

Service Parts

Engine

Engine Models:

John Deere 4024TF281
4024HF285
4045HF275/285
4045TF270/280
5030HF285

Generator Models:

20-60REOZJC
50/60REOZJB
50/60REOZJD
50REOZJE
80/100REOZJC/D/E/F
125REOZJF/G

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Introduction

This manual lists service replacement parts for John Deere engines listed on the front cover.

At the time of print this manual applied to the engine models listed in the Specification Number Index. On occasion this manual may apply to engines not listed in the Specification Number 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 Specification Number 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. If 2 or more variation numbers are listed, note all variation numbers.
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(s) identified in the Specification Number 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.

Model Number Index, Engine Model 4024/5030

Group Title	Air Intake	Water Pump	Water Pump Pulley	Water Pump Inlet	Thermostat	Fan Belt	Fan Drive	Fan Pulley	Belt Tensioner	Vent Tube	Camshaft	Valve Train	Rocker Arm Cover	Fuel Injection System
Group No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Variation Number														
20/30REOZJC (Specification Numbers GM57153-GAxx)														
4024TF281	1703	2001	—	—	2201	2406	2301B	8603	8701	2999	4604	4907	1101B	1632
20/30REOZJC (Specification Numbers GM73381-GAxx)														
4024TF281	1703	2001	—	—	2201	2413	2304	8604	8701	2999	4604	4907	1101B	1632
40/50REOZJC (Specification Numbers GM57153-GAxx)														
4024HF285	—	2001	—	—	2201	2435	2309	8603	8701	2999	4618	4907	1109	1662
40/50REOZJC (Specification Numbers GM73381-GAxx)/50REOZJD														
4024HF285	—	2001	—	—	2201	2439	2311	8605	8701	2999	4618	4907	1109	1662
60REOZJC (Specification Numbers GM57153-GAxx)														
5030HF285	—	2001	—	—	2201	2439	2309	8603	8701	2999	4619	4908	1113	1646
60REOZJC (Specification Numbers GM73381-GAxx)/60REOZJD														
5030HF285	—	2001	—	—	2201	2439* or 2441*	2311	8605* or 8606*	8701	2999	4619	4908	1113	1646

* 5030HF285 engines (GM73389-) changed to a smaller pulley. Verify pulley diameter before ordering.

Group Title	Fuel Lines	Fuel Pump	Fuel Filter	Primary Fuel Filter	Crankshaft	Crankshaft Pulley	Piston & Connecting Rod	Flywheel	Flywheel Housing	Cylinder Head	Exhaust Manifold	Exhaust Elbow	Oil Filter	Dipstick
Group No.	15	16	17	17B	18	19	20	21	22	23	24	25	26	27
Variation Number														
20/30REOZJC														
4024TF281	—	3701	3505	—	4701	1301	4806	1508	1415‡	5101	2806	—	8801	4003
40/50REOZJC (Specification Numbers GM57153-GAxx)														
4024HF285	—	3712*	3540*	—	4703	1301	4814	1508	1401*	5105	2806	—	8801	4003
40/50REOZJC (Specification Numbers GM73381-GAxx)/50REOZJD														
4024HF285	—	3712	3540	—	4703	1303	4814	1508	1401	5105	2806	—	8801	4003
60REOZJC/60REOZJD														
5030HF285 (4P)	—	3712†	3543†	—	4704	1303	4815	1508	1401	5106	2807	—	8801	4003
5030HF285 (4V)	—	3712†	3543†	—	4704	1303	4815	1508	1406B	5106	2807	—	8801	4003

* 4024HF285 engines with serial number PE4024L003825 and before used Fuel Pump variation code 3709, Fuel Filter variation code 3535, and Flywheel Housing variation code 1415. Check the engine nameplate to verify the variation code.

† 5030HF285 engines with serial number PE5030L003800 and before used Fuel Pump variation code 3709 and Fuel Filter variation code 3538. Check the engine nameplate to verify the variation code.

‡ 4024TF281 engines with serial number PE4024R001060 through PE4024R001475 inclusive used Flywheel Housing variation code 1408 and Sensor variation code 6702. Check the engine nameplate to verify the variation code.

Model Number Index, Engine Model 4024/5030

Group Title	<i>Oil Pan</i>	<i>Oil Cooler</i>	<i>Oil Pump</i>	<i>Cylinder Block</i>	<i>Front Plate</i>	<i>Timing Gear Cover</i>	<i>Turbocharger & Oil Lines</i>	<i>Starter Motor</i>	<i>Alternator</i>	<i>Alternator Brackets</i>
Group No.	28	29	30	31	32	33	34	35	36	37
Variation Number										
20/30REOZJC										
4024TF281	1924	5903	5001	4604	—	4401	6526	3002	3102	6202
40/50REOZJC/50REOZJD										
4024HF285	1924	5903	5001	4618	—	4402	6571	3002	3102	6202
60REOZJC/60REOZJD										
5030HF285 (4P)	1902	5903	5001	4619	—	4402	6567	3002	3102	6202
5030HF285 (4V)	1902	5903	5001	4619	—	4402	6567	3002	3102	6202

Group Title	<i>Short Block</i>	<i>Cylinder Head Gasket Set</i>	<i>Overhaul Gasket Set</i>	<i>Engine Sensors</i>	<i>Wiring Harness</i>	<i>Engine Balancer Shafts</i>	<i>Starting Aid (Glow Plugs)</i>
Group No.	38	39	40	41	42	43	44
Variation Number							
20/30REOZJC							
4024TF281	3	—	3	6712‡	—	—	4301
40/50REOZJC/50REOZJD							
4024HF285	—	—	2	6711	—	—	4315
60REOZJC/60REOZJD							
5030HF285 (4P)	—	—	2	6711	—	—	4316
5030HF285 (4V)	—	—	2	6711	—	—	4316

‡ 4024TF281 engines with serial number PE4024R001060 through PE4024R001475 inclusive used Flywheel Housing variation code 1408 and Sensor variation code 6702. Check the engine nameplate to verify the variation code.

Model Number Index, Engine Model 4045

Group Title	Air Intake Water Pump Water Pump Pulley Water Pump Inlet Thermostat Fan Belt Fan Drive Fan Pulley Belt Tensioner Vent Tube Camshaft Valve Train Rocker Arm Cover Fuel Injection System													
Group No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Variation Number														
50/60 kW (50/60REOZJB)														
4045TF270, 12V	1701	4429A	2002A	5722	2112	240B	2314	8605	8711	2915	4616	4901	1101	164X
4045TF270, 24V	1701	4429A	2002A	5722	2112	240B	2314	8605	8711	2915	4616	4901	1101	164Y
50kW (50REOZJE)														
4045TF280, 12V*	17CT	4428	2002B	5722	2124	24HE	2314	8605	8701B	2915	4651	4901B	1101	16F8
4045TF280, 12V**	17CT	4428	2002B	5722	2124	24HE	2314	8605	8701B	2904	4651	4901B	1103	16F8
100 kW (100REOZJC)														
4045HF275, 12V	1783	4429B	2002A	5722	2102	2409	2301	8604	8702	2915	4614	4901	1101	163W
4045HF275, 24V	1783	4429B	2002A	5722	2102	2409	2301	8604	8702	2915	4614	4901	1101	163Y
80/100 kW Tier 3 (80/100REOZJD)														
4045HF285, 12V	1783	4446	2002B	5722	2156	24HA	2342	8605	8727	2997	4643	4901	1162	16A5
4045HF285, 24V	1783	4446	2002B	5722	2156	24HA	2342	8605	8727	2997	4643	4901	1162	16A5
80/100 kW Tier 3 (80/100REOZJE/REOZJF)														
4045HF285, 12V	1783	4446	2002B	5722	2156	24GY	2342	8604	8727	2997	4643	4901	1162	16A5
4045HF285, 24V	1783	4446	2002B	5722	2156	24GY	2342	8604	8727	2997	4643	4901	1162	16A5
125 kW Tier 3 (125REOZJF/REOZJG)														
4045HF285, 12V	1783	4433	2002B	5722	2156	24GG	2341	8610	8724	2997	4659	4901	1162	16A5
4045HF285, 24V	1783	4433	2002B	5722	2156	24GG	2341	8610	8724	2997	4659	4901	1162	16A5

* 4045TF280, 12V Right Side Service (engine number GM90762-1)

** 4045TF280, 12V Left Side Service (engine number GM90762-2)

Model Number Index, Engine Model 4045

Group Title		Fuel Lines	Fuel Pump	Fuel Filter	Primary Fuel Filter	Crankshaft	Crankshaft Pulley	Piston & Connecting Rod	Flywheel	Flywheel Housing	Cylinder Head	Exhaust Manifold	Exhaust Elbow	Oil Filter	Dipstick
Group No.	15	16	17	17B	18	19	20	21	22	23	24	25	26	27	
Variation Number															
50/60 kW (50/60REOZJB)															
4045TF270, 12V	—	3702	3563	—	4715	1328	4823	1509	1406	5102	2803	6401	8842	4002	
4045TF270, 24V	—	3702	3563	—	4715	1328	4823	1509	1406	5102	2803	6401	8842	4002	
50kW (50REOZJE)															
4045TF280, 12V*	—	3702	35EU	—	4715	1328	4843	1509	1406	5127	2802	—	8842	4002	
4045TF280, 12V**	—	3702	35EV	—	4715	1328	4843	1509	1404	5127	2802	—	8854	4014	
80kW (80REOZJC)															
4045HF275, 12V	6313	3702	35BV	—	4715	1327	4822	1503	1406	5102	2803	6401	8842	4002	
4045HF275, 24V	6313	3702	35BV	—	4715	1327	4822	1503	1406	5102	2803	6401	8842	4002	
100 kW (100REOZJC)															
4045HF275, 12V	6366	3702	35BV	—	4715	1327	4822	1503	1406	5102	2803	6401	8842	4002	
4045HF275, 24V	6366	3702	35BV	—	4715	1327	4822	1503	1406	5102	2803	6401	8842	4002	
80/100 kW Tier 3 (80/100REOZJD)															
4045HF285, 12V	6386	3713	35ED	8170	4715	1328	4838	1503	1406	5122	2888	6438	8842	4002	
4045HF285, 24V	6386	3713	35ED	8170	4715	1328	4838	1503	1406	5122	2888	6438	8842	4002	
80/100 kW Tier 3 (80/100REOZJE/REOZJF)															
4045HF285, 12V	6386	3713	35ED	8170	4715	1328	4838	1503	1406	5122	2888	6499	8842	4002	
4045HF285, 24V	6386	3713	35ED	8170	4715	1328	4838	1503	1406	5122	2888	6499	8842	4002	
125 kW Tier 3 (125REOZJF/REOZJG)															
4045HF285, 12V	6386	3713	35ED	8170	4715	1328	4847	1503	1406	5130	2888	6499	8842	4002	
4045HF285, 24V	6386	3713	35ED	8170	4715	1328	4847	1503	1406	5130	2888	6499	8842	4002	

* 4045TF280, 12V Right Side Service (engine number GM90762-1)

** 4045TF280, 12V Left Side Service (engine number GM90762-2)

Model Number Index, Engine Model 4045

Group Title										
	<i>Oil Pan</i>	<i>Oil Cooler</i>	<i>Oil Pump</i>	<i>Cylinder Block</i>	<i>Front Plate</i>	<i>Timing Gear Cover</i>	<i>Turbocharger & Oil Lines</i>	<i>Starter Motor</i>	<i>Alternator</i>	<i>Alternator Brackets</i>
Group No.	28	29	30	31	32	33	34	35	36	37
Variation Number										
50/60 kW (50/60REOZJB)										
4045TF270, 12V	1904	5901	5001	4616	3618	4429	65HE	3006	3122	6211
4045TF270, 24V	1904	5901	5001	4616	3618	4429	65HE	3041	3104	6212
50kW (50REOZJE)										
4045TF280, 12V*	19AE	—	5001	4651	3602	4428	65SN	3012	3109	6203
4045TF280, 12V**	19AE	—	5001	4651	3602	4428	65SN	3005	3109	6203
80kW (80REOZJC)										
4045HF275, 12V	1904	5901	5002	4616	3618	4429	65HE	3006	3138	6201
4045HF275, 24V	1904	5901	5002	4616	3618	4429	65HE	3041	3142	6201
100 kW (100REOZJC)										
4045HF275, 12V	1904	5901	5002	4614	3618	4429	65HE	3006	3138	6201
4045HF275, 24V	1904	5901	5002	4614	3618	4429	65HE	3041	3142	6201
80/100 kW Tier 3 (80/100REOZJD)										
4045HF285, 12V	19AE	5902	5001	4643	3612	4446	65RQ	3012	3138	6201
4045HF285, 24V	19AE	5902	5001	4643	3612	4446	65RQ	3041	3142	6201
80/100 kW Tier 3 (80/100REOZJE/REOZJF)										
4045HF285, 12V	19AE	5902	5001	4643	3612	4446	65RQ	3012	3138	6201
4045HF285, 24V	19AE	5902	5001	4643	3612	4446	65RQ	3041	3142	6201
125 kW Tier 3 (125REOZJF/REOZJG)										
4045HF285, 12V	19AE	5902	5001	4659	3612	4433	65RQ	3012	3138	6278
4045HF285, 24V	19AE	5902	5001	4659	3612	4433	65RQ	3041	3142	6278

* 4045TF280, 12V Right Side Service (engine number GM90762-1)

** 4045TF280, 12V Left Side Service (engine number GM90762-2)

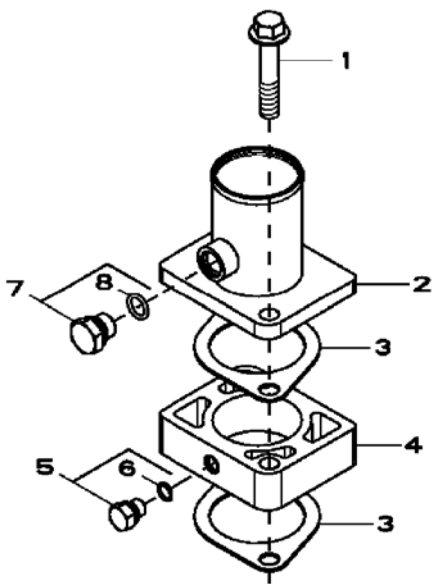
Model Number Index, Engine Model 4045

Group Title	Short Block Cylinder Head Gasket Set Overhaul Gasket Set Engine Sensors Wiring Harness Engine Balancer Shafts Aux. Drive Cover Oil Filler							
Group No.	38	39	40	41	42	43	45	46
Variation Number								
50/60 kW (50/60REOZJB)								
4045TF270, 12V	1	1	1	—	—	—	—	—
4045TF270, 24V	1	1	1	—	—	—	—	—
50kW (50REOZJE)								
4045TF280, 12V*	6	3	5	—	—	—	5204	—
4045TF280, 12V**	6	3	5	—	—	—	5204	1210
80kW (80REOZJC)								
4045HF275, 12V	2	1	1	7635	8407	—	—	—
4045HF275, 24V	2	1	1	7635	8407	—	—	—
100 kW (100REOZJC)								
4045HF275, 12V	2	1	1	7635	8407	—	—	—
4045HF275, 24V	2	1	1	7635	8407	—	—	—
80/100 kW Tier 3 (80/100REOZJD)								
4045HF285, 12V	4	2	4	6730	8457	4501	—	—
4045HF285, 24V	4	2	4	6730	8457	4501	—	—
80/100 kW Tier 3 (80/100REOZJE/REOZJF)								
4045HF285, 12V	4	2	4	6730	8457	4501	—	—
4045HF285, 24V	4	2	4	6730	8457	4501	—	—
125 kW Tier 3 (125REOZJF/REOZJG)								
4045HF285, 12V	5	2	4	6730	8457	4501	—	—
4045HF285, 24V	5	2	4	6730	8457	4501	—	—

* 4045TF280, 12V Right Side Service (engine number GM90762-1)

** 4045TF280, 12V Left Side Service (engine number GM90762-2)

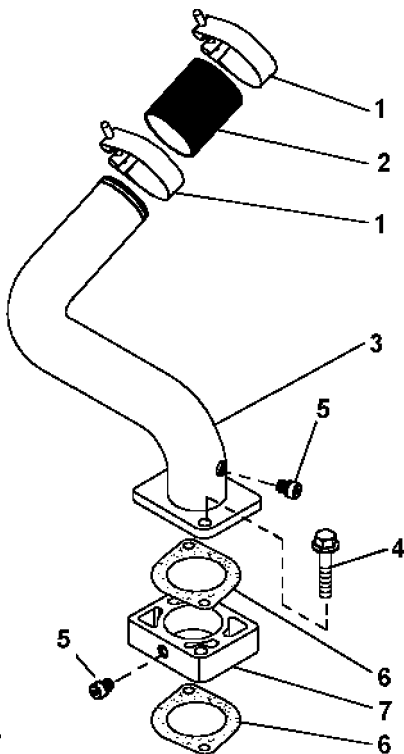
Group 1: Air Intake



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Item	Part Number	Description	Quantity
			Variation 1783
1	#	Screw	2
2	GM24517	Manifold, intake	1
3	223532	Gasket	1
4	GM17483	Spacer	1
5	GM24516	Fitting	1
6	#	O-ring, 8.1 x 1.6 mm	1
7	360013	Plug	1
8	GM21508	O-ring, 11.3 x 2.2 mm	1

Common hardware; procure locally.

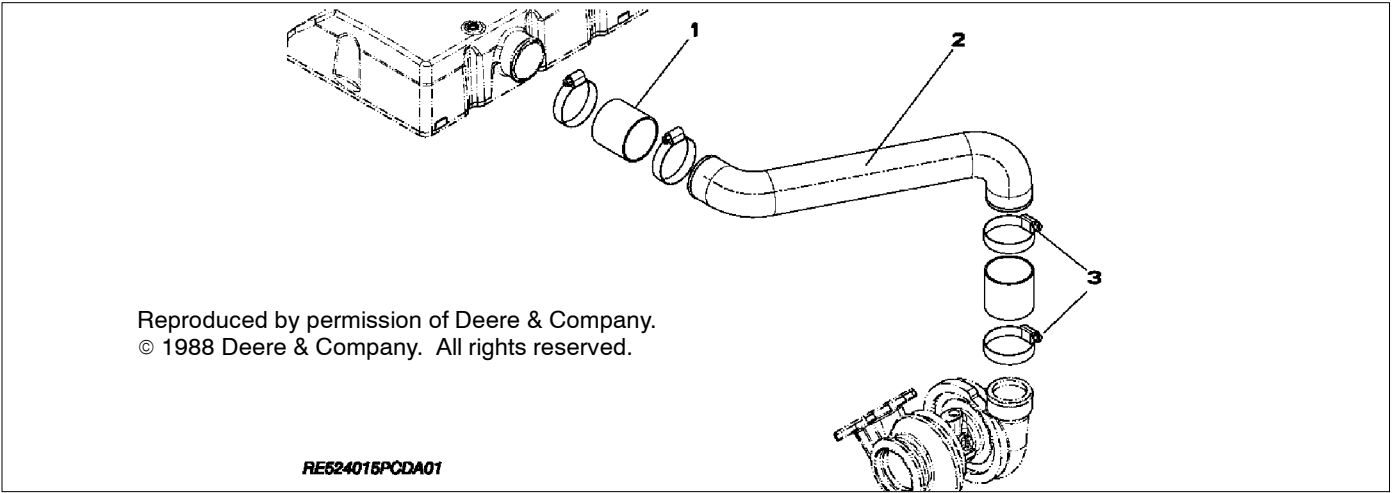


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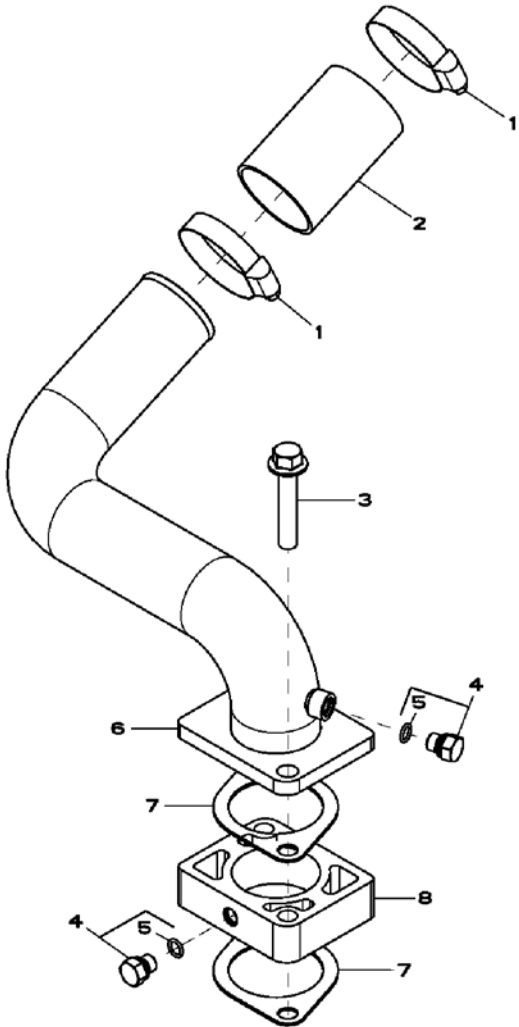
Item	Part Number	Description	Quantity
			Variation 1701
1	GM18669	Clamp	2
2	GM32781	Hose	1
3	GM32826	Air intake	1
4	#	Screw, M10 x 50	2
5	GM24516	Fitting (includes O-ring)	2
6	223532	Gasket	2
7	GM17483	Spacer	1

Group 1: Air Intake, continued



Item	Part Number	Description	Quantity
			Variation 1703
1	GM63756	Hose, 49 mm	2
2	GM63769	Tube	1
3	GM18882	Clamp	4

Group 1: Air Intake, continued

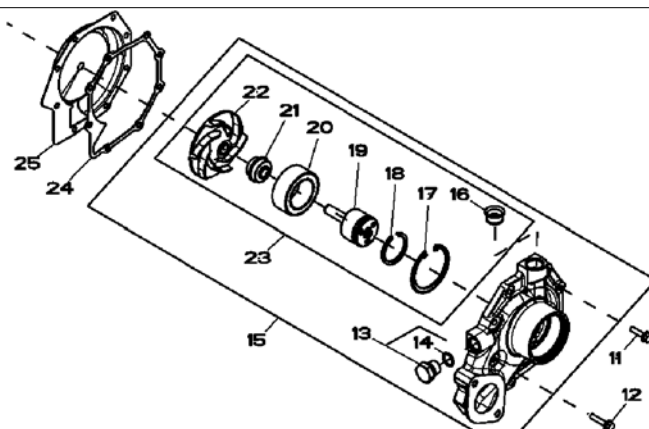


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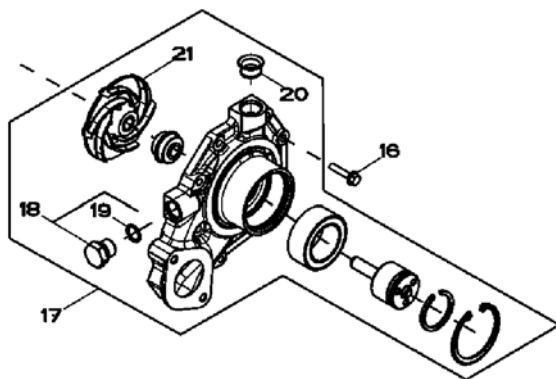
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Item	Part Number	Description	Quantity
			Variation 17CT
1	336706	Clamp, Hose	2
2	GM32781	Hose	1
3	#	Screw, M10 X 55	2
4	GM24516	Fitting	2
5	GM32896	O-ring	1
6	GM91807	Air Intake	1
7	223532	Gasket	2
8	GM17483	Spacer	1

Group 2: Water Pump



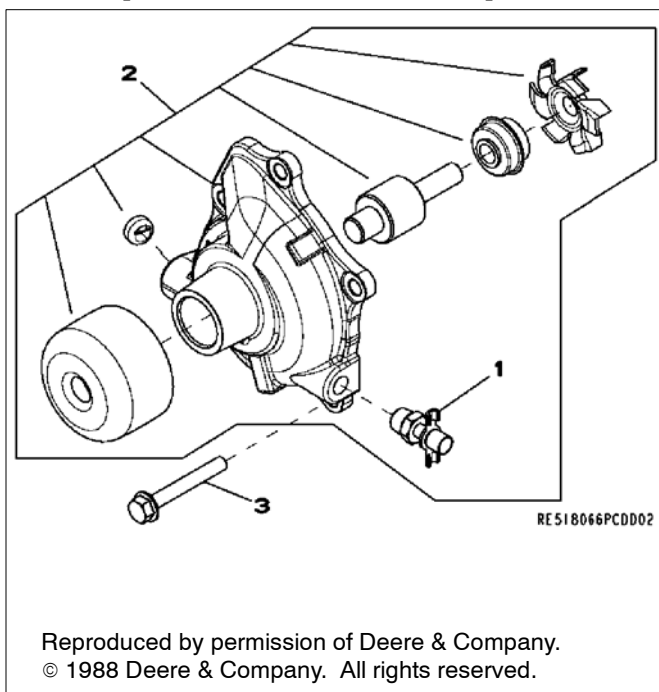
Item	Part Number	Description	Quantity			
			Variation			
			4429A	4429B	4433	4446
11	#	Screw, M6 x 25	5	5	5	5
12	#	Screw, M6 x 30	3	3	3	3
13	360014	Plug	2	1	1	1
14	360176	O-ring	1	1	1	1
15	GM29383	Pump, water	1			
15	GM29382	Pump, water (also order items 16 and 24)		1	1	1
16	360116	Gasket	1	1	1	1
17	X	Ring	1	1	1	1
18	360003	Ring, snap	1	1	1	1
19	X	Shaft	1	1	1	1
20	X	Ball bearing	1	1	1	1
21	X	Seal	1	1	1	1
22	X	Impeller	1	1	1	1
23	GM32829	Water pump kit (includes items 13, 14, 16-22, 25)	1			
23	GM17551	Water pump seal kit (includes items 13, 14, 16-22, 25)		1		
23	GM32944	Water pump kit (includes items 16-22)			1	1
24	360124	Gasket, water pump	1	1	1	1
25	GM17443	Filter (not shown)	2	2		



Item	Part Number	Description	Quantity
			Variation 4428
16	#	Screw, M6 X 30	8
17	GM29383	Pump, water	1
18	360014	Plug	1
19	360176	O-Ring	1
20	-	Impeller	1
21	360116	Gasket, water bypass tube	1

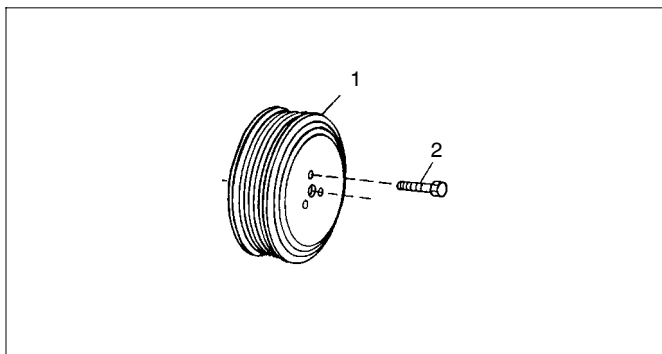
Common hardware; procure locally.
X Not sold separately.

Group 2: Water Pump, continued



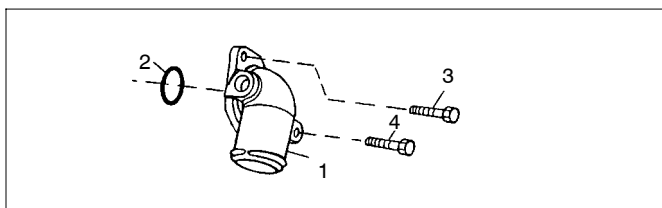
Item	Part Number	Description	Quantity	
			Variation	
			2001	
1	223435	Drain valve	1	
2	GM63808	Water pump	1	
3	GM63706	Screw, M8 x 60	5	
—	GM63859	Sealant	1	

Group 3: Water Pump Pulley



Item	Part Number	Description	Quantity	
			Variation	
			2002A	2002B
1	360085	Pulley, water pump	1	
1	360559	Pulley		1
2	#	Screw, M6 x 12	3	3

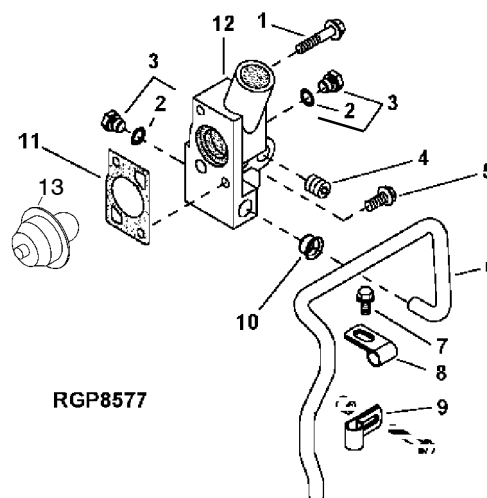
Group 4: Water Pump Inlet



Item	Part Number	Description	Quantity	
			Variation	
			5722	
1	GM32792	Housing	1	
	360014	Plug (includes O-ring 360176)	1	
2	224172	O-ring	1	
3	#	Screw, M8 x 25	1	
4	#	Screw, M8 x 65	1	

Common hardware; procure locally.

Group 5: Thermostat

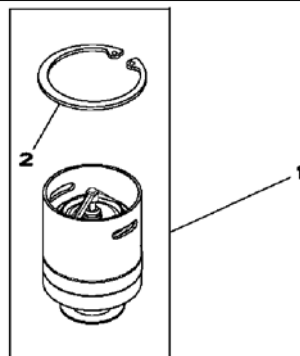


RGP8577

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Item	Part Number	Description	Quantity		
			Variation		
			2102	2112	2156
1	#	Screw, M10 x 70	1	1	
1	#	Screw, M10 x 50			1
2	GM21508	O-ring	2	2	2
3	360013	Plug	2	2	2
4	GM15403	Plug, pipe	3	3	
5	#	Screw, M10 x 30	1	1	1
6	360142	Tube	1		
6	GM23839	Tube		1	
6	GM49898	Tube			1
7	#	Screw, M12 x 25	1	1	
8	360120	Clamp	1	1	
9	360121	Clamp	1	1	1
10	360116	Gasket, water bypass tube	1	1	1
11	360484	Gasket	1	1	1
12	GM32786	Cover, thermostat	1	1	
12	GM49827	Cover, thermostat			1
13	GM32812	Thermostat	1	1	1

Common hardware; procure locally.

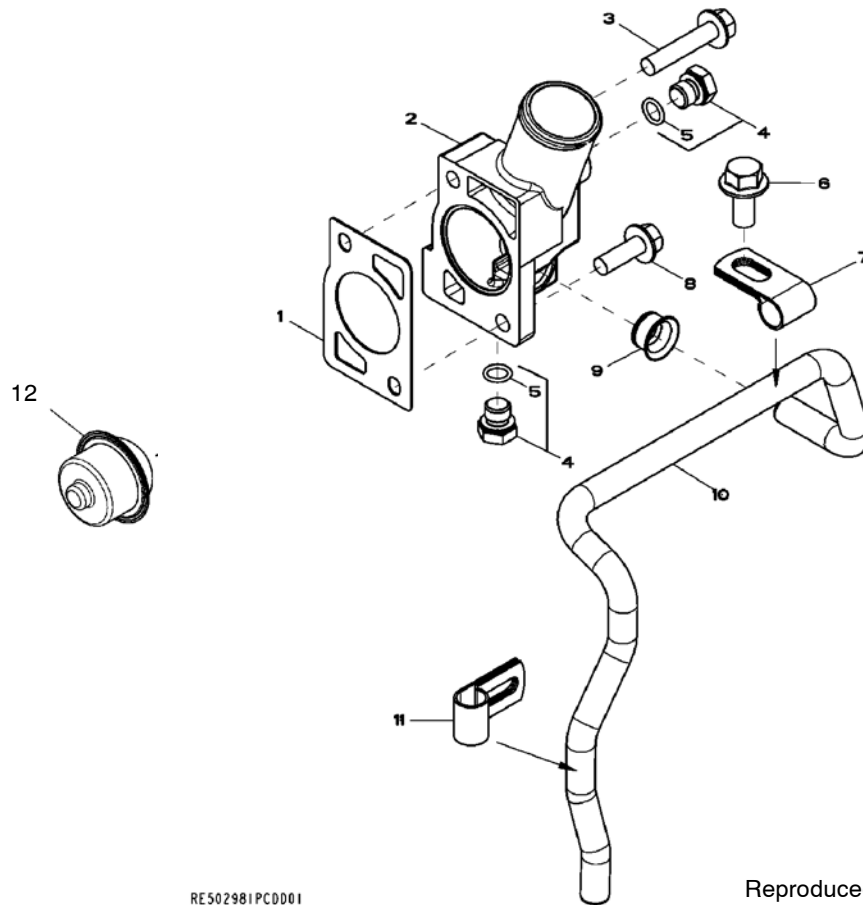


RE509124PCD603

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Item	Part Number	Description	Quantity
			Variation 2201
1	GM63866	Thermostat kit	1
2	GM63780	Snap ring	1

Group 5: Thermostat, continued

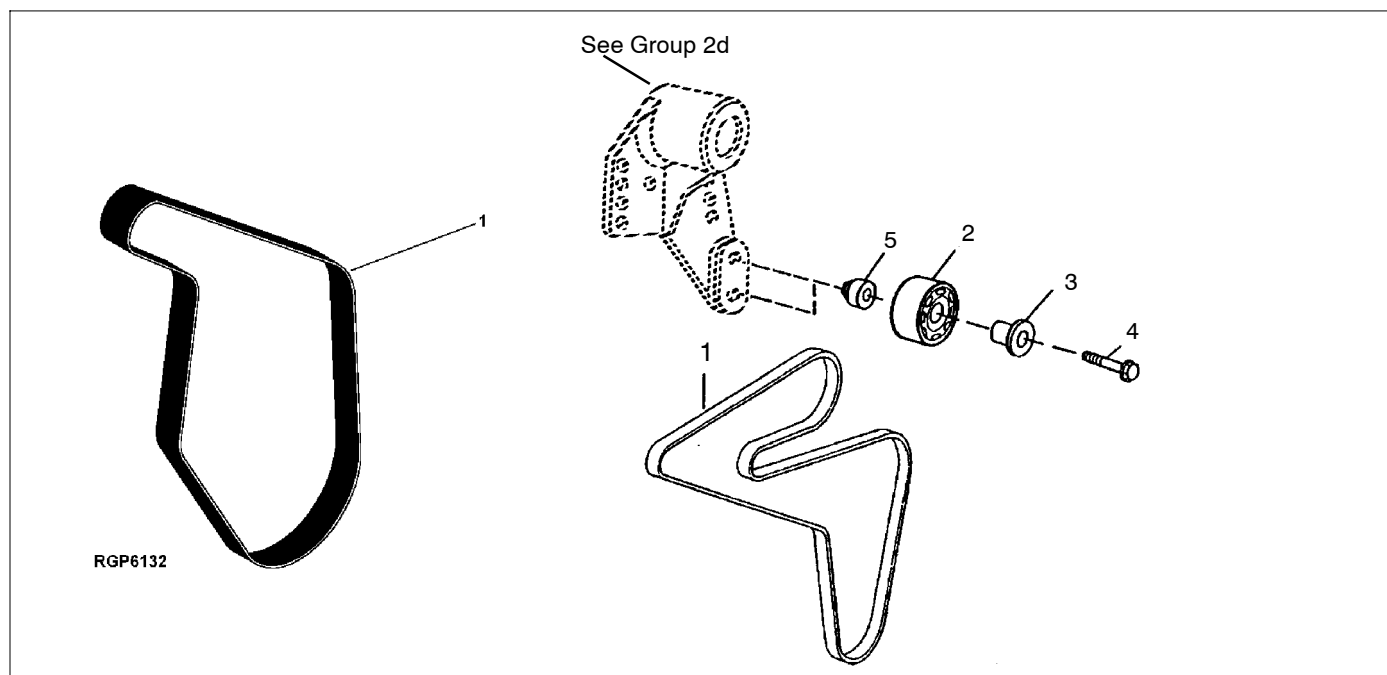


RE502981PCD001

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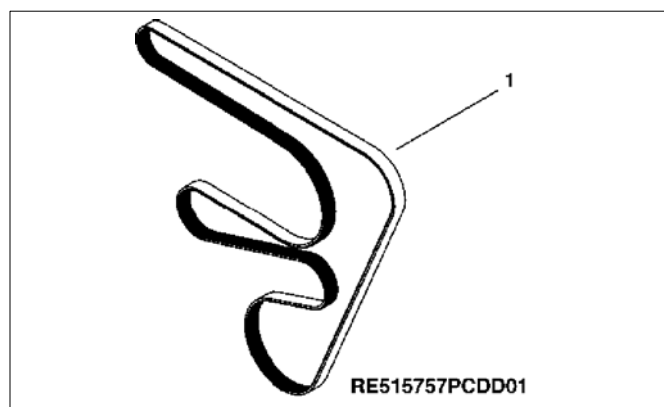
Item	Part Number	Description	Quantity
			Variation 2124
1	GM21406	Gasket	1
2	GM91808	Cover	1
3	#	Screw, M10 X 50	1
4	360013	Plug	3
5	GM21508	O-ring	1
6	#	Screw, M12 X 25	1
7	360120	Clamp	1
8	#	Screw, M10 x 30	1
9	360116	Gasket	1
10	GM91809	Tube	1
11	360121	CLamp	1
12	GM32812	Thermostat	1

Group 6: Fan Belt



Item	Part Number	Description	Quantity					
			Variation					
			2409	240B	24HA	24GG	24GY	24HE
1	GM23828	V-belt, 1575 mm (8 rib)	1					
1	GM28308	V-belt, 1515 mm (8 rib)		1				
1	GM52514	V-belt, 1550 mm			1			
1	352793	V-belt, 1700 mm				1		
1	GM77161	V-belt, 1545 mm					1	
1	GM91810	V-belt						1
2	GM17529	Pulley	1		1		1	1
3	GM17488	Sleeve	1		1		1	1
4	#	Screw, M10 x 65	1		1		1	1
5	GM23835	Spacer	1		1		1	1

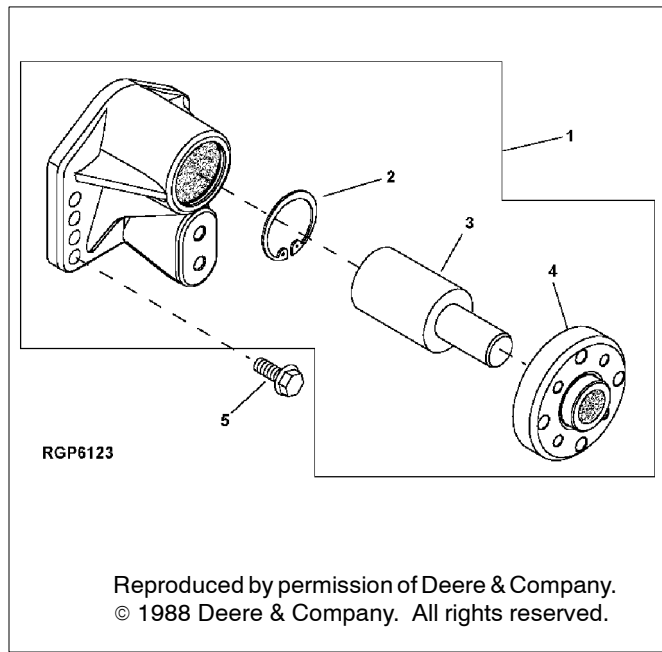
Common hardware; procure locally.



Item	Part Number	Description	Quantity					
			Variation					
			2406	2413	2415	2435	2439*	2441*
1	GM63750	V-belt	1					
1	GM77162	V-belt		1				
1	GM63761	V-belt			1			
1	GM71811	V-belt				1		
1	GM74072	V-belt*					1	
1	GM87022	V-belt*						1

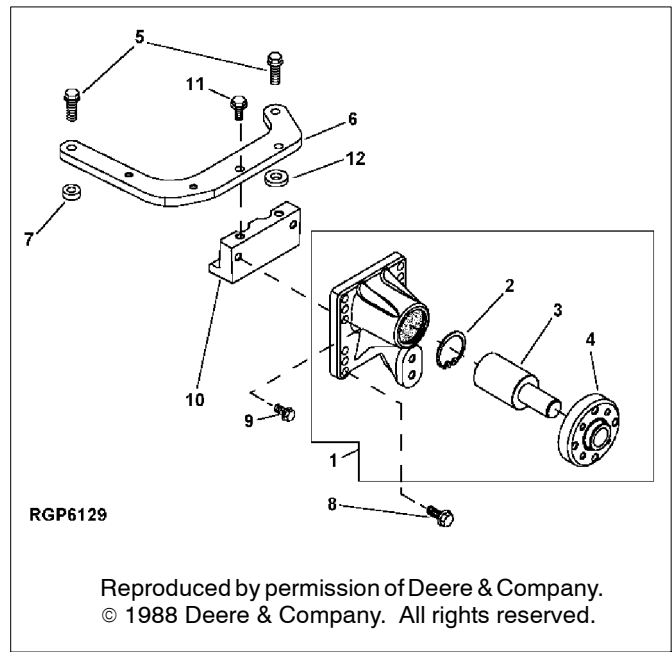
* 5030HF285 engines (GM73389-) changed to a smaller pulley. Verify pulley diameter before ordering pulley or belt.
See Group 8 for pulley dimensions.

Group 7: Fan Drive



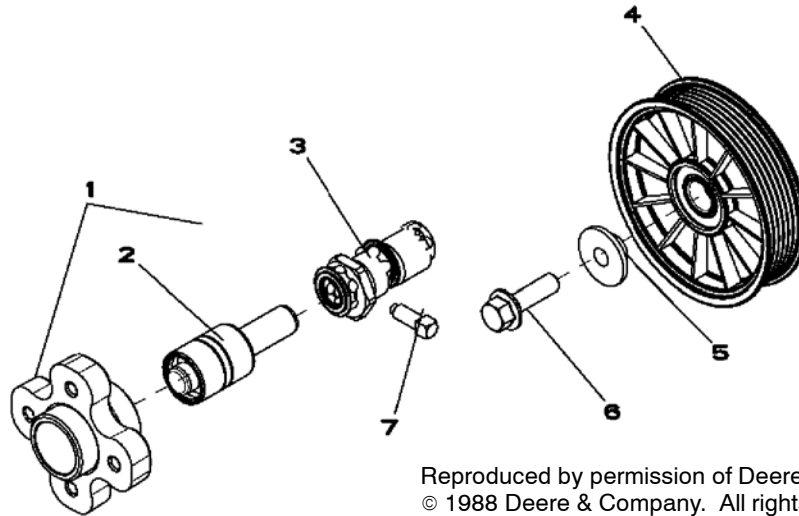
Item	Part Number	Description	Quantity
			Variation 2301
1	360030	Housing, bearing w/ bearing	1
2	360005	Ring, snap	1
3	X	Bearing (order item 1)	1
4	X	Hub (order item 1)	1
5	#	Screw, M10 x 35	4

Common hardware; procure locally.
X Not sold separately.



Item	Part Number	Description	Quantity		
			Variation		
			2314	2341	2342
1	GM23844	Support	1	1	1
2	223730	Ring, snap	1	1	1
3	X	Shaft	1	1	1
4	X	Hub	1	1	1
5	#	Screw, M12 x 35	2		
6	GM23831	Bracket	1		
6	GM46599	Bracket		1	
7	GM23826	Washer	1		
8	#	Screw, M10 x 35	4		
8	#	Screw, M10 x 30		4	4
9	#	Screw, M10 x 20	2		
10	GM23830	Spacer	1		
11	#	Screw, M10 x 30	2		
11	#	Screw, M10 x 25		2	
12	GM23855	Washer	1		

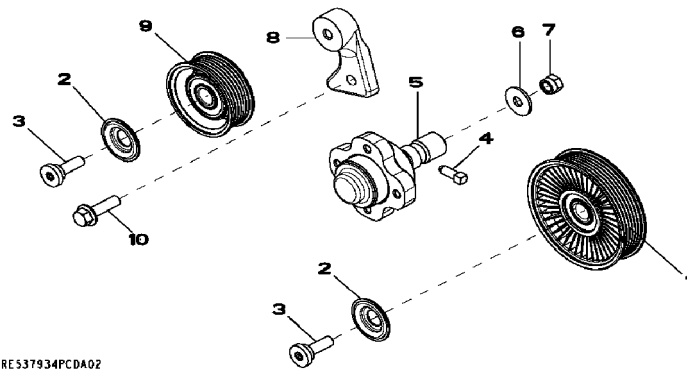
Group 7: Fan Drive, continued



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RE 509685PCD601

Item	Part Number	Description	Quantity	
			Variation	
			2301B	2304
1	GM63804	Hub	1	
1	GM71634	Hub		1
2	GM63766	Ball bearing	1	
2	-	Ball bearing		1
3	GM63758	Tube nut	1	
3	-	Tube nut		1
4	GM63867	Idler	1	1
5	GM63730	Sleeve	1	1
6	GM63708	Screw	1	1
6	GM63708	Screw, M10 x 35	1	1
7	GM71633	Set screw	1	1



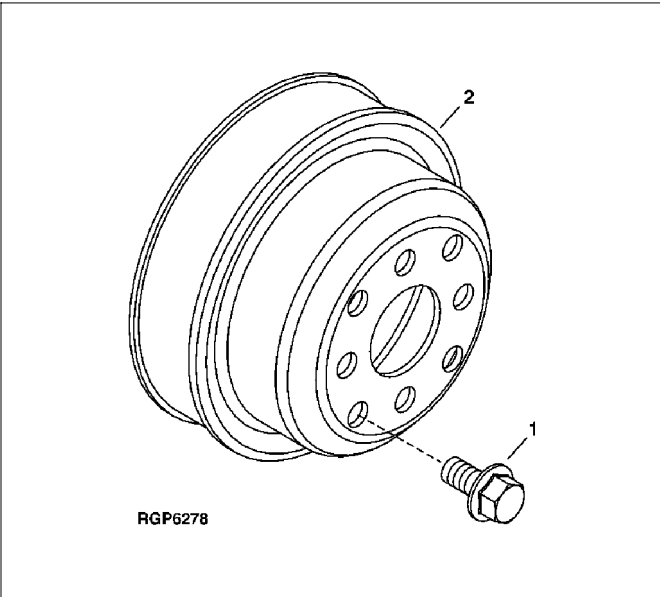
RE 537934PCDA02

See Group 29 for idler pulley bracket

4024HF285

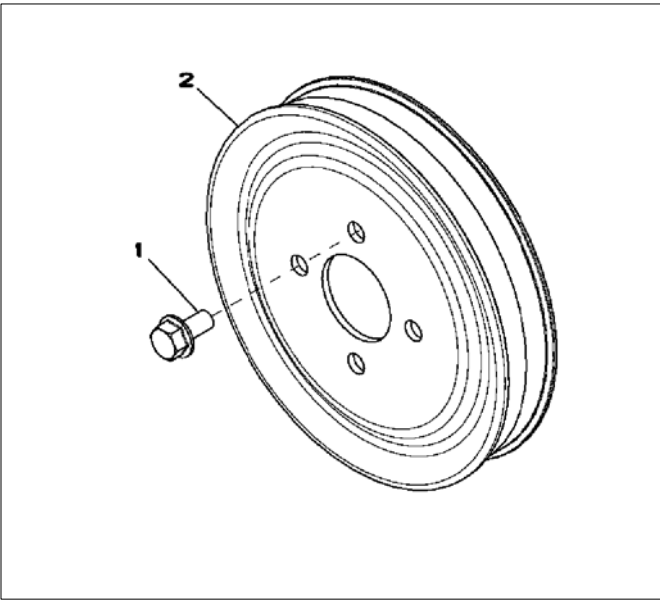
Item	Part Number	Description	Quantity	
			Variation	
			2309	2311
1	GM63867	Idler	1	1
2	GM63730	Dust shield	2	2
3	GM74075	Socket head screw	2	2
4	GM71633	Set screw	1	1
5	GM63804	Hub	1	
5	GM71634	Hub		1
6	GM71635	Washer		1
7	GM71636	Lock nut		1
7	GM63758	Tube nut	1	
8	GM74076	Bracket	1	1
9	GM74077	Idler	1	1
10	GM74078	Screw	1	1

Group 8: Fan Pulley



Engine Model 4045

Item	Part Number	Description	Quantity		
			Variation		
			8604	8605	8610
1	GM32765	Screw	4	4	4
2	360578	Pulley, fan	1		1
2	360143	Pulley, fan		1	

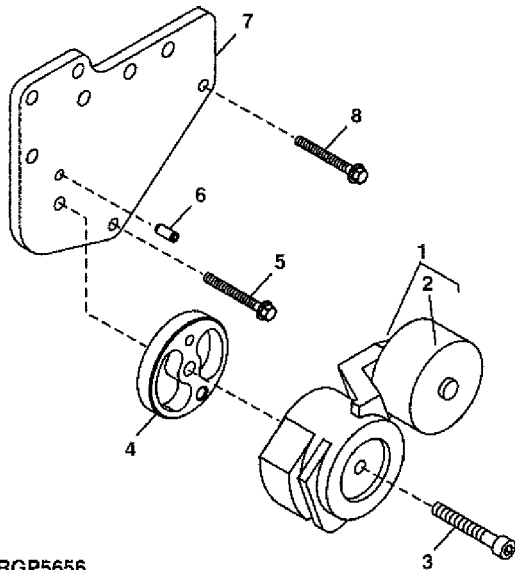


Engine Model 4024/5030

Item	Part Number	Description	Quantity			
			Variation			
			8603	8604	8605*	8606*
1	#	Screw	4	4	4	4
2	GM63744	Pulley	1			
2	GM77163	Pulley (145.94 mm)		1		
2	GM71637	Pulley (160 mm diameter*)			1	
2	GM87021	Pulley (127 mm diameter, use belt code 2441*)				1

* 5030HF285 engines (GM73389-) changed to a smaller pulley.
Verify pulley diameter before ordering pulley or belt.

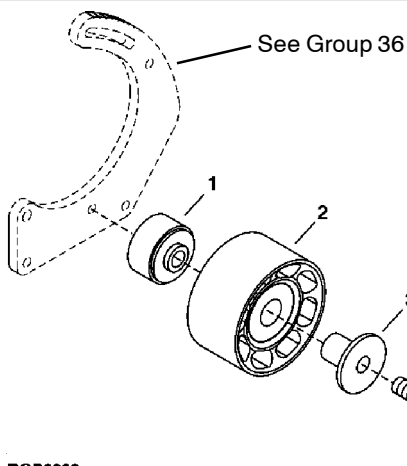
Group 9: Belt Tensioner



RGP5656

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Item	Part Number	Description	Quantity Variation			
			8702	8724	8727	8701B
1	GM49938	Tensioner	1	1	1	1
2	X	Bolt	1	1	1	
3	#	Screw, M10 x 90	1	1	1	1
4	#	Washer, 10 X 18 X 2.500 mm (not shown)				1
4	GM49836	Spacer	1	1	1	
4	GM88681	Spacer				1
5	#	Screw, M8 x 60 mm	1	1	1	
6	GM46601	Pin, spring	1	1	1	
7	GM24521	Support	1			
7	GM49896	Support		1		
7	GM52515	Support			1	
8	#	Screw, M8 x 60 mm	1	1	1	



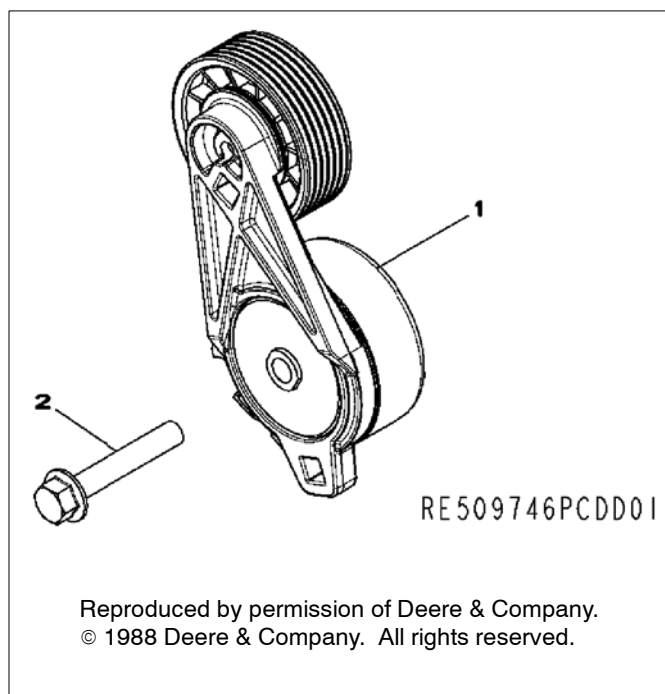
RGP6282

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Item	Part Number	Description	Quantity Variation
			8711
1	GM23835	Spacer	1
2	GM17529	Pulley	1
3	GM17488	Sleeve	1
4	#	Screw, M10 x 60	1

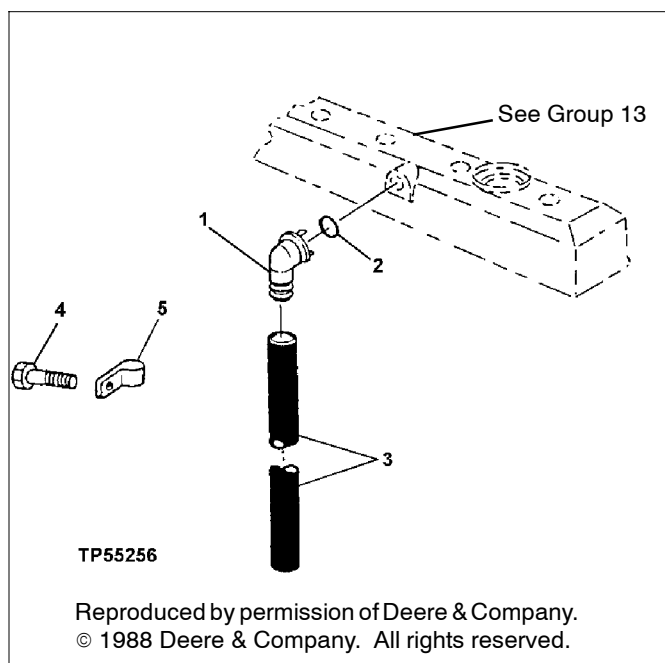
Common hardware; procure locally.
X Not sold separately.

Group 9: Belt Tensioner, continued



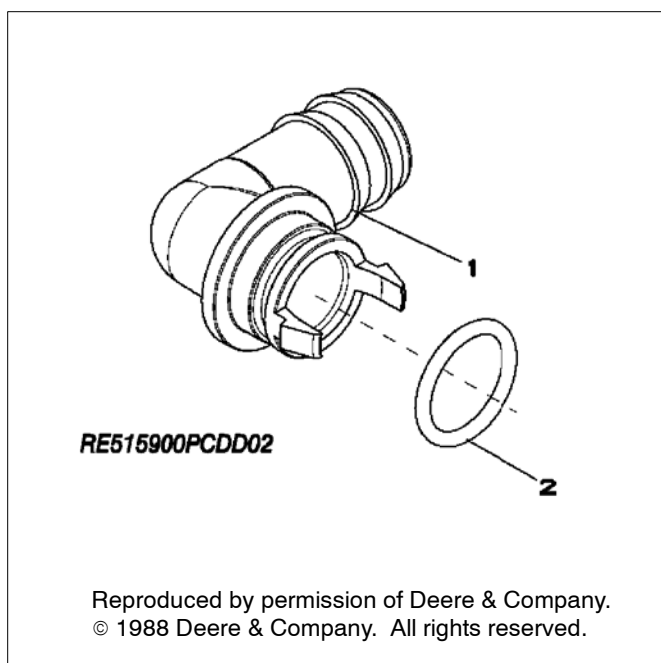
Item	Part Number	Description	Quantity
			Variation 8701
1	GM63812	Belt tensioner	1
2	#	Screw, M10 x 60	1

Group 10: Vent Tube



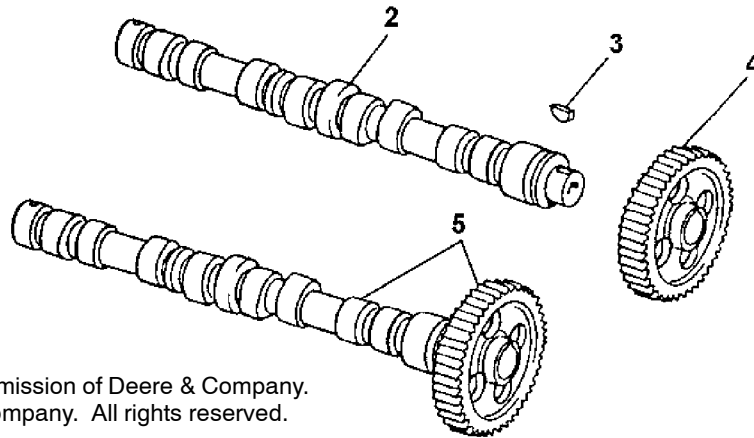
Item	Part Number	Description	Quantity		
			Variation 2904	Variation 2915	Variation 2997
1	360098	Fitting, elbow	1	1	1
2	223851	O-ring	1	1	1
3	GM17459	Hose		1	
3	GM91811	Hose	1		
4	#	Screw, M8	1	1	
5	360530	Clamp	1	1	

Common hardware; procure locally.



Item	Part Number	Description	Quantity
			Variation 2999
1	360098	Fitting, elbow	1
2	223851	O-ring	1

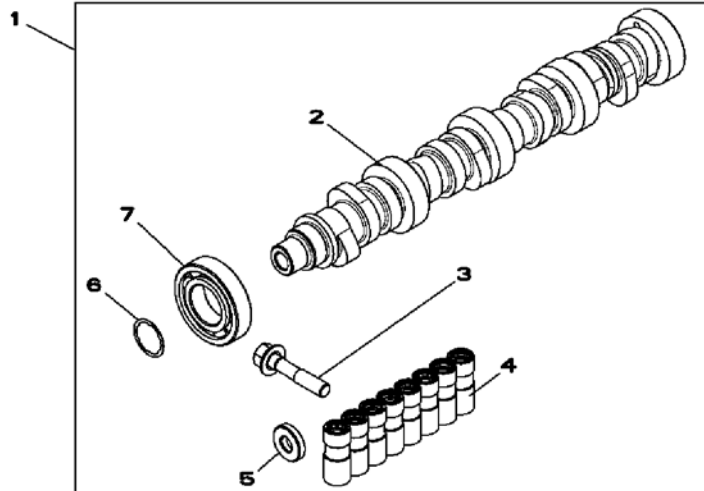
Group 11: Camshaft



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Item	Part Number	Description	Quantity				
			4614	4616	Variation 4659	4643	4651
2	X	Camshaft (order item 5)	1	1			
3	360158	Key, shaft	1	1			
4	X	Gear (order item 5)	1	1			
5	GM32813	Camshaft	1	1	1		
5	GM52516	Camshaft				1	
5	GM91812	Camshaft					1

X Not sold separately.

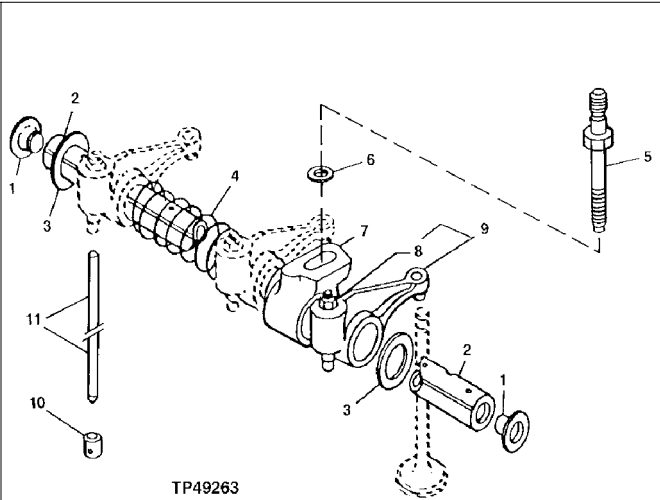


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RE535921RGP01

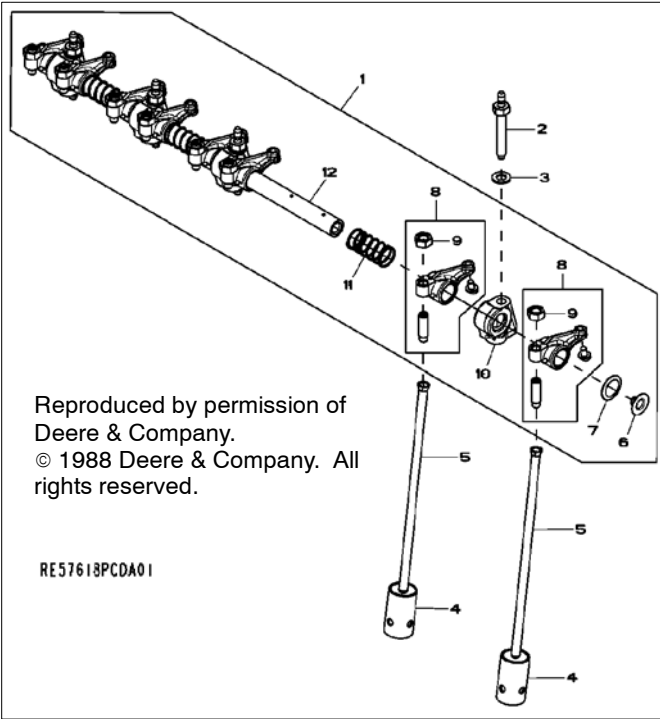
Item	Part Number	Description	Quantity		
			4604	Variation 4618	4619
1	GM63858	Cam kit	1	1	
1	GM63911	Cam kit		1	
1	GM63907	Cam kit			1
2	—	Camshaft	1	1	1
3	GM63752	Screw	1	1	1
4	GM63833	Follower	8	8	10
5	GM63748	Washer	1	1	1
6	GM63728	Shim	1	1	1
7	GM63821	Ball bearing	1	1	1

Group 12: Valve Train



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Item	Part Number	Description	Quantity
			Variation 4901A
1	223480	Plug	2
2	360509	Shaft, rocker arm	1
3	223634	Washer	2
4	223632	Spring	3
5	360118	Stud	4
6	223756	Washer, 11 x 20 x 2 mm	4
7	360112	Support	4
8	#	Nut, M10	1
9	360072	Arm, rocker	8
10	360135	Tappet	8
11	352026	Rod, push	8



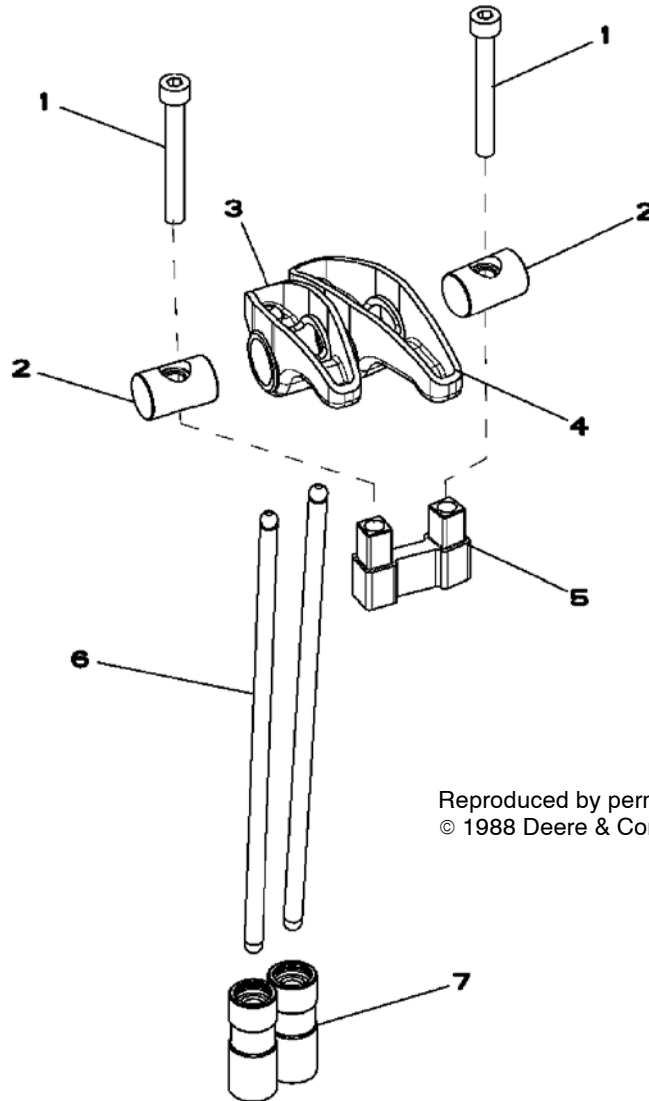
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RE57618PCDA01

Item	Part Number	Description	Quantity
			Variation 4901B
1	223481	Shaft	1
2	360118	Stud	4
3	#	Washer, 11 x 20 x 2 mm	6
4	360135	Tappet	8
5	352026	Rod, push	8
6	223480	Plug	2
7	223634	Washer	2
8	GM50611	Arm, rocker	8
9	#	Nut, M10	1
10	360112	Support	6
11	223632	Spring	5
12	360509	Shaft, rocker arm	1

Common hardware; procure locally.

Group 12: Valve Train, continued



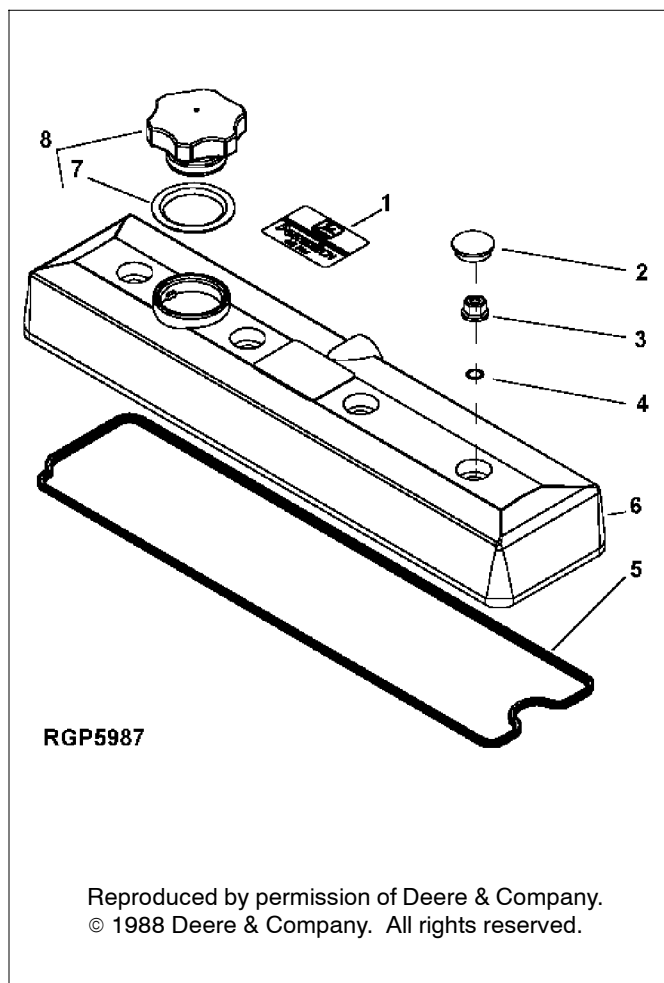
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RE51881PCDE01

Item	Part Number	Description	Quantity	
			Variation	
			4907	4908
1	#	Screw, M6 x 65	8	10
2	GM63753	Rocker arm shaft	8	10
3	GM63823	Rocker arm (intake valve)	4	5
4	GM63824	Rocker arm (exhaust valve)	4	5
5	GM63777	Pedestal	4	5
6	GM63820	Push rod	8	10
7	GM63833	Follower	8	10

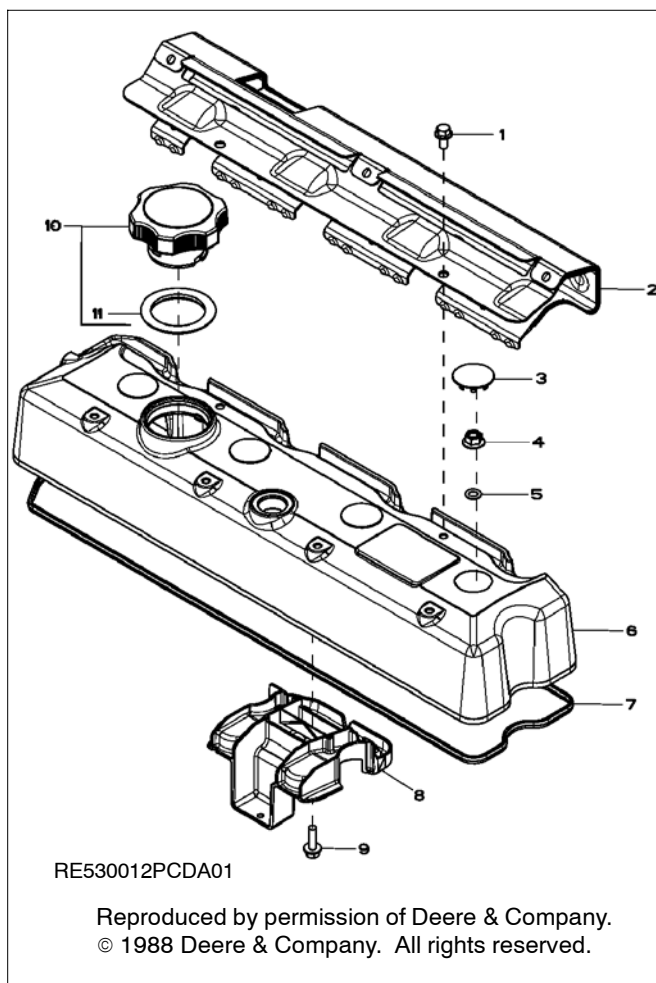
Common hardware; procure locally.

Group 13: Rocker Arm Cover



Item	Part Number	Description	Quantity Variation 1101
1	X	Medallion	1
2	360004	Plug	6
3	360138	Nut	6
4	360139	O-ring	6
5	360585	Gasket, rocker arm cover	1
6	360507	Cover, rocker arm	1
7	GM17493	Packing	1
8	360018	Cap, oil fill (includes packing)	1

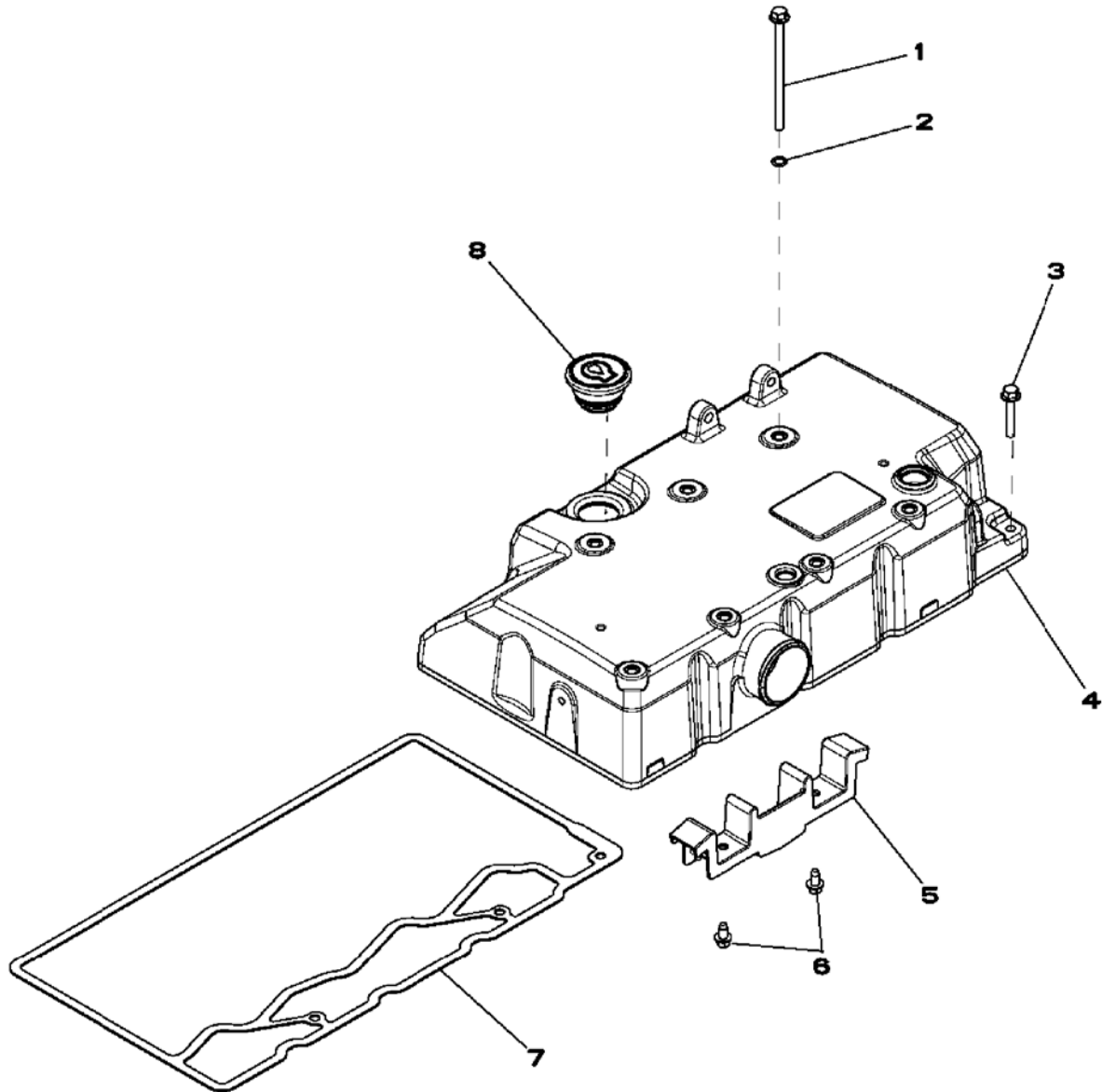
X Not sold separately.



Item	Part Number	Description	Quantity Variation 1162
1	GM50057	Screw, M6 x 12	2
2	GM52517	Heat shield	1
3	360004	Plug	4
4	360138	Nut, M8	4
5	360139	O-ring	4
6	GM52518	Valve cover	1
7	GM52519	Gasket	1
8	GM50069	Deflector	1
9	#	Screw, M6 x 20	1
10	360018	Filler cap	1
11	GM17493	Packing	1

Common hardware; procure locally.

Group 13: Rocker Arm Cover, continued



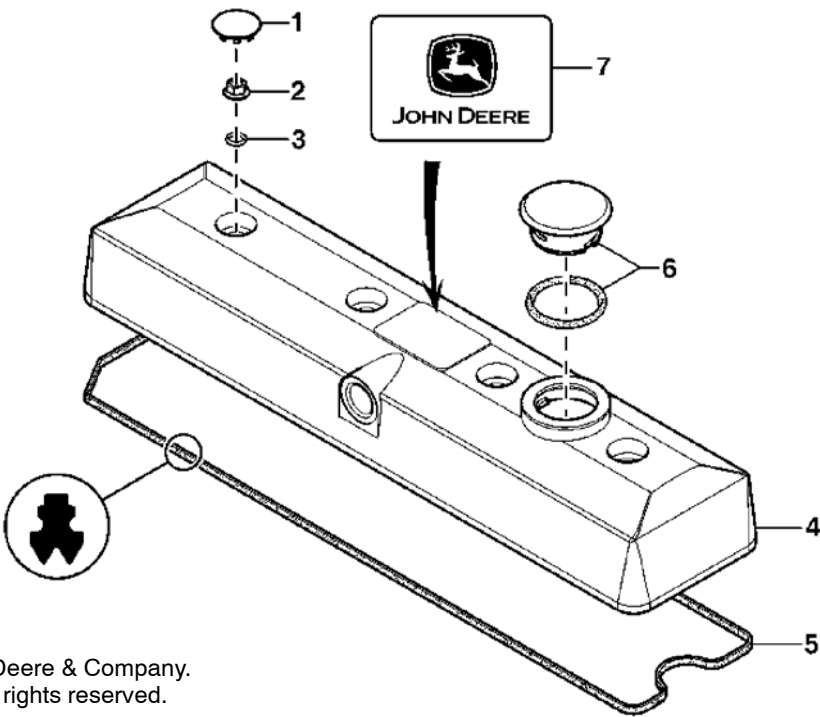
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RE529372PCD801

Item	Part Number	Description	Quantity Variation		
			1101B	1109	1113
1	GM63819	Screw	5	7	9
2	GM63709	O-ring	5	7	9
3	#	Screw, M6 x 35	1	1	1
4	GM63813	Valve cover	1		
4	GM63786	Valve cover		1	
4	GM63787	Valve cover			1
5	GM63722	Isolator	1		
5	GM63789	Isolator		1	1
6	#	Screw, M6 x 12	2	2	2
7	GM63705	Sealant	1		
7	GM63775	Gasket		1	
7	GM63774	Gasket			1
8	GM63726	Filler cap	1	1	1

Common hardware; procure locally.

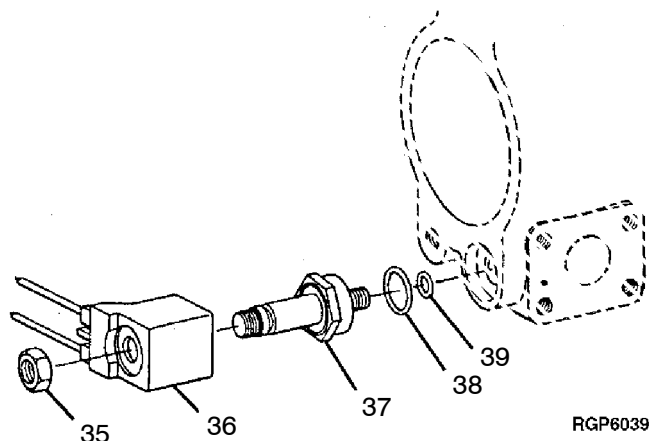
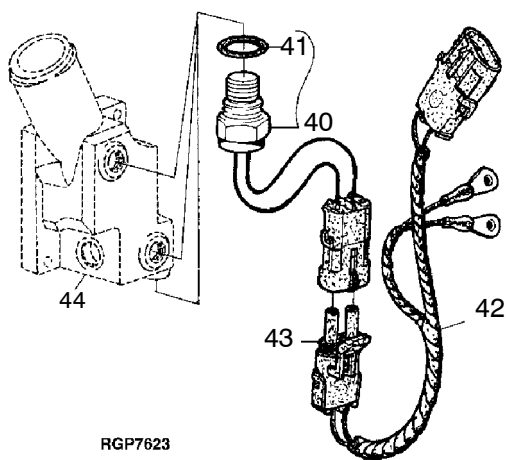
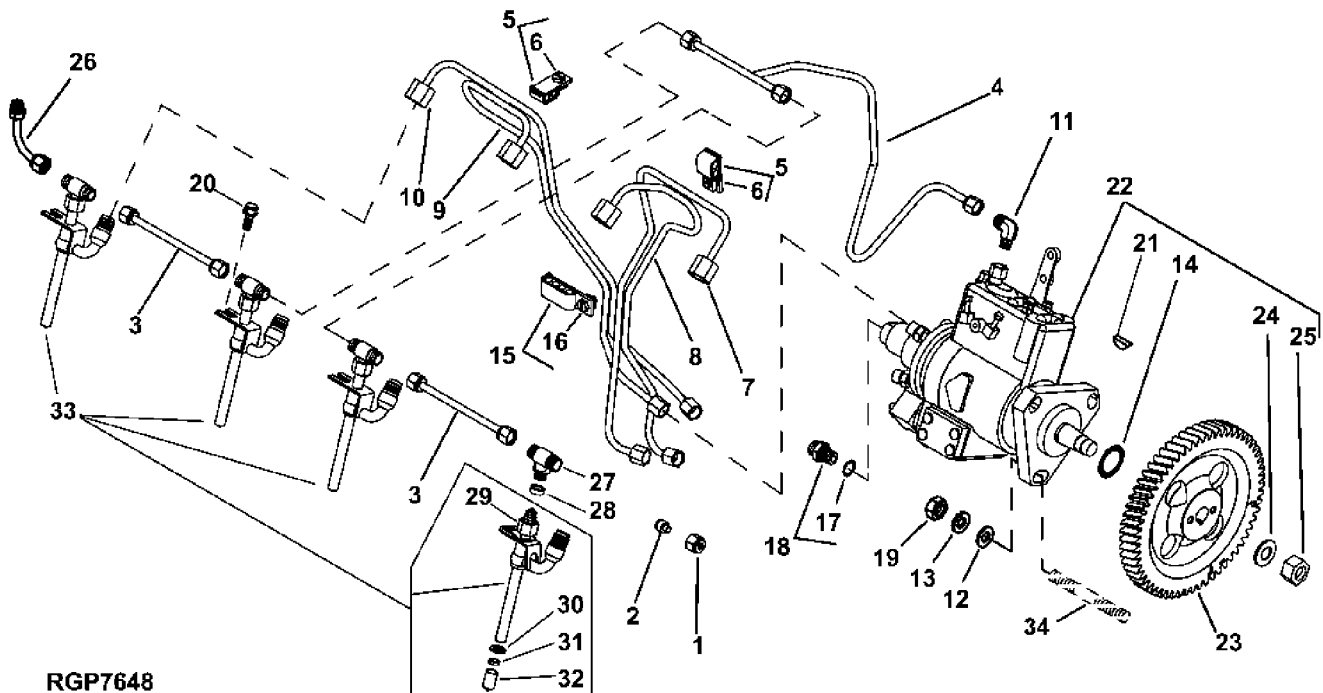
Group 13: Rocker Arm Cover



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Item	Part Number	Description	Quantity
			Variation
			1103
1	360004	Plug	4
2	360138	Nut	4
3	360139	O-Ring	4
4	360507	Rocker Arm Cover	1
5	GM50616	Gasket	1
6	GM91813	Plug	1
7	-	Medallion	1

Group 14: Fuel Injection Pump



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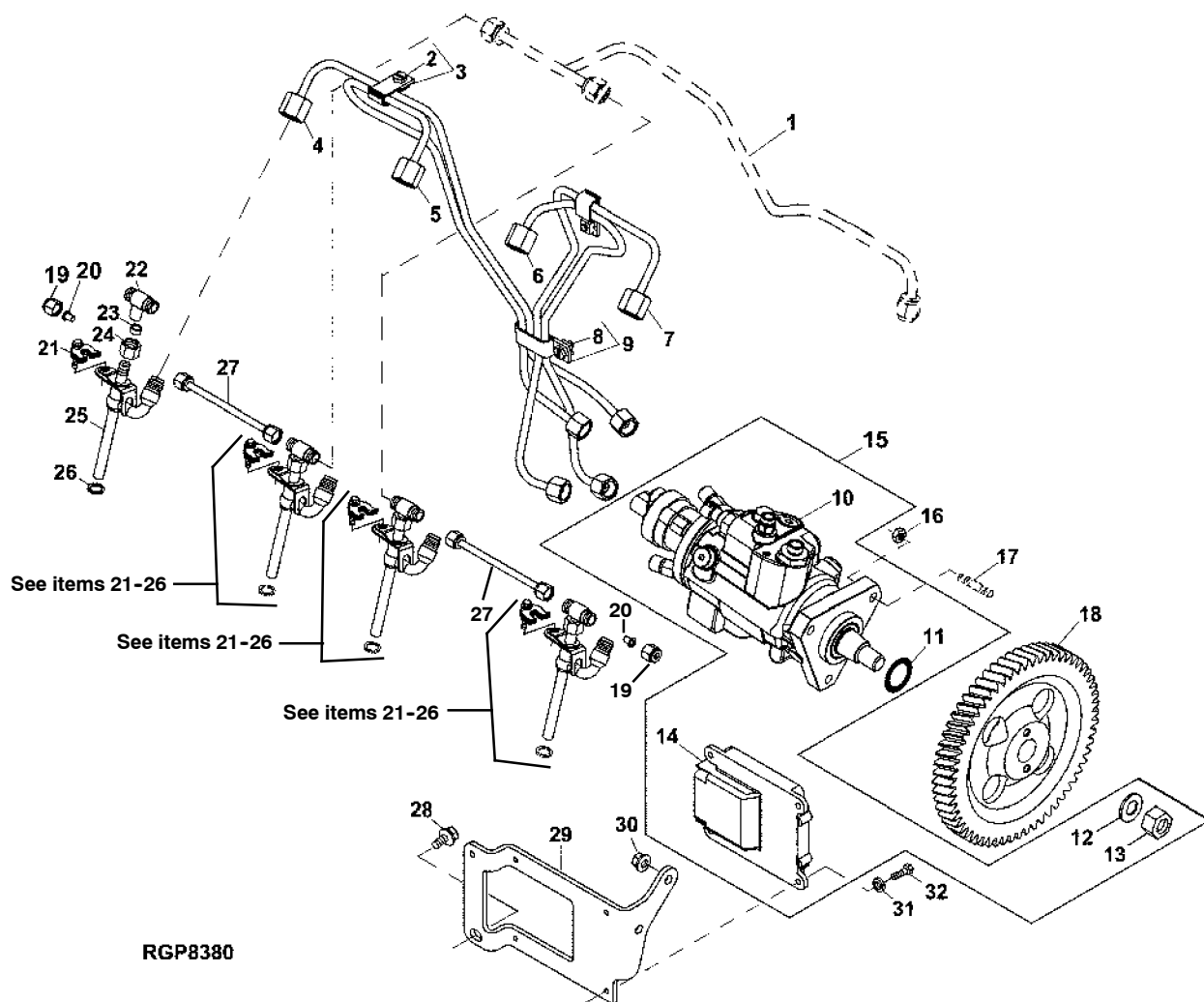
Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity	
			Variation	
			164X	164Y
1	360141	Nut	2	2
2	223710	Plug	2	2
3	223504	Tube	2	2
4	GM17549	Fuel line	1	1
5	223572	Clamp	2	2
6	#	Screw, M6 x 12	2	2
7	360536	Fuel line, no. 1	1	1
8	360537	Fuel line, no. 2	1	1
9	360538	Fuel line, no. 3	1	1
10	360539	Fuel line, no. 4	1	1
11	223837	Elbow fitting	1	1
12	#	Washer, lock, 8 mm	3	3
13	224338	Washer	3	3
14	GM17487	O-ring	1	1
15	223573	Clamp	1	1
16	#	Screw, M6 x 12	1	1
17	360178	O-ring	1	1
18	360037	Fitting	1	1
19	#	Nut, M8	3	3
20	360091	Screw	4	4
21	—	Not used	—	—
22	GM32841	Pump, fuel injection	1	
22	GM32842	Pump, fuel injection		1
23	360153	Gear, 60 teeth	1	1
24	GM17456	Washer	1	1
25	224161	Nut	1	1
26	—	See Group 17	—	—
27	GM21513	Tee fitting	4	4
28	223518	Washer	4	4
29	223517	Tube nut	1	1
30	224285	Packing	1	1
31	GM17473	Washer (standard nozzle bore)	1	1
32	224257	Plug	1	1
33	360017	Injection nozzle	4	4
34	—	See Group 32	3	3
35	GM32791	Nut	1	1
36	GM32784	Solenoid valve coil	1	1
37	GM32783	Valve	1	1
38	GM32785	Seal	1	1
39	GM17487	O-ring	1	1
40	GM21509	Switch, temperature	1	1
41	GM21508	O-ring	1	1
42	GM21510	Wiring harness	1	1
43	X	Connector	1	1
44	—	See Group 5	1	1

Common hardware; procure locally.

X Not sold separately.

Group 14: Fuel Injection Pump, continued



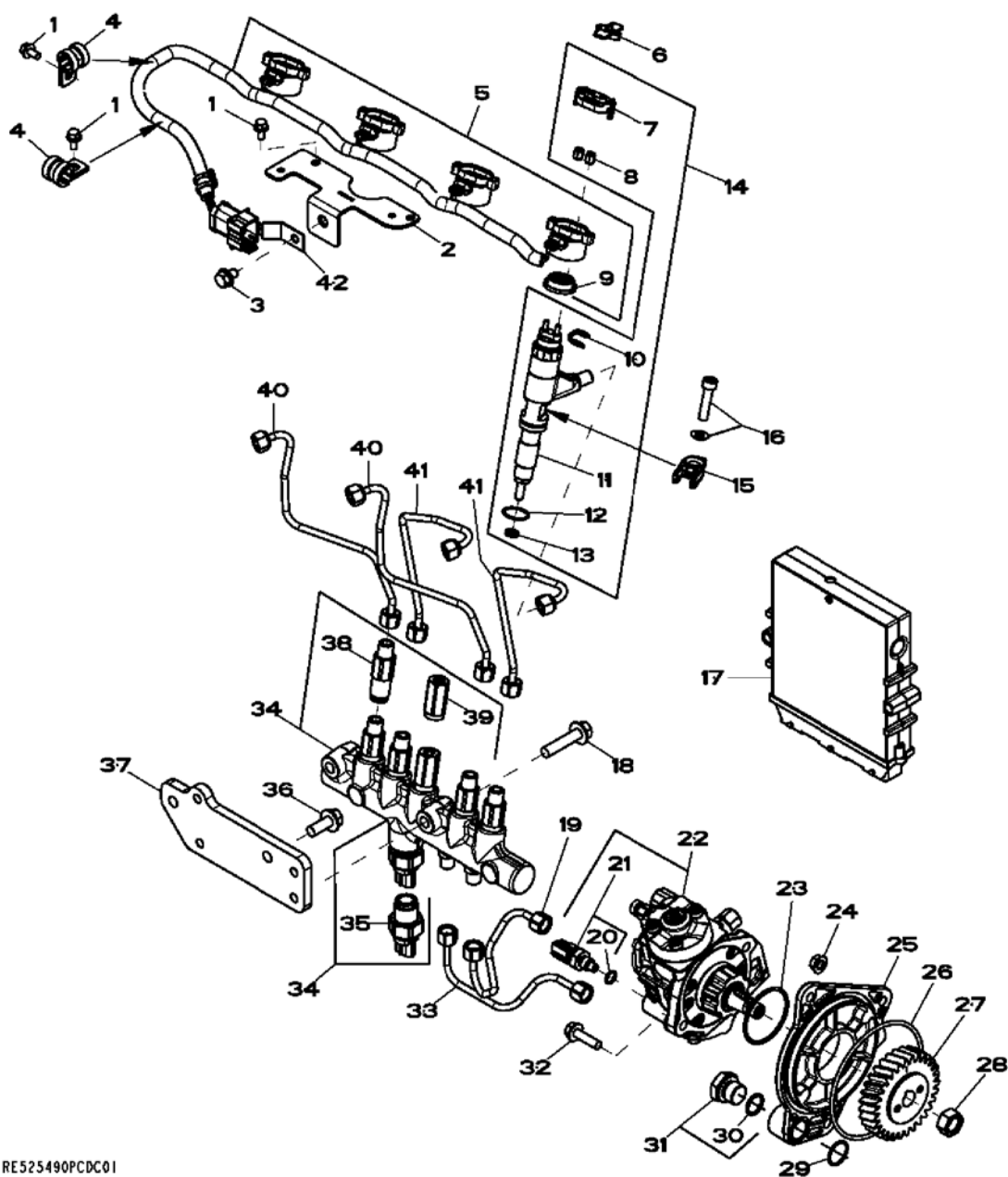
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Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity			
			Variation			
			163G	161G	163W	163Y
1	—	See Group 15	1	1	1	1
2	#	Screw	2	2	2	2
3	223572	Clamp	2	2	2	2
4	GM32818	Fuel line, no. 4	1	1	1	1
5	GM32817	Fuel line, no. 3	1	1	1	1
6	GM32816	Fuel line, no. 2	1	1	1	1
7	GM32815	Fuel line, no. 1	1	1	1	1
8	#	Screw	1	1	1	1
9	223573	Clamp	1	1	1	1
10	GM32839	Pump, fuel injection	1	1	1	1
11	GM17487	O-ring	1	1	1	1
12	GM17456	Washer	1	1	1	1
13	224161	Nut	1	1	1	1
14	GM32840	Controller, engine (ECU) 24 V		1		
14	GM32844	Controller, engine (ECU) 12 V	1		1	
14	GM32845	Controller, engine (ECU) 24 V				1
15	GM32835	Kit, pump/controller		1		
15	GM32834	Kit, pump/controller	1		1	
16	#	Nut, flange	3	3	3	3
17	—	See Group 32	1	1	1	1
18	GM32798	Gear	1	1	1	1
19	360141	Nut	2	2	2	2
20	223710	Plug	2	2	2	2
21	GM32825	Clamp	4	4	4	4
22	GM21513	Tee fitting	4	4	4	4
23	223518	Washer	4	4	4	4
24	223517	Tube nut	4	4	4	4
25	GM32819	Nozzle, injection	4	4		
25	360017	Nozzle, injection			4	4
26	224285	Packing	4	4	4	4
27	223504	Tube	2	2	2	2
27	223476	Sealing washer			2	2
28	#	Screw, M10 x 20	1	1	1	1
29	GM32793	Bracket	1	1	1	1
30	#	Nut, flange	2	2	2	2
31	#	Washer	4	4	4	4
32	#	Screw, cap	4	4	4	4

Common hardware; procure locally.

Group 14: Fuel Injection Pump, continued



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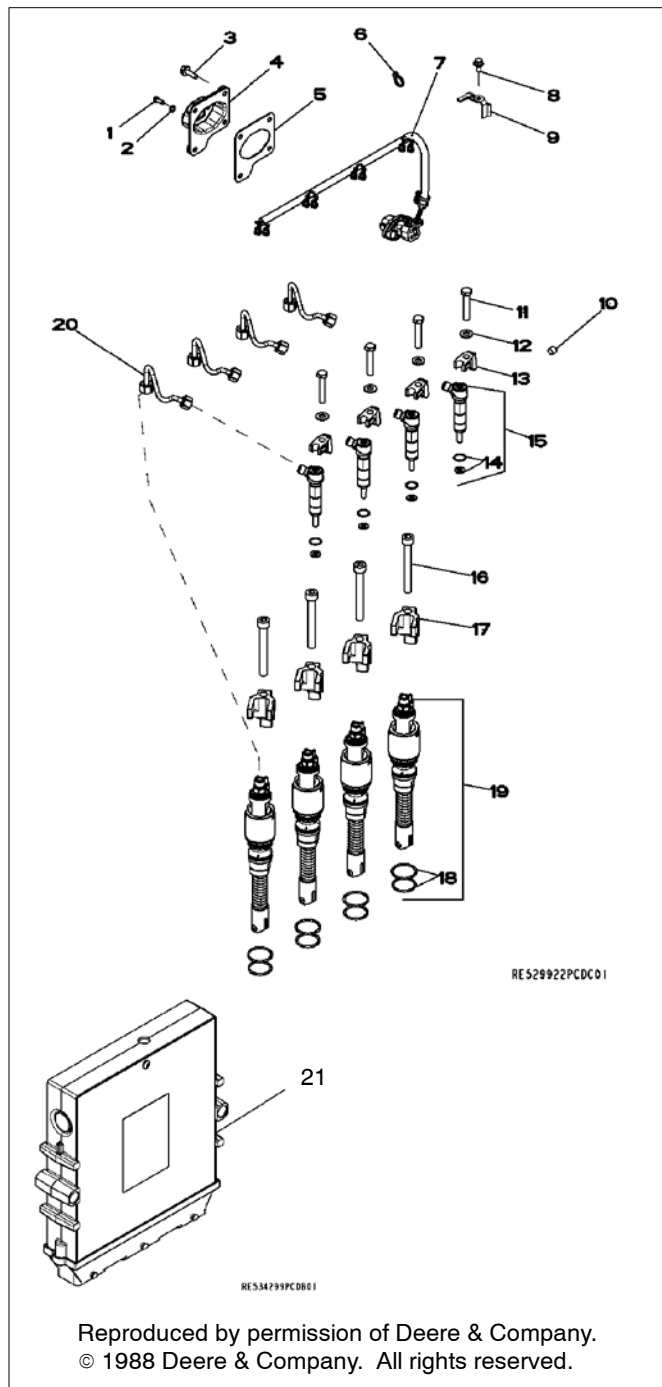
Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity Variation 16A5
1	GM50033	Cap screw	1
2	GM49924	Bracket	1
3	GM50057	Screw	4
4	GM50086	Clamp	2
5	GM52520	Wiring harness	1
6	—	Cap	1
7	GM50065	Electrical connector cap	4
8	GM46621	Nut	8
9	GM49915	Seal	1
10	GM49918	Washer, sealing	AR
11	—	(Order item 14)	4
12	GM46681	O-ring	4
13	GM49927	Washer, sealing	4
14	GM52521	Kit, injector	4
15	GM49883	Clamp	4
16	GM50059	Screw with washer	4
17	GM50042	Engine controller	1
18	#	Screw, M10 x 45	2
19	GM50049	Fuel line	1
20	GM52522	O-ring	1
21	GM46641	Fuel temperature sensor	1
22	GM50052	Fuel injection pump	1
22	GM77158	Control Valve	1
23	GM46643	O-ring	1
24	#	Flange nut, M8	3
25	GM46647	Adapter	1
26	GM46644	O-ring	1
27	GM46645	Gear	1
28	224161	Nut	1
29	GM46646	O-ring	1
30	360180	O-ring, 17.3 x 2.2 mm	1
31	360078	Plug, drain	1
32	#	Screw, M8 x 30	2
33	GM50050	Fuel line	1
34	GM52523	Rail	1
35	GM49988	Sensor	1
36	#	Screw, M10 x 25	2
37	GM52524	Bracket	1
38	GM46637	Restrictor	4
39	GM49936	Pressure relief valve	1
40	GM50044	Fuel line	2
41	GM50043	Fuel line	2
42	GM49889	Bracket	1

AR As Required

Common hardware; procure locally.

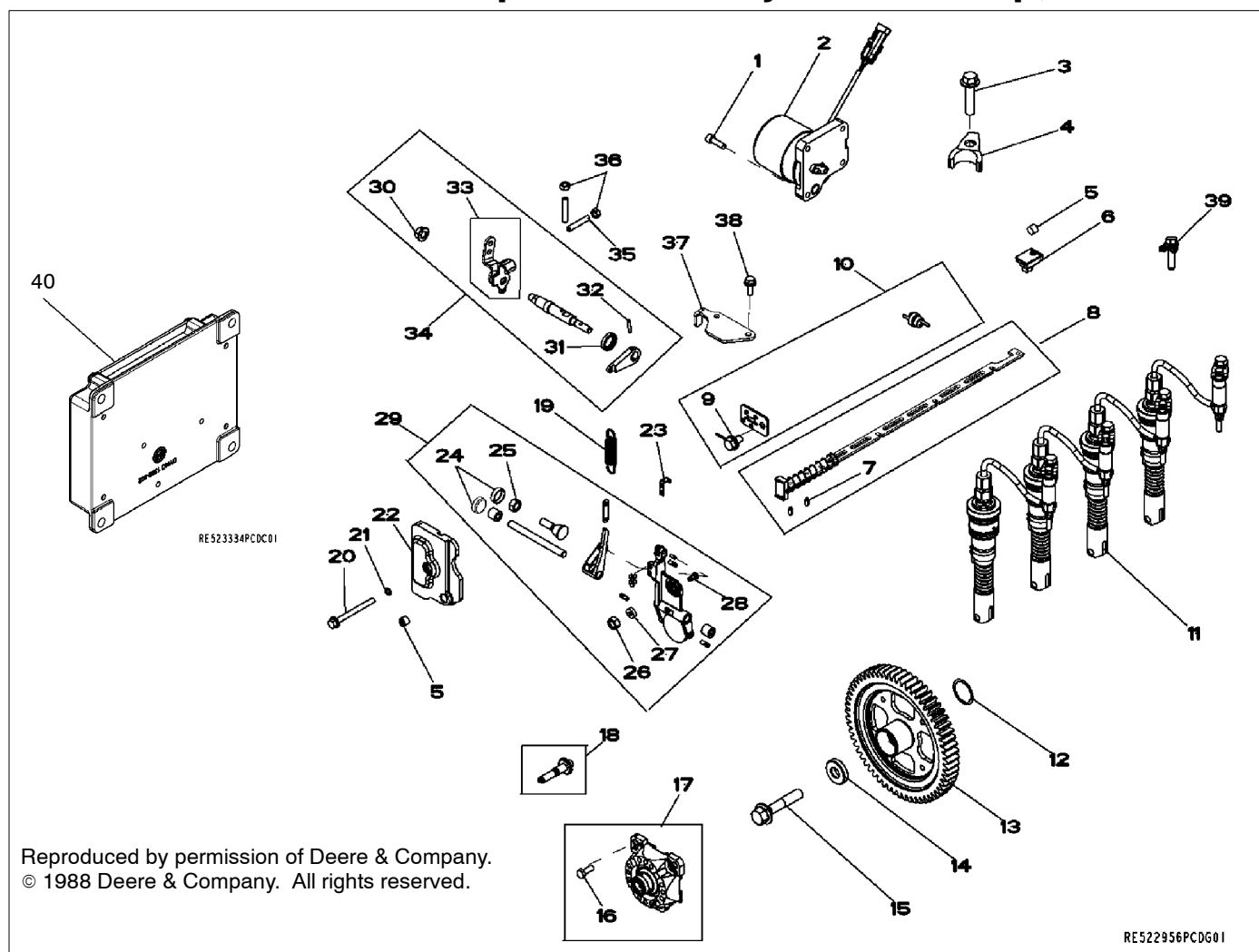
Group 14: Fuel Injection Pump, continued



Item	Part Number	Description	Quantity	
			Variation	
			1646	1662
1	#	Cap screw, M5 x 12	2	2
2	#	Washer	2	2
3	#	Screw, M6 x 20	4	4
4	GM63782	Cover	1	1
5	GM63784	Gasket	1	1
6	GM63754	Tie band	1	1
7	GM63883	Wiring harness	1	
7	GM63884	Wiring harness		1
8	#	Screw, M6 x 12	1	1
9	GM63781	Bracket	1	1
10	#	Pipe plug, 3.175 mm (1/8 in.)	1	1
11	#	Cap screw, M8 x 45	5	4
12	224338	Washer	5	4
13	GM63773	Clamp	5	4
14	GM63893	Seal kit	5	4
15	GM63882	Injection nozzle	5	4
16	#	Screw, M10 x 85	5	4
17	—	Clamp	5	4
18	GM63890	O-ring kit	5	4
19	GM63902	Fuel injection pump	5	4
20	GM63879	Fuel line	5	4
21	GM63876	Engine controller	1	1

Common hardware; procure locally.

Group 14: Fuel Injection Pump, continued



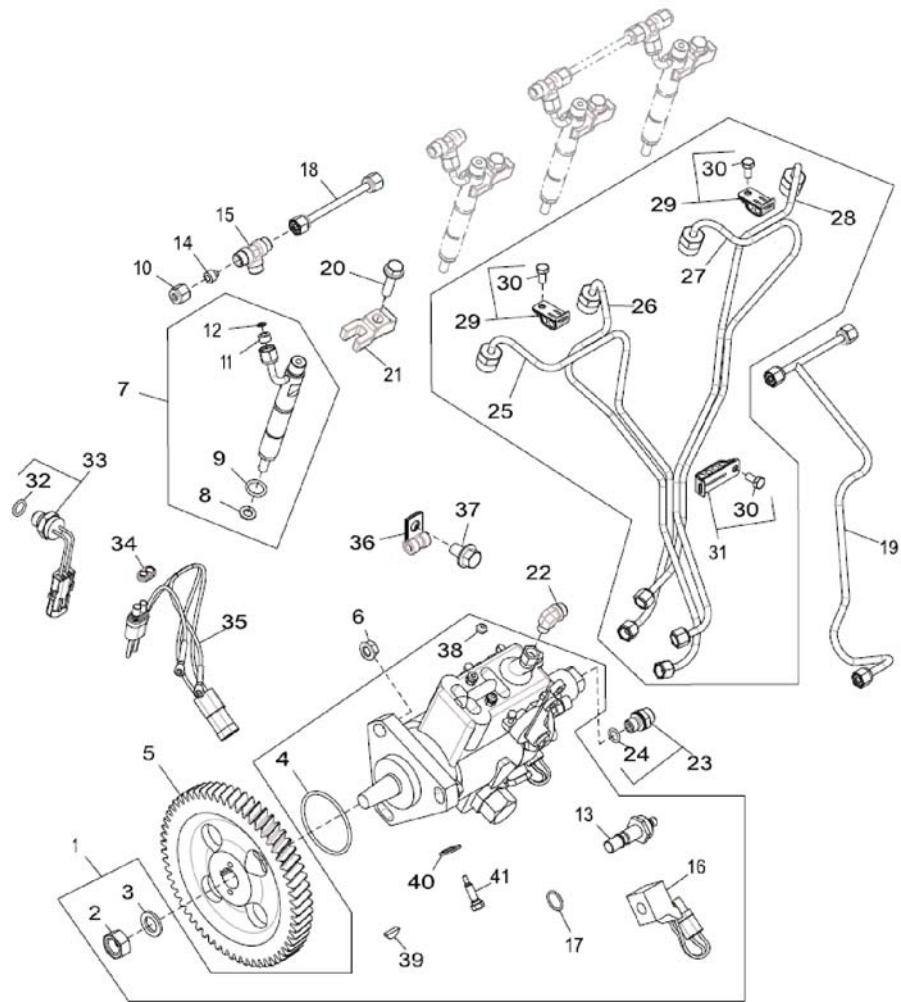
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Item	Part Number	Description	Quantity	Item	Part Number	Description	Quantity
			Variation 1632				Variation 1632
1	#	Screw, M6 x 20	4	21	223665	O-ring	2
2	GM63843	Actuator	1	22	GM63765	Cover	1
3	#	Screw, M10 x 45	4	23	GM63739	Leaf spring	1
4	GM63788	Clamp	4	24	GM63719	Plug	2
5	#	Pipe plug, 3.175 mm (1/8 in.)	2	25	#	Nut	1
6	GM63844	Rack	1	26	#	Nut, M8	1
7	#	Spring pin	2	27	—	Plate (order item 29)	1
8	GM63846	Rack kit	1	28	—	Screw (order item 29)	1
9	#	Screw, M8 x 12	1	29	GM63872	Governor kit	1
10	GM63837	Guide kit	1	30	#	Flange nut, M8	1
11	GM63887	Fuel pump	4	31	GM63807	Seal	1
	GM63840	Seal kit	AR	32	#	Spring pin	1
12	GM63728	Shim	1	33	GM63850	Lever	1
13	GM63714	Spur gear	1	34	GM63861	Throttle kit	1
14	GM63748	Washer	1	35	#	Set Screw, M6 x 35	2
15	GM63752	Screw	1	36	#	Nut, M6	2
16	#	Cap screw, M6 x 16	4	37	GM63760	Plate	1
17	GM63873	Flywheel kit	1	38	#	Screw, M6 x 16	2
18	GM63857	Magnet kit	1	39	GM63755	Clamp	4
19	GM63738	Extension spring	1	40	GM63847	Engine controller	1
20	#	Screw, M6 x 65	1				

AR As Required

Common hardware; procure locally.

Group 14: Fuel Injection Pump, continued

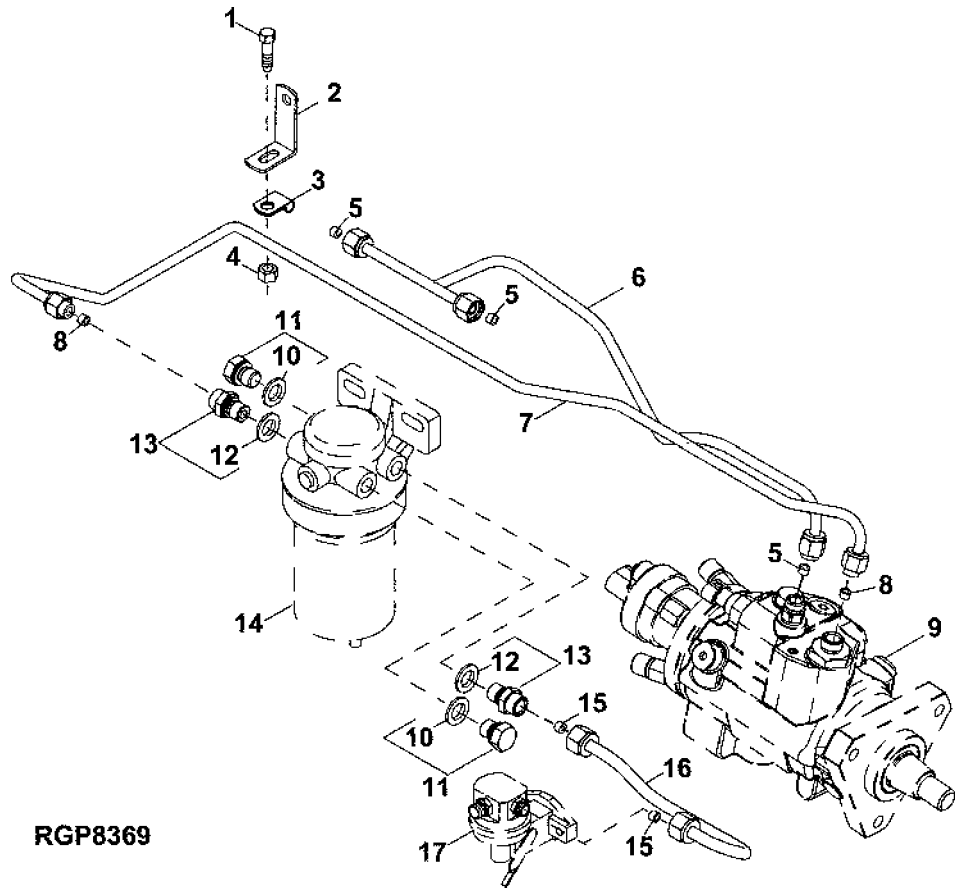


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Item	Part Number	Description	Quantity Variation 16F8
1	GM91814	Fuel Injection Pump	1
2	224161	Nut	1
3	GM17456	Washer	1
4	GM17487	O-ring	1
5	360153	Gear	1
6	#	Flange Nut, M8	3
7	GM91815	Injection Nozzle	4
8	GM91816	Washer	1
9	GM91817	O-Ring	1
10	360141	Nut	1
11	223476	Packing	1
12	GM91818	Piston Ring	1
13	GM32783	Valve	1
14	223710	Plug	2
15	223912	Tee Fitting	4
16	GM32784	Solenoid valve coil	1
17	GM32785	Seal	1
18	GM91819	Fuel Line	2
19	GM91820	Fuel Line	1
20	#	Screw, M8 X 30	4
21	GM91821	Clamp	4

Item	Part Number	Description	Quantity Variation 16F8
22	223837	Elbow Fitting	1
23	360037	Fitting	1
24	360178	O-Ring	1
25	GM91822	Fuel Line	1
26	GM91823	Line	1
27	GM91824	Fuel Line	1
28	GM91825	Fuel Line	1
29	223572	Clamp	2
30	#	Cap Screw, M6 X 12	1
31	223573	Clamp	1
32	GM21508	O-ring	1
33	GM91826	Temperature Swith	1
34	GM50657	Connector accessory	1
35	GM21510	Wiring harness	1
36	GM50659	Clamp	1
37	#	Screw, M10 X 16	1
38	GM32791	Nut	2
39	GM21499	Shaft key	1
40	GM91827	Lock Washer	1
41	GM91828	Cap Screw And Nut	1

Group 15: Fuel Lines



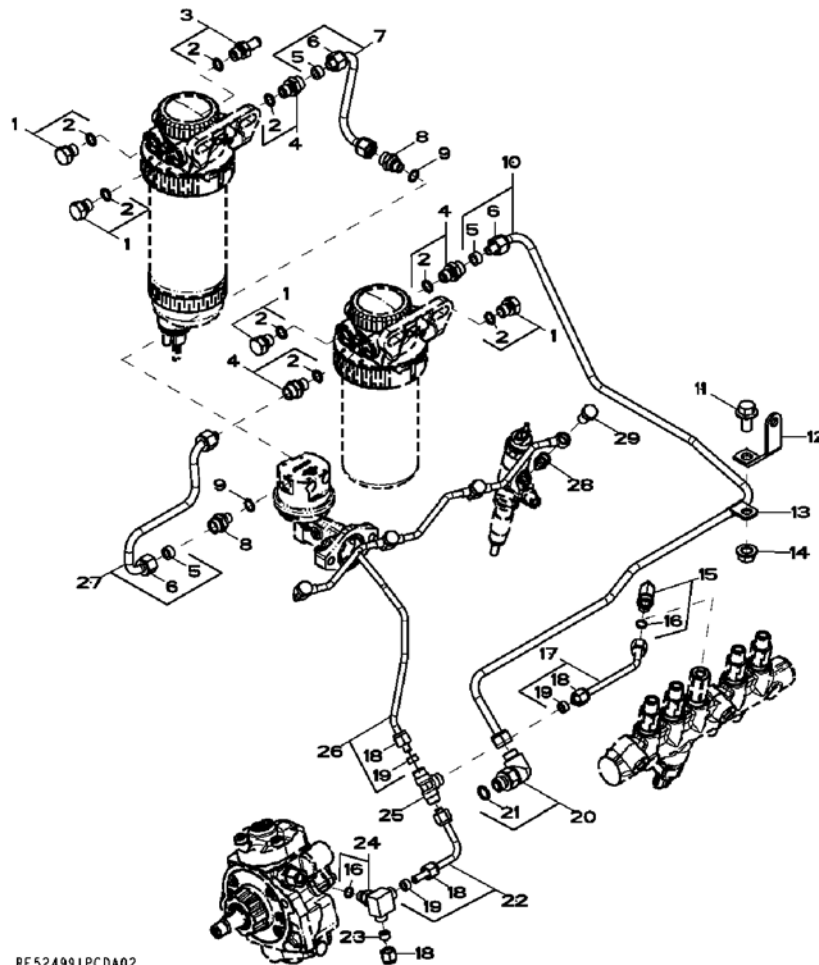
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Item	Part Number	Description	Quantity	
			Variation	
			6313	6366
1	#	Screw, M10 x 20	1	1
2	GM32797	Bracket	1	1
3	360171	Clamp	1	1
4	#	Flange nut, M10	1	1
5	223476	Sealing washer	3	3
6	GM32814	Line, fuel	1	
6	GM32833	Line, fuel		1
7	GM32831	Line, fuel	1	1
8	GM17494	Sealing washer	4	4
9	—	See Group 14	1	1
10	360178	O-ring	2	2
11	360015	Plug	2	2
12	360178	O-ring	2	2
13	360037	Adapter	2	2
14	—	See Group 17	1	1
15	GM17494	Sealing washer	4	4
16	GM32830	Line, fuel	1	1
17	—	See Group 16	1	1

Common hardware; procure locally.

Group 15: Fuel Lines, continued



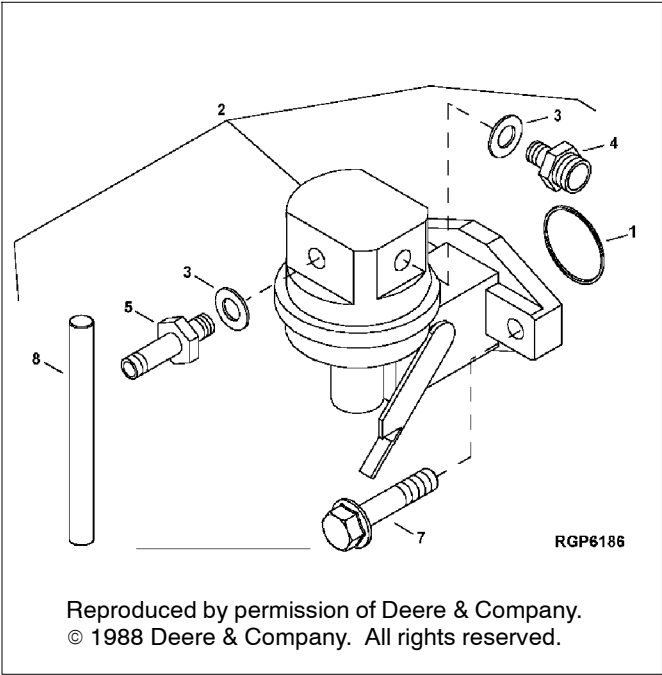
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Item	Part Number	Description	Quantity Variation 6386
1	360015	Plug	4
2	360178	O-ring	1
3	GM34530	Adapter	1
4	360037	Fitting	3
5	GM17494	Sealing washer	1
6	GM21453	Nut	1
7	GM52525	Fuel line	1
8	GM17470	Fitting	2
9	GM17471	O-ring	2
10	GM52526	Fuel line	1
11	GM32765	Screw	1
12	GM49832	Bracket	1
13	360171	Clip	1
14	#	Flange nut, M10	1
15	GM32920	Fitting	1

Item	Part Number	Description	Quantity Variation 6386
16	GM32896	O-ring	1
17	GM50018	Fuel line	1
18	360141	Nut	7
19	223476	Packing	6
20	GM50037	Fitting, elbow	1
21	GM21508	O-ring	1
22	GM50079	Fuel line	1
23	223710	Plug	1
24	GM50026	Fitting	1
25	223912	Tee fitting	1
26	GM52527	Fuel line	1
27	GM32830	Line, fuel	1
28	GM49918	Washer, sealing	4
29	GM32895	Fitting	4

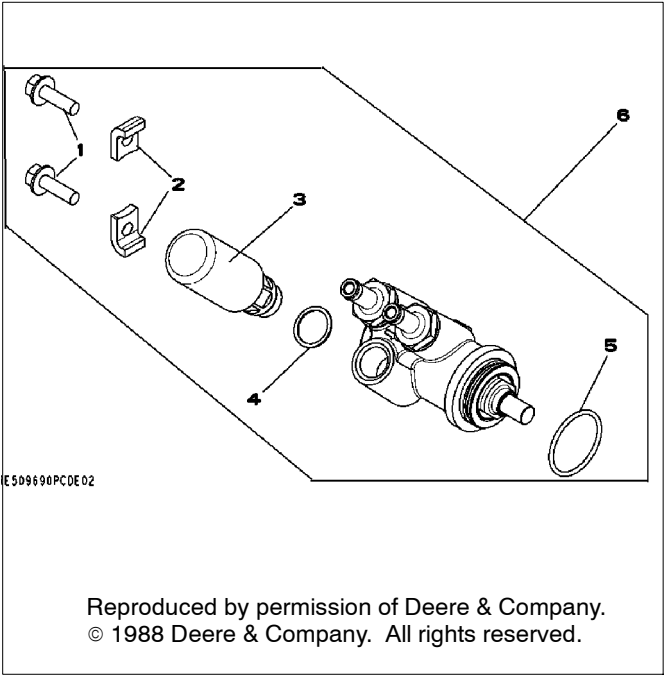
Common hardware; procure locally.

Group 16: Fuel Pump



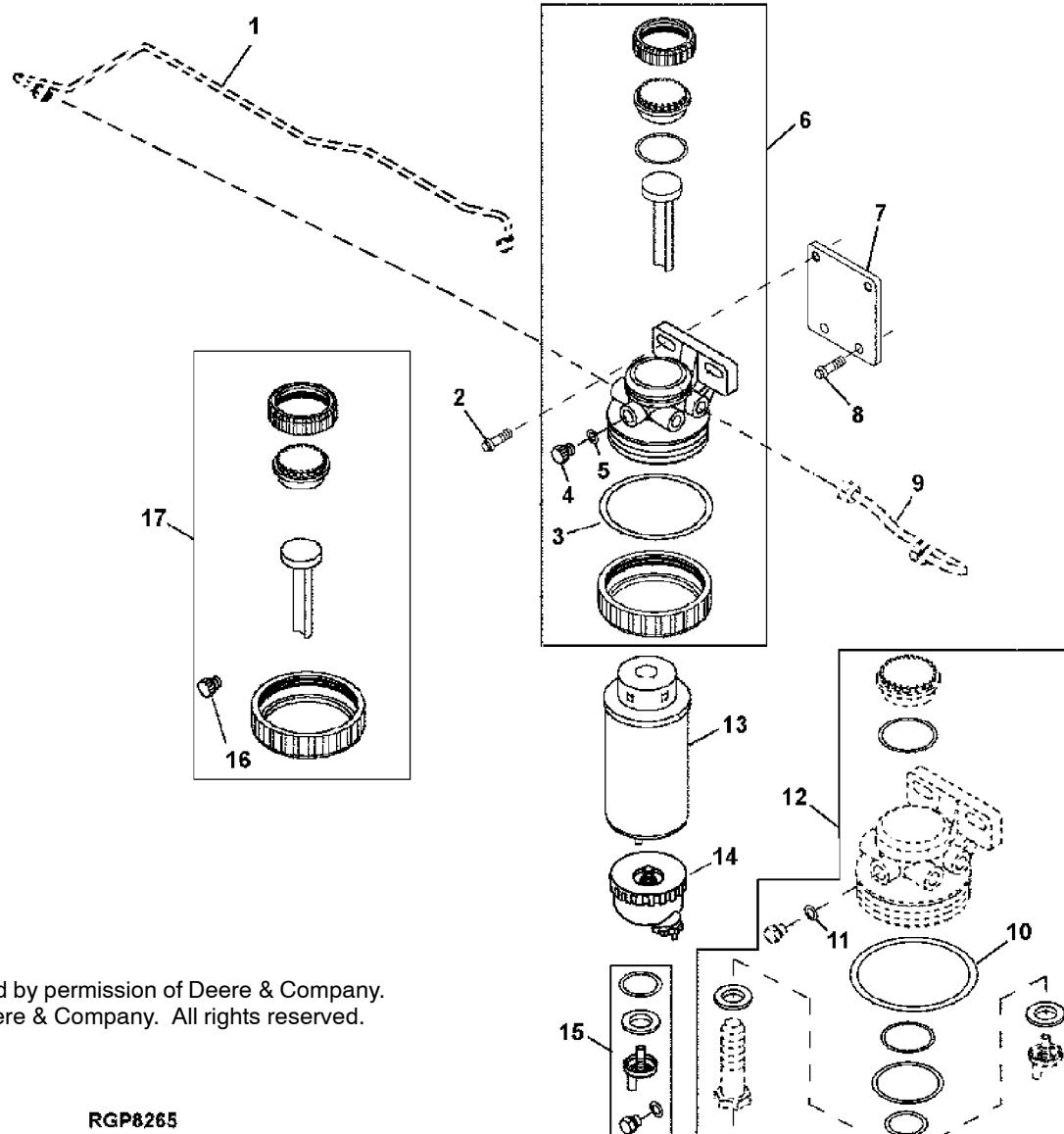
Item	Part Number	Description	Quantity	
			Variation	
			3702	3713
1	360119	O-ring	1	1
2	360071	Pump, fuel transfer	1	
2	GM52528	Pump, fuel transfer		1
3	GM17471	O-ring	2	
4	GM17470	Fitting	1	
5	GM18722	Fitting	1	
7	GM17525	Screw, cap	2	2
8	360159	Rod, push	1	1

Common hardware; procure locally.



Item	Part Number	Description	Quantity		
			Variation		
			3701	3709	3712
1	#	Screw, M6 x 20	2	2	2
2	—	Bracket	2		2
3	GM18867	Hand primer	1		1
4	223800	Washer	1		1
5	GM63802	O-ring kit	1	1	1
6	GM63891	Fuel pump	1		
6	GM64241	Fuel pump (w/o primer)		1	
6	GM63920	Fuel pump			1

Group 17: Fuel Filter



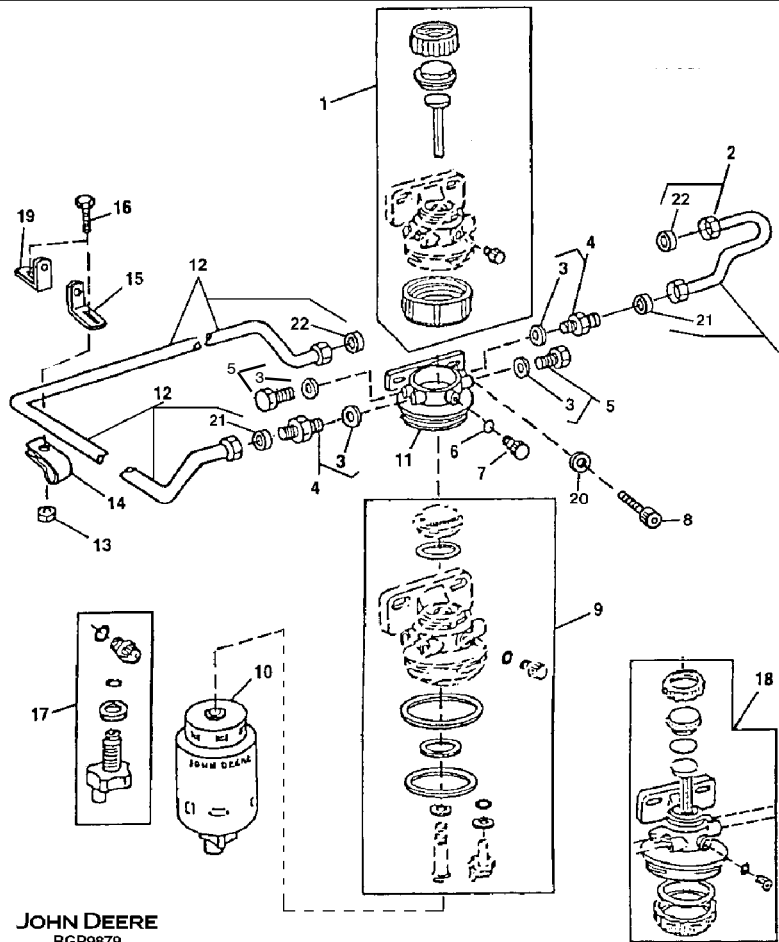
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RGP8265

Item	Part Number	Description	Quantity
			Variation 35BV
1	—	Fuel line (See Group 15)	1
2	#	Screw	2
3	222772	Seal	1
4	GM17444	Drain plug	1
5	352053	O-ring	1
6	GM32828	Seal kit	1
7	GM32800	Bracket	1
8	#	Screw, M10 x 20	2
9	—	Fuel line (See Group 15)	1
10	GM32836	Ring kit	1
11	352053	O-ring	1
12	GM32836	Ring kit	1
13	GM32827	Filter element	1
14	GM32731	Bowl, sediment	1
15	360048	Kit, bleed plug and drain valve	1
16	GM17444	Drain plug	1
17	222773	Seal kit	1

Common hardware; procure locally.

Group 17: Fuel Filter, continued



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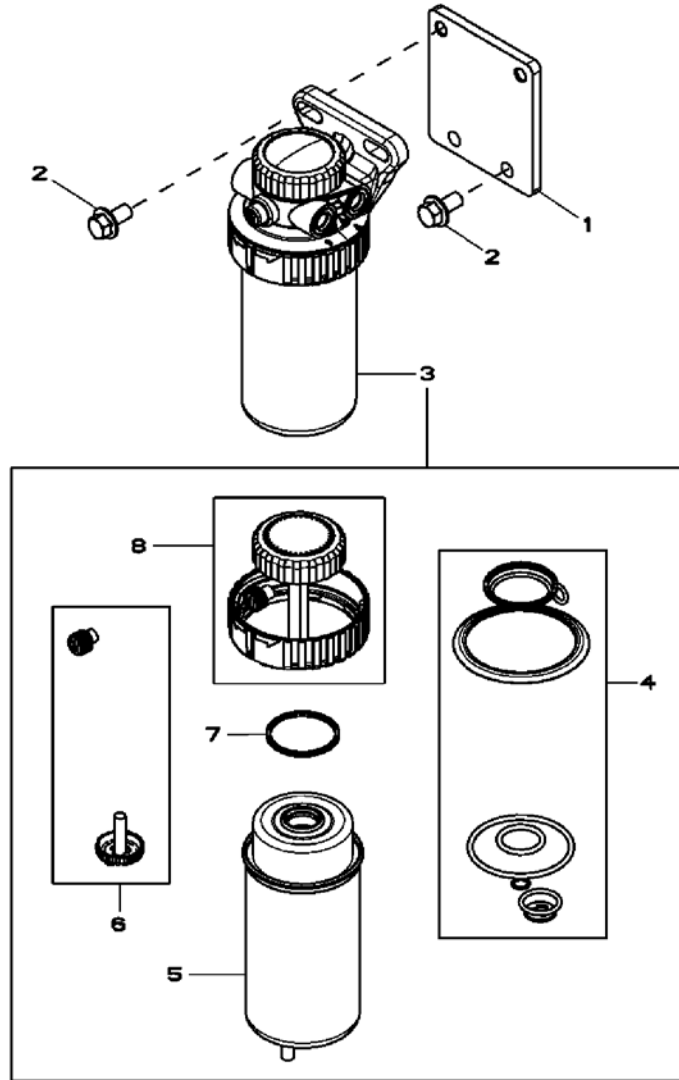
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Item	Part Number	Description	Quantity
			Variation 3563
1	222773	Seal kit	1
2	275502	Fuel line	1
2	GM17494	Washer	2
3	360178	O-ring	1
4	360037	Adapter	2
5	360015	Plug	1
6	X	O-ring (order item 17)	1
7	X	Plug (order item 17)	1
8	#	Screw, M10 x 25	2
9	222772	Kit	1
10	336661	Filter, fuel	1
11	GM17543	Kit	1
12	GM17534	Fuel line	1
13	#	Nut, M8	1
14	360171	Clamp	1
15	360088	Bracket	1
16	#	Screw, M8 x 16	1
17	360048	Kit	1
18	GM17543	Kit	1
19	223492	Strap	1
20	#	Washer, 10.5 x 8 x 1.6 mm	2
21	GM17494	Sealing washer	2
22	GM17494	Sealing washer	2
23	GM32731	Sediment bowl (not shown)	1

Common hardware; procure locally.

X Not sold separately

Group 17: Fuel Filter, continued



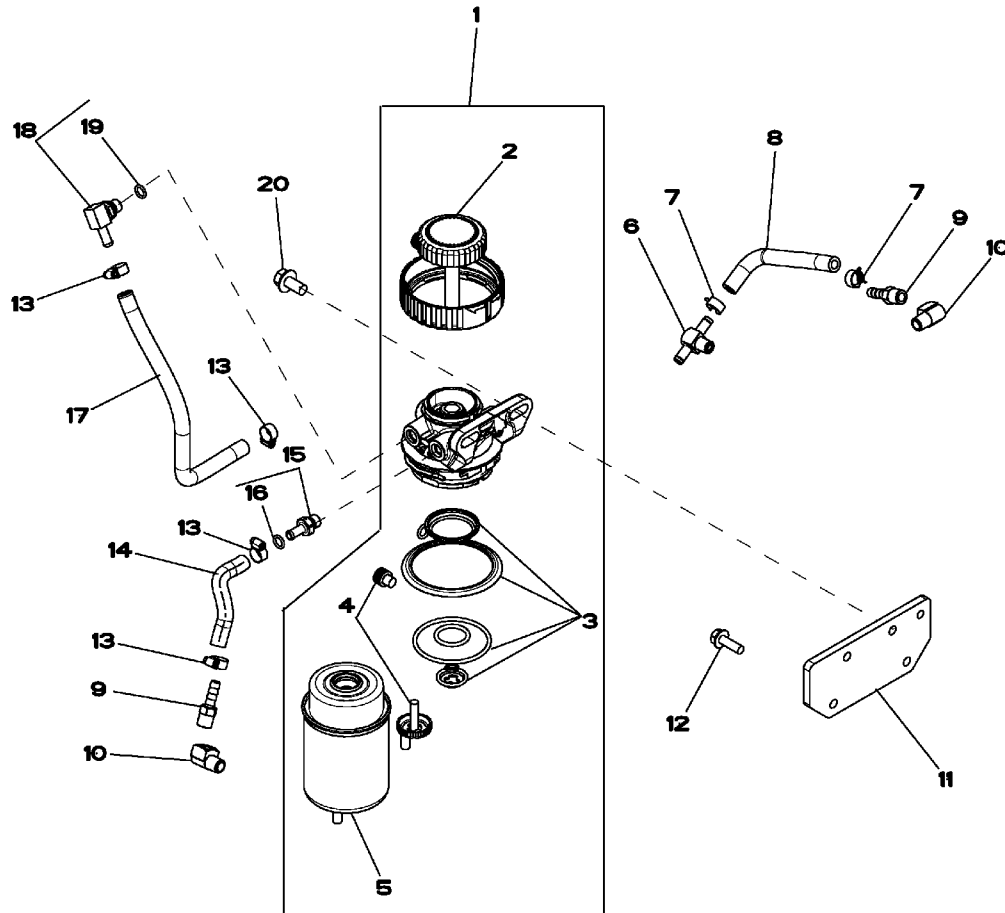
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Item	Part Number	Description	Quantity Variation 35ED
1	GM32800	Bracket	1
2	#	Screw, M10 x 20	4
3	GM50032	Filter	1
4	222772	Seal	1
5	GM50006	Filter element	1
6	360048	Kit, bleed plug and drain valve	1
7	GM32836	Ring kit	1
8	222773	Seal kit	1

Common hardware; procure locally.

Group 17: Fuel Filter, continued



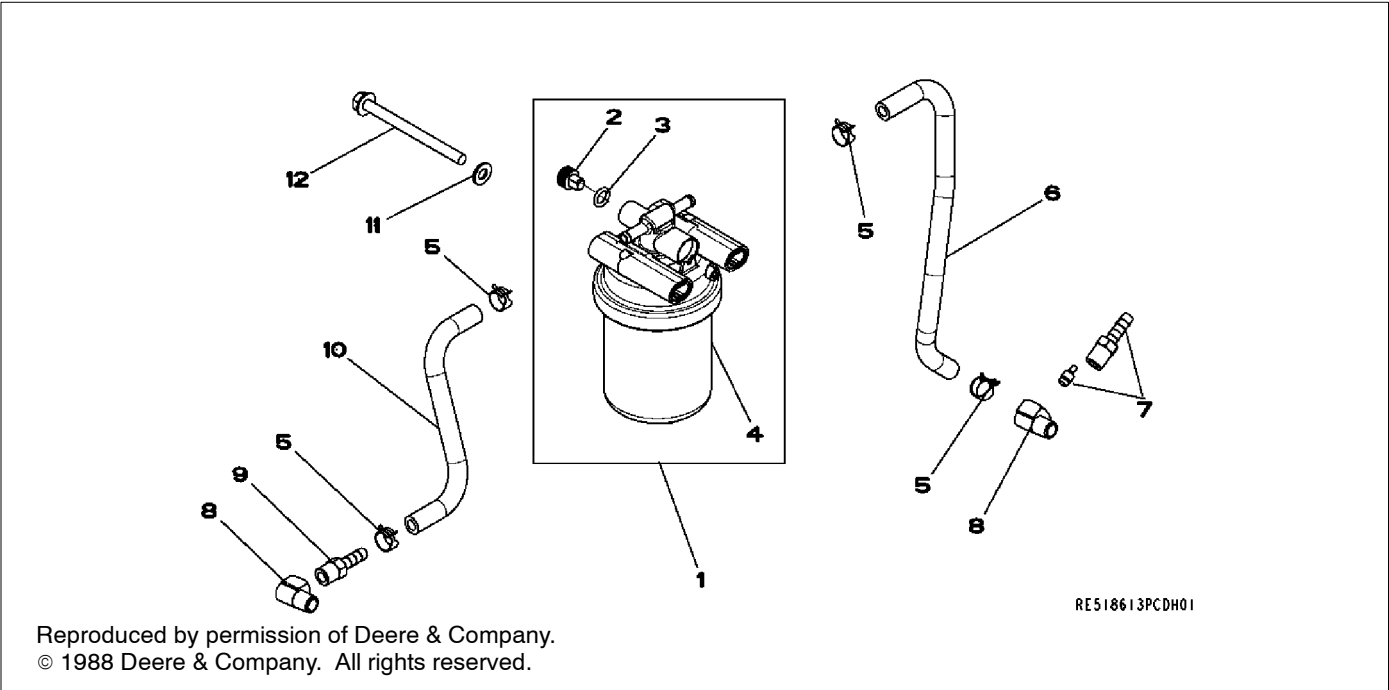
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Item	Part Number	Description	Quantity			
			Variation			
			3535	3538	3540	3543
1	GM64242	Filter (w/hand pump)	1	1		
1	GM63921	Filter			1	1
1	GM64243	Kit, hand pump (not shown)	1	1		
2	222773	Seal kit	1	1	1	1
3	222772	Seal kit	1	1	1	1
4	360048	Kit, bleed plug & drain valve	1	1	1	1
5	GM63894	Filter element	1	1	1	1
6	GM64244	Tee fitting	1	1		
6	GM63922	Tee fitting			1	1
7	GM63751	Hose clamp	2	2	2	2
8	GM63779	Hose	1	1	1	1
9	GM63897	Hose fitting	2	2	2	2
10	GM63896	Elbow fitting	2	2	2	2
11	GM63794	Bracket	1	1	1	1
12	#	Screw, M8 x 25	2	2	2	2
13	GM63929	Clamp	4	4	4	4
14	GM63797	Hose	1		1	
14	GM63796	Hose		1		1
15	GM63900	Fitting	1	1	1	1
16	360178	O-ring	1	1	1	1
17	GM63795	Hose	1	1	1	1
18	GM21454	Fitting, hose	1	1	1	1
19	360178	O-ring	1	1	1	1
20	#	Screw	2	2	2	2

Common hardware; procure locally.

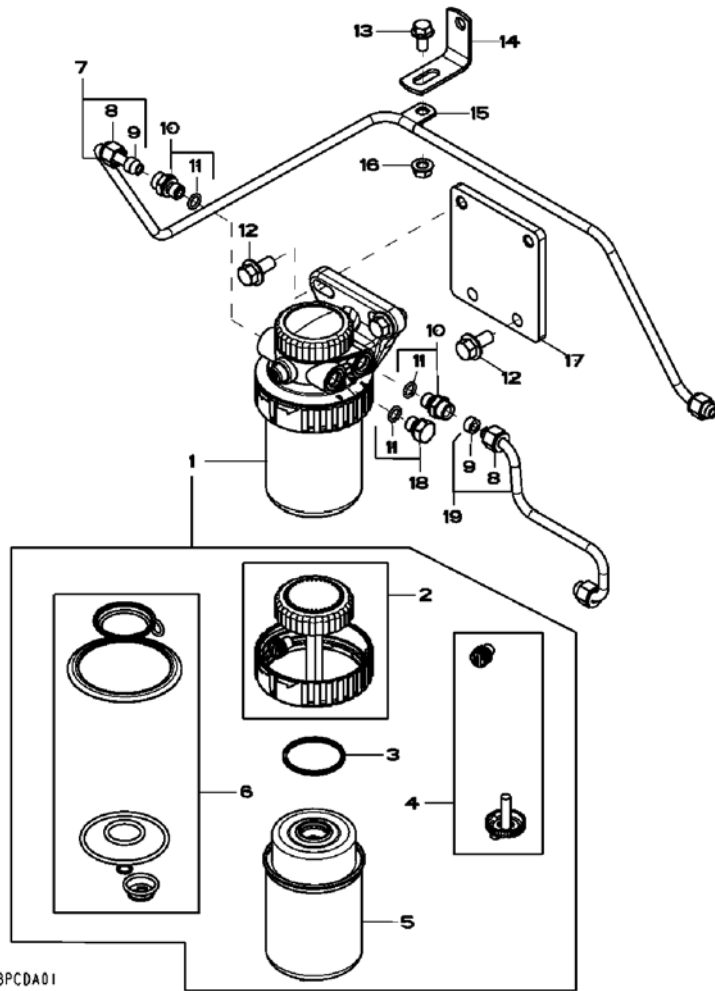
Group 17: Fuel Filter, continued



Item	Part Number	Description	Quantity
			Variation 3505
1	GM63863	Fuel filter	1
2	GM17444	Drain plug	1
3	352053	Ring	1
4	GM63809	Fuel filter	1
5	GM63751	Hose clamp	4
6	GM21451	Hose	1
7	GM63810	Hose fitting	1
8	GM63896	Elbow fitting	2
9	GM63897	Hose fitting	1
10	GM21451	Hose	1
11	224338	Washer	2
12	#	Screw, M8 x 100	2

Common hardware; procure locally.

Group 17: Fuel Filter, continued



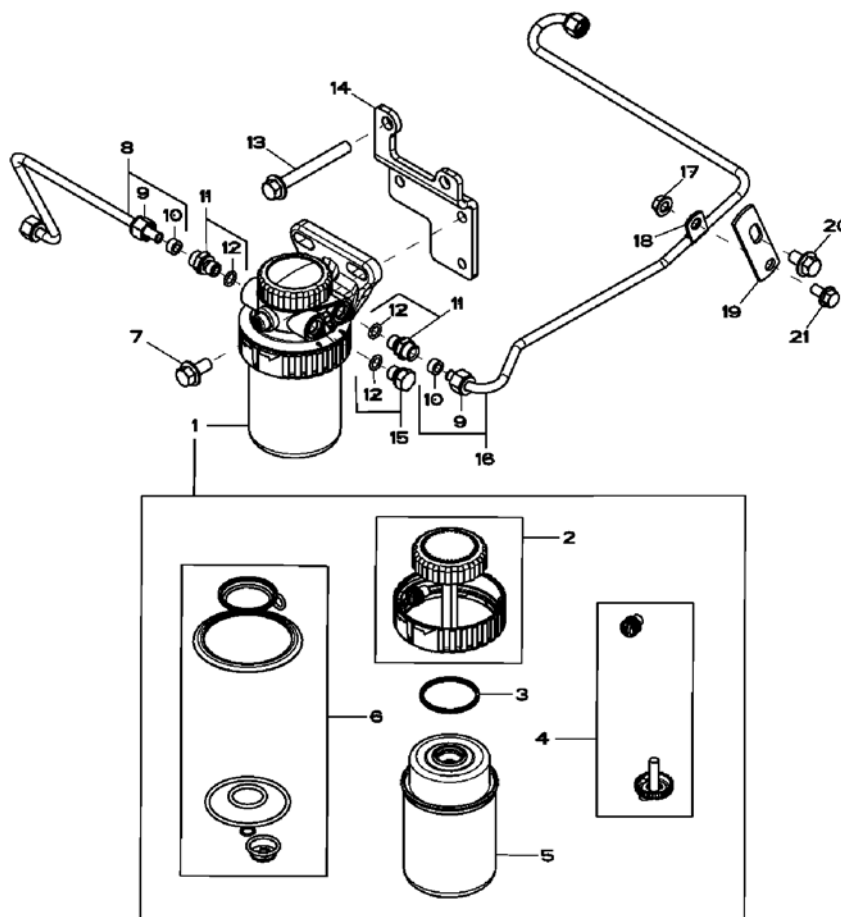
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Item	Part Number	Description	Quantity
			Variation 35EU
1	GM91829	Filter	1
2	222773	Seal Kit	1
3	GM32836	Ring kit	1
4	360048	KIT, BLEED PLUG & DRAIN VALVE	1
5	GM91830	Filter Element	1
6	222772	Seal Kit	1
7	GM91831	Fuel Line	1
8	GM21453	Nut	AR
9	GM17494	Sealing washer	AR
10	360037	FITTING	2
11	360178	O-RING	1
12	GM32765	Screw	4
13	#	Screw, M8 X 16	1
14	360088	Bracket	1
15	360171	CLIP	1
16	#	Flange Nut, M8	1
17	GM32800	Bracket	1
18	360015	PLUG	2
19	GM32830	Line, fuel	1

Common hardware; procure locally.

X Not sold separately

Group 17: Fuel Filter, continued



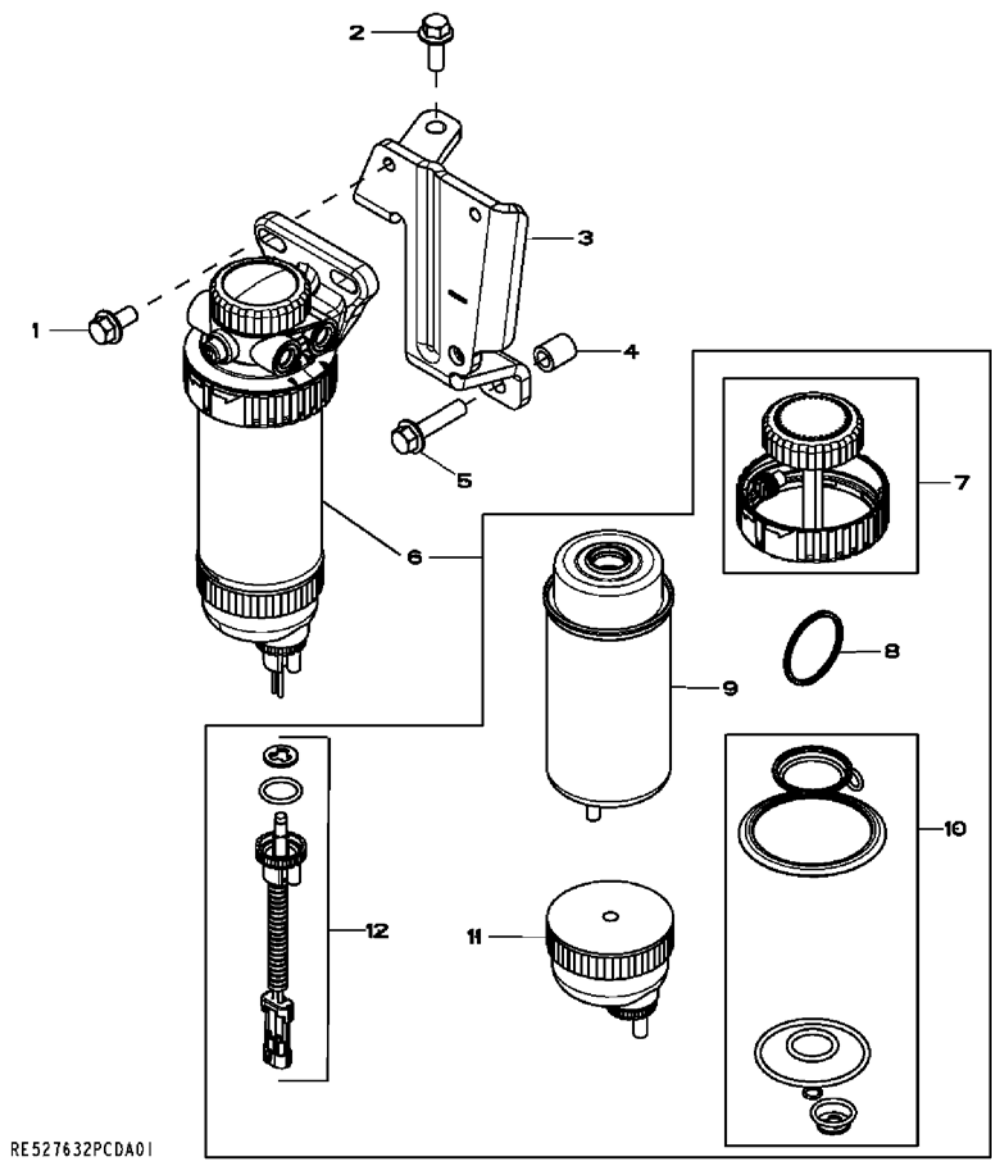
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Item	Part Number	Description	Quantity Variation 35EV
1	GM91829	Filter	1
2	222773	Seal Kit	1
3	GM32836	Ring kit	1
4	360048	KIT, BLEED PLUG & DRAIN VALVE	1
5	GM91830	Filter Element	1
6	222772	Seal Kit	1
7	GM32765	Screw	2
8	GM91834	Fuel Line	1
9	GM21453	Nut	
10	GM17494	Sealing washer	
11	360037	FITTING	2
12	360178	O-RING	1
13	#	Screw, M10 X 85	2
14	GM91835	Bracket	1
15	360015	PLUG	2
16	GM91836	Fuel Line	1
17	#	Flange Nut, M8	1
18	360171	CLIP	1
19	223492	STRAP	1
20	#	Screw, M10 X 16	1
21	#	Screw, M8 X 16	1

Common hardware; procure locally.

X Not sold separately

Group 17B: Primary Fuel Filter



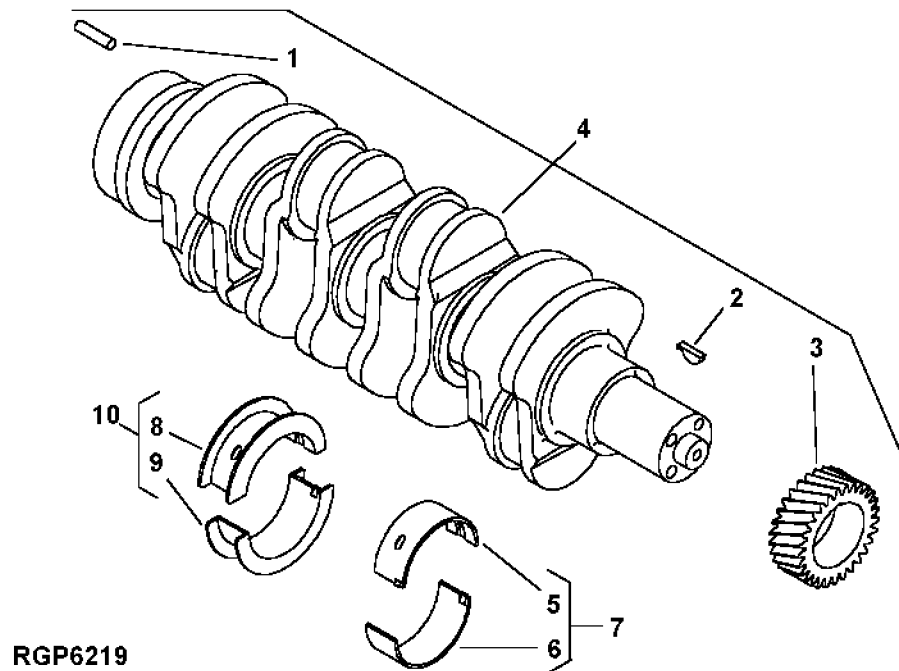
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Item	Part Number	Description	Quantity
			Variation 8170
1	#	Screw, M10 x 20	2
2	#	Screw, M10 x 25	1
3	GM52539	Bracket	1
4	GM52540	Spacer	1
5	#	Screw, M10 x 45	1
6	GM50073	Filter	1
7	222773	Seal kit	1
8	GM32836	O-ring kit	1
9	GM50074	Filter element	1
10	222772	Seal kit	1
11	GM32731	Sediment bowl	1
12	GM49940	Moisture sensor	1

Common hardware; procure locally.

Group 18: Crankshaft

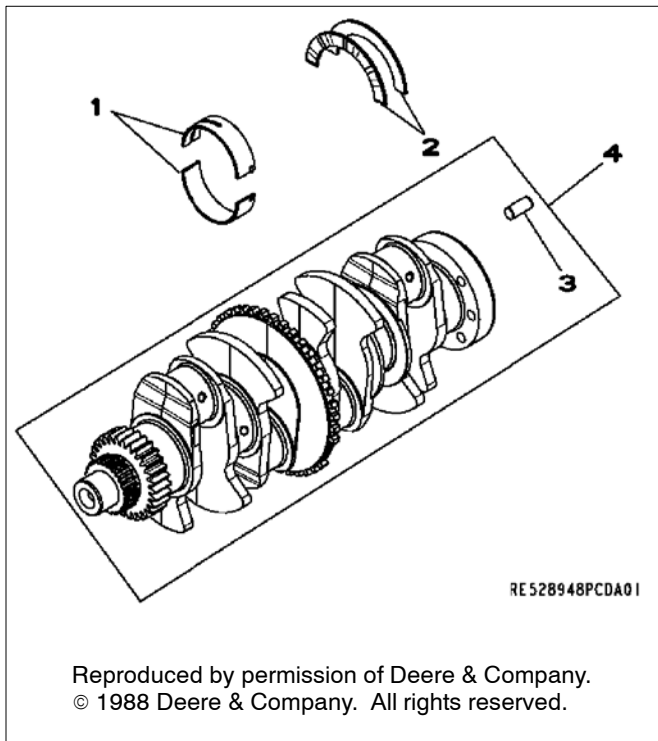


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Item	Part Number	Description	Quantity
			Variation 4715
1	223472	Dowel pin	1
2	360503	Key, shaft	1
3	360099	Gear 30 teeth	1
4	GM32811	Crankshaft	1
5	X	Bearing (not sold separately)	4
6	X	Bearing (not sold separately)	4
7	360049	Bearing kit, standard	4
7	360055	Bearing kit, undersize 0.254 mm	4
8	X	Bearing (not sold separately)	4
9	X	Bearing (not sold separately)	4
10	360050	Bearing, standard	1
10	360056	Bearing, undersize 0.254 mm	1
—	360581	Bolt, flywheel/crankshaft	4

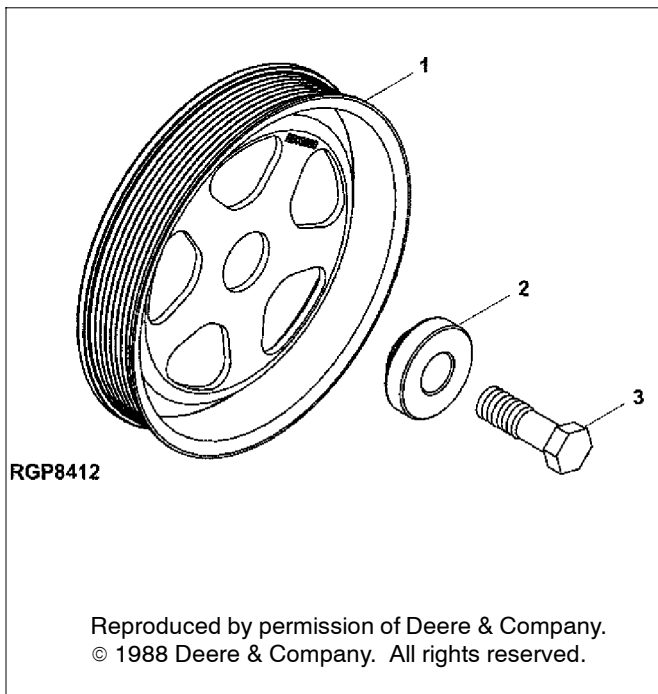
X Not sold separately.

Group 18: Crankshaft, continued



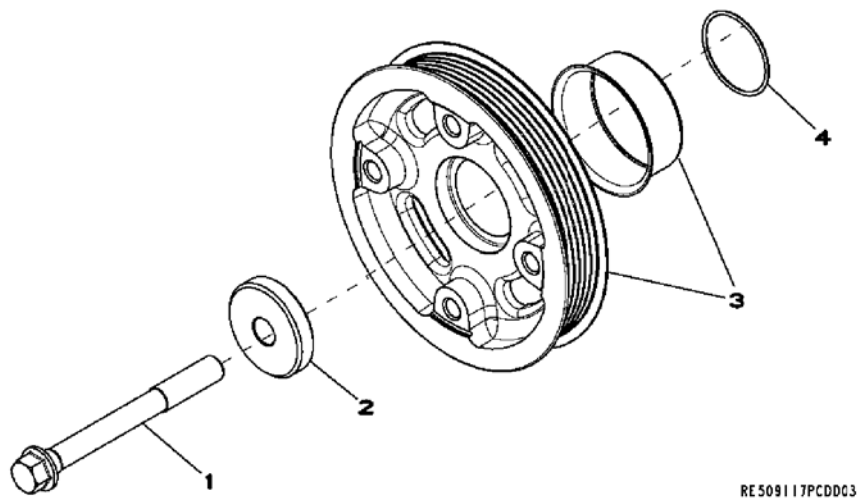
Item	Part Number	Description	Quantity		
			Variation		
			4701	4703	4704
1	GM63831	Bearing kit std	5	5	6
1	GM63855	Bearing kit, 0.25 US	5	5	5
2	GM63832	Thrust washer kit	1	1	1
3	223472	Dowel pin	1	1	1
4	GM63803	Crankshaft	1		
4	GM63868	Crankshaft		1	
4	GM63869	Crankshaft			1

Group 19: Crankshaft Pulley



Item	Part Number	Description	Quantity	
			Variation	
			1327	1328
1	GM37464	Pulley		1
1	GM32794	Pulley	1	
2	GM32801	Bushing	1	1
3	GM32764	Bolt	1	1

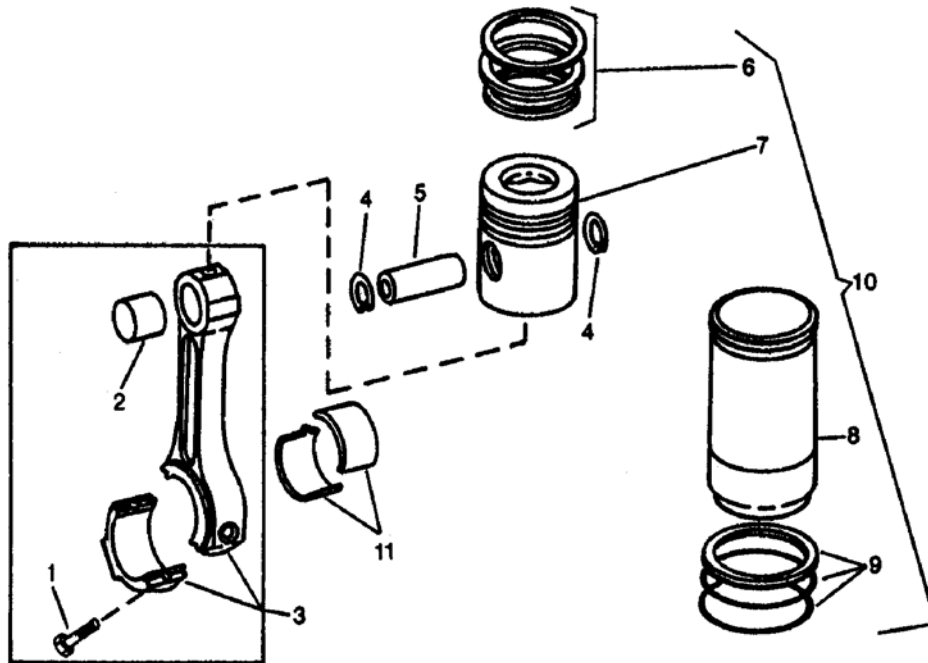
Group 19: Crankshaft Pulley, continued



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Item	Part Number	Description	Quantity	
			Variation	
			1301	1303
1	GM63720	Cap screw, M12 x 110	1	1
2	GM63716	Bushing	1	1
3	GM63829	Pulley kit (also order seal 223422)	1	
3	GM63845	Pulley kit (also order seal 223422)		1
4	GM63924	O-ring	1	1

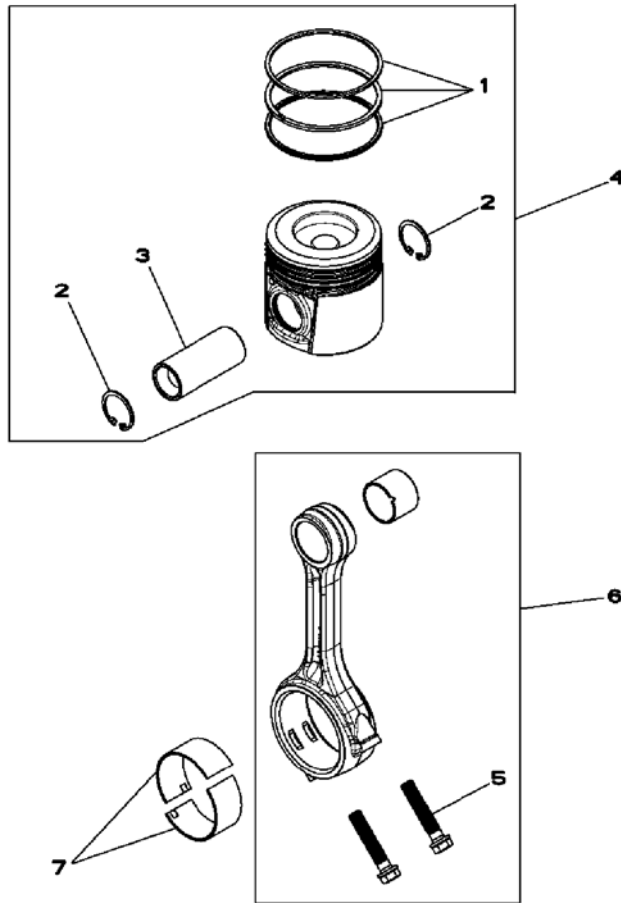
Group 20: Piston and Connecting Rod



Item	Part Number	Description	Quantity				
			4822	4823	Variation 4838	4847	4843
1	GM17477	Screw	8	8	8	8	8
2	GM17446	Bushing	6		4	4	
2	GM17451	Bushing		6			4
3	GM17610	Rod, connecting	4		4	4	
3	GM17499	Rod, connecting		4			4
4	223479	Ring, snap	8		8	8	
4	223452	Ring, snap		8			8
5	GM17450	Pin, piston	6				
5	360114	Pin, piston		6			4
5	GM46667	Pin, piston			4	4	
6	GM32821	Kit, piston ring	4	4			4
6	GM50056	Kit, piston ring			4	4	
7	X	Not sold separately	4	4	4	4	4
8	X	Not sold separately	4	4	4	4	4
9	223419	Kit, O-ring	4	4	4	4	4
10	GM32820	Kit, piston liner	4				
10	GM32823	Kit, piston liner		4			
10	GM50055	Kit, piston liner			4	4	
10	GM91837	Kit, piston liner					4
11	360053	Bearing, standard	4	4	4	4	4
11	360054	Bearing, 0.25 mm undersize	4	4	4	4	4

X Not sold separately.

Group 20: Piston and Connecting Rod, continued

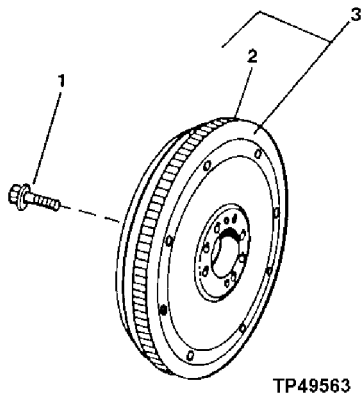


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Item	Part Number	Description	Quantity		
			Variation		
			4806	4814	4815
1	GM63834	Piston ring kit std.	4		
1	GM63899	Piston ring kit std.		4	5
1	GM63853	Piston ring kit, 0.25 OS	4		
1	GM63913	Piston ring kit, 0.25 OS		4	5
1	GM63854	Piston ring kit, 0.50 OS	4		
1	GM63914	Piston ring kit, 0.50 OS		4	5
2	GM63704	Snap ring	8	8	8
3	GM63717	Piston pin	4	4	5
4	GM63842	Piston replacement kit std.	4		
4	GM63915	Piston replacement kit std.		4	5
4	GM63852	Piston replacement kit, 0.25 OS	4		
4	GM63916	Piston replacement kit, 0.25 OS		4	5
4	GM63854	Piston replacement kit, 0.50 OS	4		
4	GM63917	Piston replacement kit, 0.50 OS		4	5
5	GM63713	Screw, M10 x 49	8	8	10
6	GM63801	Connecting rod	4	4	5
7	GM63835	Bearing kit std.	4	4	5
7	GM63856	Bearing kit, 0.25 US		4	5

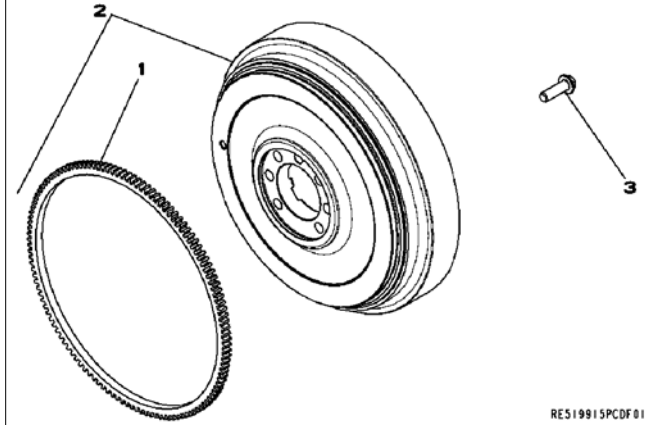
Group 21: Flywheel



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Item	Part Number	Description	Quantity	
			Variation	
			1503	1509
1	360581	Bolt	4	4
2	223750	Gear, 129 teeth	1	1
3	GM17501	Flywheel	1	
3	GM23840	Flywheel		1

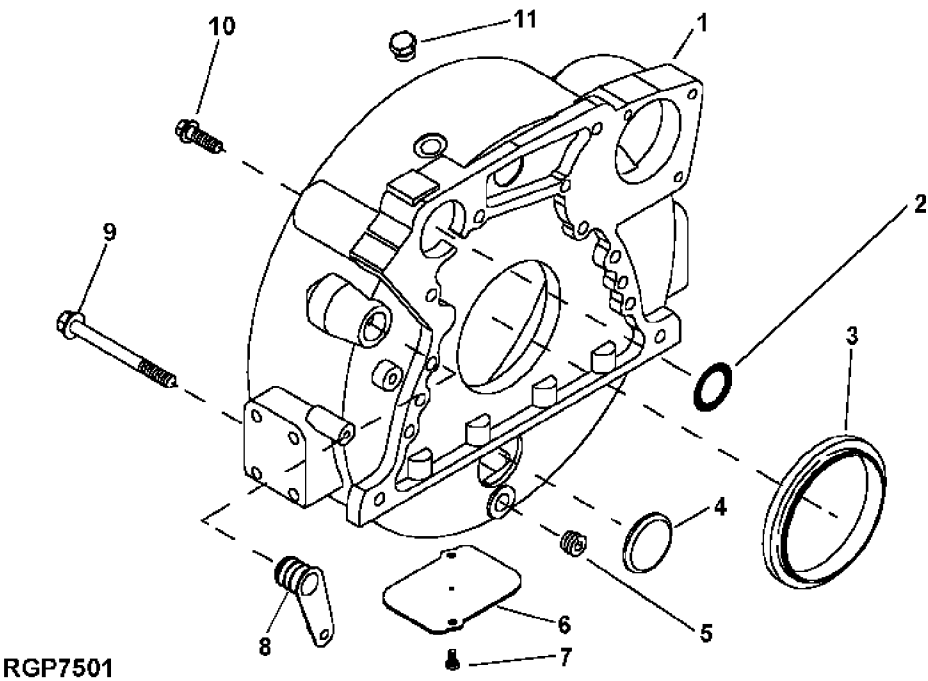


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Item	Part Number	Description	Quantity
			Variation
			1508
1	GM63759	Ring gear	1
2	GM63826	Flywheel	1
3	GM63818	Screw, M12 x 38	6

Group 22: Flywheel Housing

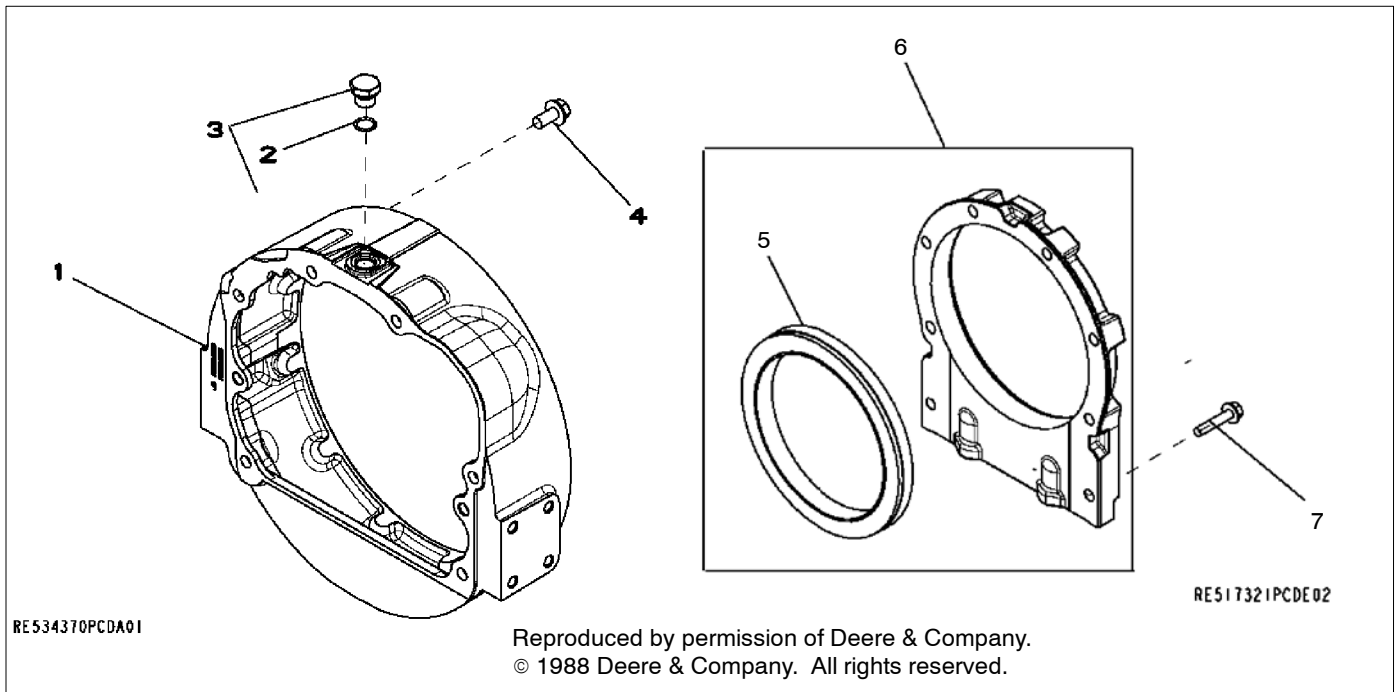


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Item	Part Number	Description	Quantity	
			Variation	
			1406	1404
1	GM24539	Housing, flywheel (order item 2 also)	1	
1	GM91838	Housing		1
2	GM24540	O-ring	1	1
3	223583	Seal	1	1
4	GM17553	Cap	1	1
5	GM15403	Plug, pipe, 1/2 in.	1	1
6	GM17449	Plate	1	1
7	#	Screw, cap	2	2
8	GM17453	Plug 360149	1	
8	360149	Plug		1
9	#	Screw, M12 x 50	4	4
10	360581	Bolt	8	8
11	GM17468	Fitting	1	1

Common hardware; procure locally.

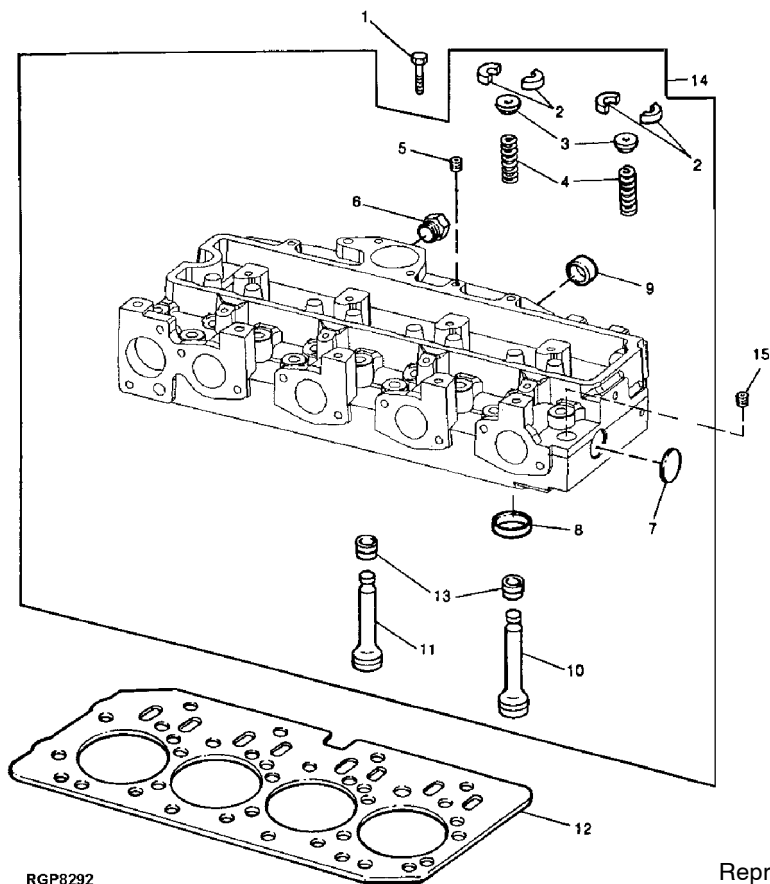
Group 22: Flywheel Housing, continued



Item	Part Number	Description	Quantity			
			Variation			
			1401	1406B	1408	1415
1	GM63793	Housing	1			
1	GM63740	Housing		1		
1	GM64245	Housing			1	
1	GM63792	Housing				1
2	360180	O-ring, 17.3 x 2.2 mm				1
3	360078	Plug, drain				1
4	#	Screw, M12 x 25	6	6	6	6
5	223583	Seal	1	1	1	1
6	GM64246	Seal kit	1	1	1	1
7	#	Screw, M6 x 30	8	8	8	8
—	GM63705	Sealant	AR	AR	AR	AR

Common hardware; procure locally.

Group 23: Cylinder Head



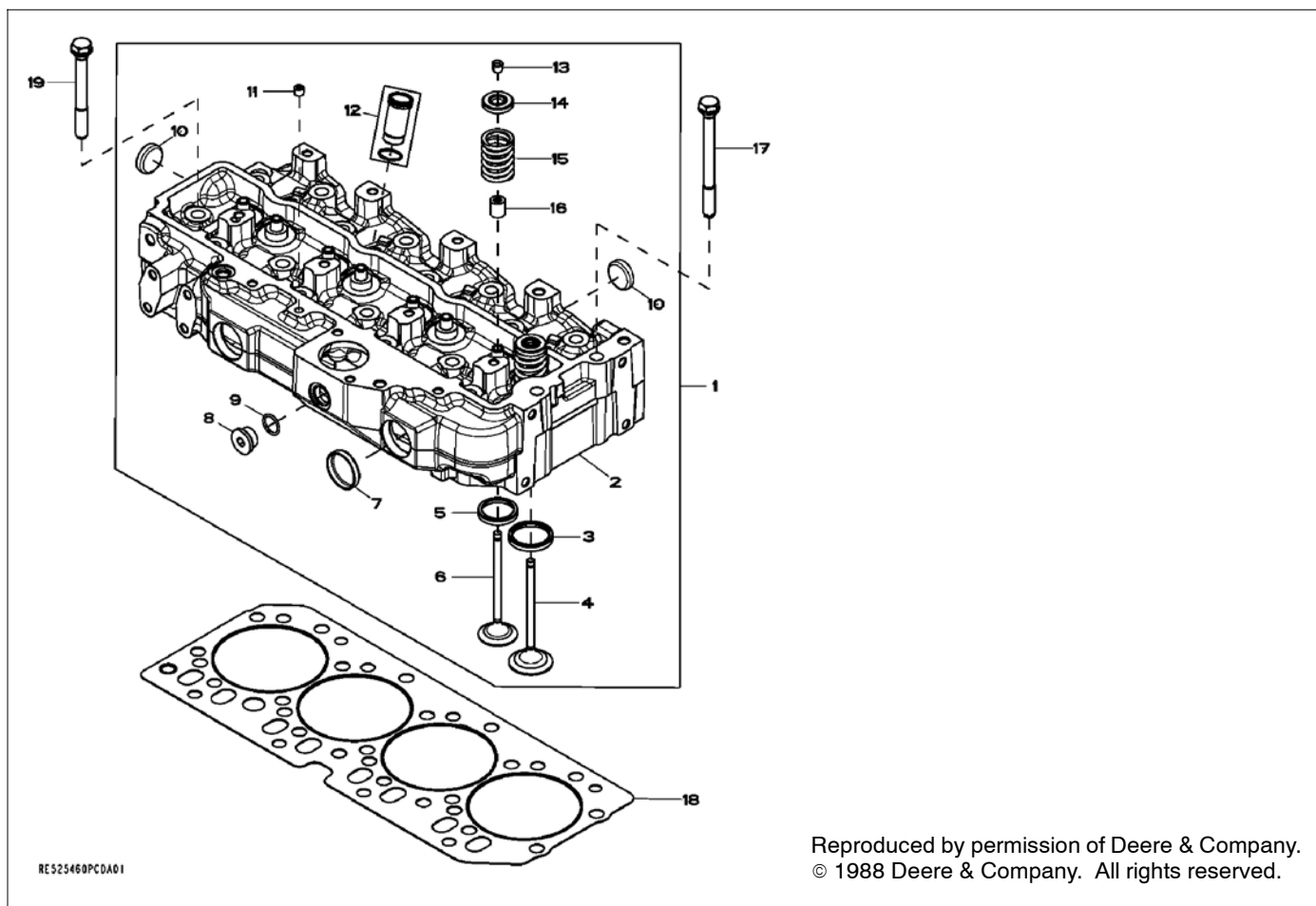
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Item	Part Number	Description	Quantity
			Variation 5102
1	224164	Screw, cap	18
2	224184	Lock	16
3	224176	Rotator	8
4	223455	Spring	8
5	224268	Plug, pipe	1
6	360174	Fitting	1
6	223746	O-ring	1
7	223448	Cap	1
8	GM21433	Insert, intake valve seat	4
8	GM21434	Insert, exhaust valve seat	4
9	224157	Cap	2
10	224156	Valve, exhaust, standard	4
10	224153	Valve, exhaust, 0.015 in., 0.381 mm, oversize	AR
10	224151	Valve, exhaust, 0.030 in., 0.762 mm, oversize	AR
11	224168	Valve, intake, standard	4
11	224193	Valve, intake, 0.015 in., 0.381 mm, oversize	AR
11	224197	Valve, intake, 0.030 in., 0.762 mm, oversize	AR
12	360531	Gasket, cylinder head	1
13	224243	Seal	8
14	360532	Head, cylinder	1
15	224268	Plug, pipe	1

AR As Required

Group 23: Cylinder Head, continued

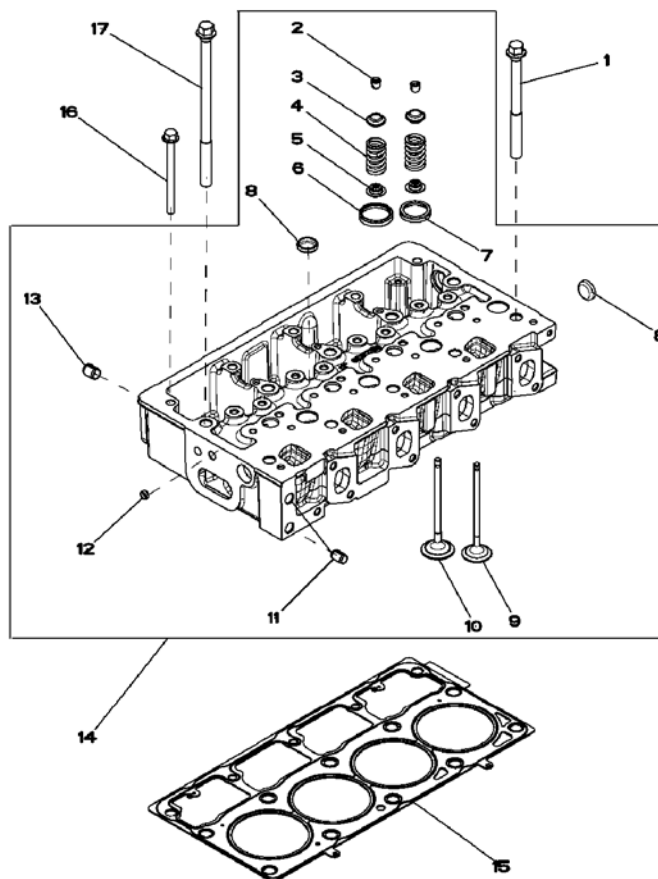


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Item	Part Number	Description	Quantity Variation	
			5122	5130
1	GM52529	Cylinder head kit	1	
1	GM77164	Cylinder head kit		1
2	—	Not sold separately	1	1
3	GM21433	Insert, valve	4	
3	224162	Insert, valve		4
4	224168	Intake valve, standard	4	4
4	224193	Intake valve, 0.381 mm OS	AR	AR
4	224197	Intake valve, 0.762 mm OS	AR	AR
5	GM21434	Insert, valve	4	
5	224166	Insert, valve		4
6	224156	Exhaust valve, std.	4	4
6	224153	Exhaust valve, 0.381 mm	AR	AR
6	224151	Exhaust valve, 0.762 mm	AR	AR
7	224157	Cap	2	3
8	360174	Fitting	1	1
9	223746	O-ring	1	1
10	223448	Cap	1	1
11	—	Not used		
12	GM50051	Sleeve	4	4
13	224184	Lock	16	16
14	224176	Rotator	8	8
15	223455	Spring	8	8
16	GM50076	Seal	8	
16	224243	Seal		8
17	GM46671	Screw, cylinder head	2	2
18	360531	Gasket, cylinder head	1	1
19	224164	Cap screw	16	16

AR As Required

Group 23: Cylinder Head, continued



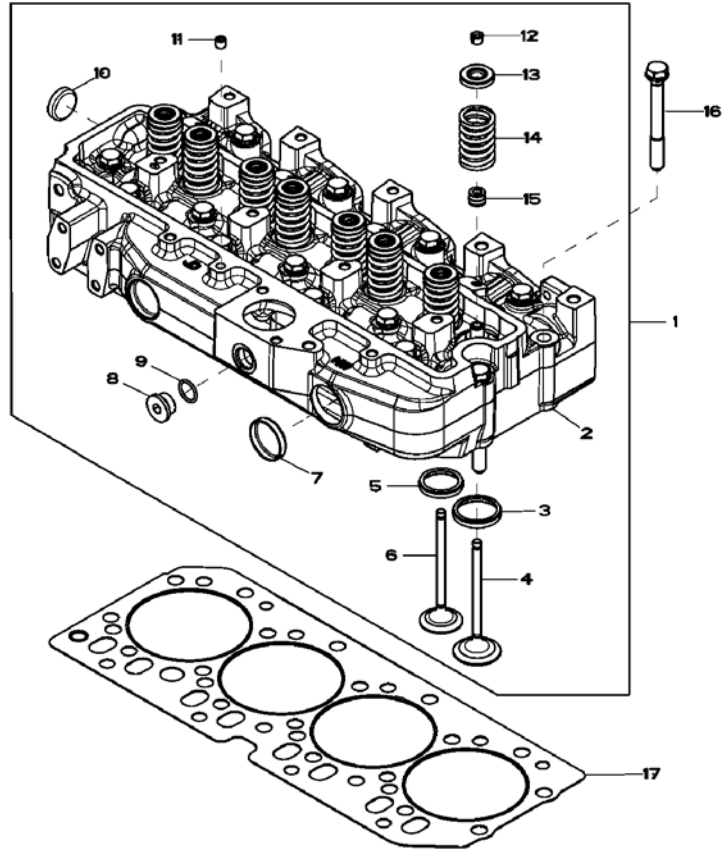
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Item	Part Number	Description	Quantity		
			Variation		
			5101	5105	5106
1	—	Screw (order bolt kit)	2	2	2
2	GM46672	Retainer	16	16	20
3	GM46673	Cap	8	8	10
4	GM63776	Spring		8	10
4	GM63710	Spring	8		
5	GM63892	Seal		8	10
5	GM63836	Seal	8		
6	GM63799	Valve seat insert		4	5
7	GM63800	Valve seat insert		4	5
8	GM63925	Plug	6	5	6
8	360517	Plug	5		
9	GM63712	Exhaust valve	4	4	5
10	GM63711	Intake valve	4	4	5
11	#	Spring pin, 11 x 16 mm	2	2	2
12	GM52777	Plug		1	1
13	#	Spring pin, 13 x 16 mm	2	2	2
14	GM63909	Cylinder head		1	
14	GM63806	Cylinder head	1		
14	GM63910	Cylinder head			1
15	GM63895	Engine cylinder head gasket, standard	1		
15	GM63878	Engine cylinder head gasket, standard		1	
15	GM63877	Engine cylinder head gasket, standard			1
15	GM63903	Engine cylinder head gasket, 0.25, 0.50 OS	1		
15	GM63904	Engine cylinder head gasket, 0.25, 0.50 OS		1	
15	GM63905	Engine cylinder head gasket, 0.25, 0.50 OS			1
16	#	Screw, M8 x 100	5	5	6
17	GM63747	Screw	8	8	10
—	GM63838	Bolt kit (includes items 1, 16, 17)	1	1	
—	GM63839	Bolt kit (includes items 1, 16, 17)			1

Common hardware; procure locally.

Group 23: Cylinder Head, continued



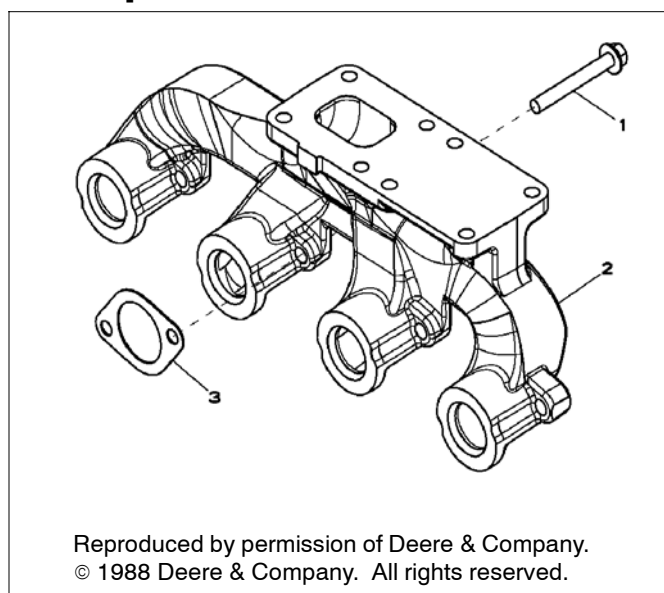
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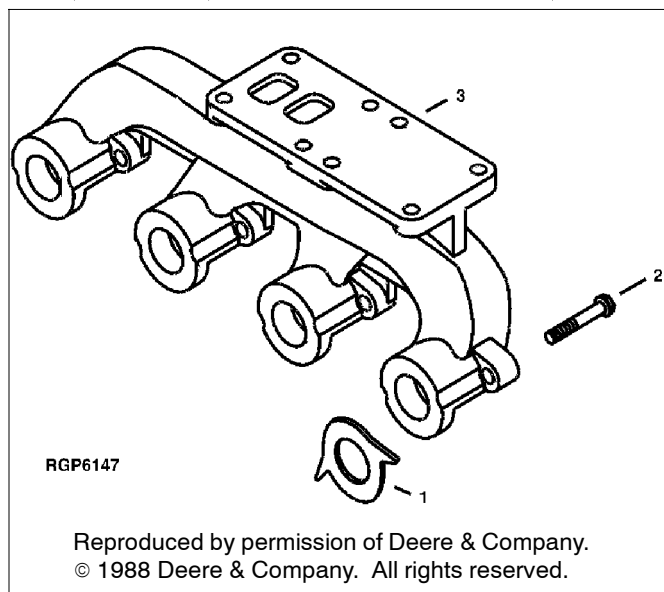
Item	Part Number	Description	Quantity	Item	Part Number	Description	Quantity
			Variation 5127				Variation 5127
1	GM91839	Cylinder Head	1	7	224157	Plug	2
2	-	Cylinder Head	1	8	360174	Fitting Plug	1
3	GM21433	Insert, valve	4	9	223746	O-Ring	1
4	224168	Intake Valve	4	10	223448	Plug	1
4	224193	Intake Valve 0.381 mm; OS	AR	11	GM18873	Pipe Plug	AR
4	224197	Intake Valve 0.762 mm; OS	AR	12	224184	Retainer	16
5	GM21434	Insert, valve	4	13	224176	Rotator	8
6	224156	Exhaust Valve	4	14	223455	Spring	8
6	224153	Exh. Valve 0.381 mm; OS	AR	15	224243	Cap Screw	8
6	224151	Exh. Valve 0.762 mm; OS	AR	16	224164	Cap Screw	18
				17	360531	Cylinder Head Gasket	1

Common hardware; procure locally.

Group 24: Exhaust Manifold

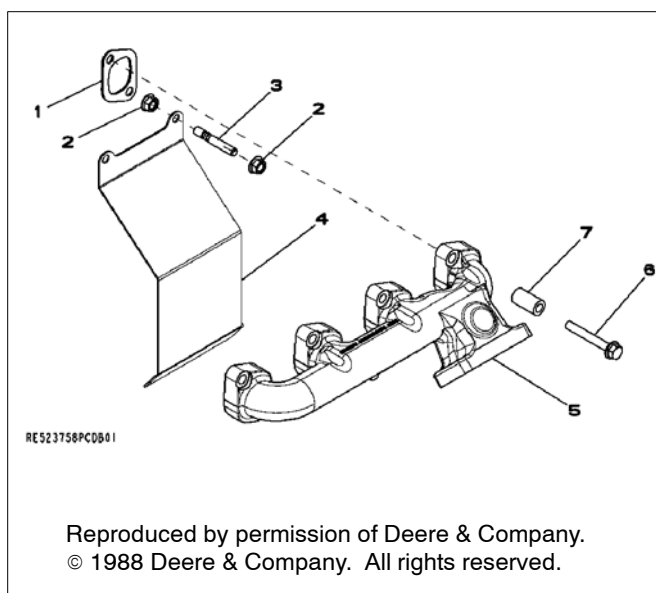


Item	Part Number	Description	Quantity	
			Variation	2802
1	#	SCREW, HEX CAP M10 x 80mm	8	
2	GM91840	Exhaust Manifold	1	
3	GM46685	Gasket	4	



Item	Part Number	Description	Quantity	
			Variation	2803 2888
1	223547	Gasket	4	
1	GM49855	Gasket		4
2	#	Screw, M10 x 80	8	
2	GM49914	Screw, M10 x 80		8
3	360534	Manifold, exh. (4045TF275 eng.)	1	
3	GM32803	Manifold, exh. (4045TF270 eng.)	1	
3	GM52530	Manifold, exhaust		1

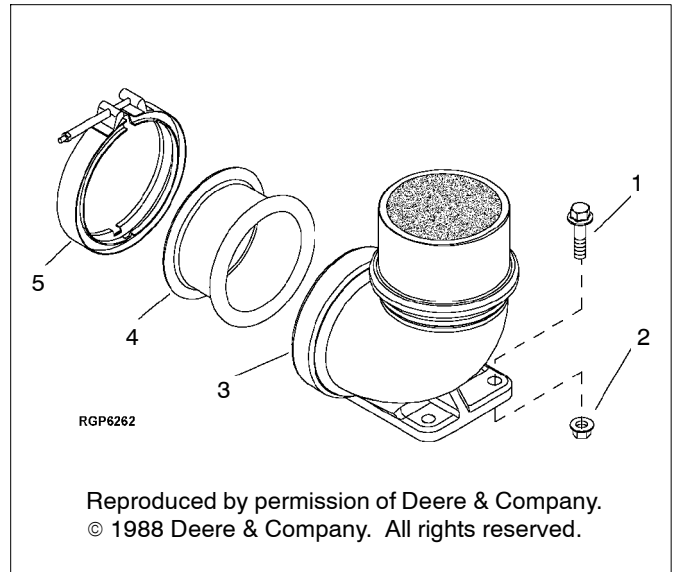
Common hardware; procure locally.



Item	Part Number	Description	Quantity	
			Variation	2806 2807
1	GM63737	Gasket	4	5
2	#	Flange nut, M8	4	5
3	GM63770	Stud	2	3
4	GM63771	Heat shield	1	1
5	GM63768	Exhaust manifold	1	
5	GM63772	Exhaust manifold		1
6	#	Screw, M8 x 60	6	7
7	GM63790	Spacer	6	7

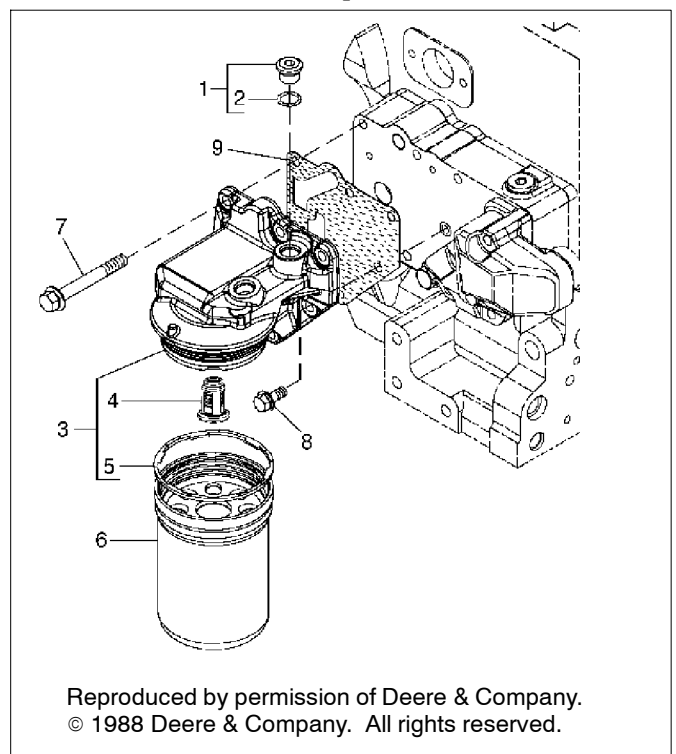
Group 25: Exhaust Elbow

Item	Part Number	Description	Quantity	
			Variation	
			6401	6438
1	#	Screw, cap, M10 x 40	4	2
1	GM49897	Stud (not shown)		2
2	#	Nut, flange, M10	4	4
3	360117	Elbow, pipe	1	
3	GM49928	Elbow, pipe		1
4	223891	Adapter	1	1
5	224132	Clamp	1	1



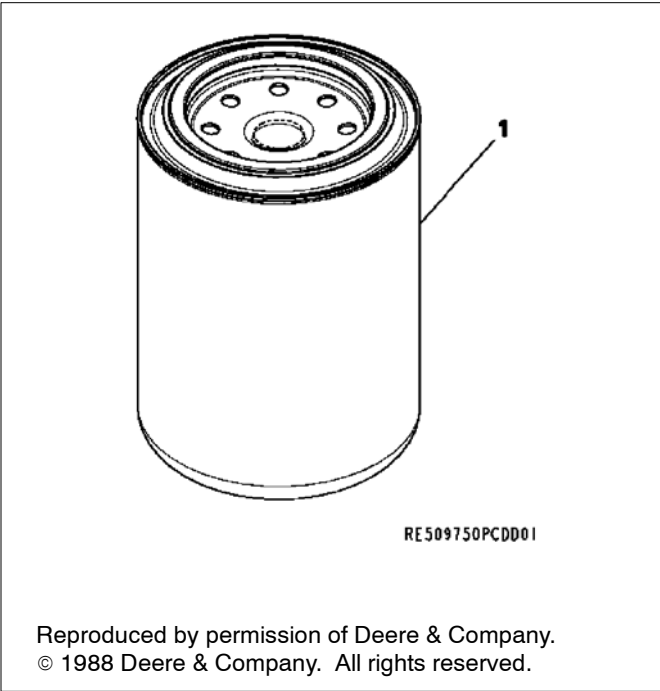
Group 26: Oil Filter

Item	Part Number	Description	Quantity
			Variation
			8842
1	GM24535	Plug	1
2	360557	O-ring	1
3	GM32808	Filter head	1
4	GM32807	Valve	1
5	GM32787	Seal	1
6	GM32809	Filter, oil	1
7	#	Screw, M8 x 65	5
8	GM24536	Screw	1
9	GM24537	Gasket	1



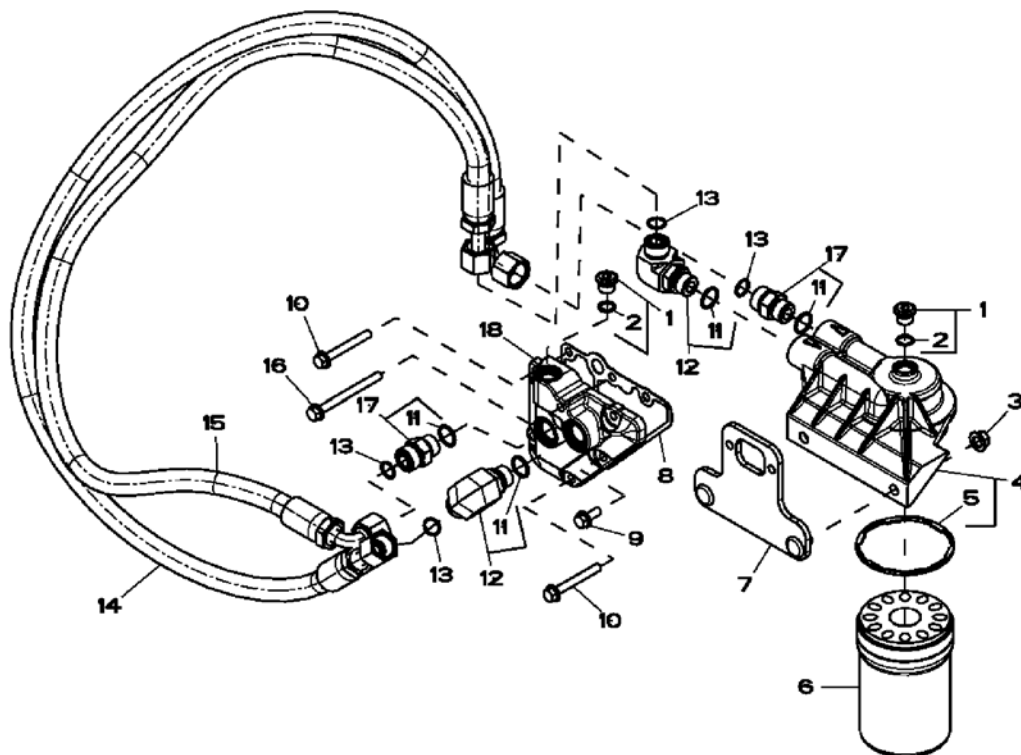
Common hardware; procure locally.

Group 26: Oil Filter, continued



Item	Part Number	Description	Quantity
			Variation 8801
1	GM34935	Filter, oil	1

Group 26: Oil Filter, continued

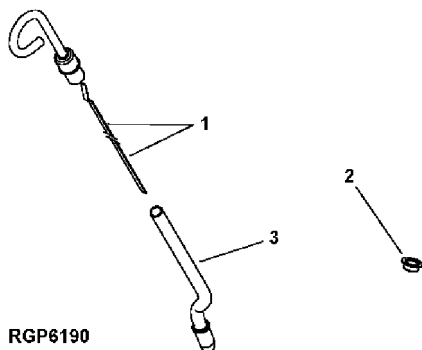


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Item	Part Number	Description	Quantity
			Variation 8854
1	GM24535	Plug	1
2	360557	O-Ring	1
3	GM30375	Flange Nut, M10	2
4	GM91841	Filter Head	1
5	GM32787	Seal	1
6	GM32809	Filter, oil	1
7	GM91842	Bracket	1
8	360133	Gasket	1
9	GM24536	Screw	1

Item	Part Number	Description	Quantity
			Variation 8854
10	#	Screw, M8 X 65	4
11	GM17437	O-ring	1
12	GM91843	Elbow Fitting	1
13	GM91844	O-Ring	1
14	GM91845	Hydraulic Hose	1
15	GM91845	Hydraulic Hose	1
16	#	Screw, M8 X 90	1
17	GM91847	Adapter Fitting	1
18	GM91848	Adapter Fitting	1

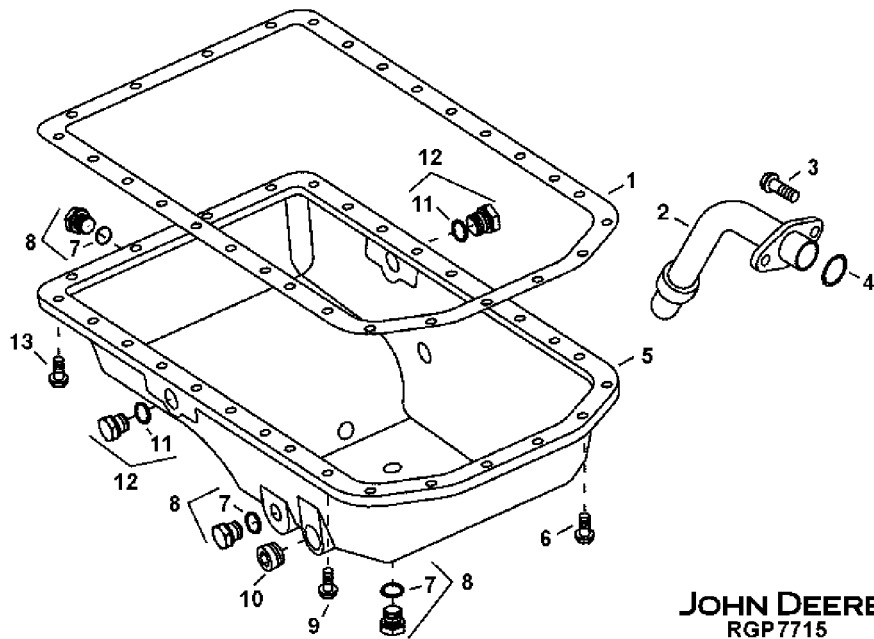
Group 27: Dipstick



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Item	Part Number	Description	Quantity		
			Variation		
			4002	4003	4014
1	360073	Dipstick	1		
1	GM63822	Dipstick		1	
1	GM91849	Dipstick			1
2	GM32789	Plug	1		1
3	GM32788	Tube, dipstick	1		
3	GM63791	Tube, dipstick		1	
3	GM71257	Tube, dipstick			1

Group 28: Oil Pan

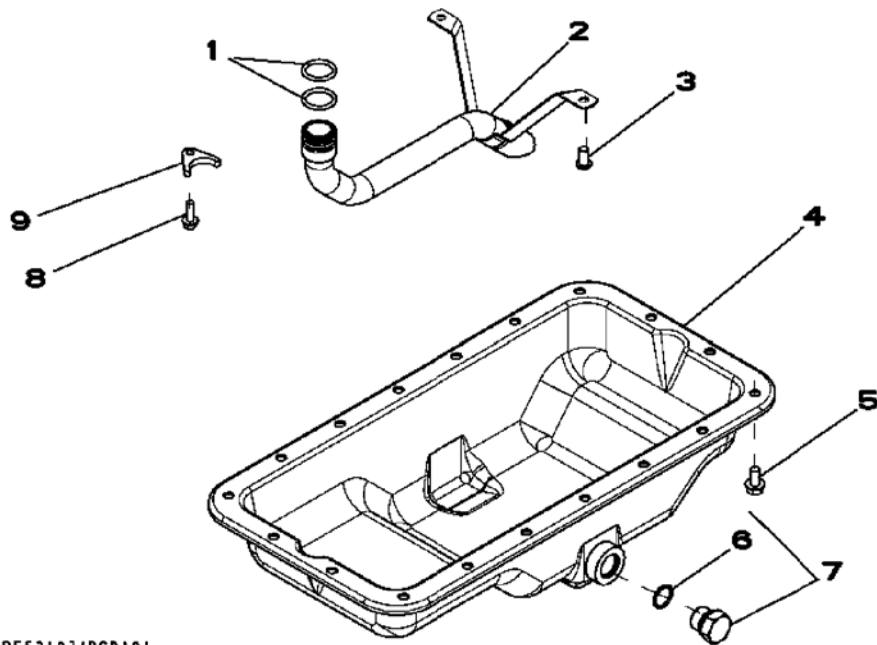


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Item	Part Number	Description	Quantity		
			1904	Variation 1923	19AE
1	360527	Gasket, oil pan	1	1	
1	GM50621	Gasket, oil pan			1
2	360523	Intake, oil pump	1		1
2	GM32846	Intake, oil pump		1	
3	#	Screw, M8 x 100	2	2	2
4	224035	O-ring	1	1	1
5	360529	Pan, oil	1		
5	GM32780	Pan, oil		1	
5	GM51536	Pan, oil			1
6	#	Screw, M8 x 30	6	6	6
7	360176	O-ring	3	1	3
8	360014	Plug	3	1	3
9	#	Screw, M8 x 25	18	18	
9	#	Screw, M8 x 16			18
10	#	Plug, pipe, 3/4 in.	1		1
11	GM17437	O-ring	2	2	2
12	GM17498	Fitting	2	2	2
13	#	Screw, M8 x 45	4	4	
13	#	Screw, M8 x 16			4

Common hardware; procure locally.

Group 28: Oil Pan, continued



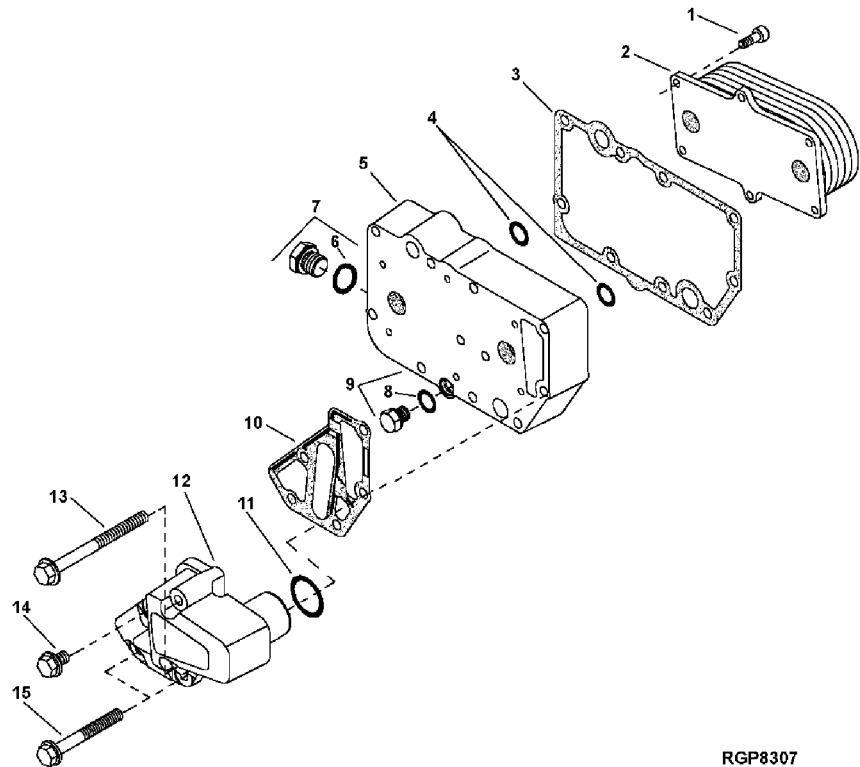
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Item	Part Number	Description	Quantity	
			Variation	
			1902	1924
1	223763	O-ring	2	2
2	GM63886	Tube	1	
2	GM63885	Tube		1
3	#	Screw	2	2
4	GM63814	Oil pan	1	
4	GM63815	Oil pan		1
5	#	Screw, M8 x 16	20	18
6	GM17437	O-ring	1	1
7	GM17498	Fitting	1	1
8	#	Screw, M6 x 20	1	1
9	GM63727	Clamp	1	1
—	GM63705	Sealant	AR	AR

Common hardware; procure locally.

Group 29: Oil Cooler



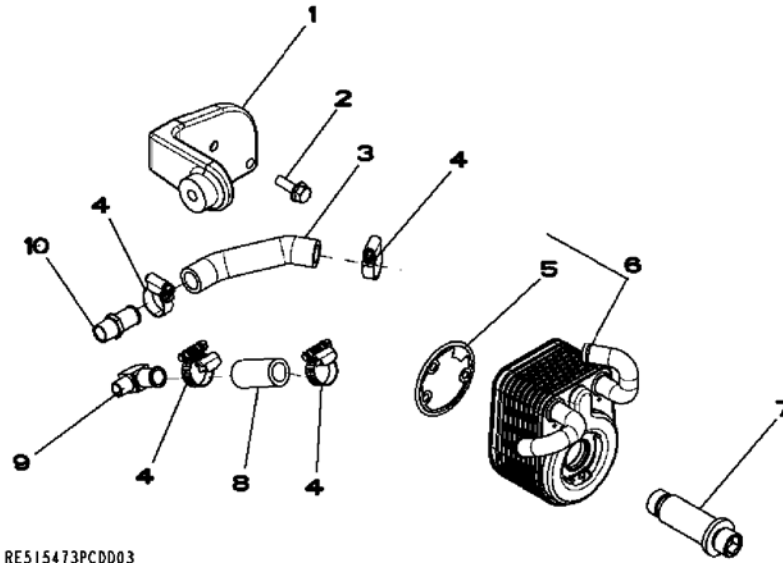
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Item	Part Number	Description	Quantity	
			Variation	
			5901	5902
1	#	Screw, M6 x 16	6	6
2	GM17531	Cooler, oil	1	
2	275503	Cooler, oil		1
3	360130	Gasket	1	1
4	360170	O-ring	2	2
5	360127	Housing	1	1
6	360176	O-ring	1	1
7	360014	Plug (includes O-ring)	1	1
8	360178	O-ring	1	1
9	360015	Plug (includes O-ring)	1	1
10	GM17479	Gasket	1	1
11	GM24543	O-ring	1	1
12	GM32790	Adapter	1	
12	GM49933	Adapter		1
13	#	Screw, M8 x 100	2	2
14	#	Screw, M8 x 20	1	1
15	#	Screw, M8 x 65	2	2

Common hardware; procure locally.

Group 29: Oil Cooler, continued



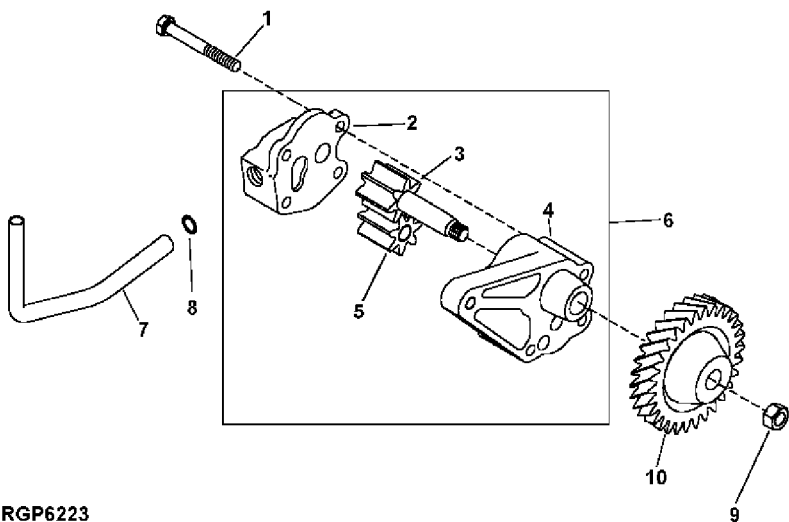
RE515473PCDD03

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Item	Part Number	Description	Quantity
			Variation 5903
1	GM63729	Bracket	1
2	#	Screw, M8 x 25	1
3	GM63735	Hose, inlet	1
4	GM21409	Clamp, hose	4
5	GM63732	Gasket	1
6	GM63817	Oil cooler	1
7	GM63731	Threaded nipple	1
8	GM63928	Hose, outlet, 52 mm	AR
9	GM63733	Fitting, hose	1
10	GM63736	Fitting, hose	1

Common hardware; procure locally.

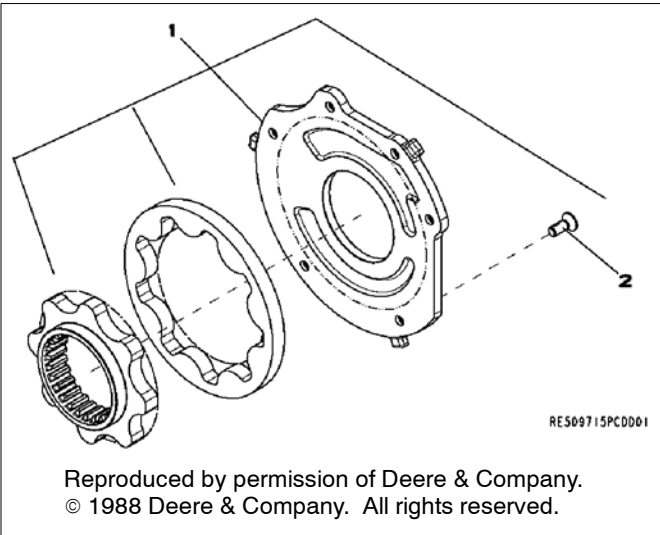
Group 30: Oil Pump



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Item	Part Number	Description	Quantity	
			Variation	
			5001	5002
1	#	Screw, M8 x 65	2	2
2	—	Cover (not sold separately, order item 6)	1	1
3	—	Gear (not sold separately, order item 6)	1	1
4	—	Housing (not sold separately, order item 6)	1	1
5	—	Gear (not sold separately, order item 6)	1	1
6	360028	Pump, oil	1	1
7	360104	Tube	1	1
8	336458	O-ring	1	1
9	#	Nut, M12	1	1
10	360524	Gear, 30 teeth	1	1

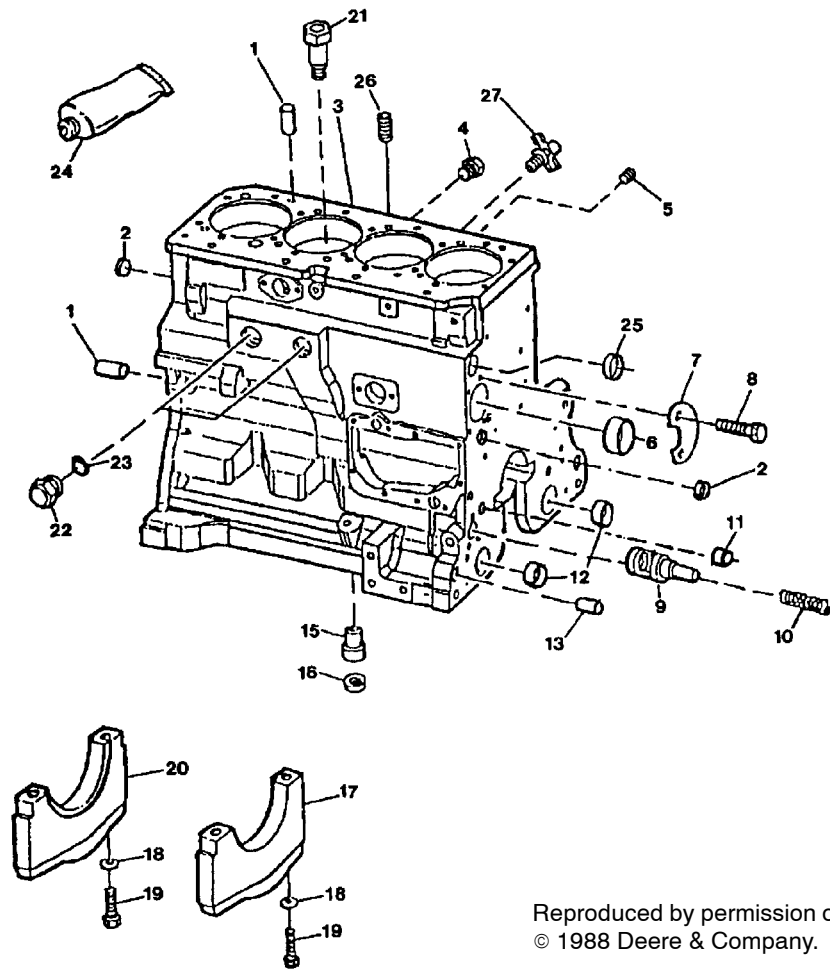
Common hardware; procure locally.



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Item	Part Number	Description	Quantity
			Variation
			5001B
1	—	Oil pump (order complete timing gear cover kit)	1
2	GM63816	Screw	6

Group 31: Cylinder Block

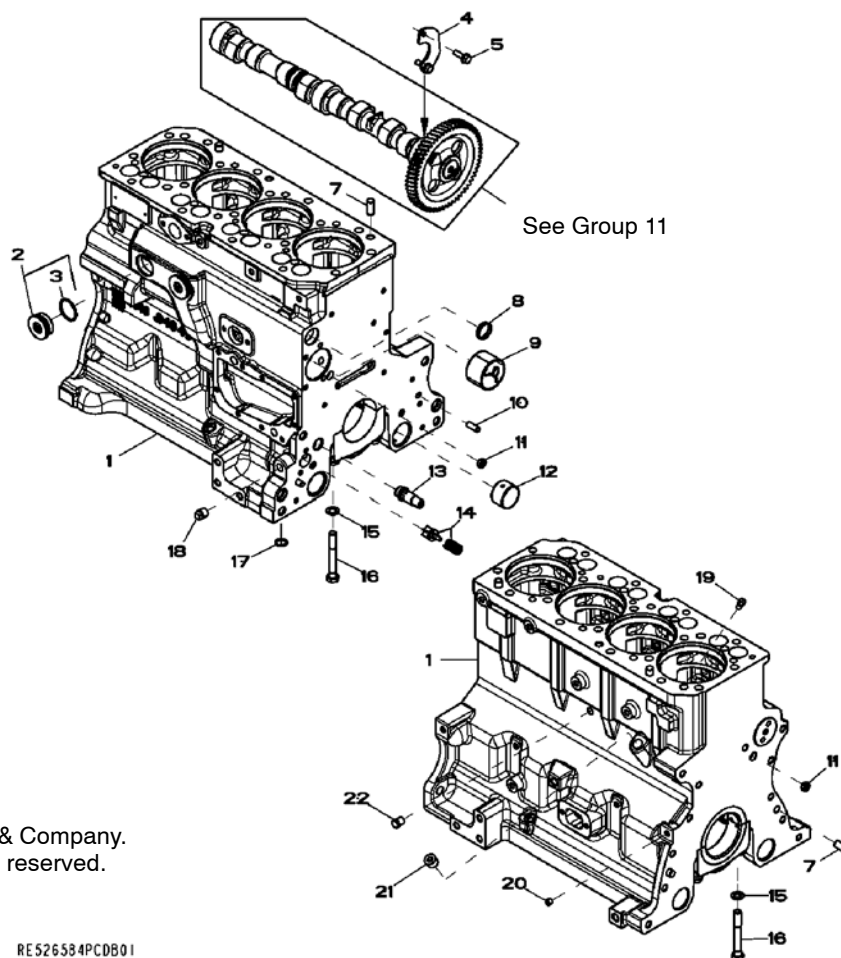


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Item	Part Number	Description	Quantity	
			Variation	
			4614	4616
1	223472	Pin, dowel	4	4
2	360517	Cap	2	2
2	360093	Plug	1	1
3	—	Block, cylinder (see short block)	1	1
4	223802	Plug, pipe	1	1
5	224268	Plug, pipe	5	5
6	352246	Bushing	1	1
7	360154	Plate, thrust	1	1
8	#	Screw, M8x 25	2	2
9	360103	Valve, engine oil bypass	1	1
10	360080	Spring	1	1
11	GM32810	Valve, bleed	1	1
12	350519	Bushing	6	6
13	352064	Pin, dowel	2	2
15	360087	Bushing	1	1
16	223512	O-ring	1	1
17	360084	Cap, main bearing	4	4
18	224089	Washer	10	10
19	223639	Screw, cap	10	10
20	360151	Cap, main thrust bearing	1	1
21	360146	Jet	4	4
22	GM32824	Plug	2	2
23	223988	O-ring	2	2
24	360173	Gasket	1	1
25	360093	Plug	1	1
26	GM15403	Plug, pipe	1	1
27	223435	Valve, drain	1	1

Common hardware; procure locally.

Group 31: Cylinder Block, continued



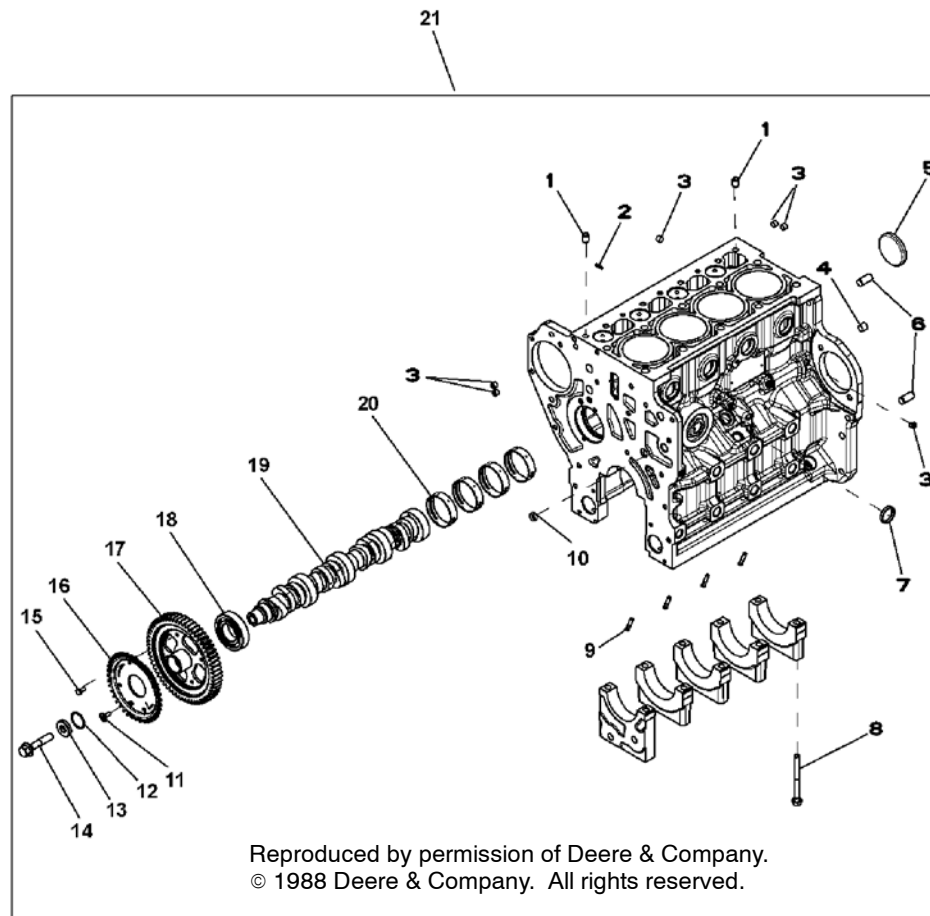
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RE526584PCDB01

Item	Part Number	Description	Quantity		
			4643	Variation 4659	4651
1	—	Block, cylinder (see short block)	1	1	1
2	GM32824	Plug	2	2	2
3	223988	O-ring	1	1	1
4	360154	Plate, thrust	1	1	1
5	#	Screw, M8 x 25	2	2	2
7	223472	Pin, dowel	4	4	4
8	360093	Plug	1	1	1
9	352246	Bushing	1	1	1
10	352064	Pin, dowel	1	1	2
11	360517	Cap	1	1	2
12	360519	Bushing	6	6	6
13	GM32810	Valve	1	1	1
14	GM21420	Kit, valve	1	1	1
15	224089	Washer	10	10	10
16	223639	Cap screw	10	10	10
17	336458	O-ring	1	1	1
18	#	Plug, pipe, 3/8 in.-18 NPT	1	1	1
19	360146	Jet	4	4	4
20	224268	Plug, pipe	5	5	
20	GM18873	Plug, pipe			5
21	#	Plug, pipe, 1/2 in.-14 NPT	1	1	1
22	#	Plug, pipe, 1/4 in.-18 NPT	1	1	
22	GM77165	Elbow fitting (not shown)	1		
22	223435	Drain valve			1

Common hardware; procure locally.

Group 31: Cylinder Block, continued

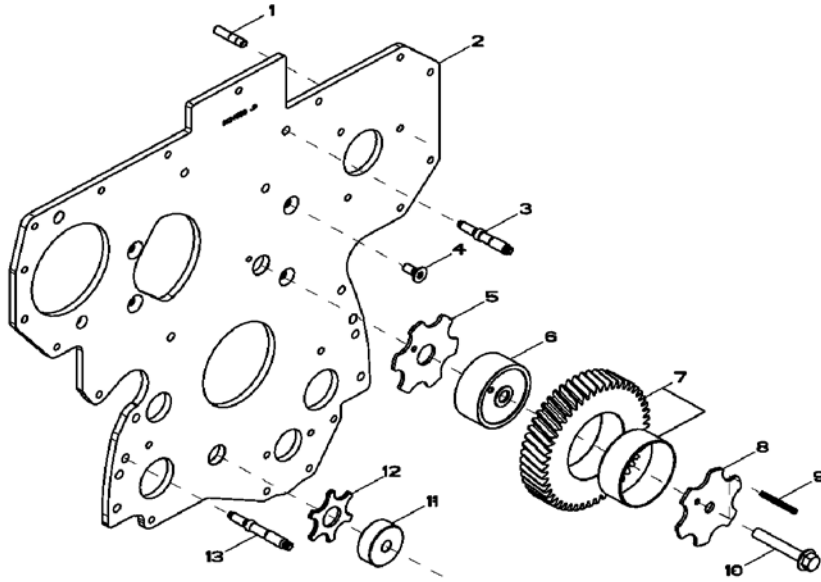


RE533671RGP01

Item	Part Number	Description	Quantity Variation		
			4604	4618	4619
1	#	Spring pin, 11 x 16 mm	2	2	2
2	#	Spring pin, 4 x 16 mm	5	4	5
3	#	Plug, pipe, 3.175 mm (1/8 in.)	24	23	27
4	#	Plug, pipe, 6.350 mm (1/4 in.)	1	1	1
5	GM63723	Plug	1	1	1
6	223472	Pin, dowel	2	2	2
7	360093	Plug	6	6	7
8	GM63725	Screw	10	10	12
9	GM63724	Orifice	4	4	4
10	360517	Cap	1	1	1
11	#	Screw, M6 x 16		2	2
12	GM63728	Shim		1	1
13	GM63748	Washer		1	1
14	GM63752	Screw		1	1
15	#	Cap screw, M6 x 12	2	4	4
16	GM63778	Wheel		1	1
17	GM63783	Gear, spur		1	1
18	GM63821	Bearing, ball	1	1	1
19	GM63749	Camshaft	1		
20	GM63907	Camshaft		1	
20	GM63721	Bushing	4	4	4
21	—	Block, cylinder (see short block)	1		
21	GM63912	Block, cylinder		1	
21	GM63906	Block, cylinder			1

Common hardware; procure locally.

Group 32: Front Plate

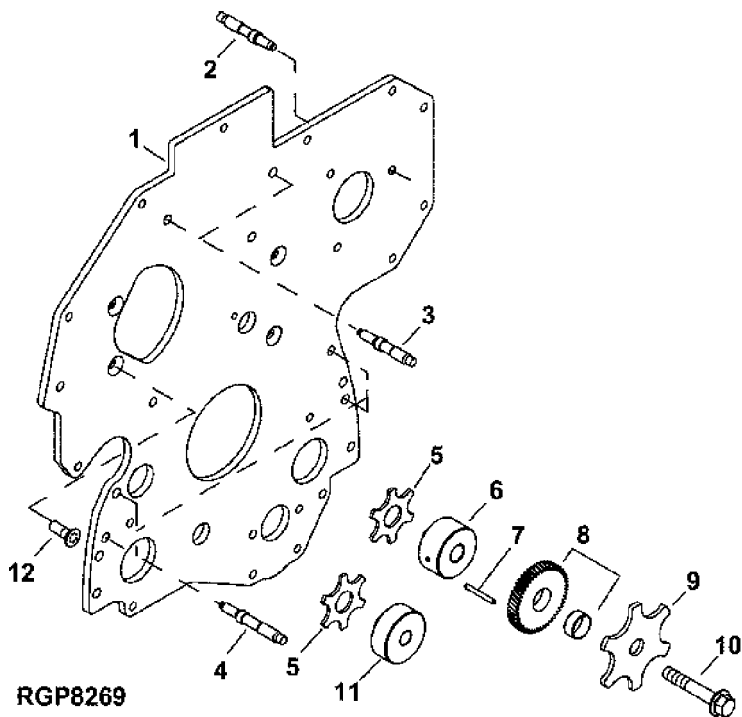


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Item	Part Number	Description	Quantity
			Variation 3602
1	360092	Stud	3
2	GM17461	Plate	1
3	360514	Stud	2
4	360516	Screw	4
5	360113	Lock Washer	1
6	360101	Shaft	1
7	GM50613	Gear	1
8	360147	Thrust Washer	1
9	360179	Spring Pine	1
10	#	Screw, M10 X 65	1
11	360083	Shaft	1
12	336446	Thrust Washer	1
13	360140	Stud	4
-	GM50612	Sealant	1

Common hardware; procure locally.

Group 32: Front Plate, continued



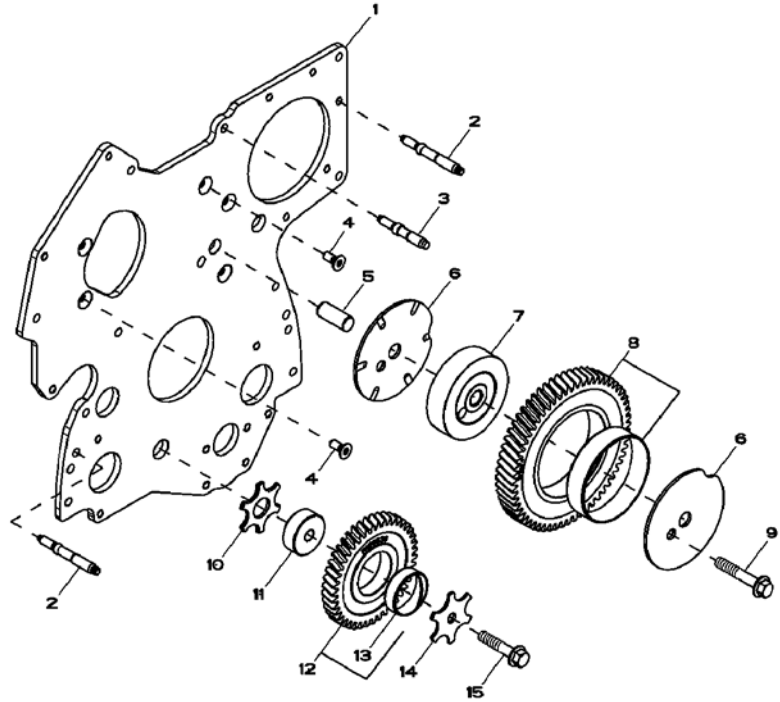
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RGP8269

Item	Part Number	Description	Quantity
			Variation 3618
1	GM23829	Plate, front	1
2	360092	Stud	3
3	360514	Stud	2
4	360140	Stud	4
5	336446	Washer, thrust	2
6	360101	Shaft, upper	1
7	360179	Pin, spring	1
8	360020	Gear	1
9	360147	Washer, thrust	1
10	#	Screw	1
11	360083	Shaft, lower	1
12	360516	Screw	4

Common hardware; procure locally.

Group 32: Front Plate, continued

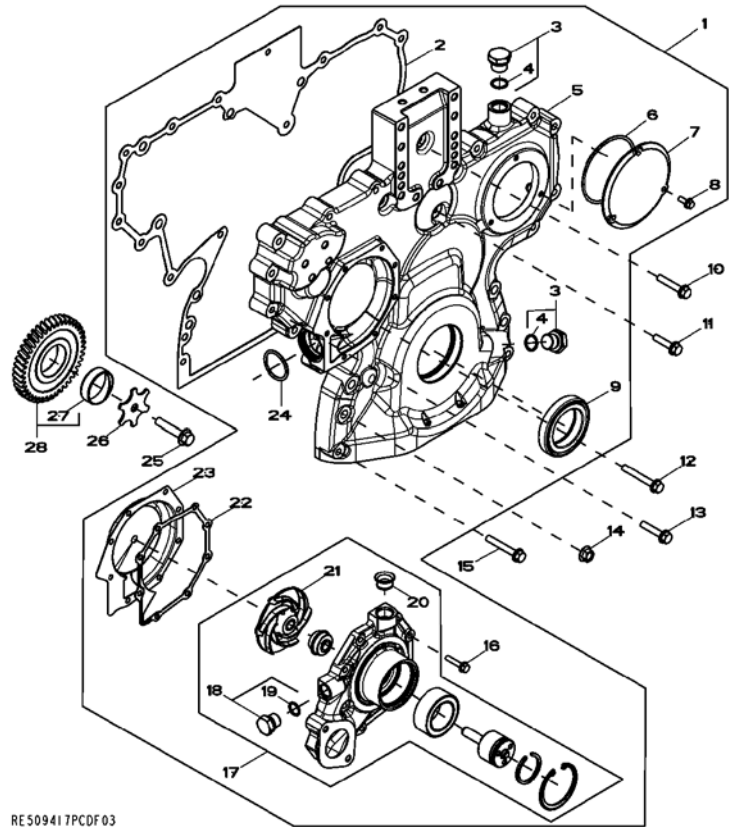


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Item	Part Number	Description	Quantity
			Variation 3612
1	GM46690	Plate	1
2	GM52531	Stud, 84mm	7
3	360514	Stud, 84mm	2
4	360516	Screw, M8 x 20	5
5	GM46693	Pin, dowel	1
6	GM46691	Washer, lock	2
7	GM46692	Shaft, upper	1
8	GM46694	Gear	1
9	#	Screw, M10 x 60	1
10	336446	Washer, thrust	1
11	360083	Shaft	1
12	360021	Gear	1
13	360082	Bushing	1
14	360148	Washer, thrust	1
15	#	Screw, M10 x 50	1

Common hardware; procure locally.

Group 33: Timing Gear Cover



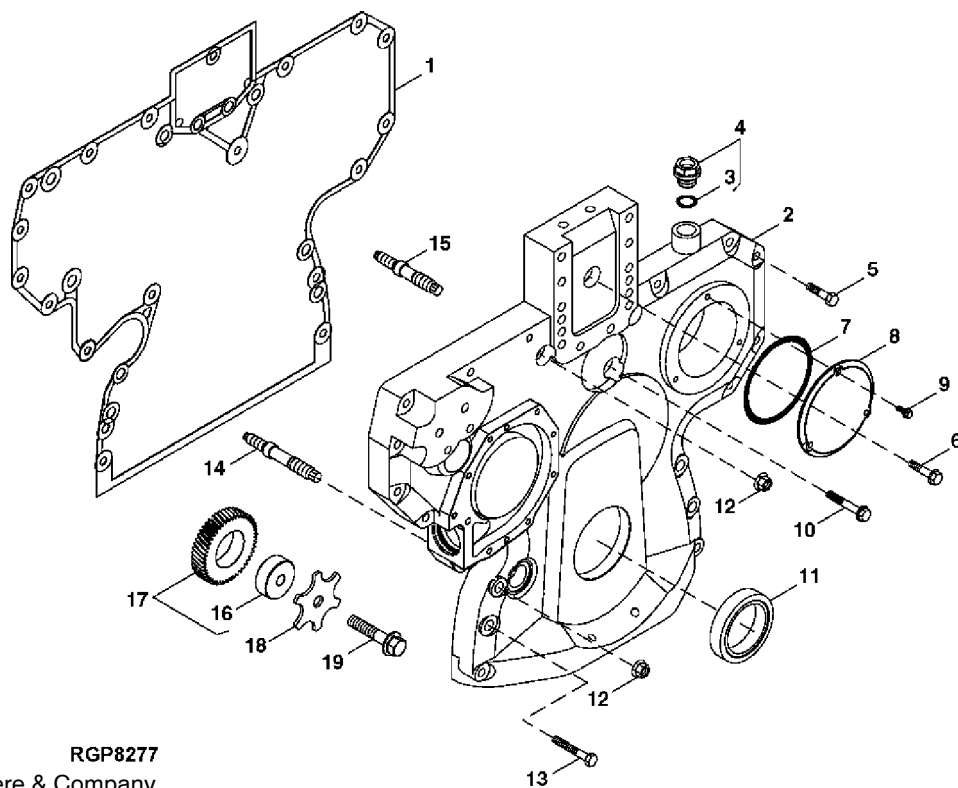
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RE 509417PCDF03

Item	Part Number	Description	Quantity
			Variation 4428
1	GM91851	Kit	1
2	GM60527	Gasket	1
3	360078	Fitting	1
4	360180	O-Ring	1
5	-	Cover	1
6	360107	O-Ring	1
7	360105	Cover	1
8	#	Screw, M6 X 16	3
9	360181	Seal	1
10	360512	Screw	1
11	#	Screw, M8 X 35	1
12	#	Screw, M8 X 60	1
13	#	Screw, M8 X 40	10
14	GM30375	Flange Nut	6
15	#	Screw, M8 X 55	2
16	#	Screw, M6 X 30	8
17	GM29383	Water Pump	1
17	GM81862	Water Pump	1
18	360014	Fitting Plug	1
19	360176	O-Ring	1
20	-	Impeller	1
21	360116	Seal	1
22	360124	Gasket	1
23	360029	Insert	1
24	GM24543	O-Ring	1
25	#	Screw, M10 X 50	1
26	360148	Thrust Washer	1
27	360021	Gear	1
28	360082	Bushing	1

Common hardware; procure locally.

Group 33: Timing Gear Cover, continued



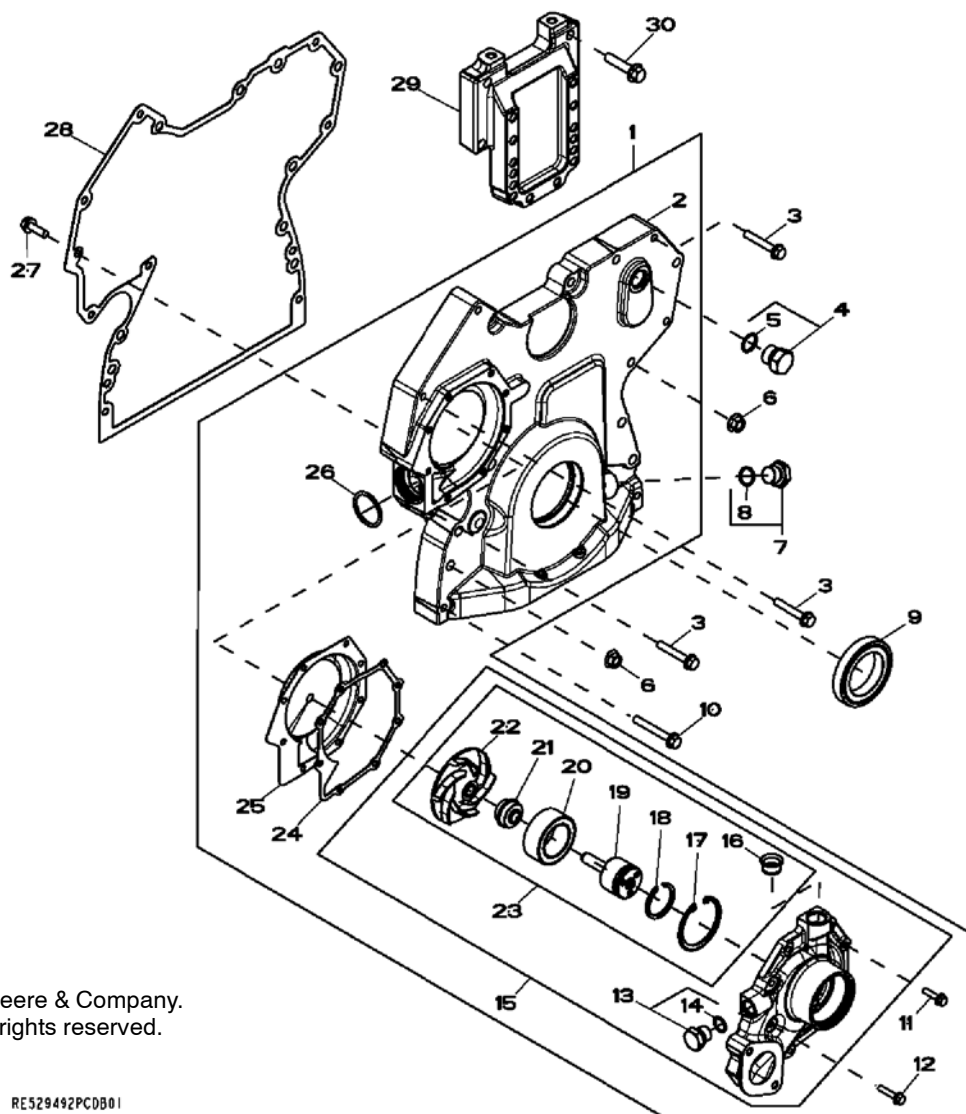
RGP8277

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Item	Part Number	Description	Quantity
			Variation 4429
1	360125	Gasket, gear cover	1
2	GM32796	Cover, gear	1
3	360180	O-ring, 17.3 x 2.2 mm	1
4	GM17508	Plug	1
5	360512	Screw	1
6	#	Screw, M8 x 35	1
6	#	Screw, M8 x 60	1
7	360107	O-ring	1
8	360105	Cover	1
9	#	Screw, M6 x 16	3
10	360512	Screw	2
11	360181	Seal kit	1
12	#	Nut, flange	6
13	#	Screw	2
14	360140	Stud	4
15	360514	Stud	2
16	360082	Bushing	1
17	360021	Gear	1
18	360148	Washer, thrust	1
19	#	Screw	1

Common hardware; procure locally.

Group 33: Timing Gear Cover, continued



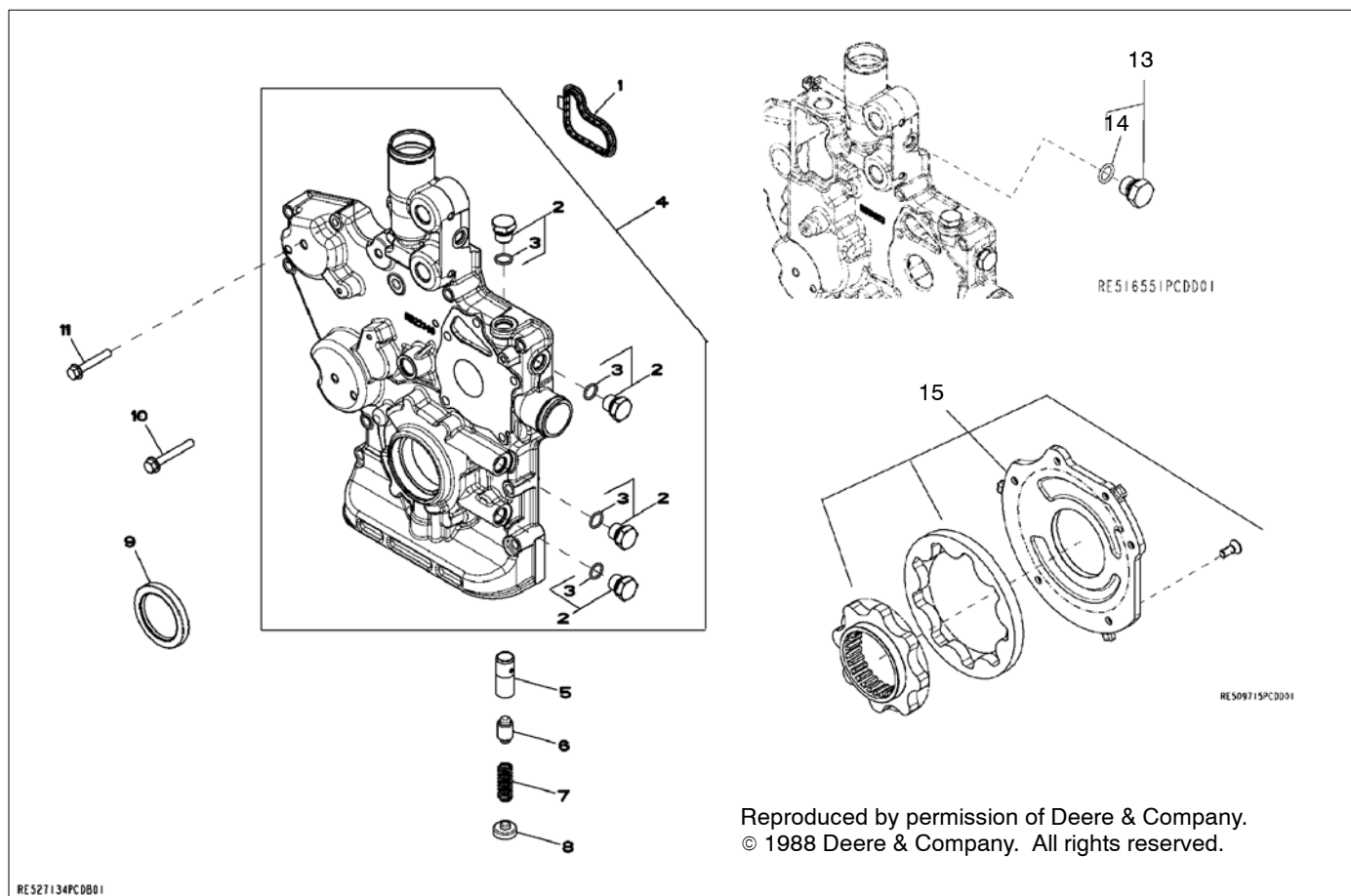
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RE529492PCDB01

Item	Part Number	Description	Quantity	
			Variation 4433	4446
1	GM52532	Cover kit	1	1
2	—	Cover (order item 1)	1	1
3	#	Screw, M8 x 50	5	5
4	GM17498	Fitting	1	1
5	GM17437	O-ring	1	1
6	#	Nut, flange, M10	9	9
7	360078	Plug, drain	1	1
8	360180	O-ring, 17.3 X 2.2 mm	1	1
9	360181	Seal kit	1	1
10	#	Screw, M8 x 60	3	3
26	GM24543	O-ring	1	1
27	#	Screw, M8 x 25	1	1
28	GM52533	Gasket	1	1
29	GM46695	Adapter	1	
29	GM52534	Support		1
30	#	Screw, M10 x 45	4	4

Common hardware; procure locally.

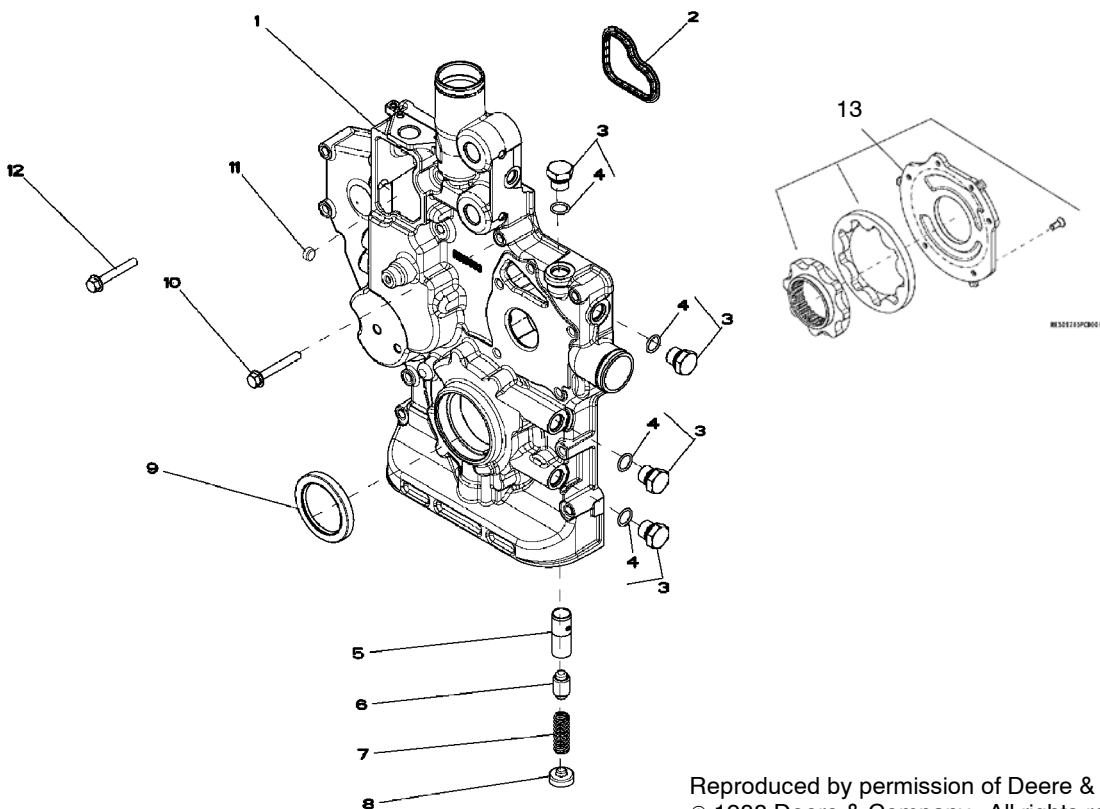
Group 33: Timing Gear Cover, continued



Item	Part Number	Description	Quantity
			Variation 4402
1	—	Seal	14
2	360014	Plug	14
3	360176	O-ring	4
4	GM63880	Cover (include items 2, 3)	1
5	GM63764	Valve seat	1
6	GM63745	Valve	1
7	GM63743	Spring, compression	1
8	GM63742	Plug	1
9	223422	Seal	1
10	GM63706	Screw, M8 x 60	1
11	#	Screw, M8 x 50	11
—	GM63705	Sealant	AR
13	360013	Plug	1
14	GM21508	O-ring	1
15	—	Pump, oil (order item 16)	1
16	GM64247	Cover kit (include items 2, 3, 5-9, 15)	1

Common hardware; procure locally.

Group 33: Timing Gear Cover, continued

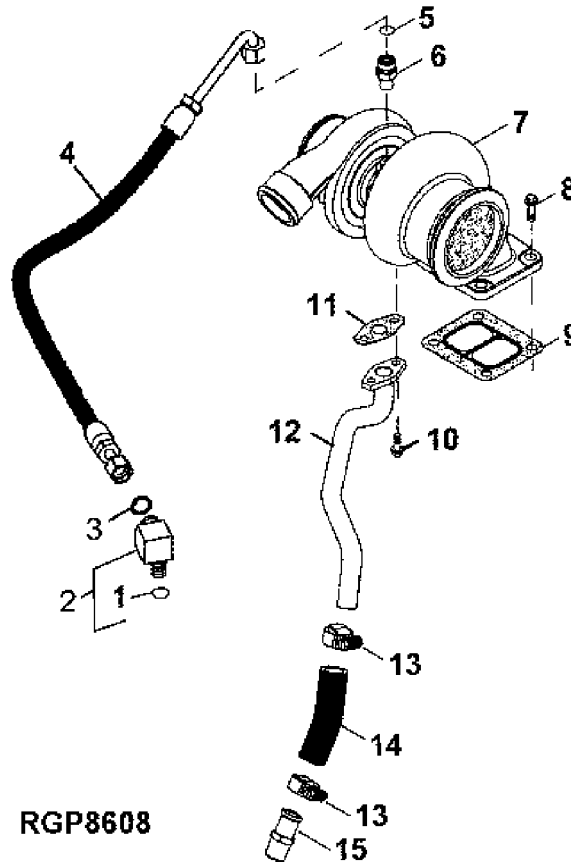


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Item	Part Number	Description	Quantity
			Variation 4401
1	—	Cover (order item 14)	1
2	GM63798	Gasket	1
3	360014	Plug	4
4	360176	O-ring	4
5	GM63764	Seat, valve	1
6	GM63745	Valve	1
7	GM63743	Spring, compression	1
8	GM63742	Plug	1
9	223422	Seal	1
10	GM63706	Screw, M8 x 60	1
11	GM63763	Plug	1
12	#	Screw, M8 x 55	11
—	GM63705	Sealant	AR
13	—	Pump, oil (order item 14)	1
14	GM63860	Cover kit (include items 2-9, 13)	1

Common hardware; procure locally.

Group 34: Turbocharger and Oil Lines



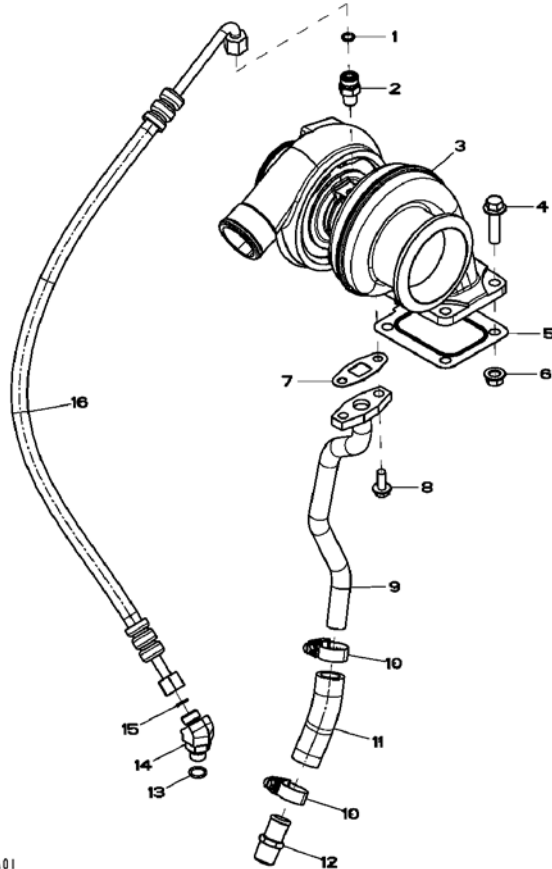
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RGP8608

Item	Part Number	Description	Quantity	
			Variation	
			65HE	65RQ
1	360557	O-ring	1	1
2	360556	Fitting, elbow, 45 deg.	1	1
3	360555	O-ring	1	1
4	GM23842	Oil line	1	
4	GM52537	Oil line		1
5	360165	O-ring	1	1
6	360006	Adapter	1	1
7	GM32838	Turbocharger	1	
7	GM52535	Turbocharger		1
8	#	Screw	4	4
9	360137	Gasket, turbo to exhaust manifold	1	1
10	#	Screw, M8 x 20	2	2
11	360136	Gasket, turbo oil outlet tube	1	1
12	360558	Oil line	1	
12	GM52536	Oil line		1
13	360062	Clamp	2	2
14	224055	Hose	1	
14	GM49926	Hose		1
15	GM21492	Fitting, hose	1	1

Common hardware; procure locally.

Group 34: Turbocharger and Oil Lines, continued



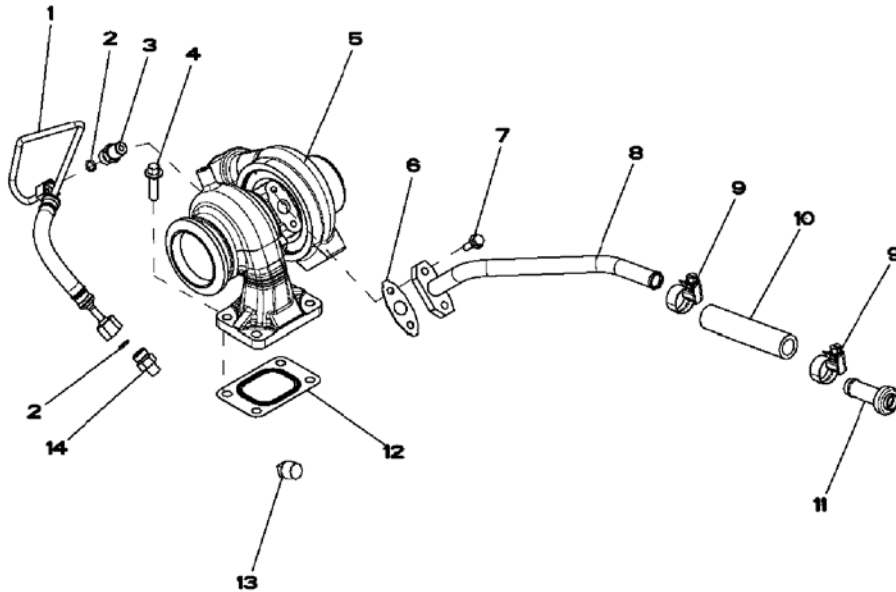
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RES31936PCDA01

Item	Part Number	Description	Quantity
			Variation 65SN
1	360165	O-Ring	1
2	360006	Adapter Fitting	1
3	GM91852	Turbocharger	1
4	#	Screw, M10 X 40	4
5	352809	Gasket	1
6	GM30375	Flange Nut	4
7	360136	Gasket	1
8	#	Screw, M8 X 20	2
9	360558	Oil Line	1
10	360062	Clamp	2
11	GM49926	Hose	1
12	GM21492	Hose Fitting	1
13	360557	O-Ring	1
14	360556	Elbow Fitting	1
15	360555	O-Ring	1
16	GM23842	Hose	1

Common hardware; procure locally.

Group 34: Turbocharger and Oil Lines, continued



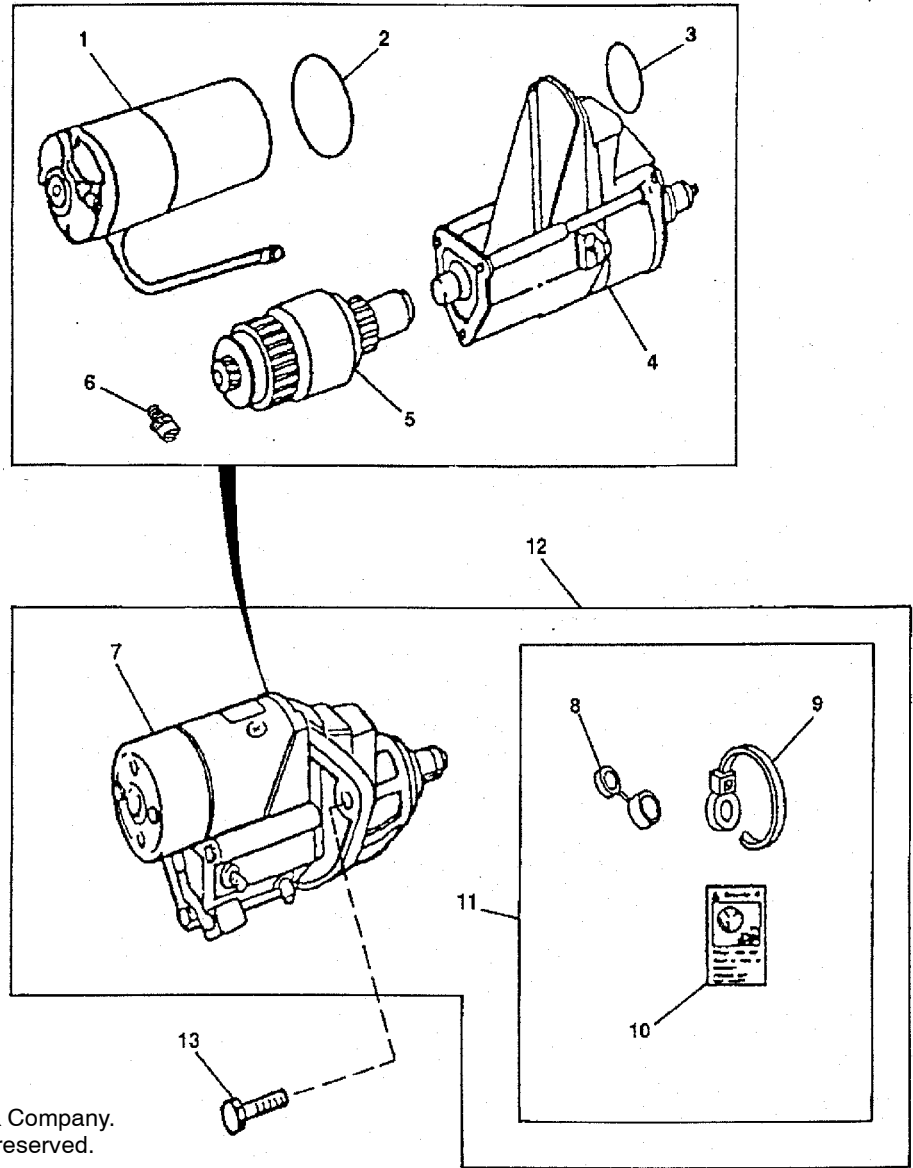
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RGP12604

Item	Part Number	Description	Quantity			
			Variation			
			6526	6553	6567	6571
1	GM63848	Hose, hydraulic	1			
1	GM63889	Hose, hydraulic		1	1	1
2	GM17557	O-ring	1			
2	GM63923	O-ring		2	2	2
3	GM63927	Fitting, adapter		1	1	1
4	GM63746	Screw	4	4	4	4
5	GM21487	Turbocharger	1			
5	GM63898	Turbocharger		1		
5	GM63908	Turbocharger			1	
5	GM87023	Turbocharger				1
6	GM63785	Gasket		1	1	1
7	#	Screw, M6 x 20		2	2	2
8	GM63849	Oil line	1			
8	GM63888	Oil line		1	1	1
9	360062	Clamp	2	2	2	2
10	GM63757	Hose	1	1	1	1
11	GM63851	Tube, oil	1	1	1	1
12	GM63734	Gasket	1	1	1	1
13	#	Plug, pipe, 6.350 mm (1/4 in.)	1		1	
13	#	Plug, pipe, 3/8 in.		1		1
14	GM63926	Fitting, adapter	1	1	1	1

Common hardware; procure locally.

Group 35: Starter Motor

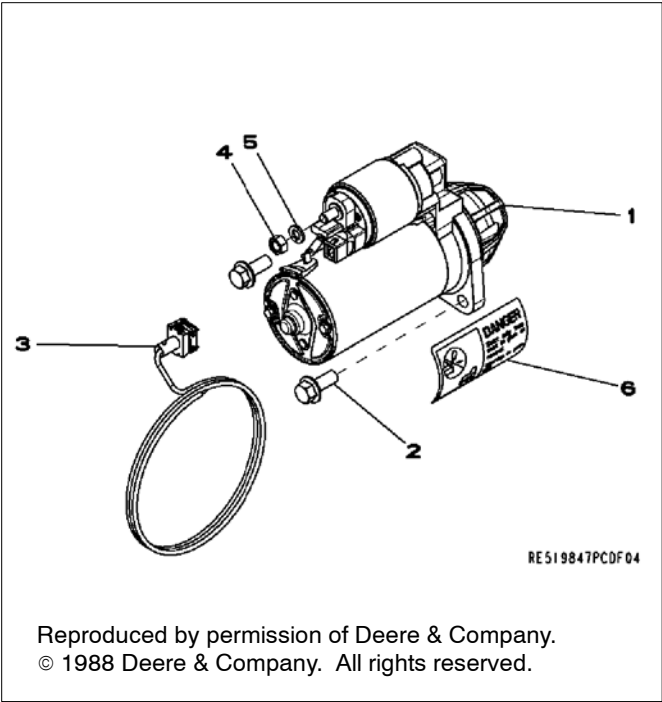
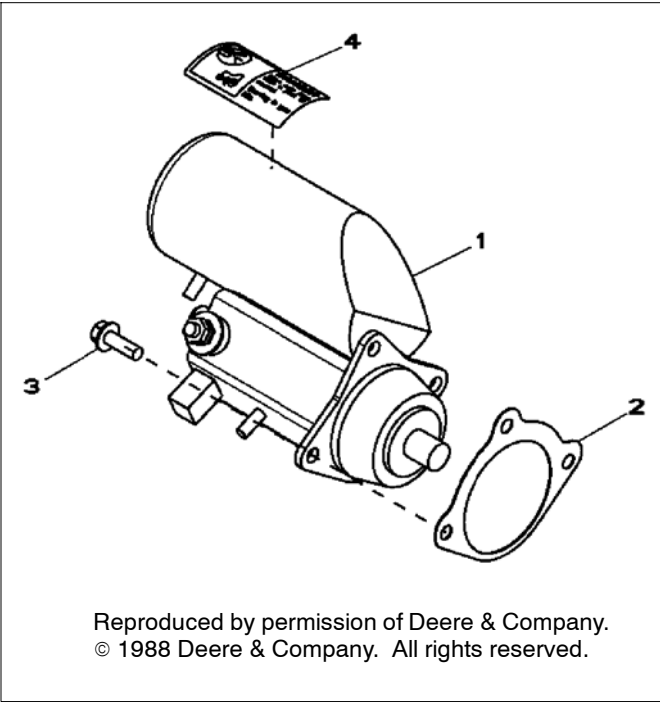


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Item	Part Number	Description	Quantity Variation	
			3006	3041
1	—	Motor	1	1
2	GM17463	Seal	1	1
3	GM17464	O-ring	1	1
4	GM17544	Switch	1	
4	GM17546	Switch		1
5	GM17545	Clutch	1	
5	GM17547	Clutch		1
6	GM18874	Screw, with washer, M5 x 0.8	1	1
7	—	Motor, starter	1	1
8	—	Cover	1	1
9	GM17495	Tie band	1	1
10	GM17554	Label	1	1
11	GM17548	Kit	1	1
12	352390	Starter	1	
12	GM16801	Starter, 24 V		1
13	#	Screw, M10 x 30	3	3

Common hardware; procure locally.

Group 35: Starter Motor, continued

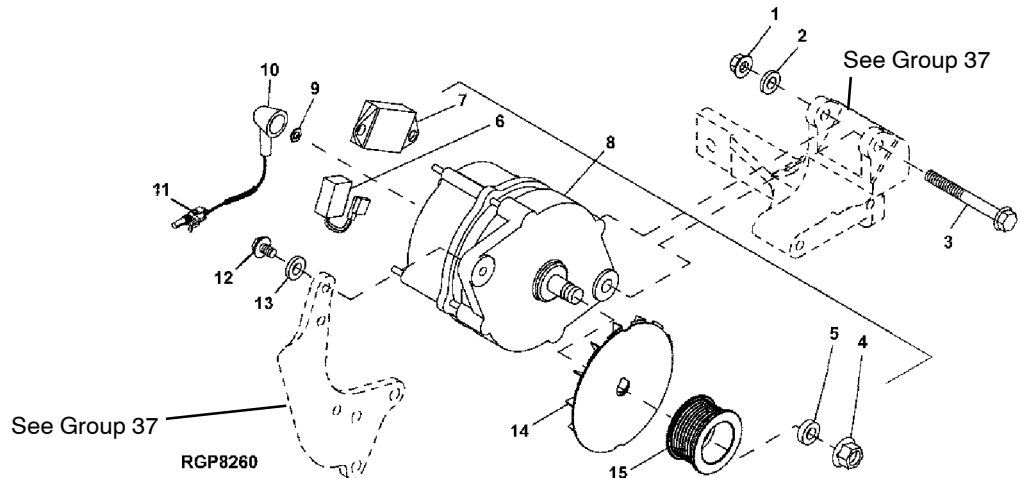


Item	Part Number	Description	Quantity	
			Variation	
			3005	3012
1	GM52538	Starter		1
1	GM23699	Starter	1	
2	223791	Gasket	1	1
3	#	Screw, M10 x 30	2	3
4	GM17554	Label	1	1
5	352140	Switch		1
5	GM29784	Switch	1	
6	352116	Clutch		1
6	GM29785	Clutch	1	

Item	Part Number	Description	Quantity
			Variation 3002
1	GM63811	Motor, starter	1
2	#	Screw, M10 x 25	2
3	GM63862	Harness, wiring	1
4	#	Nut, M8	1
5	#	Washer, lock, 8 mm	1
6	GM17554	Label	1

Common hardware; procure locally.

Group 36: Alternator

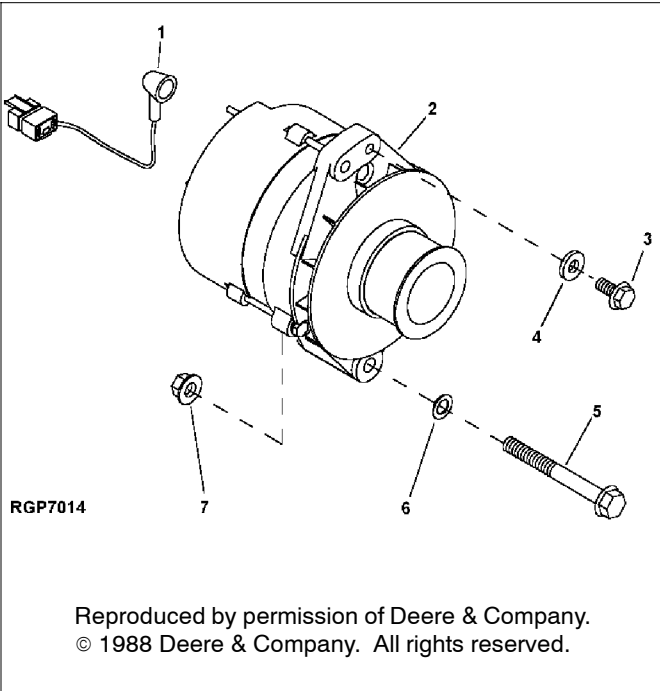


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Item	Part Number	Description	Quantity			
			Variation			
			3104	3109	3138	3142
1	#	Nut, flange	1	1	1	1
2	360166	Washer	1	1	1	1
3	#	Screw	1		1	1
3	GM70547	Screw		1		
4	#	Nut			1	1
5	224331	Washer			1	1
6	360589	Capacitor	1		1	1
6	GM91854	Capacitor		1		
7	360591	Regulator			1	
7	360590	Regulator	1			1
7	GM91855	Regulator		1		
8	360001	Alternator, 12 V			1	
8	GM91853	Alternator, 12 V		1	1	
8	GM17440	Alternator, 24 V				1
9	#	Nut	1	1	1	1
10	GM32923	Harness, wiring			1	1
10	GM50648	Harness, wiring	1			
10	GM17528	Wiring Harness		1		
11	GM32805	Connector	1		1	1
12	#	Screw, M8 x 25	1		1	1
12	#	Screw, M8 X 30		1		
13	GM18719	Washer	1		1	1
13	GM32782	Washer		1		
14	360588	Fan	1		1	1
14	GM52596	Fan		1		
15	GM17485	Pulley, alternator	1		1	1
15	GM52597	Pulley, alternator		1		

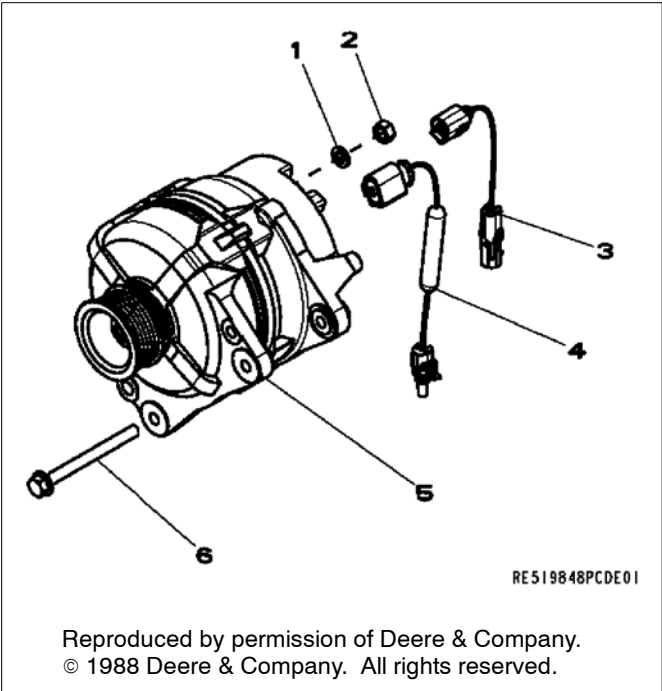
Common hardware; procure locally.

Group 36: Alternator, continued



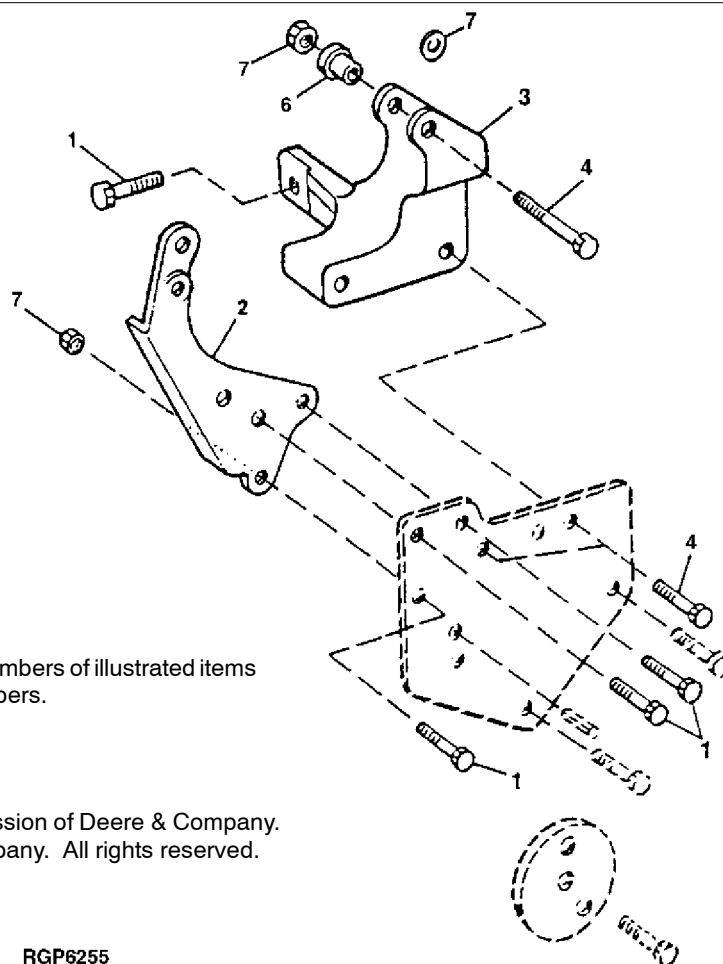
Item	Part Number	Description	Quantity
			Variation 3122
1	GM21518	Harness, wiring	1
2	GM23850	Alternator	1
3	#	Screw, M8 x 25	1
4	GM32782	Washer	1
5	#	Screw, M10 x 100	1
6	360166	Washer, thrust	1
7	#	Nut, M10	1

Common hardware; procure locally.



Item	Part Number	Description	Quantity
			Variation 3102
1	#	Lock washer, 8 mm	1
2	#	Nut, M8	1
3	GM63828	Harness, wiring	1
4	GM63827	Harness, wiring	1
5	GM63881	Alternator	1
6	#	Screw, M8 x 90	2

Group 37: Alternator Mounting



See Group 9 for part numbers of illustrated items without reference numbers.

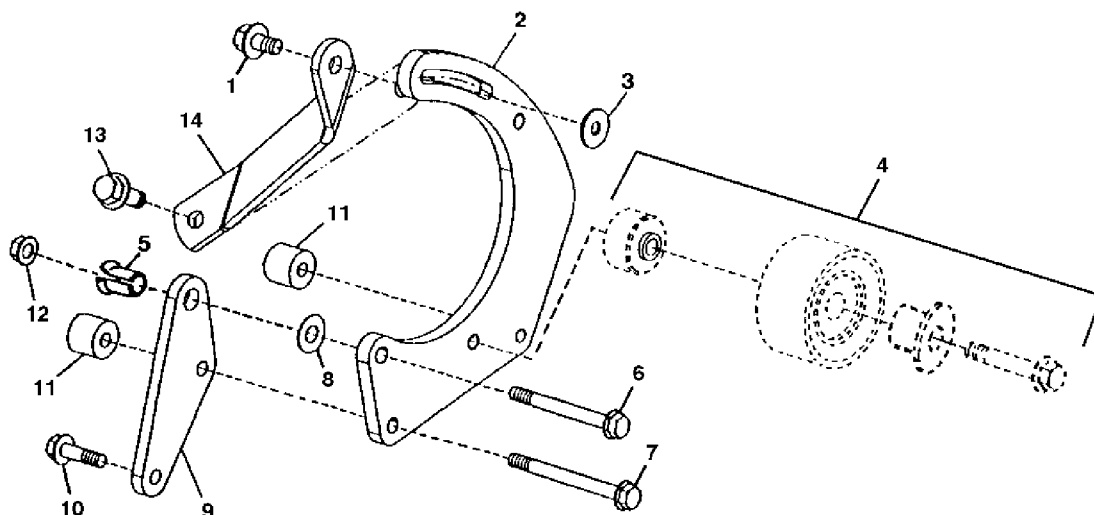
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RGP6255

Item	Part Number	Description	Quantity
			Variation 6201
1	#	Screw, M10 x 30	5
2	GM17455	Strap	1
3	360150	Bracket	1
4	#	Screw, cap, M10 x 25	2
6	360076	Bushing	1
7	#	Nut, flange, M10	3

Common hardware; procure locally.

Group 37: Alternator Mounting, continued



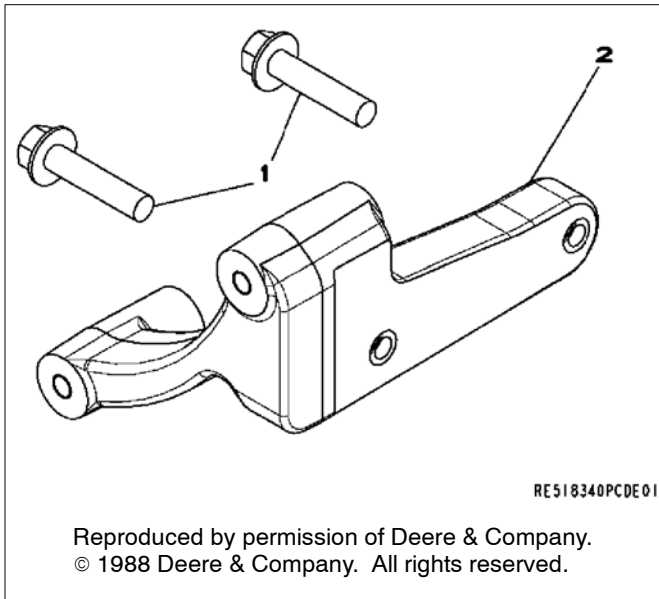
RGP9891

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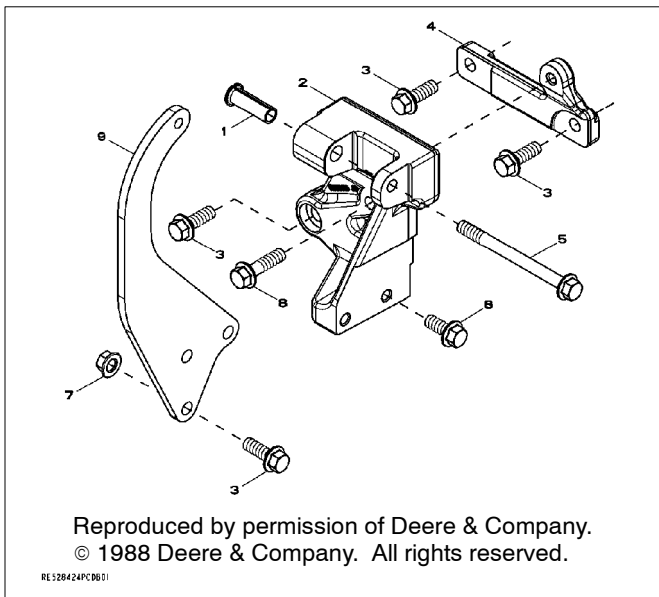
Item	Part Number	Description	Quantity	
			Variation	
			6211	6212
1	#	Screw, M10 x 16	1	1
2	GM32795	Bracket	1	1
3	#	Washer, 8.4 x 24 x 2 mm	1	1
4	—	See Group 9	1	1
5	GM23838	Bushing	1	1
6	#	Screw, M8 x 80	1	1
7	#	Screw, M8 x 100	1	1
8	360166	Washer, thrust	1	1
9	GM23834	Bracket	1	1
10	#	Screw, M8 x 30	1	1
11	GM23837	Spacer	2	2
12	#	Nut, M8	1	1
13	#	Screw, M10 x 25	1	1
14	GM23836	Bracket	1	1

Common hardware; procure locally.

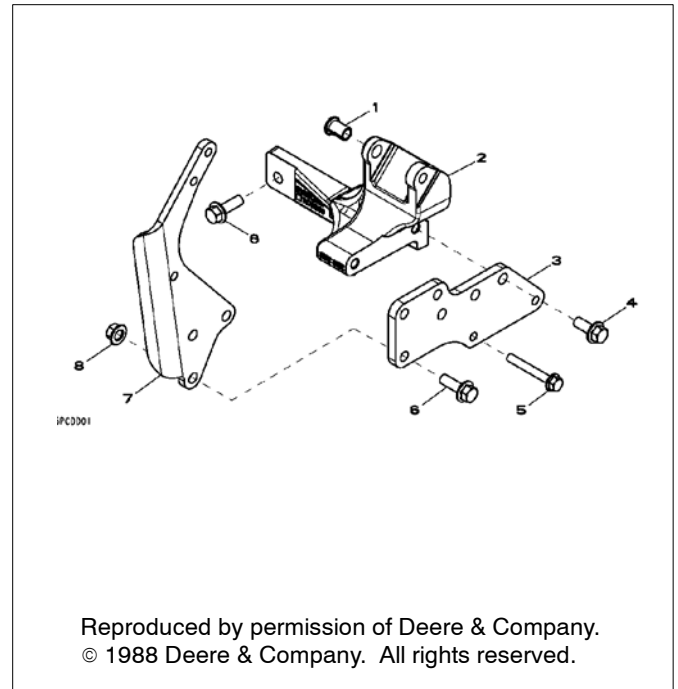
Group 37: Alternator Mounting, continued



Item	Part Number	Description	Quantity
			Variation 6202
1	#	Screw, M10x 45	2
2	GM63741	Bracket	1



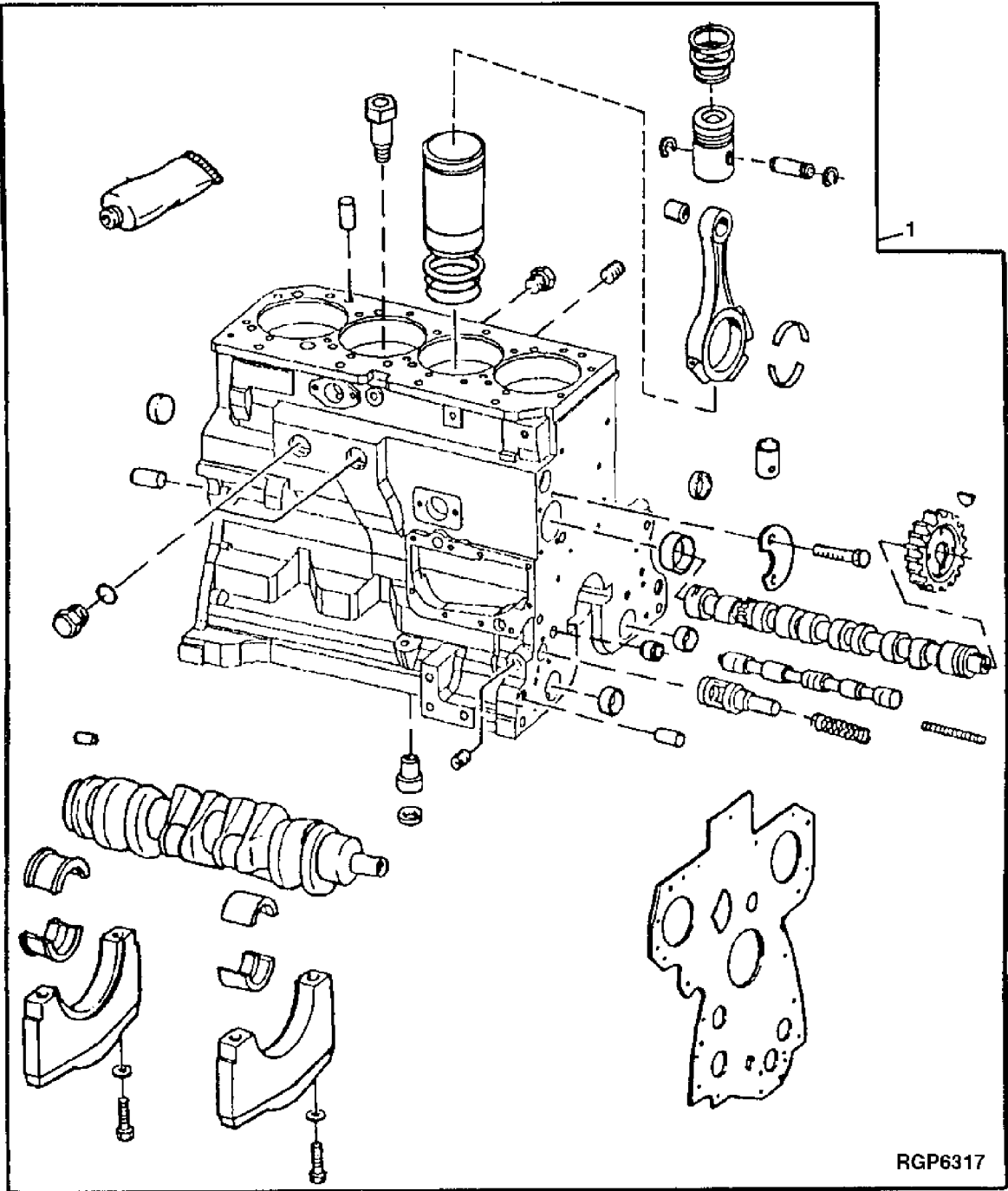
Item	Part Number	Description	Quantity
			Variation 6278
1	GM46702	Bushing	1
2	GM49887	Bracket	1
3	#	Screw, M10 x 30	6
4	GM49923	Bracket	1
5	#	Screw, M10 x 120	1
6	#	Screw, M10 x 25	2
7	#	Flange nut, M10	3
8	#	Screw, M10 x 40	2
9	GM49888	Strap	1



Item	Part Number	Description	Quantity
			Variation 6203
1	360076	Bushing	1
2	360150	Bracket	1
3	360155	Support	1
4	#	Screw, M10 X 25	2
5	#	Screw, M8 X 60	1
6	#	Screw, M10 X 30	5
7	360156	Strap	1
8	GM30375	Flange Nut	3

Common hardware; procure locally.

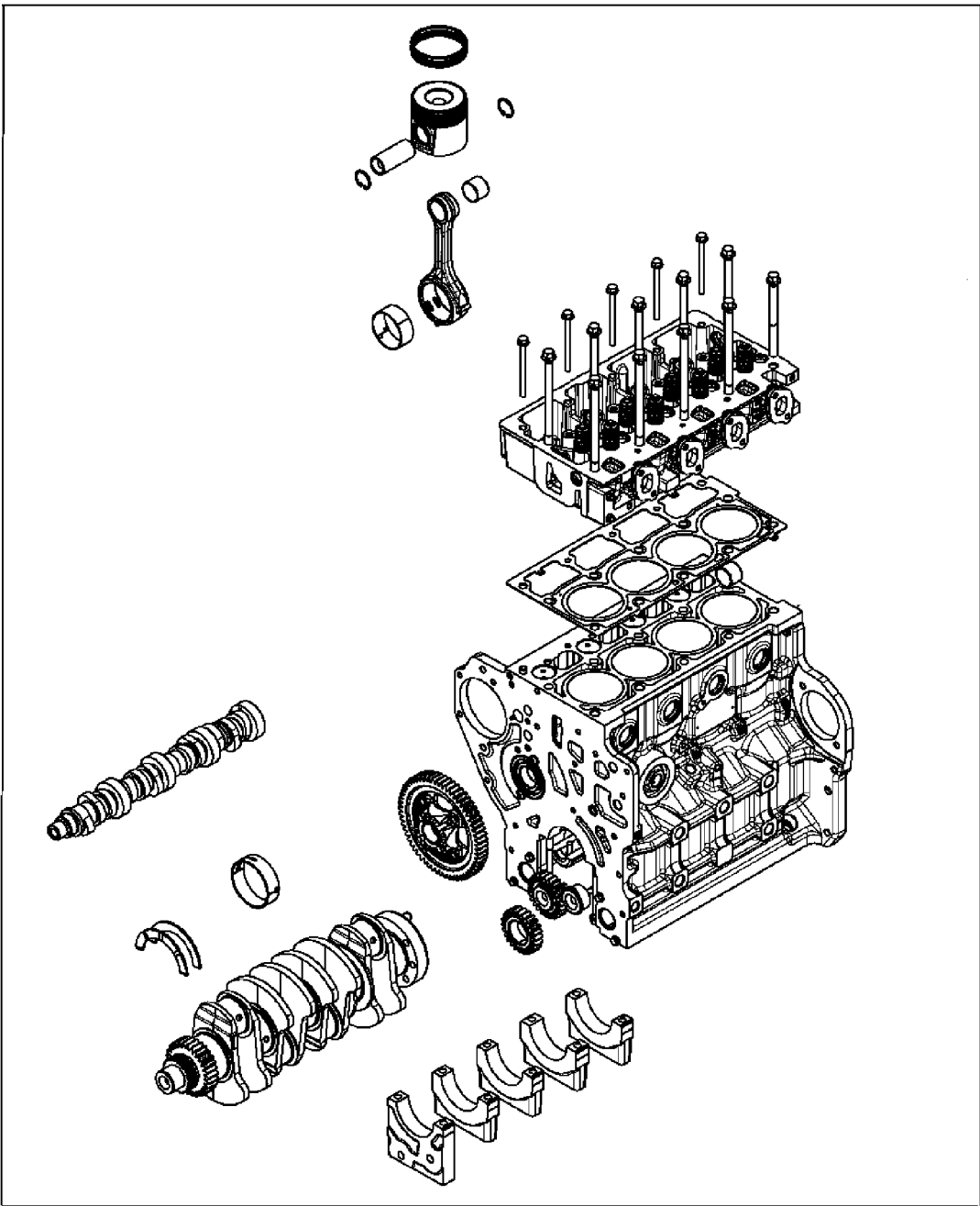
Group 38: Short Block



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Item	Part Number	Description	Quantity	
			Variation 1	2
1	GM32843	Block assembly, short (4045TF270)	1	
1	GM32832	Block assembly, short (4045HF275)		1

Group 38: Short Block, continued

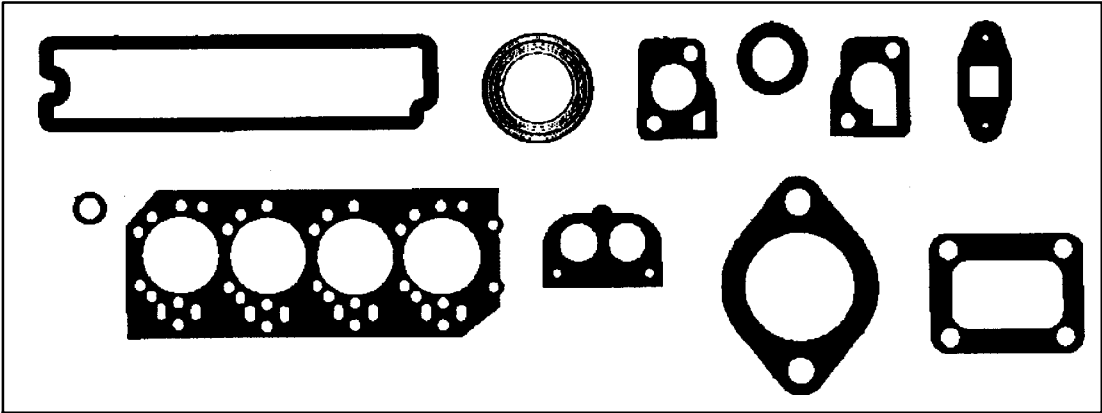


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RE528292RGP01

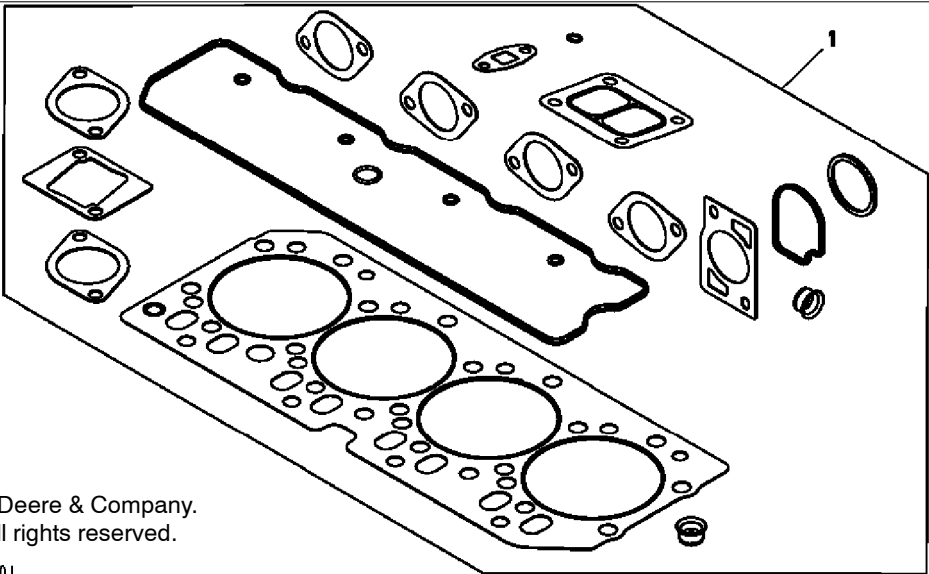
Item	Part Number	Description	Quantity			
			Variation			
			3	4	5	6
1	GM63871	Complete block assembly	1			
1	GM77166	Short block assembly		1		
1	GM77167	Short block assembly			1	
1	GM91856	Short block assembly				1

Group 39: Cylinder Head Gasket Set



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Item	Part Number	Description	Quantity	
			Variation	
1	360586	Gasket kit, cylinder head (4045HF275)	1	

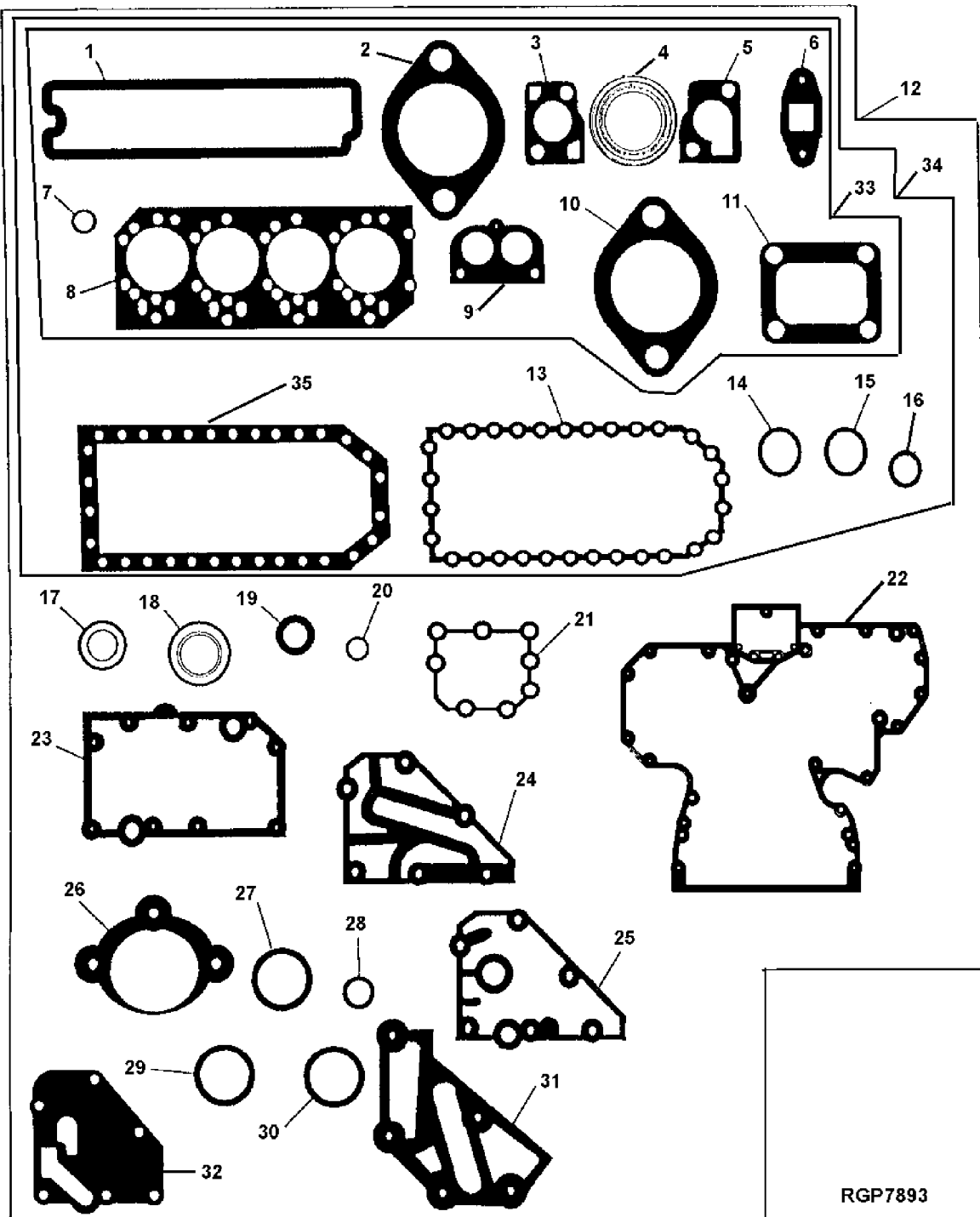


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RE532842PCDA01

Item	Part Number	Description	Quantity	
			Variation	
1	GM77168	Gasket kit, cylinder head (4045HF285)	2	3
1	GM91857	Gasket kit, cylinder head (4045TF280)	1	1

Group 40: Overhaul Gasket Set



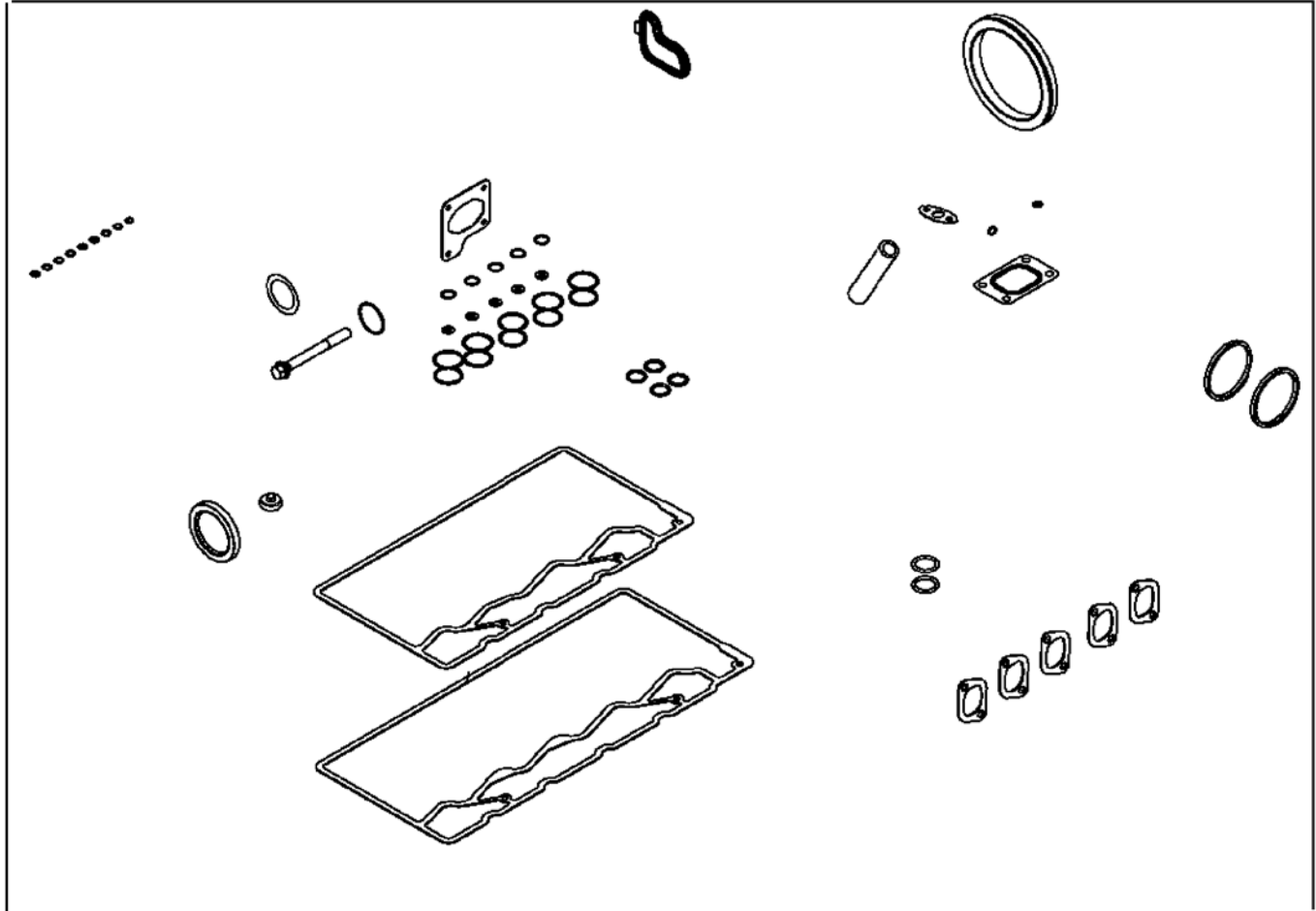
RGP7893

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Item	Part Number	Description	Quantity
			Variation
12	360587	Gasket kit (includes items 1-11, 13-34)	1

Group 40: Overhaul Gasket Set, continued

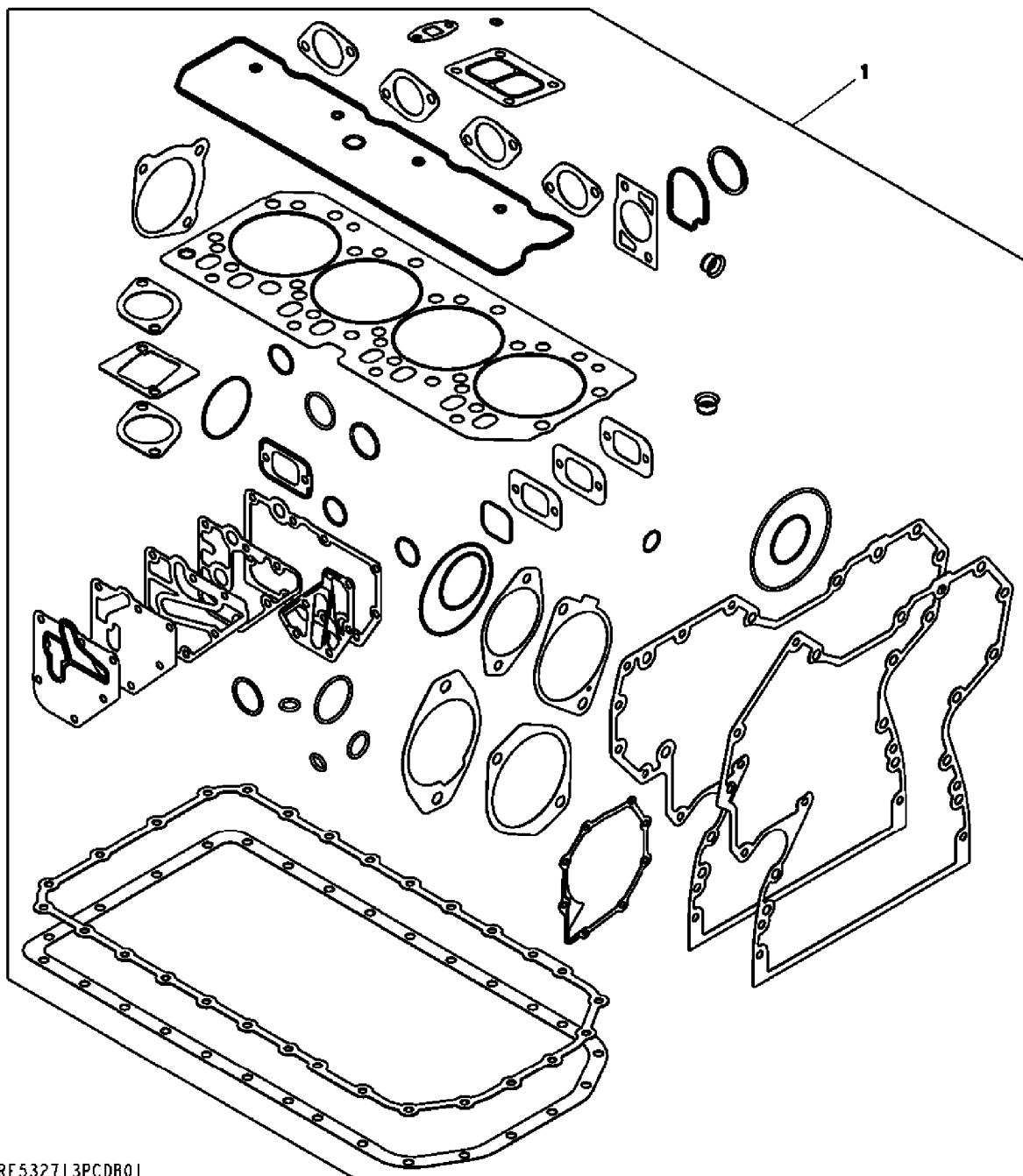
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RE536448PCDA01

Item	Part Number	Description	Quantity Variation	
			2	3
1	GM63919	Gasket kit	1	
1	GM64248	Gasket kit		1

Group 40: Overhaul Gasket Set, continued

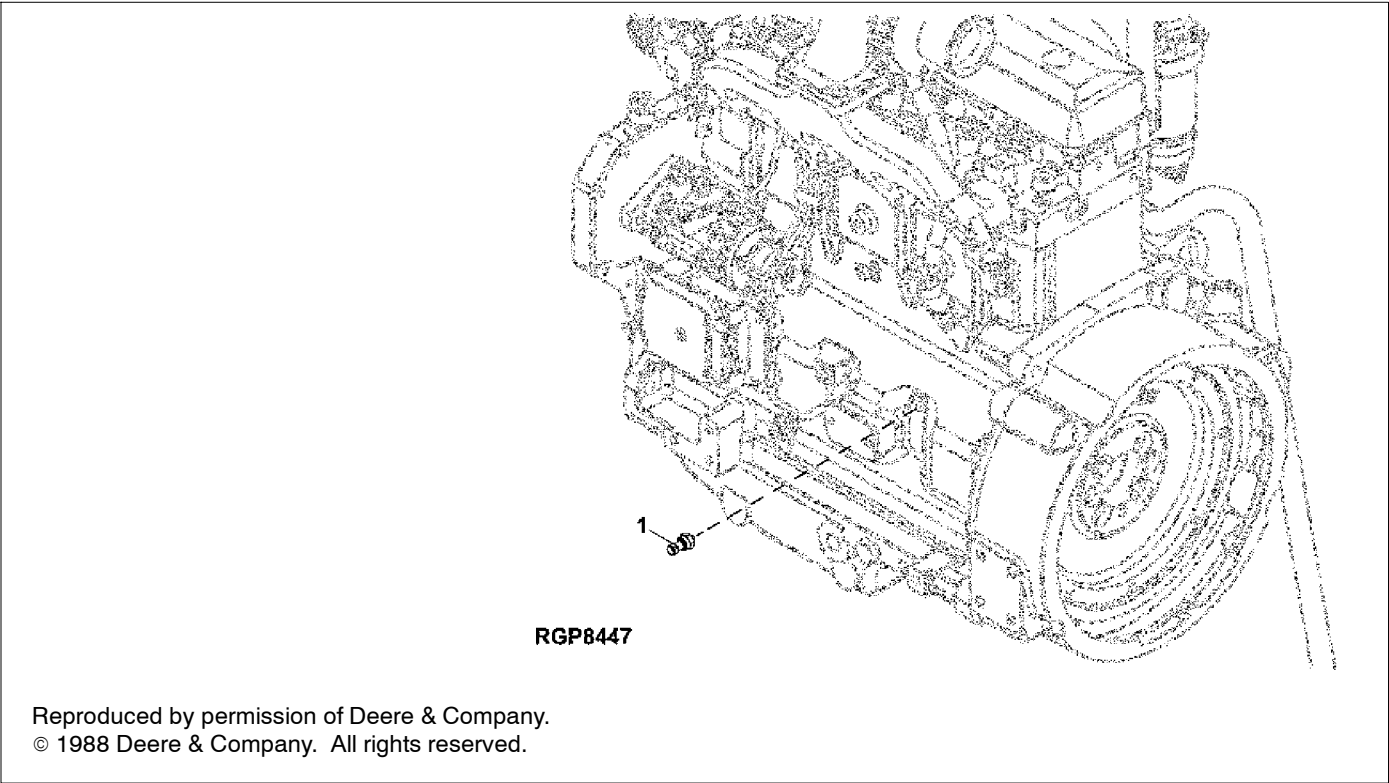


RE532713PCDB01

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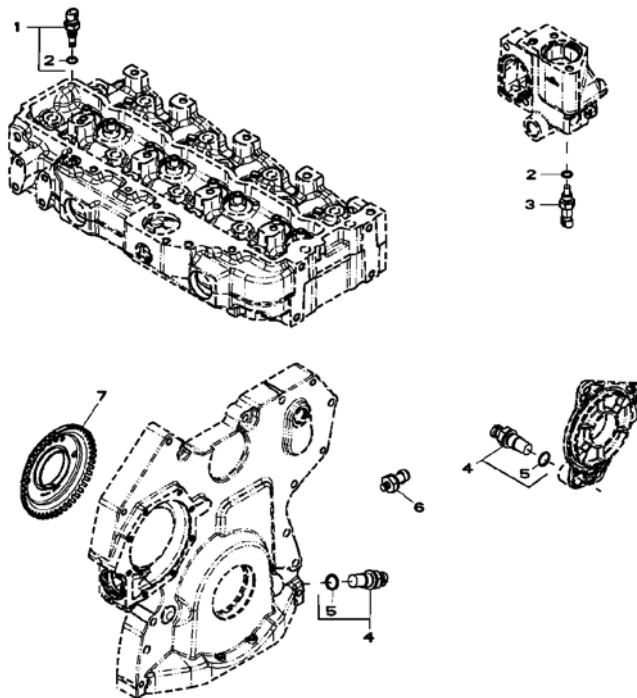
Item	Part Number	Description	Quantity	
			4	5
1	GM77169	Gasket kit (4045HF285)	1	
1	GM91858	Gasket kit		1

Group 41: Engine Sensors



Item	Part Number	Description	Quantity
			Variation 7635
1	GM32919	Sensor, engine oil pressure	1

Group 41: Engine Sensors, continued

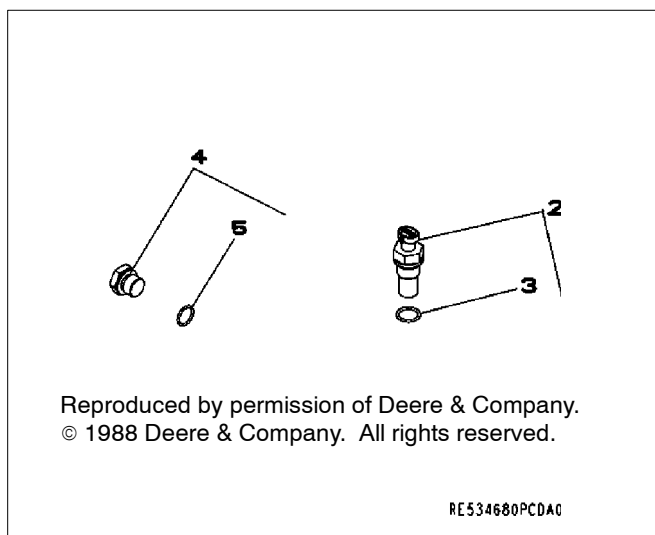
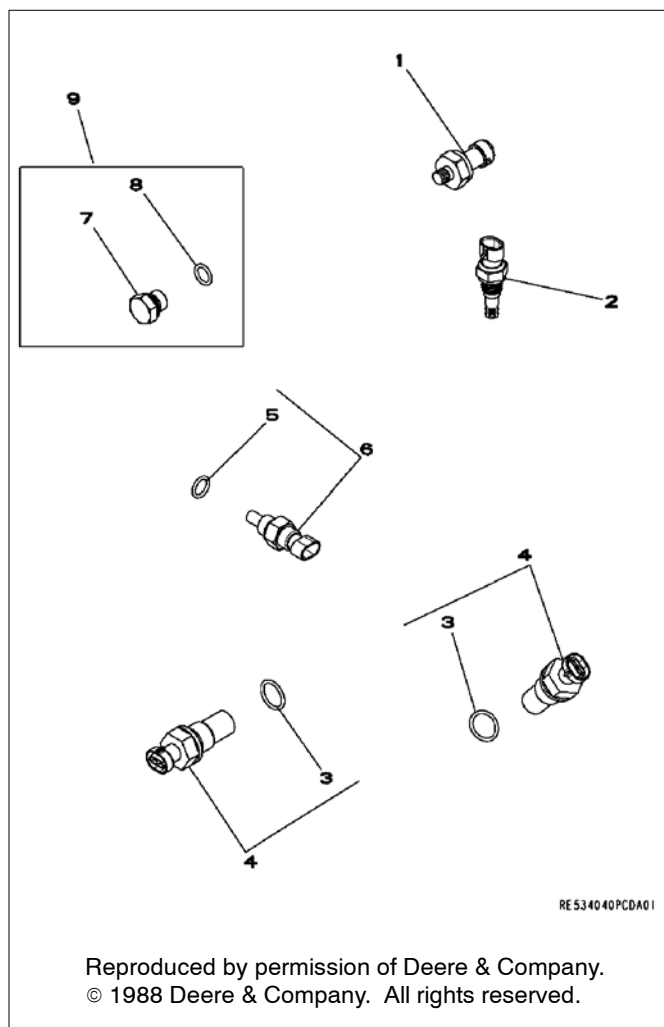


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RE527631PCDA01

Item	Part Number	Description	Quantity
			Variation 6730
1	GM50034	Thermocouple, air temperature	1
2	GM21508	O-ring	1
3	GM32955	Sensor, coolant temperature	1
4	GM50704	Sensor, engine speed	2
5	360180	O-ring 17.3 x 2.2 mm	2
6	GM32919	Sensor, pressure	1
7	GM49838	Wheel	1

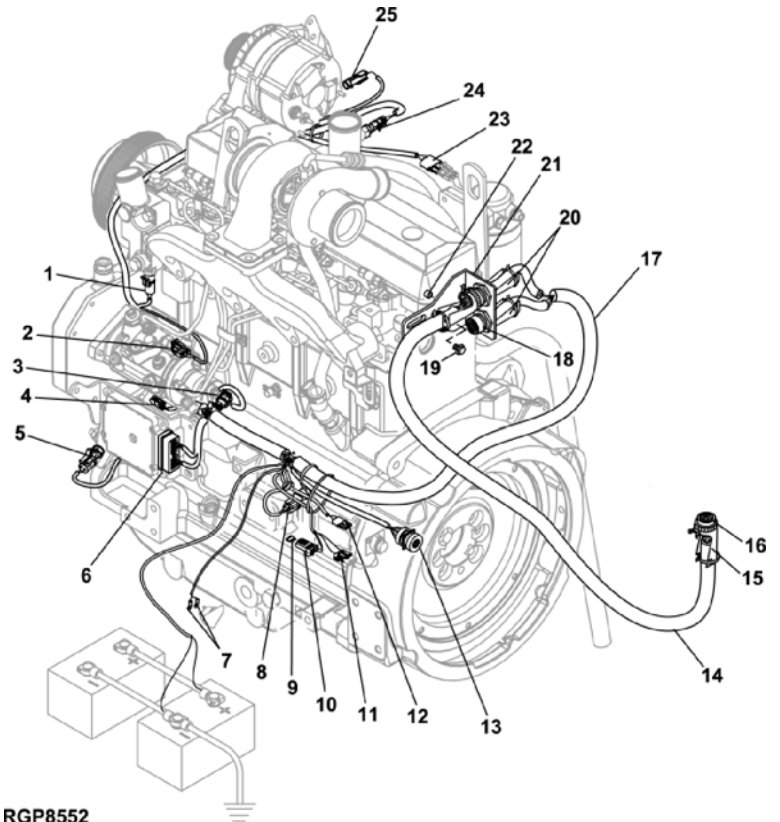
Group 41: Engine Sensors, continued



Item	Part Number	Description	Quantity	
			Variation	
			6702	6712
2	GM49939	Sensor		1
2	246040	Sensor (3/8-24)	1	
3	360180	O-ring, 17.3 x 2.2 mm		1
4	360078	Plug, drain	1	1
5	360180	O-ring, 17.3 x 2.2 mm	1	1

Item	Part Number	Description	Quantity
			Variation 6711
1	GM32919	Sensor, pressure	1
2	GM50034	Thermocouple, air temperature	1
3	360180	O-ring, 17.3 x 2.2 mm	1
4	GM59793	Sensor, engine speed	2
5	GM21508	O-ring	1
6	GM50195	Sensor	1
7	GM63707	Drain plug	1
8	GM21508	O-ring	1
9	360013	Plug	1

Group 42: Wiring Harness

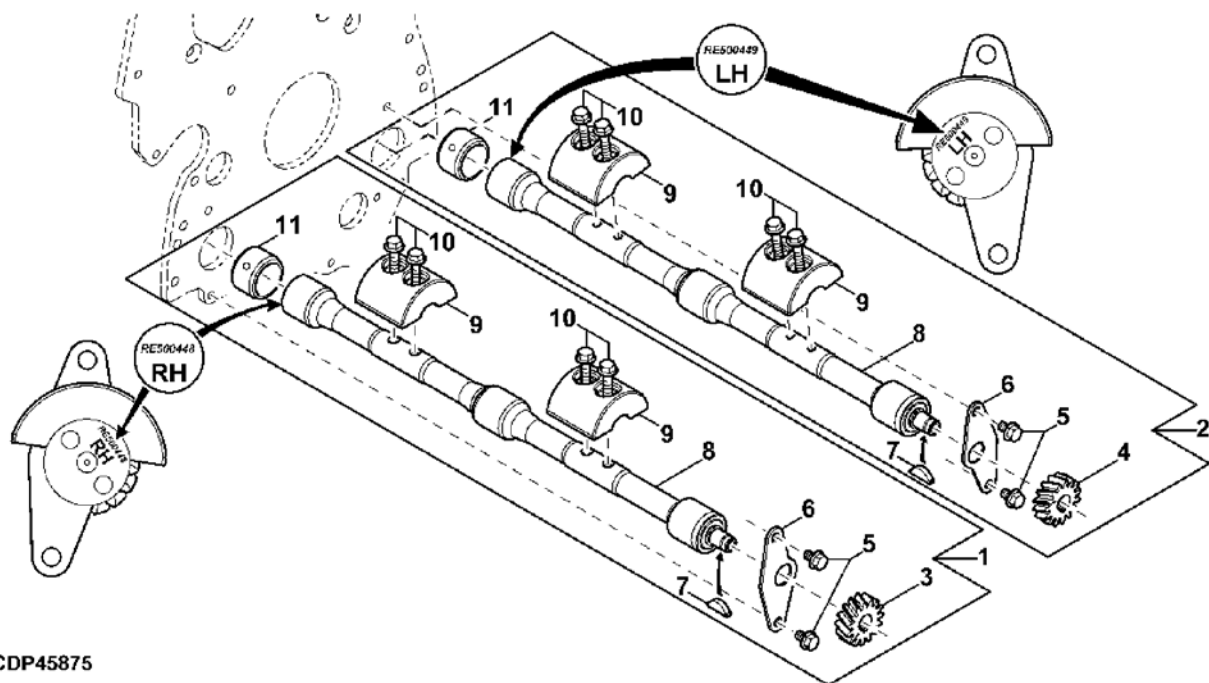


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RGP8552

Item	Part Number	Description	Quantity Variation	
			8407	8457
1	GM32768	Connector	1	
2	GM32768	Connector	1	
3	GM32771	Connector	1	
4	GM32773	Connector	1	
5	GM32768	Connector	1	
6	GM32767	Connector	1	
7	GM32772	Connector	2	
8	GM32774	Connector	1	
9	GM32766	Fuse	1	
10	GM32778	Connector	1	
11	GM32806	Connector	1	
12	GM32769	Connector	1	
13	GM32775	Connector	1	
14	GM32837	Wiring harness	1	
15	GM32779	Connector	1	
16	GM32776	Connector	2	
17	GM32822	Wiring harness	1	
18	GM32777	Connector	1	
19	GM32765	Screw	1	
20	GM32779	Connector	2	
21	GM32802	Bracket	1	
22	GM32847	Bushing	1	
23	GM32770	Connector	1	
24	GM32768	Connector	1	
25	GM32804	Connector	1	

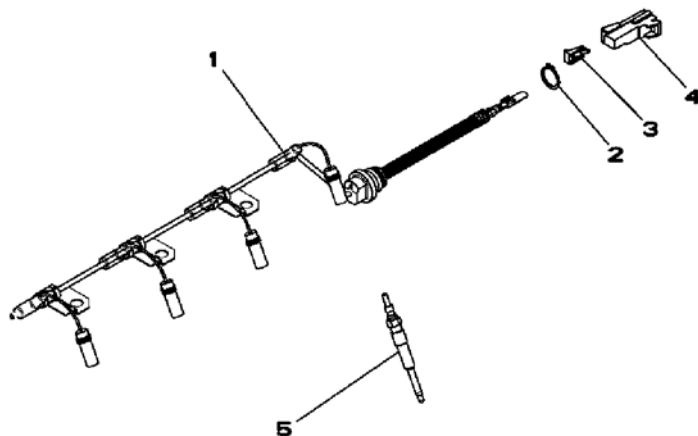
Group 43: Engine Balancer Shafts



Item	Part Number	Description	Quantity
			Variation 4501
1	GM50634	Balancer shaft, right hand	1
2	GM50635	Balancer shaft, left hand	1
3	360549	Gear, 15 teeth	1
4	360100	Gear, 30 teeth	1
5	#	Screw, M8 x 12	1
6	360547	Plate	1
7	360158	Key, shaft	1
8	—	Balancer shaft (order item 1)	1
8	—	Balancer shaft (order item 2)	1
9	GM50636	Weight	2
10	#	Screw, M8 x 40	4
11	360519	Bushing	3

Common hardware; procure locally.

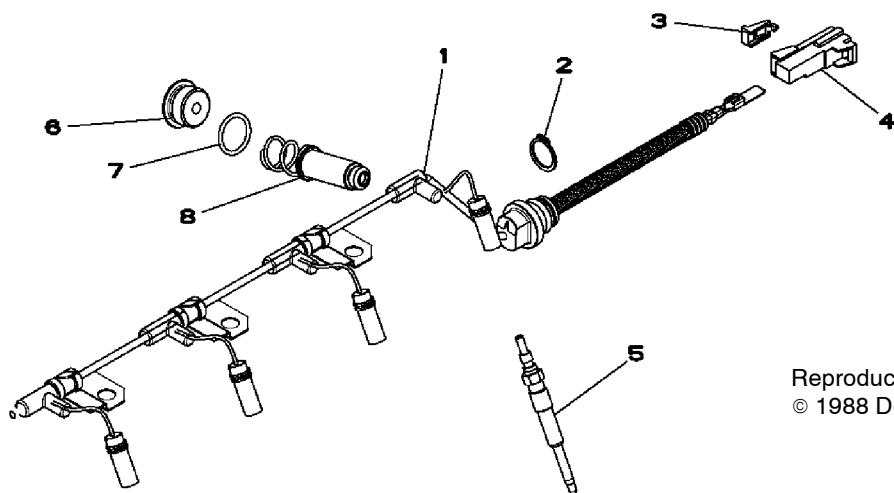
Group 44: Starting Aid (Glow Plugs)



RE528711PCDA01

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Item	Part Number	Description	Quantity	
			Variation	
			4315	4316
1	GM63875	Wiring harness	1	
1	GM63874	Wiring harness		1
2	GM63703	Snap ring	1	1
3	GM63767	Differential lock	1	1
4	GM63762	Electrical connector cap	1	1
5	GM63805	Glow plug	4	4

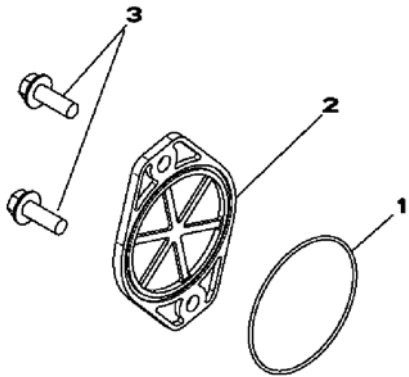


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RE509135PCOG03

Item	Part Number	Description	Quantity
			Variation 4301
1	GM63841	Wiring harness	1
2	GM63703	Snap ring	1
3	GM63767	Differential lock	1
4	GM63762	Electrical connector cap	1
5	GM63805	Glow plug	4
6	GM63825	Fitting plug	1
7	GM17437	O-ring	1
8	GM63870	Thermostat	1

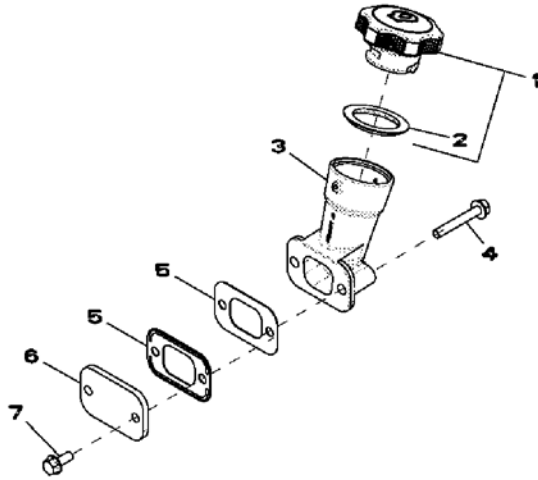
Group 45: Auxiliary Drive Cover



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Item	Part Number	Description	Quantity
			Variation 5204
1	360172	O-Ring	1
2	360593	Cover	1
3	GM70546	Screw	2

Group 46: Oil Filler Neck



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Item	Part Number	Description	Quantity
			Variation 1210
1	360018	Filler Cap	1
2	GM17493	Packing	1
3	GM42207	Filler Neck	1
4	#	Screw, M8 X 55	2
5	GM17466	Gasket	3
6	360089	Cover	1
7	GM24536	Screw	2

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	

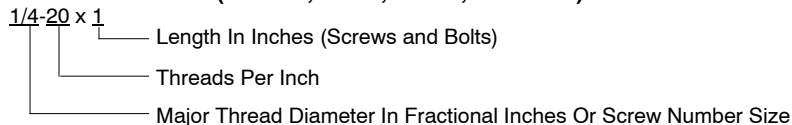
Hardness Grades	
American Standard	
Grade 2	
Grade 5	
Grade 8	
Grade 8/9 (Hex Socket Head)	
Metric	
Number stamped on hardware; 5.8 shown	

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

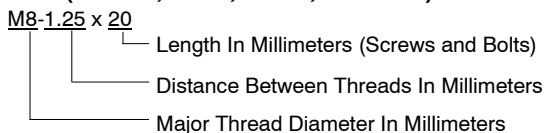
Phillips® screw is a registered trademark of Phillips Screw Company.

Sample Dimensions

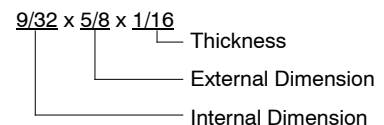
American Standard (Screws, Bolts, Studs, and Nuts)



Metric (Screws, Bolts, Studs, and Nuts)



Plain Washers



Lock Washers



Appendix B Common Hardware List

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

American Standard

Part No. Dimensions Hex Head Bolts (Grade 5)

X-465-17	1/4-20 x .38
X-465-6	1/4-20 x .50
X-465-2	1/4-20 x .62
X-465-16	1/4-20 x .75
X-465-18	1/4-20 x .88
X-465-7	1/4-20 x 1.00
X-465-8	1/4-20 x 1.25
X-465-9	1/4-20 x 1.50
X-465-10	1/4-20 x 1.75
X-465-11	1/4-20 x 2.00
X-465-12	1/4-20 x 2.25
X-465-14	1/4-20 x 2.75
X-465-21	1/4-20 x 5.00
X-465-25	1/4-28 x .38
X-465-20	1/4-28 x 1.00
X-125-33	5/16-18 x .50
X-125-23	5/16-18 x .62
X-125-3	5/16-18 x .75
X-125-31	5/16-18 x .88
X-125-5	5/16-18 x 1.00
X-125-24	5/16-18 x 1.25
X-125-34	5/16-18 x 1.50
X-125-25	5/16-18 x 1.75
X-125-26	5/16-18 x 2.00
230578	5/16-18 x 2.25
X-125-29	5/16-18 x 2.50
X-125-27	5/16-18 x 2.75
X-125-28	5/16-18 x 3.00
X-125-22	5/16-18 x 4.50
X-125-32	5/16-18 x 5.00
X-125-35	5/16-18 x 5.50
X-125-36	5/16-18 x 6.00
X-125-40	5/16-18 x 6.50
X-125-43	5/16-24 x 1.75
X-125-44	5/16-24 x 2.50
X-125-30	5/16-24 x .75
X-125-39	5/16-24 x 2.00
X-125-38	5/16-24 x 2.75
X-6238-2	3/8-16 x .62
X-6238-10	3/8-16 x .75
X-6238-3	3/8-16 x .88
X-6238-11	3/8-16 x 1.00
X-6238-4	3/8-16 x 1.25
X-6238-5	3/8-16 x 1.50
X-6238-1	3/8-16 x 1.75
X-6238-6	3/8-16 x 2.00
X-6238-17	3/8-16 x 2.25
X-6238-7	3/8-16 x 2.50
X-6238-8	3/8-16 x 2.75
X-6238-9	3/8-16 x 3.00
X-6238-19	3/8-16 x 3.25
X-6238-12	3/8-16 x 3.50
X-6238-20	3/8-16 x 3.75
X-6238-13	3/8-16 x 4.50
X-6238-18	3/8-16 x 5.50
X-6238-25	3/8-16 x 6.50

Part No. Dimensions Hex Head Bolts, cont.

X-6238-14	3/8-24 x .75
X-6238-16	3/8-24 x 1.25
X-6238-21	3/8-24 x 4.00
X-6238-22	3/8-24 x 4.50
X-6024-5	7/16-14 x .75
X-6024-2	7/16-14 x 1.00
X-6024-8	7/16-14 x 1.25
X-6024-3	7/16-14 x 1.50
X-6024-4	7/16-14 x 2.00
X-6024-11	7/16-14 x 2.75
X-6024-12	7/16-14 x 6.50
X-129-15	1/2-13 x .75
X-129-17	1/2-13 x 1.00
X-129-18	1/2-13 x 1.25
X-129-19	1/2-13 x 1.50
X-129-20	1/2-13 x 1.75
X-129-21	1/2-13 x 2.00
X-129-22	1/2-13 x 2.25
X-129-23	1/2-13 x 2.50
X-129-24	1/2-13 x 2.75
X-129-25	1/2-13 x 3.00
X-129-27	1/2-13 x 3.50
X-129-29	1/2-13 x 4.00
X-129-30	1/2-13 x 4.50
X-463-9	1/2-13 x 5.50
X-129-44	1/2-13 x 6.00
X-129-51	1/2-20 x .75
X-129-45	1/2-20 x 1.25
X-129-52	1/2-20 x 1.50
X-6021-3	5/8-11 x 1.00
X-6021-4	5/8-11 x 1.25
X-6021-2	5/8-11 x 1.50
X-6021-1	5/8-11 x 1.75
273049	5/8-11 x 2.00
X-6021-5	5/8-11 x 2.25
X-6021-6	5/8-11 x 2.50
X-6021-7	5/8-11 x 2.75
X-6021-12	5/8-11 x 3.75
X-6021-11	5/8-11 x 4.50
X-6021-10	5/8-11 x 6.00
X-6021-9	5/8-18 x 2.50
X-6239-1	3/4-10 x 1.00
X-6239-8	3/4-10 x 1.25
X-6239-2	3/4-10 x 1.50
X-6239-3	3/4-10 x 2.00
X-6239-4	3/4-10 x 2.50
X-6239-5	3/4-10 x 3.00
X-6239-6	3/4-10 x 3.50
X-792-1	1-8 x 2.25
X-792-5	1-8 x 3.00
X-792-8	1-8 x 5.00

Part No. Dimensions Type

Hex Nuts

X-6009-1	1-8	Standard
X-6210-3	6-32	Whiz
X-6210-4	8-32	Whiz
X-6210-5	10-24	Whiz
X-6210-1	10-32	Whiz
X-6210-2	1/4-20	Spiralock
X-6210-6	1/4-28	Spiralock
X-6210-7	5/16-18	Spiralock
X-6210-8	5/16-24	Spiralock
X-6210-9	3/8-16	Spiralock
X-6210-10	3/8-24	Spiralock
X-6210-11	7/16-14	Spiralock
X-6210-12	1/2-13	Spiralock
X-6210-15	7/16-20	Spiralock
X-6210-14	1/2-20	Spiralock
X-85-3	5/8-11	Standard
X-88-12	3/4-10	Standard
X-89-2	1/2-20	Standard

Washers

Part No.	ID	OD	Thick.	Bolt/ Screw
X-25-46	.125	.250	.022	#4
X-25-9	.156	.375	.049	#6
X-25-48	.188	.438	.049	#8
X-25-36	.219	.500	.049	#10
X-25-40	.281	.625	.065	1/4
X-25-85	.344	.687	.065	5/16
X-25-37	.406	.812	.065	3/8
X-25-34	.469	.922	.065	7/16
X-25-26	.531	1.062	.095	1/2
X-25-15	.656	1.312	.095	5/8
X-25-29	.812	1.469	.134	3/4
X-25-127	1.062	2.000	.134	1

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
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

Flat Head Machine Screws

M965A-04012-SS	M4-0.70 x 12
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.

