

Service Parts

Engine

Engine Models:

**John Deere 6068HF275/285
6068HF475/485/G82/G85**

Generator Models:

135-200REOZJC
125-200REOZJD
150-200REOZJE
150-200REOZJF
180REOZJG

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Introduction

This manual lists service replacement parts for John Deere engine models 6068HF275/285 and 6068HF475/485/G82/G85.

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

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

This manual includes the following main sections:

Table of Contents. Lists the sections of the manual.

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

Index. Lists the engine models and groups.

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

Numbering System Significance

This manual uses the following numbering systems:

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

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

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

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

Illustrations

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

How to Find Part Numbers

Use the following steps to locate a service replacement part.

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

Hardware References

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

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

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

Model Index

Group Title															
	<i>Air Intake</i>	<i>Water Pump</i>	<i>Water Pump Pulley</i>	<i>Water Pump Inlet</i>	<i>Thermostat</i>	<i>Fan Belt</i>	<i>Fan Drive</i>	<i>Fan Pulley</i>	<i>Belt Tensioner</i>	<i>Vent Tube</i>	<i>Camshaft</i>	<i>Valve Train</i>	<i>Rocker Arm Cover</i>	<i>Fuel Injection System</i>	
Group No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Variation Number															

Engine Model														
125/150 kW (125/150REOZJD)														
6068HF285, 12V	1783	4433	2002	5722	2156a	24GG	2341	8610	8724	2957	4644	4902	1159	16A6
6068HF285, 24V	1783	4433	2002	5722	2156a	24GG	2341	8610	8724	2957	4644	4902	1159	16A6
150 kW (150REOZJE/REOZJF)														
6068HF285, 12V	1783	4433	2002	5722	2156a	24GG	2341	8610	8724	2957	4644	4902	1159	16A6
6068HF285, 24V	1783	4433	2002	5722	2156a	24GG	2341	8610	8724	2957	4644	4902	1159	16A6
135 kW (135REOZJC)														
6068HF275, 12V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	163E
6068HF275, 24V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	161Q
150 kW (150REOZJC)														
6068HF275, 12V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	16YS
6068HF275, 24V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	16YT
180 kW (180REOZJC)														
6068HF275, 12V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	162B
6068HF275, 24V	1783	4426	2001	5722	2102	2419	2312	8610	8702	2905	4613	4902	1108	162C
200 kW (200REOZJC)														
6068HF475	1797	4433	2001	5722	3910	2480* 2429	2341	8611	8717	2917	4611	4903	1120	165B
180/200 kW (180/200REOZJD)														
6068HF485	17BL	4436	2001	5722	3917	24EX	2341	8612	8724	2917	4633	4905	1137	16C7
180/200 kW (180/200REOZJE/REOZJF)														
6068HFG85	17BL	4436	2001	5722	3917	24EX	2341	8612	8724	2917	4633	4905	1137	16C7
6068HF485	17BL	4436	2001	5722	3917	24EX	2341	8612	8724	2917	4633	4905	1137	16C7
180 kW (180REOZJG)														
6068HFG82	1783	4446	2001	5722	2156b	2430	2341	8611	8727	2957	4653	4902	1159	16AX

* Engine option code 2480 or 2429 was used. Check the engine nameplate to verify the variation code.

Model Index

Group Title														
	<i>Fuel Lines</i>	<i>Fuel Separator</i>	<i>Fuel Pump</i>	<i>Fuel Filter</i>	<i>Crankshaft</i>	<i>Crankshaft Pulley</i>	<i>Piston & Connecting Rod</i>	<i>Flywheel</i>	<i>Flywheel Housing</i>	<i>Cylinder Head</i>	<i>Exhaust Manifold</i>	<i>Exhaust Elbow</i>	<i>Oil Filter</i>	
Group No.	15	16	17	18	19	20	21	22	23	24	25	26	27	
	Variation Number													

Engine Model													
125/150 kW (125/150REOZJD)													
6068HF285, 12V	6387	8171	3713	35ED	4712	1324	4839	1503	1406	5123	28AV	6438	8842
6068HF285, 24V	6387	8171	3713	35ED	4712	1324	4839	1503	1406	5123	28AV	6438	8842
150 kW (150REOZJE/REOZJF)													
6068HF285, 12V	6387	8171	3713	35ED	4712	1324	4839	1503	1406	5123	28AV	-	8842
6068HF285, 24V	6387	8171	3713	35ED	4712	1324	4839	1503	1406	5123	28AV	-	8842
135 kW (135REOZJC)													
6068HF275, 12V	6317	—	3702	35BV	4712	1320	4820	1503	1406	5107	2809	6401	8842
6068HF275, 24V	6317	—	3702	35BV	4712	1320	4820	1503	1406	5107	2809	6401	8842
150 kW (150REOZJC)													
6068HF275, 12V	6306	8114	—	35BR	4712	1320	4820	1503	1406	5107	2809	6401	8842
6068HF275, 24V	6316	8117	—	35BR	4712	1320	4820	1503	1406	5107	2809	6401	8842
180 kW (180REOZJC)													
6068HF275, 12V	6306	8114	—	35BR	4712	1320	4820	1503	1406	5107	2809	6401	8842
6068HF275, 24V	6316	8117	—	35BR	4712	1320	4820	1503	1406	5107	2809	6401	8842
200 kW (200REOZJC)													
6068HF475	6326	8139	3713	35CR	4712	1322* 1340*	4817	1503	1407	5116	2868	6401	8843
180/200 kW (180/200REOZJD)													
6068HF485	6360	8177	3713	35DZ	4712	1321	4834	1503	1420	5120	2873	6435	8843
180/200 kW (180/200REOZJE/REOZJF)													
6068HFG85	6360	8177	3713	35DZ	4712	1321† 1334†	4834	1503	1420	5120	2873	6435	8843
6068HF485	6360	8177	3713	35DZ	4712	1321	4834	1503	1420	5120	2873	6435	8843
180 kW (180REOZJG)													
6068HFG82	6387	8171	3713	35ED	4712	1324	4855	1503	1406	5132	28AV	6438	8843

* Engine option code 1322 or 1340 was used. Check the engine nameplate to verify the variation code.

† Engine option code 1321 or 1334 was used. Check the engine nameplate to verify the variation code.

Model Index

Group Title												
	<i>Dipstick</i>	<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	38	
	Variation Number											

Engine Model											
125/150 kW (125/150REOZJD)											
6068HF285, 12V	4002	19AC	5903	5001	4644	3612	4433	65QC	3006	3138	6278
6068HF285, 24V	4002	19AC	5903	5001	4644	3612	4433	65QC	3041	3142	6278
150 kW (150REOZJE/REOZJF)											
6068HF285, 12V	4002	19AC	5903	5001	4644	3612	4433	65QC	3006	3138	6278
6068HF285, 24V	4002	19AC	5903	5001	4644	3612	4433	65QC	3041	3142	6278
135 kW (135REOZJC)											
6068HF275, 12V	4002	*	5902	5001	4613	3618	4426	65DX	3006	3138	6201
6068HF275, 24V	4002	*	5902	5001	4613	3618	4426	65DX	3041	3142	6201
150 kW (150REOZJC)											
6068HF275, 12V	4002	*	5903	5001	4613	3616	4426	65GR	3006	3138	6201
6068HF275, 24V	4002	*	5903	5001	4613	3616	4426	65GR	3041	3142	6201
180 kW (180REOZJC)											
6068HF275, 12V	4002	*	5903	5001	4613	3616	4426	65GU	3006	3138	6201
6068HF275, 24V	4002	*	5903	5001	4613	3616	4426	65GU	3041	3142	6201
200 kW (200REOZJC)											
6068HF475	4002	1961	5903	5001	4611	3612	4433	65HP	3041	3142	6256
180/200 kW (180/200REOZJD)											
6068HF485	4002	1961	5945	5024	4633	3612	4436	65PF	3041	3142	6272
180/200 kW (180/200REOZJE/REOZJF)											
6068HFG85	4002	1961	5945	5024	4633	3612	4436	65PF	3041	3142	6272
6068HF485	4002	1961	5945	5024	4633	3612	4436	65PF	3041	3142	6272
180 kW (180REOZJG)											
6068HFG82	4002	19CM	5903	5001	4653	3612	4446	65ZR	3041	3142	6201

* Oil Pan option code 1924, 1961, or 19AC was used. Check the engine nameplate to verify the variation code.

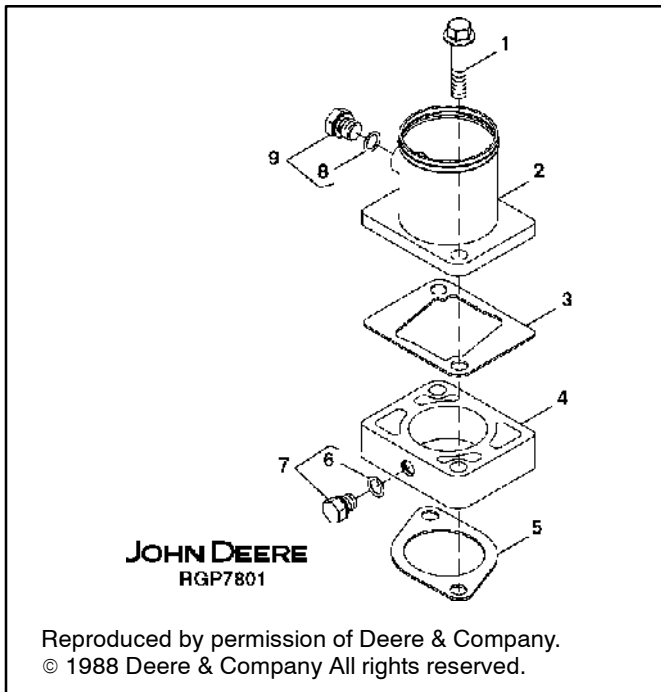
Model Index

Group Title									
	Short Block	Cylinder Head Gasket Set	Overhaul Gasket Set	Engine Sensors	Wiring Harness	Starting Aid	Turbo Air Inlet	Damper	Exhaust Gas Recirculation
Group No.	39	40	41	42	43	44	45	46	47
	Variation Number								

Engine Model									
125/150 kW (125/150REOZJD)									
6068HF285, 12V	-	-	-	6730	8438	-	-	-	-
6068HF285, 24V	-	-	-	6730	8438	-	-	-	-
150 kW (150REOZJE/REOZJF)									
6068HF285, 12V	-	-	-	6730	8456	-	-	-	-
6068HF285, 24V	-	-	-	6730	8456	-	-	-	-
135 kW (135REOZJC)									
6068HF275, 12V	1	1	1	6710	8407	—	—	—	—
6068HF275, 24V	1	1	1	6710	8407	—	—	—	—
150 kW (150REOZJC)									
6068HF275, 12V	1	1	1	6709	8414	—	—	—	—
6068HF275, 24V	1	1	1	6709	8415	—	—	—	—
180 kW (180REOZJC)									
6068HF275, 12V	1	1	1	6709	8414	—	—	—	—
6068HF275, 24V	1	1	1	6709	8415	—	—	—	—
200 kW (200REOZJC)									
6068HF475	2	2	2	6709	8411	4318	-	-	-
180/200 kW (180/200REOZJD)									
6068HF485	3	-	3	6717	8426	4329	5402	-	8901
180/200 kW (180/200REOZJE/REOZJF)									
6068HFG85	3	-	3	6717	8496	4329	5402	6813† 6895†	8918
6068HF485	3	-	3	6717	8496	4329	5402	6813†	8918
180 kW (180REOZJG)									
6068HFG82	-	-	-	6730	8457	-	-	-	-

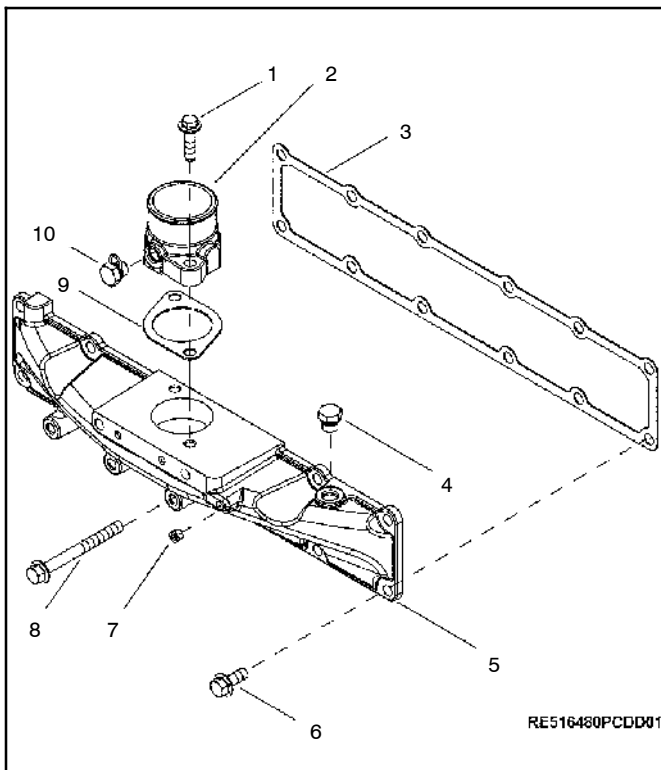
† Engine option code 6813 or 6895 was used. Check the engine nameplate to verify the variation code.

Group 1: Air Intake



Item	Part Number	Description	Qty.
			Variation 1783
1	#	Screw, M10 x 50	2
2	GM32940	Tube	1
3	223532	Gasket	1
4	GM17483	Spacer	1
5	223532	Gasket	1
6	#	O-ring, 8.1 x 1.6 mm	1
7	GM24516	Fitting	1
8	GM21508	O-ring, 11.3 x 2.2 mm	1
9	360013	Plug	1

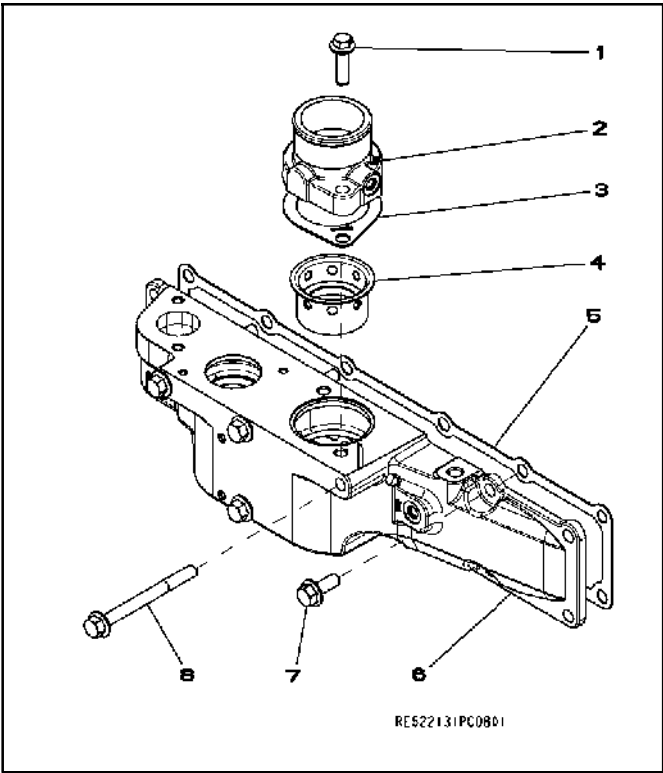
Common hardware; procure locally



Item	Part Number	Description	Qty.
			Variation 1797
1	GM46586	Screw	2
2	GM46587	Air duct	1
3	GM46588	Gasket	1
4	360013	Plug	2
5	GM46589	Cover	1
6	#	Screw, M10 x 25	10
7	224268	Pipe plug	1
8	#	Screw, M10 x 100	2
9	223532	Gasket	1
10	GM46587	Air duct	1

Common hardware; procure locally

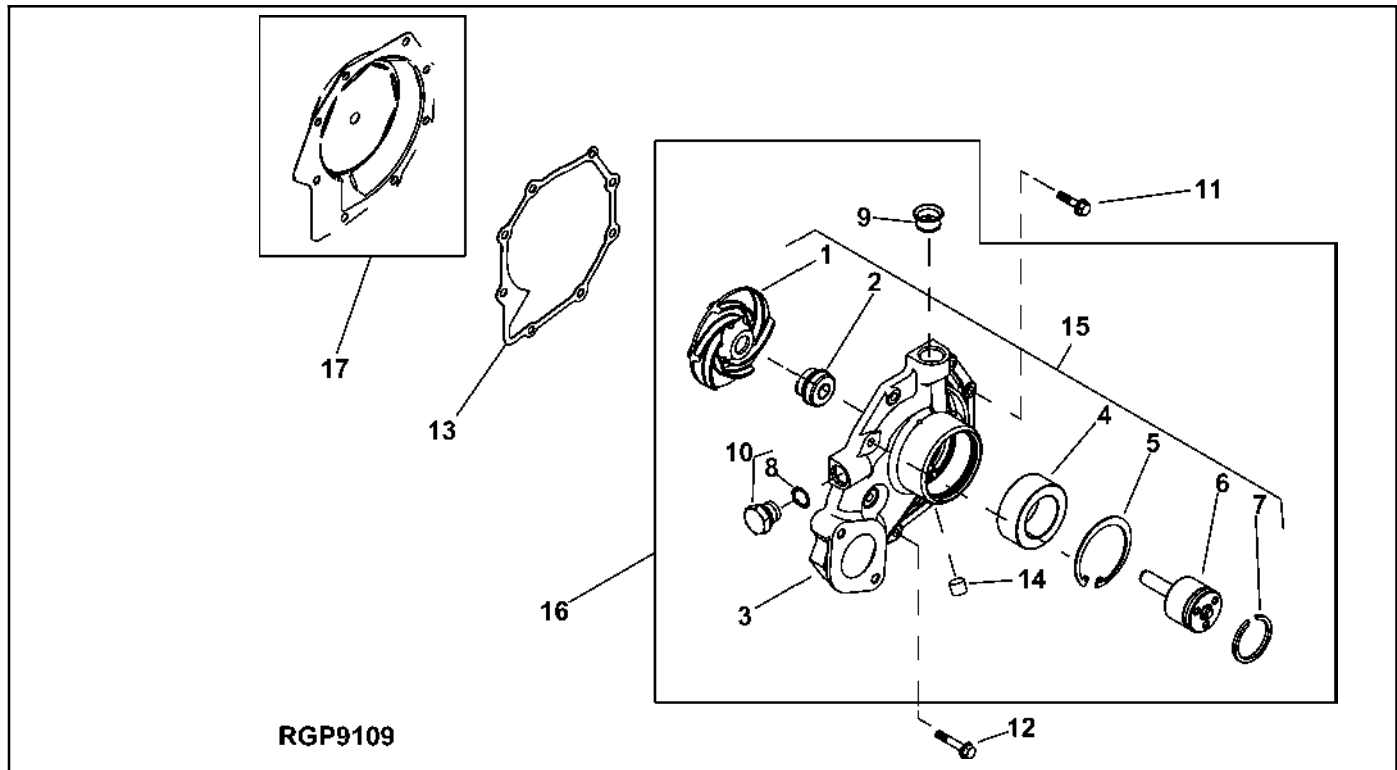
Group 1: Air Intake



Item	Part Number	Description	Qty.
			Variation 17BL
1	GM46586	Screw	2
2	GM49891	Air duct	1
3	GM49892	Gasket	1
4	GM49893	Sleeve	1
5	GM46588	Gasket	1
6	GM49848	Intake manifold	1
7	#	Screw, M10 x 25	8
8	GM49909	Screw	4

Common hardware; procure locally

Group 2: Water Pump



Item	Part Number	Description	Quantity Variation			
			4426	4433	4436	4446
1	X	Impeller	1	1	1	1
2	X	Seal	1	1	1	1
3	X	Housing	1	1	1	1
4	X	Ball bearing	1	1		1
4	GM49828	Ball bearing			1	
5	X	Ring	1	1		
5	GM49931	Ring			1	1
6	X	Shaft	1	1	1	1
7	360003	Ring, snap	1	1	1	1
8	360176	O-ring	1	1	1	1
9	360116	Gasket, water bypass tube	1	1	2	1
10	360014	Plug	2	2	1	1
11	#	Screw, M6 x 30	3	3		8
11	#	Screw, M6 x 40			3	
12	#	Screw, M6 x 25	5	5	5	
13	360124	Gasket, water pump	1	1	1	1
14	GM17443	Filter	2	1		
14	352812	Filter			1	
15	GM32944	Kit, repair	1	1	1	
16	GM29382	Pump, water	1	1		1
16	GM50009	Pump, water (also order item 17)			1	
17	360029	Kit, stainless steel insert	1	1	1	1

Common hardware; procure locally

X Not sold separately

Group 3: Water Pump Pulley



Item	Part Number	Description	Quantity	
			Variation	
			2001	2002
1	360085	Pulley, water pump	1	
1	360559	Pulley		1
2	#	Screw, M6 x 12	3	1

Common hardware; procure locally

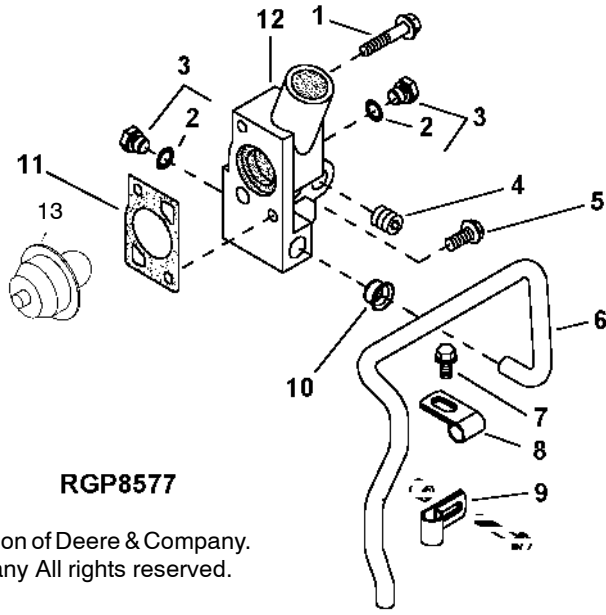
Group 4: Water Pump Inlet



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

Common hardware; procure locally

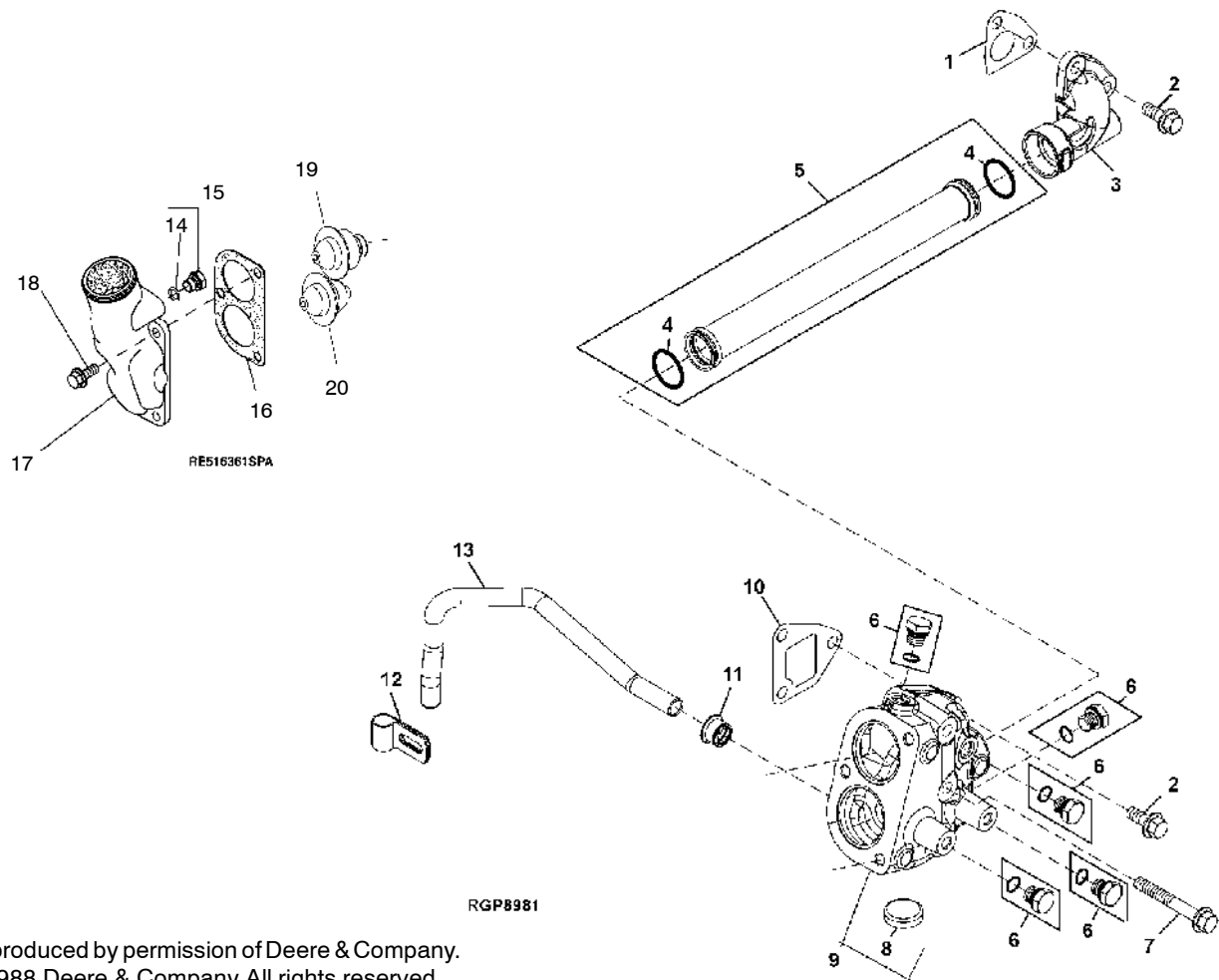
Group 5: Thermostat



Item	Part Number	Description	Quantity		
			2102	Variation 2156a	2156b
1	#	Screw, M10 x 70	1		
1	#	Screw, M10 x 50		1	1
2	GM21508	O-ring	2	1	1
3	360013	Plug	2	2	2
4	GM15403	Plug, pipe	3		
5	#	Screw, M10 x 30	1	1	1
6	360142	Tube	1		
6	GM49898	Tube		1	1
7	#	Screw, M12 x 25	1		
8	360120	Clamp	1		
9	360121	Clamp	1		
10	360116	Gasket, water bypass tube	1	1	1
11	360484	Gasket	1	1	1
12	GM32786	Cover, thermostat	1		
12	GM49827	Cover		1	1
13	GM32812	Thermostat	1	1	
13	223595	Thermostat			1

Common hardware; procure locally

Group 5: Thermostat

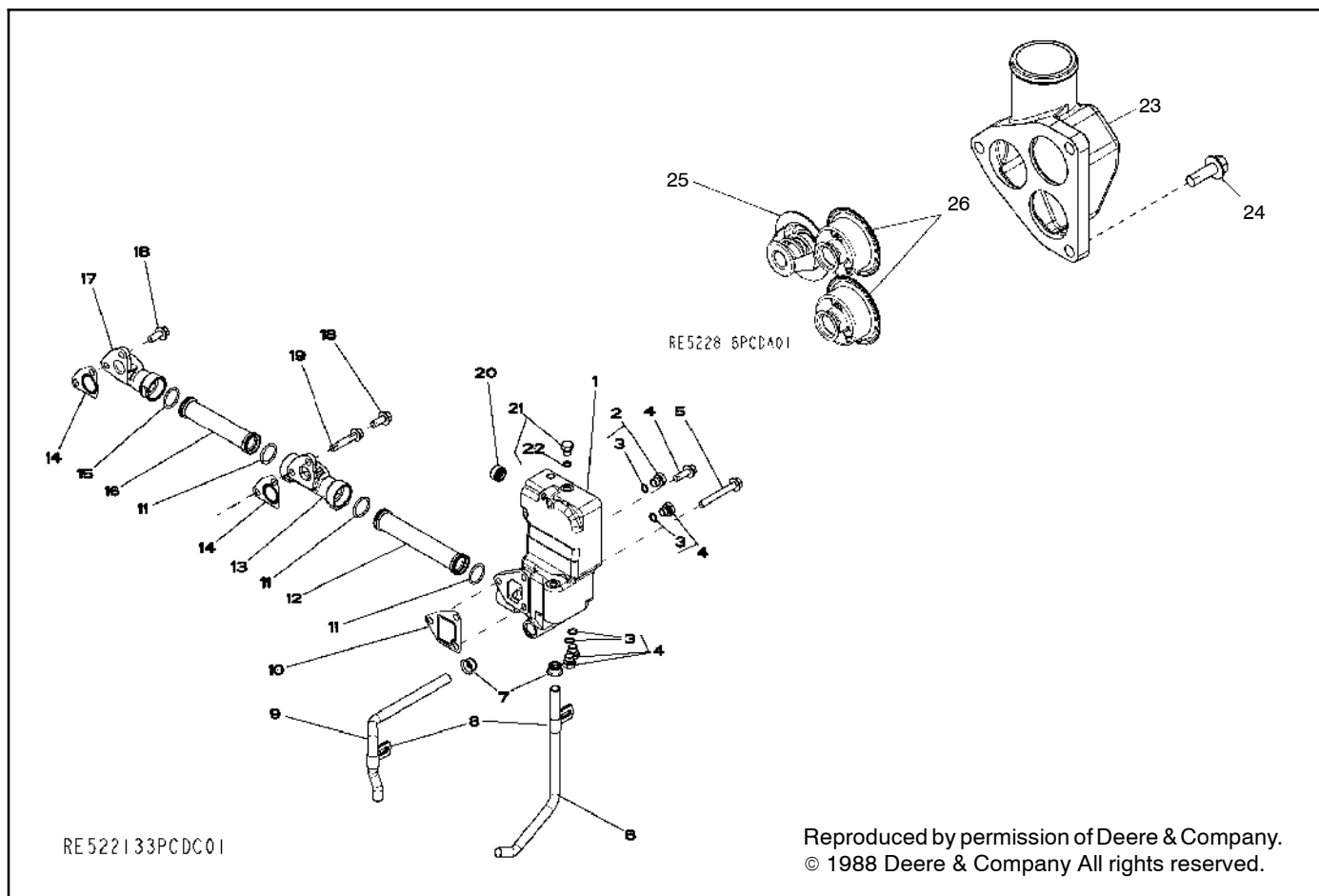


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Item	Part Number	Description	Quantity Variation 3910
1	GM46590	Gasket	1
2	#	Screw, M10 x 25	3
3	GM46592	Manifold	1
4	GM46594	O-ring	1
5	GM46595	Tube	1
6	360013	Plug	5
7	#	Screw, M10 x 80	2
8	223448	Cap	1
9	GM46596	Housing	1
10	GM46597	Gasket	1
11	360116	Gasket, water bypass tube	1
12	360121	Clamp	1
13	GM46598	Tube	1
14	GM21508	O-ring	1
15	360013	Plug	1
16	223762	Gasket	1
17	GM46593	Cover	1
18	#	Screw, M10 x 25	3
19	GM46591	Thermostat, 82°C (180°F)	1
20	223676	Thermostat	1

Common hardware; procure locally

Group 5: Thermostat, continued

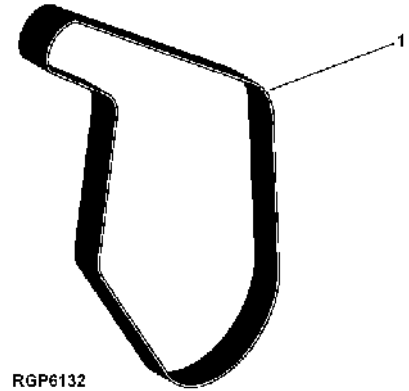


Item	Part Number	Description	Quantity Variation 3917
1	GM49916	Housing	1
2	360013	Plug	4
3	GM21508	O-ring	1
4	#	Screw, M10 x 30	1
5	#	Screw	1
6	GM49858	Tube	1
7	360116	Gasket, water bypass tube	2
8	360121	Clamp	2
9	GM49847	Tube	1
10	GM46597	Gasket	1
11	GM46594	O-ring	2
12	GM49935	Tube	1
13	GM49875	Manifold	1
14	GM46590	Gasket	2
15	GM46594	O-ring	2

Common hardware; procure locally

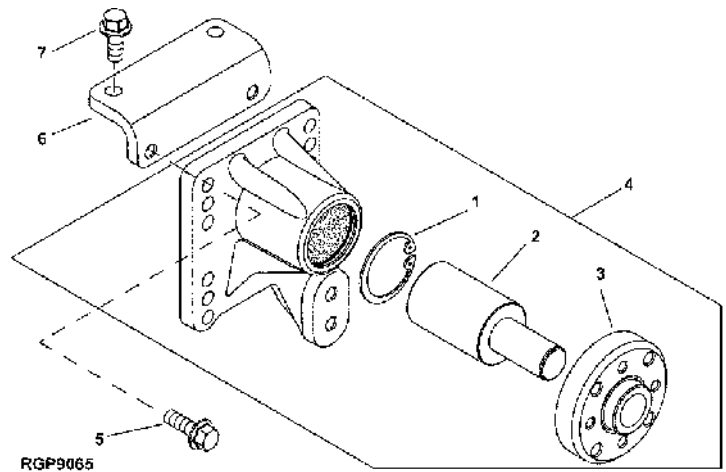
Item	Part Number	Description	Quantity Variation 3917
16	GM50011	Tube	1
17	GM46592	Manifold	1
18	#	Screw, M10 x 25	3
19	#	Screw, M10 x 55	1
20	352858	Seal	1
21	360015	Plug	1
22	360178	O-ring	1
23	GM49857	Cover	1
24	#	Screw, M10 x 30	3
25	GM50047	Thermostat	3
26	GM49907	Seal	3

Group 6: Fan Belt



Item	Part Number	Description	Quantity						
			Variation						
			2419	2429	2480	2427	24EX	24GG	2430
1	GM32901	V-belt, 1630 mm	1						
1	360177	V-belt, 1650 mm			1				
1	GM47473	V-belt, 1625 mm		1					
1	GM19306	V-belt, 65.9 in.				1			
1	GM64496	V-belt					1		
1	352793	V-belt, 1700 mm						1	
1	GM86400	V-belt, 1635 mm							1

Group 7: Fan Drive

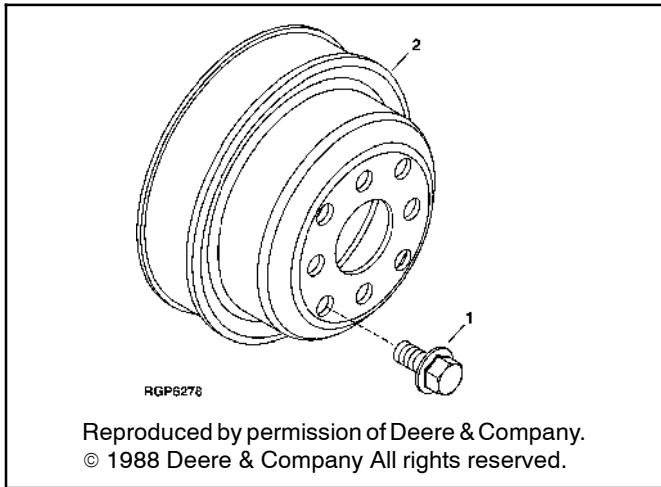


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Item	Part Number	Description	Quantity	
			Variation	
			2312	2341
1	223730	Snap ring	1	1
2	X	Shaft	1	1
3	X	Hub	1	1
4	GM23844	Support	1	1
5	#	Screw, M10 x 35	4	
5	#	Screw, M10 x 30		4
6	GM46599	Bracket		1
7	#	Screw, M10 x 30		2

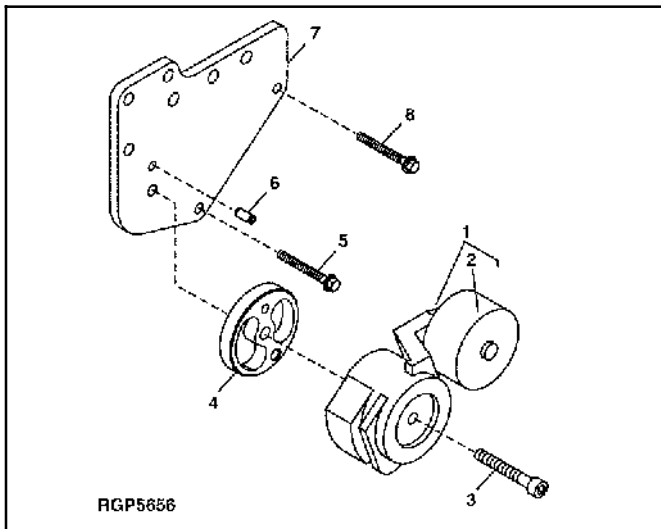
Common hardware; procure locally
X Not sold separately

Group 8: Fan Pulley



Item	Part Number	Description	Quantity		
			Variation		
8610	8611	8612			
1	GM32765	Screw, M10 x 20	4	4	4
2	360578	Pulley, fan	1		
2	360143	Pulley, fan		1	
2	GM24522	Pulley			1

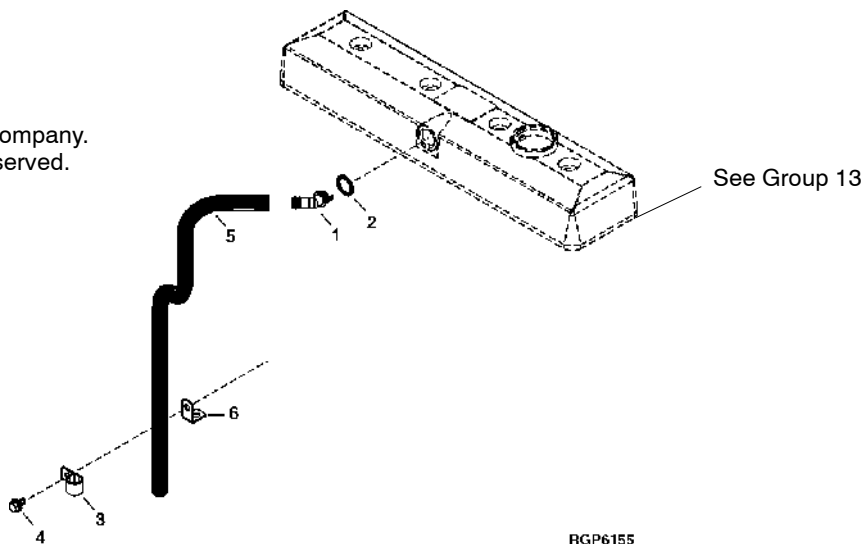
Group 9: Belt Tensioner



Item	Part Number	Description	Quantity			
			Variation			
8702	8717	8724	8727			
1	360075	Tensioner	1	1		
1	GM49938	Tensioner			1	1
2	X	Bolt	1			1
2	GM46600	Bolt		1		
3	#	Screw	1	1	1	1
4	GM24520	Spacer	1	1		
4	GM49836	Spacer			1	1
5	#	Screw	1	1		
6	GM46601	Pin, spring	1	1	1	1
7	GM24521	Support	1			
7	GM46602	Support		1		
7	GM49896	Strap			1	
7	GM52515	Support				1
8	#	Screw, M8 x 60	1	1	1	1

Group 10: Vent Tube

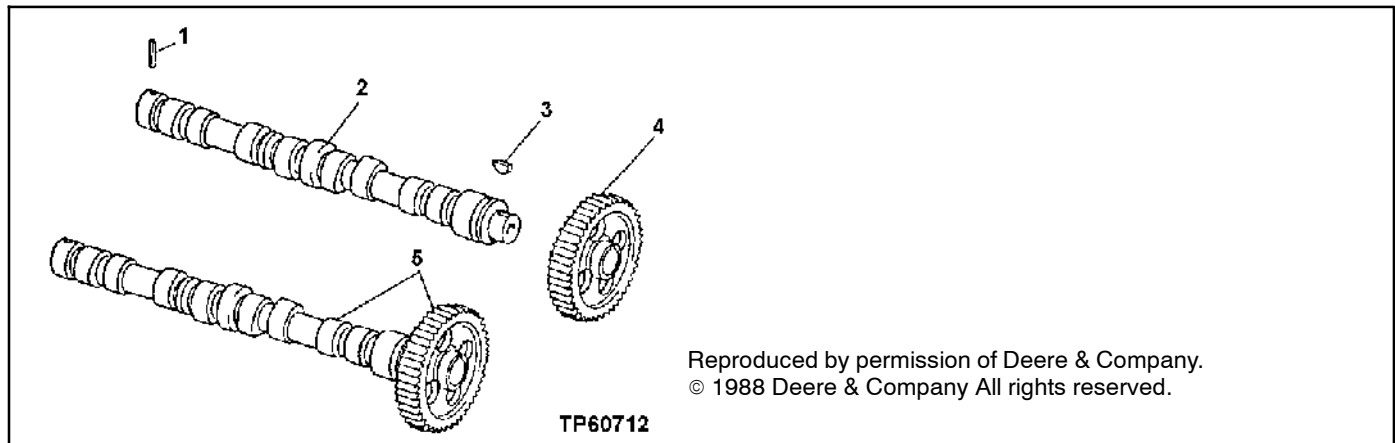
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Item	Part Number	Description	Quantity		
			2905	Variation 2917	2957
1	GM24523	Fitting, elbow	1		
1	360098	Fitting, elbow		1	1
2	223851	O-ring	1	1	1
3	360530	Clamp	1		1
4	#	Screw, M10 x 16	1		
4	#	Screw, M10 x 16			1
5	223450	Hose	1		
5	224237	Hose, 1350 mm		1	
6	GM24524	Bracket	1		

Common hardware; procure locally

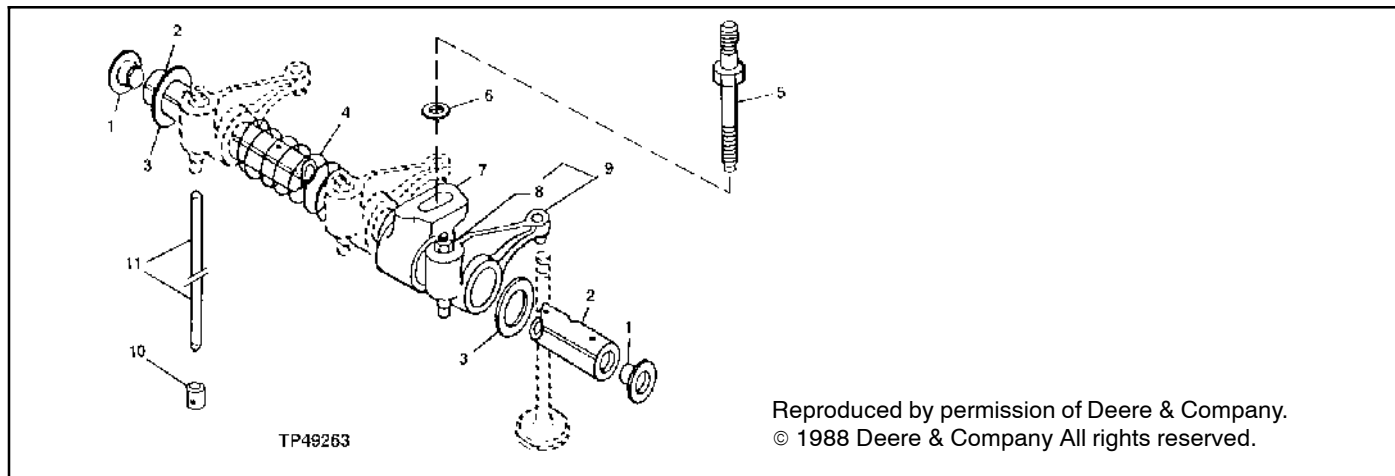
Group 11: Camshaft



Item	Part Number	Description	Quantity				
			4613	4611	Variation 4633	4644	4653
1	X	Spring pin	NA	NA			
2	X	Camshaft (order item 5)	1	X			
3	360158	Key, shaft	1	1		1	1
4	X	Gear (order item 5)	1	1			
5	GM32931	Camshaft	1				1
5	GM46603	Camshaft		1			
5	GM50039	Camshaft				1	
5	GM50071	Camshaft			1		

X Not sold separately

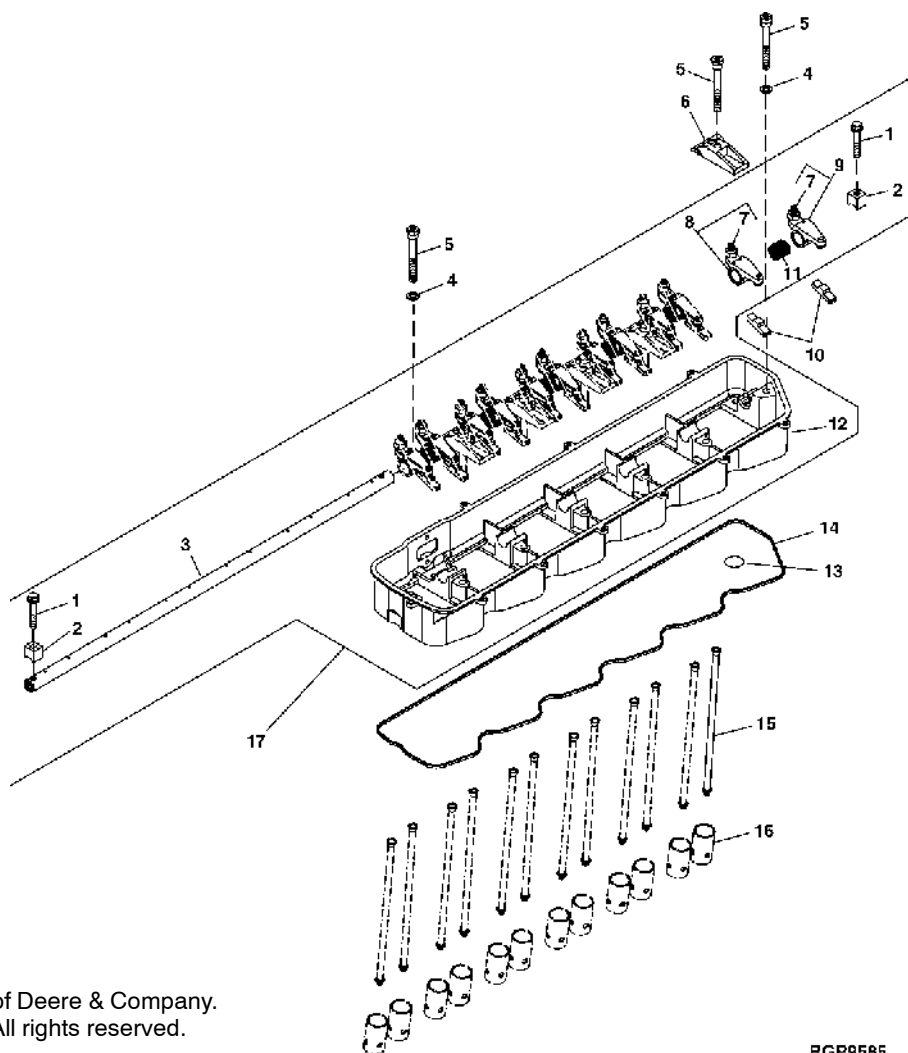
Group 12: Valve Train



Item	Part Number	Description	Quantity
			Variation 4902
1	223480	Plug	2
2	360132	Shaft	1
3	223634	Washer	2
4	223632	Spring	5
5	360118	Stud	6
6	223756	Washer	6
7	360112	Support	6
8	#	Nut, M10	1
9	360072	Arm, rocker	12
10	360135	Tappet	12
11	352026	Rod, push	12

Common hardware; procure locally

Group 12: Valve Train



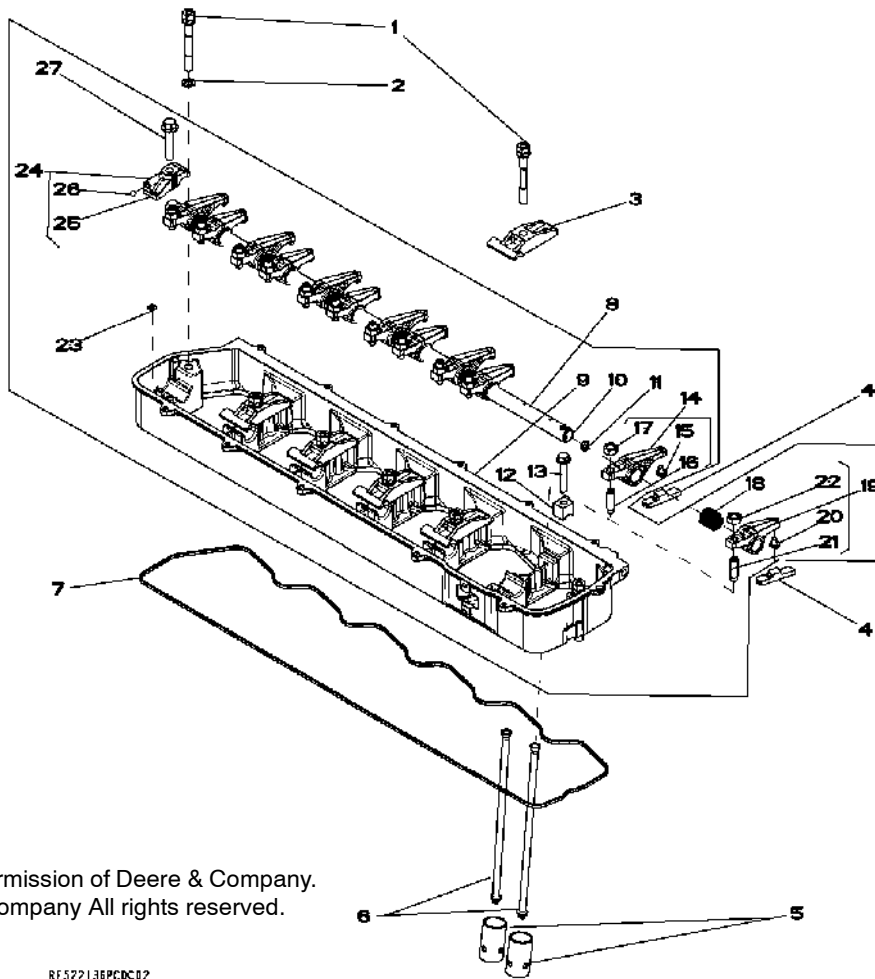
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RGF9585

Item	Part Number	Description	Quantity
			Variation 4903
1	#	Screw, M8 x 50	2
2	GM46604	Clamp	2
3	GM46605	Rocker arm shaft	1
4	#	Washer, 10.5 x 18 x 1.6 mm	2
5	GM46606	Stud	7
6	GM46607	Strap	5
7	#	Nut, M10	1
8	GM46608	Rocker arm, intake valve	6
9	GM46609	Rocker arm, exhaust valve	6
10	GM46610	Lever	12
11	GM46611	Spring	6
12	GM46612	Support	1
13	224011	O-ring	1
14	GM46613	Gasket	1
15	GM46614	Push rod	12
16	360135	Tappet	12
17	GM46615	Rocker arm shaft	1

Common hardware; procure locally

Group 12: Valve Train, continued



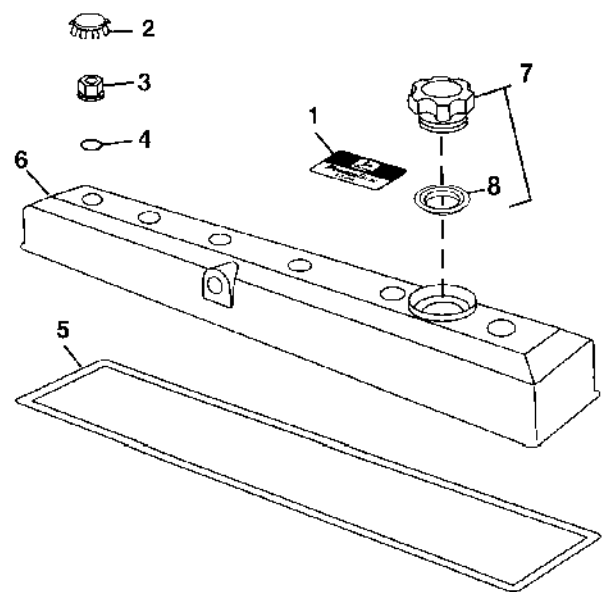
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RE522138PCDC02

Item	Part Number	Description	Quantity Variation 4905
1	GM49902	Screw	7
2	#	Washer	2
3	GM46607	Strap	5
4	GM46610	Lever	12
5	360135	Tappet	12
6	GM46614	Push rod	12
7	GM46613	Gasket	1
8	GM49992	Rocker arm shaft	1
9	GM49842	Housing	1
10	GM46605	Rocker arm shaft	1
11	GM49818	Plug	2
12	GM46604	Clamp	1
13	#	Screw, M8 x 50	1
14	GM46609	Rocker arm, exhaust valve	6
15	360072	Arm, rocker	1
16	—	Screw	1
17	#	Nut	1
18	GM46611	Spring	6
19	GM50007	Rocker arm	6
20	360072	Arm, rocker	1
21	—	Screw	1
22	#	Nut	1
23	GM49886	O-ring, 6.020 x 2.620 mm	1
24	GM50008	Cap	1
25	GM50008	Cap	1
26	GM49930	Ball	1
27	#	Screw, M10 x 50	1

Common hardware; procure locally

Group 13: Rocker Arm Cover



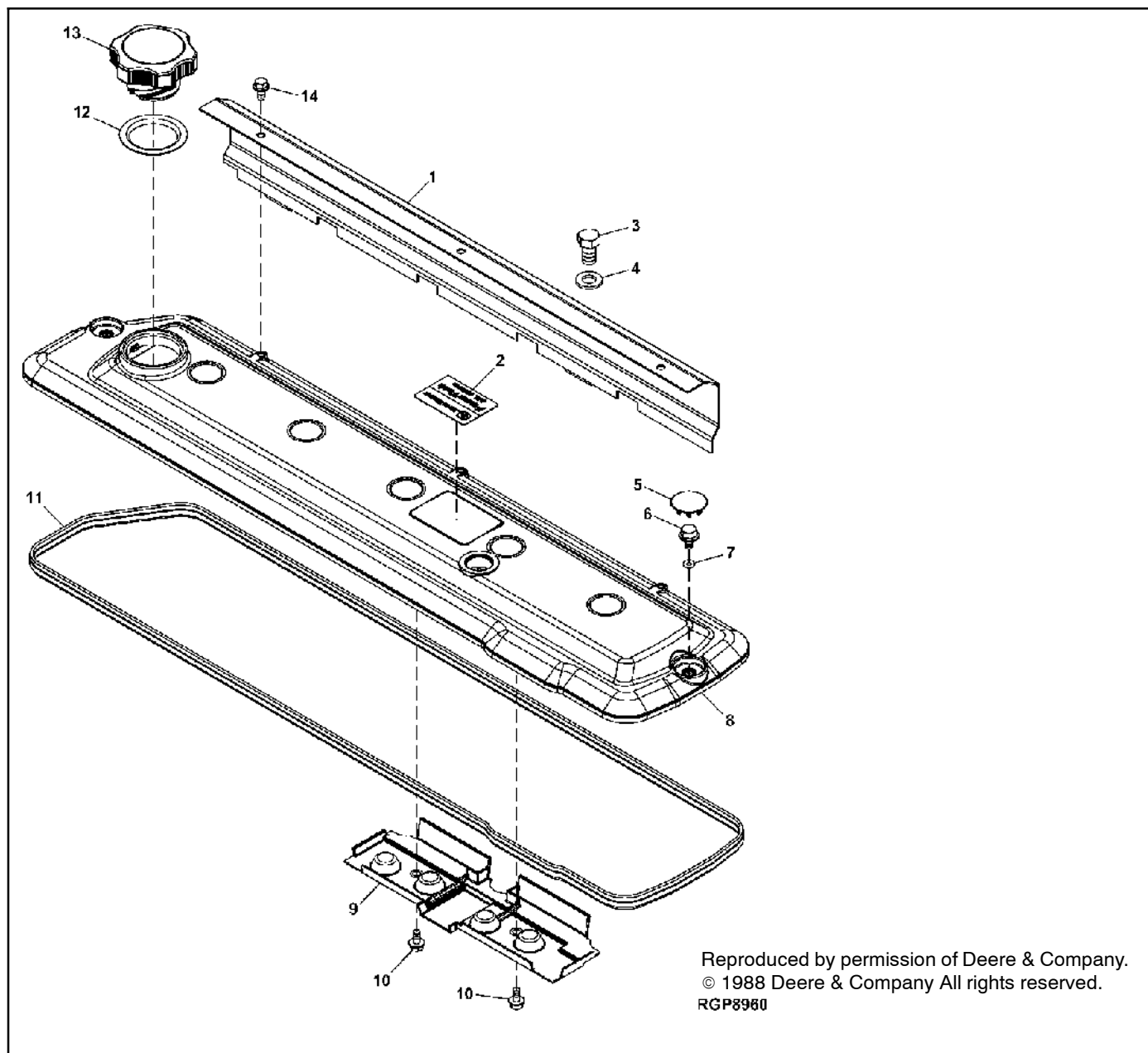
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RGP6461

Item	Part Number	Description	Quantity
			Variation 1108
1	X	Medallion	1
2	360004	Plug	6
3	360138	Nut	6
4	360139	O-ring	6
5	360134	Gasket	1
6	GM24525	Cover, valve	1
7	360018	Cap, oil fill (includes packing)	1
8	GM17493	Packing	1

X Not sold separately

Group 13: Rocker Arm Cover, continued



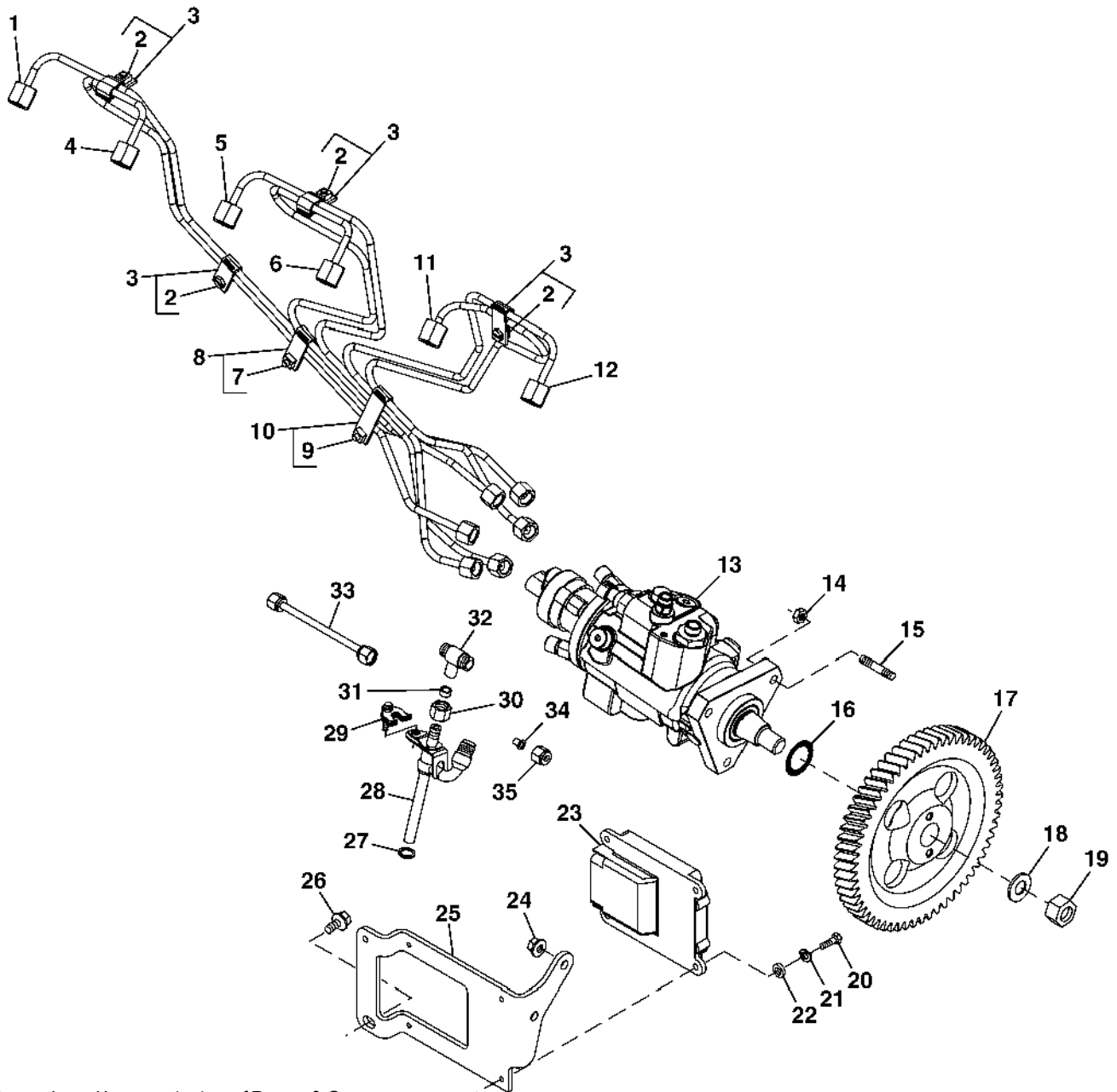
Group 13: Rocker Arm Cover, continued

Item	Part Number	Description	Quantity		
			Variation		
			1120	1137	1159
1	GM46616	Heat shield	1		
1	GM49911	Heat shield			1
2	X	Medallion	1		
3	#	Screw, cap, M12 x 20	2		
3	#	Screw, M6 x 12			3
4	#	Washer	2		
5	360004	Plug	7	7	6
6	GM46617	Screw	7		
6	GM49900	Screw		7	
6	360138	Nut			6
7	GM46618	O-ring	7		
7	360139	O-ring		7	6
8	GM46619	Cover	1		
8	GM49910	Cover, valve		1	
8	GM49884	Cover, valve			1
9	GM46620	Deflector	1	1	
9	GM50069	Deflector			1
10	#	Screw, M6 x 16	2	2	
10	#	Screw, M6 x 20			1
11	GM46613	Gasket	1	1	
11	GM49929	Gasket			1
12	GM17493	Packing	1	1	1
13	360018	Cap, oil filler (includes packing)	1	1	1
14	#	Screw, M6 x 12	3		

Common hardware; procure locally

X Not sold separately

Group 14: Fuel Injection Pump



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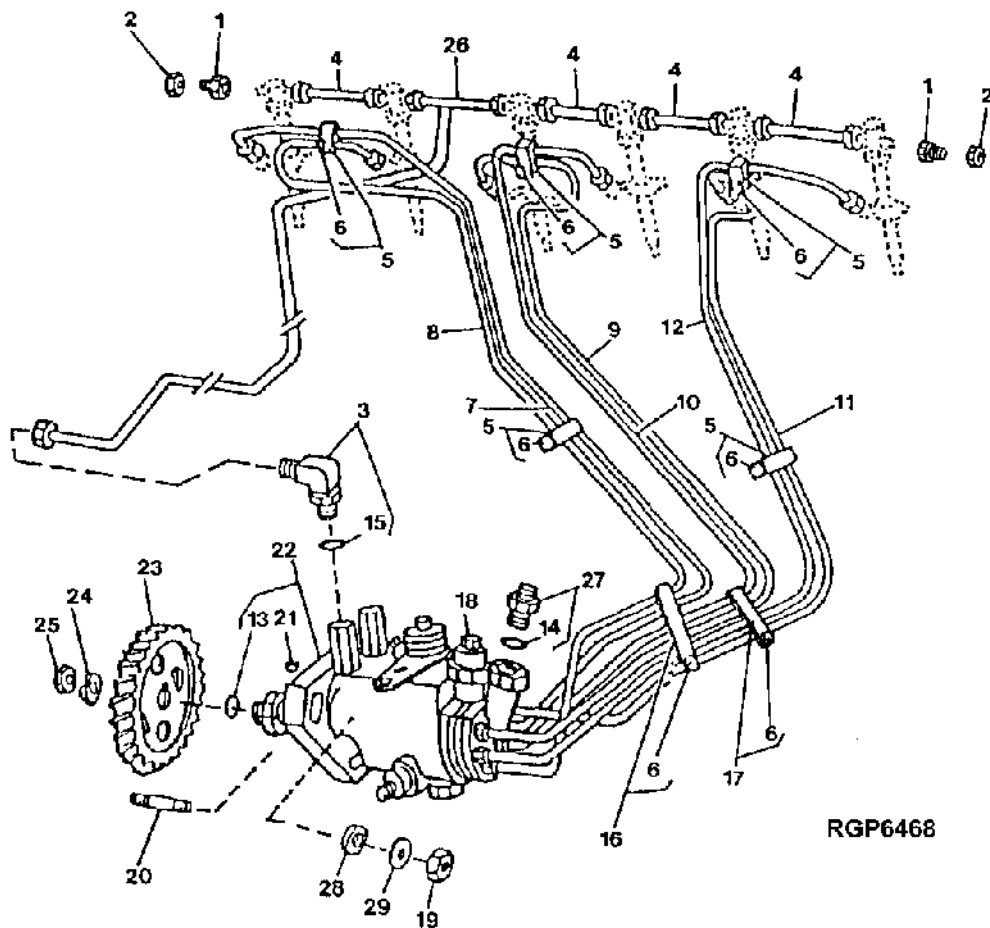
RGP9006

Group 14: Fuel Injection Pump

Item	Part Number	Description	Quantity
			Variation 163E
1	GM34517	Line, fuel, no. 6	1
2	#	Screw, M6 x12	5
3	223572	Clamp	4
4	GM34518	Line, fuel, no. 5	1
5	GM34519	Line, fuel, no. 4	1
6	GM34520	Line, fuel, no. 3	1
7	#	Screw	1
8	224071	Clamp	1
9	#	Screw, M6 x 12	1
10	224070	Clamp	1
11	GM34521	Line, fuel, no. 2	1
12	GM34522	Line, fuel, no. 1	1
13	GM34523	Pump, fuel injection	1
14	#	Nut, flange, no. 5	3
15	360092	Stud	3
16	GM17487	O-ring	1
17	GM32798	Gear	1
18	GM17456	Washer	1
19	224161	Nut	1
20	#	Screw, cap	4
21	#	Washer, lock, no. 6	4
22	#	Washer, 5.300 x 10 x 1 mm	4
23	GM34524	Controller, engine (ECU)	1
24	#	Nut, flange, M8	2
25	GM32793	Bracket	1
26	#	Screw, M10 x 20	1
27	224285	Packing	6
28	GM32819	Nozzle, injection	6
29	GM32825	Clamp	6
30	223517	Nut, tube	6
31	223518	Washer	6
32	360167	Fitting, tee	6
33	360535	Tube	4
34	223710	Plug	2
35	360141	Nut, tube	2

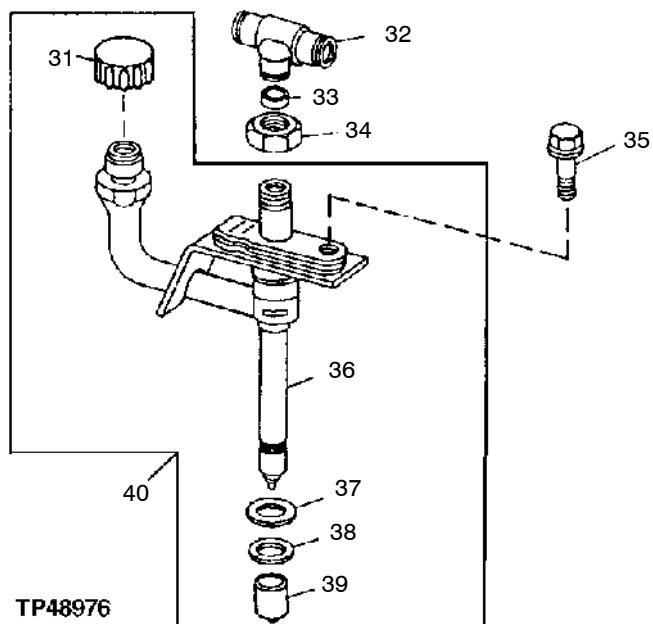
Common hardware; procure locally

Group 14: Fuel Injection Pump, continued



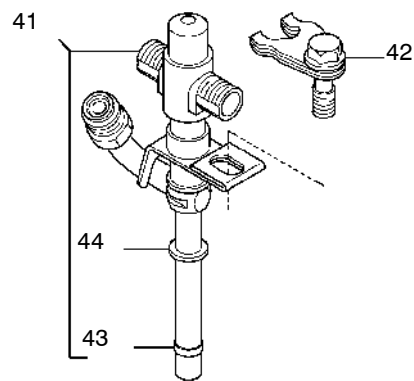
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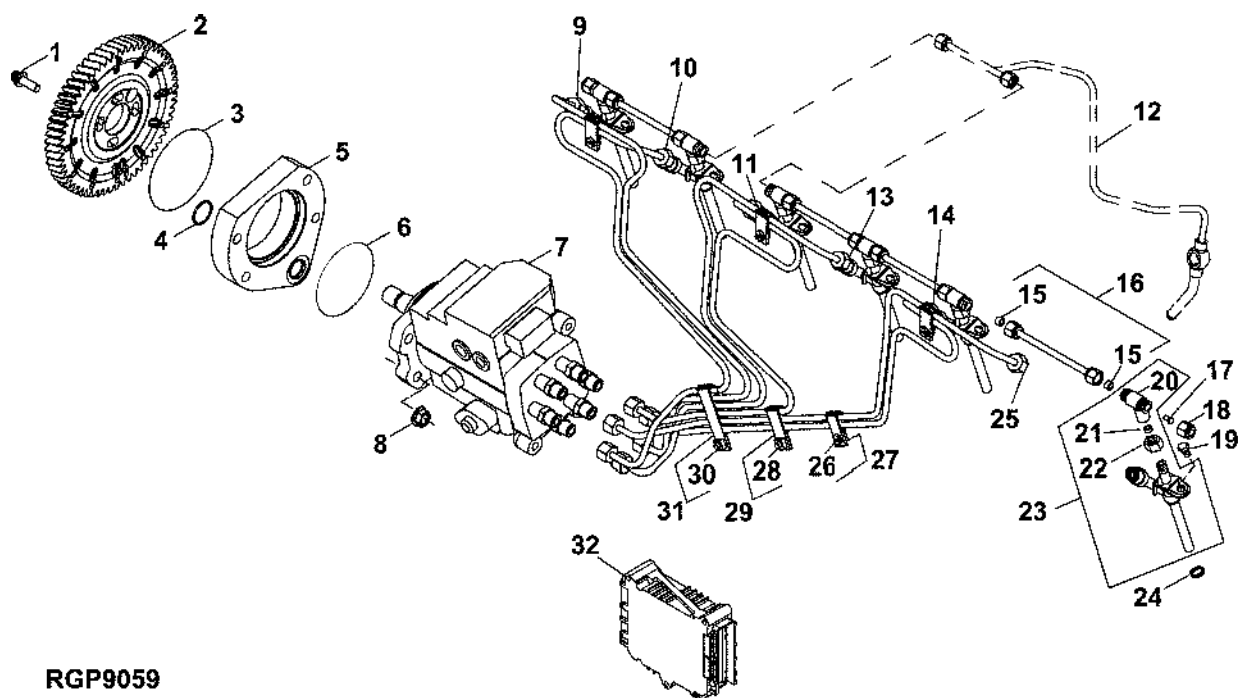
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Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity		
			16YS	Variation 16YT	161Q
1	223710	Plug	2	2	2
2	360141	Nut, tube	2	2	2
3	GM32920	Fitting	1	1	1
4	360535	Tube	4	4	4
5	223572	Clamp	4	4	4
6	#	Screw, cap, M6 x 12	6	6	6
7	GM32932	Fuel line, no. 1	1	1	
7	GM34522	Fuel line, no. 1			1
8	GM32933	Fuel line, no. 2	1	1	
8	GM34521	Fuel line, no. 2			1
9	GM32934	Fuel line, no. 3	1	1	
9	GM34520	Fuel line, no. 3			1
10	GM32935	Fuel line, no. 4	1	1	
10	GM34519	Fuel line, no. 4			1
11	GM32936	Fuel line, no. 5	1	1	
11	GM34518	Fuel line, no. 5			1
12	GM32937	Fuel line, no. 6	1	1	
12	GM34517	Fuel line, no. 6			1
13	GM32902	O-ring	1	1	1
14	360178	O-ring	1	1	1
15	GM32896	O-ring	1	1	1
16	224070	Clamp	1	1	1
17	223573	Clamp	1	1	1
18	GM32956	Solenoid	1	1	1
19	#	Nut, M8	3	3	3
20	360092	Stud	3	3	3
21	223406	Shaft key	1	1	1
22	GM32928	Pump, fuel injection	1		
22	GM32929	Pump, fuel injection		1	
22	GM32907	Adapter	1	1	
22	GM34523	Pump, fuel injection			1
23	GM32908	Gear	1	1	1
24	GM17456	Washer	1	1	1
25	224161	Nut	1	1	1
26	GM32959	Line, fuel	1	1	1
27	360037	Adapter	1	1	1
28	224338	Washer	3	3	3
29	#	Washer, lock, 8mm	3	3	3
30	GM32926	Controller, engine (ECU)	1		
30	GM32927	Controller, engine (ECU)		1	
30	GM32840	Controller, engine (ECU)			1
31	—	Cap	1		
32	360167	Fitting, tee	1		
33	223518	Washer	1		
34	223517	Nut, tube	1		
35	360091	Screw	1		
36	—	Nozzle (order item 40)	1		
37	224285	Packing	1		
38	GM17473	Washer	1		
39	224257	Plug	1		
40	GM32930	Nozzle, injection (does not include item 38)	1		
41	GM32819	Nozzle, injection		1	1
42	GM32825	Clamp		1	1
43	—	Seal		1	1
44	GM17473	Packing		1	1

Common hardware; procure locally

Group 14: Fuel Injection Pump, continued



RGP9059

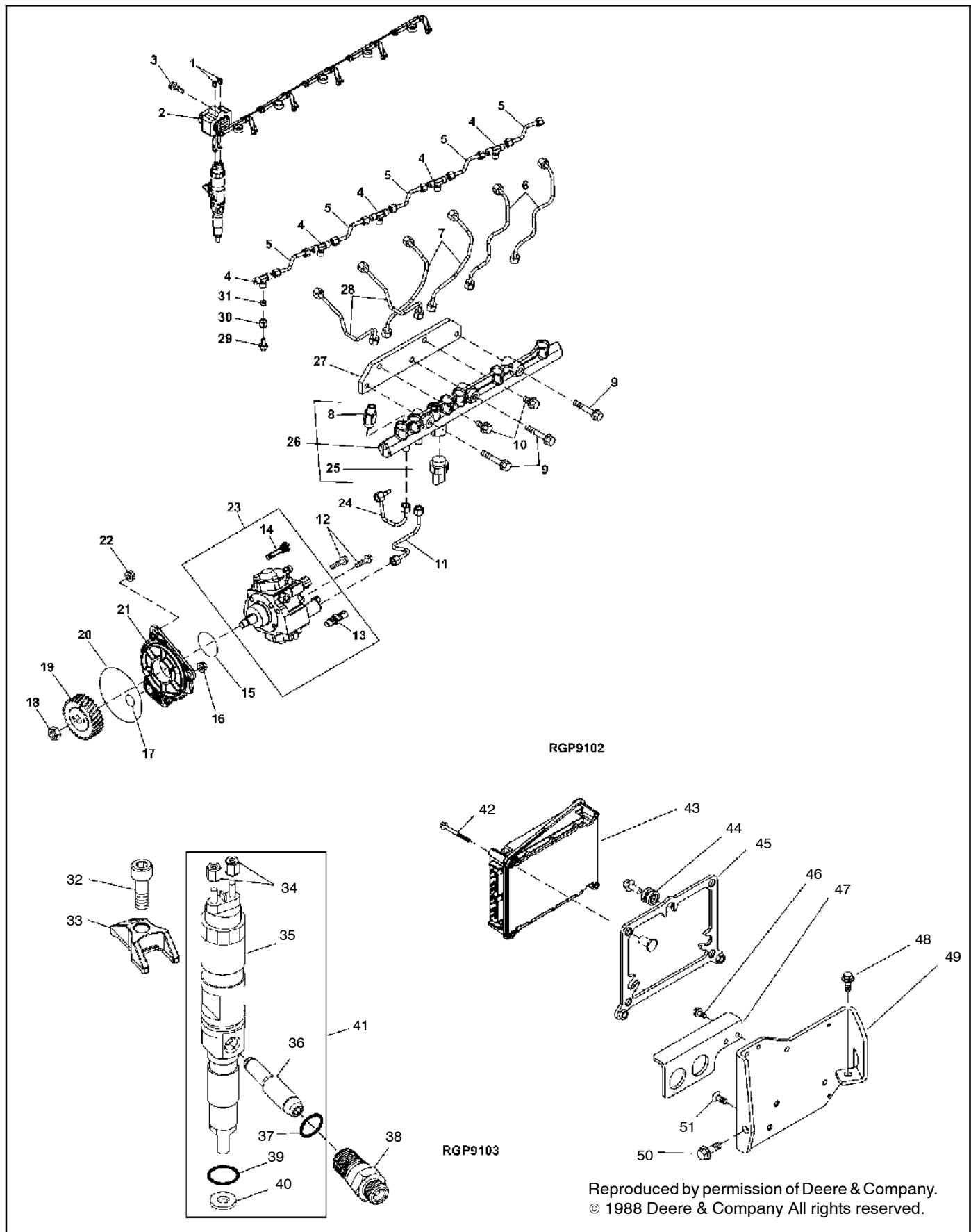
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Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity	
			Variation	
			162B	162C
1	GM32914	Screw	4	4
2	GM32915	Gear	1	1
3	GM32900	O-ring	1	1
4	GM32963	O-ring	1	1
5	GM32907	Adapter	1	1
6	GM32916	O-ring	1	1
7	GM32948	Pump, fuel injection, 12 V	1	
7	GM32949	Pump, fuel injection		1
8	#	Nut, flange	4	4
9	GM32932	Line, fuel, no. 1	1	1
10	GM32933	Line, fuel, no. 2	1	1
11	GM32934	Line, fuel, no. 3	1	1
12	—	Line, fuel (see group 15)	1	1
13	GM32935	Line, fuel, no. 4	1	1
14	GM32936	Line, fuel, no. 5	1	1
15	223476	Sealing washer	2	2
16	360535	Tube (includes 2 of item 15)	4	4
17	223710	Plug	2	2
18	360141	Nut, tube	2	2
19	360091	Screw	6	6
20	360167	Fitting, tee	6	6
21	223518	Washer	6	6
22	223517	Nut, tube	6	6
23	GM32921	Nozzle, injection	1	1
24	224338	Washer	3	3
25	GM32937	Line, fuel, no. 6	1	1
26	#	Screw, cap, M6 x 12	4	4
27	223572	Clamp	4	4
28	#	Screw, cap, M6 x 12	1	1
29	224071	Clamp	1	1
30	#	Screw, cap, M6 x 12	1	1
31	224070	Clamp	1	1
32	GM32926	Controller, engine (ECU), 12 V	1	
32	GM32927	Controller, engine (ECU), 24 V		1

Common hardware; procure locally

Group 14: Fuel Injection Pump, continued



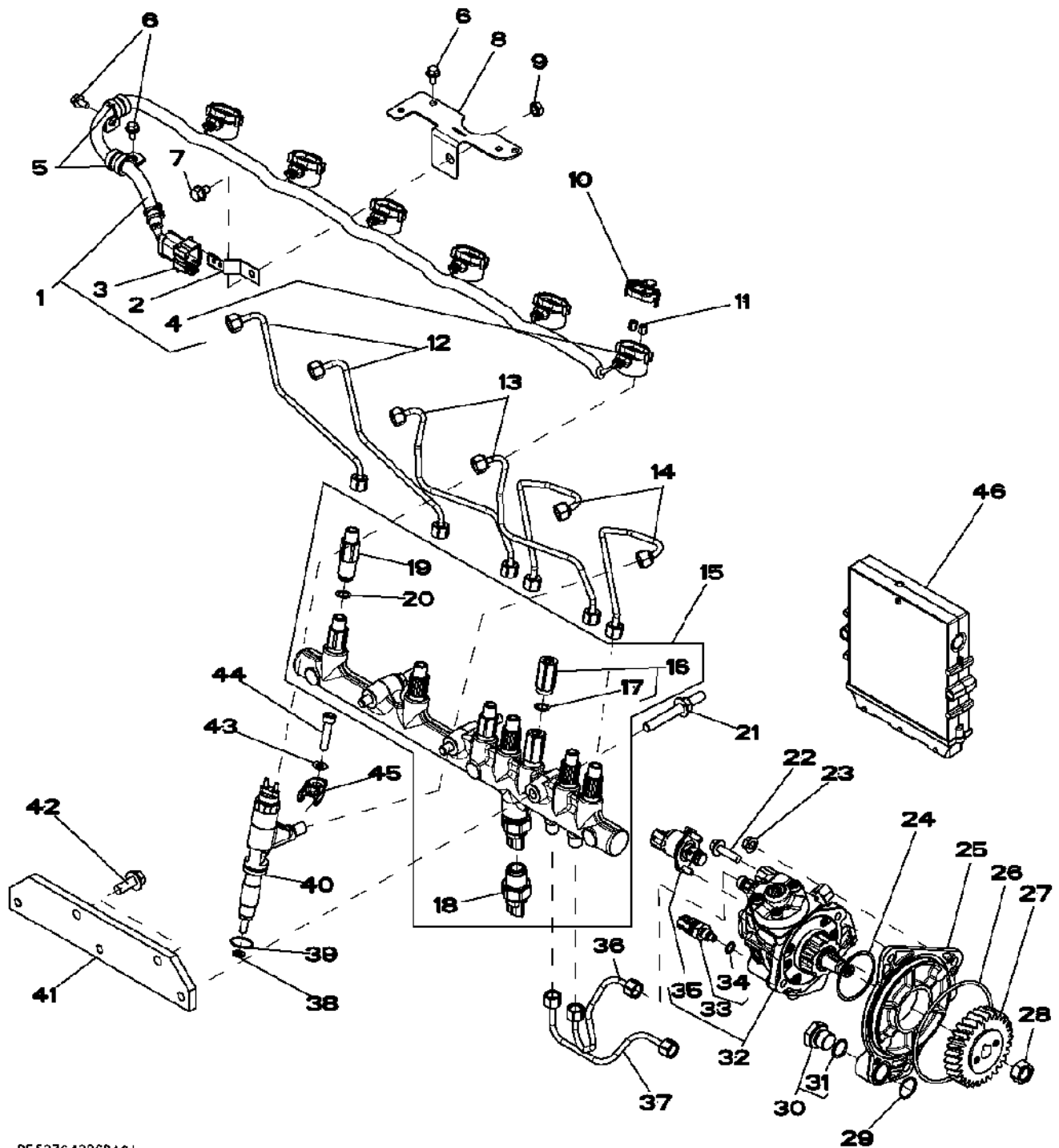
Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity
			Variation 165B
1	GM46621	Nut	12
2	GM46624	Wiring harness	1
3	#	Screw, M6 x 16	2
4	223912	Fitting, tee	6
5	GM46628	Fuel line	4
GM46632	GM46631	Fuel line, no. 5 and 6	2
7	GM46634	Fuel line, no. 3 and 4	2
8	GM46637	Restrictor	6
9	#	Screw, M10 x 55, no. 3	3
10	GM32765	Screw	2
11	GM46640	Fuel line, no. 5	1
12	#	Screw, M8 x 30, no. 6	2
13	GM46641	Sensor, fuel temp	1
14	GM46642	Screen	1
15	GM46643	O-ring	1
16	#	Nut, flange, M8	1
17	GM46644	O-ring	1
18	224161	Nut	1
19	GM46645	Gear	1
20	GM46646	O-ring	1
21	GM46647	Adapter	1
22	#	Nut, flange, M8	2
23	GM46648	Fuel injection pump	1
24	GM46649	Fuel line	1
25	GM46650	Sensor	6
26	GM46651	Rail	1
27	GM46652	Bracket	1
28	GM46653	Fuel line, no. 1 and 2	2
29	GM46654	Fitting	6
30	360141	Nut	14
31	223476	Packing	14
—	360078	Plug, drain	1
32	GM46622	Clamp	1
33	GM46623	Screw, cap	1
34	GM46621	Nut	2
35	X	Injection nozzle	1
36	GM46629	Tube	1
37	GM46631	O-ring	1
38	GM46633	Nut	1
39	GM46635	O-ring	1
40	GM46638	Washer	1
41	GM46639	Injection nozzle	1
42	#	Screw, M6 x 65	4
43	GM46625	Controller, engine (ECU)	1
44	GM46626	Isolator	3
45	GM46627	Bracket	1
46	#	Screw, M8 x 16	2
47	GM46630	Bracket	1
48	#	Screw, M10 x 25	4
49	GM46636	Bracket	1
50	#	Screw, M12 x 35	1
51	#	Screw, M10 x 25	2

Common hardware; procure locally

X Not sold separately

Group 14: Fuel Injection Pump, continued



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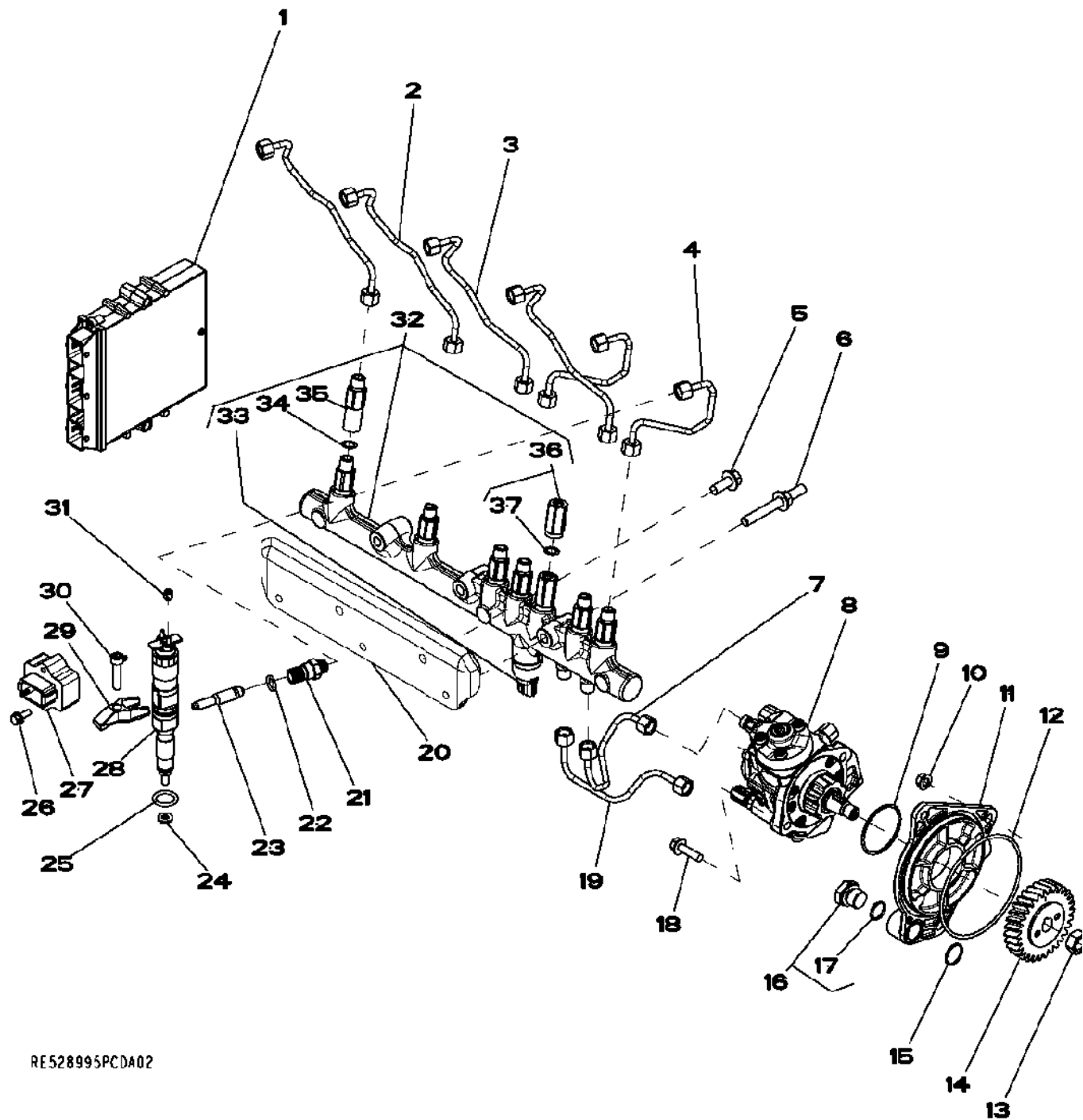
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Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity
			Variation 16A6
1	GM50066	Wiring harness	1
2	GM49889	Bracket	1
3	#	Elec. Connector housing	1
4	GM49915	Seal	1
5	GM50086	Clamp	2
6	GM50057	Screw	4
7	GM50033	Cap screw	1
8	GM49924	Bracket	1
9	—	Weld nut	NA
10	GM50065	Electrical connector cap	6
11	GM46621	Nut	12
12	GM50045	Fuel line	2
13	GM50044	Fuel line	2
14	GM50043	Fuel line	2
15	GM49998	Rail	1
16	GM49936	Pressure relief valve	1
17	GM49835	Shim	1
18	GM49988	Sensor	1
19	GM46637	Restrictor	6
20	GM49835	Shim	6
21	GM49895	Cap screw	3
22	#	Screw, M8 x 30	2
23	#	Flange nut	3
24	GM46643	O-ring	1
25	GM46647	Adapter	1
26	GM46644	O-ring	1
27	GM46645	Gear	1
28	224161	Nut	1
29	GM46646	O-ring	1
30	360078	Plug, drain	1
31	360180	O-ring, 17.3 x 2.2 mm	1
32	GM50052	Fuel injection pump	1
33	GM46641	Sensor, fuel temp	1
34	GM52522	O-ring	1
35	GM77158	Control valve	1
36	GM50049	Fuel line	1
37	GM50050	Fuel line	1
38	GM49927	Sealing washer	6
39	GM46681	O-ring	6
40	GM50080	Electronic unit injector	6
41	GM46652	Bracket	1
42	#	Screw	2
43	—	—	1
44	GM50059	Screw with washer	6
45	GM49883	Clamp	6
46	GM50042	Engine controller	1

Common hardware; procure locally

Group 14: Fuel Injection Pump, continued



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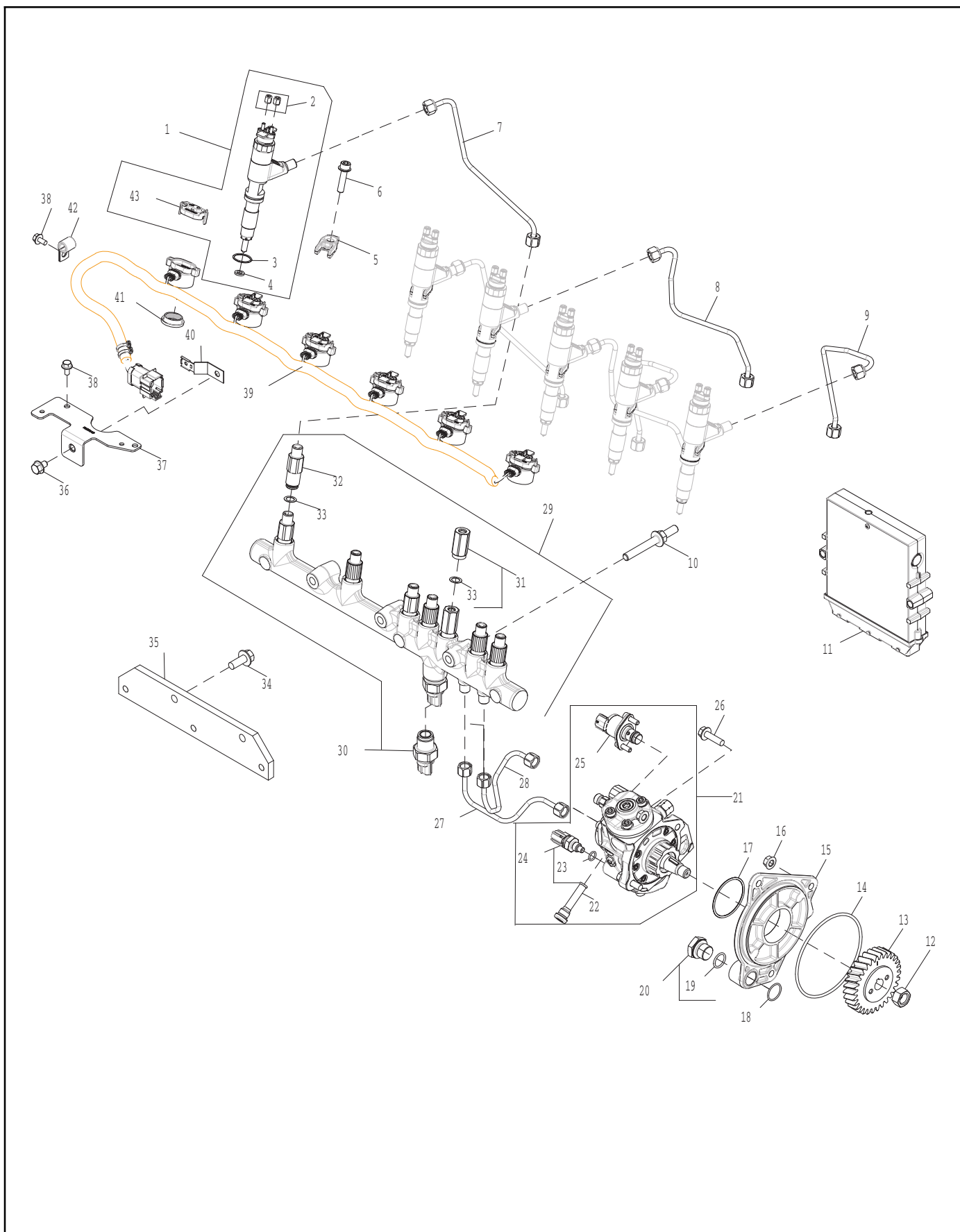
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Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity
			Variation 16C7
GM88728	1 GM49989	Engine controller	1
	2 GM50010	Fuel line, no. 5 and 6	2
	3 GM46634	Fuel line, no. 3 and 4	2
	4 GM46653	Fuel line, no. 1 and 2	2
	5 #	Screw, M10 x 25	2
	6 GM49895	Cap screw	3
	7 GM46649	Fuel line (engine serial number 023716 and below)	1
	7 GM50049	Fuel line (engine serial number 023717 and above)	1
	8 GM50052	Pump, fuel injection	1
	8 GM77158	Control valve	1
	8 GM46641	Fuel temperature sensor	1
	8 GM46642	Screen	1
	9 GM46643	O-ring	1
	10 #	Flange nut	3
	11 GM46647	Adapter	1
	12 GM46644	O-ring	1
	13 224161	Nut	1
	14 GM46645	Gear	1
	15 GM46646	O-ring	1
	16 360078	Plug, drain	1
	17 360180	O-ring, 17.3 x 2.2 mm	1
	18 #	Screw, M8 x 30	2
	19 GM46640	Fuel line (engine serial number 023716 and below)	1
	19 GM50050	Fuel line (engine serial number 023717 and above)	1
	20 GM49904	Bracket	1
	21 GM46633	Nut	6
	22 GM46631	O-ring	6
	23 GM49996	Tube	6
	24 GM46638	Washer	6
	25 GM46635	O-ring	6
	26 #	Screw, M6 x 16	2
	27 GM46624	Wiring harness	1
	28 GM50028	Injection Nozzle Kit	6
	29 GM49839	Clamp	6
	30 GM46623	Cap screw	6
	31 GM46621	Nut	12
	32 GM49998	Rail	1
	33 GM49988	Sensor	1
	34 GM49835	Shim	6
	35 GM46637	Restrictor	6
	36 GM49936	Pressure relief valve	1
	37 GM49835	Shim	1

Common hardware; procure locally

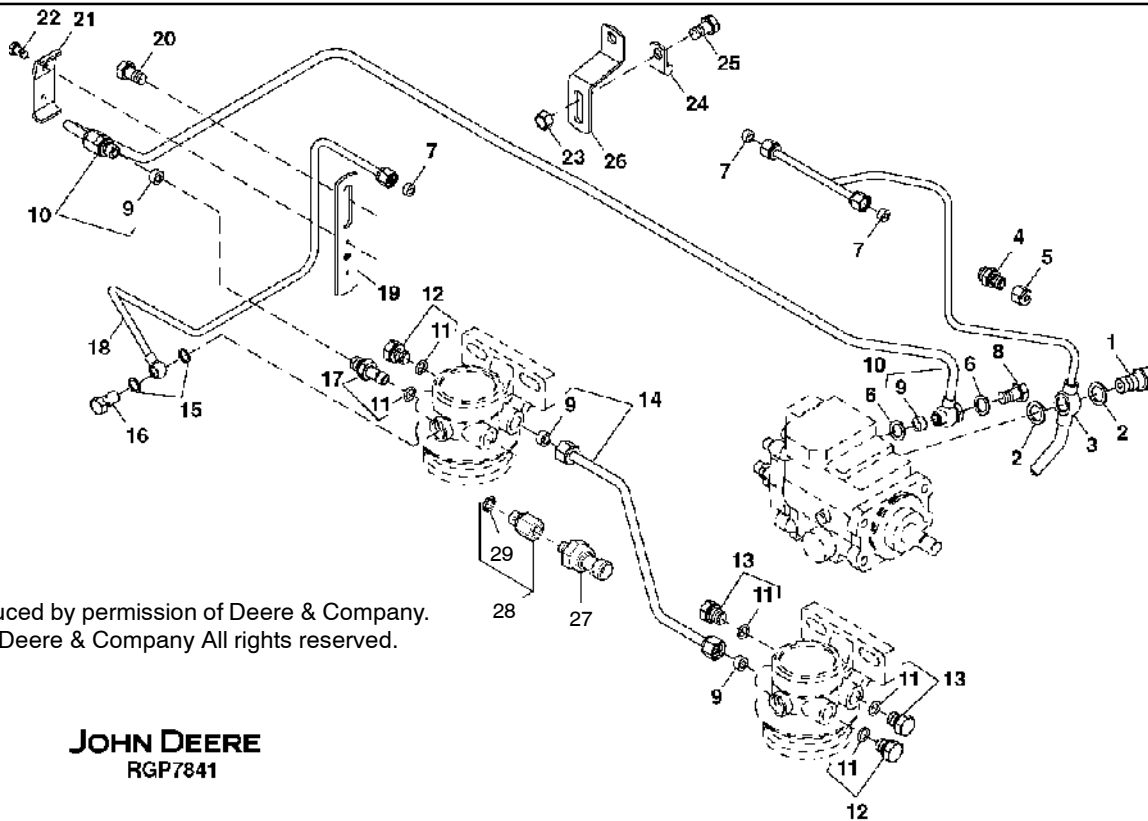
Group 14: Fuel Injection Pump, continued



Group 14: Fuel Injection Pump, continued

Item	Part Number	Description	Quantity
			Variation 16AX
1	GM86401	Injection Nozzle	6
2	GM46621	Nut	2
3	GM46681	O-Ring	1
4	GM50119	Washer	1
5	GM49883	Clamp	6
6	GM50059	Screw With Washer	6
7	GM50045	Fuel Line (Line No. 5 and 6)	2
8	GM50044	Fuel Line (Line No. 3 and 4)	2
9	GM50043	Fuel Line (Line No. 1 and 2)	2
10	GM86402	Stud	3
11	GM50042	Engine Controller	1
12	224161	Nut	1
13	GM46645	Gear	1
14	GM46644	O-Ring	1
15	GM46647	Adapter	1
16	#	Flange Nut, M8	3
17	GM46643	O-Ring	1
18	GM46646	O-Ring	1
19	360180	O-Ring, 17.3 X 2.2 mm	1
20	360078	Plug, Drain	1
21	GM50052	Fuel Injection Pump	1
22	GM46642	Screen	1
23	GM79805	O-Ring	1
24	GM46641	Sensor, Fuel Temp	1
25	GM77158	Control Valve	1
26	#	Screw, M8 X 30	2
27	GM50050	Fuel Line	1
28	GM50049	Fuel Line	1
29	GM49998	Rail	1
30	GM49988	Sensor	1
31	GM49936	Pressure Relief Valve	1
32	GM46637	Restrictor	6
33	GM49835	Shim	6
34	#	Screw, M10 X 25	2
35	GM46652	Bracket	1
36	GM50033	Cap Screw	1
37	GM49924	Bracket	1
38	GM50057	Screw	4
39	GM50066	Wiring Harness	1
40	GM49889	Bracket	1
41	GM49915	Seal	1
42	223666	Clip	2
43	GM50065	Electrical Connector Cap	1

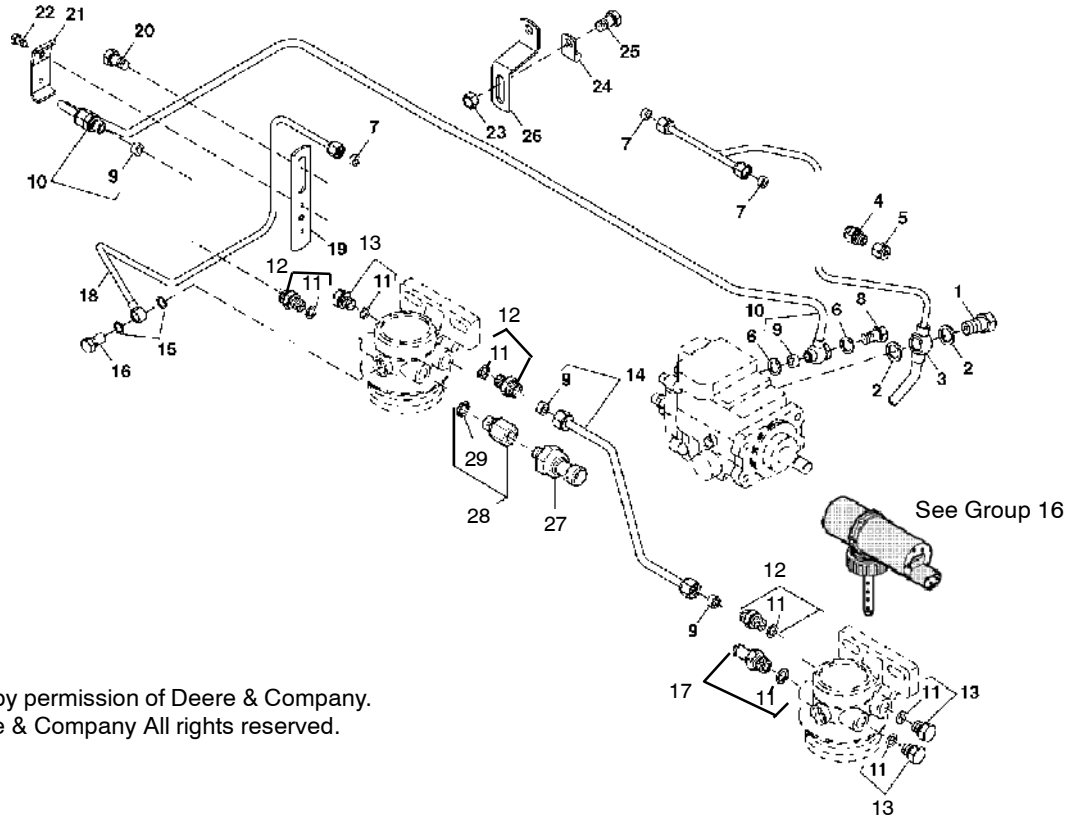
Group 15: Fuel Lines



Item	Part Number	Description	Quantity
			Variation 6317
1	GM32922	Fitting	1
2	GM32918	Washer	2
3	GM32814	Line, fuel	1
4	223710	Plug	1
5	360141	Nut, tube	1
6	GM32912	Washer	2
7	223476	Washer, sealing	3
8	GM32894	Fitting	1
9	GM17494	Washer, sealing	4
10	GM32947	Line, fuel (not as shown)	1
11	360178	O-ring	6
12	360037	Adapter	3
13	360015	Plug	2
14	GM32830	Line, fuel (not as shown)	1
15	GM32917	Washer	2
16	GM32895	Fitting	1
17	GM34530	Adapter	1
18	GM32942	Line, fuel	1
19	GM32913	Bracket	1
20	#	Screw, M10 x 16	1
21	GM32905	Clamp	1
22	#	Cap screw, M4 x 20	2
23	#	Flange nut, M10	1
24	360171	Clamp	1
25	#	Screw, M10 x 20	1
26	GM32797	Bracket	1
27	GM32919	Pressure sensor/switch	1
28		Fitting	1
29	360178	O-ring	1

Common hardware; procure locally

Group 15: Fuel Lines

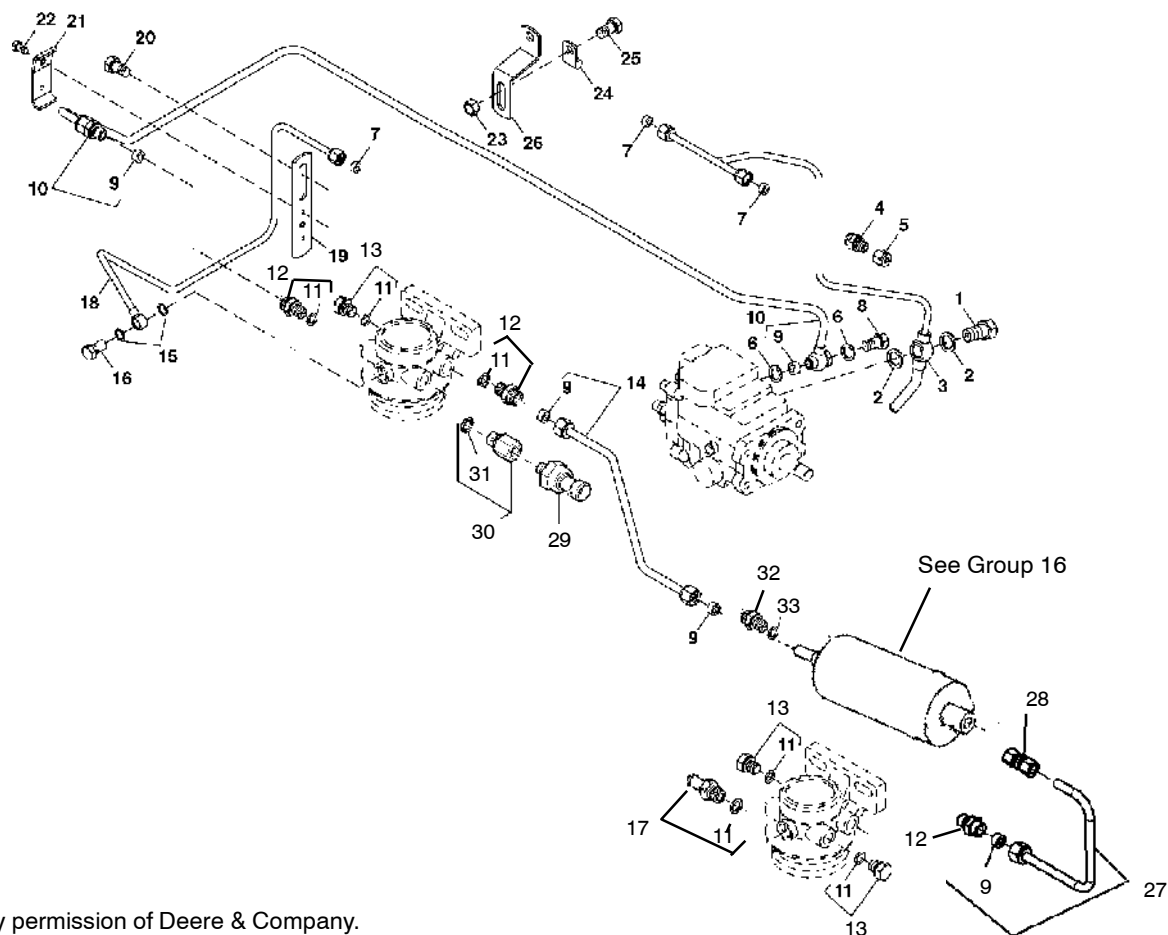


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Item	Part Number	Description	Quantity Variation 6306
1	GM32922	Fitting	1
2	GM32918	Washer	2
3	GM34525	Line, fuel	1
4	223710	Plug	1
5	360141	Nut, tube	1
6	GM32912	Washer	2
7	223476	Washer, sealing	3
8	GM32894	Fitting	1
9	GM17494	Washer, sealing	4
10	GM34526	Line, fuel	1
11	360178	O-ring	6
12	360037	Adapter	3
13	360015	Plug	2
14	GM34528	Line, fuel	1
15	GM32917	Washer	2
16	GM32895	Fitting	1
17	GM34530	Adapter	1
18	GM32942	Line, fuel	1
19	GM32913	Bracket	1
20	#	Screw, M10 x 16	1
21	GM32905	Clamp	1
22	#	Cap screw, M4 x 20	2
23	#	Flange nut, M10	1
24	360171	Clamp	1
25	#	Screw, M10 x 20	1
26	GM32797	Bracket	1
27	GM32919	Pressure sensor/switch	1
28		Fitting	1
29	360178	O-ring	1

Common hardware; procure locally

Group 15: Fuel Lines, continued



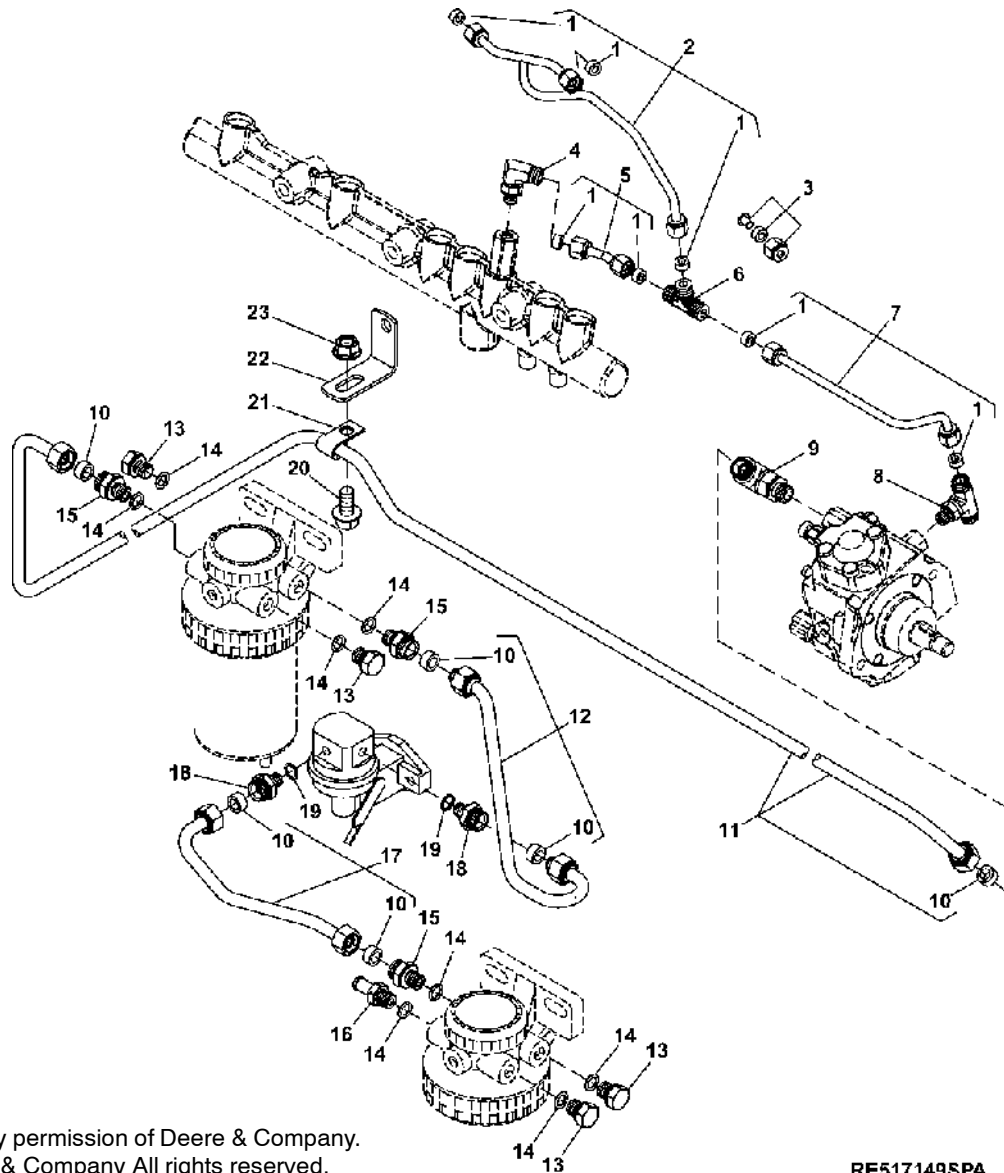
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Item	Part Number	Description	Quantity Variation 6316
1	GM32922	Fitting	1
2	GM32918	Washer	2
3	GM34525	Line, fuel	1
4	223710	Plug	1
5	360141	Nut, tube	1
6	GM32912	Washer	2
7	223476	Washer, sealing	3
8	GM32894	Fitting	1
9	GM17494	Washer, sealing	4
10	GM34526	Line, fuel	1
11	360178	O-ring	6
12	360037	Adapter	3
13	360015	Plug	2
14	GM47100	Line, fuel	1
14	GM34527	Adapter (not shown)	1
14	GM47101	Adapter (not shown)	1
15	GM32917	Washer	2
16	GM32895	Fitting	1

Item	Part Number	Description	Quantity Variation 6316
17	GM34530	Adapter	1
18	GM32942	Line, fuel	1
19	GM32913	Bracket	1
20	#	Screw, M10 x 16	1
21	GM32905	Clamp	1
22	#	Cap screw, M4 x 20	2
23	#	Flange nut, M10	1
24	360171	Clamp	1
25	#	Screw, M10 x 20	1
26	GM32797	Bracket	1
27	GM34529	Fuel line	1
28	GM47102	Union fitting	1
29	GM32919	Pressure sensor/switch	1
30	GM47099	Fitting	1
31	360178	O-ring	1
32	GM17470	Fitting	1
33	GM17471	O-ring	1

Common hardware; procure locally

Group 15: Fuel Lines, continued



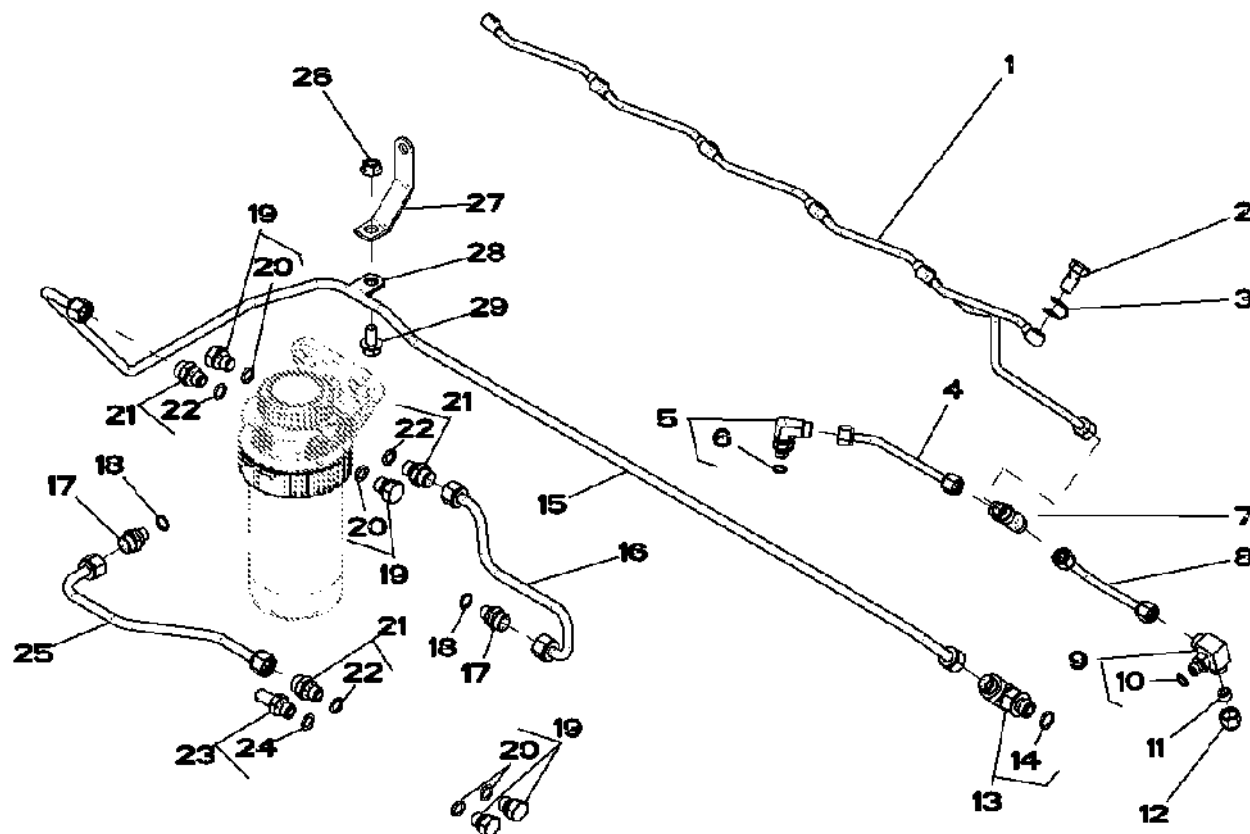
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Item	Part Number	Description	Quantity	Item	Part Number	Description	Quantity
			Variation 6326				Variation 6326
1	223476	Packing	7	13	360015	Plug	4
2	GM46655	Fuel line	1	14	360178	O-ring	8
3	223710	Plug	1	15	GM46662	Fitting	3
4	GM32920	Fitting	1	16	GM34530	Adapter	1
5	GM46656	Fuel line	1	17	GM46663	Fuel line	1
6	223912	Fitting, tee	1	18	GM46664	Adapter	1
7	GM46657	Fuel line	1	19	GM17471	O-ring	2
8	GM46658	Fitting	1	20	GM32765	Screw, M10 x 20	1
9	GM46659	Fitting, elbow	4	21	GM32961	Support	1
10	223835	Packing	6	22	360088	Strap (bracket)	1
11	GM46660	Fuel line	1	23	#	Flange nut	1
12	GM46661	Fuel line	1				

Common hardware; procure locally

Group 15: Fuel Lines, continued



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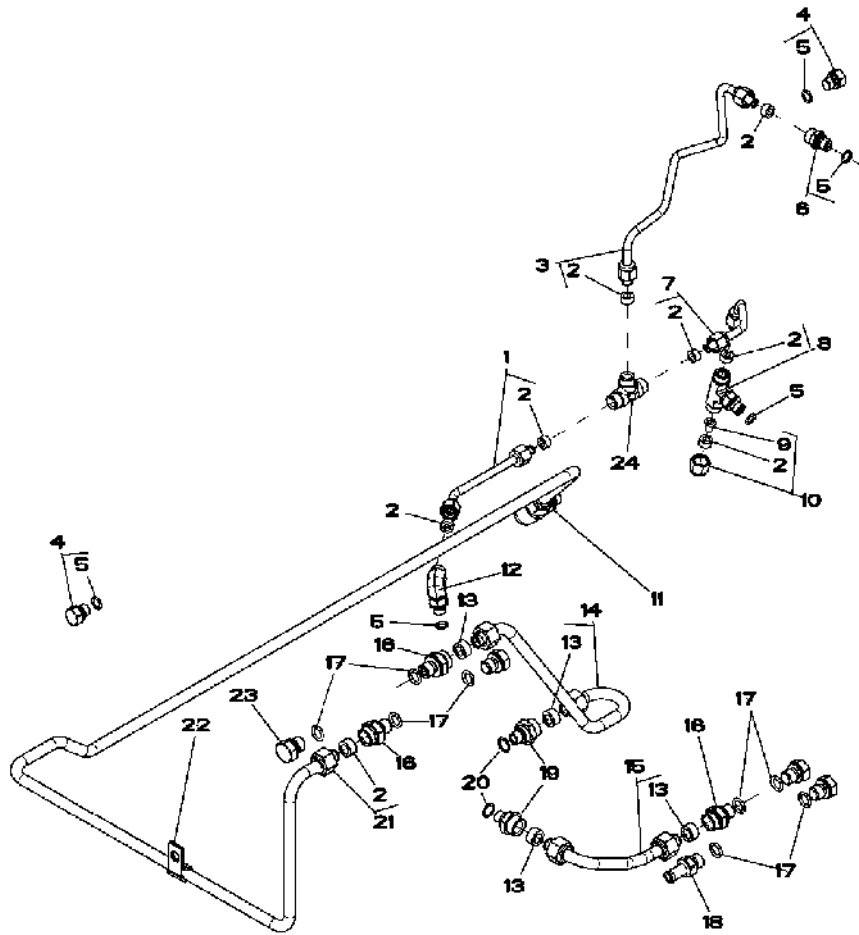
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Item	Part Number	Description	Quantity Variation 6387
1	GM50078	Fuel line	1
2	GM32895	Fitting	6
3	GM49918	Sealing washer	6
4	GM50018	Fuel line	1
5	GM32920	Fitting	1
6	GM32896	O-ring	1
7	223912	Tee fitting	1
8	GM50079	Fuel line	1
9	GM50026	Fitting	1
10	GM32896	O-ring	1
11	223710	Plug	1
12	360141	Nut	1
13	GM50037	Elbow fitting	1
14	GM21508	O-ring	1
15	GM50038	Fuel line	1

Item	Part Number	Description	Quantity Variation 6387
16	GM32830	Line, fuel	1
17	GM17470	Fitting	2
18	GM17471	O-ring	2
19	360015	Plug	4
20	360178	O-ring	1
21	360037	Fitting	3
22	360178	O-ring	1
23	GM34530	Adapter	1
24	360178	O-ring	1
25	GM49934	Fuel line	1
26	#	Flange nut	1
27	GM49832	Bracket	1
28	360171	Clip	1
29	#	Screw	1

Common hardware; procure locally

Group 15: Fuel Lines, continued



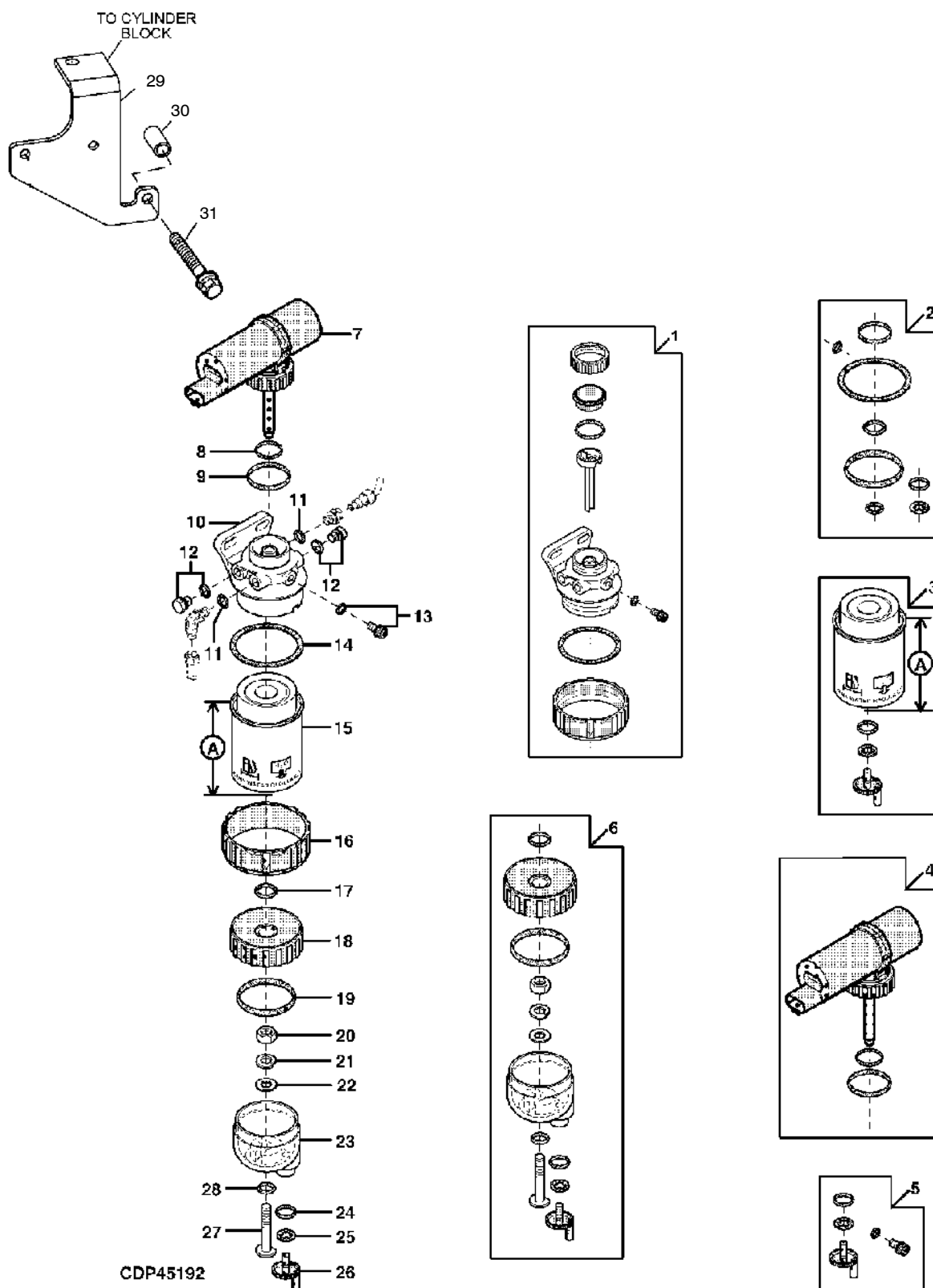
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Item	Part Number	Description	Quantity Variation 6360
1	GM50018	Fuel line	1
2	223476	Packing	2
3	GM50016	Fuel line	1
4	GM24516	Fitting	2
5	GM32896	O-ring	1
6	360036	Fitting	1
7	GM50017	Fuel line	1
8	GM46658	Fitting	1
9	223710	Plug	1
10	360141	Nut	1
11	GM46659	Elbow fitting	1
12	GM32920	Fitting	1

Item	Part Number	Description	Quantity Variation 6360
13	223835	Packing	2
14	GM46661	Fuel line	1
15	GM49991	Fuel line	1
16	GM46662	Fitting	3
17	360178	O-ring	1
18	GM34530	Adapter	1
19	GM46664	Adapter	2
20	GM17471	O-ring	2
21	GM50005	Fuel line	1
22	GM32961	Support	1
23	360015	Plug	1
24	223912	Tee fitting	1

Group 16: Fuel Separator



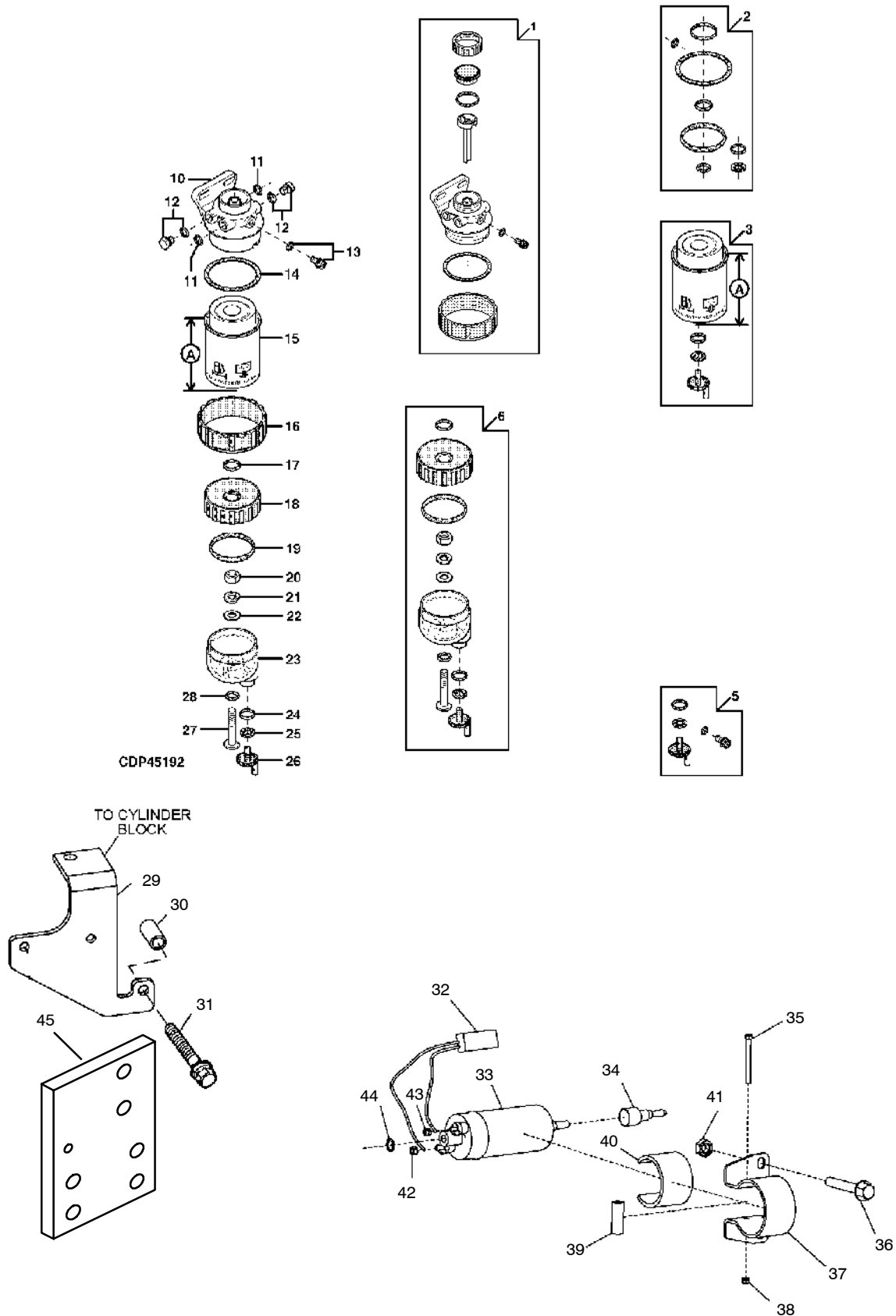
Group 16: Fuel Separator

Item	Part Number	Description	Quantity
			Variation 8114
1	GM34533	Filter head	1
2	222772	Seal Kit	1
3	GM34534	Element, filter (also order item 14)	1
4	GM34535	Kit, lift pump	1
5	360048	Kit, bleed plug and drain valve	1
6	GM32731	Bowl, sediment	1
7	—	Pump (order item 4)	1
8	—	O-ring	1
9	GM32836	Ring kit (pkg. 10)	1
10	—	Filter head (order item 1)	1
11	360178	O-ring	AR
12	360015	Plug	AR
13	—	Drain plug (order item 1 or item 5)	1
14	GM17445	Seal	1
15	—	Element, filter (order item 3 and item 14)	1
16	—	Retainer (order item 1)	1
17	—	O-ring (order item 2 or item 6)	1
18	—	Retainer (order item 6)	1
19	—	O-ring (order item 6 or item 2)	1
20	—	Nut (order item 6)	1
21	—	Lock washer (order item 6)	1
22	—	Washer (order item 6)	1
23	—	Sediment bowl (order item 6)	1
24	—	O-ring (order item 6, item 2, or item 5)	1
25	—	Gasket (order item 6, item 2, or item 5)	1
26	—	Drain plug (order item 6 or item 5)	1
27	—	Screw (order item 6)	1
28	—	O-ring (order item 2 or item 6)	1
29	GM34531	Bracket	1
30	GM47105	Bushing	1
31	#	Screw, M10 x 35	1

Common hardware; procure locally

AR As Required

Group 16: Fuel Separator, continued



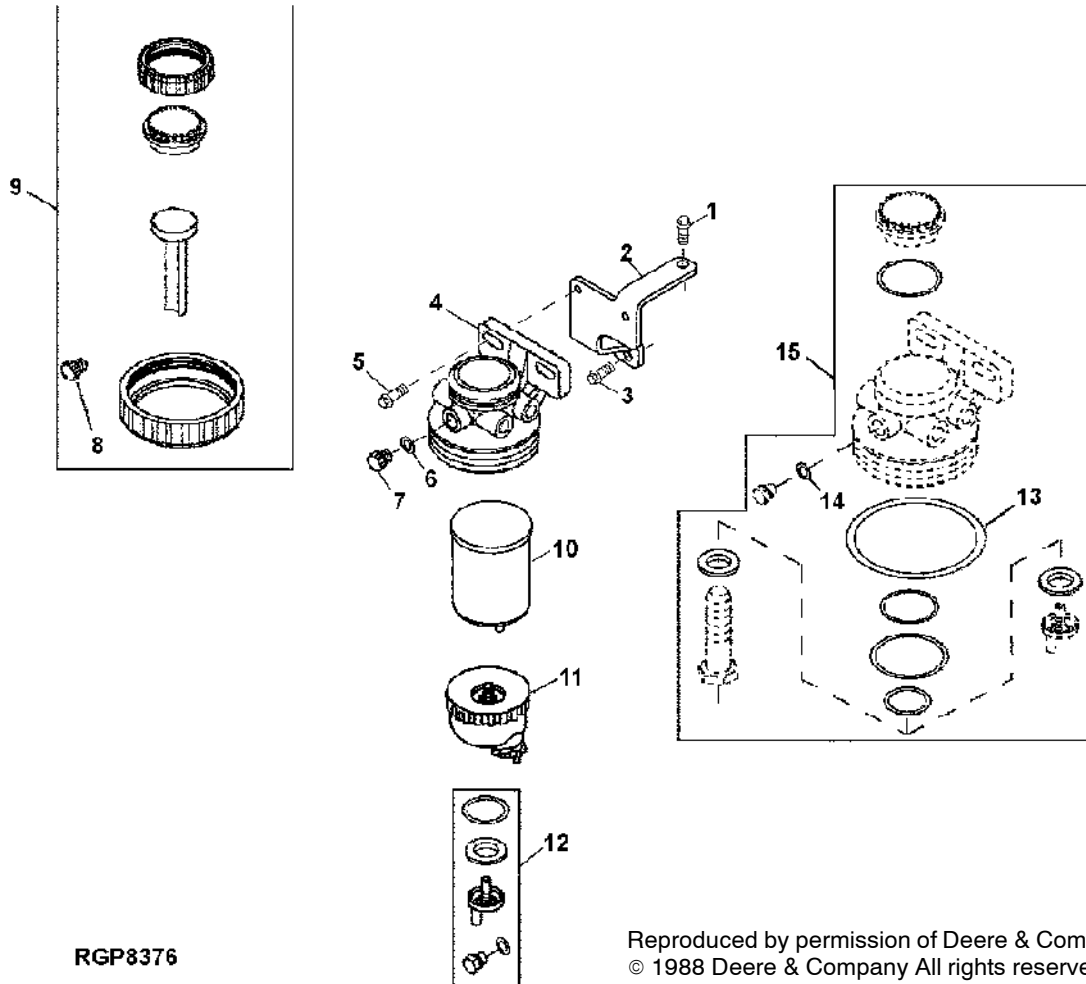
Group 16: Fuel Separator, continued

Item	Part Number	Description	Quantity
			Variation 8117
1	GM34533	Filter head	1
2	222772	Seal Kit	1
3	GM34534	Element, filter (also order item 14)	1
5	360048	Kit, bleed plug and drain valve	1
6	GM32731	Bowl, sediment	1
10	—	Filter head (order item 1)	1
11	360178	O-ring	AR
12	360015	Plug	AR
13	—	Drain plug (order item 1 or item 5)	1
14	GM17445	Seal	1
15	—	Element, filter (order item 3 and item 14)	1
16	—	Retainer (order item 1)	1
17	—	O-ring (order item 2 or item 6)	1
18	—	Retainer (order item 6)	1
19	—	O-ring (order item 6 or item 2)	1
20	—	Nut (order item 6)	1
21	—	Lock washer (order item 6)	1
22	—	Washer (order item 6)	1
23	—	Sediment bowl (order item 6)	1
24	—	O-ring (order item 6, item 2, or item 5)	1
25	—	Gasket (order item 6, item 2, or item 5)	1
26	—	Drain plug (order item 6 or item 5)	1
27	—	Screw (order item 6)	1
28	—	O-ring (order item 2 or item 6)	1
29	GM34531	Bracket	1
30	GM47104	Bushing	1
31	#	Screw, M10 x 35	1
32	GM47106	Harness, wiring (engine sensor)	1
33	GM34537	Pump	1
34	GM34527	Adapter	1
35	#	Screw, cap, M5 x 50	1
36	#	Screw, cap, M10 x 25	2
37	GM34538	Bracket	1
38	#	Nut, lock, M5	1
39	GM34539	Spacer	1
40	GM34540	Holder	1
41	#	Lock nut	2
42	#	Nut, lock, M5	1
43	#	Nut, lock, M4	1
44	GM32917	Washer	1
45	GM34532	Support	1

Common hardware; procure locally

AR As Required

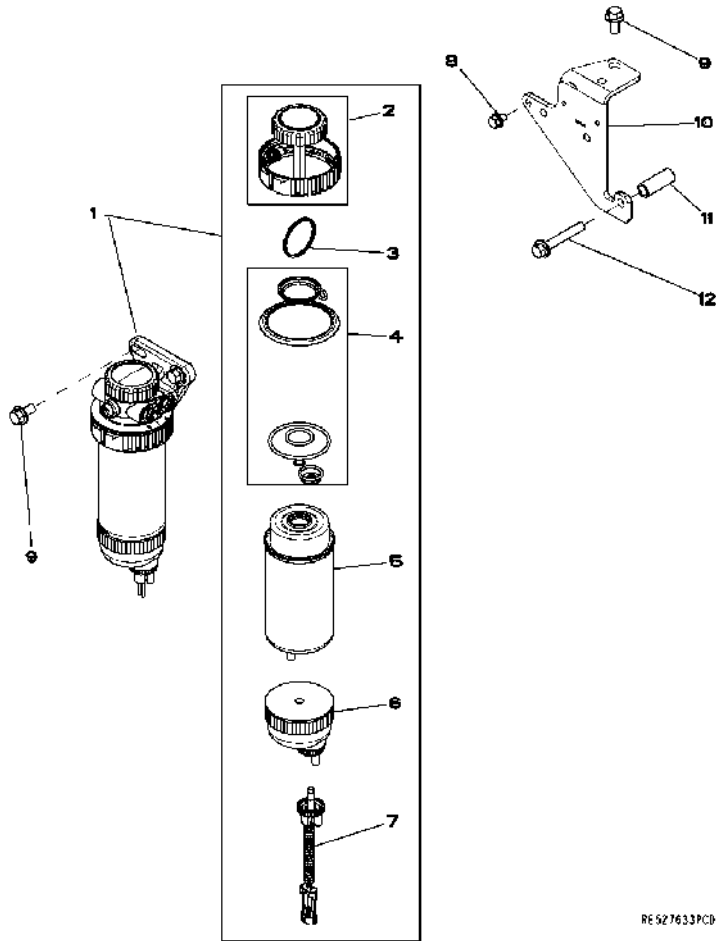
Group 16: Fuel Separator, continued



Item	Part Number	Description	Quantity Variation 8139
1	X	Screw	NA
2	X	Bracket	NA
3	X	Screw	NA
4	GM34533	Filter head	1
5	#	Screw	2
6	352053	Ring	1
7	GM17444	Plug, drain	1
8	GM17444	Plug, drain	1
9	222773	Kit, seal	1
10	GM46370	Fuel filter, primary	1
11	GM32731	Bowl, sediment	1
12	360048	Kit, bleed plug and drain valve	1
13	GM17445	O-ring	1
14	352053	Ring	1
15	222772	Kit, seal	1
	GM32836	Kit, ring	1

Common hardware; procure locally
X Not sold separately

Group 16: Fuel Separator, continued



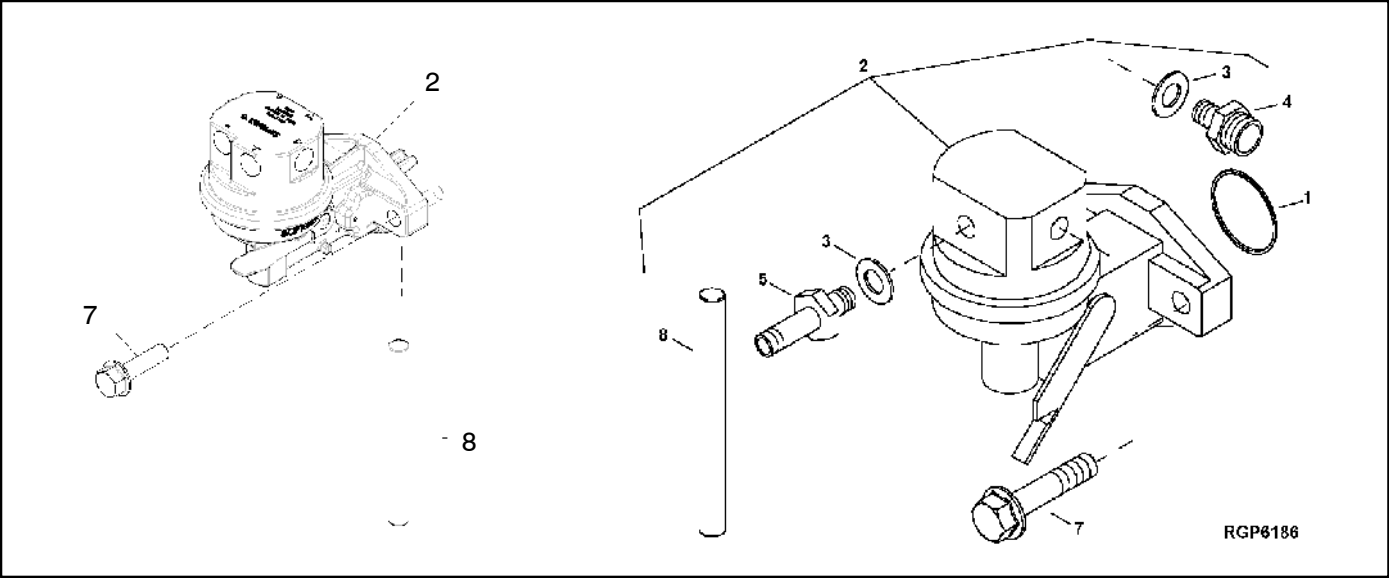
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Item	Part Number	Description	Quantity		
			8171	Variation 8169	8177
1	GM50073	Filter	1	1	1
2	222773	Seal kit	1	1	1
3	GM32836	Ring kit	1	1	1
4	222772	Seal Kit	1	1	1
5	GM50074	Filter element	1	1	1
6	GM32731	Bowl, sediment	1	1	1
7	GM49940	Moisture sensor	1	1	1
8	GM50033	Cap screw	1		
9	GM32765	Screw, M10 x 20	3		
9	#	Screw, M10 x 30		2	2
10	GM49919	Bracket	1		
11	GM47105	Bushing	1		
12	#	Screw, M10 x 65	1		

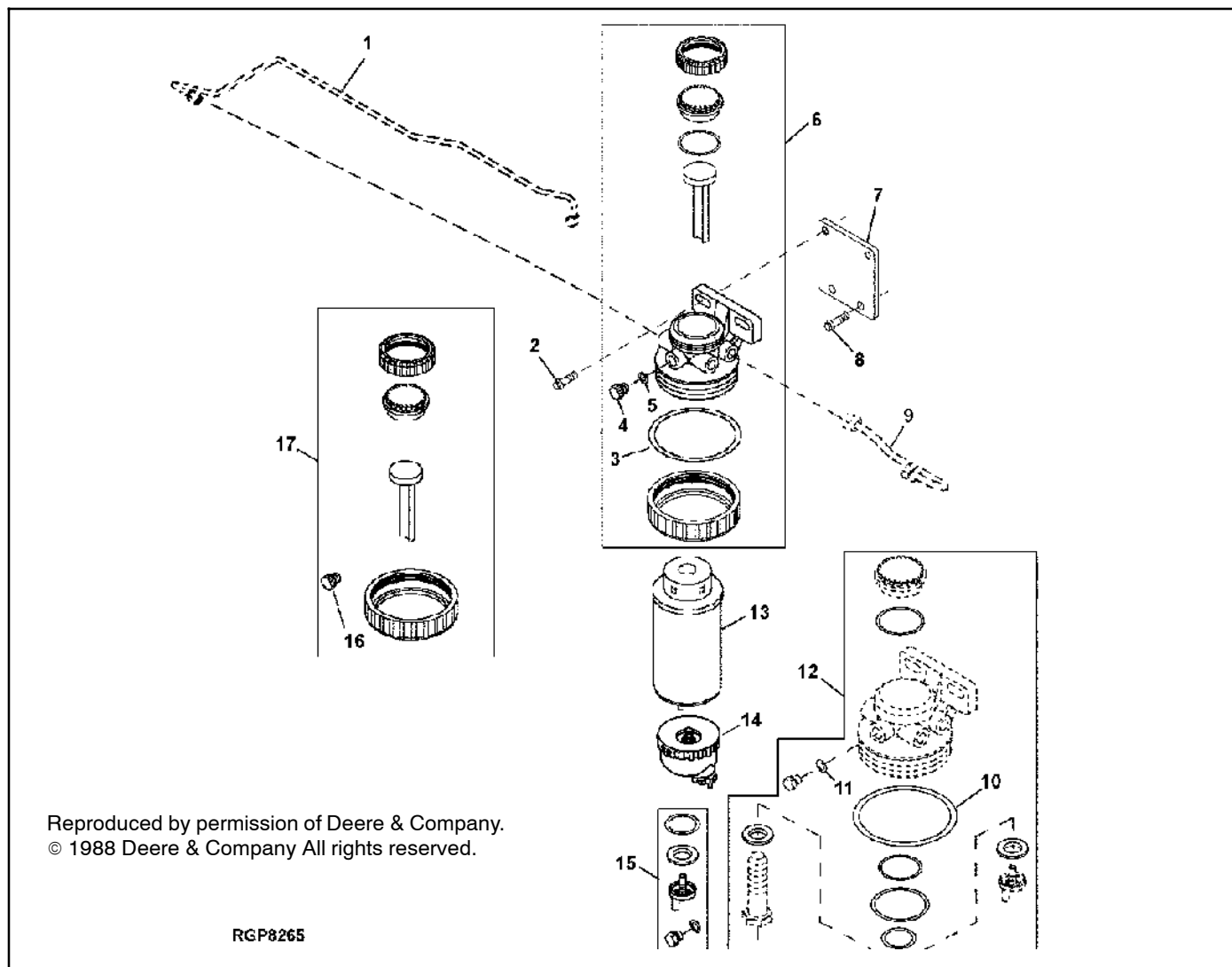
Common hardware; procure locally

Group 17: Fuel Pump



Item	Part Number	Description	Quantity		
			Variation		
			3702	3713	3713 (6068HFG)
1	360119	O-ring	1	1	1
2	360071	Pump, fuel transfer	1	1	1
2	GM52528	Pump, fuel transfer			
3	GM17471	O-ring	2	2	
4	GM17470	Fitting	1	1	
5	GM18722	Fitting	1	1	
7	GM17525	Screw, cap	2	2	2
8	360159	Rod, push	1	1	1

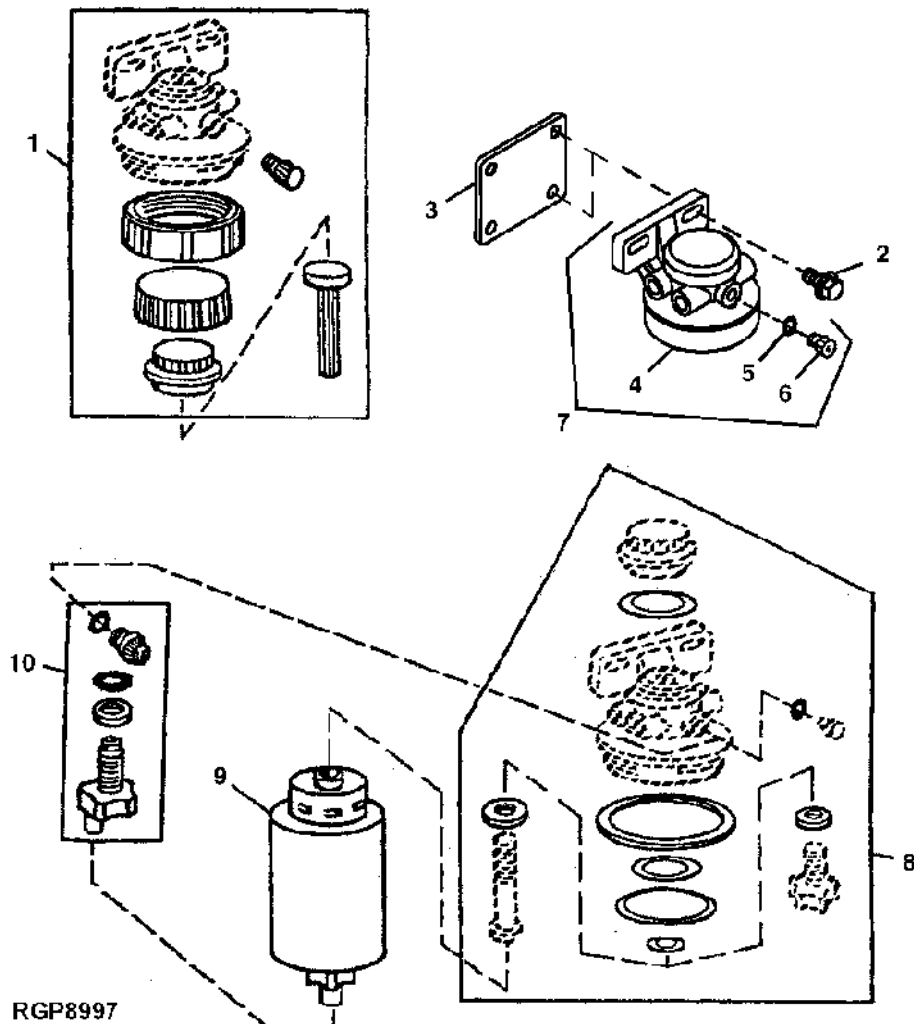
Group 18: Fuel Filter



Item	Part Number	Description	Quantity	
			Variation	
			35BV	35BR
1	—	Fuel line (see Group 15)	1	1
2	#	Screw, M10 x 20	2	2
3	GM17445	O-ring	1	1
4	GM17444	Plug, drain	1	
5	352053	O-ring	1	
6	GM32828	Kit, header, final fuel	1	
6	GM34542	Kit, header, final fuel		1
7	GM32800	Bracket	1	1
8	#	Screw, M10 x 85	2	2
9	—	Fuel line (see Group 15)	1	1
10	GM17445	O-ring	1	1
11	352053	O-ring	1	1
12	GM32836	Kit, seal	1	1
13	GM32827	Filter, fuel	1	
13	222753	Filter, fuel		1
14	GM32731	Bowl, sediment	1	1
15	360048	Kit, bleed plug and drain valve	1	1
16	GM17444	Plug, drain	1	1
17	222773	Kit, seal	1	1

Common hardware; procure locally

Group 18: Fuel Filter, continued

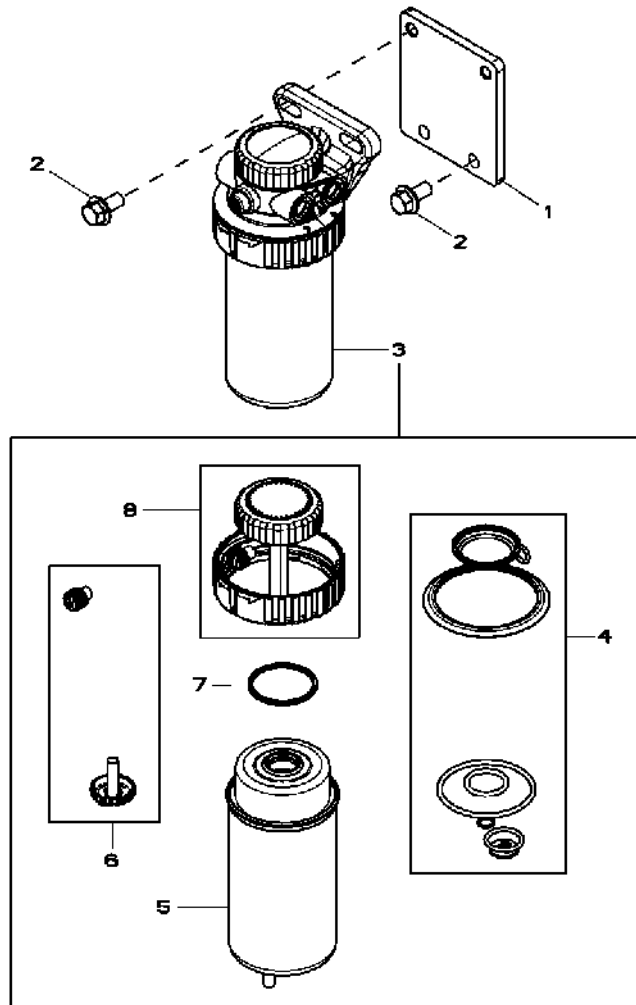


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Item	Part Number	Description	Quantity Variation 35CR
1	222773	Kit, seal	1
2	GM32765	Screw, M10 x 20	4
3	GM46665	Bracket	1
4	X	Fuel filter	NA
5	352053	Ring	1
6	GM17444	Plug, drain	1
7	GM32828	Kit, seal	1
8	222772	Kit, seal	1
9	GM46666	Filter element	1
10	360048	Kit, bleed plug and drain valve	1

X Not sold separately

Group 18: Fuel Filter, continued

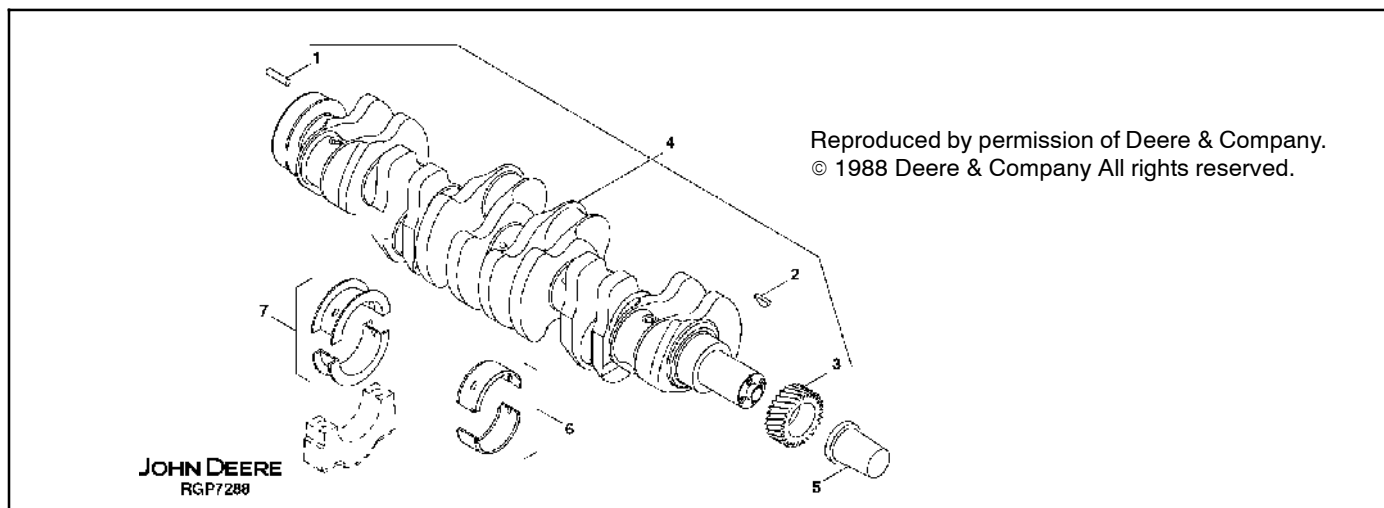


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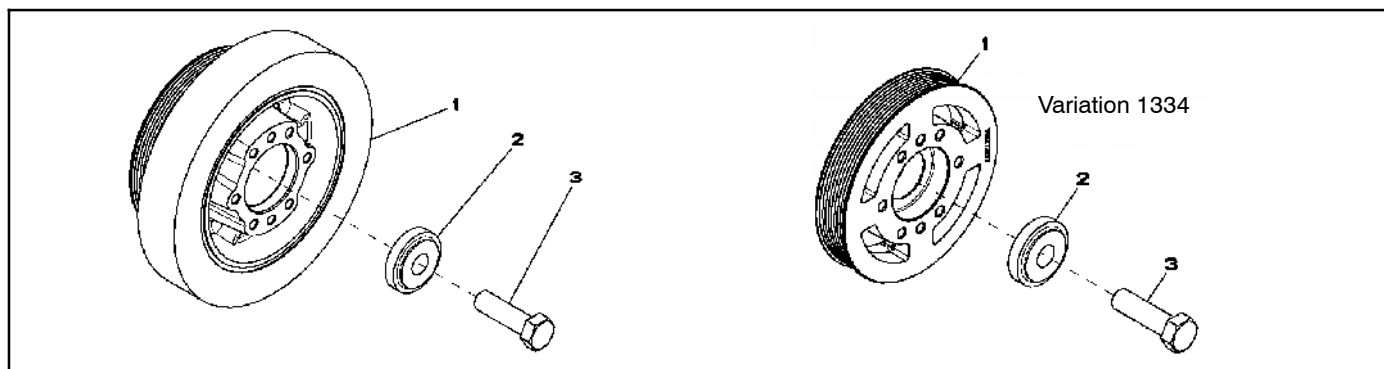
Item	Part Number	Description	Quantity	
			Variation	
			35ED	35DZ
1	GM32800	Bracket	1	
1	GM46665	Bracket		1
2	GM32765	Screw, M10 x 20	4	4
3	GM50032	Filter	1	1
4	222772	Seal Kit	1	1
5	GM50006	Filter element	1	1
6	360048	Kit, bleed plug and drain valve	1	1
7	GM32836	Ring kit	1	1
8	222773	Seal kit	1	1

Group 19: Crankshaft



Item	Part Number	Description	Quantity Variation 4712
1	223472	Dowel pin	1
2	360158	Key, shaft	1
3	360099	Gear, 30 teeth	1
4	GM34543	Crankshaft	1
4	GM32909	Wheel, timing	1
5	360032	Sleeve	1
6	360049	Bearing, standard	6
6	360055	Bearing, undersize, .254 mm	6
7	360050	Bearing, standard	1
7	360056	Bearing, undersize, .254 mm	1
—	360581	Bolt, flywheel to crankshaft	6

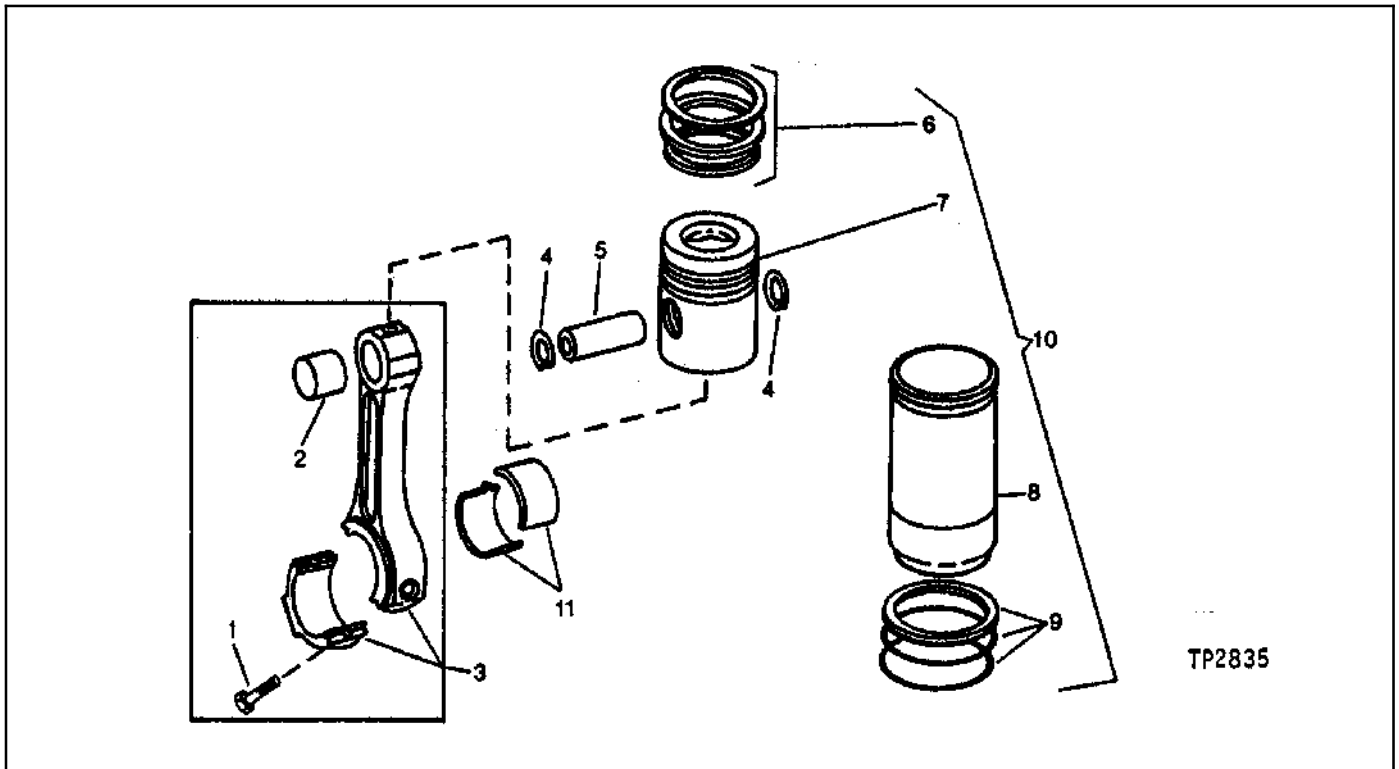
Group 20: Crankshaft Pulley



Item	Part Number	Description	Quantity Variation					
			1320	1321	1322	1324	1334	1340
1	GM32939	Pulley with dampener	1					
1	GM32924	Pulley/Damper			1			
1	GM47470	Pulley with dampener						1
1	GM49932	Pulley/Damper		1				
1	GM86404	Pulley				1		
1	GM77159	Pulley					1	
2	GM32911	Bushing	1					
2	GM47474	Bushing		1	1	1	1	1
3	#	Screw	1					
3	GM47472	Screw		1	1	1	1	1

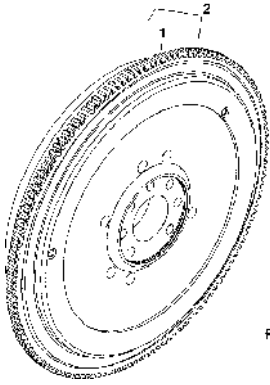
Common hardware; procure locally

Group 21: Piston and Connecting Rod



Item	Part Number	Description	Quantity				
			4820	4817	Variation 4834	4839	4855
1	GM17477	Screw	12	12	12	12	12
2	GM17446	Bushing	6	6	6	6	6
3	GM17610	Rod, connecting	6	6	6	6	6
4	223479	Ring, snap	12	12	12	12	12
5	GM17450	Pin, piston	6				
5	GM46667	Pin, piston		6	6	6	6
6	GM32821	Kit, piston ring	6		6		
6	GM46678	Kit, piston ring		6			
6	GM50056	Kit, piston ring				6	6
7	—	Not sold separately	6	6	6	6	6
8	—	Not sold separately	6	6	6	6	6
9	223419	Kit, O-ring	6	6	6	6	6
10	GM32820	Kit, piston liner	6				
10	GM46669	Kit, piston liner		6			
10	GM50055	Kit, piston liner				6	
10	GM50030	Kit, piston liner			6		
10	GM86403	Kit, piston liner					6
11	360053	Bearing, standard	6	6	6		6
11	360054	Bearing, .25 mm undersize	6	6			6
11	GM49826	Bearing				6	

Group 22: Flywheel

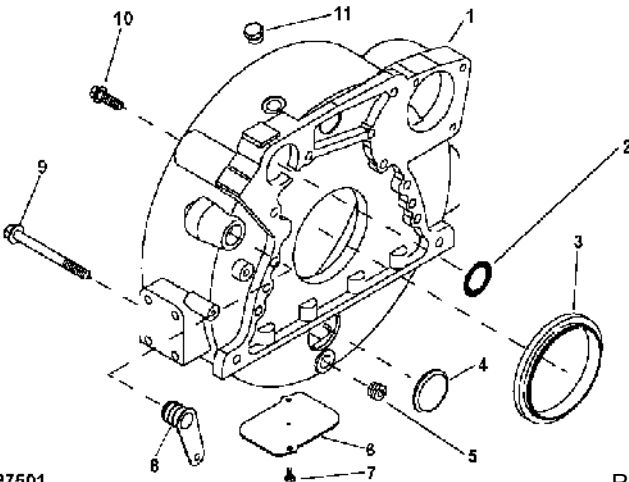


RGP6022

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Item	Part Number	Description	Quantity
			Variation 1503
—	360581	Bolt	6
1	223750	Gear, 129 teeth	1
2	GM17501	Flywheel	1

Group 23: Flywheel Housing



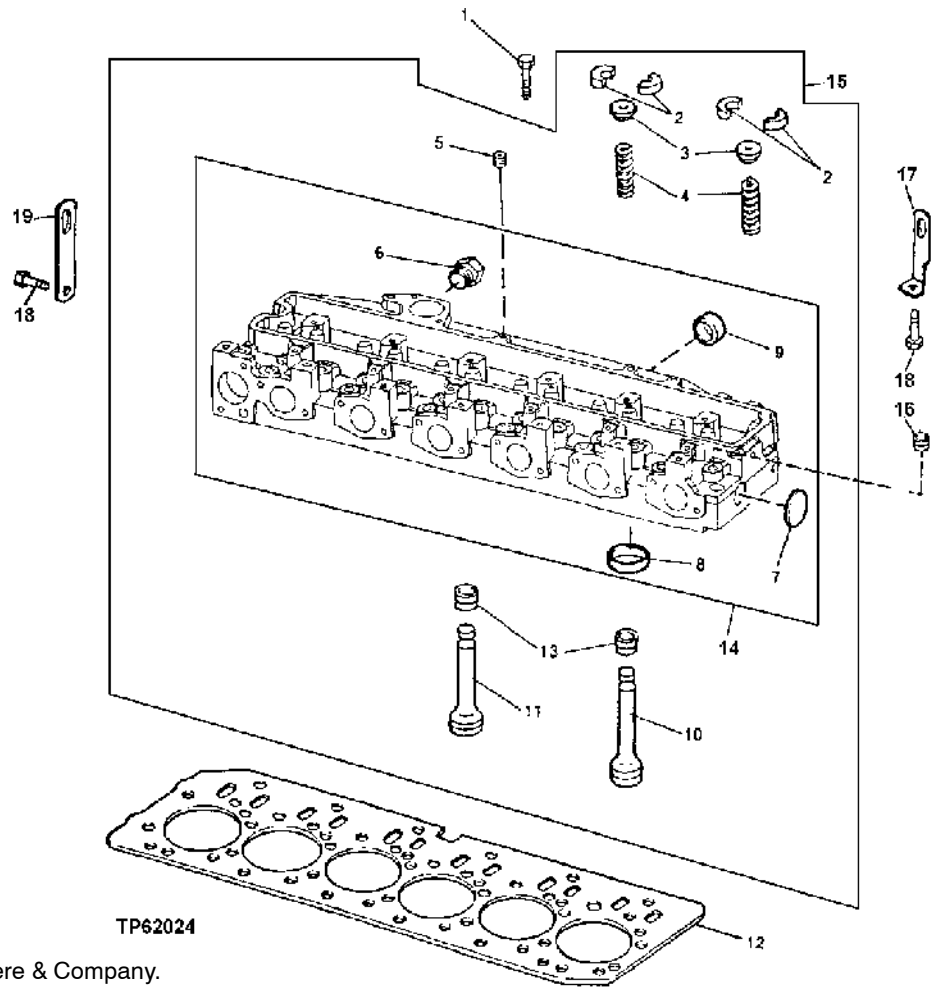
RGP7501

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Item	Part Number	Description	Quantity		
			1406	Variation 1407	1420
1	GM24539	Housing, flywheel (order item 2 also)	1		
1	GM46670	Housing, flywheel (order item 2 also)		1	
1	GM49833	Housing			1
2	GM24540	O-ring	1	1	1
3	223583	Seal	1	1	1
4	GM17553	Cap	1		
5	#	Plug, pipe, 1/2 in.	1		
5	GM50084	Plug, drain			1
6	GM17449	Plate	1		
7	#	Screw, cap	2		
8	360149	Plug	1		
8	GM17453	Plug		1	1
9	#	Screw, M12 x 50	4	4	4
10	360581	Bolt	8	8	8
11	GM17468	Fitting	1		1

Common hardware; procure locally

Group 24: Cylinder Head

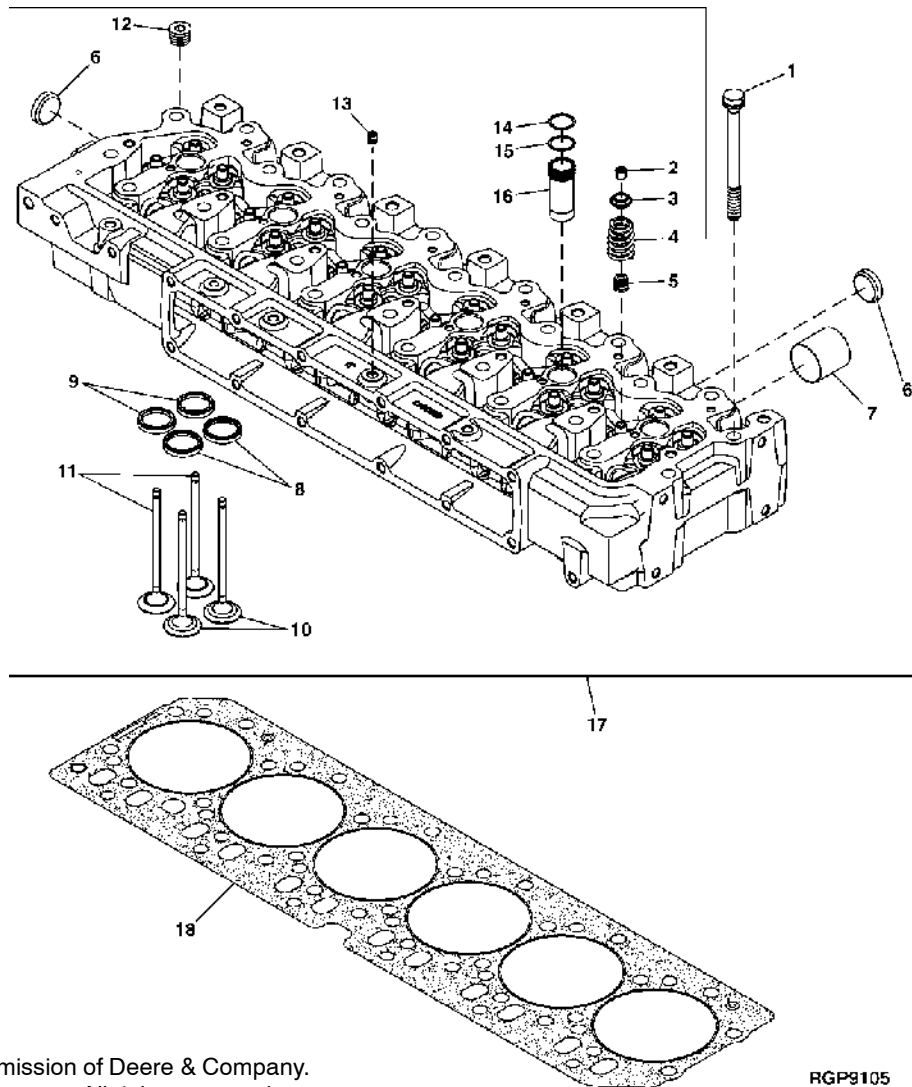


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Item	Part Number	Description	Quantity Variation 5107
1	224164	Screw, cap	26
2	224184	Lock	24
3	224176	Rotator	12
4	223455	Spring	12
5	224268	Plug, pipe	1
6	360174	Fitting	1
7	223448	Cap	1
8	224162	Insert, intake valve seat, standard	6
8	224289	Insert, intake valve seat, oversize	AR
8	224166	Insert, exhaust valve seat, standard	6
8	224288	Insert, exhaust valve seat, oversize	AR
9	224157	Cap	3
10	224156	Valve, exhaust, standard	6
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	6
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	360094	Gasket, cylinder head	1
13	224243	Seal	12
14	—	Order item 15	12
15	360022	Head, cylinder	1
16	GM15403	Plug, pipe	1

AR As Required

Group 24: Cylinder Head, continued

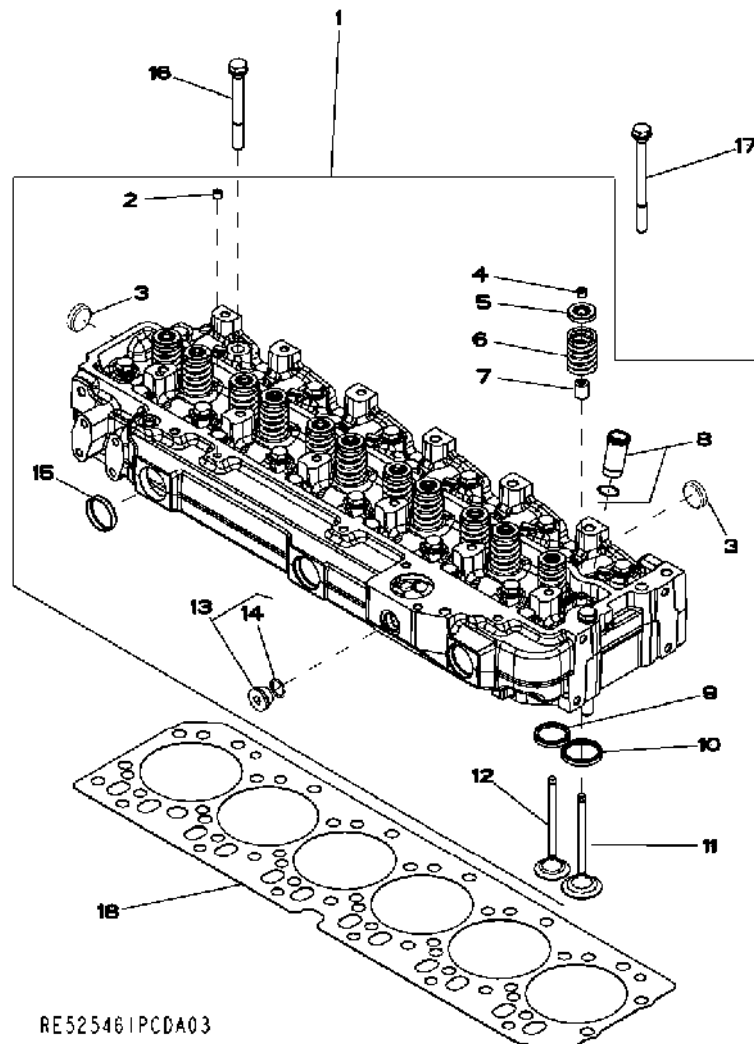


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RGP9105

Item	Part Number	Description	Quantity Variation 5116
1	GM46671	Screw, cylinder head	26
2	GM46672	Retainer	48
3	GM46673	Cap	24
4	GM46674	Compression spring	24
5	GM46675	Seal	24
6	223448	Cap	5
7	GM46676	Sleeve	6
8	GM46677	Valve seat insert	12
9	GM46678	Valve seat insert	12
10	GM46679	Intake valve	12
11	GM46680	Exhaust valve	12
12	GM15403	Plug, pipe	1
13	224268	Pipe plug	1
14	GM46681	O-ring	6
15	GM46682	O-ring	6
16	GM46683	Sleeve	6
17	GM46684	Cylinder head	1
18	360094	Gasket, cylinder head	1

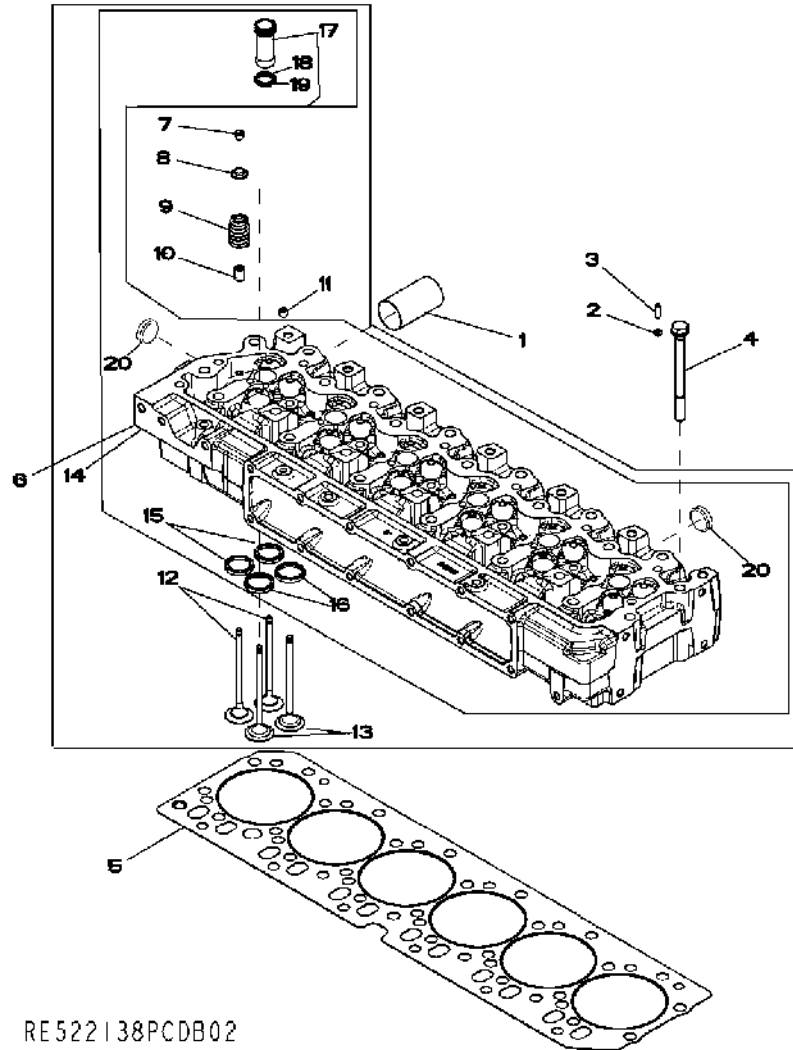
Group 24: Cylinder Head, continued



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Item	Part Number	Description	Quantity
			Variation 5123
1	GM50035	Cylinder head	1
2	224268	Pipe plug	1
3	223448	Cap	6
4	224184	Lock	24
5	224176	Rotator	12
6	223455	Spring	12
7	GM50076	Seal	12
8	GM50051	Sleeve	6
9	224166	Valve seat insert	6
10	224162	Valve seat insert	6
11	224168	Intake valve	6
12	224156	Exhaust valve	6
13	360174	Fitting	1
14	223746	O-ring	1
15	224157	Cap	3
15	224157	Cap	3
16	224164	Cap screw	24
17	GM46671	Screw, cylinder head	2
18	360094	Gasket, cylinder head	1

Group 24: Cylinder Head, continued

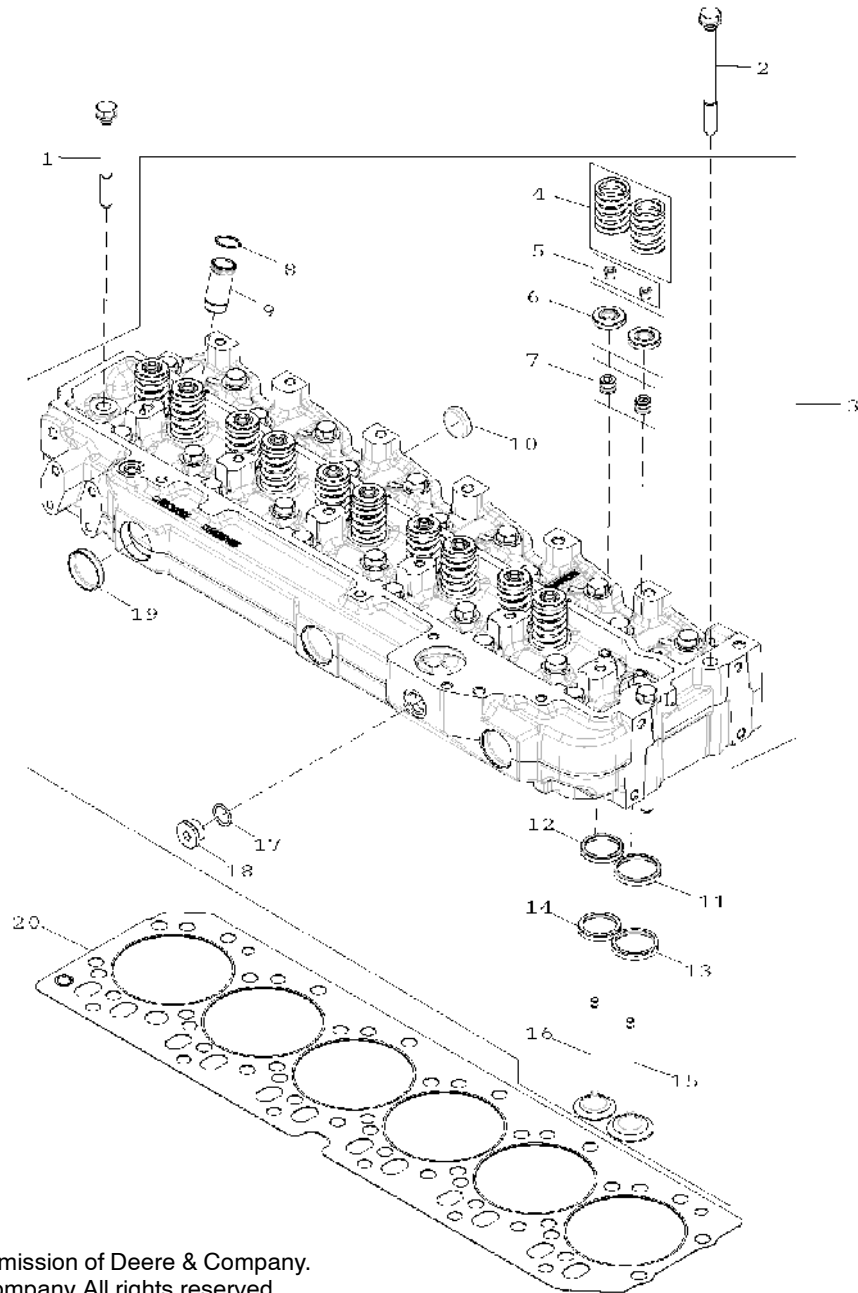


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Item	Part Number	Description	Quantity Variation 5120
1	GM49860	Sleeve	6
2	GM49886	O-ring	7
3	GM49906	Bushing	2
4	GM46671	Screw, cylinder head	26
5	360094	Gasket, cylinder head	1
6	GM49993	Cylinder head	1
7	GM46672	Retainer	48
8	GM46673	Cap	24
9	GM49845	Spring	24
10	GM50041	Seal	24
11	224268	Pipe plug	1
12	GM49937	Exhaust valve	12
13	GM49841	Intake valve	12
14	GM49993	Cylinder head	1
15	GM46678	Valve seat insert	12
16	GM46677	Valve seat insert	12
17	GM46683	Sleeve	6
18	GM46681	O-ring	1
19	GM46682	O-ring	1
20	223448	Cap	4

Group 24: Cylinder Head, continued

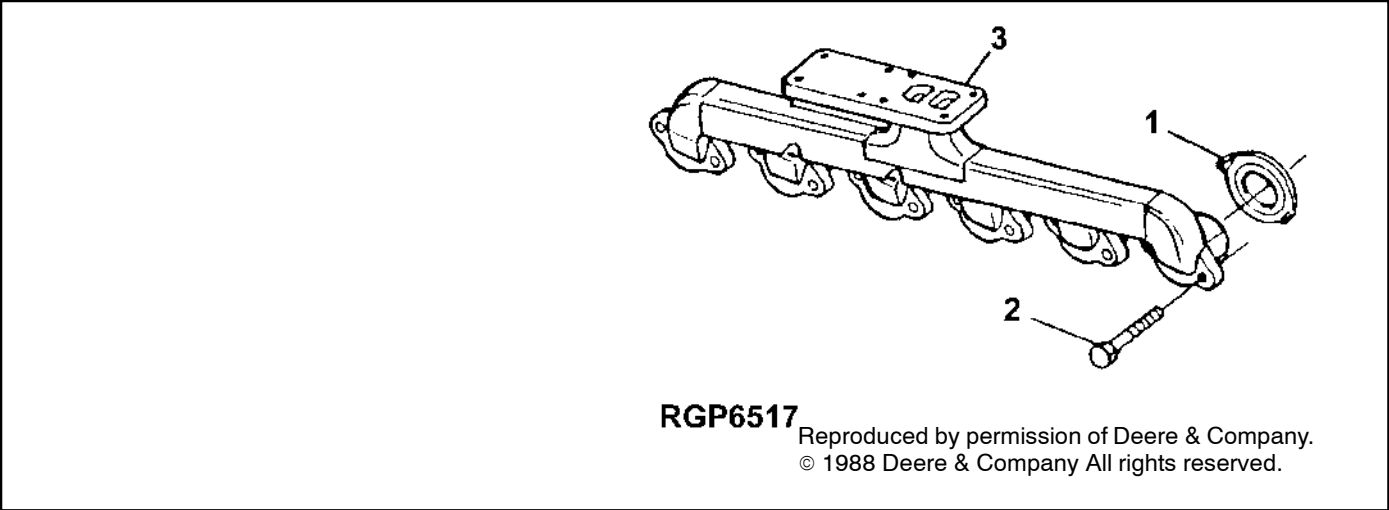


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Item	Part Number	Description	Quantity
			Variation 5132
1	224164	Cap Screw	24
2	GM46671	Screw, Cylinder Head	2
3	GM86405	Cylinder Head	1
4	223455	Spring	12
5	224184	Lock	24
6	224176	Rotator	12
7	224243	Seal	12
8	-	O-Ring (Order item 9)	1
9	GM50051	Sleeve	6
10	223448	Cap	6

Item	Part Number	Description	Quantity
			Variation 5132
11	224162	Valve Seat Insert	6
12	224166	Valve Seat Insert	6
13	GM21433	Insert, Valve	6
14	GM21434	Insert, Valve	6
15	224168	Intake Valve	6
16	224156	Exhaust Valve	6
17	223746	O-Ring	1
18	360174	Fitting	1
19	224157	Plug	3
20	360094	Engine Cylinder Head Gasket	1

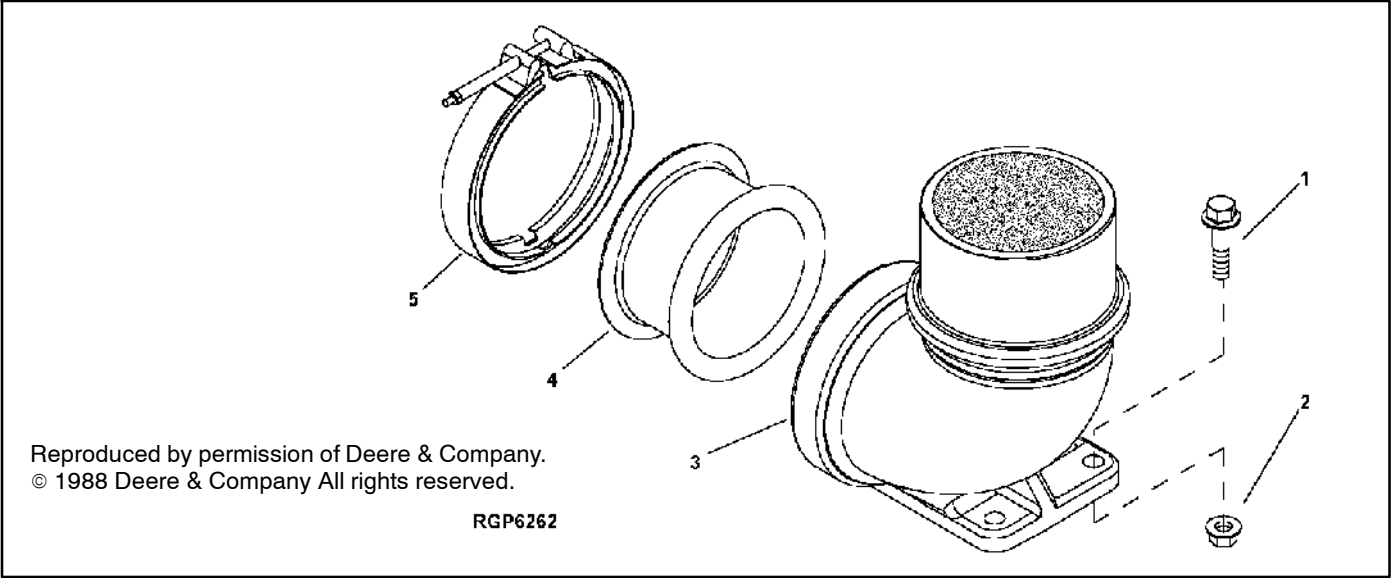
Group 25: Exhaust Manifold



Item	Part Number	Description	Quantity				
			2809	2868	Variation 2873	2892	28AV
1	223547	Gasket	6				
1	GM46685	Gasket		6			
1	GM49855	Gasket			6	6	6
2	#	Screw, M10 x 80	12	12			
2	GM49914	Screw				12	12
2	GM49853	Screw			12		
2	GM77154	Spacer (not shown)					12
3	360152	Manifold, exhaust	1	1		1	
3	GM49880	Manifold, exhaust			1		
3	GM77153	Manifold, exhaust					1
4	224268	Pipe plug (not shown)			1		

Common hardware; procure locally

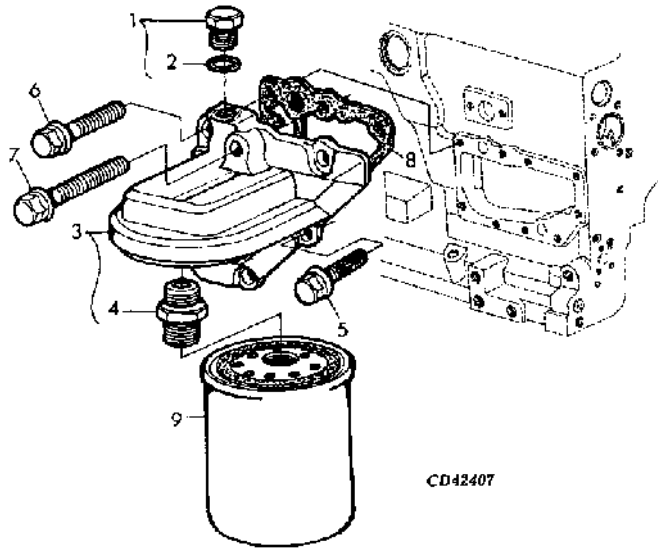
Group 26: Exhaust Elbow



Item	Part Number	Description	Quantity		
			6401	Variation 6435	6438
1	#	Screw, cap, M10 x 40	4		1
1	GM49897	Stud			4
1	#	Screw, cap, M10 x 30		4	
2	#	Nut, flange, M10	4		4
3	360117	Elbow, pipe	1		
3	GM49877	Elbow, pipe		1	
3	GM49928	Elbow, pipe			1
4	223891	Adapter	1		1
4	GM49837	Adapter		1	
5	GM32960	Clamp	1		
5	224132	Clamp		1	1

Common hardware; procure locally

Group 27: Oil Filter



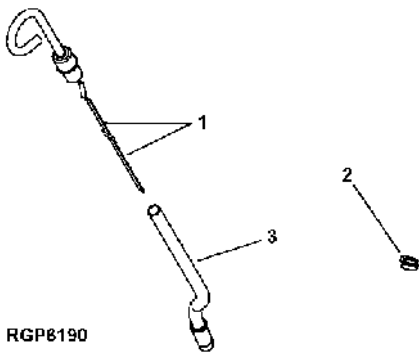
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Item	Part Number	Description	Quantity	
			Variation	
			8842	8843
1	GM24535	Plug	1	1
2	360557	O-ring	1	1
3	GM32808	Filter head	1	
3	GM46686	Filter head		1
3	GM32807	Valve	1	1
3	GM32787	Seal	1	1
4	—	Not sold separately	1	1
5	GM24536	Screw	1	1
6	#	Screw, M8 x 65	4	5
7	#	Screw, M8 x 65	1	
8	GM24537	Gasket	1	
8	GM17472	Gasket		1
9	GM32809	Filter, oil	1	1

Common hardware; procure locally

Group 28: Dipstick

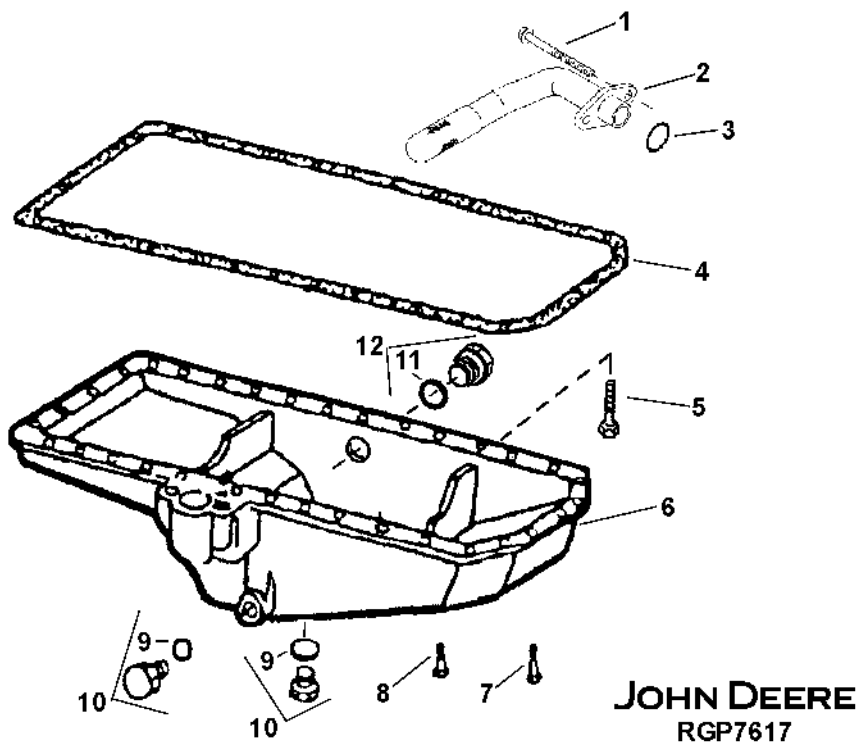


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Item	Part Number	Description	Quantity
			Variation
			4002
1	360073	Dipstick	1
2	360522	Plug	1
3	GM32788	Tube, dipstick	1

Group 29: Oil Pan

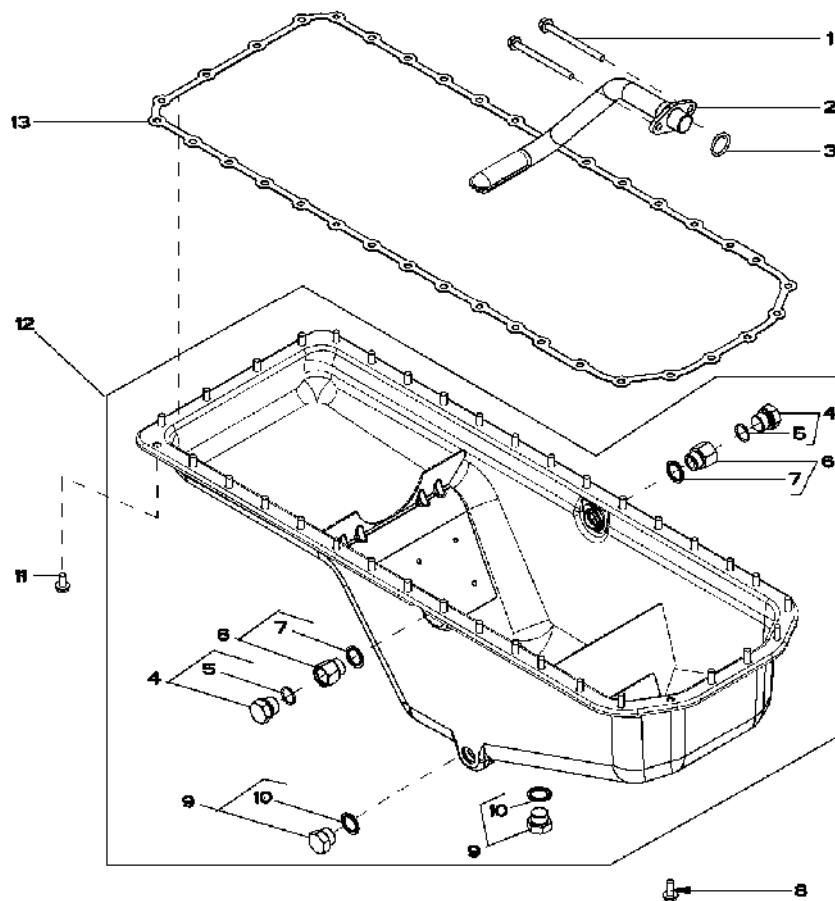


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Item	Part Number	Description	Quantity Variation	
			1924	1961
1	#	Screw, M8 x 100	2	2
2	GM24541	Intake, oil pump	1	
2	GM18872	Intake, oil pump		1
3	224035	O-ring	1	1
4	360123	Gasket	1	
4	GM18724	Gasket		1
5	#	Screw, M8 x 45	4	
6	GM24542	Pan, oil	1	
6	GM46687	Pan, oil		1
7	#	Screw, M8 x 30	6	
7	#	Screw, M8 x 20		6
8	#	Screw, M8 x 25	26	
8	#	Screw, M8 x 16		20
9	360176	O-ring	2	
9	GM17437	O-ring		2
10	360014	Plug	2	
10	GM17498	Fitting		2
11	GM17437	O-ring	2	2
12	GM17498	Fitting	2	2

Common hardware; procure locally

Group 29: Oil Pan, continued



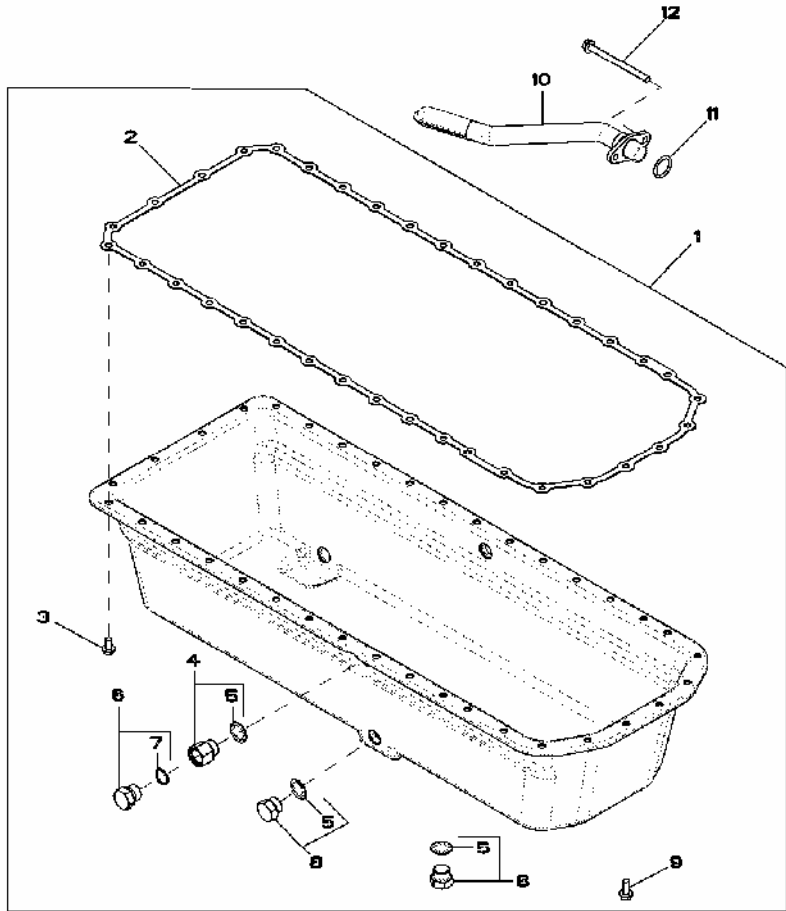
RE520689°CDB02

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Item	Part Number	Description	Quantity Variation 19AC
1	#	Screw, M8 x 100	2
2	GM24541	Intake, oil pump	1
3	224035	O-ring	1
4	GM17498	Fitting	2
5	GM17437	O-ring	1
6	GM50013	Seal	2
7	GM49876	Seal	1
8	#	Screw, M8 x 20	6
9	GM50012	Plug and seal kit	2
10	GM49876	Seal	1
11	#	Cap screw, M8 x 16	30
12	GM50020	Oil pan (includes two of item 4, two of item 6, and item 9)	1
13	GM49903	Gasket	1

Common hardware; procure locally

Group 29: Oil Pan, continued



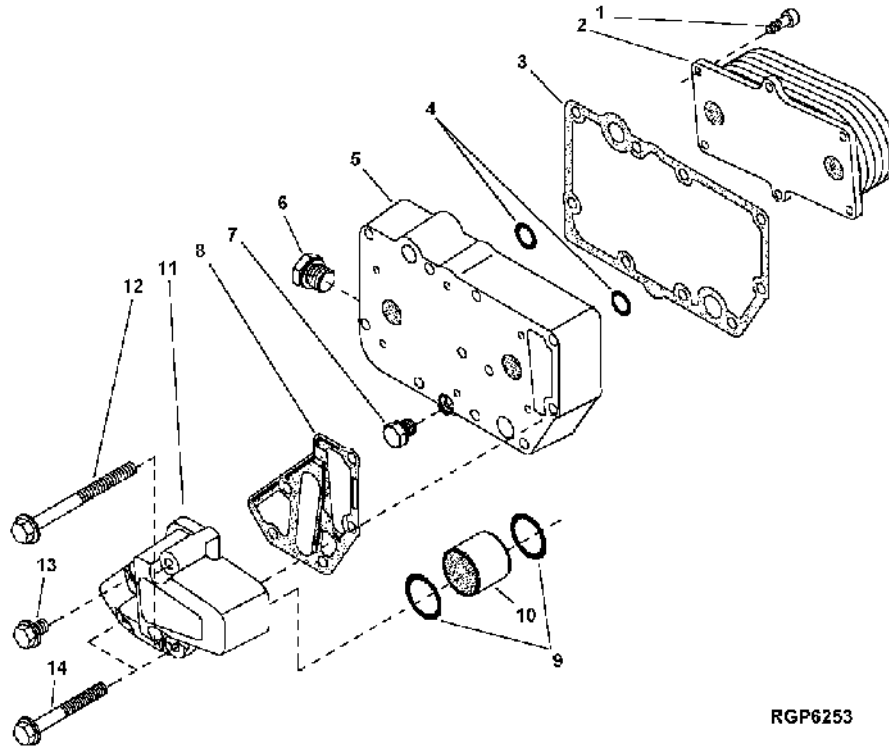
RE 541216PCBB02

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Item	Part Number	Description	Quantity
			Variation 19CM
1	GM86410	Oil Pan	1
2	GM49903	Gasket	1
3	#	Bolt, M8 X 16	30
4	GM50013	Seal	2
5	GM49876	Seal	1
6	GM17498	Fitting	2
7	GM17437	O-Ring 19.300 X 2.200 mm	1
8	GM50012	Plug And Seal Kit	3
9	#	Screw, M8 X 20	6
10	GM18872	Oil Pump Intake	1
11	224035	O-Ring	1
12	#	Screw, M8 X 110	2

Common hardware; procure locally

Group 30: Oil Cooler



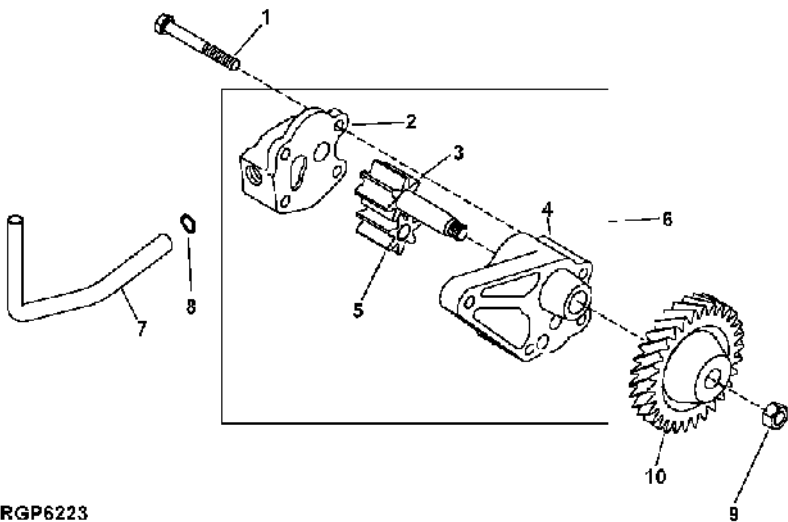
RGP6253

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Item	Part Number	Description	Quantity		
			5902	Variation 5903	5945
1	#	Screw	6	6	
1	GM50082	Screw, M6 x 16			6
2	275503	Cooler, oil	1		
2	GM32957	Cooler, oil		1	1
3	360130	Gasket	1	1	1
4	360170	O-ring	2	2	2
5	360127	Housing	1	1	
5	GM49890	Housing			1
6	360014	Plug (includes O-ring)	1	1	1
7	360015	Plug (includes O-ring)	1	1	1
8	GM17479	Gasket	1	1	1
9	GM24543	O-ring	1	1	
10	-	Tube (order item 11)	1	1	1
11	GM17462	Adapter (includes tube)	1	1	
11	GM49933	Adapter Kit (includes items 8-11)		1	1
12	#	Screw, M8 x 100	2	2	2
13	#	Screw, M8 x 20	1		
13	GM24536	Screw		1	1
14	#	Screw, M8 x 65	2	2	2

Common hardware; procure locally

Group 31: Oil Pump



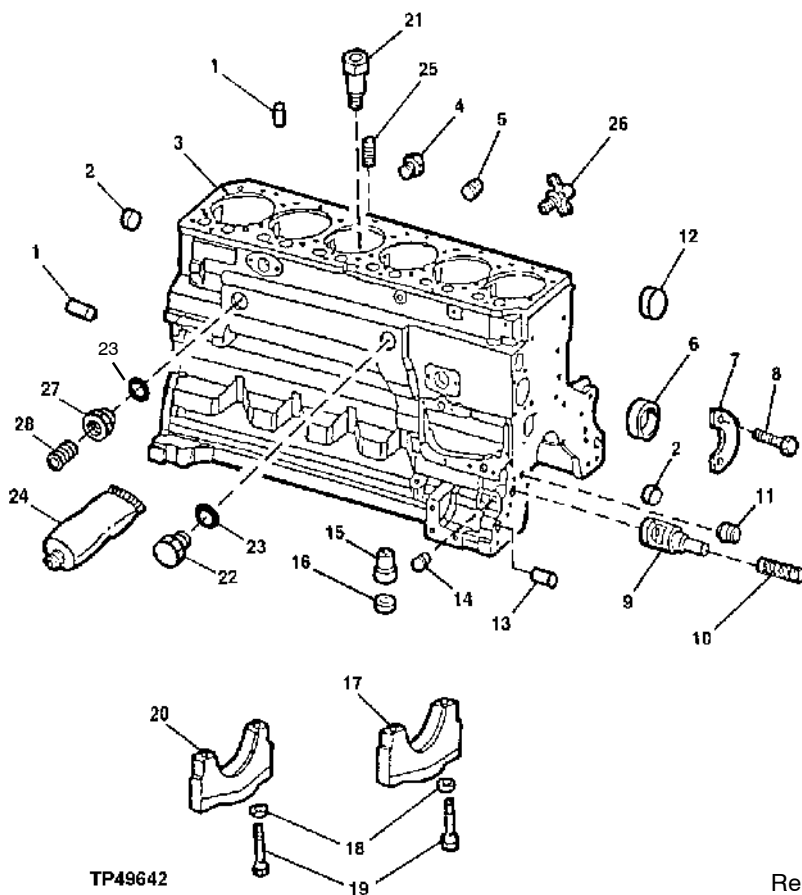
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RGP6223

Item	Part Number	Description	Quantity	
			Variation	
			5001	5024
1	#	Screw, M8 x 65	2	2
1	#	Screw, M8 x 105		2
2	X	Cover	1	1
3	X	Gear	1	1
4	X	Housing	1	1
5	X	Gear	1	1
6	GM17509	Pump, oil	1	
6	GM49994	Pump, oil		1
7	360104	Tube	1	
7	GM49846	Oil tube		1
8	336458	O-ring	1	1
9	#	Nut, M12	1	1
10	360524	Gear, 30 teeth	1	1

Common hardware; procure locally
X Not sold separately

Group 32: Cylinder Block



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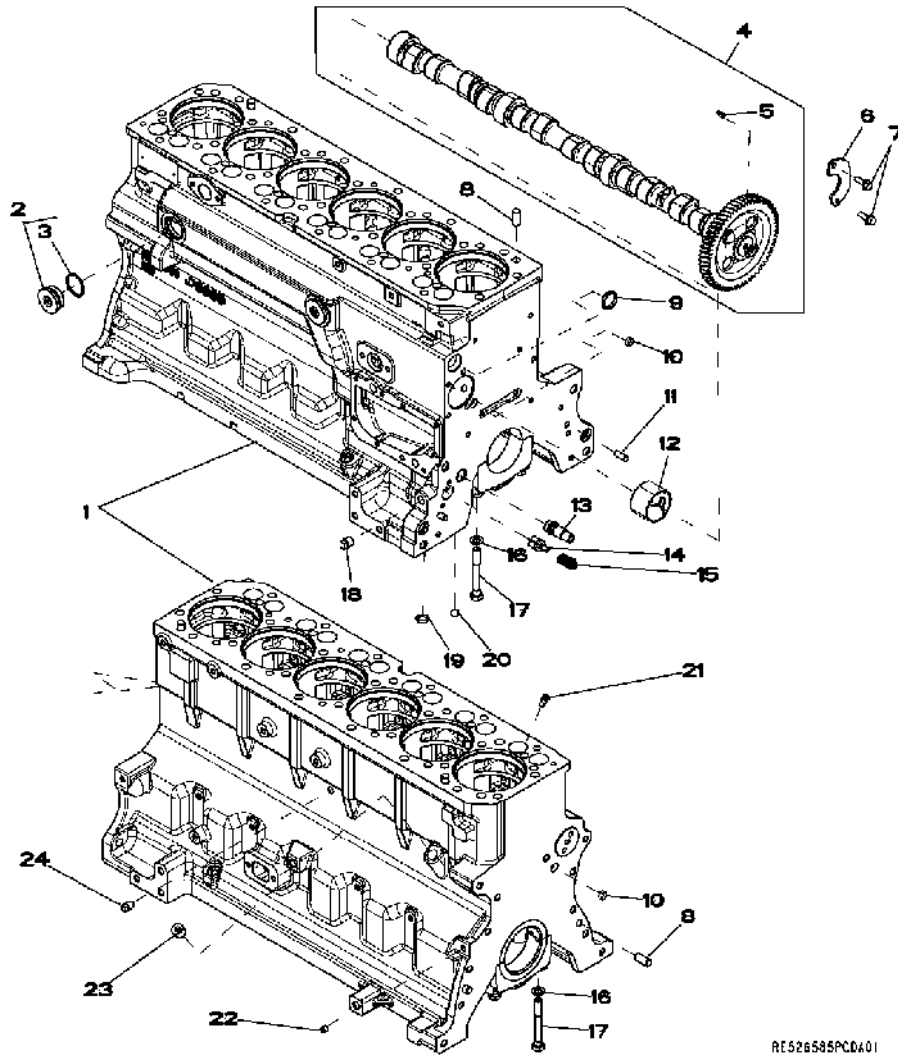
Item	Part Number	Description	Quantity	
			Variation	
			4613	4611
1	223472	Dowel pin	4	2
2	360517	Cap	2	2
3	—	Block, cylinder (see short block)	1	1
4	223802	Plug, pipe	1	1
5	224268	Plug, pipe	7	7
6	352246	Bushing	1	1
7	360154	Plate, thrust	1	1
8	#	Screw, M8 x 25	2	2
9	360103	Valve, engine oil bypass	1	1
10	360080	Spring	1	1
11	360518	Bushing	1	1
11	GM32810	Valve		1
12	360093	Plug	1	1
13	352064	Dowel pin	2	2
14	#	Plug, pipe, 3/8 in.	1	1
15	360087	Bushing	1	1

Common hardware; procure locally

X Not sold separately

Item	Part Number	Description	Quantity	
			Variation	
			4613	4611
16	223512	O-ring	1	1
17	360084	Cap, main bearing	6	
17	GM46688	Cap, main bearing		6
18	224089	Washer	14	14
19	223639	Screw, cap	14	14
20	360151	Cap, main thrust bearing	1	
20	GM46689	Cap, main thrust bearing		1
21	360146	Jet	6	6
22	223462	Plug, drain	2	
22	GM32824	Plug		1
23	223988	O-ring	2	2
24	360173	Gasket	1	1
25	GM15403	Plug, pipe	1	1
26	223435	Drain valve	1	1
27	GM32903	Adapter	1	1
28	X	Plug		1
	GM24534	Ball		1

Group 32: Cylinder Block



RE526585PCD401

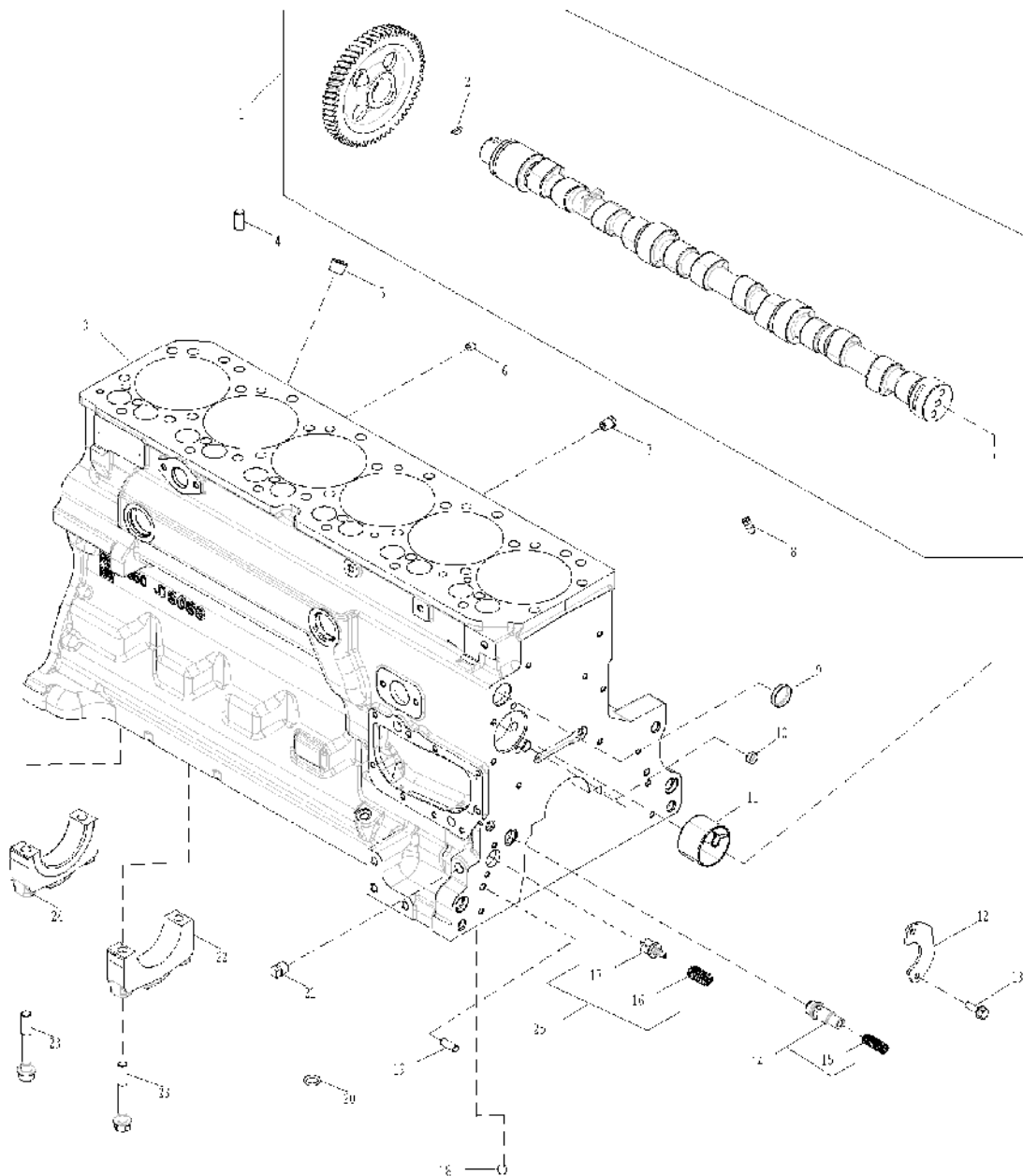
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Item	Part Number	Description	Quantity	
			Variation 4633	4644
1	—	Cylinder block (order short block assy.)	1	1
2	GM32824	Plug	2	2
3	223988	O-ring	1	1
4	GM50039	Camshaft		1
4	GM50071	Camshaft	1	
5	360158	Key, shaft		1
6	360154	Plate, thrust	1	1
7	#	Screw	2	2
8	GM49822	Dowel pin	4	4
9	360093	Plug	1	1
10	360517	Cap	2	2
11	GM49823	Dowel pin	2	2
12	352246	Bushing	1	1

Item	Part Number	Description	Quantity	
			Variation 4633	4644
13	GM32810	Valve	1	1
14	360103	Valve, engine oil bypass		1
15	360080	Spring		1
16	224089	Washer	14	14
17	223639	Cap screw	14	14
18	#	Pipe plug	1	1
19	336458	O-ring	1	1
20	GM24534	Ball	1	1
21	360146	Jet	6	6
22	224268	Pipe plug	1	1
23	#	Pipe plug	1	1
24	#	Pipe plug	1	1

Common hardware; procure locally

Group 32: Cylinder Block, continued



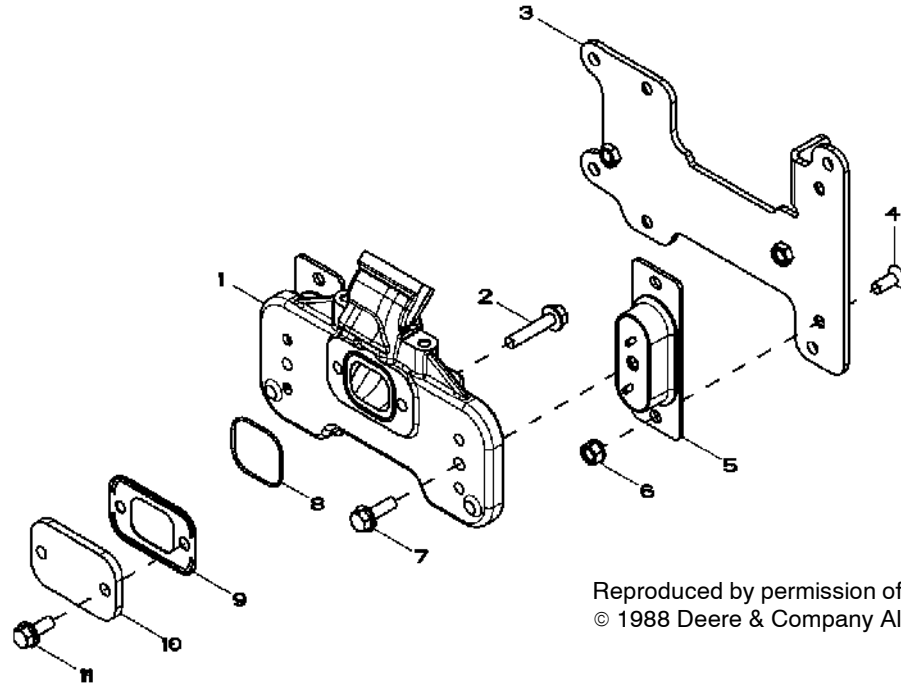
4653 RE393949 PCD

Item	Part Number	Description	Quantity Variation 4653
1	GM32931	Camshaft	1
2	360158	Key, Shaft	1
3	-	Cylinder Block (marked R504850)	1
4	223472	Dowel Pin	4
5	#	Pipe Plug, 1/2"	1
6	GM18873	Pipe Plug	1
7	GM86406	Pipe Plug	1
8	360146	Jet	6
9	360093	Plug	1
10	360517	Cap	2
11	352246	Bushing	1
12	360154	Plate, Thrust	1

Common hardware; procure locally

Item	Part Number	Description	Quantity Variation 4653
13	#	Screw, M8 X 25	2
14	GM32810	Valve	1
15	GM17452	Compression Spring	1
16	360080	Spring	1
17	360103	Valve, Engine Oil Bypass	1
18	GM24534	Ball	1
19	352064	Dowel Pin	2
20	336458	O-Ring	1
21	#	Pipe Plug, 3/8"	1
22	360084	Bearing Cap, Main Bearing	6
23	GM86407	Cap Screw	14
24	GM86408	Bearing Cap	1
25	GM21420	Valve Kit	1

Group 32: Cylinder Block, continued

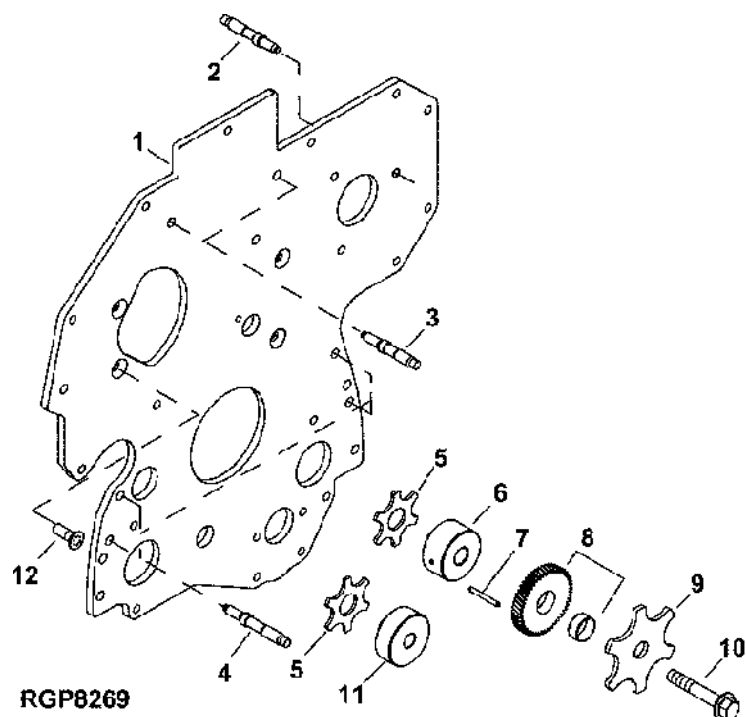


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Item	Part Number	Description	Quantity
			Variation 4644
1	GM50068	Filler neck	1
2	#	Screw, M8 x 40	2
3	GM50072	Bracket	1
4	#	Screw, M8 x 20	4
5	GM50053	Isolator	2
6	#	Flange nut, M8	4
7	#	Screw, M8 x 25	2
8	GM49829	O-ring, 47.346 x 1.778 mm	1
9	GM17466	Gasket	1
10	360089	Cover	1
11	GM24536	Screw, M8 x 20	2

Common hardware; procure locally

Group 33: Front Plate

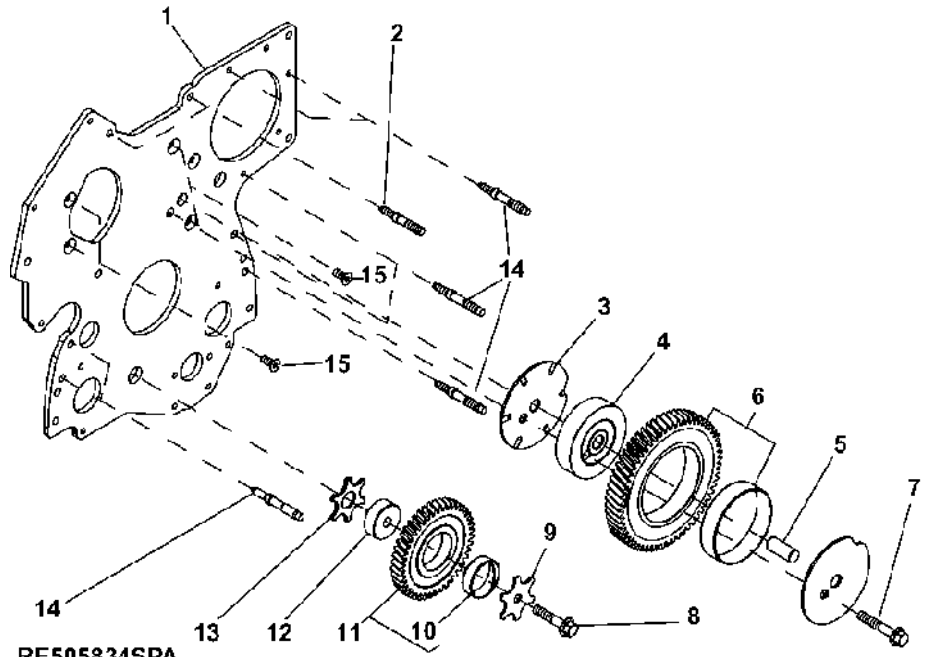


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Item	Part Number	Description	Quantity	
			Variation	
			3616	3618
1	GM32906	Plate, front	1	
1	GM23829	Plate, front		1
2	GM32904	Stud	4	
2	360092	Stud		3
3	360514	Stud	2	2
4	360140	Stud	4	4
5	336446	Washer, thrust	1	1
5	360113	Washer, lock	1	
6	360101	Shaft, upper	1	1
7	360179	Pin, spring	1	1
8	360020	Gear	1	1
9	360147	Washer, thrust	1	1
10	#	Screw	1	1
11	360083	Shaft, lower	1	1
12	360516	Screw	4	4

Common hardware; procure locally

Group 33: Front Plate, continued



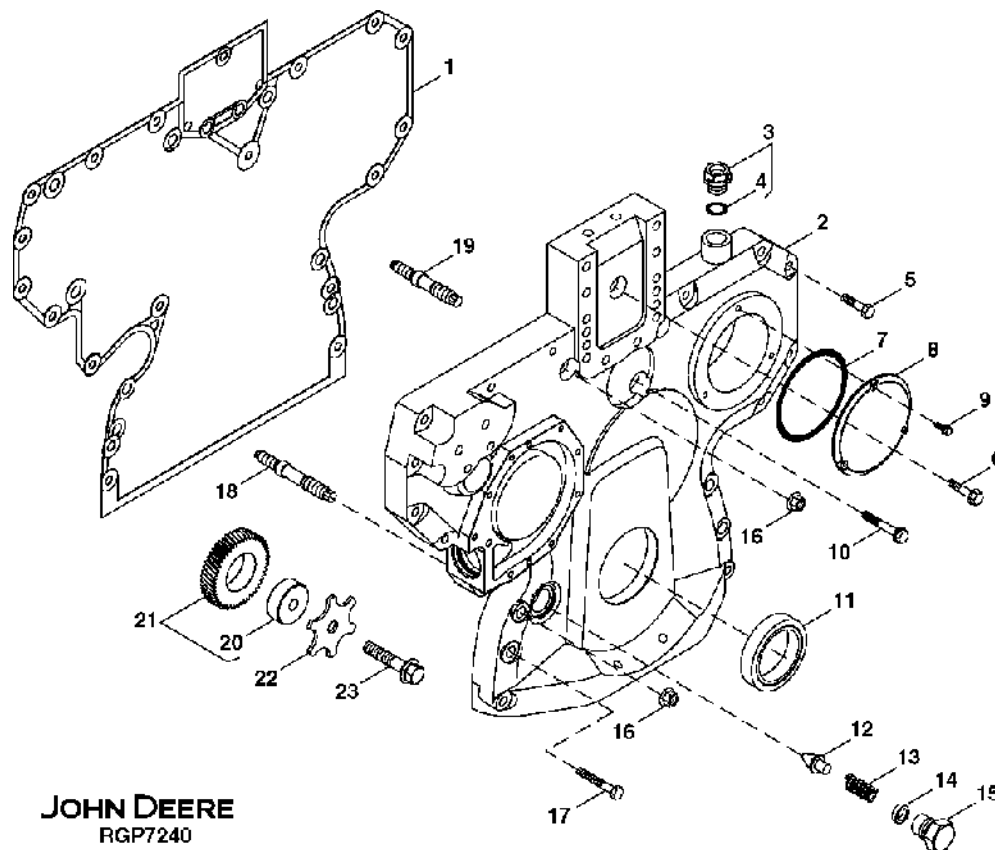
RE505834SPA

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Item	Part Number	Description	Quantity
			Variation 3612
1	GM46690	Plate	1
2	360514	Stud	2
3	GM46691	Lock washer	1
4	GM46692	Shaft, upper	1
5	GM46693	Dowel pin	1
6	GM46694	Gear	1
7	#	Screw, M10 x 60	1
8	#	Screw, M10 x 50	1
9	360148	Thrust washer	1
10	360082	Bushing	1
11	360021	Gear	1
12	360083	Shaft	1
13	336446	Thrust washer	1
14	360140	Stud	7
15	360516	Screw	5

Common hardware; procure locally

Group 34: Timing Gear Cover



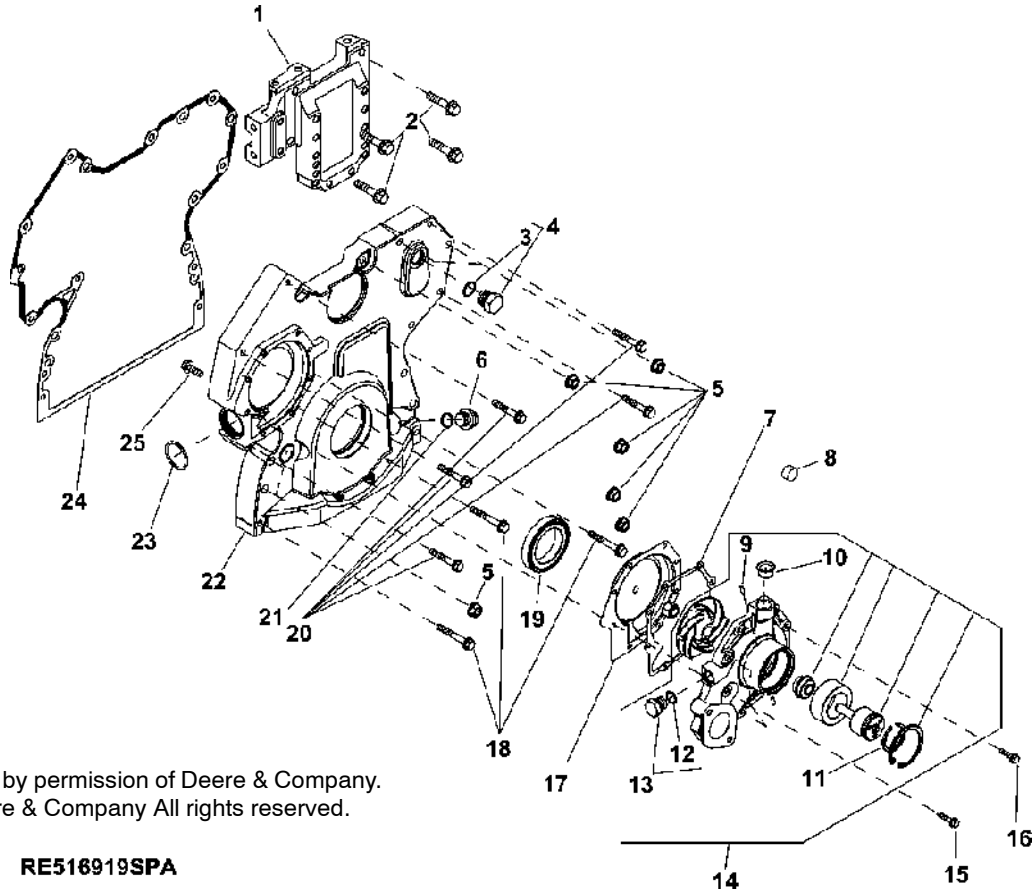
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Item	Part Number	Description	Quantity
			Variation 4426
1	GM17467	Gasket, gear cover	1
2	GM32796	Cover, gear	1
2	GM32910	Insert (not shown)	1
3	GM17508	Plug	1
4	360180	O-ring, 17.3 x 2.2 mm	1
5	360512	Screw	1
6	#	Screw, M8 x 35	1
6	#	Screw, M8 x 60	1
7	360107	O-ring	1
8	360105	Cover	1
9	#	Screw, M6 x 16	3
10	360512	Screw	1
11	360181	Seal kit	1

Item	Part Number	Description	Quantity
			Variation 4426
16	#	Nut, flange, M10	6
12	224058	Valve	1
13	224095	Spring	1
14	223410	Washer	1
15	223653	Fitting plug	1
17	#	Screw, M8 x 55	2
18	360140	Stud	4
19	360514	Stud	2
20	360082	Bushing	1
21	360021	Gear	1
22	360148	Thrust washer	1
23	#	Screw, M10 x 50	1

Common hardware; procure locally

Group 34: Timing Gear Cover, continued

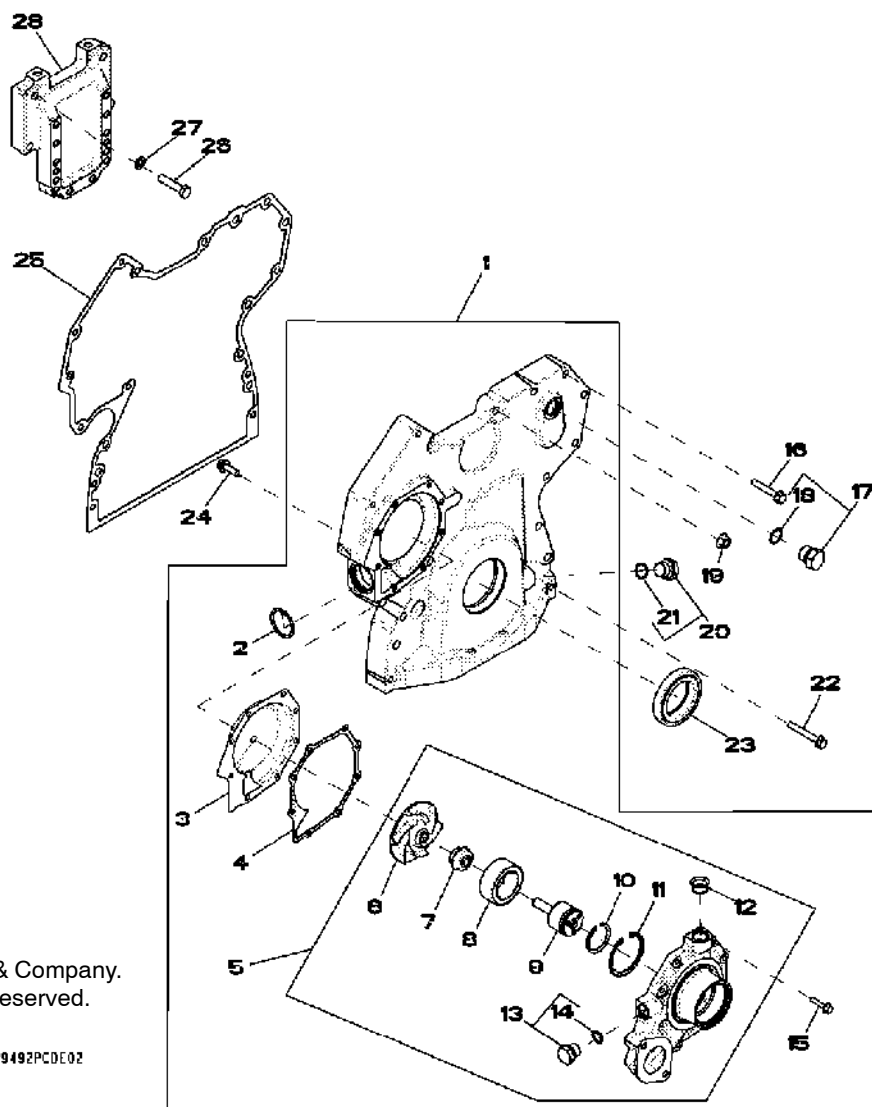


Item	Part Number	Description	Quantity	
			Variation 4433	4436
1	GM46695	Adapter	1	1
2	#	Screw, M10 x 45	4	4
3	GM17437	O-ring	1	1
4	GM17498	Fitting	1	
5	#	Flange nut, M10	9	
5	#	Flange nut, M8		9
6	360078	Plug, drain	1	1
7	360124	Gasket, water pump	1	1
8	GM17498	Fitting	1	
9	GM17443	Filter	1	
9	352812	Filter		1
10	360116	Gasket, water bypass tube	1	1
11	360003	Snap ring	1	1
12	360176	O-ring	1	1
13	360014	Plug	1	1
14	GM29382	Pump, water	1	

Item	Part Number	Description	Quantity	
			Variation 4433	4436
14	GM50009	Pump, water		1
15	#	Screw, M6 x 30	3	
15	#	Screw, M6 x 40		3
16	#	Screw, M6 x 25	5	5
17	360029	Kit, stainless steel insert	1	1
18	#	Screw, M8 x 50	3	8
19	GM46696	Kit, bearing	1	
19	360181	Seal kit		1
20	#	Screw, M8 x 50	5	
21	360180	O-ring, 17.3 x 2.2 mm	1	1
22	GM46697	Cover	1	
22	GM52532	Cover		1
23	GM24543	O-ring	1	1
24	GM46698	Gasket	1	
24	GM52533	Gasket		1
25	#	Screw, M8 x 25	1	1

Common hardware; procure locally

Group 34: Timing Gear Cover, continued



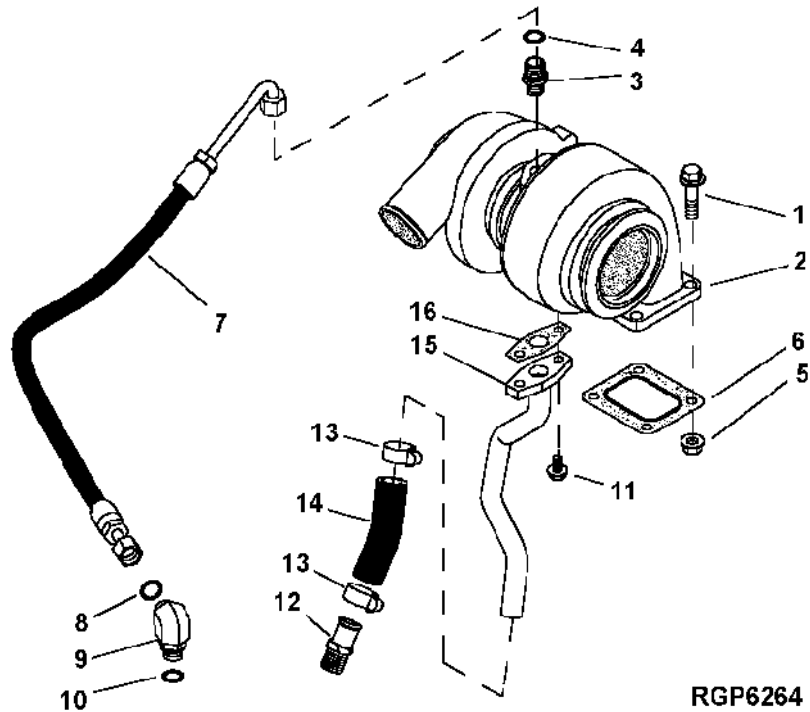
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RE 529492PCDE02

Item	Part Number	Description	Quantity
			Variation 4446
1	GM52532	Cover Kit	1
2	GM24543	O-Ring	1
3	360029	Kit, Stainless Steel Insert	1
4	360124	Gasket, Water Pump	1
5	GM29382	Pump, Water	1
6	-	Impeller (order item 5)	1
7	-	Seal (order item 5)	1
8	-	Ball Bearing (order item 5)	1
9	-	Shaft (order item 5)	1
10	360003	Snap Ring	1
11	GM49931	Ring	1
12	360116	Gasket, Water Bypass Tube	1
13	360014	Plug	1
14	360176	O-Ring 15.300 X 2.20 mm	1

Item	Part Number	Description	Quantity
			Variation 4446
15	#	Screw, M6 X 30	8
16	#	Screw, M8 X 50	5
17	GM17498	Fitting	1
18	GM17437	O-Ring	1
19	GM30375	Flange Nut, M10	9
20	360078	Plug, Drain	1
21	360180	O-Ring, 17.3 X 2.2 mm	1
22	#	Screw, M8 X 60	3
23	360181	Seal	1
24	#	Screw, M8 X 25	1
25	GM52533	Gasket	1
26	#	Cap Screw, M10 X 45	4
27	#	Washer, 10.5 x 18 x 1.6mm	4
28	GM52534	Support	1

Group 35: Turbocharger and Oil Lines

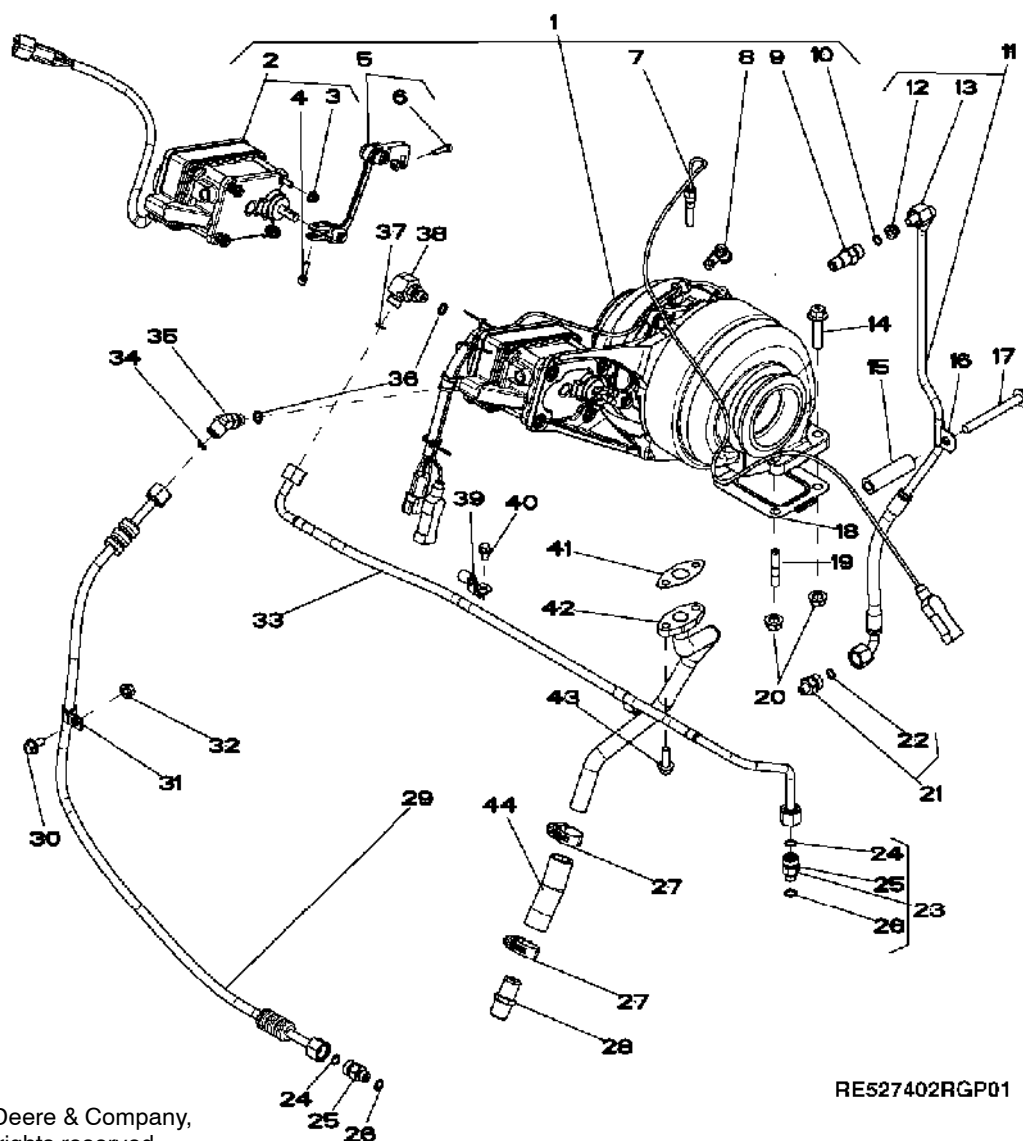


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Item	Part Number	Description	Quantity					
			Variation					
			65DX	65GR	65GU	65HP	65RF	65QC
1	#	Screw, cap, M10 x 40	4	4	4	4		
1	GM49852	Screw, cap					4	2
1	GM77157	Screw, cap						2
2	GM32943	Turbocharger	1					
2	GM32951	Turbocharger		1				
2	GM32952	Turbocharger			1	1		
2	GM50070	Turbocharger					1	
2	GM77155	Turbocharger						1
3	360006	Adapter	1	1	1	1	1	1
4	360165	O-ring	1	1	1	1	1	1
5	#	Nut, flange	4	4	4	4	4	2
6	360137	Gasket, turbo to exhaust manifold	1	1	1	1	1	1
7	GM24549	Hose, hydraulic	1	1	1		1	
7	GM23842	Oil line				1		
7	GM77156	Oil line						1
8	360555	O-ring	1	1	1	1	1	1
9	360556	Fitting, elbow, 45°	1	1	1	1	1	1
10	360557	O-ring	2	2	2	2	1	1
11	#	Screw	2	2	2	2	2	2
12	GM21492	Fitting, hose	1	1	1	1		
12	360102	Fitting, hose					1	1
13	360062	Clamp	2	2	2	2	2	2
14	GM32899	Hose	1	1	1	1		
14	GM49926	Hose					1	1
15	360025	Oil line	1	1	1			
15	GM46699	Oil line				1		
15	GM50081	Oil line					1	1
16	360136	Gasket, turbo oil outlet tube	1	1	1	1	1	1

Common hardware; procure locally

Group 35: Turbocharger and Oil Lines, continued



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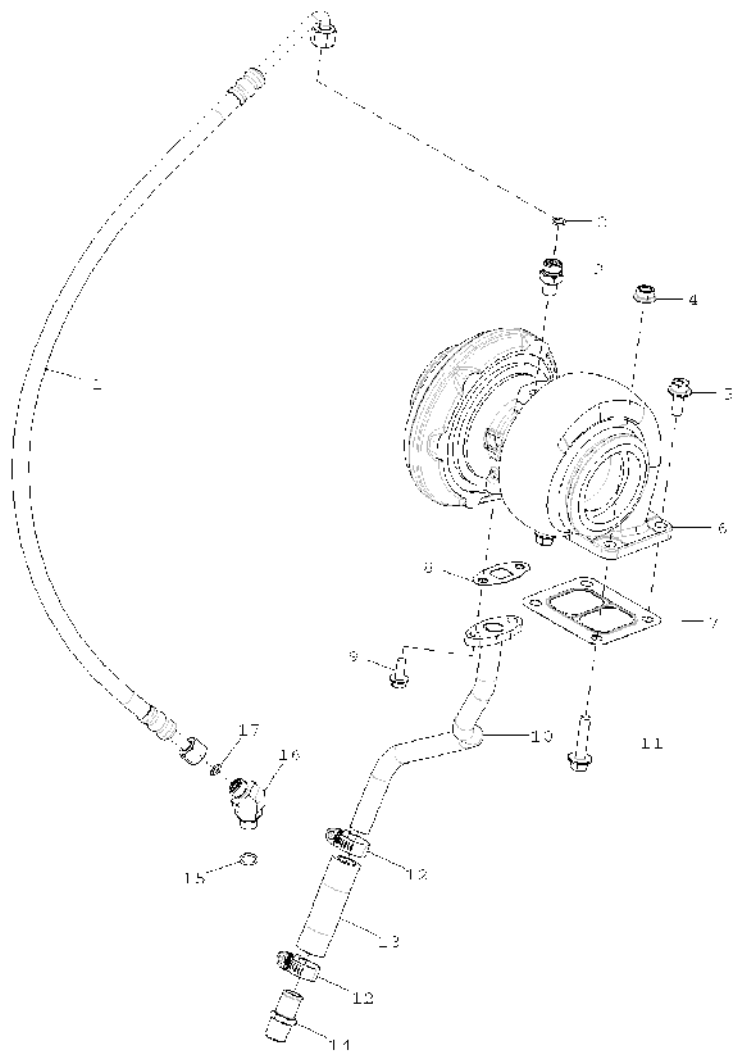
RE527402RGP01

Group 35: Turbocharger and Oil Lines, continued

Item	Part Number	Description	Quantity
			Variation 65PF
1	GM50046	Turbocharger	1
2	GM50014	Actuator	1
3	GM49824	Nut	4
4	GM50062	Screw with washer	1
5	GM50022	Linkage	1
6	GM50062	Screw with washer	2
7	GM50015	Sensor	1
8	GM49901	Clamp	2
9	GM50027	Fitting	1
10	360165	O-ring	1
11	GM50060	Line	1
12	—	Shoulder fitting (order item 11)	2
13	—	Tube nut (order item 11)	2
14	GM49852	Cap screw	2
15	GM49881	Spacer	1
16	GM50085	Clamp	1
17	#	Screw	1
18	GM49856	Gasket	1
19	GM49897	Stud	2
20	#	Flange nut	4
21	GM49990	Adapter fitting	1
22	360555	O-ring	1
23	GM49821	Adapter fitting	2
24	360555	O-ring	1
25	GM49819	Adapter fitting	1
26	360178	O-ring	1
27	360062	Clamp	2
28	GM21492	Fitting, hose	1
29	GM50002	Radiator hose	1
30	#	Screw	1
31	223666	Clip	1
32	#	Flange nut	1
33	GM50029	Hose	1
34	360555	O-ring	1
35	GM50023	Fitting	1
36	360178	O-ring	1
37	360555	O-ring	1
38	GM49820	Elbow fitting	1
39	GM49885	Clamp	2
40	GM50057	Screw	2
41	GM49894	Gasket	1
42	GM50036	Line	1
43	GM49825	Screw	2
44	GM32899	Hose	1
45	GM32899	Hose	1

Common hardware; procure locally

Group 35: Turbocharger and Oil Lines, continued

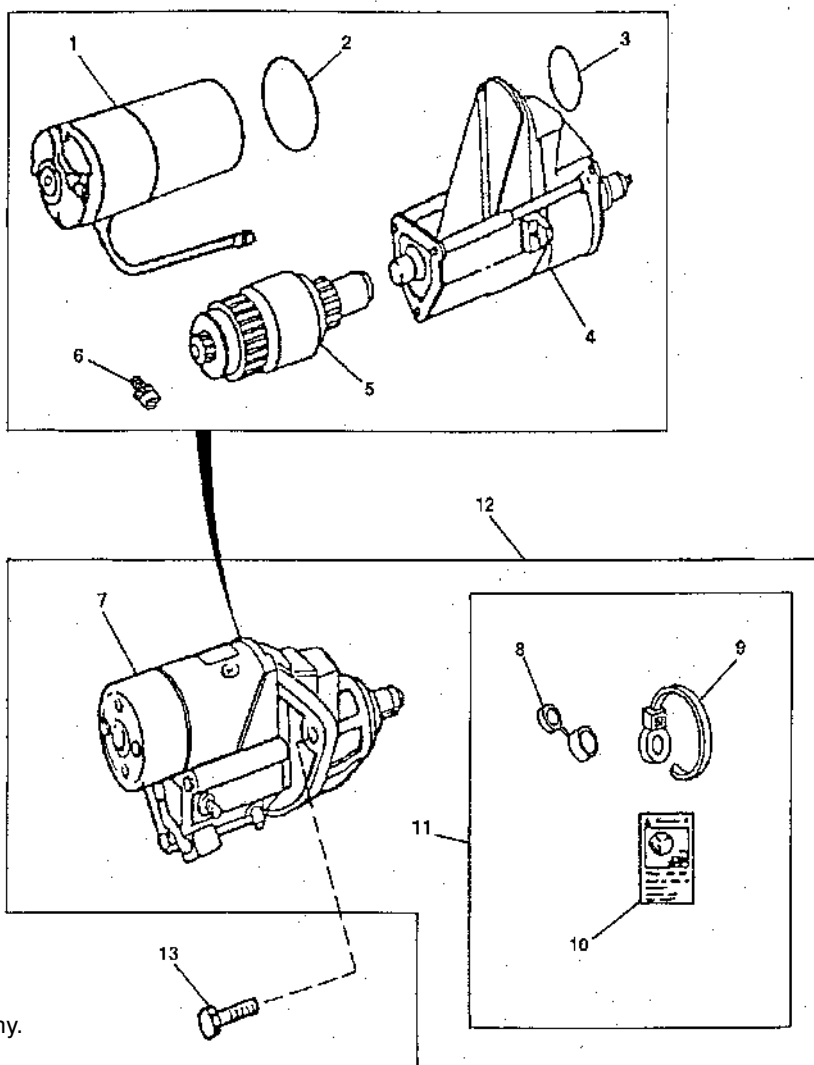


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Group 35: Turbocharger and Oil Lines, continued

Item	Part Number	Description	Quantity
			Variation 65ZR
1	GM52537	Oil Line	1
2	360165	O-Ring	1
3	360006	Adapter	1
4	GM30375	Flange Nut, M10	2
5	GM77157	Cap Screw	2
6	GM86409	Turbocharger	1
7	360137	Gasket, Turbo To Exhaust Manifold	1
8	360136	Gasket, Turbo Oil Outlet Tube	1
9	#	Screw, M8 X 20	2
10	GM50081	Oil Line	1
11	GM49852	Cap Screw	2
12	360062	Clamp	2
13	GM49926	Hose	1
14	GM21492	Fitting, Hose	1
15	360557	O-Ring 13.300 X 2.200 MM	1
16	360556	Elbow Fitting, 45 Deg.	1
17	360555	O-Ring	1

Group 36: Starter Motor

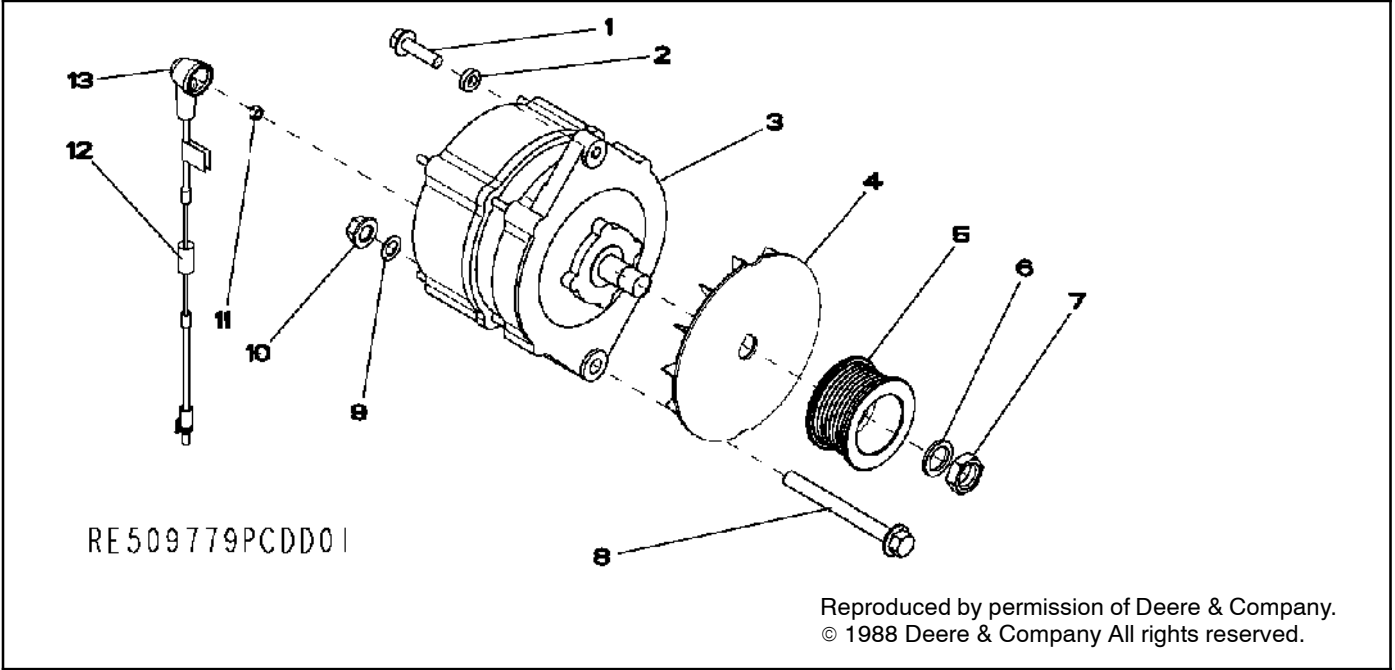


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Item	Part Number	Description	Quantity	
			Variation	
			3006	3041
1	—	Motor	1	1
2	GM17463	Seal	1	1
3	GM17464	O-ring	1	1
4	GM17544	Switch	1	
4	GM17546	Switch		1
5	GM17545	Clutch	1	
5	GM17547	Clutch		1
6	GM18874	Screw, with washer, M5 x 0.8	1	1
7	—	Motor, 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

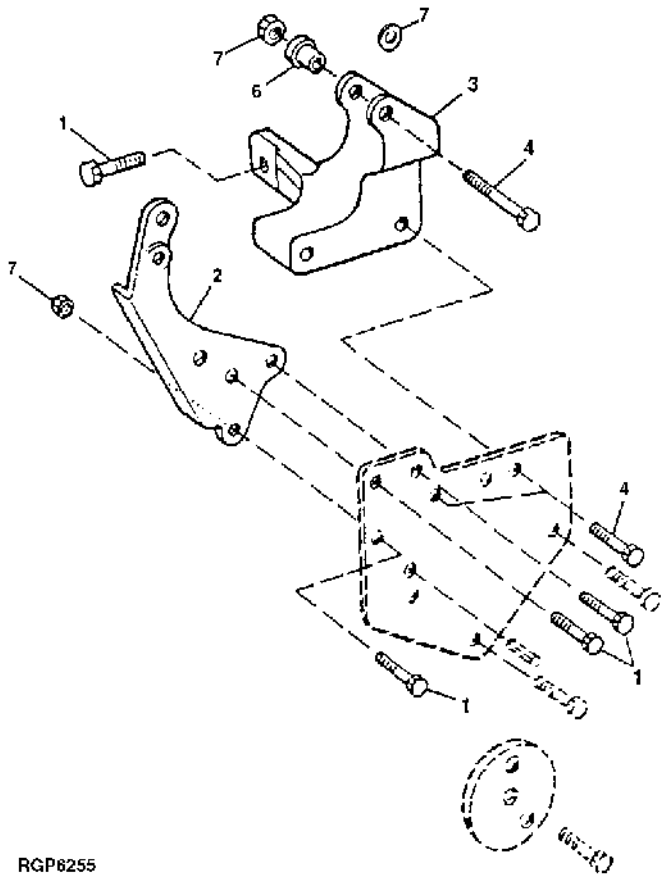
Group 37: Alternator



Item	Part Number	Description	Quantity	
			Variation	
			3138	3142
1	#	Screw	1	1
2	GM18719	Washer	1	1
3	GM51918	Alternator, 12 V	1	
3	GM50998	Alternator, 24 V		1
4	360588	Fan	1	1
5	GM17485	Pulley, alternator	1	1
6	224331	Washer	1	1
7	#	Nut, M16	1	1
8	#	Screw, M10 x 100	1	1
9	360166	Thrust washer		1
10	#	Nut, flange	1	1
11	#	Nut	1	1
12	GM32923	Harness, wiring	1	1
13	#	Boot	1	1

Common hardware; procure locally

Group 38: Alternator Mounting

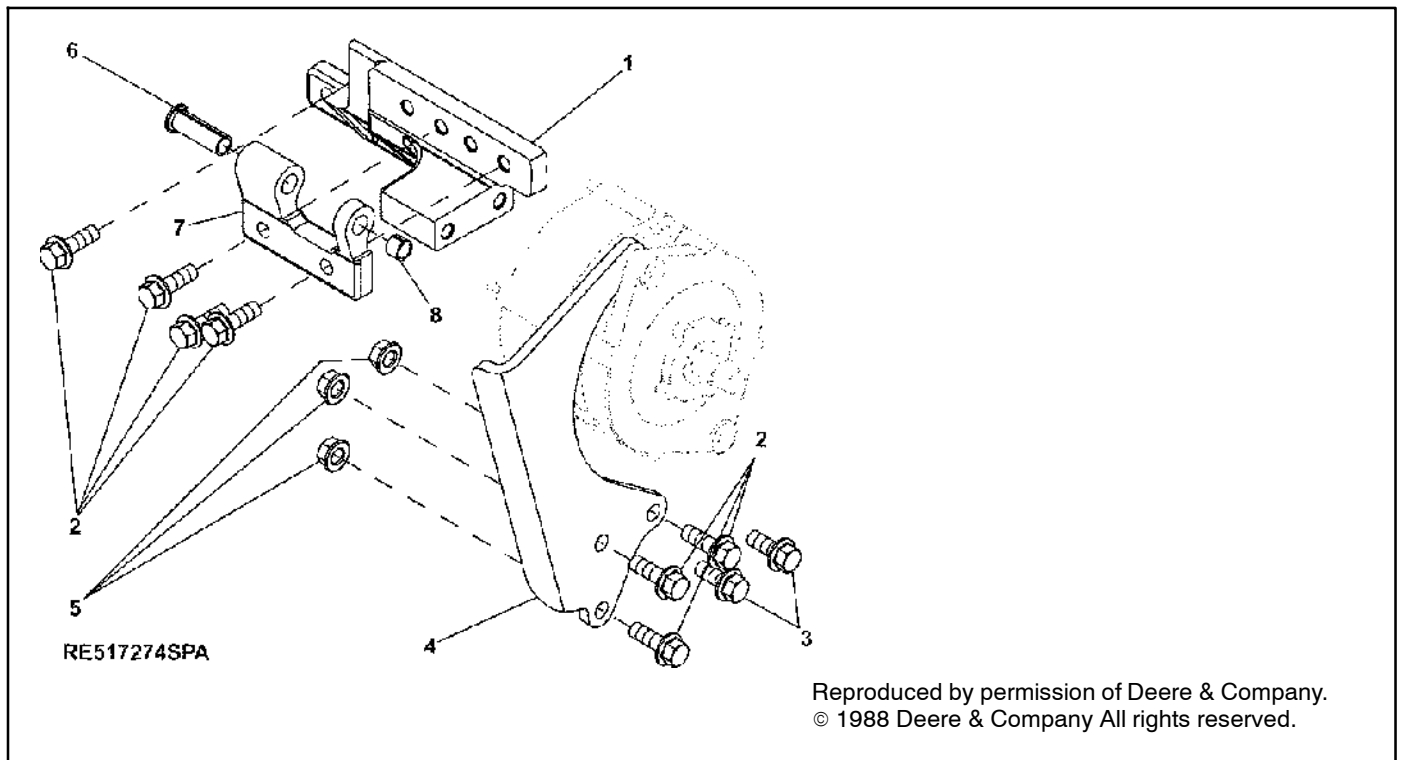


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RGP6255

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

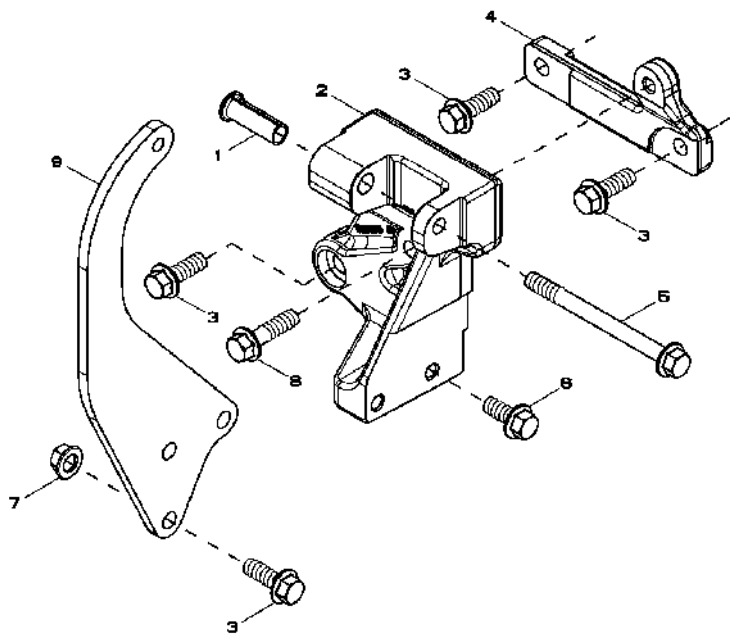
Group 38: Alternator Mounting



Item	Part Number	Description	Quantity
			Variation 6256
1	GM46700	Bracket	1
2	#	Screw, M10 x 30	7
3	#	Screw, M10 x 25	2
4	GM46701	Strap	1
5	#	Flange nut	3
6	GM46702	Bushing	1
7	GM46703	Bracket	1
8	GM18707	Bushing	1

Common hardware; procure locally

Group 38: Alternator Mounting, continued

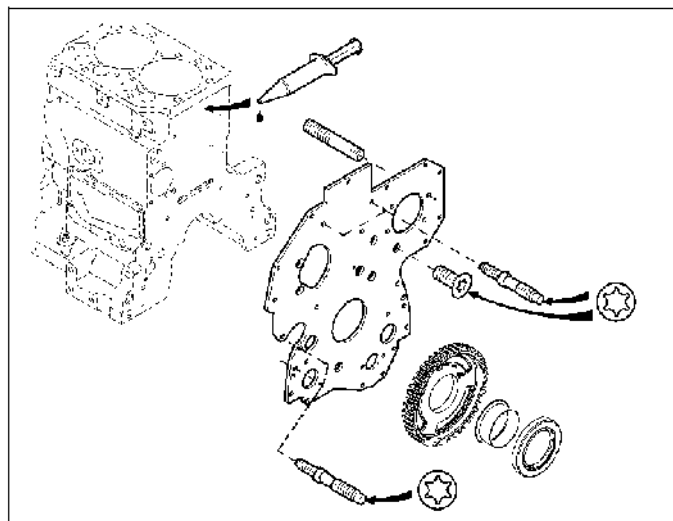
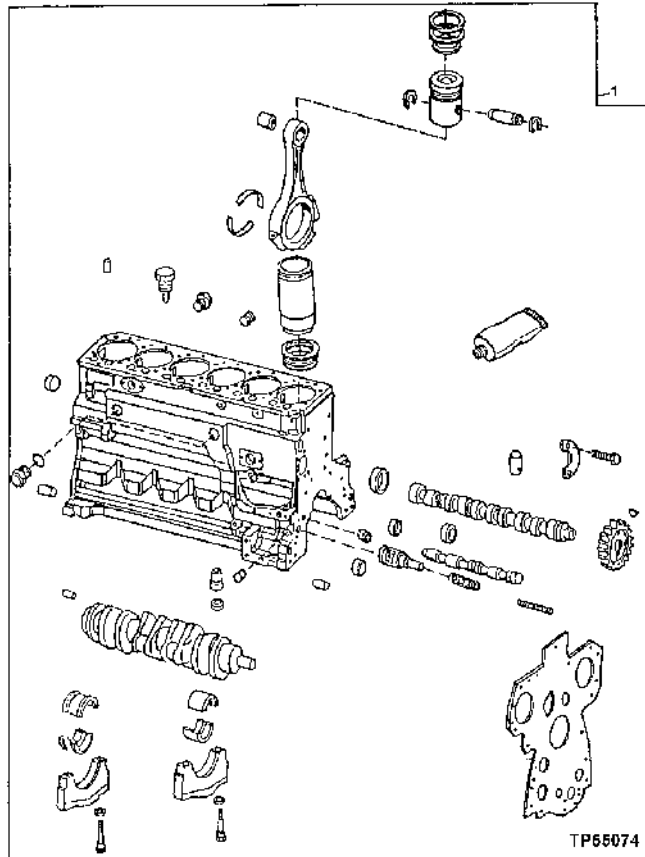


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Item	Part Number	Description	Quantity	
			Variation	
			6272	6278
1	GM46702	Bushing	1	1
2	GM49887	Bracket	1	1
3	#	Screw, M10 x 30	4	6
4	GM49923	Bracket		1
5	#	Screw, M10 x 120	1	1
6	#	Screw, M10 x 25		2
7	#	Flange nut, M10	3	3
8	#	Screw, M10 x 40	2	2
9	GM49888	Strap	1	1

Common hardware; procure locally

Group 39: Short Block



Front plate kit

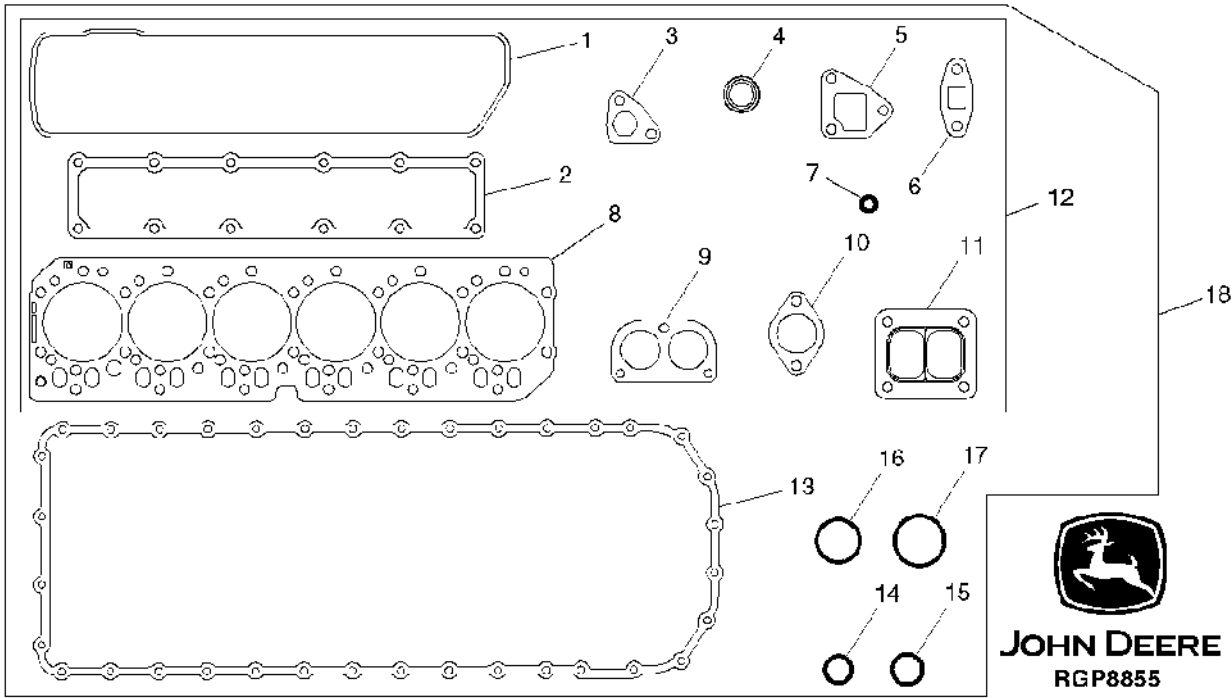
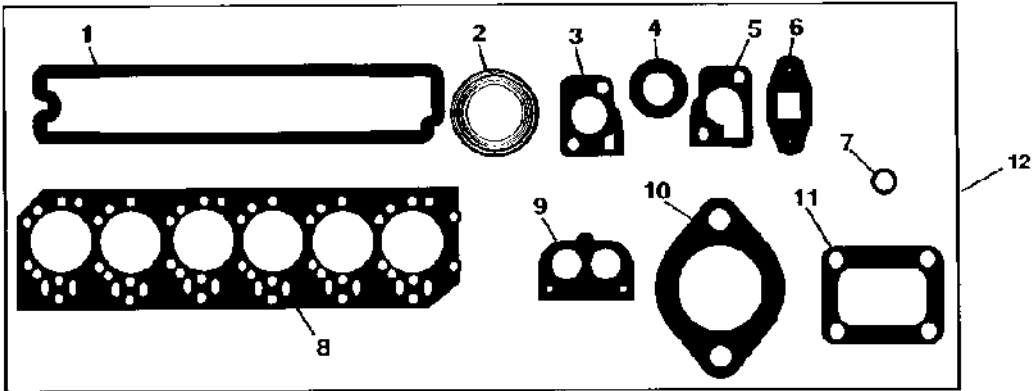
CDP45146

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Item	Part Number	Description	Quantity		
			Variation		
			1	2	3
1	GM32945	Block assembly, short	1		
1	GM46704	Block assembly, short		1	
1	GM50067	Block assembly, short			1

Note: Also order front plate kit part number GM32946 for 150/180 kW models.

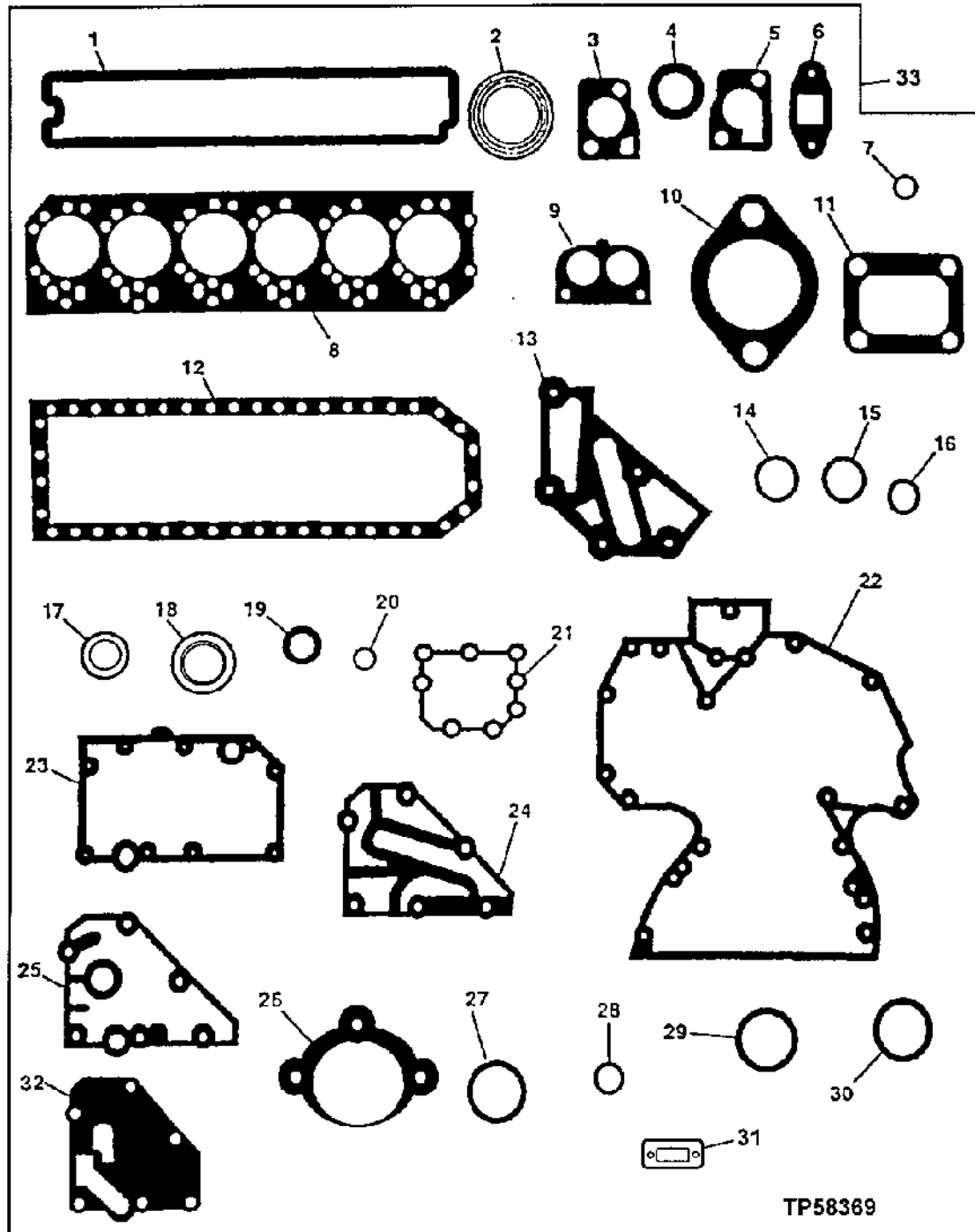
Group 40: Cylinder Head Gasket Set



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Item	Part Number	Description	Quantity	
			Variation 1	Variation 2
12	360063	Gasket kit (includes items 1-11)	1	
18	GM46705	Gasket kit (includes items 1-11, 13-17)		1

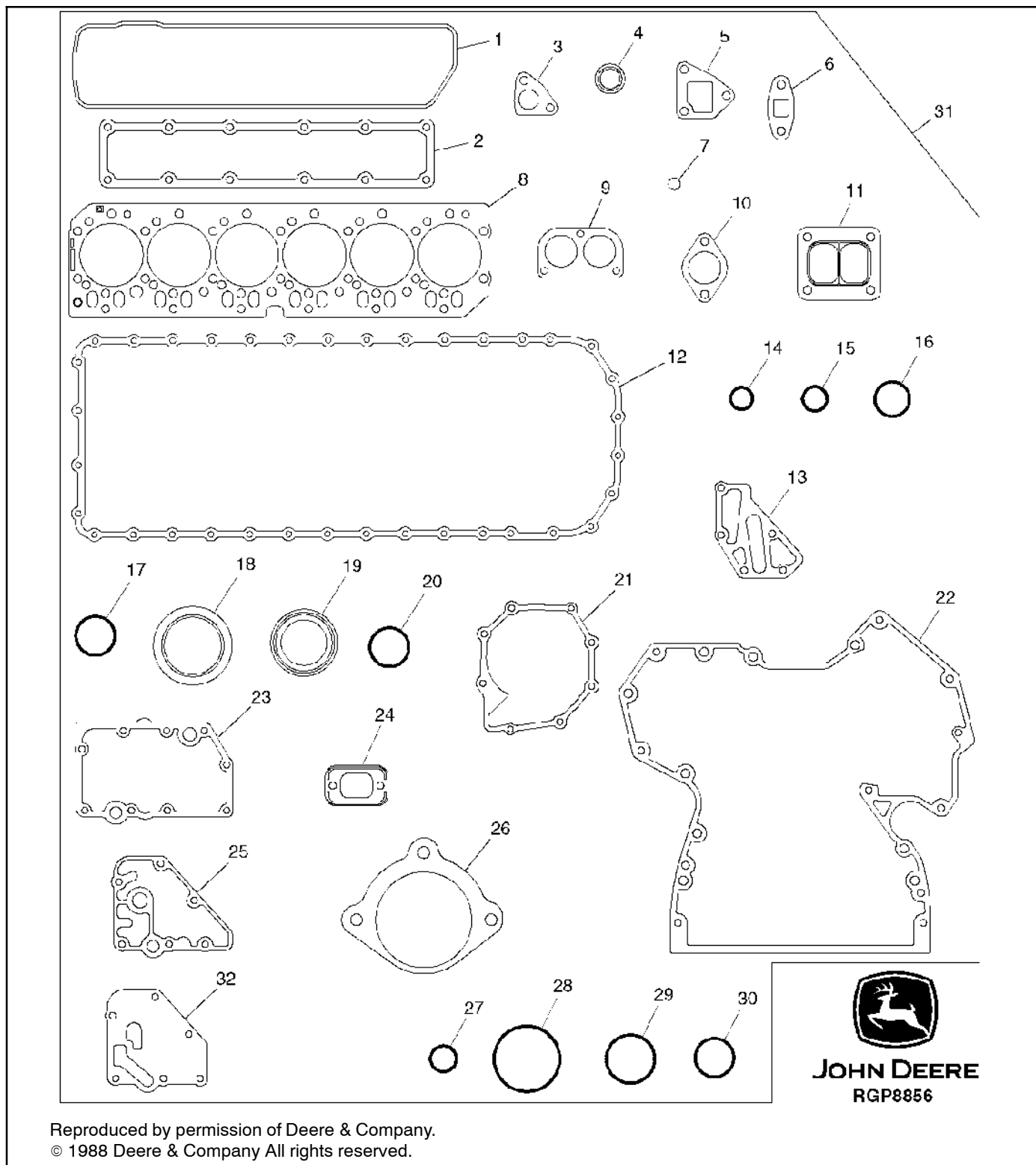
Group 41: Overhaul Gasket Set



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Item	Part Number	Description	Quantity Variation
33	GM24544	Gasket kit (includes items 1-32)	1

Group 41: Overhaul Gasket Set, continued

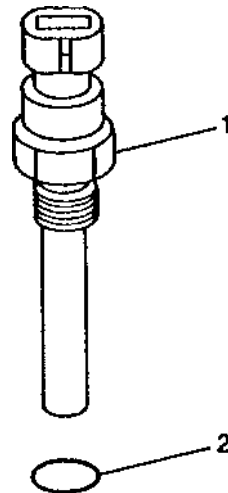


Item	Part Number	Description	Quantity	
			Variation	
			2	3
31	GM46706	Gasket kit (includes items 1-30, 32)	1	
31	GM50054	Gasket kit		1

Group 42: Engine Sensor

Items 3-7 not shown.

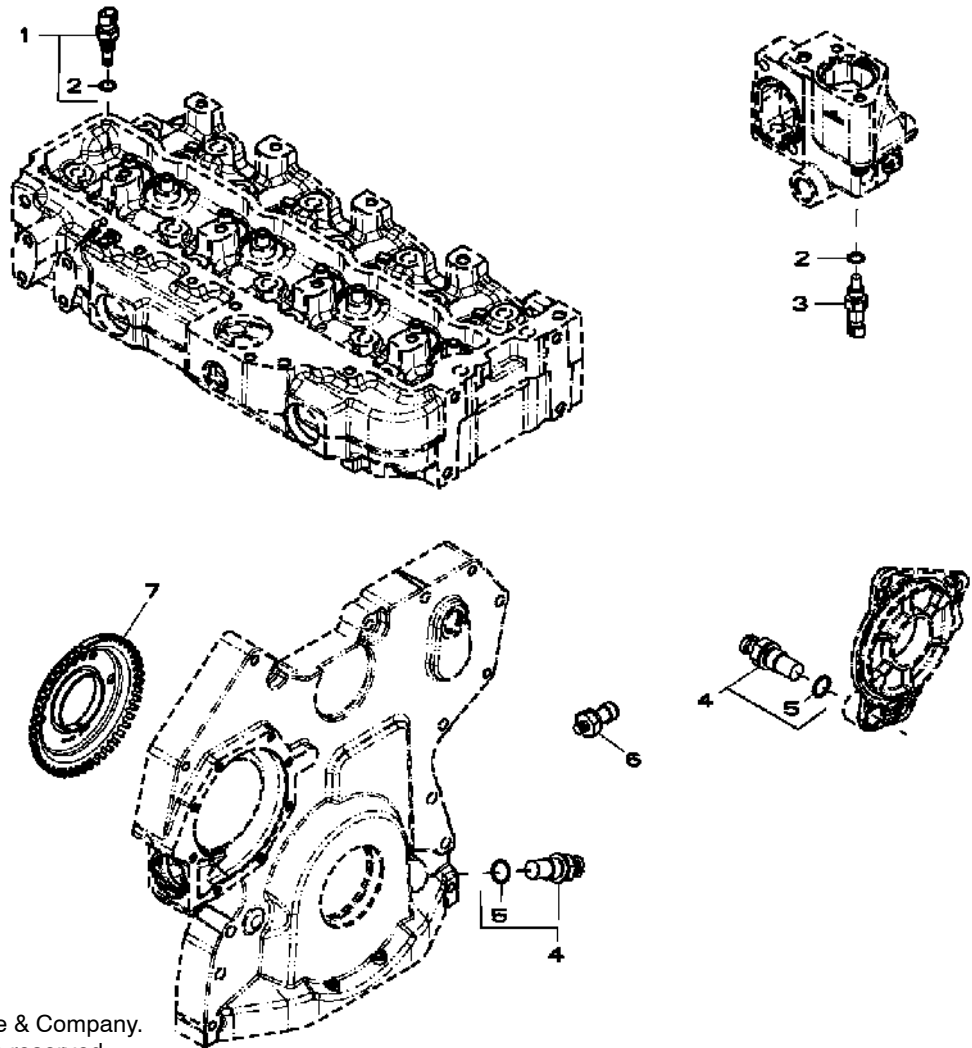
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TP44658

Item	Part Number	Description	Quantity		
			Variation		
			6709	6710	7635
1	GM32955	Sensor, coolant temperature	1	1	
2	GM21508	O-ring	2	2	
3	GM32919	Sensor, fuel pressure	1		
4	GM32938	Sensor, crankshaft position	2	2	
5	GM32958	Sensor, air temperature	1	1	
6	GM32909	Wheel	1	1	
7	GM32919	Sensor, oil pressure (code 7635)	1	1	1

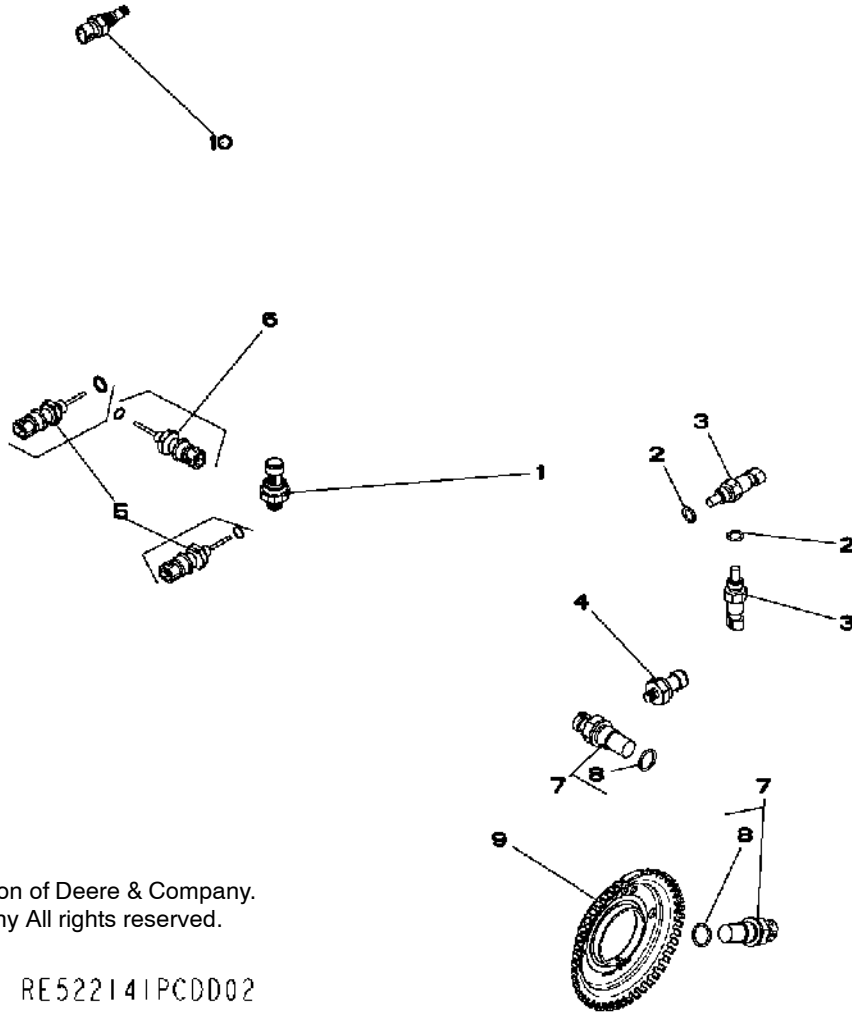
Group 42: Engine Sensor, continued



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Item	Part Number	Description	Quantity
			Variation 6730
1	GM50034	Thermocouple, air temperature	2
2	GM21508	O-ring	1
3	GM32955	Sensor, coolant temperature	1
4	GM49939	Sensor	2
5	360180	O-ring, 17.3 x 2.2 mm	1
6	GM32919	Sensor, pressure	4
7	GM49838	Wheel	1

Group 42: Engine Sensor, continued



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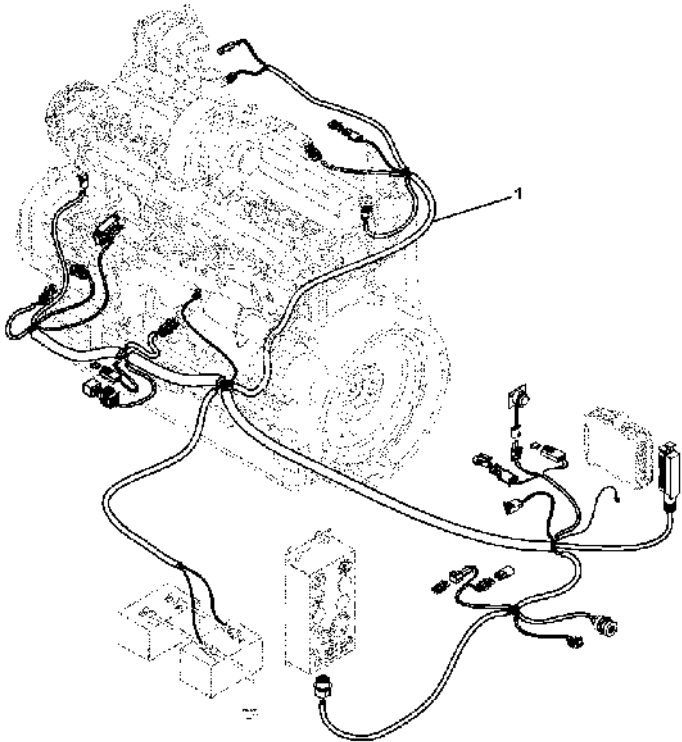
RE522141PCDD02

Item	Part Number	Description	Quantity
			Variation 6717
1	GM49999	Manifold air press. sensor	2
2	GM21508	O-ring	4
3	GM32955	Sensor, coolant temperature	4
4	GM32919	Sensor, pressure	1
5	GM50004	Temperature sensor, exhaust gas recirculation	1
6	GM50003	Temperature sensor	2
7	GM49939	Sensor, engine speed	2
8	360180	O-ring, 17.3 x 2.2 mm	1
9	GM49838	Wheel	1
10	GM50034	Thermocouple, air temperature	1

Group 43: Wiring Harness

Items 2-8 not shown.

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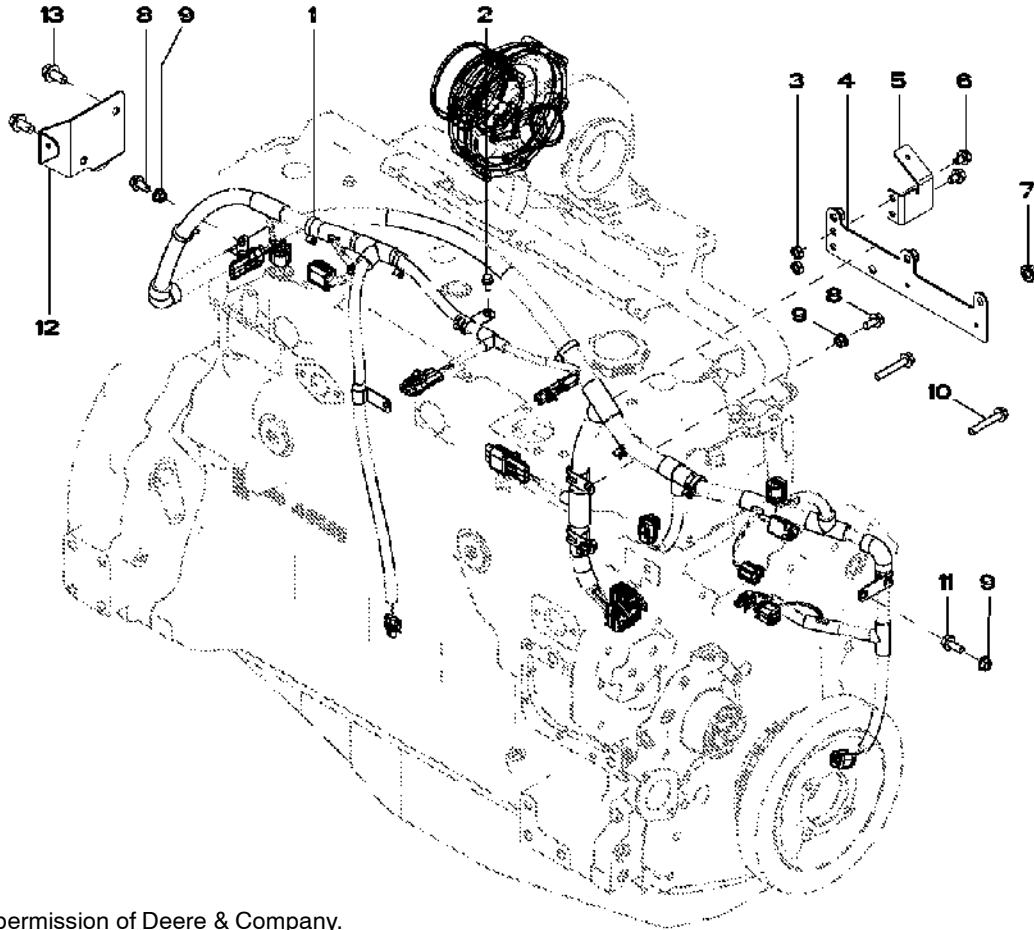


JOHN DEERE
 RGP7859

Item	Part Number	Description	Quantity			
			Variation			
			8407	8414	8415	8411
1	GM32822	Harness, wiring	1			
1	GM32953	Harness, wiring		1		
1	GM32954	Harness, wiring			1	
1	GM46707	Harness, wiring				1
2	GM32950	Support	1			
2	GM32961	Support		1	1	
3	GM32847	Bushing	1			
4	#	Screw, cap, M10 x 40	1			
4	#	Screw, cap, M10 x 16		1	1	2
4	#	Screw, M8 x 12				1
4	#	Screw, M8 x 20				1
5	#	Washer, lock	1			2
6	GM32897	Cap	1			1
7	GM32962	Clamp		1	1	
7	GM46708	Clamp				1
8	GM32964	Clamp		1	1	
8	GM46708	Clamp				1
9	#	Flange nut				1

Common hardware; procure locally

Group 43: Wiring Harness

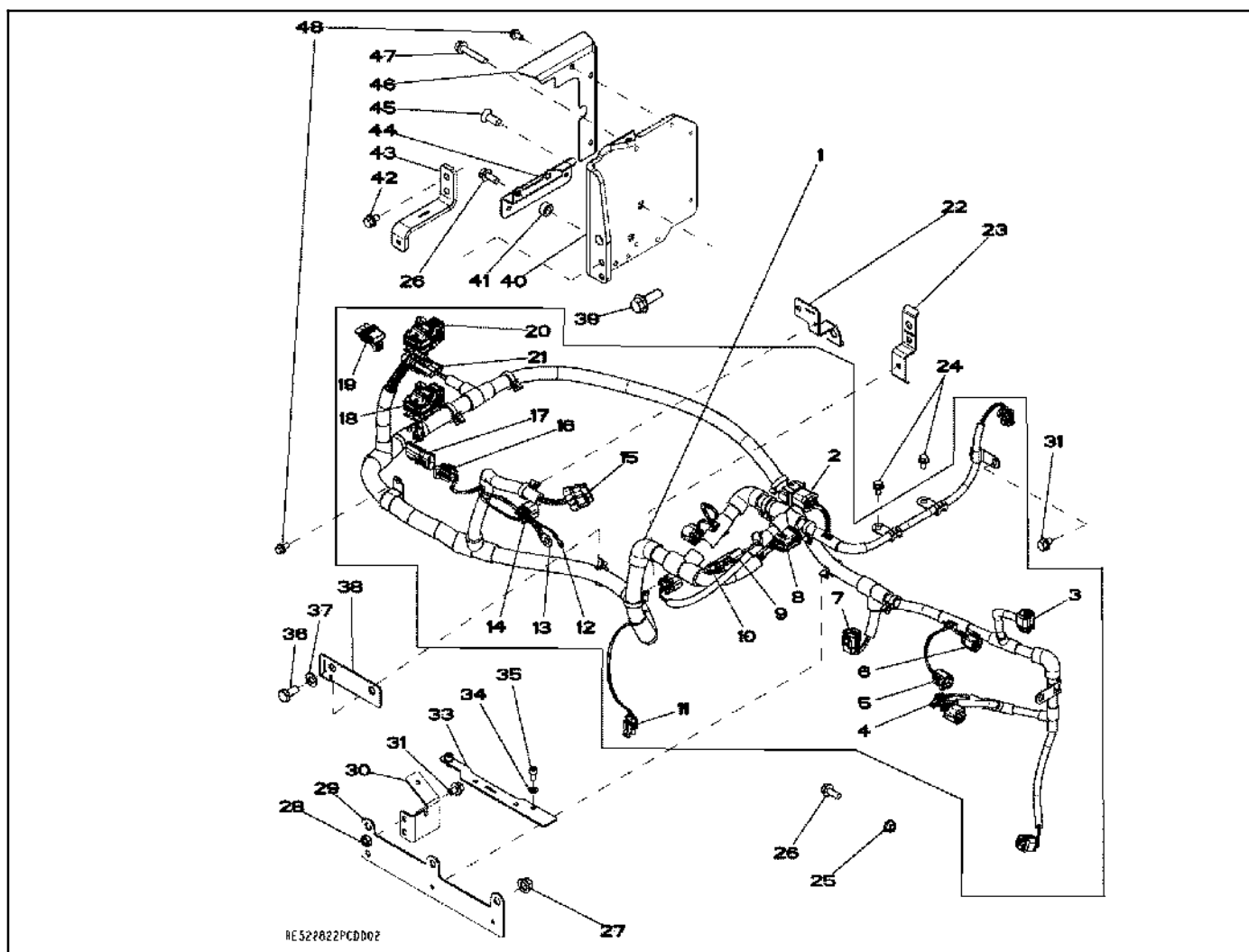


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Item	Part Number	Description	Quantity		
			8438	Variation 8456	8457
1	GM50064	Wiring harness	1		
2	GM50057	Screw	1		
3	—	Weld nut	NA		
4	GM50075	Bracket	1	1	
5	GM49905	Bracket	1	1	
6	GM50033	Cap screw	2	2	
7	#	Flange nut, M10	3	3	
8	#	Screw, M8 x 16	3		
9	#	Flange nut, M8	4		
10	#	Screw, M8 x 50	2	2	
11	#	Screw, M8 x 20	1		
12	GM49917	Bracket	1	1	
13	GM32765	Screw	2	2	

Common hardware; procure locally

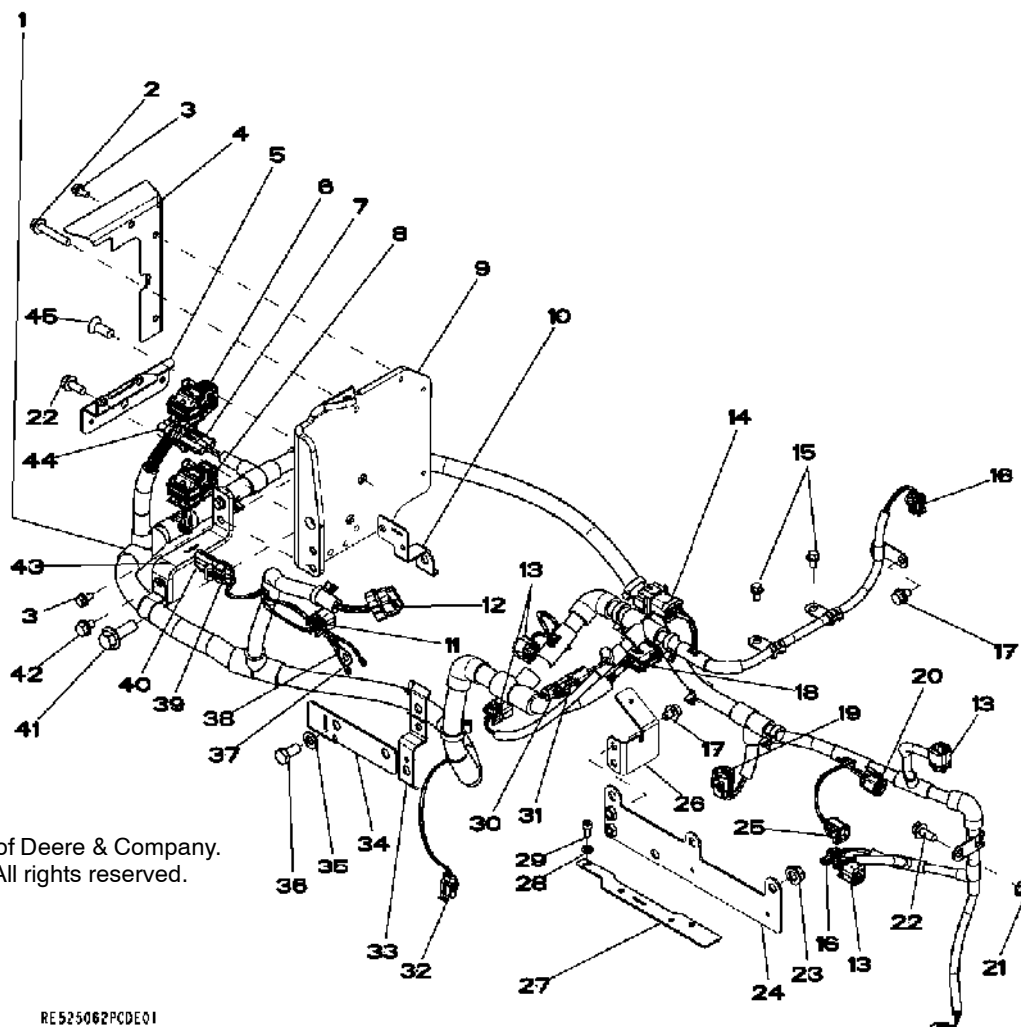
Group 43: Wiring Harness, continued



Item	Part Number	Description	Quantity	
			Variation	8496
1	GM50058	Wiring harness, 24V	1	
2	#	Elec. Connector housing	1	
3	#	Elec. Connector housing	5	
4	#	Elec. Connector housing	3	
5	#	Elec. Connector	1	
6	#	Elec. Connector housing	1	
7	#	Elec. Connector housing	1	
8	#	Elec. Connector housing	1	
9	GM32804	Connector	1	
10	GM32805	Connector	1	
11	#	Electrical connector assy	1	
12	#	Elec. Connector terminal	2	
13	#	Elec. Connector terminal	1	
14	#	Elec. Connector housing	1	
15	#	Elec. Connector housing	1	
16	GM50701	Elec. Connector terminal	1	
17	GM50702	Elec. Connector housing	1	
18	#	Elec. Connector housing	1	
19	GM50700	Electrical connector assy	1	
20	#	Electrical connector housing	1	
21	GM32770	Connector	1	
22	GM49899	Bracket	1	
23	GM49921	Bracket	1	
24	GM50057	Screw	2	
25	#	Flange nut	1	

Item	Part Number	Description	Quantity	
			Variation	8496
26	#	Screw	3	
27	#	Flange nut	3	
28	-	Weld nut (order item 29)	1	
29	GM50075	Bracket	2	
30	GM49905	Bracket	3	
31	GM50033	Cap screw	3	
32	GM50033	Cap screw	1	
33	GM49913	Bracket	3	
34	#	Washer	2	
35	#	Screw	2	
36	#	Cap screw	2	
37	#	Washer	2	
38	GM49920	Bracket	2	
39	#	Screw, M12 x 35	2	
40	GM49850	Bracket	1	
40		Bracket		1
41	224334	Washer	2	
42	#	Screw, M8 x 12	2	
43	GM49922	Bracket	1	
44	GM49925	Bracket	1	
45	#	Screw, M10 x 25	2	2
46	GM49879	Bracket	3	
47	#	Screw, M8 x 45	2	
48	#	Screw, M6 x 10	3	

Group 43: Wiring Harness, continued



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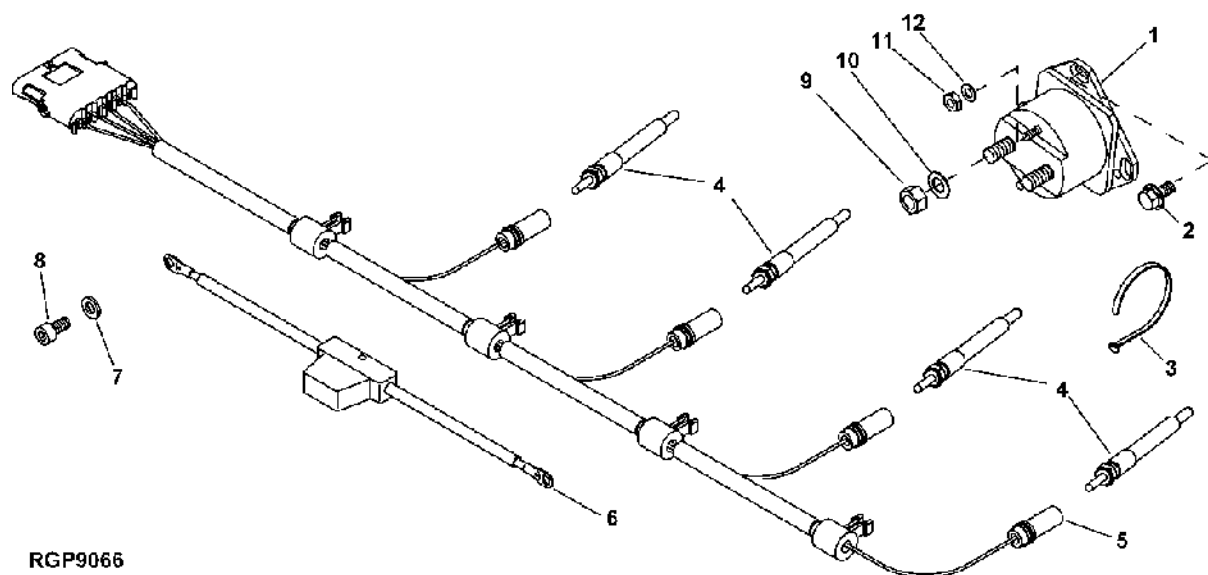
RE525062PCDE01

Item	Part Number	Description	Quantity Variation 8428
1	GM50058	Wiring harness, 24V	1
2	#	Screw, M8 x 45	1
3	#	Screw, M6 x 12	5
4	GM49879	Bracket	3
5	GM49925	Bracket	1
6	#	Elec. Connector housing	1
7	GM32770	Connector	1
8	#	Elec. Connector housing	1
9	GM49850	Bracket	1
10	GM49899	Bracket	1
11	#	Elec. Connector housing	1
12	#	Elec. Connector housing	2
13	#	Elec. Connector housing	1
14	#	Elec. Connector housing	1
15	GM50057	Screw	1
16	#	Elec. Connector housing	1
17	GM50033	Cap screw	1
18	#	Elec. Connector housing	1
19	#	Elec. Connector terminal	1
20	#	Elec. Connector terminal	1
21	#	Flange nut	1
22	#	Screw, M8 x 20	1
23	#	Flange nut	1

Item	Part Number	Description	Quantity Variation 8428
24	GM50075	Bracket	2
25	#	Electrical connector assy	1
26	GM49905	Bracket	3
27	GM49913	Bracket	3
28	#	Washer	2
29	#	Screw, M6 x 12	1
30	GM32805	Connector	1
31	GM32804	Connector	3
32	#	Electrical connector assy	1
33	GM49921	Bracket	1
34	GM49920	Bracket	2
35	#	Washer	2
36	#	Cap screw, M10 x 20	2
37	#	Elec. Connector terminal	2
38	#	Elec. Connector terminal	1
39	#	Elec. Connector terminal	1
40	#	Elec. Connector housing	1
41	#	Screw, M12 x 35	2
42	#	Screw, M8 x 12	2
43	GM49922	Bracket	1
44	#	Electrical connector assy	1
45	#	Screw, M10 x 25	2

Common hardware; procure locally

Group 44: Starting Aid

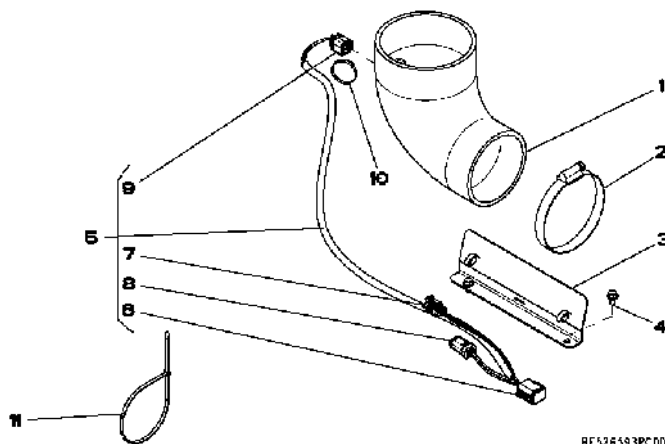


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Item	Part Number	Description	Quantity	
			Variation	
			4318	4329
1	GM46710	Starter relay	1	1
2	#	Screw, M6 x 12	2	2
3	#	Tie band	2	2
4	GM46711	Glow plug	1	1
5	GM46712	Wiring harness	1	
5	GM50024	Wiring harness		1
6	GM46713	Jumper	1	1
7	#	Washer, 6.6 x 12 x 1.6 mm	2	3
8	#	Screw, M6 x 12	2	3
9	#	Nut, 0.190 in.	2	2
10	#	Nut, 5/16 in.	2	2
11	#	Lock Washer, 8.4 mm	2	2
12	#	Washer, 5.300 mm		2

Common hardware; procure locally

Group 45: Turbo Air Inlet

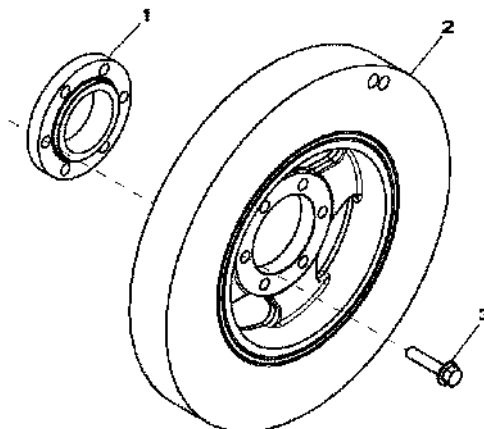


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RE526393PCD001

Item	Part Number	Description	Quantity	
			Variation	5402
1	GM50040	Hose	1	
2	GM50083	Hose clamp	1	
3	GM49912	Bracket	1	
4	GM50057	Screw	2	
5	GM50061	Wiring harness	1	
6	#	Elec. Connector housing	1	
7	#	Elec. Connector housing	1	
8	#	Elec. Connector housing	1	
9	#	Elec. Connector housing	1	
10	GM49908	Block clamp	1	
11	#	Tie band	1	

Group 46: Damper Assembly

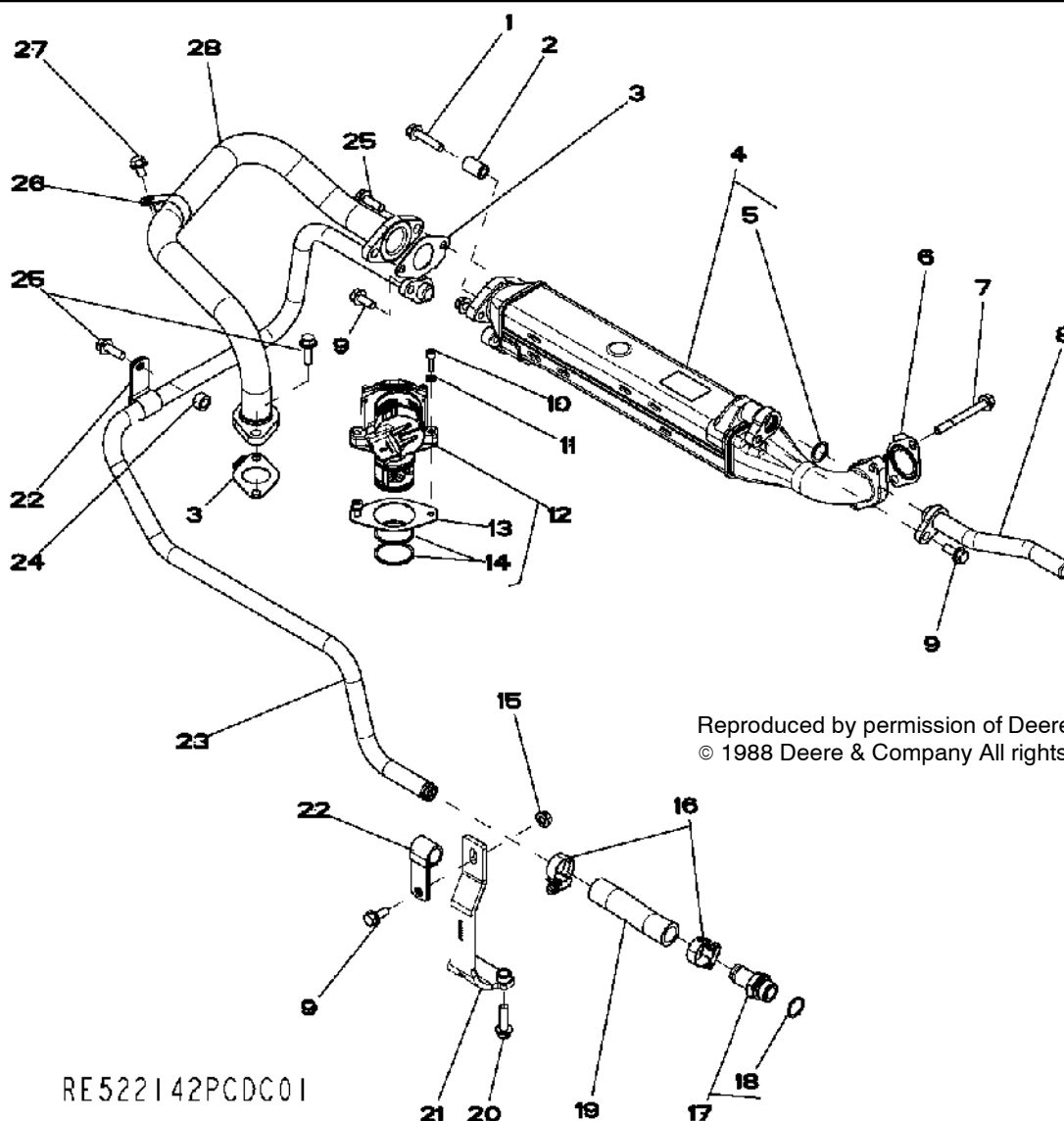


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Item	Part Number	Description	Quantity	
			6813	6895
1	GM77160	Adapter	1	
2	GM50231	Torsional Damper	1	
3	#	Screw, M10 x 45	6	
	-	Not used. See Group 20		1

Common hardware; procure locally

Group 47: Exhaust Gas Recirculation



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Item	Part Number	Description	Quantity	
			Variation	
			8901	8918
1	#	Screw, M8 x 40	1	1
2	GM49844	Bushing	1	1
3	GM49843	Gasket	2	2
4	GM49995	Heat exchanger	1	1
5	GM49840	O-ring	2	2
6	GM49854	Gasket	1	1
7	GM49882	Cap screw	2	2
8	GM50000	Tube	1	1
9	#	Screw, M8 x 20	7	7
10	#	Screw, M6 x 20	2	2
11	#	Washer, 6.600 x 12 x 1.600	2	2
12	GM50063	Valve	1	
12		Valve		1
13	GM49849	Gasket	1	1
14	GM49878	O-ring	2	2

Item	Part Number	Description	Quantity	
			Variation	
			8901	8918
15	#	Flange nut, M8	1	1
16	360062	Clamp	1	1
17	GM50019	Fitting	1	1
18	GM17437	O-ring	1	1
19	GM49859	Radiator hose	1	1
20	#	Screw, M8 x 30	2	2
21	GM50021	Bracket	1	1
22	GM18876	Clamp	2	2
23	GM50001	Tube	1	1
24	224334	Washer	1	1
25	#	Screw, M8 x 25	1	1
26	GM49851	Clamp	1	1
27	#	Screw, M8 x 12	1	1
28	GM50025	Tube	1	1

Common hardware; procure locally

Appendix A Common Hardware Identification

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

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

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

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

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

Sample Dimensions

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

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

Metric (Screws, Bolts, Studs, and Nuts)

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

Plain Washers

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

Lock Washers

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

Appendix B Common Hardware List

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

American Standard

Part No. Dimensions 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.

