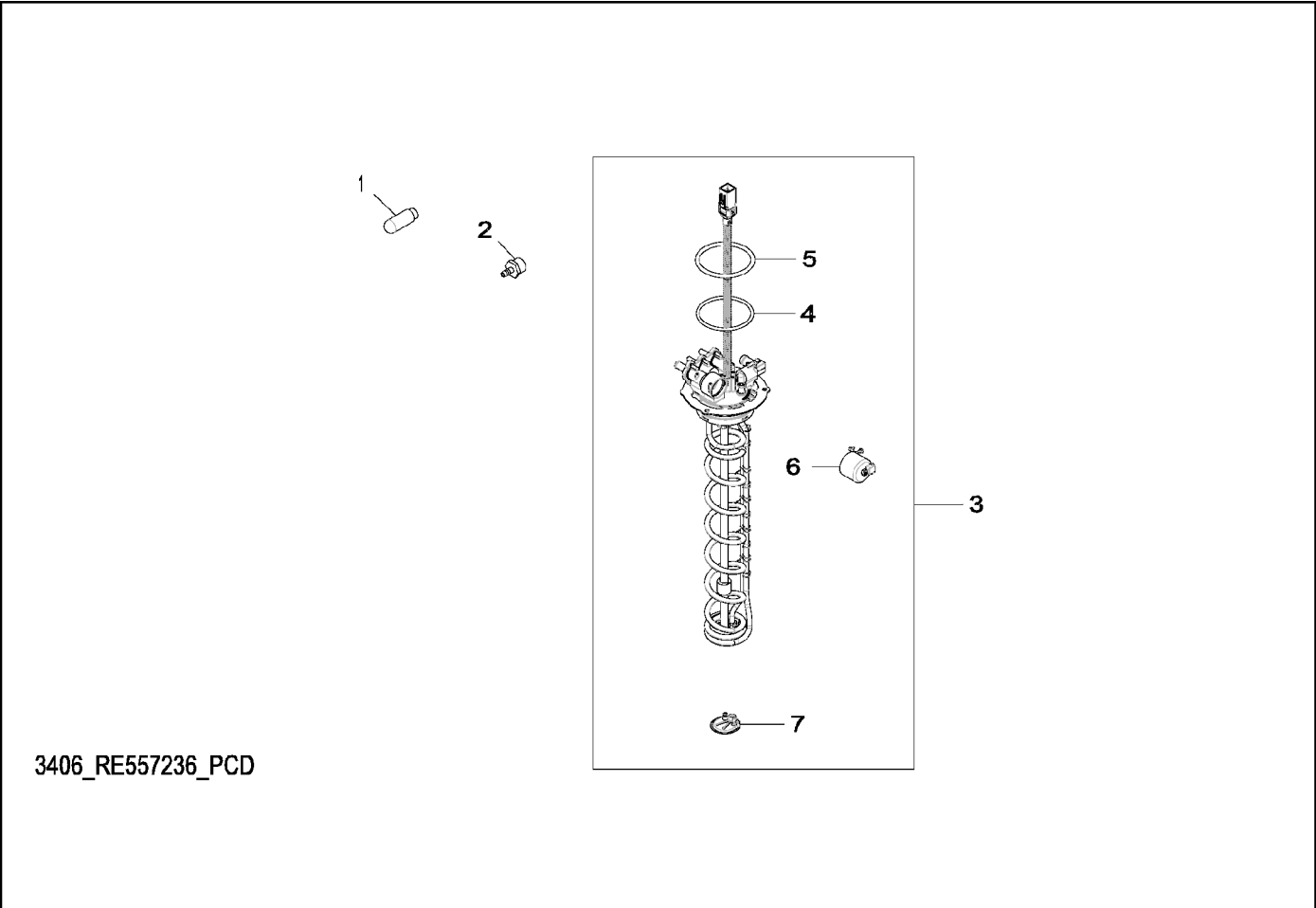
Group 33: DEF Line



Item	Part Number	Description	Qty.
			Variation 3310
1	GM96219	DEF Line	1
2	GM96220	DEF Line	1
3	GM96209	Gasket	1
4	GM96056	Bolt	3
5	GM96129	Fitting	1
6	GM96134	Fitting	1
7	GM96130	Strap	2
8	#	Screw, M6 X 10	4
9	GM95972	Plate	1
10	GM96092	Pressure Sensor	1
11	GM96156	Adapter Fitting	1
12	GM96157	Adapter Fitting	1
13	GM95973	O-Ring	2
14	GM96015	Manifold	1
15	GM96155	Adapter Fitting	1
16	GM96192	DEF Dosing Unit Pump	1
17	GM96217	DEF Dosing Injector	1
18	GM96202	Cap	1
19	GM96181	Chemical Sensor	2
20	GM96182	Temperature Sensor	1
21	GM96183	Temperature Sensor	1

Common hardware; procure locally.

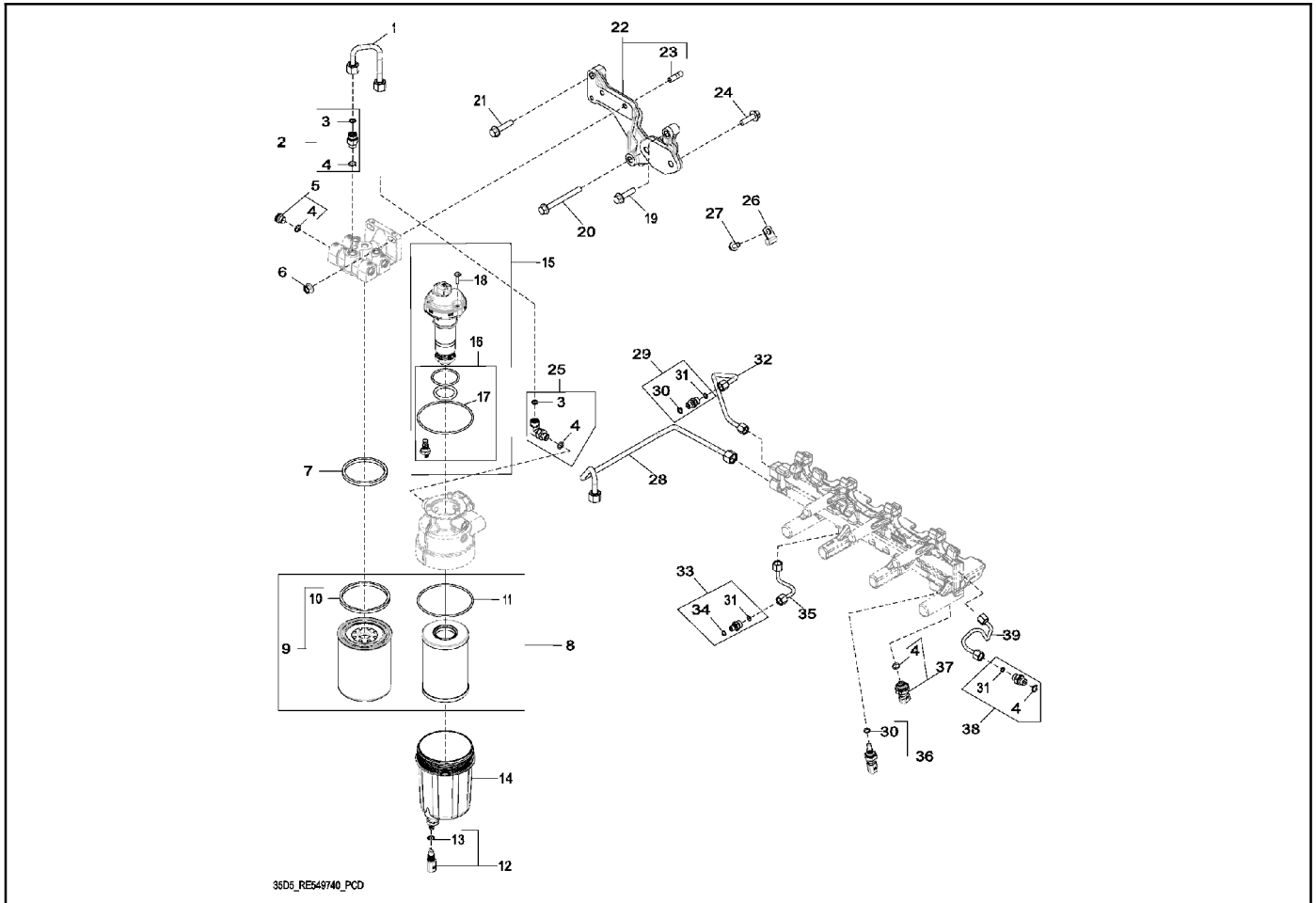
Group 34: DEF Tank Header



Item	Part Number	Description	Qty.
			Variation 3406
1	GM95948	Breather	1
2	GM95949	Fitting	1
3	GM96241	DEF Tank Header Assembly	1
4	GM96058	O-Ring	1
5	GM96059	O-Ring	1
6	GM96197	Solenoid Valve	1
7	GM96221	Filter Kit	1

Common hardware; procure locally.

Group 35: Fuel Filter

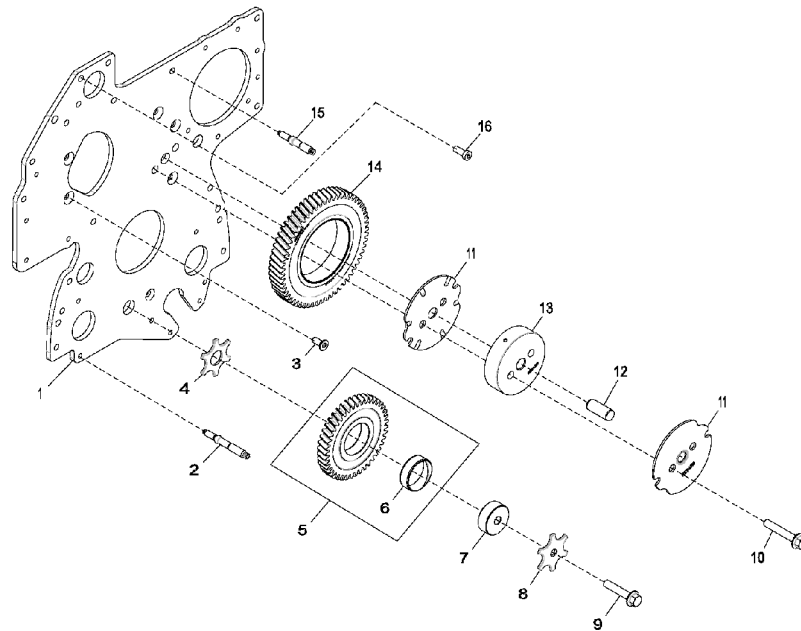


Item	Part Number	Description	Qty.
			Variation 35D5
1	GM96198	Fuel Line	1
2	GM96106	Fitting	2
3	360165	O-Ring	2
4	GM50114	O-Ring	5
5	GM96119	Fitting	4
6	GM30375	Flange Nut, M10	2
7	GM18730	Packing	1
8	GM96207	Filter Kit	1
9	GM80469	Filter Element	1
10	GM80364	Packing	1
11	GM50193	O-Ring	1
12	GM96191	Sensor	1
13	GM18757	O-Ring	1
14	GM96126	Bowl	1
15	GM96186	Fuel Pump	1
16	GM77149	Seal Kit	1
17	GM50193	O-Ring	1
18	GM95994	Screw	3
19	#	Screw, M10 X 40	1
20	GM70547	Screw	1
21	#	Screw, M10 X 45	1

Common hardware; procure locally.

Item	Part Number	Description	Qty.
			Variation 35D5
22	GM96128	Bracket	1
23	GM50113	Stud	2
24	M933-1003	SCREW, HEX CAP M10 X 35mm	2
25	GM96196	Elbow Fitting	1
26	GM95939	Clip	1
27	#	Screw, M8 X 16	1
28	GM96175	Fuel Line	1
29	GM96094	Fitting	1
30	GM95985	O-Ring	2
31	GM95986	O-Ring	3
32	GM96173	Fuel Line	1
33	GM96177	Adapter Fitting	1
34	GM95890	O-Ring	1
35	GM96203	Fuel Line	1
36	GM96090	Fuel Temperature Sensor	1
37	GM96091	Pressure Sensor	1
38	GM96204	Fitting	1
39	GM96232	Fuel Line	1

Group 36: Front Plate

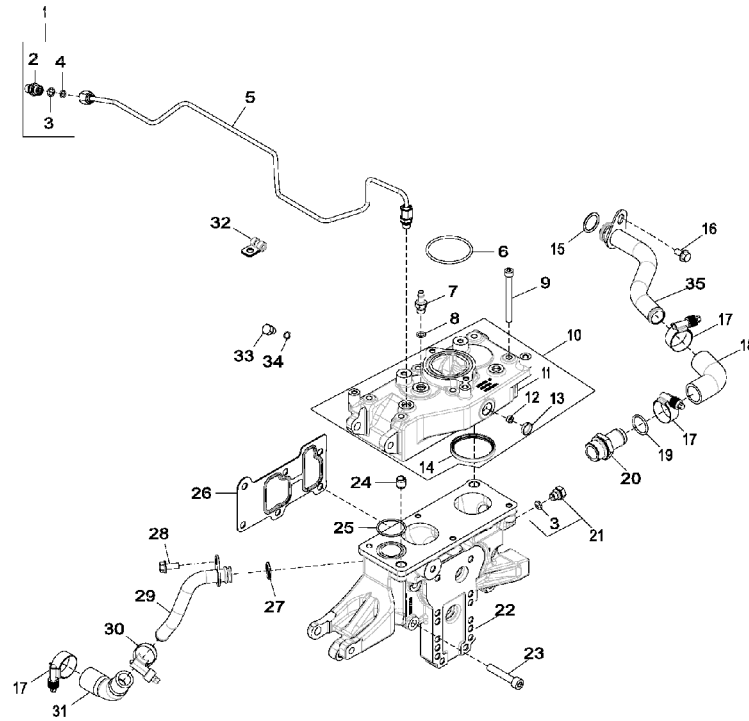


3639_RE551563_PCD

Item	Part Number	Description	Qty.
			Variation 3639
1	GM96048	Plate	1
2	GM52531	Stud, 84mm	5
3	360516	Screw	5
4	336446	Thrust Washer	1
5	360021	Gear	1
6	360082	Bushing	1
7	360083	Shaft	1
8	360148	Thrust Washer	1
9	#	Screw, M10 X 50	1
10	#	Screw, M10 X 60	2
11	GM96037	Thrust Washer	2
12	GM46693	Dowel Pin	1
13	GM96036	Shaft	1
14	GM96235	Gear	1
15	360514	Stud	3
16	#	Screw, M8 X 20	1

Common hardware; procure locally.

Group 39: Thermostat Housing

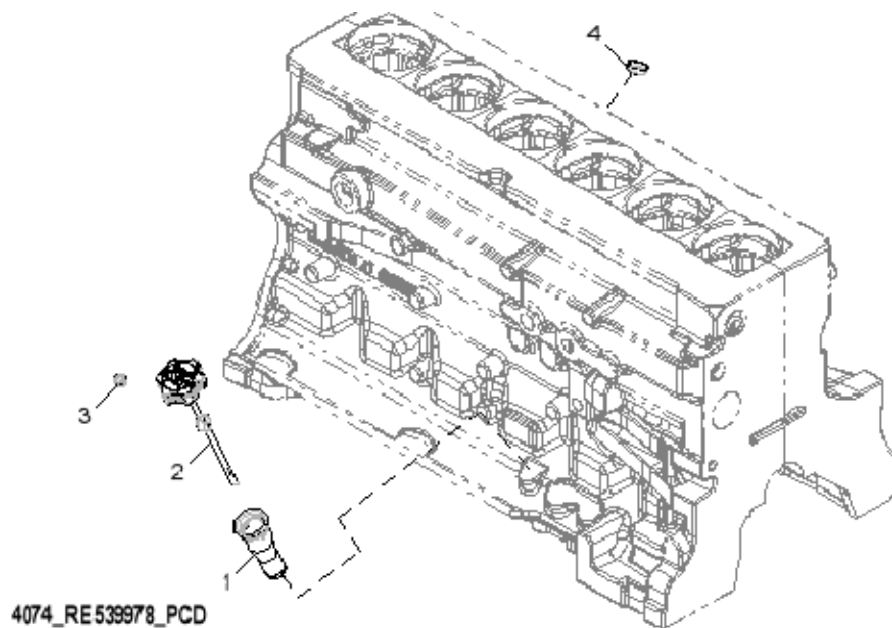


3949_RE549743_PCD

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
			Variation 3949				Variation 3949
1	GM95936	Adapter Fitting	2	19	GM95888	O-Ring	1
2	GM95886	Adapter Fitting	1	20	GM96132	Fitting	1
3	360178	O-Ring	1	21	360015	Plug	2
4	GM17557	O-Ring	1	22	GM96031	Housing	1
5	GM96148	Line	1	23	#	Screw, M10 X 55	6
6	GM95951	O-Ring	1	24	GM95885	Spring Pin	2
7	GM95942	Adapter Fitting	1	25	GM96010	O-Ring	1
8	360178	O-Ring	1	26	GM96032	Gasket	1
9	#	Screw, M8 X 85	6	27	GM50131	O-Ring	1
10	GM96206	Cover	1	28	#	Screw, M8 X 20	1
11	GM96046	Cover	1	29	GM96135	Line	1
12	GM95993	Orifice	1	30	GM67286	Hose Clamp	1
13	GM79841	Plug	1	31	GM96013	Hose	1
14	GM95996	Seal	2	32	GM50659	Clamp	1
15	GM96027	O-Ring	1	33	GM24516	Fitting	1
16	#	Screw, M8 X 16	1	34	GM32896	O-Ring	1
17	GM96079	Hose Clamp	3	35	GM96153	Line	1
18	GM96030	Hose	1				

Common hardware; procure locally.

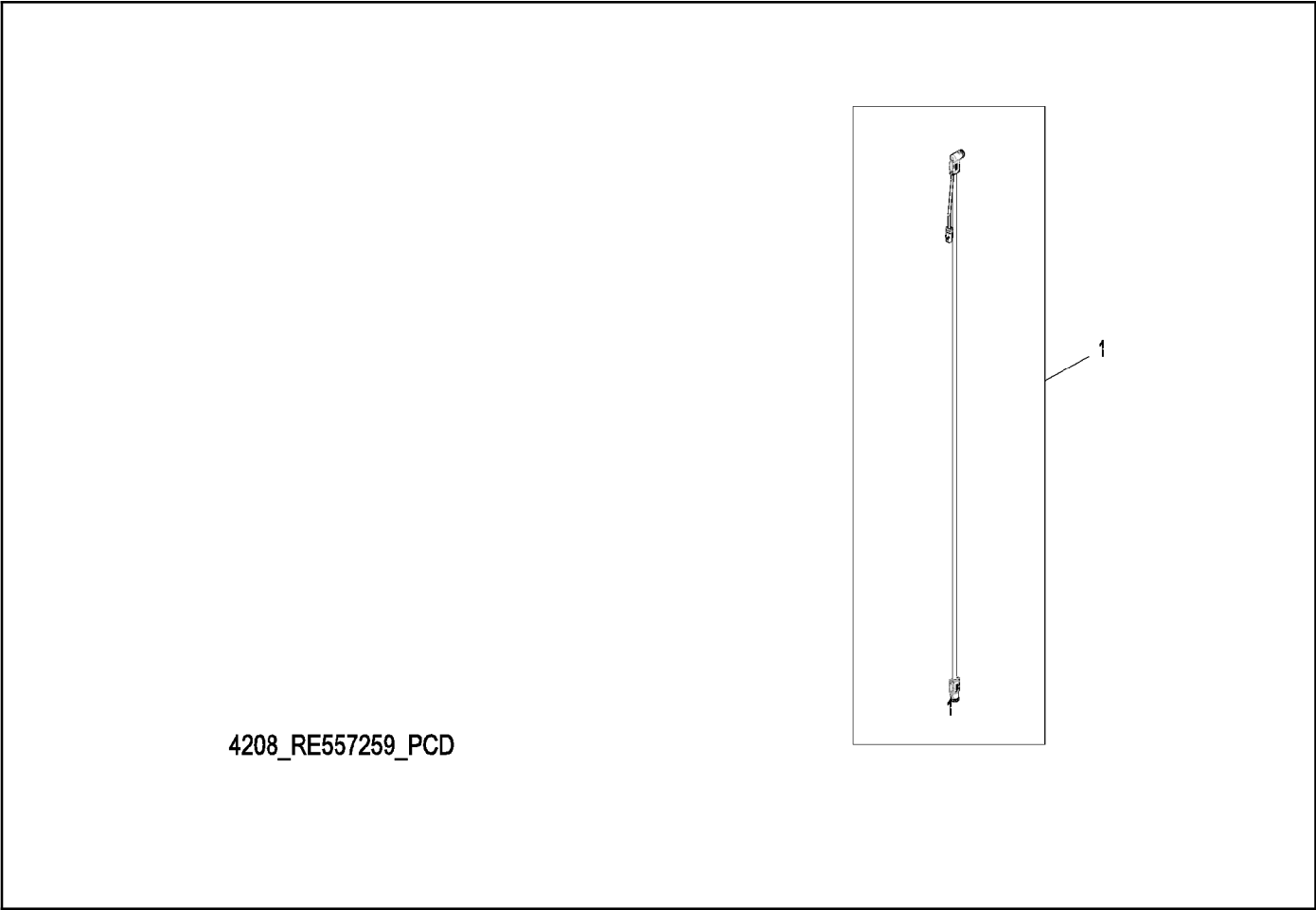
Group 40: Dipstick



Item	Part Number	Description	Qty.
			Variation 4074
1	GM96071	Dipstick Tube	1
2	GM96139	Dipstick	1
3	GM32789	Plug	1
4	GM95950	Plug	1

Common hardware; procure locally.

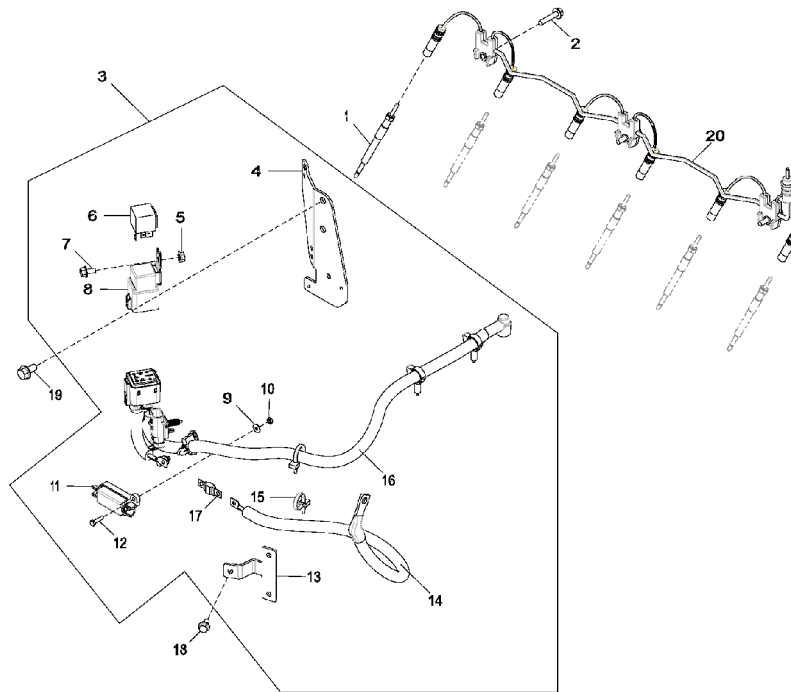
Group 42: DEF Line



Item	Part Number	Description	Qty.
			Variation 4208
1	GM96218	DEF Line	1

Common hardware; procure locally.

Group 43: Starting Aid

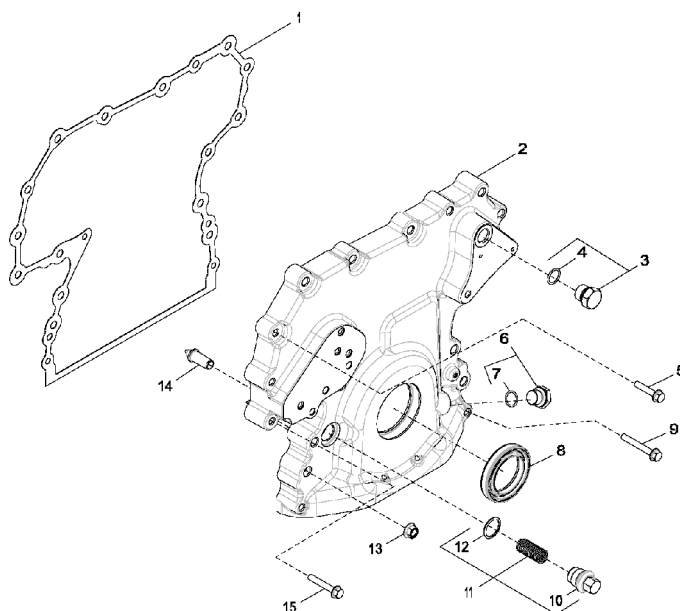


4349_RE539352_PCD

Item	Part Number	Description	Qty.
			Variation 4349
1	GM96099	Glow Plug	6
2	#	Screw, M6 X 30	3
3	GM96193	Wiring Harness	1
4	GM95981	Bracket	1
5	#	Flange Nut, M6	1
6	GM96053	Relay	1
7	GM50057	Screw	1
8	GM96011	Cover	1
9	#	Washer, 4.300 X 12 X 1 Mm	2
10	#	Nut, M4	2
11	GM95940	Fuse Holder	1
12	#	Cap Screw, M4 X 16	2
13	GM96007	Bracket	1
14	GM96125	Wiring Harness	1
15	GM80286	Tie Band	2
16	GM96141	Wiring Harness	1
17	GM95895	Fuse	1
18	GM50057	Screw	1
19	#	Screw, M8 X 16	2
20	GM96109	Wiring Harness	1

Common hardware; procure locally.

Group 44: Timing Gear Cover

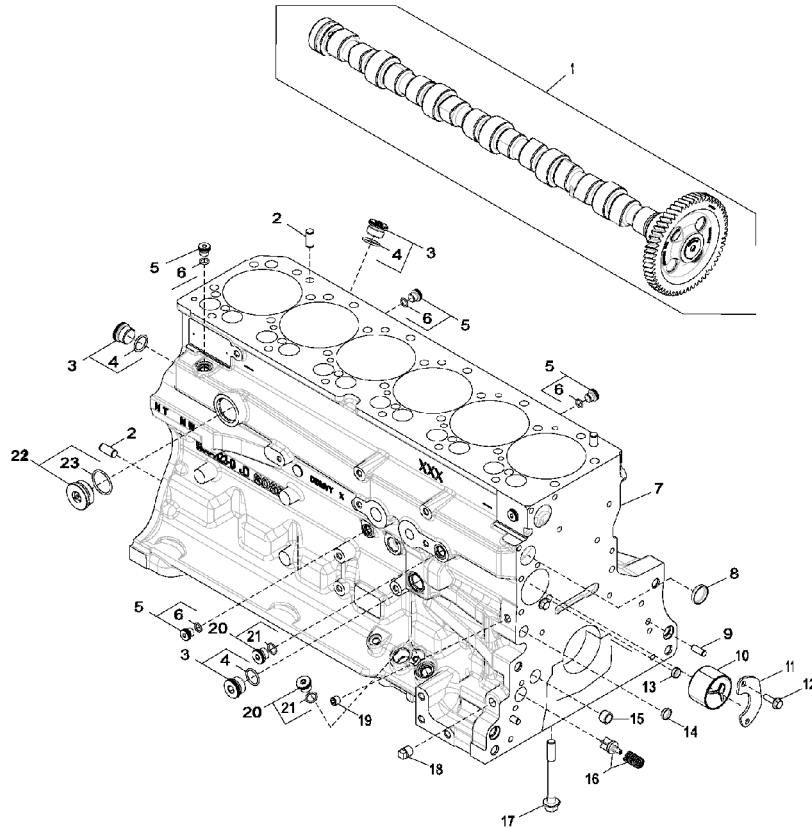


44AC_RE598324_PCD

Item	Part Number	Description	Qty.
			Variation 44AC
1	GM95976	Gasket	1
2	GM96060	Cover	1
3	GM17498	Fitting	1
4	GM17437	O-Ring	1
5	#	Screw, M8 X 40	1
6	360078	Plug, Drain	1
7	360180	O-Ring, 17.3 X 2.2 Mm	1
8	GM96083	Seal	1
9	#	Screw, M8 X 60	3
10	336454	Fitting Plug	1
11	224095	Spring	1
12	223410	Washer	1
13	GM30375	Flange Nut, M10	7
14	224058	Valve	1
15	#	Screw, M8 X 50	3

Common hardware; procure locally.

Group 46: Cylinder Block

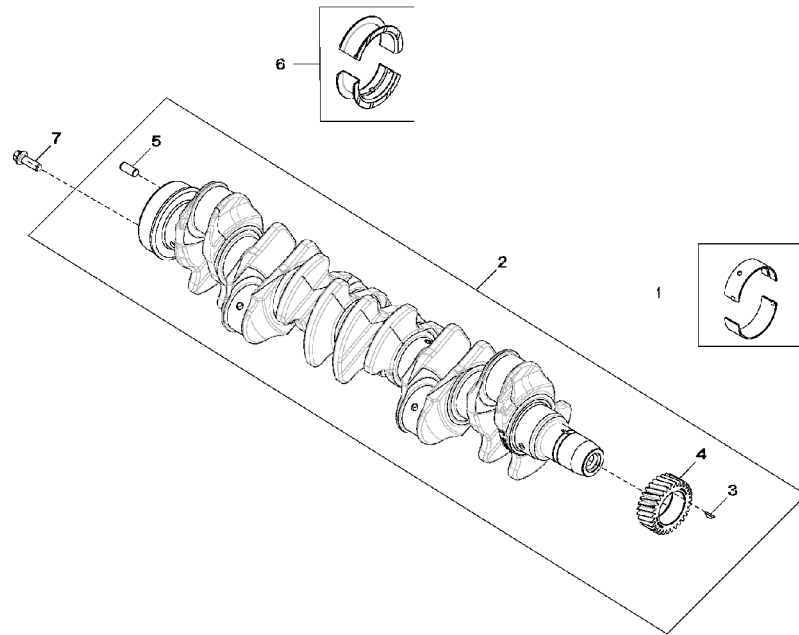


4681_RE549438_PCD

Item	Part Number	Description	Qty.
			Variation 4681
1	GM96211	Camshaft	1
2	GM49822	Pin, Dowel	4
2	GM95938	Dowel Pin	4
3	GM96103	Fitting	4
4	GM69810	O-Ring	1
5	GM96101	Fitting	5
6	GM21508	O-Ring	1
7	-	Cylinder Block	1
8	360093	Plug	1
9	GM49823	Pin, Dowel	2
9	GM95943	Dowel Pin	2
10	352246	Bushing	1
11	360154	Plate, Thrust	1
12	#	Screw, M8 X 25	2
13	360517	Cap	2
14	GM79841	Plug	1
15	360518	Bushing	1
16	GM21420	Valve Kit	1
17	GM95965	Cap Screw	14
18	#	Pipe Plug, 3/8"	1
19	-	Pipe Plug	1
20	GM96102	Fitting	3
21	360176	O-Ring	1
22	GM32824	Plug	1
23	223988	O-Ring	1

Common hardware; procure locally.

Group 47: Crankshaft

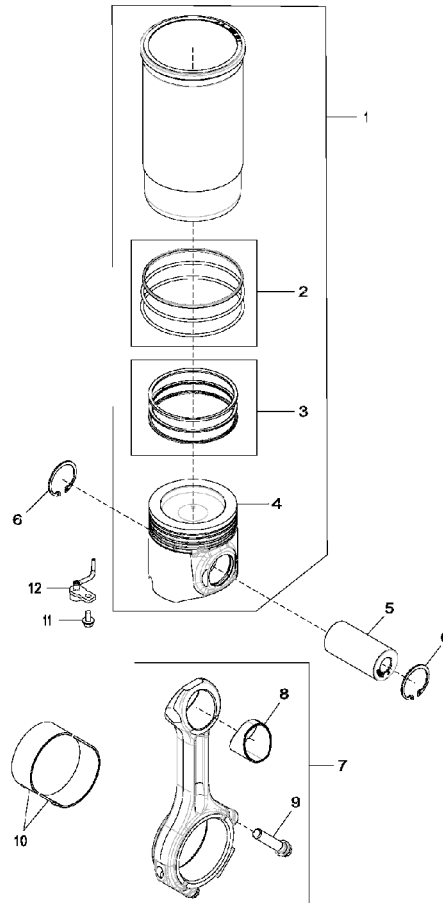


4732_RE568156_PCD

Item	Part Number	Description	Qty.
			Variation 4732
1	360049	Bearing, Standard	6
2	GM96236	Crankshaft	1
3	GM50610	Shaft Key	1
4	GM96072	Gear	1
5	GM49822	Pin, Dowel	1
5	GM95938	Dowel Pin	1
6	360050	Bearing, Standard	1
7	360581	Bolt	6

Common hardware; procure locally.

Group 48: Piston, Cylinder Liner

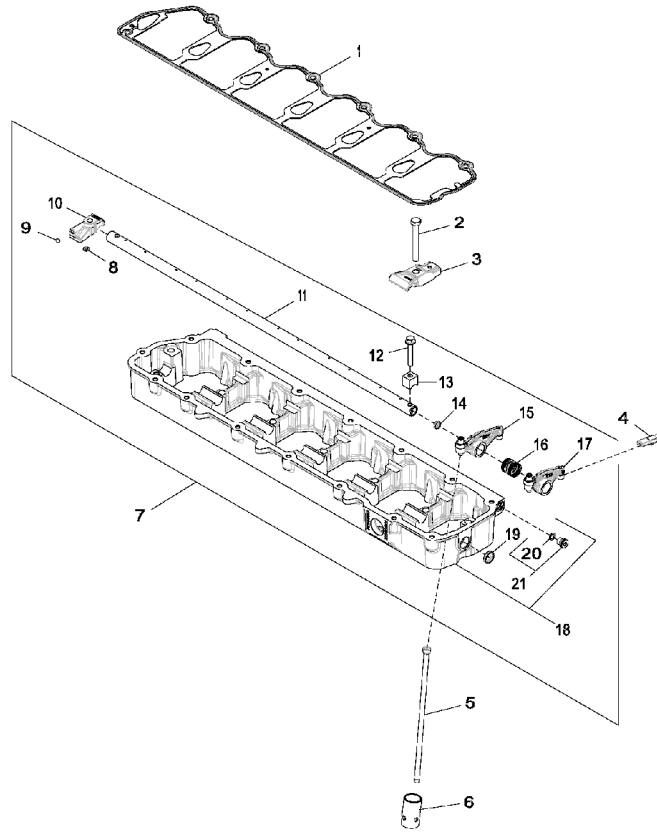


4865_RE553620_PCD

Item	Part Number	Description	Qty.
			Variation 4865
1	GM96222	Piston-Liner Kit	6
2	GM96107	Seal Kit	6
3	-	Piston Ring Kit	6
4	-	Piston (Order Item 1)	6
5	GM95983	Piston Pin	6
6	223479	Snap Ring	12
7	GM17610	Connecting Rod	6
8	GM17446	Bushing	1
9	GM17477	Screw	2
10	GM96105	Cushion Kit	6
11	GM96000	Cap Screw	6
12	GM96208	Nozzle	6

Common hardware; procure locally.

Group 49: Valve Train Actuation

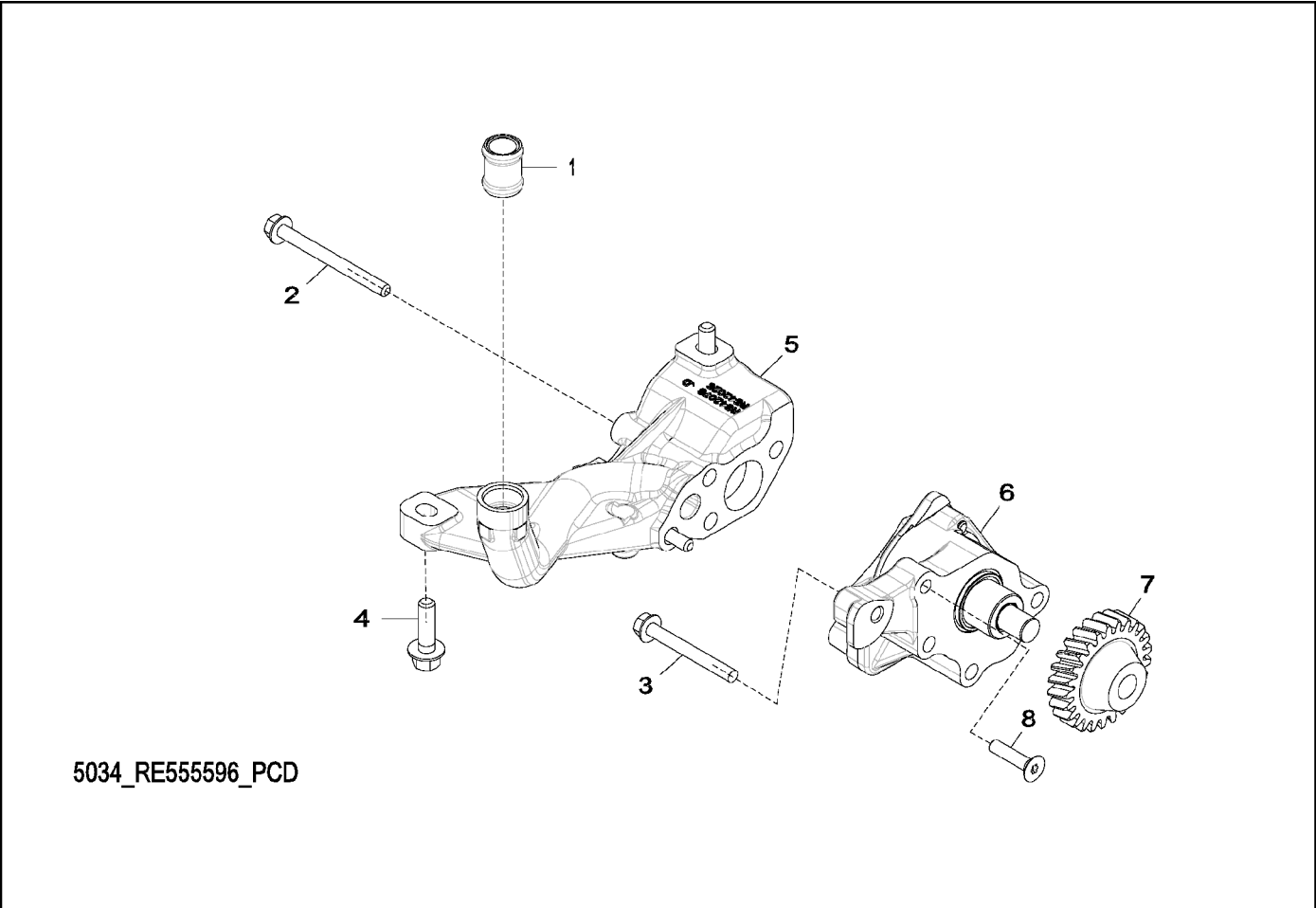


4909_RE549746_PCD

Item	Part Number	Description	Qty.
			Variation 4909
1	GM96023	Gasket	1
2	#	Cap Screw, M10 X 80	7
3	GM96038	Strap	5
4	GM95966	Valve Bridge	12
5	GM96234	Push Rod	12
6	360135	Tappet	12
7	GM96215	Rocker Arm Shaft	1
8	GM49886	O-Ring	1
9	GM49930	Ball	1
10	GM96144	Half Clamp	1
11	GM96081	Rocker Arm Shaft	1
12	#	Screw, M8 X 50	1
13	GM46604	Clamp	1
14	GM49818	Plug	2
15	GM96180	Rocker Arm	6
16	GM96069	Spring	6
17	GM96179	Rocker Arm	6
18	GM96216	Housing	1
19	GM95884	Plug	1
20	360178	O-Ring	1
21	GM96100	Fitting	2

Common hardware; procure locally.

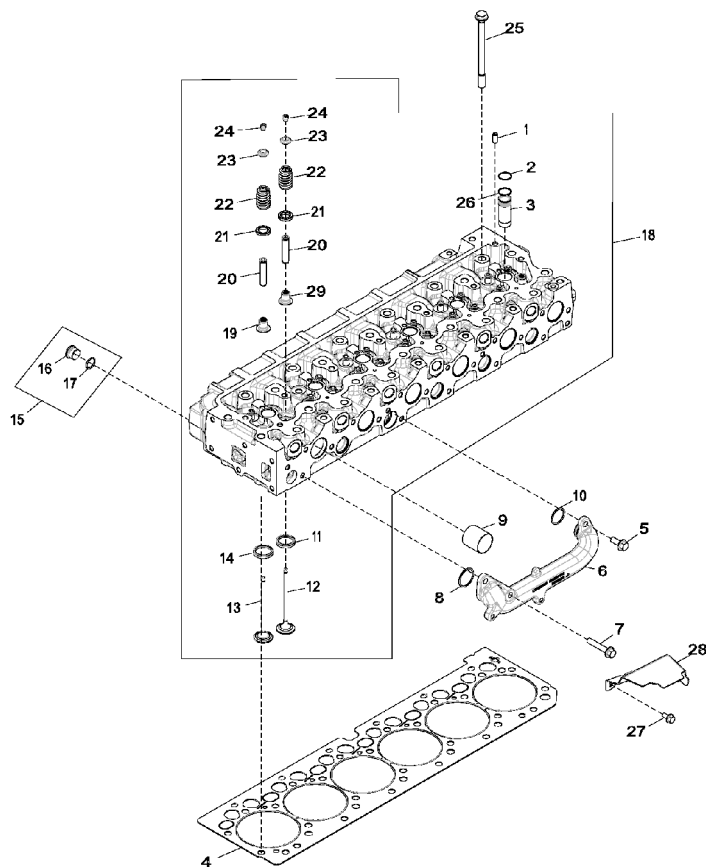
Group 50: Oil Pump



Item	Part Number	Description	Qty.
			Variation 5034
1	GM95980	Tube	1
2	GM96075	Screw	2
3	#	Screw, M8 X 70	1
4	GM63708	Screw, M10 X 35	2
5	GM96068	Bracket	1
6	GM96227	Oil Pump	1
7	GM95969	Gear	1
8	GM96009	Screw	1

Common hardware; procure locally.

Group 51: Cylinder Head

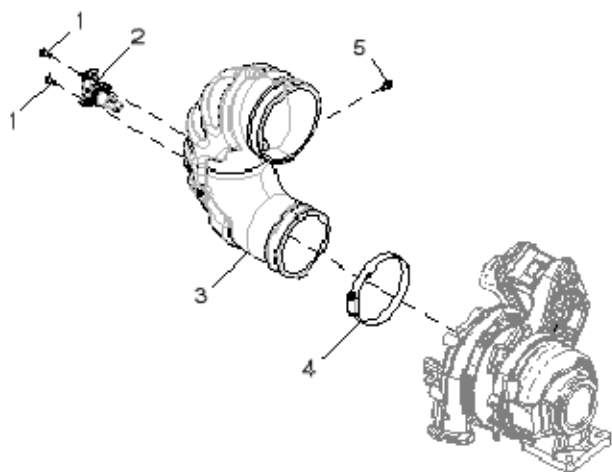


5148_RE550289_PCD

Item	Part Number	Description	Qty.
			Variation 5148
1	GM95971	Bushing	2
2	-	O-Ring	6
3	GM46683	Sleeve	1
4	GM96138	Engine Cylinder Head Gasket	1
5	#	Screw, M10 X 25	2
6	GM96045	Coolant Manifold	1
7	#	Screw, M10 X 55	1
8	GM95946	O-Ring	1
9	GM46676	Sleeve	6
10	GM95170	O-Ring	1
11	GM95959	Valve Seat Insert	12
12	GM96040	Exhaust Valve	12
13	GM96041	Intake Valve	12
14	GM95960	Valve Seat Insert	12
15	GM88720	Fitting Plug	1
16	GM17447	Fitting	1
17	GM17437	O-Ring	1
18	GM96143	Cylinder Head	1
19	GM96082	Seal	12
20	GM96054	Guide	24
21	GM96067	Washer	24
22	GM96039	Spring	24
23	GM46673	Cap	24
24	GM88786	Retainer	48
25	GM96043	Screw	26
26	-	O-Ring	1
27	#	Screw, M8 X 16	2
28	GM96063	Heat Shield	1
29	GM96124	Seal	12

Common hardware; procure locally.

Group 54: Air Intake Hose

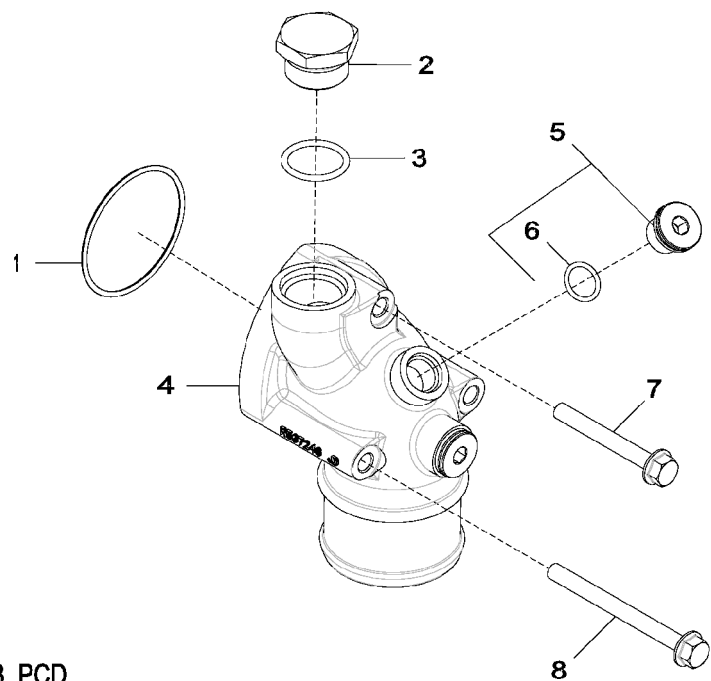


5413_RE540395_PCD

Item	Part Number	Description	Qty.
			Variation 5413
1	#	Cap Screw, M6 X 12	2
2	GM96147	Sensor	1
3	GM96095	Hose	1
4	GM50083	Clamp, Hose	1
5	#	Screw, M6 X 12	1

Common hardware; procure locally.

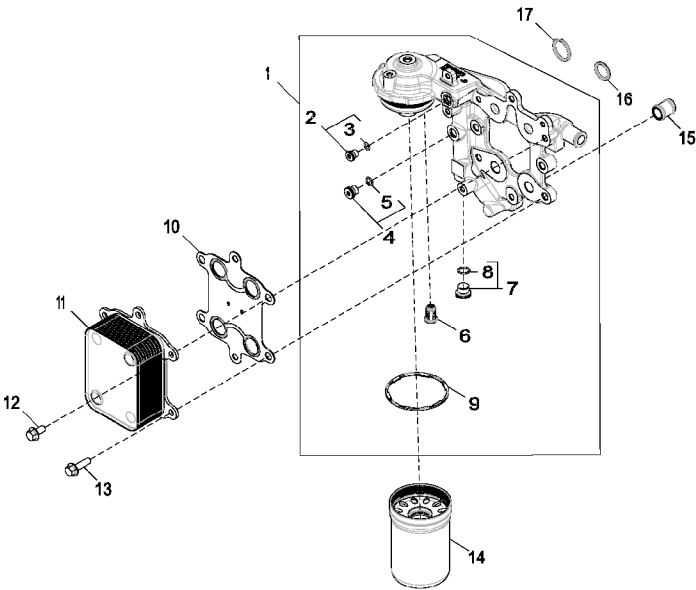
Group 57: Water Pump Inlet



Item	Part Number	Description	Qty.
			Variation 5734
1	GM96003	O-Ring	1
2	GM96078	Drain Plug	1
3	223989	O-Ring	1
4	GM96055	Water Pump Connection	1
5	GM96102	Fitting	2
6	360176	O-Ring	1
7	#	Screw, M8 X 65	1
8	#	Screw, M8 X 90	2

Common hardware; procure locally.

Group 59: Oil Cooler and Filter

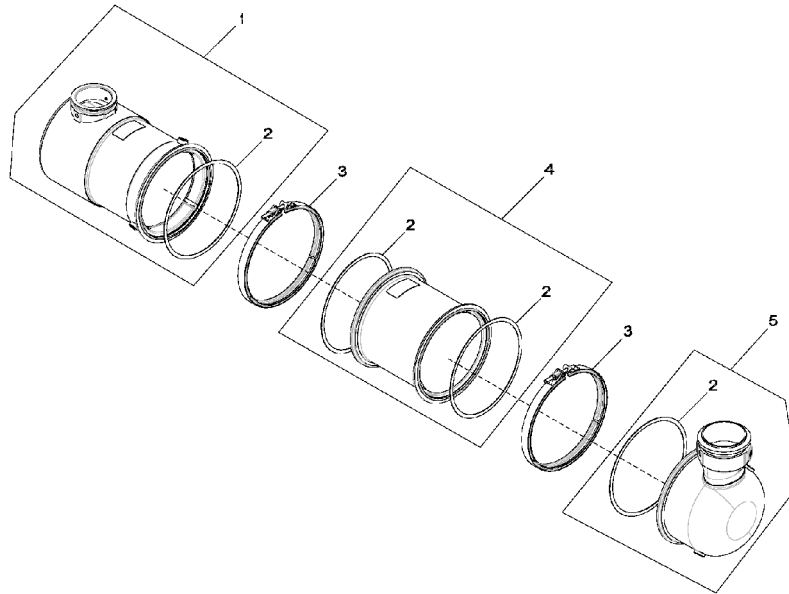


5970_RE551129_PCD

Item	Part Number	Description	Qty.
			Variation 5970
1	GM96172	Filter Head	1
2	GM96100	Fitting	1
3	360178	O-Ring	1
4	GM96101	Fitting	1
5	GM21508	O-Ring	1
6	GM32807	Valve	1
7	GM96102	Fitting	1
8	360176	O-Ring	1
9	GM32787	Seal	1
10	GM95979	Gasket	1
11	GM95978	Oil Cooler	1
12	GM32765	Screw	4
13	M933-1003 5-82	SCREW, HEX CAP M10 X 35mm	4
14	GM96104	Oil Filter	1
15	GM95980	Tube	1
16	GM96001	O-Ring	1
17	GM96002	O-Ring	1

Common hardware; procure locally.

Group 61: Exhaust Filter

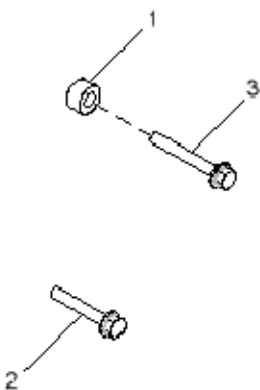


6157_RE502688_PCD

Item	Part Number	Description	Qty.
			Variation 6157
1	GM96225	Diesel Oxidation Catalyst	1
2	GM96014	Gasket	2
3	GM96089	Clamp	2
4	GM96224	Diesel Particulate Filter	1
5	GM96226	Exhaust Pipe	1

Common hardware; procure locally.

Group 62: Alternator Mounting

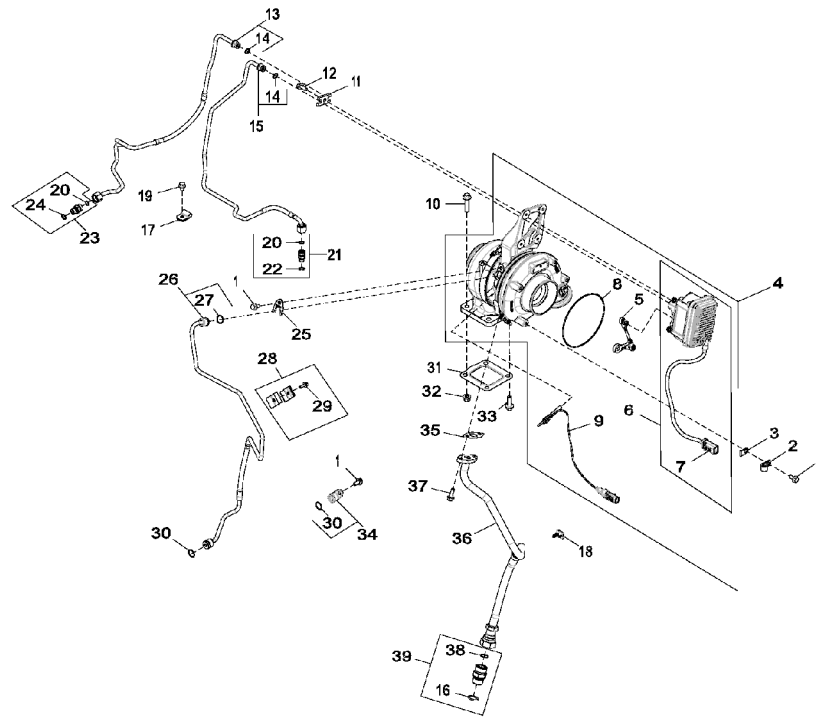


6297_RE500188_PCD

Item	Part Number	Description	Qty.
			Variation 6297
1	GM95944	Spacer	1
2	#	Screw, M8 X 50	1
3	#	Screw, M8 X 60	1

Common hardware; procure locally.

Group 65: Turbocharger



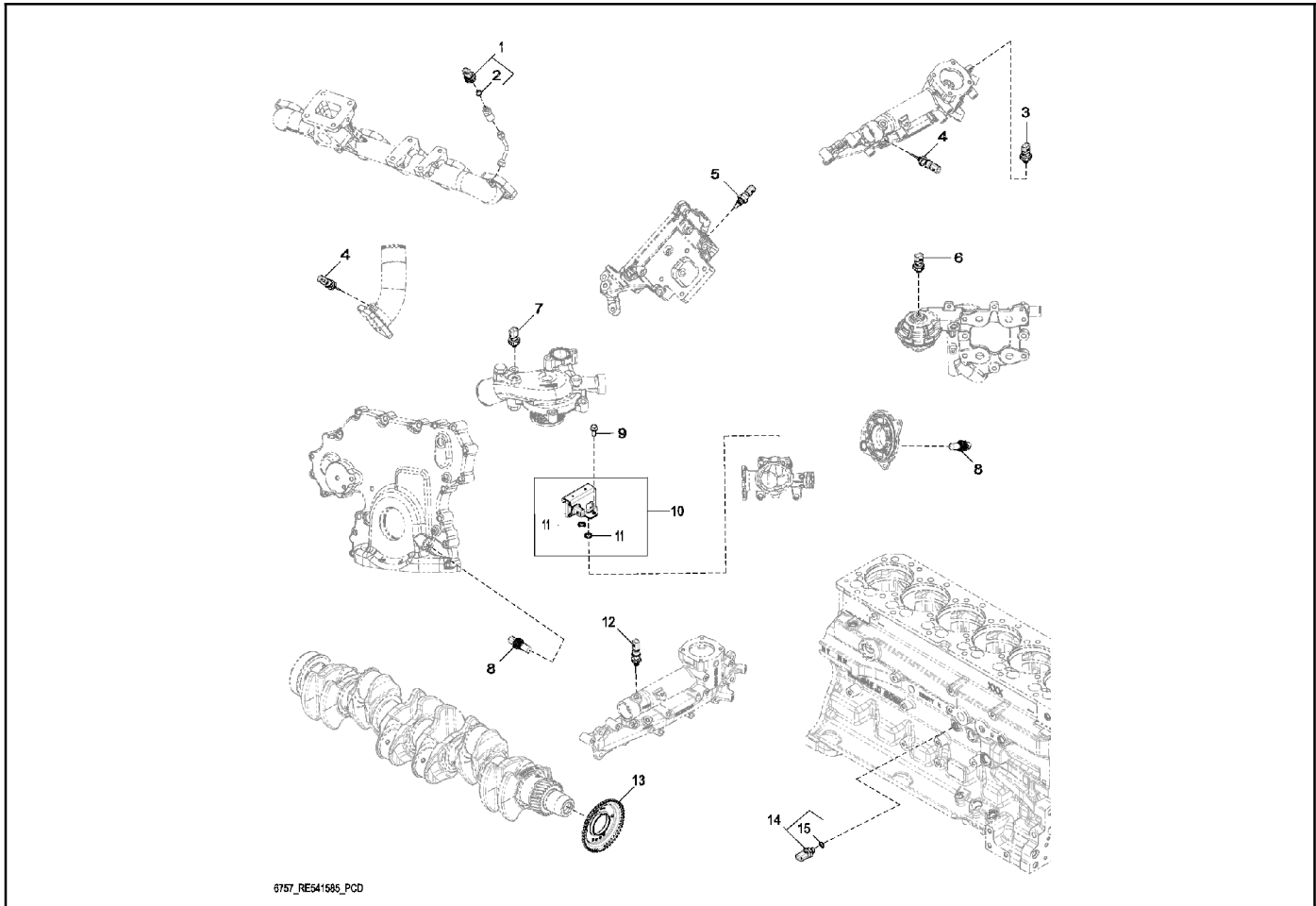
65N4_RE555971_PCD

Item	Part Number	Description	Qty.
			Variation 65N4
1	#	Screw, M8 X 16	5
2	GM95899	Half Clamp	2
3	GM95906	Half Clamp	2
4	GM96230	Turbocharger	1
5	GM96116	Linkage Kit	1
6	GM96150	Actuator Kit	1
7	GM95909	Elec. Connector Housing	1
8	GM95999	O-Ring	1
9	GM96115	Sensor Kit	1
10	GM96025	Cap Screw	2
11	GM95977	Clamp	1
12	#	Screw, M8 X 20	1
13	GM96243	Line	1
14	GM95957	O-Ring	1
15	GM96140	Line	1
16	GM69810	O-Ring	1
17	GM50085	Clamp	2
18	GM95935	Elec. Connector Accessory	2
19	#	Screw, M8 X 12	2
20	360555	O-Ring	1

Item	Part Number	Description	Qty.
			Variation 65N4
21	GM49821	Fitting, Adapter	1
22	360178	O-Ring	1
23	GM50116	Fitting, Adapter	1
24	GM21508	O-Ring	1
25	GM95989	Clamp	2
26	GM96233	Line	1
27	GM96016	O-Ring	1
28	GM96127	Clamp Kit	1
29	GM95664	Screw, M6 X 16	1
30	GM95954	O-Ring	1
31	GM96044	Gasket	1
32	GM96061	Flange Nut	2
32	GM96062	Flange Nut	2
33	GM96026	Cap Screw	2
34	GM96199	Plug	1
35	GM49894	Gasket	1
36	GM96168	Oil Line	1
37	GM49825	Screw	2
38	GM69811	O-Ring	1
39	GM69809	Fitting, Adapter	1

Common hardware; procure locally.

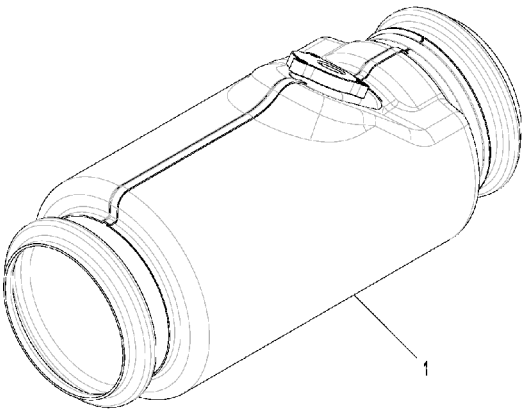
Group 67: Engine Sensors



Item	Part Number	Description	Qty.
			Variation 6757
1	GM96131	Pressure Sensor	1
2	GM50114	O-Ring	1
3	GM88789	Manifold Air Press. Sensor	1
4	GM96085	Temperature Sensor	2
5	GM96087	Coolant Temperature Sensor	1
6	GM96088	Engine Oil Press. Sensor	1
7	GM96112	Pressure Sensor	1
8	GM96084	Sensor	2
9	#	Screw, M8 X 20	2
10	GM96151	Pressure Sensor	1
11	GM95998	O-Ring	2
12	GM96086	Temperature Sensor	1
13	GM49838	Wheel	1
14	GM96152	Pressure Sensor	1
15	GM21508	O-Ring	1

Common hardware; procure locally.

Group 70: Exhaust Pipe

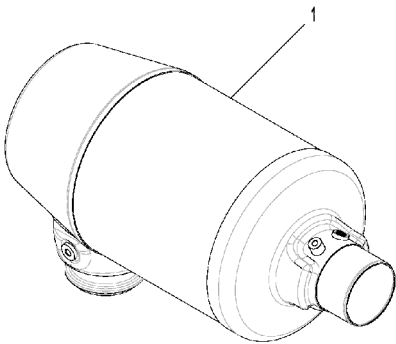


7009_RE566149_PCD

Item	Part Number	Description	Qty.
			Variation 7009
1	GM96229	Tube	1

Common hardware; procure locally.

Group 71: SCR Catalyst



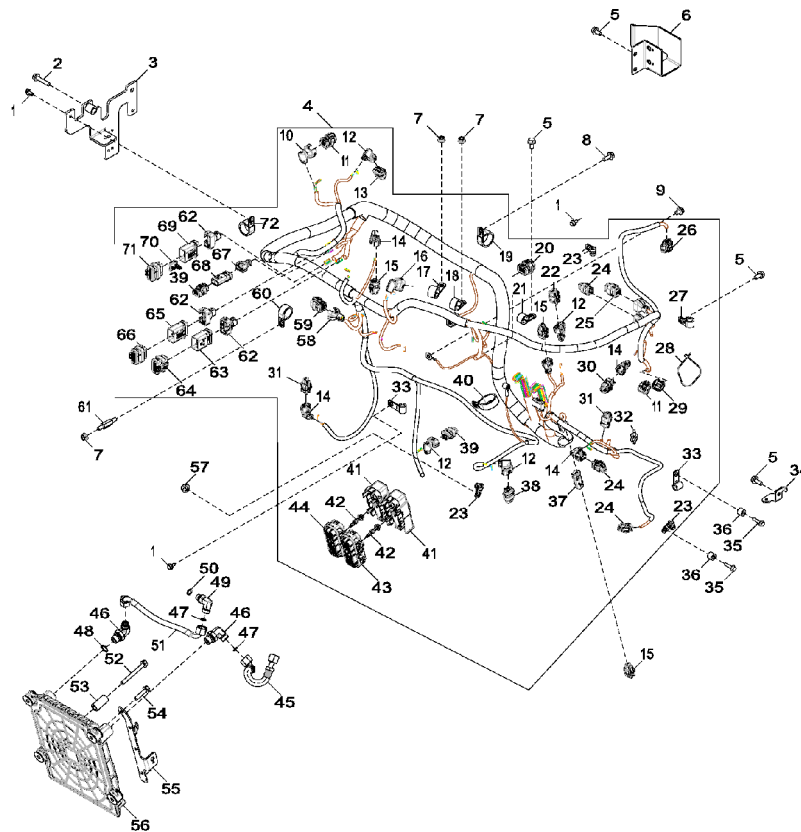
7102_RE556328_PCD

Item	Part Number	Description	Qty.
			Variation 7102
1	GM96195	Converter	1

Common hardware; procure locally.

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Group 84: Wiring Harness



84DV_RE551858_PCD

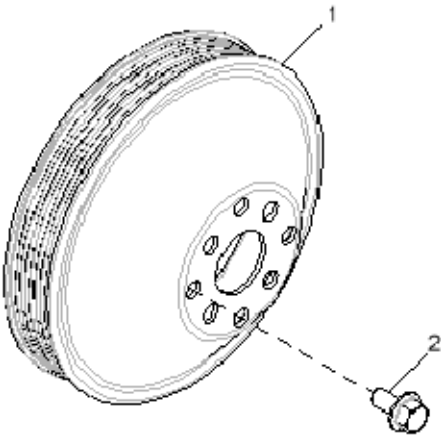
Group 84: Wiring Harness (continued)

Item	Part Number	Description	Qty.
			Variation 84DV
1	#	Screw, M6 X 12	4
2	#	Screw, M8 X 40	3
3	GM96238	Bracket	1
4	GM96237	Wiring Harness	1
5	#	Screw, M8 X 16	8
6	GM96185	Bracket	1
7	#	Flange Nut, M8	2
8	#	Screw, M8 X 20	3
9	GM95963	Cap Screw	1
10	GM95893	Elec. Connector Accessory	1
11	GM95919	Elec. Connector Housing	3
12	GM95892	Elec. Connector Accessory	3
13	GM95917	Elec. Connector Housing	2
14	GM95891	Elec. Connector Accessory	1
15	GM95912	Elec. Connector Housing	2
16	GM95894	Elec. Connector Accessory	1
17	GM95905	Half Clamp	1
18	GM95896	Half Clamp	2
19	GM95901	Half Clamp	2
20	GM95923	Elec. Connector Housing	1
21	GM95903	Half Clamp	3
22	GM95915	Elec. Connector Housing	3
23	GM95907	Half Clamp	4
24	GM95913	Elec. Connector Housing	3
25	GM95930	Elec. Connector Housing	1
26	GM95908	Elec. Connector Housing	1
27	GM95900	Half Clamp	1
28	GM80286	Tie Band	1
29	GM95921	Elec. Connector Housing	1
30	GM95911	Elec. Connector Housing	3
31	GM95910	Elec. Connector Housing	3
32	GM96080	Tie Band	14
33	GM95904	Half Clamp	2
34	GM96064	Bracket	1
35	#	Screw, M6 X 25	2
36	GM96077	Sleeve	2

Item	Part Number	Description	Qty.
			Variation 84DV
37	GM95914	Elec. Connector Housing	1
38	GM95916	Elec. Connector Housing	2
39	GM95918	Elec. Connector Housing	2
40	GM95902	Half Clamp	1
41	GM94356	Cover, Connector	2
42	GM96142	Bolt Kit	2
43	GM96096	Elec. Connector Accessory	1
44	GM96097	Elec. Connector Accessory	1
45	GM96093	Hose	1
46	GM96205	Elbow Fitting	2
47	360165	O-Ring	4
48	GM80381	O-Ring	2
49	GM96196	Elbow Fitting	2
50	GM50114	O-Ring	2
51	GM96174	Fuel Line	1
52	#	Screw, M8 X 75	1
53	GM95952	Spacer	1
54	#	Screw, M8 X 35	3
55	GM96239	Bracket	1
56	GM96176	Engine Controller	1
57	GM30375	Flange Nut, M10	1
58	GM95933	Elec. Connector Accessory	1
59	GM95920	Elec. Connector Housing	1
60	GM95897	Half Clamp	2
61	GM95991	Stud	1
62	GM95934	Elec. Connector Accessory	3
63	GM95927	Elec. Connector Housing	1
64	GM95924	Elec. Connector Housing	1
65	GM95928	Elec. Connector Housing	1
66	GM95925	Elec. Connector Housing	1
67	GM95932	Elec. Connector Accessory	1
68	GM95929	Elec. Connector Housing	1
69	GM95931	Elec. Connector Housing	1
70	GM95935	Elec. Connector Accessory	6
71	GM95926	Elec. Connector Housing	1
72	GM95898	Half Clamp	2

Common hardware; procure locally.

Group 86: Fan Pulley

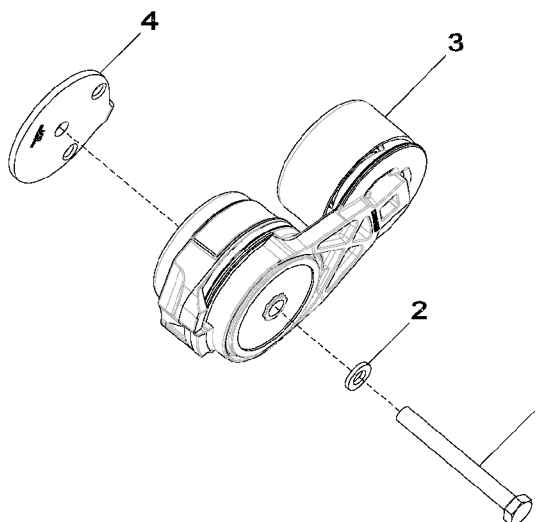


8668_RE544366_PCD

Item	Part Number	Description	Qty.
			Variation 8668
1	GM24522	Sheave (Pulley)	1
2	GM32765	Screw	4

Common hardware; procure locally.

Group 87: Belt Tensioner

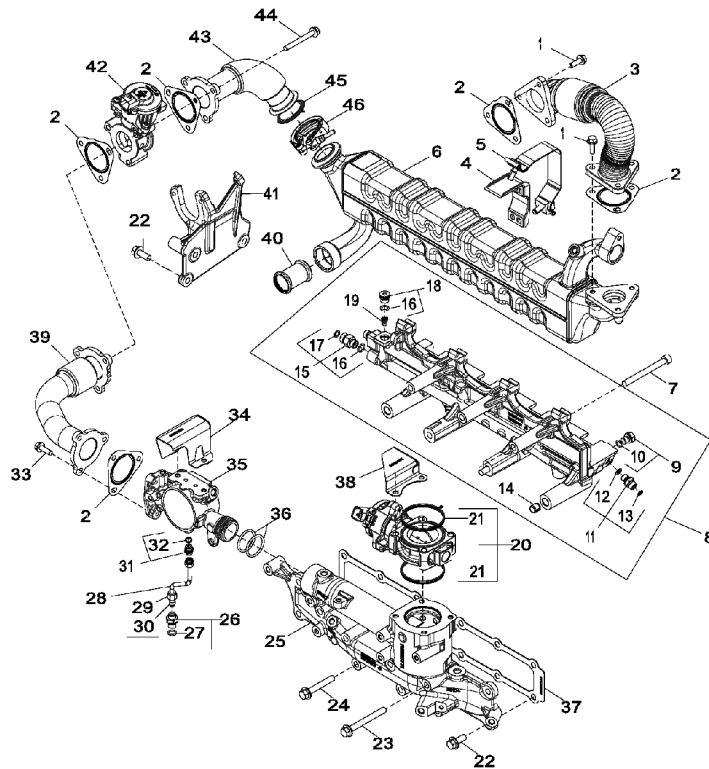


8735_RE541961_PCD

Item	Part Number	Description	Qty.
			Variation 8735
1	#	Cap Screw, M10 X 90	1
2	#	Washer, 10 X 18 X 2.500 Mm	1
3	GM96149	Belt Tensioner	1
4	GM88681	Spacer	1

Common hardware; procure locally.

Group 89: Exhaust Gas Recirculation

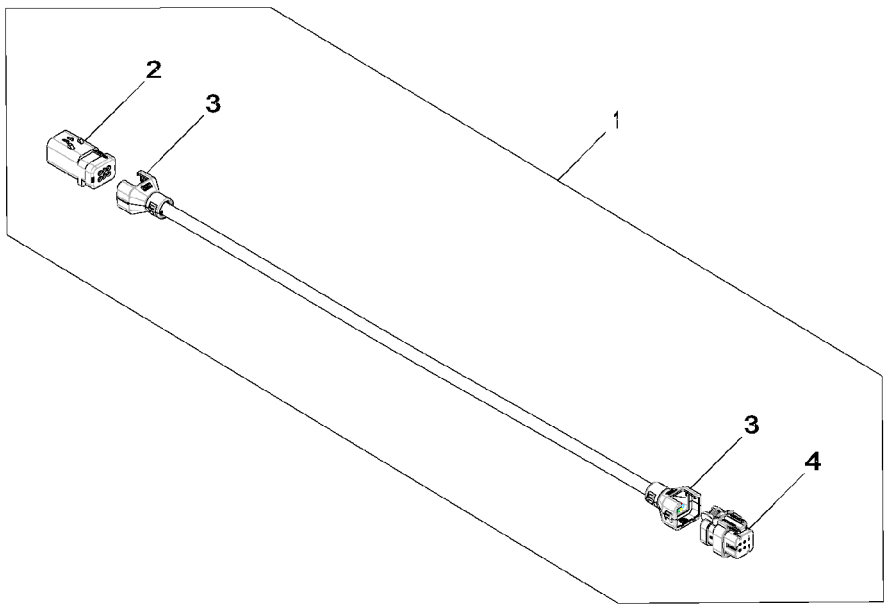


8932_RE551022_PCD

Item	Part Number	Description	Qty.	Item	Part Number	Description	Qty.
			Variation 8932				Variation 8932
1	GM96070	Cap Screw	6	25	GM96178	Intake Manifold	1
2	GM95968	Gasket	5	26	GM96136	Adapter Fitting	1
3	GM96118	Tube	1	27	GM21508	O-Ring	1
4	GM95990	Pad	4	28	GM96137	Line	1
5	GM96122	Clamp	4	29	360141	Nut	2
6	GM96170	Heat Exchanger	1	30	223476	Packing	2
7	#	Screw, M10 X 100	7	31	360036	Fitting	1
8	GM96184	Bracket	1	32	GM32896	O-Ring	1
9	360015	Plug	1	33	#	Screw, M8 X 25	3
10	360178	O-Ring	1	34	GM96019	Heat Shield	1
11	GM96094	Fitting	3	35	GM96188	Venturi	1
12	GM95985	O-Ring	1	36	GM96244	O-Ring	2
13	GM95986	O-Ring	1	37	GM95982	Gasket	1
14	GM95885	Spring Pin	2	38	GM96021	Heat Shield	1
15	GM96106	Fitting	1	39	GM96117	Tube	1
16	GM50114	O-Ring	1	40	GM95975	Tube	1
17	360165	O-Ring	1	41	GM96047	Bracket	1
18	GM96119	Fitting	1	42	GM96167	Exhaust Gas Recycling Valve	1
19	GM96111	Valve Kit	1	43	GM96145	Tube	1
20	GM96098	Valve	1	44	#	Screw, M8 X 70	3
21	GM95974	Seal	2	45	GM96017	Gasket	1
22	#	Screw, M10 X 25	10	46	GM96231	Clamp	1
23	#	Screw, M10 X 90	3				
24	#	Screw, M10 X 65	4				

Common hardware; procure locally.

Group 91: Extension Harness

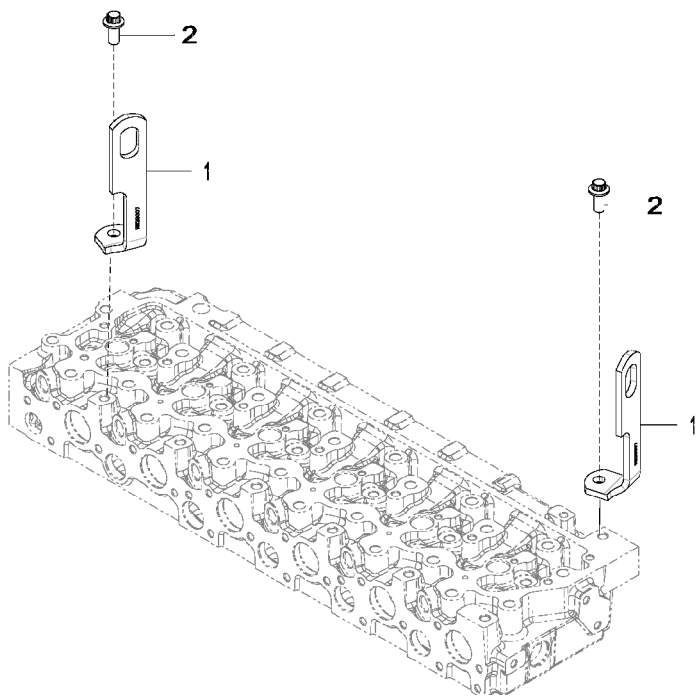


91AK_RE555435_PCD

Item	Part Number	Description	Qty.
			Variation 91AK
1	GM96223	Wiring Harness	1
2	GM95922	Elec. Connector Housing	1
3	GM95933	Elec. Connector Accessory	2
4	GM95920	Elec. Connector Housing	1

Common hardware; procure locally.

Group 98: Engine Lift Strap



9842_RE541515_PCD

Item	Part Number	Description	Qty.
			Variation 9842
1	GM95988	Angle	2
2	GM96018	Cap Screw	2

Common hardware; procure locally.

Appendix A Common Hardware Identification

Screw/Bolts/Studs	
Head Styles	
Hex Head or Machine Head	
Hex Head or Machine Head with Washer	
Flat Head (FHM)	
Round Head (RHM)	
Pan Head	
Hex Socket Head Cap or Allen™ Head Cap	
Hex Socket Head or Allen™ Head Shoulder Bolt	
Sheet Metal Screw	
Stud	
Drive Styles	
Hex	
Hex and Slotted	
Phillips®	
Slotted	
Hex Socket	

Nuts	
Nut Styles	
Hex Head	
Lock or Elastic	
Square	
Cap or Acorn	
Wing	
Washers	
Washer Styles	
Plain	
Split Lock or Spring	
Spring or Wave	
External Tooth Lock	
Internal Tooth Lock	
Internal-External Tooth Lock	

Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9 (Hex Socket Head)	
Metric	
Number stamped on hardware; 5.8 shown	

Allen™ head screw is a trademark of Holo-Krome Co.

Phillips® screw is a registered trademark of Phillips Screw Company.

Sample Dimensions

American Standard (Screws, Bolts, Studs, and Nuts)

$\frac{1}{4}$ -20 x 1
 Length In Inches (Screws and Bolts)
 Threads Per Inch
 Major Thread Diameter In Fractional Inches Or Screw Number Size

Metric (Screws, Bolts, Studs, and Nuts)

M8-1.25 x 20
 Length In Millimeters (Screws and Bolts)
 Distance Between Threads In Millimeters
 Major Thread Diameter In Millimeters

Plain Washers

$\frac{9}{32}$ x $\frac{5}{8}$ x $\frac{1}{16}$
 Thickness
 External Dimension
 Internal Dimension

Lock Washers

$\frac{5}{8}$
 Internal Dimension

Appendix B Common Hardware List

The Common Hardware List lists part numbers and dimensions for common hardware items.

American Standard

Part No.	Dimensions	Part No.	Dimensions	Part No.	Dimensions	Type			
Hex Head Bolts (Grade 5)		Hex Head Bolts, cont.		Hex Nuts					
X-465-17	1/4-20 x .38	X-6238-14	3/8-24 x .75	X-6009-1	1-8	Standard			
X-465-6	1/4-20 x .50	X-6238-16	3/8-24 x 1.25		X-6210-3	6-32	Whiz		
X-465-2	1/4-20 x .62	X-6238-21	3/8-24 x 4.00			X-6210-4	8-32	Whiz	
X-465-16	1/4-20 x .75	X-6238-22	3/8-24 x 4.50			X-6210-5	10-24	Whiz	
X-465-18	1/4-20 x .88					X-6210-1	10-32	Whiz	
X-465-7	1/4-20 x 1.00	X-6024-5	7/16-14 x .75		X-6210-2	1/4-20	Spiralock		
X-465-8	1/4-20 x 1.25	X-6024-2	7/16-14 x 1.00			X-6210-6	1/4-28	Spiralock	
X-465-9	1/4-20 x 1.50	X-6024-8	7/16-14 x 1.25			X-6210-7	5/16-18	Spiralock	
X-465-10	1/4-20 x 1.75	X-6024-3	7/16-14 x 1.50			X-6210-8	5/16-24	Spiralock	
X-465-11	1/4-20 x 2.00	X-6024-4	7/16-14 x 2.00			X-6210-9	3/8-16	Spiralock	
X-465-12	1/4-20 x 2.25	X-6024-11	7/16-14 x 2.75			X-6210-10	3/8-24	Spiralock	
X-465-14	1/4-20 x 2.75	X-6024-12	7/16-14 x 6.50		X-6210-11	7/16-14	Spiralock		
X-465-21	1/4-20 x 5.00	X-129-15	1/2-13 x .75		X-6210-12	1/2-13	Spiralock		
X-465-25	1/4-28 x .38	X-129-17	1/2-13 x 1.00		X-6210-15	7/16-20	Spiralock		
X-465-20	1/4-28 x 1.00	X-129-18	1/2-13 x 1.25	X-6210-14	1/2-20	Spiralock			
		X-129-19	1/2-13 x 1.50						
X-125-33	5/16-18 x .50	X-129-20	1/2-13 x 1.75	X-85-3	5/8-11	Standard			
X-125-23	5/16-18 x .62	X-129-21	1/2-13 x 2.00		X-88-12	3/4-10	Standard		
X-125-3	5/16-18 x .75	X-129-22	1/2-13 x 2.25			X-89-2	1/2-20	Standard	
X-125-31	5/16-18 x .88	X-129-23	1/2-13 x 2.50						
X-125-5	5/16-18 x 1.00	X-129-24	1/2-13 x 2.75						
X-125-24	5/16-18 x 1.25	X-129-25	1/2-13 x 3.00						
X-125-34	5/16-18 x 1.50	X-129-27	1/2-13 x 3.50						
X-125-25	5/16-18 x 1.75	X-129-29	1/2-13 x 4.00						
X-125-26	5/16-18 x 2.00	X-129-30	1/2-13 x 4.50						
230578	5/16-18 x 2.25	X-463-9	1/2-13 x 5.50						
X-125-29	5/16-18 x 2.50	X-129-44	1/2-13 x 6.00						
X-125-27	5/16-18 x 2.75								
X-125-28	5/16-18 x 3.00	X-129-51	1/2-20 x .75		X-25-46	.125	.250	.022	#4
X-125-22	5/16-18 x 4.50	X-129-45	1/2-20 x 1.25		X-25-9	.156	.375	.049	#6
X-125-32	5/16-18 x 5.00	X-129-52	1/2-20 x 1.50	X-25-48	.188	.438	.049	#8	
X-125-35	5/16-18 x 5.50			X-25-36	.219	.500	.049	#10	
X-125-36	5/16-18 x 6.00	X-6021-3	5/8-11 x 1.00	X-25-40	.281	.625	.065	1/4	
X-125-40	5/16-18 x 6.50	X-6021-4	5/8-11 x 1.25	X-25-85	.344	.687	.065	5/16	
		X-6021-2	5/8-11 x 1.50	X-25-37	.406	.812	.065	3/8	
X-125-43	5/16-24 x 1.75	X-6021-1	5/8-11 x 1.75	X-25-34	.469	.922	.065	7/16	
X-125-44	5/16-24 x 2.50	273049	5/8-11 x 2.00	X-25-26	.531	1.062	.095	1/2	
X-125-30	5/16-24 x .75	X-6021-5	5/8-11 x 2.25	X-25-15	.656	1.312	.095	5/8	
X-125-39	5/16-24 x 2.00	X-6021-6	5/8-11 x 2.50	X-25-29	.812	1.469	.134	3/4	
X-125-38	5/16-24 x 2.75	X-6021-7	5/8-11 x 2.75	X-25-127	1.062	2.000	.134	1	
		X-6021-12	5/8-11 x 3.75						
X-6238-2	3/8-16 x .62	X-6021-11	5/8-11 x 4.50						
X-6238-10	3/8-16 x .75	X-6021-10	5/8-11 x 6.00						
X-6238-3	3/8-16 x .88								
X-6238-11	3/8-16 x 1.00	X-6021-9	5/8-18 x 2.50						
X-6238-4	3/8-16 x 1.25								
X-6238-5	3/8-16 x 1.50	X-6239-1	3/4-10 x 1.00						
X-6238-1	3/8-16 x 1.75	X-6239-8	3/4-10 x 1.25						
X-6238-6	3/8-16 x 2.00	X-6239-2	3/4-10 x 1.50						
X-6238-17	3/8-16 x 2.25	X-6239-3	3/4-10 x 2.00						
X-6238-7	3/8-16 x 2.50	X-6239-4	3/4-10 x 2.50						
X-6238-8	3/8-16 x 2.75	X-6239-5	3/4-10 x 3.00						
X-6238-9	3/8-16 x 3.00	X-6239-6	3/4-10 x 3.50						
X-6238-19	3/8-16 x 3.25								
X-6238-12	3/8-16 x 3.50	X-792-1	1-8 x 2.25						
X-6238-20	3/8-16 x 3.75	X-792-5	1-8 x 3.00						
X-6238-13	3/8-16 x 4.50	X-792-8	1-8 x 5.00						
X-6238-18	3/8-16 x 5.50								
X-6238-25	3/8-16 x 6.50								

Metric

Hex head bolts are hardness grade 8.8 unless noted.

Part No. Dimensions Hex Head Bolts (Partial Thread)

M931-05055-60	M5-0.80 x 55
M931-06040-60	M6-1.00 x 40
M931-06055-60	M6-1.00 x 55
M931-06060-60	M6-1.00 x 60
M931-06060-SS	M6-1.00 x 60
M931-06070-60	M6-1.00 x 70
M931-06070-SS	M6-1.00 x 70
M931-06075-60	M6-1.00 x 75
M931-06090-60	M6-1.00 x 90
M931-06145-60	M6-1.00 x 145
M931-06150-60	M6-1.00 x 150

M931-08035-60	M8-1.25 x 35
M931-08040-60	M8-1.25 x 40
M931-08045-60	M8-1.25 x 45
M931-08050-60	M8-1.25 x 50
M931-08055-60	M8-1.25 x 55
M931-08055-82	M8-1.25 x 55*
M931-08060-60	M8-1.25 x 60
M931-08070-60	M8-1.25 x 70
M931-08070-82	M8-1.25 x 70*
M931-08075-60	M8-1.25 x 75
M931-08080-60	M8-1.25 x 80
M931-08090-60	M8-1.25 x 90
M931-08095-60	M8-1.25 x 95
M931-08100-60	M8-1.25 x 100
M931-08110-60	M8-1.25 x 110
M931-08120-60	M8-1.25 x 120
M931-08130-60	M8-1.25 x 130
M931-08140-60	M8-1.25 x 140
M931-08150-60	M8-1.25 x 150
M931-08200-60	M8-1.25 x 200

M931-10040-82	M10-1.25 x 40*
M931-10040-60	M10-1.50 x 40
M931-10045-60	M10-1.50 x 45
M931-10050-60	M10-1.50 x 50
M931-10050-82	M10-1.25 x 50*
M931-10055-60	M10-1.50 x 55
M931-10060-60	M10-1.50 x 60
M931-10065-60	M10-1.50 x 65
M931-10070-60	M10-1.50 x 70
M931-10080-60	M10-1.50 x 80
M931-10080-82	M10-1.25 x 80*
M931-10090-60	M10-1.50 x 90
M931-10090-82	M10-1.50 x 90*
M931-10100-60	M10-1.50 x 100
M931-10110-60	M10-1.50 x 110
M931-10120-60	M10-1.50 x 120
M931-10130-60	M10-1.50 x 130
M931-10140-60	M10-1.50 x 140
M931-10180-60	M10-1.50 x 180
M931-10235-60	M10-1.50 x 235
M931-10260-60	M10-1.50 x 260
M960-10330-60	M10-1.25 x 330

M931-12045-60	M12-1.75 x 45
M960-12050-60	M12-1.25 x 50
M960-12050-82	M12-1.25 x 50*
M931-12050-60	M12-1.75 x 50
M931-12050-82	M12-1.75 x 50*
M931-12055-60	M12-1.75 x 55
M931-12060-60	M12-1.75 x 60
M931-12060-82	M12-1.75 x 60*
M931-12065-60	M12-1.75 x 65
M931-12075-60	M12-1.75 x 75
M931-12080-60	M12-1.75 x 80
M931-12090-60	M12-1.75 x 90
M931-12100-60	M12-1.75 x 100
M931-12110-60	M12-1.75 x 110

Part No. Dimensions Hex Head Bolts (Partial Thread), continued

M960-16090-60	M16-1.50 x 90
M931-16090-60	M16-2.00 x 90
M931-16100-60	M16-2.00 x 100
M931-16100-82	M16-2.00 x 100*
M931-16120-60	M16-2.00 x 120
M931-16150-60	M16-2.00 x 150

M931-20065-60	M20-2.50 x 65
M931-20090-60	M20-2.50 x 90
M931-20100-60	M20-2.50 x 100
M931-20120-60	M20-2.50 x 120
M931-20140-60	M20-2.50 x 140
M931-20160-60	M20-2.50 x 160

M931-22090-60	M22-2.50 x 90
M931-22120-60	M22-2.50 x 120
M931-22160-60	M22-2.50 x 160

M931-24090-60	M24-3.00 x 90
M931-24120-60	M24-3.00 x 120
M931-24160-60	M24-3.00 x 160
M931-24200-60	M24-3.00 x 200

Hex Head Bolts (Full Thread)

M933-04006-60	M4-0.70 x 6
M933-05030-60	M5-0.80 x 30
M933-05035-60	M5-0.80 x 35
M933-05050-60	M5-0.80 x 50

M933-06010-60	M6-1.00 x 10
M933-06012-60	M6-1.00 x 12
M933-06014-60	M6-1.00 x 14
M933-06016-60	M6-1.00 x 16
M933-06020-60	M6-1.00 x 20
M933-06025-60	M6-1.00 x 25
M933-06030-60	M6-1.00 x 30
M933-06040-60	M6-1.00 x 40
M933-06050-60	M6-1.00 x 50

M933-07025-60	M7-1.00 x 25
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M933-08010-60	M8-1.25 x 10
M933-08012-60	M8-1.25 x 12
M933-08016-60	M8-1.25 x 16
M933-08020-60	M8-1.25 x 20
M933-08025-60	M8-1.25 x 25
M933-08030-60	M8-1.25 x 30
M933-08030-82	M8-1.25 x 30*

M933-10012-60	M10-1.50 x 12
M961-10020-60	M10-1.25 x 20
M933-10020-60	M10-1.50 x 20
M933-10025-60	M10-1.50 x 25
M961-10025-60	M10-1.25 x 25
M933-10025-82	M10-1.50 x 25*
M961-10030-60	M10-1.25 x 30
M933-10030-60	M10-1.50 x 30
M933-10030-82	M10-1.50 x 30*
M961-10035-60	M10-1.25 x 35
M933-10035-60	M10-1.50 x 35
M933-10035-82	M10-1.50 x 35*
M961-10040-60	M10-1.25 x 40

Part No. Dimensions Hex Head Bolts (Full Thread), continued

M933-12016-60	M12-1.75 x 16
M933-12020-60	M12-1.75 x 20
M961-12020-60F	M12-1.50 x 20
M933-12025-60	M12-1.75 x 25
M933-12025-82	M12-1.75 x 25*
M961-12030-60	M12-1.25 x 30
M933-12030-82	M12-1.75 x 30*
M961-12030-82F	M12-1.50 x 30*
M933-12030-60	M12-1.75 x 30
M933-12035-60	M12-1.75 x 35
M961-12040-82	M12-1.25 x 40*
M933-12040-60	M12-1.75 x 40
M933-12040-82	M12-1.75 x 40*

M961-14025-60	M14-1.50 x 25
M933-14025-60	M14-2.00 x 25
M961-14050-82	M14-1.50 x 50*

M961-16025-60	M16-1.50 x 25
M933-16025-60	M16-2.00 x 25
M961-16030-82	M16-1.50 x 30*
M933-16030-82	M16-2.00 x 30*
M933-16035-60	M16-2.00 x 35
M961-16040-60	M16-1.50 x 40
M933-16040-60	M16-2.00 x 40
M961-16045-82	M16-1.50 x 45*
M933-16045-82	M16-2.00 x 45*
M933-16050-60	M16-2.00 x 50
M933-16050-82	M16-2.00 x 50*
M933-16060-60	M16-2.00 x 60
M933-16070-60	M16-2.00 x 70

M933-18035-60	M18-2.50 x 35
M933-18050-60	M18-2.50 x 50
M933-18060-60	M18-2.50 x 60

M933-20050-60	M20-2.50 x 50
M933-20055-60	M20-2.50 x 55

M933-24060-60	M24-3.00 x 60
M933-24065-60	M24-3.00 x 65
M933-24070-60	M24-3.00 x 70

Pan Head Machine Screws

M7985A-03010-20	M3-0.50 x 10
M7985A-03012-20	M3-0.50 x 12

M7985A-04010-20	M4-0.70 x 10
M7985A-04016-20	M4-0.70 x 16
M7985A-04020-20	M4-0.70 x 20
M7985A-04050-20	M4-0.70 x 50
M7985A-04100-20	M4-0.70 x 100

M7985A-05010-20	M5-0.80 x 10
M7985A-05012-20	M5-0.80 x 12
M7985A-05016-20	M5-0.80 x 16
M7985A-05020-20	M5-0.80 x 20
M7985A-05025-20	M5-0.80 x 25
M7985A-05030-20	M5-0.80 x 30
M7985A-05080-20	M5-0.80 x 80
M7985A-05100-20	M5-0.80 x 100

M7985A-06100-20	M6-1.00 x 100
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Flat Head Machine Screws

M965A-04012-SS	M4-0.70 x 12
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M965A-05012-SS	M5-0.80 x 12
M965A-05016-20	M5-0.80 x 16
M965A-06012-20	M6-1.00 x 12

* This metric hex bolt's hardness is grade 10.9.

Metric, continued

Part No.	Dimensions	Type
Hex Nuts		
M934-03-50	M3-0.50	Standard
M934-04-50	M4-0.70	Standard
M934-04-B	M4-0.70	Brass
M934-05-50	M5-0.80	Standard
M934-06-60	M6-1.00	Standard
M934-06-64	M6-1.00	Std. (green)
M6923-06-80	M6-1.00	Spiralock
M982-06-80	M6-1.00	Elastic Stop
M934-08-60	M8-1.25	Standard
M6923-08-80	M8-1.25	Spiralock
M982-08-80	M8-1.25	Elastic Stop
M934-10-60	M10-1.50	Standard
M934-10-60F	M10-1.25	Standard
M6923-10-80	M10-1.50	Spiralock
M6923-10-62	M10-1.50	Spiralock†
M982-10-80	M10-1.50	Elastic Stop
M934-12-60	M12-1.75	Standard
M934-12-60F	M12-1.25	Standard
M6923-12-80	M12-1.75	Spiralock
M982-12-80	M12-1.75	Elastic Stop
M982-14-60	M14-2.00	Elastic Stop
M6923-16-80	M16-2.00	Spiralock
M982-16-80	M16-2.00	Elastic Stop
M934-18-80	M18-2.5	Standard
M982-18-60	M18-2.50	Elastic Stop
M934-20-80	M20-2.50	Standard
M982-20-80	M20-2.50	Elastic Stop
M934-22-60	M22-2.50	Standard
M934-24-80	M24-3.00	Standard
M982-24-60	M24-3.00	Elastic Stop
M934-30-80	M30-3.50	Standard

Washers

Part No.	ID	OD	Thick.	Bolt/ Screw
M125A-03-80	3.2	7.0	0.5	M3
M125A-04-80	4.3	9.0	0.8	M4
M125A-05-80	5.3	10.0	1.0	M5
M125A-06-80	6.4	12.0	1.6	M6
M125A-08-80	8.4	16.0	1.6	M8
M125A-10-80	10.5	20.0	2.0	M10
M125A-12-80	13.0	24.0	2.5	M12
M125A-14-80	15.0	28.0	2.5	M14
M125A-16-80	17.0	30.0	3.0	M16
M125A-18-80	19.0	34.0	3.0	M18
M125A-20-80	21.0	37.0	3.0	M20
M125A-24-80	25.0	44.0	4.0	M24

† This metric hex nut's hardness is grade 8.

TP-6962 3/15

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KOHLER® Power Systems

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