

PARTS MANUAL

**H50CT
(A274)**

CUSTOMER EDITION

HYSTER

SECTIONS

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This Parts Manual is divided into 13 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.

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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.

HYSTER UNIT CODE D001 NORTH AMERICA 06/2001

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			50	14							

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- 7 MAST-TWO STAGE
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- 9 MAST-TWO STAGE
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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
	2022547	Transmission	1
	2023329	Transmission	1
1	2021670	Case	2
2	2023418	Bearing Cap	4
3	296426	Washer	4
4	293947	Bolt	1
5	2021390	Cover	2
6	1371656	Cotter Pin	2
7	2021915	O-Ring	4
8	2021329	Plug	4
9	2021675	Housing	22
10	2021336	Pin	39
11	287860	Bolt	1
12	292682	Lockwasher	1
13		Hydraulic Pump	8
		⇒ Figure 5-3	8
14	2021345	Gasket	1
15	214364	Bolt	1
16	296418	Washer	1
17	2021388	Temperature Switch	1
18	2021389	Breather	9
19	2021383	Dipstick	9
20	292515	Bolt	2
21	136692	Nut	3
22	292527	Cap screw	3
23	292531	Lockwasher	4
24	292583	Bolt	4
25	293637	Washer	1
26	296420	Washer	1
	996403	Transmission Kit (Includes Item 7)	1
	996405	Transmission Kit (Includes Item 14)	1

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

See Service Manual for service procedures.

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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 13-1) 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:

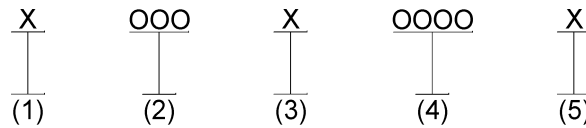
- **D/B 3/00**
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00** →
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00 ↔ D/B 4/00**
Indicates a range of production dates of the item affected.

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

ORDERING PARTS:

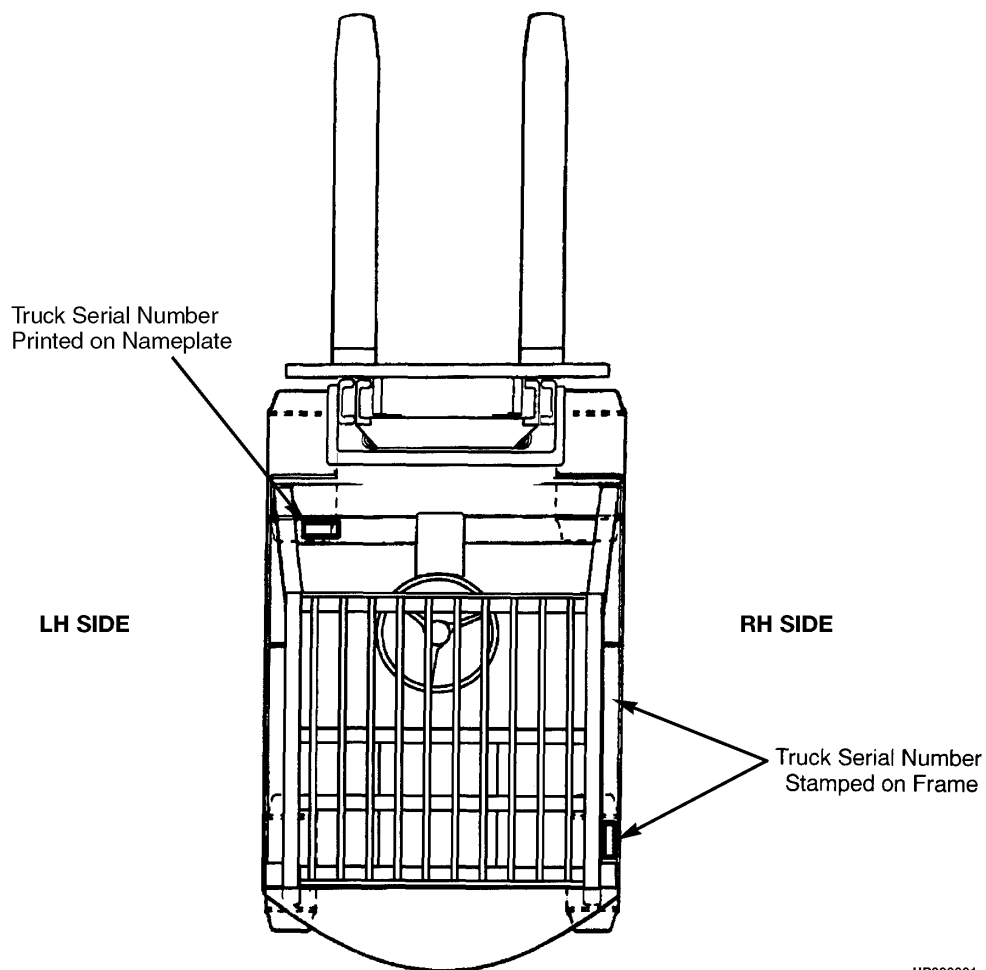
When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

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.

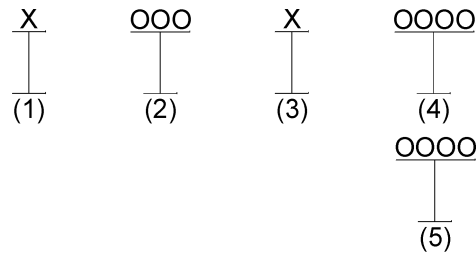
For pending serial numbers contact your local dealer for Hyster lift trucks.



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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).

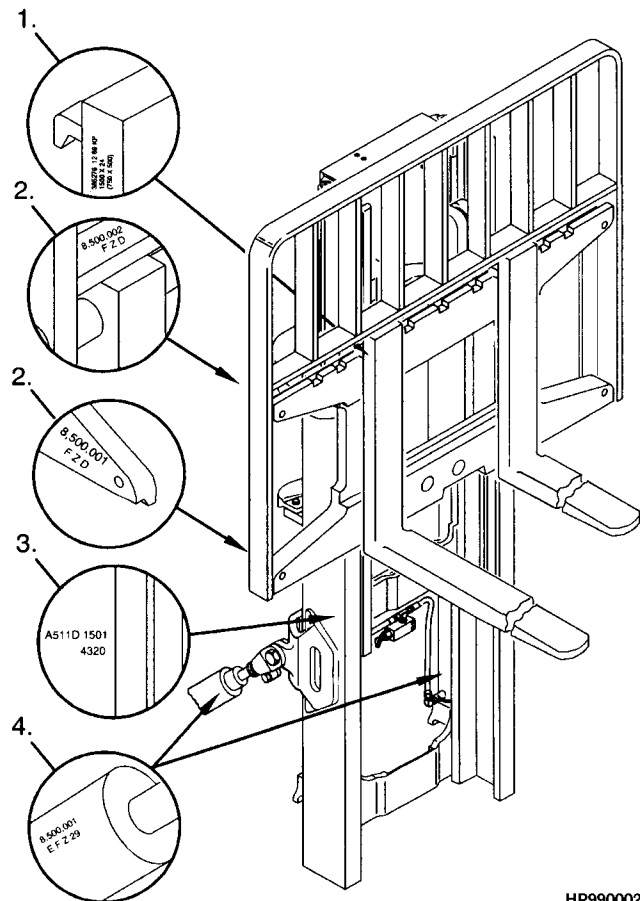
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

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.

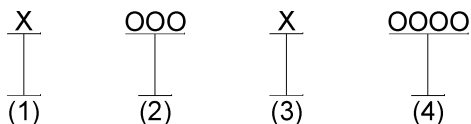
Always refer to the group, serial, or part number when ordering service parts.

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.

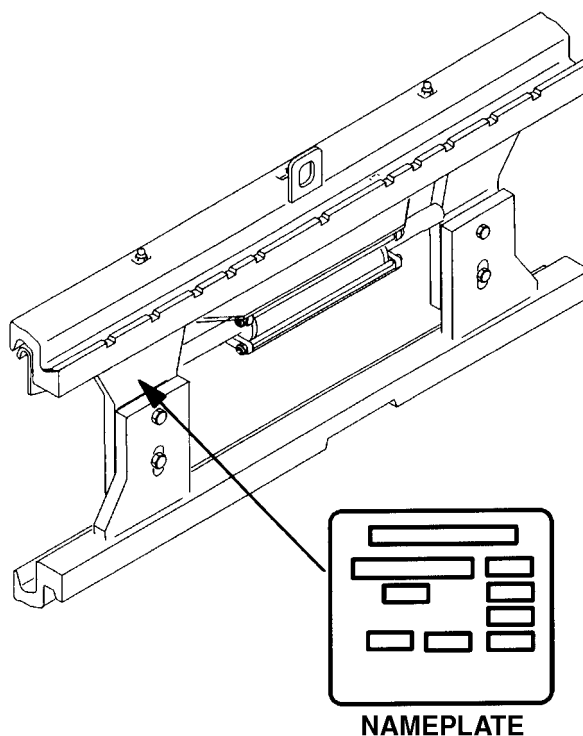


HP990002

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.



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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.....	4014302
Service Manual (Complete).....	4014304
Parts Manual.....	4014303

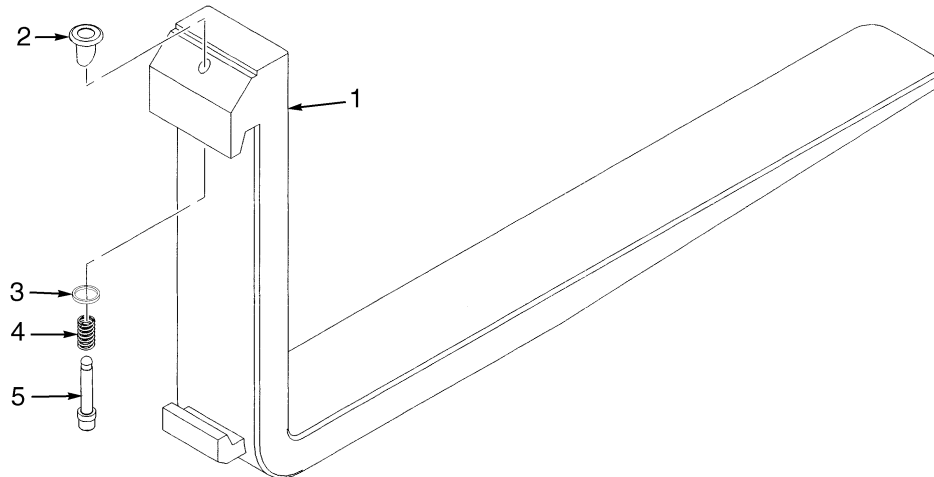
1

FRAME

SECTION 1
FRAME

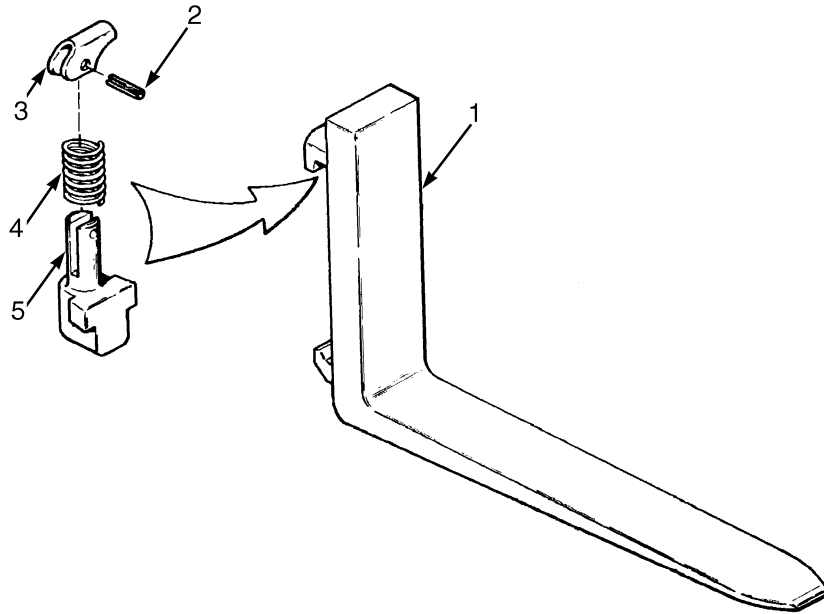
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FORKS (FIGURE 1-1)



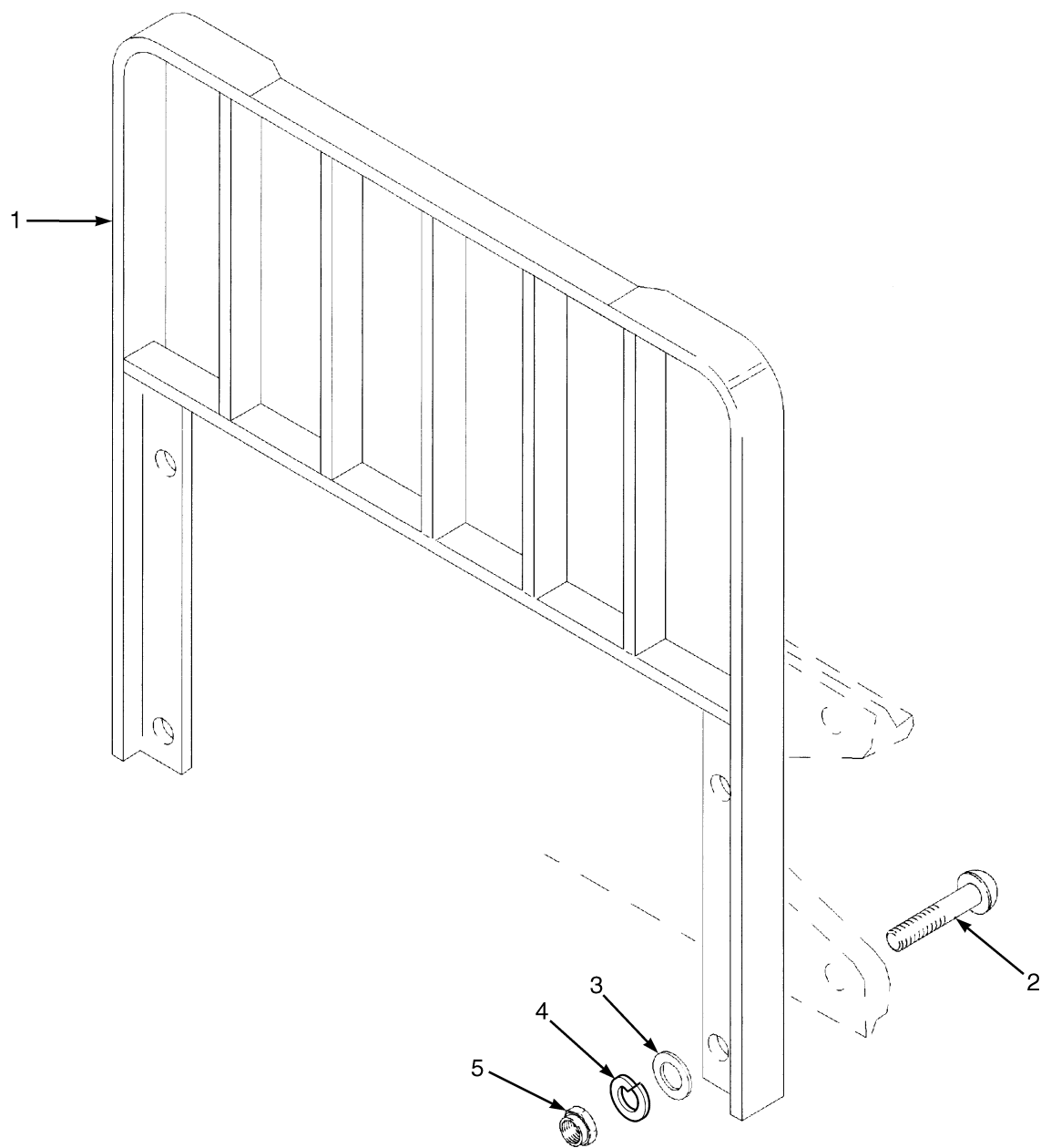
BP000177

ITEM	PART NO.	DESCRIPTION	QTY
1	384213	Fork (42 in.)	2
1	384214	Fork (48 in.)	2
2	1523732	Knob	2
3	1523734	Pin	2
4	1500782	Spring	2
5	1523733	Pin	2
	1523735	Kit-Latch	2

FORKS (FIGURE 1-2)
OPTIONAL

HP120793

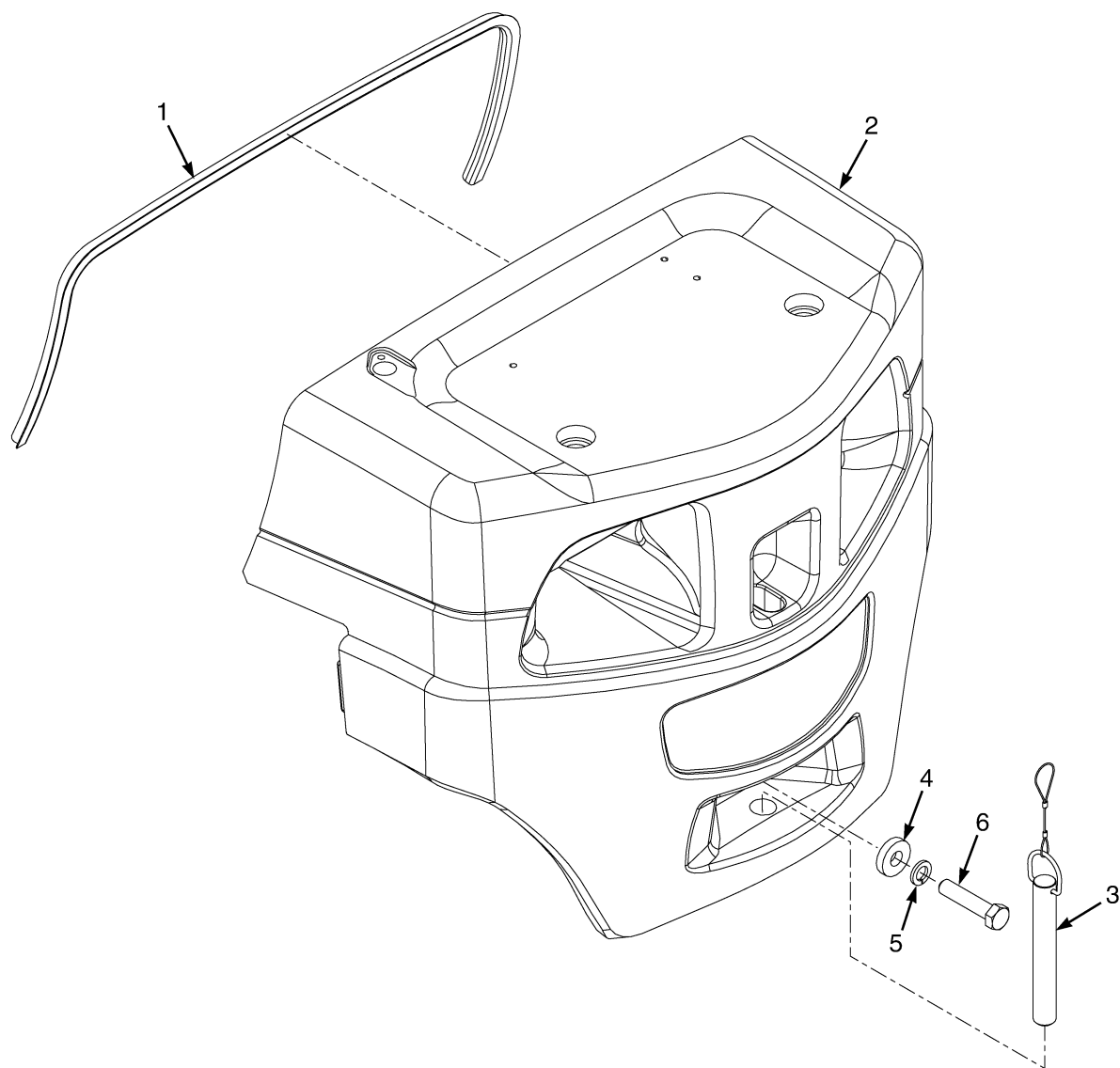
ITEM	PART NO.	DESCRIPTION	QTY
1	1378788	Fork (42 in.)	1
2	302450	Roll Pin	1
3	1378763	Latch	1
4	1378762	Spring	1
5	1378760	Pin	1
	1378765	Kit-Latch (Class II)	1

LOAD BACKREST EXTENSION (FIGURE 1-3)

HP120836

LOAD BACKREST EXTENSION**KEY:****A: For Use With Standard Carriage Only****B: For Use With Integral Side-Shift Carriage Only**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1663441	Load Backrest (Class II) (38.5 in) (Class II)	1	..
1	1663443	Load Backrest (42 in) (Class II)	..	1
2	2034347	Capscrew	..	4
2	1343990	Capscrew	4	..
3	296423	Washer	4	4
4	221771	Washer	4	4
5	300937	Nut	4	4

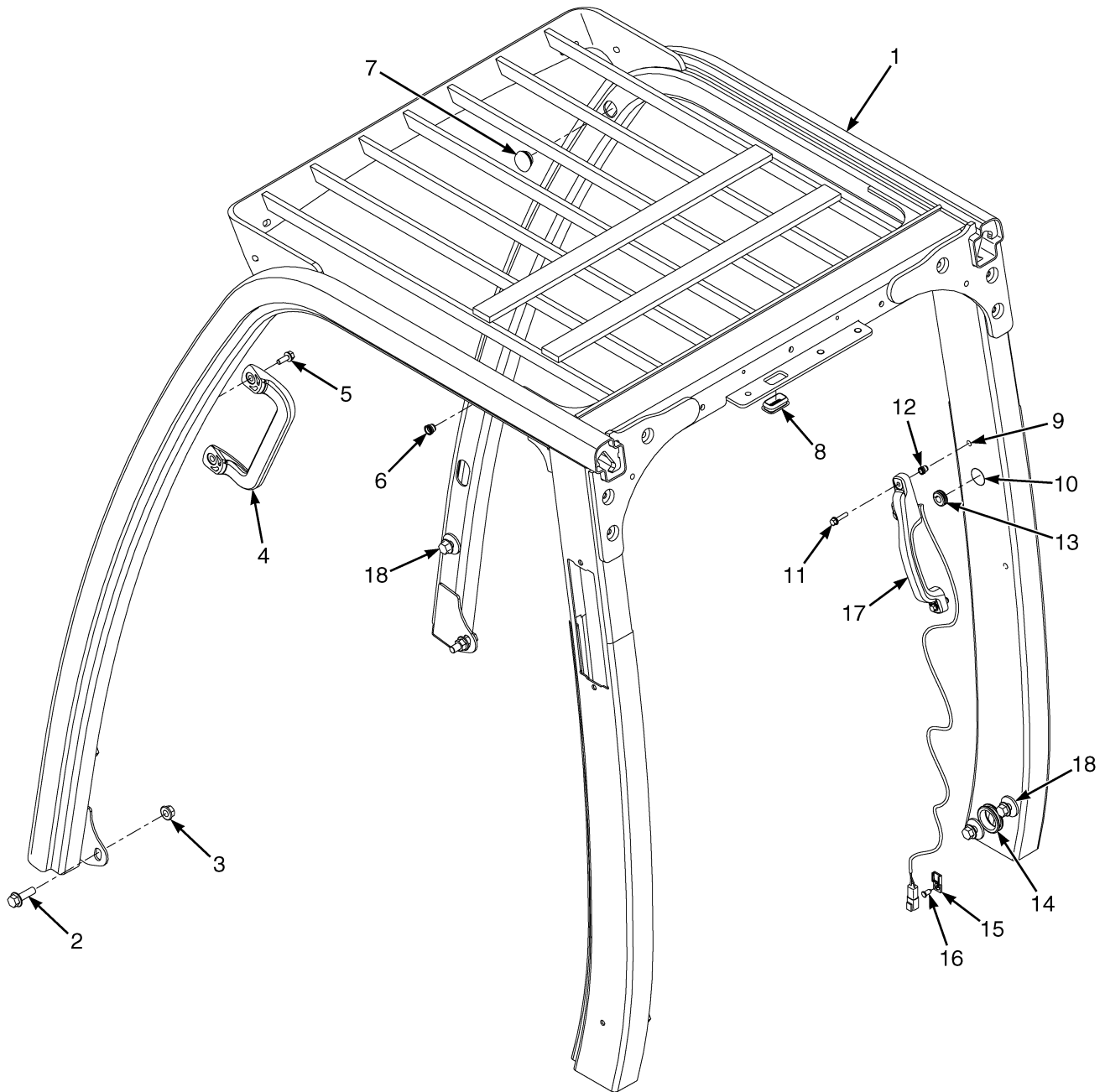
COUNTERWEIGHT (FIGURE 1-4)

BP120686

COUNTERWEIGHT

ITEM	PART NO.	DESCRIPTION	QTY
1	1565084	Seal	1
2	4004895	Counterweight	1
3	1655058	Tow Pin	1
4	1375214	Washer	1
5	292689	Washer	1
6	292610	Capscrew	1

OVERHEAD GUARD (FIGURE 1-5)

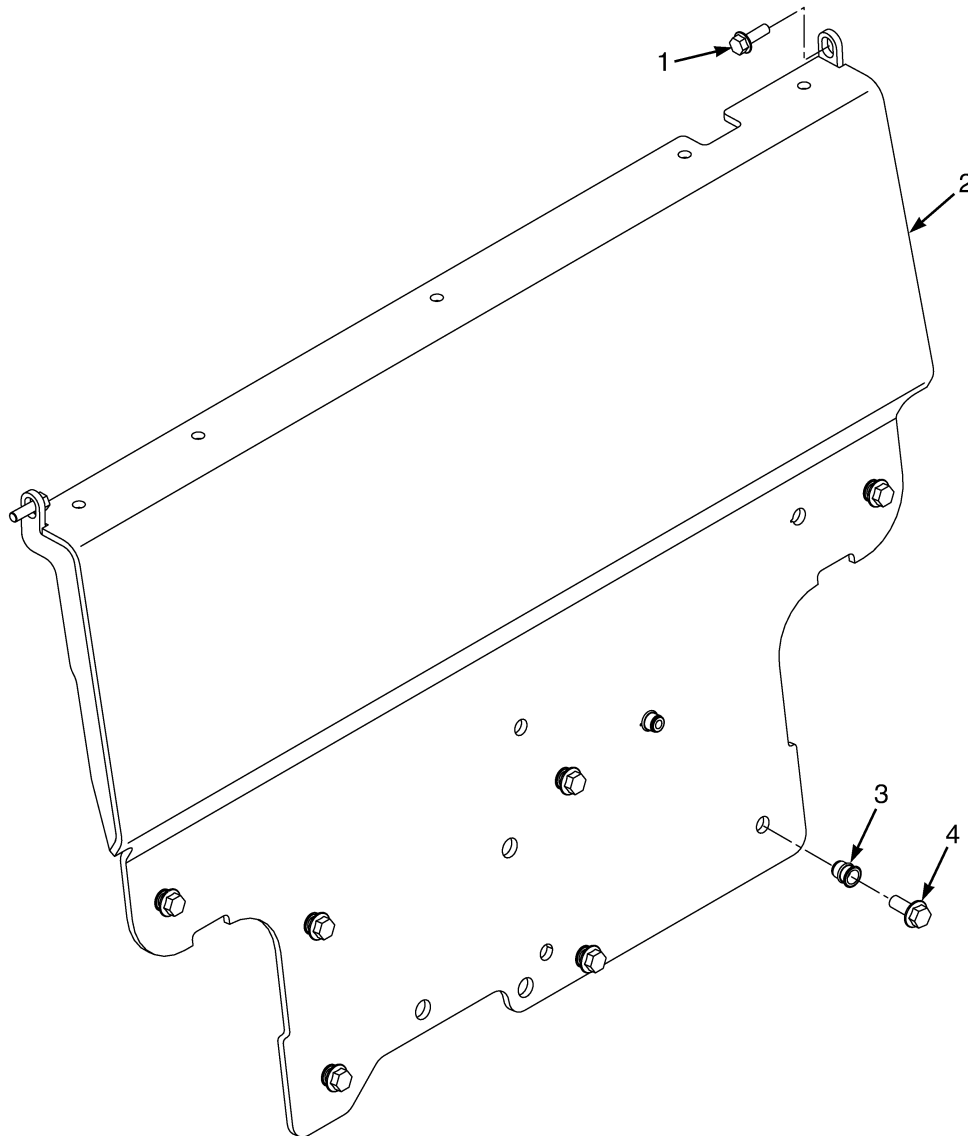


BP120689

OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	1599203	Overhead Guard	1
2	4035130	Capscrew	2
3	1370949		
	1528888	Nut (Shoulder)	2
4	1536813	Handle (Grab)	1
5	1583611	Capscrew	2
6	1531557	Insert	4
7	1558219	Grommet	2
8	1560671	Grommet	1
9	1494888	Plug	4
10	1599415	Plug	1
11	1586495	Capscrew	2
12	1531558	Insert	2
13	1598220	Grommet	1
14	362255	Grommet	1
15	1500912	Clip	1
16	1582464	Fastener	1
17	2070223	Handle Assembly	1
17	2069454	Handle	1
17	1566726	Push Button Switch	1
17	1493465	Connector	1
17	1330414	Connector (Secondary Lock)	1
17	1330437	Terminal (Pin)	1
18	1527888	Capscrew	6
18	1566853	Capscrew (Optional)	6

COWL MOUNT (FIGURE 1-6)



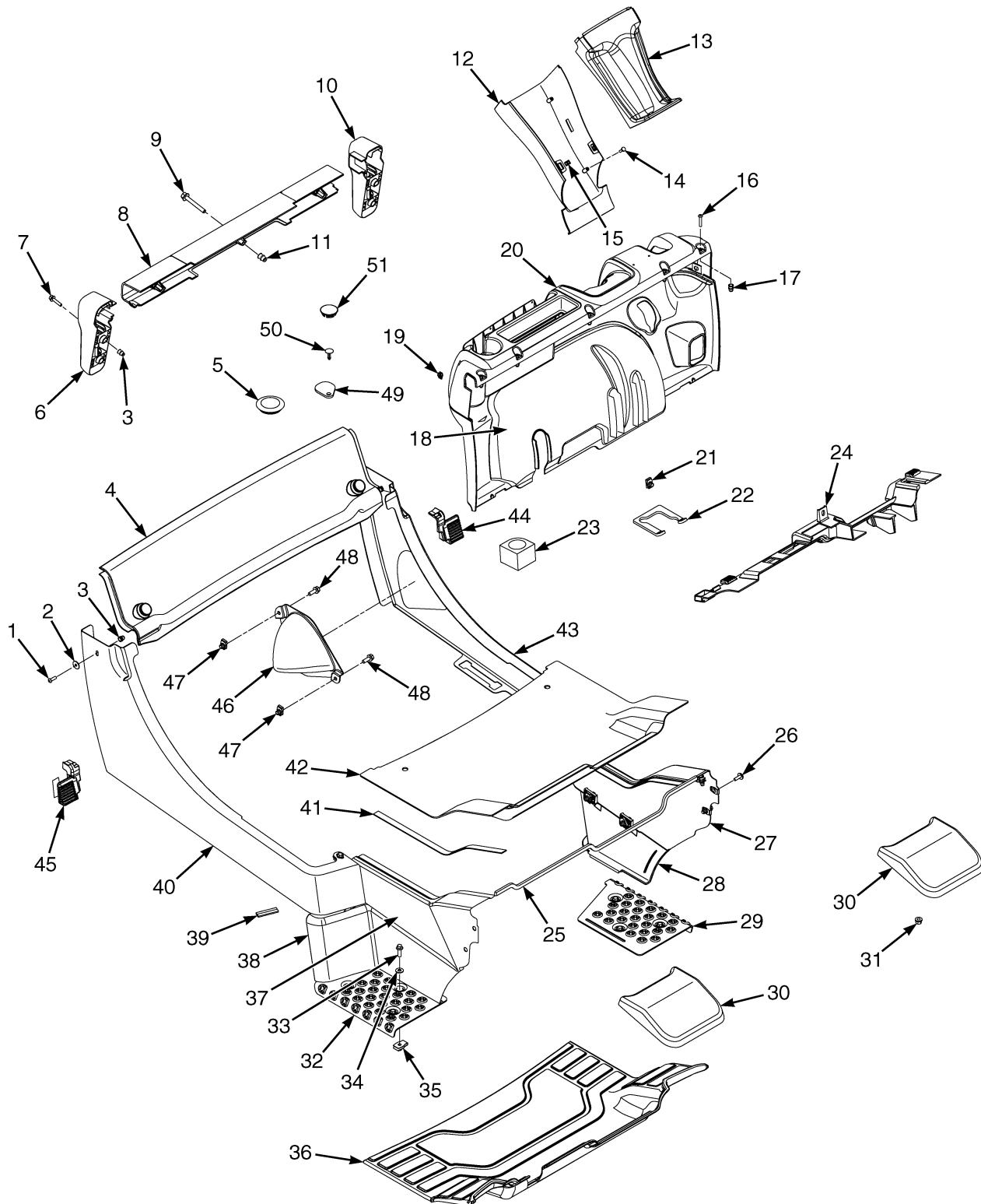
BP120684

ITEM	PART NO.	DESCRIPTION	QTY
1	1583611	Capscrew	2
1	1510113	Capscrew (Optional)	2
2	4007897	Cowl	1
3	1640776	Insert	7
3	1581567	Nut (Optional)	7
3	320160	Washer (Optional)	7
4	1605990	Capscrew	7

NOTES

[illegible]

FLOORPLATES AND COVERS (FIGURE 1-7)



BP120813

FLOORPLATES AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1710006	Capscrew	2
2	1709980	Washer	2
3	1531558	Insert	6
4	1547460	Cover (Radiator)	1
4	1547467	Seal (LH)	1
4	1547468	Seal (RH)	1
4	1588247	Screw	2
4	320157	Washer	2
4	353206	Retaining Ring	2
5	2021395	Cap	4
6	2107957	Tail Light Base (RH)	1
7	1586495	Capscrew	4
8	2067455	Cover (Rear) (Crossmember)	1
9	1540643	Capscrew	3
10	2107958	Tail Light Base (LH)	1
11	1531001	Insert	3
12	2065666	Cover (Steering Column Lower)	1
13	2098330	Cover (Steering Column Upper)	1
14	2027655	Screw	2
15	2065667	Clip	6
16	1710007	Capscrew	5
17	1531001	Insert	5
18	2071593	Panel (Kick)	1
19	2065667	Clip	6
20	1517419	Dash Panel	1
20	2070975	Cup Holder	1
21	1480237	Nut	17
22	1581569	Seal	1
23	1530135	Grommet	1
24	1564396	Cover Plate Assembly	1
24	2071483	Cover	1
25	1529426	Seal	1
26	1583611	Capscrew	17
27	1540859	Panel (Front) (LH)	1
28	2102508	Step Panel (LH)	1
29	4609180	Plate (LH Tread)	1
30	2069008	Mud Flap	2
31	1544153	Locknut	4
32	2110932	Plate (RH Tread)	1
33	4011277	Capscrew	6
34	1581851	Washer	6
35	1393879	Nut (Clip)	6
36	2072213	Floormat	1
37	1540869	Panel (Front) (RH)	1
38	2102507	Step Panel (RH)	1
39	1582072	Trim Seal	2
40	4027451	Panel (RH)	1
41	1564529	Seal	2
42	4035412	Floorplate	1
43	b 4027457	Panel (Rear LH)	1
43	a 4027456	Panel (Rear LH)	1

FLOORPLATES AND COVERS

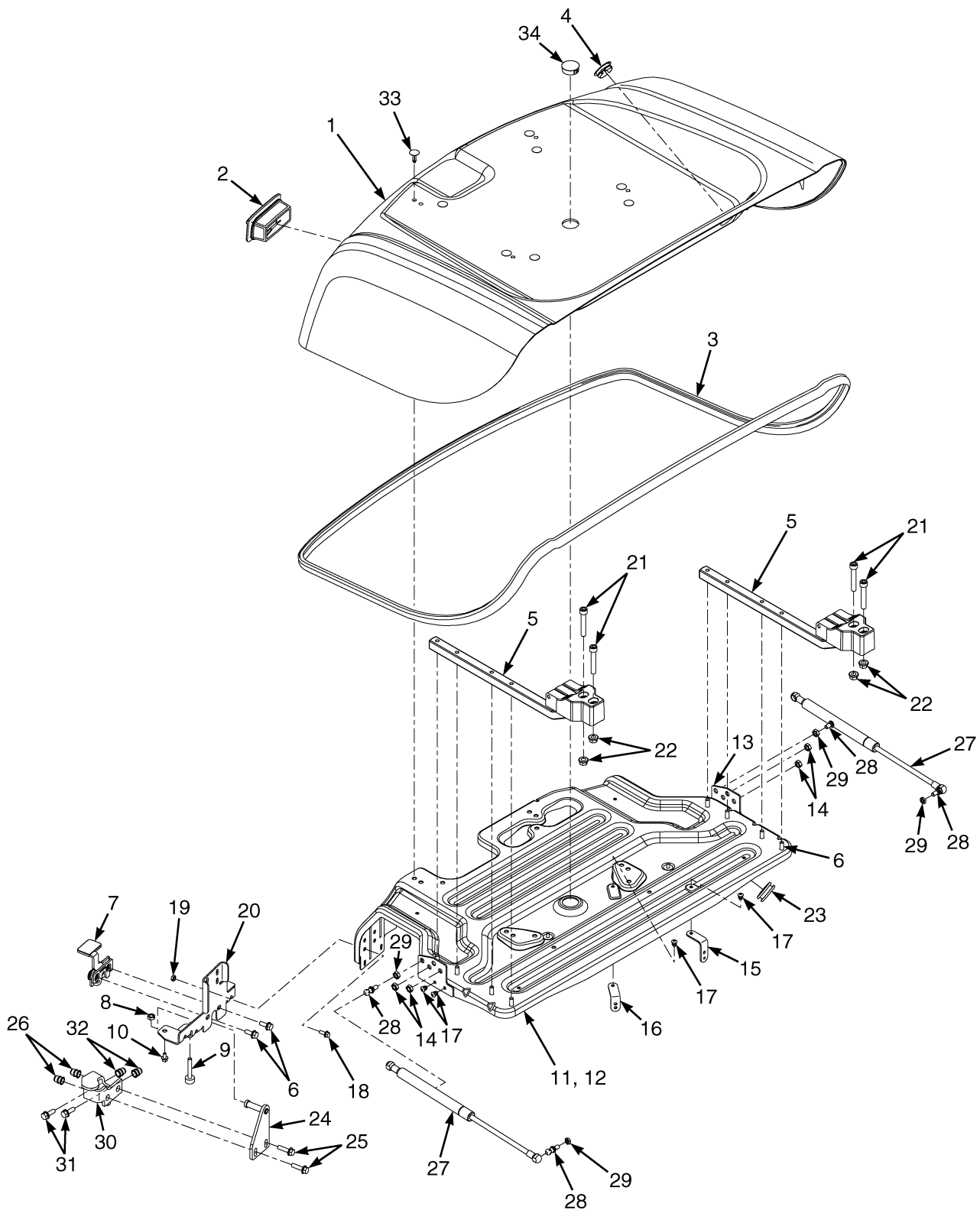
ITEM	PART NO.	DESCRIPTION	QTY
44	2072802	Seal (LH)	1
45	2071508	Seal (RH)	1
46	a 1517656	Shield (Splash)	1
47	a 1480237	Nut	2
48	a 1583611	Capscrew	2
50	a 1347045	Fastener	4
51	b 1616379	Plug (Yellow)	1

FOOTNOTES:**a** Diesel Engine**b** LPG Engine

NOTES

[illegible]

HOOD (FIGURE 1-8)



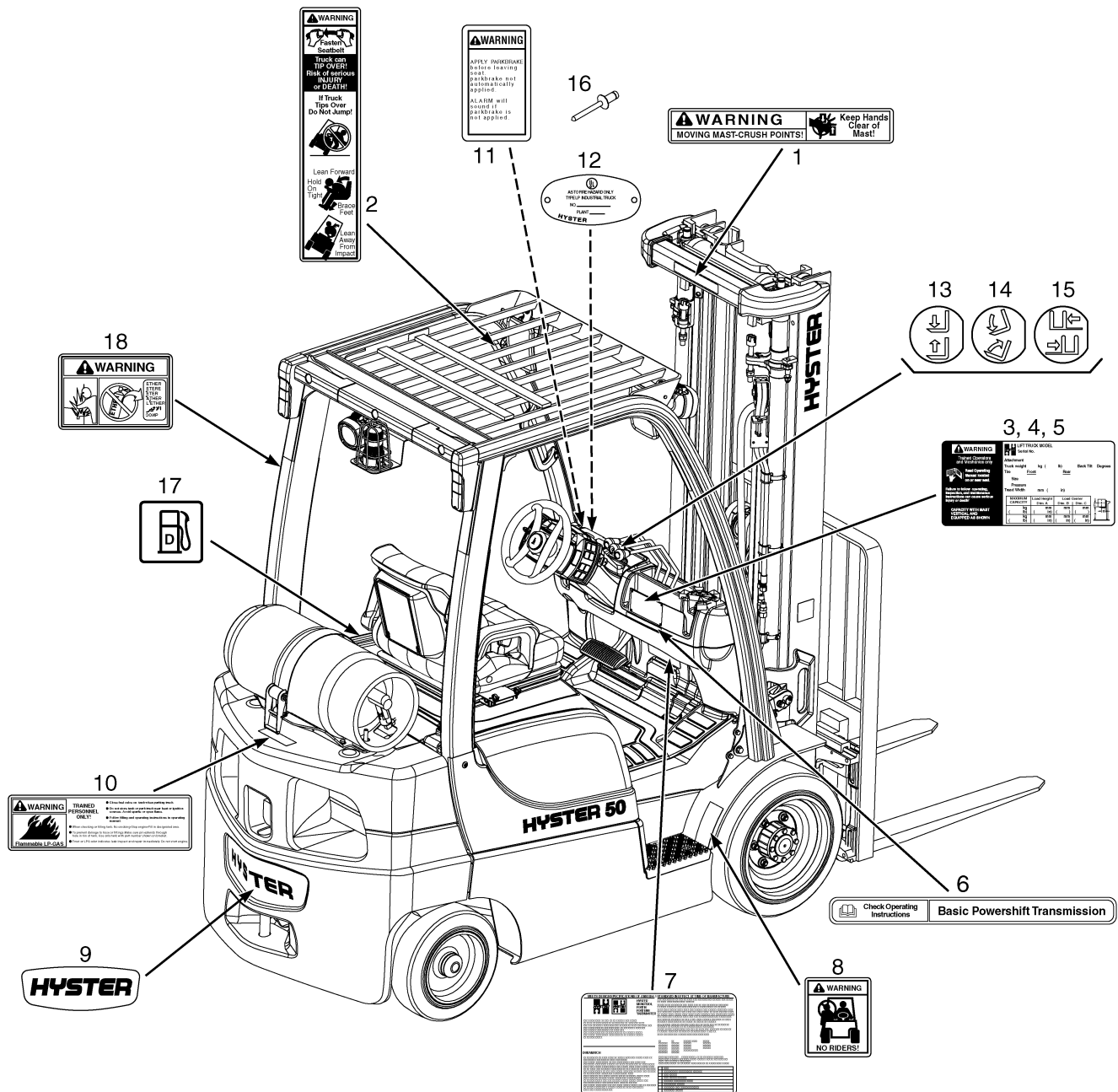
BP120677

HOOD

ITEM	PART NO.	DESCRIPTION	QTY
	4016145	Hood Assembly	1
1	4015886	Hood	1
2	1666732	Boot	1
3	1578698	Seal	1
4	1616379	Plug (Yellow)	2
5	1557697	Hinge	2
6	1527880	Capscrew	10
7	1387170	Latch	1
8	329069	Nut	2
9	1585581	Bumper (Hood)	2
10	1534417	Capscrew	6
11	1676273	Seat Pan	1
11	4025273	Hood Reinforcement (Alternate Part)	1
12	1608874	Hood Reinforcement	1
13	1608875	Bracket	2
14	364868	Nut	10
15	1585590	Bracket	1
16	1582370	Bracket	1
17	1608879	Capscrew	6
18	1527876	Capscrew	4
19	1324360	Nut	4
20	1672560	Plate	1
21	296030	Capscrew	4
22	1460477	Nut	4
23	1561015	Grommet	1
23	4031944	Grommet (Alternate Part)	1
24	1666733	Striker Bolt	1
25	1527881	Capscrew	2
26	1530243	Insert	2
27	1563497	Gas Spring (RH)	1
27	1563497	Gas Spring (LH)	1
27	a 4011435	Gas Spring (LH)	1
28	1563369	Ball Stud (RH)	2
28	1563369	Ball Stud (LH)	2
28	a 4011397	Ball Stud (LH)	2
29	329069	Nut	2
30	1673611	Hood Support	1
31	1583611	Capscrew	2
32	1530243	Insert	2
33	1347045	Fastener	8
34	1585592	Plug	1

FOOTNOTES:**a** With lift and latch option

LABELS (FIGURE 1-9) SHEET 1 OF 2



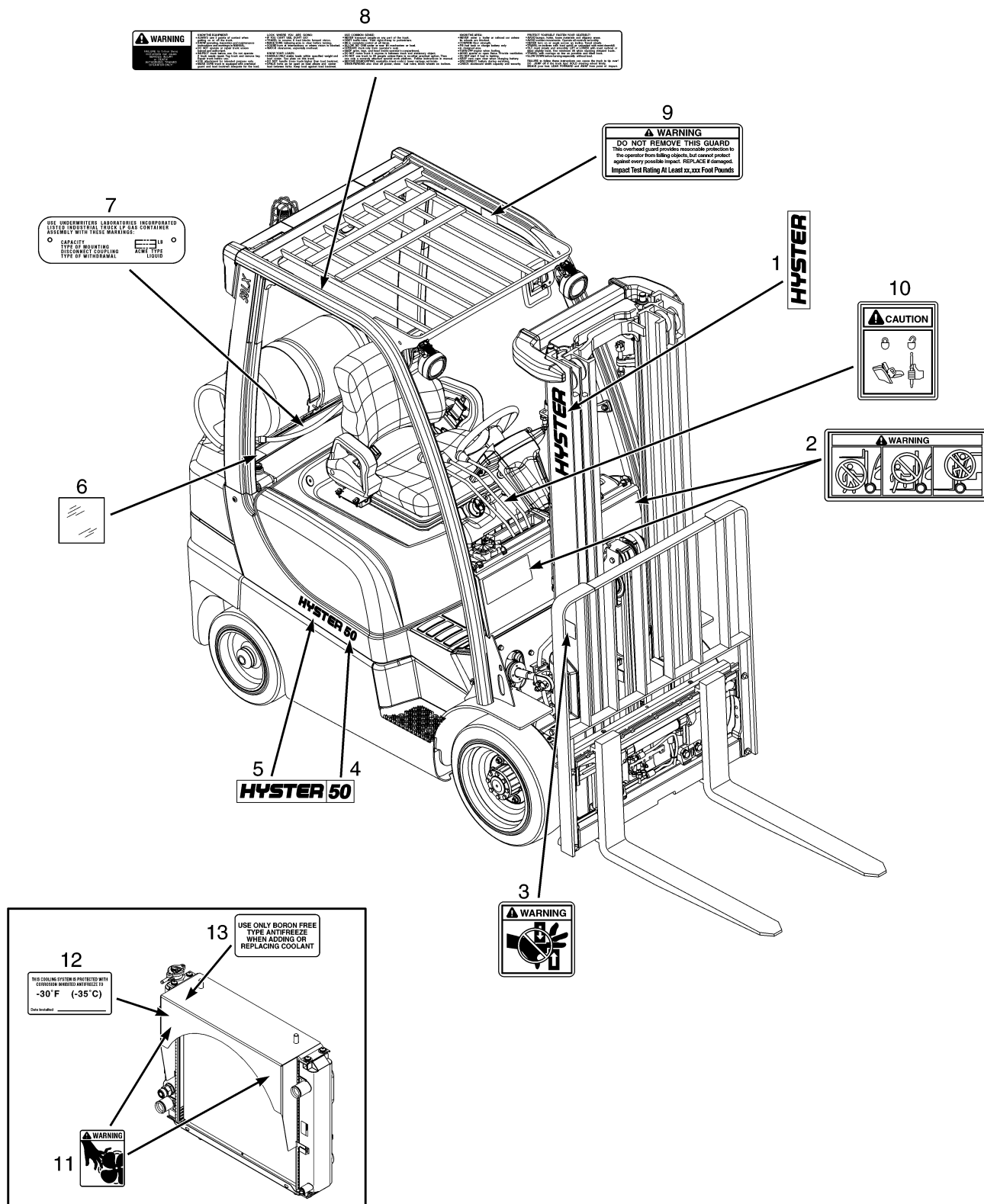
HP121348

LABELS
SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1330919	Label (Mast Warning)	1
2	1330917	Label (Operator Restraint)	1
3	a	Nameplate Tag	1
4	389688	Nameplate Cover	1
5	170658	Rivet	4
5	2307400	Rivet (Optional)	4
6	1589377	Label (Basic Powershift Transmission)	1
7	1534660	Label (Patents and Trademarks)	1
8	1330920	Label (No Riders)	2
9	1677428	Label (Hyster Logo)	1
10	1354171	Label (Flammable LPG)	1
11	2074209	Label (Parking Brake Warning)	1
12	a	Nameplate	1
13	2070296	Lens (Lift)	1
14	2070297	Lens (Tilt)	1
15	2070306	Lens (Side-Shift)	1
15	2070655	Lens (Blank)	1
16	170658	Rivet	4
16	2308673	Rivet (Optional)	1
16	1365922	Gripnail (Optional)	4
17	2074256	Label (Fuel Fill) (Diesel Engine)	1
18	2034459	Label (Ether Warning) (Diesel Engine)	1

FOOTNOTES:**a** Contact your local Hyster dealer

LABELS (FIGURE 1-10) SHEET 2 OF 2

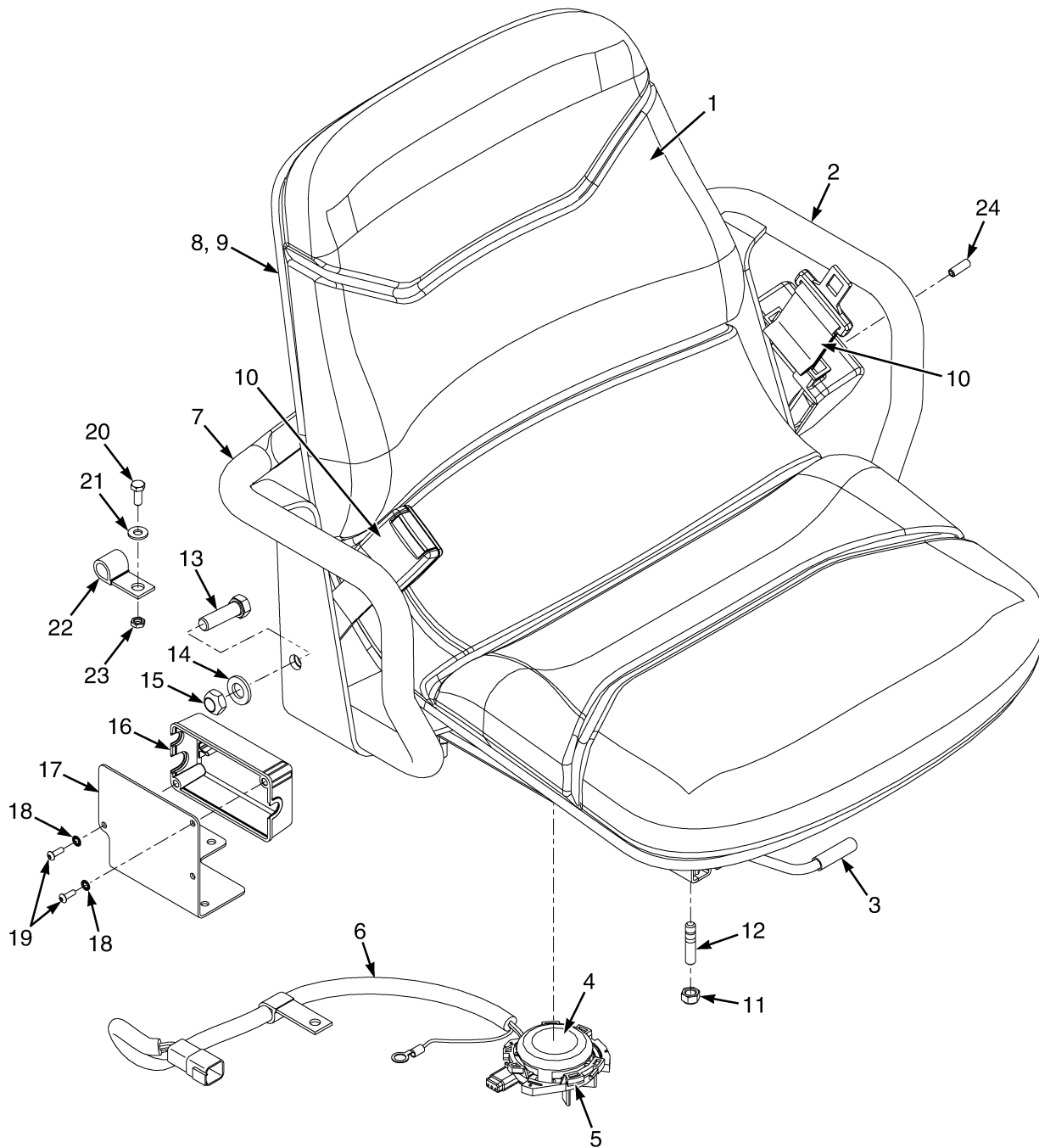


HP120270

LABELS
SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	1562353	Label (Hyster)	2
2	2075656	Label (Mast Warning)	1
3	1335129	Label (Pinch Point)	1
4	1586447	Label (Model 50)	1
5	1586440	Label (Hyster)	2
6	4016905	Label	1
7	1501258	Nameplate (LP Tank)	1
8	2073197	Label (Operator Warning)	1
9	1339843	Label (Overhead Guard) Impact Rating	1
10	2075418	Label (Locking Gas Spring)	1
11	1345939	Label (Fan Warning)	1
12	1354165	Label (Antifreeze)	1
13	1375676	Label (Boron-Free Antifreeze)	1

NON SUSPENSION SEAT (FIGURE 1-11) WITHOUT ELECTRONIC CONTROLS

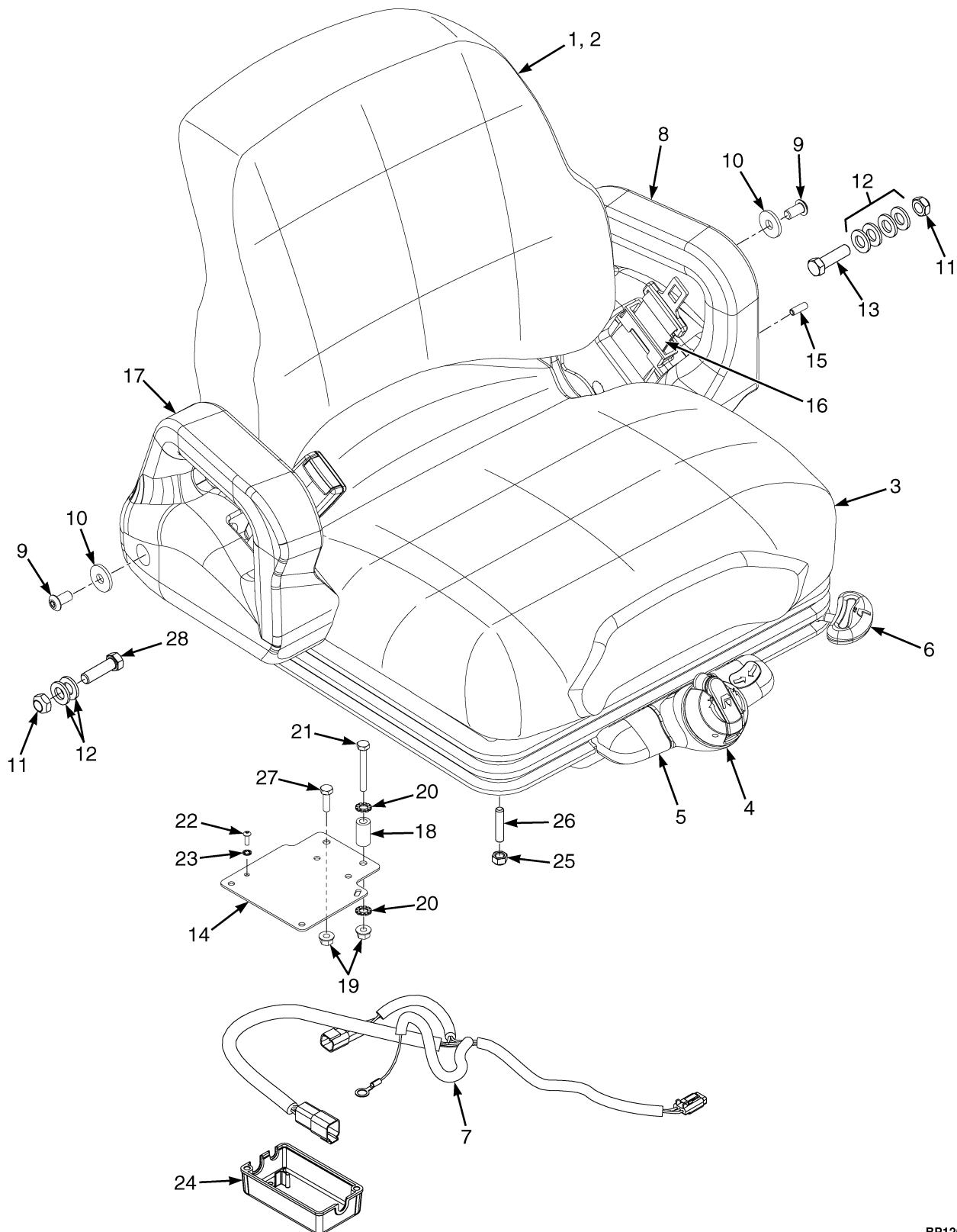


BP120693

**NON SUSPENSION SEAT
WITHOUT ELECTRONIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
	4603376	Seat-Non Suspension (Vinyl)	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	1598504	Kit-Seat Belt (Black)	1
10	1636120	Kit-Red Seat Belt	1
11	302400	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
24	19901	Roll Pin	1

FULL SUSPENSION SEAT (FIGURE 1-12) MANUAL HYDRAULIC NON SWIVEL — SHEET 1 OF 2



BP120827

**FULL SUSPENSION SEAT
MANUAL HYDRAULIC NON SWIVEL – SHEET 1 OF 2**

ITEM	PART NO.	DESCRIPTION	QTY
	4603382	Seat-Full Suspension (Vinyl) (Non-Swivel)	1
1	b 1703903	Kit-Cushion (Seat and Back, Vinyl)	1
2	b 1703901	Kit-Cushion (Back Cushion, Vinyl)	1
2	.....	Back Cushion	1
2	.....	Screw	2
3	b 1703902	Kit-Seat Cushion (Vinyl)	1
3	.....	Seat Cushion	1
3	.....	Spring	2
3	.....	Cotter Pin	2
4	b 1703892	Kit-Weight Adjuster	1
4	.....	Knob	1
4	.....	Bushing	1
4	.....	Washer	1
4	.....	Pin	1
5	b 1703893	Kit-Service (Front Panel) (Non Swivel)	1
5	.....	Front Panel	1
5	.....	Socket Head Capscrew	2
5	.....	Roll Pin	1
6	b 1703904	Kit-Seat Rail	1
6	.....	Locking Rail	1
6	.....	Slave Rail	1
6	.....	Bolt	4
6	.....	Nut	4
7	b 4013095	Wire Harness	1
8	4009620	Armrest (Left-Hand Side)	1
8	4612911	Armrest (Left-Hand Side) (Alternate Part)	1
9	18735	Screw	2
10	1512536	Washer	2
11	221353	Locknut	2
12	1581852	Washer	6
13	221536	Capscrew	2
14	4004776	Cover Plate	1
15	19901	Roll Pin	1
16	1598504	Kit-Seat Belt (Black)	1
16	1636120	Kit-Red Seat Belt	1
17	2099951	Armrest (Right-Hand Side)	1
18	4007318	Spacer	2
19	169874	Nut	4
20	296379	Washer	2
21	18471	Capscrew	2
22	1694830	Capscrew	2
23	296357	Washer	2
24	2107969	Cover (Seat Side Electrical)	1
25	313828	Nut	4
26	1677286	Stud	4
27	18462	Capscrew	2
28	221530	Capscrew	1
	bc 4027341	Bracket (Angle Controller)	1
	c 114312	Strap Clamp	1
	b 1563208	Sensor (Operator Presence)	1

FULL SUSPENSION SEAT
MANUAL HYDRAULIC NON SWIVEL – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	bc 1470155	Information Case (Kit)	1
	1703895	Kit-Service Internal Tether-80 MM Travel	1
	1703890	Kit-Damper Service	1
	1703891	Kit-Recliner (Back Seat Adjustment)	1
	a 4036586	Kit Non Swivel Set	1

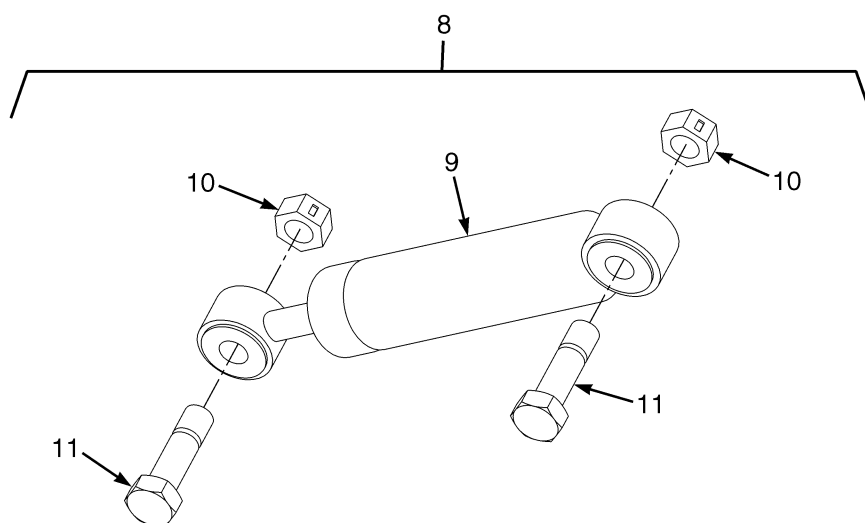
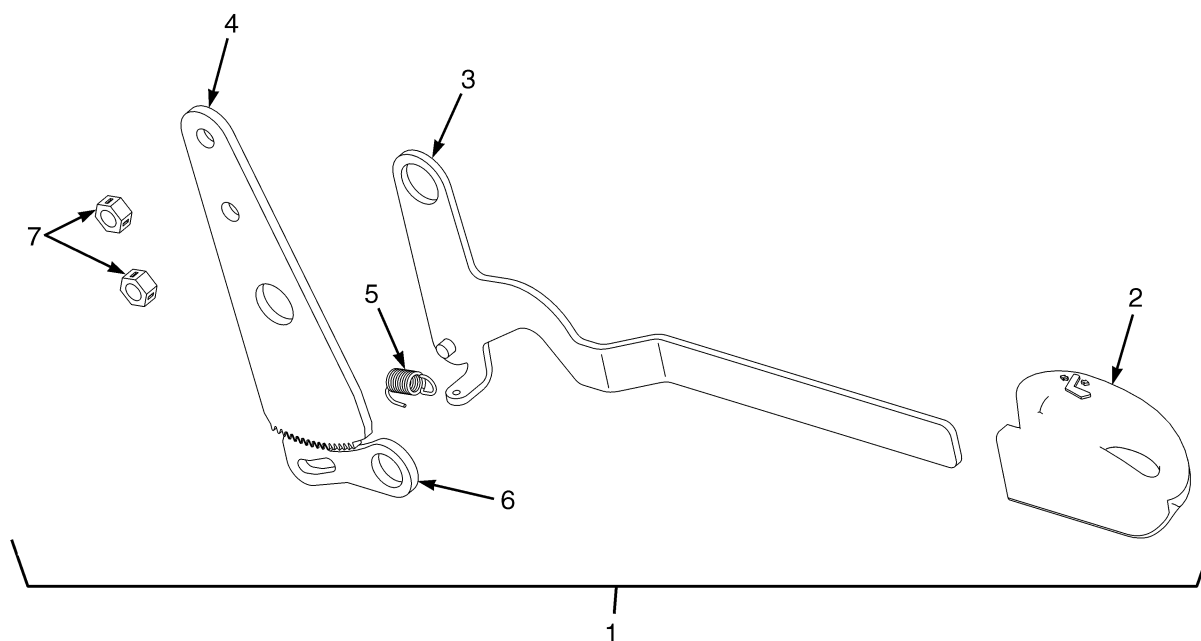
FOOTNOTES:

- a** Also included Tether and 1703891 Kit-Recliner on Sheet 2 **c** Not Illustrated
- b** Included with Seat

NOTES

[illegible]

FULL SUSPENSION SEAT (FIGURE 1-13) SHEET 2 OF 2



BP120646

FULL SUSPENSION SEAT
SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	a 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	b 1703890	Kit-Damper Service	1
9	1584632	Damper	1
10	1367150	Nut	2
11	1584638	Bolt	2

FOOTNOTES:

- a** Also included Tether and 1703891 Kit-Recliner on Sheet 2 **b** Included with Seat

[illegible]

2

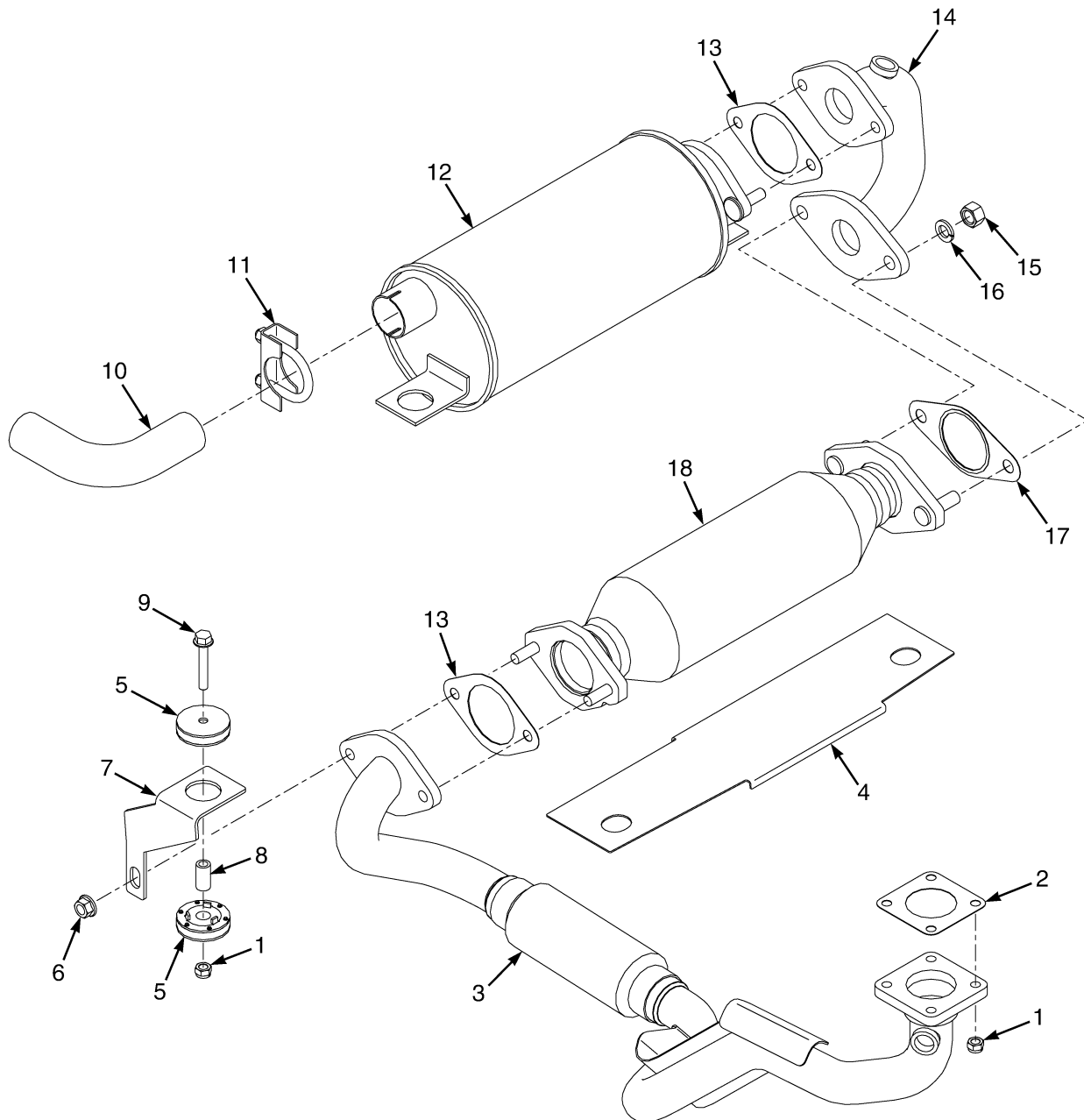
ENGINE ASSEMBLY - MAZDA

SECTION 2

ENGINE ASSEMBLY - MAZDA

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MAZDA 2.0L, LPG - 2010 EMISSION COMPLIANT ENGINES	2-18

EXHAUST SYSTEM WITH CATALYTIC CONVERTER (FIGURE 2-1) MAZDA 2.0L, LPG

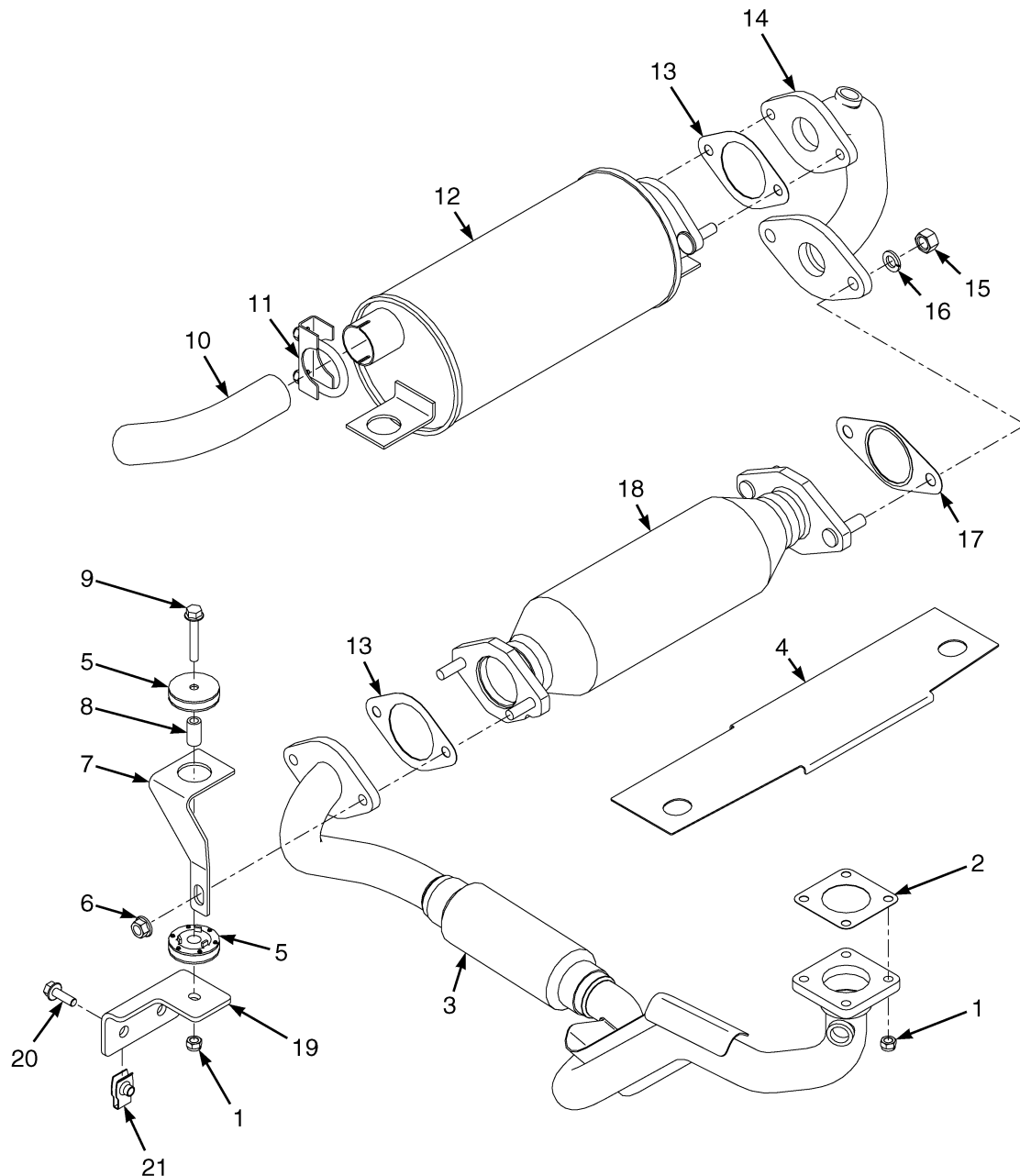


BP110059

**EXHAUST SYSTEM WITH CATALYTIC CONVERTER
MAZDA 2.0L, LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	1582222	Locknut	6
2	1338308	Gasket	1
3	1687603	Exhaust Pipe	1
4	1585595	Exhaust Shield	1
5	1709996	Isolator	4
6	1460477	Nut	4
7	1532523	Bracket	1
8	1708371	Spacer	2
9	1510115	Capscrew	2
10	1589312	Exhaust Pipe	1
11	63117	Clamp	1
12	2089894	Muffler (Welded) (Optional)	1
12	2089895	Muffler (Crimped)	1
13	1677490	Gasket	2
14	1636409	Exhaust Pipe	1
15	1469405	Nut	2
16	292683	Lockwasher	2
17	1677491	Gasket	1
18	4005681	Catalytic Converter	1

EXHAUST SYSTEM WITH CATALYTIC CONVERTER (FIGURE 2-2) MAZDA 2.0L, LPG — LATIN AMERICAN SERIES

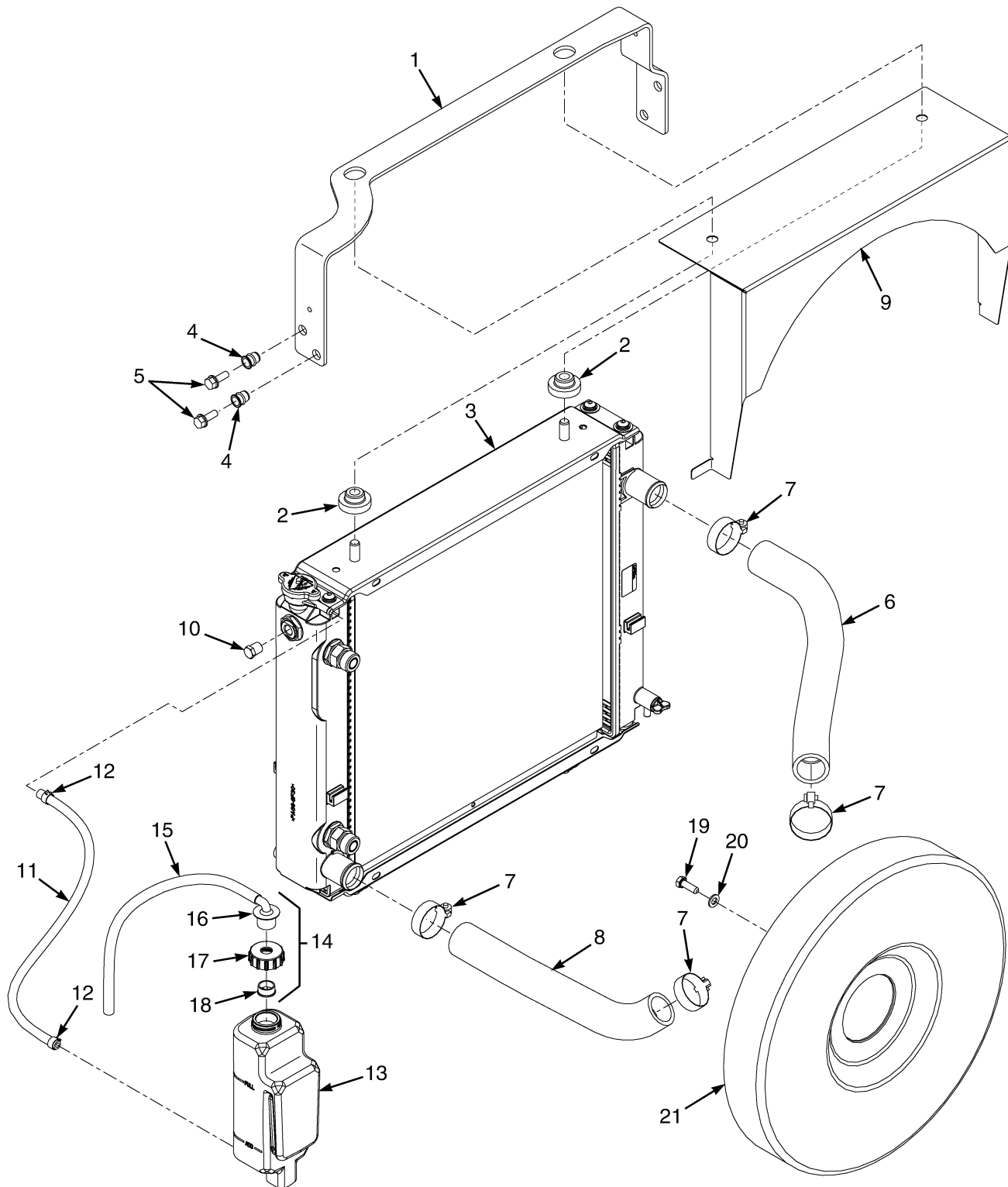


BP110065

EXHAUST SYSTEM WITH CATALYTIC CONVERTER
MAZDA 2.0L, LPG – LATIN AMERICAN SERIES

ITEM	PART NO.	DESCRIPTION	QTY
1	1582222	Locknut	6
2	1338308	Gasket	1
3	1687603	Exhaust Pipe	1
4	1585595	Exhaust Shield	1
5	1709996	Isolator	4
6	1460477	Nut	4
7	4016653	Bracket	1
8	1708371	Spacer	2
9	1510115	Capscrew	2
10	1589312	Exhaust Pipe	1
11	63117	Clamp	1
12	2089894	Muffler (Welded) (Optional)	1
12	2089895	Muffler (Crimped)	1
13	1677490	Gasket	2
14	1636409	Exhaust Pipe	1
15	1469405	Nut	2
16	292683	Lockwasher	2
17	1677491	Gasket	1
18	4005681	Catalytic Converter	1
19	4016654	Bracket (LH)	1
19	4016655	Bracket (RH)	1
20	1510113	Capscrew	4
21	1393879	Nut	4

COOLING SYSTEM (FIGURE 2-3)

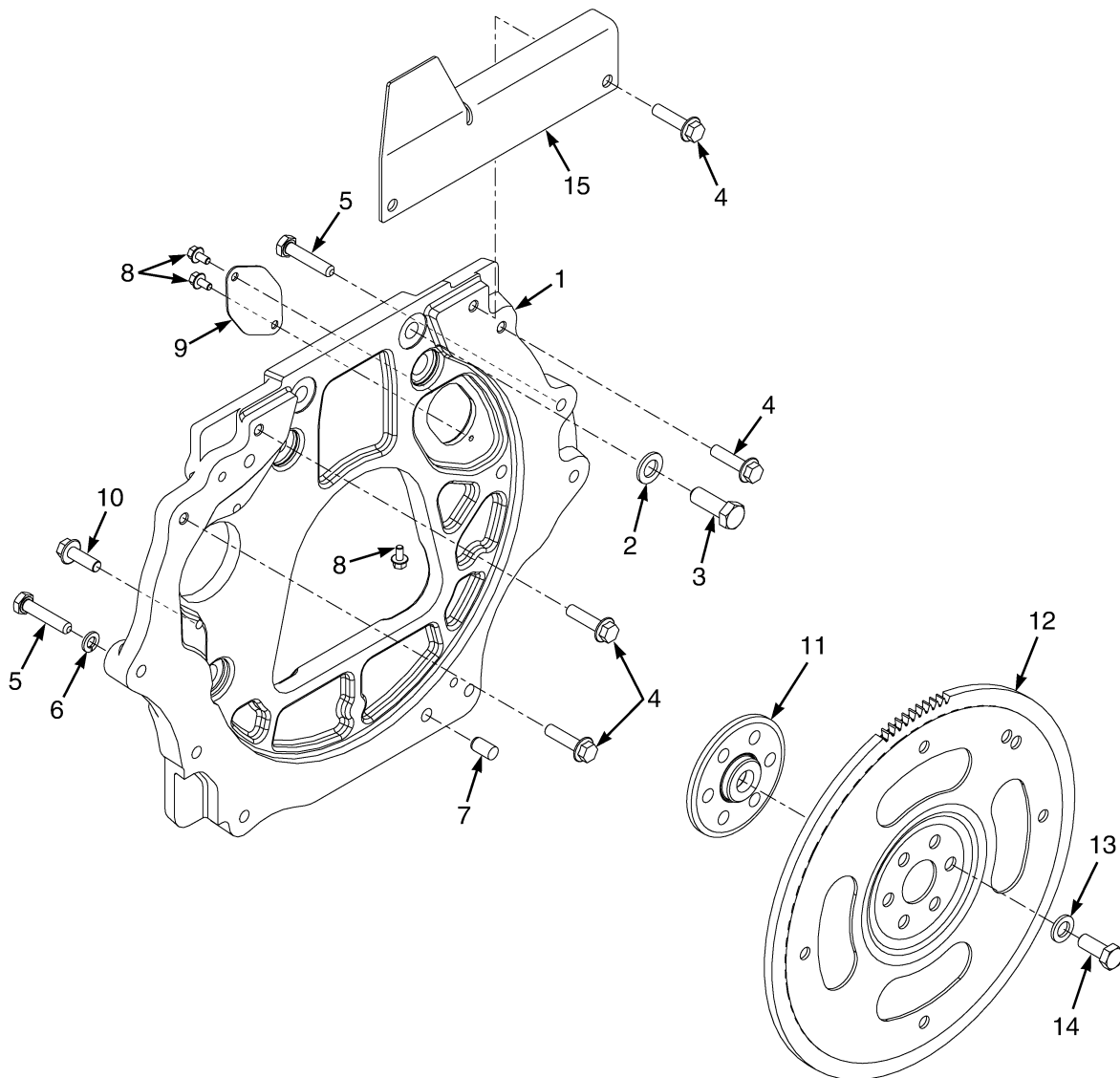


BP060073

COOLING SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	4003831	Bracket	1
2	1529787	Isolator	4
3	2060012	Radiator	1
3	1352140	Radiator Cap	1
3	1528495	Drain Plug	1
4	1530243	Insert	4
5	1583611	Capscrew	4
6	4605247	Hose	1
7	369804	Clamp	4
8	2059211	Radiator Hose	1
9	4009618	Shroud	1
10	14385	Fitting	1
10	246108	Sealant	1
11	1329240	Hose	1
12	369815	Clamp	2
13	1633307	Reservoir	1
14	345455	Outlet Assembly	1
15	1663877	Hose	1
16	345453	Outlet (Reservoir)	1
17	345454	Cap	1
18	336550	Bushing	1
19	293614	Capscrew	4
20	296418	Washer	4
21	2101978	Fan	1

FLYWHEEL AND HOUSING ASSEMBLY (FIGURE 2-4) MAZDA 2.0L

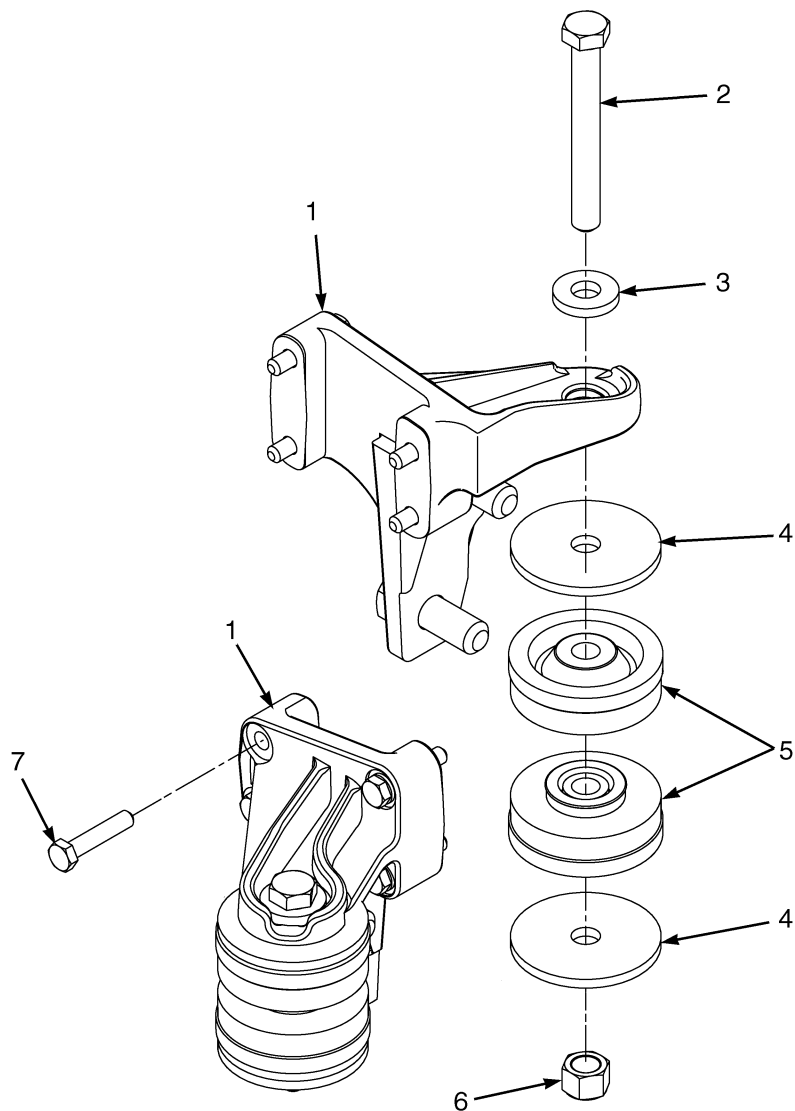


BP090423

**FLYWHEEL AND HOUSING ASSEMBLY
MAZDA 2.0L**

ITEM	PART NO.	DESCRIPTION	QTY
1	1553266	Flywheel Housing	1
2	296424	Washer	6
3	2072918	Capscrew	6
4	1512403	Capscrew	4
5	292517	Capscrew	6
6	388049		
	292682	Lockwasher	6
7	303150	Dowel	2
8	1534417	Capscrew	5
9	1625999	Dust Cover	1
10	1527884	Capscrew	2
11	1506572	Hub Adapter	1
12	1605467	Flywheel (With Ring Gear)	1
12	1506607	Flywheel (With Ring Gear)	1
13	296422	Washer	6
14	1528415	Capscrew	6
15	4015807	Bracket	1

ENGINE MOUNTING (FIGURE 2-5) MAZDA 2.0L

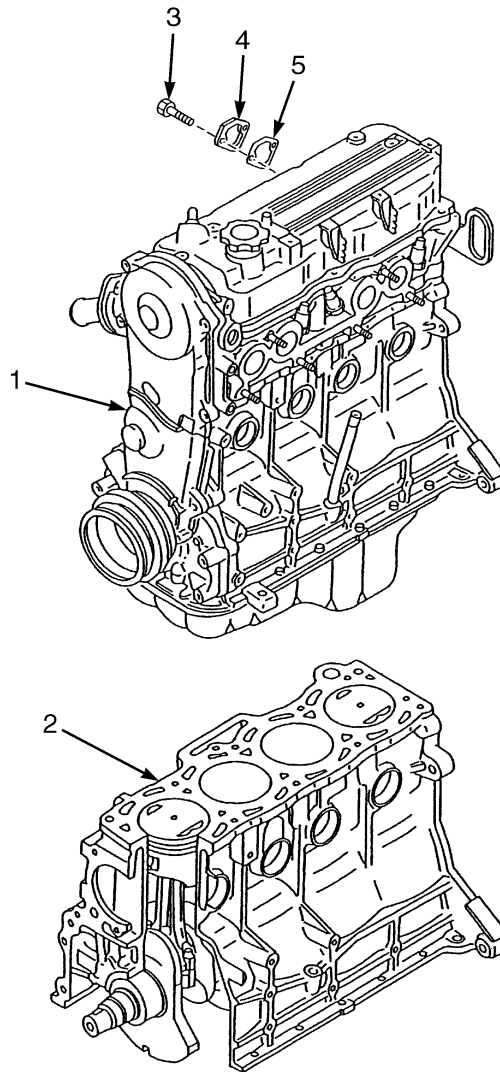


BP090163

ENGINE MOUNTING
MAZDA 2.0L

ITEM	PART NO.	DESCRIPTION	QTY
1	1557478	Mount (RH)	1
1	1557479	Mount (LH)	1
2	293698	Capscrew	2
3	1504075	Washer	2
4	1557737	Washer	4
5	2069951	Isolator	4
6	1565453	Nut (Flange)	2
7	1565150	Bolt (Flange)	8

ASSEMBLED ENGINE (FIGURE 2-6)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

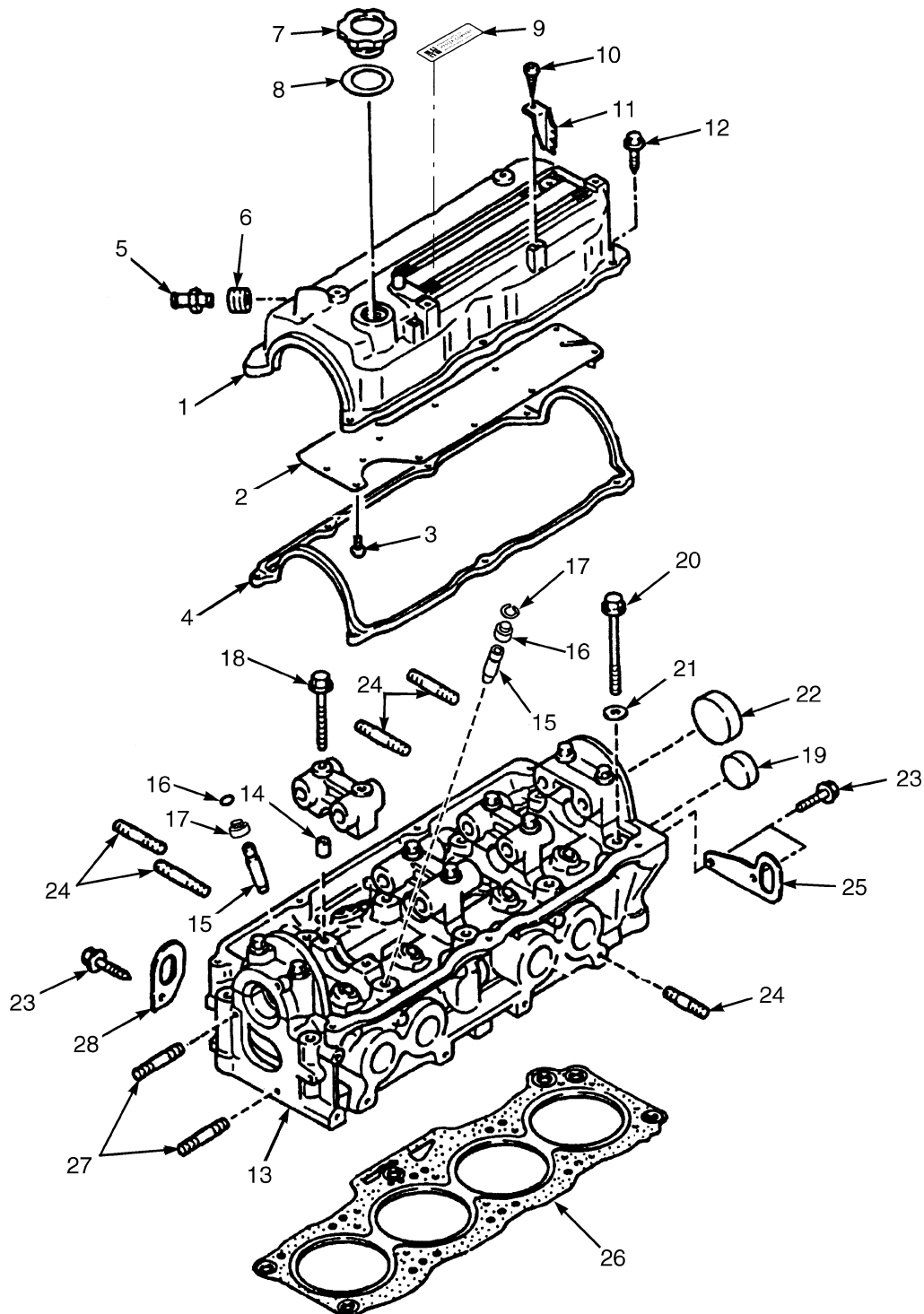


BP090371

ASSEMBLED ENGINE
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	1652301	Long Block	1
2	1572387	Short Block	1
3	1361898	Bolt	2
4	1361749	Cover	1
5	1361756	Gasket	1

CYLINDER HEAD AND COVER (FIGURE 2-7) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES

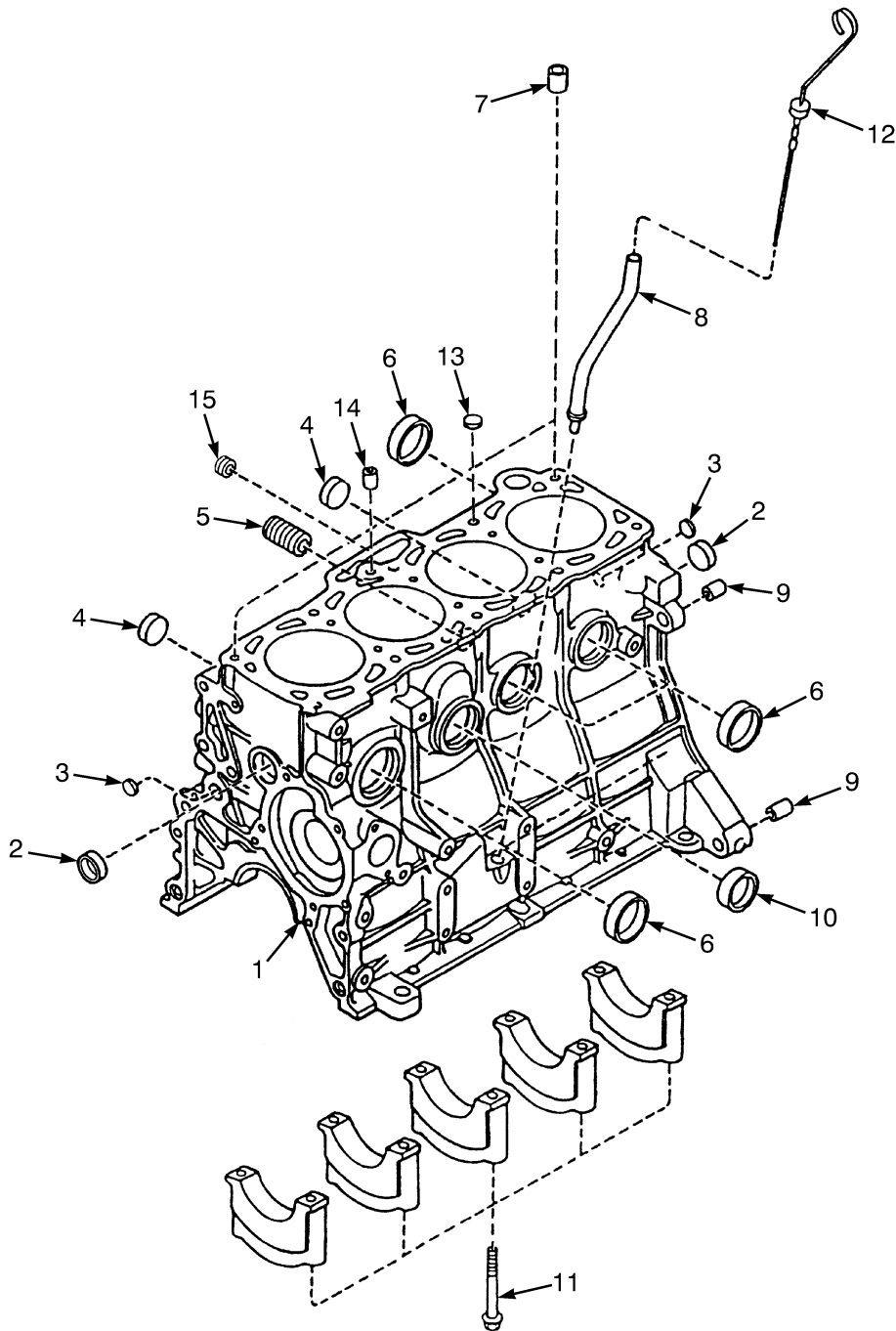


CYLINDER HEAD AND COVER
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block	1
1	1360883	Engine Cover	1
2	1360884	Plate	1
3	2022655	Screw	10
4	1360886	Gasket	1
5	1553692	PCV Valve	1
6	1360892	Seal	1
7	1360887	Cap	1
8	1360888	Gasket	1
9	.....	Label	1
10	2078941	Screw	2
11	1360885	Bracket	2
12	1362001	Bolt	7
13	1360878	Cylinder Head	1
14	1362002	Pin	10
15	1360895	Guide	8
16	1360879	Clip	1
17	b 1361718	Seal (Inlet)	4
17	a 1361719	Seal (Exhaust)	4
18	1361894	Bolt	10
19	1362003	Plug	1
20	1360880	Bolt	10
21	1360881	Washer	10
22	1360882	Cap	8
23	326608	Bolt	3
24	1361897	Stud	20
25	2314973	Hanger	1
26	2045321	Gasket (Cylinder Head)	1
27	1361899	Stud	2
28	1360890	Bracket	1

FOOTNOTES:**a** Black**b** Red/Brown

CYLINDER BLOCK (FIGURE 2-8) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES

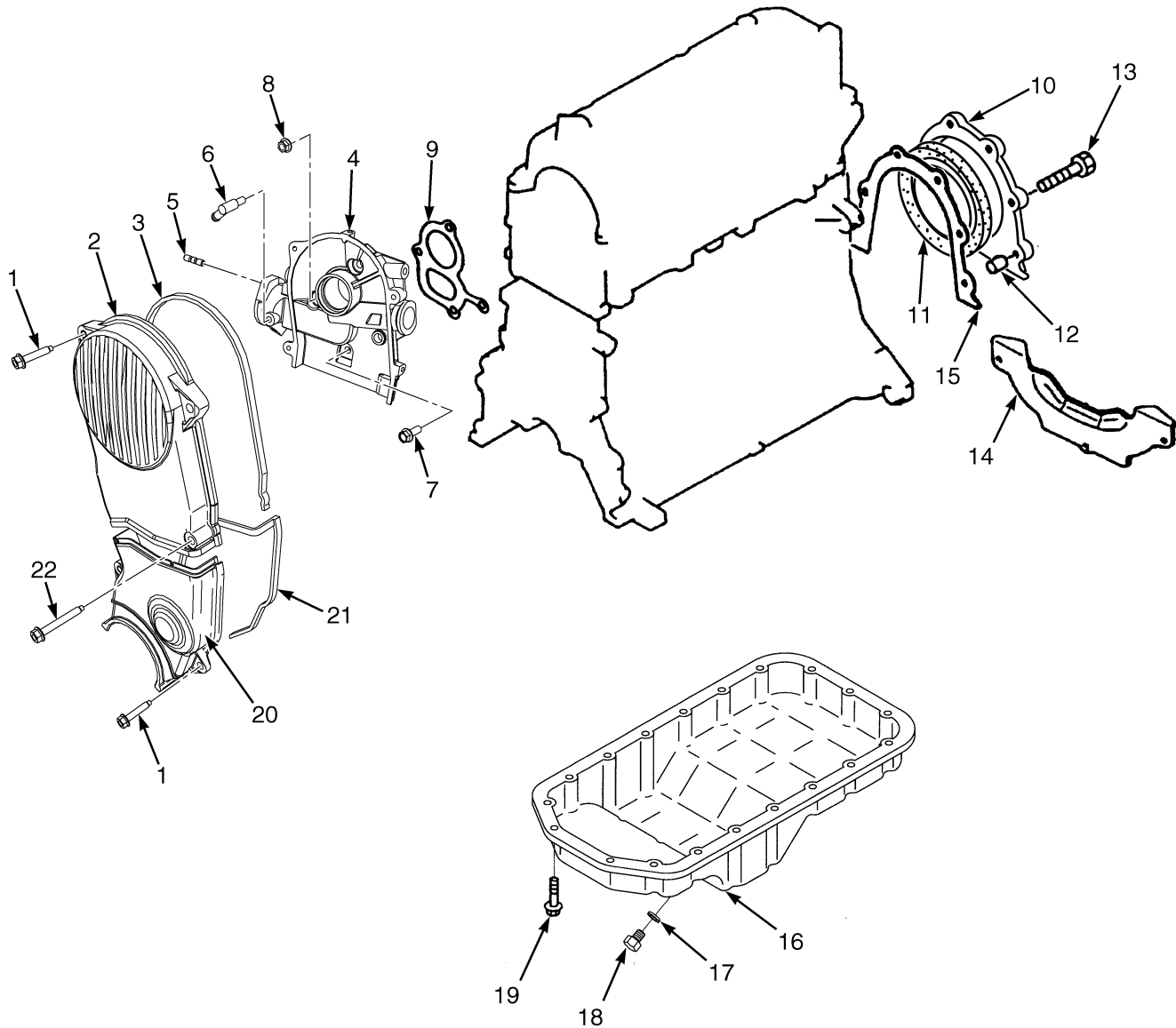


BP090328

CYLINDER BLOCK
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block	1
	1572387	Short Block	1
1	1553710	Cylinder Block	1
2	1362009	Plug	2
3	1361675	Plug	2
4	1362005	Plug	2
5	1360898	Joint Fitting	1
6	1362003	Plug	4
7	1360896	Pin	2
8	1360899	Tube Assy	1
9	1362008	Pin	2
10	1362007	Plug	2
11	1361676	Bolt	10
12	1361677	Dipstick	1
13	2028927	Plug	1
14	2029081	Plug	2
15	1553708	Plug	2

TIMING GEAR COVER AND OIL PAN (FIGURE 2-9) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

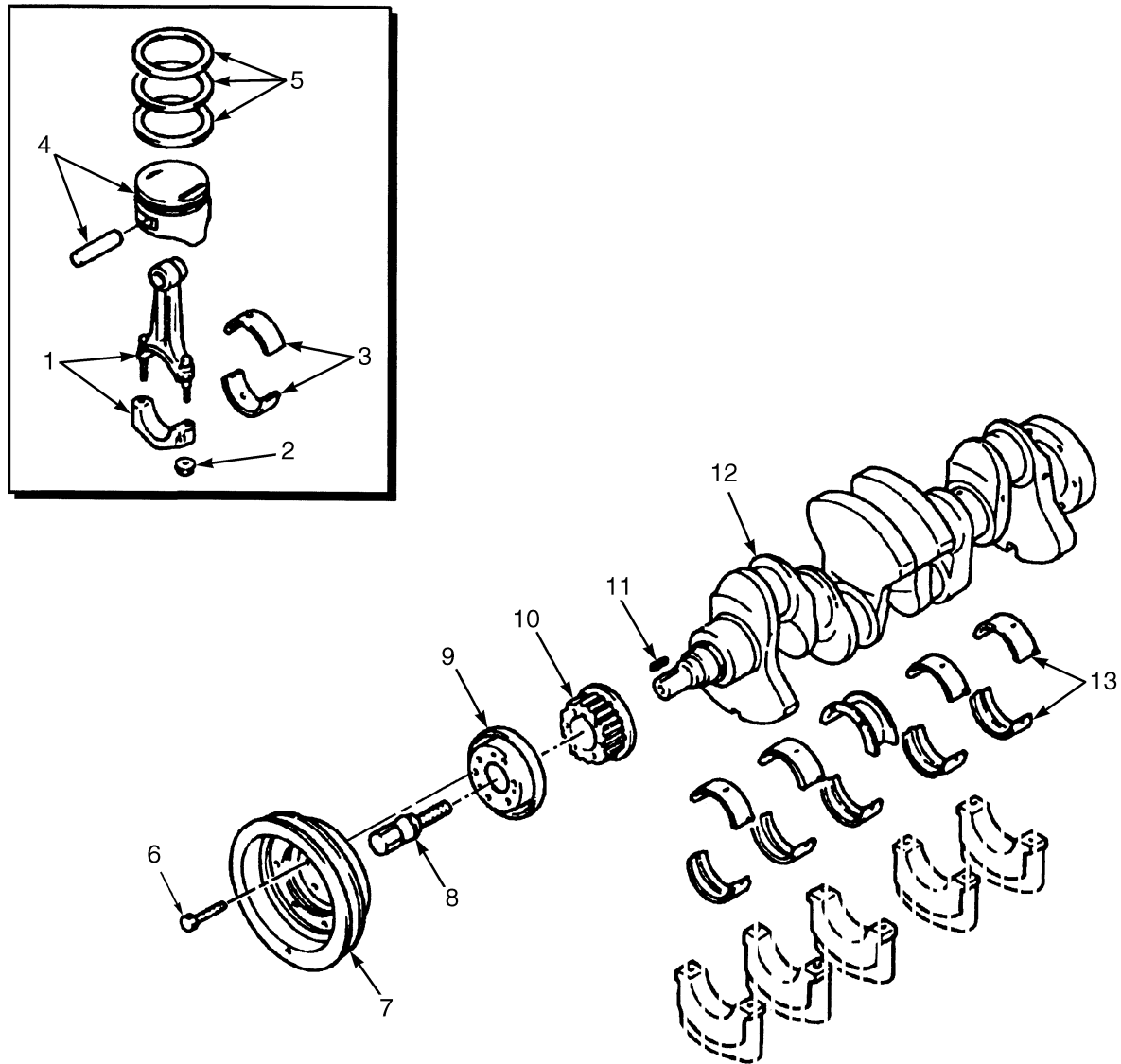


BP090438

TIMING GEAR COVER AND OIL PAN
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block (2.0L LPG)	1
1	1362001	Bolt	5
2	1553716	Cover (Upper Timing Belt) (2.0L)	1
3	1553717	Gasket (2.0L)	1
4	1553715	Housing (2.0L)	1
4	1361688	Oil Seal	1
5	1362012	Stud	2
6	1361692	Connector	1
7	1361875	Screw	2
8	326504	Nut	2
9	1361679	Gasket	1
10	1361689	Cover	1
11	1361691	Oil Seal (Rear)	1
12	1362010	Pin	2
13	1362011	Bolt	6
14	1371652	Cover (Lower)	1
15	1361690	Gasket	1
16	1361680	Oil Pan (2.0L)	1
17	1362015	Gasket	1
18	1361681	Drain Plug	1
19	1370736	Capscrew	19
20	2051128	Cover	1
21	2028853	Gasket	1
22	2029086	Bolt	1
	2045036	Kit-Gasket	1

CRANKSHAFT AND PISTONS (FIGURE 2-10) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

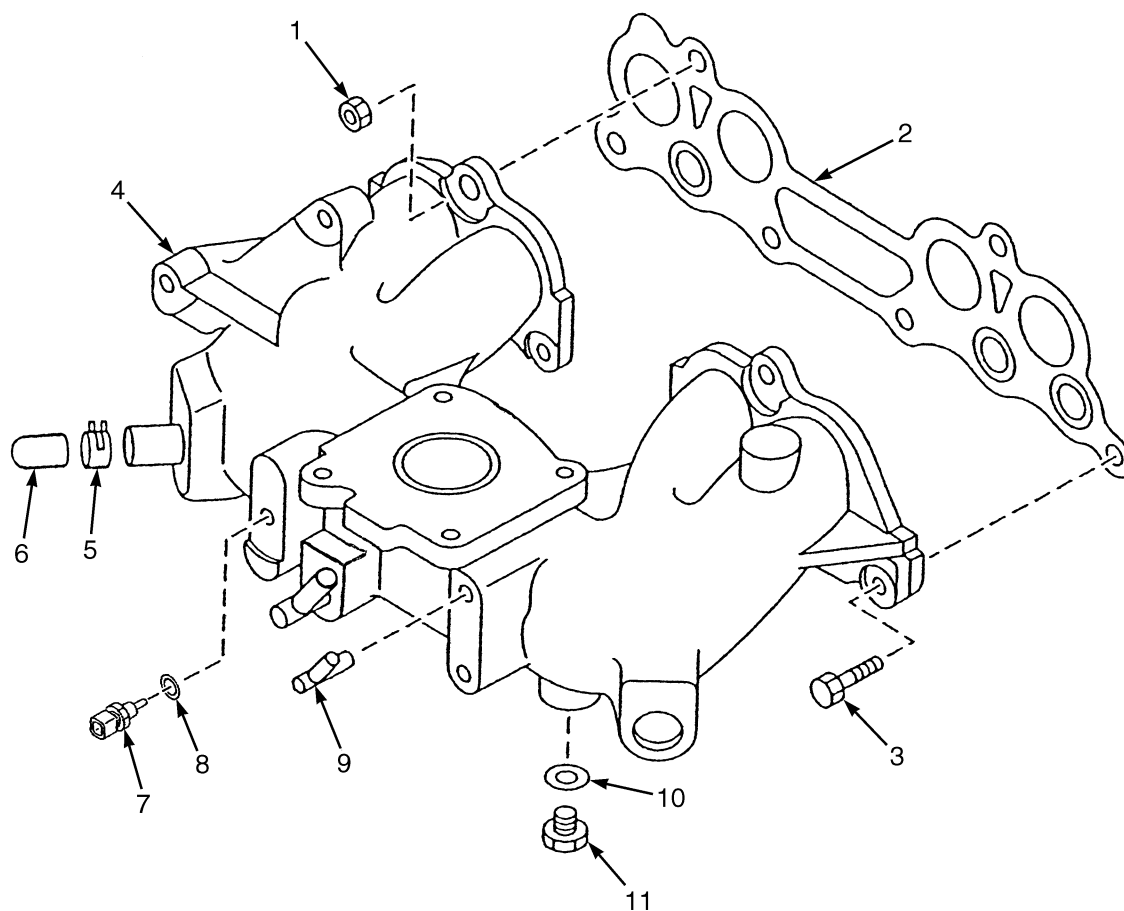


BP090439

CRANKSHAFT AND PISTONS

MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block (2.0L, LPG)	1
1	2105970	Piston Rod	4
2	1361695	Nut	2
3	1361703	Piston Rod Bearing (Standard)	1
3	1361704	Piston Rod Bearing (0.25 mm)	1
3	1361705	Piston Rod Bearing (0.50 mm)	1
3	1361706	Piston Rod Bearing (0.75 mm)	1
4	1572593	Piston and Pin (Standard)	4
4	1572597	Piston and Pin (0.25 mm)	4
4	1572595	Piston and Pin (0.50 mm)	4
5	1495473	Kit-Piston Ring (Standard)	1
5	1495475	Kit-Piston Ring (0.25 mm)	1
5	1495474	Kit-Piston Ring (0.50 mm)	1
6	1361700	Bolt	6
7	1553722	Crankshaft Pulley	1
8	2045034	Bolt	1
9	2045033	Plate	1
10	2045030	Pulley	1
11	1361697	Key	1
12	1361696	Crankshaft (2.0L)	1
13	1361710	Kit-Crankshaft Bearing (Standard)	1
13	1361713	Crankshaft Bearing (0.25 mm)	1
13	1361711	Crankshaft Bearing (0.50 mm)	1
13	1361712	Crankshaft Bearing (0.75 mm)	1

INTAKE MANIFOLD (FIGURE 2-11)
MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES

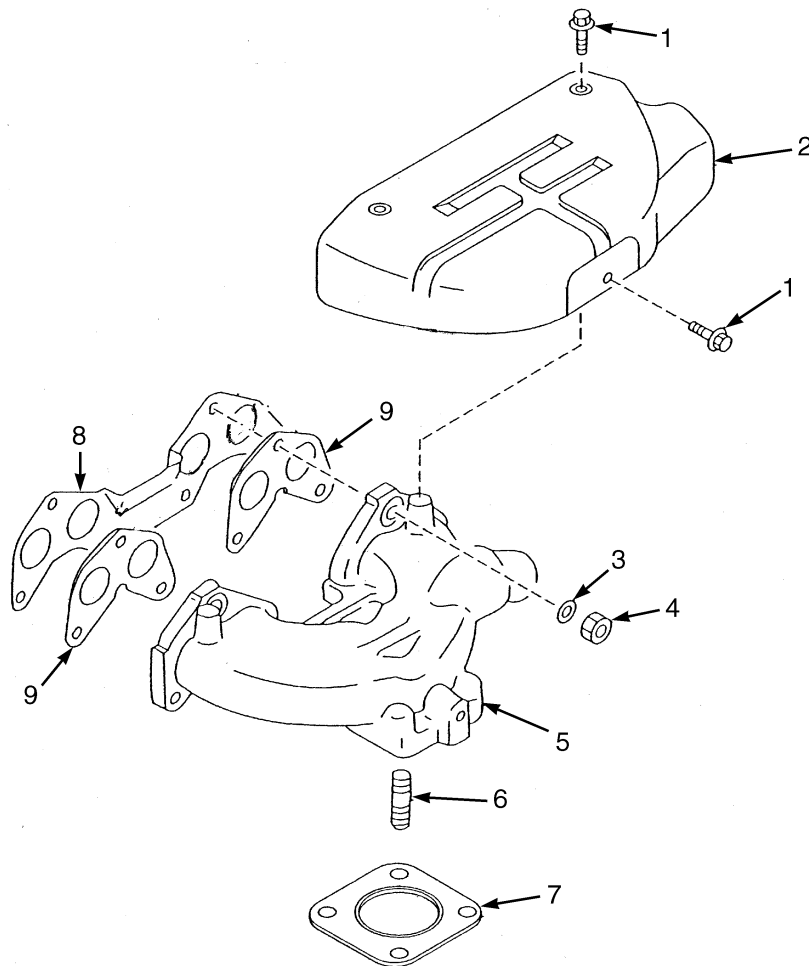
BP090332

INTAKE MANIFOLD
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	326504	Nut	4
2	1553776	Gasket	1
3	1361885	Bolt	2
4	1687035	Intake Manifold	1
5	1573568	Clamp	1
6	1574098	Cap	1
7	1539962	Sensor (Air Temperature)	1
7	1369861	Plug	1
8	1368886	Washer	1
9	1652334	Connector	1
10	1368743	Seal	1
11	1366902	Bolt	1

EXHAUST MANIFOLD (FIGURE 2-12)

MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



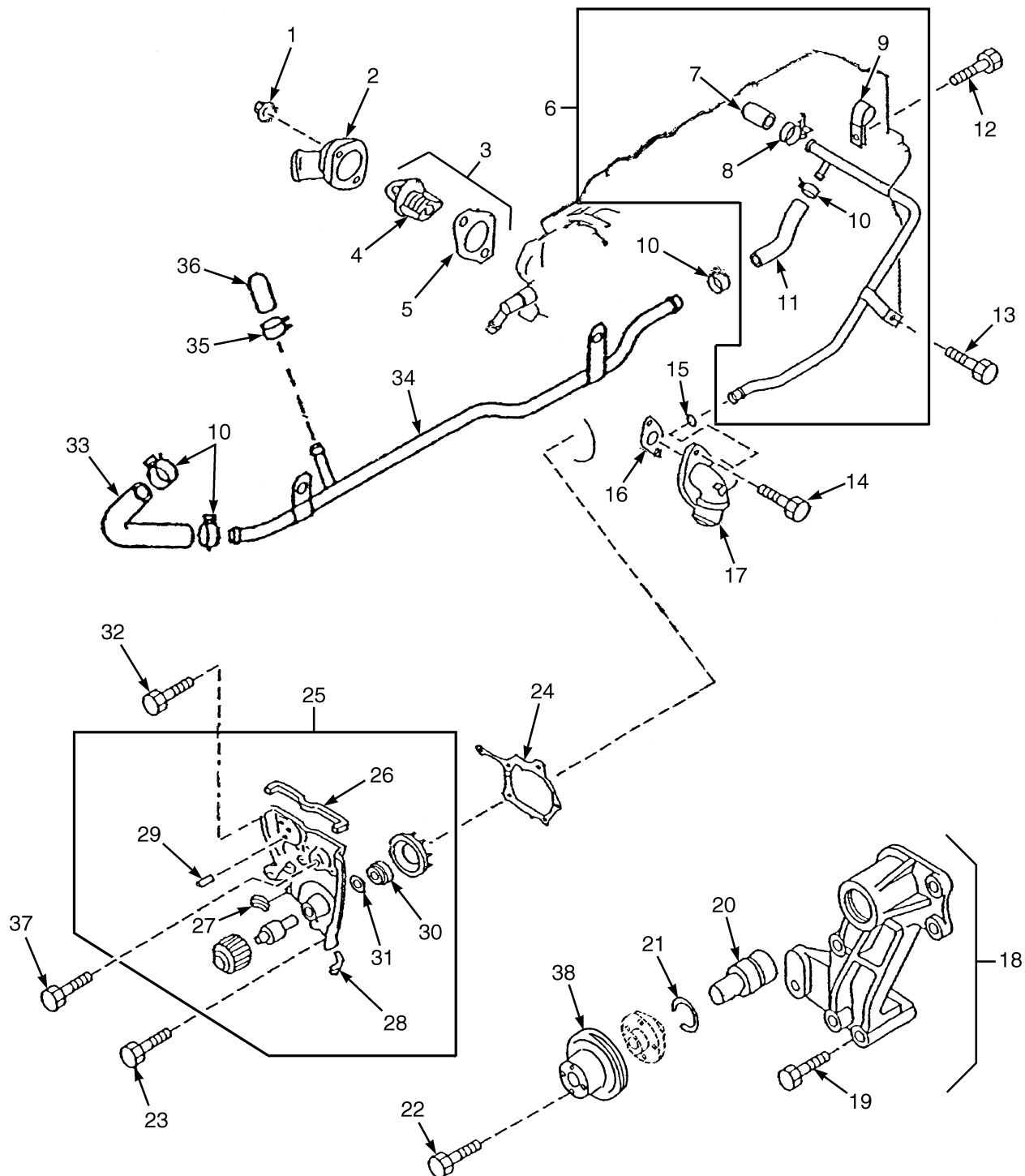
BP090330

ITEM	PART NO.	DESCRIPTION	QTY
1	1361898	Bolt	3
2	1370691	Cover	1
3	1370690	Washer	6
4	1361746	Nut	6
5	1370688	Exhaust Manifold	1
6	1361745	Stud	4
7	1338308	Gasket	2
8	1361747	Gasket	1
9	1370689	Gasket	2

NOTES

[illegible]

ENGINE COOLING SYSTEM (FIGURE 2-13) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



BP090337

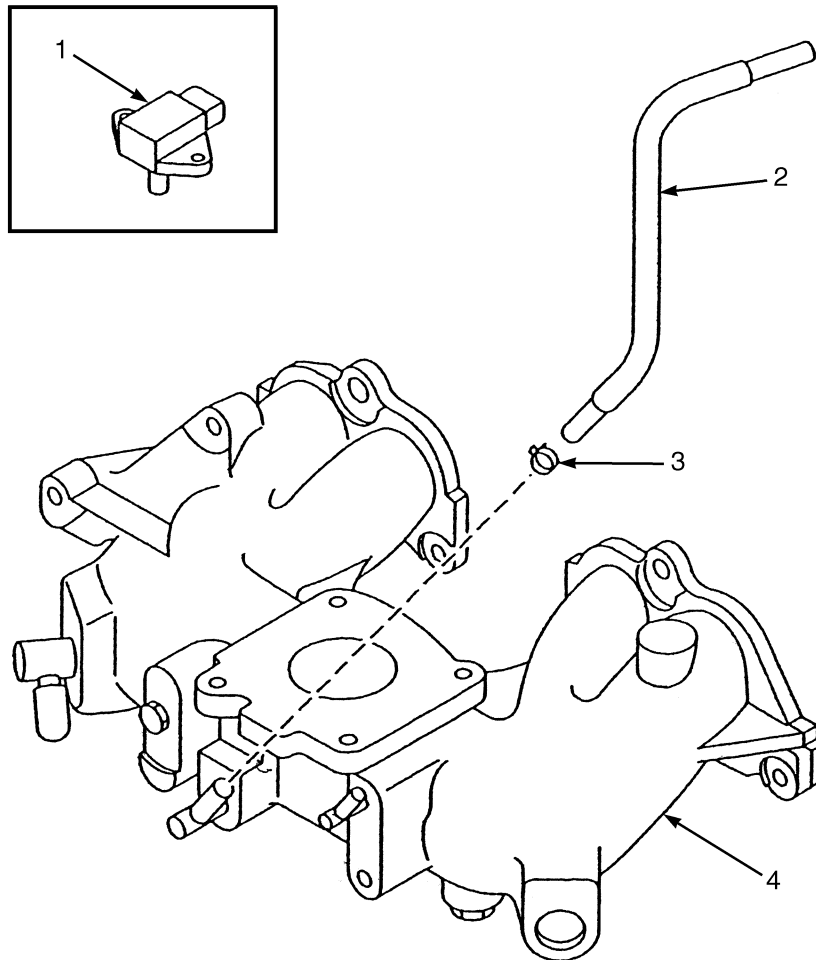
ENGINE COOLING SYSTEM

MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block	1
1	326504	Nut	2
2	1361821	Cover	1
3	1495428	Thermostat	1
4	2082929	Thermostat	1
5	1367191	Gasket	1
6	1553943	Pipe (Water)	1
7	1361836	Cap	1
8	1573568	Clamp	1
9	1361826	Clip	1
10	1361873	Clamp	4
11	2029108	Radiator Hose (Water)	1
12	1361898	Bolt	1
13	2022309	Bolt	1
14	1361875	Screw	2
15	1361827	O-Ring	1
16	2029120	Gasket (Inlet)	1
17	2029112	Adapter (Inlet)	1
18	1573176	Bracket (Fan)	1
19	2045026	Screw	3
20	2029116	Shaft Bearing (Fan)	1
21	2045025	Clip	1
22	324706	Bolt	4
23	2087756	Bolt	5
24	2028645	Gasket	1
25	2078488	Water Pump	1
26	2029107	Seal	1
27	2029105	Seal	1
28	2029106	Seal	1
29	1361880	Stud	1
30	1361814	Seal	1
31	2045319	Baffle	1
32	2087757	Bolt	1
33	1361825	Radiator Hose	1
34	1361823	Pipe (Water Bypass)	1
35	1495429	Hose Clamp	1
36	1361790	Cap	1
37	1361884	Bolt	1
38	1566772	Fan Pulley	1
	a 1375642	Fan	1

FOOTNOTES:**a** Not Illustrated

EMISSION CONTROL SYSTEM (FIGURE 2-14) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



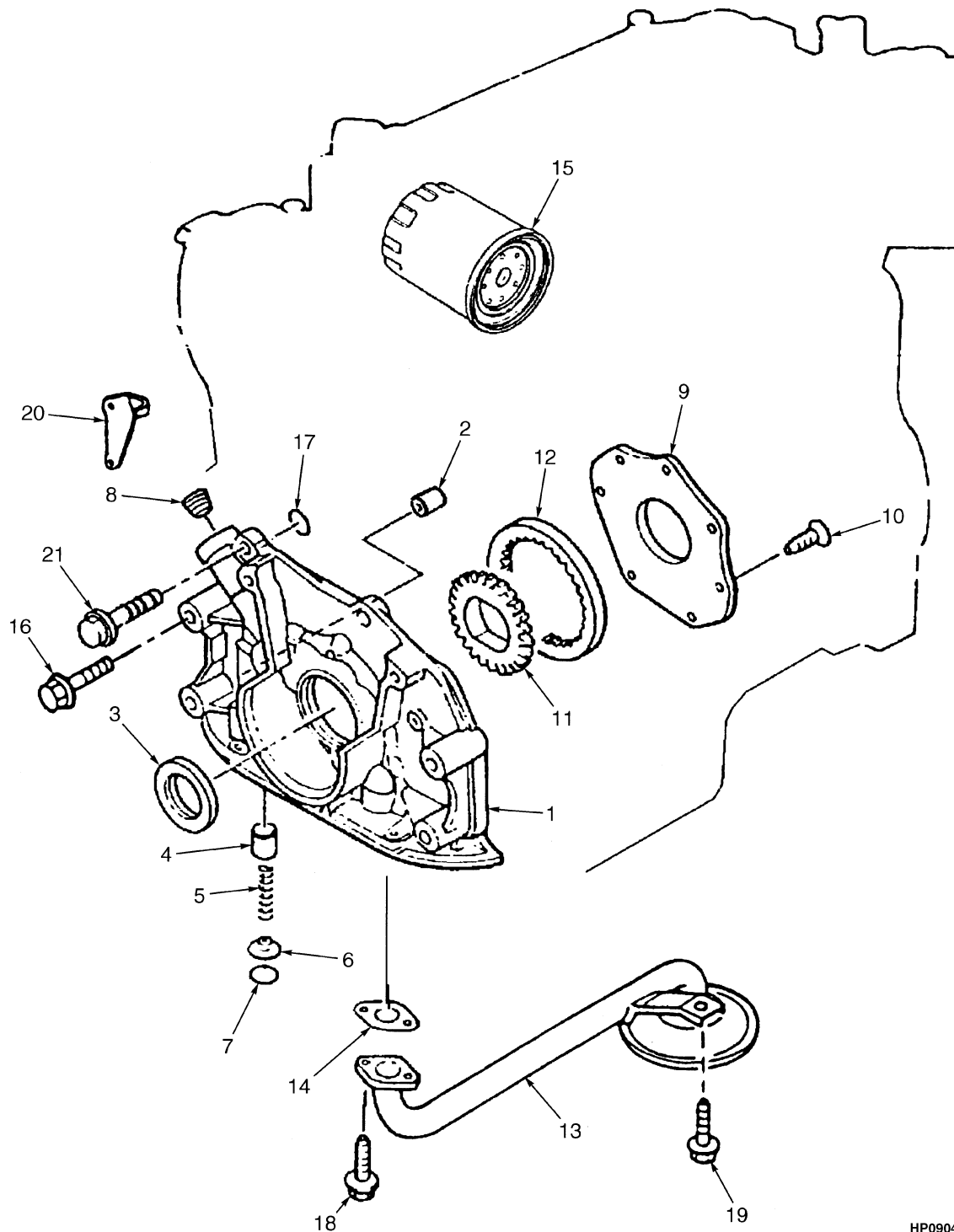
BP090334

ITEM	PART NO.	DESCRIPTION	QTY
1	1548352	Sensor (Boost, M.A.P.) (Boost)	1
2	1652417	Hose (PCV)	1
3	1361872	Clamp	1
4	1652333	Intake Manifold	1
4	1687035	Intake Manifold	1

NOTES

[illegible]

OIL PUMP AND FILTER (FIGURE 2-15) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



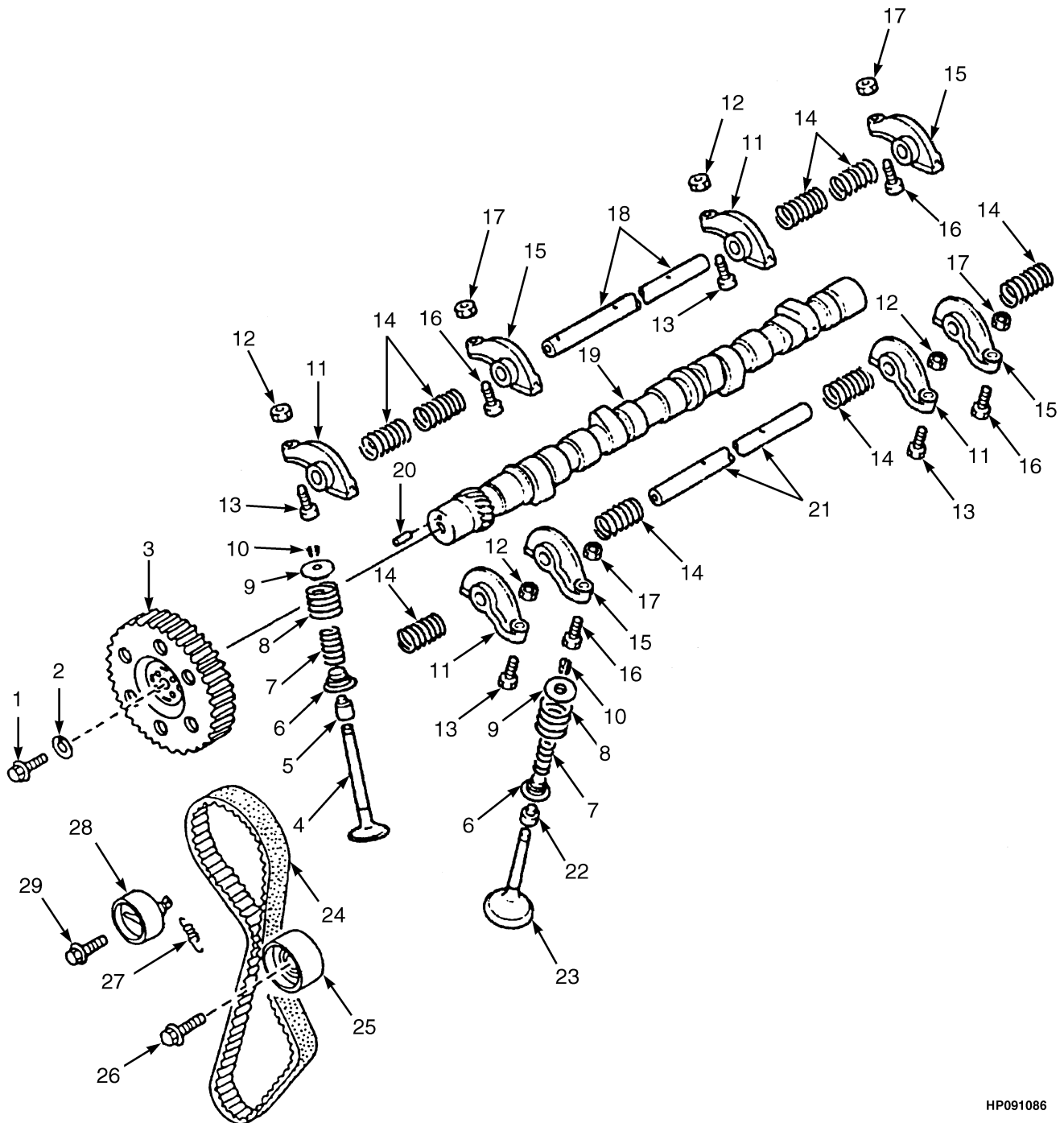
HP090491

OIL PUMP AND FILTER
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652301	Long Block	1
1	1455676	Engine Oil Pump	1
2	1361798	Pin (Timing Indicator)	2
3	1361688	Oil Seal	1
4	1455674	Plunger	1
5	326748	Spring	1
6	326749	Spring Seat	1
7	1361879	Snap Ring	1
8	1495426	Plug	1
9	2029100	Cover	1
10	1455677	Screw	7
11	2029101	Gear (Inner)	1
12	2029102	Gear (Outer)	1
13	1361806	Strainer	1
14	1361807	Gasket	1
15	333642	Oil Filter	1
16	2029103	Bolt	2
17	1361801	O-Ring	1
18	1361878	Screw	2
19	1361868	Screw	1
20	1495427	Pin (Top Indicator)	1
21	1361875	Screw	4
	2087753	Gasket (Liquid)	AR

CAMSHAFT AND VALVES (FIGURE 2-16)

MAZDA 2.0L, GASOLINE AND LPG — 2010 EMISSION COMPLIANT ENGINES



HP091086

CAMSHAFT AND VALVES

MAZDA 2.0L, GASOLINE AND LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
	1652303	Long Block (2.0L, Gasoline)	1
	1652301	Long Block (2.0L, LPG)	1
1	1361736	Bolt	1
2	1361737	Washer	1
3	2029095	Pulley (Camshaft)	1
4	1361720	Inlet Valve (Intake)	4
5	1361718	Seal	4
6	1361724	Valve Seat	8
7	1361723	Spring (Intake Valve)	8
8	1361722	Spring (Exhaust Valve)	8
9	1361721	Valve Seat	8
10	326612	Keeper	16
11	1361726	Rocker Arm	4
12	1361728	Nut	1
13	1361727	Screw	1
14	1361731	Spring	8
15	1361729	Rocker Arm	4
16	1361727	Screw	1
17	1361728	Nut	1
18	1361730	Shaft	1
19	1361734	Camshaft	1
20	1361717	Pin	1
21	1361732	Shaft	1
22	1361719	Seal	4
23	1361725	Exhaust Valve	4
24	1553762	Timing Belt (2.0L)	1
25	2029098	Idler Pulley	1
26	1361884	Bolt	1
27	1553763	Spring (2.0L)	1
28	2029097	Belt Tensioner	1
29	1362016	Bolt	1

[illegible]

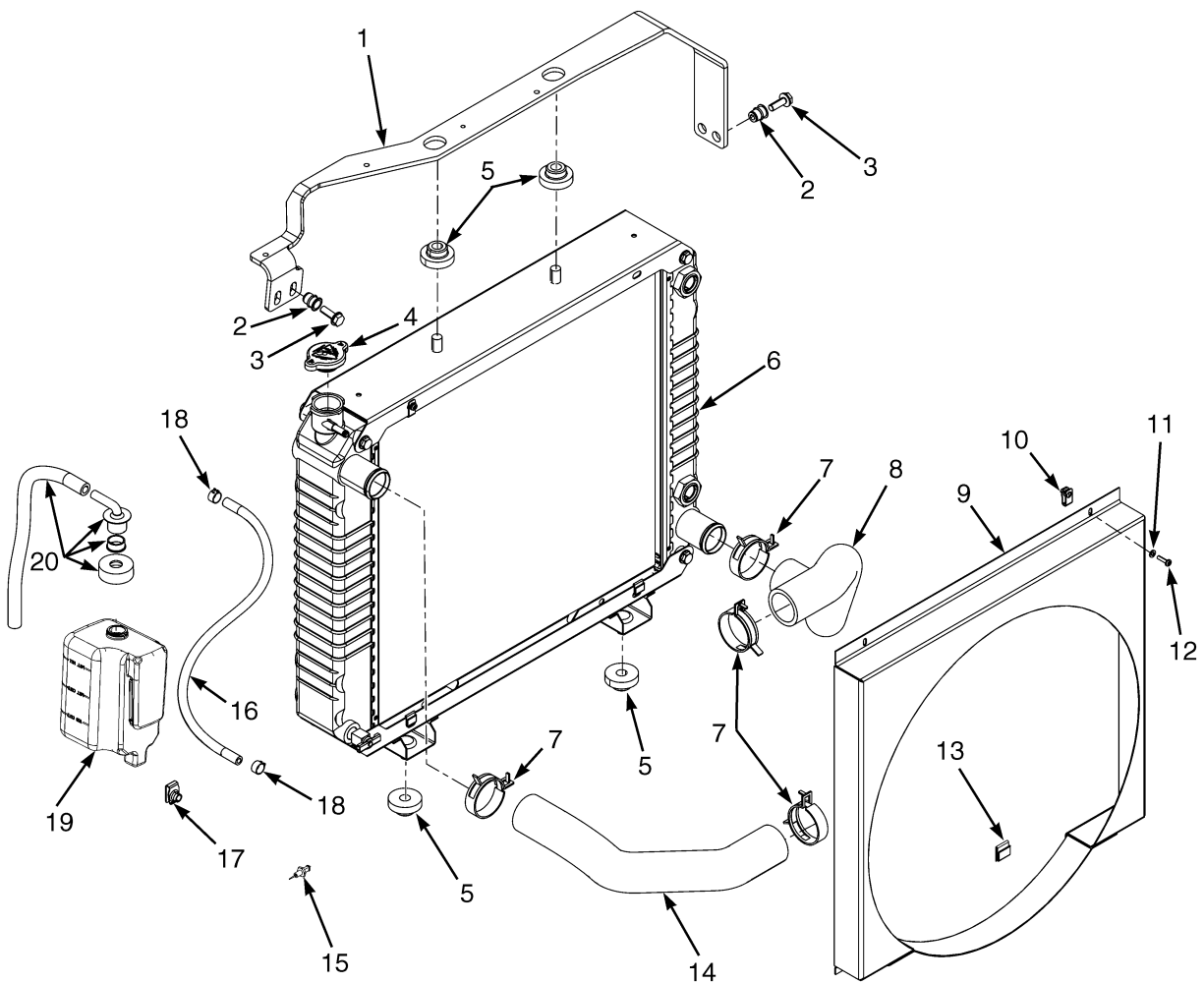
3

ENGINE ASSEMBLY - YANMAR

SECTION 3 ENGINE ASSEMBLY - YANMAR

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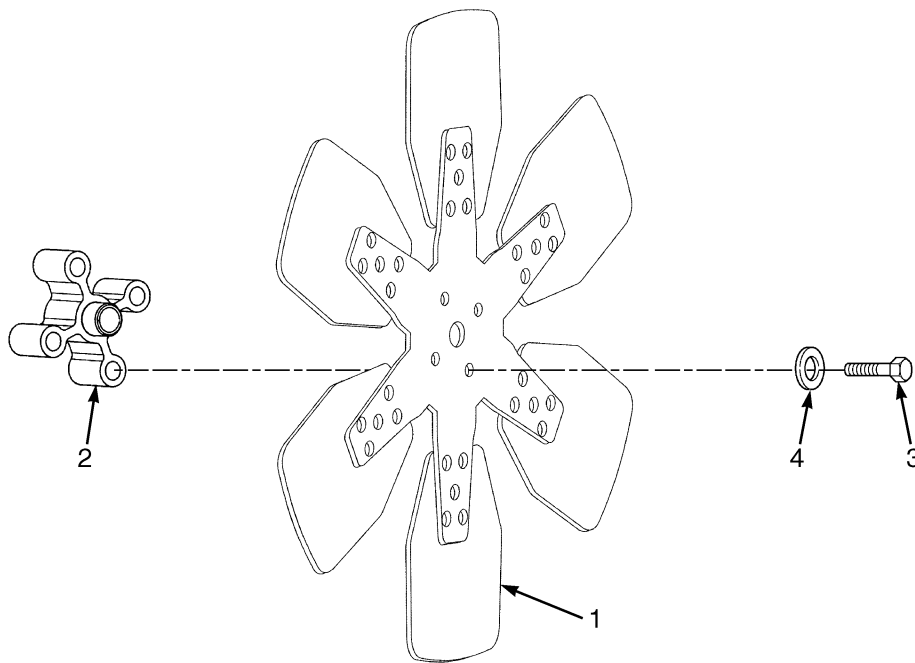
COOLING SYSTEM (FIGURE 3-1) YANMAR 2.6L — DIESEL



BP090357

**COOLING SYSTEM
YANMAR 2.6L – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	4014493	Bracket (Top)	1
2	1530243	Insert	4
3	1510113	Capscrew	4
4	1352140	Radiator Cap	1
5	1529787	Isolator	4
6	2068441	Radiator (Square Wave)	1
6	1569079	Drain Valve (w/Thread Wrap) (Not Illustrated)	1
7	369804	Clamp	4
8	2068099	Radiator Hose (Lower)	1
9	4035580	Shroud Assembly	1
10	1535257	Nut	2
11	320154	Washer	2
12	302023	Screw	2
13	1329271	Clip	2
14	2068098	Radiator Hose (Upper)	1
15	1531404	Sensor (Low Coolant Level) (Optional)	1
15	14385	Fitting (Optional)	1
15	246108	Sealant	AR
16	1567674	Hose	1
17	1480237	Nut	1
18	369815	Clamp	2
19	1633307	Reservoir	1
20	345455	Outlet Assembly	1
20	345453	Outlet (Reservoir)	1
20	345454	Cap	1
20	336550	Bushing	1
20	1663877	Hose	1

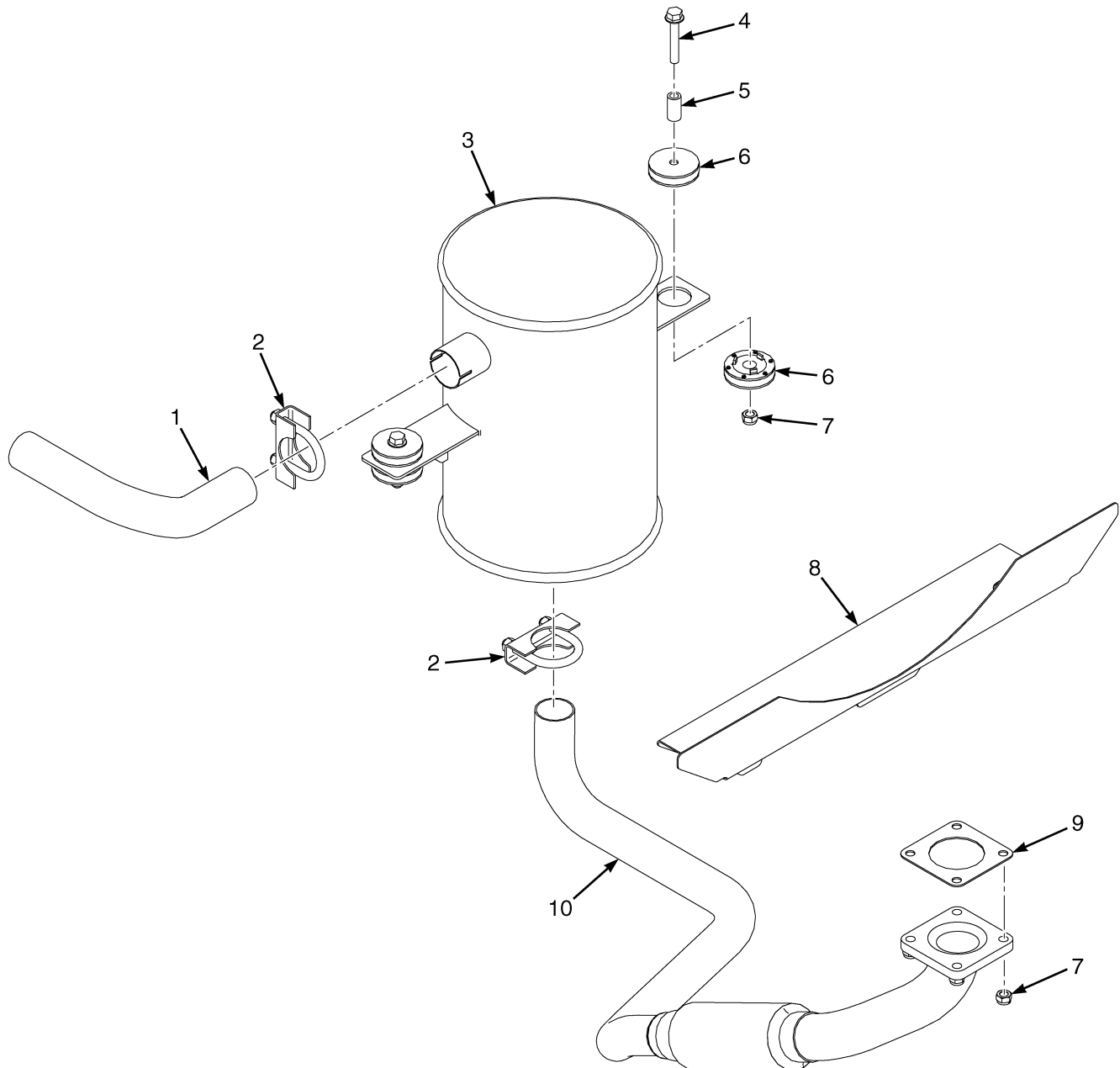
FAN ASSEMBLY (FIGURE 3-2)
YANMAR 2.6L DIESEL

HP091244

ITEM	PART NO.	DESCRIPTION	QTY
1	2085570	Fan (Pusher) (16 in.)	1
2	1595440	Spacer	1
3	293621	Capscrew	4
4	296418	Washer	4

[illegible]

EXHAUST SYSTEM (FIGURE 3-3) YANMAR DIESEL

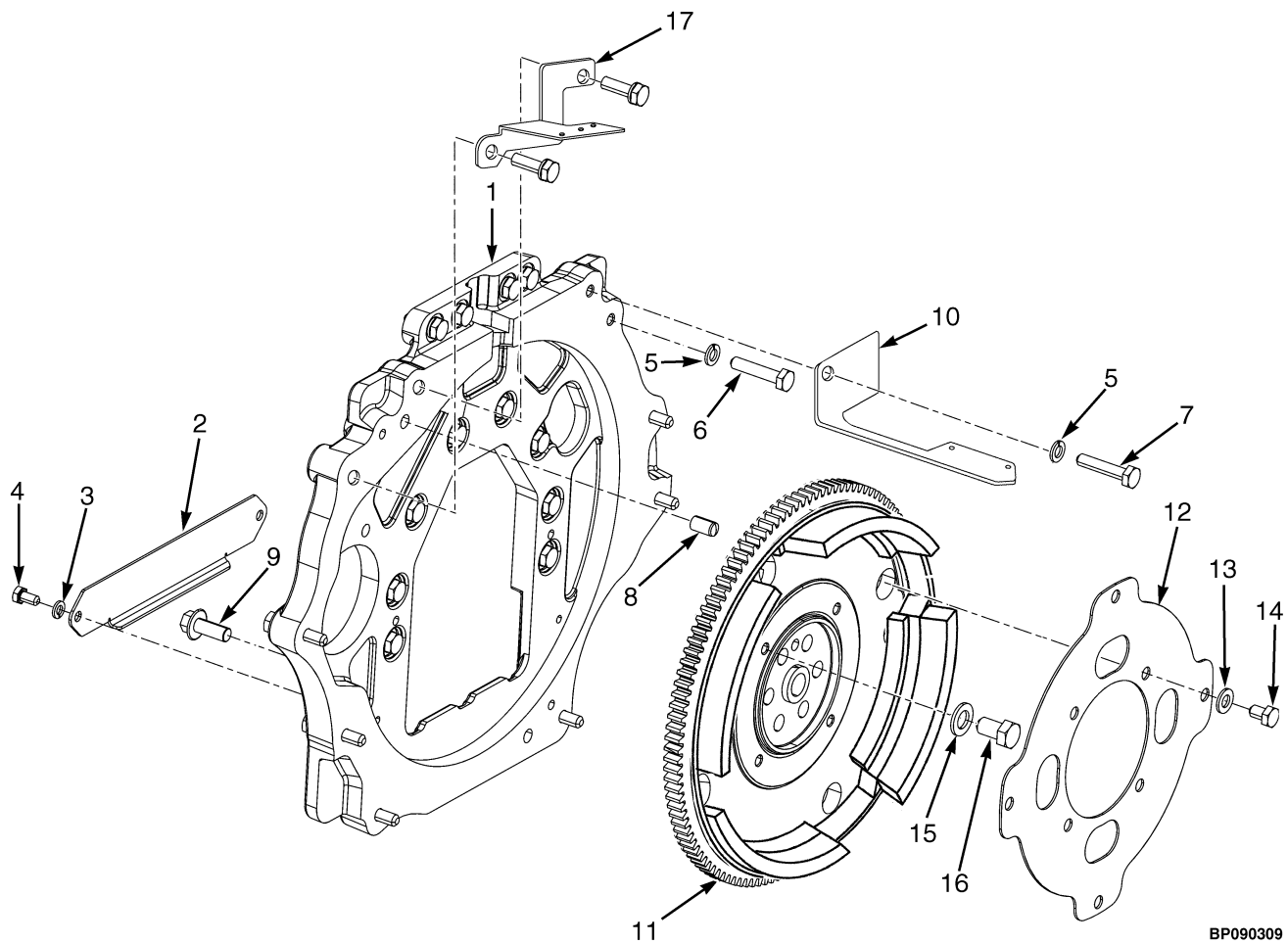


BP110071

**EXHAUST SYSTEM
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1586967	Exhaust Pipe	1
2	63117	Clamp	2
3	2075554	Muffler (Exhaust)	1
4	1510115	Capscrew	2
5	1708371	Spacer	2
6	1709996	Isolator	4
7	1582222	Locknut	6
8	1565917	Exhaust Shield	1
9	1532363	Gasket	1
10	4014269	Exhaust Pipe	1

FLYWHEEL AND HOUSING (FIGURE 3-4) YANMAR 2.6L DIESEL

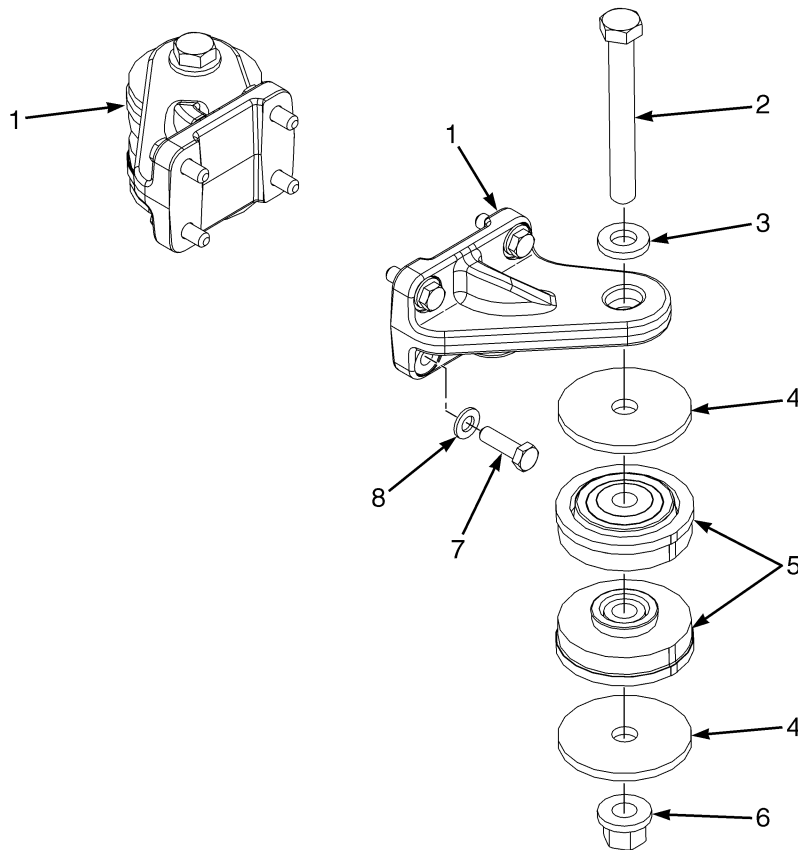


BP090309

**FLYWHEEL AND HOUSING
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1553265	Housing	1
2	1522363	Cover	1
3	292681	Lockwasher	2
4	287851	Capscrew	2
5	388049		
	292682	Lockwasher	22
6	136985	Capscrew	12
7	292517	Capscrew	10
8	303150	Dowel	2
9	1528889	Capscrew	2
10	1653569	Bracket	1
11	1707341	Flywheel	1
12	1531806	Flex Plate	1
13	296420	Washer	4
14	293626	Capscrew	4
15	296424	Washer	6
16	1550747	Capscrew	6
17	1623093	Bracket	1
	1625999	Dust Cover (Not Illustrated)	1

ENGINE MOUNTING (FIGURE 3-5) YANMAR 2.6



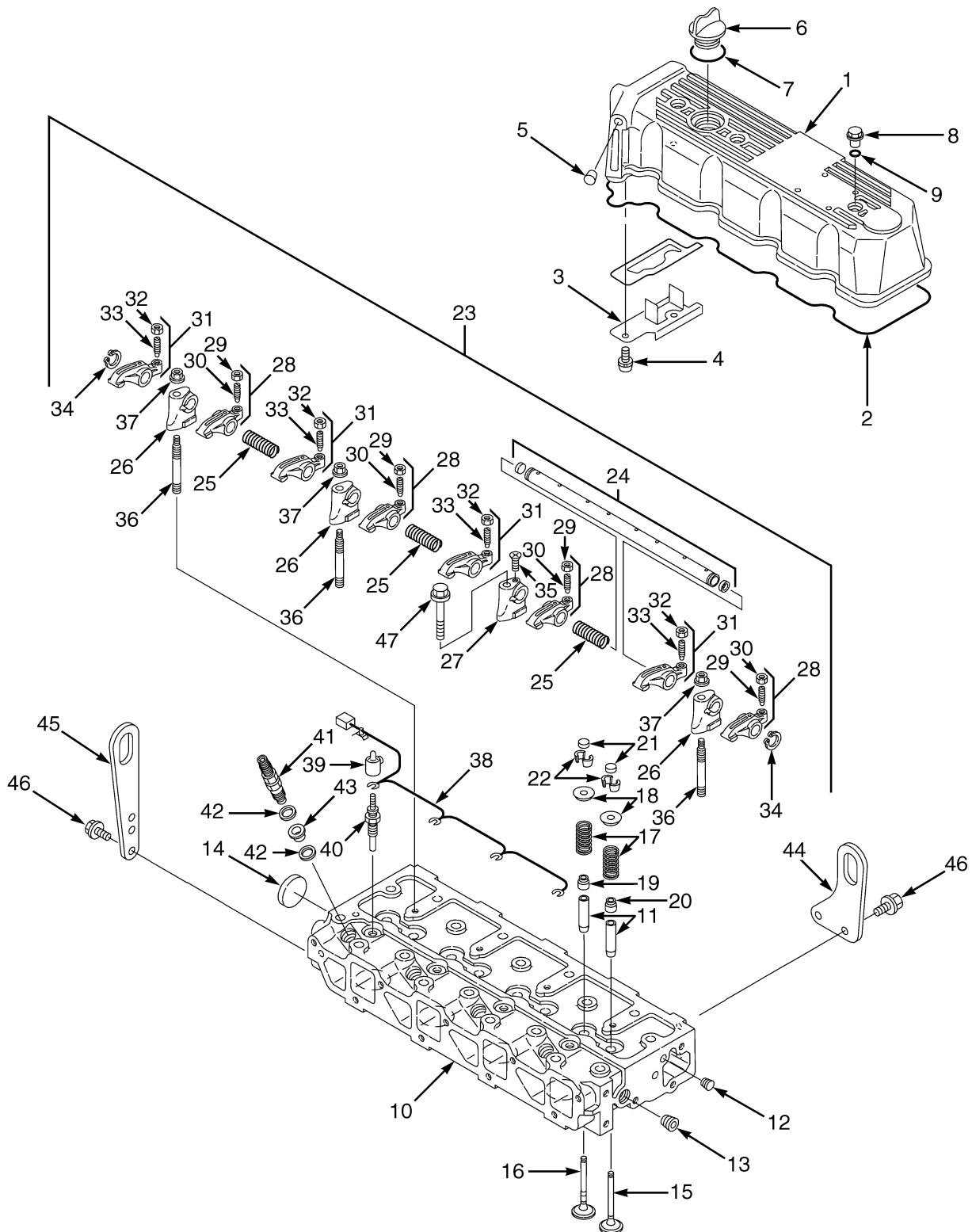
BP090419

ITEM	PART NO.	DESCRIPTION	QTY
1	1557767	Mount	2
2	293698	Capscrew	2
3	1504075	Washer	2
4	1557737	Washer	4
5	2069951	Isolator	4
6	1565453	Nut (Flange)	2
7	293630	Capscrew	8
8	296420	Washer	8

NOTES

[illegible]

CYLINDER HEAD (FIGURE 3-6) YANMAR 2.6L DIESEL



BP090184

**CYLINDER HEAD
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1536725	Engine Assy-Diesel	1
	1688253	Engine Assy-Diesel	1
1	1599545	Engine Cover	1
2	1599546	Gasket	1
3	1599547	Plate	1
4	1599548	Screw	2
5	1599549	Plug	1
6	1599463	Cap (Oil Fill)	1
7	1599464	O-Ring	1
8	1599544	Plug	3
9	1599550	O-Ring	3
10	1599488	Cylinder Head Assembly	1
10	1599524	Cylinder Head	1
11	1599525	Guide	8
12	1599526	Plug	1
13	1599441	Plug	1
14	1599528	Plug	1
15	1599489	Inlet Valve (Intake)	4
16	1599516	Exhaust Valve	4
17	1599517	Spring	8
18	1599518	Retainer	8
19	1599519	Seal (Exhaust Valve)	4
20	1599520	Seal (Intake Valve)	4
21	1599521	Cap	8
22	1599529	Retainer	8
23	1599530	Support Assembly (Rocker Arm)	1
24	1599531	Shaft	1
25	1599532	Spring	3
26	1599533	Support	3
27	1599534	Support	1
28	1599535	Kit-Rocker Arm	4
29	1599536	Screw	1
30	1599537	Nut	1
31	1599538	Kit-Rocker Arm	4
32	1599536	Screw	1
33	1599537	Nut	1
34	1599539	Retaining Ring	2
35	1599540	Screw	1
36	1599541	Stud	3
37	1599542	Nut	3
38	1599553	Connector (Glow Plug)	1
39	1599557	Cover	4
40	1599552	Glow Plug	4
41	1599522	Protector	4
42	1599523	Gasket	8
43	1599818	Injector (☞Figure 4-14).....	4
44	1599487	Lifting Eye (Rear)	1
45	1599486	Lifting Eye (Front)	1
46	1599470	Bolt	4
47	1599555	Bolt	1

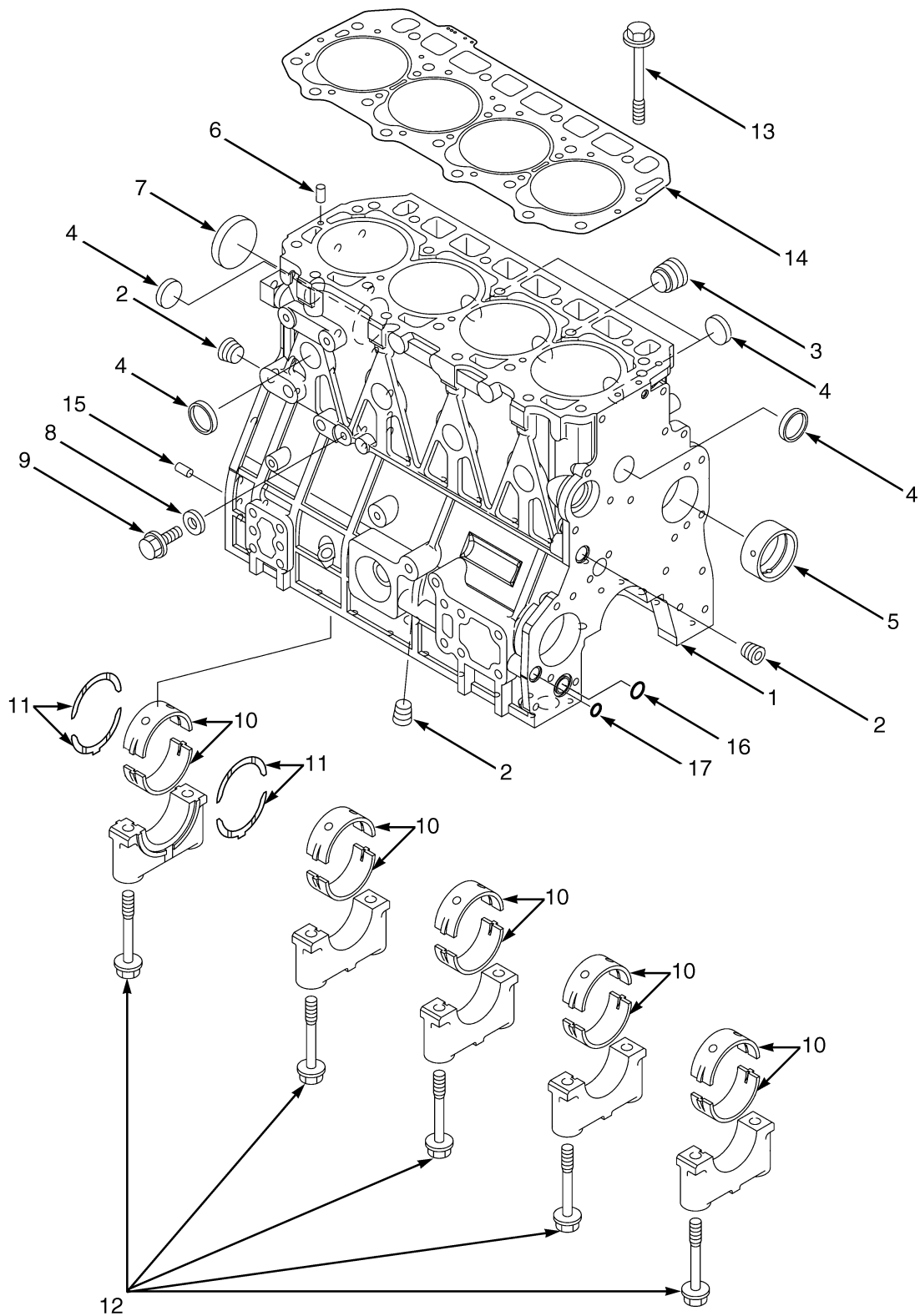
**CYLINDER HEAD
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1599898	Kit-Gasket (2.6L Engine Complete)	1

NOTES

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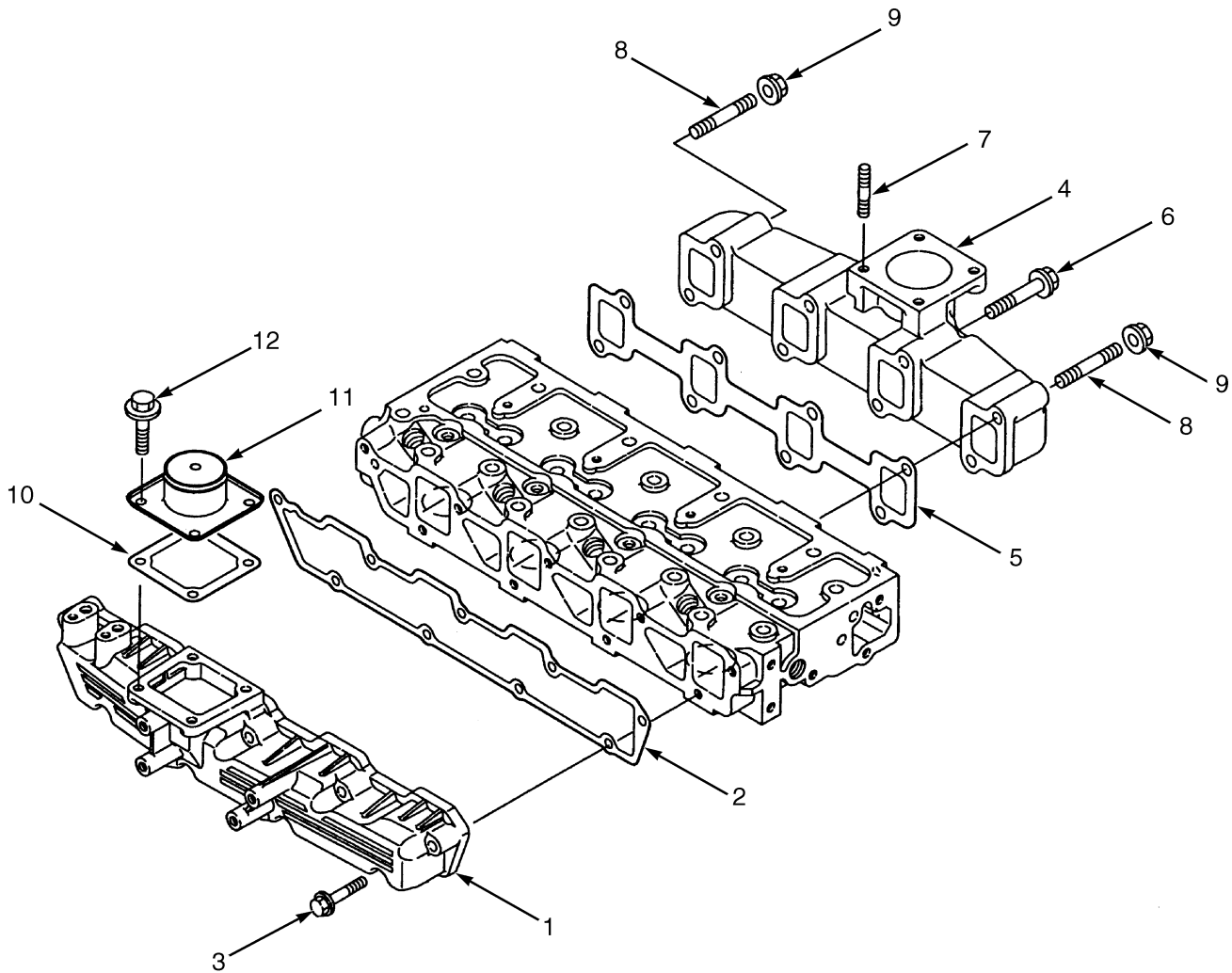
CYLINDER BLOCK (FIGURE 3-7) YANMAR 2.6L DIESEL



BP090181

**CYLINDER BLOCK
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599440	Cylinder Block	1
2	1599441	Plug	3
3	1599442	Plug	1
4	1599451	Plug	8
5	1599444	Bushing	1
6	1599446	Cotter Pin	2
7	1599449	Plug	1
8	1599445	Washer	1
9	1599448	Bolt	1
10	2092548	Kit-Crankshaft Bearing (Standard)	5
10	2092549	Kit-Bearing (U/S 0.25)	5
11	2092552	Kit-Thrust Bearing (Standard)	2
11	2092553	Kit-Thrust Bearing (U/S 0.25)	2
12	1599443	Bolt	10
13	1599454	Bolt	18
14	1599455	Cylinder Head Gasket	1
14	4000453	Cylinder Head Gasket (1.0MM Over Size) (2.6L)	1
14	4000454	Cylinder Head Gasket (0.8MM Option) (2.6L)	1
15	1599458	Pin	2
16	1599468	O-Ring	1
17	1599469	O-Ring	1
	1599898	Kit-Gasket (2.6L Engine Complete)	1

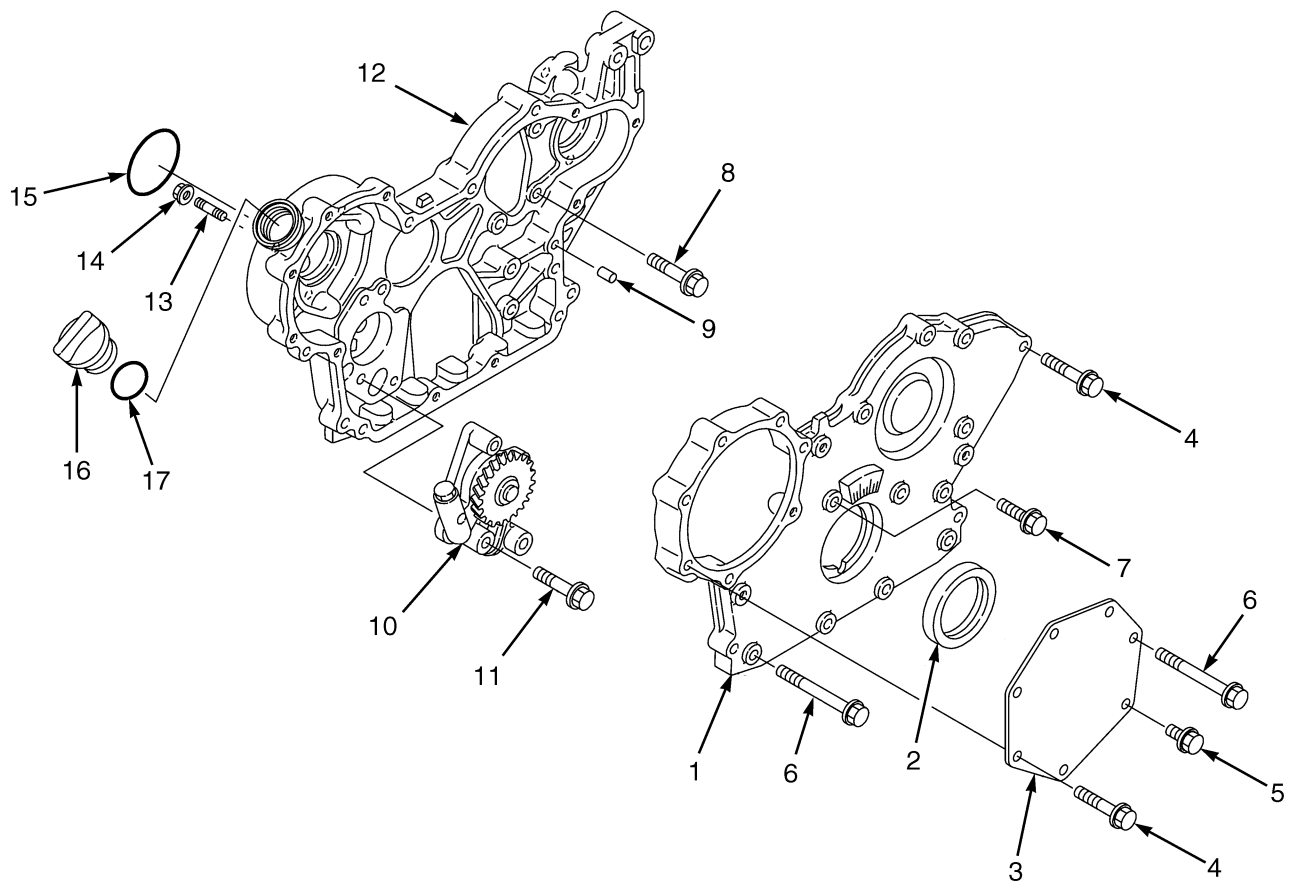
INTAKE AND EXHAUST MANIFOLD (FIGURE 3-8)
YANMAR 2.6L DIESEL

BP090185

**INTAKE AND EXHAUST MANIFOLD
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599556	Intake Manifold	1
2	1599543	Gasket	1
3	1599475	Bolt	9
4	1599559	Exhaust Manifold	1
5	1599560	Gasket	1
6	1599561	Bolt	9
7	1599562	Stud	4
8	1599563	Stud	2
9	2068378	Nut	2
10	1599565	Gasket	1
11	1599567	Adapter	1
12	1599568	Bolt	4
	1599898	Kit-Gasket (2.6L Engine Complete)	1

GEAR HOUSING (FIGURE 3-9) YANMAR 2.6L DIESEL

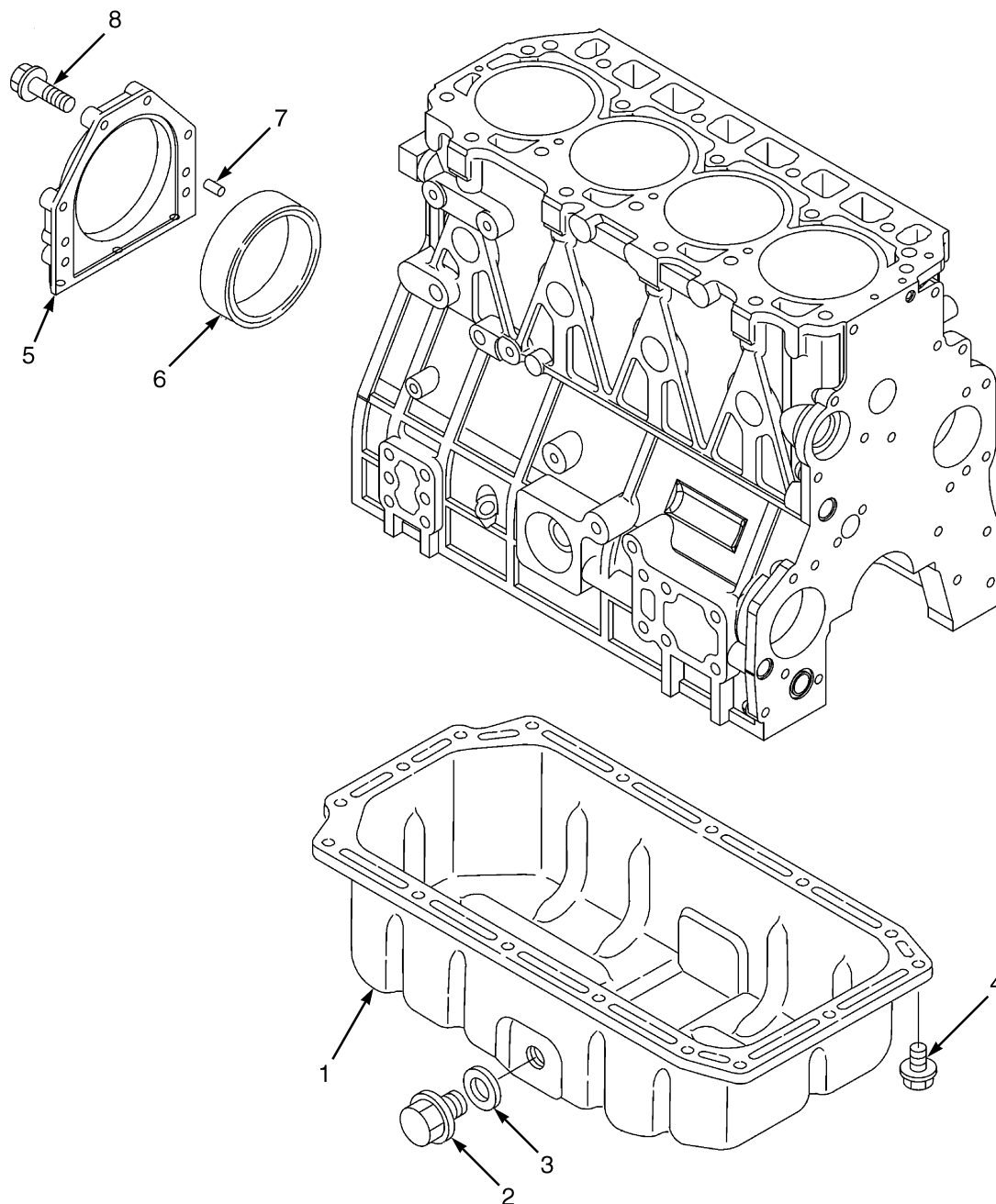


BP090182

**GEAR HOUSING
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	2101708	Gear Cover Assembly	1
2	2100927	Oil Seal	1
3	1599461	Cover	1
4	1599473	Bolt	10
5	1599470	Bolt	1
6	1599476	Bolt	7
7	1599472	Bolt	1
8	1599471	Bolt	3
9	1599458	Pin	4
10	1599466	Engine Oil Pump	1
11	1599475	Bolt	1
12	1599465	Cover	1
13	1599467	Stud	3
14	2068378	Nut	3
15	1599462	O-Ring	1
16	1599463	Cap (Oil Fill)	1
17	1599464	O-Ring	1
	1599478	Gasket (Liquid)	AR
18	2084312	Gasket (Liquid)	1
	1599898	Kit-Gasket (2.6L Engine Complete)	1

OIL PAN (FIGURE 3-10) YANMAR 2.6L DIESEL

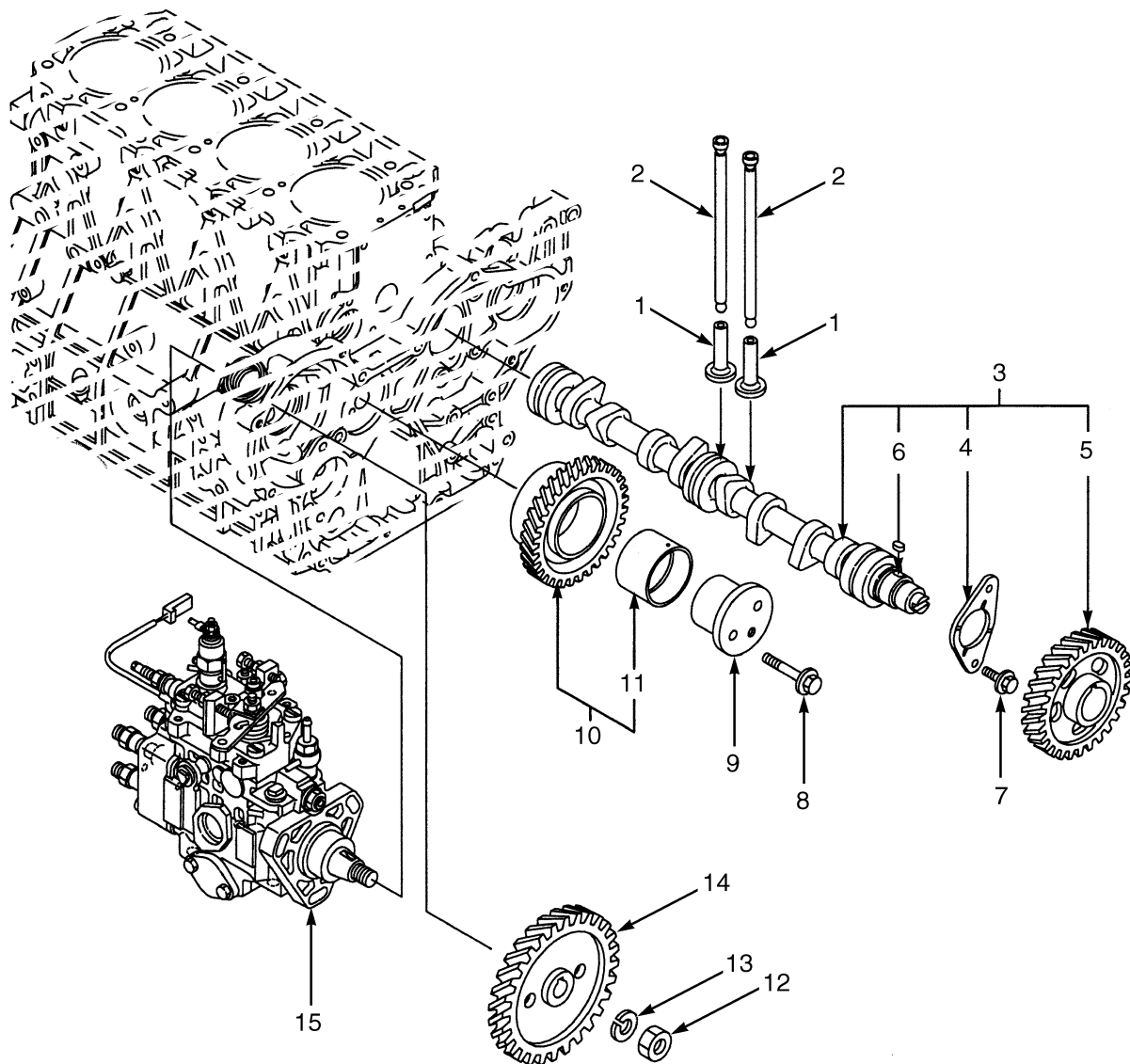


BP090183

**OIL PAN
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599479	Oil Pan	1
2	1599480	Drain Plug	1
3	1599481	Oil Seal	1
4	1599448	Bolt	16
5	1599483	Case	1
6	1599484		
	1707826	Seal	1
7	1599458	Pin	2
8	1599485	Bolt	6
	1599478	Gasket (Liquid) (Not Illustrated)	AR
	1599898	Kit-Gasket (2.6L Engine Complete)	1

CAMSHAFT AND DRIVE GEAR (FIGURE 3-11) YANMAR 2.6L DIESEL

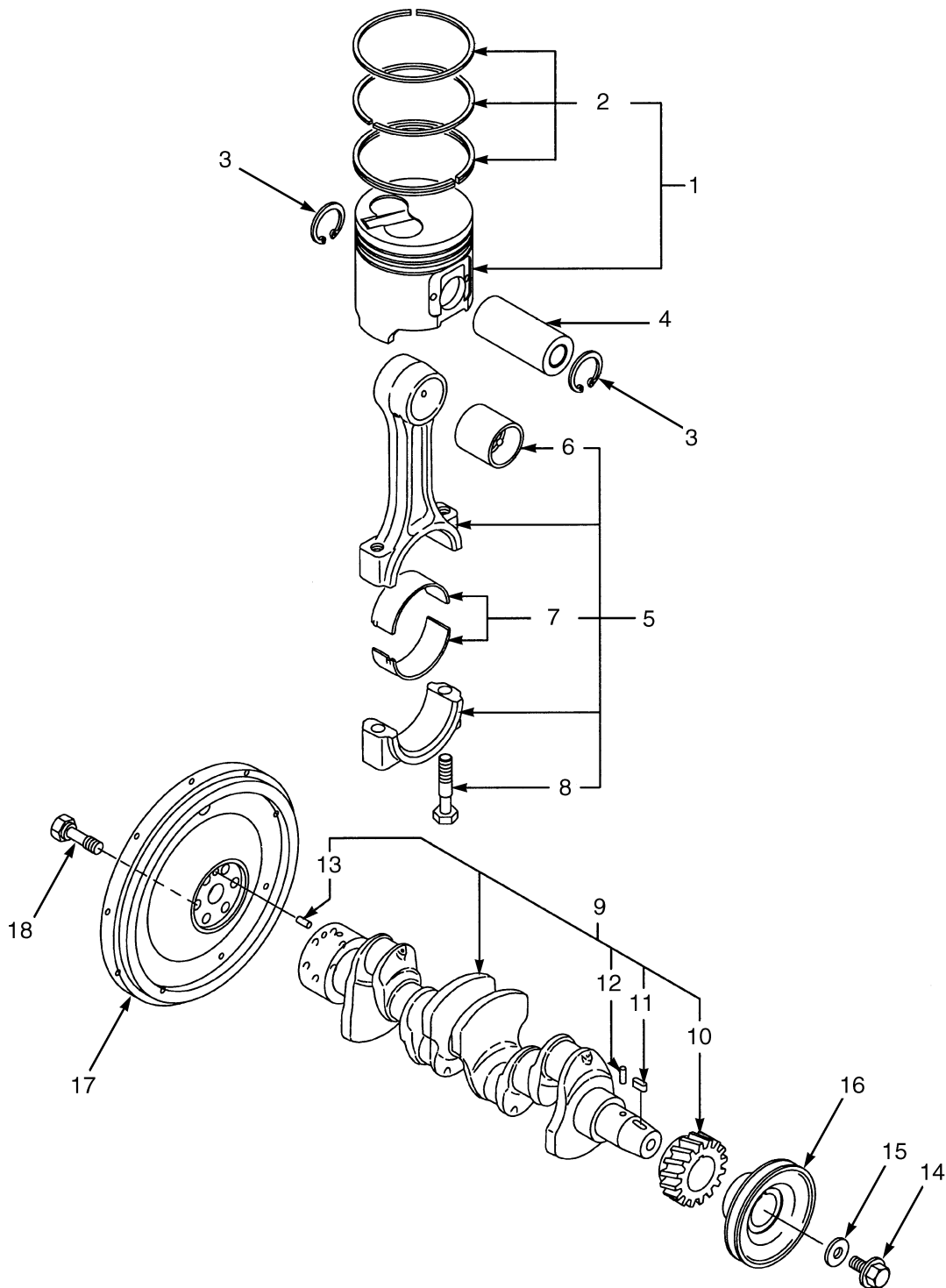


BP090186

**CAMSHAFT AND DRIVE GEAR
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599569	Tappet	8
2	1599570	Push Rod	8
3	1599571	Camshaft	1
4	1599572	Retainer	1
5	1599573	Gear	1
6	1599574	Key	1
7	1599470	Bolt	2
8	1599579	Bolt	2
9	1599576	Shaft (Idler)	1
10	1599577		
	4021292	Idler Gear	1
11	1599578	Bushing	1
12	1599582	Locknut	1
13	1599581	Spring Washer	1
14	1599580	Gear	1
15	1599914	Injection Pump (☞ Figure 4-14).....	1

CRANKSHAFT AND PISTONS (FIGURE 3-12) YANMAR 2.6L DIESEL

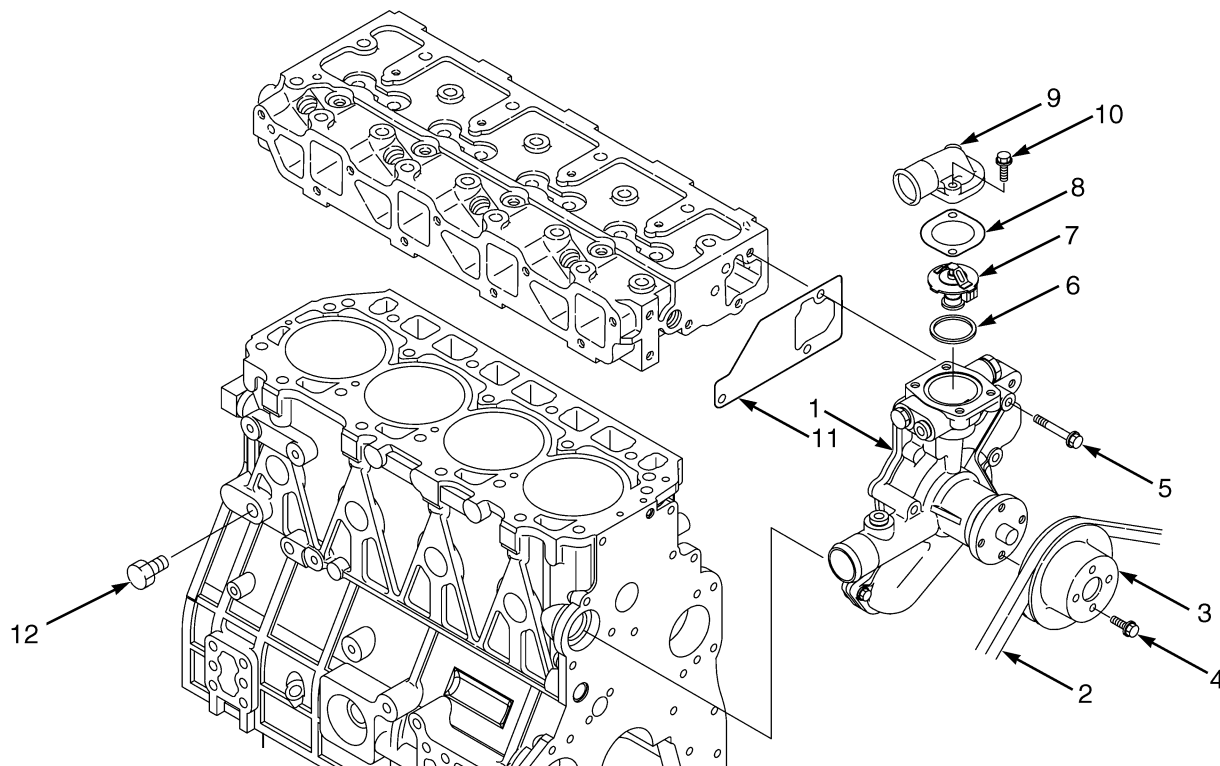


BP090187

**CRANKSHAFT AND PISTONS
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599592	Piston (With Standard Rings)	4
1	1599600	Kit-Piston (O/S 0.25 with Rings)	4
2	1599593	Kit-Piston Ring (Standard)	1
2	1599601	Kit-Piston Ring (O/S 0.25)	1
3	1599595	Snap Ring	8
4	1599594	Pin	4
5	1599596	Piston Rod	4
6	1599597	Bushing	1
7	2092550	Piston Rod Bearing (Standard)	1
7	2092551	Bearing (U/S 0.25)	4
8	1599598	Bolt	2
9	1599583	Crankshaft	1
10	1599584	Gear	1
11	1599574	Key	1
12	1599585	Pin	1
13	1599586	Pin	1
14	1599590	Bolt	1
15	1599589	Washer	1
16	1599588	Pulley	1
17	1615800	Flywheel	1
17	1707341	Flywheel	1
18	1599591	Bolt	6

WATER PUMP (FIGURE 3-13) YANMAR 2.6L DIESEL



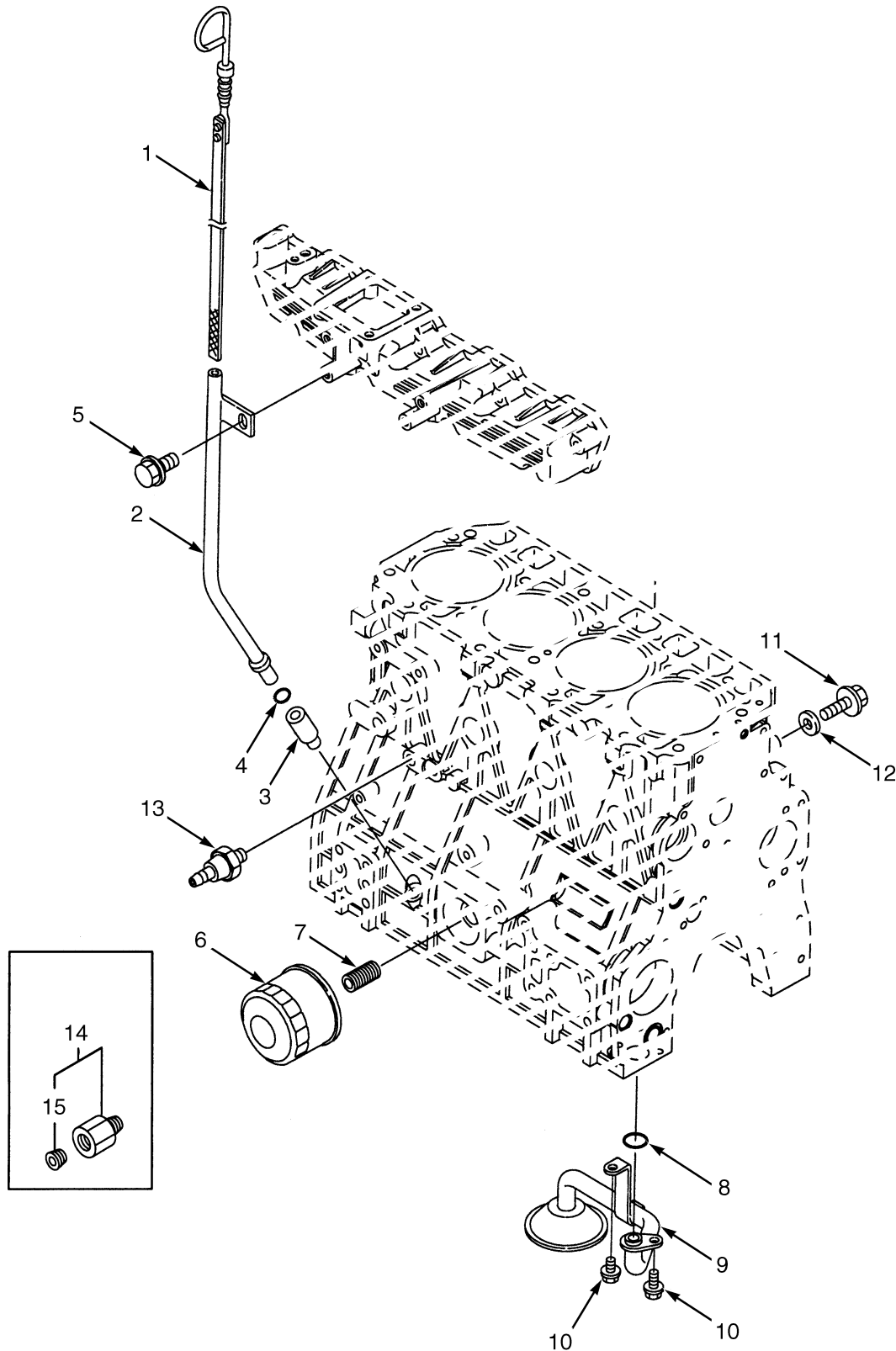
BP090189

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599805	Water Pump	1
2	1599796	V-Belt	1
3	1599795	Water Pump Pulley	1
4	1599448	Bolt	4
5	1599579	Bolt	3
6	1597709	Gasket	1
7	1599800	Thermostat	1
8	1597710	Gasket	1
9	1599798	Cover	1
10	1599801	Bolt	1
11	1599803	Gasket	1
12	1599802	Drain Plug	2
	1599898	Kit-Gasket (2.6L Engine Complete)	1

NOTES

[illegible]

LUBRICATION SYSTEM (FIGURE 3-14) YANMAR 2.6L DIESEL



BP090188

**LUBRICATION SYSTEM
YANMAR 2.6L DIESEL**

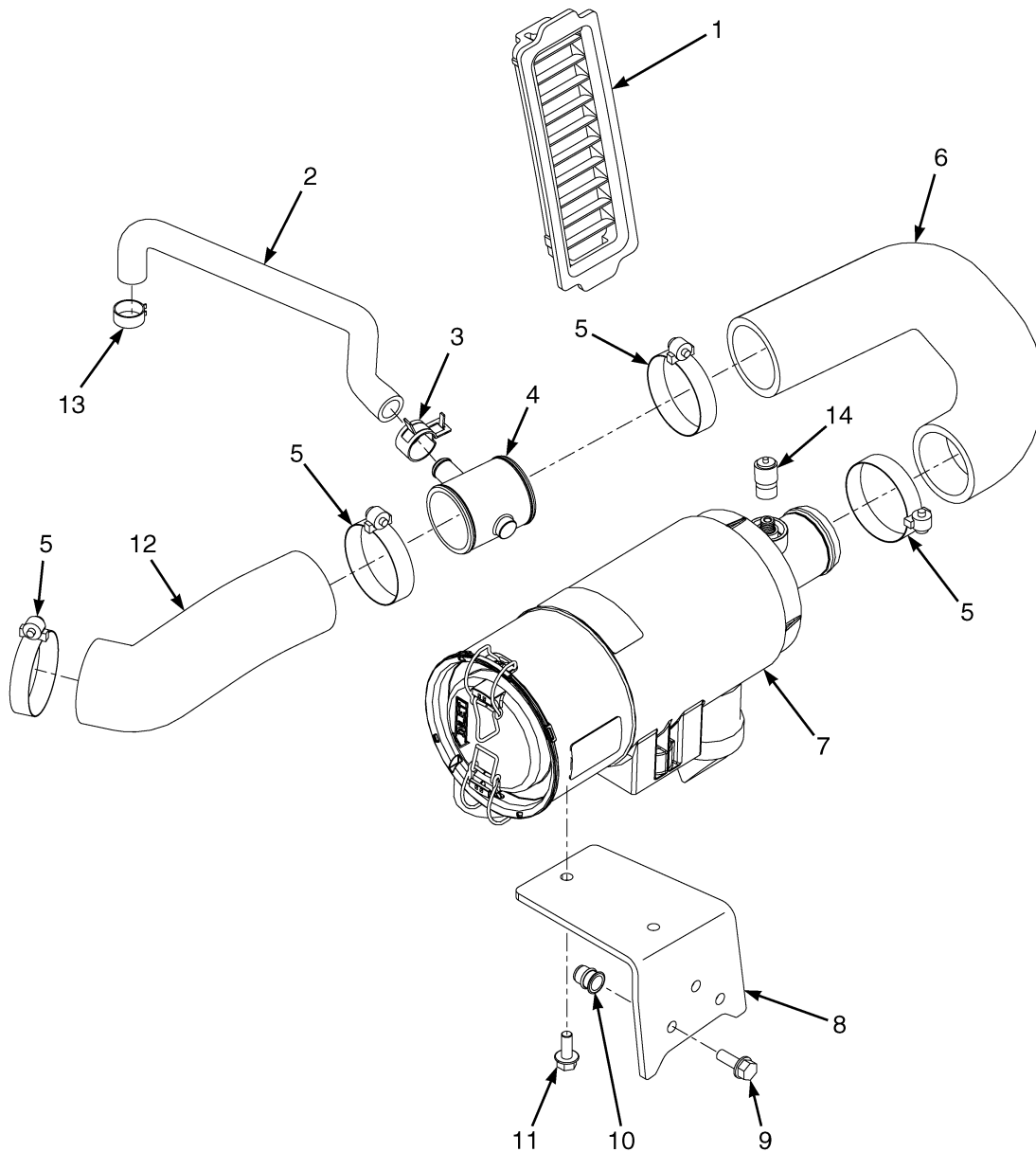
ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599604	Dipstick	1
2	1599606	Dipstick Tube	1
3	1599605	Guide	1
4	1599607	O-Ring	1
5	1599470	Bolt	1
6	2077983	Oil Filter	1
7	1599610	Stud	1
8	1599468	O-Ring	1
9	1599611	Pipe	1
10	1599612	Bolt	2
11	1599448	Bolt	1
12	1599445	Washer	1
13	1599613	Pressure Switch (Oil Pressure)	1
14	1599616	Plug (Oil Pressure Sensor)	1
15	1599793	Plug	1
	1599898	Kit-Gasket (2.6L Engine Complete)	1

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.

**SECTION 4
FUEL SYSTEM**

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AIR INTAKE SYSTEM (FIGURE 4-1) MAZDA 2.0L



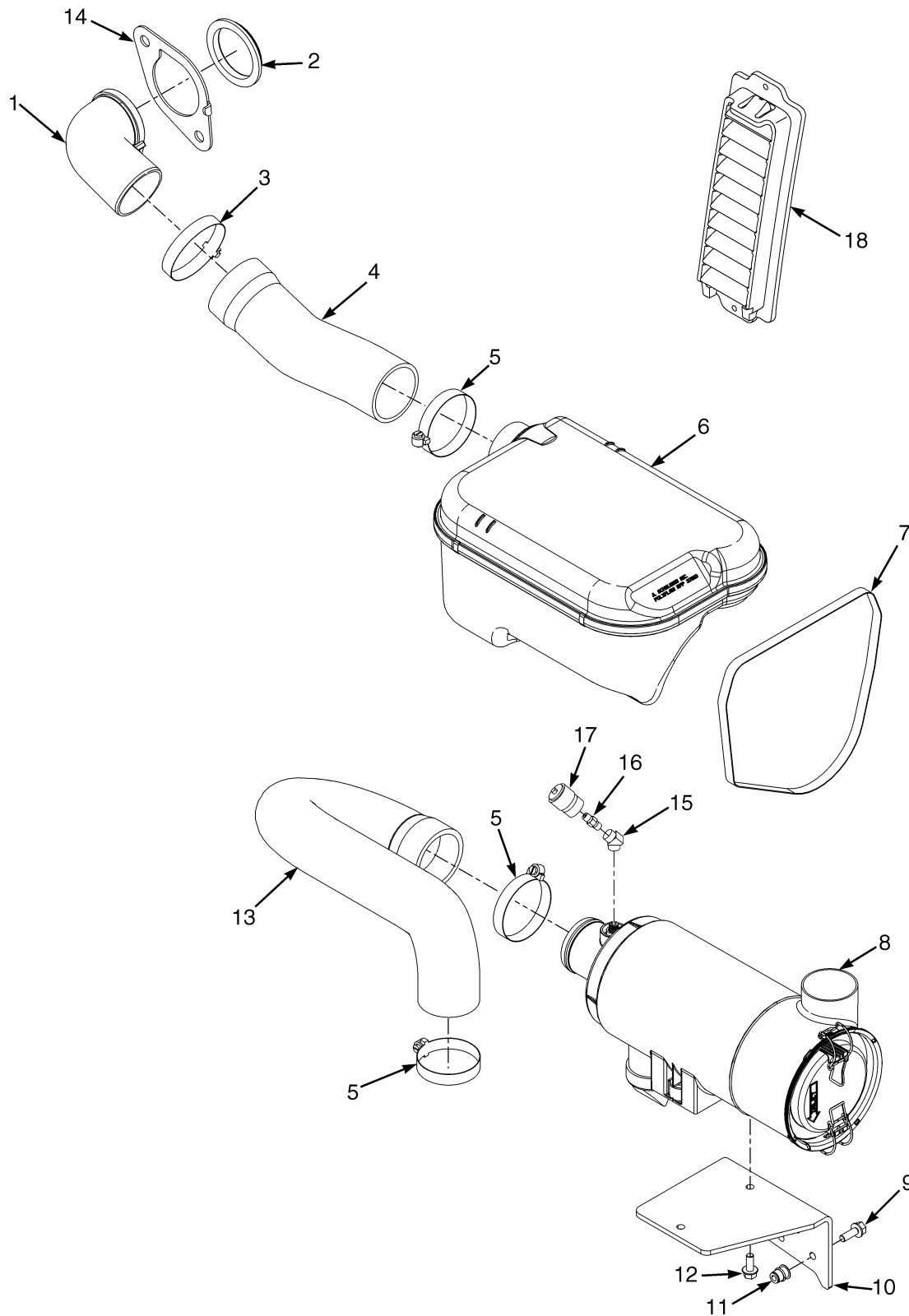
BP130318

**AIR INTAKE SYSTEM
MAZDA 2.0L**

ITEM	PART NO.	DESCRIPTION	QTY
1	2067476	Grill	1
2	2091232	Hose	1
3	1501994	Hose Clamp	1
4	1640814	Coupler	1
5	112989	Hose Clamp	4
6	2085259	Hose	1
7	a 2060843	Air Filter (☞ Figure 4-3).....	1
7	b 4611249	Air Filter (☞ Figure 4-3).....	1
8	1501848	Bracket	1
9	1583611	Capscrew	3
10	1530243	Insert	3
11	1527879	Capscrew	2
12	2085421	Hose	1
13	1452463	Hose Clamp	1
14	165991	Indicator (Restriction)	1

FOOTNOTES:**a** → 10/2010**b** 10/2010 →

AIR INTAKE SYSTEM (FIGURE 4-2) YANMAR DIESEL

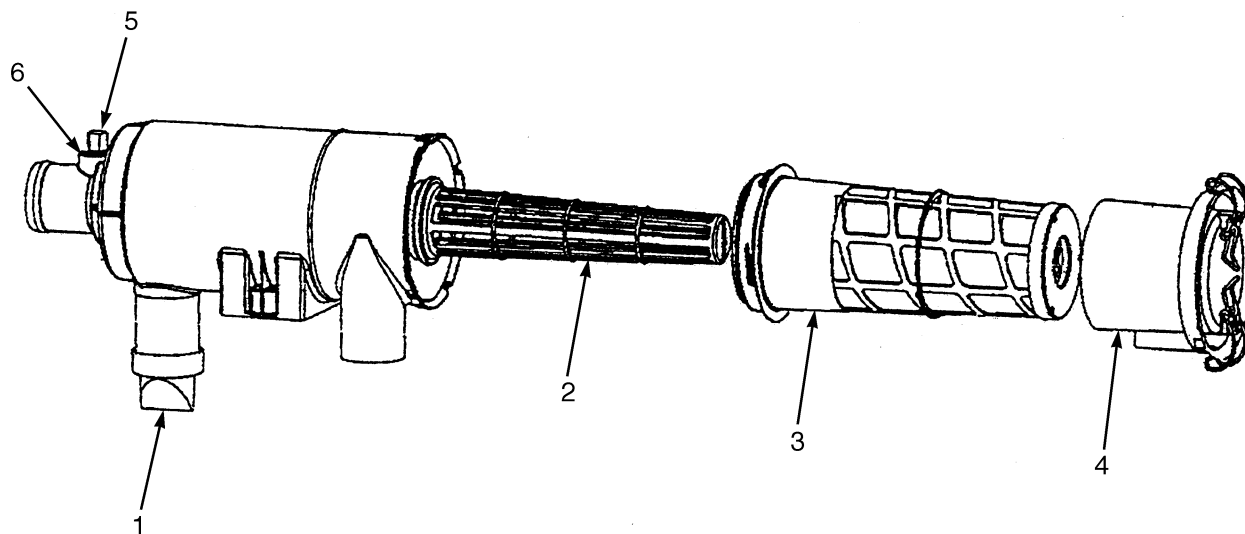


BP130293

**AIR INTAKE SYSTEM
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1581438	Elbow	1
2	1502079	Grommet (Intake)	1
3	1394008	Hose Clamp	1
4	1565212	Hose (Dirty Air)	1
5	112989	Hose Clamp	3
6	2102226	Silencer	1
6	2092848	Clip	6
6	15871	O-Ring	1
7	1636797	Strap	1
8	4612945	Air Filter (☞ Figure 4-3).....	1
9	1583611	Capscrew	3
10	1501849	Bracket	1
10	4034386	Bracket	1
11	1527879	Capscrew	2
12	1530243	Insert	3
13	1568082	Hose (Clean Air)	1
14	1581439	Retainer	1
15	17652	Fitting	1
16	16150	Fitting	1
17	165991	Indicator (Restriction)	1
18	2067476	Grill	1

AIR FILTER ASSEMBLY (FIGURE 4-3) LPG AND DIESEL



BP130113

KEY:

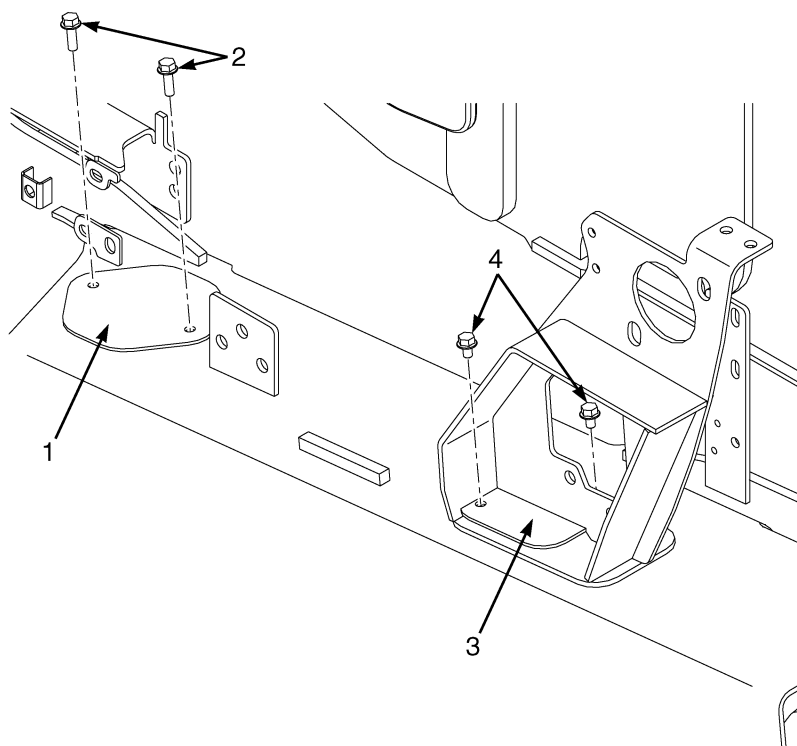
A: LPG Engine

B: Diesel Engine

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4611249	Air Filter	1	..
	4612945	Air Filter	..	1
1	374923	Valve	1	1
2	1559419	Guide (With O-Ring)	1	..
2	1574260	Liner (With O-Ring)	..	1
3	1559418	Filter Element	1	..
3	1574111	Filter Element	..	1
4	1559420	Cover	1	..
4	1687933	Cover	..	1
5	141331	Cap	1	1
6	a 4030497	Connector (Pipe Nipple)	1	1

FOOTNOTES:

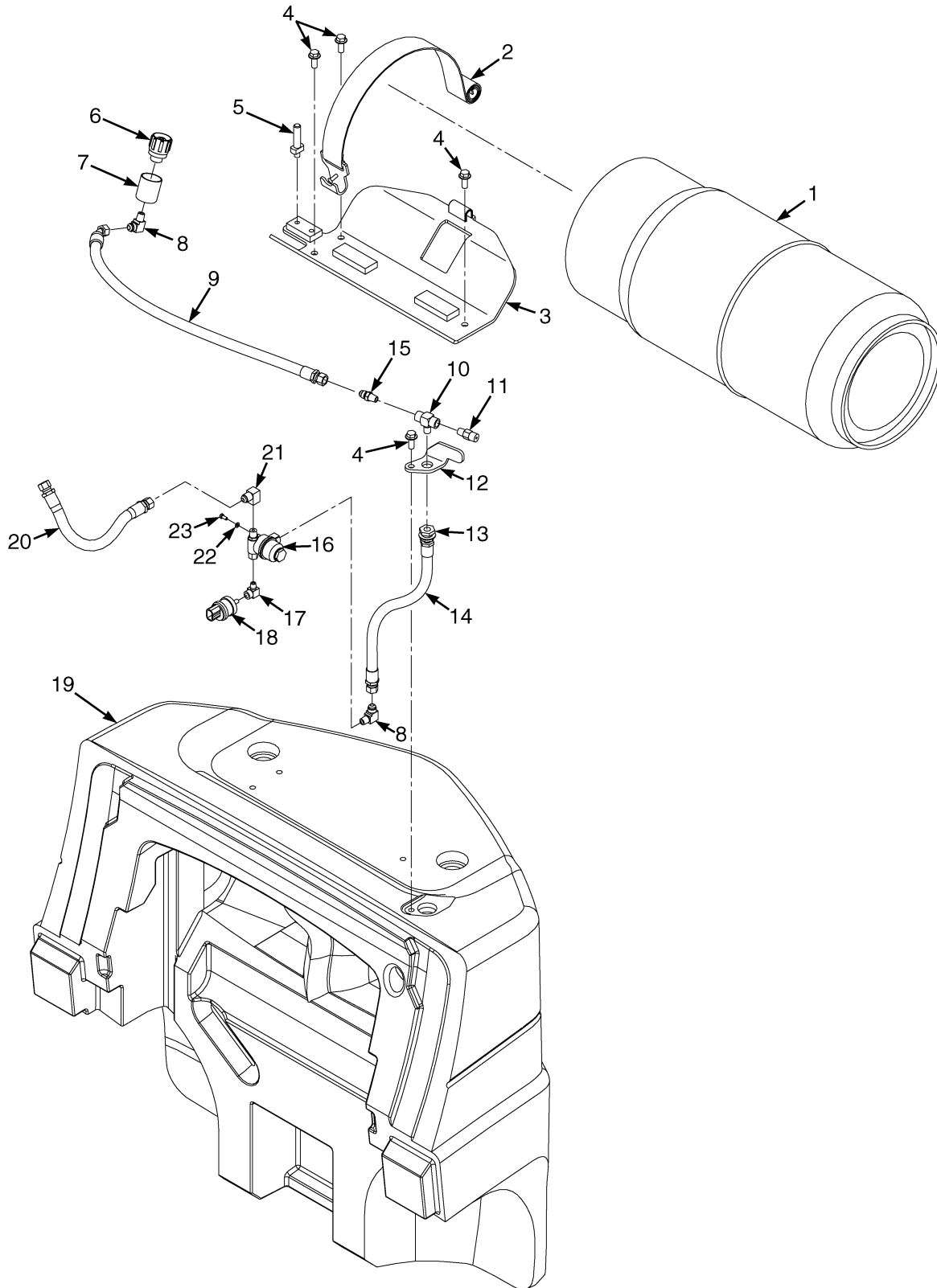
a 10/2010 →

FUEL TANK COVERS (FIGURE 4-4)
LATIN AMERICAN SERIES

BP130312

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Cover	1
2	1510113	Capscrew	2
3	.....	Cover	1
4	1529366	Capscrew	2

LPG FUEL TANK AND MOUNTING (FIGURE 4-5)

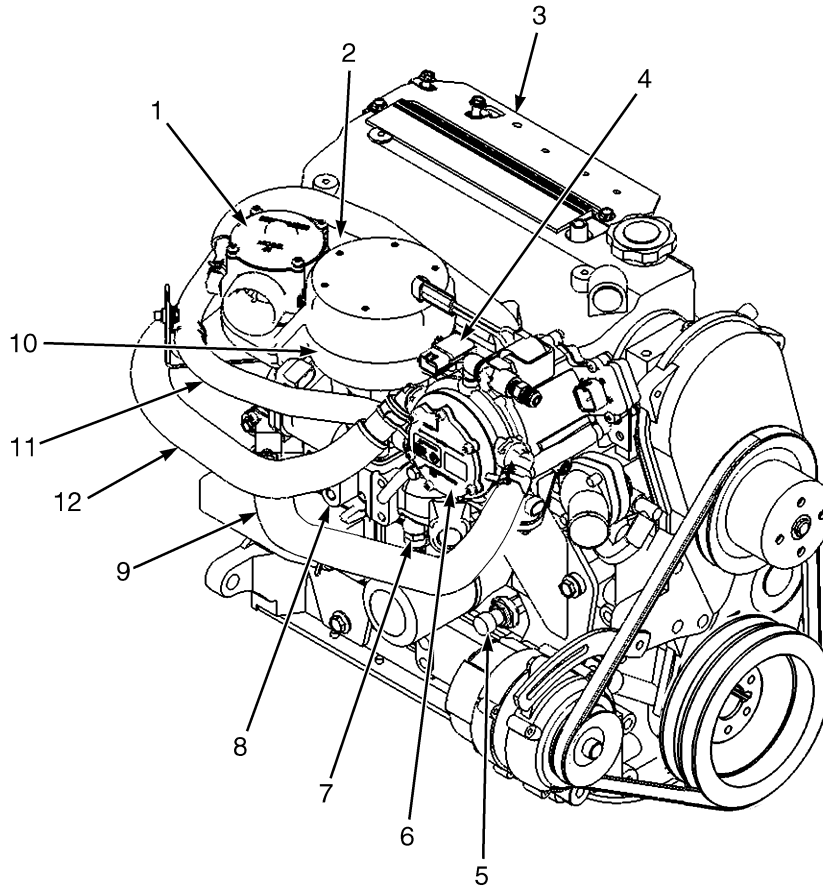


BP130310

LPG FUEL TANK AND MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
1	1328890	Lpg Tank (33.5 LB Steel)	1
1	1328892	LPG Tank (33.5 LB Aluminum)	1
2	4013200	Strap	1
3	4013198	LPG Tank Bracket	1
4	1510117	Capscrew	4
5	4003902	Pin	1
6	97999	Fitting	1
7	2071517	Sleeve	1
8	14358	Fitting	1
9	4001095	Hose Assy	1
10	17664	Fitting	1
11	101809	Relief Valve	1
12	4001097	Bracket	1
13	2047132	Fitting	1
14	4602370	Hose Assy	1
15	16134	Fitting	1
16	2105803	Fuel Filter (LPG)	1
16	1689544	Kit-Filter Element	1
17	16151	Fitting	1
18	1501970	Pressure Switch (Low Fuel)	1
19	114312	Strap Clamp	1
20	4602843	Wire Harness (Adapter) (☞Figure 5-14).....	1
21	14372	Fitting	1
22	320155	Washer	2
23	2046866	Capscrew	2
24	4029512	Hose Assy	1
25	.....	Counterweight (☞Figure 1-4).....	1

FUEL SYSTEM (FIGURE 4-6) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



BP130244

ITEM	PART NO.	DESCRIPTION	QTY
1	1650758	Mixer (☞ Figure 4-8).....	1
2	1539962	Sensor (Air Temperature)	1
3	1650507	Bracket (Relay)	1
4	1548352	Sensor (Boost, M.A.P.)	1
5	4016652	Pressure Transducer	1
5	1650506	Adapter	1
6	1701813	Pressure Regulator (EPR) (☞ Figure 4-9).....	1
7	4001804	Sensor (Temperature)	1
8	a 4602495	Engine Control Module (☞ Figure 5-5).....	1
8	b 4613691	Engine Control Module (☞ Figure 5-5).....	1
9	1650784	Hose (RH) (Cooling)	2
10	1650404	Throttle Body (☞ Figure 4-8).....	1
11	1650782	Hose	1
12	1650784	Hose (RH) (Cooling)	1

FOOTNOTES:

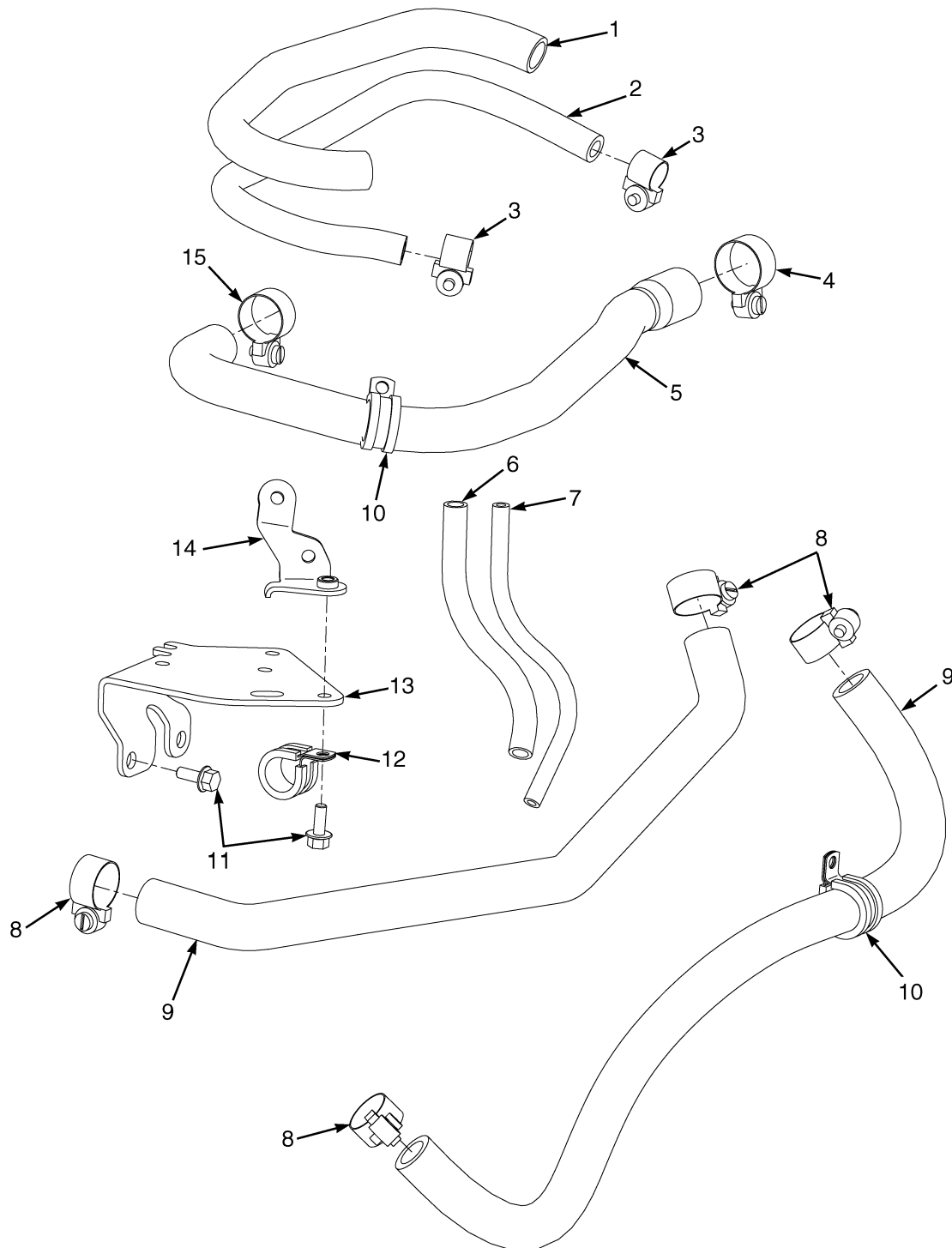
a → S/N A274V01843J

b S/N A274V01844J →

NOTES

[illegible]

FUEL SYSTEM HOSES AND ATTACHING PARTS (FIGURE 4-7) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES

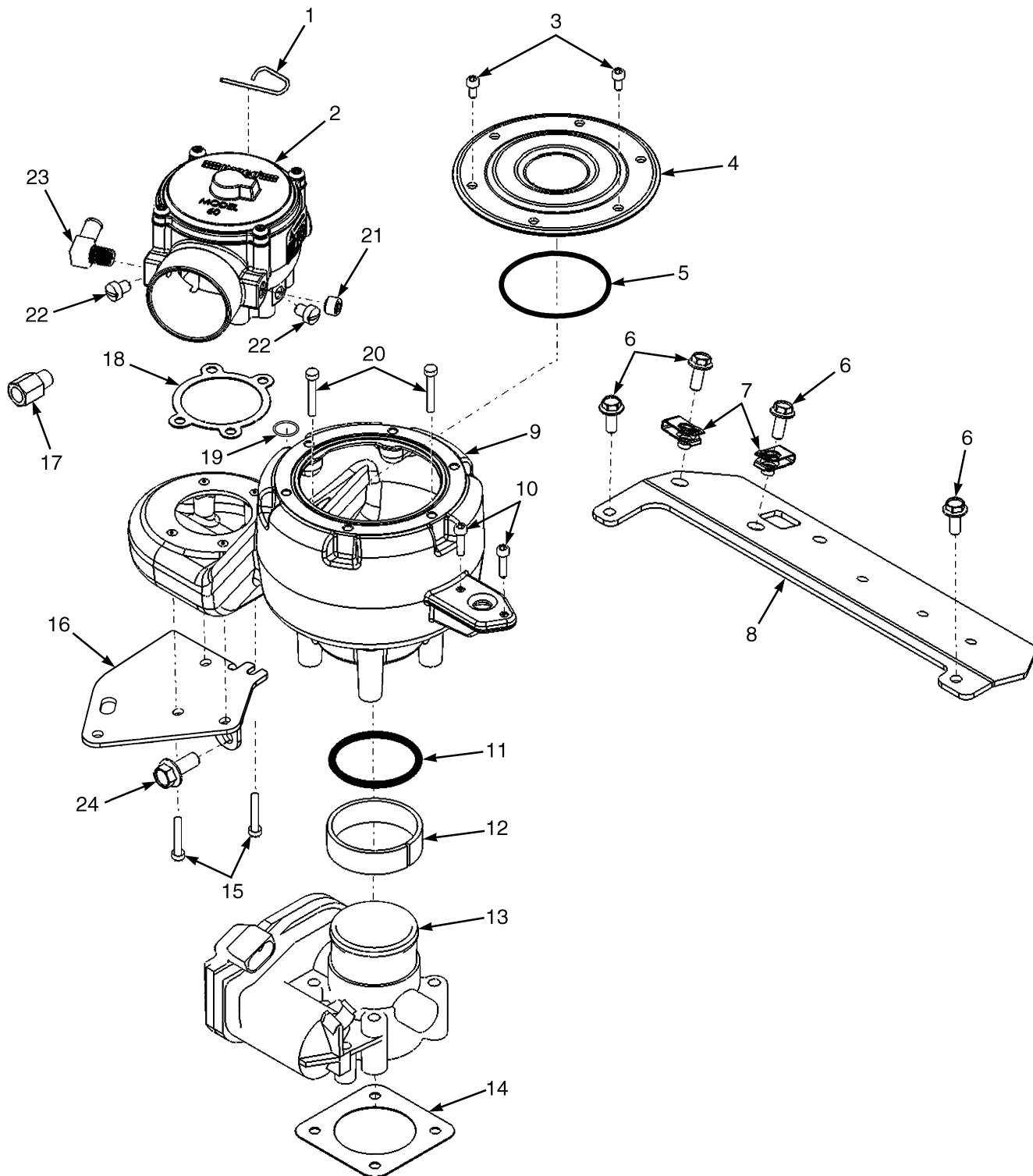


BP130317

FUEL SYSTEM HOSES AND ATTACHING PARTS
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	1650780	Hose	1
2	1650779	Hose (Vacuum Balance)	1
3	1614770	Hose Clamp	2
4	4015023	Hose Clamp	1
5	1650782	Hose (Fuel)	1
6	1650791	Hose	1
7	1650785	Hose (Vacuum)	1
8	4015021	Hose Clamp	4
9	1650784	Hose (RH) (Cooling)	2
10	1653901	Clamp	2
11	1527876	Capscrew	3
12	1653900	Clamp	1
13	1650762	Bracket	1
14	1650789	Bracket	1
15	4015022	Hose Clamp	1

MIXER AND THROTTLE BODY ASSEMBLY (FIGURE 4-8) MAZDA 2.0L — 2010 EMISSION COMPLIANT ENGINES



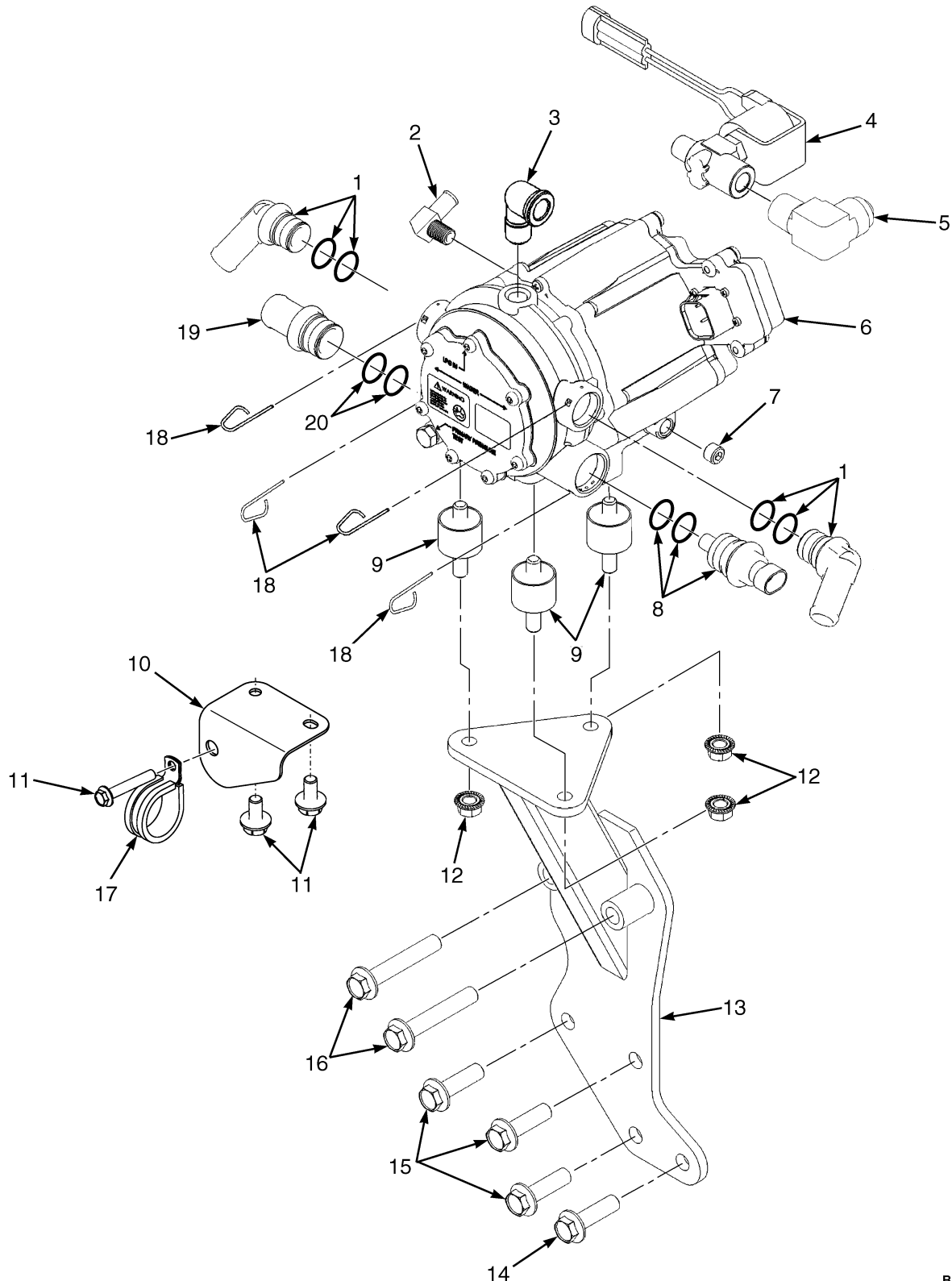
BP130285

MIXER AND THROTTLE BODY ASSEMBLY
MAZDA 2.0L – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	1558161	Pin	4
2	1650758	Mixer	1
3	296508	Screw	6
4	1650760	Cover	1
5	1650400	O-Ring	1
6	1558432	Bolt	6
7	1650402	Nut	2
8	1650507	Bracket (Relay)	1
9	1650761	Adapter	1
10	292672	Capscrew	2
11	1650405	O-Ring	1
12	1650407	Sleeve	1
13	1650404	Throttle Body	1
14	1650504	Gasket (Throttle Body)	1
15	1650757	Screw	4
16	1650762	Bracket	1
17	1650506	Adapter	1
18	204787	Gasket	1
19	1650403	Seal	1
20	1682881	Screw	4
21	1682882	Plug	1
22	326926	Screw	2
23	1361164	Fitting	1
24	1527876	Capscrew	2
	a 1558432	Bolt (Throttle Body to Adapter)	4

FOOTNOTES:**a** Not Illustrated

ELECTRONIC PRESSURE REGULATOR ASSEMBLY (FIGURE 4-9) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



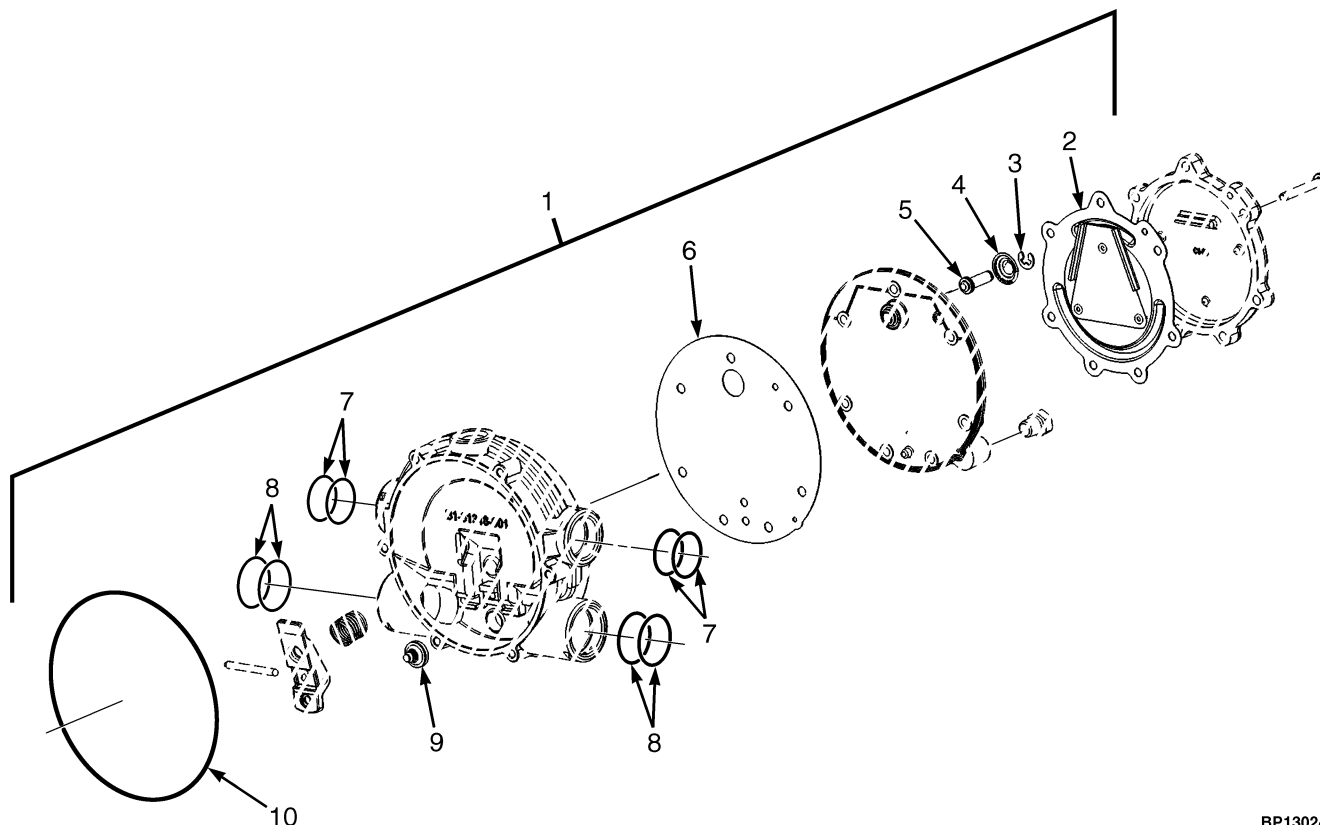
BP130294

**ELECTRONIC PRESSURE REGULATOR ASSEMBLY
MAZDA 2.0L LPG – 2010 EMISSION COMPLIANT ENGINES**

ITEM	PART NO.	DESCRIPTION	QTY
1	1558176	Fitting	2
1	4043883	Kit-Valve (LPG Shutoff)	1
2	1361164	Fitting	1
3	1650769	Fitting	1
4	a 1697294	Shutoff Valve	1
4	b 4040480	LPG Lock-Off	1
5	1650770	Fitting	1
6	1701813	Pressure Regulator (☞Figure 4-10).....	1
7	1682882	Plug	1
8	1672800	Sensor	1
8	1603857	O-Ring	2
9	1650766	Mount (Vibration)	3
10	1653902	Bracket	1
11	1527876	Capscrew	3
12	1382472		
	1502543	Nut (Flange)	3
13	1650772	Bracket	1
14	1650767	Screw	1
15	1650870	Screw	3
16	1650773	Screw	2
17	1653901	Clamp	1
18	1558161	Pin	4
19	1650763	Fitting	1
20	1603857	O-Ring	2
	4043883	Kit-Valve (LPG Shutoff)	1

FOOTNOTES:**a** → PENDING PER ECN 154265**b** PENDING PER ECN 154265 →

ELECTRONIC PRESSURE REGULATOR KIT (FIGURE 4-10) LPG — MAZDA 2,0L



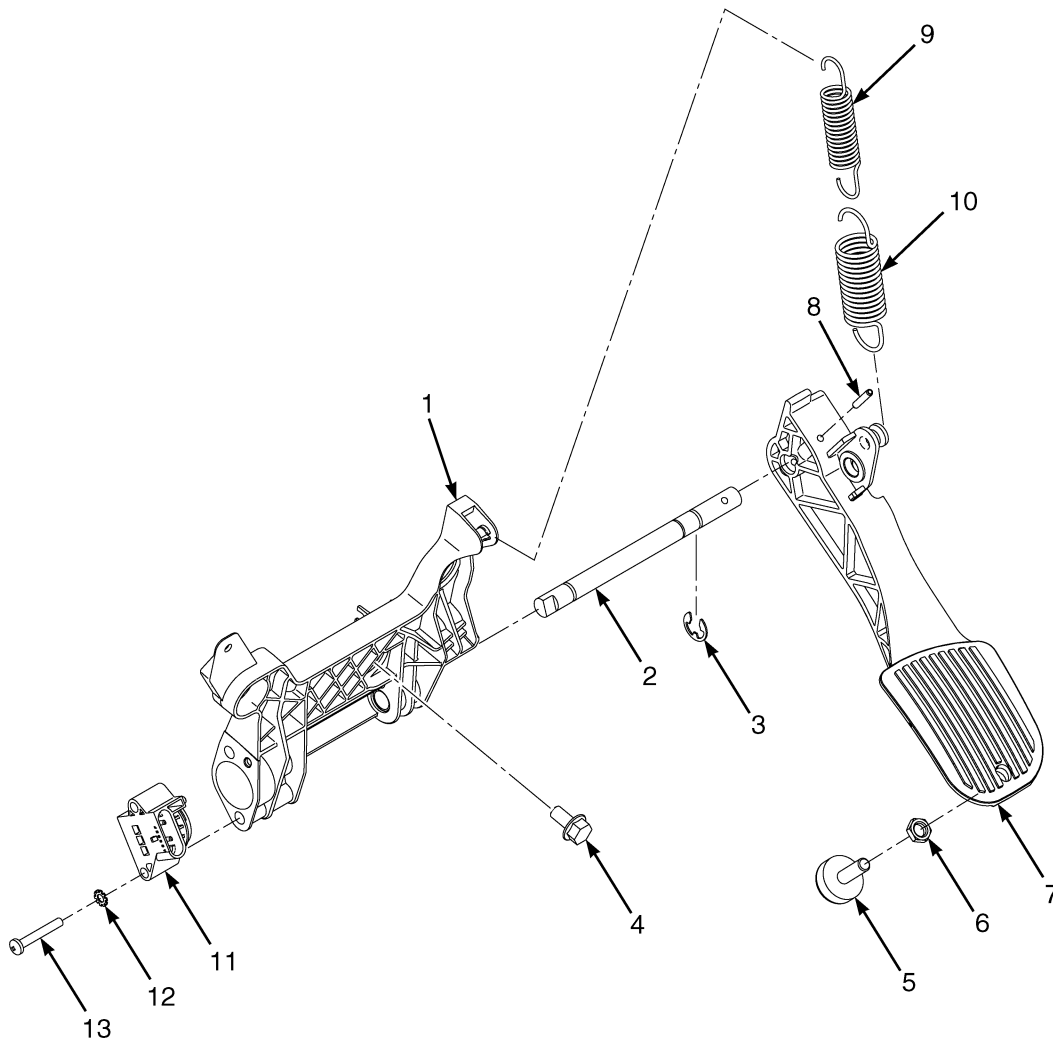
BP130247

ITEM	PART NO.	DESCRIPTION	QTY
	1701813	Pressure Regulator	1
1	4014699	Kit-Repair (Regulator Assembled)	1
2	.....	Diaphragm (Not Serviced Separately)	1
3	1455304	E-Ring (Primary)	1
4	.....	Spring (Not Serviced Separately)	1
5	1458764	Pin (Primary)	1
6	1375033	Gasket (Body Secondary)	1
7	.....	O-Ring (Not Serviced Separately)	4
8	1603857	O-Ring	4
9	.....	Seat (Not Serviced Separately)	1
10	.....	Clamp Plate Seal (Not Serviced Separately)	1
	1650778	Kit-Repair (Electronic Pressure Regulator)	1

NOTES

[illegible]

THROTTLE PEDAL AND ATTACHING PARTS (FIGURE 4-11)

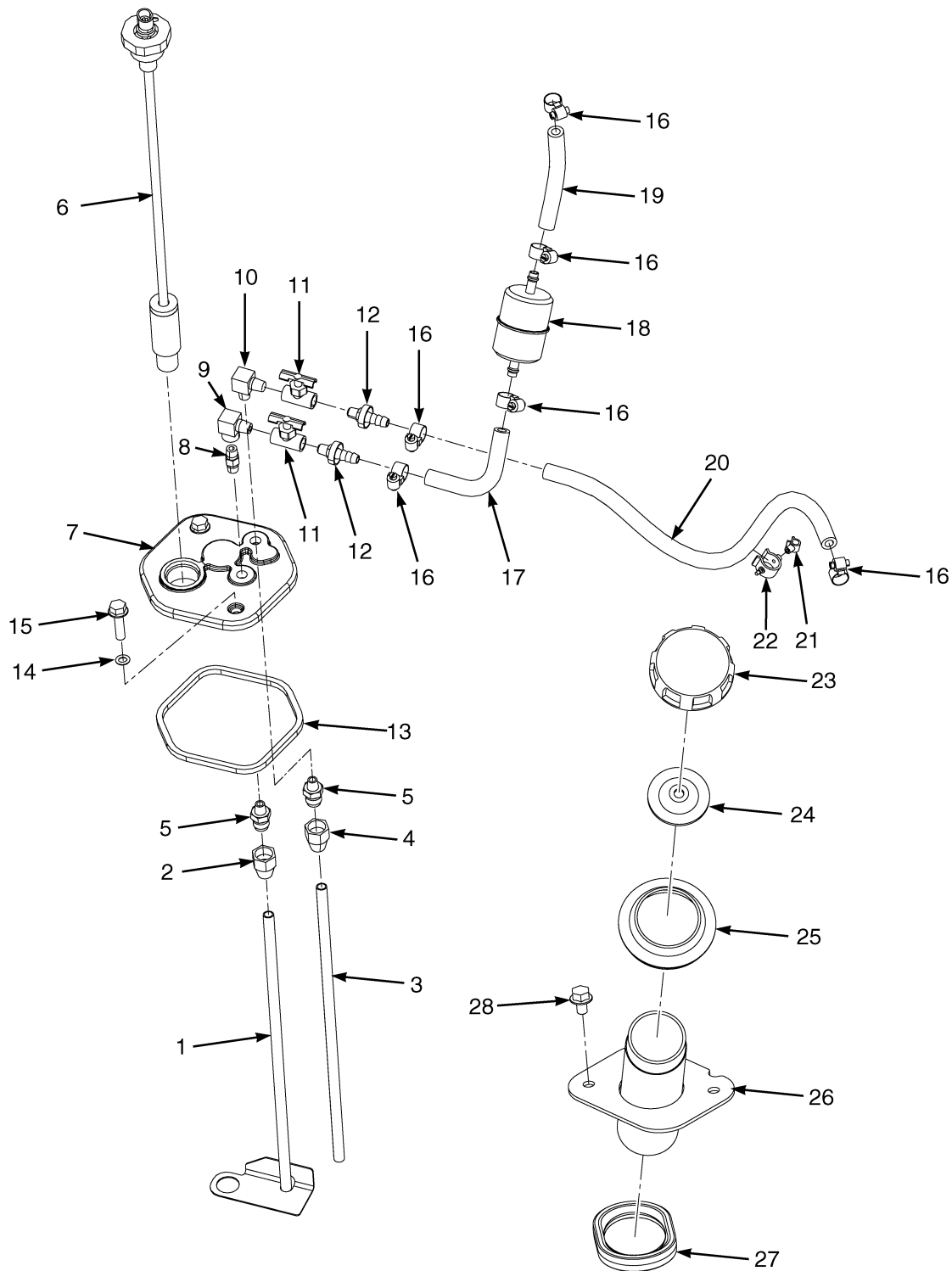


BP130319

THROTTLE PEDAL AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1654411	Throttle Plate	1
2	1654754	Shaft	1
3	1530971	E-Ring	1
4	1527879	Capscrew	3
5	1530311	Screw (Stop)	1
6	329069	Nut	1
7	2071181	Pedal (Standard)	1
8	302443	Roll Pin	1
9	1582301	Spring (Inner)	1
10	1582300	Spring (Outer)	1
11	2063842	Sensor (Half Throttle Position)	1
12	296378	Washer	2
13	1564752	Capscrew	2

FUEL SYSTEM (FIGURE 4-12) YANMAR DIESEL



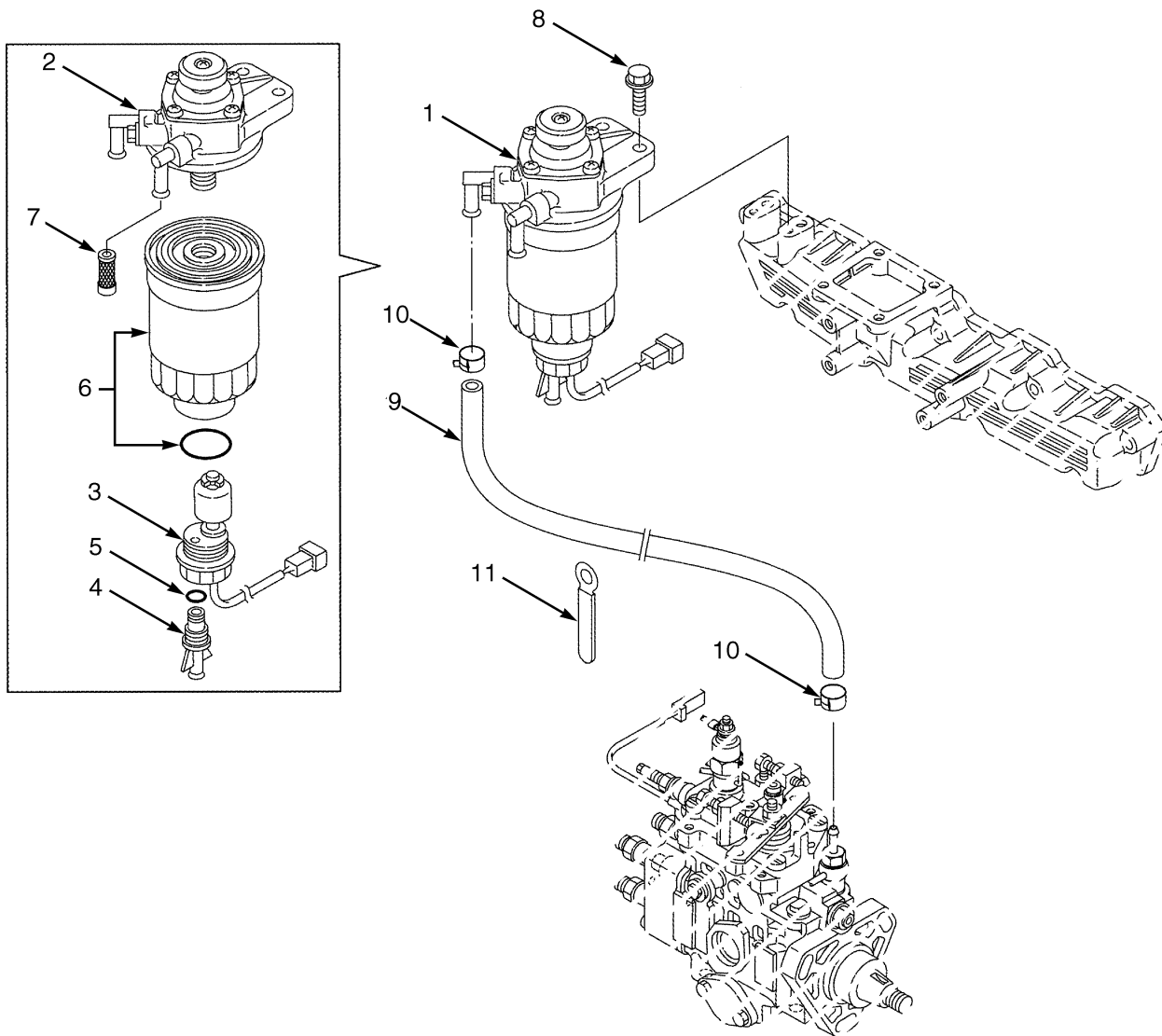
BP130323

**FUEL SYSTEM
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1532532	Fuel Sender Assembly	1
1	1532530	Tube Assembly	1
1	1532526	Tube	1
2	16121	Fitting	1
3	1532526	Tube	1
4	16121	Fitting	1
5	14303	Fitting	2
6	1501811	Fuel Sender	1
7	1532528	Cover	1
8	16150	Fitting	1
9	16151	Fitting	1
10	17650	Fitting	1
11	87446	Drain Valve (Shut-Off)	2
12	309651	Fitting	2
13	1528893	Quad Ring	1
14	1527881	Capscrew	2
15	353000	O-Ring	2
16	168718	Clamp	6
17	2081870	Hose	1
18	1304950	Fuel Filter	1
19	1551452	Hose	1
20	2062589	Hose	1
21	1542440	Clamp (Swivel)	1
22	1543691	Clamp (Swivel)	1
23	2081840	Fuel Cap	1
24	2021683	Gasket	1
25	1528608	Grommet	1
26	1564392	Pipe (Fill)	1
27	1528314		
	1593391	Seal	1
28	1529366	Capscrew	2
	a 2058000	Adhesive	1

FOOTNOTES:**a** Not Illustrated

FUEL FILTER (FIGURE 4-13) YANMAR DIESEL

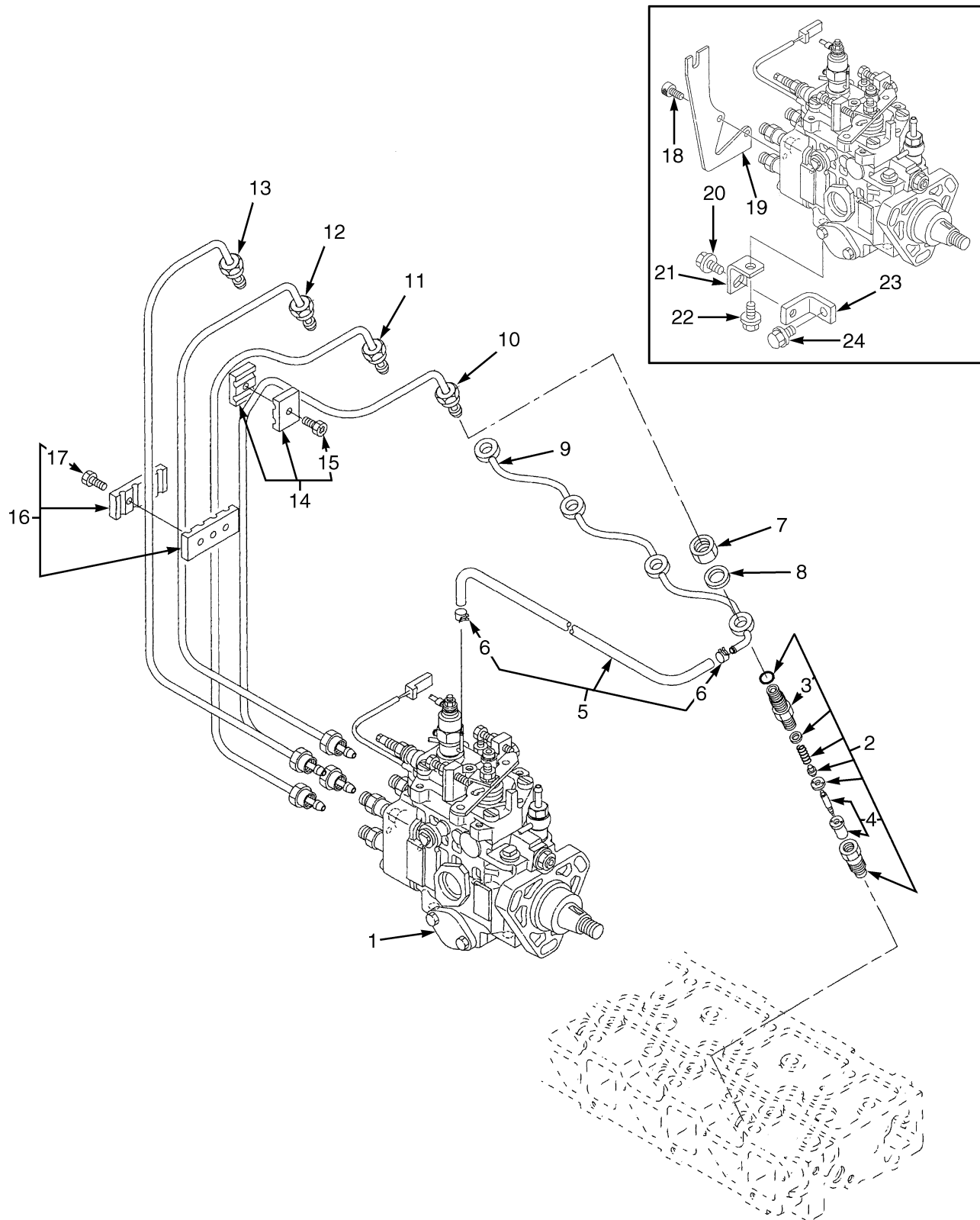


BP090212

**FUEL FILTER
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599833	Fuel Filter	1
2	1599834	Body (Primer Pump)	1
3	1599835	Sensor	1
4	1599836	Drain Plug	1
5	1599837	O-Ring	1
6	1330033	Fuel Filter (Cartridge 10 micron)	1
7	1599839	Filter	1
8	1599801	Bolt	2
9	1599841	Tube Assy	1
10	1599842	Clamp	2
11	1599843	Clamp	2

FUEL INJECTION (FIGURE 4-14) YANMAR DIESEL

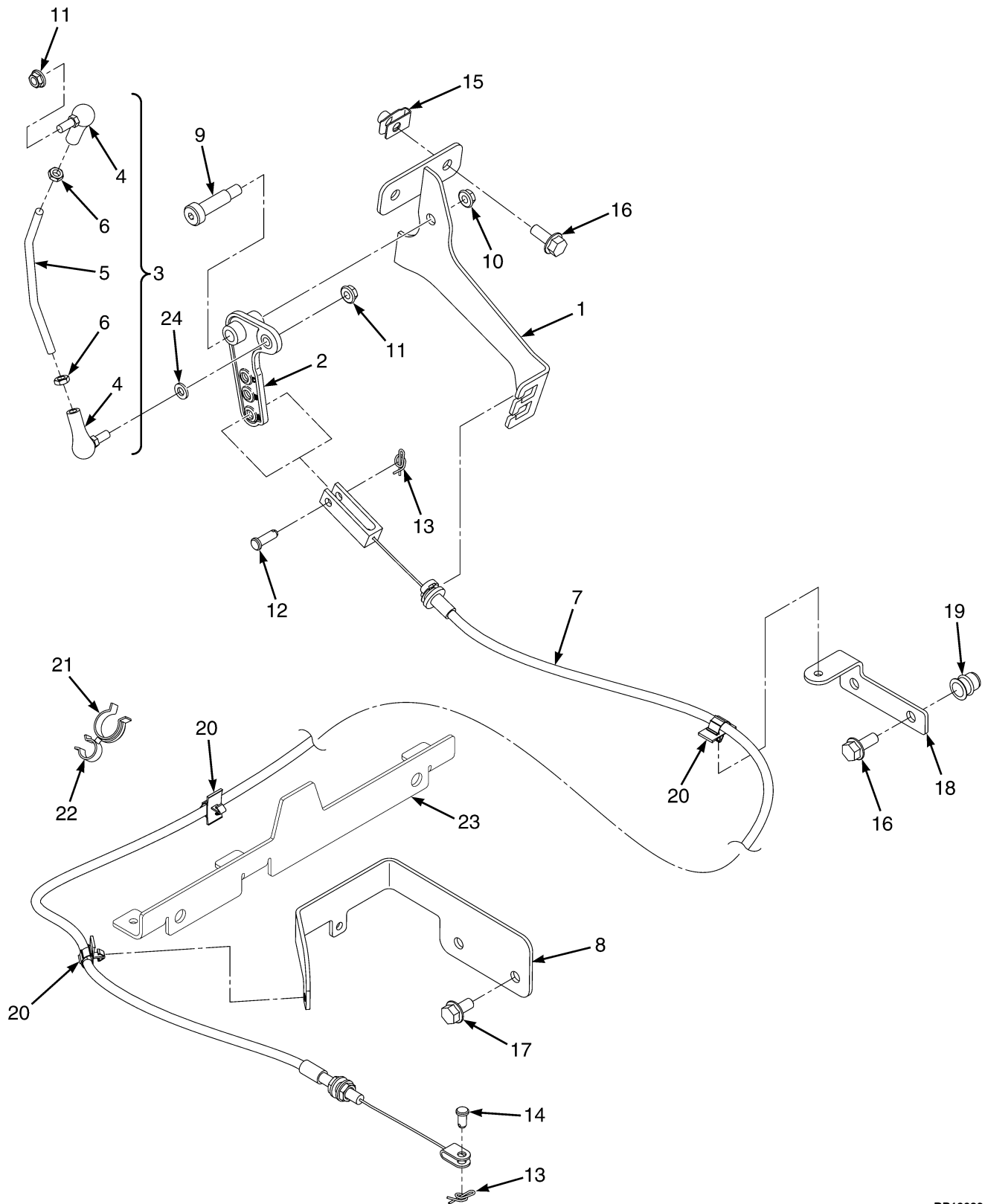


HP091421

**FUEL INJECTION
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	1688253	Engine Assy-Diesel	1
1	1599914	Injection Pump	4
1	1608616	Solenoid (Fuel Shut-Off)	1
1	1597644	Solenoid Valve (Cold Start)	1
1	1600093	O-Ring	1
2	1599818	Injector (Valve Assembly)	1
3	1599820	Retainer	1
4	1599819	Nozzle	1
5	1599828	Tube Assy	1
6	1599829	Clamp	2
7	1599832	Nut	4
8	1599831	Gasket	4
9	1599830	Tube Assy (Fuel Return)	1
10	1599827	Tube Assy (#4) (Fuel Injector)	1
11	1599826	Tube Assy (#3) (Fuel Injector)	1
12	1599825	Tube Assy (#2) (Fuel Injector)	1
13	1599824	Tube Assy (#1) (Fuel Injector)	1
14	1599821	Retainer	2
15	1599822	Bolt	1
16	1599823	Retainer	1
17	1599822	Bolt	2
18	1599908	Bolt	2
19	1599907	Bracket	1
20	1599912	Bolt	1
21	1599909	Retainer	1
22	1599911	Bolt	1
23	1599910	Bracket	1
24	1599913	Bolt	1
	1599898	Kit-Gasket (2.6L Engine Complete)	1

THROTTLE CABLE LINKAGE (FIGURE 4-15) YANMAR DIESEL



BP130324

**THROTTLE CABLE LINKAGE
YANMAR DIESEL**

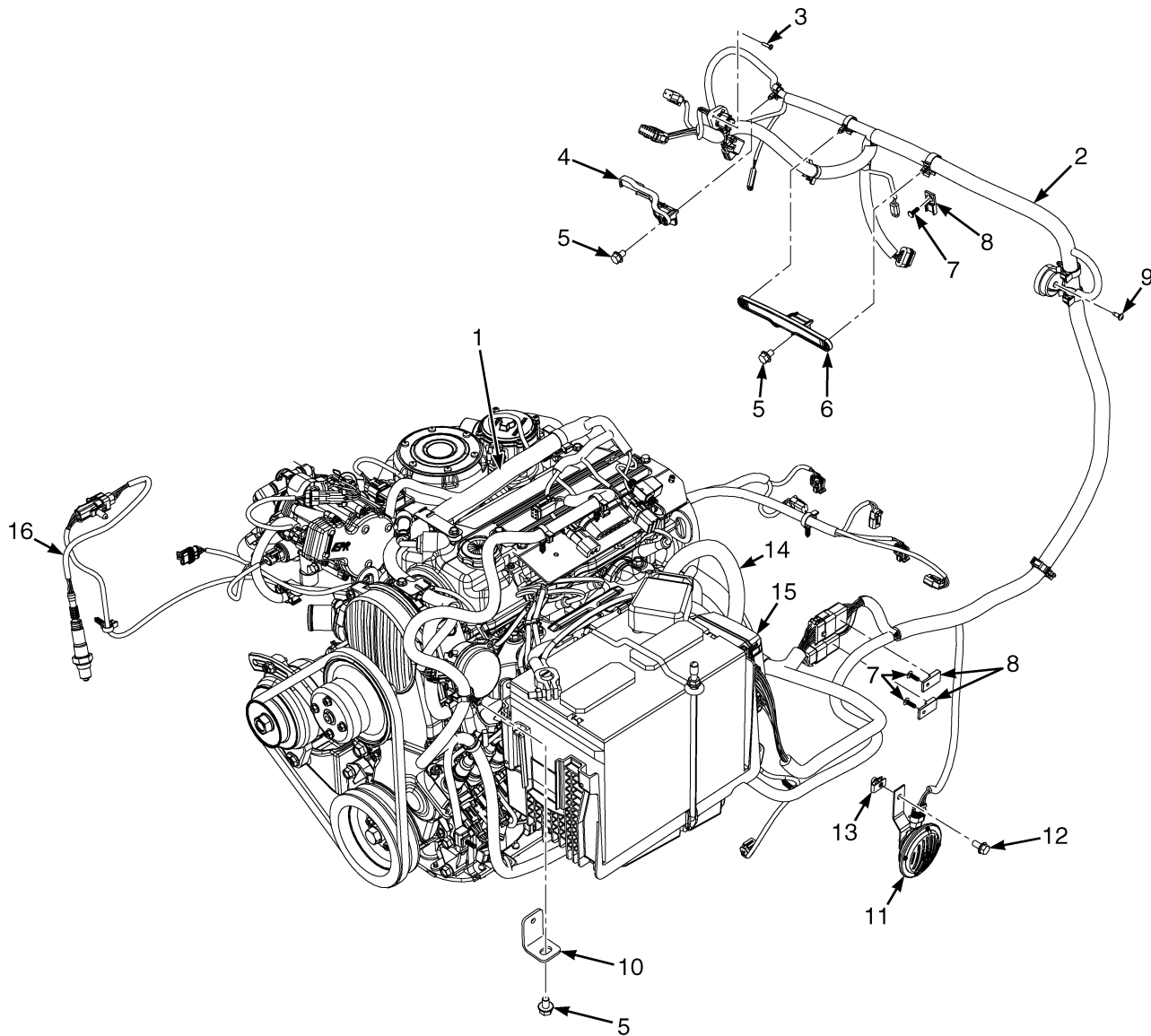
ITEM	PART NO.	DESCRIPTION	QTY
1	4014196	Bracket (Throttle Cable)	1
2	1538162	Bellcrank	1
3	1538782	Push Rod	1
4	2027949	Ball Joint	2
5	1538490	Push Rod	1
6	2308541	Nut	2
7	2067396	Throttle Cable	1
8	1542500	Bracket	1
9	1399802	Bolt	1
10	302400	Nut	1
11	1307884 1514429	Nut	2
12	126	Pin	1
13	1517361	Locking Ring Cotter Pin	2
14	128263	Pin	1
15	1480237	Nut	2
16	1527880	Capscrew	2
17	1527879	Capscrew	4
18	4014126	Bracket (Throttle Cable)	1
19	1530243	Insert	2
20	1562088	Clip	3
21	1542440	Clamp (Swivel)	1
22	1543691	Clamp (Swivel)	1
23	4034385	Bracket (Throttle Cable)	1
24	320156	Washer	1

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SECTION 5 ELECTRICAL SYSTEM

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ELECTRICAL ARRANGEMENT (FIGURE 5-1) MAZDA



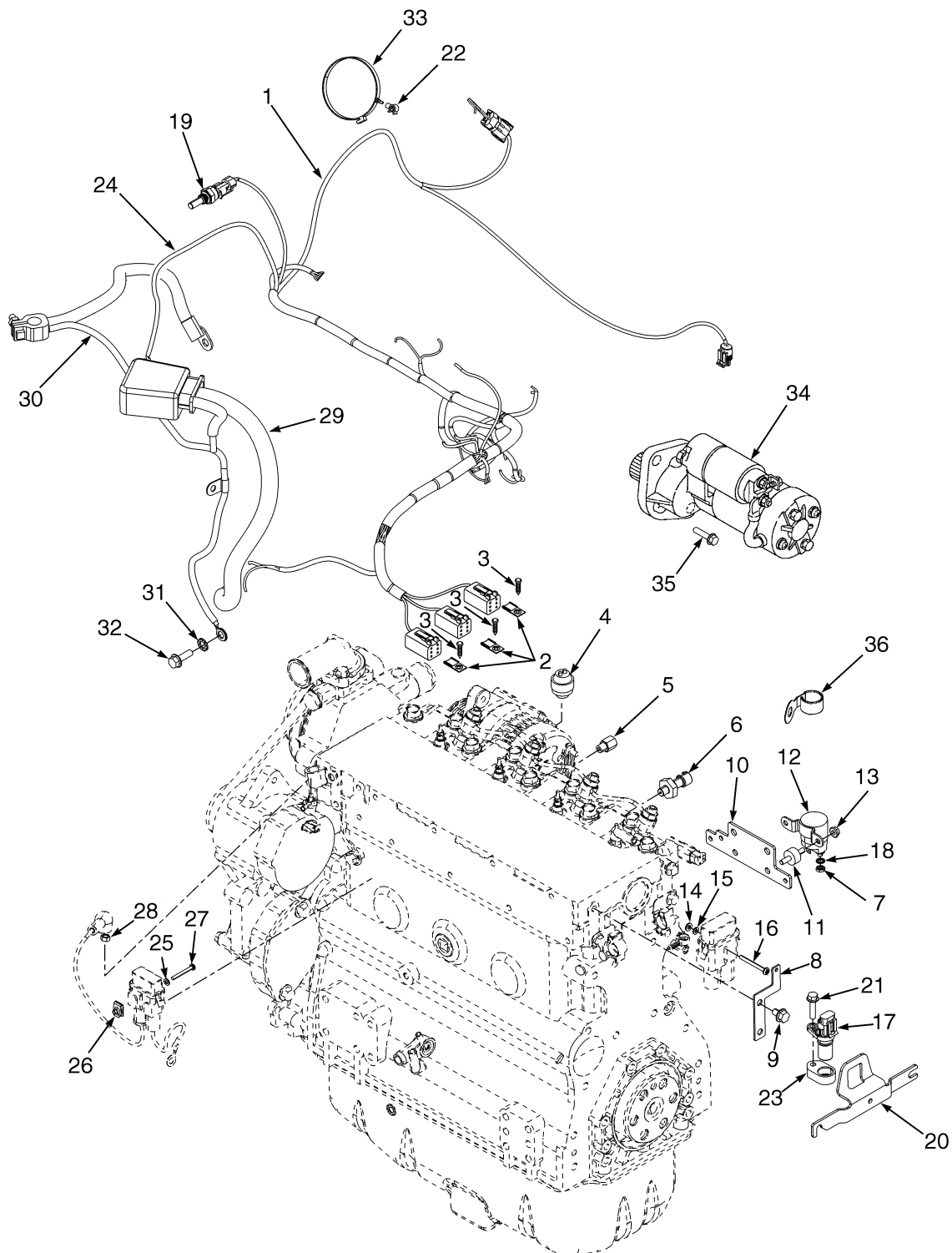
BP080998

**ELECTRICAL ARRANGEMENT
MAZDA**

ITEM	PART NO.	DESCRIPTION	QTY
1	4604873		
	4614155	Wire Harness (Powertrain) (☞Figure 5-9).....	1
2	a 4603285	Wire Harness (RH Chassis) (☞Figure 5-10, ☞Figure 5-11).....	1
2	b 4613581	Wire Harness (RH Chassis) (☞Figure 5-12, ☞Figure 5-13).....	1
3	1554902	Screw	2
4	2111004	Bracket (Left Hand)	1
5	1529366	Capscrew	3
6	2111005	Bracket (Right Hand)	1
7	1582464	Fastener	5
8	1500912	Clip	3
9	227155	Screw	1
10	4009450	Bracket	1
11	4016118	Horn	1
12	1527879	Capscrew	1
13	1480237	Nut	1
14	.....	Battery and Cables (☞Figure 5-6).....	1
15	.....	Power Distribution Module (☞Figure 5-6).....	1
16	1646456	Sensor (Oxygen)	1

FOOTNOTES:**a** → S/N A274V01843J**b** S/N A274V01844J →

ENGINE ELECTRICAL SYSTEM (FIGURE 5-2) YANMAR 2.6L DIESEL



HP081653

**ENGINE ELECTRICAL SYSTEM
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	4614029	Wire Harness (Powertrain) (☞ Figure 5-15).....	1
2	1500912	Clip	3
3	1582464	Fastener	3
4	1529257	Sensor (Air Flow Restriction)	1
5	367224	Adapter	1
6	1566654	Pressure Transducer Sensor (Oil Pressure)	1
7	1560678	Nut	2
8	1582150	Bracket	1
9	1529366	Capscrew	2
10	1582151	Bracket	1
11	1527562	Rubber Mount	2
12	1454967	Relay	1
13	1307884 1514429	Nut	2
14	320152	Washer	1
15	292676	Lockwasher	1
16	302015	Screw	1
17	1541231	Sensor (Input Speed, TISS) (RPM Speed)	1
17	296379	Washer	2
19	1515654	Temperature Sensor	1
20	1594055	Bracket	1
21	1527878	Capscrew	1
22	1542439	Clamp (Swivel)	1
23	1591454	Bracket	1
24	2065098	Wire Harness (Alternator) (☞ Figure 5-16).....	1
25	320154	Washer	1
26	1537551	Nut	1
27	302027	Screw	1
28	136687	Nut	1
29	2107181	Battery Cable (Positive)	1
29	148792	Terminal	1
29	16079	Terminal	1
29	1590368	Terminal	1
29	806426	E-Ring	1
29	1560091	Boot	1
29	1536304	Boot	1
29	1357268	Battery Cable (Red)	AR
30	2069226	Battery Cable (Negative)	1
30	148789	Terminal	1
30	16079	Terminal	1
30	1616122	Terminal	1
30	1564044	E-Ring	1
30	128408	Clamp	1
30	806426	E-Ring	1
30	1357533	Wire-Bulk (Black)	AR
31	296380	Washer	1
32	1529366	Capscrew	2
33	1502061	Clamp	1
34	1599845	Starter Assembly	1
34	1599847	Ball Bearing	1

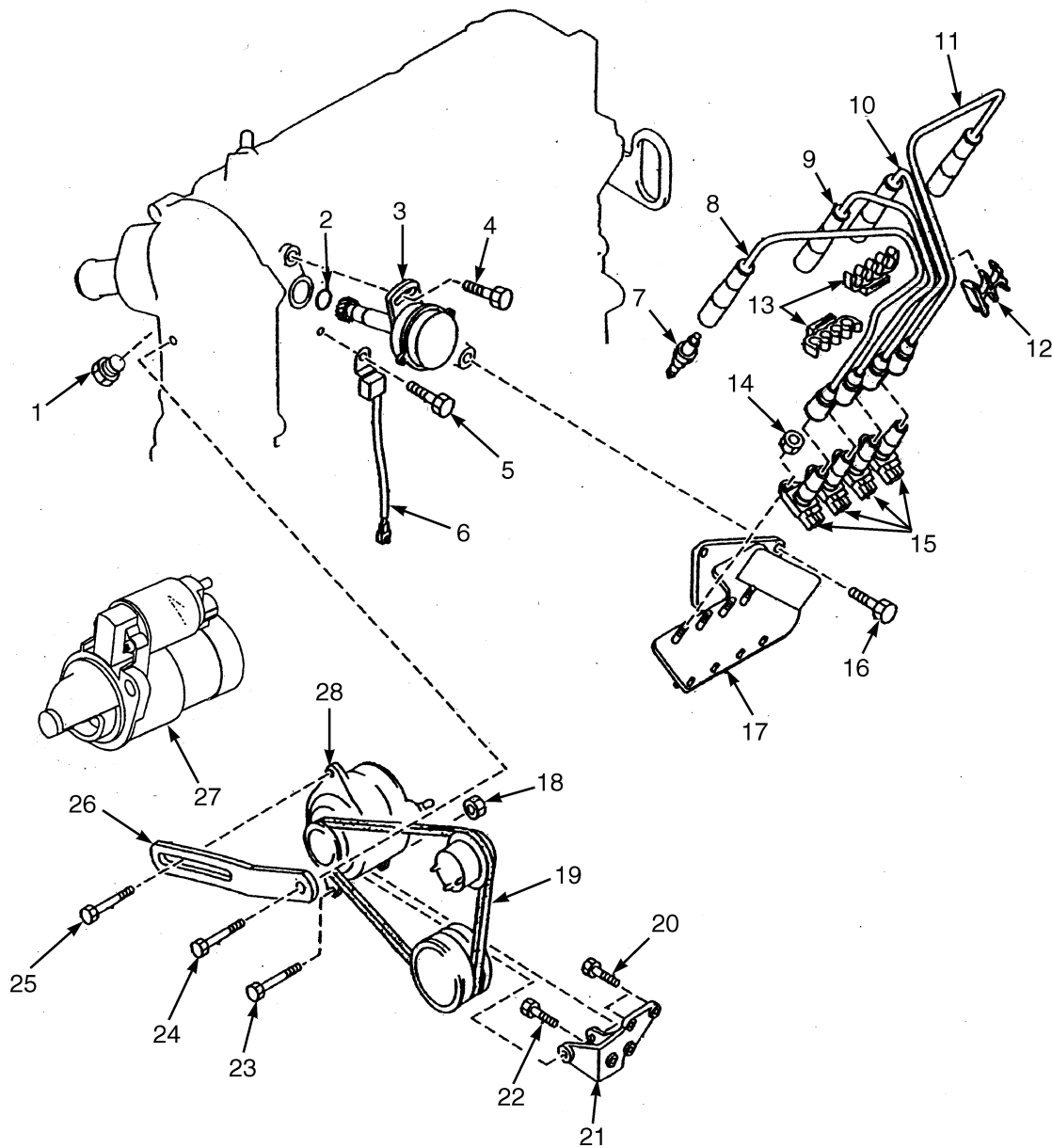
**ENGINE ELECTRICAL SYSTEM
YANMAR 2.6L DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
34	1599848	Ball Bearing	1
34	1599850	Screw	4
34	1599851	Brush	2
34	1599853	Brush Spring	4
34	1599860	Pinion	1
34	1599867	Housing	1
35	1528889	Capscrew	2
36	1599843	Clamp	2

NOTES

[illegible]

ENGINE ELECTRICAL COMPONENTS (FIGURE 5-3) MAZDA 2.0L, LPG — 2010 EMISSION COMPLIANT ENGINES



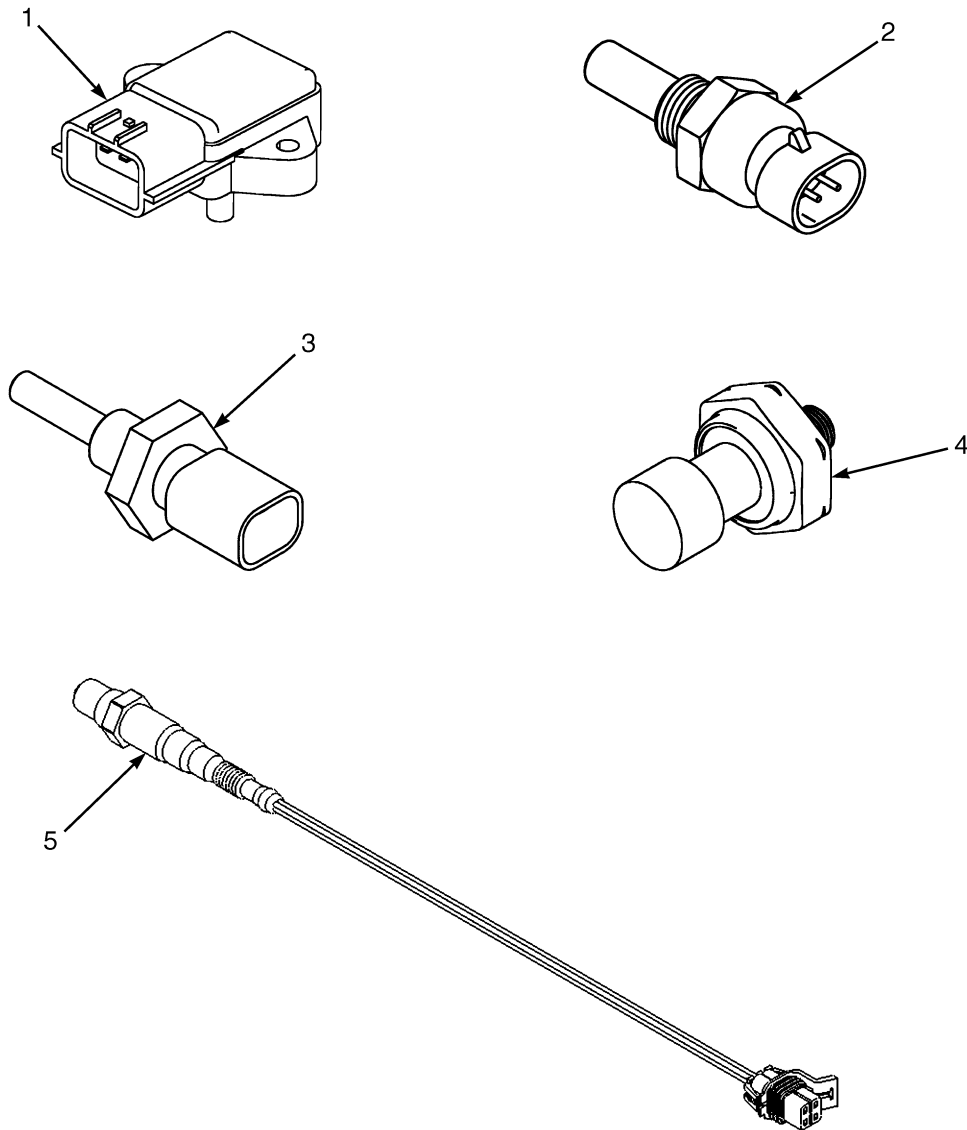
BP080563

ENGINE ELECTRICAL COMPONENTS
MAZDA 2.0L, LPG – 2010 EMISSION COMPLIANT ENGINES

ITEM	PART NO.	DESCRIPTION	QTY
1	1553708	Plug	1
2	326850	O-Ring	1
3	1652471	Camshaft Position Sensor	1
4	1361895	Bolt	1
5	1361898	Bolt	1
6	1652473	Condenser	1
7	1361837	Spark Plug	4
8	1652467	Ignition Cable	1
9	1652468	Ignition Cable	1
10	1652469	Ignition Cable	1
11	1652470	Ignition Cable	1
12	1652462	Support (Spark Plug Wires)	1
13	1652461	Support (Spark Plug Wires)	2
14	2066629	Nut	1
15	1652458	Ignition Coil	4
16	1652457	Bolt	2
17	1652459	Bracket (Ignition Coil)	1
18	1361890	Nut	1
19	1368841	V-Belt (2.0L 2400 RPM)	1
20	1361891	Bolt	3
21	1361846	Bracket	1
22	1361888	Bolt	1
23	1368844	Bolt	1
24	1361881	Bolt	1
25	326898	Bolt	1
26	1361845	Strap	1
27	1534424	Starter	1
28	4013365	Alternator	1
	a 1527884	Capscrew (Starter Mounting)	2
	a 2026608	Pressure Switch (Oil)	1
	1652460	Kit-Ignition Cable	1

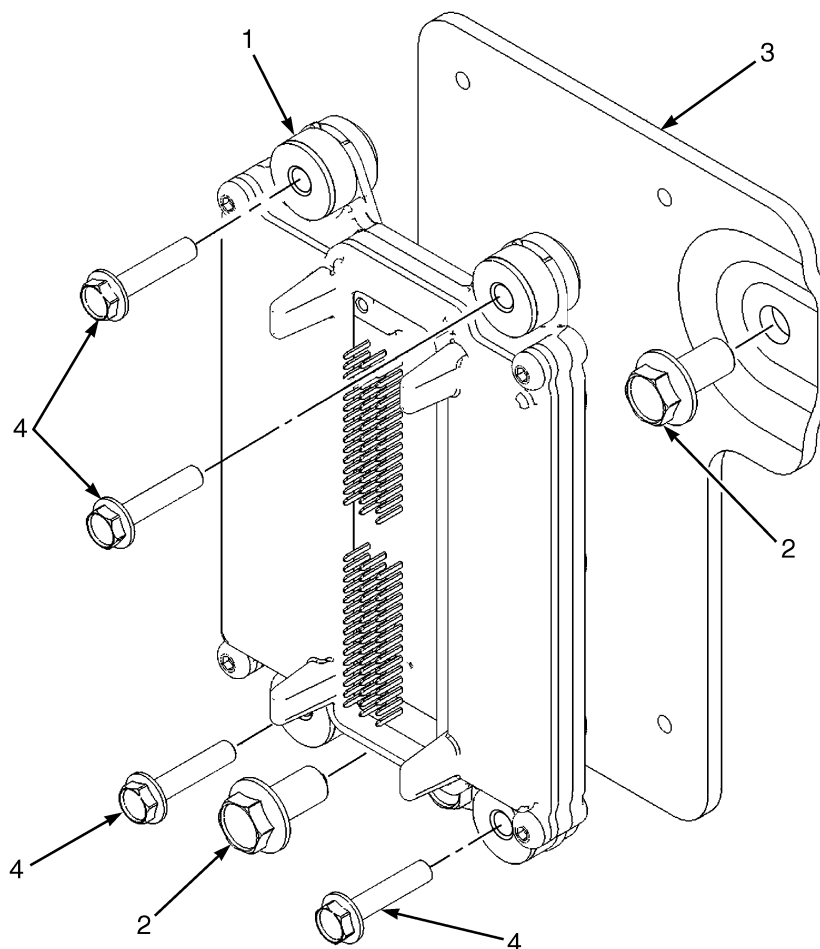
FOOTNOTES:**a** Not Illustrated

FUEL SYSTEM SENSORS (FIGURE 5-4) MAZDA 2.0L LPG — 2010 EMISSION COMPLIANT ENGINES



BP080544

ITEM	PART NO.	DESCRIPTION	QTY
1	1548352	Sensor (Boost, M.A.P.) (Boost)	1
2	1539962	Sensor (Air Temperature)	1
3	4001804	Sensor (Temperature)	1
4	4016652	Pressure Transducer	1
5	1646456	Sensor (Oxygen)	2

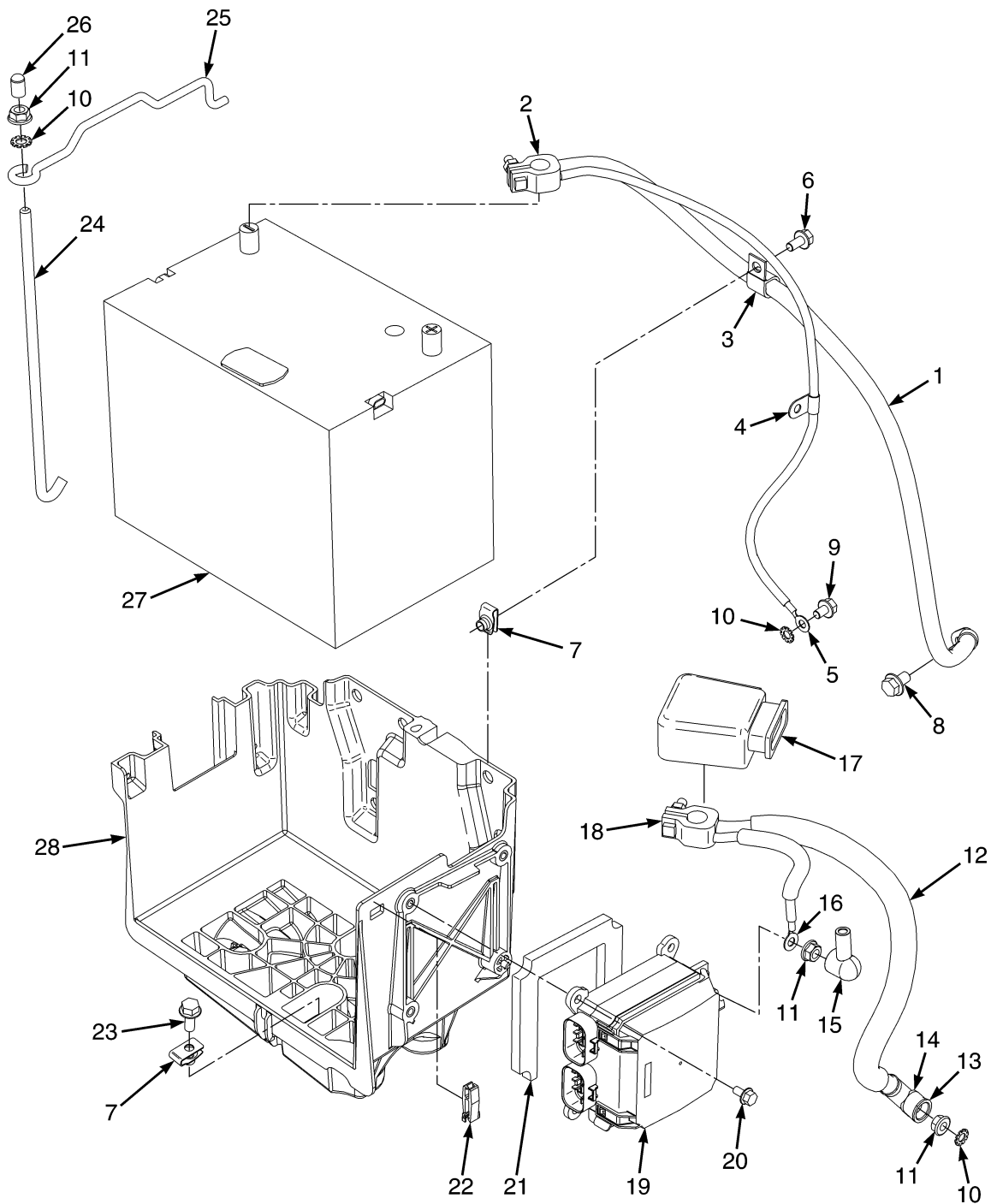
ENGINE CONTROL MODULE (FIGURE 5-5)
MAZDA 2.0L LPG

BP080543

ITEM	PART NO.	DESCRIPTION	QTY
1	a 4602495	Engine Control Module (2700 RPM)	1
1	b 4613691	Engine Control Module	1
2	1655237	Screw	2
3	1650513	Bracket	1
4	1531479	Capscrew	4

FOOTNOTES:**a** → S/N A274V01843J**b** S/N A274V01844J →

BATTERY AND CABLES (FIGURE 5-6)

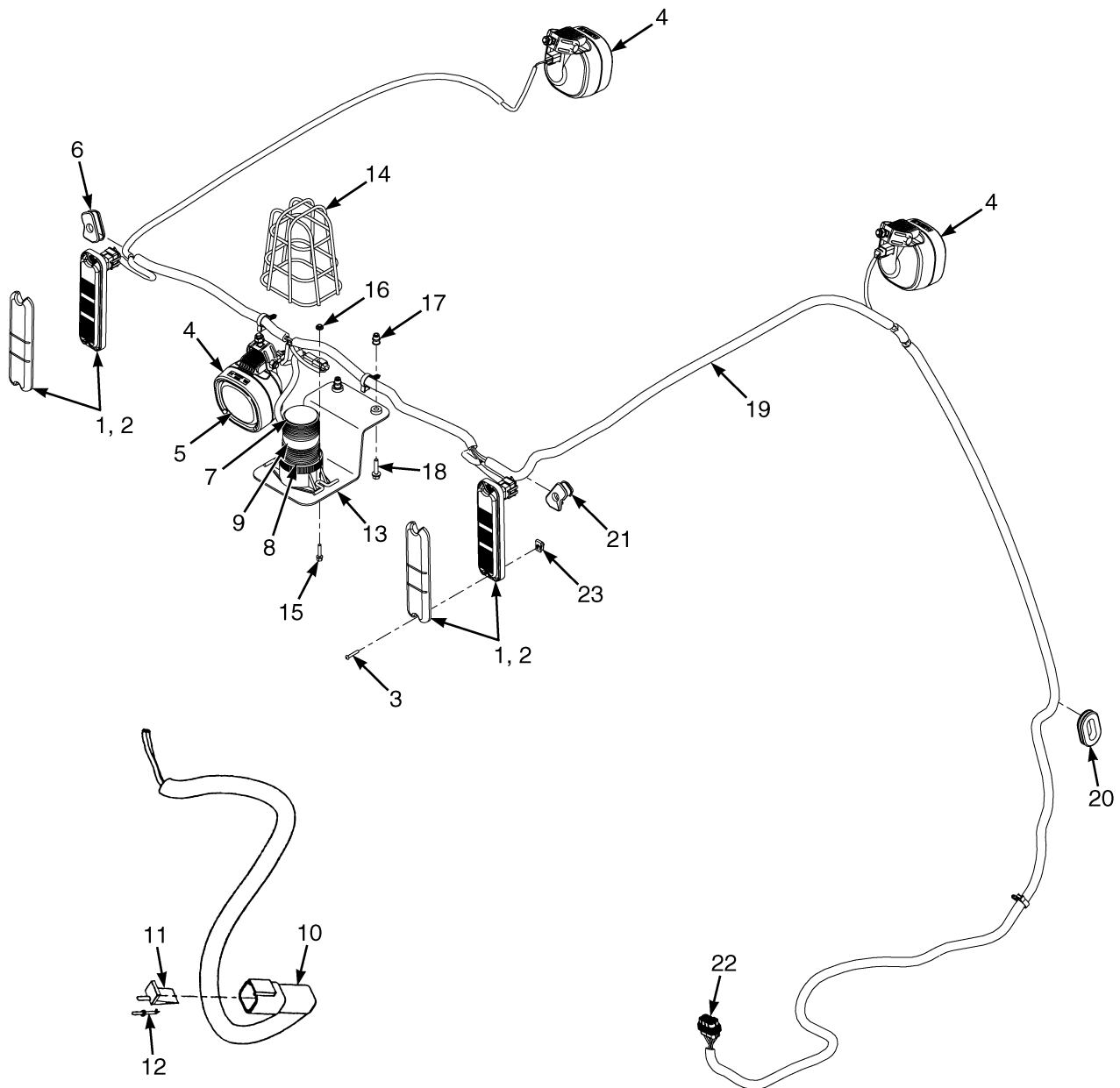


BP080999

BATTERY AND CABLES

ITEM	PART NO.	DESCRIPTION	QTY
1	2069225	Battery Cable	1
1	16078	Battery Cable	AR
1	1357533	Wire-Bulk	AR
2	148789	Terminal	1
3	128408	Clamp	1
4	1564044	E-Ring	1
5	806426	E-Ring	1
6	1527879	Capscrew	1
7	1480237	Nut	4
8	1556623	Bolt	1
9	1529366	Capscrew	1
10	296380	Washer	3
11	1382472		
	1502543	Nut (Flange)	4
12	2107181	Battery Cable (Positive)	1
12	1357268	Battery Cable (Red)	AR
12	1357535	Wire (Bulk)	AR
13	16079	Terminal	1
14	204223	Boot	1
15	1566146	Boot	1
16	806426	E-Ring	1
17	1536304	Boot	1
18	148792	Terminal	1
19	4603646	Fuse Box	1
20	1534417	Capscrew	3
21	1559928	Seal	1
22	1402883	Fuse Puller	1
23	1527880	Capscrew	3
24	2065745	Link (Battery Hold Down)	1
25	1641368	Link (Battery Hold Down)	1
26	1540805	Cap	1
27	1383331	Start Battery Wet	1
27	1643935	Start Battery Wet (Optional)	1
28	2090661	Battery Tray (Plastic)	1

LIGHTS (FIGURE 5-7) STOP, TAIL, TURN, BACKUP, AND STROBE — WITH OVERHEAD GUARD



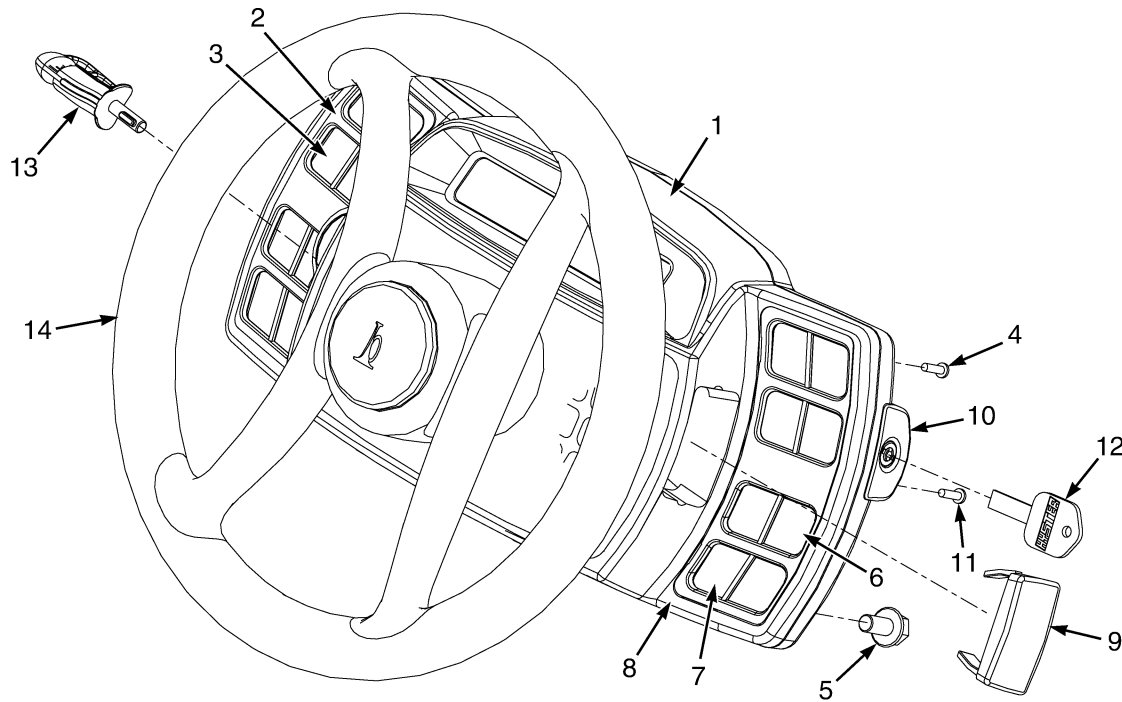
BP080951

LIGHTS

STOP, TAIL, TURN, BACKUP, AND STROBE – WITH OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	2056824	Brake/Backup Light (Stop, Turn, Tail, And Back-Up)	2
1	.....	Tail Light Base	2
2	2056826	Reflector (Tail)	2
3	1565125	Screw	4
4	2098083	Work Light (Rear) (Halogen)	1
4	2098084	Work Light (RH Front) (Halogen)	1
4	2098085	Work Light (LH Front) (Halogen)	1
5	2098082	Bulb (Halogen)	1
6	1560448	Grommet (LH Tail Light)	1
7	1537551	Nut	4
8	1654013	Strobe Light Assembly (LED)	1
9	1652290	Strobe Light (LED)	1
10	1561559	Connector	1
11	1561755	Connector (Secondary Lock)	1
12	1463138	Terminal Pin	2
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	4603286	Wire Harness	1
20	1539584	Grommet	1
21	1560447	Grommet (RH Tail Light)	1
22	.....	Connector Assembly (PDM)	1
22	4008684	Connector	1
22	1521188	Lock	1
22	1330281	Terminal	7
22	1323579	Seal	6
22	1402888	Seal	1

DISPLAY CLUSTER WITH STEERING WHEEL (FIGURE 5-8)



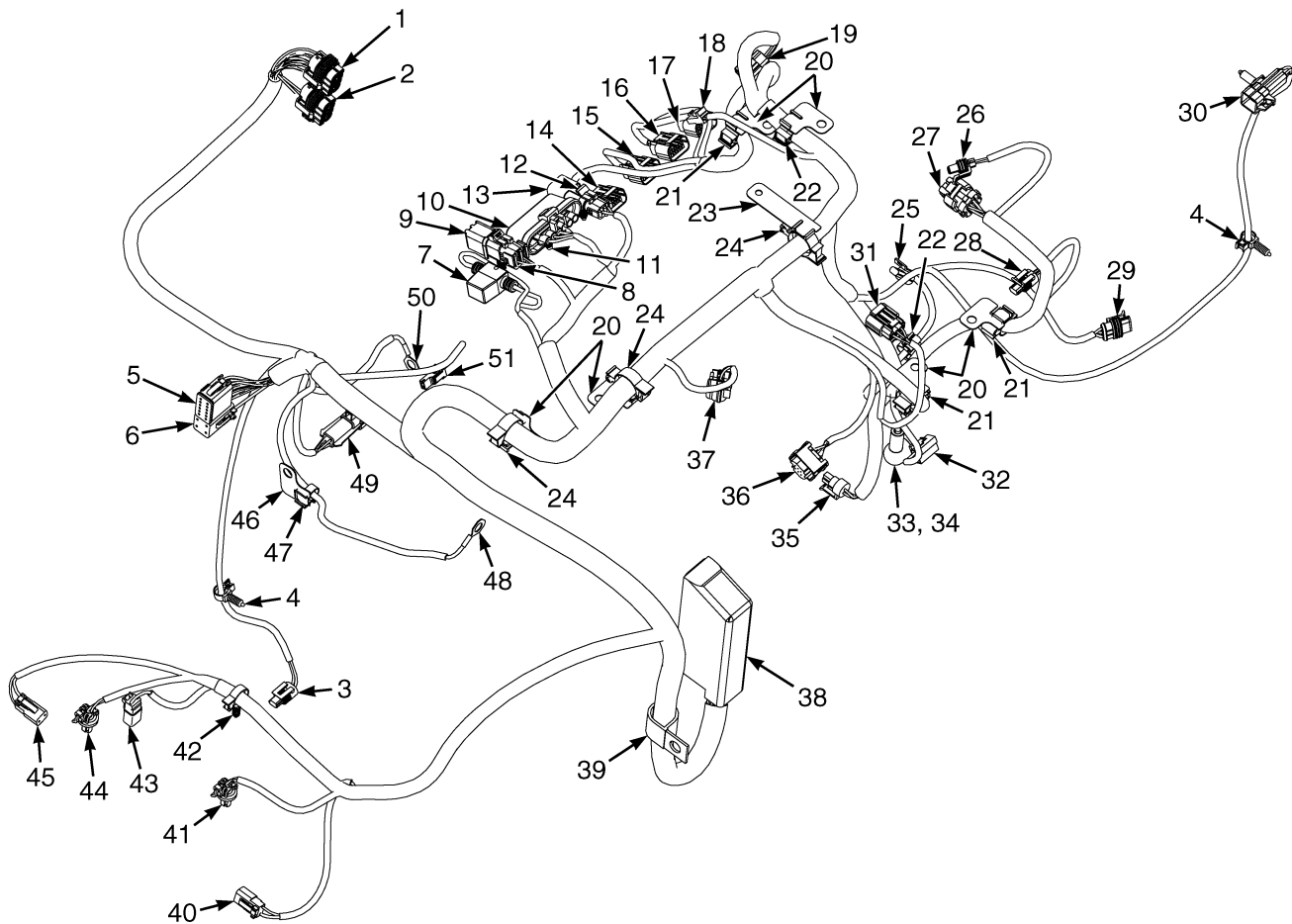
BP080952

ITEM	PART NO.	DESCRIPTION	QTY
1	4603879	Dash Display	1
2	2066485	Bezel	1
3	2069431	Label (Blank)	1
4	1554902	Screw	17
5	1527879	Capscrew	4
6	4603865	Label (Overlay RH Display Cluster)	1
7	4603866	Label (RH Display Cluster)	1
8	2066485	Bezel	1
9	2060032	Cover (Display Lever)	1
10	2057948	Ignition Switch (Without Keys)	1
11	1554902	Screw	3
12	1337197	Key Set	1
13	4604594	Lever (Detent Forward and Reverse) (Detented Forward and Reverse)	1
14	.....	Steering Wheel (☞ Figure 8-1).....	1

NOTES

[illegible]

WIRE HARNESS (FIGURE 5-9) MAZDA 2.0L LPG — POWERTRAIN



BP080950

WIRE HARNESS
MAZDA 2.0L LPG – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
	4604873		
	4614155	Wire Harness	1
1	.....	Connector Assembly (PDM 1)	1
1	4008685	Connector	1
1	1330281	Terminal	5
1	1521989	Terminal	3
1	1402888	Seal	4
1	1323579	Seal	4
1	1521188	Lock (Secondary Lock)	1
2	.....	Connector Assembly (PDM 2)	1
2	4008687	Connector	1
2	1327164	Seal	6
2	1330281	Terminal	2
2	1402888	Seal	2
2	1521188	Lock (Secondary Lock)	1
3	.....	Connector Assembly (Transmission Temperature)	1
3	4009253	Connector	1
3	1323576	Terminal	2
4	1509888	Clip	1
5	.....	Connector Assembly (Chassis Harness 1)	1
5	1493428	Connector (12-Way)	1
5	1330438	Terminal (Socket)	12
5	1500913	Connector (Secondary Lock)	1
6	.....	Connector Assembly (Chassis Harness 2)	1
6	1514602	Connector	1
6	1330439	Plug	2
6	1554359	Terminal	2
6	1514603	Connector (Secondary Lock)	1
7	.....	Connector Assembly (Max Fuse)	1
7	4007984	Connector (Fuse Holder)	1
7	1650520	Terminal	2
7	1382694	Fuse Connector	2
8	.....	Connector Assembly (Diagnostic)	1
8	1378652	Connector	1
8	1650522	Terminal	2
9	1547482	Connector (Cap)	1
10	.....	Cap	1
11	.....	Connector Assembly (Fuse Holder)	1
11	1327959	Connector	1
11	1330281	Terminal	4
11	1491818	Seal	4
11	1330297	Lock (Secondary Lock)	1
12	.....	Connector Assembly (ECU Test Port)	1
12	1465468	Connector	1
12	1504197	Terminal	2
12	1491818	Seal	2
13	1465469	Connector (Cap)	1
14	.....	Connector Assembly (Coil 3)	1
15	.....	Connector Assembly (Coil 1)	1
16	.....	Connector Assembly (Coil 2)	1

WIRE HARNESS

MAZDA 2.0L LPG – POWERTRAIN

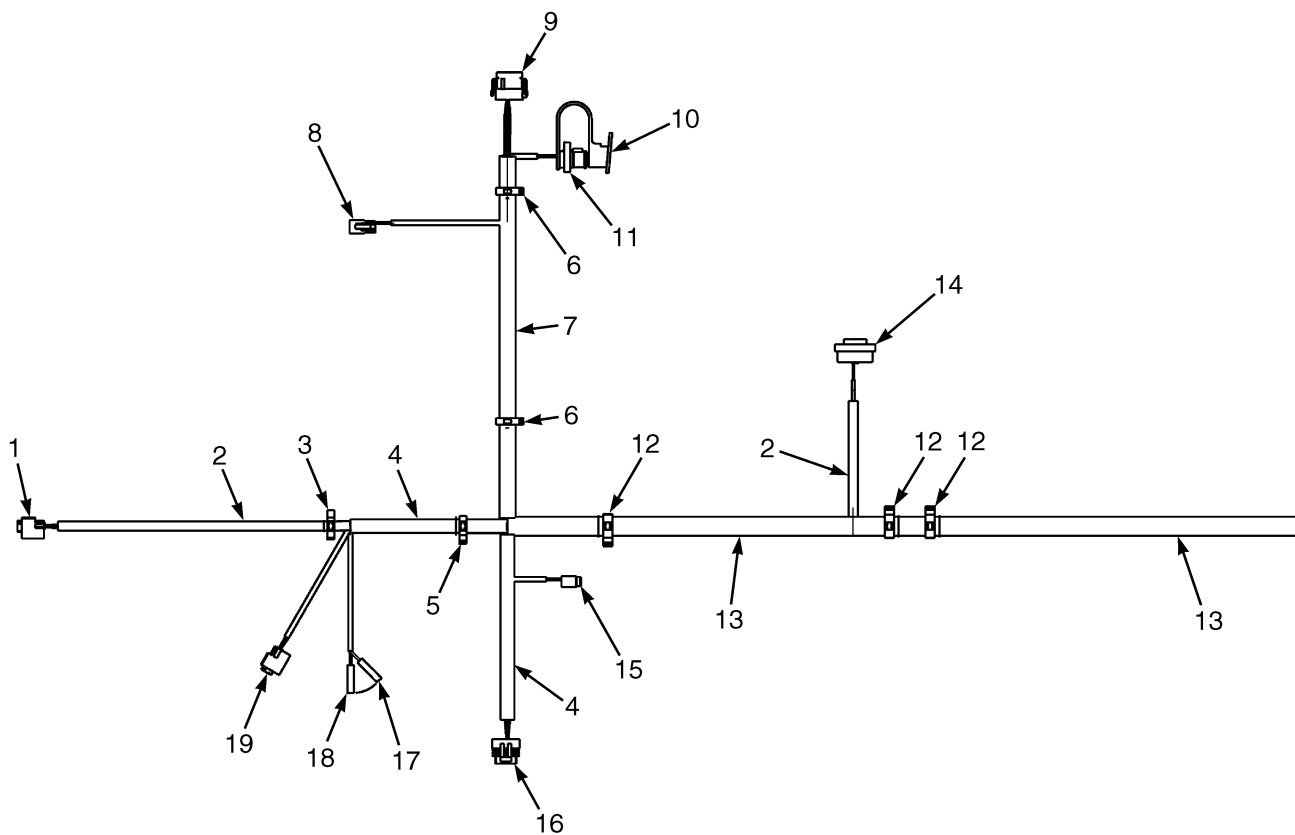
ITEM	PART NO.	DESCRIPTION	QTY
17	.....	Connector Assembly (Coil 4)	1
18	.....	Connector Assembly	1
19	.....	Connector Assembly (Cam Sensor)	1
20	1532761	Clip	7
21	1532776	Clip	3
22	1532775	Clip	2
23	1558226	Clip	1
24	1532778	Clip	3
25	.....	Connector Assembly (Engine Coolant Temperature)	1
25	1323586	Connector	1
25	1532571	Terminal	2
26	.....	Connector Assembly (LP Lockoff)	1
26	1539872	Connector	1
26	1330355	Terminal	2
26	1330356	Seal	2
27	.....	Connector Assembly (ERP Interface)	1
27	1641934	Connector	1
27	1561049	Connector	4
27	2035276	Connector	1
28	.....	Connector Assembly (LP Temperature)	1
28	1402607	Electrical Connector	1
28	1323576	Terminal	2
29	.....	Connector Assembly (LPG Low Pressure)	1
29	1547629	Connector	1
29	1508232	Terminal	3
29	2060555	Wire Seal	3
30	.....	Connector Assembly	1
30	1498424	Housing	1
30	1653508	Terminal (Gold)	4
30	1476108	Wire Seal	4
31	.....	Connector Assembly (Map Sensor)	1
31	1560441	Connector Body	1
32	.....	Connector Assembly (Alternator)	1
32	1308259	Connector Body	1
32	314775	Terminal	2
33	1520864	Boot	1
34	129888	E-Ring	1
35	.....	Connector Assembly (Oil Pressure)	1
35	1327957	Connector	1
35	1532571	Terminal	3
36	.....	Connector Assembly (Bosch Throttle)	1
36	1569973	Connector Body	1
36	1610975	Terminal	6
36	1533810	Seal	6
37	.....	Connector Assembly (Intake Air Temperature)	1
37	1482651	Connector Body	1
37	1482652	Terminal	2
37	1482653	Wire Seal	2
38	.....	Connector Assembly (ECU Connector)	1
38	1653510	Terminal (Gold)	56

WIRE HARNESS
MAZDA 2.0L LPG – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
39	321487	Clamp	1
40	.....	Connector Assembly (Forward Clutch)	1
40	1490242	Connector (2 Way)	1
40	1330438	Terminal (Socket)	2
40	1490243	Connector (Secondary Lock)	1
41	.....	Connector Assembly (Forward Pressure)	1
41	1603021	Connector	1
41	1548517	Terminal (Socket)	3
41	1548519	Seal	3
41	1603236	Connector (Secondary Lock)	1
42	1509890	Clip	1
43	.....	Connector Assembly (Transmission Enable)	1
43	1330438	Terminal (Socket)	2
43	1490243	Connector (Secondary Lock)	1
43	1490242	Connector (2 Way)	1
44	.....	Connector Assembly (Reverse Pressure)	1
44	1603021	Connector	1
44	1548517	Terminal (Socket)	3
44	1548519	Seal	3
44	1603236	Connector (Secondary Lock)	1
45	.....	Connector Assembly (Reverse Clutch)	1
45	1490242	Connector (2 Way)	1
45	1330438	Terminal (Socket)	2
45	1490243	Connector (Secondary Lock)	1
46	1558228	Clip	1
47	1532774	Clip	1
48	1402890	Ring Terminal	1
49	.....	Connector Assembly	1
49	1498424	Housing	1
49	1653508	Terminal (Gold)	4
49	1476108	Wire Seal	4
50	1402890	Ring Terminal	1
51	.....	Connector Assembly (Starter)	1
51	1581313	Connector	1
51	1581315	Terminal	1

WIRE HARNESS (FIGURE 5-10)

RH CHASSIS — SHEET 1 OF 2 (→ S/N A274V01843J)



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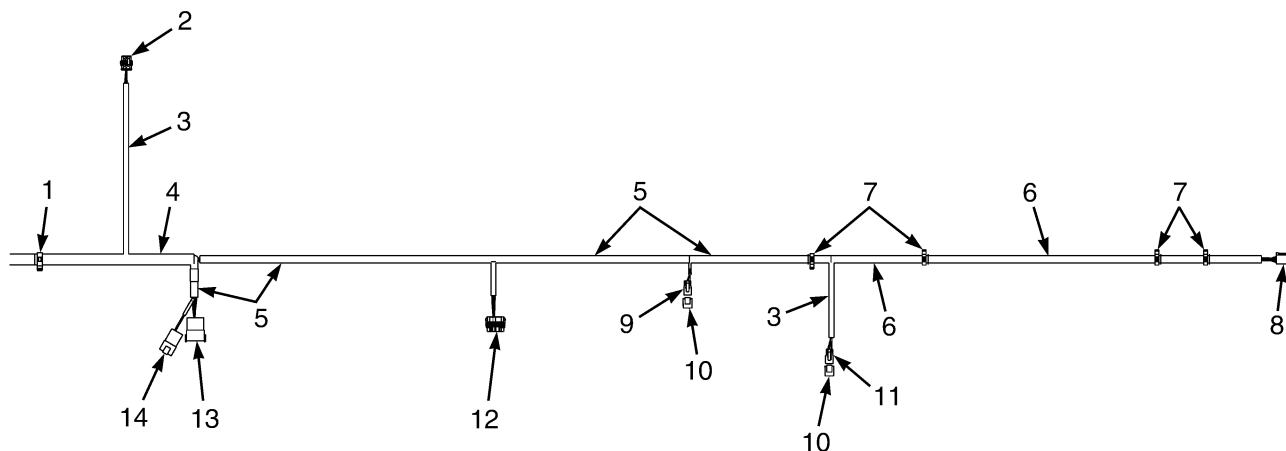
WIRE HARNESS

RH CHASSIS – SHEET 1 OF 2 (→ S/N A274V01843J)

ITEM	PART NO.	DESCRIPTION	QTY
	4603285	Wire Harness	1
1	.....	Connector Assembly (Brake Pedal)	1
1	1700460	Connector	1
1	1700461	Terminal	3
2	275493	Conduit	AR
3	1402816	Clip	1
4	275495	Conduit	AR
5	1402815	Clip	1
6	1500900	Clip	2
7	275496	Conduit	AR
8	.....	Connector Assembly (Horn Button)	1
8	1490242	Connector (2 Way)	1
8	1330438	Terminal (Socket)	2
8	1490243	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Display)	1
9	1525567	Connector	1
9	1463139	Terminal	9
9	1484377	Plug	3
9	1529046	Connector (Secondary Lock)	1
10	1566117	Dust Cap	1
10	1463849	Lubricant	AR
11	.....	Connector Assembly (Diagnostic)	1
11	1566116	Connector	1
11	1330438	Terminal (Socket)	3
11	1532664	Connector (Secondary Lock) (Secondary Lock)	1
12	1534329	Clip	3
13	275497	Conduit	AR
14	.....	Connector Assembly (Buzzer)	1
14	2101546	Buzzer	1
15	.....	Connector Assembly (Hydraulic Lockout Solenoid 1)	1
15	1484557	Connector	1
15	1463139	Terminal	2
15	1484558	Connector (Secondary Lock)	1
16	.....	Connector Assembly (Accelerator Pedal Sensor)	1
16	1525584	Connector	1
16	1532571	Terminal	6
17	.....	Connector Assembly (Brake Fluid)	1
17	1324310	Terminal	1
17	1324309	Sleeve	1
18	.....	Connector Assembly (Brake Fluid)	1
18	1324310	Terminal	1
18	1324309	Sleeve	1
19	.....	Connector Assembly (Park Brake)	1
19	1700460	Connector	1
19	1700461	Terminal	3

WIRE HARNESS (FIGURE 5-11)

RH CHASSIS — SHEET 2 OF 2 (→ S/N A274V01843J)



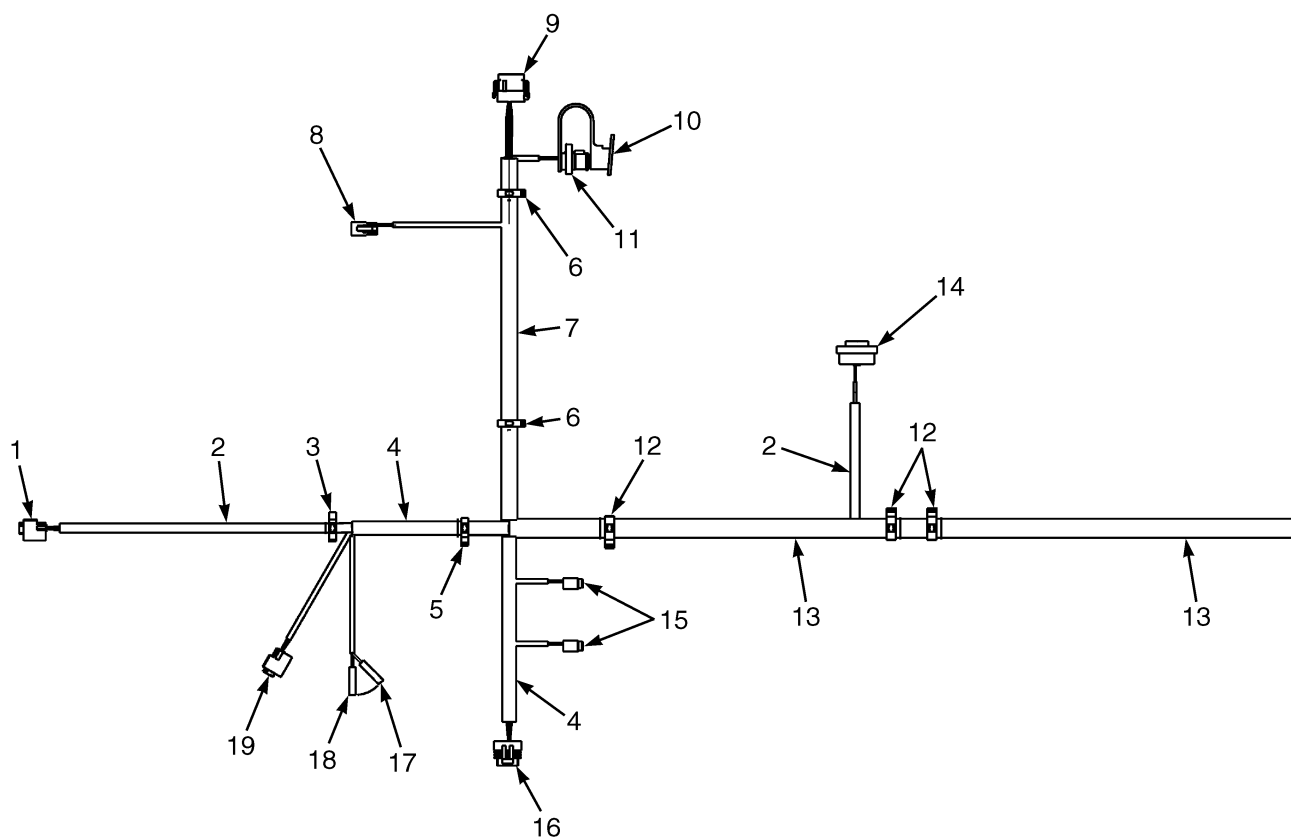
BP080994

ITEM	PART NO.	DESCRIPTION	QTY
	4603285	Wire Harness	1
1	1534329	Clip	1
2	.....	Connector Assembly (Horn)	1
2	1402878	Connector	1
2	1330355	Terminal	3
2	1330356	Seal	3
2	1521989	Terminal	1
2	1327164	Seal	1
3	275493	Conduit	AR
4	275497	Conduit	AR
5	275495	Conduit	AR
6	1699754	Conduit	AR
7	1509890	Clip	4
8	.....	Connector Assembly (To Seat Harness)	1
8	1531973	Connector	1
8	1463139	Terminal	4
8	1484377	Plug	2
8	1531974	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Backup Alarm)	1
9	1490242	Connector (2 Way)	1
9	1330438	Terminal (Socket)	2
9	1490243	Connector (Secondary Lock)	1
10	1626727	Connector (Endcap)	2
11	.....	Connector Assembly (Alternate Horn Button)	1
11	1490242	Connector (2 Way)	1
11	1330438	Terminal (Socket)	2

ITEM	PART NO.	DESCRIPTION	QTY
11	1490243	Connector (Secondary Lock)	1
12	.....	Connector Assembly (PDM)	1
12	4008686	Connector	1
12	1330281	Terminal	6
12	1323579	Seal	6
12	1402888	Seal	1
12	1521188	Lock (Secondary Lock)	1
13	.....	Connector Assembly (To Engine Harness)	1
13	1500925	Connector	1
13	1330437	Terminal (Pin)	12
14	.....	Connector Assembly (To Engine Harness)	1
14	1514597	Connector	1
14	1330439	Plug	2
14	866401	Terminal	2
14	1514598	Connector (Secondary Lock)	1
14	1352603	Connector (Secondary Lock)	1

WIRE HARNESS (FIGURE 5-12)

RH CHASSIS — SHEET 1 OF 2 (S/N A274V01844J →)



BP081147

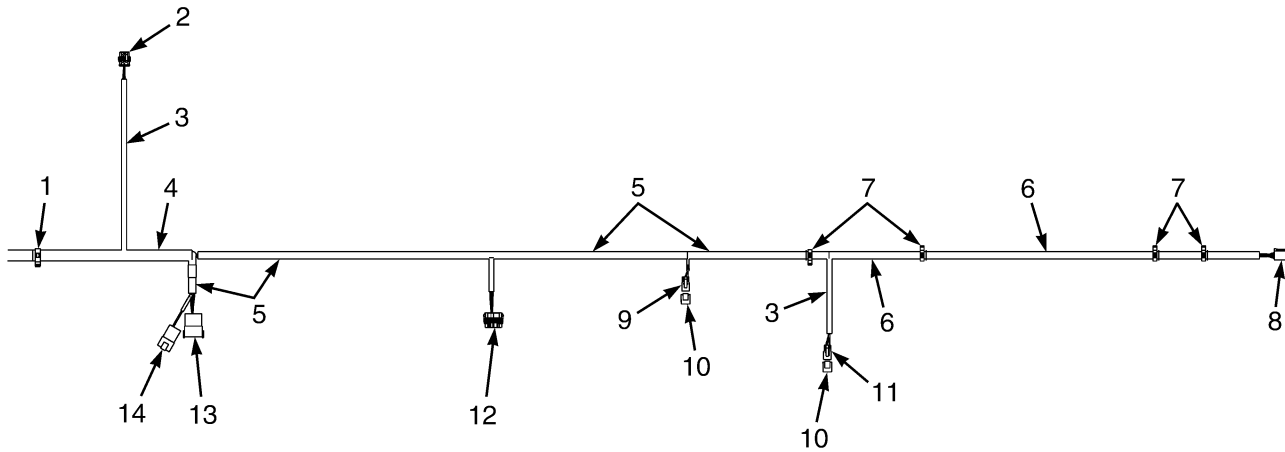
WIRE HARNESS

RH CHASSIS – SHEET 1 OF 2 (S/N A274V01844J →)

ITEM	PART NO.	DESCRIPTION	QTY
	4613581	Wire Harness	1
1	.....	Connector Assembly (Brake Pedal)	1
1	1700460	Connector	1
1	1700461	Terminal	3
2	275493	Conduit	AR
3	1402816	Clip	1
4	275495	Conduit	AR
5	1402815	Clip	1
6	1500900	Clip	2
7	275496	Conduit	AR
8	.....	Connector Assembly (Horn Button)	1
8	1490242	Connector (2 Way)	1
8	1330438	Terminal (Socket)	2
8	1490243	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Display)	1
9	1525567	Connector	1
9	1463139	Terminal	9
9	1484377	Plug	3
9	1529046	Connector (Secondary Lock)	1
10	1566117	Dust Cap	1
10	1463849	Lubricant	AR
11	.....	Connector Assembly (Diagnostic)	1
11	1566116	Connector	1
11	1330438	Terminal (Socket)	3
11	1532664	Connector (Secondary Lock)	1
12	1534329	Clip	3
13	275497	Conduit	AR
14	.....	Connector Assembly (Buzzer)	1
14	2101546	Buzzer	1
15	.....	Connector Assembly (Hydraulic Lockout Solenoid 1 and 2)	2
15	1484557	Connector	2
15	1463139	Terminal	4
15	1484558	Connector (Secondary Lock)	2
16	.....	Connector Assembly (Accelerator Pedal Sensor)	1
16	1525584	Connector	1
16	1532571	Terminal	6
17	.....	Connector Assembly (Brake Fluid)	1
17	1324310	Terminal	1
17	1324309	Sleeve	1
18	.....	Connector Assembly (Brake Fluid)	1
18	1324310	Terminal	1
18	1324309	Sleeve	1
19	.....	Connector Assembly (Park Brake)	1
19	1700460	Connector	1
19	1700461	Terminal	3

WIRE HARNESS (FIGURE 5-13)

RH CHASSIS — SHEET 2 OF 2 (S/N A274V01844J →)



BP080994

ITEM	PART NO.	DESCRIPTION	QTY
	4613581	Wire Harness	1
1	1534329	Clip	1
2	.....	Connector Assembly (Horn)	1
2	1402878	Connector	1
2	1330355	Terminal	3
2	1330356	Seal	3
2	1521989	Terminal	1
2	1327164	Seal	1
3	275493	Conduit	AR
4	275497	Conduit	AR
5	275495	Conduit	AR
6	1699754	Conduit	AR
7	1509890	Clip	4
8	.....	Connector Assembly (To Seat Harness)	1
8	1531973	Connector	1
8	1463139	Terminal	4
8	1484377	Plug	2
8	1531974	Connector (Secondary Lock)	1
9	.....	Connector Assembly (Backup Alarm)	1
9	1490242	Connector (2 Way)	1
9	1330438	Terminal (Socket)	2
9	1490243	Connector (Secondary Lock)	1
10	1626727	Connector (Endcap)	2
11	.....	Connector Assembly (Alternate Horn Button)	1
11	1490242	Connector (2 Way)	1
11	1330438	Terminal (Socket)	2

ITEM	PART NO.	DESCRIPTION	QTY
11	1490243	Connector (Secondary Lock)	1
12	.....	Connector Assembly (PDM)	1
12	4008686	Connector	1
12	1330281	Terminal	6
12	1323579	Seal	6
12	1402888	Seal	1
12	1521188	Lock (Secondary Lock)	1
13	.....	Connector Assembly (To Engine Harness)	1
13	1500925	Connector	1
13	1330437	Terminal (Pin)	12
14	.....	Connector Assembly (To Engine Harness)	1
14	1514597	Connector	1
14	1330439	Plug	2
14	866401	Terminal	2
14	1514598	Connector (Secondary Lock)	1
14	1352603	Connector (Secondary Lock)	1

WIRE HARNESS ADAPTER (FIGURE 5-14)
LOW FUEL PRESSURE

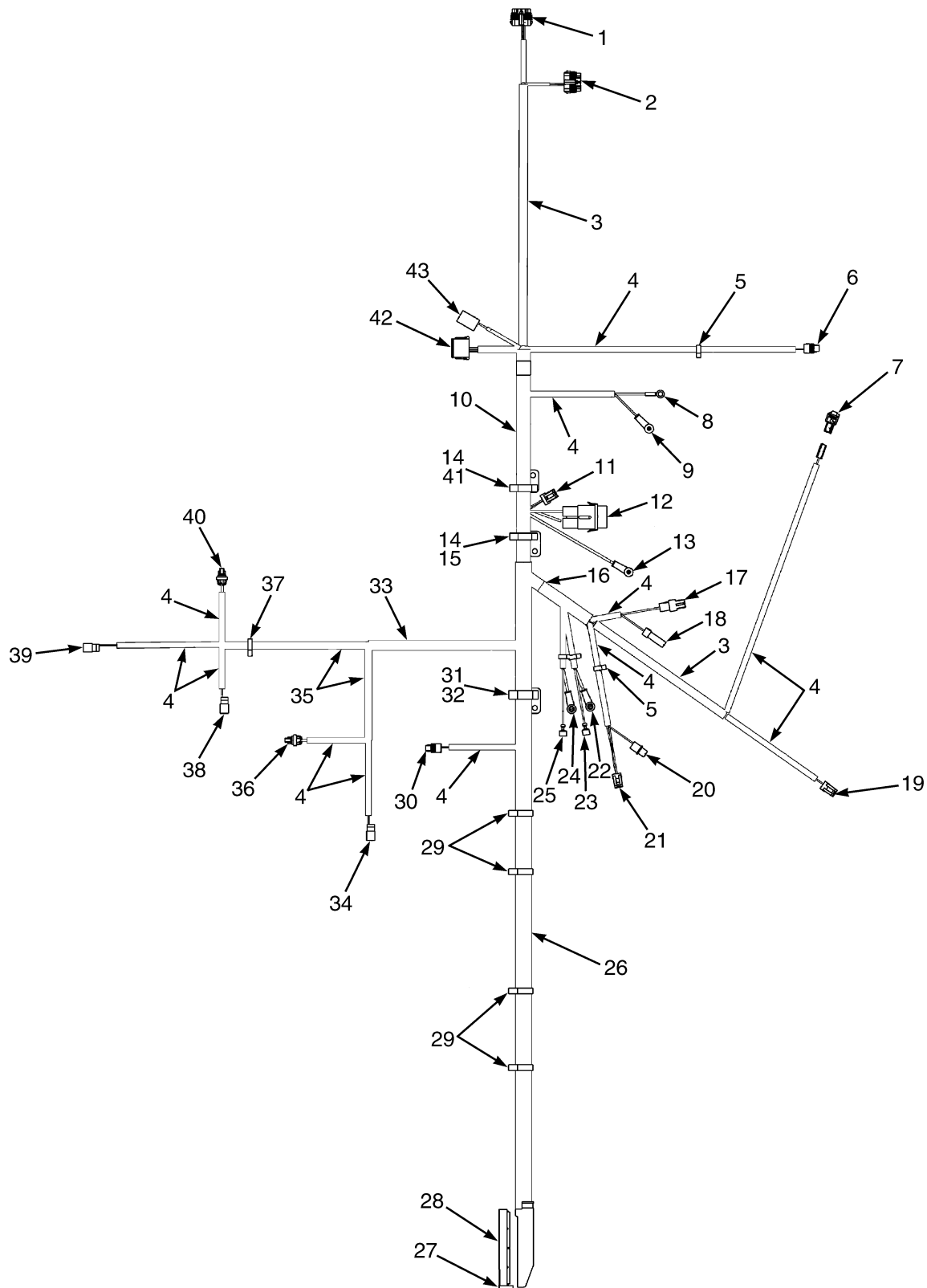
HP082028

ITEM	PART NO.	DESCRIPTION	QTY
	4602843	Wire Harness	1
1	.....	Connector Assembly (To LH Chassis Harness)	1
1	2795583	Connector	1
1	2787350	Pin Terminal	2
1	2069381	Plug	1
1	2060555	Wire Seal	2
2	.....	Connector Assembly (Low LPG Switch)	1
2	1329152	Plug	1
2	1329151	Terminal	1
2	1330281	Terminal	2
2	1402888	Seal	2

NOTES

[illegible]

WIRE HARNESS (FIGURE 5-15) YANMAR 2.6L DIESEL — POWERTRAIN



BP081124

WIRE HARNESS
YANMAR 2.6L DIESEL – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
	4614029	Wire Harness	1
1	.....	Connector Assembly (Power Distribution Module)	1
1	4008685	Connector	1
1	1521188	Lock	1
1	1330281	Terminal	6
1	1521989	Terminal	2
1	1402888	Seal	4
1	1323579	Seal	4
2	.....	Connector Assembly (Power Distribution Module)	1
2	4008687	Connector	1
2	1521188	Lock	1
2	1330281	Terminal	2
2	1521989	Terminal	1
2	1327164	Seal	5
2	1402888	Seal	2
2	1323579	Seal	1
3	275495	Conduit	AR
4	275496	Conduit	AR
5	1509888	Clip	4
6	.....	Connector Assembly (Transmission Temperature)	1
6	4009253	Connector	1
6	1323576	Terminal	2
7	.....	Connector Assembly (Alternator)	1
7	1547368	Connector Body	1
7	1565098	Terminal	2
8	.....	Connector Assembly (Starter Stud)	1
8	.....	149611	1
9	.....	Connector Assembly (Starter Solenoid)	1
9	1559049	Ring Terminal	1
9	190382	Boot	1
10	275498	Conduit	AR
11	.....	Connector Assembly (Engine RPM)	1
11	1546673	Connector	1
11	1323576	Terminal	3
12	.....	Connector Assembly (60 Amp Fuse)	1
12	1454860	Connector Body	1
12	1454829	Fuse (60 Amp)	1
12	1454862	Cover (With Seal)	1
12	1382695	Fuse Connector	2
12	1382694	Fuse Connector	2
13	.....	Connector Assembly (Glow Plug)	1
13	148609	E-Ring	1
13	190382	Boot	1
14	1532778	Clip	2
15	1532759	Clip	2
16	275497	Conduit	AR
17	.....	Connector Assembly (Fuel Shut Off)	1
17	1582484	Connector	1
17	2045134	Connector	1
17	1582485	Seal	1

WIRE HARNESS

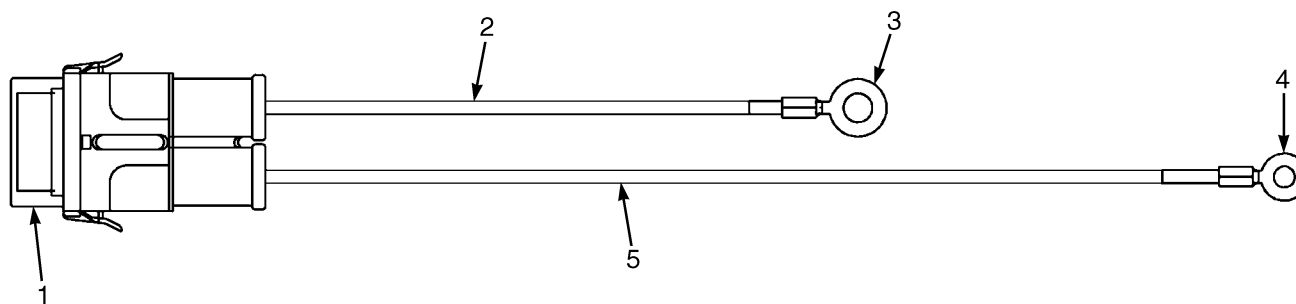
YANMAR 2.6L DIESEL – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
18	.....	Connector Assembly (Cold Start)	1
18	1582486	Connector	1
18	2098280	Connector	1
18	1582485	Seal	1
19	.....	Connector Assembly (Water Temperature)	1
19	1323586	Connector	1
19	1323576	Terminal	2
20	.....	Connector Assembly (Fuel and Water Separator)	1
20	1547369	Connector Body	1
20	1565098	Terminal	2
21	.....	Connector Assembly (Low Engine Oil)	1
21	1327957	Connector	1
21	1532571	Terminal	3
22	.....	Connector Assembly (Glow Plug Relay #30)	1
22	1560015	E-Ring	1
22	1532761	Clip	1
23	.....	Connector Assembly (Glow Plug Relay #86)	1
23	1521309	Connector Body	1
24	.....	Connector Assembly (Glow Plug Relay #87)	1
24	1560015	E-Ring	1
24	1532761	Clip	1
25	.....	Connector Assembly (Glow Plug Relay #85)	1
25	1521309	Connector Body	1
26	1540388	Conduit	AR
27	4025683	Connector Lock	1
28	.....	Connector Assembly (Engine Control Unit)	1
28	1641949	Connector	1
28	4025684	Strain Relief	1
28	1607549	Terminal	30
28	4023295	Terminal	11
28	4025685	Plug	49
29	4034685	Clip	4
30	.....	Connector Assembly (Fuel Level)	1
30	1476077	Connector	1
30	1323576	Terminal	2
31	1532779	Clip	1
32	1532759	Clip	2
33	275496	Conduit	AR
34	.....	Connector Assembly (Clutch Forward)	1
34	1490242	Connector (2 Way)	1
34	1490243	Connector	1
34	1330438	Terminal (Socket)	1
34	1363886	Terminal (Socket)	1
35	275494	Conduit	AR
36	.....	Connector Assembly (Forward Pressure)	1
36	1603021	Connector	1
36	1603236	Connector (Secondary Lock)	1
36	1548517	Terminal (Socket)	3
36	1548519	Seal	3
37	1509890	Clip	1

WIRE HARNESS
YANMAR 2.6L DIESEL – POWERTRAIN

ITEM	PART NO.	DESCRIPTION	QTY
38	.....	Connector Assembly (Transmission Enable)	1
38	1490242	Connector (2 Way)	1
38	1490243	Connector	1
38	1330438	Terminal (Socket)	1
38	1363886	Terminal (Socket)	1
39	.....	Connector Assembly (Clutch Reverse)	1
39	1490242	Connector (2 Way)	1
39	1490243	Connector	1
39	1330438	Terminal (Socket)	1
39	1363886	Terminal (Socket)	1
40	.....	Connector Assembly (Reverse Pressure)	1
40	1603021	Connector	1
40	1603236	Connector (Secondary Lock)	1
40	1548517	Terminal (Socket)	3
40	1548519	Seal	3
41	1532761	Clip	1
42	.....	Connector Assembly (To Chassis Harness)	1
42	1493428	Connector (12-Way)	1
42	1500913	Connector	1
42	1330438	Terminal (Socket)	12
43	.....	Connector Assembly (To Chassis Harness)	1
43	1514602	Connector	1
43	1514603	Connector	1
43	1554359	Terminal	2
43	1330439	Plug	1

WIRE HARNESS (FIGURE 5-16) **YANMAR 2.6L DIESEL — FUSED ALTERNATOR**



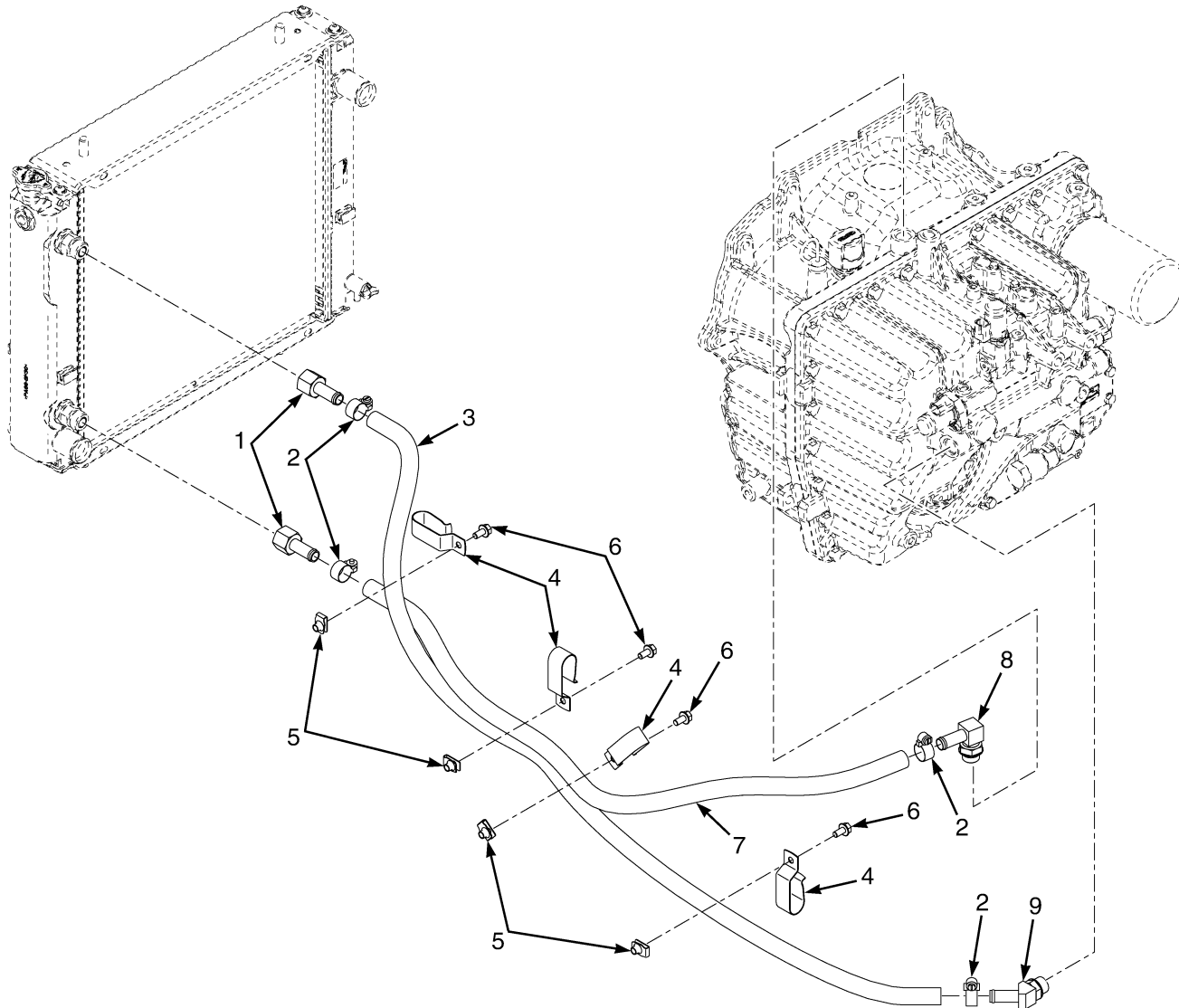
BP081125

ITEM	PART NO.	DESCRIPTION	QTY
	2065098	Wire Harness (Alternator)	1
1	.....	Connector Assembly (60 Amp Fuse)	1
1	1454829	Fuse (60 Amp)	1
1	1454862	Cover (With Seal)	1
1	1454827	Seal	2
1	1454828	Terminal	2
1	1454860	Connector Body	1
2	1495100	Cable-Bulk (FT) (Red)	AR
3	.....	Connector Assembly (Power Distribution Module)	1
3	1566145	E-Ring	1
4	.....	Connector Assembly (Alternator)	1
4	1560015	E-Ring	1
4	1566146	Boot	1
5	275494	Conduit	AR

**SECTION 6
TRANSMISSION**

DESCRIPTION	PAGE
CHARGE PUMP	6-18
COUNTER/REVERSE CLUTCH	
SINGLE SPEED TRANSMISSION	6-24
INPUT/FORWARD CLUTCH	
SINGLE SPEED TRANSMISSION	6-22
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TRANSMISSION MOUNT	
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TRANSMISSION COOLING (FIGURE 6-1) MAZDA 2.0L LPG

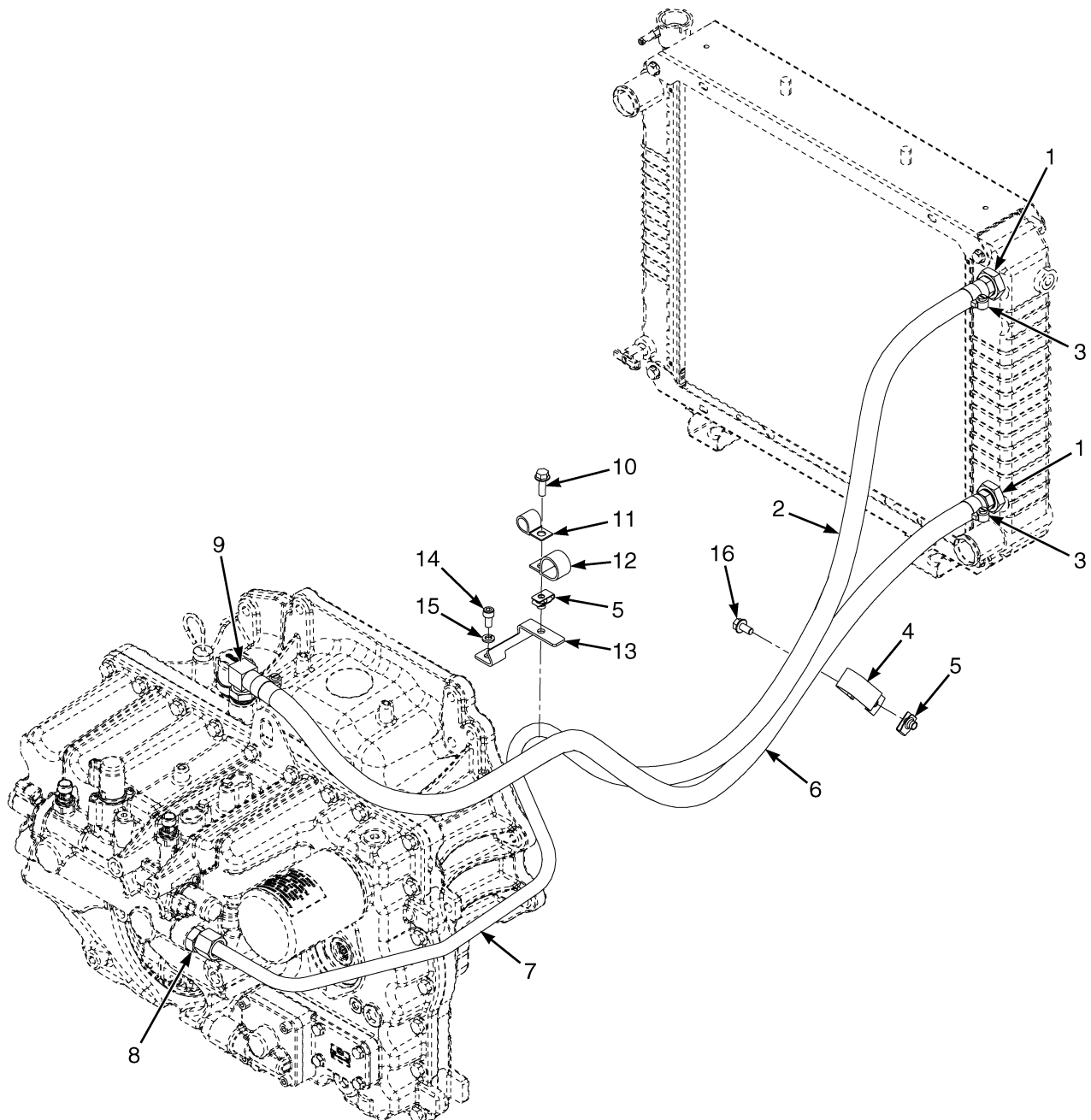


BP240177

TRANSMISSION COOLING
MAZDA 2.0L LPG**KEY:****A: Without Alternate Hose and Tube Assy****B: With Alternate Hose and Tube Assy**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1691916	Fitting	2	..
1	2109875	Tube Assy	..	1
2	130845	Clamp	4	4
3	2109723	Hose	1	..
3	2109869	Hose	..	1
4	1562648	Clip	4	3
5	1480237	Nut	4	3
6	1527879	Capscrew	4	3
7	2109692	Hose	1	1
8	222512	Fitting	1	1
8	16485	O-Ring	1	1
9	222504	Fitting	1	1
9	16485	O-Ring	1	1

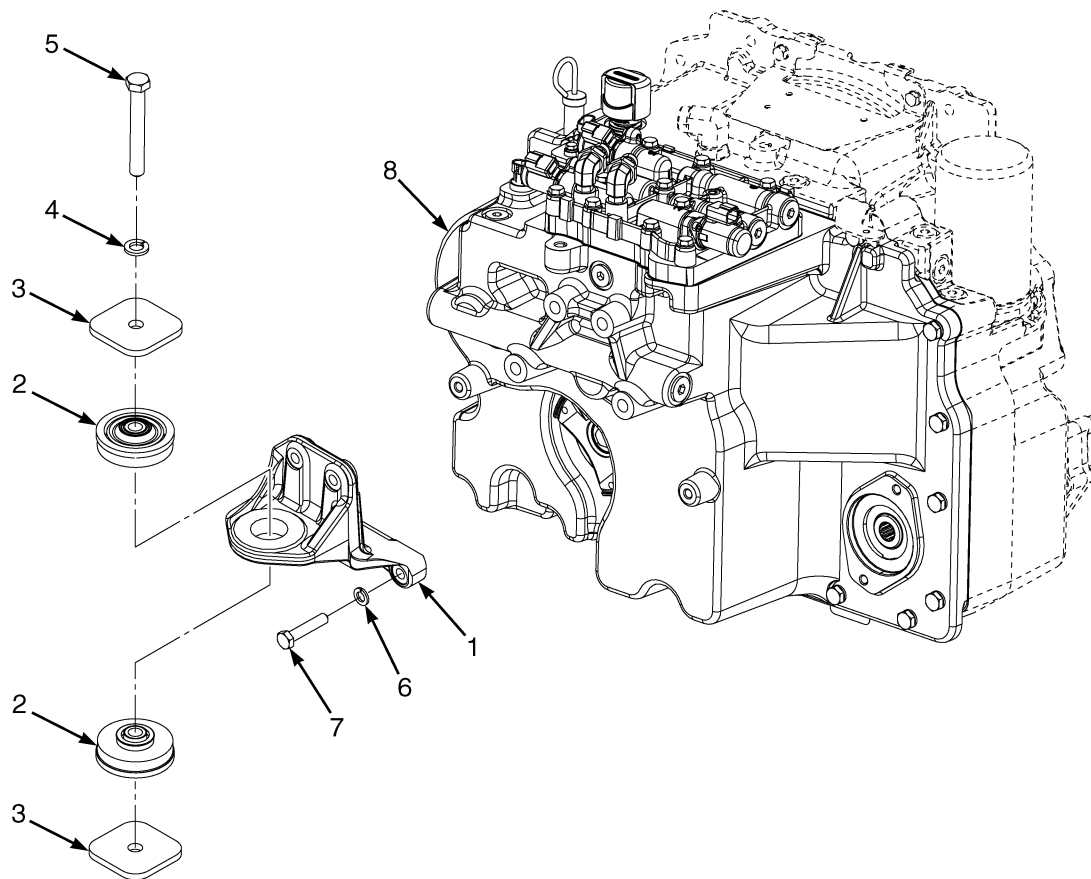
TRANSMISSION COOLING (FIGURE 6-2) YANMAR DIESEL



BP240199

**TRANSMISSION COOLING
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1673198	Fitting	2
1	222493	Fitting	1
1	16484	O-Ring	1
2	2109875	Tube Assy	1
3	130845	Clamp	4
4	1562648	Clip	1
5	1480237	Nut	2
6	4614110	Hose	1
7	4614383	Tube Assy	1
8	1486749	Fitting	1
9	222512	Fitting	1
10	1510113	Capscrew	1
11	128408	Clamp	1
12	178119	Clamp	1
13	1694547	Bracket	1
14	296009	Capscrew	1
15	292681	Lockwasher	1
16	1527879	Capscrew	1

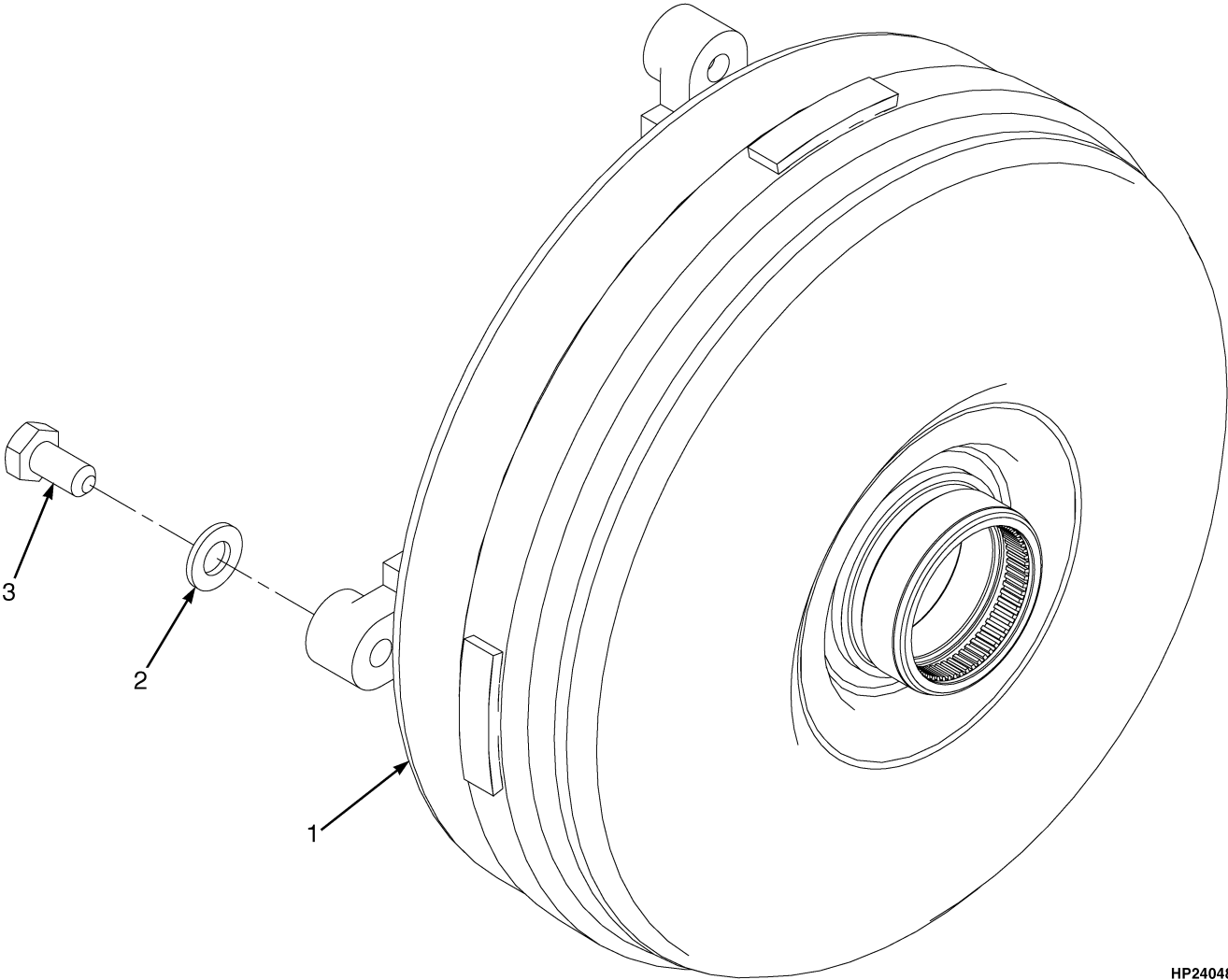
**TRANSMISSION MOUNT (FIGURE 6-3)
SINGLE SPEED**

BP240180

**TRANSMISSION MOUNT
SINGLE SPEED**

ITEM	PART NO.	DESCRIPTION	QTY
1	1697672	Bracket	1
2	2070147	Isolator	2
3	1566329	Washer	2
4	292685	Lockwasher	1
4	320165	Washer (Alternate Part)	1
5	293697	Capscrew	1
6	292683	Lockwasher	4
7	292531	Capscrew	4
8	4009901	Transmission Assy	1
	264134	Loctite	AR

TORQUE CONVERTER (FIGURE 6-4)



HP240482

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1553122	Torque Converter	1
1	b 1553123	Torque Converter	1
2	296420	Washer	4
3	1541921	Capscrew	4
	360387	Loctite	AR
	251979	Lubricant	AR

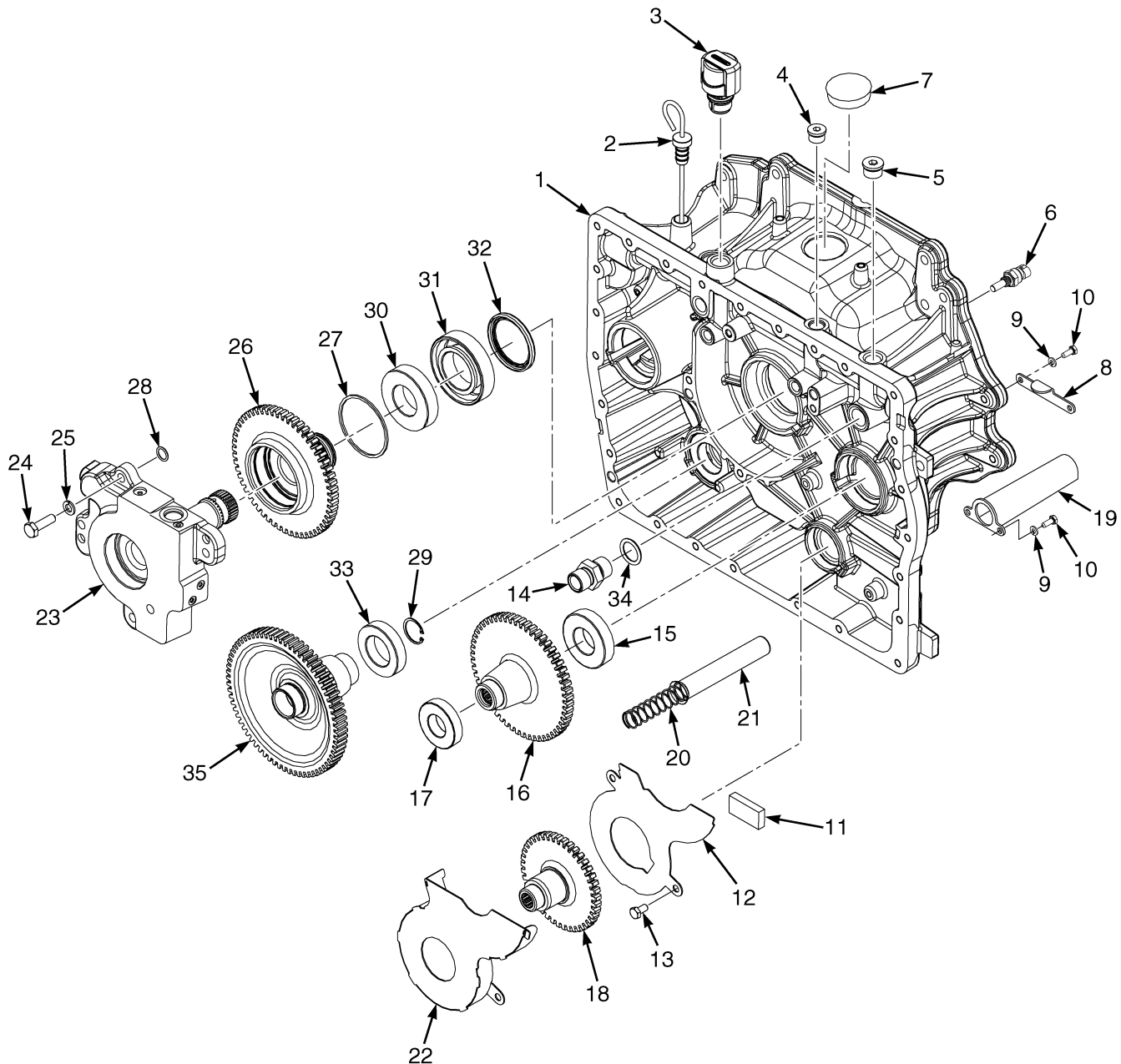
FOOTNOTES:

- a** Mazda Engine
- b** Yanmar Engine

NOTES

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TORQUE CONVERTER HOUSING AND ATTACHING PARTS (FIGURE 6-5) SINGLE SPEED, GEAR DRIVE

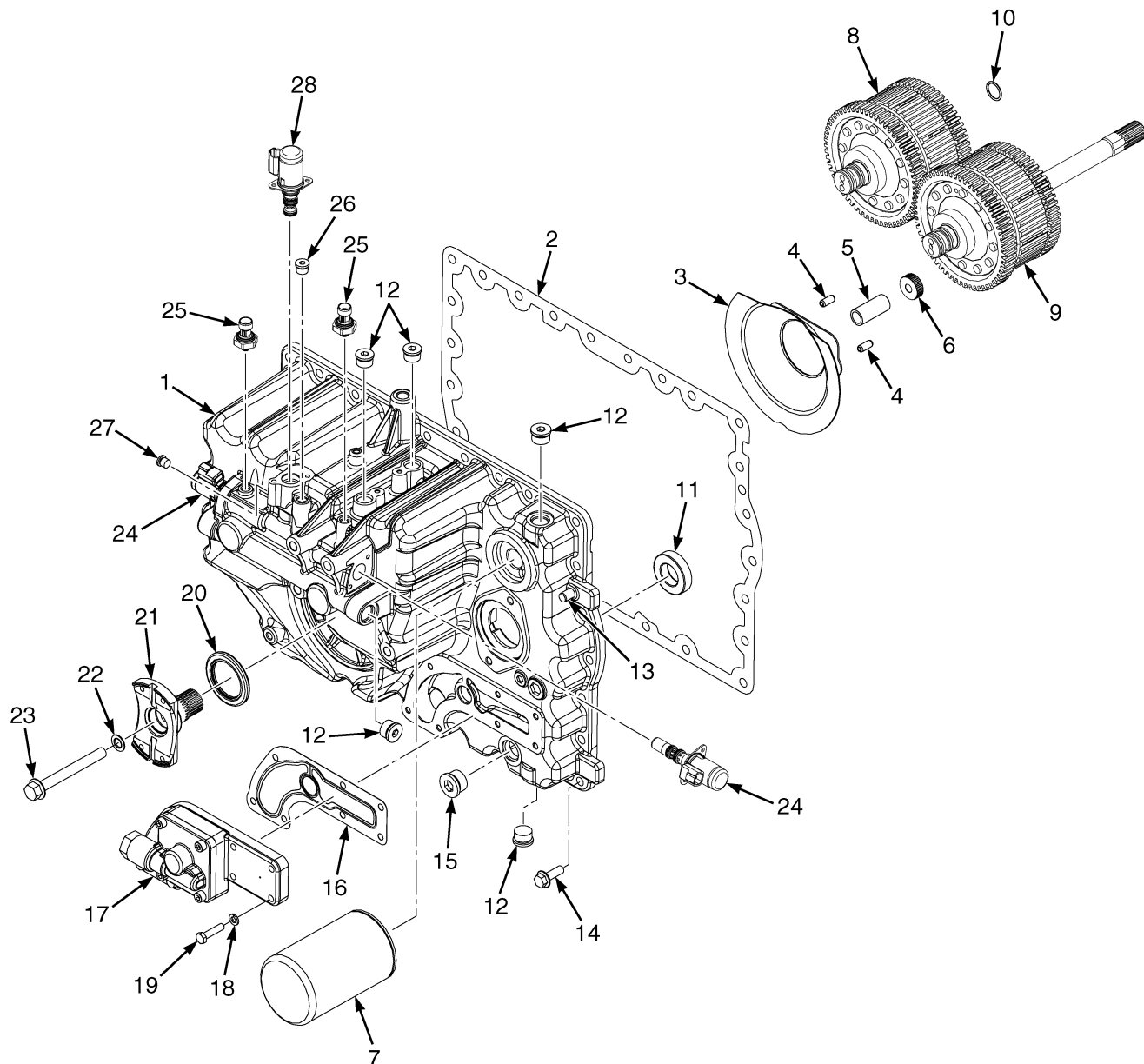


BP240198

TORQUE CONVERTER HOUSING AND ATTACHING PARTS
SINGLE SPEED, GEAR DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
	4009901	Transmission Assy	1
1	1675649	Converter Housing	1
2	4015019	Dipstick	1
3	1632741	Breather	1
3	16486	O-Ring	1
4	235691	Fitting	1
5	233693	Fitting	3
5	16485	O-Ring	1
6	1515654	Temperature Sensor	1
7	1703644	Plug	1
8	1687847	Cover Plate (Torque Converter Bottom Housing)	1
9	292680	Washer	3
10	292500	Capscrew	3
11	334560	Magnet	1
12	1676519	Cover (PTO Rear Gear)	1
13	287851	Capscrew	2
14	1558515	Fitting	1
15	43207	Ball Bearing	1
16	4006034	Drive Gear (Hydraulic Pump)	1
17	44307	Ball Bearing	1
18	4006035	Drive Gear (Charge Pump)	1
19	1702520	Cover (Suction Screen)	1
20	334450	Screen	1
21	1688598	Spring	1
22	1686782	Cover (PTO Gears)	1
23	1675647	Housing (Stator Support) (☞Figure 6-10).....	1
24	287860	Capscrew	4
25	388049		
	292682	Lockwasher	4
26	4006033	Drive Gear	1
27	1544218	Sealing Ring	1
28	1553475	O-Ring	2
29	58916	Snap Ring	1
30	43208	Ball Bearing	2
31	1544216	Bearing	1
32	1544217	Oil Seal (Torque Converter)	1
33	44308	Ball Bearing	1
34	280157	O-Ring AS568A-120	1
35	1684389	Transmission Gear (Out Put)	1

TRANSMISSION HOUSING AND ASSEMBLY (FIGURE 6-6) SINGLE SPEED, GEAR DRIVE



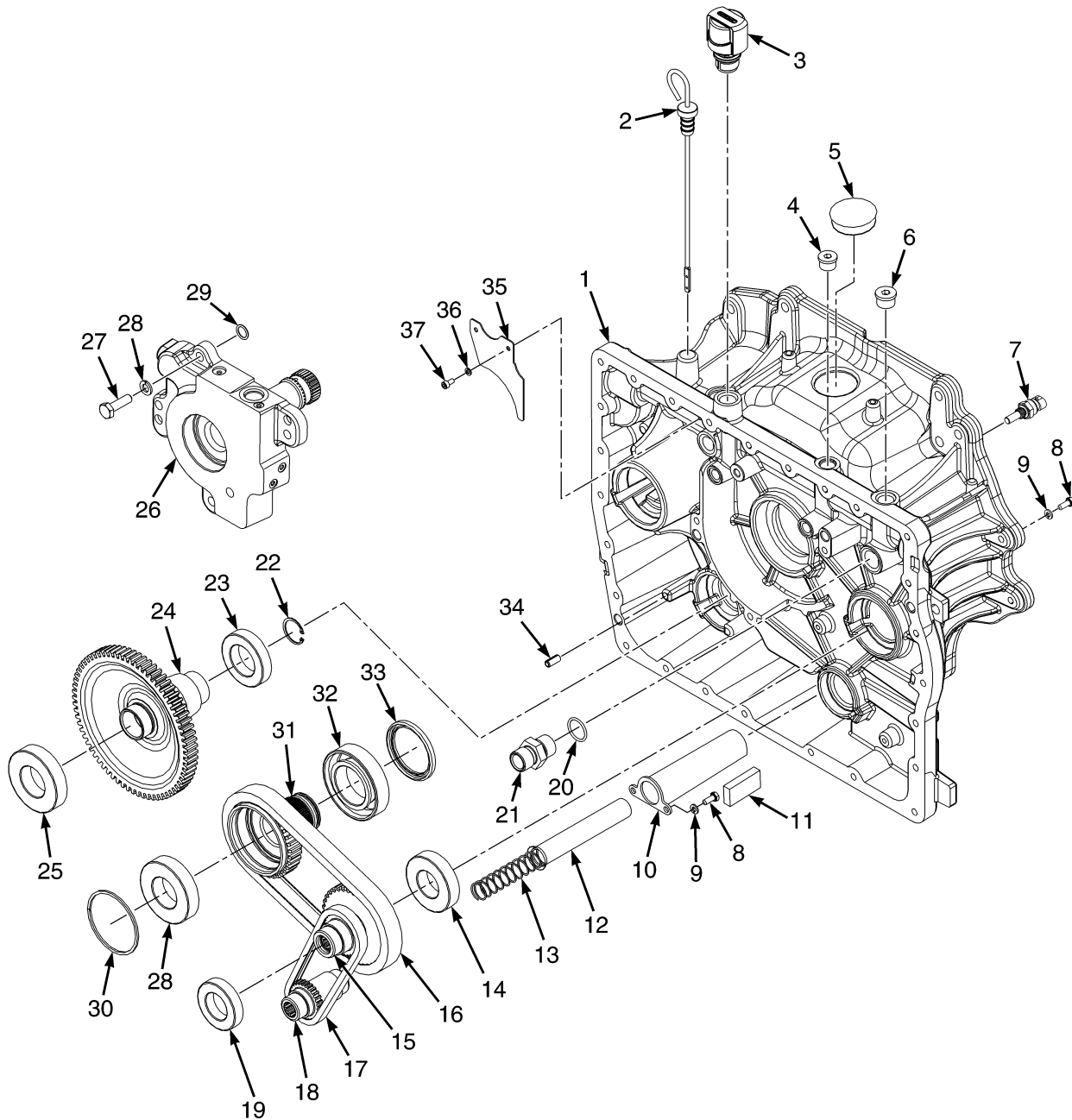
BP240197

TRANSMISSION HOUSING AND ASSEMBLY
SINGLE SPEED, GEAR DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
	4009901	Transmission Assy	1
1	4025208	Transmission Housing	1
2	1702335	Gasket	1
3	1688435	Cover (Out Put Gear)	1
4	173056	Roll Pin	2
5	1636645	Spacer	1
6	1516849	Nut	1
7	4020588	Transmission Filter	1
8	1676324	Clutch Pack (Reverse) (☞ Figure 6-12).....	1
9	1676323	Clutch Pack (Forward) (☞ Figure 6-11).....	1
10	1553403	O-Ring	1
11	44306	Ball Bearing	2
12	233693	Fitting	3
12	16485	O-Ring	1
13	303150	Dowel	2
14	1527884	Capscrew	26
15	222444	Fitting	1
15	16486	O-Ring	1
16	1702336	Gasket	1
17	2102764		
	4606846	Charge Pump (☞ Figure 6-9).....	1
18	292681	Lockwasher	9
19	293616	Capscrew	7
20	1547447	Oil Seal	1
21	1655880	Yoke	1
22	86229	Seal	1
23	1654651	Flange Head Capscrew	1
24	1660500	Solenoid Valve	2
24	1650819	Kit-Seal	1
25	2070263	Pressure Transducer	2
26	222443	Fitting	1
26	16483	O-Ring	1
27	222442	Fitting	1
27	16481	O-Ring	1
28	1520660	Solenoid	1
29	4603289	Plug	2
29	190763	O-Ring	1
	a 145481	O-Ring	1
	a 384279		
	293741	Capscrew	6
	a 4025106	Bracket (Lifting Eye)	1

FOOTNOTES:**a** Not Illustrated

TORQUE CONVERTER HOUSING AND ATTACHING PARTS (FIGURE 6-7) SINGLE SPEED, ALUMINUM CHAIN DRIVE

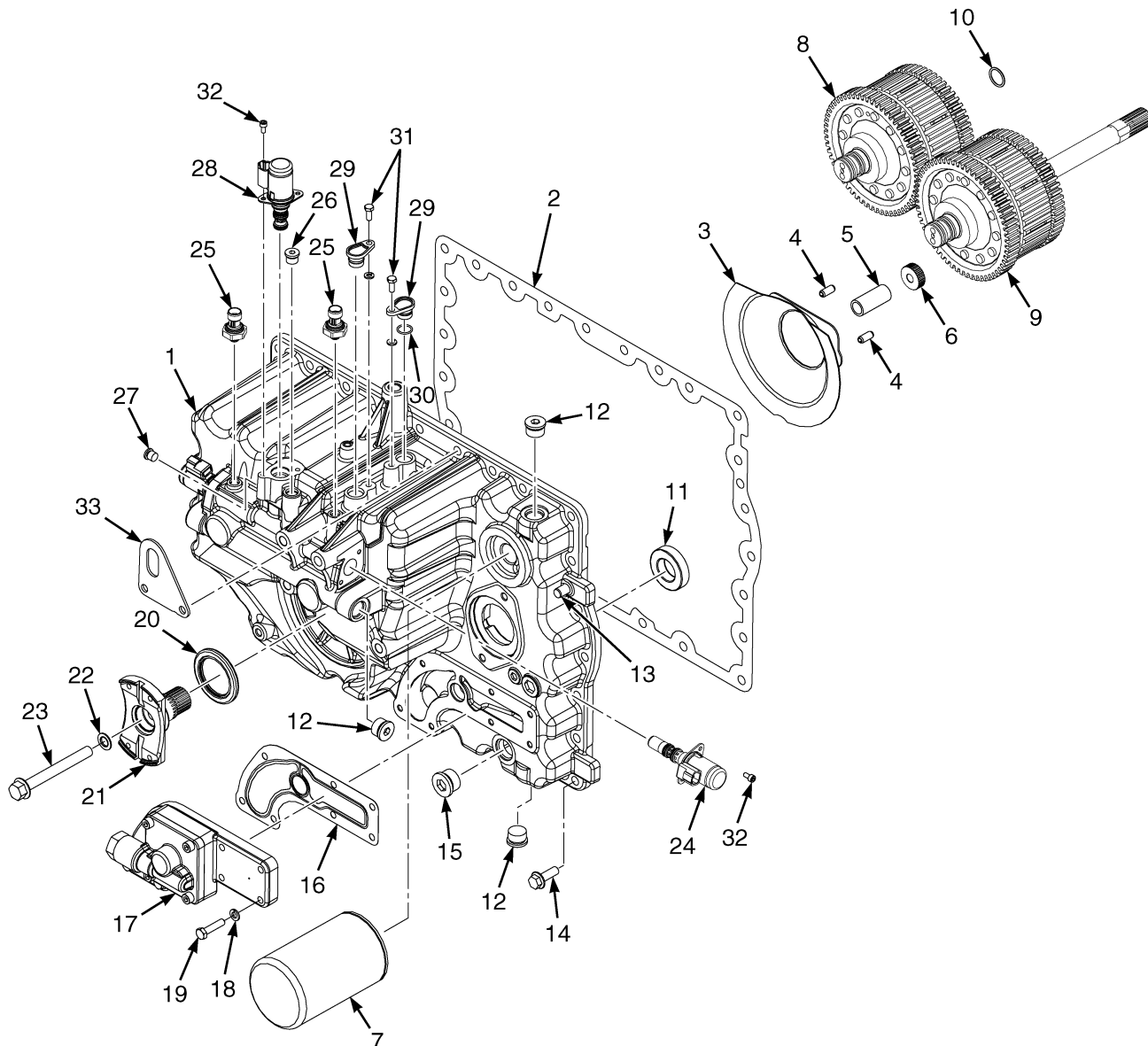


BP240179

TORQUE CONVERTER HOUSING AND ATTACHING PARTS
SINGLE SPEED, ALUMINUM CHAIN DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
	4020057	Transmission Assy	1
1	4016150	Converter Housing	1
2	1624401	Dipstick	1
3	1632741	Breather	1
4	235691	Fitting	1
5	1703644	Plug	1
6	233693	Fitting	3
7	1515654	Temperature Sensor	1
8	292500	Capscrew	2
9	292680	Washer	2
10	1702520	Cover	1
11	334560	Magnet	1
12	334450	Screen	1
13	1688598	Spring	1
14	43207	Ball Bearing	1
15	4016152	Sprocket	1
16	4020467	Drive Chain	1
17	4020466	Drive Chain	1
18	4010318	Sprocket	1
19	44307	Ball Bearing	1
20	39375	O-Ring	1
21	1558515	Fitting	1
22	58916	Snap Ring	1
23	44308	Ball Bearing	1
24	1684389	Transmission Gear	1
25	43208	Ball Bearing	8
26	1675647	Housing	1
27	287860	Capscrew	4
28	388049		
	292682	Lockwasher	4
29	104681	O-Ring	2
30	1544218	Sealing Ring	1
31	4016151	Sprocket	1
32	1544216	Bearing	1
33	1544217	Oil Seal (Torque Converter)	1
34	173056	Roll Pin	2
35	4020311	Plate	1
36	292679	Washer	2
37	384279		
	293741	Capscrew	2

TRANSMISSION HOUSING AND ASSEMBLY (FIGURE 6-8) SINGLE SPEED, ALUMINUM CHAIN DRIVE



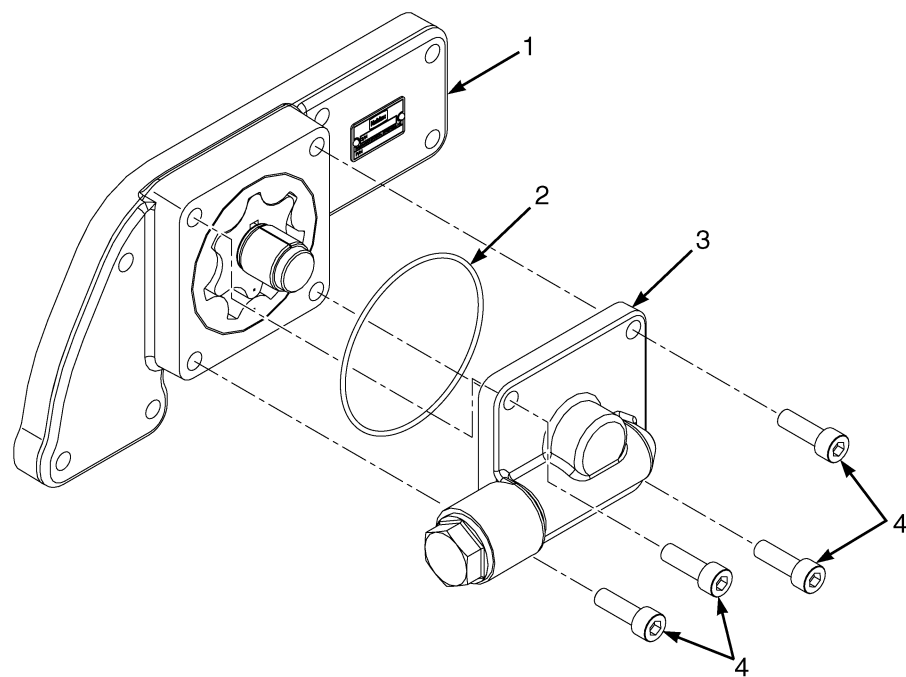
BP240178

TRANSMISSION HOUSING AND ASSEMBLY
SINGLE SPEED, ALUMINUM CHAIN DRIVE

ITEM	PART NO.	DESCRIPTION	QTY
	4020057	Transmission Assy	1
1	b 4016149	Transmission Housing	1
1	c 4025209	Transmission Housing	1
2	1702335	Gasket	1
3	1688435	Cover	1
4	.....	Pin	2
5	1636645	Spacer	1
6	1516849	Nut	1
7	2089366	Filter	1
7	4020588	Transmission Filter (Alternate Part)	1
8	1676324	Clutch Pack (Reverse) (☞ Figure 6-12).....	1
9	1676323	Clutch Pack (Forward) (☞ Figure 6-11).....	1
10	118361	O-Ring	1
11	44306	Ball Bearing	2
12	233693	Fitting	3
13	303150	Dowel	2
14	1527884	Capscrew	26
15	222444	Fitting	1
16	1702336	Gasket	1
17	2102764		
	4606846	Charge Pump	1
17	4017719	Pin	1
17	1705980	Pin	2
17	1705981	O-Ring	1
17	1705984	Ball	1
18	292681	Lockwasher	9
19	293616	Capscrew	7
20	1547447	Oil Seal	1
21	1655880	Yoke	1
22	86229	Seal	1
23	1654651	Flange Head Capscrew	1
24	1660500	Solenoid Valve	1
25	2070263	Pressure Transducer	1
26	222443	Fitting	1
27	222442	Fitting	1
28	1520660	Solenoid	1
29	4603289	Plug	2
30	190763	O-Ring	2
31	292500	Capscrew	2
32	384279		
	293741	Capscrew	6
33	c 4025106	Bracket (Lifting Eye)	1
	a 145481	O-Ring	1

FOOTNOTES:**a** Not Illustrated**c** 2/2011 →**b** → 2/2011

CHARGE PUMP (FIGURE 6-9)



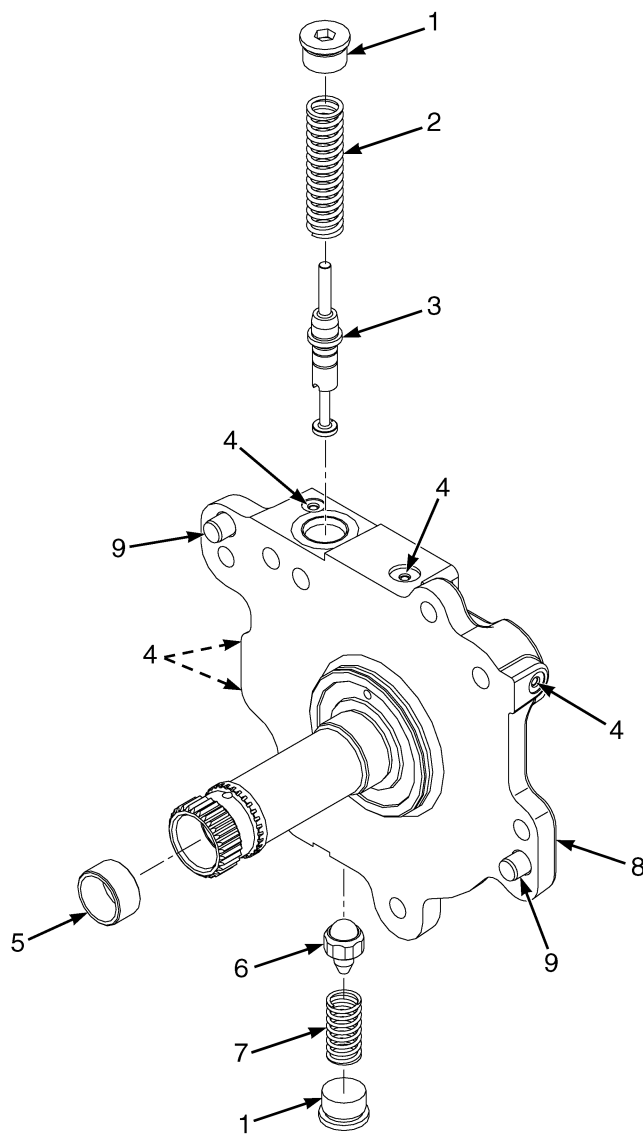
BP240965

ITEM	PART NO.	DESCRIPTION	QTY
	2102764		
	4606846	Charge Pump	1
1	.....	Body	1
2	1705981	O-Ring	1
3	.....	Cover	1
4	.....	Screws	4

NOTES

[illegible]

STATOR SUPPORT HOUSING (FIGURE 6-10)

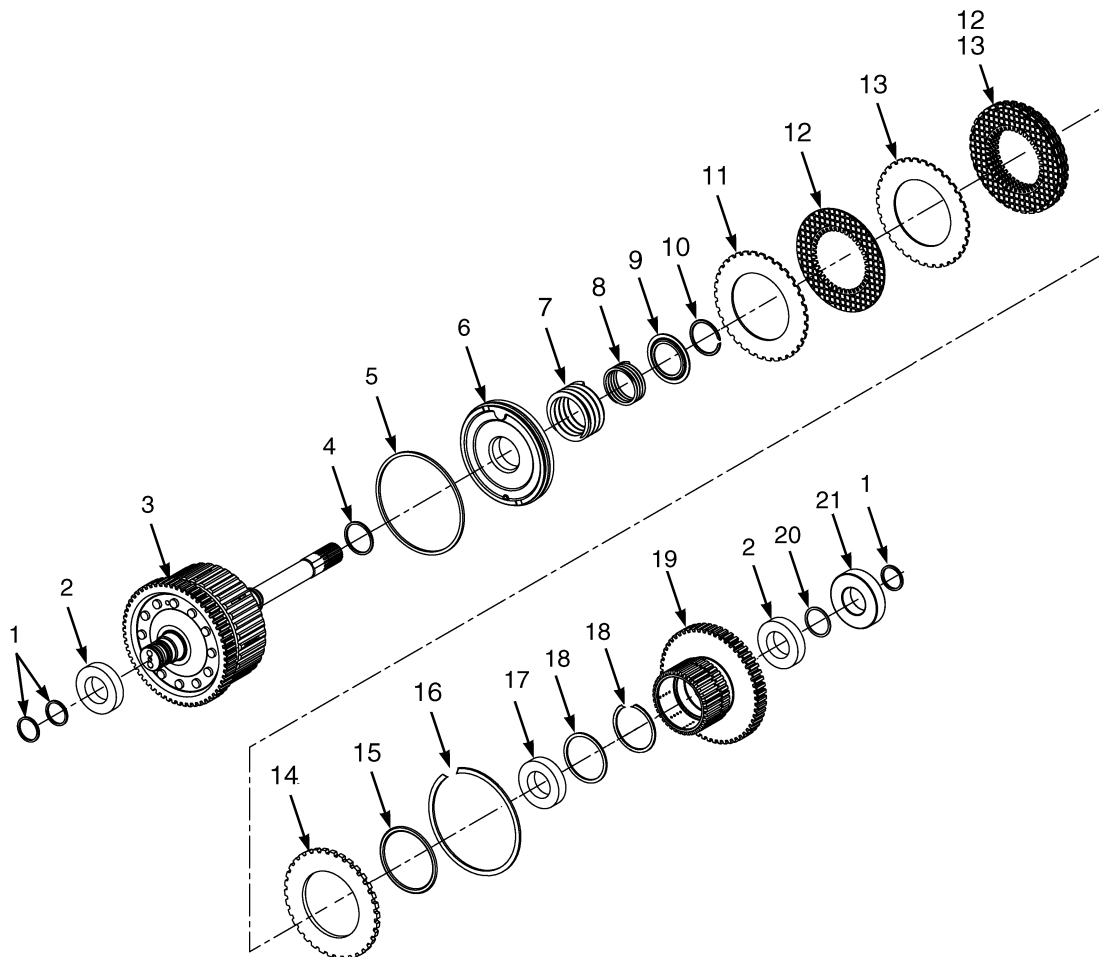


BP240196

STATOR SUPPORT HOUSING

ITEM	PART NO.	DESCRIPTION	QTY
	1675647	Housing Stator Support	1
1	233693	Fitting	2
1	16485	O-Ring	1
2	1676327	Spring	1
3	1676326	Spool	1
4	.....	Plug	5
5	1516826	Bushing	1
6	63081	Ball	1
7	1676328	Spring	1
8	.....	Body	1

INPUT/FORWARD CLUTCH (FIGURE 6-11) SINGLE SPEED TRANSMISSION

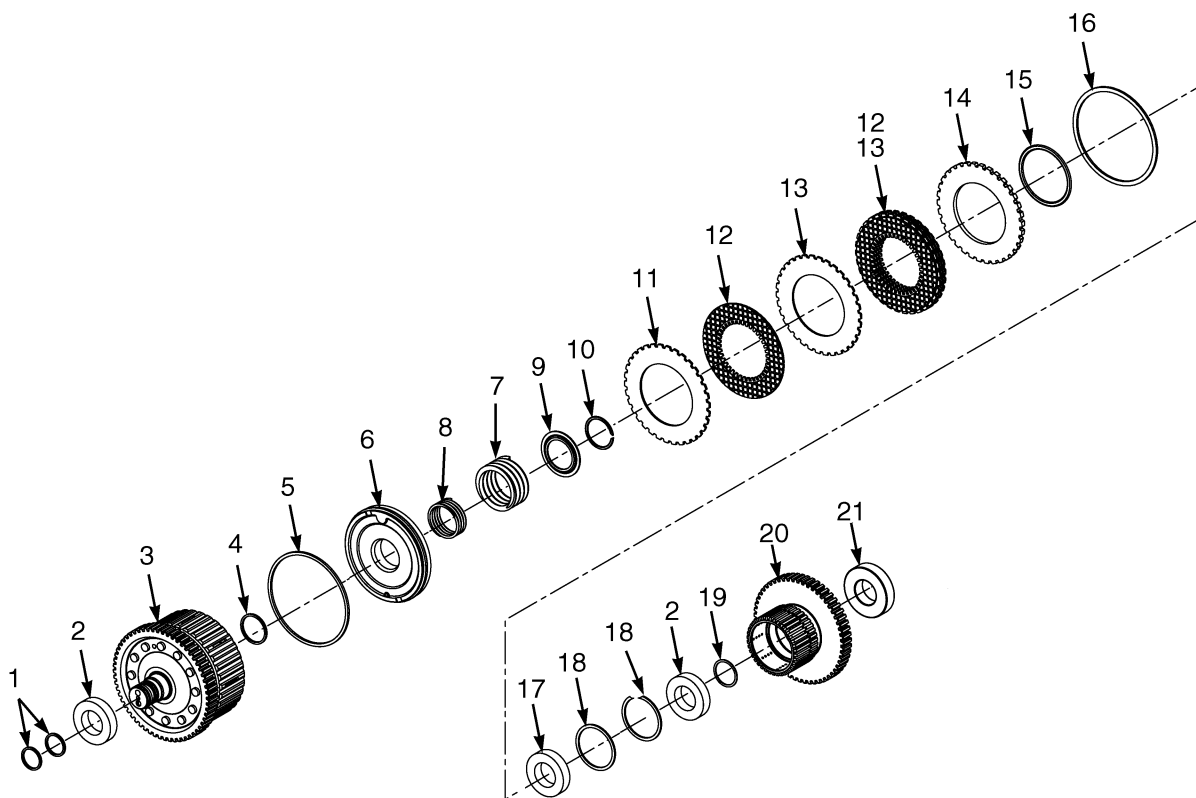


BP240098

**INPUT/FORWARD CLUTCH
SINGLE SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
	1676323	Clutch Pack	1
1	.....	Ring Seal	3
2	1581116		
	4025477	Ball Bearing	2
3	4007888	Shaft	1
4	.....	Ring Seal	1
5	.....	Ring Seal	1
6	2085129	Piston	1
7	1581108	Spring	1
8	1581098	Spring	1
9	1581099	Spring Guide	1
10	1581100	Snap Ring	1
11	.....	Conical Plate	1
12	.....	Friction Plate	5
13	.....	Separator Plate	4
14	1537449	Pressure Plate (6.0 mm)	1
15	.....	O-Ring	1
16	1537450	Snap Ring	1
17	124603	Ball Bearing	1
18	1581107	Snap Ring	2
19	4007889	Clutch Gear	1
20	1537459	Snap Ring	1
21	43207	Ball Bearing	1
	1543102	Kit-Clutch Pack Plates	1
	1595425	Kit-Clutch Pack Seals	1

COUNTER/REVERSE CLUTCH (FIGURE 6-12) SINGLE SPEED TRANSMISSION



BP240099

**COUNTER/REVERSE CLUTCH
SINGLE SPEED TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
	1676324	Clutch Pack	1
1	.....	Seal	2
2	1581116		
	4025477	Ball Bearing	2
3	4007888	Shaft	1
4	.....	Seal	1
5	.....	Seal	1
6	2085129	Piston	1
7	1581108	Spring	1
8	1581098	Spring	1
9	1581099	Spring Guide	1
10	1581100	Snap Ring	1
11	.....	Conical Plate	1
12	.....	Friction Plate	5
13	.....	Separator Plate	4
14	1543094	Pressure Plate (5.8 mm)	1
15	.....	O-Ring	1
16	1537450	Snap Ring	1
17	124603	Ball Bearing	1
18	1581107	Snap Ring	1
19	1537459	Snap Ring	1
20	4007889	Clutch Gear	1
21	43207	Ball Bearing	1
	1543102	Kit-Clutch Pack Plates	1
	1595425	Kit-Clutch Pack Seals	1

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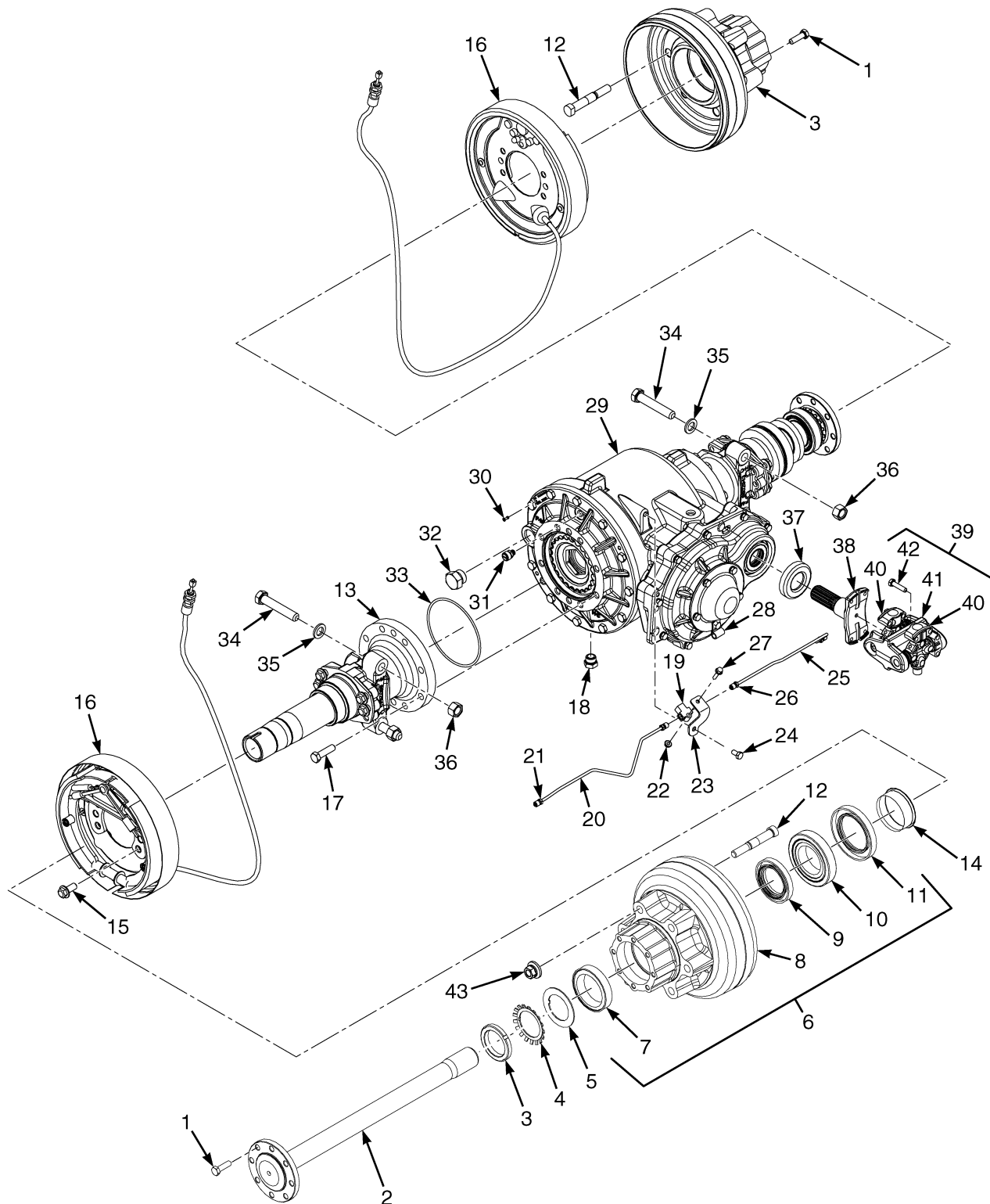
7

DRIVE AXLE

SECTION 7
DRIVE AXLE

DESCRIPTION	PAGE
CENTER SECTION	7-6
DRIVE AXLE ASSEMBLY	7-2
DRIVE TIRE AND WHEEL	7-8

DRIVE AXLE ASSEMBLY (FIGURE 7-1)



BP070131

DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4017174	Drive Axle	1
1	293630	Capscrew	16
2	4002683	Axle Shaft	2
3	2021918	Nut	2
4	2021588	Lockwasher	2
5	2021592	Washer	2
6	1509835	Hub Assembly	2
7	1525632	Tapered Roller Bearing	1
7	368427	Bearing Set (Optional)	1
8	1509847	Hub (Brake Drum)	1
9	2021557	Seal	1
10	2021555	Tapered Roller Bearing	1
10	1375485	Roller Bearing (Optional)	1
11	2021554	Seal	1
12	1509870	Wheel Stud (Hub)	6
13	4017172	Drive Axle Housing (RH and LH)	2
14	4003843	Wear Sleeve	1
15	2021286	Bolt	12
16	1552768	Brake Assembly (LH, with Cable) (☞Figure 9-1).....	1
16	1552769	Brake Assembly (RH, with Cable) (☞Figure 9-1).....	1
17	293648	Capscrew	20
18	1521809	Drain Plug	1
19	1641351	Fitting	1
20	4601649	Tube Assy	1
21	1327241	Nut	2
22	1307884		
	1514429	Nut	1
23	1618311	Bracket	1
24	1527879	Capscrew	1
25	4601648	Tube Assy	1
26	1327241	Nut	2
27	1527878	Capscrew	1
28	2075120	Clamp	1
28	164488	Clamp (Optional)	1
29	4002604	Drive Axle Center Section (☞Figure 7-2).....	1
30	17173	Blind Break (Pop) Rivet	2
31	1692643	Plug	1
32	14603	Plug	1
33	86543	O-Ring	2
34	293698	Capscrew	4
35	296426	Washer	4
36	1380266		
	292658	Nut	4
37	.....	Dust Cover	1
38	1517673	Shaft	1
39	1547757	Drive Shaft	1
40	1566462	Universal Joint	2
41	1566461	Coupling	1
42	293616	Capscrew	8
43	1517836	Wheel Nut	12

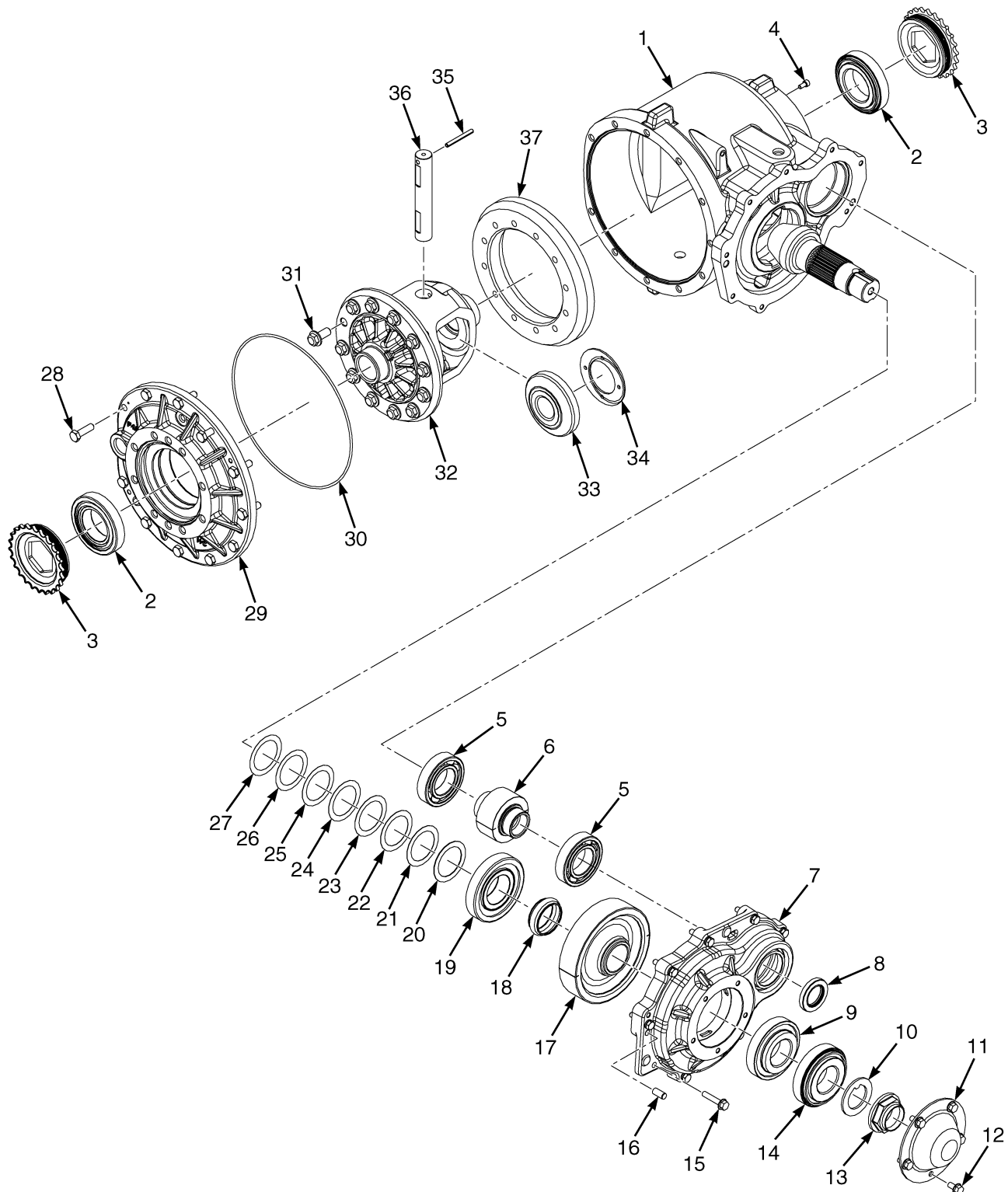
DRIVE AXLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	251979	Lubricant	AR

NOTES

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CENTER SECTION (FIGURE 7-2)

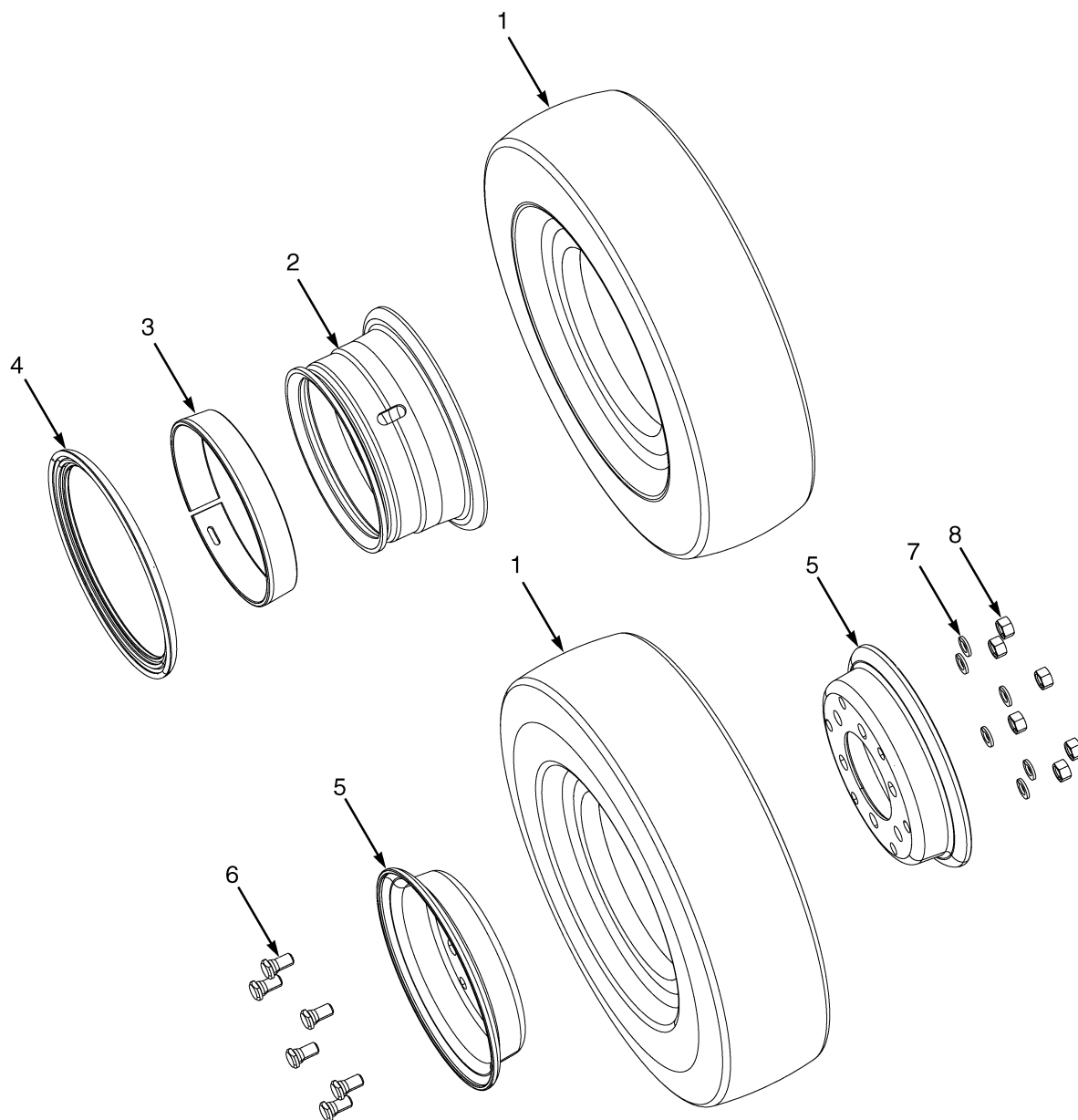


BP070130

CENTER SECTION

ITEM	PART NO.	DESCRIPTION	QTY
	4002604	Drive Axle Center Section (Assembly)	1
1	.....	Center Section Housing	1
2	2021288	Radial Roller Bearing	2
3	4002527	Nut	2
4	293762	Capscrew	2
5	1523479	Ball Bearing	2
6	1517578	Gear	1
7	1516535	Housing	1
8	1522377	Oil Seal	1
9	1578978	Tapered Roller Bearing	1
10	1530588	Washer	1
11	1516536	Cover	1
12	1527879	Capscrew	5
13	2026861	Nut	1
14	2022352	Tapered Roller Bearing	1
15	1510114	Capscrew	9
16	302385	Dowel	2
17	4004475	Gear	1
18	4004468	Sleeve	1
19	2028862	Tapered Roller Bearing	1
19	1578981	Tapered Roller Bearing (Option)	1
20	1520755	Shim (0.04 in.)	1
21	1569913	Shim (0.009 in.)	1
22	1520752	Shim (0.012 in.)	1
23	1569914	Shim (0.014 in.)	1
24	1520753	Shim (0.016 in.)	1
25	1569915	Shim (0.018 in.)	1
26	1520754	Shim (0.19 in.)	1
27	1569912	Shim (0.008 in.)	1
28	293630	Capscrew	11
29	4002491	Cover	1
30	1683651	O-Ring	1
31	2021286	Bolt	12
32	2054381	Differential	1
33	1598536	Kit-Gear	2
34	1565325	Washer	2
35	1593763	Shaft	1
37	1593694	Cotter Pin	1
38	2054792	Gear and Pinion	1
	1584621	Sealant	1
	264159	Adhesive	1

DRIVE TIRE AND WHEEL (FIGURE 7-3)



BP070102

DRIVE TIRE AND WHEEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1544234	Solid Pneumatic Tire (6.50x10/5.0)	2
1	1544232	Pneumatic Tire (6.50 x 10-12PR)	2
2	2067040	Rim (6.50x10/5.0)	2
3	323599	Wheel Side Ring	1
4	323598	Wheel Lock Ring	1
5	2092536	Wheel Assy (5.00 x 10) (6.50x10-12 PR)	2
5	.....	Inner Rim	1
5	.....	Outer Rim	1
6	2027618	Wheel Stud	6
7	292685	Lockwasher	6
8	292600	Nut	6
	a 288638	Label (Warning)	1

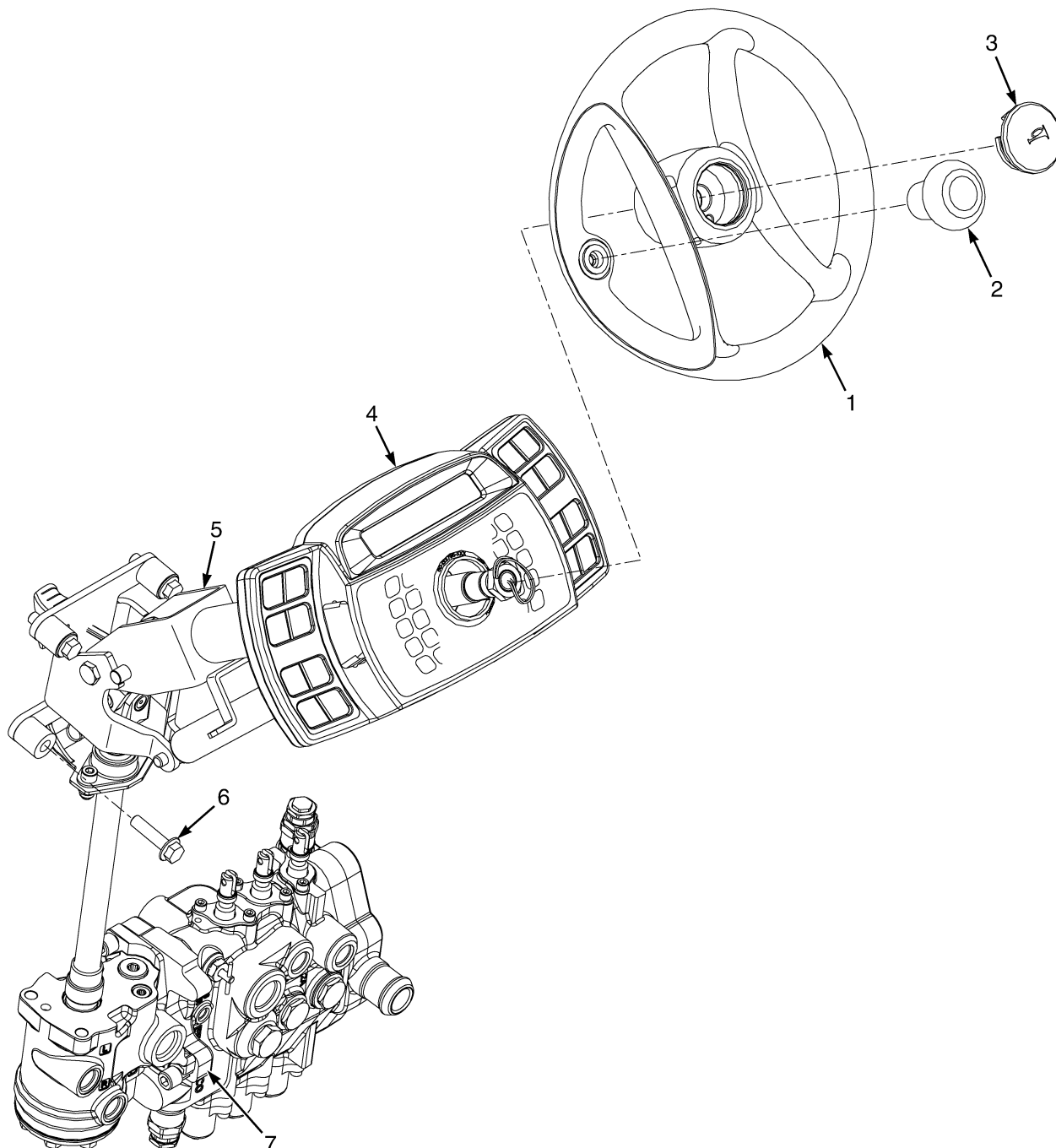
FOOTNOTES:**a** Not Illustrated

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SECTION 8
STEERING SYSTEM

DESCRIPTION	PAGE
STEER TIRE AND WHEEL	8-10
STEERING AXLE AND ATTACHING PARTS	8-8
STEERING COLUMN ASSEMBLY	8-4
ISOLATED, DIESEL	8-6
STEERING CYLINDER	8-12
STEERING WHEEL AND COLUMN	8-2

STEERING WHEEL AND COLUMN (FIGURE 8-1)



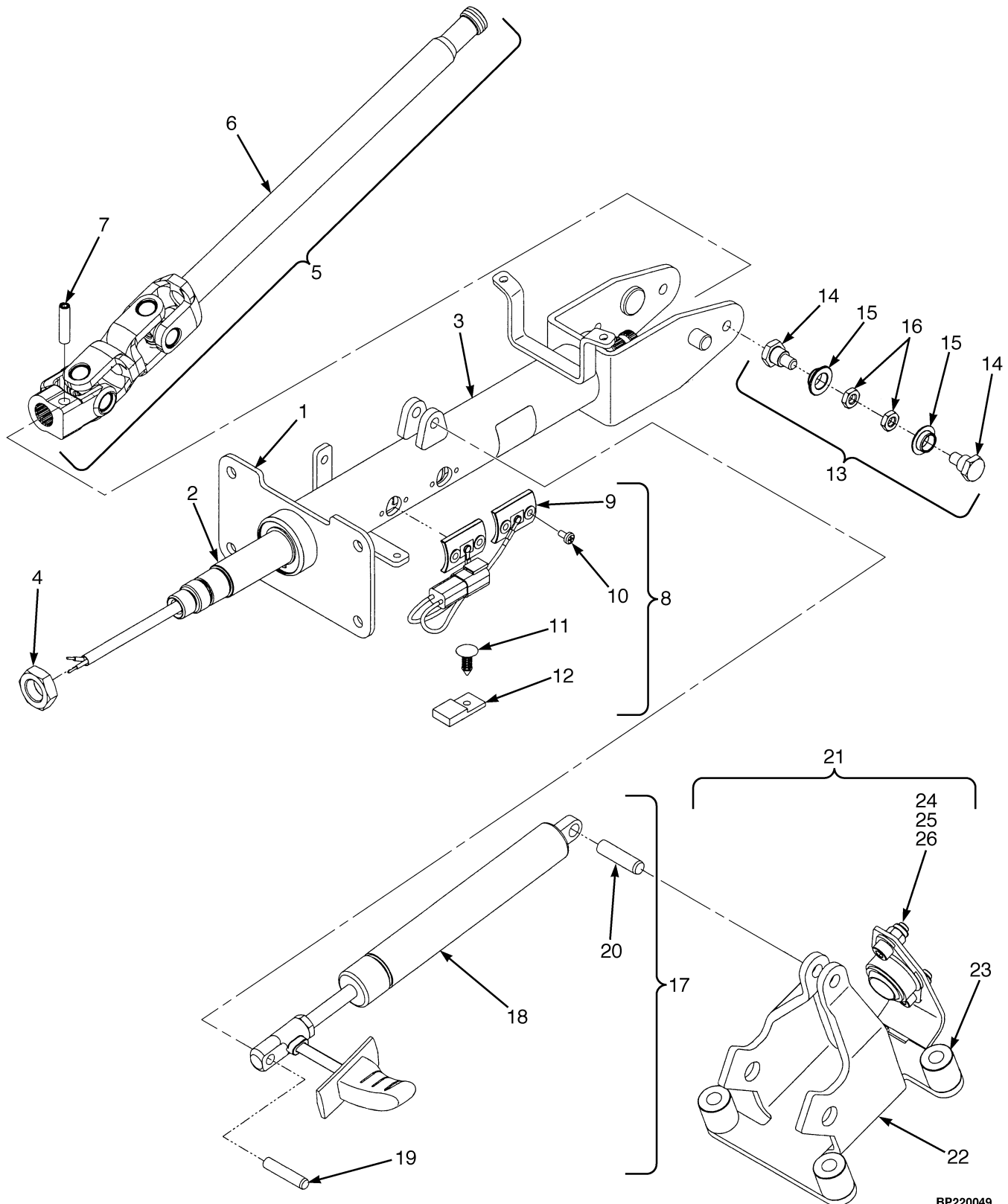
BP220175

STEERING WHEEL AND COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
1	1551839	Steering Wheel (Without Spinner Knob)	1
1	1531563	Steering Wheel (With Spinner) (With Spinner Knob)	1
2	1586109	Knob Assembly	1
2	1675581	Knob	1
2	1675582	Cap	1
2	1675583	Insert	1
3	1608622	Horn Button	1
4	.....	Display Cluster (☞ Figure 5-8).....	1
5	a 1657962	Steering Column (☞ Figure 8-2).....	1
5	b 4023450	Steering Column (☞ Figure 8-2).....	1
5	4023451	Steering Column (Diesel)	1
5	4611791	Steering Column (Diesel)	1
6	1512403	Capscrew	4
7	.....	Hydraulic Control Valve	1

FOOTNOTES:**a** → S/N A274V01682J**b** S/N A274V01683J →

STEERING COLUMN ASSEMBLY (FIGURE 8-2)



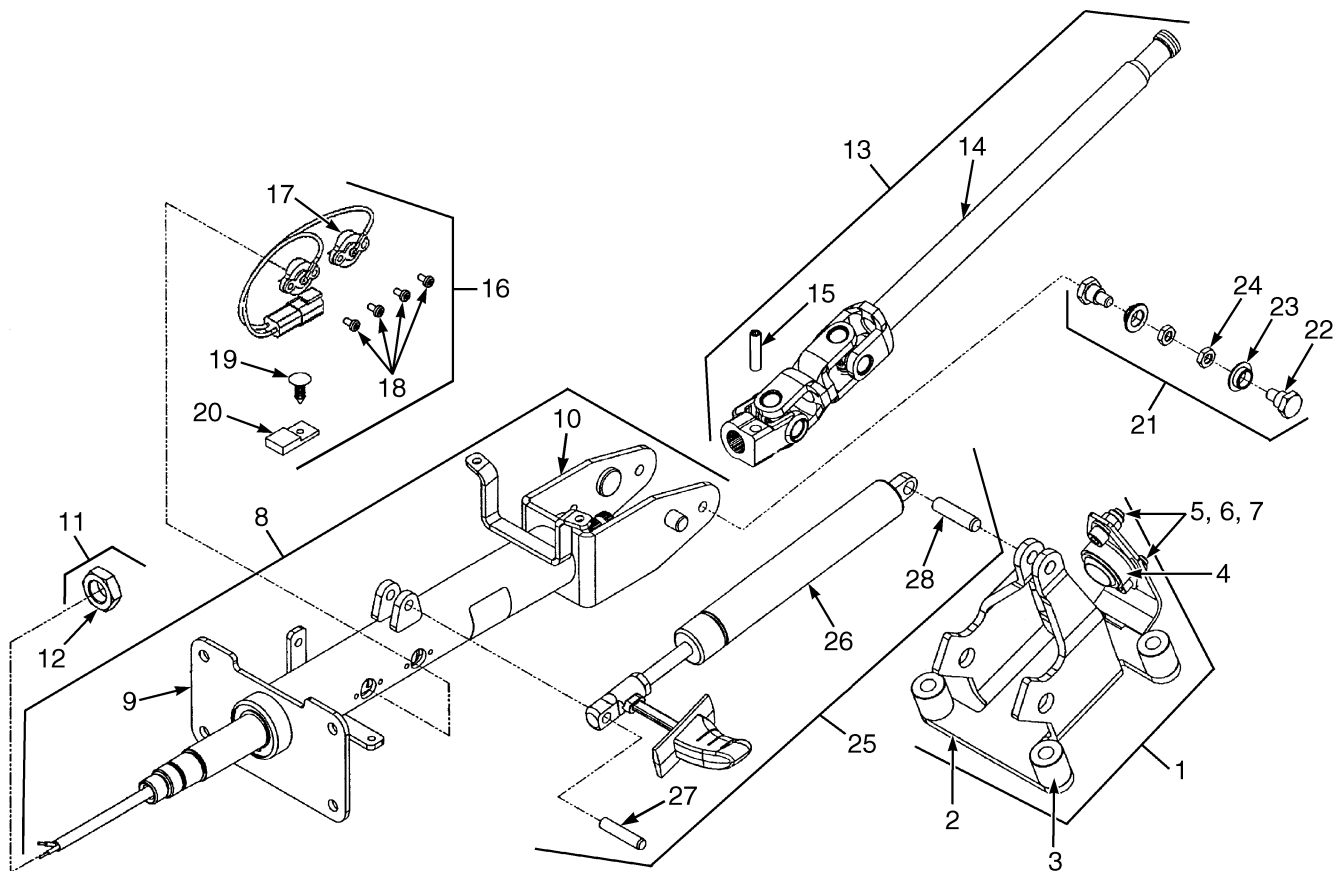
BP220049

STEERING COLUMN ASSEMBLY**KEY:****A:** Non Isolated**B:** Isolated

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 1657962	Steering Column	1	..
	c 4023450	Steering Column	1	..
	4023451	Steering Column	..	1
1	b 4028642	Kit (Shaft Upper)	1	1
2	.....	Shaft Assembly (Upper)	1	1
3	.....	Housing	1	1
4	1562492	Kit-Nut	1	1
4	.....	Nut	2	2
5	1562493	Kit-Shaft (Lower)	1	1
6	.....	Shaft Assembly (Lower)	1	1
7	.....	Pin	1	1
8	1562496	Kit-Contact	1	1
9	.....	Contact Assembly (Horn)	1	1
10	.....	Screw	4	4
11	.....	Fastener	1	1
12	.....	Connector	1	1
13	1562501	Kit-Pivot (Lower)	1	1
14	.....	Bolt (Pivot)	2	2
15	.....	Bushing	2	2
16	.....	Nut	2	2
17	1562505	Kit-Gas Spring	1	1
18	.....	Gas Spring	1	1
19	.....	Pin	1	1
20	.....	Pin	1	1
21	1562509	Kit-Support	1	..
21	1562509	Kit-Support	..	1
22	.....	Support	1	1
23	.....	Spacer	4	..
24	.....	Nut	2	2
25	.....	Washer	2	2
26	.....	Screw	2	2

FOOTNOTES:**a** → S/N A274V01682J**c** S/N A274V01683J →**b** 1/2011 →

STEERING COLUMN ASSEMBLY (FIGURE 8-3) ISOLATED, DIESEL

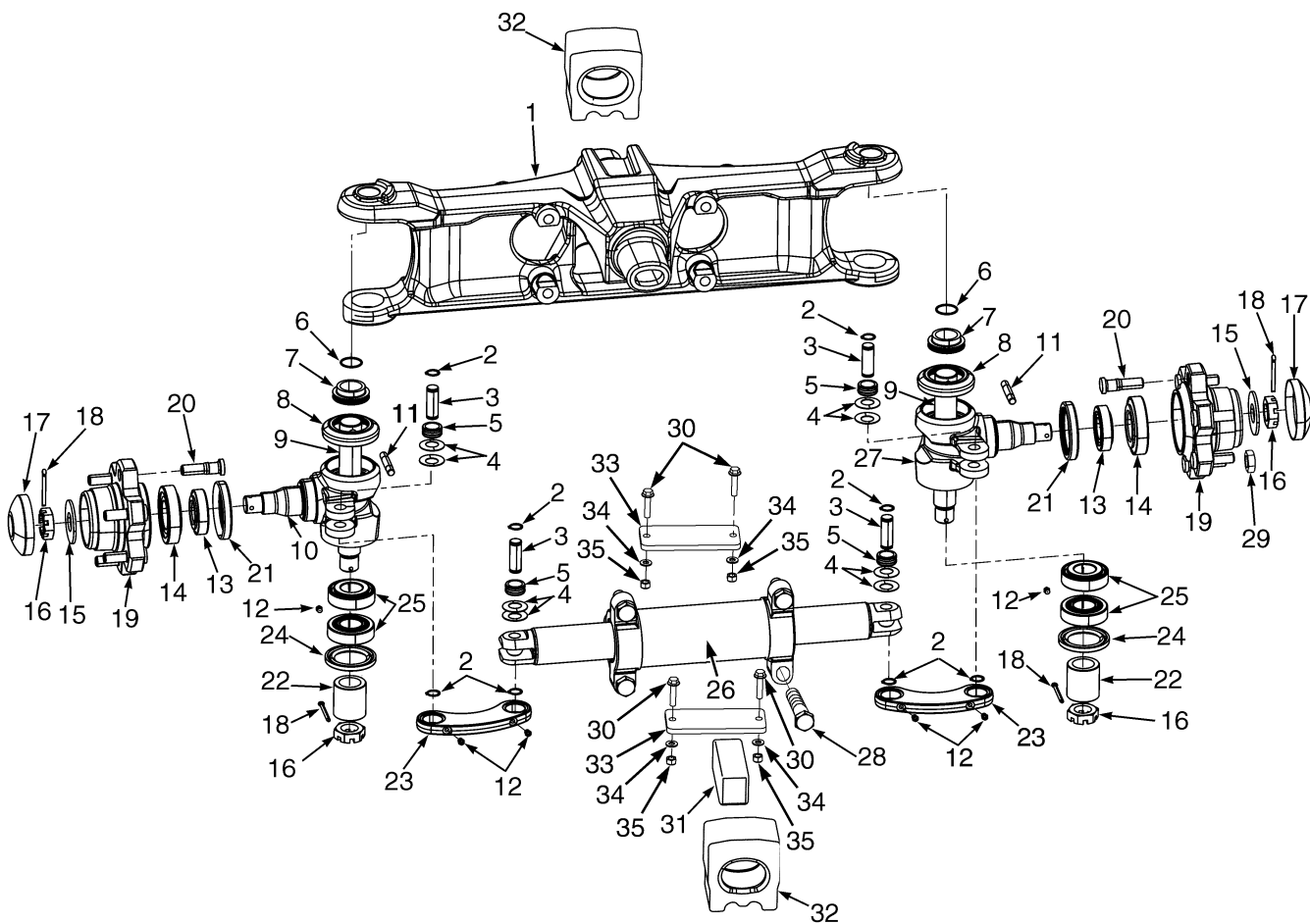


BP220224

**STEERING COLUMN ASSEMBLY
ISOLATED, DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	4611791	Steering Column	1
1	4038672	Kit-Support	1
2	.....	Support	1
3	.....	Spacer	4
4	.....	Joint	1
5	.....	Nut	2
6	.....	Washer	2
7	.....	Screw	2
8	4038673	Kit-Shaft (Upper)	1
9	.....	Shaft Assembly (Upper)	1
10	.....	Housing Assembly	1
11	4038674	Kit-Nut	1
12	.....	Nut	2
13	4038675	Kit-Shaft (Lower)	1
14	.....	Shaft Assembly (Lower)	1
15	.....	Pin	1
16	4038676	Kit-Contact	1
17	.....	Contact Assembly (Horn)	1
18	.....	Screw	4
19	.....	Fastener	1
20	.....	Connector	1
21	4038677	Kit Pivot (Lower)	1
22	.....	Bolt (Pivot)	2
23	.....	Bushing	2
24	.....	Nut	2
25	4038678	Kit-Gas Spring	1
26	.....	Gas Spring	1
27	.....	Pin	1
28	.....	Pin	1

STEERING AXLE AND ATTACHING PARTS (FIGURE 8-4)



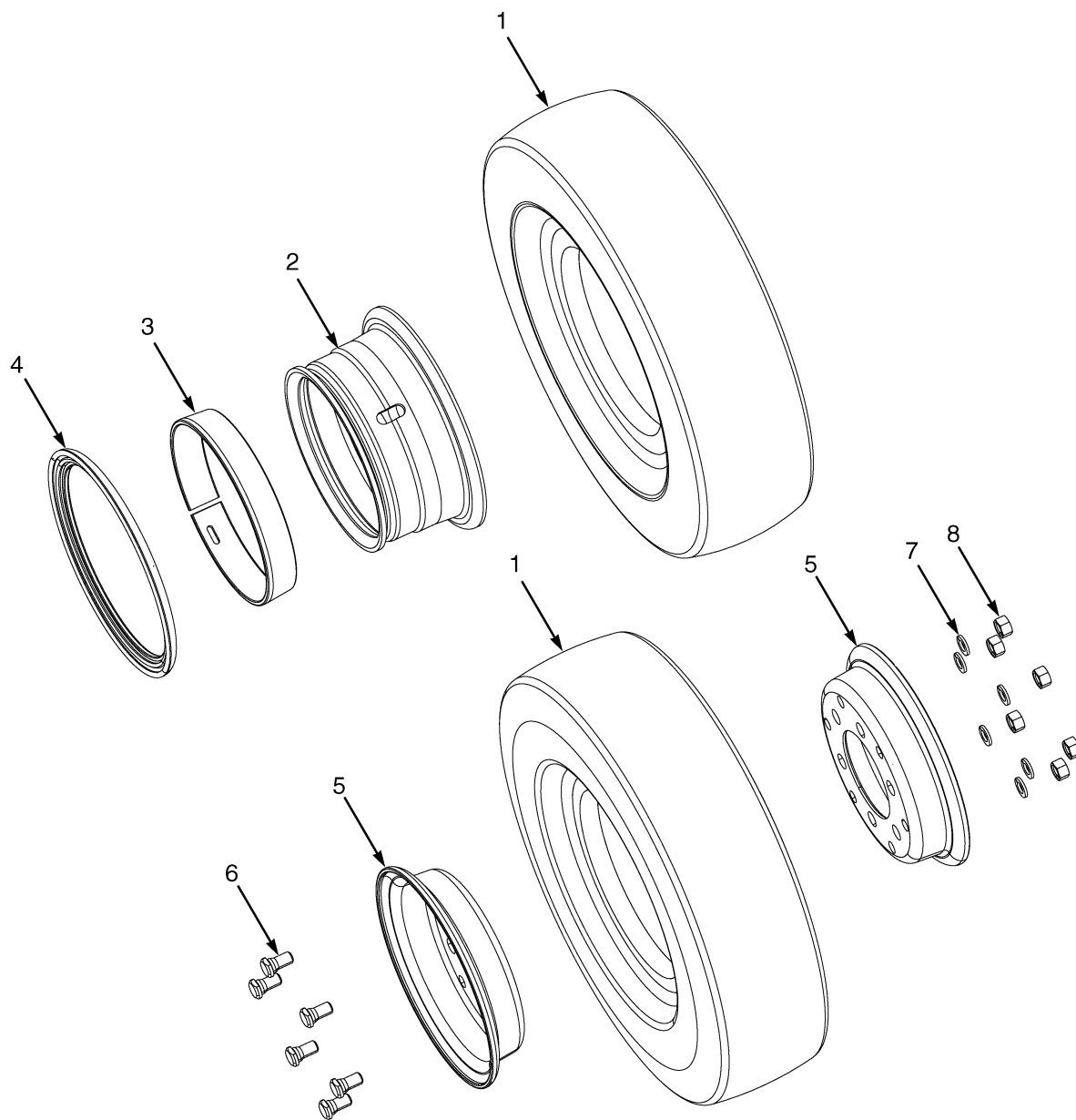
BP220174

STEERING AXLE AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
	1524927	Steer Axle Assembly	1
1	1524921	Steering Axle	1
2	58903	Snap Ring	8
3	1568271	Pin	4
4	300752	Spherical Washer	8
5	300751	Bushing	4
6	39352	O-Ring	2
7	300767	Spacer	2
8	264973	Seal	2
9	1502277	King Pin	2
10	1524916	Spindle (LH)	1
11	226986	Pin	2
12	13957	Grease Fitting	6
13	1375472	Tapered Roller Bearing	2
13	2021803	Bearing Set (Optional)	2
14	1531171	Tapered Roller Bearing	2
14	2021802	Bearing Set (Optional)	2
15	1536250	Washer	2
16	249289	Nut	4
17	2021800	Cap	2
18	15245	Cotter Pin	4
19	1525238	Hub	2
20	1502276	Wheel Stud	6
21	2021898	Seal	2
22	300766	Sleeve	2
23	a 1524923	Tie Rod	2
23	b 4028349	Tie Rod	2
24	98525	Oil Seal	2
25	1374815	Bearing Set	4
25	4006720	Bearing Set	4
26	2055917	Steering Cylinder (☞ Figure 8-6).....	1
27	1524914	Spindle (RH)	1
28	293686	Capscrew	4
29	1517836	Wheel Nut	12
30	1527886	Capscrew	4
31	1388838	Rubber Mount	1
32	2060696	Rubber Mount	2
33	4004500	Plate	2
34	320159	Washer	4
35	316826	Nut	4

FOOTNOTES:**a** → 4/2011**b** 4/2011 →

STEER TIRE AND WHEEL (FIGURE 8-5)



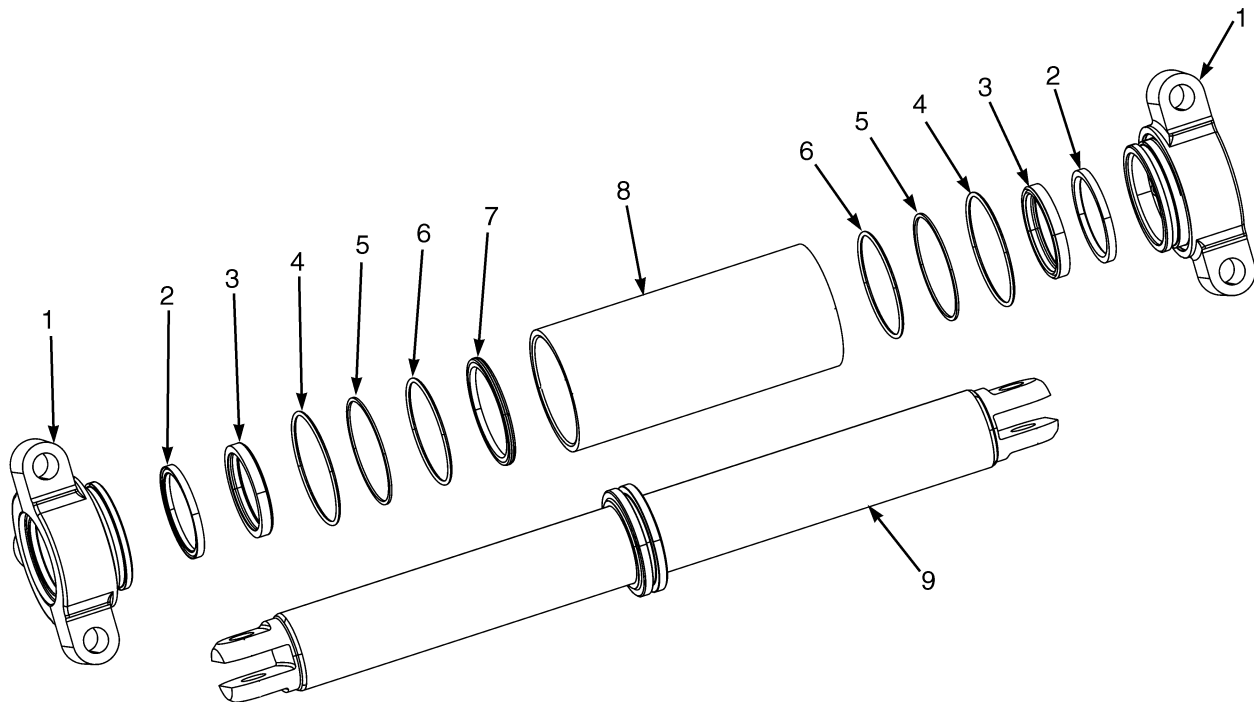
BP070102

STEER TIRE AND WHEEL

ITEM	PART NO.	DESCRIPTION	QTY
1	281647	Solid Pneumatic Tire (18x7-8)	2
1	1544233	Pneumatic Tire (5.00x8-10PR)	2
2	2067053	Rim (4.33 x 8) (18x7-8)	2
3	2026224	Side Ring	1
4	2026225	Lock Ring	1
5	2092534	Wheel Assy	2
5	.....	Inner Rim	1
5	.....	Outer Rim	1
6	2021575	Wheel Stud	6
7	292683	Lockwasher	6
8	303119	Nut	6
	a 288638	Label (Warning)	1

FOOTNOTES:**a** Not Illustrated

STEERING CYLINDER (FIGURE 8-6)



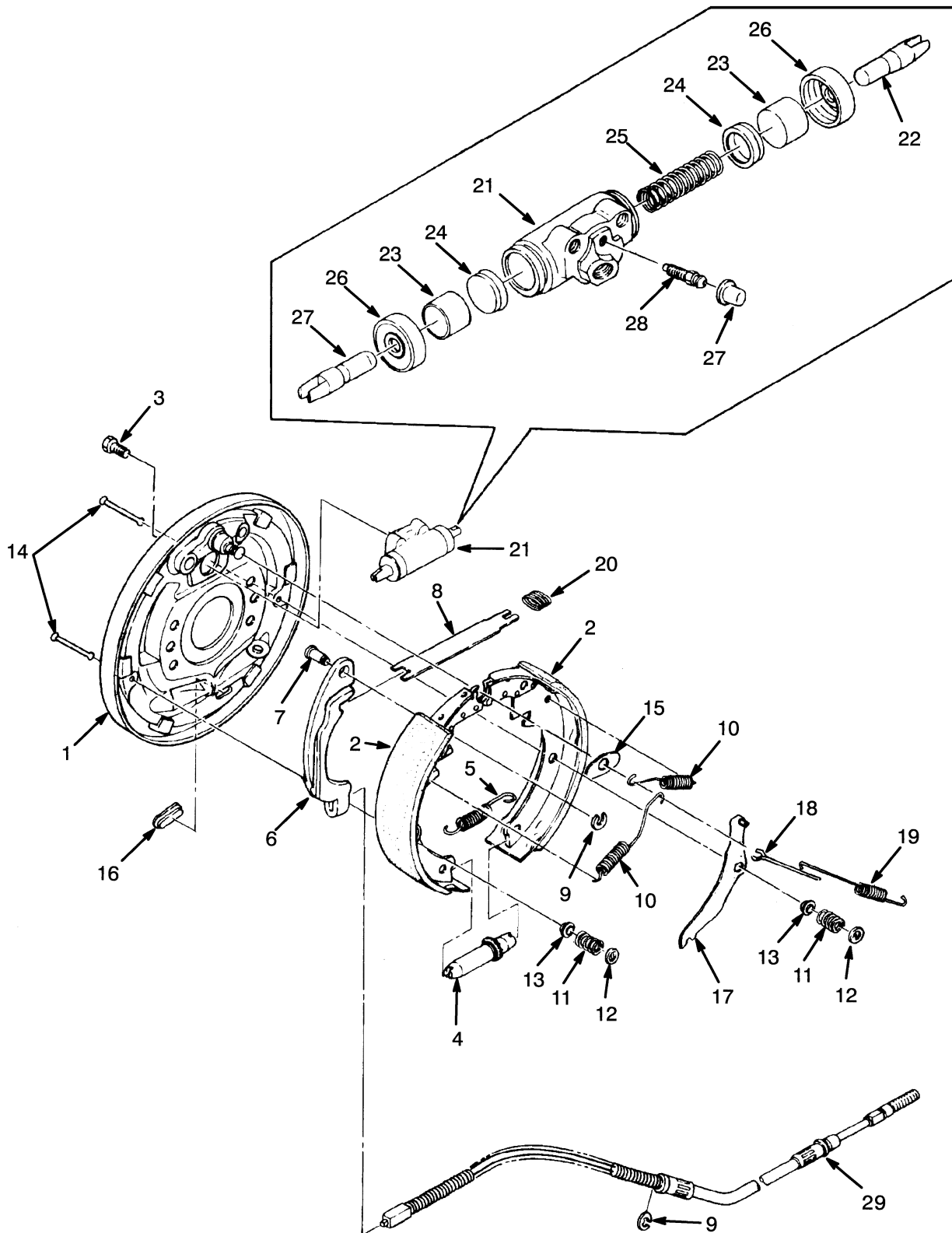
BP220064

ITEM	PART NO.	DESCRIPTION	QTY
	2055917	Steering Cylinder	1
1	1533741	End Cap	2
2	163307	Rod Wiper	2
3	1381099	Rod Seal	2
4	14191	O-Ring	2
5	1310391	Back-Up Ring	2
6	1310389	O-Ring	2
7	2044370	Piston Seal	1
8	1530211	Tube Weldmt-Cylinder	1
9	1533747	Cylinder Rod	1
	1534252	Kit-Seal	1

**SECTION 9
BRAKE SYSTEM**

DESCRIPTION	PAGE
BRAKE ASSEMBLY	9-2
BRAKE PEDAL LINKAGE	9-4
PARK BRAKE	9-6

BRAKE ASSEMBLY (FIGURE 9-1)

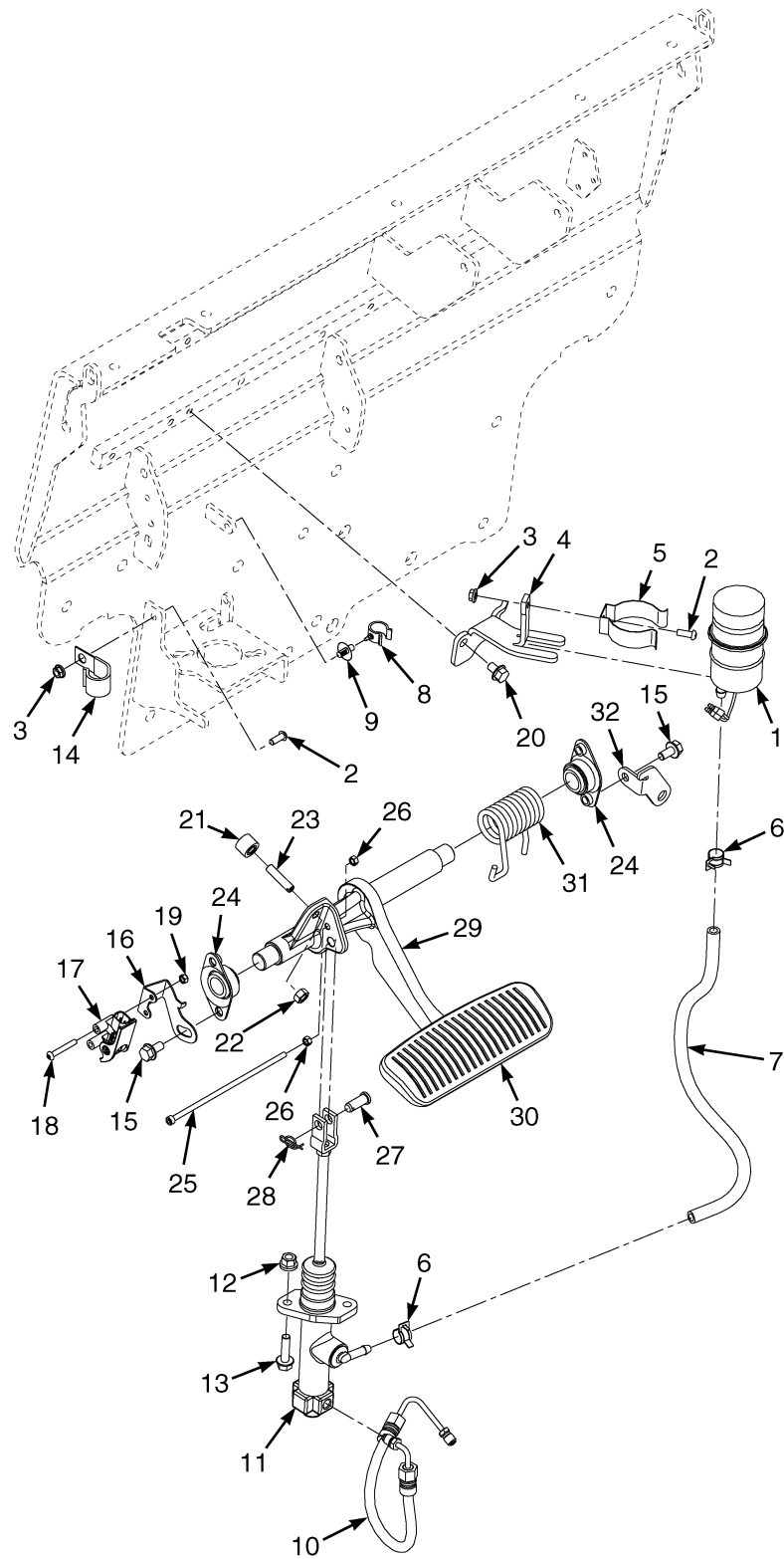


HP040455

BRAKE ASSEMBLY**KEY:****A: Left Hand****B: Right Hand**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1552768	Brake Assembly (LH, with Cable)	1	..
	1552769	Brake Assembly (RH, with Cable)	..	1
	1593917	Brake Assembly (LH, without cable)	1	..
	1593918	Brake Assembly (RH, without cable)	..	1
1	2026773	Backplate	..	1
1	2026774	Backplate	1	..
2	.....	Brake Shoe	2	2
3	2026776	Bolt	2	2
4	.....	Adjuster Assembly	..	1
4	.....	Adjuster Assembly	1	..
5	.....	Spring (Adjuster)	1	1
6	2026777	Lever (RH)	..	1
6	2026778	Lever (LH)	1	..
7	.....	Pin	1	1
8	2026780	Strut	1	1
9	2026781	Retaining Ring	2	2
10	2026782	Spring	2	2
11	.....	Spring (Shoe Hold Down)	2	2
12	.....	Washer	2	2
13	.....	Washer (Lower)	1	1
14	.....	Pin	2	2
15	1593919	Wear Plate	1	1
16	1367855	Plug	1	1
17	.....	Lever	..	1
17	.....	Lever	1	..
18	.....	Stop (Lever)	1	1
19	.....	Spring	1	1
20	2026783	Spring	1	1
21	2026775	Wheel Cylinder	1	1
22	2045884	Piston Rod	2	2
23	.....	Piston	2	2
24	.....	Cup	2	2
25	.....	Spring	1	1
26	.....	Boot	2	2
27	1367871	Cup	1	1
28	1367870	Bleeder Screw	1	1
29	1552770	Parking Brake Cable (LH)	1	..
29	1552771	Parking Brake Cable (RH)	..	1
	2026787	Kit-Brake Shoe	1	1
	2026784	Kit-Adjuster (LH)	1	..
	2026785	Kit-Adjuster (RH)	..	1
	2026786	Kit-Hold Down	1	1
	1367876	Kit-Repair Wheel Cylinder	1	1
	2040957	Kit-Repair Wheel Cylinder	1	1

BRAKE PEDAL LINKAGE (FIGURE 9-2)

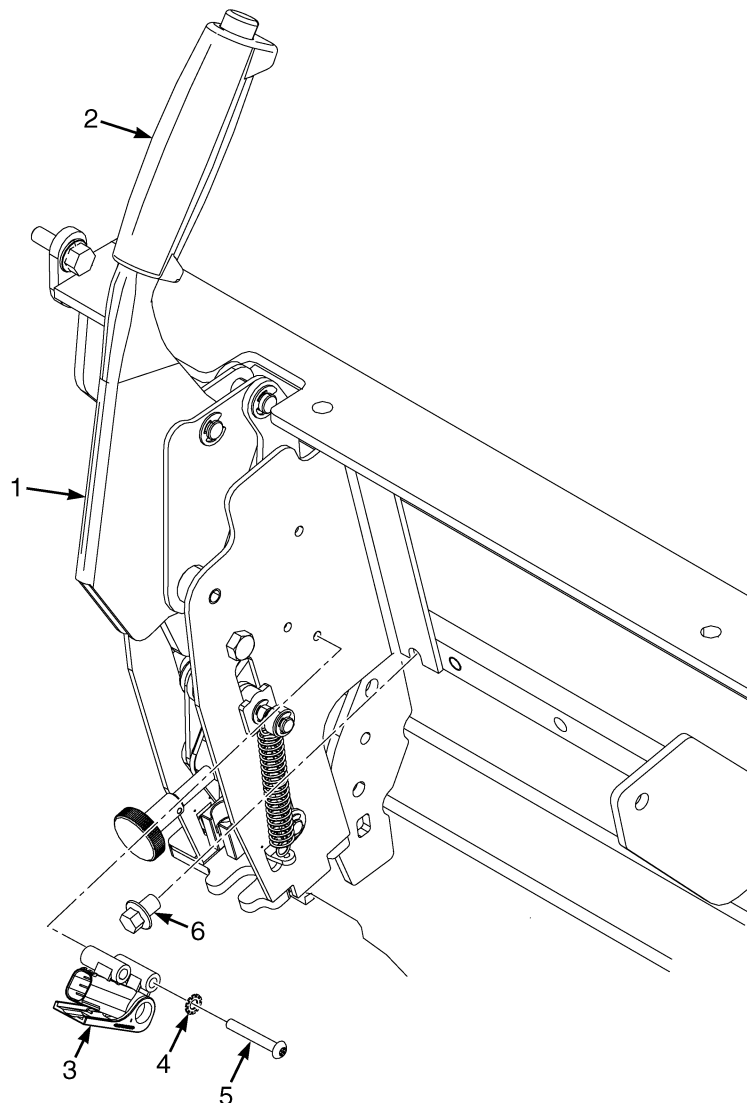


BP040147

BRAKE PEDAL LINKAGE

ITEM	PART NO.	DESCRIPTION	QTY
1	2314223	Reservoir	1
1	2021341	Cap	1
1	2077604	Tank	1
1	2021343	Packing	1
2	1510126	Screw (Button Head)	2
3	1307884		
	1514429	Nut	2
4	1699992	Mount	1
5	2021353	Holder	1
6	1502003	Hose Clamp	2
7	1531569	Hose	1
8	1543698	Clamp (Swivel)	1
9	1543842	Clamp	1
10	2059937	Hose Assy	1
11	4009385	Master Cylinder	1
12	1544153	Locknut	2
13	1527881	Capscrew	2
14	325897	Clamp	1
15	1527879	Capscrew	2
16	1688503	Mount	1
17	1683486	Sensor (Brake Position)	1
18	1701768	Screw	2
19	302398	Locknut	2
20	1529366	Capscrew	1
21	1556475	Bumper	1
22	239503	Nut	1
23	1534871	Bolt	1
24	1585575	Bushing	2
25	1704902	Capscrew	1
26	292668	Nut	2
27	1375391	Pin (Rod End)	1
28	1351689	Locking Cotter Pin	1
29	1707007	Brake Pedal	1
30	1570298	Rubber Pad	1
31	1568075	Spring (RH)	1
32	1594950	Bracket	1
	a 2111171	Wire Harness (Jumper) (Brake Sensor/Cowl Harness)	1
	2064554	Loctite	1

FOOTNOTES:**a** Not Illustrated

PARK BRAKE (FIGURE 9-3)

BP040148

PARK BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	b 1702933	Parking Brake Assembly	1
1	c 4039373	Parking Brake Assembly	1
2	b 1528799	Parking Brake Lever	1
2	1583915	Grip	1
2	c 4039366	Parking Brake Lever	1
3	1683486	Sensor (Brake Position)	1
4	296378	Washer	2
5	1701768	Screw	2
6	b 1529366	Capscrew	4
6	c 4011940	Capscrew	4
	a 2111171	Wire Harness (Jumper) (Brake Sensor/Cowl Harness)	1

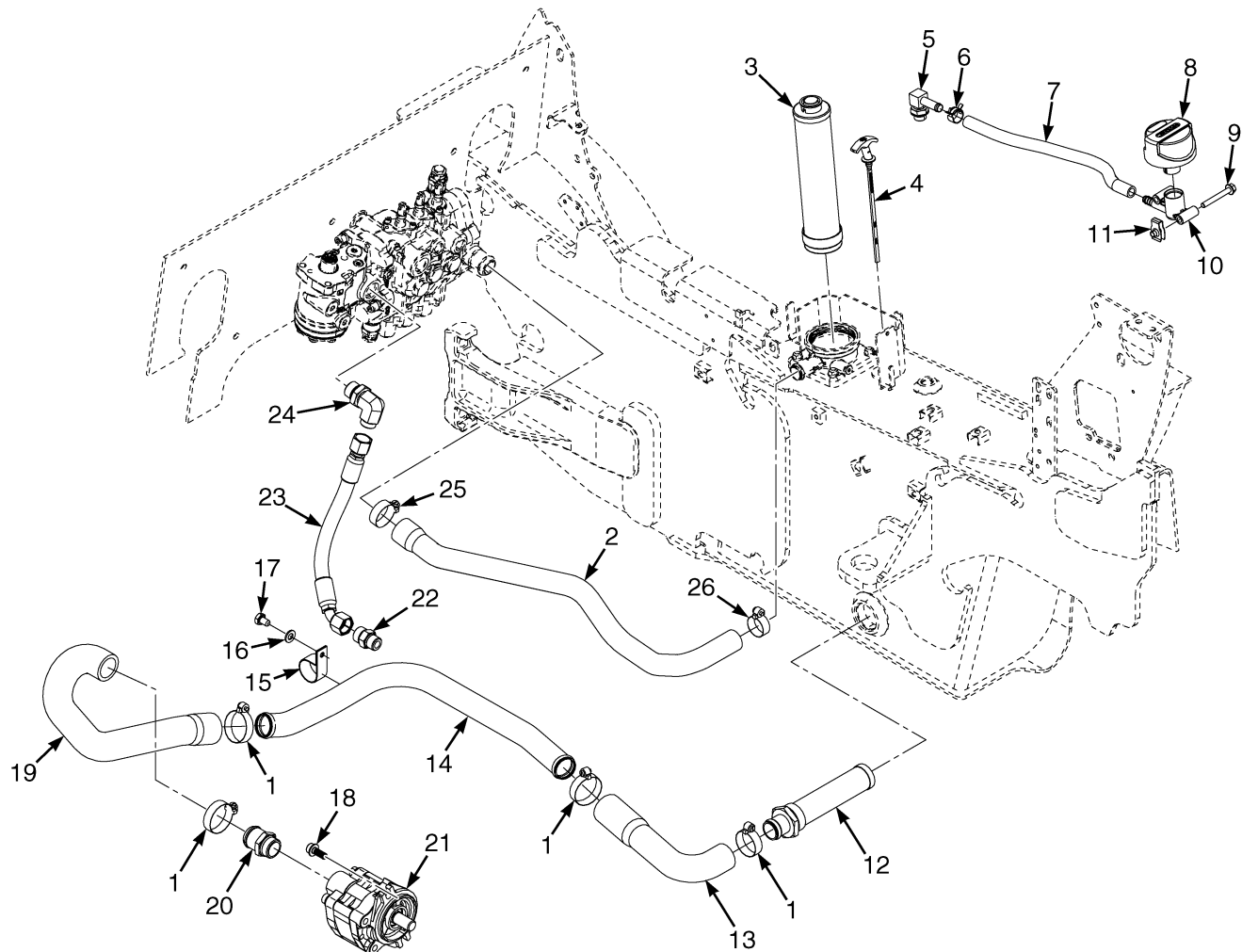
FOOTNOTES:**a** Not Illustrated**c** PENDING PER ECN 154238 →**b** → PENDING PER ECN 154238

[illegible]

SECTION 10
HYDRAULIC SYSTEM

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HYDRAULIC SUPPLY AND RETURN (FIGURE 10-1)

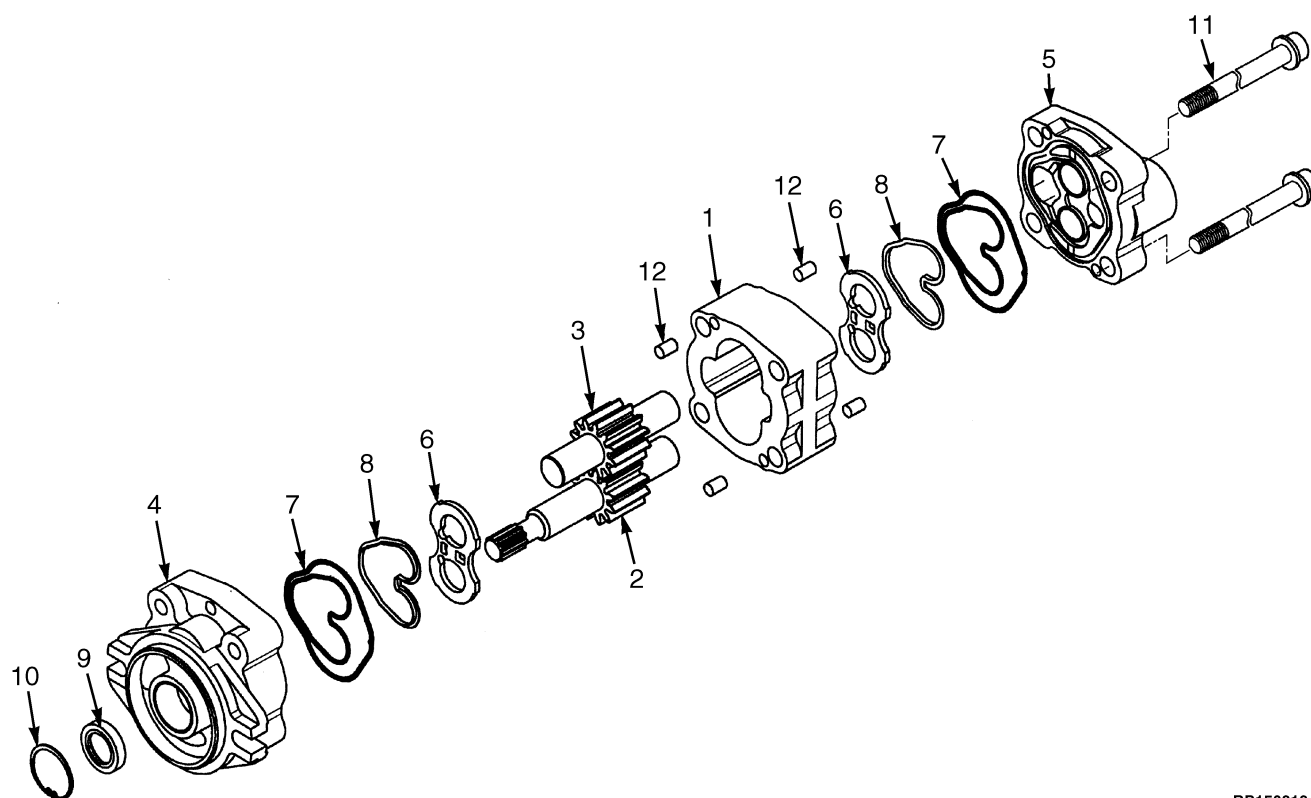


BP150400

HYDRAULIC SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	369804	Clamp	6
1	369804	Clamp (Alternate Part)	4
2	2111325	Hose (Return)	1
3	.....	Hydraulic Filter (☞ Figure 10-5).....	1
4	2060751	Dipstick	1
4	1580682	O-Ring	1
5	222510	Fitting	1
5	16484	O-Ring	1
6	1502007	Hose Clamp	1
7	1502123	Hose	1
7	127918	Hose (Optional)	1
8	1582161	Breather	1
8	16486	O-Ring	1
9	1510116	Capscrew	2
10	1582160	Adapter (Breather)	1
11	1393879	Nut	2
12	1624904	Strainer	1
12	16984	O-Ring	1
13	4605974	Hose	1
14	4604909	Tube	1
15	88585	Clamp	2
16	296420	Washer	2
17	292513	Capscrew	2
18	1564515	Capscrew	2
19	4605946	Hose	1
20	1568199	Adapter (Suction)	1
20	16487	O-Ring	1
21	2098694	Gear Pump (☞ Figure 10-2).....	1
22	1486749	Fitting	1
23	4612084	Hose Assy	1
24	1486751	Fitting	1
25	127045	Clamp (Hose) (Alternate Part)	1
26	2306118	Clamp (Alternate Part)	1
	a 264159	Adhesive	AR

FOOTNOTES:**a** Not Illustrated

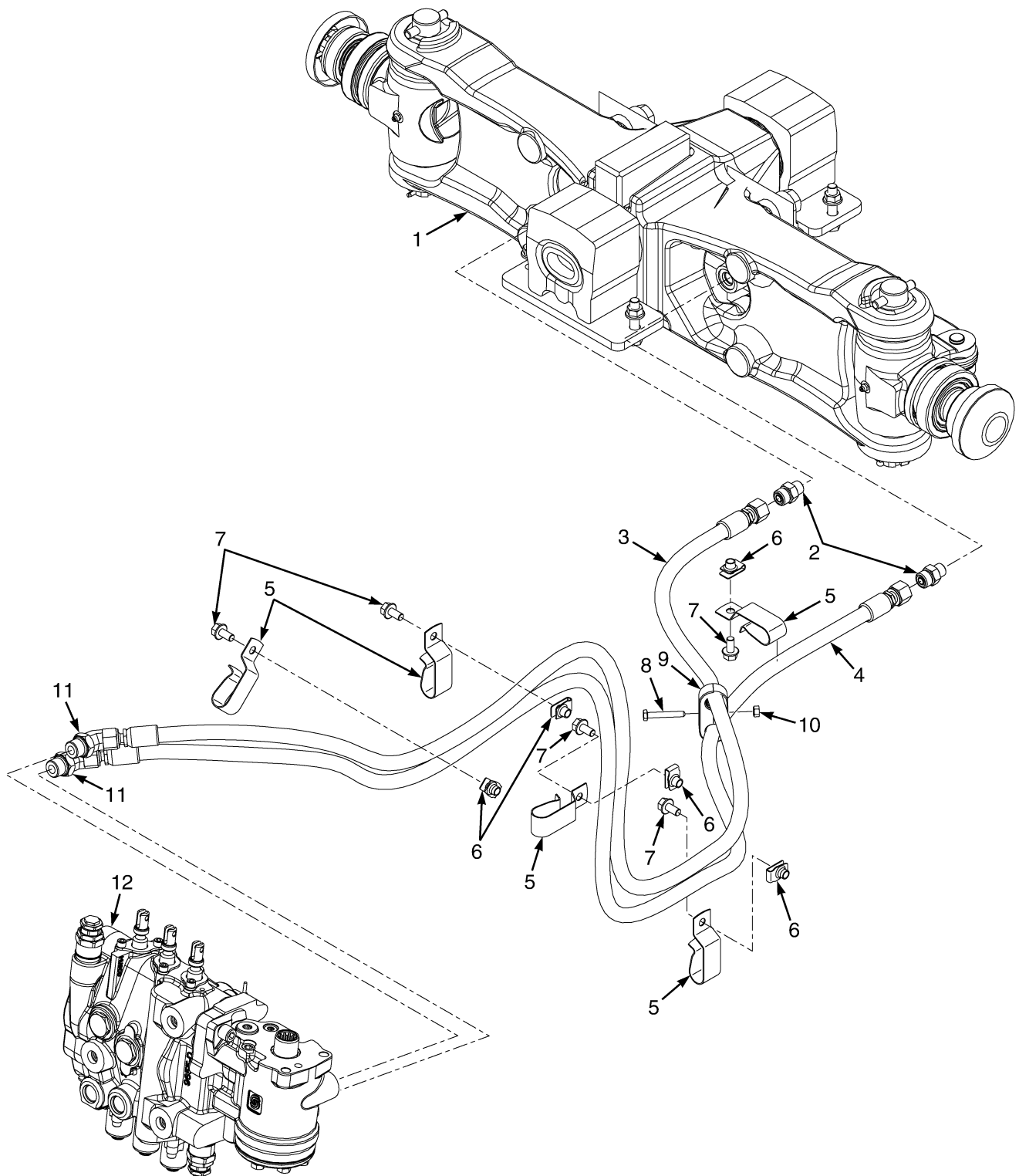
GEAR PUMP ASSEMBLY (FIGURE 10-2)

BP150212

GEAR PUMP ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	2098694	Gear Pump	1
1	.....	Gear Plate	1
2	.....	Drive Gear	1
3	.....	Driven Gear	1
4	1581536	Flange	1
5	1578665	Cover	1
6	1578673	Side Plate	2
7	.....	Plate Seal	2
8	.....	Back-Up Ring	2
9	.....	Oil Seal	1
10	.....	Snap Ring	1
11	1578671	Screw	4
12	1578672	Dowel	4
	1584987	Gear Set	1
	1465140	Kit-Seal	1

HYDRAULIC HOSES (FIGURE 10-3) STEERING

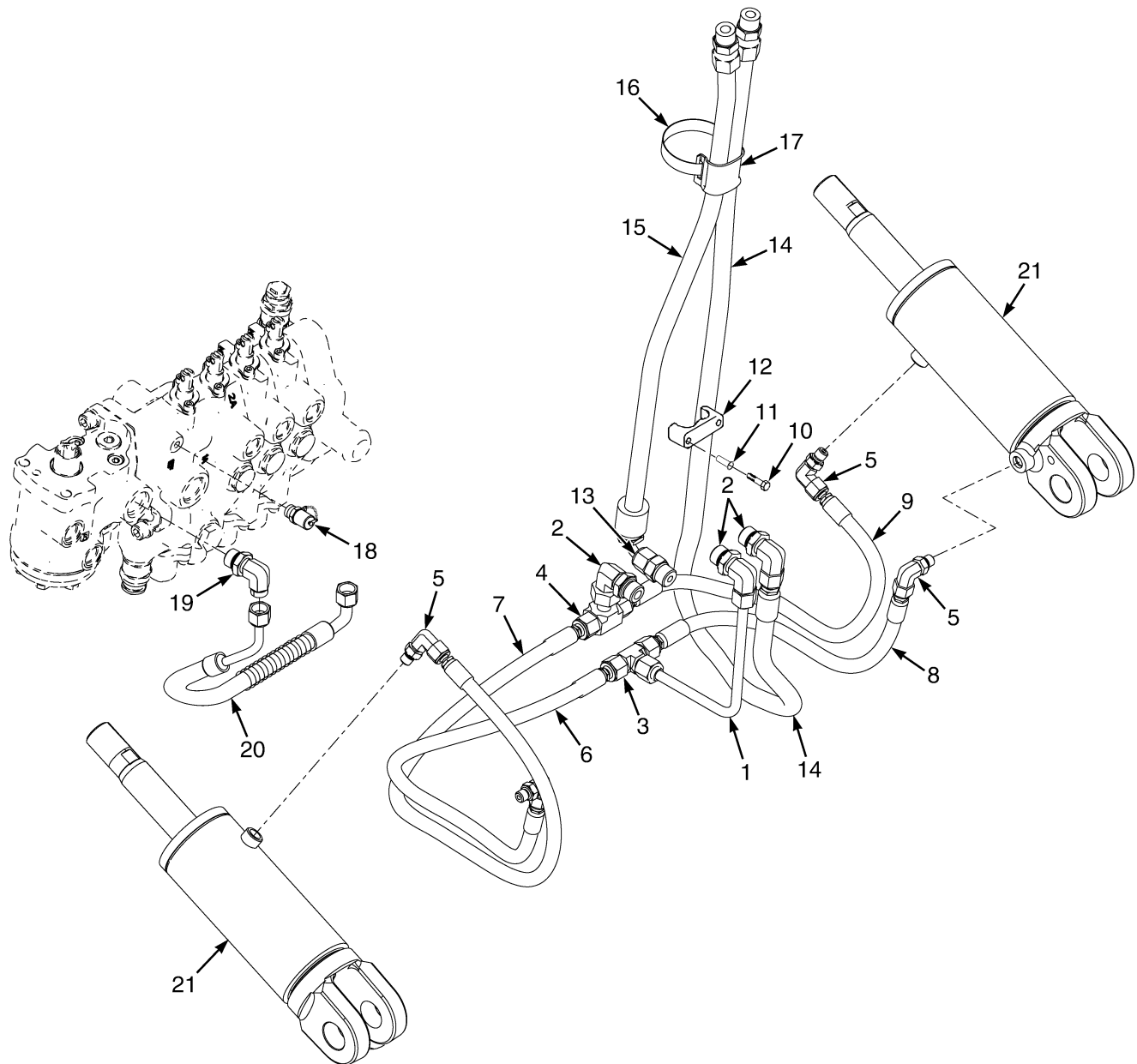


BP150379

**HYDRAULIC HOSES
STEERING**

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Steer Axle (☞Figure 8-4).....	1
2	1486740	Fitting	2
3	4602008		
	4612115	Hose Assy	1
4	4602007		
	4612114	Hose Assy	1
5	1544157	Clip	6
6	1480237	Nut	6
7	1527879	Capscrew	6
8	287844	Capscrew	1
9	1707283	Hose Clamp	1
10	313805	Nut	1
11	1516201	Fitting	2
11	4022958	Fitting (Alternate Part)	1
12	.....	Hydraulic Control Valve (☞Figure 10-9).....	1

TILT AND AUXILIARY HOSES (FIGURE 10-4)



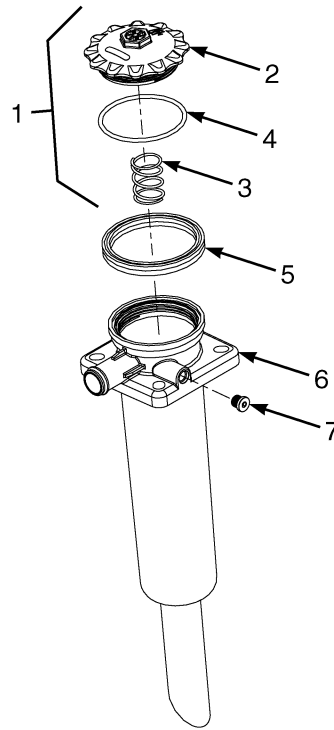
BP150391

TILT AND AUXILIARY HOSES

ITEM	PART NO.	DESCRIPTION	QTY
1	2066045	Tube Assy (Supply)	1
2	1487061	Fitting	3
2	1527816	O-Ring	1
2	16484	O-Ring	1
3	1522425	Fitting	1
4	1488464	Fitting	1
5	1487058	Fitting	4
6	2066783	Hose Assy (Tilt)	1
6	2066044	Hose Assy (Tilt) (Alternate)	1
7	4605113	Hose Assy (Tilt)	1
8	4605115	Hose Assy (Tilt)	1
9	4605114	Hose Assy (Tilt)	1
10	293796	Capscrew	2
11	1531558	Insert	2
12	1631196	Clamp	1
13	1486742	Fitting	1
14	2073495	Hose Assy (Third Function)	1
15	2065051	Hose Assy (Third Function)	1
16	1617657	Clamp	1
17	1477996	Hose Clamp	1
18	2061646	Fitting (Diagnostic)	1
19	1487069	Fitting	1
20	4605116	Hose Assy (Hoist)	1
21	.....	Tilt Cylinder (RH) (☞ Figure 10-7).....	1
21	.....	Tilt Cylinder (LH) (☞ Figure 10-7).....	1
	a 1529016	Fitting	2
	a 1556898	Plug	1

FOOTNOTES:**a** Not Illustrated

HYDRAULIC FILTER HOUSING (FIGURE 10-5)

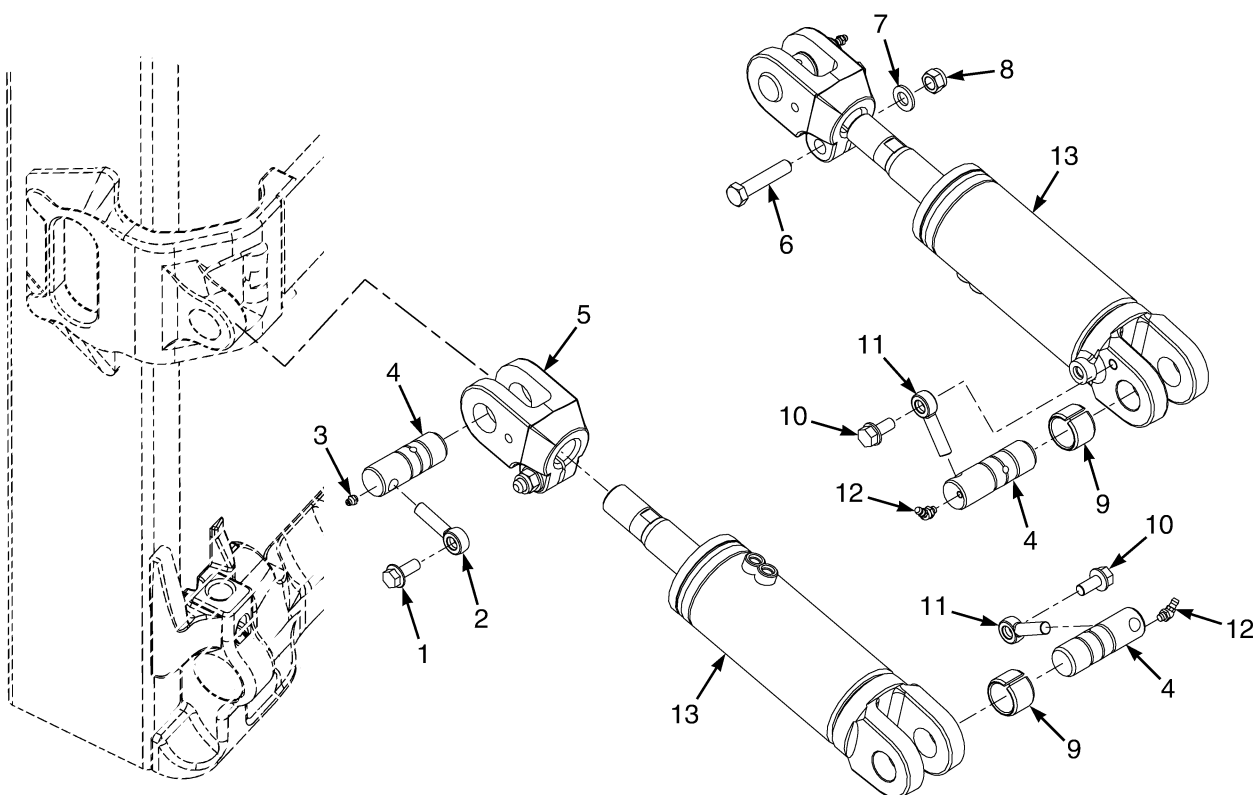


BP150392

ITEM	PART NO.	DESCRIPTION	QTY
	4007765	Hydraulic Filter Housing Assembly	1
	4000256	Hydraulic Filter Assembly (Alternate Part)	1
1	1676341	Cover Assembly	1
1	4000257	Hydraulic Filter (Head Assembly)(Alternate Part)	1
2	.....	Lid	1
2	1570343	Filter Head	1
3	.....	Spring	1
4	.....	Seal	1
5	.....	Quad Ring	1
6	4014351	Bowl	1
6	4000258	Hydraulic Filter (Bowl Assembly) (Alternate Part)	1
6	1570347	Filter Can (Alternate Part)	1
6	4000997	Filter (Alternate Part)	1
7	222442	Fitting	1
	1676342	Kit-Seal	1
a	2099416	Element (Filter)	1
a	1382472	.....	
	1502543	Nut (Flange)	4

FOOTNOTES:

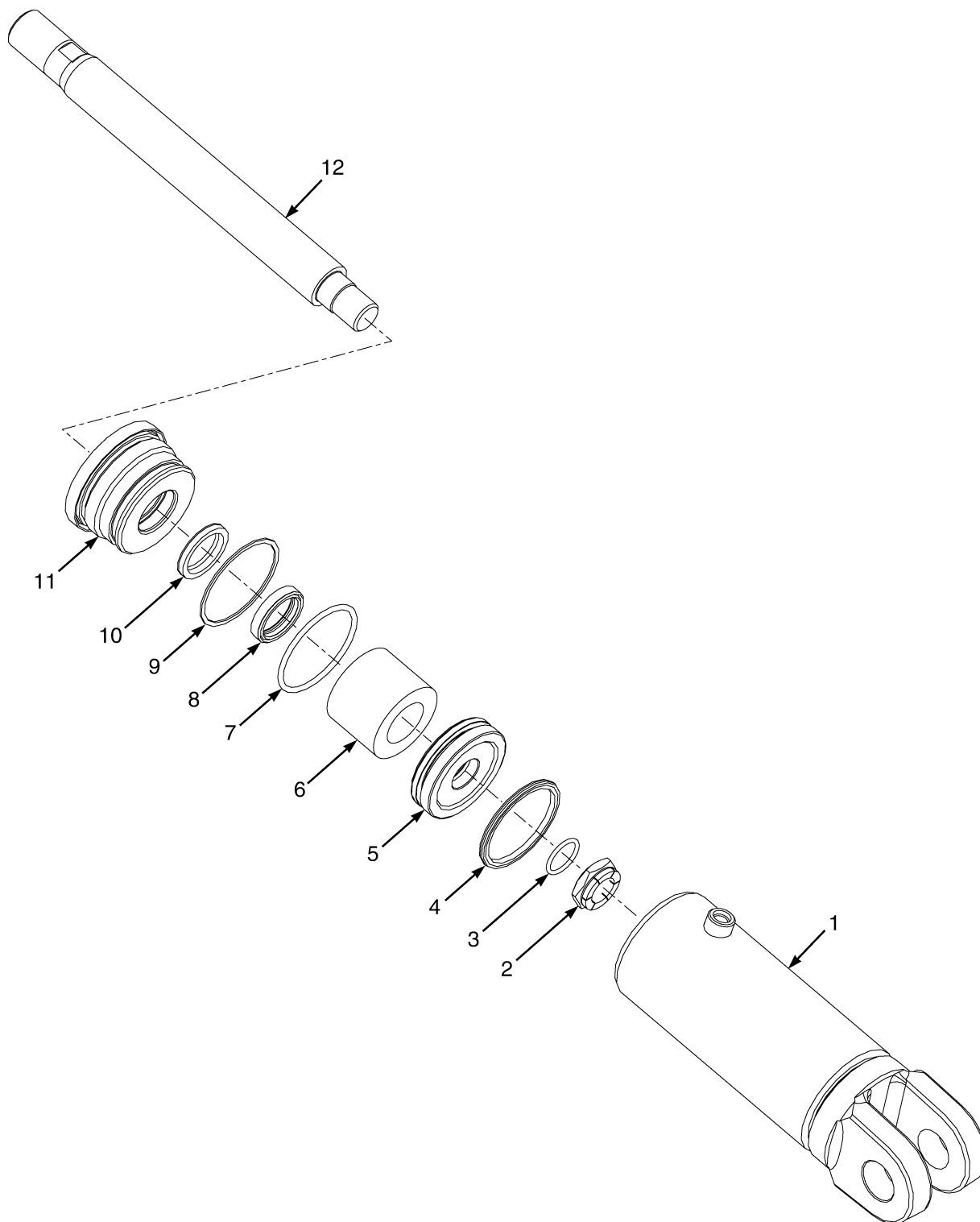
a Not Illustrated

TILT CYLINDER AND MAST INSTALLATION (FIGURE 10-6)

BP150381

ITEM	PART NO.	DESCRIPTION	QTY
1	1510117	Capscrew	2
2	1533494	Pin Anchor	4
3	16041	Grease Fitting	2
4	4005800	Pin	2
5	4004549	Rod End	2
6	1597381	Capscrew	2
7	1581852	Washer	2
8	1581848	Nut	2
9	300982	Bushing	2
10	1586013	Capscrew	2
11	4006049	Pin	2
12	16040	Grease Fitting	2
13	.....	Tilt Cylinder (☞ Figure 10-7).....	2

TILT CYLINDER ASSEMBLY (FIGURE 10-7)

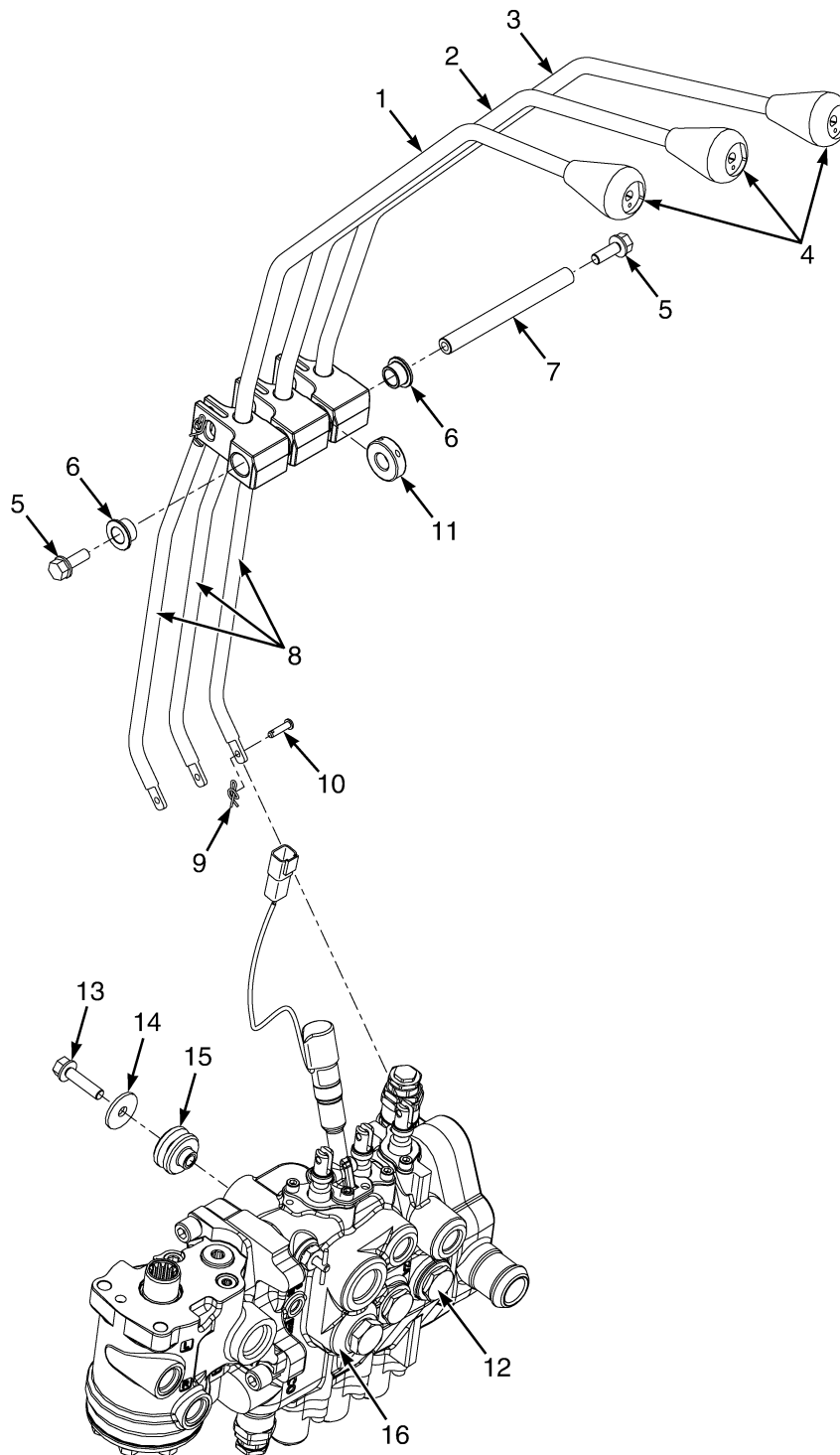


BP230004

TILT CYLINDER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4601682	Tilt Cylinder	2
1	4601850	Tube Wldmt-Cylinder	1
2	2302899	Locknut	1
4	2044370	Piston Seal	1
5	1338741	Piston	1
6	1389592	Spacer	1
7	46388	O-Ring	1
8	1381082	Rod Seal	1
9	154375	Back-Up Ring	1
10	1383062	Rod Wiper	1
11	1338744	Gland	1
12	.....	Cylinder Rod	1
	186061	Lubricant	AR

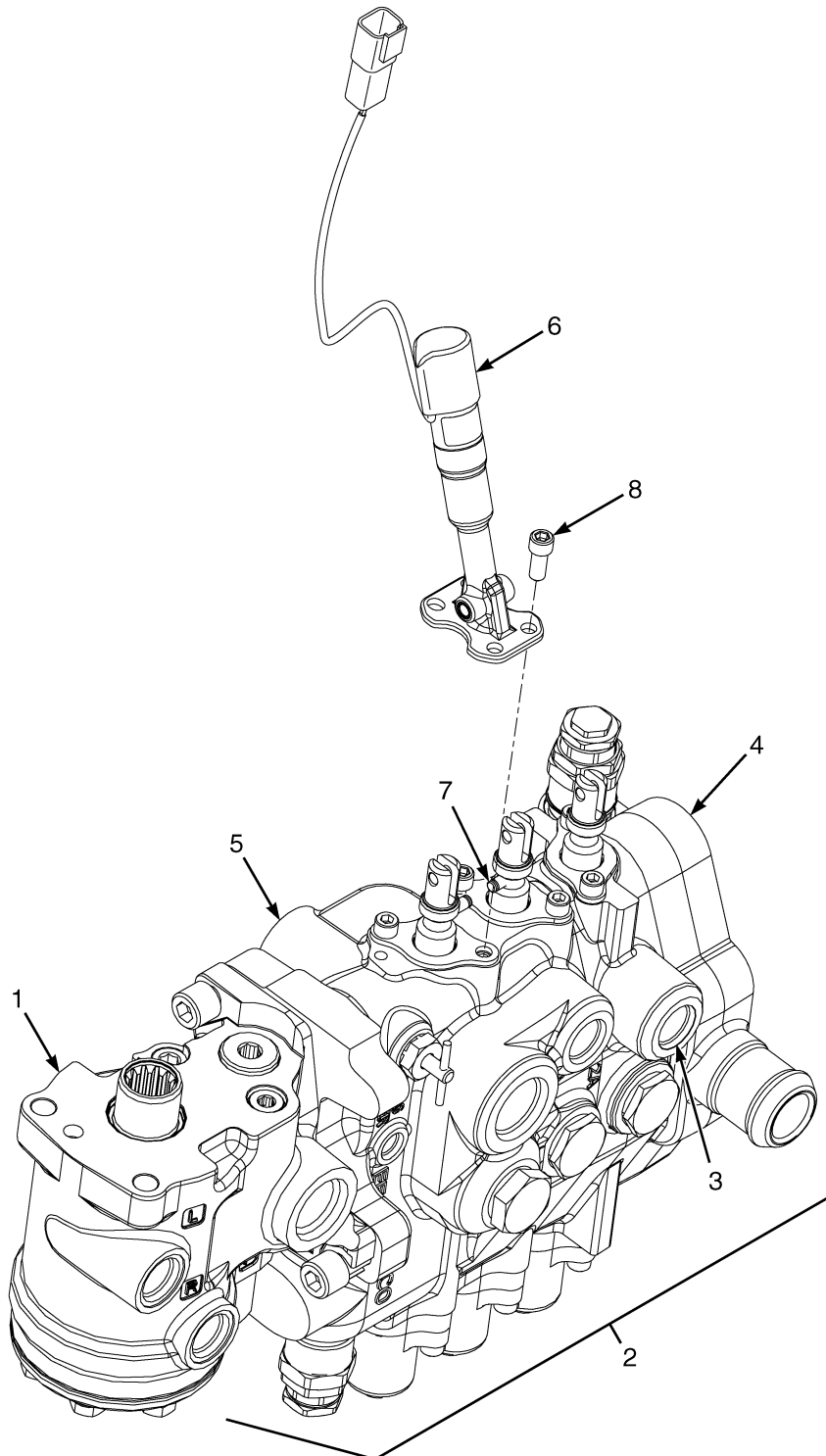
HAND LEVERS (FIGURE 10-8) 2 AND 3 FUNCTION



BP150382

**HAND LEVERS
2 AND 3 FUNCTION****KEY:****A: 2 Lever/Function****B: 3 Lever/Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2099393	Lever (Lift)	1	1
2	2099394	Lever (Tilt)	1	1
3	2099395	Lever (Auxiliary One)	..	1
4	1517395	Knob	2	3
5	1583611	Capscrew	2	2
6	1564747	Bushing	4	6
7	1670292	Shaft	1	1
8	1662420	Link	2	3
9	1517361	Locking Ring Cotter Pin	4	6
10	309109	Pin	4	6
11	1309475	Collar	1	..
12	235691	Fitting	2	..
13	1586627	Capscrew	3	3
14	1346752	Washer	3	3
15	2063991	Isolator	3	3
16	2105869	Hydraulic Control Valve (Manual) (☞Figure 10-9).....	1	1

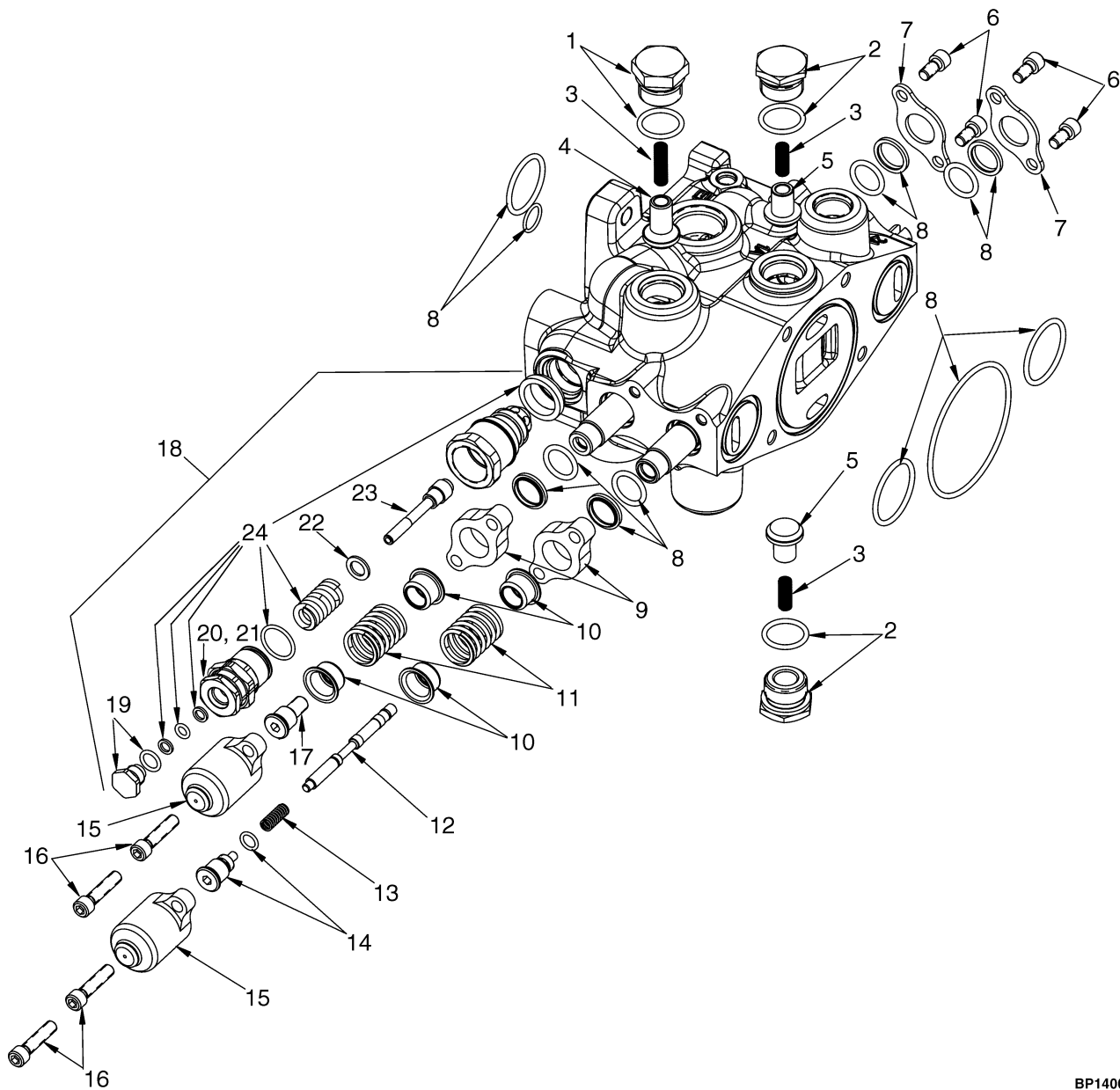
HYDRAULIC CONTROL VALVE (FIGURE 10-9)
MANUAL — 3 FUNCTION

BP150384

**HYDRAULIC CONTROL VALVE
MANUAL – 3 FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	2105869	Hydraulic Control Valve (Manual)	1
1	2056868	Steering Control Unit (☞ Figure 10-13).....	1
2	2105879	Hydraulic Control Valve	1
3	1670463	Valve Section (Aux.) (☞ Figure 10-11).....	1
4	1578746	Valve Section (Outlet) (☞ Figure 10-12).....	1
5	1702420	Valve Section (Lift And Tilt) (☞ Figure 10-10).....	1
6	1683529	Solenoid Assembly (Double Function)	1
7	1670413	Needle Roller	2
8	18748	Capscrew	2

VALVE ASSEMBLY, LIFT AND TILT (FIGURE 10-10) MANUAL CONTROL VALVE — THREE FUNCTION

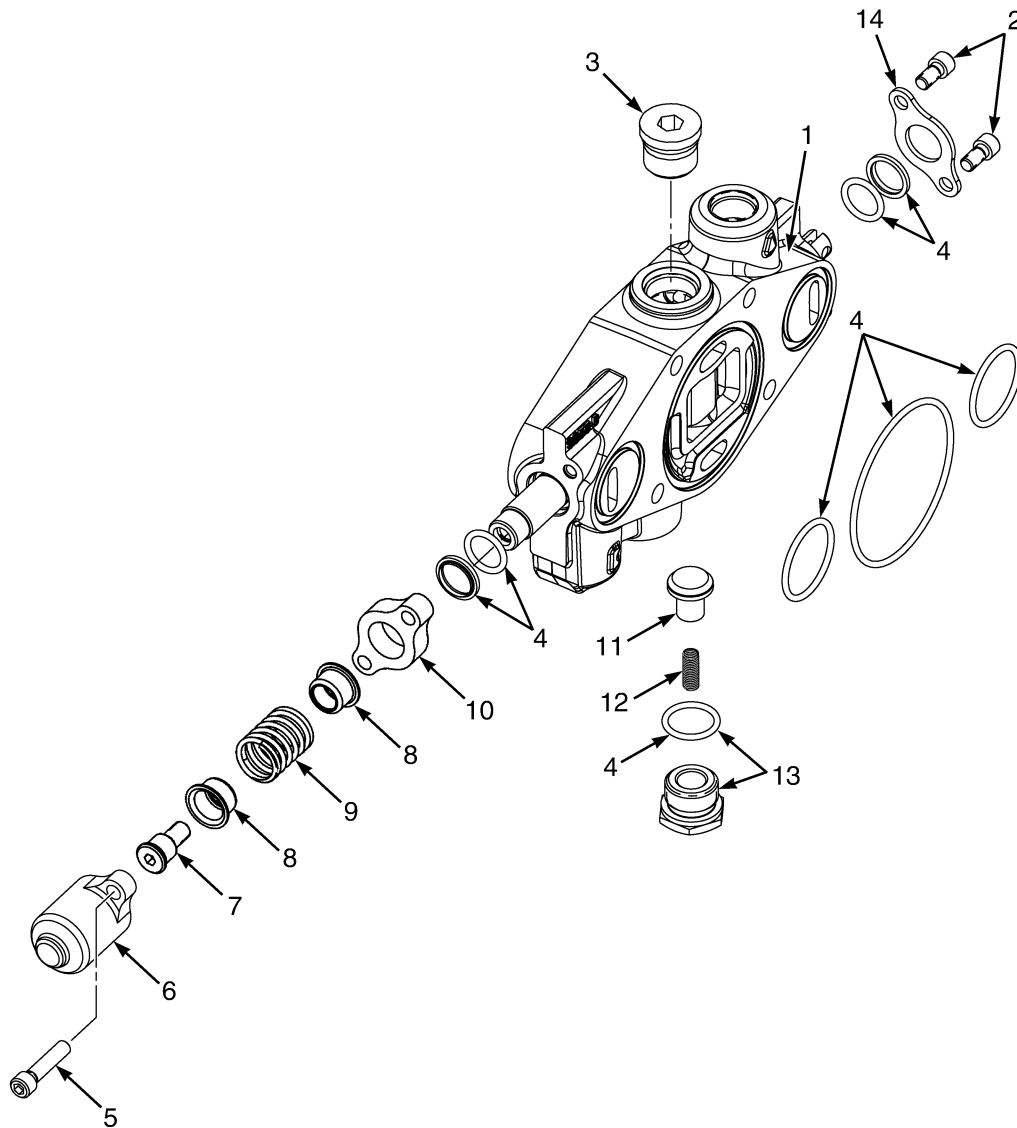


BP140046

**VALVE ASSEMBLY, LIFT AND TILT
MANUAL CONTROL VALVE – THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	1702420	Valve Section (Lift And Tilt)	1
1	1578713	Plug	2
2	1578940	Plug	1
3	77442	Spring	3
4	1578943	Poppet	1
5	77443	Poppet	2
6	16706	Screw	4
7	188515	Plate	2
8	1670445	Kit-Seal (Lift and Tilt)	1
9	1560682	Plate	2
10	320289	Spring Seat	4
11	1581860	Spring	2
12	1581861	Piston	1
13	341462	Spring	1
14	386015	Spool End	1
15	1560681	Cap	2
16	1628746		
	1578705	Capscrew	4
17	1581859	Spool End	1
18	1578747	Relief Valve (3100 PSI) (Main Relief) (Low Relief)	1
18	1578748	Relief Valve (3400 PSI) (Main Relief) (High Relief)	1
19	.....	Plug	1
20	.....	Screw	1
21	.....	Nut	1
22	.....	Washer	1
23	.....	Poppet	1
24	1580097	Kit-Seal	1

VALVE ASSEMBLY, AUXILIARY (FIGURE 10-11) MANUAL CONTROL VALVE — THREE FUNCTION

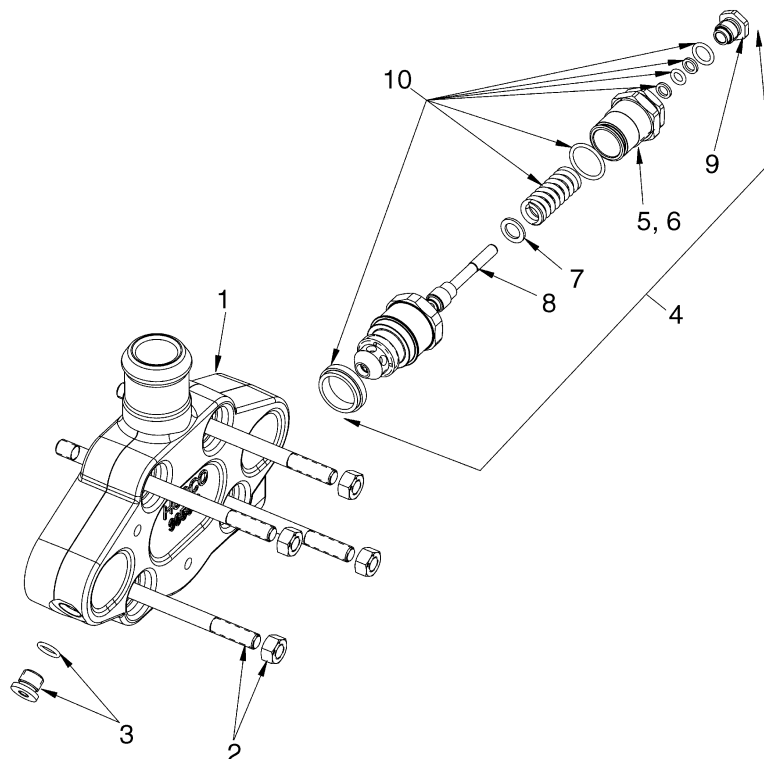


BP150383

**VALVE ASSEMBLY, AUXILIARY
MANUAL CONTROL VALVE – THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1670463	Valve Section	1
2	16706	Screw	2
3	1578714	Plug	1
4	1580147	Kit-Seal (Auxiliary Functions)	1
5	1628746		
	1578705	Capscrew	2
6	1560681	Cap	1
7	1581859	Spool End	1
8	320289	Spring Seat	2
9	1581860	Spring	1
10	1560682	Plate	1
11	77443	Poppet	1
12	77442	Spring	1
13	1578713	Plug	1
14	188515	Plate	1
	1670434	Kit-Seal (Three Function)	1

VALVE ASSEMBLY, OUTLET SECTION (FIGURE 10-12) MANUAL CONTROL VALVE — THREE FUNCTION



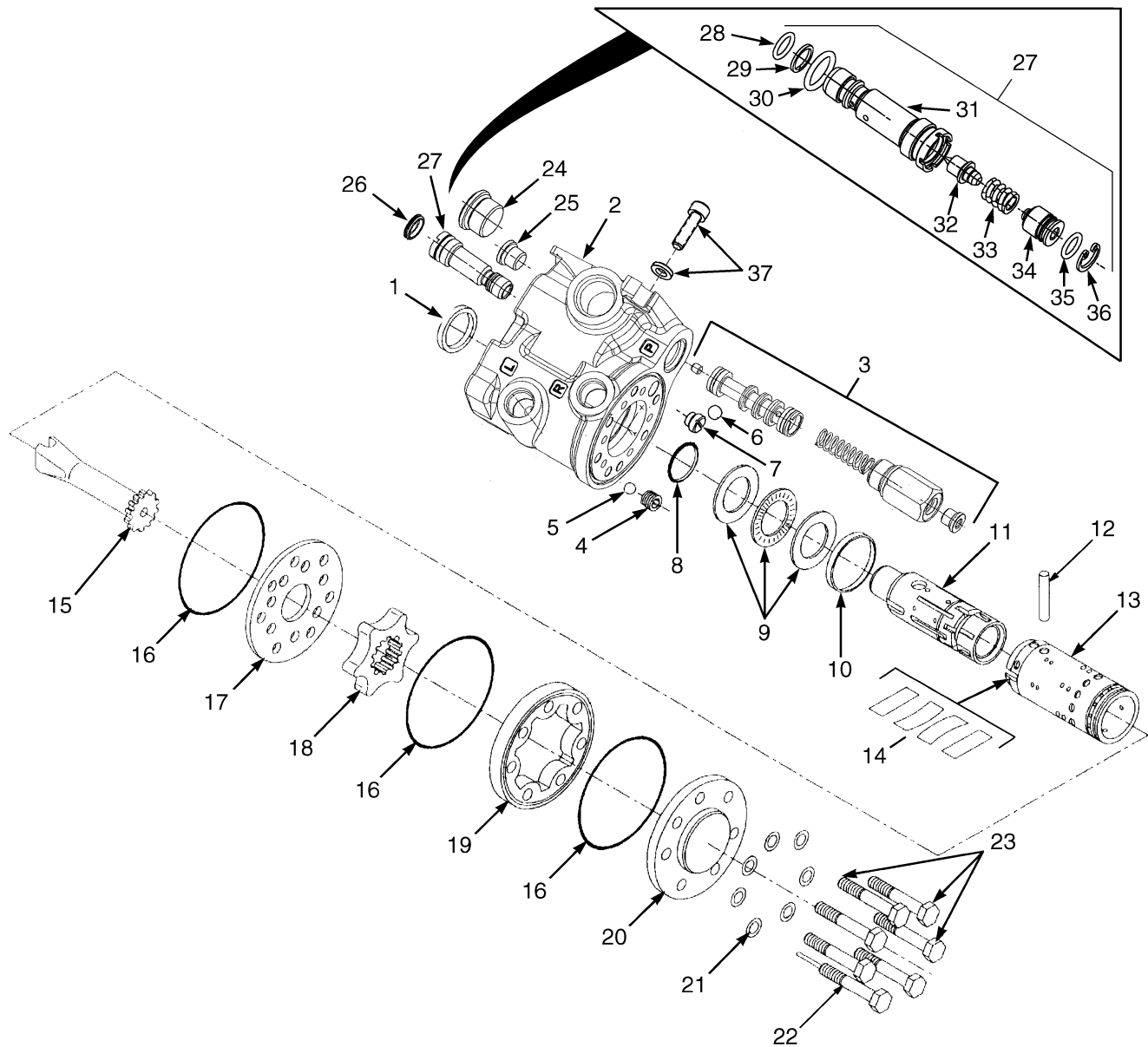
BP140048

ITEM	PART NO.	DESCRIPTION	QTY
1	1578746	Valve Section	1
2	1580155	Kit-Tie Rod (Three Function)	1
2	15055	Nut	4
3	.....	Plug	1
4	1578707	Relief Valve (2250 PSI) (Secondary)	1
5		Nut	1
6		Screw	1
7		Washer	1
8		Poppet	1
9		Plug	1
10	1580131	Kit-Seal	1

NOTES

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STEERING CONTROL UNIT (FIGURE 10-13)



BP220056

STEERING CONTROL UNIT

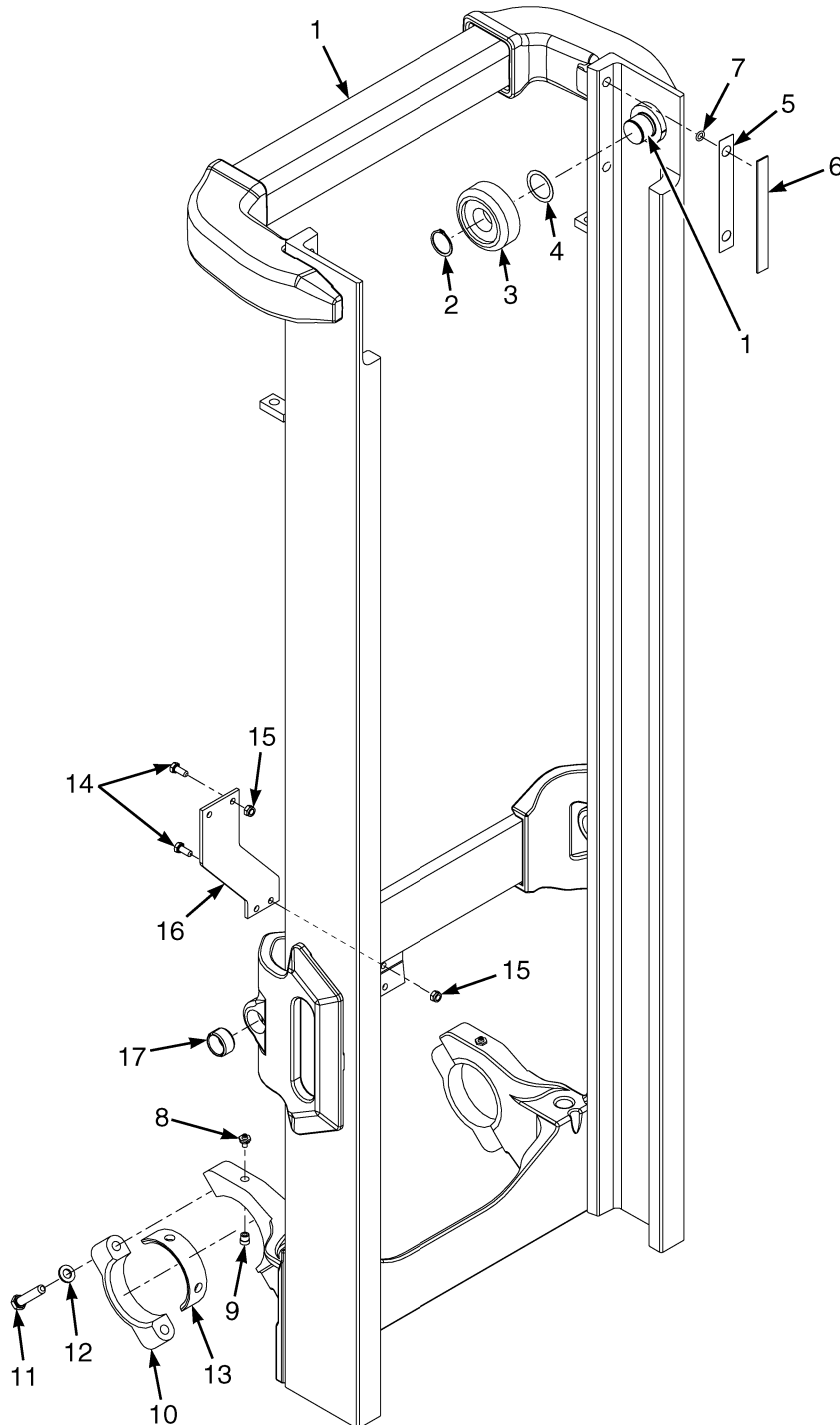
ITEM	PART NO.	DESCRIPTION	QTY
	2056868	Steering Control Unit	1
1		Dust Seal	1
2		Housing	1
3		Relief Valve	1
4		Bushing	1
5		Check Ball	1
6		Check Ball	1
7		Seat	1
8		O-Ring	1
9		Bearing Set	1
10		Ring	1
11		Spool	1
12		Pin	1
13		Sleeve	1
14		Spring Set	1
15		Shaft	1
16		O-Ring	3
17		Plate	1
18		Gear 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		O-Ring	1
29		Back-Up Ring	1
30		O-Ring	1
31		Cartridge	1
32		Seat	1
33		Spring	1
34		Plug	1
35		Anti-Tamper Ring	1
36		Snap Ring	1
37	1581858	Kit-Capscrew	1
	1579908	Kit-Seal	1

[illegible]

SECTION 11
MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
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THREE STAGE FULL FREE-LIFT	11-20
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INTERMEDIATE MAST AND MAIN LIFT	11-4
OUTER MAST	11-2

MAST ASSEMBLY (FIGURE 11-1) OUTER MAST



BP170452

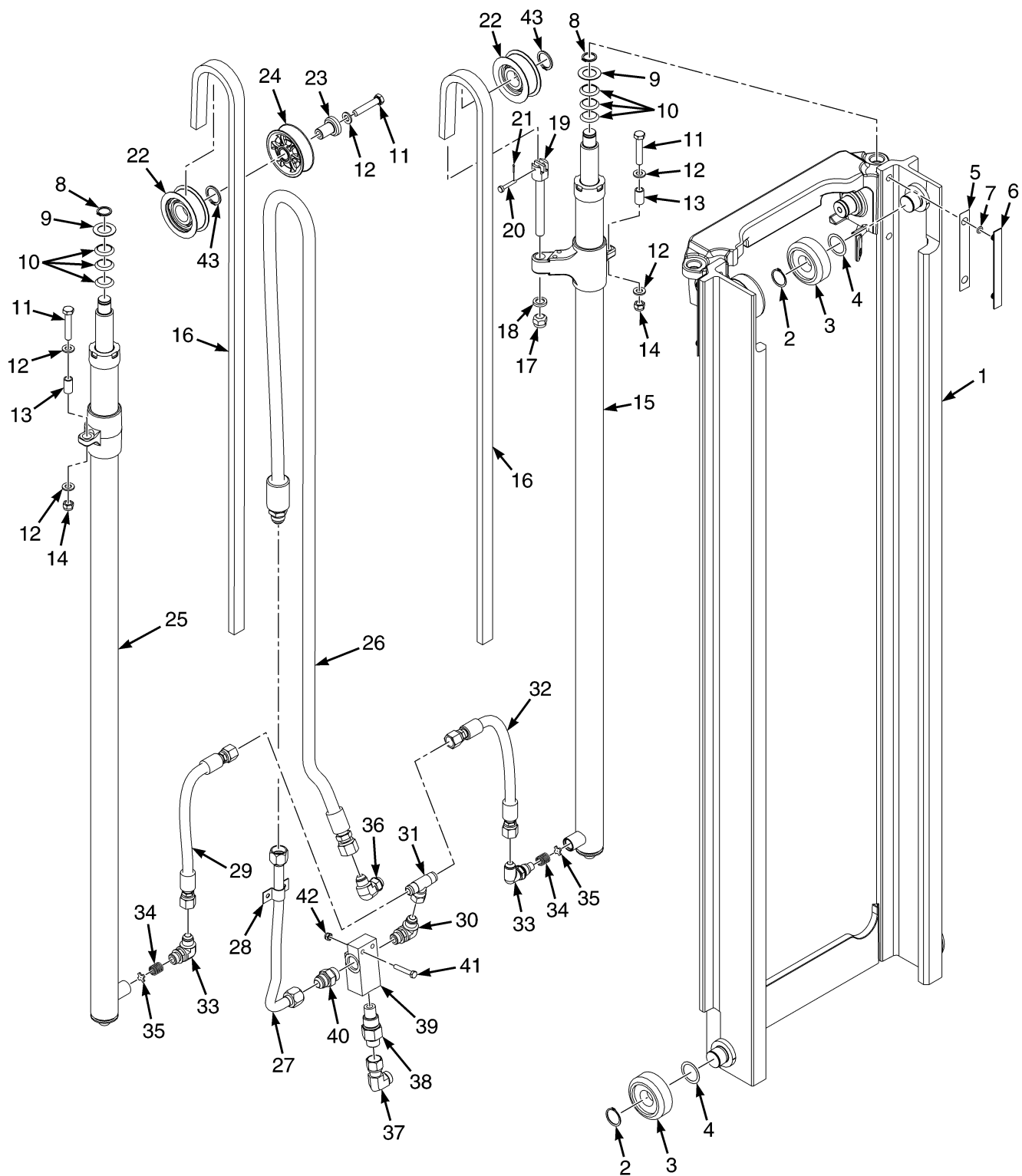
**MAST ASSEMBLY
OUTER MAST****A698**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Mast Assy	4606821	4606822	4609285
1	Outer Mast	4606808	4606809	4606810

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
1	1345216	Stubshaft	2
2	58901	Snap Ring	1
3	1333399	Load Roller ("B") (3.63 in./3.62 in.)	2
3	1395169	Load Roller ("A") (3.61 in./3.60 in.) (Optional)	2
4	129387	Shim (0.020 in.)	AR
5	131716	Shim (0.020 in.)	AR
6	215212	Wear Strip	2
7	104506	O-Ring	2
8	16002	Grease Fitting	2
9	1646820	Plug	2
10	4017567	Trunnion	2
11	1597381	Capscrew	4
12	1581852	Washer	4
13	4015724	Bushing	2
14	1581580	Capscrew	2
15	1581566	Nut	4
16	4017624	Plate	1
17	1348185	Bushing	2

FOOTNOTES:**a** Refer to Table

MAST ASSEMBLY (FIGURE 11-2) INTERMEDIATE MAST AND MAIN LIFT



BP170451

MAST ASSEMBLY
INTERMEDIATE MAST AND MAIN LIFT**A698**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Mast Assy	4606821	4606822	4609285
1	Intermediate Mast	1352957	4018639	1352961
15	Cylinder Assy (LH)	4606969	4606968	4606967
16	Chain	986559	223389	986599
25	Cylinder Assy (RH)	4606970	4606966	4606965
26	Hose Assy	4601741	4601742	4601743

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Intermediate Mast	1
1	1345216	Stubshaft	4
2	58901	Snap Ring	4
3	1333399	Load Roller ("B") (3.63 in./3.62 in.)	4
3	1395169	Load Roller ("A") (3.61 in./3.60 in.) (Optional)	4
4	129387	Shim (0.020 in.)	AR
5	131716	Shim (0.020 in.)	2
6	215212	Wear Strip	2
7	104506	O-Ring	4
8	131358	Snap Ring	2
9	1333382	Washer (0.060 in.)	2
10	1354915	Washer (0.010 in.)	2
10	1354916	Washer (0.030 in.)	2
10	1354917	Washer (0.060 in.)	2
11	1581829	Capscrew	3
12	1581852	Washer	5
13	323090	Spacer	2
14	1581849	Nut	2
15	a	Cylinder Assy (LH)	1
16	a	Chain	1
17	161003	Nut	2
18	297649	Ring	2
19	1369357	Chain Anchor	2
20	1514866	Pin	2
21	15211	Cotter Pin	2
22	1379685	Chain Sheave	2
23	1360534	Stubshaft	1
23	1360547	Stubshaft	1
24	1343989	Hose Sheave	1
25	a	Cylinder Assy (RH)	1
26	a	Hose Assy	1
27	1376322	Tube Assy	1

MAST ASSEMBLY
INTERMEDIATE MAST AND MAIN LIFT

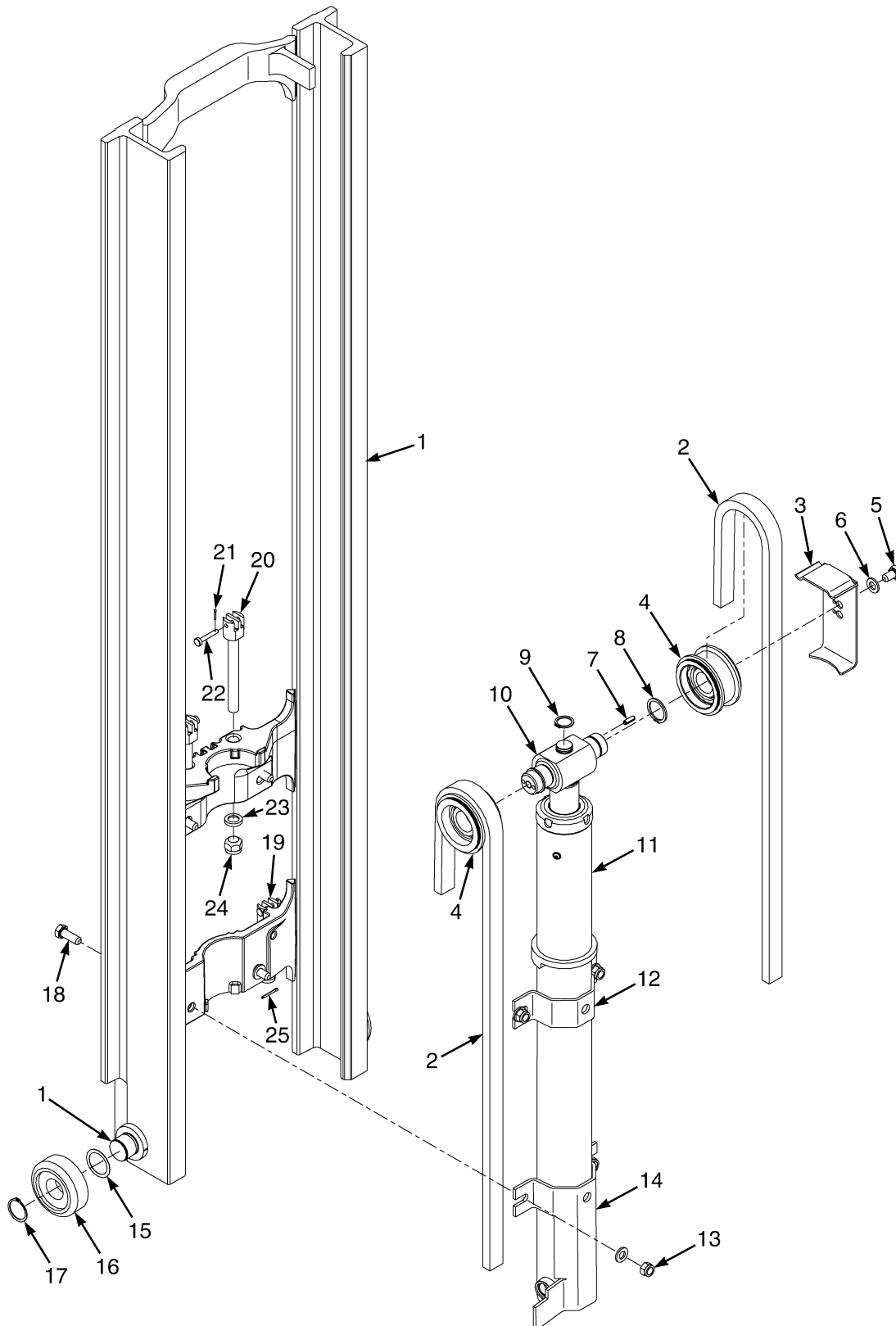
ITEM	PART NO.	DESCRIPTION	QTY
28	1363251	Clamp	1
29	1462551	Hose Assy	1
30	16560	Fitting	1
31	17051	Fitting	1
32	1345403	Hose Assy	1
33	189595	Fitting	2
34	120938	Spring	2
35	323160	Washer	2
36	4607118	Valve	1
37	1486773	Fitting	1
38	1481348	Lowering Control Valve	1
39	1333392	Housing (Lowering Control)	1
40	16543	Connector	1
41	1581583	Capscrew	2
42	1581566	Nut	2
43	304526	Snap Ring	2

FOOTNOTES:**a** Refer to Table

NOTES

[illegible]

MAST ASSEMBLY (FIGURE 11-3) INNER MAST AND FREE-LIFT



BP170450

MAST ASSEMBLY
INNER MAST AND FREE-LIFT**A698**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Mast Assy	4606821	4606822	4609285
1	Inner Mast	1352857	1352884	1352861
2	Chain	197345	88431	135619
11	Cylinder Assy	4606840	4606841	4606842

KEY:**A: w/ 3rd Function Header Hose****B: w/o 3rd Function Header Hose**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Mast Assy	1	1
1	a	Inner Mast	1	1
1	1345216	Stubshaft	4	4
2	a	Chain	1	1
3	1395285	Chain Guard	1	2
4	1379682	Chain Sheave Assembly	1	1
4	1378692	Chain Sheave	2	2
4	37752	Snap Ring	1	1
4	1378699	Ball Bearing	1	1
5	1581589	Capscrew	1	2
6	1581852	Washer	5	6
7	302461	Roll Pin	1	2
8	304526	Snap Ring	2	2
9	131358	Snap Ring	2	2
10	1378690	Crosshead	1	1
11	a	Cylinder Assy	1	1
12	1489972	Bracket	1	1
13	1581849	Nut	4	4
14	1573677	Guard	1	1
15	129387	Shim (0.020 in.)	2	2
16	1333399	Load Roller ("B") (3.63 in./3.62 in.)	2	2
16	1395169	Load Roller ("A") (3.61 in./3.60 in.) (Optional)	2	2
17	58901	Snap Ring	2	2
18	1596404	Capscrew	4	4
19	1365140	Chain Anchor	2	2
20	1369357	Chain Anchor	2	2
21	15211	Cotter Pin	4	4
22	1514866	Pin	4	4
23	297649	Ring	4	4
24	161003	Nut	4	4
25	15223	Cotter Pin	2	2

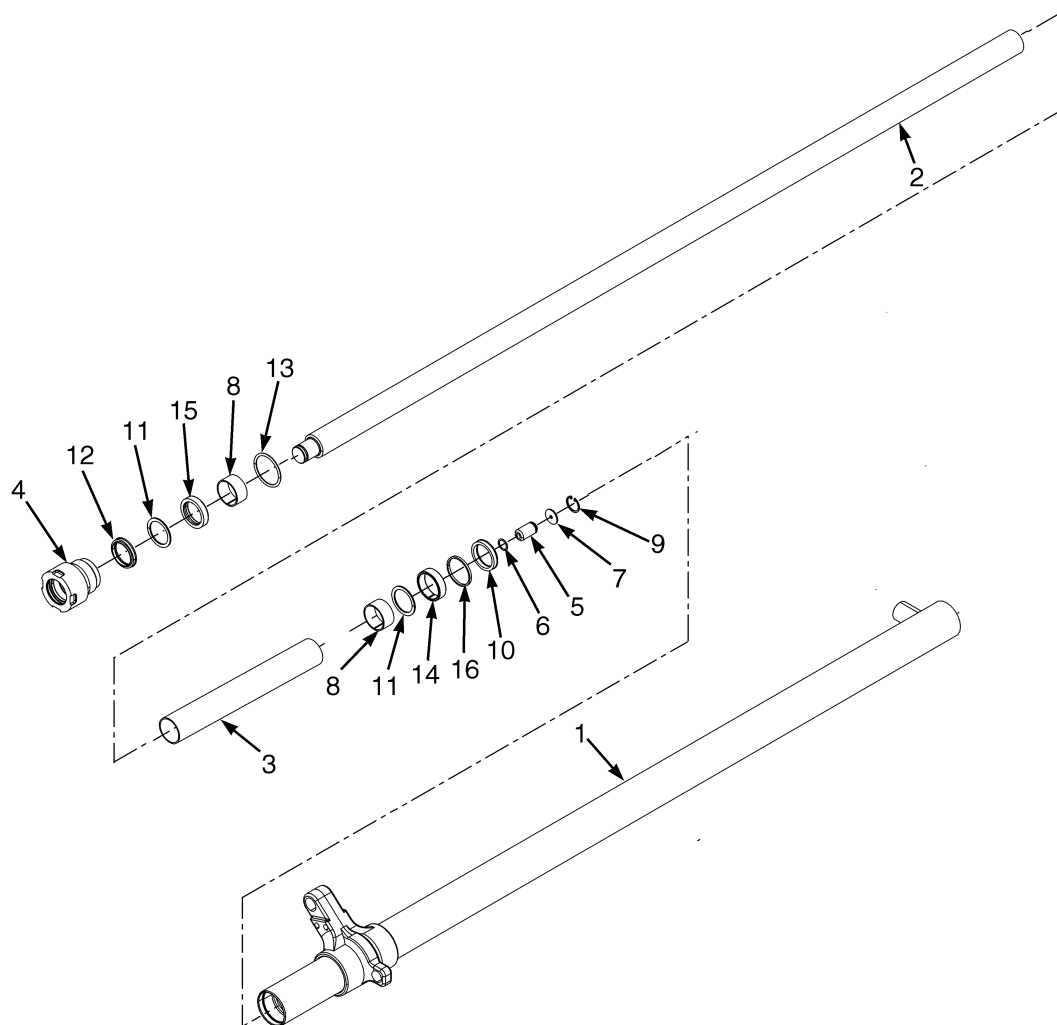
FOOTNOTES:

- a** Refer to Table

NOTES

[illegible]

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



BP170151

**MAIN LIFT CYLINDER ASSEMBLY
THREE STAGE FULL FREE LIFT****LEFT HAND**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8803211	8803212	8803213
	Cylinder Assy	4606969	4606968	4606967
1	Tube Wldmt- Cylinder	4606922	4606923	4606924
2	Rod	4606962	4606963	4606964
3	Spacer	2310682	2310682	2310682

RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8803214	8803215	8803216
	Cylinder Assy	4606970	4606966	4606965
1	Tube Wldmt- Cylinder	4606925	4606926	4606927
2	Rod	4606962	4606963	4606964
3	Spacer	2310682	2310682	2310682

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	a	Tube Wldmt-Cylinder	1
2	a	Rod	1
3	a	Spacer	1
4	1371653	Gland	1
5	257913	Check Valve	1
6		O-Ring	1
7	297531	Washer	1
8	322902	Wear Ring	1
9	187388	Snap Ring	1
10	330692	Rod Seal	1
11	322824	Back-Up Ring	2
12	1319668	Rod Wiper	1
13	55407	O-Ring	1
14	1362871	Wear Ring	1

**MAIN LIFT CYLINDER ASSEMBLY
THREE STAGE FULL FREE LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
15	1381095	Rod Seal	1
16	1362875	Piston Ring	1
	186061	Lubricant	1
	1360139	Kit-Seal	1

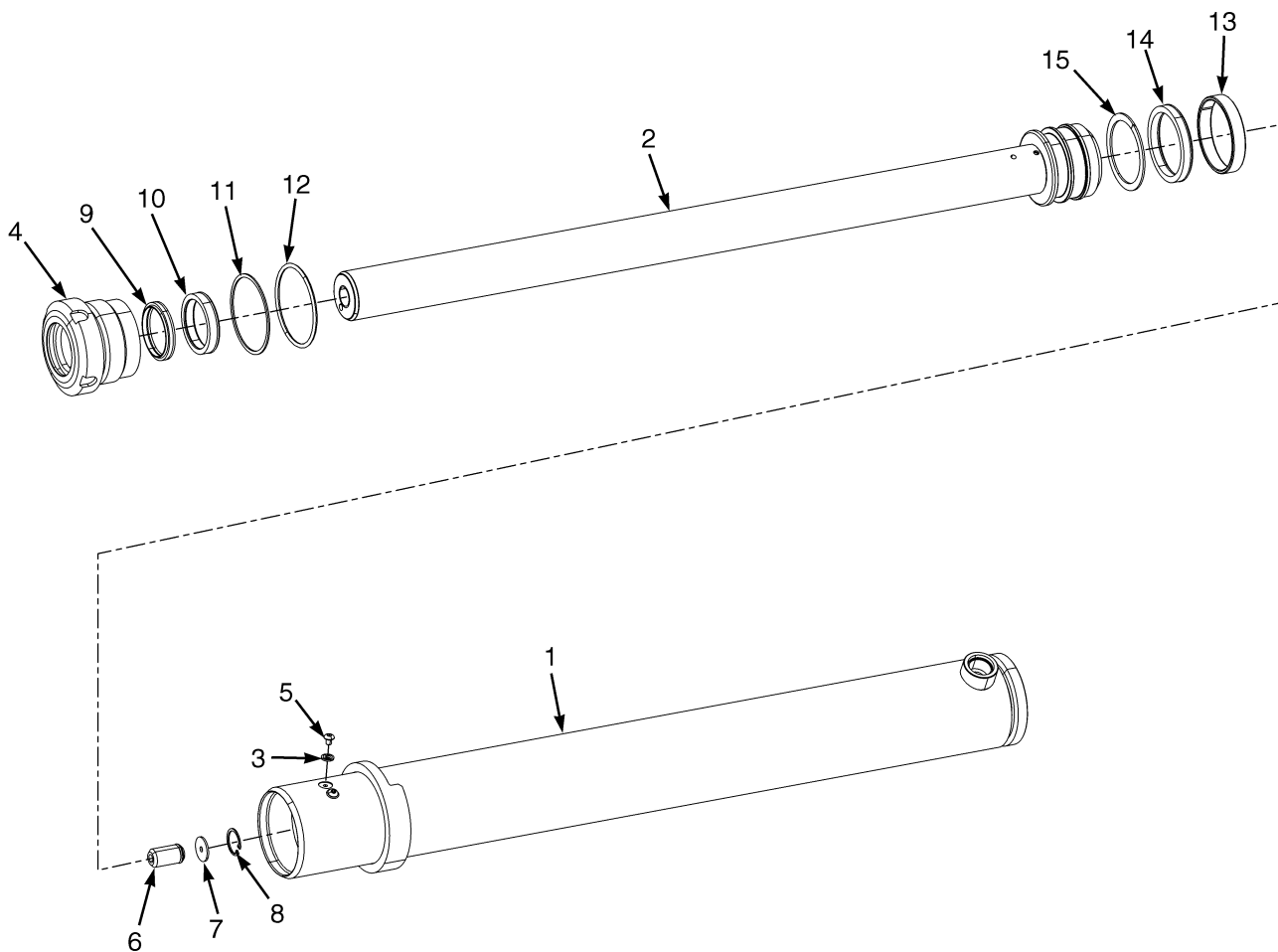
FOOTNOTES:

- a** Refer to Table

NOTES

[illegible]

FREE LIFT CYLINDER ASSEMBLY (FIGURE 11-5) THREE STAGE FULL FREE LIFT



BP170170

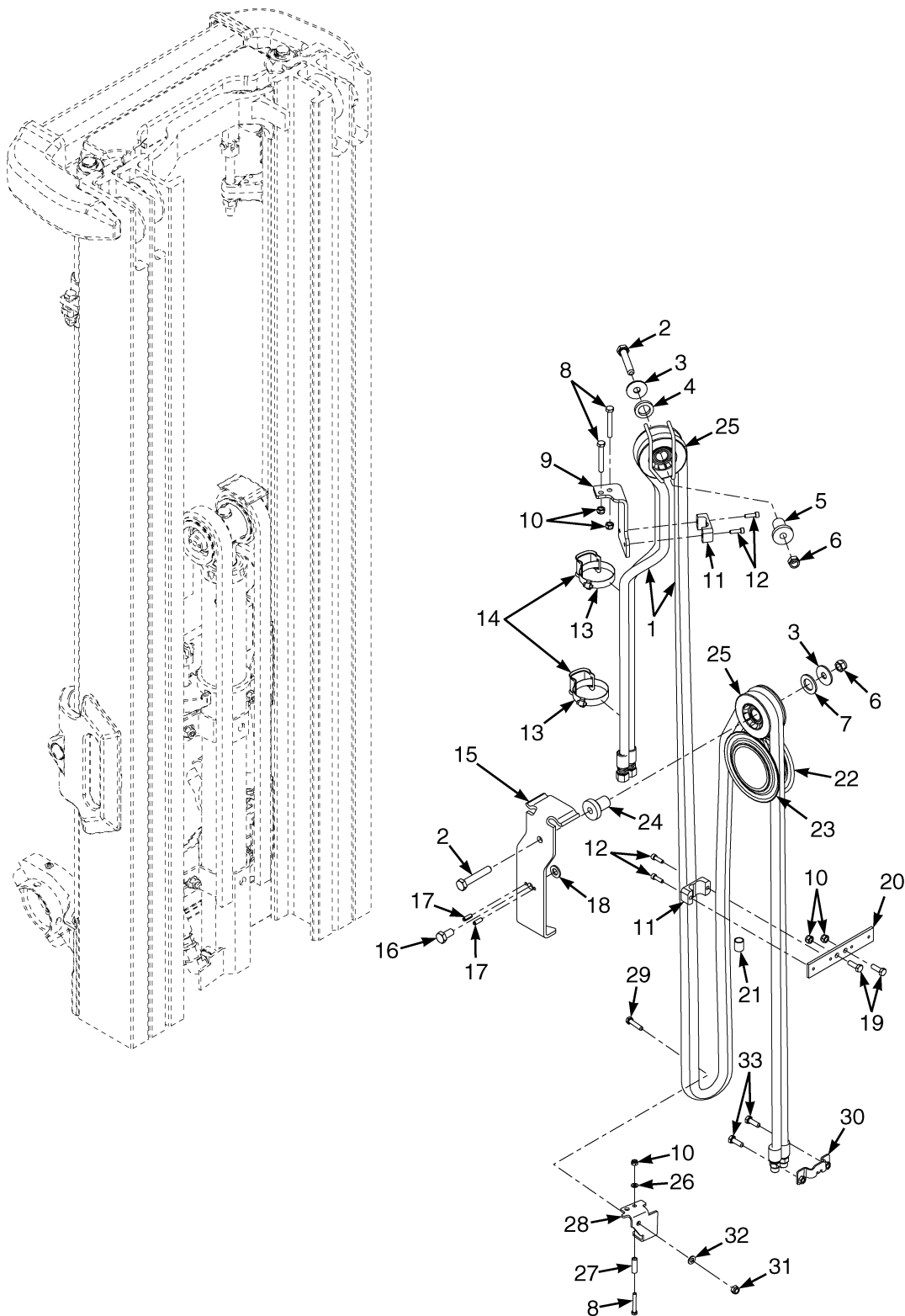
**FREE LIFT CYLINDER ASSEMBLY
THREE STAGE FULL FREE LIFT****A698**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
	Cylinder Group Number	8601941	8601942	8601943
	Cylinder Assy	4606840	4606841	4606842
1	Tube Wldmt- Cylinder	4606843	4606844	4606845
2	Rod Assy	4606932	4606933	4606934

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	a	Tube Wldmt-Cylinder	1
2	a	Rod Assy	1
3	190887	Sealing Ring	1
4	1362880	Gland	1
5	1361302	Screw	1
6	297538	Check Valve	1
7	297531	Washer	1
8	187388	Snap Ring	1
9	1463105	Rod Wiper	1
10	1622946	Rod Seal	1
11	147973	Back-Up Ring	1
12	55146	O-Ring	1
13	1362881	Wear Ring	1
14	201829	Rod Seal	1
15	638250	Back-Up Ring	1
	186061	Lubricant	1
	1360141	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

HEADER HOSE AND ATTACHING PARTS (FIGURE 11-6) 3 FUNCTION



BP170521

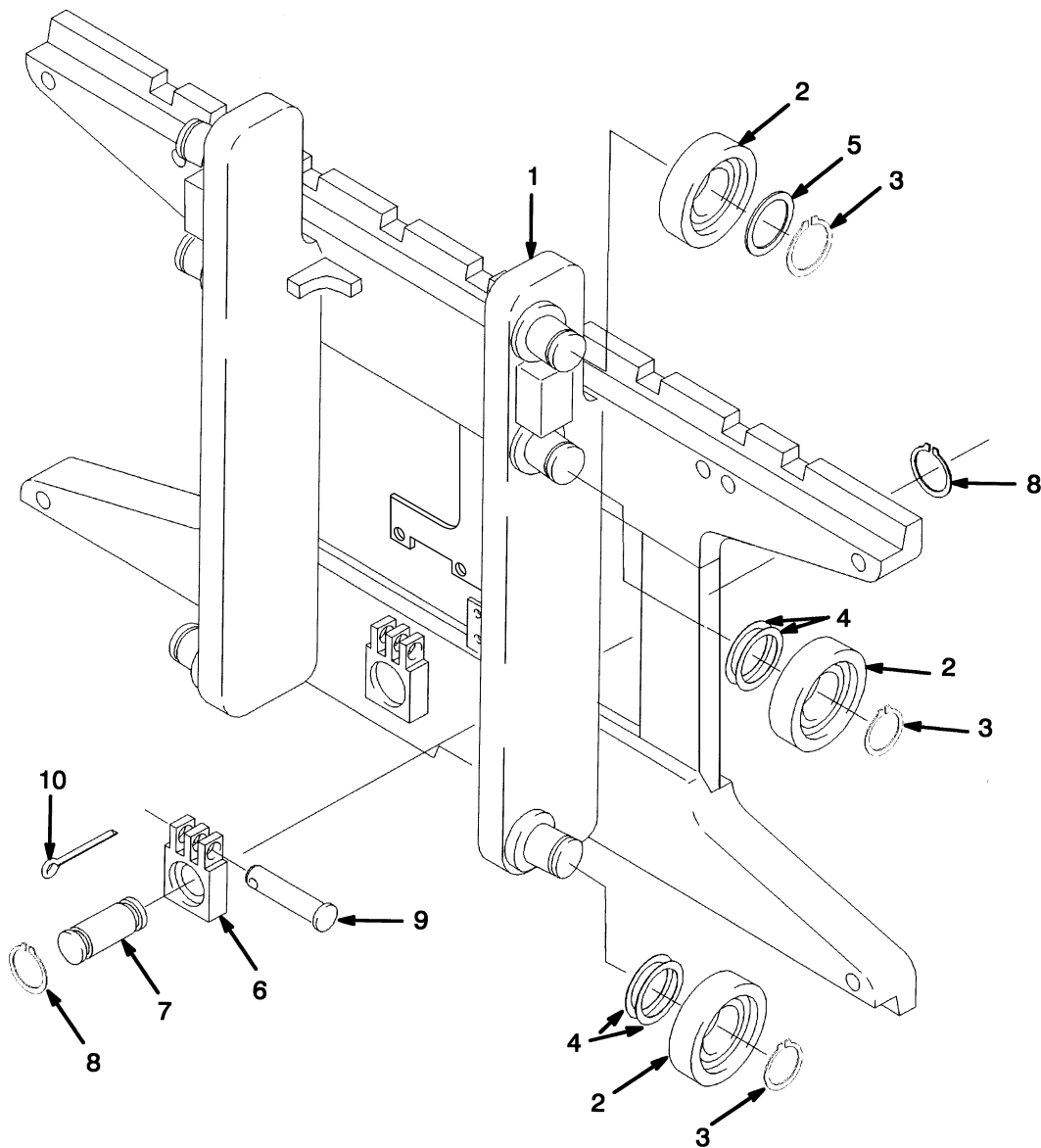
HEADER HOSE AND ATTACHING PARTS
3 FUNCTION**A698**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		4285 mm (168.7 in.)	4735 mm (186.4 in.)	5035 mm (198.2 in.)
	Mast Group Number	A698 4285	A698 4735	A698 5035
1	Hose	4601816	4601817	4601818

ITEM	PART NO.	DESCRIPTION	QTY
1	a	Hose	1
2	1581830	Capscrew	2
3	1345190	Washer	2
4	1360549	Spacer	1
5	1381642	Stubshaft	1
6	1581849	Nut	2
7	1581560	Washer	1
8	1581836	Capscrew	3
9	1381598	Bracket	1
10	1581566	Nut	7
11	1360386	Clamp	2
12	1581842	Capscrew	4
13	1481229	Clamp	2
14	1477996	Hose Clamp	2
15	1395291	Bracket	1
16	1581590	Capscrew	1
17	302461	Roll Pin	2
18	1581852	Washer	1
19	1581581	Capscrew	4
20	1353464	Plate	1
21	1566564	Cap	1
22	1345199	Hose Guide	2
23	1345204	Snap Ring (Spiral Retaining Ring)	2
24	1396406	Stubshaft	1
25	1494017	Hose Sheave	2
26	1581556	Washer	1
27	4606652	Hose Guide	1
28	4016235	Bracket	1
29	1598660	Capscrew	1
30	4008020	Clamp	1
31	1581567	Nut	1
32	1581557	Washer	2

FOOTNOTES:**a** Refer to Table

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



HP170506

CARRIAGE
THREE STAGE FULL FREE-LIFT

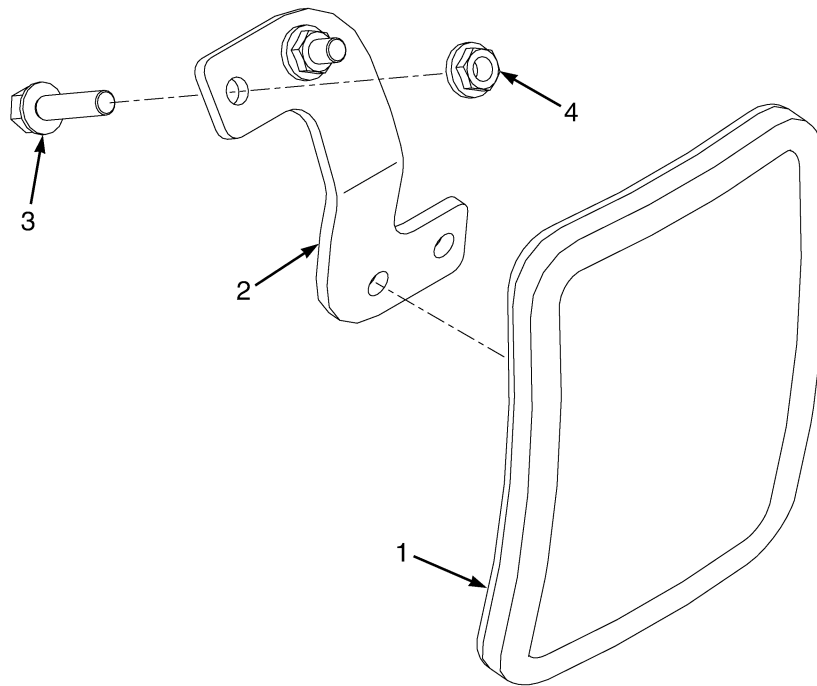
ITEM	PART NO.	DESCRIPTION	QTY
	4602114	Carriage	1
1	.....	Carriage Wldmt	1
1	1345216	Stubshaft	6
2	1363272	Load Roller (3.24 in.)	6
2	1395174	Load Roller ("A") (3.22 in.)	6
3	58901	Snap Ring	6
4	129387	Shim (0.020 in.)	AR
5	366115	Spacer	2
6	1369345	Chain Anchor (Dual Hole)	1
6	1504010	Chain Anchor (Single Hole) (Optional)	1
7	317735	Pin	2
8	131358	Snap Ring	4
9	1514866	Pin (Chain Anchor)	2
10	15211	Cotter Pin	2

[illegible]

SECTION 12
OPTIONS

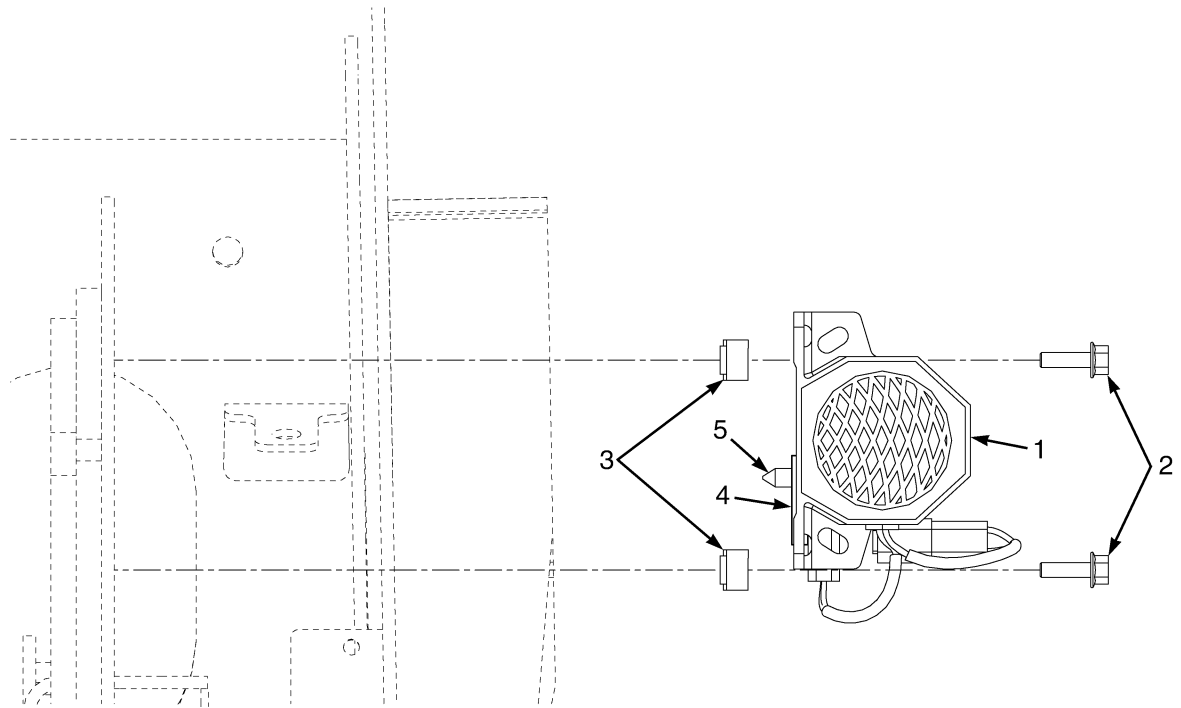
DESCRIPTION	PAGE
AUDIBLE BACKUP ALARM	12-3
FIRE EXTINGUISHER	12-4
INTEGRAL SIDE-SHIFT CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-6
INTEGRAL SIDE-SHIFT CYLINDER	12-10
INTEGRAL SIDE-SHIFT HYDRAULIC HOSES	
THREE STAGE FULL FREE-LIFT	12-8
MIRRORS	12-2

MIRRORS (FIGURE 12-1)



BP000540

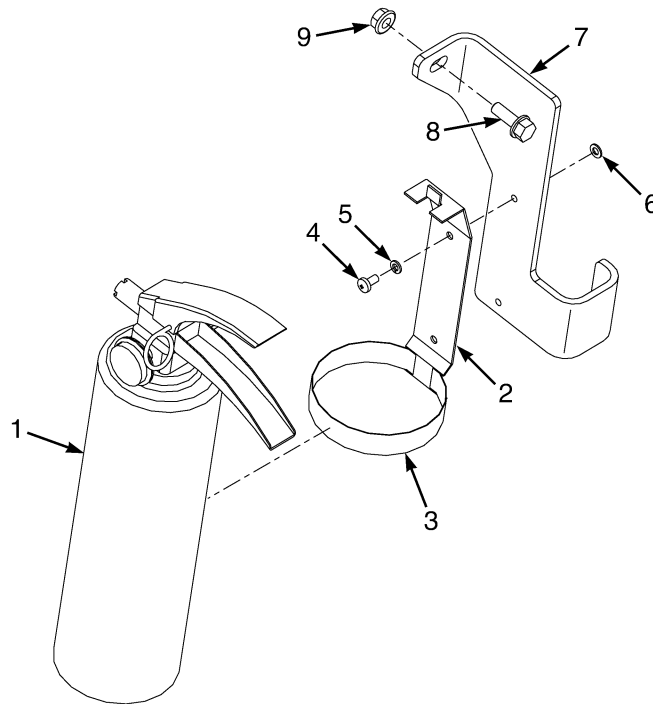
ITEM	PART NO.	DESCRIPTION	QTY
1	4009488	Mirror	2
2	1656216	Bracket (LH)	1
2	1656215	Bracket (RH)	1
3	1586627	Capscrew	4
4	1586430	Nut	4

AUDIBLE BACKUP ALARM (FIGURE 12-2)

BP000541

ITEM	PART NO.	DESCRIPTION	QTY
1	2064929	Back-Up Alarm (82-102 dbA)	1
2	1527877	Capscrew	2
3	1350215	Nut	2
4	1500912	Clip	1
5	1582464	Fastener	1

FIRE EXTINGUISHER (FIGURE 12-3)



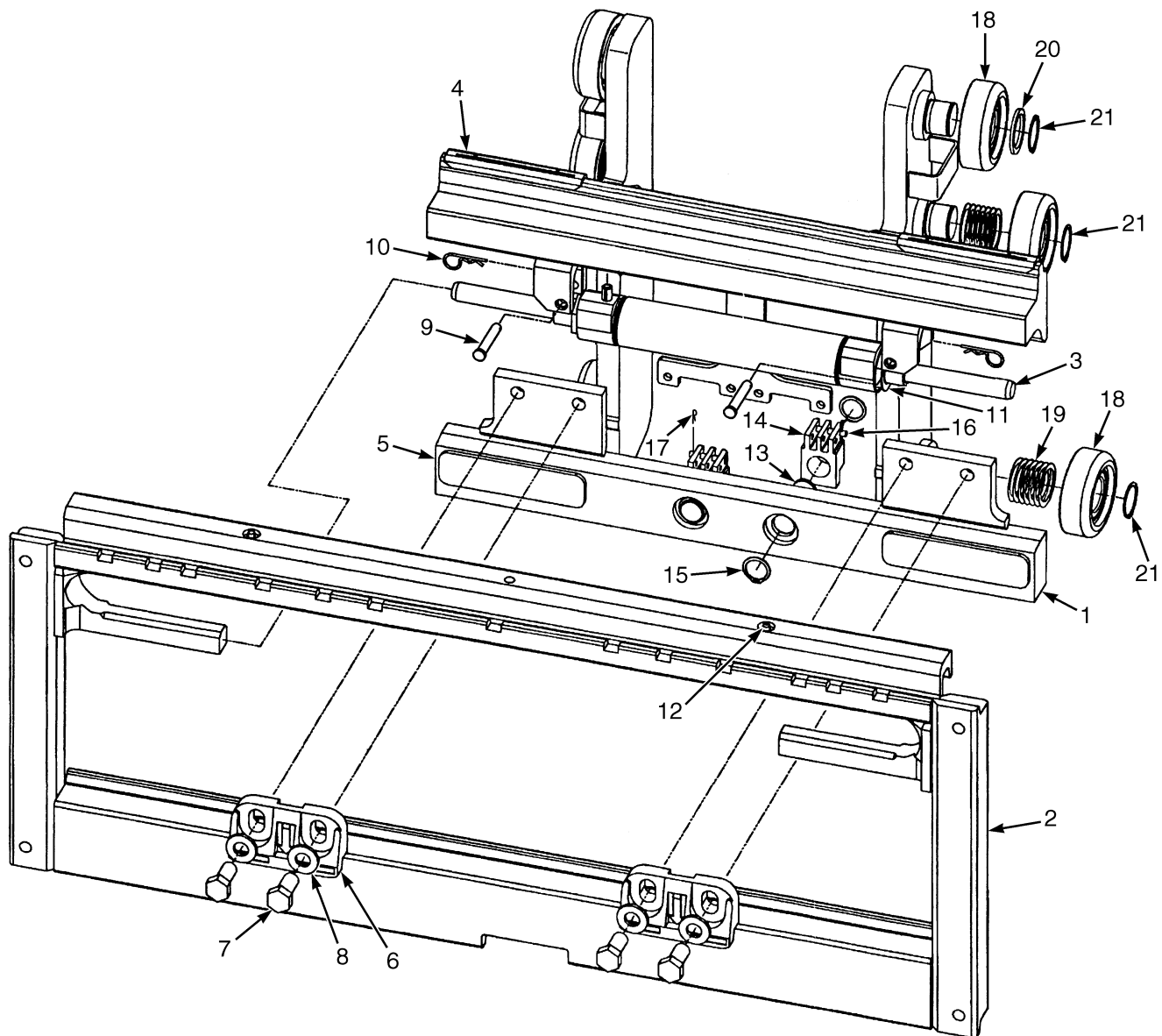
BP000543

ITEM	PART NO.	DESCRIPTION	QTY
1	146540	Fire Extinguisher	1
2	1561749	Bracket	1
3	.....	Clamp	1
4	296507	Screw	2
5	320155	Washer	2
6	292679	Washer	2
7	1582141	Bracket	1
8	1583611	Capscrew	1
9	4382472	Nut (Flange)	1
	1502543		

NOTES

[illegible]

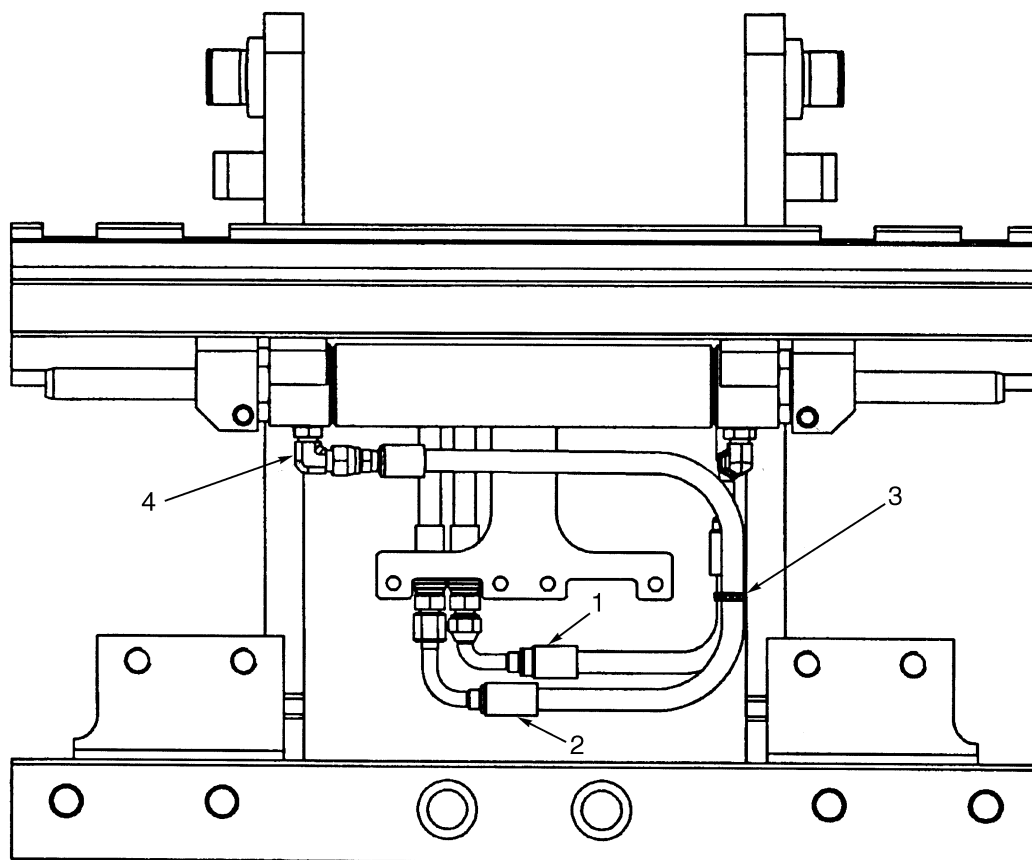
INTEGRAL SIDE-SHIFT CARRIAGE (FIGURE 12-4) THREE STAGE FULL FREE-LIFT



BP000250

**INTEGRAL SIDE-SHIFT CARRIAGE
THREE STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	4602116	Side-Shift Carriage	1
1	4003823	Carriage Wldmt (Inner)	1
2	1489044		
	4033955	Frame (Outer)	1
3	2043528	Sideshift Cylinder Assembly (☞Figure 12-6).....	1
4	2043531	Bearing (Upper)	2
5	2043533	Bearing (Lower)	2
6	4611363	Hook	2
7	1581833	Capscrew	4
8	1581854	Washer	4
9	1401746	Pin	2
10	18832	Cotter Pin	2
11	1498326	Shim	AR
12	16041	Grease Fitting	2
13	317735	Pin	2
14	1369345	Chain Anchor (Dual Hole)	2
14	1504010	Chain Anchor (Single Hole)	2
15	131358	Snap Ring	4
16	1514866	Pin	2
17	15211	Cotter Pin	2
18	1363272	Load Roller (3.24 in.)	6
18	1395174	Load Roller ("A") (3.22 in.) (Optional)	6
19	129387	Shim (0.020 in.)	28
20	366115	Spacer	6
21	58901	Snap Ring	6

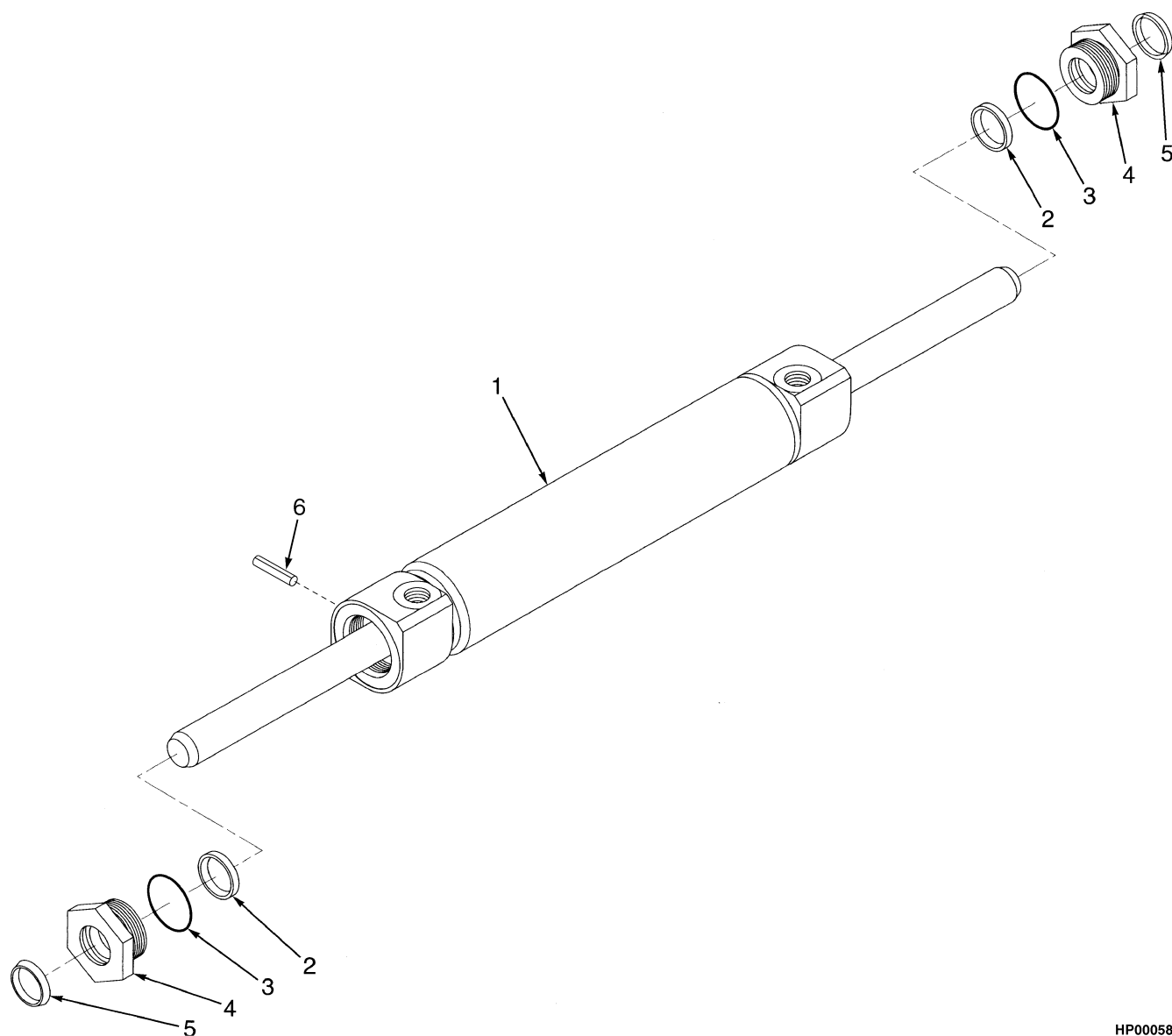
INTEGRAL SIDE-SHIFT HYDRAULIC HOSES (FIGURE 12-5)
THREE STAGE FULL FREE-LIFT

BP000003

ITEM	PART NO.	DESCRIPTION	QTY
1	4612128	Hose Assy	1
2	4612130	Hose Assy	1
3	114312	Strap Clamp	1
4	1487059	Fitting	2

NOTES

[illegible]

INTEGRAL SIDE-SHIFT CYLINDER (FIGURE 12-6)

HP000581

INTEGRAL SIDE-SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2043528	Sideshift Cylinder Assembly	1
1	.....	Cylinder	1
2	1489037	Rod Seal	2
3	1489035	O-Ring	2
4	1498325	Retainer	2
5	1489039	Rod Wiper	2
6	302487	Roll Pin	1
	1503096	Kit-Seal	1

[illegible]

**SECTION 13
NUMERICAL INDEX**

PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM	PART NO.	PAGE	ITEM
126	4-29	12	16706	10-19	6	86229	6-13	22	148609	5-33	13
13957	8-9	12		10-21	2		6-17	22	148789	5-5	30
14191	8-12	4	16984	10-3	12	86543	7-3	33		5-13	2
14303	4-23	5	17051	11-6	31	87446	4-23	11	148792	5-5	29
14358	4-9	8	17173	7-3	30	88431	11-9	2		5-13	18
14372	4-9	21	17650	4-23	10	88585	10-3	15	154375	10-13	9
14385	2-7	10	17652	4-5	15	97999	4-9	6	161003	11-5	17
	3-3	15	17664	4-9	10	98525	8-9	24		11-9	24
14603	7-3	32	18462	1-25	27	101809	4-9	11	163307	8-12	2
15055	10-22	2	18471	1-25	21	104506	11-3	7	164488	7-3	28
15127	1-23	21	18735	1-25	9		11-5	7	165991	4-3	14
15211	11-5	21	18748	10-17	8	104681	6-15	29		4-5	17
	11-9	21	18832	12-7	10	112989	4-3	5	168718	4-23	16
	11-21	10	19901	1-23	24		4-5	5	169874	1-25	19
	12-7	17		1-25	15	114312	1-25		170658	1-19	5
15223	11-9	25	37752	11-9	4		4-9	19		1-19	16
15245	8-9	18	39352	8-9	6		12-8	3	173056	6-13	4
15871	4-5	6	39375	6-15	20	118361	6-17	10		6-15	34
16002	11-3	8	43207	6-11	15	120938	11-6	34	178119	6-5	12
16040	10-11	12		6-15	14	124603	6-23	17	186061	10-13	
16041	10-11	3		6-23	21		6-25	17		11-14	
	12-7	12		6-25	21	127045	10-3	25		11-17	
16078	5-13	1	43208	6-11	30	127918	10-3	7	187388	11-13	9
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	5-5	30	44306	6-13	11	128408	5-5	30	188515	10-19	7
	5-13	13		6-17	11		5-13	3		10-21	14
16121	4-23	2	44307	6-11	17		6-5	11	189595	11-6	33
	4-23	4		6-15	19	129387	11-3	4	190382	5-33	9
16134	4-9	15	44308	6-11	33		11-5	4		5-33	13
16150	4-5	16		6-15	23		11-9	15	190763	6-13	29
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16151	4-9	17	55146	11-17	12		12-7	19	190887	11-17	3
	4-23	9	55407	11-13	13	129888	5-20	34	197345	11-9	2
16481	6-13	27	58901	11-3	2	130845	6-3	2	201829	11-17	14
16483	6-13	26		11-5	2		6-5	3	204223	5-13	14
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16485	6-3	8	58903	8-9	2		12-7	15	221353	1-23	15
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	6-13	12	63081	6-21	6	135619	11-9	2	221536	1-23	13
	6-21	1	63117	2-3	11	136687	5-5	28		1-25	13
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16543	11-6	40	77443	10-19	5	146540	12-4	1	222443	6-13	26
16560	11-6	30		10-21	11	147973	11-17	11		6-17	26

NUMERICAL INDEX (continued)

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222444	6-13	15	281647	8-11	1	293697	6-7	5	302461	11-9	7
	6-17	15	287844	10-7	8	293698	2-11	2		11-19	17
222493	6-5	1	287851	3-9	4		3-10	2	302487	12-11	6
222504	6-3	9		6-11	13		7-3	34	303119	8-11	8
222510	10-3	5	287860	6-11	24	293741	6-13		303150	2-9	7
222512	6-3	8		6-15	27		6-15	37		3-9	8
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223389	11-5	16		8-11		293762	7-7	4		6-17	13
226986	8-9	11	292500	1-23	20	293796	10-9	10	304526	11-6	43
227155	5-3	9		6-11	10	296009	6-5	14		11-9	8
233693	6-11	5		6-15	8	296030	1-17	21	309109	10-15	10
	6-13	12		6-17	31	296357	1-23	18	309651	4-23	12
	6-15	6	292513	10-3	17		1-25	23	313805	10-7	10
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235691	6-11	4	292531	6-7	7	296379	1-25	20	316826	8-9	35
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	10-15	12	292610	1-7	6	296380	5-5	31		12-7	13
239503	9-5	22	292658	7-3	36		5-13	10	320152	5-5	14
246108	2-7	10	292668	9-5	26	296418	2-7	20	320154	3-3	11
	3-3	15	292672	4-15	10		3-4	4		5-5	25
249289	8-9	16	292676	5-5	15	296420	3-9	13	320155	4-9	22
251979	6-8		292679	6-15	36		3-10	8		12-4	5
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257913	11-13	5	292680	6-11	9		10-3	16	320157	1-13	4
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1523733	1-2	5	1528888	1-9	3	1532528	4-23	7	1538782	4-29	3
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1524923	8-9	23		5-27	9		5-27	16	1540388	5-34	26
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1543698	9-5	8	1553708	2-17	15		10-21	10	1566462	7-3	40
1543842	9-5	9		5-9	1	1561015	1-17	23	1566564	11-19	21
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1544217	6-11	32	1553762	2-33	24	1562492	8-5	4	1568075	9-5	31
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1578940	10-19	2		11-3	12		2-5	4		3-31	12
1578943	10-19	4		11-5	12	1586013	10-11	10	1599446	3-17	6
1578978	7-7	9		11-9	6	1586109	8-3	2	1599448	3-17	9
1578981	7-7	19		11-19	18	1586428	5-15	16		3-23	4
1579908	10-25		1581854	12-7	8	1586430	12-2	4		3-28	4
1580097	10-19	24	1581858	10-25	37	1586440	1-21	5		3-31	11
1580131	10-22	10	1581859	10-19	17	1586447	1-21	4	1599449	3-17	7
1580147	10-21	4		10-21	7	1586495	1-9	11	1599451	3-17	4
1580155	10-22	2	1581860	10-19	11		1-13	7	1599454	3-17	13
1580682	10-3	4		10-21	9		5-15	18	1599455	3-17	14
1581098	6-23	8	1581861	10-19	12	1586627	10-15	13	1599458	3-17	15
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1581099	6-23	9	1582141	12-4	7	1586759	5-15	15		3-23	7
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1581590	11-19	16		4-5	9	1598220	1-9	13	1599480	3-23	2
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1581830	11-19	2		12-4	8		1-25	16	1599483	3-23	5
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1581836	11-19	8	1584060	1-23	8	1598660	11-19	29	1599486	3-13	45
1581842	11-19	12	1584621	7-7		1599203	1-9	1	1599487	3-13	44
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1650520	5-19	7	1652471	5-9	3		6-23		1692643	7-3	31
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1650789	4-13	14	1662420	10-15	8		6-15	24		6-17	16
1650791	4-13	6	1663441	1-5	1	1686782	6-11	22	1702420	10-17	5
1650819	6-13	24	1663443	1-5	1	1687035	2-23	4		10-19	
1650870	4-17	15	1663877	2-7	15		2-28	4	1702520	6-11	19
1652290	5-15	9		3-3	20	1687603	2-3	3		6-15	10
1652301	2-13	1	1666732	1-17	2		2-5	3	1702933	9-7	1
	2-15		1666733	1-17	24	1687847	6-11	8	1703644	6-11	7
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	2-19		1670413	10-17	7	1688253	3-13		1703890	1-26	
	2-21		1670434	10-21			3-17			1-29	8
	2-27		1670445	10-19	8		3-19		1703891	1-26	
	2-31		1670463	10-17	3		3-21			1-29	1
	2-33			10-21	1		3-23		1703892	1-25	4
1652303	2-33		1672560	1-17	20		3-25		1703893	1-25	5
1652333	2-28	4	1672800	4-17	8		3-27		1703895	1-26	
1652334	2-23	9	1673198	6-5	1		3-28		1703901	1-25	2
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1703904	1-25	6	2026780	9-3	8	2046866	4-9	23	2069008	1-13	30
1704902	9-5	25	2026781	9-3	9	2047132	4-9	13	2069225	5-13	1
1705980	6-17	17	2026782	9-3	10	2051128	2-19	20	2069226	5-5	30
1705981	6-17	17	2026783	9-3	20	2054381	7-7	32	2069381	5-30	1
	6-18	2	2026784	9-3		2054792	7-7	38	2069431	5-16	3
1705984	6-17	17	2026785	9-3		2055917	8-9	26	2069454	1-9	17
1707007	9-5	29	2026786	9-3			8-12		2069951	2-11	5
1707283	10-7	9	2026787	9-3		2056824	5-15	1		3-10	5
1707341	3-9	11	2026861	7-7	13	2056826	5-15	2	2070147	6-7	2
	3-27	17	2027618	7-9	6	2056868	10-17	1	2070223	1-9	17
1707826	3-23	6	2027655	1-13	14		10-25		2070263	6-13	25
1708371	2-3	8	2027949	4-29	4	2057948	5-16	10		6-17	25
	2-5	8	2028645	2-27	24	2058000	4-23		2070296	1-19	13
	3-7	5	2028853	2-19	21	2059211	2-7	8	2070297	1-19	14
1709876	1-23	4	2028862	7-7	19	2059937	9-5	10	2070306	1-19	15
1709980	1-13	2	2028927	2-17	13	2060012	2-7	3	2070655	1-19	15
1709996	2-3	5	2029081	2-17	14	2060032	5-16	9	2070975	1-13	20
	2-5	5	2029086	2-19	22	2060555	5-20	29	2071181	4-21	7
	3-7	6	2029095	2-33	3		5-30	1	2071483	1-13	24
1710006	1-13	1	2029097	2-33	28	2060696	8-9	32	2071508	1-14	45
1710007	1-13	16	2029098	2-33	25	2060751	10-3	4	2071517	4-9	7
2021286	7-3	15	2029100	2-31	9	2060843	4-3	7	2071593	1-13	18
	7-7	31	2029101	2-31	11	2061646	10-9	18	2072213	1-13	36
2021288	7-7	2	2029102	2-31	12	2062589	4-23	20	2072802	1-14	44
2021341	9-5	1	2029103	2-31	16	2063842	4-21	11	2072918	2-9	3
2021343	9-5	1	2029105	2-27	27	2063991	10-15	15	2073197	1-21	8
2021353	9-5	5	2029106	2-27	28	2064554	9-5		2073495	10-9	14
2021395	1-13	5	2029107	2-27	26	2064929	12-3	1	2074209	1-19	11
2021554	7-3	11	2029108	2-27	11	2065051	10-9	15	2074256	1-19	17
2021555	7-3	10	2029112	2-27	17	2065098	5-5	24	2075120	7-3	28
2021557	7-3	9	2029116	2-27	20		5-36		2075418	1-21	10
2021575	8-11	6	2029120	2-27	16	2065666	1-13	12	2075554	3-7	3
2021588	7-3	4	2034347	1-5	2	2065667	1-13	15	2075656	1-21	2
2021592	7-3	5	2034459	1-19	18		1-13	19	2077604	9-5	1
2021683	4-23	24	2035276	5-20	27	2065745	5-13	24	2077983	3-31	6
2021800	8-9	17	2040957	9-3		2066044	10-9	6	2078488	2-27	25
2021802	8-9	14	2043528	12-7	3	2066045	10-9	1	2078941	2-15	10
2021803	8-9	13		12-11		2066485	5-16	2	2081840	4-23	23
2021898	8-9	21	2043531	12-7	4		5-16	8	2081870	4-23	17
2021918	7-3	3	2043533	12-7	5	2066629	5-9	14	2082929	2-27	4
2022309	2-27	13	2044370	8-12	7	2066783	10-9	6	2084312	3-21	18
2022352	7-7	14		10-13	4	2067040	7-9	2	2085129	6-23	6
2022655	2-15	3	2045025	2-27	21	2067053	8-11	2		6-25	6
2026224	8-11	3	2045026	2-27	19	2067396	4-29	7	2085259	4-3	6
2026225	8-11	4	2045030	2-21	10	2067455	1-13	8	2085421	4-3	12
2026608	5-9		2045033	2-21	9	2067476	4-3	1	2085570	3-4	1
2026773	9-3	1	2045034	2-21	8		4-5	18	2087753	2-31	
2026774	9-3	1	2045036	2-19		2068098	3-3	14	2087756	2-27	23
2026775	9-3	21	2045134	5-33	17	2068099	3-3	8	2087757	2-27	32
2026776	9-3	3	2045319	2-27	31	2068378	3-19	9	2089366	6-17	7
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	2-5	12	2111171	9-5		4007318	1-25	18	4016149	6-17	1
2090661	5-13	28		9-7		4007765	10-10		4016150	6-15	1
2091232	4-3	2	2111325	10-3	2	4007888	6-23	3	4016151	6-15	31
2092534	8-11	5	2302899	10-13	2		6-25	3	4016152	6-15	15
2092536	7-9	5	2306118	10-3	26	4007889	6-23	19	4016235	11-19	28
2092548	3-17	10	2307400	1-19	5		6-25	20	4016652	4-10	5
2092549	3-17	10	2308541	4-29	6	4007891	1-23	17		5-10	4
2092550	3-27	7	2308673	1-19	16	4007897	1-10	2	4016653	2-5	7
2092551	3-27	7	2310682	11-13	3	4007984	5-19	7	4016654	2-5	19
2092552	3-17	11		11-13	3	4008020	11-19	30	4016655	2-5	19
2092553	3-17	11		11-13	3	4008684	5-15	22	4016905	1-21	6
2092848	4-5	6		11-13	3	4008685	5-19	1	4017172	7-3	13
2098082	5-15	5		11-13	3		5-33	1	4017174	7-3	
2098083	5-15	4		11-13	3	4008686	5-25	12	4017567	11-3	10
2098084	5-15	4	2314223	9-5	1		5-29	12	4017624	11-3	16
2098085	5-15	4	2314973	2-15	25	4008687	5-19	2	4017719	6-17	17
2098280	5-34	18	2787350	5-30	1		5-33	2	4018639	11-5	1
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	10-5		4000257	10-10	1	4009385	9-5	11	4020311	6-15	35
2099393	10-15	1	4000258	10-10	6	4009450	5-3	10	4020466	6-15	17
2099394	10-15	2	4000453	3-17	14	4009488	12-2	1	4020467	6-15	16
2099395	10-15	3	4000454	3-17	14	4009618	2-7	9	4020588	6-13	7
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2099951	1-25	17	4001095	4-9	9	4009901	6-7	8	4021292	3-25	10
2100927	3-21	2	4001097	4-9	12		6-11		4022958	10-7	11
2101546	5-23	14	4001804	4-10	7		6-13		4023295	5-34	28
	5-27	14		5-10	3	4010318	6-15	18	4023450	8-3	5
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2101978	2-7	21	4002527	7-7	3	4011397	1-17	28	4023451	8-3	5
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2102507	1-13	38		7-7		4011940	9-7	6	4025106	6-13	
2102508	1-13	28	4002682	1-23	5	4013095	1-23	6		6-17	33
2105803	4-9	16	4002683	7-3	2		1-25	7	4025208	6-13	1
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	5-13	12	4004475	7-7	17	4014269	3-7	10	4025684	5-34	28
2107957	1-13	6	4004500	8-9	33	4014351	10-10	6	4025685	5-34	28
2107958	1-13	10	4004549	10-11	5	4014493	3-3	1	4027341	1-25	
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	1-25	24	4004895	1-7	2	4015019	6-11	2	4027456	1-13	43
2109692	6-3	7	4005681	2-3	18	4015021	4-13	8	4027457	1-13	43
2109723	6-3	3		2-5	18	4015022	4-13	15	4028349	8-9	23
2109869	6-3	3	4005800	10-11	4	4015023	4-13	4	4028642	8-5	1
2109875	6-3	1	4006033	6-11	26	4015724	11-3	13	4029512	4-9	24
	6-5	2	4006034	6-11	16	4015807	2-9	15	4030497	4-6	6
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4034386	4-5	10		5-30		4606841	11-9	11		11-13	
4034685	5-34	29	4603285	5-3	2		11-17		4606970	11-5	25
4035130	1-9	2		5-23		4606842	11-9	11		11-13	
4035412	1-13	42		5-24			11-17		4607118	11-6	36
4035580	3-3	9	4603286	5-15	19	4606843	11-17	1	4609180	1-13	29
4036586	1-26		4603289	6-13	29	4606844	11-17	1	4609285	11-3	
4038672	8-7	1		6-17	29	4606845	11-17	1		11-5	
4038673	8-7	8	4603376	1-23		4606846	6-13	17		11-9	
4038674	8-7	11	4603382	1-25			6-17	17	4611249	4-3	7
4038675	8-7	13	4603646	5-13	19		6-18			4-6	
4038676	8-7	16	4603865	5-16	6	4606922	11-13	1	4611363	12-7	6
4038677	8-7	21	4603866	5-16	7	4606923	11-13	1	4611791	8-3	5
4038678	8-7	25	4603879	5-16	1	4606924	11-13	1		8-7	
4039366	9-7	2	4604594	5-16	13	4606925	11-13	1	4612084	10-3	23
4039373	9-7	1	4604909	10-3	14	4606926	11-13	1	4612114	10-7	4
4040480	4-17	4	4605113	10-9	7	4606927	11-13	1	4612115	10-7	3
4043883	4-17	1	4605114	10-9	9	4606932	11-17	2	4612128	12-8	1
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4601648	7-3	25	4605116	10-9	20	4606934	11-17	2	4612911	1-25	8
4601649	7-3	20	4605247	2-7	6	4606962	11-13	2	4612945	4-5	8
4601682	10-13		4605946	10-3	19		11-13	2		4-6	
4601741	11-5	26	4605974	10-3	13	4606963	11-13	2	4613581	5-3	2
4601742	11-5	26	4606652	11-19	27		11-13	2		5-27	
4601743	11-5	26	4606808	11-3	1	4606964	11-13	2		5-28	
4601816	11-19	1	4606809	11-3	1		11-13	2	4613691	4-10	8
4601817	11-19	1	4606810	11-3	1	4606965	11-5	25		5-11	1
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4601850	10-13	1		11-5		4606966	11-5	25		5-33	
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4602116	12-7		4606822	11-3		4606967	11-5	15	4614155	5-3	1
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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.

