

PARTS MANUAL

**FORTIS®
H135FT, H155FT
(J006)**

CUSTOMER EDITION

HYSTER

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ABBREVIATIONS QUICK REFERENCE SHEET

Listed below are abbreviations used in parts manuals to denote the following expressions:

TERM	DEFINITION	TERM	DEFINITION
Amp	Amperes	FRE	Freezer Environment
AR	As Required	in.	inches
BDI	Battery Discharge Indicators	LPG	Liquefied Petroleum Gas
BWI	Brush Wear Indicator	MAP	Manifold Absolute Pressure
CE	Communicator End	mm	millimeters
CRE	Corrosive Environment	MSTS	Microprocessor Spark Timing System
D/B	Date Break	NPT	National Pipe Threads
dbA	Decibel "A" Scale	O/S	Oversize
DE	Drive End	PTO	Power Take Off
ECH	Empty Container Handler	RPM	Revolutions per Minute
ECH-3	Empty Container Handler - 3 High Stacking	S/N	Serial Number
ECH-4	Empty Container Handler - 4 High Stacking	TMM	Truck Management Module
ECH-5	Empty Container Handler - 5 High Stacking	UL Type D	Diesel-Powered Safety Rating
ECH-6	Empty Container Handler - 6 High Stacking	UL Type DS	Diesel-Powered Safety Rating
ECH-7	Empty Container Handler - 7 High Stacking	UL Type E	Battery-Powered Safety Rating
ECM	Electronic Control Module	UL Type EE	Battery-Powered Safety Rating
ECN	Engineering Change Notice	UL Type ES	Battery-Powered Safety Rating
EEPROM	Electrically Erasable Programmable Read Only Memory	UL Type G	Gasoline-Powered Safety Rating
EPA	US Environmental Protection Agency	UL Type GS	Gasoline-Powered Safety Rating
EPROM	Electrically Programmable Read Only Memory	UL Type LP	Gas-Powered Safety Rating
		UL Type LPS	LP Gas-Powered Safety Rating
		U/S	Undersize
		UL	Underwriters Laboratory
		V	Volts

HOW TO USE THE ILLUSTRATED PARTS MANUAL

This parts manual describes and illustrates assemblies, subassemblies, and detail parts needed for service replacement.

The different constructions are indicated by keys and footnotes. The callouts correspond to descriptions found on the next page.

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FRAME

ELECTRICAL SYSTEM

TRANSMISSION HOUSING ⇒ S/N D001H-2628

KEY:
A: Diesel
B: Gasoline and LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	2022547	Transmission	1
2	2023329	Transmission	1
3	2021670	Case	2
4	2023418	Bearing Cap	4
5	296426	Washer	1
6	293991	Bolt	2
7	2021390	Cover	2
8	1371656	Colter Pin	4
9	2021915	O-Ring	1
10	2021675	Plug	4
11	2021336	Housing	22
12	287860	Pin	39
13	292682	Bolt	1
14	2021345	Lockwasher	1
15	214364	Hydraulic Pump	8
16	296418	⇒ Figure 5-3	8
17	2021388	Gasket	1
18	2021389	Bolt	1
19	2021383	Washer	1
20	292515	Temperature Switch	1
21	136692	Breather	9
22	292527	Dipstick	9
23	292531	Bolt	2
24	292583	Nut	3
25	293637	Cap screw	3
26	296420	Lockwasher	4
27	996403	Transmission Kit (Includes item 7)	1
28	996405	Transmission Kit (Includes item 14)	1

This Parts Manual is divided into 11 major sections which are listed above. Quick be made by placing the right thumb on the tab of the desired section, bending the pages to the corresponding tab.

©Copy Right Date HYSTER COMPANY See Service Manual for service procedures 5-15

HP990004

HOW TO FIND THE DESIRED PART NUMBER

WHEN THE PART NUMBER AND THE NEXT HIGHER ASSEMBLY IS NOT KNOWN:

1. Determine the function and application of the part required. Turn to the Sections Page. Choose the general area of reference most likely to include the part.
2. Turn to the section you chose. Use the Section Table of Contents to determine the assembly which would normally contain the part required. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS NOT KNOWN AND THE NEXT HIGHER ASSEMBLY IS KNOWN:

3. Determine the assembly the required part is used on. Turn to the Table of Contents (Page i).
4. Locate the assembly the required part is used on and turn to the page indicated for that assembly. Then locate the part on the assembly breakdown page.

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 14-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

The assembly breakdowns include part numbers, descriptions, quantities required, keys and footnotes to help in selecting correct parts.

6. Parts Supersession Information. Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

Five periods in the PART NO. column (.) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a figure number in the DESCRIPTION column (☞ Figure 10)

7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and

subparts of assemblies. In the example on the previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.

9. Quantities shown are for one assembly. The quantities of the subpart *BEARING CAP* are indicated as two and two. This means two per *CASE* assembly.
10. Serial number breaks identify the most current parts information and are shown as follows:
 - **S/N D001H2628**
Indicates last serial number affected.
 - S/N D001H2629** →
Indicates the first serial number affected.
 - S/N D001H1553 ↔ S/N D001H3291**
Indicates a range of serial numbers affected.

ECN numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information and are identified as follows:

→ **S/N Pending Per ECN 63243**

Indicates a pending serial number for last unit affected.

S/N Pending Per ECN 63243 →

Indicates a pending serial number for first unit affected.

Date breaks are used to indicate when a change occurred but a subsequent serial number break was not recorded. This is an arbitrary date usually based on the ECN release and are identified as follows:

→ **D/B 3/00**

Indicates that a change occurred sometime within that month for the item affected.

D/B 3/00 →

Indicates that a change occurred sometime within that month for the item affected.

D/B 3/00 ↔ D/B 4/00

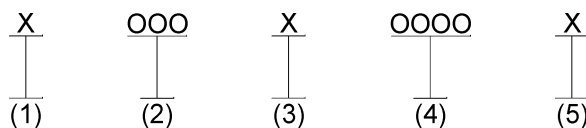
Indicates a range of production dates of the item affected.

Contact your local dealer for Hyster lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

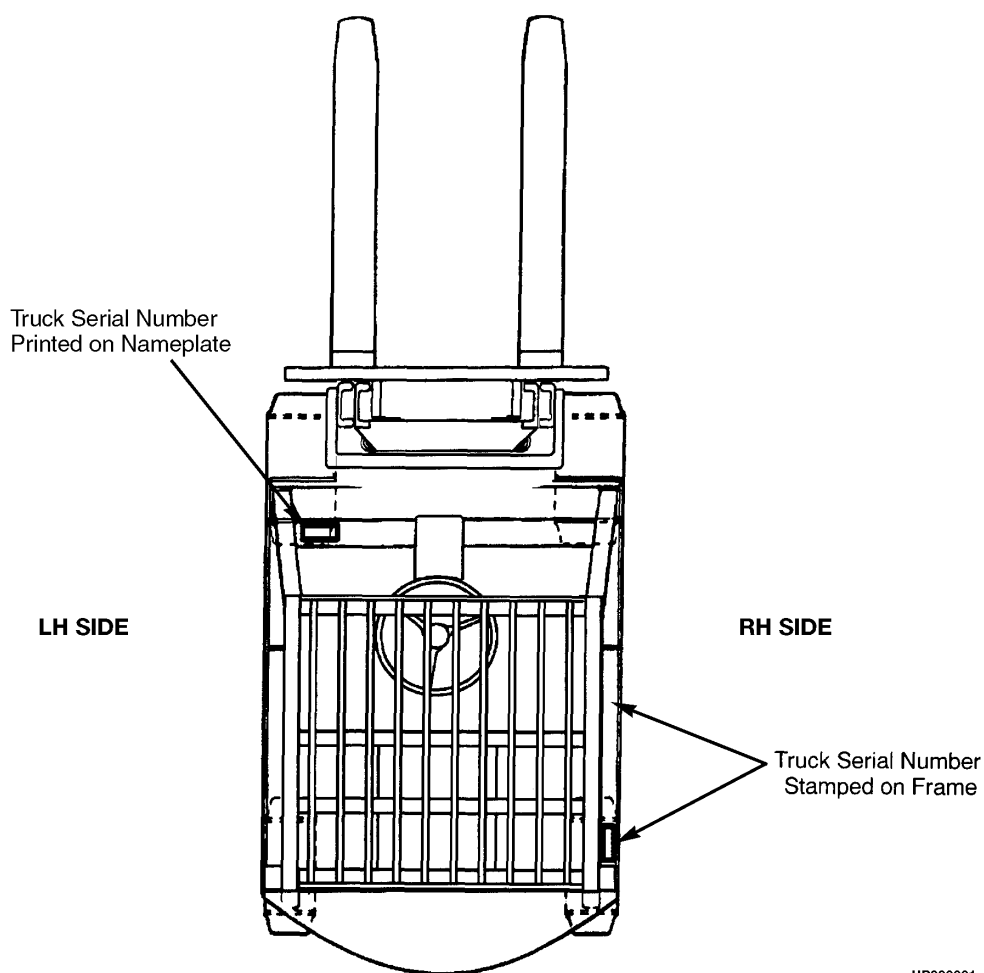
When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

For any further information on parts, service, or ordering, consult your local dealer for Hyster lift trucks.

IDENTIFICATION OF TRUCK SERIAL NUMBERS

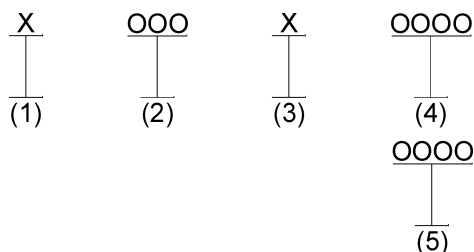
- (1) and (2) The first letter and three numbers indicate the truck unit code.
(3) The second letter indicates the plant of manufacture.
(4) The four or five digit number indicates the production sequence number of the truck.
(5) The final letter indicates the year of manufacture starting with "A" in 1957, 1980, and 2003.
The letters "I", "O", and "Q" will not be used.

For pending serial numbers contact your local dealer for Hyster lift trucks.



HP990001

Parts referred to in this book as right or left hand parts are in accordance with the illustration above.

IDENTIFICATION OF MAST SERIAL NUMBERS

- (1) and (2) The first letter and number indicates the mast unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the mast.
- (5) Carriage travel in millimeters stamped just below the serial number.

Mast Group identification consists of mast unit code (1) and (2) plus carriage travel (5).

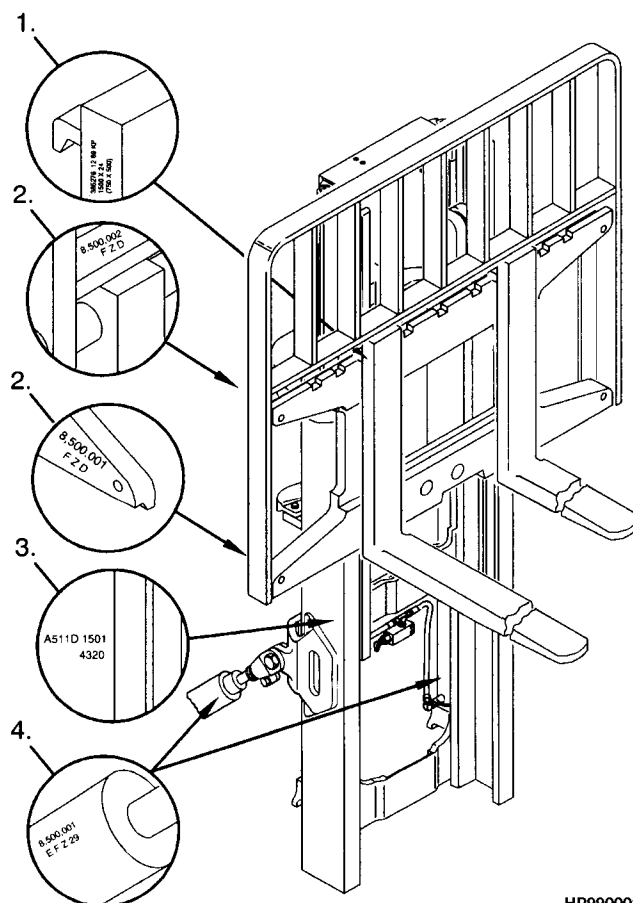
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

LIFT EQUIPMENT IDENTIFICATION

1. Fork part number, capacity rating, plant code letter, and date of manufacture are stamped approximately six inches below the top of most forks.
2. The carriage group number is stamped on the right hand side of the top crossmember (pin type) or on the back of the right hand end of the bottom crossmember (hook type). A date code has two letters in line with or below the carriage group number.
3. The mast identification number has a unit code, a letter indicating the plant of manufacture, and a serial number. Underneath the production sequence number is a four digit number that indicates the carriage travel in millimeters.
4. Tilt and lift cylinder group numbers are stamped on the cylinder shell.

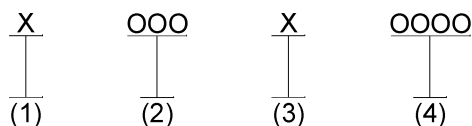
Always refer to the group, serial, or part number when ordering service parts.

Modification of masts and carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". contact your dealer for Hyster lift trucks for information on these assemblies.



HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS

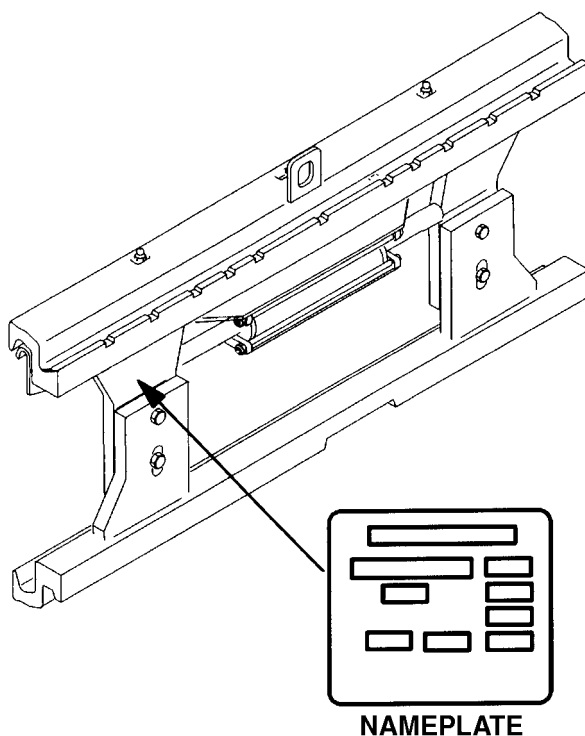


(1) and (2) The first letter and three numbers indicate the attachment unit code.

(3) The second letter indicates the plant of manufacture.

(4) The four or five digit number indicates the production sequence number.

For pending production sequence numbers contact your local dealer for Hyster lift trucks.



HP990003

Side-shift carriages and attachments have nameplates. Use the serial number found on the nameplate to identify the attachment.

Always refer to the group, serial, or part number when ordering service parts.

Modifications of attachments and side-shift carriages by SPED (Special Products Engineering Department) are identified by a model prefix code beginning with the letter "S". Contact your dealer for Hyster lift trucks for information on these assemblies.

PUBLICATIONS

Every new lift truck is provided with an OPERATING MANUAL. This manual has information that the operator must know for inspection and operation of the lift truck.

SERVICE MAINTENANCE MANUALS, which provide service and overhaul procedures, and PARTS

MANUALS with complete replacement part identification, are available at a nominal fee from your Hyster dealer to assist users in effectively maintaining Hyster lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

PUBLICATION	HYSTER PART NUMBER
Operating Manual.....	1653165
Service Manual (Complete).....	1698723
Parts Manual.....	1698731

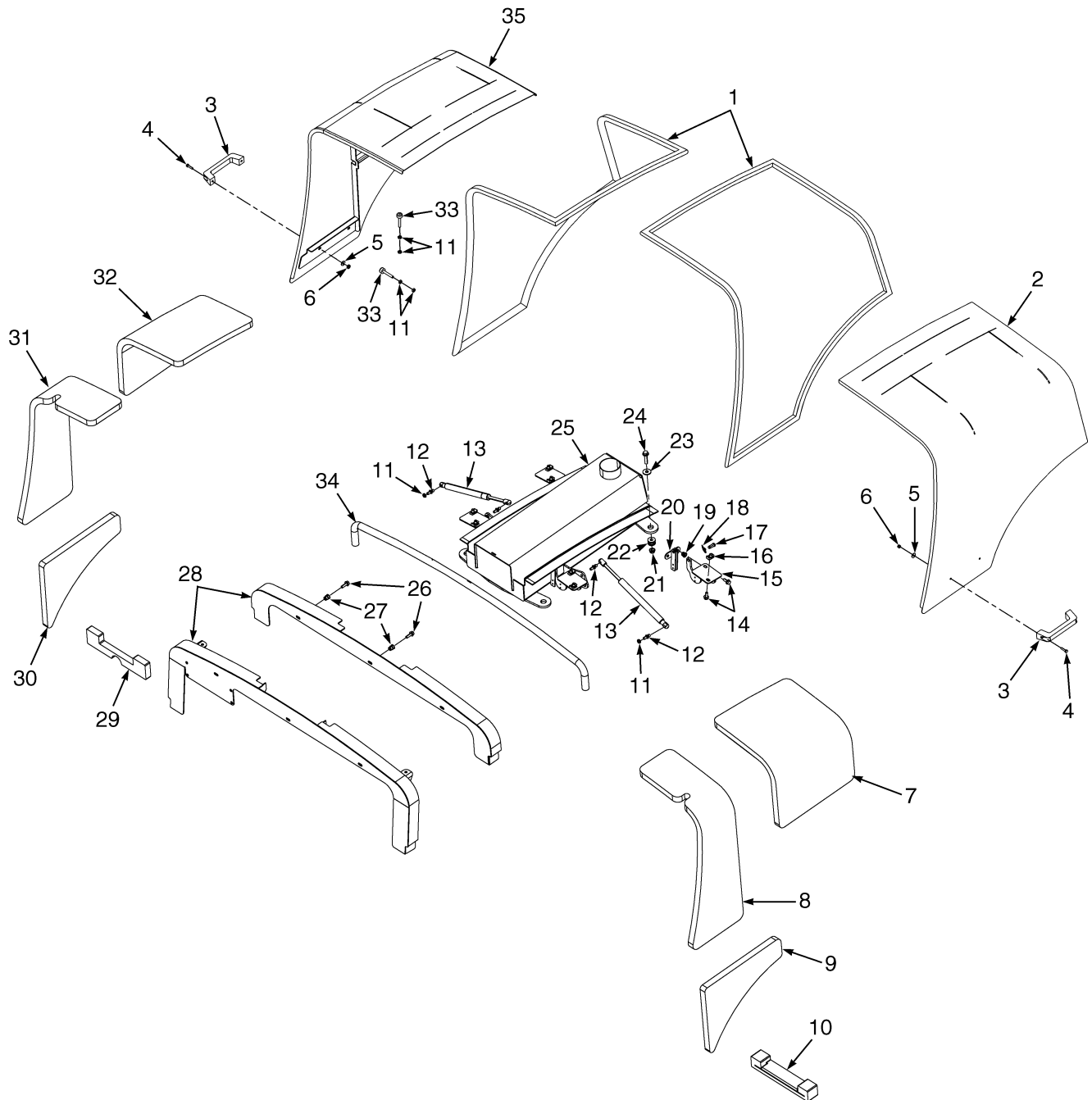
[illegible]

1	FRAME

SECTION 1
FRAME

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ATTACHING PARTS - SHEET 2 OF 2	1-26
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HOOD ASSEMBLY (FIGURE 1-1)

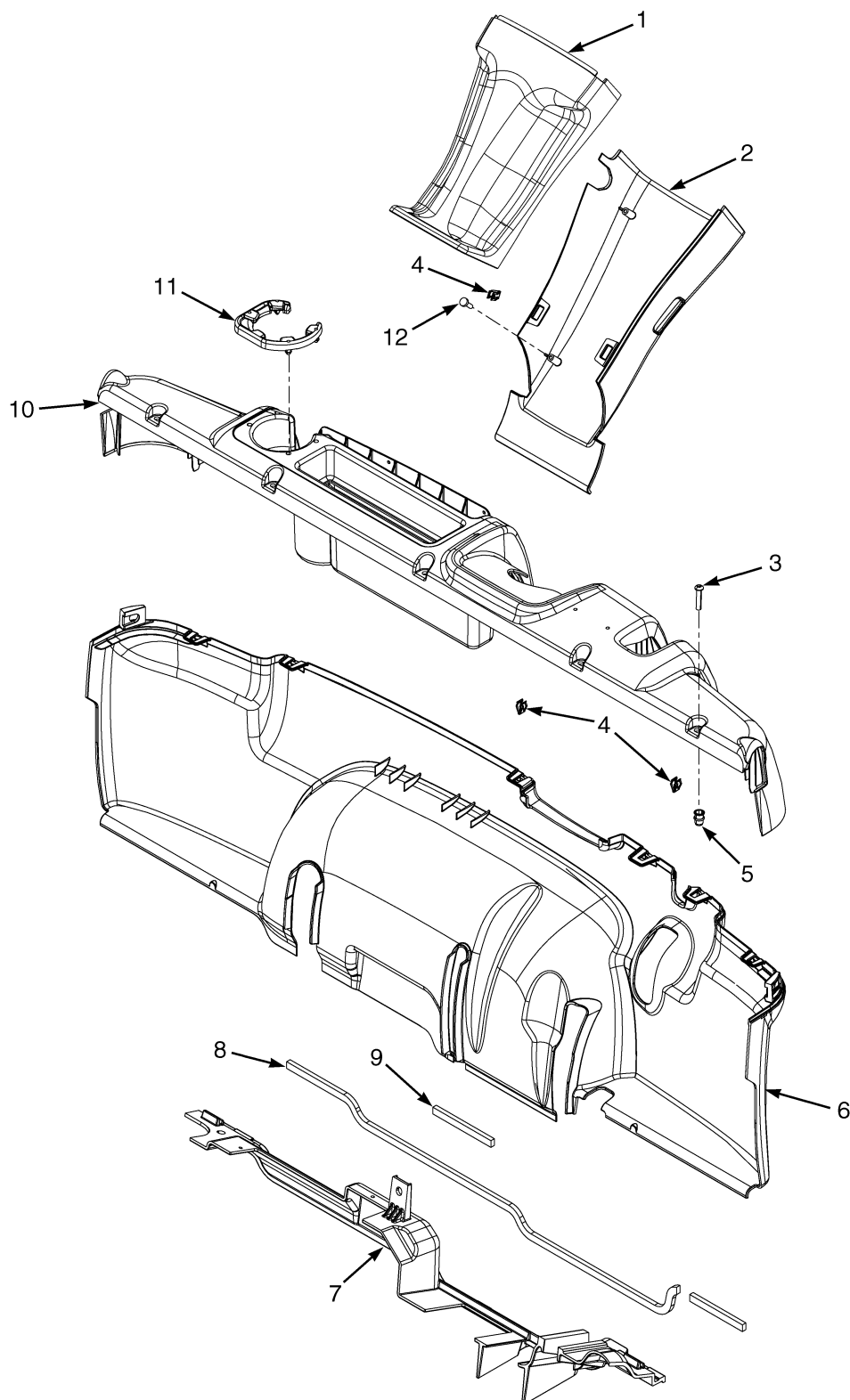


BP120329

HOOD ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	1675474	Seal	2
2	1664290	Hood (LH) (With Overhead Guard)	1
2	1664289	Hood (LH) (With Cab)	1
3	362030	Handle	2
4	287816	Capscrew	4
5	1476421	Washer	4
6	1581565	Nut	4
7	1650477	Sound Liner (LH)	1
8	1663631	Sound Liner (LH)	1
9	1650479	Sound Liner (LH)	1
10	1615395	Seal	1
11	1593335	Nut	12
11	320157	Washer (Not Illustrated)	8
12	4011397	Ball Stud	4
12	1563369	Ball Stud (Alternate Part)	4
13		Gas Spring	2
14	1527880	Capscrew	16
15	1639723	Hinge	2
15	1678274	Hinge (Alternate Part)	2
16	1480237	Nut	8
17	1375391	Pin (Rod End)	4
18	1351689	Lockring	4
19	1531557	Insert	8
20	1669446	Hinge (Base)	2
20	1678273	Hinge (Base) (Alternate Part)	2
21	1460477	Nut	4
22	317594	Motor Mount	4
23	1356113	Washer	4
24	1527886	Capscrew	4
25	1638510	Hood Support	1
26	1510113	Capscrew	3
27	1530243	Insert	3
28	1641590	Crossmember (With Overhead Guard)	1
28	1641591	Crossmember (With Cab)	1
29	1610906	Seal	1
30	1650480	Sound Liner (RH)	1
31	1663630	Sound Liner (RH)	1
32	1650473	Sound Liner (RH)	1
33	1585581	Bumper (Hood)	4
34	1615638	Seal	1
35	1664273	Hood (RH) (With Overhead Guard)	1
35	1664272	Hood (RH) (With Cab)	1

INTERIOR PANELS AND COVERS (FIGURE 1-2)

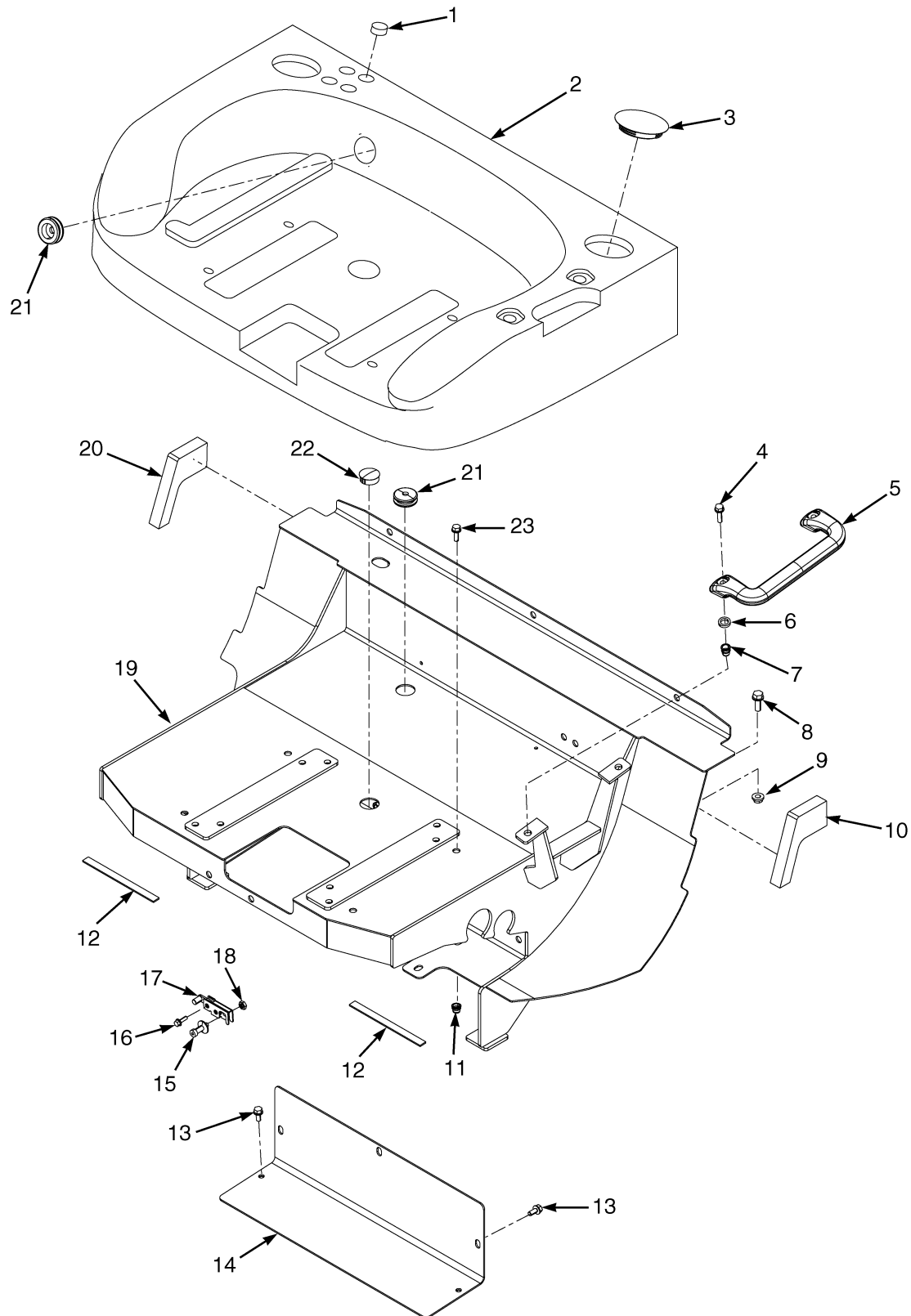


BP120386

INTERIOR PANELS AND COVERS**KEY:****A: Manual Hydraulics****B: Electronic Hydraulics**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2098330	Cover (Steering Column Upper)	1	1
2	2065666	Cover (Steering Column Lower)	1	1
3	2071261	Capscrew	5	5
4	2065667	Clip	8	8
5	1531001	Insert	5	5
6	2070726	Panel (Single Pedal)	1	1
6	2076204	Panel (Dual Pedal)	1	1
7	1641656	Cover Plate	1	..
7	1641657	Cover Plate	..	1
8	1641658	Seal	1	1
9	1646609	Seal	1	1
10	1573597	Dash Panel	1	..
10	1573598	Dash Panel	..	1
11	2070975	Cup Holder	1	1
12	2027655	Screw	2	2

SEAT PAN AND COVERS (FIGURE 1-3)



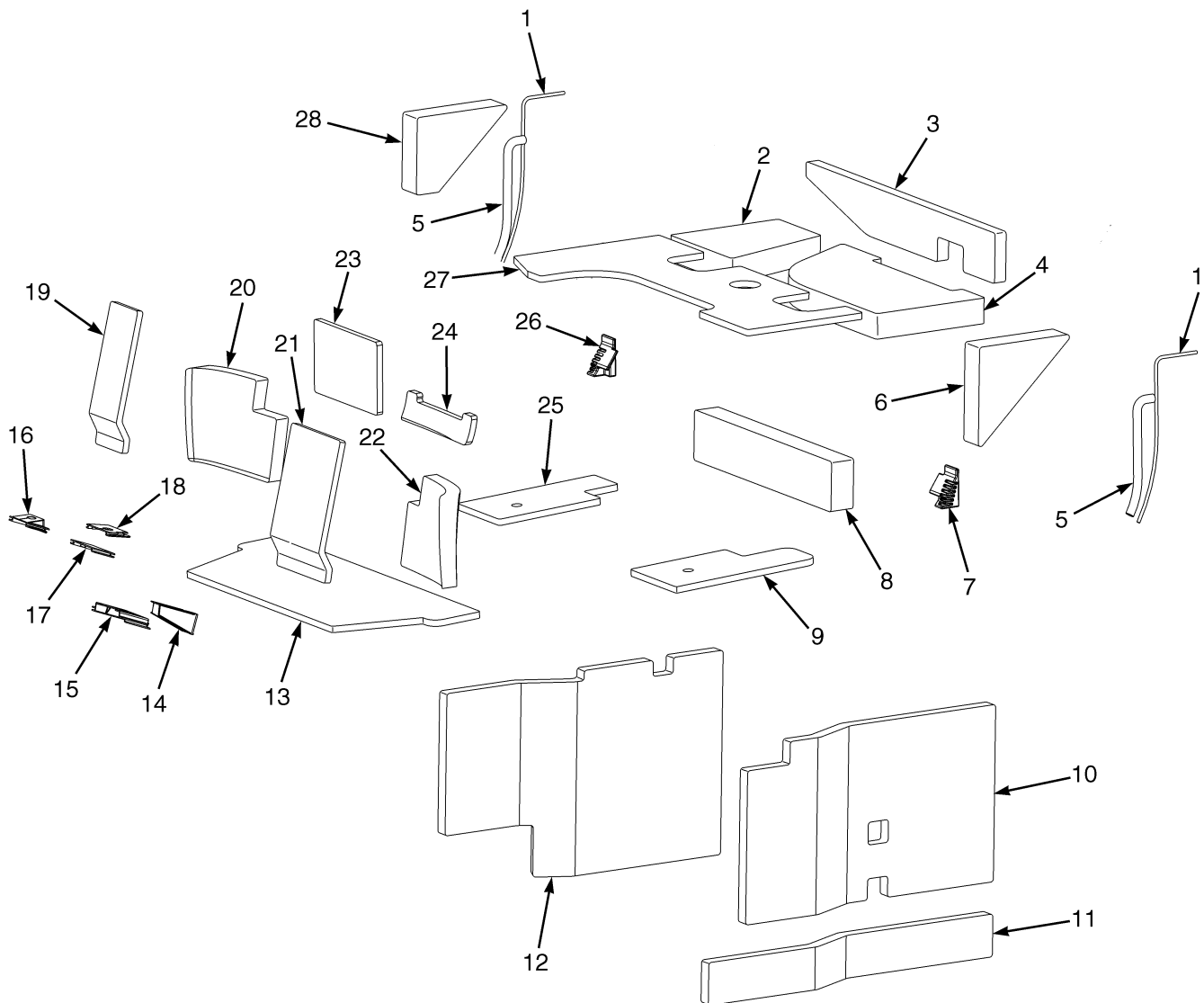
BP120318

SEAT PAN AND COVERS**KEY:****A: With Cab****B: Without Cab**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1660750	Insert	4	..
2	a 1649639	Cover (Seat Surround)	1	..
2	b 1649640	Cover (Seat Surround)	..	1
2	2098220	Plug	1	1
3	2021395	Cap	1	1
4	1586627	Capscrew	2	2
5	1536813	Handle (Grab)	1	1
6	1646509	Spacer	2	2
7	1530243	Insert	2	2
8	1605990	Capscrew	4	4
9	1586431	Nut	4	4
10	1615757	Seal (LH)	1	1
11	1531557	Insert	9	9
12	1597959	Seal	2	2
13	1608654	Capscrew	3	5
14	1646593	Cover	1	..
14	1647413	Cover	..	1
15	1608413	Striker Bolt	1	1
16	1527877	Capscrew	2	2
17	1608414	Latch	1	1
18	191534	Nut	1	1
19	1650191	Seat Pan	1	1
20	1615758	Seal (RH)	1	1
21	1561015	Grommet	2	2
22	c 1585592	Plug	2	2
22	d 1585592	Plug	1	1
23	1583611	Capscrew	20	20

FOOTNOTES:**a** With Cab**b** With Overhead Guard**c** With Swivel Seat**d** Without Swivel Seat

SOUND ABATEMENT (FIGURE 1-4) GASOLINE AND LPG



BP120539

**SOUND ABATEMENT
GASOLINE AND LPG**

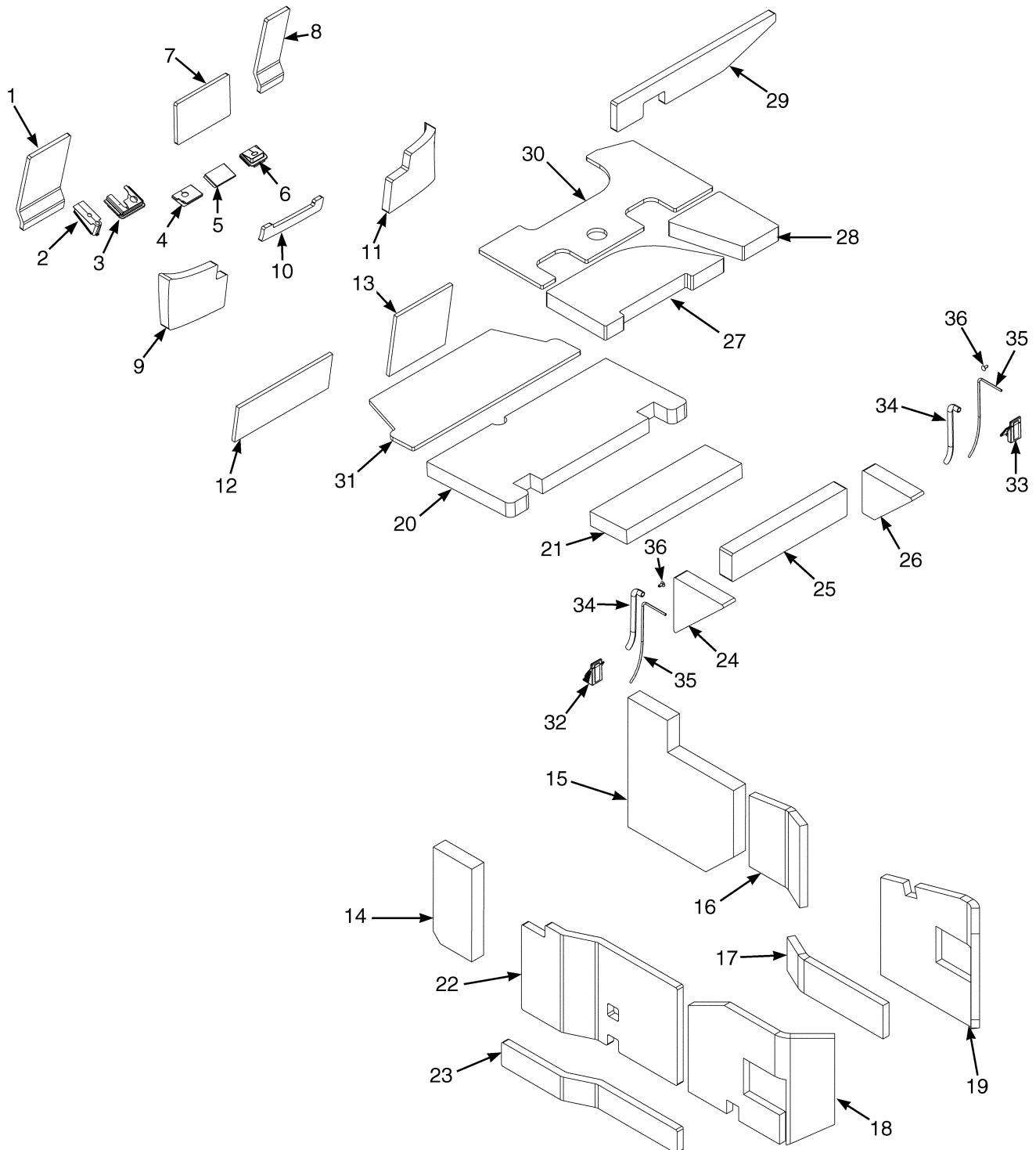
ITEM	PART NO.	DESCRIPTION	QTY
1	1670592	Seal	2
2	1651112	Sound Liner (Seat Support)	1
3	1651110	Sound Liner (Seat Support)	1
4	1651111	Sound Liner (Seat Support)	1
5	1670593	Seal	2
6	1651115	Sound Liner (Seat Support LH) (Seat Support LH)	1
7	2098416	Plug (LH)	1
8	1651113	Sound Liner	1
9	1651107	Sound Liner (Rear Floorplate)	1
10	1651104	Sound Liner (LH) (Frame)	1
11	1651105	Sound Liner (LH) (Frame)	1
12	1651106	Sound Liner (RH) (Frame)	1
13	1651109	Sound Liner (Front Floor Plate) (Front Floorplate)	1
14	2076134	Seal	1
15	2065797	Seal	1
16	c 2094680	Seal	1
17	c 2065826	Seal	1
18	c 2065827	Seal	1
19	1651405	Sound Liner (Cowl Plate) (Cowl Plate)	1
20	1617081	Sound Liner (Foam) (RH) (Dash)	1
21	1651404	Sound Liner (Cowl Plate) (Cowl Plate)	1
22	1617082	Sound Liner (Dash) (LH) (Dash)	1
23	1616484	Sound Liner	1
24	1616483	Sound Liner	1
25	1651108	Sound Liner (Rear Floorplate)	1
26	2098417	Plug (RH)	1
27	1651116	Sound Liner (Seat Pan)	1
28	1651114	Sound Liner (Seat Support RH) (Seat Support RH)	1
	ab 1698474	Sound Liner	2

FOOTNOTES:

- a** Inside Top of Module Plate
b Not Illustrated

- c** With Electronic Hydraulics

SOUND ABATEMENT (FIGURE 1-5) DIESEL



BP120540

**SOUND ABATEMENT
DIESEL****KEY:****A:** Cab**B:** Overhead Guard

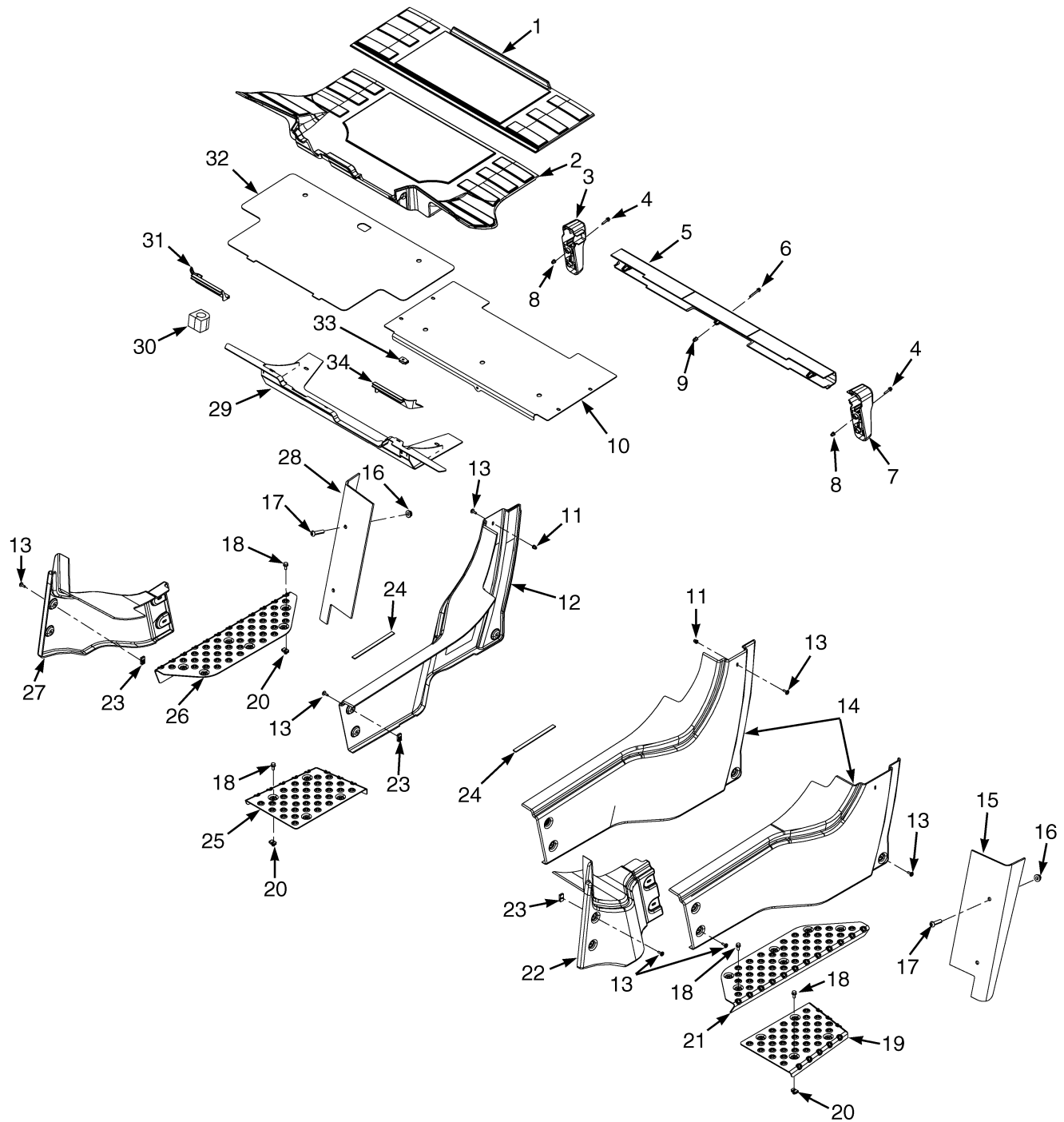
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1651404	Sound Liner (Cowl Plate)	1	1
2	cd 2076134	Seal	1	..
3	cd 2065797	Seal	1	..
4	c 2065827	Seal	1	..
5	c 2065826	Seal	1	..
6	c 2094680	Seal	1	..
7	1616484	Sound Liner	1	1
8	1651405	Sound Liner (Cowl Plate)	1	1
9	1617082	Sound Liner (Dash) (LH)	1	1
10	1616483	Sound Liner	1	1
11	1617081	Sound Liner (Foam) (RH)	1	1
12	1692279	Sound Liner (Frame Cowl)	1	1
13	1692265	Sound Liner (Frame Cowl)	1	1
14	1692263	Sound Liner (LH)	..	1
15	1692261	Sound Liner (RH)	..	1
16	1692431	Sound Liner (RH)	..	1
17	1692430	Sound Liner (RH)	..	1
18	1695810	Sound Liner (LH)	..	1
19	1698475	Sound Liner (RH)	..	1
20	1692277	Sound Liner (Rear Floor Plate)	..	1
21	1692278	Sound Liner (Cover Plate)	..	1
22	1651104	Sound Liner (LH) (Frame)	1	1
23	1651105	Sound Liner (LH) (Frame)	1	1
24	1651115	Sound Liner (Seat Support LH)	1	1
25	1651113	Sound Liner	1	1
26	1651114	Sound Liner (Seat Support RH)	1	1
27	1651111	Sound Liner	1	1
28	1651112	Sound Liner	1	1
29	1651110	Sound Liner	1	1
30	1651116	Sound Liner (Seat Pan)	1	1
31	1651109	Sound Liner (Front Floor Plate)	1	1
32	2098416	Plug (LH)	1	..
33	2098417	Plug (RH)	1	..
34	1670593	Seal	2	..
35	1670592	Seal	2	..
36	1307737	Fastener	2	..
	ab 1698474	Sound Liner	2	2

FOOTNOTES:

a Inside Top of Module Plate
b Not Illustrated

c With Electronic Hydraulics
d With Manual Hydraulics

FLOORPLATES AND COVERS (FIGURE 1-6)



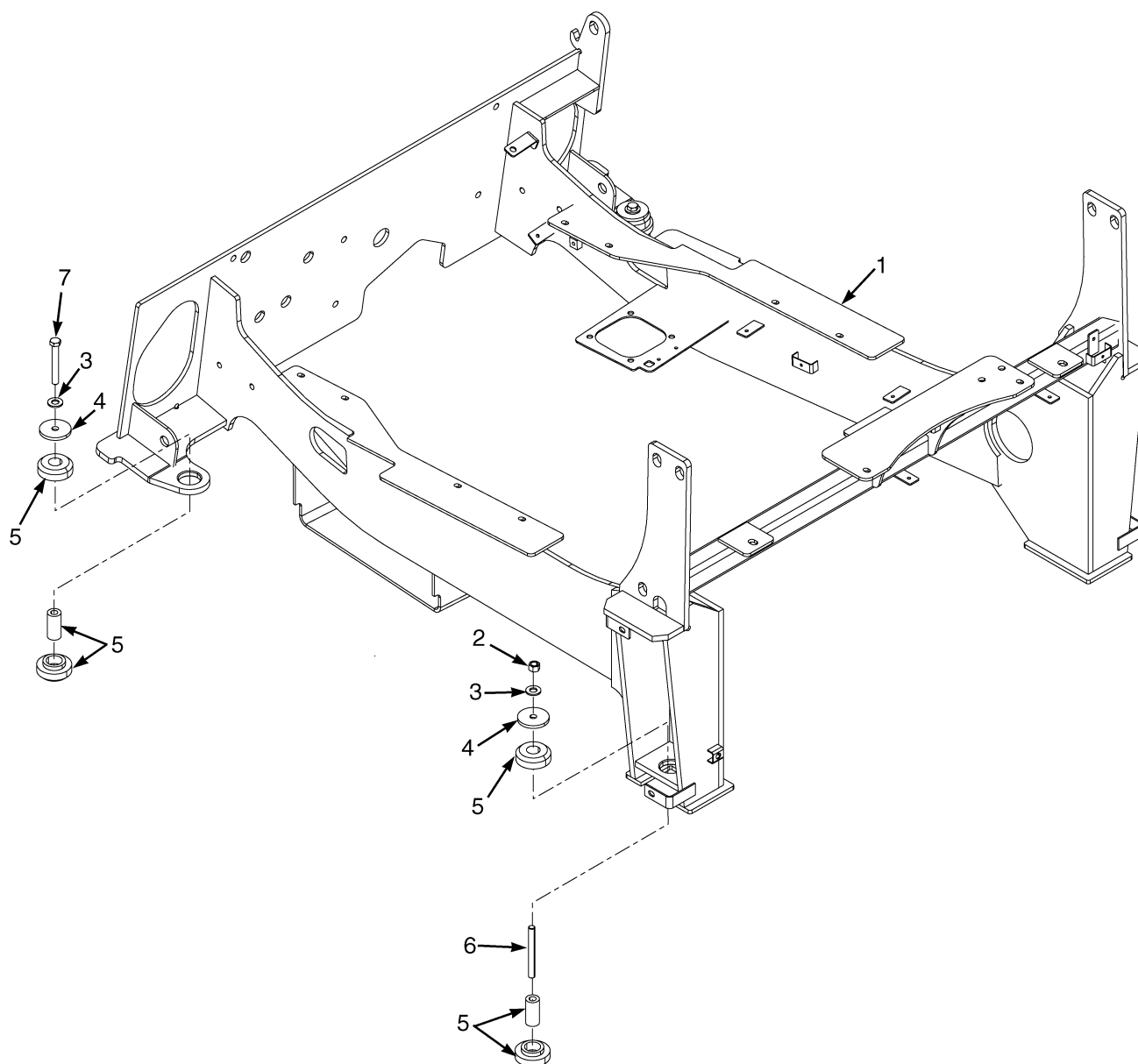
BP120321

FLOORPLATES AND COVERS**KEY:****A: Without Cab****B: With Cab**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2093343	Floormat (Rear)	1	1
2	2093342	Floormat (Front)	1	1
3	d 2056823	Tail Light Base (RH)	1	1
3	e 2107957	Tail Light Base (RH)	1	1
4	1586495	Capscrew	4	4
5	2067475	Cover (Rear Crossmember)	1	1
6	1540643	Capscrew	3	3
7	d 2056822	Tail Light Base (LH)	1	1
7	e 2107958	Tail Light Base (LH)	1	1
8	1531558	Insert	4	4
9	1531001	Insert	3	3
10	1659938	Floorplate (Rear)	1	1
11	1531558	Insert	2	2
12	a 1640867	Cover (RH) (Rear)	1	..
12	b 1640868	Cover (RH) (Rear)	1	..
12	a 1640877	Cover (RH) (Rear)	..	1
12	b 1640876	Cover (RH) (RH) (Rear)	..	1
13	1530019	Screw	12	12
14	1640874	Cover (LH) (Rear)	..	1
14	1640865	Cover (LH) (Rear)	1	1
15	c 1622865	Plate (LH)	1	1
16	c 1586432	Nut	4	4
17	c 2090693	Capscrew	4	4
18	1608654	Capscrew	10	10
19	1608671	Plate (Lower LH Tread)	1	1
20	1480237	Nut	23	33
21	1608667	Plate (Upper LH Tread)	1	1
22	1640870	Cover (Front LH)	..	1
23	325182	Nut	10	10
24	1597960	Seal	2	2
25	1608673	Plate (RH)	1	1
26	1608669	Plate (Upper RH Tread)	1	1
27	1640872	Cover (RH)	..	1
28	1622867	Plate (RH)	..	..
29	1607634	Floorplate	1	1
30	1530135	Grommet	1	1
31	2092324	Seal (RH)	1	1
32	1608204	Floorplate	1	1
33	1393879	Nut	8	8
34	2092323	Seal (LH)	1	1

FOOTNOTES:**a** GM 4.3L Gasoline and Cummins 3.3L Diesel**b** GM 4.3L LPG**c** → S/N J006V02047G**d** → S/N J006V02094G**e** S/N J006V02095G →

COMPARTMENT PLATFORM (FIGURE 1-7)

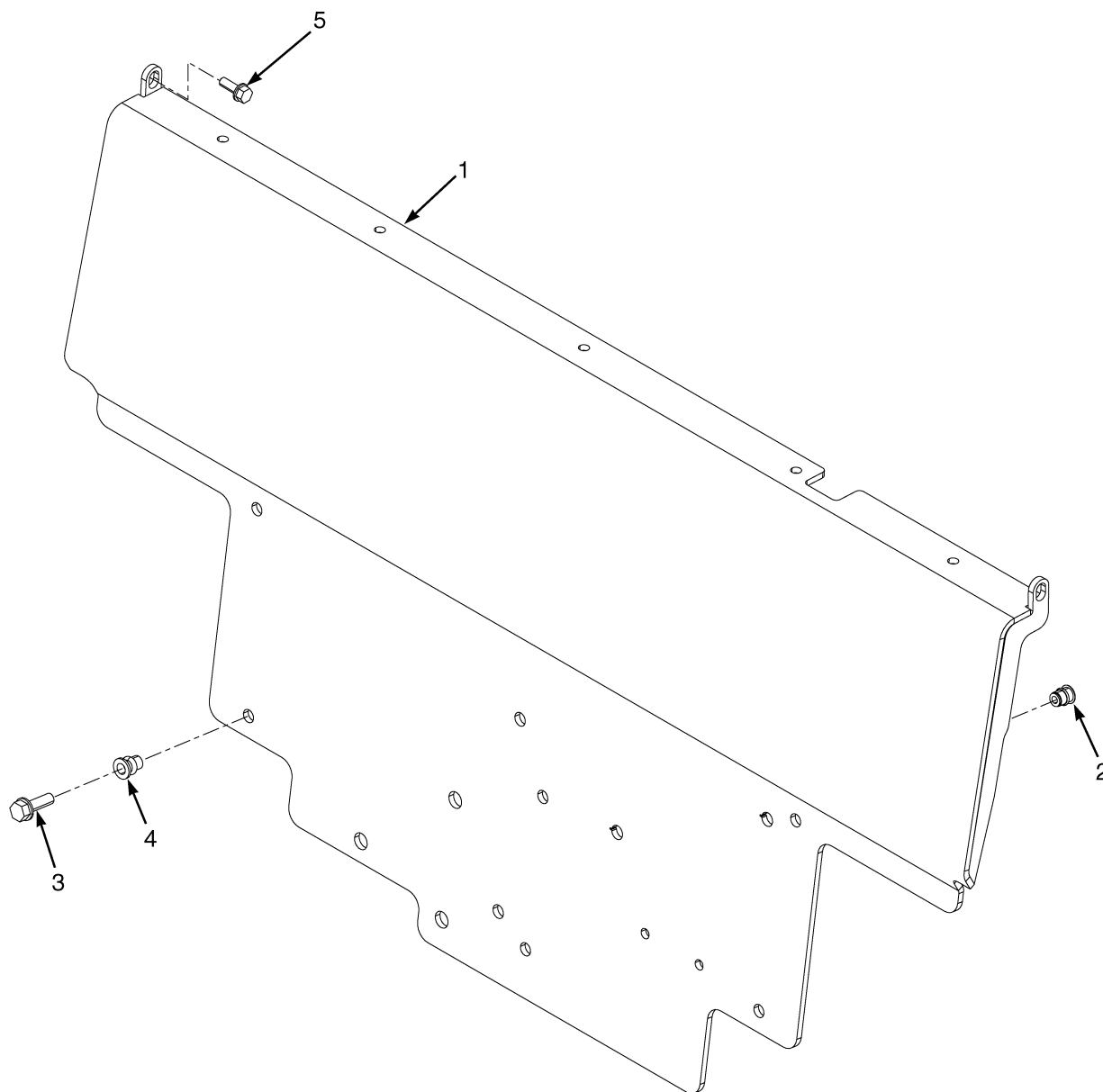


BP120335

COMPARTMENT PLATFORM

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1614903	Module	1
1	b 1708799	Operator Module	1
2	300937	Nut	2
3	296423	Washer	4
4	300939	Washer	4
5	1660337	Isolator	4
6	2037998	Stud	2
7	293657	Capscrew	2

FOOTNOTES:**a** → PENDING PER ECN 105594**b** PENDING PER ECN 105594 →

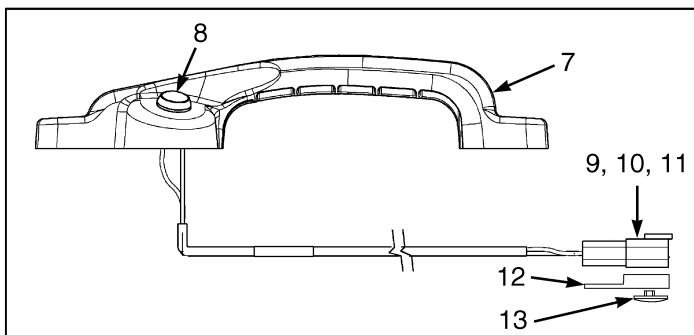
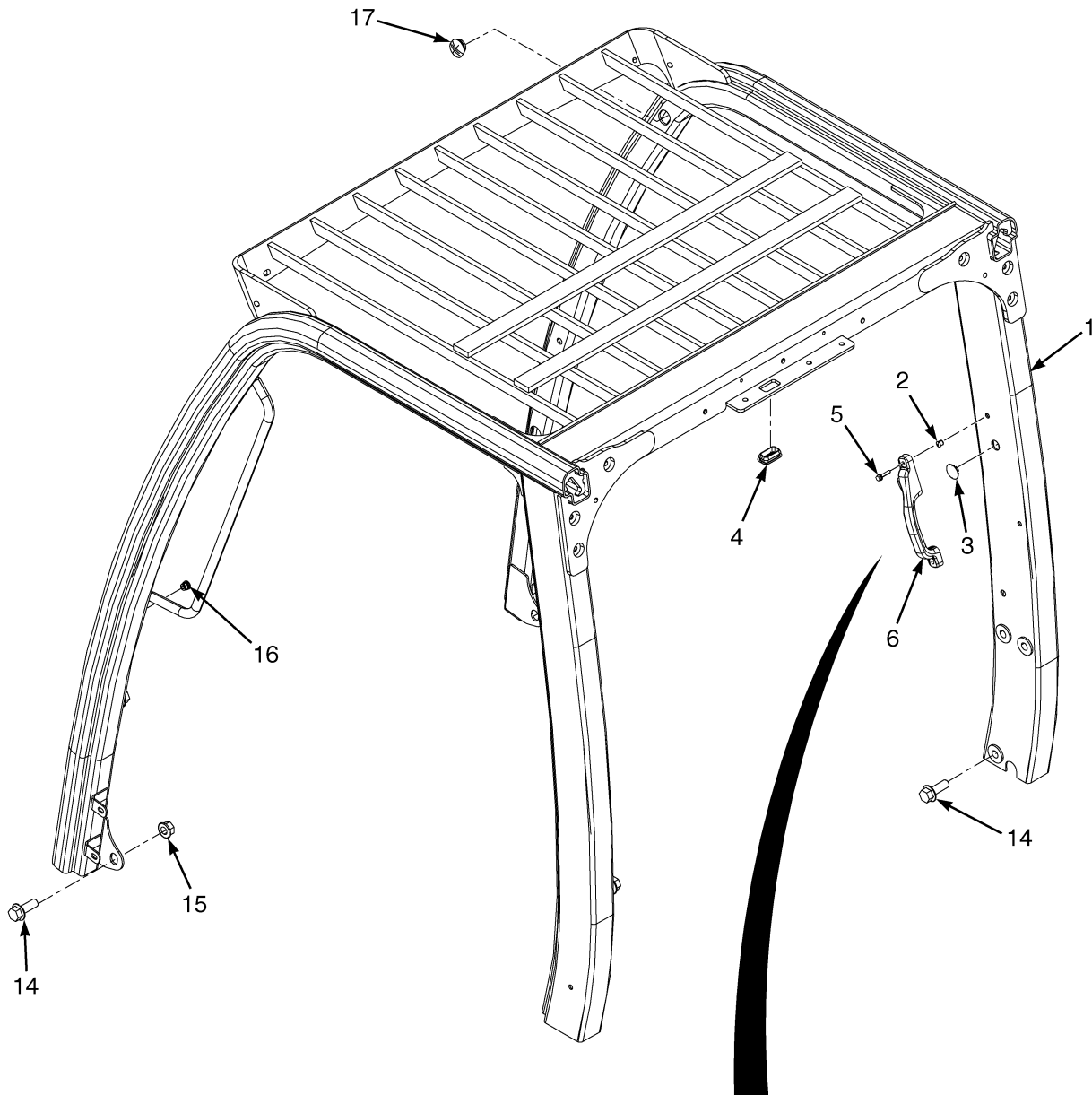
COWL MOUNT (FIGURE 1-8)

BP120323

COWL MOUNT

ITEM	PART NO.	DESCRIPTION	QTY
1	1686718	Cowl	1
2	1530243	Insert	2
3	1586629	Capscrew	6
4	1640776	Insert	6
5	1583611	Capscrew	2

OVERHEAD GUARD (FIGURE 1-9)



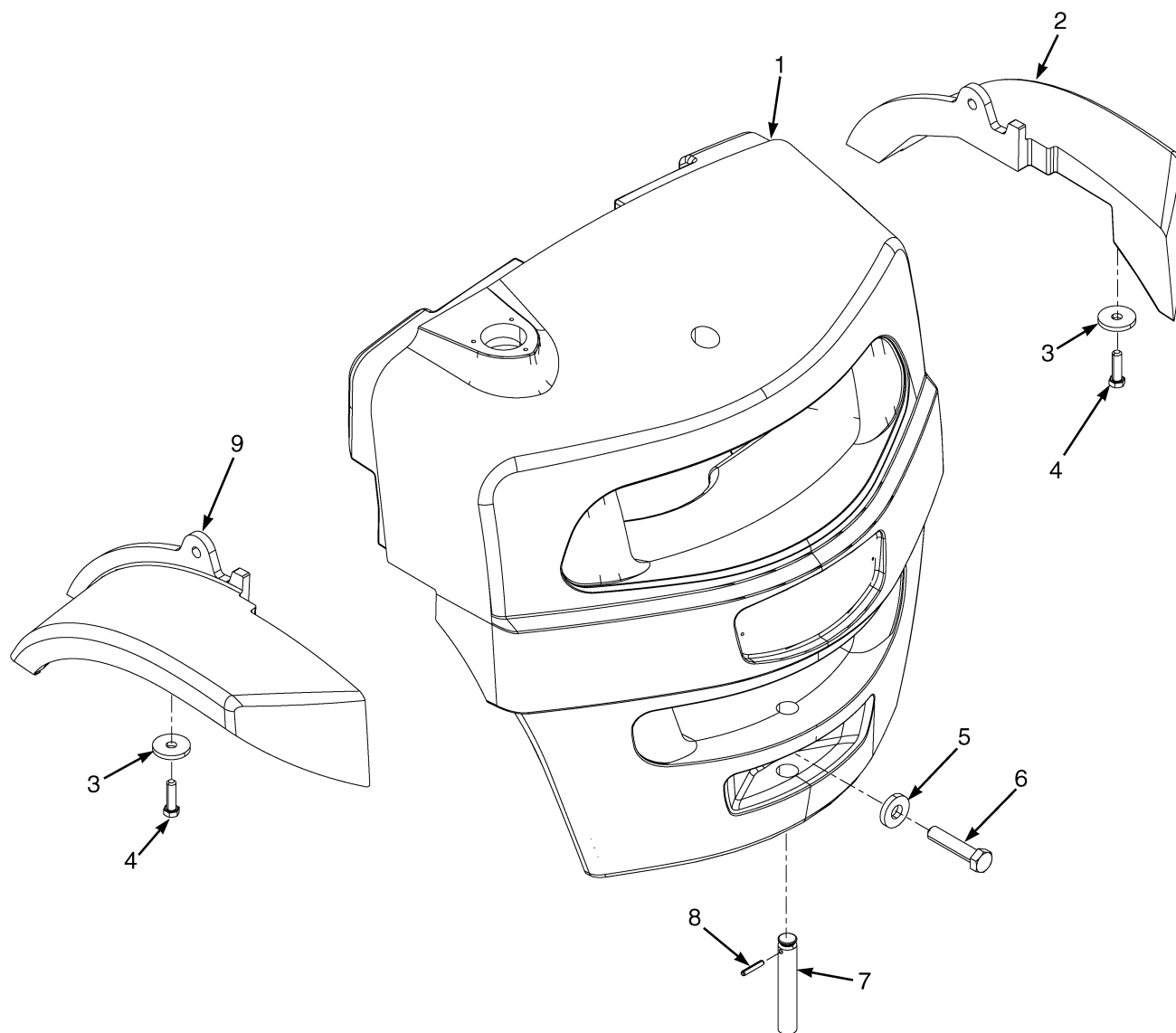
BP120357

OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	1659541	Overhead Guard	1
2	1494888	Plug	4
3	1599415	Plug	1
4	1560671	Grommet	1
5	b 1586495	Capscrew	2
6	b 2070223	Handle Assembly (Alternate Horn Button)	1
7	2069454	Handle	1
8	1566726	Push Button Switch	1
9	1493465	Connector	1
10	1330414	Connector (Secondary Lock)	1
11	1330437	Terminal (Pin)	2
12	b 1500912	Clip	1
13	b 1582464	Fastener	1
14	1597479	Capscrew	10
15	1586436	Nut	2
16	1531557	Insert	2
17	1558219	Grommet	2
	a 1661321	Grommet	1

FOOTNOTES:**a** Not Illustrated**b** Optional

COUNTERWEIGHTS AND FENDERS (FIGURE 1-10)

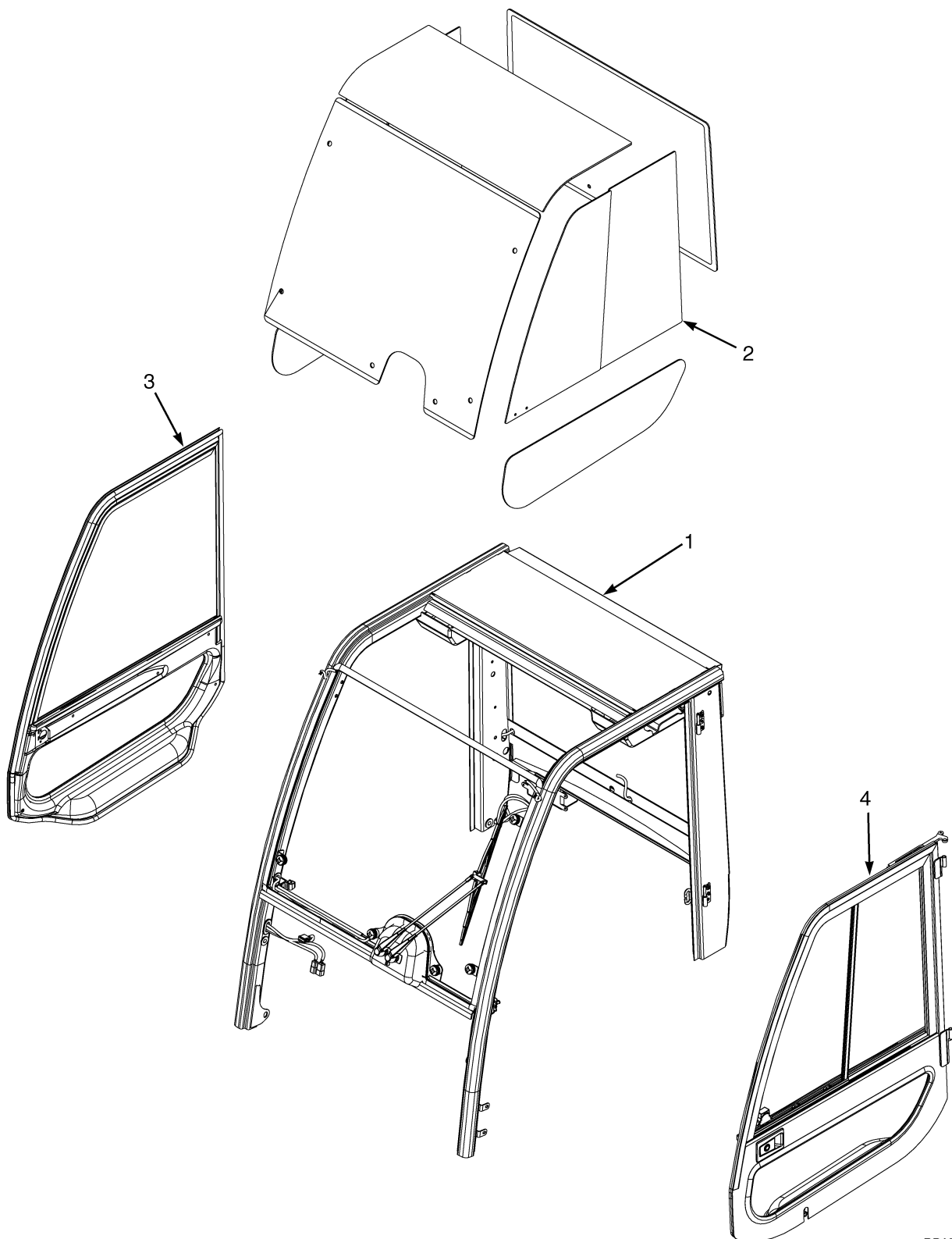


BP120314

COUNTERWEIGHTS AND FENDERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1609046	Counterweight (H135FT)	1
1	1609047	Counterweight (H155FT)	1
2	1609049	Fender (RH)	1
3	1301086	Washer	4
4	292586	Capscrew	4
5	1571610	Washer	1
6	292629	Capscrew	1
7	1637881	Tow Pin	1
8	302492	Roll Pin	1
9	1609048	Fender (LH)	1

CAB (FIGURE 1-11) MAIN ASSEMBLY

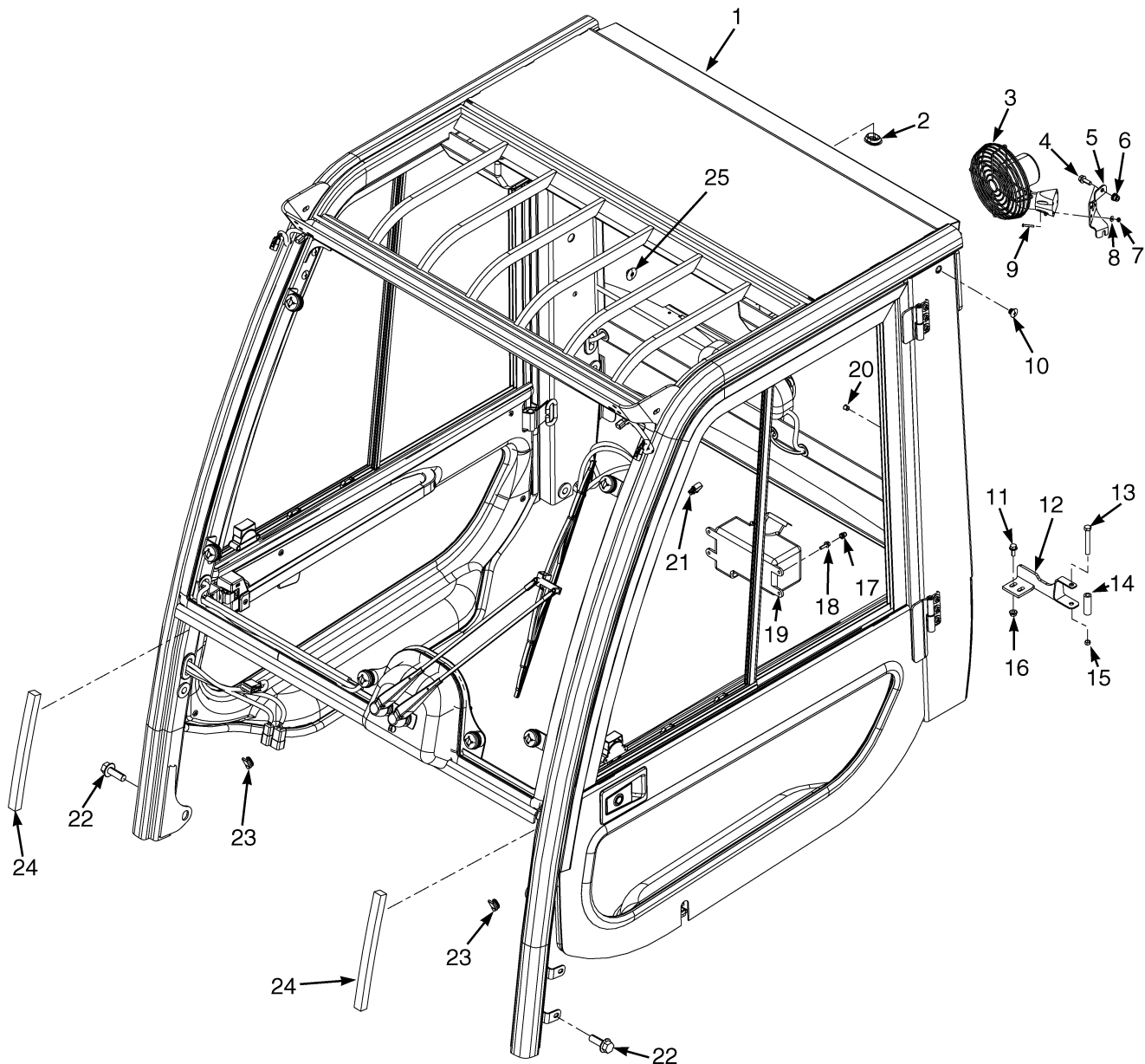


BP120332

**CAB
MAIN ASSEMBLY**

ITEM	PART NO.	DESCRIPTION	QTY
1	1673586	Cab (☞ Figure 1-12, ☞ Figure 1-13, ☞ Figure 1-15).....	1
2		Cab Glass	1
3	1656067	Door (LH) (☞ Figure 1-16).....	1
4	1656081	Door (RH) (☞ Figure 1-17).....	1

CAB (FIGURE 1-12) ATTACHING PARTS — SHEET 1 OF 2

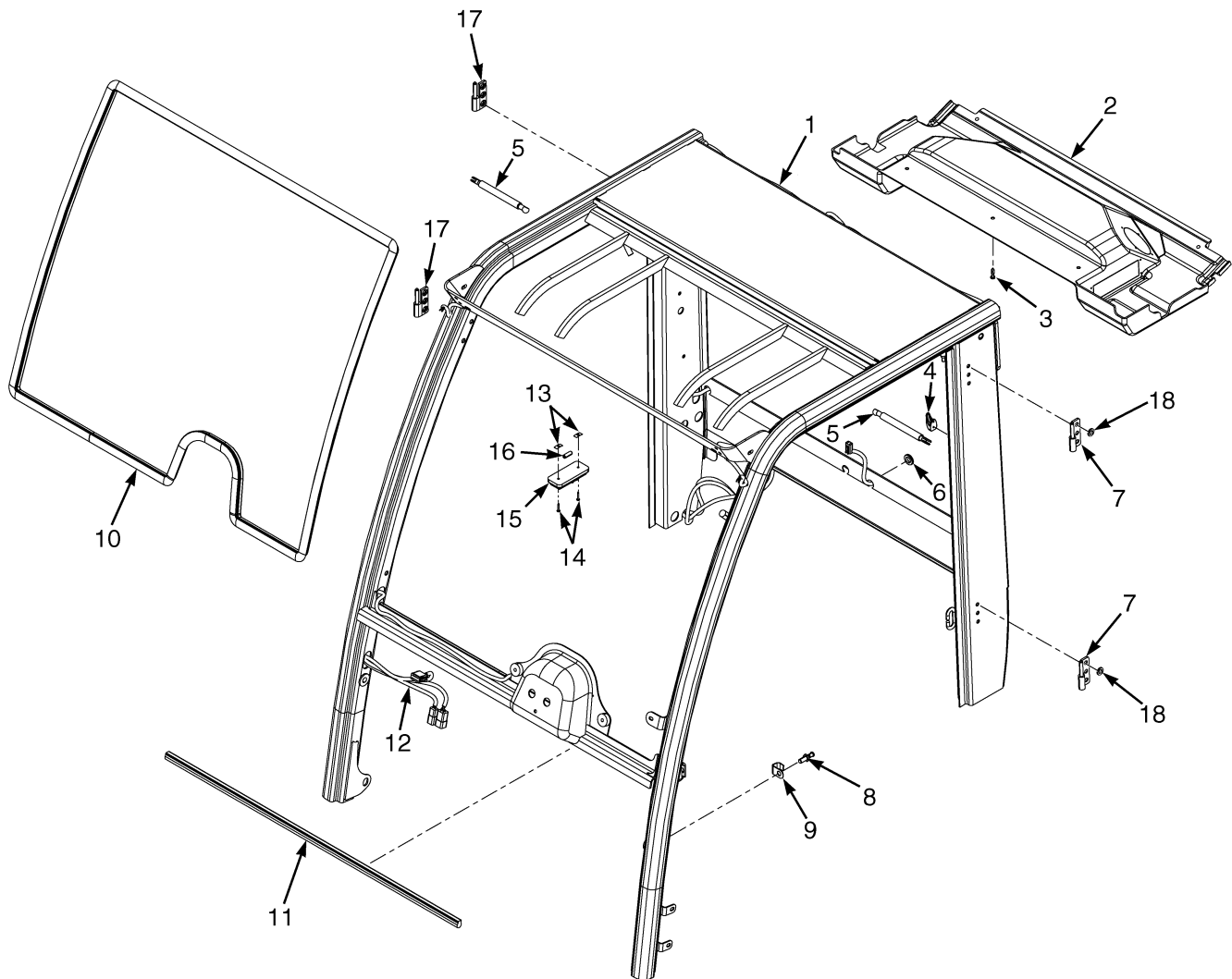


BP120330

CAB
ATTACHING PARTS – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1673586	Cab (With Steel Doors)	1
2	2070996	Grommet	1
3	1359562	Fan Assembly	1
4	1583611	Capscrew	2
5	1613734	Bracket	1
6	1531557	Insert	2
7	1463912	Nut	1
8	292678	Lockwasher	4
9	1565125	Screw	4
10	1574301	Plug	8
11	1527880	Capscrew	4
12	1668633	Striker	2
13	1669114	Bolt	2
14	1650145	Hose Assy	2
15	1581739	Nut	2
16	1502543	Nut (Flange)	4
17	1531558	Insert	4
18	1527877	Capscrew	4
19	1646922	Reservoir (Window Washer Assembly)	1
19	1635026	Cap	1
19	1705156	Pump (Windshield Washer, 12V)	1
20	1494888	Plug	4
21	1534329	Clip	1
22	226458	Capscrew	10
23	1589787	Seal	2
24	1650568	Seal	2
25	1599415	Plug	1

CAB (FIGURE 1-13) ATTACHING PARTS — SHEET 2 OF 2



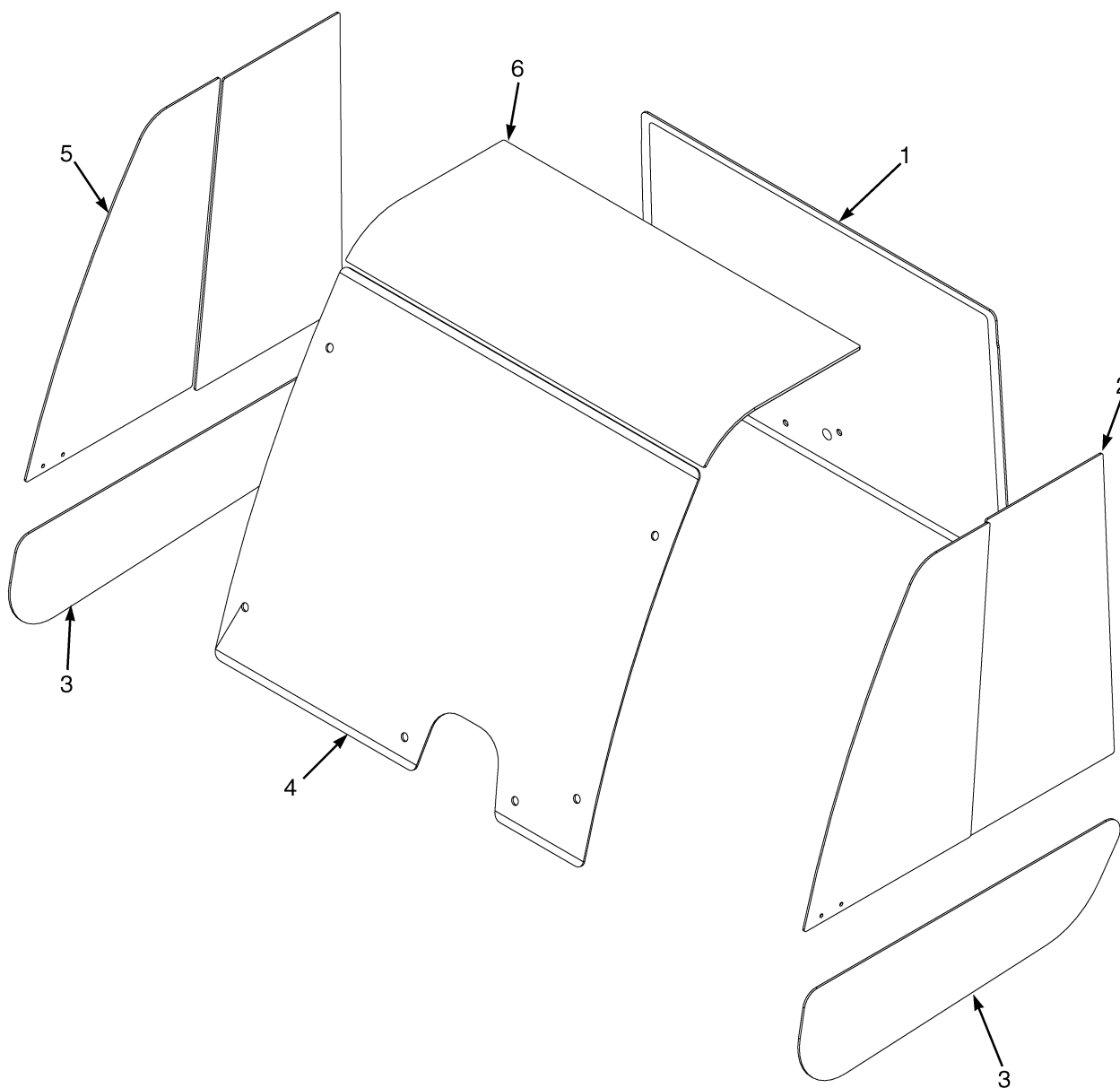
BP120338

CAB
ATTACHING PARTS – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	1673586	Cab	1
1		Cab Frame	1
2	1656012	Headliner	1
3	1474710	Insert	5
4	1647423	Coat Hook	1
5	1656013	Gas Spring	2
6	1393511	Grommet	3
7	1474953	Hinge (RH)	2
8	1656010	Bolt	2
9	1678405	Striker	2
10	1656015	Seal	1
11	1647439	Seal (Front Cowl)	1
12	1647440	Wire Harness (Cab)	1
13	1491466	Fastener	2
14	1491220	Screw	2
15	1393528	Dome Light	1
16	1393527	Bulb	1
17	1474952	Hinge (LH)	2
18	296419	Washer	12
	a 1474709	Block	1

FOOTNOTES:**a** Not Illustrated

CAB (FIGURE 1-14) WINDOWS

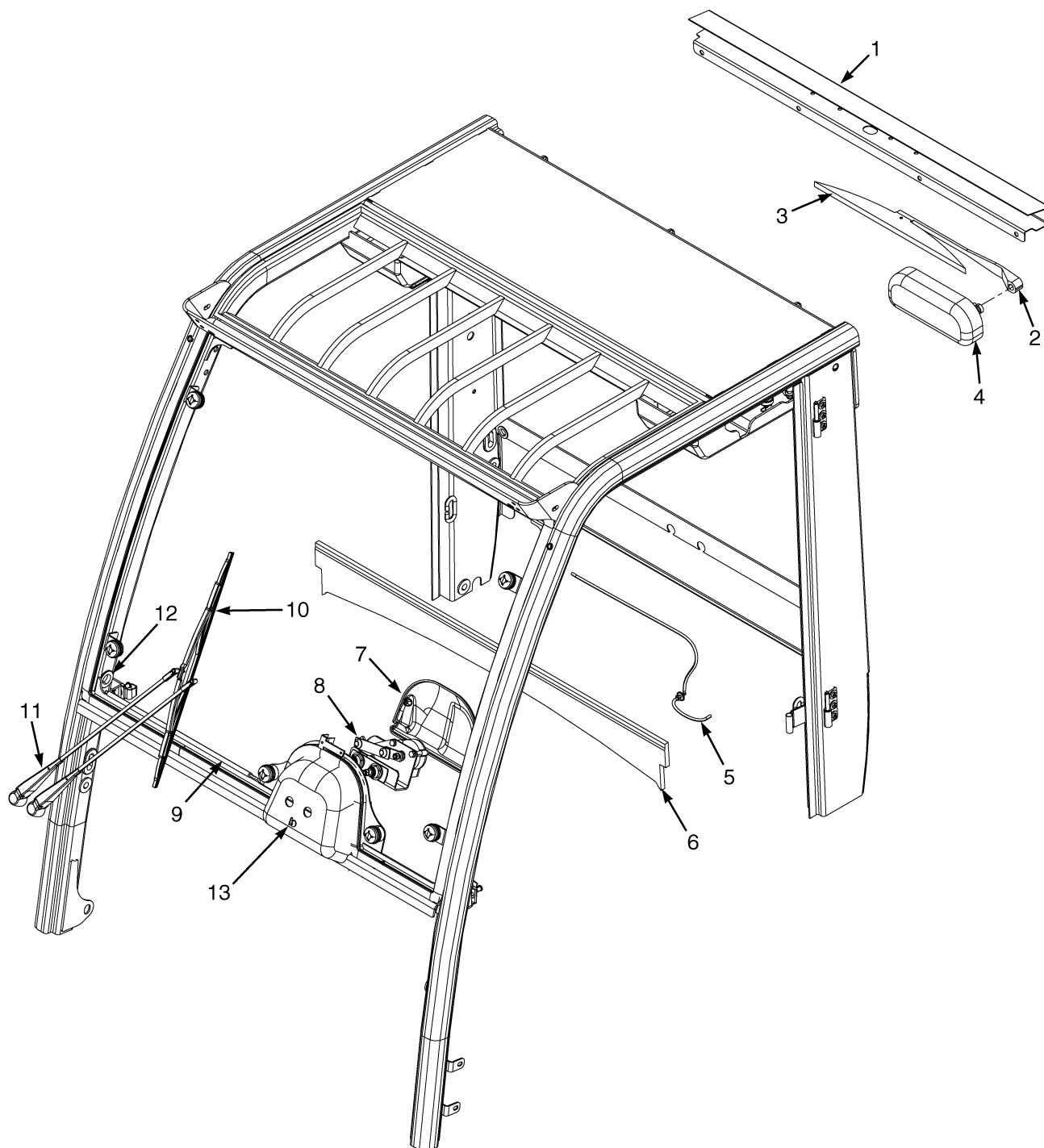


BP120333

**CAB
WINDOWS**

ITEM	PART NO.	DESCRIPTION	QTY
1	1656093	Window (Rear)	1
2	1656089	Sliding Window (LH Slider)	1
2	1697679	Latch (LH)	1
2	4001171	Strip (Slider) (Aluminum)	1
2	4001172	Screw	2
2	4017129	Strip (Slider) (Plastic)	1
3	1656090	Window (Lower Door)	2
4	1698685	Front Window	1
5	1656091	Sliding Window (RH Slider)	1
5	1697680	Latch (RH)	1
5	4001171	Strip (Slider) (Aluminum)	1
5	4001172	Screw	2
5	4017129	Strip (Slider) (Plastic)	1
6	1647522	Window (Top)	1
6	1676205	Foam Lining (Top Window)	1
	1504083	Kit-Glue	1
	1502771	Activator	1
	1502772	Adhesive	1

CAB (FIGURE 1-15) WINDOW WIPER SYSTEM



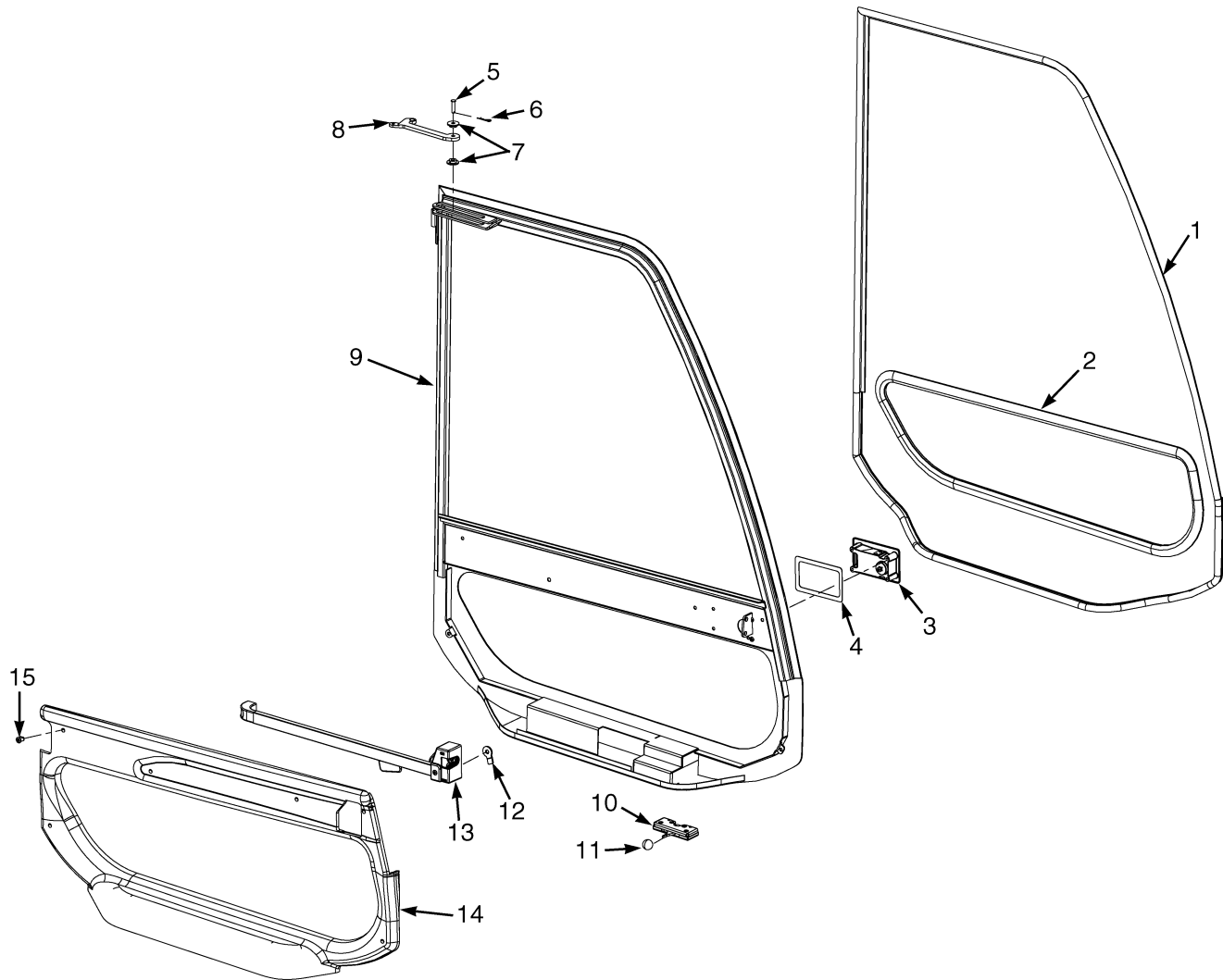
BP120334

CAB
WINDOW WIPER SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
	1673586	Cab	1
1	1656007	Cover (Tail Light)	1
2	1393505	Wiper Arm (Rear)	1
3	1656017	Wiper Blade (Rear)	1
4	1656008	Wiper Motor (Rear)	1
5	1656016	Hose	1
6	1656011	Trim (Rear)	1
7	1647422	Cover (Front Wiper)	1
8	1623368	Wiper Motor (Front)	1
9	1656014	Trim (Front Window)	1
10	1393494	Wiper Blade (Front)	1
11	1623369	Wiper Arm (Front)	1
12	1474704	Grommet	1
13	1647424	Connector	2
	a 1647446	Connector (washer hose)	1

FOOTNOTES:**a** Not Illustrated

CAB (FIGURE 1-16) LEFT HAND DOOR ASSEMBLY



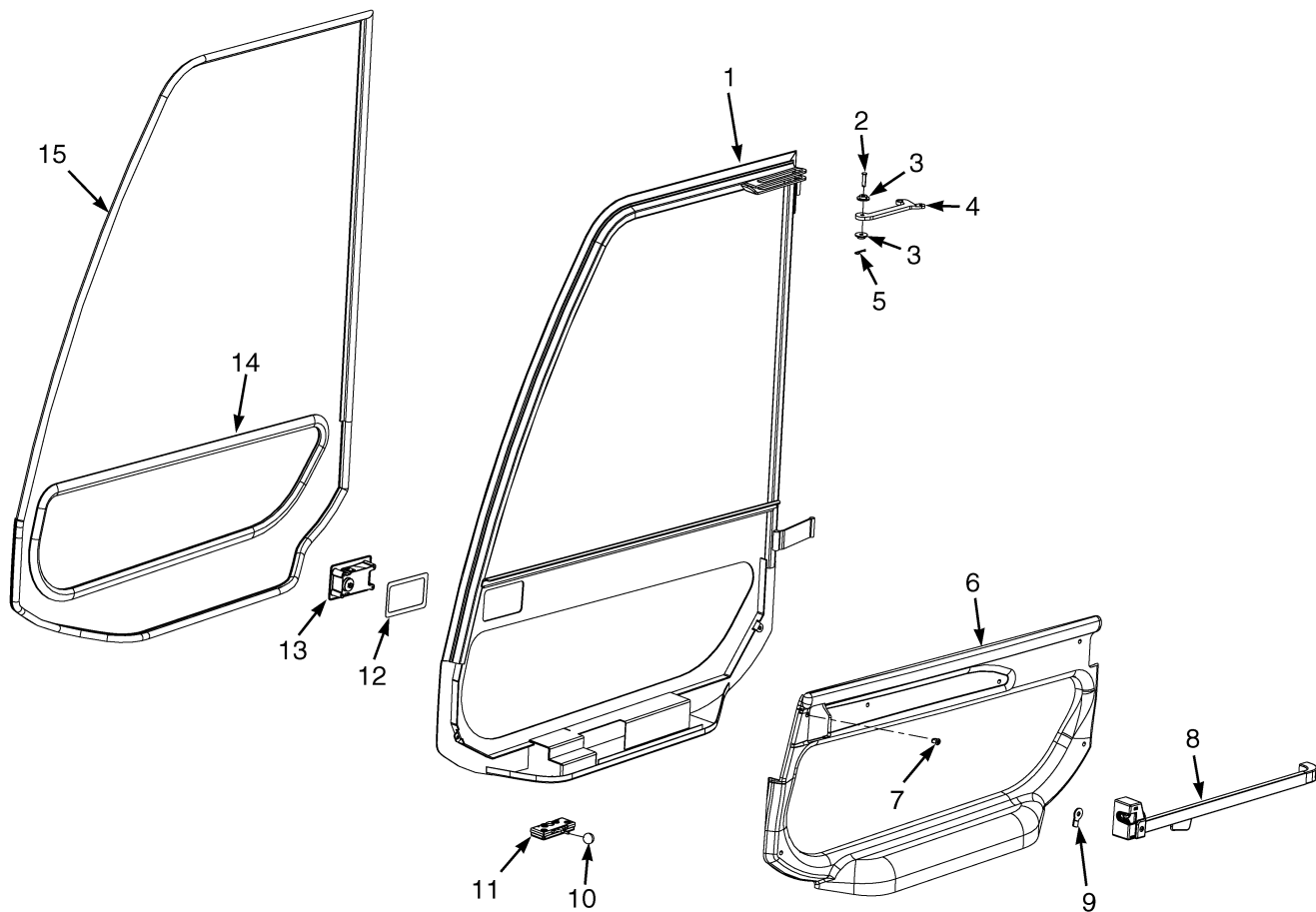
BP120336

CAB
LEFT HAND DOOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1656067	Door (LH)	1
1	1656070	Seal	1
2	1656071	Seal	1
3	1647451	Latch (Door)	1
4	1647452	Seal (Door Latch)	1
5		Pin	1
6		Cotter Pin	1
7	1688654	Bushing	1
8	1656074	Link	1
9		Door (LH)	1
10	1656068	Latch Door Stop	1
11	1656069	Knob	1
12	1647453	Lever (LH Door)	1
13	1393479	Door Handle	1
14	1656072	Panel	1
15	1656073	Plug	5
	a 1474710	Insert	1
	a 296229	Capscrew	2
	a 1688655	Strap (Door Restraint)	1
	a 1474709	Block	1
	a 1490966	Screw	1
	a 1689908	Door Key	1

FOOTNOTES:**a** Not Illustrated

CAB (FIGURE 1-17) RIGHT HAND DOOR ASSEMBLY



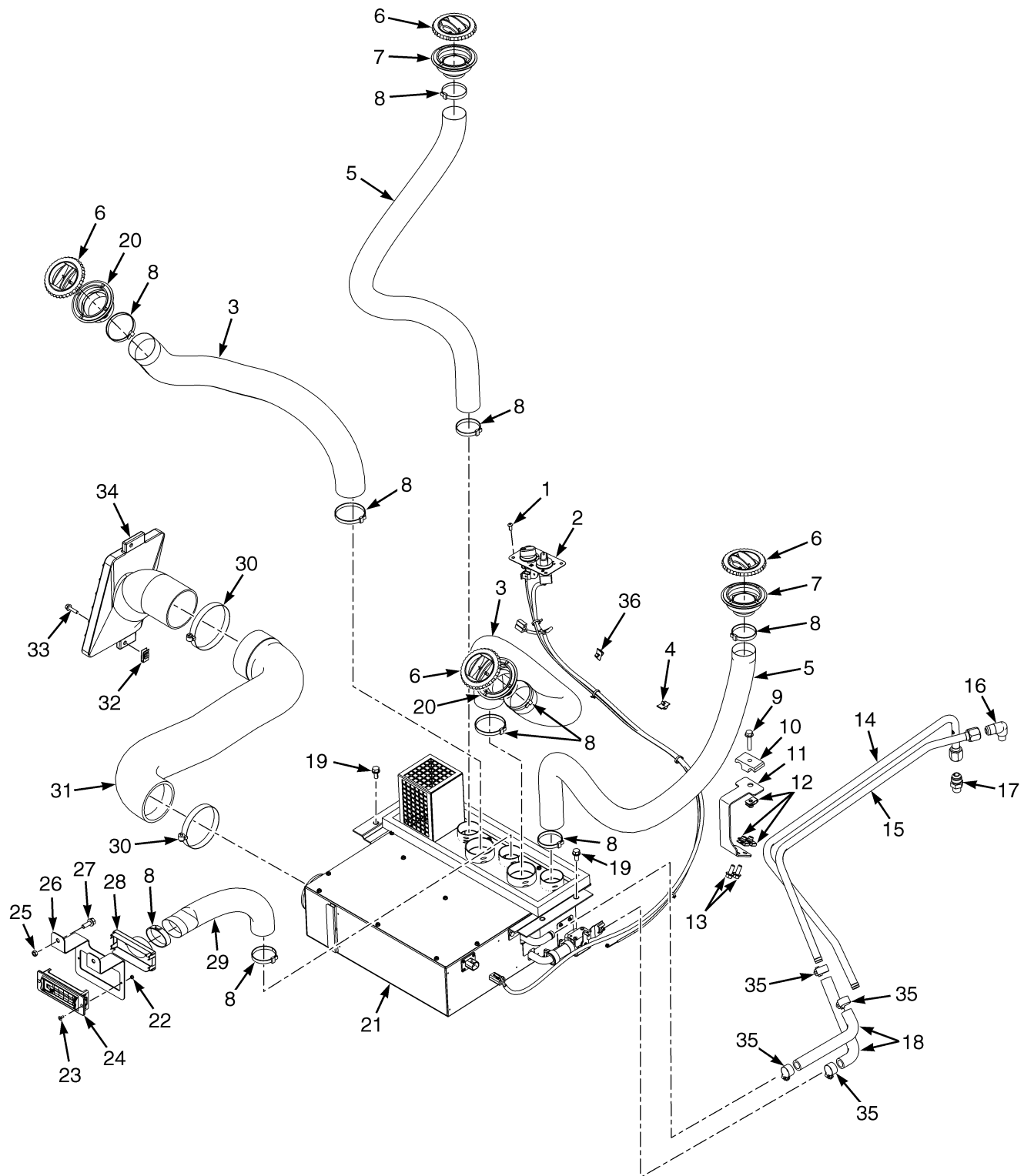
BP120337

CAB
RIGHT HAND DOOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1656081	Door (RH)	1
1		Door (RH)	1
2		Pin	1
3	1688654	Bushing	1
4	1656085	Link	1
5		Cotter Pin	1
6	1656083	Panel (RH)	1
7	1656073	Plug	5
8	1393482	Door Handle	1
9	1647453	Lever (LH Door)	1
10	1656069	Knob	1
11	1474709	Block	2
12	1647452	Seal (Door Latch)	1
13	1647451	Latch (Door)	1
14	1656071	Seal	1
15	1656084	Seal	1
	a 1474710	Insert	1
	a 296229	Capscrew	2
	a 1490966	Screw	1
	a 1688655	Strap (Door Restraint)	1
	a 1474709	Block	2
	a 1689908	Door Key	1

FOOTNOTES:**a** Not Illustrated

CAB (FIGURE 1-18) HEATER AND HOSES — CUMMINS QSB 3.3L DIESEL

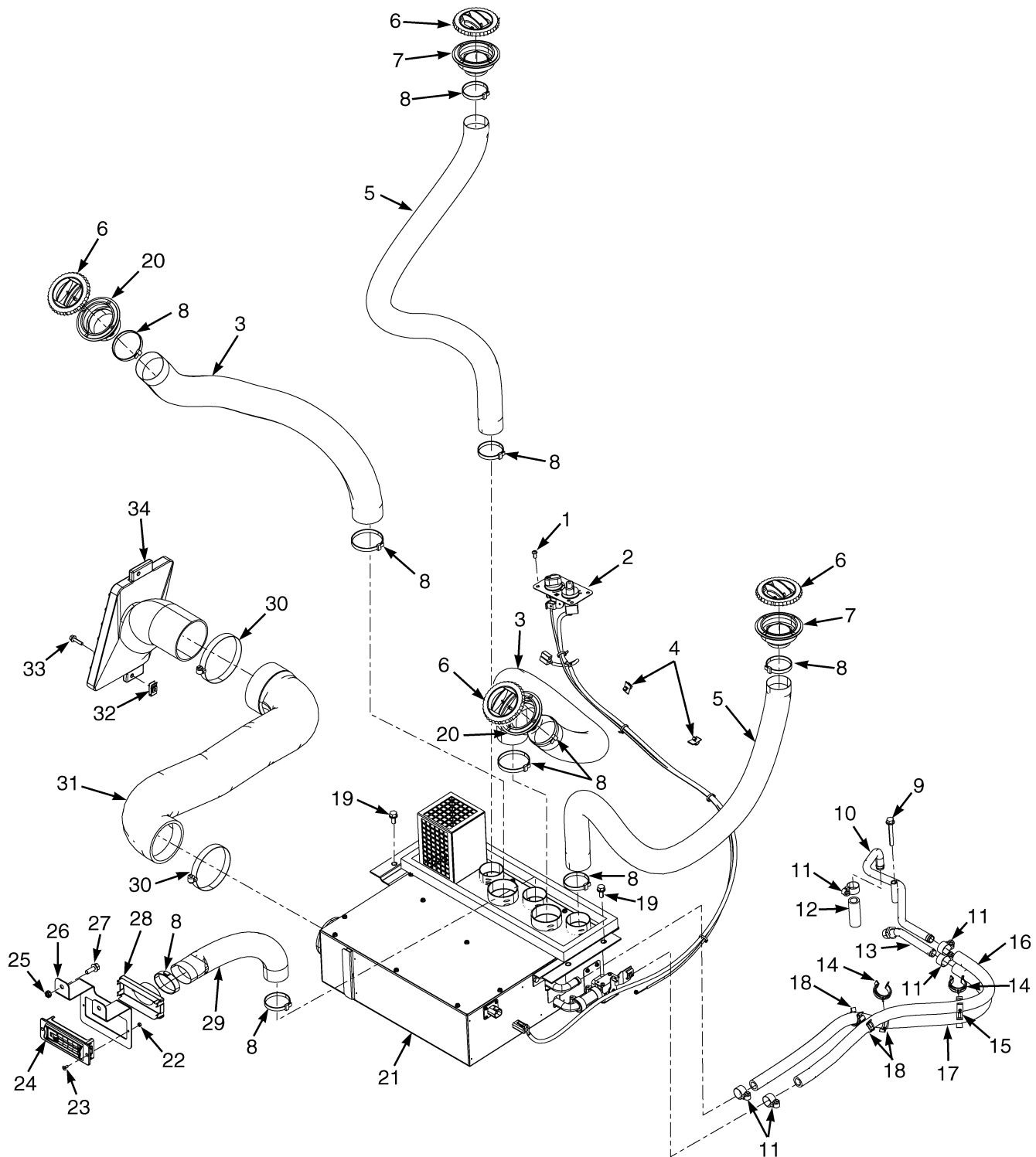


HP121217

CAB
HEATER AND HOSES – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1463910	Capscrew	4
2	1677808	Heater Control (☞Figure 1-21).....	1
3	1640513	Hose	2
4	1562088	Clip	2
5	1640778	Hose	2
6	1636241	Louver	4
7	1636242	Adapter	2
8	397676	Strap Clamp	10
9	1510114	Capscrew	1
10	1605479	Hose Clamp (Dual Hose)	1
11	1678514	Bracket	1
12	1480237	Nut	3
13	1527880	Capscrew	2
14	2101948	Tube Assy (Heater Out)	1
15	2101947	Tube Assy (Heater In)	1
16	17536	Fitting	1
17	16396	Fitting	1
18	2101971	Hose	2
19	1608654	Capscrew	4
20	1636243	Adapter	2
21	1629280	Heater (12V) (☞Figure 1-20).....	1
22	292667	Nut	2
23	296452	Screw	2
24	1636244	Vent	1
25	1531557	Insert	2
26	1640770	Bracket	1
27	1583611	Capscrew	2
28	1641103	Adapter (Rectangular)	1
29	1636510	Hose Assy	1
30	78286	Clamp	2
31	2092448	Hose	1
32	325182	Nut	2
33	1527878	Capscrew	2
34	1688026	Guard	1
35	130845	Clamp	4

CAB (FIGURE 1-19) HEATER AND HOSES — GM 4.3L GASOLINE AND LPG



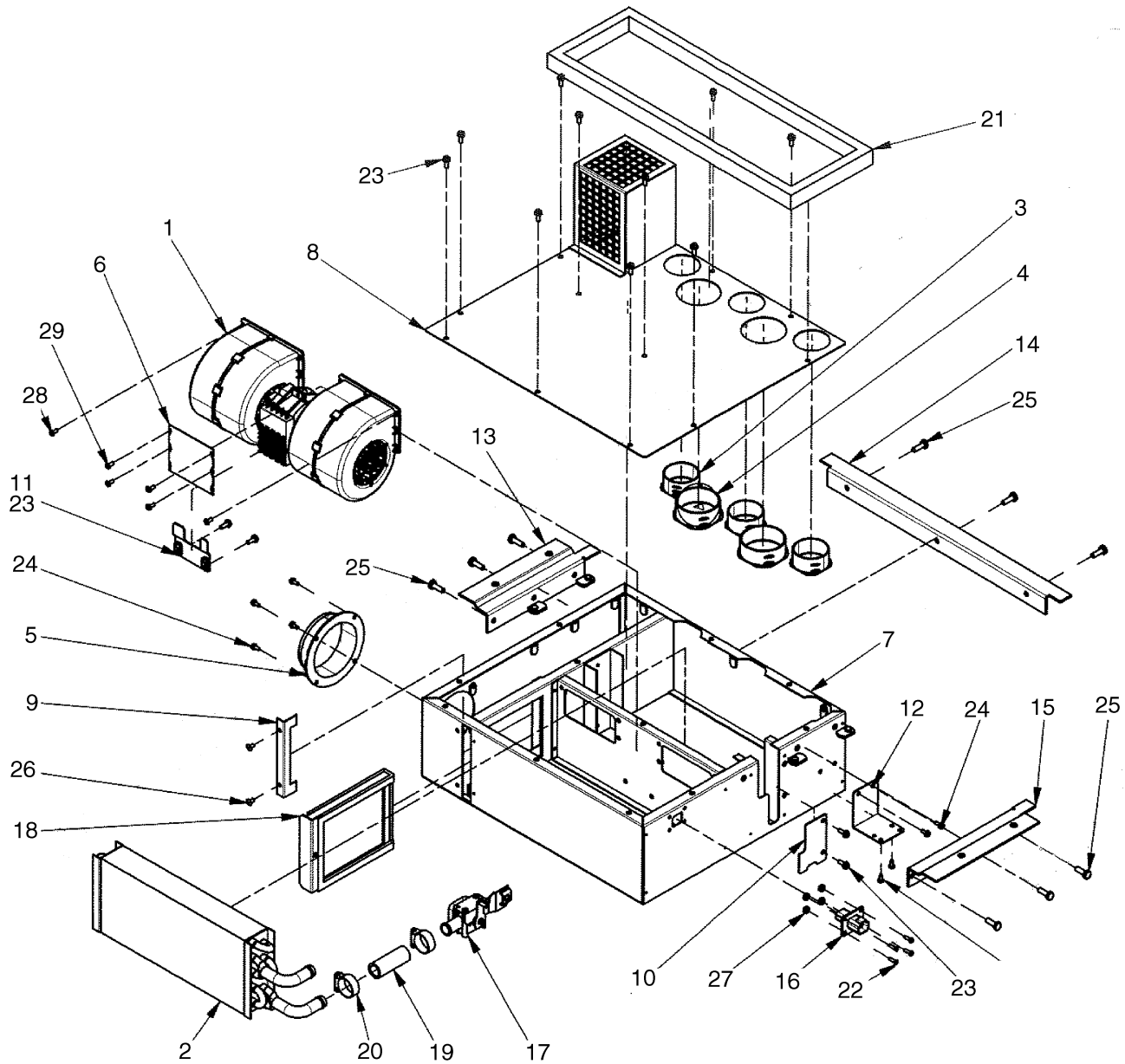
BP120339

CAB
HEATER AND HOSES – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1463910	Capscrew	4
2	1677808	Heater Control (☞Figure 1-21).....	1
3	1640513	Hose (Front)	2
4	1562088	Clip	2
5	1640778	Hose (Rear)	2
6	1636241	Louver	4
7	1636242	Adapter	2
8	397676	Strap Clamp	10
9	a 1510116	Capscrew	1
10	a 1564804	Tube	1
11	a 130845	Clamp	5
11	b 130845	Clamp	4
12	a 158269	Hose	1
13	a 1570597	Tube	1
14	1561759	Clamp (Swivel)	2
15	1612617	Clamp	1
16	2092717	Hose	1
17	2092718	Hose	1
18	1569465	Clamp	4
19	1608654	Capscrew	4
20	1636243	Adapter	2
21	1629280	Heater (12V) (☞Figure 1-20).....	1
22	292667	Nut	2
23	296452	Screw	2
24	1636244	Vent	1
25	1531557	Insert	2
26	1640770	Bracket	1
27	1583611	Capscrew	2
28	1641103	Adapter (Rectangular)	1
29	1636510	Hose Assy	1
30	78286	Clamp	2
31	2092448	Hose	1
32	325182	Nut	2
33	1527878	Capscrew	2
34	1644840	Vent	1

FOOTNOTES:**a** GM 4.3L Gasoline**b** GM 4.3L LPG

HEATER (FIGURE 1-20)

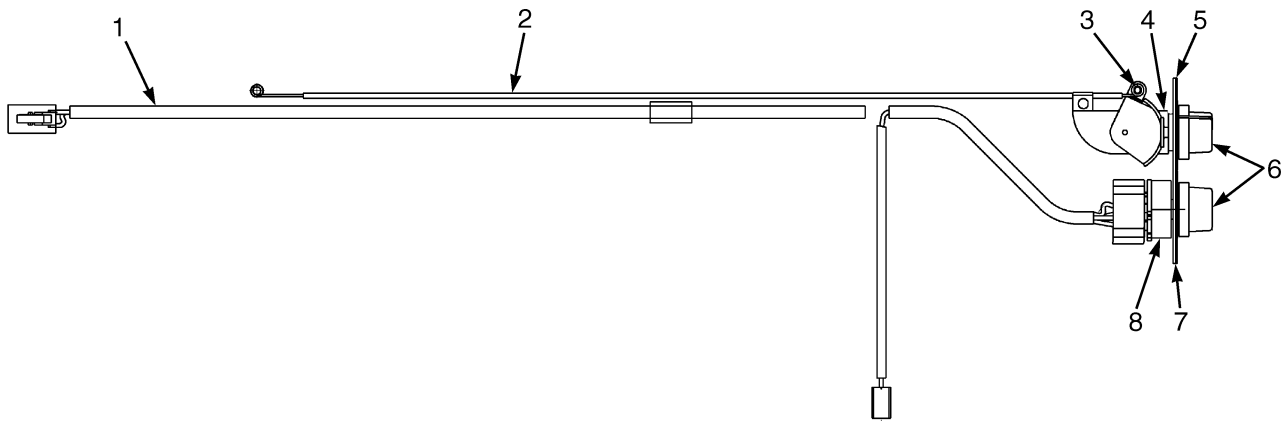


BP120551

HEATER

ITEM	PART NO.	DESCRIPTION	QTY
	1629280	Heater	1
1	1661971	Heater (Blower)	1
2	1661972	Heater (Coil)	1
3	1661973	Adapter (2.0 inch)	1
4	1661974	Adapter (2.5 inch)	1
5	1661975	Adapter (3.5 inch)	1
6	1661976	Heater (Blower Plate)	1
7		Casing	1
8	1661978	Cover	1
9	1661979	Bracket	1
10	1661980	Cover	1
11	1661981	Bracket	1
12	1661982	Bracket	1
13	1661983	Flange	1
14	1661984	Flange	1
15	1661985	Flange	1
16	1661986	Wire Harness	1
17	1661987	Valve	1
18	1661988	Filter	1
19	1487951	Hose (Heater)	1
20	1661989	Clamp	1
21	1661990	Gasket	1
22	220289	Screw	4
23	1662007	Screw	15
24	1662008	Screw	6
25	221420	Capscrew	9
26	187727	Rivet	2
27	15049	Nut	4
28	1661991	Screw (Plastic)	2
29	227096	Screw	6

HEATER CONTROL (FIGURE 1-21)



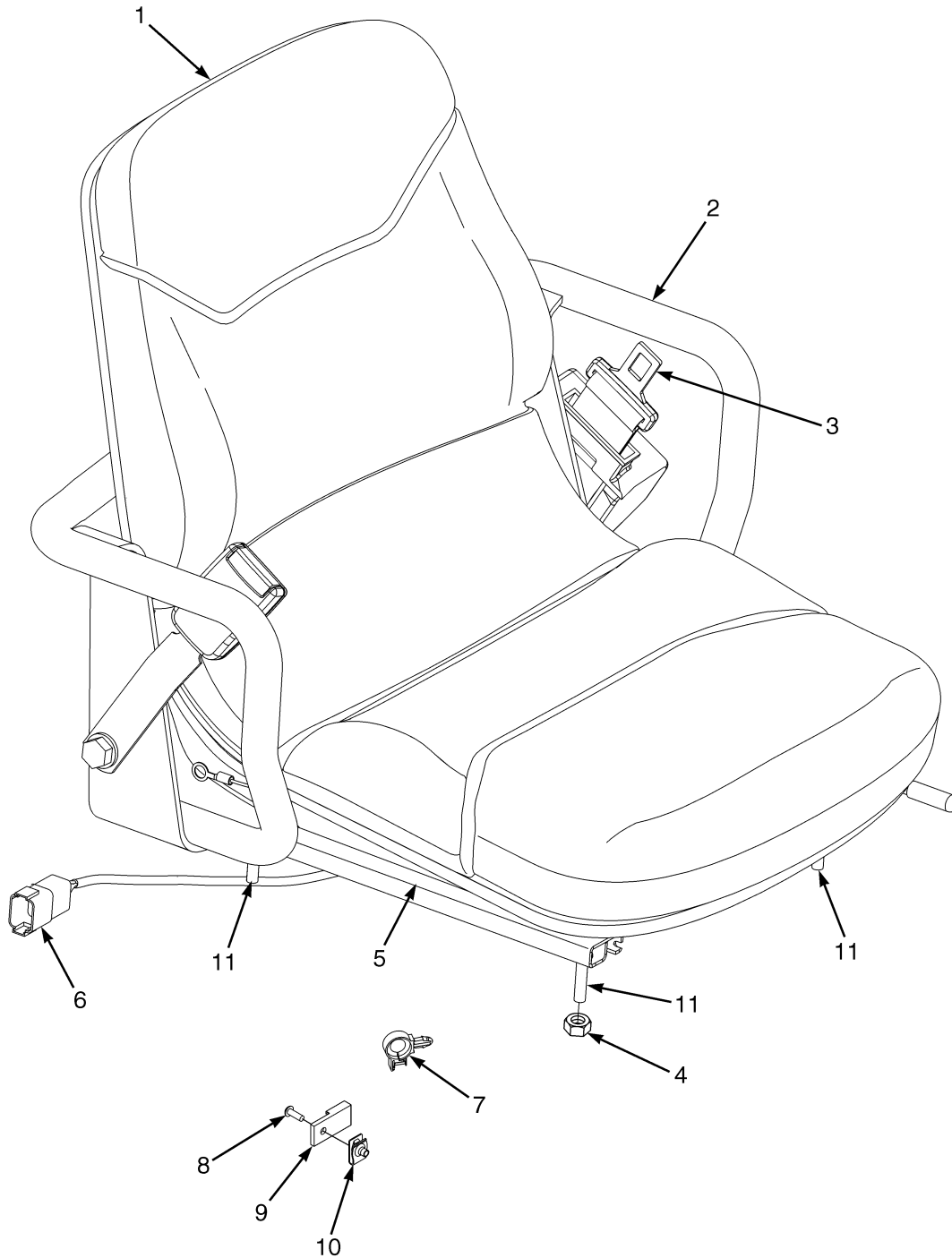
BP120564

ITEM	PART NO.	DESCRIPTION	QTY
	1677808	Heater Control	1
1	1690067	Wire Harness (Heater Control)	1
2	1690068	Push-Pull Cable	1
3	1487959	Switch (180 deg)	1
4	1690070	Shim	2
5	1690069	Label	1
6	1487957	Knob	2
7	1690066	Mounting Plate	1
8	1487956	Switch , Blower (with Nut)	1

NOTES

[illegible]

NON SUSPENSION SEAT (FIGURE 1-22)
WITH HIP RESTRAINT (→ PENDING PER ECN 10638102)



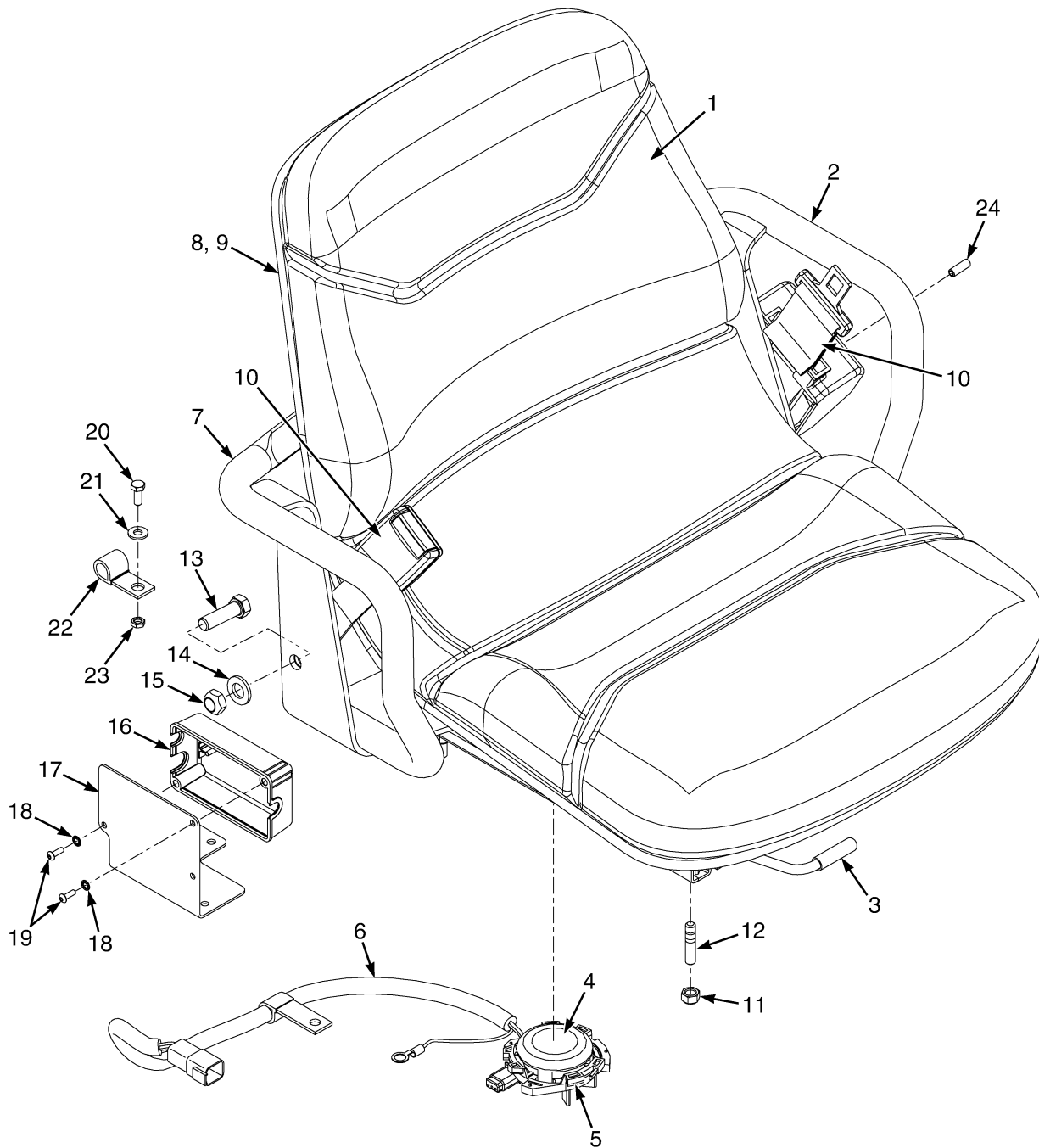
BP120292

NON SUSPENSION SEAT
WITH HIP RESTRAINT (→ PENDING PER ECN 10638102)

ITEM	PART NO.	DESCRIPTION	QTY
	b 2102122	Seat-Non Suspension Assembly (Vinyl) (Vinyl)	1
	c 2103360	Seat-Non Suspension (Vinyl)	1
	b 2102125	Seat-Non Suspension (Cloth)	1
	c 2103361	Seat-Non Suspension (Cloth)	1
1	1563351	Kit-Seat Cushion (Vinyl)	1
1	1563222	Kit-Seat Cushion (Cloth)	1
1	ab 1563215	Sensor (Operator Presence)	1
1	ac 1709876	Sensor (Operator Presence)	1
2	1563217	Hip Restraint (RH)	1
2	1563216	Hip Restraint (LH)	1
3	1598504	Kit-Seat Belt (Black)	1
3	1636120	Kit-Red Seat Belt	1
4	302400	Nut	4
5	1690996	Kit-Seat Rail	1
6	1591652	Wire Harness	1
7	1500901	Clip	1
8	296149	Capscrew	1
9	1500912	Clip	1
10	1537551	Nut	1
11	1677286	Stud	4

FOOTNOTES:**a** Not Illustrated**c** PENDING PER ECN 104987 →**b** → PENDING PER ECN 104987

NON SUSPENSION SEAT (FIGURE 1-23) WITHOUT ELECTRONIC CONTROLS (PENDING PER ECN 10638102 →)

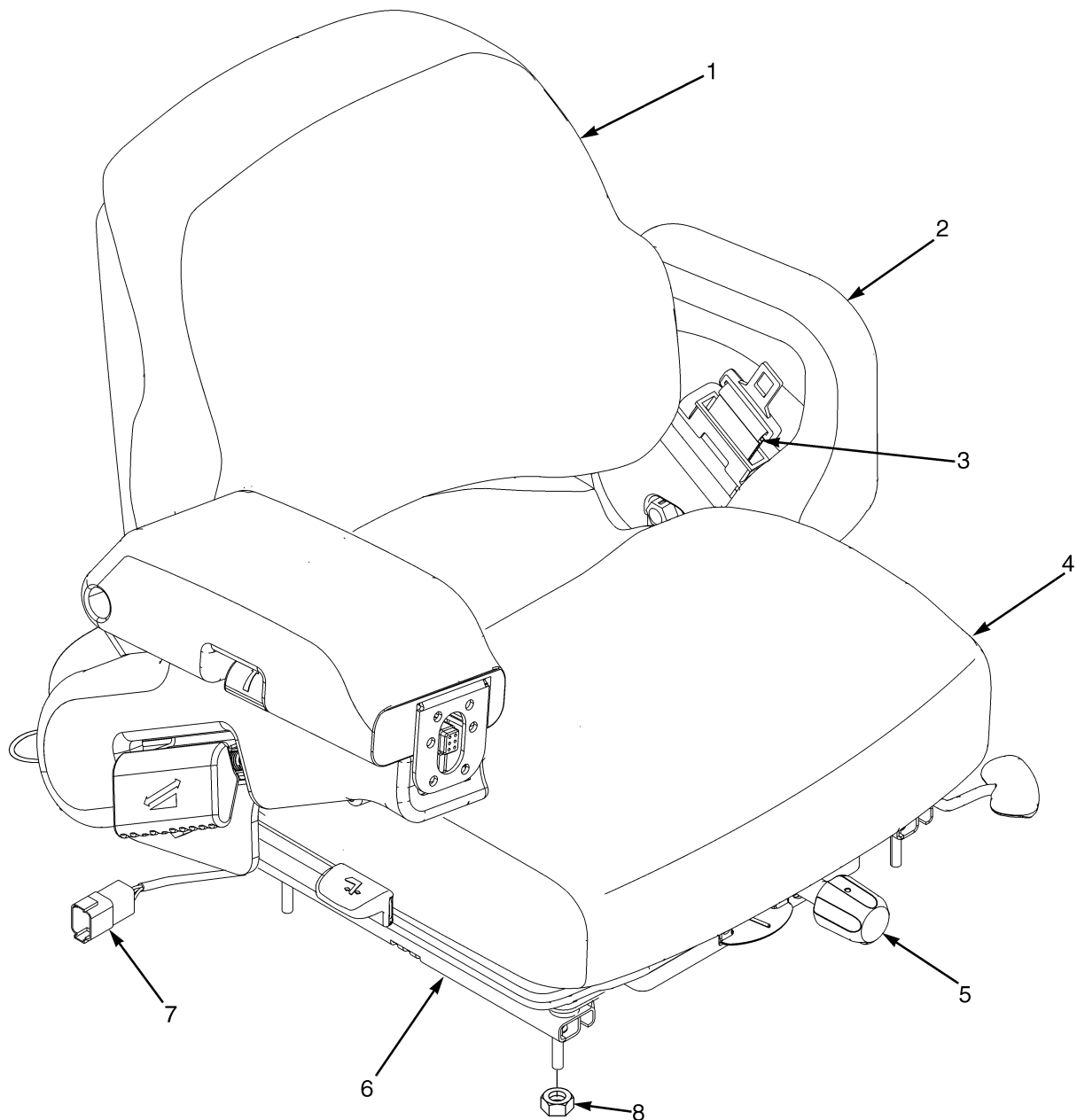


BP120693

NON SUSPENSION SEAT
WITHOUT ELECTRONIC CONTROLS (PENDING PER ECN 10638102 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4603376	Seat-Non Suspension	1
1	1563351	Kit-Seat Cushion (Vinyl)	1
2	1563216	Hip Restraint (LH)	1
3	1690996	Kit-Seat Rail	1
4	1709876	Sensor (Operator Presence)	1
5	4002682	Bracket (Operator Presence Sensor)	1
6	4013095	Wire Harness	1
7	1563217	Hip Restraint (RH)	1
8	1584060	Storage Box	1
9	1482950	Cover	1
10	1603701	Seat Belt	1
10	1598504	Kit-Seat Belt (Black)	1
10	1636120	Kit-Red Seat Belt	1
11	313828	Nut	4
12	1677286	Stud	4
13	221536	Capscrew	2
14	1581852	Washer	6
15	221353	Locknut	2
16	2107969	Cover (Seat Side Electrical)	1
17	4007891	Cover Plate	1
18	296357	Washer	2
19	1694830	Capscrew	2
20	292500	Capscrew	2
21	15127	Washer	1
22	272133	Clamp	1
23	1593334	Nut	2

FULL SUSPENSION SEAT (FIGURE 1-24)
WITH AND WITHOUT ELECTRONIC CONTROLS (→ PENDING PER ECN 106377)



BP120127

FULL SUSPENSION SEAT

WITH AND WITHOUT ELECTRONIC CONTROLS (→ PENDING PER ECN 106377)

KEY:

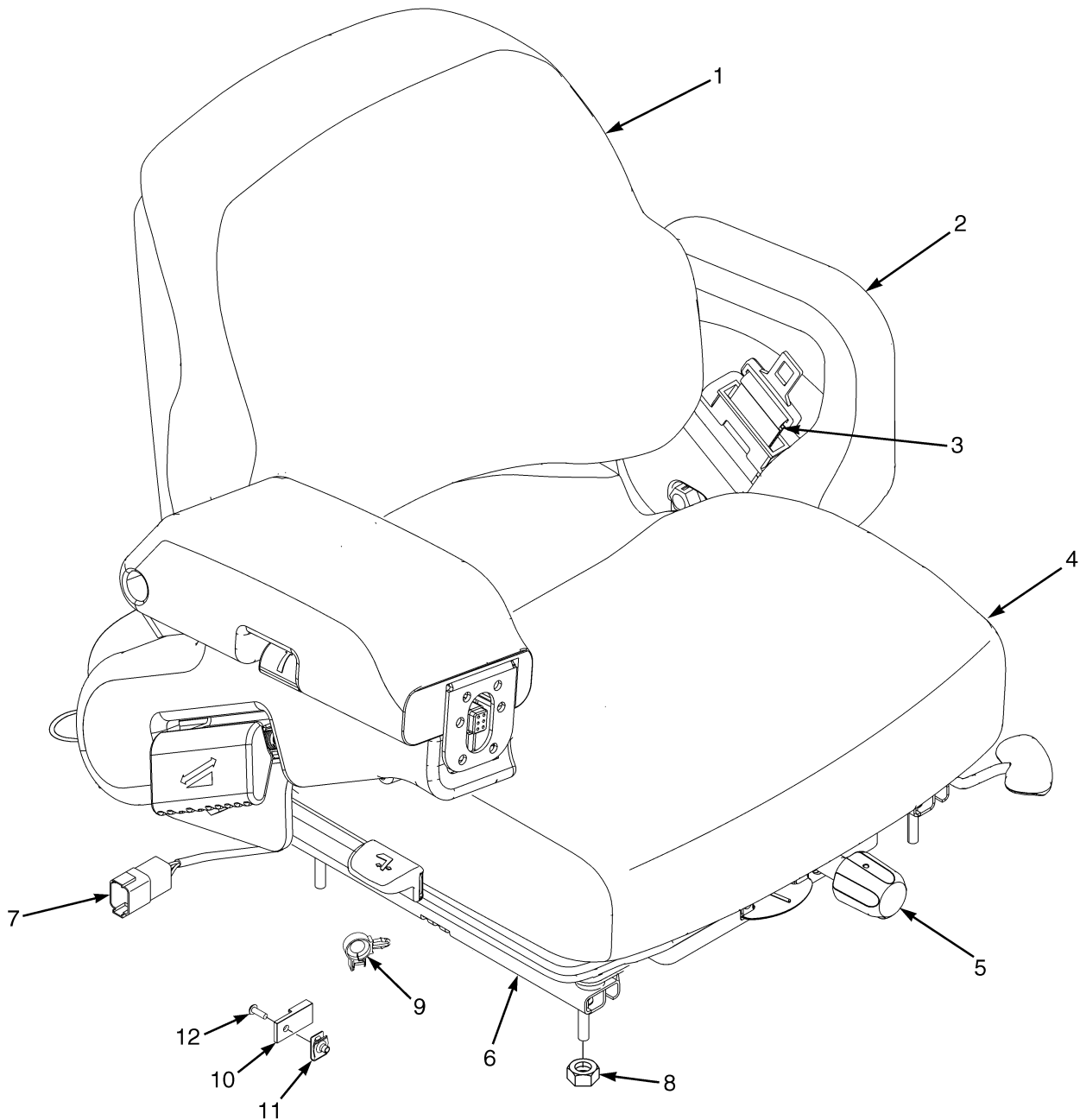
- A:** Full Suspension (Vinyl)
B: Full Suspension (Cloth)
C: Full Suspension (Vinyl with Electronic Control Arm)
D: Full Suspension (Cloth with Electronic Control Arm)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1593425	Seat-Full Suspension (Vinyl)	1	..	..	..
	1593426	Seat-Full Suspension (Cloth)	..	1	..	..
	2084981	Seat-Full Suspension (Vinyl)	..	..	1	..
	2084982	Seat-Full Suspension (Cloth)	..	..	..	1
1	1470152	Seat Cushion (Back Cushion) (Vinyl)	1	..	1	..
1	1470153	Seat Cushion (Back Cushion) (Cloth)	..	1	..	1
2	1470157	Hip Restraint (LH)	1	1	1	1
2	1470156	Hip Restraint (RH)	1	1	..	..
3	1598504	Kit-Seat Belt (Black)	1	1	1	1
3	1636120	Kit-Red Seat Belt	1	1	1	1
4	1563207	Seat Cushion (Vinyl)	1	..	1	..
4	1566453	Seat Cushion (Cloth)	..	1	..	1
5	1470163	Kit-Weight Adjuster	1	1	1	1
5	1584631	Knob	1	1	1	1
5	1600126	Handle	1	1	1	1
6	1470161	Kit-Seat Rail	1	1	1	1
7	1591652	Wire Harness	1	1	..	..
7	1654891	Wire Harness	..	..	1	1
8	191941	Nut	4	4	4	4
	a 1500901	Clip	..	..	1	1
	a 1500912	Clip	..	..	1	1
	a 1537551	Nut	..	..	1	1
	a 296149	Capscrew	..	..	1	1
	a 1483828	Kit-Gas Spring (Mounted to the rear of the seat)	1	1	..	..
	a 1563210	Cap (Electronic Control Arm)	..	..	1	1
	a 1563211	Knob (Electronic Control Arm)	..	..	1	1
	a 1470155	Information Case (Kit)	1	1	1	1
	a 1467529	Kit-Spring	1	1	1	1
	a 1627639	Weight Adjust Rack	1	1	1	1
	a 1467525	Kit-Bumper	1	1	1	1
	a 1467523	Kit-Boot	1	1	1	1
	a 1467526	Kit-Shaft and Bearing	1	1	1	1
	a 1467524	Kit-Bearing	1	1	1	1
	a 1467527	Kit-Weight Adjuster Indicator	1	1	1	1
	a 1563208	Sensor (Operator Presence)	1	1	1	1

FOOTNOTES:

a Not Illustrated

FULL SUSPENSION SWIVEL SEAT (FIGURE 1-25) WITH AND WITHOUT ELECTRONIC CONTROLS (→ PENDING PER ECN 106377)



BP120289

FULL SUSPENSION SWIVEL SEAT **WITH AND WITHOUT ELECTRONIC CONTROLS (→ PENDING PER ECN 106377)**

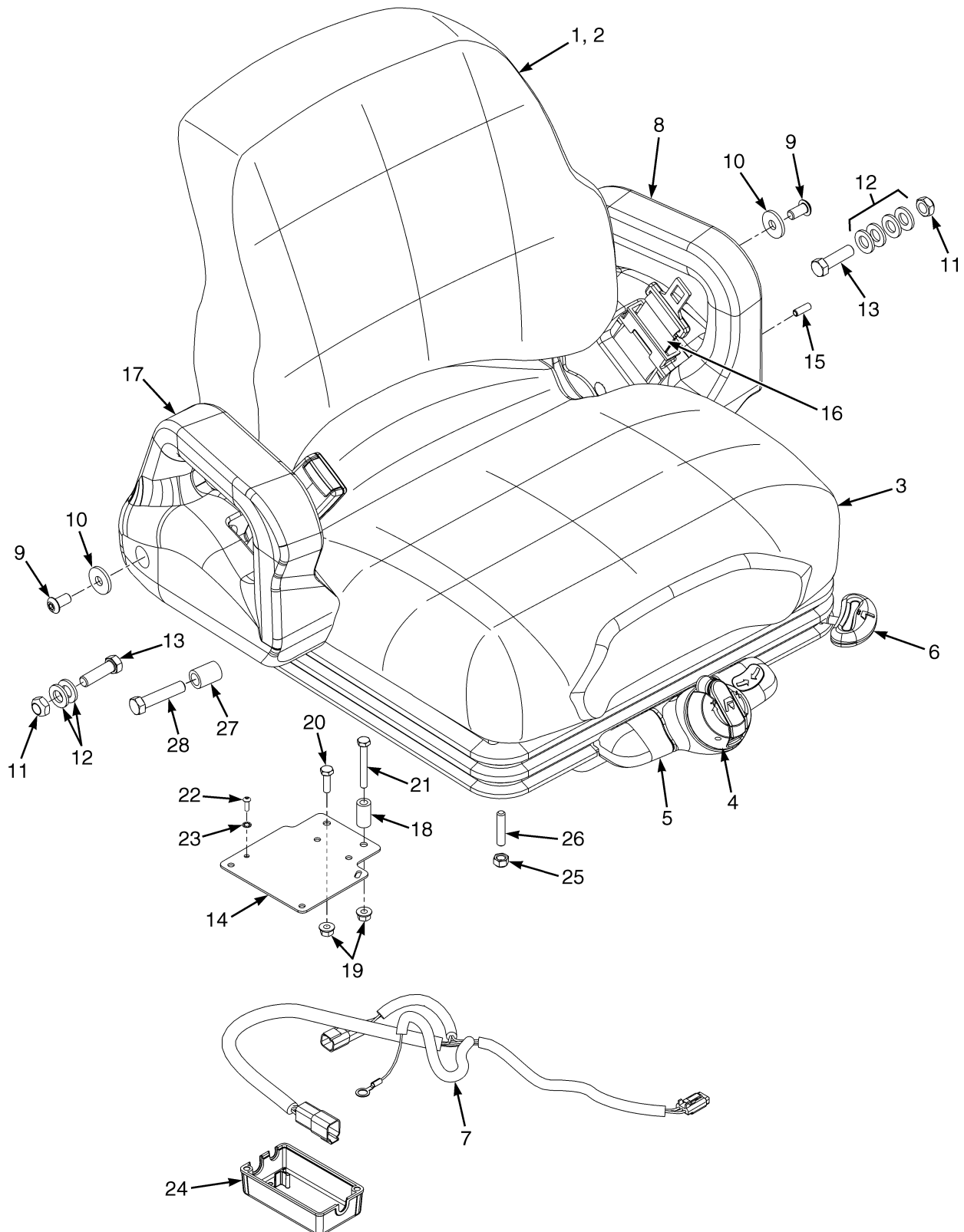
KEY:**A:** Full Suspension with Hip Restraints**B:** Full Suspension with Electronic Control Arm

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1593437	Seat-Full Suspension (Vinyl)	1	..
	1593438	Seat-Full Suspension (Cloth)	1	..
	2085188	Seat-Full Suspension (Vinyl)	..	1
	2085190	Seat Assy -Full Suspension (Cloth)	..	1
1	1470152	Seat Cushion (Back Cushion) (Vinyl)	1	1
1	1470153	Seat Cushion (Back Cushion) (Cloth)	1	1
2	1470157	Hip Restraint (LH)	1	1
2	1470156	Hip Restraint (RH)	1	..
3	1598504	Kit-Seat Belt (Black)	1	1
3	1636120	Kit-Red Seat Belt	1	1
4	1563207	Seat Cushion (Vinyl)	1	1
4	1566453	Seat Cushion (Cloth)	1	1
5	1470163	Kit-Weight Adjuster	1	1
5	1584631	Knob	1	1
5	1600126	Handle	1	1
6	1470161	Kit-Seat Rail	1	1
7	1591652	Wire Harness	1	..
7	1654891	Wire Harness	..	1
8	191941	Nut	4	4
9	1500901	Clip	..	1
10	1500912	Clip	..	1
11	1537551	Nut	..	1
12	296149	Capscrew	..	1
	a 1483828	Kit-Gas Spring (Mounted to the rear of the seat)	1	1
	a 1647532	Foam (Cap Electronic Control Arm)	..	1
	a 1563211	Knob (Electronic Control Arm)	..	1
	a 1470155	Information Case (Kit)	1	1
	a 1467529	Kit-Spring	1	1
	a 1684395	Kit-Swivel Seat Full Susp	1	1
	a 1467525	Kit-Bumper	1	1
	a 1467523	Kit-Boot	1	1
	a 1467526	Kit-Shaft and Bearing	1	1
	a 1467524	Kit-Bearing	1	1
	a 1467527	Kit-Weight Adjuster Indicator	1	1
	1563208	Sensor (Operator Presence)	1	1
	1546689	Lever (Swivel Release)	1	1

FOOTNOTES:**a** Not Illustrated

FULL SUSPENSION SEAT (FIGURE 1-26)

MANUAL AND ELECTRO-HYDRAULIC — SWIVEL AND NON-SWIVEL (PENDING PER ECN 106377 →)



BP120683

FULL SUSPENSION SEAT**MANUAL AND ELECTRO-HYDRAULIC – SWIVEL AND NON-SWIVEL (PENDING PER ECN 106377 →)****KEY:****A: w/o Electronic Control Arm****B: w/ Electronic Control Arm**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4603382	Seat-Full Suspension (Vinyl) (Non-Swivel)	1	1
	4603383	Seat-Full Suspension (Cloth) (Non-Swivel)	1	1
	4603384	Seat-Full Suspension (Vinyl) (Swivel)	1	1
	4603385	Seat-Full Suspension (Cloth) (Swivel)	1	1
1	1703900	Kit-Cushion (Seat and Back, Cloth)	1	1
1	1703903	Kit-Cushion (Seat and Back, Vinyl)	1	1
2	1703901	Kit-Cushion (Back Cushion, Vinyl)	1	1
2	1703898	Kit-Cushion (Back Cushion, Cloth)	1	1
2		Back Cushion	1	1
2		Screw	2	2
3	1703902	Kit-Seat Cushion (Vinyl)	1	1
3	1703899	Kit-Seat Cushion (Cloth)	1	1
3		Seat Cushion	1	1
3		Spring	2	2
3		Cotter Pin	2	2
4	1703892	Kit-Weight Adjuster	1	1
4		Knob	1	1
4		Bushing	1	1
4		Washer	1	1
4		Pin	1	1
5	1703893	Kit-Service (Front Panel) (Non Swivel)	1	1
5		Front Panel	1	1
5		Socket Head Capscrew	2	2
5		Roll Pin	1	1
5	1703894	Kit-Service (Front Panel) (With Swivel)	1	1
5		Front Panel	1	1
5		Knob	1	1
5		Socket Head Capscrew	1	1
5		Roll Pin	2	2
6	1703904	Kit-Seat Rail	1	1
6		Locking Rail	1	1
6		Slave Rail	1	1
6		Bolt	4	4
6		Nut	4	4
7	4013095	Wire Harness	1	1
7	1563208	Sensor (Operator Presence)	1	1
8	4009620	Armrest (Left-Hand Side)	1	1
9	18735	Screw	2	1
9	18738	Capscrew	..	1
10	1512536	Washer	2	1
10	4007319	Spacer	..	1
11	221353	Locknut	2	2
12	1581852	Washer	6	6
13	221536	Capscrew	2	1
14	4004776	Cover Plate	1	1

FULL SUSPENSION SEAT

MANUAL AND ELECTRO-HYDRAULIC – SWIVEL AND NON-SWIVEL (PENDING PER ECN 106377 →)

KEY:

A: w/o Electronic Control Arm

B: w/ Electronic Control Arm

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
15	19901	Roll Pin	1	1
16	1598504	Kit-Seat Belt (Black)	1	1
16	1636120	Kit-Red Seat Belt	1	1
17	2099951	Armrest (Right-Hand Side)	1	..
17		Armrest (Electro-Hydraulic)	..	1
17	4005010	Armrest (Slider with Mini Lever) (☞Figure 1-28).....	..	1
17		Mini-Lever Modules (☞Figure 4-23, ☞Figure 4-24).....	..	1
18	4007318	Spacer	2	2
19	169874	Nut	4	4
20	18462	Capscrew	2	2
21	18471	Capscrew	2	2
22	1694830	Capscrew	2	2
23	296357	Washer	2	2
24	2107969	Cover (Seat Side Electrical)	1	1
25	313828	Nut	4	4
26	1677286	Stud	4	4
27	1694700	Spacer	..	1
28	221542	Capscrew	..	1
	a 1470155	Information Case (Kit)	1	1
	1703895	Kit-Service Internal Tether-80 MM Travel	1	1
	1703896	Kit-Service Internal Tether-56 MM Travel	1	1
	1703897	Kit-Service Internal Tether-40 MM Travel	1	1

FOOTNOTES:

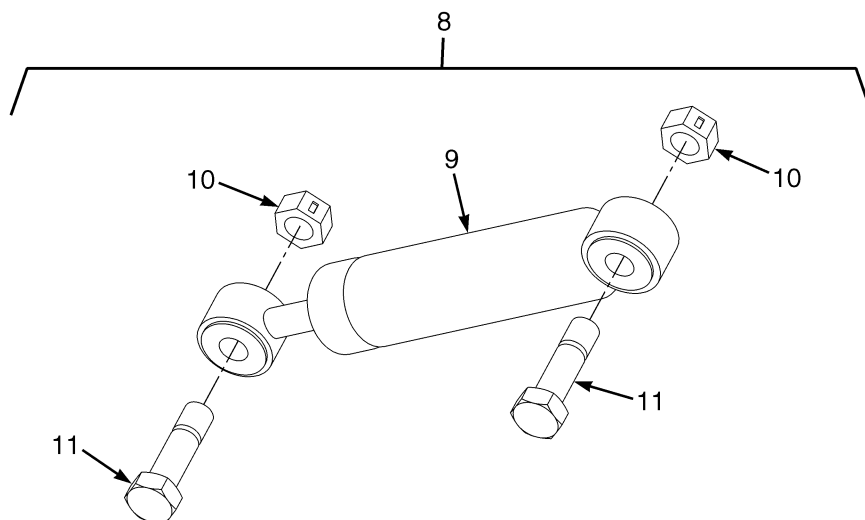
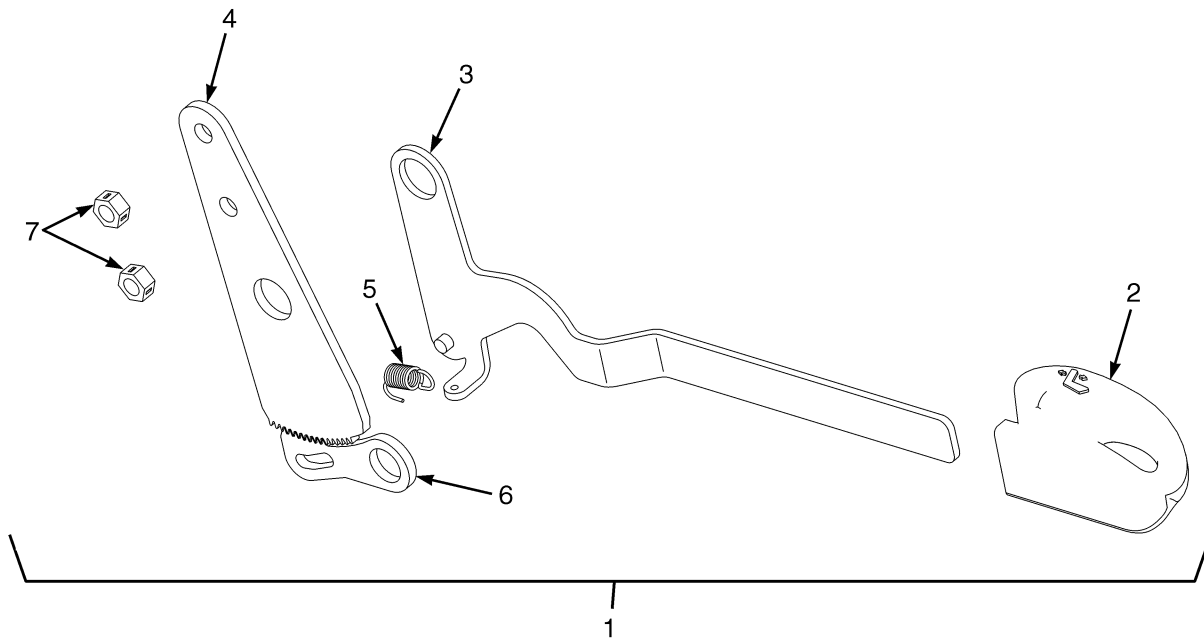
a Not Illustrated

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

FULL SUSPENSION SEAT (FIGURE 1-27)

SHEET 2 OF 2 (PENDING PER ECN 106377 →)

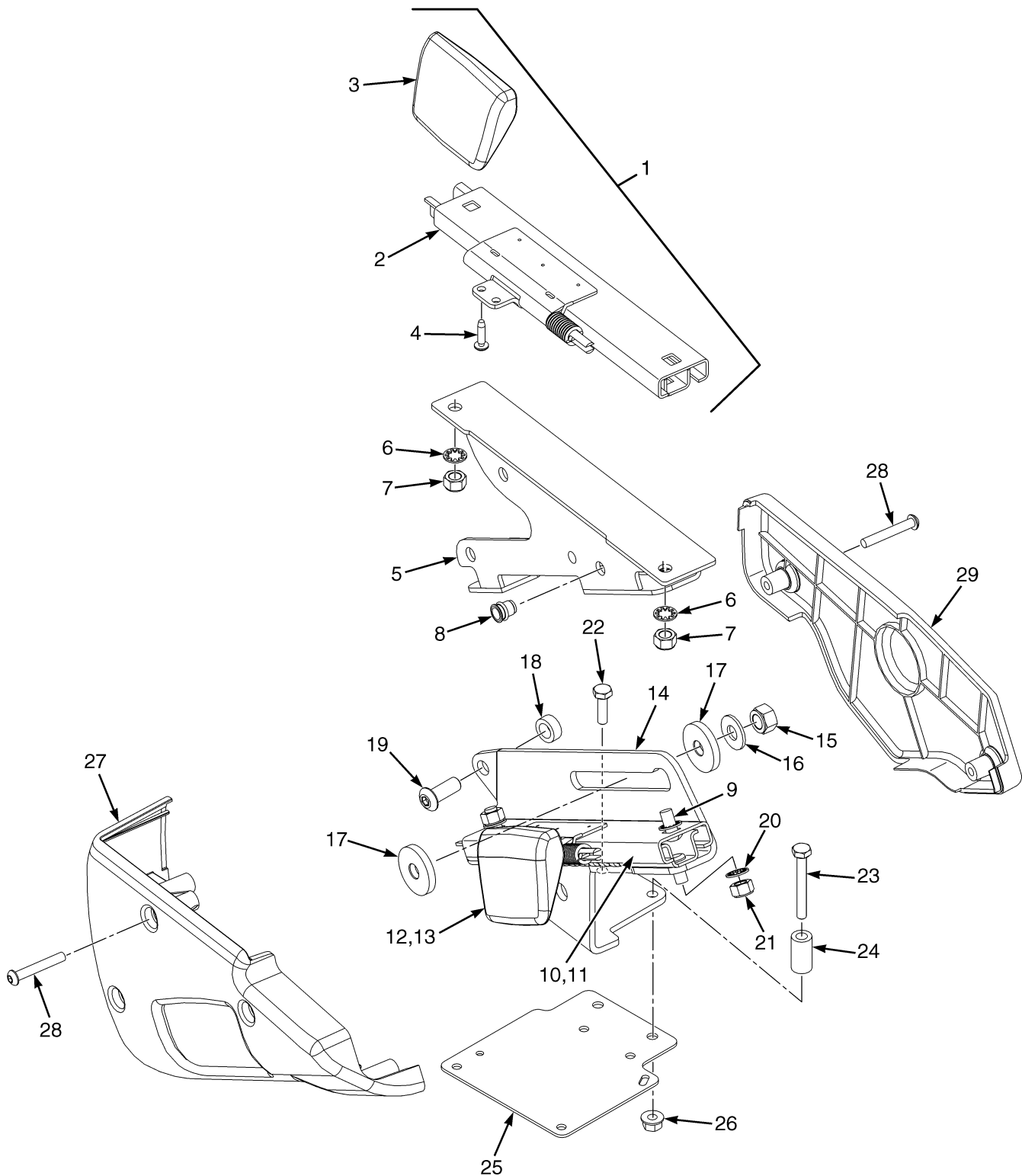


BP120646

FULL SUSPENSION SEAT
SHEET 2 OF 2 (PENDING PER ECN 106377 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1703891	Kit-Recliner (Back Seat Adjustment)	1
2		Knob	1
3		Lever	1
4	1482905	Plate	1
5		Spring	1
6	1482906	Latch	1
7	1367150	Nut	2
8	1703890	Kit-Damper Service	1
9	1584632	Damper	1
10	1367150	Nut	2
11	1584638	Bolt	2

ARMREST ASSEMBLY (FIGURE 1-28) MINI-LEVER MODULES

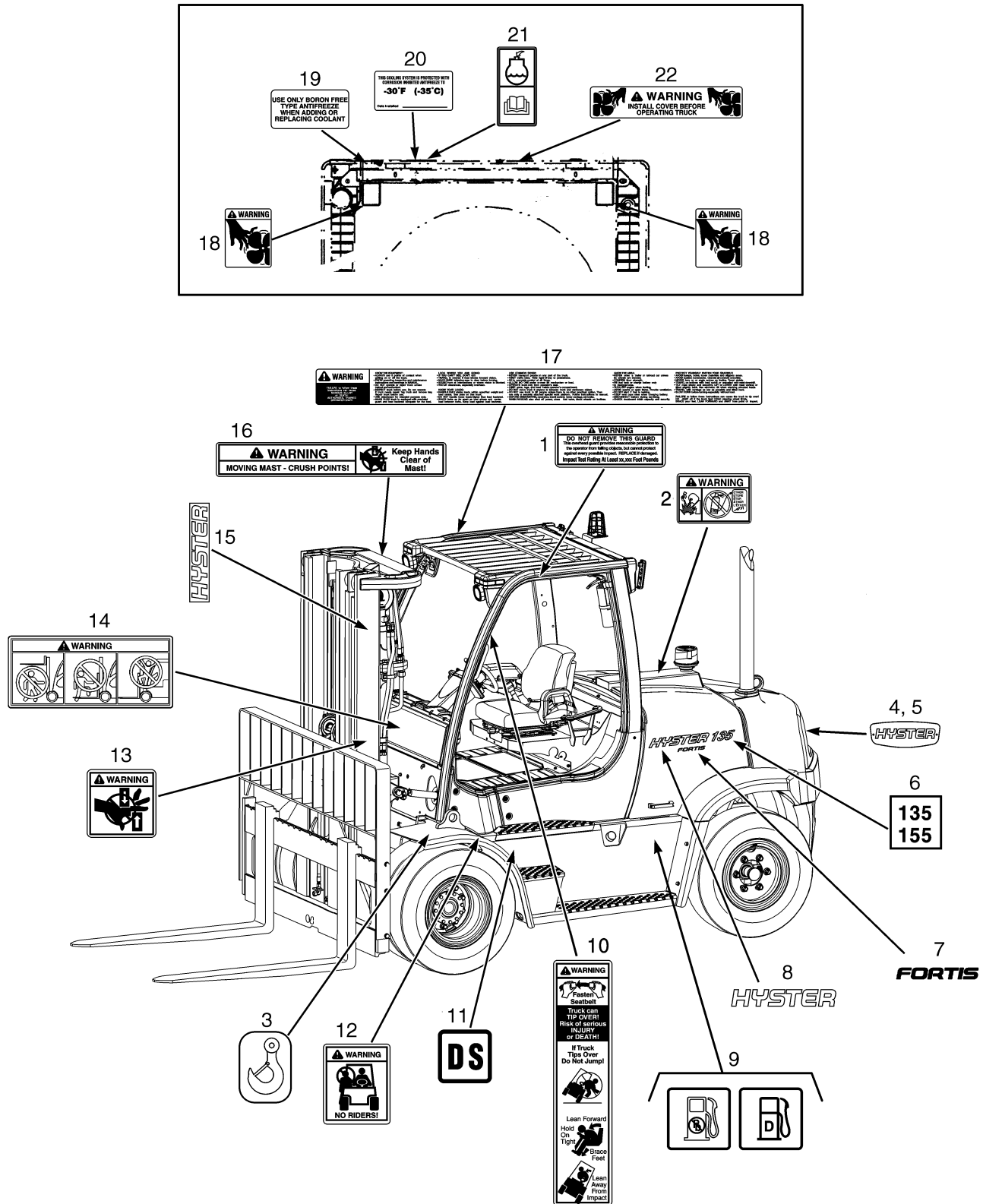


BP120701

**ARMREST ASSEMBLY
MINI-LEVER MODULES**

ITEM	PART NO.	DESCRIPTION	QTY
	4005010	Armrest (Slider with Mini Lever)	1
1		Slider Assembly	1
2	1661511	Armrest (Slider)	1
3	1655865	Handle (Slider)	1
4	227157	Screw	2
5	4007052	Bracket Wldmt	1
6	296360	Washer	4
7	313828	Nut	4
8	1531558	Insert	3
9	296165	Capscrew	2
10		Slider Assembly	1
11	1661511	Armrest (Slider)	1
12	1655865	Handle (Slider)	1
13	227157	Screw	2
14	4004775	Bracket	1
15	316826	Nut	1
16	320160	Washer	1
17	1650640	Washer	2
18	4007319	Spacer	1
19	18738	Capscrew	1
20	296360	Washer	2
21	313828	Nut	2
22	18462	Capscrew	1
23	18471	Capscrew	1
24	4007318	Spacer	1
25	4004776	Cover Plate	1
26	169874	Nut	2
27	4603492	Cover	1
28	2062875	Capscrew	5
29	4603493	Cover	1

LABELS (FIGURE 1-29) EXTERIOR



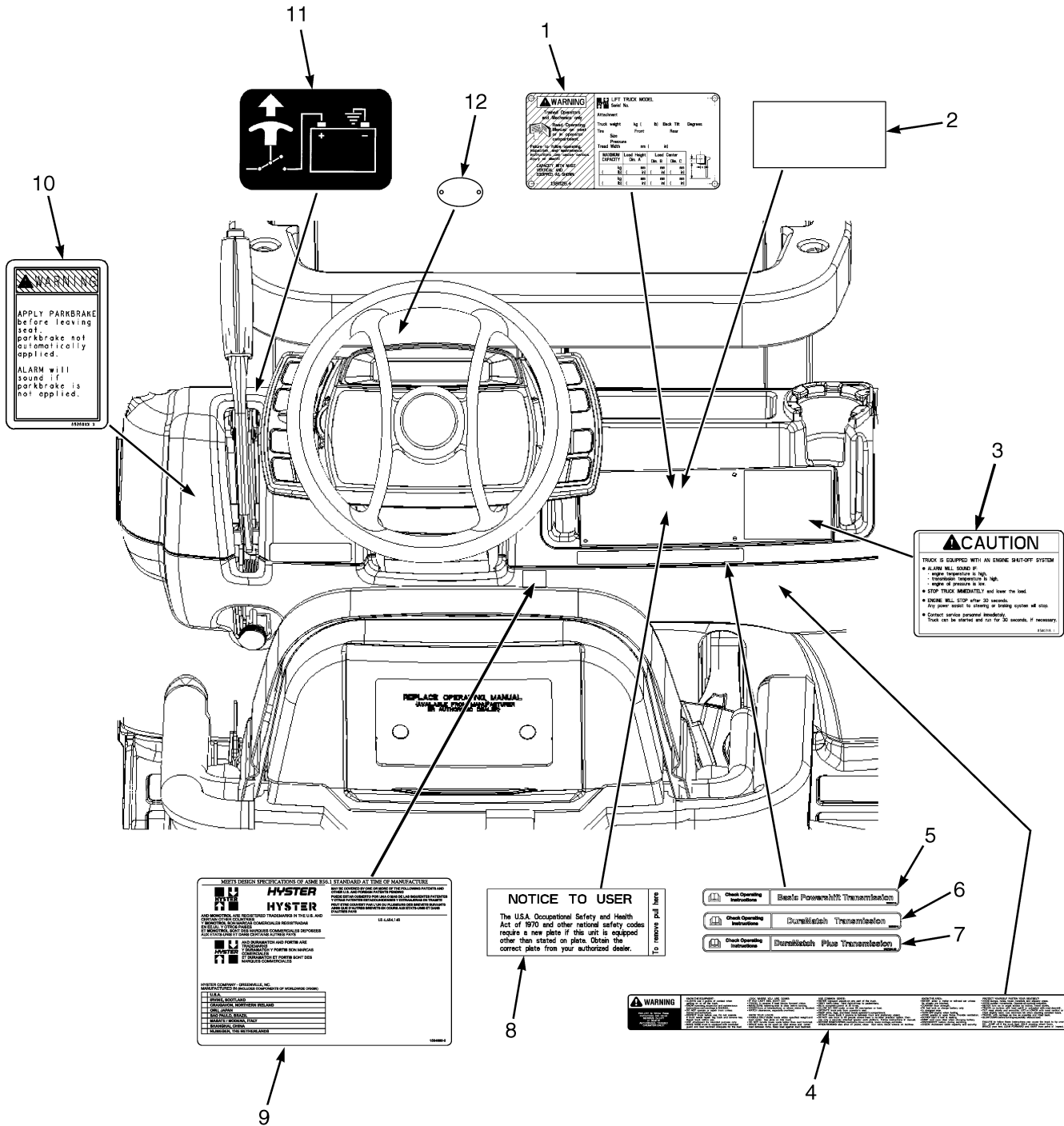
BP120322

**LABELS
EXTERIOR**

ITEM	PART NO.	DESCRIPTION	QTY
1	a	Label (Impact Rating)	1
2	b 2034459	Label (Ether Warning)	1
3	316448	Label (Lifting Eye)	3
4	1677428	Label (Hyster Logo)	1
5	c 2073197	Label (Operator Warning)	1
6	1639478	Label (Model 135)	2
6	1639479	Label (Model 155)	2
7	1586439	Label (Fortis)	2
8	1636393	Label (Hyster)	2
9	2074255	Label (Unleaded Fuel Only)	1
9	2074256	Label (Diesel Fuel Only)	1
10	1330917	Label (Operator Restraint)	2
11	b 154067	Label (Type DS)	2
12	1330920	Label (No Riders)	2
13	1335129	Label (Pinch Point)	2
14	2075656	Label (Mast Warning)	2
15	1562353	Label (Hyster)	2
16	1330919	Label (Mast Warning)	1
17	2073197	Label (Operator Warning)	1
18	1345939	Label (Fan Warning)	2
19	1375676	Label (Boron-Free Antifreeze)	1
20	1354165	Label (Antifreeze)	1
21	2089112	Label (Coolant Fill)	1
22	1325271	Label (Fan Warning)	1

FOOTNOTES:**a** Contact Your Local Hyster Dealer**c** Without Cab**b** Diesel

LABELS (FIGURE 1-30) INTERIOR



BP120328

**LABELS
INTERIOR**

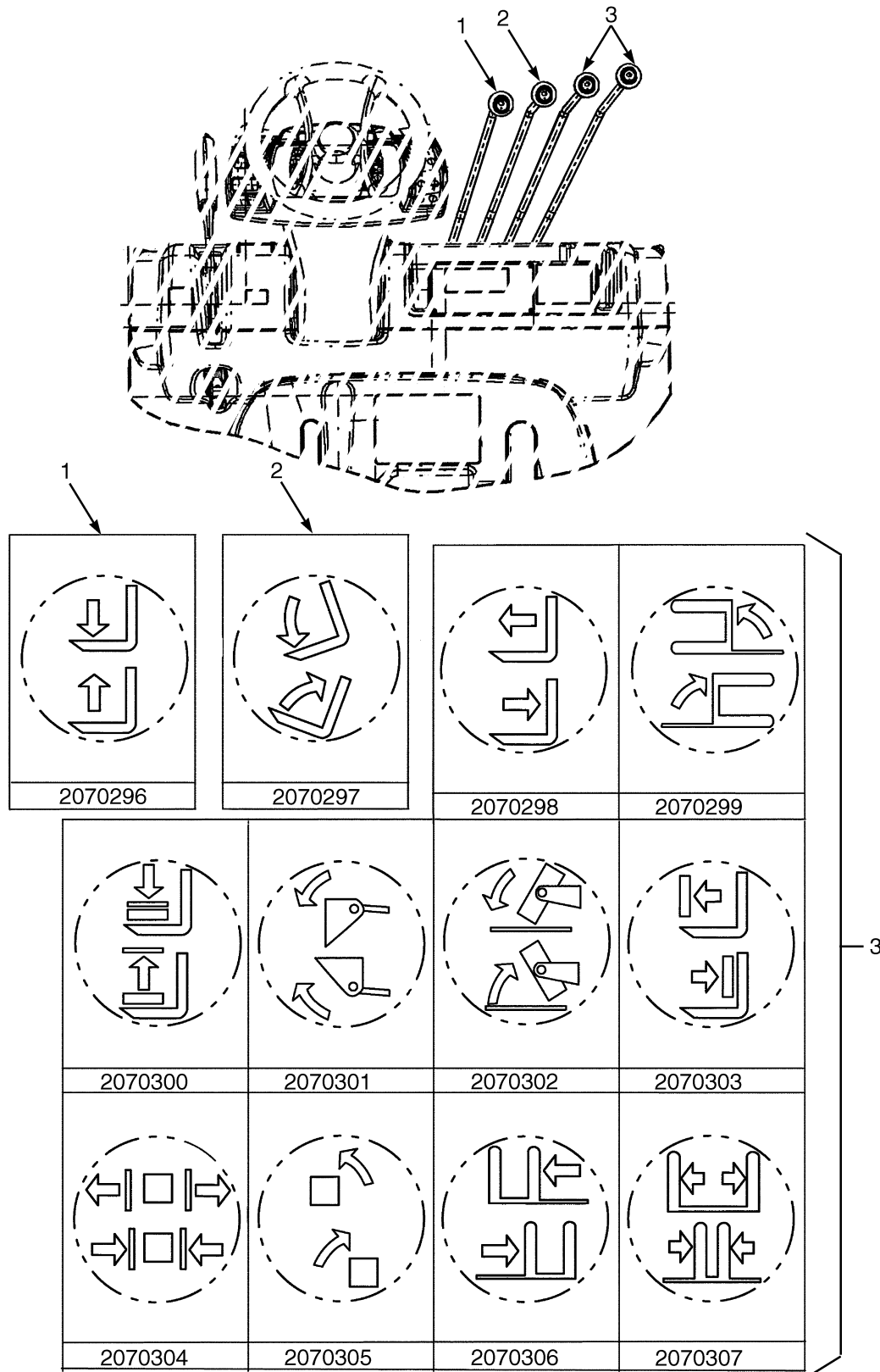
ITEM	PART NO.	DESCRIPTION	QTY
1	a	Nameplate	1
1	170658	Rivet	4
2	389688	Nameplate	1
3	1385102	Label (Drive Train Protection)	1
4	2073197	Label (Operator Warning)	1
5	1589377	Label (Basic Powershift Transmission)	1
6	b 1589397	Label (DuraMatch Transmission)	1
7	b 1589417	Label (DuraMatch Plus Transmission)	1
8	1335137	Label (Nameplate Tag)	1
9	1534660	Label (Patents and Trademarks)	1
10	2074209	Label (Parking Brake Warning)	1
11	d 1324480	Label (Battery Switch)	1
12	a	UL Inspection Plate	1
	c 2106332	Label (ECM Code) (Standard Transmission Only) (☞Figure 4-18).....	1

FOOTNOTES:

- a** Contact Your Local Hyster Dealer
b Electronic Transmission

- c** Not Illustrated
d UL Type DS

CONTROL LEVER LABELS (FIGURE 1-31) MANUAL HYDRAULICS



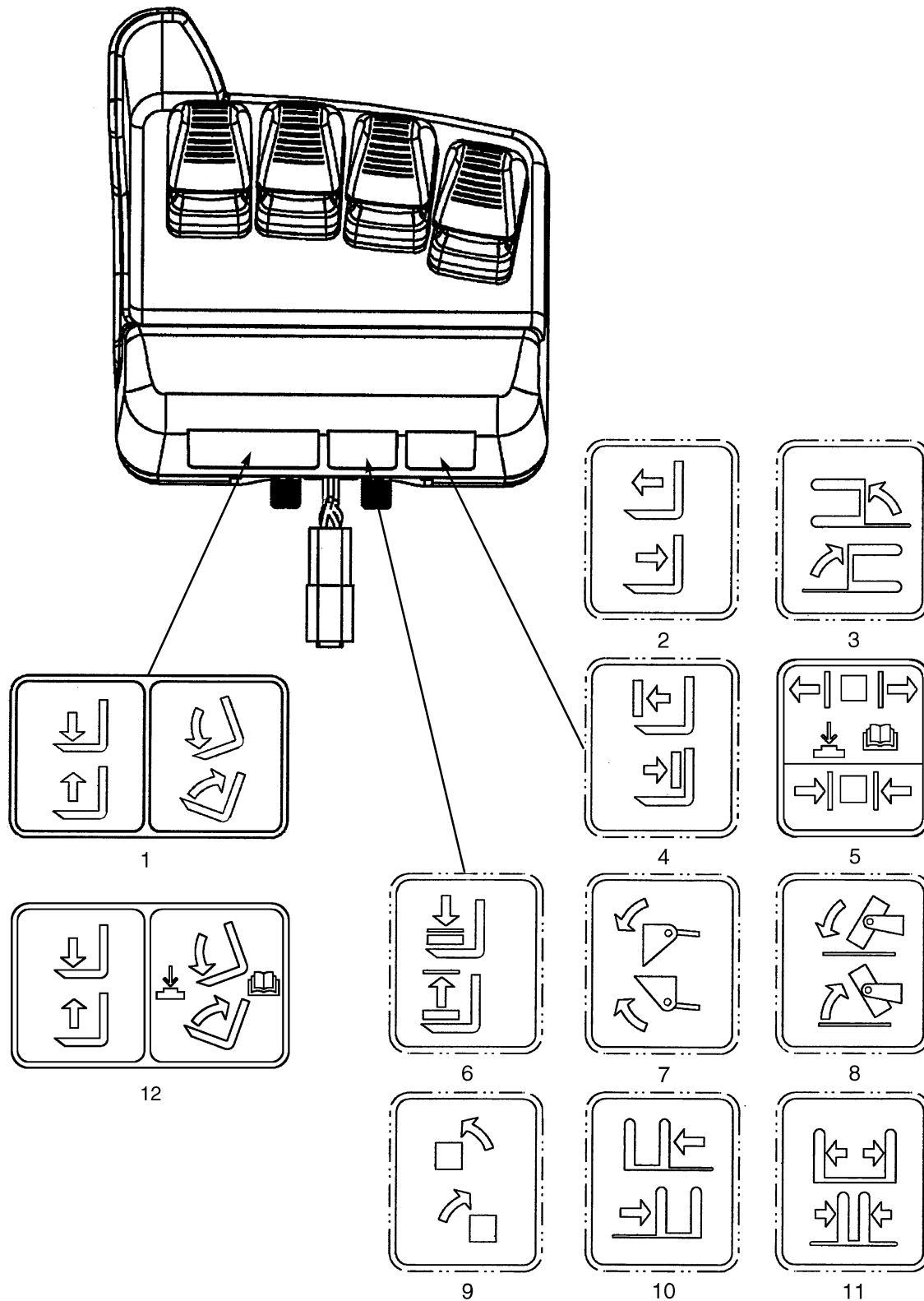
HP120829

**CONTROL LEVER LABELS
MANUAL HYDRAULICS**

ITEM	PART NO.	DESCRIPTION	QTY
1	2070296	Lens (Lift)	1
2	2070297	Lens (Tilt)	1
3	2070298	Lens (Reach)	1
3	2070299	Lens (Swing)	1
3	2070300	Lens (Load Stabilizer)	1
3	2070301	Lens (Scoop)	1
3	2070302	Lens (Upender)	1
3	2070303	Lens (Push/Pull)	1
3	2070304	Lens (Clamp)	1
3	2070305	Lens (Rotate)	1
3	2070306	Lens (Side-Shift)	1
3	2070307	Lens (Fork Spread)	1
	a 2070655	Lens (Blank)	1

FOOTNOTES:**a** Not Illustrated

ELECTRONIC MINI LEVER LABELS (FIGURE 1-32) SINGLE FUNCTION

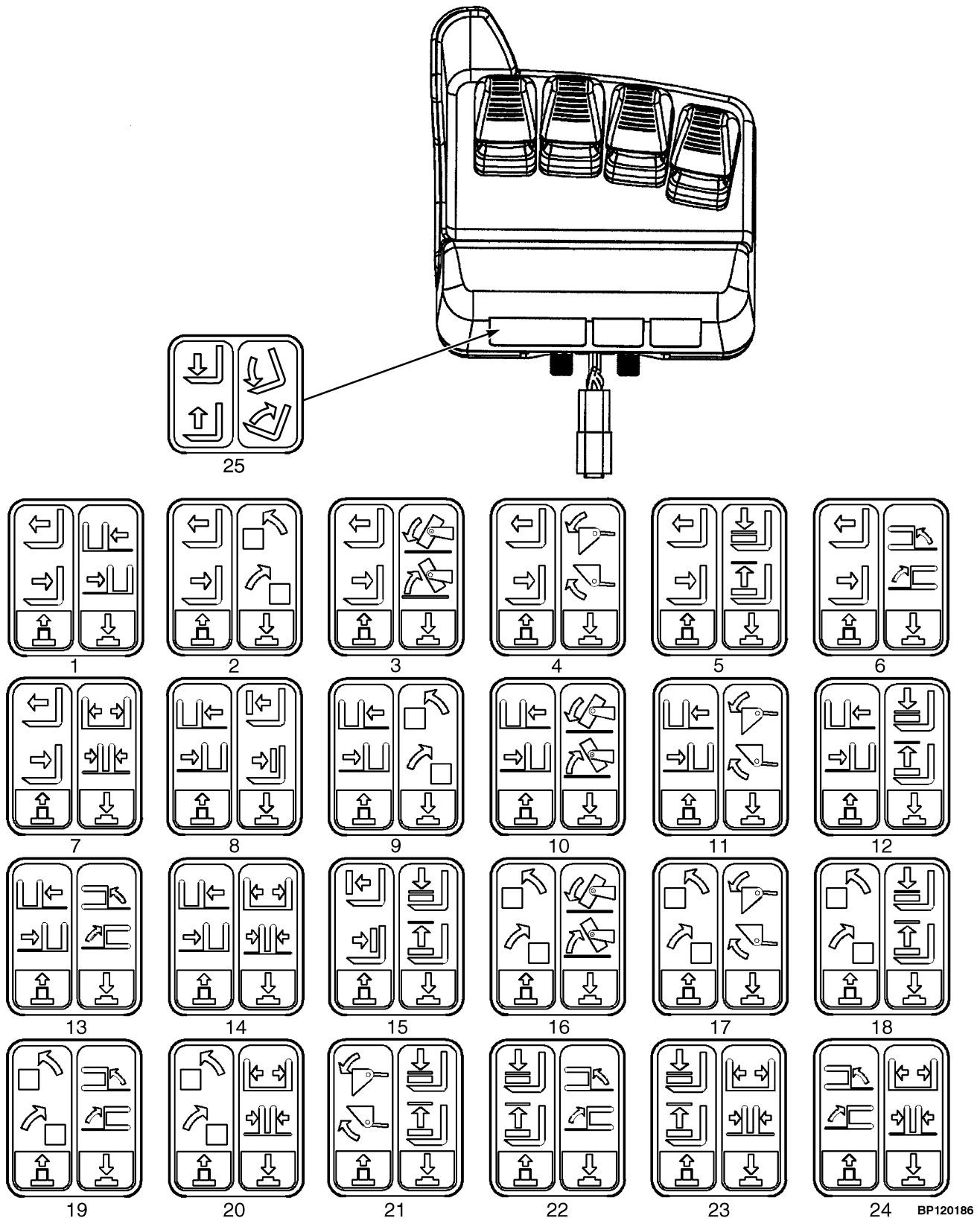


BP120199

**ELECTRONIC MINI LEVER LABELS
SINGLE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1581055	Label (Hoist and Tilt)	1
2	2073115	Label (Reach)	1
3	2073114	Label (Swing)	1
4	2073118	Label (Push/Pull)	1
5	2085877	Label (Clamp)	1
6	2073116	Label (Load Stabilizer)	1
7	2073117	Label (Scoop)	1
8	2073119	Label (Upender)	1
9	2073121	Label (Rotate)	1
10	2073122	Label (Side-Shift)	1
11	2073123	Label (Fork Spread)	1
12	2085875	Label (Hoist and Tilt with Return to Set Tilt)	1

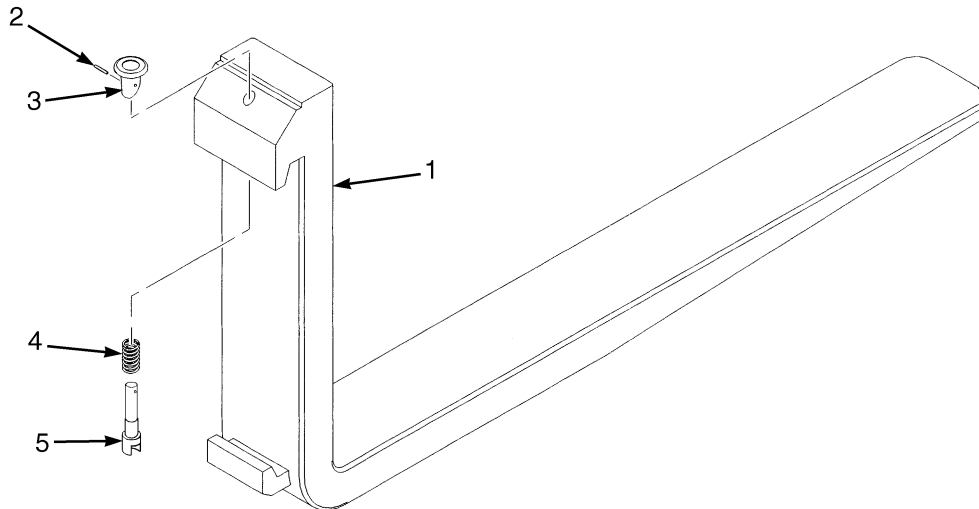
ELECTRONIC MINI LEVER LABELS (FIGURE 1-33) DUAL FUNCTION



**ELECTRONIC MINI LEVER LABELS
DUAL FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	2081229	Label (Reach/Side-Shift)	1
2	2081230	Label (Reach/Rotate)	1
3	2081231	Label (Reach/Upender)	1
4	2081232	Label (Reach/Scoop)	1
5	2081233	Label (Reach/Load Stabilizer)	1
6	2081234	Label (Reach/Swing)	1
7	2081235	Label (Reach/Fork Spread)	1
8	2081236	Label (Side-Shift/Push or Pull)	1
9	2081237	Label (Side-Shift/Rotate)	1
10	2081238	Label (Side-Shift/Upender)	1
11	2081239	Label (Side-Shift/Scoop)	1
12	2081240	Label (Side-Shift/Load)	1
13	2081241	Label (Side-Shift/Swing)	1
14	2081242	Label (Side-Shift/Fork Spread)	1
15	2081243	Label (Push or Pull/Load)	1
16	2081244	Label (Rotate/Upender)	1
17	2081245	Label (Rotate/Scoop)	1
18	2081246	Label (Rotate/Load Stabilizer)	1
19	2081247	Label (Rotate/Swing)	1
20	2081248	Label (Rotate/Fork Spreader)	1
21	2081249	Label (Scoop/Load Stabilizer)	1
22	2081250	Label (Load Stabilizer/Swing)	1
23	2081251	Label (Load Stabilizer/Fork Spread)	1
24	2081252	Label (Swing/Fork Spread)	1
25	1581055	Label (Hoist and Tilt)	1

FORKS (FIGURE 1-34) STANDARD TAPER — CLASS IV

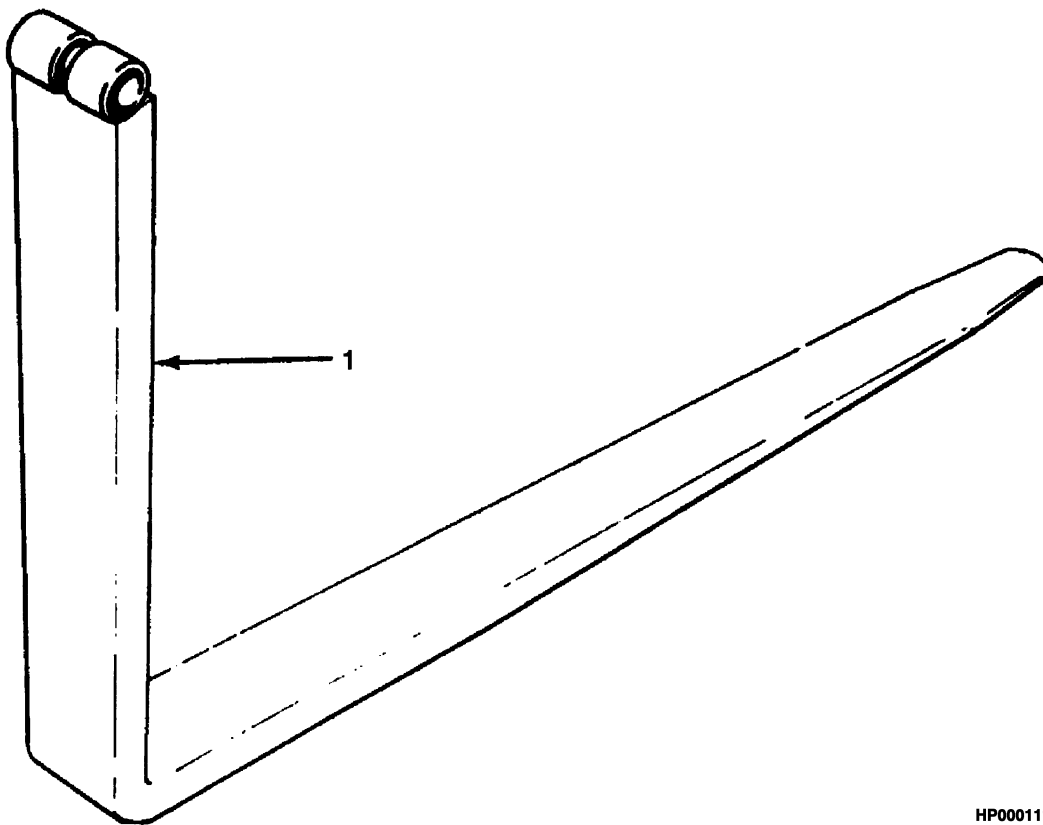


BP000187

ITEM	PART NO.	DESCRIPTION	QTY
1	1333001	Fork (48 in.)	2
1	1333002	Fork (54 in.)	2
1	1333003	Fork (60 in.)	2
1	1333004	Fork (72 in.)	2
1	1647909	Fork (96 in.)	2
2	1523734	Pin	1
3	1523732	Knob	1
4	1500786	Spring	1
5	1523741	Pin	1
	1523742	Kit-Latch (Class IV)	2

NOTES

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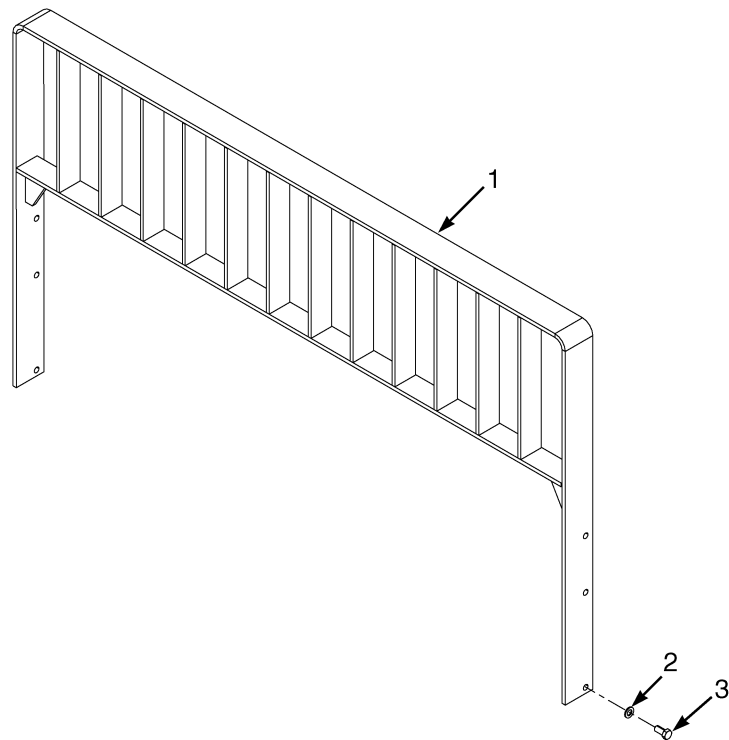
FORKS (FIGURE 1-35)
PIN TYPE

HP000111

**FORKS
PIN TYPE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1330787	Fork (48 in.)	2
1	1330791	Fork (54 in.)	2
1	1330792	Fork (60 in.)	2
1	1330793	Fork (72 in.)	2
1	1330794	Fork (96 in.)	2

LOAD BACKREST EXTENSION (FIGURE 1-36)



BP120324

ITEM	PART NO.	DESCRIPTION	QTY
1	115112W	Load Backrest (78 in.) (Pin Type)	1
1	1652028	Load Backrest (78 in.) (Hook Type)	1
2	1581854	Washer	6
3	1581833	Capscrew	6

2

ENGINE ASSEMBLY

SECTION 2 ENGINE ASSEMBLY

DESCRIPTION	PAGE
AIR INTAKE MANIFOLD	
CUMMINS QSB 3.3L DIESEL	2-80
ASSEMBLED ENGINE	
GM 4.3L GASOLINE AND LPG - SHEET 1 OF 3	2-18
GM 4.3L GASOLINE AND LPG - SHEET 2 OF 3	2-22
GM 4.3L GASOLINE AND LPG - SHEET 3 OF 3	2-26
CAMSHAFT	
CUMMINS QSB 3.3L DIESEL	2-63
CAMSHAFT AND OIL PAN	
GM 4.3L GASOLINE AND LPG	2-34
COIL ASSEMBLY	
GM 4.3L GASOLINE AND LPG	2-42
COOLING	
CUMMINS QSB 3.3L	2-12
COOLING SYSTEM	
GM 4.3L GASOLINE AND LPG	2-8
CRANKCASE BREATHER	
CUMMINS QSB 3.3L DIESEL	2-72
CRANKSHAFT	
CUMMINS QSB 3.3L DIESEL	2-70
CYLINDER BLOCK	
CUMMINS QSB 3.3L DIESEL	2-46
GM 4.3L GASOLINE AND LPG	2-32
CYLINDER HEAD	
CUMMINS QSB 3.3L DIESEL	2-48
GM 4.3L GASOLINE AND LPG	2-30
ENGINE MOUNTING	
CUMMINS QSB 3.3L DIESEL	2-43
GM 4.3L GASOLINE AND LPG	2-14
EXHAUST MANIFOLD	
CUMMINS QSB 3.3L DIESEL	2-78
EXHAUST SYSTEM	
CUMMINS QSB 3.3L	2-4
GM 4.3L GASOLINE AND LPG	2-6
FAN ASSEMBLY	
CUMMINS QSB 3.3L DIESEL	2-44
FAN MOUNT ASSEMBLY	
GM 4.3L GASOLINE AND LPG	2-28
FLYWHEEL AND HOUSING	
CUMMINS QSB 3.3L DIESEL	2-52
GM 4.3L GASOLINE AND LPG	2-16
LIFTING BRACKET	
CUMMINS QSB 3.3L DIESEL	2-45
OIL FILLER ARRANGEMENT	
CUMMINS QSB 3.3L DIESEL	2-62
OIL FILTER AND COOLER	
CUMMINS QSB 3.3L DIESEL	2-58
OIL LEVEL GAUGE	
CUMMINS QSB 3.3L DIESEL	2-84

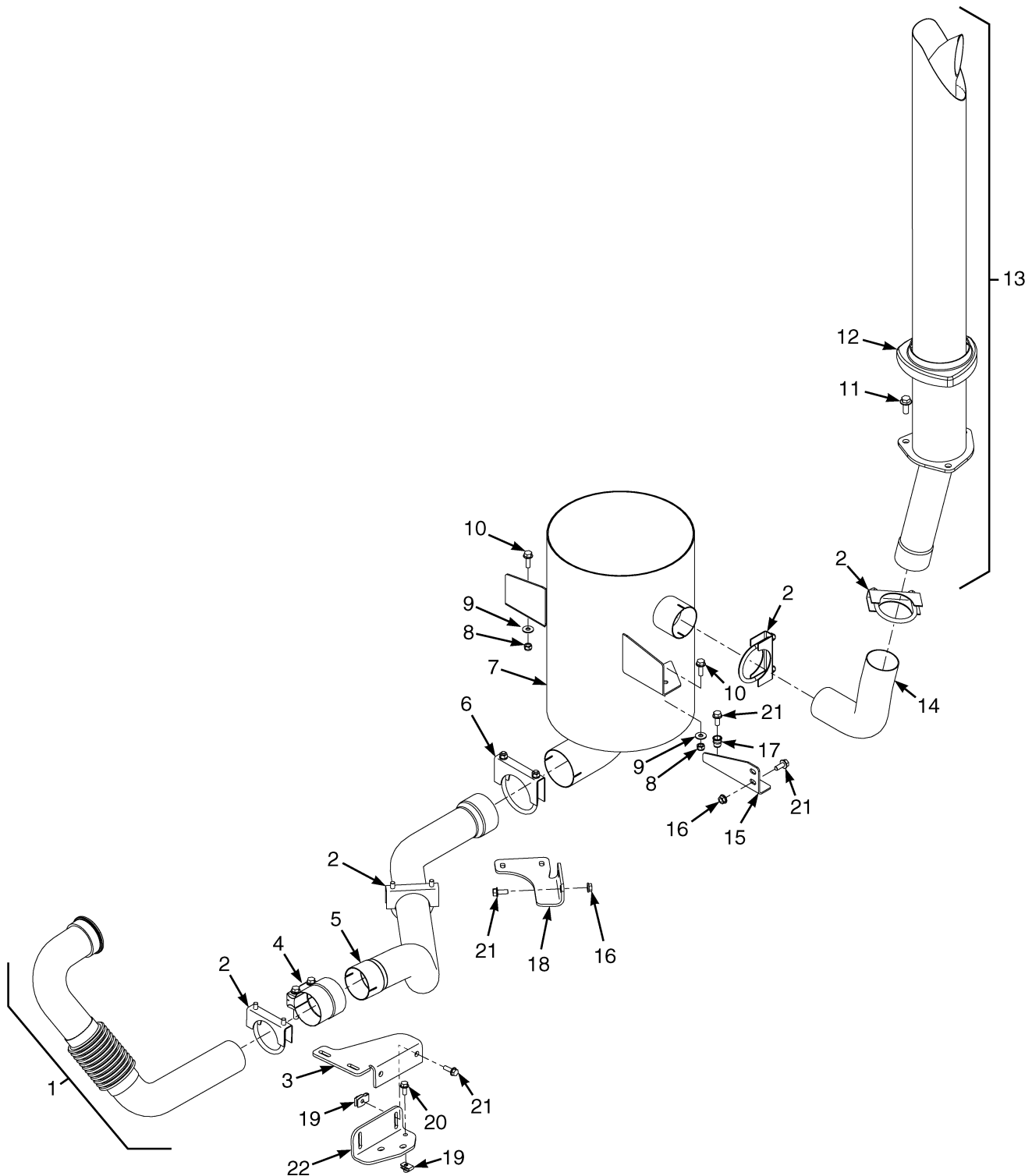
**SECTION 2
ENGINE ASSEMBLY**

DESCRIPTION	PAGE
OIL PAN	
CUMMINS QSB 3.3L DIESEL	2-56
OIL PUMP	
GM 4.3L GASOLINE AND LPG	2-40
OIL PUMP AND FRONT GEAR COVER	
CUMMINS QSB 3.3L DIESEL	2-60
PISTON AND CONNECTING ROD	
CUMMINS QSB 3.3L DIESEL	2-68
RADIATOR MOUNTING	
CUMMINS QSB 3.3L DIESEL	2-10
ROCKER ARM SHAFT	
CUMMINS QSB 3.3L DIESEL	2-66
STARTING AID	
CUMMINS QSB 3.3L DIESEL	2-82
THERMOSTAT	
CUMMINS QSB 3.3L DIESEL	2-50
TURBOCHARGER	
CUMMINS QSB 3.3L DIESEL	2-74
TURBOCHARGER PLUMBING	
CUMMINS QSB 3.3L DIESEL	2-76
VALVE COVER	
CUMMINS QSB 3.3L DIESEL	2-64
VALVE COVER AND INLET MANIFOLD	
GM 4.3L GASOLINE AND LPG	2-38
VIBRATION DAMPER	
CUMMINS QSB 3.3L DIESEL	2-83
WATER PUMP AND PULLEY	
CUMMINS QSB 3.3L DIESEL	2-54

NOTES

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EXHAUST SYSTEM (FIGURE 2-1) CUMMINS QSB 3.3L

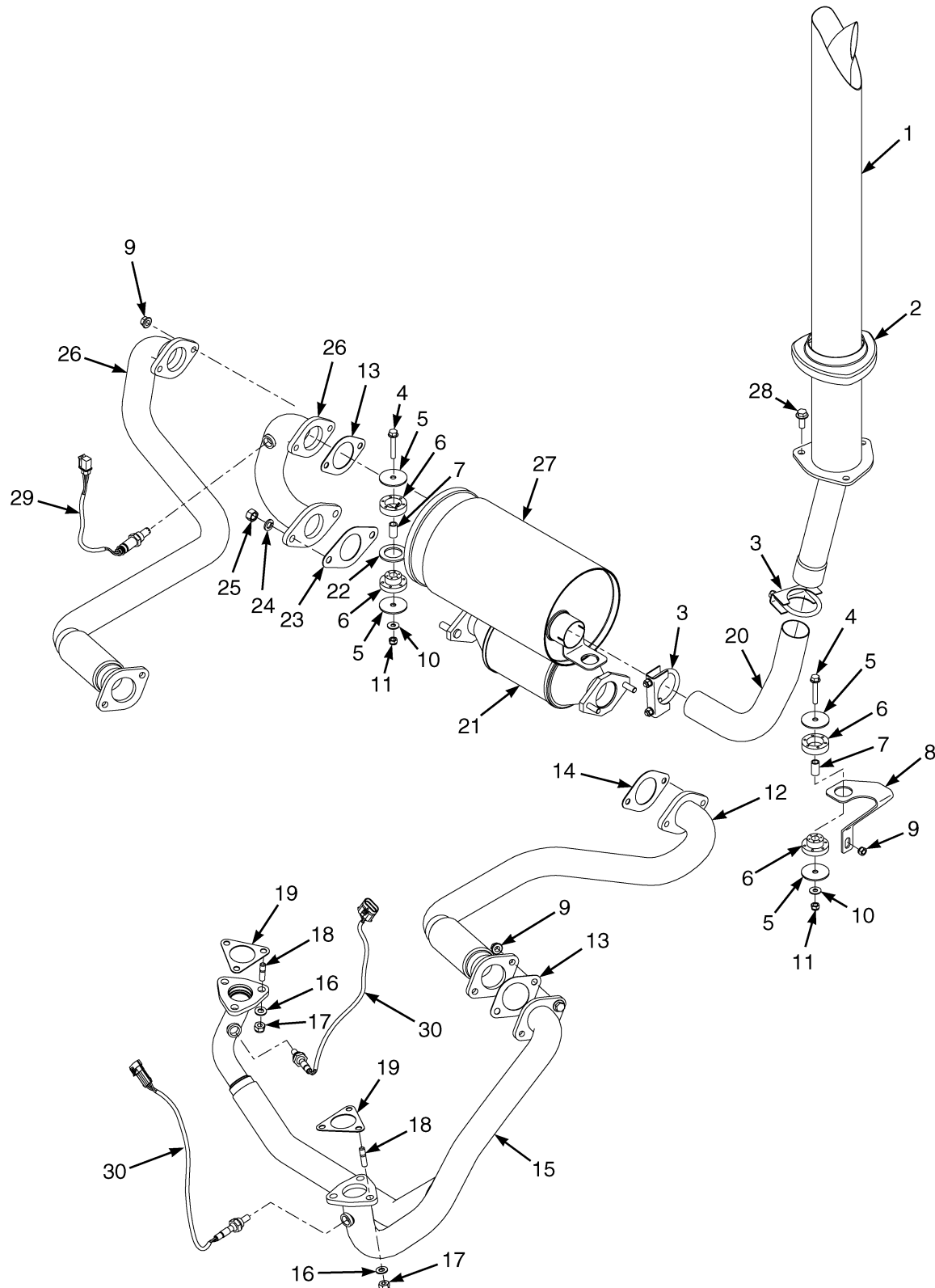


BP090412

**EXHAUST SYSTEM
CUMMINS QSB 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
1	1670604	Exhaust Pipe	1
2	30372	Clamp	4
3	4010347	Bracket (Exhaust)	1
4	4010345	Clamp	1
5	1697342	Exhaust Pipe	1
6	30375	Clamp	1
7	2107736	Muffler	1
8	1582222	Locknut	2
9	320158	Washer	2
10	1510113	Capscrew	2
11	1510117	Capscrew	3
12	1668428	Cover	1
13	1666569	Overhead Exhaust	1
14	1666570	Exhaust Pipe	1
15	1687082	Bracket	1
16	1502543	Nut (Flange)	4
17	1530243	Insert	2
18	1697344	Bracket	1
19	1393879	Nut	2
20	1527880	Capscrew	5
21	1510113	Capscrew	2
22	4010355	Bracket (Exhaust)	1

EXHAUST SYSTEM (FIGURE 2-2) GM 4.3L GASOLINE AND LPG



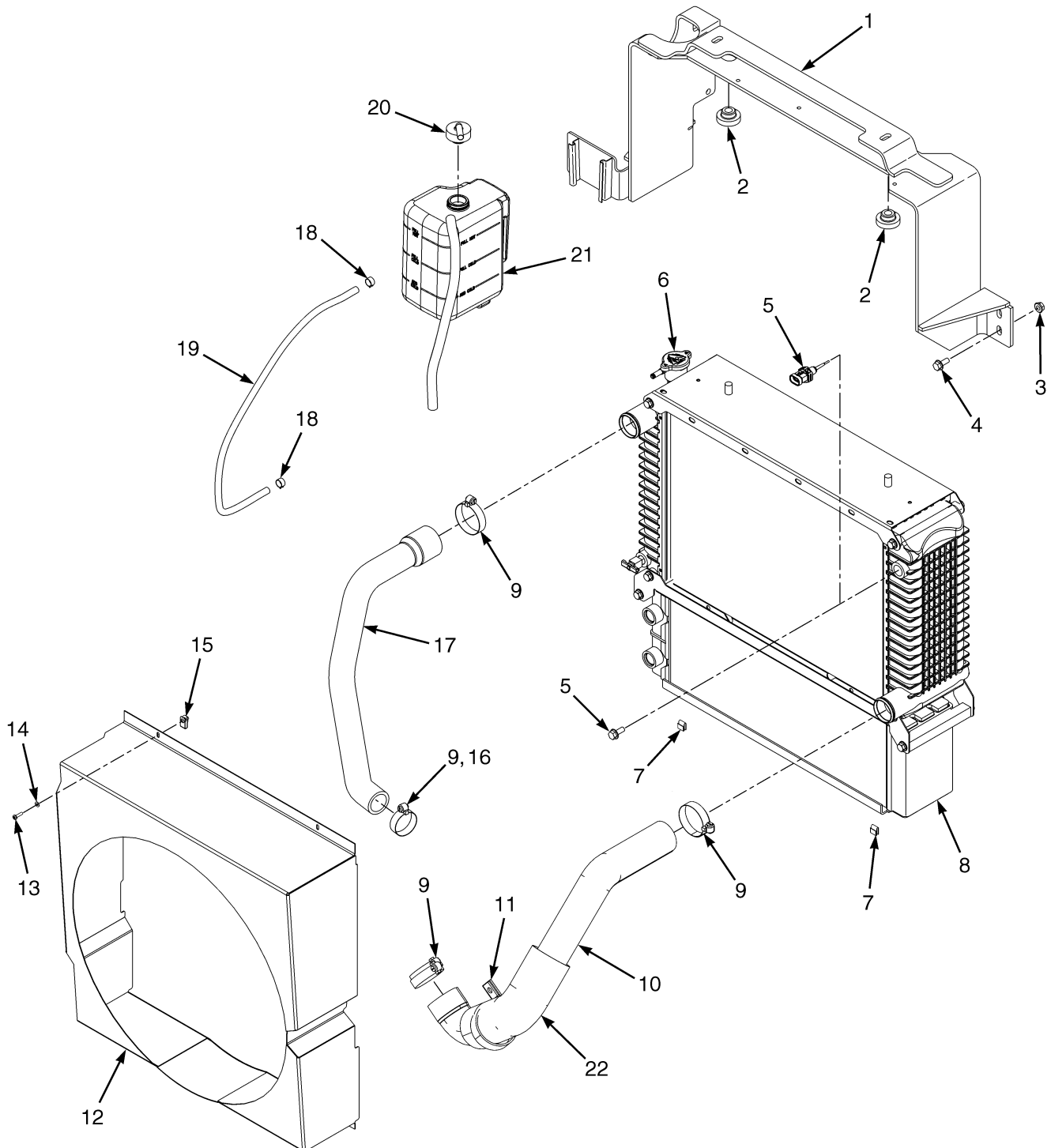
BP110048

EXHAUST SYSTEM
GM 4.3L GASOLINE AND LPG**KEY:****A: With Catalytic Converter****B: Without Catalytic Converter**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1611882	Tail Pipe	1	1
2	1351178	Cover	1	1
3	30370	Clamp	2	2
4	1510115	Capscrew	2	2
5	b 1528938	Washer	4	4
6	b 1528930	Mount	2	2
6	c 1709996	Isolator	4	4
7	b 1649471	Spacer	2	2
7	c 1708371	Spacer	2	2
8	1616249	Bracket	1	..
9	1460477	Nut	6	4
10	320158	Washer	2	2
11	1582222	Locknut	2	2
12	1657458	Exhaust Pipe	1	..
13	1402189	Gasket	2	2
14	1580027	Gasket	1	..
15	1683840	Exhaust Pipe	1	1
16	320159	Washer	6	6
17	1580136	Locknut	6	6
18	1580092	Stud	6	6
19	1580029	Gasket	2	2
19	4006052	Gasket (Alternate Part)	2	2
20	1611885	Exhaust Pipe	1	1
21	2098586	Catalytic Converter	1	..
21	4601152	Catalytic Converter (2010 Series)	1	..
22	1532585	Washer	1	2
23	1580028	Gasket	1	..
24	292683	Lockwasher	2	..
25	1469405	Nut	2	..
26	1639679	Exhaust Pipe	1	..
26	1657455	Exhaust Pipe	..	1
27	2078353	Muffler (Crimped)	1	1
27	a 2072202	Muffler (Welded)	1	1
28	1510117	Capscrew	3	3
29	4006802	Sensor (Oxygen) (2010 Series)	1	1
30	1557546	Oxygen Sensor (With Wire Harness) (2010 Series)	2	2

FOOTNOTES:**a** Optional**c** PENDING PER ECN 10460801 →**b** → PENDING PER ECN 10460801

COOLING SYSTEM (FIGURE 2-3) GM 4.3L GASOLINE AND LPG



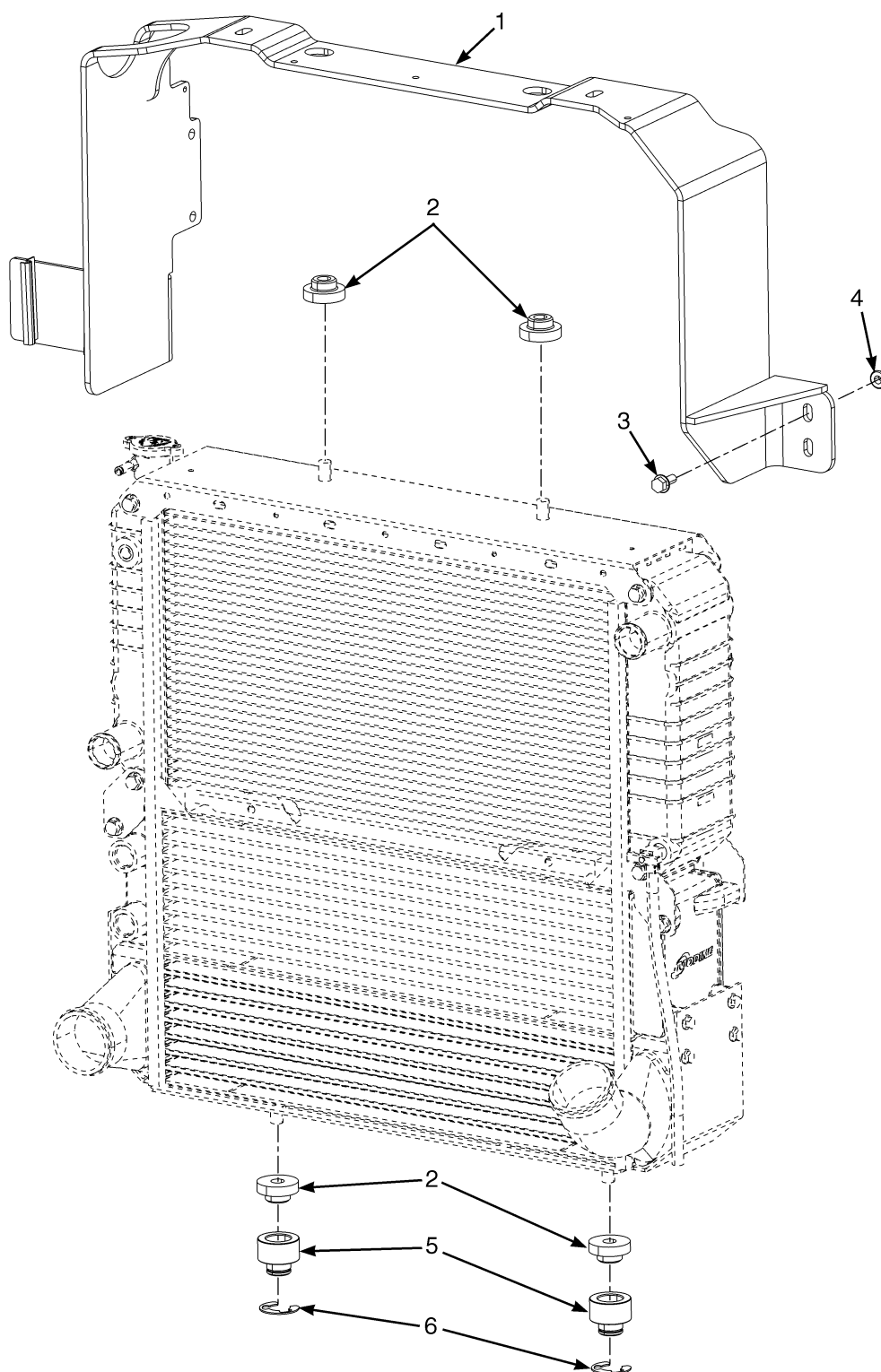
BP060058

COOLING SYSTEM
GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1668856	Support	1
2	1529787	Isolator	4
3	1502543	Nut (Flange)	4
4	1510113	Capscrew	4
5	1531404	Sensor (Low Coolant Level)	1
5	a 14385	Fitting	1
6	1352140	Radiator Cap	1
7	1551663	Clip	2
8	2066322	Radiator (Assembly)	1
8	1623821	Radiator	1
8	1623819	Oil Cooler	1
9	119236	Clamp	3
10	2096559	Radiator Hose (Lower)	1
11	385107	Clamp (Insulated)	1
12	1600414	Shroud	1
13	302023	Screw	2
14	320154	Washer	2
15	1535257	Nut	2
16	369804	Clamp	1
17	2078103	Radiator Hose (Upper)	1
18	369815	Clamp	2
19	1302955	Hose	1
20		Outlet Assembly	1
20	336550	Bushing	1
20	345454	Cap	1
20	339735	Hose	1
21	1643342	Reservoir	1
22	2100090	Cover	1

FOOTNOTES:**a** Without Low Coolant Sensor

RADIATOR MOUNTING (FIGURE 2-4) CUMMINS QSB 3.3L DIESEL

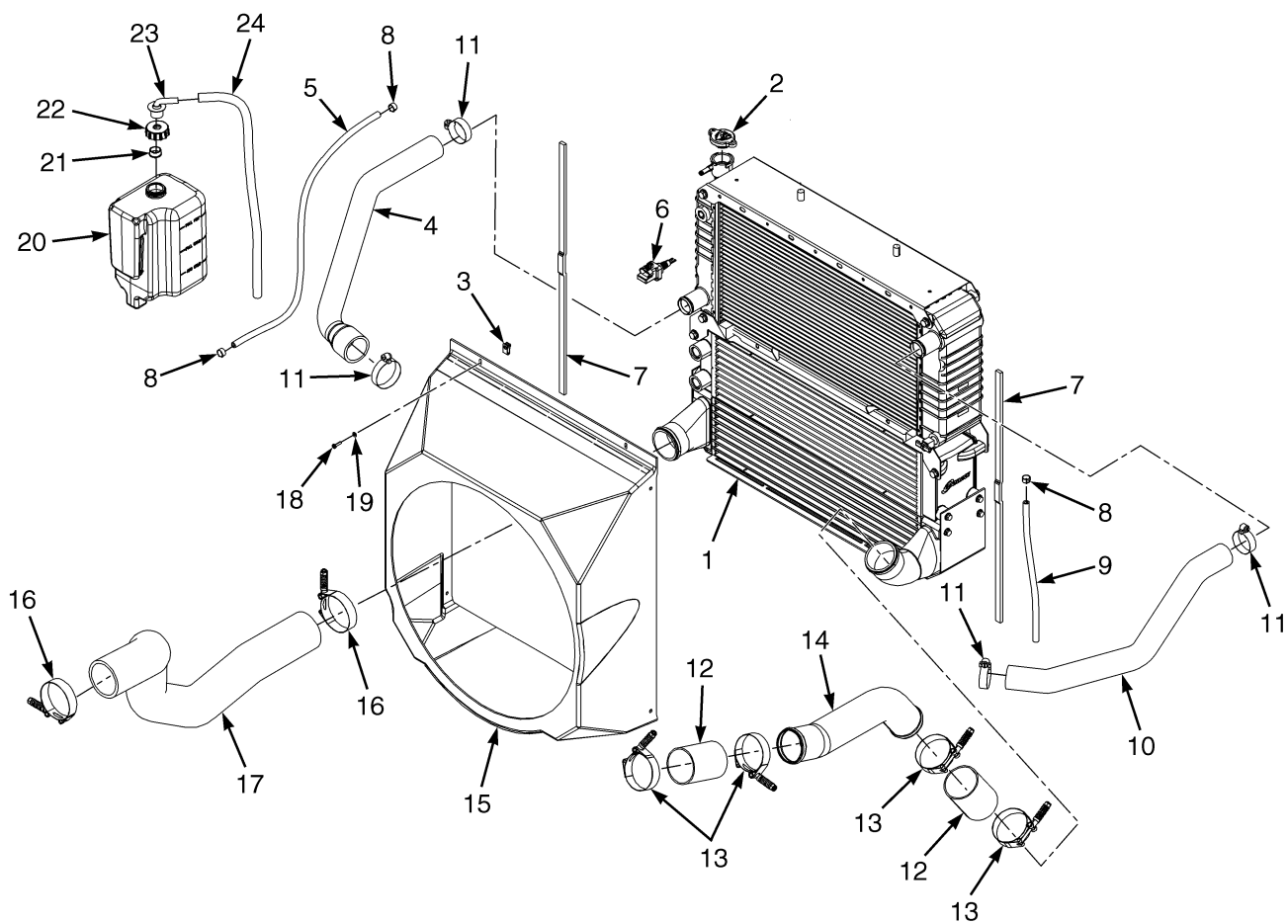


BP060060

**RADIATOR MOUNTING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1669428	Bracket Wldmt	1
2	1529787	Isolator	4
3	1527880	Capscrew	4
4	1502543	Nut (Flange)	4
5	1669439	Spacer	2
6	2076760	Retainer	2

COOLING (FIGURE 2-5) CUMMINS QSB 3.3L



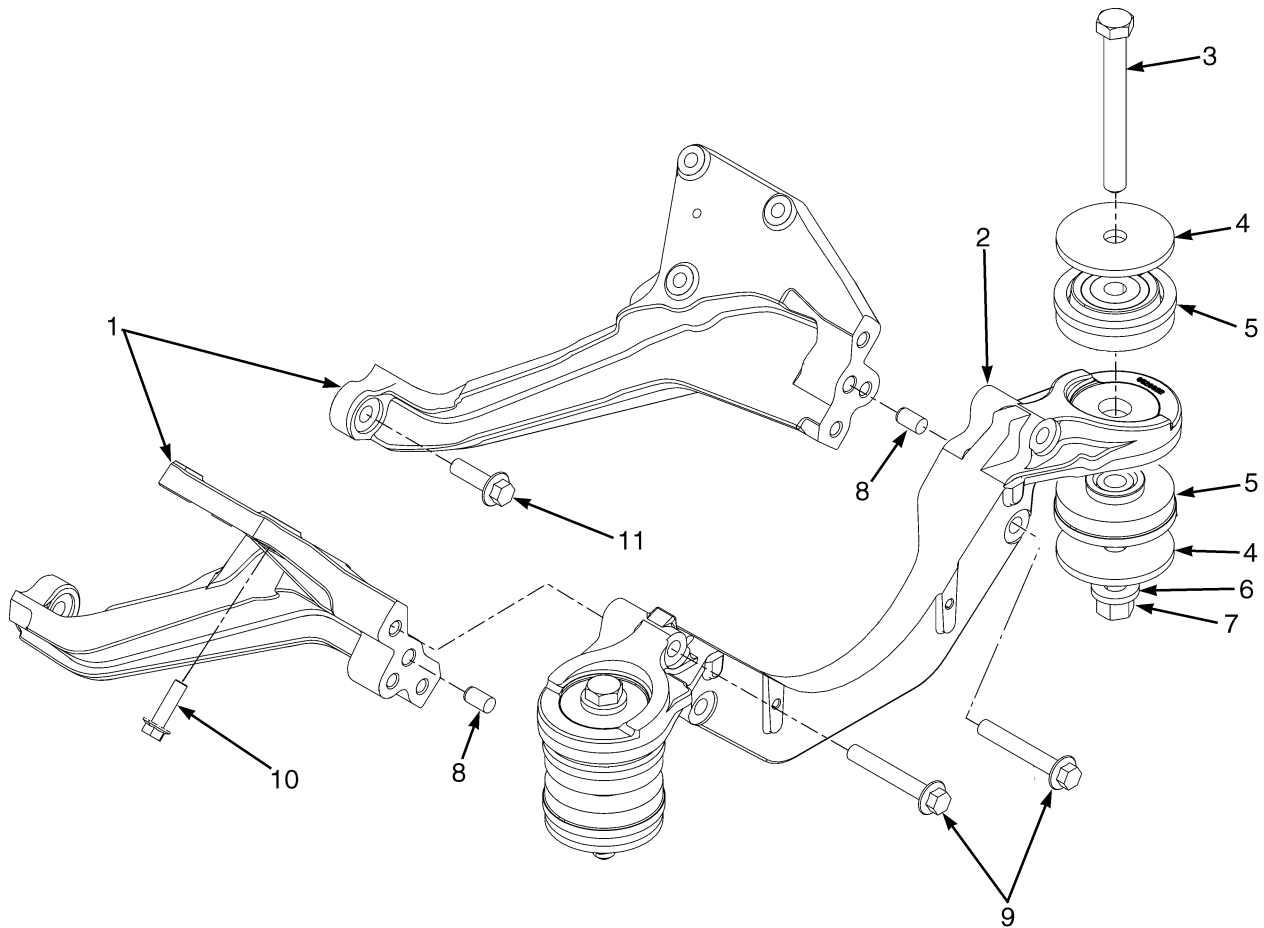
BP060061

COOLING
CUMMINS QSB 3.3L

ITEM	PART NO.	DESCRIPTION	QTY
1	2101482	Radiator	1
2	1352140	Radiator Cap	1
3	1535257	Nut	2
4	2099388	Radiator Hose (Lower)	..
5	1302955	Hose	1
6	1689881	Sensor	1
6	a 14385	Fitting (Without Coolant Sensor)	1
7	1677231	Seal	2
8	369815	Clamp	3
9	1359580	Hose	1
10	2099389	Radiator Hose (Upper)	1
11	119236	Clamp	4
12	1665700	Hose	2
13	1665556	Clamp	4
14	2101973	Tube	1
15	2101871	Shroud	1
16	1666557	Clamp	2
17	2100401	Hose	1
18	302023	Screw	2
19	197066	Washer	2
20	1643342	Reservoir	1
21	336550	Bushing	1
22	345454	Cap	1
23	345455	Outlet Assembly	1
24	1663877	Hose	1

FOOTNOTES:**a** Not Illustrated

ENGINE MOUNTING (FIGURE 2-6) GM 4.3L GASOLINE AND LPG

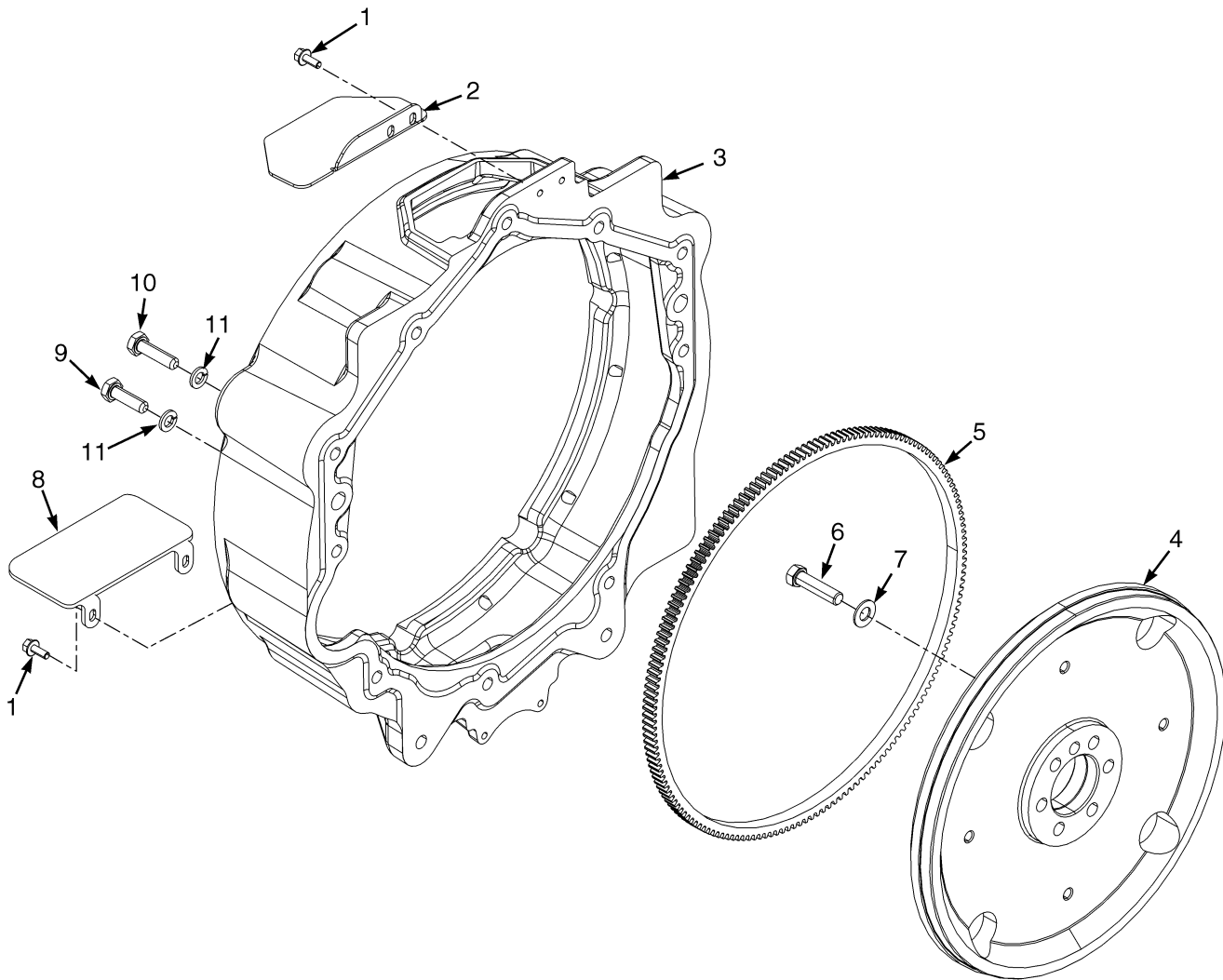


BP090325

ENGINE MOUNTING
GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1590397	Mount (LH)	1
1	1590399	Mount (RH)	1
2	1667636	Rubber Mount (Crossmember)	1
3	293699	Capscrew	2
4	1557737	Washer	4
5	2069951	Isolator	4
6	1504075	Washer	2
7	1565453	Nut (Flange)	2
8	303150	Dowel	2
9	1591666	Capscrew	6
10	1565195	Capscrew	6
11	1566853	Capscrew	2

FLYWHEEL AND HOUSING (FIGURE 2-7) GM 4.3L GASOLINE AND LPG

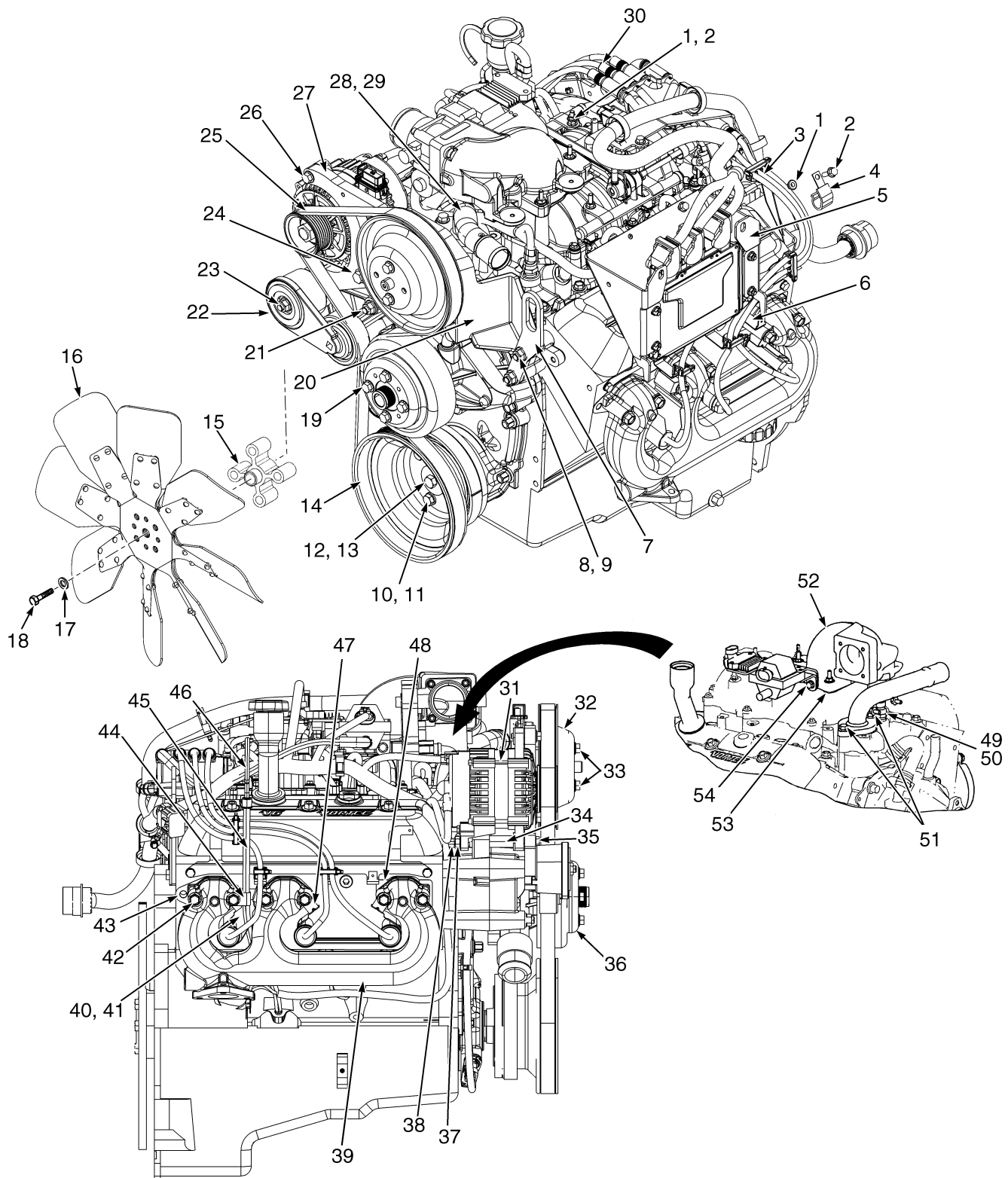


BP090324

**FLYWHEEL AND HOUSING
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	1527876	Capscrew	4
2	1602835	Cover	1
3	1594029	Housing	1
4	1636867	Flywheel	1
5	264749	Ring Gear	1
6	221539	Capscrew	6
7	221769	Washer	6
8	1602836	Cover Plate	1
9	1586629	Capscrew	12
10	292515	Capscrew	9
11	388049		
	292682	Lockwasher	9

ASSEMBLED ENGINE (FIGURE 2-8) GM 4.3L GASOLINE AND LPG — SHEET 1 OF 3



BP090229

ASSEMBLED ENGINE
GM 4.3L GASOLINE AND LPG – SHEET 1 OF 3

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	1514429	Nut	6
2	1527877	Capscrew	6
3		Spark Plug Wires (LH)	1
4	1628117	Clamp	2
5	1641371	Bracket	1
6	1564035	Bracket	2
7	1544212	Bracket	1
8	1460477	Nut	5
9	1578620	Stud	2
10	~~388049~~		
	292682	Lockwasher	3
11	16634	Capscrew	3
12	1305165	Washer	1
13	221544	Capscrew	1
14	1377750	Pulley	1
15	1453247	Spacer	1
16	2085641	Fan	1
17	296418	Washer	4
18	1566505	Capscrew	4
19	1527879	Capscrew	4
20	1583769	Fan Mount Assembly	1
21	1578617	Stud	2
22	2090303	Belt Tensioner	1
23	1578619	Stud	1
24	1527885	Capscrew	1
25	2090051	V-Belt (Serpentine 6 Rib Micro)	1
26	1528482	Capscrew	1
27	1636803	Bracket (Alternator)	1
28	1560200	Thermostat Housing	1
29	1569540	Thermostat (Bypass Type 197 Degree With Seal)	1
30		Spark Plug Wires (RH)	1
31	1534017	Alternator	1
32	2071579	Fan Pulley (Fan)	1
33	~~1529366~~		
	4011940	Capscrew	2
34	1554814	Spacer	1
35	1327647	Capscrew	1
36	2063017	Pulley (Water Pump)	1
37	320157	Washer	1
38	302400	Nut	1
39	1623917	Manifold (Exhaust)	2
40	1623895	Shield	2
41	1316487	Shield	1
42	1383257	Bolt	12

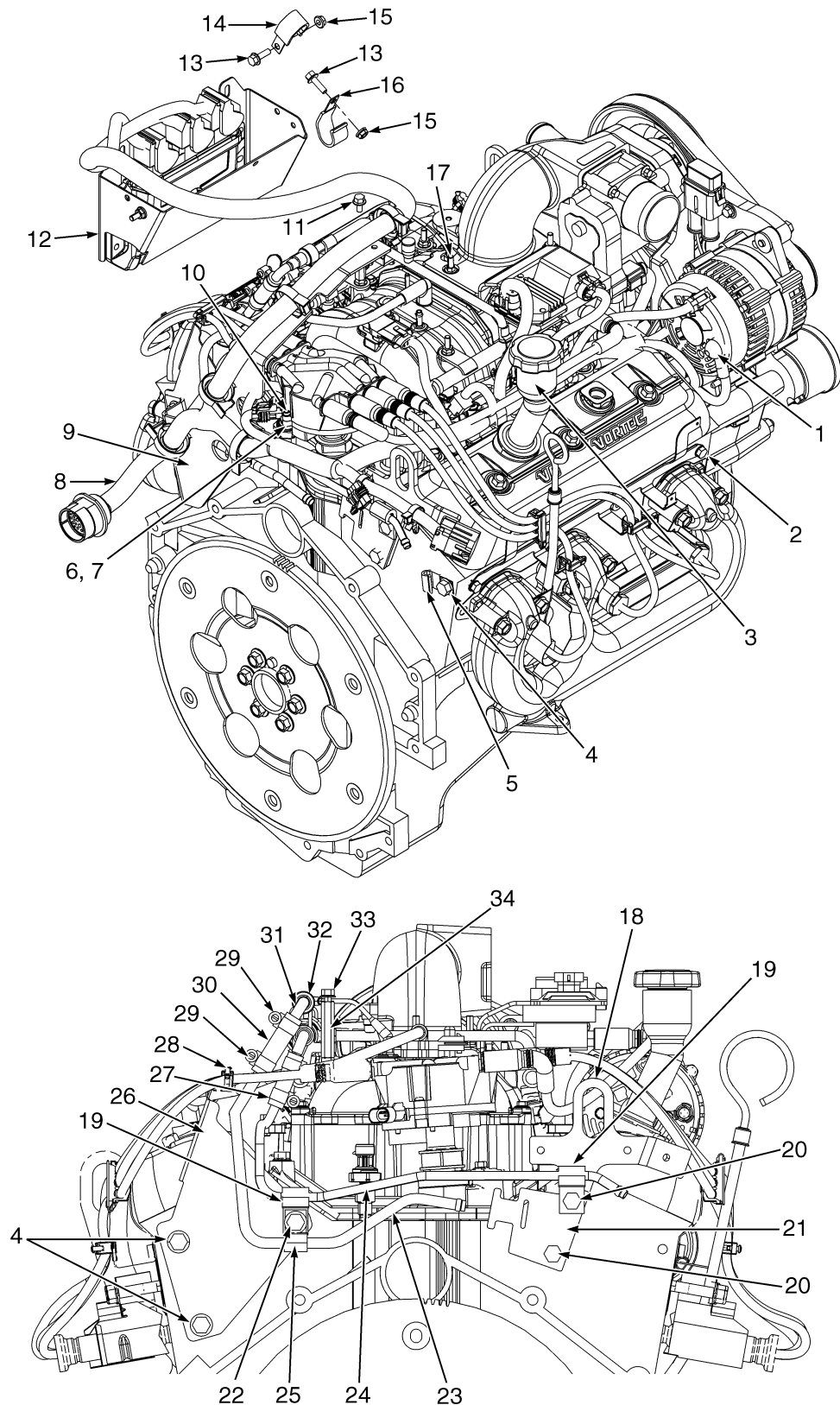
ASSEMBLED ENGINE GM 4.3L GASOLINE AND LPG – SHEET 1 OF 3

ITEM	PART NO.	DESCRIPTION	QTY
43	1539274	Gasket	2
44	133696	Clamp	1
45	1671271	Dipstick Tube	1
46	1676923	Dipstick	1
47	1316488	Shield	2
48	1539273	Gasket	2
49	1560255	Sensor (Coolant Temperature)	1
50	246108	Sealant	AR
51	1510113	Capscrew	2
52	1654872	Adapter (Gasoline)	1
52	1654871	Adapter (LPG)	1
52	1560193	Sleeve	2
53	2067592	Gasket	1
54	1527876	Capscrew	2
	2088997	Kit-Ignition Cable (Spark Plug Wires and Coil Wire)	1

NOTES

[illegible]

ASSEMBLED ENGINE (FIGURE 2-9) GM 4.3L GASOLINE AND LPG — SHEET 2 OF 3



BP090360

ASSEMBLED ENGINE
GM 4.3L GASOLINE AND LPG – SHEET 2 OF 3**KEY:****A: Gasoline****B: LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1649504	Engine Assy-Gas (2008 Series)	1	..
	1694587	Engine Assy-Gas (2009 Series)	1	..
	4004339	Engine Assy -Gas (2010 Series)	1	..
	1649334	Engine Assy-LPG (2008 Series)	..	1
	1694586	Engine Assy-LPG (2009 Series)	..	1
	4004338	Engine Assy -LPG (2010 Series)	..	1
1	1514429	Nut	1	1
2	392620	Screw	4	4
3	1552141	Filler Neck	1	1
4	1309993	Screw	4	4
5	385670	Clamp	2	2
6	1590201	Fitting	1	1
7	246108	Sealant	AR	AR
8	2093681	Wire Harness (Engine) (2008 - 2009 Series) (☞Figure 4-32).....	1	..
8	2093682	Wire Harness (Engine) (2008 - 2009 Series) (☞Figure 4-30).....	..	1
8	4601159	Wire Harness (Engine) (2010 Series) (☞Figure 4-33).....	1	..
8	4601160	Wire Harness (Engine) (2010 Series) (☞Figure 4-31).....	..	1
9	1636048	Bracket	1	1
10	1566654	Pressure Transducer Sensor (Oil Pressure)	1	1
11	1534417	Capscrew	3	3
12	2101429	Engine Control Module (2008-2009 Engine ECU)	..	1
12	2101430	Engine Control Module (2008-2009 Engine ECU)	1	..
12	4603426	Engine Control Module (2010 Series)	..	1
12	4603425	Engine Control Module (2010 Series)	1	..
13	1527877	Capscrew	6	6
14	1628117	Clamp	1	1
15	1514429	Nut	6	6
16	1628118	Clamp	2	2
17	1579136	Fitting	1	1
18	1636047	Bracket	1	1
19	198675	Clamp	2	..
20	174413	Screw	2	2
21	2080791	Bracket	1	..
22	1309993	Screw	1	1
23	2081136	Tube	1	..
24	1552840	Tube	1	..
25	164488	Clamp	1	..
26	1623860	Bracket	1	..
27	2062587	Hose	1	..
28	1564036	Retainer (Three Wire Clip)	1	1
29	168718	Clamp	4	..
30	2066137	Hose	1	..
31	1546285	Elbow (3/8 90 degree Elbow)	1	..
32	1543933	Fitting	1	..
33	1534417	Capscrew	5	5

ASSEMBLED ENGINE
GM 4.3L GASOLINE AND LPG – SHEET 2 OF 3**KEY:****A: Gasoline****B: LPG**

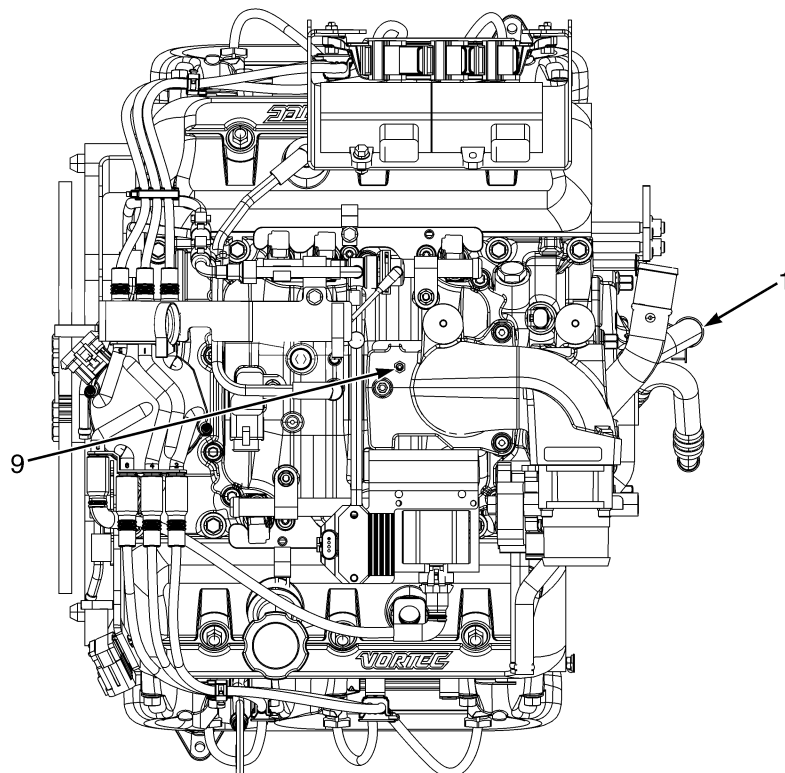
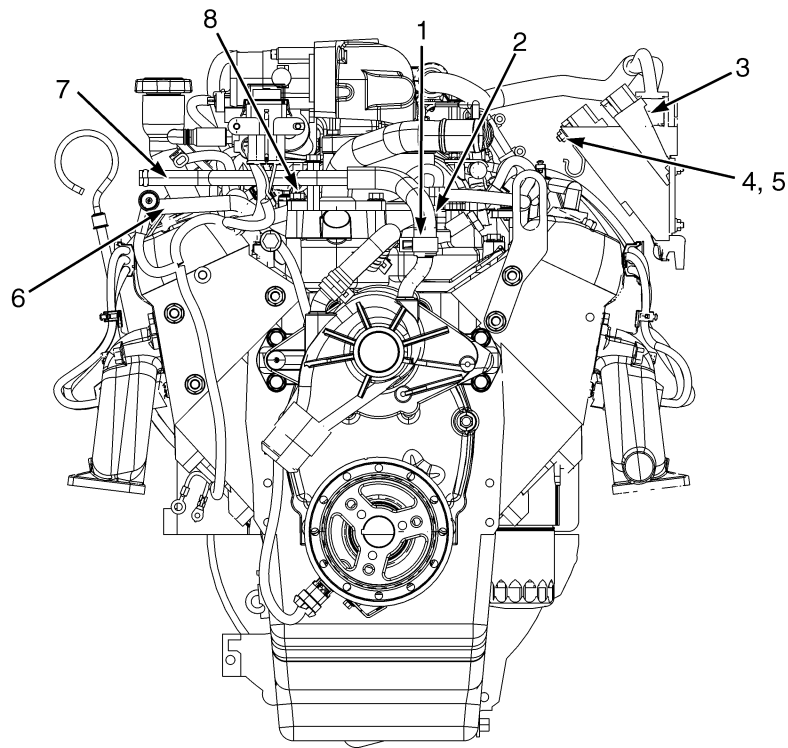
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
34	2081315	Adapter	1	1
	a 14387	Fitting	1	1

FOOTNOTES:**a** Not Illustrated

NOTES

[illegible]

ASSEMBLED ENGINE (FIGURE 2-10) GM 4.3L GASOLINE AND LPG — SHEET 3 OF 3



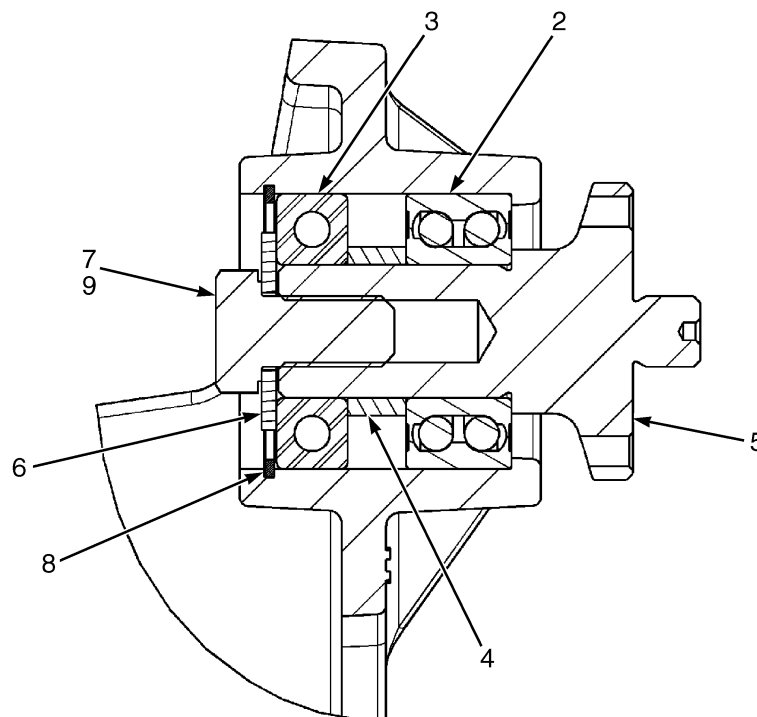
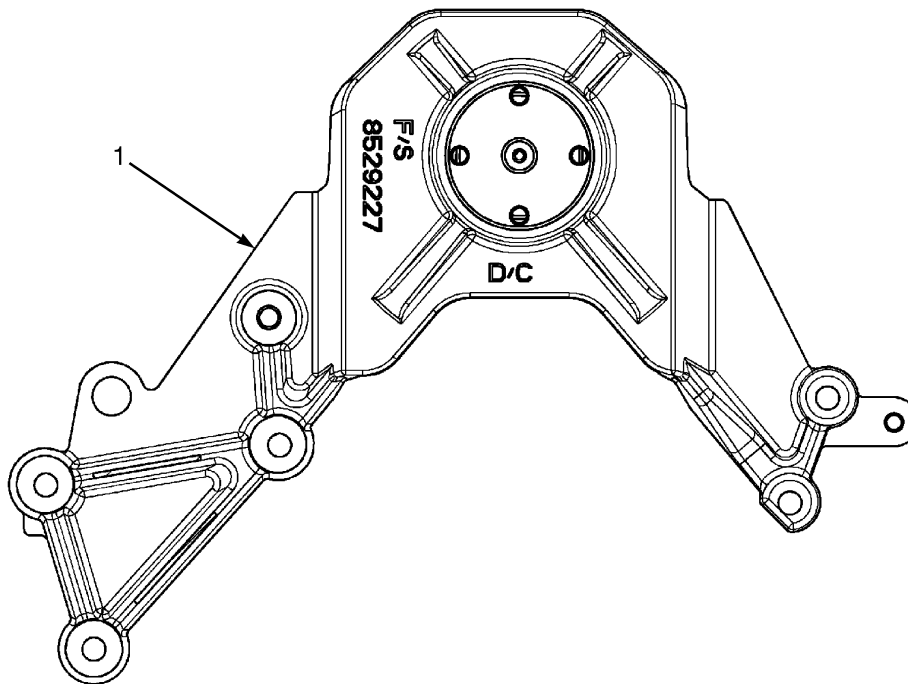
BP090363

ASSEMBLED ENGINE
GM 4.3L GASOLINE AND LPG – SHEET 3 OF 3

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	130845	Clamp	2
1	a 130845	Clamp	1
2	b 2076429	Hose	1
3	b 2082657	Module (Injector Driver)	2
4	1514429	Nut	6
5	1527877	Capscrew	6
6	b 1570597	Tube	1
7	b 1593913	Tube	1
8	b 1510116	Capscrew	1
9	b 1579136	Fitting	1

FOOTNOTES:**a** Gasoline Engine**b** LPG Engine

FAN MOUNT ASSEMBLY (FIGURE 2-11) GM 4.3L GASOLINE AND LPG

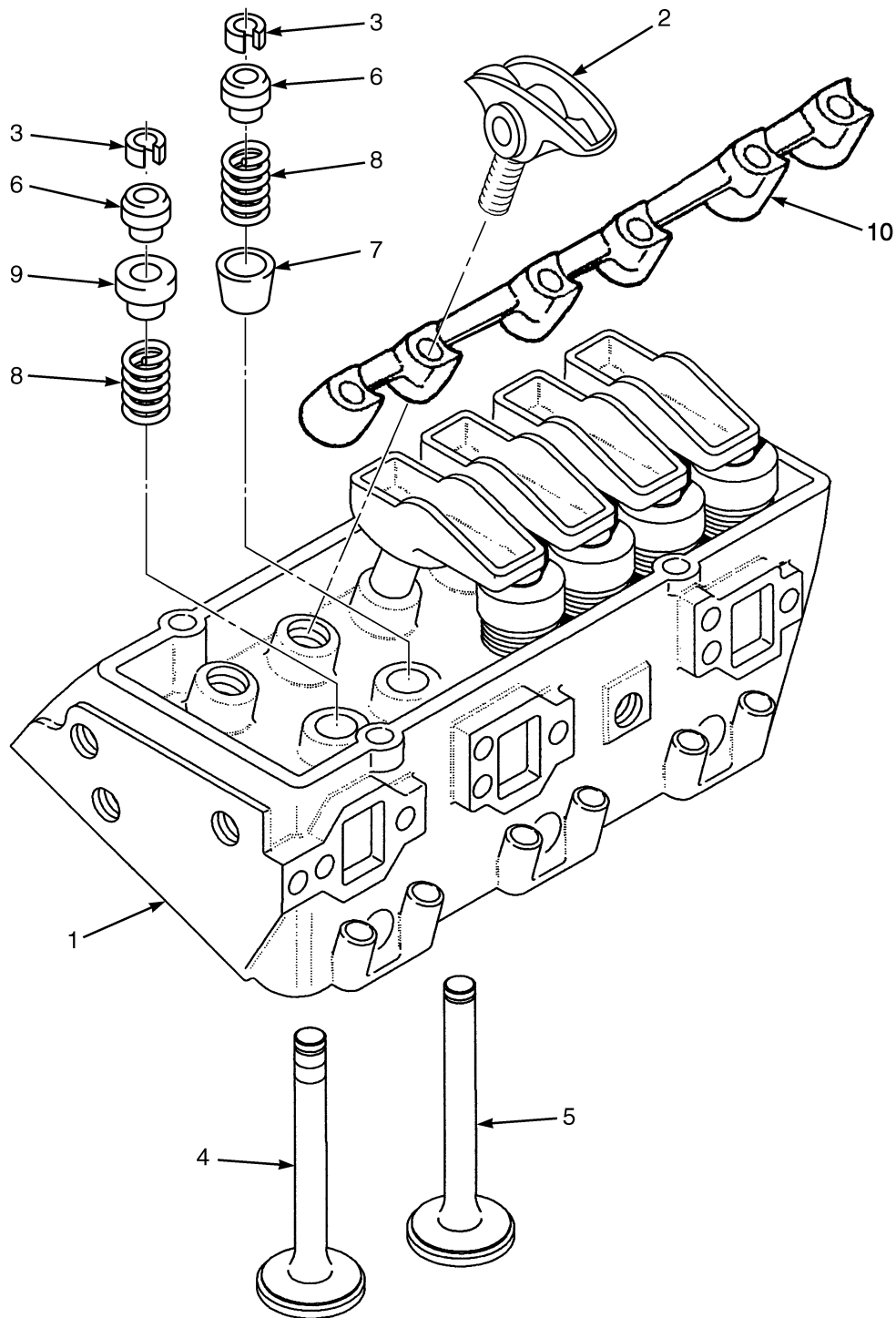


BP090311

**FAN MOUNT ASSEMBLY
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1583769	Fan Mount Assembly	1
1	1615817	Bracket	1
2	1615920	Ball Bearing	1
3	2014670	Bearing	1
4	1615818	Spacer	1
5	2083634	Shaft	1
6	15180	Washer	1
7	292559	Capscrew	1
8	12921	Snap Ring	1
9	360387	Loctite	AR

CYLINDER HEAD (FIGURE 2-12) GM 4.3L GASOLINE AND LPG

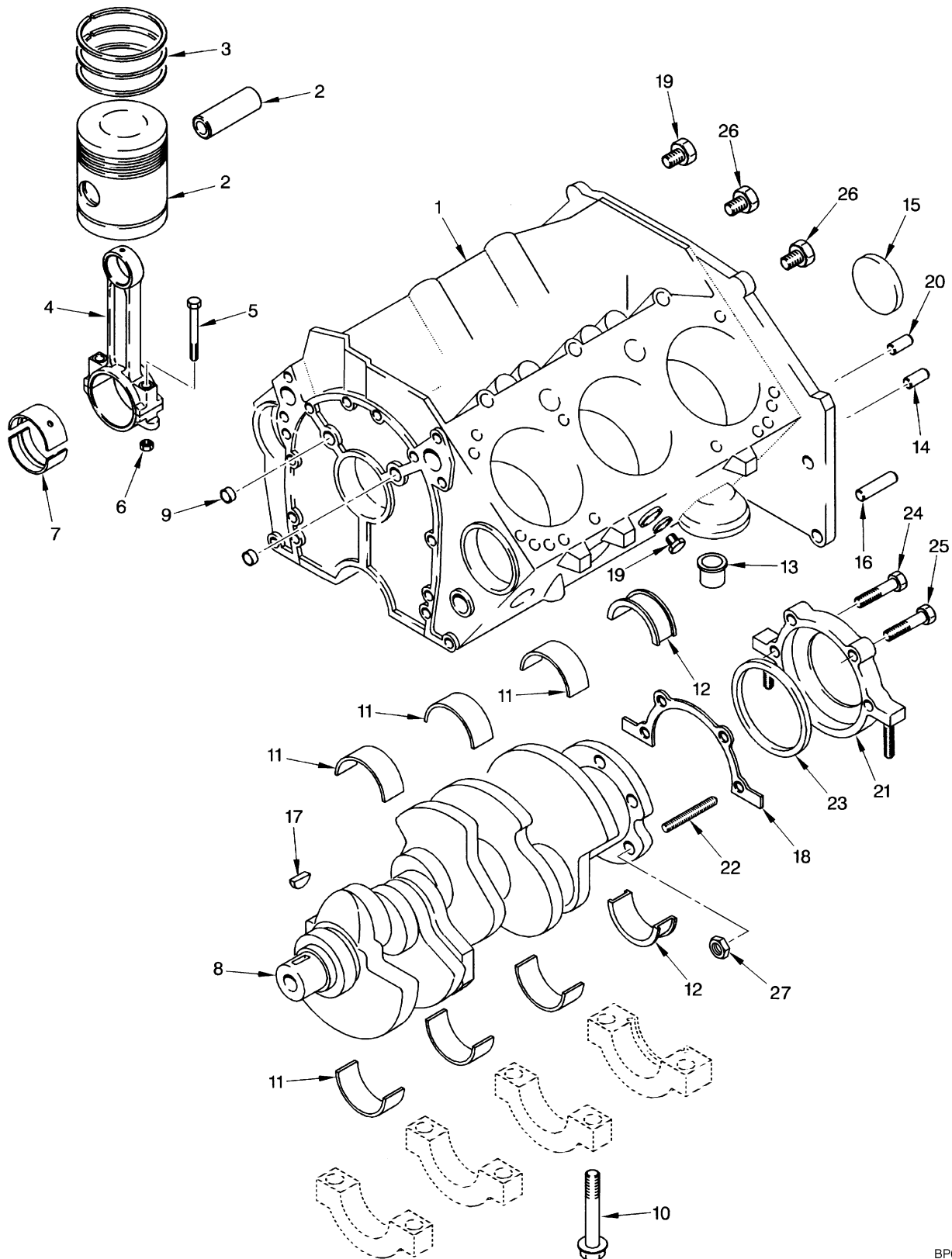


HP090254

**CYLINDER HEAD
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	1471557	Cylinder Head (Gasoline)	2
1	1653888	Cylinder Head (LPG)	2
2	1653887	Rocker Arm	12
2	1389051	Bolt	4
3	1377110	Valve Stop	24
4	1386194	Exhaust Valve (Gasoline)	6
4	1482701	Exhaust Valve (LPG)	6
5	1386195	Inlet Valve	6
6	1393127	Cap	12
7	1386197	Seal (Black) (Intake)	6
8	1386198	Spring (Gasoline)	12
8	1689026	Spring (LPG)	1
9	1460384	Seal (Orange) (Exhaust)	6
10	1489643	Support (Rocker Arm)	2

CYLINDER BLOCK (FIGURE 2-13) GM 4.3L GASOLINE AND LPG

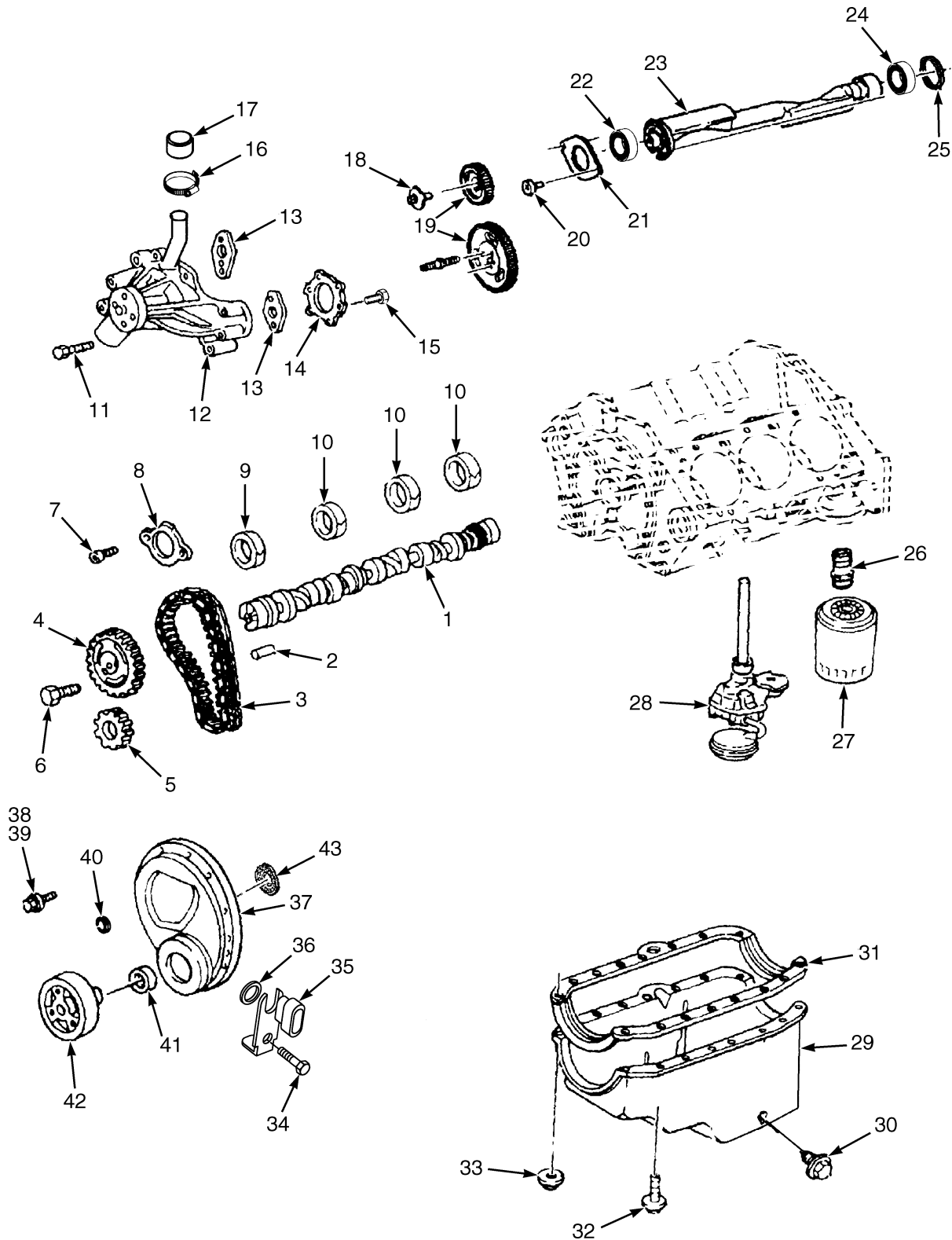


BP090113

CYLINDER BLOCK
GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1		Short Block Assembly	1
2	1390759	Kit-Piston (Standard)	6
2	1390760	Kit-Piston (0.020 O/S)	6
2	1627183	Kit-Piston (0.005 in O/S)	6
3	1390761	Kit-Piston Ring (Standard)	6
3	1390765	Kit-Piston Ring (0.020 O/S)	6
4	1360179	Piston Rod	6
5	1360182	Bolt	2
6	1330450	Nut	2
7	1390770	Piston Rod Bearing (Connecting Rod)	6
8	1460386	Crankshaft	1
9	388302	Plug (RH)	3
10	263842	Bolt	10
11	1558807	Kit-Crankshaft Bearing (Standard)	3
11	1460738	Kit-Crankshaft Bearing (0.020 in. O/S)	3
12	1309839	Bearing Set (0.010 in. O/S)	1
13	1514968	Valve	1
14	159977	Pin	4
15	1374313	Plug	1
16	1335499	Pin	2
17	1451319	Key	1
18	1500884	Gasket	1
19	1514267	Plug	2
20	375601	Pin (CR/SKF RR Seal Retainer)	1
21	1460330	Retainer	1
22	1450555	Stud	2
23	1460331	Seal	1
24	375575	Bolt	1
25	375602	Bolt	1
26	1331341	Plug	4
27	388313	Nut	1

CAMSHAFT AND OIL PAN (FIGURE 2-14) GM 4.3L GASOLINE AND LPG



BP090277

**CAMSHAFT AND OIL PAN
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	1627196	Camshaft	1
2	1374297	Pin	1
3	1683675	Kit-Repair Cable Chain (Timing Chain)	1
3		Timing Chain	1
4		Sprocket	1
5		Sprocket	1
6	1374301	Bolt	3
7	1374299	Bolt	2
8	1374298	Retainer	1
9	1454955	Bearing	2
10	1454957	Bearing	1
11	1383257	Bolt	4
12	1683678	Water Pump	1
13	1683677	Gasket	1
14	1460322	Gasket	1
15	1374108	Bolt	10
16	130845	Clamp	1
17	1383263	Cap	1
18	1374317	Bolt	6
19	1374315	Kit-Gear (Balancer)	1
20	1339963	Bolt	2
21	1374326	Retainer	1
22	1374314	Bearing	1
23	1377107	Shaft	1
24	1451321	Bearing	1
25	1374313	Plug	2
26	375587	Fitting	1
27	1320000	Oil Filter	1
28	1386176	Engine Oil Pump	1
29	1683746	Oil Pan	1
30	1460757	Screw	1
30	1460758	Gasket	1
31	1683744	Gasket	1
32	1386183	Bolt	10
33	1360178	Nut	1
34	1514965	Bolt	1
35	1683747	Sensor (Crankshaft Position)	1
36	1514964	O-Ring	1
37	1683720	Engine Cover (Front Cover)	1
37	1654480	Bracket	1
37	1654481	Shoe	1
38	1386179	Bolt	4
39	1377103	Bolt	2
40	1389092	Grommet	6

CAMSHAFT AND OIL PAN GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
41	1374107	Seal	1
42	1627199	Damper	1
43	1514962	Ring (Crankshaft Position Sensor)	1
43	4004594	Ring (Crankshaft Position Sensor) (Alternate Part)	1
	a 1683721	Pin	2
	a 1683722	Gasket (Engine Front Cover)	1

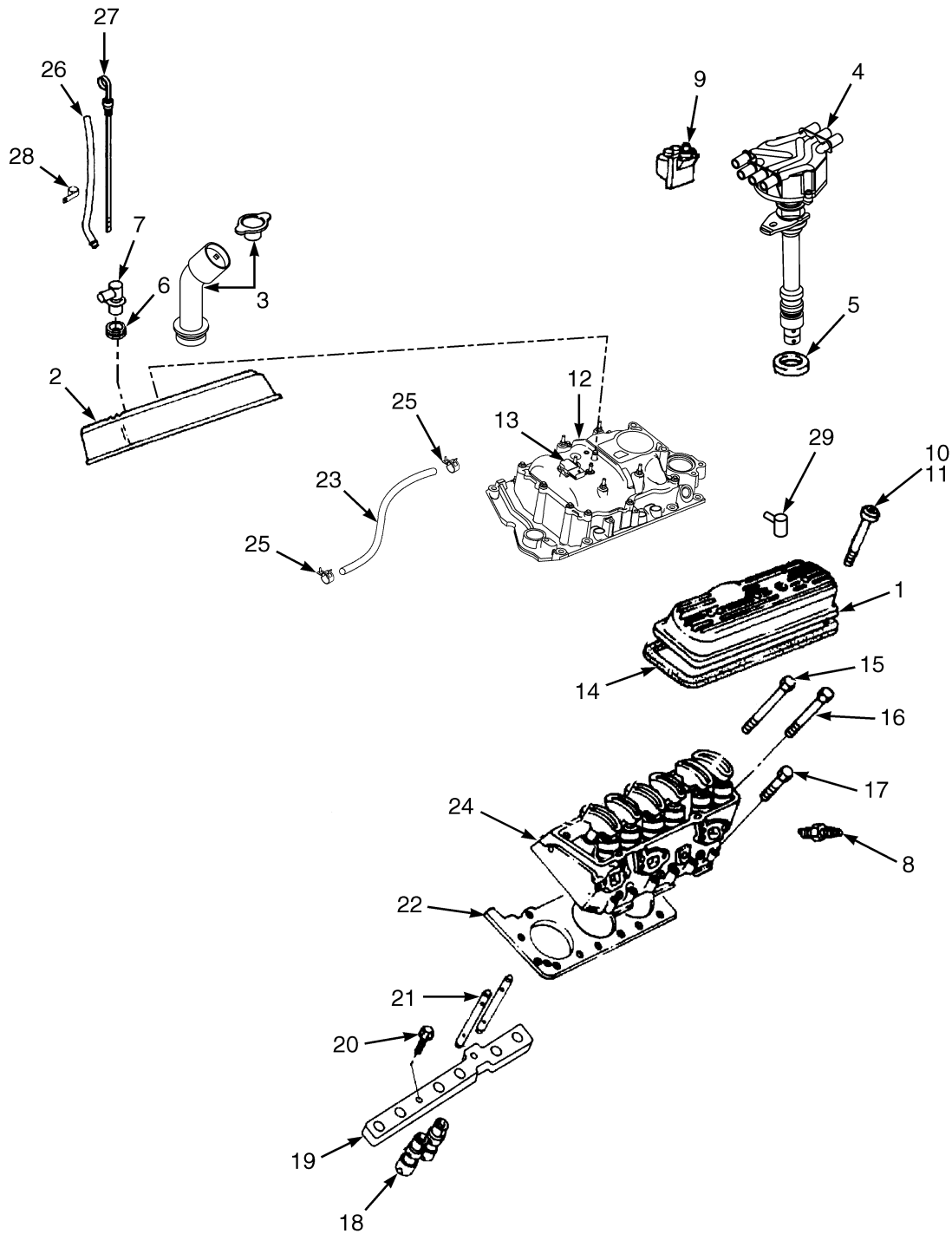
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

VALVE COVER AND INLET MANIFOLD (FIGURE 2-15) GM 4.3L GASOLINE AND LPG

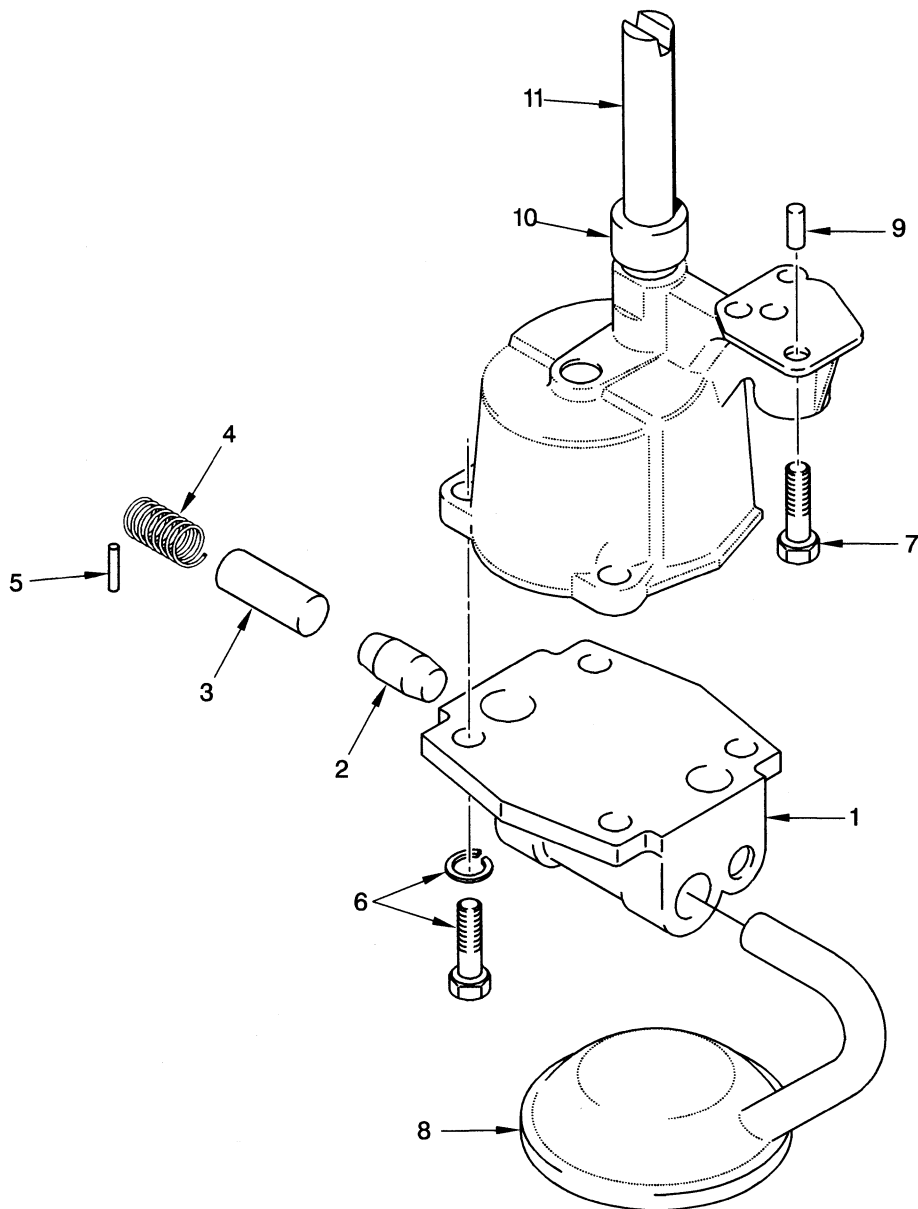


BP090414

**VALVE COVER AND INLET MANIFOLD
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
1	1597705	Cover (LH)	1
2	1389102	Cover (RH)	1
3	1552141	Filler Neck	1
3	1374290	Cap	1
3	1683749	Cap	1
4	1559695	Distributor Assembly	1
5	1334423	Gasket	1
6	1374288	Grommet	3
7	379407	Fitting	1
8	1641492	Spark Plug	6
9	1564670	Ignition Coil Assembly	1
10	1383904	Grommet	6
11	1374289	Bolt	6
12	1684098	Manifold Assy	1
12	1684085	Intake Manifold (Lower)	1
12	1684099	Intake Manifold (Upper)	1
12	1389093	Bolt	8
12	1559570	Gasket	1
13	1559567	Sensor (Temperature manifold absolute pressure)	1
14	1374293	Gasket	2
15	a 1377792	Bolt (Long)	10
16	a 1377793	Bolt (Medium)	4
17	a 1377794	Bolt (Short)	12
18	1471559	Valve Lifter	12
19	1389050	Guide	2
20	1389051	Bolt	2
21	1386189	Push Rod	12
22	1386190	Cylinder Head Gasket	1
23	1627354	Hose Assy	1
24	1471557	Cylinder Head (Gasoline)	1
24	1653888	Cylinder Head (LPG)	1
25	1471560	Clamp	2
26	1671271	Dipstick Tube	1
27	1676923	Dipstick	1
28	133696	Clamp	1
29	1600925	Fitting (90 Degree)	1
	1386187	Kit-Gasket (The kit includes two intake manifold gaskets) (Intake Manifold)	1

FOOTNOTES:**a** Quantity is listed for both heads

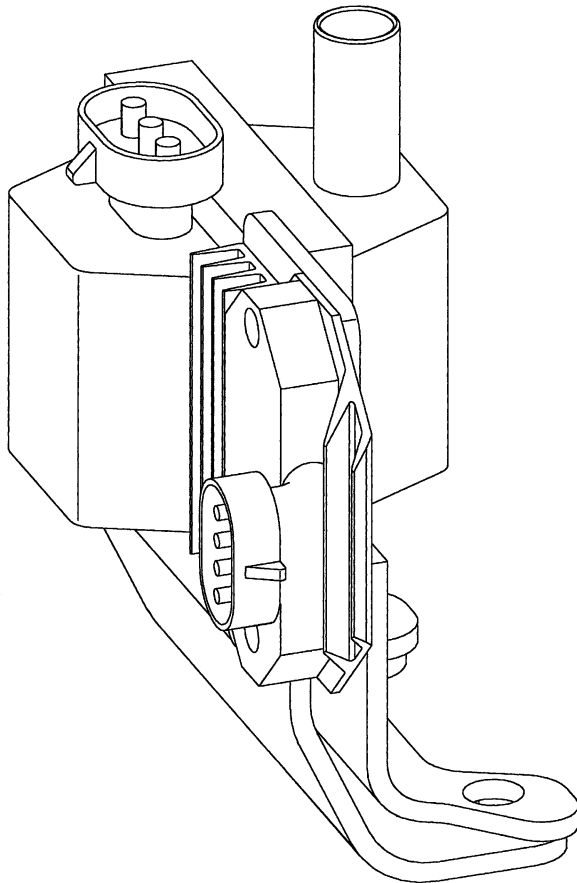
OIL PUMP (FIGURE 2-16)
GM 4.3L GASOLINE AND LPG

HP090044

OIL PUMP
GM 4.3L GASOLINE AND LPG

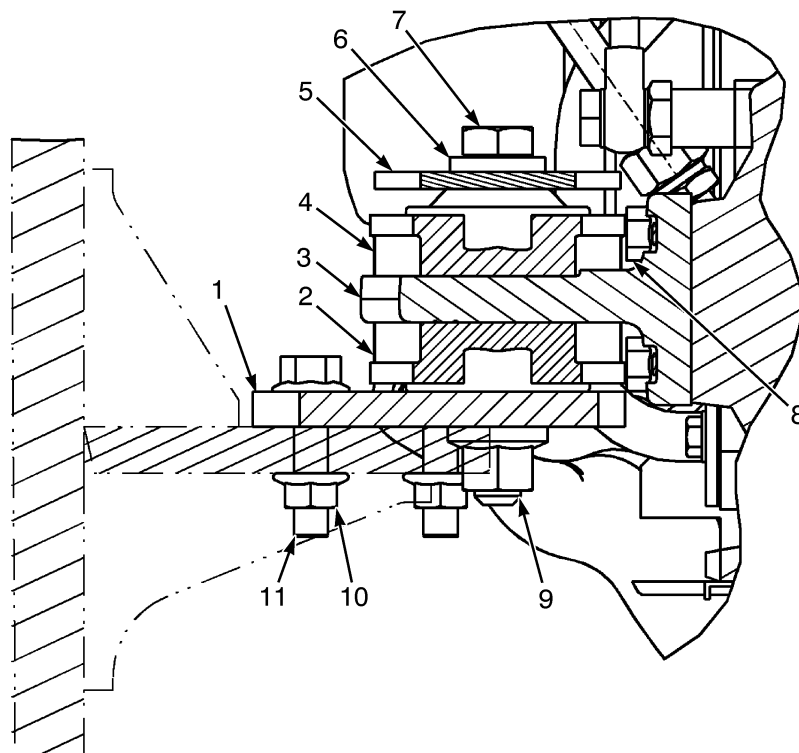
ITEM	PART NO.	DESCRIPTION	QTY
	1649504	Engine Assy-Gas (2008 Series)	1
	1694587	Engine Assy-Gas (2009 Series)	1
	4004339	Engine Assy -Gas (2010 Series)	1
	1649334	Engine Assy-LPG (2008 Series)	1
	1694586	Engine Assy-LPG (2009 Series)	1
	4004338	Engine Assy -LPG (2010 Series)	1
	1386176	Engine Oil Pump	1
1	1374319	Cover	1
2	1338223	Stop	1
3	268573	Regulator Valve	1
4	1374320	Spring	1
5	1330453	Pin	1
6	1333541	Kit-Screw	2
7	388306	Bolt	1
8	1386177	Screen	1
9	1450941	Pin	2
10	263795	Retainer	1
11	263794	Shaft	1

COIL ASSEMBLY (FIGURE 2-17) GM 4.3L GASOLINE AND LPG



BP090140

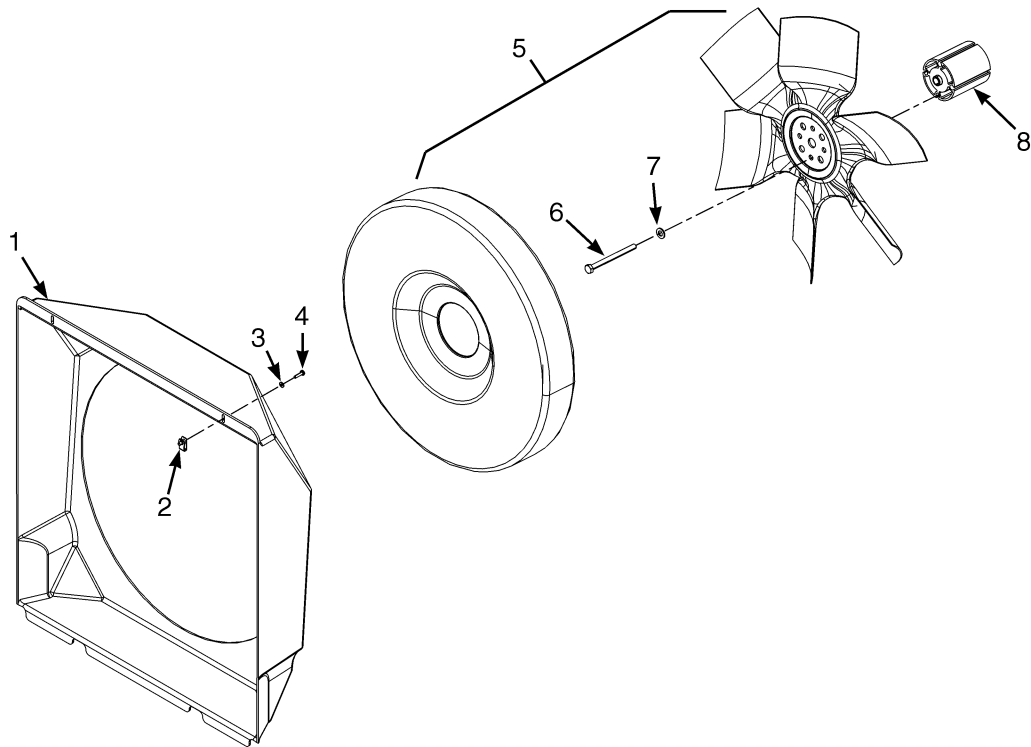
ITEM	PART NO.	DESCRIPTION	QTY
	1564670	Ignition Coil Assembly	1
	1578517	Bracket	1
	1371237	Bolt	4
	1578518	Module	1
	1578519	Heatsink	1
	1578520	Screw	2
	1578521	Ignition Coil	1
	1374323	Nut	1
	1578522	Bracket	1

ENGINE MOUNTING (FIGURE 2-18)
CUMMINS QSB 3.3L DIESEL

BP090391

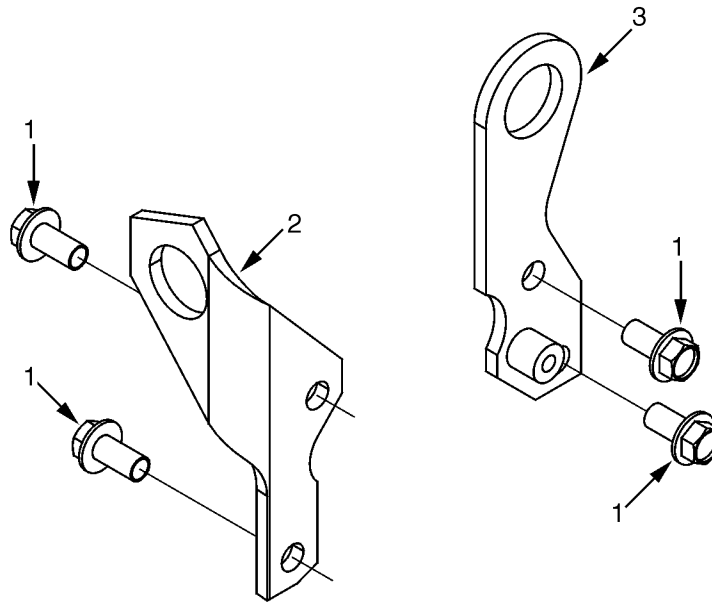
ITEM	PART NO.	DESCRIPTION	QTY
	2096896	Engine Assy-Diesel	1
1	1696332	Mounting Plate (LH)	1
1	1696333	Mounting Plate (RH)	1
2	2069951	Isolator	2
3	1663183	Motor Mount	2
4	2069951	Isolator	2
5	1557737	Washer	2
6	1504075	Washer	2
7	293697	Capscrew	2
8	1663739	Bolt	8
9	1565453	Nut (Flange)	2
10	1528888	Nut (Shoulder)	6
11	1665557	Capscrew	6

FAN ASSEMBLY (FIGURE 2-19) CUMMINS QSB 3.3L DIESEL



BP060057

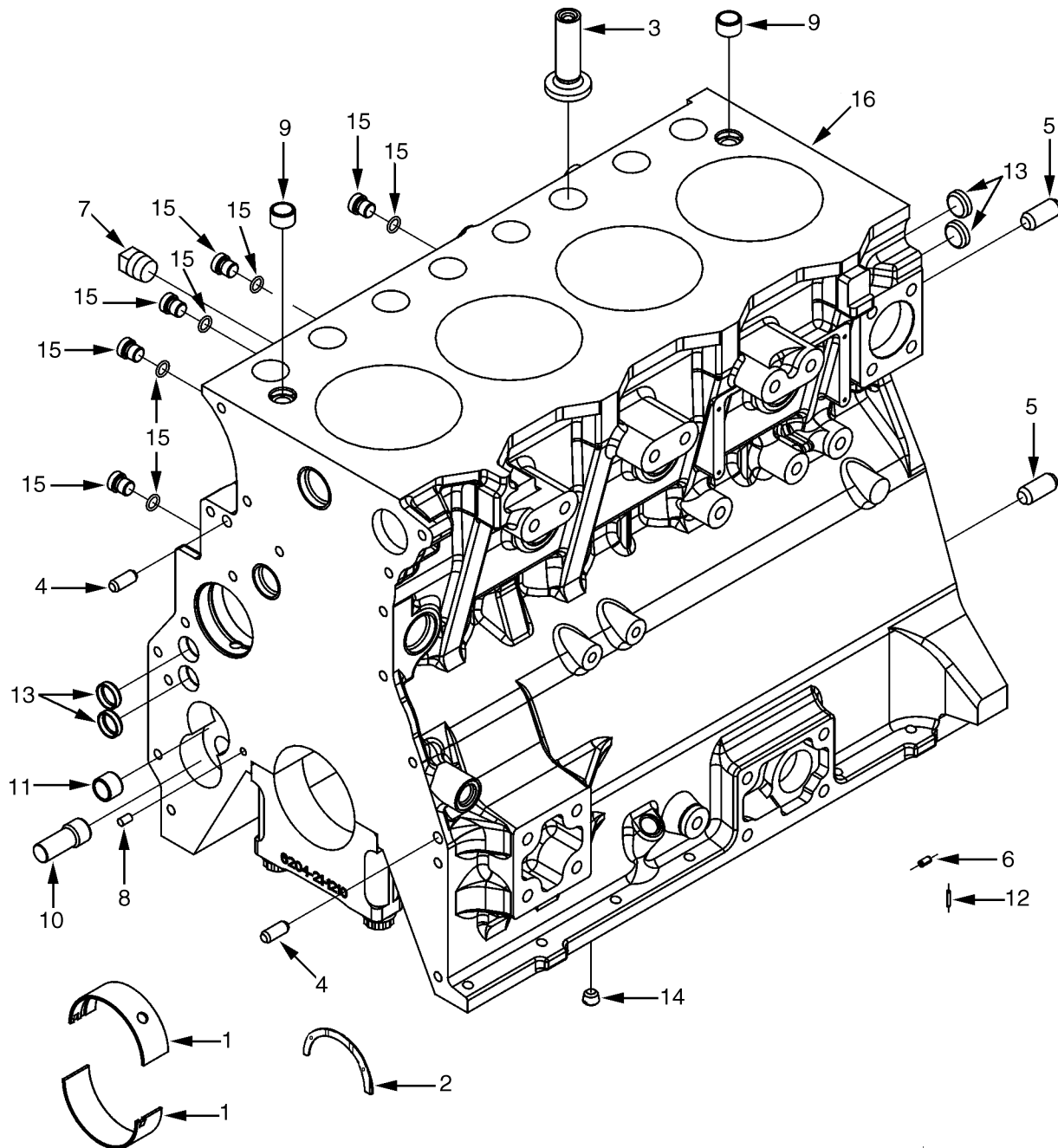
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	2101871	Shroud	1
2	1535257	Nut	2
3	197066	Washer	2
4	302023	Screw	2
5	2099479	Fan	1
6	136750	Capscrew	4
7	296418	Washer	4
8	1668639	Spacer	1

LIFTING BRACKET (FIGURE 2-20)
CUMMINS QSB 3.3L DIESEL

BP090402

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691825	Capscrew	4
2	1691679	Bracket	1
3	1696967	Bracket	1

CYLINDER BLOCK (FIGURE 2-21) CUMMINS QSB 3.3L DIESEL

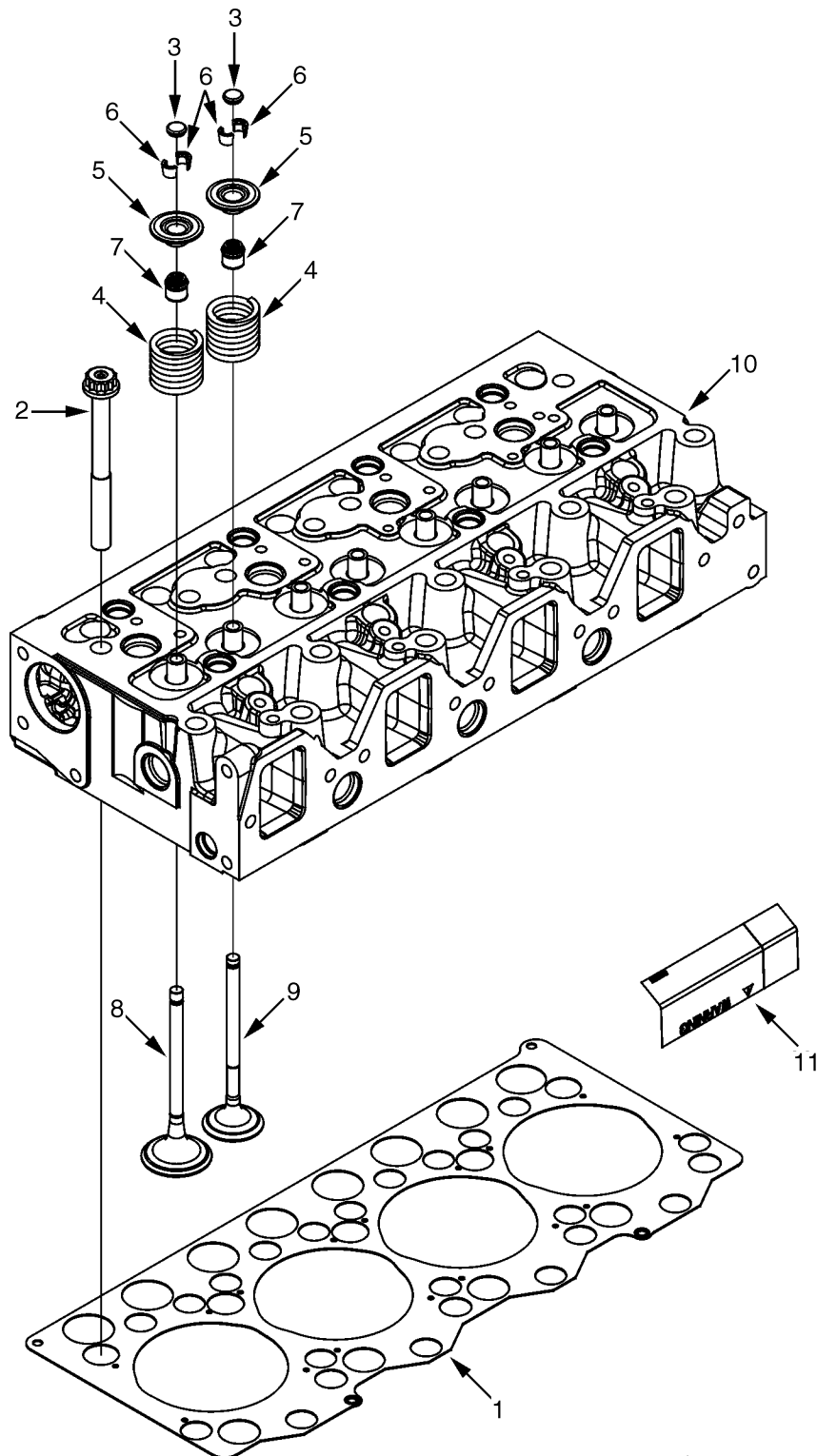


BP090292

**CYLINDER BLOCK
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1693601	Kit-Bearing	5
2		Thrust Bearing	3
3	1691581	Valve Tappet	8
4	1691583	Dowel Pin	2
5	1691584	Dowel Pin	2
6	1691586	Dowel Pin	6
7	1691587	Plug	1
8	1691588	Dowel	1
9	1691589	Dowel	2
10		Shaft (Lube Oil Pump)	1
11		Bushing	1
12	1691592	Dowel	4
13	1691593	Plug	4
14	1691594	Plug	1
15	1517010	Plug Assembly	5
15	1517011	O-Ring	1
16		Cylinder Block	1

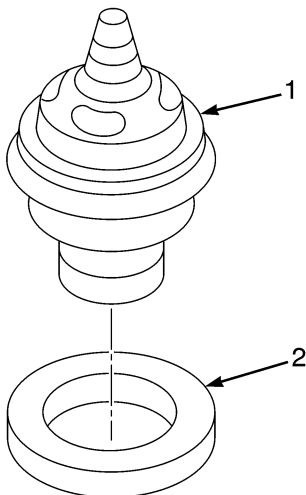
CYLINDER HEAD (FIGURE 2-22) CUMMINS QSB 3.3L DIESEL



BP090394

**CYLINDER HEAD
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691897	Cylinder Head Gasket	1
2	1691898	Capscrew	17
3	1691899	Cap	8
4	1691901	Spring	8
5	1691902	Retainer	8
6	1691903	Valve (Collet)	16
7	1691904	Seal (Valve Stem)	8
8	1691905	Inlet Valve	4
9	1691906	Exhaust Valve	4
10		Cylinder Head	1
11	1707215	Label	2
	1691913	Kit-Cylinder Head	1

THERMOSTAT (FIGURE 2-23)
CUMMINS QSB 3.3L DIESEL

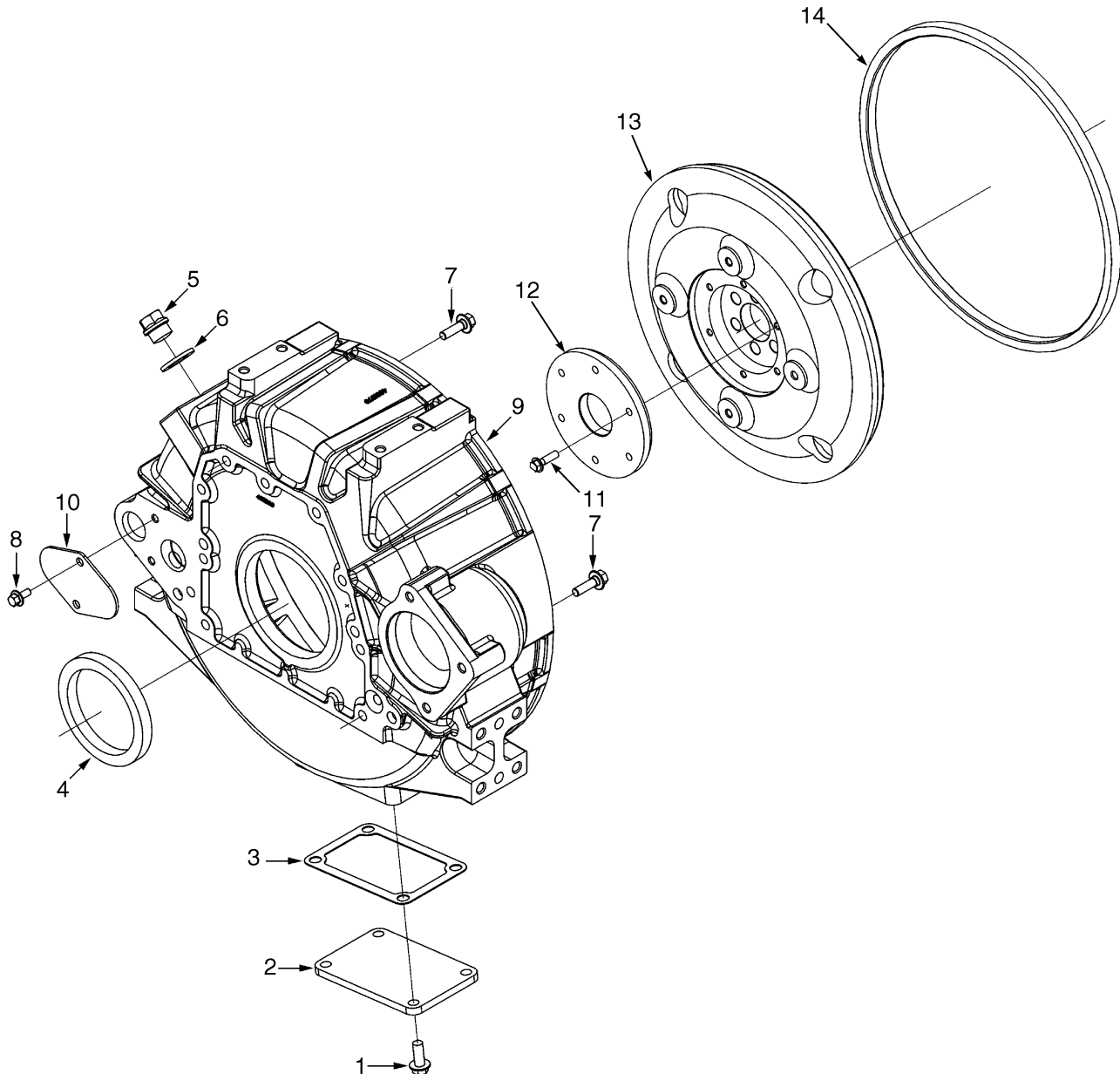
BP090406

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691627	Kit-Thermostat	1
2	1691629	Gasket	1

NOTES

[illegible]

FLYWHEEL AND HOUSING (FIGURE 2-24) CUMMINS QSB 3.3L DIESEL

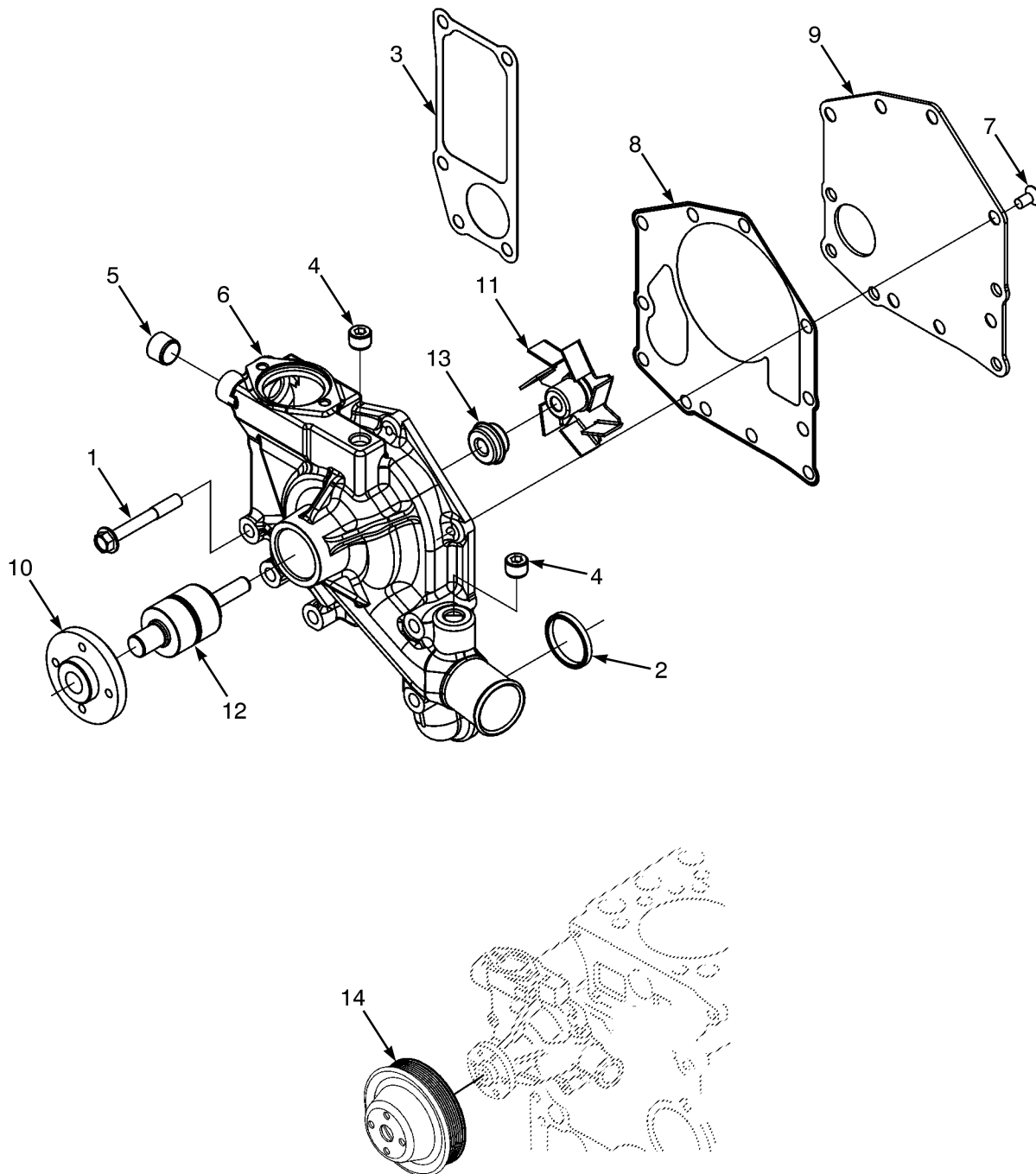


BP090157

**FLYWHEEL AND HOUSING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691660	Capscrew	4
2	1691661	Cover Plate	1
3	1691662	Gasket	1
4	1691663	Oil Seal	1
5	1691864	Plug	1
6	1691867	Washer	1
7	1543337	Capscrew	11
8	1511970	Capscrew	2
9	1691667	Flywheel Housing	1
10	1691668	Cover Plate	1
11	1691633	Capscrew	6
12	1691681	Adapter	1
13	1691682	Flywheel	1
14	1639725	Ring Gear	1
15	1691678	Capscrew	6
16	1691807	Washer	6

WATER PUMP AND PULLEY (FIGURE 2-25) CUMMINS QSB 3.3L DIESEL



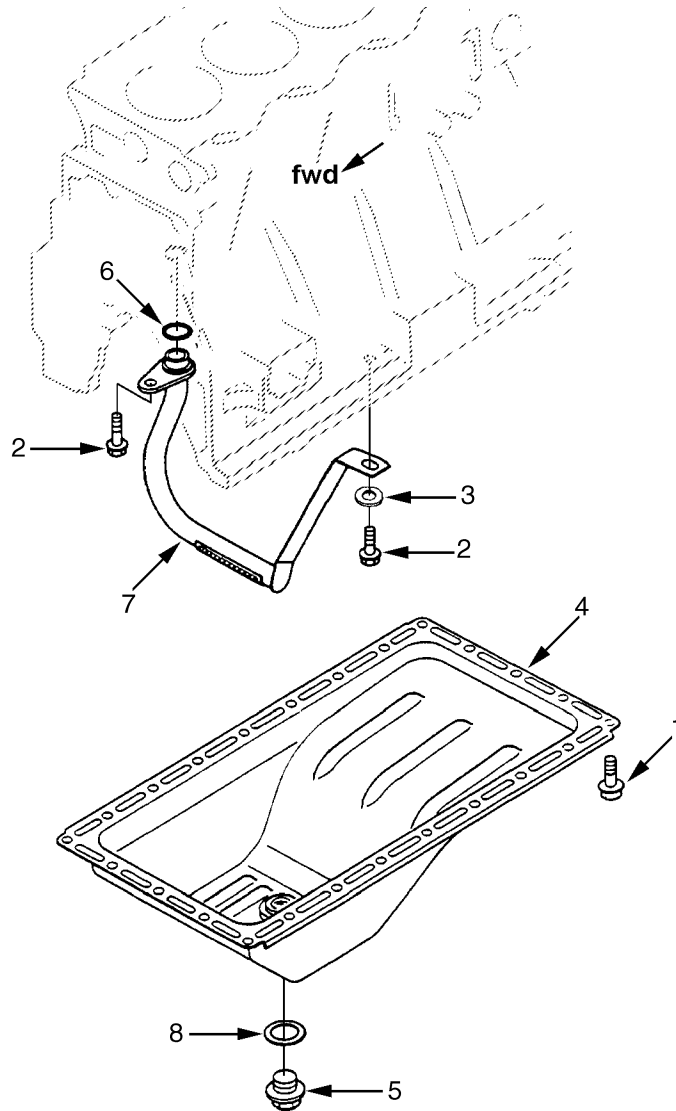
BP090405

**WATER PUMP AND PULLEY
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691840	Capscrew	4
2	1692048	Seal	1
3	1692049	Gasket	1
4	1692050	Plug	2
5	1692051	Plug	1
6	1692052	Water Pump	1
6	1705954	Water Pump (Alternate Part)	1
6	1692058	Body	1
7	1692057	Capscrew	7
8	1692059	Gasket	1
9	1692060	Cover Plate	1
10	1692053	Boss	1
11	1692054	Impeller	1
12	1692055	Shaft	1
13	1692056	Seal	1
14	1691647	Water Pump Pulley	1
	a 1692061	V-Belt	1

FOOTNOTES:**a** Not Illustrated

OIL PAN (FIGURE 2-26) CUMMINS QSB 3.3L DIESEL



BP090395

OIL PAN
CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691860	Capscrew	24
2	1691853	Capscrew	2
3	1691862	Washer	1
4	2109562	Oil Pan	1
5	1691864	Plug	1
6	1691865	Seal	1
7	1691866	Tube	1
8	1691867	Washer	1

This diagram shows the front wheel assembly in an exploded view. The components are numbered as follows:

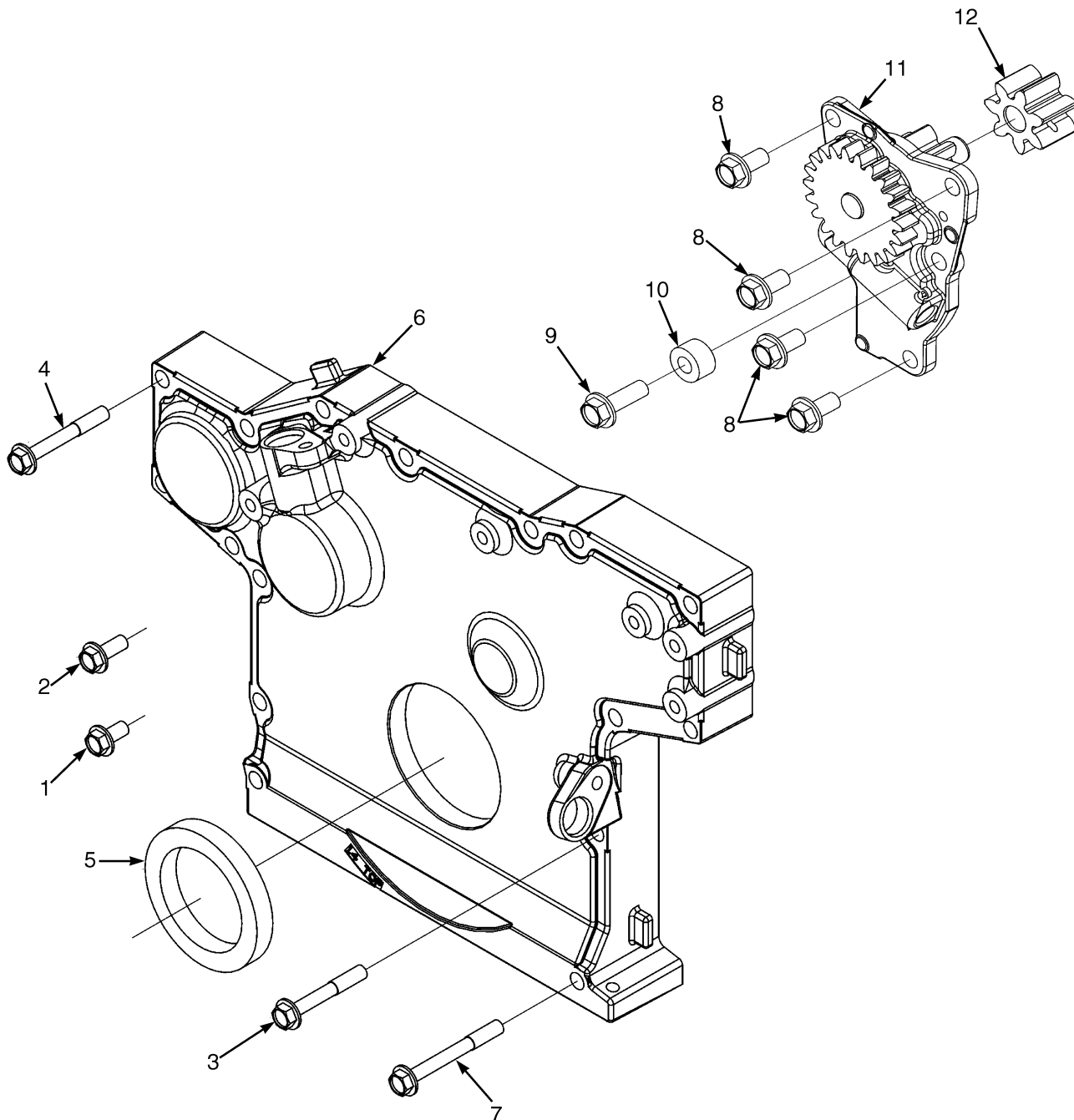
- 1: Front wheel
- 2: Axle nut
- 3: Axle tube
- 4: Fork arm
- 5: Fork pin
- 6: Fork tube
- 7: Fork seal
- 8: Fork cap

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691844	Oil Cooler	1
2	1691845	Coupling	1
3	1691841	Coupling	1
4	1691842	Hose	1
5	1691837	Coupling	1
6	1691843	Hose	1
7	1691828	Hose Clamp	4
8	1691846	Oil Filter	1

NOTES

[illegible]

OIL PUMP AND FRONT GEAR COVER (FIGURE 2-28) CUMMINS QSB 3.3L DIESEL

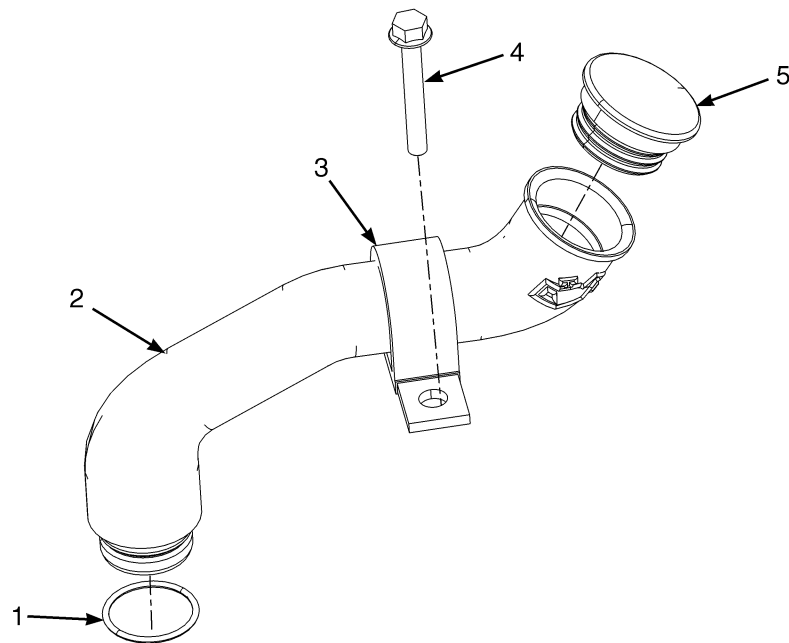


BP090143

**OIL PUMP AND FRONT GEAR COVER
CUMMINS QSB 3.3L DIESEL**

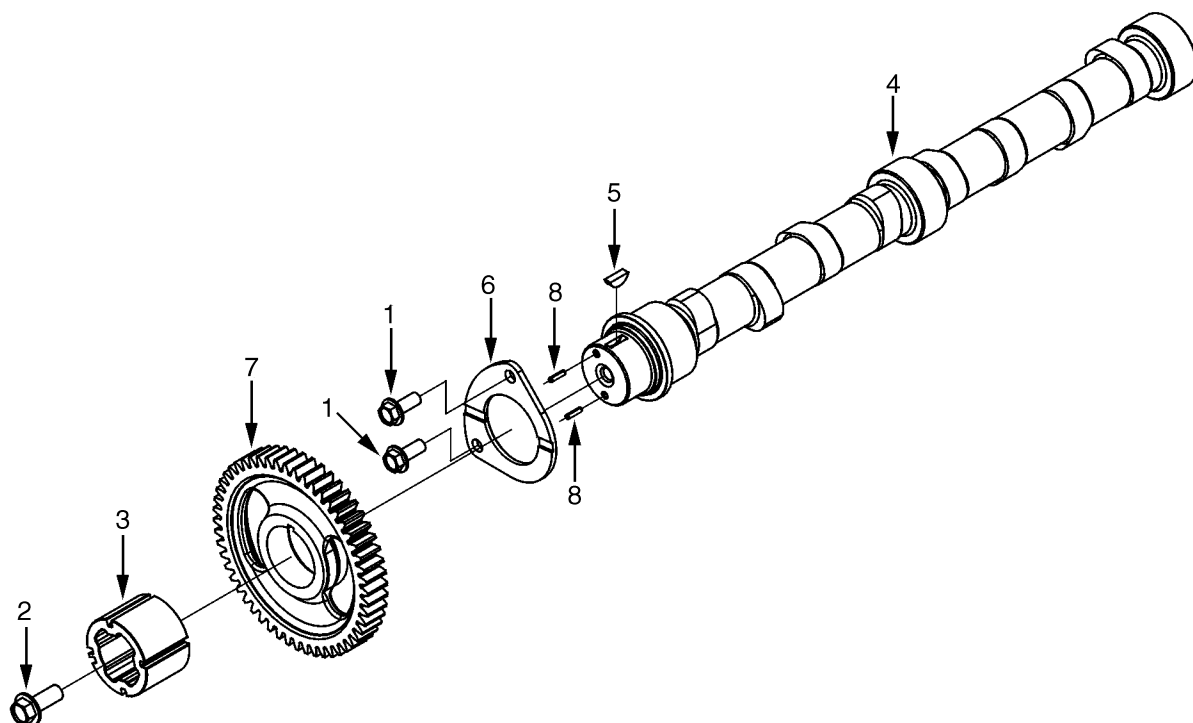
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691853	Capscrew	2
2	1691869	Capscrew	2
3	1691830	Capscrew	6
4	1691831	Capscrew	8
5	1691832	Oil Seal	1
6	1691833	Cover	1
7	1691834	Capscrew	2
8	1691853	Capscrew	4
9	1691854	Capscrew	1
10	1691856	Spacer	1
11	1691857	Oil Pump	1
12	1691855	Gear	1

OIL FILLER ARRANGEMENT (FIGURE 2-29) CUMMINS QSB 3.3L DIESEL



BP090413

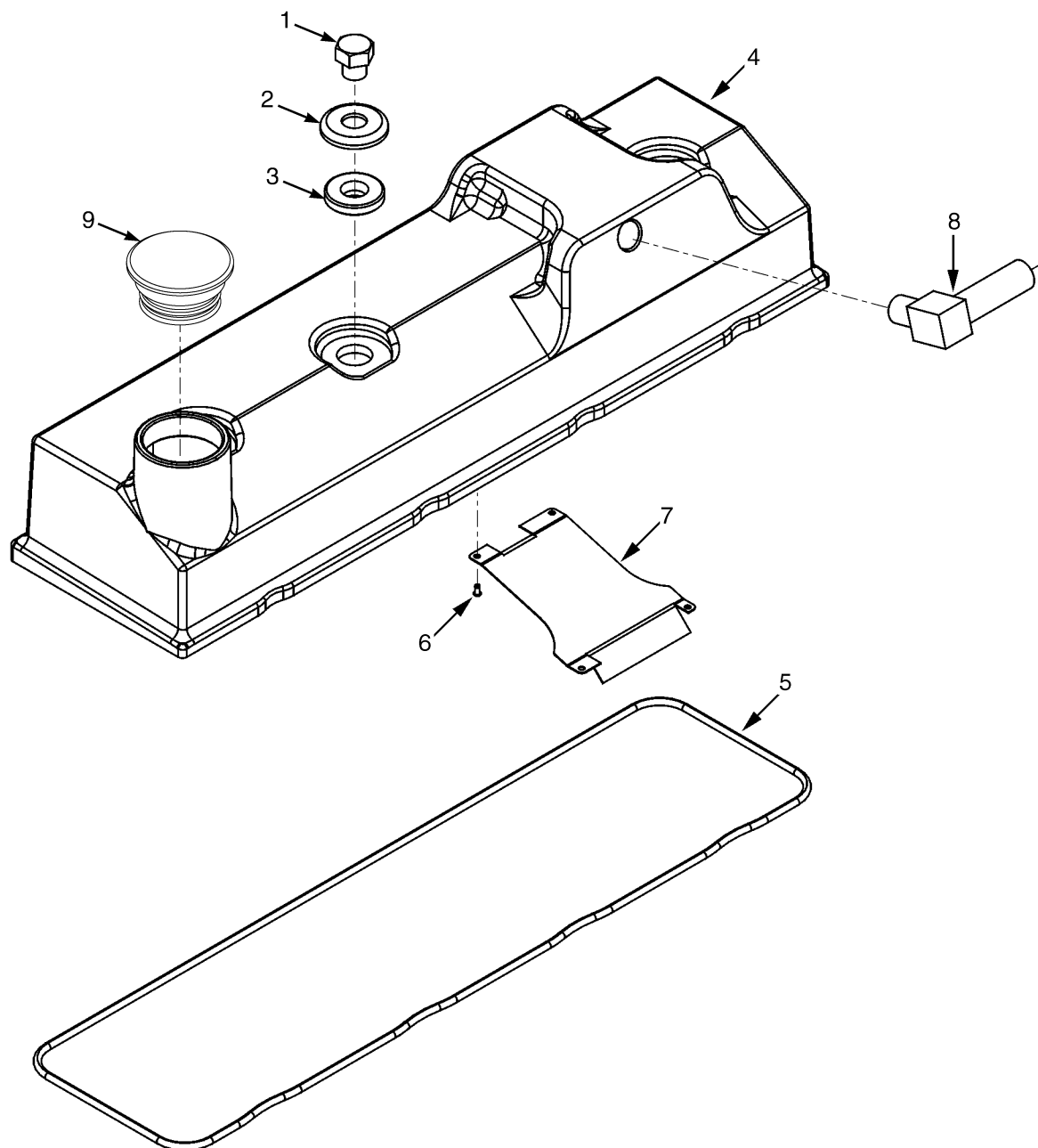
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	39378	O-Ring	2
2	1691792	Tube	1
3	258590	Clamp	1
4	1510116	Capscrew	1
5		Cap	1

CAMSHAFT (FIGURE 2-30)
CUMMINS QSB 3.3L DIESEL

BP090393

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691869	Capscrew	2
2	1691886	Capscrew	1
3	1691887	Adapter (Position Sensor)	1
4	1691888	Camshaft	1
5	1691894	Key	1
6	1693081	Plate (Clamping)	1
7	1691885	Gear	1
8	1691896	Cotter Pin	2

VALVE COVER (FIGURE 2-31) CUMMINS QSB 3.3L DIESEL

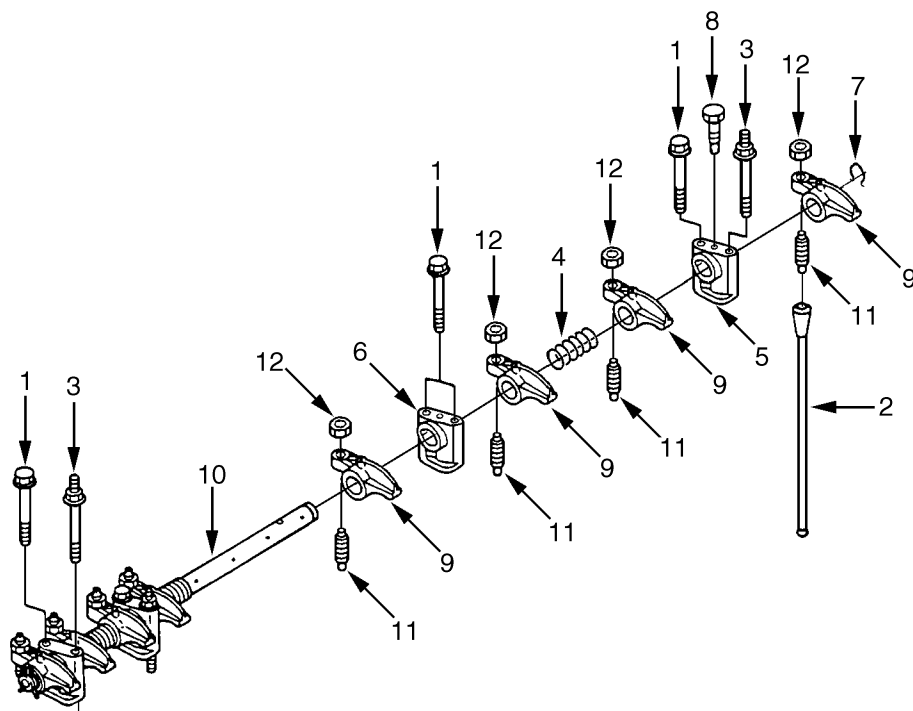


BP090415

**VALVE COVER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1692035	Locknut	3
2	1692036	Washer	3
3	1692037	Gasket	3
4	1692038	Cover	1
5	1692040	Gasket	1
6		Rivet	4
7		Cover Plate	1
8		Tube	1
9	1691858	Cap	1

ROCKER ARM SHAFT (FIGURE 2-32) CUMMINS QSB 3.3L DIESEL



BP080739

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691992	Capscrew	5
2	1691993	Push Rod	8
3	1691994	Capscrew	3
4	1691996	Spring	3
5	1691997	Support	1
6	1691998	Support	3
7	1691999	Clip	2
8	1692000	Capscrew	1
9	1692001	Lever	8
10	1692002	Shaft	1
11	1692004	Screw	8
12	1692005	Locknut	8

NOTES

This image shows a single page of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This exploded view diagram illustrates the assembly of a piston and crankshaft. The components are labeled as follows:

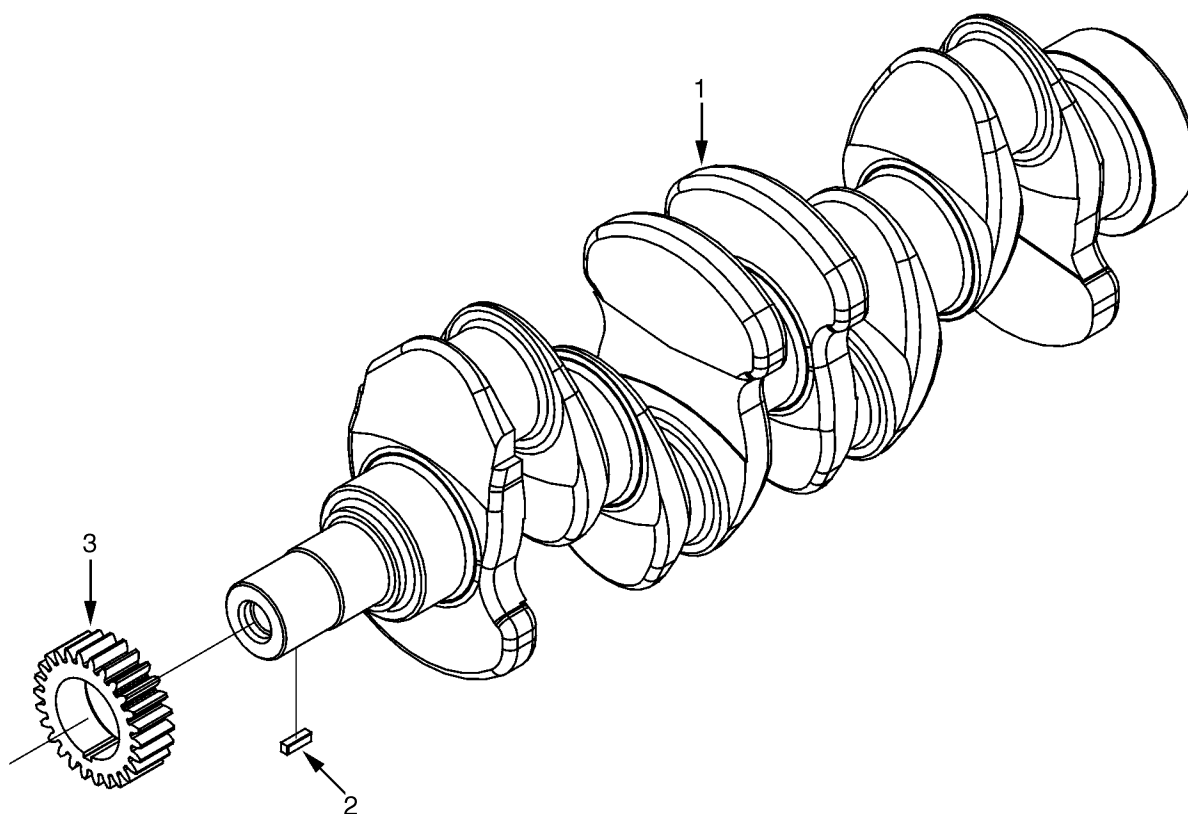
- 1:** Piston rings (two shown).
- 2:** Piston skirt (shown in two views).
- 3:** Piston crown (shown in two views).
- 4:** Piston pin (shown in two views).
- 5:** Piston pin bush (shown in two views).
- 6:** Crankshaft (shown in two views).

The diagram shows the relative positions and assembly sequence of these parts, with arrows indicating the direction of assembly.

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**PISTON AND CONNECTING ROD
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691890	Retaining Ring	8
2	1691891	Bearing	8
3		Piston	4
4	1691893	Piston Ring	1
5	1691881	Pin	4
6	1691882	Piston Rod	4
	1691892	Kit-Piston	4

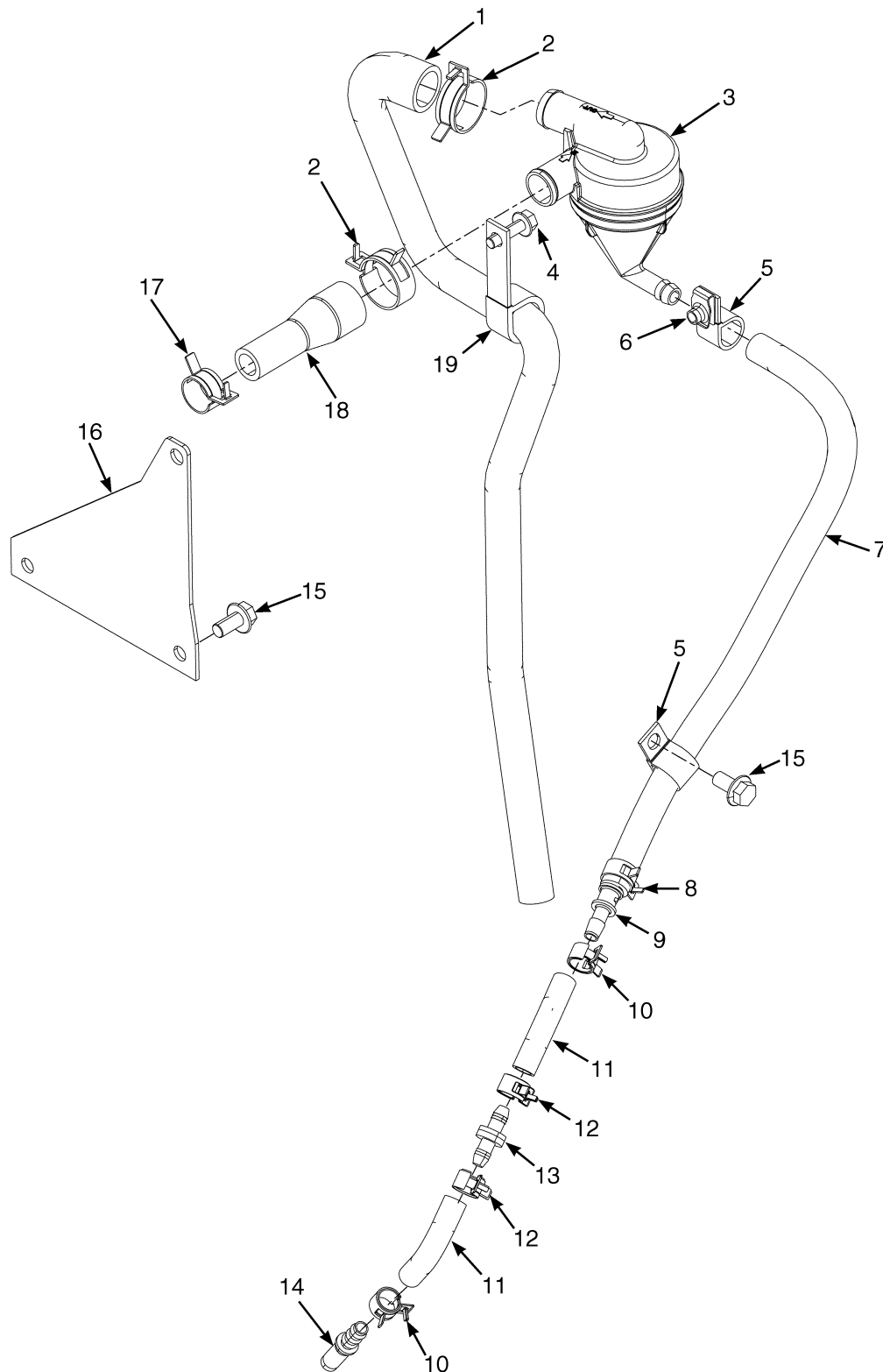
CRANKSHAFT (FIGURE 2-34)
CUMMINS QSB 3.3L DIESEL

BP090178

CRANKSHAFT
CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691597	Crankshaft	1
2	1691598	Woodruff Key	1
3		Crankshaft Gear	1

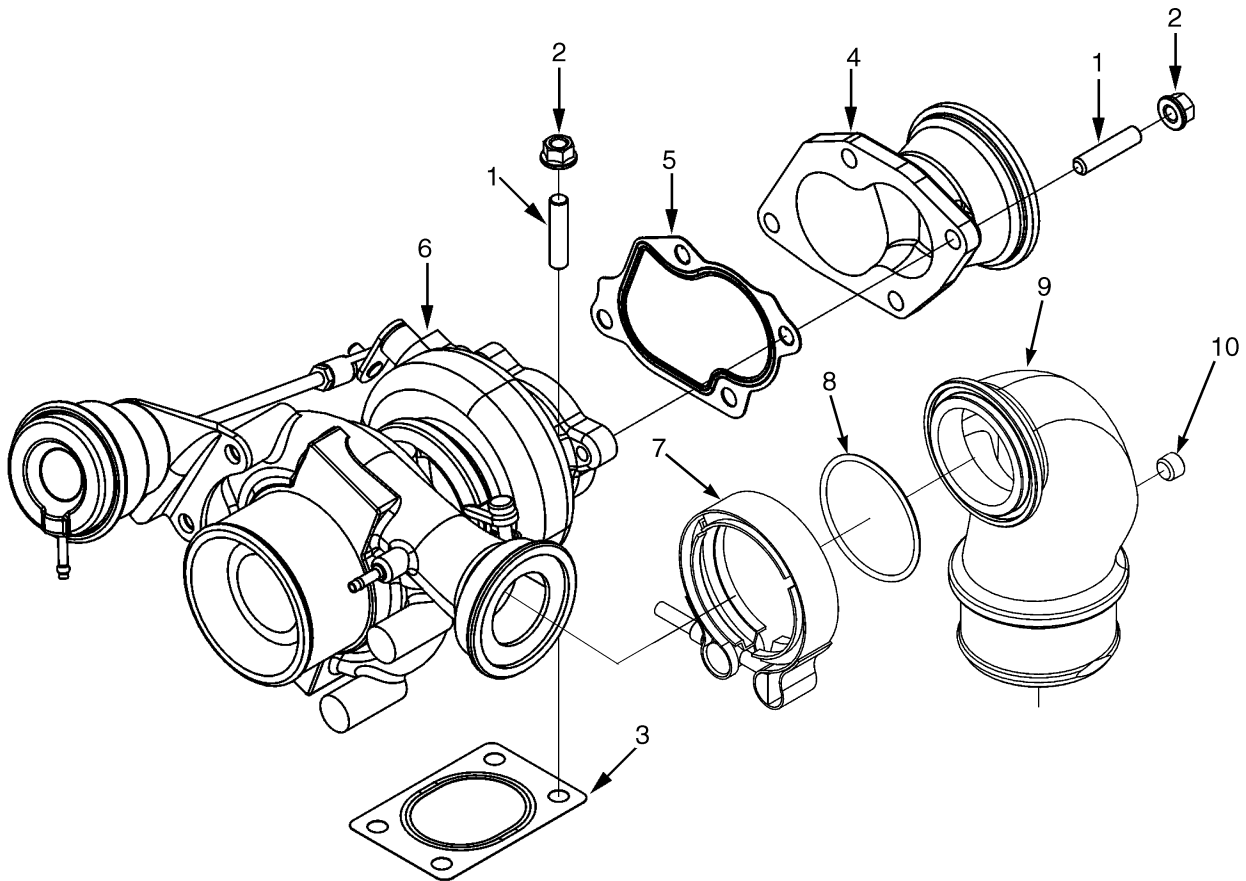
CRANKCASE BREATHER (FIGURE 2-35) CUMMINS QSB 3.3L DIESEL



BP090398

**CRANKCASE BREATHER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	2102765	Hose	1
2	1527980	Hose Clamp	2
3	1676948	Separator	1
4	1527881	Capscrew	1
5	173247	Clamp	2
6	1480237	Nut	1
7	1686731	Hose	1
8	1502006	Hose Clamp	1
9	1677717	Reducer	1
10	1502004	Hose Clamp	1
11	1473099	Hose	2
12	1569616	Hose Clamp	4
13	1677426	Check Valve	1
14	1687413	Fitting	1
15	1527883	Capscrew	3
16	1676949	Bracket	1
17	1501994	Hose Clamp	1
18	2102767	Hose	1
19	1399400	Clamp	1

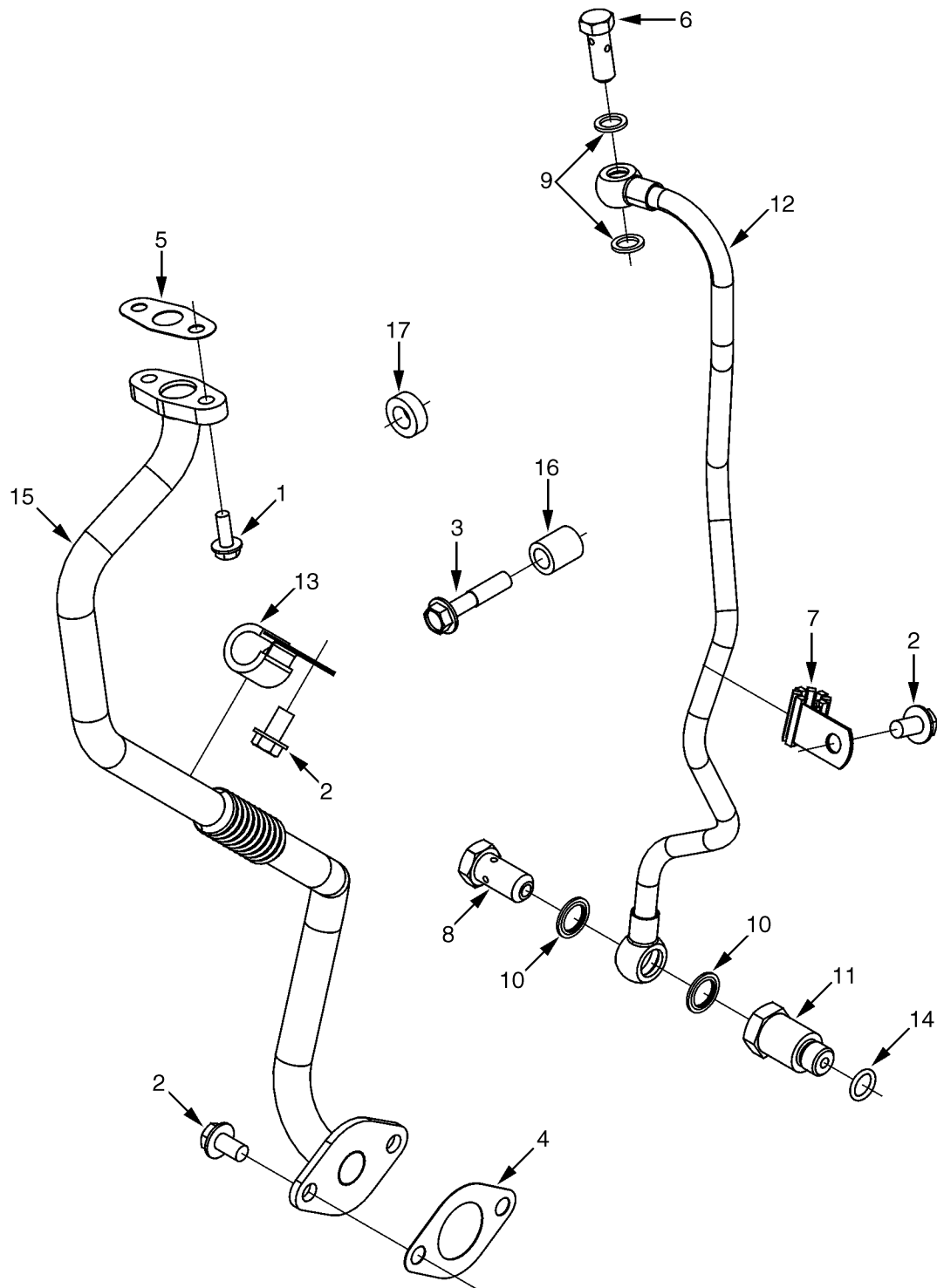
TURBOCHARGER (FIGURE 2-36)
CUMMINS QSB 3.3L DIESEL

BP090396

**TURBOCHARGER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691986	Stud	4
2	1691987	Nut	4
3	1691988	Gasket	1
4	1691989	Connector	1
5	1691990	Gasket	1
6		Turbocharger	1
7	1691806	Clamp	1
8	1691822	Seal	1
9	1691823	Pipe	1
10	1513191	Fitting	1
	1692003	Kit-Repair Turbocharger	1

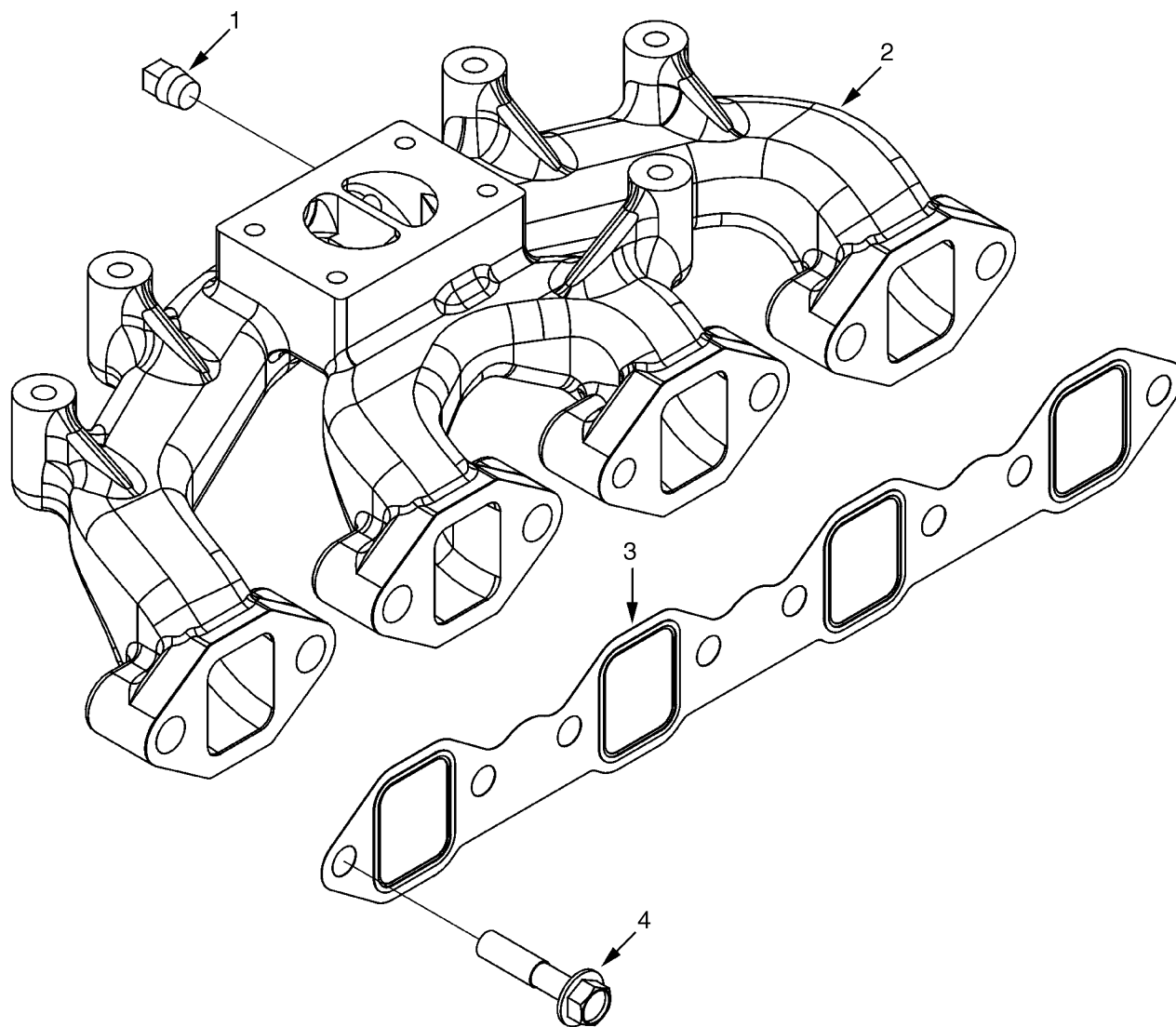
TURBOCHARGER PLUMBING (FIGURE 2-37) CUMMINS QSB 3.3L DIESEL



BP090397

**TURBOCHARGER PLUMBING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1692011	Capscrew	2
2	1691860	Capscrew	2
3	1691909	Capscrew	2
4	1692023	Gasket (Oil Drain)	1
5	1692024	Gasket (Oil Drain)	1
6	1692025	Screw (Banjo Connector)	1
7	1692026	Clip	1
8	1673878	Screw (Banjo Connector)	1
9	1692027	Washer	2
10	1513714	Sealing Ring	2
11	1692028	Boot	1
12	1692029	Tube (Oil Supply)	1
13	1692030	Clip	1
14	1692031	Seal	1
15	1692032	Tube (Oil Drain)	1
16	1692033	Spacer	1
17	1692034	Spacer	1

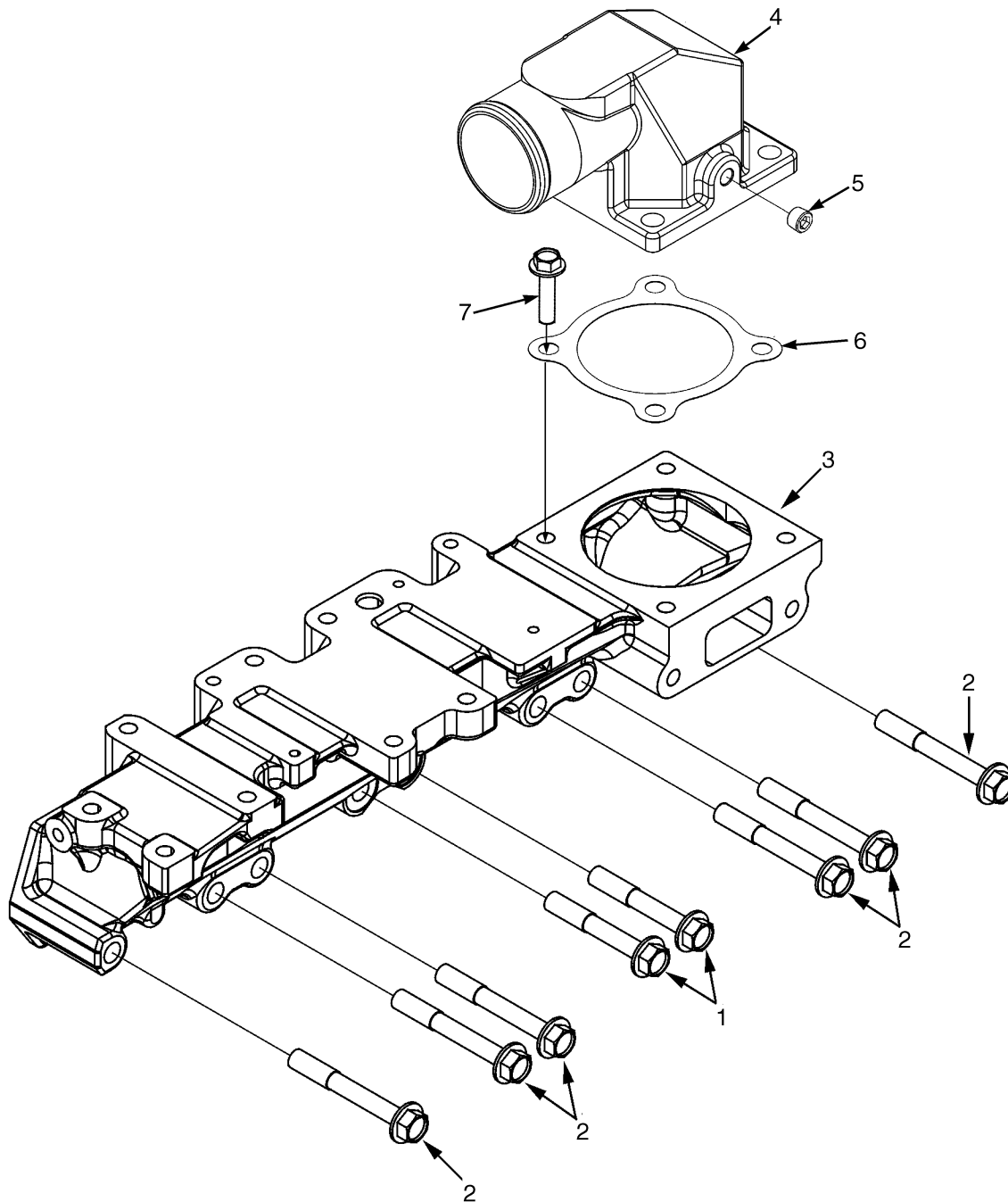
EXHAUST MANIFOLD (FIGURE 2-38)
CUMMINS QSB 3.3L DIESEL

BP090259

**EXHAUST MANIFOLD
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1692009	Plug	1
2	1692010	Exhaust Manifold	1
3	1692008	Gasket	1
4	1644113	Capscrew	7

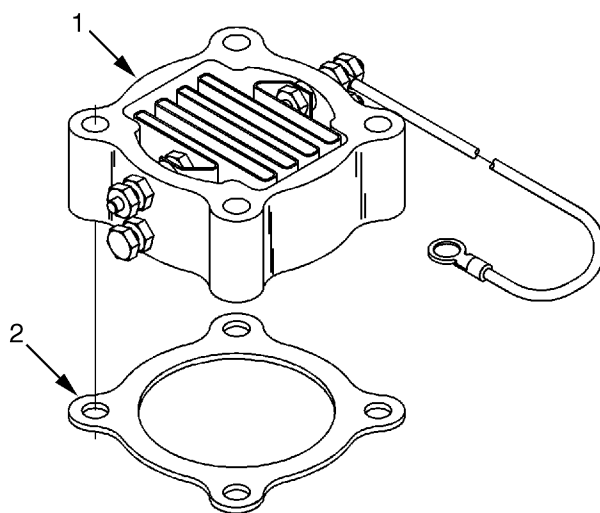
AIR INTAKE MANIFOLD (FIGURE 2-39) CUMMINS QSB 3.3L DIESEL



BP090258

**AIR INTAKE MANIFOLD
CUMMINS QSB 3.3L DIESEL**

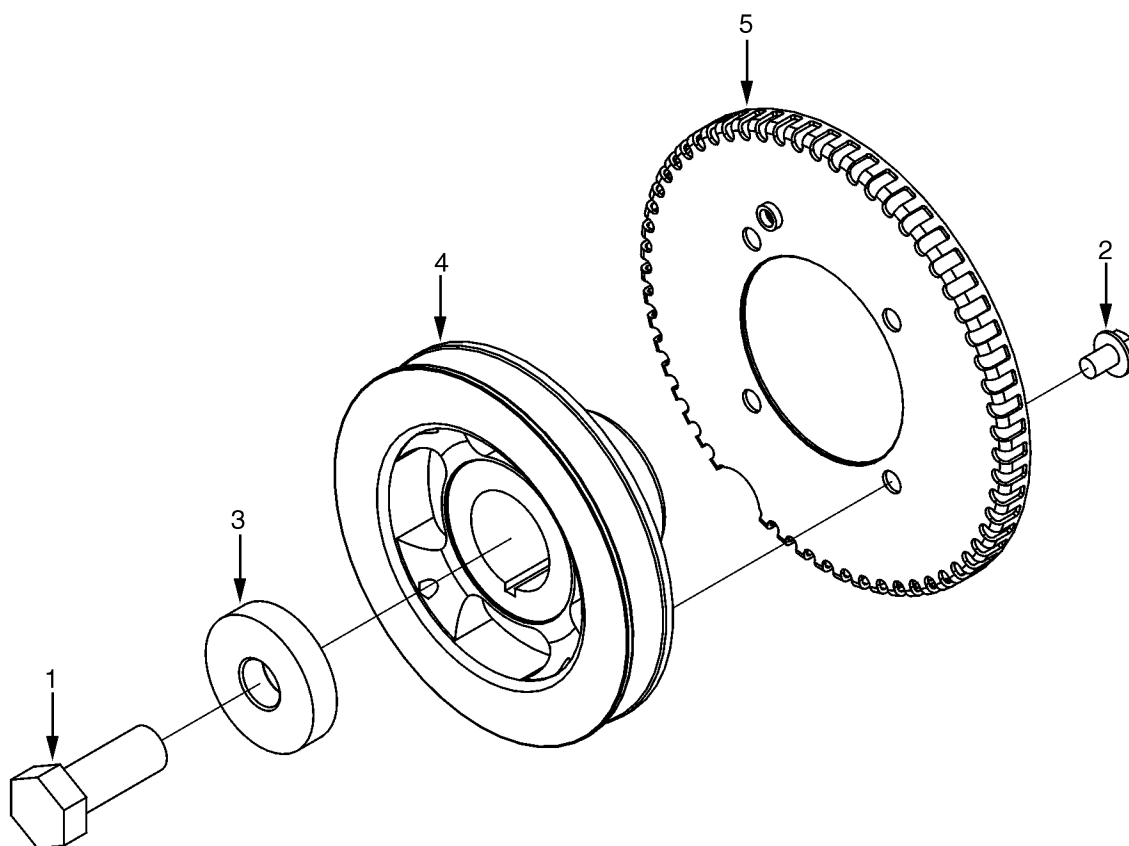
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691839	Capscrew	2
2	1691840	Capscrew	6
3	1691645	Intake Manifold	1
4	1691838	Connector (Air Intake)	1
5	1513191	Fitting	1
6	1691577	Gasket	1
7	1691835	Capscrew	4

STARTING AID (FIGURE 2-40)
CUMMINS QSB 3.3L DIESEL

BP090404

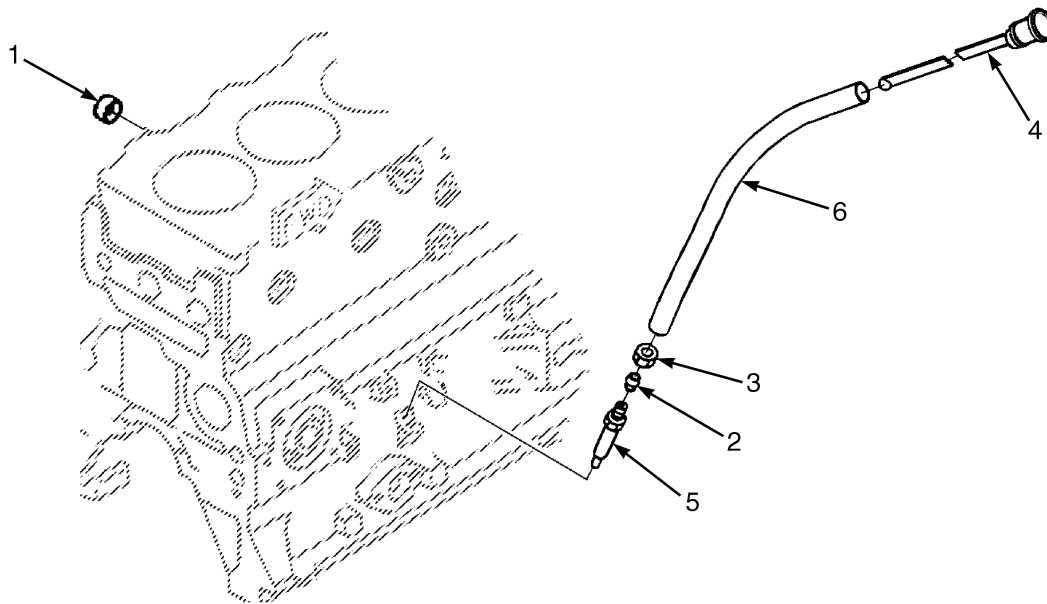
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691576	Heater	1
1	1705956	Heater (Alternate Part)	1
2	1691577	Gasket	1
	ab 1691613	Plug	1

FOOTNOTES:**a** Not Illustrated**b** When heater is not used

VIBRATION DAMPER (FIGURE 2-41)
CUMMINS QSB 3.3L DIESEL

BP090400

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691614	Capscrew	1
2	1691615	Capscrew	4
3	1691624	Plate	1
4	1691625	Crankshaft Pulley	1
5	1691626	Ring (Speed Indicator)	1

OIL LEVEL GAUGE (FIGURE 2-42)
CUMMINS QSB 3.3L DIESEL

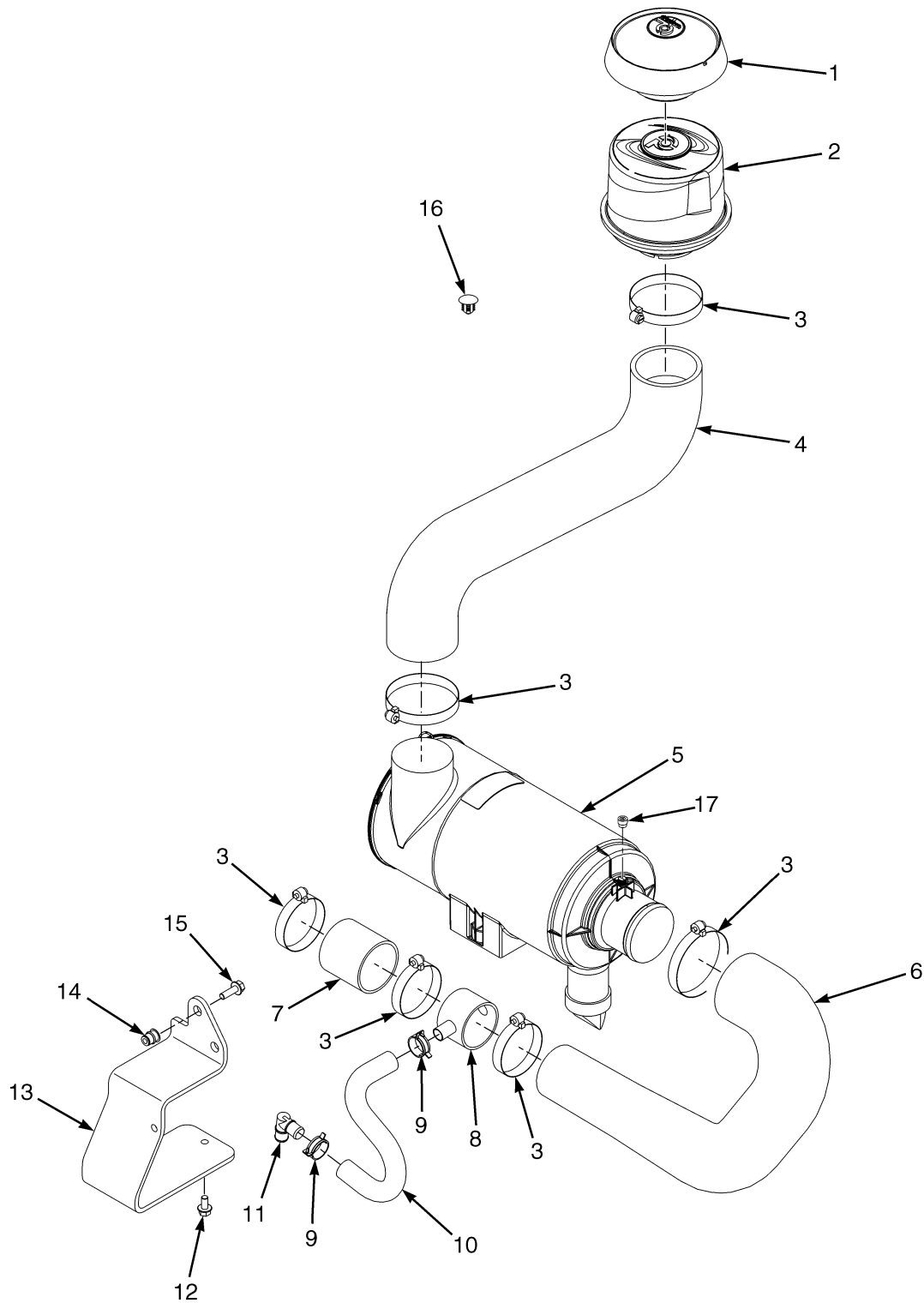
BP090409

ITEM	PART NO.	DESCRIPTION	QTY
1	1691847	Plug	1
2	1691848	Collar	1
3	1691849	Nut	1
4	1691850	Dipstick	1
5	1691851	Dipstick Tube (Lower)	1
6	1691852	Dipstick Tube (Upper)	1

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FUEL SYSTEM**

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THROTTLE PEDAL AND ATTACHING PARTS	3-38
WATER SEPARATOR	
CUMMINS QSB 3.3L DIESEL	3-37

AIR INTAKE (FIGURE 3-1) GM 4.3L GASOLINE AND LPG

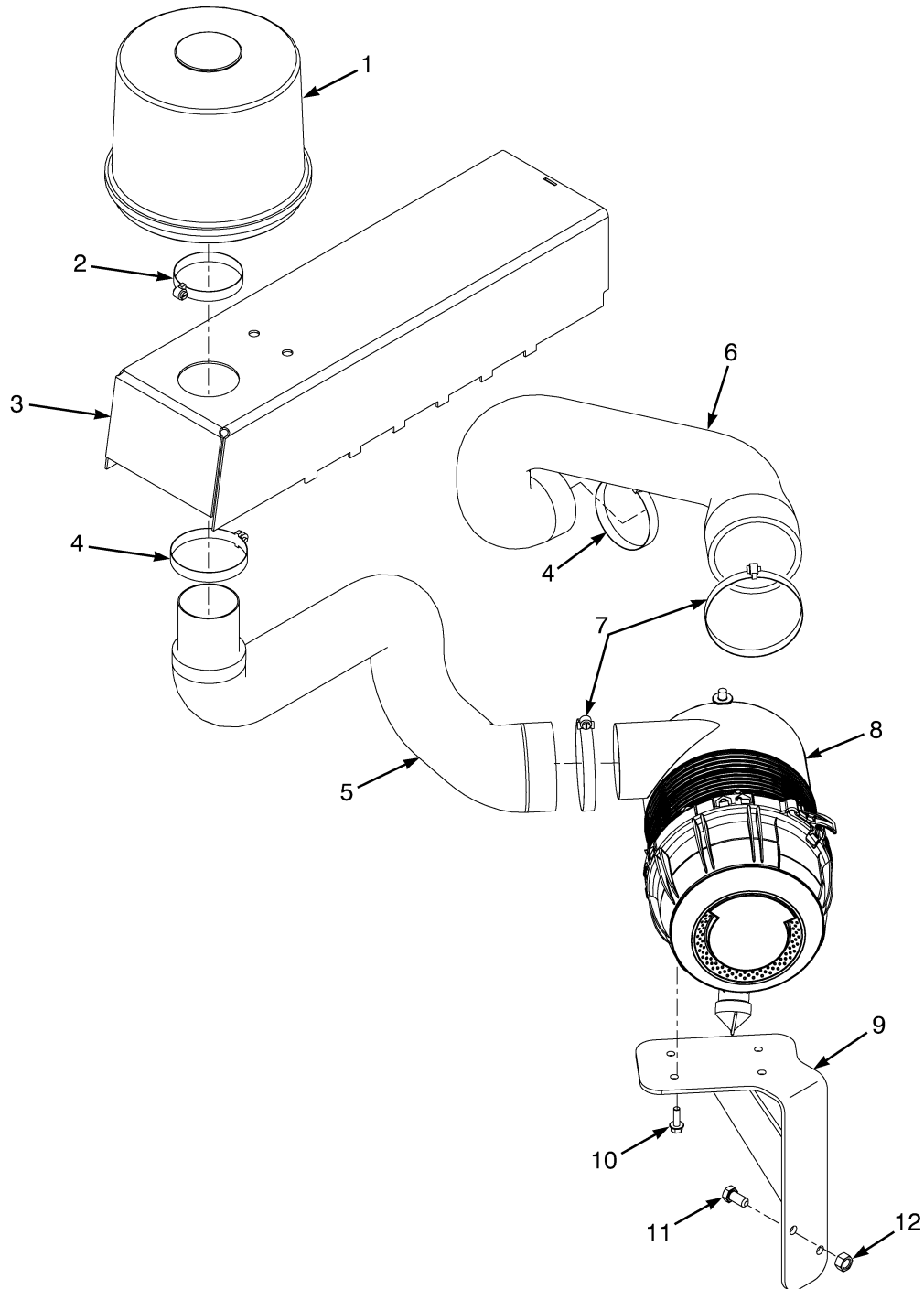


BP130284

AIR INTAKE
GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	154821	Cap	1
2	1501888	Pre-Cleaner	1
3	115696	Hose Clamp	6
4	2081788	Hose (Dirty Air)	1
5	2105571	Air Filter Assembly (☞ Figure 3-3).....	1
6	2102917	Hose (Clean Air)	1
7	2102916	Hose (Air Intake)	1
8	1661665	Coupler (PCV)	1
9	1502009	Hose Clamp	2
10	2093738	Hose	1
11	379407	Fitting	1
12	1527879	Capscrew	2
13	1640863	Bracket	1
14	1530243	Insert	2
15	1510113	Capscrew	2
16	1561847	Plug	2
17	165991	Indicator (Restriction)	1

AIR INTAKE (FIGURE 3-2) CUMMINS QSB 3.3L DIESEL

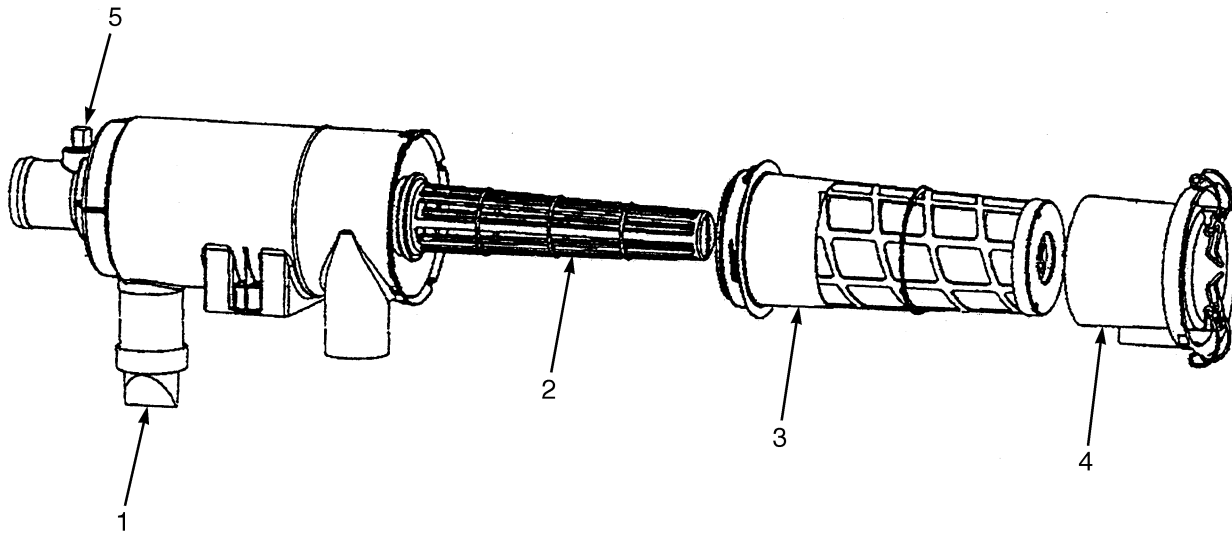


BP130170

**AIR INTAKE
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	154821	Cap	1
1	2097624	Pre-Cleaner	1
2	1689464	Clamp	1
3	1638510	Hood Support	1
4	115696	Hose Clamp	2
5	2099265	Hose (Dirty Air)	1
6	2099080	Hose (Clean Air)	1
7	227220	Clamp	2
8	2100119	Air Filter	1
8	2103627	Filter Element	1
8	1689296	Kit-Cover	1
9	1664618	Bracket Wldmt	1
10	1510113	Capscrew	4
11	293645	Capscrew	2
12	292656	Nut	2

AIR FILTER (FIGURE 3-3)



BP070054

ITEM	PART NO.	DESCRIPTION	QTY
	2105571	Air Filter Assembly	1
1	374923	Valve	1
2	1620145	Inner Liner Assy (Gasket)	1
3	1620142	Filter Element	1
4	1688547	Cover	1
5	141331	Cap	1

NOTES

[illegible]

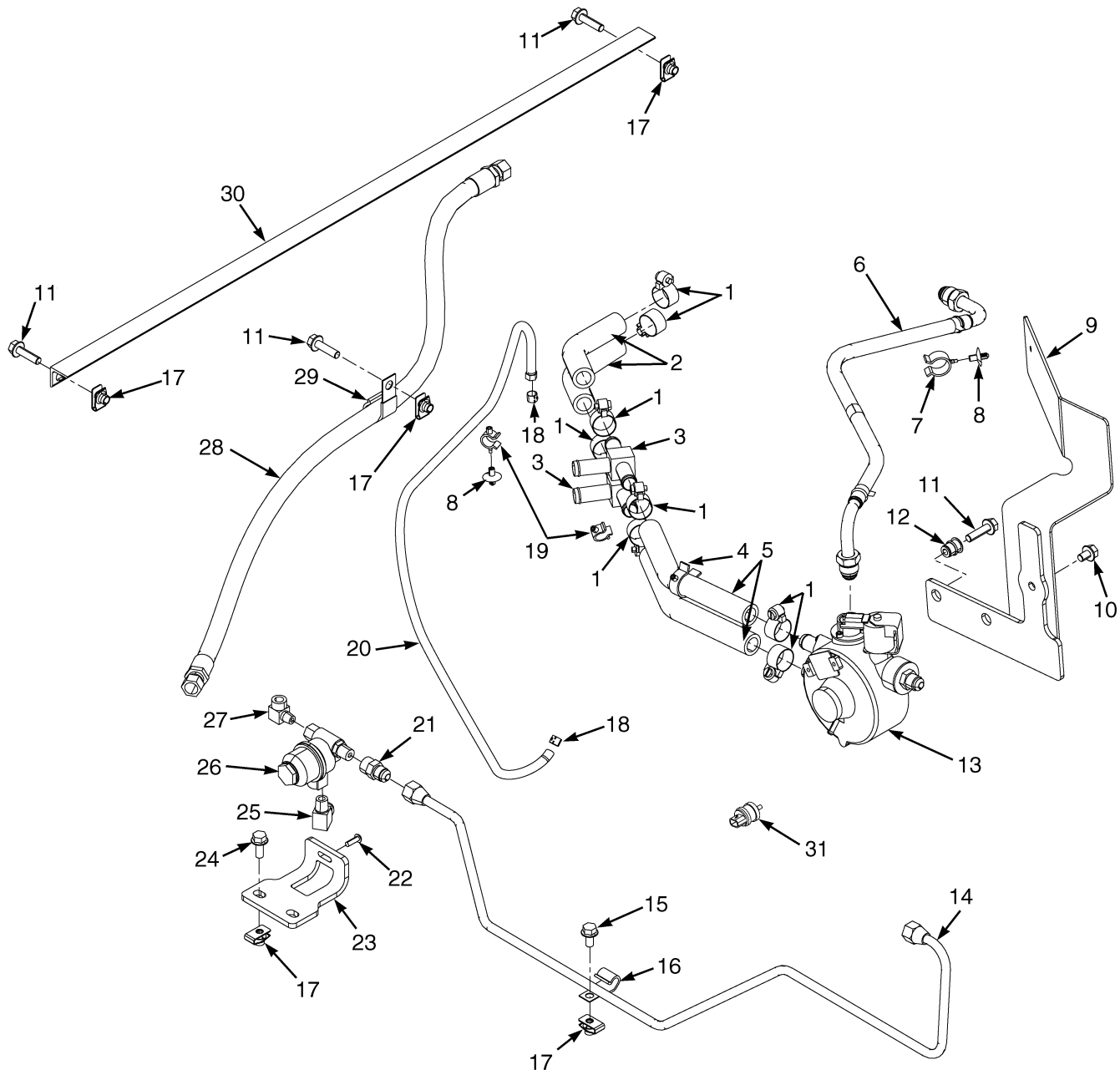
BP130271

FUEL SUPPLY SYSTEM
GM 4.3L GASOLINE

ITEM	PART NO.	DESCRIPTION	QTY
1	166857	Clamp	6
2	2080130	Hose	1
3	1527881	Capscrew	2
4	353000	O-Ring	1
5	1608872	Fuel Sender	1
6	192306	Fitting	1
7	12856	Fitting	1
8	17353	Fitting	1
9	1551665	Cover	1
10	1551828	Fuel Sender	1
11	1371149	Connector	1
12	1590211	Bracket	1
13	1511729	Wire Harness	1
14	114312	Strap Clamp	1
15	1528893	Quad Ring	1
16	2074231	Hose	1
17	119236	Clamp	1
18	1553541	Fuel Filter	1
19	2066137	Hose	1
20	1579677	Fuel Cap	1
21	1528608	Grommet	1
22	325549	Shim (0.020 in.)	1
	a 1528481	Plug (With O-Ring) (Fuel Tank Drain)	1

FOOTNOTES:**a** Not Illustrated

FUEL SUPPLY SYSTEM (FIGURE 3-5) GM 4.3L LPG WITH STEEL DOOR CAB



BP130273

FUEL SUPPLY SYSTEM
GM 4.3L LPG WITH STEEL DOOR CAB

ITEM	PART NO.	DESCRIPTION	QTY
1	130845	Clamp	8
2	2094425	Coolant Hose	2
3	366000	Fitting	2
4	1542436	Clamp	1
5	2094426	Coolant Hose	2
6	2072631	Hose (Vapor)	1
6	1698684	Kit-O-Ring	1
7	1502066	Clamp	1
8	1543842	Clamp	2
9	1639118	Bracket	1
10	~~1529366~~		
	4011940	Capscrew	2
11	1527881	Capscrew	5
12	1530243	Insert	2
13	e 2056762	LPG Converter (☞ Figure 3-10).....	1
13	g 4602051	LPG Converter (☞ Figure 3-10).....	1
14	b 1639673	Tube	1
14	a 2110983	Tube Assy	1
15	1527879	Capscrew	1
16	1376782	Clamp	1
17	1480237	Nut	6
18	366473	Clamp	2
19	1542439	Clamp (Swivel)	2
20	1399437	Hose	1
21	14330	Fitting	1
22	296152	Capscrew	2
23	1639119	Bracket	1
24	1527880	Capscrew	2
25	14358	Fitting	1
26	d 2070100	Fuel Filter (LPG)	1
26	f 2105803	Fuel Filter (LPG)	1
26	d 1581302	Kit-Filter Element	1
26	f 1689544	Kit-Filter Element	1
26		O-Ring	1
26		Filter Element	1
26		O-Ring	1
26		Seal	1
27	b 16151	Fitting	1
27	a 14349	Fitting (Pipe Plug) (Not Shown)	1
28	2079983	Hose Assy	1
29	1339452	Clamp	1
30	1650217	Bracket	1
31	1501970	Pressure Switch (Low Fuel)	1
	ac 1662253	Sensor (Vapor)	1
	ac 1705818	Fitting (Vapor Sensor)	1

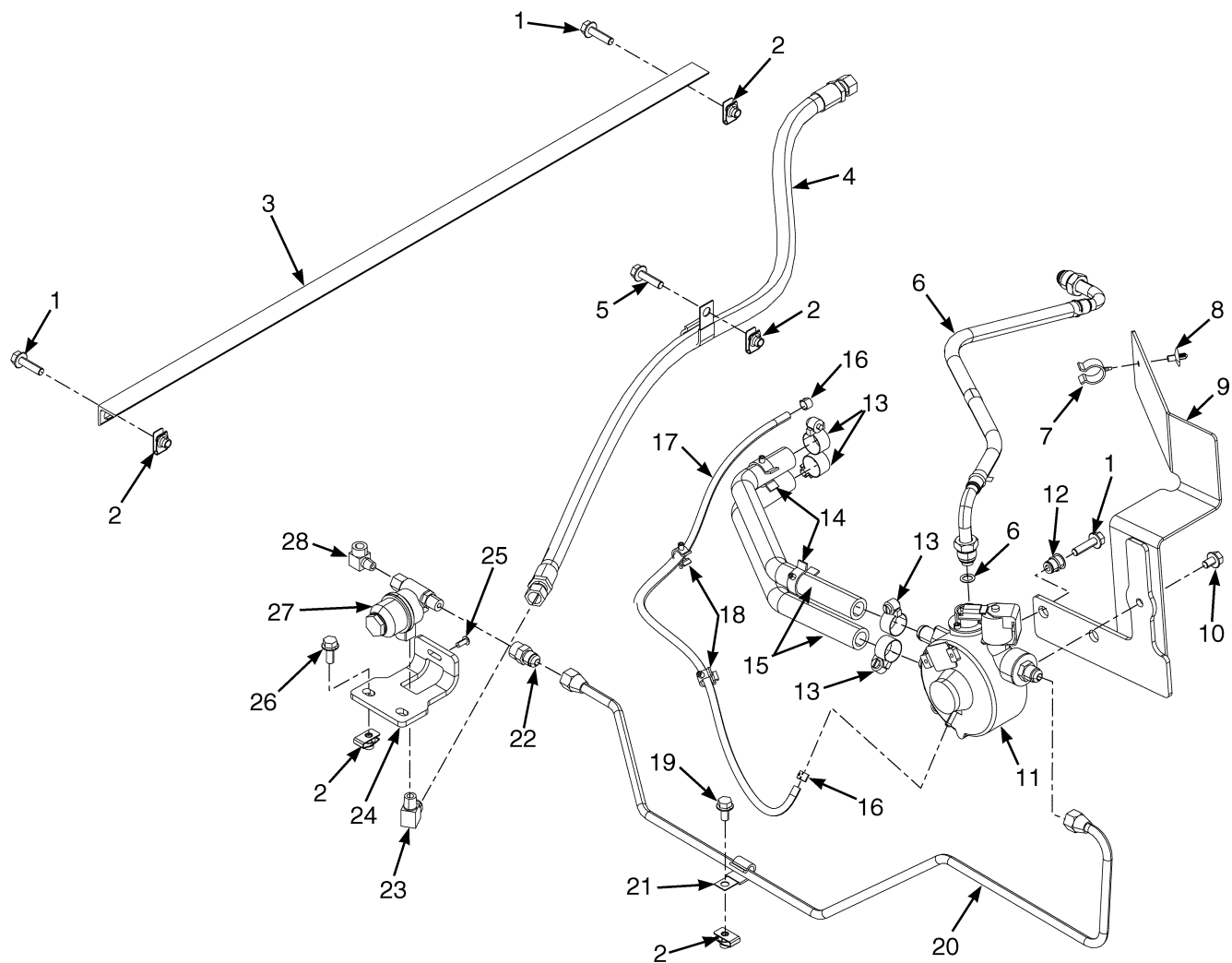
FOOTNOTES:

- a** For use only with premium low fuel sensor.
- b** For use only without premium low fuel sensor.
- c** Not Illustrated
- d** → S/N J006V01684F
- e** → S/N J006V02294G
- f** S/N J006V01685F →
- g** S/N J006V02295G →

NOTES

[illegible]

FUEL SUPPLY SYSTEM (FIGURE 3-6) GM 4.3L LPG WITH OVERHEAD GUARD OR PCV DOOR CAB



BP130210

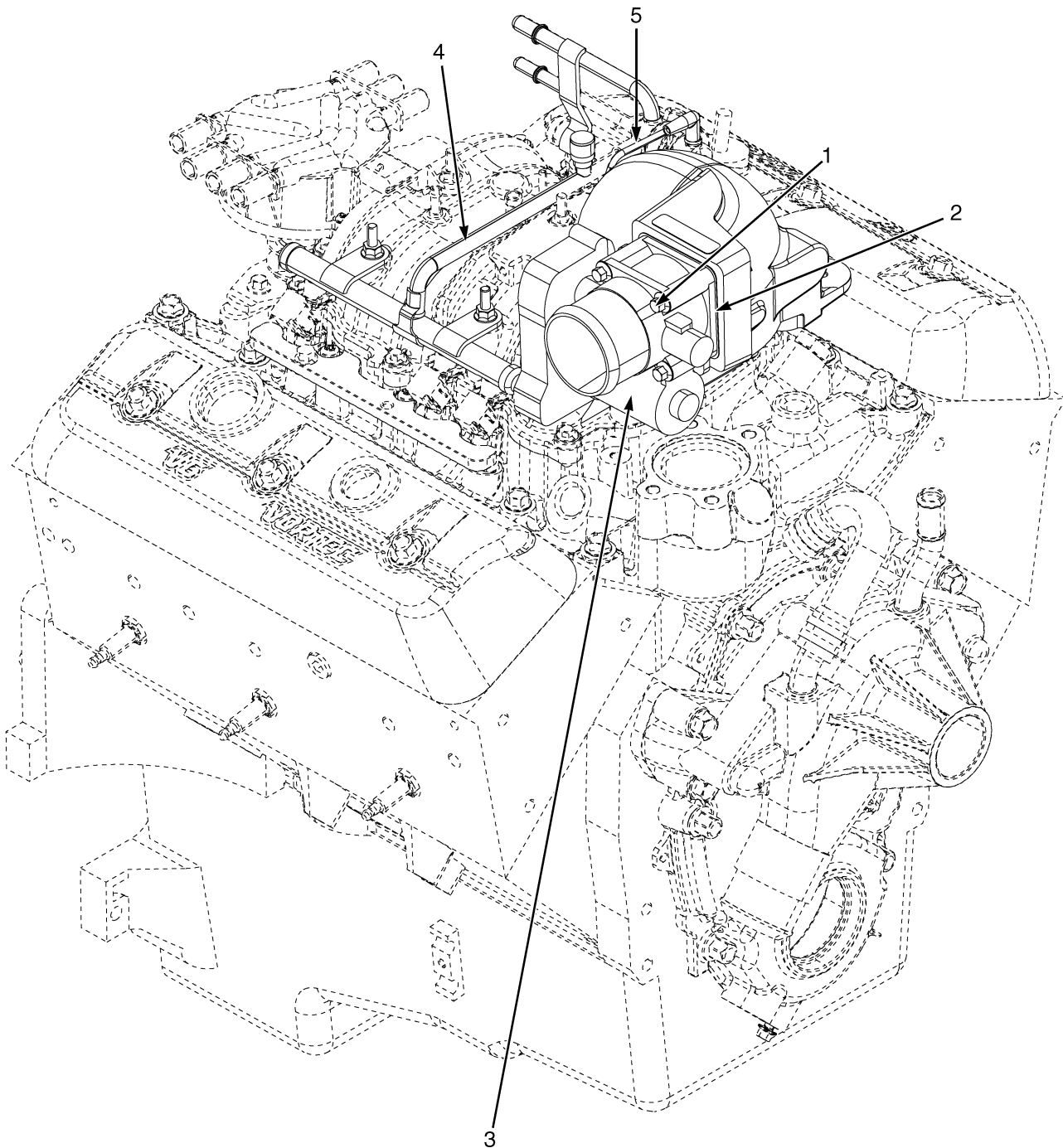
FUEL SUPPLY SYSTEM

GM 4.3L LPG WITH OVERHEAD GUARD OR PCV DOOR CAB

ITEM	PART NO.	DESCRIPTION	QTY
1	1527881	Capscrew	5
2	1480237	Nut	6
3	1650217	Bracket	1
4	2079983	Hose Assy	1
5	1339452	Clamp	1
6	2072631	Hose	1
6		O-Ring	2
7	1502066	Clamp	1
8	1543842	Clamp	1
9	1639118	Bracket	1
10	~~1529366~~ 4011940	Capscrew	1
11	d 2056762	LPG Converter (☞ Figure 3-10).....	1
11	e 4602051	LPG Converter (☞ Figure 3-10).....	1
12	1530243	Insert	2
13	130845	Clamp	4
14	1542436	Clamp	2
15	2071009	Coolant Hose	2
16	366473	Clamp	2
17	1399437	Hose	1
18	1542439	Clamp (Swivel)	2
19	1527879	Capscrew	1
20	b 1639673	Tube	1
20	a 2110983	Tube Assy	1
21	1376782	Clamp	1
22	14330	Fitting	1
23	14358	Fitting	1
24	1639119	Bracket	1
25	296152	Capscrew	2
26	1527880	Capscrew	2
27	2105803	Fuel Filter (LPG)	1
28	b 16151	Fitting	1
28	a 14349	Fitting (Pipe Plug) (Not Shown)	1
	ac 1662253	Sensor (Vapor)	1
	ac 1705818	Fitting (Vapor Sensor)	1

FOOTNOTES:

a	For use only with premium low fuel sensor.	d	→ S/N J006V02294G
b	For use only without premium low fuel sensor.	e	S/N J006V02295G →
c	Not Illustrated		

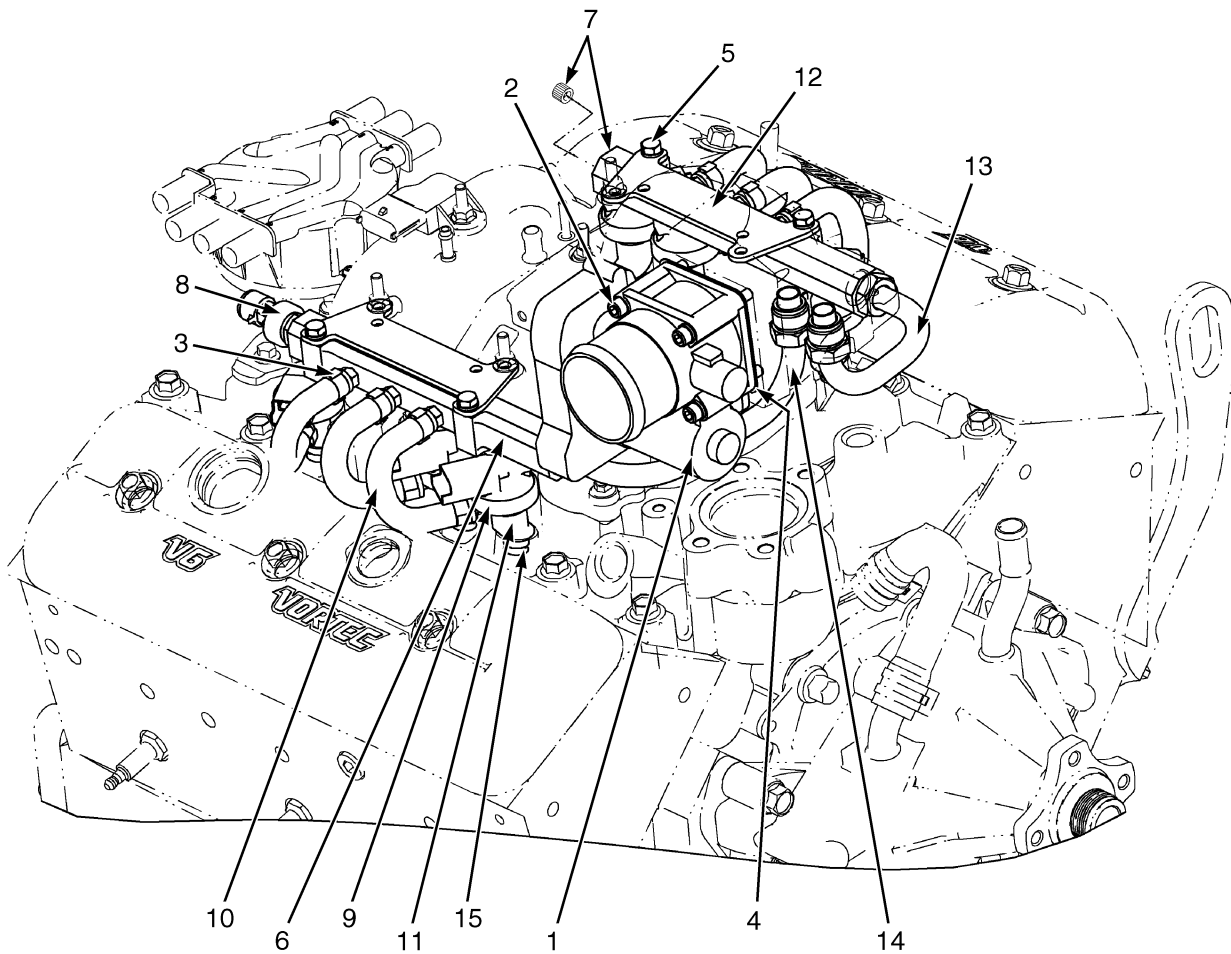
THROTTLE BODY ASSEMBLY AND FUEL RAIL (FIGURE 3-7)
GM 4.3L GASOLINE

BP130267

**THROTTLE BODY ASSEMBLY AND FUEL RAIL
GM 4.3L GASOLINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1540643	Capscrew	4
2	1557551	Gasket (Throttle Body)	1
3	1557547	Throttle Body	1
4	1677787	Tube Assy (Fuel Rail Assembly)	1
4	1559563	Injector	6
4	1677429	Retainer	6
4	1559557	Clip	1
4	1689940	Clip (Alternate Part)	1
4	1559561	Regulator	1
4	1686965	Fuel Rail	1
4	1686966	Pressure Valve	1
5	2066137	Hose	1

THROTTLE BODY ASSEMBLY (FIGURE 3-8) GM 4.3L LPG (→ PENDING PER ECN 10618119)



BP090275

THROTTLE BODY ASSEMBLY
GM 4.3L LPG (→ PENDING PER ECN 10618119)

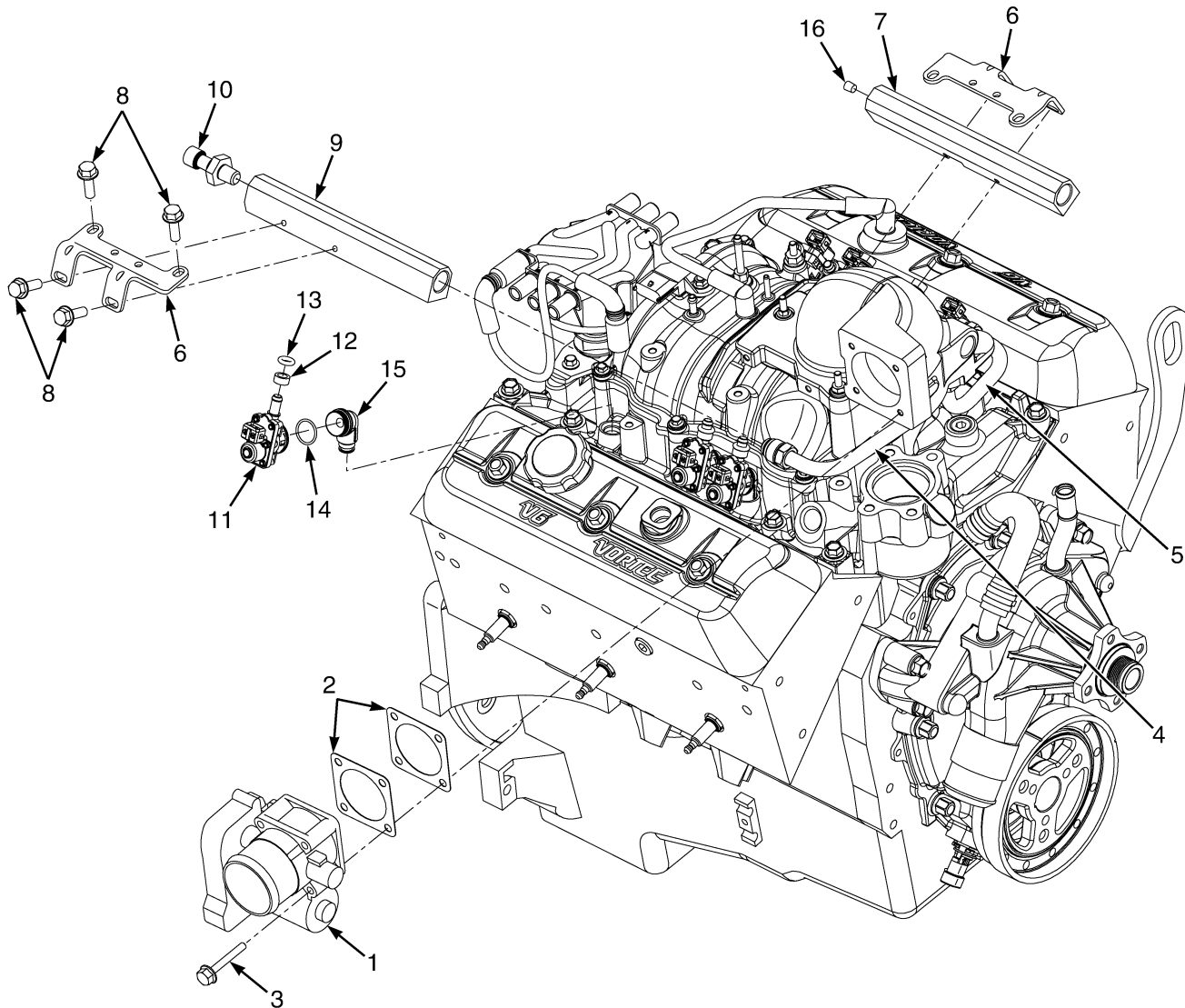
ITEM	PART NO.	DESCRIPTION	QTY
1	1557547	Throttle Body	1
2	1540643	Capscrew	4
3	1557566	Hose Clamp	12
4	1557551	Gasket (Throttle Body)	1
5	1527876	Capscrew	4
6	1632297	Fuel Rail	1
6	1632298	Fuel Rail	1
6	1632299	Fuel Rail	1
7	c 15347	Fitting	1
8	a 1632300	Sensor (Fuel Pressure)	1
9	1557560	Injector (LPG)	6
10	1632301	Hose	6
11	1632302	Adapter	6
12	1632303	Bracket	2
13	1632304	Tube Assy	1
14	1632305	Tube Assy	1
15	1557565	O-Ring	6
	b 1632307	Bracket	2

FOOTNOTES:

- a** Left Rail Only
b Not Illustrated

- c** Right Rail Only

THROTTLE BODY ASSEMBLY (FIGURE 3-9) GM 4.3L LPG (PENDING PER ECN 10618119 →)

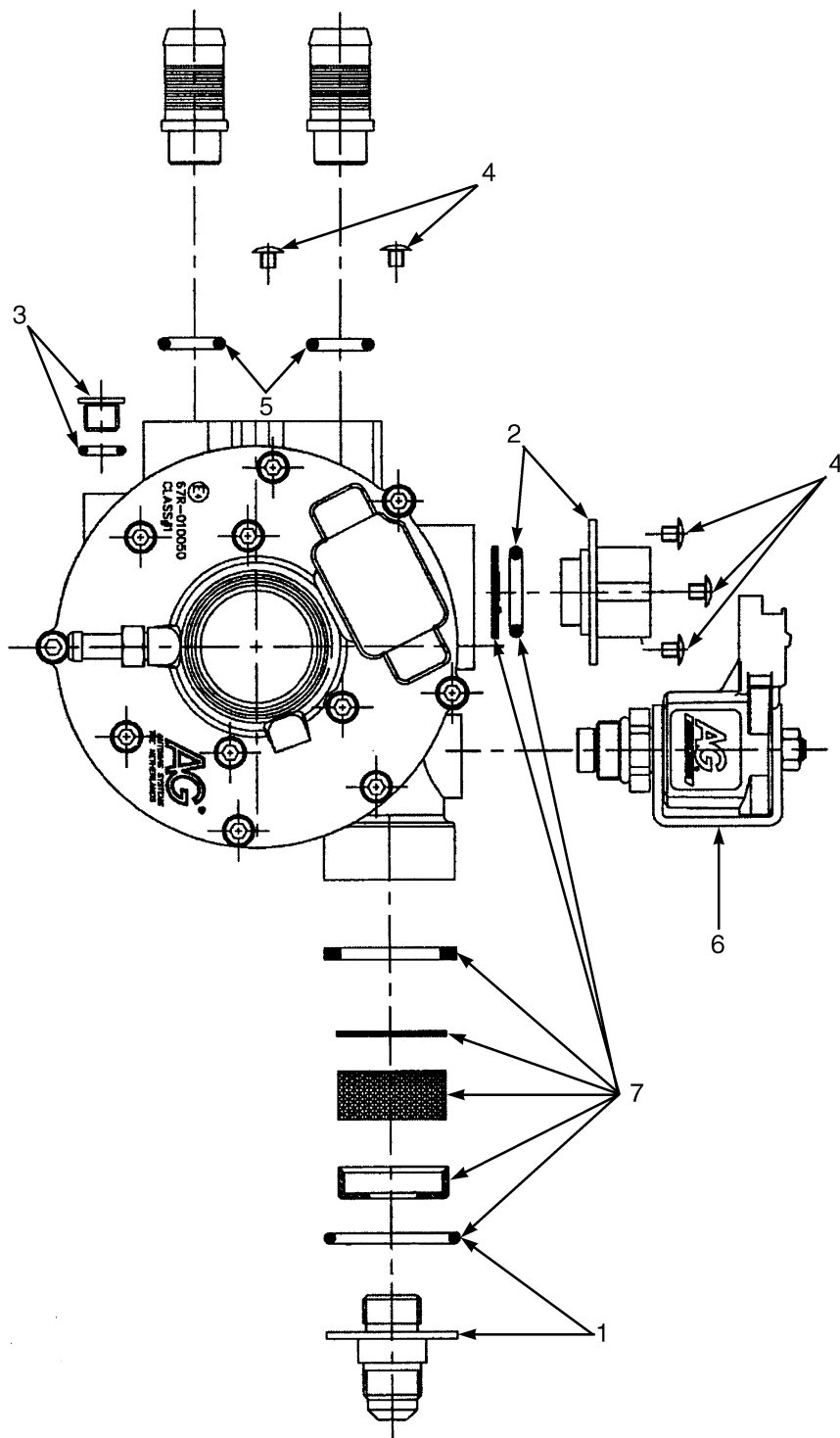


BP130307

THROTTLE BODY ASSEMBLY
GM 4.3L LPG (PENDING PER ECN 10618119 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1557547	Throttle Body	1
2	1557551	Gasket (Throttle Body)	1
3	1540643	Capscrew	4
4	1632305	Tube Assy	1
5	1632304	Tube Assy	1
6	4013329	Bracket	2
7	4013328	Fuel Rail (LH)	1
8	1527876	Capscrew	8
9	4013327	Fuel Rail (RH)	1
10	1632300	Sensor (Fuel Pressure)	1
11	4013301	Injector	6
12	4013302	O-Ring	6
13	4013303	O-Ring	6
14	4013299	O-Ring	6
15	4013304	Adapter	6
15	1557565	O-Ring	6
15	1632306	Lubricant	AR
16	15347	Fitting	1
	246108	Sealant	AR

LPG REGULATOR (FIGURE 3-10) GM 4.3L LPG



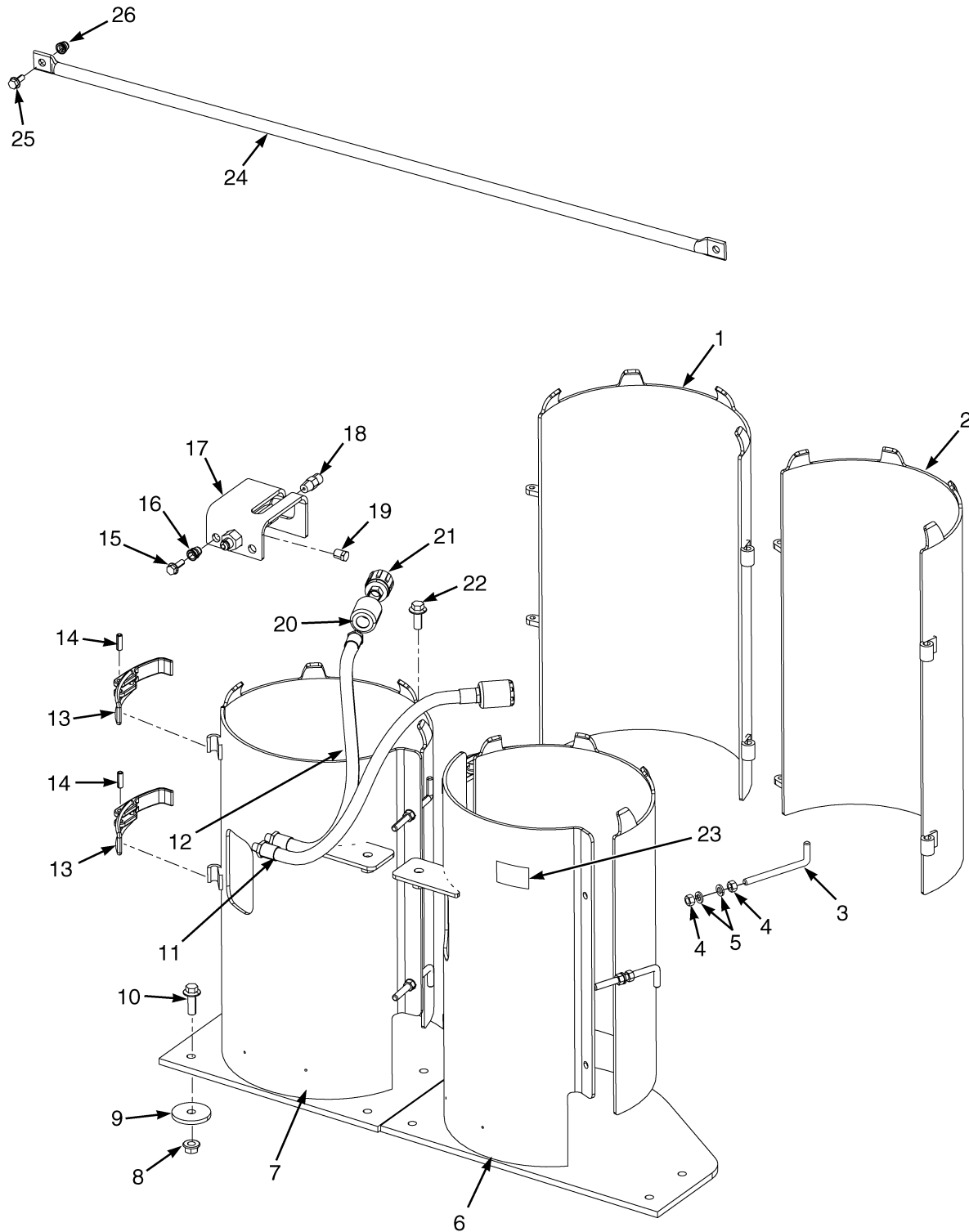
HP130352

LPG REGULATOR
GM 4.3L LPG

ITEM	PART NO.	DESCRIPTION	QTY
	a 2056762	LPG Converter	1
	b 4602051	LPG Converter	1
1	1581762	Fitting (Inlet Fitting With O-Ring)	1
2	1581763	Fitting (Outlet Fitting With O-Ring)	1
3	1581764	Drain Plug (With O-Ring)	1
4	1585751	Kit-Screw (With Connector Screw)	1
5	1585748	Kit-O-Ring (With Coolant Fitting O-Ring)	1
6	1585747	LPG Lock-Off	1
7	1581761	Kit-Filter	1
7		O-Ring	1
7		Plastic Cap	1
7		Foam Filter	1
7		Paper Filter	1
7		Rubber Washer	1
7		Screen	1
	b 1692176	Kit-Repair LPG Converter	1
		Diaphragm	1
		Barrier, Lower	1
		Barrier, Upper	1
		Rubber Seal, High Pressure	1
		Support (For Rubber Seal)	1
		Pivot Pin	1
		Screw (For Pivot Pin)	1
		Washer	1
		Washer, Anti-Friction	1
	4600754	Fitting	1

FOOTNOTES:**a** → S/N J006V02294G**b** S/N J006V02295G →

SINGLE AND DUAL LPG TANK BRACKETS (FIGURE 3-11)



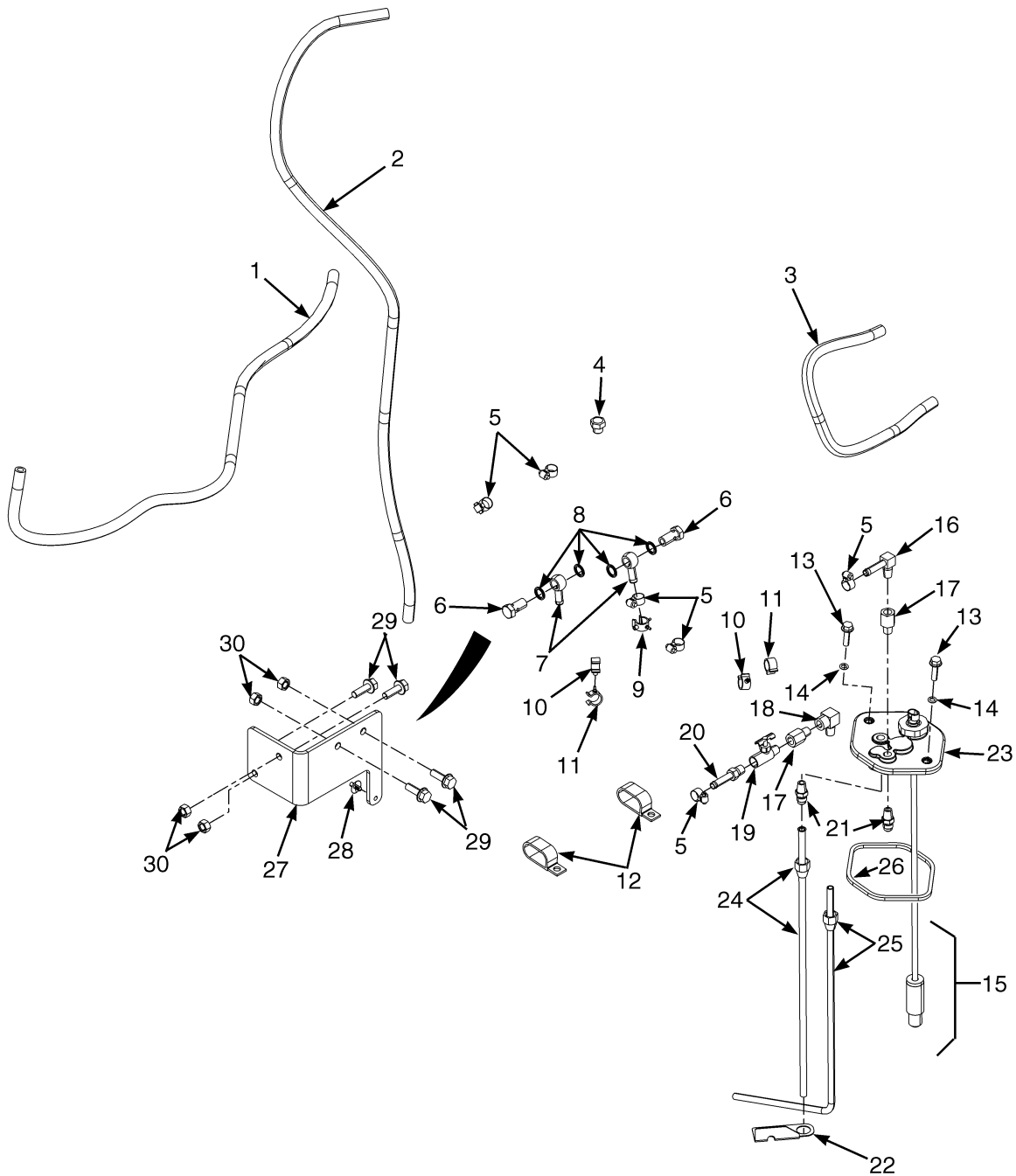
BP130268

SINGLE AND DUAL LPG TANK BRACKETS**KEY:****A: Single****B: Dual**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1649891	Cover (43.5 lb Front)	1	..
1	1649890	Cover (33.5 lb Front)	..	1
2	1651063	Cover (43.5 lb Rear)	..	1
2	1649889	Cover (33.5 lb Rear)	..	1
3	98334	Pin	2	4
4	15006	Nut	4	8
5	15156	Lockwasher	4	8
6	1657439	LPG Tank Bracket (33.5, 43.5 lb Rear)	..	1
7	1657438	LPG Tank Bracket (33.5, 43.5 lb Front)	1	1
8	1528888	Nut (Shoulder)	5	10
9	300939	Washer	4	8
10	1527888	Capscrew	4	8
11	2094438	Hose Assy (43.5 lb)	1	2
12	2083136	Hose Assy (33.5 lb)	1	2
13	1650496	Latch	2	4
14	19923	Roll Pin	2	4
15	1510113	Capscrew	2	2
16	1530243	Insert	2	2
17	1614156	Bracket Wldmt	1	1
18	101809	Relief Valve	1	1
19	14385	Fitting	1	..
20	2071517	Sleeve	1	2
21	97999	Fitting	1	2
22	1528889	Capscrew	1	2
23	1354171	Label (Flammable LPG)	1	1
24	1661150	Barrier	1	1
25	1527880	Capscrew	2	2
26	1531557	Insert	2	2
	a 1501259	Nameplate (LP Tank)	1	2
	a 1501258	Nameplate (LP Tank)	..	2
	a 170658	Rivet	4	6
	a 2098848	Label (LPG Tank Quantity)	..	1

FOOTNOTES:**a** Not Illustrated

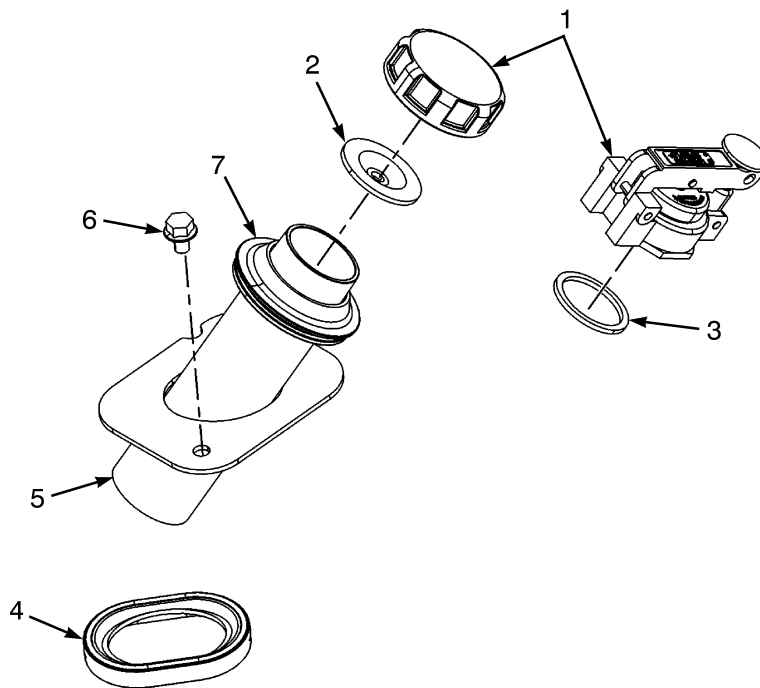
FUEL SYSTEM (FIGURE 3-12) CUMMINS QSB 3.3L DIESEL



BP130177

FUEL SYSTEM
CUMMINS QSB 3.3L DIESEL

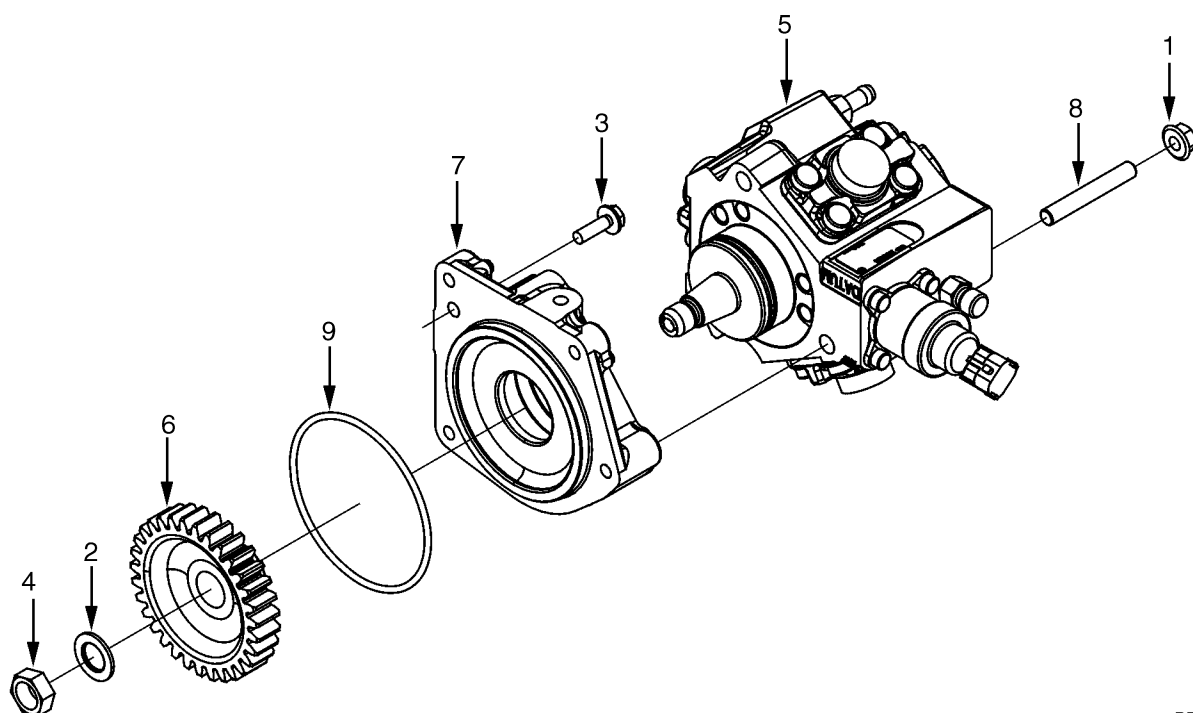
ITEM	PART NO.	DESCRIPTION	QTY
1	1665636	Hose	1
2	1665637	Hose	1
3	1665638	Hose	1
4	1668425	Plug	1
5	168718	Clamp	6
6	1673878	Screw	2
7	1673877	Fitting	2
8	1513714	Sealing Ring	4
9	1502057	Clamp	1
10	1606544	Clamp	4
11	1543698	Clamp (Swivel)	2
12	176454	Clamp	2
13	1527881	Capscrew	2
14	353000	O-Ring	2
15	1676919	Fuel Sender Assembly	1
15	1551828	Fuel Sender	1
16	17353	Fitting	1
17	12855	Fitting	1
18	17314	Fitting	1
19	16190	Drain Valve (Shutoff)	1
20	17352	Fitting	1
21	16134	Fitting	2
22		Bracket	1
23	1584171	Cover	1
24	1590977	Tube-Wldmt	1
24	16121	Fitting	1
25	1640901	Tube	1
25	16121	Fitting	1
26	1528893	Quad Ring	1
27	1676918	Bracket	1
28	1543842	Clamp	1
29	1663739	Bolt	4
30	292655	Nut	4

FUEL CAP (FIGURE 3-13)
DIESEL

BP130296

ITEM	PART NO.	DESCRIPTION	QTY
1	2081840	Fuel Cap	1
1	a 1579677	Fuel Cap	1
2	2021683	Gasket	1
3	a 2021685	Gasket	1
4	1528314	Seal	1
5	1564392	Pipe (Fill)	1
6	4529366		
	4011940	Capscrew	2
7	1528608	Grommet	1

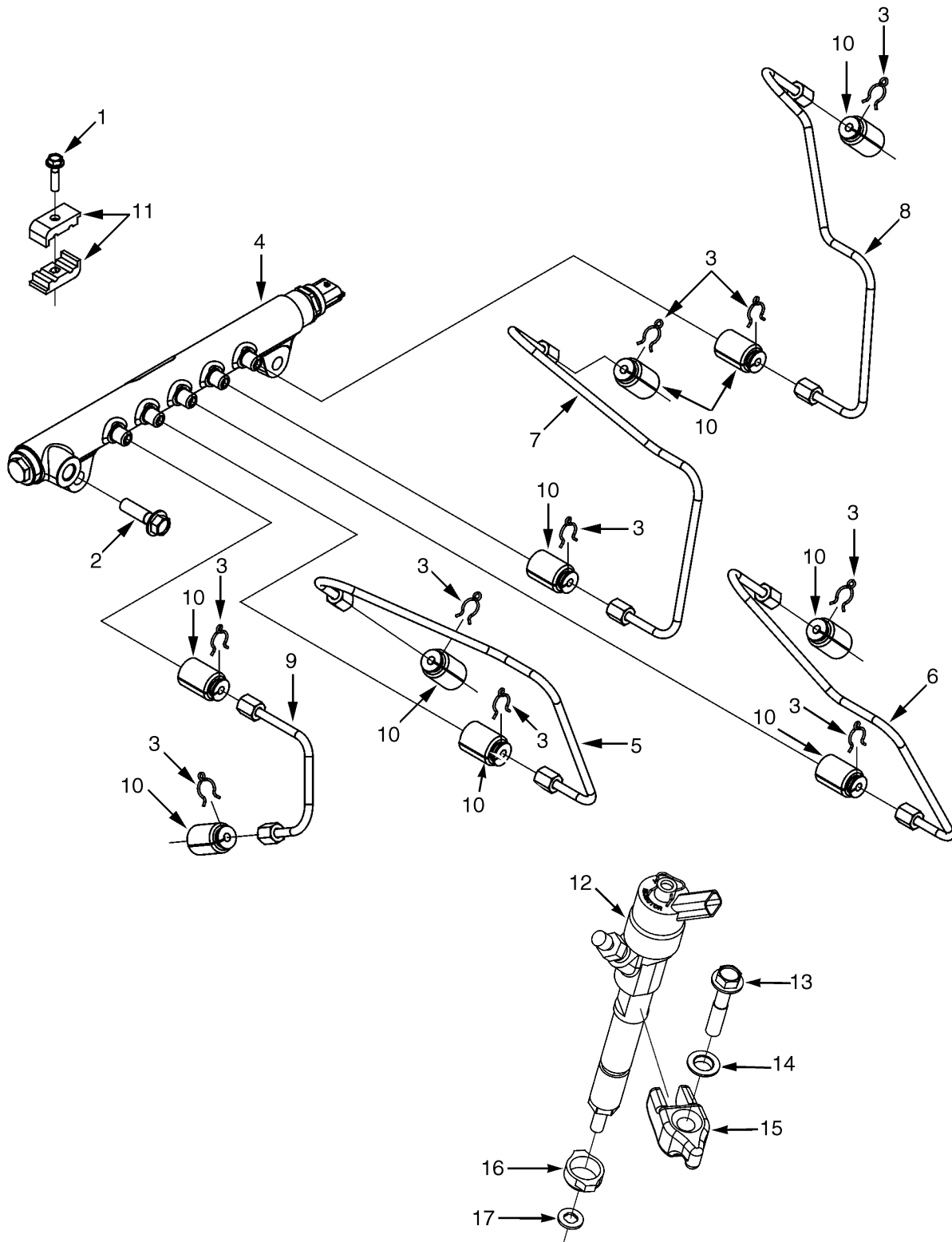
FOOTNOTES:**a** Safety Option

FUEL INJECTION PUMP (FIGURE 3-14)
CUMMINS QSB 3.3L DIESEL

BP130035

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691806	Clamp	3
2	1691807	Washer	1
3	1691808	Capscrew	1
4	1691809	Nut	1
5	1691810	Fuel Pump	1
6	1691811	Gear	1
7	1691812	Support	1
8	1691813	Stud	3
9	1691816	Seal	1

FUEL INJECTOR AND INJECTOR PLUMBING (FIGURE 3-15) CUMMINS QSB 3.3L DIESEL

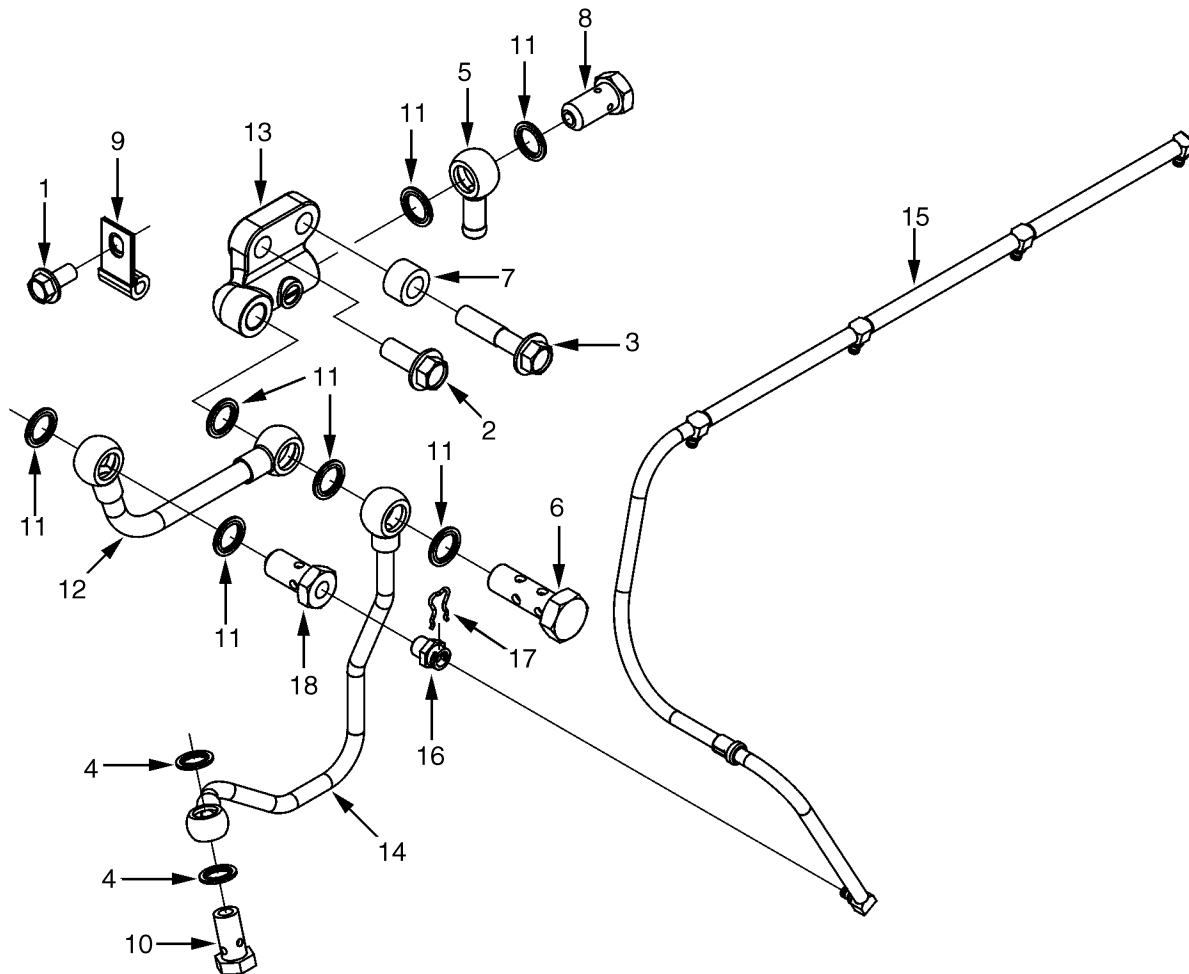


BP130018

FUEL INJECTOR AND INJECTOR PLUMBING
CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691886	Capscrew	2
2	1691653	Capscrew	2
3	1691664	Clip	10
4	1691665	Manifold (Fuel Rail)	1
5	1691836	Tube (Injector Fuel Supply)	1
6	1691872	Tube (Injector Fuel Supply)	1
7	1691874	Tube (Injector Fuel Supply)	1
8	1691884	Tube (Injector Fuel Supply)	1
9	1691982	Tube (Injector Fuel Supply)	1
10	1691983	Cover	10
11	1691984	Clamp	4
12		Injector	4
13	1691909	Capscrew	4
14	1691911	Washer	4
15	1691632	Capscrew	4
16	1691608	Dust Seal	4
17	1691912	Gasket	4
	1691914	Kit-Injector	4

FUEL PUMP PLUMBING (FIGURE 3-16) CUMMINS QSB 3.3L DIESEL

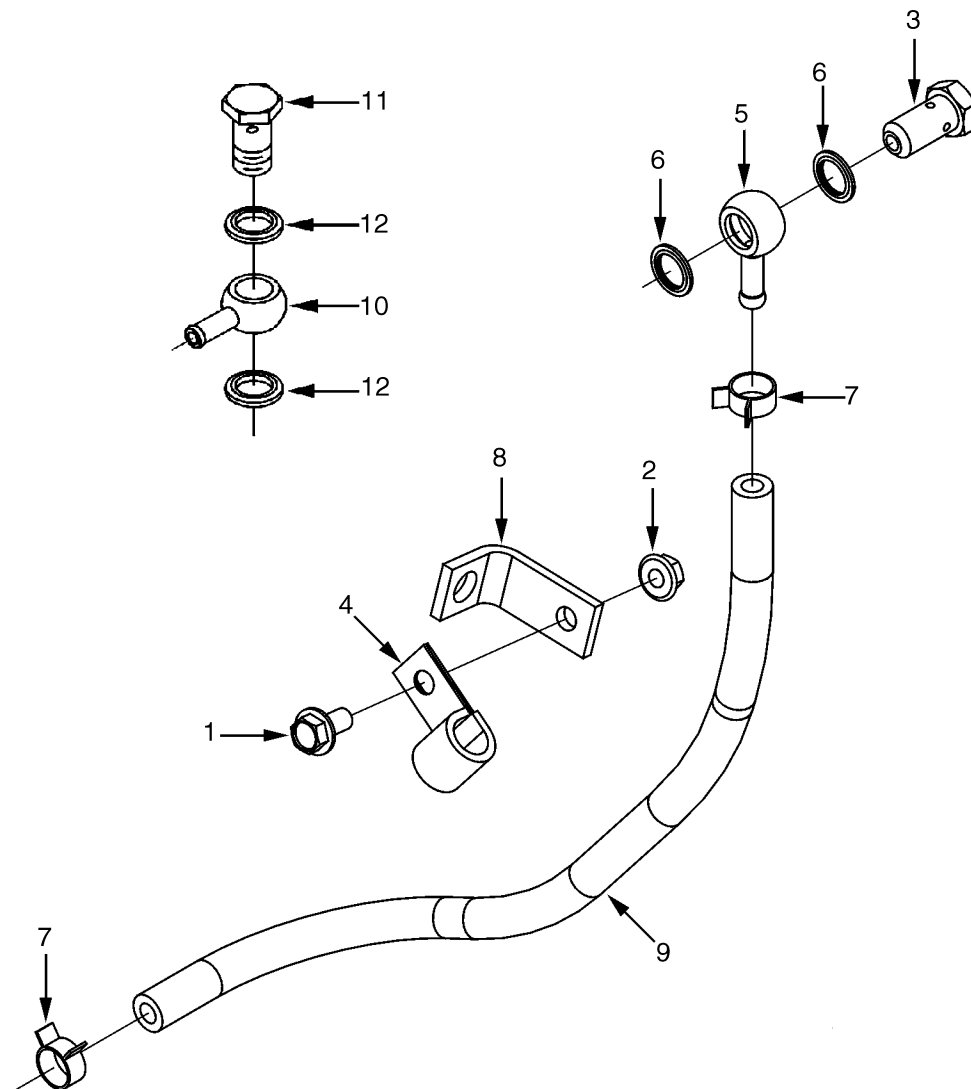


BP130020

**FUEL PUMP PLUMBING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691853	Capscrew	1
2	1691660	Capscrew	1
3	1644113	Capscrew	1
4	1691824	Gasket	2
5	1673877	Fitting (Banjo Connector)	1
6	1691826	Screw (Banjo Connector)	1
7	1691827	Spacer	1
8	1673878	Screw (Banjo Connector)	1
9	1691669	Clip	1
10	1691670	Screw (Banjo Connector)	1
11	1513714	Sealing Ring	7
12	1691671	Tube (Fuel Supply)	1
13	1691672	Adapter (Fuel Connector)	1
14	1691673	Tube (Fuel Supply)	1
15	1691674	Hose	1
16	~~1691675~~		
	4017851	Connector (Banjo)	1
17	1691676	Roll Pin	1
18	1691677	Screw (Banjo Connector)	1

FUEL FILTER PLUMBING (FIGURE 3-17) CUMMINS QSB 3.3L DIESEL



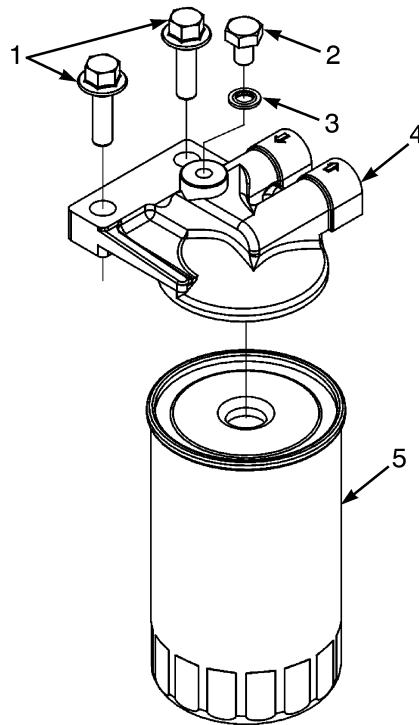
BP130042

**FUEL FILTER PLUMBING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	b 1691853	Capscrew	1
2	b 1691654	Nut	1
3	b 1673878	Screw (Banjo Connector)	1
4	b 1691655	Clip	1
5	b 1691656	Coupling	1
6	b 1513714	Sealing Ring	2
6	4004645	Washer (Copper) (Alternate Part)	2
7	b 1691657	Clip	2
8	b 1691658	Plate (Clamping)	1
9	b 1691659	Hose	1
10	a 1673877	Fitting (Banjo Connector)	1
11	a 1673878	Screw	1
12	a 1513714	Sealing Ring	2
12	4004645	Washer (Copper) (Alternate Part)	2

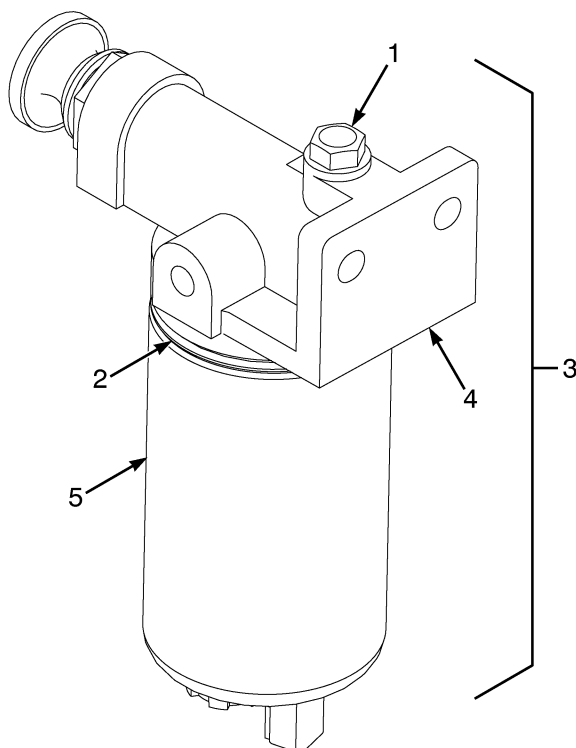
FOOTNOTES:**a** Fuel Inlet**b** Mounting Location: Fuel Pump Side Middle Mount

FUEL FILTER (FIGURE 3-18) CUMMINS QSB 3.3L DIESEL



BP130150

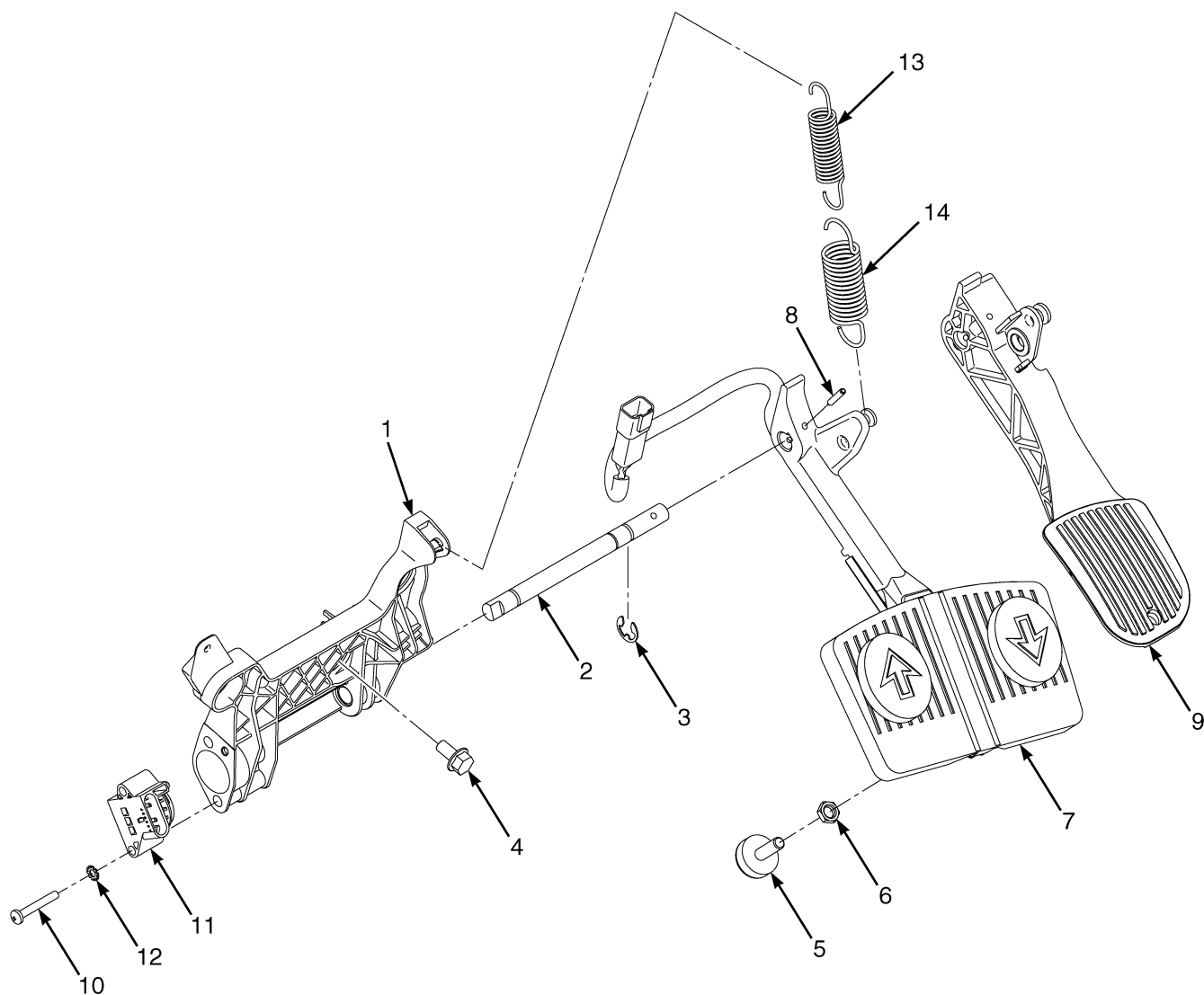
ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1543337	Capscrew	1
2	1691649	Plug	1
3	1691650	Washer	1
4	1691651	Filter Head	1
5	1691652	Fuel Filter	1

WATER SEPARATOR (FIGURE 3-19)
CUMMINS QSB 3.3L DIESEL

BP130138

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691817	Plug	1
2	1691818	Seal	1
3	1691819	Fuel Filter	1
4		Filter Head	1
5	1691821	Cartridge (Includes Sensor)	1

THROTTLE PEDAL AND ATTACHING PARTS (FIGURE 3-20)



HP130383

THROTTLE PEDAL AND ATTACHING PARTS

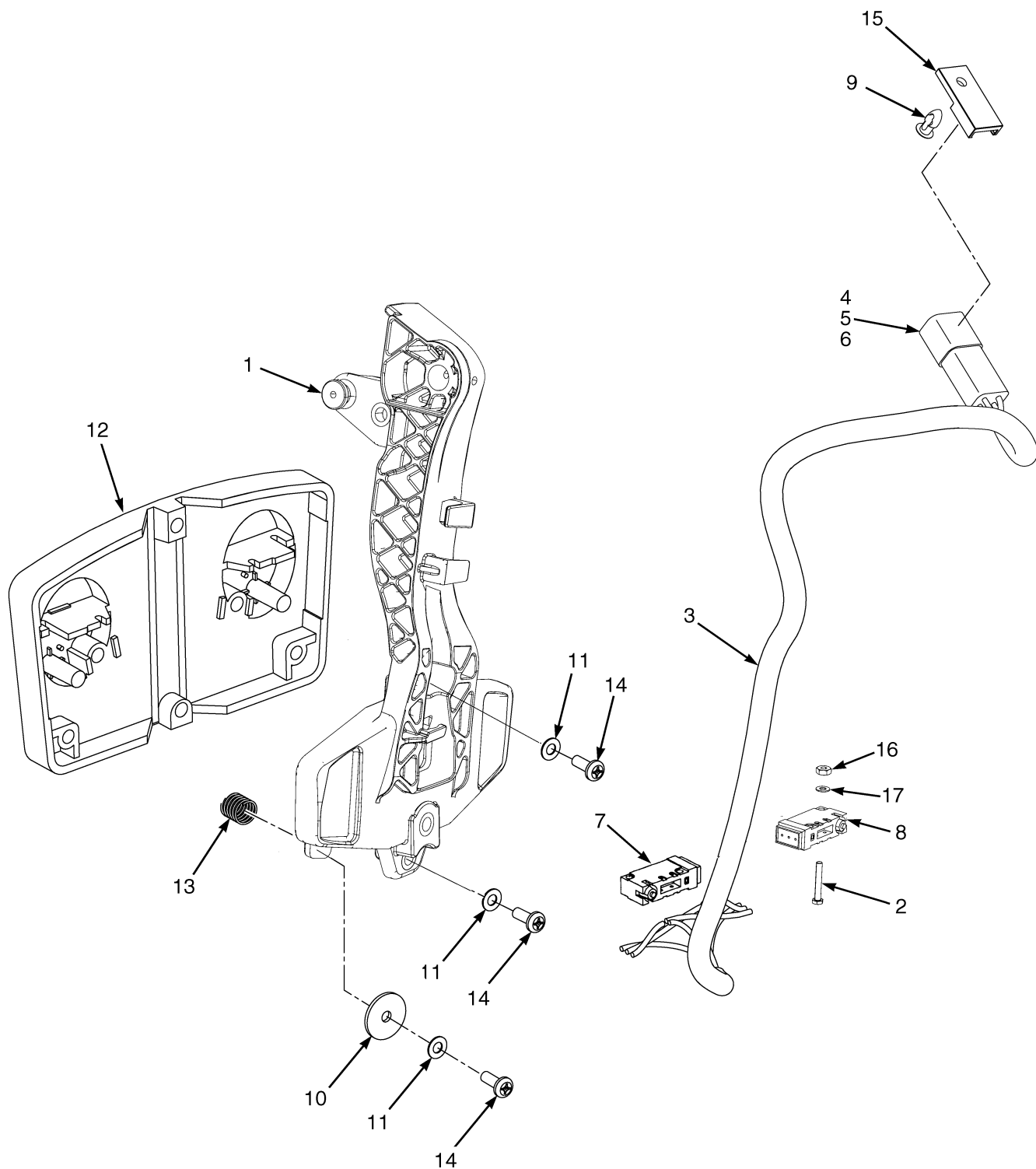
ITEM	PART NO.	DESCRIPTION	QTY
1	1654411	Throttle Plate	1
1	1524267	Bushing	1
2	1654754	Shaft	1
3	1530971	E-Ring	1
4	1527879	Capscrew	3
5	1530311	Screw (Stop)	1
6	329069	Nut	1
7	1608412	Monotrol Pedal Assembly (☞ Figure 3-21).....	1
8	a 302437	Roll Pin	1
8	b 302443	Roll Pin	1
9	2071181	Pedal (Standard)	1
10	1564752	Capscrew	2
11	2063842	Sensor (Half Throttle Position)	1
12	296378	Washer	2
13	1582301	Spring (Inner)	1
14	1582300	Spring (Outer)	1
	c 1654156	Shim	AR

FOOTNOTES:

- a** For Use With Monotrol Pedal Only
b For Use With Standard Pedal Only

- c** Not Illustrated

MONOTROL PEDAL ASSEMBLY (FIGURE 3-21)



BP130201

MONOTROL PEDAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1608412	Monotrol Pedal Assembly	1
1	2074702	Pedal	1
2	220428	Screw	4
3	2072782	Wire Harness	1
4	1330416	Connector	1
5	1489655	Connector (4 Way)	1
6	1531312	Terminal	4
7		Switch	1
8		Switch	1
9	1582464	Fastener	1
10	362036	Washer	2
11	15931	Lockwasher	4
12	1340470	Pad	1
13	325699	Spring	2
14	16708	Screw	4
15	1500912	Clip	1
16	16865	Nut	4
17	53162	Lockwasher	4

[illegible]

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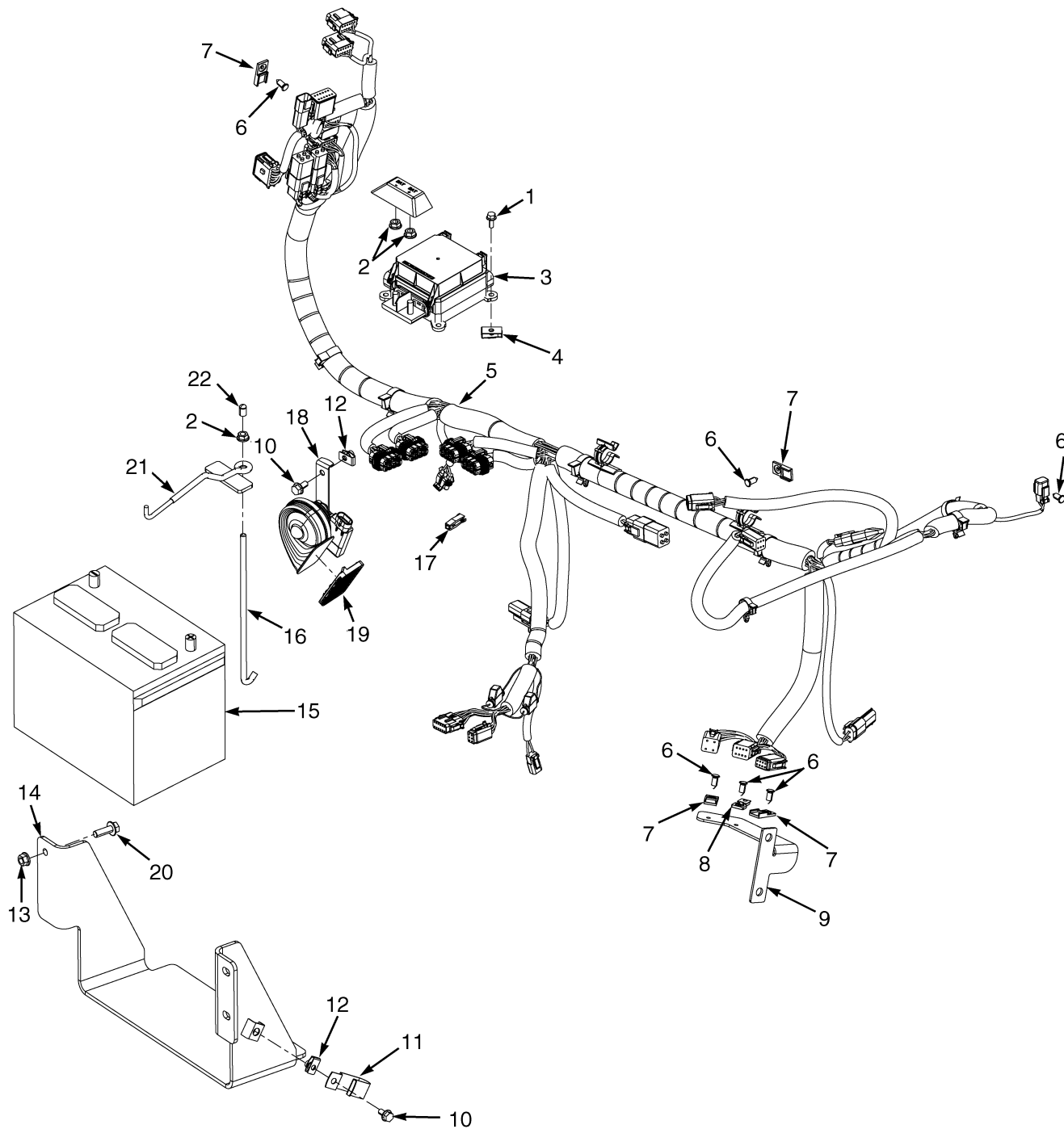
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ELECTRICAL SYSTEM**

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NOTES

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ELECTRICAL SYSTEM (FIGURE 4-1) RIGHT HAND CHASSIS — GM 4.3L GASOLINE AND LPG



BP080583

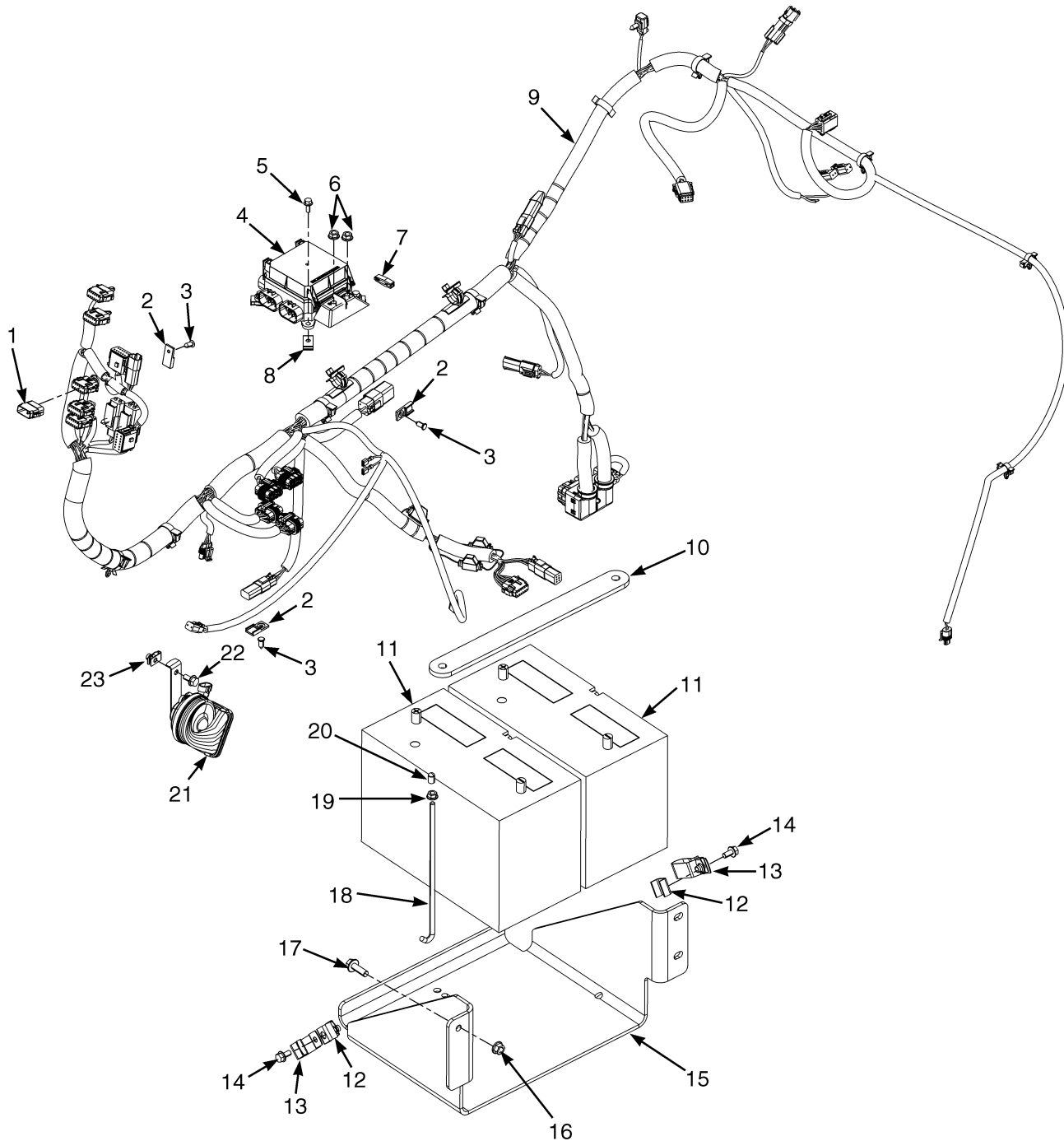
ELECTRICAL SYSTEM
RIGHT HAND CHASSIS – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1527876	Capscrew	4
2	1502543	Nut (Flange)	3
3	2090613	Module (☞Figure 4-28).....	1
4	1350215	Nut	4
5	2105725	Wire Harness (RH Chassis) (☞Figure 4-35).....	1
6	1582464	Fastener	9
7	1500912	Clip	7
8	1531480	Clip	1
9	1657411	Bracket	1
10	1527879	Capscrew	3
11	1544157	Clip	2
12	1480237	Nut	3
13	1460477	Nut	3
14	1663948	Battery Tray	1
15	1643937	Start Battery Wet	1
16	2065745	Link (Battery Hold Down)	1
17	1402883	Fuse Puller	1
18	1618978	Horn	1
19	1638987	Shield	1
20	1527884	Capscrew	3
21	1638706	Link (Battery Hold Down)	1
22	1540805	Cap	1
	a 1593331	Connector	1

FOOTNOTES:

a Not Illustrated

ELECTRICAL SYSTEM (FIGURE 4-2) RIGHT HAND CHASSIS — CUMMINS QSB 3.3L DIESEL



BP080763

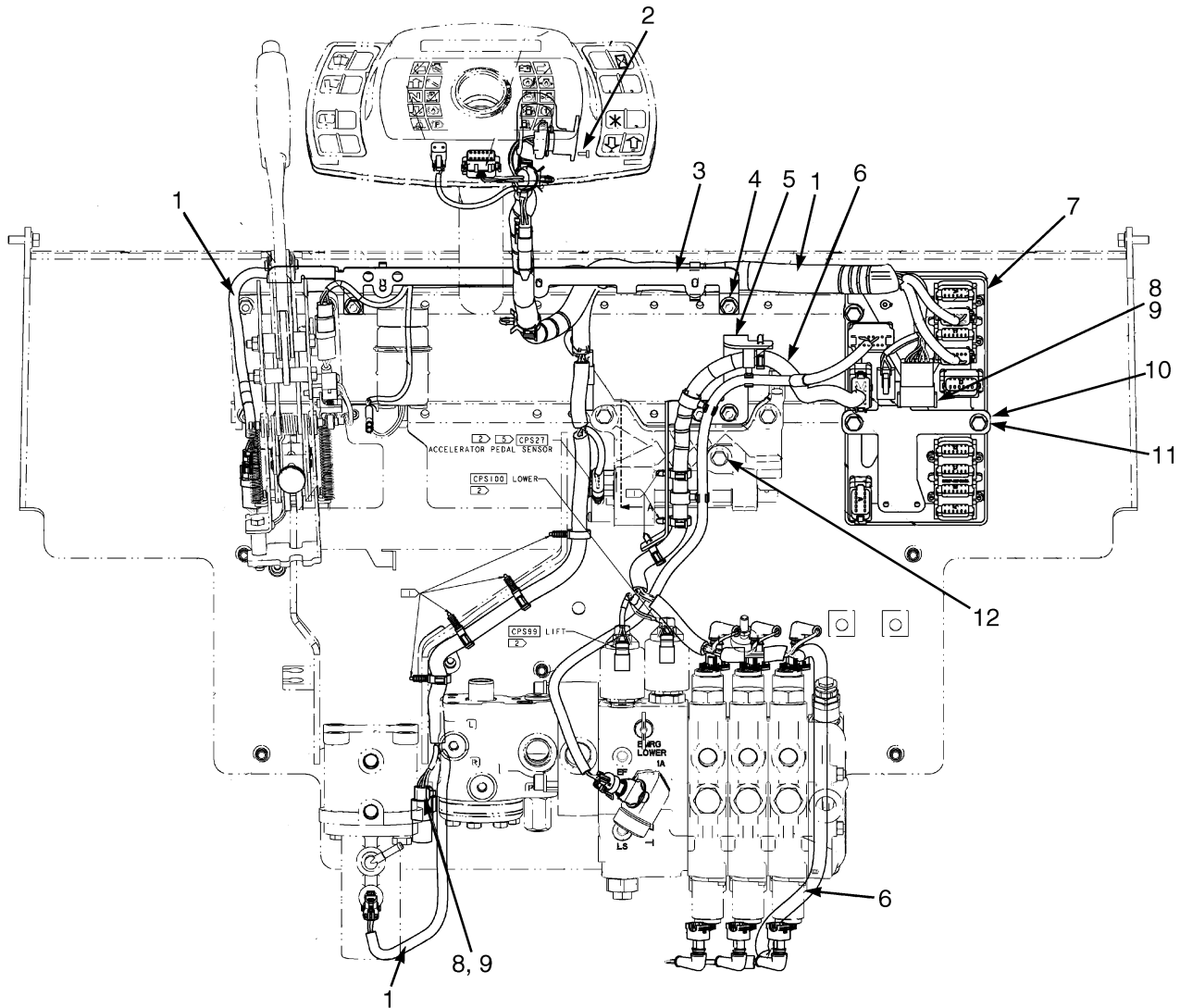
ELECTRICAL SYSTEM
RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1593331	Connector	1
2	1500912	Clip	5
3	1582464	Fastener	6
4	2090613	Module	1
5	1527876	Capscrew	4
6	1502543	Nut (Flange)	2
7	1402883	Fuse Puller	1
8	1350215	Nut	4
9	2105725	Wire Harness (Right Hand Chassis)	1
10	1663747	Bracket	1
11	1643937	Start Battery Wet	2
11	a 1399332	Start Battery Wet	2
12	1480237	Nut	2
13	1544157	Clip	2
14	1527879	Capscrew	2
15	1663954	Battery Tray	1
16	1460477	Nut	3
17	1527884	Capscrew	3
18	2065745	Link (Battery Hold Down)	2
19	1502543	Nut (Flange)	2
20	1540805	Cap	2
21	1618978	Horn	1
22	1527879	Capscrew	1
23	1480237	Nut	1

FOOTNOTES:

a Optional

COWL ELECTRICAL (FIGURE 4-3) ELECTRIC HYDRAULIC



BP080588

**COWL ELECTRICAL
ELECTRIC HYDRAULIC****KEY:****A: With Return to Set Tilt****B: Without Return to Set Tilt**

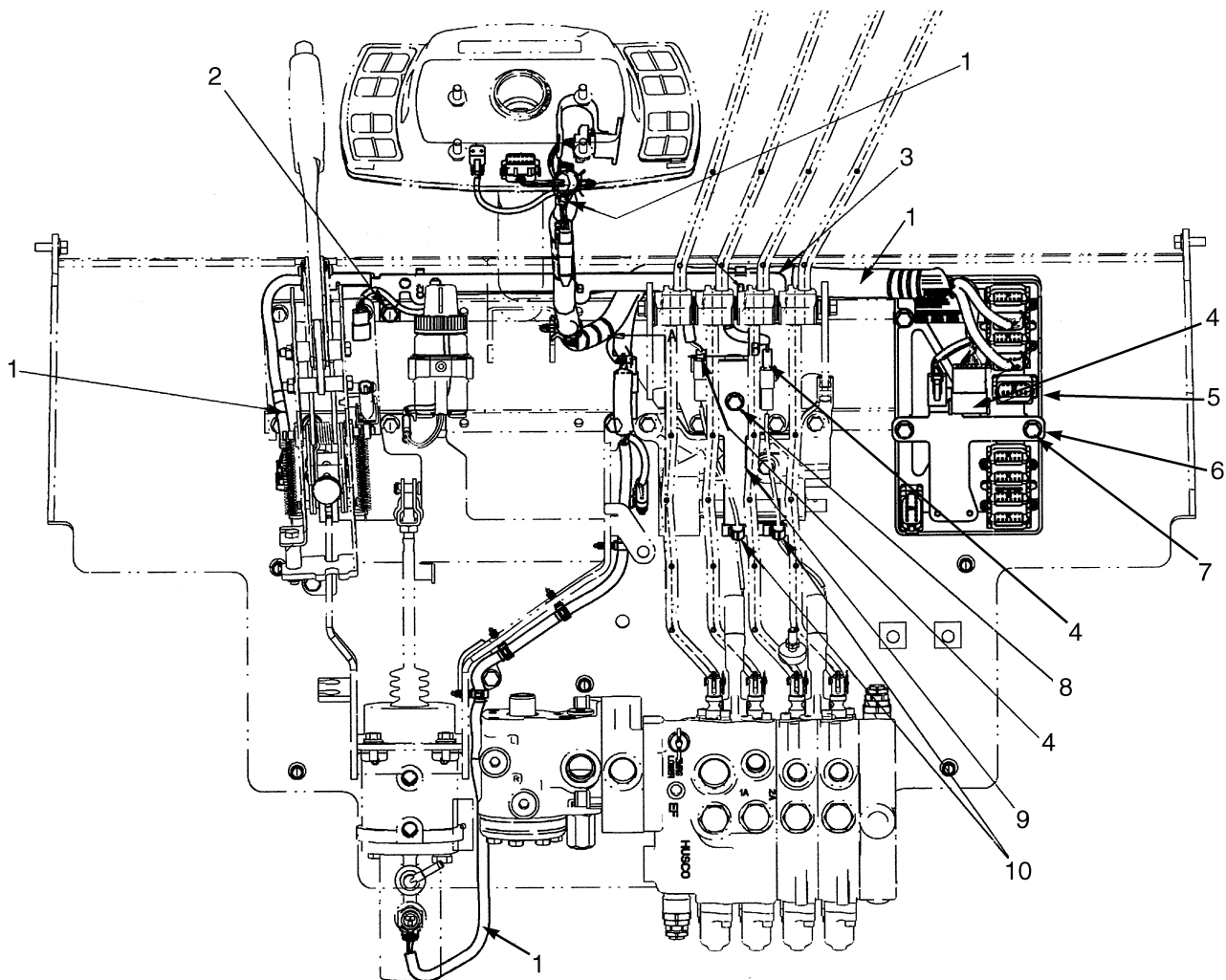
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	f 2098011	Wire Harness (Cowl with Monotrol Pedal) (Gasoline and LPG)	1	..
1	f 2098012	Wire Harness (Cowl with Forward/Reverse Lever) (Gasoline and LPG)	..	1
2	1554902	Screw	2	2
3	1600190	Bracket	1	1
3	2111004	Bracket (Left Hand) (Alternate Part)	1	1
3	2111005	Bracket (Right Hand) (Alternate Part)	1	1
4	~~1529366~~			
	4011940	Capscrew	2	2
4	~~1529366~~			
	4011940	Capscrew (Alternate Part)	2	2
5	1531975	Bracket	1	1
6	a 2058909	Wire Harness (Electronic Control Valve) (☞ Figure 4-53).....	1	1
6	c 2060198	Wire Harness (Electronic Control Valve) (☞ Figure 4-52).....	1	1
7	e 2068343	Vehicle System Manager (VSM) -8525420	1	1
7	d 2068344	Vehicle System Manager (VSM) -8525421	1	1
8	1500912	Clip	3	1
9	1582464	Fastener	3	1
10	1582465	Bracket	1	1
11	1510115	Capscrew	3	3
12	~~1529366~~			
	4011940	Capscrew	2	2
	b 1563841	Dust Cap	1	1

FOOTNOTES:

a Four Function
b Not Illustrated
c Three Function

d With Electronic Hydraulics and Cab
e With Electronic Hydraulics and Overhead Guard
f With Hydraulic Pump Solenoid

COWL ELECTRICAL (FIGURE 4-4) MANUAL HYDRAULIC



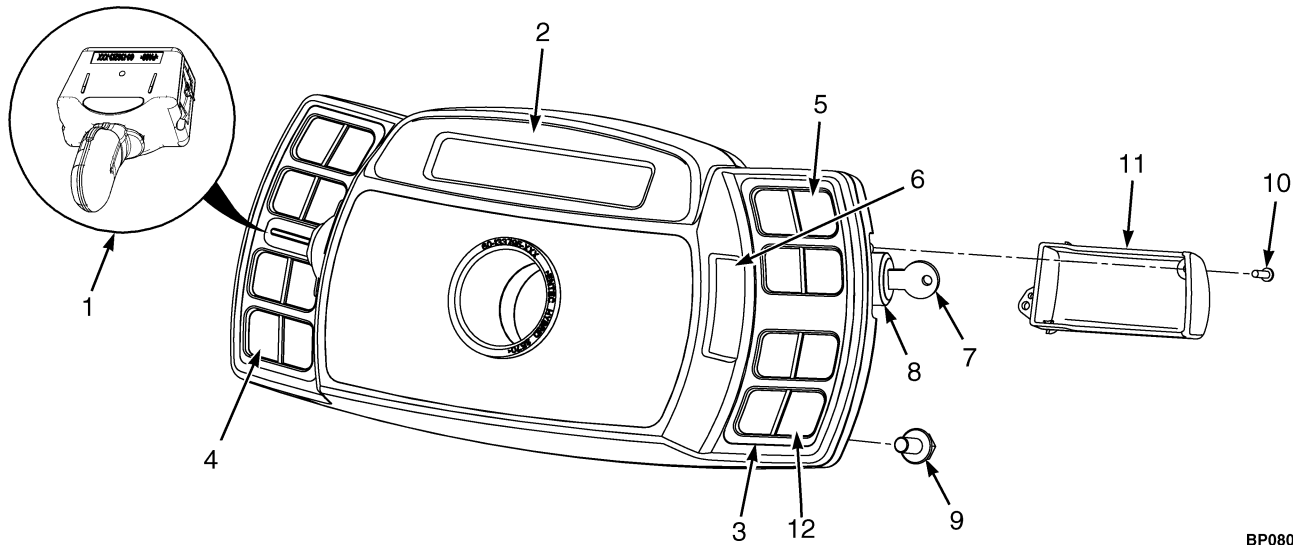
BP080709

**COWL ELECTRICAL
MANUAL HYDRAULIC**

ITEM	PART NO.	DESCRIPTION	QTY
1	2104701	Wire Harness	1
1	2104702	Wire Harness (Forward/Reverse Lever)	1
1	4603281	Wire Harness (With Monotrol)(Alternate Part) (☞ Figure 4-44).....	1
1	4603282	Wire Harness (With Forward/Reverse Lever)(Alternate Part) (☞ Figure 4-46).....	1
2	1529366		
	4011940	Capscrew	2
3	1600190	Bracket	1
3	2111004	Bracket (Left Hand) (Alternate Part)	1
3	2111005	Bracket (Right Hand) (Alternate Part)	1
4	1500912	Clip	4
4	1582464	Fastener	4
5	a 2068342	Vehicle System Manager (VSM) -8525419	1
6	1582465	Bracket	1
7	1510115	Capscrew	3
8	1528482	Capscrew	1
8	1398062	Nut	1
9	1686719	Bracket	1
10	1562088	Clip	2

FOOTNOTES:**a** Without Electronic Hydraulics

INSTRUMENT CLUSTER (FIGURE 4-5)



BP080816

ITEM	PART NO.	DESCRIPTION	QTY
1	b 2102904	Lever (Detent Forward and Reverse)	1
1	c 4604594	Lever	1
2	2076696	Display (With Cab)	1
2	2076695	Display (With Overhead Guard)	1
3	2066485	Bezel (Display Cluster)	2
4	2069431	Label (Blank) (LH Display with Overhead Guard)	1
4	2066483	Label (LH Display with Cab)	1
5	2066484	Label (RH Display, All Options)	1
6	2060032	Cover (Display Lever)	1
7	1337197	Key Set	1
8	2057948	Ignition Switch (Without Keys)	1
9	1527879	Capscrew	4
10	1554902	Screw	5
11	2060033	Cover (Keyswitch)	1
12	a 2066482	Label (RH Display)	1

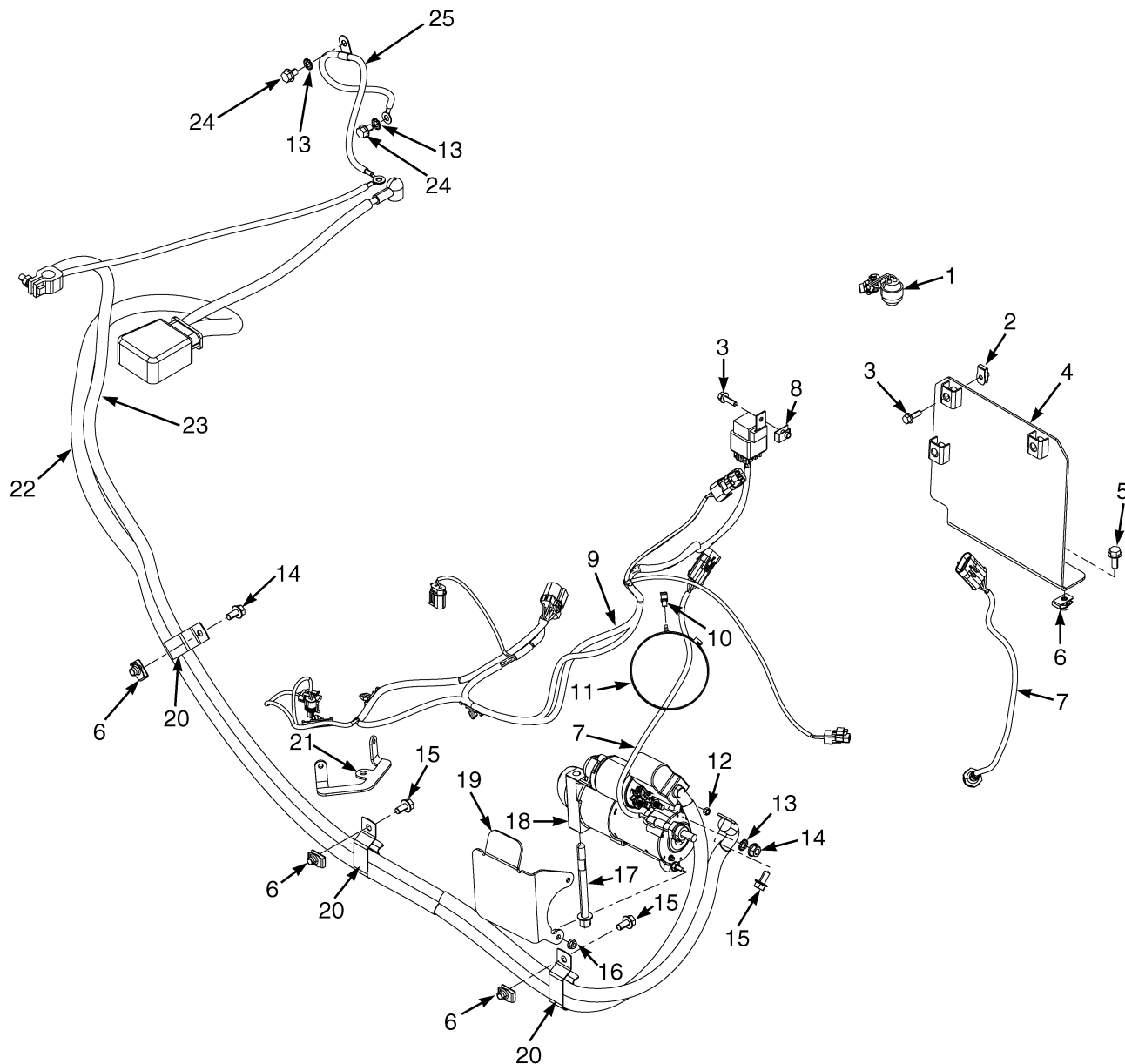
FOOTNOTES:

- a** Remove Panels From Overlay as Required For Truck Configuration.
- b** → S/N J006V02611H
- c** S/N J006V02612H →

NOTES

[illegible]

ENGINE ELECTRICAL SYSTEM (FIGURE 4-6) GM 4.3L, GASOLINE AND LPG



BP080590

ENGINE ELECTRICAL SYSTEM
GM 4.3L, GASOLINE AND LPG**KEY:****A: Gasoline****B: LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1529257	Sensor (Air Flow Restriction)	1	1
2	1566420	Nut	3	3
3	1527877	Capscrew	4	4
4	1652220	Bracket Wldmt	1	1
5	1527880	Capscrew	3	3
6	1480237	Nut	6	6
7	1557546	Oxygen Sensor (With Wire Harness)	2	2
8	1350215	Nut	1	1
9	a 2094677	Wire Harness (LH Chassis) (2008-2009 Series) (☞ Figure 4-39).....	1	..
9	a 2094678	Wire Harness (LH Chassis) (2008-2009 Series) (☞ Figure 4-41).....	..	1
9	b 4604430	Wire Harness (LH Chassis) (2010 Series) (☞ Figure 4-40).....	1	..
9	b 4604389	Wire Harness (LH Chassis) (2010 Series) (☞ Figure 4-42).....	..	1
9	b 4604394	Wire Harness (LH Chassis) (2010 Series) (☞ Figure 4-43).....	..	1
10	1561871	Clamp (Swivel)	1	1
11	1502061	Clamp	1	1
12	292668	Nut	1	1
13	296380	Washer	3	3
14	1502543	Nut (Flange)	1	1
15	1527879	Capscrew	4	4
16	264148	Nut	2	2
17	1397716	Bolt	2	2
17	1677876	Bolt (Alternate Part)	2	2
18	1640531	Starter	1	1
19	1640818	Bracket	1	1
20	1544157	Clip	3	3
21	1402629	Bracket	1	..
22	2098768	Battery Cable (Positive) (☞ Figure 4-8).....	1	1
22	1590368	Terminal	1	1
23	2098769	Battery Cable (Negative) (☞ Figure 4-8).....	1	1
23	1616122	Terminal	1	1
24	4529366			
	4011940	Capscrew	2	2
25	2093220	Battery Cable (Negative)	1	1
25	806426	E-Ring	2	2
25	1564044	E-Ring	1	1

FOOTNOTES:**a** → PENDING PER ECN 10618101**b** PENDING PER ECN 10618101 →

This exploded view diagram illustrates the assembly of a mechanical component. The main assembly is shown on the left, with a central shaft (4) and a flange (8). A bracket (5) is attached to the top of the shaft. A cap (1) is shown above the main assembly, secured by two screws (6). A base (2) is shown below the main assembly, secured by two screws (7). A set of three washers (3) is shown below the base. A dashed line indicates the assembly path for the screws (6) and (7).

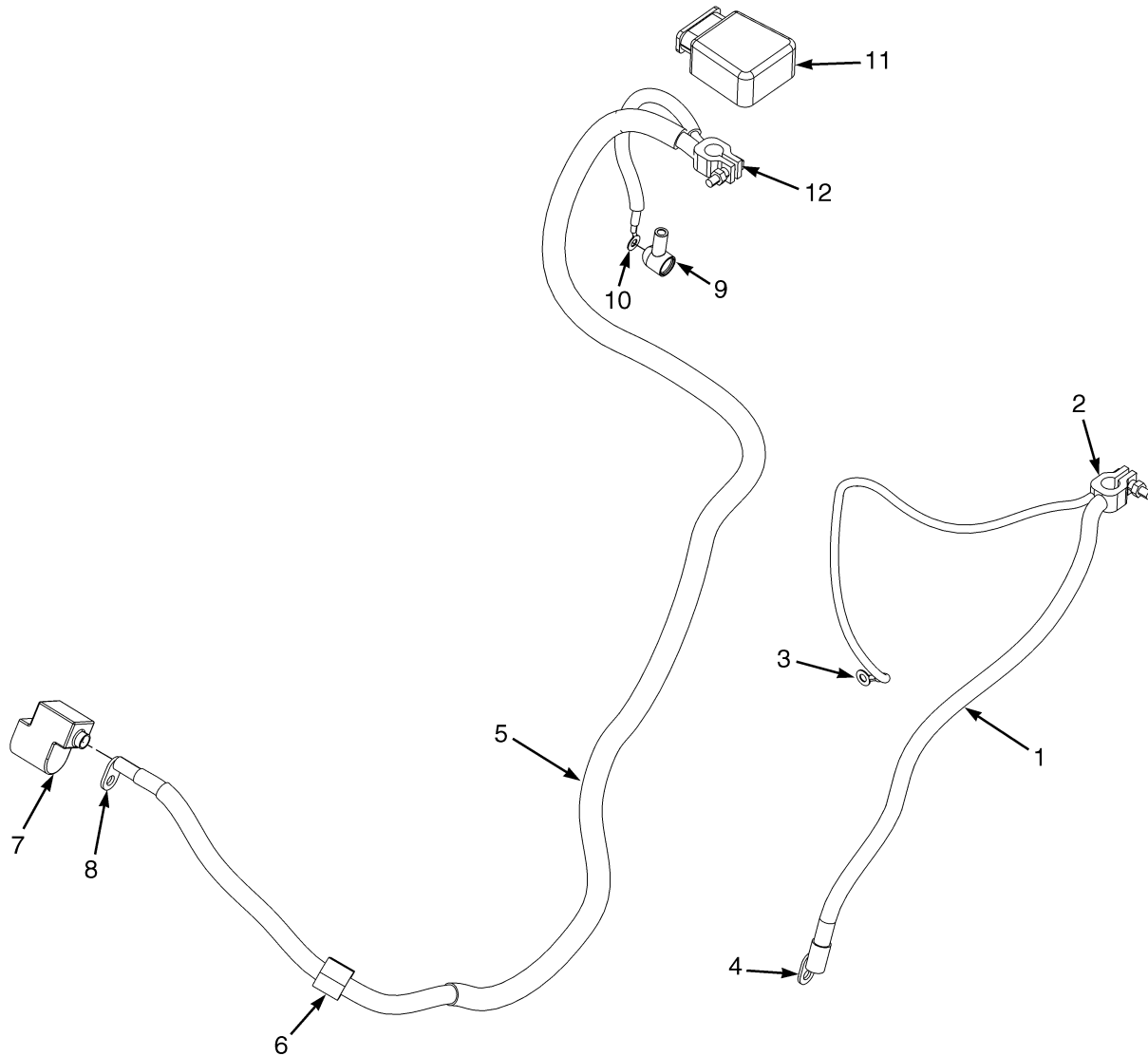
BP080184

ITEM	PART NO.	DESCRIPTION	QTY
	1559695	Distributor Assembly	1
1	1566458	Distributor Cap	1
2	1566459	Rotor	1
3	1559922	Kit-Gear	1
4	1334423	Gasket	1
5	1559923	Sensor (Cam)	1
6	1559924	Screw	4
7	1559925	Screw	2
8	1335497	Clamp	1

NOTES

[illegible]

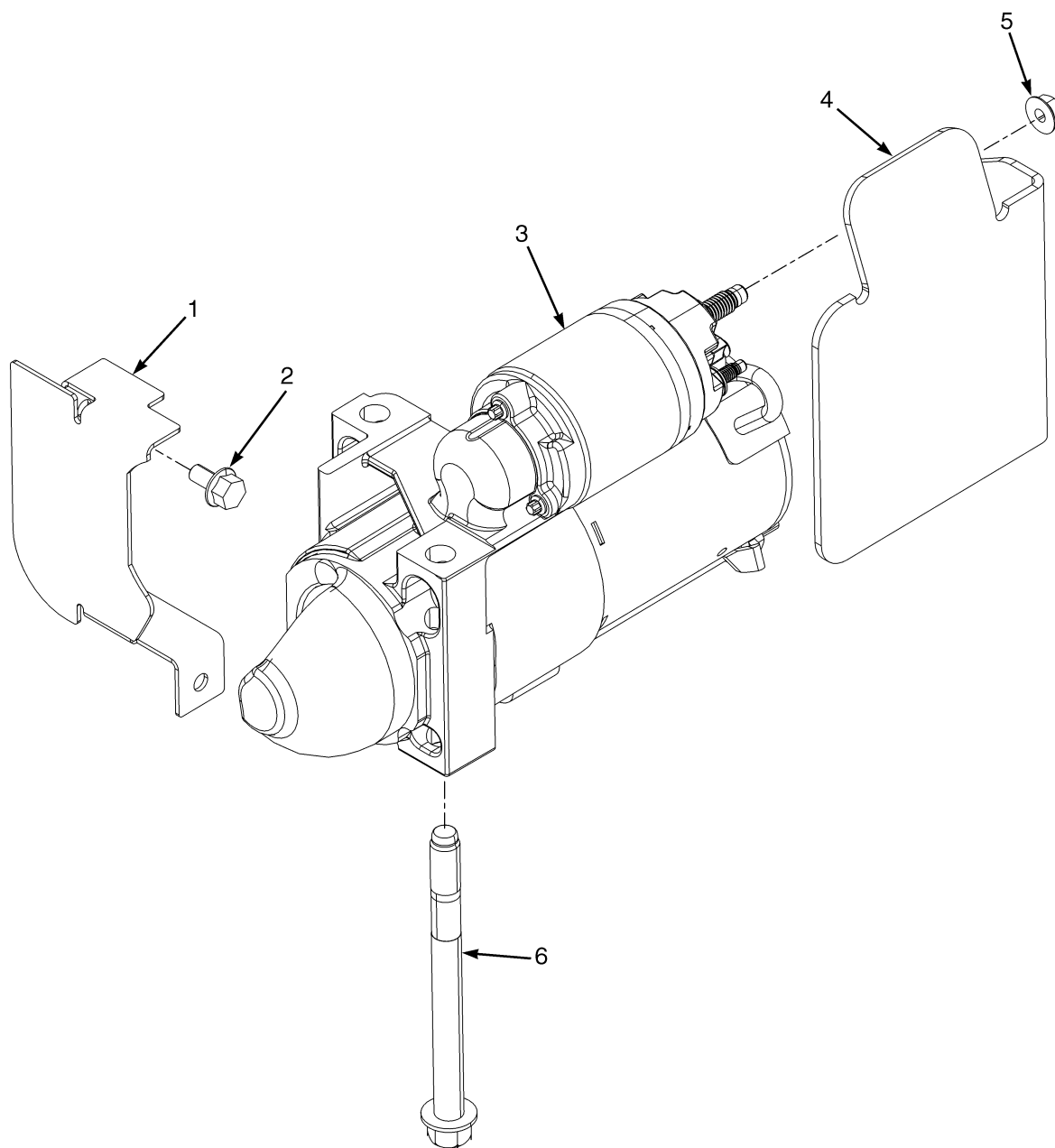
BATTERY CABLES (FIGURE 4-8) GM 4.3L GASOLINE AND LPG



BP080599

BATTERY CABLES
GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	2098769	Battery Cable (Negative)	1
2	148789	Terminal	1
2	1616122	Terminal	1
3	806426	E-Ring	1
4	16079	Terminal	1
5	2098768	Battery Cable (Positive)	1
5	1590368	Terminal	1
6	153070	Clamp	1
7	1590173	Boot	1
8		Terminal	1
9	1566146	Boot	1
10	806426	E-Ring	1
11	1536304	Boot	1
12	148792	Terminal	1

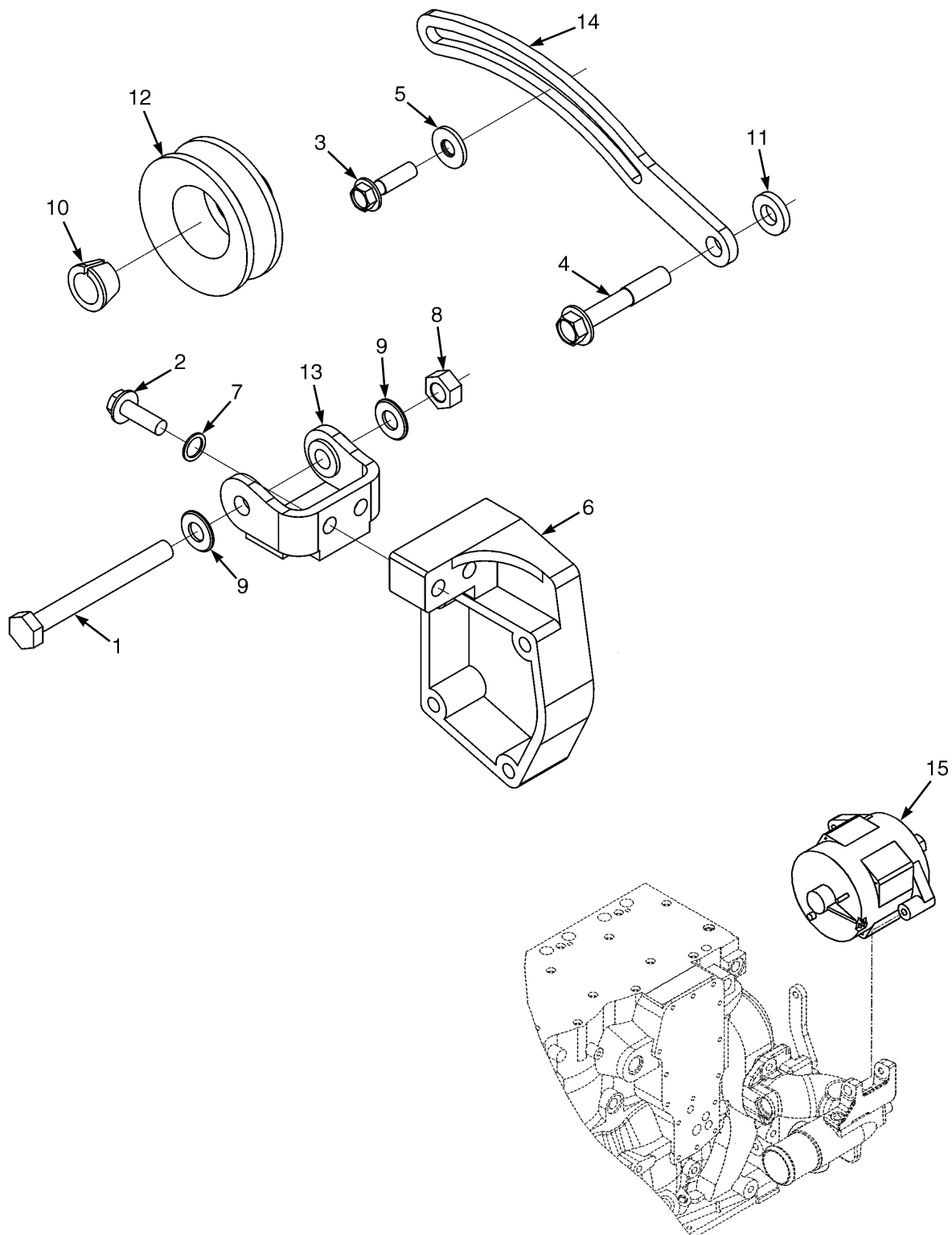
STARTER (FIGURE 4-9)
GM 4.3L (GS AND LPS)

BP080827

STARTER
GM 4.3L (GS AND LPS)

ITEM	PART NO.	DESCRIPTION	QTY
1	2109666	Dust Shield	1
2	1534417	Capscrew	2
2	148962	Capscrew (Alternate Part)	1
3	1640531	Starter	1
4	1640818	Bracket (Heat Shield)	1
5	264148	Nut	2
6	1677876	Bolt	2

ALTERNATOR AND MOUNTING (FIGURE 4-10) CUMMINS QSB 3.3L DIESEL

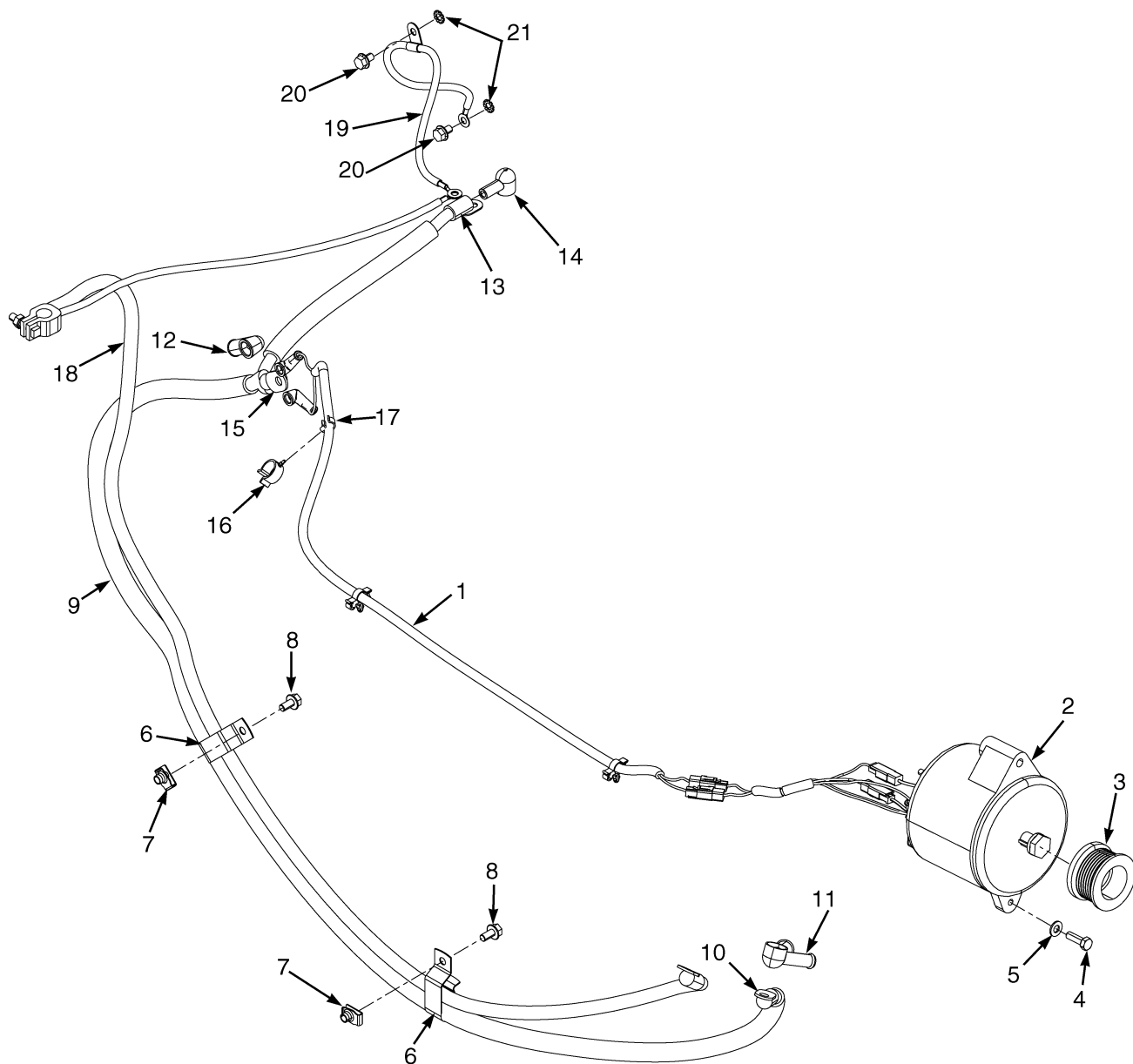


BP090401

**ALTERNATOR AND MOUNTING
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691631	Capscrew	1
2	1691854	Capscrew	2
3	1691633	Capscrew	1
4	1691634	Capscrew	1
5	1691635	Spacer	1
6	1691641	Support	1
7		Washer	2
8	1691638	Nut	1
9	1691639	Washer	2
10	1637812	Retainer	1
11	1691636	Spacer	1
12	1691640	Pulley	1
13	1691642	Bracket	1
13		Bushing	1
14	1691637	Plate (Pivot)	1
15	1637805	Alternator	1
15	4007486	Alternator (Alternate Part)	1

ENGINE ELECTRICAL SYSTEM (FIGURE 4-11) CUMMINS QSB 3.3L DIESEL — UL TYPE DS

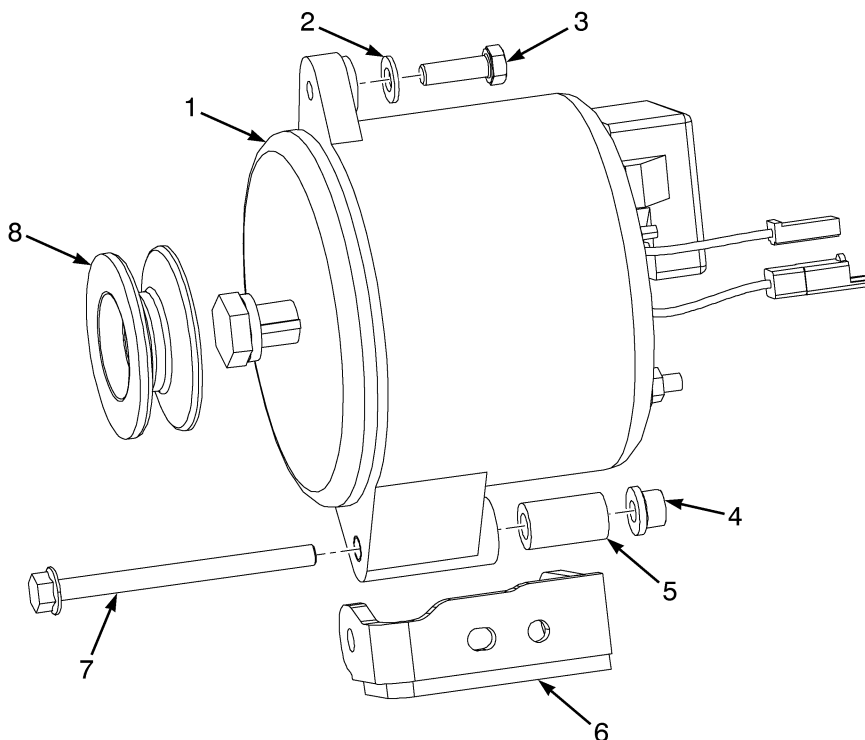


BP080601

ENGINE ELECTRICAL SYSTEM
CUMMINS QSB 3.3L DIESEL – UL TYPE DS

ITEM	PART NO.	DESCRIPTION	QTY
1	2103830	Wire Harness (Sealed Alternator) (☞Figure 4-49).....	1
2	1394001	Alternator (Sealed) (☞Figure 4-12).....	1
3	1501948	Pulley	1
4	18497	Capscrew	1
5	18515	Washer	1
6	1544157	Clip	2
7	1480237	Nut	2
8	1527879	Capscrew	2
9	2099801	Battery Cable (Positive)	1
9	1357268	Battery Cable (Red)	AR
9	1357266	Battery Cable (Red)	AR
9	2111099	Battery Cable (Alternate Part)	1
10	16079	Terminal	1
11	1661688	Boot	1
12	204223	Boot	1
13	148798	Terminal	1
14	1566146	Boot	1
15	148795	Terminal	1
16	1502066	Clamp	1
17	1561871	Clamp (Swivel)	1
18	2099799	Battery Cable (Negative)	1
18	1616122	Terminal	1
19	2093220	Battery Cable	1
19	806426	E-Ring	2
19	1564044	E-Ring	1
20	~~1529366~~		
	4011940	Capscrew	2
21	296380	Washer	2

SEALED ALTERNATOR AND MOUNTING (FIGURE 4-12) CUMMINS QSB 3.3L DIESEL



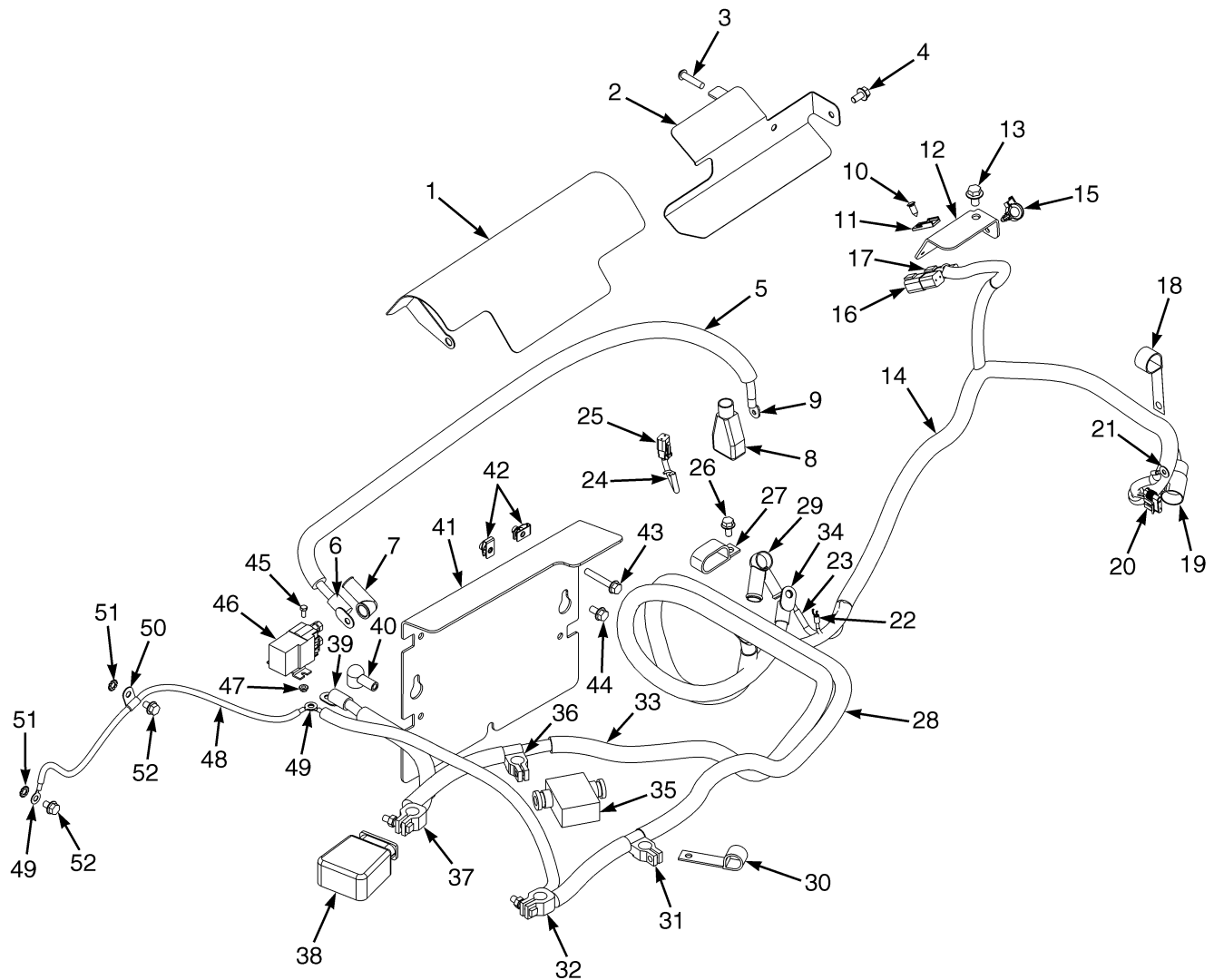
BP080748

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1394001	Alternator (Sealed)	1
2	18515	Washer	1
3	18497	Capscrew	1
4	1544153	Locknut	1
5	1678178	Spacer	1
6	1678069	Bracket Wldmt	1
7	1617601	Bolt	1
8	1537422	Spacer	1
8	1677952	Pulley (Alternator)	1

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

ENGINE ELECTRICAL SYSTEM (FIGURE 4-13) CUMMINS QSB 3.3L DIESEL



BP080865

**ENGINE ELECTRICAL SYSTEM
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1703318	Shield (Starter)	1
1	a 1691544	Foam (Seal)	1
2	1691441	Bracket Wldmt (Fuel Pump Shield)	1
3	296169	Capscrew	1
4	1527879	Capscrew	1
5	2099800	Battery Cable (Positive)	1
5	1357265	Battery Cable (Red)	AR
6	148800	Terminal (Battery)	1
7	204223	Boot	1
8	321158	Boot	1
9	203689	E-Ring	1
10	1582464	Fastener	2
11	1500912	Clip	2
12	1678123	Bracket (Wire Harness)	1
13	1528778	Capscrew	1
14	2110986	Wire Harness (Alternator) (☞ Figure 4-10).....	1
15	1402815	Clip	1
16	1480187	Connector	1
17	1493465	Connector	1
18	1364263	Clamp	1
19	1544731	Receptacle	1
20	1501919	Connector	1
21	806426	E-Ring	1
22	148638	E Ftg Spade Term #10	1
23	806427	E-Ring	2
24	2103224	Wire Harness (2 Pin Extension)	1
25	1490242	Connector	1
26	1527879	Capscrew	2
27	176454	Clamp	2
28	2099799	Battery Cable (Negative)	1
28	16078	Battery Cable	AR
29	1629204	Boot	1
30	1474893	Clamp	2
31	148783	Terminal	1
32	148789	Terminal	1
32	1616122	Terminal (Alternate Part)	1
33	2111098	Battery Cable (Positive) (Positive)	1
33	1357268	Battery Cable (Red)	AR
34	16079	Terminal	1
35	1595774	Boot	1
36	148786	Terminal	1
36	1590368	Terminal (Alternate Part)	1
37	148792	Terminal	1
38	1536304	Boot	1
39	148798	Terminal	1
40	1566146	Boot	1
41	1669570	Bracket (Engine Control Module)	1
42	1480237	Nut (Foldover)	7
43	1510115	Capscrew	4
44	1527879	Capscrew	3

**ENGINE ELECTRICAL SYSTEM
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
45	2046866	Capscrew	2
46	1501896	Contactor	1
47	1565407	Nut	2
48	2093220	Battery Cable (Negative)	1
48	1357533	Wire-Bulk	AR
49	806426	E-Ring	2
50	1564044	E-Ring	1
51	296380	Washer	2
52	1527879	Capscrew	2

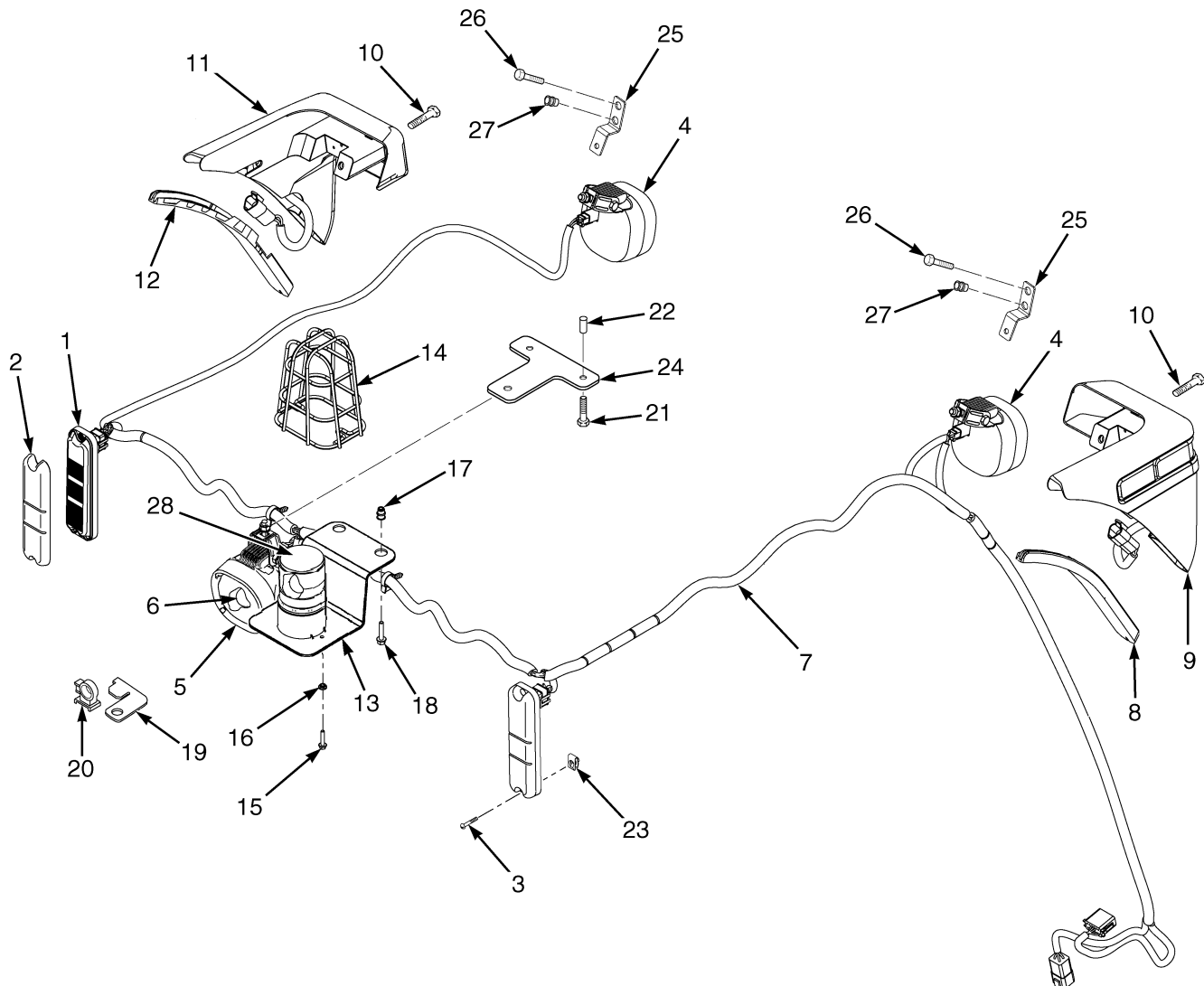
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

LIGHTS (FIGURE 4-14) BRAKE, TAIL, BACKUP, SIDE, TURN SIGNALS, WORK, STROBE — WITH CAB



BP080386

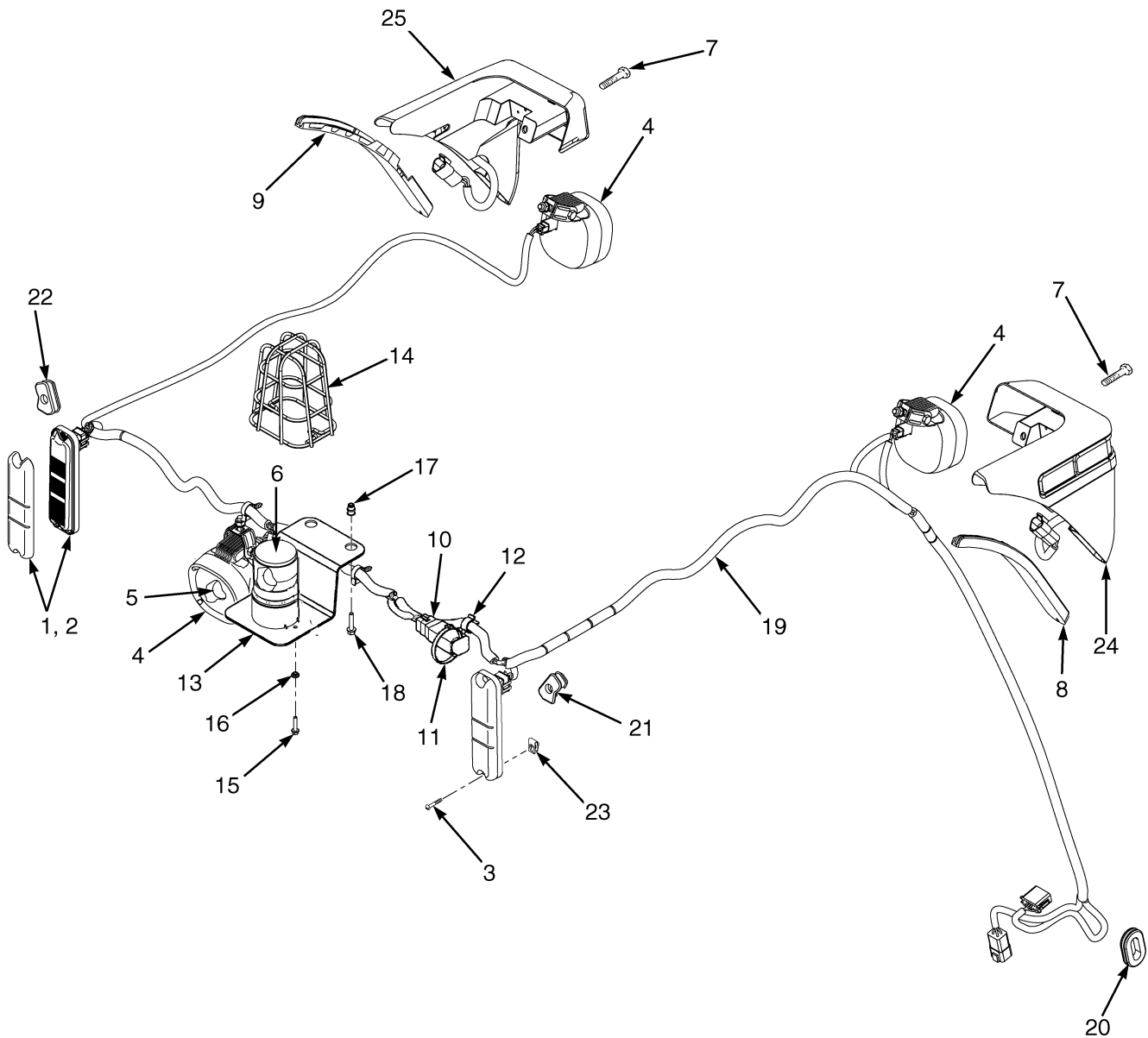
LIGHTS

BRAKE, TAIL, BACKUP, SIDE, TURN SIGNALS, WORK, STROBE – WITH CAB

ITEM	PART NO.	DESCRIPTION	QTY
1	2056824	Brake/Backup Light (Stop, Turn, Tail, And Back-Up)	2
1	2107957	Tail Light Base (RH) (Not Shown)	1
1	2107958	Tail Light Base (LH) (Not Shown)	1
2	2056826	Reflector (Tail)	2
3	1565125	Screw	4
4	2098084	Work Light (RH Front) (Halogen)	1
4	2107383	Head/Work Light (RH Front) (LED)	1
4	2098085	Work Light (LH Front) (Halogen)	1
4	2107384	Head/Work Light (LH Front) (LED)	1
5	2098083	Work Light (Rear) (Halogen)	1
5	2107382	Head/Work Light (Rear) (LED)	1
5	1664626	Bracket (Without Cab)	1
5	1698541	Bracket (Use with LED Lights)	1
6	2098082	Bulb (Halogen)	1
7	1647440	Wire Harness (Cab)	1
8	1608591	Trim (RH)	1
9	2070561	Turn Signal Light (RH Front)	1
10	1608654	Capscrew	4
11	2070562	Turn Signal Light (LH Front)	1
12	1608592	Trim (LH)	1
13	1565076	Bracket Wldmt	1
14	1302024	Guard	1
15	1586759	Capscrew	2
16	1586428	Nut	2
17	1531558	Insert	2
18	1586495	Capscrew	2
19	1698543	Bracket	1
20	1532775	Clip	1
21	1586495	Capscrew	2
22	1531558	Insert	2
23	1537551	Nut	4
24	1558771	Bracket	1
24	1698541	Bracket (Alternate Part)	1
25	1664656	Bracket (With Cab)	2
26	1583611	Capscrew	4
27	1531557	Insert	4
28	1654013	Strobe Light Assembly	1

LIGHTS (FIGURE 4-15)

BRAKE, TAIL, BACKUP, SIDE, TURN SIGNALS, WORK, STROBE — WITH OVERHEAD GUARD

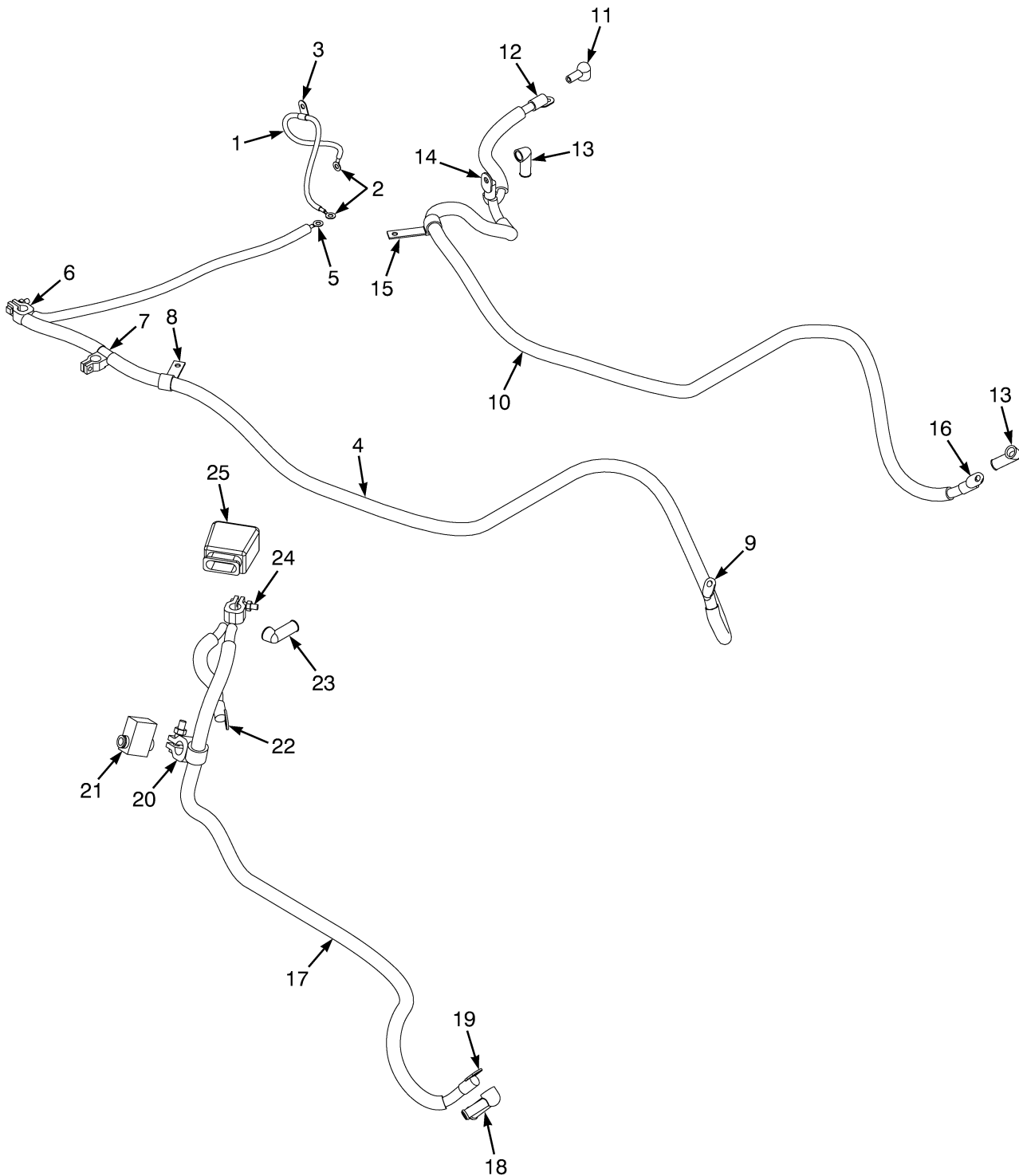


BP080385

LIGHTS**BRAKE, TAIL, BACKUP, SIDE, TURN SIGNALS, WORK, STROBE – WITH OVERHEAD GUARD**

ITEM	PART NO.	DESCRIPTION	QTY
1	2056824	Brake/Backup Light (Stop, Turn, Tail, And Back-Up)	2
1	2107957	Tail Light Base (RH)	1
1	2107958	Tail Light Base (LH)	1
2	2056826	Reflector (Tail)	2
3	1565125	Screw	4
4	2098083	Work Light (Rear) (Halogen)	1
4	2107382	Head/Work Light (Rear) (LED)	1
4	2098086	Work Light (RH Front) (Halogen)	1
4	2107383	Head/Work Light (RH Front) (LED)	1
4	2098087	Work Light (LH Front) (Halogen)	1
4	2107384	Head/Work Light (LH Front) (LED)	1
5	2098082	Bulb (Halogen)	1
6	1654013	Strobe Light Assembly	1
7	1608654	Capscrew	4
8	1608589	Trim (RH)	1
9	1608590	Trim (LH)	1
10	2095895	Wire Harness	1
10	1514597	Connector	1
10	1514598	Connector	1
10	1484709	Terminal (Pin)	4
10	1634047	Resistor	3
11	1644398	Clamp	1
12	1606544	Clamp	1
13	1565076	Bracket Wldmt	1
14	1302024	Guard	1
15	1586759	Capscrew	2
16	1586428	Nut	2
17	1531001	Insert	2
18	1586495	Capscrew	2
19	2101862	Wire Harness (Lights) (☞ Figure 4-54).....	1
20	1539584	Grommet (Vehicle System Manager)	1
21	1560447	Grommet (RH Tail Light)	1
22	1560448	Grommet (LH Tail Light)	1
23	1537551	Nut	4
24	2070561	Turn Signal Light (RH Front)	1
24	2070563	Cap (Black Plastic)	2
24	1493466	Connector	1
24	1330415	Connector	1
24	1330437	Terminal (Pin)	3
25	2070562	Turn Signal Light (LH Front)	1
25	2070563	Cap (Black Plastic)	2
25	1493466	Connector	1
25	1330415	Connector	1
25	1330437	Terminal (Pin)	3

BATTERY CABLES (FIGURE 4-16) CUMMINS QSB 3.3L DIESEL

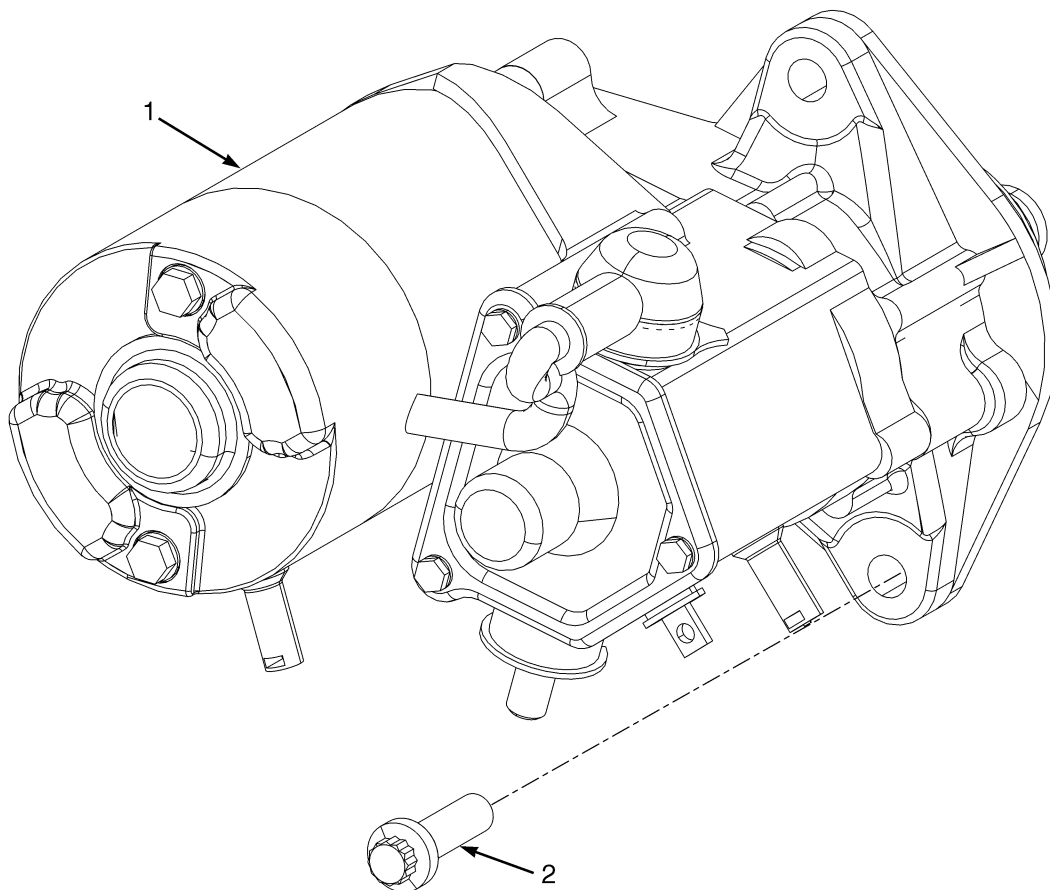


BP080856

BATTERY CABLES
CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	2093220	Battery Cable (Negative)	1
2	806426	E-Ring	2
3	1564044	E-Ring	1
4	2099799	Battery Cable (Negative)	1
5	806426	E-Ring	1
6	148789	Terminal	1
6	1616122	Terminal (Alternate Part)	1
7	148783	Terminal	1
8	1474893	Clamp	1
9		Terminal	1
10	2099801	Battery Cable (Positive) (UL Type DS)	1
10	2111099	Battery Cable (Positive) (UL Type DS) (Alternate Part)	1
11	1566146	Boot	1
12	148798	Terminal	1
13	204223	Boot	2
14	148795	Terminal	1
15	1474893	Clamp	1
16	16079	Terminal	1
17	2111098	Battery Cable (Positive) (Positive) (Standard Diesel)	1
18	204223	Boot	1
19	16079	Terminal	1
20	148786	Terminal	1
20	1590368	Terminal (Alternate Part)	1
21	1595774	Boot	1
22	148798	Terminal	1
23	1566146	Boot	1
24	148792	Terminal	1
25	1536304	Boot	1

STARTER MOTOR (FIGURE 4-17) CUMMINS QSB 3.3L DIESEL



BP090305

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1692007	Motor (Starter)	1
2	1692006	Capscrew	3
2	1707217	Capscrew (Alternate Part)	3
	a 1703318	Shield	1

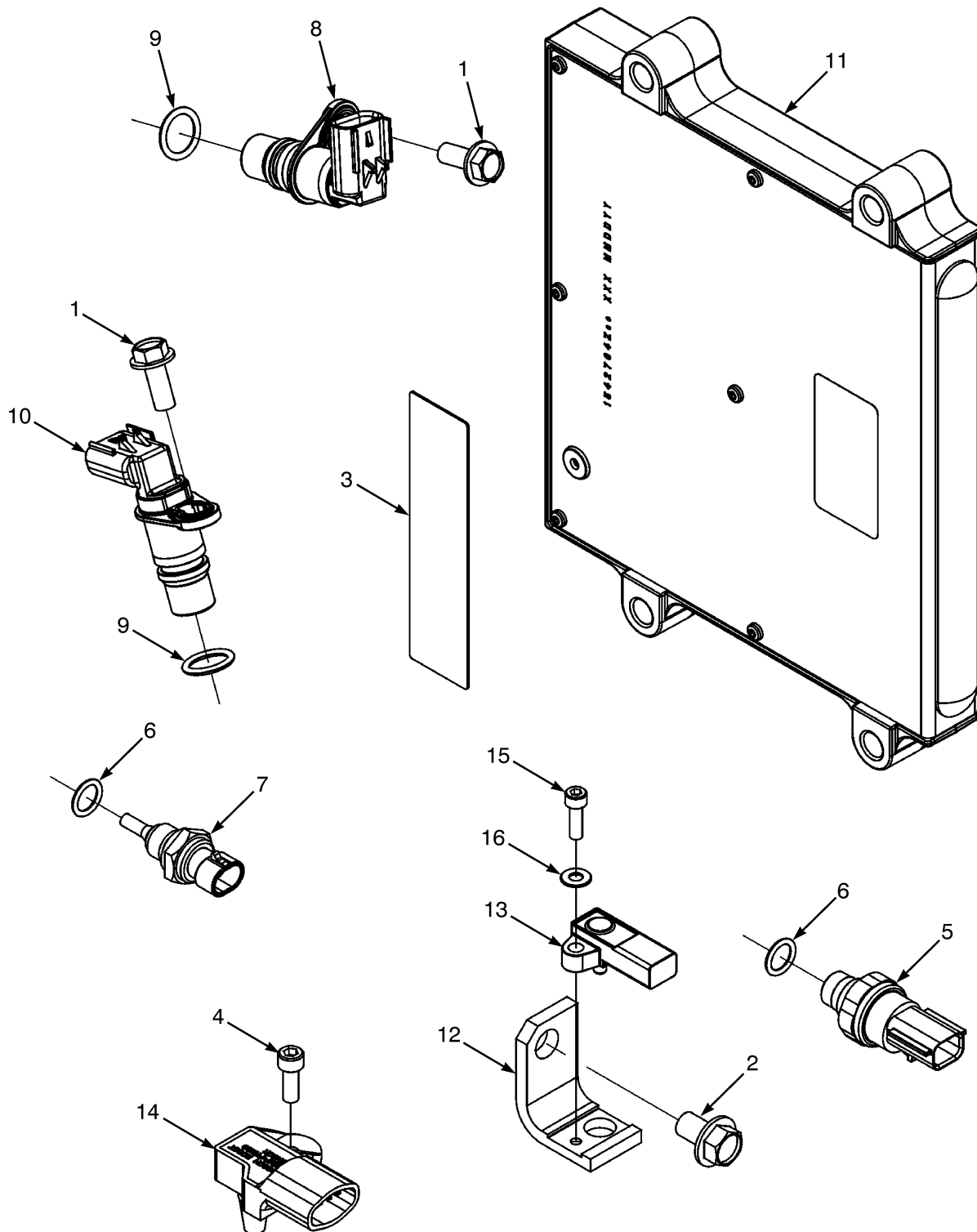
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

ELECTRONIC CONTROL MODULE AND SENSORS (FIGURE 4-18) CUMMINS QSB 3.3L DIESEL



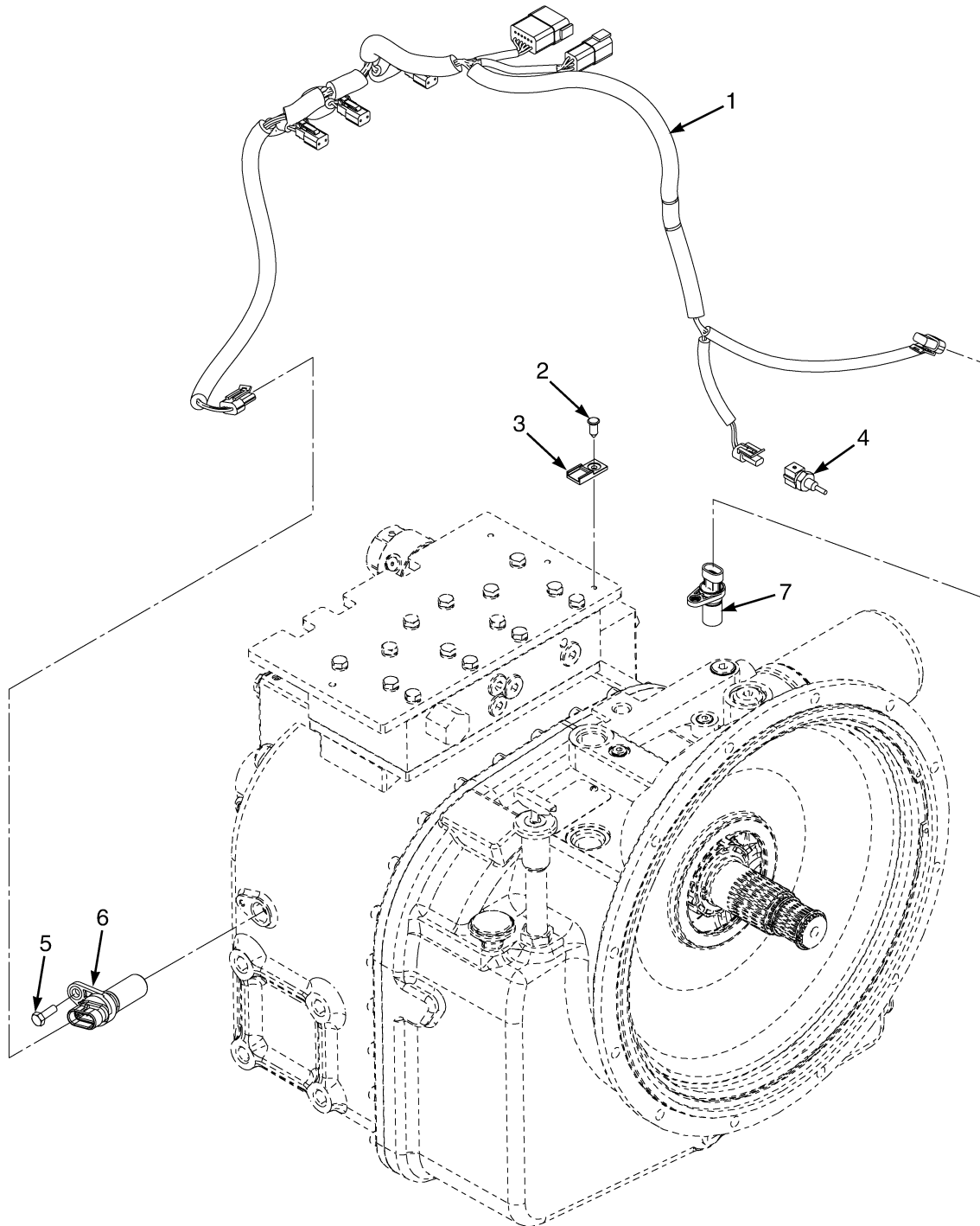
BP090407

**ELECTRONIC CONTROL MODULE AND SENSORS
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103244	Engine Assy-Diesel	1
	2108566	Engine Assy-Diesel (99 Horsepower)	1
1	1691869	Capscrew	2
2	1691870	Capscrew	1
3	1517120	Data Plate	1
4	1691871	Capscrew	1
5	1543439	Oil Pressure Sensor Assembly	1
6	1543435	O-Ring	2
7	1565040	Temperature Sensor	1
8	1644129	Throttle Position Sensor (Cam Position)	1
9	1644128	O-Ring	2
10	1644131	Throttle Position Sensor (Crank Position)	1
11	1691861	Electronic Control Module	1
12	1691868	Support	1
13	1691877	Sensor (Ambient Air Pressure)	1
14	1691878	Sensor (Intake Manifold Temperature)	1
15	1691879	Capscrew	1
16	1691880	Washer	1
	a 2106332	Label (ECM Code) (Standard Transmission) (☞ Figure 1-30).....	1

FOOTNOTES:**a** Not Illustrated

TRANSMISSION ELECTRICAL SYSTEM (FIGURE 4-19) TWO SPEED TRANSMISSION

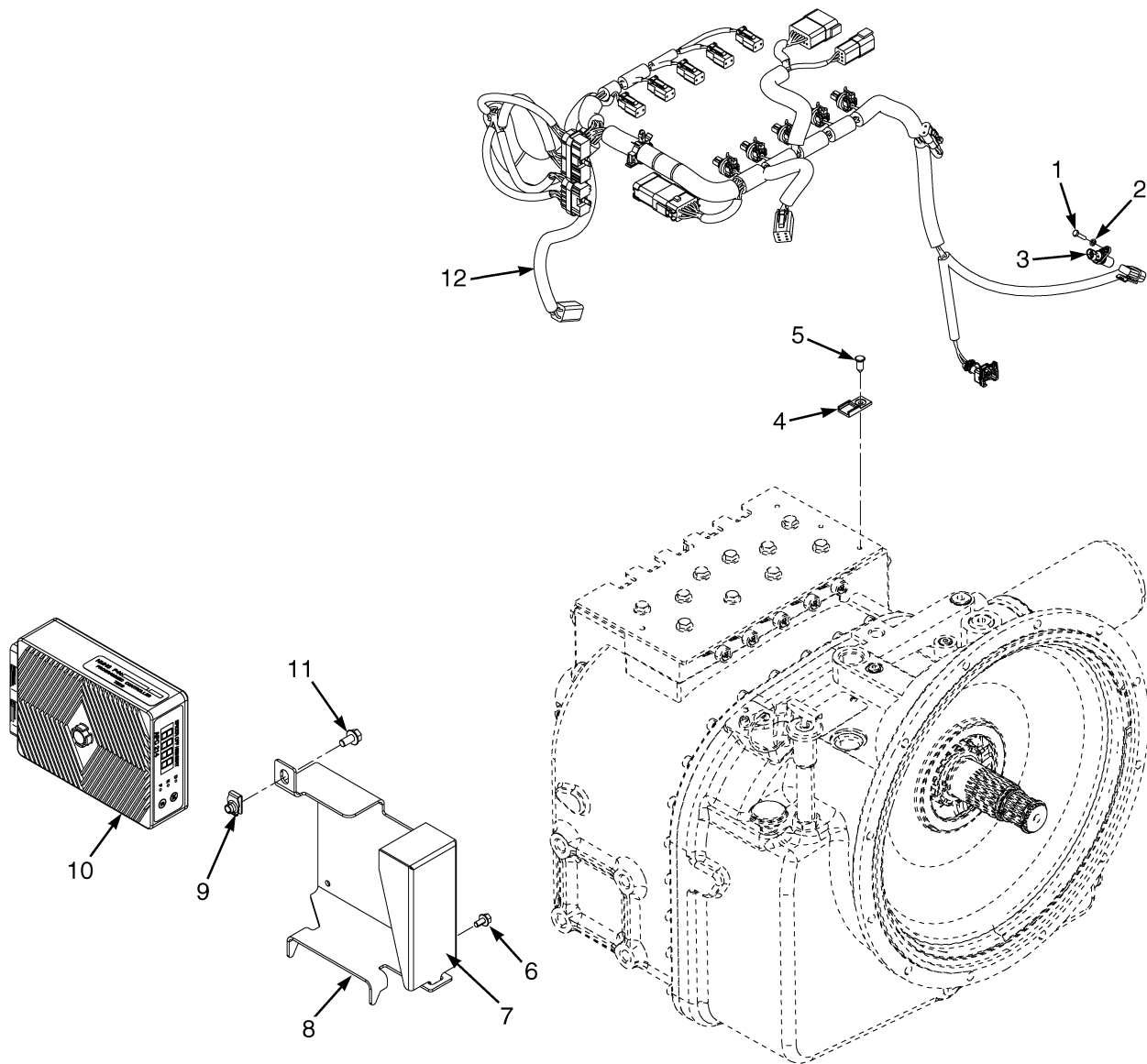


BP080573

**TRANSMISSION ELECTRICAL SYSTEM
TWO SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
1	2106249	Wire Harness (Transmission) (☞ Figure 4-51).....	1
2	1582464	Fastener	2
3	1500912	Clip	2
4	1515654	Temperature Sensor	1
5	1527876	Capscrew	1
6	1541231	Sensor (Input Speed, TISS)	1
7	1541232	Sensor (Output Speed, TOSS)	1

TRANSMISSION ELECTRICAL SYSTEM (FIGURE 4-20) THREE SPEED TRANSMISSION



BP080546

**TRANSMISSION ELECTRICAL SYSTEM
THREE SPEED TRANSMISSION**

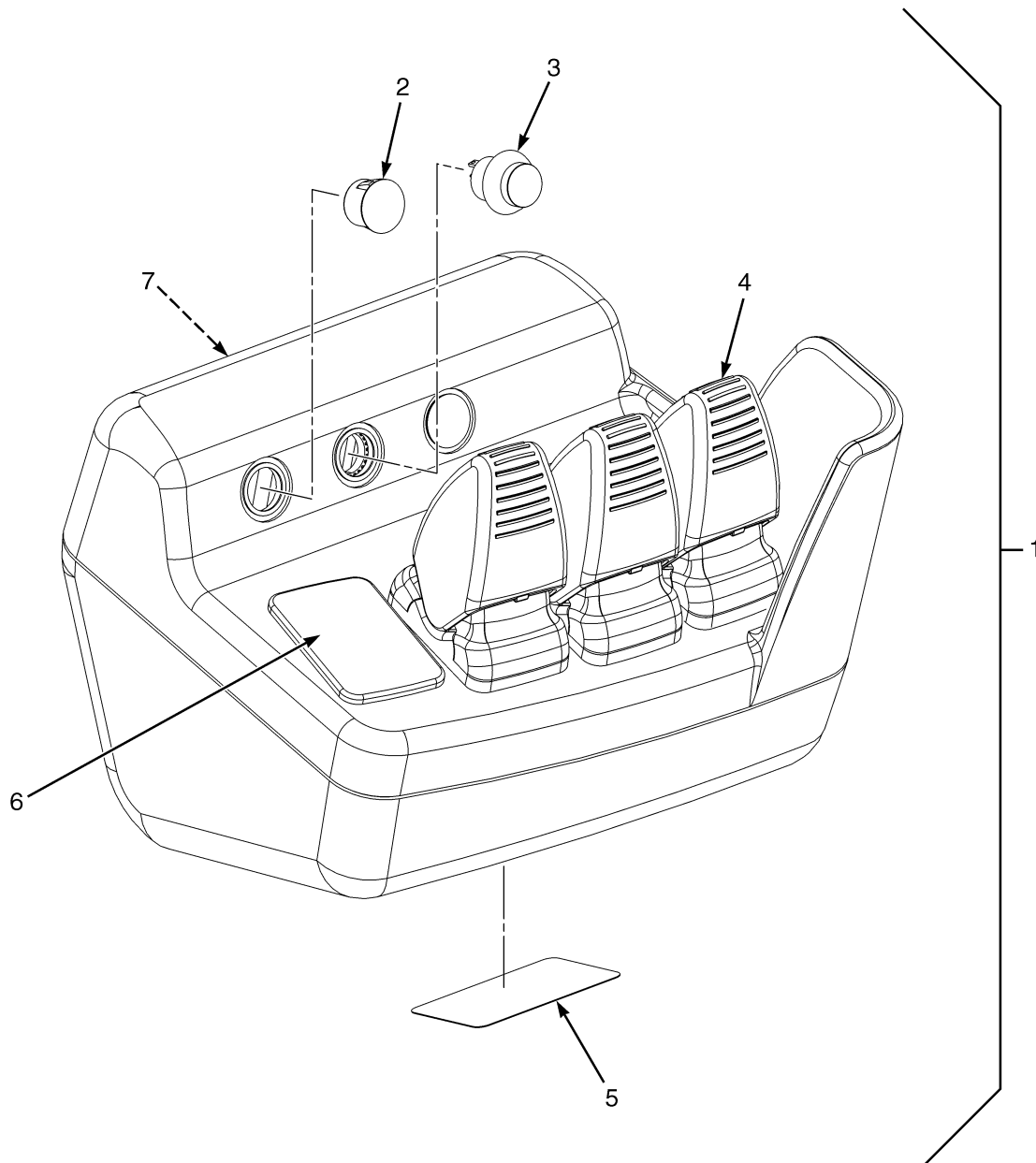
ITEM	PART NO.	DESCRIPTION	QTY
1	1527876	Capscrew	1
2	292680	Washer	1
3	1541231	Sensor (Input Speed, TISS)	1
4	1500912	Clip	4
5	1582464	Fastener	4
6	1534417	Capscrew	4
7	1603367	Cover	1
8	1662302	Bracket	1
9	1480237	Nut	1
10	ad 2108841	Controller	1
10	ae 4604103	Controller	1
10	bd 2108843	Controller	1
10	be 4604105	Controller	1
10	cd 2089017	Controller	1
10	ce 4604095	Controller	1
10	cd 2091460	Controller (Extended Function)	1
10	ce 4604099	Controller (Extended Function)	1
11	1527879	Capscrew	1
12	2106248	Wire Harness (Transmission, Three Speed) (☞ Figure 4-50).....	1

FOOTNOTES:

- a** Cummins QSB 3.3L 80 Horsepower
b Cummins QSB 3.3L 99 Horsepower
c GM 4.3L Gasoline and LPG

- d** → S/N J006V02546H
e S/N J006V02547H →

ELECTRONIC CONTROL LEVERS (FIGURE 4-21) MINI-LEVER MODULES (THREE FUNCTION) (→ PENDING PER ECN 10623703)



BP150259

ELECTRONIC CONTROL LEVERS

MINI-LEVER MODULES (THREE FUNCTION) (→ PENDING PER ECN 10623703)

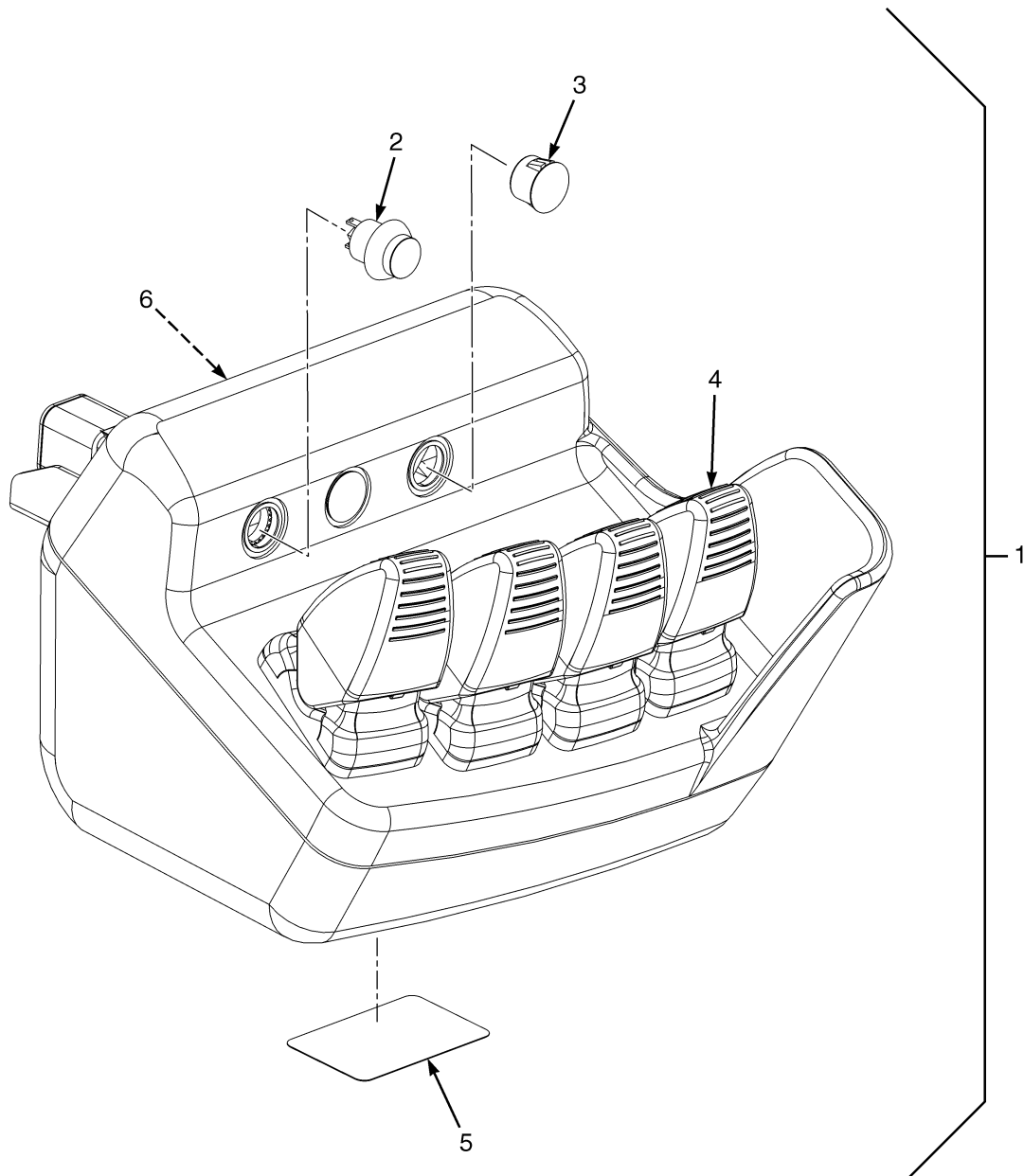
ITEM	PART NO.	DESCRIPTION	QTY
1	2105372	Mini-Lever (8544613)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	3
	b 1598224	Plug	1
	c 1598223	Kit-Plug (Interlock Switch Plug)	3
1	2105376	Mini-Lever (8544617) (With Clamping)	1
	a 1598223	Kit-Plug (Interlock Switch Plug)	1
	d 1598221	Kit-Switch (Interlock Switch)	1
	b 1598224	Plug	1
	c 1689455	Kit-Mini-Lever (Non-Clamping)	2
	1689460	Kit-Mini-Lever (Clamping)	1
1	2105378	Mini-Lever (8544619) (With Return To Set Tilt)	1
	a 1598223	Kit-Plug (Interlock Switch Plug)	2
	d 1598221	Kit-Switch (Interlock Switch)	1
	b 1598224	Plug	1
	c 1689455	Kit-Mini-Lever (Non-Clamping)	2
	1689460	Kit-Mini-Lever (Clamping)	1
1	2105380	Mini-Lever (8544621) (With Clamping and Return to set Tilt)	1
	d 1598221	Kit-Switch (Interlock Switch)	2
	b 1598224	Plug	2
	c 1598223	Kit-Plug (Interlock Switch Plug)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	1
	1689460	Kit-Mini-Lever (Clamping)	2
2		Plug (Momentary Switch)	AR
3	1591181	Switch-Momentary	AR
4		Mini-Lever	AR
4	1658063	Handle (Mini-Lever)	1
5		Label (Shows Production Part Number)	1
6	1598224	Plug (Mini-Lever)	1
7		Control Labels (☞Figure 1-32, ☞Figure 1-33).....	1

FOOTNOTES:

- a** Kit Includes: 1 Interlock Rocker (must be used in combination with a Momentary Interlock Switch), 1 Gasket, 4 Screws (parts are NSS)
- b** Kit Includes: 1 Mini-Lever Plug, 1 Gasket (parts are NSS)

- c** Kit Includes: 1 Momentary Interlock Switch Plug, 1 Gasket (parts are NSS)
- d** Kit Includes: 1 Momentary Switch, 1 Lockwasher, 1 Gasket, 1 Nut (parts are NSS)

ELECTRONIC CONTROL LEVERS (FIGURE 4-22) MINI-LEVER MODULE (FOUR FUNCTION) (→ PENDING PER ECN 10623703)



BP150258

ELECTRONIC CONTROL LEVERS

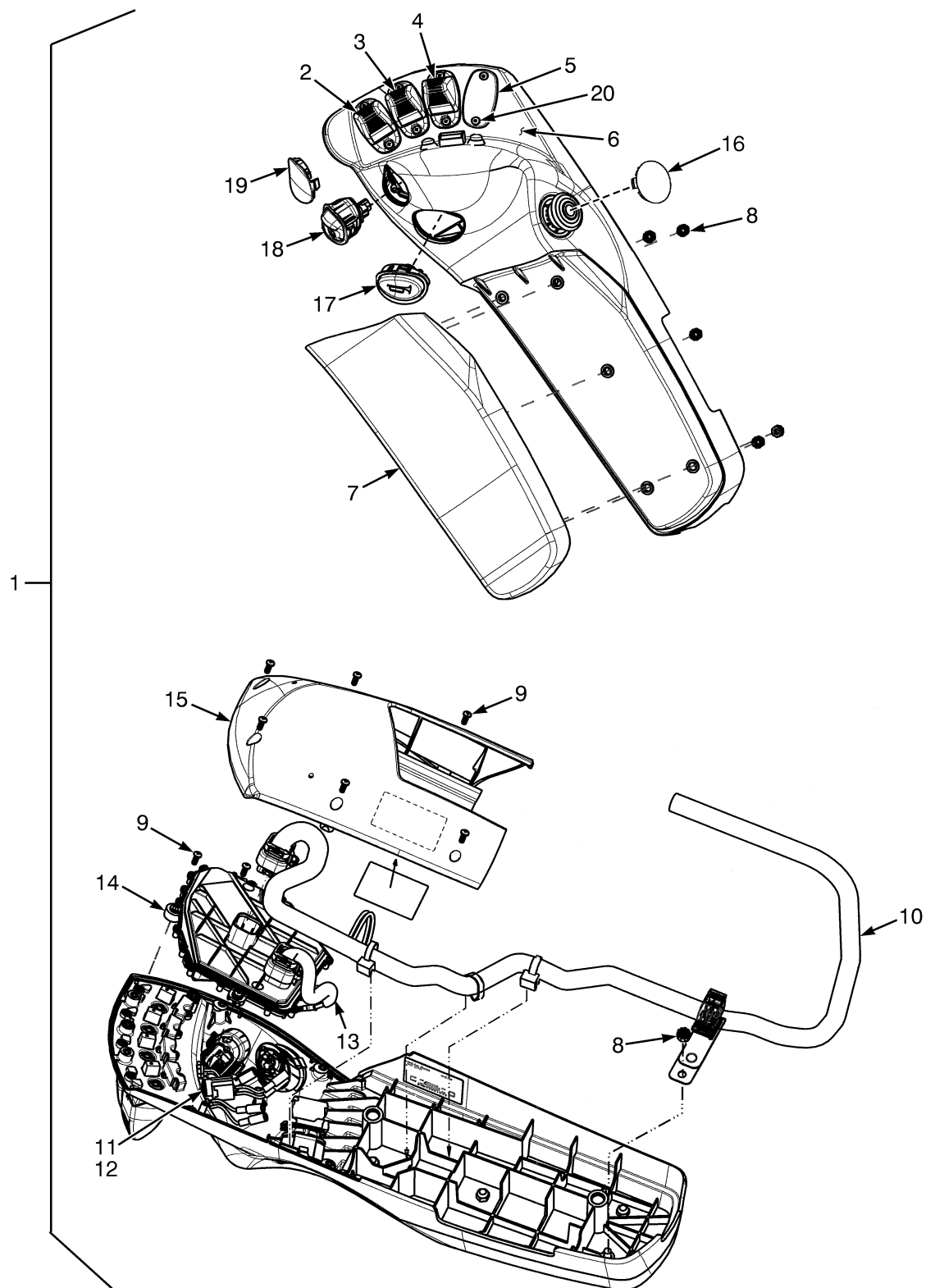
MINI-LEVER MODULE (FOUR FUNCTION) (→ PENDING PER ECN 10623703)

ITEM	PART NO.	DESCRIPTION	QTY
1	2105373	Mini-Lever (8544614)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	4
	b 1598223	Kit-Plug (Interlock Switch Plug)	3
1	2105377	Mini-Lever (8544618) (With Clamping)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	3
	1689460	Kit-Mini-Lever (Clamping)	1
	c 1598221	Kit-Switch (Interlock Switch)	1
	b 1598223	Kit-Plug (Interlock Switch Plug)	1
1	2105379	Mini-Lever (8544620) (With Return to Set Tilt)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	3
	a 1689460	Kit-Mini-Lever (Clamping)	1
	c 1598221	Kit-Switch (Interlock Switch)	1
	b 1598223	Kit-Plug (Interlock Switch Plug)	2
1	2105381	Mini-Lever (8544622) (Clamping and Return to Set Tilt)	1
	1689455	Kit-Mini-Lever (Non-Clamping)	2
	c 1598221	Kit-Switch (Interlock Switch)	2
	b 1598223	Kit-Plug (Interlock Switch Plug)	1
1	1689460	Kit-Mini-Lever (Clamping)	2
2	1591181	Switch-Momentary	AR
3		Plug (Momentary Switch)	AR
4		Mini-Lever	AR
4	1658063	Handle (Mini-Lever)	1
5		Label	1
6		Control Labels (☞Figure 1-32, ☞Figure 1-33).....	1

FOOTNOTES:

- a** Kit Includes: 1 Interlock Mini-Lever (must be used in combination with a Momentary Interlock Switch), 1 Gasket, 4 Screws (parts are NSS)
- b** Kit Includes: 1 Momentary Switch Hole Plug, 1 Gasket (parts are NSS)
- c** Kit Includes: 1 Momentary Switch, 1 Lockwasher, 1 Gasket, 1 Nut (parts are NSS)

MINI-LEVER CONTROLS (FIGURE 4-23) WITH ARMREST — THREE FUNCTION (PENDING PER ECN 10623703 →)



BP080959

MINI-LEVER CONTROLS

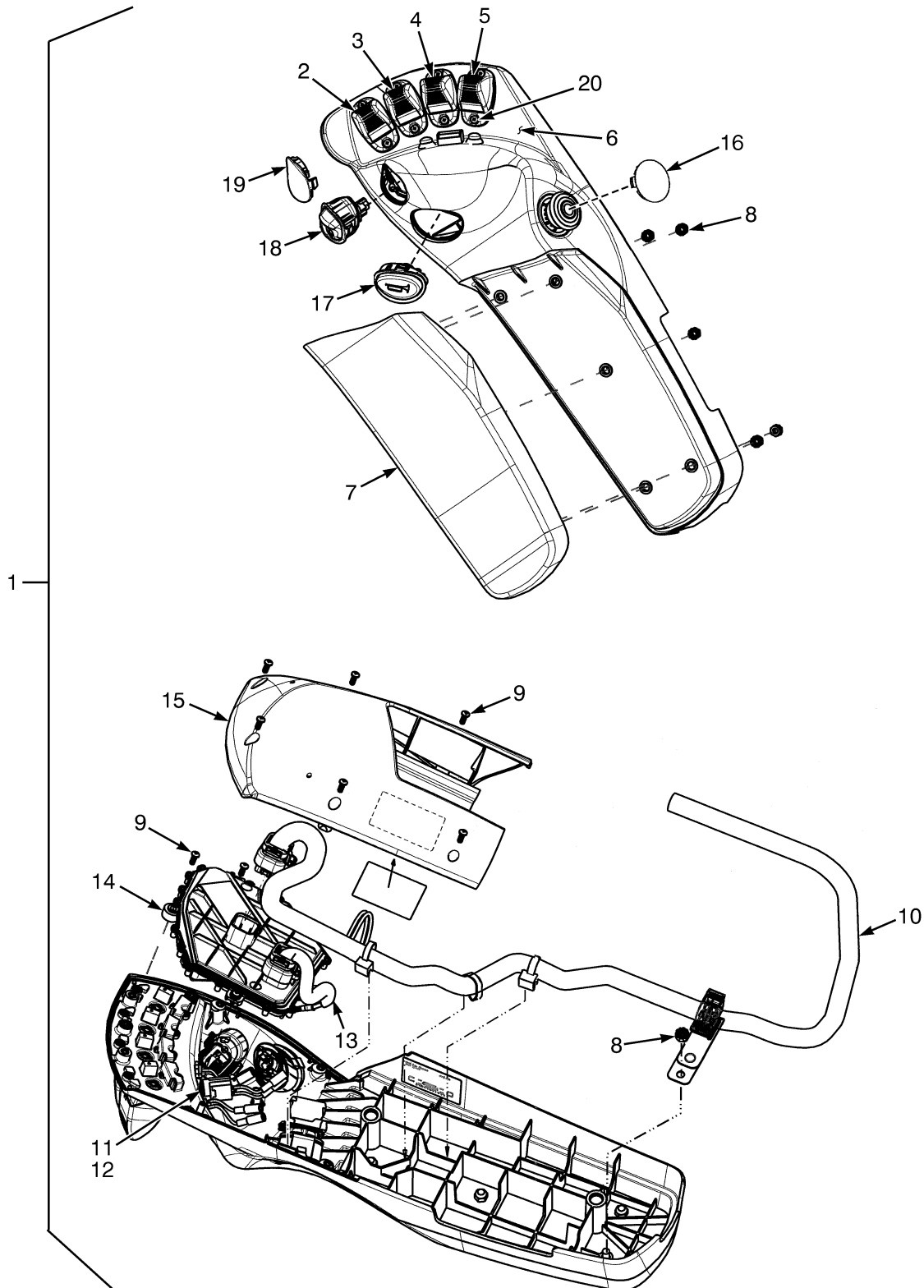
WITH ARMREST – THREE FUNCTION (PENDING PER ECN 10623703 →)

KEY:**A:** Without Directional Control Switch**B:** With Directional Control Switch

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4601093	Mini-Lever Assembly	1	..
1	c 4601265	Mini-Lever Assembly	1	..
1	a 4601097	Mini-Lever Assembly	1	..
1	b 4601099	Mini-Lever Assembly	1	..
1	4601101	Mini-Lever Assembly	..	1
1	c 4601103	Mini-Lever Assembly	..	1
1	a 4601105	Mini-Lever Assembly	..	1
1	b 4601107	Mini-Lever Assembly	..	1
2		Lever Position 1	1	1
2	2110791	Lever (Single Function)	1	1
3		Lever Position 2	1	1
3	2110791	Lever (Single Function)	1	1
3	a 2110793	Lever (With Override)	1	1
4		Lever Position 3	1	1
4	2110791	Lever (Single Function)	1	1
4	c 2110792	Lever (Clamping)	1	1
5	2108249	Plug	1	1
6	2111799	Armrest (Without Holes)	1	1
6	ac 4603439	Armrest (With Holes)	1	1
7	2111769	Cushion (Armrest)	1	1
8	1709587	Nut	5	5
9	1698449	Capscrew	6	6
10	4605336	Wire Harness	1	1
11	c 1591181	Switch-Momentary	1	1
11	b 1591181	Switch-Momentary	2	2
12	c 1598225	Hole Plug	2	2
12	b 1598225	Hole Plug	1	1
13	1704529	Wire Harness (Push Buttons)	1	1
14	2111802			
	4605337	Printed Circuit Board	1	1
15	2111800	Cover (Bottom Armrest)	1	1
16	4601120	Plug	1	1
17	2111770	Horn Button	1	1
18	2110943	Switch (Directional Control)	..	1
19	2110942	Plug (Directional Control Switch)	1	..
20	1698449	Capscrew	8	8

FOOTNOTES:**a** Return to Set Tilt**c** With Clamping**b** Three Function Clamp with Return to Set Tilt

MINI-LEVER CONTROLS (FIGURE 4-24) WITH ARMREST — FOUR FUNCTION (PENDING PER ECN 10623703 →)



BP080960

MINI-LEVER CONTROLS

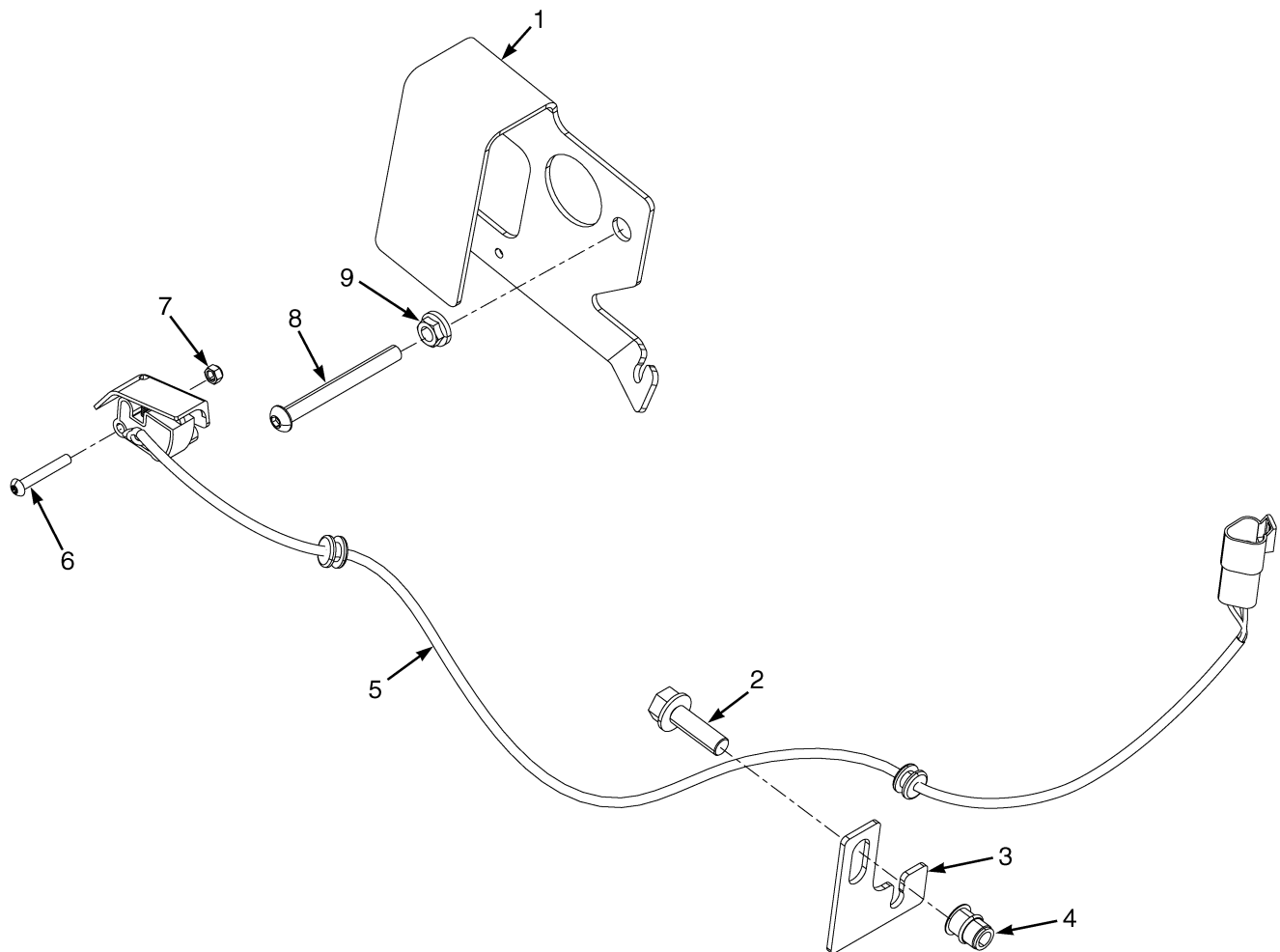
WITH ARMREST – FOUR FUNCTION (PENDING PER ECN 10623703 →)

KEY:**A:** Without Directional Control Switch**B:** With Directional Control Switch

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4601094	Mini-Lever Assembly	1	..
1	a 4601096	Mini-Lever Assembly	1	..
1	c 4601098	Mini-Lever Assembly	1	..
1	b 4601100	Mini-Lever Assembly	1	..
1	4601102	Mini-Lever Assembly	..	1
1	a 4601104	Mini-Lever Assembly	..	1
1	c 4601106	Mini-Lever Assembly	..	1
1	b 4601108	Mini-Lever Assembly	..	1
2		Lever Position 1	1	1
2	2110791	Lever (Single Function)	1	1
3		Lever Position 2	1	1
3	2110791	Lever (Single Function)	1	1
3	b 2110793	Lever (With Override)	1	1
4		Lever Position 3	1	1
4	2110791	Lever (Single Function)	1	1
5		Lever Position 4	1	1
5	2110791	Lever (Single Function)	1	1
5	ab 2110792	Lever (Clamping)	1	1
6	2111799	Armrest (Without Holes)	1	1
6	abc 4603439	Armrest (With Holes)	1	1
7	2111769	Cushion (Armrest)	1	1
8	1709587	Nut	5	5
9	1698449	Capscrew	6	6
10	4605336	Wire Harness	1	1
11	a 1591181	Switch-Momentary	1	1
11	b 1591181	Switch-Momentary	2	2
12	a 1598225	Hole Plug	2	2
12	b 1598225	Hole Plug	1	1
13	1704529	Wire Harness (Push Buttons)	1	1
14	2111802			
	4605337	Printed Circuit Board	1	1
15	2111800	Cover (Bottom Armrest)	1	1
16	4601120	Plug	1	1
17	2111770	Horn Button	1	1
18	2110943	Switch (Directional Control)	..	1
19	2110942	Plug (Directional Control Switch)	1	..
20	1698449	Capscrew	8	8

FOOTNOTES:**a** With Clamping**c** With Return to Set Tilt**b** With Clamping and Return to Set Tilt

MAST ELECTRICAL (FIGURE 4-25)

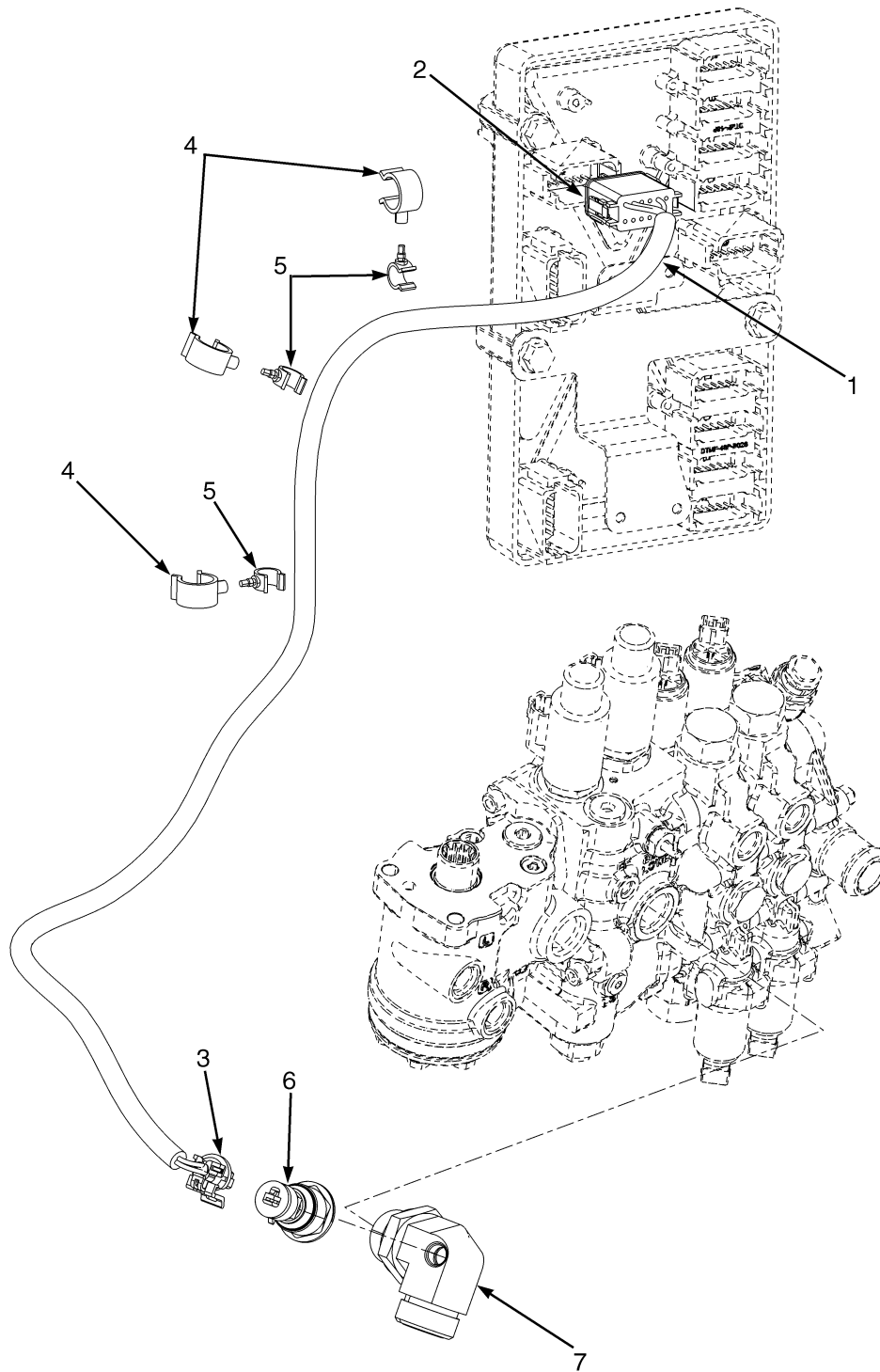


BP080602

MAST ELECTRICAL

ITEM	PART NO.	DESCRIPTION	QTY
1	1659573	Bracket	1
2	1586629	Capscrew	1
3	1649408	Bracket	1
4	1530244	Insert	1
5	1649407	Sensor (Mast Position)	1
6	1553897	Capscrew	2
7	302398	Locknut	2
8	1597451	Capscrew	1
9	1586430	Nut	1

LOAD WEIGH ELECTRICAL (FIGURE 4-26)

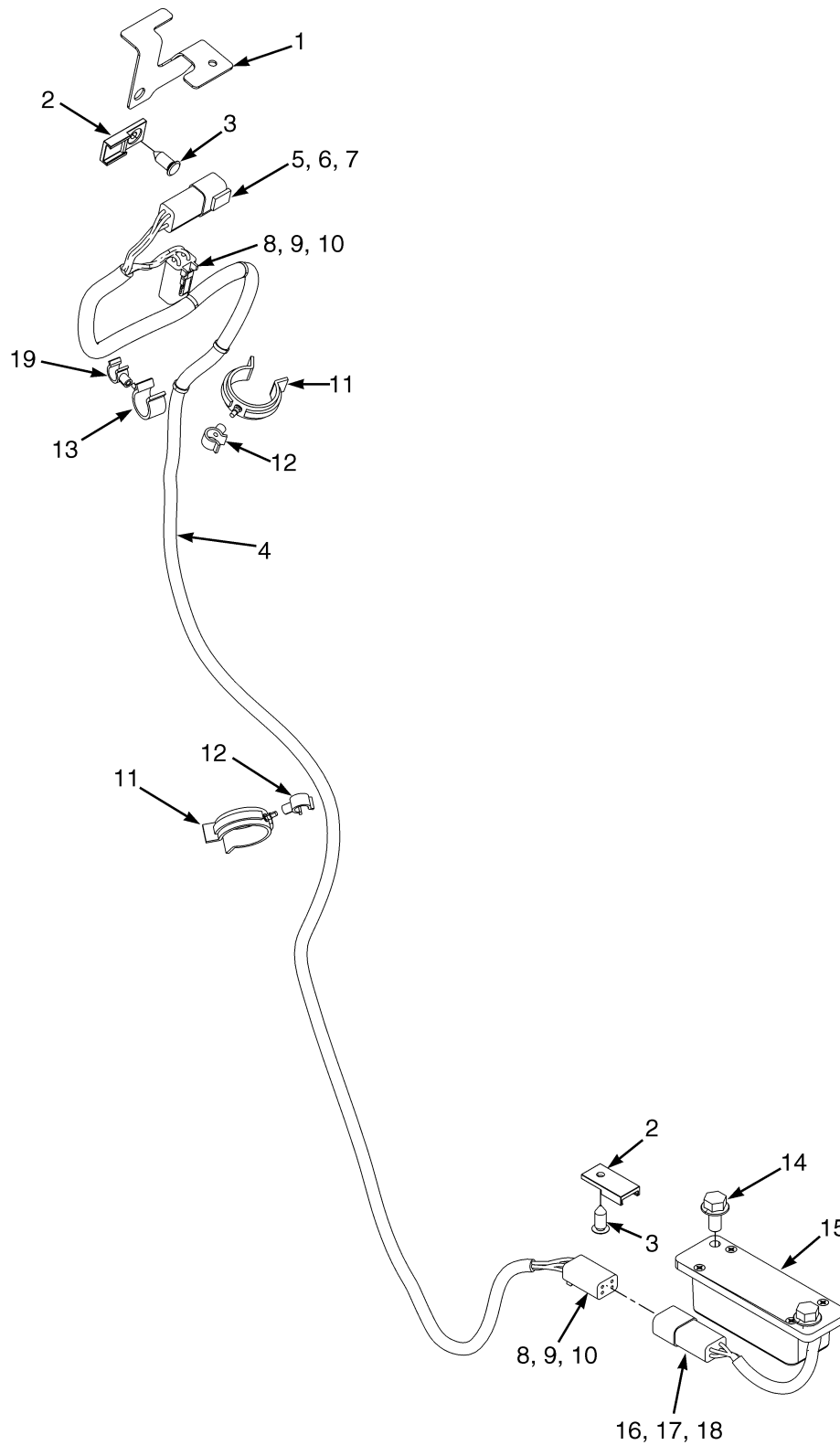


BP080413

LOAD WEIGH ELECTRICAL

ITEM	PART NO.	DESCRIPTION	QTY
1	2079326	Wire Harness (Load Weigh)	1
2	1525565	Connector	1
2	1500913	Connector	1
2	1330438	Terminal (Socket)	3
2	1484377	Plug	9
3	1603021	Connector	1
3	1603236	Connector (Secondary Lock)	1
3	1548517	Terminal (Socket)	3
3	1548519	Seal	3
4	1606544	Clamp	3
5	1573549	Clamp	3
6	1606735	Sensor (Load Sensing)	1
7	1648259	Fitting	1

IMPACT SENSOR (FIGURE 4-27)

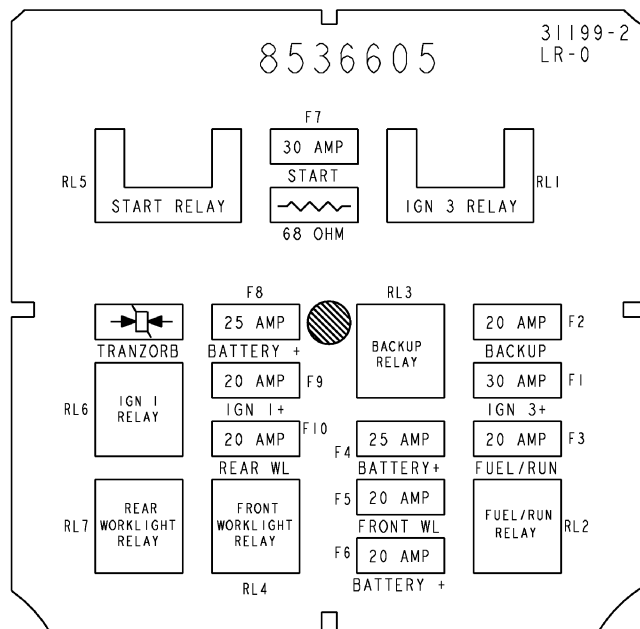
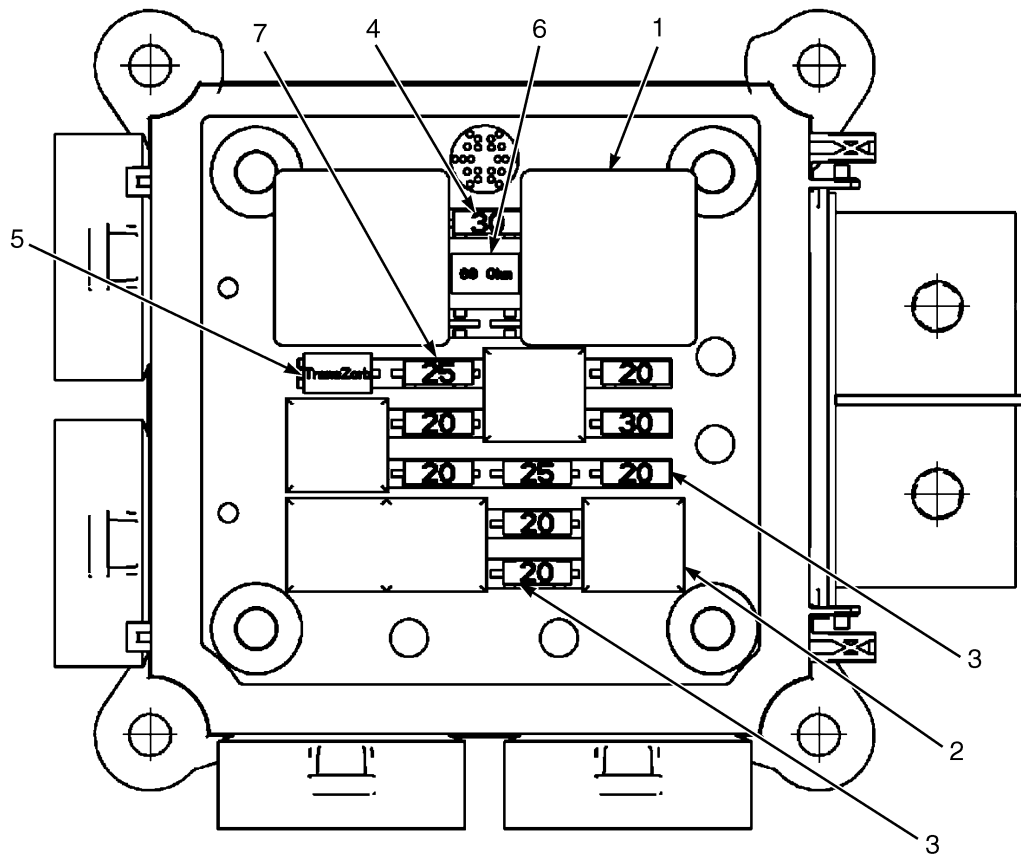


BP080394

IMPACT SENSOR

ITEM	PART NO.	DESCRIPTION	QTY
1	1535166	Bracket	1
2	1500912	Clip	2
3	1582464	Fastener	2
3	2100710	Fastener (Alternate Part)	1
4	2079281	Wire Harness (Impact Sensor)	1
5	1489655	Connector (4 Way)	1
6	1330416	Connector	1
7	1330437	Terminal (Pin)	4
8	1489656	Connector (4-Way)	2
9	1489657	Connector	2
10	1330438	Terminal (Socket)	8
11	1561759	Clamp (Swivel)	2
12	1542439	Clamp (Swivel)	2
13	1502055	Clamp (Swivel)	1
14	1527879	Capscrew	2
14	287851	Capscrew (Alternate Part)	2
14	320157	Washer (Alternate Part)	2
15	2079843	Sensor (Impact)	1
16	1489655	Connector (4 Way)	1
17	1330416	Connector	1
18	1330433	Terminal	4
19	1502053	Clamp (Swivel)	1

POWER DISTRIBUTION MODULE (FIGURE 4-28)

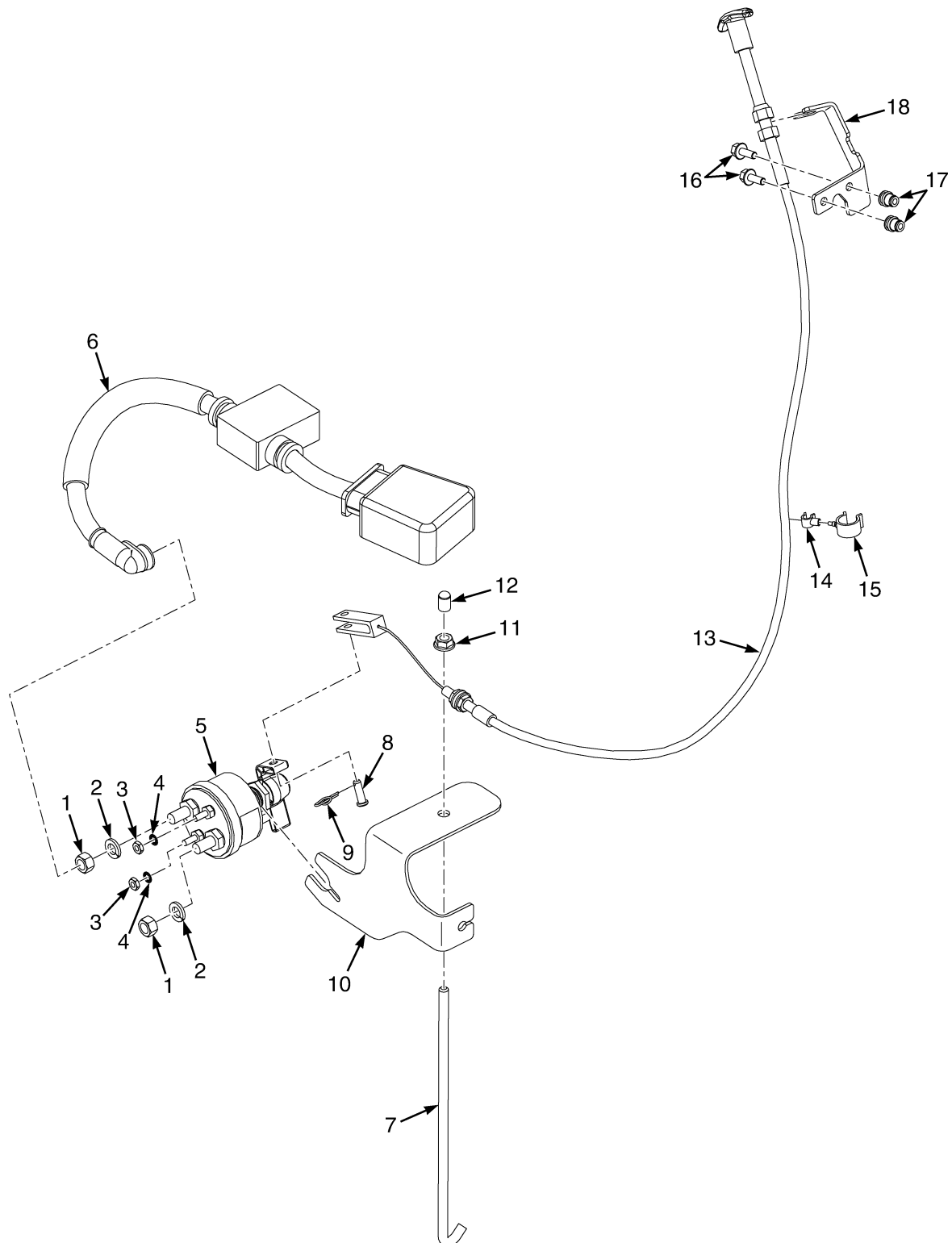


BP080485

POWER DISTRIBUTION MODULE

ITEM	PART NO.	DESCRIPTION	QTY
	2090613	Module	1
1	2044712	Relay (30 Amp)	2
2	1528315	Relay (20 Amp)	5
3	1528132	Fuse (20 Amp)	6
4	1528133	Fuse (30 Amp)	2
5	1528630	Semiconductor	1
6	1528631	Resistor (68 Ohm, 5 Watt)	1
7	1544255	Fuse (25 Amp)	2

BATTERY AND CONTROL CABLE DISCONNECT SWITCH (FIGURE 4-29)



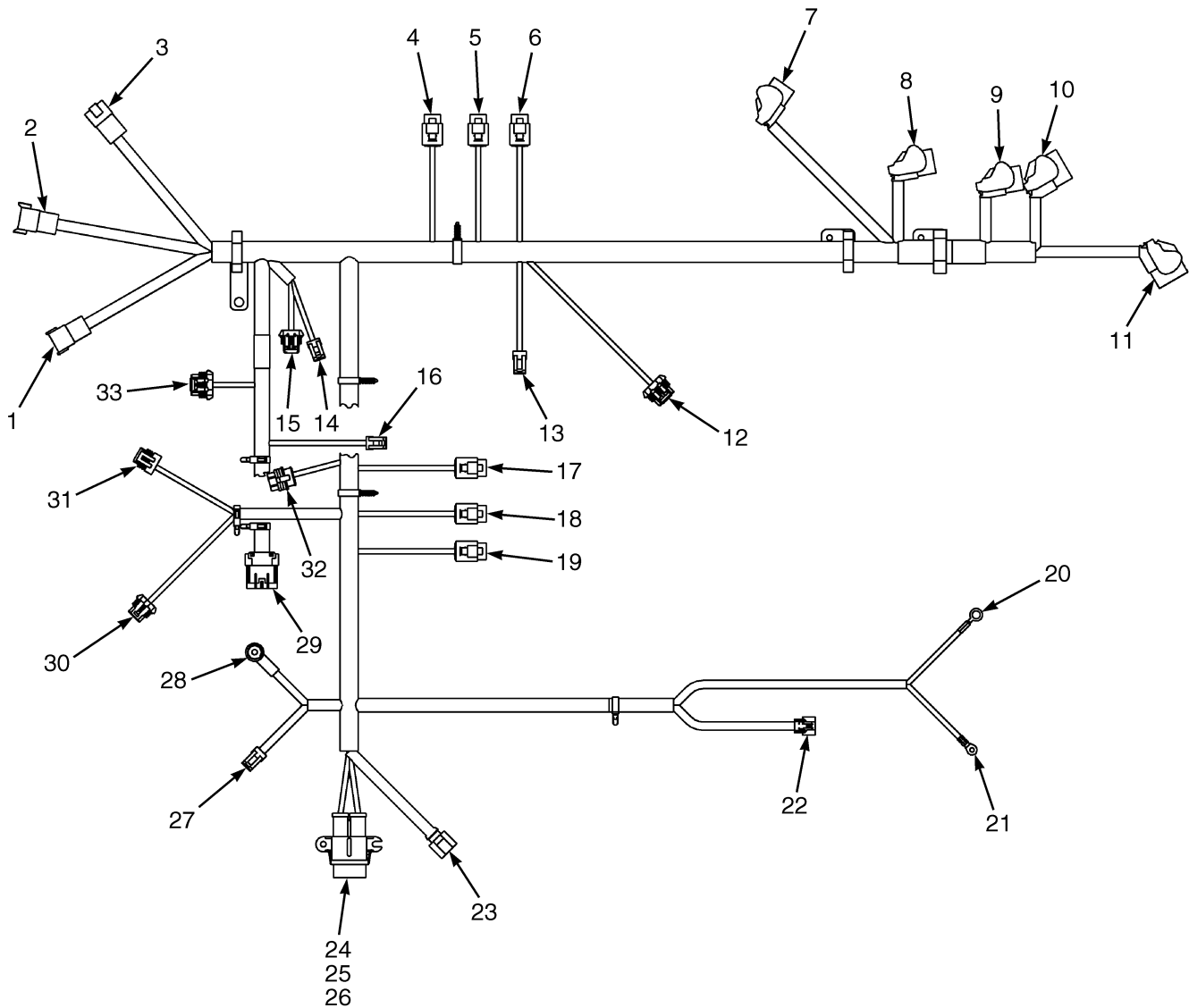
BP080737

BATTERY AND CONTROL CABLE DISCONNECT SWITCH

ITEM	PART NO.	DESCRIPTION	QTY
1	17407	Nut	2
2	15156	Lockwasher	2
3	15002	Nut	2
4	15916	Lockwasher	2
5	1578660	Switch	1
6	2098994	Battery Cable	1
6	1590368	Terminal	1
7	2065745	Link (Battery Hold Down)	1
8	126	Pin	1
9	1517361	Locking Ring Cotter Pin	1
10	1660295	Formed Bracket	1
11	1502543	Nut (Flange)	1
12	1540805	Cap	1
13	2093121	Cable Assy	1
14	1542440	Clamp (Swivel)	1
15	1543698	Clamp (Swivel)	1
16	1527876	Capscrew	2
17	1531558	Insert	2
18	1565382	Bracket	1
18	1703868	Bracket (Alternate Part)	1

WIRE HARNESS (FIGURE 4-30)

ENGINE — GM 4.3L LPG (→ PENDING PER ECN 10618101)



BP080686

WIRE HARNESS

ENGINE – GM 4.3L LPG (→ PENDING PER ECN 10618101)

ITEM	PART NO.	DESCRIPTION	QTY
	2093682	Wire Harness (Engine) (2008 - 2009 Series)	1
1		Connector Assembly (Chassis Harness)	1
1	1541988	Connector	1
2		Connector Assembly (Chassis Harness)	1
2	1330413	Connector	1
3		Connector Assembly (Chassis Harness)	1
3	1514597	Connector	1
4		Connector Assembly (Injector #5)	1
4	1561146	Terminal	2
4	1607548	Connector	1
5		Connector Assembly (Injector #3)	1
5	1561146	Terminal	2
5	1607548	Connector	1
6		Connector Assembly (Injector #1)	1
6	1561146	Terminal	2
6	1607548	Connector	1
7		Connector Assembly	1
8		Connector Assembly	1
9		Connector Assembly	1
10		Connector Assembly	1
11		Connector Assembly	1
12		Connector Assembly (RH Oxygen Sensor)	1
12	1482667	Connector Body	1
12	1402877	Electrical Terminal	4
12	1330355	Terminal	4
12	1482663	Connector	1
13		Connector Assembly	1
13	1323586	Connector	1
13	1354237	Terminal	2
14		Connector Assembly (Oil Pressure)	1
14	1327957	Connector	1
14	1354237	Terminal	3
15		Connector Assembly (Cam Sensor)	1
15	1476067	Connector	1
15	1476109	Connector Lock	1
15	1330355	Terminal	3
15	1476108	Wire Seal	3
16		Connector Assembly (Fuel Pressure)	1
16	1402613	Connector	1
16	1323576	Terminal	3
17		Connector Assembly (Injector #6)	1
17	1561146	Terminal	2
17	1607548	Connector	1
18		Connector Assembly (Injector #4)	1
18	1561146	Terminal	2
18	1607548	Connector	1
19		Connector Assembly (Injector #2)	1
19	1561146	Terminal	2
19	1607548	Connector	1
20		Connector Assembly (Battery)	1

WIRE HARNESS

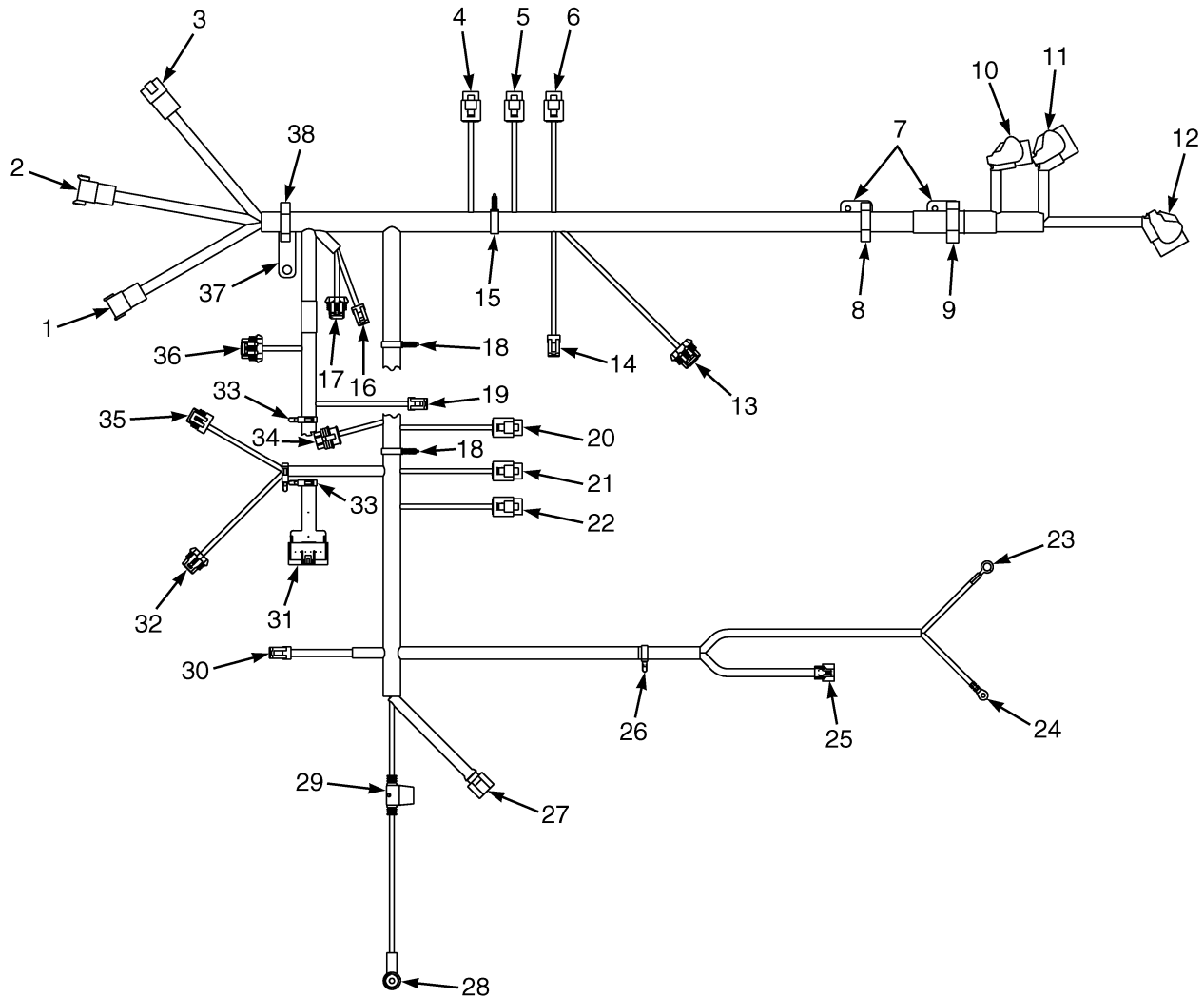
ENGINE – GM 4.3L LPG (→ PENDING PER ECN 10618101)

ITEM	PART NO.	DESCRIPTION	QTY
20	129886	E-Ring	1
21		Connector Assembly (Starter)	1
21	1519025	Ring Terminal	1
22		Connector Assembly (Crank Position Sensor)	1
22	1655119	Electrical Connector	1
22	1655120	Electrical Terminal	3
22	1655121	Seal	3
23		Connector Assembly	1
23	1607743	Connector	1
24		Connector Assembly	1
24	1543553	Fuse Holder	1
24	1454829	Fuse (60 Amp)	1
24	1520543	Terminal	2
25		Connector Assembly (Cover)	1
25	1454862	Cover (With Seal)	1
26		Connector Assembly	1
26	1454827	Seal	1
27		Connector Assembly (Alternator)	1
27	1323576	Terminal	2
27	1323586	Connector	1
28		Connector Assembly (Alternator)	1
28	148614	E-Ring	1
29		Connector Assembly (LH Chassis Harness)	1
29	1402809	Clip	1
29	1527275	Connector	1
30		Connector Assembly (Coil)	1
30	1476071	Connector	1
30	1402877	Electrical Terminal	2
30	1476109	Connector Lock	1
30	1330356	Seal	3
30	1351139	Seal	1
31		Connector Assembly (Ignition)	1
31	1547483	Connector	1
31	1354237	Terminal	1
31	1323576	Terminal	3
31	1476109	Connector Lock	1
32		Connector Assembly (Map Sensor)	1
32	1607839	Connector	1
32	1402814	Terminal	4
32	1562649	Seal	4
33		Connector Assembly (LH Oxygen Sensor)	1
33	1482663	Connector	1
33	1330355	Terminal	4
33	1402877	Electrical Terminal	4
33	1482667	Connector Body	1

NOTES

[illegible]

WIRE HARNESS (ENGINE) (FIGURE 4-31)
GM 4.3L LPG — 2010 SERIES (PENDING PER ECN 10618101 →)



BP080898

WIRE HARNESS (ENGINE)
GM 4.3L LPG – 2010 SERIES (PENDING PER ECN 10618101 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4601160	Wire Harness (Engine) (2010 Series)	1
1		Connector Assembly (Chassis Harness)	1
1	1541988	Connector	1
2		Connector Assembly (Chassis Harness)	1
2	1330413	Connector	1
3		Connector Assembly (Chassis Harness)	1
3	1514597	Connector	1
4		Connector Assembly (Injector #5)	1
4	1561146	Terminal	2
4	1607548	Connector	1
5		Connector Assembly (Injector #3)	1
5	1561146	Terminal	2
5	1607548	Connector	1
6		Connector Assembly (Injector #1)	1
6	1561146	Terminal	2
6	1607548	Connector	1
7	1558227	Clip	2
8	1532778	Clip	2
9	1532779	Clip	1
10		Connector Assembly (CP 203)	1
11		Connector Assembly (CP 204)	1
12		Connector Assembly (CP 205)	1
13		Connector Assembly (Right Hand Oxygen Sensor)	1
13	1482667	Connector Body	1
13	1402877	Electrical Terminal	4
13	1330355	Terminal	4
13	1482663	Connector	1
14		Connector Assembly (CTS)	1
14	1323586	Connector	1
14	1354237	Terminal	2
15	1509889	Clip	1
16		Connector Assembly (Oil Pressure)	1
16	1327957	Connector	1
16	1354237	Terminal	3
17		Connector Assembly (Cam Sensor)	1
17	1476067	Connector	1
17	1476109	Connector Lock	1
17	1330355	Terminal	3
17	1476108	Wire Seal	3
18	1608857	Clip	2
19		Connector Assembly (Fuel ABS Pressure)	1
19	1402613	Connector	1
19	1323576	Terminal	3
20		Connector Assembly (Injector #6)	1
20	1607548	Connector	1
20	1561146	Terminal	2
21		Connector Assembly (Injector #4)	1
21	1607548	Connector	1
21	1561146	Terminal	2
22		Connector Assembly (Injector #2)	1

WIRE HARNESS (ENGINE)

GM 4.3L LPG – 2010 SERIES (PENDING PER ECN 10618101 →)

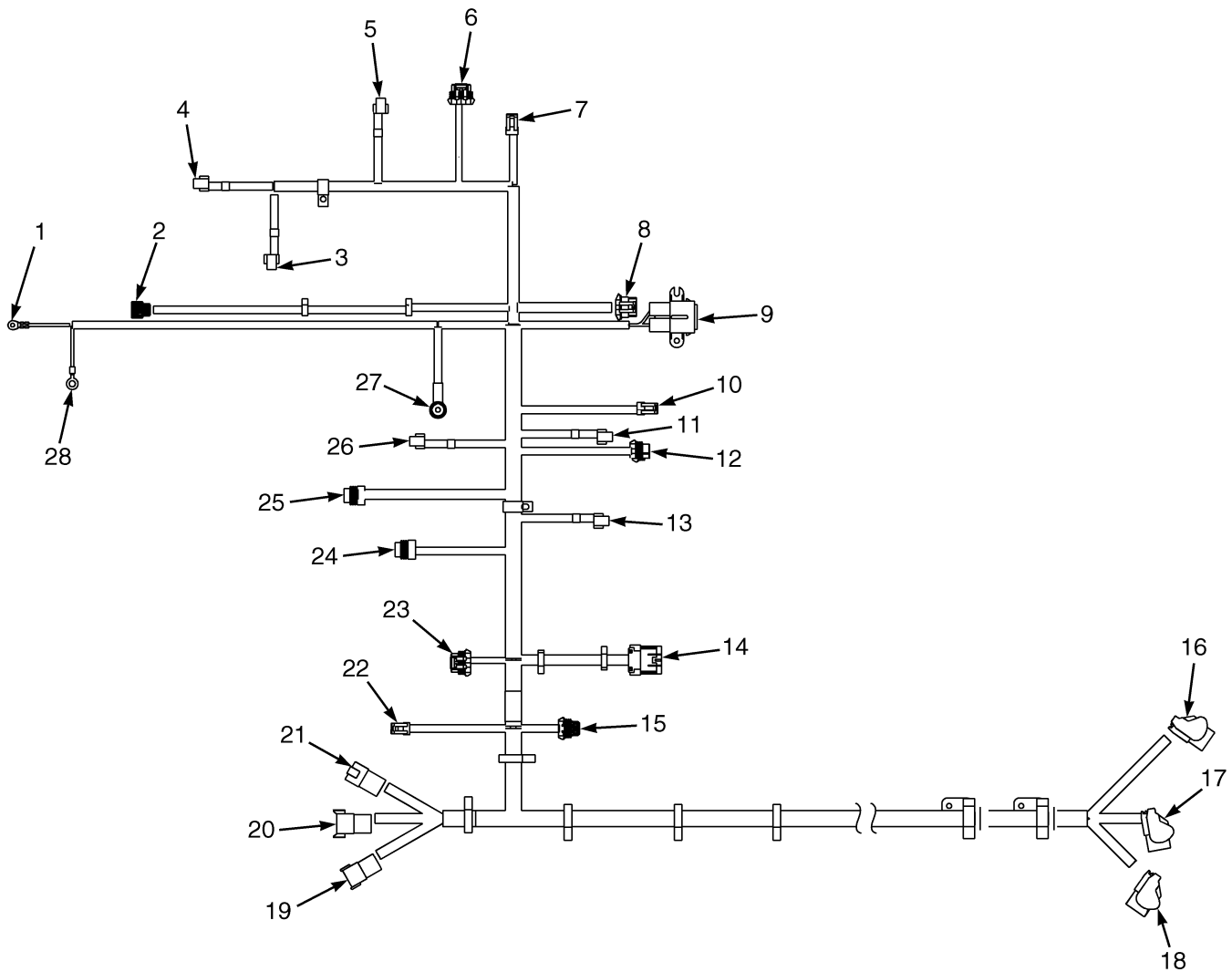
ITEM	PART NO.	DESCRIPTION	QTY
22	1607548	Connector	1
22	1561146	Terminal	2
23		Connector Assembly (Battery, Positive)	1
23	129886	E-Ring	1
24		Connector Assembly (Starter)	1
24	1519025	Ring Terminal	1
25		Connector Assembly (Crank Position)	1
25	1655119	Electrical Connector	1
25	1655120	Electrical Terminal	3
25	1655121	Seal	3
25	4001358	Retainer	1
26	1500901	Clip	1
27		Connector Assembly (Electronic Throttle Body)	1
27	1607743	Connector	1
28		Connector Assembly (Alternator Positive)	1
28	148614	E-Ring	1
28	1566146	Boot	1
29		Connector Assembly (Alternator Inline Fuse)	1
29	4008604	Fuse	1
29	4007984	Connector (Fuse Holder)	1
30		Connector Assembly (Alternator)	1
30	1323576	Terminal	2
30	1323586	Connector	1
31		Connector Assembly (Left Hand Chassis Harness)	1
31	1402809	Clip	1
31	4006329	Connector	1
32		Connector Assembly (Coil)	1
32	1476071	Connector	1
32	1402877	Electrical Terminal	2
32	1476109	Connector Lock	1
32	1330356	Seal	3
32	1351139	Seal	1
33	1500900	Clip	3
34		Connector Assembly (MAP/MAT)	1
34	1607839	Connector	1
34	1402814	Terminal	4
34	1562649	Seal	4
35		Connector Assembly (Ignition)	1
35	1547483	Connector	1
35	1354237	Terminal	1
35	1323576	Terminal	3
35	1476109	Connector Lock	1
36		Connector Assembly (Left Hand Oxygen Sensor)	1
36	1482663	Connector	1
36	1330355	Terminal	4
36	1402877	Electrical Terminal	4
36	1482667	Connector Body	1
37	1570327	Bracket	1
38	1532778	Clip	2

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-32)

ENGINE — GM 4.3L GASOLINE (→ PENDING PER ECN 10618101)



BP080685

WIRE HARNESS

ENGINE – GM 4.3L GASOLINE (→ PENDING PER ECN 10618101)

ITEM	PART NO.	DESCRIPTION	QTY
	2093681	Wire Harness (Engine) (2008 - 2009 Series)	1
1		Connector Assembly (Starter)	1
1	1519025	Ring Terminal	1
2		Connector Assembly (Crank Position)	1
2	1655119	Electrical Connector	1
2	1655120	Electrical Terminal	3
2	1655121	Seal	3
3		Connector Assembly (Injector 3)	1
4		Connector Assembly (Injector 5)	1
5		Connector Assembly (Injector 1)	1
6		Connector Assembly (Right Oxygen Sensor)	1
6	1482667	Connector Body	1
6	1330355	Terminal	4
6	1402877	Electrical Terminal	4
6	1482663	Connector	1
7		Connector Assembly (Temperature Sensor)	1
7	1323586	Connector	1
7	1354237	Terminal	2
8		Connector Assembly (Connector)	1
8	1607743	Connector	1
9		Connector Assembly (Connector)	1
9	1543553	Fuse Holder	1
9	1454829	Fuse (60 Amp)	1
9	1454862	Cover (With Seal)	1
9	1454827	Seal	2
9	1520543	Terminal	2
10		Connector Assembly (Alternator)	1
10	1323586	Connector	1
10	1323576	Terminal	2
11		Connector Assembly (Injector 2)	1
12		Connector Assembly (Coil)	1
12	1476071	Connector	1
12	1402877	Electrical Terminal	2
12	1330356	Seal	3
12	1351139	Seal	1
12	1476109	Connector Lock	1
13		Connector Assembly (Injector 6)	1
14		Connector Assembly (LH Chassis)	1
14	1527275	Connector	1
14	1402809	Clip	1
15		Connector Assembly (Cam Positioner Sensor)	1
15	1476067	Connector	1
15	1476109	Connector Lock	1
15	1330355	Terminal	3
15	1476108	Wire Seal	3
16		Connector Assembly (Connector)	1
17		Connector Assembly (Connector)	1
18		Connector Assembly (Connector)	1
19		Connector Assembly (Chassis Harness)	1
19	1541988	Connector	1

WIRE HARNESS

ENGINE – GM 4.3L GASOLINE (→ PENDING PER ECN 10618101)

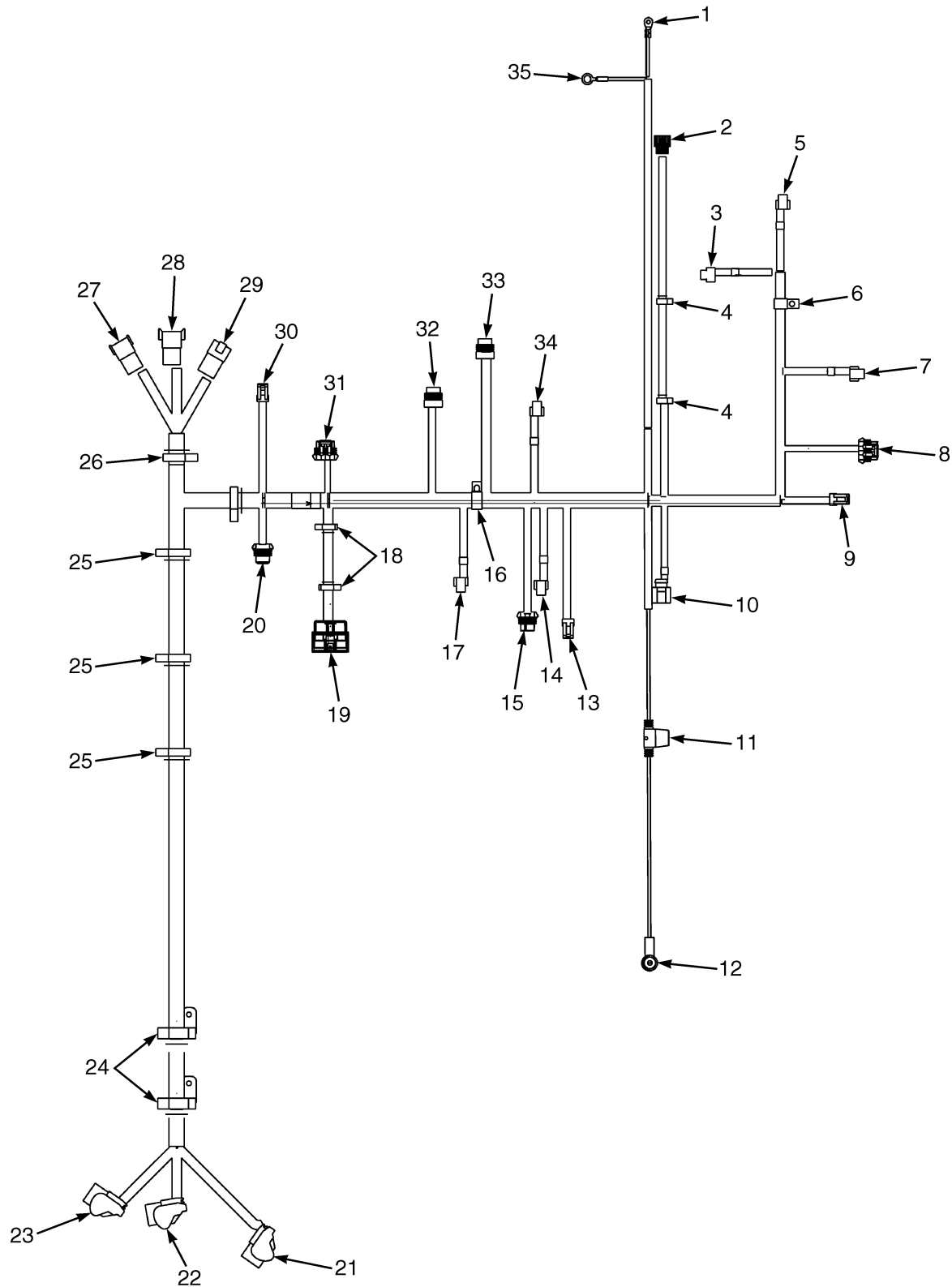
ITEM	PART NO.	DESCRIPTION	QTY
20		Connector Assembly (Chassis Harness)	1
20	1330413	Connector	1
21		Connector Assembly (Chassis Harness)	1
21	1514597	Connector	1
22		Connector Assembly (Oil Pressure)	1
22	1327957	Connector	1
22	1354237	Terminal	3
23		Connector Assembly (Left Oxygen Sensor)	1
23	1482667	Connector Body	1
23	1330355	Terminal	4
23	1402877	Electrical Terminal	4
23	1482663	Connector	1
24		Connector Assembly (Map Sensor)	1
24	1607839	Connector	1
24	1402814	Terminal	4
24	1562649	Seal	4
25		Connector Assembly (Ignition)	1
25	1547483	Connector	1
25	1354237	Terminal	1
25	1476109	Connector Lock	1
25	1323576	Terminal	3
26		Connector Assembly (Injector 4)	1
27		Connector Assembly (Alternator)	1
27	148614	E-Ring	1
27	1566146	Boot	1
28		Connector Assembly (Battery)	1
28	129886	E-Ring	1

NOTES

[illegible]

WIRE HARNESS (ENGINE) (FIGURE 4-33)

GM 4.3L GASOLINE (2010 SERIES) — WITH CATALYTIC CONVERTER (PENDING PER ECN 10618101 →)



BP080899

WIRE HARNESS (ENGINE)**GM 4.3L GASOLINE (2010 SERIES) – WITH CATALYTIC CONVERTER (PENDING PER ECN 10618101 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	4601159	Wire Harness (Engine) (2010 Series)	1
1		Connector Assembly (Starter)	1
1	1519025	Ring Terminal	1
2		Connector Assembly (Crank Position)	1
2	1655119	Electrical Connector	1
2	1655120	Electrical Terminal	3
2	1655121	Seal	3
2	4001358	Retainer	1
3		Connector Assembly (Injector #3)	1
4	1509888	Clip	2
5		Connector Assembly (Injector #5)	1
6	132972	Clamp	1
7		Connector Assembly (Injector #1)	1
8		Connector Assembly (Right Oxygen Sensor)	1
8	1482667	Connector Body	1
8	1330355	Terminal	4
8	1402877	Electrical Terminal	4
8	1482663	Connector	1
9		Connector Assembly (Coolant Temperature Sensor)	1
9	1323586	Connector	1
9	1354237	Terminal	2
10		Connector Assembly (Electronic Throttle Body)	1
10	1607743	Connector	1
11		Connector Assembly	1
11	4008604	Fuse	1
11	4007984	Connector (Fuse Holder)	1
12		Connector Assembly (Alternator, Positive)	1
12	148614	E-Ring	1
12	1566146	Boot	1
13		Connector Assembly (Alternator)	1
13	1323586	Connector	1
13	1323576	Terminal	1
14		Connector Assembly (Injector #4)	1
15		Connector Assembly (Coil)	1
15	1476071	Connector	1
15	1402877	Electrical Terminal	2
15	1330356	Seal	3
15	1351139	Seal	1
15	1476109	Connector Lock	1
16	181089	Clamp	1
17		Connector Assembly (Injector #6)	1
18	1500900	Clip	2
19		Connector Assembly (To Left Hand Chassis Harness)	1
19	4006329	Connector	1
19	1402809	Clip	1
20		Connector Assembly (Cam Position Sensor)	1
20	1476067	Connector	1
20	1476109	Connector Lock	1
20	1330355	Terminal	3
20	1476108	Wire Seal	3

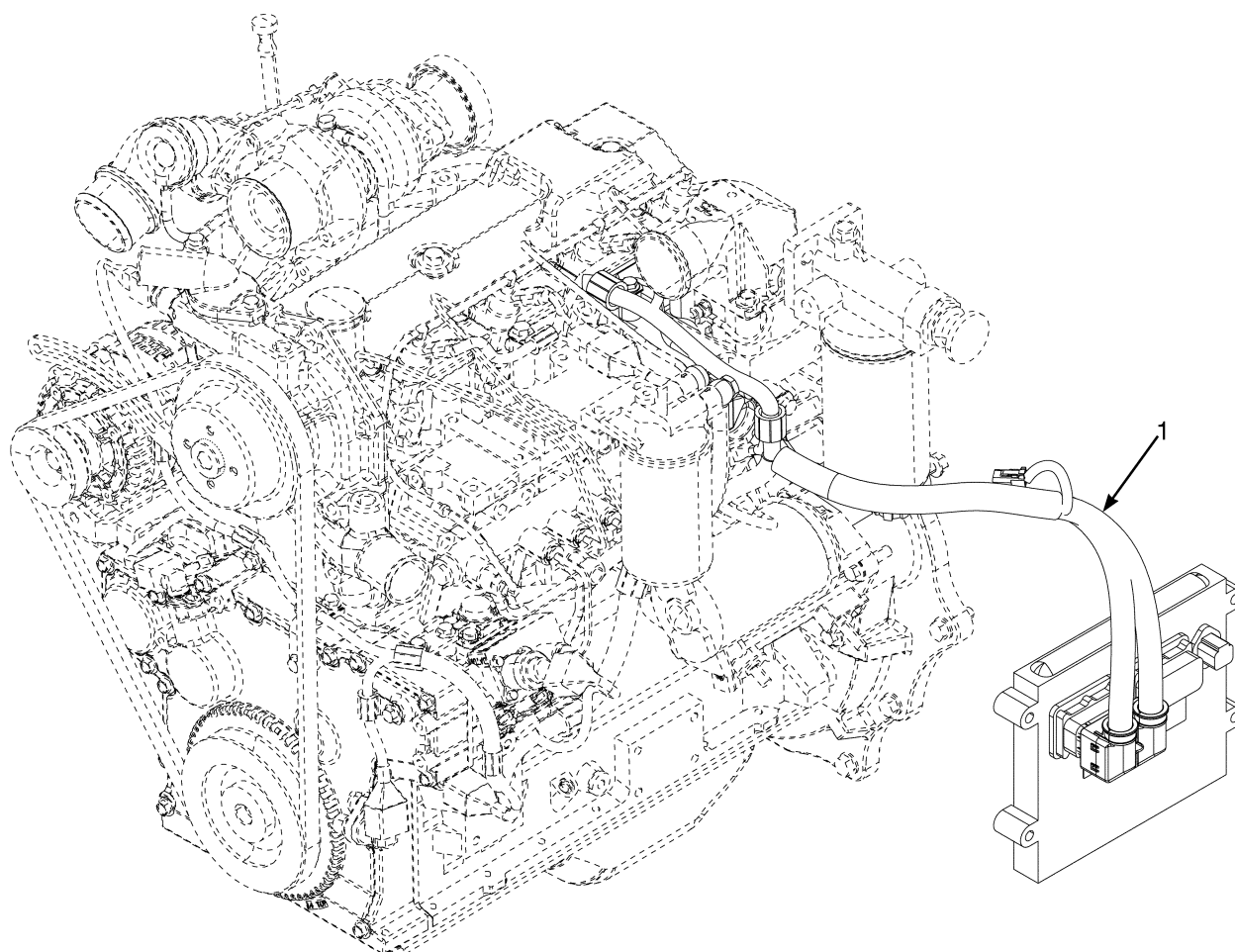
WIRE HARNESS (ENGINE)

GM 4.3L GASOLINE (2010 SERIES) – WITH CATALYTIC CONVERTER (PENDING PER ECN 10618101 →)

ITEM	PART NO.	DESCRIPTION	QTY
21		Connector Assembly	1
22		Connector Assembly	1
23		Connector Assembly	1
24	1558227	Clip	2
24	1532779	Clip	2
25	1540944	Clip	4
26	1540944	Clip	1
27		Connector Assembly	1
27	1541988	Connector	1
28		Connector Assembly	1
28	1330413	Connector	1
29		Connector Assembly	1
29	1514597	Connector	1
30		Connector Assembly (Oil Pressure)	1
30	1327957	Connector	1
30	1354237	Terminal	3
31		Connector Assembly (Left Oxygen Sensor)	1
31	1482667	Connector Body	1
31	1330355	Terminal	4
31	1402877	Electrical Terminal	4
31	1482663	Connector	1
32		Connector Assembly (MAP/MAT Sensor)	1
32	1607839	Connector	1
32	1402814	Terminal	4
32	1562649	Seal	4
33		Connector Assembly (Ignition)	1
33	1547483	Connector	1
33	1354237	Terminal	1
33	1476109	Connector Lock	1
33	1323576	Terminal	3
34		Connector Assembly (Injector #4)	1
35		Connector Assembly (Battery, Positive)	1
35	129886	E-Ring	1

NOTES

[illegible]

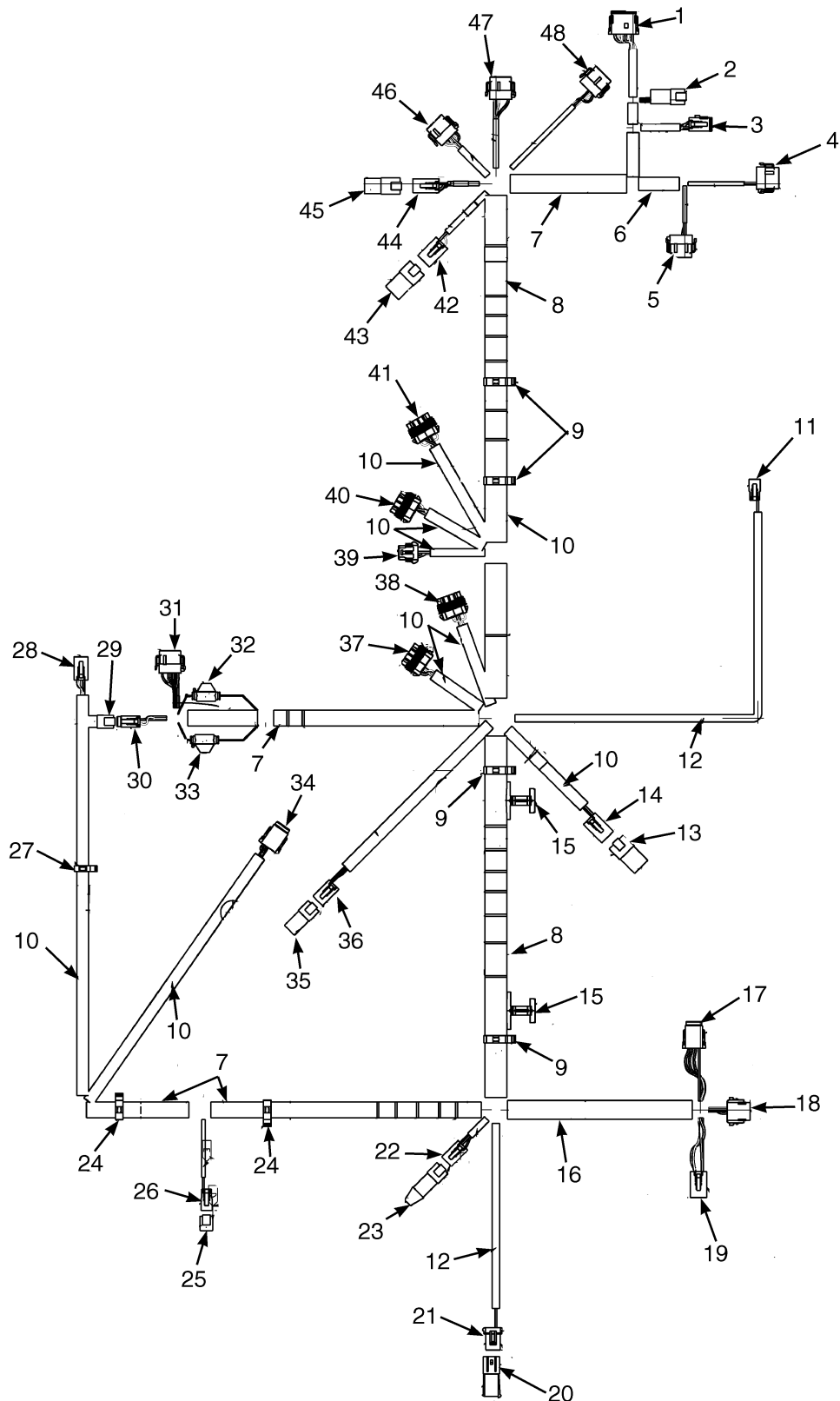
**WIRE HARNESS (FIGURE 4-34)
ENGINE — CUMMINS QSB 3.3L DIESEL**

BP090411

WIRE HARNESS
ENGINE – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1700243	Wire Harness (Engine)	1

WIRE HARNESS (FIGURE 4-35) RIGHT HAND CHASSIS — GM 4.3L GASOLINE AND LPG



BP080767

WIRE HARNESS

RIGHT HAND CHASSIS – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
	2105724	Wire Harness (Right Hand Chassis Harness)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525563	Connector	1
1	1500913	Connector	1
1	1330438	Terminal (Socket)	8
1	1363886	Terminal (Socket)	1
2		Connector Assembly (To Cowl Harness)	1
2	1489655	Connector (4 Way)	1
2	1330416	Connector	1
2	1330437	Terminal (Pin)	4
3		Connector Assembly (To Cowl Harness)	1
3	1493428	Connector (12-Way)	1
3	1500913	Connector	1
3	1330438	Terminal (Socket)	10
3	1484377	Plug	2
4		Connector Assembly (Vehicle System Manager)	1
4	1525567	Connector	1
4	1529046	Connector	1
4	1463139	Terminal	3
4	1484377	Plug	9
5		Connector Assembly (Vehicle System Manager)	1
5	1525569	Connector	1
5	1529046	Connector	1
5	1463139	Terminal	3
5	1484377	Plug	9
6	275496	Conduit	AR
7	275497	Conduit	AR
8	1540388	Conduit	AR
9	1534282	Clip	4
10	275495	Conduit	AR
11		Connector Assembly (Hydraulic Solenoid)	1
11	1490242	Connector	1
11	1490243	Connector	1
11	1330438	Terminal (Socket)	2
12	275493	Conduit	AR
13		Connector Assembly (Endcap)	1
13	1514597	Connector	1
13	1330439	Plug	4
14		Connector Assembly (Accessory Two)	1
14	1514602	Connector	1
14	1514603	Connector	1
14	1330439	Plug	1
14	1554359	Terminal	3
15	1620149	Clip	2
16	275498	Conduit	2
17		Connector Assembly (To Engine Harness)	1
17	1541991	Connector	1
17	1541992	Connector	1
17	1463139	Terminal	8
18		Connector Assembly (To Engine Harness)	1

WIRE HARNESS

RIGHT HAND CHASSIS – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
18	1502625	Connector	1
18	1502626	Connector	1
18	1330438	Terminal (Socket)	7
18	1484377	Plug	1
19		Connector Assembly (To Engine Harness)	1
19	1514602	Connector	1
19	1514603	Connector	1
19	1554359	Terminal	4
20		Connector Assembly (Endcap)	1
20	1329150	Connector	1
20	1329151	Terminal	1
20	1327164	Seal	2
21		Connector Assembly (Hydraulic Filter)	1
21	1329152	Plug	1
21	1329151	Terminal	1
21	1330281	Terminal	2
21	1402888	Seal	2
22		Connector Assembly (Bus Terminal Two)	1
22	1489656	Connector (4-Way)	1
22	1489657	Connector	1
22	1330438	Terminal (Socket)	4
23		Connector Assembly (Endcap)	1
23	1525577	Connector (With Resistor)	1
24	1534329	Clip	2
25		Connector Assembly (Endcap)	1
25	1626727	Connector	1
26		Connector Assembly (Alternate Horn Button)	1
26	1490242	Connector	1
26	1490243	Connector	1
26	1330438	Terminal (Socket)	2
27	1402815	Clip	1
28		Connector Assembly (To Rear Harness)	1
28	1493430	Connector	1
28	1529052	Connector	1
28	1330438	Terminal (Socket)	6
29		Connector Assembly (Endcap)	1
29	1530960	Connector	1
29	1484377	Plug	6
30		Connector Assembly (To Transmission Harness)	1
30	1531973	Connector	1
30	1531974	Connector	1
30	1463139	Terminal	5
30	1484377	Plug	1
31		Connector Assembly (To Transmission Harness)	1
31	1525567	Connector	1
31	1529046	Connector	1
31	1463139	Terminal	12
32		Connector Assembly (Ignition Fuse)	1
32	1602431	Fuse Holder	1
32	1498045	Fuse (7.5 Amp)	1

WIRE HARNESS

RIGHT HAND CHASSIS – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
33		Connector Assembly (Battery Fuse)	1
33	1602431	Fuse Holder	1
33	1498045	Fuse (7.5 Amp)	1
34		Connector Assembly (To Seat Harness)	1
34	1541991	Connector	1
34	1541992	Connector	1
34	1463139	Terminal	8
35		Connector Assembly (Endcap)	1
35	1525573	Connector	1
36		Connector Assembly (Impact Sensor)	1
36	1489656	Connector (4-Way)	1
36	1489657	Connector	1
36	1330438	Terminal (Socket)	4
37		Connector Assembly (Power Distribution Module)	1
37	1521183	Connector	1
37	1521188	Lock	1
37	1323579	Seal	7
37	1327164	Seal	1
37	1330281	Terminal	4
37	1521989	Terminal	3
38		Connector Assembly (Power Distribution Module)	1
38	1521184	Connector	1
38	1521188	Lock	1
38	1323579	Seal	5
38	1327164	Seal	1
38	1330281	Terminal	6
38	1521989	Terminal	1
38	1402888	Seal	2
39		Connector Assembly (Horn)	1
39	1476064	Connector	1
39	1476109	Connector Lock	1
39	1330356	Seal	2
39	1330355	Terminal	3
39	1476108	Wire Seal	1
40		Connector Assembly (Power Distribution Module)	1
40	1521186	Connector	1
40	1521188	Lock	1
40	1327164	Seal	1
40	1323579	Seal	7
40	1521989	Terminal	7
41		Connector Assembly (Power Distribution Module)	1
41	1521185	Connector	1
41	1521188	Lock	1
41	1323579	Seal	8
41	1330281	Terminal	5
41	1521989	Terminal	3
42		Connector Assembly (To Lights/Cab Harness)	1
42	1514602	Connector	1
42	1514603	Connector	1
42	1554359	Terminal	4

WIRE HARNESS

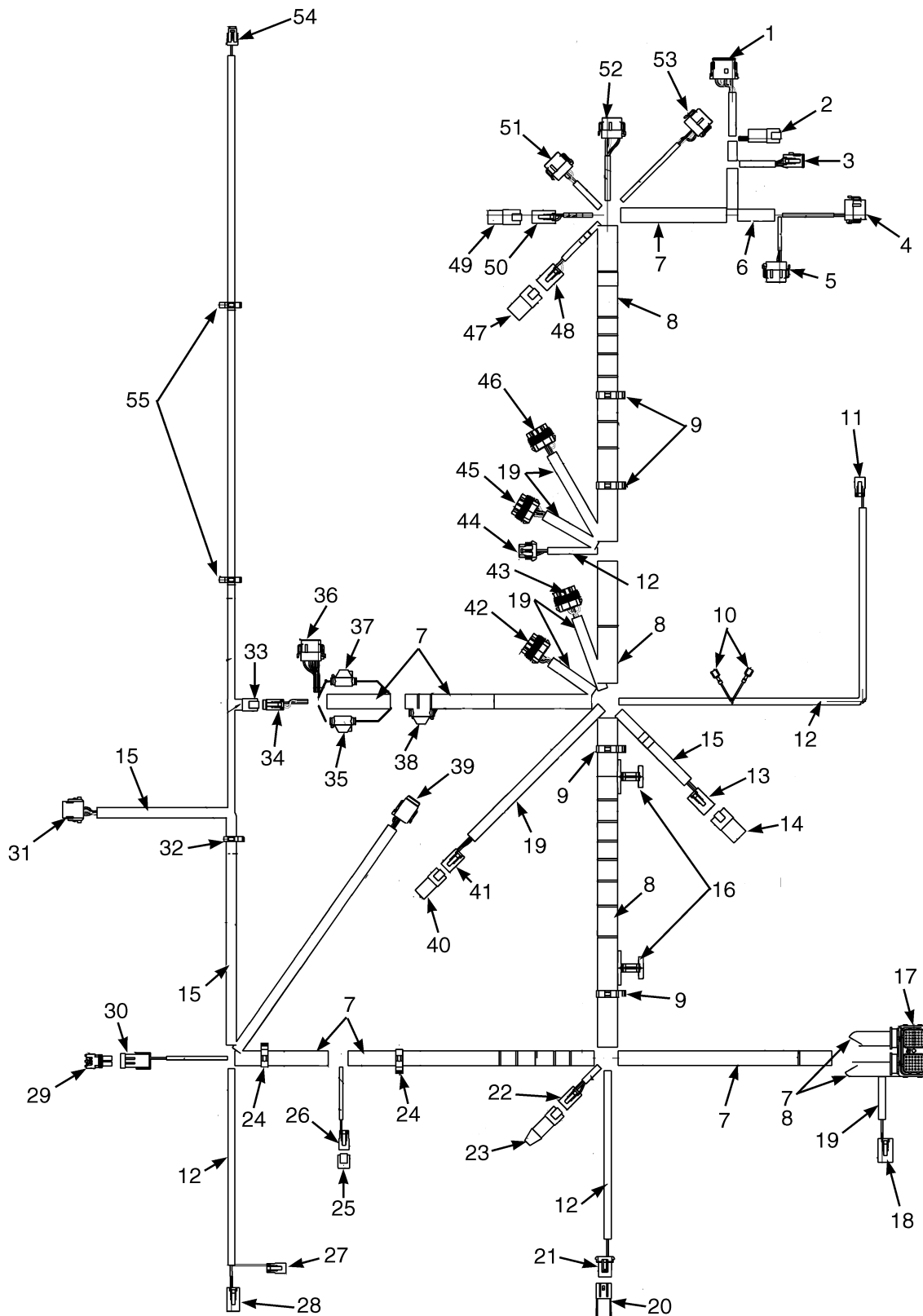
RIGHT HAND CHASSIS – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
43		Connector Assembly (Endcap)	1
43	1514597	Connector	1
43	1330439	Plug	4
44		Connector Assembly (Accessory One)	1
44	1545202	Connector	1
44	1546697	Connector	1
44	1554359	Terminal	1
45		Connector Assembly (Endcap)	1
45	1480187	Connector	1
45	1330439	Plug	2
46		Connector Assembly (Vehicle System Manager)	1
46	1525567	Connector	1
46	1530037	Connector	1
46	1463139	Terminal	6
46	1484377	Plug	6
47		Connector Assembly (Vehicle System Manager)	1
47	1525568	Connector	1
47	1530037	Connector	1
47	1463139	Terminal	6
47	1484377	Plug	6
48		Connector Assembly (Vehicle System Manager)	1
48	1525570	Connector	1
48	1530037	Connector	1
48	1463139	Terminal	4
48	1484377	Plug	8

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-36) RIGHT HAND CHASSIS — CUMMINS QSB 3.3L DIESEL



BP080764

WIRE HARNESS

RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2105725	Wire Harness (Right Hand Chassis)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525563	Connector	1
1	1500913	Connector	1
1	1330438	Terminal (Socket)	8
1	1363886	Terminal (Socket)	4
2		Connector Assembly (To Cowl Harness)	1
2	1489655	Connector (4 Way)	1
2	1330416	Connector	1
2	1330437	Terminal (Pin)	4
3		Connector Assembly (To Cowl Harness)	1
3	1493428	Connector (12-Way)	1
3	1500913	Connector	1
3	1330438	Terminal (Socket)	10
3	1484377	Plug	2
4		Connector Assembly (Vehicle System Manager)	1
4	1525567	Connector	1
4	1529046	Connector	1
4	1463139	Terminal	3
4	1484377	Plug	9
5		Connector Assembly (Vehicle System Manager)	1
5	1525569	Connector	1
5	1529046	Connector	1
5	1463139	Terminal	3
5	1484377	Plug	9
6	275496	Conduit	AR
7	275497	Conduit	AR
8	1540388	Conduit	AR
9	1534282	Clip	4
10		Connector Assembly (Contactor Ground)	1
10	1402849	Connector Body	1
10		Connector Assembly (Contactor Signal)	1
10	1402849	Connector Body	1
11		Connector Assembly (Hydraulic Solenoid)	1
11	1490242	Connector	1
11	1490243	Connector	1
11	1330438	Terminal (Socket)	2
12	275493	Conduit	1
13		Connector Assembly (Accessory 2)	1
13	1514602	Connector	1
13	1514603	Connector	1
13	1330439	Plug	1
13	1554359	Terminal	3
14		Connector Assembly (Endcap)	1
14	1514597	Connector	1
14	1330439	Plug	6
15	275495	Conduit	AR
16	1620149	Clip	2
17		Connector Assembly (Engine Control Module)	1
17	1664870	Connector	1

WIRE HARNESS

RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
17	1664886	Strain Relief	1
17	1484377	Plug	46
17	1507725	Terminal	14
18		Connector Assembly (Engine Control Module)	1
18	1514602	Connector	1
18	1514603	Connector	1
18	1330439	Plug	2
18	1554359	Terminal	2
19	275495	Conduit	AR
20		Connector Assembly (Endcap)	1
20	1329150	Connector	1
20	1329152	Plug	1
20	1327164	Seal	2
21		Connector Assembly (Hydraulic Filter)	1
21	1329152	Plug	1
21	1329151	Terminal	1
21	1330281	Terminal	1
21	1402888	Seal	2
22		Connector Assembly (Bus Terminal 2)	1
22	1489656	Connector (4-Way)	1
22	1489657	Connector	1
22	1330438	Terminal (Socket)	4
23		Connector Assembly (Endcap with Resistor)	1
23	1525577	Connector (With Resistor)	1
24	1534329	Clip	2
25		Connector Assembly (Endcap)	1
25	1626727	Connector	1
26		Connector Assembly (Alternate Horn Button)	1
26	1490242	Connector	1
26	1490243	Connector	1
26	1330438	Terminal (Socket)	2
27		Connector Assembly (To Alternator Harness)	1
27	1490242	Connector	1
27	1490243	Connector	1
27	1330438	Terminal (Socket)	1
27	1484377	Plug	1
28		Connector Assembly (To Alternator Harness)	1
28	1545202	Connector	1
28	1546697	Connector	1
28	1554359	Terminal	2
29		Connector Assembly (Endcap)	1
29	1465468	Connector	1
29	1327164	Seal	2
30		Connector Assembly (Air Restriction Sensor)	1
30	1465469	Connector	1
30	1323578	Terminal	2
30	1402888	Seal	2
31		Connector Assembly (To Rear Harness)	1
31	1502625	Connector	1
31	1502626	Connector	1

WIRE HARNESS

RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
31	1330438	Terminal (Socket)	7
31	1330355	Terminal	1
32	1402815	Clip	1
33		Connector Assembly (Endcap)	1
33	1530960	Connector	1
33	1484377	Plug	6
34		Connector Assembly (To Transmission Harness)	1
34	1531973	Connector	1
34	1531974	Connector	1
34	1463139	Terminal	5
34	1484377	Plug	1
35		Connector Assembly (Battery Fuse)	1
35	1602431	Fuse Holder	1
35	1498045	Fuse (7.5 Amp)	1
36		Connector Assembly (To Transmission Harness)	1
36	1525567	Connector	1
36	1529046	Connector	1
36	1463139	Terminal	12
37		Connector Assembly (Ignition Fuse)	1
37	1602431	Fuse Holder	1
37	1498045	Fuse (7.5 Amp)	1
38		Connector Assembly (Ignition Fuse)	1
38	1602431	Fuse Holder	1
38	1498044	Fuse (5 Amp)	1
39		Connector Assembly (To Seat Harness)	1
39	1541991	Connector	1
39	1541992	Connector	1
39	1463139	Terminal	8
40		Connector Assembly (Endcap)	1
40	1525573	Connector	1
41		Connector Assembly (Impact Sensor)	1
41	1489656	Connector (4-Way)	1
41	1489657	Connector	1
41	1330438	Terminal (Socket)	4
42		Connector Assembly (Power Distribution Module)	1
42	1521183	Connector	1
42	1521188	Lock	1
42	1323579	Seal	7
42	1327164	Seal	1
42	1330281	Terminal	4
42	1521989	Terminal	3
43		Connector Assembly (Power Distribution Module)	1
43	1521184	Connector	1
43	1521188	Lock	1
43	1323579	Seal	5
43	1327164	Seal	2
43	1330281	Terminal	5
43	1521989	Terminal	1
43	1402888	Seal	1
44		Connector Assembly (Horn)	1

WIRE HARNESS

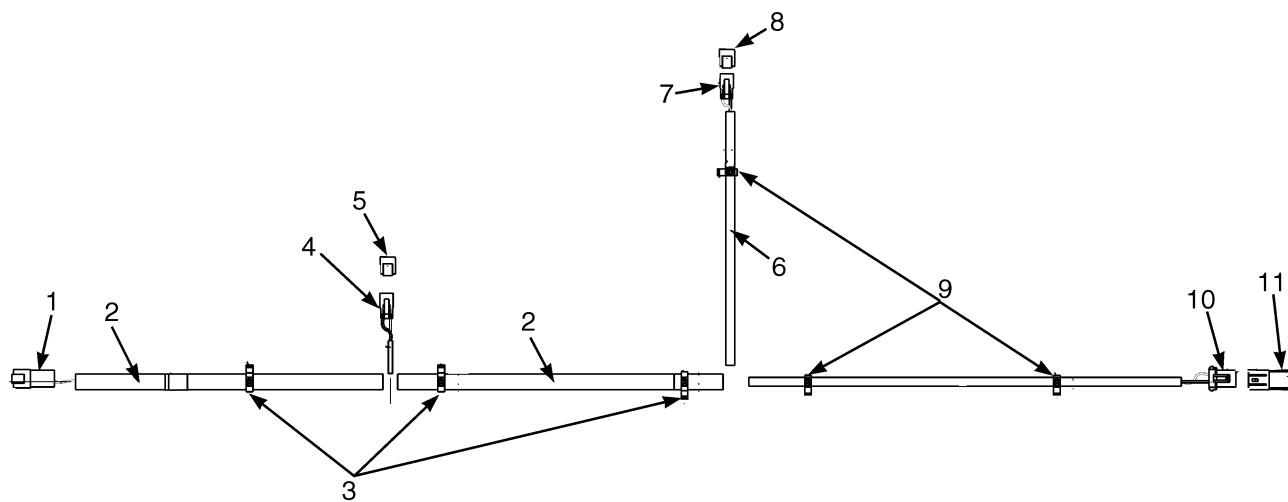
RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
44	1476064	Connector	1
44	1476109	Connector Lock	1
44	1330356	Seal	2
44	1330355	Terminal	3
44	1476108	Wire Seal	1
45		Connector Assembly (Power Distribution Module)	1
45	1521186	Connector	1
45	1521188	Lock	1
45	1323579	Seal	7
45	1327164	Seal	1
45	1521989	Terminal	7
46		Connector Assembly (Power Distribution Module)	1
46	1521185	Connector	1
46	1521188	Lock	4
46	1323579	Seal	7
46	1402888	Seal	1
46	1330281	Terminal	5
46	1521989	Terminal	3
47		Connector Assembly (Endcap)	1
47	1514597	Connector	1
47	1330439	Plug	4
48		Connector Assembly (To Lights/Cab Harness)	1
48	1514602	Connector	1
48	1514603	Connector	1
48	1554359	Terminal	4
49		Connector Assembly (Endcap)	1
49	1480187	Connector	1
49	1330439	Plug	2
50		Connector Assembly (Accessory 1)	1
50	1545202	Connector	1
50	1546697	Connector	1
50	1554359	Terminal	2
51		Connector Assembly (Vehicle System Manager)	1
51	1525567	Connector	1
51	1530037	Connector	1
51	1463139	Terminal	8
51	1554359	Terminal	4
52		Connector Assembly (Vehicle System Manager)	1
52	1525568	Connector	1
52	1530037	Connector	1
52	1463139	Terminal	6
52	1484377	Plug	6
53		Connector Assembly (Vehicle System Manager)	1
53	1525570	Connector	1
53	1530037	Connector	1
53	1463139	Terminal	4
53	1484377	Plug	8
54		Connector Assembly (Fuel Level)	1
54	1476077	Connector	1
54	1323576	Terminal	2

WIRE HARNESS
RIGHT HAND CHASSIS – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
55	1402816	Clip	2

WIRE HARNESS (FIGURE 4-37) REAR — GM 4.3L GASOLINE AND LPG

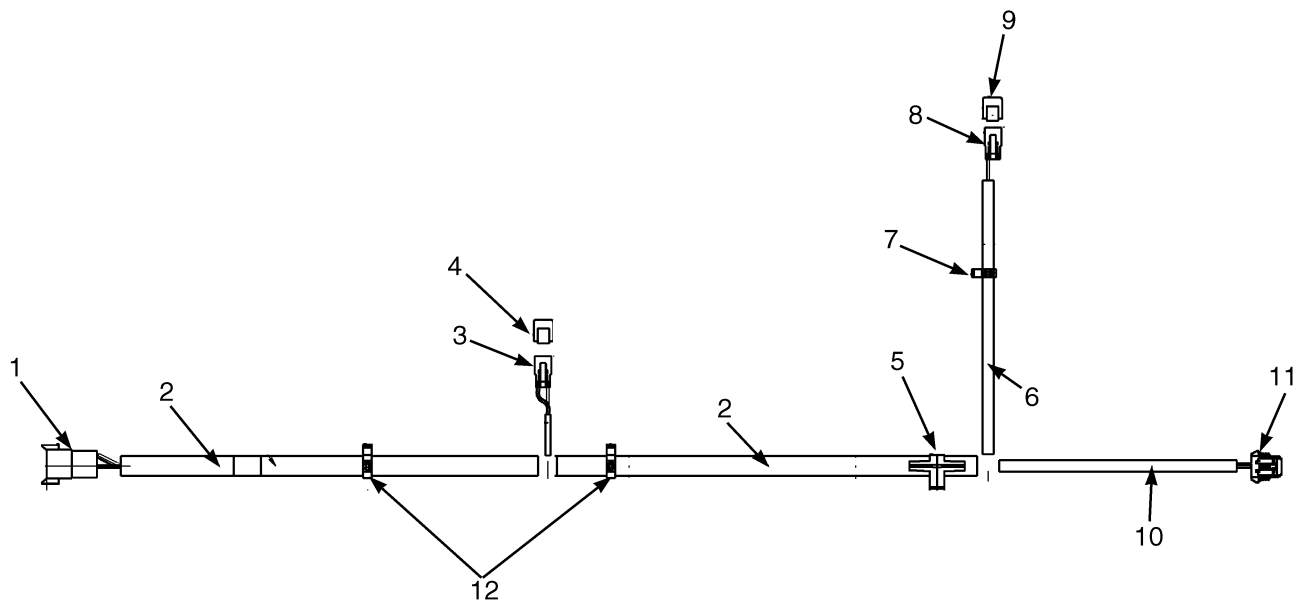


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WIRE HARNESS
REAR – GM 4.3L GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
	2092437	Wire Harness (Rear)	1
1		Connector Assembly (To RH Chassis Harness)	1
1	1402923	Connector	1
1	1330417	Connector	1
1	1330437	Terminal (Pin)	6
2	275496	Conduit	AR
3	1509890	Clip	3
4		Connector Assembly (To Keyswitch Harness)	1
4	1490242	Connector	1
4	1490243	Connector	1
4	1330438	Terminal (Socket)	2
5		Connector Assembly (Endcap)	1
5	1626727	Connector	1
6	275493	Conduit	AR
7		Connector Assembly (Backup Alarm)	1
7	1490242	Connector	1
7	1490243	Connector	1
7	1330438	Terminal (Socket)	2
8		Connector Assembly (Endcap)	1
8	1626727	Connector	1
9	1509888	Clip	3
10		Connector Assembly (Coolant Level)	1
10	1329152	Plug	1
10	1329151	Terminal	1
10	1330281	Terminal	2
10	1402888	Seal	2
11		Connector Assembly (Endcap)	1
11	1329150	Connector	1
11	1329151	Terminal	1
11	1327164	Seal	2

WIRE HARNESS (FIGURE 4-38) REAR — CUMMINS QSB 3.3L DIESEL



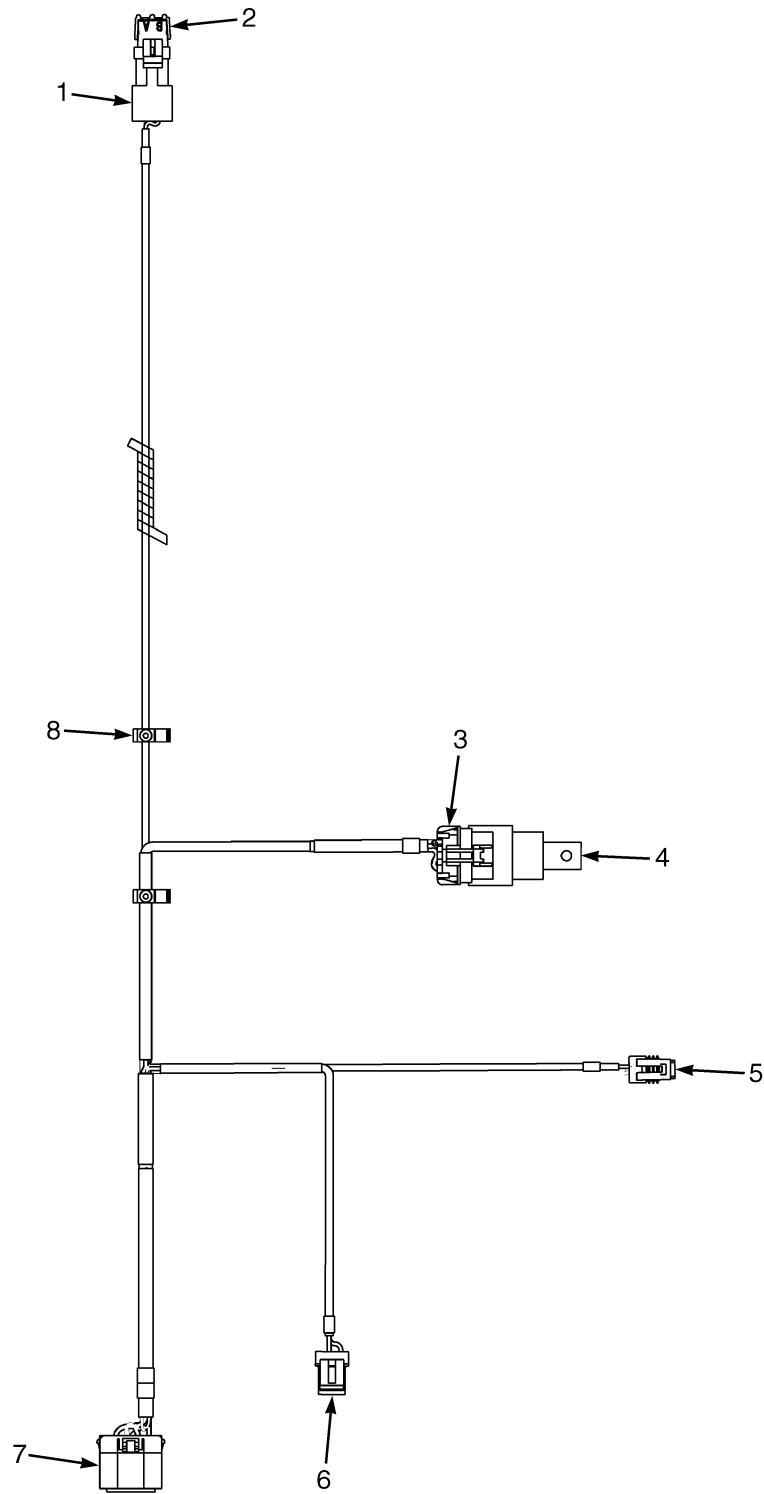
BP080754

WIRE HARNESS
REAR – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2106387	Wire Harness (Rear)	1
1		Connector Assembly (To RH Chassis Harness)	1
1	1623050	Housing	1
1	1330418	Connector	1
1	1330437	Terminal (Pin)	7
1	1484377	Plug	1
2	275496	Conduit	AR
3		Connector Assembly (To Keyswitch Harness)	1
3	1490242	Connector	1
3	1490243	Connector	1
3	1330438	Terminal (Socket)	2
4		Connector Assembly (Endcap)	1
4	1626727	Connector	1
5	1587778	Clip	1
6	275493	Conduit	AR
7	1509888	Clip	1
8		Connector Assembly (Backup Alarm)	1
8	1490242	Connector	1
8	1490243	Connector	1
8	1330438	Terminal (Socket)	2
9		Connector Assembly (Endcap)	1
9	1626727	Connector	1
10	275493	Conduit	AR
11		Connector Assembly (Coolant Level)	1
11	1476067	Connector	1
11	1476109	Connector Lock	1
11	1330355	Terminal	3
11	1476108	Wire Seal	3
12	1509890	Clip	3

WIRE HARNESS (FIGURE 4-39)

LEFT HAND CHASSIS — GM 4.3L GASOLINE (→ PENDING PER ECN 10618101)



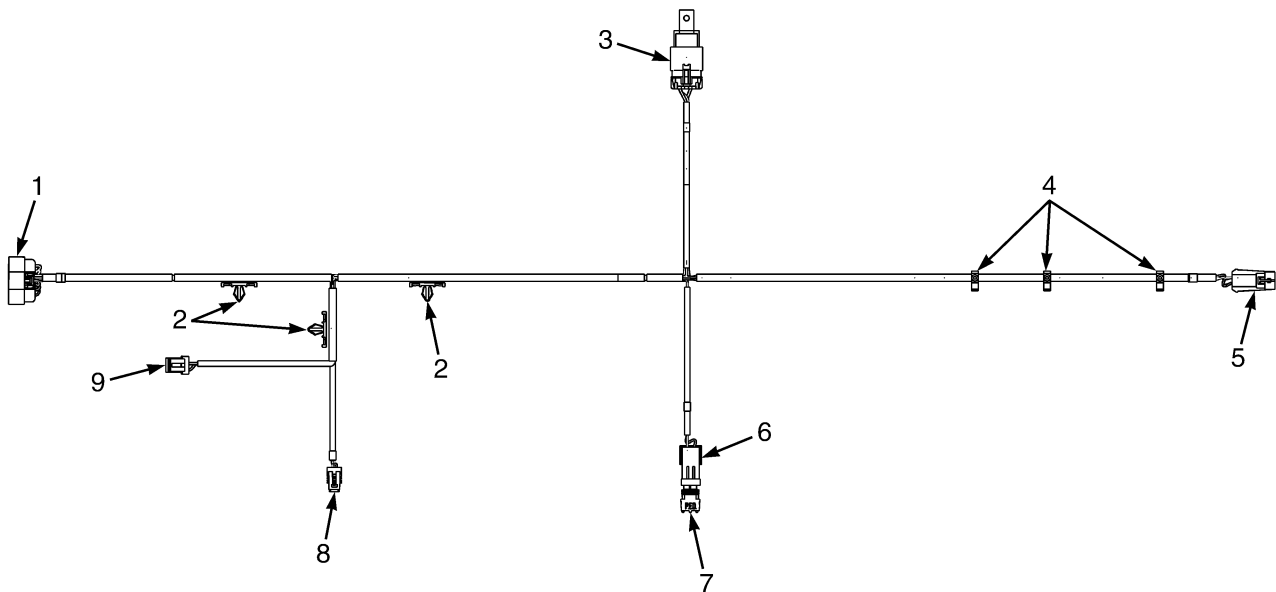
BP080542

WIRE HARNESS**LEFT HAND CHASSIS – GM 4.3L GASOLINE (→ PENDING PER ECN 10618101)**

ITEM	PART NO.	DESCRIPTION	QTY
	2094677	Wire Harness (LH Chassis)	1
1		End Cap	1
1	1461743	Relay	1
2		Connector Assembly (Air Restriction Cap)	1
2	1465468	Connector	1
2	1327164	Seal	2
3		Connector Assembly (Air Restriction)	1
3	1402888	Seal	2
3	1465469	Connector	1
3	1323578	Terminal	2
4	1539859	Clip	1
5		Connector Assembly (Fuel Level)	1
5	1476077	Connector	1
5	1323576	Terminal	2
6		Connector Assembly (Fuel Pump)	1
6	1519611	Connector	1
6	1323576	Terminal	2
7		Connector Assembly (To Engine Harness)	1
7	1527273	Connector	1
7	1402926	Terminal	3
7	1402927	Terminal	5
7	1507571	Seal	5
7	1402929	Wire Seal	3
7	1527305	Connector Lock	1
8		Connector Assembly (Latch Relay)	1
8	1461744	Connector Body	1
8	1323579	Seal	4
8	1402912	Terminal	4
8	1498483	Sealant	1

WIRE HARNESS (FIGURE 4-40)

LEFT HAND CHASSIS — GM 4.3L GASOLINE (SERIES 2010) (PENDING PER ECN 10618101 →)

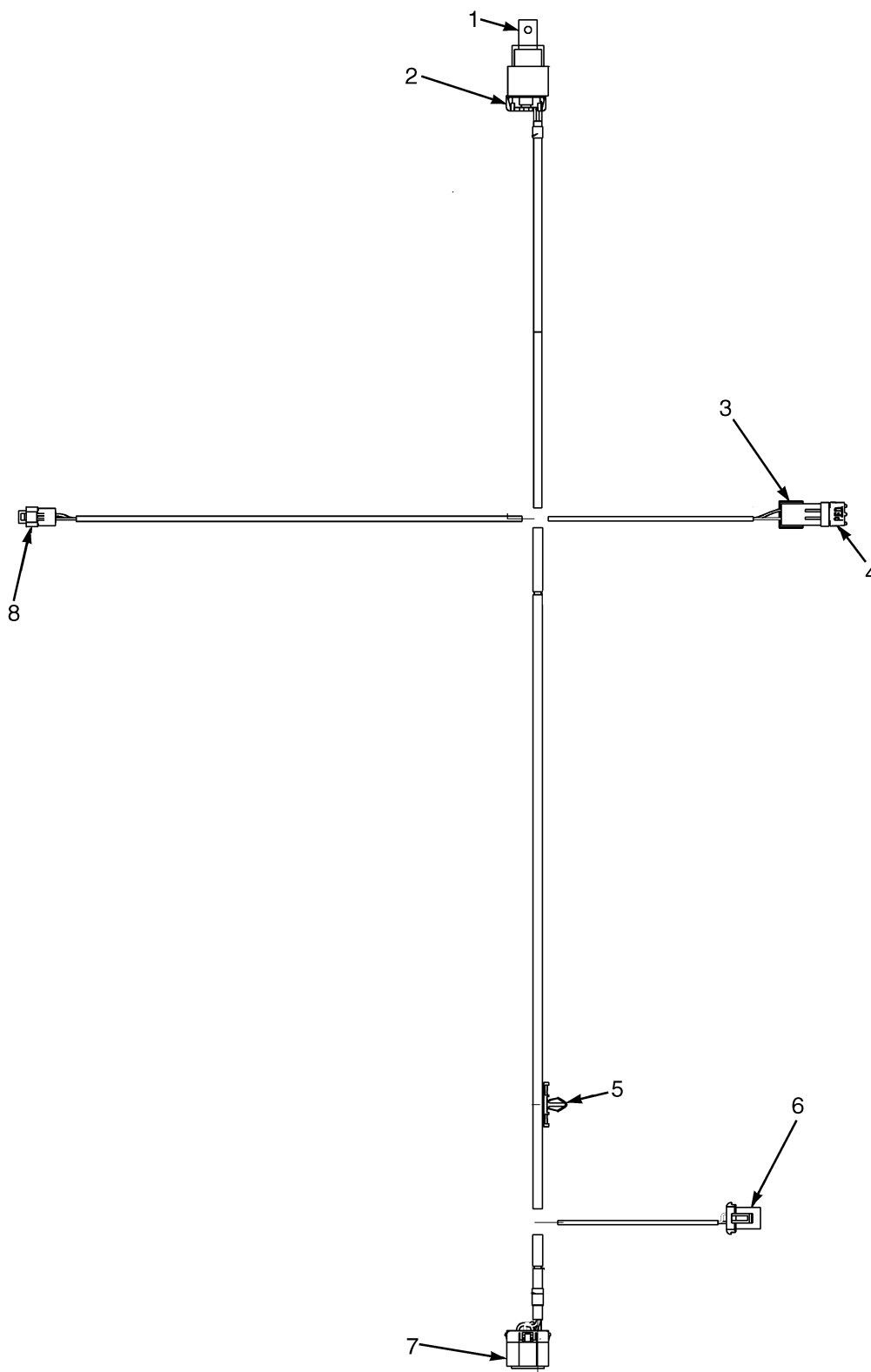


BP080935

WIRE HARNESS**LEFT HAND CHASSIS – GM 4.3L GASOLINE (SERIES 2010) (PENDING PER ECN 10618101 →)**

ITEM	PART NO.	DESCRIPTION	QTY
	4604430	Wire Harness (LH Chassis) (Left Hand Chassis)	1
1		Connector Assembly (To Engine Harness)	1
1	4006330	Connector	1
1	1527305	Connector Lock	1
1	1402926	Terminal	3
1	1402927	Terminal	9
1	1402929	Wire Seal	3
1	1507571	Seal	9
2	1539859	Clip	3
3		Connector Assembly (Latch Relay)	1
3	1461744	Connector Body	1
3	1503088	Lock	1
3	1327164	Seal	1
3	1402912	Terminal	4
3	1323579	Seal	4
4	1509888	Clip	3
5		Connector Assembly (Rear Oxygen Sensor)	1
5	1498424	Housing	1
5	1650797	Lock	1
5	1482666	Connector Body (Male)	4
5	1476108	Wire Seal	4
6		Connector Assembly (Air Restriction Sensor)	1
6	1465469	Connector	1
6	1323578	Terminal	2
6	1402888	Seal	2
7		Connector Assembly (Air Restriction Sensor Cap)	1
7	1465468	Connector	1
7	1327164	Seal	2
8		Connector Assembly (Fuel Level)	1
8	1476077	Connector	1
8	1323576	Terminal	2
9		Connector Assembly (Fuel Pump)	1
9	1519611	Connector	1
9	1323576	Terminal	2

WIRE HARNESS (FIGURE 4-41)
LEFT HAND CHASSIS — GM 4.3L LPG (→ PENDING PER ECN 10618101)

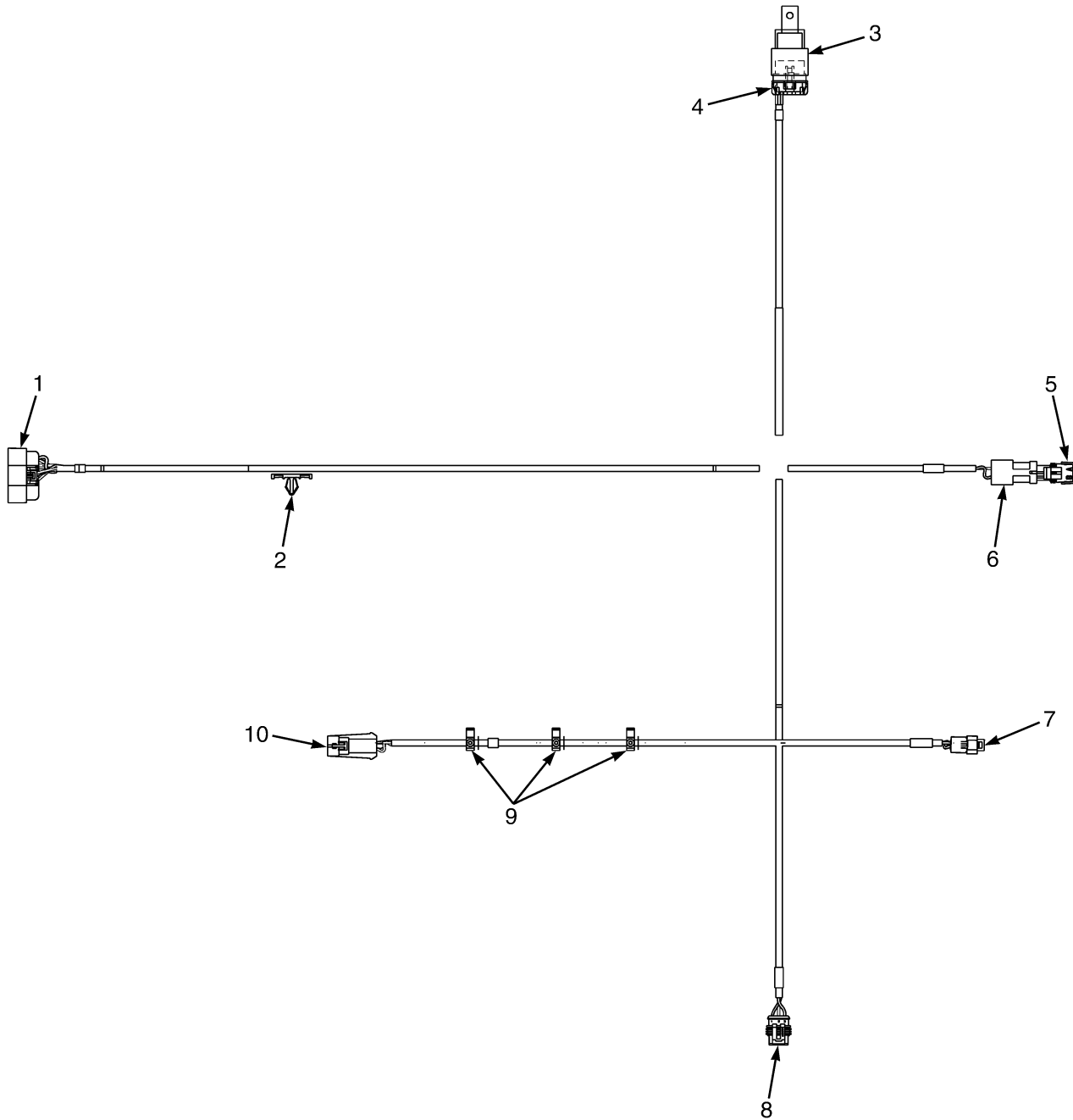


BP080584

WIRE HARNESS **LEFT HAND CHASSIS – GM 4.3L LPG (→ PENDING PER ECN 10618101)**

ITEM	PART NO.	DESCRIPTION	QTY
	2094678	Wire Harness (LH Chassis)	1
1	1461743	Relay	1
2		Connector Assembly (Latch Relay)	1
2	1461744	Connector Body	1
2	1323579	Seal	4
2	1327164	Seal	1
2	1402912	Terminal	4
2	1498483	Sealant	1
3		Connector Assembly (Air Restriction)	1
3	1465469	Connector	1
3	1323578	Terminal	2
3	1402888	Seal	2
4		Connector Assembly (Air Restriction Cap)	1
4	1327164	Seal	2
4	1465468	Connector	1
5	1539859	Clip	1
6		Connector Assembly (Low LPG Switch)	1
6	1329152	Plug	1
6	1329148	Terminal	2
6	1402888	Seal	2
6	1329151	Terminal	1
7		Connector Assembly (To Engine Wire Harness)	1
7	1527273	Connector	1
7	1402926	Terminal	3
7	1402927	Terminal	5
7	1402929	Wire Seal	3
7	1507571	Seal	5
7	1527305	Connector Lock	1
8		Connector Assembly (LPG Lockoff)	1
8	1599337	Connector	1
8	1561146	Terminal	2

WIRE HARNESS (FIGURE 4-42)
LEFT HAND CHASSIS — GM 4.3L LPG (2010 SERIES)(WITH PREMIUM LOW FUEL SENSOR)
(PENDING PER ECN 10618101 →)



BP080933

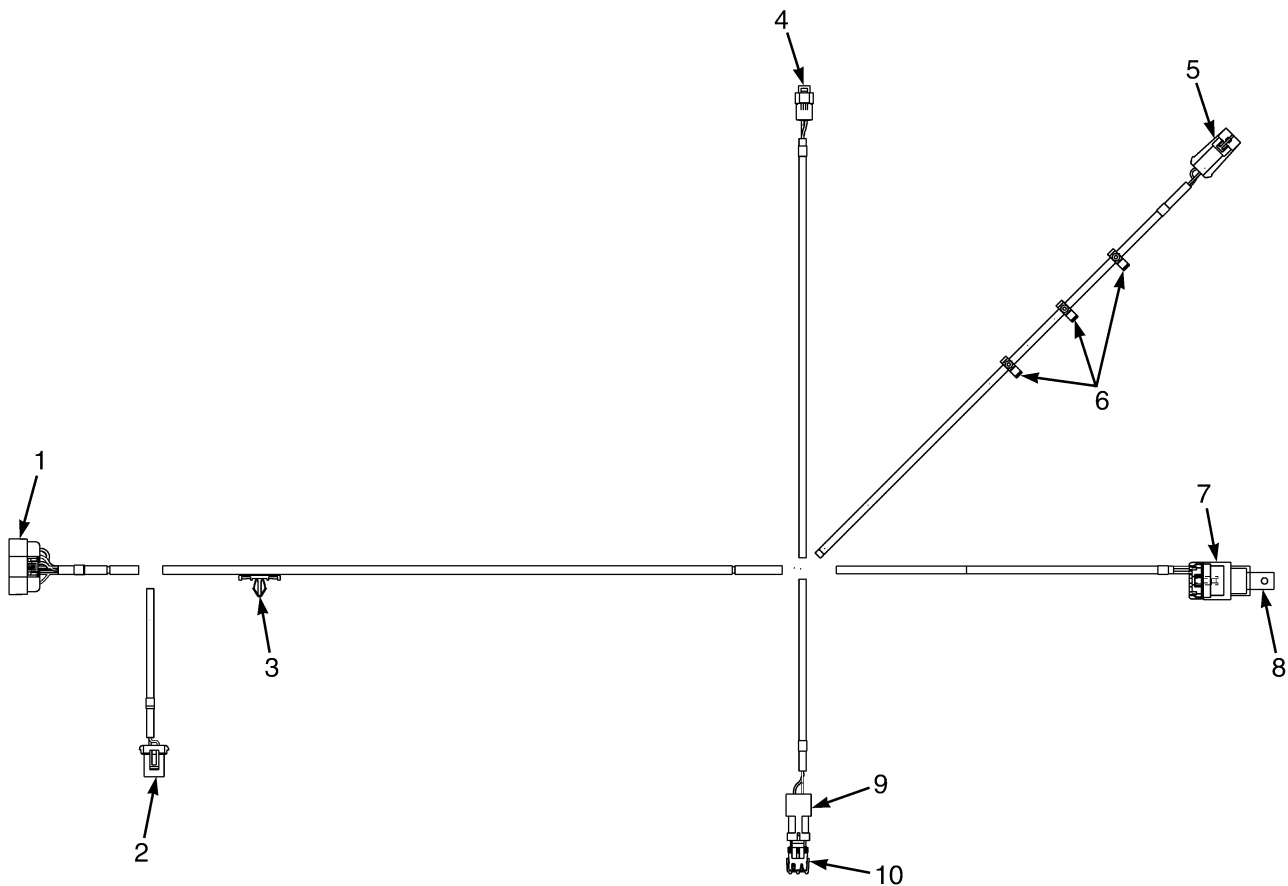
WIRE HARNESS

LEFT HAND CHASSIS – GM 4.3L LPG (2010 SERIES)(WITH PREMIUM LOW FUEL SENSOR)
(PENDING PER ECN 10618101 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4604389	Wire Harness (LH Chassis) (Left Hand Chassis)	1
1		Connector Assembly (To Engine Harness)	1
1	4006330	Connector	1
1	1527305	Connector Lock	1
1	1402926	Terminal	3
1	1402927	Terminal	9
1	1402929	Wire Seal	3
1	1507571	Seal	9
2	1539859	Clip	1
3		Connector Assembly (Relay)	1
3	1465468	Connector	1
4		Connector Assembly (Latching Relay)	1
4	1461744	Connector Body	1
4	1503088	Lock	1
4	1327164	Seal	1
4	1402912	Terminal	4
4	1323579	Seal	4
5		Connector Assembly (Air Restriction Sensor Cap)	1
5	1465468	Connector	1
5	1327164	Seal	2
6		Connector Assembly (Air Restriction Sensor)	1
6	1465469	Connector	1
6	1323578	Terminal	2
6	1402888	Seal	2
7		Connector Assembly (LPG Lockoff)	1
7	1599337	Connector	1
7	1623057	Terminal	2
8		Connector Assembly (Low LPG Sensor)	1
8	1547629	Connector	1
8	1508232	Terminal	3
8	1323579	Seal	3
9	1509888	Clip	3
10		Connector Assembly (Rear Oxygen Sensor)	1
10	1498424	Housing	1
10	1650797	Lock	1
10	1482666	Connector Body (Male)	4
10	1476108	Wire Seal	4

WIRE HARNESS (FIGURE 4-43)

LEFT HAND CHASSIS — GM 4.3L LPG (2010 SERIES)(WITHOUT PREMIUM LOW FUEL SENSOR)
(PENDING PER ECN 10618101 →)



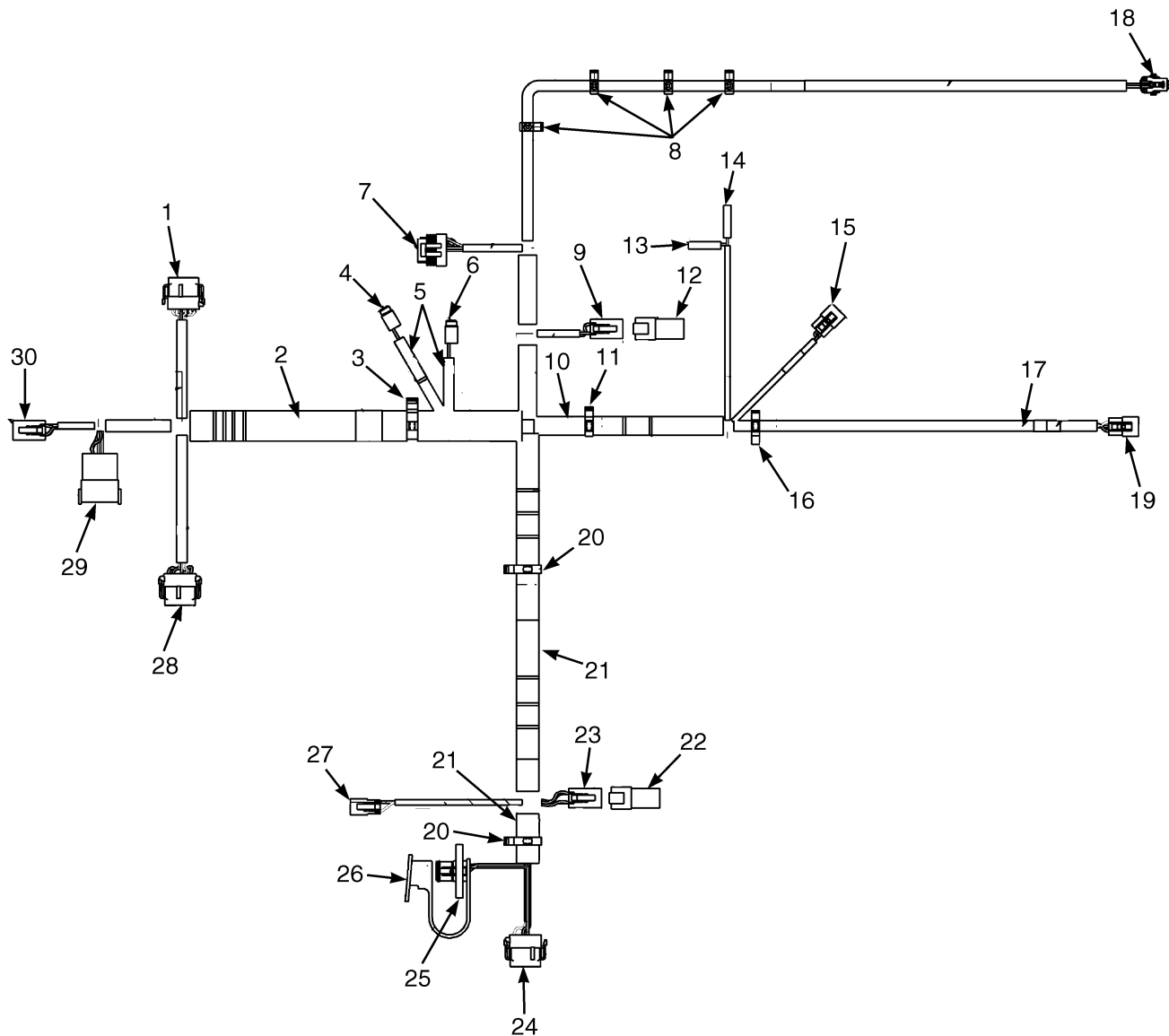
BP080934

WIRE HARNESS

LEFT HAND CHASSIS – GM 4.3L LPG (2010 SERIES)(WITHOUT PREMIUM LOW FUEL SENSOR)
(PENDING PER ECN 10618101 →)

ITEM	PART NO.	DESCRIPTION	QTY
	4604394	Wire Harness (LH Chassis) (Left Hand Chassis)	1
1		Connector Assembly (To Engine Harness)	1
1	4006330	Connector	1
1	1527305	Connector Lock	1
1	1402926	Terminal	3
1	1402927	Terminal	9
1	1402929	Wire Seal	3
1	1507571	Seal	9
2		Connector Assembly (Low LPG Switch)	1
2	1329152	Plug	1
2	1329151	Terminal	1
2	1329148	Terminal	2
2	1402888	Seal	2
3	1539859	Clip	1
4		Connector Assembly (LPG Lockoff)	1
4	1599337	Connector	1
4	1623057	Terminal	2
5		Connector Assembly (Rear Oxygen Sensor)	1
5	1498424	Housing	1
5	1650797	Lock	1
5	1482666	Connector Body (Male)	4
5	1476108	Wire Seal	4
6	1509888	Clip	3
7		Connector Assembly (Latch Relay)	1
7	1461744	Connector Body	1
7	1503088	Lock	1
7	1327164	Seal	1
7	1402912	Terminal	4
7	1323579	Seal	4
8		Connector Assembly (Relay)	1
8	1461743	Relay	1
9		Connector Assembly (Air Restriction Sensor)	1
9	1465469	Connector	1
9	1323578	Terminal	2
9	1402888	Seal	2
10		Connector Assembly (Air Restriction Sensor Cap)	1
10	1465468	Connector	1
10	1327164	Seal	2

WIRE HARNESS (FIGURE 4-44) COWL WITH MONOTROL PEDAL — WITH HYDRAULIC PUMP SOLENOID



BP080757

WIRE HARNESS

COWL WITH MONOTROL PEDAL – WITH HYDRAULIC PUMP SOLENOID

ITEM	PART NO.	DESCRIPTION	QTY
	2104701	Wire Harness	1
	4603281	Wire Harness (Alternate Part)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525568	Connector	1
1	1529046	Connector	1
1	1463139	Terminal	12
2	1540388	Conduit	AR
3	1534282	Clip	1
4		Connector Assembly (Hydraulic Lockout Solenoid 2)	1
4	1484557	Connector	1
4	1484558	Connector	1
4	1463139	Terminal	2
5	275493	Conduit	AR
6		Connector Assembly	1
6	1484557	Connector	1
6	1484558	Connector	1
6	1463139	Terminal	2
7		Connector Assembly	1
7	1525584	Connector	1
7	1532571	Terminal	6
8	1509888	Clip	4
9		Connector Assembly (To Monotrol Harness)	1
9	1489656	Connector (4-Way)	1
9	1489657	Connector	1
9	1330438	Terminal (Socket)	4
10	275496	Conduit	AR
11	1534828	Clip	1
12		Connector Assembly (Endcap)	1
12	1525573	Connector	1
13		Connector Assembly (Brake Fluid)	1
13	1324310	Terminal	1
13	1324309	Sleeve	1
14		Connector Assembly (Brake Fluid)	1
14	1324310	Terminal	1
14	1324309	Sleeve	1
15		Connector Assembly (Park Brake)	1
15	1484397	Connector (3-Way)	1
15	1463194	Connector	1
15	1330438	Terminal (Socket)	3
15	1700460	Connector (Alternate Part)	1
15	1700461	Terminal (Alternate Part)	3
16	1402816	Clip	1
17	275493	Conduit	AR
18		Connector Assembly (Brake Pressure)	1
18	1603021	Connector	1
18	1603236	Connector (Secondary Lock)	1
18	1548517	Terminal (Socket)	3
18	1548519	Seal	3
19		Connector Assembly (Brake Pressure)	1
19	1484397	Connector (3-Way)	1

WIRE HARNESS

COWL WITH MONOTROL PEDAL – WITH HYDRAULIC PUMP SOLENOID

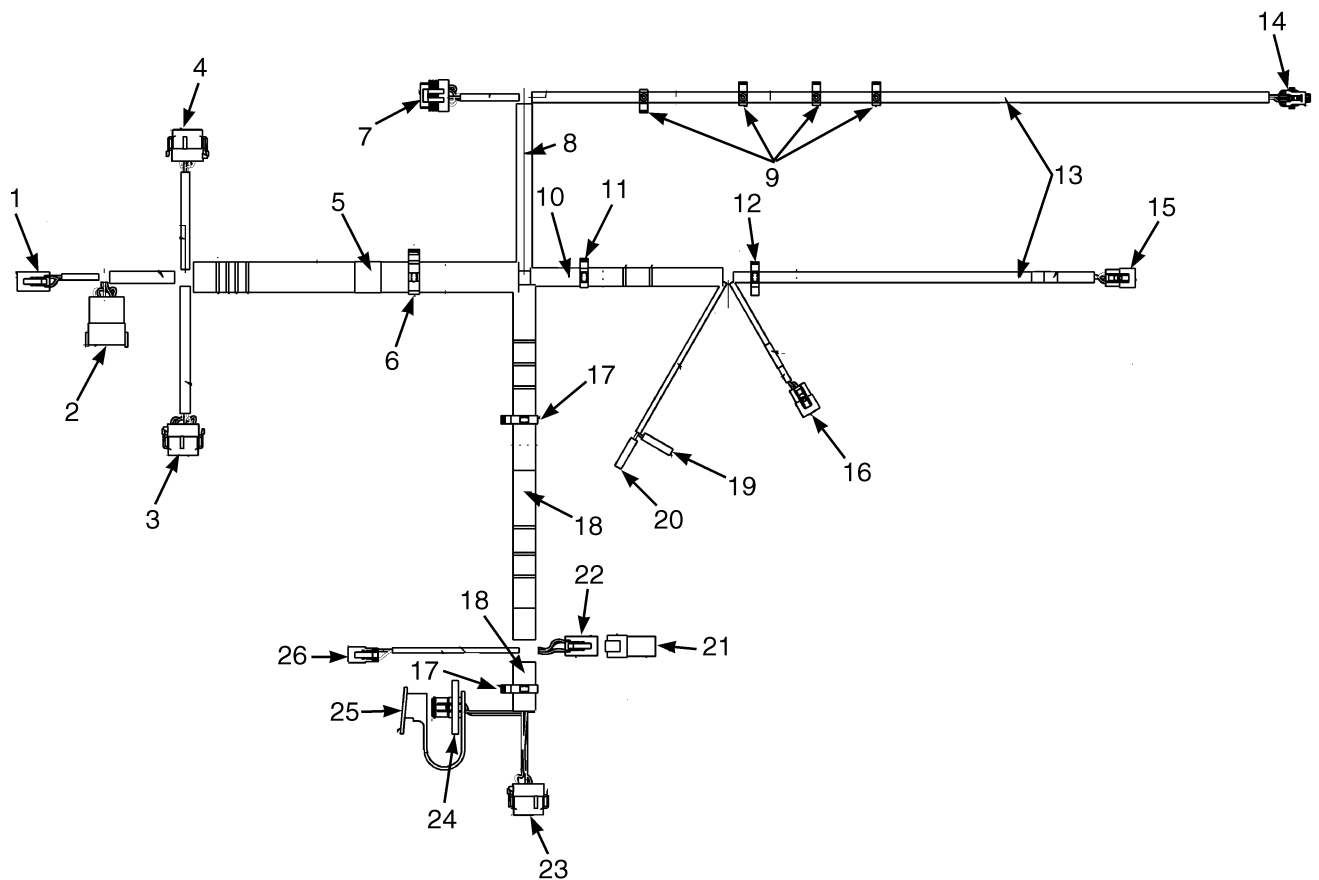
ITEM	PART NO.	DESCRIPTION	QTY
19	1463194	Connector	1
19	1330438	Terminal (Socket)	3
19	1700460	Connector (Alternate Part)	1
19	1700461	Terminal (Alternate Part)	3
20	1500899	Clip	2
21	275497	Conduit	AR
22		Connector Assembly (Endcap with Resistor)	1
22	1525577	Connector (With Resistor)	1
23		Connector Assembly (Bus Terminal 1)	1
23	1489656	Connector (4-Way)	1
23	1489657	Connector	1
23	1330438	Terminal (Socket)	4
24		Connector Assembly (Display)	1
24	1525567	Connector	1
24	1529046	Connector	1
24	1463139	Terminal	5
24	1484377	Plug	7
25		Connector Assembly (J1939 Diagnostic)	1
25	1566116	Connector	1
25	1532664	Connector	1
25	1330438	Terminal (Socket)	3
26	1566117	Dust Cap	1
27		Connector Assembly (Horn Button)	1
27	1490242	Connector	1
27	1490243	Connector	1
27	1330438	Terminal (Socket)	2
28		Connector Assembly (Vehicle System Manager)	1
28	1525570	Connector	1
28	1529046	Connector	1
28	1463139	Terminal	7
28	1484377	Plug	5
29		Connector Assembly (To RH Chassis Harness)	1
29	1500925	Connector	1
29	1352603	Connector	1
29	1330437	Terminal (Pin)	7
29	1484377	Plug	5
30		Connector Assembly (To RH Chassis Harness)	1
30	1489656	Connector (4-Way)	1
30	1489657	Connector	1
30	1330438	Terminal (Socket)	4

NOTES

[illegible]

WIRE HARNESS (COWL) (FIGURE 4-45)

WITH FORWARD AND REVERSE LEVER — WITH HYDRAULIC PUMP SOLENOID, WITHOUT LOCKOUT



BP080759

WIRE HARNESS (COWL)**WITH FORWARD AND REVERSE LEVER – WITH HYDRAULIC PUMP SOLENOID, WITHOUT LOCKOUT**

ITEM	PART NO.	DESCRIPTION	QTY
	2098012	Wire Harness (Cowl with Forward/Reverse Lever)	1
1		Connector Assembly (To RH Chassis Harness)	1
1	1489656	Connector (4-Way)	1
1	1489657	Connector	1
1	1330438	Terminal (Socket)	4
2		Connector Assembly (To RH Chassis Harness)	1
2	1500925	Connector	1
2	1352603	Connector	1
2	1330437	Terminal (Pin)	7
2	1484377	Plug	5
3		Connector Assembly (Vehicle System Manager)	1
3	1525570	Connector	1
3	1529046	Connector	1
3	1463139	Terminal	7
3	1484377	Plug	5
4		Connector Assembly (Vehicle System Manager)	1
4	1525568	Connector	1
4	1529046	Connector	1
4	1463139	Terminal	7
4	1484377	Plug	5
5	1540388	Conduit	AR
6	1534282	Clip	1
7		Connector Assembly (Accelerator Pedal Sensor)	1
7	1525584	Connector	1
7	1532571	Terminal	6
8	275495	Conduit	AR
9	1509888	Clip	4
10	275496	Conduit	AR
11	1534828	Clip	1
12	1402816	Clip	1
13	275493	Conduit	AR
14		Connector Assembly (Brake Pressure)	1
14	1603021	Connector	1
14	1603236	Connector (Secondary Lock)	1
14	1548517	Terminal (Socket)	3
14	1548519	Seal	3
15		Connector Assembly (Brake Pedal)	1
15	1484397	Connector (3-Way)	1
15	1463194	Connector	1
15	1330438	Terminal (Socket)	3
16		Connector Assembly (Park Brake)	1
16	1484397	Connector (3-Way)	1
16	1463194	Connector	1
16	1330438	Terminal (Socket)	3
17	1500899	Clip	2
18	275497	Conduit	AR
19		Connector Assembly (Brake Fluid)	1
19	1324309	Sleeve	1
19	1324310	Terminal	1
20		Connector Assembly (Brake Fluid)	1

WIRE HARNESS (COWL)**WITH FORWARD AND REVERSE LEVER – WITH HYDRAULIC PUMP SOLENOID, WITHOUT LOCKOUT**

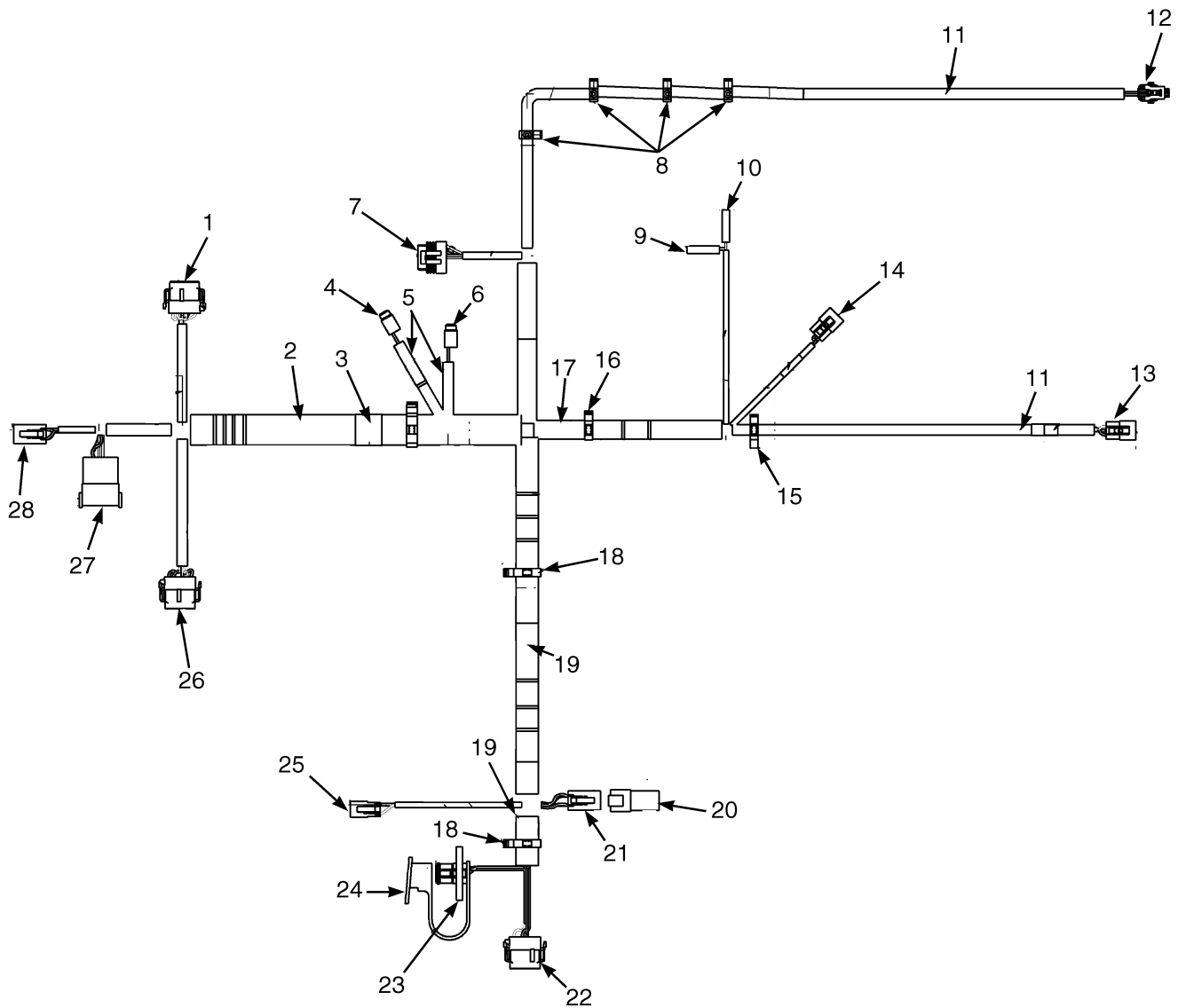
ITEM	PART NO.	DESCRIPTION	QTY
20	1324309	Sleeve	1
20	1324310	Terminal	1
21		Connector Assembly (Endcap With Resistor)	1
21	1525577	Connector (With Resistor)	1
22		Connector Assembly (Connector)	1
22	1489656	Connector (4-Way)	1
22	1489657	Connector	1
22	1330438	Terminal (Socket)	4
23		Connector Assembly (Display)	1
23	1525567	Connector	1
23	1529046	Connector	1
23	1463139	Terminal	5
23	1484377	Plug	7
24		Connector Assembly (J1939 Diagnostic)	1
24	1566116	Connector	1
24	1532664	Connector	1
24	1330438	Terminal (Socket)	3
25	1566117	Dust Cap	1
26		Connector Assembly (Horn Button)	1
26	1490242	Connector	1
26	1490243	Connector	1
26	1330438	Terminal (Socket)	2

NOTES

[illegible]

WIRE HARNESS (COWL) (FIGURE 4-46)

WITH FORWARD AND REVERSE LEVER — WITH HYDRAULIC PUMP SOLENOID, WITH LOCKOUT



BP080755

WIRE HARNESS (COWL)
WITH FORWARD AND REVERSE LEVER – WITH HYDRAULIC PUMP SOLENOID, WITH LOCKOUT

ITEM	PART NO.	DESCRIPTION	QTY
	2104702	Wire Harness	1
	4603282	Wire Harness (Alternate Part)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525568	Connector	1
1	1529046	Connector	1
1	1463139	Terminal	8
1	1484377	Plug	4
2	1540388	Conduit	AR
3	1534282	Clip	1
4		Connector Assembly (Hydraulic Lockout Solenoid 2)	1
4	1484557	Connector	1
4	1484558	Connector	1
4	1463139	Terminal	2
5	275493	Conduit	AR
6		Connector Assembly (Hydraulic Lockout Solenoid 1)	1
6	1484557	Connector	1
6	1484558	Connector	1
6	1463139	Terminal	2
7		Connector Assembly (Accelerator Pedal)	1
7	1525584	Connector	1
7	1532571	Terminal	6
8	1509888	Clip	4
9		Connector Assembly (Brake Fluid)	1
9	1566227	Terminal	1
9	1324309	Sleeve	1
10		Connector Assembly (Brake Fluid)	1
10	1566227	Terminal	1
10	1324309	Sleeve	1
11	275493	Conduit	AR
12		Connector Assembly (Brake Pressure)	1
12	1603021	Connector	1
12	1603236	Connector (Secondary Lock)	1
12	1548517	Terminal (Socket)	3
12	1548519	Seal	3
13		Connector Assembly (Brake Pedal)	1
13	1484397	Connector (3-Way)	1
13	1463194	Connector	1
13	1330437	Terminal (Pin)	3
13	1700460	Connector (Alternate Part)	1
13	1700461	Terminal (Alternate Part)	3
14		Connector Assembly (Park Brake)	1
14	1484397	Connector (3-Way)	1
14	1463194	Connector	1
14	1330438	Terminal (Socket)	3
14	1700460	Connector (Alternate Part)	1
14	1700461	Terminal (Alternate Part)	3
15	1402816	Clip	1
16	1534828	Clip	1
17	275496	Conduit	AR
18	1500899	Clip	2

WIRE HARNESS (COWL)

WITH FORWARD AND REVERSE LEVER – WITH HYDRAULIC PUMP SOLENOID, WITH LOCKOUT

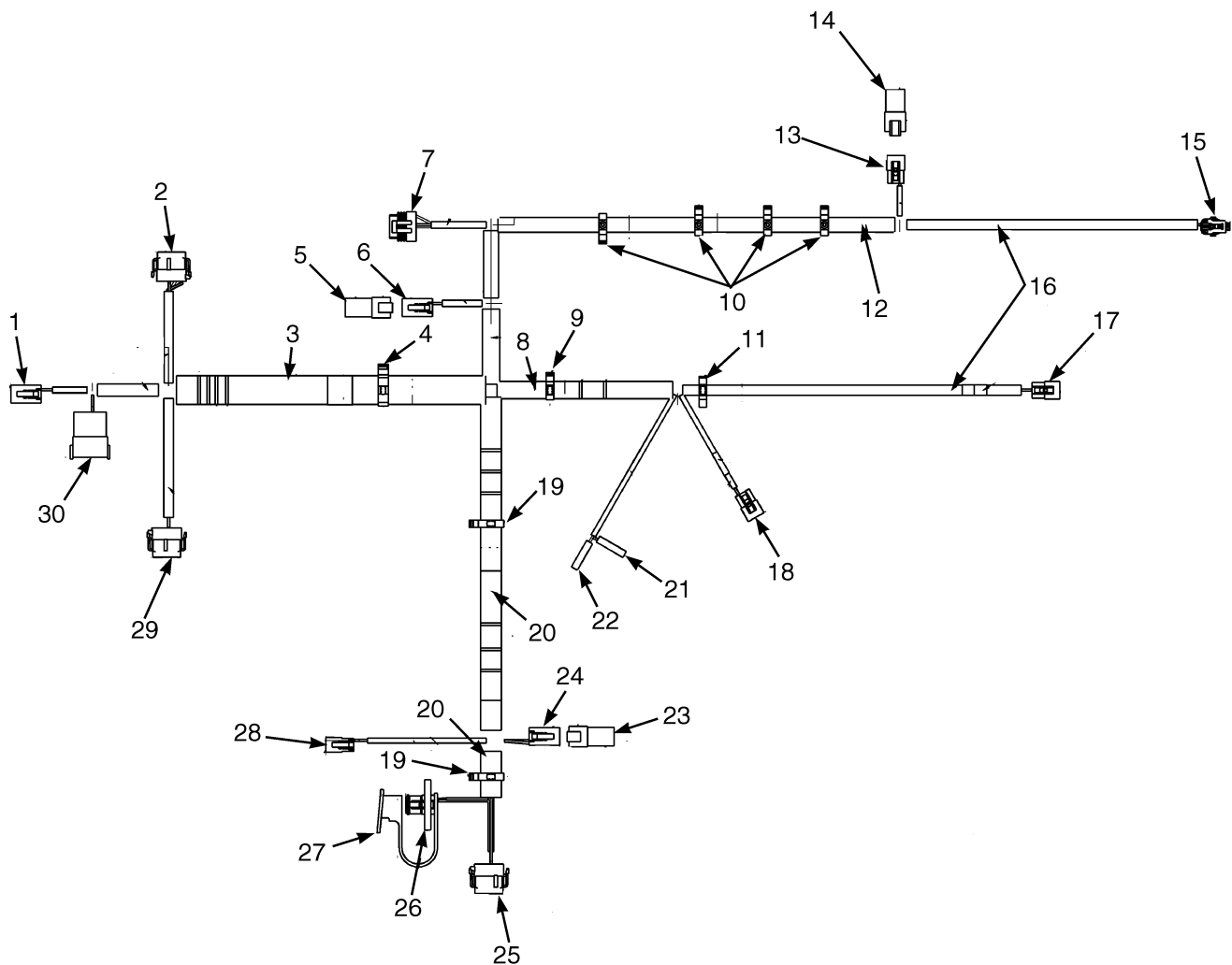
ITEM	PART NO.	DESCRIPTION	QTY
19	275497	Conduit	AR
20		Connector Assembly (Endcap With Resistor)	1
20	1525577	Connector (With Resistor)	1
21		Connector Assembly (Bus Terminal 1)	1
21	1489656	Connector (4-Way)	1
21	1489657	Connector	1
21	1330438	Terminal (Socket)	4
22		Connector Assembly (Display)	1
22	1525567	Connector	1
22	1529046	Connector	1
22	1463139	Terminal	5
22	1484377	Plug	7
23		Connector Assembly (J1939 Diagnostic)	1
23	1566116	Connector	1
23	1532664	Connector	1
23	1330438	Terminal (Socket)	3
24	1566117	Dust Cap	1
25		Connector Assembly (Horn Button)	1
25	1490242	Connector	1
25	1490243	Connector	1
25	1330438	Terminal (Socket)	2
26		Connector Assembly (Vehicle System Manager)	1
26	1525570	Connector	1
26	1529046	Connector	1
26	1463139	Terminal	7
26	1484377	Plug	5
27		Connector Assembly (To RH Chassis Harness)	1
27	1500925	Connector	1
27	1352603	Connector	1
27	1330437	Terminal (Pin)	7
27	1484377	Plug	5
28		Connector Assembly (To RH Chassis Harness)	1
28	1489656	Connector (4-Way)	1
28	1489657	Connector	1
28	1330438	Terminal (Socket)	4

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-47)

COWL WITH MONOTROL PEDAL — WITH RETURN TO SET TILT / WITH HYDRAULIC PUMP SOLENOID



BP080758

WIRE HARNESS**COWL WITH MONOTROL PEDAL – WITH RETURN TO SET TILT / WITH HYDRAULIC PUMP SOLENOID**

ITEM	PART NO.	DESCRIPTION	QTY
	2098011	Wire Harness	1
1		Connector Assembly (To RH Chassis Harness)	1
1	1489656	Connector (4-Way)	1
1	1489657	Connector	1
1	1330438	Terminal (Socket)	4
2		Connector Assembly (Vehicle System Manager)	1
2	1525568	Connector	1
2	1529046	Connector	1
2	1463139	Terminal	11
2	1484377	Plug	1
3	1540388	Conduit	AR
4	1534282	Clip	1
5		Connector Assembly (Endcap)	1
5	1525573	Connector	1
6		Connector Assembly (To Monotrol Harness)	1
6	1489656	Connector (4-Way)	1
6	1489657	Connector	1
6	1330438	Terminal (Socket)	4
7		Connector Assembly (Accelerator Pedal Sensor)	1
7	1525584	Connector	1
7	1532571	Terminal	6
8	275496	Conduit	AR
9	1534828	Clip	1
10	1509890	Clip	4
11	1402816	Clip	1
12	275495	Conduit	AR
13		Connector Assembly (To Mast Harness)	1
13	1484397	Connector (3-Way)	1
13	1463194	Connector	1
13	1330438	Terminal (Socket)	3
14		Connector Assembly (Endcap)	1
14	1351682	Connector (End Cap)	1
15		Connector Assembly (Brake Pressure)	1
15	1603021	Connector	1
15	1603236	Connector (Secondary Lock)	1
15	1548517	Terminal (Socket)	3
15	1548519	Seal	3
16	275493	Conduit	AR
17		Connector Assembly (Brake Pedal)	1
17	1484397	Connector (3-Way)	1
17	1463194	Connector	1
17	1330438	Terminal (Socket)	1
18		Connector Assembly (Park Brake)	1
18	1484397	Connector (3-Way)	1
18	1463194	Connector	1
18	1330438	Terminal (Socket)	3
19	1500899	Clip	2
20	275497	Conduit	AR
21		Connector Assembly (Brake Fluid)	1
21	1324309	Sleeve	1

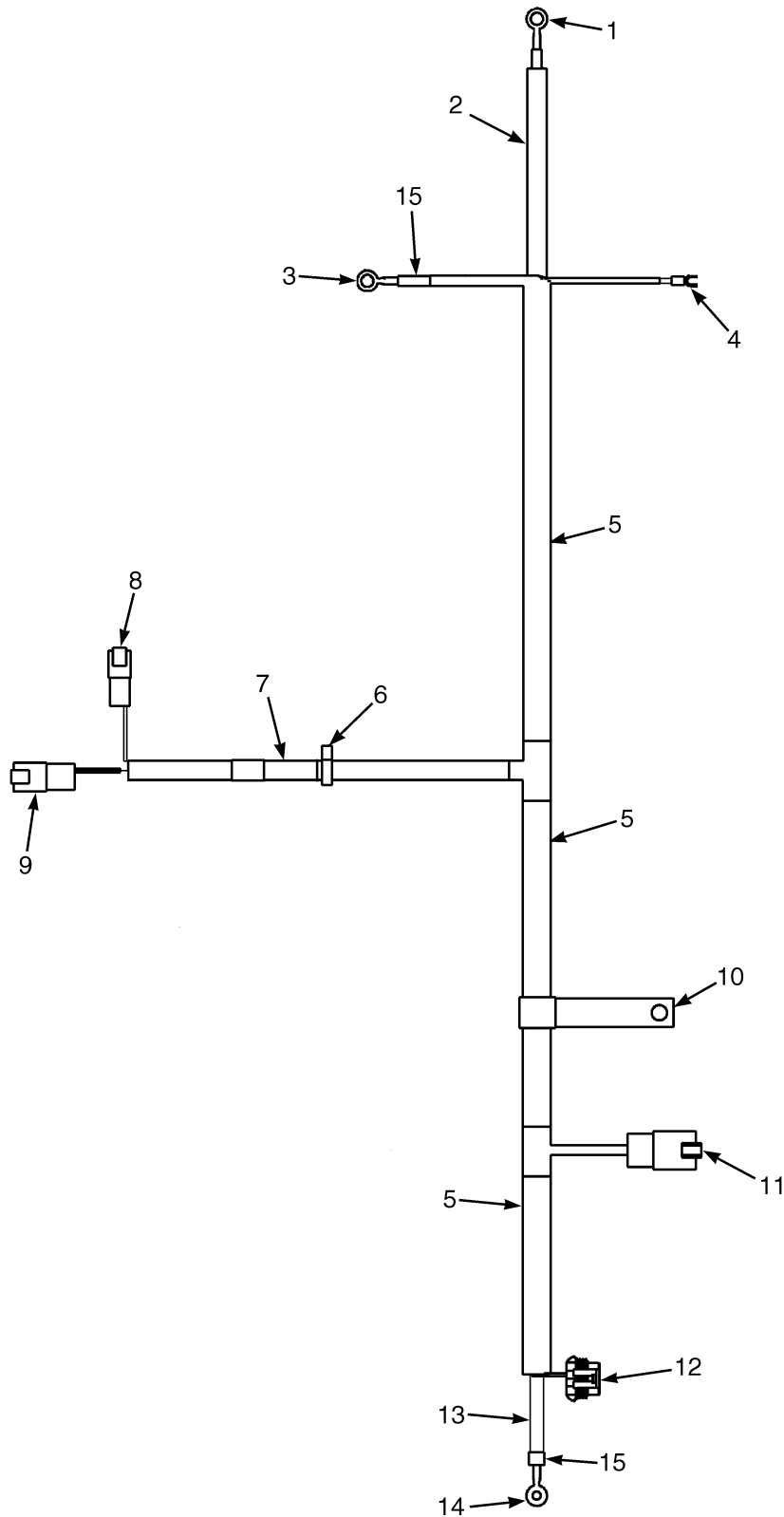
WIRE HARNESS**COWL WITH MONOTROL PEDAL – WITH RETURN TO SET TILT / WITH HYDRAULIC PUMP SOLENOID**

ITEM	PART NO.	DESCRIPTION	QTY
21	1324310	Terminal	1
22		Connector Assembly (Brake Fluid)	1
22	1324309	Sleeve	1
22	1324310	Terminal	1
23		Connector Assembly (Endcap With Resistor)	1
23	1525577	Connector (With Resistor)	1
24		Connector Assembly (Bus Terminal 1)	1
24	1489656	Connector (4-Way)	1
24	1489657	Connector	1
24	1330438	Terminal (Socket)	4
25		Connector Assembly (Display)	1
25	1525567	Connector	1
25	1529046	Connector	1
25	1463139	Terminal	5
25	1484377	Plug	7
26		Connector Assembly (J1939 Diagnostic)	1
26	1566116	Connector	1
26	1529046	Connector	1
26	1330438	Terminal (Socket)	1
27	1566117	Dust Cap	1
28		Connector Assembly (Horn Button)	1
28	1490242	Connector	1
28	1490243	Connector	1
28	1330438	Terminal (Socket)	2
29		Connector Assembly (Vehicle System Manager)	1
29	1525570	Connector	1
29	1529046	Connector	1
29	1463139	Terminal	7
29	1484377	Plug	5
30		Connector Assembly (To RH Chassis Harness)	1
30	1500925	Connector	1
30	1352603	Connector	1
30	1330437	Terminal (Pin)	10
30	1484377	Plug	2

NOTES

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WIRE HARNESS (FIGURE 4-48) ALTERNATOR — CUMMINS QSB 3.3L DIESEL

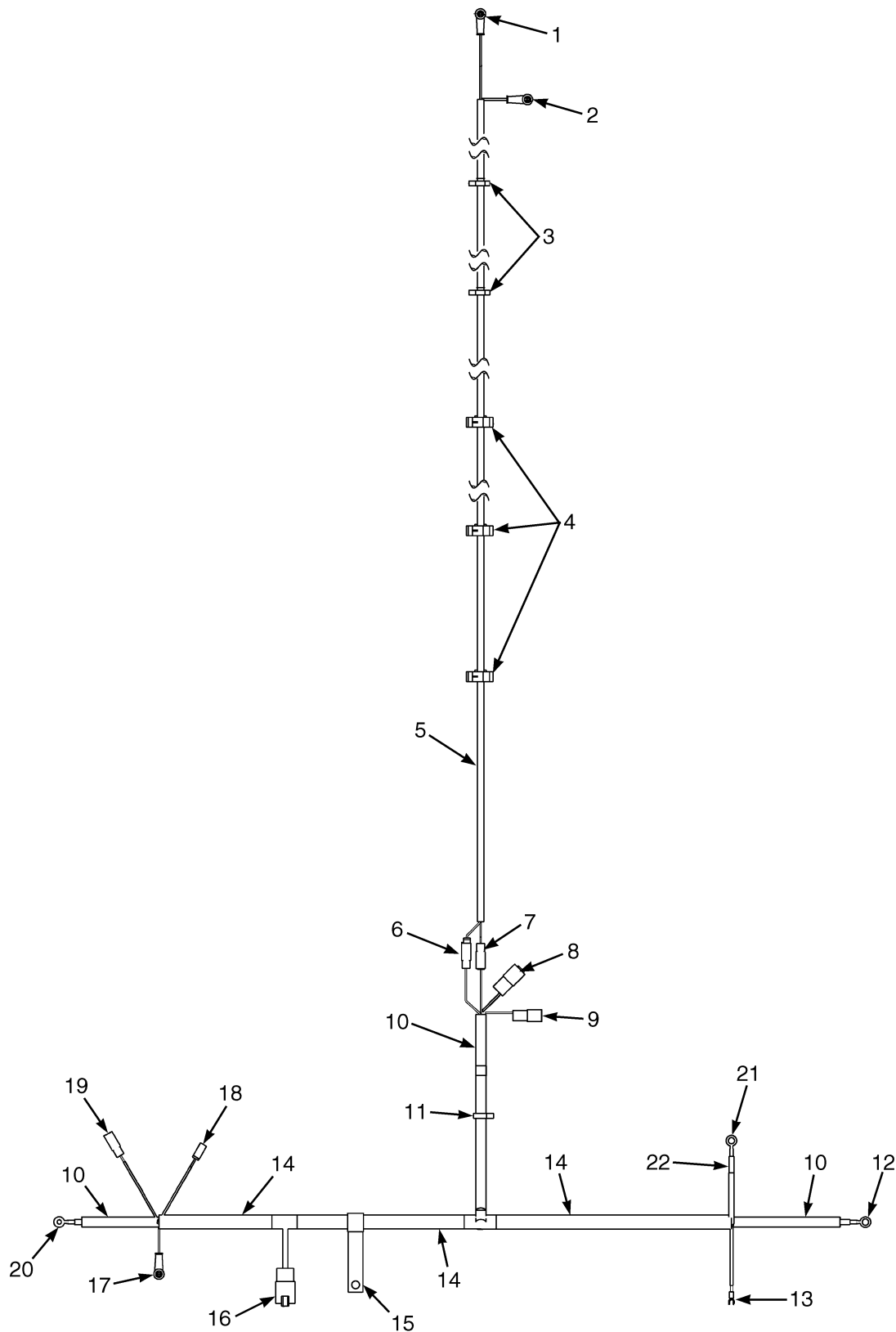


BP080769

WIRE HARNESS **ALTERNATOR – CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2103459	Wire Harness (Alternator)	1
	2110986	Wire Harness (Alternate Part)	1
1		Connector Assembly (Starter Negative Stud)	1
1	806427	E-Ring	1
2	275495	Conduit	AR
3		Connector Assembly (Starter Positive Stud)	1
3	806427	E-Ring	1
4		Connector Assembly (Starter Solenoid)	1
4	148638	E Ftg Spade Term #10	1
5	275497	Conduit	AR
6	1402815	Clip	1
7	275495	Conduit	1
8		Connector Assembly (To Right Hand Chassis Harness)	1
8	1493465	Connector	1
8	1330414	Connector (Secondary Lock)	1
8	1330437	Terminal (Pin)	1
8	1484377	Plug	1
9		Connector Assembly (To Right Hand Chassis Harness)	1
9	1480187	Connector	1
9	1480188	Connector	1
9	866401	Terminal	2
10	1364263	Clamp	1
11		Connector Assembly (Alternator Fuse)	1
11	1544731	Receptacle	1
11	1544733	Pin	1
12		Connector Assembly (Alternator)	1
12	1501919	Connector	1
12	1482663	Connector	1
12	1330355	Terminal	2
12	1482668	Plug	2
12	1330356	Seal	2
13	1673486	Sleeve	AR
14		Connector Assembly (Alternator Ground)	1
14	806425	E-Ring	1
15	133483	Heat Shrink	AR

WIRE HARNESS (FIGURE 4-49) SEALED ALTERNATOR — CUMMINS QSB 3.3L DIESEL



BP080768

WIRE HARNESS
SEALED ALTERNATOR – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2103830	Wire Harness (Sealed Alternator)	1
	2110989	Wire Harness (Alternate Part)	1
1		Connector Assembly (Disconnect Switch)	1
1	1582218	E-Ring	1
1	190383	Boot	1
1	175944	Heat Shrink	AR
2		Connector Assembly (Disconnect Switch)	1
2	1582218	E-Ring	1
2	190383	Boot	1
2	175944	Heat Shrink	AR
3	1402816	Clip	2
4	1579403	Clip	3
5	275493	Conduit	AR
6		Connector Assembly (Disconnect Switch Link)	1
6	181046	Connector Body	1
6	181045	Connector Body	1
6	1561117	Terminal	1
6	134810	Terminal	1
7		Connector Assembly (Disconnect Switch Link)	1
7	181045	Connector Body	1
7	181046	Connector Body	1
7	1561117	Terminal	1
7	134810	Terminal	1
8		Connector Assembly (To Right Hand Chassis Harness)	1
8	1480187	Connector	1
8	1480188	Connector	1
8	866401	Terminal	2
9		Connector Assembly (To Right Hand Chassis Harness)	1
9	1493465	Connector	1
9	1330414	Connector (Secondary Lock)	1
9	1330437	Terminal (Pin)	1
9	1484377	Plug	1
10	275495	Conduit	AR
11	1402815	Clip	1
12		Connector Assembly (Starter Negative Stud)	1
12	806427	E-Ring	1
13		Connector Assembly (Starter Solenoid)	1
13	148638	E Ftg Spade Term #10	1
14	275497	Conduit	AR
15	1364263	Clamp	1
16		Connector Assembly (Alternator Fuse)	1
16	1544731	Receptacle	1
16	1544733	Pin	1
17		Connector Assembly (Alternator D +)	1
17	1582218	E-Ring	1
17	190383	Boot	1
17	175944	Heat Shrink	AR
18		Connector Assembly (Alternator Excite)	1
18	181045	Connector Body	1
18	134810	Terminal	1

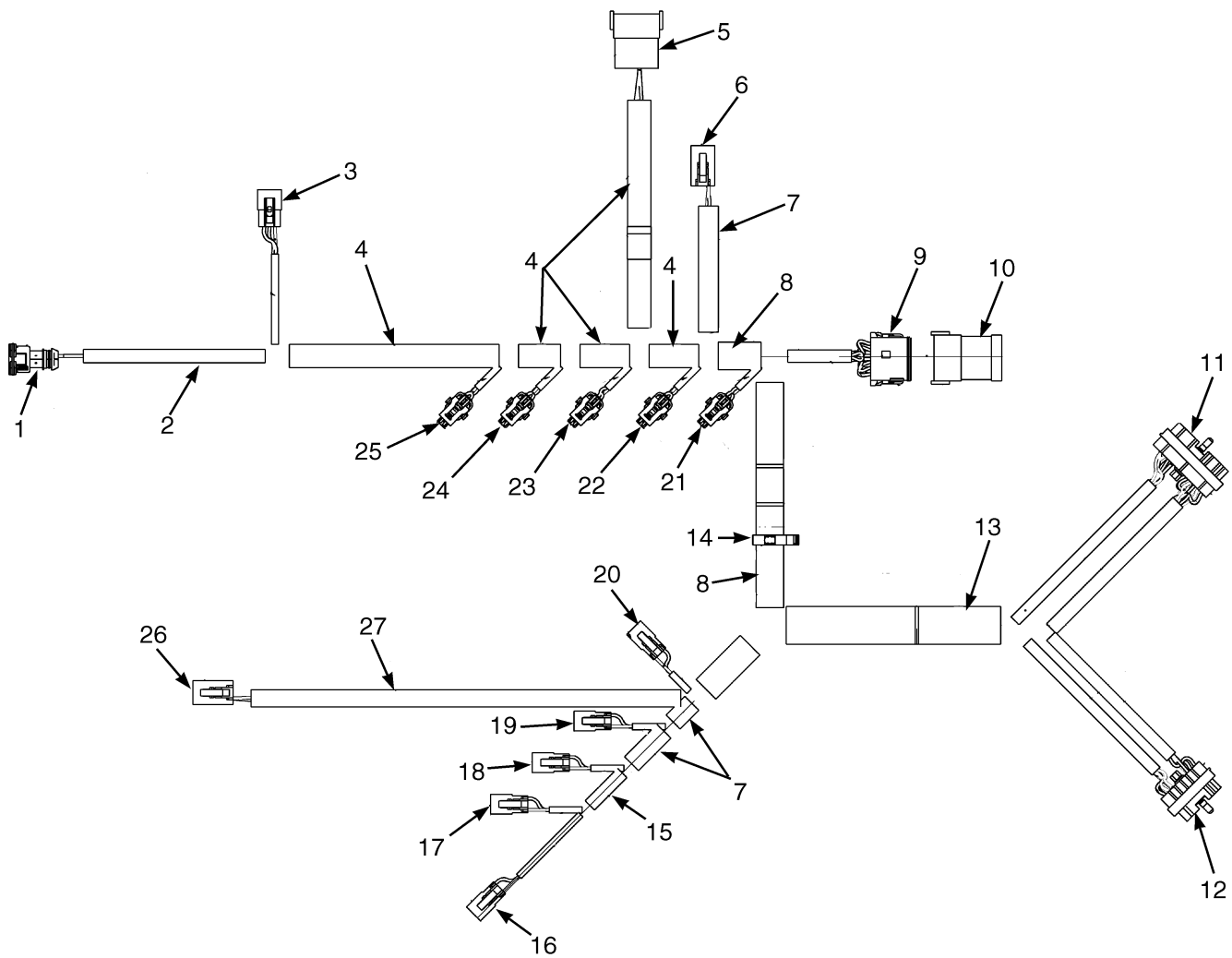
WIRE HARNESS SEALED ALTERNATOR – CUMMINS QSB 3.3L DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
19		Connector Assembly (Alternator Field)	1
19	181045	Connector Body	1
19	134810	Terminal	1
20		Connector Assembly (Alternator Ground)	1
20	806425	E-Ring	1
21		Connector Assembly (Starter Positive Stud)	1
21	806427	E-Ring	1
22	133483	Heat Shrink	AR

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-50) TRANSMISSION — THREE SPEED



BP080766

**WIRE HARNESS
TRANSMISSION – THREE SPEED**

ITEM	PART NO.	DESCRIPTION	QTY
	2106248	Wire Harness (Transmission, Three Speed)	1
1		Connector Assembly (Sump Temperature)	1
1	1493435	Connector (2-Way)	1
1	1402814	Terminal	2
1	1562649	Seal	2
2	275493	Conduit	AR
3		Connector Assembly (Intermediate Speed)	1
3	1484397	Connector (3-Way)	1
3	1463194	Connector	1
3	1330438	Terminal (Socket)	3
4	275496	Conduit	AR
5		Connector Assembly (To Right Hand Chassis Harness)	1
5	1623280	Connector	1
5	1623281	Connector	1
5	1484377	Plug	6
5	1463138	Terminal	6
6		Connector Assembly (Turbine Shaft RPM)	1
6	1493430	Connector	1
6	1529052	Connector	1
6	1330438	Terminal (Socket)	5
6	1484377	Plug	1
7	275495	Conduit	AR
8	275497	Conduit	AR
9		Connector Assembly (Bus Bar)	1
9	1525564	Connector	1
9	1500913	Connector	1
9	1330438	Terminal (Socket)	12
10		Connector Assembly (Bus Bar)	1
10	1602430	Connector	1
11		Connector Assembly (APC214-CRP129)	1
11	1602432	Connector	1
11	1323581	Plug	10
11	1532571	Terminal	20
12		Connector Assembly (APC-CRP129)	1
12	1602433	Connector	1
12	1323581	Plug	4
12	1532571	Terminal	14
13	1540388	Conduit	AR
14	1500899	Clip	1
15	275493	Conduit	AR
16		Connector Assembly (Forward One Solenoid)	1
16	1490242	Connector	1
16	1490243	Connector	1
16	1330438	Terminal (Socket)	2
17		Connector Assembly (Range Two Solenoid)	1
17	1490242	Connector	1
17	1490243	Connector	1
17	1330438	Terminal (Socket)	2
18		Connector Assembly (Forward Two Solenoid)	1
18	1490242	Connector	1

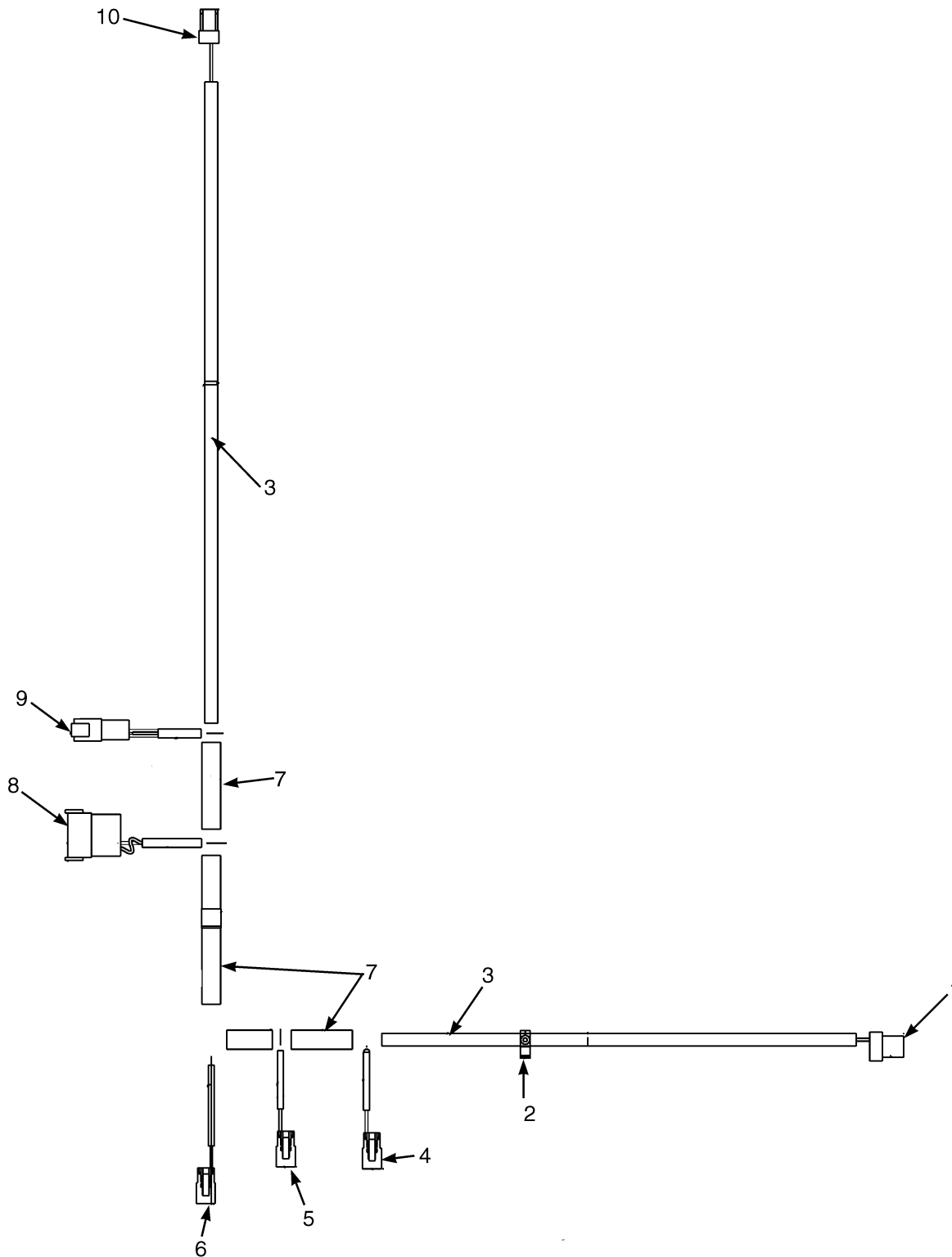
WIRE HARNESS TRANSMISSION – THREE SPEED

ITEM	PART NO.	DESCRIPTION	QTY
18	1490243	Connector	1
18	1330438	Terminal (Socket)	2
19		Connector Assembly (Range One Solenoid)	1
19	1490242	Connector	1
19	1490243	Connector	1
19	1330438	Terminal (Socket)	1
20		Connector Assembly (Reverse One Solenoid)	1
20	1490242	Connector	1
20	1490243	Connector	1
20	1330438	Terminal (Socket)	1
21		Connector Assembly (Reverse One Pressure)	1
21	1603021	Connector	1
21	1603236	Connector (Secondary Lock)	1
21	1548517	Terminal (Socket)	3
21	1548519	Seal	3
22		Connector Assembly (Range One Pressure)	1
22	1603021	Connector	1
22	1603236	Connector (Secondary Lock)	1
22	1548517	Terminal (Socket)	3
22	1548519	Seal	3
23		Connector Assembly (Forward Two Pressure)	1
23	1603021	Connector	1
23	1603236	Connector (Secondary Lock)	1
23	1548517	Terminal (Socket)	3
23	1548519	Seal	3
24		Connector Assembly (Range Two Pressure)	1
24	1603021	Connector	1
24	1603236	Connector (Secondary Lock)	1
24	1548517	Terminal (Socket)	3
24	1548519	Seal	3
25		Connector Assembly (Forward One Pressure)	1
25	1603021	Connector	1
25	1603236	Connector (Secondary Lock)	1
25	1548517	Terminal (Socket)	3
25	1548519	Seal	3
26		Connector Assembly (Tail Shaft RPM)	1
26	1493430	Connector	1
26	1529052	Connector	1
26	1330438	Terminal (Socket)	5
26	1484377	Plug	1
27	275494	Conduit	AR

NOTES

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WIRE HARNESS (FIGURE 4-51) TRANSMISSION — TWO SPEED

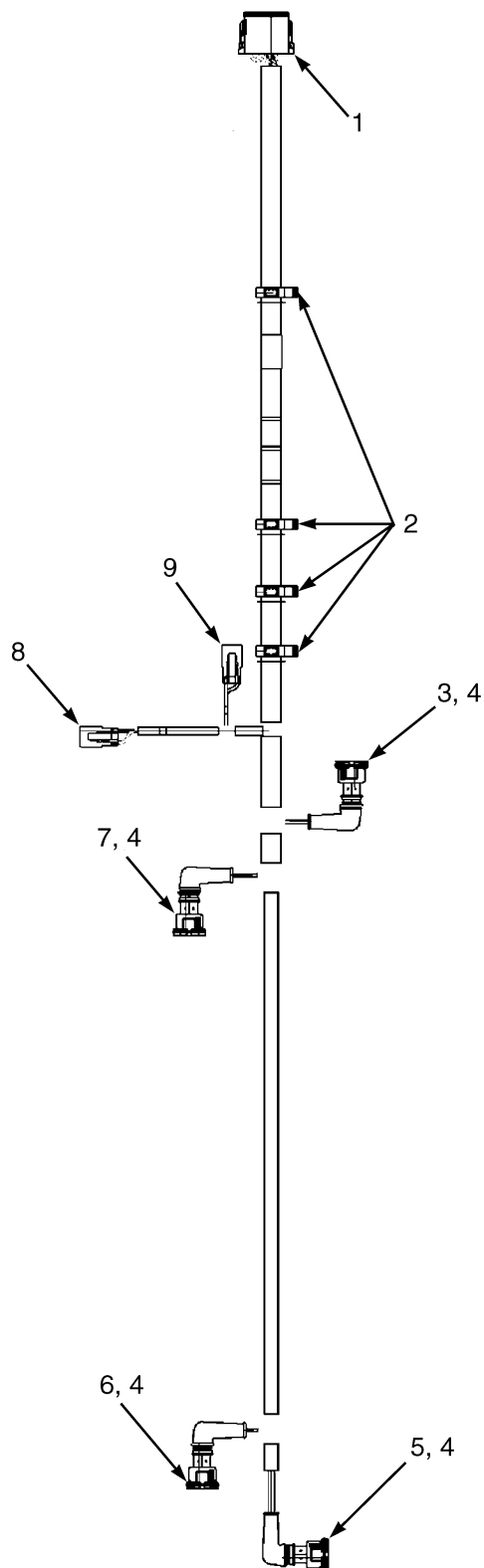


BP080765

**WIRE HARNESS
TRANSMISSION – TWO SPEED**

ITEM	PART NO.	DESCRIPTION	QTY
	2106249	Wire Harness (Transmission)	1
1		Connector Assembly (Output Speed)	1
1	1558156	Connector	1
1	1323576	Terminal	1
2	1509888	Clip	1
3	275493	Conduit	AR
4		Connector Assembly (Reverse 1 Solenoid)	1
4	1490242	Connector	1
4	1490243	Connector	1
4	1330438	Terminal (Socket)	2
5		Connector Assembly (Range 1 Solenoid)	1
5	1490242	Connector	1
5	1490243	Connector	1
5	1330438	Terminal (Socket)	2
6		Connector Assembly (Forward 1 Solenoid)	1
6	1490242	Connector	1
6	1490243	Connector	1
6	1330438	Terminal (Socket)	2
7	275495	Conduit	AR
8		Connector Assembly (To Right Hand Chassis Harness)	1
8	1623280	Connector	1
8	1623281	Connector	1
8	1463138	Terminal	6
8	1484377	Plug	6
9		Connector Assembly (To Right Hand Chassis Harness)	1
9	1530960	Connector	1
9	1530961	Connector	1
9	1463138	Terminal	5
9	1484377	Plug	1

WIRE HARNESS (FIGURE 4-52) ELECTRONIC CONTROL VALVE — THREE FUNCTION



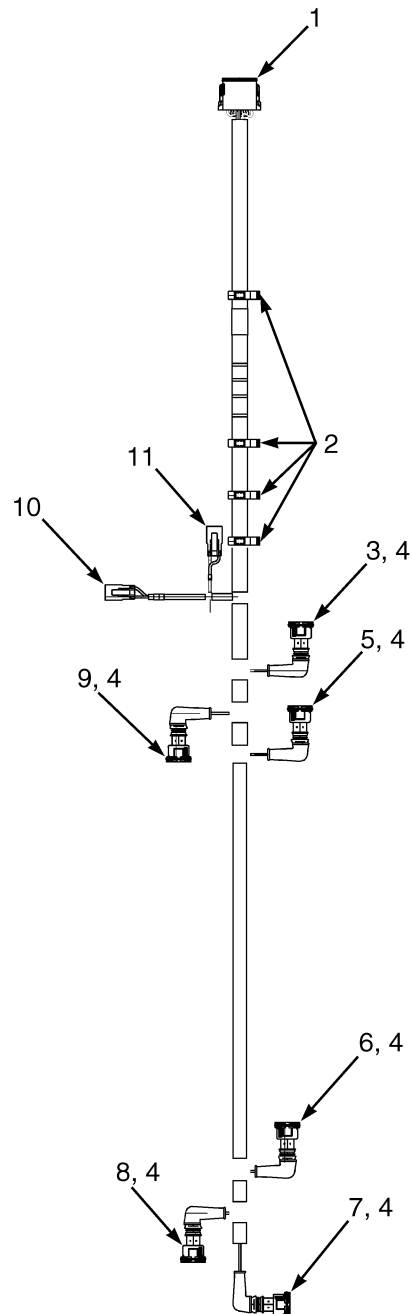
HP081569

WIRE HARNESS

ELECTRONIC CONTROL VALVE – THREE FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	2060198	Wire Harness (Electronic Control Valve)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525564	Connector	1
1	1330438	Terminal (Socket)	9
1	1330439	Plug	3
1	1525564	Connector	1
1	1500913	Connector	1
2	1402815	Clip	4
3		Connector Assembly (2A Tilt)	1
3	1531162	Connector	1
3	1562649	Seal	2
3	1402814	Terminal	2
4	190383	Boot	4
5		Connector Assembly (2B Tilt)	1
5	1531162	Connector	1
5	1562649	Seal	2
5	1402814	Terminal	2
6		Connector Assembly (3B Auxiliary 1)	1
6	1493435	Connector (2-Way)	1
6	1562649	Seal	2
6	1402814	Terminal	2
7		Connector Assembly (3A Auxiliary 1)	1
7	1493435	Connector (2-Way)	1
7	1562649	Seal	2
7	1402814	Terminal	2
8		Connector Assembly (Lift)	1
8	1490242	Connector	1
8	1330438	Terminal (Socket)	2
8	1490243	Connector	1
9		Connector Assembly (Lower)	1
9	1490242	Connector	1
9	1330438	Terminal (Socket)	2
9	1490243	Connector	1

WIRE HARNESS (FIGURE 4-53) ELECTRONIC CONTROL VALVE — FOUR FUNCTION



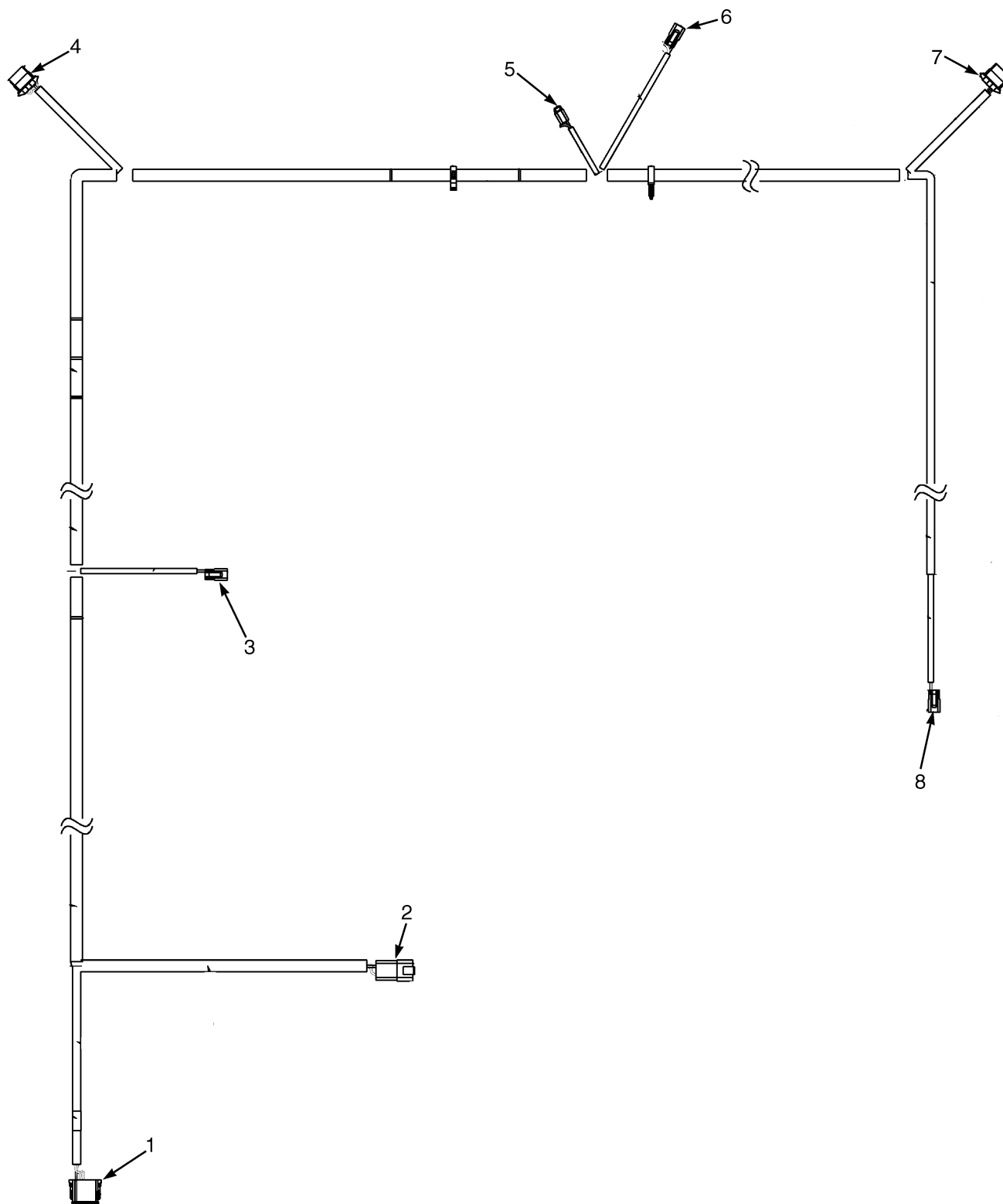
HP081568

WIRE HARNESS

ELECTRONIC CONTROL VALVE – FOUR FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	2058909	Wire Harness (Electronic Control Valve)	1
1		Connector Assembly (Vehicle System Manager)	1
1	1525564	Connector	1
1	1330438	Terminal (Socket)	12
1	1500913	Connector	1
2	1402815	Clip	4
3		Connector Assembly (2A Tilt)	1
3	1531162	Connector	1
3	1562649	Seal	2
3	1402814	Terminal	2
4	190383	Boot	6
5	1493447	Connector (4A Auxiliary 2)	1
5	1562649	Seal	2
5	1402814	Terminal	2
6	1493447	Connector (4B Auxiliary 2)	1
6	1562649	Seal	2
6	1402814	Terminal	2
7		Connector Assembly (2B Tilt)	1
7	1531162	Connector	1
7	1562649	Seal	2
7	1402814	Terminal	2
8		Connector Assembly (3B Auxiliary 1)	1
8	1493435	Connector (2-Way)	1
8	1562649	Seal	2
8	1402814	Terminal	2
9		Connector Assembly (3A Auxiliary 1)	1
9	1493435	Connector (2-Way)	1
9	1562649	Seal	2
9	1402814	Terminal	2
10		Connector Assembly (Lift)	1
10	1490242	Connector	1
10	1330438	Terminal (Socket)	2
10	1490243	Connector	1
11		Connector Assembly (Lower)	1
11	1490242	Connector	1
11	1330438	Terminal (Socket)	2
11	1490243	Connector	1

WIRE HARNESS (FIGURE 4-54) LIGHTS WITH OVERHEAD GUARD

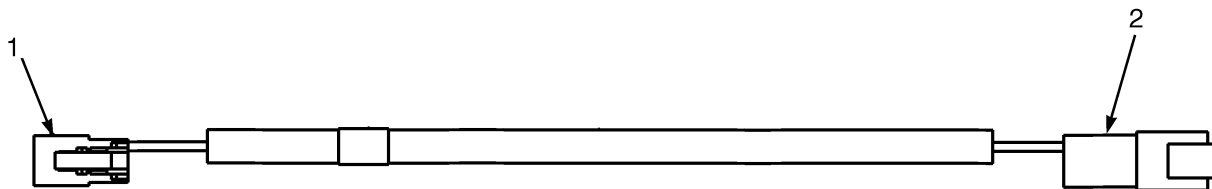


BP080628

**WIRE HARNESS
LIGHTS WITH OVERHEAD GUARD**

ITEM	PART NO.	DESCRIPTION	QTY
	2101861	Wire Harness (Lights)	1
1		Connector Assembly (Harness Attachment)	1
1	1525566	Connector	1
1	1500913	Connector	1
1	1330438	Terminal (Socket)	3
1	1484377	Plug	9
2		Connector Assembly (RH Chassis)	1
2	1514597	Connector	1
2	1514598	Connector	1
2	1484709	Terminal (Pin)	4
3		Connector Assembly (RH Front Work Light)	1
3	1490242	Connector	1
3	1490243	Connector	1
3	1363886	Terminal (Socket)	2
4		Connector Assembly (RH Rear Signal)	1
4	1531486	Connector	1
4	930591	Connector	1
4	1330355	Terminal	4
4	1330356	Seal	1
4	1482668	Plug	2
4	1476108	Wire Seal	3
5		Connector Assembly (Strobe)	1
5	1484557	Connector	1
5	1484558	Connector	1
5	1463139	Terminal	2
6		Connector Assembly (Rear Work Light)	1
6	1490242	Connector	1
6	1490243	Connector	1
6	1363886	Terminal (Socket)	2
7		Connector Assembly (RH Rear Signal)	1
7	1531486	Connector	1
7	930591	Connector	1
7	1330355	Terminal	4
7	1330356	Seal	1
7	1482668	Plug	2
7	1476108	Wire Seal	3
8		Connector Assembly (LH Front Work Light)	1
8	1490242	Connector	1
8	1490243	Connector	1
8	1363886	Terminal (Socket)	2

WIRE HARNESS (FIGURE 4-55) WORK LIGHT JUMPER — WITH TWO STAGE MASTS

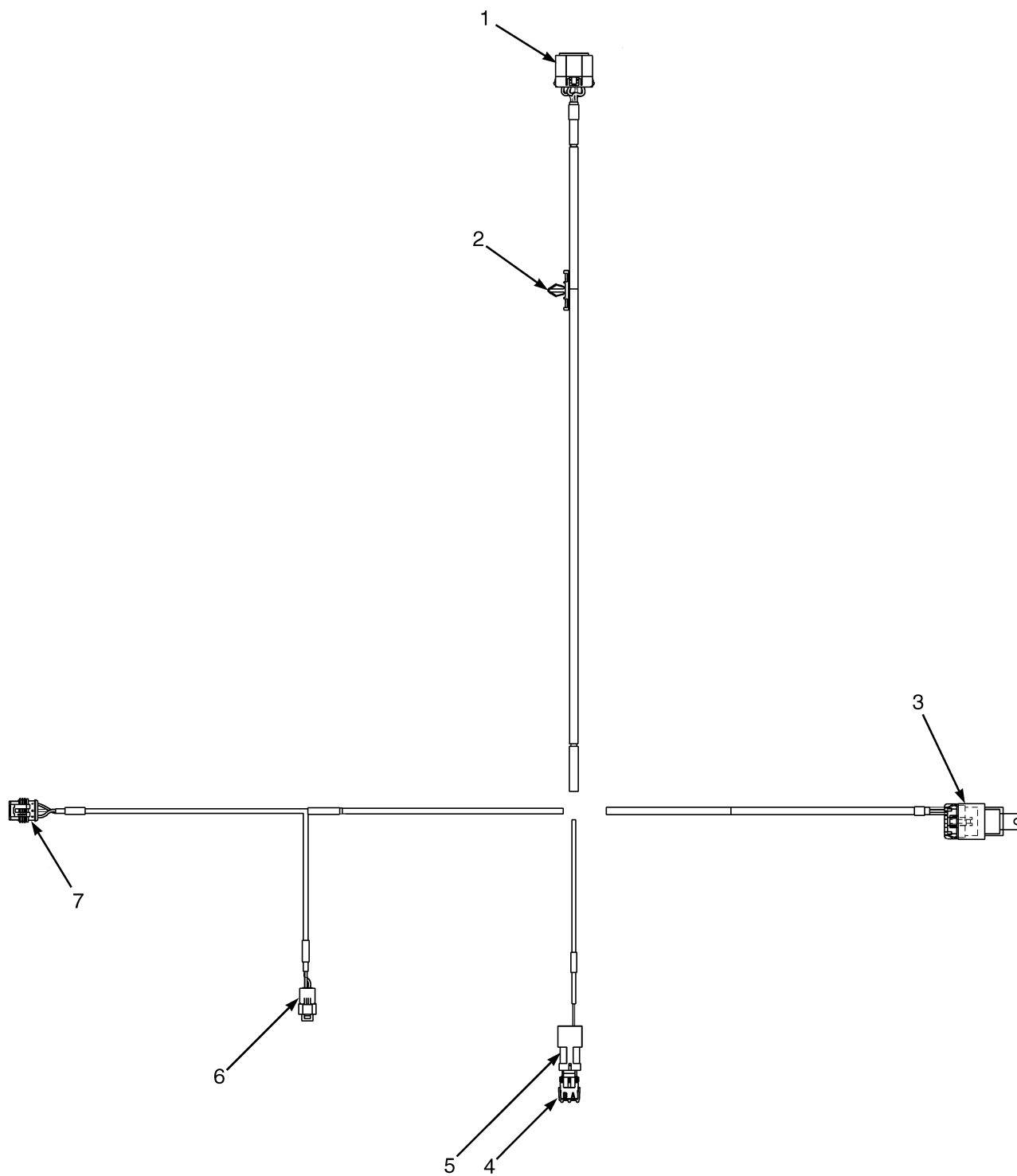


BP080632

ITEM	PART NO.	DESCRIPTION	QTY
	2099263	Wire Harness (Work Light Jumper)	1
1		Connector Assembly (To Work Light)	1
1	1490242	Connector	1
1	1490243	Connector	1
1	1330438	Terminal (Socket)	2
2		Connector Assembly (To Harness)	1
2	1493465	Connector	1
2	1330414	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	2

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-56)
LOW FUEL SENSOR

HP082024

**WIRE HARNESS
LOW FUEL SENSOR**

ITEM	PART NO.	DESCRIPTION	QTY
	4601526	Wire Harness (Low Fuel Sensor)	1
1		Connector Assembly (To Engine Harness)	1
1	1527273	Connector	1
1	1527305	Connector Lock	1
1	1402926	Terminal	3
1	1402927	Terminal	5
1	1503334	Seal	3
1	1507571	Seal	5
2	1539859	Clip	1
3		Connector Assembly (Latching Relay)	1
3	1461743	Relay	1
3	1461744	Connector Body	1
3	1503088	Lock	1
3	1327164	Seal	1
3	1402912	Terminal	4
3	1323579	Seal	4
4		Connector Assembly (Air Restriction Sensor Cap)	1
4	1465466	Diode	1
4	1327164	Seal	2
5		Connector Assembly (Air Restriction Sensor)	1
5	1465469	Connector	1
5	1323578	Terminal	2
5	1402888	Seal	2
6		Connector Assembly (LPG Lockoff)	1
6	1599337	Connector	1
6	1623057	Terminal	2
7		Connector Assembly (Low LPG Sensor)	1
7	1547629	Connector	1
7	1508232	Terminal	3
7	2060555	Wire Seal	3

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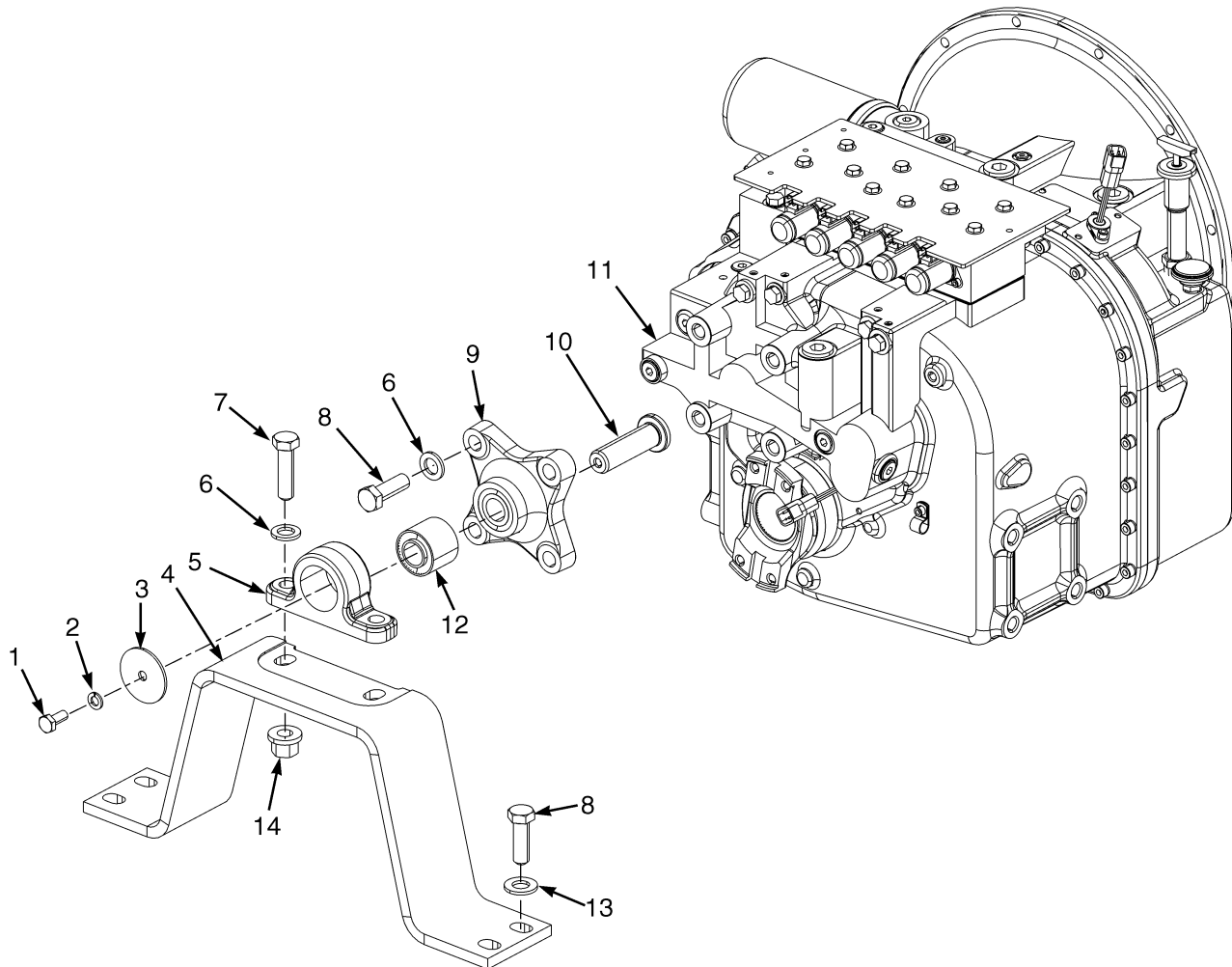
5

TRANSMISSION

**SECTION 5
TRANSMISSION**

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TRANSMISSION MOUNT (FIGURE 5-1)



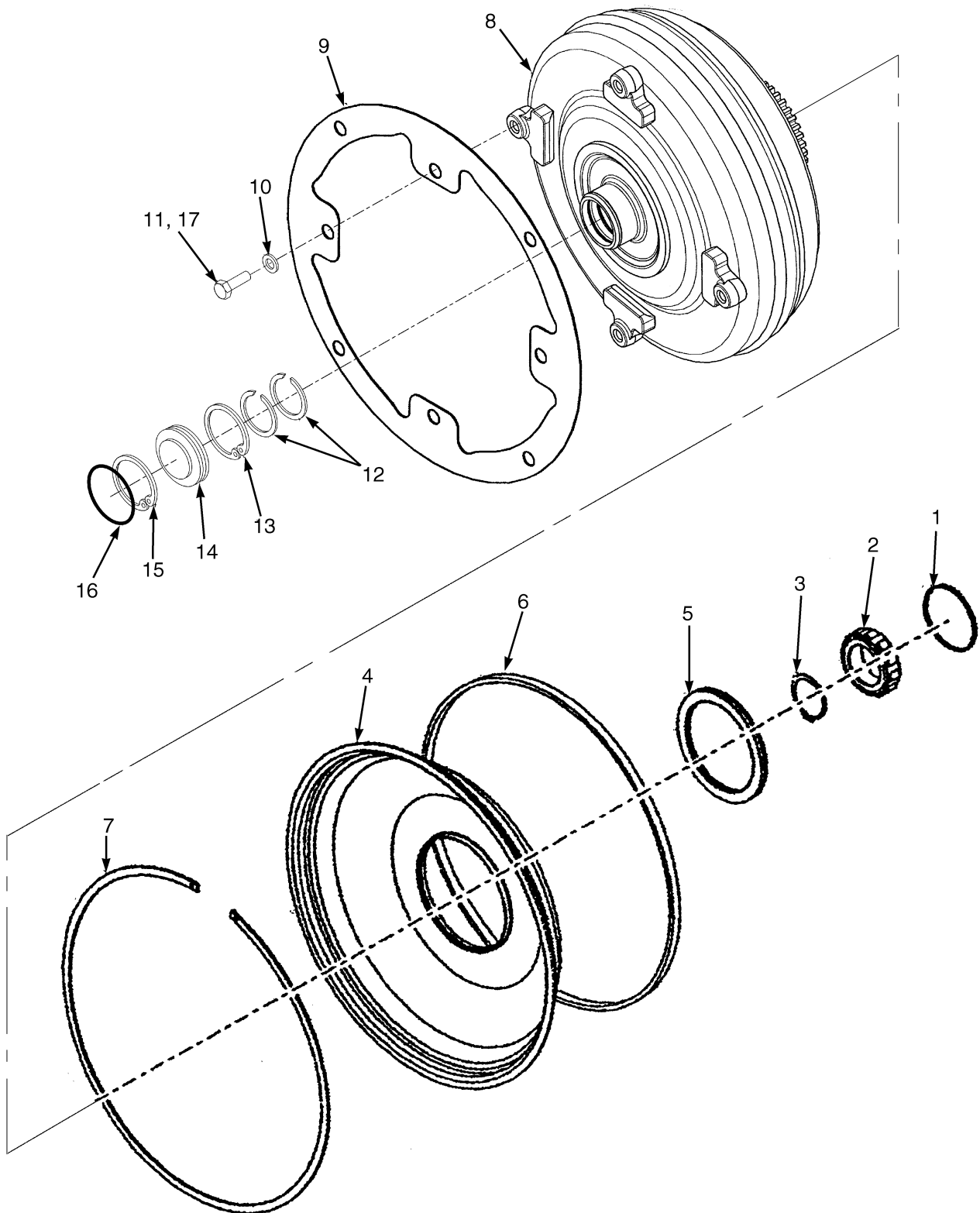
BP240128

TRANSMISSION MOUNT

ITEM	PART NO.	DESCRIPTION	QTY
1	287854	Capscrew	1
2	~~388049~~		
	292682	Lockwasher	1
3	1591721	Washer	1
4	1591719	Crossmember	1
5	1591717	Housing (Bushing)	1
6	296426	Washer	6
7	293688	Capscrew	2
8	293686	Capscrew	8
9	1617487	Bracket (Isolator)	1
10	1591720	Pin	1
11	a 1672300	Transmission Assy (Two Speed)	1
11	d 1699927	Transmission Assy (Two Speed) (☞ Figure 5-15, ☞ Figure 5-16).....	1
11	e 1672299	Transmission Assy (Three Speed)	1
11	b 1699926	Transmission Assy (Three Speed) (☞ Figure 5-7, ☞ Figure 5-8).....	1
11	c 4010141	Transmission Assy	1
12	1591716	Bushing	1
13	296427	Washer	4
14	1565453	Nut (Flange)	2

FOOTNOTES:**a** → S/N J006V01679G**b** S/N J006V02223G ↔ S/N J006V02483G**c** S/N J006V02484G →**d** S/N J006V02110G →**e** S/N J006V02222G →

TORQUE CONVERTER (FIGURE 5-2) GM 4.3L GASOLINE AND LPG

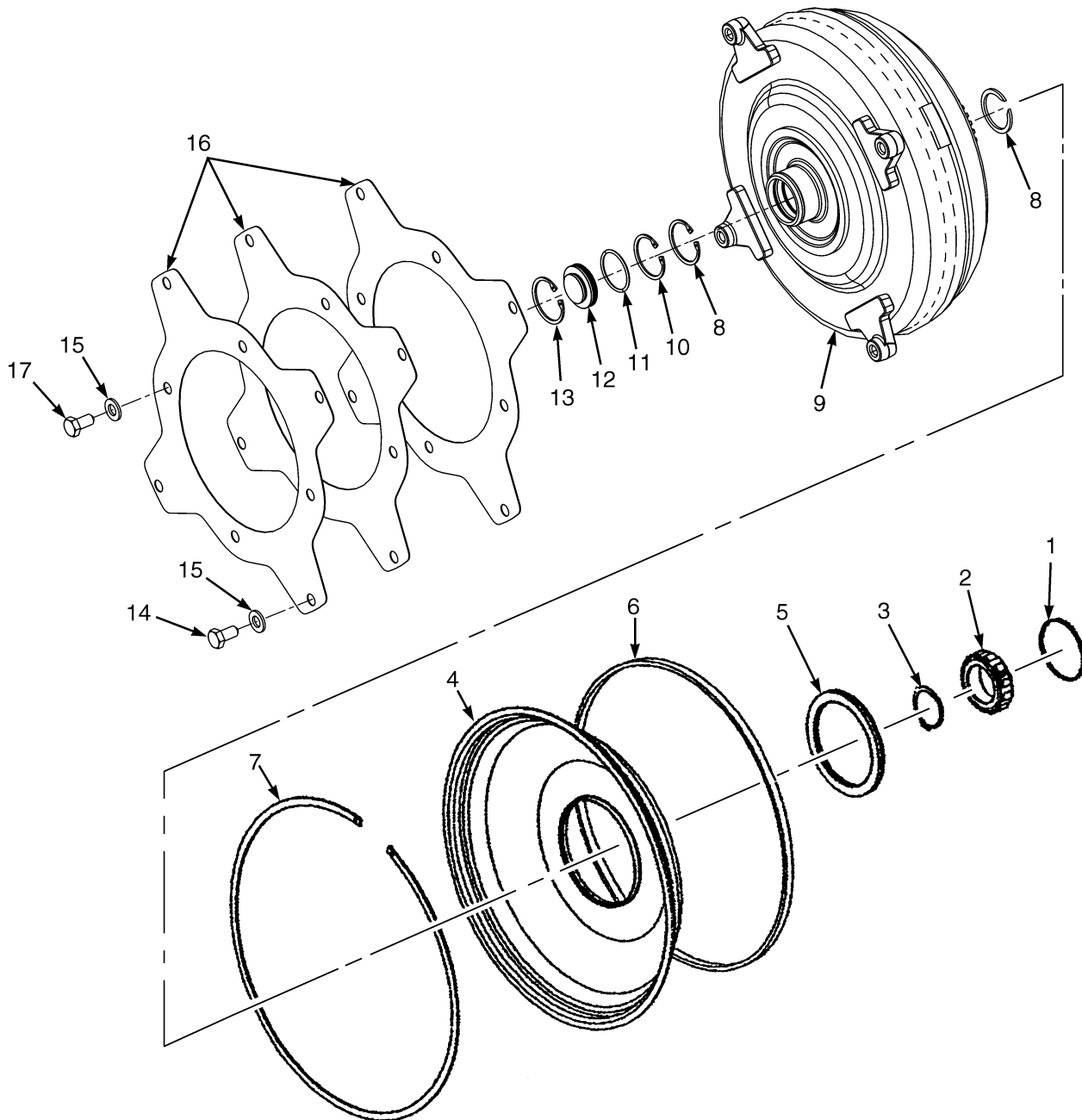


BP240087

**TORQUE CONVERTER
GM 4.3L GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	1655812	Piston Ring	1
2	1655813	Bearing	1
3	1655814	Snap Ring	1
4	1684271	Baffle	1
5	1684272	Oil Seal	1
6	1312375	Seal	1
7	1312376	Retaining Ring	1
8	1657918	Torque Converter (2.61 Stall Ratio) (2.61 Stall Ratio)	1
8	1657917	Torque Converter (3.17 Stall Ratio) (3.17 Stall Ratio)	1
9	1636958	Mounting Plate	3
10	296420	Washer	8
11	1541921	Capscrew	8
12	37065	Snap Ring	2
13	1194254	Snap Ring	1
14	1603286	Plug	1
15	205222	Snap Ring	1
16	1311840	O-Ring	1
17	360387	Loctite	AR

TORQUE CONVERTER (FIGURE 5-3) CUMMINS QSB 3.3L DIESEL

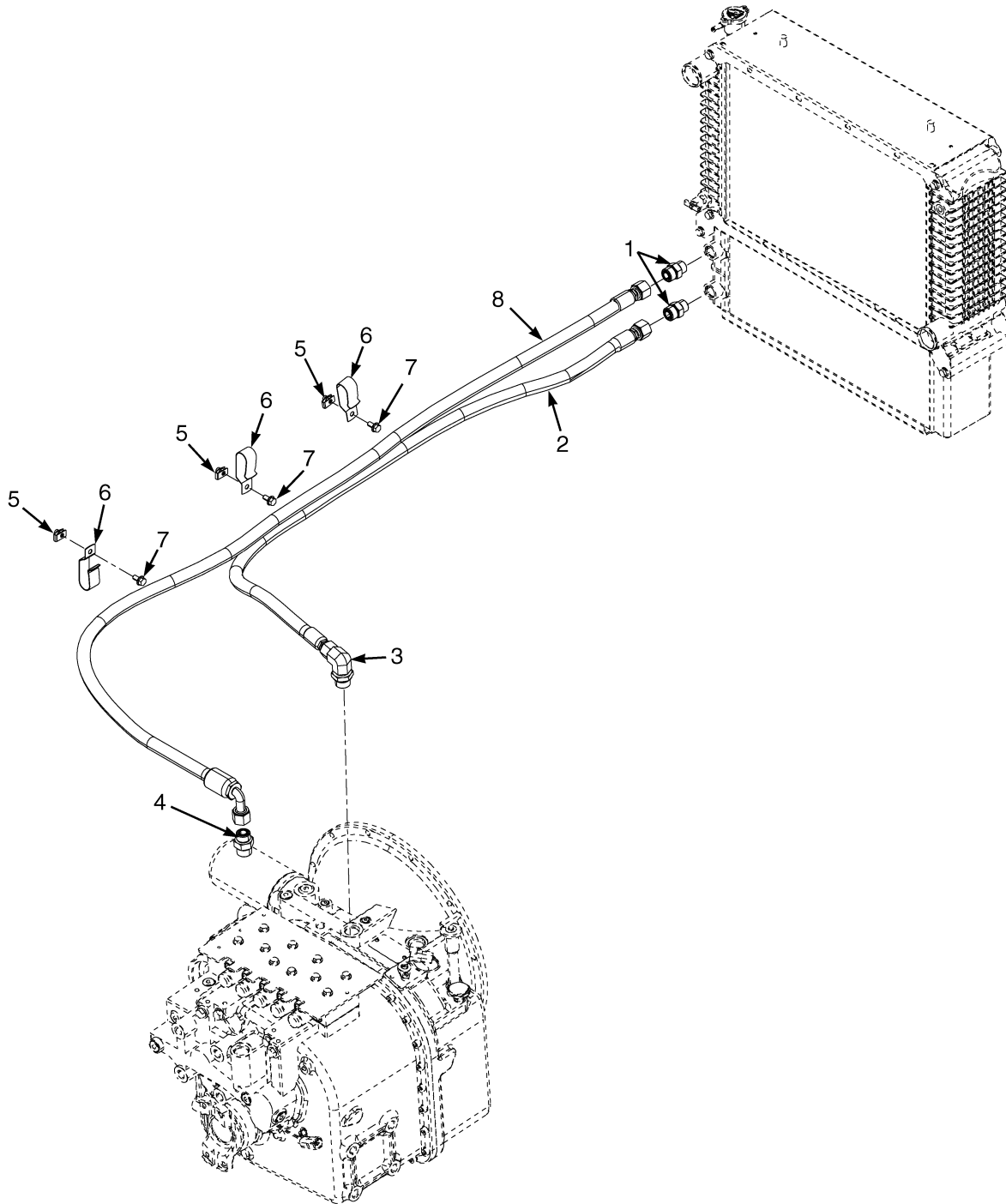


BP240109

**TORQUE CONVERTER
CUMMINS QSB 3.3L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1655812	Piston Ring	1
2	1655813	Bearing	1
3	1655814	Snap Ring	1
	1312274	Baffle And Seal Assembly	1
4	1684271	Baffle	1
5	330532	Seal	1
5	1684272	Oil Seal	1
6	1312375	Seal	1
7	1312376	Retaining Ring	1
8	1655815	Snap Ring	2
9	1657919	Torque Converter (3.17 Stall Ratio)	1
10	1194254	Snap Ring	1
11	1311840	O-Ring	1
12	1603286	Plug	1
13	205222	Snap Ring	1
14	293626	Capscrew	4
15	296420	Washer	8
16	1671304	Flex Plate	3
17	1541921	Capscrew	4

TRANSMISSION COOLING (FIGURE 5-4) WITH EXTERNAL OIL COOLER

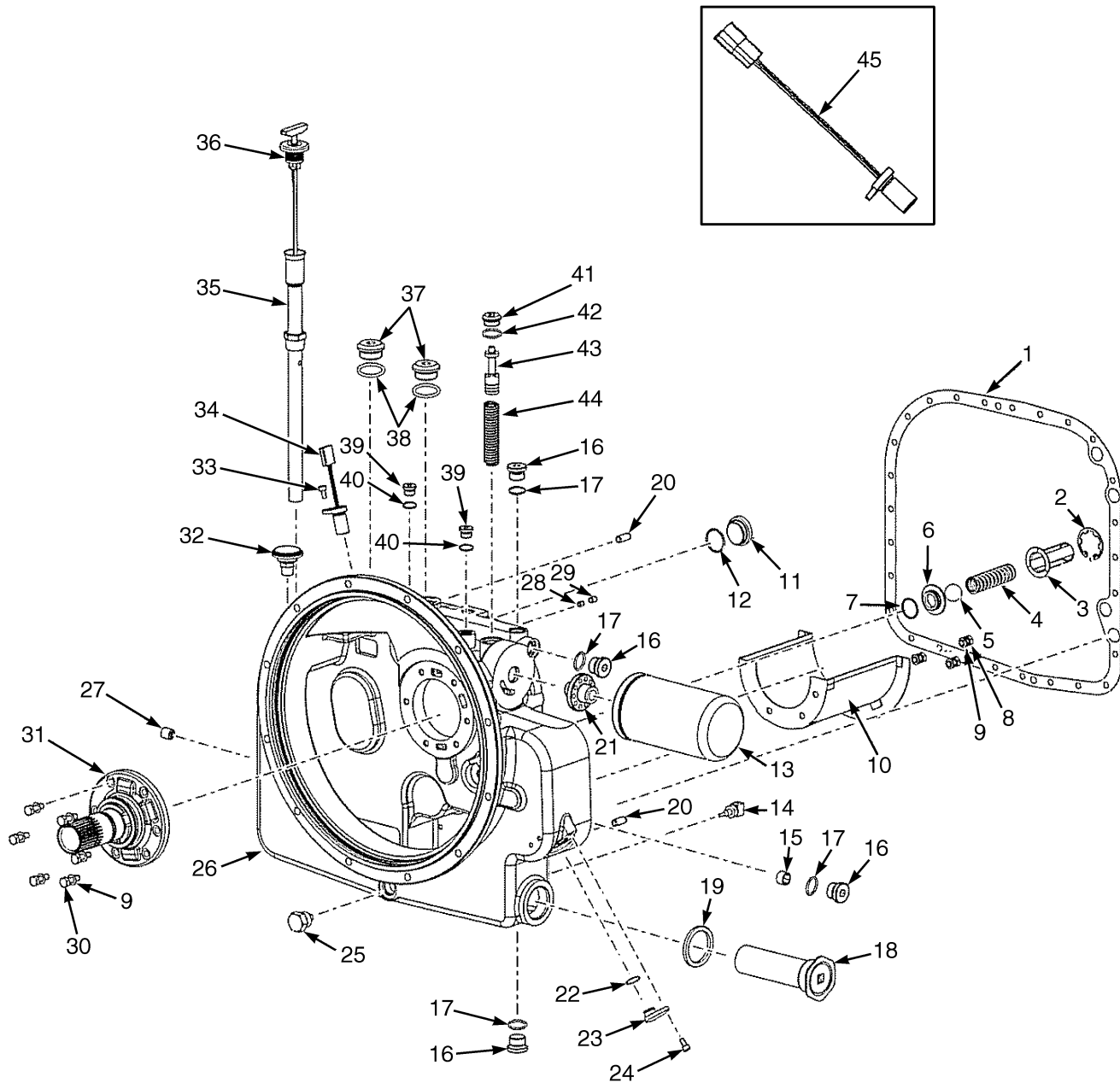


BP240125

**TRANSMISSION COOLING
WITH EXTERNAL OIL COOLER**

ITEM	PART NO.	DESCRIPTION	QTY
1	1486749	Fitting	2
1	252729	O-Ring	1
1	16485	O-Ring	1
2	2100258	Hose Assy	1
3	1487069	Fitting	1
3	252729	O-Ring	1
3	16486	O-Ring	1
4	1473898	Fitting	1
4	16486	O-Ring	1
4	1527819	O-Ring	1
5	1480237	Nut	3
6	1562648	Clip	3
7	1527879	Capscrew	3
8	2100260	Hose Assy	1

TRANSMISSION ASSEMBLY (FIGURE 5-5) THREE SPEED — SHEET 1 OF 2 (→ S/N J006V02222G)



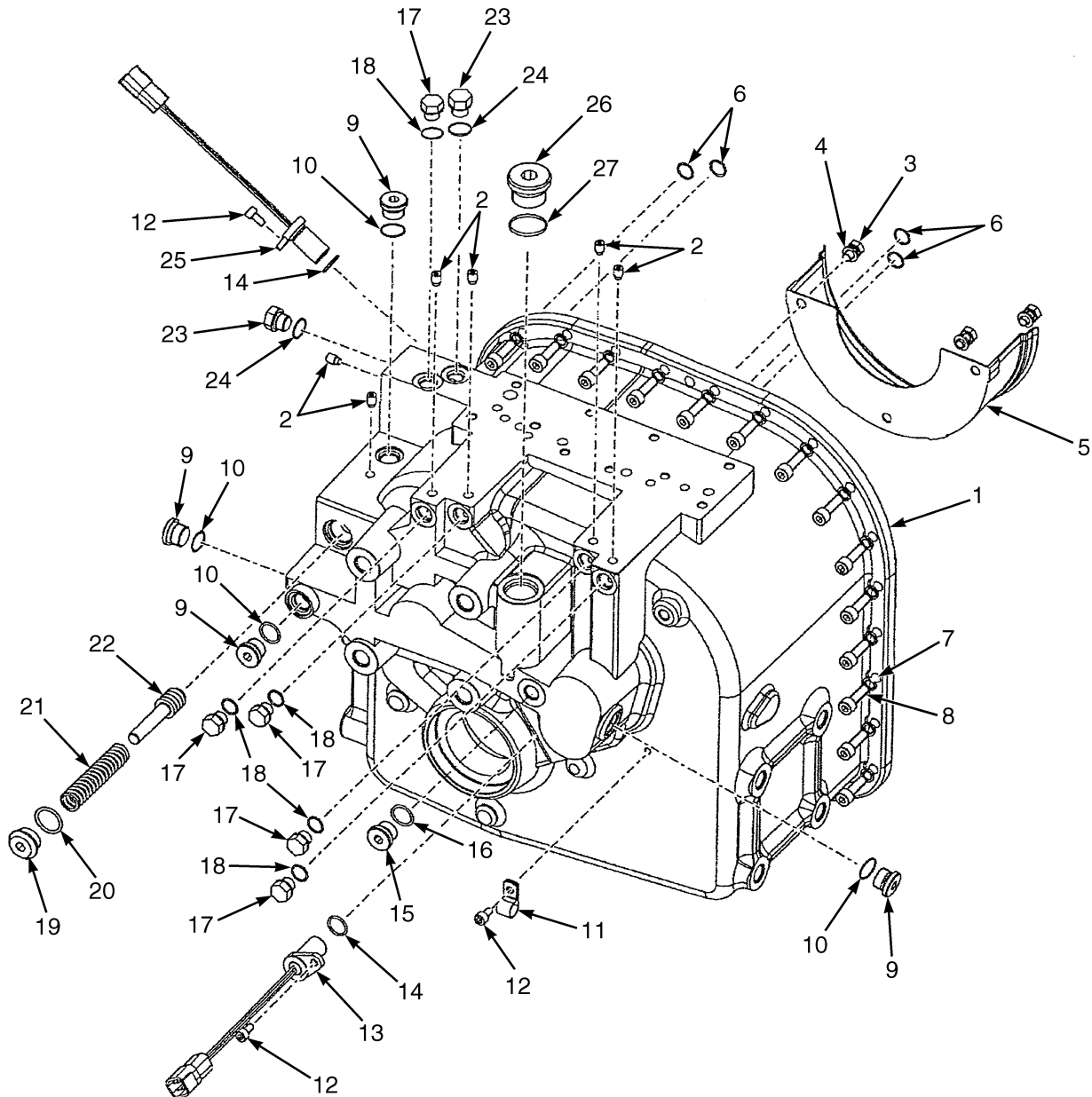
BP240145

TRANSMISSION ASSEMBLY

THREE SPEED – SHEET 1 OF 2 (→ S/N J006V02222G)

ITEM	PART NO.	DESCRIPTION	QTY
	1672299	Transmission Assy (Three Speed)	1
1	1655464	Gasket	1
2	1655455	Snap Ring	1
3	1655454	Retainer	1
4	1655453	Spring	1
5	1655452	Ball	1
6	1655451	Spacer	1
7	1655450	O-Ring	1
8	1624641	Screw	3
9	1590532	Lockwasher	9
10	1655463	Baffle	1
11	1624371	Plug	1
12	1624372	O-Ring	1
13	1556992	Transmission Filter	1
14	1655456	Sensor (Temperature)	1
15	1655465	Plug	1
16	1655459	Plug	4
17	60653	O-Ring	4
18	330514	Screen	1
19	330513	Gasket	1
20	330502	Pin	2
21	1612863	Adapter	1
22	1530732	O-Ring	1
23	1655468	Plug	1
24	1556910	Capscrew	2
25	1311544	Drain Plug	1
26	1684259	Converter Housing	1
27		Plug	1
28		Plug	1
29		Plug	1
30	1655458	Screw	6
31	1655457	Support	1
32	330527	Breather	1
33	1556910	Capscrew	2
34	1655469	Sensor (TISS)	1
35	1655461	Dipstick Tube	1
36	1655462	Dipstick	1
37	1556918	Plug	2
38	16486	O-Ring	1
39	1655460	Plug	2
40	1557008	O-Ring	1
41	1624368	Plug	1
42	1612905	O-Ring	1
43	1655466	Spool	1
44	1655467	Spring	1
45		Intermediate Shaft Speed Sensor (Behind Filter) (☞ Figure 5-6).....	1
	1655826	Kit-Gasket	1
	1684274	Kit-Gasket	1

TRANSMISSION ASSEMBLY (FIGURE 5-6) THREE SPEED — SHEET 2 OF 2 (→ S/N J006V02222G)

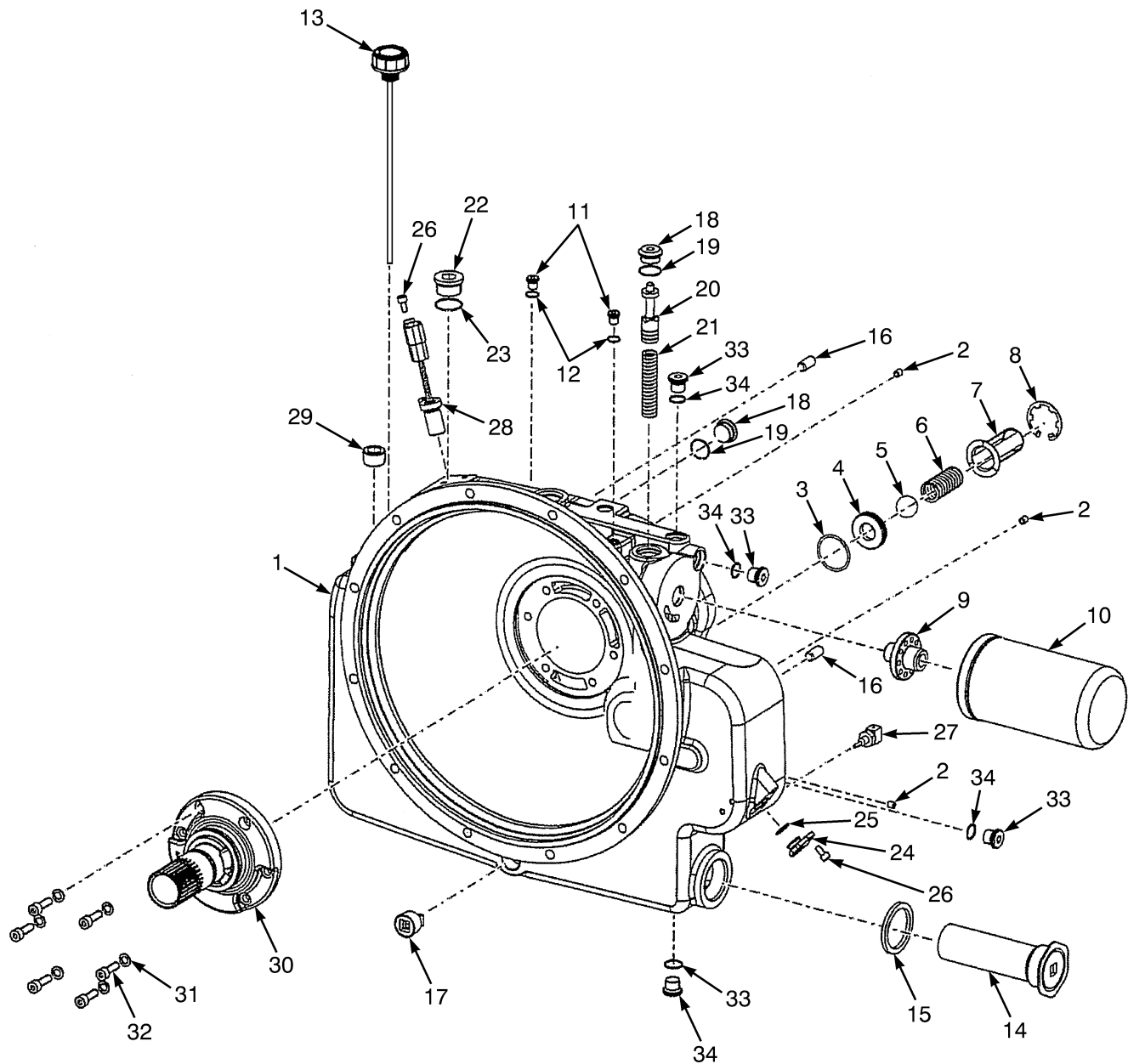


BP240111

TRANSMISSION ASSEMBLY
THREE SPEED – SHEET 2 OF 2 (→ S/N J006V02222G)

ITEM	PART NO.	DESCRIPTION	QTY
	1672299	Transmission Assy (Three Speed)	1
1	1655514	Transmission Housing	1
2	1655515	Plug	6
3	1624641	Screw	3
4	1590532	Lockwasher	3
5	1655516	Baffle	1
6	87281	O-Ring	4
7	1556998	Lockwasher	27
8	1655458	Screw	27
9	1655459	Plug	4
10	60653	O-Ring	4
11	1655522	Clip	1
12	1556910	Capscrew	3
13	1655520	Sensor (Output Speed, TOSS)	1
14	1530732	O-Ring	2
15	1655521	Plug	1
16	60653	O-Ring	1
17	14592	Plug	5
18	16482	O-Ring	5
19	1624368	Plug	1
20	1612905	O-Ring	1
21	1655518	Spring	1
22	1655517	Spool	1
23	14594	Plug	2
24	16483	O-Ring	2
25	1655519	Sensor (Intermediate Speed Sensor)	1
26	1556918	Plug	1
27	16486	O-Ring	1

TRANSMISSION ASSEMBLY (FIGURE 5-7) THREE SPEED — SHEET 1 OF 2 (S/N J006V02223G →)



BP240157

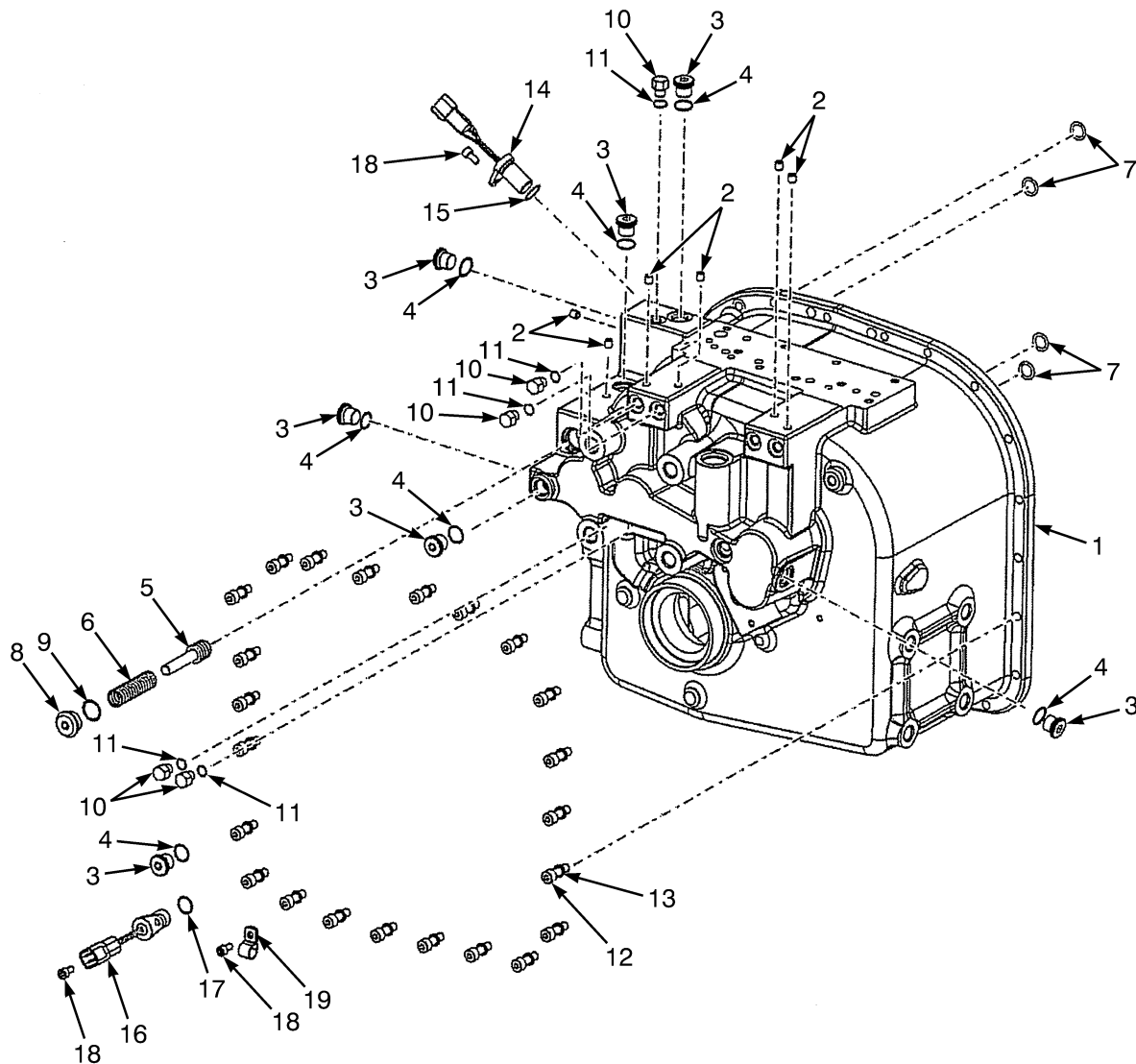
TRANSMISSION ASSEMBLY

THREE SPEED – SHEET 1 OF 2 (S/N J006V02223G →)

ITEM	PART NO.	DESCRIPTION	QTY
	a 1699926	Transmission Assy (Three Speed)	1
	b 4010141	Transmission Assy	1
1	1707735	Converter Housing	1
2	1655515	Plug	3
3	1707736	O-Ring	1
4	1707737	Spacer	1
5	1655452	Ball	1
6	1655453	Spring	1
7	1655454	Retainer	1
8	1655455	Snap Ring	1
9	1612863	Adapter	1
10	1556992	Transmission Filter	1
11	1655460	Plug	2
12	1557008	O-Ring	2
13	1707738	Dipstick And Breather	1
14	330514	Screen	1
15	330513	Gasket	1
16	330502	Pin	2
17	1311544	Drain Plug	1
18	1624368	Plug	2
19	1612905	O-Ring	1
20	1655466	Spool	1
21	1655467	Spring	1
22	1556918	Plug	1
23	16486	O-Ring	1
24	1655468	Plug	1
25	1530732	O-Ring	1
26	1556910	Capscrew	2
27	1655456	Sensor (Temperature)	1
28	1655469	Sensor (TISS)	1
29	1311552	Plug	1
30	1655457	Support	1
31	1590532	Lockwasher	6
32	1655458	Screw	6
33	1655459	Plug	2
34	60653	O-Ring	2
	1709808	Kit-Gasket	1

FOOTNOTES:**a** → S/N J006V02483G**b** S/N J006V02484G →

TRANSMISSION ASSEMBLY (FIGURE 5-8) THREE SPEED — SHEET 2 OF 2 (S/N J006V02223G →)



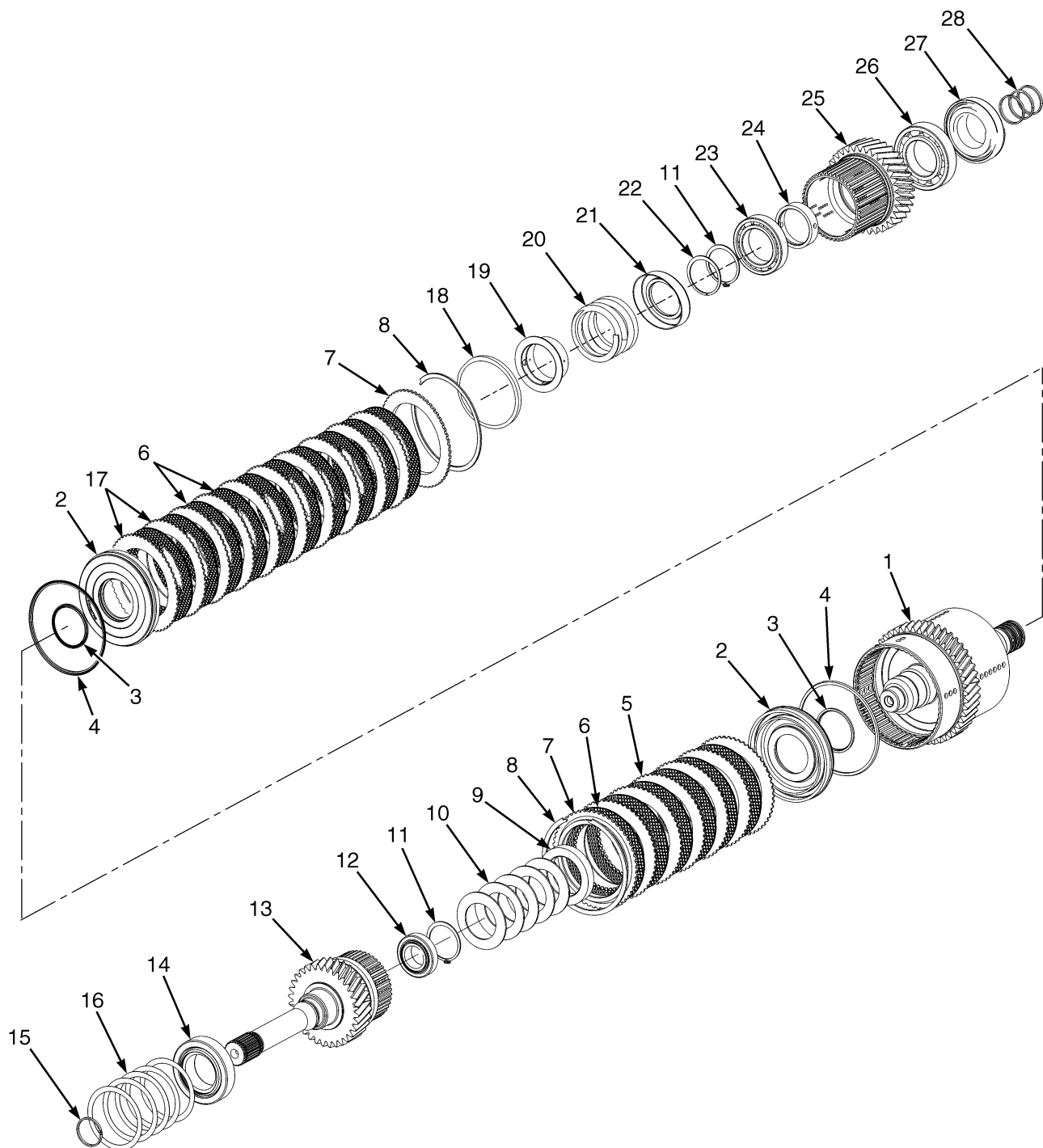
BP240158

TRANSMISSION ASSEMBLY
THREE SPEED – SHEET 2 OF 2 (S/N J006V02223G →)

ITEM	PART NO.	DESCRIPTION	QTY
	a 1699926	Transmission Assy (Three Speed)	1
	b 4010141	Transmission Assy	1
1	1707741	Transmission Housing	1
2	1655515	Plug	6
3	1655459	Plug	7
4	60653	O-Ring	7
5	1655517	Spool	1
6	1655518	Spring	1
7	87281	O-Ring	4
8	1624368	Plug	1
9	1612905	O-Ring	1
10	1557007	Plug	5
11	1557008	O-Ring	5
12	1655458	Screw	23
13	1556998	Lockwasher	23
14	1655519	Sensor (Intermediate Speed Sensor)	1
15	1530732	O-Ring	1
16	1655520	Sensor (Output Speed, TOSS)	1
17	1530732	O-Ring	1
18	1556910	Capscrew	3
19	1655522	Clip	1

FOOTNOTES:**a** → S/N J006V02483G**b** S/N J006V02484G →

FORWARD CLUTCH LOW AND SECOND SHAFT (FIGURE 5-9) THREE SPEED TRANSMISSION — FWD1, RANGE2



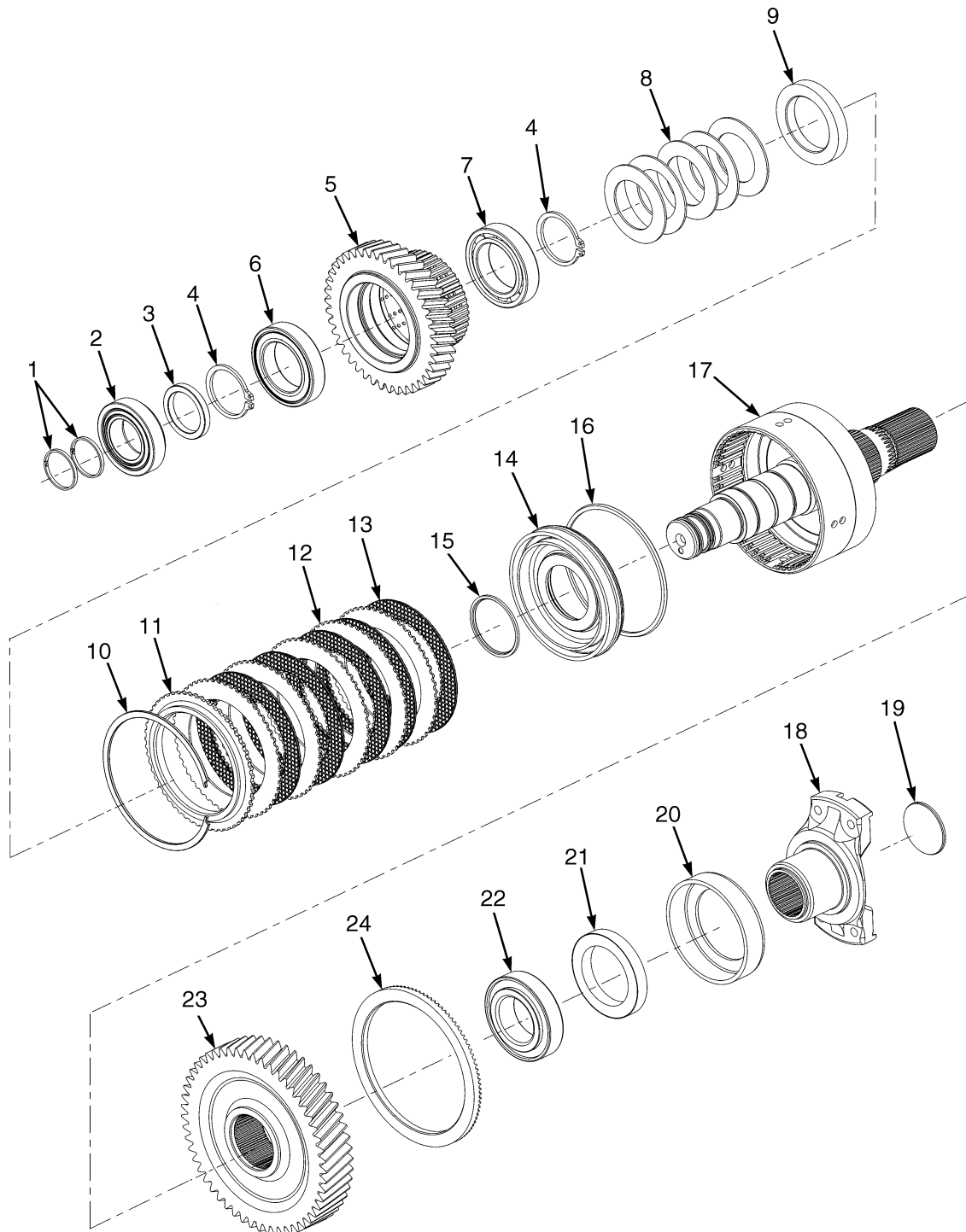
BP240114

**FORWARD CLUTCH LOW AND SECOND SHAFT
THREE SPEED TRANSMISSION – FWD1, RANGE2**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1655545	Shaft (RANGE2)	1
1	b 1707745	Shaft	1
2	1655546	Clutch Piston	2
3	1655547	Seal	1
4	1311811	Piston Seal	1
5	1655548	Friction Disk (Inner, High Density)	17
6	1556965	Separator Plate (Outer)	6
7	1655552	Plate	2
8	1311810	Snap Ring	2
9	1655558	Spacer	1
10	1655557	Disk Spring	1
11	1655561	Snap Ring	2
12	1655562	Bearing	1
13	1655596	Shaft (Forward)	1
14	1655597	Bearing	1
15	1556985	Piston Ring	1
16	1655598	Shim	AR
16	1655599	Shim	AR
16	1655600	Shim	AR
16	b 1707749	Shim	AR
17	1655549	Separator Plate (Outer)	11
18	a 1655553	Seal	1
18	b 1707746	Sealing Ring	1
19	1655555	Retainer	1
20	1655554	Spring	1
21	a 1655556	Retainer	1
21	b 1655606	Retainer	1
22	a 1655601	Snap Ring	1
22	b 1707750	Retaining Ring	1
23	330590	Bearing	1
24	a 1655560	Spacer	1
24	b 1707748	Spacer	1
25	a 1655559	Gear	1
25	b 1707747	Clutch Gear	1
26	a 1612529	Bearing	1
26	b 1389220	Bearing	1
27	1655550	Bearing	1
28	1556985	Piston Ring	3

FOOTNOTES:**a** → S/N J006V02222G**b** S/N J006V02223G →

FORWARD CLUTCH HIGH AND OUTPUT SHAFT (FIGURE 5-10) THREE SPEED TRANSMISSION — FWD2



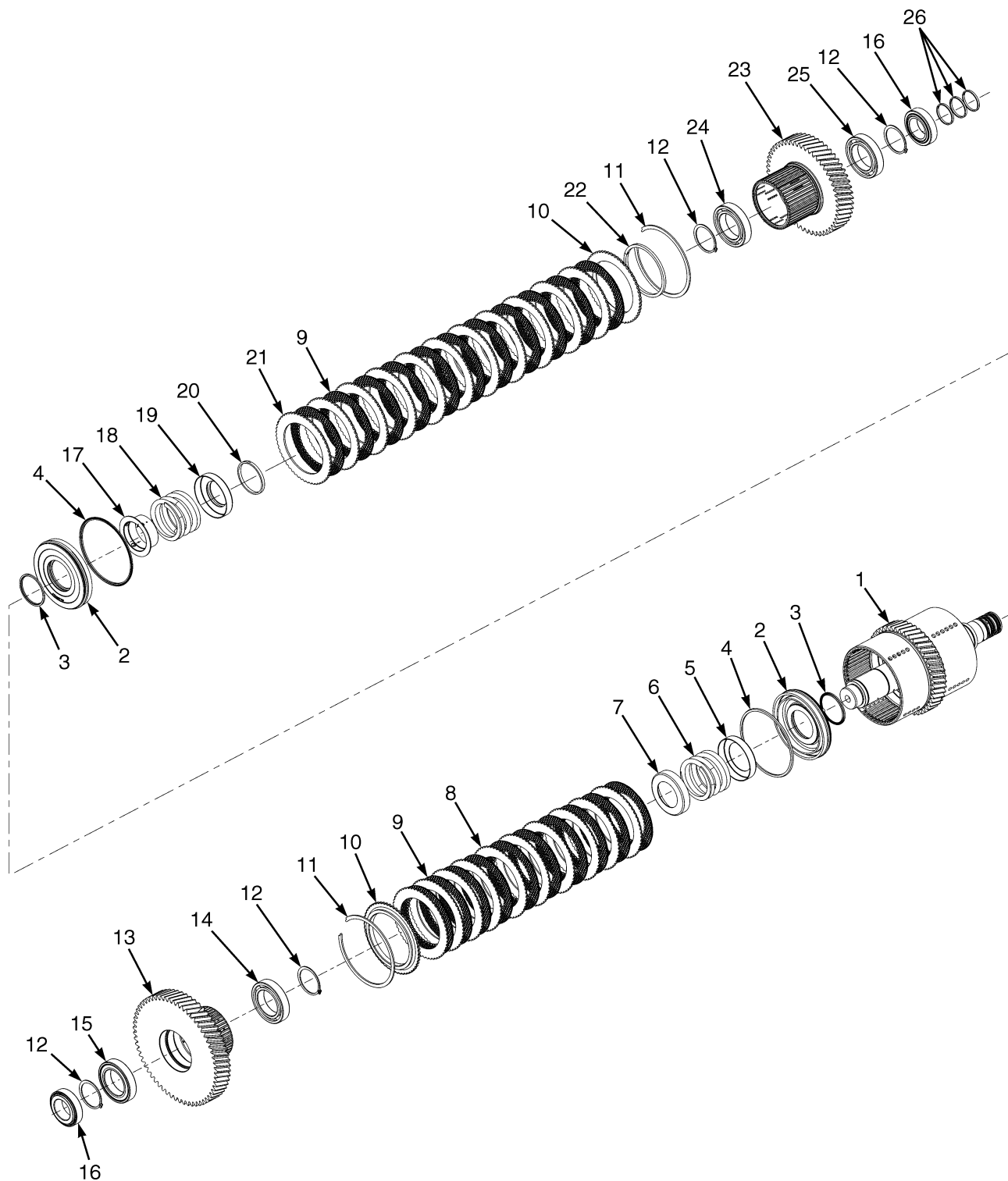
BP240116

**FORWARD CLUTCH HIGH AND OUTPUT SHAFT
THREE SPEED TRANSMISSION – FWD2**

ITEM	PART NO.	DESCRIPTION	QTY
1	1556985	Piston Ring	2
2	c 1655617	Bearing	1
2	d 1707768	Bearing	1
3	b 1655615	Spacer	1
4	1655561	Snap Ring	2
5	c 1655616	Gear (FWD2)	1
5	d 1707767	Gear	1
5	ad 1707750	Retaining Ring	1
6	1312359	Bearing	1
7	330590	Bearing	1
8	1655557	Disk Spring	1
9	1655558	Spacer	1
10	1311810	Snap Ring	1
11	1655552	Plate	1
12	1556965	Separator Plate (Outer)	5
13	1655548	Friction Disk (Inner, High Density)	5
14	1655546	Clutch Piston	1
15	1655547	Seal	1
16	1311811	Piston Seal	1
17	c 1655614	Shaft (Output and FWD2)	1
17	d 1707766	Shaft	1
18	c 1655622	Flange	1
18	d 1707769	Flange	1
19	c 1655624	Plug	1
19	d 1707770	Plug	1
20	1655623	Cover	1
21	1655621	Oil Seal	1
22	1655618	Bearing	1
23	1694403	Transmission Gear (Output with Tone Ring)	1
24		Ring	1

FOOTNOTES:**a** Not Illustrated**b** Not used with this application**c** → S/N J006V02222G**d** S/N J006V02223G →

REVERSE CLUTCH AND FIRST SHAFT (FIGURE 5-11) THREE SPEED TRANSMISSION — REV1, RANGE 1



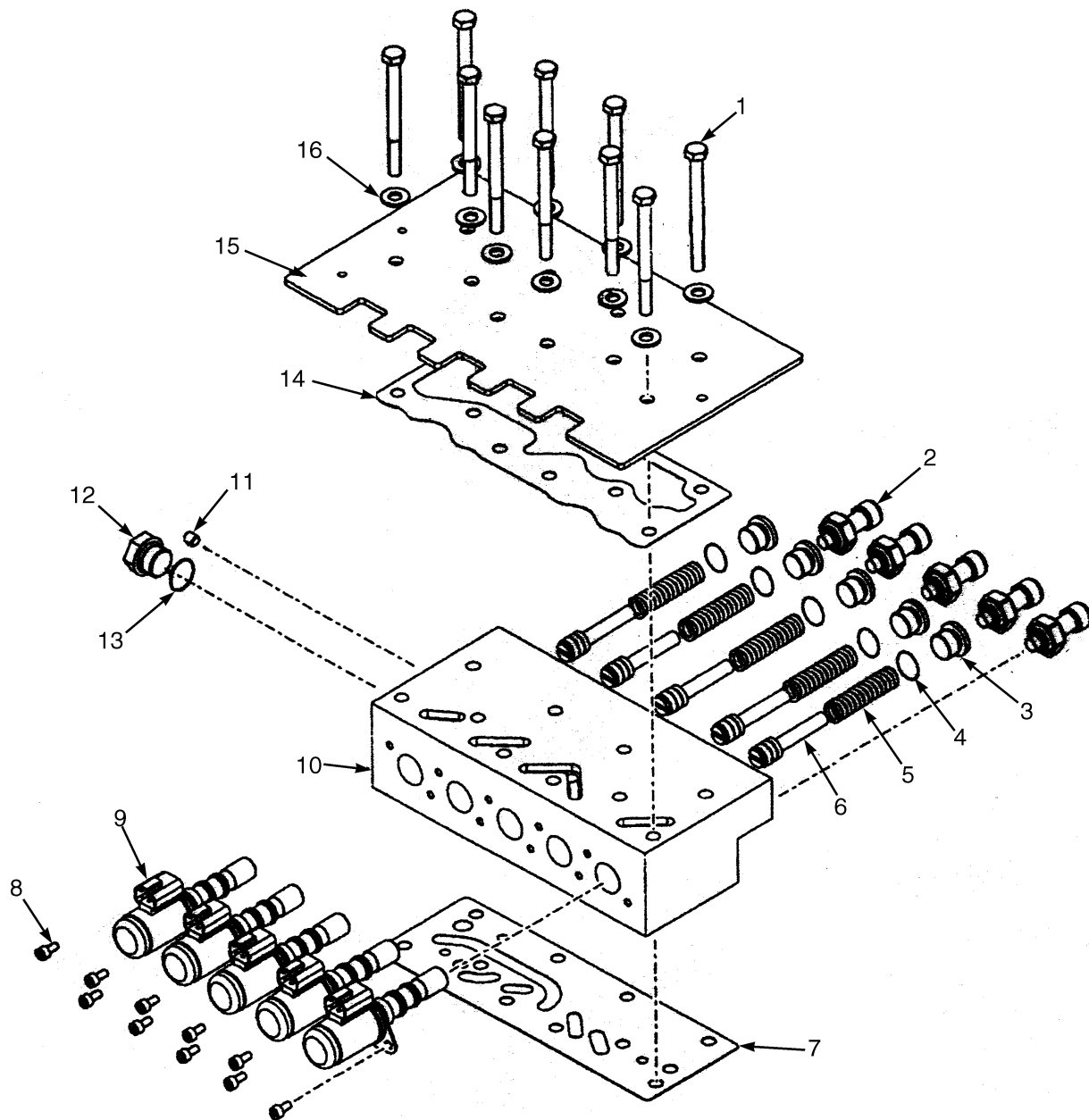
BP240115

**REVERSE CLUTCH AND FIRST SHAFT
THREE SPEED TRANSMISSION – REV1, RANGE 1**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1655604	Shaft	1
1	b 1707762	Shaft	1
2	1655546	Clutch Piston	2
3	1655547	Seal	2
4	1311811	Piston Seal	2
5	1655605	Retainer	1
6	1655610	Spring	1
7	1655556	Retainer	1
7	1707750	Retaining Ring	1
8	1556965	Separator Plate (Outer)	10
9	1655548	Friction Disk (Inner, High Density)	21
10	1655552	Plate	2
11	1311810	Snap Ring	2
12	1655561	Snap Ring	4
13	a 1655609	Gear (1st Clutch) (RANGE1)	1
13	b 1707764	Gear (1st Clutch)	1
13	b 1707750	Retaining Ring	1
14	330590	Bearing	1
15	1312359	Bearing	1
16	1655607	Bearing	2
17	1655555	Retainer	1
18	1655554	Spring	1
19	1655606	Retainer	1
20	1655601	Snap Ring	1
21	1655549	Separator Plate (Outer)	11
22	a 1655553	Seal	1
22	b 1707746	Sealing Ring	1
23	a 1655608	Gear (REV1)	1
23	b 1707763	Gear	1
23	b 1707750	Retaining Ring	1
24	330590	Bearing	1
25	1312359	Bearing	1
26	1556985	Piston Ring	3

FOOTNOTES:**a** → S/N J006V02222G**b** S/N J006V02223G →

CONTROL VALVE (FIGURE 5-12) THREE SPEED TRANSMISSION



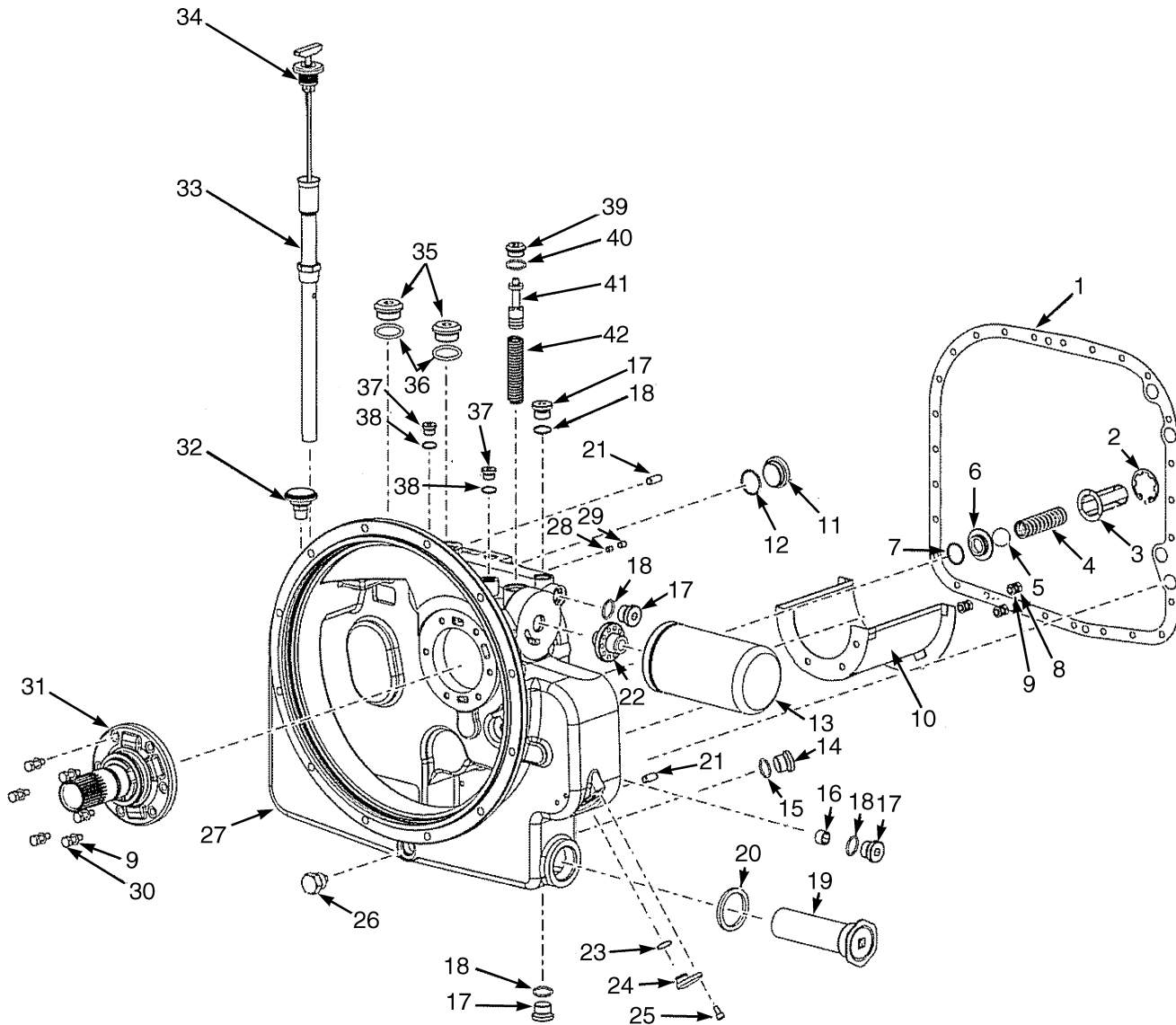
BP240117

**CONTROL VALVE
THREE SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1694405	Valve	1
	b 4015130	Valve	1
1	1557009	Capscrew	10
2	1655633	Sensor (Valve Pressure)	5
3	1655639	Plug	5
4	87281	O-Ring	1
5		Spring	5
6	a	Spool	5
6	b 4015133	Spool	5
6	b 4015134	Pin	5
7	1655636	Gasket	1
8	1655638	Capscrew	10
9	a 1655632	Solenoid Valve	5
9	1324792	O-Ring	1
9	1324790	Retainer	2
10	a 1655630	Body	1
10	b 4015131	Valve	1
11	1655631	Plug	1
12	14589	Plug	1
13	16484	O-Ring	1
14	1655634	Gasket	1
15	1655635	Cover (Control Valve)	1
16	a 1655637	Washer	10
16	b 1590532	Lockwasher	10

FOOTNOTES:**a** → S/N J006V02483G**b** S/N J006V02484G →

TRANSMISSION ASSEMBLY (FIGURE 5-13) TWO SPEED — SHEET 1 OF 2 (→ S/N J006V02109G)



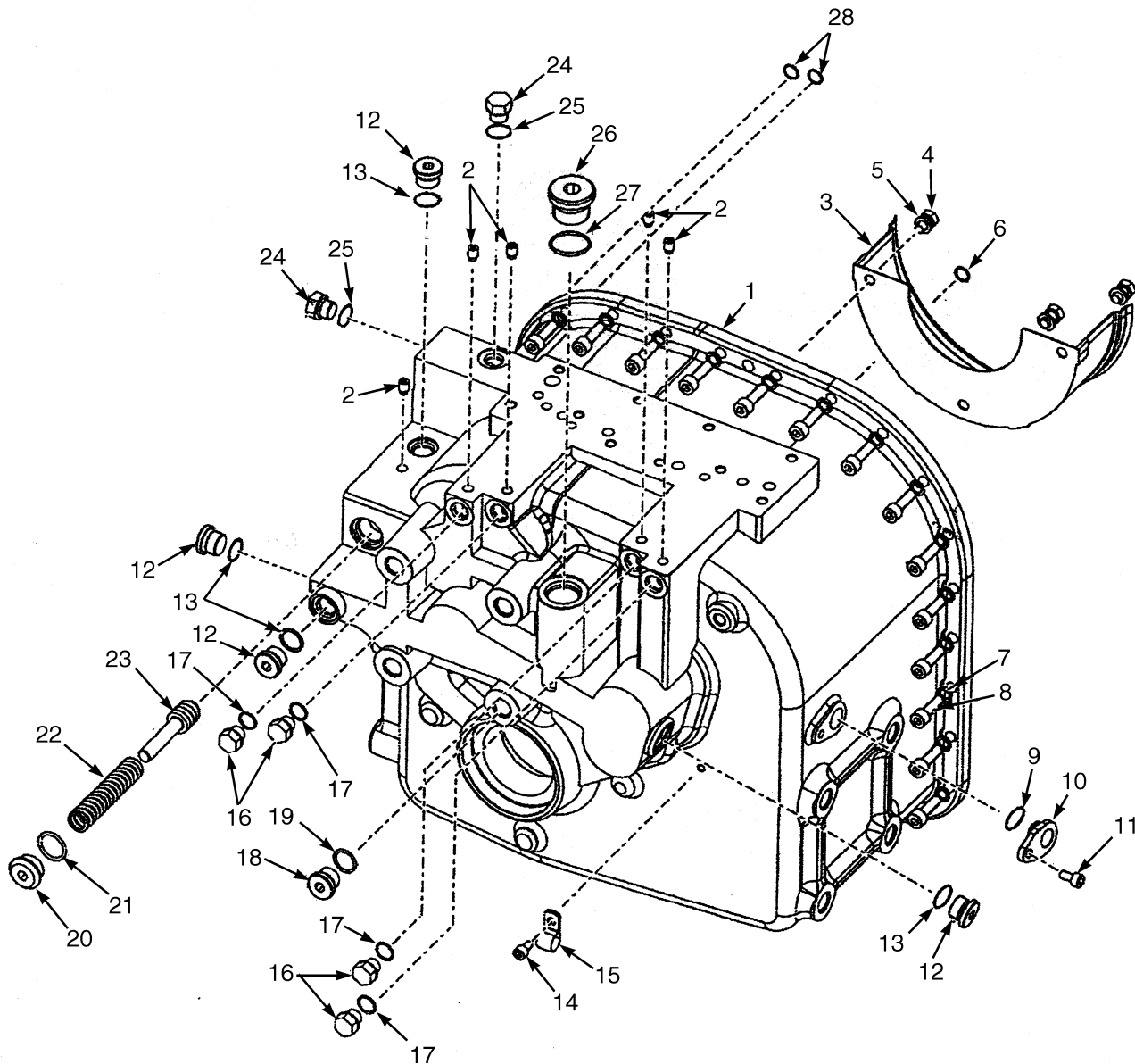
BP240120

TRANSMISSION ASSEMBLY

TWO SPEED – SHEET 1 OF 2 (→ S/N J006V02109G)

ITEM	PART NO.	DESCRIPTION	QTY
	1672300	Transmission Assy (Two Speed)	1
1	1655464	Gasket	1
2	1655455	Snap Ring	1
3	1655454	Retainer	1
4	1655453	Spring	1
5	1655452	Ball	1
6	1655451	Spacer	1
7	1655450	O-Ring	1
8	1624641	Screw	3
9	1590532	Lockwasher	9
10	1655463	Baffle	1
11	1624371	Plug	1
12	1624372	O-Ring	1
13	1655472	Transmission Filter	1
14	1612305	Plug	1
15	1624370	O-Ring	1
16		Plug	1
17	1655459	Plug	4
18	60653	O-Ring	4
19	330514	Screen	1
20	330513	Gasket	1
21	330502	Pin	2
22	1612863	Adapter	1
23	1530732	O-Ring	1
24	1655468	Plug	1
25	1556910	Capscrew	1
26	1311544	Drain Plug	1
27	1684327	Converter Housing	1
28		Plug	1
29		Plug	1
30	1655458	Screw	6
31	1655457	Support	6
32	330527	Breather	1
33	1655461	Dipstick Tube	1
34	1655462	Dipstick	1
35	1556918	Plug	2
36	16486	O-Ring	1
37	1655460	Plug	2
38	1557008	O-Ring	2
39	1624368	Plug	2
40	1612905	O-Ring	1
41	1655466	Spool	1
42	1655467	Spring	1
	1655826	Kit-Gasket	1
	1684274	Kit-Gasket	1

TRANSMISSION ASSEMBLY (FIGURE 5-14) TWO SPEED — SHEET 2 OF 2 (→ S/N J006V02109G)

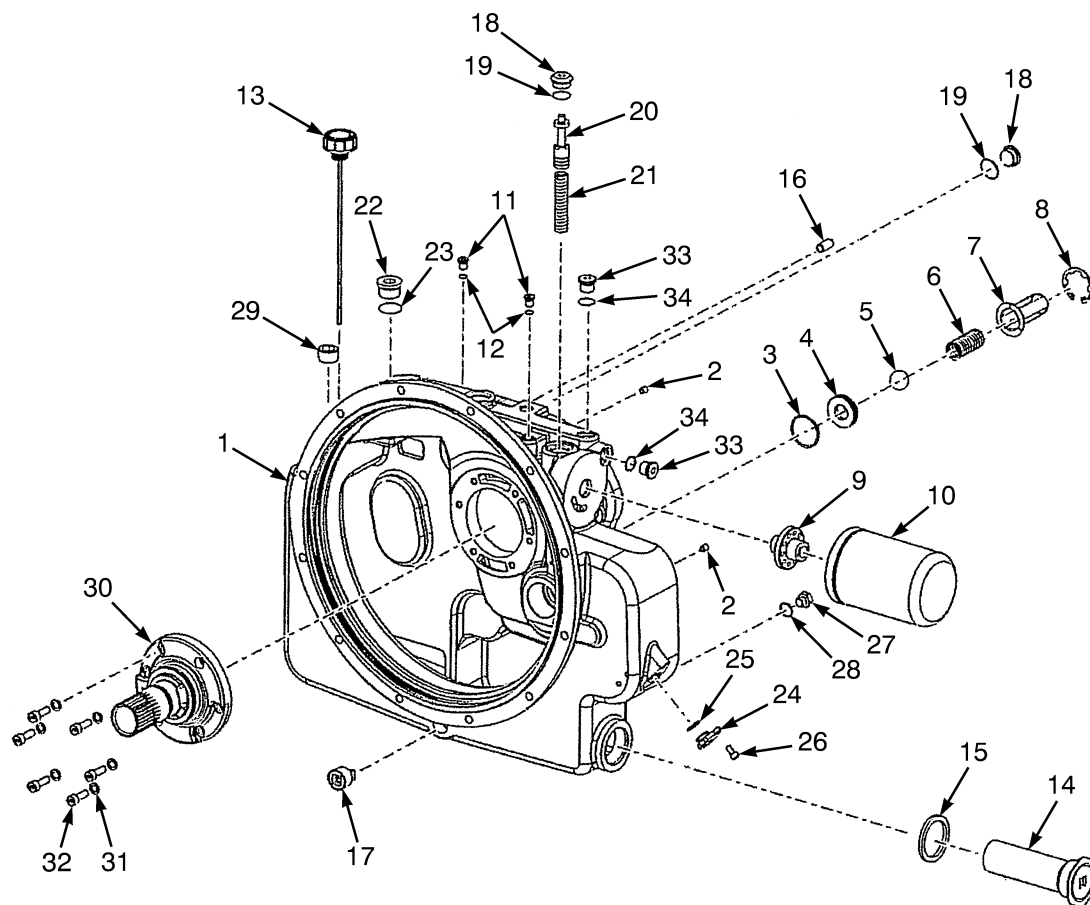


BP240118

TRANSMISSION ASSEMBLY
TWO SPEED – SHEET 2 OF 2 (→ S/N J006V02109G)

ITEM	PART NO.	DESCRIPTION	QTY
	1672300	Transmission Assy (Two Speed)	1
1	1655524	Case	1
2	1655515	Plug	5
3	1655516	Baffle	1
4	1624641	Screw	3
5	1590532	Lockwasher	3
6	87281	O-Ring	3
7	1556998	Lockwasher	27
8	1655458	Screw	27
9	1530732	O-Ring	1
10	1655468	Plug	1
11	1556910	Capscrew	2
12	1655459	Plug	4
13	60653	O-Ring	4
14	1556910	Capscrew	2
15	1655522	Clip	1
16	14592	Plug	4
17	16482	O-Ring	4
18	1655521	Plug	1
19	60653	O-Ring	1
20	1624368	Plug	1
21	1612905	O-Ring	1
22	1655518	Spring	1
23	1655517	Spool	1
24	14594	Plug	2
25	16483	O-Ring	2
26	1556918	Plug	1
27	16486	O-Ring	1
28	87281	O-Ring	3

TRANSMISSION ASSEMBLY (FIGURE 5-15) TWO SPEED — SHEET 1 OF 2 (S/N J006V02110G →)

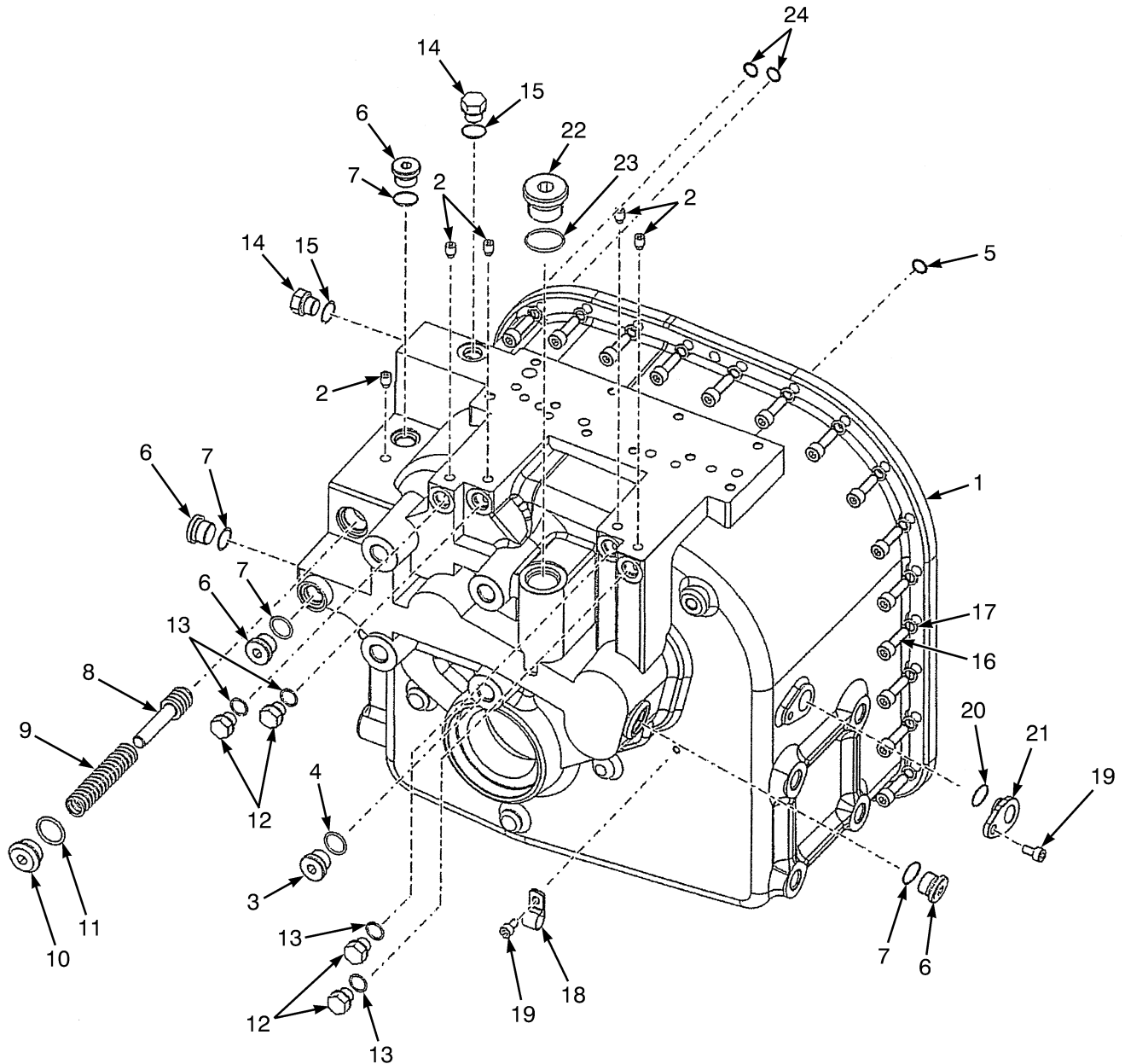


BP080830

TRANSMISSION ASSEMBLY
TWO SPEED – SHEET 1 OF 2 (S/N J006V02110G →)

ITEM	PART NO.	DESCRIPTION	QTY
	1699927	Transmission Assy (Two Speed)	1
1	1707796	Converter Housing	1
2	1655515	Plug	1
3	1707736	O-Ring	1
4	1707737	Spacer	1
5	1655452	Ball	1
6	1655453	Spring	1
7	1655454	Retainer	1
8	1655455	Snap Ring	1
9	1612863	Adapter	1
10	1655472	Transmission Filter	1
11	1655460	Plug	2
12	1557008	O-Ring	2
13	1707738	Dipstick And Breather	1
14	330514	Screen	1
15	330513	Gasket	1
16	330502	Pin	2
17	1311544	Drain Plug	1
18	1624368	Plug	2
19	1612905	O-Ring	2
20	1655466	Spool	1
21	1655467	Spring	1
22	1556918	Plug	1
23	16486	O-Ring	1
24	1655468	Plug	1
25	1530732	O-Ring	1
26	1556910	Capscrew	1
27	1612305	Plug	1
28	1684329	Washer	1
29	1311552	Plug	1
30	1655457	Support	1
31	1590532	Lockwasher	6
32	1655458	Screw	6
33	1655459	Plug	2
34	60653	O-Ring	2
	1709809	Kit-Gasket	1

TRANSMISSION ASSEMBLY (FIGURE 5-16) TWO SPEED — SHEET 2 OF 2 (S/N J006V02110G →)

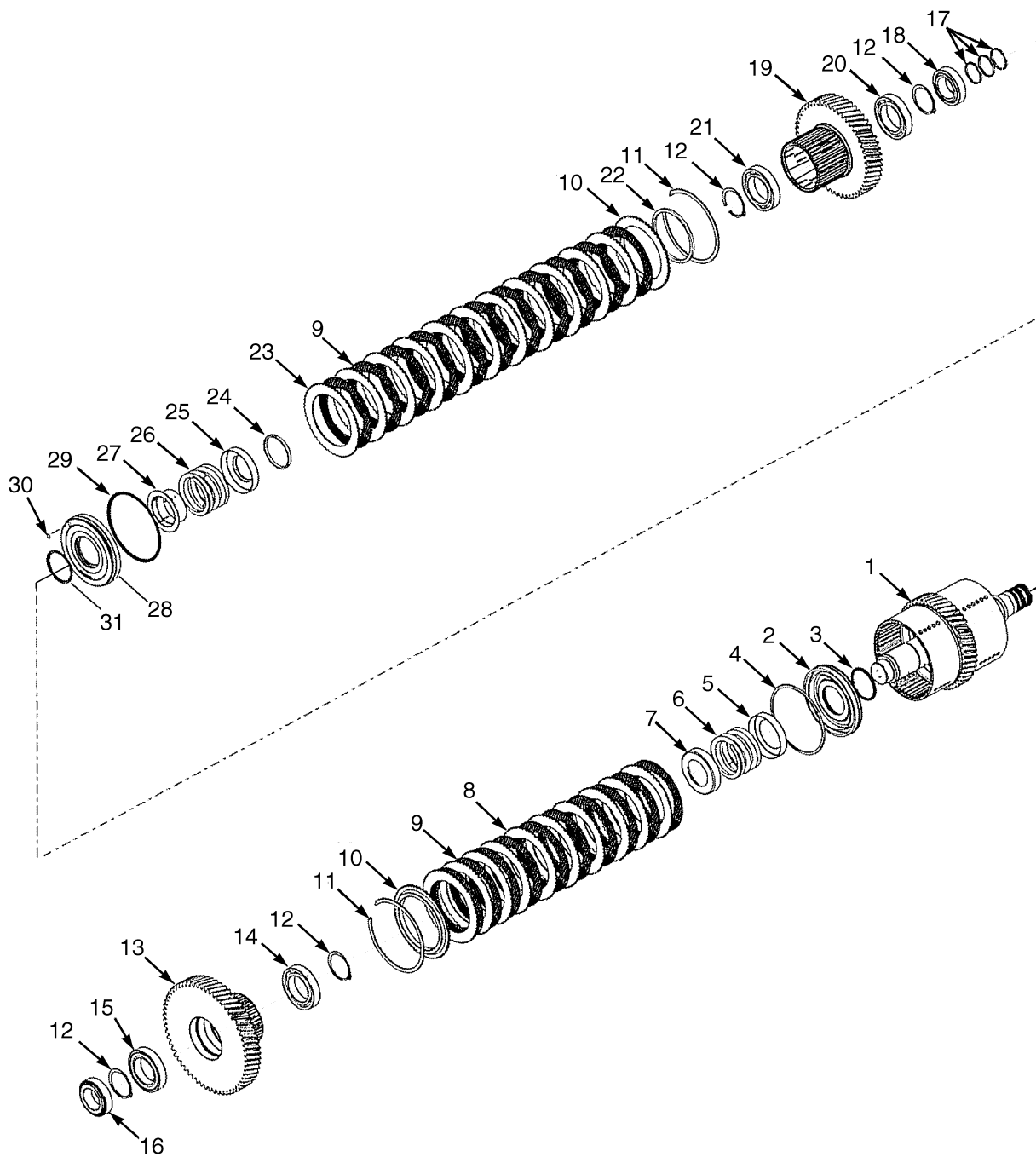


BP080832

TRANSMISSION ASSEMBLY
TWO SPEED – SHEET 2 OF 2 (S/N J006V02110G →)

ITEM	PART NO.	DESCRIPTION	QTY
	1699927	Transmission Assy (Two Speed)	1
1	1707798	Transmission Housing	1
2	1655515	Plug	5
3	1655521	Plug	1
4	60653	O-Ring	1
5	87281	O-Ring	3
6	1655459	Plug	4
7	60653	O-Ring	4
8	1655517	Spool	1
9	1655518	Spring	1
10	1624368	Plug	1
11	1612905	O-Ring	1
12	1557007	Plug	4
13	1557008	O-Ring	4
14	14594	Plug	2
15	16483	O-Ring	2
16	1655458	Screw	23
17	1556998	Lockwasher	23
18	1655522	Clip	1
19	1556910	Capscrew	2
20	1655468	Plug	1
21	1530732	O-Ring	1

REVERSE CLUTCH (FIGURE 5-17) TWO SPEED TRANSMISSION

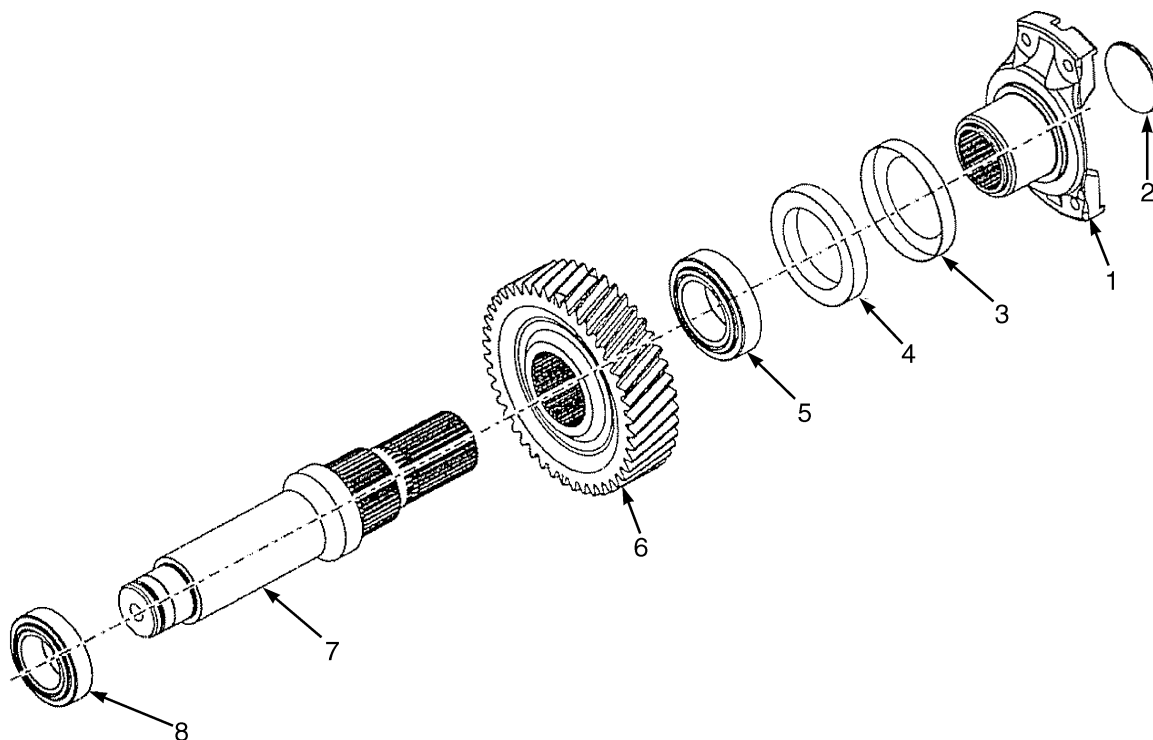


BP240121

**REVERSE CLUTCH
TWO SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1655604	Shaft	1
1	b 1707762	Shaft	1
2	1655546	Clutch Piston	1
3	1655547	Seal	1
4	1311811	Piston Seal	1
5	1655605	Retainer	1
6	1655610	Spring	1
7	1655556	Retainer	1
8	1556965	Separator Plate (Outer)	10
9	1655548	Friction Disk (Inner, High Density)	21
10	1655552	Plate	2
11	1311810	Snap Ring	2
12	1655561	Snap Ring	4
13	1655609	Gear (1st Clutch)	1
14	330590	Bearing	1
15	1312359	Bearing	1
16	b 1707750	Retaining Ring	1
17	1556985	Piston Ring	3
18	1655607	Bearing	2
19	a 1655612	Gear (Reverse Clutch)	1
19	b 1707838	Gear	1
20	1312359	Bearing	1
21	330590	Bearing	1
22	a 1707750	Retaining Ring	1
23	a 1655553	Seal	1
23	b 1707746	Sealing Ring	1
24	1655549	Separator Plate (Outer)	11
25	a 1655601	Snap Ring	1
25	b 1655561	Snap Ring	1
26	1655606	Retainer	1
27	1655554	Spring	1
28	1655555	Retainer	1
29	1655551	Clutch Pack	1
30	1311811	Piston Seal	1
31	1655547	Seal	1
32		Screen	1

FOOTNOTES:**a** → S/N J006V02109G**b** S/N J006V02110G →

OUTPUT SHAFT (FIGURE 5-18)
TWO SPEED TRANSMISSION

BP240122

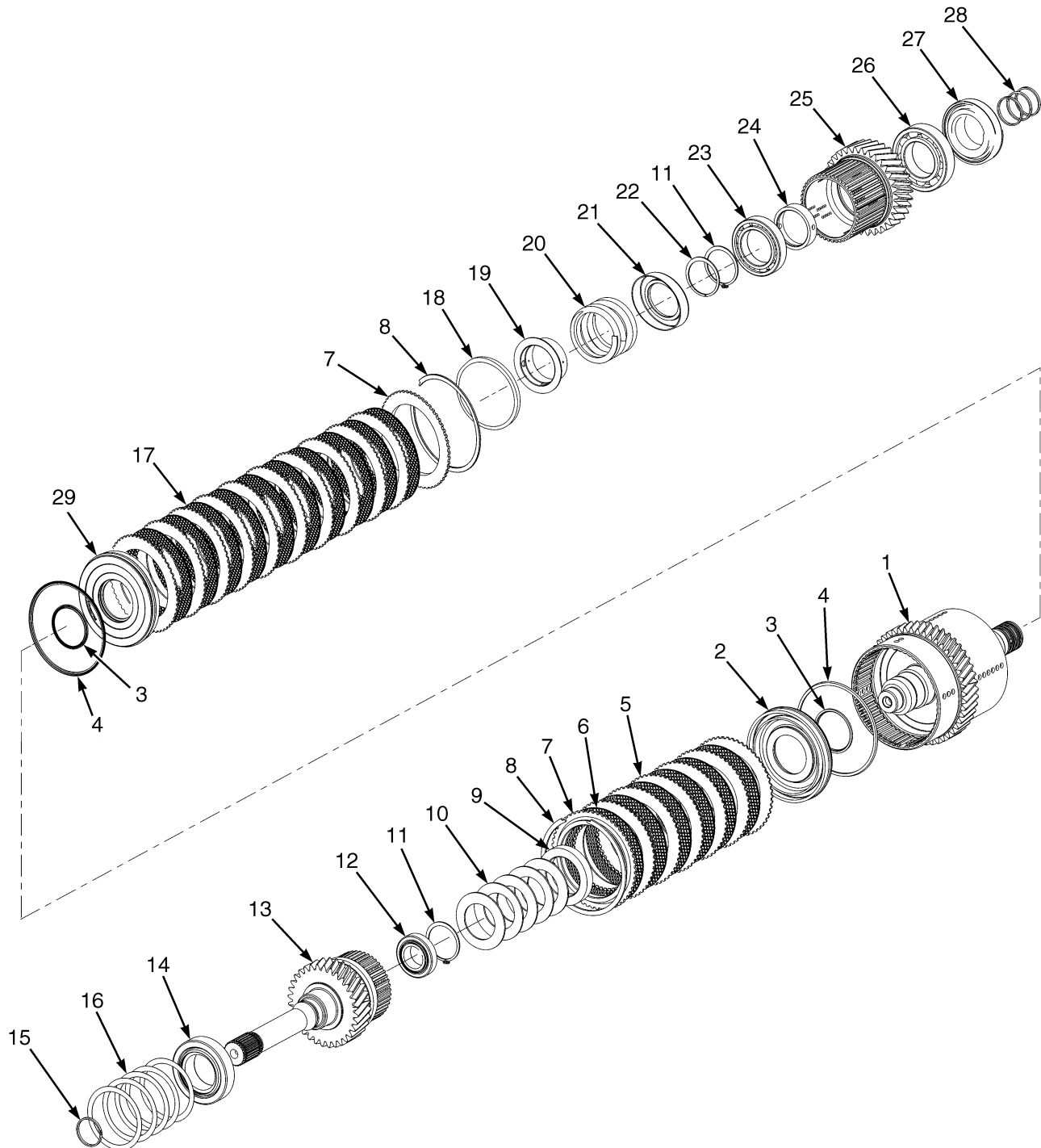
ITEM	PART NO.	DESCRIPTION	QTY
1	a 1694477	Flange	1
1	b 1707769	Flange	1
2	a 1655624	Plug	1
2	b 1707770	Plug	1
3	1655623	Cover	1
4	1655621	Oil Seal	1
5	1655627	Bearing	1
6		Gear	1
7	1694476	Shaft	1
8	1655607	Bearing	1

FOOTNOTES:**a** → S/N J006V02109G**b** S/N J006V02110G →

NOTES

[illegible]

FORWARD CLUTCH LOW (FIGURE 5-19) TWO SPEED TRANSMISSION



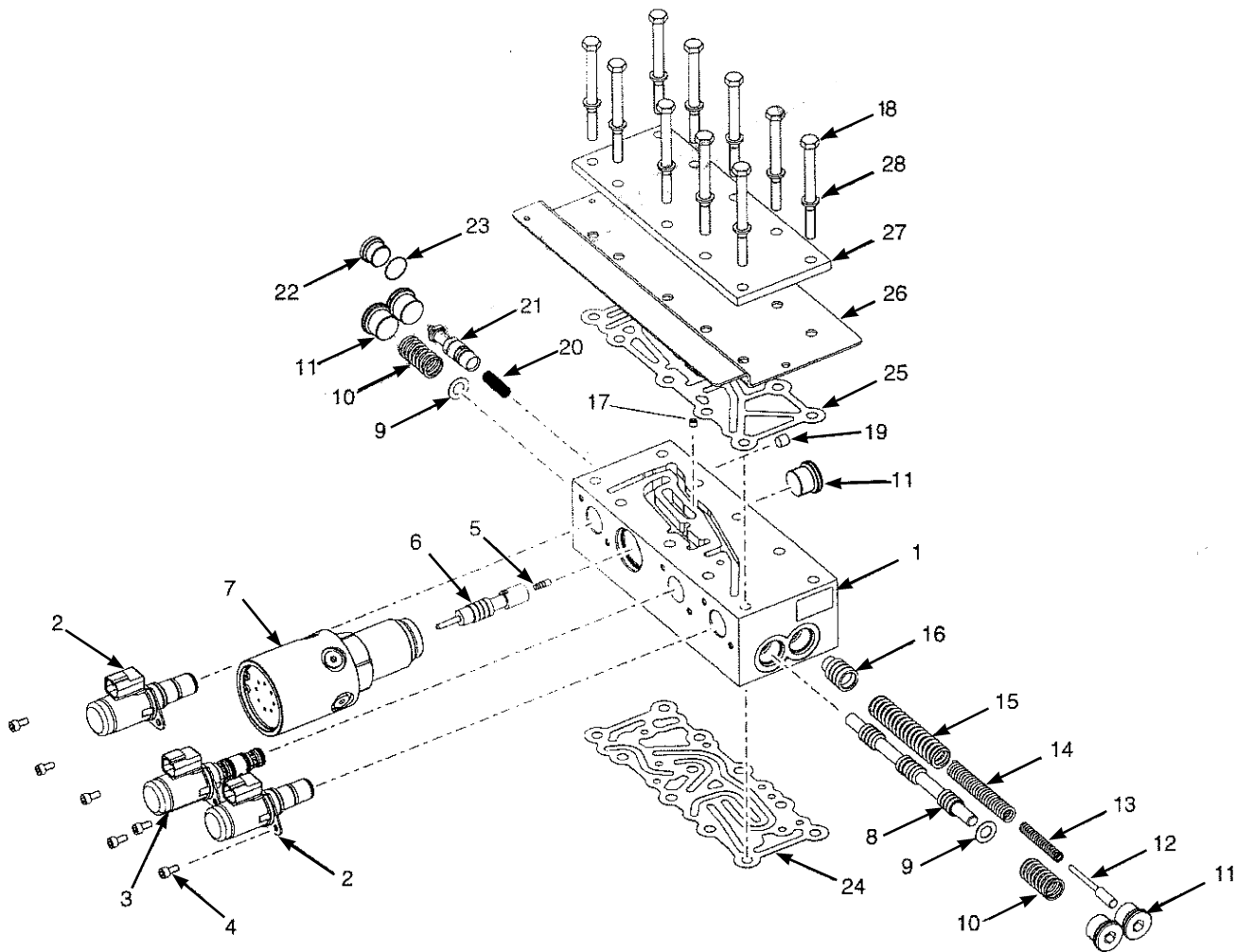
BP240143

**FORWARD CLUTCH LOW
TWO SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1655545	Shaft	1
1	b 1707745	Shaft	1
2	1655546	Clutch Piston	1
3	1655547	Seal	1
4	1311811	Piston Seal	1
5	1655548	Friction Disk (Inner, High Density)	17
6	1556965	Separator Plate (Outer)	6
7	1655552	Plate	2
8	1311810	Snap Ring	2
9	1655558	Spacer	1
10	1655557	Disk Spring	1
11	1655561	Snap Ring	2
12	1655562	Bearing	1
13	1655596	Shaft (Forward)	1
14	1655597	Bearing	1
15	1556985	Piston Ring	1
16	1655598	Shim	AR
16	1655599	Shim	AR
16	1655600	Shim	AR
16	b 1707750	Retaining Ring	AR
17	1655549	Separator Plate (Outer)	11
18	a 1655553	Seal	1
18	b 1707746	Sealing Ring	1
19	1655555	Retainer	1
20	1655554	Spring	1
21	1655556	Retainer	1
22	1655601	Snap Ring	1
23	330590	Bearing	1
24	a 1655560	Spacer	1
24	b 1707748	Spacer	1
25	a 1655602	Gear (Forward Clutch)	1
25	b 1707836	Clutch Gear	1
26	a 1612529	Bearing	1
26	b 1389220	Bearing	1
27	1655550	Bearing	1
28	1556985	Piston Ring	3
29	1707750	Retaining Ring	1
30	1655551	Clutch Pack	1
31	1655547	Seal	1
32	1311811	Piston Seal	1
33		Screen	1

FOOTNOTES:**a** → S/N J006V02109G**b** S/N J006V02110G →

CONTROL VALVE (FIGURE 5-20) TWO SPEED TRANSMISSION

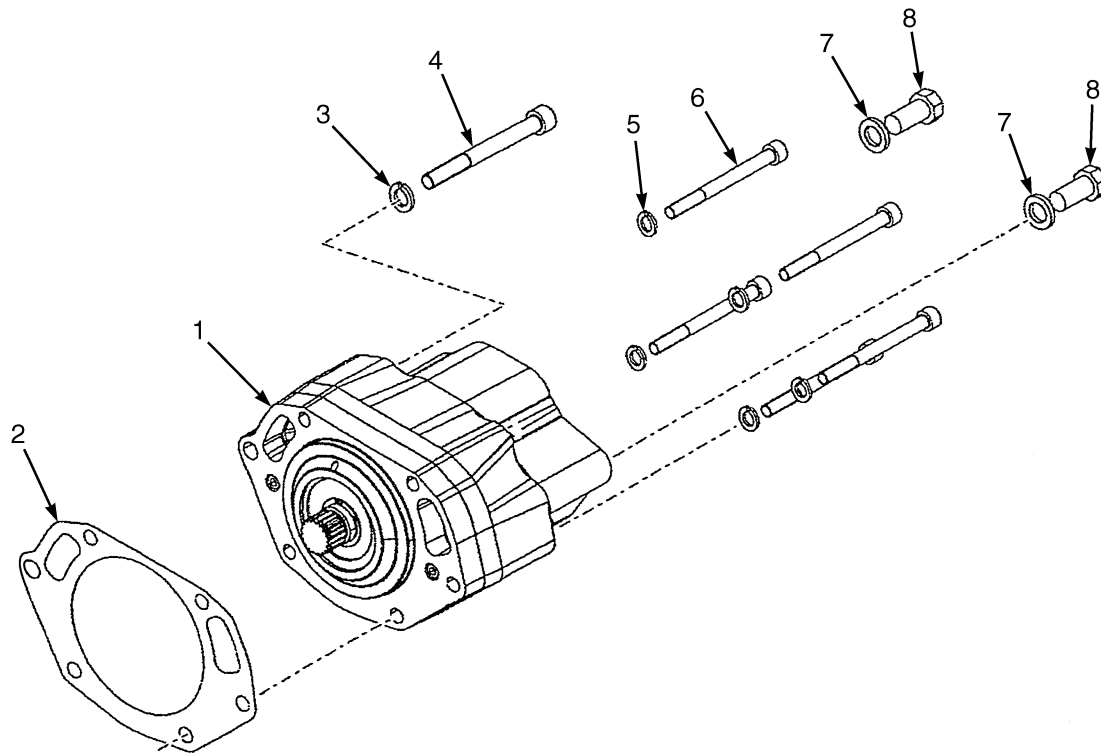


BP240144

**CONTROL VALVE
TWO SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
	1684331	Hydraulic Control Valve	1
2	1655642	Solenoid	2
3	1655645	Solenoid	1
4	1655638	Capscrew	6
5	1659220	Piston (Inching)	1
6	1684332	Spool	1
7	1684333	Inching Valve	1
8	1684334	Spool	1
9	1684335	Spacer	2
10	1684336	Spring	2
11	1684337	Plug	5
12	1684338	Pin	1
13	1684339	Spring	1
14	1659210	Spring	1
15	1684340	Spring	1
16	1684341	Spool	1
17	1684342	Plug	1
18	1557009	Capscrew	10
19	1684343	Plug	1
20	1684344	Spring	1
21	1684345	Spool	1
22	235691	Fitting	1
23	16484	O-Ring	1
24	1684346	Gasket (Body To Transmission Case)	1
25	1684347	Gasket (Cover to Body)	1
26	1684348	Plate (Solenoid Protection)	1
27	1684349	Cover (Control Valve)	1
28	1590532	Lockwasher	10

CHARGE PUMP (FIGURE 5-21)

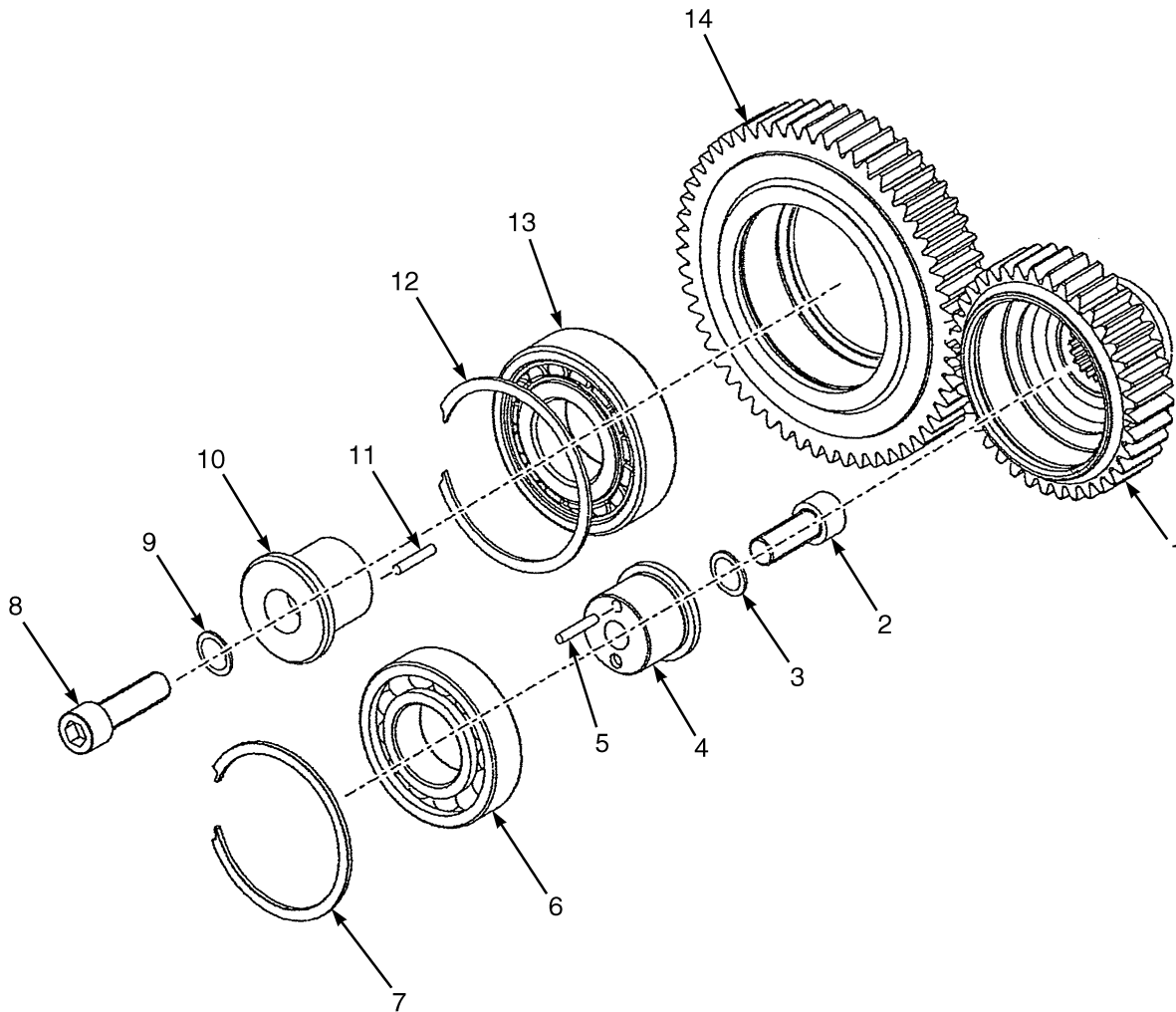


BP240112

ITEM	PART NO.	DESCRIPTION	QTY
1	1655527	Charge Pump	1
2	1655528	Gasket	1
3	1612314	Lockwasher	1
4	1655530	Capscrew	1
5	1590532	Lockwasher	5
6	1655529	Capscrew	5
7	1612870	Lockwasher	2
8	1655531	Capscrew	2

NOTES

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PUMP DRIVE (FIGURE 5-22)

BP240113

PUMP DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
1	1684268	Drive Gear	1
2	1655542	Capscrew	1
3	1624602	Lockwasher	1
4	1655541	Support	1
5	1655543	Pin	1
6	ab 1655539	Ball Bearing	1
6	cd 1707743	Ball Bearing	1
7	1311803	Retaining Ring	1
8	1655536	Screw	1
9	1655537	Lockwasher	1
10	1655535	Support	1
11	1655534	Pin	1
12	1612711	Snap Ring	1
13	1612710	Bearing	1
14	1684266	Idler Gear (Pump Drive)	1

FOOTNOTES:

a → S/N J006V02109G (Two Speed)
b → S/N J006V02222G (Three Speed)

c S/N J006V02110G → (Two Speed)
d S/N J006V02223G →

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

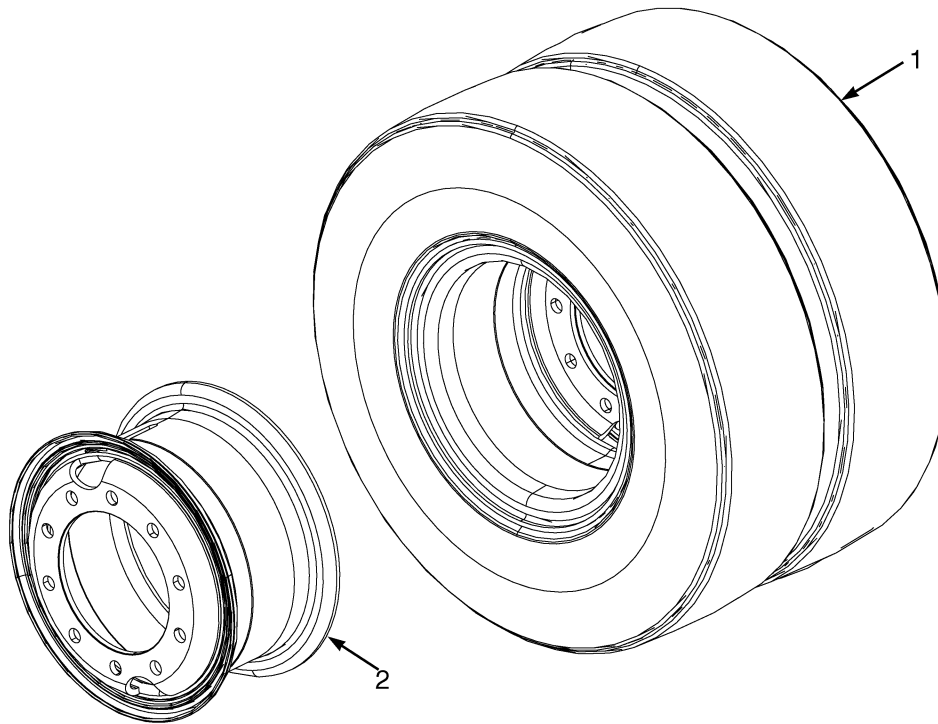
6

DRIVE AXLE

**SECTION 6
DRIVE AXLE**

DESCRIPTION	PAGE
DIFFERENTIAL	6-8
DRIVE AXLE AND ATTACHING PARTS	
WET BRAKE	6-4
DRIVE AXLE HOUSING AND HUB	6-6
DRIVE TIRE AND WHEEL	6-2
WET BRAKE ASSEMBLY	6-10

DRIVE TIRE AND WHEEL (FIGURE 6-1)



BP070060

KEY:

A: 8.25 x 15 Pneumatic

B: 8.25 x 15 Solid Pneumatic

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1656755	Tire (Monarch)	..	4
1	1547352	Tire (Monarch) (Alternate Part)	..	4
1	1547351	Tire (Trell)	4	..
1	1358182	Tire (Radial)	4	..
1	a 1471598	Tubeless Bead Seal	1	1
1	a 1471922	Tubeless Bead Seal Valve	1	1
2	2094200	Wheel Assy	4	4

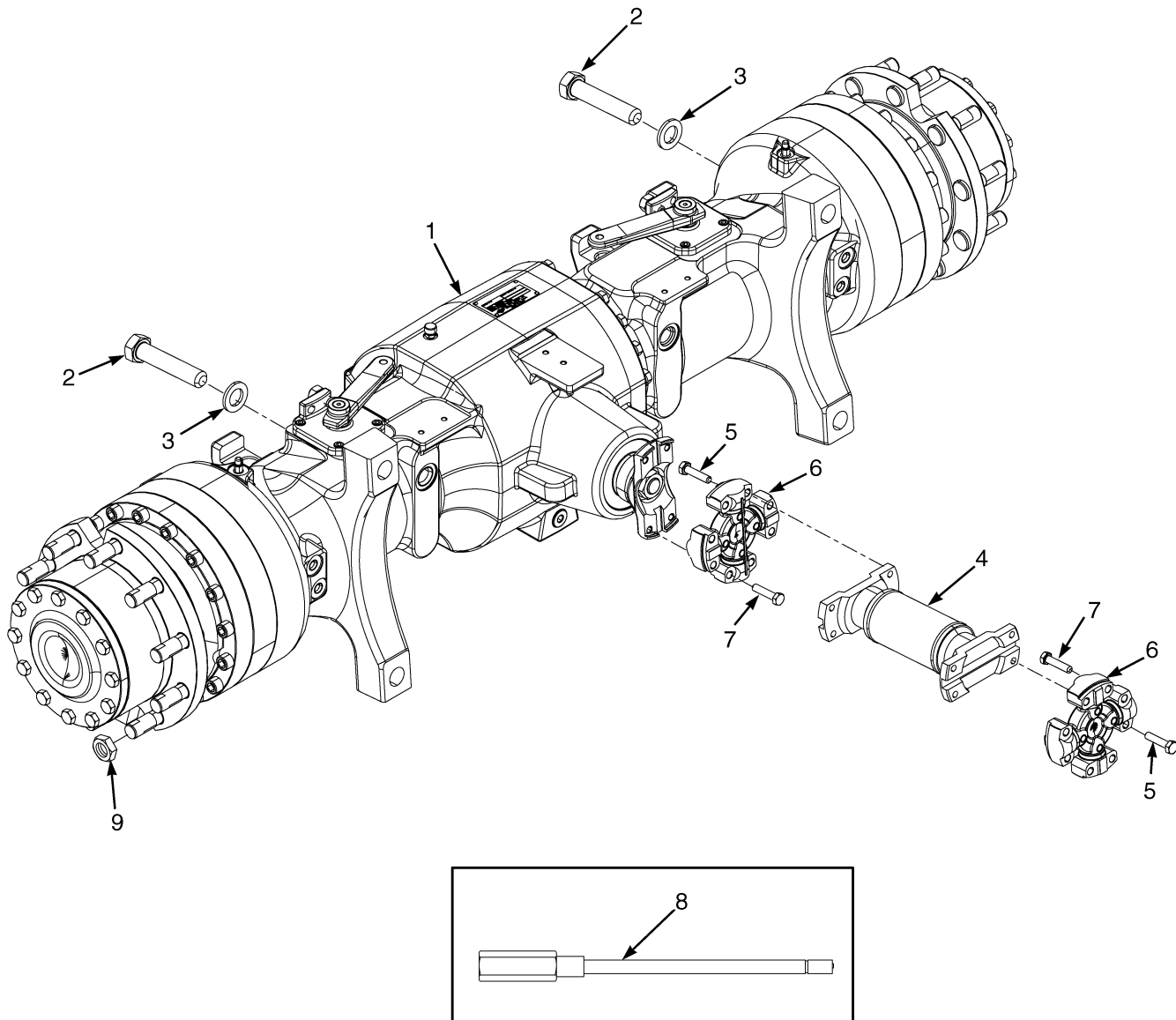
FOOTNOTES:

a Radial Tires Only

NOTES

[illegible]

DRIVE AXLE AND ATTACHING PARTS (FIGURE 6-2) WET BRAKE



BP070056

**DRIVE AXLE AND ATTACHING PARTS
WET BRAKE****KEY:****A: S135FT****B: S155FT**

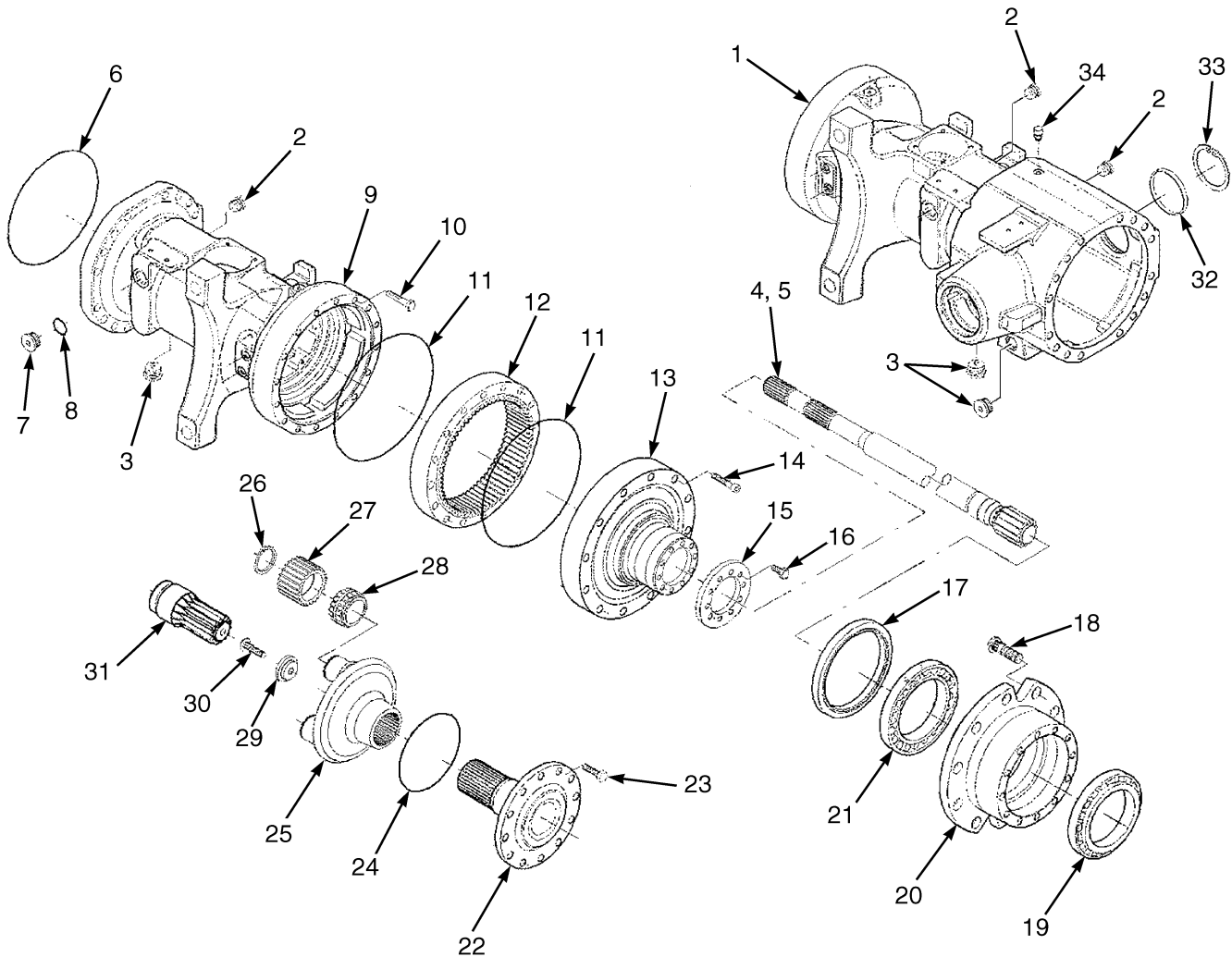
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	ae 2078968	Drive Axle (14.8 Overall Ratio)	1	..
1	d 2078969	Drive Axle (15.4 Overall Ratio)	..	1
2	226430	Capscrew	4	4
3	296434	Washer	4	4
4	1598063	Drive Shaft	1	1
4	1672700	Yoke	1	1
5	1672699	Capscrew	8	8
6	1672695	Gasket	2	2
7	1566514	Capscrew	8	8
8	b 49189	Extension	2	2
8	c 2028341	Extension	2	2
9	376026	Wheel Nut	20	20

FOOTNOTES:

- a** Cummins 3.3L Diesel
b Used with Bias Ply Tires
c Used with Radial Tires

- d** Used with Two and Three Speed Transmissions
e Used with Two Speed Transmissions

DRIVE AXLE HOUSING AND HUB (FIGURE 6-3)

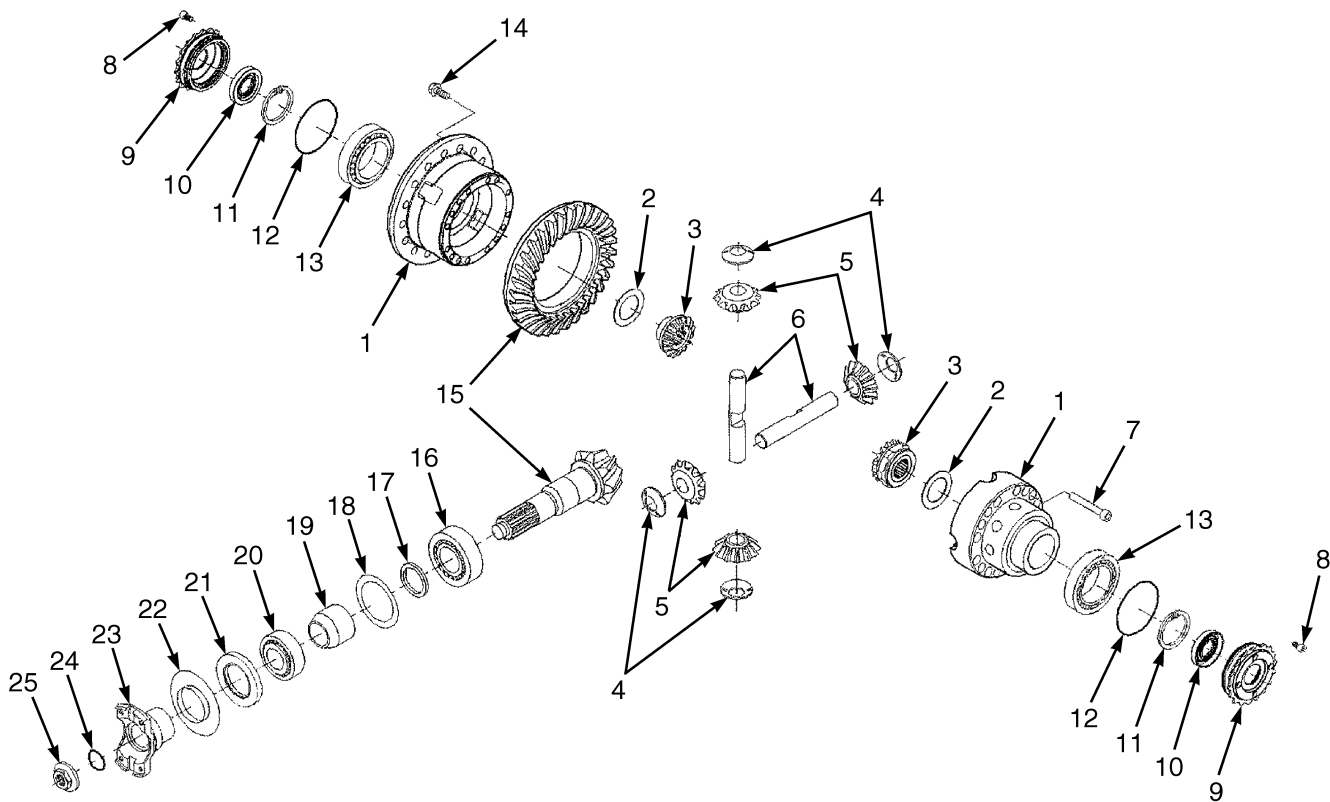


BP070057

DRIVE AXLE HOUSING AND HUB

ITEM	PART NO.	DESCRIPTION	QTY
	2078968	Drive Axle (14.8 Overall Ratio)	1
	2078969	Drive Axle (15.4 Overall Ratio)	1
1	1657746	Drive Axle Housing (RH)	1
2	1623544	Plug	3
3	1623545	Drain Plug	3
4	1657765	Shaft (Short)	1
5	1657766	Shaft (Long)	1
6	1644260	O-Ring	1
7	1641352	Plug	2
8	1623671	O-Ring	2
9	1657767	Drive Axle Housing (LH)	1
10	1657747	Bolt	16
11	1657748	O-Ring	4
12	1657749	Ring Gear	2
13	1657756	Flange	2
14	1657750	Bolt	32
15	1657758	Washer	2
16	1657759	Bolt	20
17	1657751	Ring	2
18	1657754	Stud	20
19	1657757	Bearing	2
20	1657753	Wheel Hub	2
21	1657752	Bearing	2
22	1657760	Shaft (Half)	2
23	1623643	Bolt	24
24	1657755	O-Ring	2
25	1657768	Carrier	2
25		Planetary Gear Carrier	2
26	1644275	Seal (Snap Ring)	6
27	1644276	Gear	6
28	1644277	Bearing	6
29	1657763	Spacer	2
30	1657762	Bolt	2
31	1657761	Pinion	2
32	1644229	Plug	1
33	1612530	Snap Ring	1
34	1623576	Plug (Ventilation)	1

DIFFERENTIAL (FIGURE 6-4)

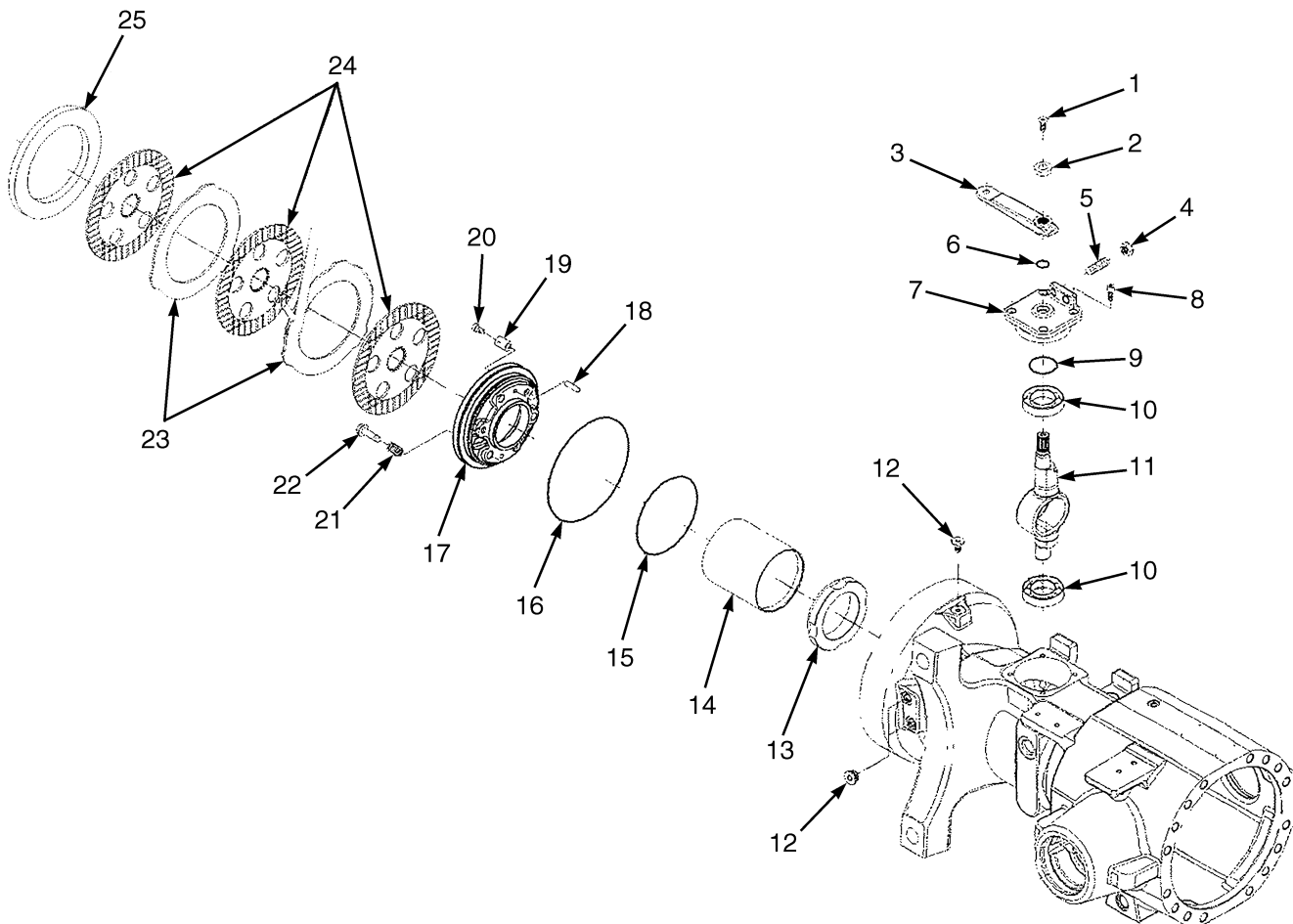


BP070050

DIFFERENTIAL

ITEM	PART NO.	DESCRIPTION	QTY
	2078968	Drive Axle (14.8 Overall Ratio)	1
	2078969	Drive Axle (15.4 Overall Ratio)	1
	1644256	Differential	1
1	1644250	Differential Carrier	1
2	1644251	Washer	2
3	1644252	Gear	2
4	1644254	Washer	4
5	1644255	Pinion	4
6	1644253	Pin	2
7	1644257	Bolt	15
8	1623593	Bolt	2
9	1644246	Nut	2
10	1644247	Seal	2
11	1612530	Snap Ring	2
12	1644245	O-Ring	2
13	1644248	Bearing	2
14	1644249	Bolt	2
15	1644244	Gear and Pinion (14.8 Overall Ratio)	1
15	1644673	Gear and Pinion (15.4 Overall Ratio)	1
16	1644243	Bearing	1
17	1657852	Kit-Shim	1
18	1644238	Shim (0.1 mm)	1
18	1644239	Shim (0.2 mm)	1
18	1644240	Shim (0.5 mm)	1
18	1644241	Shim (0.15 mm)	1
19	1644237	Spacer	1
20	1623573	Bearing	1
21	1644236	Seal	1
22	1644235	Cover Plate	1
23	1644233	Flange	1
24	1644234	O-Ring	1
25	1644232	Nut	1

WET BRAKE ASSEMBLY (FIGURE 6-5)



BP070059

WET BRAKE ASSEMBLY

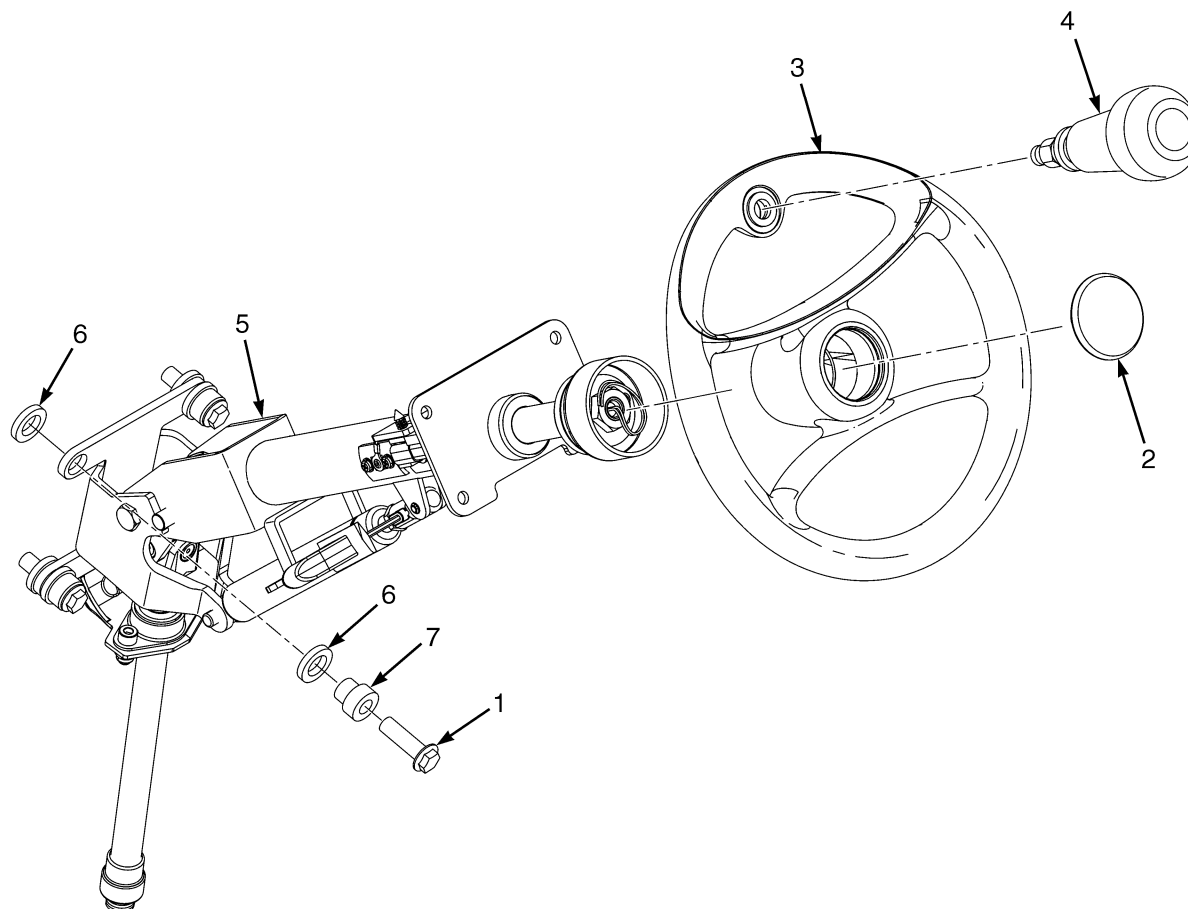
ITEM	PART NO.	DESCRIPTION	QTY
	2078968	Drive Axle (14.8 Overall Ratio)	1
	2078969	Drive Axle (15.4 Overall Ratio)	1
1	1623669	Bolt	2
2	1623694	Spacer	2
3	1657770	Lever	2
4	1623696	Nut	2
5	1657771	Bolt	2
6	1623671	O-Ring	2
7	1657772	Bushing	2
8	1623672	Bolt	8
9	1623673	O-Ring	2
10	1623674	Bearing	4
11	1623675	Lever	2
12	1644305	Bolt	6
13	1627823	Disk	2
14	1657774	Spacer	2
15	1657777	Seal	2
16	1657776	O-Ring	2
17	1657778	Piston	2
18	1644294	Dowel	4
19	1623690	Spring	6
20	1657779	Bolt	6
21	1657773	Spring	6
22	1657782	Bolt	6
23	1657781	Disk (Intermediate)	8
24	1657780	Disk (Friction)	6
25	1657775	Disk	2

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SECTION 7
STEERING SYSTEM

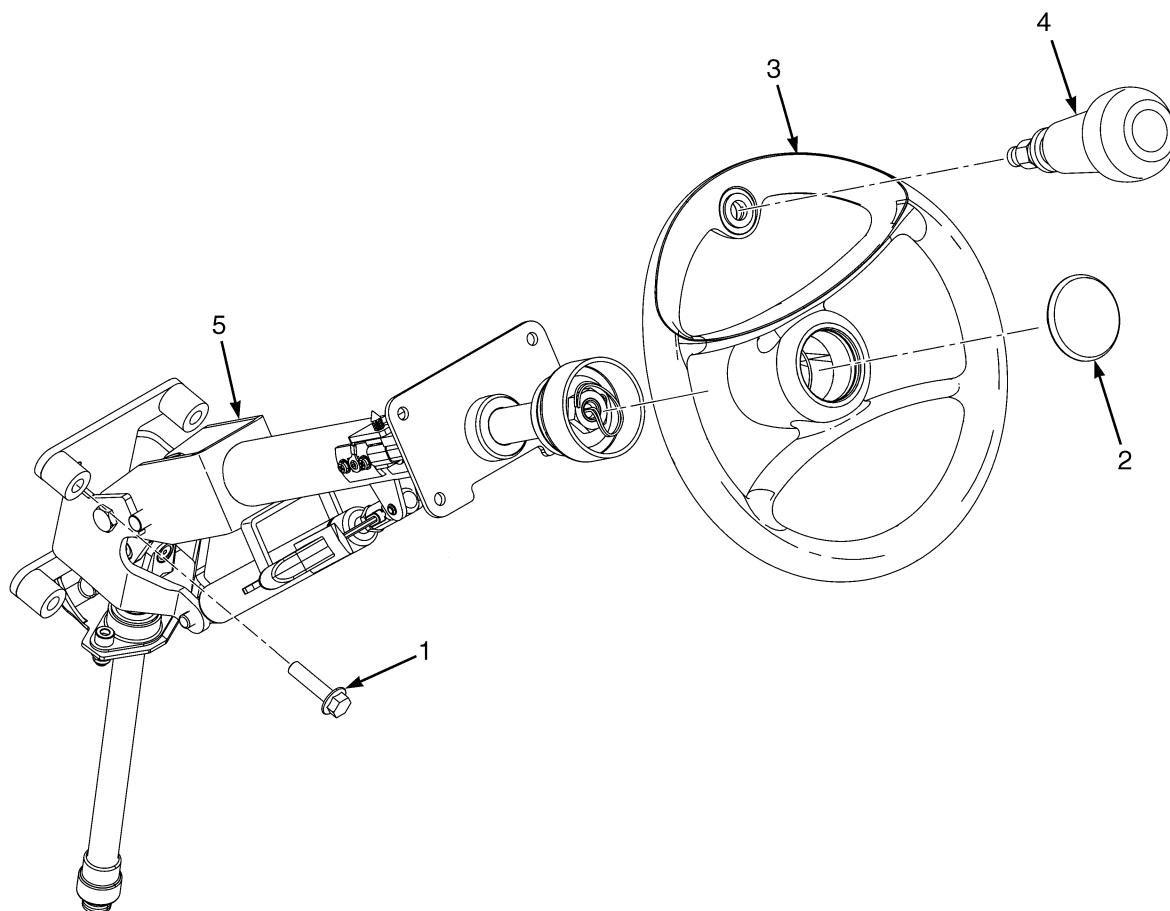
DESCRIPTION	PAGE
STEER AXLE	
→ PENDING PER ECN 105331	7-10
PENDING PER ECN 105331 →	7-14
STEER COLUMN AND ATTACHING PARTS	
DIESEL	7-2
GASOLINE AND LPG	7-3
STEER CYLINDER	
→ PENDING PER ECN 105331	7-17
PENDING PER ECN 105331 →	7-18
STEER TIRE AND WHEEL	7-19
STEERING COLUMN ASSEMBLY	7-4
STEERING CONTROL UNIT	7-6
STEERING LINES	7-8

STEER COLUMN AND ATTACHING PARTS (FIGURE 7-1) DIESEL



HP220499

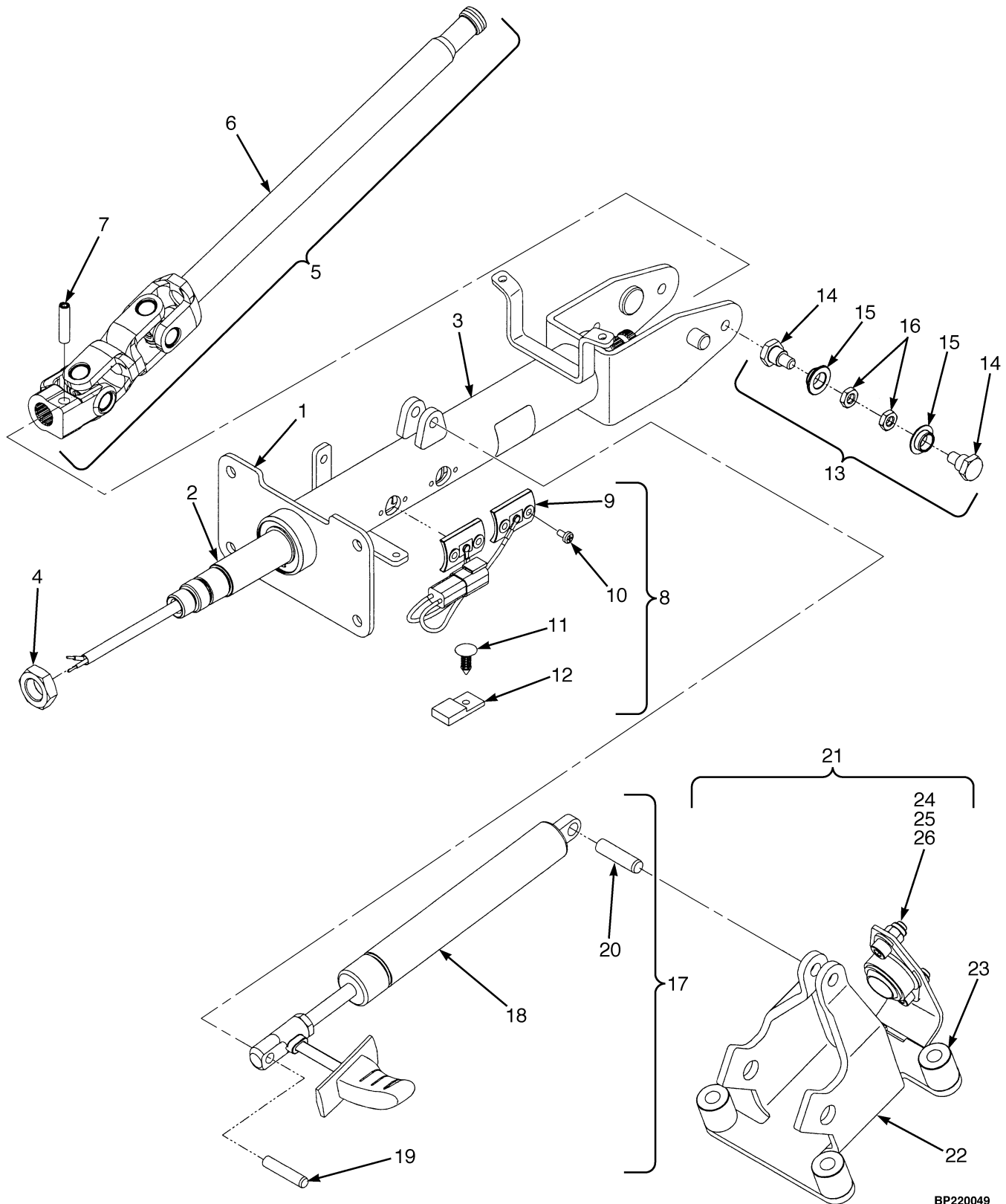
ITEM	PART NO.	DESCRIPTION	QTY
1	1512403	Capscrew	4
2	1608622	Horn Button	1
3	1551839	Steering Wheel (Without Spinner Knob)	1
3	1531563	Steering Wheel	1
4	1586109	Knob	1
5	1657959	Steering Column (☞ Figure 7-3).....	1
6	2079369	Isolator	8
7	1606750	Spacer	4

STEER COLUMN AND ATTACHING PARTS (FIGURE 7-2)
GASOLINE AND LPG

HP220500

ITEM	PART NO.	DESCRIPTION	QTY
1	1512403	Capscrew	4
2	1608622	Horn Button	1
3	1551839	Steering Wheel (Without Spinner Knob)	1
3	1531563	Steering Wheel	1
4	1586109	Knob	1
5	1657962	Steering Column (☞ Figure 7-3).....	1

STEERING COLUMN ASSEMBLY (FIGURE 7-3)

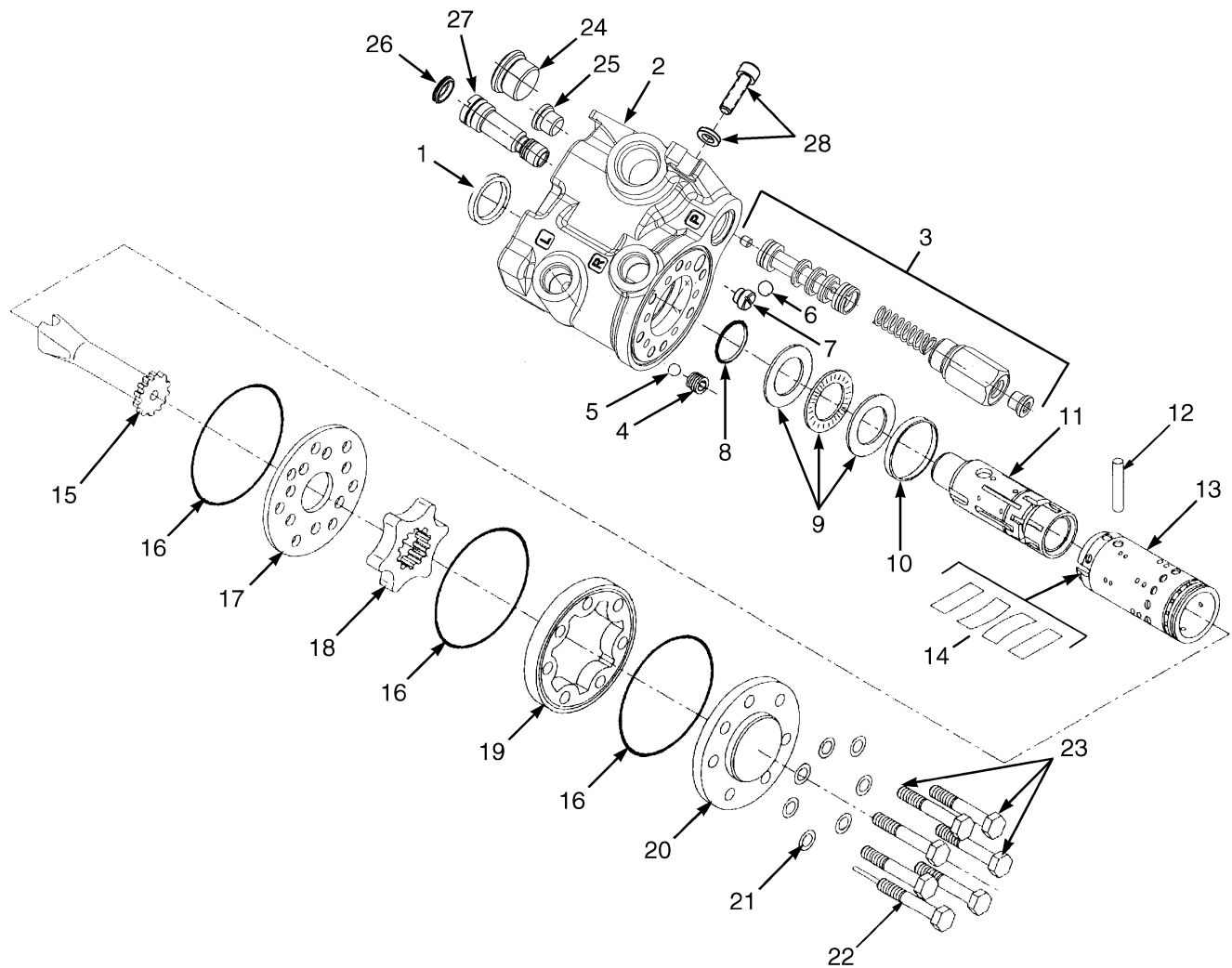


BP220049

STEERING COLUMN ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1657962	Steering Column (Gasoline and LPG)	1
	1657959	Steering Column (Diesel)	1
1	1562489	Kit-Shaft (Upper)	1
1	1647528	Kit-Shaft (Upper)	1
2		Shaft Assembly (Upper)	1
3		Housing	1
4	1562492	Kit-Nut	1
4		Nut	2
5	1562493	Kit-Shaft (Lower)	1
6		Shaft Assembly (Lower)	1
7		Pin	1
8	1562496	Kit-Contact	1
9		Contact Assembly (Horn)	1
10		Screw	4
11		Fastener	1
12		Connector	1
13	1562501	Kit-Pivot (Lower)	1
14		Bolt (Pivot)	2
15		Bushing	2
16		Nut	2
17	1562505	Kit-Gas Spring	1
18		Gas Spring	1
19		Pin	1
20		Pin	1
21	1647530	Kit-Support (Diesel)	1
21	1562509	Kit-Support (Gasoline and LPG)	1
21		Joint	1
22		Support	1
23		Spacer (Gasoline and LPG Only)	4
24		Nut	2
25		Washer	2
26		Screw	2

STEERING CONTROL UNIT (FIGURE 7-4)

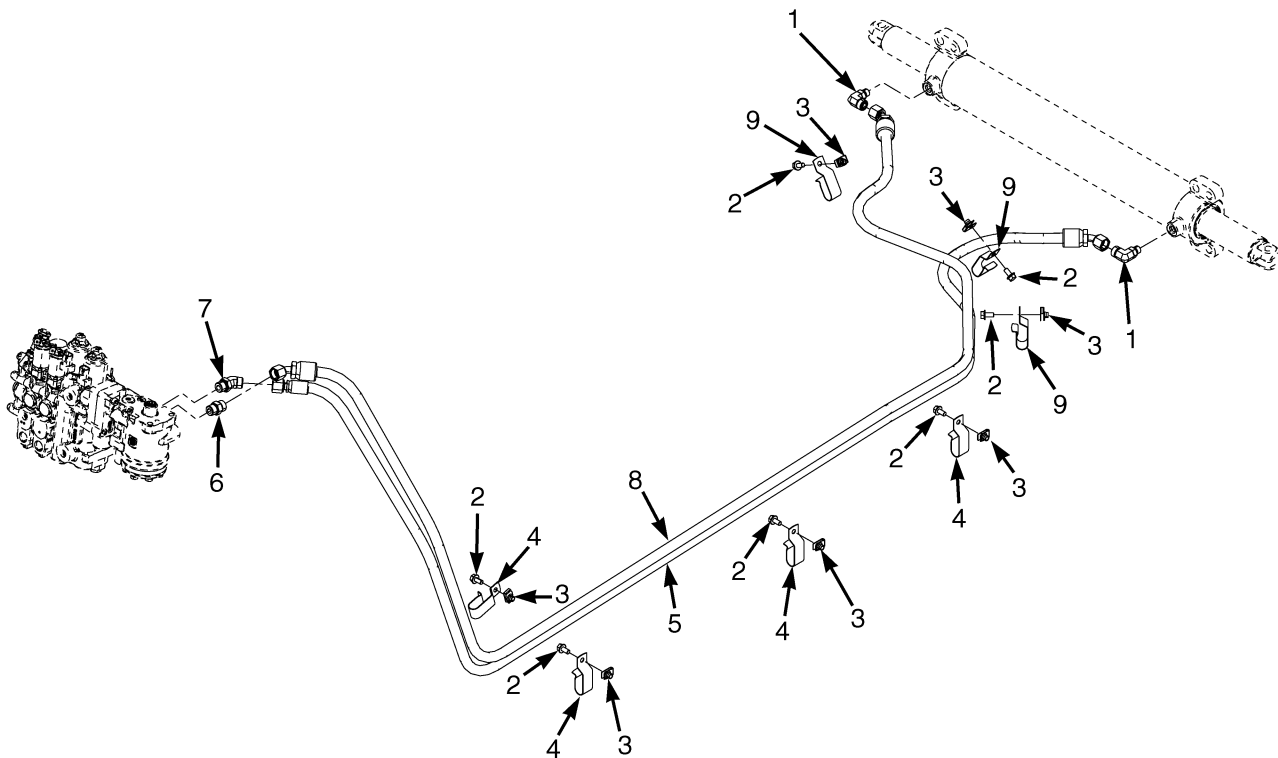


BP220103

STEERING CONTROL UNIT

ITEM	PART NO.	DESCRIPTION	QTY
	2102566	Steering Control Unit (200cc)	1
1		Dust Seal	1
2		Housing	1
3		Relief Valve	1
4		Bushing	1
5		Check Ball	1
6		Check Ball	1
7		Seat	1
8		O-Ring	1
9		Bearing Set	1
10		Ring	1
11		Spool	1
12		Pin	1
13		Sleeve	1
14		Spring Set	1
15		Shaft	1
16		O-Ring	3
17		Plate	1
18		Gear Set	1
19		Gear Ring	1
20		Cover	1
21		Washer	7
22		Special Screw	2
23		Capscrew	5
24		Priority Valve Plug	1
25		Diagnostic Plug (Supply Pressure)	1
26		Cap	1
27		System Relief Valve	1
28		Mounting Bolts	1
	1579908	Kit-Seal	1
	1676606	Kit (Load Sense Alteration Kit)	1

STEERING LINES (FIGURE 7-5)

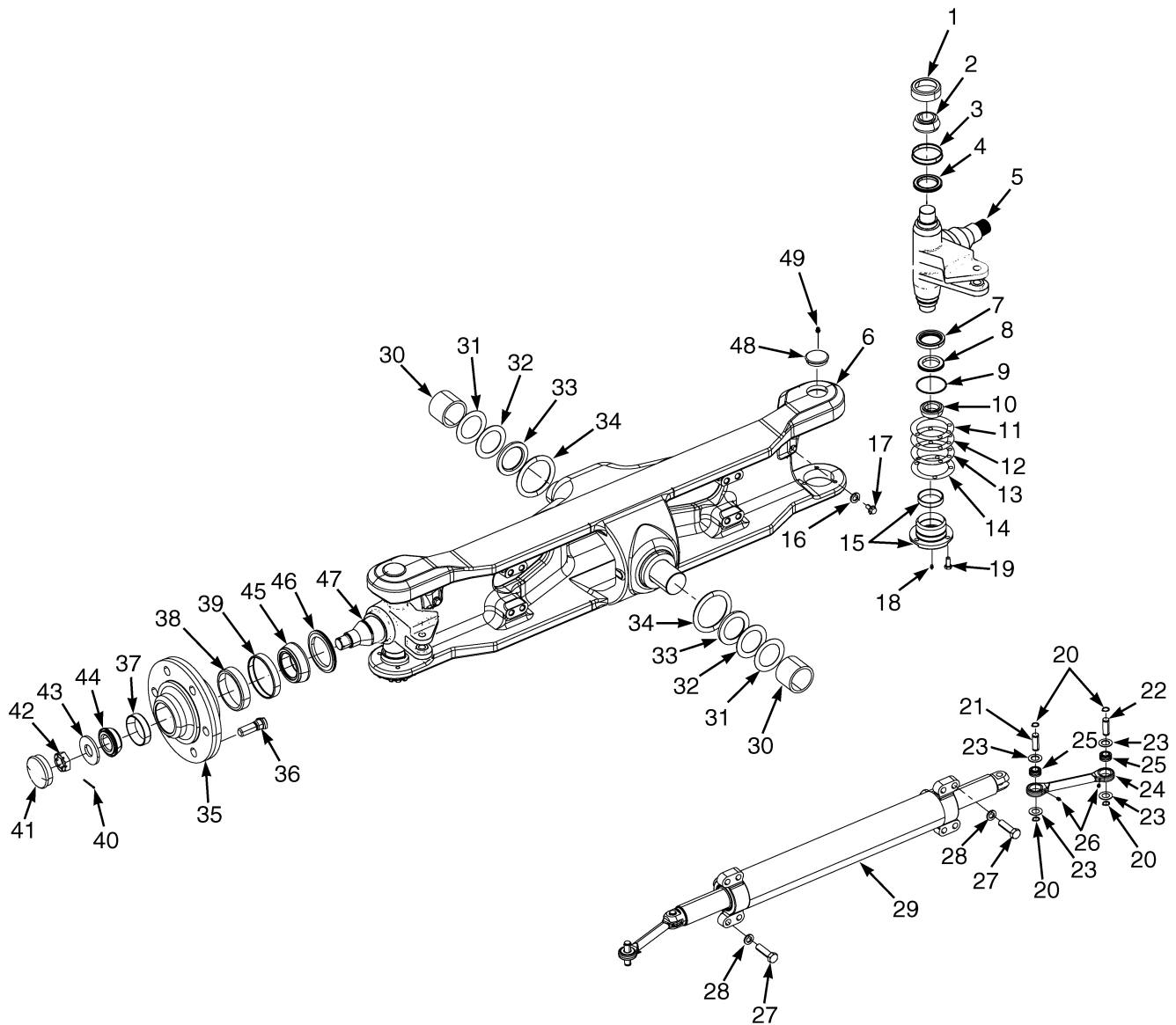


BP220107

STEERING LINES

ITEM	PART NO.	DESCRIPTION	QTY
1	1487064	Fitting	2
1	265731	O-Ring	1
1	16483	O-Ring	1
2	1527879	Capscrew	7
3	1480237	Nut	7
4	1544157	Clip	4
5	2104080	Hose Assy	1
6	1473887	Fitting	1
6	265731	O-Ring	1
6	16484	O-Ring	1
7	1516202	Fitting	1
7	265731	O-Ring	1
7	16484	O-Ring	1
8	2104081	Hose Assy	1
9	1562648	Clip	3

STEER AXLE (FIGURE 7-6) (→ PENDING PER ECN 105331)



BP220104

STEER AXLE
(→ PENDING PER ECN 105331)

ITEM	PART NO.	DESCRIPTION	QTY
	a 1594958	Steering Axle Assy	1
	b 4008484	Steering Axle Assy	1
1	230421	Bearing Cup	2
2	153715	Bearing Cone	2
3	153717	Wear Sleeve	2
4	153716	Seal	2
5	1383795	Spindle (RH)	1
6	a 346299	Steering Axle (Frame)	1
6	b 1696278	Steering Axle (Frame)	1
7	266733	Seal	2
8	266728	Seal	2
9	39678	O-Ring	2
10	135657	Bearing Cone	2
11	185856	Shim (0.005 in.)	3
12	185857	Shim (0.007 in.)	3
13	185858	Shim (0.020 in.)	2
14	1563858	Shim (0.002 in.)	2
15	266612	Bearing Cap (Assembly)	2
15	266735	Bearing Cap	1
15	135658	Bearing Cup	1
16	320159	Washer	2
17	1527883	Capscrew	2
18	13957	Grease Fitting	2
19	293628	Capscrew	6
20	58903	Snap Ring	8
21	1568271	Pin	2
22	1568270	Pin	2
23	1345684	Seal	8
24	a 1568078	Tie Rod (Assembly)	1
24	a 1392255	Tie Rod	1
24	b 1671218	Tie Rod Assembly	1
24	b 1670786	Tie Rod (Fabricated)	1
24	1703337	Tie Rod (Cast, Optional)	1
25	1568039	Spherical Roller Bearing	1
26	13957	Grease Fitting	2
27	293688	Capscrew	8
28	292685	Lockwasher	8
29	2079365	Steering Cylinder (☞ Figure 7-8).....	1
30	1335873	Bushing	2
31	131191	Shim (0.040 in.)	AR
32	131190	Shim (0.110 in.)	AR
33	1335870	Flange	2
34	131193	Sealing Ring	2
35	1603898	Wheel Hub	2
36	1393348	Wheel Stud	12
37	153834	Bearing Cup	2
38	230324	Bearing Cup	2
39	129499	Wear Sleeve	2
40	15225	Cotter Pin (1-1/2 in.)	2
40	15226	Cotter Pin (Optional 1-3/4 in.)	1

STEER AXLE
(→ PENDING PER ECN 105331)

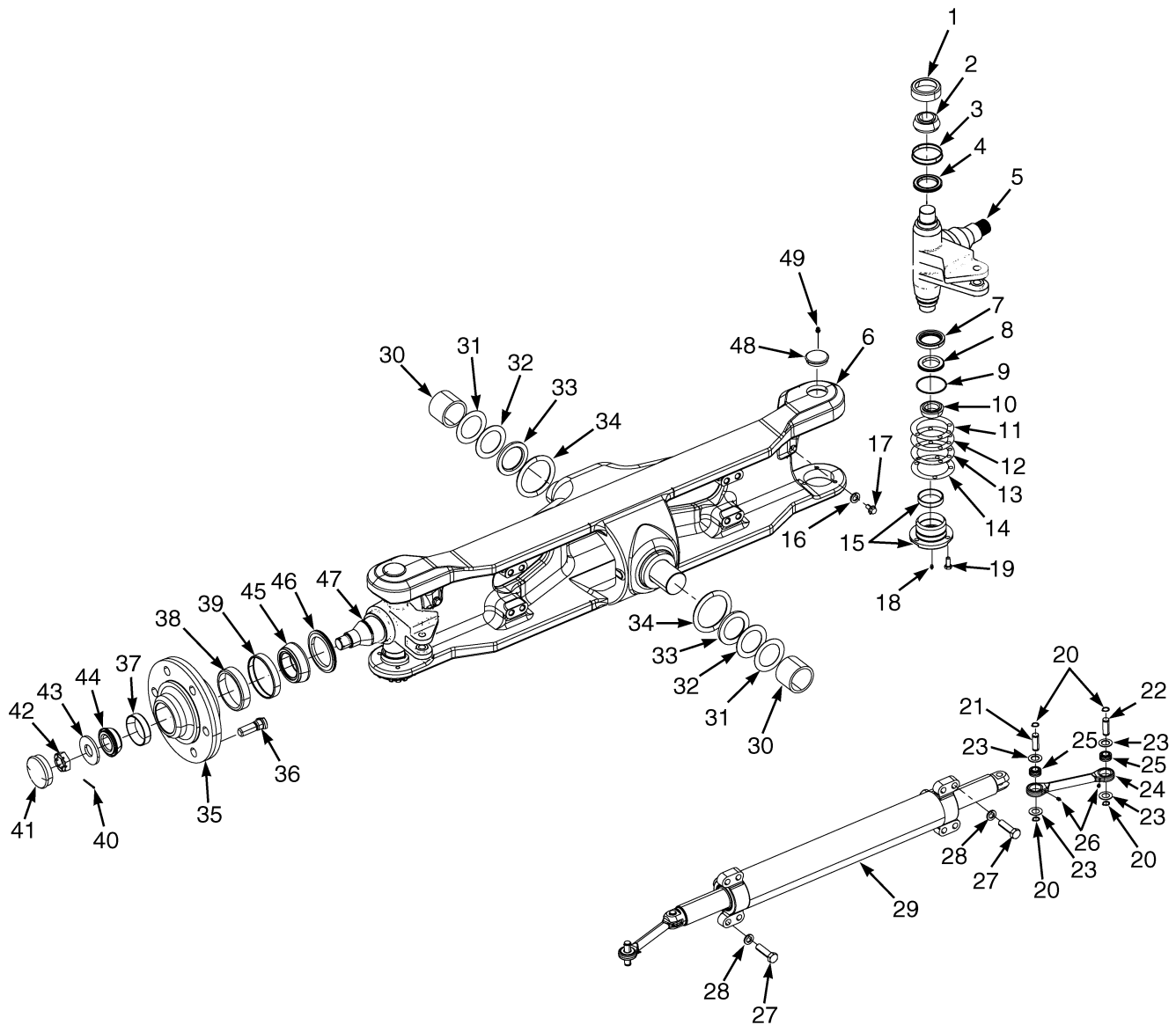
ITEM	PART NO.	DESCRIPTION	QTY
41	69029	Cap	2
42	53641	Wheel Nut	2
43	1383775	Washer	2
44	153835	Bearing Cone	2
45	230325	Bearing Cone	2
46	129498	Seal	2
47	1383797	Spindle (LH)	1
48	185860	Plug	2
49	13963	Grease Fitting	2
	2064554	Loctite	AR

FOOTNOTES:**a** → S/N J006V02208G**b** S/N J006V02209G →

NOTES

[illegible]

STEER AXLE (FIGURE 7-7) (PENDING PER ECN 105331 →)



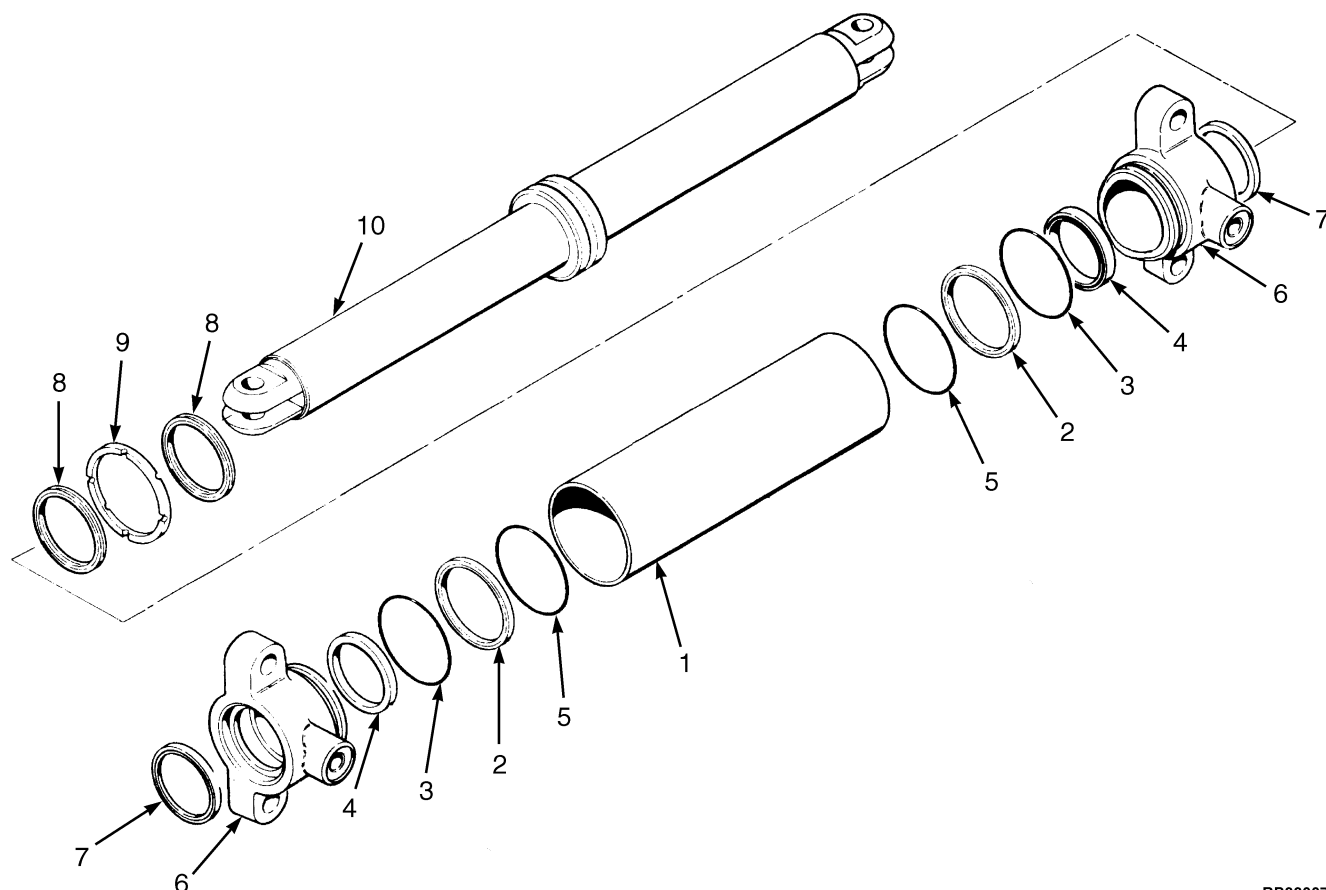
BP220104

STEER AXLE
(PENDING PER ECN 105331 →)

ITEM	PART NO.	DESCRIPTION	QTY
	1677244	Steering Axle	1
1	230421	Bearing Cup	2
2	153715	Bearing Cone	2
3	153717	Wear Sleeve	2
4	153716	Seal	2
5	1676424	Spindle (RH)	1
6	1696278	Steering Axle (Frame)	1
7	266733	Seal	2
8	266728	Seal	2
9	39678	O-Ring	2
10	135657	Bearing Cone	2
11	185856	Shim (0.005 in.)	3
12	185857	Shim (0.007 in.)	3
13	185858	Shim (0.020 in.)	2
14	1563858	Shim (0.002 in.)	2
15	266612	Bearing Cap (Assembly)	2
15	266735	Bearing Cap	1
15	135658	Bearing Cup	1
16	320159	Washer	2
17	1527883	Capscrew	2
18	13957	Grease Fitting	2
19	293628	Capscrew	6
20	12929	Snap Ring	8
21	1673482	Pin	2
22	1673481	Pin	2
23	1345684	Seal	8
24	1673444	Tie Rod	2
25	1671760	Bushing	2
26	13957	Grease Fitting	2
27	293688	Capscrew	8
28	292685	Lockwasher	8
29	2108963	Steering Cylinder (☞ Figure 7-9).....	1
30	1335873	Bushing	2
31	131191	Shim (0.040 in.)	AR
32	131190	Shim (0.110 in.)	AR
33	1335870	Flange	2
34	131193	Sealing Ring	2
35	1603898	Wheel Hub	2
36	1393348	Wheel Stud	12
37	153834	Bearing Cup	2
38	230324	Bearing Cup	2
39	129499	Wear Sleeve	2
40	15225	Cotter Pin	2
41	69029	Cap	2
42	53641	Wheel Nut	2
43	1383775	Washer	2
44	153835	Bearing Cone	2
45	230325	Bearing Cone	2
46	129498	Seal	2
47	1676423	Spindle (LH)	1

STEER AXLE
(PENDING PER ECN 105331 →)

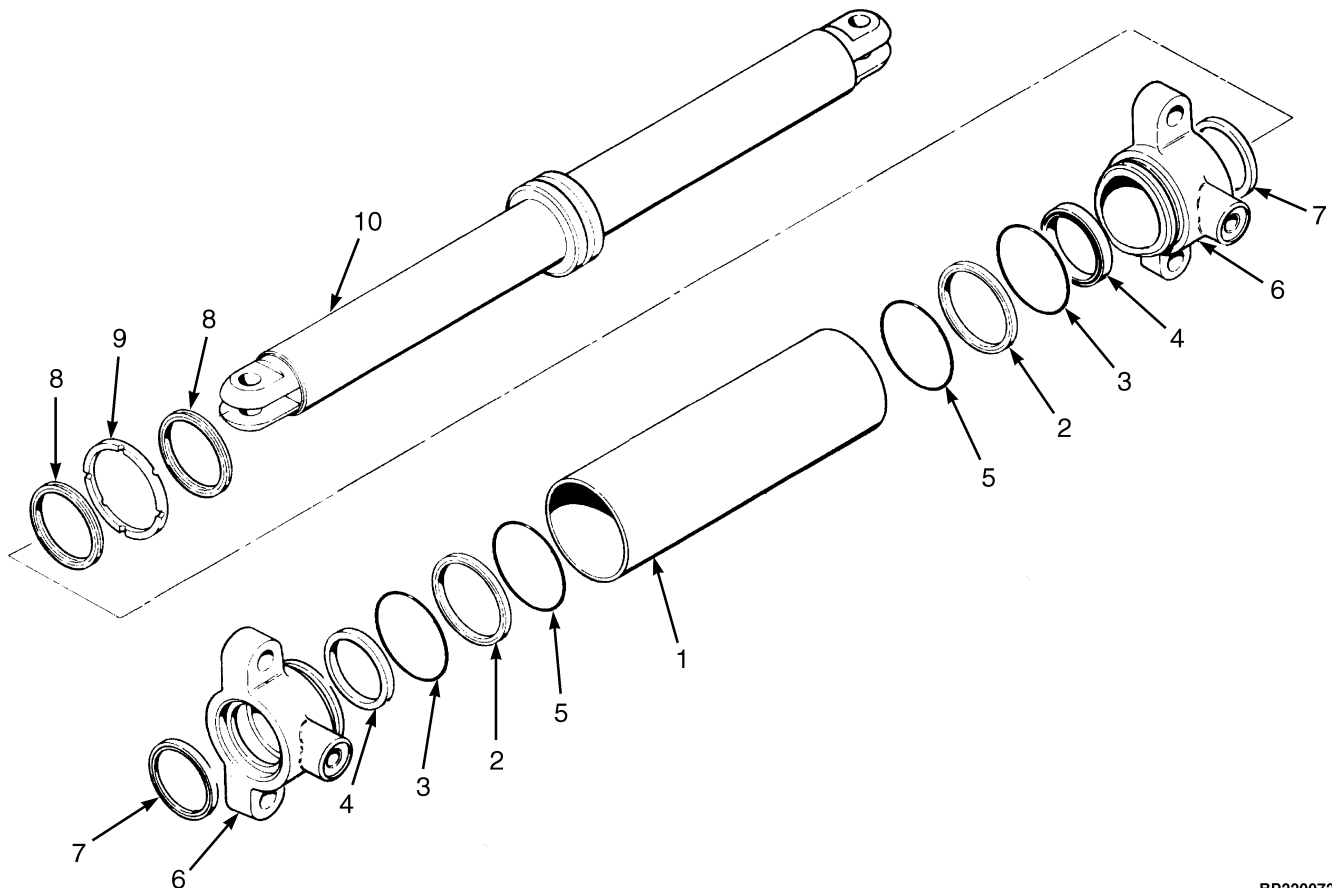
ITEM	PART NO.	DESCRIPTION	QTY
48	185860	Plug	2
49	13963	Grease Fitting	2
	2064554	Loctite	AR

STEER CYLINDER (FIGURE 7-8)
(→ PENDING PER ECN 105331)

BP220072

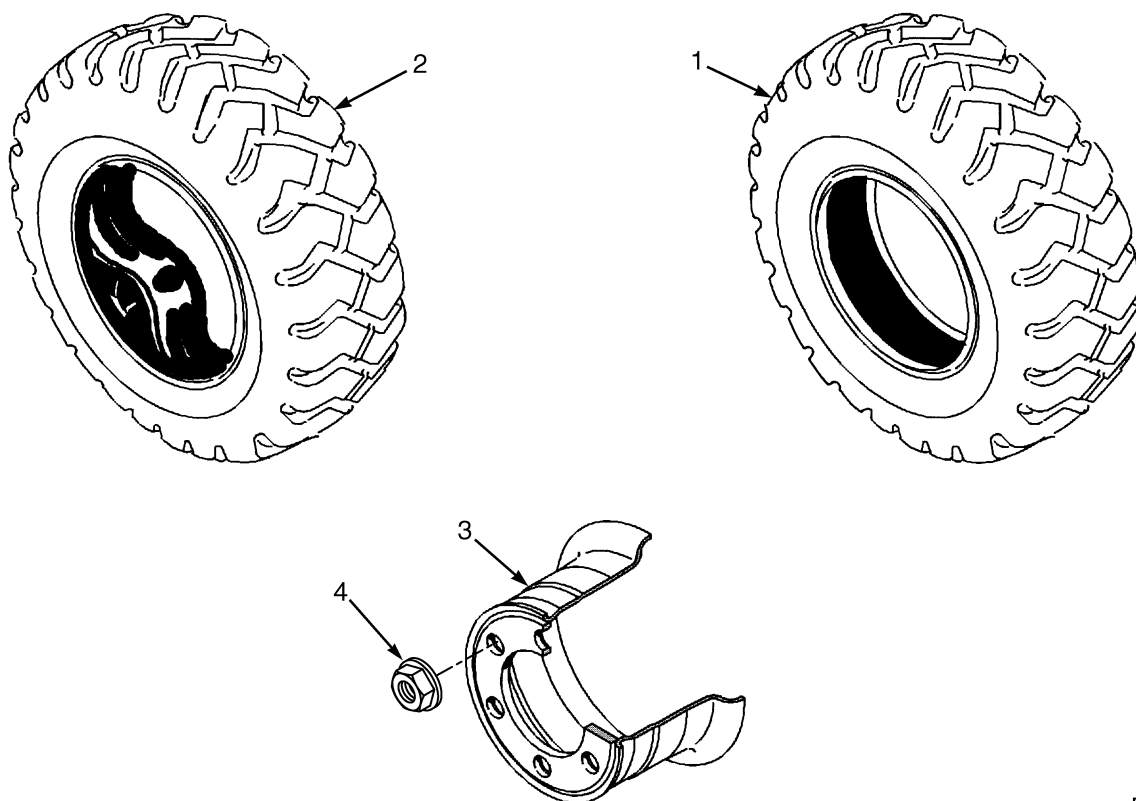
ITEM	PART NO.	DESCRIPTION	QTY
	2079365	Steering Cylinder	1
1	344391	Tube Wldmt-Cylinder	1
2	154358	Back-Up Ring	2
3	39679	O-Ring	2
4	1380092	Rod Seal	2
5	15880	O-Ring	2
6	1594137	End Cap	2
7	2071094	Rod Wiper	2
8	1611065	Wear Ring	2
9	2046765	Seal	2
10	1611062	Piston Rod	1
	1626361	Kit-Seal	1
	1708573	Kit-Seal (Alternate Part)	1

STEER CYLINDER (FIGURE 7-9) (PENDING PER ECN 105331 →)



BP220072

ITEM	PART NO.	DESCRIPTION	QTY
	2108963	Steering Cylinder	1
1	344391	Tube Wldmt-Cylinder	1
2	154358	Back-Up Ring	2
3	39679	O-Ring	2
4	1380092	Rod Seal	2
5	15880	O-Ring	2
6	1594137	End Cap	2
7	2071094	Rod Wiper	2
8	1611065	Wear Ring	2
9	2046765	Seal	2
10	1683373	Cylinder Rod	1
	1708573	Kit-Seal	1

STEER TIRE AND WHEEL (FIGURE 7-10)

BP220106

KEY:**A:** 8.25 x 15-14 PR**B:** 8.25 x 15 Solid Pneumatic**C:** 8.25 R15 Radial

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	b 1656755	Tire (Monarch)	..	2	..
1	a 1547352	Tire (Monarch) (Alternate Part)	..	2	..
1	1547351	Tire (Trell)	2	..	..
2	1471838	Pneumatic Tire	..	..	2
2	1471598	Tubeless Bead Seal	..	..	1
2	1471922	Tubeless Bead Seal Valve	..	..	1
3	2094201	Wheel Assy	2	2	2
4	376026	Wheel Nut	12	12	12

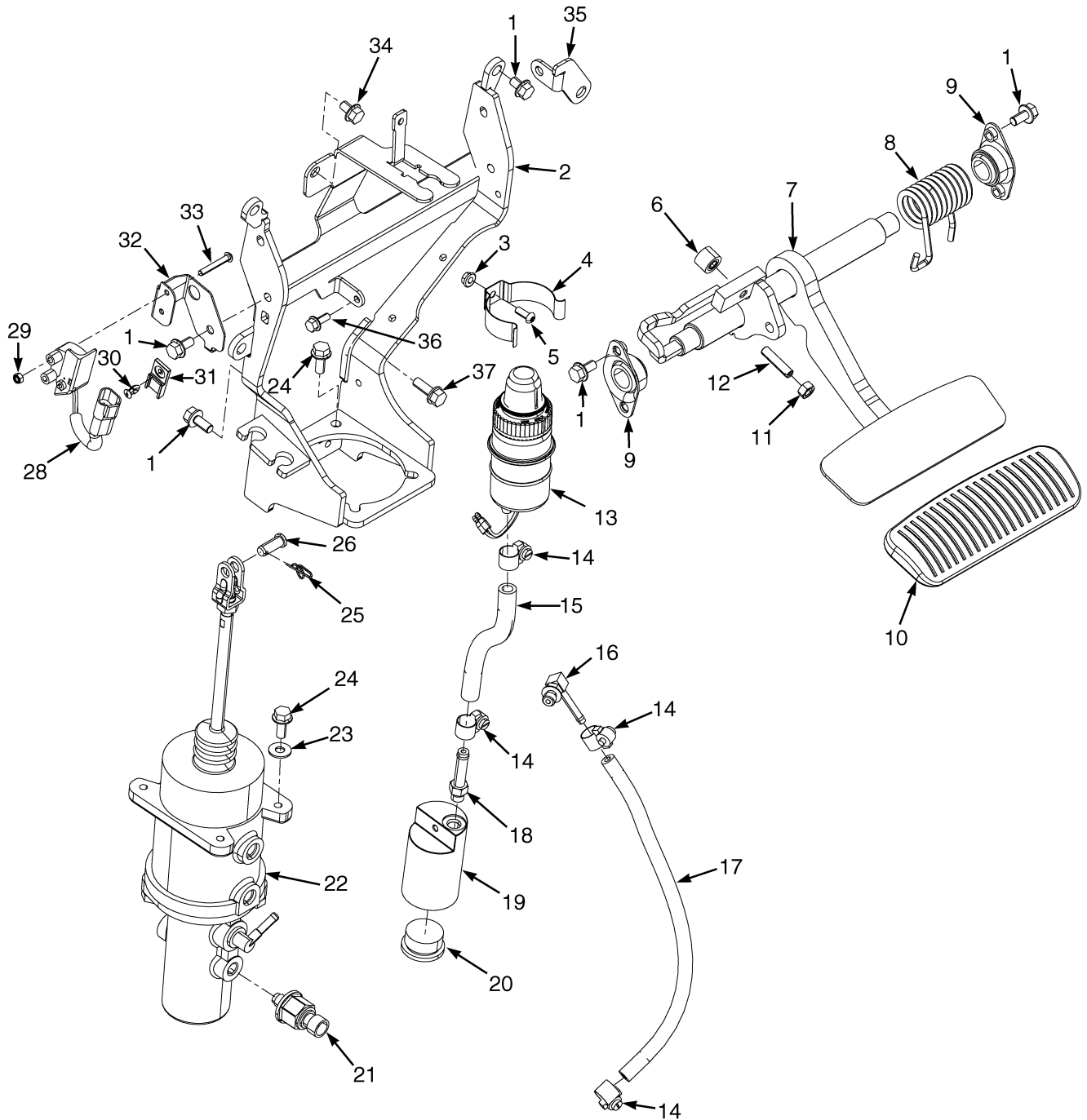
FOOTNOTES:**a** Soft Ride**b** Standard Hardness

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**SECTION 8
BRAKE SYSTEM**

DESCRIPTION	PAGE
BRAKE COOLING SYSTEM	
SINGLE AND DUAL PEDAL	8-12
BRAKE PEDAL LINKAGE AND MASTER CYLINDER	
DUAL PEDAL	8-6
SINGLE PEDAL	8-2
PARK BRAKE ASSEMBLY	8-10

BRAKE PEDAL LINKAGE AND MASTER CYLINDER (FIGURE 8-1) SINGLE PEDAL



BP040101

**BRAKE PEDAL LINKAGE AND MASTER CYLINDER
SINGLE PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1527879	Capscrew	6
2	1661156	Bracket	1
3	1514429	Nut	1
4	2021353	Holder	1
5	1510126	Screw (Button Head)	1
6	1556475	Bumper	1
7	1649656	Pedal	1
7	1707012	Brake Pedal (Alternate Part)	1
8	1568075	Spring (RH)	1
9	1585575	Bushing	2
10	1570298	Rubber Pad	1
11	239503	Nut	1
12	1534871	Bolt	1
13	1646439	Reservoir	1
13	2077604	Tank	1
13	1645381	Diaphragm	1
13	1646397	Cap	1
14	166857	Clamp	4
15	2092888	Hose	1
16	222509	Fitting	1
16	16481	O-Ring	1
17	117989	Hose (Brake Feed)	1
18	222491	Fitting	1
18	16481	O-Ring	1
19	2092613	Cylinder Block	1
20	233683	Fitting	1
20	16487	O-Ring	1
21	1590033	Transducer	1
22	1605266	Master Cylinder	1
22	1672003	Brake Booster	1
22	1672004	Master Cylinder	1
22	1672005	Kit-Repair Master Cylinder (Major)	1
22	1672006	Kit-Repair Master Cylinder (Minor)	1
23	1581851	Washer	2
24	1527880	Capscrew	4
25	1351689	Lockring	1
26	1375391	Pin (Rod End)	1
27	1608654	Capscrew	2
28	1547849	Sensor (Brake Position) (Inching)	1
28	1547849	Sensor (Brake Position) (Alternate Part)	1
29	302398	Locknut	2
30	1564526	Clip (Key Hole)	1
30	292668	Nut (Alternate Part)	2
31	1500912	Clip	1
31	1704902	Capscrew (Alternate Part)	1
32	1531567	Bracket (Inching Sensor)	1
32	1688503	Mount (Inching Sensor)(Alternate Part)	1
33	1553897	Capscrew	2
33	1701768	Screw (Button Head) (Alternate Part)	2
34	1529366	Capscrew	1

**BRAKE PEDAL LINKAGE AND MASTER CYLINDER
SINGLE PEDAL**

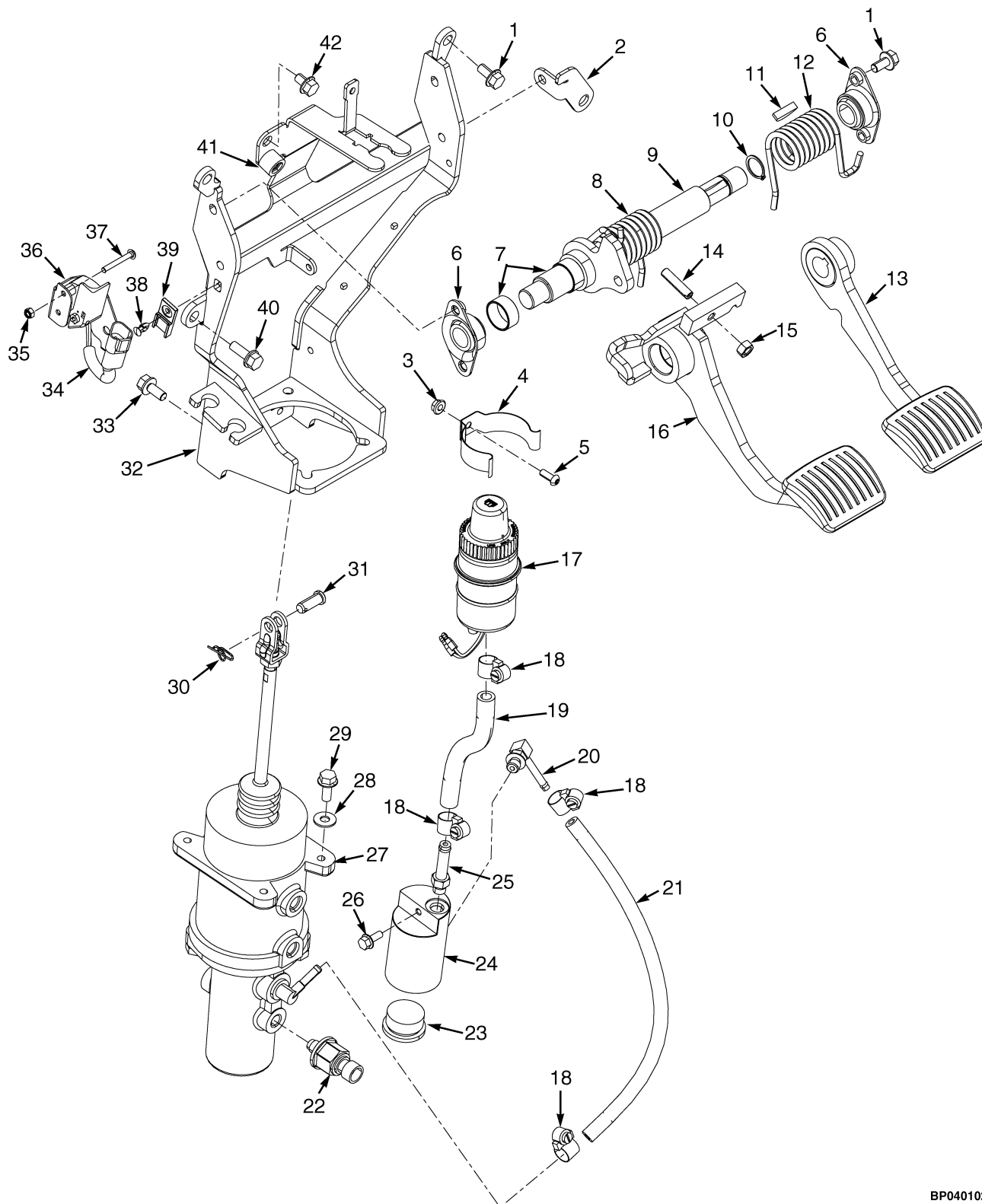
ITEM	PART NO.	DESCRIPTION	QTY
	4011940		
35	1594950	Bracket	1
36	1527876	Capscrew	1
37	1583611	Capscrew	2
	a 2093224	Label (Brake Fluid Warning)	1
	a 114312	Strap Clamp	1

FOOTNOTES:**a** Not Illustrated

NOTES

[illegible]

BRAKE PEDAL LINKAGE AND MASTER CYLINDER (FIGURE 8-2) DUAL PEDAL



BP040102

**BRAKE PEDAL LINKAGE AND MASTER CYLINDER
DUAL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1527879	Capscrew	6
2	1594950	Bracket	1
3	1514429	Nut	1
4	2021353	Holder	1
5	1510126	Screw (Button Head)	1
6	1585575	Bushing	2
7	244540	Bushing	2
8	1568077	Spring (LH)	1
9	1606547	Crank	1
10	12929	Snap Ring	1
11	206	Woodruff Key	1
12	1568076	Spring (RH)	1
13	1568256	Brake Pedal (RH)	1
13	1570300	Pad	2
14	1534871	Bolt	1
15	239503	Nut	1
16	1639801	Brake Pedal (LH)	1
16	1701771	Inching Pedal (Left Hand) (Alternate Part)	1
16	1570300	Pad	1
17	1646439	Reservoir	1
17	2077604	Tank	1
17	1645381	Diaphragm	1
17	1646397	Cap	1
18	166857	Clamp	4
19	2092888	Hose	1
20	222509	Fitting	1
20	16481	O-Ring	1
21	117989	Hose (Brake Feed)	1
22	1590033	Transducer	1
23	233683	Fitting	1
23	16487	O-Ring	1
24	2092613	Cylinder Block	1
25	222491	Fitting	1
25	16481	O-Ring	1
26	1527876	Capscrew	1
27	1605266	Master Cylinder	1
27	1672003	Brake Booster	1
27	1672004	Master Cylinder	1
27	1672005	Kit-Repair Master Cylinder (Major)	1
27	1672006	Kit-Repair Master Cylinder (Minor)	1
28	1581851	Washer	2
29	1527880	Capscrew	4
30	1351689	Lockring	1
31	1375391	Pin (Rod End)	1
32	1606547	Crank	1
33	1608654	Capscrew	2
34	1547849	Sensor (Brake Position) (Inching)	1
34	1547849	Sensor (Brake Position) (Alternate Part)	1
35	302398	Locknut	2
36	1531567	Bracket (Inching Sensor)	1

BRAKE PEDAL LINKAGE AND MASTER CYLINDER DUAL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
36	1688503	Mount (Inching Sensor)(Alternate Part)	1
37	1553897	Capscrew	2
37	1701768	Screw (Button Head)(Alternate Part)	1
38	1564526	Clip (Key Hole)	1
38	292668	Nut (Alternate Part)	2
39	1500912	Clip (Connector)	1
39	1704901	Capscrew (Alternate Part)	1
40	1583611	Capscrew	2
41	1556475	Bumper	1
42	~~1529366~~		
	4011940	Capscrew	1
	a 2093224	Label (Brake Fluid Warning)	1
	a 114312	Strap Clamp	1
	2064554	Loctite	AR

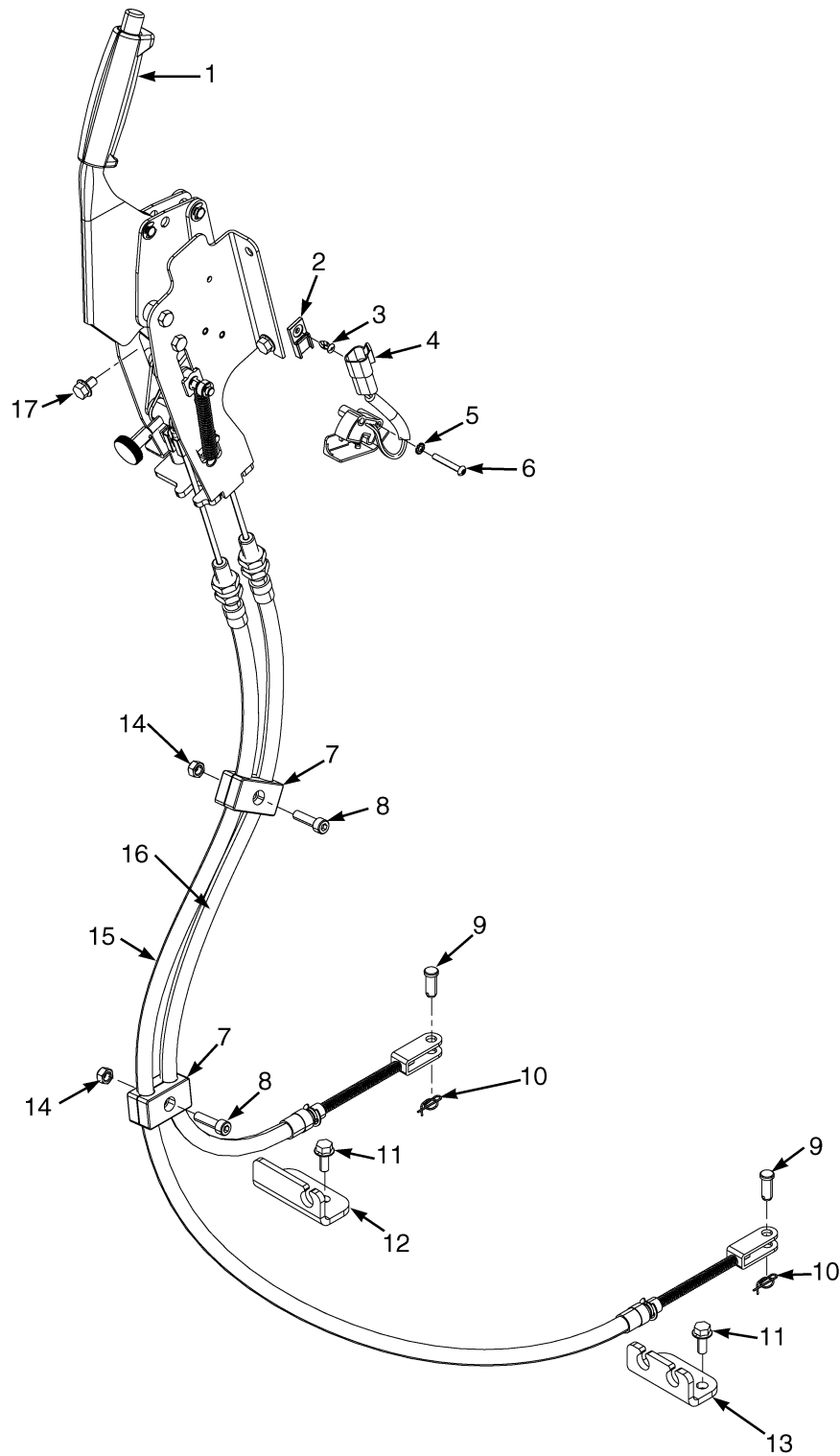
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

PARK BRAKE ASSEMBLY (FIGURE 8-3)

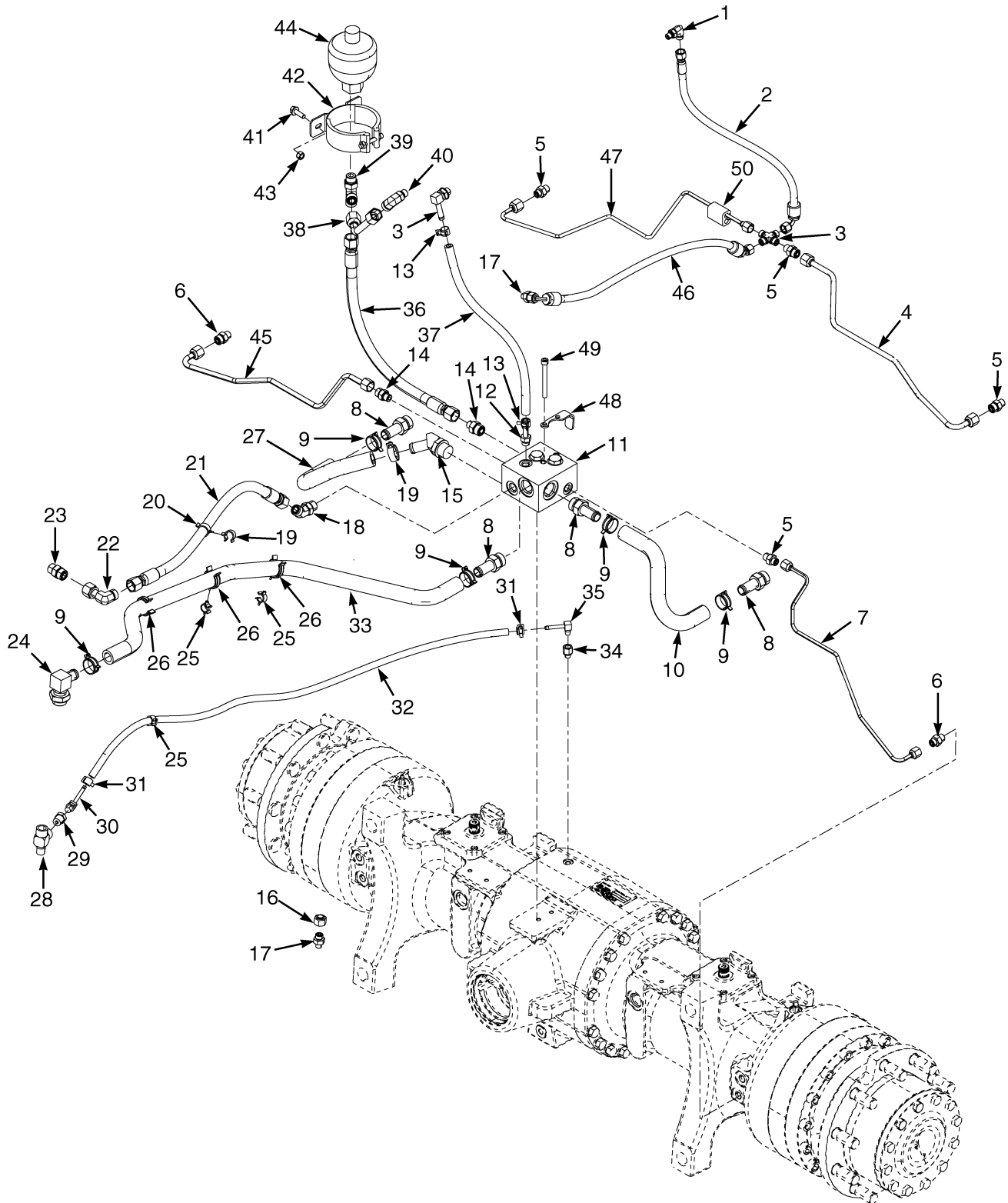


BP040103

PARK BRAKE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1654321	Parking Brake Assy	1
	1654319	Parking Brake Assy (Cab)	1
1	1654322	Parking Brake Lever Assy	1
1	1654320	Parking Brake Lever (Cab)	1
1	1583915	Grip	1
2	1500912	Clip	1
3	1564526	Clip (Key Hole)	1
4	1547849	Sensor (Brake Position)	1
4	1547849	Sensor (Brake Position) (Cab)	1
5	296378	Washer	2
6	1553897	Capscrew	2
7	2098527	Clamp	2
8	287844	Capscrew	2
9	1375391	Pin (Rod End)	2
10	1351689	Lockring	2
11	1527880	Capscrew	4
12	1657719	Bracket	1
13	1600923	Bracket	1
14	302399	Nut	2
15	2084247	Parking Brake Cable (RH)	1
16	2084246	Parking Brake Cable (LH)	1
17	~~1529366~~		
	4011940	Capscrew	4

BRAKE COOLING SYSTEM (FIGURE 8-4) SINGLE AND DUAL PEDAL



BP040104

**BRAKE COOLING SYSTEM
SINGLE AND DUAL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1487058	Fitting	1
1	265787	O-Ring	1
1	16483	O-Ring	1
2	2093938	Hose Assy	1
2	2093938	Hose Assy	4
3	1654373	Fitting (Tee)	1
4	2093989	Tube	1
5	1486740	Fitting	4
5	16483	O-Ring	1
6	1486738	Fitting	2
6	1527813	O-Ring	1
6	16483	O-Ring	1
7	2093936	Tube	1
8	17758	Fitting	4
8	16486	O-Ring	1
9	1502009	Hose Clamp	6
10	2093942	Hose	1
11	2091441	Manifold	1
11	1616054	Check Valve	2
11	1517906	Kit-Seal	1
12	222492	Fitting	1
12	16483	O-Ring	1
13	1569616	Hose Clamp	2
14	1486745	Fitting	1
14	265731	O-Ring	1
14	16483	O-Ring	1
15	222505	Fitting	1
15	16486	O-Ring	1
16	1529014	Fitting	1
16	265731	O-Ring	1
17	1486737	Fitting	2
17	1527813	O-Ring	1
17	16481	O-Ring	1
18	1516202	Fitting	1
18	265731	O-Ring	1
18	16484	O-Ring	1
19	1606544	Clamp	1
20	1502066	Clamp	1
21	2093939	Hose Assy	1
22	1486772	Fitting	1
22	265731	O-Ring	1
23	1473887	Fitting	1
23	16484	O-Ring	1
23	265731	O-Ring	1
24	1654374	Fitting	1
24	16486	O-Ring	1
25	1542439	Clamp (Swivel)	3
26	1561759	Clamp (Swivel)	3
27	2091442	Hose	1
28	154452	Fitting	1

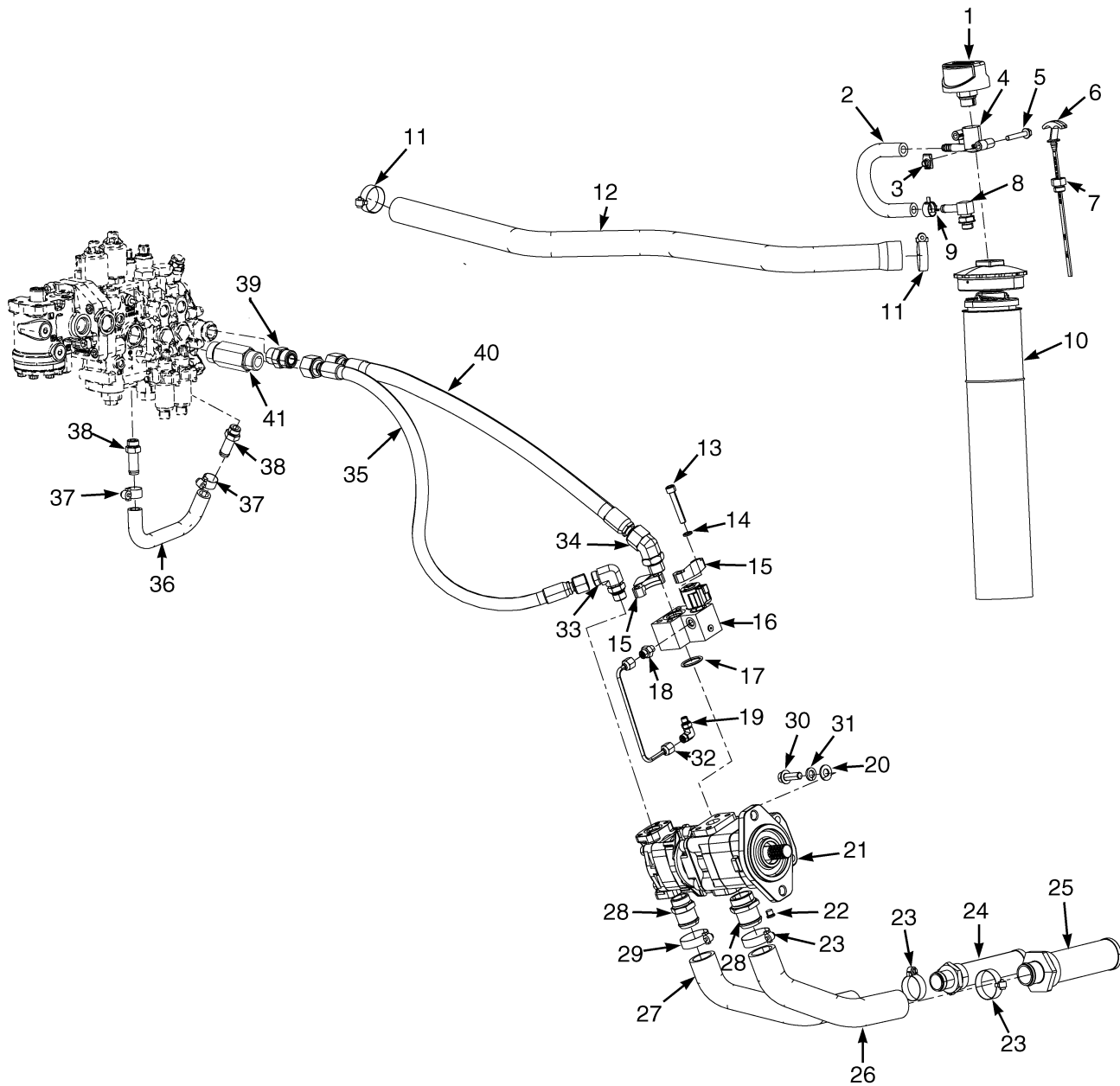
**BRAKE COOLING SYSTEM
SINGLE AND DUAL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
29	63108	Fitting	1
30	222498	Fitting	1
31	1625338	Hose Clamp	2
32	2098603	Hose	1
33	2093940	Hose (High Temperature)	1
34	1661488	Adapter	1
35	17343	Fitting	1
36	2073192	Hose Assy	1
37	17221	Fitting	1
37	16483	O-Ring	1
38	2097900	Tube Assy	1
39	1592852	Fitting	1
39	265731	O-Ring	2
39	16484	O-Ring	1
40	1487064	Fitting	1
40	265731	O-Ring	1
40	16483	O-Ring	1
41	1510113	Capscrew	2
42	1614250	Clamp	1
43	313828	Nut	2
44	1611999	Accumulator	1
45	2093937	Tube	1
46	2095922	Hose Assy	1
47	2093987	Tube	1
48	1649689	Bracket	1
49	296022	Capscrew	2
50	2091513	Block	1

SECTION 9 HYDRAULIC SYSTEM

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HYDRAULIC SUPPLY AND RETURN (FIGURE 9-1)



BP150296

HYDRAULIC SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	1582161	Breather	1
1	16486	O-Ring	1
2	2098246	Hose	1
3	1480237	Nut	2
4	1582160	Adapter (Breather)	1
5	1510115	Capscrew	2
6	2099266	Dipstick	1
7	16745	Fitting	1
7	16484	O-Ring	1
8	222442	Fitting	1
9	1502008	Hose Clamp	1
10	1600676	Hydraulic Filter (☞ Figure 9-2).....	1
11	119236	Clamp	2
12	2091014	Hose Assy	1
13	b 1670904	Capscrew	4
13	a 296026	Capscrew	4
14	a 293781	Lockwasher	4
15	a 190757	Clamp (Split Half)	2
16	b 2097933	Solenoid Valve	1
16	1662012	Plug	1
16	1662013	Fitting (Orifice Disc)	1
16	1662014	Solenoid Valve	1
17	ab 169787	O-Ring	1
18	b 1486737	Fitting	1
19	b 1487058	Fitting	1
20	15135	Washer	2
21	d 2103458	Gear Pump (41.3 cc) (Electronic Hydraulics) (☞ Figure 9-3).....	1
21	d 2098592	Gear Pump (41.3 cc) (Manual Hydraulics) (☞ Figure 9-3).....	1
22	e 222442	Fitting	1
23	369804	Clamp	4
24	1624904	Strainer	1
24	16984	O-Ring	1
25	1624905	Strainer	1
25	18909	O-Ring	1
26	2082241	Hose	1
27	2082194	Hose	1
28	1566890	Adapter	1
28	16983	O-Ring	1
29	1568199	Adapter (Suction)	1
29	16487	O-Ring	1
30	1636808	Capscrew	2
31	15158	Washer	2
32	b 2097983	Tube	1
33	1487067	Fitting	1
33	16485	O-Ring	1
33	252729	O-Ring	1
34	b 1516208	Fitting	1
35	2082240	Hose Assy	1
36	2105640	Hose (Three Function)	1
36	2105284	Hose (Four Function)	1
37	130845	Clamp	2

HYDRAULIC SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
38	222493	Fitting	2
38	16484	O-Ring	1
39	1473888	Fitting	2
39	280154	O-Ring	1
39	16486	O-Ring	1
40	b 2098221	Hose Assy	1
40	a 2098095	Hose Assy	1
41	1669664	Fitting	1
	c 1618482	Kit-Valve	1
	c 1528481	Plug (With O-Ring) (Hydraulic Tank Drain)	1
	ac 1678165	Solenoid Valve	1
	c 1684487	Kit-Seal	1
	ac 1695755	Disk	1

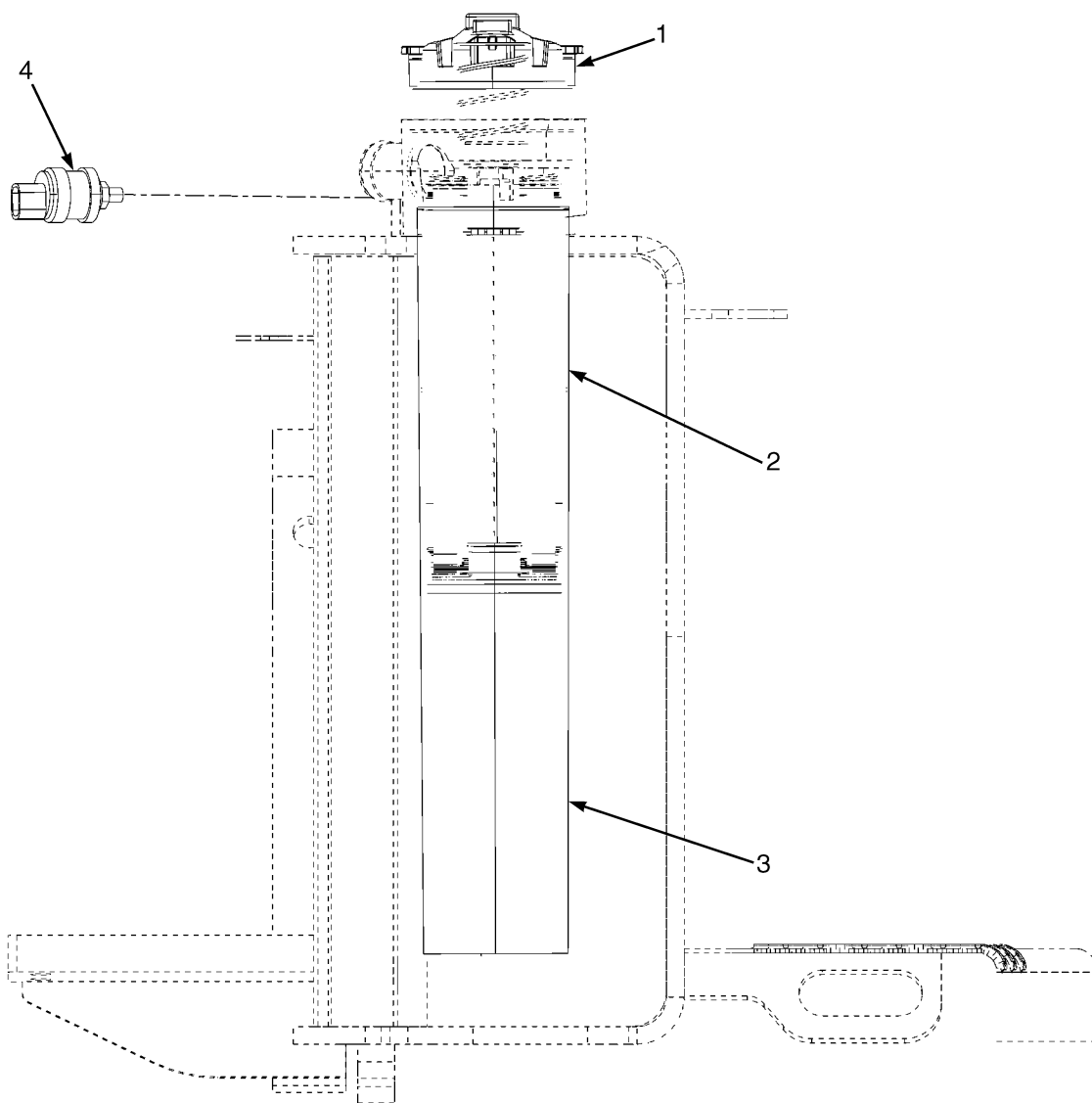
FOOTNOTES:

- a** Anti-Stall Option with E-Hydraulics
b Anti-Stall with Manual Hydraulics
c Not Illustrated

- d** S135-155FT Gasoline and LPG and S155FT Diesel
e S135FT Diesel

NOTES

[illegible]

HYDRAULIC FILTER (FIGURE 9-2)

BP150331

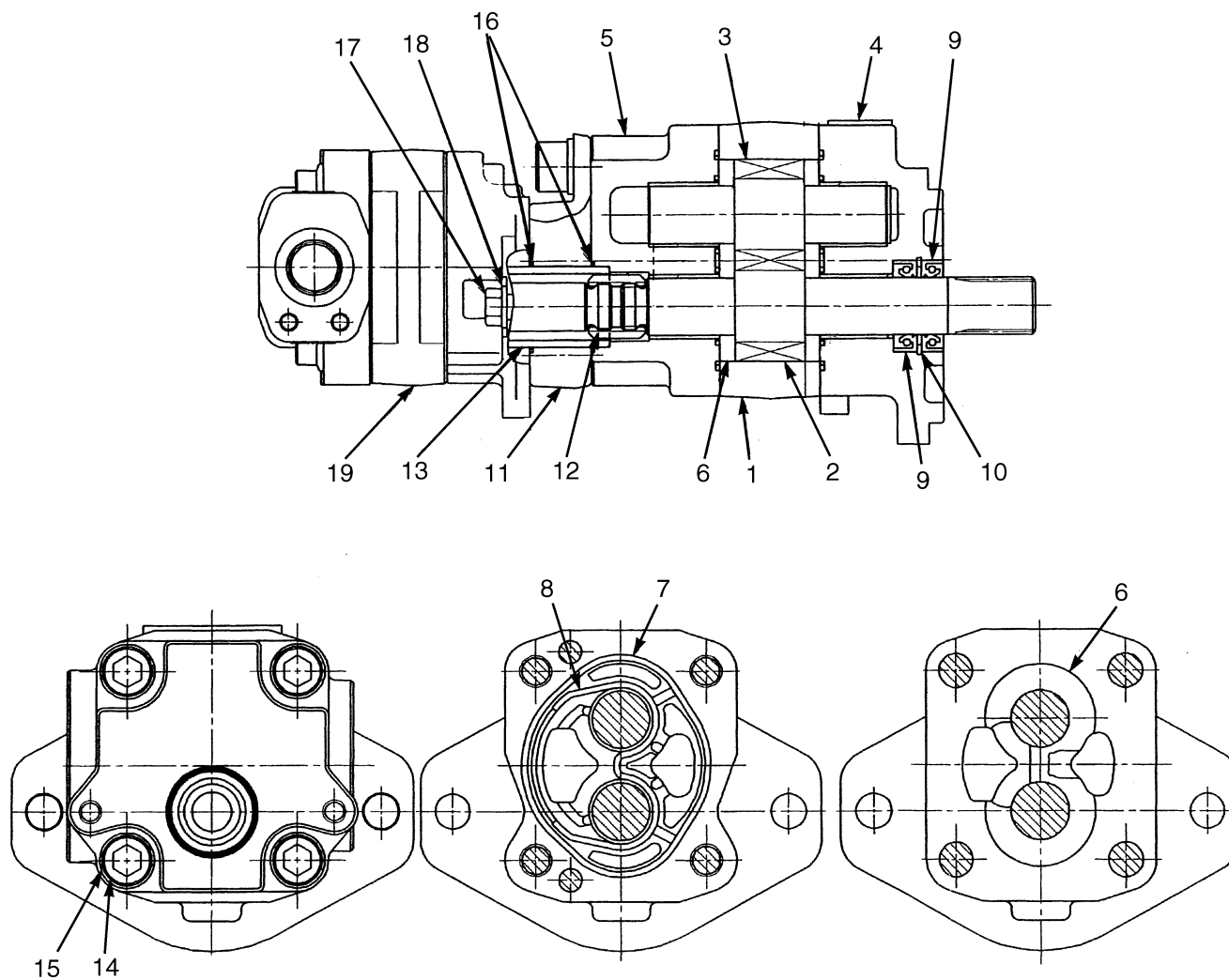
HYDRAULIC FILTER

ITEM	PART NO.	DESCRIPTION	QTY
1	1705821	Cap	1
1	1708697	Cap (Alternate Part)	1
1	1705549	O-Ring	1
1		Spring	1
2		Bowl Assembly	1
3	1615172	Hydraulic Filter	1
4	a 2068337	Pressure Switch	1
	1705728	Kit-Seal	1
	1705722	Kit-Filter Element	1
5	1708691	Kit-O-Ring (Alternate Part)	1

FOOTNOTES:

a With Electronic Monitoring Package

GEAR PUMP ASSEMBLY (FIGURE 9-3)

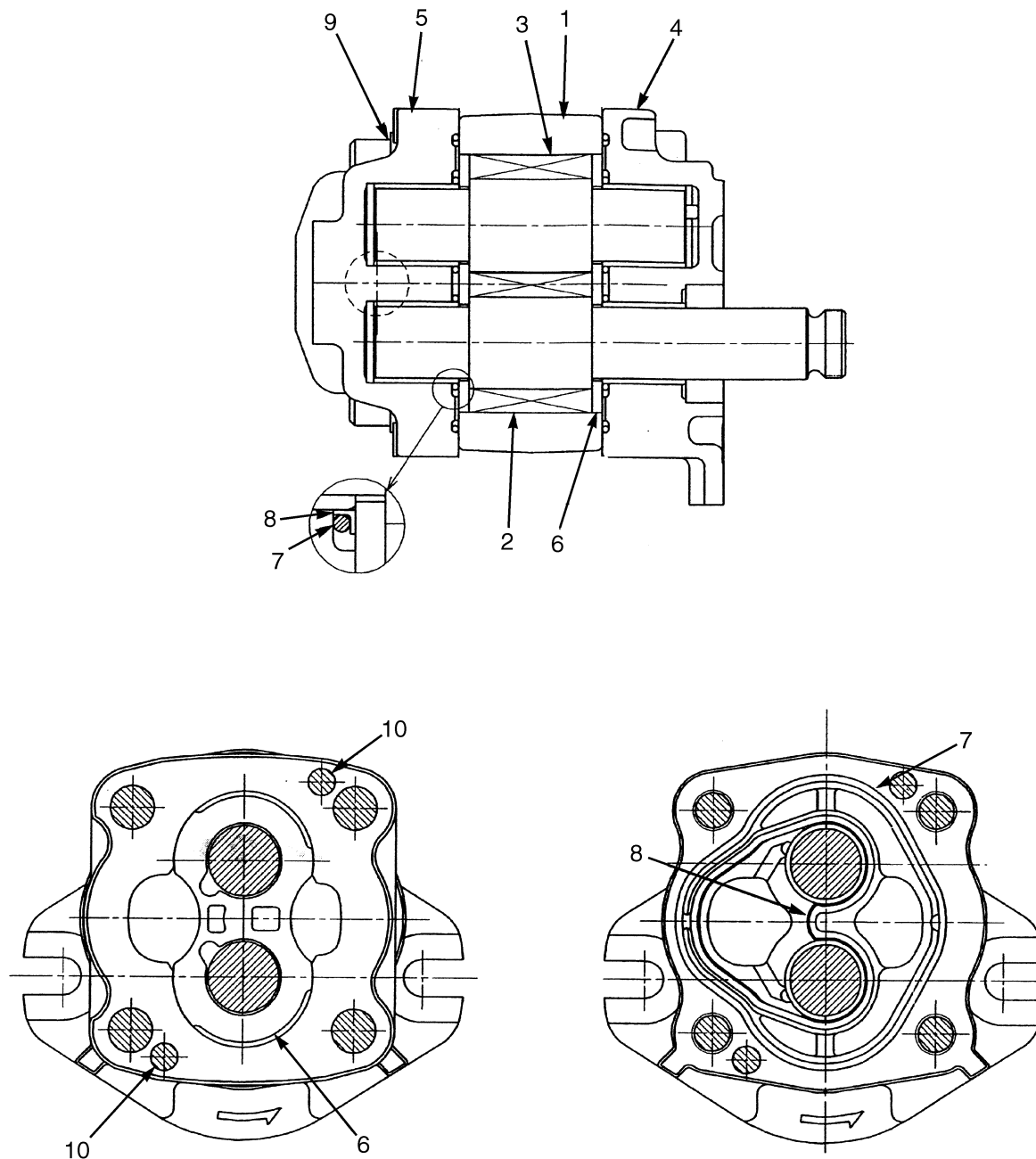


BP150211

GEAR PUMP ASSEMBLY**KEY:****A: Manual Hydraulics****B: Electronic Hydraulics**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2098592	Gear Pump	1	..
	2103458	Gear Pump	..	1
1	1662565	Housing	1	..
1		Housing	..	1
2		Drive Gear	1	1
3		Driven Gear	1	1
4	1657460	Flange	1	1
5	1662566	Cover Plate	1	1
6	1624861	Pressure Plate	2	2
7	1624862	Plate (Seal)	2	2
8	1624863	Back-Up Ring	2	2
9	1624866	Oil Seal	2	2
10	1624867	Snap Ring	1	1
11	1657462	Plate (Adapter)	1	1
12	1669541	Coupling	1	1
13	1657464	Dowel	1	1
14	1657466	Bolt	4	4
15	1624865	Washer	4	4
16	1657465	O-Ring	2	2
17	1657467	Bolt	2	2
18	1657468	Washer	2	2
19	1669542	Gear Pump (Steering) (☞ Figure 9-4).....	1	1
	1669543	Gear Set	1	1
	1657471	Kit-Seal	1	1

GEAR PUMP (FIGURE 9-4)

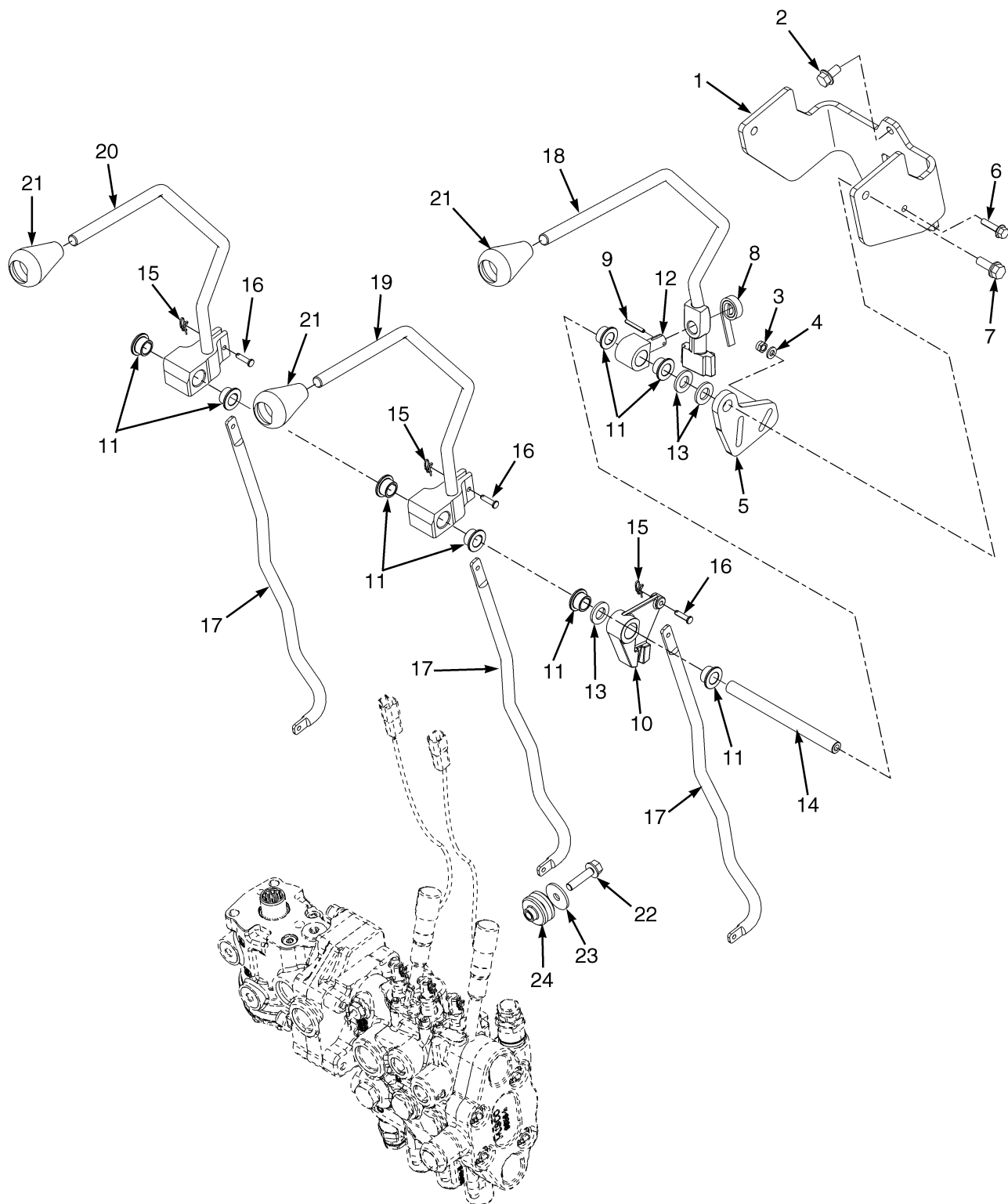


BP150210

GEAR PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	1669542	Gear Pump (Steering)	1
1		Gear Housing	1
2		Drive Gear	1
3		Driven Gear	1
4	1657479	Flange	1
5	1657480	Cover	1
6	1578673	Side Plate	2
7		Seal Plate	2
8		Back-Up Ring	2
9	1578671	Screw	4
10	1578672	Dowel	4
	1669547	Gear Set	1
	1657482	Kit-Repair	1

HAND LEVERS (FIGURE 9-5) THREE FUNCTION — WITH DETENTED LEVERS



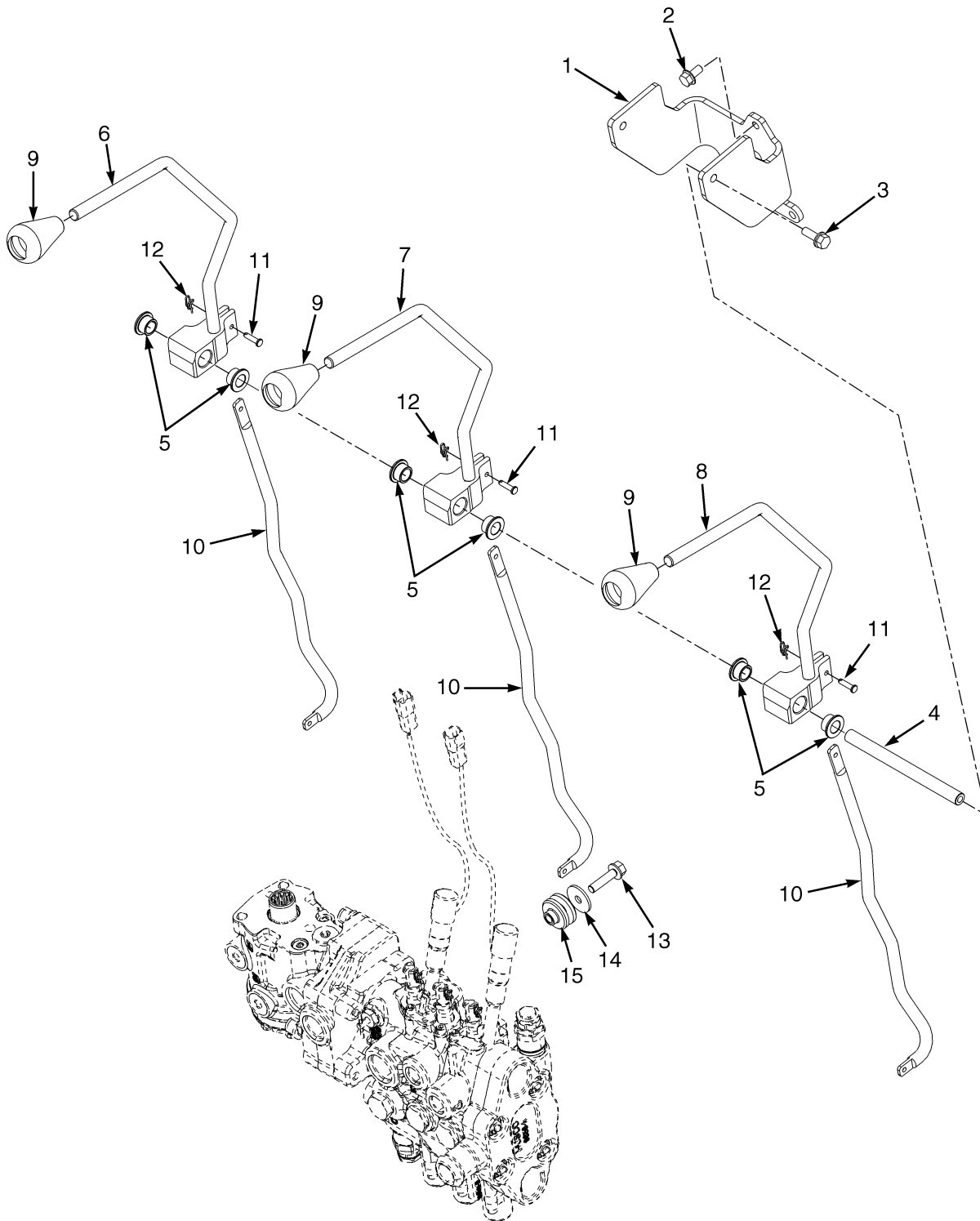
BP150138

HAND LEVERS

THREE FUNCTION – WITH DETENTED LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1670194	Bracket	1
2	1527879	Capscrew	3
3	316834	Nut	1
4	320156	Washer	1
5	1670677	Plate	1
6	1527878	Capscrew	1
7	1583611	Capscrew	2
8	175861	Spring	1
9	302428	Roll Pin	1
10	1542546	Lever	1
11	1564747	Bushing	8
12	306113	Pin (Selector)	1
13	320161	Washer	3
14	1670195	Shaft (Pivot)	1
15	1517361	Locking Ring Cotter Pin	6
16	309109	Pin	6
17	1672798	Link	3
17	1702855	Link	2
17	1702856	Link	1
18	2099398	Lever (Auxiliary One and Two) (Alternate Part)	1
19	2099394	Lever (Tilt)	1
20	2099393	Lever (Lift)	1
21	1517395	Knob	3
22	1586627	Capscrew	3
23	1346752	Washer	3
24	2063991	Isolator	3
		Hydraulic Control Valve ( Figure 9-9).....	1

HAND LEVERS (FIGURE 9-6) THREE FUNCTION — WITHOUT DETENTED LEVERS



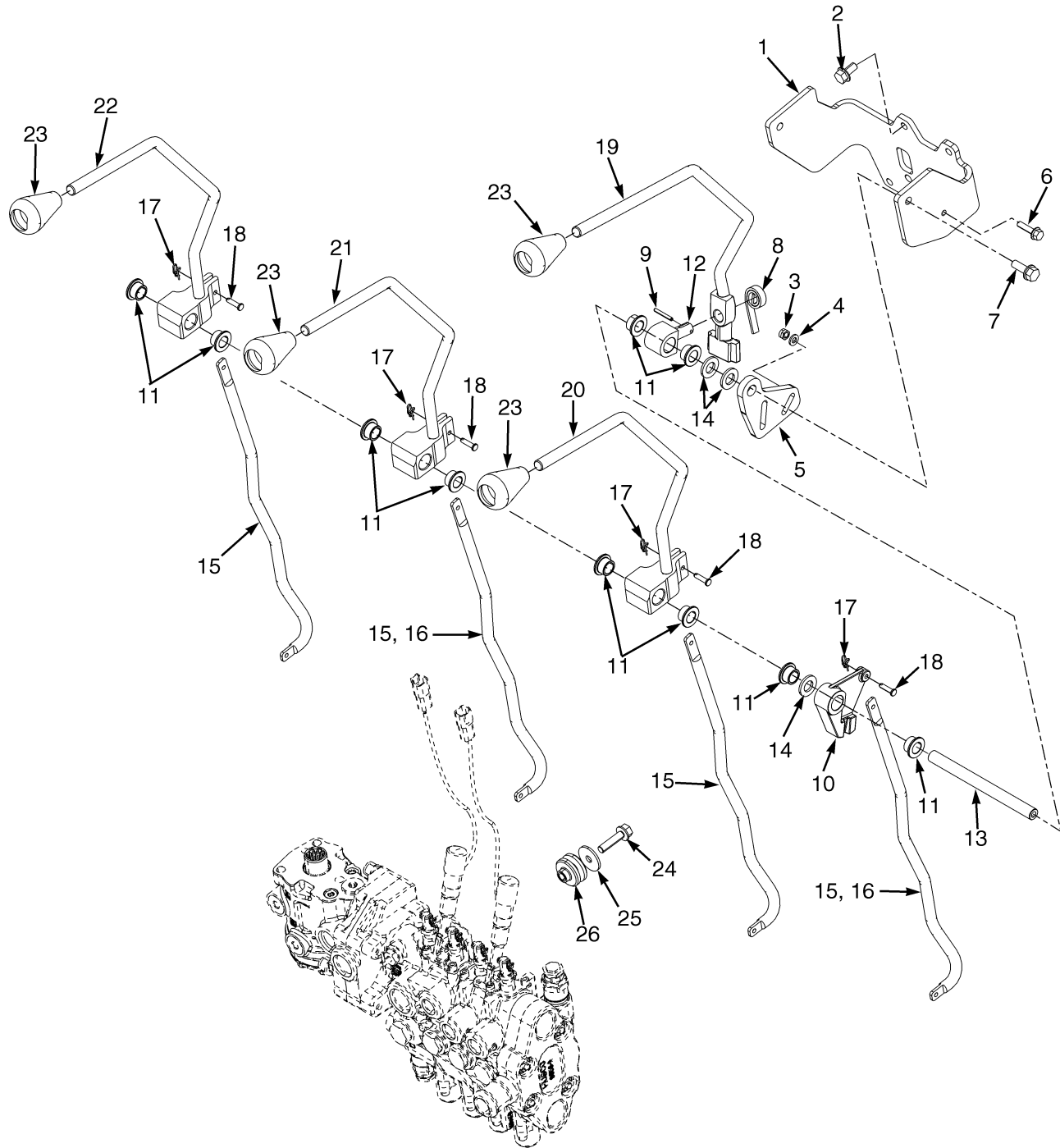
BP150139

HAND LEVERS

THREE FUNCTION – WITHOUT DETENTED LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1665746	Bracket	1
2	1527879	Capscrew	3
3	1583611	Capscrew	2
4	1670292	Shaft	1
5	1564747	Bushing	6
6	2099393	Lever (Lift)	1
7	2099394	Lever (Tilt)	1
8	2099395	Lever (Auxiliary One)	1
9	1517395	Knob	3
10	1672798	Link	3
11	309109	Pin	6
12	1517361	Locking Ring Cotter Pin	6
13	1586627	Capscrew	3
14	1346752	Washer	3
15	2063991	Isolator	3
		Hydraulic Control Valve (☞Figure 9-9).....	1

HAND LEVERS (FIGURE 9-7) FOUR FUNCTION — WITH DETENTED LEVERS



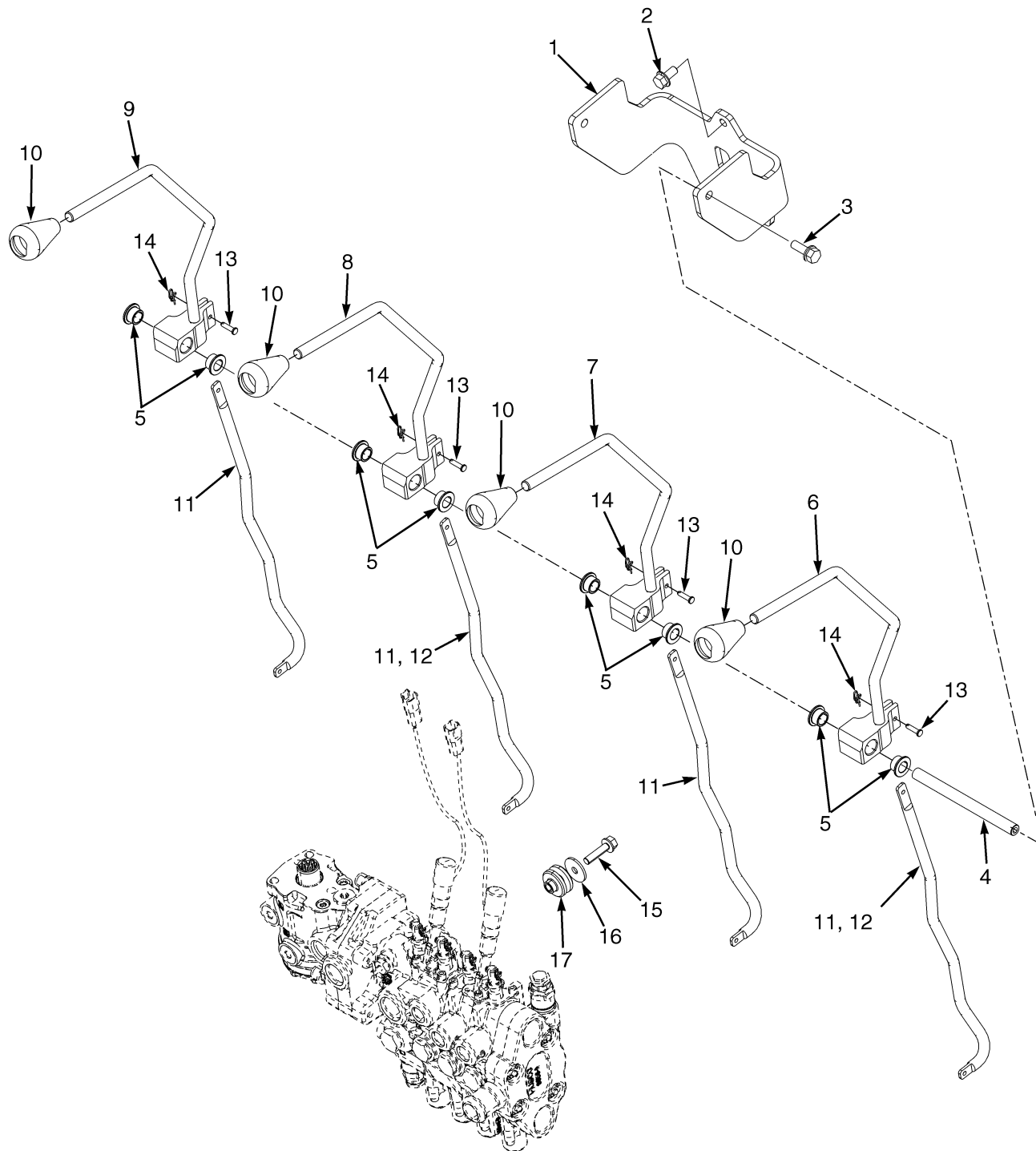
BP150199

HAND LEVERS

FOUR FUNCTION – WITH DETENTED LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1665748	Bracket	1
2	1527879	Capscrew	4
3	316834	Nut	1
4	320156	Washer	1
5	1670677	Plate	1
6	1527878	Capscrew	1
7	1583611	Capscrew	2
8	175861	Spring	1
9	302428	Roll Pin	1
10	1542546	Lever	1
11	1564747	Bushing	10
12	306113	Pin (Selector)	1
13	1670196	Shaft	1
14	320161	Washer	3
15	1672798	Link	4
16	1517361	Locking Ring Cotter Pin	8
17	309109	Pin	8
18	2099397	Lever (Auxiliary Two and Three)	1
19	2099395	Lever (Auxiliary One)	1
20	2099394	Lever (Tilt)	1
21	2099393	Lever (Lift)	1
22	1517395	Knob	4
22	2070655	Lens (Blank)	1
23	1586627	Capscrew	3
24	1346752	Washer	3
25	2063991	Isolator	3
26	2100073	Hydraulic Control Valve ( Figure 9-10).....	1

HAND LEVERS (FIGURE 9-8) FOUR FUNCTION — WITHOUT DETENTED LEVERS



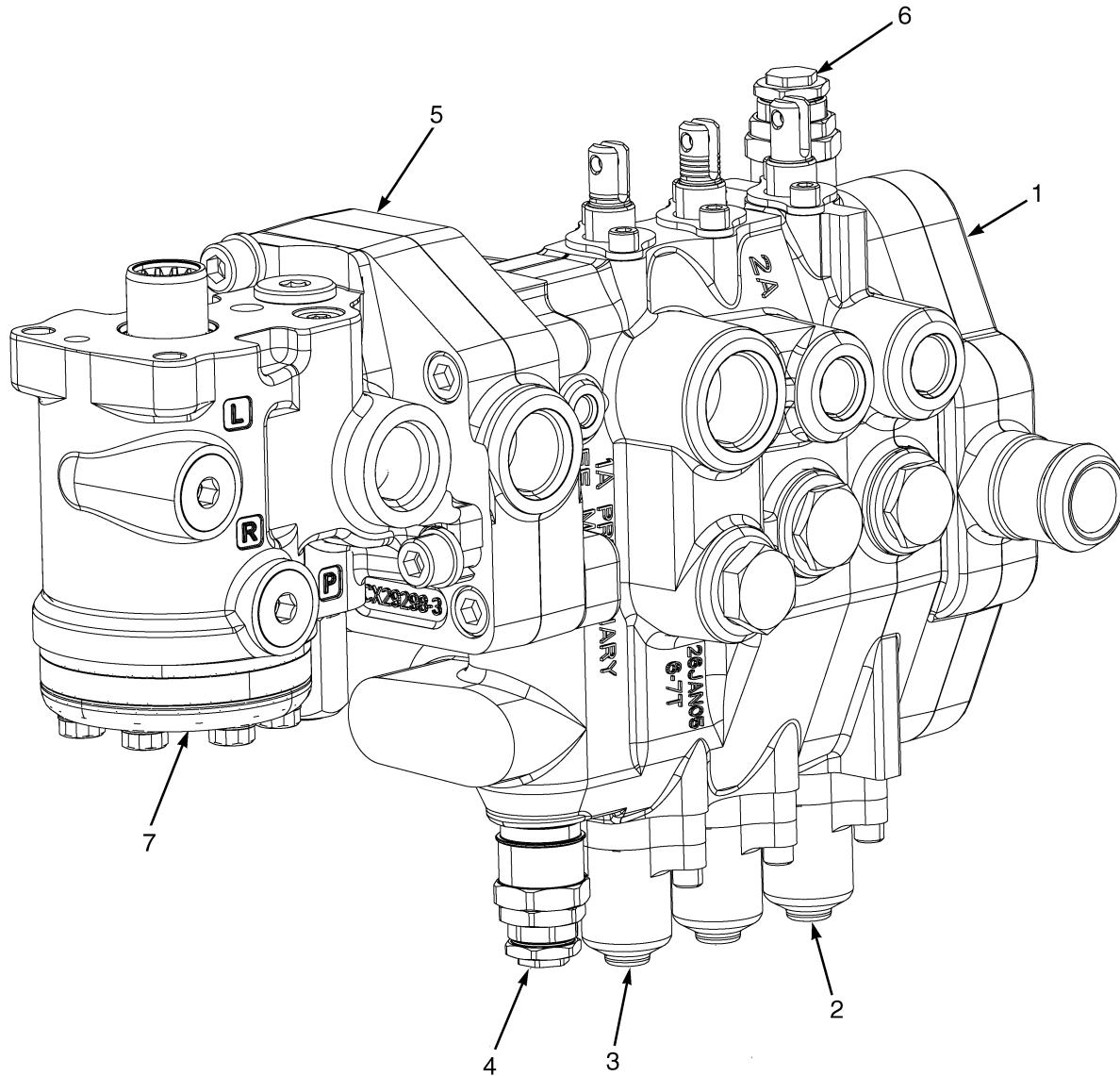
BP150200

HAND LEVERS

FOUR FUNCTION – WITHOUT DETENTED LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1665747	Bracket	1
2	1527879	Capscrew	3
3	1583611	Capscrew	2
4	1670293	Shaft	1
5	1564747	Bushing	8
6	2099396	Lever (Auxiliary Two)	1
7	2099395	Lever (Auxiliary One)	1
8	2099394	Lever (Tilt)	1
9	2099393	Lever (Lift)	1
10	1517395	Knob	4
10	2070655	Lens (Blank)	1
11	1672798	Link	4
12	309109	Pin	8
13	1517361	Locking Ring Cotter Pin	8
14	1586627	Capscrew	3
15	1346752	Washer	3
16	2063991	Isolator	3
17	2100073	Hydraulic Control Valve (☞ Figure 9-10).....	1

CONTROL VALVE AND STEERING UNIT ASSEMBLY (FIGURE 9-9) MANUAL CONTROL — THREE FUNCTION

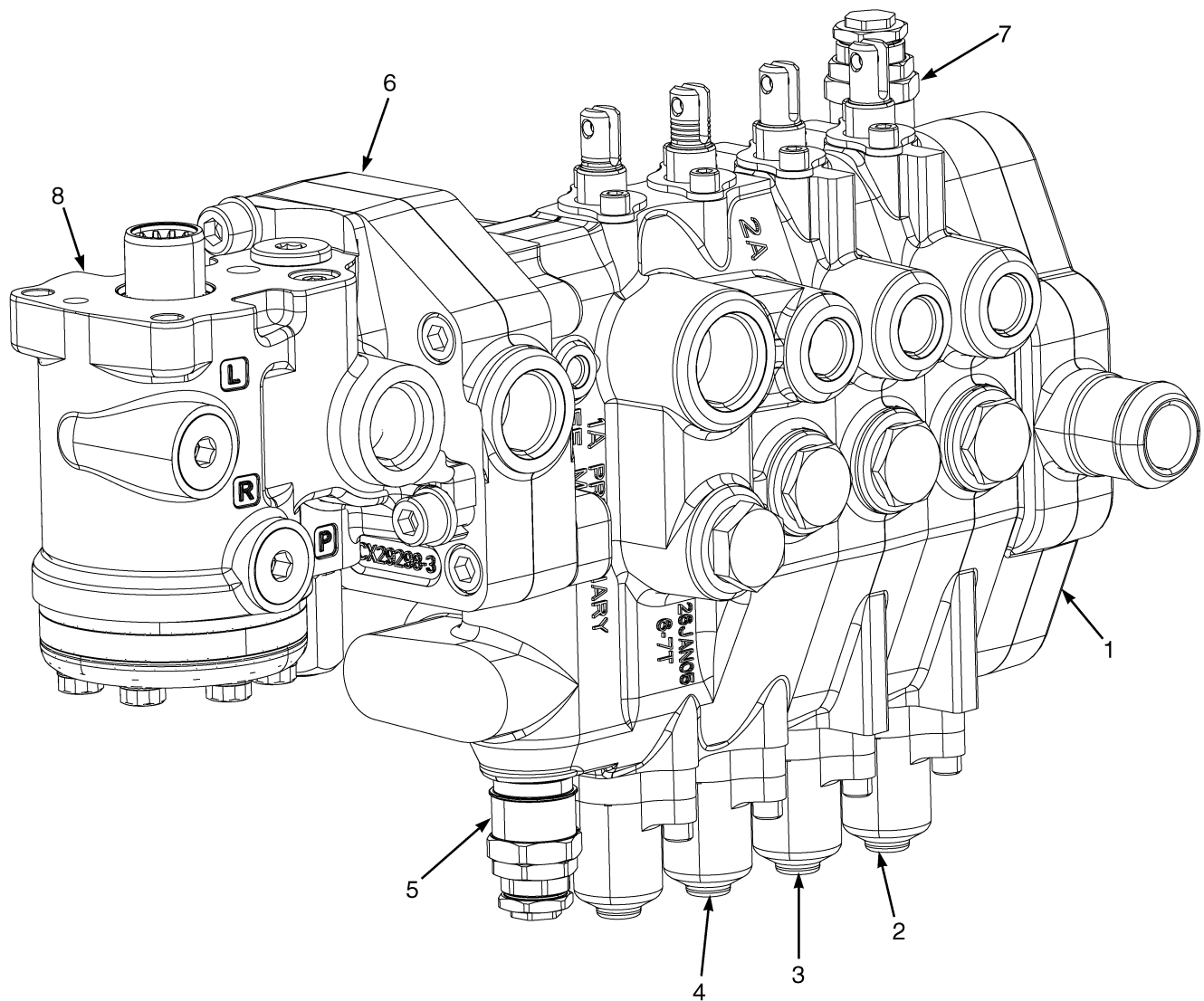


BP140088

CONTROL VALVE AND STEERING UNIT ASSEMBLY
MANUAL CONTROL – THREE FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	2100071	Hydraulic Control Valve	1
	2100074	Hydraulic Control Valve	1
	1670434	Kit-Seal (Three Function)	1
1	1657638	Valve Section (☞ Figure 9-14).....	1
2	1670532	Valve Section (☞ Figure 9-13).....	1
3	1670531	Valve Section (Lift and Tilt) (☞ Figure 9-12).....	1
4	1578747	Relief Valve (3100 PSI) (Main Relief)	1
5	1657632	Valve Section (Inlet) (☞ Figure 9-11).....	1
6	1578707	Relief Valve (2250 PSI) (Secondary)	1
7	2102566	Steering Control Unit	1
	1657631	Kit-Capscrew	1

CONTROL VALVE AND STEERING UNIT ASSEMBLY (FIGURE 9-10) MANUAL CONTROL — FOUR FUNCTION



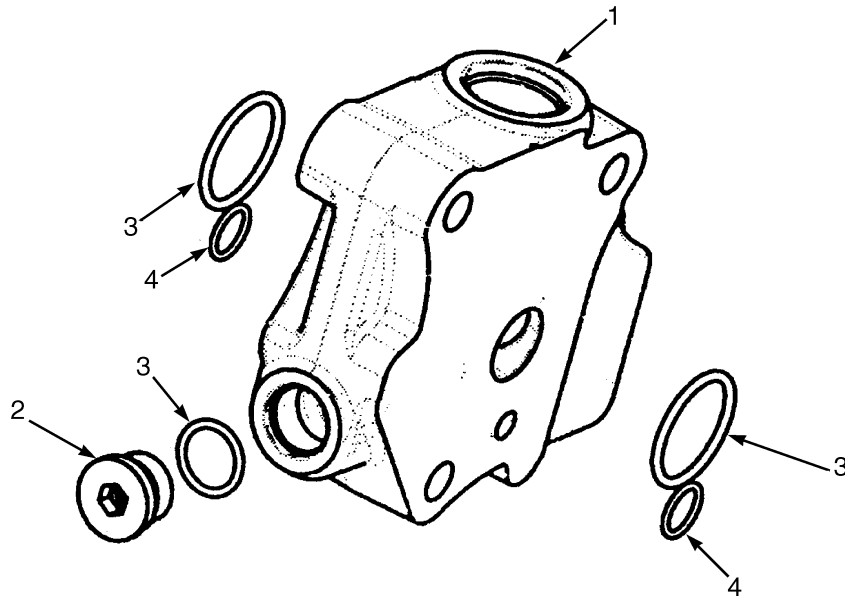
BP140094

CONTROL VALVE AND STEERING UNIT ASSEMBLY
MANUAL CONTROL – FOUR FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	2100073	Hydraulic Control Valve	1
	2100075	Hydraulic Control Valve	1
	1670054	Kit-Seal (Four Function)	1
1	1657638	Valve Section (☞ Figure 9-14).....	1
2	1670530	Valve Section (☞ Figure 9-13).....	1
3	1670532	Valve Section (☞ Figure 9-13).....	1
4	1670531	Valve Section (Lift and Tilt) (☞ Figure 9-12).....	1
5	1578747	Relief Valve (3100 PSI) (Main Relief)	1
6	1657632	Valve Section (Inlet) (☞ Figure 9-11).....	1
7	1578707	Relief Valve (2250 PSI) (Secondary)	1
8	2102566	Steering Control Unit	1
	1657631	Kit-Capscrew	1

MID INLET SECTION (FIGURE 9-11)

MANUAL AND ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION



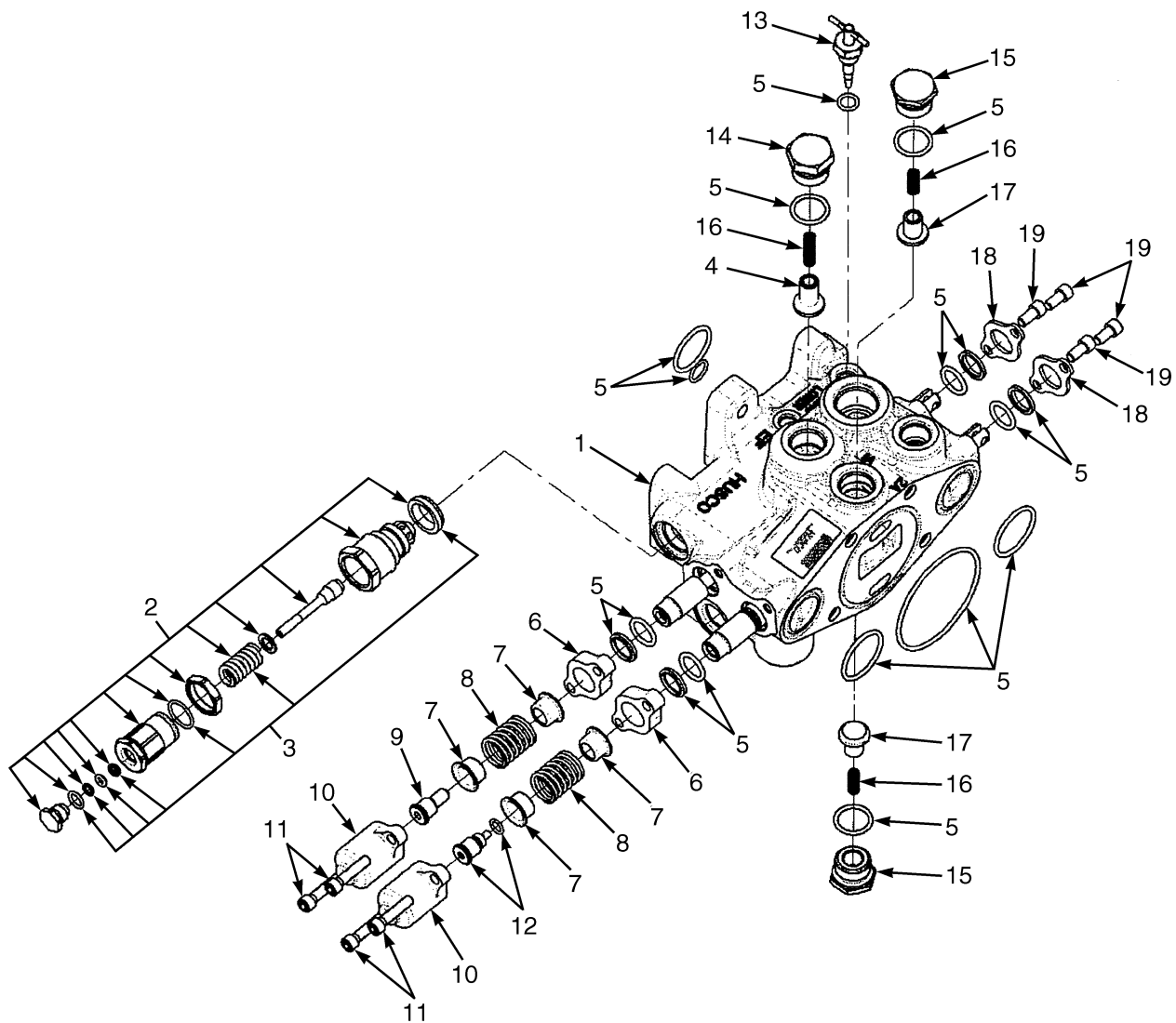
BP140091

ITEM	PART NO.	DESCRIPTION	QTY
1	1657632	Valve Section (Inlet)	1
2	1569602	Plug	1
3	1580133	Kit-Seal (Inlet/Tilt Section)	1
4	1578911	Kit-Seal (Steering Control Unit Interface)	1
	1580146	Kit-Seal (Three Function)	1

NOTES

[illegible]

VALVE ASSEMBLY, LIFT AND TILT (FIGURE 9-12) MANUAL CONTROL VALVE — THREE AND FOUR FUNCTION



BP140118

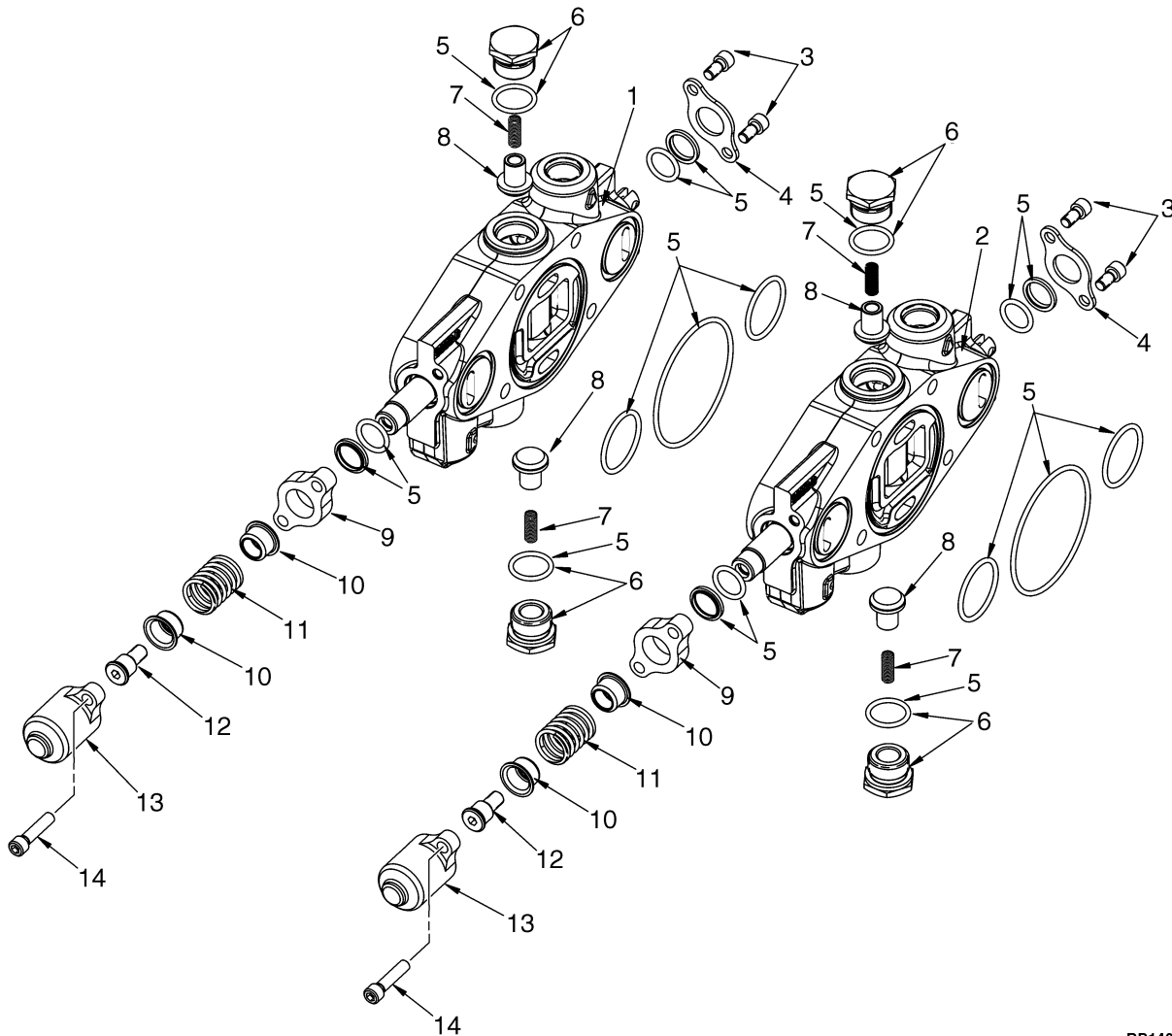
VALVE ASSEMBLY, LIFT AND TILT

MANUAL CONTROL VALVE – THREE AND FOUR FUNCTION

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1670531	Valve Section	1	1
2	1578707	Relief Valve (2250 PSI) (Secondary)	1	1
2	1578747	Relief Valve (3100 PSI) (Main Relief)	1	1
2	1580694	Plug	1	1
2	1580697	Screw	1	1
2	1580698	Nut	1	1
2	1580695	Washer	1	1
2	1580696	Poppet	1	1
3	1580097	Kit-Seal	1	1
4	1578943	Poppet	1	1
5	1670445	Kit-Seal (Lift and Tilt)	1	1
6		Seal Plate	2	2
7	320289	Spring Seat	4	4
8	188517	Spring	2	2
9	1581859	Spool End	1	1
10	1560681	Cap	2	2
11	1578705	Capscrew	4	4
12	386015	Spool End	1	1
13	1670522	Kit-Valve (Manual)	1	1
14	1578940	Plug	1	1
15	1578713	Plug	1	1
16	77442	Spring	3	3
17	77443	Poppet	2	2
18	188515	Plate	2	2
19	16706	Screw	4	4
	1670054	Kit-Seal (Four Function)	..	1
	1670434	Kit-Seal (Three Function)	1	..

AUXILIARY ONE AND TWO SECTIONS (FIGURE 9-13) MANUAL CONTROL VALVE — THREE AND FOUR FUNCTION



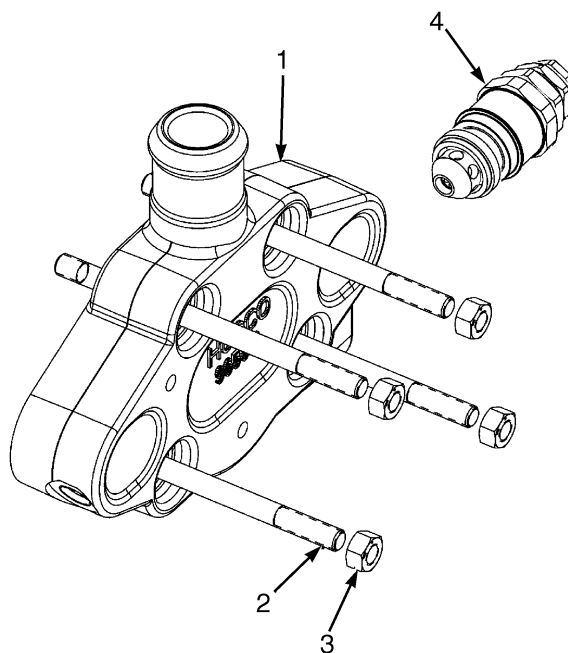
BP140047

AUXILIARY ONE AND TWO SECTIONS **MANUAL CONTROL VALVE – THREE AND FOUR FUNCTION**

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1670532	Valve Section	1	1
2	1670530	Valve Section	..	1
3	16706	Screw	2	2
4	188515	Plate	1	1
5	1580147	Kit-Seal (Auxiliary Functions)	1	1
6	1578713	Plug	2	2
6	77441	Plug	2	2
7	77442	Spring	2	2
8	77443	Poppet	2	2
9		Seal Plate	1	1
10	320289	Spring Seat	2	2
11	188517	Spring	1	1
12	1581859	Spool End	1	1
13	1560681	Cap	1	1
14	1628746	Capscrew	2	2
	1580146	Kit-Seal (Three Function)	1	1

OUTLET SECTION (FIGURE 9-14) **MANUAL CONTROL VALVE — THREE AND FOUR FUNCTION**

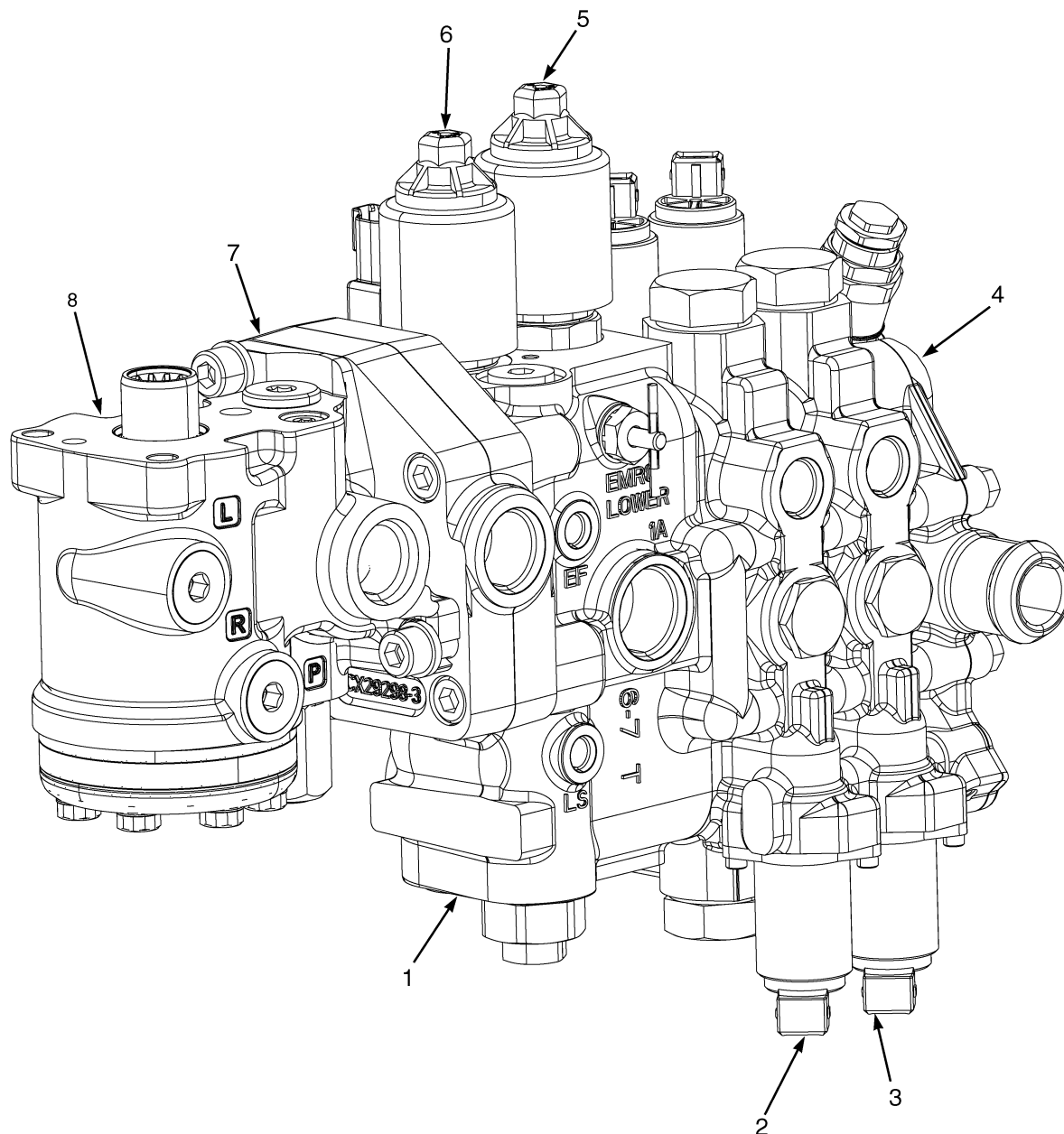


BP140090

ITEM	PART NO.	DESCRIPTION	QTY
1	1657638	Valve Section	1
2	1580155	Kit-Tie Rod (Three Function)	1
2	1580156	Kit-Tie Rod (Four Function)	1
3	15055	Nut	4
4	1578707	Relief Valve (2250 PSI) (Secondary)	1
4	1580131	Kit-Seal	1

NOTES

[illegible]

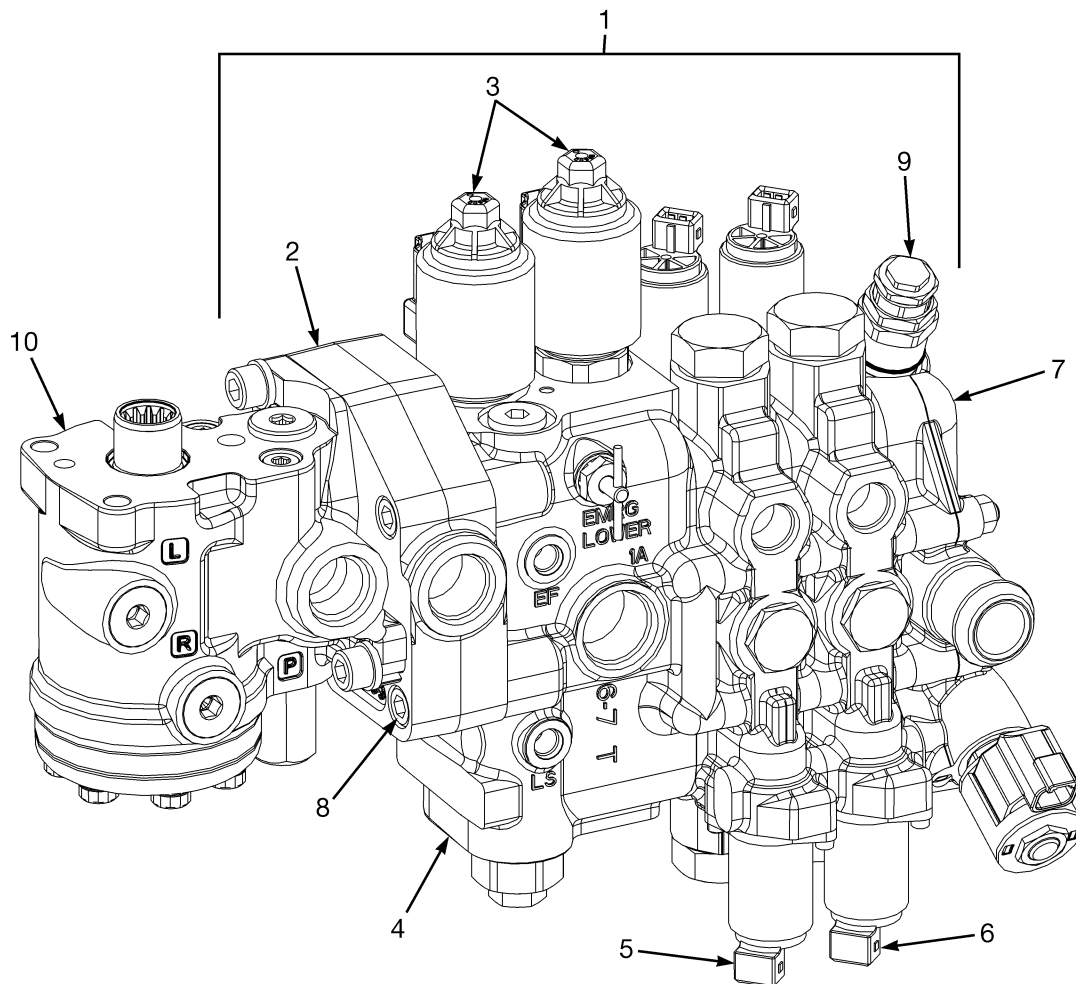
CONTROL VALVE AND STEERING UNIT ASSEMBLY (FIGURE 9-15)
ELECTRONIC CONTROL — THREE FUNCTION (→ 6/2009)

BP140092

CONTROL VALVE AND STEERING UNIT ASSEMBLY
ELECTRONIC CONTROL – THREE FUNCTION (→ 6/2009)

ITEM	PART NO.	DESCRIPTION	QTY
	2094021	Hydraulic Control Valve (Assembly with Steering Control Unit)	1
	2090917	Hydraulic Control Valve Assembly	1
1	1657634	Body (☞Figure 9-19).....	1
2	1657635	Valve Section (☞Figure 9-20).....	1
3	1629198	Valve Section (Auxiliary One) (☞Figure 9-22).....	1
4	1578704	Valve Section (Outlet) (☞Figure 9-26).....	1
5	1629201	Kit-Valve (Lower) (☞Figure 9-21).....	1
6	1629200	Kit-Valve (Lift) (☞Figure 9-21).....	1
7	1657632	Valve Section (Inlet) (☞Figure 9-11).....	1
8	2102566	Steering Control Unit	1
	a 1657636	Kit-Valve (Anti Stall)	1
	a 1657631	Kit-Capscrew	1
	a 1578715	Kit-Tie Rod	1

FOOTNOTES:**a** Not Illustrated

CONTROL VALVE AND STEERING UNIT ASSEMBLY (FIGURE 9-16)
ELECTRO-HYDRAULIC — THREE FUNCTION (6/2009 →)

BP140166

CONTROL VALVE AND STEERING UNIT ASSEMBLY
ELECTRO-HYDRAULIC – THREE FUNCTION (6/2009 →)

ITEM	PART NO.	DESCRIPTION	QTY
	2103051	Hydraulic Control Valve (Assembly with Steering Control Unit)	1
1	2103058	Hydraulic Control Valve Assembly	1
2	1657632	Valve Section (Inlet) (☞ Figure 9-11).....	1
3		Poppet Valve (☞ Figure 9-21).....	1
4	1657634	Body (EHPV Section Assembly) (☞ Figure 9-19).....	1
5	1708296	Valve Section (Tilt) (☞ Figure 9-20).....	1
6	1708298	Valve Section (Auxiliary One) (☞ Figure 9-23).....	1
7	1708297	Valve Section (Outlet) (☞ Figure 9-27).....	1
8	1657631	Kit-Capscrew	1
8	1629155	Washer	5
8	1657743	Capscrew	3
9	1708054	Relief Valve (Secondary)	1
9	1580131	Kit-Seal	1
10	2102567	Steering Control Unit	1
10	1579908	Kit-Seal	1
	1578715	Kit-Tie Rod	1
	1578909	Kit-Seal	1

This technical drawing shows an exploded view of a hydraulic valve assembly. The components are numbered as follows:

- 1**: Base plate or mounting bracket at the bottom.
- 2, 3, 4**: Three vertical hydraulic cylinders or actuators at the bottom right.
- 5**: A complex valve body or manifold assembly on the right side.
- 6**: A top-mounted hydraulic cylinder or actuator.
- 7**: A smaller top-mounted hydraulic cylinder or actuator.
- 8**: A central valve body or manifold assembly.
- 9**: A large cylindrical component on the left side, possibly a reservoir or accumulator.

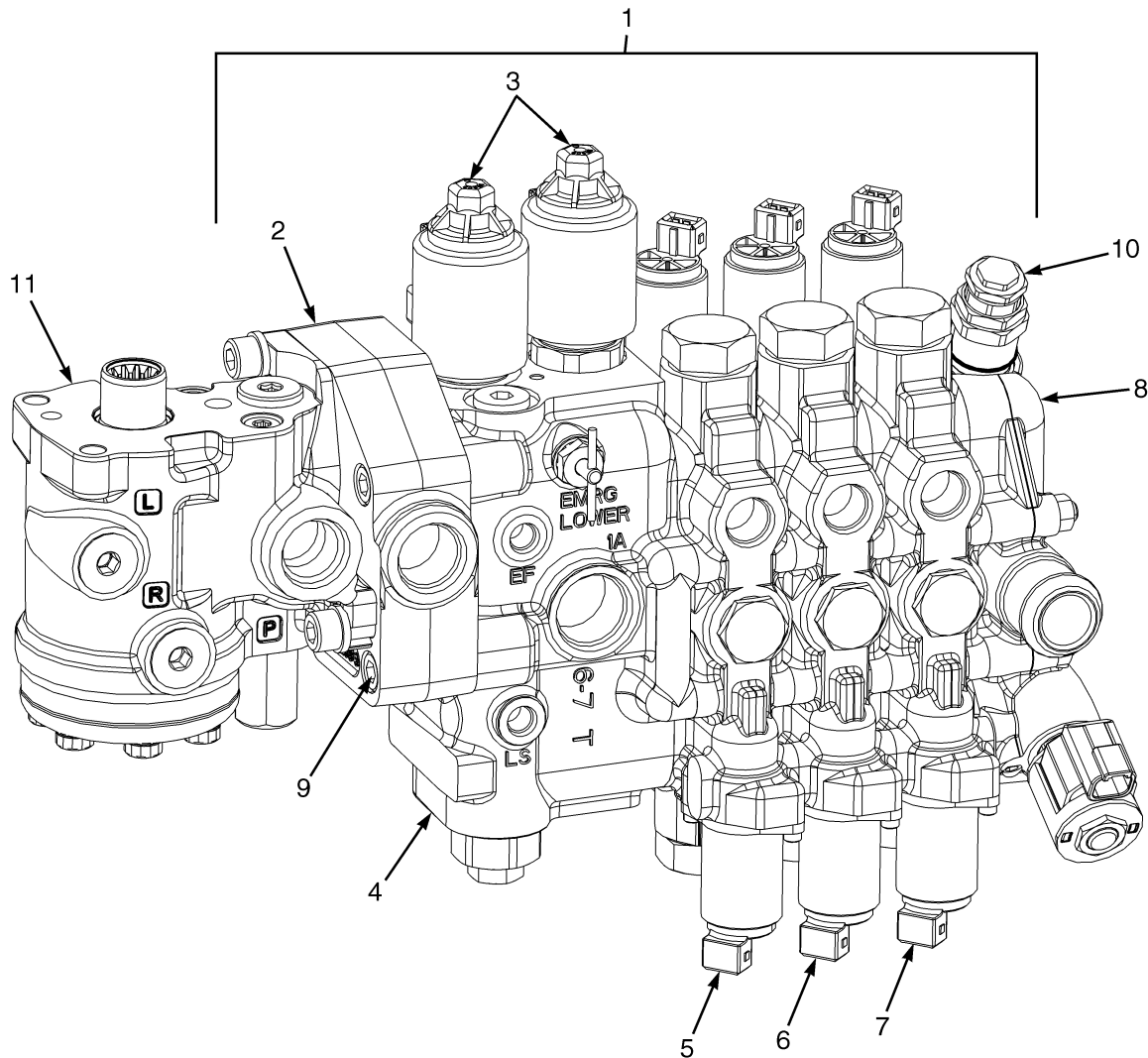
The assembly includes various ports, fittings, and a label that reads "EMER LOWER 1A".

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CONTROL VALVE AND STEERING UNIT ASSEMBLY
ELECTRONIC CONTROL – FOUR FUNCTION (→ 6/2009)

ITEM	PART NO.	DESCRIPTION	QTY
	2094022	Hydraulic Control Valve (Assembly with Steering Control Unit)	1
	2090919	Hydraulic Control Valve Assembly	1
1	1657634	Body (☞Figure 9-19).....	1
2	1657635	Valve Section (☞Figure 9-20).....	1
3	1629198	Valve Section (Auxiliary One) (☞Figure 9-22).....	1
4	1633693	Valve Section (Auxiliary Two and Three) (☞Figure 9-24).....	1
5	1578704	Valve Section (Outlet) (☞Figure 9-26).....	1
6	1629201	Kit-Valve (Lower) (☞Figure 9-21).....	1
7	1629200	Kit-Valve (Lift) (☞Figure 9-21).....	1
8	1657632	Valve Section (Inlet) (☞Figure 9-11).....	1
9	2102566	Steering Control Unit	1
	1657636	Kit-Valve (Anti Stall)	1
	1580151	Kit-Tie Rod	1
	1657631	Kit-Capscrew	1

CONTROL VALVE AND STEERING UNIT ASSEMBLY (FIGURE 9-18) ELECTRO-HYDRAULIC — FOUR FUNCTION (6/2009 →)

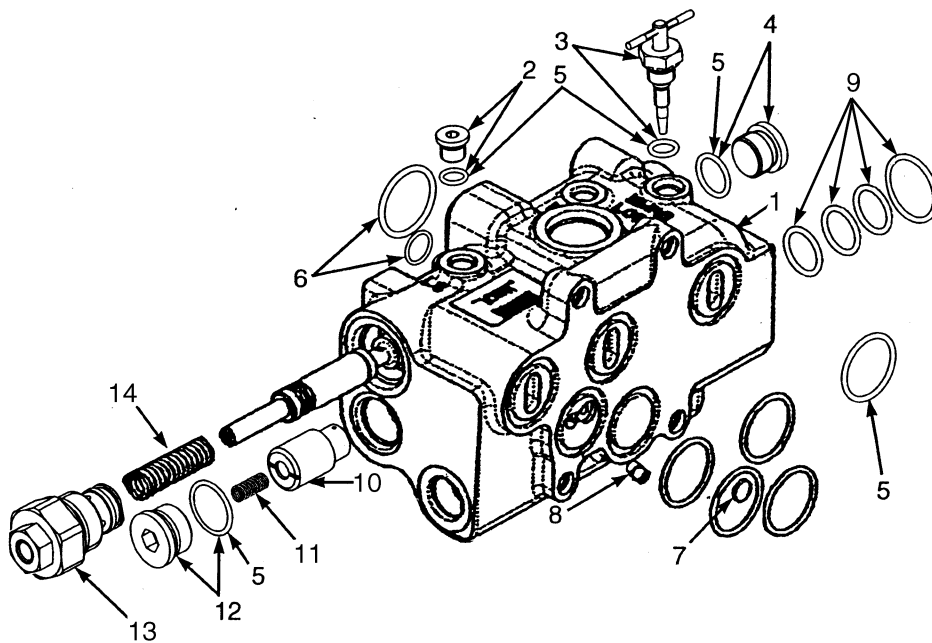


BP140168

CONTROL VALVE AND STEERING UNIT ASSEMBLY
ELECTRO-HYDRAULIC – FOUR FUNCTION (6/2009 →)

ITEM	PART NO.	DESCRIPTION	QTY
	2103053	Hydraulic Control Valve (Assembly with Steering Control Unit)	1
1	2103059	Hydraulic Control Valve Assembly	1
2	1657632	Valve Section (Inlet) (☞ Figure 9-11).....	1
3	1657634	Body (EHPV Section Assembly) (☞ Figure 9-19).....	1
4	1708296	Valve Section (Tilt) (☞ Figure 9-20).....	1
5	1708298	Valve Section (Auxiliary One) (☞ Figure 9-22).....	1
6	1708299	Valve Section (Auxiliary Two) (☞ Figure 9-25).....	1
7	1708297	Valve Section (Outlet) (☞ Figure 9-27).....	1
8	1657631	Kit-Capscrew	1
8	1629155	Washer	5
8	1657743	Capscrew	3
9	1708054	Relief Valve (Secondary)	1
9	1580131	Kit-Seal	1
10	2102567	Steering Control Unit	1
10	1579908	Kit-Seal	1
	1580151	Kit-Tie Rod	1
	1578908	Kit-Seal	1

VALVE ASSEMBLY, LIFT AND LOWER (FIGURE 9-19) ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION



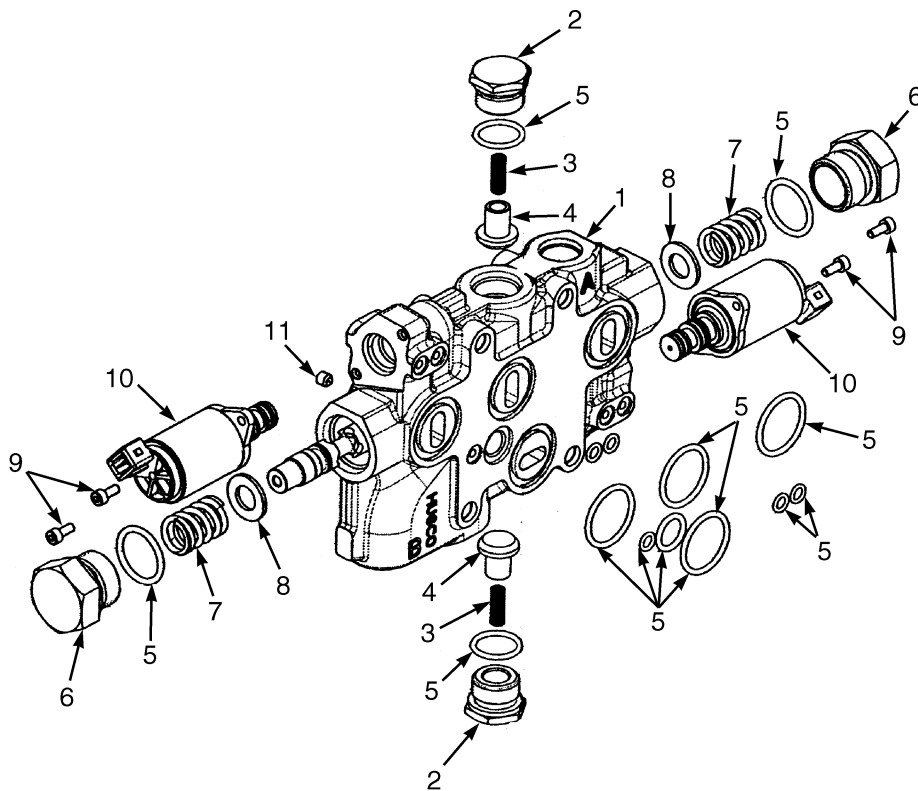
BP140095

VALVE ASSEMBLY, LIFT AND LOWER
ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
1	1657634	Body	1
2	1578712	Plug	1
2	204128	Plug	1
3	1581862	Kit-Valve (Manual Lowering)	1
4	1629210	Plug	1
5	1578904	Kit-Seal (Inlet)	1
6	1578911	Kit-Seal (Steering Control Unit Interface)	1
7	1578875	Shuttle Valve	1
8	1578888	Setscrew	1
9	1586279	Kit-Seal (Electro Hydraulic Poppet Valve)	AR
10	1586280	Poppet	1
11	1578876	Spring	1
12	1578714	Plug	1
13	1578706	Relief Valve (Main)	1
13	1580132	Kit-Relief Valve	1
14	1658065	Spring	1
	b 1578909	Kit-Seal	1
	a 1578908	Kit-Seal	1

FOOTNOTES:**a** Four Function Only**b** Three Function Only

TILT SECTION (FIGURE 9-20) ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION



BP140096

TILT SECTION

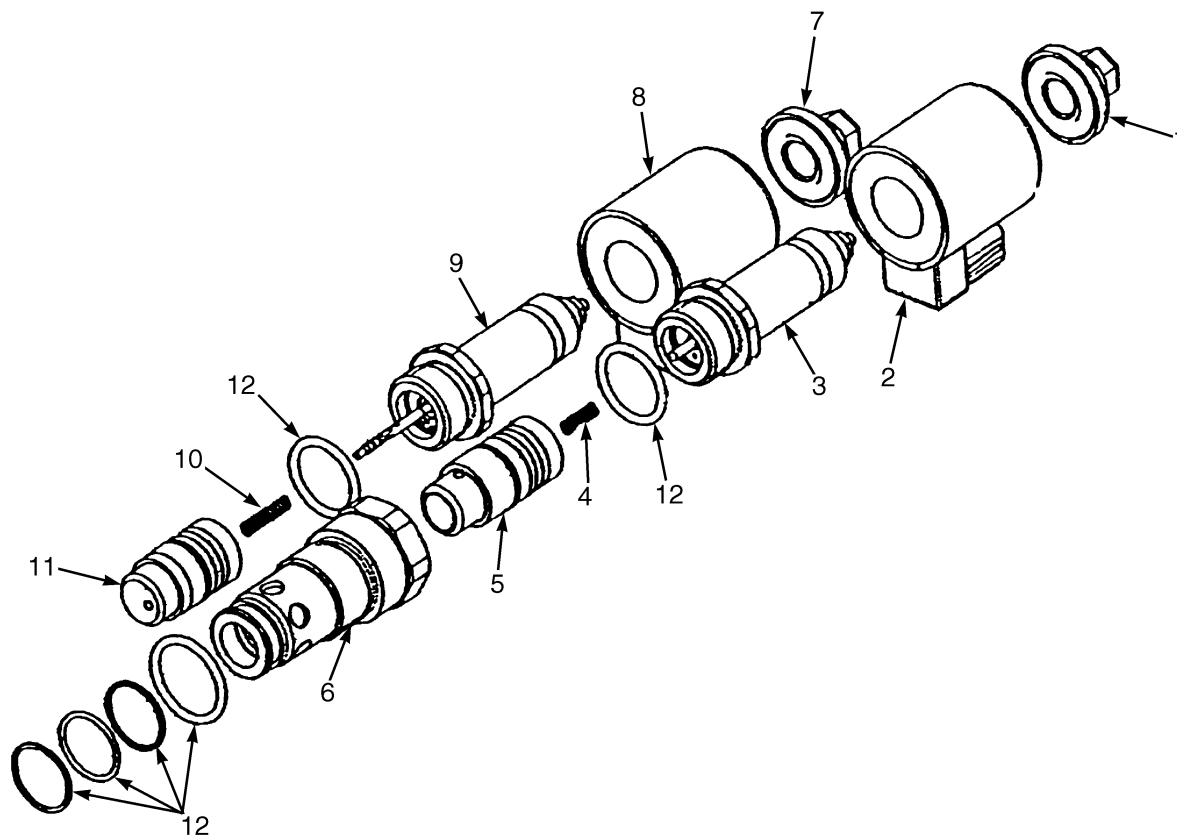
ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
1	c 1657635	Valve Section (Tilt)	1
1	d 1708296	Valve Section (Tilt)	1
2	1578713	Plug	2
3	77442	Spring	2
4	77443	Poppet	2
5	1578905	Kit-Seal (Tilt)	1
6	1578889	Plug	2
7	1578882	Spring	2
8	1578883	Washer	2
9	1578878	Capscrew	4
10	1578711	Valve (Pressure Reducing)	2
10	1578912	Kit-Seal (Pressure Reducing Valve)	1
11	1578887	Setscrew	1
	b 1578909	Kit-Seal	1
	a 1578908	Kit-Seal	1

FOOTNOTES:

a Four Function Only
b Three Function Only

c → PENDING PER ECN 10532217
d PENDING PER ECN 10532217 →

ELECTRO HYDRAULIC POPPET VALVE (FIGURE 9-21)
ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION

BP140098

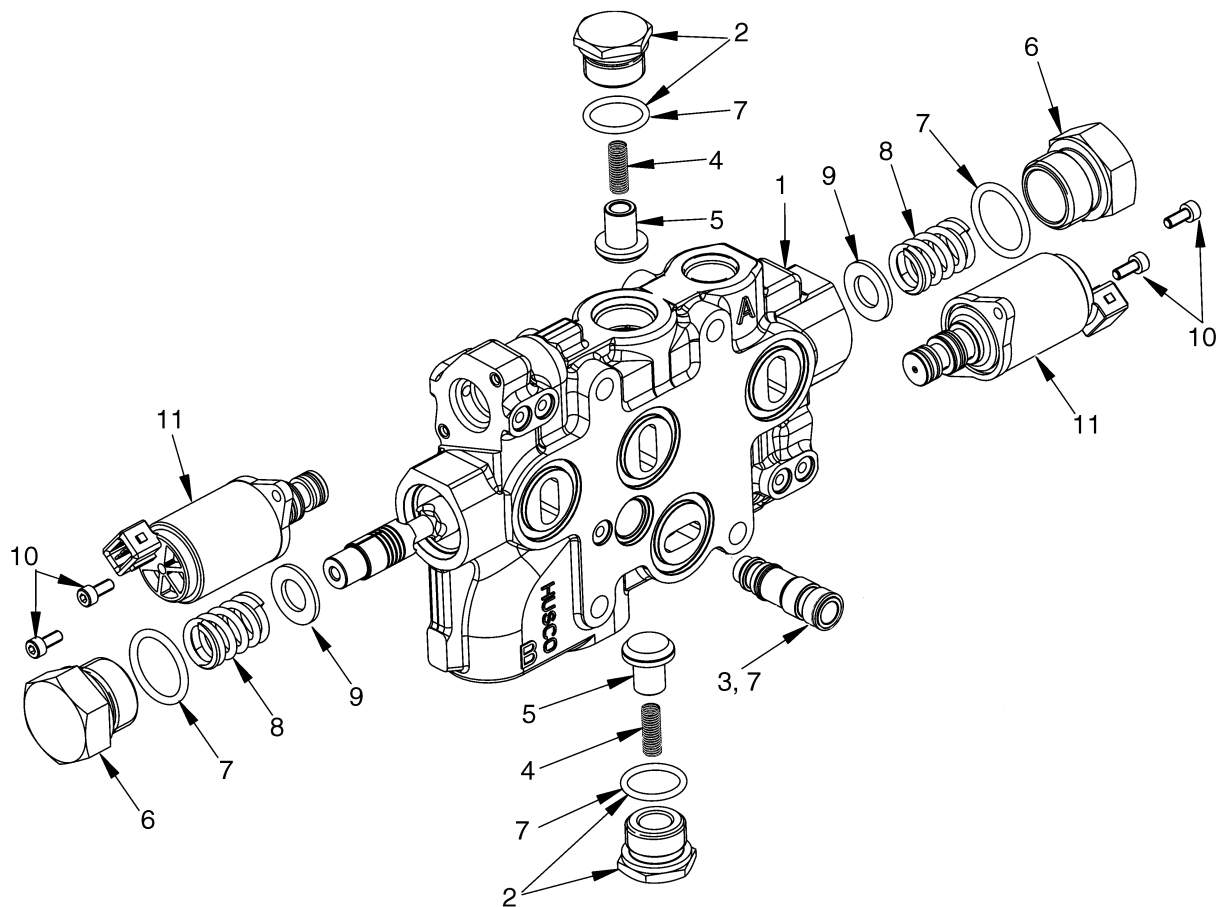
ELECTRO HYDRAULIC POPPET VALVE
ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION

ITEM	PART NO.	DESCRIPTION	QTY
	a 1629201	Kit-Valve (Lower)	1
	b 1699590	Poppet Valve	1
1	1629163	Nut	1
2	1578710	Coil	1
3	1629160	Tube (Solenoid)	1
4	1629165	Spring	1
5	a 1629159	Poppet Valve	1
5	b 1699591	Poppet Valve	1
6	1586020	Sleeve	1
	1629200	Kit-Valve (Lift)	1
7	1629163	Nut	1
8	1629162	Coil	1
9	1629161	Tube Assy (Solenoid)	1
10	1629164	Spring	1
11	1629158	Poppet Valve	1
12	1586279	Kit-Seal (Electro Hydraulic Poppet Valve)	1

FOOTNOTES:**a** → PENDING PER ECN 10532211**b** PENDING PER ECN 10532211 →

AUXILIARY ONE SECTION (FIGURE 9-22)

ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION (→ PENDING PER ECN 10532217)



BP140099

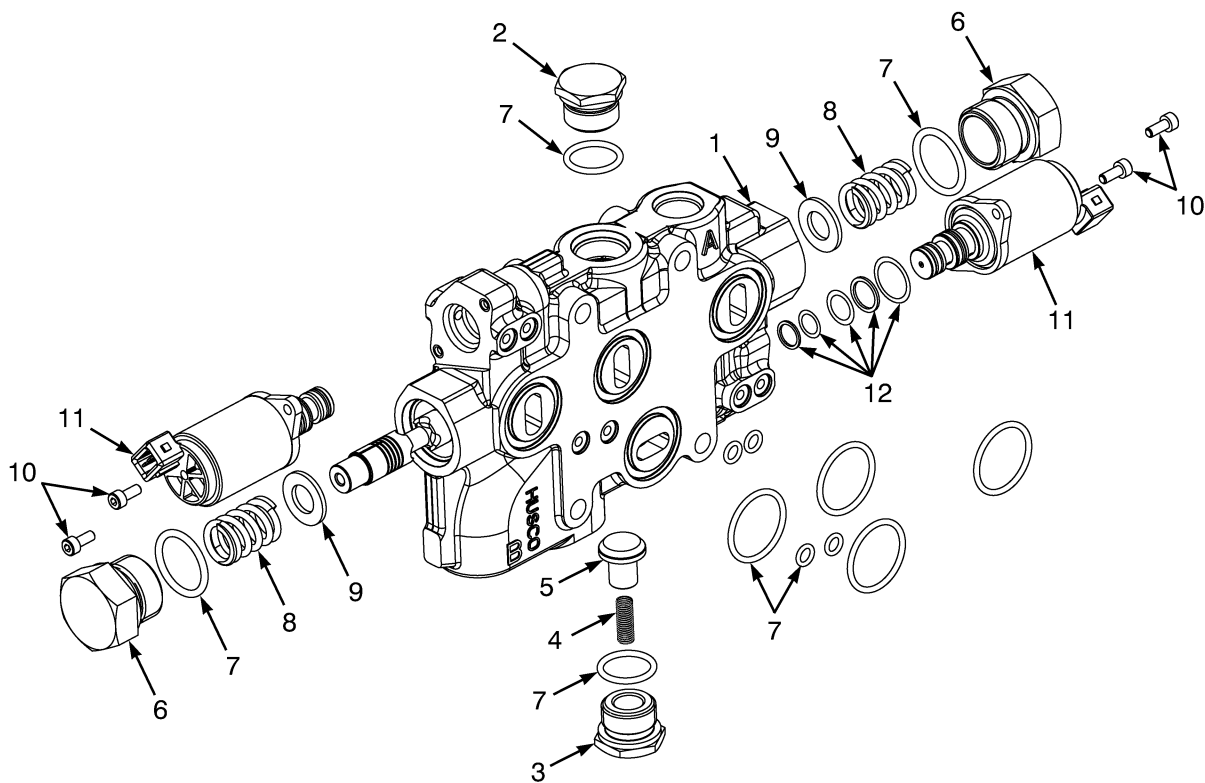
AUXILIARY ONE SECTION
ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION (→ PENDING PER ECN 10532217)

ITEM	PART NO.	DESCRIPTION	QTY
1	1629198	Valve Section (Auxiliary One)	1
2	1578713	Plug (Tilt/Auxiliary)	1
2	1578714	Plug (Lift)	1
3	1578718	Cartridge Valve	1
3	1578886	Spring	1
3	1629166	Sleeve	1
3	266519	O-Ring	2
4	77442	Spring	1
5	77443	Poppet	1
6	1578889	Plug	2
7	1578906	Kit-Seal (Auxiliary One Section)	1
8	1578882	Spring	2
9	1578883	Washer	2
10	1578878	Capscrew	4
11	1578711	Valve (Pressure Reducing)	2
	1578912	Kit-Seal (Pressure Reducing Valve)	1
	b 1578909	Kit-Seal	1
	a 1578908	Kit-Seal	1

FOOTNOTES:**a** Four Function Only**b** Three Function Only

AUXILIARY ONE SECTION (FIGURE 9-23)

ELECTRONIC CONTROLLER — THREE AND FOUR FUNCTION (PENDING PER ECN 10532217 →)

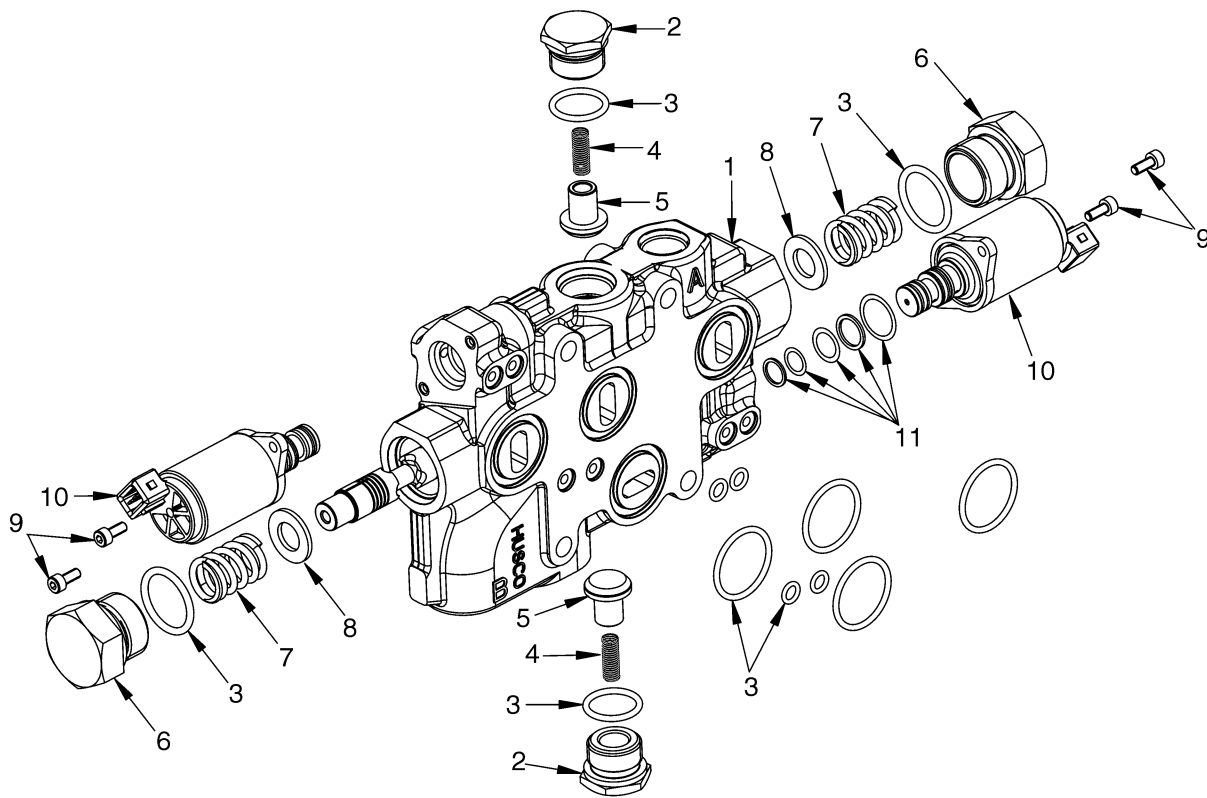


BP140153

AUXILIARY ONE SECTION
ELECTRONIC CONTROLLER – THREE AND FOUR FUNCTION (PENDING PER ECN 10532217 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1708298	Valve Section (Auxiliary One)	1
2	1578714	Plug	1
3	1578713	Plug	1
3	77441	Plug	1
4	77442	Spring	2
5	77443	Poppet	2
6	1578889	Plug	1
7	1578906	Kit-Seal (Auxiliary One Section)	1
8	1578882	Spring	2
9	1578883	Washer	2
10	1664395	Capscrew	4
11	1578711	Valve (Pressure Reducing)	2
12	1578912	Kit-Seal (Pressure Reducing Valve)	2

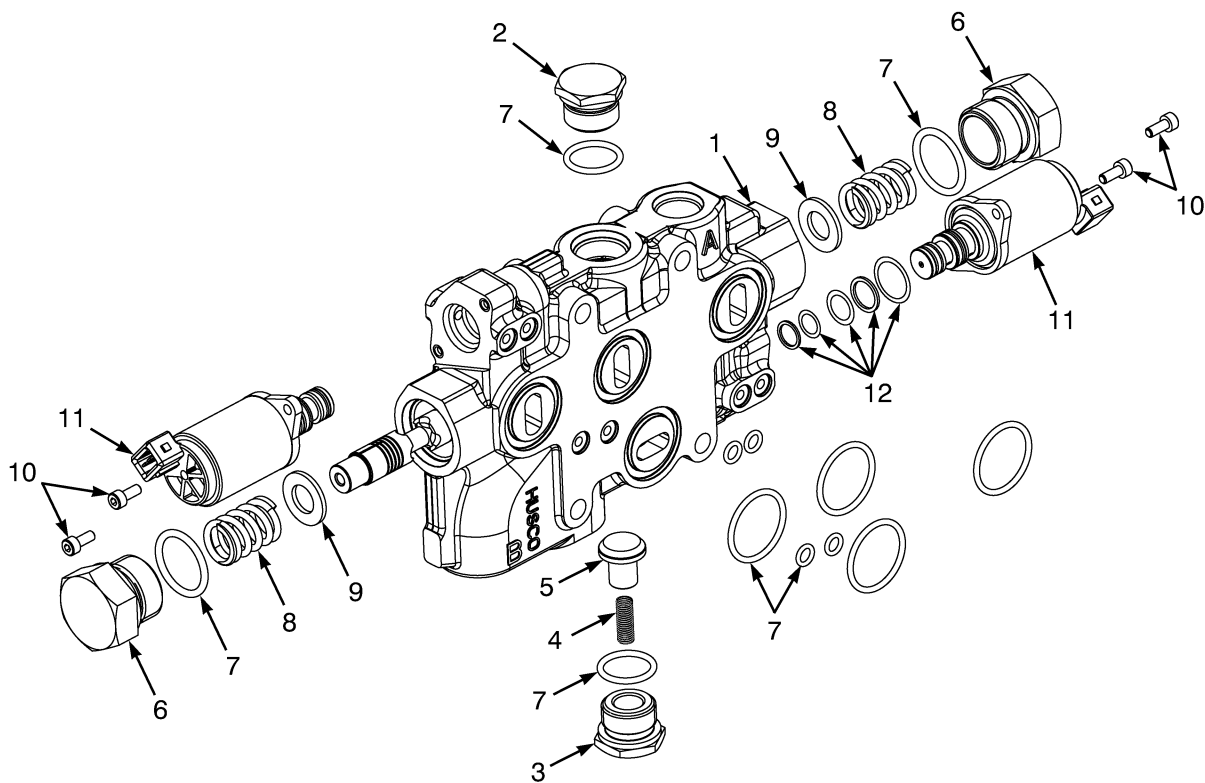
AUXILIARY TWO SECTION (FIGURE 9-24) ELECTRONIC CONTROL VALVE — FOUR FUNCTION (→ PENDING PER ECN 10532217)



AUXILIARY TWO SECTION
ELECTRONIC CONTROL VALVE – FOUR FUNCTION (→ PENDING PER ECN 10532217)

ITEM	PART NO.	DESCRIPTION	QTY
1	1633693	Valve Section	1
2	1578713	Plug (Tilt/Auxiliary)	1
2	1578714	Plug (Lift)	1
3	1578907	Kit-Seal	1
4	77442	Spring	2
5	77443	Poppet	2
6	1578889	Plug	2
7	1578882	Spring	2
8	1578883	Washer	2
9	1578878	Capscrew	4
10	1578711	Valve (Pressure Reducing)	2
11	1578911	Kit-Seal (Steering Control Unit Interface)	1
	1578908	Kit-Seal	1

AUXILIARY TWO SECTION (FIGURE 9-25) ELECTRONIC CONTROL VALVE — FOUR FUNCTION (PENDING PER ECN 10532217 →)



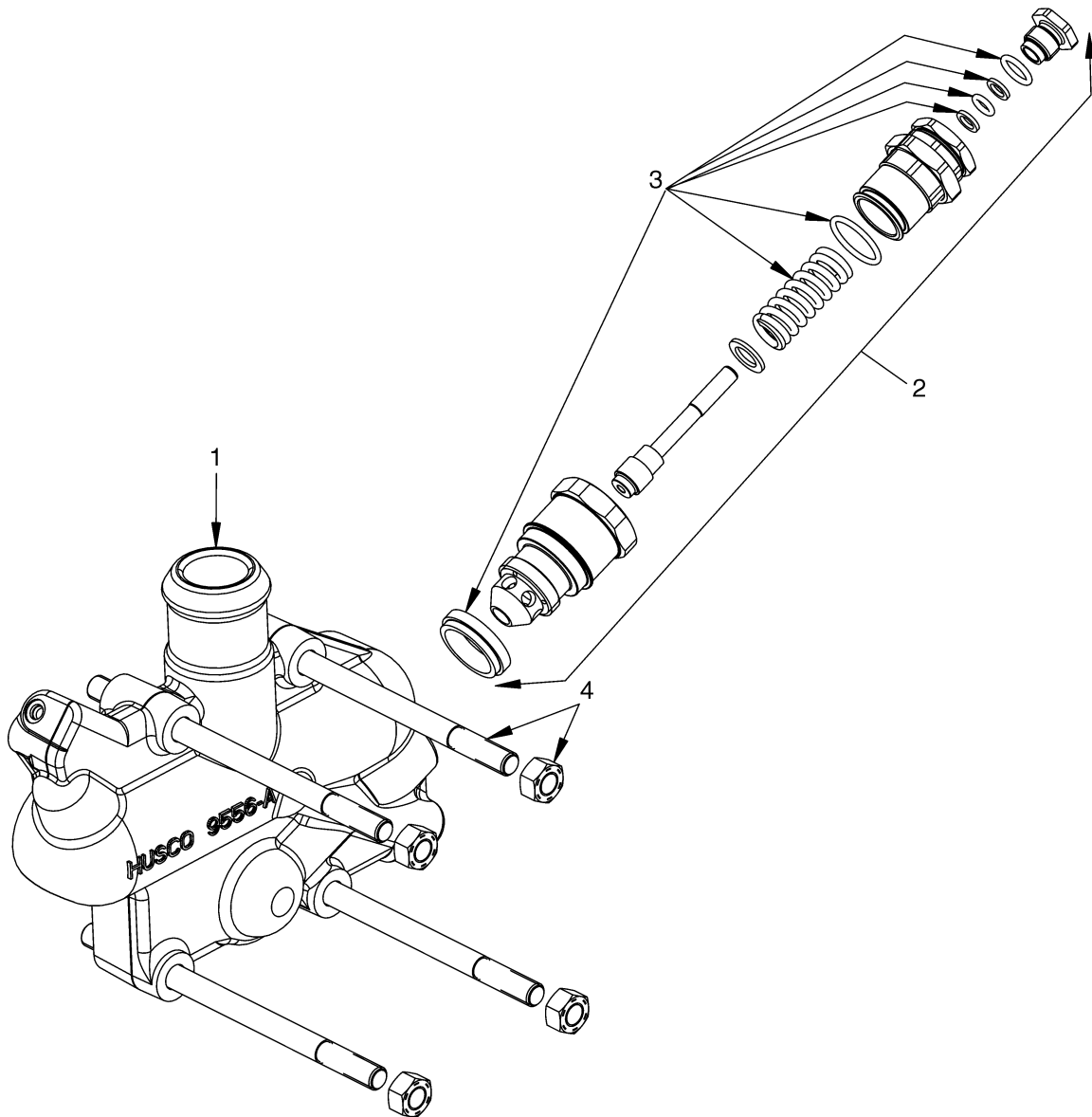
BP140153

AUXILIARY TWO SECTION
ELECTRONIC CONTROL VALVE – FOUR FUNCTION (PENDING PER ECN 10532217 →)

ITEM	PART NO.	DESCRIPTION	QTY
1	1708299	Valve Section (Auxiliary Two)	1
2	1578714	Plug	1
3	1578713	Plug	1
3	77441	Plug	1
4	77442	Spring	2
5	77443	Poppet	2
6	1578889	Plug	1
7	1578907	Kit-Seal	1
8	1578882	Spring	2
9	1578883	Washer	2
10	1664395	Capscrew	4
11	1578711	Valve (Pressure Reducing)	2
12	1578911	Kit-Seal (Steering Control Unit Interface)	2

OUTLET SECTION (FIGURE 9-26)

ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION (→ PENDING PER ECN 10532217)

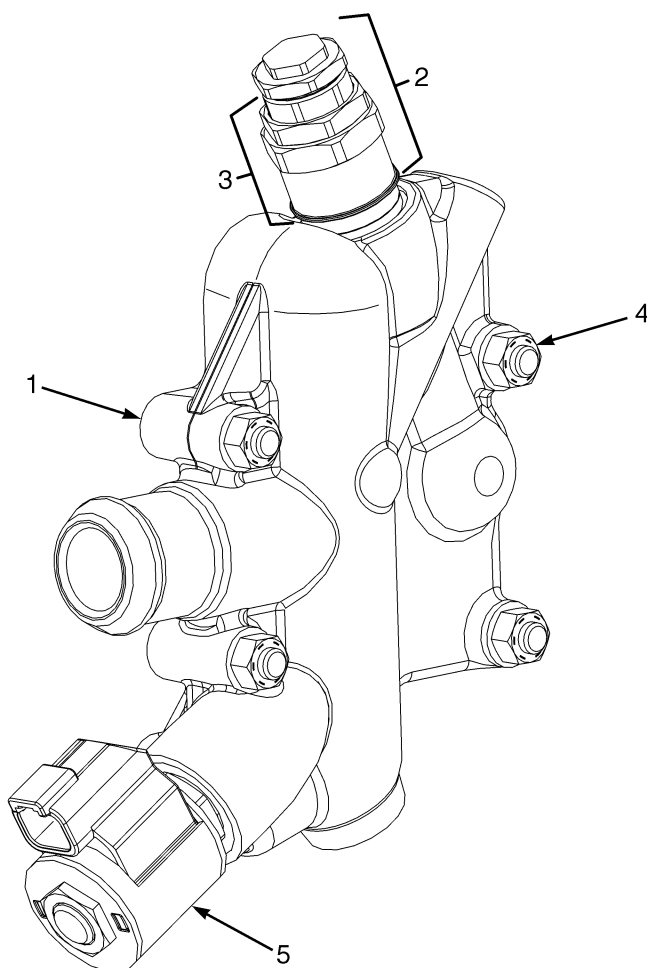


BP140075

OUTLET SECTION**ELECTRONIC CONTROL VALVE – THREE AND FOUR FUNCTION (→ PENDING PER ECN 10532217)**

ITEM	PART NO.	DESCRIPTION	QTY
1	1578704	Valve Section (Outlet)	1
2	1578707	Relief Valve (2250 PSI) (Secondary)	1
3	1580131	Kit-Seal	1
4	1578715	Kit-Tie Rod (Three Function)	1
4	1580151	Kit-Tie Rod (Four Function)	1
4	15055	Nut	4

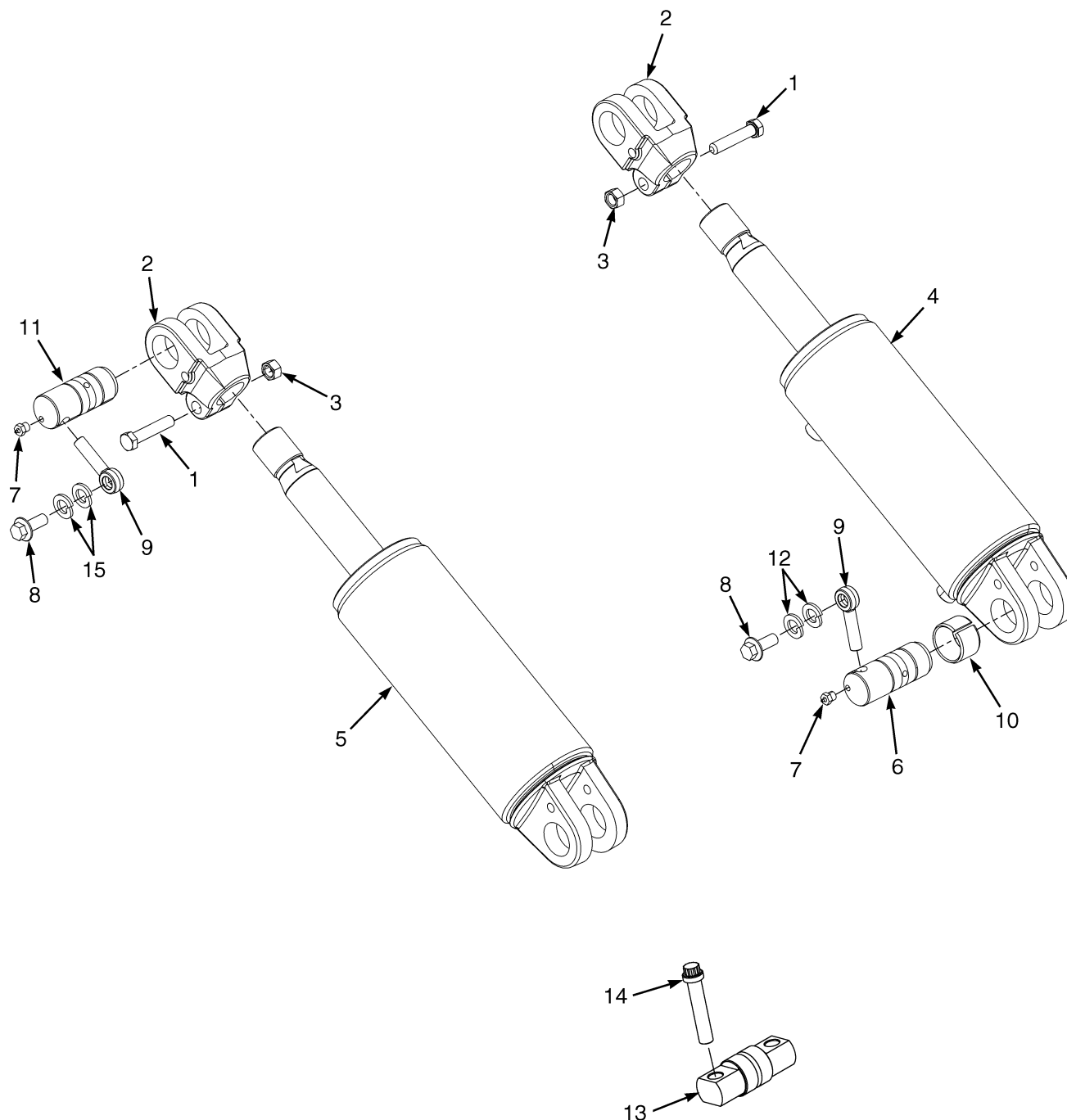
OUTLET SECTION (FIGURE 9-27)
ELECTRONIC CONTROL VALVE — THREE AND FOUR FUNCTION (PENDING PER ECN 10532217 →)



BP140167

ITEM	PART NO.	DESCRIPTION	QTY
1	1708297	Valve Section (Outlet)	1
2	1578707	Relief Valve (2250 PSI) (Secondary)	1
3	1580131	Kit-Seal	1
4	1578715	Kit-Tie Rod (Three Function)	1
4	1580151	Kit-Tie Rod (Four Function)	1
4	15055	Nut	4
5	1678165	Solenoid Valve	1
5	1684487	Kit-Seal	1

TILT CYLINDER AND MAST INSTALLATION (FIGURE 9-28)

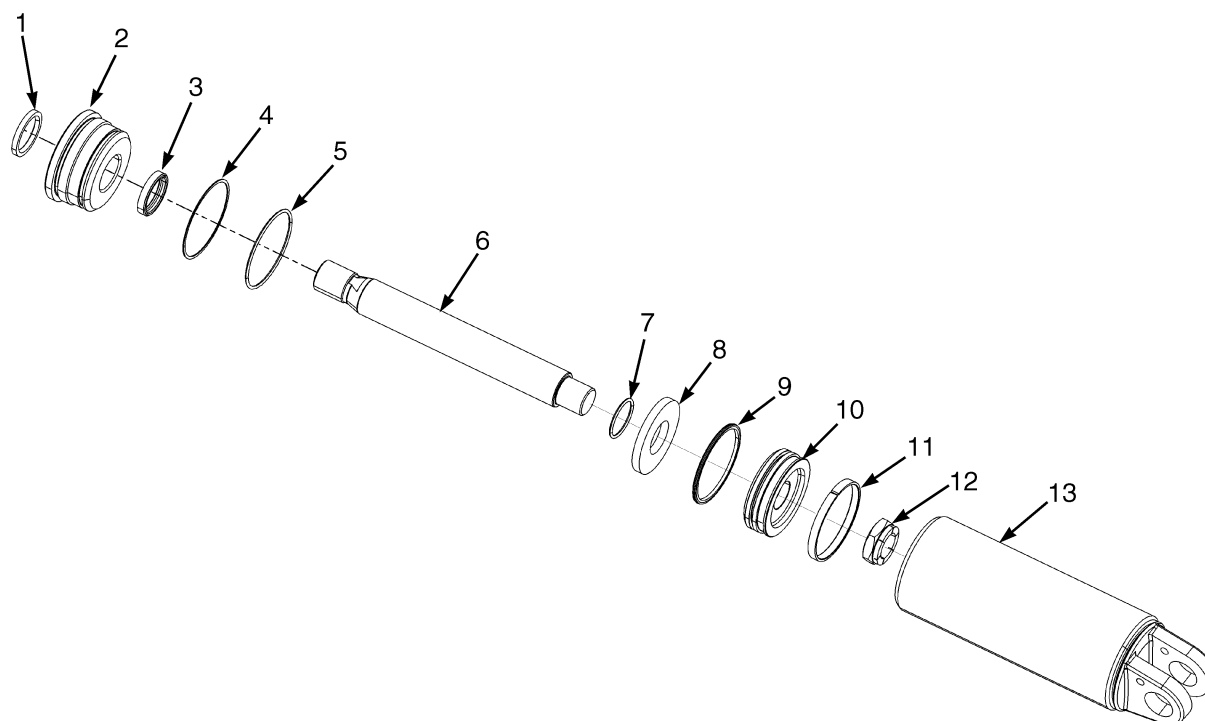


BP150341

TILT CYLINDER AND MAST INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
1	1597381	Capscrew	2
2	1566792	Rod End (Three Stage)	2
3	1581848	Nut	2
4	b 2082826	Tilt Cylinder (RH) (☞ Figure 9-29).....	1
4	a 2082827	Tilt Cylinder (RH) (☞ Figure 9-29).....	1
5	b 2090626	Tilt Cylinder (LH) (☞ Figure 9-29).....	1
5	a 2090627	Tilt Cylinder (LH) (☞ Figure 9-29).....	1
6	1611572	Pin	2
7	16001	Grease Fitting	4
8	1615240	Capscrew	4
9	241079	Anchor	2
10	1611728	Bushing	2
11	1570303	Pin	2
12	1581564	Lockwasher	2
13	1611571	Pin	2
14	293730	Capscrew	4
15	1581852	Washer	2

FOOTNOTES:**a** 5° Forward/10° Back**b** 5° Forward/6° Back

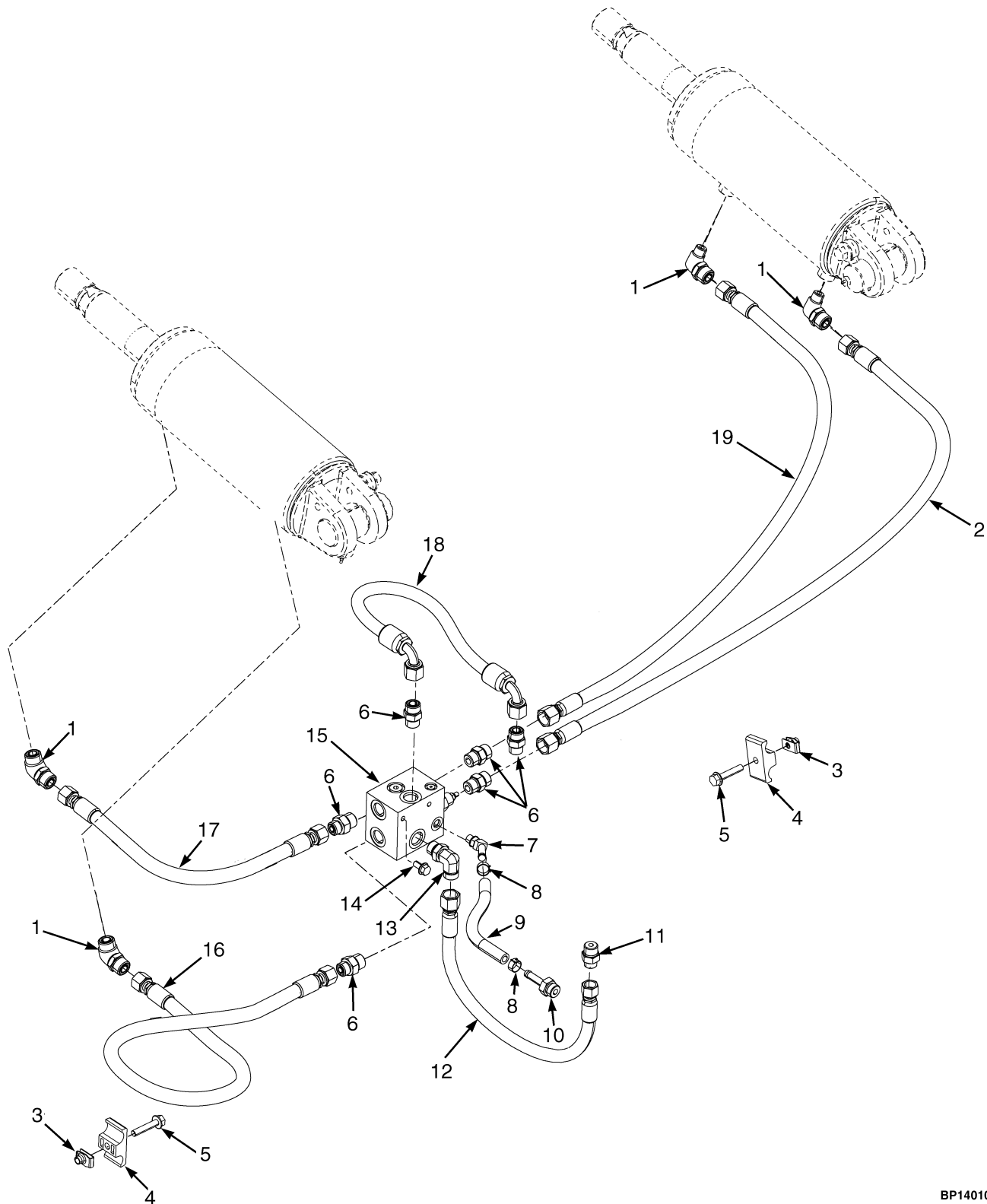
TILT CYLINDERS (FIGURE 9-29)

BP150197

TILT CYLINDERS**KEY:****A: 5 Degrees Forward/6 Degrees Back****B: 5 Degrees Forward/10 Degrees Back**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2090626	Tilt Cylinder (LH)	1	..
	2090627	Tilt Cylinder (LH)	..	1
	2082826	Tilt Cylinder (RH)	1	..
	2082827	Tilt Cylinder (RH)	..	1
1	193554	Rod Wiper	1	1
2	289969	End Plug	1	1
2	1706804	Gland (Alternate Part)	1	1
3	1381085	Rod Seal	1	1
4	1329756	Back-Up Ring	1	1
5	92482	O-Ring	1	1
5	92482	O-Ring (Alternate Part)	2	2
6	2098244	Cylinder Rod	1	..
6	2098245	Cylinder Rod	..	1
7	199082	O-Ring	1	1
8	2095852	Spacer	1	..
9	2044821	Piston Seal	1	1
10	239182	Wear Ring	1	1
11	289968	Piston	1	1
12	2036547	Locknut	1	1
13	1612451	Tube Wldmt-Cylinder (RH)	1	..
13	1612453	Tube Wldmt-Cylinder (LH)	1	..
13	1612452	Tube Wldmt-Cylinder (RH)	..	1
13	1612454	Tube Wldmt-Cylinder (LH)	..	1
	1494726	Kit-Seal	1	1

TILT HYDRAULICS (FIGURE 9-30)

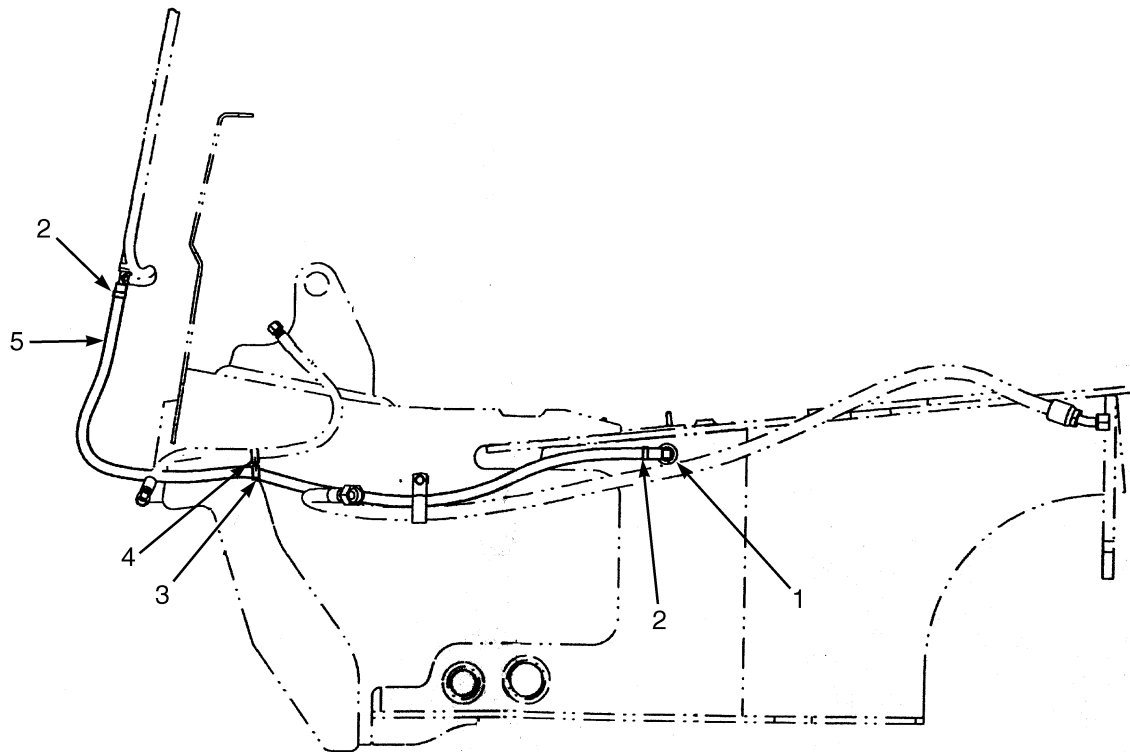


BP140101

TILT HYDRAULICS

ITEM	PART NO.	DESCRIPTION	QTY
1	1487063	Fitting	4
1	265787	O-Ring	1
1	16483	O-Ring	1
2	2091584	Hose Assy	1
3	1480237	Nut	2
4	1605479	Hose Clamp (Dual Hose)	2
5	1586627	Capscrew	2
6	1473887	Fitting	6
6	265731	O-Ring	1
6	16484	O-Ring	1
7	222500	Fitting	1
8	353198	Clamp	2
9	2095409	Hose	1
10	1650229	Fitting	1
10	16484	O-Ring	1
11	1486742	Fitting	1
11	265787	O-Ring	1
11	16484	O-Ring	1
12	2091573	Hose Assy	1
13	1473897	Fitting	1
13	265731	O-Ring	1
13	16484	O-Ring	1
14	1527879	Capscrew	2
15	1648772	Valve Block	1
15	2093476	Valve Block	1
15	1648771	Valve-Counterbalance	1
16	2091583	Hose Assy	1
17	2091582	Hose Assy	1
18	2091581	Hose Assy	1
19	2091585	Hose Assy	1

VENT LINES (FIGURE 9-31)

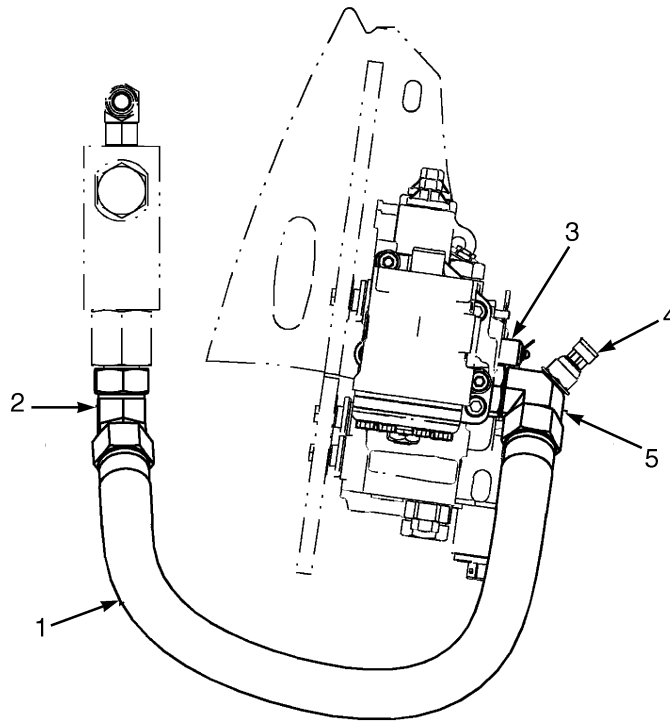


BP150202

ITEM	PART NO.	DESCRIPTION	QTY
1	222502	Fitting	1
1	a 235691	Fitting	1
1	16484	O-Ring	1
2	379405	Clamp	2
3	1502066	Clamp	1
4	1502053	Clamp (Swivel)	1
5	1399083	Hose Assy	1

FOOTNOTES:

a Used for mast removal

HOIST HOSE AND ATTACHING PARTS (FIGURE 9-32)

BP150216

ITEM	PART NO.	DESCRIPTION	QTY
1	2102655	Hose Assy	1
2	1473936	Fitting	1
3	2061646	Fitting (Diagnostic)	1
4	1605770	Fitting	1
5	1594869	Fitting	1
5	244167	O-Ring	1
5	16982	O-Ring	1

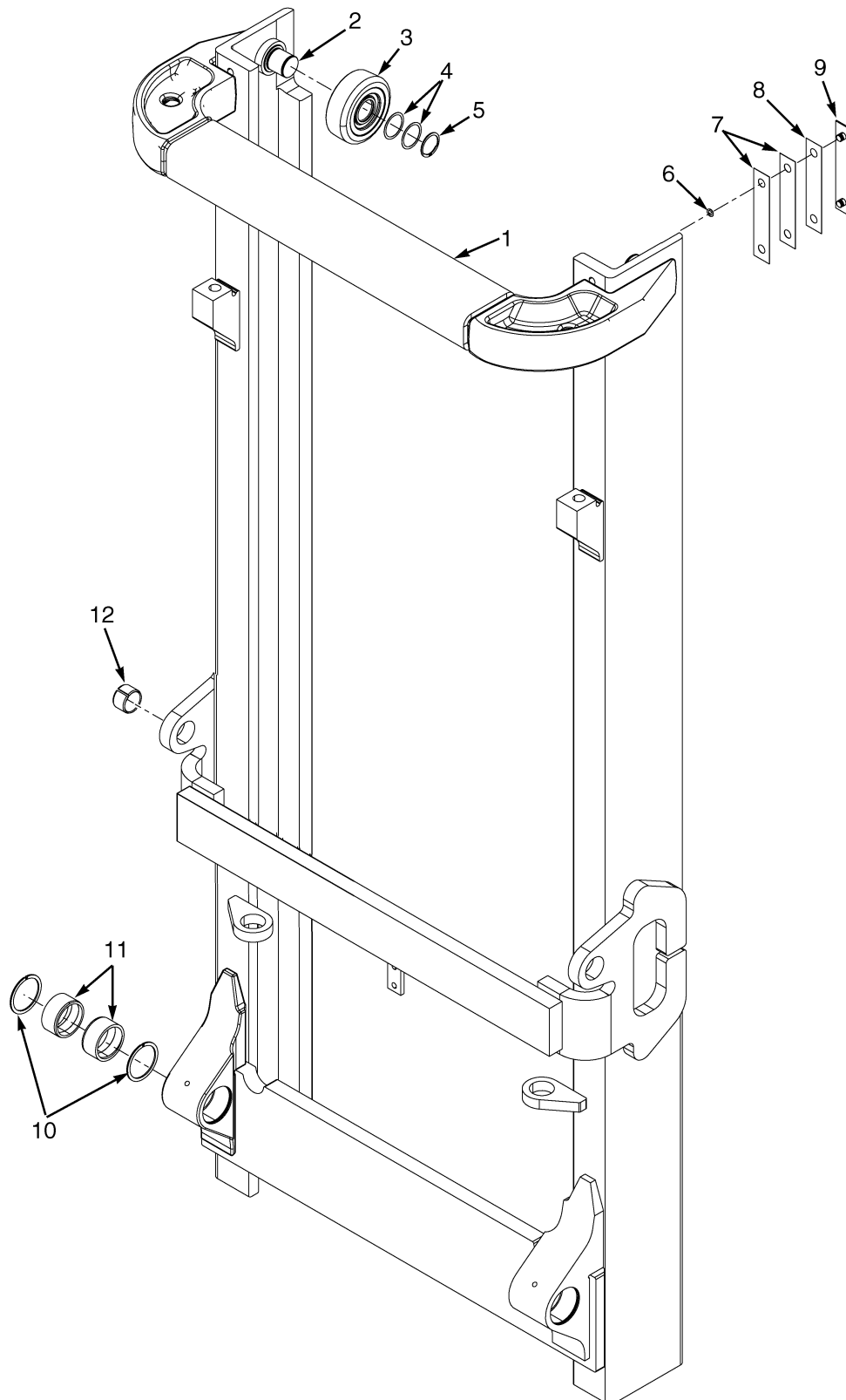
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SECTION 10

MAST-TWO STAGE LIMITED FREE-LIFT

DESCRIPTION	PAGE
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FITTINGS (PENDING PER ECN 10594308 →)	10-22
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OUTER MAST	
TWO STAGE LIMITED FREE-LIFT	10-2

OUTER MAST (FIGURE 10-1) TWO STAGE LIMITED FREE-LIFT



BP170287

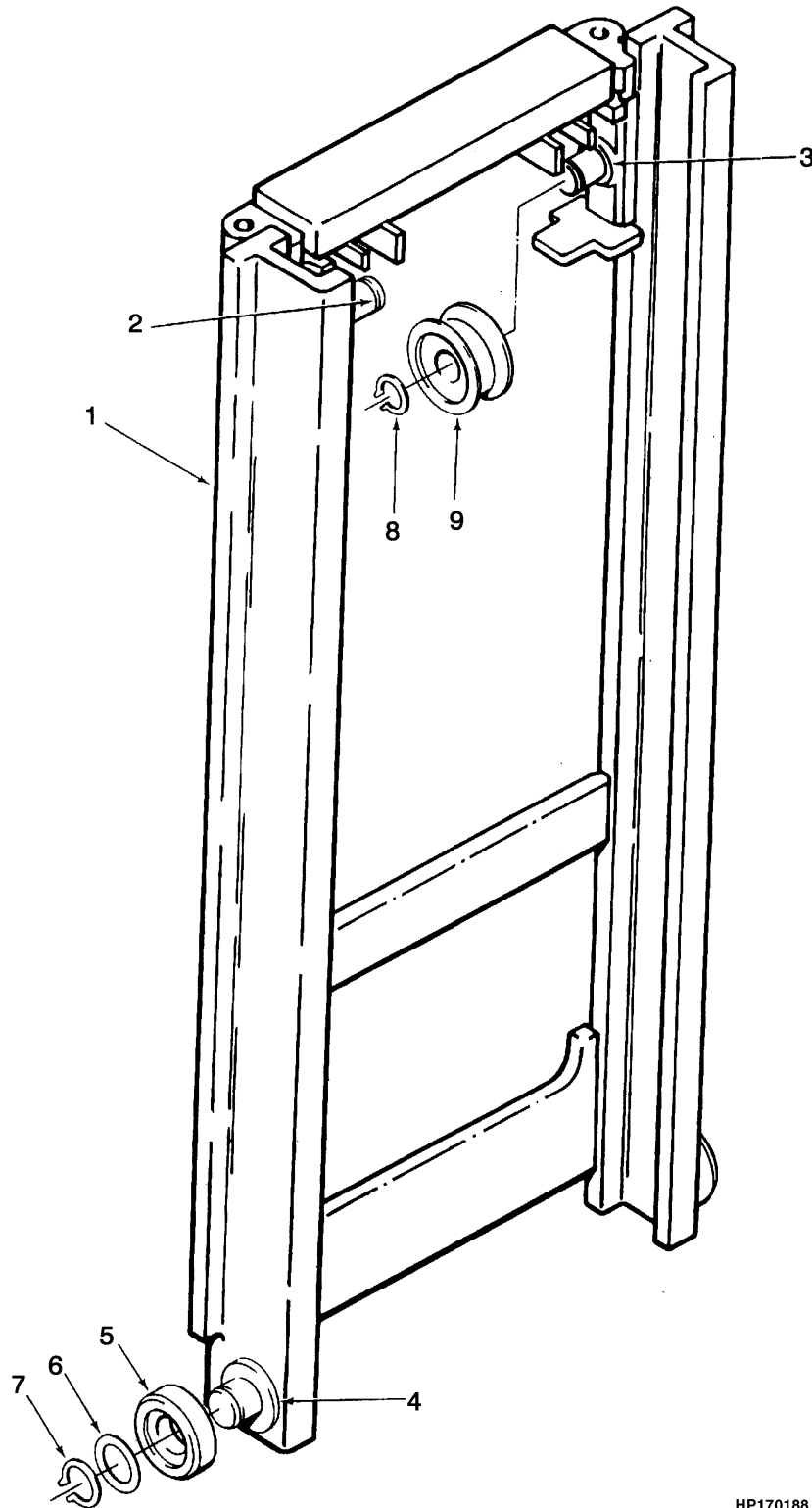
**OUTER MAST
TWO STAGE LIMITED FREE-LIFT****A613**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
	Mast Assy	2092345	2092347	2092352	2092357	2092360
1	Outer Mast	1608931	1608933	1608938	1608943	1608946

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
2	341144	Stubshaft	2
3	1333649	Load Roller	2
4	126765	Shim	AR
5	187489	Snap Ring	2
6	104506	O-Ring	4
7	161273	Shim (0.020 in.)	4
8	161272	Shim (0.007 in.)	AR
9	104264	Wear Strip	2
10	1611580	Snap Ring	4
11	1611579	Bushing	4
12	192429	Bushing	2

FOOTNOTES:**a** Refer to Table

INNER MAST (FIGURE 10-2) TWO STAGE LIMITED FREE-LIFT



HP170188

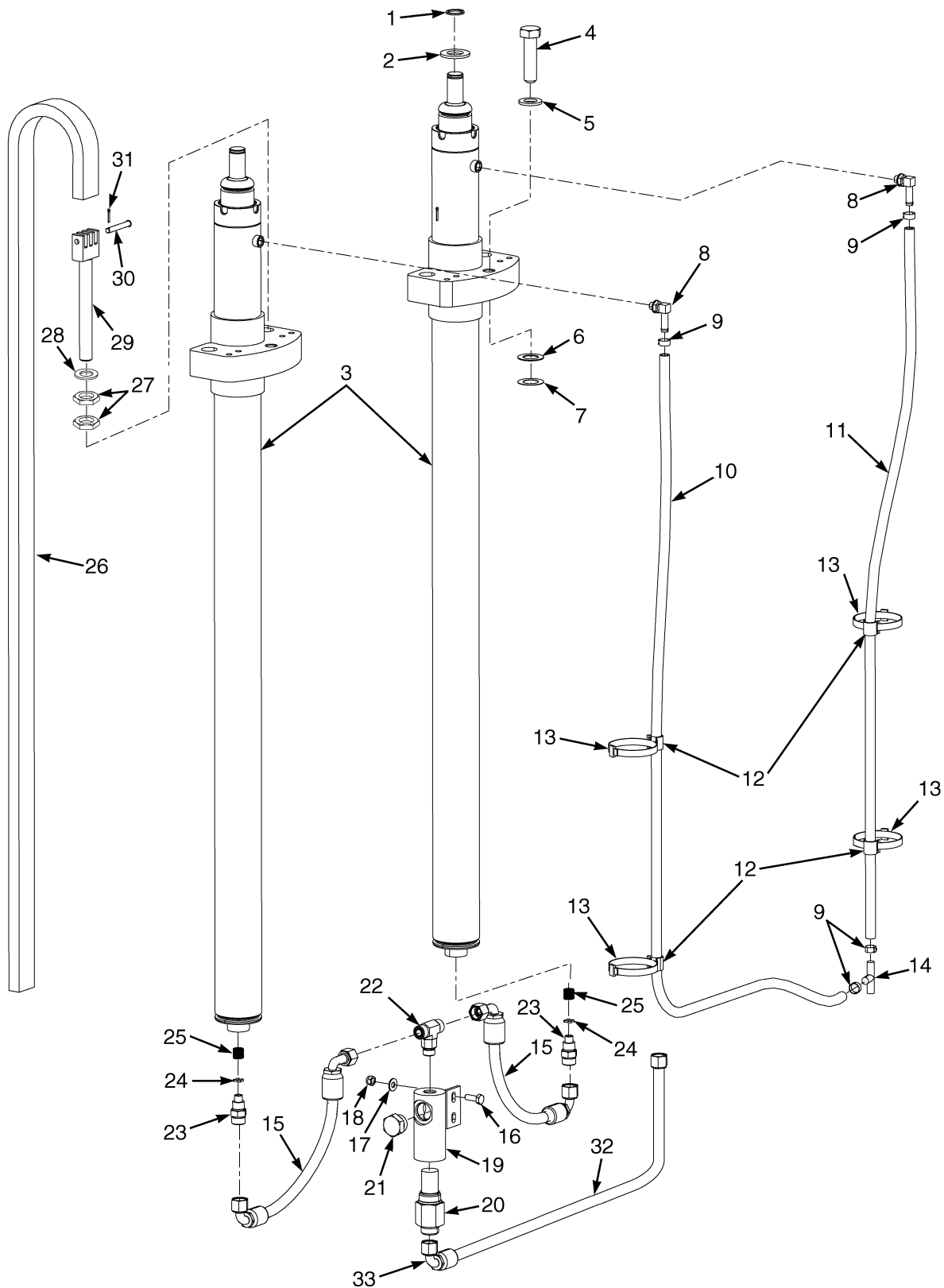
**INNER MAST
TWO STAGE LIMITED FREE-LIFT****A613**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
	Mast Assy	2092345	2092347	2092352	2092357	2092360
1	Inner Mast	1641126	341117	341118	346961	356582

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	369431	Stubshaft	1
3	369432	Stubshaft	1
4	341144	Stubshaft	2
5	a 1333649	Load Roller	2
6	126765	Shim	AR
7	187489	Snap Ring	2
8	58939	Snap Ring	2
9	346906	Chain Sheave	2

FOOTNOTES:**a** Letter on Inside Face**b** Refer to Table

MAIN LIFT (FIGURE 10-3) TWO STAGE LIMITED FREE-LIFT



BP170298

**MAIN LIFT
TWO STAGE LIMITED FREE-LIFT****A613**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
10	Hose Assy	1399109	1399117	1399137	1399157	1399174
11	Hose Assy	1399089	1399097	1399117	1399137	1399154
26	Chain	1619425	341123	341124	341053	356593

ITEM	PART NO.	DESCRIPTION	QTY
1	304523	Snap Ring	2
2	1626463	Washer	2
3		Main Cylinder (☞ Figure 10-4).....	2
4	1626460	Capscrew	2
5	1626462	Lockwasher	2
6	134675	Shim	AR
7	1325119	Shim	AR
8	110178	Fitting	2
9	379405	Clamp	4
10	a.....	Hose Assy	1
11	a.....	Hose Assy	1
12	1465585	Hose Clamp	4
13	1360529	Clamp	6
14	2046871	Fitting	1
15	2079065	Hose Assy	2
16	1581587	Capscrew	2
17	1581558	Washer	2
18	1581567	Nut	2
19	1603961	Housing	1
20	2043538	Lowering Control Valve	1
20	16983	O-Ring	1
20	244167	O-Ring	1
21	14604	Plug	1
21	16487	O-Ring	1
22	1532650	Fitting	1
23	1605087	Fitting	4
24	356598	Washer	2
25	388186	Spring	2
26	a.....	Chain	1
27	1626521	Nut	4
28	343946	Kit-Washer	2
29	1331992	Chain Anchor	2
30	1307395	Pin	2
31	15222	Cotter Pin	2
32	2102655	Hose Assy	1
33	1473936	Fitting	1

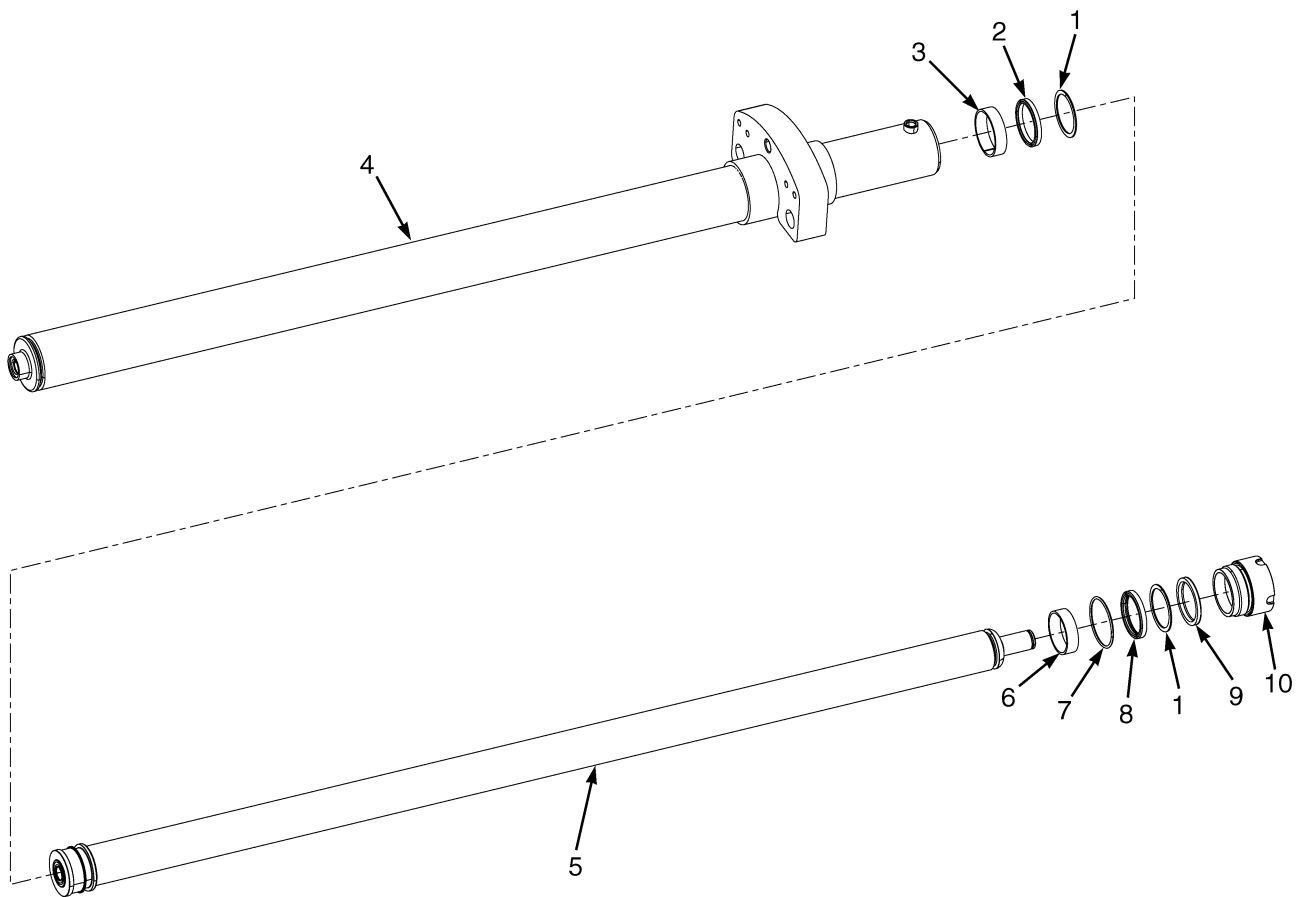
FOOTNOTES:

- a** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 10-4) TWO STAGE LIMITED FREE-LIFT



BP170274

**MAIN LIFT CYLINDER
TWO STAGE LIMITED FREE-LIFT****A613**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
	Cylinder Group Number	8609104	8609106	8609111	8609116	8609119
	Cylinder Assy	2086035	2086037	2086042	2086047	2086050
4	Tube Wldmt- Cylinder	2086006	2086008	2086031	2086017	2086020
5	Cylinder Rod	2085967	2085969	2085974	2085979	2085982

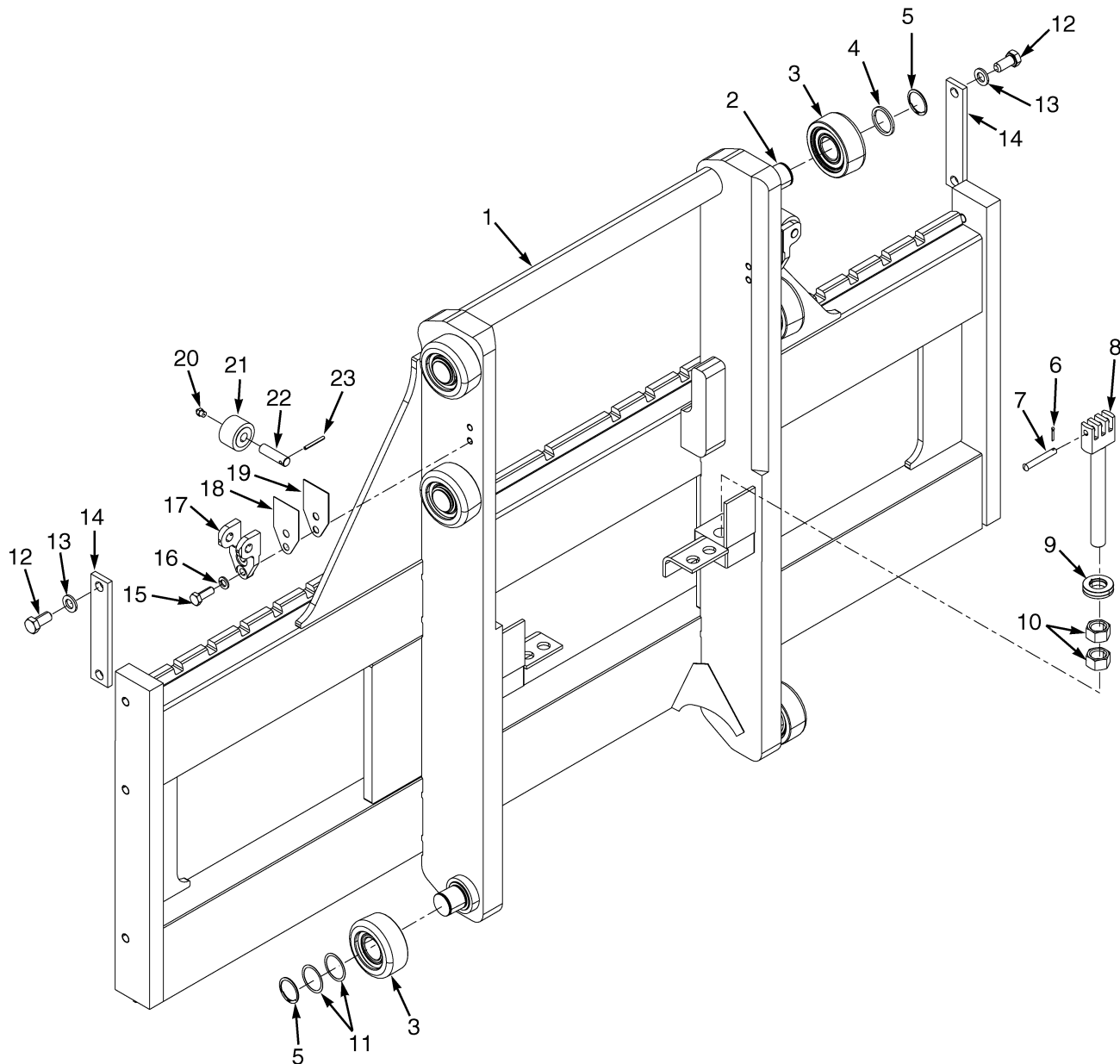
ITEM	PART NO.	DESCRIPTION	QTY
	b	Cylinder Assy	2
1	637565	Back-Up Ring	2
2	309062	Rod Seal	2
3	215345	Wear Ring	1
4	b	Tube Wldmt-Cylinder	1
5	b	Cylinder Rod	1
6	316513	Wear Ring	1
7	15880	O-Ring	1
8	2032492	Seal	1
9	1383071	Rod Wiper	1
10	1618463	Gland	1
	ac 332569	Spacer	1
	2096469	Kit-Seal	1

FOOTNOTES:

a Not Illustrated
b Refer to Table

c Used with 5940 mm Lift Height

CARRIAGE (FIGURE 10-5) TWO STAGE LIMITED FREE-LIFT — HOOK TYPE



BP170290

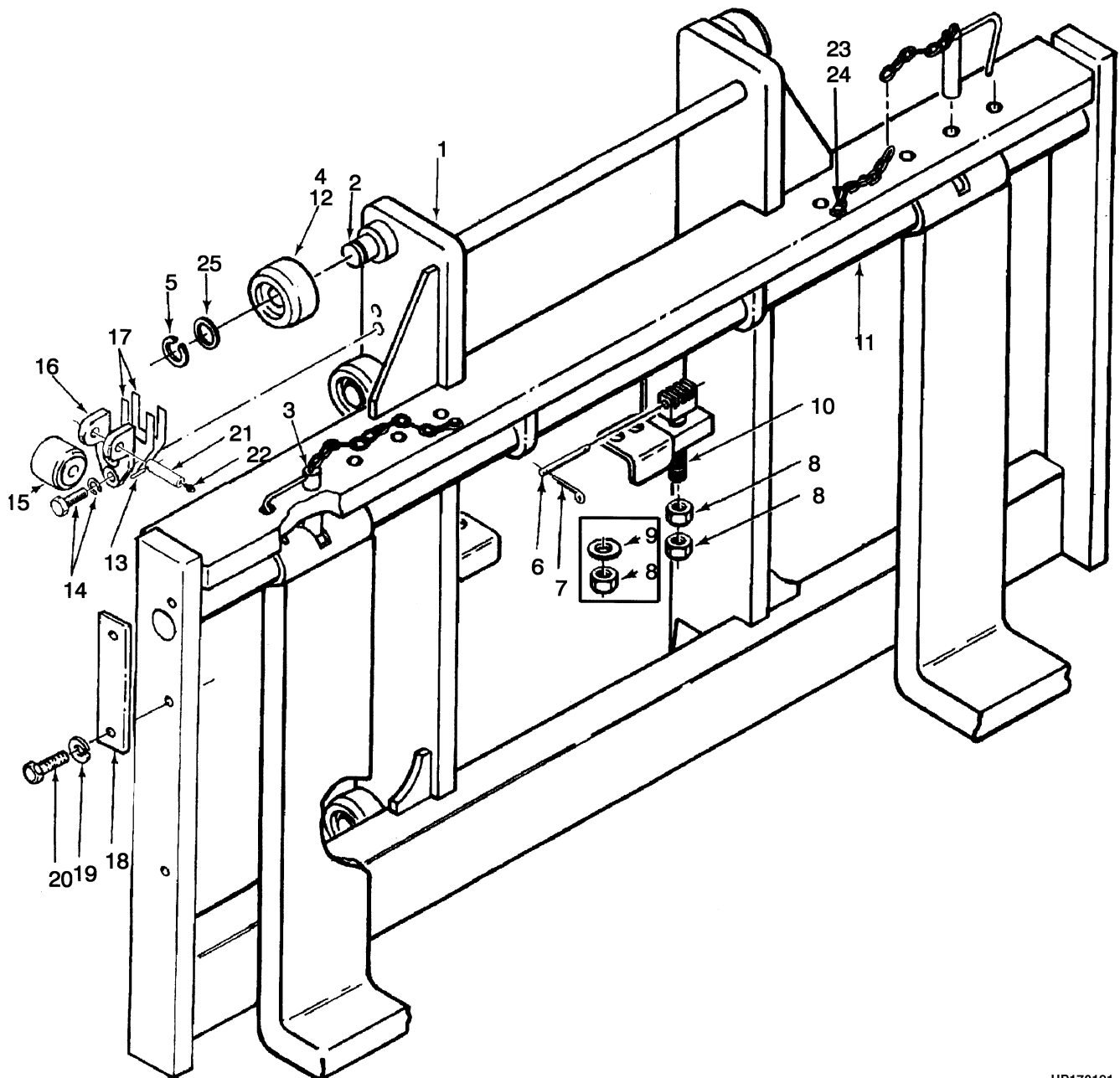
CARRIAGE

TWO STAGE LIMITED FREE-LIFT – HOOK TYPE

ITEM	PART NO.	DESCRIPTION	QTY
	2093493	Carriage	1
1	1639785	Carriage (Alternate Part)	1
2	341144	Stubshaft	6
3	a 1333648	Load Roller	6
4	366116	Spacer	2
5	187489	Snap Ring	6
6	15222	Cotter Pin	2
7	1307395	Pin	2
8	1331992	Chain Anchor	2
9	343946	Kit-Washer	2
10	1650840	Nut	4
11	126765	Shim	AR
12	1581833	Capscrew	4
13	1581854	Washer	4
14	66468	Plate	2
15	b 292528	Capscrew	4
16	b 292683	Lockwasher	4
17	b 244008	Bracket	2
18	b 192424	Shim (0.030 in.)	AR
19	b 192425	Shim (0.062 in.)	AR
20	b 16001	Grease Fitting	2
21	b 244005	Side Roller	2
22	b 244009	Pin	2
23	b 66333	Roll Pin	2

FOOTNOTES:**a** Letter on Inside Face**b** With Attachments

CARRIAGE (FIGURE 10-6) TWO STAGE LIMITED FREE-LIFT — PIN TYPE



HP170191

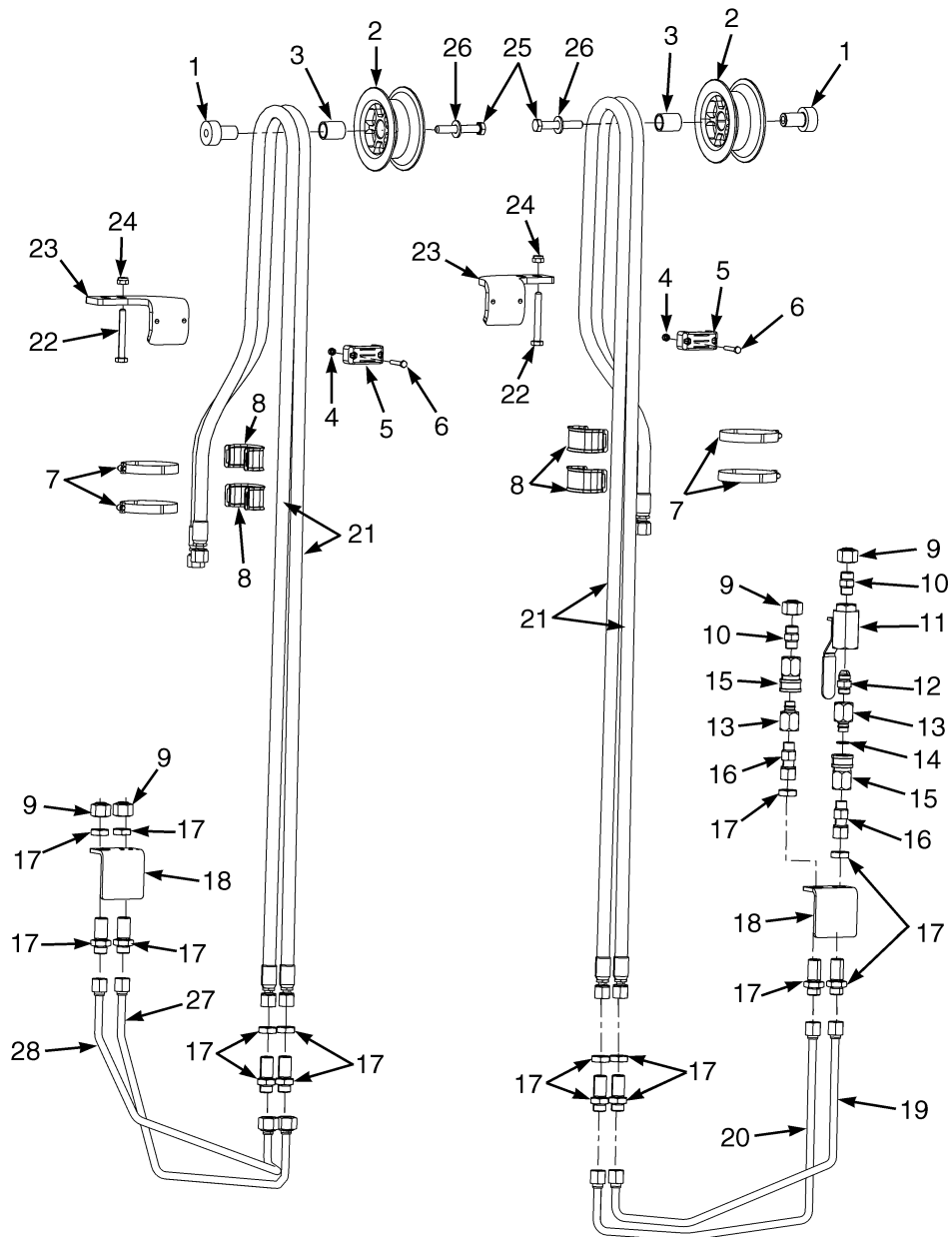
CARRIAGE

TWO STAGE LIMITED FREE-LIFT – PIN TYPE

ITEM	PART NO.	DESCRIPTION	QTY
	1318162	Carriage (78 in.)	1
1	1318167	Carriage Wldmt	1
2	341144	Stubshaft	6
3	1331269	Pin	2
4	126765	Shim	AR
5	187489	Snap Ring	6
6	1307395	Pin	2
7	15222	Cotter Pin	2
8	293723	Nut	4
9	343946	Kit-Washer	2
10	1331992	Chain Anchor	2
11	1330064	Pin	2
12	a 1333648	Load Roller (0.060 in.)	AR
13	b 66333	Roll Pin	2
14	b 292528	Capscrew	4
14	b 292683	Lockwasher	4
15	b 244005	Side Roller	2
16	b 244008	Bracket	2
17	b 192424	Shim (0.030 in.)	AR
17	b 192425	Shim (0.062 in.)	AR
18	66468	Plate	2
19	292685	Lockwasher	4
20	226458	Capscrew	4
21	b 244009	Pin	2
22	b 16001	Grease Fitting	2
23	292513	Capscrew	2
24	296420	Washer	2
25	366116	Spacer	2

FOOTNOTES:**a** Letter on Inside Face**b** Optional

HEADER HOSES AND AUXILIARY TUBE (FIGURE 10-7) TWO STAGE LIMITED FREE-LIFT



BP170291

**HEADER HOSES AND AUXILIARY TUBE
TWO STAGE LIMITED FREE-LIFT****A613**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
	Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
	Mast Assy	2092345	2092347	2092352	2092357	2092360
21	Hose Assy	2088538	2088540	2088545	2088550	2088551

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Mast Assy	1	1
1	357529	Stubshaft	1	2
2	1495279	Hose Sheave	1	2
3	332057	Bushing	1	2
4	1581565	Nut	2	4
5	2035791	Hose Clamp	1	2
6	1581578	Capscrew	2	4
7	1360508	Clamp	2	4
8	1465489	Hose Clamp	2	4
9	1529016	Fitting	2	4
10	b 1473887	Fitting	2	2
10	16484	O-Ring	1	1
10	265731	O-Ring	1	1
11	bc 2087565	Drain Valve	1	1
12	bc 16541	Fitting	1	1
12	c 16484	O-Ring	1	1
13	b 1377954	Fitting	2	2
14	b 16484	O-Ring	1	1
15	b 1377953	Quick Disconnect Fitting	2	2
16	c 1622610	Fitting	2	2
16	c 265731	O-Ring	1	1
17	816591	Fitting (Includes Nut)	4	6
17	265731	O-Ring	1	1
18	1646850	Bracket (RH and LH)	1	2
19	2095000	Tube Assy (☞Figure 10-8, ☞Figure 10-9, ☞Figure 10-10, ☞Figure 11-11, ☞Figure 11-12, ☞Figure 11-13).....	..	1
20	2095001	Tube Assy (☞Figure 10-8, ☞Figure 10-9, ☞Figure 10-10).....	..	1
21	a	Hose Assy	2	4
22	1626461	Capscrew	2	4
23	1605444	Bracket (RH)	1	1
23	1605443	Bracket (LH)	..	1
24	1581567	Nut	2	4
25	1581593	Capscrew	1	2
26	1581853	Washer	1	2

**HEADER HOSES AND AUXILIARY TUBE
TWO STAGE LIMITED FREE-LIFT****KEY:****A:** Three Function**B:** Four Function

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
27	2094999	Tube Assy (☞Figure 10-8, ☞Figure 10-9, ☞Figure 10-10).....	1	..
28	2094998	Tube Assy (☞Figure 10-8, ☞Figure 10-9, ☞Figure 10-10).....	1	..

FOOTNOTES:**a** Refer to Table**c** → PENDING PER ECN 10594308**b** With Quick Disconnect Fittings

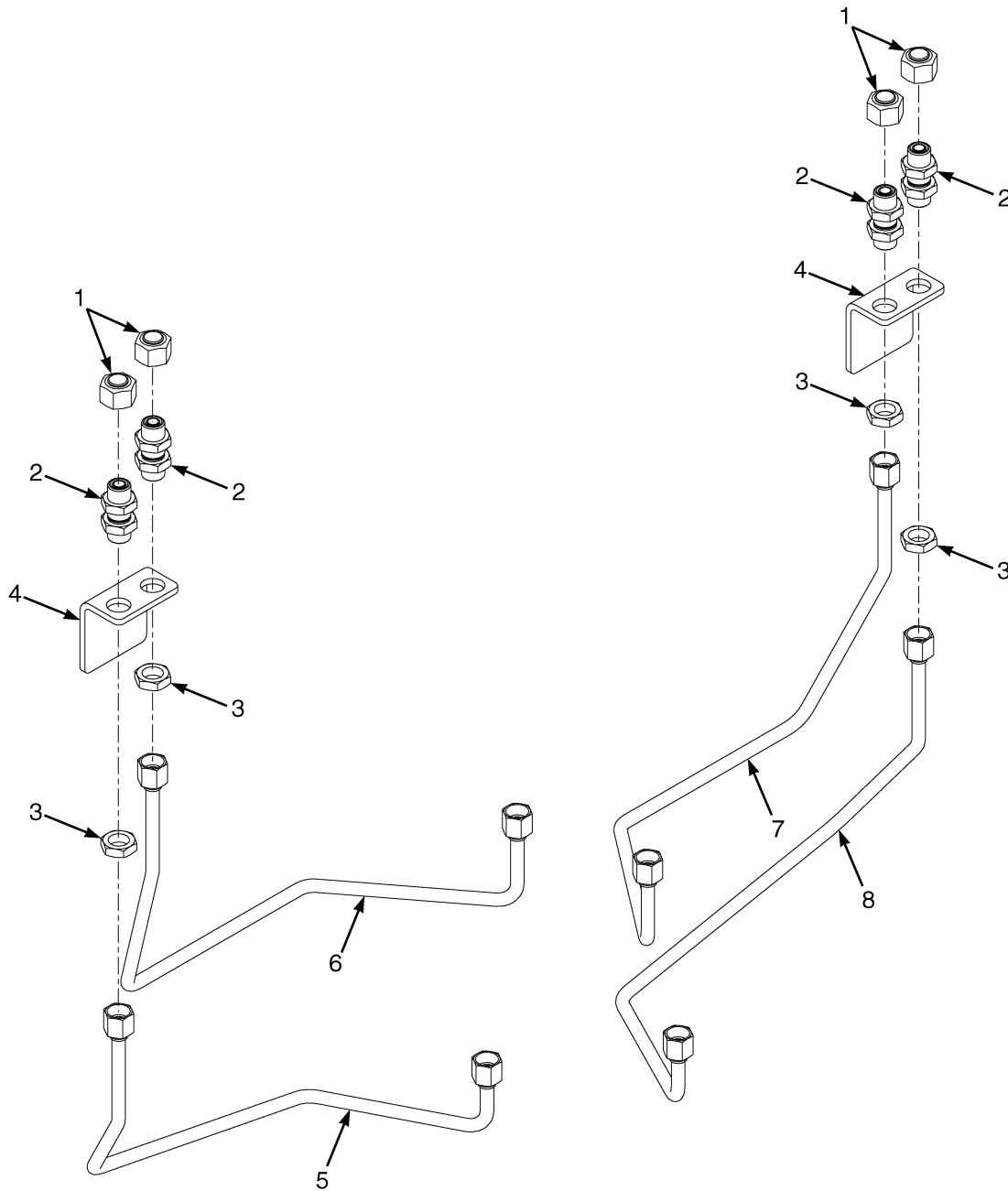
NOTES

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AUXILIARY TUBE EXTENSIONS (FIGURE 10-8)

TWO STAGE LIMITED FREE-LIFT — WITHOUT QUICK DISCONNECT FITTINGS

(PENDING PER ECN 10594308 →)



BP000526

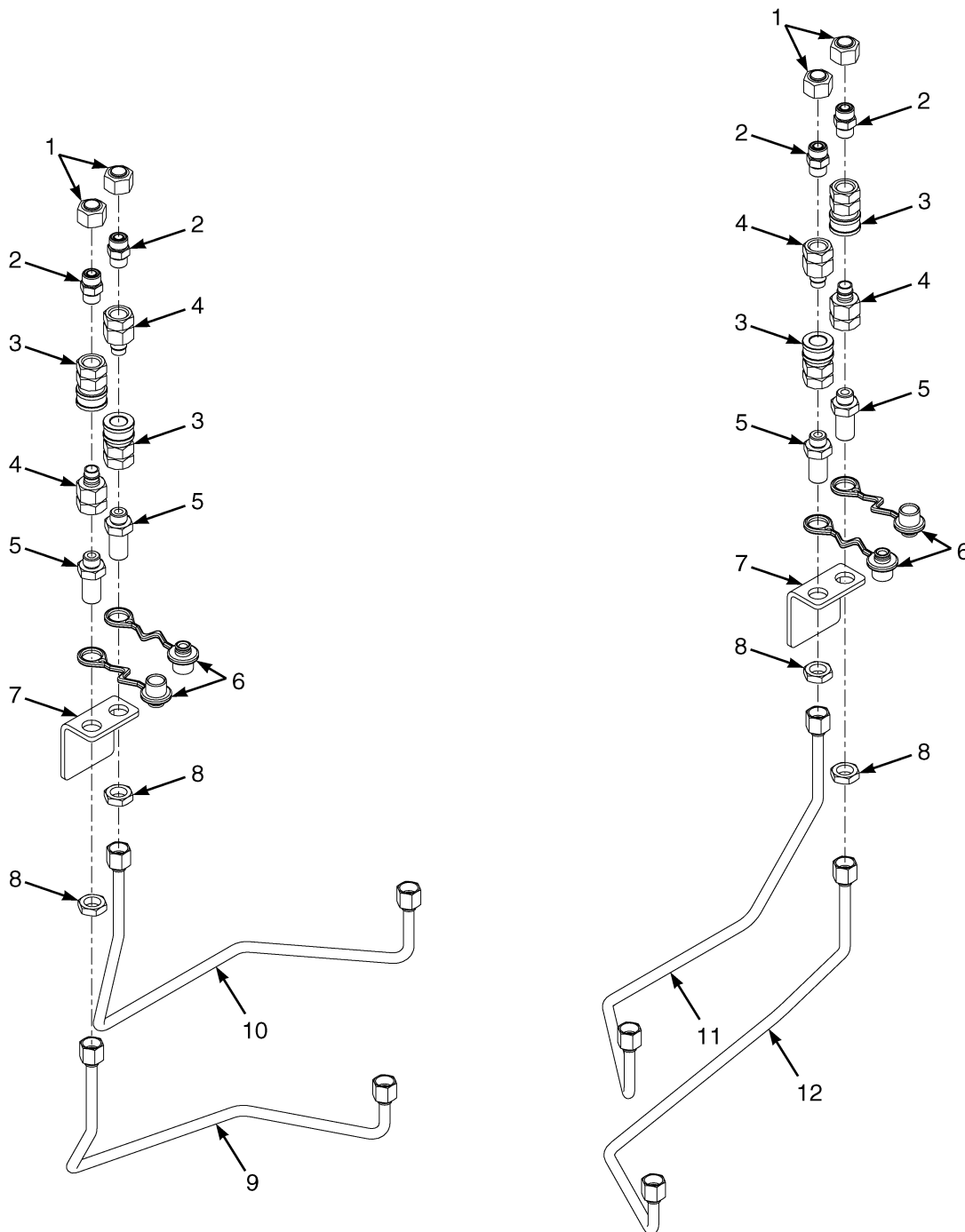
AUXILIARY TUBE EXTENSIONS
TWO STAGE LIMITED FREE-LIFT – WITHOUT QUICK DISCONNECT FITTINGS
(PENDING PER ECN 10594308 →)

KEY:**A: A613 Three Function****B: A613 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1529016	Fitting	2	4
2	816591	Fitting (Includes Nut)	2	4
3	816593	Locknut	2	4
4	1646850	Bracket (RH and LH)	1	2
5	2095000	Tube Assy	..	1
6	2095001	Tube Assy	..	1
7	2094999	Tube Assy	1	1
8	2094998	Tube Assy	1	1

AUXILIARY TUBE EXTENSIONS (FIGURE 10-9)

TWO STAGE LIMITED FREE-LIFT — MANUAL HYDRAULICS WITH QUICK DISCONNECT FITTINGS (PENDING PER ECN 10594308 →)



BP000527

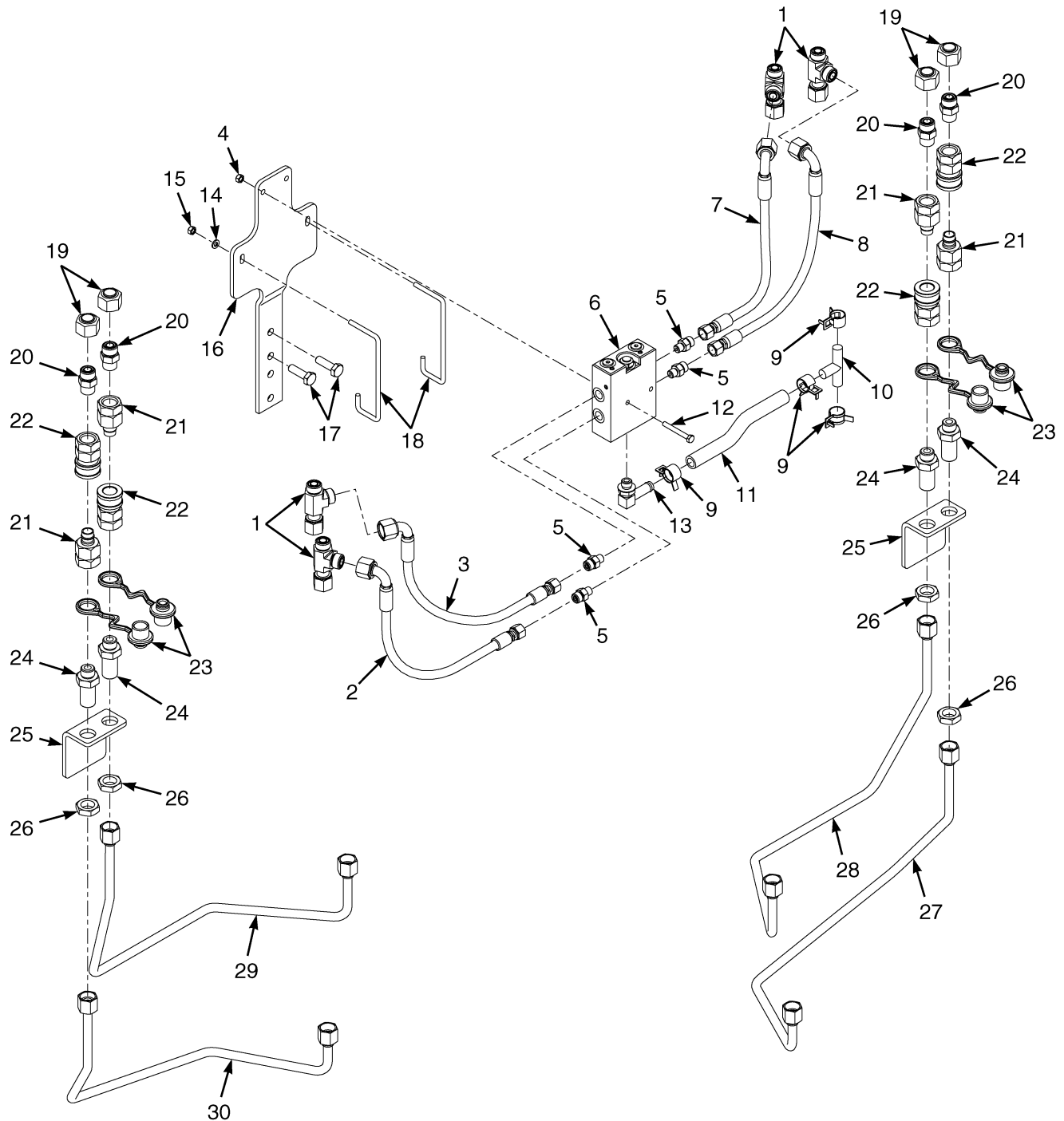
AUXILIARY TUBE EXTENSIONS
TWO STAGE LIMITED FREE-LIFT – MANUAL HYDRAULICS WITH QUICK DISCONNECT FITTINGS
(PENDING PER ECN 10594308 →)

KEY:**A: A613 Three Function****B: A613 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1529016	Fitting	2	4
2	1473887	Fitting	2	4
3	1377953	Quick Disconnect Fitting	2	4
4	1377954	Fitting (Quick Disconnect)	2	4
5	1708365	Bulkhead (Fitting)	2	4
6	1708368	Dust Cover	2	4
7	1646850	Bracket (RH and LH)	1	2
8	816593	Locknut	2	4
9	2095000	Tube Assy	..	1
10	2095001	Tube Assy	..	1
11	2094999	Tube Assy	1	1
12	2094998	Tube Assy	1	1

AUXILIARY TUBE EXTENSIONS (FIGURE 10-10)

TWO STAGE LIMITED FREE-LIFT — E-HYDRAULICS WITH QUICK DISCONNECT FITTINGS (PENDING PER ECN 10594308 →)



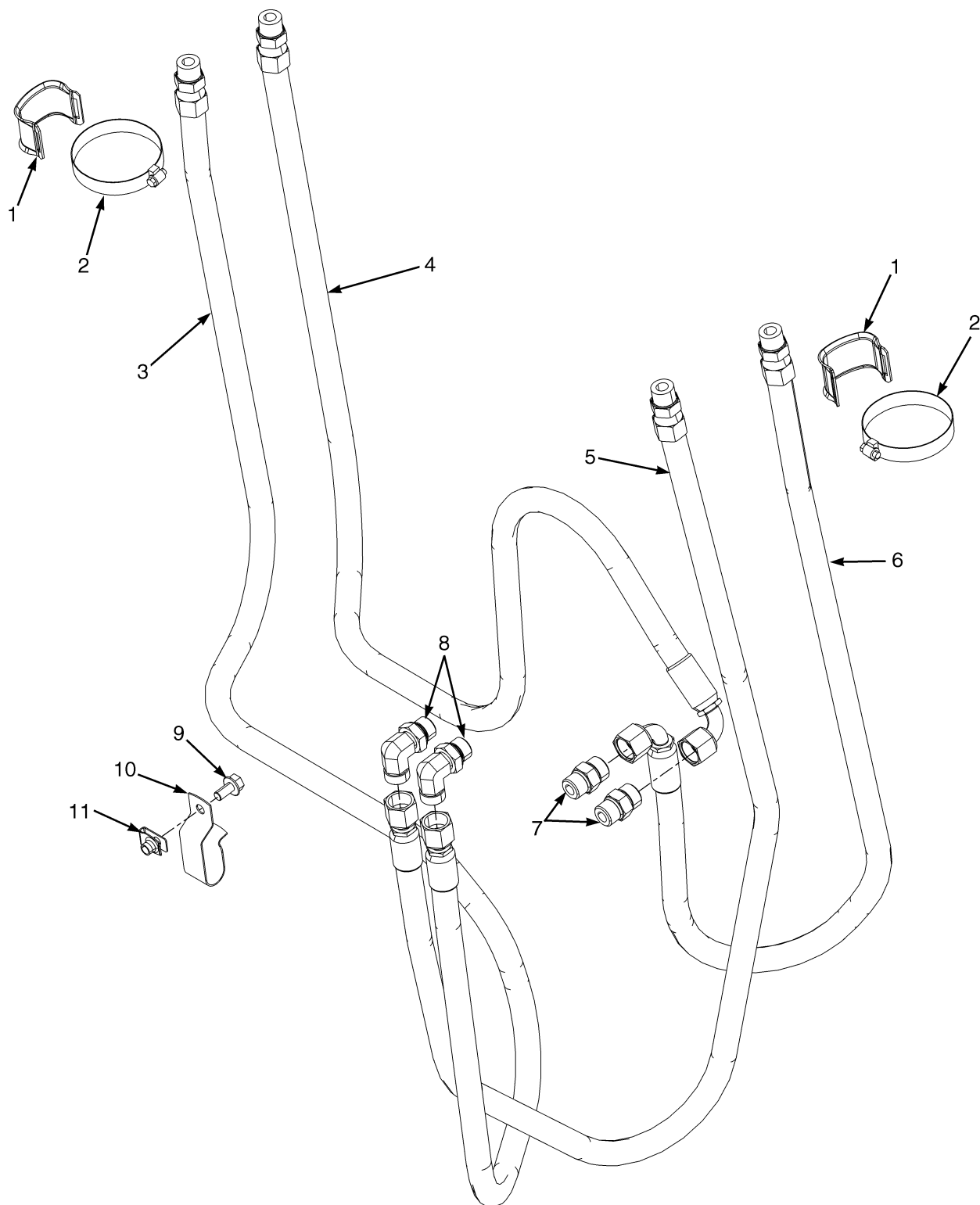
BP000528

AUXILIARY TUBE EXTENSIONS
TWO STAGE LIMITED FREE-LIFT – E-HYDRAULICS WITH QUICK DISCONNECT FITTINGS
(PENDING PER ECN 10594308 →)

KEY:**A: A613 Three Function****B: A613 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1487095	Fitting	2	4
2	4604682	Hose Assy	..	1
3	4604683	Hose Assy	..	1
4	302399	Nut	2	2
5	1486737	Fitting	2	4
6	2111754	Valve (Single Aux)	1	..
6	2111755	Valve (Dual Aux)	..	1
7	4604680	Hose Assy	1	1
8	4604683	Hose Assy	1	1
9	1527979	Hose Clamp	4	4
10	2046871	Fitting	1	1
11	1614069	Hose	1	1
12	292505	Capscrew	2	2
13	110178	Fitting	1	1
13	16483	O-Ring	1	1
14	1673754	Washer	2	2
15	302399	Nut	2	2
16	4013102	Bracket	1	1
17	1581588	Capscrew	2	2
18	4013097	Hook	2	2
19	1529016	Fitting	2	4
20	1473887	Fitting	2	4
21	1377954	Fitting (Quick Disconnect)	2	4
22	1377953	Quick Disconnect Fitting	2	4
23	1708368	Dust Cover	2	4
24	1708365	Bulkhead (Fitting)	2	4
25	1646850	Bracket (RH and LH)	1	2
26	816593	Locknut	2	4
27	2094998	Tube Assy	1	1
28	2094999	Tube Assy	1	1
29	2095001	Tube Assy	..	1
30	2095000	Tube Assy	..	1

AUXILIARY FUNCTION HOSES (FIGURE 10-11)



BP150287

AUXILIARY FUNCTION HOSES**KEY:****A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1502809	Hose Clamp	1	1
2	1360508	Clamp	1	1
3	2092396	Hydraulic Hose Asm	..	1
4	2092397	Hydraulic Hose Asm	..	1
5	2076301	Hydraulic Hose Asm (3rd Function)	1	..
6	2076302	Hydraulic Hose Asm (3rd Function)	1	..
7	1473887	Fitting	1	1
8	1473897	Fitting	1	1
9	1527879	Capscrew	..	1
10	1544157	Clip	..	1
11	1480237	Nut	..	1

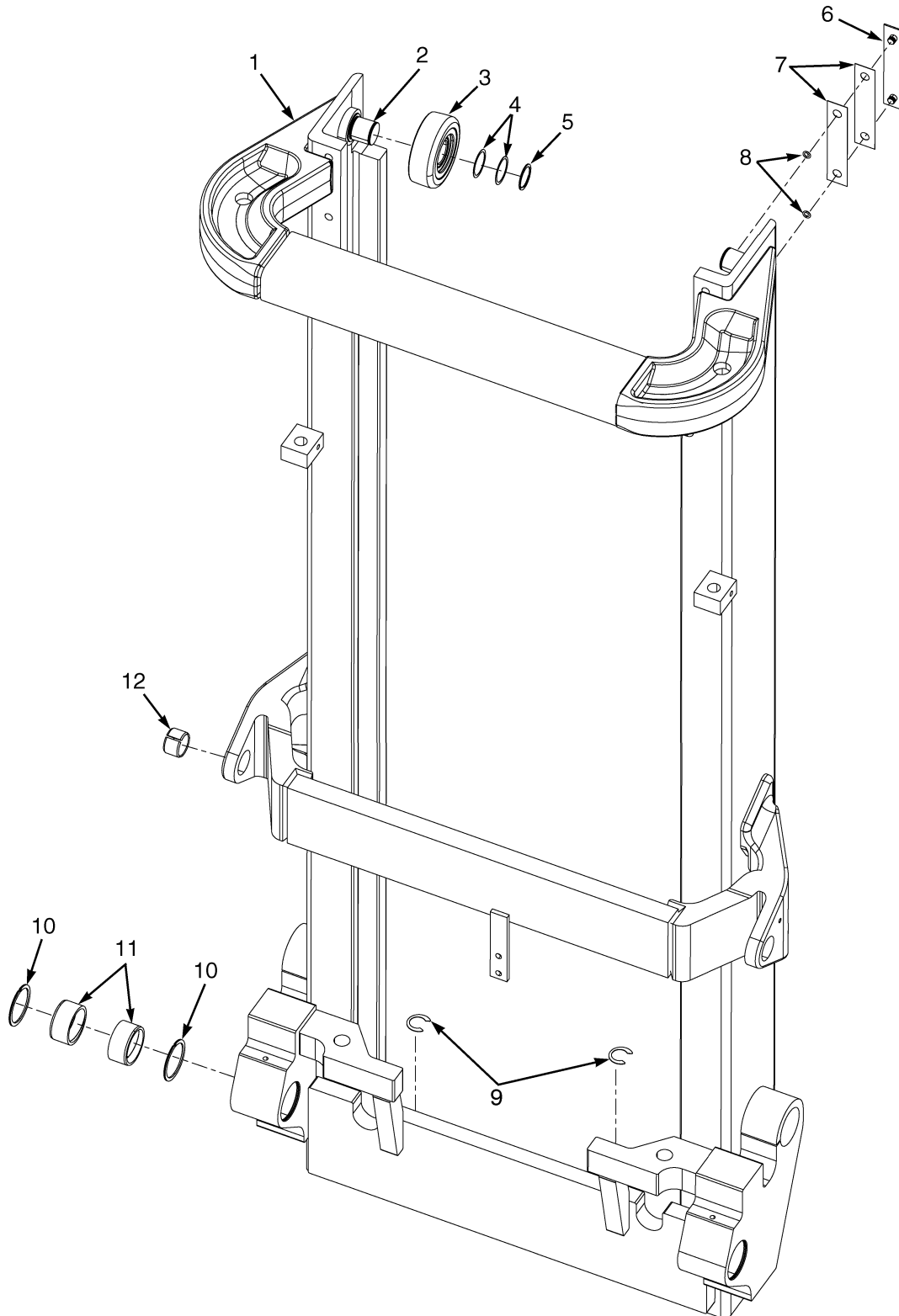
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SECTION 11

MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
AUXILIARY TUBE EXTENSIONS	
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OUTER MAST (FIGURE 11-1) THREE STAGE FULL FREE-LIFT



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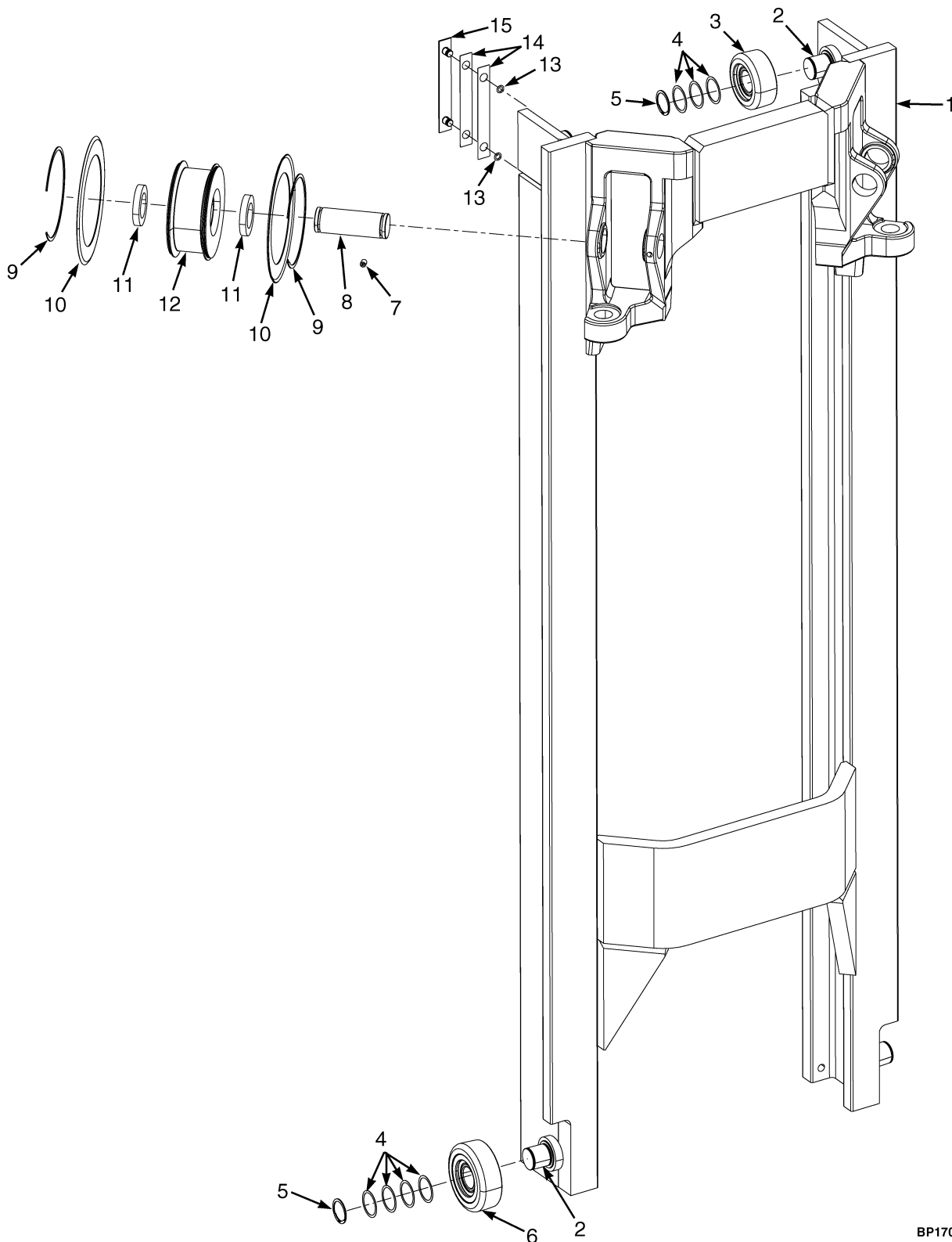
**OUTER MAST
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
	Mast Assy	2092372	2092375	2092377
1	Outer Mast	1608961	1608964	1608966

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
2	341144	Stubshaft	2
3	1333649	Load Roller	2
4	126765	Shim	AR
5	187489	Snap Ring	2
6	104264	Wear Strip	2
7	161273	Shim (0.020 in.)	AR
8	104506	O-Ring	2
9	1344753	Shim	AR
10	1611580	Snap Ring	4
11	1611579	Bushing	4
12	192429	Bushing	2

FOOTNOTES:**a** Refer to Table

INTERMEDIATE MAST (FIGURE 11-2) THREE STAGE FULL FREE-LIFT



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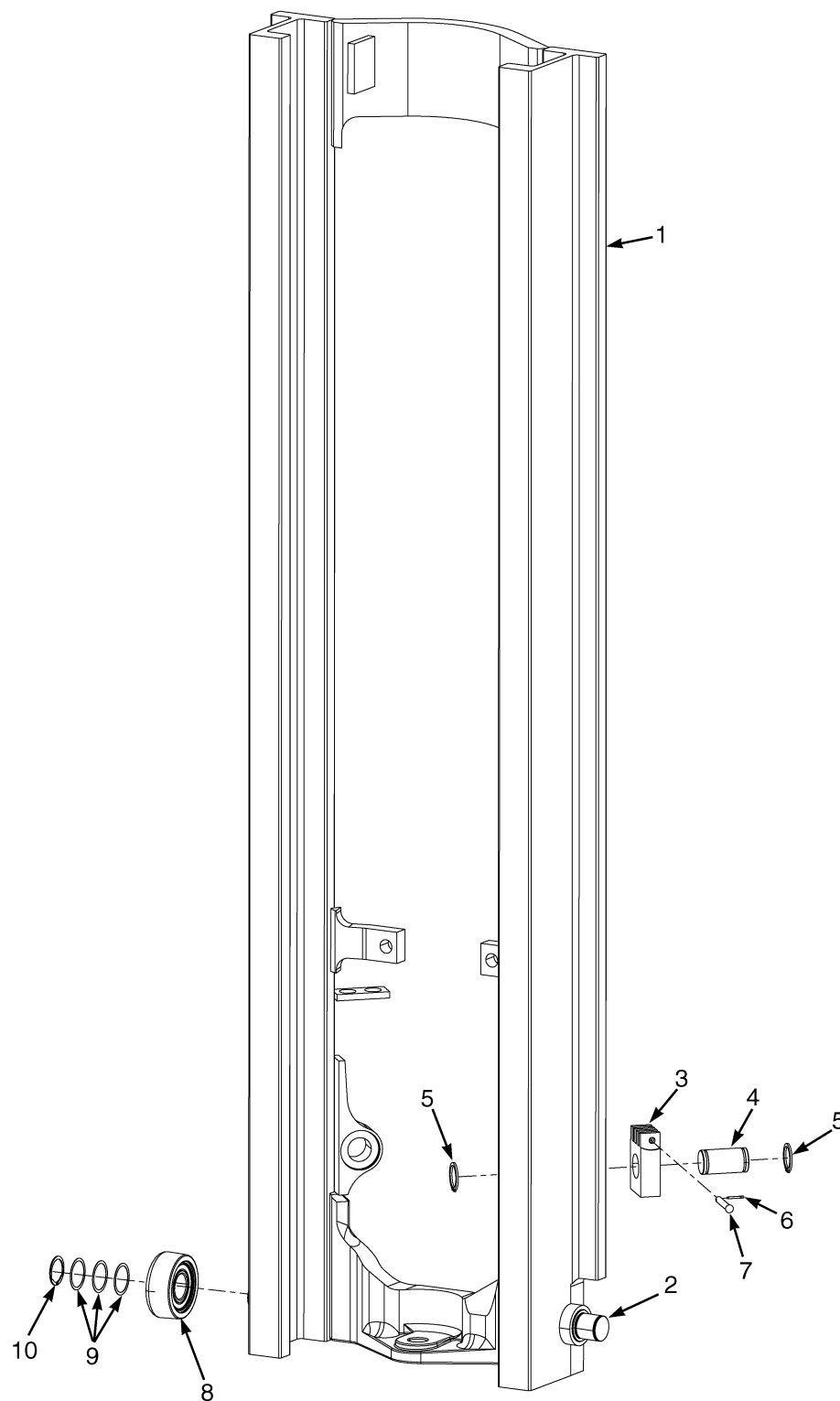
**INTERMEDIATE MAST
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
	Mast Assy	2092372	2092375	2092377
1	Intermediate Mast	1619178	364204	1619182

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Intermediate Mast	1
2	341144	Stubshaft	4
3	1333648	Load Roller	2
4	126765	Shim	AR
5	187489	Snap Ring	4
6	1333649	Load Roller	2
7	302105	Setscrew	2
8	366496	Pin	2
9	362953	Snap Ring	4
10	362950	Plate	4
11	362356	Spacer	4
12	362352	Chain Sheave	2
13	104506	O-Ring	4
14	131716	Shim (0.020 in.)	AR
15	215211	Wear Strip	2

FOOTNOTES:**a** Refer to Table

INNER MAST (FIGURE 11-3) THREE STAGE FULL FREE-LIFT



BP170279

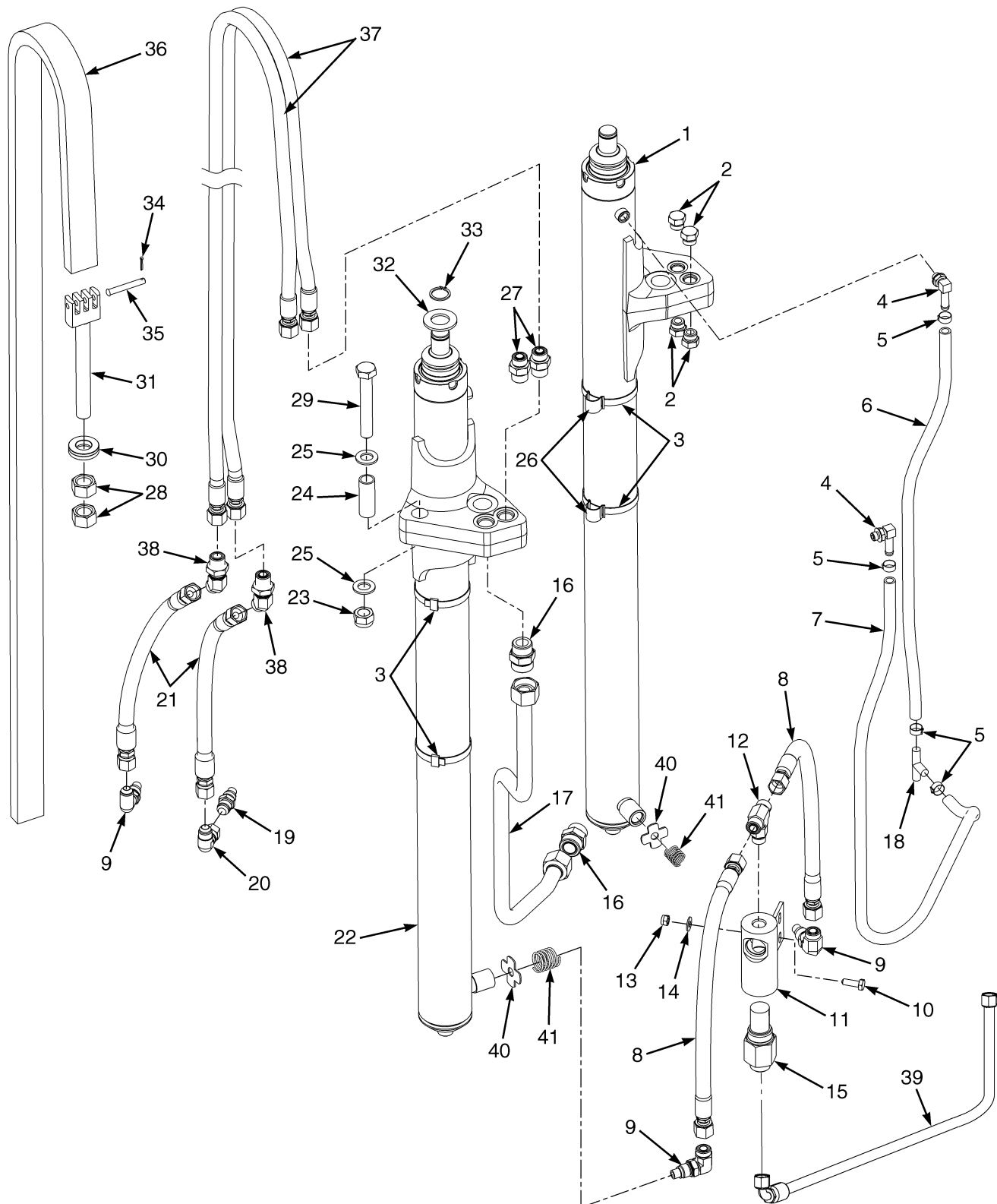
**INNER MAST
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
	Mast Assy	2092372	2092375	2092377
1	Inner Mast	1619230	1313811	1619234

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Inner Mast	1
2	381389	Stubshaft	2
3	358305	Chain Anchor	2
4	349320	Pin	2
5	122400	Snap Ring	4
6	15222	Cotter Pin	4
7	1307395	Pin	2
8	1333648	Load Roller	2
9	126765	Shim	AR
10	187489	Snap Ring	2

FOOTNOTES:**a** Refer to Table

MAIN LIFT (FIGURE 11-4) THREE STAGE FULL FREE-LIFT



BP170299

**MAIN LIFT
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
		A614 4640	A614 5540	A614 6140
6	Hose Assy	1399077	1399089	1399099
7	Hose Assy	1399096	1399108	1399118
17	Tube Weldment	2085503	2085506	2085508
36	Chain	1619430	366523	1619436
37	Hose Assy	2086090	2079000	2086094

ITEM	PART NO.	DESCRIPTION	QTY
1		Lift Cylinder (RH) (☞ Figure 11-5).....	1
2	216590	Fitting	4
2	16485	O-Ring	1
3	1360529	Clamp	4
4	110178	Fitting	2
4	16483	O-Ring	1
5	379405	Clamp	4
6	a.....	Hose Assy	1
7	a.....	Hose Assy	1
8	2061806	Hose Assy	2
9	189595	Fitting	3
9	16485	O-Ring	1
10	1581587	Capscrew	2
11	1603961	Housing	1
12	16578	Fitting	1
12	16485	O-Ring	1
13	1581567	Nut	2
14	1581558	Washer	2
15	2043538	Lowering Control Valve	1
16	1473889	Fitting	2
16	244167	O-Ring	1
16	16487	O-Ring	1
17	a.....	Tube Weldment	1
18	2046871	Fitting	1
19	184799	Fitting	1
19		O-Ring	1
20	16882	Fitting	1
21	2079066	Hose Assy	2
22		Lift Cylinder (LH) (☞ Figure 11-5).....	1
23	1626491	Nut	4
24	372389	Spacer	2
25	1626490	Washer	8
26	1465585	Hose Clamp	4
27	1486751	Fitting	2

MAIN LIFT THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
27	16486	O-Ring	1
27	252729	O-Ring	1
28	1626521	Nut	4
29	1626459	Capscrew	4
30	343946	Kit-Washer	2
31	1331992	Chain Anchor	2
32	1626463	Washer	2
33	304523	Snap Ring	2
34	15222	Cotter Pin	4
35	1307395	Pin	2
36	a	Chain	2
37	a	Hose Assy	1
38	1528589	Fitting	2
38	252729	O-Ring	2
39	2092558	Hose Assy	1
39	2102655	Hose Assy	1
40	320334	Washer	2
41	388186	Spring	2

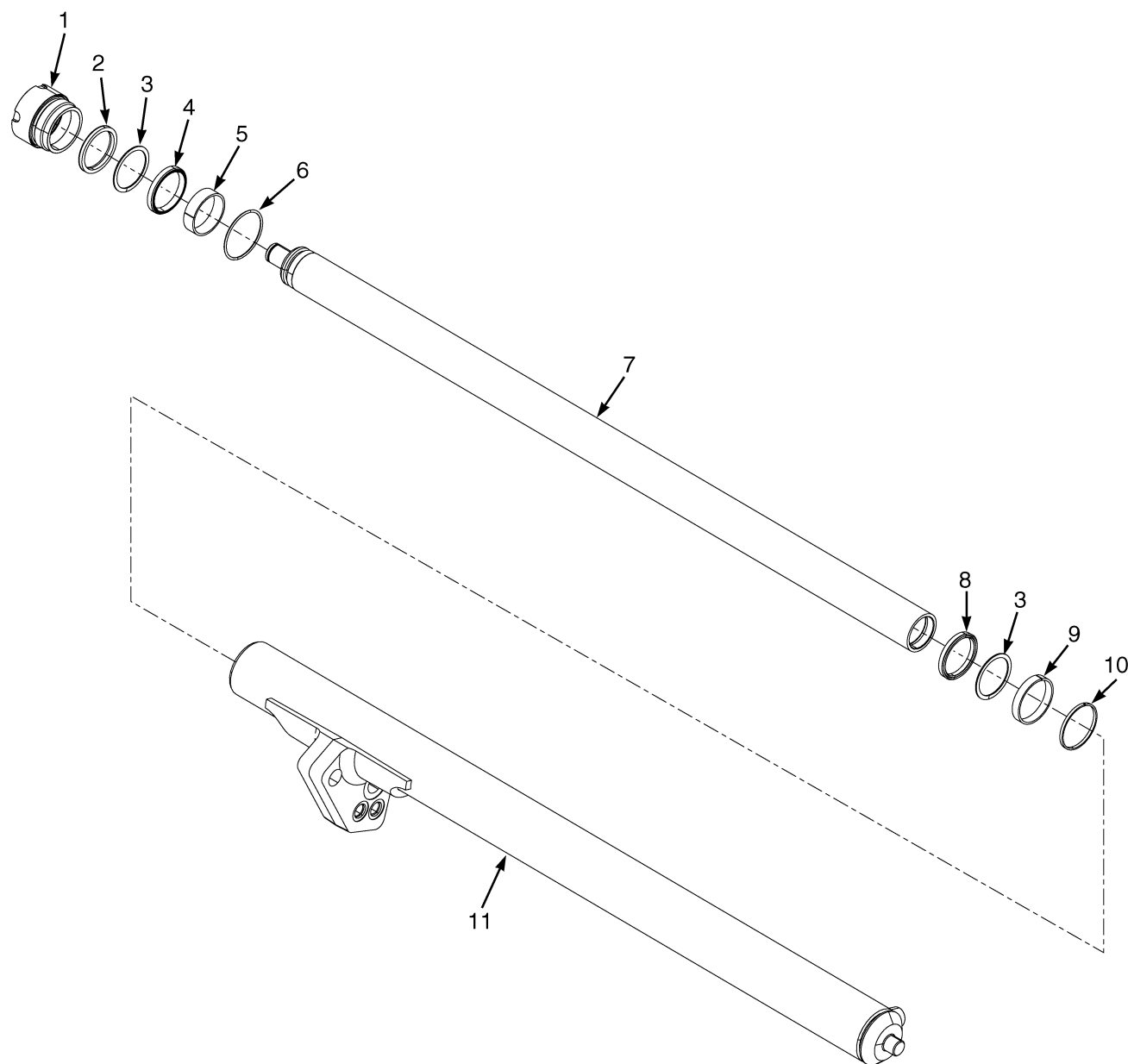
FOOTNOTES:

a Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDERS (FIGURE 11-5) THREE STAGE FULL FREE-LIFT



BP170281

**MAIN LIFT CYLINDERS
THREE STAGE FULL FREE-LIFT****LEFT HAND**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
		A614 4640	A614 5540	A614 6140
	Cylinder Assy	8609204	8609207	8609209
	Cylinder Rod	2087972	2087975	2087977
7	Cylinder Rod	2087904	2087921	2087908
11	Tube Wldmt- Cylinder	2087932	2087935	2087937
12	Spacer	----	----	383824

RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
		A614 4640	A614 5540	A614 6140
	Cylinder Assy	8609254	8609257	8609259
	Cylinder Rod	2087993	2087996	2087998
7	Cylinder Rod	2087904	2087921	2087908
11	Tube Wldmt- Cylinder	2087951	2087954	2087955
12	Spacer	----	----	383824

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	1618463	Gland	2
2	1383071	Rod Wiper	2
3	637565	Back-Up Ring	2
4	1381089	Rod Seal	2
5	316513	Wear Ring	2
6	15880	O-Ring	2
7	a	Cylinder Rod	2
8	309062	Rod Seal	2
9	636941	Wear Ring	2
10	364233	Piston Ring	2
11	a	Tube Wldmt-Cylinder	2
12	a	Spacer	2
	2093817	Kit-Seal	1

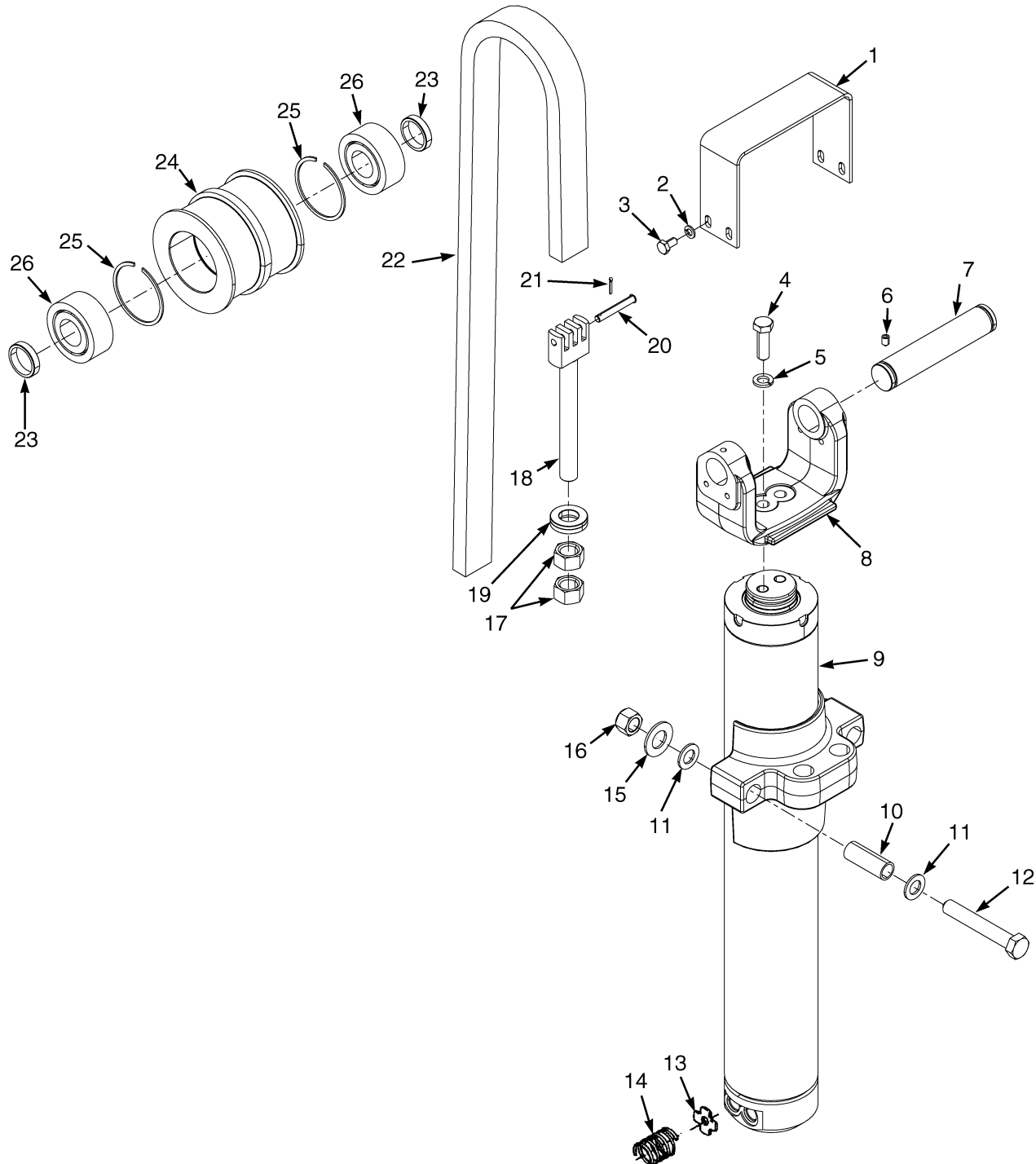
FOOTNOTES:

- a** Refer to Table

NOTES

[illegible]

FREE-LIFT (FIGURE 11-6) THREE STAGE FULL FREE-LIFT



BP170282

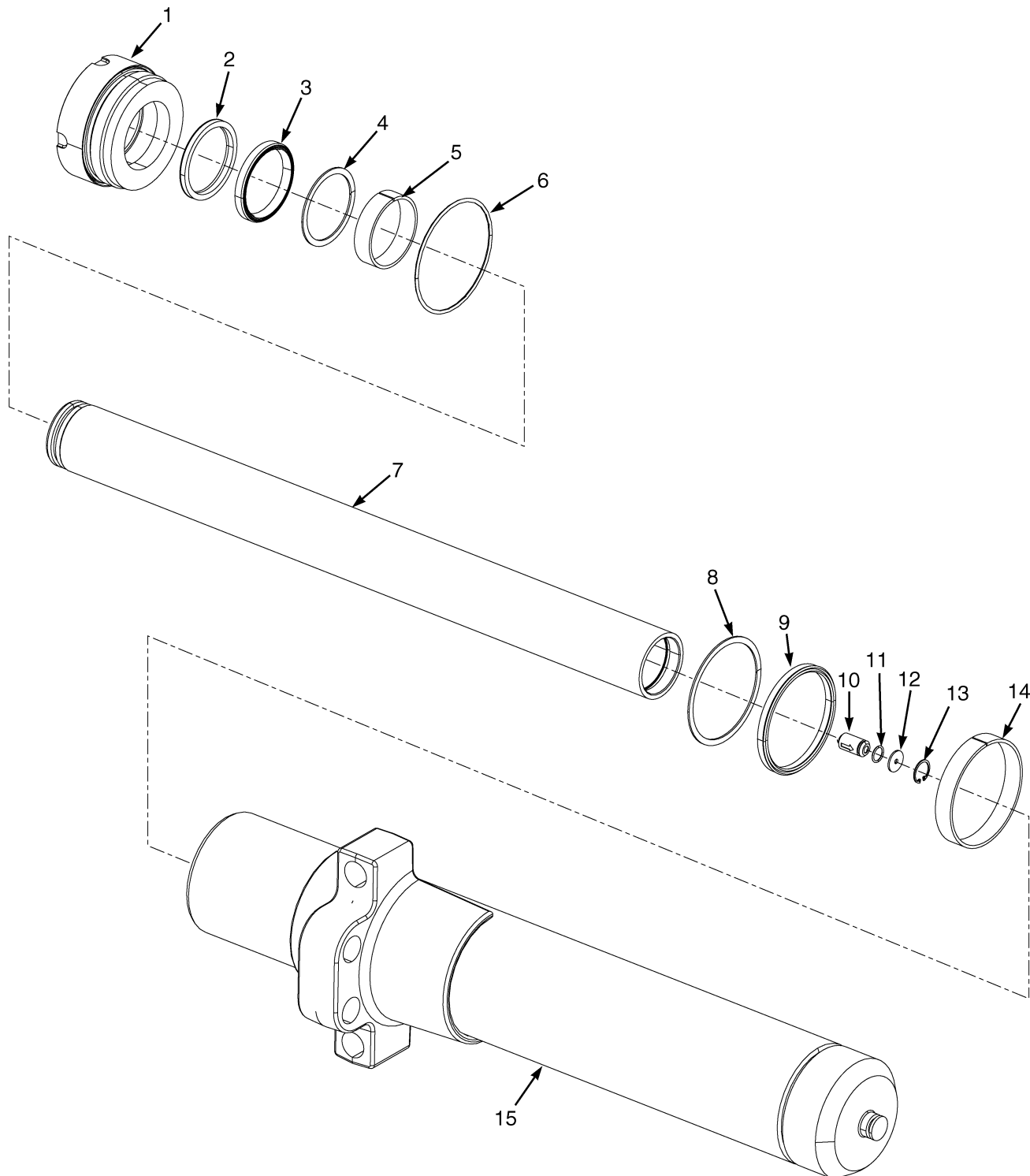
**FREE-LIFT
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
22	Chain	368140	1313789	1313791

ITEM	PART NO.	DESCRIPTION	QTY
1	366529	Chain Guard	1
2	1626478	Washer	4
3	1581585	Capscrew	4
4	1597457	Capscrew	2
5	1581854	Washer	2
6	302105	Setscrew	1
7	366526	Pin	1
8	366528	Crosshead	1
9		Lift Cylinder (☞ Figure 11-7).....	1
10	372389	Spacer	2
11	1626490	Washer	4
12	1626459	Capscrew	2
13	320334	Washer	2
14	388186	Spring	2
15	1626522	Washer	2
16	1626491	Nut	4
17	1626521	Nut	4
18	1331992	Chain Anchor	2
19	343946	Kit-Washer	2
20	1307395	Pin	2
21	15222	Cotter Pin	4
22	a	Chain	2
23	297573	Spacer	2
24	366524	Chain Sheave	1
24	366525	Chain Sheave	1
25	59625	Snap Ring	2
26	334932	Ball Bearing	2

FOOTNOTES:**a** Refer to Table

FREE-LIFT CYLINDER (FIGURE 11-7) THREE STAGE FULL FREE-LIFT



BP170283

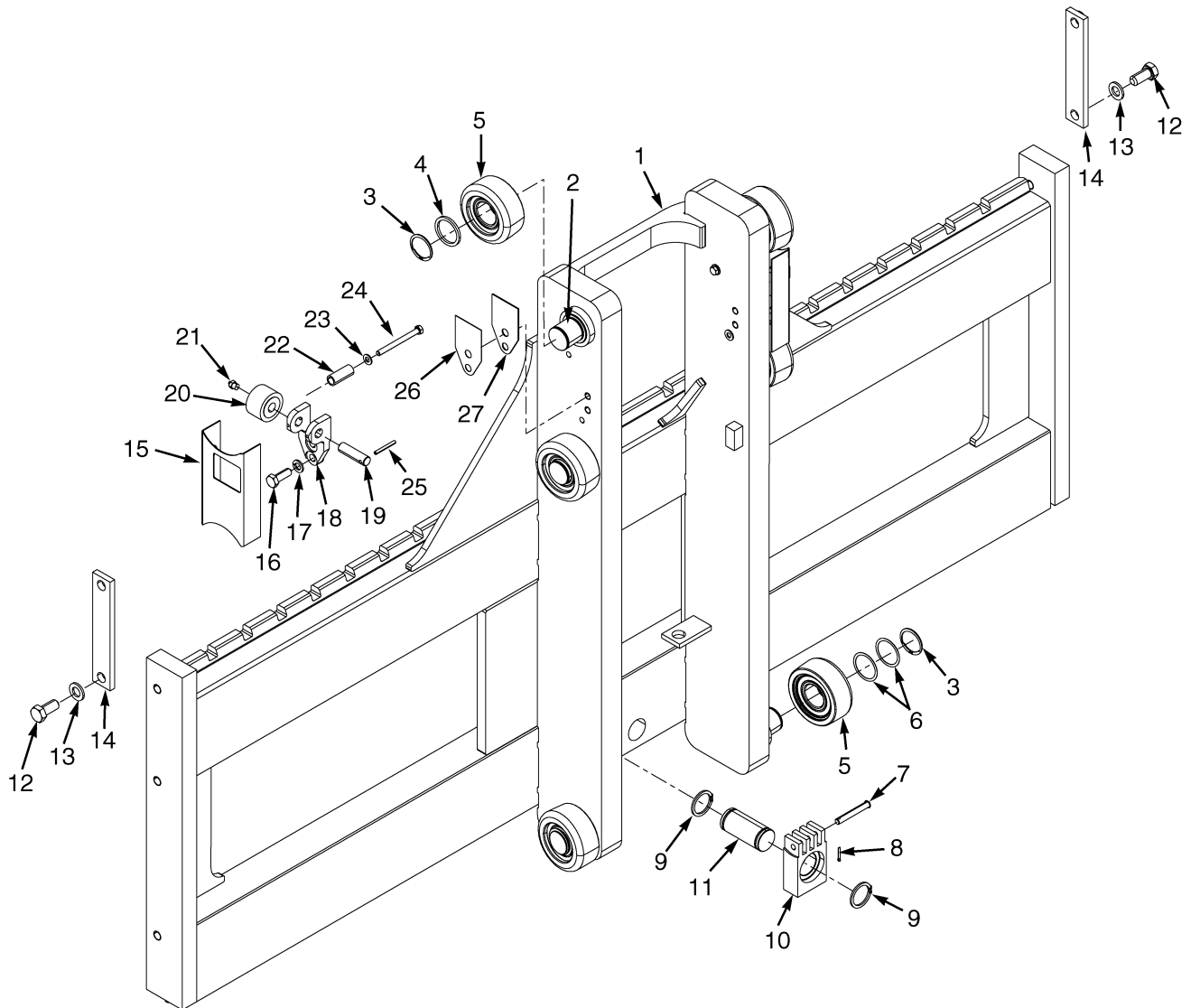
**FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
	Cylinder Group Number	8609304	8609307	8609309
	Cylinder Assy	2085912	2085915	2087298
7	Cylinder Rod	2087324	2087107	2087339
15	Tube Wldmt- Cylinder	2096472	2096473	2096474

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	1623459	Gland	1
2	1383070	Rod Wiper	1
3	2033395	Seal	1
4	638251	Back-Up Ring	1
5	215345	Wear Ring	1
6	15889	O-Ring	1
7	a	Cylinder Rod	1
8	638223	Back-Up Ring	1
9	637166	Rod Seal	1
10	257913	Check Valve	1
11	190580	O-Ring	1
12	297531	Washer	1
13	187388	Snap Ring	1
14	636954	Wear Ring	1
15	a	Tube Wldmt-Cylinder	1
	2096470	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

CARRIAGE (FIGURE 11-8) THREE STAGE FULL FREE-LIFT — HOOK TYPE



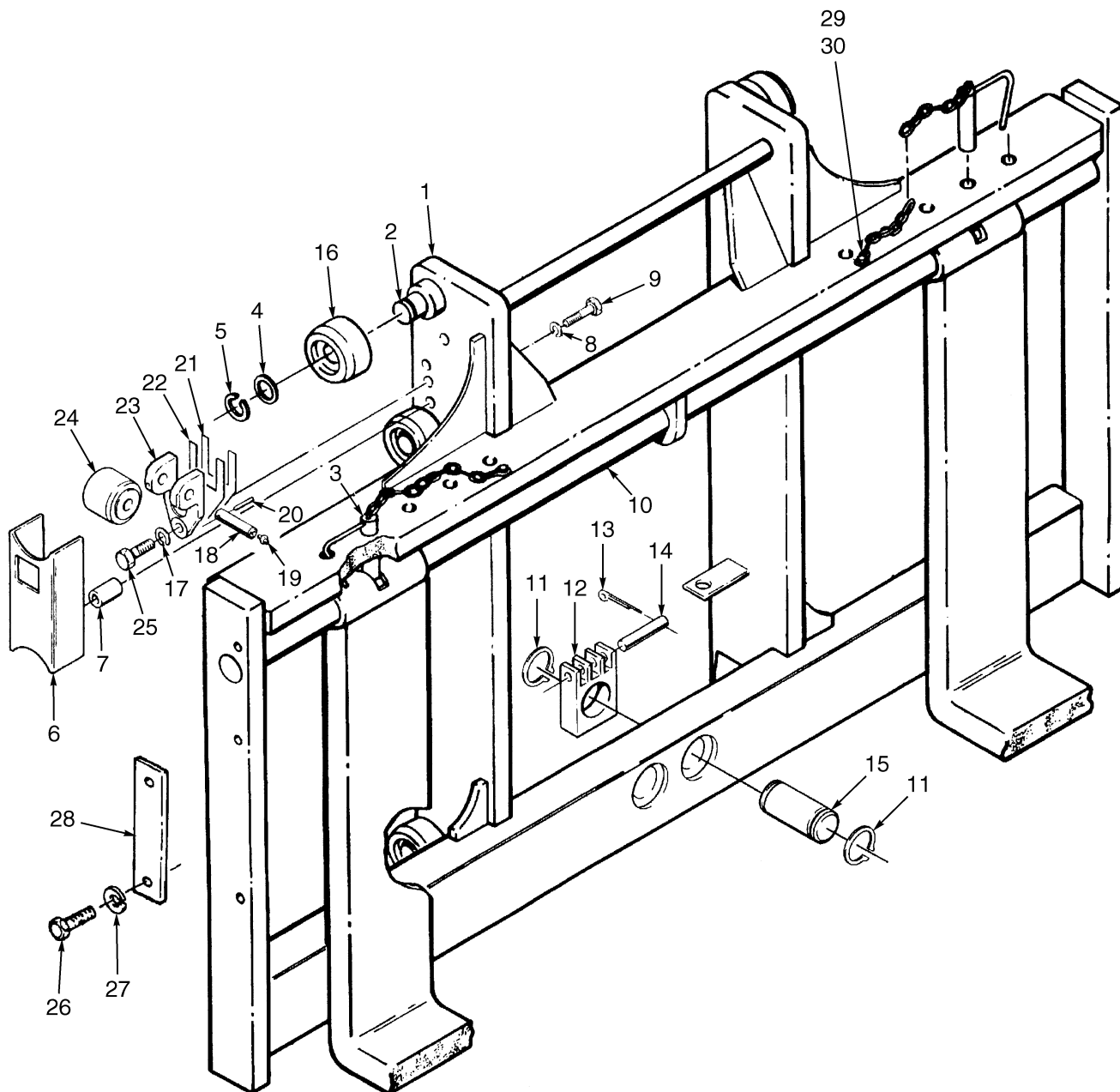
BP170289

CARRIAGE THREE STAGE FULL FREE-LIFT – HOOK TYPE

ITEM	PART NO.	DESCRIPTION	QTY
	2094242	Carriage	1
1	1649309	Carriage Wldmt	1
2	341144	Stubshaft	6
3	187489	Snap Ring	6
4	366116	Spacer	2
5	a 1333648	Load Roller	AR
6	126765	Shim	AR
7	1307395	Pin	2
8	15222	Cotter Pin	2
9	122400	Snap Ring	4
10	358305	Chain Anchor	2
11	1330780	Pin	2
12	1581833	Capscrew	4
13	1581854	Washer	4
14	66468	Plate	2
15	319322	Bracket Wldmt (RH)	1
15	319323	Bracket Wldmt (LH)	1
16	b 292528	Capscrew	4
17	b 292683	Lockwasher	4
18	b 244008	Bracket	2
19	b 244009	Pin	2
20	b 244005	Side Roller	2
21	b 16001	Grease Fitting	2
22	317292	Spacer	4
23	1650842	Washer	4
24	1650841	Fitting	4
25	b 66333	Roll Pin	2
26	b 192424	Shim (0.030 in.)	AR
27	b 192425	Shim (0.062 in.)	AR

FOOTNOTES:**a** Letter on Inside Face**b** With Attachments

CARRIAGE (FIGURE 11-9) THREE STAGE FULL FREE-LIFT — PIN TYPE



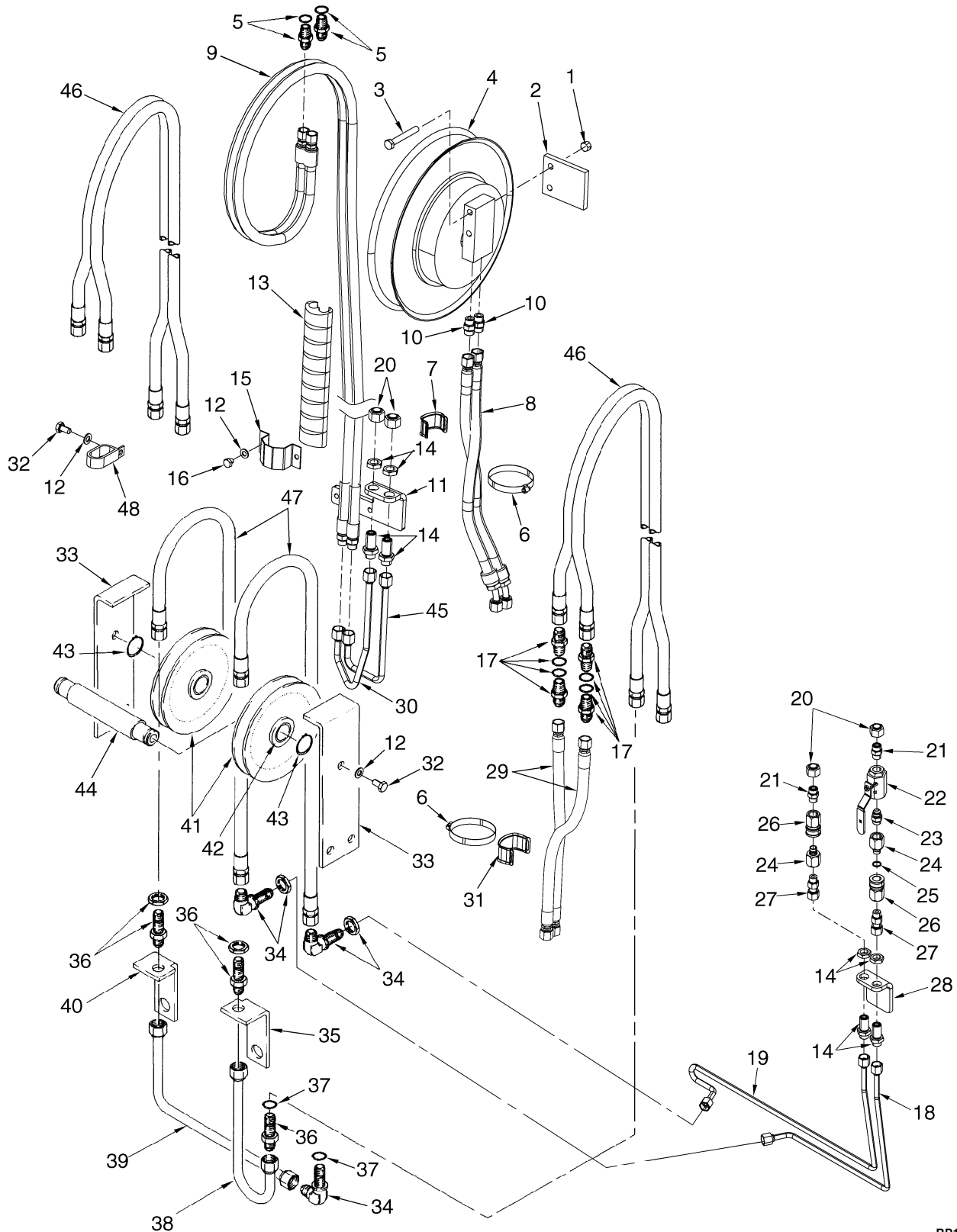
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CARRIAGE THREE STAGE FULL FREE-LIFT – PIN TYPE

ITEM	PART NO.	DESCRIPTION	QTY
	1318161	Carriage (78 in.)	1
1	1331270	Carriage Wldmt	1
2	341144	Stubshaft	6
3	1331269	Pin	2
4	126765	Shim (Bottom Four Rollers)	AR
4	366116	Spacer (Top Two Rollers)	2
5	187489	Snap Ring	6
6	319322	Bracket Wldmt (RH)	1
6	319323	Bracket Wldmt (LH)	1
7	317292	Spacer	4
8	15155	Lockwasher	4
9	18522	Capscrew	4
10	1330064	Pin	2
11	122400	Snap Ring	4
12	358305	Chain Anchor	2
13	15222	Cotter Pin	2
14	1307395	Pin	2
15	1330780	Pin	2
16	a 1333648	Load Roller (0.060 in.)	AR
17	b 292683	Lockwasher	4
18	b 244009	Pin	2
19	b 16001	Grease Fitting	2
20	b 66333	Roll Pin	2
21	b 192424	Shim (0.030 in.)	AR
22	b 192425	Shim (0.062 in.)	AR
23	b 244008	Bracket	2
24	b 244005	Side Roller	2
25	b 292528	Capscrew	4
26	226458	Capscrew	4
27	292685	Lockwasher	4
28	66468	Plate	2
29	292513	Capscrew	2
30	296420	Washer	2

FOOTNOTES:**a** Letter on Inside Face**b** Optional

HEADER HOSES AND AUXILIARY TUBE (FIGURE 11-10) THREE STAGE FULL FREE-LIFT



BP170292

**HEADER HOSES AND AUXILIARY TUBE
THREE STAGE FULL FREE-LIFT****A614**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
	Mast Group Number	A614 4640	A614 5540	A614 6140
8	Hose Assy	2088564	2088567	2078660
9	Hose Assy	2077914	2077916	2077916
29	Hose Assy	2088603	2088606	2088608
46	Hose Assy	2088624	2088627	2088629
47	Hose Assy	2088584	2088587	2088589

KEY:**A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1581849	Nut	..	2
2	386648	Mounting Plate	..	1
3	1597661	Capscrew	..	2
4	378044	Hose Reel (Left Hand)	1	..
4	358289	Hose Reel (Right Hand)	..	1
4	672563	Kit-Seal	1	1
5	16541	Fitting	..	2
5	16484	O-Ring	..	1
6	1360508	Clamp	AR	AR
7	1502809	Hose Clamp	..	2
8	b	Hose Assy	..	2
9	b	Hose Assy	..	2
10	1473887	Fitting	..	2
10	16484	O-Ring	..	1
10	265731	O-Ring	..	1
11	1649764	Bracket (Optional)	..	1
12	1581557	Washer	2	5
13	358286	Strain Relief	..	1
14	816591	Fitting (Includes Nut)	..	2
14	265731	O-Ring	..	1
15	358287	Bracket	..	1
16	1597852	Capscrew	..	2
16	1703560	Capscrew (Alternate Part)	..	2
17	1486746	Fitting	4	4
17	16485	O-Ring	1	1
17	265731	O-Ring	1	1
18	2095002	Tube Assy (☞ Figure 11-11, ☞ Figure 11-12, ☞ Figure 11-13).....	1	1
19	2095003	Tube Assy (☞ Figure 11-11, ☞ Figure 11-12, ☞ Figure 11-13).....	1	1
20	1529016	Fitting	2	4
21	c 1473887	Fitting	..	2

HEADER HOSES AND AUXILIARY TUBE THREE STAGE FULL FREE-LIFT

KEY:**A:** Three Function**B:** Four Function

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
21	16484	O-Ring	1	1
21	265731	O-Ring	1	1
22	cd 2087565	Drain Valve	1	1
23	cd 16541	Fitting	..	1
23	d 16484	O-Ring	1	1
24	c 1377954	Fitting	2	2
25	c 16484	O-Ring	1	1
26	c 1377953	Quick Disconnect Fitting	2	2
27	cd 1622610	Fitting	2	2
27	d 265731	O-Ring	1	1
27	d 16484	O-Ring	1	1
28	1646850	Bracket (RH and LH)	1	1
29	b	Hose Assy	2	2
30	2093830	Tube Assy (☞ Figure 11-11, ☞ Figure 11-12, ☞ Figure 11-13).....	..	1
31	1465489	Hose Clamp	AR	AR
32	1581585	Capscrew	3	3
33	380585	Bracket	2	2
34	1528580	Fitting (Includes Nut)	3	3
34	265731	O-Ring	1	1
35	380591	Bracket	1	1
36	816591	Fitting (Includes Nut)	3	3
36	252729	O-Ring	1	1
37	1625092	Shim	2	2
38	2096962	Tube Assy	1	1
39	2096959	Tube Assy	1	1
40	380590	Bracket	1	1
41	297647	Sheave	2	2
42	136045	Bushing	1	1
43	248212	Snap Ring	2	2
44	1632103	Shaft	1	1
45	2093829	Tube Assy (☞ Figure 11-11, ☞ Figure 11-12, ☞ Figure 11-13).....	..	1
46	b	Hose Assy	2	2
47	b	Hose Assy	2	2
48	255578	Clamp	..	1
49	1581585	Capscrew	2	3
	a 181298	Dust Cap	1	1
	a 181266	Dust Cap	1	1

FOOTNOTES:**a** Not Illustrated**b** Refer to Table**c** With Quick Disconnect Fittings**d** → PENDING PER ECN 10594308

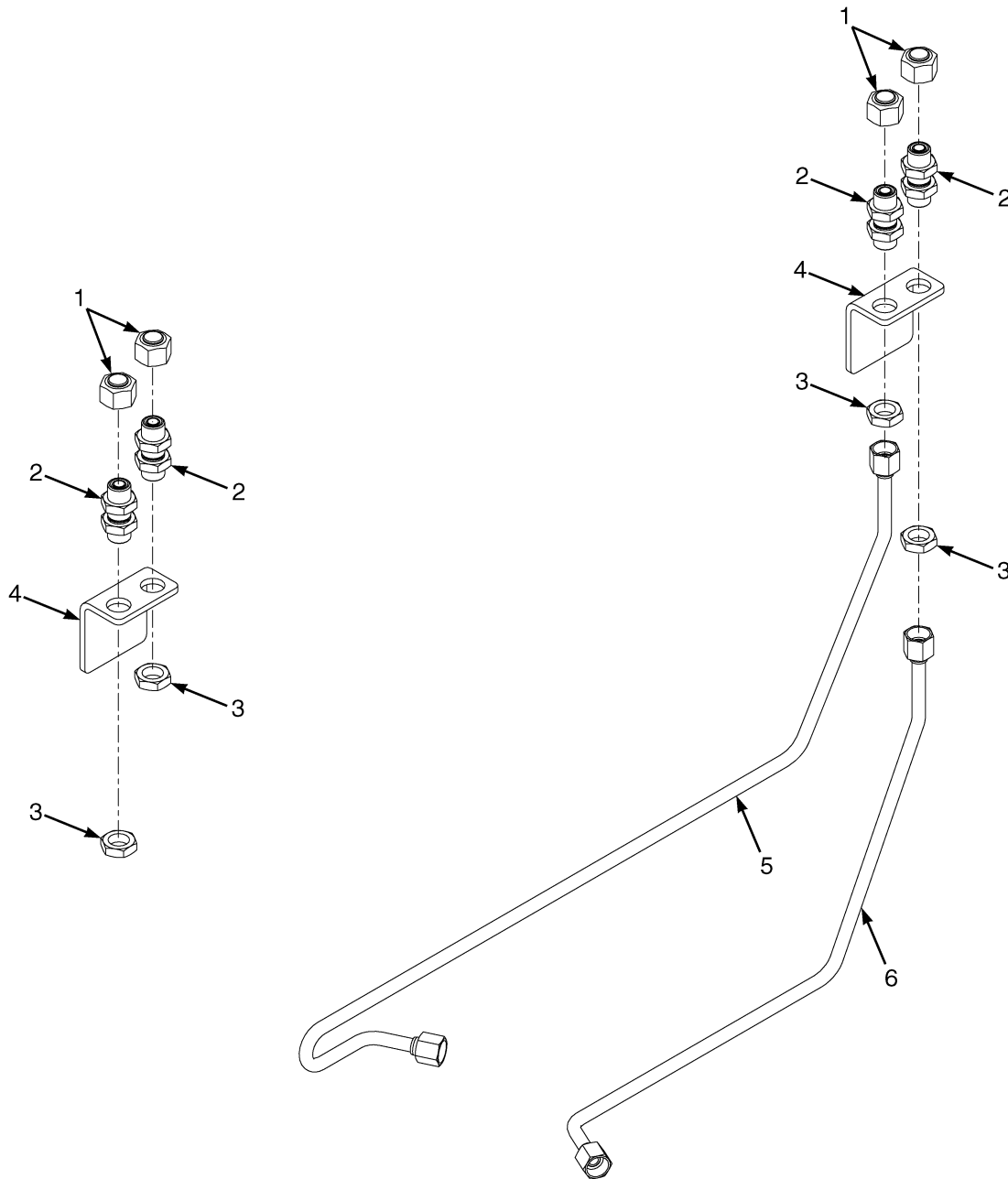
NOTES

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AUXILIARY TUBE EXTENSIONS (FIGURE 11-11)

THREE STAGE FULL FREE-LIFT — WITHOUT QUICK DISCONNECT FITTINGS

(PENDING PER ECN 10594308 →)



BP000529

AUXILIARY TUBE EXTENSIONS
THREE STAGE FULL FREE-LIFT – WITHOUT QUICK DISCONNECT FITTINGS
(PENDING PER ECN 10594308 →)

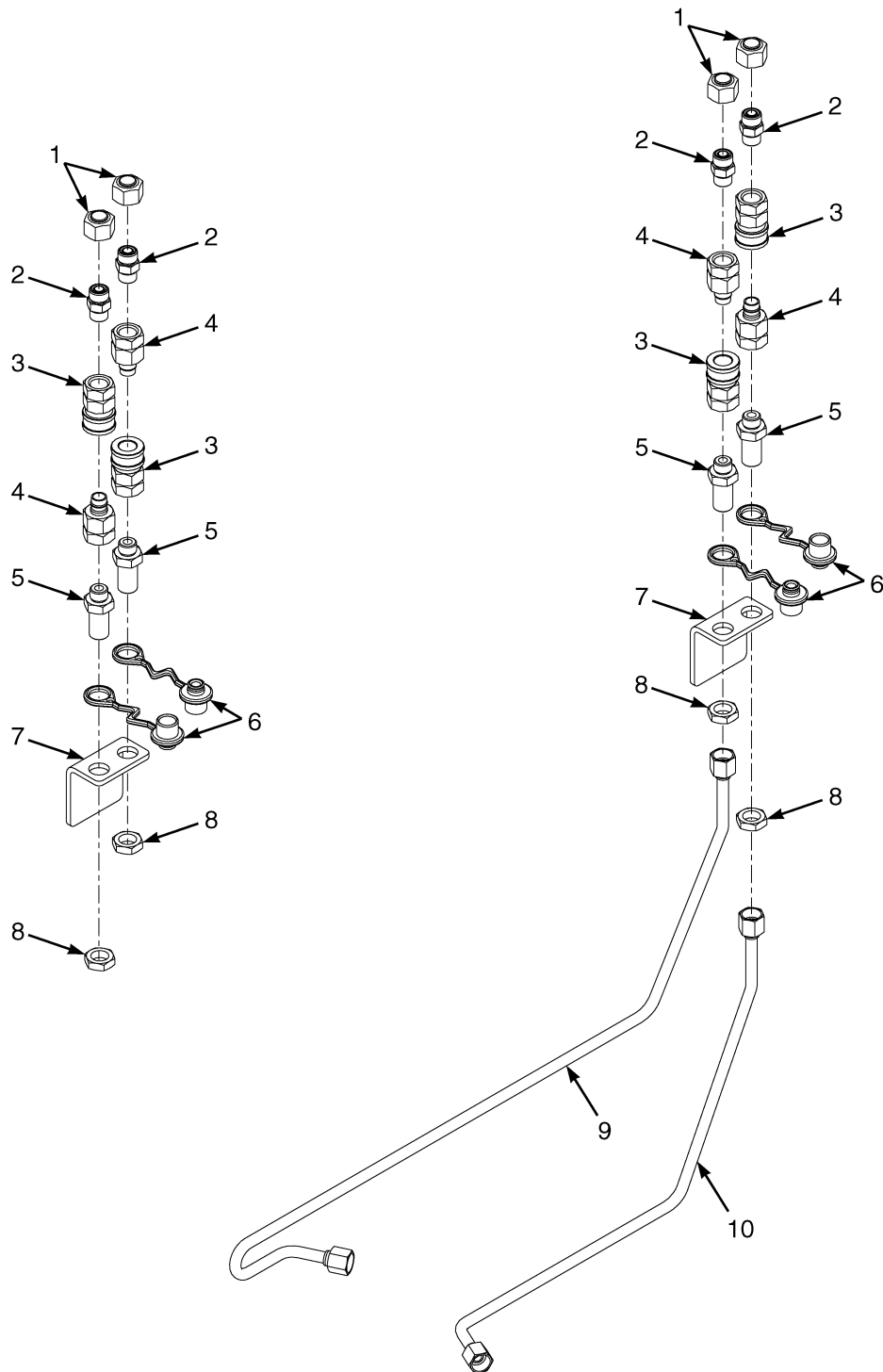
KEY:**A: A614 Three Function****B: A614 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1529016	Fitting	2	4
2	816591	Fitting (Includes Nut)	2	4
3	816593	Locknut	2	4
4	1646850	Bracket (RH and LH)	1	2
5	2095003	Tube Assy	1	1
6	2095003	Tube Assy	1	1
	a 2093830	Tube Assy (LH)	..	1
	a 2093829	Tube Assy (RH)	..	1

FOOTNOTES:**a** Not Illustrated

AUXILIARY TUBE EXTENSIONS (FIGURE 11-12)

THREE STAGE FULL FREE-LIFT — MANUAL HYDRAULICS WITH QUICK DISCONNECT FITTINGS



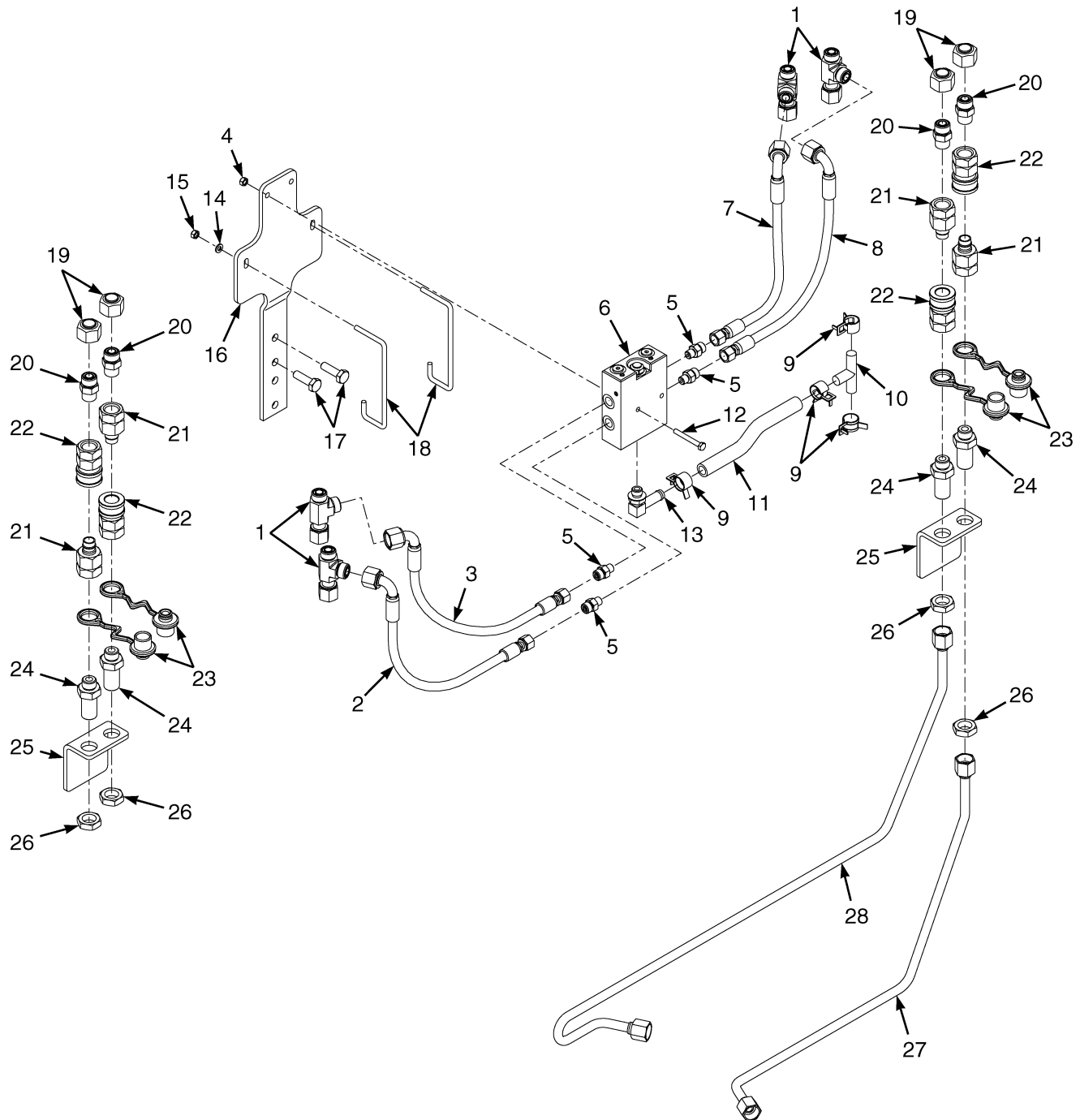
BP000530

AUXILIARY TUBE EXTENSIONS**THREE STAGE FULL FREE-LIFT – MANUAL HYDRAULICS WITH QUICK DISCONNECT FITTINGS****KEY:****A: A614 Three Function****B: A614 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1529016	Fitting	2	4
2	1473887	Fitting	2	4
3	1377953	Quick Disconnect Fitting	2	4
4	1377954	Fitting (Quick Disconnect)	2	4
5	1708365	Bulkhead (Fitting)	2	4
6	1708368	Dust Cover	2	4
7	1646850	Bracket (RH and LH)	1	2
8	816593	Locknut	2	4
9	2095002	Tube Assy	1	1
10	2095003	Tube Assy	1	1
	2093830	Tube Assy (LH)	..	1
	2093829	Tube Assy (RH)	..	1

AUXILIARY TUBE EXTENSIONS (FIGURE 11-13)

THREE STAGE FULL FREE-LIFT — E-HYDRAULICS WITH QUICK DISCONNECT FITTINGS



BP000531

AUXILIARY TUBE EXTENSIONS

THREE STAGE FULL FREE-LIFT – E-HYDRAULICS WITH QUICK DISCONNECT FITTINGS

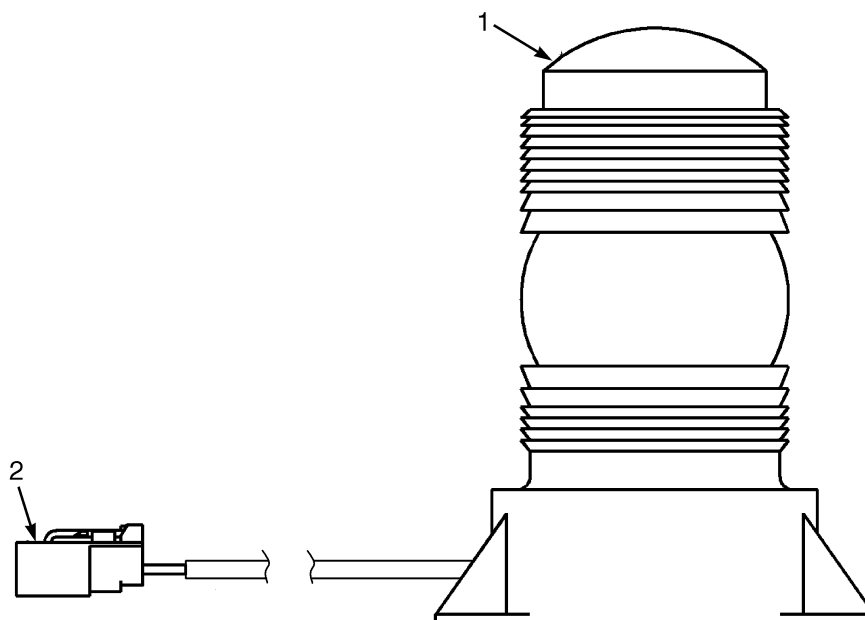
KEY:**A: A614 Three Function****B: A614 Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1487095	Fitting	2	4
2	4604682	Hose Assy	..	1
3	4604683	Hose Assy	..	1
4	302399	Nut	2	2
5	1486737	Fitting	2	4
6	2111754	Valve (Single Aux)	1	..
6	2111754	Valve (Dual Aux)	..	1
7	4604680	Hose Assy	1	1
8	4604683	Hose Assy	1	1
9	1527979	Hose Clamp	4	4
10	2046871	Fitting	1	1
11	1614069	Hose	1	1
12	292505	Capscrew	2	2
13	110178	Fitting	1	1
13	16483	O-Ring	1	1
14	1673754	Washer	2	2
15	302399	Nut	2	2
16	4013102	Bracket	1	1
17	1581588	Capscrew	2	2
18	4013097	Hook	2	2
19	1529016	Fitting	2	4
20	1473887	Fitting	2	4
21	1377954	Fitting (Quick Disconnect)	2	4
22	1377953	Quick Disconnect Fitting	2	4
23	1708368	Dust Cover	2	4
24	1708365	Bulkhead (Fitting)	2	4
25	1646850	Bracket (RH and LH)	1	2
26	816593	Locknut	2	4
27	2095003	Tube Assy	1	1
28	2095002	Tube Assy	1	1
	2093829	Tube Assy (RH)	..	1
	2093830	Tube Assy (LH)	..	1

[illegible]

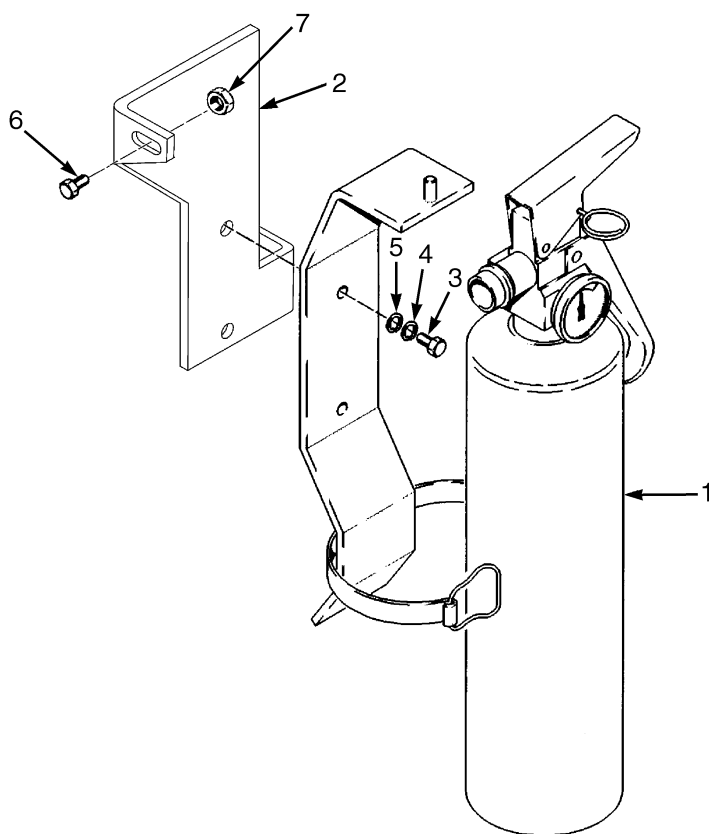
SECTION 12
OPTIONS

DESCRIPTION	PAGE
ACCUMULATOR	12-10
BACK-UP ALARM	12-6
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WITH CAB	12-8
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STROBE LIGHT (FIGURE 12-1)
LED

BP000363

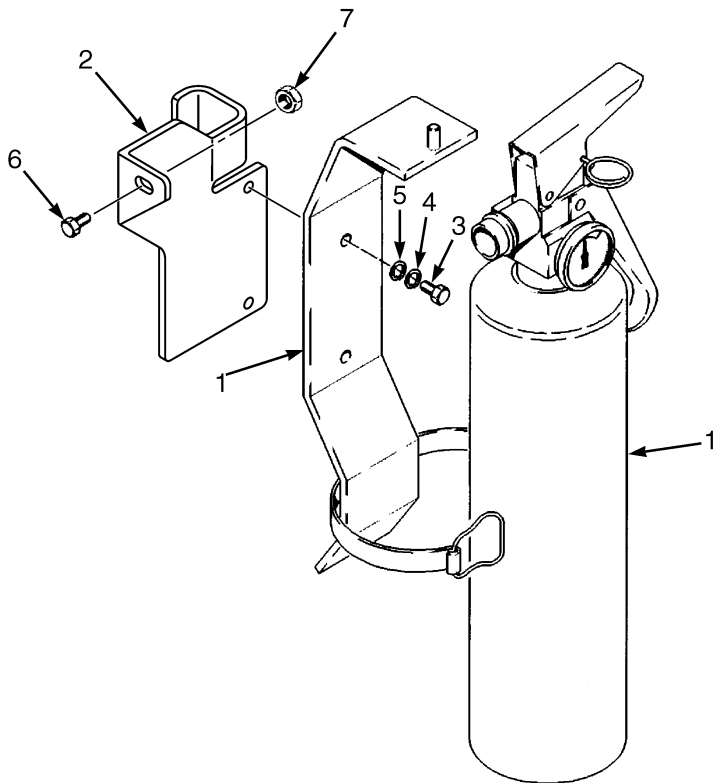
ITEM	PART NO.	DESCRIPTION	QTY
	1654013	Strobe Light Assembly	1
1	1652290	Strobe Light (LED)	1
2	1463138	Terminal	1
2	1561559	Connector	1
2	1561755	Connector	1

**FIRE EXTINGUISHER (FIGURE 12-2)
WITH CAB**

BP000252

ITEM	PART NO.	DESCRIPTION	QTY
1	146540	Fire Extinguisher	1
1	1561749	Bracket	1
2	1582141	Bracket	1
3	296507	Screw	2
4	292679	Washer	2
5	320155	Washer	2
6	1583611	Capscrew	1
7	1502543	Nut (Flange)	1

FIRE EXTINGUISHER (FIGURE 12-3) WITH OVERHEAD GUARD



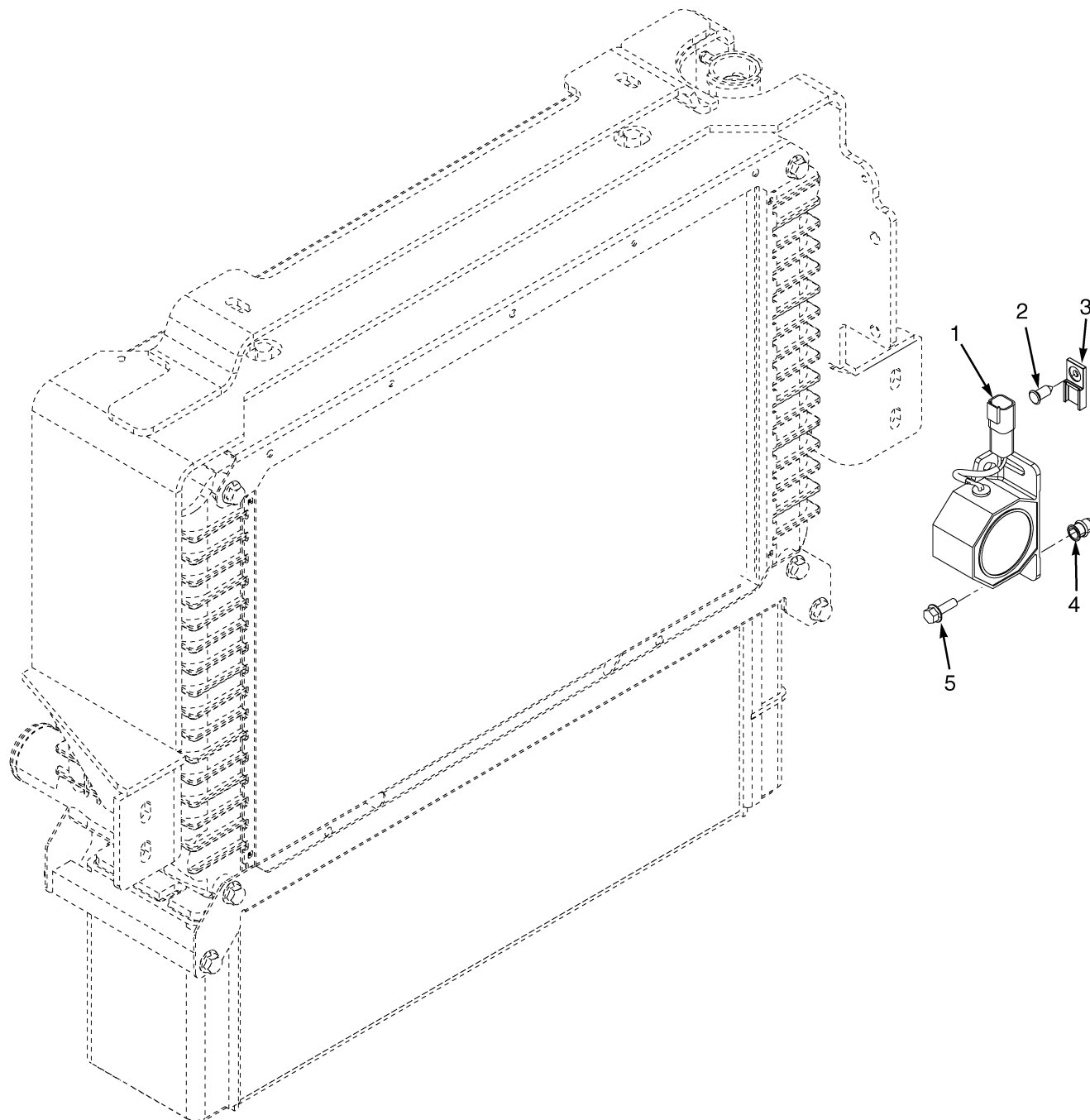
BP000354

ITEM	PART NO.	DESCRIPTION	QTY
1	146540	Fire Extinguisher	1
1	1561749	Bracket	1
2	1641394	Bracket	1
3	296507	Screw	2
4	292679	Washer	2
5	320155	Washer	2
6	1583611	Capscrew	1
7	1502543	Nut (Flange)	1

NOTES

[illegible]

BACK-UP ALARM (FIGURE 12-4)

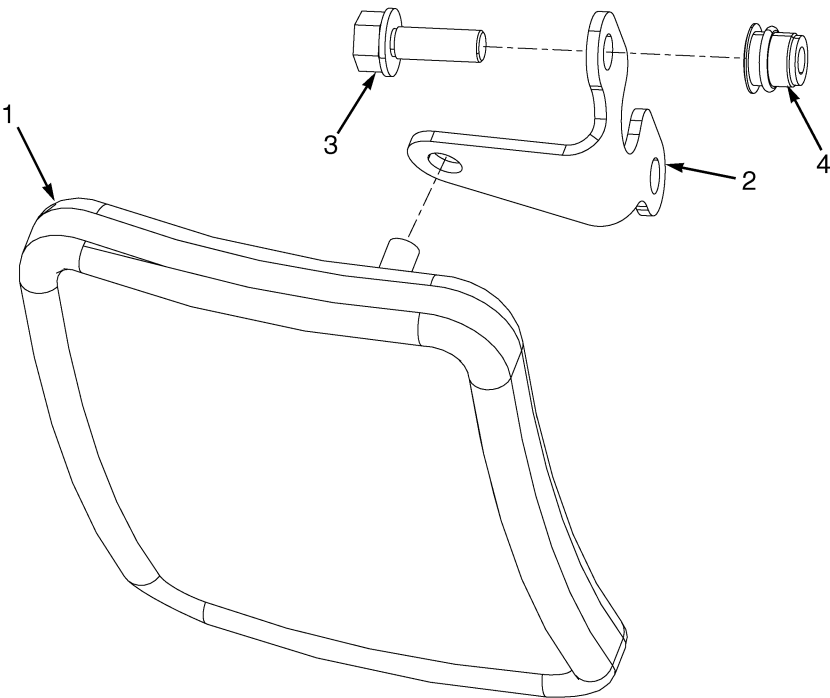


BP000369

BACK-UP ALARM

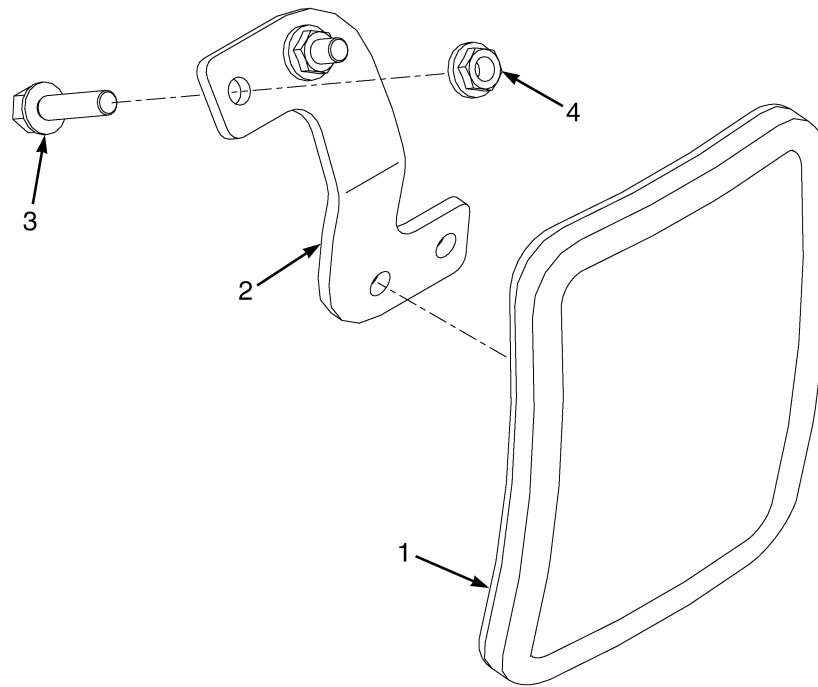
ITEM	PART NO.	DESCRIPTION	QTY
1	2064929	Back-Up Alarm (82-102 dbA)	1
2	1582464	Fastener	1
3	1500912	Clip	1
4	1531001	Insert	2
5	1527877	Capscrew	2

**DUAL MIRRORS (FIGURE 12-5)
WITH CAB**



HP000896

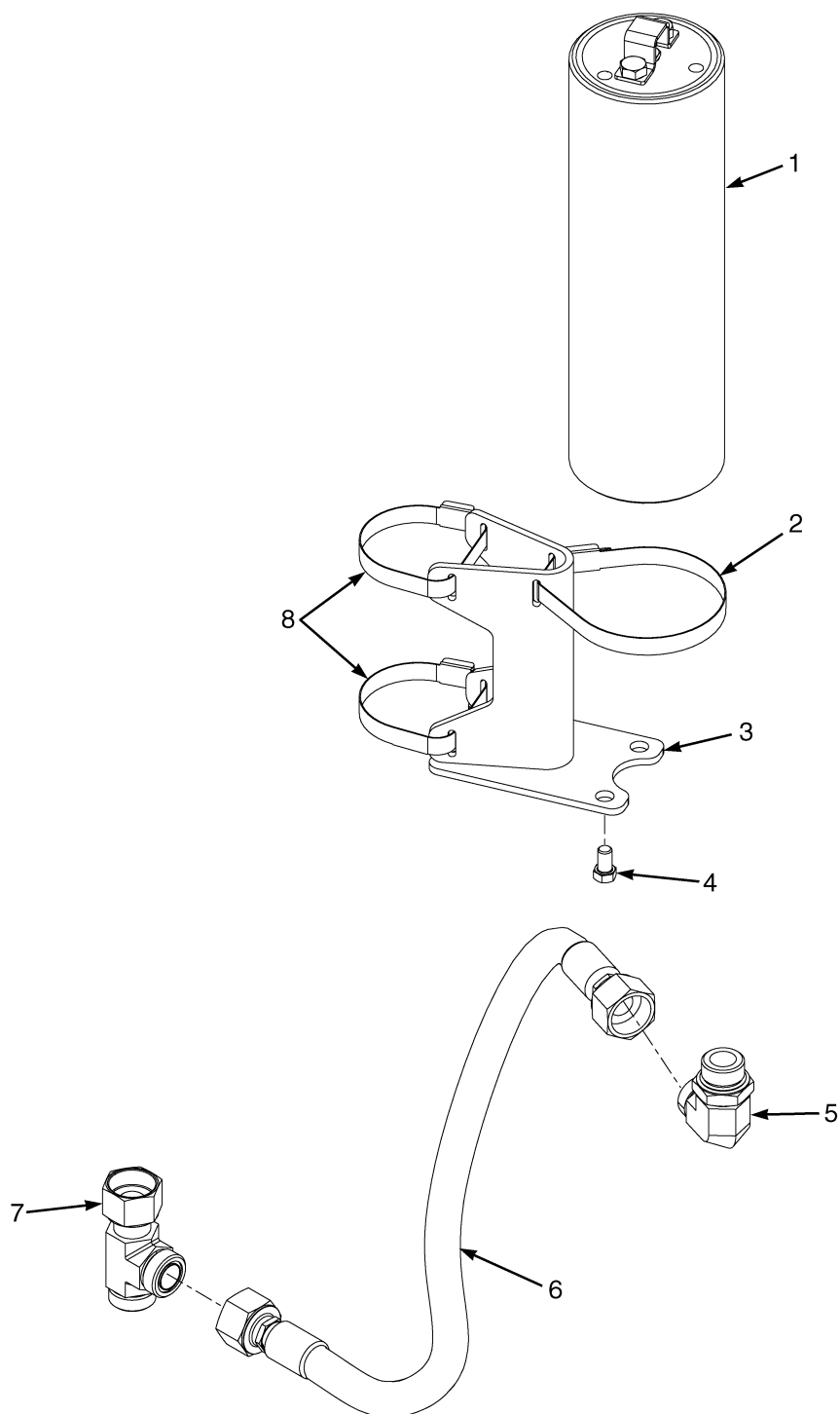
ITEM	PART NO.	DESCRIPTION	QTY
1	4009488	Mirror	2
2	1579412	Bracket	2
3	1583611	Capscrew	4
4	1531557	Insert	4

**DUAL MIRRORS (FIGURE 12-6)
WITH OVERHEAD GUARD**

BP000540

ITEM	PART NO.	DESCRIPTION	QTY
1	4009488	Mirror	2
2	1656215	Bracket (RH)	1
2	1656216	Bracket (LH)	1
3	1583611	Capscrew	4
4	1586430	Nut	4

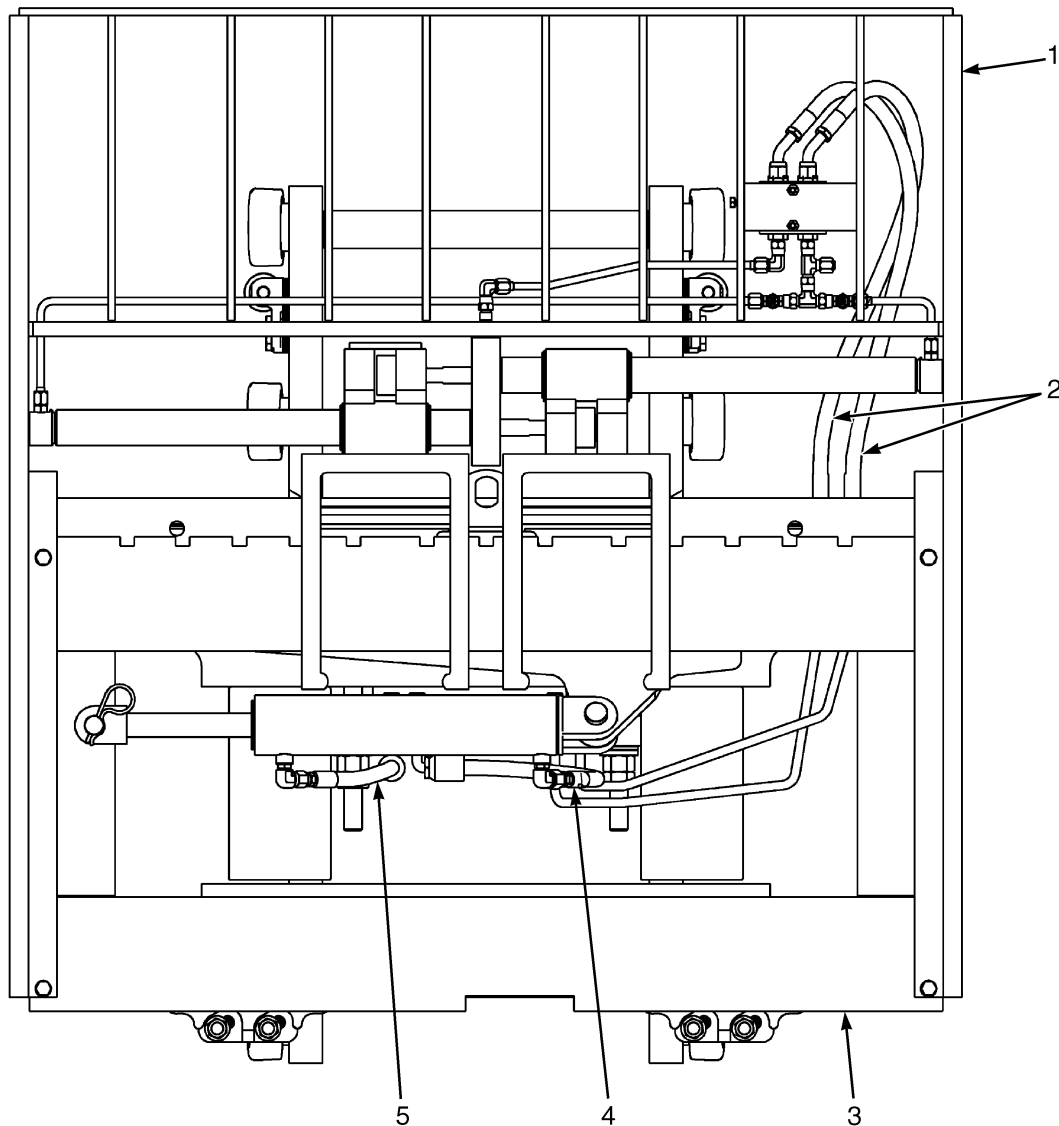
ACCUMULATOR (FIGURE 12-7)



BP000368

ACCUMULATOR

ITEM	PART NO.	DESCRIPTION	QTY
1	1651275	Accumulator	1
2	1611564	Clamp	1
3	1651147	Bracket	1
3	1708890	Bracket Wldmt (Alternate Part)	1
4	16642	Capscrew	2
5	1487075	Fitting	1
5	16487	O-Ring	1
5	244167	O-Ring	1
6	2096180	Hose	1
7	1487099	Fitting	1
7	244167	O-Ring	2
8	1661416	Clamp	2

**HANG-ON SIDE-SHIFT CARRIAGE (FIGURE 12-8)
WITH FORK POSITIONER AND BACKREST**

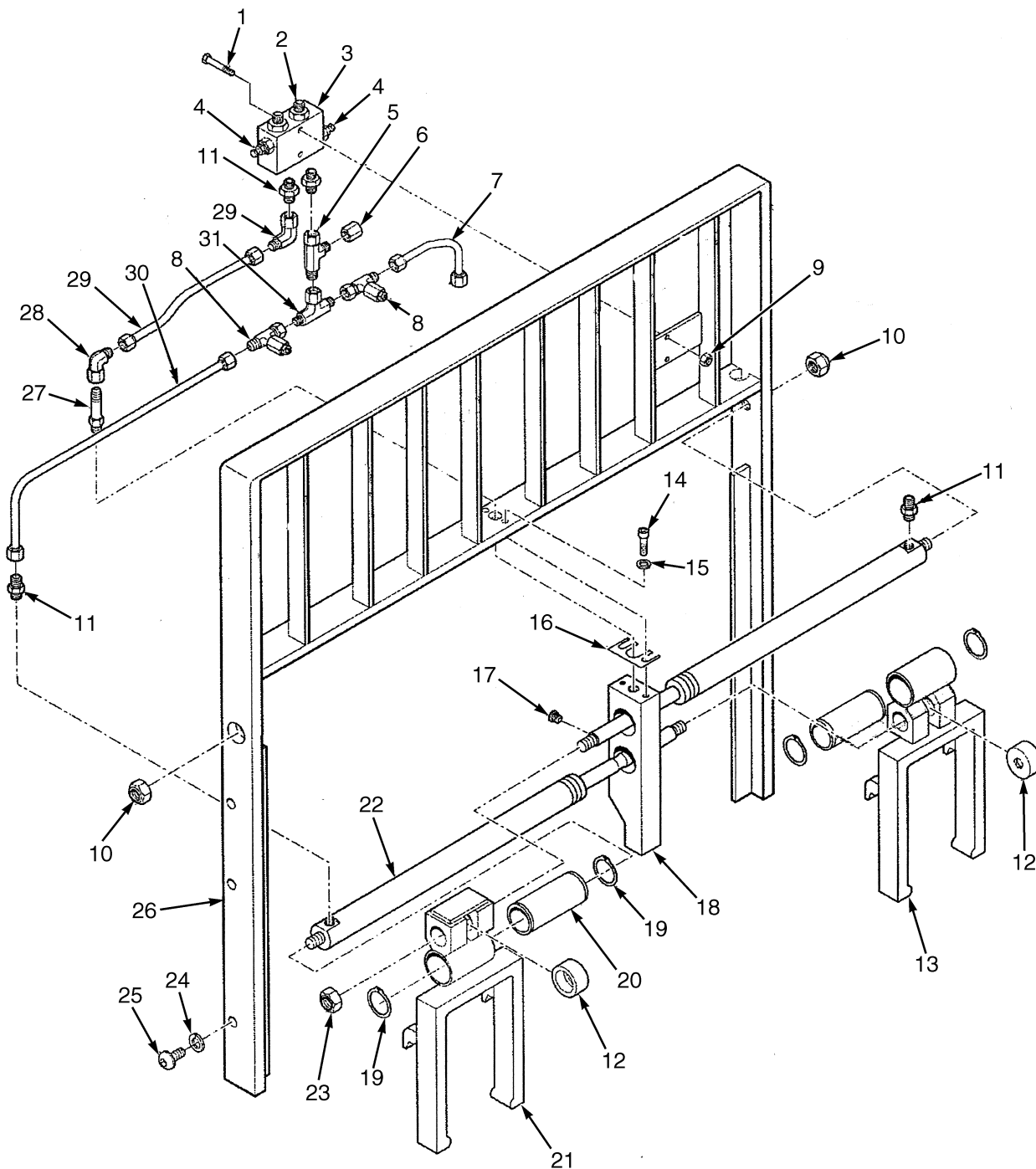
BP000371

**HANG-ON SIDE-SHIFT CARRIAGE
WITH FORK POSITIONER AND BACKREST**

ITEM	PART NO.	DESCRIPTION	QTY
	2096678	Side-Shift Carriage	1
1	1665416	Fork Positioner Assy (☞ Figure 12-9).....	1
2	2096512	Hose Assy	2
3	1665216	Side-Shift Carriage (☞ Figure 12-10).....	1
4	b 2096509	Hose Assy	1
4	a 2096511	Hose Assy	1
5	b 2096508	Hose Assy	1
5	a 2096510	Hose Assy	1

FOOTNOTES:**a** Three Stage Full Free-Lift**b** Two Stage Limited Free-Lift

FORK POSITIONER ASSEMBLY (FIGURE 12-9)

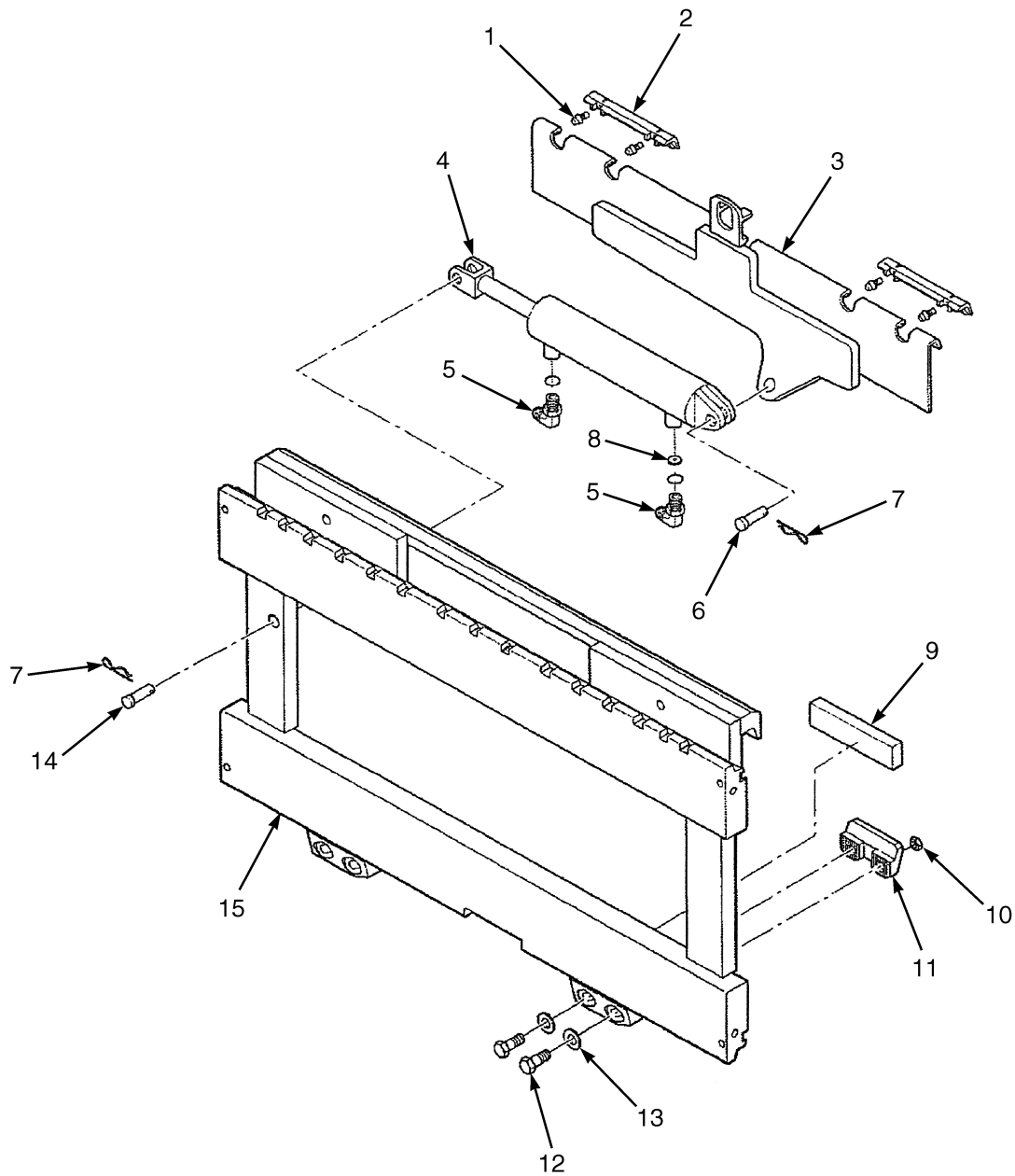


BP000373

FORK POSITIONER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1665416	Fork Positioner Assy	1
1	1665002	Capscrew	2
2	1664987	Fitting	2
3	1664995	Valve Block	1
4	1665009	Valve	2
5	1664998	Fitting	1
6	1665005	Nut	1
7	1665004	Tube	1
8	1665001	Fitting	2
8	1665092	T-Fitting	1
8	1665093	O-Ring	1
8	1665094	Setscrew	1
8	1665095	Cap	1
8	1665096	Nut	1
9	1665003	Nut	2
10	1664990	Nut	2
11	1664996	Fitting	4
12	1664983	Lug	2
13	1665420	Fork Frame (LH)	1
14	1664989	Capscrew	2
15	1664988	Lockwasher	2
16	1664982	Shim	1
17	1664991	Plug	1
18	1664981	Plate	1
19	1665008	Snap Ring	4
20	1664984	Bushing	2
21	1665419	Fork Frame (RH)	1
22	1665418	Cylinder Assy (☞ Figure 12-11).....	2
23	1665000	Nut	2
24	1665421	Lockwasher	6
25	1665422	Capscrew	6
26	1665417	Frame	1
27	1665010	Fitting	1
28	1664997	Fitting	2
29	1665424	Tube	1
30	1665423	Tube	1
31	1664999	Fitting	1

SIDE-SHIFT ASSEMBLY (FIGURE 12-10)

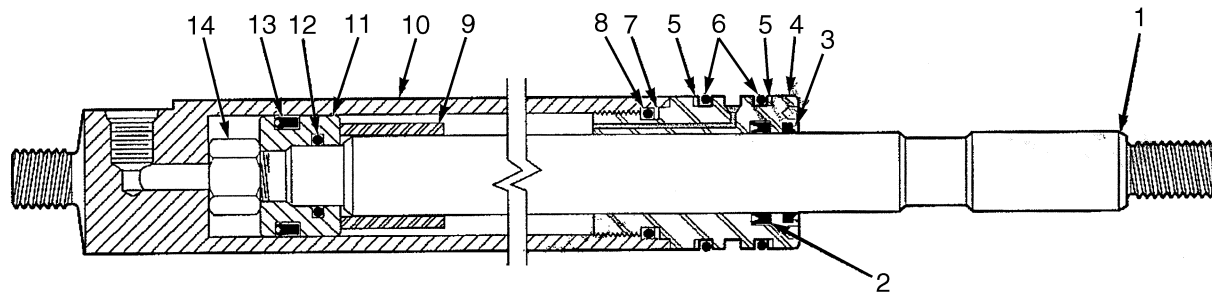


BP000372

SIDE-SHIFT ASSEMBLY

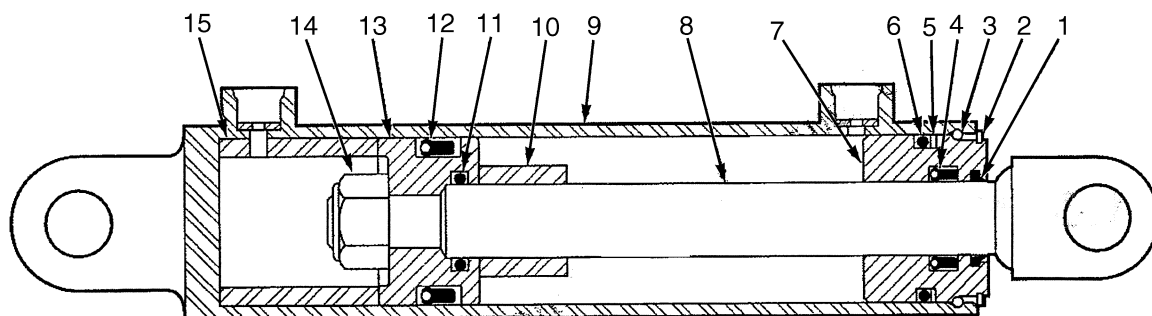
ITEM	PART NO.	DESCRIPTION	QTY
	1665216	Side-Shift Carriage	1
1	1664896	Grease Fitting	4
2	1664897	Bearing	2
3	1664898	Bracket	1
4	1664901	Cylinder Assy (☞ Figure 12-12).....	1
5	1664899	Fitting	2
5		O-Ring	1
6	1664904	Pin	1
7	1664903	Cotter Pin	2
8	1664912	Thrust Washer (Restrictor)	1
9	1664909	Bearing (Lower)	3
10	1664902	Nut	4
11	1664910	Hook	2
12	1664908	Capscrew	4
13	221775	Washer	4
14	1664911	Pin	1
15		Faceplate	1
	1664913	Kit-Service	1

FORK POSITIONER CYLINDER (FIGURE 12-11)



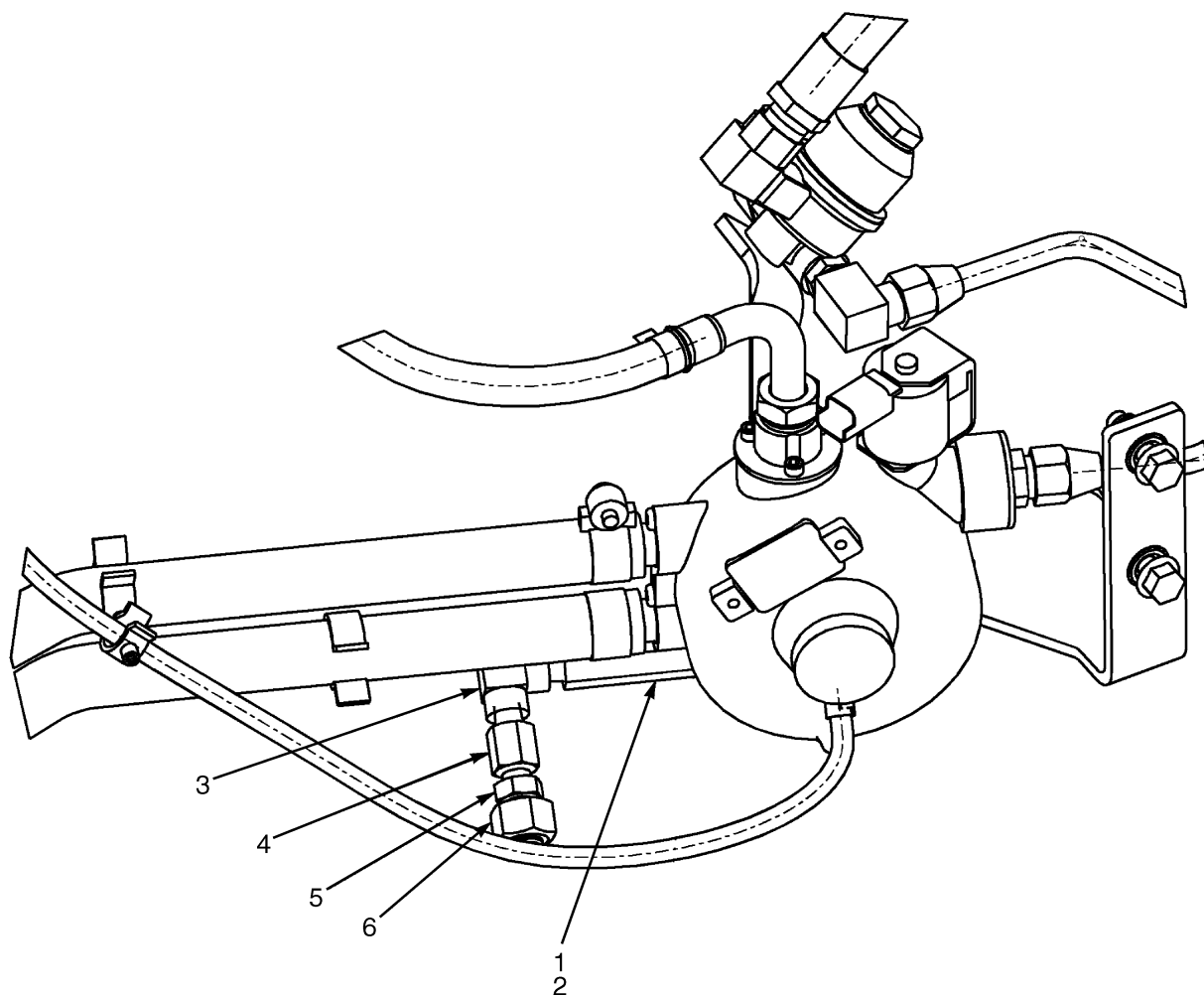
BP000374

ITEM	PART NO.	DESCRIPTION	QTY
	1665418	Cylinder Assy	1
1	1665427	Rod	1
2		Rod Seal	1
3		Wiper	1
4	1665078	Retainer	1
5		Back Up Ring	2
6		O-Ring	2
7		Back Up Ring	1
8		O-Ring	1
9	1665079	Spacer	1
10		Shell	1
11	1665077	Piston	1
12		O-Ring	1
13		Piston Seal	1
14	1665000	Nut	1
	1665089	Kit-Seal	1

SIDE-SHIFT CYLINDER (FIGURE 12-12)

BP000375

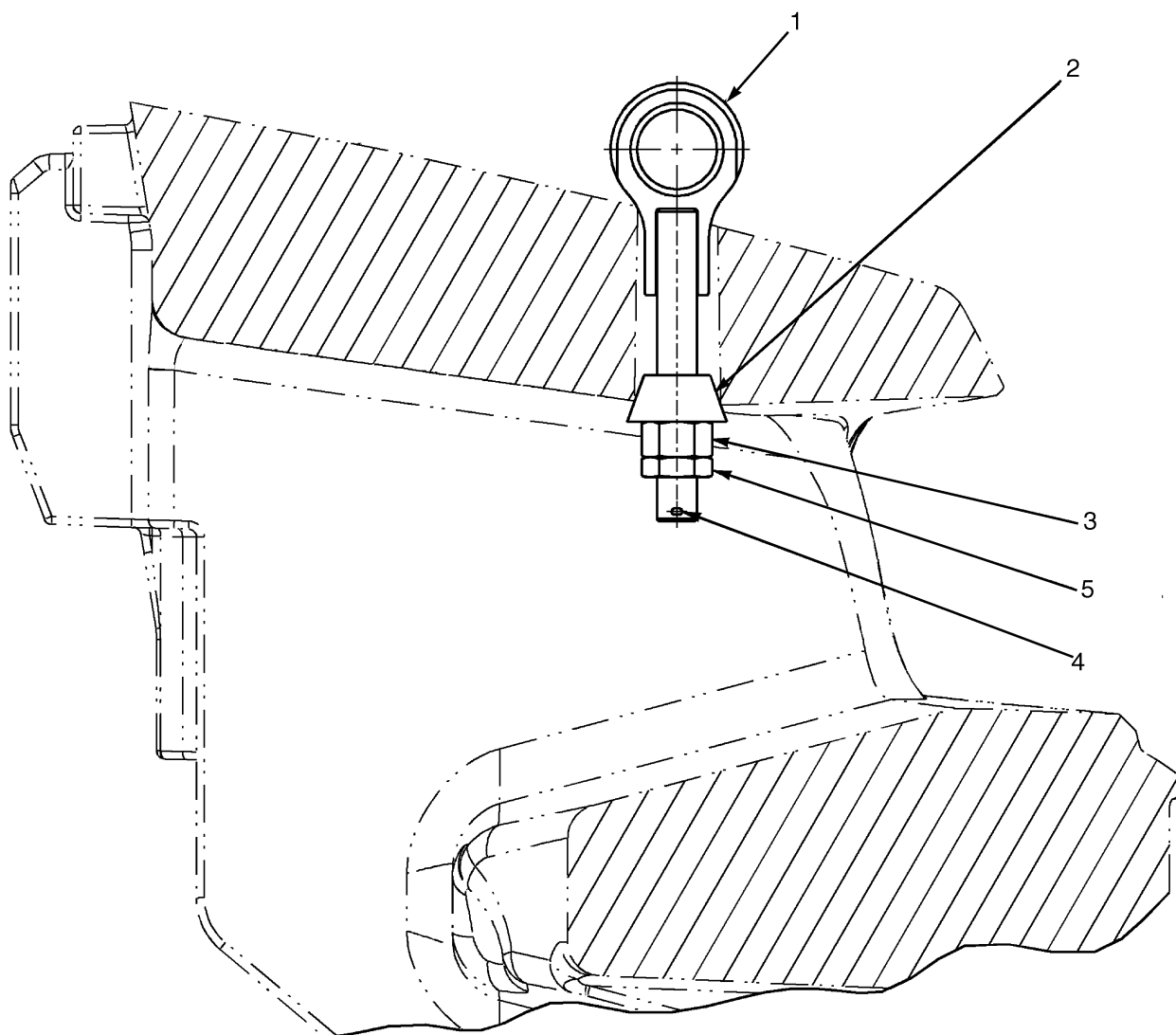
ITEM	PART NO.	DESCRIPTION	QTY
	1664901	Cylinder Assy	1
1		Wiper	1
2	1664964	Snap Ring	1
3	1664963	Retaining Ring	1
4		Seal	1
5		Back Up Ring	1
6		O-Ring	1
7	1664959	Retainer	1
8		Rod	1
9		Shell	1
10		Spacer (Rod)	1
11		O-Ring	1
12		Seal	1
13	1664956	Piston	1
14	1664916	Nut	1
15	1664954	Spacer (Head)	1
	1520671	Kit-Seal	1

GM LPG REGULATOR DRAIN KIT (FIGURE 12-13)

BP000396

GM LPG REGULATOR DRAIN KIT

ITEM	PART NO.	DESCRIPTION	QTY
	1664940	Kit-Service (GM LPG regulator Drain GM2.4L and 4.32)	1
1	1652140	Fitting	1
2	16481	O-Ring	1
3	69392	Fitting	1
4	28584	Fitting	1
5	1488404	Fitting	1
6	1529014	Fitting	1

LIFTING EYE (FIGURE 12-14)

BP000445

LIFTING EYE

ITEM	PART NO.	DESCRIPTION	QTY
1	1651797	Eyebolt	1
2	1474318	Anchor	1
3	292661	Nut	1
4	15246	Cotter Pin	1
5	1593341	Nut	1

[illegible]

SECTION 13
FIELD CONVERSION KITS

DESCRIPTION	PAGE
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ATTACHMENT MOUNTING KITS

DESCRIPTION	PART NUMBER
Kit-Attaching Parts (Single Block Handler, Std Carriage, 2 STG LFL Class IV)	c 1664917
Kit-Attaching Parts (Single Block Handler, 3 Stg FFL, Class IV Std Carriage)	1664918
Kit-Attaching Parts (Dual Block Handler, Std Carriage, 2 Stg LFL Class IV)	g 1664919
Kit-Attaching Parts (Dual Block Handler, 3 Stg FFL, Class IV Std Carriage)	n 1664920
Kit-Attaching Parts (Dual Block Handler, Std Carriage 2 Stg LFL, Class IV)	f 1664921
Kit-Attaching Parts (Dual Block Handler, 3 Std FFL, Class IV Std Carriage)	p 1664922
Kit-Attaching Parts (SS Pulp Bale Clamp, Std Carriage, 2 Stg LFL, Class IV)	a 1664925
Kit-Attaching Parts (SS Pulp Bale Clamp, Std Carriage. 3 Stg FFL, Class IV)	m 1664926
Kit-Attaching Parts (Pivot Arm Roll Clamp, Std Carriage, 2 LFL Class IV)	i 1664937
Kit-Attaching Parts (Pivot Roll Arm Clamp, Std Carriage, 3 Stg FFL Class IV)	q 1664938
Kit-Attaching Parts (Pivot Arm Roll Clamp, Std Carriage, 2 Stg LFL Class IV)	d 1664941
Kit-Attaching Parts (Pivot Roll Arm Clamp, Std Carriage, 3 Stg FFL Class IV)	k 1664942
Kit-Attaching Parts (Pivot Arm Roll Clamp, Std Carriage, 2 Stg LFL Class IV)	e 1664943
Kit-Attaching Parts (Pivot Roll Arm Clamp, Std Carriage, 3 Stg FFL Class IV)	l 1664944
Kit-Attaching Parts (Rotator, Std Carriage. 2 Stg LFL Class IV)	b 1664949
Kit-Attaching Parts (Rotator, Std Carriage, 3 Stg FFL, Class IV)	j 1664950
Kit-Attaching Parts (Rotator, Std Carriage. 2 Stg LFL Class IV)	h 1664951
Kit-Attaching Parts (Rotator, Std Carriage, 3 Stg FFL, Class IV)	o 1664952

FOOTNOTES:

- a** Used On Mast A613, Attachment 100D-PBS
- b** Used On Mast A613, Attachment 100D-RRB, 120D-RRB
- c** Used On Mast A613, Attachment 100E-BDS
- d** Used On Mast A613, Attachment 120F-RCP
- e** Used On Mast A613, Attachment 130F-RCP
- f** Used On Mast A613, Attachment 150D-BDS
- g** Used On Mast A613, Attachment 150D-BSS
- h** Used On Mast A613, Attachment 150D-RRB
- i** Used On Mast A613, Attachment 90F-RCF, 90F-RCP, 100F-RCF, 100F-RCP
- j** Used On Mast A614, Attachment 100D-RRB, 120D-RRB
- k** Used On Mast A614, Attachment 120F-RCP
- l** Used On Mast A614, Attachment 130F-RCP
- m** Used On Mast A614, Attachment 140D-PBS
- n** Used On Mast A614, Attachment 150D-BSS
- o** Used On Mast A614, Attachment 150D-RRB
- p** Used On Mast A614, Attachment 159D-BDS
- q** Used On Mast A614, Attachment 90F-RCF, 90F-RCP, 100F-RCF, 100F-RCP

BRAKE AND INCHING PEDAL CONVERSION

DESCRIPTION	PART NUMBER
Kit-Single to Dual Drive Wheel	1655416
Kit-Brake (Single to Dual Pedal Inch Brake)	1655415

BRAKE AND INCHING PEDAL CONVERSION (CONTINUED)

DESCRIPTION	PART NUMBER
Kit-Dual Brake Pedal (Bolt Actuation)	4017125

SEAT CONVERSION KITS

DESCRIPTION	PART NUMBER
Kit-Swivel Seat Full Susp (Full Suspension Vinyl w/o E-Hyd Controls)	1655405
Kit-Swivel Seat Full Susp (Full Suspension Cloth w/o E-Hyd Controls)	1655406
Kit-Swivel Seat Full Susp (Full Suspension Vinyl with E-Hyd Controls)	1655407
Kit-Swivel Seat Full Susp (Full Suspension Cloth with E-Hyd Controls)	1655408

ADD-ON OPTION KITS

DESCRIPTION	PART NUMBER
Kit-Fire Extinguisher (W/o Cab) (With Overhead Guard)	1650586
Kit-Fire Extinguisher (With Cab)	1635618
Kit-Load Weight on Display (With E-Hydraulics Only)	a 1641495
Kit-Mirror (With Overhead Guard)	1581968
Kit-Mirror (Dual Mirrors For Cab)	1602398
Kit-Impact Monitoring (With Immediate Shutdown)	a 1641523
Kit-Impact Monitoring (With 30 Second Shutdown)	a 1641524
Kit-Powertrain Protection (English - US Language)	a 1585854
Kit-Back-Up Alarm (87 dbA)	a 1657000
Kit-Back-Up Alarm (97 dbA)	a 1657001
Kit-Back-Up Alarm (102 dbA)	a 1657002
Kit-Back-Up Alarm (107 dbA)	a 1657003
Kit-Back-Up Alarm (82-102 dbA)	a 1657004
Kit-Accumulator	1658249
Kit-Electronic Monitoring	a 1629208
Traction Speed Limit Kit	1581970
Operator Check List Kit	1624015
Kit-Service (GM LPG regulator Drain GM2.4L and 4.32) (LPG Regulator Drain)	1664940
Add Operator I.D. Kit	1623186
Remove Operator I.D. Kit	1624007

FOOTNOTES:

- a** This kit requires software that must be dealer installed. Dealer needs to obtain a new Configuration Data File (CDF) from Aftermarket Services. The CDF should be ordered from the Software Resources page of HYPASS Online. See Service Gram LD00018.

MISCELLANEOUS CONVERSION KITS

MISCELLANEOUS CONVERSION KITS (CONTINUED)

DESCRIPTION	PART NUMBER
Kit-Keyswitch to Pushbutton (Pushbutton Start with Remote Key Switch)	a1624521
Kit-Return to Set Tilt 3 Way (Mini Lever without Clamp)	a1658860
Kit-Return to Set Tilt 4 Way (Mini Lever without Clamp)	a1658861
Kit-Return to Set Tilt 3 Way (Mini Lever with Clamp)	a1658863
Kit-Return to Set Tilt 4 Way (Mini Lever with Clamp)	a1658864
Kit-Fwd/Rev Lever to Monotrol	a1625467
Kit-Monotrol to Fwd/Rev Lever	a1583198
Kit-Red Seat Belt	1636120
Kit -Liner Assy w/secondary Filter for 6" Air Cleaner, Diesel	1670586
Kit-Mini Lever Conv 4 Way (Altered GM 4.3L w/Intake Valve Seat Insert)	1703633
Kit-Gas Spring	4016889

FOOTNOTES:

- a** This kit requires software that must be dealer installed. Dealer needs to obtain a new Configuration Data File (CDF) from Aftermarket Services. The CDF should be ordered from the Software Resources page of HYPASS Online. See Service Gram LD00018.

E-HYDRAULIC CONTROL CONVERSION KITS

(→ PENDING PER ECN 106383)

DESCRIPTION	PART NUMBER
Kit-Mini Lever Conv 3 Way (without Clamp to 3 Way with Clamp)	a1585281
Kit-Mini Lever Conv 3 Way (With Clamp to 3 Way Without Clamp)	a1607685
Kit-Mini Lever Conv 4 Way (With Clamp to 4 Way Without Clamp)	a1635699
Kit-Mini Lever Conv 3 Way (without Clamp to 4 Way without Clamp)	a1661207
Kit-Mini Lever Conv 3 Way (without Clamp to 4 Way with Clamp)	a1661212
Kit-Mini Lever Conv 4 Way (without Clamp to 4 Way with Clamp)	a1703633

FOOTNOTES:

- a** This kit requires software that must be dealer installed. Dealer needs to obtain a new Configuration Data File (CDF) from Aftermarket Services. The CDF should be ordered from the Software Resources page of HYPASS Online. See Service Gram LD00018.

E-HYDRAULIC CONTROL CONVERSION KITS

(PENDING PER ECN 106383 →)

DESCRIPTION	PART NUMBER
Kit-Mini Lever Conv 3 Way (without Lockout to with Lockout)	1701683
Kit-Mini Lever Conv 3 Way (with Lockout to without Lockout)	1701682
Kit-Mini Lever Conv 4 Way (with Lockout to with Lockout)	1701684
Kit-Mini Lever Conv 3 Way (without Clamp to 4 Way without Clamp)	4014687
Kit-Mini Lever Conv 3 Way (without Clamp to 4 Way with Clamp)	4014688

E-HYDRAULIC CONTROL CONVERSION KITS
(PENDING PER ECN 106383 →)
(CONTINUED)

DESCRIPTION	PART NUMBER
Kit-Mini Lever Conv 4 Way (without Lockout to with Lockout)	1701685

HYDRAULIC CONTROL CONVERSIONS
MANUAL HYDRAULICS

DESCRIPTION	PART NUMBER
Kit-Manual Lever Conv 3 Way (without Clamp to 3 Way with Clamp)	1677913
Kit-Manual Lever Conv 3 Way (without Clamp to 4 Way with Clamp)	1678508
Kit-Manual Lever Conv 3 Way (without Clamp to 4 Way without Clamp)	1678509

AUXILIARY TUBE EXTENSION KITS

DESCRIPTION	PART NUMBER
Kit-Quick Disconnect Fitting	1650605
Kit-Aux Tube Extension (Three Function Class IV Std Carriage, 2 LFL) (Three Function Class IV Std Carriage, 2 Stg LFL)	1658112
Kit-Aux Tube Extension (Four Function Class IV Std Carriage, 2 Stg LFL) (Four Function Class IV Std Carriage, 2 STG LFL)	1658113
Kit-Aux Tube Extension (Three Function Class IV, Std Carriage, 3 Stg FFL) (Three Function Class IV Std Carriage, 3 Stg FFL)	1658114
Kit (Quick Disconnect, 2 Stg LFL, 3rd Function)	4016365
Kit (Quick Disconnect, 2 Stg LFL, 3rd and 4th Function)	4016366
Kit (Quick Disconnect, 3 Stg FFL, 3rd Function)	4016367
Kit (Quick Disconnect, 3 Stg FFL, 3rd and 4th Function)	4016368

HEADER HOSE CONVERSION KITS TWO STAGE LIMITED FREE-LIFT

A613

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS				
	2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
Kit-Hose Group 2 to 3 Way	1658988	1648691	1648695	1658991	1658994

A613

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS				
	2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
Kit-Hose Group 2 to 4 Way	1658990	1648693	1648697	1658993	1658996

A613

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS				
	2940 mm (115.7 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)	5940 mm (233.9 in.)
Mast Group Number	A613 2940	A613 3340	A613 4340	A613 5340	A613 5940
Kit-Hose Group 3 to 4 Way	1658989	1648692	1648696	1658992	1658995

**HEADER HOSE CONVERSION KITS
THREE STAGE FULL FREE-LIFT****A614**

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS		
	4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
Mast Group Number	A614 4640	A614 5540	A614 6140
Kit-Hose Group 2 to 3 Way	1648927	1648931	1648935

A614

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS		
	4640 mm (182.7 in.)	5540 mm (218.1 in.)	6140 mm (241.7 in.)
Mast Group Number	A614 4640	A614 5540	A614 6140
Kit-Hose Group 2 to 4 Way	1648929	1648933	1648937

A614

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS	
	4640 mm (182.7 in.)	6140 mm (241.7 in.)
Mast Group Number	A614 4640	A614 6140
Kit-Hose Group 3 to 4 Way	1648928	1648936

LIGHT CONVERSION KITS

DESCRIPTION	PART NUMBER
Kit-Light (Front Drive/Rear Work Light, with Harness and Overhead Guard)	a1626526
Kit-Light (Strobe, Flash Tube w/o other lights, with Overhead Guard and with Harness)	a1626527
Kit-Light (Strobe, Flash Tube with Other Lights and Overhead Guard, w/o Harness)	a1583710
Kit-Strobe Light (Amber Strobe with Cab)	a1625728
Kit-Strobe Light (Amber Strobe LED Light with Cab)	a1655298
Kit-Light (LED Strobe with other lights for Overhead Guard, w/o Harness)	a1655205
Kit-Light (LED Strobe w/o Other Lights for Overhead Guard with Harness)	a1655206
Kit-Work Light Extension (Without Cab, with 2 Stg LFL Mast)	1670068
Kit-Work Light Extension (With Cab and 2 Stg LFL Mast)	1670070
Kit-Light (Front Drive/Rear Work lights, w/o Harness, with Overhead Guard)	1583708

LIGHT CONVERSION KITS (CONTINUED)

DESCRIPTION	PART NUMBER
Kit-Light (Front Drive/Rear Work Light, with Harness and Overhead Guard)	1673180
Kit-Light (Front Drive/Rear Work lights, w/o Harness, with Overhead Guard)	1676111
Kit-Light (Brake/Tail/Back-up Lights with Harness, with Overhead Guard)	1626528
Kit-Light (Brake/Tail/Back-up Lights w/o Harness with Overhead Guard)	1583712
Kit-Light (Front Drive/Rear Work Light, with Harness and Overhead Guard)	1626526
Kit-Front Drive/Rear Worklight (LED w/o Other Lights for Overhead Guard with Harness)	1700248
Kit-Front Drive/Rear Worklight (LED with other lights for Overhead Guard, w/o Harness)	1700245
Kit-Front Drive/Rear Worklight (LED w/o Other Lights for Overhead Guard with Harness)	1700261
Kit-Front Drive/Rear Worklight (LED w/o Other Lights for Overhead Guard with Harness)	1700263

FOOTNOTES:

- a** This kit requires software that must be dealer installed. Dealer needs to obtain a new Configuration Data File (CDF) from Aftermarket Services. The CDF should be ordered from the Software Resources page of HYPASS Online. See Service Gram LD00018.

REPLACEMENT KITS

DESCRIPTION	PART NUMBER
Kit-Bracket (Exhaust)	4014278

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	4-145	3	1465466	4-145	4		7-19	2		4-69	17
1463138	4-131	5	1465468	4-90	29	1471838	7-19	2		4-73	15
	4-135	8		4-99	2	1471922	6-2	1		4-77	20
	4-135	9		4-101	7		7-19	2		4-85	39
	12-2	2		4-103	4	1473099	2-73	11		4-92	44
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	4-83	5		4-105	5		8-13	23		4-101	5
	4-83	17		4-107	10		9-63	6		4-105	10
	4-84	30	1465469	4-90	30		10-17	10		4-107	5
	4-84	31		4-99	3		10-23	2		4-141	4
	4-85	34		4-101	6		10-25	20		4-141	7
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	4-86	47		4-105	6		11-25	10		4-66	30
	4-86	48		4-107	9		11-25	21		4-66	31
	4-89	4		4-145	5		11-31	2		4-69	17
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	4-77	20		4-141	4		4-109	19		4-59	16
	4-78	33		4-141	7		4-113	15		4-83	2
	4-85	39	1482701	2-31	4		4-113	16		4-89	2
	4-92	44	1482905	1-57	4		4-117	13	1489656	4-59	8
	4-97	11	1482906	1-57	6		4-117	14		4-84	22
1476421	1-3	5	1482950	1-47	9		4-121	13		4-85	36
1480187	4-29	16	1483828	1-49			4-121	17		4-90	22
	4-86	45		1-51			4-121	18		4-91	41
	4-92	49	1484377	4-57	2		4-131	3		4-109	9
	4-125	9		4-83	3	1484557	4-109	4		4-110	23
	4-127	8		4-83	4		4-109	6		4-110	30
1480188	4-125	9		4-83	5		4-117	4		4-113	1
	4-127	8		4-84	18		4-117	6		4-114	22
1480237	1-3	16		4-84	29		4-141	5		4-118	21
	1-13	20		4-84	30	1484558	4-109	4		4-118	28
	1-37	12		4-86	46		4-109	6		4-121	1
	2-73	6		4-86	47		4-117	4		4-121	6
	3-11	17		4-86	48		4-117	6		4-122	24
	3-15	2		4-89	3		4-141	5	1489657	4-59	9
	4-5	12		4-89	4	1484709	4-35	10		4-84	22
	4-7	12		4-89	5		4-141	2		4-85	36
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	4-45	9		4-92	52	1486738	8-13	6		4-110	30
	5-9	5		4-92	53	1486740	8-13	5		4-113	1
	7-9	3		4-97	1	1486742	9-63	11		4-114	22
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	10-27	11		4-110	29	1486749	5-9	1		4-121	1
1482663	4-65	12		4-113	2	1486751	11-9	27		4-121	6
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	4-105	10		4-122	29	1487095	10-25	1		4-97	3
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1482667	4-65	12		4-125	8	1487099	12-11	7		4-110	27
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	4-135	4		4-139	8		8-8	39		4-90	31
	4-135	5		4-139	9		8-11	2	1502626	4-84	18
	4-135	6	1493447	4-139	5		12-7	3		4-90	31
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	4-139	11		4-125	8		4-89	1		11-25	7
	4-141	3		4-127	9		4-89	3	1503088	4-101	3
	4-141	6		4-142	2		4-131	9		4-105	4
	4-141	8	1493466	4-35	24		4-137	1		4-107	7
	4-142	1		4-35	25		4-139	1		4-145	3
1490243	4-83	11	1494726	9-61			4-141	1	1503334	4-145	1
	4-84	26	1494888	1-19	2	1500925	4-110	29	1504075	2-15	6
	4-89	11		1-25	20		4-113	2		2-43	6
	4-90	26	1495279	10-17	2		4-118	27	1504083	1-29	
	4-90	27	1498044	4-91	38		4-122	30	1507571	4-99	7
	4-95	4	1498045	4-84	32	1501258	3-25			4-101	1
	4-95	7		4-85	33	1501259	3-25			4-103	7
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	4-97	8		4-91	37	1501896	4-30	46		4-107	1
	4-110	27	1498424	4-101	5	1501919	4-29	20		4-145	1
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1510116	1-39	9	1514965	2-35	34	1523732	1-70	3		4-103	7
	2-27	8	1514968	2-33	13	1523734	1-70	2		4-145	1
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1510117	2-5	11	1516202	7-9	7	1523742	1-70			4-73	14
	2-7	28		8-13	18	1524267	3-39	1	1527305	4-99	7
1510126	8-3	5	1516208	9-3	34	1525563	4-83	1		4-101	1
	8-7	5	1517010	2-47	15		4-89	1		4-103	7
1511729	3-9	13	1517011	2-47	15	1525564	4-131	9		4-105	1
1511970	2-53	8	1517120	4-41	3		4-137	1		4-107	1
1512403	7-2	1	1517361	4-63	9		4-137	1		4-145	1
	7-3	1		9-13	15		4-139	1	1527813	8-13	6
1512536	1-53	10		9-15	12	1525565	4-57	2		8-13	17
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	3-35	12	1517906	8-13	11		4-92	51		4-7	5
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1514603	4-83	14	1521989	4-85	37		4-114	21		4-15	15
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	10-27	9		12-21	6	1530732	5-11	22	1532571	4-109	7
1527880	1-3	14	1529016	10-17	9		5-13	14		4-113	7
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1528315	4-61	2	1529787	2-9	2		1-39	25		4-113	11
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1686965	3-17	4	1691589	2-47	9	1691671	3-33	12	1691848	2-84	2
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2070726	1-5	6		6-9			9-61		2087954	11-13	11
2070975	1-5	11		6-11		2082827	9-59	4	2087955	11-13	11
2070996	1-25	2	2078969	6-5	1		9-61		2087972	11-13	
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2071094	7-17	7		6-9		2083634	2-29	5	2087977	11-13	
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2071579	2-19	32	2079281	4-59	4	2085188	1-51		2088540	10-17	21
2072202	2-7	27	2079326	4-57	1	2085190	1-51		2088545	10-17	21
2072631	3-11	6	2079365	7-11	29	2085503	11-9	17	2088550	10-17	21
	3-15	6		7-17		2085506	11-9	17	2088551	10-17	21
2072782	3-41	3	2079369	7-2	6	2085508	11-9	17	2088564	11-25	8
2073114	1-67	3	2079843	4-59	15	2085641	2-19	16	2088567	11-25	8
2073115	1-67	2	2079983	3-11	28	2085875	1-67	12	2088584	11-26	47
2073116	1-67	6		3-15	4	2085877	1-67	5	2088587	11-26	47
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2073119	1-67	8	2081136	2-23	23	2085967	10-11	5	2088606	11-26	29
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2073122	1-67	10	2081230	1-69	2	2085974	10-11	5	2088624	11-26	46
2073123	1-67	11	2081231	1-69	3	2085979	10-11	5	2088627	11-26	46
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2074231	3-9	16	2081237	1-69	9	2086031	10-11	4	2090303	2-19	22
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2074702	3-41	1	2081240	1-69	12	2086042	10-11			4-61	
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