

PARTS MANUAL

**H40XT, H50XT, H60XT
(A386)**

CUSTOMER EDITION

HYSTER

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This Parts Manual is divided into 14 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.

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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	2021675	Plug	1
9	2021336	Housing	4
10	287860	Pin	22
11	292682	Bolt	39
12		Lockwasher	39
13		Hydraulic Pump	1
		⇒ Figure 5-3	
14	2021345	Gasket	1
15	214364	Bolt	8
16	296418	Washer	8
17	2021388	Temperature Switch	1
18	2021389	Breather	1
19	2021383	Dipstick	9
20	292515	Bolt	9
21	136692	Nut	2
22	292527	Bolt	3
23	292531	Capscrew	3
24	292583	Lockwasher	2
25	293637	Bolt	4
26	296420	Washer	4
	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 14-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

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

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 Part numbers that have this history will be displayed in the parts list in the order that they were superseded (from oldest to newest). The superseded part numbers will be shown with a line through them.

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

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

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

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

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

- **S/N Pending Per ECN 63243**
Indicates a pending serial number for last unit affected.
S/N Pending Per ECN 63243 →
Indicates a pending serial number for first unit affected.

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

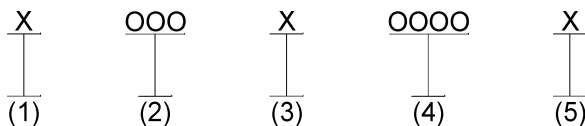
- **D/B 3/00**
Indicates that a change occurred sometime within that month for the item affected.
D/B 3/00 →
Indicates that a change occurred sometime within that month for the item affected.
D/B 3/00 ↔ D/B 4/00
Indicates a range of production dates of the item affected.

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

ORDERING PARTS:

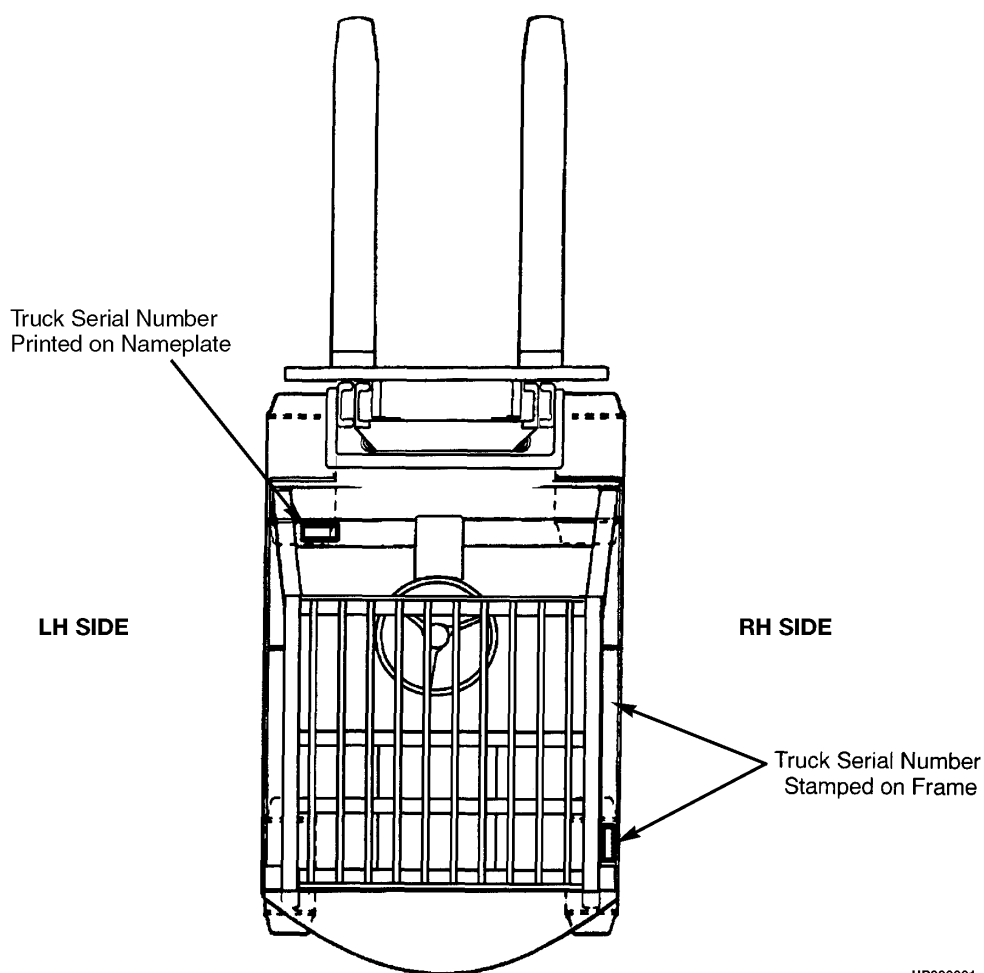
When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

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

IDENTIFICATION OF TRUCK SERIAL NUMBERS

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

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



HP990001

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

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

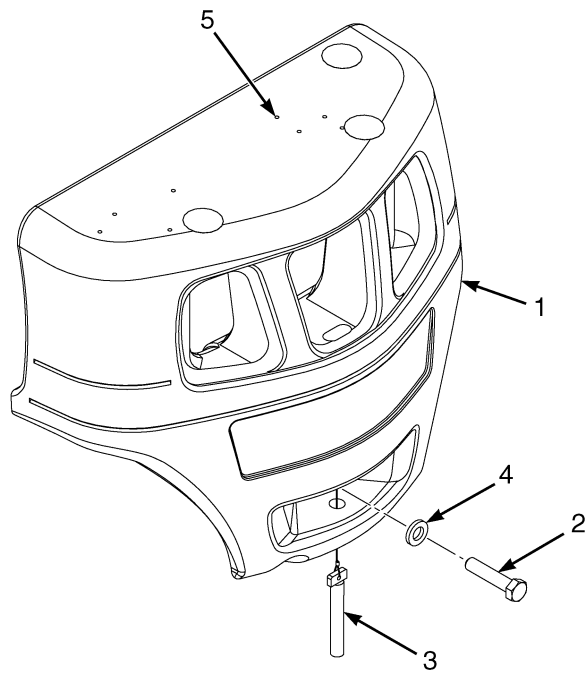
MANUALS with complete replacement part identification, are available at a nominal fee from your Hyster dealer to assist users in effectively maintaining Hyster lift trucks in a safe, useful condition. See the list below for information on ordering specific publications for this model lift truck.

PUBLICATION	HYSTER PART NUMBER
Operating Manual.....	4212669
Service Manual (Complete).....	4150970
Parts Manual.....	4212670

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SHEET 1 OF 2	1-32
SHEET 2 OF 2	1-34
NON SUSPENSION SEAT	1-10
OVERHEAD GUARD	1-4

COUNTERWEIGHT (FIGURE 1-1)

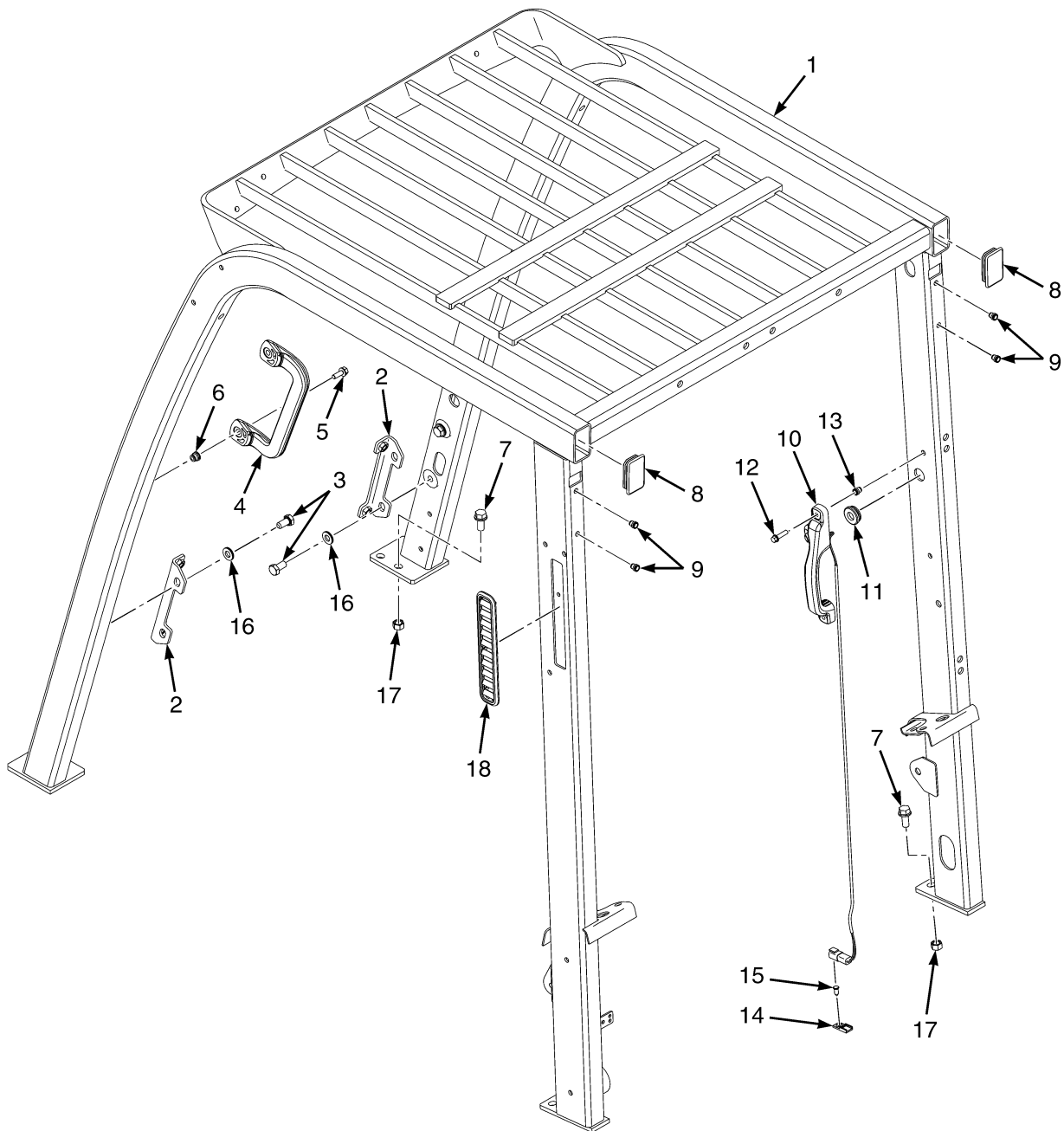
BP121478

ITEM	PART NO.	DESCRIPTION	QTY
1	4193324	Counterweight (H40XT)	1
1	4193325	Counterweight (H50XT)	1
1	4193326	Counterweight (H60XT)	1
2	292629	Capscrew	1
3	2111847	Pin	1
4	4161345	Washer	1
5	1347045	Fastener	AR
6	2021395	Cap	3
7	4156845	Seal (Counterweight)	1

NOTES

[illegible]

OVERHEAD GUARD (FIGURE 1-2)



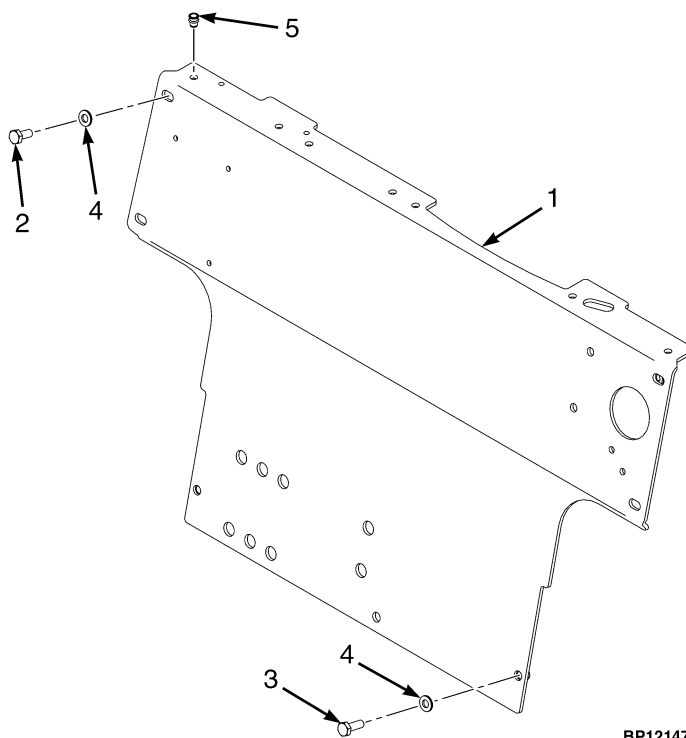
BP121514

OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	4108996	Overhead Guard (High without Cab)	1
2	4108941	Plate Wldmt	2
3	1581590	Capscrew	4
4	1536813	Handle (Grab)	1
5	1586627	Capscrew	2
6	1530243	Insert	2
7	1613433	Capscrew	6
8	4649269	Cap	2
9	1531001	Insert	4
10	2070223	Handle (Assembly)	1
10	2069454	Handle	1
10	1566726	Push Button Switch	1
10	1493465	Connector (2 Pin)	1
10	1330414	Connector (Secondary Lock)	1
10	1330437	Terminal (Pin)	2
11	2021719	Grommet	1
12	4167139	Capscrew	2
13	1531001	Insert	2
14	1500912	Clip	1
15	1582464	Fastener	1
16	4154502	Lockwasher	4
17	1318914		
	216877	Nut	6
18	4151588	Grille , Air Intake	1
	a 1363916	Plug	AR
	a 1558219	Grommet	AR
	a 1574301	Plug (Yellow)	AR
	a 1363918	Plug	AR
	a 4170282	Plug	AR

FOOTNOTES:**a** Not Illustrated

COWL MOUNT (FIGURE 1-3)

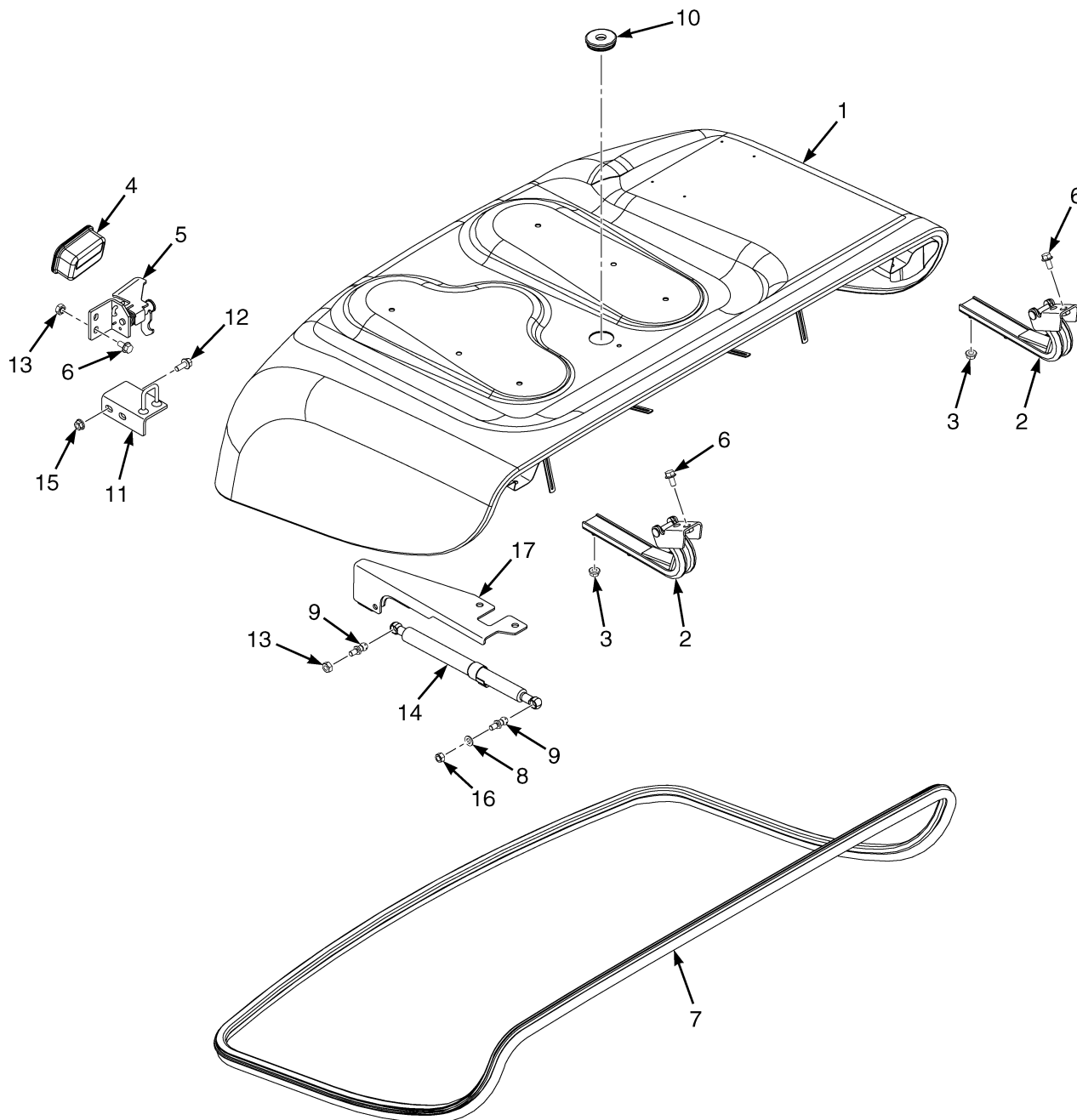


ITEM	PART NO.	DESCRIPTION	QTY
1	4147376	Cowl	1
2	1581586	Capscrew	4
3	1581587	Capscrew	2
4	4154501	Lockwasher	6
5	1531001	Insert	7

NOTES

[illegible]

HOOD ASSEMBLY (FIGURE 1-4)



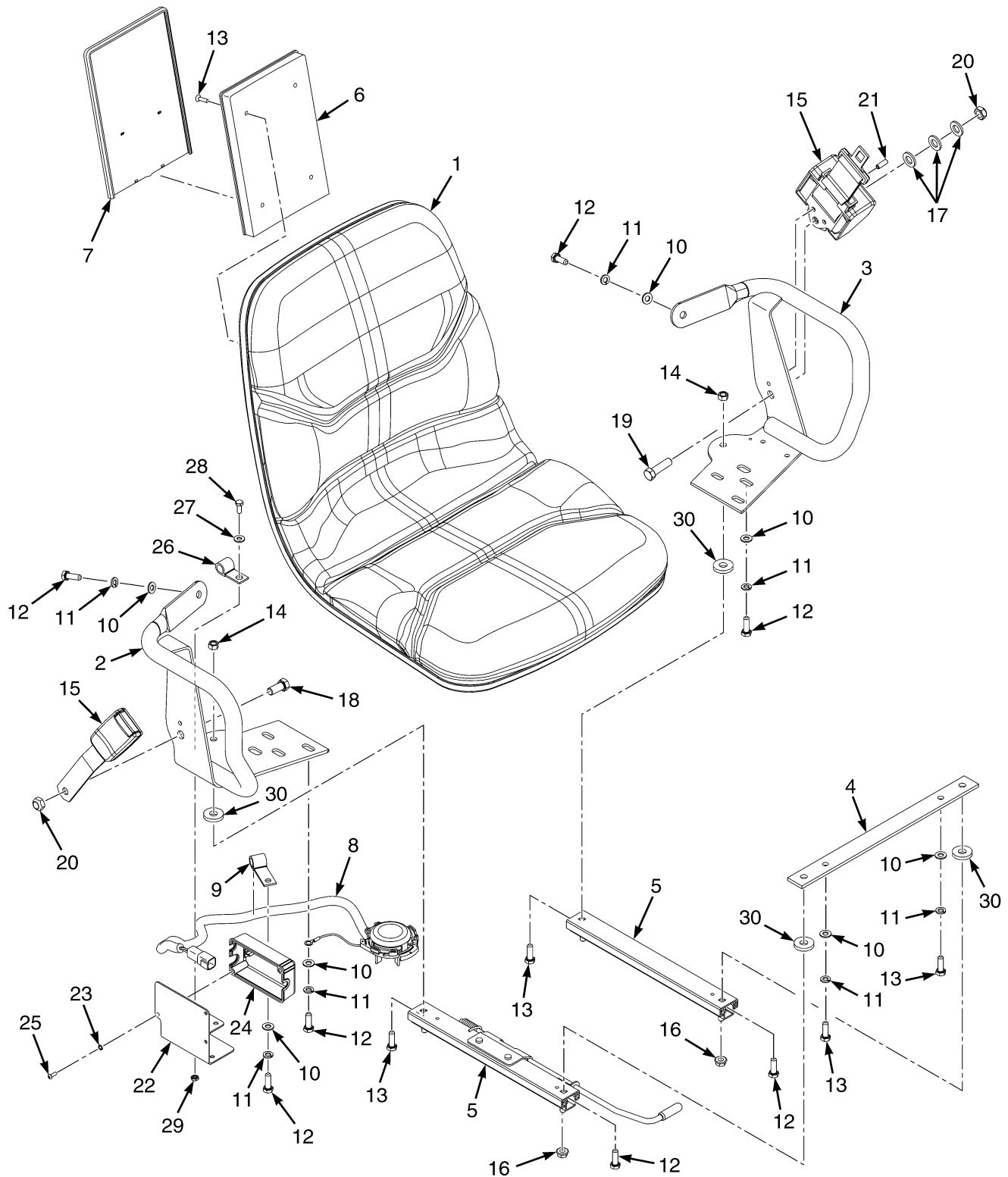
BP121580

HOOD ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	2082050	Hood	1
2	2082044	Hinge	2
3	1382472		
	1502543	Nut	4
4	2082045	Cover	1
5	2089745	Lock	1
6	4109993		
	1527879	Capscrew	6
7	2094225	Trim	1
8	296418	Washer	1
9	1563369	Ball Stud , For 750N Gas Spring	2
9	a 4011397	Ball Stud (For Lift and Latch)	1
10	2082043	Grommet	1
11	2083949	Hook	1
12	1527880	Capscrew	2
13	2066599	Nut	2
14	4134989	Gas Spring , 750N Gas Spring	1
14	a 4170275	Gas Spring (Lift and Latch)	1
15	1382472		
	1502543	Nut	2
16	313828	Nut	1
17	4170600	Bracket Wldmt (Hood Reinforcement)	1

FOOTNOTES:**a** Optional

NON SUSPENSION SEAT (FIGURE 1-5)

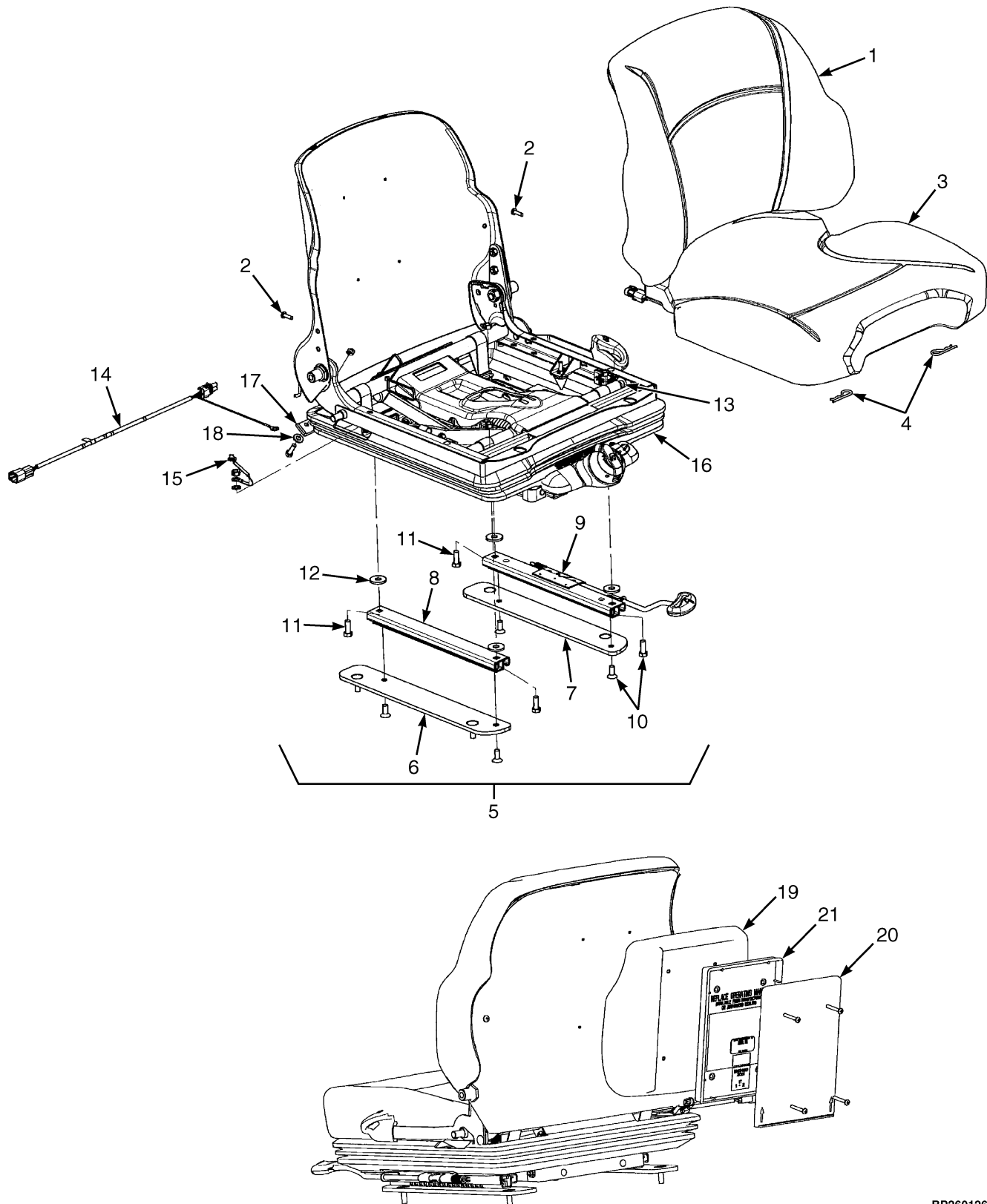


BP121487

NON SUSPENSION SEAT

ITEM	PART NO.	DESCRIPTION	QTY
	4638764	Seat-Non Suspension Assembly	1
1	4615813	Seat-Non Suspension	1
2		RH Hip Restraint	1
3		LH Hip Restraint	1
4	4118204	Plate	1
5	4639540	Seat Rail Assembly (Includes Locking and Slave Seat Rails)	1
6	4030278	Box , Operator Manual	1
7	4030279	Cover	1
8	4639586	Sensor Assembly, Operator Presence (Includes Housing)	1
8	4639542	Sensor , Operator Presence	1
9	1479453	Clamp	1
10	320157	Washer	12
11	292681	Lockwasher	10
12	136749	Screw	14
13	296463	Screw	4
14	2022719	Nut	2
15	1603701	Seat Belt (Standard)	1
15	1641250	Seat Belt , High Visibility, Red	1
15	4053079	Seat Belt (High Visibility with Interlock)	1
16	1382472		
	1502543	Nut	4
17	1581852	Washer	3
18	221530	Capscrew	1
19	221536	Capscrew	1
20	221353	Locknut	2
21	19901	Roll Pin	1
22	4007891	Cover Plate	1
23	296357	Washer	2
24	2107969	Cover (Seat-Side Electrical)	1
25	1694830	Capscrew	2
26	272133	Clamp	1
27	15127	Washer	1
28	292500	Capscrew	2
29	1593334	Nut	2
30		Washer	4
31		Fastener	2

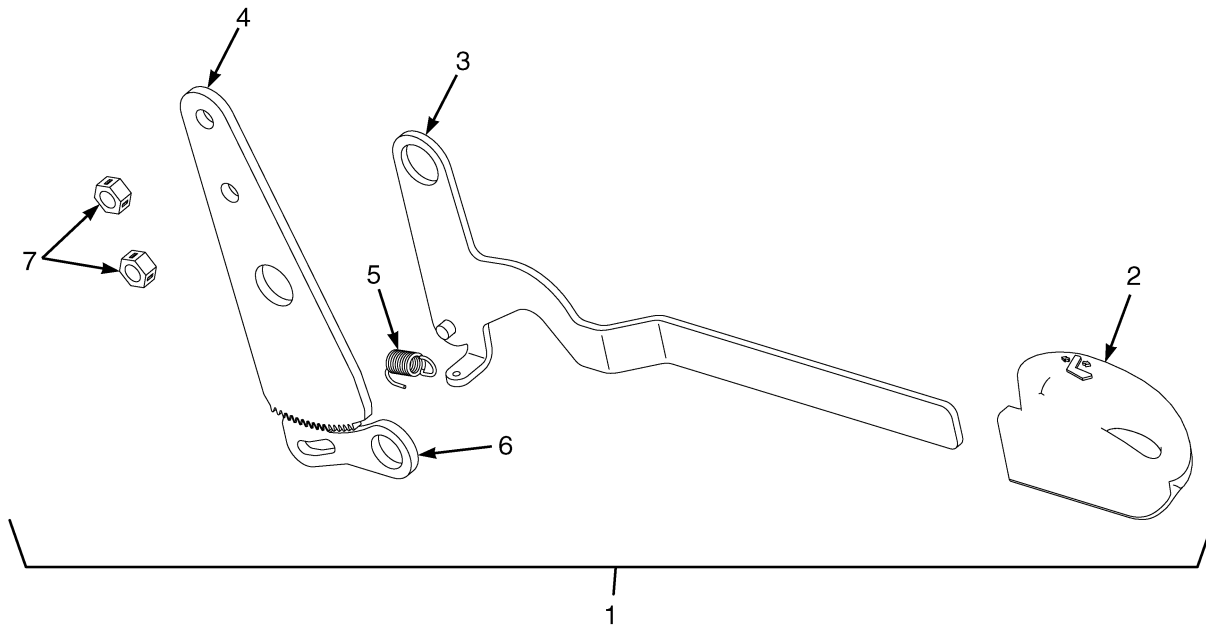
FULL-SUSPENSION SEAT (FIGURE 1-6) SHEET 1 OF 4



BP260126

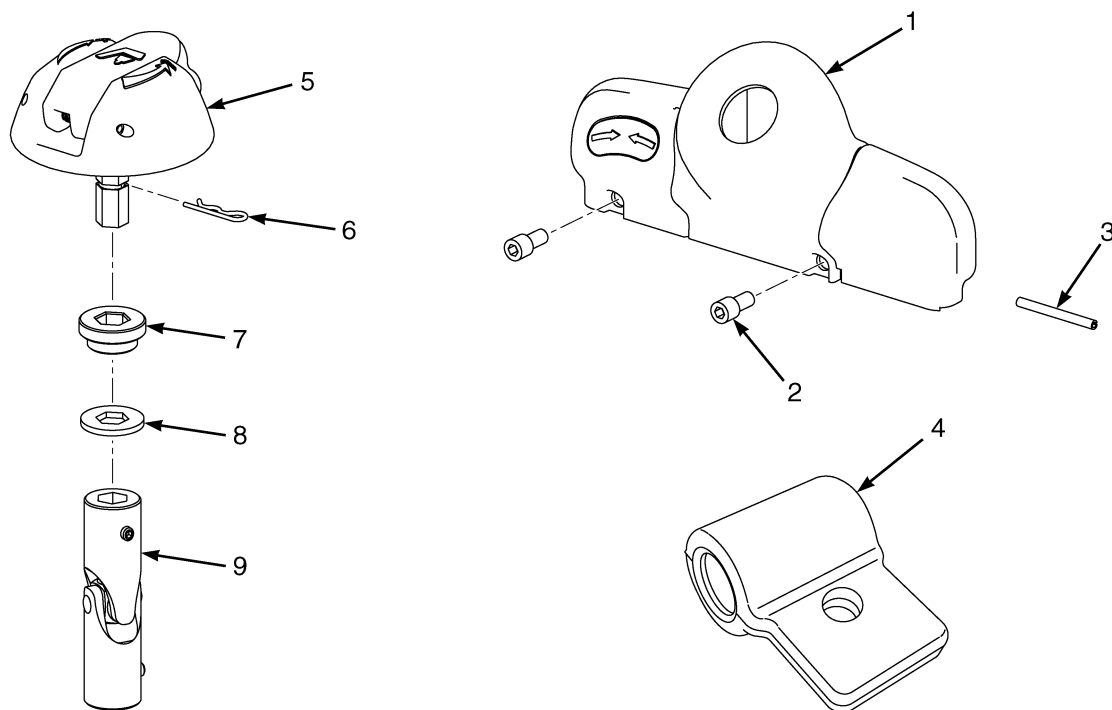
FULL-SUSPENSION SEAT
SHEET 1 OF 4

ITEM	PART NO.	DESCRIPTION	QTY
	4638762	Seat-Full Suspension (Vinyl)	1
	4638763	Seat-Full Suspension (Cloth)	1
1	1703901	Kit-Cushion (Back Cushion, Vinyl)	1
1	1703898	Kit-Cushion (Back Cushion, Cloth)	1
2	1584643	Screw	2
3	4151990	Kit-Seat Cushion (Vinyl)	1
3	4151991	Kit-Seat Cushion (Cloth)	1
3	4151994	Seat Cushion (Vinyl)	1
3	4151995	Seat Cushion (Cloth)	1
4	1513089	Cotter Pin (Hair)	2
5	4151992	Kit-Seat Rail	1
6		Plate (LH)	1
7		Plate (RH)	1
8		Seat Rail (Slave)	1
9		Seat Rail (Locking)	1
10	296482	Screw	4
11	18496	Capscrew	4
12	1482995	Washer	4
13	1367150	Nut	4
14	4151993	Kit-Wire Harness	1
15	893818	Wire (Ground)	1
16	4036586	Kit -Seat Suspension without Swivel	1
17	4027341	Bracket (Angle Control)	1
18	1482995	Washer	1
19	1482925	Plate (Book Box)	1
20	1482950	Cover	1
21	4058157	Box (Book)	1

**FULL SUSPENSION SEAT (FIGURE 1-7)
RECLINER KIT — SHEET 2 OF 4**

BP260124

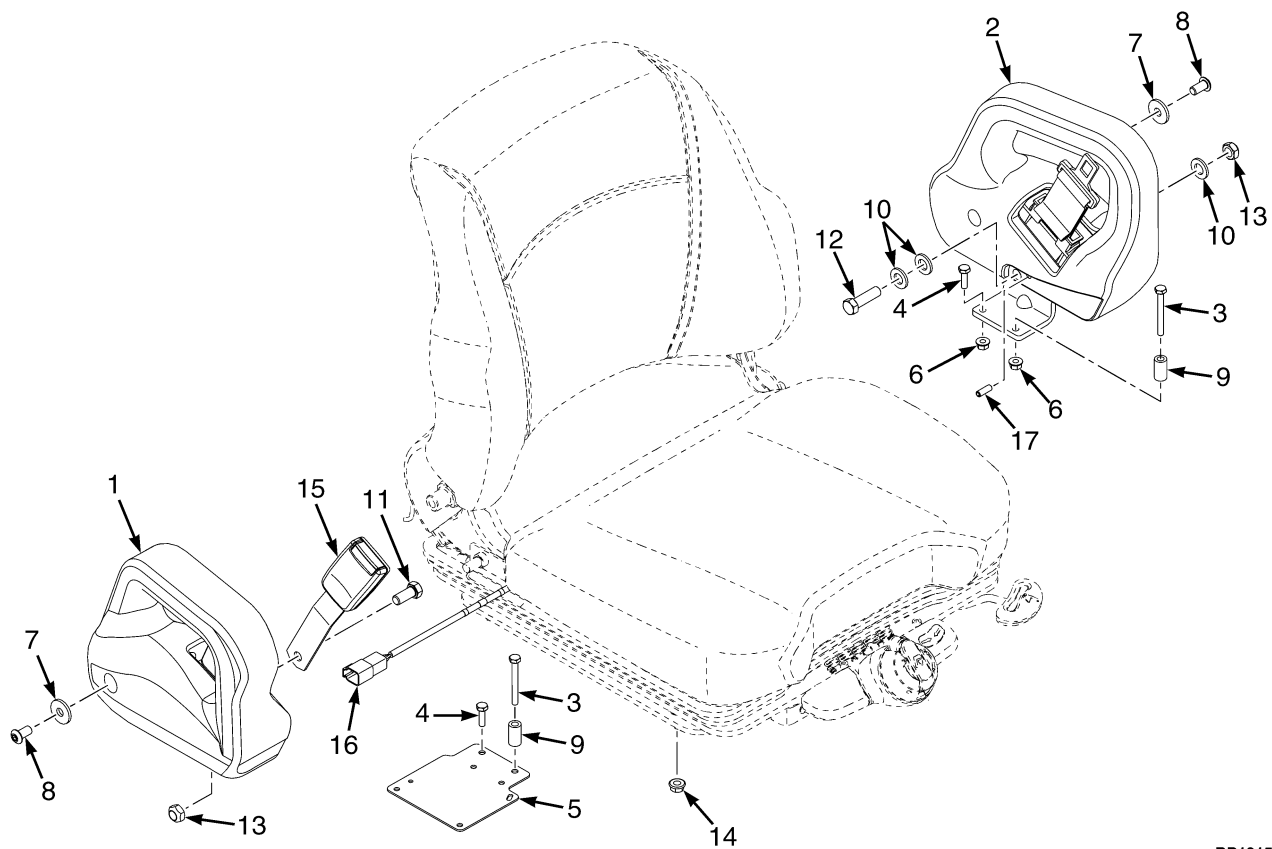
ITEM	PART NO.	DESCRIPTION	QTY
1	1703891	Kit-Recliner (Back Seat Adjustment)	1
2		Knob	1
3		Lever	1
4	1482905	Plate	1
5		Spring	1
6	1482906	Latch	1
7	1367150	Nut	2

FULL SUSPENSION SEAT (FIGURE 1-8)
SERVICE KITS FOR NON-SWIVEL — SHEET 3 OF 4

BP121233

ITEM	PART NO.	DESCRIPTION	QTY
	4036586	Kit -Seat Suspension without Swivel	1
1	1703893	Kit-Service (Front Panel) (Non-Swivel)	1
1		Front Panel	1
2		Capscrew	2
3		Roll Pin	1
4	4046492	Lever (Spring Pull)	2
5	1703892	Kit-Weight Adjuster	1
5		Knob	1
6		Cotter Pin	1
7		Bushing	1
8		Washer	1
9		U-Joint	1

FULL SUSPENSION SEAT (FIGURE 1-9) MANUAL HYDRAULIC NON-SWIVEL — SHEET 4 OF 4

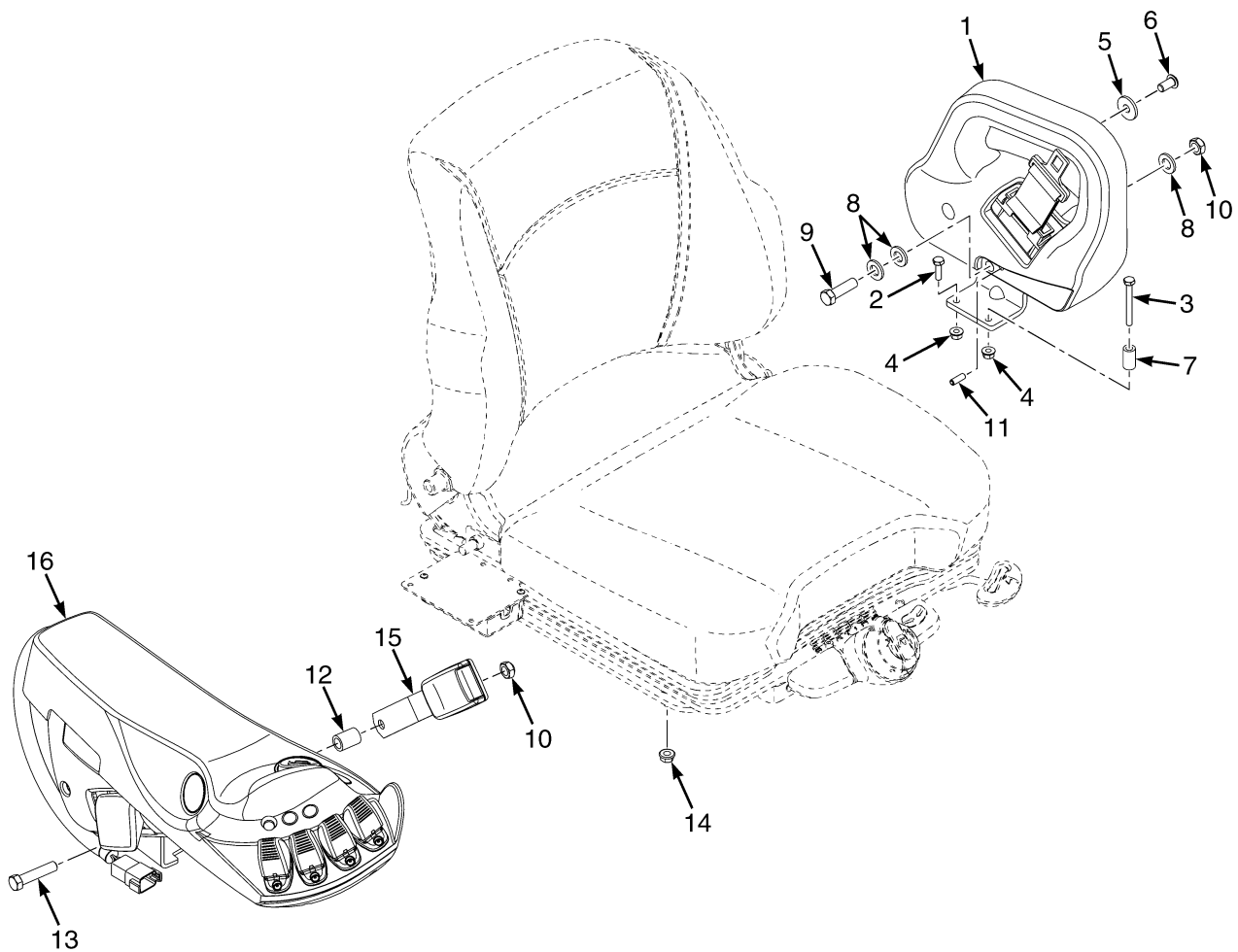


BP121549

**FULL SUSPENSION SEAT
MANUAL HYDRAULIC NON-SWIVEL – SHEET 4 OF 4**

ITEM	PART NO.	DESCRIPTION	QTY
1	2099951	Armrest (Right-Hand Side)	1
2	4612911	Armrest (Left-Hand Side)	1
3	18473	Capscrew	2
4	18462	Capscrew	2
5	4004776	Cover Plate	1
6	169874	Nut	4
7	1512536	Washer	2
8	18735	Screw	2
9	4007318	Spacer	2
10	1581852	Washer	3
11	221530	Capscrew	1
12	221536	Capscrew	1
13	221353	Locknut	2
14	1382472 1502543	Nut	4
15	4154326	Seat Belt (Standard)	1
15	1641250	Seat Belt , High Visibility, Red	1
15	4156292	Seat Belt (High Visibility Interlock) (Alternate Part)	1
16	4653525	Wire Harness (Alternate Part)	1
17	19901	Roll Pin	1

FULL SUSPENSION SEAT (FIGURE 1-10) ELECTRO-HYDRAULIC NON-SWIVEL — SHEET 4 OF 4

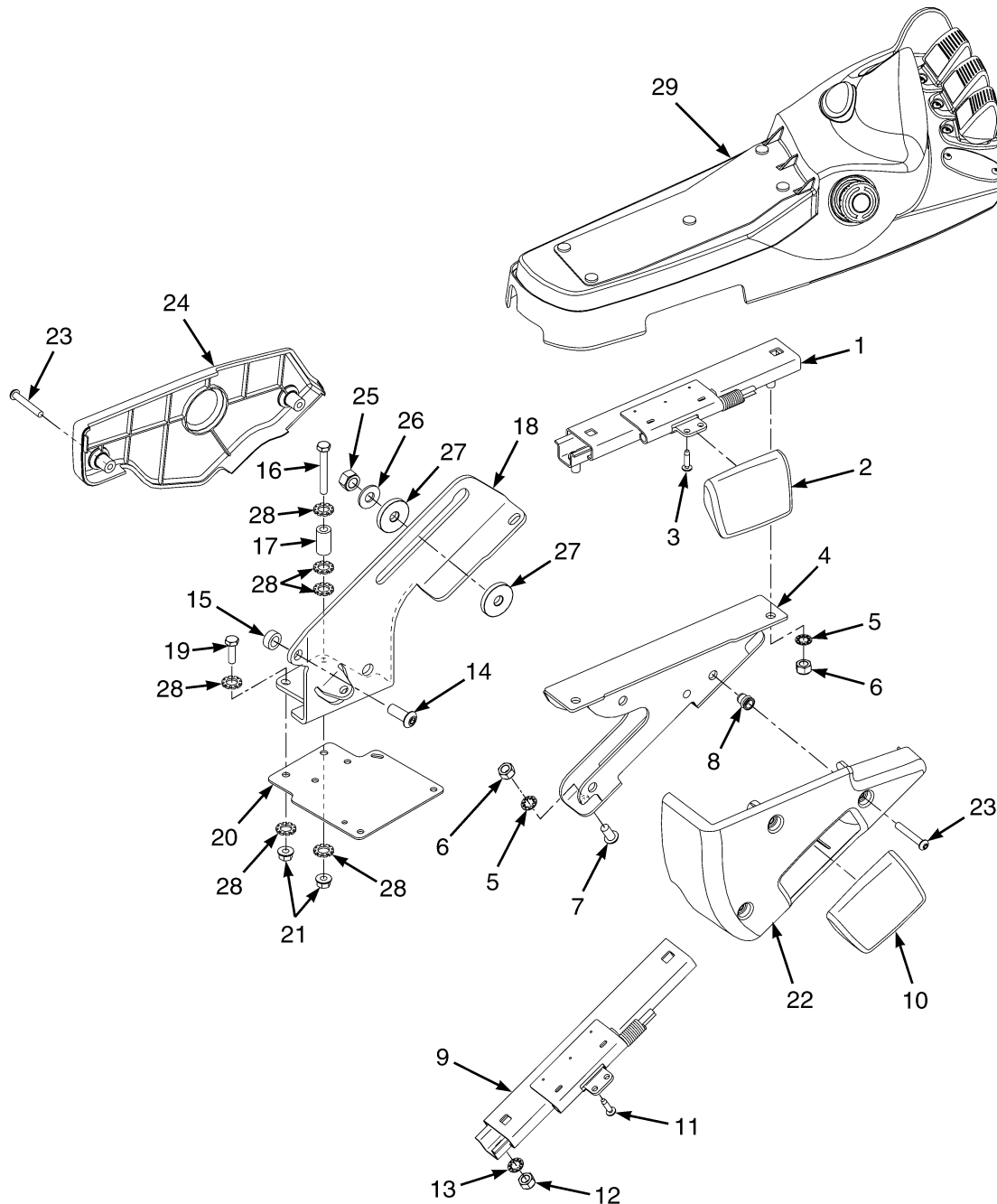


BP121548

**FULL SUSPENSION SEAT
ELECTRO-HYDRAULIC NON-SWIVEL – SHEET 4 OF 4**

ITEM	PART NO.	DESCRIPTION	QTY
1	4612911	Armrest (Left-Hand Side)	1
2	18462	Capscrew	1
3	18473	Capscrew	1
4	169874	Nut	2
5	1512536	Washer	1
6	18735	Screw	1
7	4007318	Spacer	1
8	1581852	Washer	3
9	221536	Capscrew	1
10	221353	Locknut	2
11	19901	Roll Pin	1
12	1694700	Spacer	1
13	221542	Capscrew	1
14	1382472		
	1502543	Nut	4
15	1603701	Seat Belt (Standard)	1
15	1641250	Seat Belt , High Visibility, Red	1
16		Armrest (☞ Figure 1-11).....	1
16	4005010	Armrest (Slider for Mini Lever) (☞ Figure 1-11).....	1
16		Mini-Lever Modules (☞ Figure 5-17, ☞ Figure 5-18).....	1

ARMREST SLIDER ASSEMBLY (FIGURE 1-11)

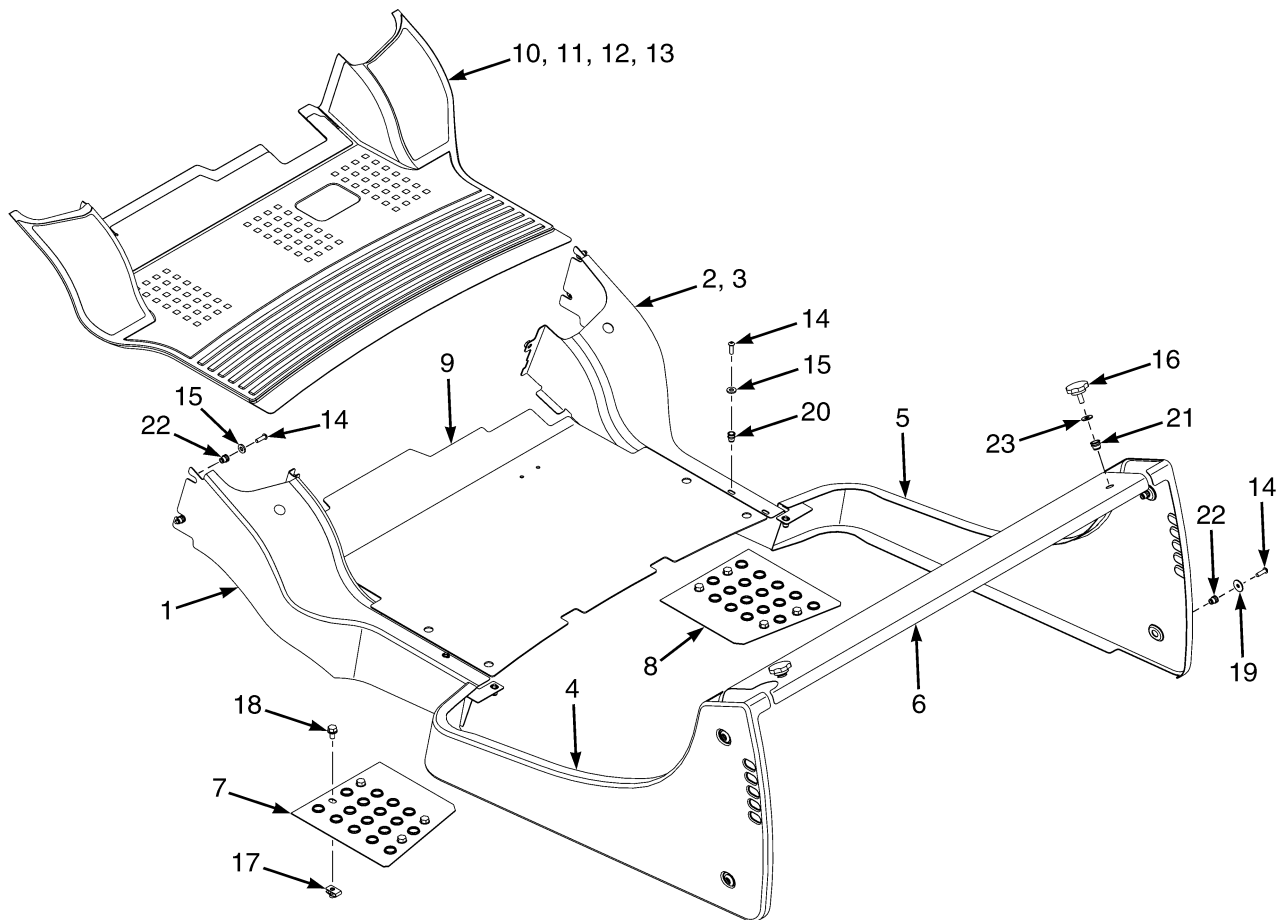


BP121412

ARMREST SLIDER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4005010	Armrest (Slider for Mini Lever)	1
1		Armrest (Handle Slide - Upper)	1
1	1661511	Armrest (Slider)	1
2	1655865	Handle (Slider)	1
3	227157	Screw	2
4		Bracket Weldment	1
5	296360	Washer	4
6	313828	Nut	4
7	296165	Capscrew	2
8	1531558	Insert	3
9		Armrest (Handle Slide Assy)	1
9	1661511	Armrest (Slider)	1
10	1655865	Handle (Slider)	1
11	227157	Screw	2
12	313828	Nut	2
13	296360	Washer	2
14	18738	Capscrew	1
15	4007319	Spacer	1
16	18473	Capscrew	1
17	4007318	Spacer	1
18	4004775	Bracket	1
19	18462	Capscrew	1
20	4004776	Cover Plate	1
21	169874	Nut	2
22	4603492	Cover	1
23	2062875	Capscrew	5
24	4603493	Cover	1
25	316826	Nut	1
26	320160	Washer	1
27	1650640	Washer	2
28	296379	Washer	6
29		Mini-Lever Control Arm ( Figure 5-17,  Figure 5-18).....	1

FLOORPLATES AND COVERS (FIGURE 1-12) LPG

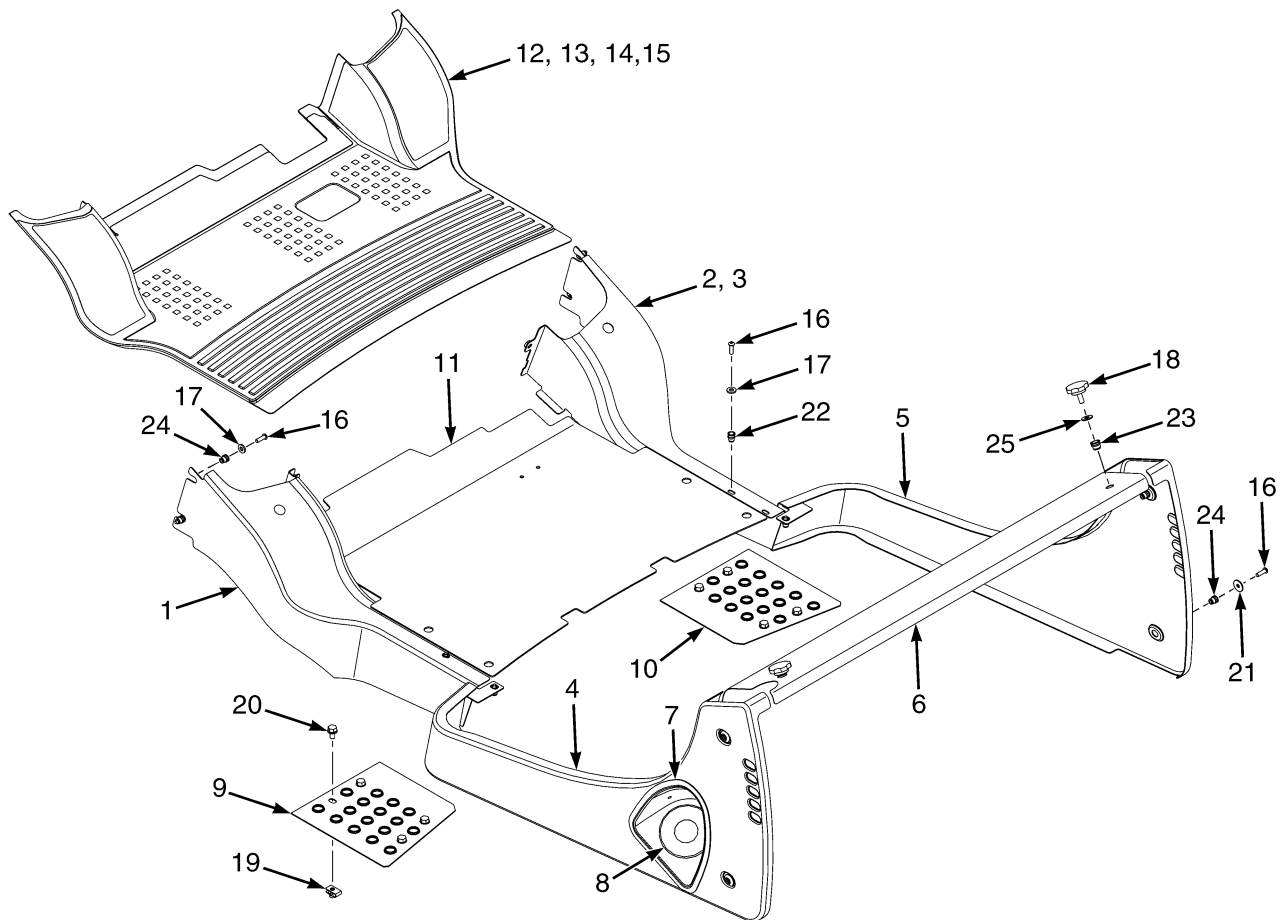


BP200312

FLOORPLATES AND COVERS
LPG**KEY:****A: Standard****B: Monotrol**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4606026	Panel (Front, LH)	1	1
2	4606027	Panel (Front, RH)	1	1
4	2081357	Panel (Rear, LH)	1	1
5	2081358	Panel (Rear, RH)	1	1
6	4109638	Cover (Radiator)	1	1
7	4145524	Step (LH)	1	1
8	4145525	Step (RH)	1	1
9	4600091	Steel Plate (Floor)	1	1
10	4604644	Floormat (Standard)	1	..
12	4604645	Floormat (Monotrol)	..	1
14	1710006	Capscrew	12	12
15	4149893	Washer	8	8
16	2070024	Bolt	2	2
17	1480237	Nut , Foldover	8	8
18	1613324	Capscrew	8	8
19	1709980	Washer	4	4
20	1531001	Insert	4	4
21	1530243	Insert	2	2
22	1531001	Insert	8	8
23	1581851	Washer	2	2

FLOORPLATES AND COVERS (FIGURE 1-13) DIESEL AND BI-FUEL

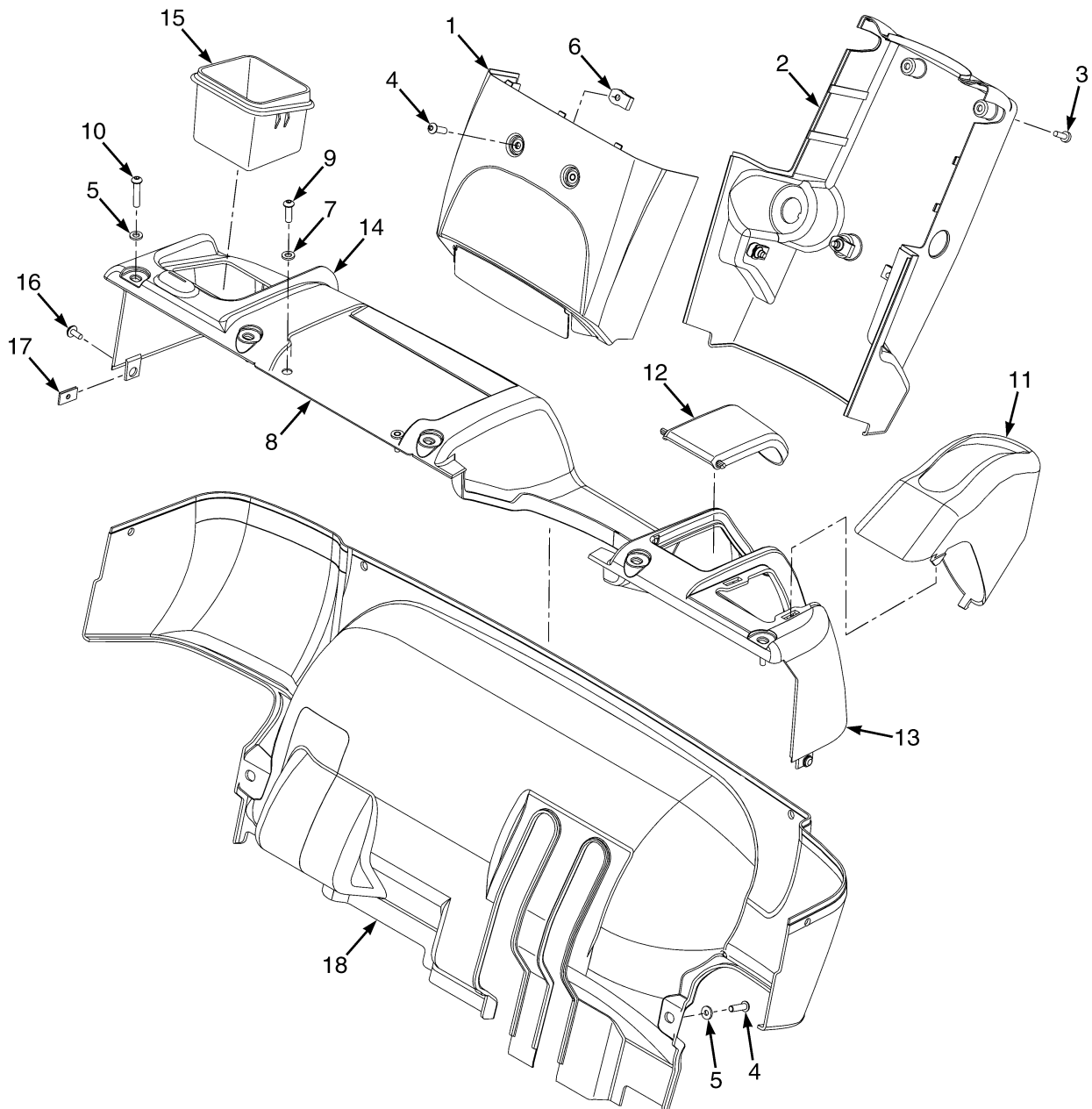


BP200313

**FLOORPLATES AND COVERS
DIESEL AND BI-FUEL****KEY:****A: Standard****B: Monotrol**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4606026	Panel (Front, LH)	1	1
2	4606027	Panel (Front, RH)	1	1
4	2081356	Panel (Rear, LH)	1	1
5	2081358	Panel (Rear, RH)	1	1
6	4109638	Cover (Radiator)	1	1
7	4650883	Splash Guard (Fuel Filler)	1	1
8	2080066	Packing (Fuel)	1	1
9	4145524	Step (LH)	1	1
10	4145525	Step (RH)	1	1
11	4600091	Steel Plate (Floor)	1	1
12	4604644	Floormat (Standard)	1	..
13	4156658	Floormat (Monotrol)	..	1
16	1710006	Capscrew	12	12
17	4149893	Washer	8	8
18	2070024	Bolt	2	2
19	1480237	Nut , Foldover	8	8
20	1613324	Capscrew	8	8
21	1709980	Washer	4	4
22	1531001	Insert	4	4
23	1530243	Insert	2	2
24	1531001	Insert	8	8
25	1581851	Washer	2	2

INTERIOR PANELS AND COVERS (FIGURE 1-14)



BP200314

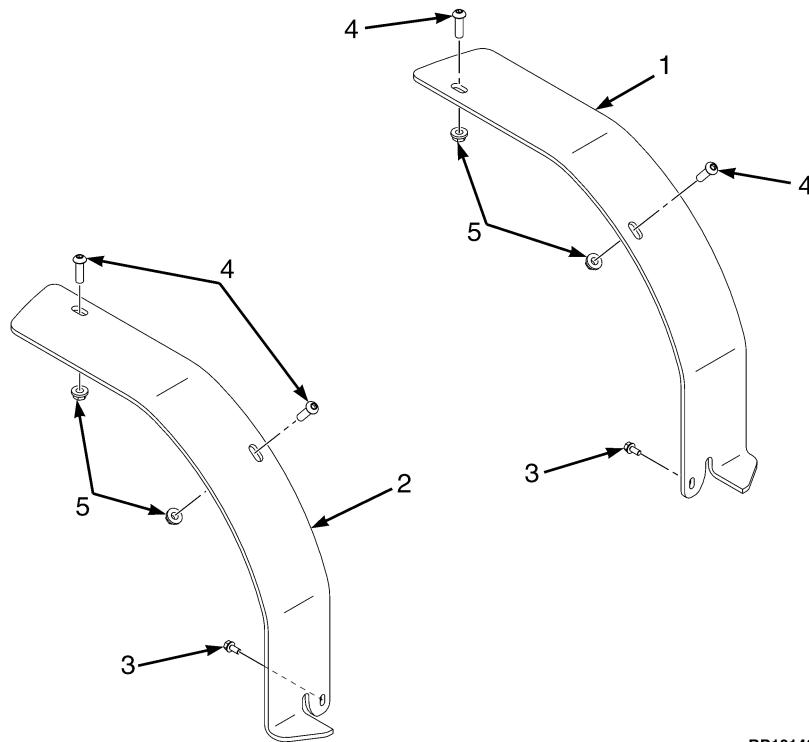
INTERIOR PANELS AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	2080168	Cover (Column Front)	1
1	d 4659016	Cover (Column Front)	1
2	b 4639585	Cover (Column Back)	1
2	e 4179803	Cover (Column Back)	1
3	2027655	Screw	2
4	1710006	Capscrew	7
5	4149893	Washer	15
6	1566420	Nut (Foldover)	5
7	4149893	Washer	2
8	4144761	Cover Plate	1
9	1534417	Capscrew	2
10	1710007	Capscrew	5
11	4659260	Cover (Parking Lever)	1
11	c 2082105	Cover (Parking Lever)	1
12	2082106	Cover (Reserve Tank)	1
13	2082102	Panel (LH Dash)	1
14	2082103	Dash Panel (RH)	1
14	c 4179801	Dash Panel (RH)	1
15	2027356	Cup Holder	1
16	2084606	Screw	4
17	2091344	Nut	4
18	2082104	Panel (Kick, Standard)	1
18	2083480	Panel (Kick, Monotrol)	1
	a 2092207	Cover (Mounting Panel)	5
	a 4153136	Ignition Switch (Located in Steering Column Back Cover)	1
	a 1687435	Knob (Keyless Start)	1
	a 1337197	Key Set	1

FOOTNOTES:

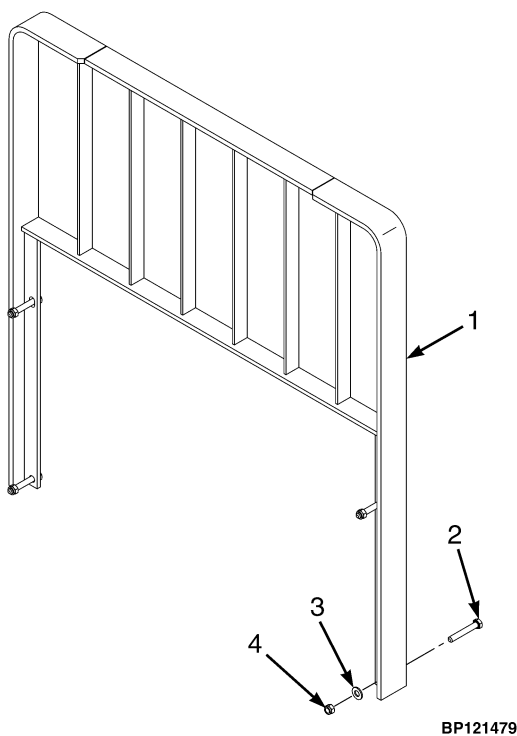
- | | |
|---|---|
| a Not illustrated | d With Telemetry Level 1 through 3 |
| b Standard and Telemetry Level 1 | e With Telemetry Level 2 and 3 |
| c With 12V Outlet | |

FENDER EXTENSIONS (FIGURE 1-15)



BP121480

ITEM	PART NO.	DESCRIPTION	QTY
1	4125465	Fender (RH H40-50XT)	1
1	4125466	Fender (RH H60XT)	1
2	4125157	Fender (LH H40-50XT)	1
2	4125158	Fender (LH H60XT)	1
3	1608654	Capscrew	2
4	2076289	Capscrew	4
5	1586432	Nut	4

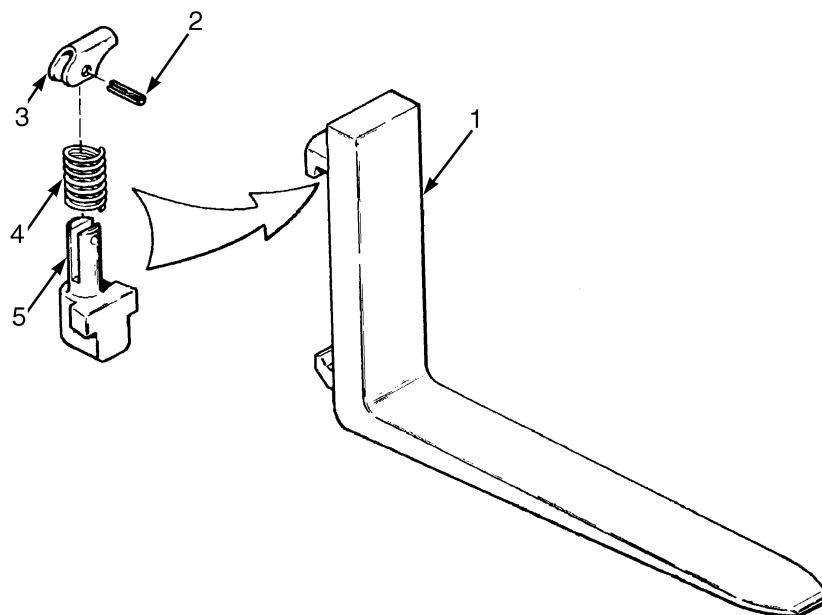
LOAD BACKREST EXTENSION (FIGURE 1-16)

ITEM	PART NO.	DESCRIPTION	QTY
1	4134518	Load Backrest (42 in) (Class II)	1
1	4134522	Load Backrest (42 in.) (Class III)	1
2	1581838	Capscrew	4
2	a 1581593	Capscrew	4
3	1581853	Washer	4
4	1581849	Nut	4

FOOTNOTES:

a With Integral Side Shift

FORKS (FIGURE 1-17)



HP120793

KEY:

A: Standard, Class II (3.9 in. x 1.6 in.)

B: Standard, Class III (4.9 in. x 2 in.)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4083380	Fork (43 in.) (BOLZONI)	2	..
1	4083381	Fork (47 in.) (BOLZONI)	2	..
1	4083873	Fork (43 in.) (BOLZONI)	..	2
1	4083875	Fork (47 in.) (BOLZONI)	..	2
1	4083879	Fork (54 in.) (BOLZONI)	..	2
1	4083880	Fork (60 in.) (BOLZONI)	..	2
1	4083882	Fork (72 in.) (BOLZONI)	..	2
2	4083646	Lever	1	1
3	4083647	Pin	1	1
4	4083648	Spring	1	1
5	1523733	Pin	1	..
5	1523737	Pin	..	1
5	4083649	Pin (CLASS II)	1	..
5	4083651	Pin (CLASS III)	..	1

NOTES

[illegible]

14

WARNING
DO NOT REMOVE THIS GUARD
This overhead guard provides protection for the operator from falling objects but cannot protect against every possible impact. RESISTANCE TO IMPACT: Impact Test Rating At Least 6x, 5000 Foot Pounds

13

12
HYSTER

11
WARNING
DO NOT REMOVE THIS GUARD

10
CAUTION
DO NOT REMOVE THIS GUARD

5
WARNING
NO RIDERS!

6
NOTICE TO USER
The U.S. A Occupational Safety and Health Act of 1970 and other national safety codes require a new plate if this unit is equipped after then listed on plate. Obtain the correct plate from your authorized dealer.

7

8

4
HSS
HYDRA STABILITY SYSTEM

3
50XT

2

1
WARNING
TRAINED PERSONNEL ONLY
This unit is designed for use by trained personnel only. It is not to be operated by untrained personnel. It is not to be used for any purpose other than that for which it was designed. It is not to be used for any purpose other than that for which it was designed. It is not to be used for any purpose other than that for which it was designed.

9
USE UNDERWRITERS LABORATORIES INCORPORATED LISTED INDUSTRIAL TRUCK LP GAS CONTAINER ASSEMBLY WITH THESE MARKINGS:
CAPACITY
TYPE OF MOUNTING
DISCONNECT COUPLING
TYPE OF WITHDRAWAL
ACME TYPE
LIQUID

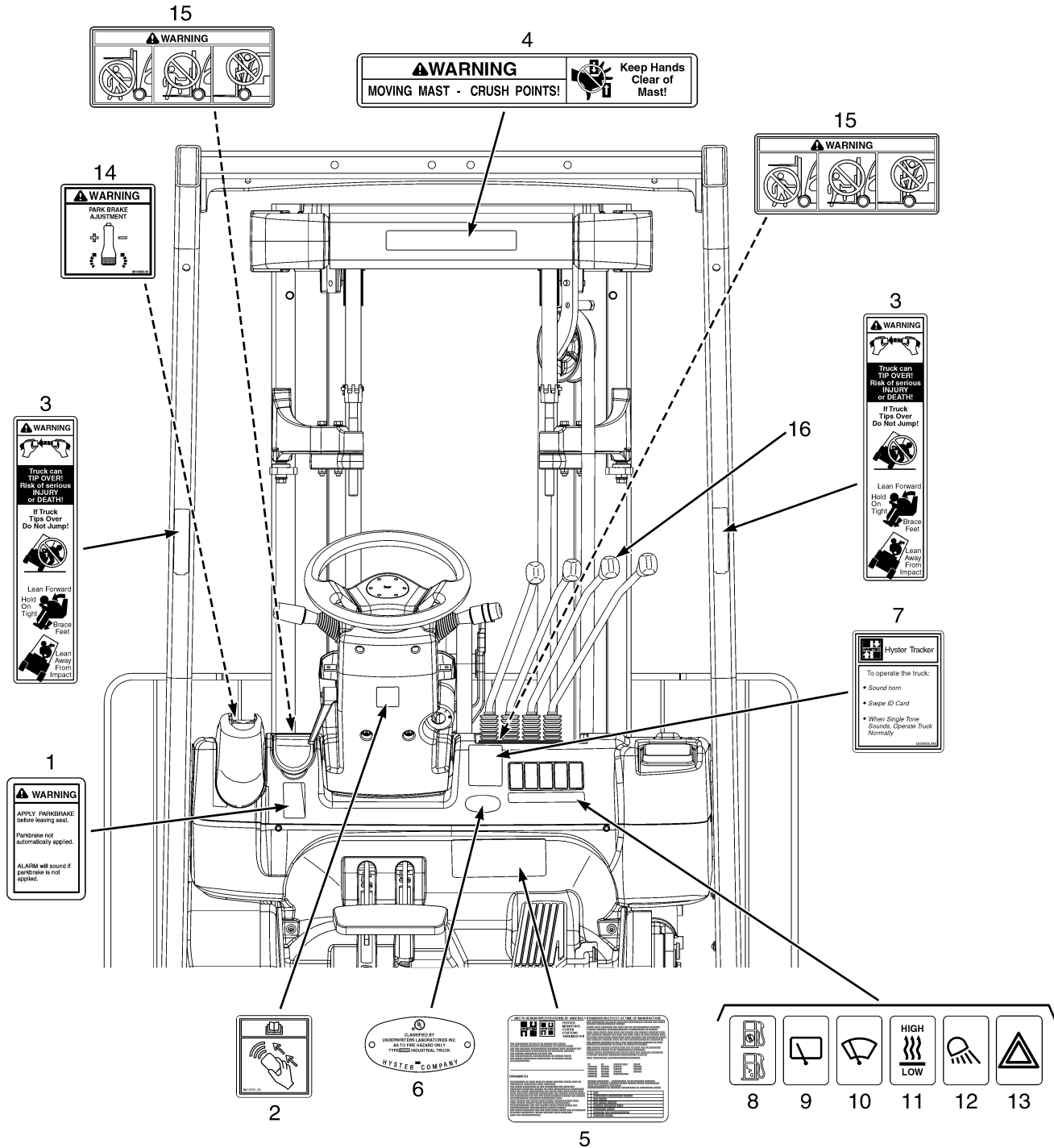
HP121691

NAMEPLATES AND LABELS
SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	4149529	Label -HYSTER	1
2	505977555	Label	1
3	4120660	Label (H40XT)	2
3	4120661	Label (H50XT)	2
3	4120662	Label (H60XT)	2
4	4035750	Label (Stability System)	2
5	505972566	Label (No Riders)	2
6	1574147	Nameplate (Incomplete Truck)	1
6	1335412	Label	1
7	389688	Nameplate Cover	1
8	170658	Rivet	6
9	1501258	Nameplate (LP Tank)	1
10	2075417	Label (Locking Gas Spring)	1
11	1339832	Label (Pinch Point)	1
12	1562353	Label (Hyster)	2
13	a	Label-Overhead Guard Impact Rating	1
14	2074501	Label	1
15	1328205	Label (Replace Operator Manual)	1
16	2034460	Label (Ether Warning)	1

FOOTNOTES:**a** Contact Your Local Hyster Dealer

NAMEPLATES AND LABELS (FIGURE 1-19) SHEET 2 OF 2



HP121693

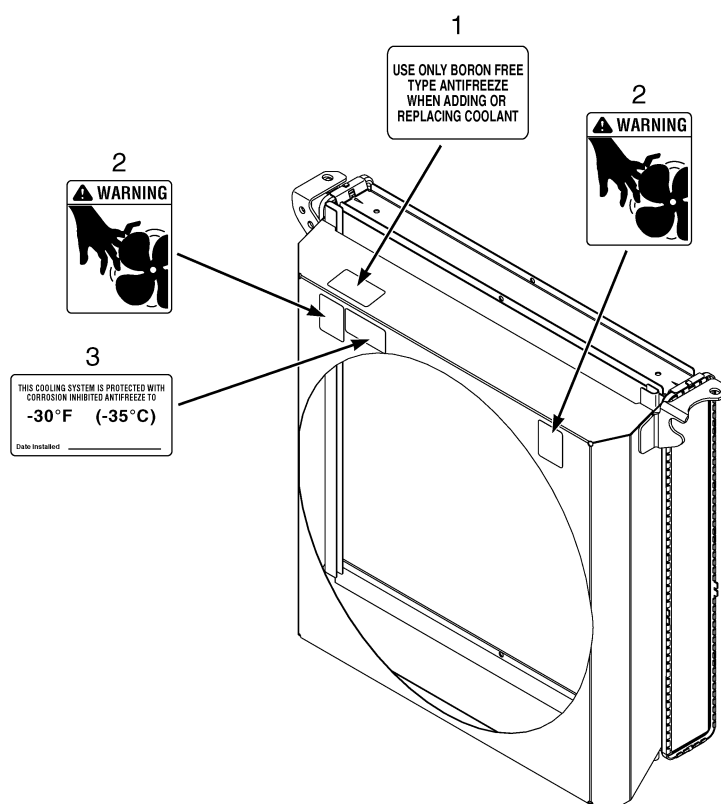
NAMEPLATES AND LABELS
SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
1	2074209	Label (Parking Brake Warning)	1
1	2074599	Label	1
2	4623436	Label (ID Card Reader)	1
3	4651225	Label Operator Restraint	2
4	1343277	Label (Mast Warning)	1
5	1534660	Label (Patents and Trademarks)	1
6	a	Label-UL Serialized (LPG)	1
6	a	Label-UL Serialized (Dual-Fuel)	1
7	4059405	Label System Act Type C	1
8	4641249	Label (Dual-Fuel Switch)	1
9	2086973	Label (Rear Wiper)	1
10	2086971	Label (Front Wiper)	1
11	2086974	Label Cab Heater Switch	1
12	2093355	Label (Rear Work Light)	1
13	4150395	Label (Hazard Lights)	1
14	1339832	Label (Pinch Point) (Pinch Point)	1
15	2075655	Label (Mast Warning)	1
16	4657061	Label Clamp	1
16	2102678	Label Positioner	1

FOOTNOTES:

- a** Contact your local Hyster Dealer

LABELS (FIGURE 1-20) RADIATOR

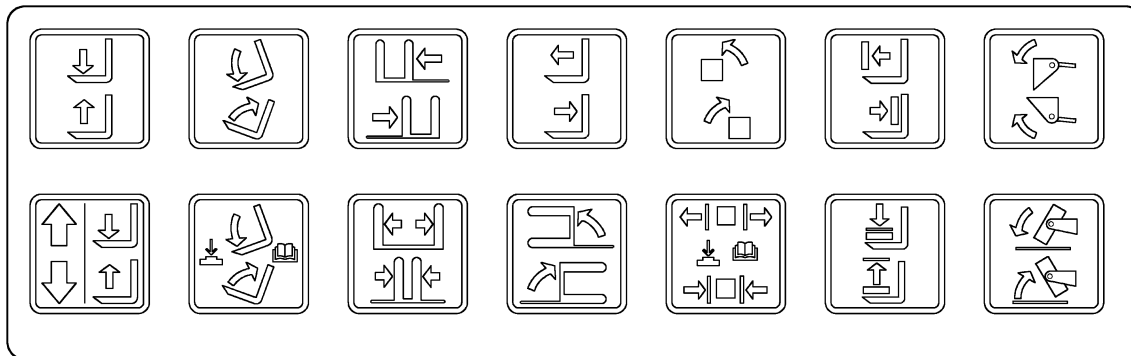
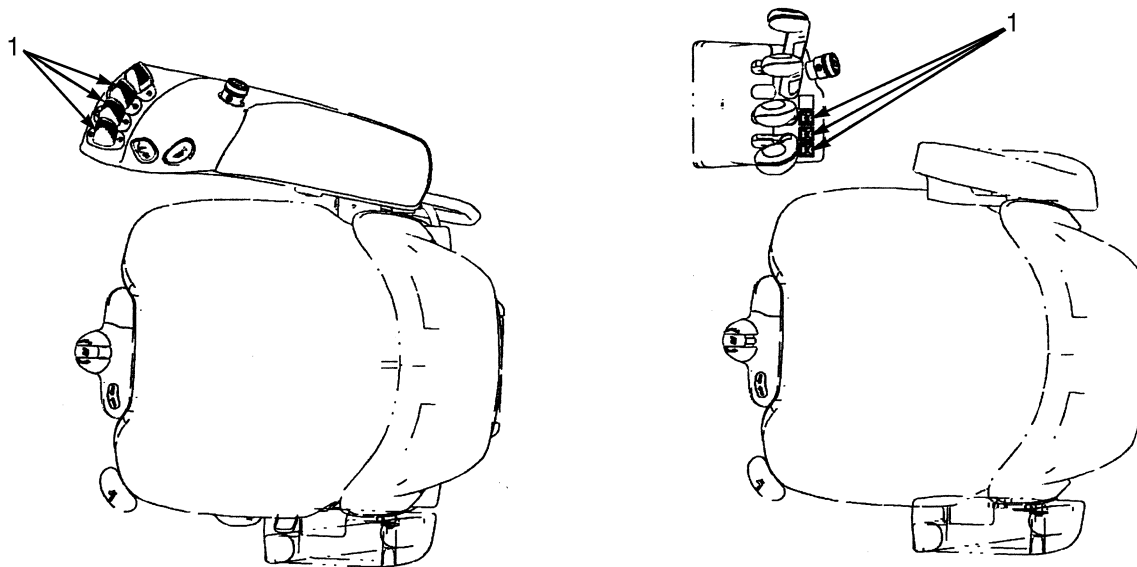


BP121546

**LABELS
RADIATOR**

ITEM	PART NO.	DESCRIPTION	QTY
1	1375677	Label-Boron Free Anti-	1
2	1300094	Label (Fan Warning)	2
3	1354165	Label (Antifreeze)	1

LABELS (FIGURE 1-21) HYDRAULIC CONTROL FUNCTIONS — MINI LEVER MODULE



BP120427

LABELS
HYDRAULIC CONTROL FUNCTIONS – MINI LEVER MODULE

ITEM	PART NO.	DESCRIPTION	QTY
1	2102640	Label , Mini Lever	1

[illegible]

2

ENGINE ASSEMBLY - LPG

SECTION 2
ENGINE ASSEMBLY - LPG

DESCRIPTION	PAGE
ALTERNATOR	
PSI 2.4L	2-40
BALANCER	
PSI 2.4L	2-38
CAB HEATER COOLANT	
PSI 2.4L	2-41
CAMSHAFT AND VALVES	
PSI 2.4L	2-30
COOLING SYSTEM	
PSI ANTI-CLOG	2-6
PSI STANDARD	2-4
COUNTERWEIGHT EXHAUST	
WITH CATALYTIC CONVERTER - PSI 2.4L LPG AND 2.4L BI-FUEL	2-12
WITHOUT CATALYTIC CONVERTER - PSI 2.4L LPG AND 2.4L BI-FUEL	2-14
CYLINDER BLOCK	
PSI 2.4L	2-26
CYLINDER HEAD	
PSI 2.4L	2-28
DIPSTICK AND TUBE	
PSI 2.4L LPG	2-50
DSR COOLANT CIRCUIT	
PSI 2.4L LPG	2-52
ELECTRICAL SENSORS	
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PSI 2.4L LPG AND 2.4L BI-FUEL	2-20
ENGINE CONTROL MODULE MOUNTING	
PSI 2.4L	2-17
ENGINE MOUNTING	
PSI ENGINE	2-16
EXHAUST MANIFOLD	
PSI 2.4L	2-42
FAN ASSEMBLY	2-24
FLYWHEEL MOUNTING HARDWARE	
PSI 2.4L LPG AND 2.4L BI-FUEL	2-21
FRONT COVER AND OIL PAN	
PSI 2.4L	2-44
HI-FAN ASSEMBLY	
PSI 2.4L LPG AND 2.4L BI-FUEL	2-22
IGNITION COIL	
PSI 2.4L	2-36
INTAKE MANIFOLD	
PSI 2.4L LPG AND 2.4L BI-FUEL	2-43
OIL PUMP AND ATTACHING PARTS	
PSI 2.4L	2-46
OVERHEAD EXHAUST	
WITH CATALYTIC CONVERTER - PSI 2.4L LPG AND 2.4L BI-FUEL	2-8
WITHOUT CATALYTIC CONVERTER - PSI 2.4L LPG AND 2.4L BI-FUEL	2-10

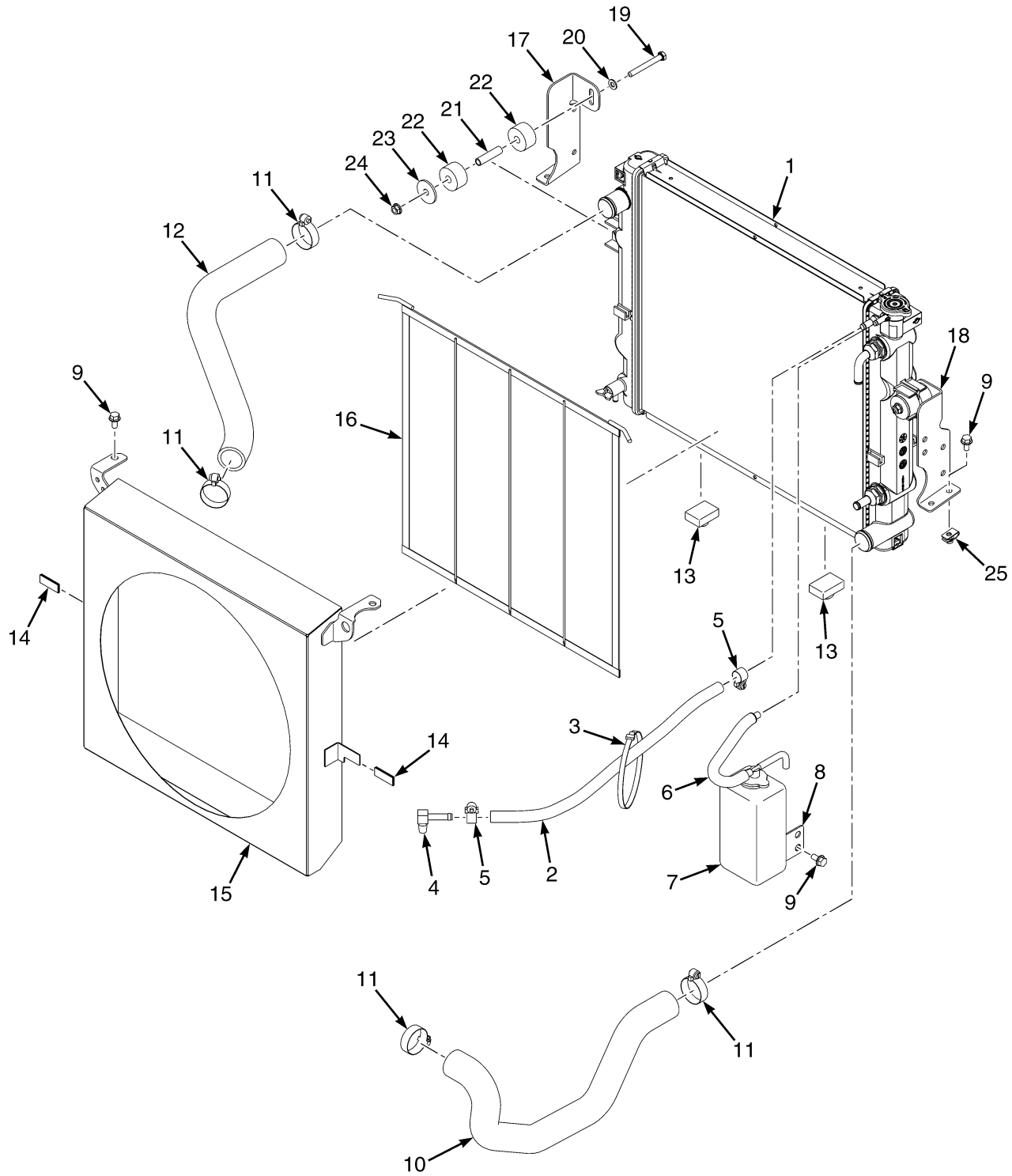
**SECTION 2
ENGINE ASSEMBLY - LPG**

DESCRIPTION	PAGE
PISTON AND CRANKSHAFT	
PSI 2.4L	2-34
PUMP MOUNT BRACKET	
PSI 2.4L LPG AND 2.4L BI-FUEL	2-49
ROCKER COVER	
PSI 2.4L	2-32
STARTER	
PSI 2.4L	2-39
TRANSMISSION FLEX PLATE	
PSI 2.4L	2-19
WATER OUTLET	
WITHOUT CAB HEATER - PSI 2.4L LPG AND 2.4L BI-FUEL	2-51
WATER PUMP	
PSI 2.4L	2-48

NOTES

[illegible]

COOLING SYSTEM (FIGURE 2-1) PSI STANDARD



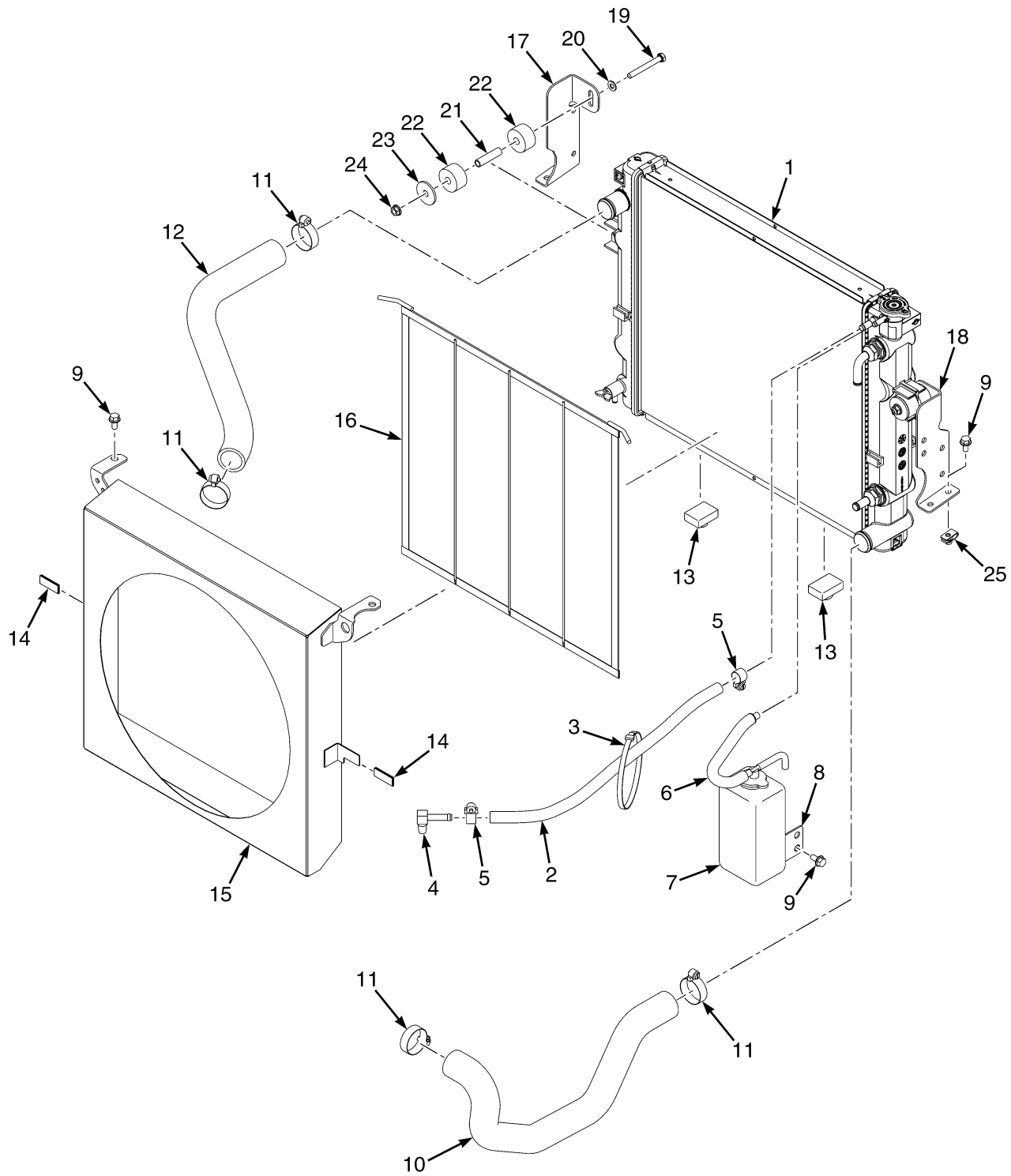
BP060155

**COOLING SYSTEM
PSI STANDARD****KEY:****A: Standard without Lint Screen****B: Standard with Lint Screen**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4643831	Radiator	1	1
1	4180891	Plug (Drain)	1	1
1	4180892	Radiator Cap	1	1
2	4644343	Hose (Vent)	1	1
3	323864	Strap Clamp	1	1
4	4155527	Fitting	1	1
5	166857	Clamp	2	2
6	2089649	Protection Tube	1	1
7	2030673	Reservoir	1	1
7	2030675	Conductor	1	1
7	2030677	Hose Assy	2	2
7	2030679	Pipe	1	1
7	2030678	Clamp	1	1
8	2089654	Bracket	1	1
9	4109993			
	1527879	Capscrew	8	8
10	4639609	Radiator Hose (Lower)	1	1
11	369804	Clamp	4	4
12	4644362	Radiator Hose (Upper)	1	1
13	2085801	Rubber Mount	2	2
14	2028265	Plate	2	2
15	4125746	Shroud	1	..
15	4139907	Shroud (With Lint Screen)	..	1
16	2107165	Screen	..	1
17	4110495	Bracket (RH)	1	1
18	4108965	Bracket (LH)	1	1
19	136703	Capscrew	2	2
20	320157	Washer	2	2
21	2029223	Spacer	2	2
22	2021512	Rubber Cushion	4	4
23	2029171	Washer	2	2
24	1382472			
	1502543	Nut	2	2
25	1480237	Nut , Foldover	4	4
	a 1375676	Label (Boron-Free Antifreeze)	1	1
	a 1354165	Label (Antifreeze)	1	1
	a 1345939	Label (Fan Warning)	2	2

FOOTNOTES:**a** Not Illustrated

COOLING SYSTEM (FIGURE 2-2) PSI ANTI-CLOG

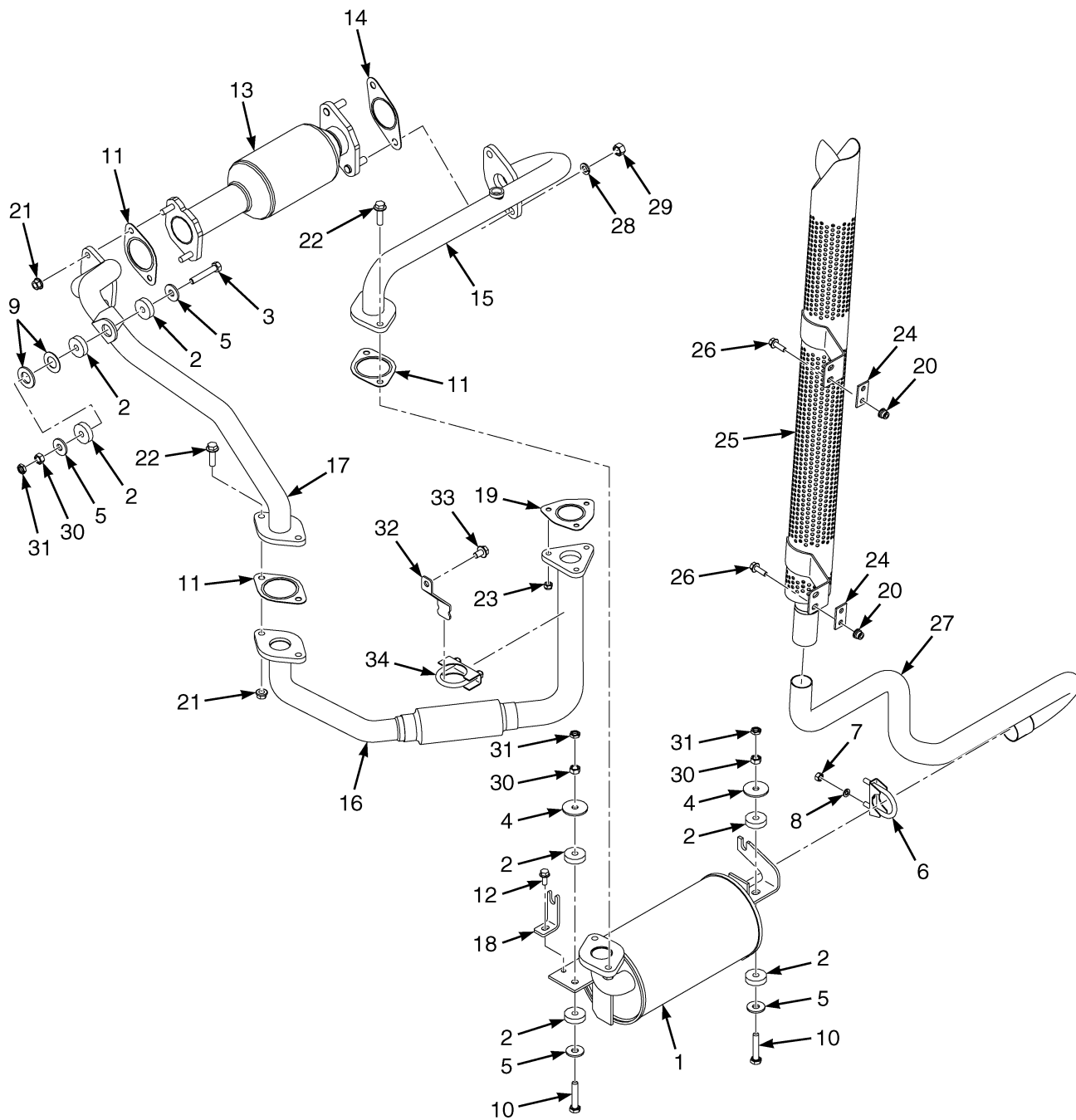


BP060155

**COOLING SYSTEM
PSI ANTI-CLOG****KEY:****A: Without Lint Screen****B: With Lint Screen**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4643832	Radiator	1	1
1	4180891	Plug (Drain)	1	1
1	4180892	Radiator Cap	1	1
2	4644343	Hose (Vent)	1	1
3	323864	Strap Clamp	1	1
4	4155527	Fitting	1	1
5	166857	Clamp	2	2
6	2089649	Protection Tube	1	1
7	2030673	Reservoir	1	1
7	2030675	Conductor	1	1
7	2030677	Hose Assy	2	2
7	2030679	Pipe	1	1
7	2030678	Clamp	1	1
8	2089654	Bracket	1	1
9	4109993			
	1527879	Capscrew	8	8
10	4639609	Radiator Hose (Lower)	1	1
11	369804	Clamp	4	4
12	4644362	Radiator Hose (Upper)	1	1
13	2085801	Rubber Mount	2	2
14	2028265	Plate	2	2
15	4125746	Shroud	1	..
15	4139907	Shroud (With Lint Screen)	..	1
16	2107165	Screen	..	1
17	4110495	Bracket (RH)	1	1
18	4108965	Bracket (LH)	1	1
19	136703	Capscrew	2	2
20	320157	Washer	2	2
21	2029223	Spacer	2	2
22	2021512	Rubber Cushion	4	4
23	2029171	Washer	2	2
24	1382472			
	1502543	Nut	2	2
25	1480237	Nut , Foldover	4	4

OVERHEAD EXHAUST (FIGURE 2-3) WITH CATALYTIC CONVERTER — PSI 2.4L LPG AND 2.4L BI-FUEL

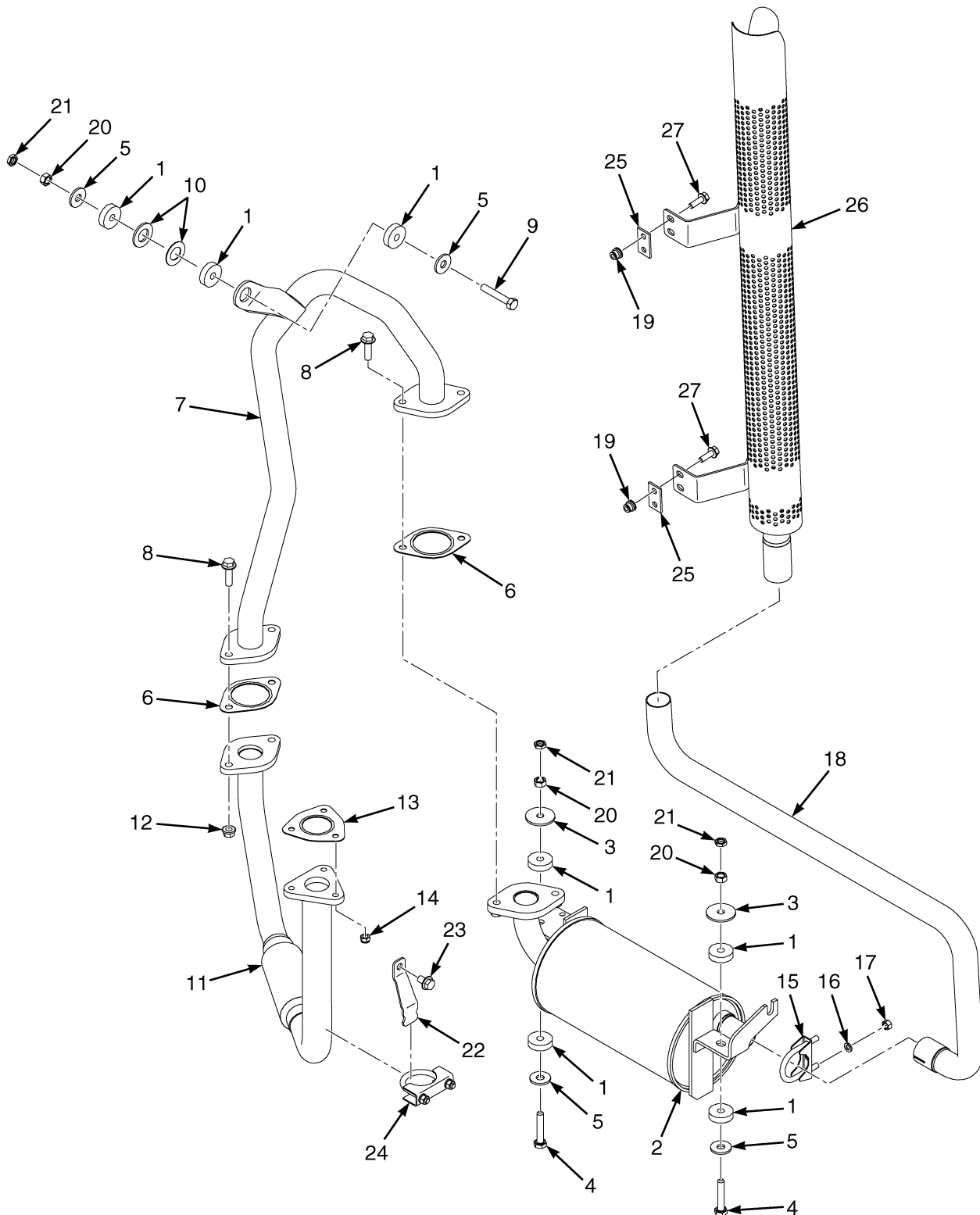


BP110193

OVERHEAD EXHAUST
WITH CATALYTIC CONVERTER – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	4113478	Muffler	1
2	1351177	Rubber Cushion	7
3	302294	Capscrew	1
4	1351176	Washer	2
5	2022973	Washer	4
6	2081919	Clamp	1
7	2022719	Nut	2
8	292681	Lockwasher	2
9	2023006	Shim (T=3.2)	1
9	2023007	Shim (T=1.2)	1
10	292518	Capscrew	2
11	4086499	Gasket	3
12	1527880	Capscrew	1
13	4060812	Catalytic Converter	1
14	4086500	Gasket	1
15	4115721	Exhaust Pipe (Non-Certified)	1
16	4154618	Exhaust Pipe (To Engine)	1
17	4103420	Exhaust Pipe	1
18	4108118	Bracket	1
19	4110365	Gasket	1
20	1530243	Insert	4
21	1460477	Nut	4
22	1527885	Capscrew	4
23	1582222	Locknut	3
24	2089780	Spacer	2
25	4620896	Tail Pipe	1
26	1510113	Capscrew	4
27	4112739	Exhaust Pipe	1
28	292683	Lockwasher	2
29	1469405	Nut	2
30	136692	Nut	3
31	1593336	Nut	3
32	4154668	Support	1
33	1556623	Bolt	1
34	38738	Clamp	1

OVERHEAD EXHAUST (FIGURE 2-4) WITHOUT CATALYTIC CONVERTER — PSI 2.4L LPG AND 2.4L BI-FUEL

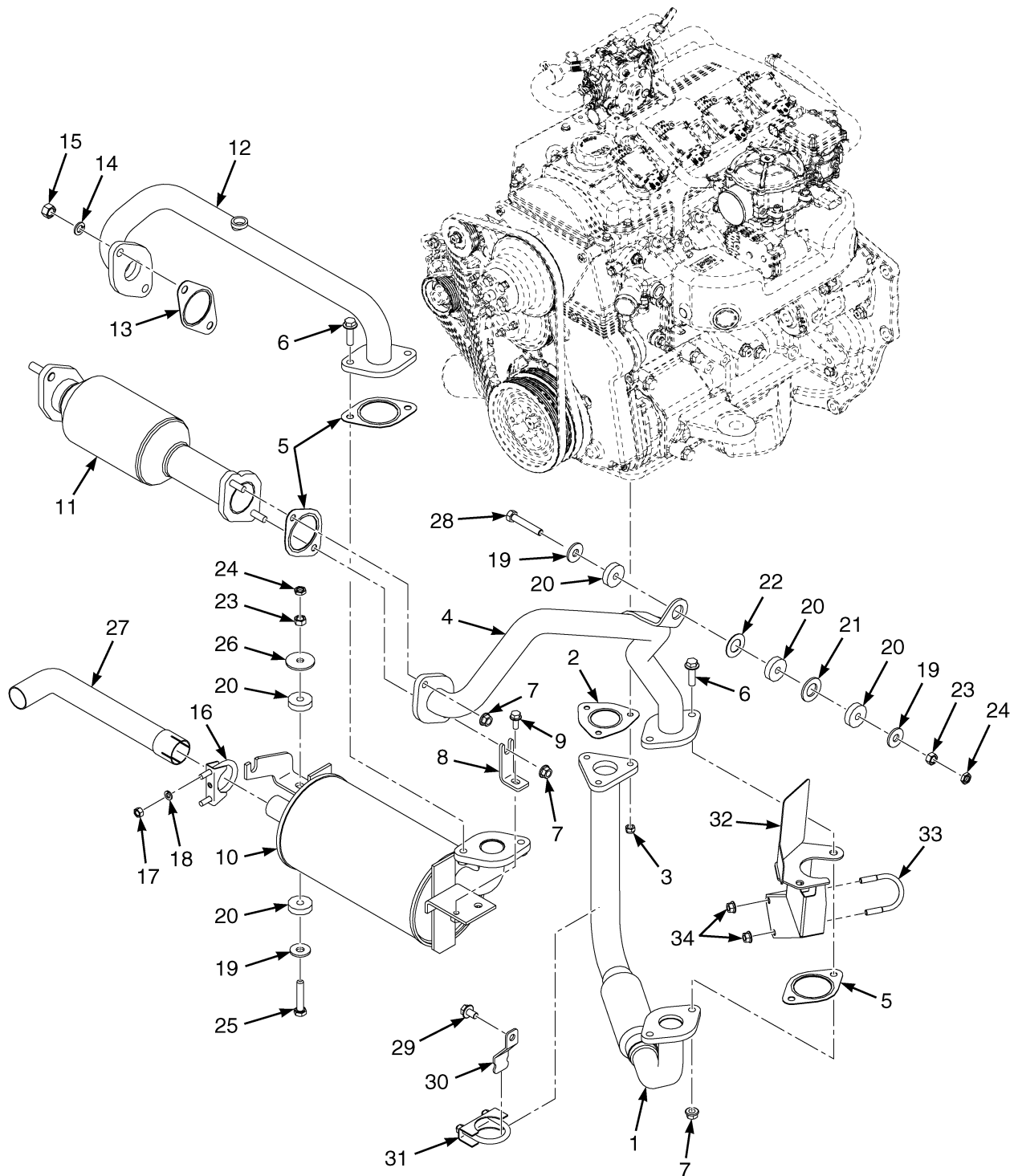


BP110184

OVERHEAD EXHAUST
WITHOUT CATALYTIC CONVERTER – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	1351177	Rubber Cushion	7
2	4113478	Muffler	1
3	1351176	Washer	2
4	292518	Capscrew	2
5	2022973	Washer	4
6	4086499	Gasket	2
7	4108552	Exhaust Pipe	1
8	1527885	Capscrew	4
9	302294	Capscrew	1
10	2023006	Shim (T=3.2)	1
10	2023007	Shim (T=1.2)	1
11	4154618	Exhaust Pipe	1
12	1460477	Nut	2
13	4110365	Gasket	1
14	1582222	Locknut	3
15	2081919	Clamp	1
16	292681	Lockwasher	2
17	2022719	Nut	2
18	4112882	Exhaust Pipe	1
19	1530243	Insert	4
20	136692	Nut	3
21	1593336	Nut	3
22	4154668	Support	1
23	1556623	Bolt	1
24	38738	Clamp	1
25	2089780	Spacer	2
26	4620896	Tail Pipe	1
27	1510113	Capscrew	4

COUNTERWEIGHT EXHAUST (FIGURE 2-5) WITH CATALYTIC CONVERTER — PSI 2.4L LPG AND 2.4L BI-FUEL

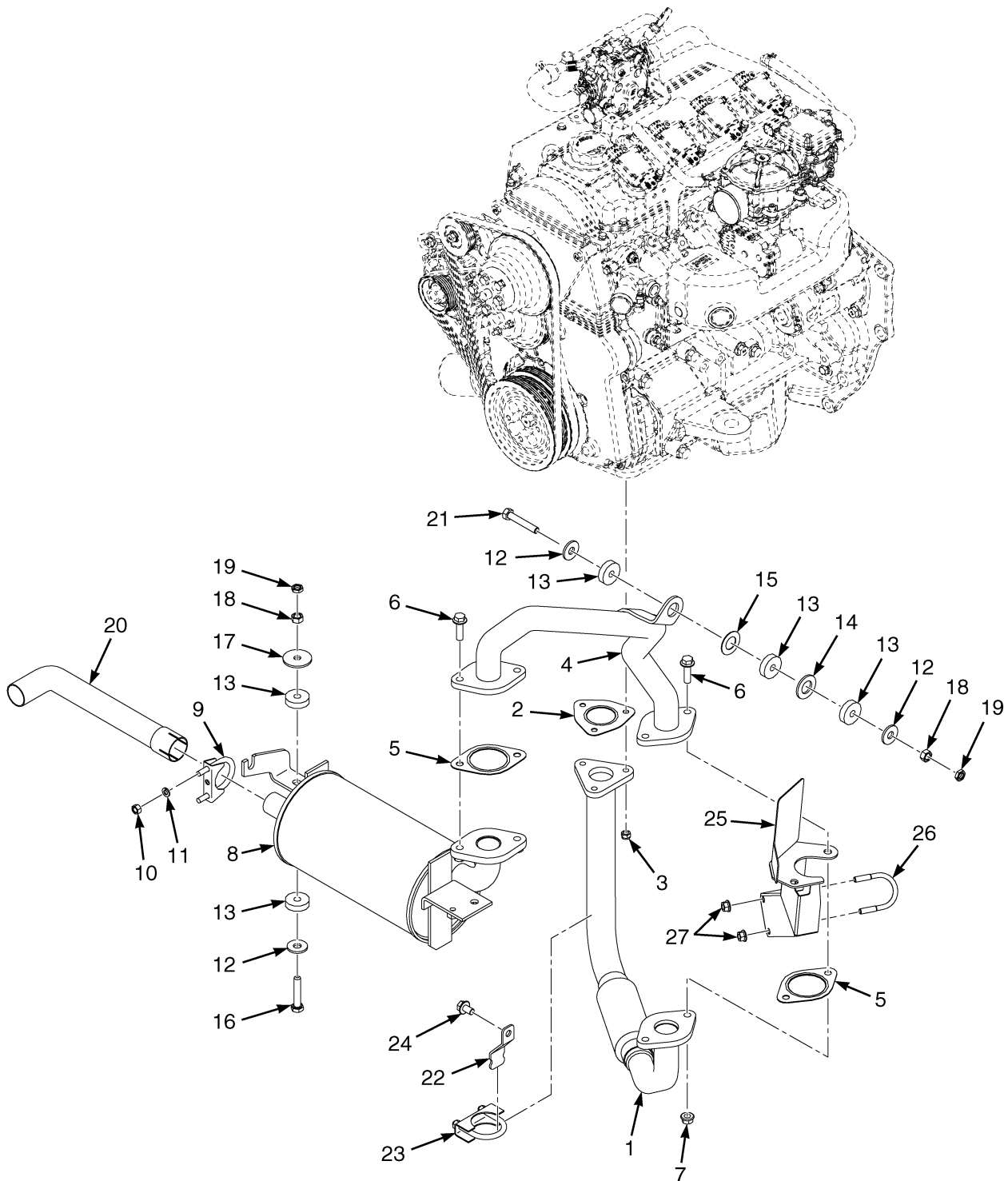


BP110187

COUNTERWEIGHT EXHAUST
WITH CATALYTIC CONVERTER – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	4154618	Exhaust Pipe	1
2	4110365	Gasket	1
3	1582222	Locknut	3
4	4103420	Exhaust Pipe	1
5	4086499	Gasket	3
6	1527885	Capscrew	4
7	1460477	Nut	4
8	4108118	Bracket	1
9	1527880	Capscrew	1
10	4113478	Muffler	1
11	4060812	Catalytic Converter	1
12	4115720	Exhaust Pipe	1
13	4086500	Gasket	1
14	292683	Lockwasher	2
15	1469405	Nut	2
16	2081919	Clamp	1
17	2022719	Nut	2
18	292681	Lockwasher	2
19	2022973	Washer	4
20	1351177	Rubber Cushion	7
21	2023006	Shim (T=3.2)	1
22	2023007	Shim (T=1.2)	1
23	136692	Nut	3
24	1593336	Nut	3
25	292518	Capscrew	2
26	1351176	Washer	2
27	4118726	Exhaust Pipe	1
28	302294	Capscrew	1
29	1556623	Bolt	1
30	4154668	Support	1
31	38738	Clamp	1
32	4158347	Exhaust Shield	1
33	4158329	Bolt , U-bolt	1
34	191941	Nut	2

COUNTERWEIGHT EXHAUST (FIGURE 2-6) WITHOUT CATALYTIC CONVERTER — PSI 2.4L LPG AND 2.4L BI-FUEL

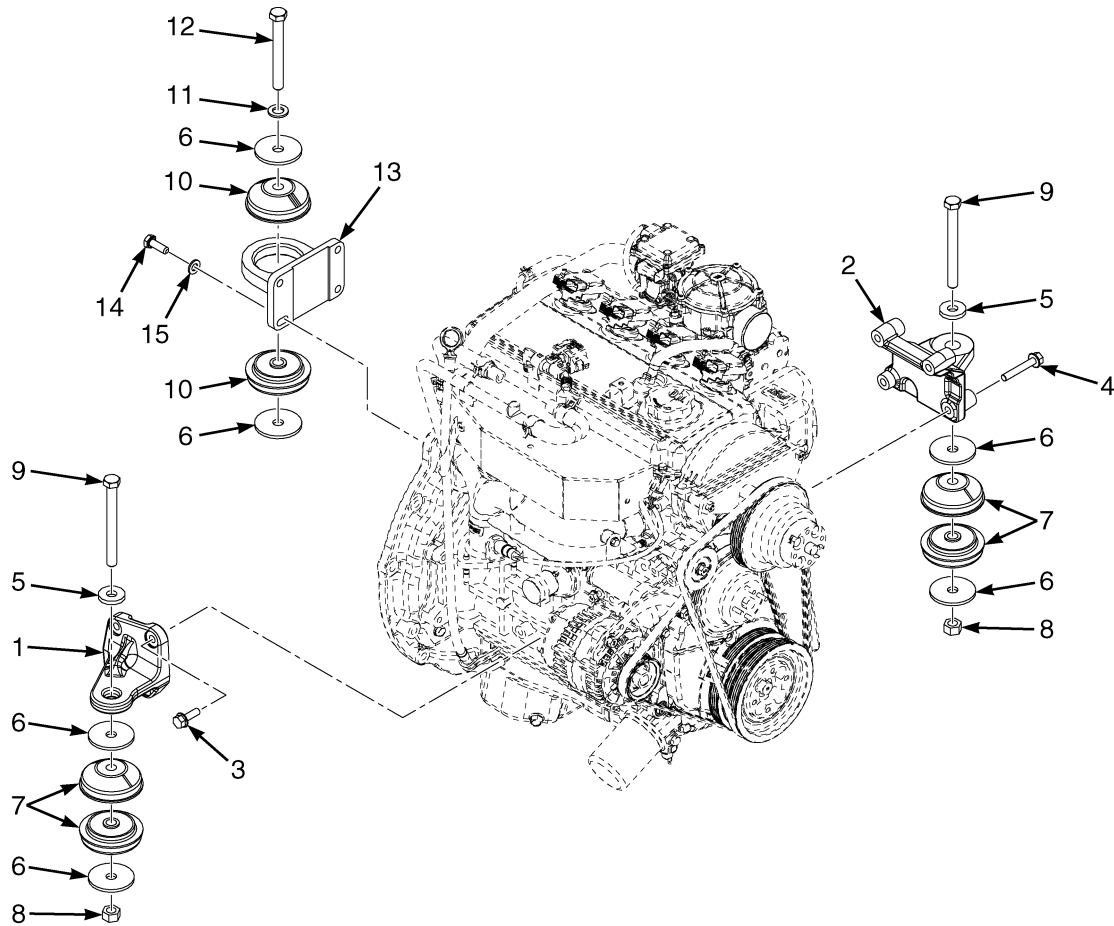


BP110186

COUNTERWEIGHT EXHAUST
WITHOUT CATALYTIC CONVERTER – PSI 2.4L LPG AND 2.4L BI-FUEL

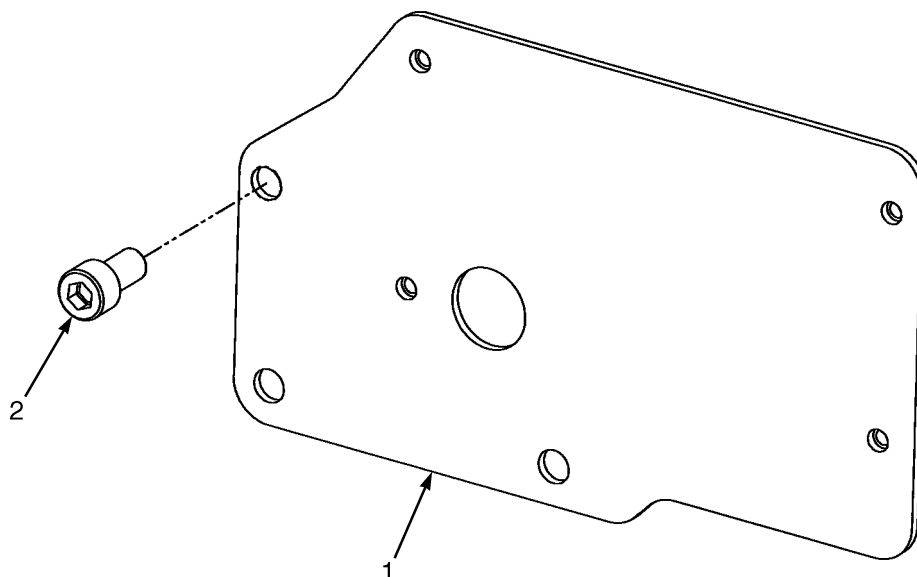
ITEM	PART NO.	DESCRIPTION	QTY
1	4154618	Exhaust Pipe	1
2	4110365	Gasket	1
3	1582222	Locknut	3
4	4108552	Exhaust Pipe	1
5	4086499	Gasket	2
6	1527885	Capscrew	4
7	1460477	Nut	2
8	4113478	Muffler	1
9	2081919	Clamp	1
10	2022719	Nut	2
11	292681	Lockwasher	2
12	2022973	Washer	4
13	1351177	Rubber Cushion	7
14	2023006	Shim (T=3.2)	1
15	2023007	Shim (T=1.2)	1
16	292518	Capscrew	2
17	1351176	Washer	2
18	136692	Nut	3
19	1593336	Nut	3
20	4118726	Exhaust Pipe	1
21	302294	Capscrew	1
22	4154668	Support	1
23	38738	Clamp	1
24	1556623	Bolt	1
25	4158347	Exhaust Shield	1
26	4158329	Bolt , U-bolt	1
27	191941	Nut	2

ENGINE MOUNTING (FIGURE 2-7) PSI ENGINE



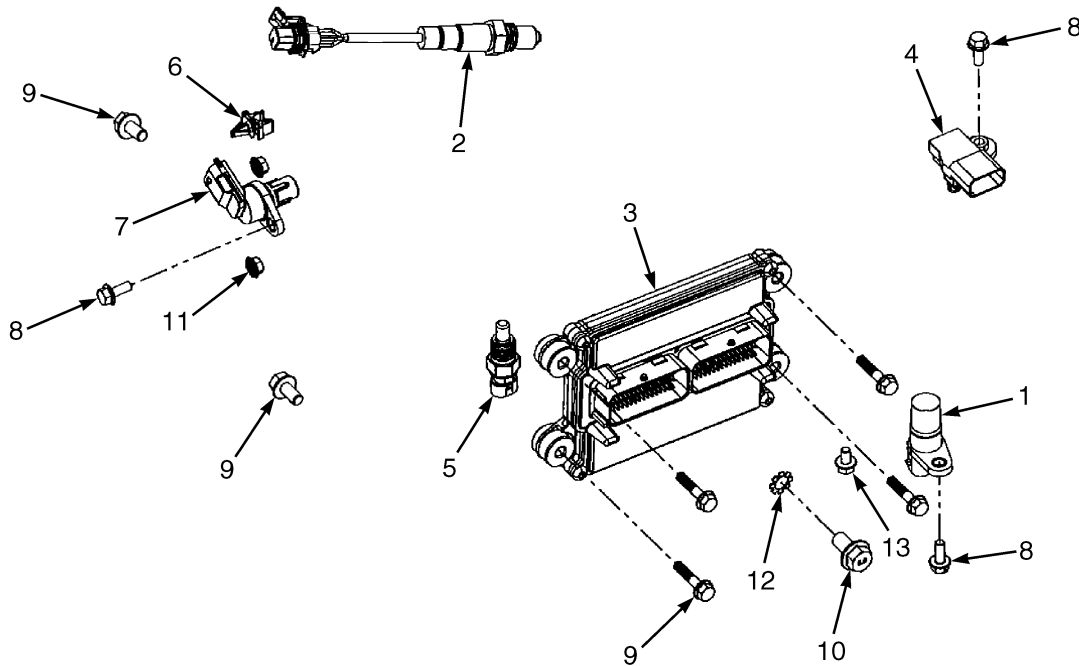
BP090976

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4108190	Mount (LH)	1
2	4108191	Mount (RH)	1
3	4109994	Bolt , M10 x 1.50 x 30	4
4	4111647	Bolt , M10 x 1.50 x 70	4
5	2081588	Washer	2
6	2081587	Washer	6
7	4132931	Isolator	4
8	2081589	Nut	2
9	293680	Capscrew	2
10	4132930	Isolator	2
11	296424	Washer	1
12	293678	Capscrew	1
13	2105228	Bracket (Mounts to Transmission)	1
14	136985	Capscrew	4
15	296420	Washer	4

ENGINE CONTROL MODULE MOUNTING (FIGURE 2-8)
PSI 2.4L

BP090982

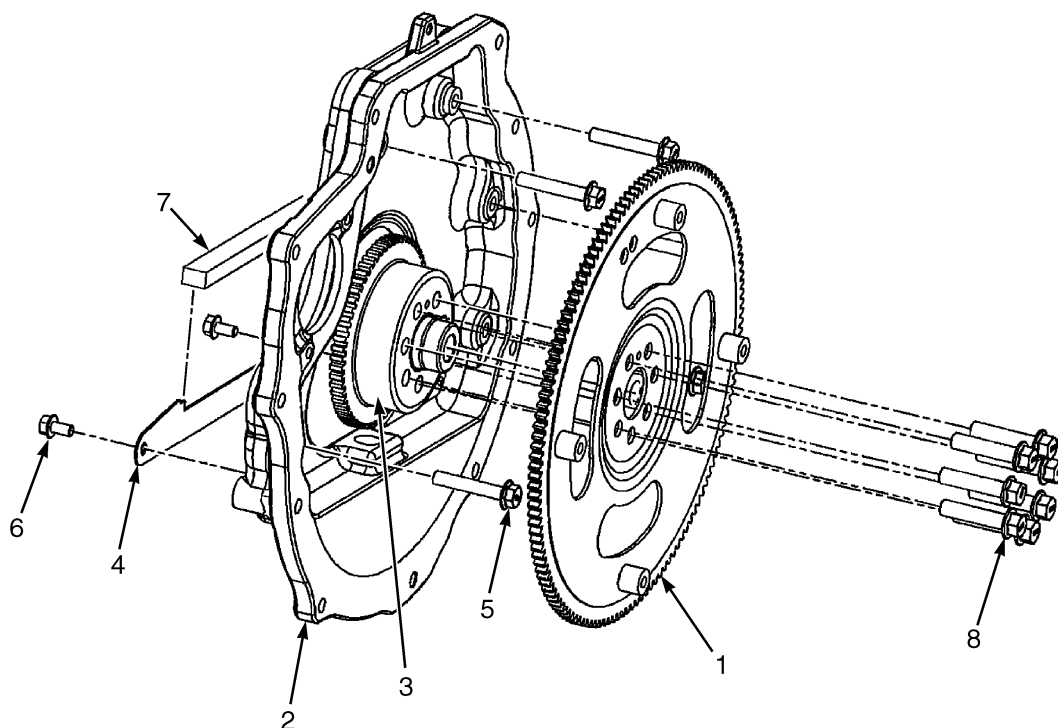
ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4140931	Plate	1
2	4140934	Bolt	1

ELECTRICAL SENSORS (FIGURE 2-9)
PSI 2.4L LPG AND 2.4L BI-FUEL

BP090989

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153355	Sensor (Speed)	1
2	1646456	Sensor (Oxygen)	1
3	4641323	Engine Control Module (Non-Certified)	1
3	4641325	Engine Control Module (Dual Fuel Non Certified)	1
4	4019045		
	1559567	Sensor (Temperature manifold absolute pressure)	1
4	4042986	Seal	1
5	4019046		
	1314381	Temperature Sender (Coolant)	1
6	4116714	Clamp	1
7	4110041	Sensor (Phases)	1
8	1527979	Hose Clamp	2
9	1527876	Capscrew	3
10	4111127	Bolt	4
11	1307884		
	1514429	Nut	2
12	4110044	Bolt	1
13	4104445	Washer	1
14	4145797	Screw	1
	a 4644871	Wire Harness (Engine) (☞ Figure 5-19).....	1
	a 4644872	Wire Harness (Engine Dual Fuel) (☞ Figure 5-19).....	1

FOOTNOTES:**a** Not Illustrated

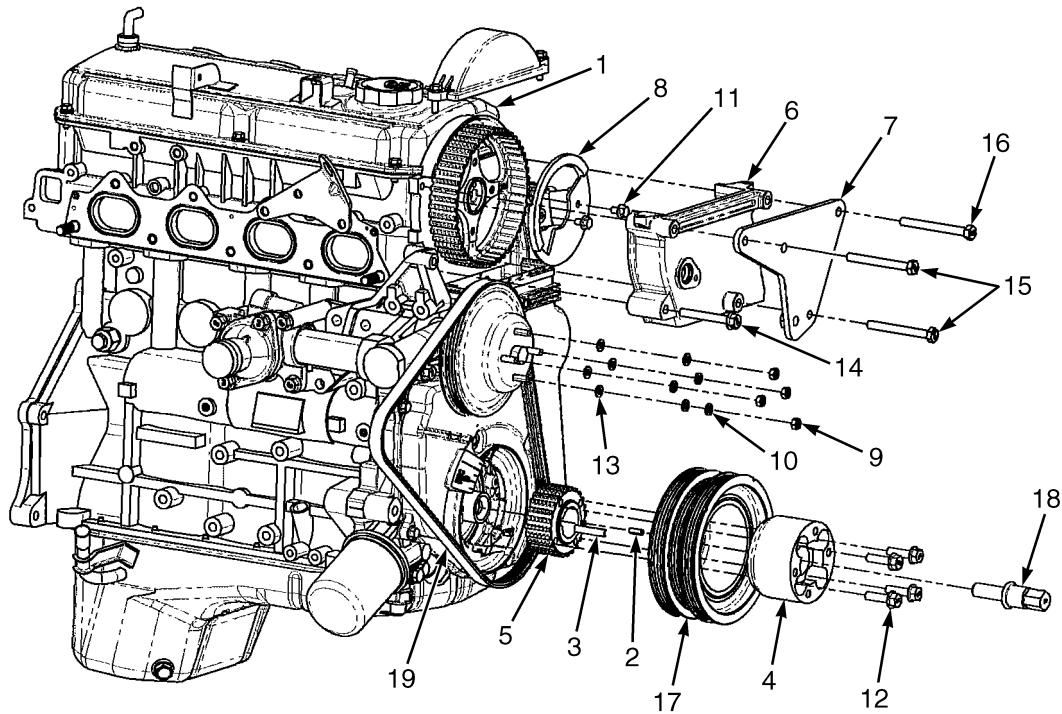
TRANSMISSION FLEX PLATE (FIGURE 2-10)
PSI 2.4L

BP090981

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153348	Flywheel	1
2	4153349	Adapter	1
3	4153350	Adapter	1
4	4153351	Cover	1
5	4111647	Bolt , M10 x 1.50 x 70	5
6	4153352	Screw	2
7	4153353	Foam Rubber	1
8	4153354	Screw	7

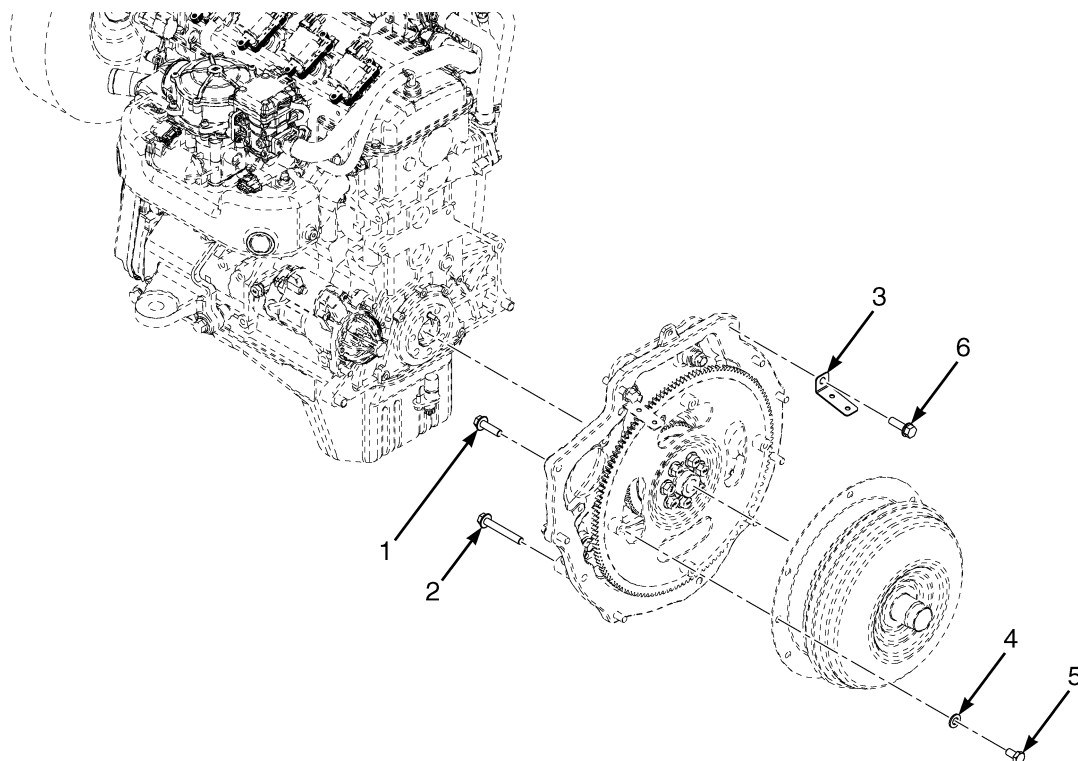
ENGINE AND ATTACHING PARTS (FIGURE 2-11)

PSI 2.4L LPG AND 2.4L BI-FUEL



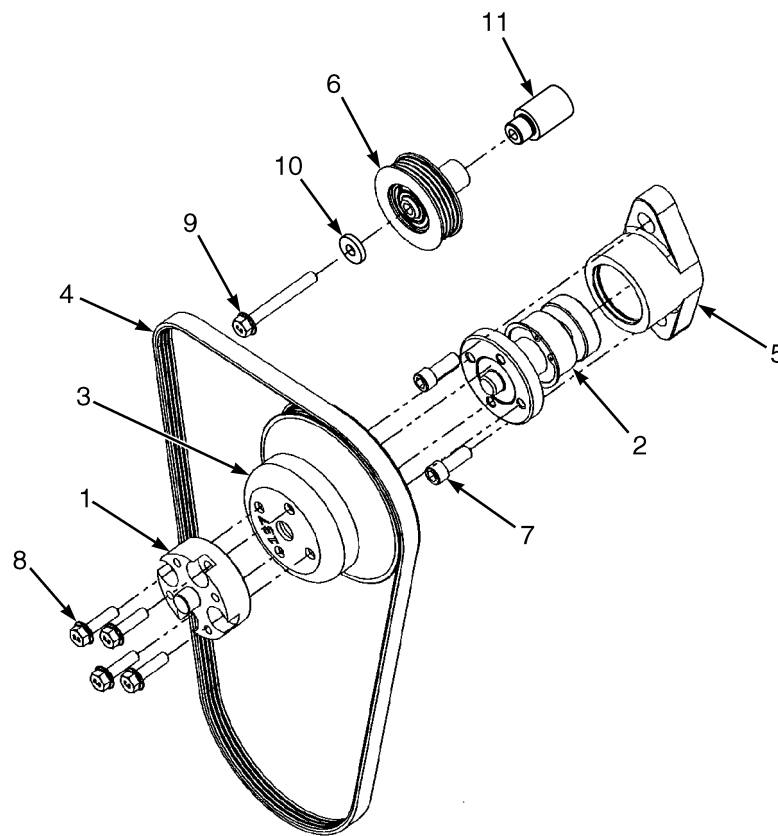
BP090973

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4159870	Long Block	1
2	4137319	Pin	1
3	4116728	Shim	1
4	4123335	Adapter (Crank to PTO)	1
5	4135837	Sprocket (Crankshaft)	1
6	4137320	Cover (Timing Gear)	1
7	4135838	Bracket (Hi-Fan)	1
8	4110042	Sensor (Cam Wheel)	1
9	4137325	Nut	4
10	4110066	Washer	4
11	4019051	Bolt	2
12	4104446	Bolt	4
13	4137324	Washer	4
14	4137323	Capscrew	1
15	4137321	Capscrew	2
16	4137322	Capscrew	1
17	4111757	Pulley (Damper)	1
18	4111759	Bolt	1
19	4116722	Belt (Alternator)	1

FLYWHEEL MOUNTING HARDWARE (FIGURE 2-12)
PSI 2.4L LPG AND 2.4L BI-FUEL

BP091023

ITEM	PART NO.	DESCRIPTION	QTY
1	1527885	Capscrew	6
2	4115547	Capscrew	2
3	2081402	Bracket , Cable Clip	2
4	296420	Washer	4
5	292514	Capscrew	4
6	1586629	Capscrew	2

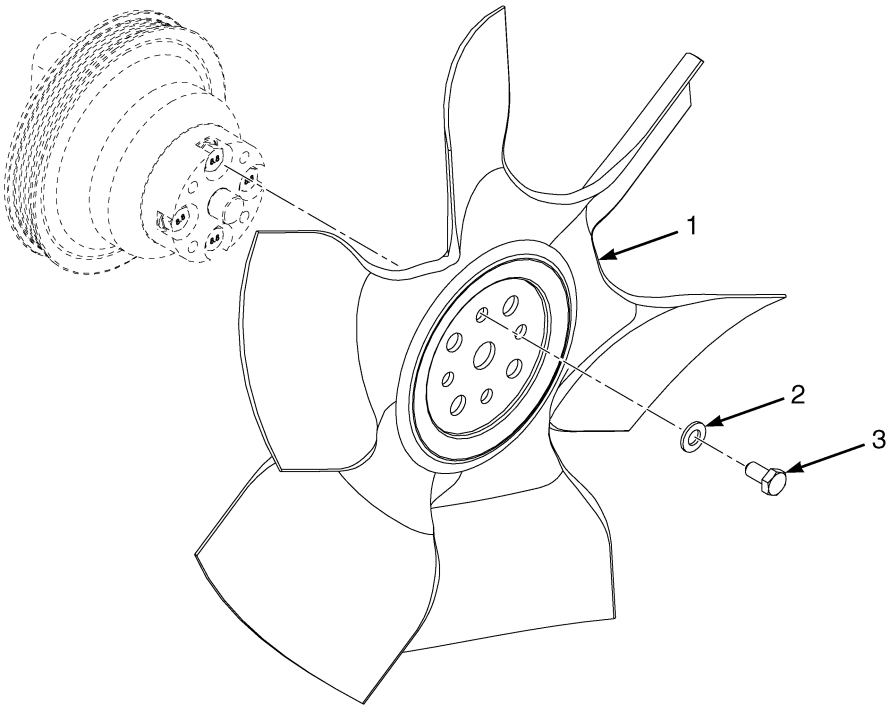
HI-FAN ASSEMBLY (FIGURE 2-13)
PSI 2.4L LPG AND 2.4L BI-FUEL

BP090974

HI-FAN ASSEMBLY
PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4104456	Spacer	1
2	4104450		
	4137309	Shaft (Fan Assembly)	1
3	4135839	Pulley (Fan)	1
4	4153347	Belt (Hi-Fan)	1
5	4140926	Hub (Hi-Fan)	1
6	4162011	Idler Pulley	1
7	4137310	Capscrew	2
8	4104446	Bolt	4
9	4137311	Capscrew	1
10	4162012	Washer	1
11	4162013	Shaft	1

FAN ASSEMBLY (FIGURE 2-14)



BP060169

ITEM	PART NO.	DESCRIPTION	QTY
1	4620536	Fan (Pusher)	1
2	296418	Washer	4
3	293612	Capscrew	4
	a 2043160	Thermal Sensor	1

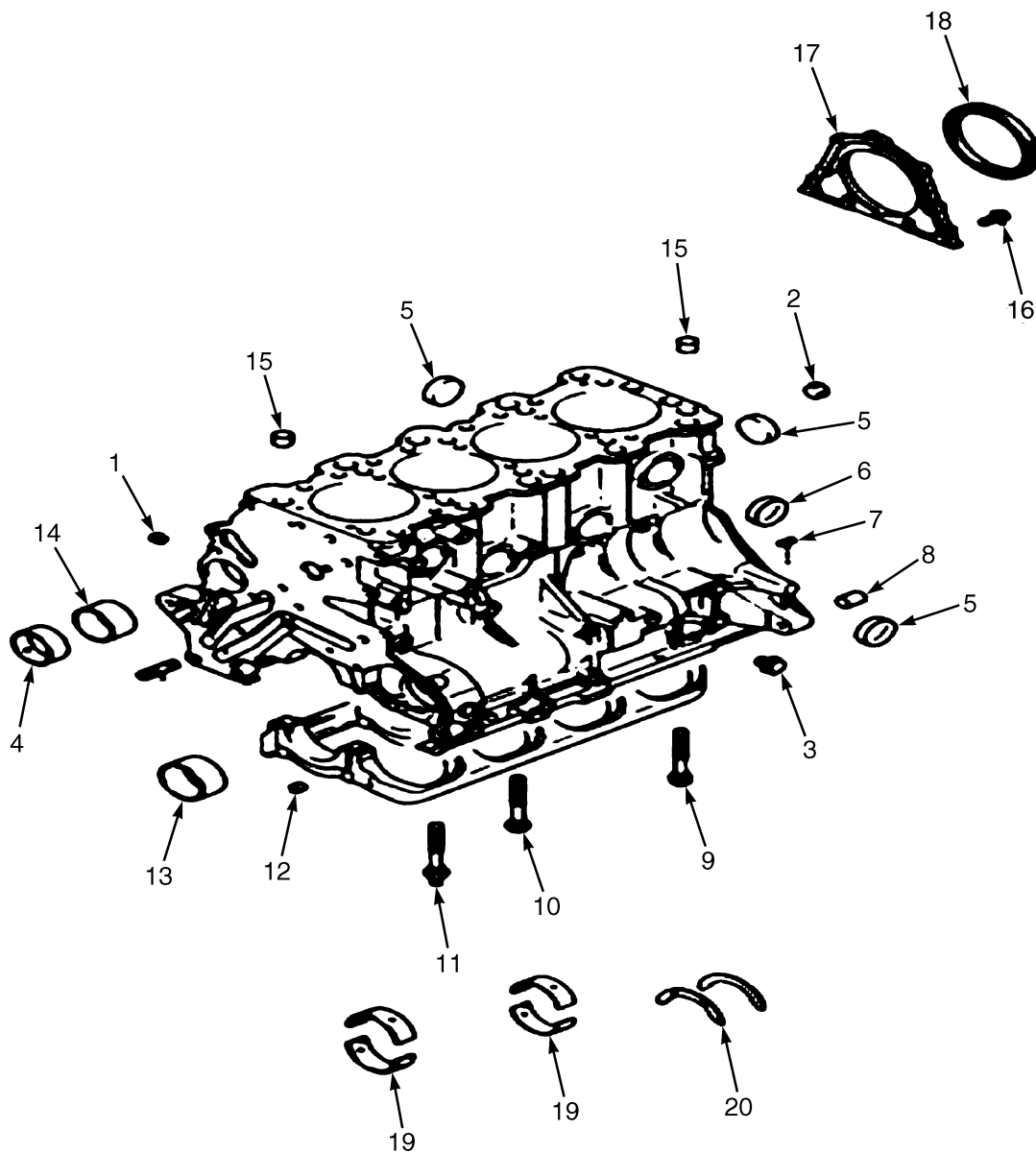
FOOTNOTES:

a not illustrated

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-15) PSI 2.4L

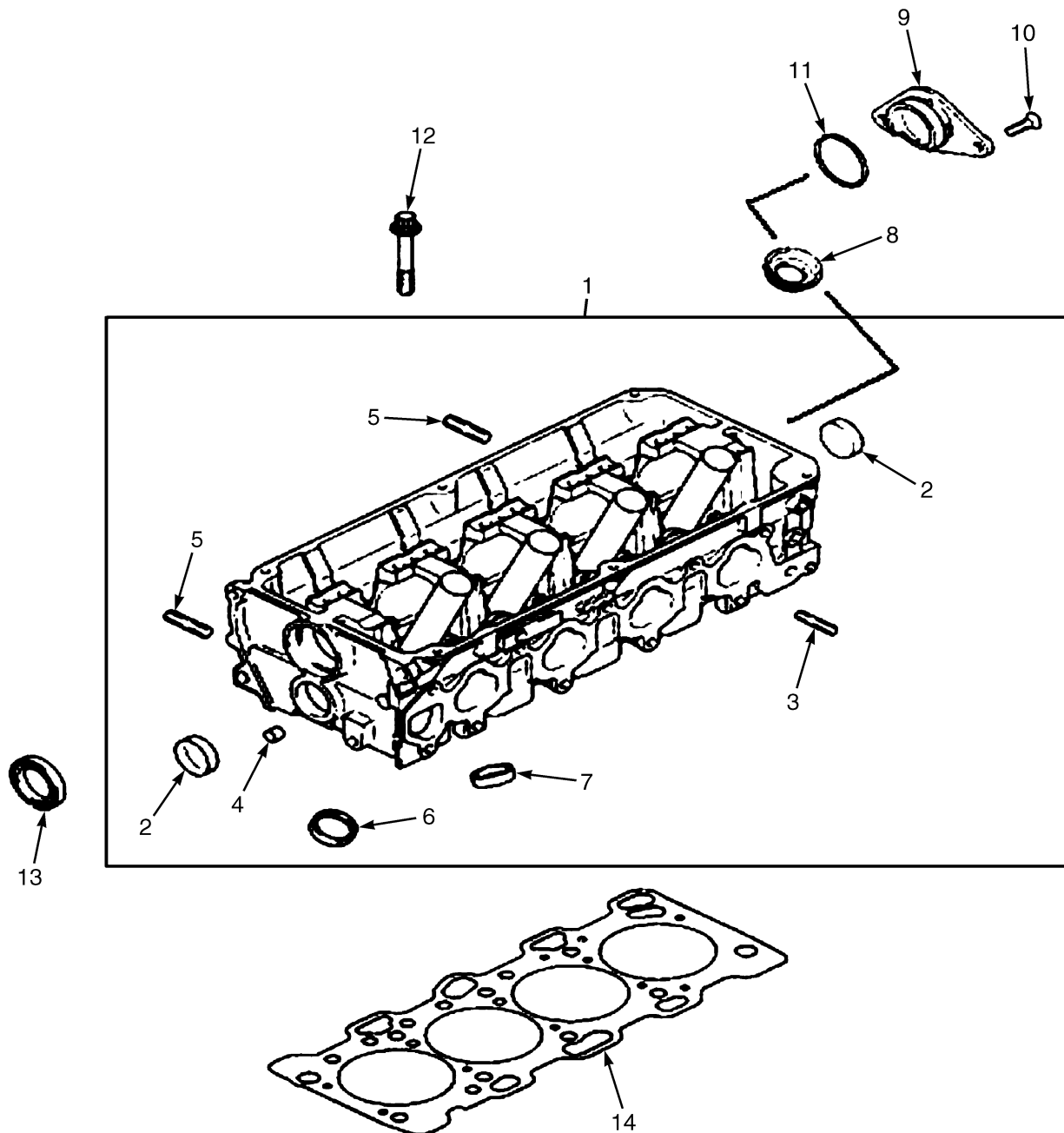


BP090979

CYLINDER BLOCK
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111691	Plug	2
2	4111692	Plug	1
3	4111693	Plug	1
4	4111734	Bearing (Balancer)	1
4	4111735	Bearing (Balancer) (Oversize)	1
5	4111695	Cap	7
6	4111696	Cap	2
7	4111697	Dowel	2
8	4111698	Bushing	2
9	4111699	Bolt	2
10	4111700	Bolt	7
11	4111701	Bolt	1
12	4111681	Bushing	2
13	4111702	Bearing	1
13	4111703	Bearing (Oversize 1.0 mm)	1
14	4111704	Bearing	1
14	4111705	Bearing (Oversize 1.0 mm)	1
15	4111706	Bushing	2
16	4111713	Bolt	5
17	4111714	Cover	1
18	4111715	Oil Seal	1
19	4111716	Crankshaft Bearing (1,2,4,5 (Green)	4
19	4111717	Crankshaft Bearing (1,2,4,5 (Yellow)	4
19	4111718	Crankshaft Bearing (1,2,4,5 (Standard)	4
19	4111719	Crankshaft Bearing (1,2,4,5 (Lan Standard)	4
19	4111727	Crankshaft Bearing (1,2,4,5 (Red)	4
20	4111733	Thrust Bearing	1
	4111694	Plug	1

CYLINDER HEAD (FIGURE 2-16) PSI 2.4L

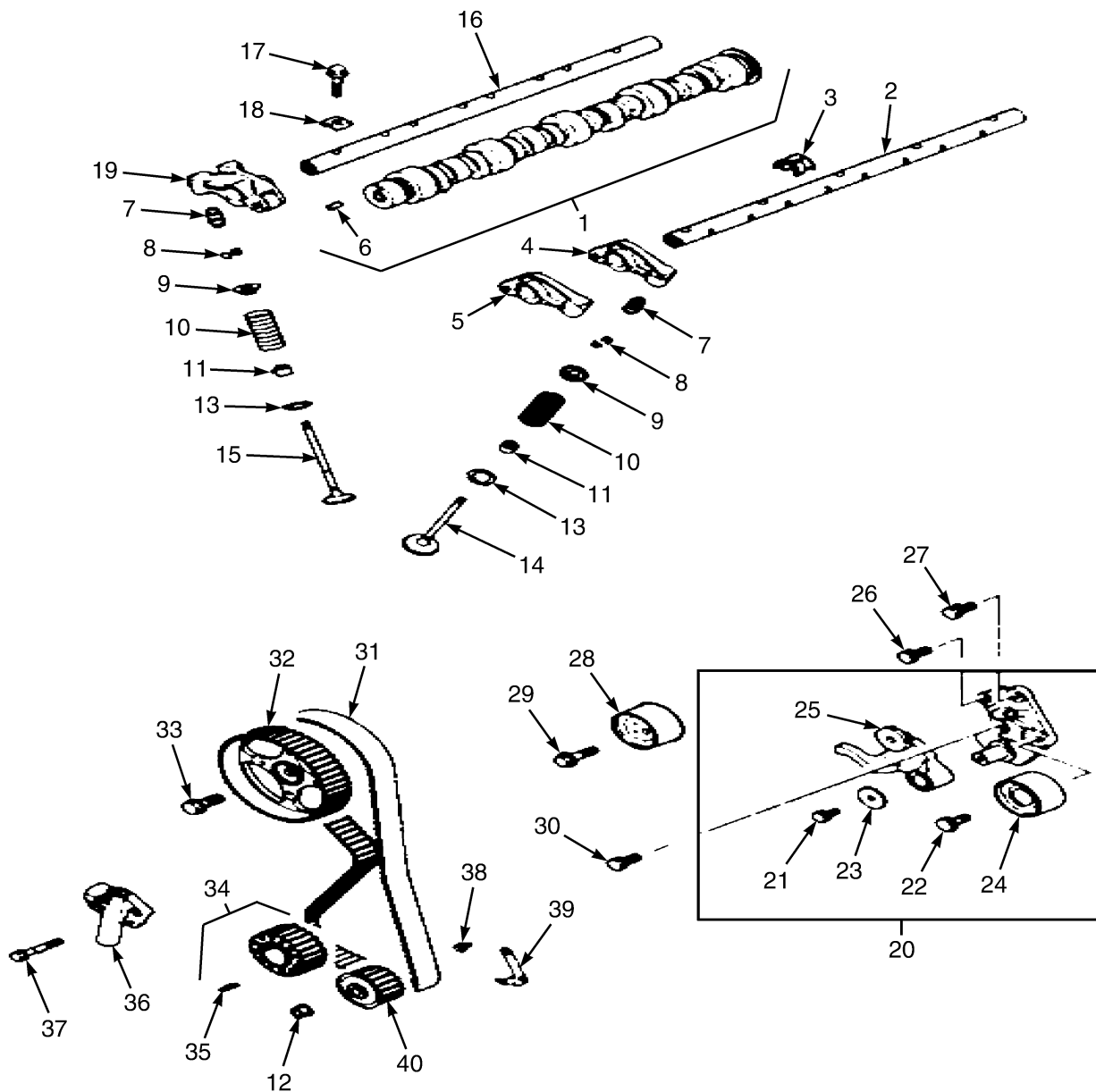


BP090975

CYLINDER HEAD
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111675	Cylinder Head	1
2	4111678	Cap	2
3	4111679	Stud	4
4	4111681	Bushing	2
5	4111682	Stud	3
6		Exhaust Seat	1
7		Intake Seat	1
8	4111683	Oil Seal	4
9	4111684	Thrust Plate	1
10	4111685	Screw	2
11	4111686	O-Ring	1
12	4111687	Bolt	10
13	4111680	Oil Seal	1
14	4111676	Gasket	1

CAMSHAFT AND VALVES (FIGURE 2-17) PSI 2.4L

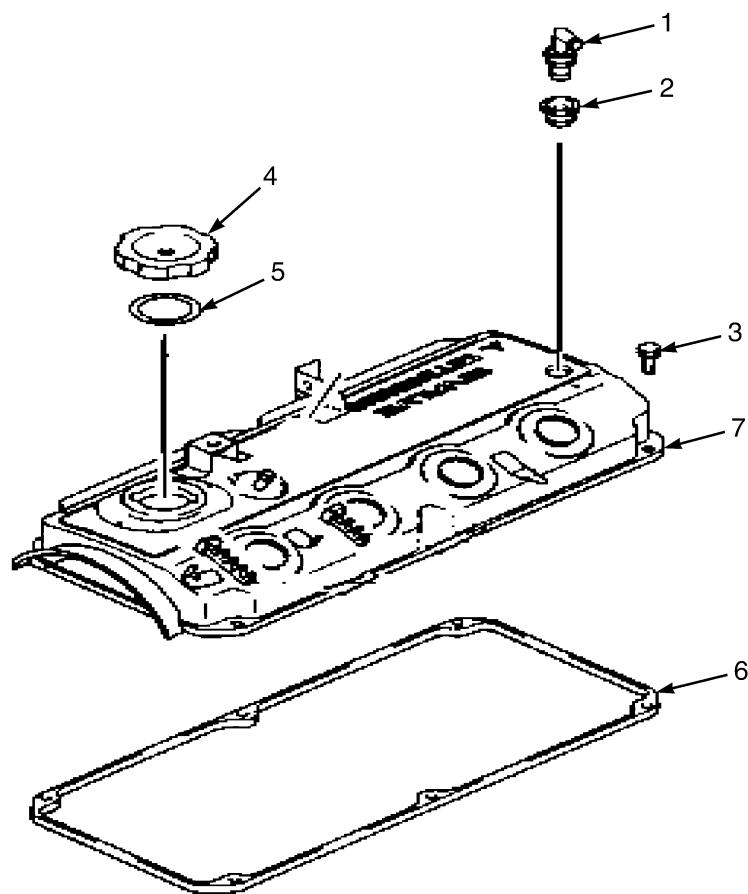


BP090737

CAMSHAFT AND VALVES
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4116724	Camshaft	1
2	a 4111775	Rocker Shaft	1
3	a 4111776	Spring (Rocker Shaft)	4
4	a 4112104	Rocker Arm ("B")	4
5	a 4112105	Rocker Arm ("A")	4
6	4112106	Pin	1
7	a 4112107	Adjuster	16
8	a 4112108	Lock (Valve Spring)	32
9	a 4112109	Retainer (Valve Spring)	16
10	a 4112110	Spring (Valve)	16
11	a 4112111	Seal	16
12	4112324	Nut	1
13	a 4112112	Valve Seat	16
14	a 4112113	Valve (Inlet)	8
15	a 4112114	Valve (Exhaust)	8
16	a 4112115	Rocker Shaft	1
17	a 4112116	Bolt	13
18	a 4112117	Cap	13
19	a 4112118	Rocker Arm	4
20	4112119	Bracket Assembly (Tensioner Pulley)	1
21	4112120	Bolt	1
22	4112121	Bolt	1
23	4112122	Washer	1
24	4112123	Idler Pulley	1
25		Tensioner Arm Assembly	1
26	4112124	Bolt	1
27	4112125	Bolt	1
28	4112126	Pulley	1
29	4112127	Bolt	1
30	4112121	Bolt	1
31	4112128	Timing Belt -Cam	1
32	4112130	Sprocket	1
33	4112131	Bolt	1
34	4112132	Sprocket	1
35	4112133	Pin	1
36	4112320	Tensioner	1
37	4112321	Bolt	2
38	4111276	Bolt	2
39	4112322	Bracket (Indicator)	1
40	4112323	Sprocket (Oil Pump)	1
	4116503	Kit-Service 5000 hours (Includes Items 24, 28, 31, 36)	1

FOOTNOTES:**a** Included with Cylinder Head 4111675

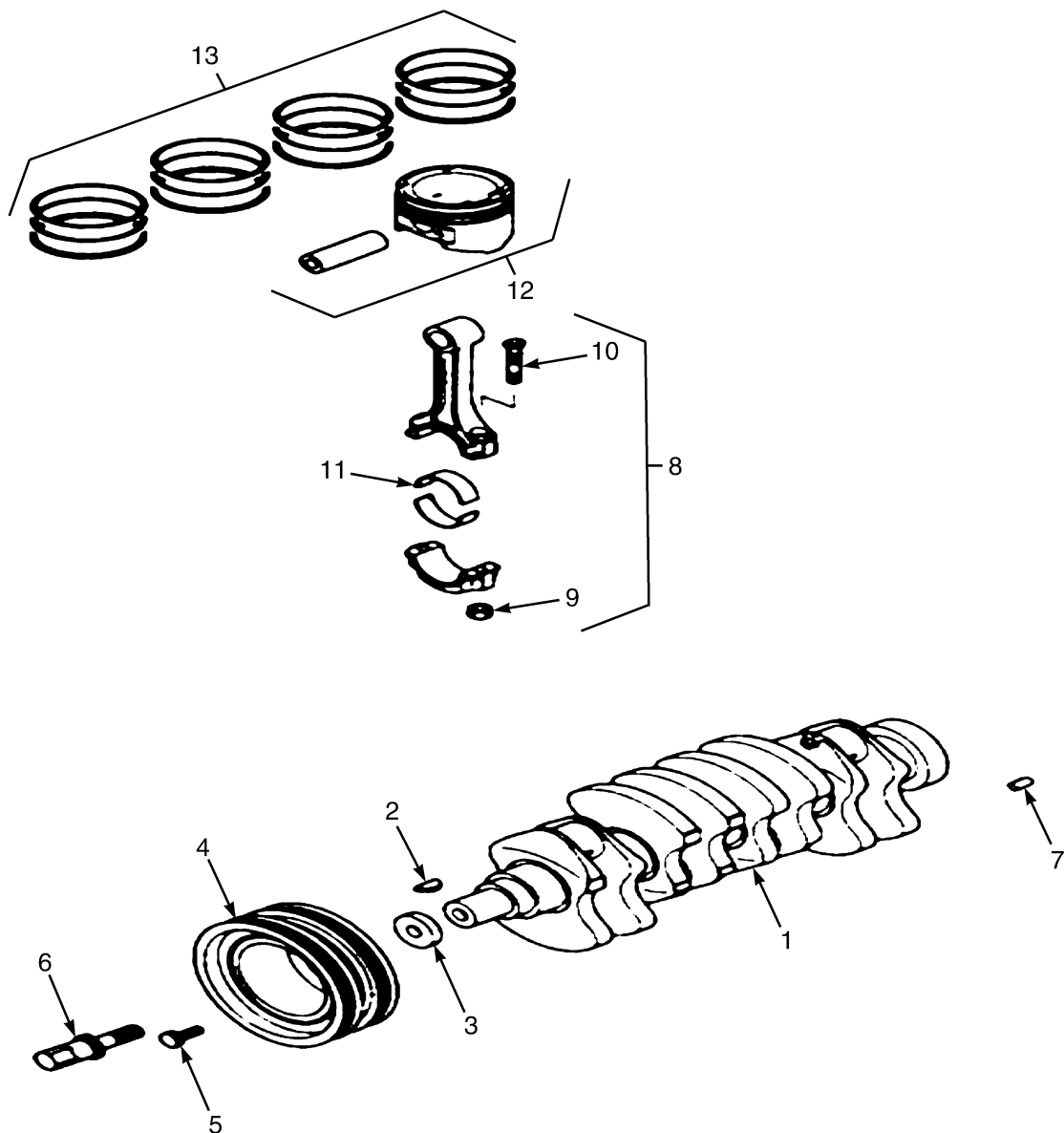
ROCKER COVER (FIGURE 2-18)
PSI 2.4L

BP090732

ROCKER COVER
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111670	Pcv Valve	1
2	4153345	Grommet	1
3	4111671	Bolt	6
4	4111672	Cap (Oil Fill)	1
5		Gasket	1
6	4111673	Gasket (Rocker Cover)	1
7	4111674	Engine Cover (Valve)	1

PISTON AND CRANKSHAFT (FIGURE 2-19) PSI 2.4L

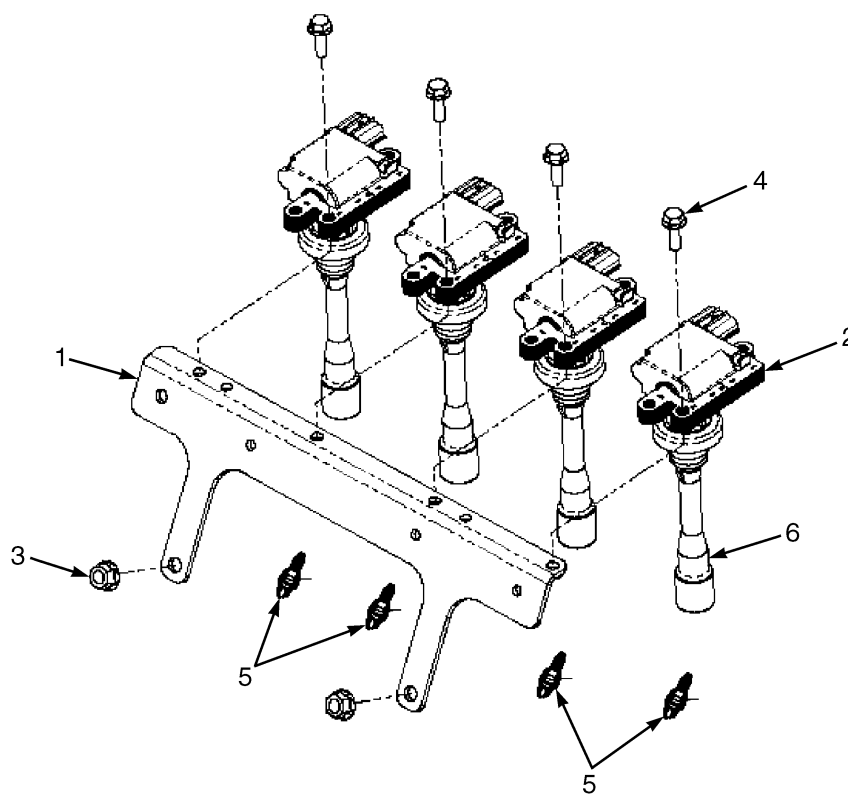


BP090736

PISTON AND CRANKSHAFT
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111753	Crankshaft	1
2	4111755	Key	1
3	4111756	Washer	1
4	4111757	Pulley (Damper)	1
5	4111758	Bolt	4
6	4111759	Bolt	1
7	4111760	Pin	1
8	4111761	Piston Rod	4
9	4111762	Nut	8
10	4111766	Bolt	8
11	4111763	Piston Rod Bearing (Yellow)	4
11	4111764	Piston Rod Bearing (Standard)	4
11	4111765	Piston Rod Bearing (Lan Standard)	4
12	4111767	Piston ("A")	4
12	4111768	Piston ("B")	4
12	4111769	Piston ("C")	4
13	4111773	Kit-Piston Ring	1

IGNITION COIL (FIGURE 2-20) PSI 2.4L

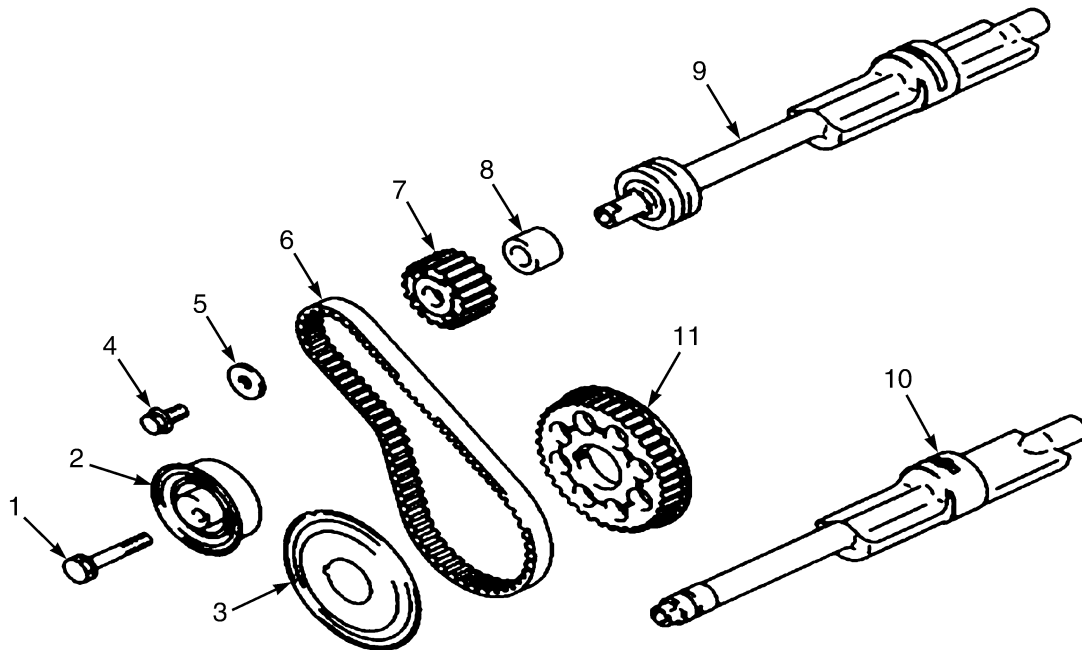


BP090707

IGNITION COIL
PSI 2.4L

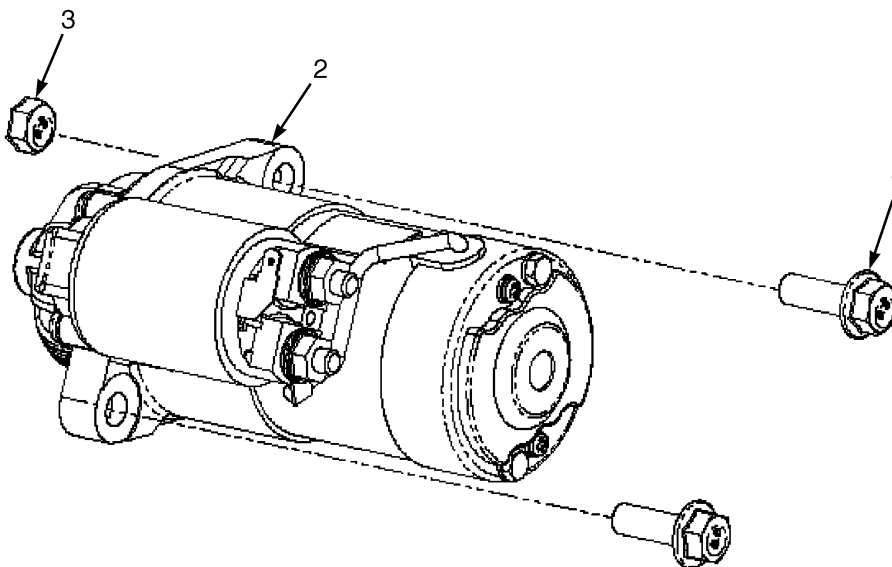
ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4110027	Bracket	1
2	4110028	Ignition Coil	4
3	4111260	Nut	2
4	4110029	Bolt	4
5	4110030	Spark Plug	4
6	4110031	Boot	4

BALANCER (FIGURE 2-21) PSI 2.4L



BP090738

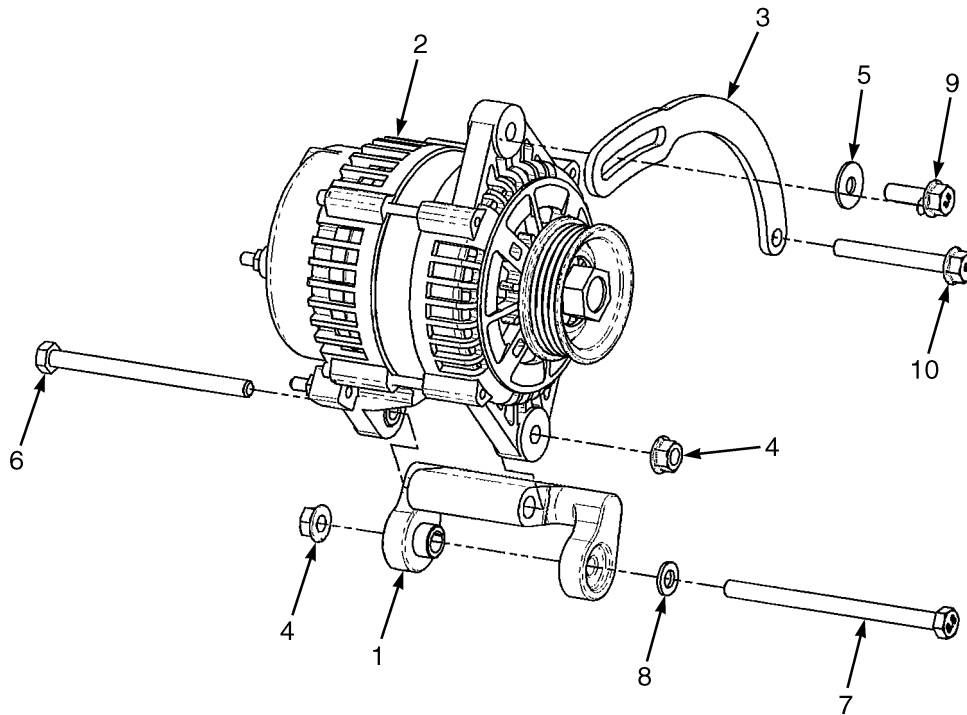
ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4112325	Bolt	1
2	4112327	Tensioner (Timing Belt)	1
3	4112328	Flange	1
4	4112329	Bolt	1
5	4112330	Washer	1
6	4112331	Timing Belt -Balancer	1
7	4112332	Sprocket	1
8	4112333	Spacer	1
9	4112334	Shaft	1
10	4112336	Shaft	1
11	4112338	Sprocket	1
	4116503	Kit-Service 5000 hours (Includes Items 1-2, 6)	1

STARTER (FIGURE 2-22)
PSI 2.4L

BP090708

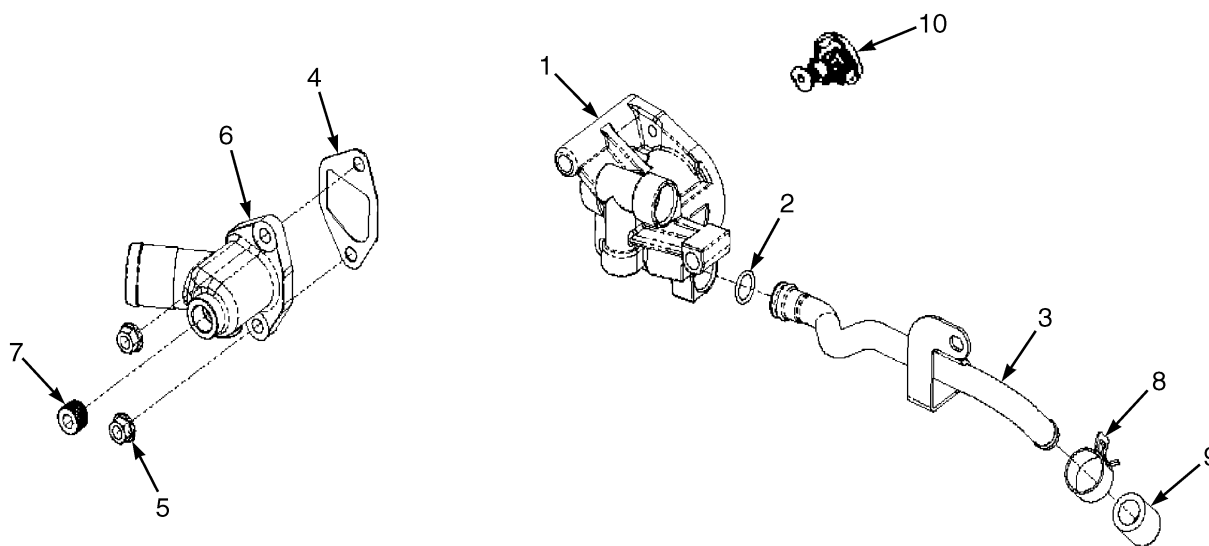
ITEM	PART NO.	DESCRIPTION	QTY
1	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
	4110034		
2	4137303	Capscrew	2
3	4110035	Starter	1
	1382472		
	1502543	Nut	2

ALTERNATOR (FIGURE 2-23) PSI 2.4L



BP090988

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153412	Bracket (Alternator)	1
2	4145981	Alternator (50 Amp)	1
3	4153413	Strap	1
4	1382472	Nut	2
	1502543	Nut	2
5	18515	Washer	1
6	4111042	Bolt	1
7	4137318	Capscrew	1
8	320157	Washer	1
9	4111235	Bolt	1
10	4137311	Capscrew	1

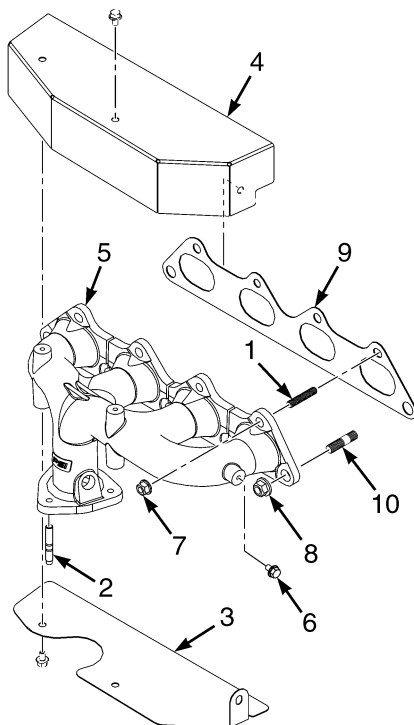
CAB HEATER COOLANT (FIGURE 2-24)
PSI 2.4L

BP090724

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111253	Thermostat Housing	1
2	4111252	O-Ring	1
	4168639	Tube	1
3	4111255	Gasket	1
4	4111232	Nut	2
5	1502543	Water Outlet	1
6	4111256	Plug	1
7	4111211	Clamp	1
8	4019092	Cap	1
9	4050572	Thermostat	1
10	4173763		
	4111238		

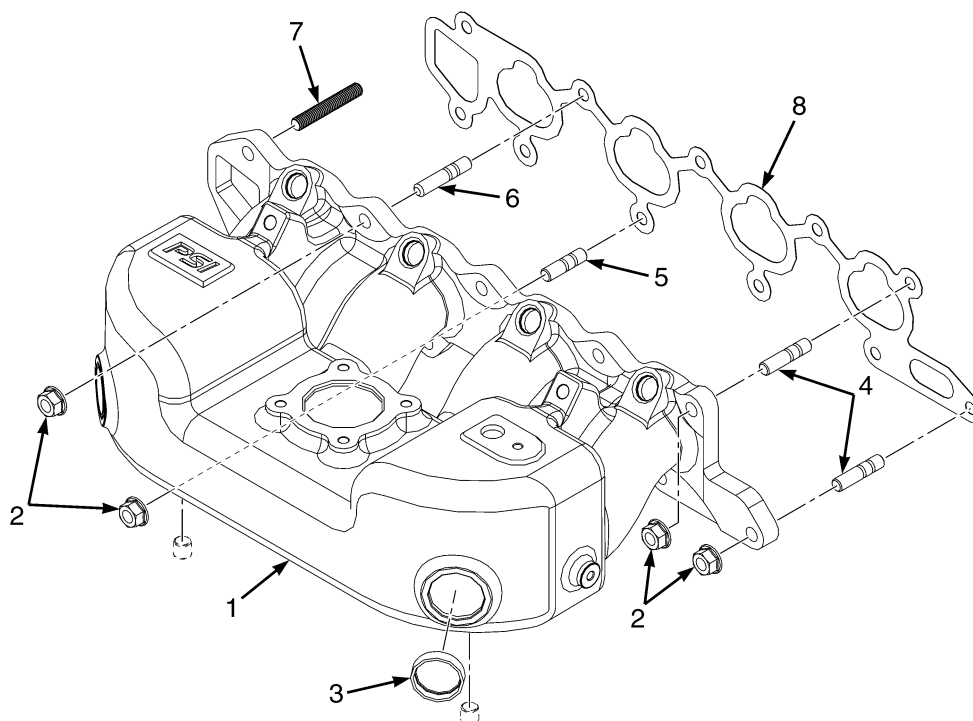
EXHAUST MANIFOLD (FIGURE 2-25)

PSI 2.4L



BP091032

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4137304	Stud	7
2	4111228	Stud	3
3	4111270	Heat Shield	1
4	4111271	Heat Shield	1
5	4111272	Exhaust Manifold	1
6	4019051	Bolt	5
7	4111273	Nut	7
8	4111274	Nut	2
9	4111275	Gasket	1
10	4111679	Stud	2
	4112701	Kit-Gasket (Includes Items 9)	1

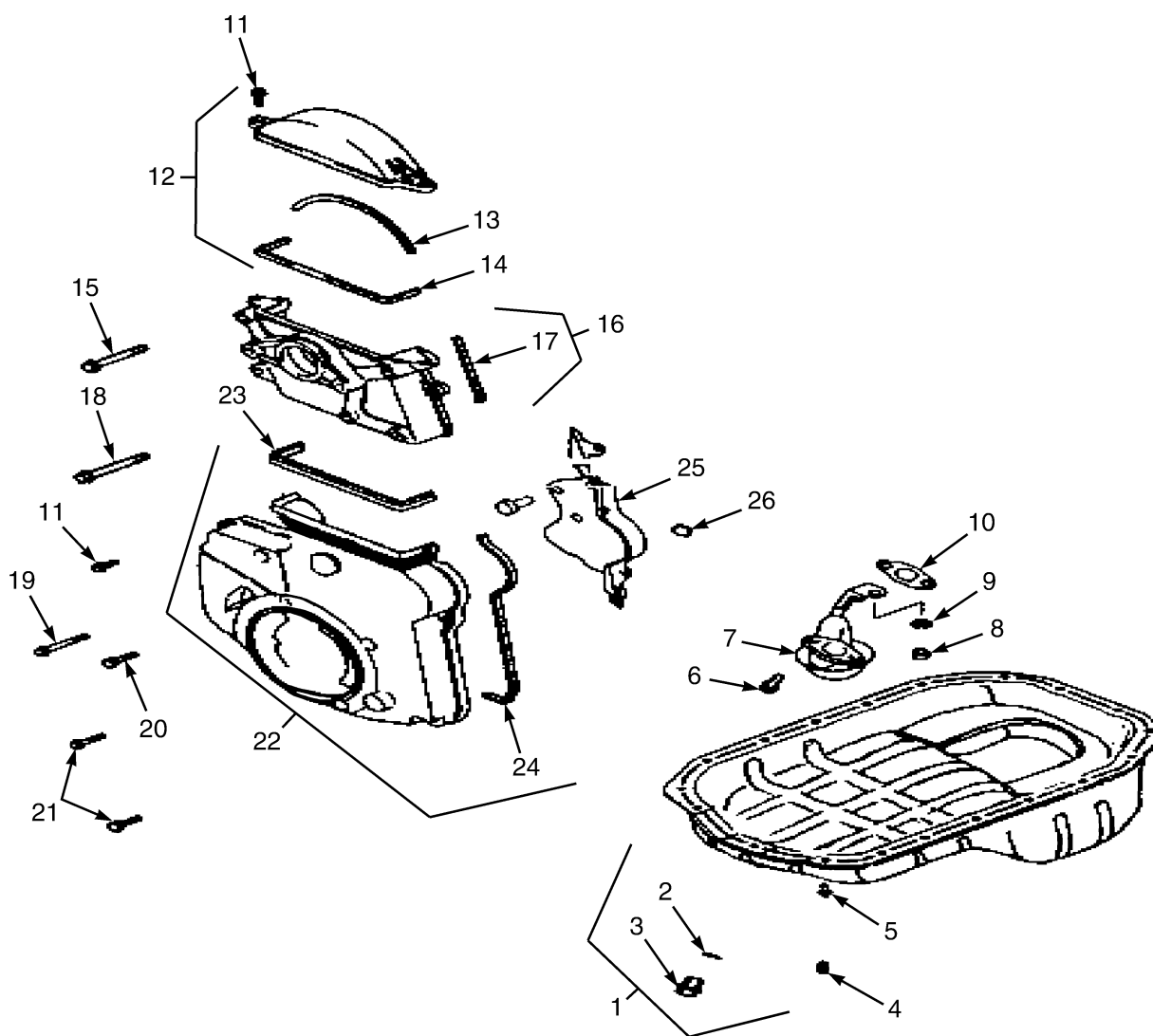
INTAKE MANIFOLD (FIGURE 2-26)
PSI 2.4L LPG AND 2.4L BI-FUEL

BP090980

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153437	Intake Manifold	1
1	4137349	Intake Manifold (Dual-Fuel)	1
2	1382472		
	1502543	Nut	10
3	4019120	Plug	2
4	4111262	Stud	2
5	4111264	Stud	4
6	4111265	Stud	2
7	4111261	Stud	2
8	4111266	Gasket (Intake Manifold)	1

FRONT COVER AND OIL PAN (FIGURE 2-27)

PSI 2.4L

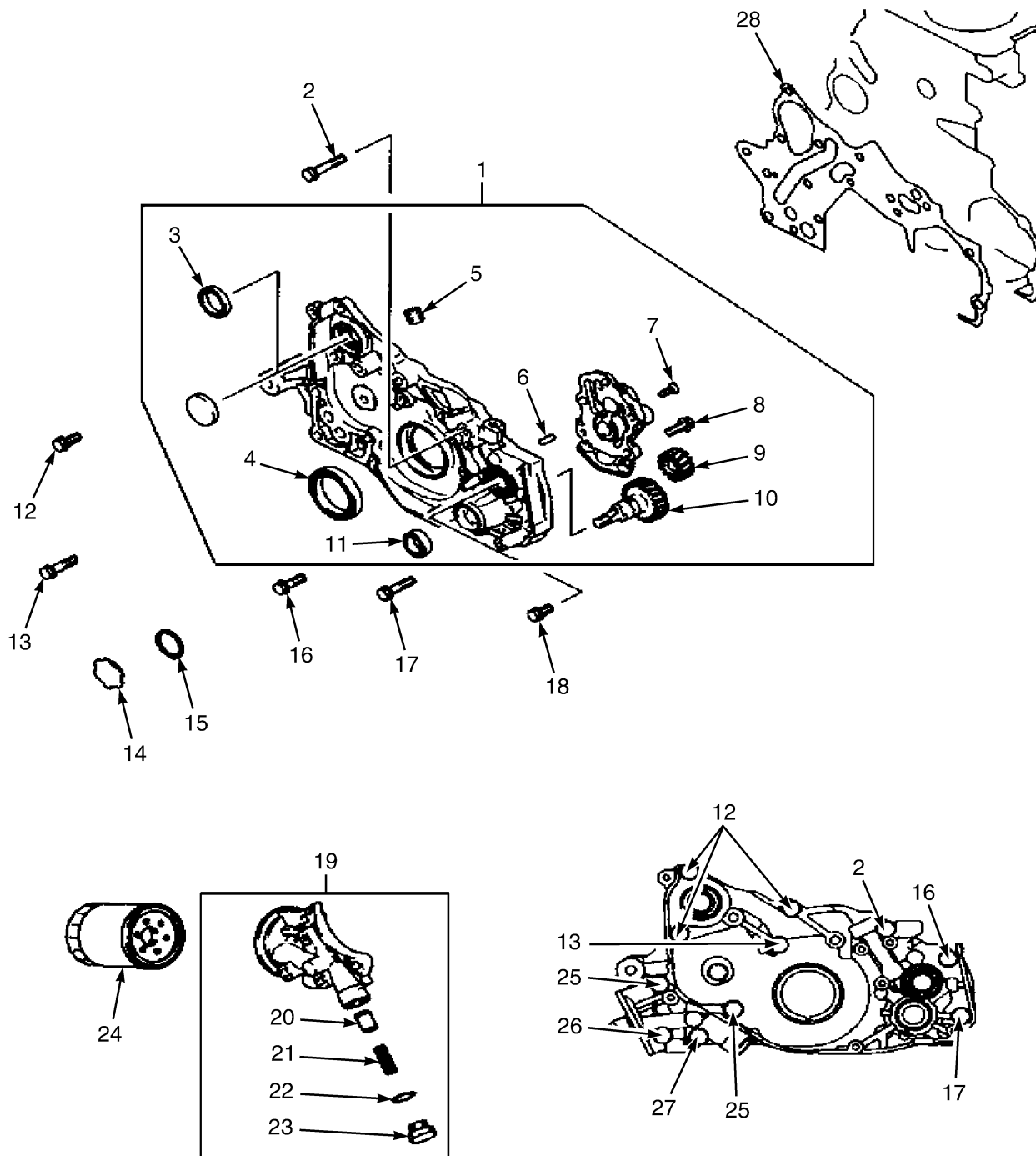


BP090735

FRONT COVER AND OIL PAN
PSI 2.4L

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111194		
	4141178	Oil Pan	1
2	4111208	Gasket (Oil Drain)	1
3	4111209	Drain Plug	1
4	4111210	Bolt	17
5	4111276	Bolt	2
6	4111632	Bolt	2
7	4111645	Screen	1
8	4111736	Nut	1
9	4111737	Washer	1
10	4111738	Gasket	1
11	4111739	Bolt	8
12	4111740	Cover (Front Upper)	1
13		Gasket (Timing Belt Cover)	1
14		Gasket (Timing Belt Cover)	1
15	4111742	Bolt	3
16	4137320	Cover (Timing Gear)	1
17		Gasket	1
18	4111743	Bolt	1
19	4111744	Bolt	1
20	4111745	Bolt	2
21	4111746	Bolt	2
22	4111747	Cover (T-Belt)	1
23		Gasket (Lower Cover)	1
24		Gasket (Lower Cover)	1
25	4111749	Cover (Rear)	1
26	4111751	Plug	1

OIL PUMP AND ATTACHING PARTS (FIGURE 2-28) PSI 2.4L

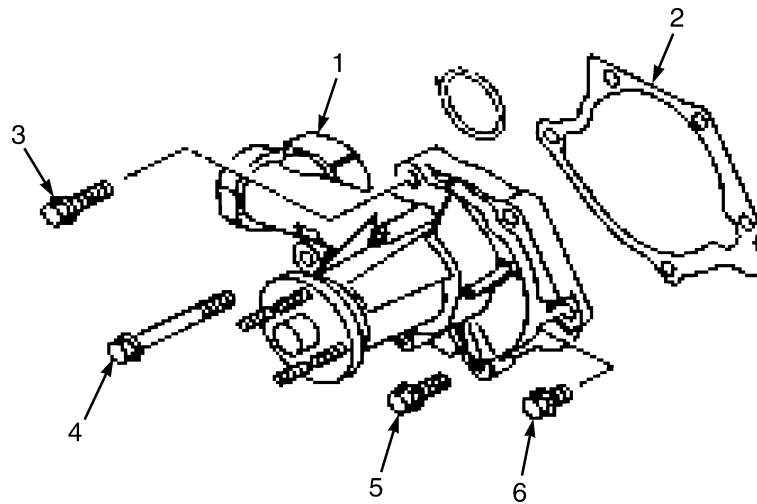


BP090978

OIL PUMP AND ATTACHING PARTS
PSI 2.4L

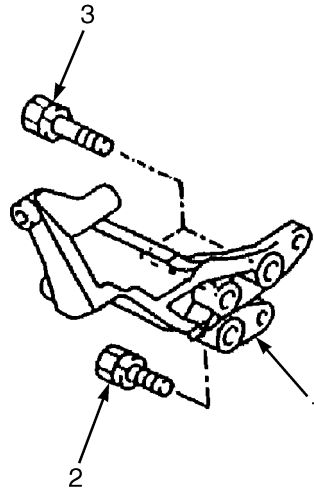
ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4112340	Oil Pump	1
2	4112341	Bolt	1
3	4112342	Oil Seal	1
4	4112343	Oil Seal	1
5	4112344	Plug	1
6	4111697	Dowel	2
7	4112345	Screw	1
8	4112346	Bolt	4
9		Oil Pump Gear	1
10		Oil Pump Drive Gear	1
11	4112361	Oil Seal	1
12	4111239	Bolt	3
13	4112348	Bolt	1
14	4112349	Cap	1
15	4112350	O-Ring	1
16	4112351	Bolt	1
17	4112352	Bolt	1
18	4112329	Bolt	1
19	4112353	Bracket	1
20		Plunger	1
21	4112355	Spring	1
22	4112356	Gasket	1
23	4112357	Plug	1
24	4122335	Oil Filter	1
25	4112358	Bolt	2
26	4112359	Bolt	1
27	4112360	Bolt	1
28	4112347	Gasket	1

WATER PUMP (FIGURE 2-29) PSI 2.4L



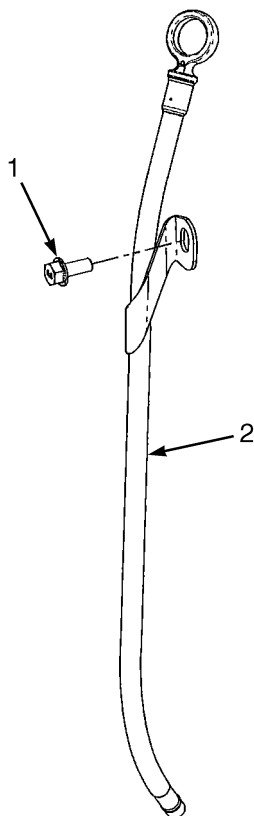
BP090741

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4112416	Water Pump	1
2	4112417	Gasket	1
3	4112418	Bolt	1
4	4111742	Bolt	1
5	4112419	Bolt	2
6	4112420	Bolt	1
	4116503	Kit-Service 5000 hours (Includes Items 1-2)	1

PUMP MOUNT BRACKET (FIGURE 2-30)
PSI 2.4L LPG AND 2.4L BI-FUEL

BP090983

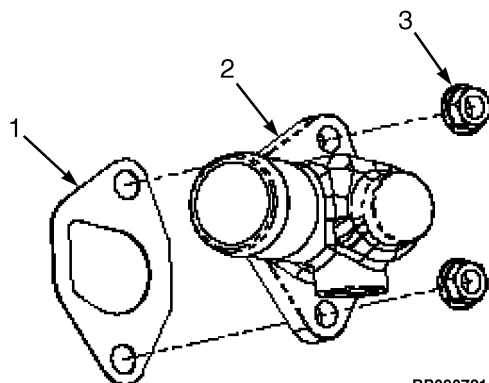
ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4145806	Bracket	1
2	4145807	Bolt and Washer Set	1
3	4145808	Bolt and Washer Set	2

DIPSTICK AND TUBE (FIGURE 2-31)
PSI 2.4L LPG

BP090985

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153415	Bolt	1
2	4146209	Dipstick and Tube Assembly	1

WATER OUTLET (FIGURE 2-32)
WITHOUT CAB HEATER — PSI 2.4L LPG AND 2.4L BI-FUEL

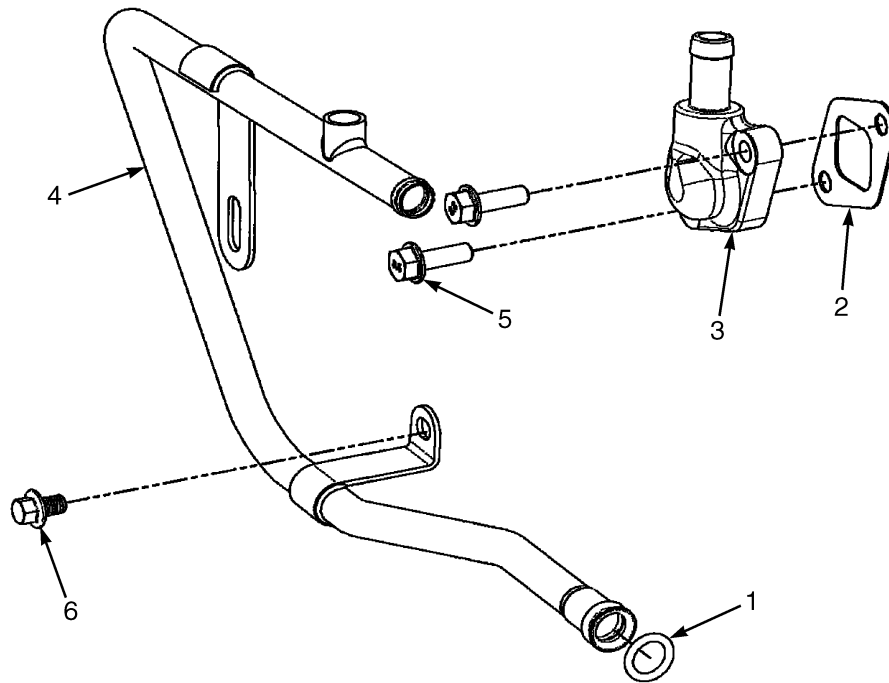


BP090721

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111232	Gasket	1
2	4111229	Water Outlet	1
3	1382472		
	1502543	Nut	2
	a 4111238	Thermostat	1

FOOTNOTES:**a** Not Illustrated

DSR COOLANT CIRCUIT (FIGURE 2-33) PSI 2.4L LPG



BP090984

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4111252		
	4168639	O-Ring	1
2	4111250	Gasket	1
3	4111249		
	4153346	Outlet (Water Bypass)	1
4	4140927	Tube (Coolant)	1
5	4111235	Bolt	2
6	4136115		
	4137335	Capscrew	1

3

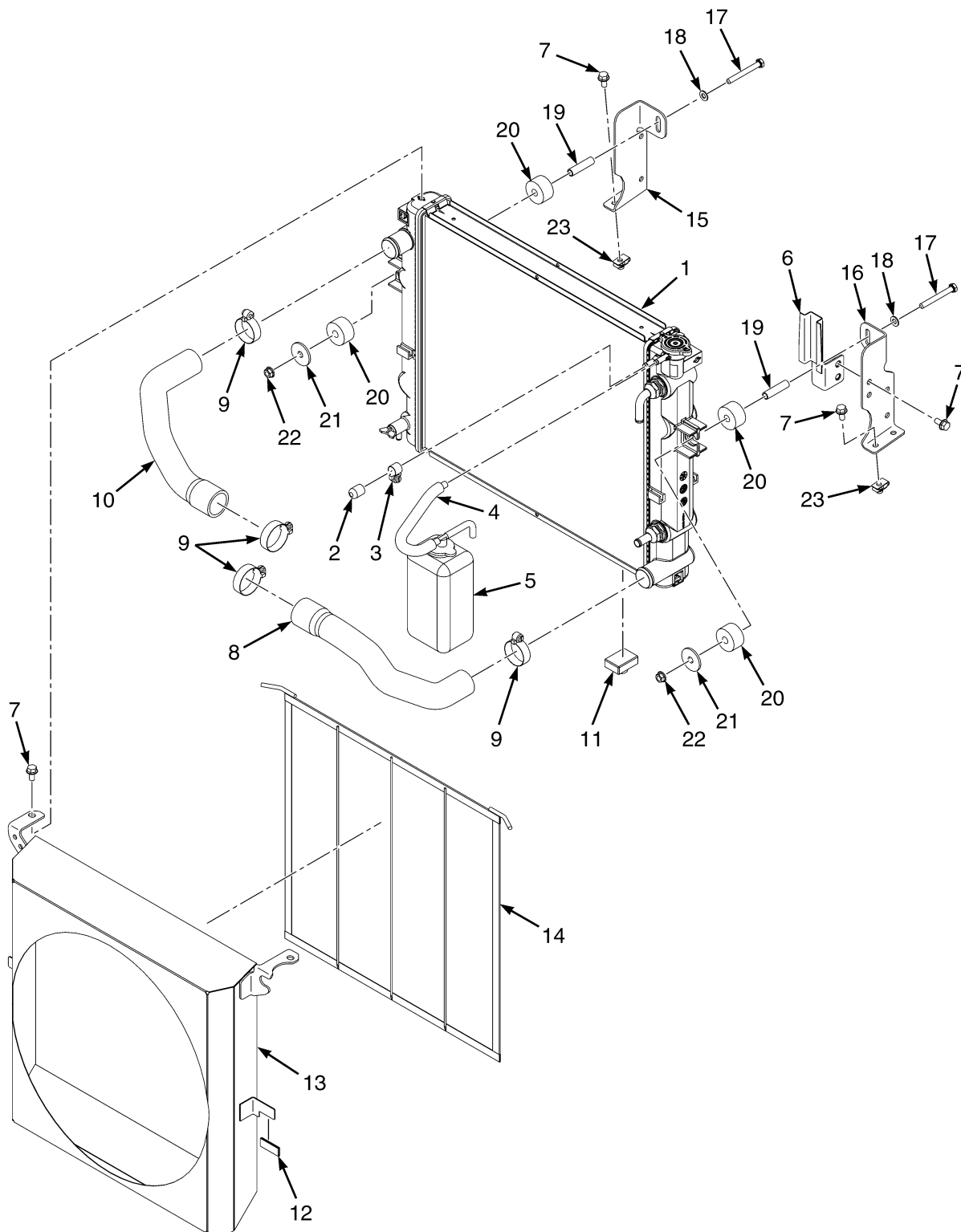
ENGINE ASSEMBLY - YANMAR

SECTION 3

ENGINE ASSEMBLY - YANMAR

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COOLING SYSTEM (FIGURE 3-1) YANMAR STANDARD AND ANTI-CLOG — WITHOUT SILENCER



BP060157

COOLING SYSTEM

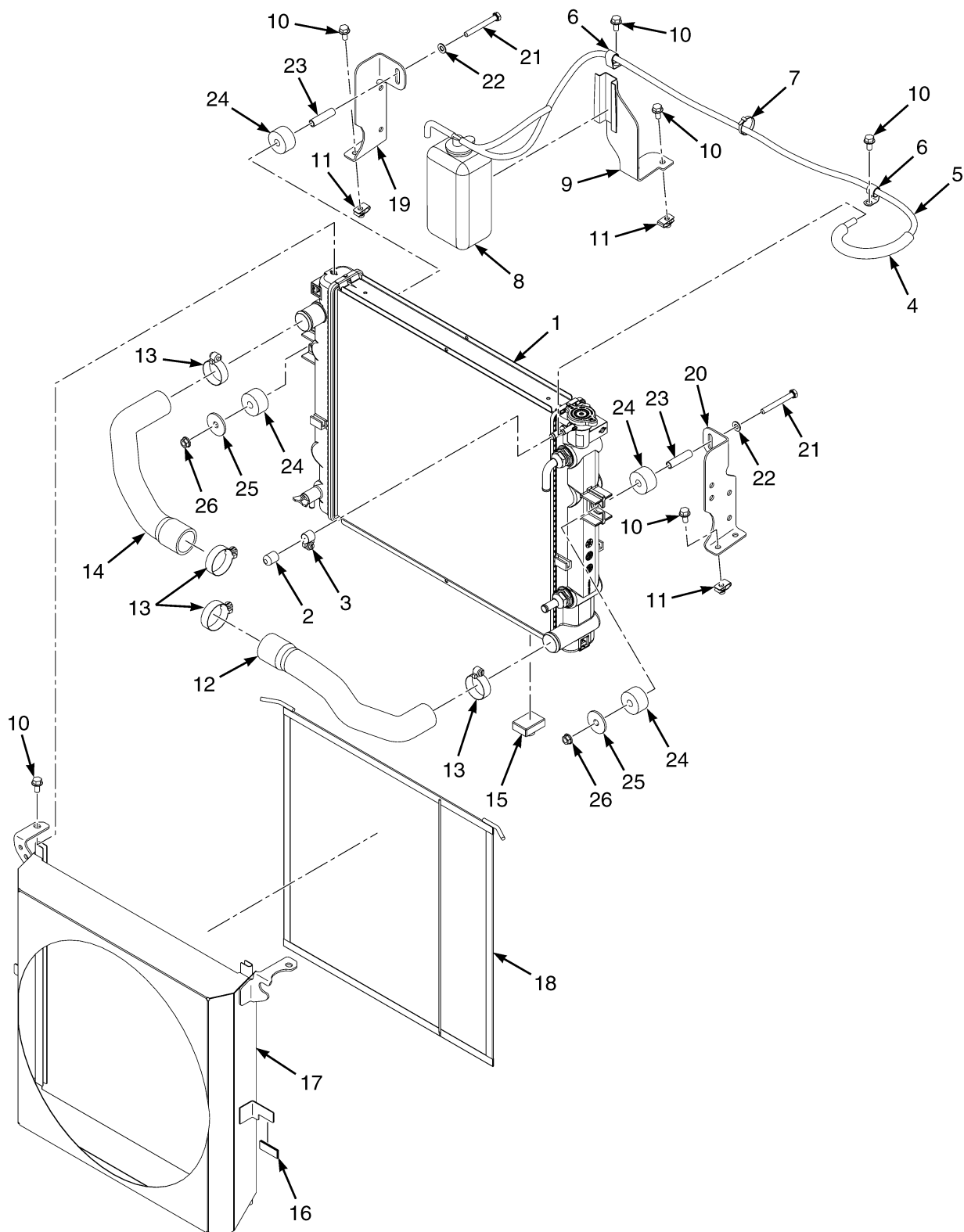
YANMAR STANDARD AND ANTI-CLOG – WITHOUT SILENCER

KEY:**A:** Without Lint Screen**B:** With Lint Screen

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4643831	Radiator (Standard)	1	1
1	4643832	Radiator (Anti-Clog)	1	1
1	4180891	Plug (Drain)	1	1
1	4180892	Radiator Cap	1	1
2	4133320	Cap	1	1
3	166857	Clamp	1	1
4	2089649	Protection Tube	1	1
5	2030673	Reservoir	1	1
5	2030675	Conductor	1	1
5	2030677	Hose Assy	2	2
5	2030679	Pipe	1	1
5	2030678	Clamp	1	1
6	2089654	Bracket	1	1
7	4109993			
	1527879	Capscrew	8	8
8	4155041	Hose	1	1
9	369804	Clamp	4	4
10	4155842	Hose	1	1
11	2085801	Rubber Mount	2	2
12	2028265	Plate	2	2
13	4125744	Shroud	1	..
13	4139909	Shroud (With Lint Screen)	..	1
14	2107165	Screen	..	1
15	4110495	Bracket	1	1
16	4108965	Bracket	1	1
17	136703	Capscrew	2	2
18	320157	Washer	2	2
19	2029223	Spacer	2	2
20	2021512	Rubber Cushion	4	4
21	4175769	Washer	2	2
22	1382472			
	1502543	Nut	2	2
23	1480237	Nut , Foldover	4	4
	a 4158903	Shield	1	1

FOOTNOTES:**a** Not Illustrated

COOLING SYSTEM (FIGURE 3-2) YANMAR STANDARD AND ANTI-CLOG — WITH SILENCER



BP060156

COOLING SYSTEM

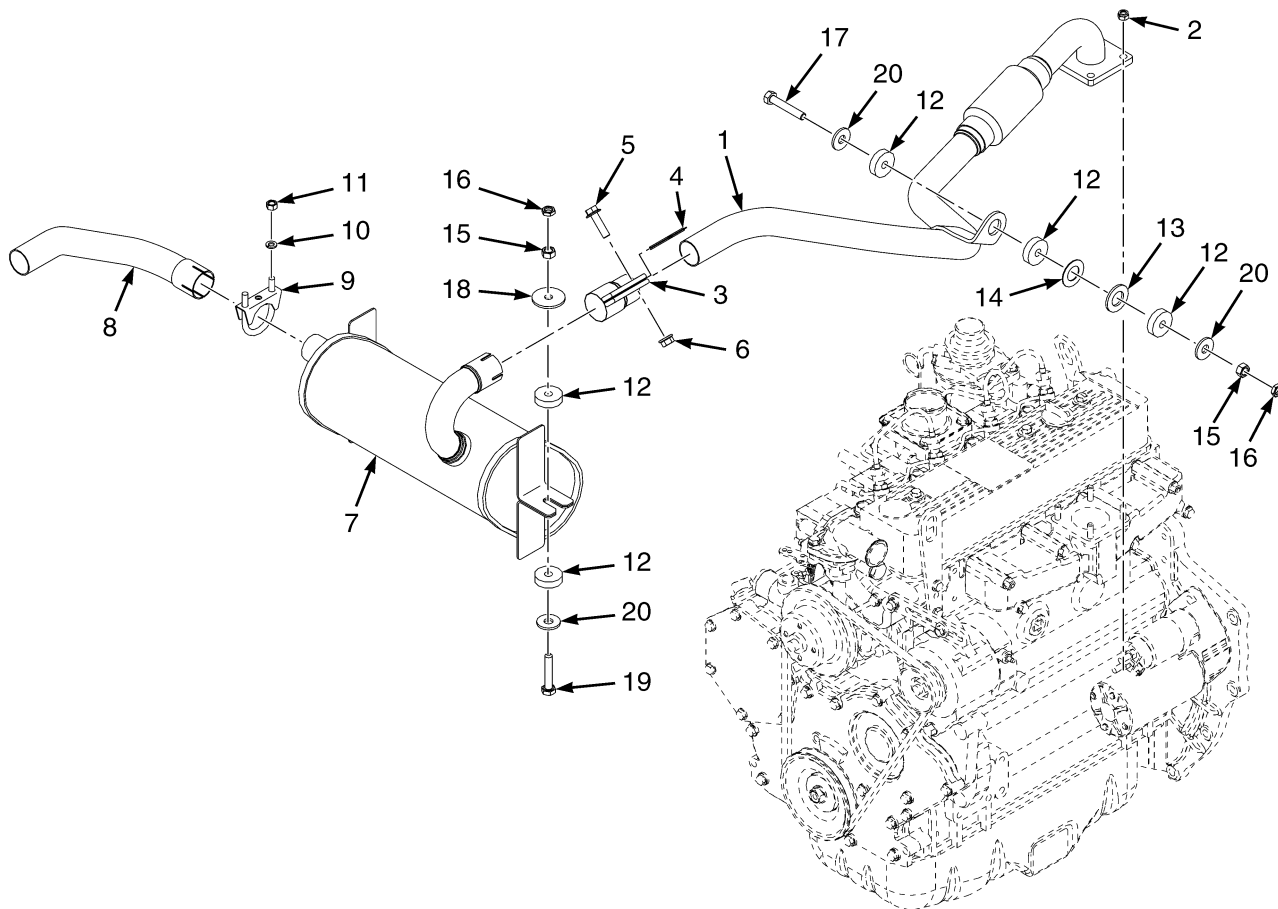
YANMAR STANDARD AND ANTI-CLOG – WITH SILENCER

KEY:**A:** Without Lint Screen**B:** With Lint Screen

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4643831	Radiator (Standard)	1	1
1	4643832	Radiator (Anti-Clog)	1	1
1	4180891	Plug (Drain)	1	1
1	4180892	Radiator Cap	1	1
2	4133320	Cap	1	1
3	166857	Clamp	1	1
4	2089649	Protection Tube	1	1
5	1302954	Hose (Plastic Tube)	..	1
6	2022013	Clamp	2	2
7	1352606	Strap Clamp	1	1
8	2030673	Reservoir	1	1
8	2030675	Conductor	1	1
8	2030677	Hose Assy	2	2
8	2030679	Pipe	1	1
8	2030678	Clamp	1	1
9	4124290	Bracket	1	1
10	4109993			
	1527879	Capscrew	8	8
11	1480237	Nut , Foldover	6	6
12	4155041	Hose (Lower)	1	1
13	369804	Clamp	4	4
14	4155842	Hose (Upper)	1	1
15	2085801	Rubber Mount	2	2
16	2028265	Plate	2	2
17	4125744	Shroud	1	..
17	4139909	Shroud (With Lint Screen)	..	1
18	2107165	Screen	..	1
19	4110495	Bracket	1	1
20	4108965	Bracket	1	1
21	136703	Capscrew	2	2
22	320157	Washer	2	2
23	2029223	Spacer	2	2
24	2021512	Rubber Cushion	4	4
25	4175769	Washer	2	2
26	1382472			
	1502543	Nut	2	2
	a 4158903	Shield	1	1

FOOTNOTES:**a** Not Illustrated

COUNTERWEIGHT EXHAUST (FIGURE 3-3) YANMAR 3.3L

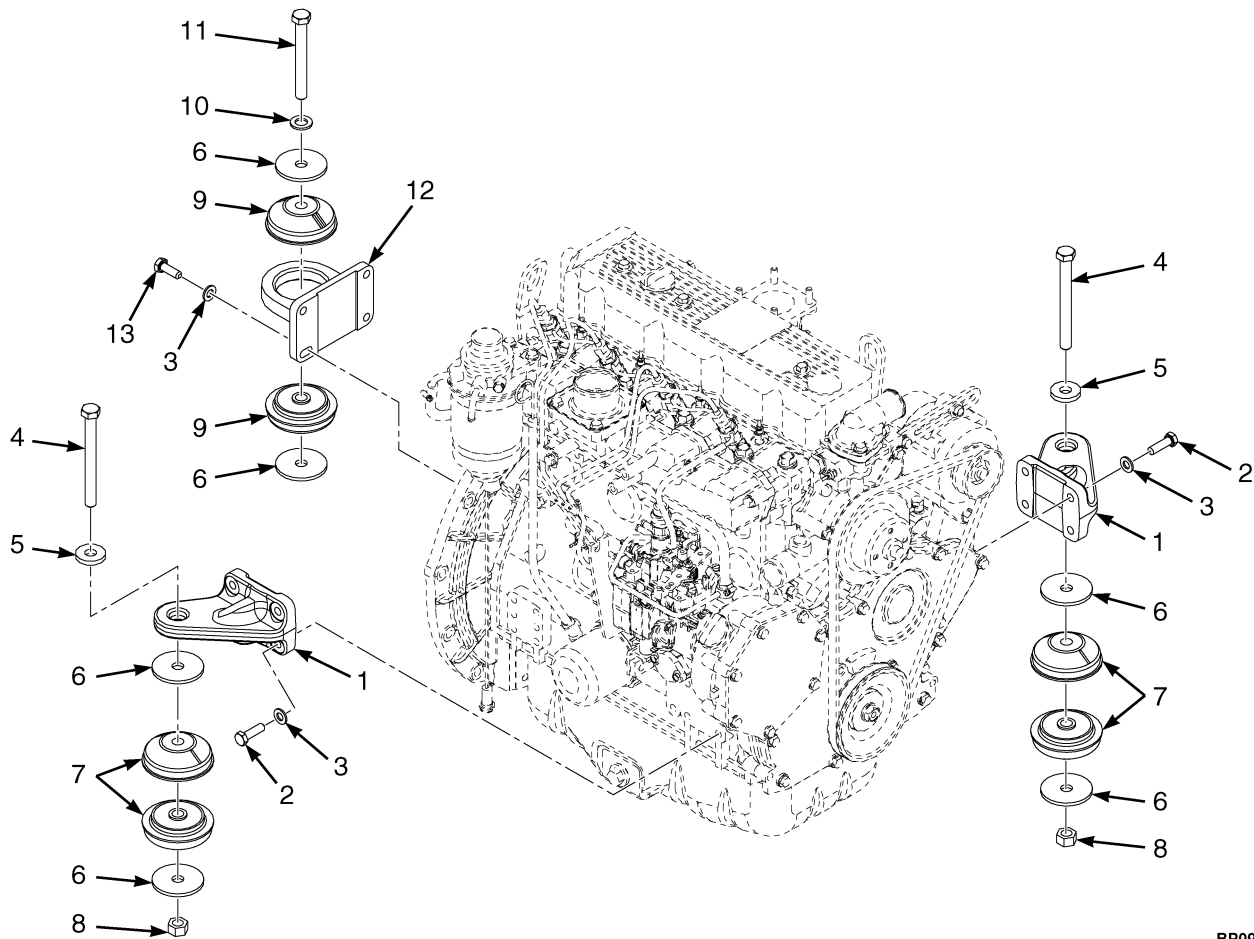


BP110188

**COUNTERWEIGHT EXHAUST
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
1	4154360	Exhaust Pipe	1
2	1582222	Locknut	4
3	2101107	Clamp	1
4	2102323	Gasket	1
5	1527885	Capscrew	2
6	1460477	Nut	2
7	2081918	Muffler	1
8	4136915	Exhaust Pipe	1
9	2081919	Clamp	1
10	292681	Lockwasher	2
11	2022719	Nut	2
12	1351177	Rubber Cushion	7
13	2023006	Shim (T=3.2)	1
14	2023007	Shim (T=1.2)	1
15	136692	Nut	3
16	1593336	Nut	3
17	292518	Capscrew	2
18	1351176	Washer	2
19	302294	Capscrew	1
20	2022973	Washer	4

ENGINE MOUNTING (FIGURE 3-4) YANMAR ENGINE



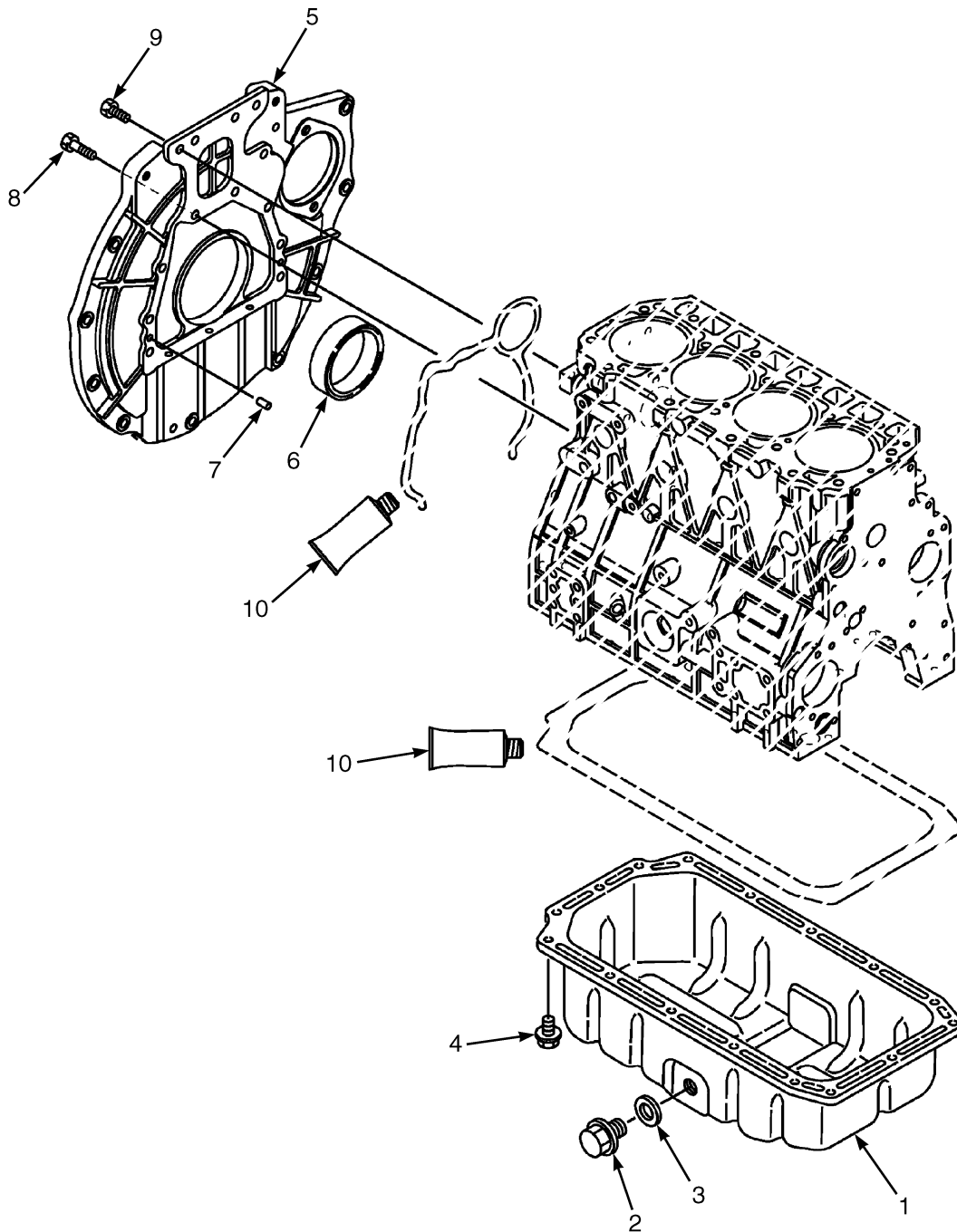
BP090950

**ENGINE MOUNTING
YANMAR ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	2067900	Plate	2
2	293630	Capscrew	8
3	296420	Washer	12
4	293680	Capscrew	2
5	2081588	Washer	2
6	2081587	Washer	6
7	4132931	Isolator	4
8	2081589	Nut	2
9	4132930	Isolator	2
10	296424	Washer	1
11	293678	Capscrew	1
12	2105228	Bracket (Mounts to Transmission)	1
13	136985	Capscrew	4
	a 280472	Sealant	AR

FOOTNOTES:**a** Not Illustrated

OIL PAN AND FLYWHEEL HOUSING (FIGURE 3-5) YANMAR 3.3L — DIESEL

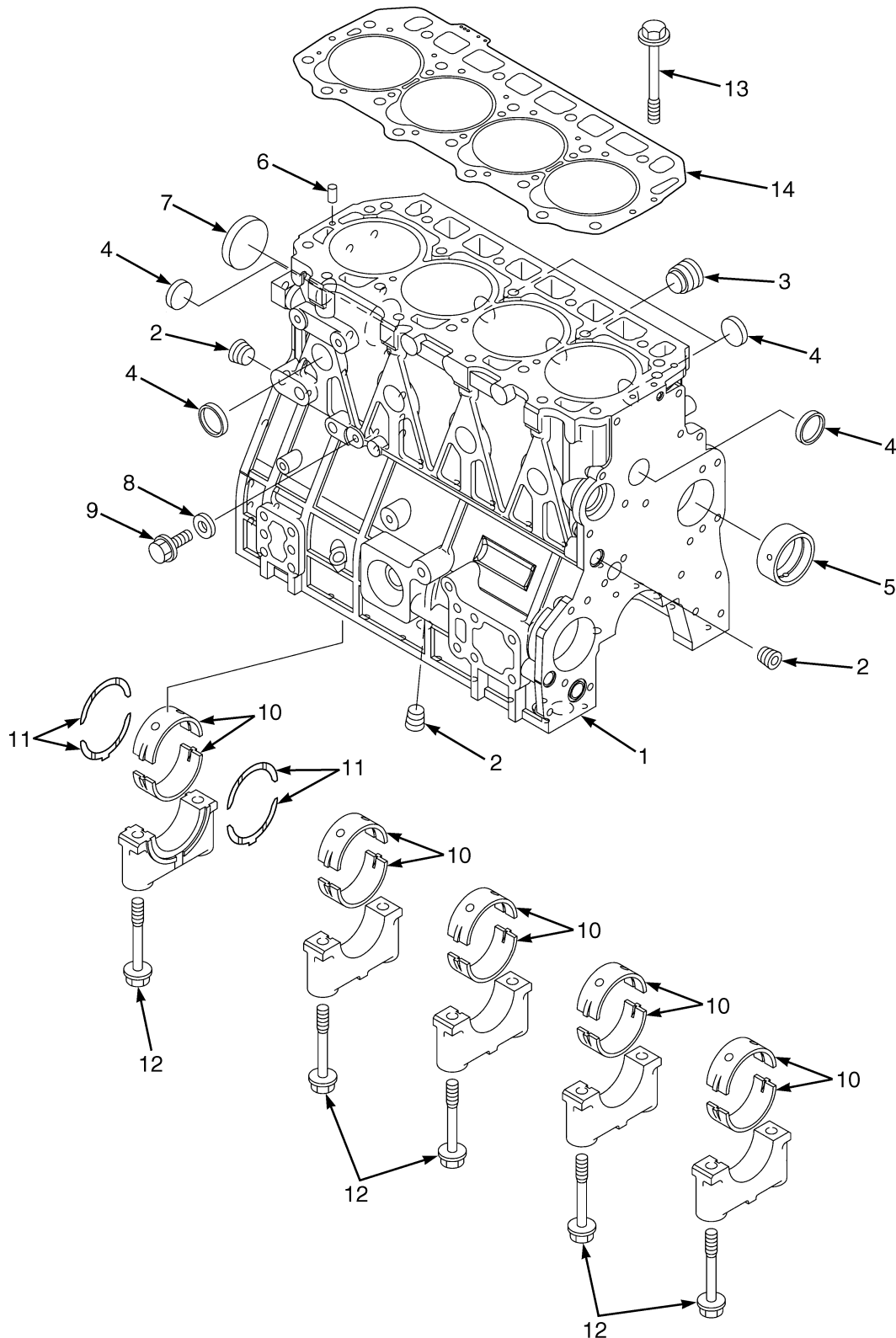


BP090965

**OIL PAN AND FLYWHEEL HOUSING
YANMAR 3.3L – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	1599479	Oil Pan	1
2	1599480	Drain Plug	1
3	1599481	Oil Seal	1
4	1599448	Bolt	16
5	2079757	Flywheel Housing	1
6	1599484		
	1707826	Seal	1
7	1599458	Pin	2
8	2084314	Bolt	9
9	2084313	Bolt	4
10	2084312	Gasket (Silicone Not Illustrated)	AR

CYLINDER BLOCK (FIGURE 3-6) YANMAR 3.3L — DIESEL

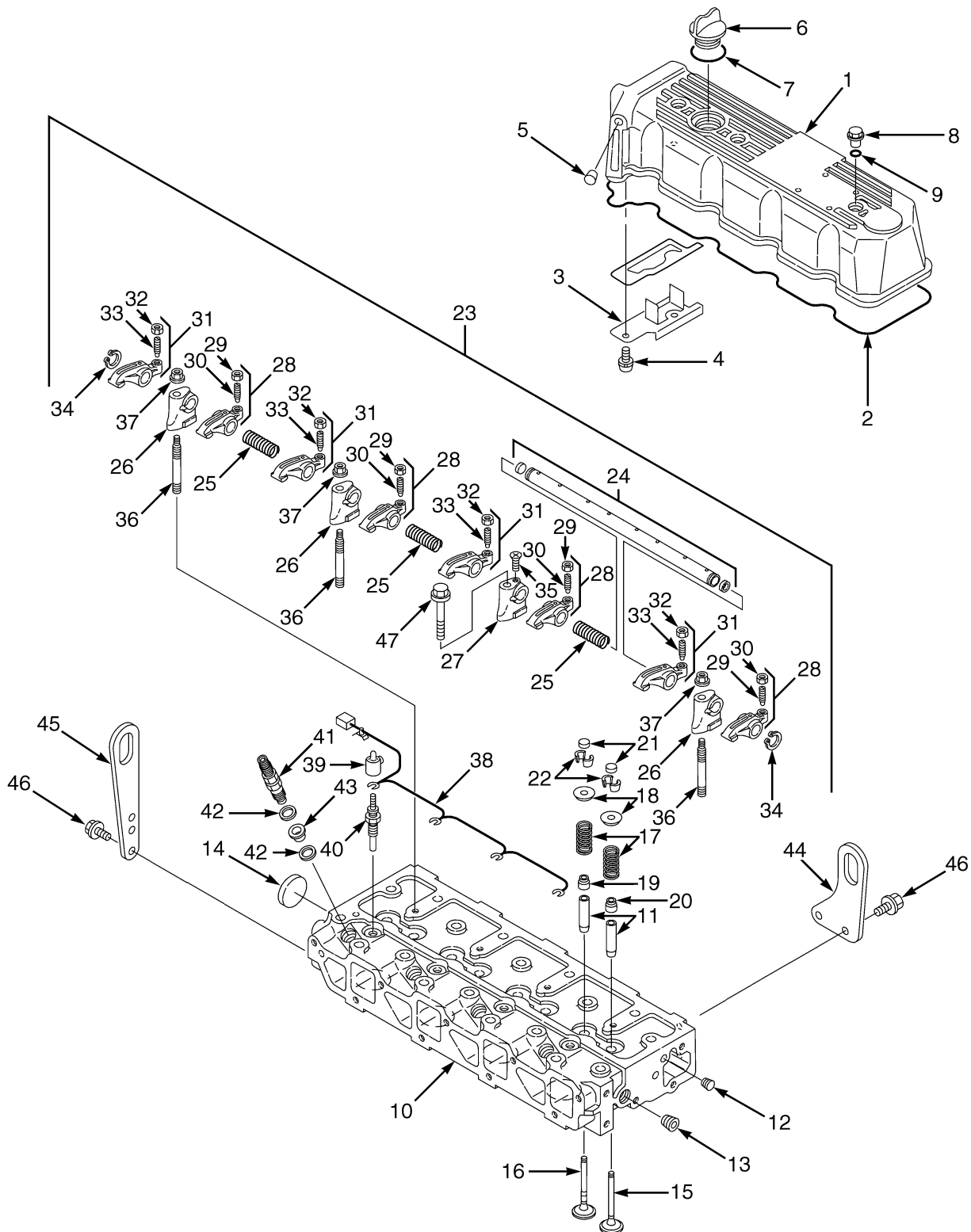


BP090964

**CYLINDER BLOCK
YANMAR 3.3L – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	2091238	Short Block (3.3L)	1
1	1599904	Cylinder Block (3.3L)	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	1599905	Cylinder Head Gasket (3.3L)	1
		Gasket Kit (☞ Figure 3-20).....	1

CYLINDER HEAD (FIGURE 3-7) YANMAR 3.3L — DIESEL

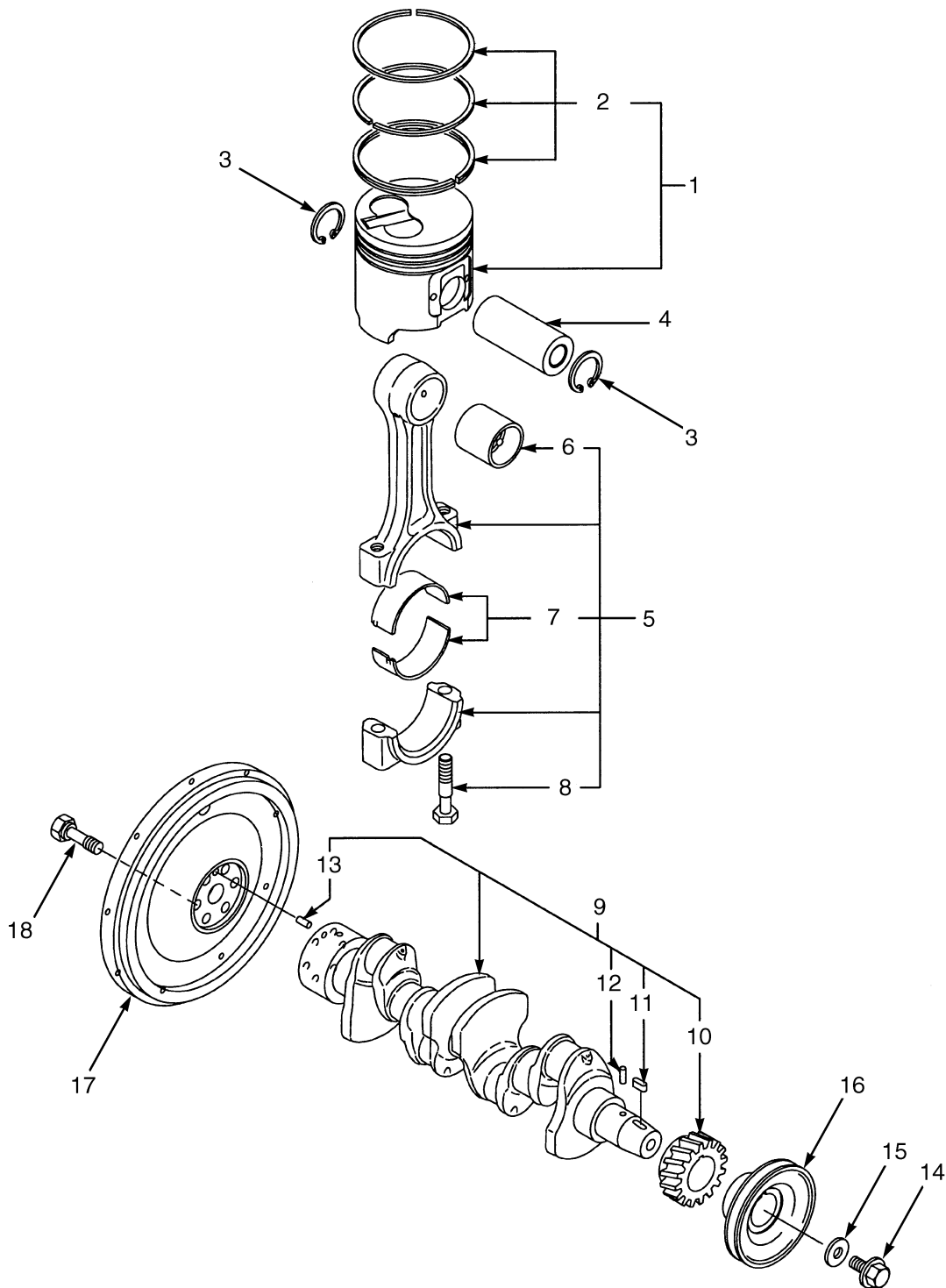


BP090184

**CYLINDER HEAD
YANMAR 3.3L – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	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	1600273	Cylinder Head (3.3L)	1
11	1599525	Guide	8
12	1599526	Plug	1
13	1599441	Plug	1
14	1599528	Plug	1
15	1599489	Inlet Valve	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	2084316	Connector (Glow Plug)	1
39	1599557	Cover	4
40	4068196	Plug (Glow Plug)	4
41	1599819	Nozzle	1
42	1599523	Gasket	8
43	1599522	Protector	4
44	1599486	Lifting Eye	1
45	2084315	Hook , Engine Lift	1
46	1599470	Bolt	4
47	1599555	Bolt	1

CRANKSHAFT AND PISTONS (FIGURE 3-8) YANMAR 3.3L — DIESEL



BP090187

CRANKSHAFT AND PISTONS
YANMAR 3.3L – DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	1600276	Piston (With Standard Rings) (3.3L)	4
1	1600278	Piston (O/S 0.25 with Rings) (3.3L)	4
2	1600277	Kit-Piston Ring (Standard) (3.3L)	1
2	1600279	Kit-Piston Ring (O/S 0.25) (3.3L)	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	2084471	Crankshaft (3.3L)	1
10	2084322	Gear	1
11	1599574	Key	1
12	1599585	Pin	1
13	1599586	Pin	1
14	1720462	Bolt	1
15	1599589	Washer	1
16	4607618	Pulley , Used with 3.3L High Speed Fan	1
17	2079758	Flywheel	1
17	2084323	Ring Gear	1
18	1599591	Bolt	6

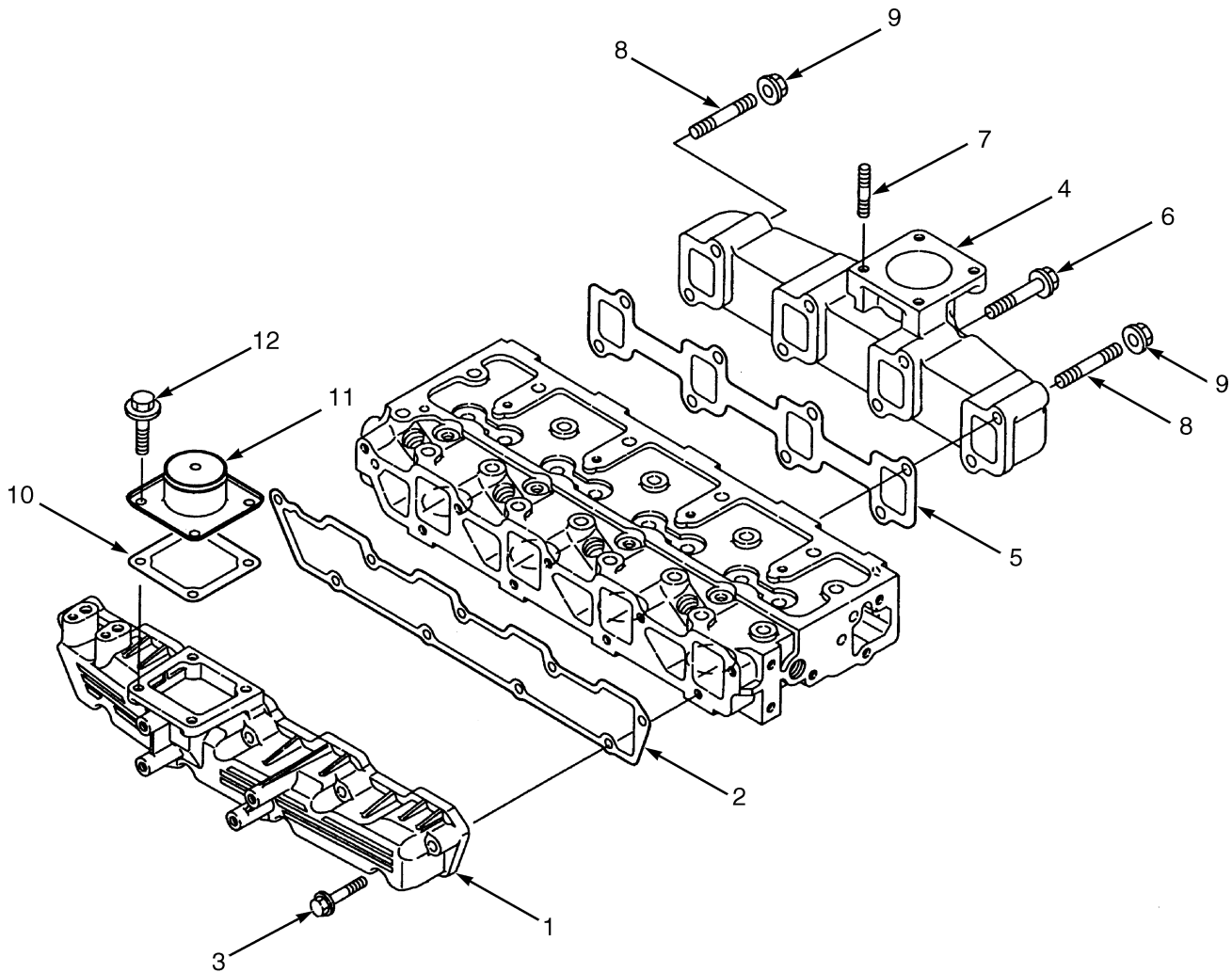
This technical drawing is an exploded view of a mechanical assembly, likely a fuel system component. It features a central rectangular plate with various ports and mounting points. The assembly includes a vertical tube (1) with a handle at the top, a curved tube (2) connected to the side, and a horizontal tube (3) with a valve (4) and a connector (5). A large cylindrical component (6) is shown below the main plate, with a small cylindrical part (7) attached to its side. A bracket (8) with a handle (9) is positioned at the bottom. Various bolts and screws (10, 11, 12, 13, 14) are shown in their respective positions for assembly. A detailed inset shows the specific arrangement of bolts 10 and 11 on a small component.

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**LUBRICATION SYSTEM
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	1599604	Dipstick	1
2	1599605	Guide	1
3	1599606	Dipstick Tube	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	1599448	Bolt	2
11	1599445	Washer	4
12	1599613	Pressure Switch (Oil Pressure)	1
13	2084325	Pipe	1
14	2084326	Bolt	2

INTAKE AND EXHAUST MANIFOLD (FIGURE 3-10) YANMAR 3.3L

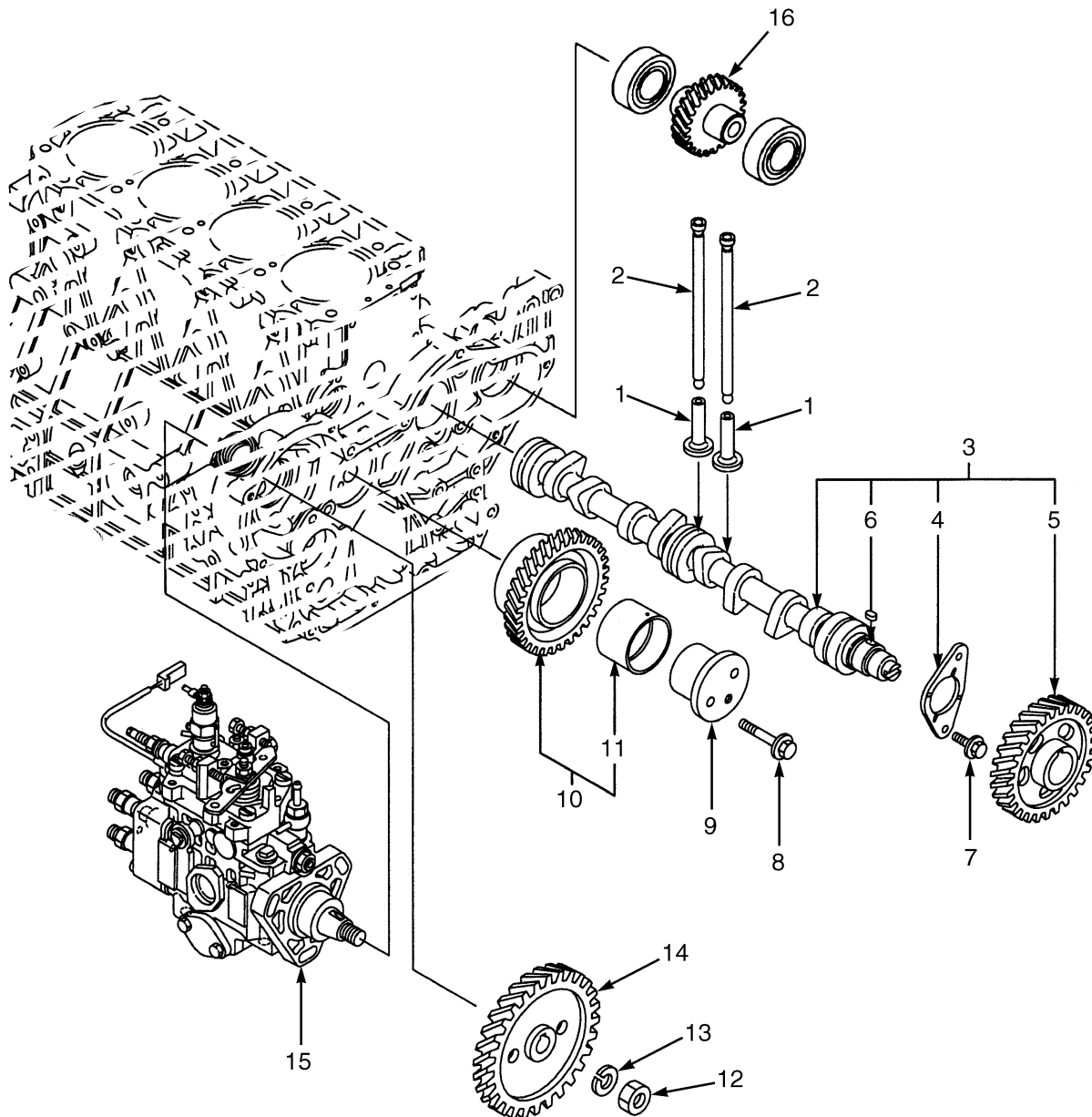


BP090185

**INTAKE AND EXHAUST MANIFOLD
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	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
	2068377	Gasket (Exhaust)	1

CAMSHAFT AND DRIVE GEAR (FIGURE 3-11) YANMAR 3.3L

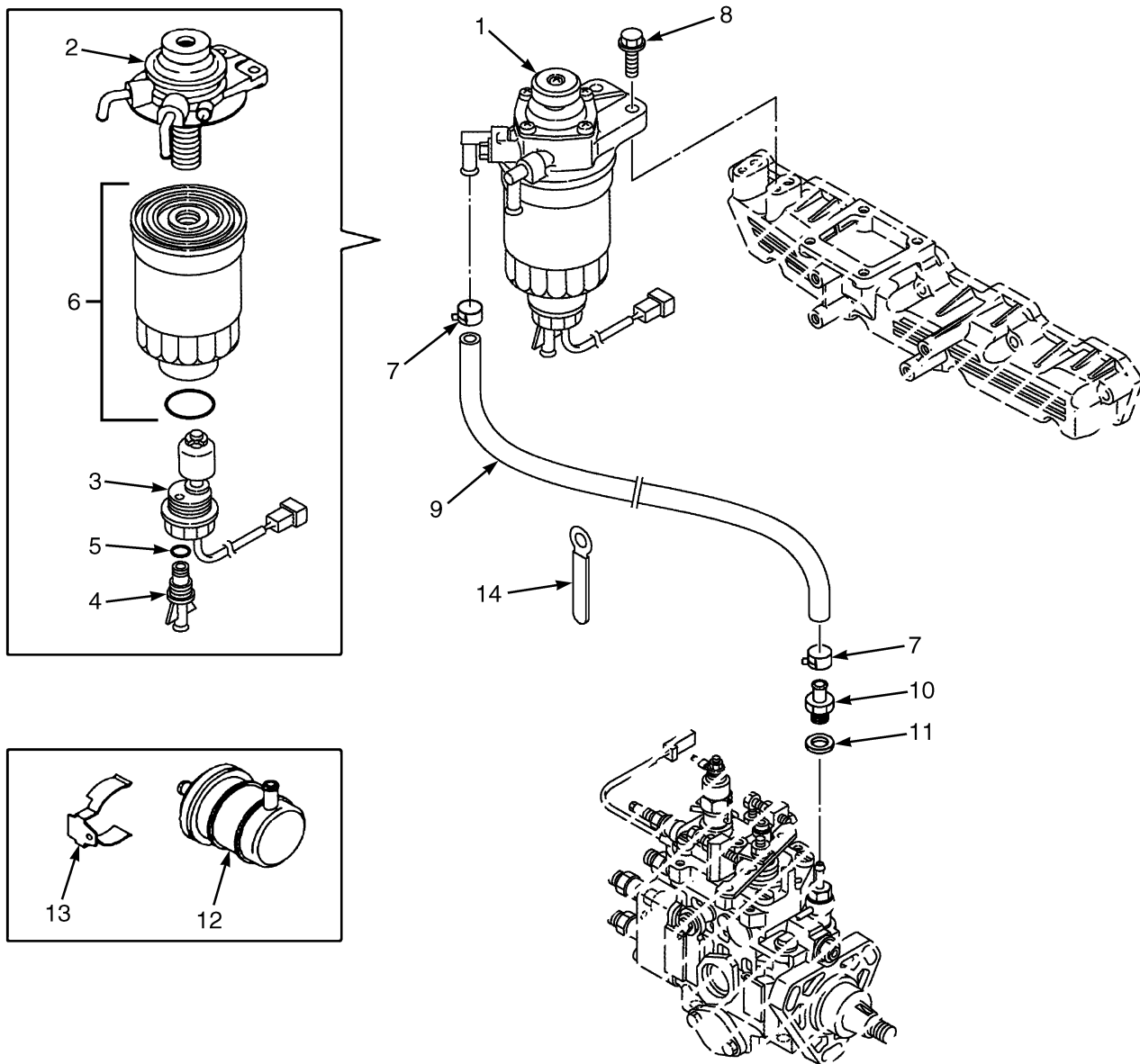


BP090967

**CAMSHAFT AND DRIVE GEAR
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	1599569	Tappet	8
2	1599570	Push Rod	8
3	2084317	Camshaft	1
4	1599572	Retainer	1
5	2084318	Gear	1
6	1599574	Key	1
7	1599568	Bolt	2
8	1599579	Bolt	2
9	1599576	Shaft	1
10	2084319	Gear	1
11	1599578	Bushing	1
12	1599582	Locknut	1
13	1599581	Spring Washer	1
14	1599580	Gear	1
15	2080675	Injection Pump	1
16	2084320	Gear (Hydraulic Pump)	1

FUEL FILTER AND WATER SEPARATOR (FIGURE 3-12) YANMAR 3.3L

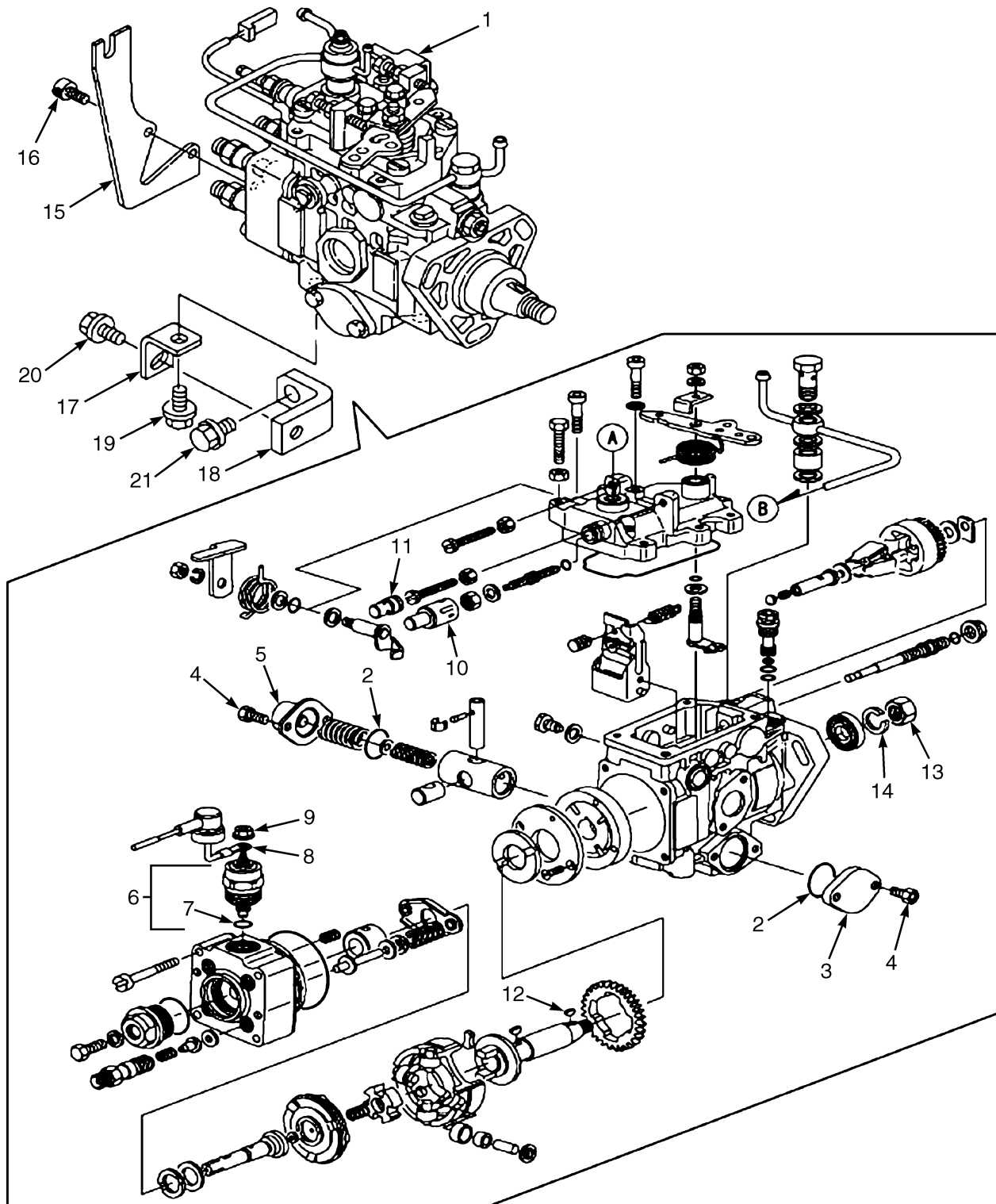


BP090968

**FUEL FILTER AND WATER SEPARATOR
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	2084448	Fuel Filter	1
2	2084449	Filter Head	1
3	2084450	Sensor	1
4	2084451	Plug	1
5	2084452	O-Ring	1
6	2084453	Element Assy	1
7	1599842	Clamp	2
8	1599801	Bolt	2
9	1599841	Tube Assy	1
10	2084454	Fitting	1
11	1600086	Seal	2
12	1586457	Fuel Filter	1
13	2081974	Clamp	1
14	1599843	Clamp	2

INJECTION PUMP (FIGURE 3-13) YANMAR 3.3L



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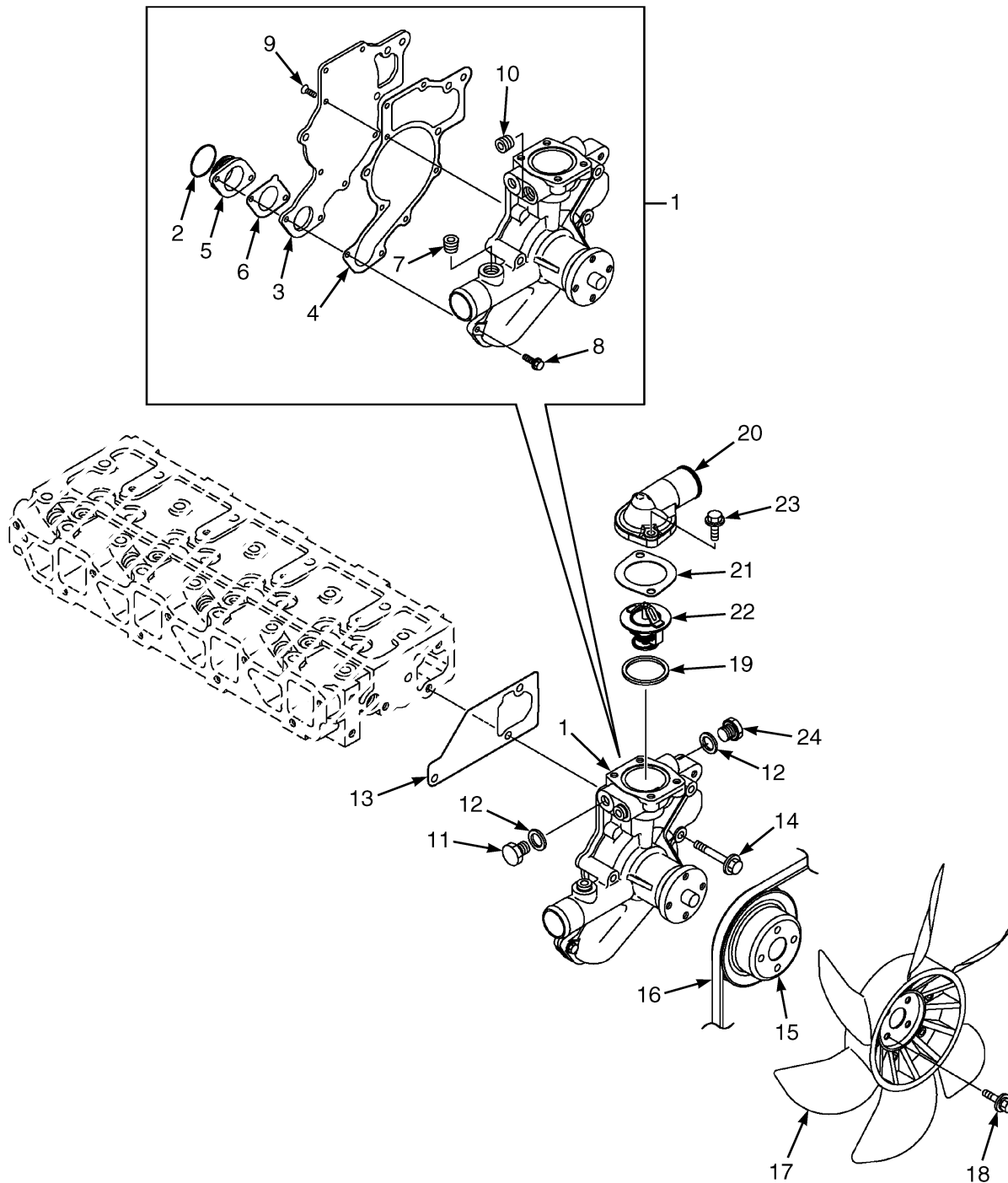
**INJECTION PUMP
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	2080676	Injection Pump , 3.3L Diesel	1
2	2084349	O-Ring	2
3	2084356	Cover	1
4	2084355	Bolt	4
5	2084354	Cover	1
6	1608616	Solenoid (Fuel Shut-Off)	1
7	1608617	O-Ring	1
8	2084430	Wire	1
9	2084431	Nut	2
10	2084436	Cap	1
11	4639365	Cap	1
12	2084442	Woodruff Key	1
13	2084443	Nut	1
14	2084444	Spring Washer	1
15	1599907	Bracket	1
16	1599908	Bolt	2
17	1599909	Retainer	1
18	1599910	Bracket	1
19	1599911	Bolt	1
20	1599912	Bolt	1
21	1599913	Bolt	1

**FUEL INJECTION SYSTEM
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	1599818	Injector	4
2	1599819	Nozzle	4
3	1689746	Shim	4
4	1599831	Gasket	4
5	1599832	Nut	4
6	1599830	Tube Assy (Fuel Return)	1
7	1599829	Clamp	2
8	1599828	Tube Assy (Return)	1
9	1599827	Tube Assy (#4)	1
10	1599826	Tube Assy (#3)	1
11	1599825	Tube Assy (#2)	1
12	1599824	Tube Assy (#1)	1
13	1599822	Bolt	4
14	1599823	Retainer	1
15	1599821	Retainer	2

WATER COOLING SYSTEM (FIGURE 3-15) YANMAR 3.3L



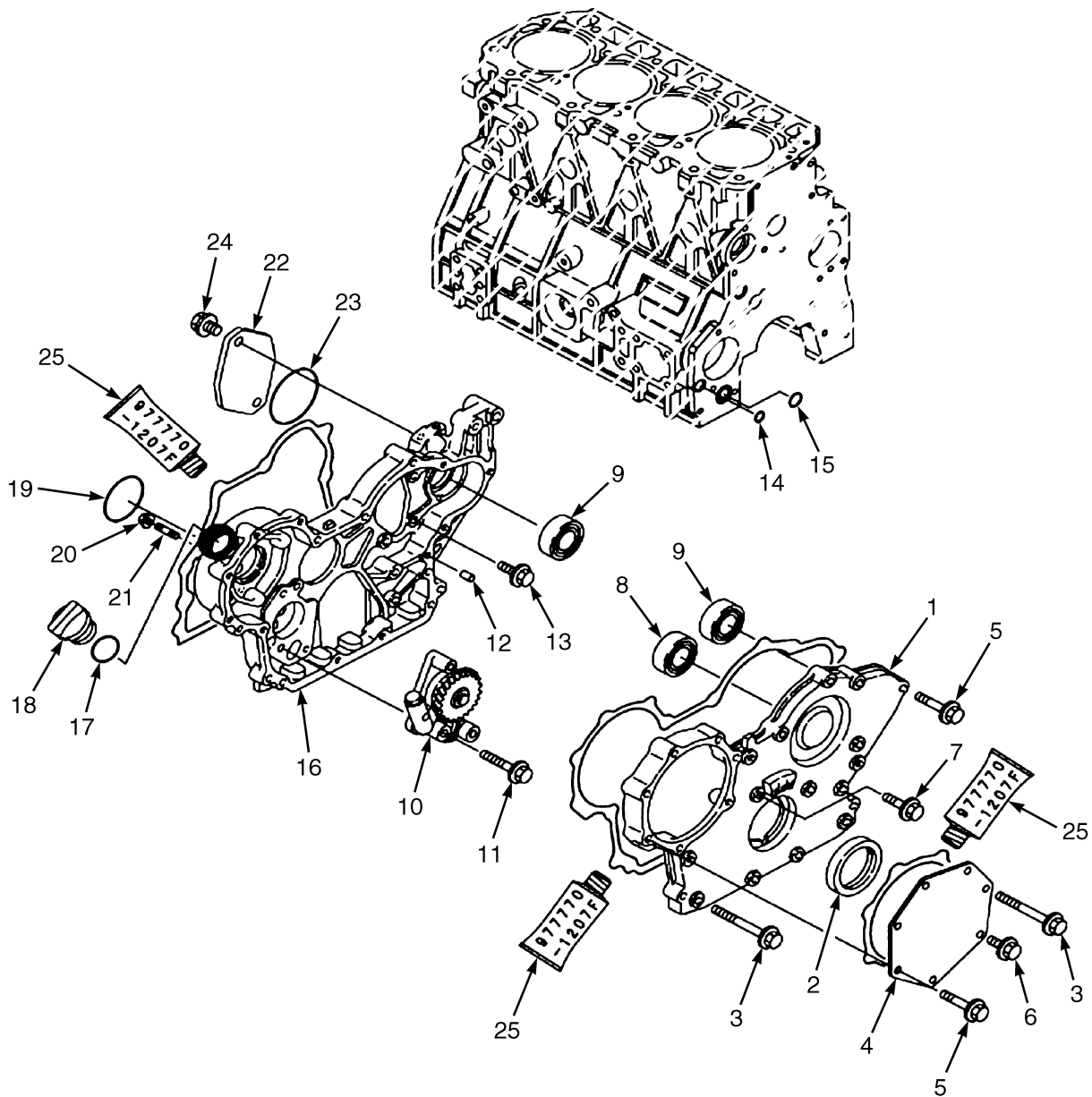
BP091020

**WATER COOLING SYSTEM
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	2080681	Water Pump	1
2	1599807	O-Ring	1
3	1599808	Cover	1
4	1599809	Gasket	1
5	1599810	Flange	1
6	1599811	Seal	1
7	2084330	Drain Plug	1
8	1599816	Bolt	2
9	1719970	Screw	6
10	2084331	Plug	1
11	1599812	Plug	1
12	1599814	Gasket	2
13	1599803	Gasket	1
14	1599579	Bolt	3
15	2084327	Fan Pulley	1
16	2107750	V-Belt	1
16	1368841	V-Belt High Speed Fan	1
17	2080678	Fan	1
18	4648640	Bolt	4
19	1597709	Gasket	1
20	1599798	Cover	1
21	1597710	Gasket	1
22	4068202	Thermostat	1
23	1599801	Bolt	2
24	1599802	Drain Plug	1
	a 2043160	Thermal Sensor	1
	a 2081274	Bracket (Harness Clamp)	1
	a 1529366	Capscrew (Harness Clamp Bracket)	1

FOOTNOTES:**a** Not Illustrated

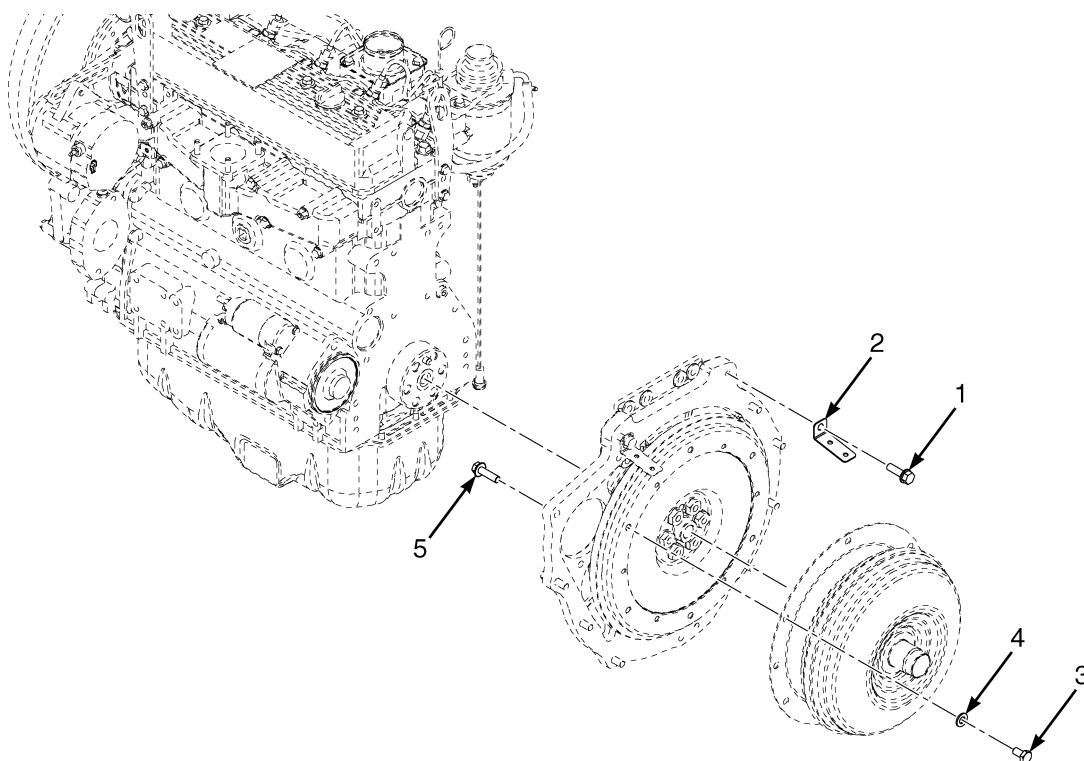
GEAR HOUSING (FIGURE 3-16) YANMAR 3.3L



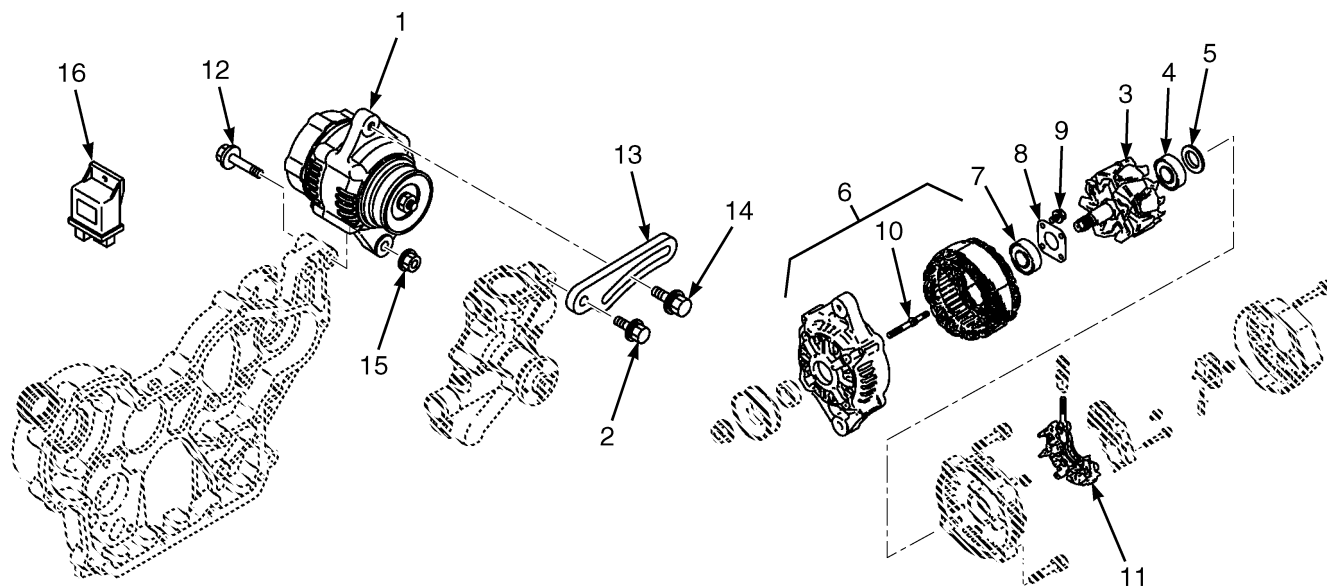
BP090971

**GEAR HOUSING
YANMAR 3.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy (3.3L)	1
1	2101708	Gear Cover Assembly	1
2	2100927	Oil Seal	1
3	1599476	Bolt	7
4	1599461	Cover	1
5	1599473	Bolt	10
6	1599470	Bolt	1
7	1599472	Bolt	1
8	2084309	Ball Bearing	1
9	2084305	Ball Bearing	2
10	1599466	Engine Oil Pump	1
11	1599475	Bolt	3
12	1599458	Pin	4
13	1599471	Bolt	3
14	1599469	O-Ring	1
15	1599468	O-Ring	1
16	2084304	Timing Gear Cover	1
17	1599464	O-Ring	1
18	1599463	Cap (Oil Fill)	1
19	1599462	O-Ring	1
20	2068378	Nut	3
21	2084306	Stud	3
22	2084307	Cover	1
23	2084308	O-Ring	1
24	2084311	Bolt	2
25	2084312	Gasket (Liquid)	1

FLYWHEEL MOUNTING HARDWARE (FIGURE 3-17)
YANMAR 3.3L

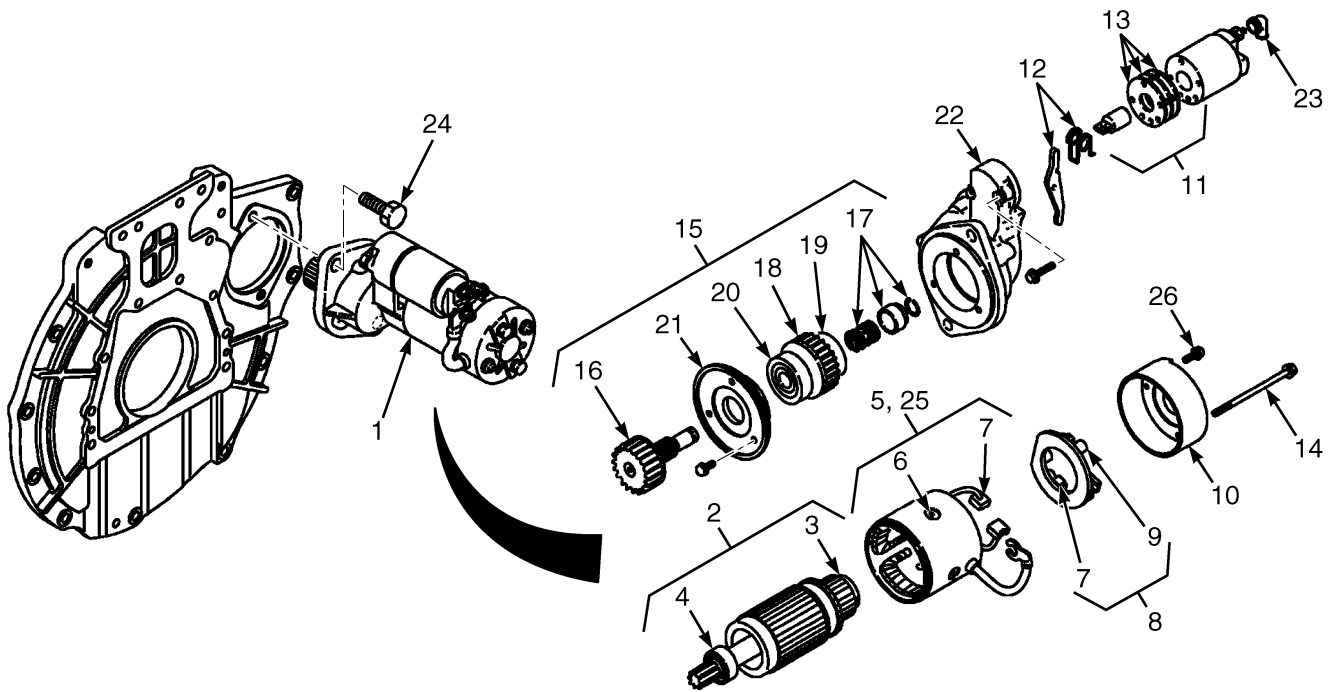
ITEM	PART NO.	DESCRIPTION	QTY
1	1586629	Capscrew	2
2	2081402	Bracket , Cable Clip	2
3	292514	Capscrew	6
4	296420	Washer	6
5	1527885	Capscrew	8

ALTERNATOR (FIGURE 3-18)
YANMAR 3.3L

BP091026

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy Yanmar 3.3L Diesel	1
1	2100632	Alternator	1
2	1599887	Bolt	1
3	1599877	Rotator Assembly	1
4	1599878	Ball Bearing	1
5	1599879	Cover	1
6	2084466	Housing	1
7	1599873	Ball Bearing	1
8	1599874	Plate	1
9	1599875	Screw	4
10	1599876	Stud	2
11	2084467	Holder	1
12	1599893	Bolt	1
13	1599895	Bracket	1
14	1599896	Bolt	1
15	1599894	Nut	1
16	2081947	Controller	1

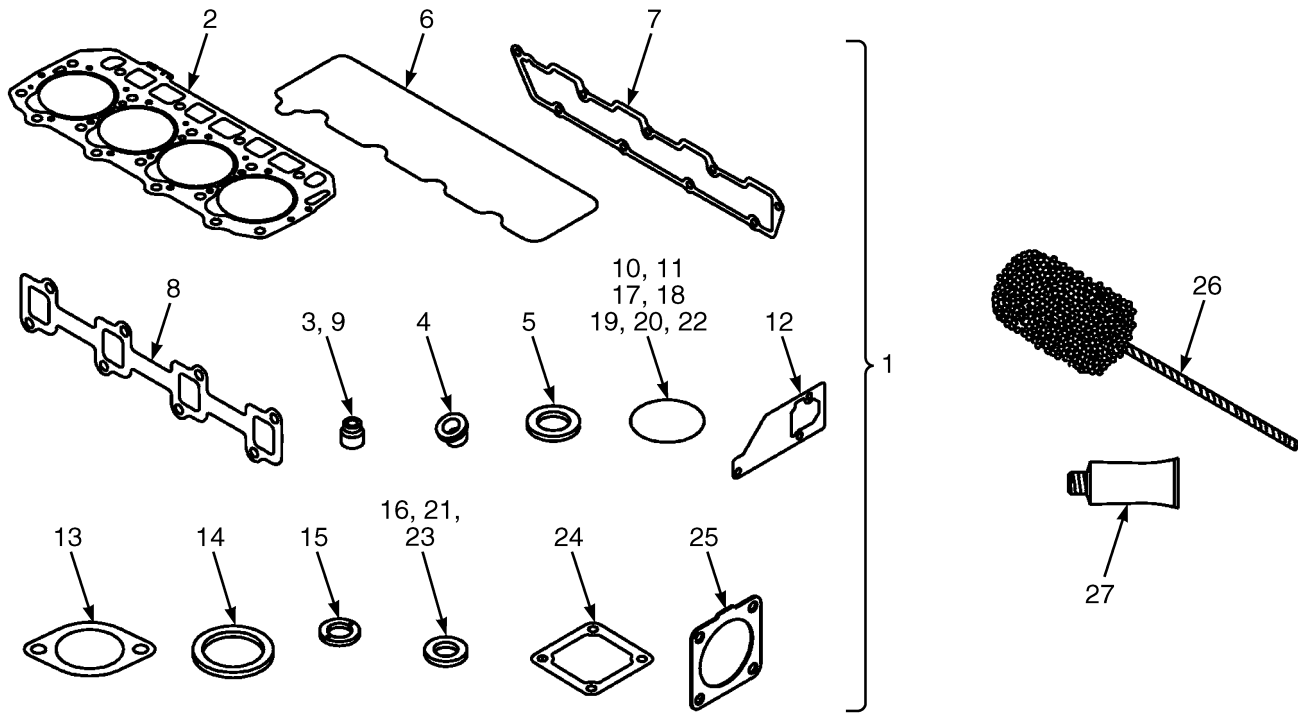
STARTER (FIGURE 3-19) YANMAR 3.3L



BP091025

ITEM	PART NO.	DESCRIPTION	QTY
	2100625	Engine Service Assy Yanmar 3.3L Diesel	1
1	1719937	Starter	1
2	1719938	Armature	1
3	1599847	Ball Bearing	1
4	1719964	Bearing	1
5	1719941	Field Coil	1
6	1599850	Screw	4
7	1599851	Brush	4
8	1719943	Brush Holder	1
9	1599853	Brush Spring	4
10	1719942	Cover	1
11	1719948	Switch	1
12	1719951	Lever	1
13	1719952	Dust Cover	1
14	1719933	Bolt	2
15	1719944	Pinion	1
16	1719947	Pinion	1
17	1719965	Stopper Set	1
18	1719945	Clutch Assy	1
19	1719946	Bearing	1
20	1719973	Ball Bearing	1
21	1719950	Retainer	1
22	1719949	Gearbox	1
23	1599868	Cover	1
24	4122595	Bolt	2
25	1719939	Yoke	1

ITEM	PART NO.	DESCRIPTION	QTY
26	1719953	Screw	2

ENGINE GASKET KIT (FIGURE 3-20)
YANMAR 3.3L

BP091027

ITEM	PART NO.	DESCRIPTION	QTY
1	2084480	Gasket Set	1
2	1599905	Cylinder Head Gasket	1
3	1599520	Seal (Intake Valve)	4
4	1599522	Protector , Nozzle	4
5	1599523	Gasket , Nozzle	8
6	1599546	Gasket , Cyl Head	1
7	1599543	Gasket , Intake Manifold	1
8	1599560	Gasket	1
9	1599519	Seal (Exhaust Valve)	4
10	1599468	O-Ring	2
11	1599469	O-Ring	1
12	1599803	Gasket , Water Pump	1
13	1597710	Gasket	1
14	1597709	Gasket	1
15	1599831	Gasket , Return	4
16	1600086	Seal	7
17	4068201	O-Ring	1
18	1599550	O-Ring	3
19	1599464	O-Ring	2
20	1599462	O-Ring	1
21	1599445	Washer	4
22	2084308	O-Ring	1
23	1599481	Oil Seal , Oil Drain Plug	1
24	1599565	Gasket	1
25	2068377	Gasket , Exhaust	1
26	1600087	Brush	1

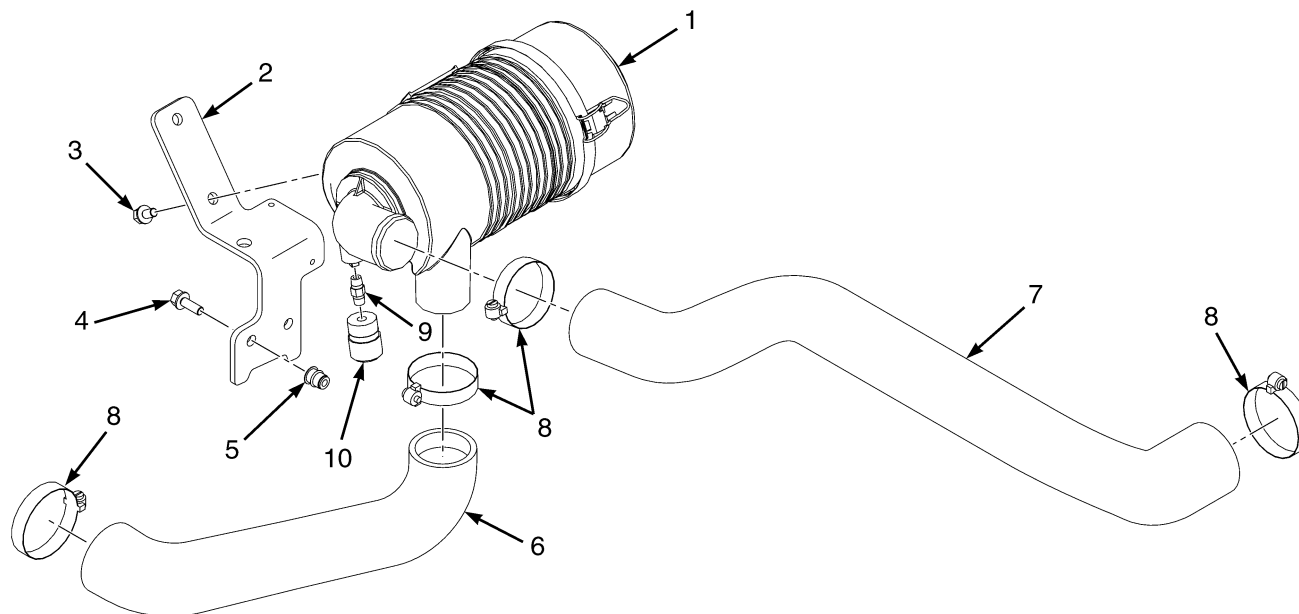
ITEM	PART NO.	DESCRIPTION	QTY
27	2084312	Gasket (Silicone Sealant)	1

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**SECTION 4
FUEL SYSTEM**

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THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS	
MONOTROL PEDAL YANMAR DIESEL	4-36
MONOTROL PEDAL YANMAR DIESEL	4-38
PSI - STANDARD PEDAL	4-20
PSI - STANDARD PEDAL	4-22
PSI - MONOTROL PEDAL	4-24
PSI - MONOTROL PEDAL	4-26
STANDARD PEDAL YANMAR DIESEL	4-32
STANDARD PEDAL YANMAR DIESEL	4-34

AIR INTAKE (FIGURE 4-1) PSI ENGINE

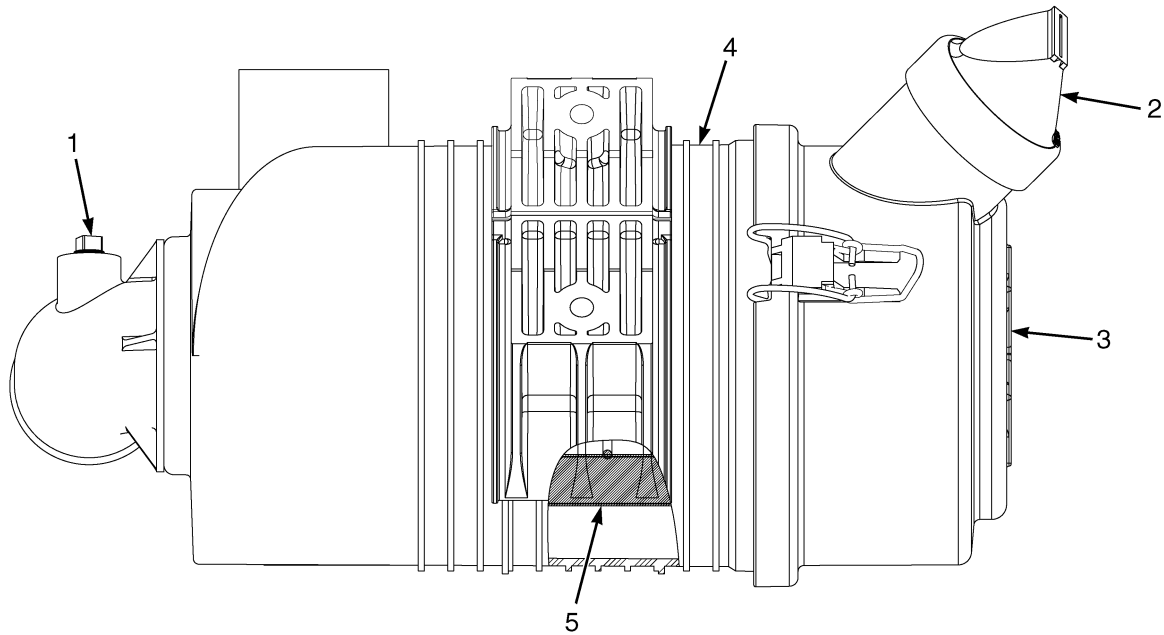


BP130549

ITEM	PART NO.	DESCRIPTION	QTY
1	4641239	Air Filter (☞ Figure 4-2).....	1
1	4641268	Air Filter (With Dual Element) (☞ Figure 4-3).....	1
2	4110388	Bracket	1
3	1613324	Capscrew	2
4	1583611	Capscrew	2
5	1530243	Insert	2
6	4637262	Hose (Dirty Intake)	1
7	4653154	Hose (Clean Intake)	1
8	112989	Hose Clamp	4
9	16150	Fitting	1
10	165991	Indicator (Restriction)	1
	a 17652	Fitting (With Silencer)	1
	a 2095889	Label (Air Filter Installation)	1
	a 4151588	Grille , Air Intake	1

FOOTNOTES:

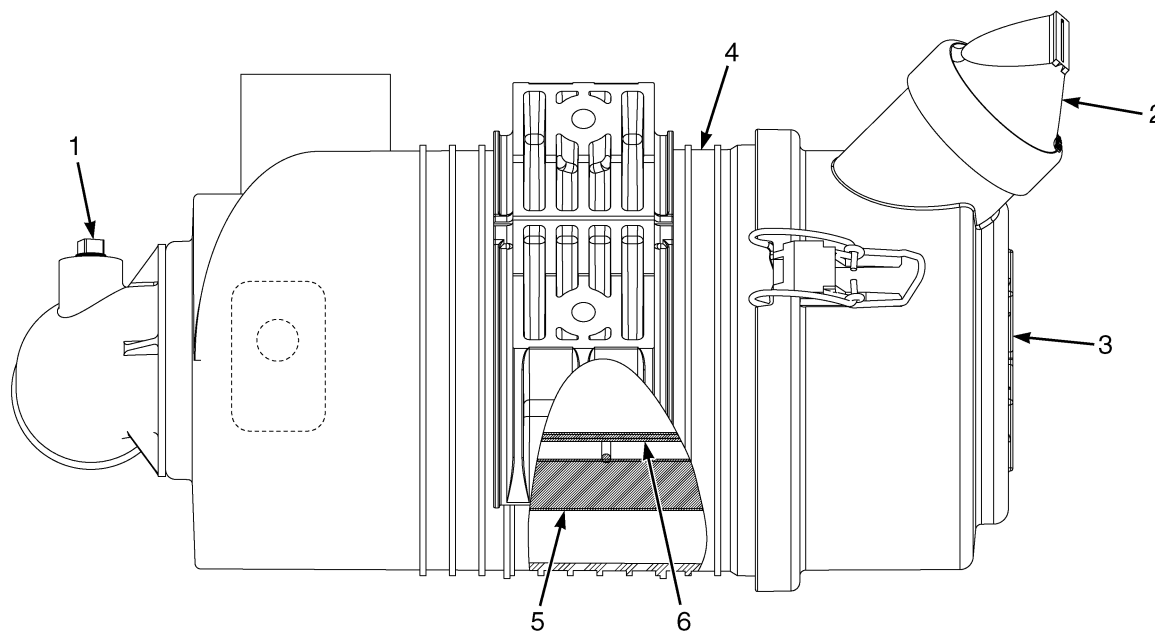
a Not Illustrated

**AIR FILTER ASSEMBLY (FIGURE 4-2)
SINGLE ELEMENT**

BP130574

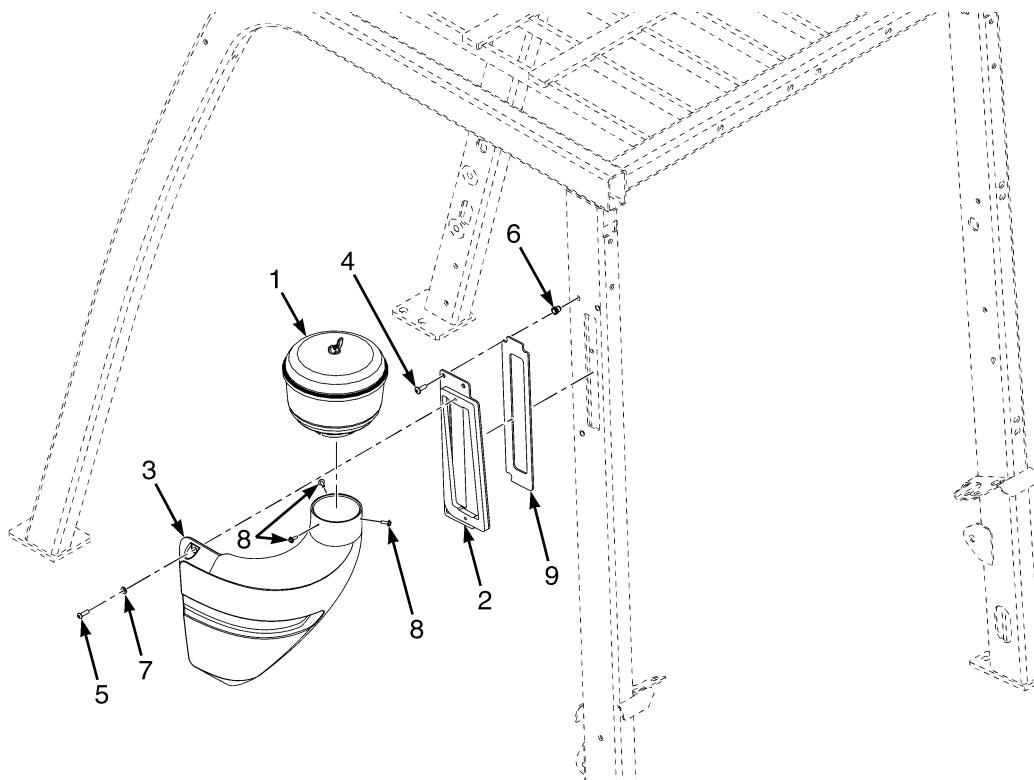
ITEM	PART NO.	DESCRIPTION	QTY
	4641239	Air Filter	1
1	1462442	Plug	1
2	1494024	Valve	1
3	4137211	Cover	1
4	4136998	Body	1
5	4137212	Filter Element	1

AIR FILTER ASSEMBLY (FIGURE 4-3) DUAL ELEMENT



BP130575

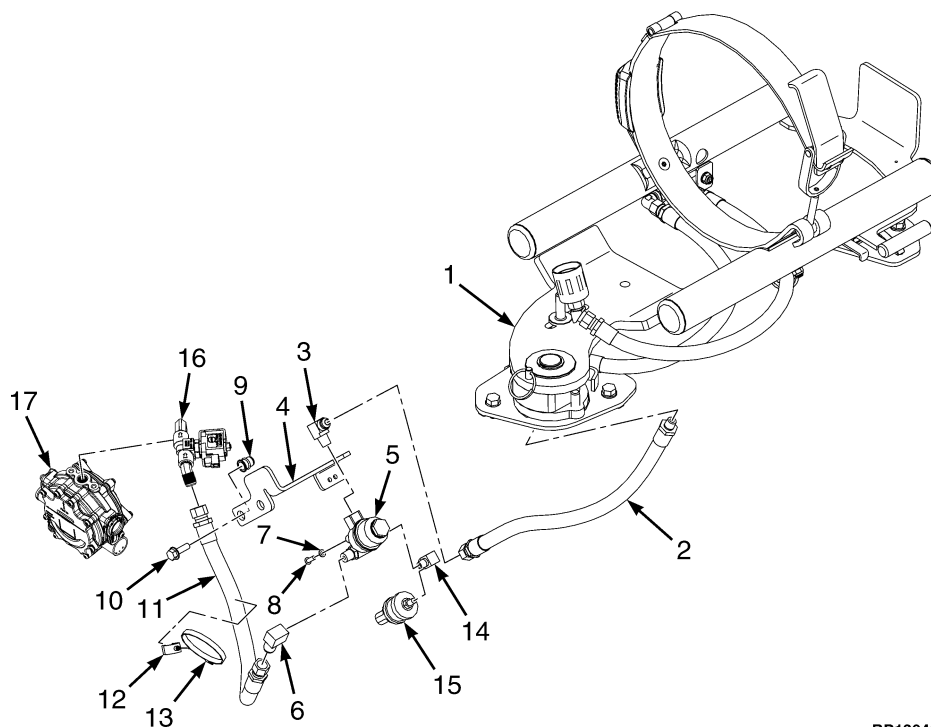
ITEM	PART NO.	DESCRIPTION	QTY
	4641268	Air Filter	1
1	1462442	Plug	1
2	1494024	Valve	1
3	4137002	Cover	1
4	4136998	Body	1
5	4642999	Filter Element	1
6	4643000	Filter Element	1

**AIR INTAKE SYSTEM (FIGURE 4-4)
PRE-CLEANER**

BP090931

ITEM	PART NO.	DESCRIPTION	QTY
1	291974	Pre-Cleaner (Assembly)	1
1	1374205	Cover	1
1	1374206	Body	1
1	1374207	Sleeve	1
1	115696	Hose Clamp	1
2	4153049	Mounting Weldment	1
3	1677793	Air Duct	1
4	4613617	Capscrew	3
5	353144	Capscrew	2
6	1531001	Insert	3
7	1506738	Washer	2
8	1677833	Screw	3
9	4148891	Gasket	1

FUEL SYSTEM (FIGURE 4-5) PSI-LPG — WITHOUT LOW FUEL SENSOR



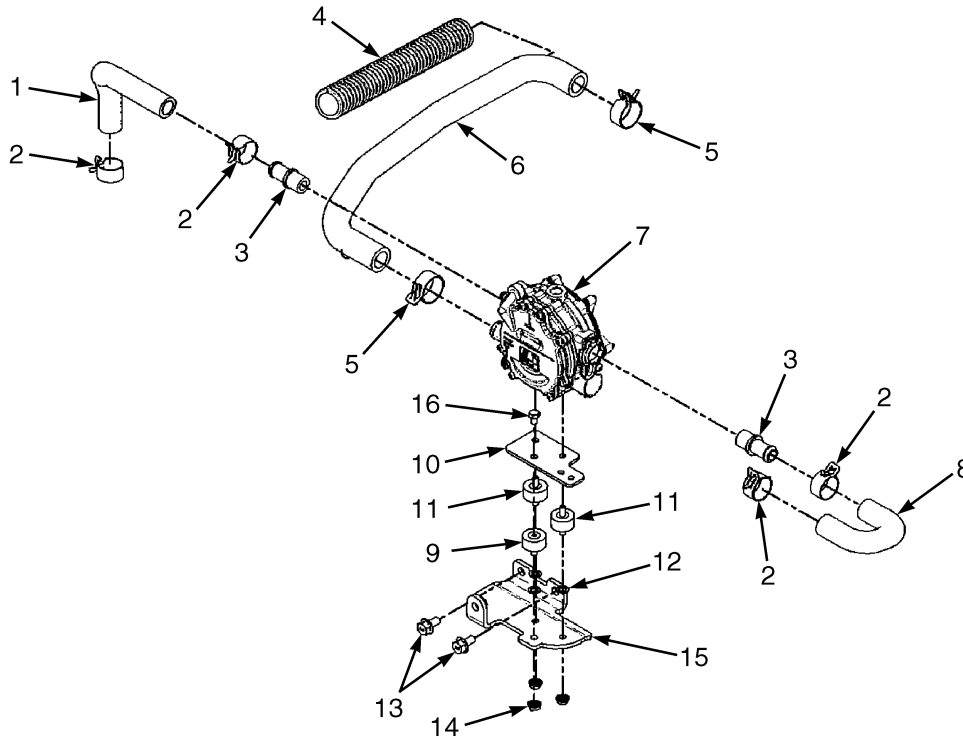
BP130485

FUEL SYSTEM
PSI-LPG – WITHOUT LOW FUEL SENSOR

ITEM	PART NO.	DESCRIPTION	QTY
1	4043982	Bracket	1
2	88791	Hose Assy	1
3	14358	Fitting	1
4	4121568	Bracket	1
5	2105803	Fuel Filter (LPG)	1
5	1689544	Kit-Filter Element	1
6	14372	Fitting	1
7	320155	Washer	2
8	296152	Capscrew	2
9	1530243	Insert	2
10	1510113	Capscrew	2
11	2090361	Hose Assy	1
12	1502059	Clamp (Swivel)	1
13	1502061	Clamp (Swivel)	1
14	16151	Fitting	1
15	1501970	Pressure Switch (Low Fuel)	1
16	4112697		
	4099352	LPG Lock-Off	1
17	4040260		
	4148661	Regulator	1
99	a 1510117	Capscrew (Fix item 1)	3
99	a 804043	Disconnect	1
99	a 2071517	Sleeve	1
99	a 101809	Relief Valve	1
99	a 17664	Fitting	1
99	a 16134	Fitting	1

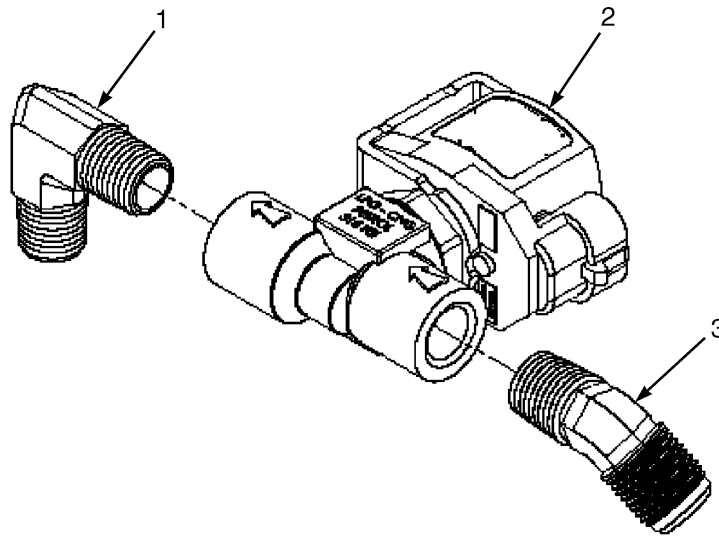
FOOTNOTES:**a** Not Illustrated

FUEL REGULATING SYSTEM (FIGURE 4-6) PSI 2.4L LPG AND 2.4L BI-FUEL



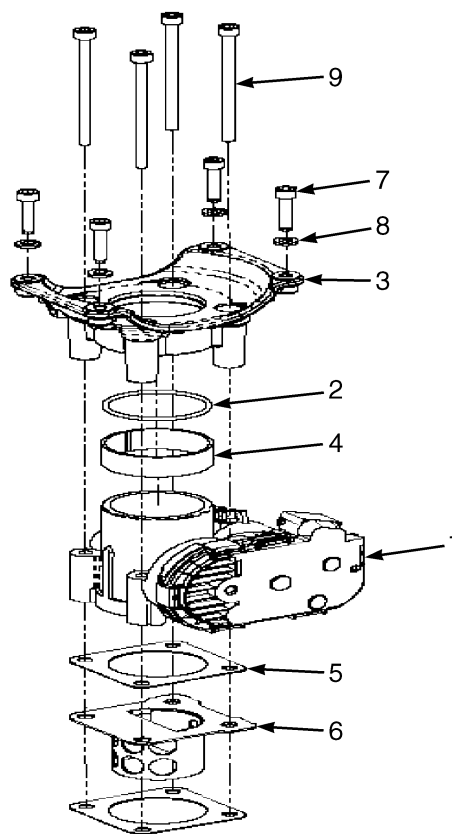
BP090986

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4153417	Hose (Coolant)	1
2	4019092	Clamp	4
3	4040259	Fitting	2
4	4153416	Loom	1
5	4019099	Clamp	2
6	4137330	Hose (Molded Fuel)	1
7	4040260	Regulator	1
7	4148667	Kit-Regulator	1
8	4137333	Hose (Coolant)	1
9	4153420	Isolator	1
10	4111007	Bracket	1
10	4646062	Base	1
11	4153419	Isolator	2
12	4153422	Washer	3
13	4109993	Capscrew	2
14	1307884	Nut	3
15	4137328	Bracket	1
16	4153421	Bolt	1

LPG LOCK-OFF (FIGURE 4-7)
PSI 2.4L

BP090714

ITEM	PART NO.	DESCRIPTION	QTY
	4639192	Engine Assy-LPG (Non-Certified)	1
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	1
1	4019019	Fitting	1
2	4112697		
	4099352	LPG Lock-Off	1
3	4112698	Fitting	1

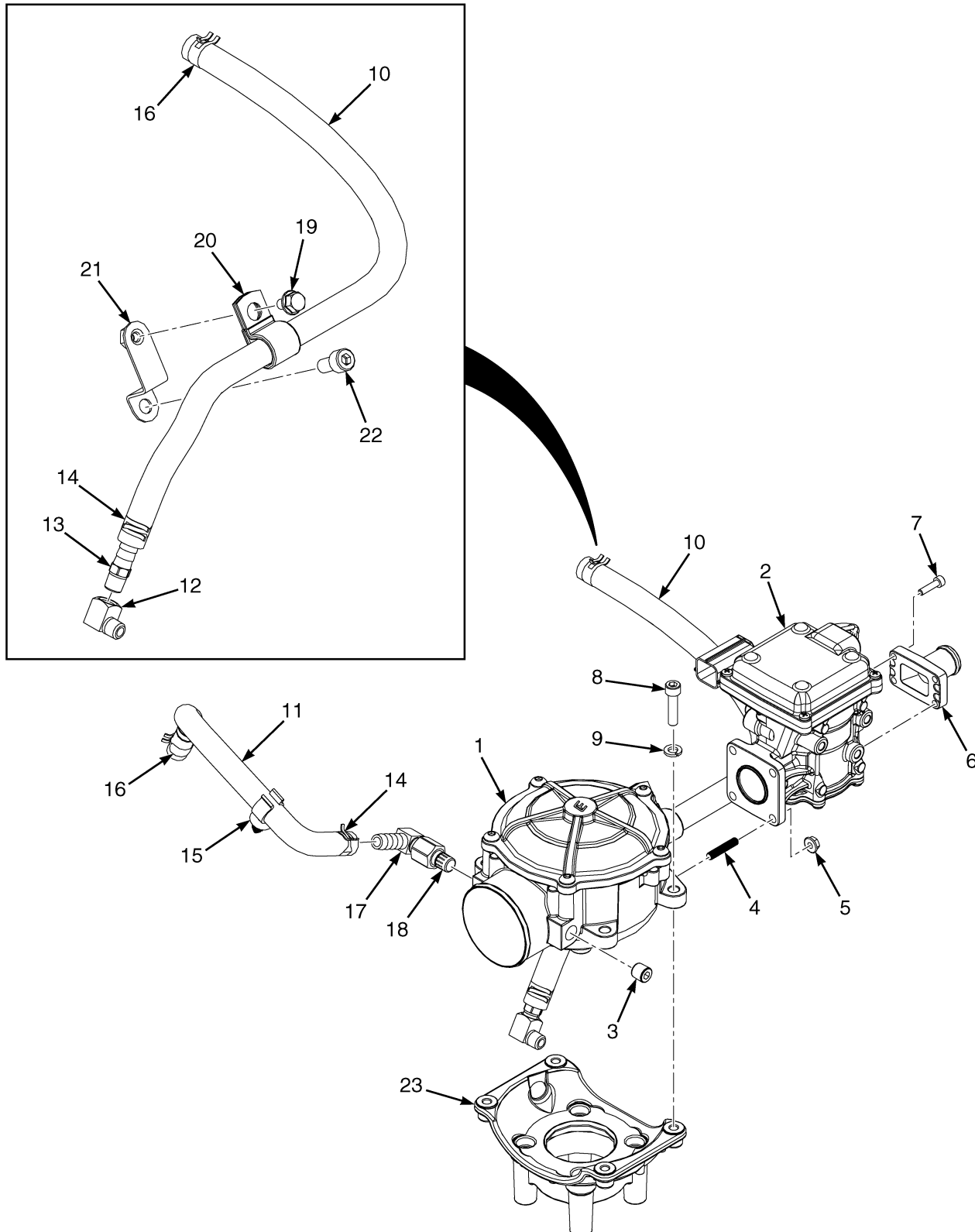
THROTTLE BODY (FIGURE 4-8)
PSI 2.4L

BP090710

THROTTLE BODY
PSI 2.4L**KEY:****A: LPG Engine****B: Bi-Fuel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4639192	Engine Assy-LPG (Non-Certified)	1	..
	4638138	Engine Assy-Bi-Fuel (Non-Certified with Cab Heater)	..	1
1	4110059	Throttle Body	1	..
2	4110060	O-Ring	1	..
3	4110061	Adapter	1	..
4	4110062	Spacer	1	..
5	4110063	Gasket (Throttle Body)	2	..
6	4137336	Baffle	1	..
7	4110065	Bolt	4	..
8	4110066	Washer	4	..
9	4137337	Capscrew	4	..

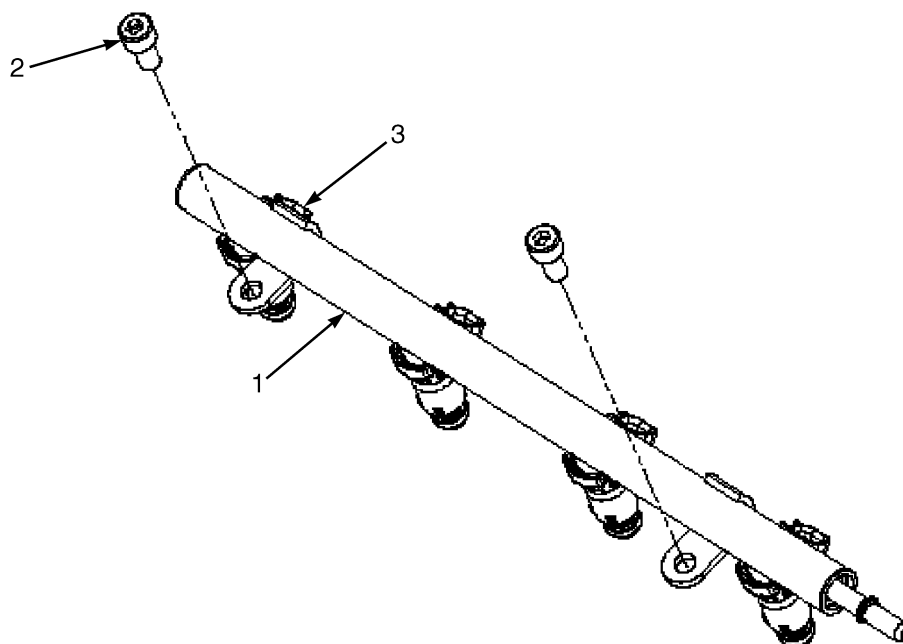
MIXER/EPR AND PCV AIR HOSES (FIGURE 4-9) PSI 2.4L LPG AND 2.4L BI-FUEL



BP130569

MIXER/EPR AND PCV AIR HOSES
PSI 2.4L LPG AND 2.4L BI-FUEL**KEY:****A: With LPG Engine****B: With BI- Fuel Engine**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4639192	Engine Assy-LPG (Non-Certified)	1	..
	4638138	Engine Assy-BI-Fuel (Non-Certified with Cab Heater)	..	1
1	4111124	Mixer-LPG	1	1
1	4111125	Kit-Repair	1	1
2	4019119	Regulator	1	1
3	4019120	Plug	1	1
4	4019121	Stud	4	4
5	1565407	Nut	4	4
6	4019118	Fitting	1	1
7	292672	Capscrew	4	4
8	4110065	Bolt	4	4
9	4110066	Washer	4	4
10	4116720	Hose (PCV Foul Air)	1	1
11	4137306	Hose (PCV Fresh Air)	1	1
12	4110072	Fitting	1	1
13	4110071	Fitting	1	1
14	4019090	Clamp	2	2
15	4153432	Clip	1	1
16	4137305	Clamp	2	2
17	4110078	Fitting	1	1
18	4110079	Fitting	1	1
19	4019051	Bolt	1	1
20	128408	Clamp	1	1
21	4116715	Bracket	1	1
22	4110075	Bolt	1	1
23		Throttle Body Assembly (Figure 4-8).....	1	1

FUEL RAIL (FIGURE 4-10)
PSI 2.4L BI-FUEL

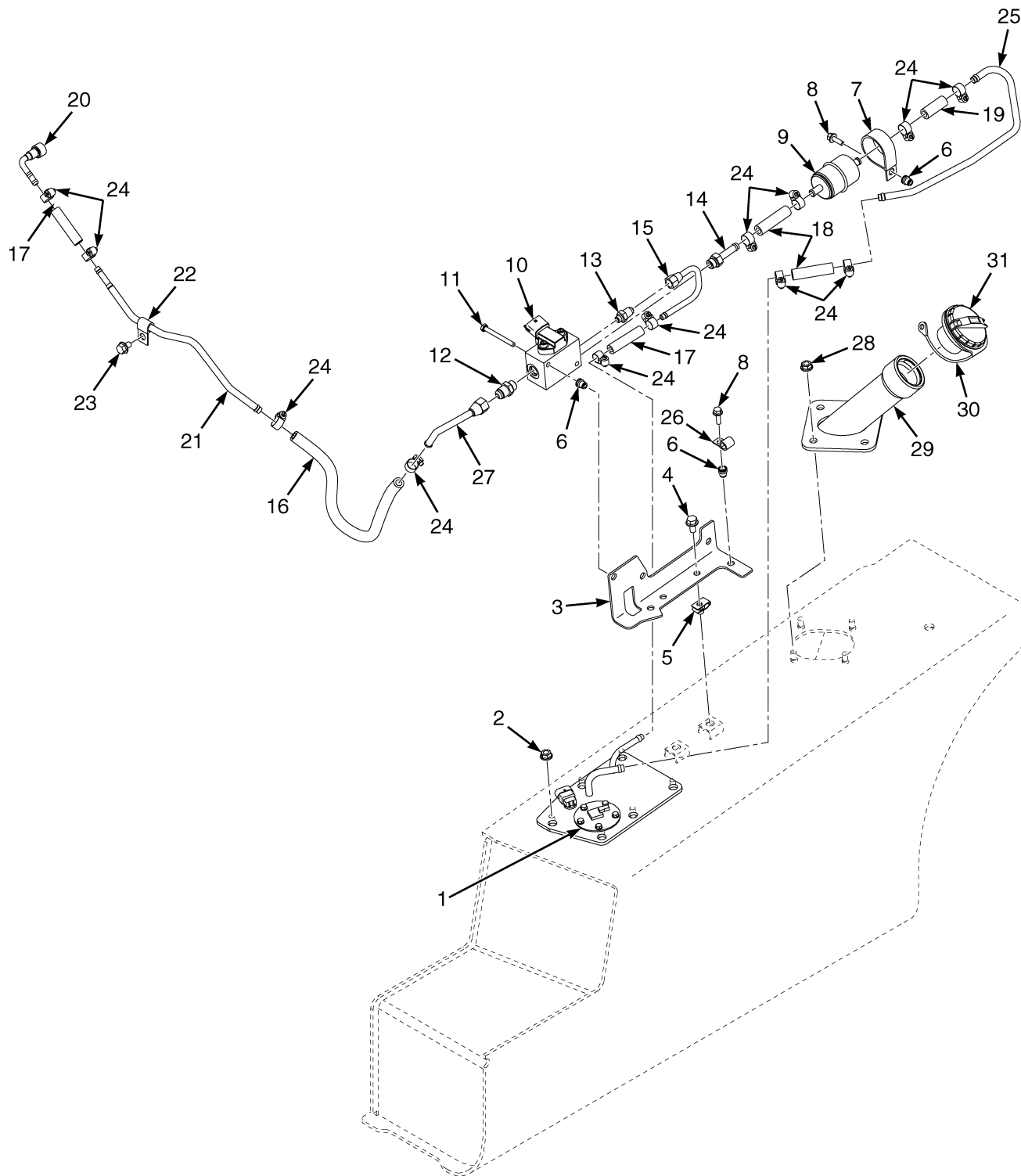
BP090729

ITEM	PART NO.	DESCRIPTION	QTY
	4638137	Engine Assy-BI-Fuel (Certified with Cab Heater)	1
1	4111631	Fuel Rail	1
2	4110075	Bolt	2
3	4111190	Injector	4

NOTES

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FUEL SYSTEM (FIGURE 4-11) PSI 2.4L BI-FUEL



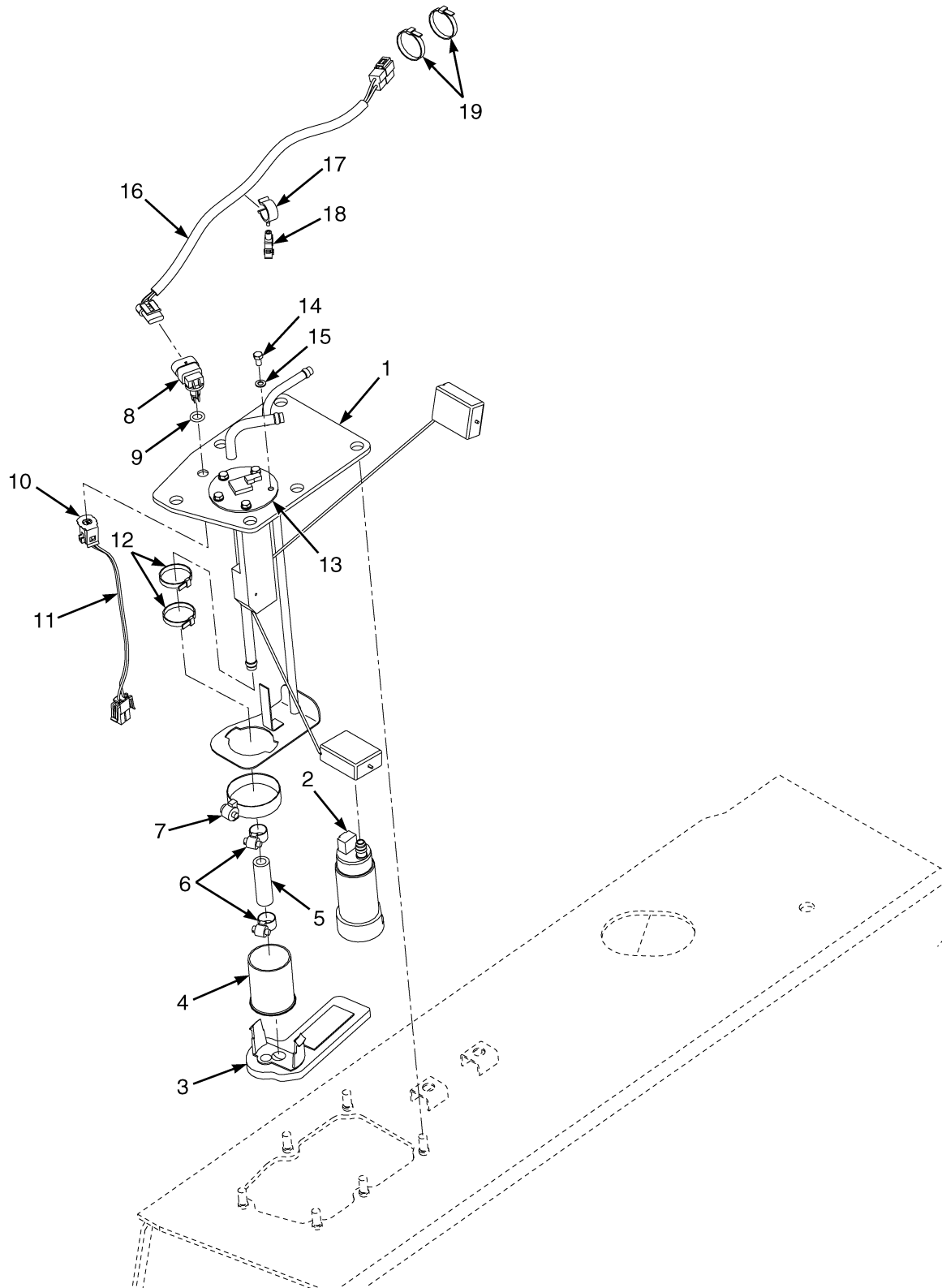
BP130582

FUEL SYSTEM
PSI 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	4167403	Fuel Sender (Gas)	1
1	a 4172858	Fuel Sender , Gas ( Figure 4-12).....	1
2	1382472		
	1502543	Nut	6
3	4113784	Bracket	1
4	4109993		
	1527879	Capscrew	2
5	1480237	Nut , Foldover	2
6	1531558	Insert	4
7	1316496	Clamp	1
8	1527877	Capscrew	2
9	1553541	Fuel Filter	1
10	4047012	Manifold Assy	1
11	292507	Capscrew	2
12	4627283	Fitting	1
13	4627282	Fitting	1
14	222492	Fitting	1
15	4154791	Tube Assy	1
16	2076026	Hose	1
17	1543900	Hose	2
18	2066137	Hose	2
19	4644610	Hose	1
20	1543933	Fitting	1
21	4154792	Tube Assy	1
22	164488	Clamp	1
23	1529366	Capscrew	1
24	168718	Clamp	12
25		Tube Assembly	1
26	132131	Clamp	1
27	4159793	Tube Assy	1
28	4175771	Filler Neck	1
29	1382472		
	1502543	Nut	4
30	325549	Shim (0.020 in.)	AR
30	2021685	Gasket	1
31	1579677	Fuel Cap (Lockable Version)	1

FOOTNOTES:**a** Manufacturing Option

FUEL SENDER AND ATTACHING PARTS (FIGURE 4-12) PSI 2.4L BI-FUEL

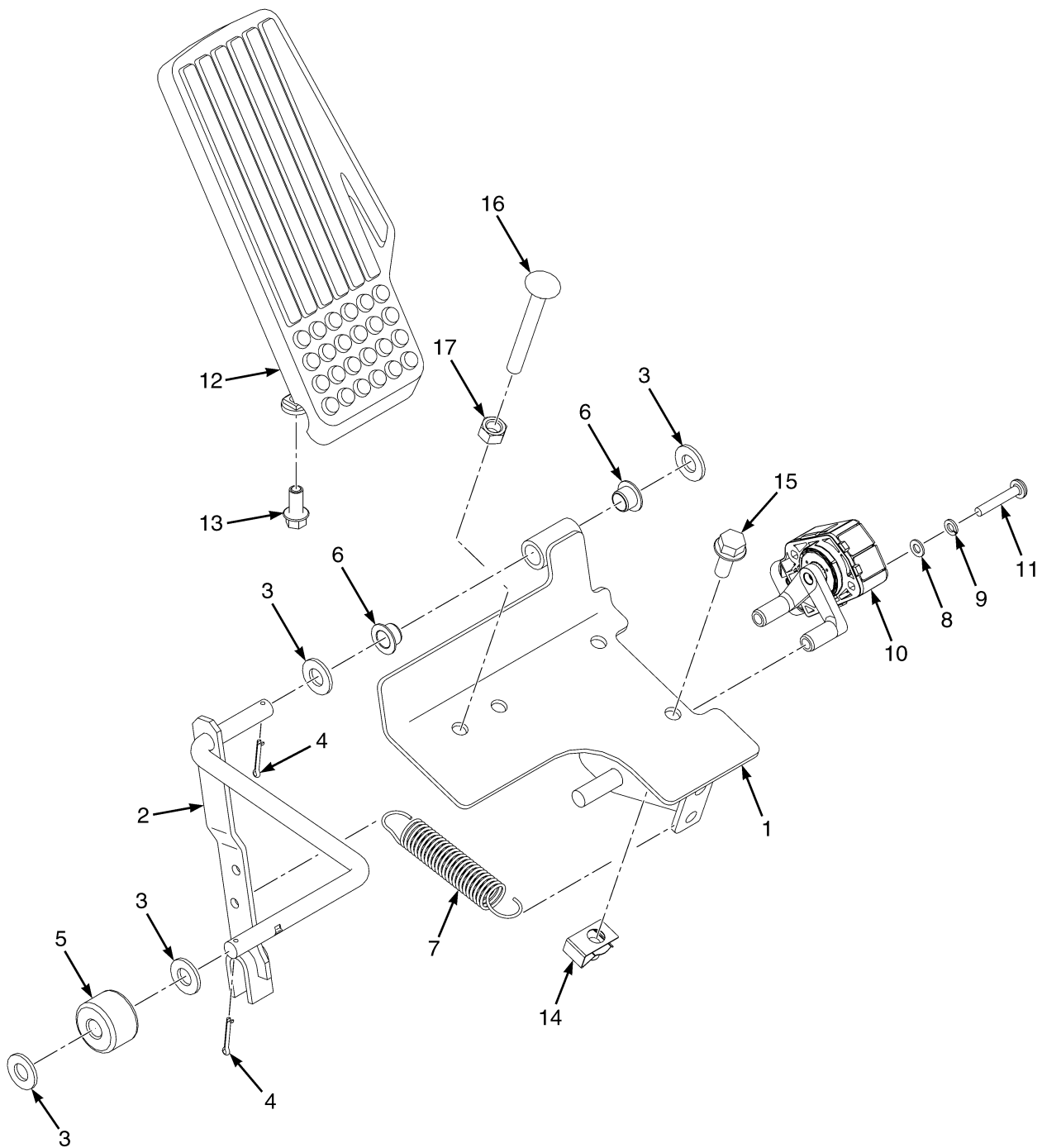


BP130583

FUEL SENDER AND ATTACHING PARTS
PSI 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
	4167403	Fuel Sender (Gas)	1
1		Fuel Tube and Mounting Plate	1
2	1634455	Fuel Pump	1
3	1634456	Strainer	1
4	1644624	Isolator	1
5	2089368	Hose	1
6	168718	Clamp	2
7	369804	Clamp	1
8	1371149	Connector	1
9	1330325	O-Ring	1
10	1330326	Nut	1
11	4168115	Wire Harness (Fuel Pump)	1
12	114312	Strap Clamp	2
13	2080643	Sender	1
14	2021687	Bolt	5
15	320155	Washer	5
16	4655548	Jumper (Fuel Sender Harness)	1
17	1561871	Clamp (Swivel)	1
18	4077618	Clamp (Adjustable)	1
19	137852	Strap Clamp	2

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-13) PSI — STANDARD PEDAL

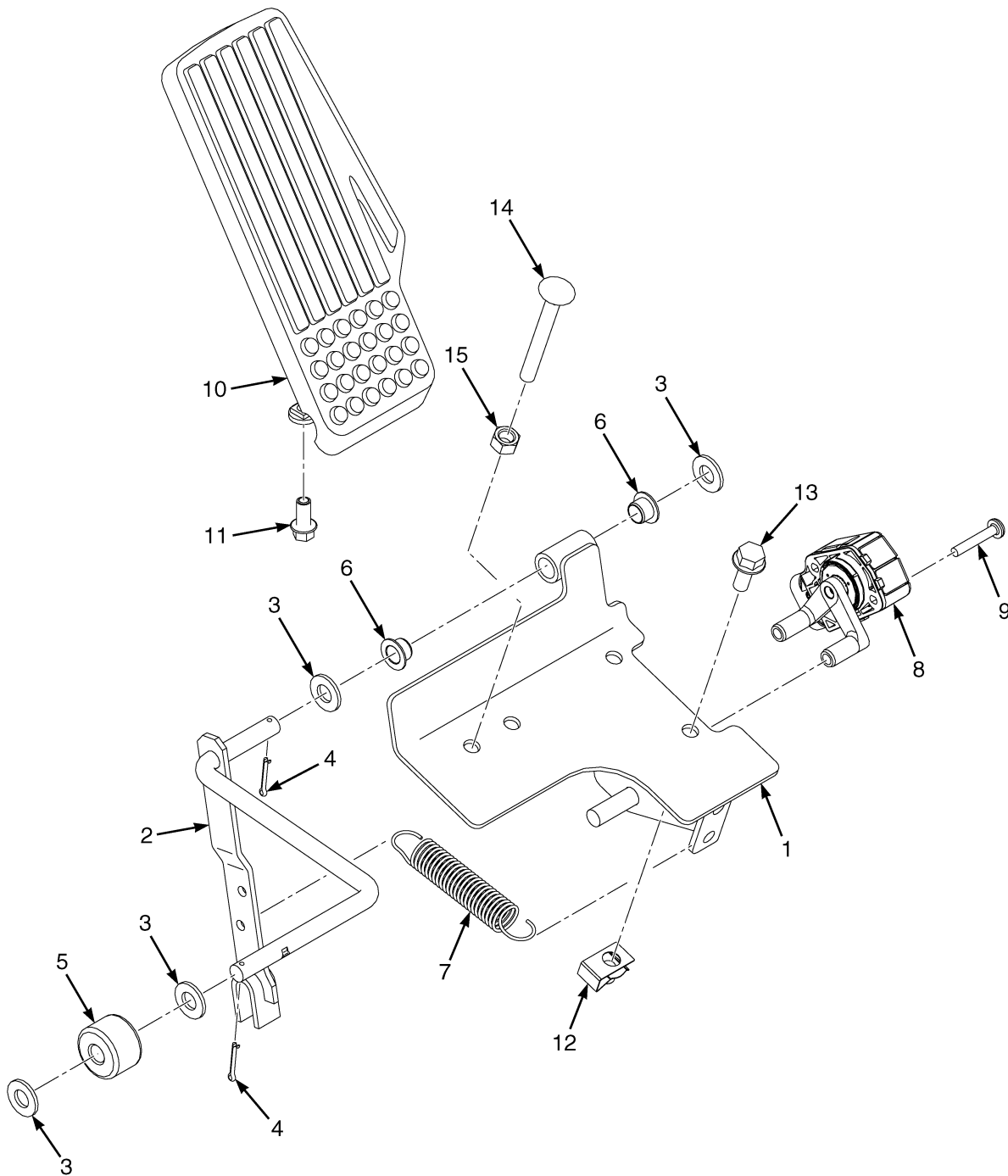


BP130560

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
PSI – STANDARD PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
1	4114974	Bracket	1
2	4117525	Lever	1
3	320159	Washer	4
4	2027673	Pin	2
5	2047782	Roller	1
6	2021809	Bushing	2
7	2082033	Spring	2
8	320155	Washer	2
9	292679	Washer	2
10	4114979	Sensor	1
11	302038	Screw	2
12	2027337	Pedal	1
13	1527876	Capscrew	2
14	1398062	Nut (Fold Over)	2
15	1527880	Capscrew	2
16	1669114	Bolt	1
17	2022719	Nut	1

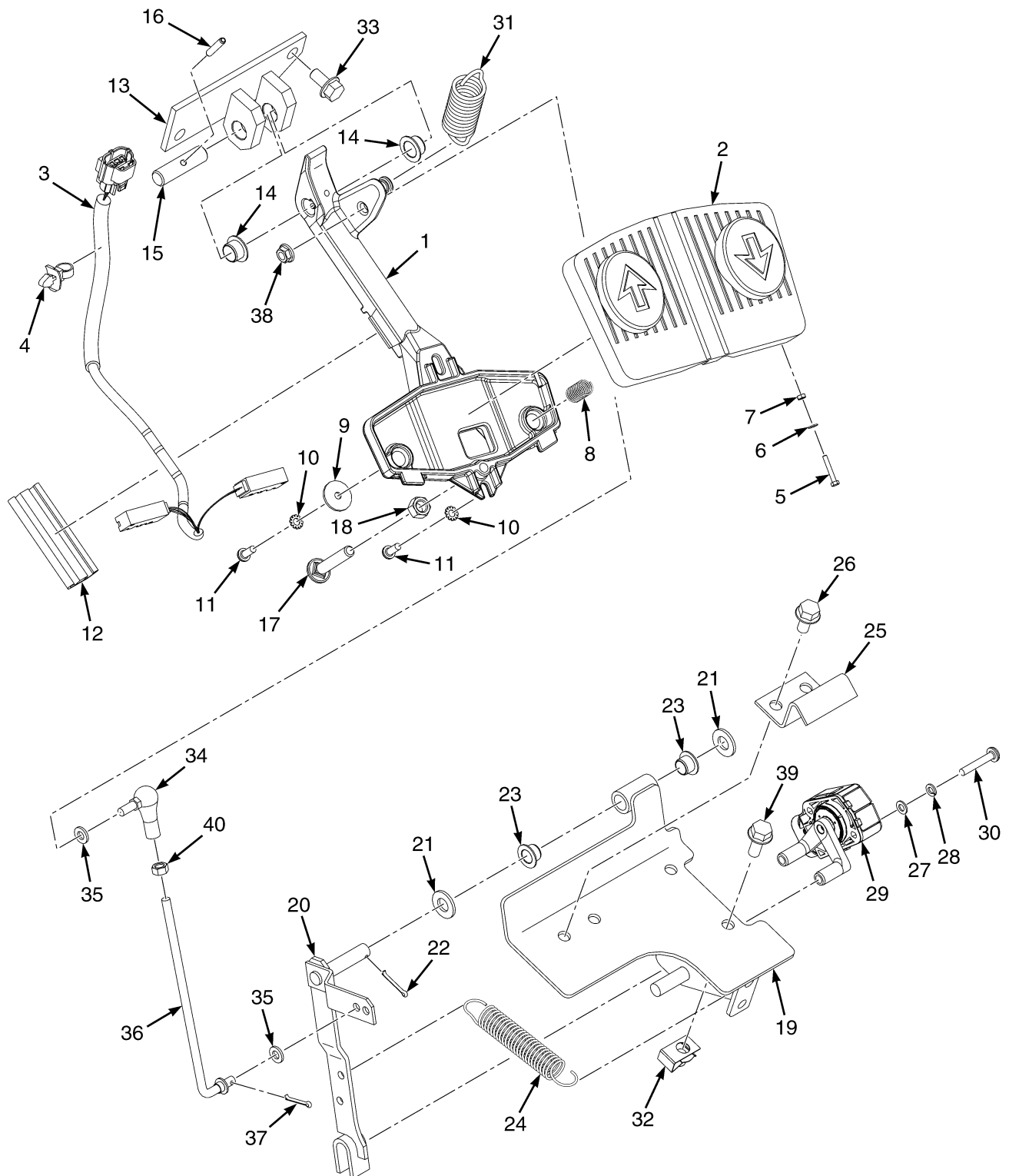
THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-14) PSI — STANDARD PEDAL



BP130587

ITEM	PART NO.	DESCRIPTION	QTY
	4166596	Lever , Accelerator Assembly	1
	4166598	Accelerator Pedal Assembly	1
1	4166603	Bracket	1
2	4166600	Lever	1
3	320159	Washer	4
4	2027673	Pin	2
5	2047782	Roller	1
6	2021809	Bushing	2
7	2082033	Spring	2
8	4114979	Sensor	1
9	302038	Screw	2
10	2027337	Pedal	1
11	1527876	Capscrew	2
12	1398062	Nut (Fold Over)	2
13	1527880	Capscrew	2
14	1669114	Bolt	1
15	2022719	Nut	1

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-15) PSI — MONOTROL PEDAL

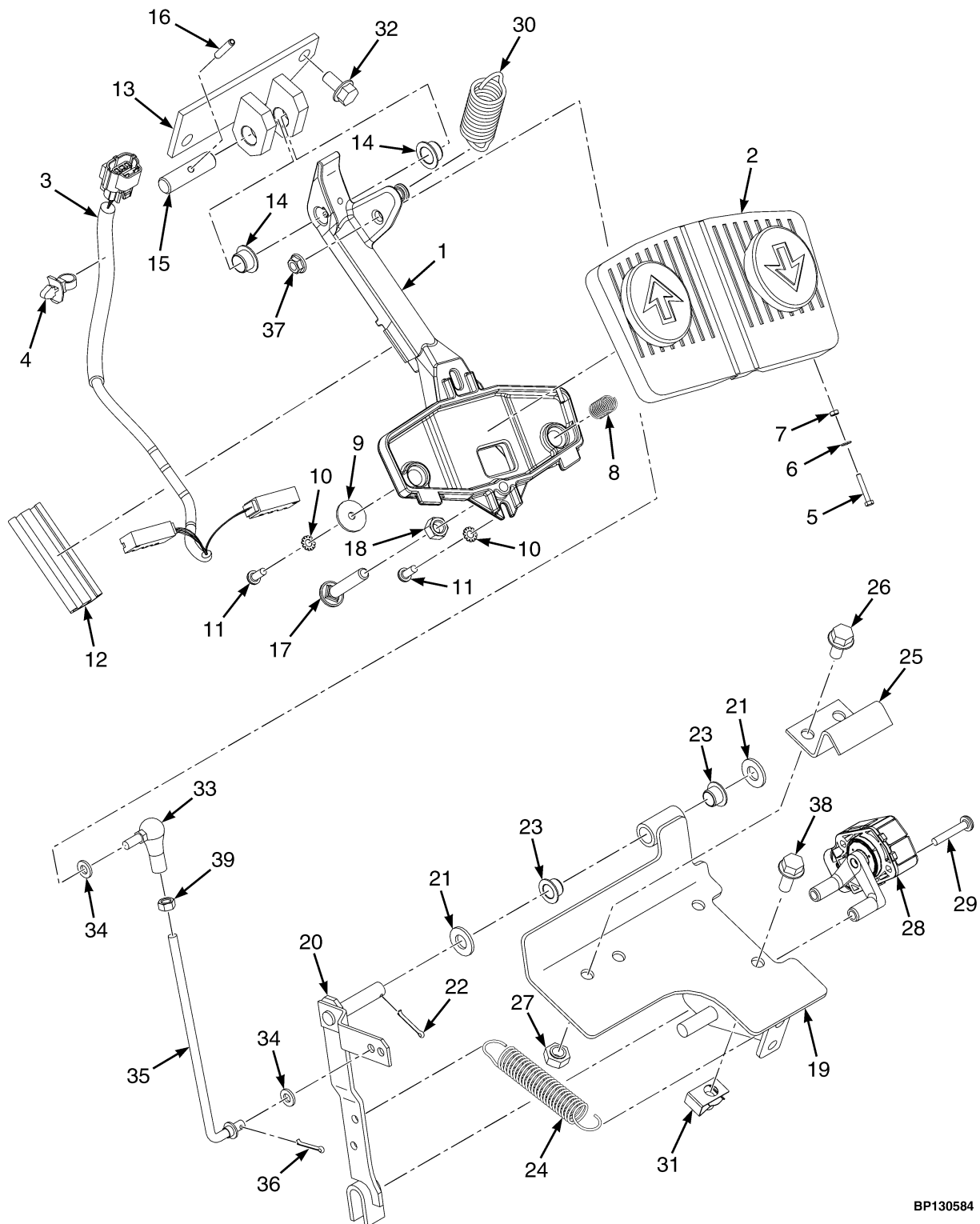


BP130561

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
PSI – MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	1615251	Monotrol Pedal Assembly	1
1	1556829	Bracket (Pedal)	1
2	1340470	Pad	1
3	2080783	Wire Harness	1
4	2081255	Clip	1
5	302231	Capscrew	4
6	296375	Washer	4
7	292665	Nut	4
8	325699	Spring	2
9	362036	Washer	2
10	15931	Lockwasher	4
11	16708	Screw	4
12	1539418	Clip	1
13	2083605	Bracket	1
14	2027716	Bushing	2
15	2083606	Shaft	1
16	302437	Roll Pin	1
17	2030158	Square Neck Cup	1
18	2022719	Nut	1
19	4114974	Bracket	1
20	4117526	Lever	1
21	320159	Washer	2
22	2027673	Pin	1
23	2021809	Bushing	2
24	2082033	Spring	2
25	4633511	Stop	1
26	4109993		
	1527879	Capscrew	2
26	2079533	Capscrew , M8x1.25x16 (Optional)	2
27	320155	Washer	2
28	292679	Washer	2
29	4114979	Sensor	1
30	302038	Screw	2
31	2099870	Spring	1
32	1398062	Nut (Fold Over)	2
33	4109993		
	1527879	Capscrew	2
34	2027949	Ball Joint	1
35	4093489		
	320156	Washer	2
36	2083607	Throttle Link	1
37	2027673	Pin	1
38	1307884		
	1514429	Nut	1
39	1527880	Capscrew	2
40	136687	Nut	1

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-16) PSI — MONOTROL PEDAL

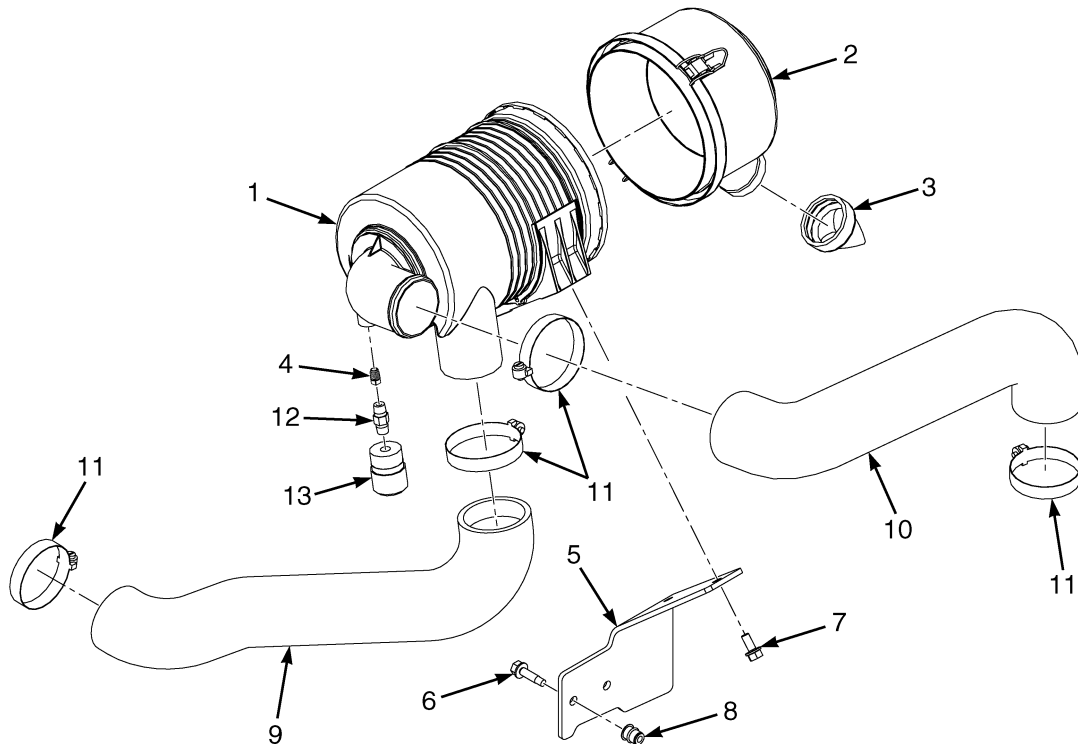


BP130584

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
PSI – MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	1615251	Monotrol Pedal Assembly	1
1	1556829	Bracket (Pedal)	1
2	1340470	Pad	1
3	2080783	Wire Harness	1
4	2081255	Clip	1
5	302231	Capscrew	4
6	296375	Washer	4
7	292665	Nut	4
8	325699	Spring	2
9	362036	Washer	2
10	15931	Lockwasher	4
11	16708	Screw	4
12	1539418	Clip	1
13	2083605	Bracket	1
14	2027716	Bushing	2
15	2083606	Shaft	1
16	302437	Roll Pin	1
17	2030158	Square Neck Cup	1
18	2022719	Nut	1
19	4166603	Bracket	1
20		Lever	1
21	320159	Washer	2
22	2027673	Pin	1
23	2021809	Bushing	2
24	2082033	Spring	2
25	4633511	Stop	1
26	4109993		
	1527879	Capscrew	2
26	2079533	Capscrew , M8x1.25x16 (Optional)	2
27	2066599	Nut	2
28	4114979	Sensor	1
29	302038	Screw	2
30	2099870	Spring	1
31	1398062	Nut (Fold Over)	2
32	4109993		
	1527879	Capscrew	2
33	2027949	Ball Joint	1
34	4093489		
	320156	Washer	2
35	2083607	Throttle Link	1
36	2027673	Pin	1
37	1307884		
	1514429	Nut	1
38	1527880	Capscrew	2
39	136687	Nut	1

AIR INTAKE SYSTEM (FIGURE 4-17) WITHOUT SILENCER — YANMAR 3.3L, DIESEL

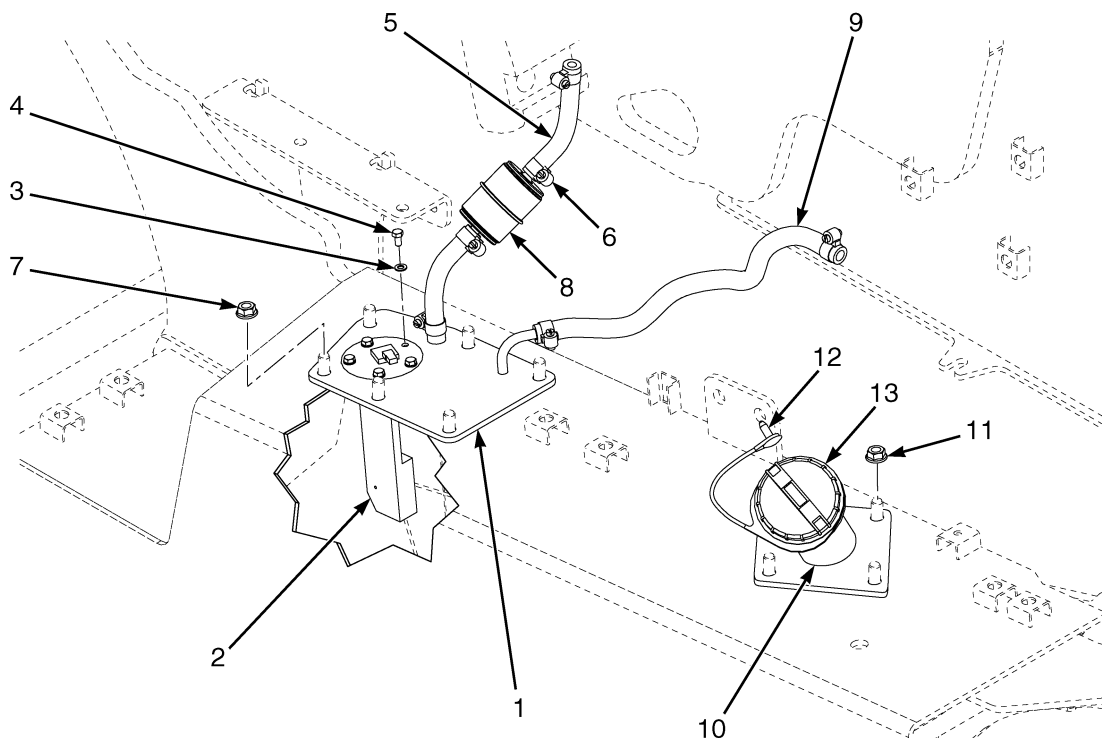


BP130550

ITEM	PART NO.	DESCRIPTION	QTY
1	4641251	Air Filter (Assembly)	1
	4641272	Air Filter (Dual Filter Assembly)	1
1	4137006	Body (Air Filter Body)	1
1	a 4643493	Filter Element	1
1	a 4643003	Filter Element (Used w/ Dual Element)	1
2	4137007	Cover (Remove to change filter)	1
3	374923	Valve	1
4	1462442	Plug (Without Indicator)	1
5	4121433	Bracket	1
6	1583611	Capscrew	2
7	1608654	Capscrew	2
8	1530243	Insert	2
9	4641162	Hose (Dirty Air)	1
10	4641167	Hose (Clean Air)	1
11	112989	Hose Clamp	4
12	16150	Fitting	1
13	165991	Indicator (Restriction)	1

FOOTNOTES:

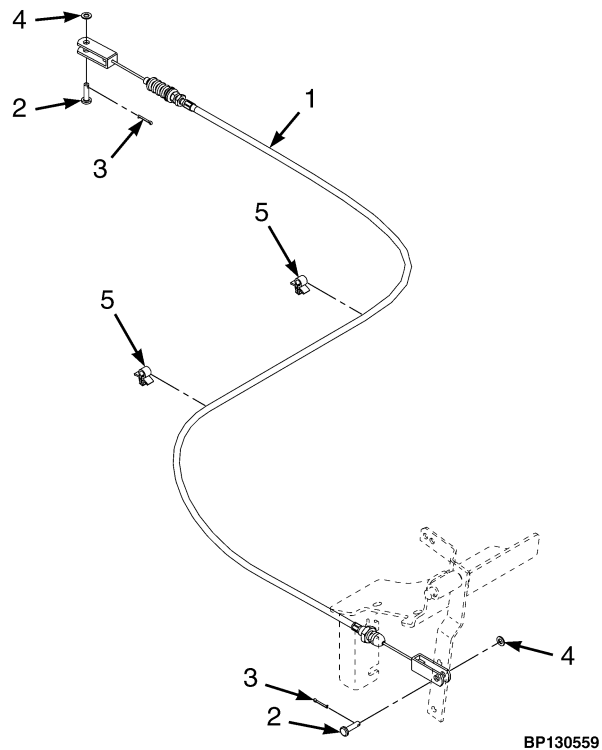
a Not Illustrated

FUEL SYSTEM (FIGURE 4-18)
YANMAR 3.3L

BP001004

ITEM	PART NO.	DESCRIPTION	QTY
1	4167743	Cover	1
2	2080643	Sender	1
3	320155	Washer	5
4	2021687	Bolt	5
5	193656	Hose	1
6	168718	Clamp	6
7	4382472		
	1502543	Nut	6
8	4617767	Fuel Filter	1
9	1610852	Hose	2
10	4167745	Filler Neck	1
10	4175771	Filler Neck	1
11	4382472		
	1502543	Nut	4
12	1379945	Fastener	1
13	4122098	Fuel Cap	1
13	2081840	Fuel Cap	1
13	a 2021683	Gasket	1
13	1579677	Fuel Cap (Lockable Version)	1
13	a 2021685	Gasket (Locking Cap)	1
	a 1331037	Plug	1

FOOTNOTES:**a** Not Illustrated

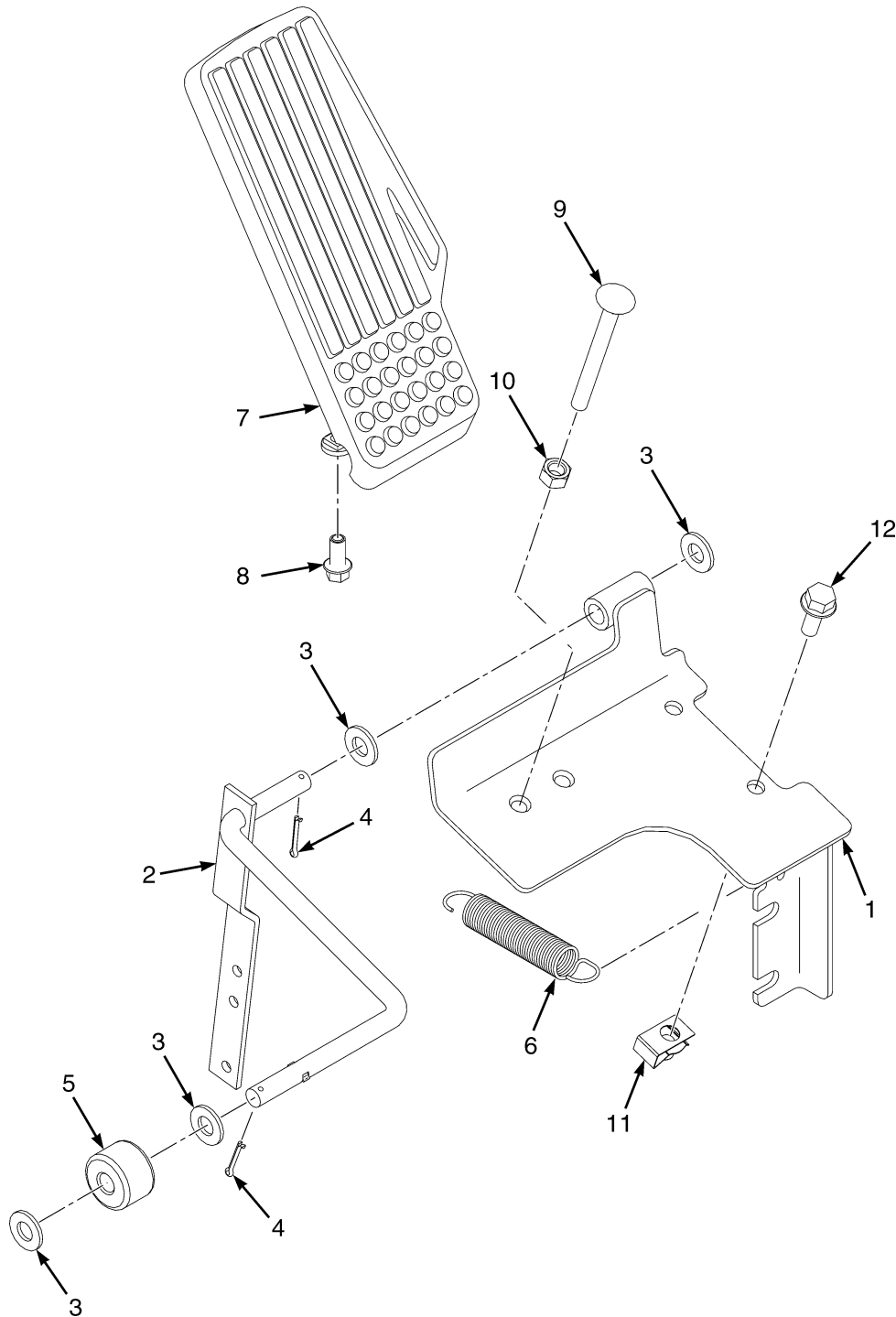
THROTTLE CABLE (FIGURE 4-19)
YANMAR**KEY:****A: Without Speed Limit****B: With Speed Limit**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2080619	Throttle Cable	1	..
1	2089928	Cable , Throttle	..	1
2	2022509	Pin	2	2
3	2027998	Cotter Pin	2	1
4	320155	Washer	2	1
5	2080187	Clip	2	2

NOTES

[illegible]

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-20) STANDARD PEDAL YANMAR DIESEL

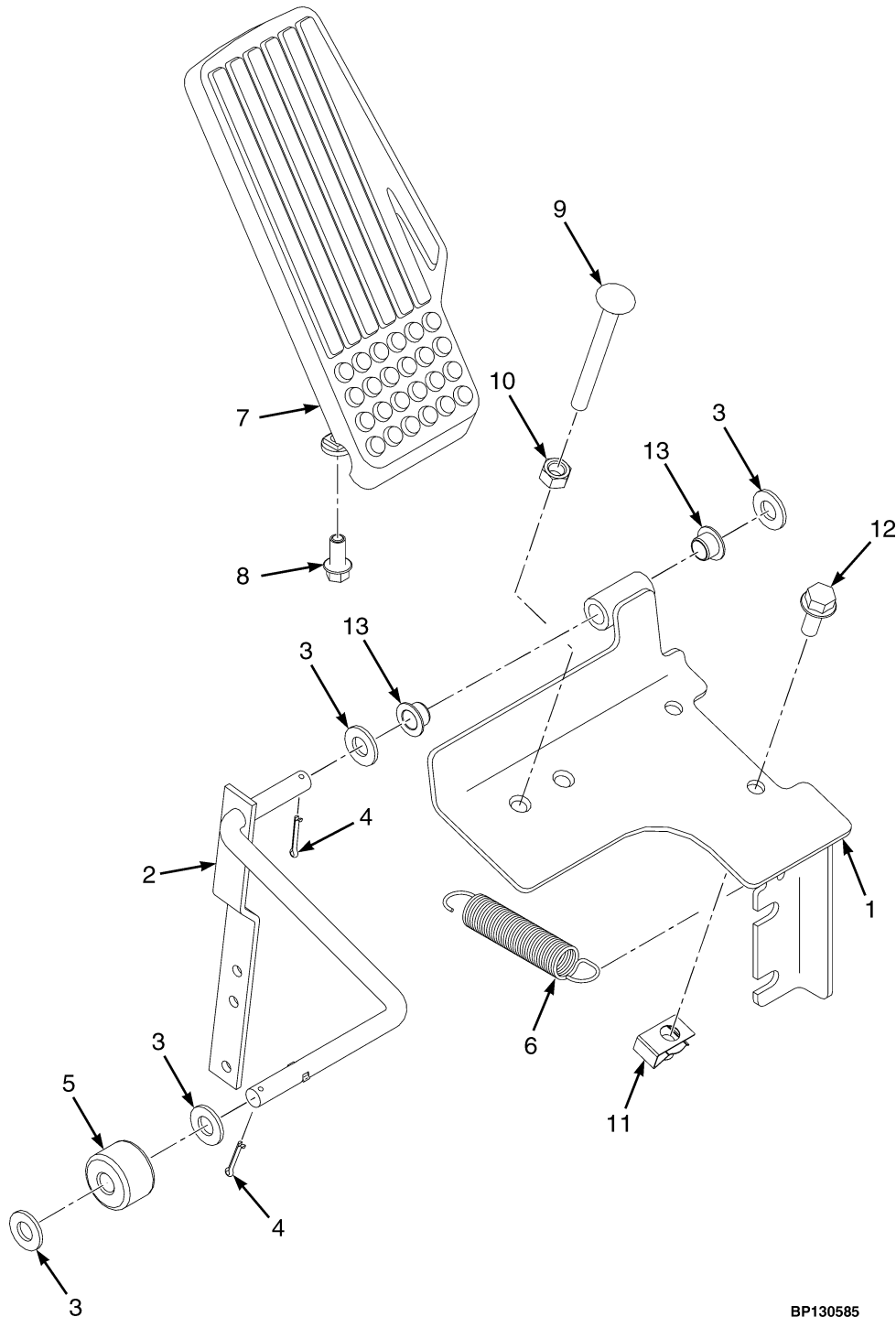


BP130567

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
STANDARD PEDAL YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	2088400	Bracket	1
1	2088402	Bracket Wldmt	1
2	2082037	Lever	1
3	320159	Washer	4
4	2027673	Pin	2
5	2047782	Roller	1
6	2082033	Spring	1
7	2027337	Pedal	1
8	1527876	Capscrew	2
9	4151554	Bolt	1
10	2022719	Nut	1
11	1398062	Nut (Fold Over)	2
12	1527880	Capscrew	2

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-21) STANDARD PEDAL YANMAR DIESEL

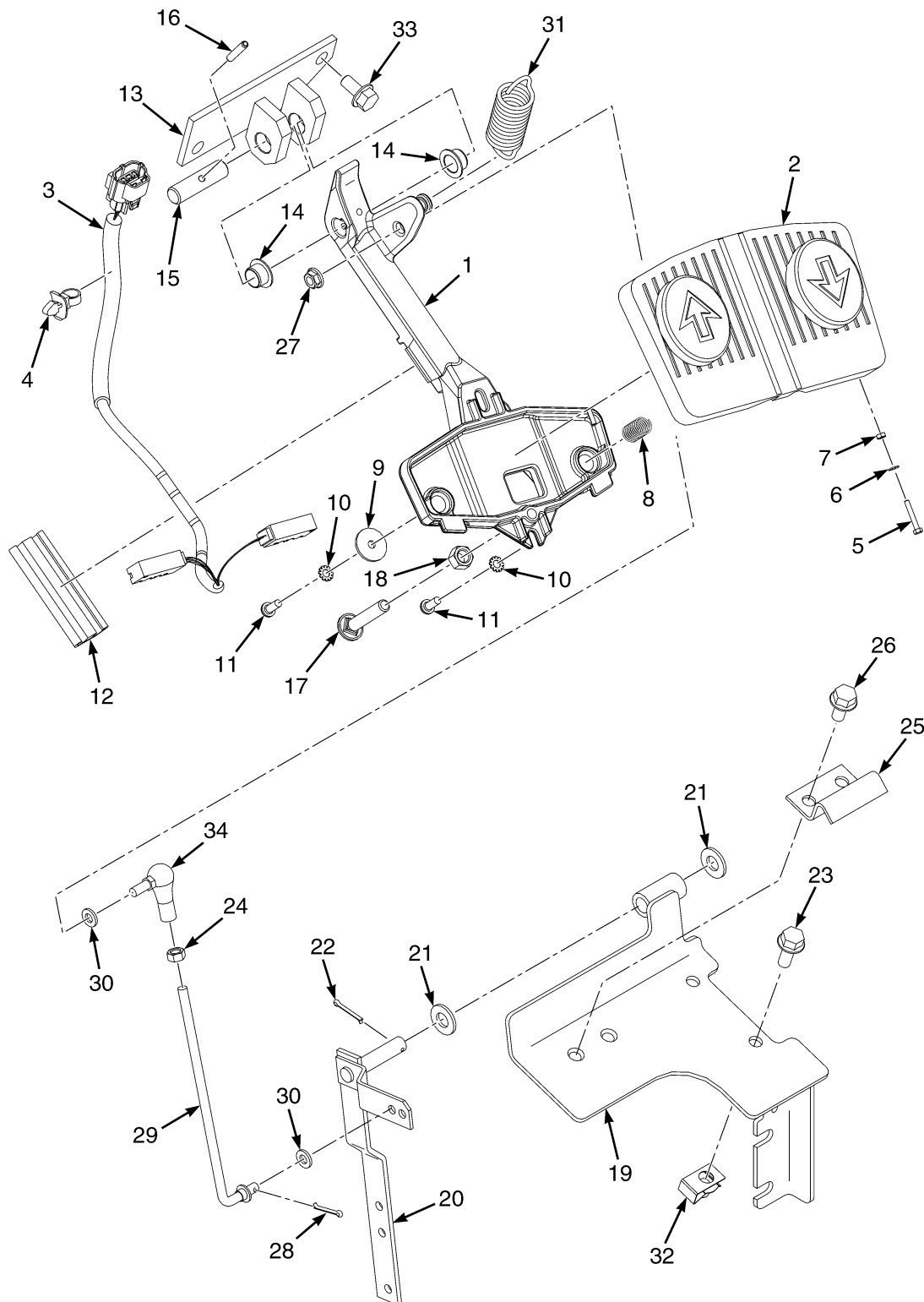


BP130585

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
STANDARD PEDAL YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	4168155	Lever , Accelerator Assembly, Yanmar	1
1	4168154	Bracket	1
2	2082037	Lever	1
3	320159	Washer	4
4	2027673	Pin	2
5	2047782	Roller	1
6	2082033	Spring	1
7	2027337	Pedal	1
8	1527876	Capscrew	2
9	4151554	Bolt	1
10	2022719	Nut	1
11	1398062	Nut (Fold Over)	2
12	1527880	Capscrew	2
13	2021809	Bushing	2

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-22) MONOTROL PEDAL YANMAR DIESEL

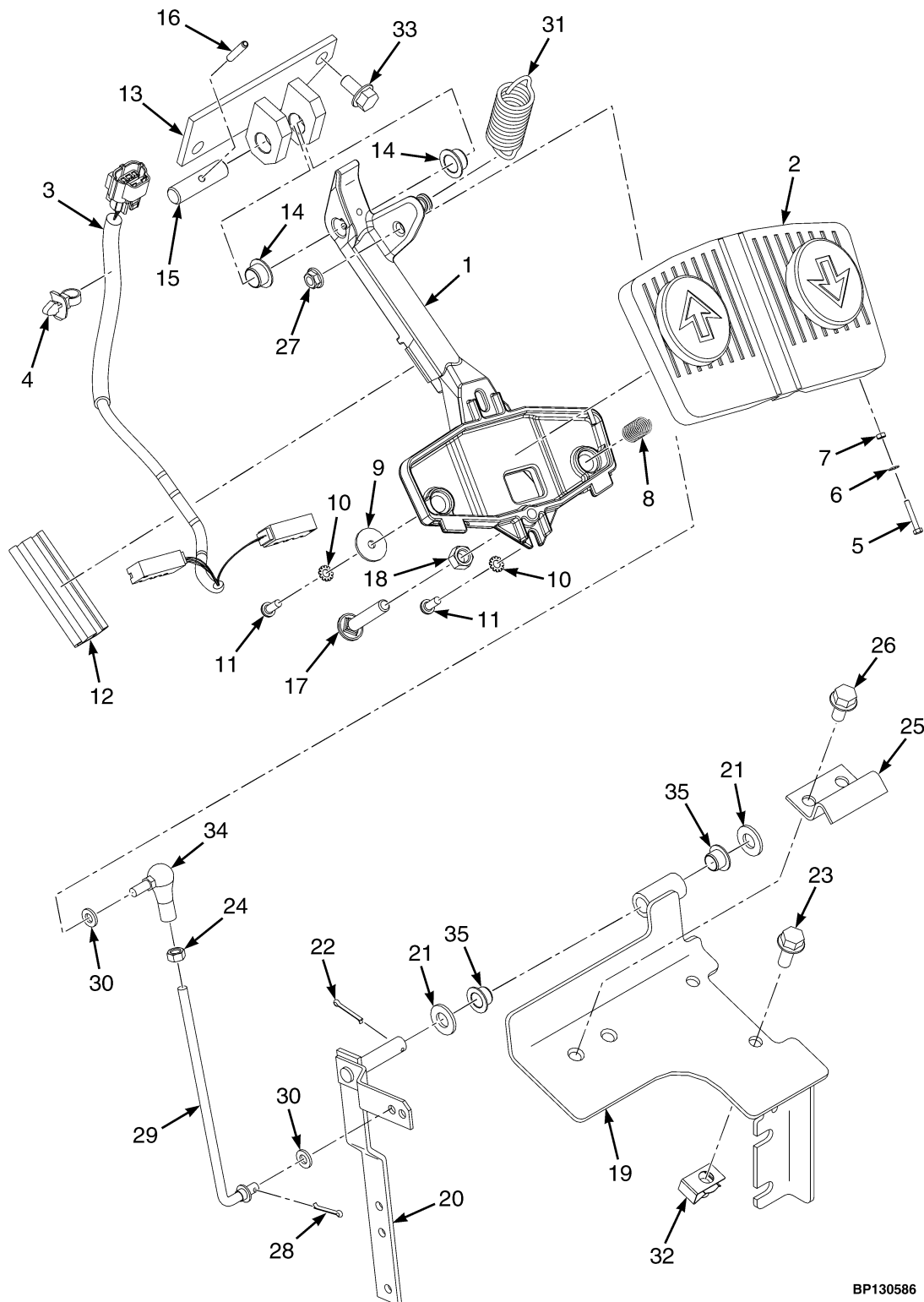


BP130565

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
MONOTROL PEDAL YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	1615251	Monotrol Pedal Assembly	1
1	1556829	Bracket (Pedal)	1
2	1340470	Pad	1
3	2080783	Wire Harness	1
4	2081255	Clip	1
5	302231	Capscrew	4
6	296375	Washer	4
7	292665	Nut	4
8	325699	Spring	2
9	362036	Washer	2
10	15931	Lockwasher	4
11	16708	Screw	4
12	1539418	Clip	1
13	2083605	Bracket	1
14	2027716	Bushing	2
15	2083606	Shaft	1
16	302437	Roll Pin	1
17	2030158	Square Neck Cup	1
18	2022719	Nut	1
19	2088402	Bracket Wldmt	1
20	2082465	Throttle Link	1
21	320159	Washer	2
22	2027673	Pin	1
23	1527880	Capscrew	2
24	136687	Nut	1
25	2082912	Bracket	1
26	4109993		
	1527879	Capscrew	2
26	2079533	Capscrew , M8x1.25x16	2
27	1307884		
	1514429	Nut	1
28	2027673	Pin	1
29	2083607	Throttle Link	1
30	4093489		
	320156	Washer	2
31	2099870	Spring	1
32	1398062	Nut (Fold Over)	2
33	4109993		
	1527879	Capscrew	2
34	2027949	Ball Joint	2

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS (FIGURE 4-23) MONOTROL PEDAL YANMAR DIESEL



BP130586

THROTTLE PEDAL ASSEMBLY AND ATTACHING PARTS
MONOTROL PEDAL YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
	1615251	Monotrol Pedal Assembly	1
1	1556829	Bracket (Pedal)	1
2	1340470	Pad	1
3	2080783	Wire Harness	1
4	2081255	Clip	1
5	302231	Capscrew	4
6	296375	Washer	4
7	292665	Nut	4
8	325699	Spring	2
9	362036	Washer	2
10	15931	Lockwasher	4
11	16708	Screw	4
12	1539418	Clip	1
13	2083605	Bracket	1
14	2027716	Bushing	2
15	2083606	Shaft	1
16	302437	Roll Pin	1
17	2030158	Square Neck Cup	1
18	2022719	Nut	1
19	4168154	Bracket	1
20	2082465	Throttle Link	1
21	320159	Washer	2
22	2027673	Pin	1
23	1527880	Capscrew	2
24	136687	Nut	1
25	2082912	Bracket	1
26	4109993		
	1527879	Capscrew	2
26	2079533	Capscrew , M8x1.25x16	2
27	1307884		
	1514429	Nut	1
28	2027673	Pin	1
29	2083607	Throttle Link	1
30	4093489		
	320156	Washer	2
31	2099870	Spring	1
32	1398062	Nut (Fold Over)	2
33	4109993		
	1527879	Capscrew	2
34	2027949	Ball Joint	2
35	2021809	Bushing	2

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5

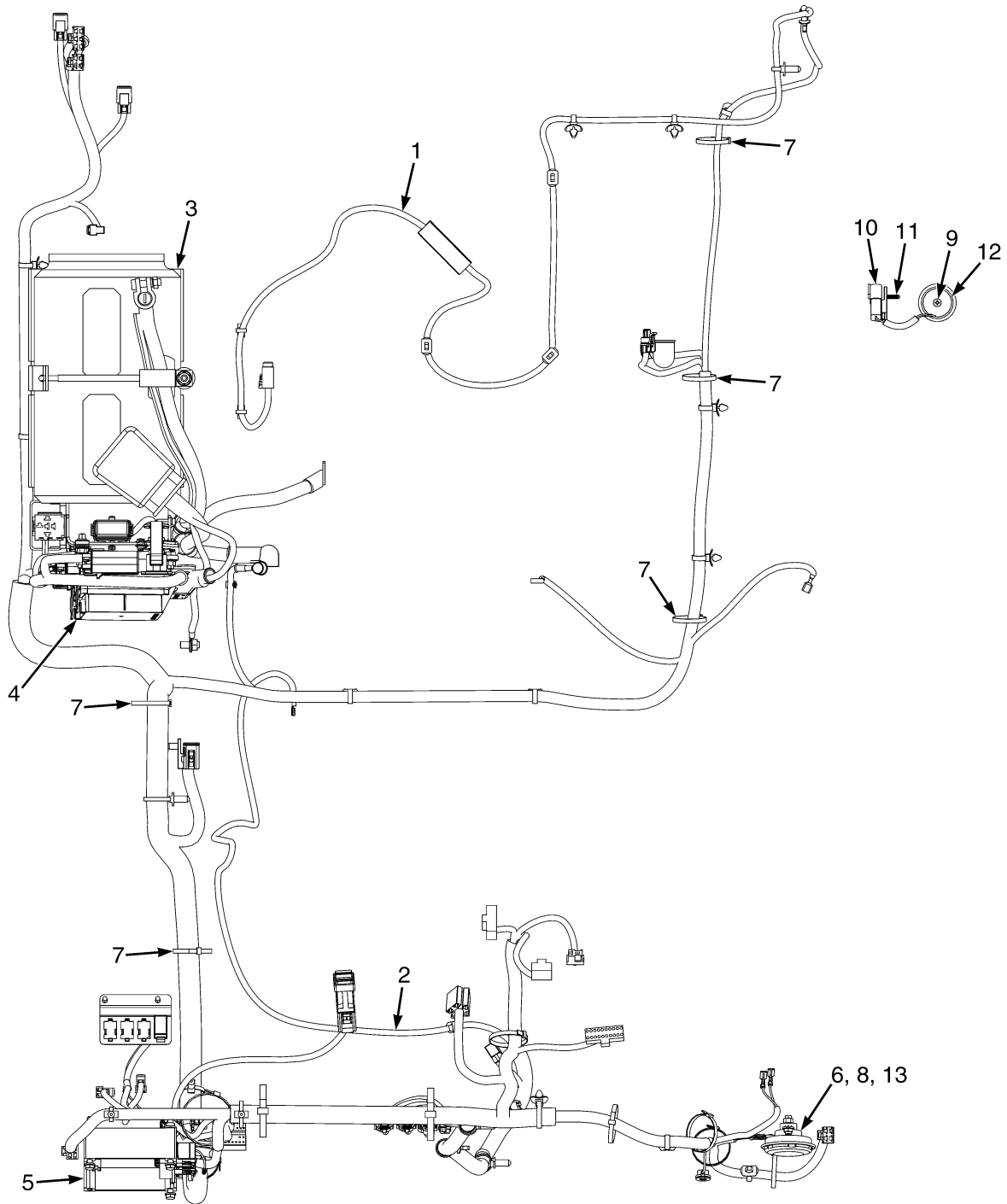
ELECTRICAL SYSTEM-COMMON TO UNIT

SECTION 5

ELECTRICAL SYSTEM-COMMON TO UNIT

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ELECTRICAL ARRANGEMENT (FIGURE 5-1) FRAME — PSI 2.4L LPG AND 2.4L BI-FUEL



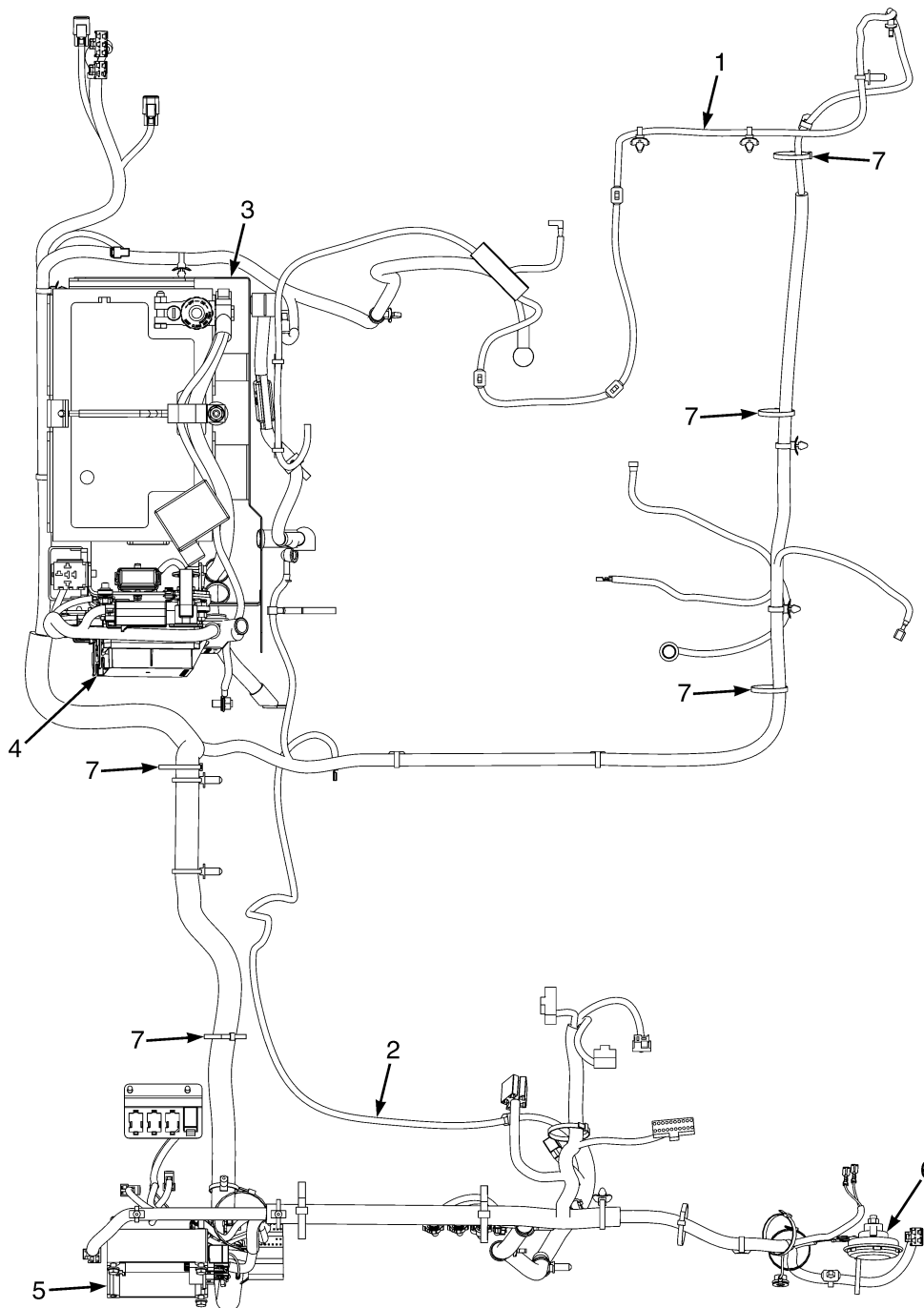
BP082290

ELECTRICAL ARRANGEMENT
FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	4653304	Wire Harness (Frame / LPG) (☞ Figure 5-3, ☞ Figure 5-26).....	1
1	4656379	Wire Harness (Frame / LPG) (☞ Figure 5-3, ☞ Figure 5-19).....	1
1	4655553	Wire Harness (Frame / LPG w/MLM) (☞ Figure 5-3, ☞ Figure 5-27).....	1
1	4653303	Wire Harness (Frame / Bi-Fuel) (☞ Figure 5-3, ☞ Figure 5-26).....	1
1	4656443	Wire Harness (Frame / Bi-Fuel) (☞ Figure 5-3, ☞ Figure 5-26).....	1
1	4655552	Wire Harness (Frame / Bi-Fuel w/MLM) (☞ Figure 5-3, ☞ Figure 5-27).....	1
2	4641177	Wire Harness (Cowl) (Forward and Reverse Lever) (☞ Figure 5-6).....	1
2	4641181	Wire Harness (Cowl) (Monotrol) (☞ Figure 5-5).....	1
3		Battery and Cables (☞ Figure 5-11, ☞ Figure 5-13).....	1
4		Fuse Box (Power Distribution Module) (☞ Figure 5-8).....	1
5	4653388		
	4656574	Controller (V-ECU)	1
5	a 292507	Capscrew	3
5	a 1307884		
	1514429	Nut	3
5	a 4093489		
	320156	Washer	3
5	a 296379	Washer	3
6	2090881	Horn	1
7	137852	Strap Clamp	7
8	1307884		
	1514429	Nut	1
9	4147108	Screw	1
10	1500912	Clip	1
11	1582464	Fastener	1
12	4133287	Buzzer	1
13	1534417	Capscrew	1

FOOTNOTES:**a** Not Illustrated

ELECTRICAL ARRANGEMENT (FIGURE 5-2) FRAME — YANMAR DIESEL



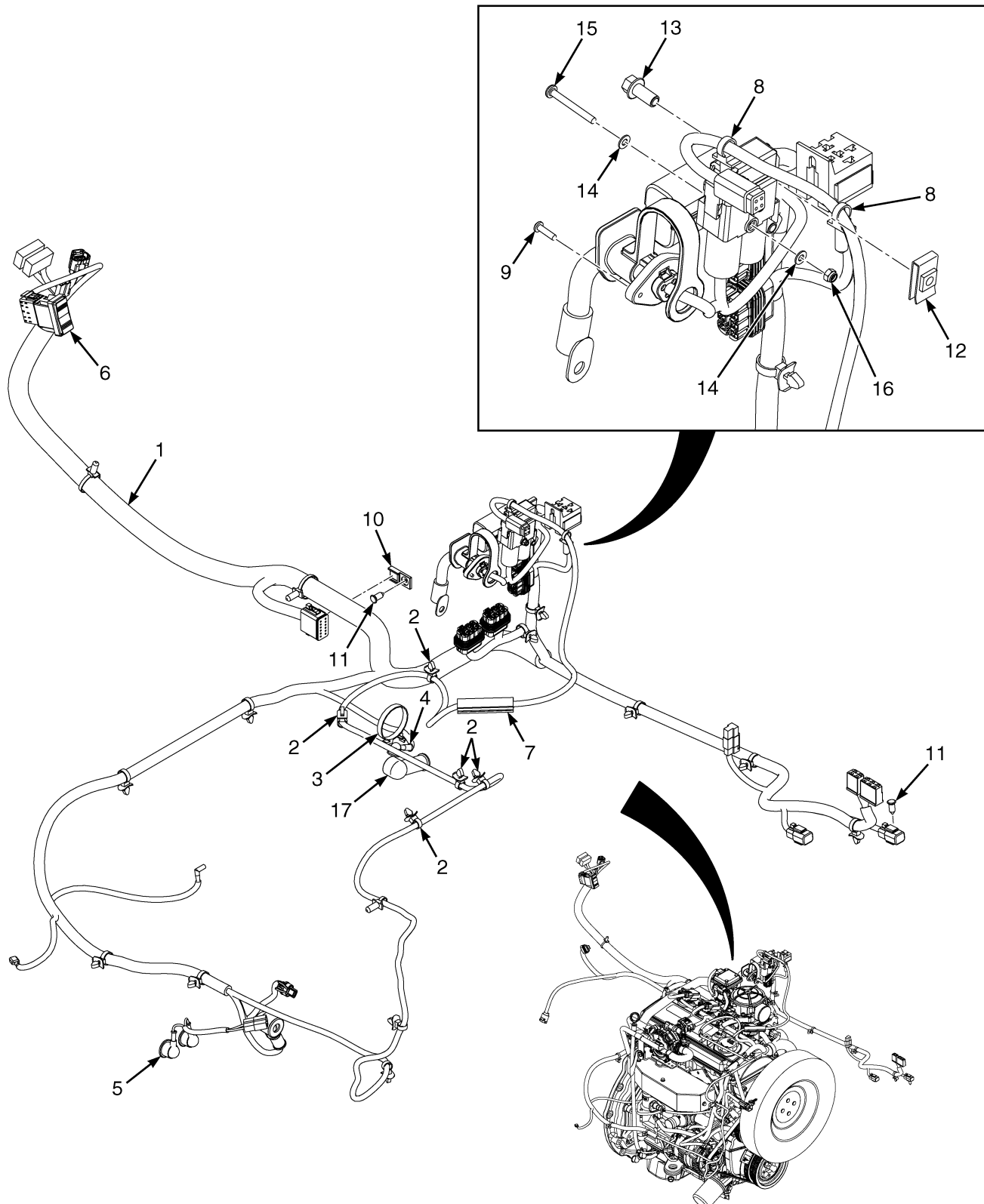
BP082289

**ELECTRICAL ARRANGEMENT
FRAME – YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	4653302	Wire Harness (Frame / Diesel) (☞Figure 5-4, ☞Figure 5-29).....	1
1	4656380	Wire Harness (Frame / Diesel) (☞Figure 5-4, ☞Figure 5-30).....	1
1	4655683	Wire Harness (Frame / Diesel w/MLM) (☞Figure 5-4, ☞Figure 5-30).....	1
2	4641177	Wire Harness (Cowl) (Forward and Reverse Lever) (☞Figure 5-23).....	1
2	4641181	Wire Harness (Cowl) (Monotrol) (☞Figure 5-24).....	1
3		Battery and Cables (☞Figure 5-12, ☞Figure 5-14).....	1
4		Fuse Box (Power Distribution Module) (☞Figure 5-8).....	1
5	4653388		
	4656574	Controller (V-ECU)	1
5	a 292507	Capscrew	3
5	a 1307884		
	1514429	Nut	3
5	a 4093489		
	320156	Washer	3
5	a 296379	Washer	3
6	2090881	Horn	1
6	1534417	Capscrew	1
7	137852	Strap Clamp	7

FOOTNOTES:**a** Not Illustrated

HARNESS GROUP (FIGURE 5-3) FRAME — PSI 2.4L LPG AND 2.4L BI-FUEL

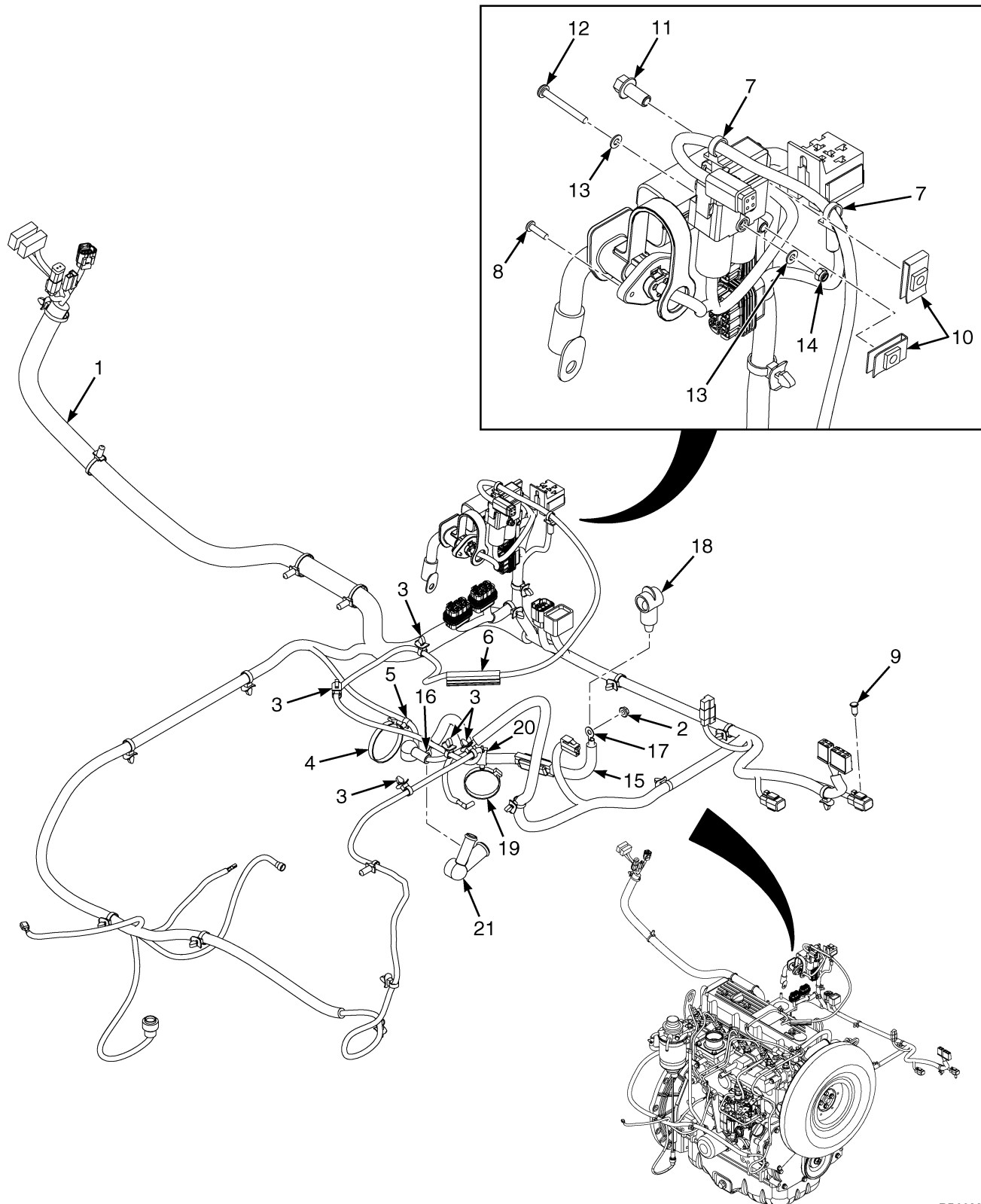


BP082262

HARNESS GROUP
FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
1	4653303	Wire Harness (PSI Bi-Fuel) (☞ Figure 5-26).....	1
1	4656443	Wire Harness (PSI Bi-Fuel) (☞ Figure 5-26).....	1
1	4655552	Wire Harness (PSI Bi-Fuel w/MLM) (☞ Figure 5-27).....	1
1	4653304	Wire Harness (PSI LPG)	1
1	4656379	Wire Harness (PSI LPG)	1
1	4655553	Wire Harness (PSI LPG w/MLM) (☞ Figure 5-27).....	1
2	4140362	Cable Clip	5
3	4160428	Clamp	1
4	1542440	Clamp (Swivel)	1
5	4640596	Wire Harness (Pump Motor)	1
6	2081385	Switch	1
7	2314499	Duct	1
8	4140361	Cable Clip	2
9	1554902	Screw	2
10	1500912	Clip	1
11	1582464	Fastener	2
12	1566420	Nut (Foldover)	2
13	1527876	Capscrew	2
14	320154	Washer	4
15	302027	Screw	2
16	815597	Nut	2
17	4007955	Boot	1

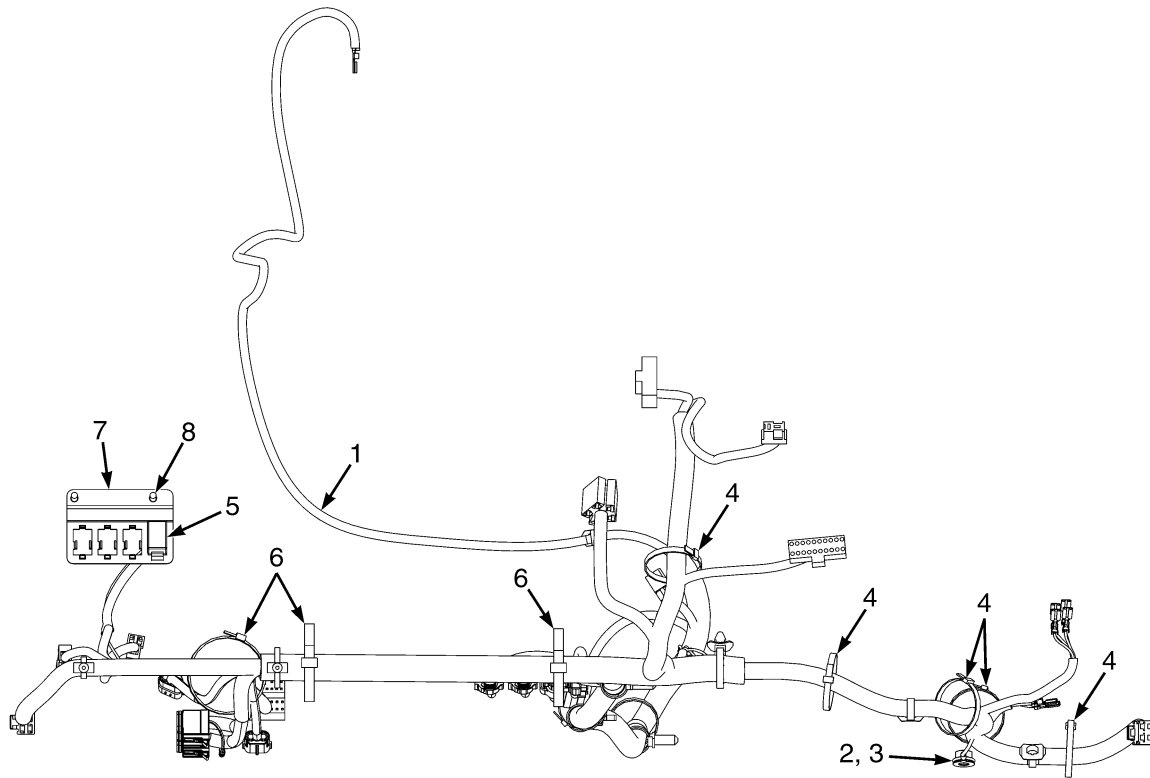
HARNESS GROUP (FIGURE 5-4) FRAME — YANMAR DIESEL



BP082263

**HARNESS GROUP
FRAME – YANMAR DIESEL**

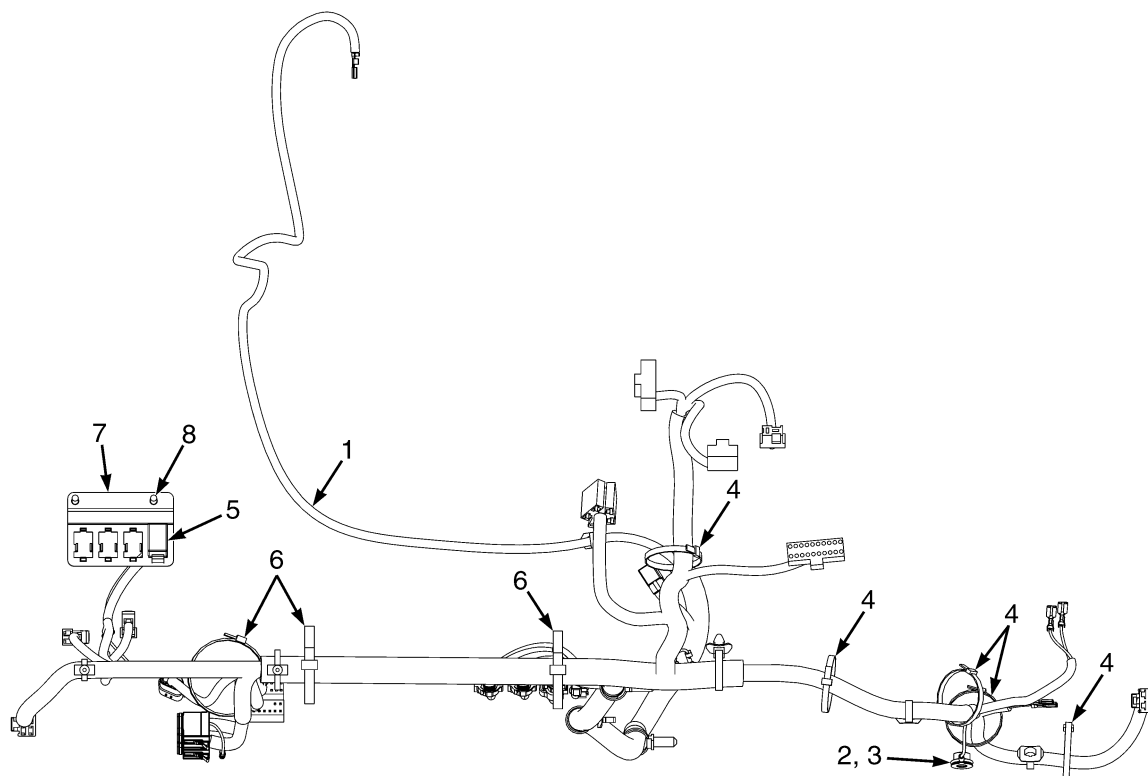
ITEM	PART NO.	DESCRIPTION	QTY
1	4653302	Wire Harness (Frame / Diesel) (☞ Figure 5-29).....	1
2	1307884 1514429	Nut	1
3	4140362	Cable Clip	5
4	1502061	Clamp (Swivel)	1
5	1542440	Clamp (Swivel)	1
6	2314499	Duct	1
7	4140361	Cable Clip	2
8	1554902	Screw	2
9	1582464	Fastener	1
10	1566420	Nut (Foldover)	2
11	1527876	Capscrew	2
12	302027	Screw	2
13	320154	Washer	4
14	815597	Nut	2
15	4632723	Wire Harness (Fused Alternator)	1
16	148615	E-Ring 5/16	1
17	148614	E-Ring 1/4	1
18	4050800	Boot	1
19	1644398	Clamp (Swivel)	1
20	1543691	Clamp (Swivel)	1
21	1661688	Boot	1
	222523	Heat Shrink	AR

**COWL ELECTRICAL (FIGURE 5-5)
MONOTROL**

BP082286

ITEM	PART NO.	DESCRIPTION	QTY
1	4641181	Wire Harness (Cowl) (Monotrol) (☞ Figure 5-24).....	1
2	296380	Washer	1
3	1382472		
	1502543	Nut	1
4	137852	Strap Clamp	7
5	4145648	Relay	1
5	a 4158371	Relay	1
6	129563	Strap Clamp	3
7	2085247	Bracket (Relay)	1
8	2027655	Screw	2

FOOTNOTES:**a** Optional

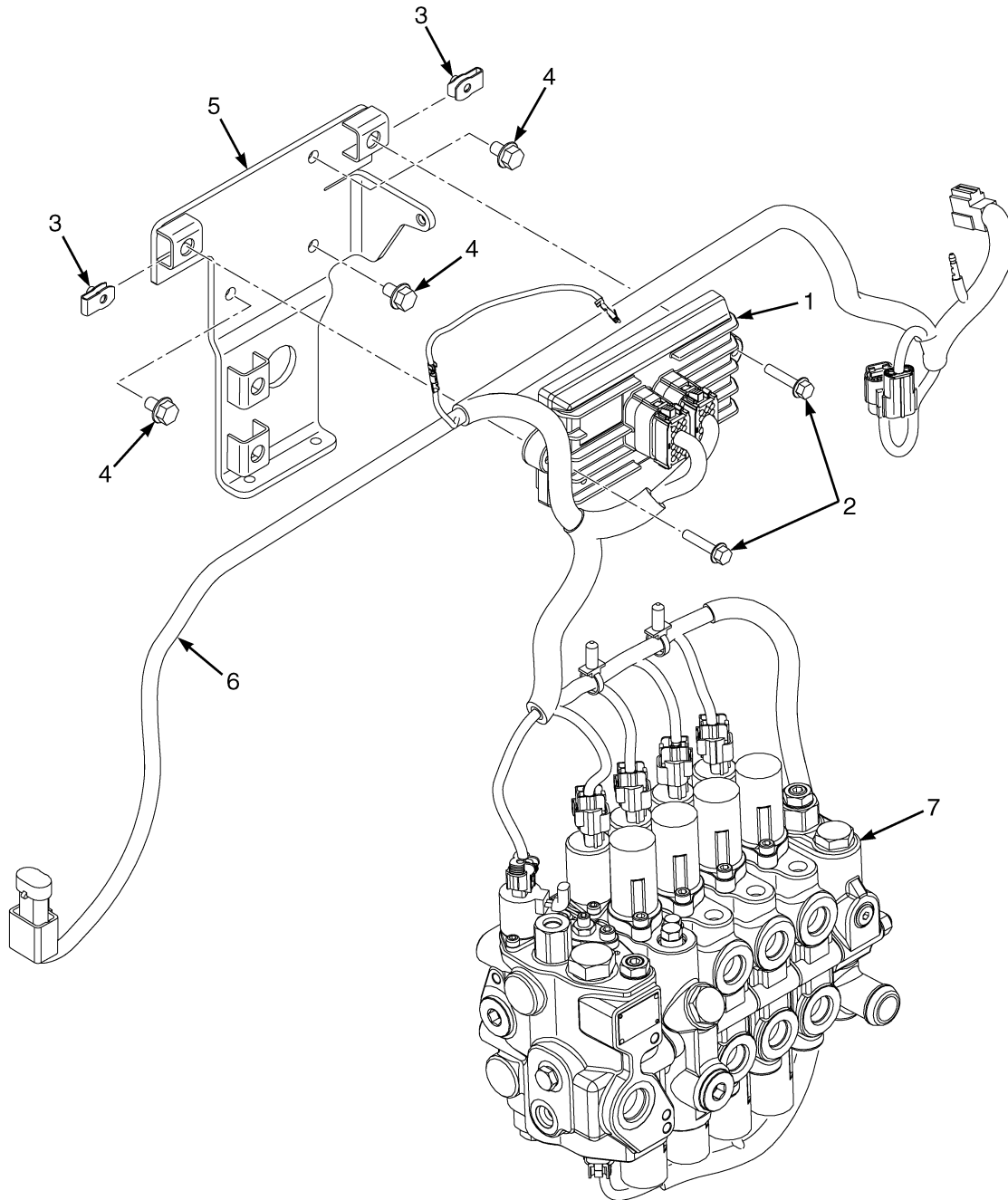
**COWL ELECTRICAL (FIGURE 5-6)
FORWARD AND REVERSE LEVER**

BP082286

ITEM	PART NO.	DESCRIPTION	QTY
1	4641177	Wire Harness (Cowl) (F/R Lever) (☞ Figure 5-23).....	1
2	1382472		
	1502543	Nut	1
3	296380	Washer	1
4	137852	Strap Clamp	7
5	4145648	Relay	1
5	a 4158371	Relay	1
6	129563	Strap Clamp	3
7	2085247	Bracket (Relay)	1
8	2027655	Screw	2

FOOTNOTES:**a** Optional

CONTROLLER (FIGURE 5-7) E-HYDRAULICS



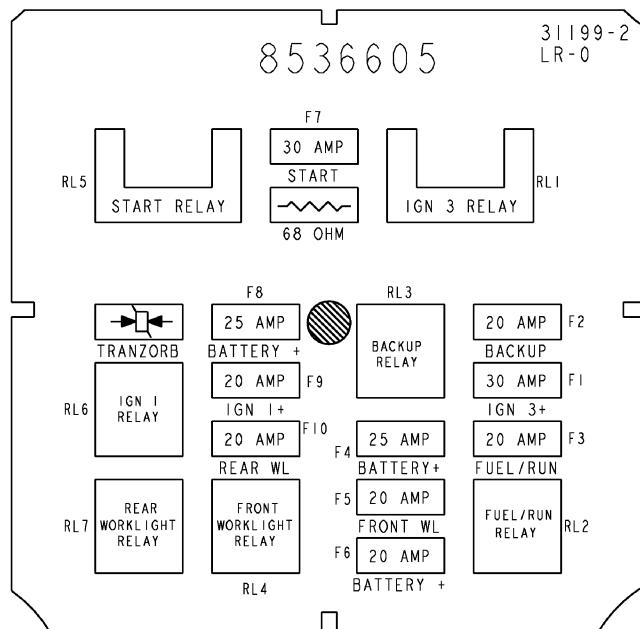
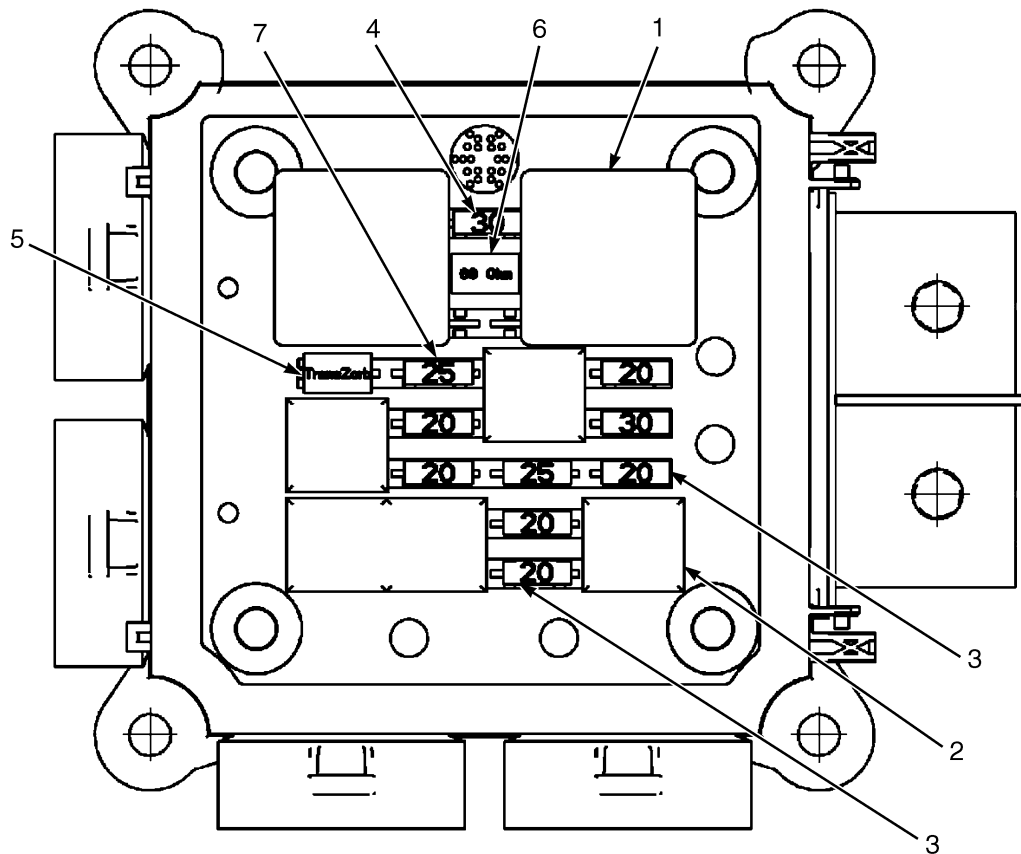
BP082395

**CONTROLLER
E-HYDRAULICS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4656057	Controller , E-HYD	1
2	1531479	Capscrew	1
3	1566420	Nut (Foldover)	1
4	1529366	Capscrew	3
5	4150189	Bracket Wldmt	1
6	4653938	Wire Harness (E-Hyd 3 Function)	1
6	4653937	Wire Harness (E-Hyd 4 Function)	1
7		Hydraulic Control Valve (☞Figure 10-13).....	1
8	a 137852	Strap Clamp	1

FOOTNOTES:**a** Not illustrated

POWER DISTRIBUTION MODULE (FIGURE 5-8)



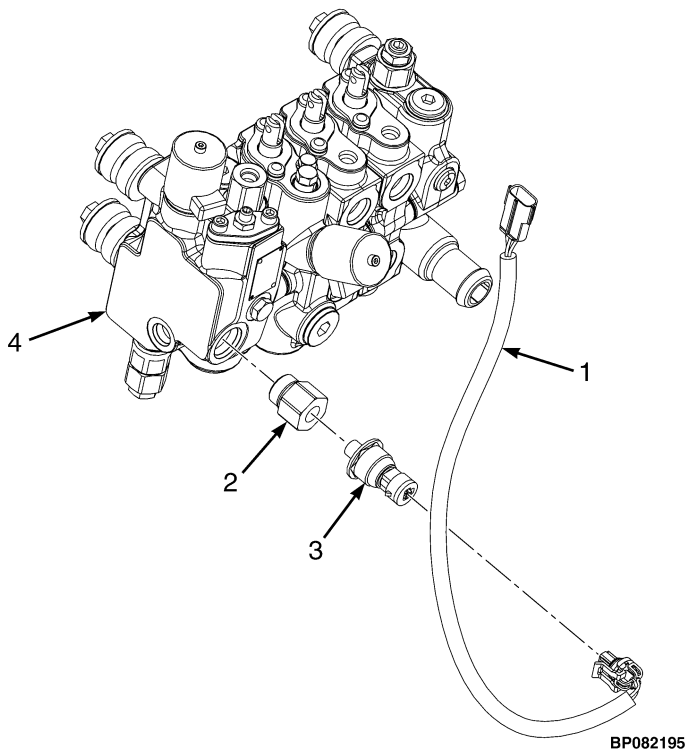
BP080485

POWER DISTRIBUTION MODULE

ITEM	PART NO.	DESCRIPTION	QTY
	2090613	Fuse Box (PDM)	1
1	2044712	Relay (30 Amp)	2
2	1528315	Relay (20 Amp)	5
3	1528132	Fuse (20 Amp)	6
4	1528133	Fuse (30 Amp)	2
5	1528630	Semiconductor	1
6	1528631	Resistor (68 Ohm, 5 Watt)	1
7	1544255	Fuse (25 Amp)	2
	a 4046933	Fuse Box Cover	1

FOOTNOTES:**a** Not Illustrated

LOAD WEIGH ELECTRICAL (FIGURE 5-9)

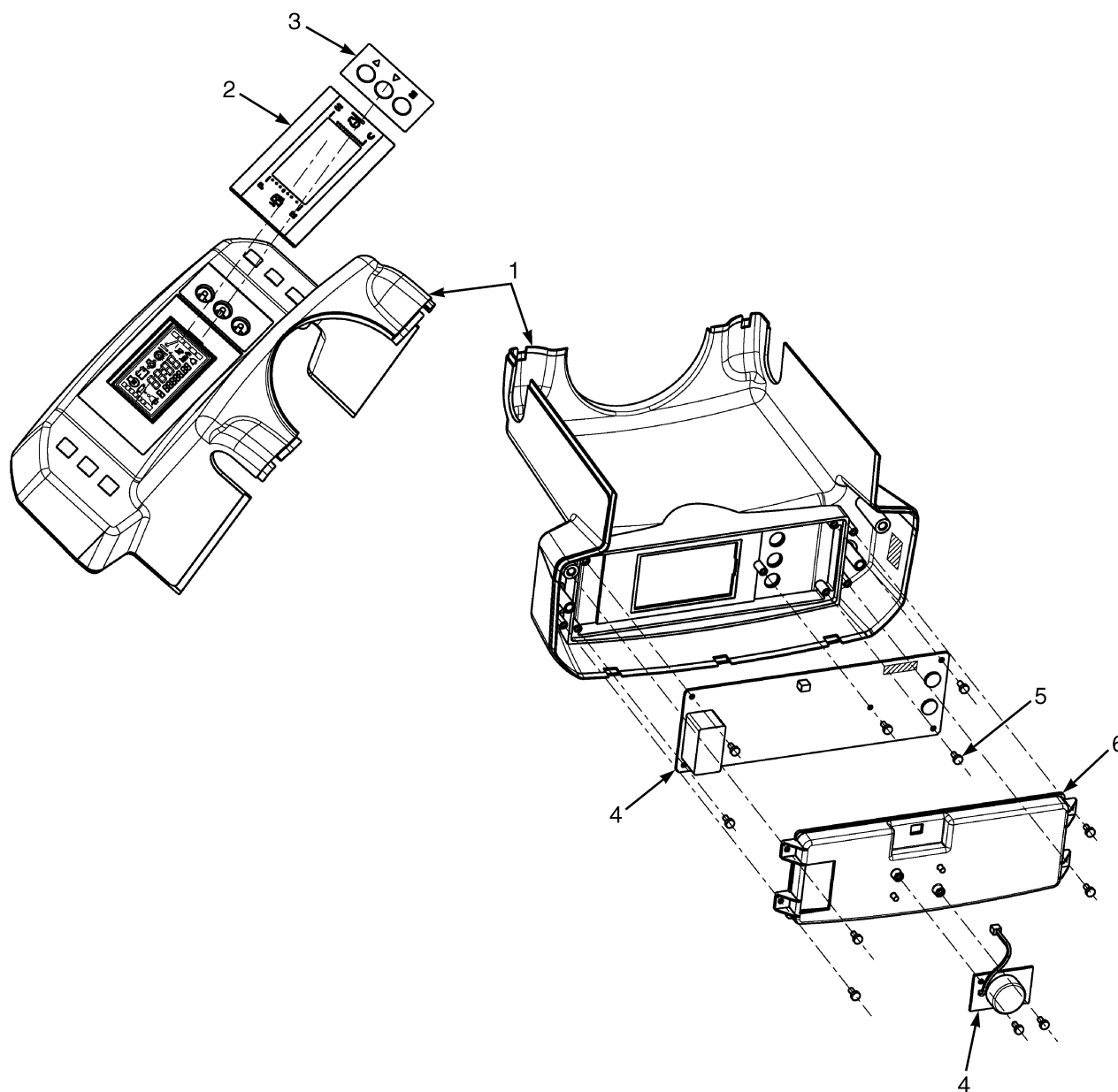


ITEM	PART NO.	DESCRIPTION	QTY
1	4641395	Wire Harness (To Cowl Harness)	1
2	4641708	Fitting	1
3	1606735	Sensor (Load Sensing)	1
4		Control Valve (Manual Hydraulics Valve Shown) (☞ Figure 10-7, ☞ Figure 10-13).....	1

NOTES

[illegible]

INSTRUMENT PANEL ASSEMBLY (FIGURE 5-10)

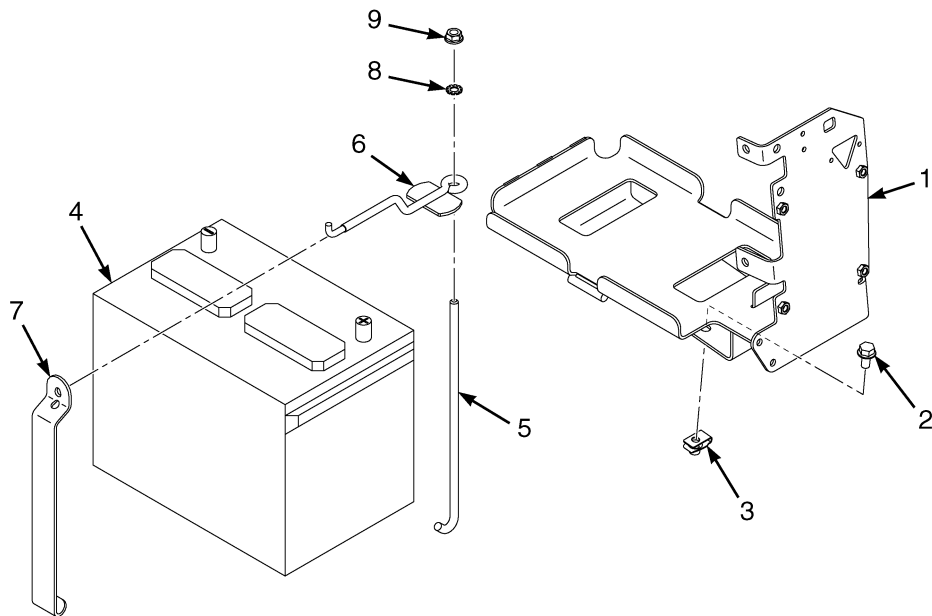


BP082237

INSTRUMENT PANEL ASSEMBLY**KEY:****A: DSL/BI FUEL****B: LPG**

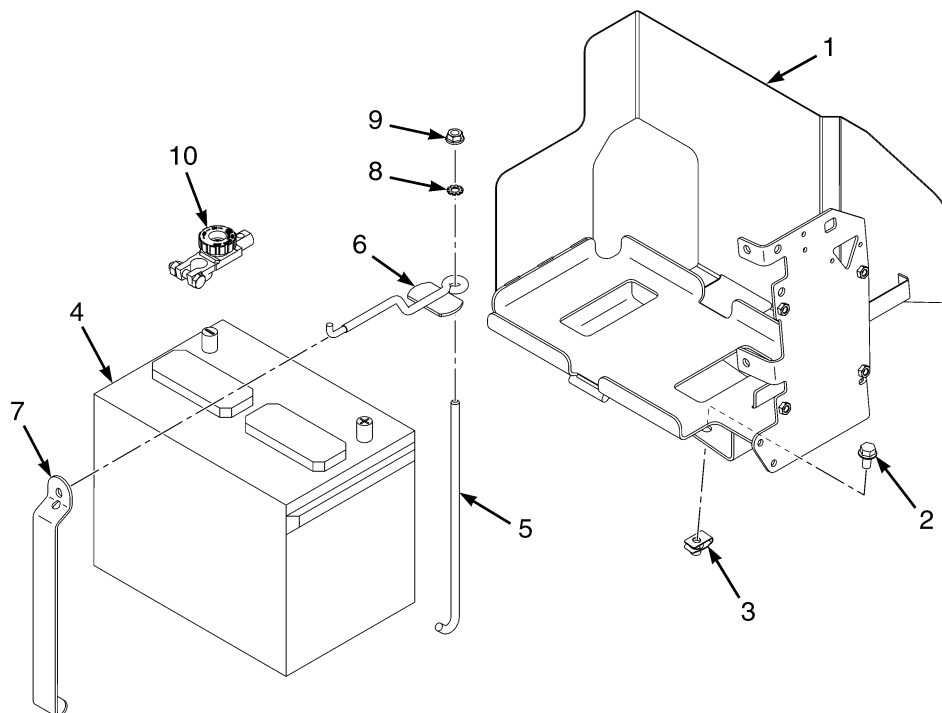
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2098296	Display	1	..
	2098297	Display	..	1
1	2080167	Cover	1	1
2	2080047	Instrument Panel	1	..
2	2080048	Instrument Panel	..	1
3	2080050	Label	1	1
4	2098298	Display	1	1
5	2057764	Screw	11	11
6	2080171	Case	1	1

BATTERY (FIGURE 5-11)



BP082292

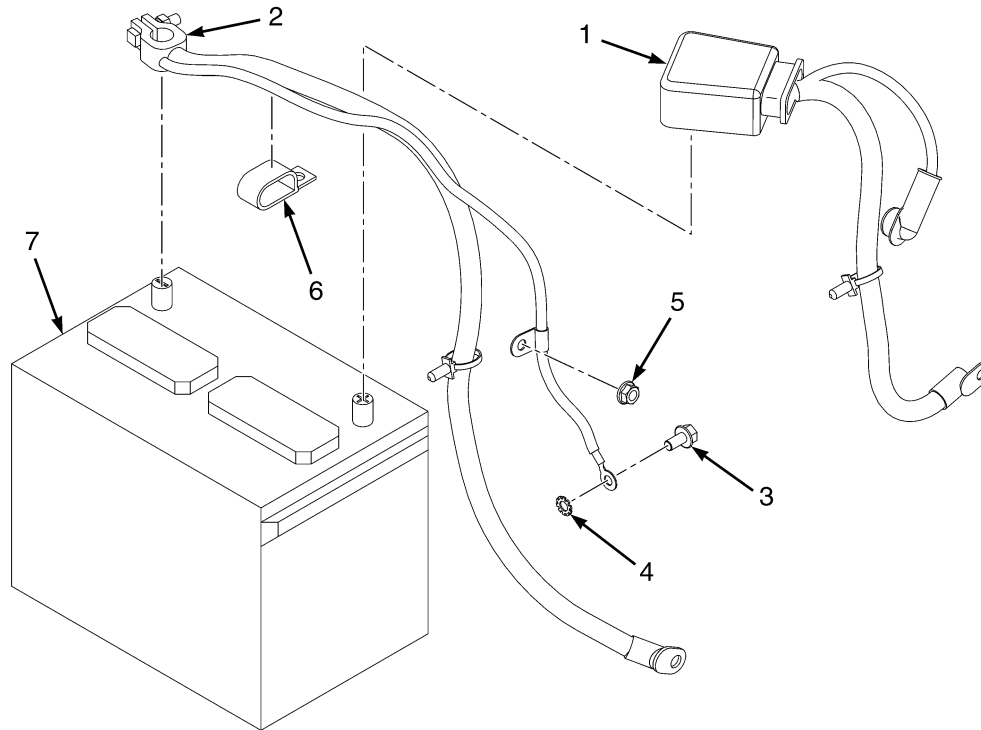
ITEM	PART NO.	DESCRIPTION	QTY
1	4113614	Battery Tray	1
2	4109993		
	1527879	Capscrew	4
3	1480237	Nut , Foldover	4
4	1643935	Start Battery Wet	1
5	2065745	Link (Battery Hold Down)	1
6	4109974	Link	1
7	4210441	Battery Hold Down	1
8	296380	Washer	1
9	1382472		
	1502543	Nut	1

BATTERY AND DISCONNECT SWITCH (FIGURE 5-12)
YANMAR DIESEL

BP082168

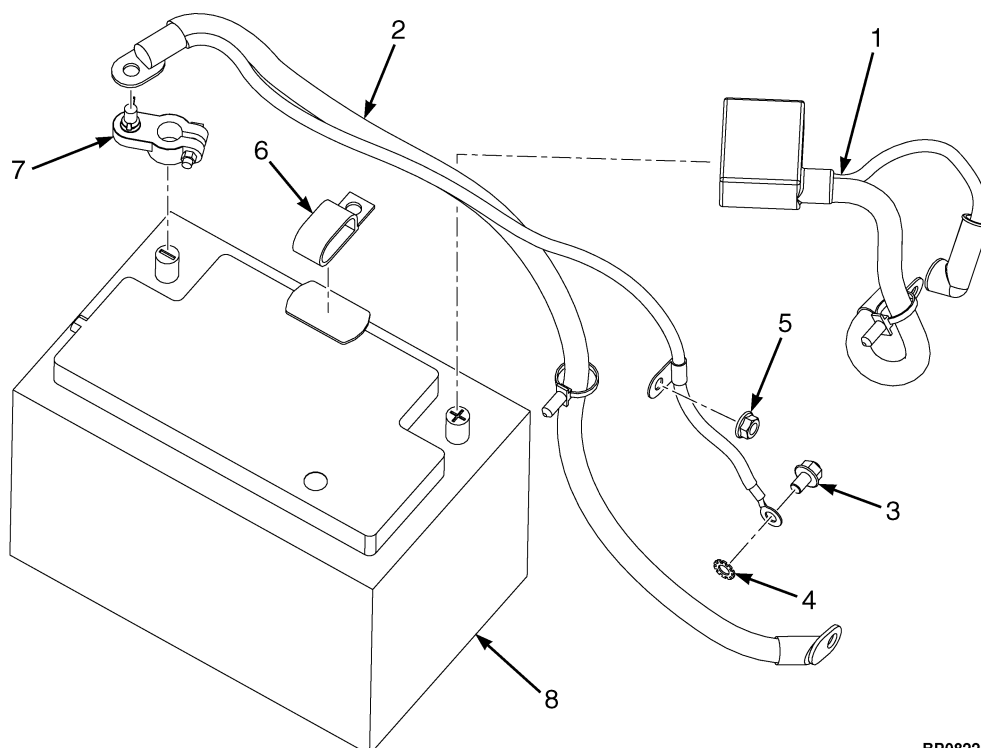
ITEM	PART NO.	DESCRIPTION	QTY
1	4113717	Battery Tray	1
2	4109993		
	1527879	Capscrew	4
3	1480237	Nut , Foldover	4
4	1643936	Start Battery Wet	1
5	2065745	Link (Battery Hold Down)	1
6	4109974	Link	1
7	4112007	Battery Hold Down	1
8	296380	Washer	1
9	1382472		
	1502543	Nut	1
10	4085110	Battery Disconnect	1

BATTERY CABLES (FIGURE 5-13)



BP082169

ITEM	PART NO.	DESCRIPTION	QTY
1	4641112	Battery Cable (Positive)	1
1	1357268	Battery Cable (Red)	AR
1	1357266	Battery Cable (Red)	AR
1	16079	Terminal	1
1	148798	Terminal	1
1	1539153	Conduit	AR
1	204223	Boot	1
1	1536304	Boot	1
2	4641113	Battery Cable (Negative)	1
2	16078	Battery Cable	AR
2	1357533	Wire-Bulk	AR
2	148789	Terminal	1
2	1564044	E-Ring	1
2	806426	E-Ring	1
2	1520490	Terminal	1
3	4109993		
	1527879	Capscrew	1
4	296380	Washer	2
5	4382472		
	1502543	Nut	3
6	110322	Clamp	1
7		Battery (☞ Figure 5-11).....	1

BATTERY CABLES (FIGURE 5-14)
YANMAR DIESEL

BP082291

KEY:**A: w/ Marine Battery Connector****B: w/o Marine Battery Connector**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4652941	Battery Cable (Positive)	1	1
1	1357268	Battery Cable (Red)	AR	AR
1	1357266	Battery Cable (Red)	AR	AR
1	16079	Terminal	1	1
1	148798	Terminal	1	1
1	1539153	Conduit	AR	AR
1	204223	Boot	1	1
1	4159441	Boot	1	1
1	4159440	Terminal	1	1
2	4641069	Battery Cable (Negative)	1	..
2	4641113	Battery Cable (Negative)	..	1
2	16078	Battery Cable	AR	AR
2	1357533	Wire-Bulk	AR	AR
2	148789	Terminal	1	1
2	1564044	E-Ring	1	1
2	806426	E-Ring	1	1
2	16079	Terminal	1	..
2	1520490	Terminal	..	1
3	1529366	Capscrew	1	1
4	296380	Washer	2	2
5	1382472	Nut	3	3

KEY:

A: w/ Marine Battery Connector

B: w/o Marine Battery Connector

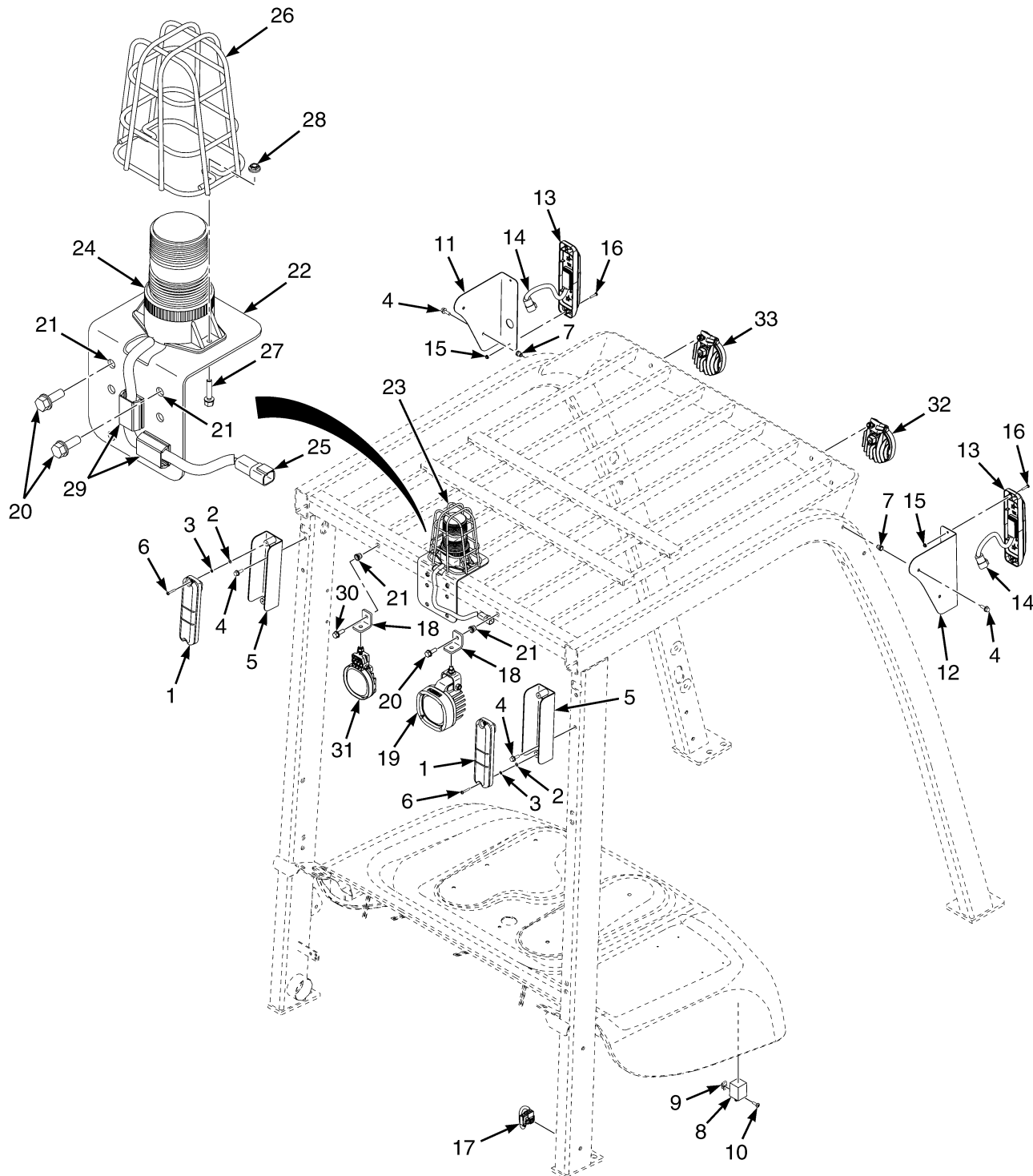
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1502543			
6	110322	Clamp	1	1
7	4121870	Battery Connector (Neg) (Not used with 4641113)	1	..
8		Battery (☞ Figure 5-12).....	1	1

NOTES

[illegible]

LIGHT GROUP (FIGURE 5-15)

TAIL, BRAKE, BACKUP, TURN, SIDE MARKER, WORK AND STROBE LIGHTS



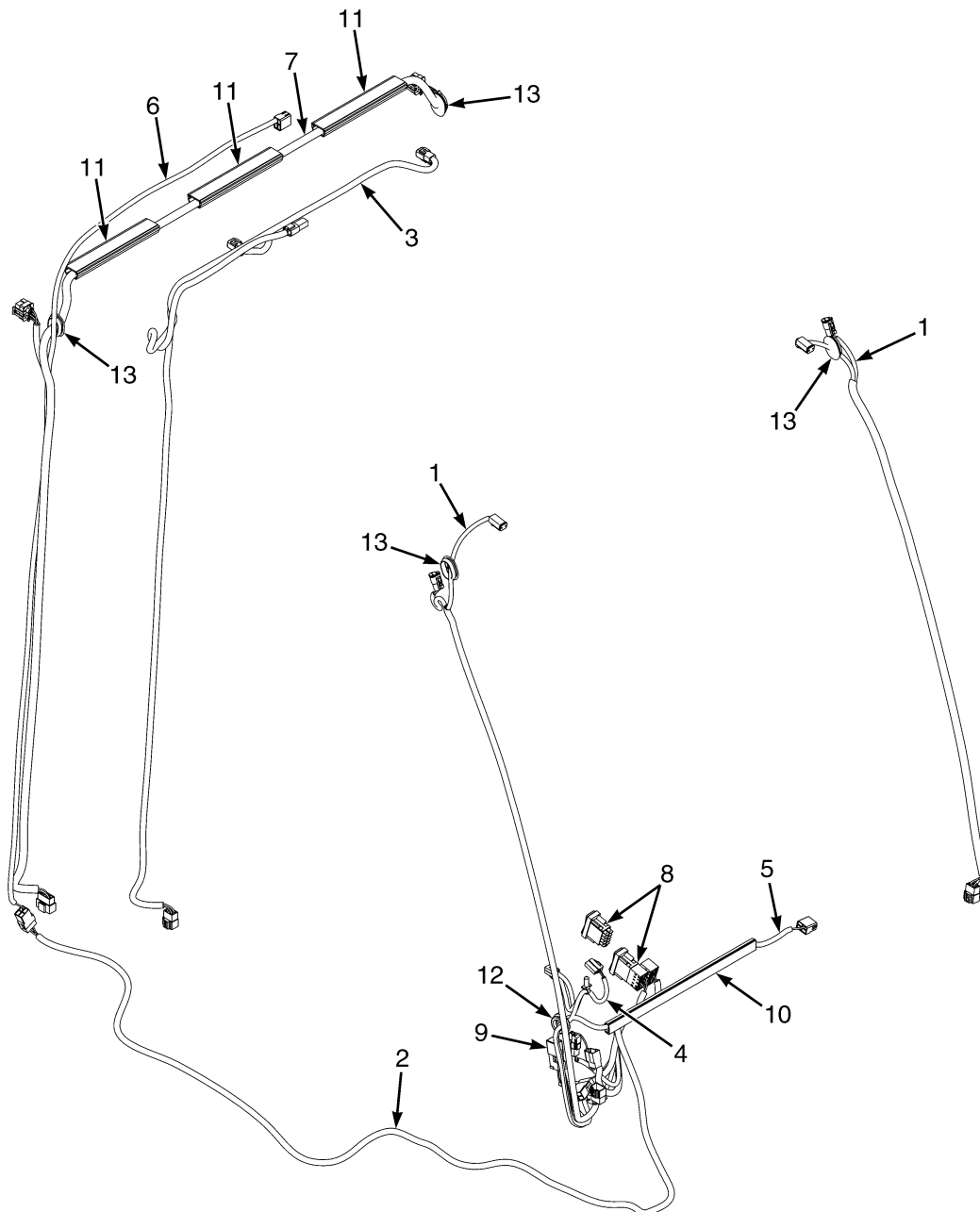
BP082267

LIGHT GROUP

TAIL, BRAKE, BACKUP, TURN, SIDE MARKER, WORK AND STROBE LIGHTS

ITEM	PART NO.	DESCRIPTION	QTY
1	2056826	Reflector (Tail)	2
1	2056824	Brake/Backup Light (Stop, Turn, Tail, And Back-Up)	2
2	320154	Washer	4
3	292678	Lockwasher	4
4	1665758	Capscrew	8
5	4152752	Guard	2
6	302025	Screw	4
7	1531001	Insert	4
8	1694442	Flasher	1
9	4019192	Clip , Nut	1
10	302035	Screw	1
10	302036	Screw (78 inch Light Group only)	1
11	4134835	Mounting Plate	1
11	4143756	Mounting Plate (78 inch Light Group only)	1
12	4134482	Mounting Plate	1
12	4143023	Mounting Plate (78 inch Light Group only)	1
13	4644657	Light , LED Marker and Turn	2
14	1330410	Connector (DT REC 3-Pin)	2
15	1549398	Nut	4
16	302024	Screw	4
17	4653422	Wire Harness (Reverse activated rear work light)	1
18	4133036	Bracket	2
19	4629729	Light , Blue LED	1
20	1583611	Capscrew	3
21	1530243	Insert	4
22	4122774	Bracket	1
23	1654013	Strobe Light Assembly	1
24	1652290	Strobe Light (Amber LED)	1
25	1561559	Connector (2 Pin)	1
25	1561755	Connector (Secondary Lock)	1
25	1463138	Terminal Pin	2
26	1302024	Guard (Strobe Light)	1
27	1586759	Capscrew	2
28	1586428	Nut	2
29	2072975	Duct	2
30	1583611	Capscrew	1
31	2098083	Work Light (Rear, Includes Hardware) (Halogen)	1
31	4650809	Head/Work Light (Rear) (LED)	1
32	2098084	Work Light (RH Front, Includes Hardware) (Halogen)	1
32	4650810	Head/Work Light (Front RH LED) (LED)	1
33	2098085	Work Light (LH Front, Includes Hardware) (Halogen)	1
33	4650811	Head/Work Light (Front LH LED) (LED)	1
99	4654288	Duct	2

HARNESS GROUP (FIGURE 5-16) LIGHTS



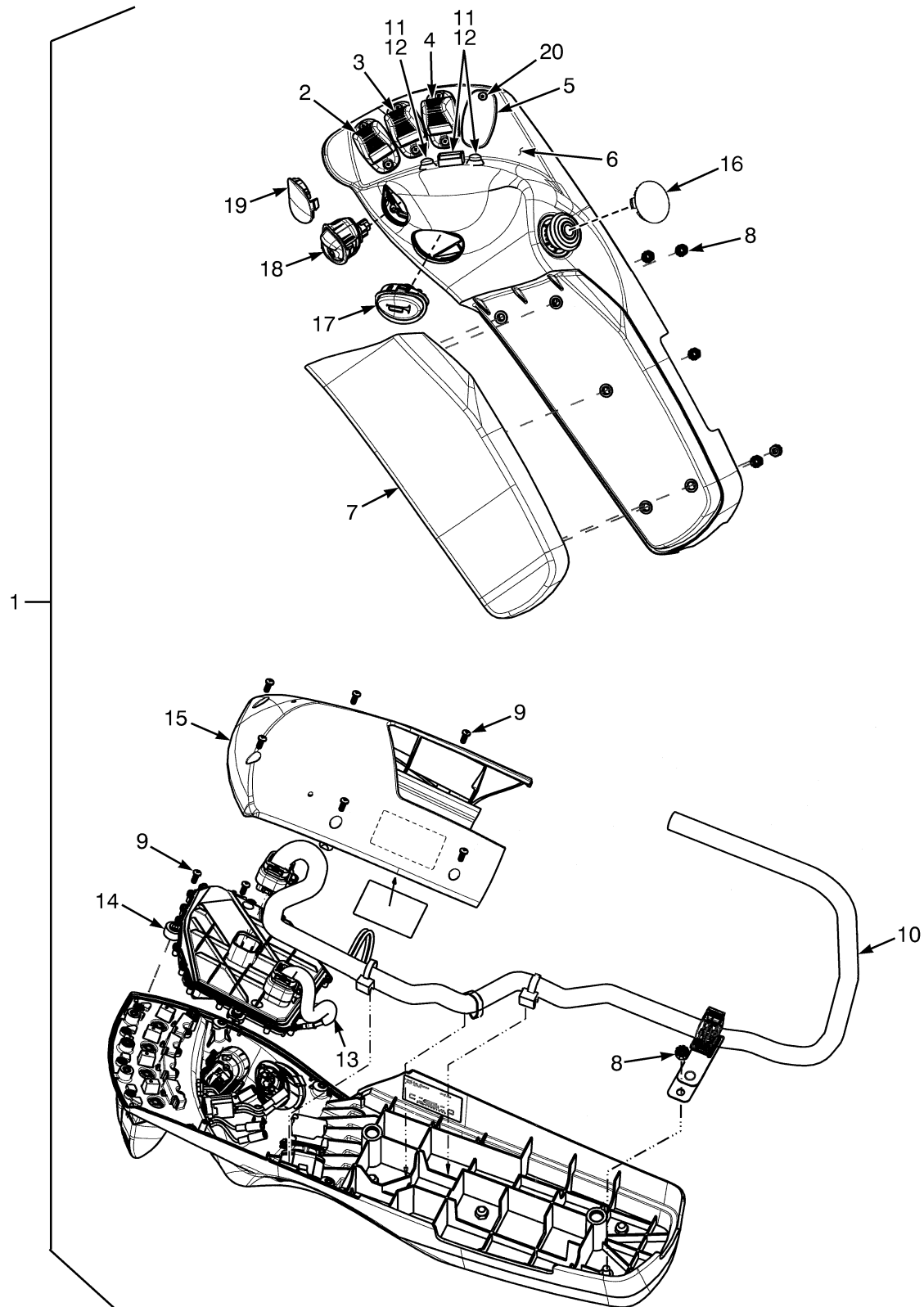
BP082293

**HARNESS GROUP
LIGHTS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4641471	Wire Harness (Front Work Light)	2
1	4641392	Wire Harness (Front Work, Marker Light)	2
2	4641408	Wire Harness (Rear Wiper)	1
3	4653405	Wire Harness (Rear Light, With Blue Spot)	1
4	4641191	Wire Harness (Cab Washer)	1
5	4641410	Wire Harness (Front Wiper Motor)	1
6	4641413	Wire Harness (Rear Wiper Motor)	1
6	4655293	Wire Harness (Rear Wiper Motor)	1
7	4641197	Wire Harness (Tail Light)	1
8	2081385	Switch	2
9	4145648	Relay	1
10	2059656	Duct	1
11	2029596	Duct	3
12	2021719	Grommet	1
13	2070996	Grommet	4
14	a 304195	Grommet (w/High OHG Option)	1

FOOTNOTES:**a** Not illustrated

MINI-LEVER CONTROLS (FIGURE 5-17) WITH ARMREST — THREE FUNCTION



BP080959

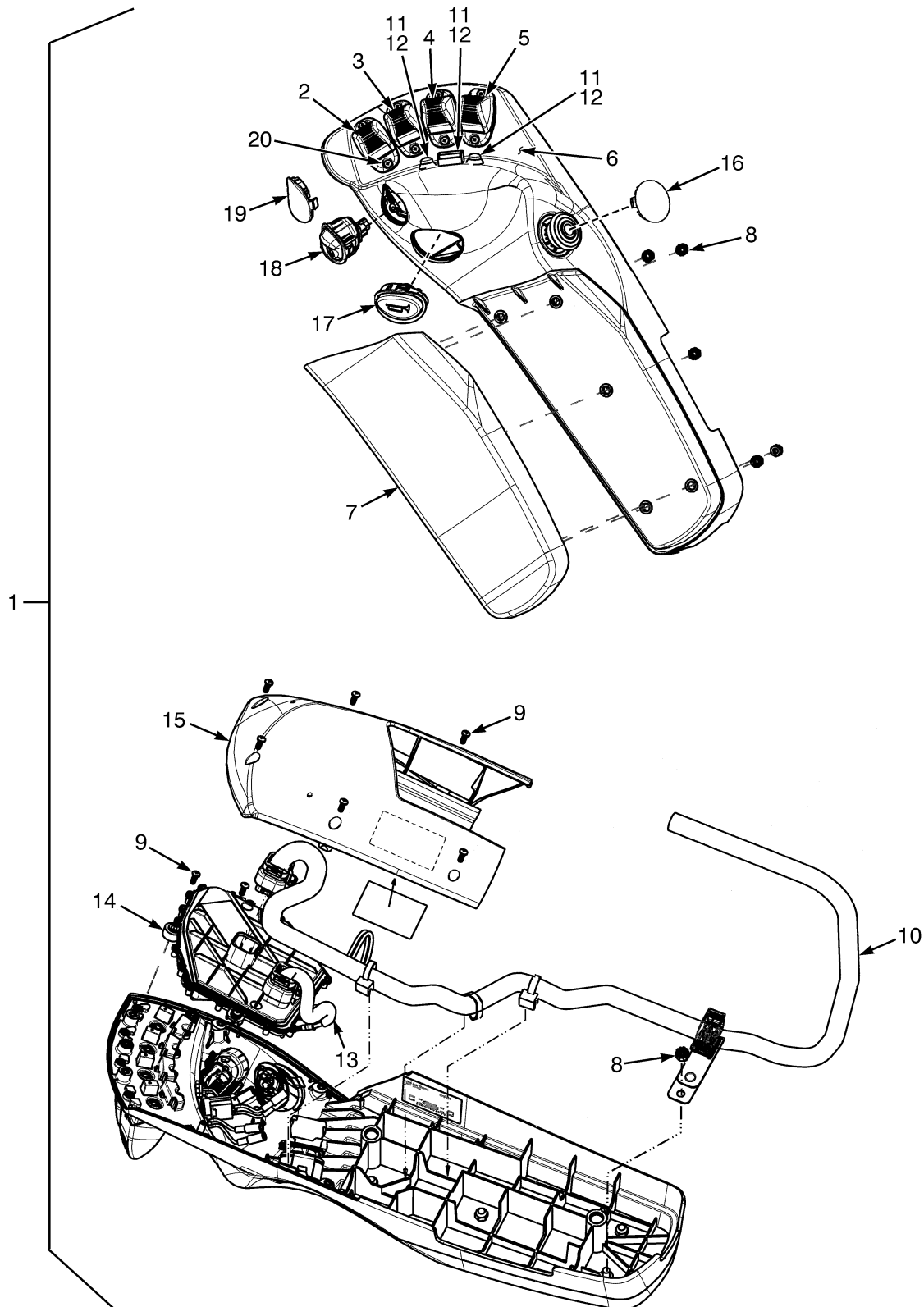
**MINI-LEVER CONTROLS
WITH ARMREST – THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	4601093	Mini-Lever Assembly	1
1	b 4601265	Mini-Lever Assembly	1
2		Lever Position 1	1
2	2110791	Lever (Single Function)	1
3		Lever Position 2	1
3	2110791	Lever (Single Function)	1
4		Lever Position 3	1
4	2110791	Lever (Single Function)	1
4	b 2110792	Lever (Clamping)	1
5	2108249	Plug	1
6	2111799	Armrest (Without Push Buttons)	1
6	b 4603439	Armrest (With Push Buttons)	1
7	2111769	Cushion (Armrest)	1
8	1709587	Nut	5
9	1698449	Capscrew	6
10	4605336	Wire Harness	1
11	a b 1704528	Push Button (Position 3)	1
12	b 1705359	Cover (Push Button)	1
13	1704529	Wire Harness (Forward/Reverse Switch in the MLM) (Push Buttons)	1
14	2111802		
	4605337	Printed Circuit Board	1
15	2111800	Cover (Bottom Armrest)	1
16	4601120	Plug	1
17	2111770	Horn Button	1
19	2110942	Plug (Directional Control Switch)	1
20	1698449	Capscrew	8

FOOTNOTES:

- a** Not all Lift Trucks may have all the switches and buttons shown. **b** With Clamping

MINI-LEVER CONTROLS (FIGURE 5-18) WITH ARMREST — FOUR FUNCTION



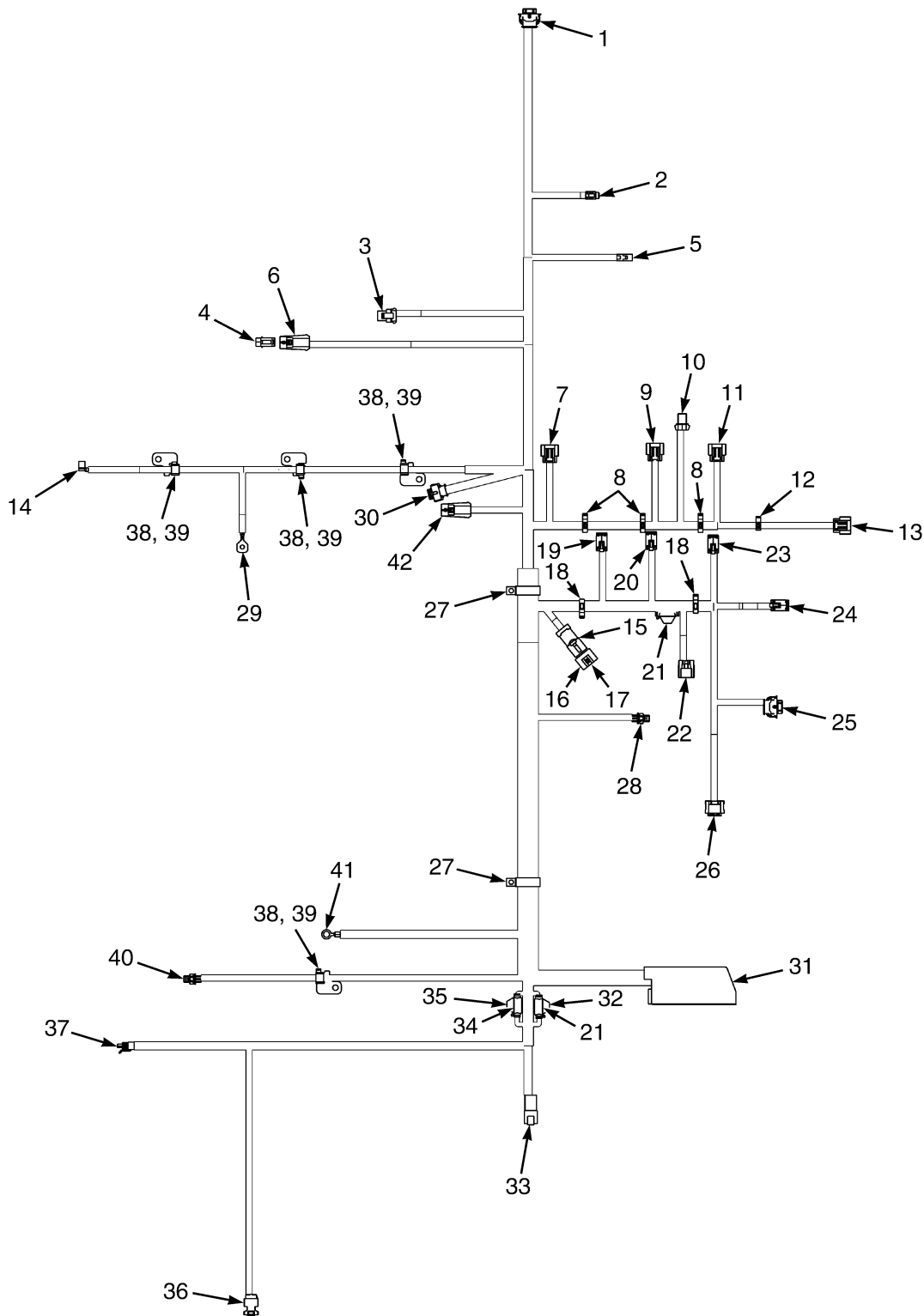
BP080960

**MINI-LEVER CONTROLS
WITH ARMREST – FOUR FUNCTION****KEY:****A: Without Directional Control Switch****B: With Directional Control Switch**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4601094	Mini-Lever Assembly	1	..
1	b 4601096	Mini-Lever Assembly	1	..
2		Lever Position 1	1	1
2	2110791	Lever (Single Function)	1	1
3		Lever Position 2	1	1
3	2110791	Lever (Single Function)	1	1
4		Lever Position 3	1	1
4	2110791	Lever (Single Function)	1	1
5		Lever Position 4	1	1
5	2110791	Lever (Single Function)	1	1
5	b 2110792	Lever (Clamping)	1	1
6	2111799	Armrest (Without Push Buttons)	1	1
6	b 4603439	Armrest (With Push Buttons)	1	1
7	2111769	Cushion (Armrest)	1	1
8	1709587	Nut	5	5
9	1698449	Capscrew	6	6
10	4605336	Wire Harness (MLM)	1	1
11	a b 1704528	Push Button	1	1
12	b 1705359	Cover (Push Button)	2	2
13	1704529	Wire Harness (Forward/Reverse Switch in the MLM) (Push Buttons)	1	1
14	2111802			
	4605337	Printed Circuit Board	1	1
15	2111800	Cover (Bottom Armrest)	1	1
16	4601120	Plug	1	1
17	2111770	Horn Button	1	1
19	2110942	Plug (Directional Control Switch)	1	..
20	1698449	Capscrew	8	8

FOOTNOTES:**a** Not all Lift Trucks may have all the switches and buttons shown.**b** With Clamping

WIRE HARNESS (FIGURE 5-19) ENGINE — PSI 2.4L LPG AND 2.4L BI-FUEL



BP082192

WIRE HARNESS
ENGINE – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
	4644871	Wire Harness	1
	4644872	Wire Harness (Bi-Fuel)	1
1		Connector Assembly (Fuel Pressure Manifold - Bi-Fuel)	1
1	1567469	Plug	1
1	4053417	Terminal	4
1	1567470	Wire Seal	4
2		Connector Assembly (LPG Buzzer - Common)	1
2	1484557	Connector (2 Socket)	1
2	1484558	Connector (Secondary Lock)	1
2	1463139	Terminal	2
3		Connector Assembly (LPG Sensor Switch - Common)	1
3	1329152	Plug	1
3	1329151	Terminal	1
3	1330281	Terminal	2
3	1402888	Seal (Purple)	2
4		Connector Assembly (End Cap - Common)	1
4	1483329	Connector Body	1
4	1487441	Housing	1
4	1482668	Plug (Cavity Plug)	4
5		Connector Assembly (Fuel Pump - Bi-Fuel)	1
5	1308259	Connector Body	1
5	314775	Terminal	2
6		Connector Assembly (EGO2 - Common)	1
6	1498424	Housing	1
6	1650797	Lock	1
6	1330355	Terminal	4
6	1476108	Wire Seal (White)	4
7		Connector Assembly (CYL1 - Common)	1
7	4612989	Connector	1
7	4612978	Terminal	3
7	4614516	Wire Seal	3
8	1509890	Clip	3
9		Connector Assembly (CYL2 - Common)	1
9	4612989	Connector	1
9	4612978	Terminal	3
9	4614516	Wire Seal	3
10		Connector Assembly (Lock Off - Common)	1
10	1539872	Connector	1
10	1345690	Terminal (E FTG SEC LOCK)	1
10	1330355	Terminal	2
10	1476108	Wire Seal (White)	2
11		Connector Assembly (CYL3 - Common)	1
11	4612989	Connector	1
11	4612978	Terminal	3
11	4614516	Wire Seal	3
12	1509888	Clip	1
13		Connector Assembly (CYL4 - Common)	1
13	4612989	Connector	1
13	4612978	Terminal	3
13	4614516	Wire Seal	3

WIRE HARNESS

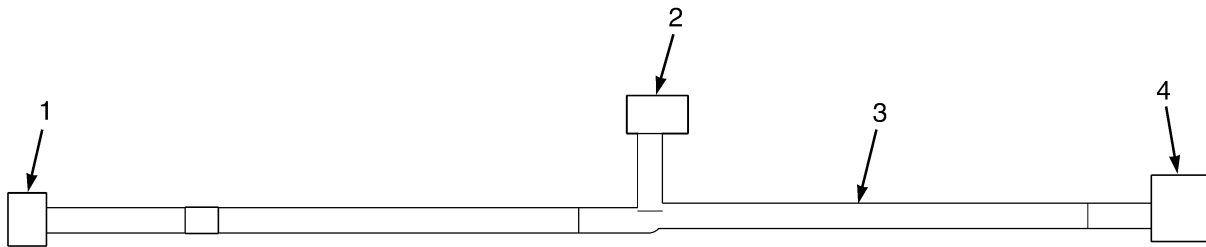
ENGINE – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
14		Connector Assembly (Oil Pressure - Common)	1
14	1402823	Connector	1
15		Connector Assembly (Diagnostic - Common)	1
15	1641944	Connector	1
15	1641945	Spacer	1
16		Connector Assembly (Endcap)	1
17	1641947	Cap	1
18	1402815	Clip	2
19		Connector Assembly (CYL INJ 1 - Bi-Fuel)	1
19	4063797	Connector	1
19	4073259	Connector Lock (Secondary)	1
19	1402919	Terminal	2
19	1503648	Connector Seal	2
20		Connector Assembly (CYL INJ 2 - Bi-Fuel)	1
20	4063797	Connector	1
20	4073259	Connector Lock (Secondary)	1
20	1402919	Terminal	2
20	1503648	Connector Seal	2
21	1498044	Fuse (5 Amp)	2
22		Connector Assembly (DEPR - Common)	1
22	4612836	Connector	1
22	4612844	Connector Lock	1
22	2314741	Terminal	6
22	2061333	Wire Seal	6
23		Connector Assembly (CYL INJ 3 - Bi-Fuel)	1
23	4063797	Connector	1
23	4073259	Connector Lock (Secondary)	1
23	1402919	Terminal	2
23	1503648	Connector Seal	2
24		Connector Assembly (CYL INJ 4 - Bi-Fuel)	1
24	4063797	Connector	1
24	4073259	Connector Lock (Secondary)	1
24	1402919	Terminal	2
24	1503648	Connector Seal	2
25		Connector Assembly (TMAP - Common)	1
25	1567469	Plug	1
25	4053417	Terminal	4
25	1567470	Wire Seal	4
26		Connector Assembly (Throttle - Common)	1
26	1569973	Connector Body	1
26	1525596	Terminal	6
26	1533810	Seal (Green)	6
27	147006	Clamp	2
28		Connector Assembly (ECT - Common)	1
28	4062635	Connector	1
28	4073293	Connector Lock (Secondary)	1
28	1548517	Terminal (Socket)	2
28	1548519	Seal	2
29		Connector Assembly (Alternator Negative - Common)	1
29	4062637	Terminal	1

WIRE HARNESS
ENGINE – PSI 2.4L LPG AND 2.4L BI-FUEL

ITEM	PART NO.	DESCRIPTION	QTY
30		Connector Assembly (CAM Sensor Common)	1
30	4062712	Connector	1
30	4053417	Terminal	3
30	1567470	Wire Seal	3
31		Connector Assembly (ECM - Common)	1
31	1641949	Connector	1
31	1607549	Terminal	44
31	4025685	Plug	40
31	4023295	Terminal	6
32		Connector Assembly (VSW 5A - Common)	1
32	1602431	Fuse Holder	1
33		Connector Assembly (To Frame Harness - Common)	1
33	4047908	Connector	1
33	1352603	Secondary Lock	1
33	1330437	Terminal (Pin)	10
33	1363885	Terminal (Pin)	2
34	1498046	Fuse (10 Amp)	1
35		Connector Assembly (Fuel Pump 10A - Bi-Fuel)	1
35	1602431	Fuse Holder	1
36		Connector Assembly (VSS - Common)	1
36	4128658	Connector	1
37	1532571	Terminal	6
37		Connector Assembly (ACC Pedal Sensor - Common)	1
37	1525584	Connector	1
38	1532761	Clip	4
39	1532774	Clip	4
40		Connector Assembly (Crank Sensor - Common)	1
40	4062635	Connector	1
40	4073293	Connector Lock (Secondary)	1
40	1548517	Terminal (Socket)	2
40	1548519	Seal	2
41	148616	E-Ring (Ground - Common)	1
42		Connector Assembly (EGO1 - Common)	1
42	1498424	Housing	1
42	1650797	Lock	1
42	1330355	Terminal	4
42	1476108	Wire Seal (White)	4

WIRE HARNESS (FIGURE 5-20) HAZARD LIGHT



BP082191

ITEM	PART NO.	DESCRIPTION	QTY
	4654935	Wire Harness	1
1		Connector Assembly (Switch)	1
1	2081332	Electrical Connector	1
1	233141	Terminal	4
2		Connector Assembly (Cowl Harness)	1
2	4648567	Connector	1
2	4648568	Connector Lock	1
2	4648519	Terminal	5
2	4648517	Terminal	1
3	275495	Conduit	AR
4		Connector Assembly (Light/Turn Switch)	1
4	4648569	Connector	1
4	4648568	Connector Lock	1
4	4648518	Terminal	5
4	4648516	Terminal	1

WIRE HARNESS (FIGURE 5-21)
SEAT BELT

BP082247

ITEM	PART NO.	DESCRIPTION	QTY
	4653525	Wire Harness (Seat Belt Ext)	1
1		Connector Assembly (Seat Belt Seq Harness)	1
1	1490242	Connector (2 Way)	1
1	1490243	Connector (Secondary Lock)	1
1	1330438	Terminal (Socket)	2
2		Connector Assembly (Seat Belt)	1
2	1493465	Connector (2 Pin)	1
2	1330414	Connector (Secondary Lock)	1
2	1330437	Terminal (Pin)	2

WIRE HARNESS (FIGURE 5-22) SEAT BELT INTERLOCK



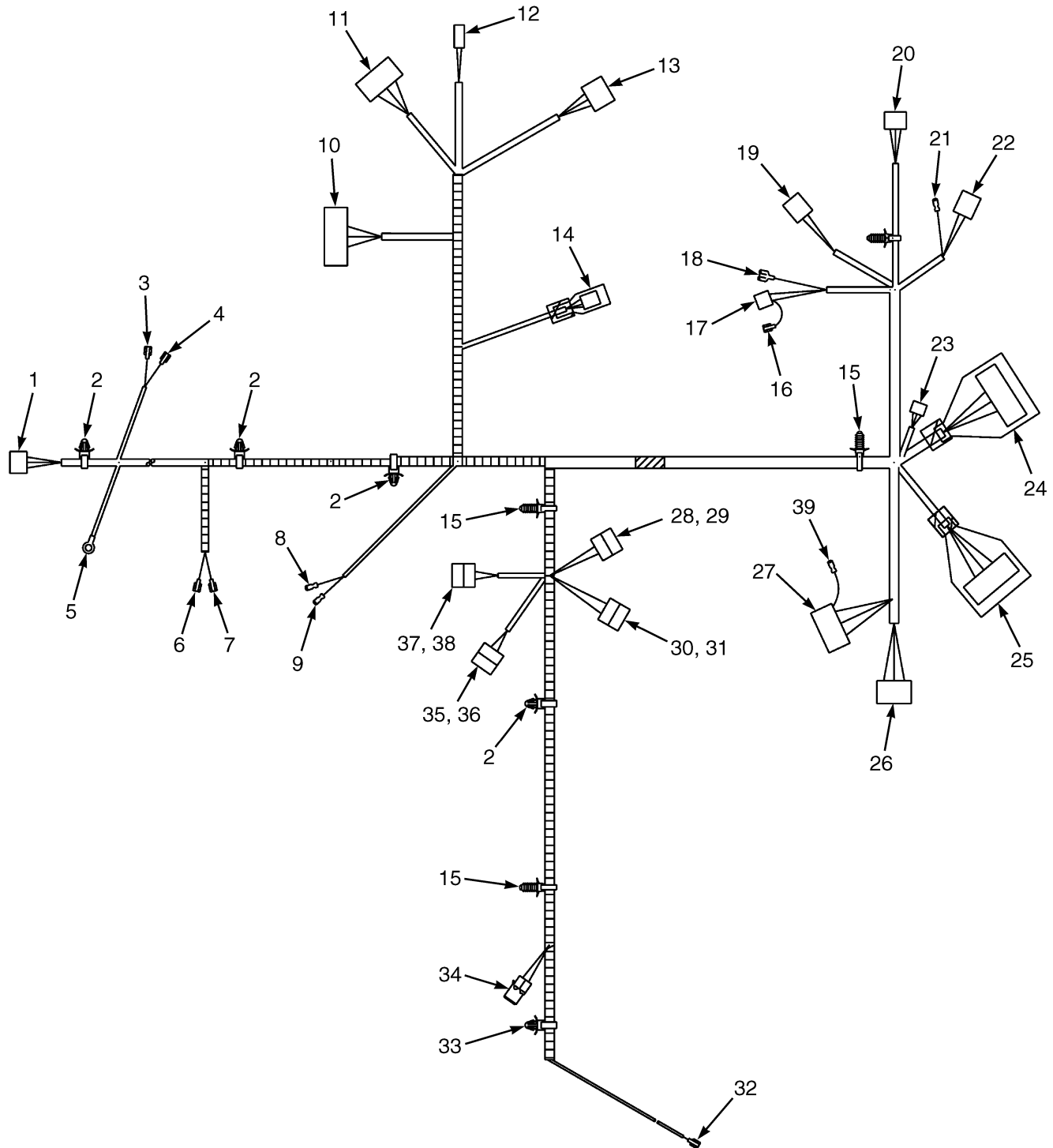
BP082460

ITEM	PART NO.	DESCRIPTION	QTY
	4656381	Wire Harness (Seat Belt Interlock)	1
1		Connector Assembly (CRP52S Wire Harness Frame)	1
1	1463184	Connector	1
1	4046140	Connector (DTM REC 4-Pin)	1
1	1463193	Plug	1
1	1484377	Connector Assembly (CPS310 Control Module)	1
2		Connector (DT PLU 8-Socket)	1
2	1502625	Connector (Secondary Lock)	1
2	1484377	Plug	1
3		Connector Assembly (CRP75 Seat Belt Switch Harness)	1
3	1493465	Connector (2 Pin)	1
3	1330414	Connector (Secondary Lock)	1
4		Connector Assembly (CPS52S Wire Harness Seat)	1
4	1463189	Connector	1
4	1463196	Connector (DTM PLU 4-Socket)	1
4	1484377	Plug	1
5	2081253	Clip	1
6	2081255	Clip	1

NOTES

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WIRE HARNESS (FIGURE 5-23) COWL — FORWARD AND REVERSE LEVER



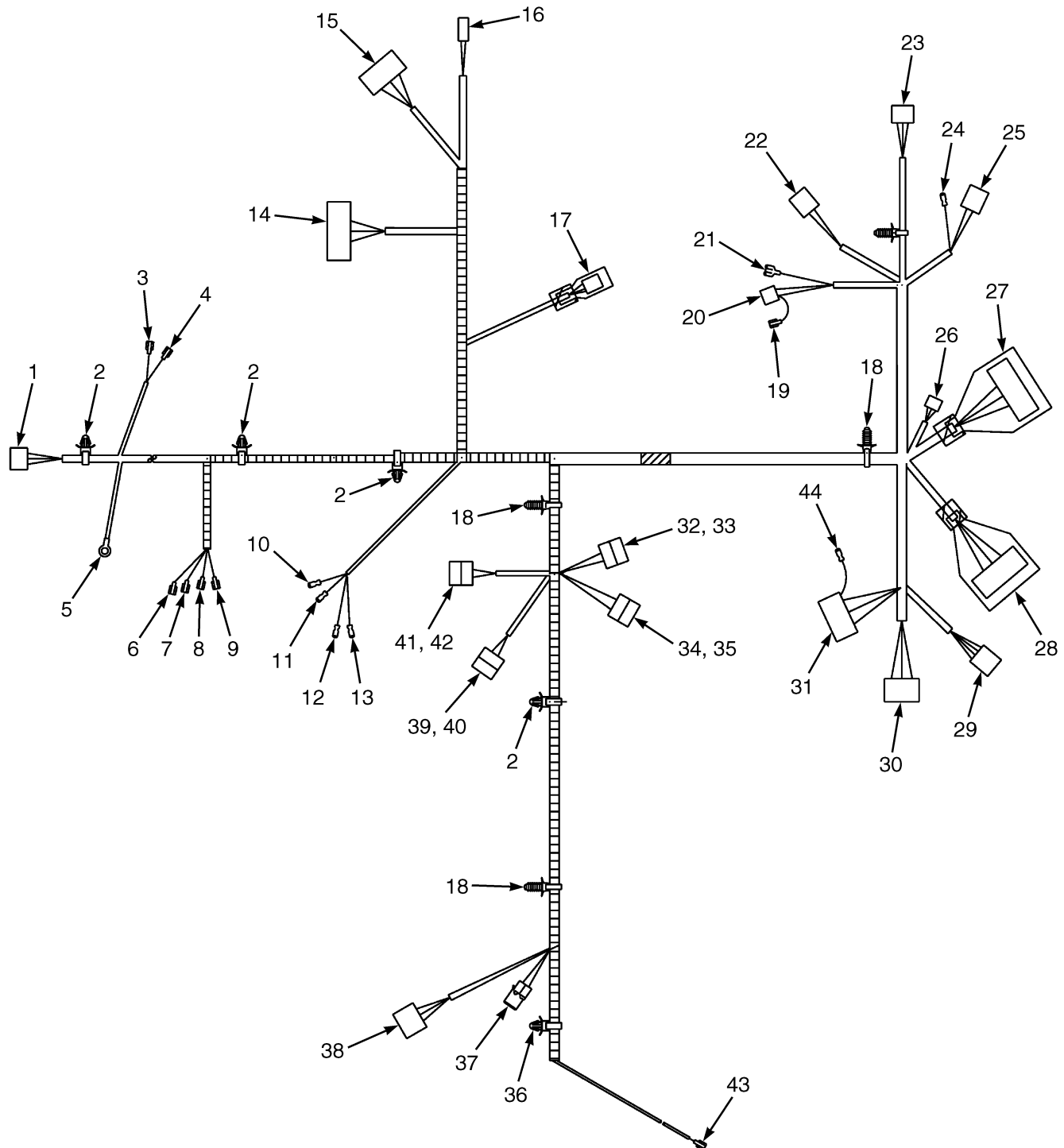
BP082243

WIRE HARNESS

COWL – FORWARD AND REVERSE LEVER

ITEM	PART NO.	DESCRIPTION	QTY
	4641177	Wire Harness (Cowl)	1
1	2314777	Connector Body (CPS4A Wire Harness - Front Light, LH)	1
2	2081255	Clip	4
3	4644502	Electrical Terminal (T89A Horn)	1
4	4644502	Electrical Terminal (T89B Horn)	1
5	1493458	E-Ring (T316 Earth)	1
6	4644502	Electrical Terminal (T22A-NO Park Brake Switch)	1
7	4644502	Electrical Terminal (T22B-NO Park Brake Switch)	1
8	1324310	Terminal (T317A Stop Lamp Switch)	1
9	1324310	Terminal (T318A Stop Lamp Switch)	1
10		Connector Assembly (CPS50 Display, CN5)	1
10		Connector Assembly (CPS50 Display, CN5)	1
11	4648567	Connector (CPS314 Light/Turn Switch)	1
11	4648568	Connector Lock (CPS314 Light/Turn Switch)	1
12		Connector Assembly (CPS76 Horn Switch)	1
12		Connector Assembly (CPS76 Horn Switch)	1
13		Connector Assembly (CPS349 Forward/Reverse Switch)	1
13		Connector Assembly (CPS349 Forward/Reverse Switch)	1
14	2314778	Cover (CPS313 Ignition Switch)	1
15	2081253	Clip	3
16	1324310	Terminal (TS413 Telemetry)	1
17		Connector Assembly (CRS315 Horn Relay)	1
18	2044949	Terminal (TS321 Telemetry/Speed Limiter)	1
19	2022901	Connector Body (CPS322 Cab)	1
20	2314777	Connector Body (CPS4B Wire Harness - Front Light, RH)	1
21	1324310	Terminal (T319 Horn Button Option)	1
22	2022901	Connector Body (CPS323 Hydraulic/SBS)	1
23	2050634	Connector (CRP88 CAN Connection)	1
23	2050635	Connector Lock (CRP88 CAN Connection)	1
24	2081173	Cover (CRP84A Wire Harness - Frame, CN1)	1
25	2081173	Cover (CRP84B Wire Harness - Frame, CN2)	1
26		Connector Assembly (CPS1 V-ECU, CN3)	1
27		Connector Assembly (CPS5 V-ECU, CN4)	1
28	4613153	Connector (CPS354 Speed Sensor)	1
29	4613154	Connector (CRS354 End Cap, Speed Sensor)	1
29	4613011	Plug (CRS354 End Cap, Speed Sensor)	1
30	4612835	Connector (CPS149 Pressure Sensor)	1
30	2314770	Connector Lock (CPS149 Pressure Sensor)	1
31	2050634	Connector (CRS149 End Cap, Pressure Sensor)	1
31	2314771	Plug (CRS149 End Cap, Pressure Sensor)	1
32	4644502	Electrical Terminal (T51 Torque Converter Oil Thermo Switch)	1
33	2081254	Clip	1
34	4613115	Connector (CPS57 Forward/Reverse Solenoid)	1
35		Connector Assembly (CPS151 Lowering Solenoid)	1
36		End Cap (CRS151 End Cap, Lowering Solenoid)	1
37		Connector Assembly (CPS150 Unload Solenoid)	1
38		End Cap (CRS150 End Cap, Unload Solenoid)	1
39	1324310	Terminal (TS326 Option Speed Alarm)	1

WIRE HARNESS (FIGURE 5-24) COWL — MONOTROL PEDAL



BP082244

**WIRE HARNESS
COWL – MONOTROL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
	4641181	Wire Harness (Cowl)	1
1	2314777	Connector Body (CPS4A Wire Harness - Front Light, LH)	1
2	2081255	Clip	4
3	4644502	Electrical Terminal (T89A Horn)	1
4	4644502	Electrical Terminal (T89B Horn)	1
5	1493458	E-Ring (T316 Earth)	1
6	4644502	Electrical Terminal (T22C-NC Park Brake Switch)	1
7	4644502	Electrical Terminal (T22D-NC Park Brake Switch)	1
8	4644502	Electrical Terminal (T22A-NO Park Brake Switch)	1
9	4644502	Electrical Terminal (T22B-NO Park Brake Switch)	1
10	1324310	Terminal (T317A Stop Lamp Switch)	1
11	1324310	Terminal (T317B Stop Lamp Switch)	1
12	1324310	Terminal (T318A Neutral Switch)	1
13	1324310	Terminal (T318B Neutral Switch)	1
14		Connector Assembly (CPS50 Display, CN5)	1
14		Connector Assembly (CPS50 Display, CN5)	1
15	4648567	Connector (CPS314 Light/Turn Switch)	1
15	4648568	Connector Lock (CPS314 Light/Turn Switch)	1
16		Connector Assembly (CPS76 Horn Switch)	1
16		Connector Assembly (CPS76 Horn Switch)	1
17	2314778	Cover (CPS313 Ignition Switch)	1
17	370728	Connector Body (CPS313 Ignition Switch)	1
18	2081253	Clip	3
19	1324310	Terminal (TS413 Telemetry)	1
20		Connector Assembly (CRS315 Horn Relay)	1
21	2044949	Terminal (TS321 Telemetry/Speed Limiter)	1
22	2022901	Connector Body (CPS322 Cab)	1
23	2314777	Connector Body (CPS4B Wire Harness - Front Light, RH)	1
24	1324310	Terminal (T319 Horn Button Option)	1
25	2022901	Connector Body (CPS323 Hydraulic/SBS)	1
26	2050634	Connector (CRP88 CAN Connection)	1
26	2050635	Connector Lock (CRP88 CAN Connection)	1
27		Connector Assembly (CRP84A Wire Harness - Frame, CN1)	1
28		Connector Assembly (CRP84B Wire Harness - Frame, CN2)	1
29	2050634	Connector (CRP26 Monotrol Transmission Control Switch)	1
29	2050635	Connector Lock (CRP26 Monotrol Transmission Control Switch)	1
30		Connector Assembly (CPS1 V-ECU, CN3)	1
31		Connector Assembly (CPS5 V-ECU, CN4)	1
32	4613153	Connector (CPS354 Speed Sensor)	1
33	4613154	Connector (CRS354 End Cap, Speed Sensor)	1
34	4612835	Connector (CPS149 Pressure Sensor)	1
35	2050634	Connector (CRS149 End Cap, Pressure Sensor)	1
36	2081254	Clip	1
37	4613115	Connector (CPS57 Forward/Reverse Solenoid)	1
38	346330	Connector Body (CPS25 Service Brake Switch)	1
39		Connector Assembly (CPS151 Lowering Solenoid)	1
40		End Cap (CRS151 End Cap, Lowering Solenoid)	1
41		Connector Assembly (CPS150 Unload Solenoid)	1
42		End Cap (CRS150 End Cap, Unload Solenoid)	1
43	4644502	Electrical Terminal (T51 Torque Converter Oil Thermo Switch)	1

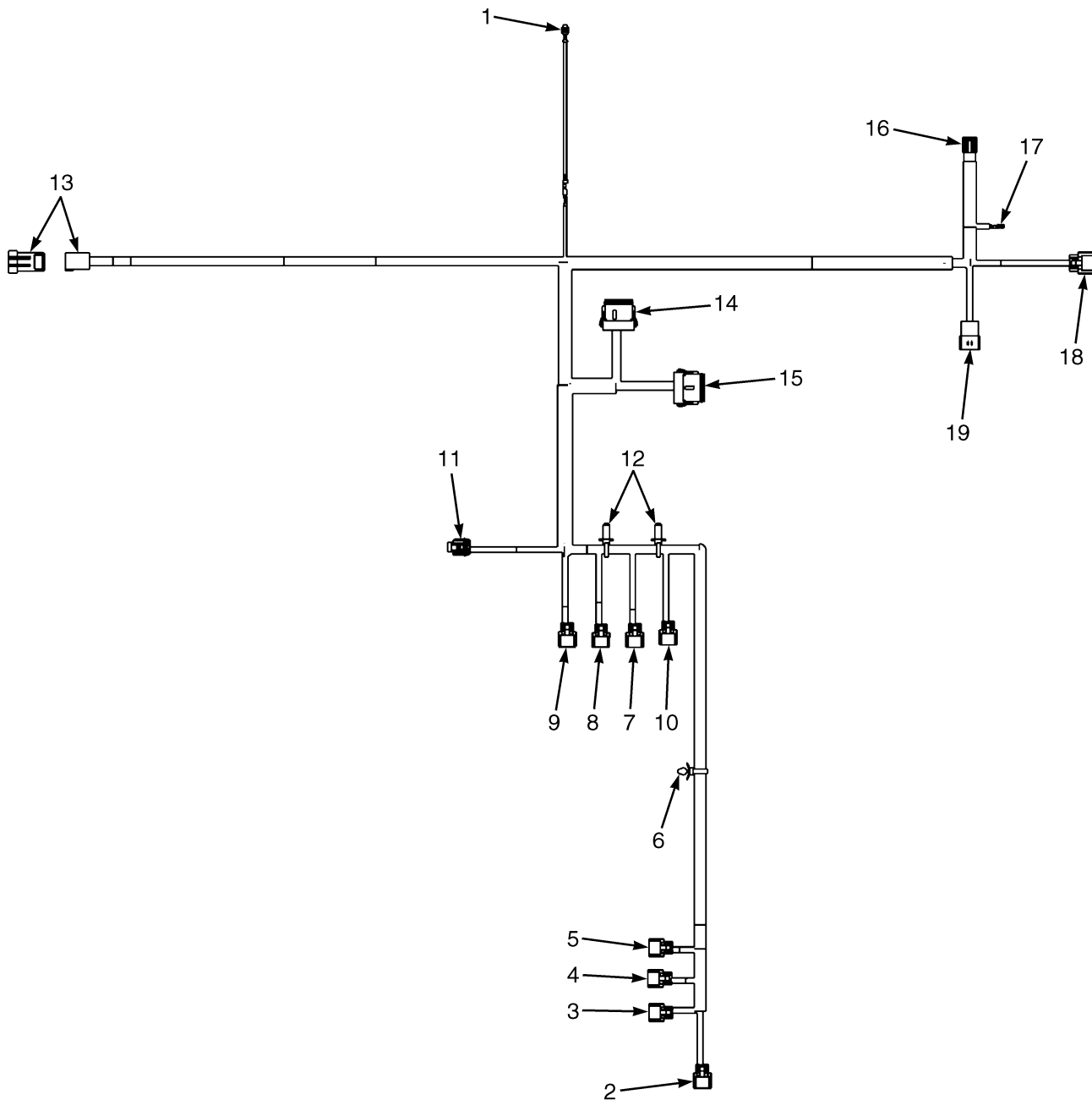
**WIRE HARNESS
COWL – MONOTROL PEDAL**

ITEM	PART NO.	DESCRIPTION	QTY
44	1324310	Terminal (TS326 Option Speed Alarm)	1

NOTES

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WIRE HARNESS (FIGURE 5-25) E-HYDRAULICS



BP082394

**WIRE HARNESS
E-HYDRAULICS**

ITEM	PART NO.	DESCRIPTION	QTY
	4653938	Wire Harness (E-Hyd 3 Function)	1
	4653937	Wire Harness (E-Hyd 4 Function)	1
1	1402908	Terminal (Ignition Switch ACC)	1
2		Connector Assembly (CPS99 1A Lift)	1
2	4612834	Connector	1
2	4612843	Connector Lock	1
2	4612827	Terminal	2
2	2061333	Wire Seal	2
3		Connector Assembly (CPS101 2A Tilt)	1
3	4612834	Connector	1
3	4612843	Connector Lock	1
3	4612827	Terminal	2
3	2061333	Wire Seal	2
4		Connector Assembly (CPS103 3A Aux 1)	1
4	4612834	Connector	1
4	4612843	Connector Lock	1
4	4612827	Terminal	1
4	2314741	Terminal	1
4	2061333	Wire Seal	2
5	a	Connector Assembly (CPS105 4A Aux 2)	1
5	4612834	Connector	1
5	4612843	Connector Lock	1
5	4612827	Terminal	1
5	2061333	Wire Seal	2
5	2314741	Terminal	1
6	2081255	Clip	1
7		Connector Assembly (CPS103 3B Aux 1)	1
7	4612834	Connector	1
7	4612843	Connector Lock	1
7	2314741	Terminal	1
7	4612827	Terminal	1
7	2061333	Wire Seal	2
8		Connector Assembly (CPS102 2B Tilt)	1
8	4612834	Connector	1
8	4612843	Connector Lock	1
8	4612827	Terminal	1
8	2314741	Terminal	1
8	2061333	Wire Seal	1
9		Connector Assembly (CPS100 1B Lower)	1
9	4612834	Connector	1
9	4612843	Connector Lock	1
9	4612827	Terminal	2
9	2061333	Wire Seal	2
10		Connector Assembly (CPS106 4B Aux2)	1
10	4612834	Connector	1
10	4612843	Connector Lock	1
10	2061333	Wire Seal	2
10	4612827	Terminal	1
10	2314741	Terminal	1
11		Connector Assembly (CPS325 C1-Sol)	1

**WIRE HARNESS
E-HYDRAULICS**

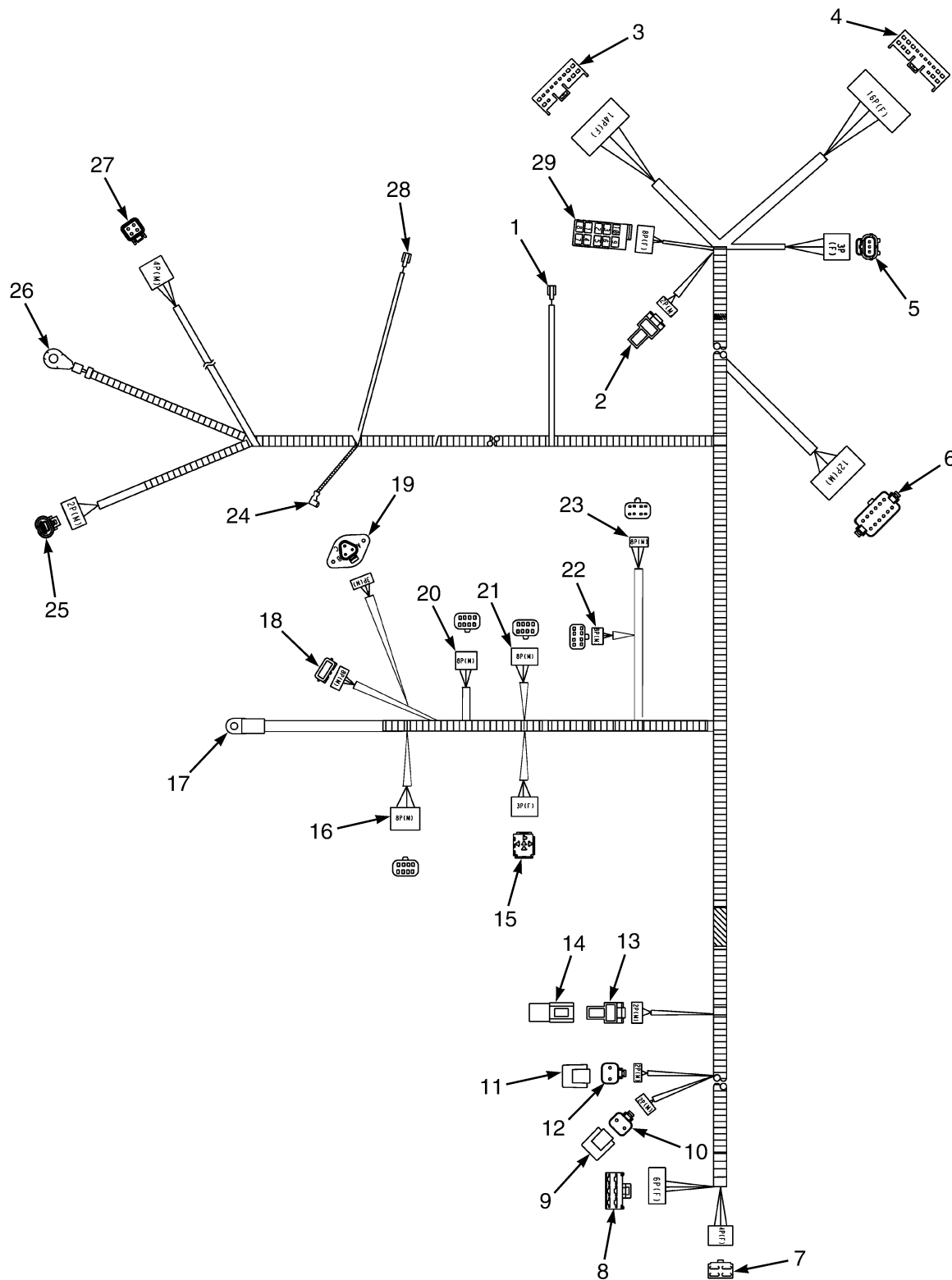
ITEM	PART NO.	DESCRIPTION	QTY
11		Connector	1
11		Retainer	1
12	2081253	Clip	2
13		Connector Assembly (CPS53 Tilt Sensor)	1
13	4614793	Connector	1
13	4614809	Connector Lock	1
13	2314747	Terminal	3
13	4614516	Wire Seal	3
13	2795583	Connector (3 Way) (CRP53 End Cap)	1
14		Connector Assembly (CPS2 Controller C1)	1
14	4108249	Connector	1
14	1330438	Terminal (Socket)	6
14	1484377	Plug	8
14	1597773	Terminal	4
15	a	Connector Assembly (CPS3 Controller C2)	1
15	4108250	Connector	1
15	1597773	Terminal	8
15	1484377	Plug	6
15	1330438	Terminal (Socket)	4
16		Connector Assembly (CRP323E Cowl Harness)	1
16	2049855	Connector	1
16	2314741	Terminal	6
16	2061333	Wire Seal	6
17	1324308	Terminal (TP319 Cowl Harness)	1
18		Connector Assembly (CPS88E Can Connection)	1
18	4612835	Connector	1
18	2314770	Connector Lock	1
18	4612827	Terminal	2
18	2314741	Terminal	1
18	2061333	Wire Seal	3
19		Connector Assembly (CRP88E Can Connector)	1
19	2050634	Connector	1
19	2050635	Connector Lock	1
19	2061328	Terminal	2
19	2314740	Terminal	1
19	2061333	Wire Seal	3

FOOTNOTES:**a** Used on Four Function Harness

NOTES

[illegible]

WIRE HARNESS (FIGURE 5-26) FRAME — PSI 2.4L LPG AND 2.4L BI-FUEL



BP082434

WIRE HARNESS
FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL**KEY:****A: PSI 2.4L Bi-Fuel****B: PSI 2.4L LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4656443	Wire Harness (PSI 2.4L Bi-Fuel)	1	..
	4656379	Wire Harness (PSI 2.4L LPG)	..	1
1		Connector Assembly (T200 Starter)	1	1
1	1521309	Connector Body	1	1
1	4646194	Boot	1	1
2		Connector Assembly (CPS21 Opt B+)	1	1
2	1308259	Connector Body	1	1
3		Connector Assembly (CPS84B Wire Harness Cowl)	1	1
4		Connector Assembly (CPS84A Wire Harness Cowl)	1	1
5		Connector Assembly (CPS88 Wire Harness Can)	1	1
5	4612835	Connector	1	1
5	2314770	Connector Lock	1	1
6		Connector Assembly (CPS55 Wire Harness Engine)	1	1
6	1525563	Connector	1	1
7		Connector Assembly (CPS17B Rear Light B)	1	1
7	2314777	Connector Body	1	1
8		Connector Assembly (CPS17A Rear Light A)	1	1
9		Connector Assembly (CRP54 End Cap)	1	1
9	1626727	Connector	1	1
10		Connector Assembly (CPS54 Backup Alarm)	1	1
10	1490242	Connector (2 Way)	1	1
10	1490243	Connector (Secondary Lock)	1	1
11		Connector Assembly (CRP79 End Cap)	1	1
11	1626727	Connector	1	1
12		Connector Assembly (Rear Horn Button)	1	1
12	1490242	Connector (2 Way)	1	1
12	1490243	Connector (Secondary Lock)	1	1
13		Connector Assembly (CPS67 Remote Keyswitch)	1	1
13	1308259	Connector Body	1	1
14		Connector Assembly (CRP67 Jumper)	1	1
14	1308260	Connector Body	1	1
15		Connector Assembly (CPS312 Opt Flasher)	1	1
15	2100204	Receptacle	1	1
16		Connector Assembly (CPS20 Fuse Block)	1	1
16	1521185	Connector	1	1
16	1521188	Lock	1	1
16	4045422	Cover	1	1
16	4045423	Bracket	1	1
17		Connector Assembly (T257 PDM+)	1	1
17	148800	Terminal (Battery)	1	1
18		Connector Assembly (CRS221 Alternator Fuse 50 Amp)	1	1
18	4159458	Fuse Holder	1	1
18	1378418	Fuse (50 Amp)	1	1
18	4136560	Fuse Holder	1	1
18	4136561	Cover	1	1

WIRE HARNESS

FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL

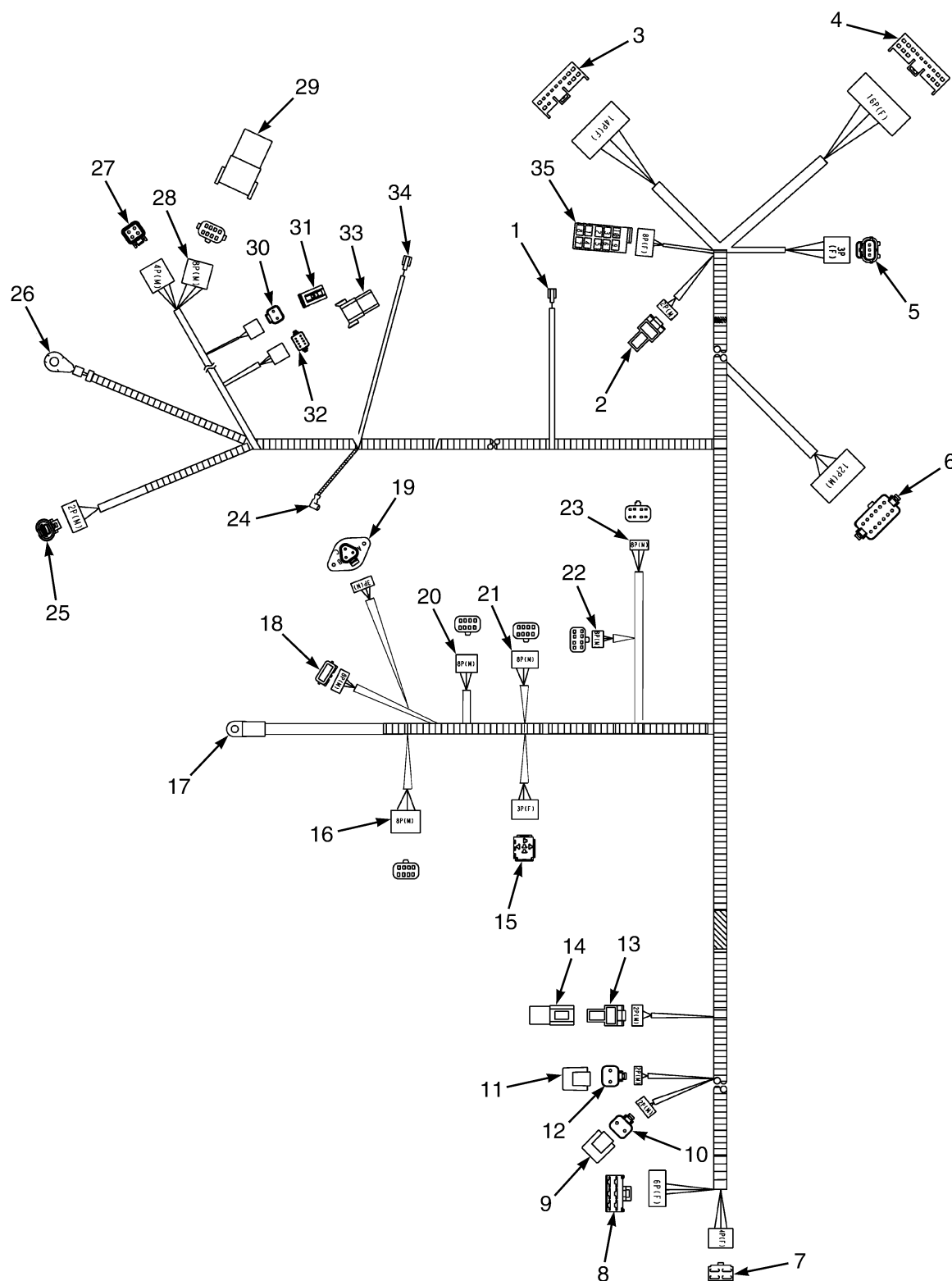
KEY:**A: PSI 2.4L Bi-Fuel****B: PSI 2.4L LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
18	4136562	Terminal	1	1
18	4136563	Wire Seal	1	1
19		Connector Assembly (CPS111 Diagnostic)	1	1
19	1566116	Connector (DT PLU 3-Socket, With Flange)	1	1
19	1532664	Connector (Secondary Lock)	1	1
19	1566117	Dust Cap (For Diagnostic Cable)	1	1
20		Connector Assembly (CPS13 PDM)	1	1
20	1521183	Connector	1	1
20	1521188	Lock	1	1
21		Connector Assembly (CPS14 PDM)	1	1
21	1521184	Connector	1	1
21	1521188	Lock	1	1
22		Connector Assembly (CPS16 PDM)	1	1
22	1521186	Connector	1	1
22	1521188	Lock	1	1
23		Connector Assembly (CPS15 PDM)	1	1
23	1521185	Connector	1	1
23	1521188	Lock	1	1
24		Connector Assembly (TS216 Water Thermo Sender)	1	1
24	2023463	Terminal	1	1
25		Connector Assembly (CPS214 Alternator)	1	1
25	4062635	Connector	1	1
26		Connector Assembly (T215 Alternator)	1	1
26	4062637	Terminal	1	1
26	4646197	Boot	1	1
27		Connector Assembly (CPS52 Wire Harness Seat)	1	1
27	1463189	Connector	1	1
27	1463196	Connector (DTM PLU 4-Socket)	1	1
27	1484377	Plug	1	1
34		Connector Assembly (T69 Fuel Sender)	1	..
34	1402849	Connector Body	1	..
35		Connector Assembly (CPS308 Fuel Select Switch)	1	..
35	2081332	Electrical Connector	1	..

NOTES

[illegible]

WIRE HARNESS (FIGURE 5-27) FRAME — PSI 2.4L LPG AND 2.4L BI-FUEL W/MLM



BP082433

WIRE HARNESS

FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL W/MLM

KEY:**A: PSI 2.4L Bi-Fuel****B: PSI 2.4L LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4655552	Wire Harness (PSI 2.4L Bi-Fuel w/MLM)	1	..
	4655553	Wire Harness (PSI 2.4L LPG w/MLM)	..	1
1		Connector Assembly (T200 Starter)	1	1
1	1521309	Connector Body	1	1
1	4646194	Boot	1	1
2		Connector Assembly (CPS21 Opt B+)	1	1
2	1308259	Connector Body	1	1
3		Connector Assembly (CPS84B Wire Harness Cowl)	1	1
4		Connector Assembly (CPS84A Wire Harness Cowl)	1	1
5		Connector Assembly (CPS88 Wire Harness Can)	1	1
5	4612835	Connector	1	1
5	2314770	Connector Lock	1	1
6		Connector Assembly (CPS55 Wire Harness Engine)	1	1
6	1525563	Connector	1	1
7		Connector Assembly (CPS17B Rear Light B)	1	1
7	2314777	Connector Body	1	1
8		Connector Assembly (CPS17A Rear Light A)	1	1
9		Connector Assembly (CRP54 End Cap)	1	1
9	1626727	Connector	1	1
10		Connector Assembly (CPS54 Backup Alarm)	1	1
10	1490242	Connector (2 Way)	1	1
10	1490243	Connector (Secondary Lock)	1	1
11		Connector Assembly (CRP79 End Cap)	1	1
11	1626727	Connector	1	1
12		Connector Assembly (Rear Horn Button)	1	1
12	1490242	Connector (2 Way)	1	1
12	1490243	Connector (Secondary Lock)	1	1
13		Connector Assembly (CPS67 Remote Keyswitch)	1	1
13	1308259	Connector Body	1	1
14		Connector Assembly (CRP67 Jumper)	1	1
14	1308260	Connector Body	1	1
15		Connector Assembly (CPS312 Opt Flasher)	1	1
15	2100204	Receptacle	1	1
16		Connector Assembly (CPS20 Fuse Block)	1	1
16	1521185	Connector	1	1
16	1521188	Lock	1	1
16	4045422	Cover	1	1
16	4045423	Bracket	1	1
17		Connector Assembly (T257 PDM+)	1	1
17	148800	Terminal (Battery)	1	1
18		Connector Assembly (CRS221 Alternator Fuse 50 Amp)	1	1
18	4159458	Fuse Holder	1	1
18	1378418	Fuse (50 Amp)	1	1
19		Connector Assembly (CPS111 Diagnostic)	1	1
19	1566116	Connector (DT PLU 3-Socket, With Flange)	1	1

WIRE HARNESS

FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL W/MLM

KEY:**A: PSI 2.4L Bi-Fuel****B: PSI 2.4L LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
19	1532664	Connector (Secondary Lock)	1	1
19	1566117	Dust Cap (For Diagnostic Cable)	1	1
20		Connector Assembly (CPS13 PDM)	1	1
20	1521183	Connector	1	1
20	1521188	Lock	1	1
21		Connector Assembly (CPS14 PDM)	1	1
21	1521184	Connector	1	1
21	1521188	Lock	1	1
22		Connector Assembly (CPS16 PDM)	1	1
22	1521186	Connector	1	1
22	1521188	Lock	1	1
23		Connector Assembly (CPS15 PDM)	1	1
23	1521185	Connector	1	1
23	1521188	Lock	1	1
24		Connector Assembly (TS216 Water Thermo Sender)	1	1
24	2023463	Terminal	1	1
25		Connector Assembly (CPS214 Alternator)	1	1
25	4062635	Connector	1	1
26		Connector Assembly (T215 Alternator)	1	1
26	4062637	Terminal	1	1
26	4646197	Boot	1	1
27		Connector Assembly (CPS52 Wire Harness Seat)	1	1
27	1463189	Connector	1	1
27	1463196	Connector (DTM PLU 4-Socket)	1	1
27	1484377	Plug	1	1
28		Connector Assembly (CPS90 MLM)	1	1
28	1541991	Connector (DTM PLU 8-Socket)	1	1
28	1541992	Connector (Secondary Lock)	1	1
28	1463139	Terminal	1	1
28	1463141	Terminal (Socket)	1	1
28	1484377	Plug	1	1
29		Connector Assembly (CRP90 End Cap)	1	1
29	1541988	Connector (8 Pin)	1	1
29	1484377	Plug	1	1
30		Connector Assembly (CRP75 Seat Belt Switch Harness)	1	1
30	1493465	Connector (2 Pin)	1	1
30	1330414	Connector (Secondary Lock)	1	1
30	1531312	Terminal	1	1
31		Connector Assembly (CPS75 End Cap)	1	1
31	1490242	Connector (2 Way)	1	1
31	1490243	Connector (Secondary Lock)	1	1
32		Connector Assembly (CPS310 Control Module)	1	1
32	1502625	Connector (DT PLU 8-Socket)	1	1
32	1502626	Connector (Secondary Lock)	1	1
32	1484377	Plug	1	1

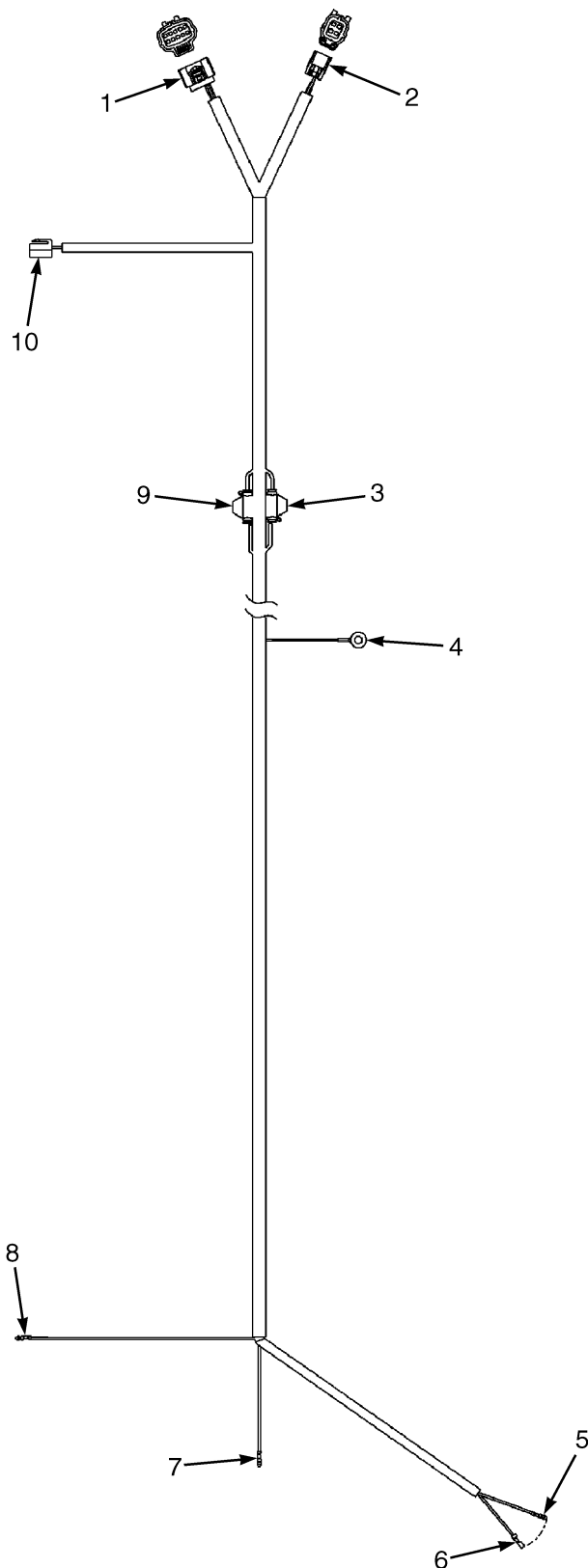
WIRE HARNESS

FRAME – PSI 2.4L LPG AND 2.4L BI-FUEL W/MLM

KEY:**A: PSI 2.4L Bi-Fuel****B: PSI 2.4L LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
32	1330438	Terminal (Socket)	1	1
32	1597773	Terminal	1	1
33		Connector Assembly (CRP310 End Cap)	1	1
33	1623050	Housing	1	1
33	1330418	Connector (DT REC 8-Pin)	1	1
33	1531212	Stud	1	1
33	1484377	Plug	1	1
34		Connector Assembly (T69 Fuel Sender)	1	..
34	1402849	Connector Body	1	..
35		Connector Assembly (CPS308 Fuel Select Switch)	1	..
35	2081332	Electrical Connector	1	..

WIRE HARNESS (FIGURE 5-28) SPEED LIMITER



BP082469

**WIRE HARNESS
SPEED LIMITER**

ITEM	PART NO.	DESCRIPTION	QTY
	4655901	Wire Harness (Speed Limiter)	1
1		Connector Assembly (CPS335 Driver Speed Limiter)	..
1	4612838	Connector	1
1	2314775	Connector Lock	1
1	2314771	Plug	1
2		Connector Assembly (CPS336 Driver Speed Limiter)	..
2	2314772	Connector	1
2	2314773	Connector Lock	1
3		Connector Assembly (CRS342 Fuse B)	..
3	2081171	Fuse Holder	1
3	4087450	Fuse (2 Amp)	1
4		Connector Assembly (T338 Ground)	..
4	1402620	Ring Terminal	1
5		Connector Assembly (TP339 Indicator)	..
5	1324308	Terminal	1
6		Connector Assembly (TS340 Indicator)	..
6	1324310	Terminal	1
7		Connector Assembly (TP326 Wire Harness Cowl)	..
7	1324308	Terminal	1
8		Connector Assembly (TP321 Wire Harness Cowl)	..
8	1324308	Terminal	1
9		Connector Assembly (CRS341 Fuse A)	..
9	2081171	Fuse Holder	1
9	4087450	Fuse (2 Amp)	1
10		Connector Assembly (CPS337 Actuator)	..
10	1361304	Connector Body	1

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**WIRE HARNESS
FRAME – YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	4656380	Wire Harness (Frame / Yanmar Diesel)	1
1		Connector Assembly (CPS52 Wire Harness Seat)	1
1	1463189	Connector	1
1	1463196	Connector (DTM PLU 4-Socket)	1
1	1484377	Plug	1
2		Connector Assembly (TS201 Oil Pressure Switch)	1
2	1324310	Terminal	1
3		Connector Assembly (CPS227 Sedimenter)	1
4		Connector Assembly (T69 Fuel Sender)	1
4	1402849	Connector Body	1
5		Connector Assembly (T200 Starter)	1
5	148609	E-Ring	1
5	4646194	Boot (Terminal)	1
6		Connector Assembly (CPS21 Opt B+)	1
6	1308259	Connector Body	1
7		Connector Assembly (CPS84B Wire Harness Cowl)	1
8		Connector Assembly (CRP78 Terminating Resistor)	1
8	1547847	Resistor	1
9		Connector Assembly (CPS78 Terminating Resistor)	1
9	1484557	Connector (2 Socket)	1
10		Connector Assembly (CPS84A Wire Harness Cowl)	1
11		Connector Assembly (CPS88 Wire Harness Cowl)	1
11	4612835	Connector	1
11	2314770	Connector Lock	1
12		Connector Assembly (CPS203 QGS Controller)	1
12	4612972	Connector	1
12	4610605	Plug	1
13		Connector Assembly (CPS204 QGS Controller)	1
14		Connector Assembly (CPS17B Rear Light B)	1
14	2314777	Connector Body	1
15		Connector Assembly (CPS17A Rear Light A)	1
16		Connector Assembly (CPS54 Backup Alarm)	1
16	1490242	Connector (2 Way)	1
16	1490243	Connector (Secondary Lock)	1
17		Connector Assembly (CRP54 End Cap)	1
17	1626727	Connector	1
18		Connector Assembly (CPS79 Rear Horn Button)	1
18	1490242	Connector (2 Way)	1
18	1490243	Connector (Secondary Lock)	1
19		Connector Assembly (CRP79 End Cap)	1
19	1626727	Connector	1
20		Connector Assembly (CPS67 Remote Keyswitch)	1
20	1308259	Connector Body	1
21		Connector Assembly (CRP67 Jumper)	1
21	1308260	Connector Body	1
22		Connector Assembly (CPS214 Alternator)	1
22	1361304	Connector Body	1
23		Connector Assembly (TS216 Water Thermo Sender)	1
23	2023463	Terminal	1
24		Connector Assembly (T224 Glow Plug)	1

WIRE HARNESS

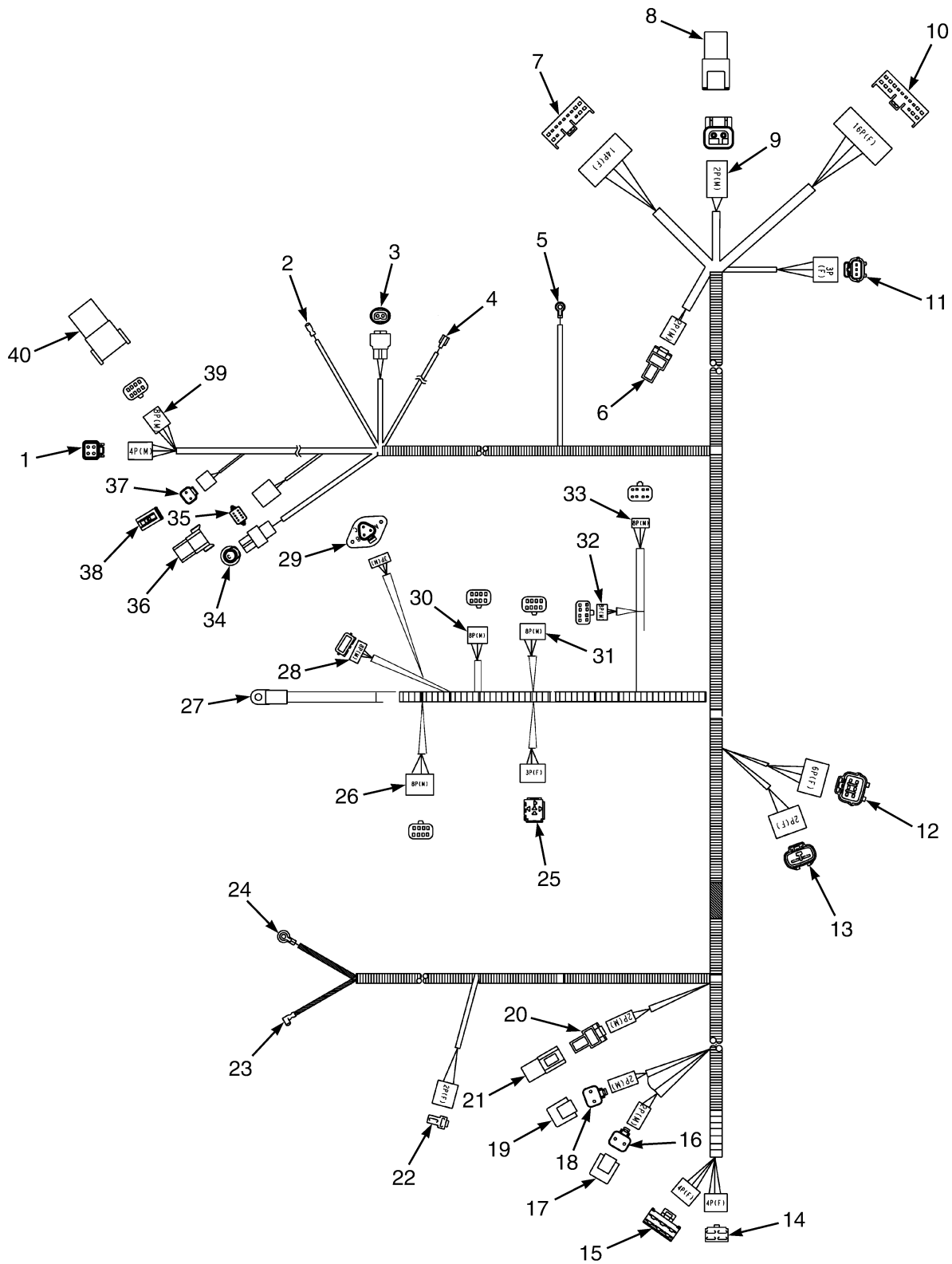
FRAME – YANMAR DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
24	1550626	E-Ring	1
24	1520864	Boot	1
25		Connector Assembly (CPS312 Opt Flasher)	1
25	2100204	Receptacle (Mini Relay)	1
26		Connector Assembly (CPS20 Fuse Block)	1
26	1521185	Connector	1
26	1521188	Lock	1
26	4045422	Cover	1
26	4045423	Bracket	1
27		Connector Assembly (T257 PDM+)	1
27	148800	Terminal (Battery)	1
28		Connector Assembly (CRS221 Glow Plug Fuse 60 Amp)	1
28	4159458	Fuse Holder (Maxi Fuse Kit 80 Amp)	1
28	1454829	Fuse (60 Amp)	1
28	4136560	Fuse Holder	1
28	4136561	Cover	1
28	4136562	Terminal	1
28	4136563	Wire Seal	1
29		Connector Assembly (CPS111 Diagnostic)	1
29	1566116	Connector (DT PLU 3-Socket, With Flange)	1
29	1532664	Connector (Secondary Lock)	1
29	1566117	Dust Cap (For Diagnostic Cable)	1
30		Connector Assembly (CPS13 PDM)	1
30	1521183	Connector	1
30	1521188	Lock	1
31		Connector Assembly (CPS14 PDM)	1
31	1521184	Connector	1
31	1521188	Lock	1
32		Connector Assembly (CPS16 PDM)	1
32	1521186	Connector	1
32	1521188	Lock	1
33		Connector Assembly (CPS15 PDM)	1
33	1521185	Connector	1
33	1521188	Lock	1
34		Connector Assembly (CPS207 Fuel Shut-off Solenoid)	1
34	1351070	Connector Body	1

NOTES

[illegible]

WIRE HARNESS (FIGURE 5-30) FRAME — YANMAR DIESEL W/MLM



BP082431

WIRE HARNESS
FRAME – YANMAR DIESEL W/MLM

ITEM	PART NO.	DESCRIPTION	QTY
	4655683	Wire Harness (Frame / Yanmar Diesel w/MLM)	1
1		Connector Assembly (CPS52 Wire Harness Seat)	1
1	1463189	Connector	1
1	1463196	Connector (DTM PLU 4-Socket)	1
1	1484377	Plug	1
2		Connector Assembly (TS201 Oil Pressure Switch)	1
2	1324310	Terminal	1
3		Connector Assembly (CPS227 Sedimenter)	1
4		Connector Assembly (T69 Fuel Sender)	1
4	1402849	Connector Body	1
5		Connector Assembly (T200 Starter)	1
5	148609	E-Ring	1
5	4646194	Boot (Terminal)	1
6		Connector Assembly (CPS21 Opt B+)	1
6	1308259	Connector Body	1
7		Connector Assembly (CPS84B Wire Harness Cowl)	1
8		Connector Assembly (CRP78 Terminating Resistor)	1
8	1547847	Resistor	1
9		Connector Assembly (CPS78 Terminating Resistor)	1
9	1484557	Connector (2 Socket)	1
10		Connector Assembly (CPS84A Wire Harness Cowl)	1
11		Connector Assembly (CPS88 Wire Harness Cowl)	1
11	4612835	Connector	1
11	2314770	Connector Lock	1
12		Connector Assembly (CPS203 QGS Controller)	1
12	4612972	Connector	1
12	4610605	Plug	1
13		Connector Assembly (CPS204 QGS Controller)	1
14		Connector Assembly (CPS17B Rear Light B)	1
14	2314777	Connector Body	1
15		Connector Assembly (CPS17A Rear Light A)	1
16		Connector Assembly (CPS54 Backup Alarm)	1
16	1490242	Connector (2 Way)	1
16	1490243	Connector (Secondary Lock)	1
17		Connector Assembly (CRP54 End Cap)	1
17	1626727	Connector	1
18		Connector Assembly (CPS79 Rear Horn Button)	1
18	1490242	Connector (2 Way)	1
18	1490243	Connector (Secondary Lock)	1
19		Connector Assembly (CRP79 End Cap)	1
19	1626727	Connector	1
20		Connector Assembly (CPS67 Remote Keyswitch)	1
20	1308259	Connector Body	1
21		Connector Assembly (CRP67 Jumper)	1
21	1308260	Connector Body	1
22		Connector Assembly (CPS214 Alternator)	1
22	1361304	Connector Body	1
23		Connector Assembly (TS216 Water Thermo Sender)	1
23	2023463	Terminal	1
24		Connector Assembly (T224 Glow Plug)	1

WIRE HARNESS

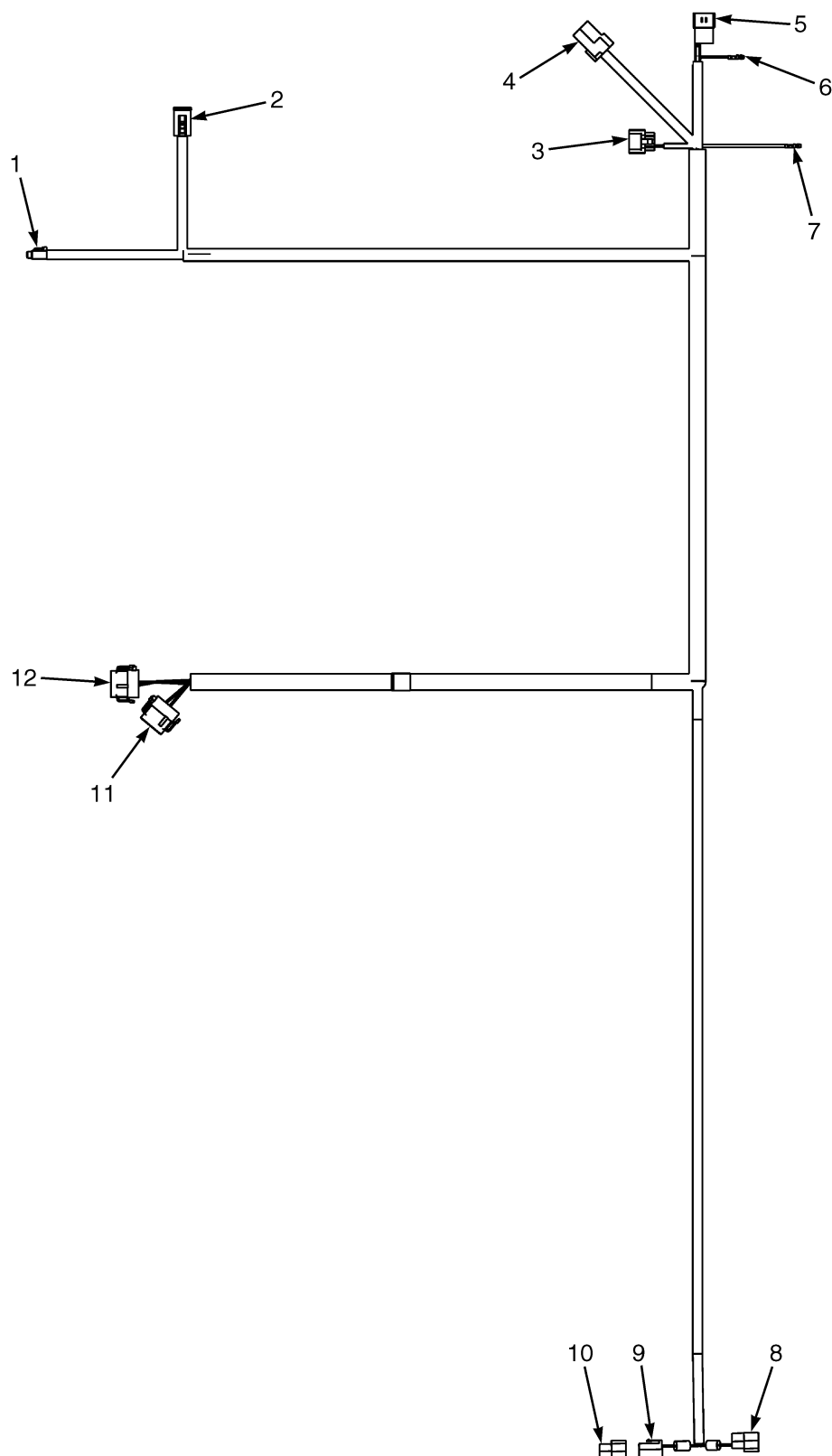
FRAME – YANMAR DIESEL W/MLM

ITEM	PART NO.	DESCRIPTION	QTY
24	1550626	E-Ring	1
24	1520864	Boot	1
25		Connector Assembly (CPS312 Opt Flasher)	1
25	2100204	Receptacle (Mini Relay)	1
26		Connector Assembly (CPS20 Fuse Block)	1
26	1521185	Connector	1
26	1521188	Lock	1
26	4045422	Cover	1
26	4045423	Bracket	1
27		Connector Assembly (T257 PDM+)	1
27	148800	Terminal (Battery)	1
28		Connector Assembly (CRS221 Glow Plug Fuse 60 Amp)	1
28	4159458	Fuse Holder (Maxi Fuse Kit 80 Amp)	1
28	1454829	Fuse (60 Amp)	1
29		Connector Assembly (CPS111 Diagnostic)	1
29	1566116	Connector (DT PLU 3-Socket, With Flange)	1
29	1532664	Connector (Secondary Lock)	1
29	1566117	Dust Cap (For Diagnostic Cable)	1
30		Connector Assembly (CPS13 PDM)	1
30	1521183	Connector	1
30	1521188	Lock	1
31		Connector Assembly (CPS14 PDM)	1
31	1521184	Connector	1
31	1521188	Lock	1
32		Connector Assembly (CPS16 PDM)	1
32	1521186	Connector	1
32	1521188	Lock	1
33		Connector Assembly (CPS15 PDM)	1
33	1521185	Connector	1
33	1521188	Lock	1
34		Connector Assembly (CPS207 Fuel Shut-off Solenoid)	1
34	1351070	Connector Body	1
35		Connector Assembly (CPS310 Control Module)	1
35	1502625	Connector (DT PLU 8-Socket)	1
35	1502626	Connector (Secondary Lock)	1
35	1484377	Plug	1
35	1330438	Terminal (Socket)	1
35	1597773	Terminal	1
36		Connector Assembly (CRP310 End Cap)	1
36	1623050	Housing	1
36	1330418	Connector (DT REC 8-Pin)	1
36	1531312	Terminal	1
36	1484377	Plug	1
37		Connector Assembly (CRP75 Seat Belt Switch Harness)	1
37	1493465	Connector (2 Pin)	1
37	1330414	Connector (Secondary Lock)	1
37	1531312	Terminal	1
38		Connector Assembly (CPS75 End Cap)	1
38	1490242	Connector (2 Way)	1
38	1490243	Connector (Secondary Lock)	1

WIRE HARNESS
FRAME – YANMAR DIESEL W/MLM

ITEM	PART NO.	DESCRIPTION	QTY
39		Connector Assembly (CPS90 Mini-Lever Module)	1
39	1541991	Connector (DTM PLU 8-Socket)	1
39	1541992	Connector (Secondary Lock)	1
39	1463139	Terminal	1
39	1463141	Terminal (Socket)	1
39	1484377	Plug	1
40		Connector Assembly (CRP90 End Cap)	1
40	1541988	Connector (8 Pin)	1
40	1484377	Plug	1

WIRE HARNESS (FIGURE 5-31) TELEMETRY FM1A AND FM1B



BP082477

**WIRE HARNESS
TELEMETRY FM1A AND FM1B**

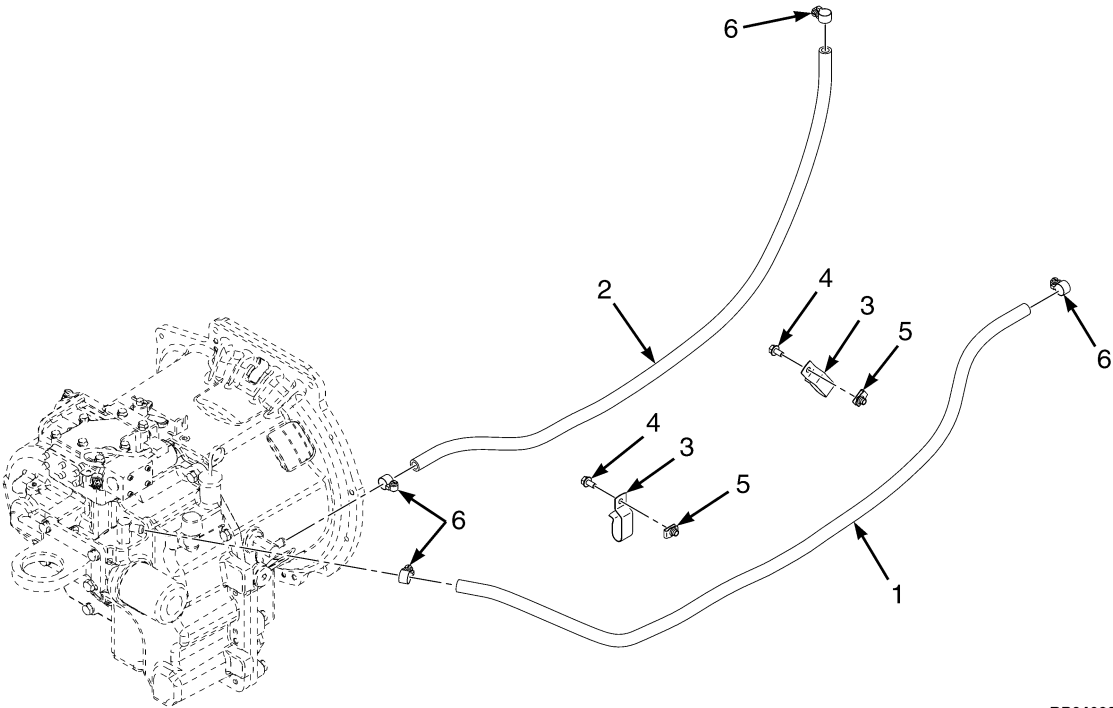
ITEM	PART NO.	DESCRIPTION	QTY
	4653293	Wire Harness (Telemetry FM1A and FM1B) (XIC)	1
1		Connector Assembly (CPS418 Buzzer)	..
1	1330421	Connector (4 Soc)	1
1	1489657	Connector (Secondary Lock)	1
1	1463139	Terminal	2
2		Connector Assembly (CPS419 Accessory)	..
2	1330421	Connector (4 Soc)	1
2	1489657	Connector (Secondary Lock)	1
2	1330438	Terminal (Socket)	4
3		Connector Assembly (CRP409 To Cowl Harness)	..
3	4612835	Connector	1
3	2314770	Connector Lock	1
3	4612827	Terminal	2
3	2314741	Terminal	1
3	2061333	Wire Seal	3
4		Connector Assembly (CRS441 Telemetry Relay)	..
5		Connector Assembly (CPS408 To Frame Harness)	..
5	2050634	Connector	1
5	2050635	Connector Lock	1
5	2061328	Terminal	2
5	2314740	Terminal	1
5	2061333	Wire Seal	3
6		Connector Assembly (T416 To Cowl Harness (Telemetry))	..
6	1324308	Terminal	1
6	1324307	Sleeve	1
7		Connector Assembly (T413 To Cowl Harness (Opt Terminal))	..
7	1324308	Terminal	1
7	1324307	Sleeve	1
8		Connector Assembly (CRP407 To Frame Harness)	..
8	1308260	Connector Body	1
8	4649061	Terminal	3
9		Connector Assembly (CPS406 Remote Key Switch)	..
9	1308259	Connector Body	1
9	4649062	Terminal	2
10		Connector Assembly (CRP406-1 Jumper)	..
10	1308260	Connector Body	1
10	4649061	Terminal	2
11		Connector Assembly (CPS401 FM1A)	..
11	1525567	Connector (DTM PLU 12-Socket)	1
11	1529046	Connector (Secondary Lock)	1
11	1463141	Terminal (Socket)	4
11	1484377	Plug	6
11	1463139	Terminal	2
12		Connector Assembly (CPS417 FM1B)	..
12	1525568	Connector (STM PLU 12-Socket)	1
12	1529046	Connector (Secondary Lock)	1
12	1463141	Terminal (Socket)	2
12	1484377	Plug	5
12	1463139	Terminal	5

[illegible]

SECTION 6
TRANSMISSION

DESCRIPTION	PAGE
COUNTER/REVERSE CLUTCH	6-8
INCHING VALVE AND ATTACHING PART	6-12
INCHING VALVE ASSEMBLY	6-14
INPUT/FORWARD CLUTCH	6-6
TORQUE CONVERTER HOUSING AND ATTACHING PARTS	6-10
TRANSMISSION COOLING	6-2
TRANSMISSION HOUSING AND ASSEMBLY	6-4

TRANSMISSION COOLING (FIGURE 6-1)



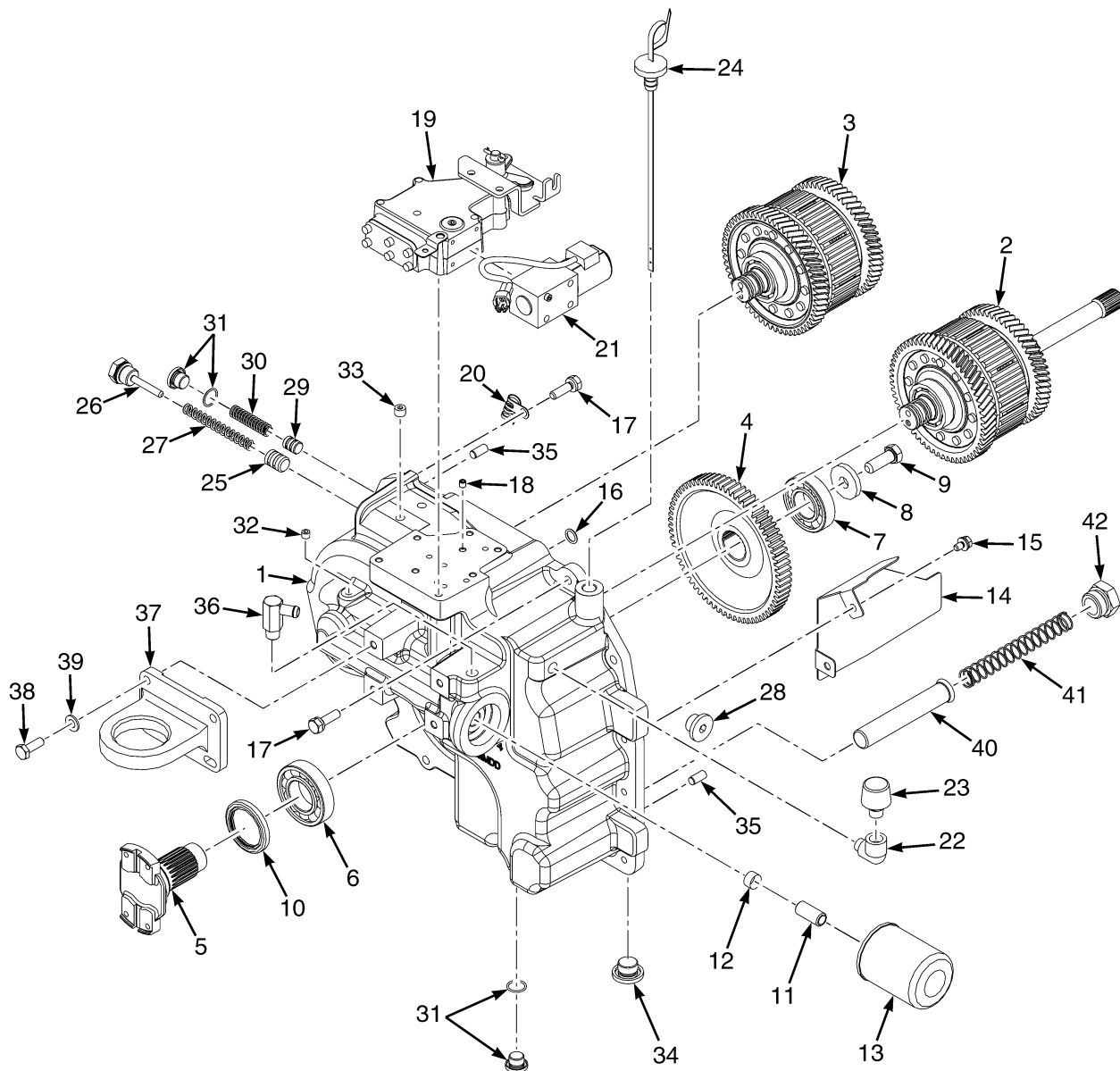
BP240290

ITEM	PART NO.	DESCRIPTION	QTY
1	4640850	Hose (Lower Radiator)	1
2	4640851	Hose (Higher Radiator)	1
3	1544157	Clip	2
4	4109993		
	1527879	Capscrew	2
5	1480237	Nut , Foldover	2
6	166857	Clamp	4

NOTES

[illegible]

TRANSMISSION HOUSING AND ASSEMBLY (FIGURE 6-2)

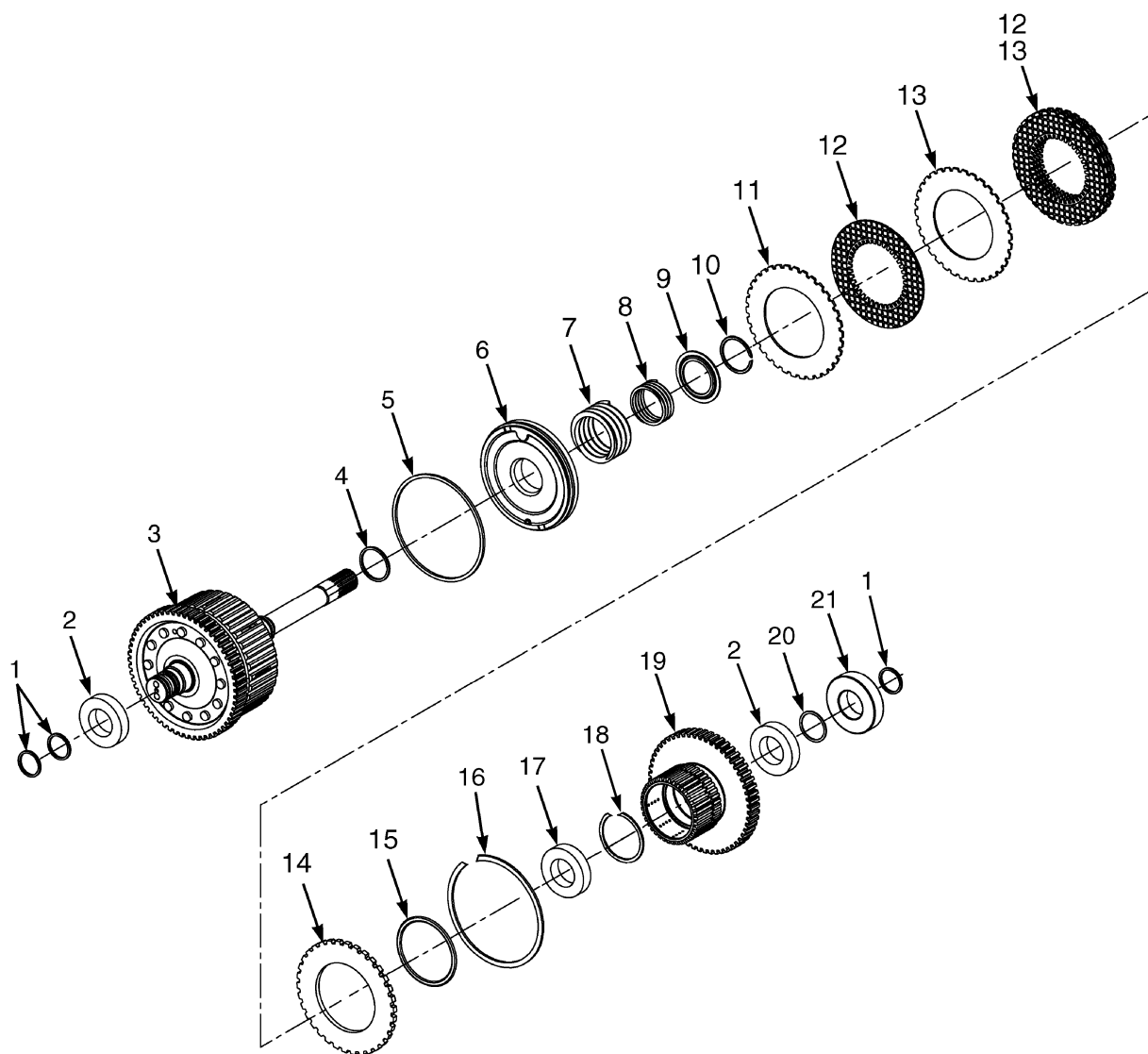


BP240296

TRANSMISSION HOUSING AND ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4118449	Transmission Assy	1
1	4118451	Case	1
1	4170684	Case	1
2	4640435	Clutch Pack (Forward) (☞ Figure 6-3).....	1
3	4640436	Clutch Pack (Reverse) (☞ Figure 6-4).....	1
4	4136760	Gear	1
5	4136635	Shaft	1
6	43208	Ball Bearing	1
7	43207	Ball Bearing	1
8	2079433	Washer	1
9	293665	Capscrew	1
10	2080616	Oil Seal	1
11	2029610	Fitting	1
12	15032	Nut	1
13	4623975	Filter	1
14	2105105	Baffle	1
15	2079554	Capscrew	2
16	104681	O-Ring	1
17	2079541	Capscrew	6
18	2043276	Choke	1
19	4606741	Inching Valve (☞ Figure 6-6).....	1
20	2022013	Clamp	1
21	2104666	Solenoid	1
22	2060858	Elbow	1
23	2021389	Breather	1
24	2105226	Gauge	1
25	2043274	Piston	1
26	4151120	Plug	1
27	1367415	Spring	1
28	2023976	Plug	2
29	1367416	Piston	1
30	1367417	Spring	1
31	2029432	Plug	2
32	2021917	Plug	2
33	2045300	Plug	4
34	2105107	Plug	1
35	302385	Dowel	2
36	2023719	Elbow	1
37	2105228	Bracket	1
38	136985	Capscrew	4
39	296420	Washer	4
40	334450	Screen	1
41	334452	Spring	1
42	14604	Plug	1

INPUT/FORWARD CLUTCH (FIGURE 6-3)

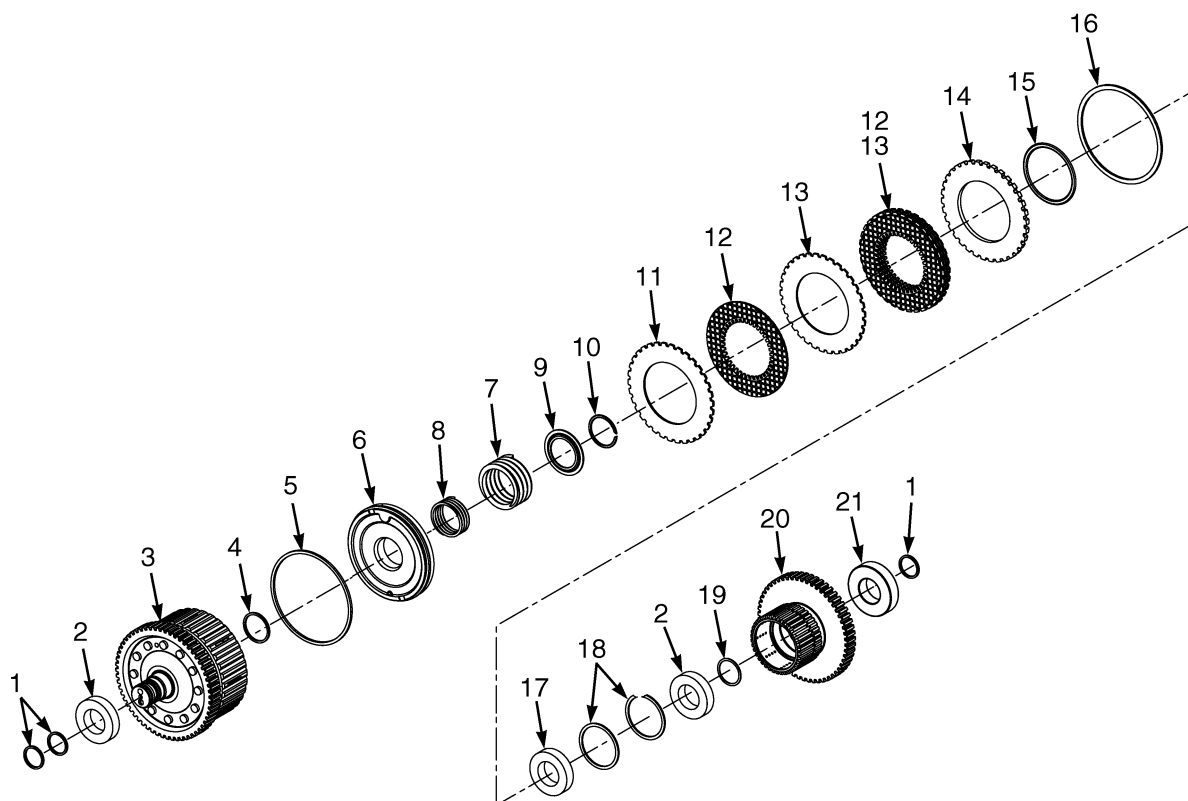


BP240240

INPUT/FORWARD CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
	4640435	Clutch Pack (Input/Forward)	1
1		Ring Seal	3
2	1581116		
	4025477	Ball Bearing	2
3		Shaft Assembly	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 Plates	5
13		Separator Plates	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	4648969	Clutch Gear	1
20	1537459	Snap Ring	1
21	43207	Ball Bearing	1
	2085127	Kit-Repair	1
	2085125	Kit-Drive Plate Torque Conv (Includes Items 11-14)	1
	2085126	Kit-Seal (Includes Items 1, 4-5, 15)	1

COUNTER/REVERSE CLUTCH (FIGURE 6-4)

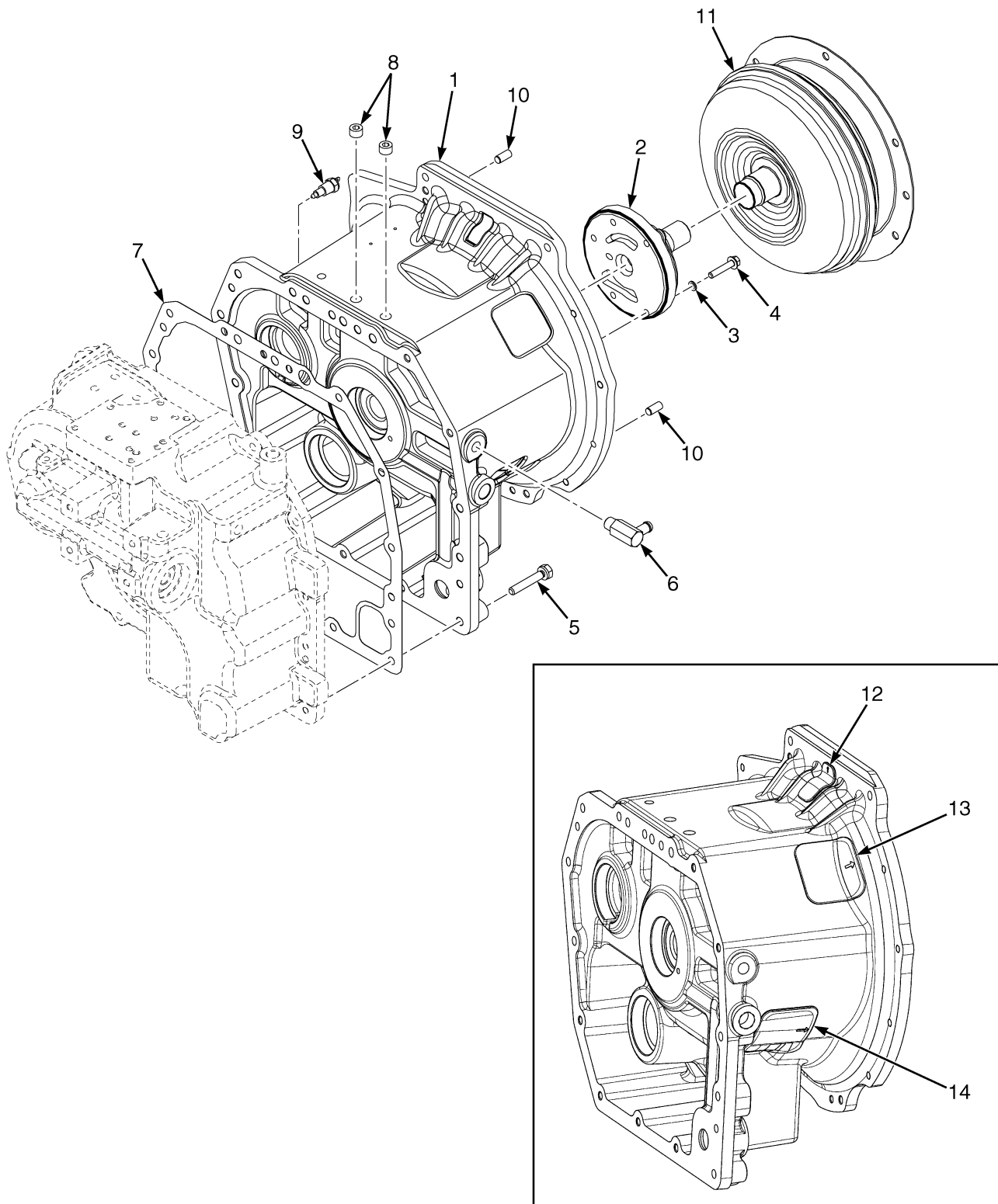


BP240099

COUNTER/REVERSE CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
	4640436	Clutch Pack (Counter/Reverse)	1
1		Seal	2
2	1581116		
	4025477	Ball Bearing	2
3		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	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	1
19	1537459	Snap Ring	1
20	4648969	Clutch Gear	1
21	43207	Ball Bearing	1
	1543102	Kit-Clutch Pack Plates (Includes Items 11-13)	1
	1595425	Kit-Clutch Pack Seals (Includes Items 1, 4-5, 15)	1

TORQUE CONVERTER HOUSING AND ATTACHING PARTS (FIGURE 6-5)

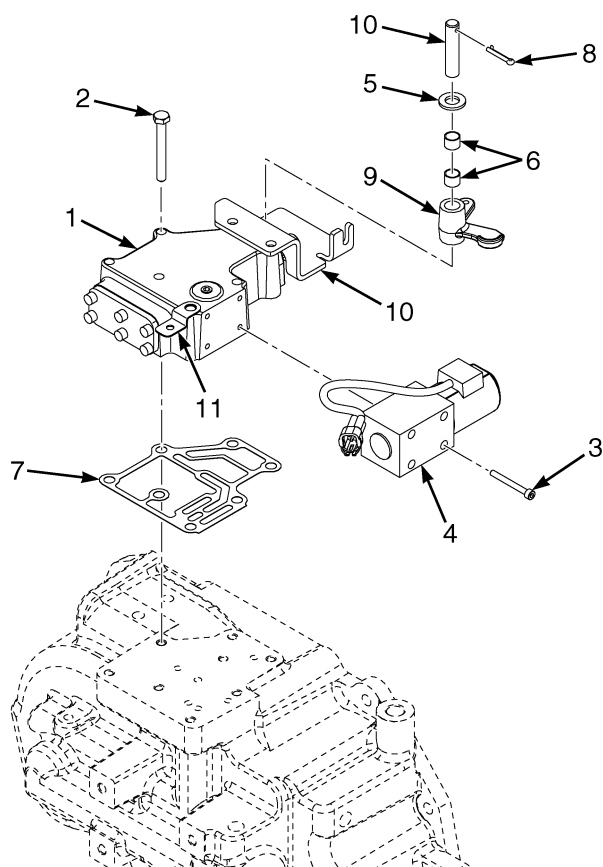


BP240298

TORQUE CONVERTER HOUSING AND ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
	4118449	Transmission Assy	1
1	4152580	Housing (Torque Converter)	1
1	4170685	Housing (Torque Converter)	1
2	2080612	Gear Pump	1
2	296462	Screw	1
2	2023995	Oil Seal (Torque Converter)	1
2	2043438	O-Ring	1
3	2105054	Packing	5
4	2105104	Bolt	5
5	2105103	Bolt	9
6	2023719	Elbow	1
7	2105106	Gasket	1
8	2021915	Plug	2
8	4170690	Plug	1
9	2021388	Switch	1
10	302385	Dowel	2
11	2081279	Torque Converter (BI-Fuel, LPG)	1
11	2081280	Torque Converter (DSL-Yanmar 3.3L)	1
11	2028867	Plate	1
11	293626	Capscrew	6
11	388049		
	292682	Lockwasher	6
12	4650886	Plug (Top)	1
13	4650885	Plug (Side)	1
14	4650884	Plug (Bottom)	1

INCHING VALVE AND ATTACHING PART (FIGURE 6-6)



BP240295

ITEM	PART NO.	DESCRIPTION	QTY
1	4606741	Inching Valve (☞ Figure 6-7).....	1
2	293622	Capscrew	7
3	2021328	Capscrew	4
4	2104666	Solenoid	1
5	320161	Washer	1
6	2021326	Bushing	1
7	2045647	Gasket	1
7	4166725	Gasket	1
8	2022553	Cotter Pin	1
9	4613249	Bellcrank	1
10	4158591	Bracket , Bellcrank Weldment	1
10		Shaft	1
11	2081274	Bracket (Harness Clamp)	1
	a 296418	Washer	8

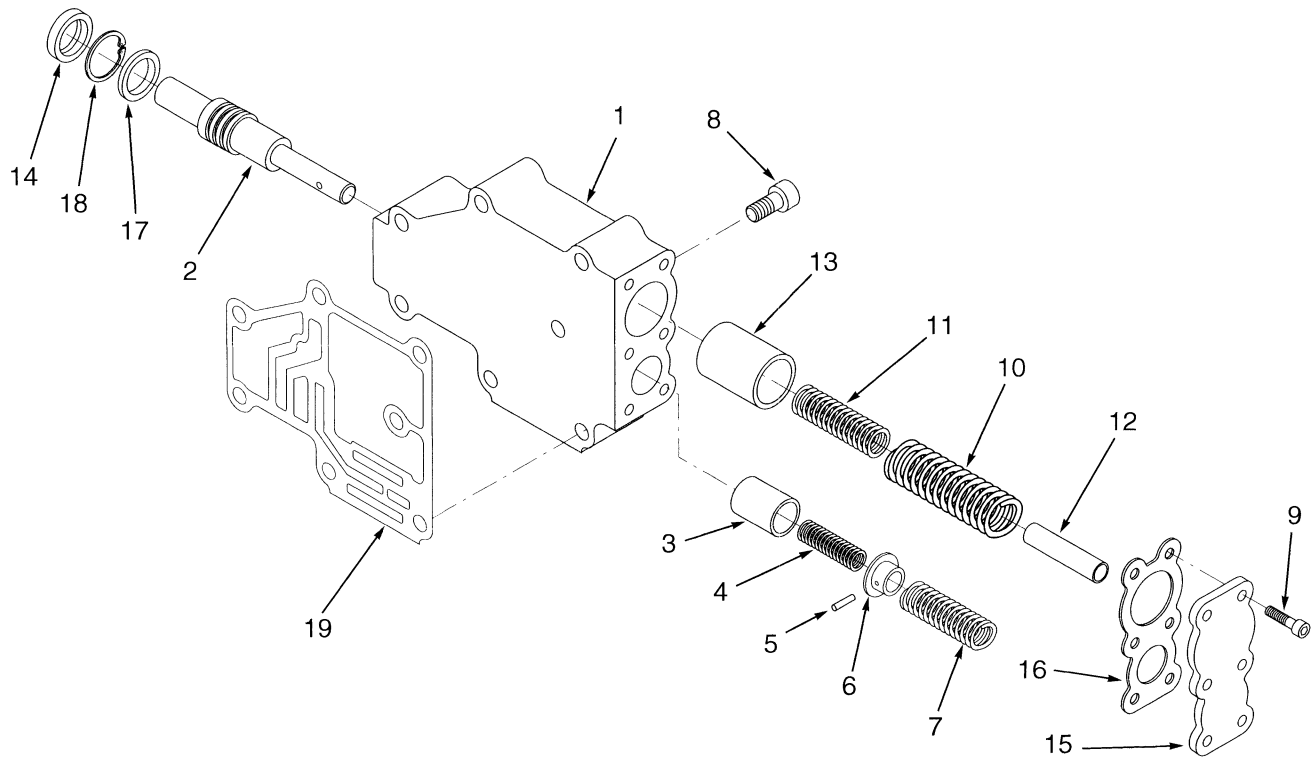
FOOTNOTES:

a Not Illustrated

NOTES

[illegible]

INCHING VALVE ASSEMBLY (FIGURE 6-7)



HP240328

INCHING VALVE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4606741	Inching Valve	1
1		Valve Body	1
2	2023997	Inching Spool	1
3	2045648	Piston	1
4		Pressure Spring	1
5	1367402	Pin	1
6	1367403	Stop	1
7		Pressure Spring	1
8	2021917	Plug (Oil Pressure Check Port)	1
9	2029338	Bolt	6
10		Pressure Spring	1
11		Pressure Spring	1
12	2029351	Stop	1
13	1367412	Piston	1
14		Oil Seal	1
15	2029350	Cover	1
16		Gasket	1
17	2029351	Stop	1
18	2029261	Retaining Ring	1
19	2045647	Gasket	1
19	4166725	Gasket	1
	2045649	Kit-Transmission Control Valve (Includes Items 14, 16)	1
	4606739	Kit-Spring For Inching (Includes Items 4, 7)	1
	4606740	Kit-Spring For Acc. (Includes Items 10-12)	1

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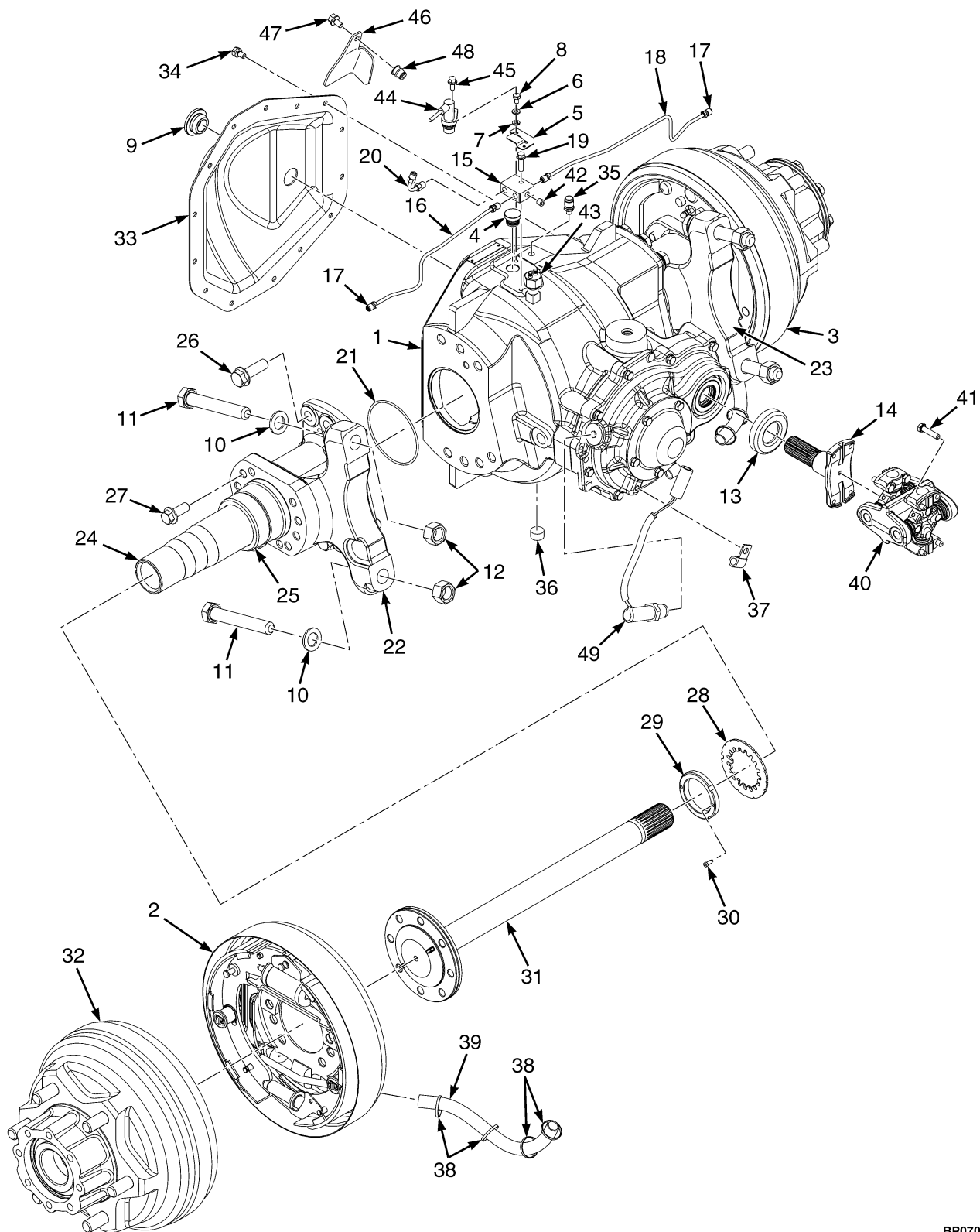
7

DRIVE AXLE

**SECTION 7
DRIVE AXLE**

DESCRIPTION	PAGE
DRIVE AXLE AND ATTACHING PARTS	7-2
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DRIVE TIRES AND WHEELS	
PNEUMATIC	7-13
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PNEUMATIC 28 X 9-15 - OPTIONAL	7-9
RADIAL TIRE	7-16
RADIAL TIRE - DUAL WHEEL	7-18
SOLID TIRE	7-10
SOLID TIRE - DUAL WHEEL	7-12

DRIVE AXLE AND ATTACHING PARTS (FIGURE 7-1)



BP070206

DRIVE AXLE AND ATTACHING PARTS**KEY:****A: H40XT, H50XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4653670	Drive Axle Assembly,	1	..
	4653671	Drive Axle Assembly	..	1
1	4162972	Drive Axle Center Section (☞Figure 7-2).....	1	1
2	4154242	Brake Assy , LH (☞Figure 9-1).....	1	..
2	2097069	Brake Assy , LH (☞Figure 9-1).....	..	1
3	4154243	Brake Assy , RH (☞Figure 9-1).....	1	..
3	2097070	Brake Assy , RH (☞Figure 9-1).....	..	1
4	4626501	Plug	1	1
5	4638929	Plate	1	1
6	4093489			
	320156	Washer	1	1
7	292680	Washer	1	1
8	302256	Capscrew	1	1
9	1516075	Plug , Oil Level	1	1
10	296430	Washer	4	4
11	293717	Capscrew	4	4
12	292659	Nut	4	4
13	4000205	Dust Cover	1	1
14	1517673	Shaft	1	1
15	2021470	Valve , 4-Way Block	1	1
16	4649005	Tube Assy , Left	1	1
17	1327241	Nut	4	4
18	4649006	Tube Assy , Right	1	1
19	1527878	Capscrew	1	1
20	2029523	Tube Assembly	1	1
21	2027828	O-Ring	2	2
22	2081469	Hanger Assembly (LH)	1	1
22	2082856	Hanger , LH	1	1
23	2081468	Hanger Assembly (RH)	1	1
23	2082857	Hanger , RH	1	1
24	1532338	Spindle , Drive Axle	2	2
25	1502422	Spacer	2	2
26	2079522	Bolt	14	14
27	2027633	Capscrew	16	16
28	2080650	Washer	2	2
29	2080648	Nut	2	2
30	2081841	Setscrew	2	2
31	2029499	Drive Shaft Axle	2	2
32	2082641	Hub (L and R Drive Axle) (☞Figure 7-2).....	2	2
33	4622226	Cover	1	1
34	2079533	Capscrew , M8x1.25x16	15	15
35	2021510	Breather , Air	1	1
36	2023421	Plug	1	1
37	124297	Clamp	2	2
38	2021652	Strap Clamp	8	8
39	2061325	Tube Assy , Vinyl	2	2

DRIVE AXLE AND ATTACHING PARTS

KEY:

A: H40XT, H50XT

B: H60XT

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
40	1547757	Drive Shaft	1	1
40	1566461	Coupling	1	1
40	1566462	Universal Joint	2	2
41	293616	Capscrew	8	8
42	b 15483	Fitting	1	1
42	a 16151	Fitting	1	1
43	a 387867	Pressure Switch	1	1
44	2080654	Sensor , Speed (Yanmar)	1	1
45	1693371	Capscrew	1	1
46	4148884	Cover	1	1
47	1613324	Capscrew	1	1
48	1530243	Insert	1	1
49	2314892	Sensor , Speed (PSI)	1	1

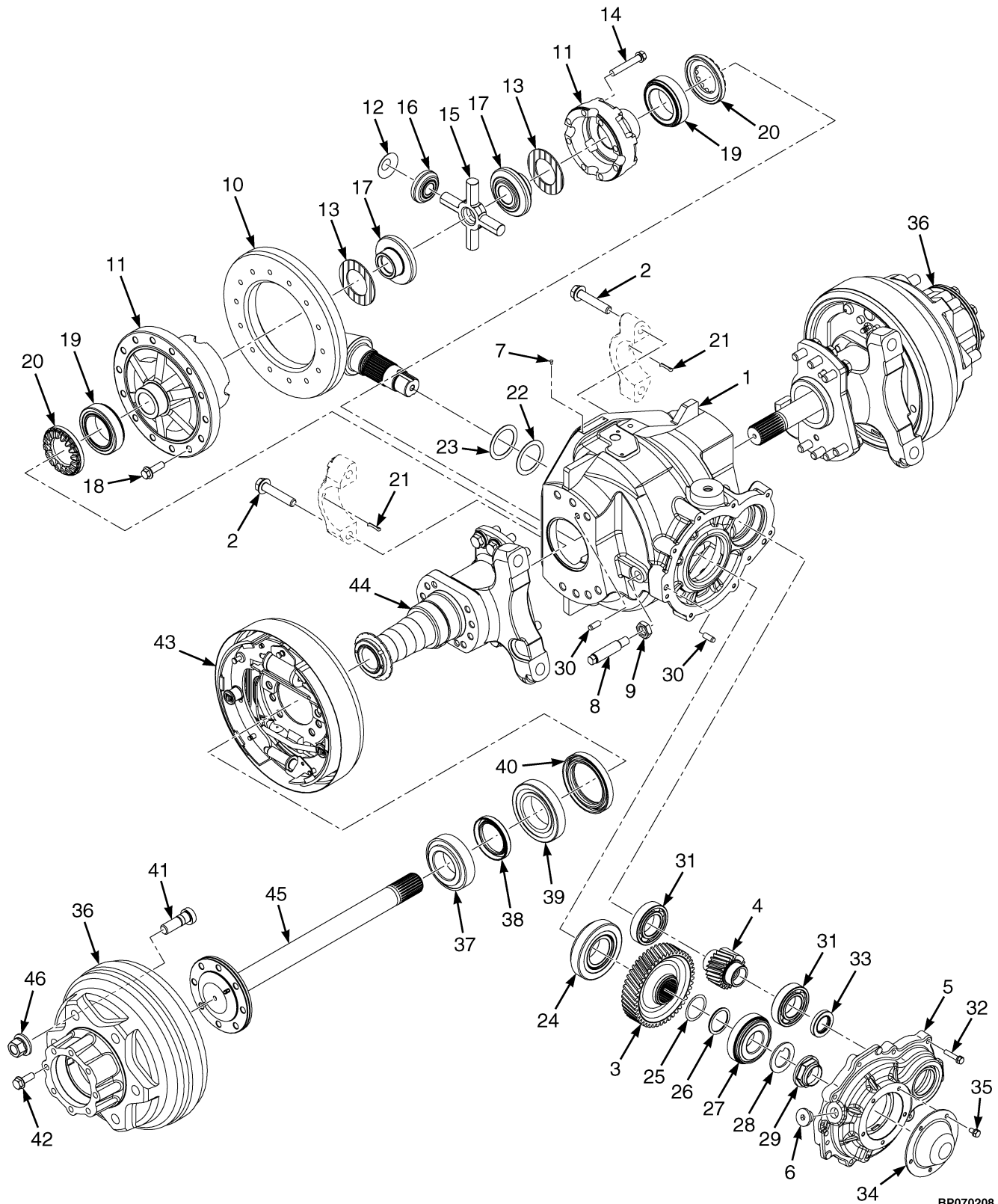
FOOTNOTES:

a With Monotrol**b** Without Monotrol

NOTES

[illegible]

DRIVE AXLE CENTER SECTION AND HUB ASSY (FIGURE 7-2)



BP070208

DRIVE AXLE CENTER SECTION AND HUB ASSY

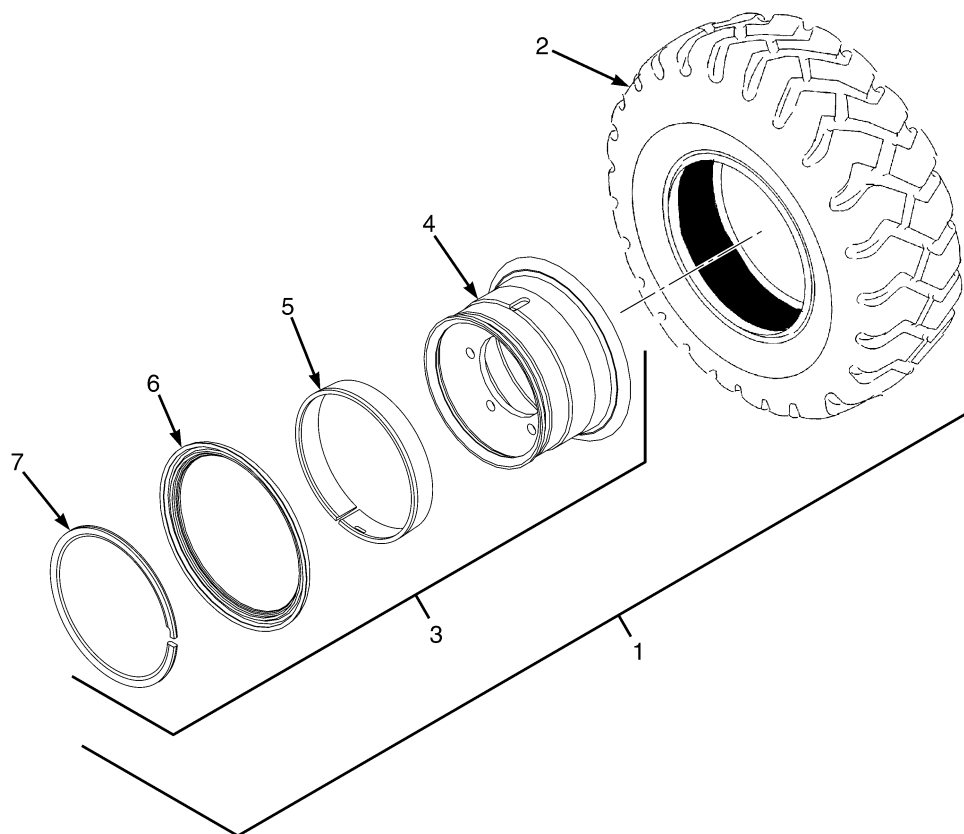
ITEM	PART NO.	DESCRIPTION	QTY
	4162972	Drive Axle Center Section	1
1	4162973	Housing , Drive Axle Center Section	1
2	2079523	Bolt	4
3	2079314	Gear	1
4	2079311	Drive Gear	1
5	2108220	Housing , Dropbox Housing	1
6	2023976	Plug	1
7	2023748	Rivet	2
8	2093753	Thrust Screw	1
9	296137	Nut	1
10	2058929	Gear And Pinion	1
11	2081224	Differential	1
	1565324	Kit-Washer	1
12		Washer, Pinion	4
13		Washer, Side Gear	2
14	1565327	Bolt	8
15	2029383	Spider	1
	1606531	Kit-Gear	1
16		Gear, Pinion	4
17		Gear, Side Gear	2
18	2029436	Bolt	14
19	2027661	Roller Bearing	2
20	2021287	Bearing	2
21	2081542	Cotter Pin	2
22	1532715	Shim (0.040 in.)	1
23	4029943	Shim , T = 0.8	AR
23	4029944	Shim , T = 1.2	AR
23	4042928	Shim , T = 0.9	AR
23	4042929	Shim , T = 1.1	AR
24	2076153	Bearing Set	1
25	1516331	Shim (0.004 in.)	AR
25	1516332	Shim (0.005 in.)	AR
25	1516333	Shim (0.007 in.)	AR
25	1516334	Shim (0.009 in.)	AR
26	1516335	Shim (0.019 in.)	2
27	2022352	Tapered Roller Bearing	1
28	1530588	Washer	1
29	2026861	Nut	1
30	2099571	Metric Pin , 10x25 (Dowel)	4
30	a 302385	Dowel (Optional)	4
31	1523479	Ball Bearing	2
32	2079537	Capscrew , M8x1.25x40	9
33	1522377	Oil Seal	1
34	1516536	Cover (Pinion)	1
35	2079533	Capscrew , M8x1.25x16	5
36	2082641	Hub (Applies to L or R side)	1
37	2027663	Bearing Set (Tapered)	1
38	4615139	Oil Seal	1
39	1375492		
	2027662	Bearing Set (Tapered)	1
40	2027817	Oil Seal	1

DRIVE AXLE CENTER SECTION AND HUB ASSY

ITEM	PART NO.	DESCRIPTION	QTY
41	1532337	Wheel Stud	6
42	2079518	Bolt	8
43		Brake Assembly (☞ Figure 7-1).....	1
44		Hanger Assembly (☞ Figure 7-1).....	1
45	2029499	Drive Shaft Axle	2
46	580063944	Wheel Nut	12

FOOTNOTES:

a Optional

DRIVE TIRES AND WHEELS (FIGURE 7-3)
PNEUMATIC 28 X 9-15 — OPTIONAL

BP070185

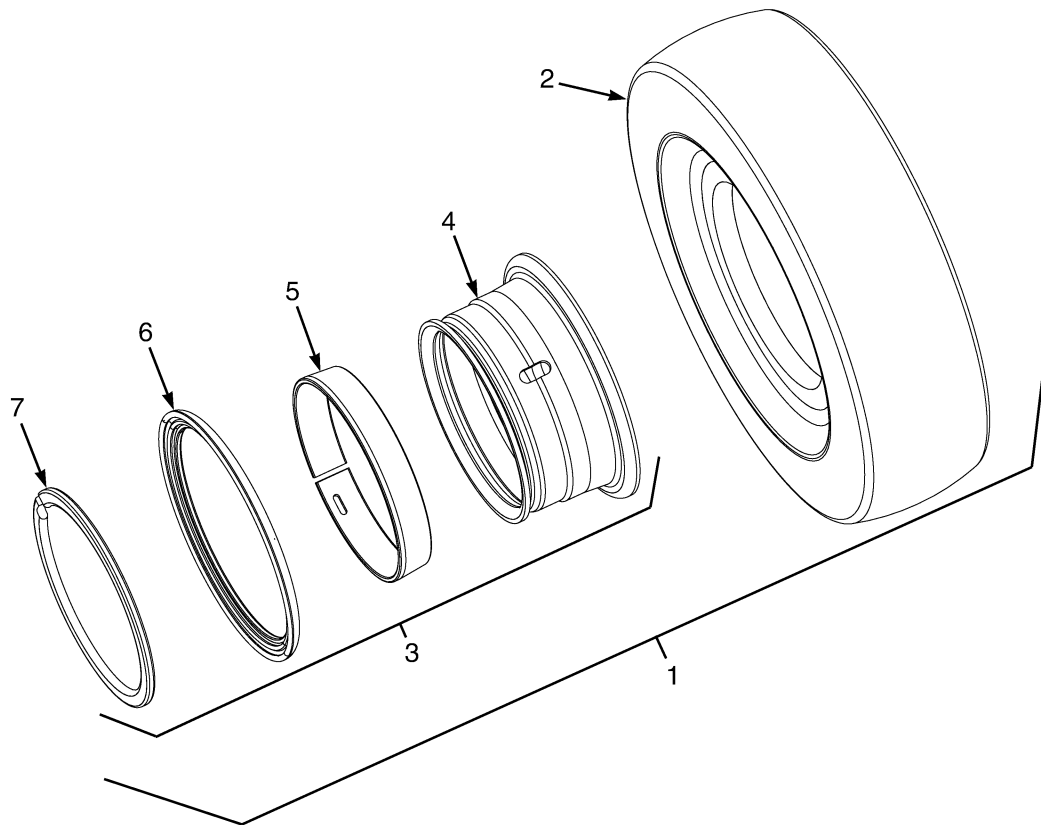
KEY:**A:** H40-60XT 28 x 9-15 Single**B:** H40-60XT 28 x 9-15 Wide

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1544982	Wheel And Tire , 28 x 9-15 Pneu	2	..
	a 1544988	Wheel And Tire , 28 x 9-15 Pneu	..	2
2	1543061	Tire	1	1
3	2070074	Wheel Assy (7.00 x 15)	1	..
3	a 2070076	Wheel Assy (7.00 x 15)	..	1
4	2070079	Rim	1	..
4	a 2070077	Rim	..	1
5	1584695	Wedge Band	1	1
6	160653	Wheel Side Ring	1	1
7	980542	Wheel Lock Ring	1	1

FOOTNOTES:**a** Wide Option

DRIVE TIRES AND WHEELS (FIGURE 7-4)

SOLID TIRE



BP220220

KEY:

A: 7.00 x 12 (H40-50XT)

B: 28 x 9-15 (H40-70XT)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4045805	Wheel And Tire (CB/WH) (Standard Compound)	2	..
1	4045808	Wheel And Tire (CB/WH) (Non-Marking Compound)	2	..
1	4045815	Wheel And Tire (CB/WH) (Standard Compound)	..	2
1	4045818	Wheel And Tire (CB/WH) (Non-Marking Compound)	..	2
1	a 4045824	Wheel And Tire (CB/WH) (Standard Compound)	2	..
1	a 4045827	Wheel And Tire (CB/WH) (Non-Marking Compound)	2	..
1	a 4045834	Wheel And Tire (CB/WH) (Standard Compound)	..	2
1	a 4045843	Wheel And Tire (CB/WH) (Non-Marking Compound)	..	2
2	4045806	Tire (Standard Compound)	1	..
2	4045809	Tire (Non-Marking Compound)	1	..
2	4045816	Tire (Standard Compound)	..	1
2	4045819	Tire (Non-Marking Compound)	..	1
3	2070073	Wheel Assy (5.00 x 12)	1	..
3	2070074	Wheel Assy (7.00 x 15)	..	1
3	a 2070075	Wheel Assy (5.00 x 12)	1	..
3	a 2070076	Wheel Assy (7.00 x 15)	..	1
4	2070080	Rim	1	..
4	2070079	Rim	..	1

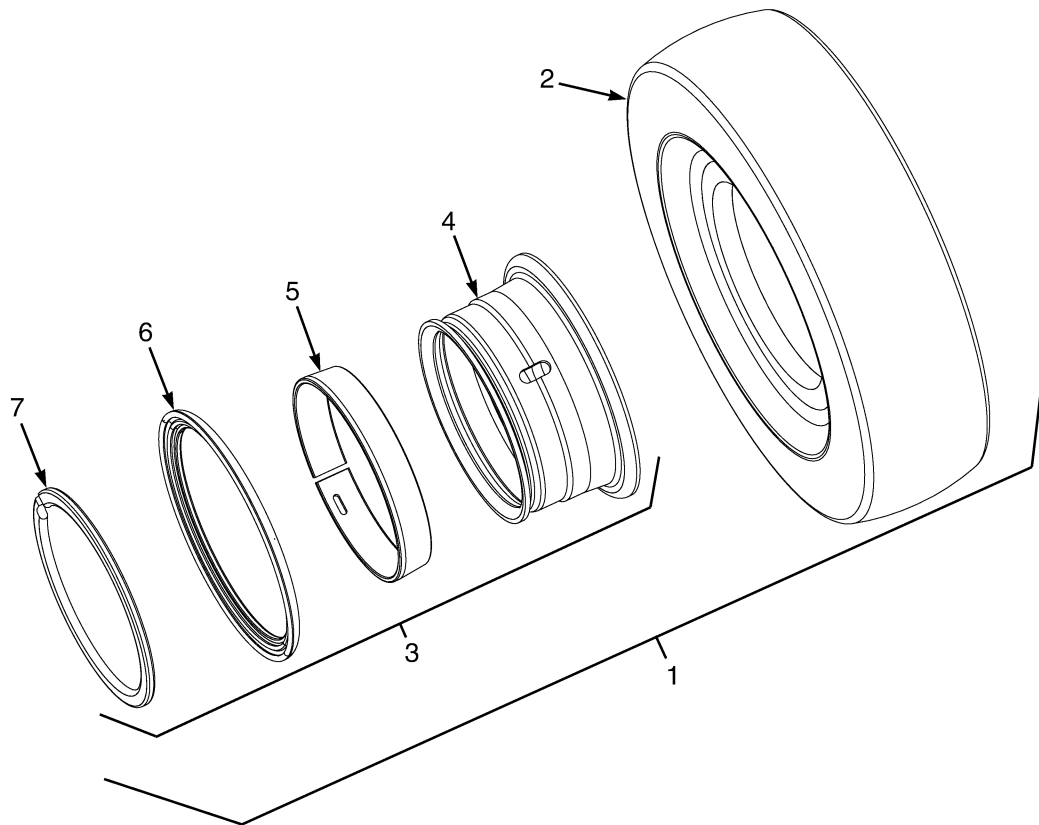
KEY:**A: 7.00 x 12 (H40-50XT)****B: 28 x 9-15 (H40-70XT)**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
4	a 2070078	Rim	1	..
4	a 2070077	Rim	..	1
5	1584694	Wedge Band	1	..
5	1584695	Wedge Band	..	1
6	161890	Wheel Side Ring	1	..
6	160653	Wheel Side Ring	..	1
7	161889	Wheel Lock Ring	1	..
7	980542	Wheel Lock Ring	..	1

FOOTNOTES:**a** Wide Option

DRIVE TIRES AND WHEELS (FIGURE 7-5)

SOLID TIRE — DUAL WHEEL



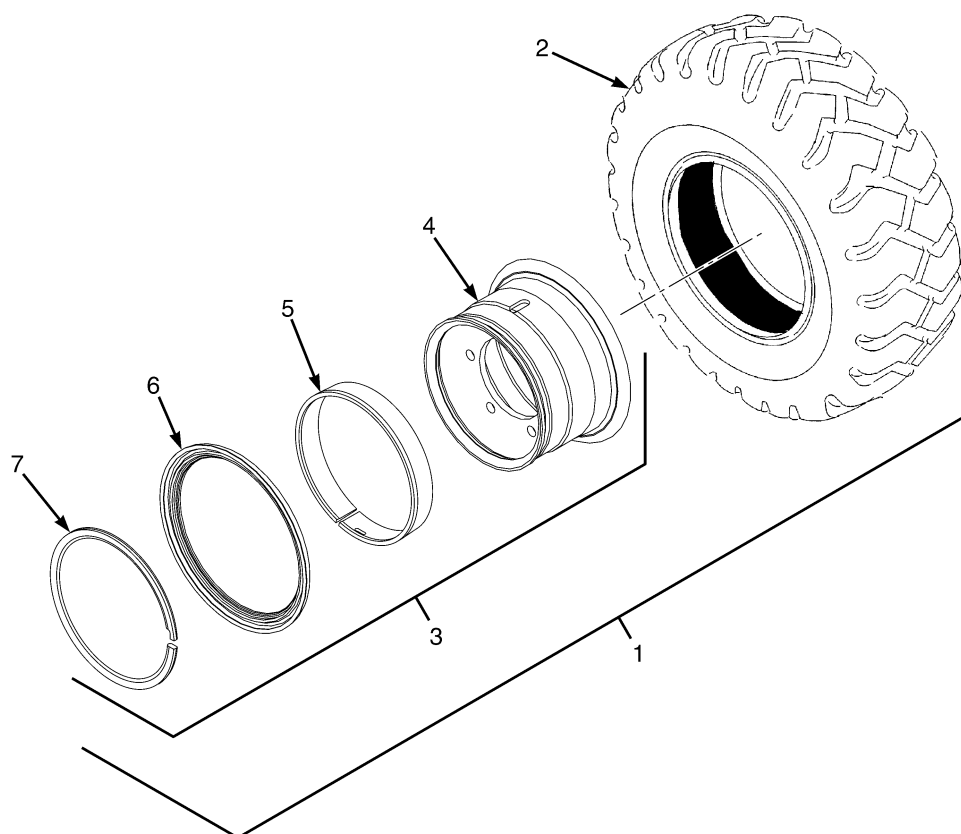
BP220220

KEY:

A: Standard Compound

B: Non-Marking Compound

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4045987	Wheel And Tire (CB/WH) (7.00 x 12)	4	..
1	4045990	Wheel And Tire (CB/WH) (7.00 x 12)	..	4
2	4045806	Tire	2	..
2	4045809	Tire	..	2
3	2070073	Wheel Assy (5.00 x 12)	2	2
4	2070080	Rim	1	1
5	1584694	Wedge Band	1	1
6	161890	Wheel Side Ring	1	1
7	161889	Wheel Lock Ring	1	1

DRIVE TIRES AND WHEELS (FIGURE 7-6)
PNEUMATIC

BP070185

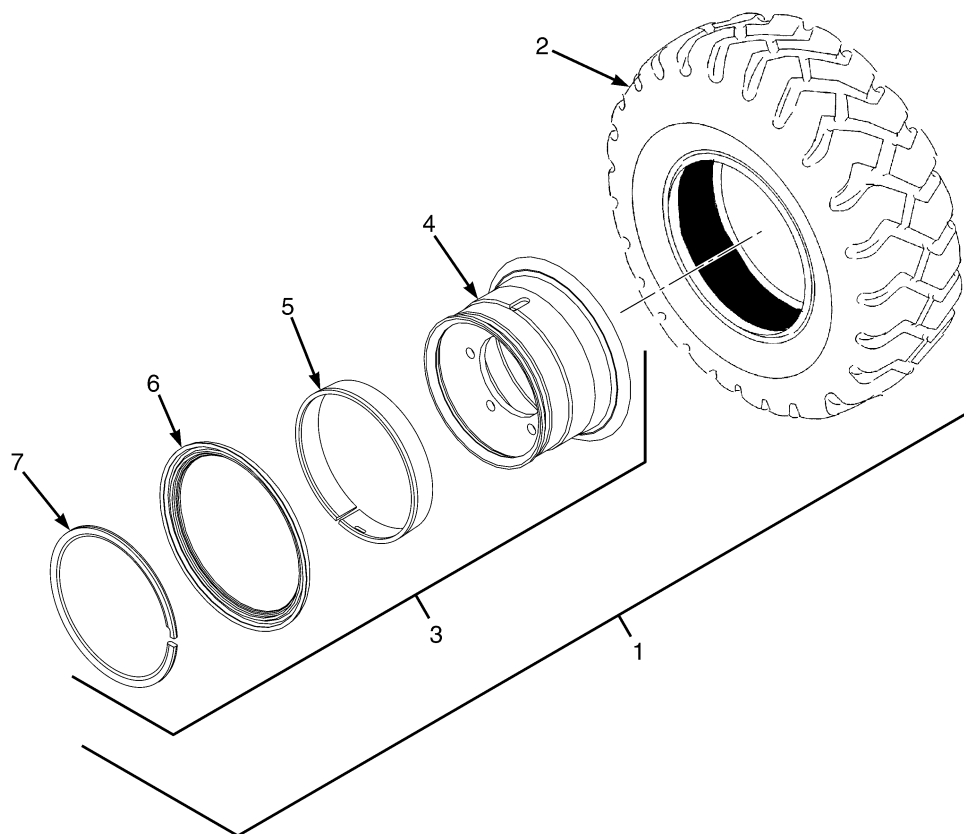
KEY:**A:** 7.00 X 12 - 14PR(H40-50XT)**B:** 28 X 9 15 - 14PR (H40-70XT)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4045802	Wheel And Tire (CB/WH)	2	..
1	4045812	Wheel And Tire (CB/WH)	..	2
1	a 4045821	Wheel And Tire (CB/WH)	2	..
1	a 4045830	Wheel And Tire (CB/WH)	..	2
2	4045803	Tire	1	..
2	4045813	Tire	..	1
3	2070073	Wheel Assy (5.00 x 12)	1	..
3	2070074	Wheel Assy (7.00 x 15)	..	1
3	a 2070075	Wheel Assy (5.00 x 12)	1	..
3	a 2070076	Wheel Assy (7.00 x 15)	..	1
4	2070080	Rim	1	..
4	2070079	Rim	..	1
4	a 2070078	Rim	1	..
4	a 2070077	Rim	..	1
5	1584694	Wedge Band	1	..
5	1584695	Wedge Band	..	1
6	161890	Wheel Side Ring	1	..
6	160653	Wheel Side Ring	..	1

KEY:**A:** 7.00 X 12 - 14PR(H40-50XT)**B:** 28 X 9 15 - 14PR (H40-70XT)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
7	161889	Wheel Lock Ring	1	..
7	980542	Wheel Lock Ring	..	1

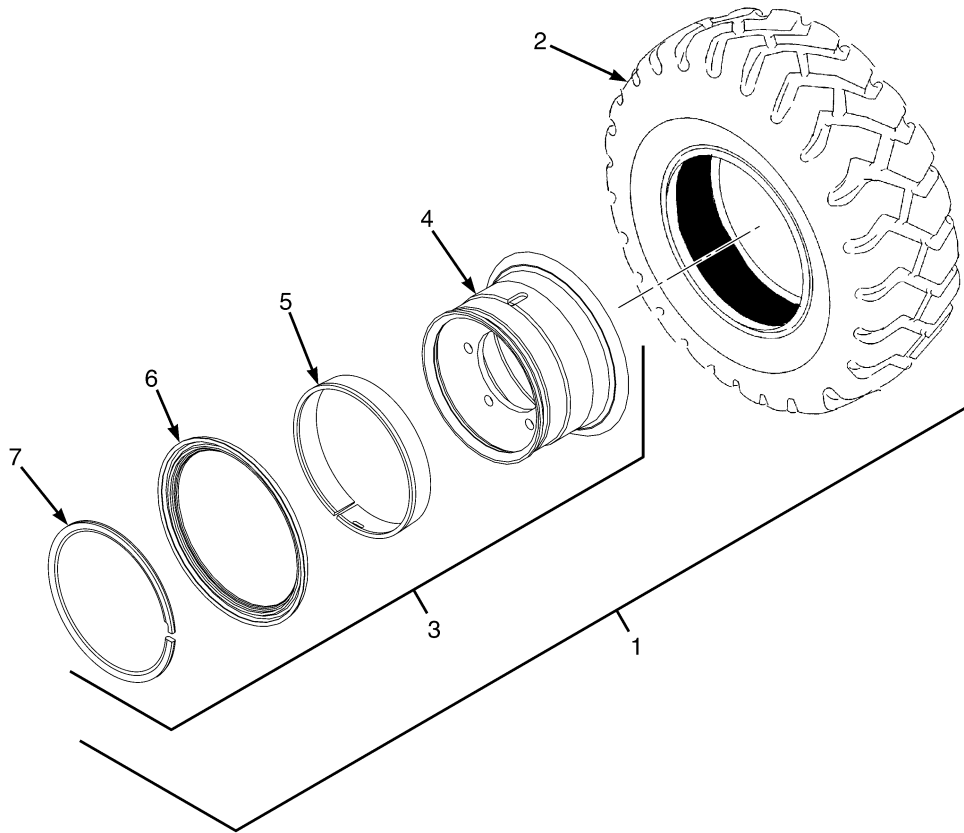
FOOTNOTES:**a** Wide Option

DRIVE TIRES AND WHEELS (FIGURE 7-7)
PNEUMATIC — DUAL WHEEL

BP070185

ITEM	PART NO.	DESCRIPTION	QTY
1	4045984	Wheel And Tire (CB/WH)	4
2	4045803	Tire	1
3	2075454	Rim Assembly (5.00 x 12)	1
4	2075455	Rim (Dual Wheel)	1
5	1584694	Wedge Band	1
6	161890	Wheel Side Ring	1
7	161889	Wheel Lock Ring	1

DRIVE TIRES AND WHEELS (FIGURE 7-8) RADIAL TIRE



BP070185

KEY:

A: 7.00 R12 (H40-50XT)

B: 225/75 R15 (H40-70XT)

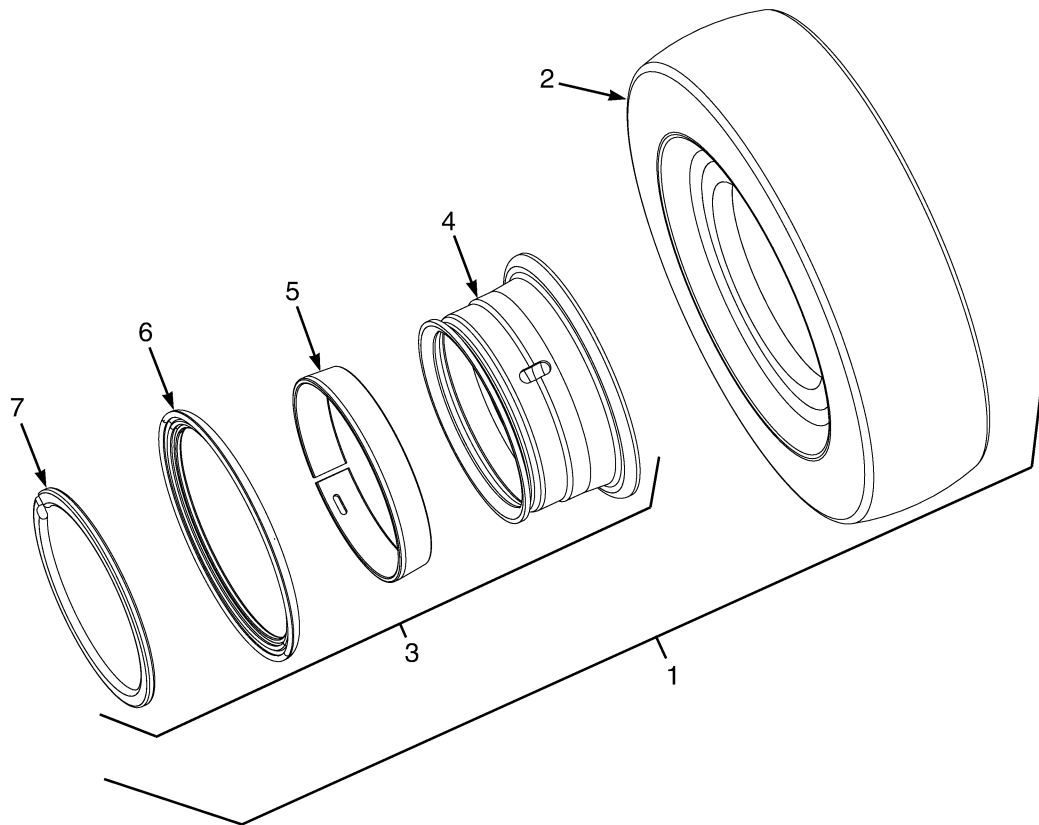
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1544981	Wheel And Tire 7.00R12 Pneu Radial	2	..
1	1544984	Wheel And Tire 225/75R15 Pneu Radial	..	2
1	a 1544987	Wheel And Tire 7.00R12 Pneu Radial	2	..
1	a 1544990	Wheel and Tire 225/75R15 Pneu Radial	..	2
2	1471829	Pneumatic Tire	1	..
2	1471591	Tubeless Bead Seal	1	..
2	1358179	Pneumatic Tire	1	..
2	1471922	Tubeless Bead Seal Valve	1	..
2	1471835	Pneumatic Tire	..	1
2	1462617	Tubeless Bead Seal	..	1
2	1358183	Pneumatic Tire (Michelin XZM)	..	1
2	1471922	Tubeless Bead Seal Valve	..	1
3	2070073	Wheel Assy (5.00 x 12)	1	..
3	2070074	Wheel Assy (7.00 x 15)	..	1
3	a 2070075	Wheel Assy (5.00 x 12)	1	..
3	a 2070076	Wheel Assy (7.00 x 15)	..	1
4	2070080	Rim	1	..
4	2070079	Rim	..	1

KEY:**A: 7.00 R12 (H40-50XT)****B: 225/75 R15 (H40-70XT)**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
4	a 2070078	Rim	1	..
4	a 2070077	Rim	..	1
5	1584694	Wedge Band	1	..
5	1584695	Wedge Band	..	1
6	161890	Wheel Side Ring	1	..
6	160653	Wheel Side Ring	..	1
7	161889	Wheel Lock Ring	1	..
7	980542	Wheel Lock Ring	..	1

FOOTNOTES:**a** Wide Option

DRIVE TIRES AND WHEELS (FIGURE 7-9) RADIAL TIRE — DUAL WHEEL



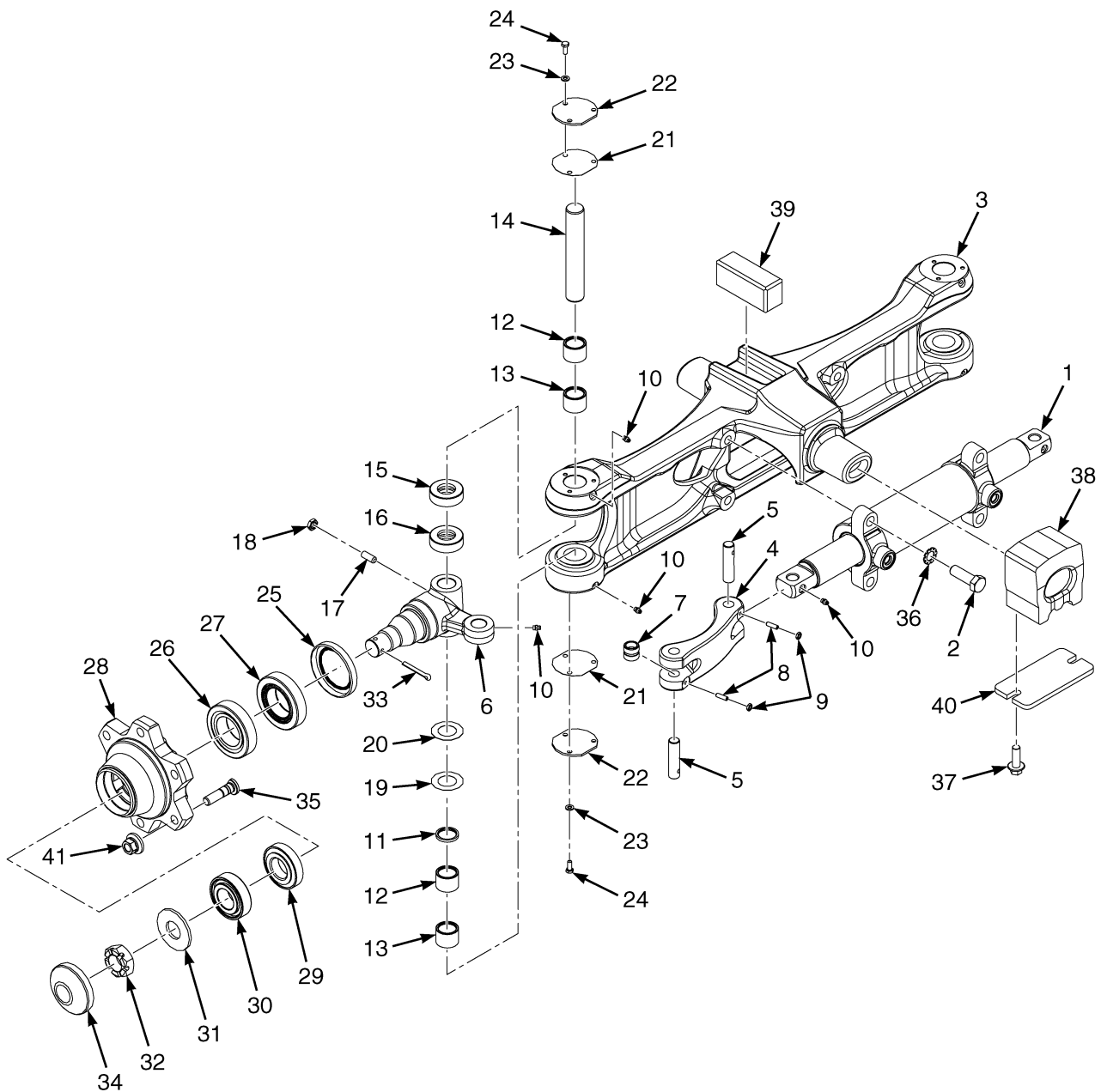
BP220220

ITEM	PART NO.	DESCRIPTION	QTY
1	1587440	Wheel And Tire (7.00 x 12)	4
2	1471829	Pneumatic Tire	1
2	1471591	Tubeless Bead Seal	1
2	1358179	Pneumatic Tire	1
2	1471922	Tubeless Bead Seal Valve	1
3	2075454	Rim Assembly (5.00 x 12)	2
4	2075455	Rim (Dual Wheel)	1
5	1584694	Wedge Band	1
6	161890	Wheel Side Ring	1
7	161889	Wheel Lock Ring	1

SECTION 8
STEERING SYSTEM

DESCRIPTION	PAGE
STEER AXLE	8-2
STEER CONTROL UNIT AND ATTACHING STEER HOSES	8-8
STEER CYLINDER	8-4
STEER TIRES AND WHEELS	8-10
STEERING COLUMN AND ATTACHING PARTS	8-6

STEER AXLE (FIGURE 8-1)

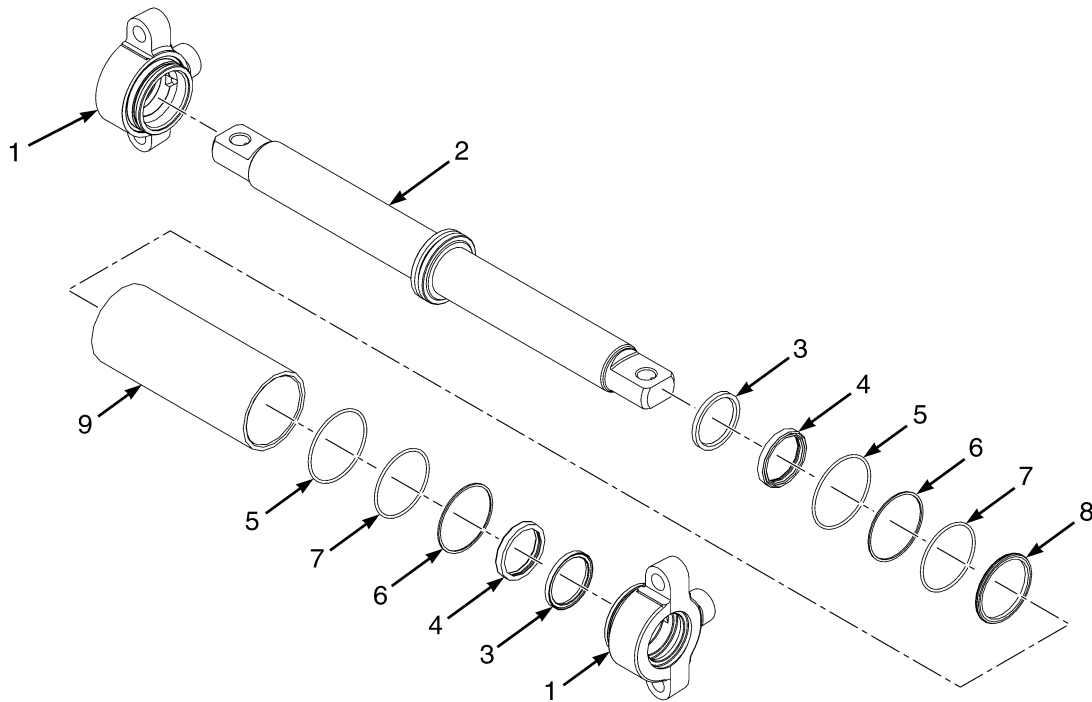


BP220410

STEER AXLE

ITEM	PART NO.	DESCRIPTION	QTY
	4141680	Steering Axle Assembly	1
1	4640746	Steering Cylinder (☞ Figure 8-2).....	1
2	293686	Capscrew	4
3	4141681	Steering Axle	1
4	4119892	Tie Rod	2
5	4119893	Pin	4
6	4119894	Spindle	2
7	4119895	Bushing	2
8	302146	Setscrew	4
9	1593334	Nut	4
10	13957	Grease Fitting	8
11	4119899	Oil Seal	2
12	2027664	Needle Bearing	4
13	4126732	Needle Bearing	4
14	4119901	King Pin	2
15	2027660	Thrust Bearing	2
16	4126734	Thrust Bearing	2
17	302158	Setscrew	2
18	1593336	Nut	2
19	4119905	Shim	2
20	4119906	Shim	2
21	4119907	Gasket	4
22	4119908	Plate	4
23	4093489		
	320156	Washer	12
24	292500	Capscrew	12
25	2305658	Oil Seal	2
26	2027665	Bearing	2
27	4132613	Bearing Set	2
28	4132993	Wheel Hub	2
29	4631148	Bearing	2
30	4132612	Bearing Set	2
31	4119914	Washer	2
32	4119915	Nut	2
33	15254	Cotter Pin	2
34	4119917	Cap	2
35	4132994	Bolt	12
36	296384	Washer	4
37	1527888	Capscrew	4
38	2060696	Rubber Mount	2
39	1388838	Rubber Mount	1
40	4119900	Plate	2
41	1517836	Wheel Nut	12

STEER CYLINDER (FIGURE 8-2)



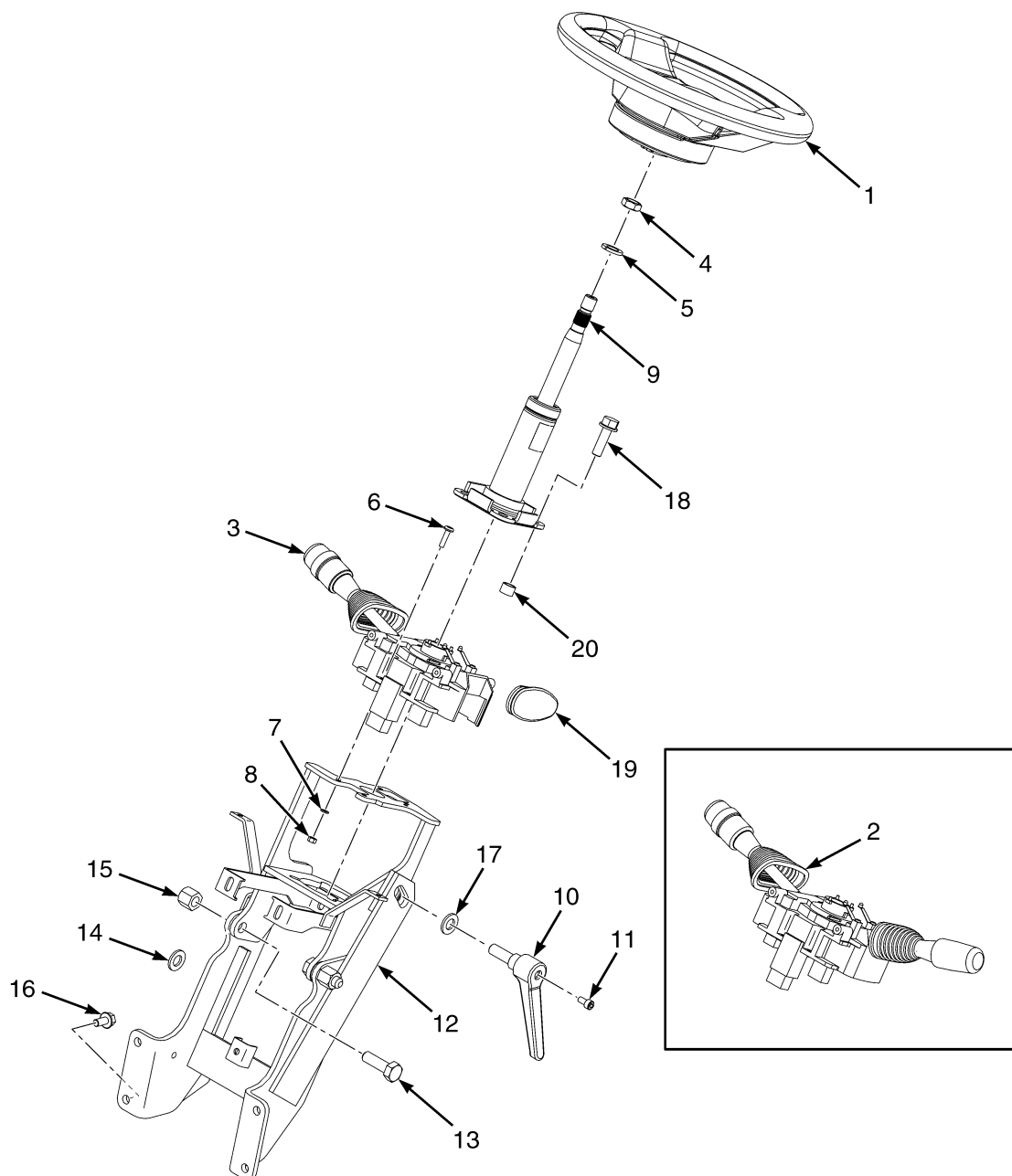
BP220419

ITEM	PART NO.	DESCRIPTION	QTY
	4640746	Steering Cylinder	1
1	4114429	End Cap	2
2	4114426	Piston Rod	1
3	1381115	Rod Wiper	2
4	1381114	Rod Seal	2
5	14191	O-Ring	2
6	1310391	Back-Up Ring	2
7	1310389	O-Ring	2
8	2044370	Piston Seal	1
9	4114425	Tube	1
	4119913	Kit-Seal (Includes Items 3-8)	1

NOTES

[illegible]

STEERING COLUMN AND ATTACHING PARTS (FIGURE 8-3)

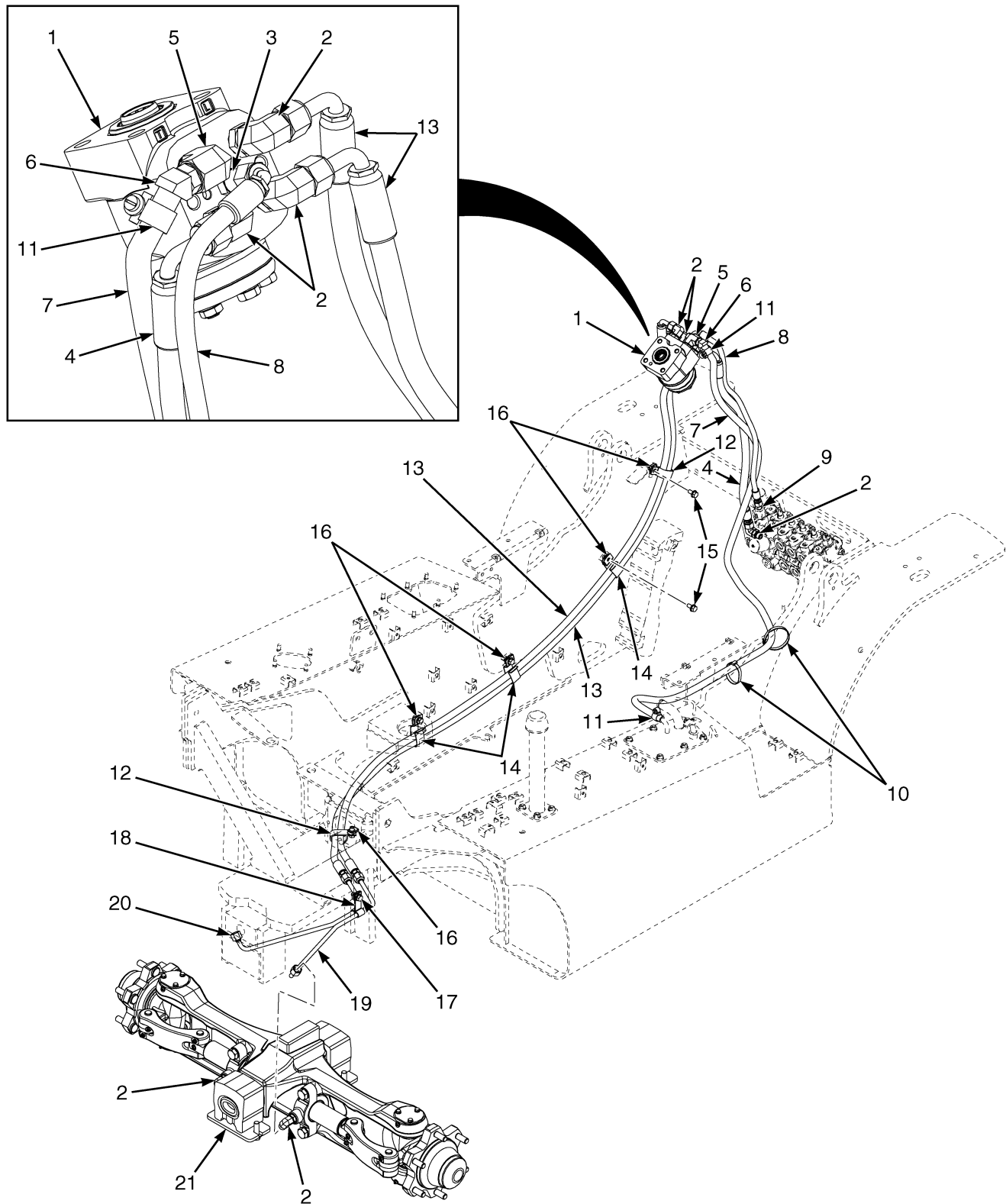


BP220411

STEERING COLUMN AND ATTACHING PARTS**KEY:****A: Forward/Reverse Lever with Turn Indicator****B: Monotrol with Turn Indicator**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4140386	Steering Wheel (Without Knob)	1	1
1	2055155	Pad (Horn)	1	1
1	2055157	Kit-Switch	1	1
1	2055047	Steering Wheel (With Knob)	1	1
1	2055156	Knob (Spinner)	1	1
1	2055155	Pad (Horn)	1	1
1	2055157	Kit-Switch	1	1
2	2095599	Lever (Combi Assy F/R)	1	..
2	2101680	Switch (FNR)	1	1
2	2101681	Switch (Light and Turn)	1	1
2	2101683	Contact (Horn)	1	1
2	2101684	Sensor (Steer Angle)	1	1
3	2098541	Lever (Combi Assy Monotrol)	..	1
3	2101681	Switch (Light and Turn)	1	1
3	2101683	Contact (Horn)	1	1
3	2101684	Sensor (Steer Angle)	1	1
4	2082131	Nut	1	1
5	292684	Lockwasher	1	1
6	302036	Screw	4	4
7	292679	Washer	4	4
8	292668	Nut	4	4
9	4132676	Steering Column Assembly	1	1
10	2110269	Lever Assembly	1	1
11	293762	Capscrew	1	1
12	4639308	Steering Column Support Assembly	1	1
13	2027984	Bolt	2	2
14	320161	Washer	1	1
15	2021237	Nut	2	2
16	4109993			
	1527879	Capscrew	4	4
17	320161	Washer	1	1
18	1586629	Capscrew	4	4
19	2083984	Cap	..	1
20	4165546	Spacer	4	4

STEER CONTROL UNIT AND ATTACHING STEER HOSES (FIGURE 8-4)

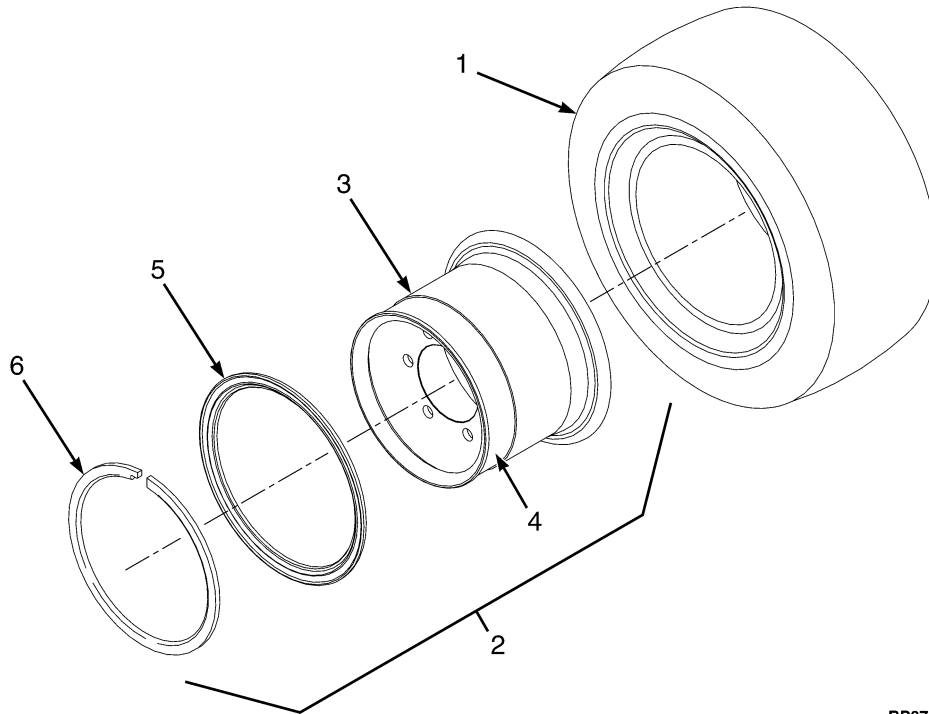


BP150814

STEER CONTROL UNIT AND ATTACHING STEER HOSES**KEY:****A: Short Wheel Base****B: Long Wheel Base**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4645088	Steering Control Unit	1	1
2	1487063	Fitting	6	6
3	4139602	Fitting	1	1
4	4655171	Hose Assy	1	1
5	4118727	Fitting	1	1
6	222501	Fitting	1	1
7	4649497	Hose	1	1
8	4649493	Hose Assy	1	1
9	1486737	Fitting	1	1
10	129563	Strap Clamp	2	2
11	166857	Clamp	2	2
12	110322	Clamp	2	2
13	4645851	Hose Assy	2	2
14	1544157	Clip	3	3
15	4109993			
	1527879	Capscrew	5	5
16	1480237	Nut , Foldover	6	6
17	1527880	Capscrew	1	1
18	188631	Clamp	2	2
19	4649080	Tube Assy (To Steer Axle)	1	..
19	4649082	Tube Assy (To Steer Axle)	..	1
20	4649081	Tube Assy (To Steer Axle)	1	..
20	4649083	Tube Assy (To Steer Axle)	..	1
21	4141680	Steering Axle Assembly ( Figure 8-1).....	1	1

STEER TIRES AND WHEELS (FIGURE 8-5)



BP070182

KEY:

A: 6.00 x 9 (H40-50XT)

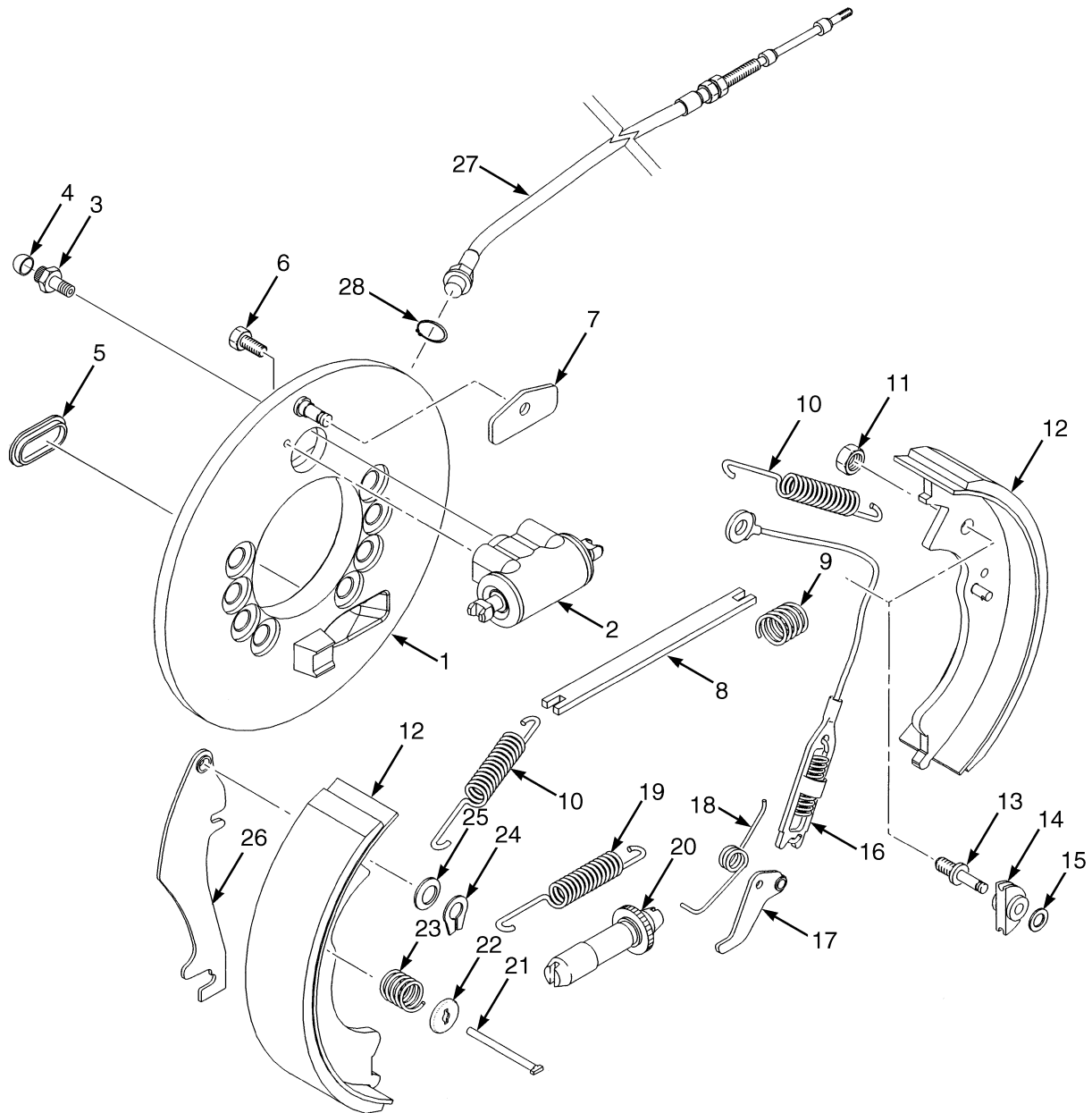
B: 6.50 x 10 (H40-60XT)

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1544996	Wheel And Tire (Standard Compound)	2	..
	1603465	Wheel And Tire (Non-Marking Compound)	2	..
	1544999	Wheel And Tire (Standard Compound)	..	2
	1603466	Wheel And Tire (Non-Marking Compound)	..	2
1	1688697	Solid Pneumatic Tire (Standard Compound)	1	..
1	1603489	Tire (Non-Marking) (Non-Marking Compound)	1	..
1	1544234	Solid Pneumatic Tire (6.50x10/5.0) (Standard Compound)	..	1
1	1603490	Tire (Non-Marking 6.50x10/5.0) (Non-Marking Compound)	..	1
2	2070081	Rim (4.00 x 9)	1	..
2	2067044	Wheel Assy (5.00 x 10)	..	1
3	2070083	Rim	1	..
3	2067045	Rim	..	1
4	161885	Wheel Side Ring	1	..
4	1580426	Wheel Side Ring	..	1
5	1584693	Wedge Band	1	..
5	1580427	Wedge Band	..	1
6	161884	Wheel Lock Ring	1	..
6	161894	Wheel Lock Ring	..	1

**SECTION 9
BRAKE SYSTEM**

DESCRIPTION	PAGE
BRAKE ASSEMBLY	9-2
BRAKE LINKAGE, SINGLE PEDAL	9-6
PARK BRAKE ASSEMBLY	9-12
PARK BRAKE ATTACHING PARTS	9-10

BRAKE ASSEMBLY (FIGURE 9-1)



BP040047

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2097070	Brake Assy , RH (With Cable and Shield)	1	..
	2097069	Brake Assy , LH (With Cable and Shield)	..	1
	2098746	Brake Assy	1	..
	2098745	Brake Assy	..	1
1	2098748	Backplate	1	..
1	2098747	Backplate	..	1
2	1565290	Wheel Cylinder	1	1
2	1334647	Kit-Repair Wheel Cylinder	1	1
3	1361503			
	4098513	Bleeder Screw	1	1
4	1361504	Cap	1	1
5	1334642	Cover	1	1
6	1565303	Bolt	2	2
7	2037343	Wear Plate	1	1
8	1360796	Strut	1	..
8	1361507	Strut	..	1
9	1360797	Spring	1	1
10		Spring	1	1
11		Nut	1	1
12	2080798	Kit-Brake Shoe	1	..
12	2080797	Kit-Brake Shoe	..	1
13		Pin	1	1
14	1334644	Sheave	1	1
15	1361500	Washer	1	1
16	1565310	Kit-Adjuster , RH	1	..
16	1565309	Kit-Adjuster , LH	..	1
17	2037518	Lever	1	..
17	2037517	Lever	..	1
18		Spring	1	1
19	2037340	Spring	1	1
20	1565295			
	1600492	Adjuster	1	..
20	1565294			
	1600491	Adjuster	..	1
21	2037323	Pin	1	1
22	2037341	Cup	1	1
23		Spring	1	1
24	1338916	Retainer	1	1
25	1338917	Washer	1	1
26		Park Brake Lever	1	1
27	2080796	Cable Assy	1	..
27	2080795	Cable Assy	..	1
28	1361502	Snap Ring	1	1
	1565316	Kit-Spring (Includes Items 10)	1	1
	1565310	Kit-Adjuster , RH (Includes Items 16-19)	1	..
	1565309	Kit-Adjuster , LH (Includes Items 16-19)	..	1

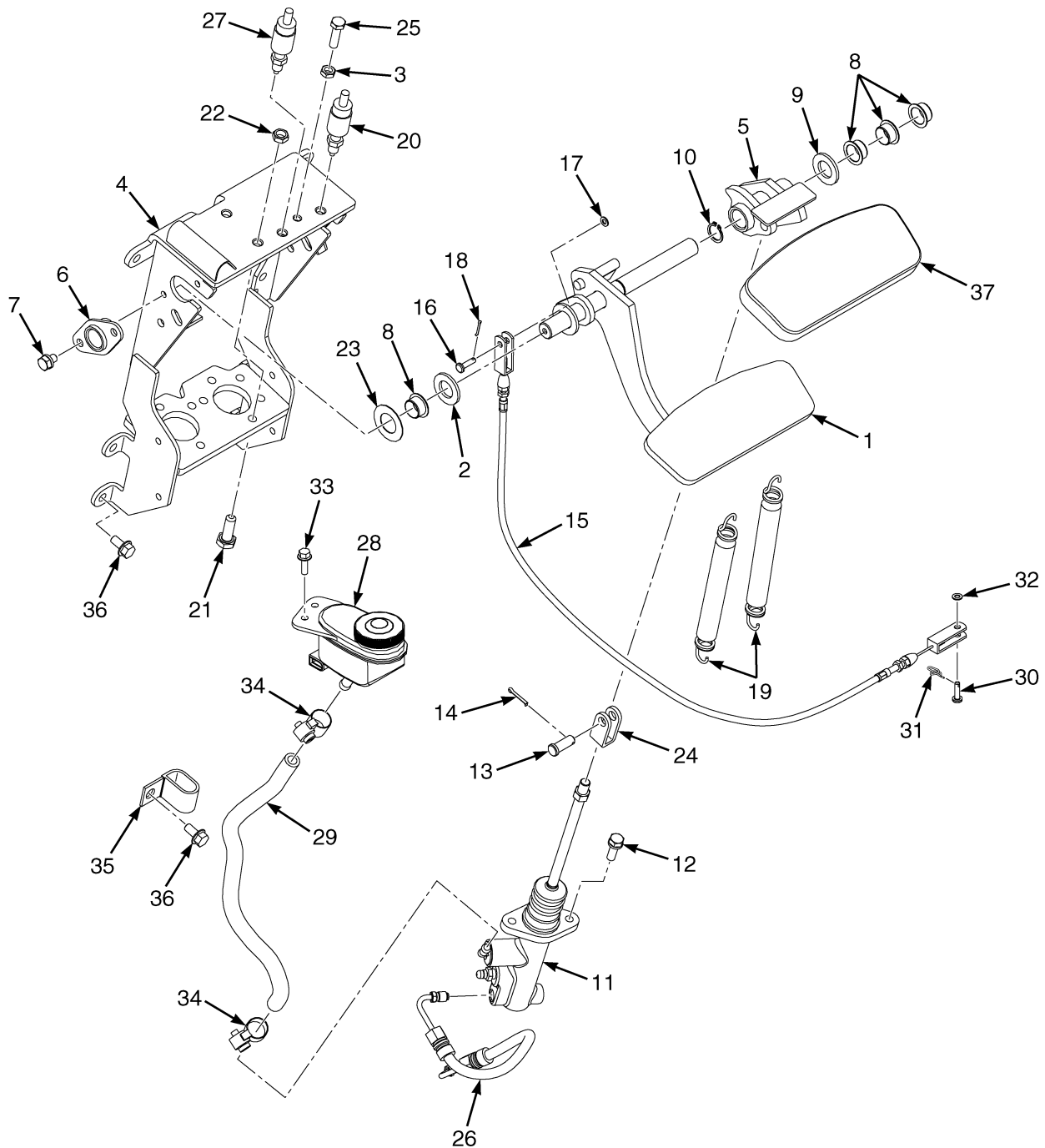
BRAKE ASSEMBLY**KEY:****A:** Right Hand**B:** Left Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1565312	Kit-Park Brake , RH (Includes Items 8-9, 24-26)	1	..
	1565311	Kit-Repair Parking Brake , LH (Includes Items 8-9, 24-25)	..	1

NOTES

[illegible]

BRAKE LINKAGE, SINGLE PEDAL (FIGURE 9-2)



BP040275

BRAKE LINKAGE, SINGLE PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	4164253	Pedal Assy	1
	2081562	Pedal	1
2	320167	Washer	1
3	2304281	Nut	1
4	4631136	Bracket Wldmt	1
5	4631133	Bellcrank	1
6	2081566	Plate	2
7	2079532	Capscrew	4
8	2080633	Bushing	4
9	320167	Washer	2
10	2081640	Snap Ring	1
11	4601898	Master Cylinder	1
11	2082402	Kit-Repair Master Cylinder	1
11	2082407	Push Rod	1
11	1566142	Nut	1
11	1566143	Fitting	1
11	1566144	Gasket	1
11	2082405	Bleeder Valve	1
11	2082406	Cap	1
12	2079535	Capscrew	2
13	2021339	Pin	1
14	2037317	Pin	1
15	4613248	Cable Assy	1
16	2022509	Pin	1
17	320155	Washer	1
18	2027998	Cotter Pin	1
19	2080634	Spring	2
20	2021434	Switch	1
21	367323	Capscrew	1
22	2022946	Nut	1
23	2027154	Shim	AR
24	2082403	Yoke	1
25	176640	Bolt	1
26	4654029	Hose Assy	1
27	2021434	Switch (Monotrol Only)	1
28	a 2081571	Reservoir Assembly	1
28	2081569	Reservoir	1
28	2082412	Kit	1
29	4654370	Hose	1
29	2081554	Hose	1
29	b 4099377	Wrap	1
30	2022509	Pin	1
31	1517361	Locking Ring Cotter Pin	1
32	320155	Washer	1
33	1527877	Capscrew	2
34	166857	Clamp	2
34	2028063	Hose Clamp	2
34	b c 168718	Clamp	1
35	1347314	Clamp	1
36	4109993		
	1527879	Capscrew	8

BRAKE LINKAGE, SINGLE PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
37	1343624	Pad	1

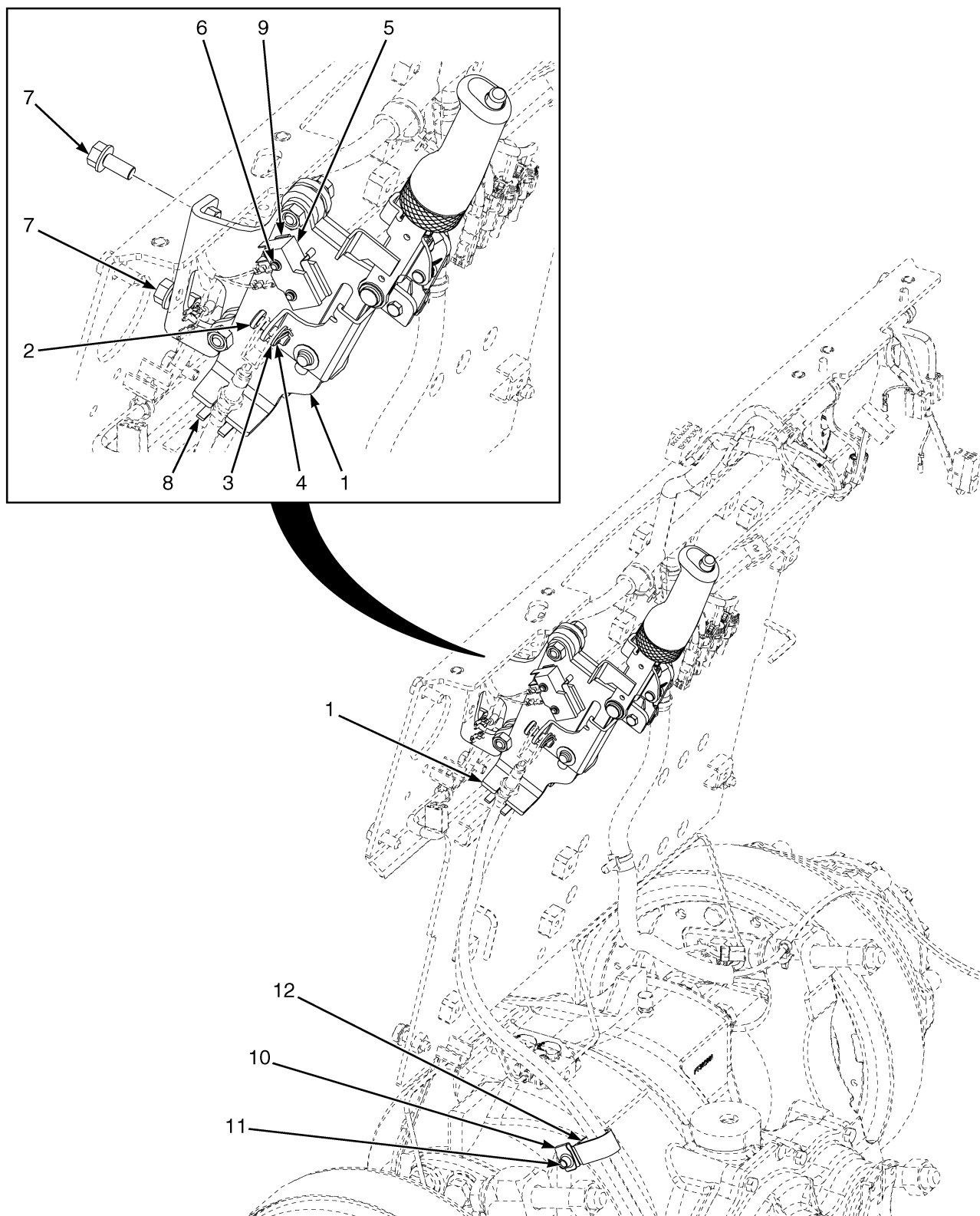
FOOTNOTES:

- a** Includes hose
b Not Illustrated
c Used with Wrap

NOTES

[illegible]

PARK BRAKE ATTACHING PARTS (FIGURE 9-3)

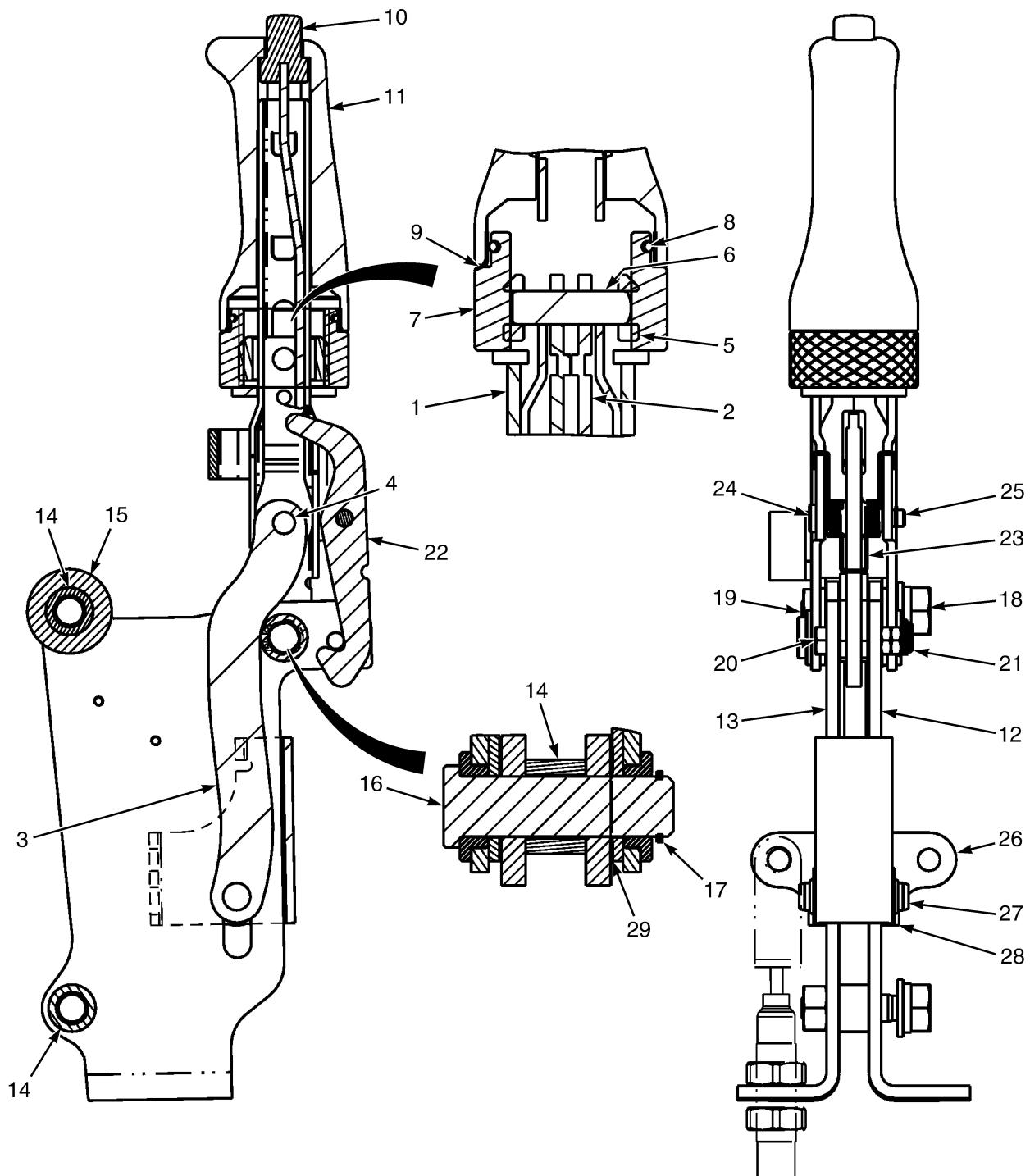


BP040264

PARK BRAKE ATTACHING PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	4610038	Parking Brake (☞Figure 9-4).....	1
2		Pin	2
3	320157	Washer	2
4	1530010	Lockring , Locking Ring Cotter Pin	2
5	370868	Switch Micro (Park Brake)	1
6	2082210	Screw	2
7	1586013	Capscrew	2
8		Plate	1
9	2098230	Spacer	1
10	1480237	Nut , Foldover	1
11	4109993		
	1527879	Capscrew	1
12	203230	Clamp	1

PARK BRAKE ASSEMBLY (FIGURE 9-4)



BP040259

PARK BRAKE ASSEMBLY

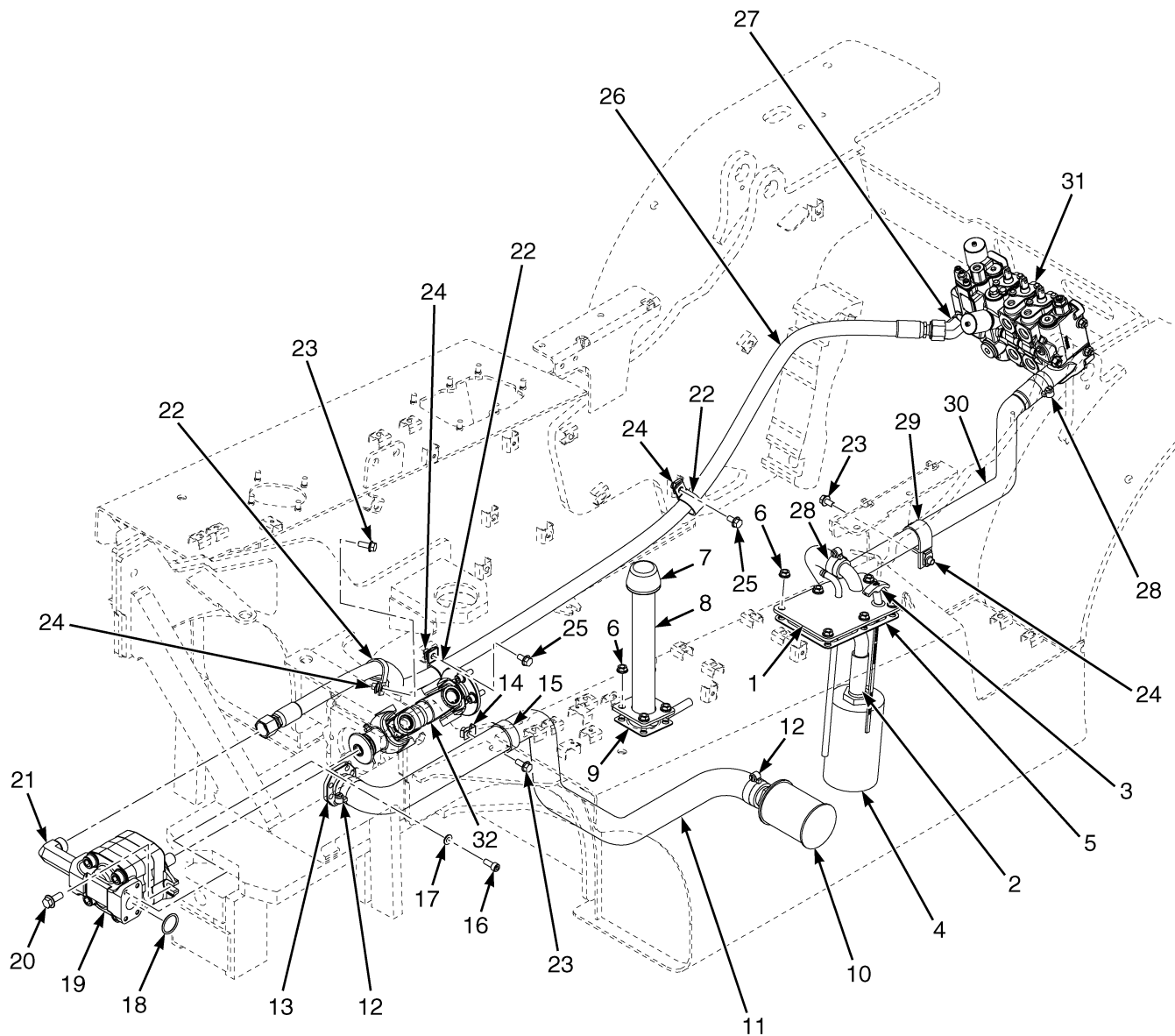
ITEM	PART NO.	DESCRIPTION	QTY
	2094215	Parking Brake Assembly	1
1	2094226	Parking Brake Lever	1
2		Connecting Plate	2
3	2082003	Link	1
4	2027744	Pin	1
5		Inner Collar	1
6	2082673	Dowel	1
7		Knob Adjust	1
8	2082039	O-Ring	1
9		Knob Plate	1
10		Push Rod Assy	1
11	2082042	Grip	1
12	2082020	Guide	1
13	2082021	Guide	1
14		Spacer	3
15		Rubber Collar	1
16		Pin	1
17	2028152	Snap Ring	1
18	2079560	Bolt	2
19	136692	Nut	2
20	2082640	Bolt	1
21	2021892	Nut	2
22	2089026	Hook	1
23	2029526	Spring	1
24	2029527	Pin	1
25	2029623	Retaining Ring	1
26		Slider Cable	1
27	1633069	Pin	1
28	2082872	Locknut	1
29	2311502	Shim (0.015 in.)	AR

[illegible]

SECTION 10 HYDRAULIC SYSTEM

DESCRIPTION	PAGE
HAND LEVERS	
THREE AND FOUR FUNCTION	10-8
THREE AND FOUR FUNCTION WITH RTST	10-10
HYDRAULIC CONTROL VALVE	
AUXILIARY SECTION - MANUAL CONTROLS	10-19
AUXILIARY SECTION - E-HYDRAULIC CONTROLS	10-30
E-HYDRAULIC CONTROLS - THREE AND FOUR FUNCTION	10-22
INLET SECTION - MANUAL CONTROLS	10-14
INLET SECTION - E-HYDRAULIC CONTROLS	10-24
LIFT SECTION - MANUAL CONTROLS	10-16
LIFT SECTION - E-HYDRAULIC CONTROLS	10-26
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TILT CYLINDERS	10-37
TILT HYDRAULICS AND ACCUMULATOR	10-34

HYDRAULIC SUPPLY AND RETURN (FIGURE 10-1)

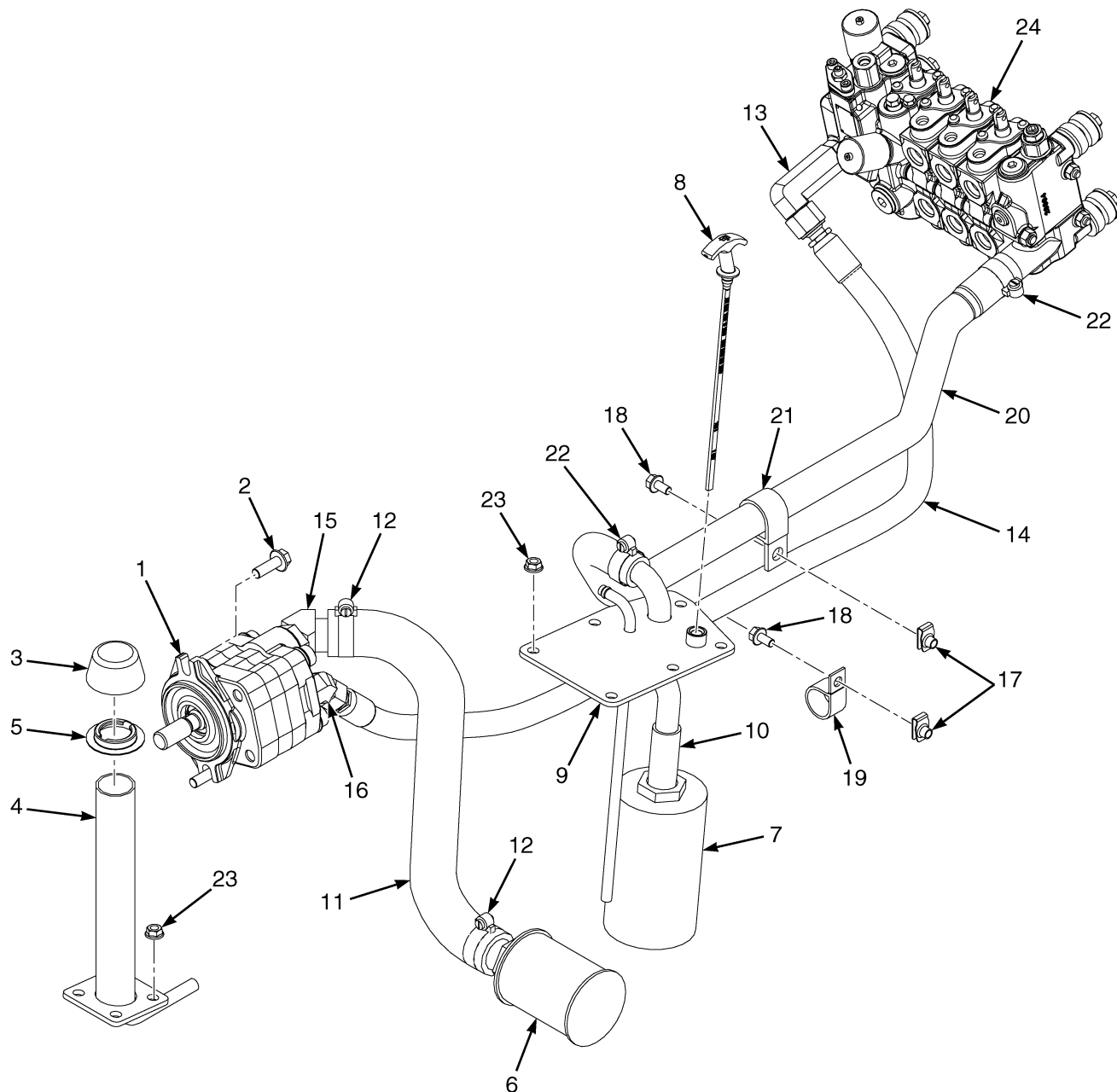


BP150790

HYDRAULIC SUPPLY AND RETURN

ITEM	PART NO.	DESCRIPTION	QTY
1	4167739	Cover	1
2	4654240	Pipe	1
3	4163085	Dipstick Assembly	1
3	4163069	O-Ring	1
3	2060809	Dipstick	1
3	1580682	O-Ring	1
4	2021933	Hydraulic Filter (Return)	1
5	4158779	Gasket	1
6	1382472		
	1502543	Nut	10
7	2021908	Cap	1
8	4167741	Filler Neck	1
9	4158780	Gasket	1
10	2028634	Filter	1
11	4645212	Hose	1
12	369804	Clamp	2
13	4639758	Connector	1
14	1398062	Nut (Fold Over)	1
15	181899	Clamp	1
16	296010	Capscrew	2
17	320157	Washer	2
18	2021909	O-Ring	1
19	4646465	Gear Pump	1
19	4101928	Plate	2
19	4154608	Screw	4
19	4154609	Kit-Seal	1
20	1510117	Capscrew	2
21	1486555	Fitting	1
22	166112	Clamp	3
23	1527880	Capscrew	2
24	1480237	Nut , Foldover	4
25	4109993		
	1527879	Capscrew	3
26	4640892	Hose Assy	1
27	1516205	Fitting	1
28	2306118	Clamp	2
29	1320114	Clamp	1
30	4648666	Hose (Three Function)	1
30	4648667	Hose (Four Function)	1
30	4648665	Hose (Two Function)	1
31		Hydraulic Control Valve (☞Figure 10-7, ☞Figure 10-13).....	1
32	4113562	Drive Shaft (☞Figure 10-4).....	1

HYDRAULIC SUPPLY AND RETURN (FIGURE 10-2) DIESEL, 24CC

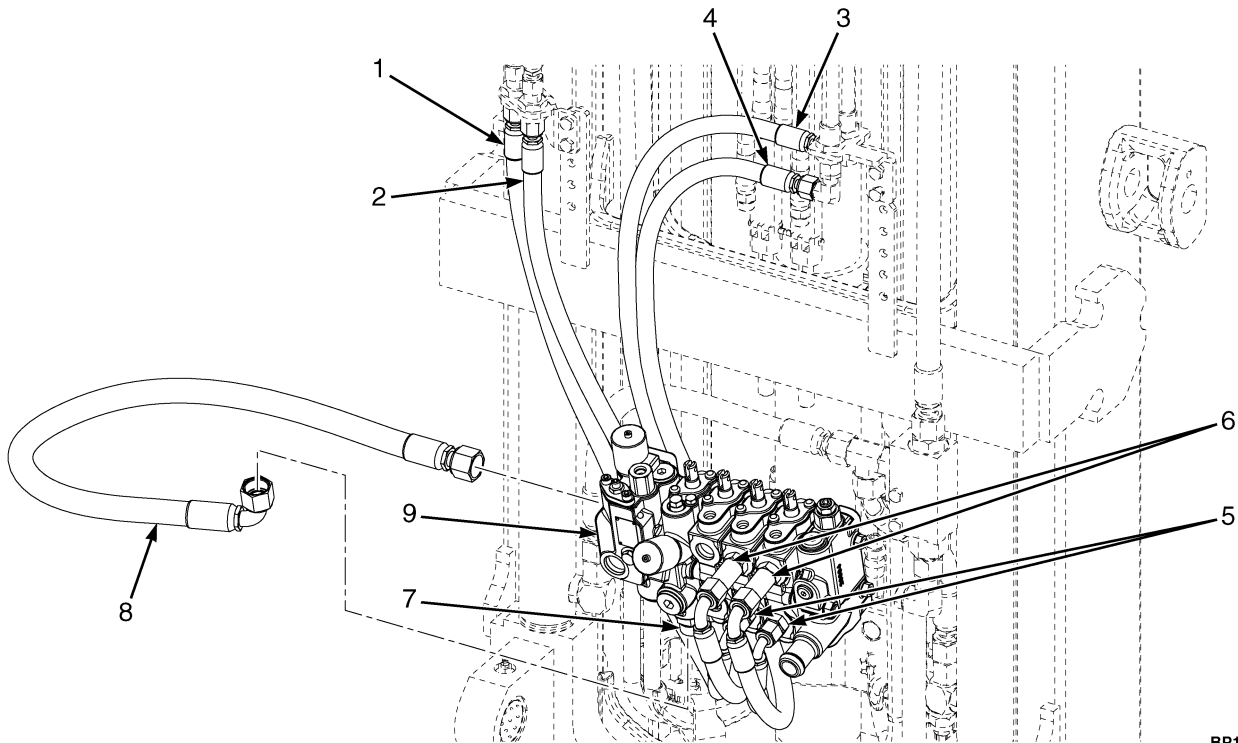


BP150835

**HYDRAULIC SUPPLY AND RETURN
DIESEL, 24CC**

ITEM	PART NO.	DESCRIPTION	QTY
1	4644977	Gear Pump	1
1	4101928	Plate	2
1	4154611	Screw	4
1	4154609	Kit-Seal	1
1	16487	O-Ring (Pump to Supply Hose)	1
2	1527884	Capscrew	2
3	2021908	Cap	1
4	4167741	Filler Neck	1
5		Mouth Piece, Filler Neck	1
6	2028634	Filter	1
7	2021933	Hydraulic Filter (Return)	1
8	2060809	Dipstick	1
9	4167739	Cover	1
10	4654240	Pipe	1
11	2082189	Hose	1
12	369804	Clamp	2
13	1486555	Fitting	1
14	4649496	Hose Assy	1
15	134173	Fitting	1
16	1516205	Fitting	1
17	1480237	Nut , Foldover	2
18	4109993		
	1527879	Capscrew	2
19	166112	Clamp	1
20	4648667	Hose	1
21	1320114	Clamp	1
22	2306118	Clamp	1
23	1382472		
	1502543	Nut	10
24		Hydraulic Control Valve (☞Figure 10-7, ☞Figure 10-13).....	1

HYDRAULIC HOSES (FIGURE 10-3) 3 AND 4 FUNCTION



BP150813

KEY:

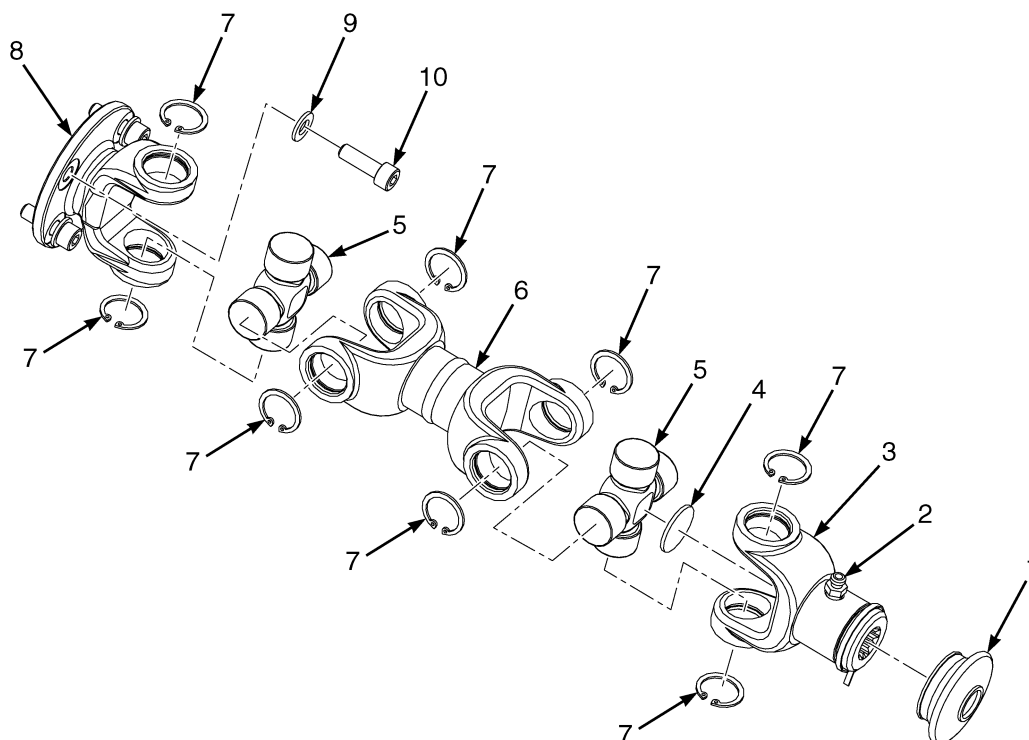
A: 3 Function

B: 4 Function

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4638546	Hose Assy (Manual Hydraulic Control Valve)	1	..
1	4652942	Hose Assy (Electro-Hydraulic Control Valve)	1	..
2	4638547	Hose Assy (Manual Hydraulic Control Valve)	1	..
2	4652943	Hose Assy (Electro-Hydraulic Control Valve)	1	..
3	4640866	Hose Assy (Manual Hydraulic Control Valve)	1	1
3	4652944	Hose Assy (Electro-Hydraulic Control Valve)	1	1
4	4638549	Hose Assy (Manual Hydraulic Control Valve)	1	1
4	4652945	Hose Assy (Electro-Hydraulic Control Valve)	1	1
5	1486742	Fitting	1	1
5	4159139	Fitting (Optional)	1	1
6	1490533	Fitting	1	1
7	1486749	Fitting	1	1
8	4640861	Hose Assy (Mast Hose)	1	1
	a 1529015	Cap (Hydraulic Hoses)	2	4
	a 1556898	Plug (Mast Hose)	1	1

FOOTNOTES:

a Not Illustrated

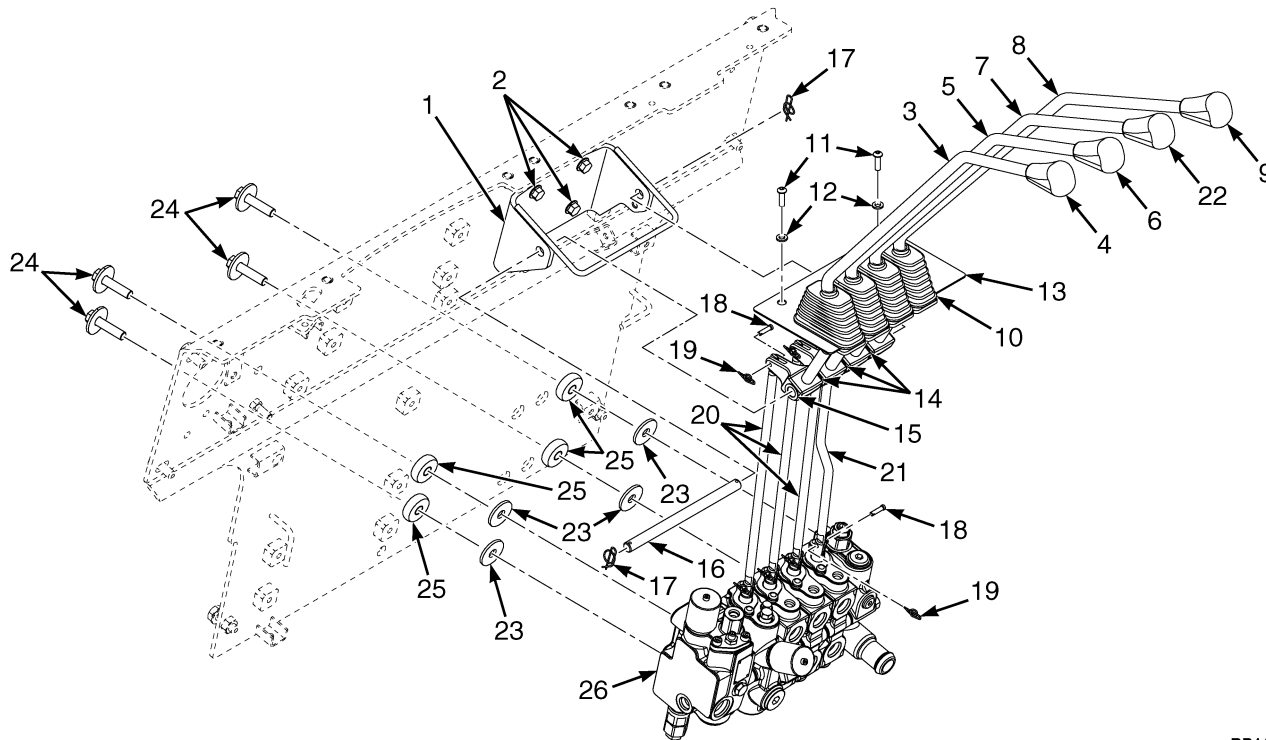
PUMP DRIVE ASSEMBLY (FIGURE 10-4)
PSI ENGINE

BP150833

ITEM	PART NO.	DESCRIPTION	QTY
	4113562	Drive Shaft	1
1	4142629	Boot	1
2	4142628	Grease Fitting	1
3	4142626	Yoke End	1
4	a	Dust Cover	1
5	4142624	Universal Joint	2
6	4142625	Yoke	1
7	4142623	Snap Ring	8
8	4142622	Yoke	1
9	296418	Washer	4
10	4147873	Capscrew	4

FOOTNOTES:**a** Service with 4142626

HAND LEVERS (FIGURE 10-5) THREE AND FOUR FUNCTION



BP140274

KEY:

A: Three Function

B: Four Function

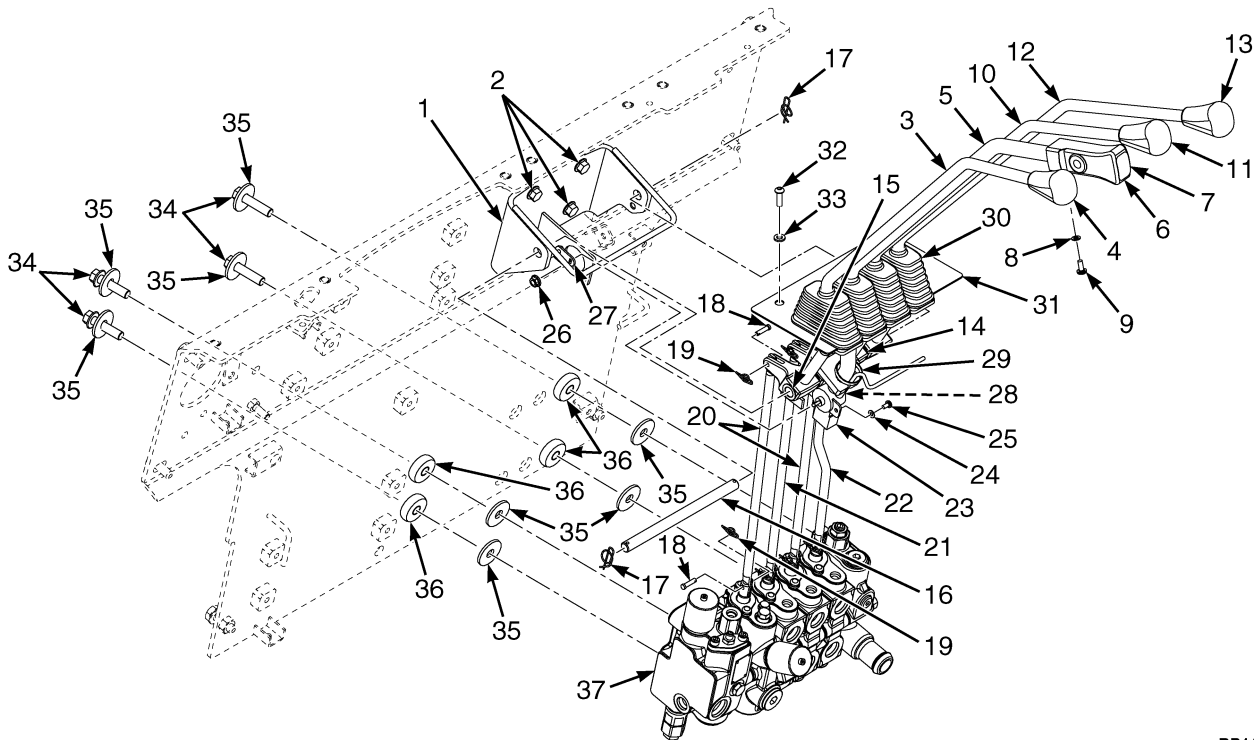
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2099872	Bracket Wldmt	1	1
2	4109993	1527879		
		Capscrew	4	4
3	2087129	Lever (Lift)	1	1
4	2055050	Knob	1	1
5	2087130	Lever (Tilt)	1	1
6	2055051	Knob	1	1
7	2087131	Lever (Third)	1	1
8	2090706	Lever (Fourth)	..	1
9	2059511	Knob	..	1
10	2081863	Boot	3	4
11	1710006	Capscrew	2	2
12	4149893	Washer	2	2
13	4149814	4178100		
		Plate	1	..
13	4149813	4178099		
		Plate	..	1
14	2079337	Retaining Ring	2	3
15	2021810	Bushing	6	8
16	2081886	Pin	1	1
17	1530011	Pin , Cotter	2	2

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
18	2021817	Pin	6	8
19	1517361	Locking Ring Cotter Pin	6	8
20	2081859	Rod	3	3
21	2081860	Rod	..	1
22	2059511	Knob (Without Side-Shift)	1	1
22	2065919	Knob (With Side-Shift)	1	1
23	1669680	Washer	8	8
24	4073087			
	4094634	Capscrew	4	4
25	4652658	Isolator	4	4
26		Hydraulic Control Valve (☞ Figure 10-7).....	1	1
	a 2042745	Spacer	1	..

FOOTNOTES:**a** Not Illustrated

HAND LEVERS (FIGURE 10-6) THREE AND FOUR FUNCTION WITH RTST



BP140276

KEY:

A: Three Function

B: Four Function

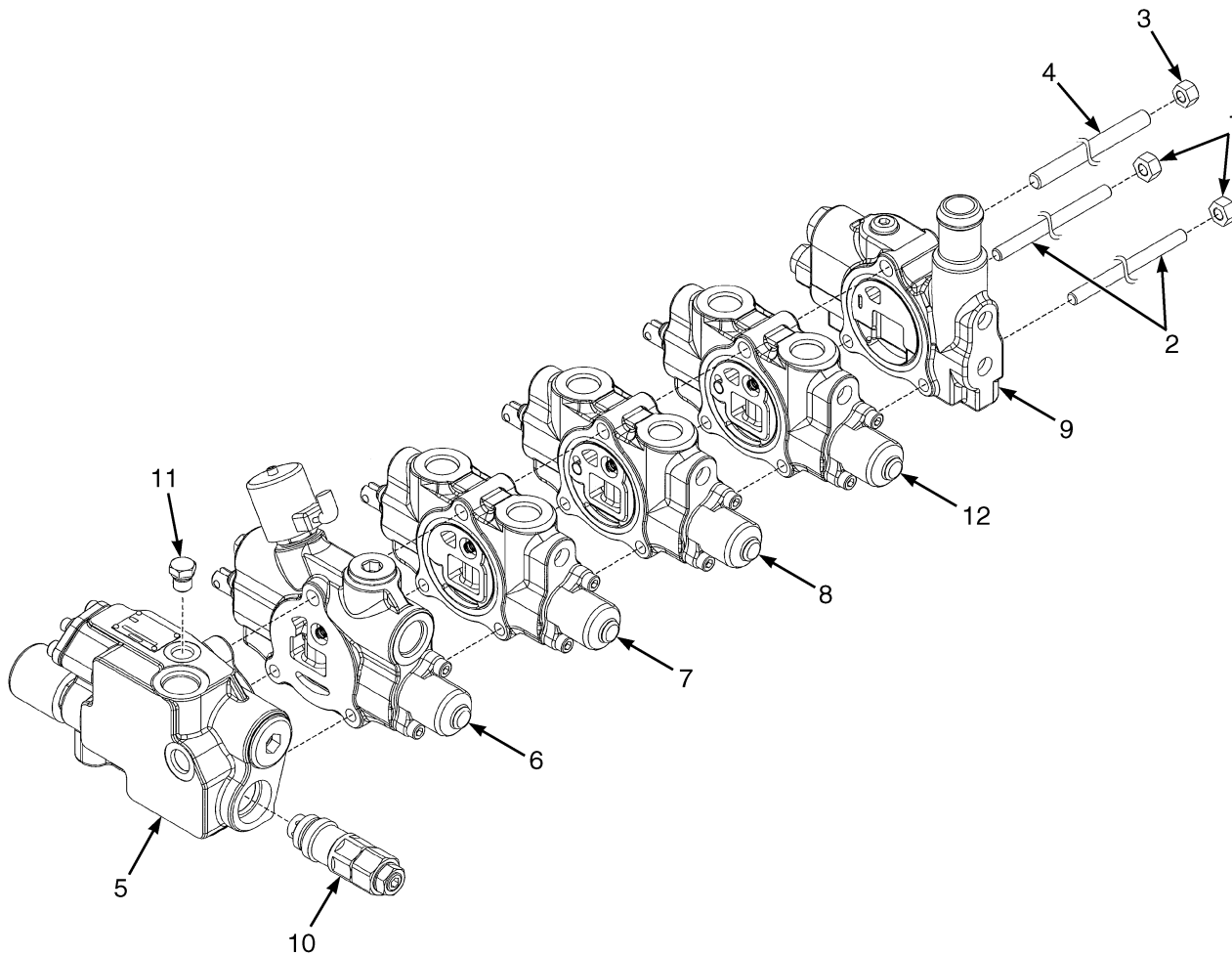
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2100133	Bracket Wldmt	1	1
2	4109993	1527879 Capscrew	4	4
3	2087129	Lever (Lift)	1	1
4	2055050	Knob	1	1
5	2092241	Lever	1	1
6	2091458	Switch	1	1
7	2093098	Label	1	1
8	320155	Washer	1	1
9	302033	Screw	1	1
10	2087131	Lever (Third)	1	1
11	2059511	Knob (Without Side-shift)	1	1
11	2065919	Knob (With Side-shift)	1	1
12	2090706	Lever	..	1
13	2059511	Knob	..	1
14	2079337	Retaining Ring	2	3
15	2021810	Bushing	6	8
16	2081886	Pin	1	1
17	1530011	Pin , Cotter	2	2
18	2021817	Pin	6	8
19	1517361	Locking Ring Cotter Pin	6	8

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
20	2081859	Rod	2	2
21	2092926	Rod	1	1
22	2081860	Rod	..	1
23	2055131	Sensor	1	1
24	320154	Washer	2	2
25	302019	Screw	2	2
26	4307884			
	1514429	Nut	1	1
27	2092925	Plate Wldmt	1	1
28	1356354	Bushing	1	1
29	137852	Strap Clamp	1	1
30	2081863	Boot	3	4
31	4149814			
	4178100	Plate	1	..
31	4149813			
	4178099	Plate	..	1
32	1710006	Capscrew	2	2
33	4149893	Washer	2	2
34	4073087			
	4094634	Capscrew	4	4
35	1669680	Washer	8	8
36	4652658	Isolator	4	4
37		Hydraulic Control Valve (Manual Hydraulic) (☞ Figure 10-7).....	..	..
	a 2042745	Spacer	1	..

FOOTNOTES:**a** Not Illustrated

HYDRAULIC CONTROL VALVE (FIGURE 10-7) MANUAL CONTROLS — THREE AND FOUR FUNCTION



BP140262

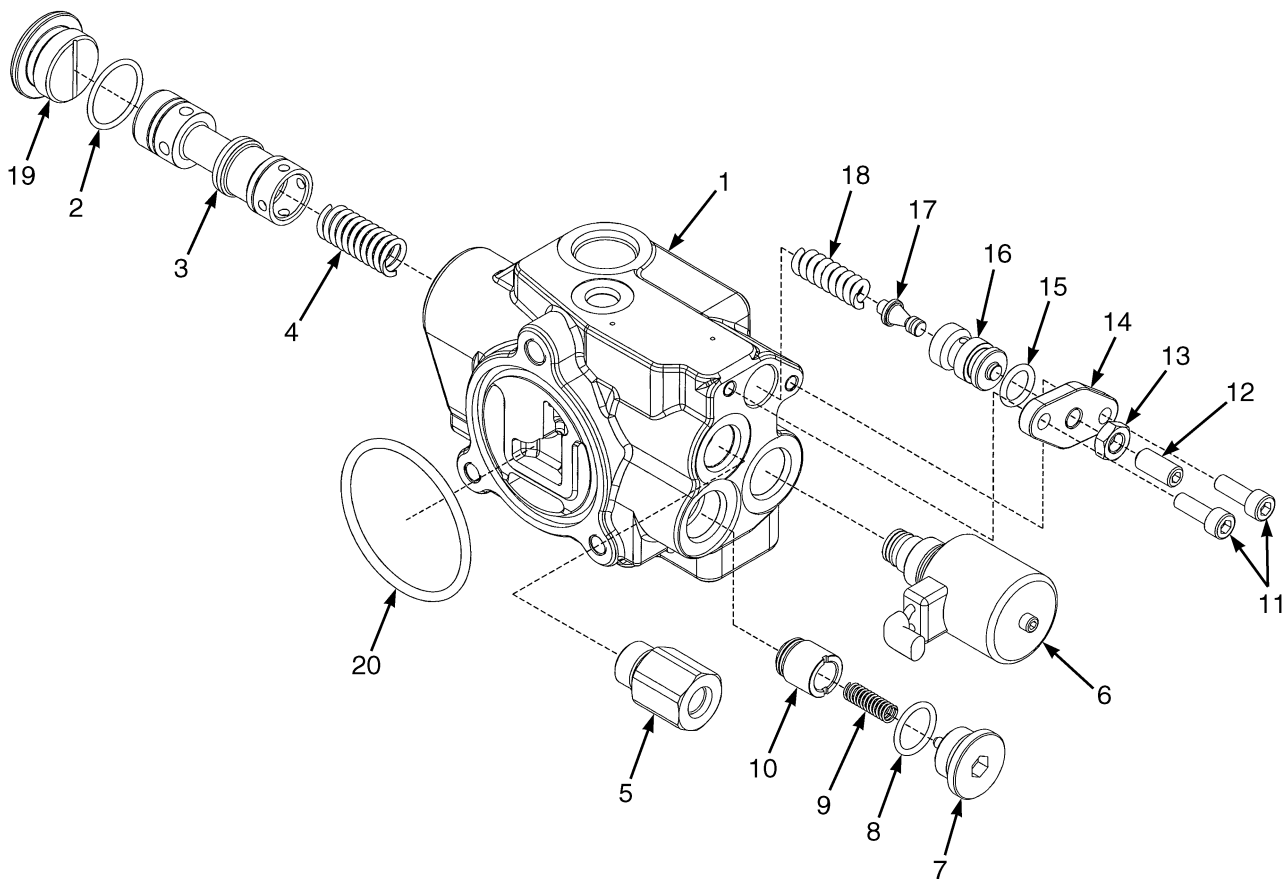
HYDRAULIC CONTROL VALVE

MANUAL CONTROLS – THREE AND FOUR FUNCTION

KEY:**A: 3 Function****B: 4 Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4649087	Hyd Control Valve	1	..
	4649088	Hyd Control Valve	..	1
1	2054988	Nut	2	2
2	2087450	Tie Rod	2	..
2	4154619	Tie Rod	..	2
3	2054990	Nut	3	3
4	2087455	Tie Rod	1	..
4	4154620	Tie Rod	..	1
5	4154666	Housing (☞Figure 10-8).....	1	1
6	4154621	Spool (Lift) (☞Figure 10-9).....	1	1
7	4154622	Spool (Tilt) (☞Figure 10-10).....	1	1
8	4154623	Spool (Aux. 1) (☞Figure 10-11).....	1	1
9	4154667	Housing (☞Figure 10-12).....	1	1
10	2096490	Relief Valve	1	1
11		Plug	1	1
12	4154623	Spool (Aux. 2)	..	1

HYDRAULIC CONTROL VALVE (FIGURE 10-8) INLET SECTION — MANUAL CONTROLS

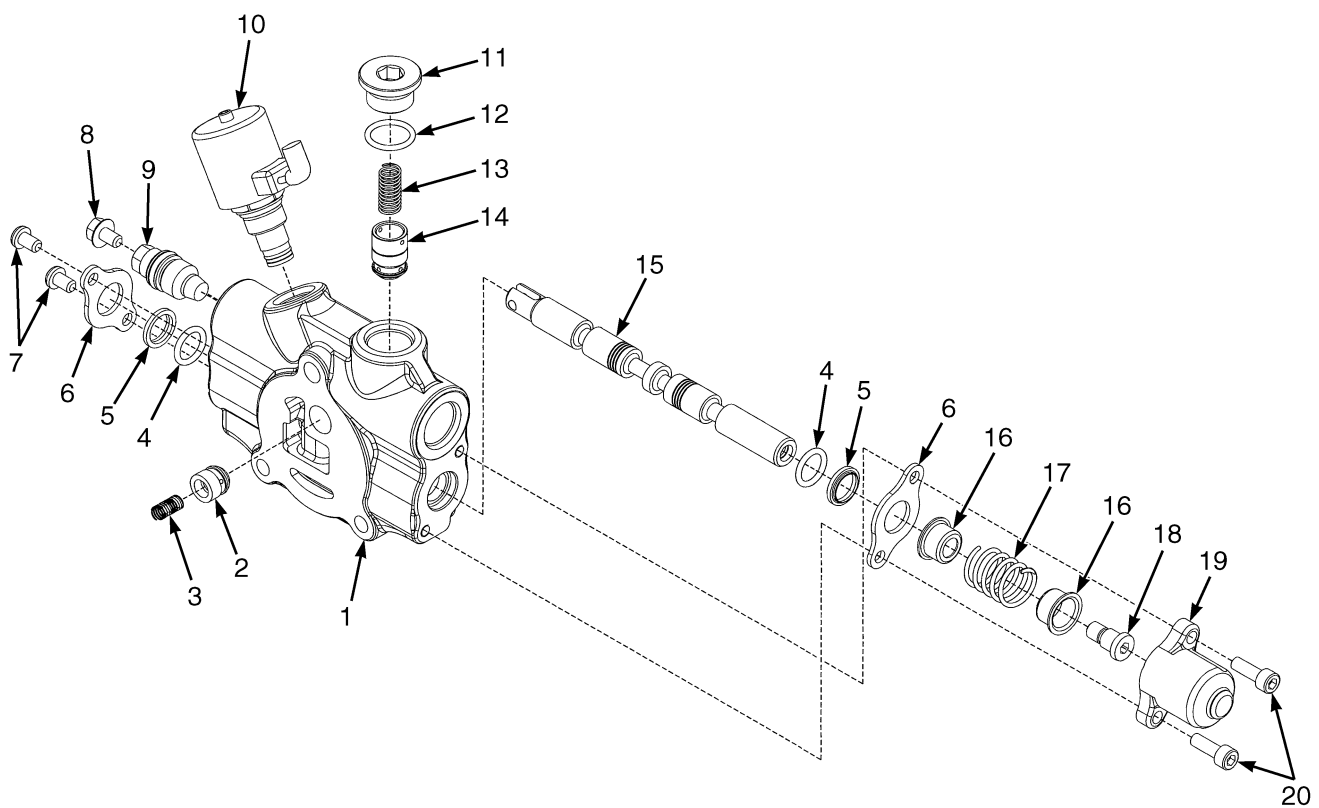


BP140263

**HYDRAULIC CONTROL VALVE
INLET SECTION – MANUAL CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
	4154666	Housing (Inlet)	1
2		O-Ring	1
3		Spool	1
4	4154626	Spring	1
5	4154634	Plug	1
6	2087834	Solenoid Valve	1
7	2087845	Plug	1
8	16484	O-Ring	1
9	2087849	Spring	1
10	2087846	Valve-Poppet	1
11	2055004	Capscrew	2
12	1367397	Setscrew	1
13	4154655	Nut	1
14	2087841	Plate	1
15		O-Ring	1
16		Housing	1
17		Poppet	1
18	1377257	Spring	1
19	2096414	Plug	1
20	2055002	O-Ring	1
	4652802	Kit-Seal Master (Includes Items 20)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-9) LIFT SECTION — MANUAL CONTROLS

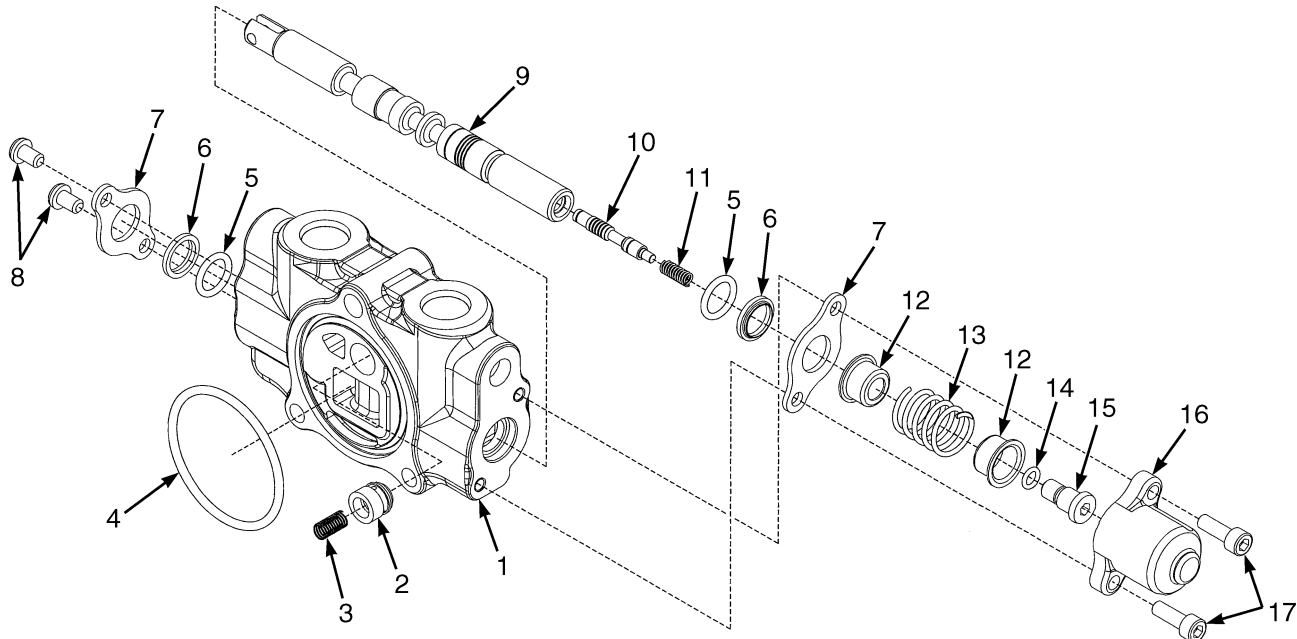


BP140264

**HYDRAULIC CONTROL VALVE
LIFT SECTION – MANUAL CONTROLS**

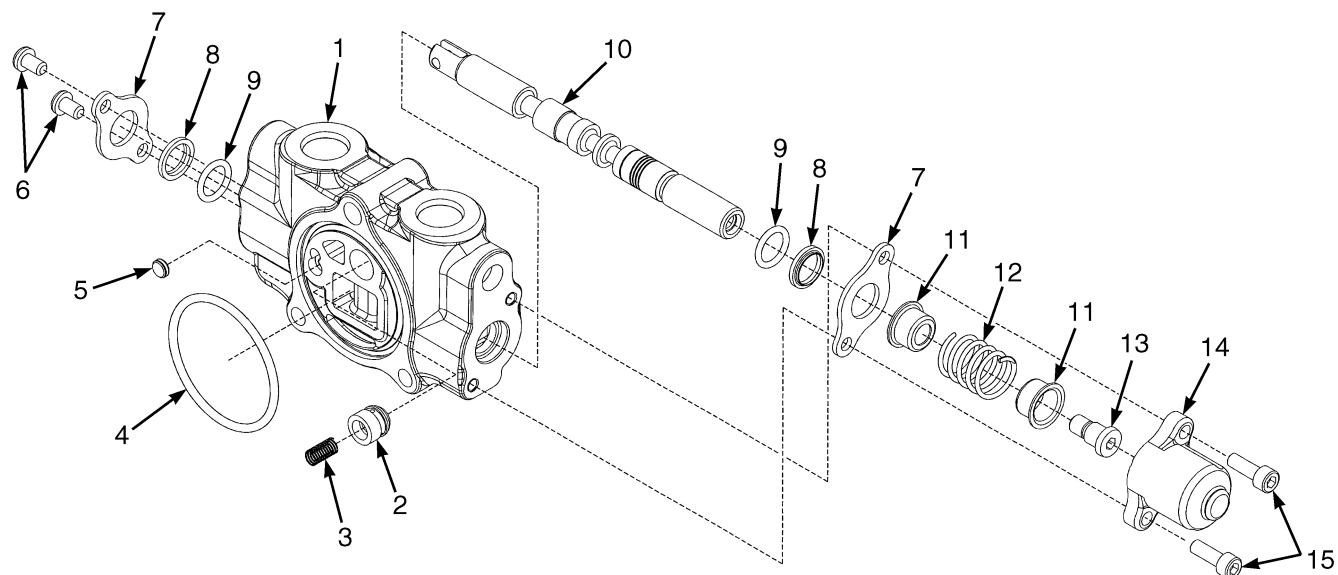
ITEM	PART NO.	DESCRIPTION	QTY
1	4154621	Spool (Tilt Section)	1
2	4154659	Valve-Poppet	1
3	2055001	Spring	1
4	4614505	O-Ring	2
5	4614506	Wiper	2
6	2054995	Plate	2
7	2055003	Screw	2
8	4154660	Bolt	1
9	4154658	Shutoff Valve	1
10	4154656	Solenoid	1
11	2087828	Plug	1
12		O-Ring	1
13	2087844	Spring	1
14	4154657	Valve-Poppet	1
15		Spool	1
16	2054997	Spring Seat	2
17	2087826	Spring	1
18	2054998	Capscrew	1
19	2054996	Cap	1
20	2055004	Capscrew	2

HYDRAULIC CONTROL VALVE (FIGURE 10-10) TILT SECTION — MANUAL CONTROLS



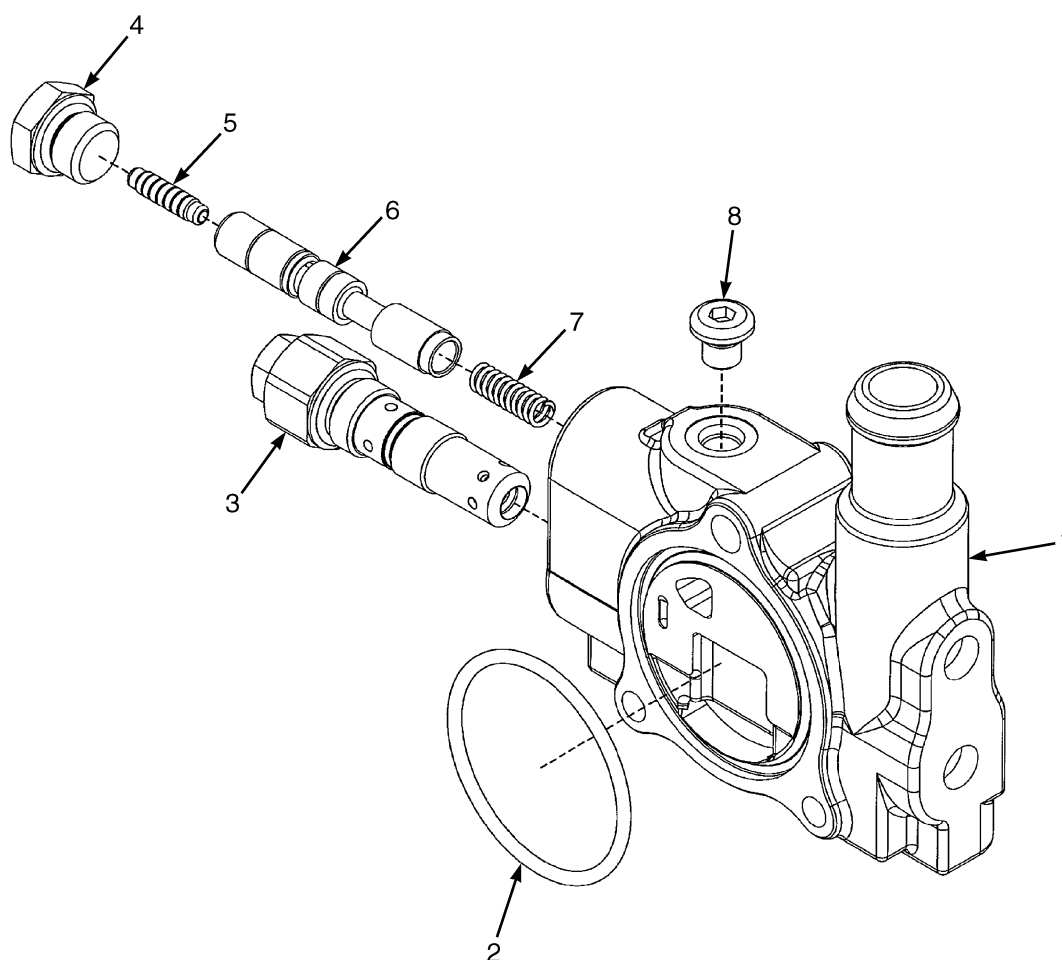
BP140265

ITEM	PART NO.	DESCRIPTION	QTY
1	4154622	Spool (Tilt Section)	1
2	4154659	Valve-Poppet	1
3	2055001	Spring	1
4	2055002	O-Ring	1
5	4614505	O-Ring	2
6	4614506	Wiper	2
7	2054995	Plate	2
8	2055003	Screw	2
9		Spool	1
10	4154662	Valve	1
11	2087851	Spring	1
12	2054997	Spring Seat	2
13	2087826	Spring	1
14	4614507	O-Ring	1
15	2087850	Capscrew	1
16	2054996	Cap	1
17	2055004	Capscrew	2
	4652802	Kit-Seal Master (Includes Items 4)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-11)
AUXILIARY SECTION — MANUAL CONTROLS

BP140266

ITEM	PART NO.	DESCRIPTION	QTY
1	4154623	Spool (Aux.1), (Aux.2)	1
2	4154659	Valve-Poppet	1
3	2055001	Spring	1
4	2055002	O-Ring	1
5		Plug	1
6	2055003	Screw	2
7	2054995	Plate	2
8	4614506	Wiper	2
9	4614505	O-Ring	2
10		Spool	1
11	2054997	Spring Seat	2
12	2087826	Spring	1
13	2054998	Capscrew	1
14	2054996	Cap	1
15	2055004	Capscrew	2
	4652802	Kit-Seal Master (Includes Items 4)	1

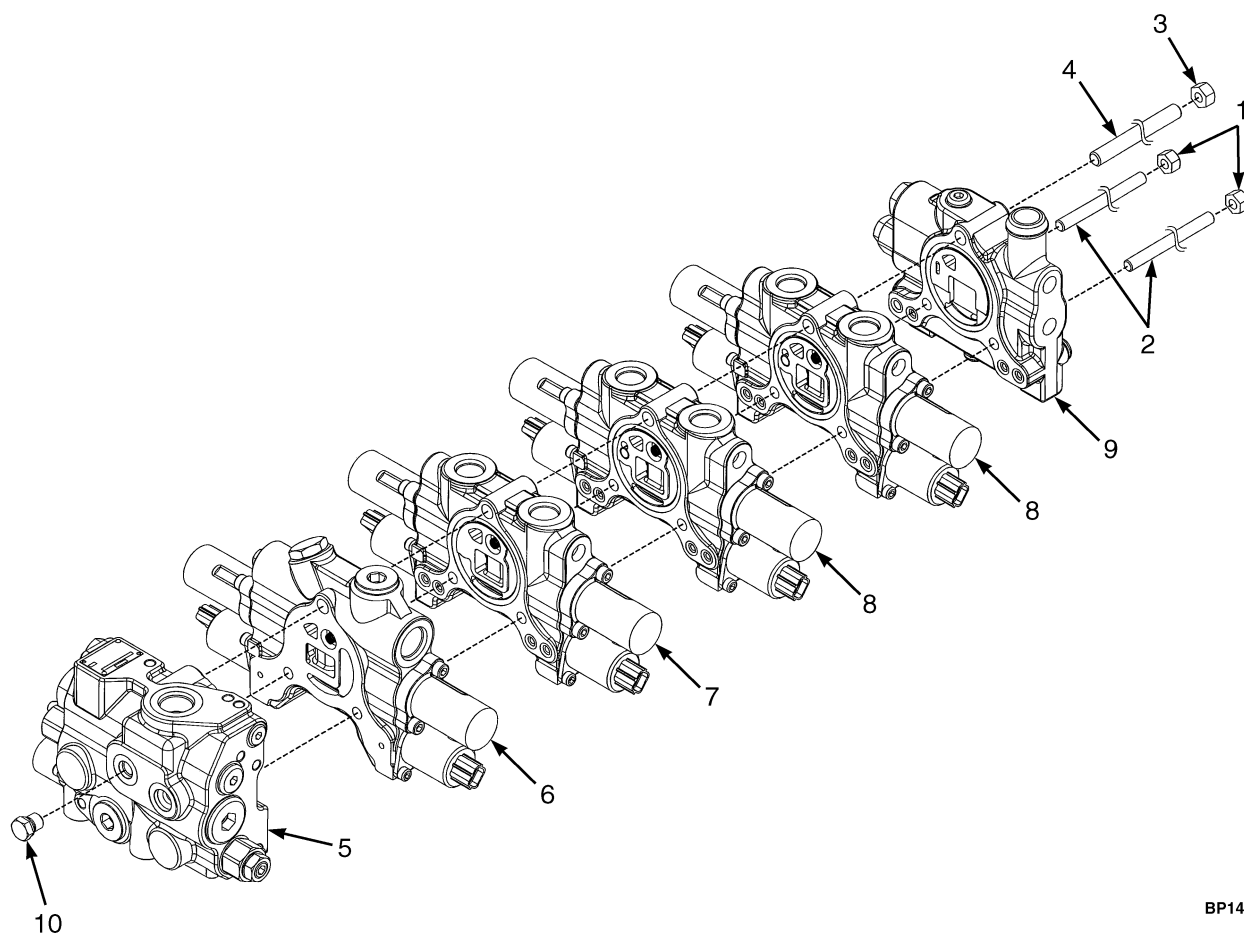
HYDRAULIC CONTROL VALVE (FIGURE 10-12)
OUTLET SECTION — MANUAL CONTROLS

BP140267

**HYDRAULIC CONTROL VALVE
OUTLET SECTION – MANUAL CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4154667	Housing (Outlet Section)	1
2	2055002	O-Ring	1
3	4154665	Relief Valve	1
4	4154664	Plug	1
5		Piston	1
6		Spool	1
7	4154663	Spring	1
8	2087836	Plug	1
	4168171	Kit-Relief Valve (Includes Items 3)	1
	4652802	Kit-Seal Master (Includes Items 2)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-13) E-HYDRAULIC CONTROLS — THREE AND FOUR FUNCTION



BP140268

HYDRAULIC CONTROL VALVE

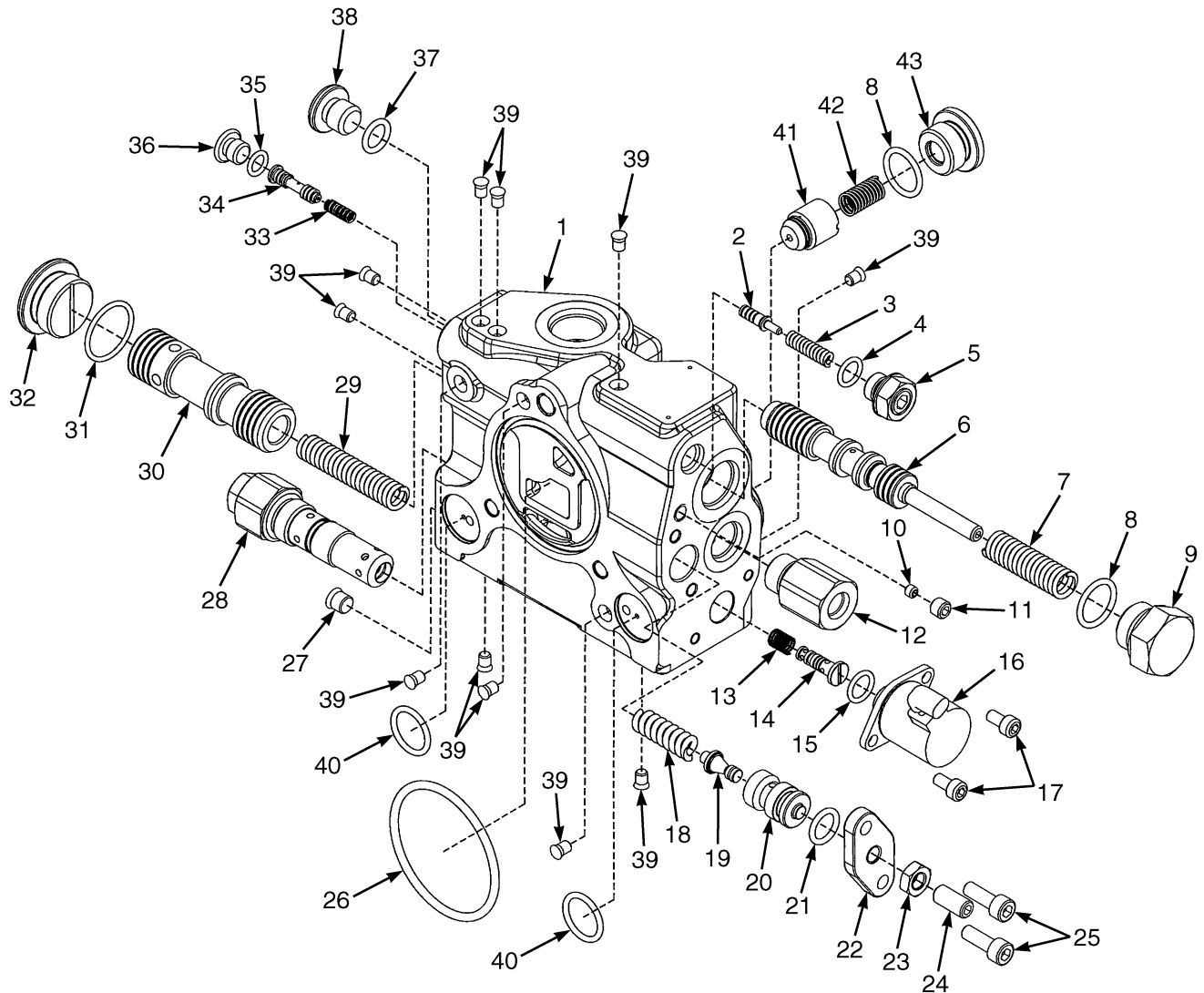
E-HYDRAULIC CONTROLS – THREE AND FOUR FUNCTION

KEY:**A: 3 Function****B: 4 Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4649089	Hyd Control Valve	1	..
	4649090	Hyd Control Valve	..	1
1	2054988	Nut	2	2
2	2087450	Tie Rod	2	..
2	4172957	Tie Rod	..	2
3	2054990	Nut	1	1
4	2087455	Tie Rod	1	..
4	4172958	Tie Rod	..	1
5	4173042	Housing Inlet Section (☞Figure 10-14).....	1	1
6	4173043	Housing Lift Section (☞Figure 10-15).....	1	1
7	4173044	Housing Tilt Section (☞Figure 10-16).....	1	1
8	4173045	Housing Auxiliary Section (☞Figure 10-17).....	1	2
9	4173046	Housing Outlet Section (☞Figure 10-18).....	1	1
10		Plug	1	1
	a 4652803	Kit-Seal	1	1

FOOTNOTES:**a** Not Illustrated

HYDRAULIC CONTROL VALVE (FIGURE 10-14) INLET SECTION — E-HYDRAULIC CONTROLS

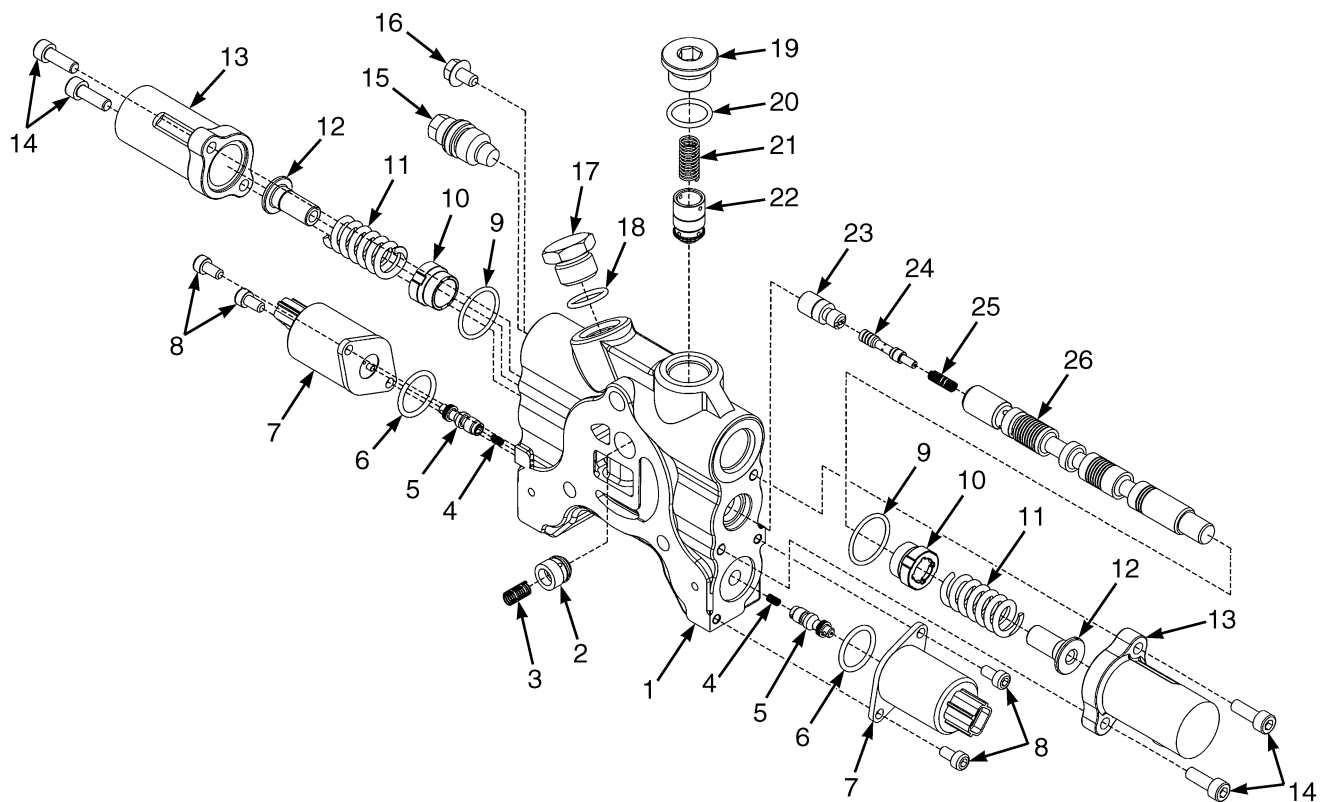


BP140269

**HYDRAULIC CONTROL VALVE
INLET SECTION – E-HYDRAULIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4173042	Housing Inlet Section	1
2		Piston	1
3	2096425	Spring	1
4	1377259	O-Ring	1
5	1377256	Kit-Adjuster	1
6		Spool	1
7	2096413	Spring	1
8	1328829	O-Ring	2
9	2096416	Plug	1
10		Plug	1
11	4087835	Plug	1
12	4154634	Plug	1
13	2096433	Spring	1
14		Shuttle	1
15		O-Ring	1
16	4173000	Solenoid	1
17	2096435	Bolt	2
18	1377257	Spring	1
19	1377263	Valve-Poppet	1
20	1377262	Housing	1
21	1377260	O-Ring	1
22	2087841	Plate	1
23	2087842	Nut	1
24	1367397	Setscrew	1
25	2055004	Capscrew	2
26	2055002	O-Ring	1
27		Plug	1
28	4168171	Kit-Relief Valve	1
29	2096412	Spring	1
30		Spool	1
31		O-Ring	1
32	2096414	Plug	1
33	4172959	Spring	1
34		Valve	1
35		O-Ring	1
36	4172960	Plug	1
37		O-Ring	1
38	2096419	Plug	1
39		Plug	11
40	4154733	O-Ring	1
41	2096429	Valve-Poppet	1
42	2087844	Spring	1
43	2087828	Plug	1
	4652803	Kit-Seal (Includes Items 26, 40)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-15) LIFT SECTION — E-HYDRAULIC CONTROLS

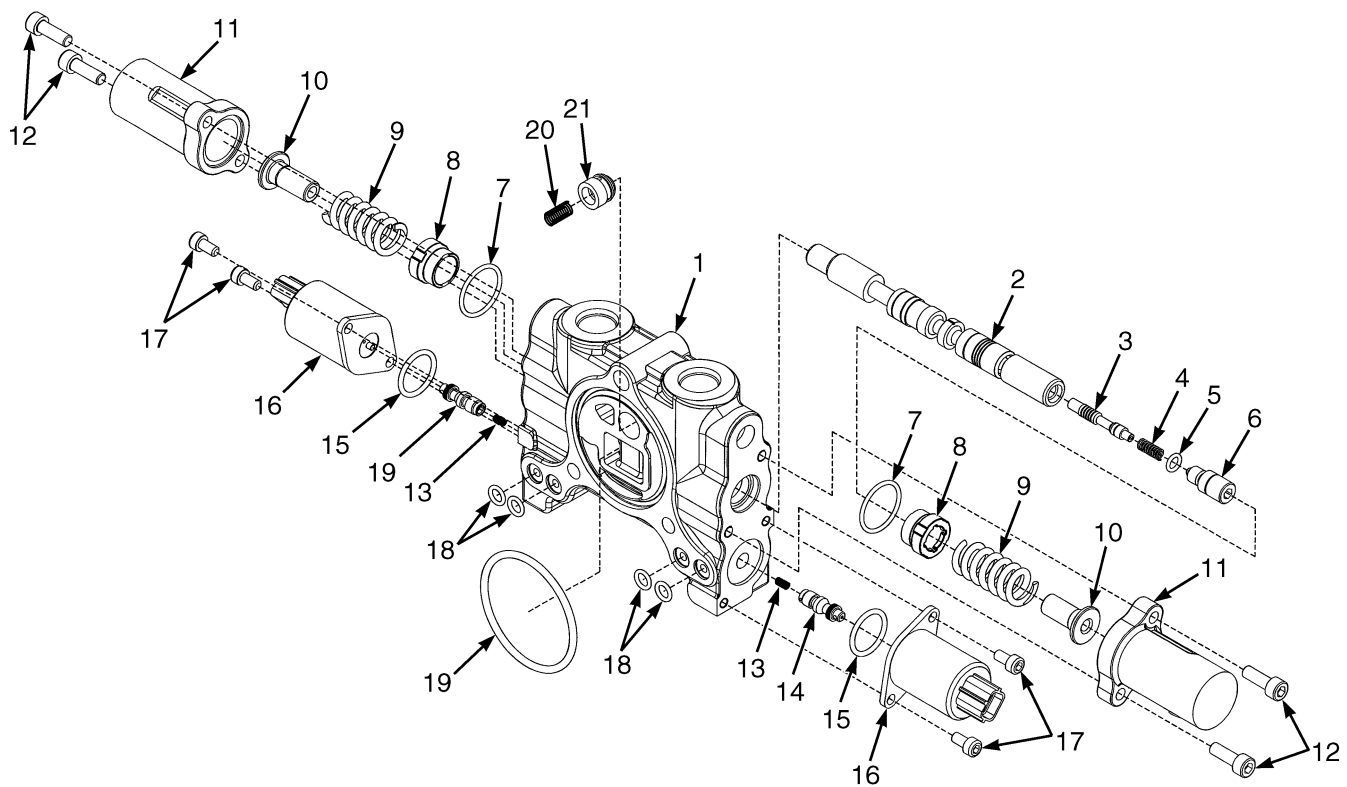


BP140270

**HYDRAULIC CONTROL VALVE
LIFT SECTION – E-HYDRAULIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4173043	Housing Lift Section	1
2	4154659	Valve-Poppet	1
3	2055001	Spring	1
4	4172990	Spring	2
5	4172991	Spool	2
6	4154722	O-Ring	2
7	4172992	Solenoid	2
8	2096435	Bolt	4
9		O-Ring	2
10	4172962	Spring Seat	2
11	4154718	Spring	2
12	4154716	Spring Seat	2
13	4172961	Cap	2
14	2055004	Capscrew	4
15	4154658	Shutoff Valve	1
16	4154660	Bolt	1
17	342703	Plug	1
18	16484	O-Ring	1
19	2087828	Plug	1
20	1328829	O-Ring	1
21	2087844	Spring	1
22	4154657	Valve-Poppet	1
23	4172963	Spool	1
24		Valve	1
25	2096453	Spring	1
26		Spool	1

HYDRAULIC CONTROL VALVE (FIGURE 10-16) TILT SECTION — E-HYDRAULIC CONTROLS

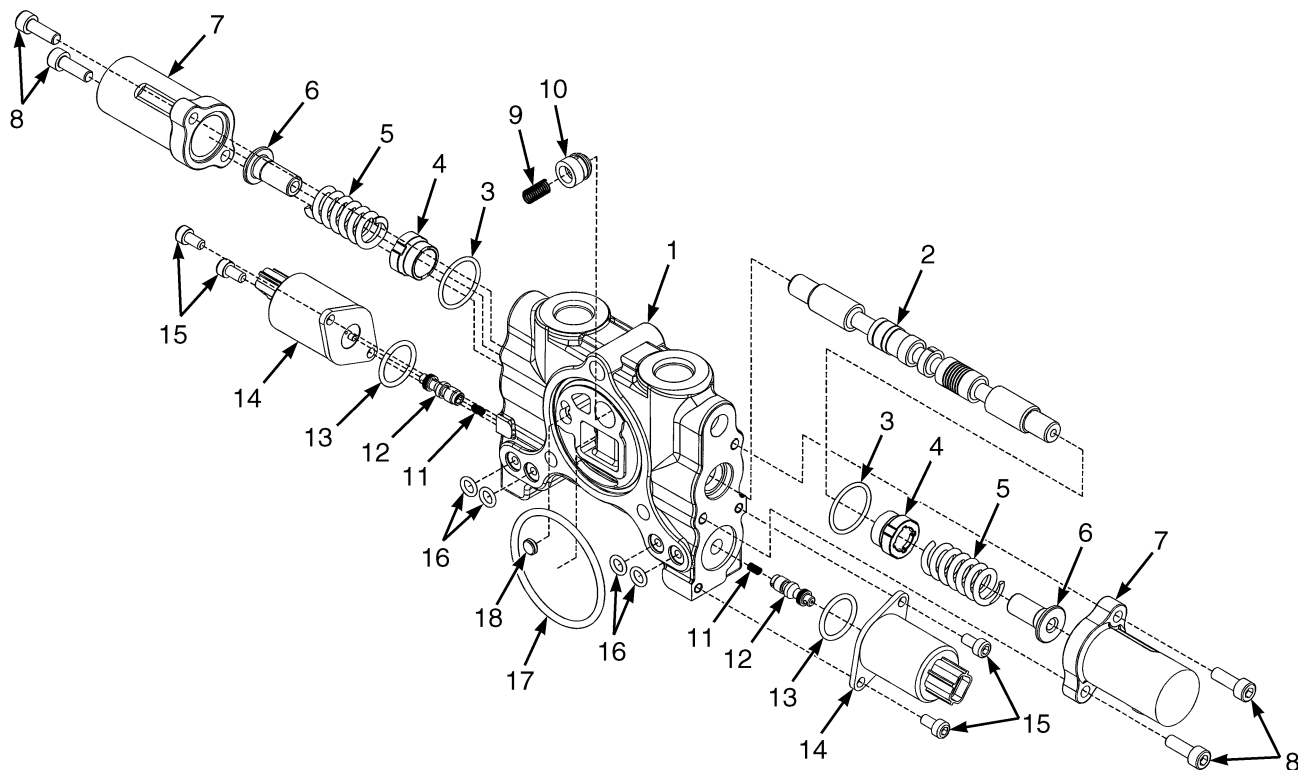


BP140271

**HYDRAULIC CONTROL VALVE
TILT SECTION – E-HYDRAULIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4173044	Housing Tilt Section	1
2		Spool	1
3		Valve	1
4	4172996	Spring	1
5	4614507	O-Ring	1
6	4172995	Spool	1
7	2096443	O-Ring	2
8	4172962	Spring Seat	2
9	4154718	Spring	2
10	4154716	Spring Seat	2
11	4172993	Cap	2
12	2055004	Capscrew	4
13	4172990	Spring	2
14	4172991	Spool	2
15	4154722	O-Ring	2
16	4172992	Solenoid	2
17	2096435	Bolt	4
18	4154728	O-Ring	4
19	2055002	O-Ring	1
20	2055001	Spring	1
21	4154659	Valve-Poppet	1
	4652803	Kit-Seal (Includes Items 18-19)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-17) AUXILIARY SECTION — E-HYDRAULIC CONTROLS

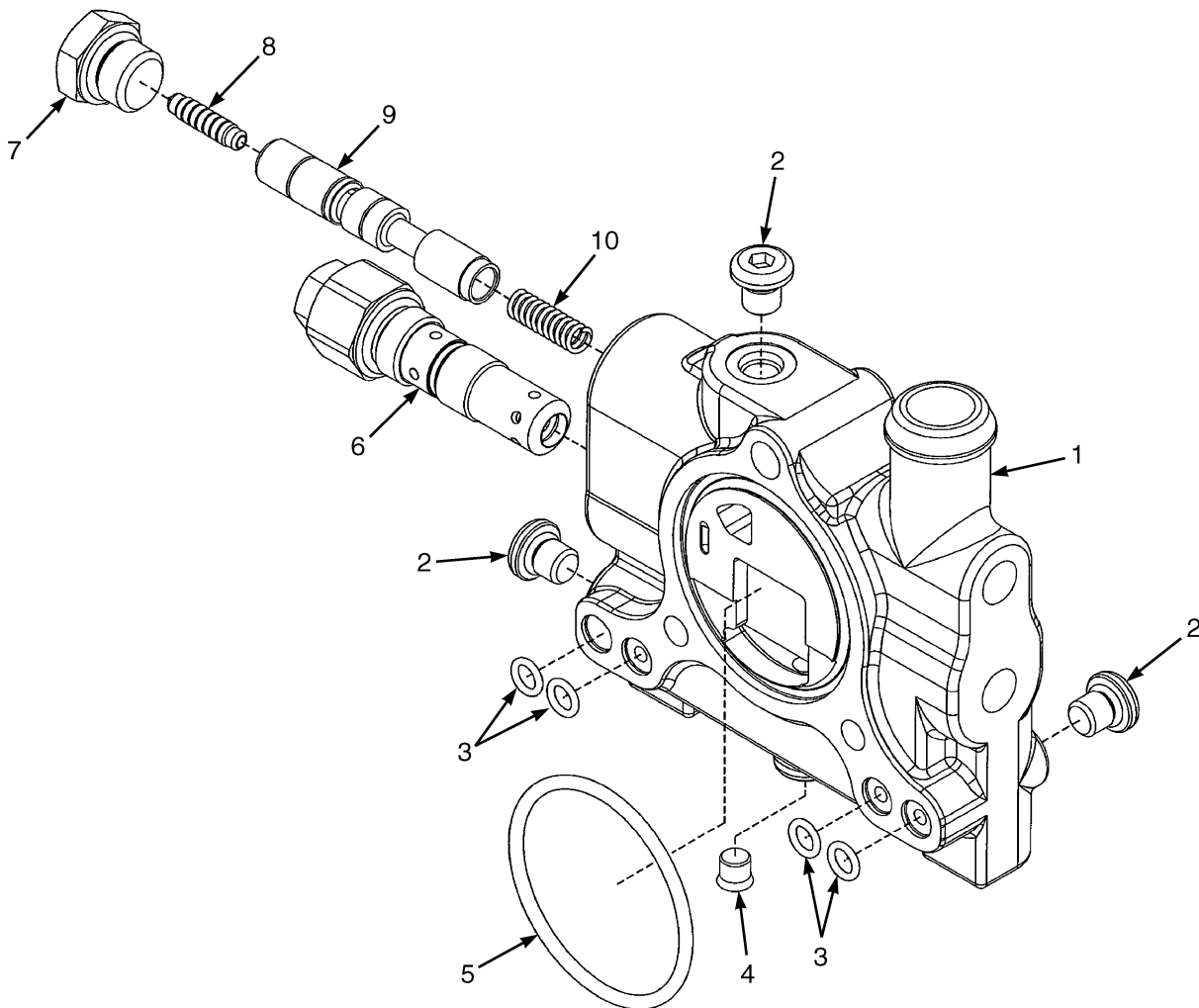


BP140272

HYDRAULIC CONTROL VALVE AUXILIARY SECTION – E-HYDRAULIC CONTROLS

ITEM	PART NO.	DESCRIPTION	QTY
1	4173045	Housing Auxiliary Section	1
2		Spool	1
3		O-Ring	2
4	4172962	Spring Seat	2
5	4154718	Spring	2
6	4154716	Spring Seat	2
7	4172961	Cap	2
8	2055004	Capscrew	4
9	2055001	Spring	1
10	4154659	Valve-Poppet	1
11	4172990	Spring	2
12	4172991	Spool	2
13	4154722	O-Ring	2
14	4172992	Solenoid	2
15	2096435	Bolt	4
16	4154728	O-Ring	4
17	2055002	O-Ring	1
18		Plate	1
	4652803	Kit-Seal (Includes Items 16-17)	1

HYDRAULIC CONTROL VALVE (FIGURE 10-18) OUTLET SECTION — E-HYDRAULIC CONTROLS

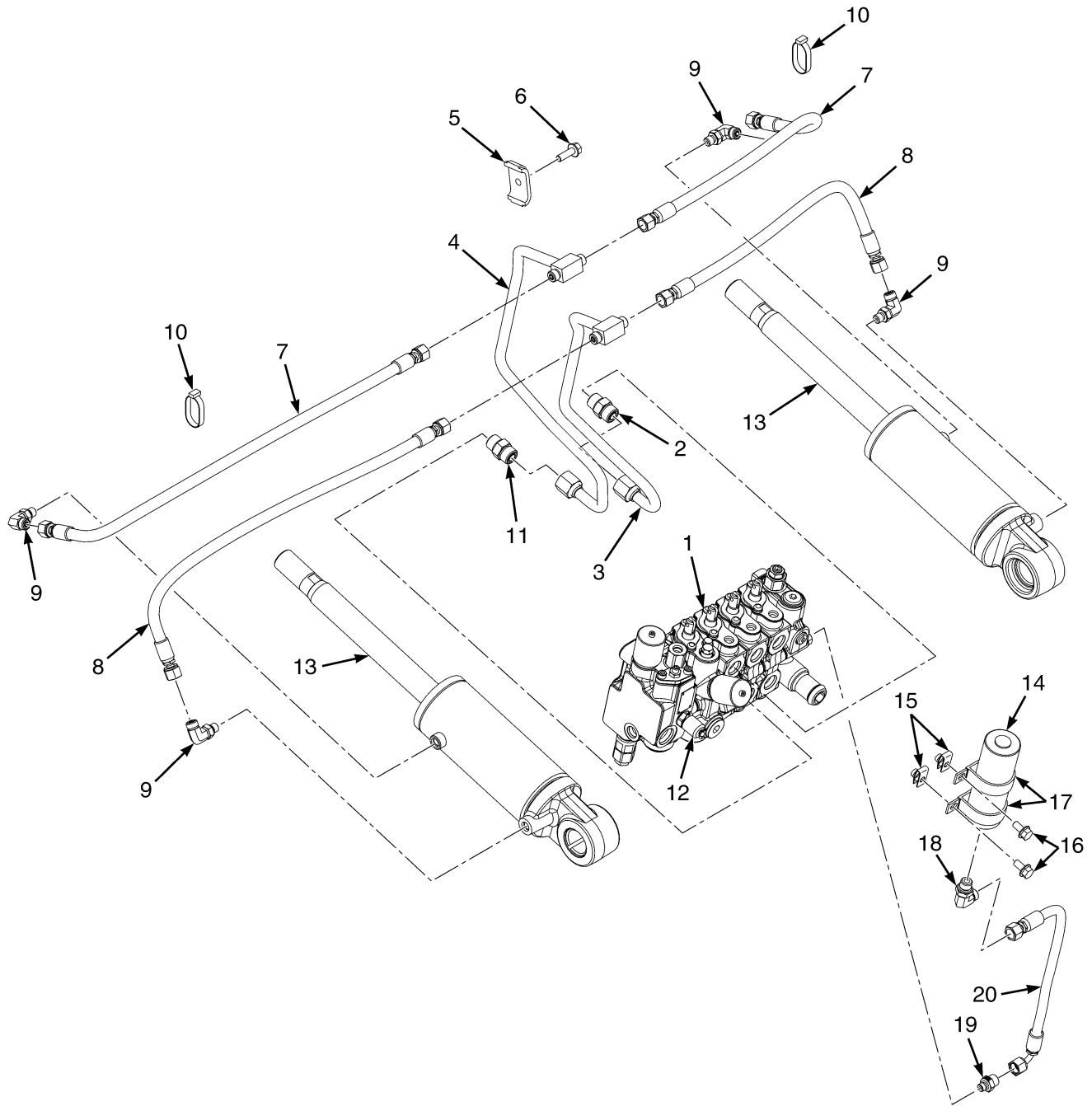


BP140273

**HYDRAULIC CONTROL VALVE
OUTLET SECTION – E-HYDRAULIC CONTROLS**

ITEM	PART NO.	DESCRIPTION	QTY
1	4173046	Housing Outlet Section	1
2	4172960	Plug	3
3	4154728	O-Ring	4
4		Plug	1
5	2055002	O-Ring	1
6	4168171	Kit-Relief Valve	1
7	4172997	Plug	1
8		Piston	1
9		Spool	1
10	4154663	Spring	1
	4652803	Kit-Seal (Includes Items 5)	1

TILT HYDRAULICS AND ACCUMULATOR (FIGURE 10-19)



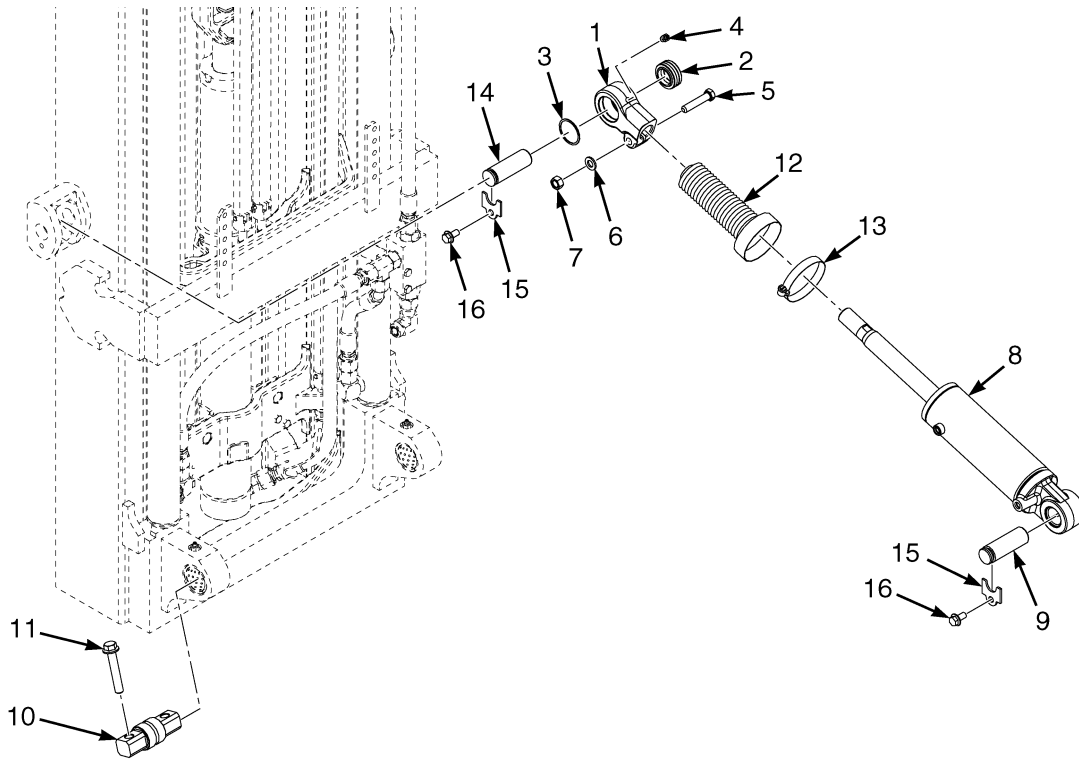
BP150825

TILT HYDRAULICS AND ACCUMULATOR**KEY:****A: Manual Hydraulics****B: E-Hydraulics**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1		Hydraulic Control Valve (☞Figure 10-7, ☞Figure 10-13).....	1	1
2	1473887	Fitting	1	1
3	4652947	Tube Assy	1	..
3	4652913	Tube Assy	..	1
4	4652912	Tube Assy	1	..
4	4652914	Tube Assy	..	1
5	2021896	Hose Clamp	1	1
6	1510113	Capscrew	1	1
7	4650440			
	4654501	Hose Assy	2	2
8	4650405			
	4654500	Hose Assy	2	2
9	1487058	Fitting	4	4
10	129563	Strap Clamp	2	2
11	4159138	Fitting	1	1
12	2061646	Fitting (Diagnostic)	1	1
13		Tilt Cylinders (☞Figure 10-20).....	1	1
14	4609405	Accumulator	..	1
15	1480237	Nut , Foldover	..	2
16	4109993			
	1527879	Capscrew	..	2
17	181899	Clamp	..	2
18	1487059	Fitting	..	1
19	4157723	Fitting	..	1
20	4651845	Hose Assy	..	1
	a 1545546	Fitting	..	1

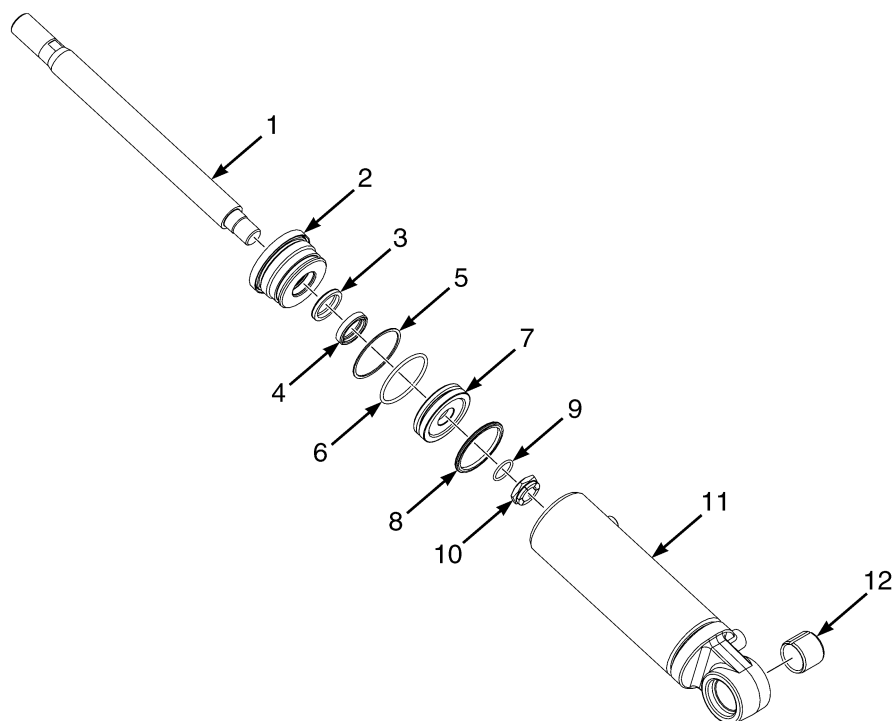
FOOTNOTES:**a** Not Illustrated

TILT CYLINDER AND MAST INSTALLATION (FIGURE 10-20)



BP230019

ITEM	PART NO.	DESCRIPTION	QTY
1	4124990	Rod End	2
2	356035	Bushing	1
3	4125004	Snap Ring	1
4	16001	Grease Fitting	1
5	1597381	Capscrew	2
6	1581852	Washer	2
7	1581848	Nut	2
8		Tilt Cylinder (☞ Figure 10-21).....	2
9	4118530	Pin	2
10	4118529	Pin	2
11	4152751	Capscrew	4
12	2087502	Boot	2
13	115696	Hose Clamp	2
14	4124995	Pin	2
15	2029626	Plate	4
16	1527883	Capscrew	4

TILT CYLINDERS (FIGURE 10-21)

BP230020

ITEM	PART NO.	DESCRIPTION	QTY
	b 4638321	Tilt Cylinder-Mast	2
	c 4638319	Tilt Cylinder-Mast	2
	a 4638320	Tilt Cylinder-Mast	2
1	b 4639347	Cylinder Rod	1
1	a c 4639346	Cylinder Rod	1
2	1338744	Gland	1
3	1383062	Rod Wiper	1
4	1381082	Rod Seal	1
5	154375	Back-Up Ring	1
6	46388	O-Ring	1
7	1338741	Piston	1
8	2044370	Piston Seal	1
9	39374	O-Ring	1
10	2302899	Locknut	1
11	a b 4639345	Tube Wldmt-Cylinder	1
11	c 4639344	Tube Wldmt-Cylinder	1
12	4118635	Bushing	1
	1492644	Kit-Seal (Service Option)	1

FOOTNOTES:

a 10° Forward/6° Back
b 6° Forward/10° Back

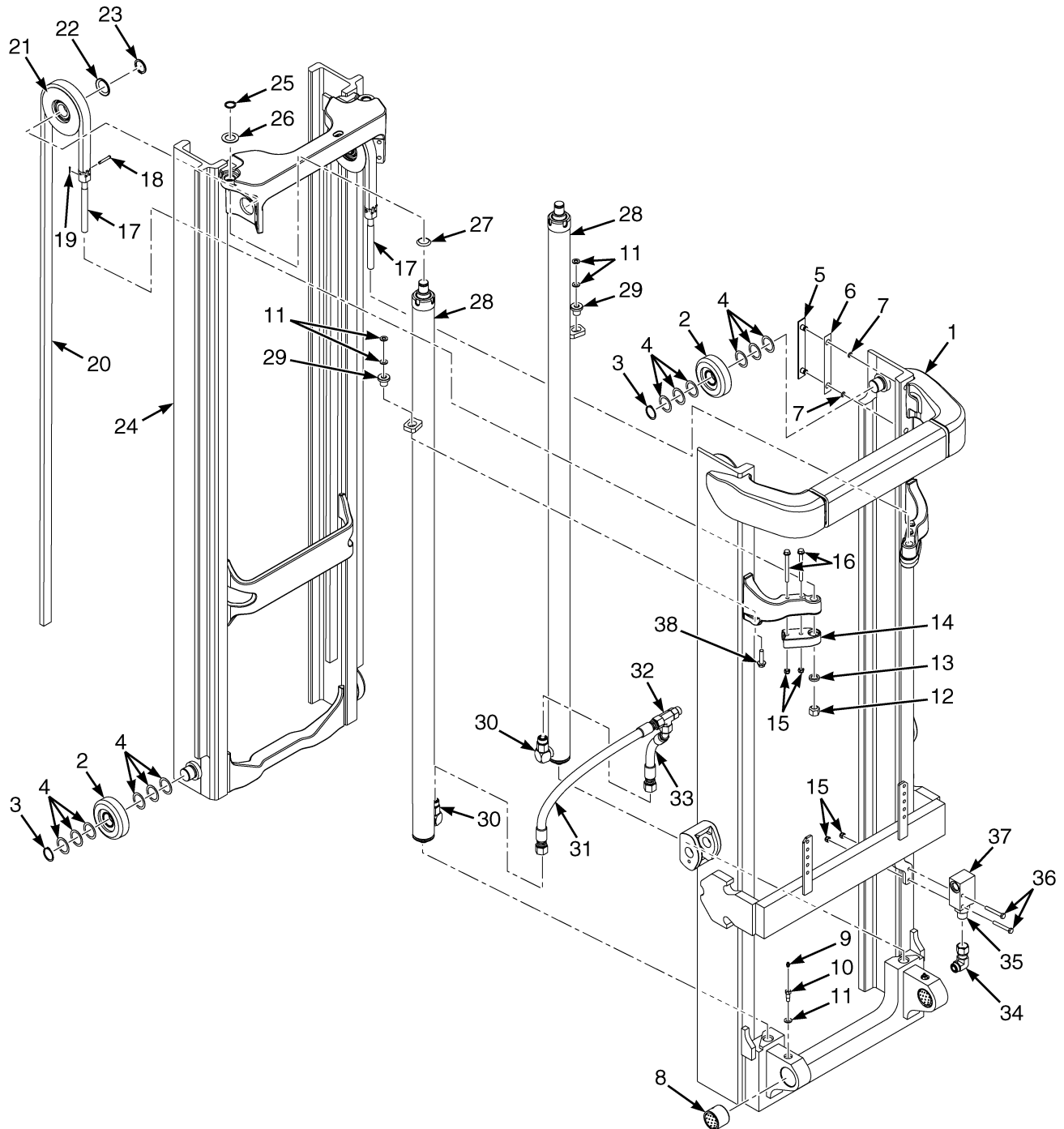
c 6° Forward/6° Back

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SECTION 11
MAST-TWO STAGE LIMITED FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
TWO STAGE LIMITED FREE-LIFT	11-18
HEADER HOSES AND ATTACHING PARTS	11-14
MAIN LIFT CYLINDER	
TWO STAGE LIMITED FREE LIFT - A389	11-6
TWO STAGE LIMITED FREE LIFT - A399	11-12
MAST ASSEMBLY	
A389	11-2
A399	11-8

MAST ASSEMBLY (FIGURE 11-1) A389



BP170802

MAST ASSEMBLY**A389****H40-50XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3252 mm (128.0 in.)	3752 mm (147.7 in.)	4292 mm (169.0 in.)
	Mast Group Number	A389 3252	A389 3752	A389 4292
	Mast Assy	4640625	4640630	4640635
1	Outer Mast	4107510	4107515	4107521
20	Chain	129361	180176	197327
24	Inner Mast	4054062	4054067	4054072
28	Lift Cylinder	4625308	4625313	4625318

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	4
2	1395168	Load Roller ("A") (111.10/110.84) (Optional)	4
2	1333397	Load Roller ("C") (112.62/112.36) (Optional)	4
3	58901	Snap Ring	4
3	1374797	Snap Ring (Optional)	4
4	129387	Shim (0.020 in.)	24
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	131715	Shim (0.007 in.) (Optional)	2
7	104506	O-Ring	4
8	4033414	Bushing	2
9	13957	Grease Fitting	2
9	16041	Grease Fitting (Optional)	2
10	4033412	Capscrew	2
11	1581557	Washer	6
12	4031973	Nut	2
13	297649	Ring	2
14	4051079	Restraint	2
15	1581566	Nut	6
16	4082846	Capscrew	4
17	4072717	Chain Anchor	2
18	1514866	Pin	2
19	15211	Cotter Pin	2
20	a	Chain	2
21	4054944	Chain Sheave Assembly	2
21	1378699	Ball Bearing	1
21	37752	Snap Ring	1
22	335661	Spacer	2
23	304526	Snap Ring	2
24	a	Inner Mast	1
25	131358	Snap Ring	2
26	1333382	Washer (0.060 in.)	2

MAST ASSEMBLY
A389

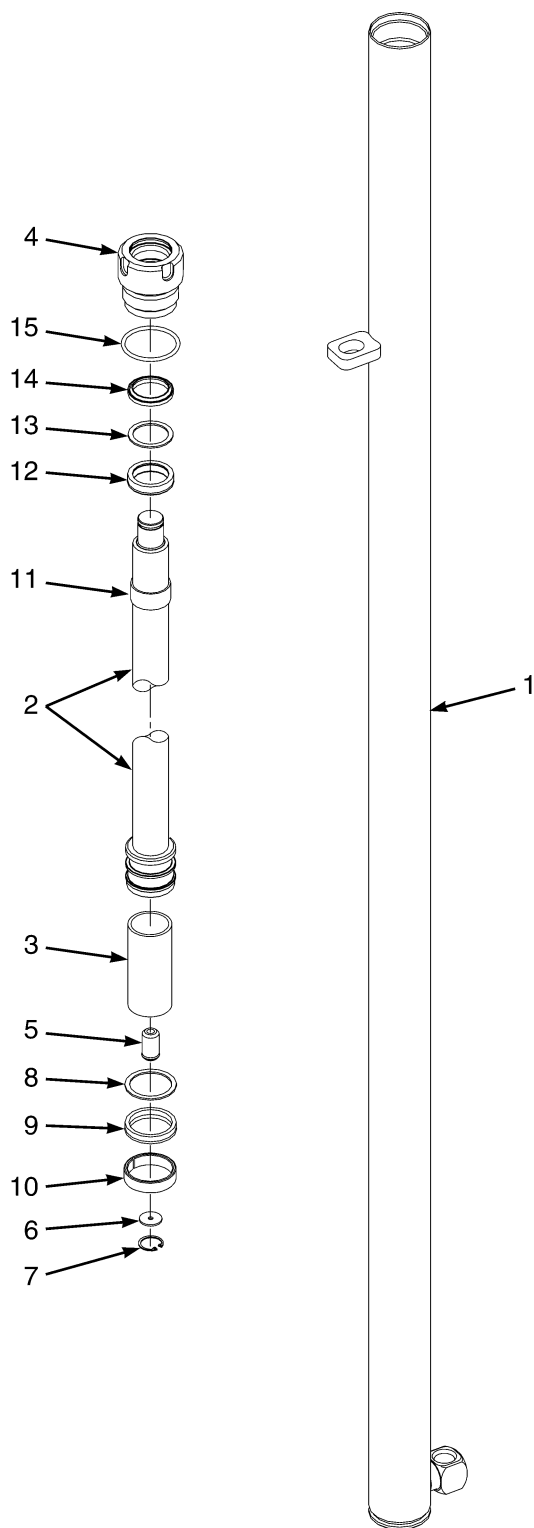
ITEM	PART NO.	DESCRIPTION	QTY
27	1354915	Washer (0.010 in.)	2
27	1354916	Washer (0.030 in.)	2
27	1354917	Washer (0.060 in.)	2
28	a	Lift Cylinder (☞ Figure 11-4).....	2
29	4054558	Isolator	2
30	2062686	Hyd Velocity Fuse	2
31	4620151	Hose Assy	1
32	1592853	Fitting	1
33	4620152	Hose Assy	1
34	1486773	Fitting	1
35	2062651	Lowering Control Valve	1
36	1581836	Capscrew	2
37	4058916	Housing (Lowering Control)	1
38	4029051	Capscrew	2

FOOTNOTES:**a** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 11-2) TWO STAGE LIMITED FREE LIFT — A389



BP170645

**MAIN LIFT CYLINDER
TWO STAGE LIMITED FREE LIFT – A389****H40-50XT**

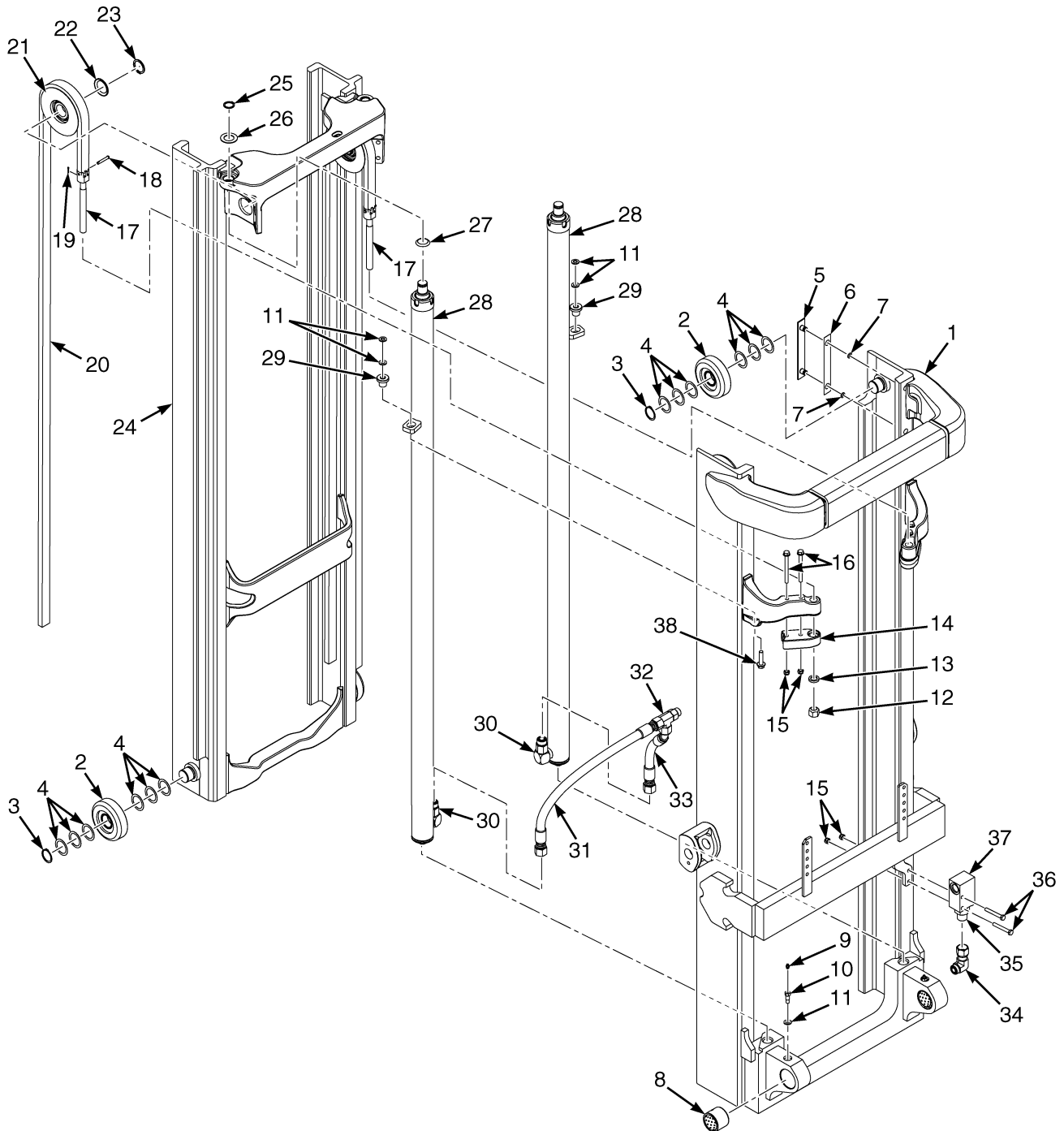
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3252 mm (128.0 in.)	3752 mm (147.7 in.)	4292 mm (169.0 in.)
	Mast Group Number	A389 3252	A389 3752	A389 4292
	Cylinder Group Number	8607406	8607411	8607416
	Lift Cylinder	4625308	4625313	4625318
1	Tube Wldmt- Cylinder	4064606	4064611	4064616
2	Cylinder Rod	1355158	1355178	1355199
3	Spacer	----	----	2045872

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	a	Tube Wldmt-Cylinder	1
2	a	Cylinder Rod	1
3	a	Spacer	1
4	4615847	Gland	1
5	257913	Check Valve	1
6	297531	Washer	1
6	637635	Washer (Optional)	1
7	187388	Snap Ring	1
8	638246	Back-Up Ring	1
9	1381064	Piston Seal	1
10	1356750	Wear Ring	1
11	322902	Wear Ring	1
12	1356749	Rod Seal	1
13	322824	Back-Up Ring	1
14	1383063	Rod Wiper	1
15	4028986		
	92861	O-Ring	1
	4623973	Kit-Seal (Includes Items 8-15)	1

FOOTNOTES:

a Refer to Table

MAST ASSEMBLY (FIGURE 11-3)
A399



BP170802

MAST ASSEMBLY**A399****H60XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3559 mm (140.1 in.)	4559 mm (179.5 in.)
	Mast Group Number	A399 3559	A399 4559
	Mast Assy	4640666	4640676
1	Outer Mast	4107515	4107526
20	Chain	1342387	1342394
24	Inner Mast	4054067	4054076
28	Lift Cylinder	4625344	4625354

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	4
2	1395168	Load Roller ("A") (111.10/110.84) (Optional)	4
2	1333397	Load Roller ("C") (112.62/112.36) (Optional)	4
3	58901	Snap Ring	4
3	1374797	Snap Ring (Optional)	4
4	129387	Shim (0.020 in.)	24
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	131715	Shim (0.007 in.) (Optional)	2
7	104506	O-Ring	4
8	4033414	Bushing	2
9	13957	Grease Fitting	2
9	16041	Grease Fitting (Optional)	2
10	4033412	Capscrew	2
11	1581557	Washer	6
12	4031973	Nut	2
13	297649	Ring	2
14	4051079	Restraint	2
15	1581566	Nut	6
16	4082846	Capscrew	4
17	4072704	Chain Anchor	2
18	1514866	Pin	2
19	15211	Cotter Pin	2
20	a	Chain	2
21	4048508	Chain Sheave Assembly	2
21	1378699	Ball Bearing	1
21	37752	Snap Ring	1
22	335661	Spacer	2
23	304526	Snap Ring	2
24	a	Inner Mast	1
25	131358	Snap Ring	2
26	1333382	Washer (0.060 in.)	2

MAST ASSEMBLY
A399

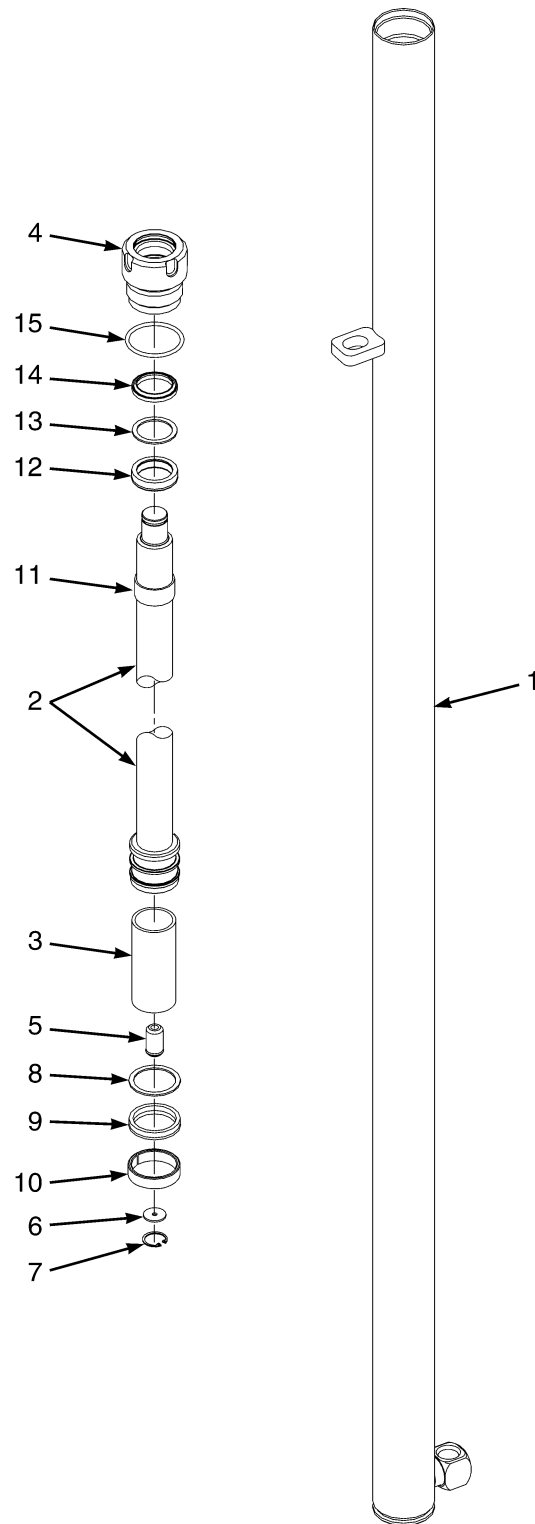
ITEM	PART NO.	DESCRIPTION	QTY
27	1354915	Washer (0.010 in.)	2
27	1354916	Washer (0.030 in.)	2
27	1354917	Washer (0.060 in.)	2
28	a	Lift Cylinder	2
29	4054558	Isolator	2
30	2062687	Hyd Velocity Fuse	2
31	4620151	Hose Assy	1
32	1592853	Fitting	1
33	4620152	Hose Assy	1
34	1486773	Fitting	1
35	2062652	Lowering Control Valve	1
36	1581836	Capscrew	2
37	4058916	Housing (Lowering Control)	1
38	4029051	Capscrew	2

FOOTNOTES:**a** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 11-4) TWO STAGE LIMITED FREE LIFT — A399



BP170645

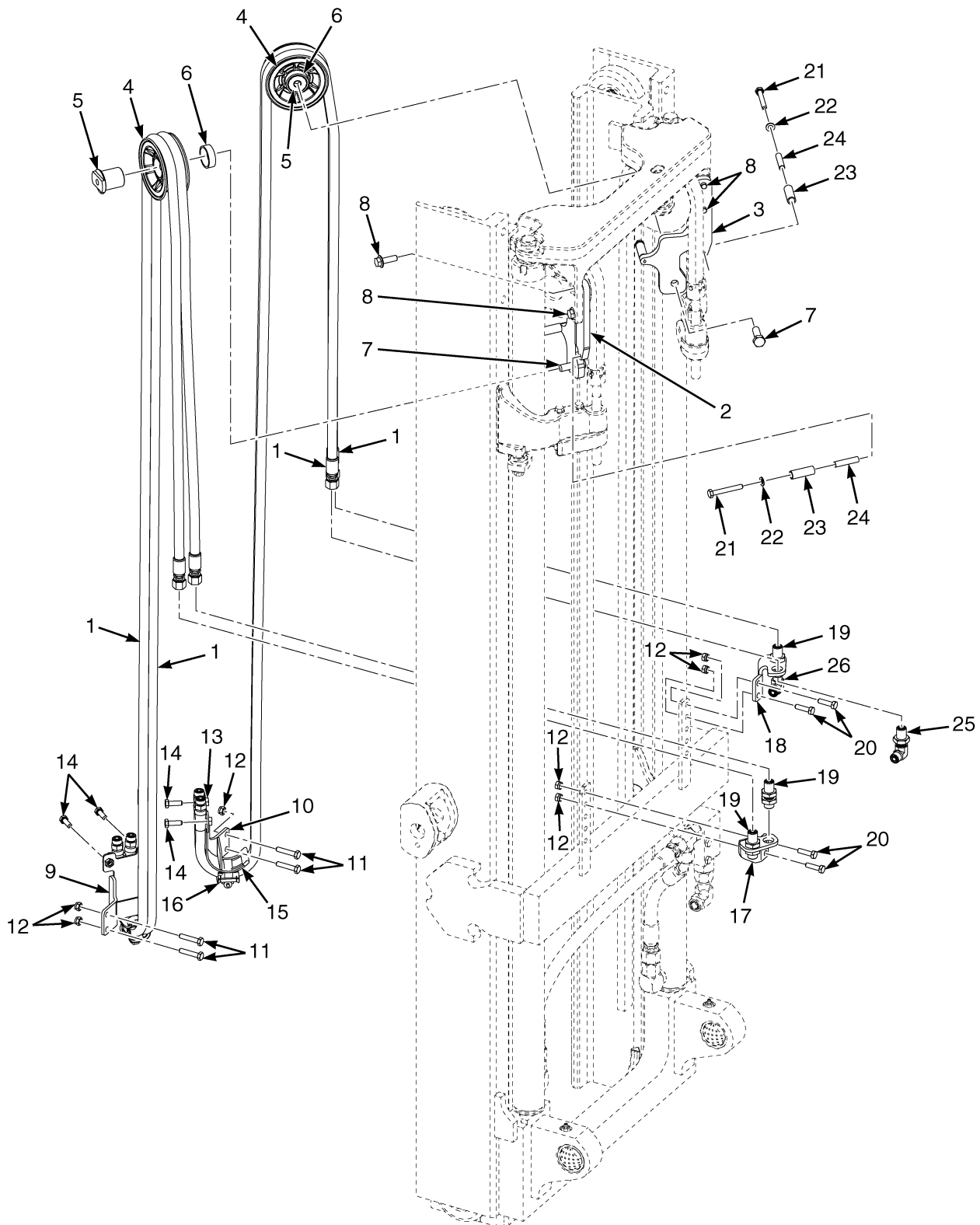
**MAIN LIFT CYLINDER
TWO STAGE LIMITED FREE LIFT – A399****H60XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3559 mm (140.1 in.)	4559 mm (179.5 in.)
	Mast Group Number	A399 3559	A399 4559
	Cylinder Group Number	8607510	8607557
	Lift Cylinder	4625344	4625354
1	Tube Wldmt- Cylinder	----	4064650
2	Cylinder Rod	1355391	1355434
3	Spacer	1355711	2088124

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	a	Tube Wldmt-Cylinder	1
2	a	Cylinder Rod	1
3	a	Spacer	1
4	4615848	Gland	1
5	257913	Check Valve	1
6	297531	Washer	1
6	637635	Washer (Optional)	1
7	187388	Snap Ring	1
8	335012	Back-Up Ring	1
9	1381063	Piston Seal	1
10	1356751	Wear Ring	1
11	322902	Wear Ring	1
12	1356749	Rod Seal	1
13	322824	Back-Up Ring	1
14	1383063	Rod Wiper	1
15	59229	O-Ring	1
	4623974	Kit-Seal (Includes Items 9, 11-14)	1

FOOTNOTES:**a** Refer to Table

HEADER HOSES AND ATTACHING PARTS (FIGURE 11-5)



BP170803

HEADER HOSES AND ATTACHING PARTS**H40-50XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3252 mm (128.0 in.)	3752 mm (147.7 in.)	4292 mm (169.0 in.)
	Mast Group Number	A389 3252	A389 3752	A389 4292
1	Header Hose	4636859	4636864	4636869

H60XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS	
		3559 mm (140.1 in.)	4559 mm (179.5 in.)
	Mast Group Number	A399 3559	A399 4559
1	Header Hose	4636864	4636874

KEY:**A: 3 Function****B: 4 Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	b	Header Hose	2	4
2	4132420	Bracket	1	1
3	4132421	Bracket	..	1
4	4048781	Hose Sheave	1	2
4	4050091	Bushing	1	1
5	4013268	Stubshaft	1	2
6	4051293	Spacer	1	2
7	1581591	Capscrew	1	2
8	4051501	Capscrew	2	4
9	4058930	Bracket Wldmt	1	1
10	4058935	Bracket Wldmt	..	1
11	1581582	Capscrew	2	4
12	1581566	Nut	4	8
13	4059830	Clamp	1	2
14	1581581	Capscrew	2	4
15	369804	Clamp	1	2
16	1477996	Hose Clamp	1	2
17	4122876	Bracket	1	1
18	4122875	Bracket	..	1
19	1528573	Fitting	2	3
20	1696161	Capscrew	2	4
21	1581836	Capscrew	2	4
22	1581556	Washer	2	4
23	4138115	Roller	2	4
24	4138114	Roller	2	4
25	1528579	Fitting	..	1
26	1473895	Fitting	..	1

HEADER HOSES AND ATTACHING PARTS**KEY:****A: 3 Function****B: 4 Function**

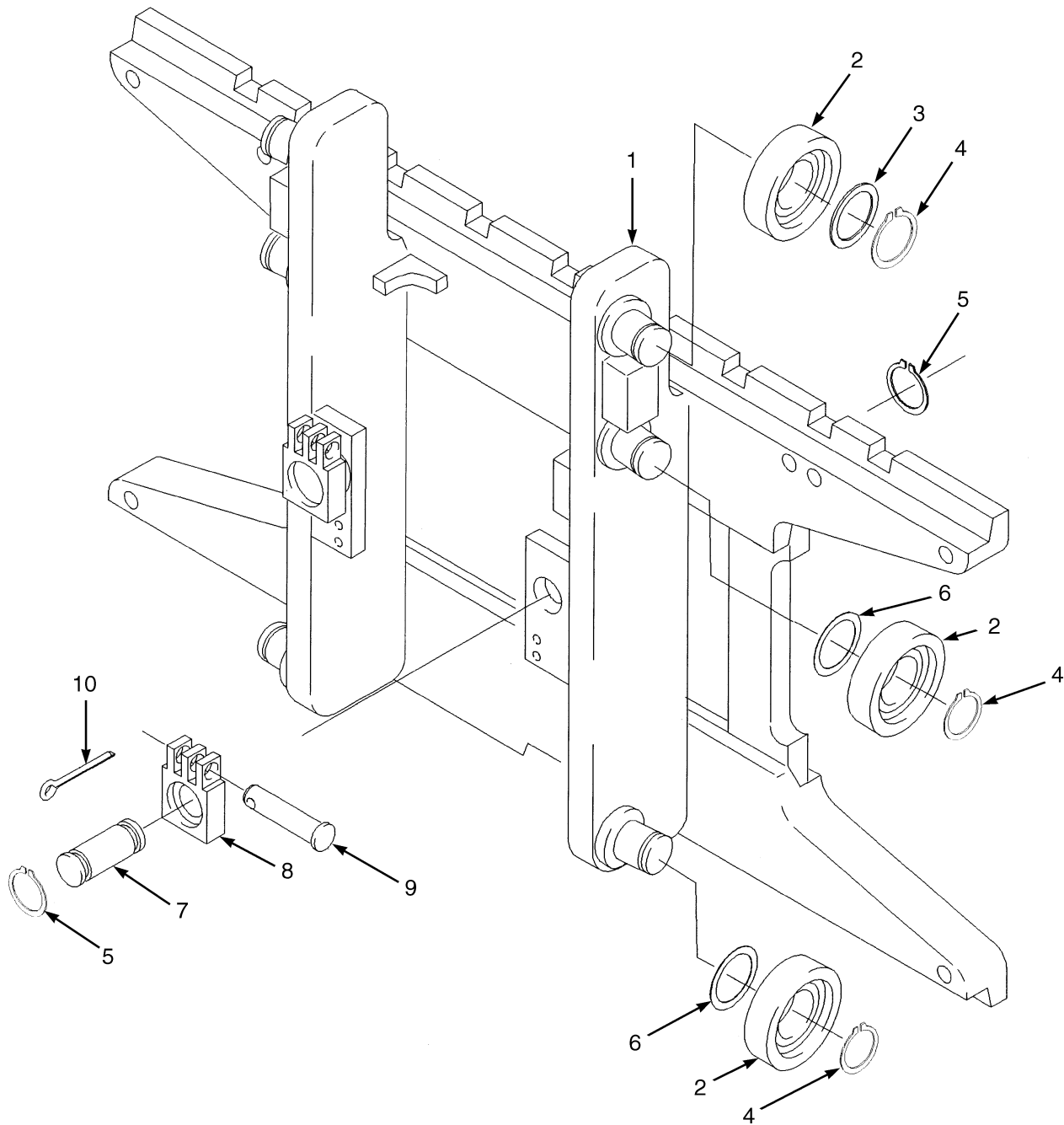
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 1529015	Cap (Without auxiliary hoses)	2	4

FOOTNOTES:**a** Not Illustrated**b** Refer to Table

NOTES

[illegible]

CARRIAGE (FIGURE 11-6) TWO STAGE LIMITED FREE-LIFT



HP290013

CARRIAGE
TWO STAGE LIMITED FREE-LIFT**KEY:****A: H40-50XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4625586	Carriage (42 in.)	1	..
	4625594	Carriage (42 in.)	..	1
1	4065173	Carriage Wldmt (42 in.)	1	..
1	4065200	Carriage Wldmt (42 in.)	..	1
1	1345264	Stubshaft	6	6
2	1345219	Load Roller ("B") (111.48/111.22)	6	6
3	366116	Spacer	2	2
4	12891	Snap Ring	6	6
4	386422	Snap Ring (Optional)	6	6
5	131358	Snap Ring	4	4
6	1345263	Shim (0.020 in.)	28	28
7	1353408	Pin	2	2
8	1369345	Chain Anchor (Dual Hole)	2	..
8	1504010	Chain Anchor (Single Hole) (Optional)	2	..
8	1369344	Chain Anchor (Dual Hole)	..	2
8	1504012	Chain Anchor (Single Hole) (Optional)	..	2
9	1514866	Pin	2	2
10	15211	Cotter Pin	2	2

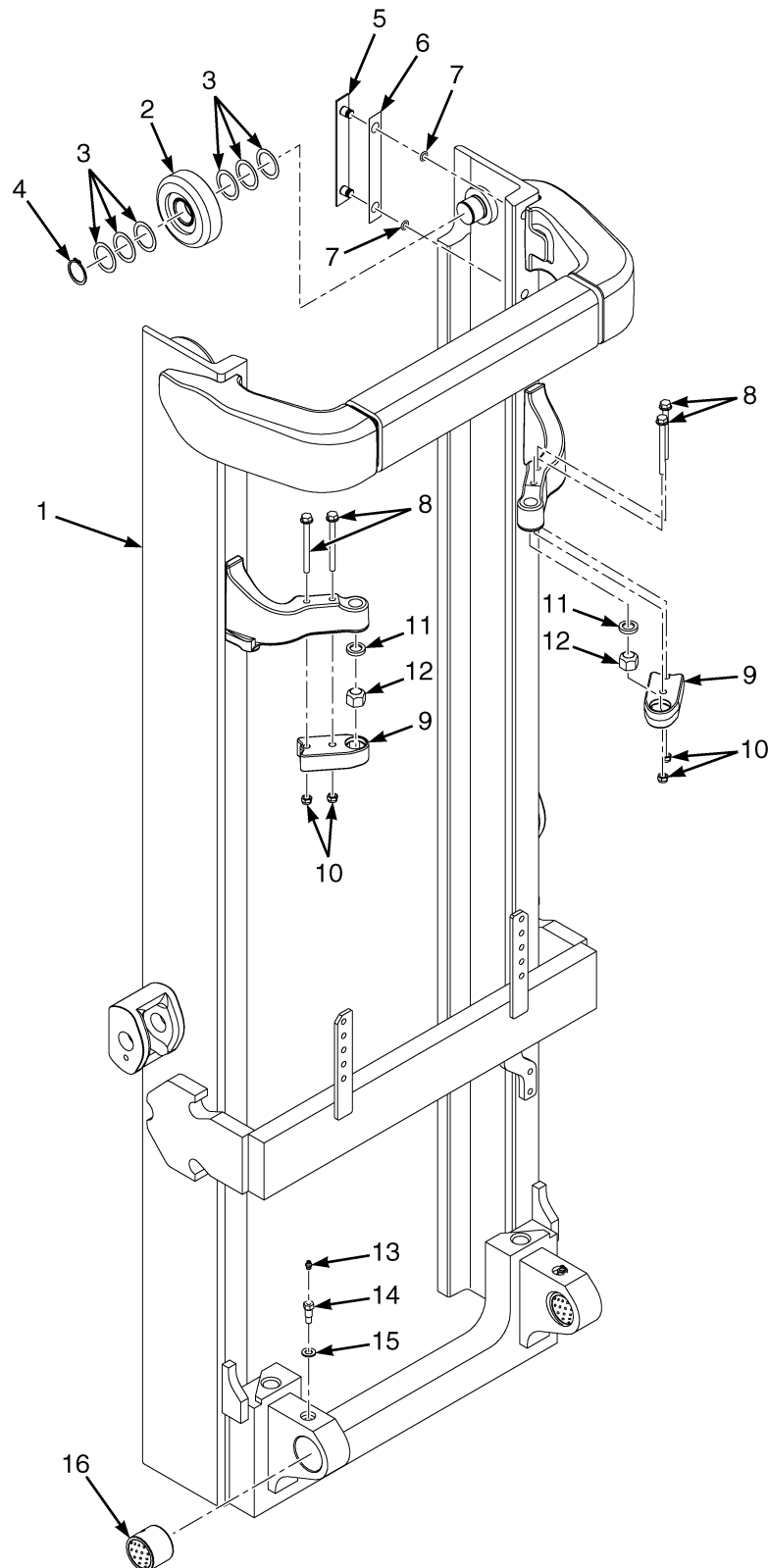
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SECTION 12

MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-34
FREE-LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT - A387 MAST SERIES	12-14
THREE STAGE FULL FREE-LIFT - A397 MAST SERIES	12-28
HEADER HOSE AND ATTACHING PARTS	12-30
MAIN LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT - A387 MAST SERIES	12-12
THREE STAGE FULL FREE-LIFT - A397 MAST SERIES	12-26
MAST ASSEMBLY	
INNER MAST AND FREE-LIFT - A387 MAST SERIES	12-8
INNER MAST AND FREE-LIFT - A397 MAST SERIES	12-22
INTERMEDIATE MAST AND MAIN-LIFT - A387 MAST SERIES	12-4
INTERMEDIATE MAST AND MAIN-LIFT - A397 MAST SERIES	12-18
OUTER MAST - A387 MAST SERIES	12-2
OUTER MAST - A397 MAST SERIES	12-16

MAST ASSEMBLY (FIGURE 12-1) OUTER MAST — A387 MAST SERIES



BP170799

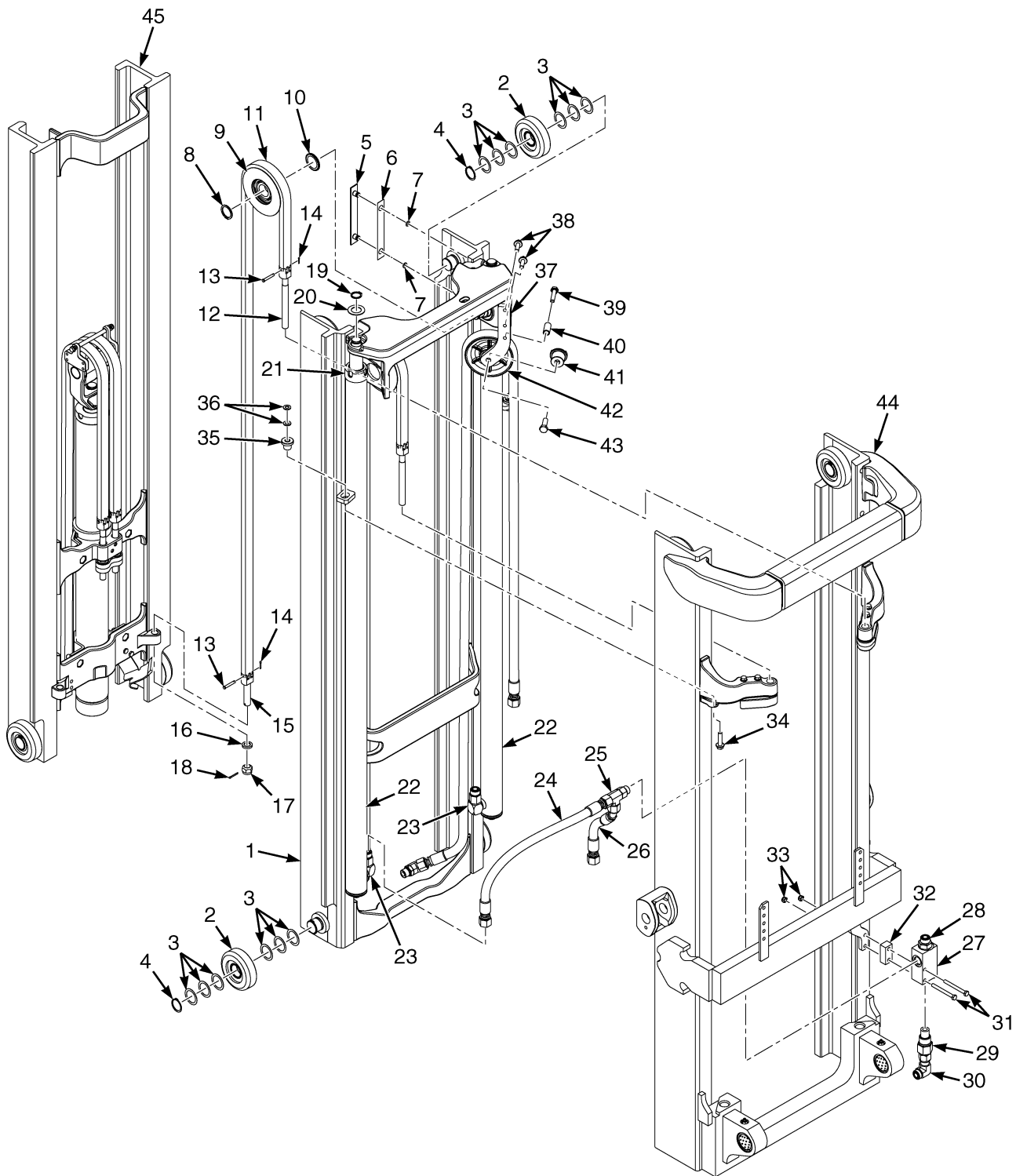
MAST ASSEMBLY
OUTER MAST – A387 MAST SERIES**H40-50XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
	Mast Assy	4640879	4640882	4640887	4640891
1	Outer Mast	4107507	4107509	4107515	4107518

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	a	Outer Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	2
2	1395168	Load Roller ("A") (111.10/110.84)	2
2	1333397	Load Roller ("C") (112.62/112.36)	2
3	129387	Shim (0.020 in.)	12
4	58901	Snap Ring	2
4	1374797	Snap Ring (Optional)	2
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	131715	Shim (0.007 in.) (Optional)	2
7	104506	O-Ring	4
8	4082846	Capscrew	4
9	4051079	Restraint	2
10	1581566	Nut	4
11	297649	Ring	2
12	4031973	Nut	2
13	13957	Grease Fitting	2
13	16041	Grease Fitting (Optional)	2
14	4033412	Capscrew	2
15	1581557	Washer	2
16	4033414	Bushing	2

FOOTNOTES:**a** Refer to Table

MAST ASSEMBLY (FIGURE 12-2) INTERMEDIATE MAST AND MAIN-LIFT — A387 MAST SERIES



BP170800

MAST ASSEMBLY
INTERMEDIATE MAST AND MAIN-LIFT – A387 MAST SERIES
H40-50XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
	Mast Assy	4640879	4640882	4640887	4640891
1	Intermediate Mast	4053806	4053808	4053813	4053816
11	Chain	88441	180137	180176	1342079

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Intermediate Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	4
2	a 1395168	Load Roller ("A") (111.10/110.84)	4
2	a 1333397	Load Roller ("C") (112.62/112.36)	4
3	129387	Shim (0.020 in.)	24
4	58901	Snap Ring	2
4	a 1374797	Snap Ring	2
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	a 131715	Shim (0.007 in.)	2
7	104506	O-Ring	4
8	304526	Snap Ring	2
9	4054944	Chain Sheave Assembly	2
9	1378699	Ball Bearing	1
9	37752	Snap Ring	1
10	335661	Spacer	2
11	b	Chain	2
12	4188920	Chain Anchor	2
13	1514866	Pin	2
14	15211	Cotter Pin	4
15	1365140	Chain Anchor	2
16	297649	Ring	2
17	161003	Nut	2
18	15223	Cotter Pin	2
19	131358	Snap Ring	2
20	1333382	Washer (0.060 in.)	2
21	1354915	Washer (0.010 in.)	2
21	a 1354916	Washer (0.030 in.)	2
21	a 1354917	Washer (0.060 in.)	2
22		Main Lift Cylinder (☞ Figure 12-4)	2
23	2062686	Hyd Velocity Fuse	2
24	4620151	Hose Assy	1
25	1592853	Fitting	1
26	4620152	Hose Assy	1
27	4055582	Housing	1
28	1486751	Fitting	1

MAST ASSEMBLY

INTERMEDIATE MAST AND MAIN-LIFT – A387 MAST SERIES

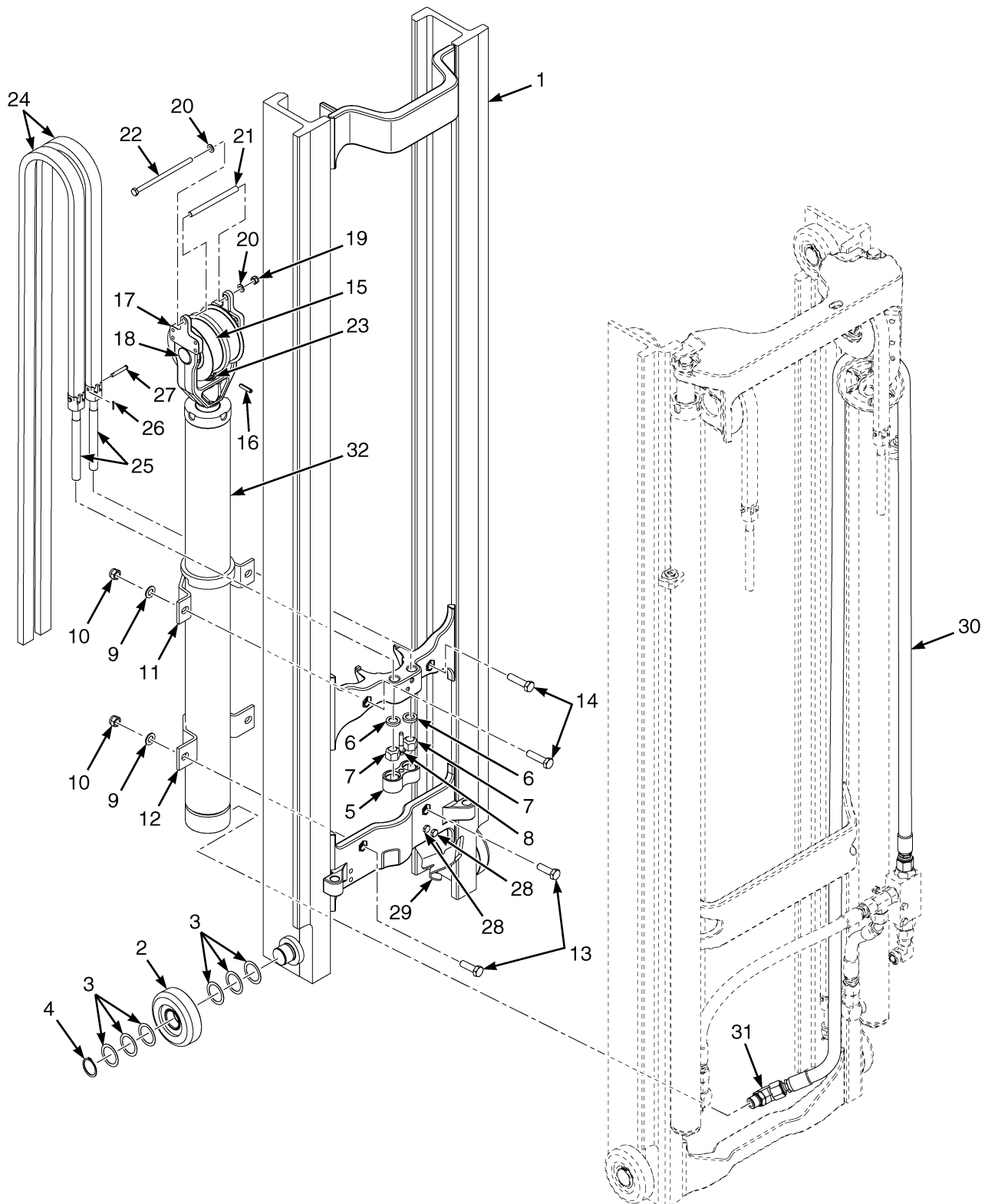
ITEM	PART NO.	DESCRIPTION	QTY
29	2062651	Lowering Control Valve	1
30	1486773	Fitting	1
31	4065168	Capscrew	2
32	4065167	Spacer	1
33	1581566	Nut	2
34	4029051	Capscrew	2
35	4054558	Isolator	2
36	1581557	Washer	4
37	4049173	Plate	1
38	4051501	Capscrew	2
39	1598660	Capscrew	1
40	1660415	Spacer (Thin Wall)	1
41	4013267	Stubshaft	1
42	4048782	Hose Sheave	1
43	1581591	Capscrew	1
44		Outer Mast (☞ Figure 12-1).....	..
45		Inner Mast and Free-Lift (☞ Figure 12-3).....	..

FOOTNOTES:**a** Optional**b** Refer to Table

NOTES

[illegible]

MAST ASSEMBLY (FIGURE 12-3) INNER MAST AND FREE-LIFT — A387 MAST SERIES



BP170801

MAST ASSEMBLY
INNER MAST AND FREE-LIFT – A387 MAST SERIES**H40-50XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
	Mast Assy	4640879	4640882	4640887	4640891
1	Inner Mast	4053838	4053840	4053845	4053848
24	Chain	180029	182343	986599	255548
30	Hose Assy	4623611	4623613	4623618	4623621

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	2
2	a 1395168	Load Roller ("A") (111.10/110.84)	2
2	a 1333397	Load Roller ("C") (112.62/112.36)	2
3	129387	Shim (0.020 in.)	12
4	58901	Snap Ring	2
4	a 1374797	Snap Ring	2
5	4052568	Restraint	1
6	297649	Ring	2
7	4031973	Nut	2
8	4133281	Capscrew	1
9	1581559	Washer	4
10	1581849	Nut	4
11	4057313	Clamp	1
12	4057611	Clamp	1
13	1581591	Capscrew	2
14	1581827	Capscrew	2
15	4052261	Chain Sheave	1
15	1378699	Ball Bearing	1
16	302465	Roll Pin	1
17	4131005	Crosshead	1
18	4046548	Pin	1
19	1581566	Nut	1
20	4081768	Washer	2
21	4056718	Roller Spacer	1
22	4061309	Capscrew	1
23	131358	Snap Ring	1
24	b	Chain	2
25	4188920	Chain Anchor	2
26	15211	Cotter Pin	2
27	1514866	Pin	2
28	1696161	Capscrew	2
29	4126698	Bracket Wldmt	1
30	b	Hose Assy	1
31	1516205	Fitting	1

MAST ASSEMBLY
INNER MAST AND FREE-LIFT – A387 MAST SERIES

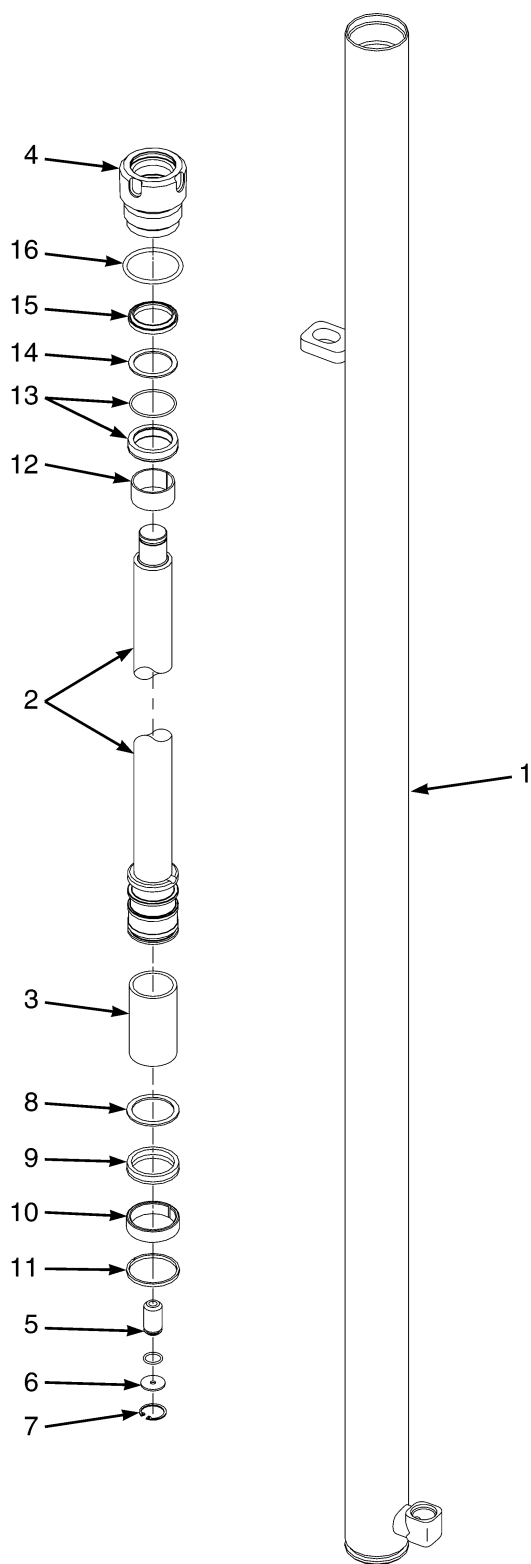
ITEM	PART NO.	DESCRIPTION	QTY
32		Free-Lift Cylinder (☞ Figure 12-5).....	1

FOOTNOTES:**a** Optional**b** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 12-4) THREE STAGE FULL FREE-LIFT — A387 MAST SERIES



BP170651

MAIN LIFT CYLINDER
THREE STAGE FULL FREE-LIFT – A387 MAST SERIES
H40-50XT

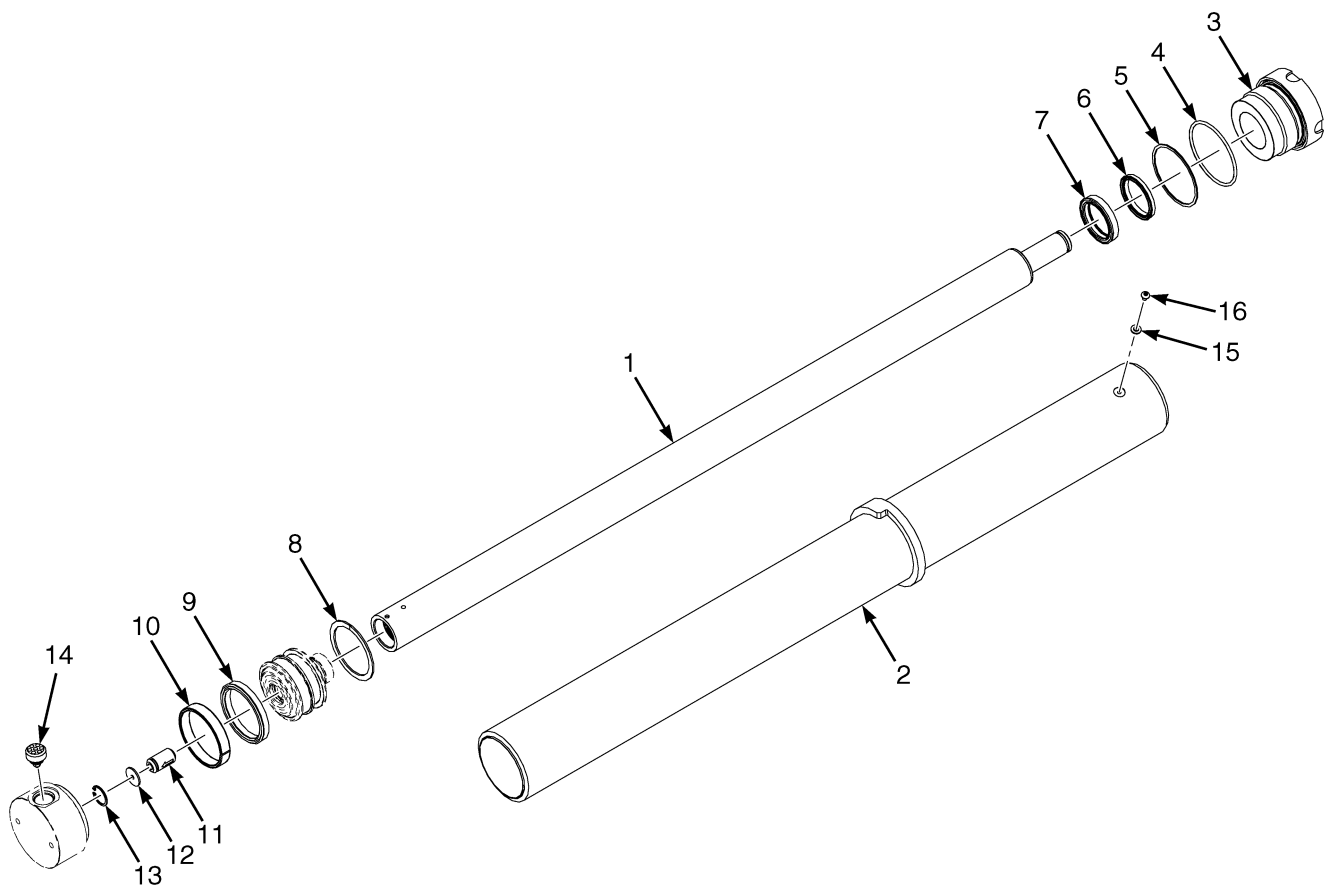
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
	Cylinder Group Number	8607223	8607207	8607212	8607215
	Lift Cylinder	4630373	4616167	4615886	4615890
1	Tube Wldmt- Cylinder	4041105	4041107	4041112	4041115
2	Cylinder Rod	1355591	1355599	1355620	1355633
3	Spacer	----	----	1355610	1355626

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	a	Tube Wldmt-Cylinder	1
2	a	Cylinder Rod	1
3	a	Spacer	1
4	4615847	Gland	1
5	257913	Check Valve	1
6	297531	Washer	1
6	637635	Washer (Optional)	1
7	187388	Snap Ring	1
8	638246	Back-Up Ring	1
9	1381064	Piston Seal	1
10	1356750	Wear Ring	1
11	1360127	Piston Ring	1
12	322902	Wear Ring	1
13	1356749	Rod Seal	1
14	322824	Back-Up Ring	1
15	1383063	Rod Wiper	1
16	4028986		
	92861	O-Ring	1
	4623973	Kit-Seal (Includes Items 8-16)	1

FOOTNOTES:

a Refer to Table

FREE-LIFT CYLINDER (FIGURE 12-5) THREE STAGE FULL FREE-LIFT — A387 MAST SERIES



BP170652

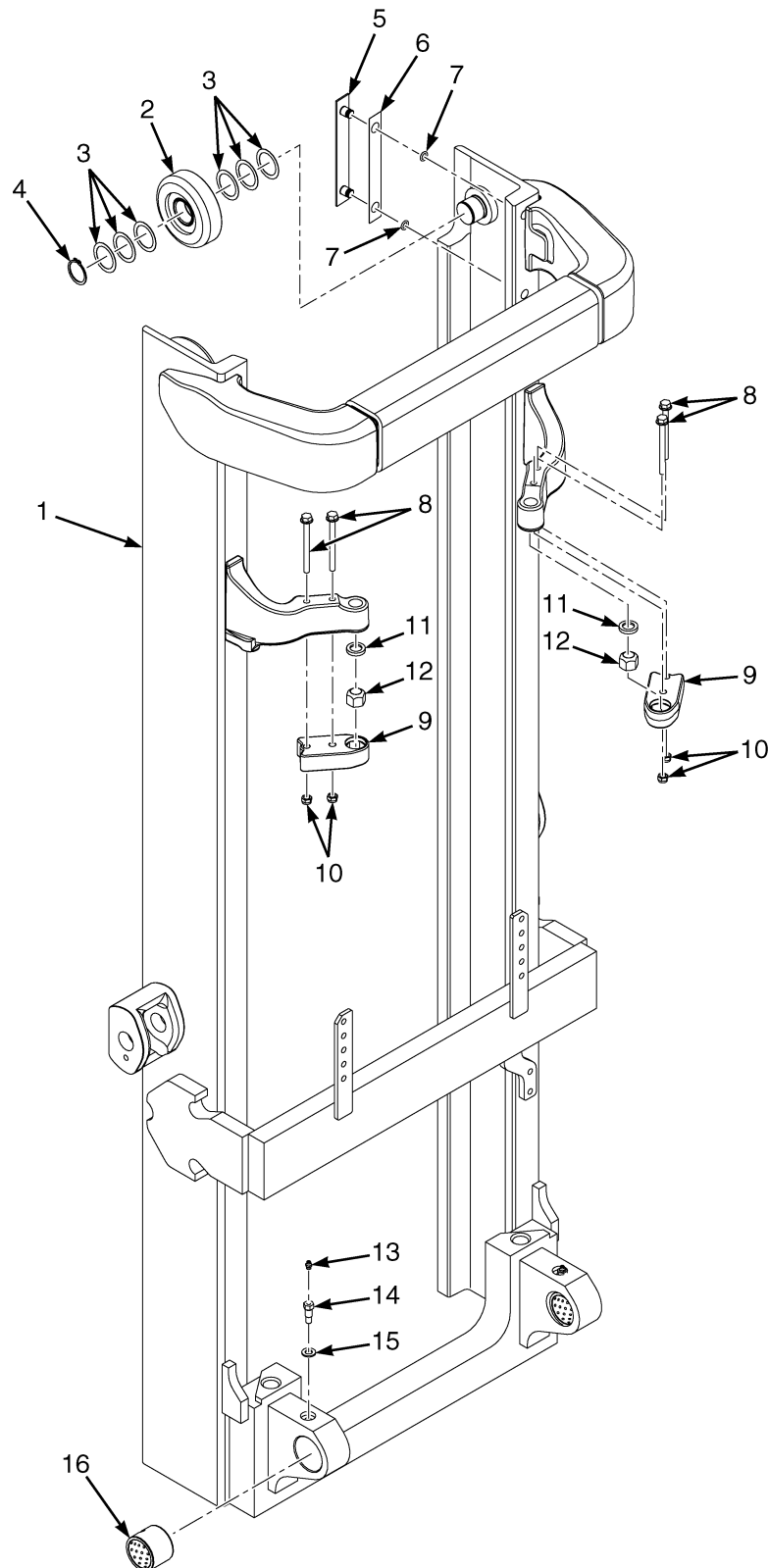
FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT – A387 MAST SERIES
H40-50XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
	Cylinder Group Number	8607255	8607257	8607263	8607266
	Free Lift Cylinder	4617958	4617961	4617967	4617970
1	Cylinder Rod	4046235	4046237	4046243	4046246
2	Tube Wldmt- Cylinder	4046205	4046207	4046213	4046216

ITEM	PART NO.	DESCRIPTION	QTY
	b	Free Lift Cylinder	1
1	b	Cylinder Rod	1
2	b	Tube Wldmt-Cylinder	1
3	1356292	Gland	1
4	90263	O-Ring	1
5	147973	Back-Up Ring	1
6	1463105	Rod Wiper	1
7	1622946	Rod Seal	1
8	2013089	Back-Up Ring	1
9	2013088	Rod Seal	1
10	1358972	Wear Ring	1
11	297538	Check Valve	1
12	297531	Washer	1
12	637635	Washer (Optional)	1
13	187388	Snap Ring	1
14	4055505	Flow Valve	1
15	190887	Sealing Ring	1
16	1361302	Screw	1
	a 190580	O-Ring	1
	1358969	Kit-Seal (Includes Items 4-10, 15)	1

FOOTNOTES:**a** Not Illustrated**b** Refer to Table

MAST ASSEMBLY (FIGURE 12-6) OUTER MAST — A397 MAST SERIES



BP170799

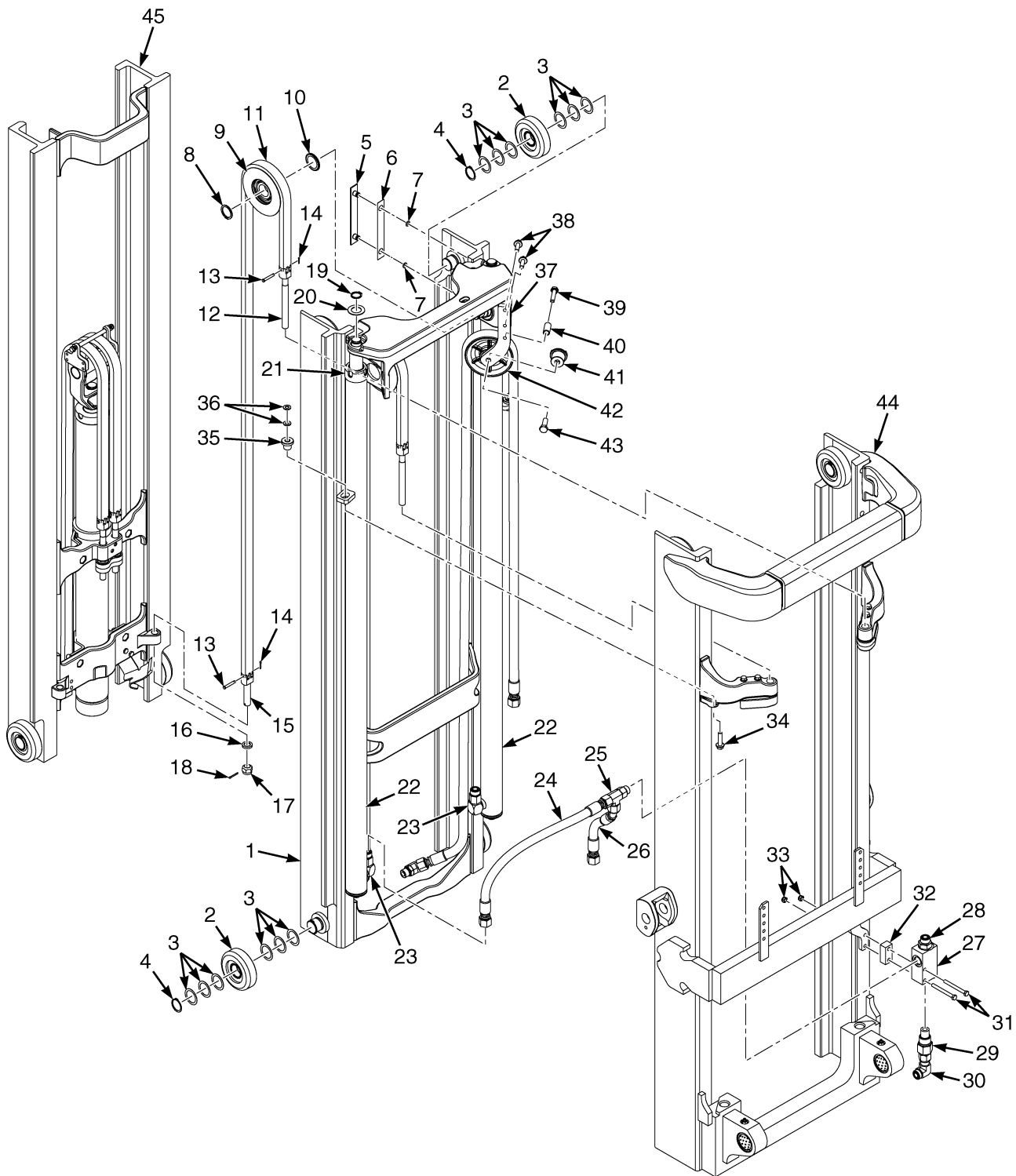
MAST ASSEMBLY
OUTER MAST – A397 MAST SERIES**H60XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3968 mm (156.2 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
	Mast Group Number	A397 3968	A397 4718	A397 4868	A397 5318
	Mast Assy	4640923	4640928	4640929	4640934
1	Outer Mast	4107507	4107512	4107513	4107516

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Outer Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	2
2	a 1395168	Load Roller ("A") (111.10/110.84)	2
2	a 1333397	Load Roller ("C") (112.62/112.36)	2
3	129387	Shim (0.020 in.)	12
4	58901	Snap Ring	2
4	a 1374797	Snap Ring	2
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	a 131715	Shim (0.007 in.)	2
7	104506	O-Ring	4
8	4082846	Capscrew	4
9	4051079	Restraint	2
10	1581566	Nut	4
11	297649	Ring	2
12	4031973	Nut	2
13	13957	Grease Fitting	2
13	a 16041	Grease Fitting	2
14	4033412	Capscrew	2
15	1581557	Washer	2
16	4033414	Bushing	2

FOOTNOTES:**a** Optional**b** Refer to Table

MAST ASSEMBLY (FIGURE 12-7) INTERMEDIATE MAST AND MAIN-LIFT — A397 MAST SERIES



BP170800

MAST ASSEMBLY
INTERMEDIATE MAST AND MAIN-LIFT – A397 MAST SERIES
H60XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3968 mm (156.2 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
		A397 3968	A397 4718	A397 4868	A397 5318
	Mast Assy	4640923	4640928	4640929	4640934
1	Intermediate Mast	4053806	4053810	4053811	4053814
11	Chain	1342382	1342385	1342383	1342131

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Intermediate Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	4
2	a 1395168	Load Roller ("A") (111.10/110.84)	4
2	a 1333397	Load Roller ("C") (112.62/112.36)	4
3	129387	Shim (0.020 in.)	24
4	58901	Snap Ring	2
4	a 1374797	Snap Ring	2
5	215211	Wear Strip	2
6	131716	Shim (0.020 in.)	2
6	a 131715	Shim (0.007 in.)	2
7	104506	O-Ring	4
8	304526	Snap Ring	2
9	4054944	Chain Sheave Assembly	2
9	1378699	Ball Bearing	1
9	37752	Snap Ring	1
10	335661	Spacer	2
11	b	Chain	2
12	4188920	Chain Anchor	2
13	1514866	Pin	2
14	15211	Cotter Pin	4
15	1333329	Chain Anchor	2
16	297649	Ring	2
17	161003	Nut	2
18	15223	Cotter Pin	2
19	131358	Snap Ring	2
20	1333382	Washer (0.060 in.)	2
21	1354915	Washer (0.010 in.)	2
21	a 1354916	Washer (0.030 in.)	2
21	a 1354917	Washer (0.060 in.)	2
22		Main Lift Cylinder (☞ Figure 12-9)	2
23	2062687	Hyd Velocity Fuse	2
24	4620151	Hose Assy	1
25	1592853	Fitting	1
26	4620152	Hose Assy	1
27	4055582	Housing	1
28	1486751	Fitting	1

MAST ASSEMBLY

INTERMEDIATE MAST AND MAIN-LIFT – A397 MAST SERIES

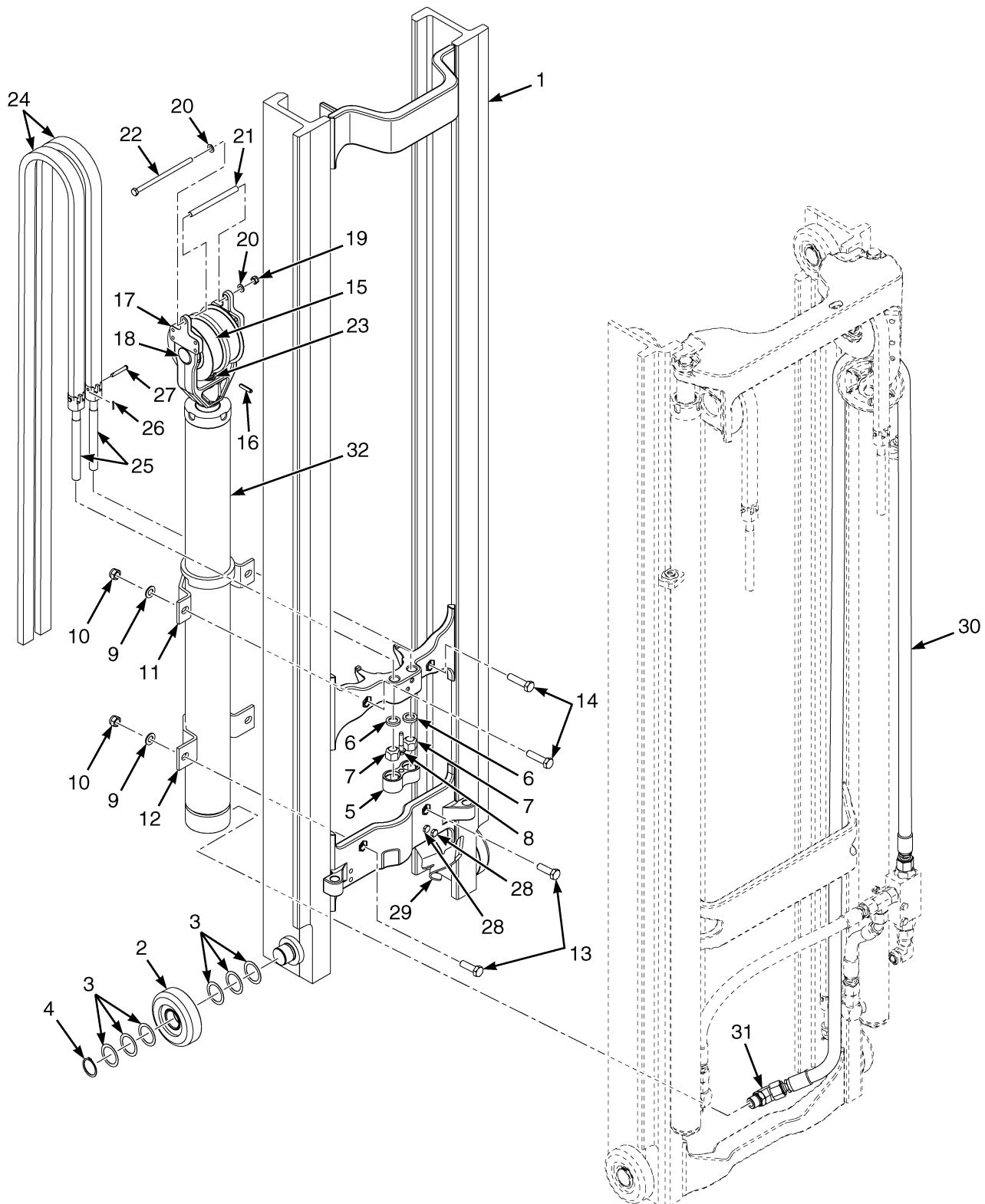
ITEM	PART NO.	DESCRIPTION	QTY
29	2062652	Lowering Control Valve	1
30	1486773	Fitting	1
31	4065168	Capscrew	2
32	4101579	Spacer Block	1
33	1581566	Nut	2
34	4029051	Capscrew	2
35	4054558	Isolator	2
36	1581557	Washer	4
37	4049173	Plate	1
38	4051501	Capscrew	2
39	1598660	Capscrew	1
40	1660415	Spacer (Thin Wall)	1
41	4013267	Stubshaft	1
42	4048782	Hose Sheave	1
43	1581591	Capscrew	1
44		Outer Mast (☞ Figure 12-6).....	..
45		Inner Mast and Free-Lift (☞ Figure 12-8).....	..

FOOTNOTES:**a** Optional**b** Refer to Table

NOTES

[illegible]

MAST ASSEMBLY (FIGURE 12-8) INNER MAST AND FREE-LIFT — A397 MAST SERIES



BP170801

MAST ASSEMBLY
INNER MAST AND FREE-LIFT – A397 MAST SERIES**H60XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3968 mm (156.2 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
	Mast Group Number	A397 3968	A397 4718	A397 4868	A397 5318
	Mast Assy	4640923	4640928	4640929	4640934
1	Inner Mast	4053838	4053842	4053843	4053846
24	Chain	1342380	1342123	1342129	1342128
30	Hose Assy	4637732	4637736	4637737	4637740

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	1333396	Load Roller ("B") (111.48/111.22)	2
2	a 1395168	Load Roller ("A") (111.10/110.84)	2
2	a 1333397	Load Roller ("C") (112.62/112.36)	2
3	129387	Shim (0.020 in.)	12
4	58901	Snap Ring	2
4	a 1374797	Snap Ring	2
5	4052568	Restraint	1
6	297649	Ring	2
7	4031973	Nut	2
8	4133281	Capscrew	1
9	1581559	Washer	4
10	1581849	Nut	4
11	4057313	Clamp	1
12	4057611	Clamp	1
13	1581591	Capscrew	2
14	1581827	Capscrew	2
15	4052261	Chain Sheave	1
15	1378699	Ball Bearing	1
16	302465	Roll Pin	1
17	4131005	Crosshead	1
18	4046548	Pin	1
19	1581566	Nut	1
20	4081768	Washer	2
21	4056718	Roller Spacer	1
22	4061309	Capscrew	1
23	131358	Snap Ring	1
24	b	Chain	2
25	4072704	Chain Anchor	2
26	15211	Cotter Pin	2
27	1514866	Pin	2
28	1696161	Capscrew	2
29	4126698	Bracket Wldmt	1
30	b	Hose Assy	1
31	1516205	Fitting	1

MAST ASSEMBLY
INNER MAST AND FREE-LIFT – A397 MAST SERIES

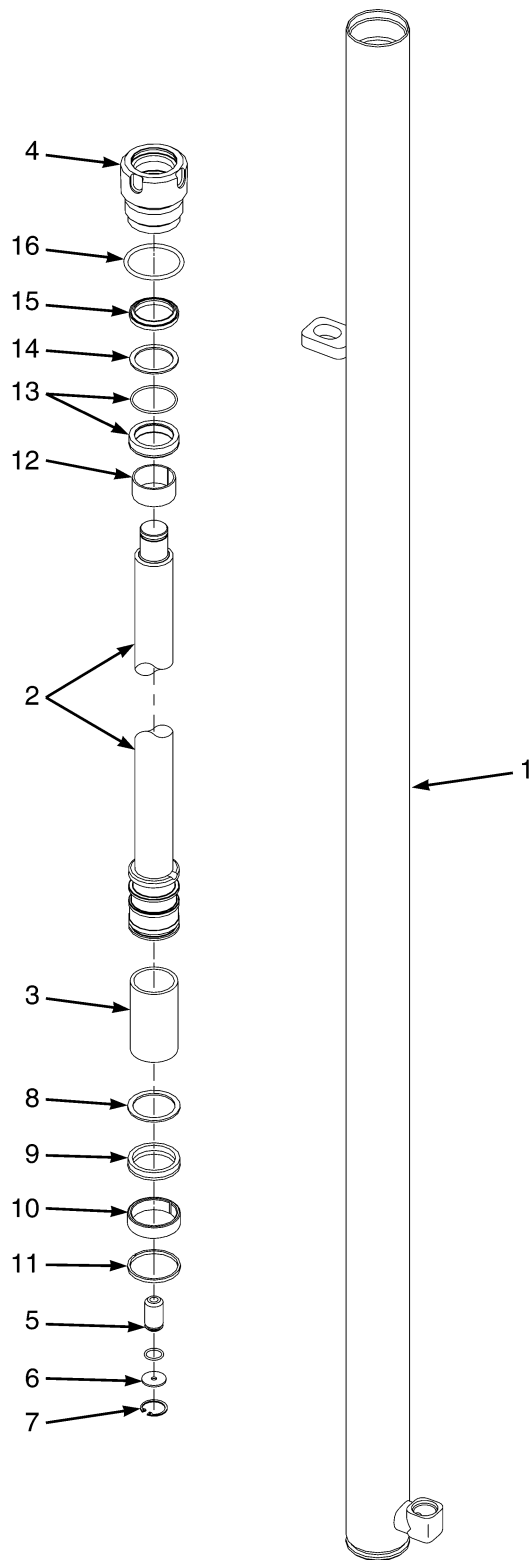
ITEM	PART NO.	DESCRIPTION	QTY
32		Free-Lift Cylinder (☞ Figure 12-10).....	1

FOOTNOTES:**a** Optional**b** Refer to Table

NOTES

[illegible]

MAIN LIFT CYLINDER (FIGURE 12-9) THREE STAGE FULL FREE-LIFT — A397 MAST SERIES



BP170651

MAIN LIFT CYLINDER
THREE STAGE FULL FREE-LIFT – A397 MAST SERIES
H60XT

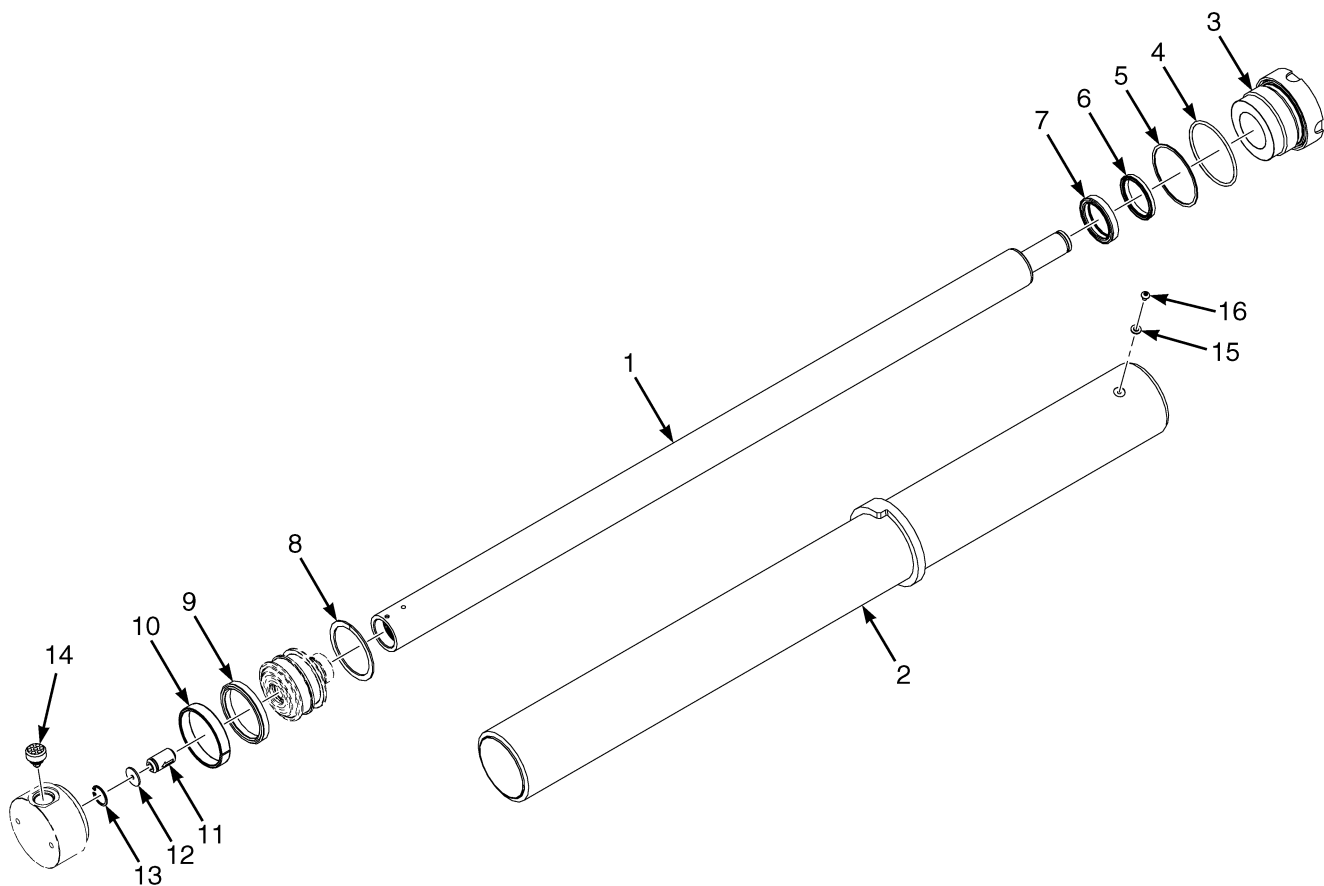
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4568 mm (179.8 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
	Mast Group Number	A397 4568	A397 4718	A397 4868	A397 5318
	Cylinder Group Number	8607308	8607309	8607310	8607313
	Lift Cylinder	4615905	4615906	4615907	4615910
1	Tube Wldmt- Cylinder	4041238	4041239	4041240	4041243
2	Cylinder Rod	1355745	1355749	1355710	1355762
3	Spacer	2046164	2073087	2073087	2077818

ITEM	PART NO.	DESCRIPTION	QTY
	a	Lift Cylinder	2
1	a	Tube Wldmt-Cylinder	1
2	a	Cylinder Rod	1
3	a	Spacer	1
4	4615848	Gland	1
5	257913	Check Valve	1
6	297531	Washer	1
6	637635	Washer (Optional)	1
7	187388	Snap Ring	1
8	335012	Back-Up Ring	1
9	1381063	Piston Seal	1
10	1356751	Wear Ring	1
11	1356748	Piston Ring	1
12	322902	Wear Ring	1
13	1356749	Rod Seal	1
14	322824	Back-Up Ring	1
15	1383063	Rod Wiper	1
16	59229	O-Ring	1
	4623974	Kit-Seal (Includes Items 8-16)	1

FOOTNOTES:

a Refer to Table

FREE-LIFT CYLINDER (FIGURE 12-10) THREE STAGE FULL FREE-LIFT — A397 MAST SERIES



BP170652

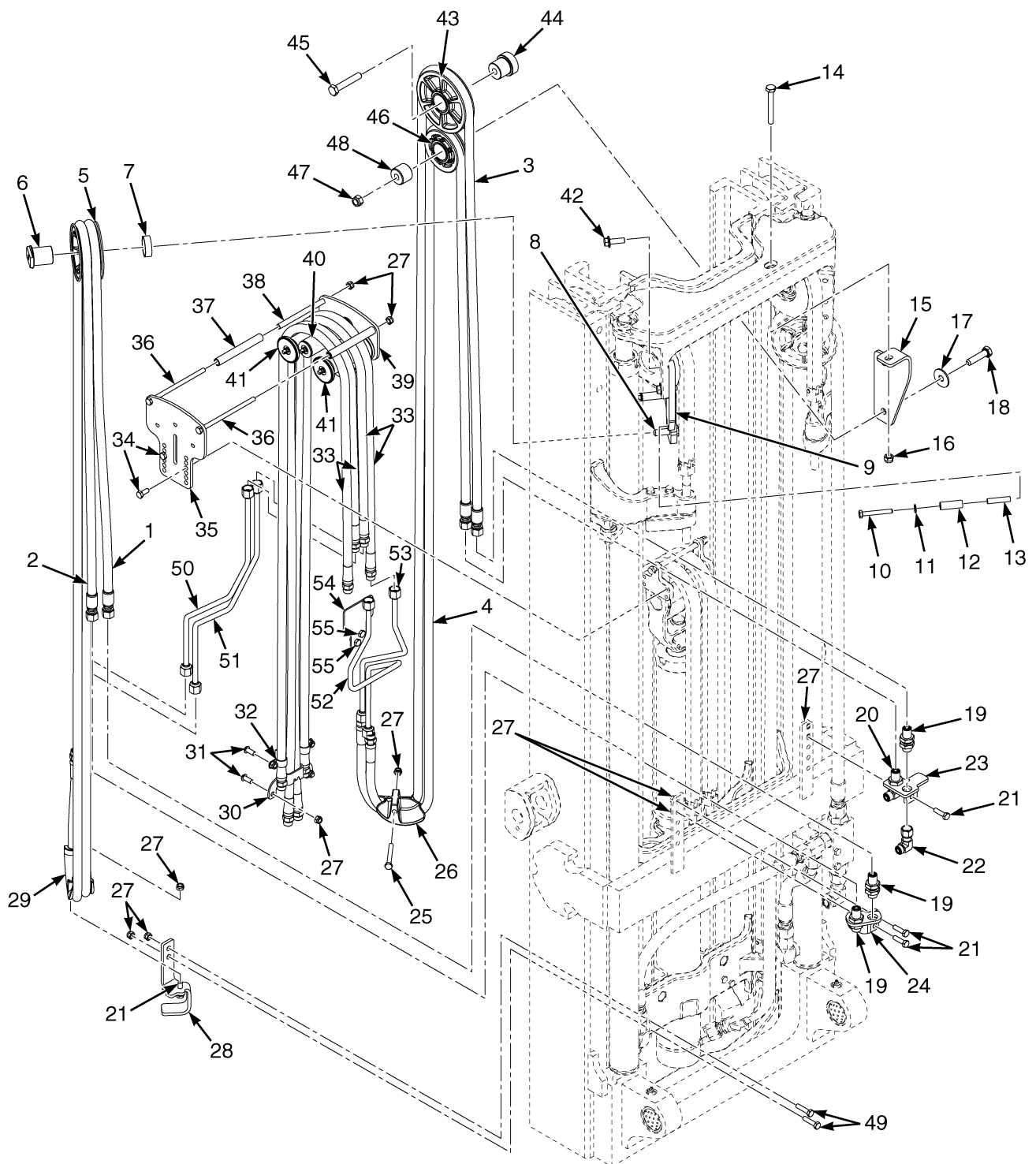
FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT – A397 MAST SERIES
H60XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4568 mm (179.8 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
	Mast Group Number	A397 4568	A397 4718	A397 4868	A397 5318
	Cylinder Group Number	8607358	8607360	8607361	8607365
	Free Lift Cylinder	4618057	4618059	4618060	4618064
1	Cylinder Rod	4046308	4046310	4046311	4046315
2	Tube Wldmt- Cylinder	4046268	4046270	4046271	4046275

ITEM	PART NO.	DESCRIPTION	QTY
	b	Free Lift Cylinder	1
1	b	Cylinder Rod	1
2	b	Tube Wldmt-Cylinder	1
3	1356661	Gland	1
4	15880	O-Ring	1
5	164840	Back-Up Ring	1
6	1463105	Rod Wiper	1
7	1622946	Rod Seal	1
8	637565	Back-Up Ring	1
9	309062	Rod Seal	1
10	636941	Wear Ring	1
11	297538	Check Valve	1
12	297531	Washer	1
12	637635	Washer (Optional)	1
13	187388	Snap Ring	1
14	4055506	Flow Valve	1
15	190887	Sealing Ring	1
16	1361302	Screw	1
	a 190580	O-Ring	1
	1356662	Kit-Seal (Includes Items 4-10, 99)	1

FOOTNOTES:**a** Not Illustrated**b** Refer to Table

HEADER HOSE AND ATTACHING PARTS (FIGURE 12-11)



BP170804

HEADER HOSE AND ATTACHING PARTS**H40-50XT**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4310 mm (169.7 in.)	4760 mm (187.4 in.)	5510 mm (216.9 in.)	5960 mm (234.6 in.)
	Mast Group Number	A387 4310	A387 4760	A387 5510	A387 5960
1	Header Hose	4636926	4636928	4636933	4636936
2	Header Hose	4636893	4636895	4636900	4636903
3	Header Hose	4636959	4636961	4636966	4636969
4	Header Hose	4636992	4636994	4624100	4637002
33	Header Hose	4624213	4624215	4624100	4624103

H60XT

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3968 mm (156.2 in.)	4718 mm (185.7 in.)	4868 mm (191.7 in.)	5318 mm (209.4 in.)
	Mast Group Number	A397 3968	A397 4718	A397 4868	A397 5318
1	Header Hose	4636926	4636930	4636931	4636934
2	Header Hose	4636893	4636897	4636898	4636901
3	Header Hose	4636959	4636963	4636964	4636967
4	Header Hose	4636992	4636996	4636997	4637000
33	Header Hose	4624213	4624217	4624218	4624101

KEY:**A: 3 Function****B: 4 Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	b	Header Hose	1	1
2	b	Header Hose	1	1
3	b	Header Hose	..	1
4	b	Header Hose	..	1
5	4048781	Hose Sheave	1	1
5	4050091	Bushing	1	1
6	4013268	Stubshaft	1	1
7	4051293	Spacer	1	1
8	1581581	Capscrew	1	1
9	4132420	Bracket	1	1
10	1581836	Capscrew	2	2
11	1581556	Washer	2	2
12	4138115	Roller	2	2
13	4138114	Roller	2	2
14	1626461	Capscrew	..	1
15	4049172	Bracket	..	1

HEADER HOSE AND ATTACHING PARTS

KEY:

A: 3 Function

B: 4 Function

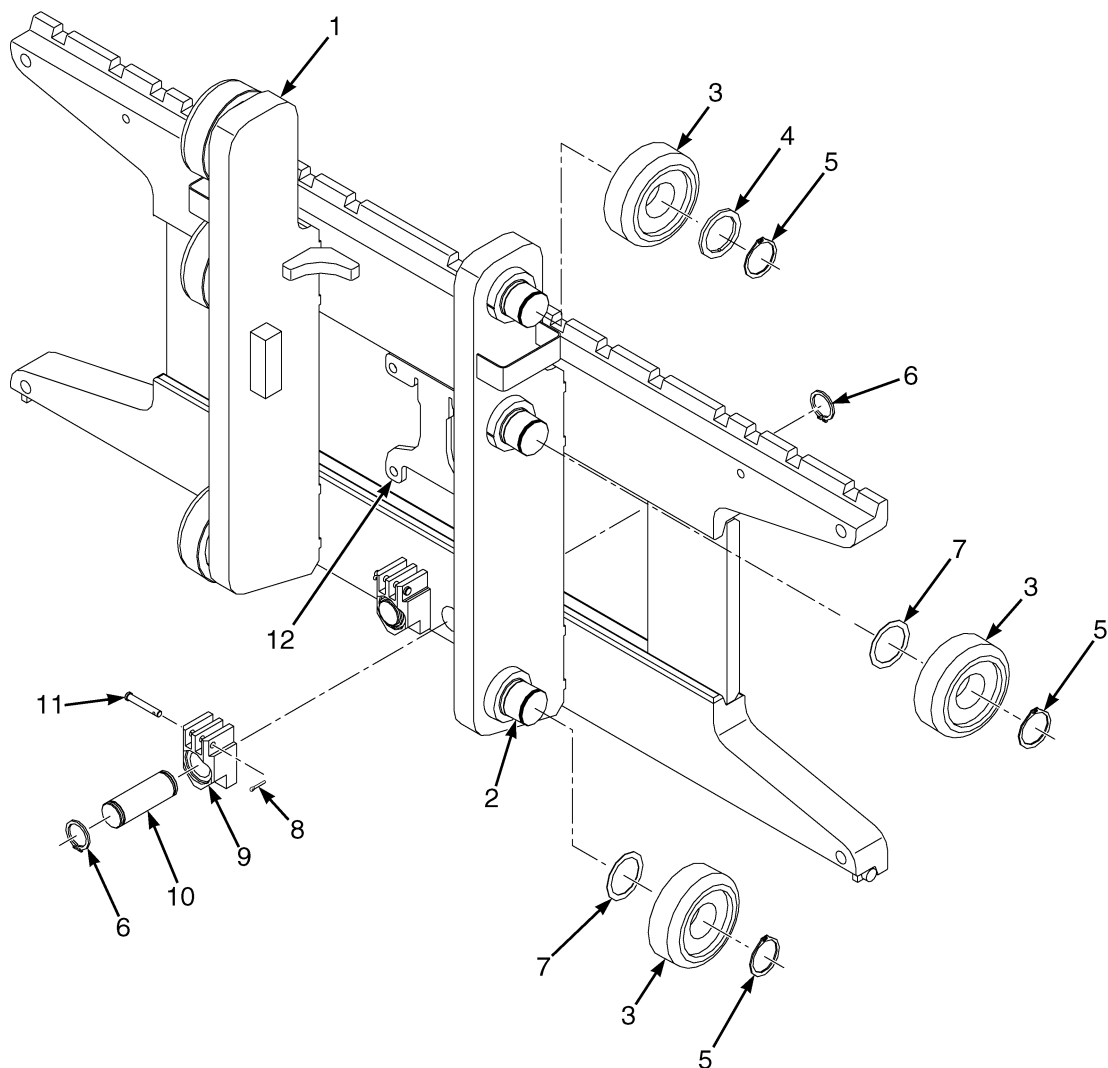
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
16	1581567	Nut	..	1
17	1345190	Washer	..	1
18	1581827	Capscrew	..	1
19	1528573	Fitting	2	3
20	1528579	Fitting	..	1
21	1696161	Capscrew	3	5
22	1473895	Fitting	..	1
23	4058926	Bracket	..	1
24	4122876	Bracket	1	1
25	4016370	Capscrew	..	1
26	4057777	Bracket	..	1
27	1581566	Nut	9	14
28	4104560			
	4120649	Bracket	1	1
29	4622150	Turnaround	1	1
30	4055683	Hose Clamp	1	1
31	1597448	Capscrew	2	4
32	4082001	Clamp	..	2
33	b	Header Hose	2	4
34	1581580	Capscrew	4	4
35	4059108	Plate	1	1
36	4061309	Capscrew	2	2
37	4049218	Roller Shaft	2	2
38	4056718	Roller Spacer	2	2
39	4059109	Plate	1	1
40	4128358	Roller , Center Roller Assembly	1	1
41	4128356	Roller	2	2
42	4051501	Capscrew	2	2
43	4048783	Hose Sheave	..	1
43	4050091	Bushing	1	1
44	4048778	Stubshaft	..	1
45	1581830	Capscrew	..	1
46	4048784	Hose Sheave	..	1
46	4050091	Bushing	1	1
47	1581849	Nut	..	1
48	4051885	Stubshaft	..	1
49	1596420	Capscrew	2	2
50	4629746	Tube Assy	1	1
51	4629747	Tube Assy	1	1
52	4629749	Tube Assy	..	1
53	4629748	Tube Assy	..	1
54		Plate	..	..
55	1581579	Capscrew	2	2
	a 1529015	Cap (Without auxiliary hoses)	2	4

FOOTNOTES:

a Not Illustrated

b Refer to Table

CARRIAGE (FIGURE 12-12) THREE STAGE FULL FREE-LIFT



BP170680

CARRIAGE
THREE STAGE FULL FREE-LIFT**KEY:****A: H40-50XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4621631	Carriage Assembly (42 in.)	1	..
	4621637	Carriage Assembly (42 in.)	..	1
1	4055430	Carriage Wldmt (42 in.)	1	..
1	4055473	Carriage Wldmt (42 in.)	..	1
2	1345216	Stubshaft	6	6
3	1333399	Load Roller ("B") (3.63 in./3.62 in.)	6	6
3	1393142	Load Roller ("B") (3.24 in.) (Optional)	6	6
3	1395174	Load Roller ("A") (3.22 in.) (Optional)	6	6
3	1395176	Load Roller ("A") (3.23 in.) (Optional)	6	6
4	366115	Spacer	2	2
5	58901	Snap Ring	6	6
5	a 1374797	Snap Ring (Optional)	6	6
6	131358	Snap Ring	4	4
7	129387	Shim (0.020 in.)	28	28
8	15211	Cotter Pin	2	2
9	1369345	Chain Anchor (Dual Hole)	2	..
9	1504010	Chain Anchor (Single Hole) (Optional)	2	..
9	1369344	Chain Anchor (Dual Hole)	..	2
9	1504012	Chain Anchor (Single Hole) (Optional)	..	2
10	317735	Pin	2	2
11	1514866	Pin (Chain Anchor)	2	2
12	4082003	Plate (Hose)	1	..
12	4082005	Plate (Hose)	..	1

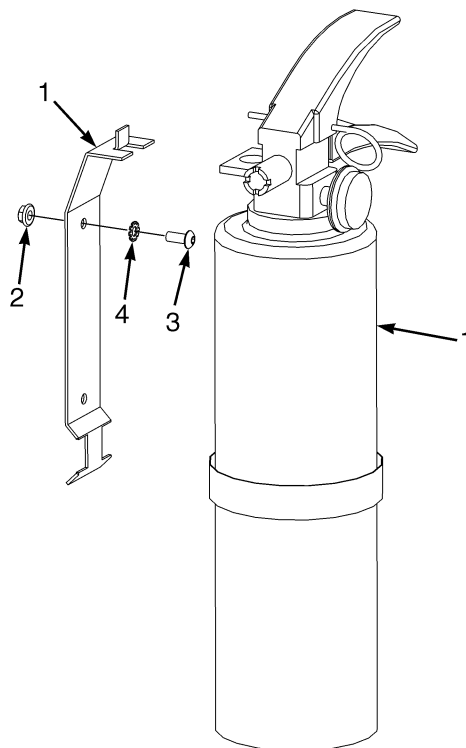
FOOTNOTES:**a** Not Illustrated

[illegible]

**SECTION 13
OPTIONS**

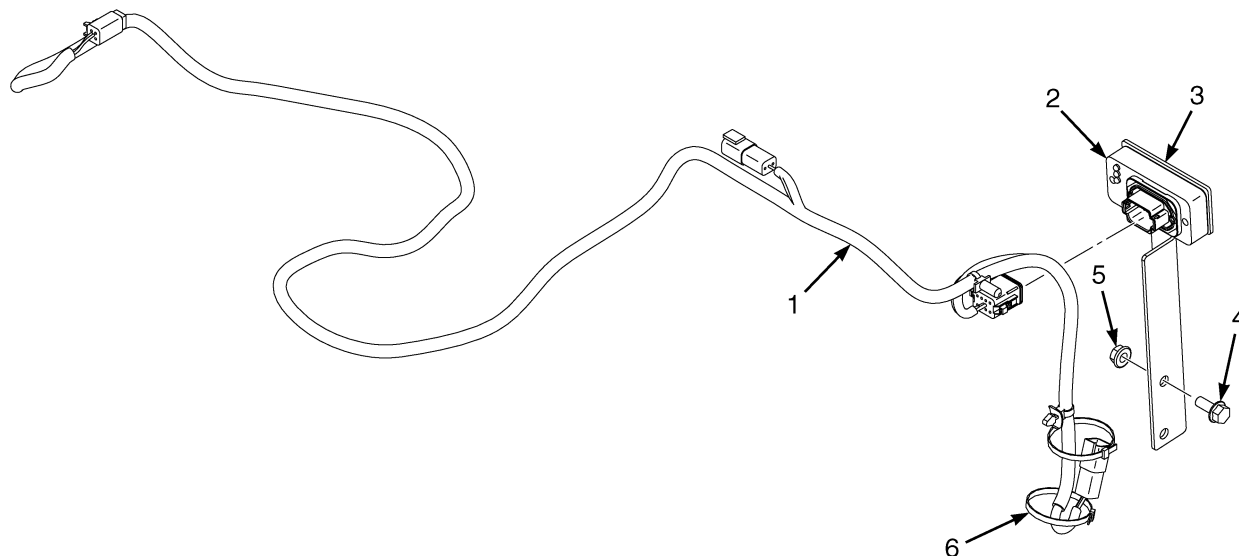
DESCRIPTION	PAGE
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FIRE EXTINGUISHER (FIGURE 13-1)



BP000496

ITEM	PART NO.	DESCRIPTION	QTY
1	4136632	Fire Extinguisher Assembly	1
1	4136630	Bracket	1
1	4136631	Fire Extinguisher	1
1	1531558	Insert	2
1	292500	Capscrew	2
1	292680	Washer	2

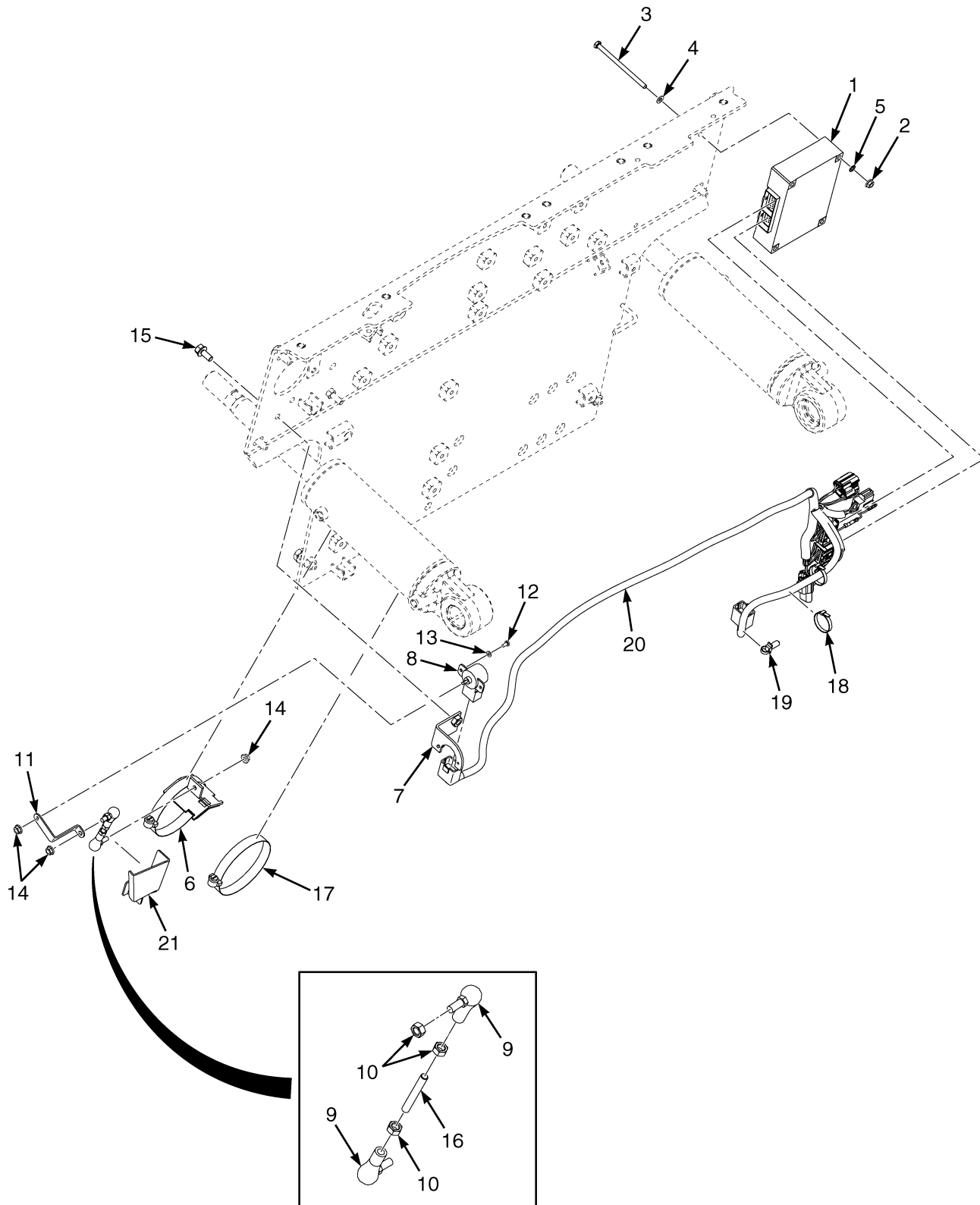
**SEAT BELT (FIGURE 13-2)
INTERLOCK**

BP001066

ITEM	PART NO.	DESCRIPTION	QTY
1	4656381	Wire Harness (Seat Belt Interlock) (☞ Figure 5-22).....	1
2	4634955		
	4651927		
	4655560	Control Module (Seat Belt Sequence) (Seat Belt Sequence)	1
3	4644284	Bracket (Module)	1
4	1527880	Capscrew	2
5	1382472		
	1502543	Nut	2
6	2004005	Strap Clamp	2
	a 4103377	Tape (Module)	1

FOOTNOTES:**a** Not illustrated

CONTROLLER (FIGURE 13-3) RETURN TO SET TILT GROUP

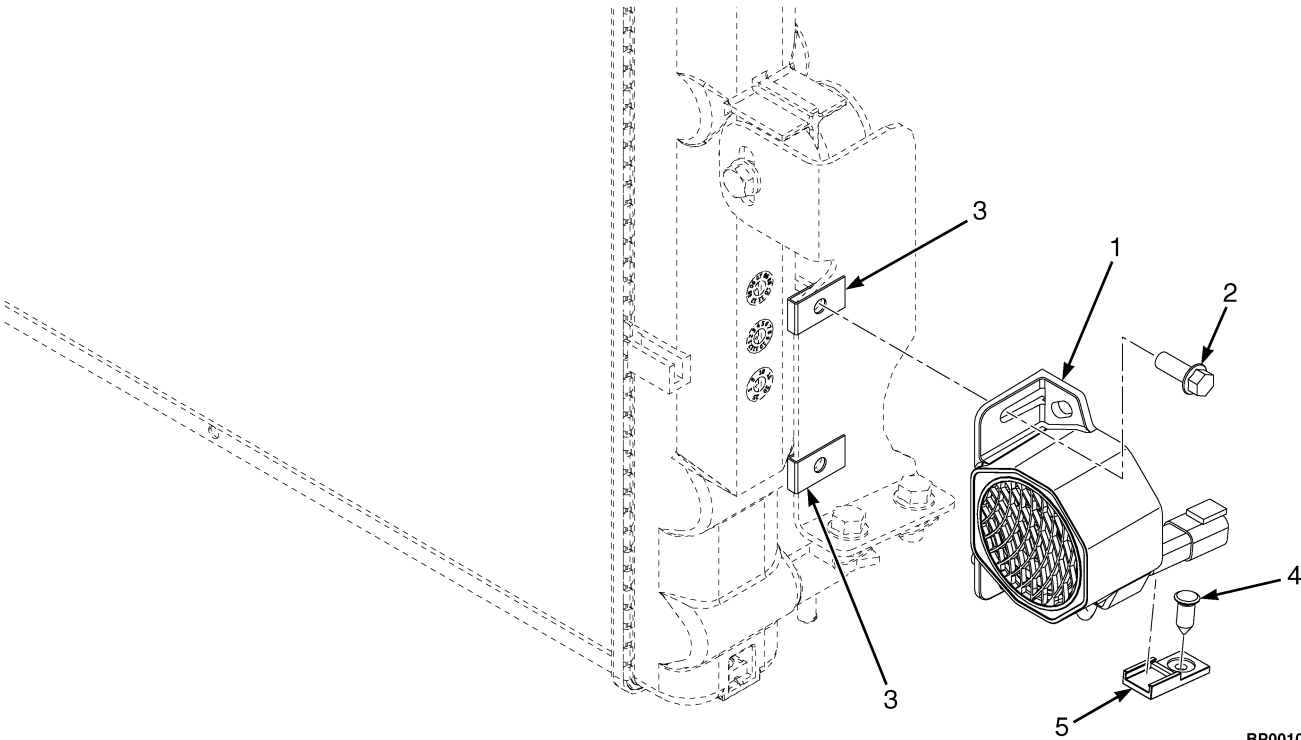


BP001050

**CONTROLLER
RETURN TO SET TILT GROUP**

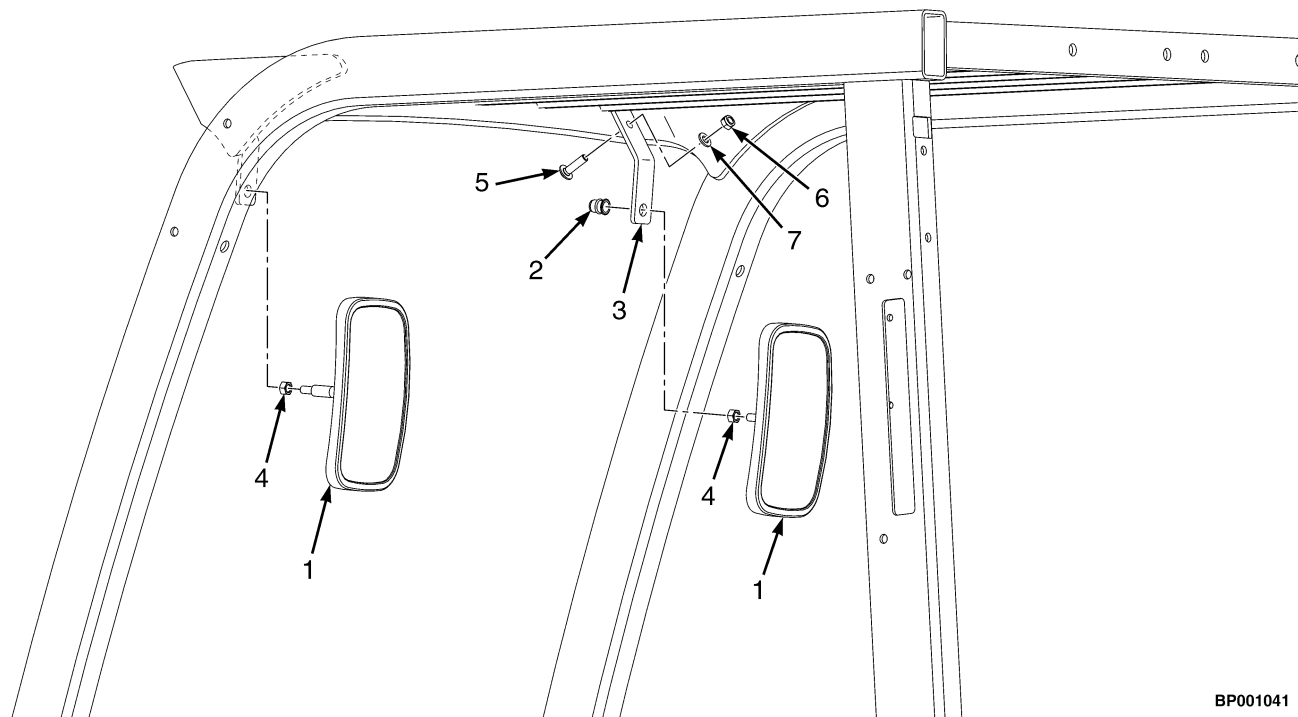
ITEM	PART NO.	DESCRIPTION	QTY
1	4655759	Controller , Return to Vertical	1
2	1307884		
	1514429	Nut	3
3	1696233	Capscrew	3
4	4093489		
	320156	Washer	3
5	296379	Washer	3
6	2093120	Bracket , Rod Assy	1
6	2090369	Spacer , Rubber (Between Bracket and Cylinder)	1
7	2090557	Bracket Wldmt , Sensor Weldment	1
8	4649900	Potentiometer	1
9	2027949	Ball Joint	2
10	136687	Nut	3
11	4122251	Arm , Sensor	1
12	302019	Screw	2
13	320154	Washer	2
14	1307884		
	1514429	Nut	3
15	1608654	Capscrew	2
16	2090365	Rod , Tilt Sensor	1
17	115696	Hose Clamp	2
18	137852	Strap Clamp	2
19	4140361	Cable Clip	1
20	4641377	Wire Harness , Vertical Tilt	1
21	4170276	Hose Guard	1

BACKUP ALARM (FIGURE 13-4)



BP001021

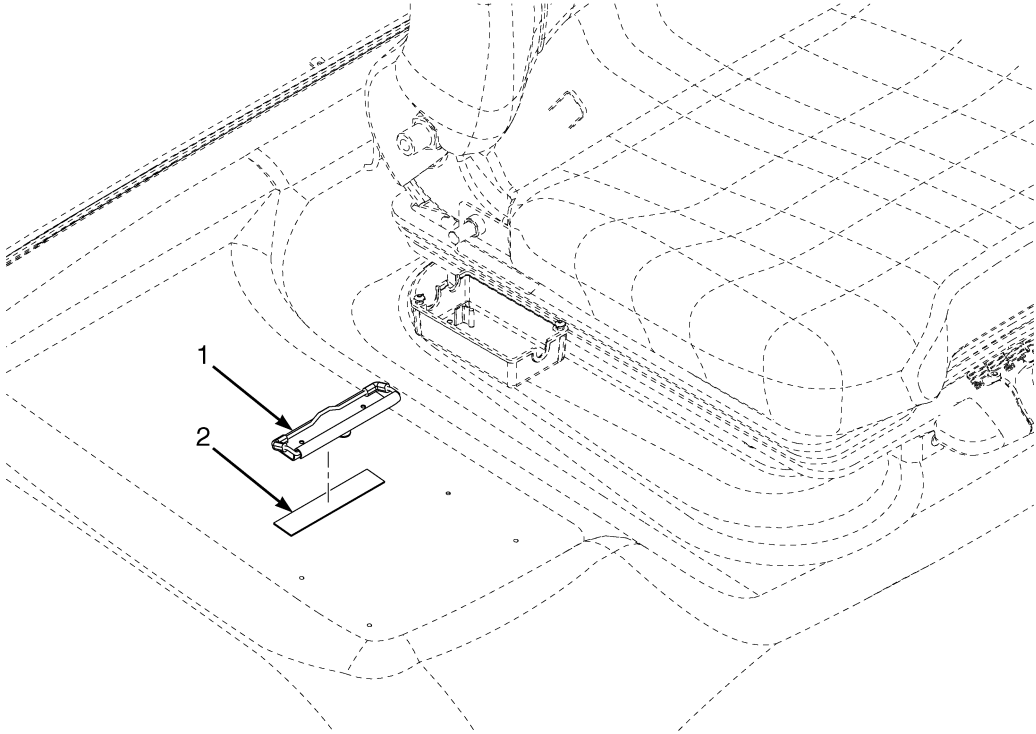
ITEM	PART NO.	DESCRIPTION	QTY
1	4633862	Alarm (12-24V Adjustable 82-102 dB)	1
2	1527877	Capscrew	2
3	1566420	Nut (Foldover)	2
4	1582464	Fastener	1
5	1500912	Clip	1

MIRRORS (FIGURE 13-5)

BP001041

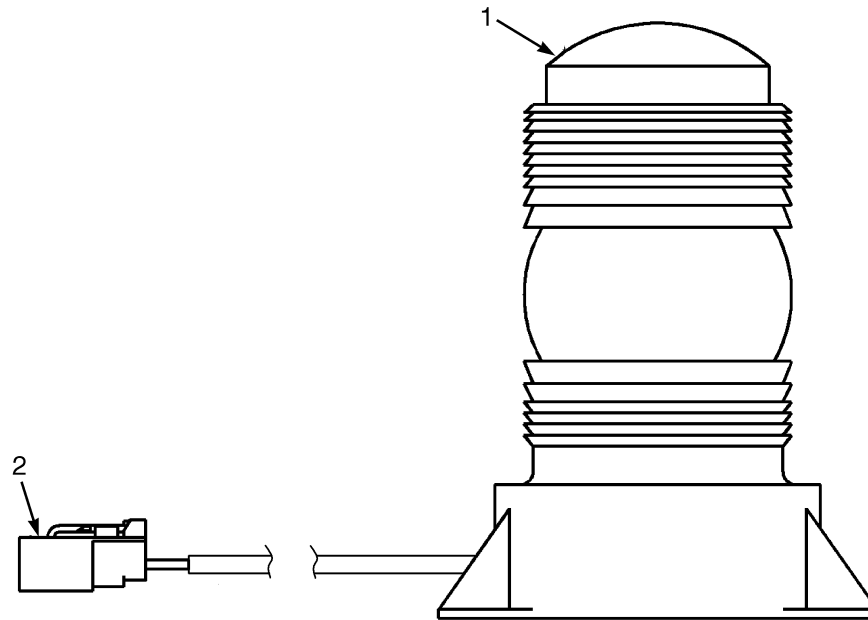
ITEM	PART NO.	DESCRIPTION	QTY
1	4610037	Mirror	2
2	1530243	Insert	2
3	4165561	Bracket	2
4	2022719	Nut	2
5	4645302	Capscrew	2
6	1581566	Nut	2
7	296418	Washer	2

**DOCUMENT CLIP (FIGURE 13-6)
WITHOUT HOOD BLANKET**



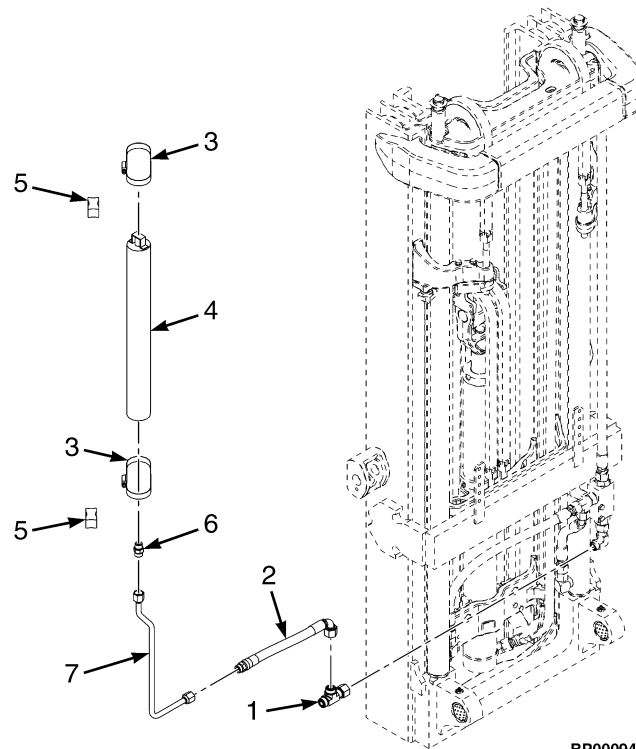
BP001030

ITEM	PART NO.	DESCRIPTION	QTY
1	4154207	Clip	1
2	4154208	Tape	1

STROBE LIGHT (FIGURE 13-7)
LED

BP000363

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

ACCUMULATOR (FIGURE 13-8)
THREE STAGE FFL/TWO STAGE LFL

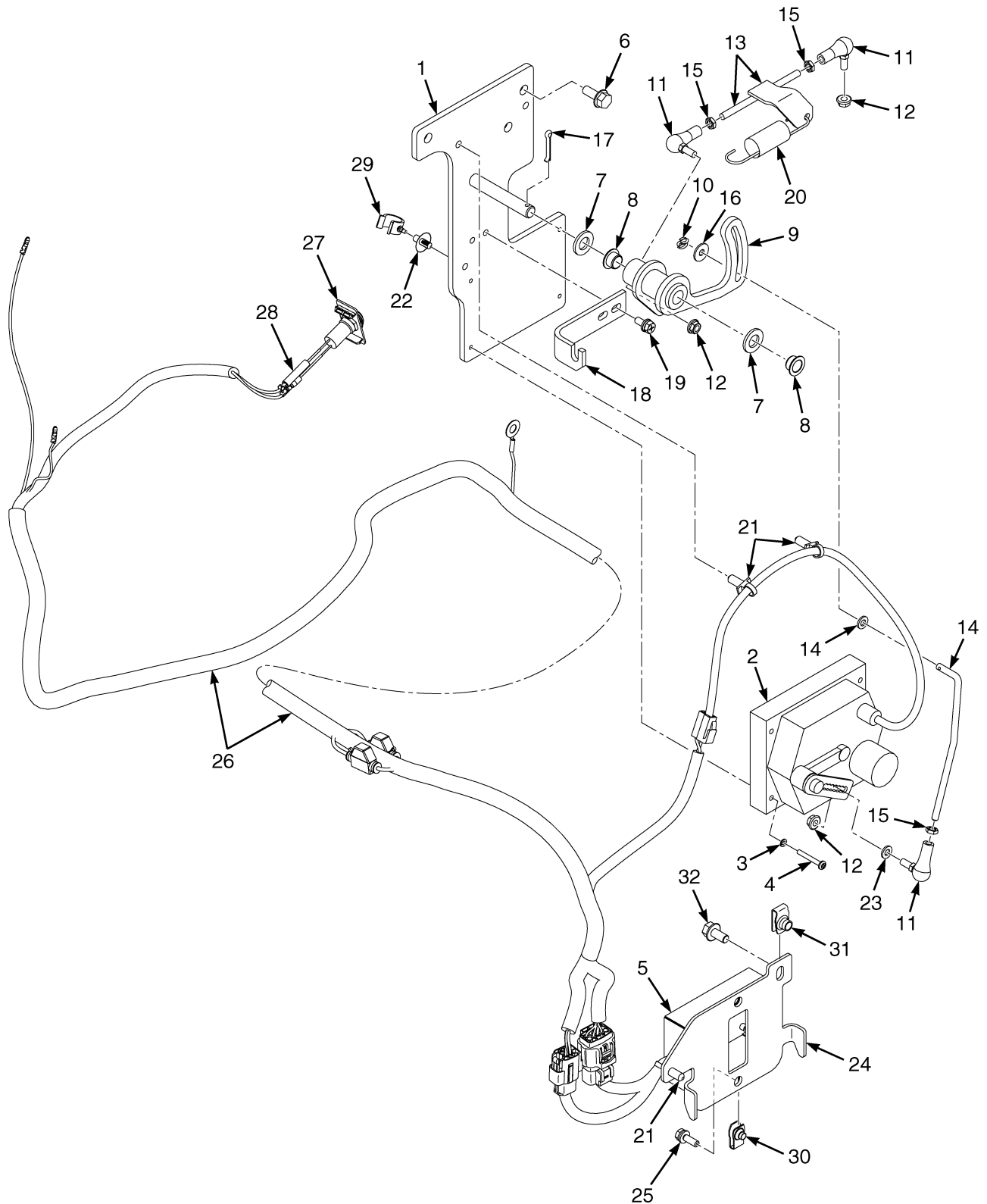
BP000944

ITEM	PART NO.	DESCRIPTION	QTY
1	1487096	Fitting	1
2	4626480	Hose Assy	1
3	4031653	Strap Clamp	2
4	1465897	Accumulator (1 Quart)	1
5	1609864	Spacer	2
6	1473887	Fitting	1
7	4641248	Tube Assy	1

NOTES

[illegible]

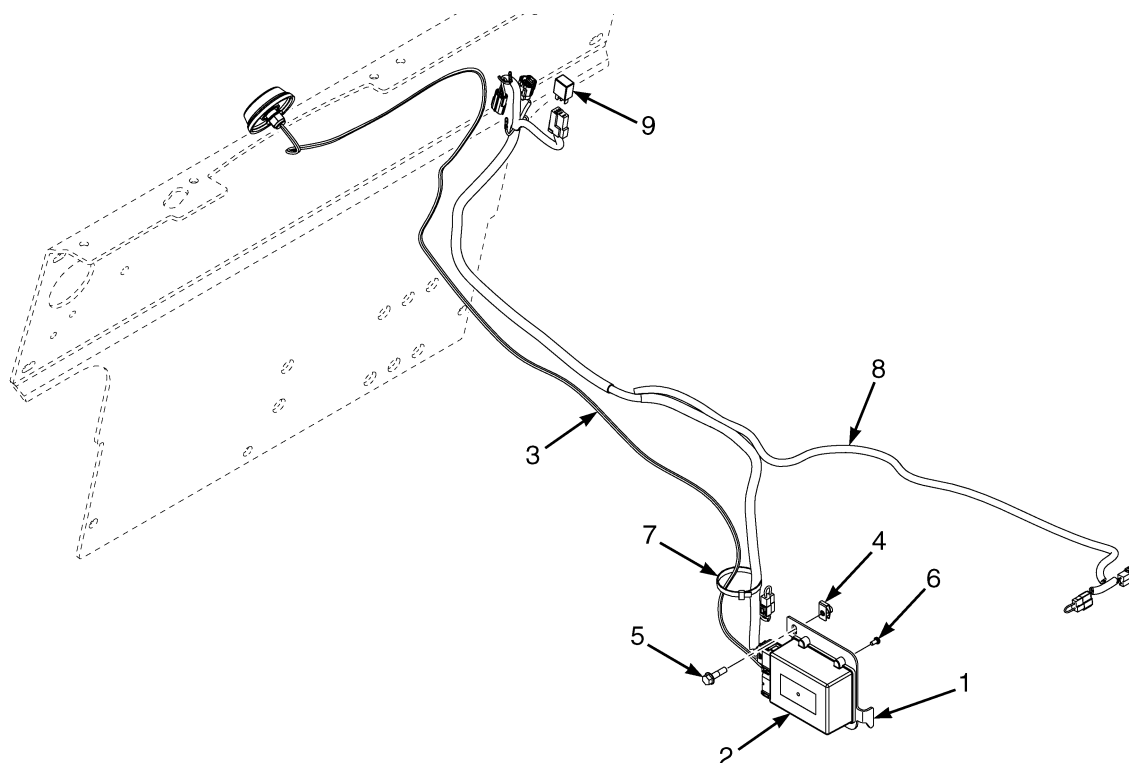
TRACTION SPEED LIMITER (FIGURE 13-9) YANMAR DIESEL



BP001070

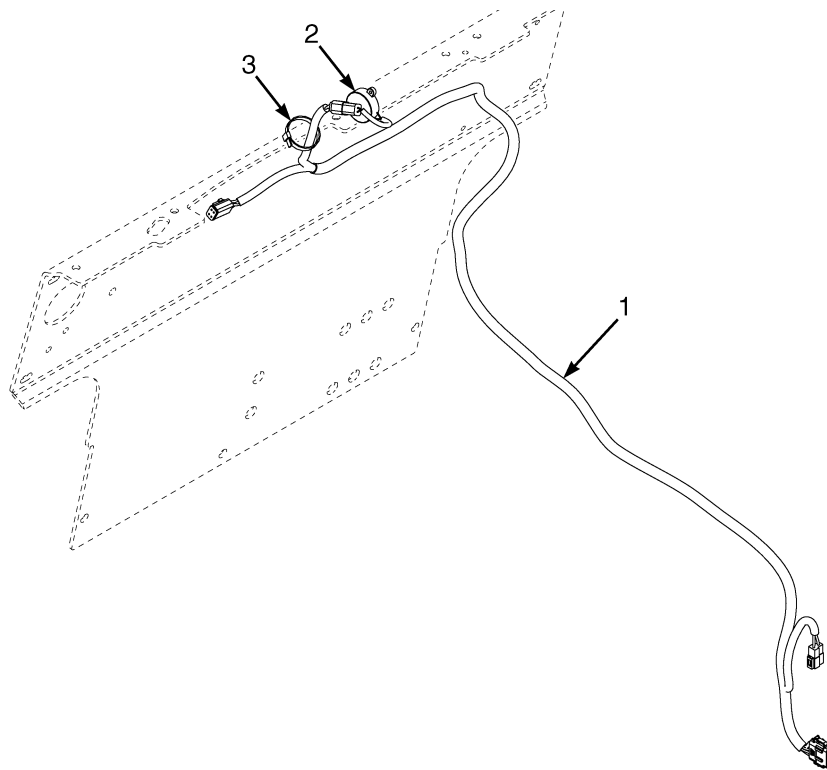
**TRACTION SPEED LIMITER
YANMAR DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	4154315	Bracket Wldmt (Actuator)	1
2	4635498	Actuator Assembly	1
2	3071815	Actuator	1
2	2039248	Connector Body	1
2	2314734	Terminal	2
3	292678	Lockwasher	4
4	302026	Screw	4
5	4650938	Driver	1
6	1527880	Capscrew	3
7	320161	Washer	2
8	2027716	Bushing	2
9	4154319	Lever	1
10	2089188	Cotter Pin	1
11	2027949	Ball Joint	3
12	1307884		
	1514429	Nut	3
13	2089837	Rod	1
14	2089840	Push Rod	1
14	4093489		
	320156	Washer	1
15	1593334	Nut	3
16	1476421	Washer	1
17	2027673	Pin	1
18	2089834	Bracket	1
19	2079547	Capscrew	2
20	2062961	Spring	1
21	4140361	Cable Clip	3
22	1543842	Clamp (Base)	1
23	4093489		
	320156	Washer	1
24	4141755	Bracket (Speed Controller)	1
25	2079548	Capscrew	2
26	4655901	Wire Harness (Speed Limiter) (☞ Figure 5-28).....	1
27	4636394	Cover	1
28	4616424	Lamp	1
28	1324308	Terminal	1
28	1324307	Sleeve	1
28	1324310	Terminal	1
28	1324309	Sleeve	1
29	1543698	Clamp (Swivel)	1
30	1566420	Nut (Foldover)	2
31	1480237	Nut , Foldover	1
32	4109993		
	1527879	Capscrew	1

TELEMETRY LEVEL 1 (FIGURE 13-10)
GSM AND WIFI

BP001024

ITEM	PART NO.	DESCRIPTION	QTY
1	4140273	Bracket (Telemetry Module)	1
2	4618252	Control Module (GSM Cellular - 3G Std Voltage)	1
2	4618237	Control Module (FM1 WiFi Standard Voltage)	1
3	4618313		
	4618315	Antenna (Dual GSM/GPS)	1
3	4618314	Antenna (WiFi)	1
4	1480237	Nut , Foldover	1
5	4109993		
	1527879	Capscrew	1
6	4045049	Screw	4
7	129563	Strap Clamp	1
8	4653293	Wire Harness (Telemetry FM1A and FM1B) (XIC) (☞ Figure 5-31).....	1
9	4145648	Relay	1

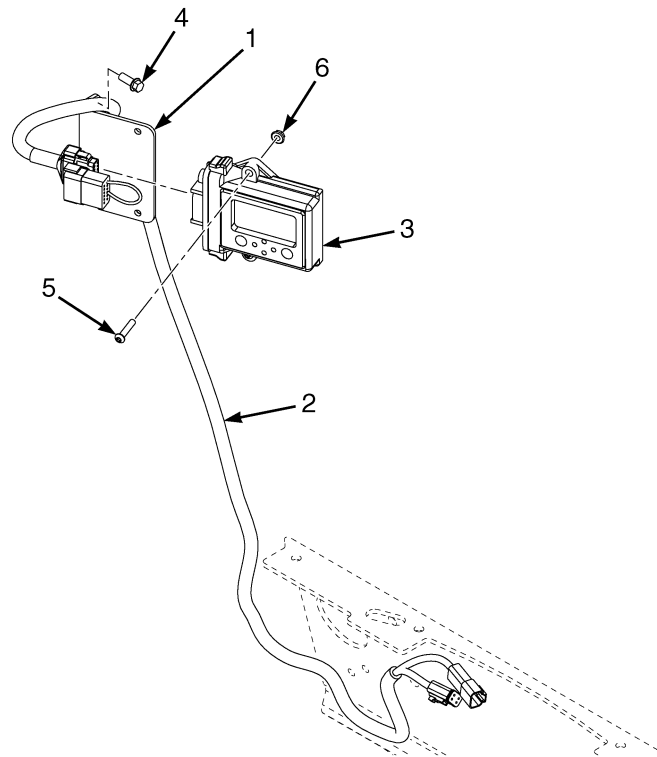
**TELEMETRY LEVEL 2 (FIGURE 13-11)
HARNESS GROUP**

BP001025

ITEM	PART NO.	DESCRIPTION	QTY
1	4641253	Wire Harness (Telemetry FM1B XIC)	1
2	1695284	Buzzer Assembly	1
3	129563	Strap Clamp	1
4	a	Card Reader (☞ Figure 13-13).....	1
	4628296	Adhesive (For Buzzer)	AR

FOOTNOTES:**a** Not illustrated

TELEMETRY LEVEL 3 (FIGURE 13-12) DISPLAY

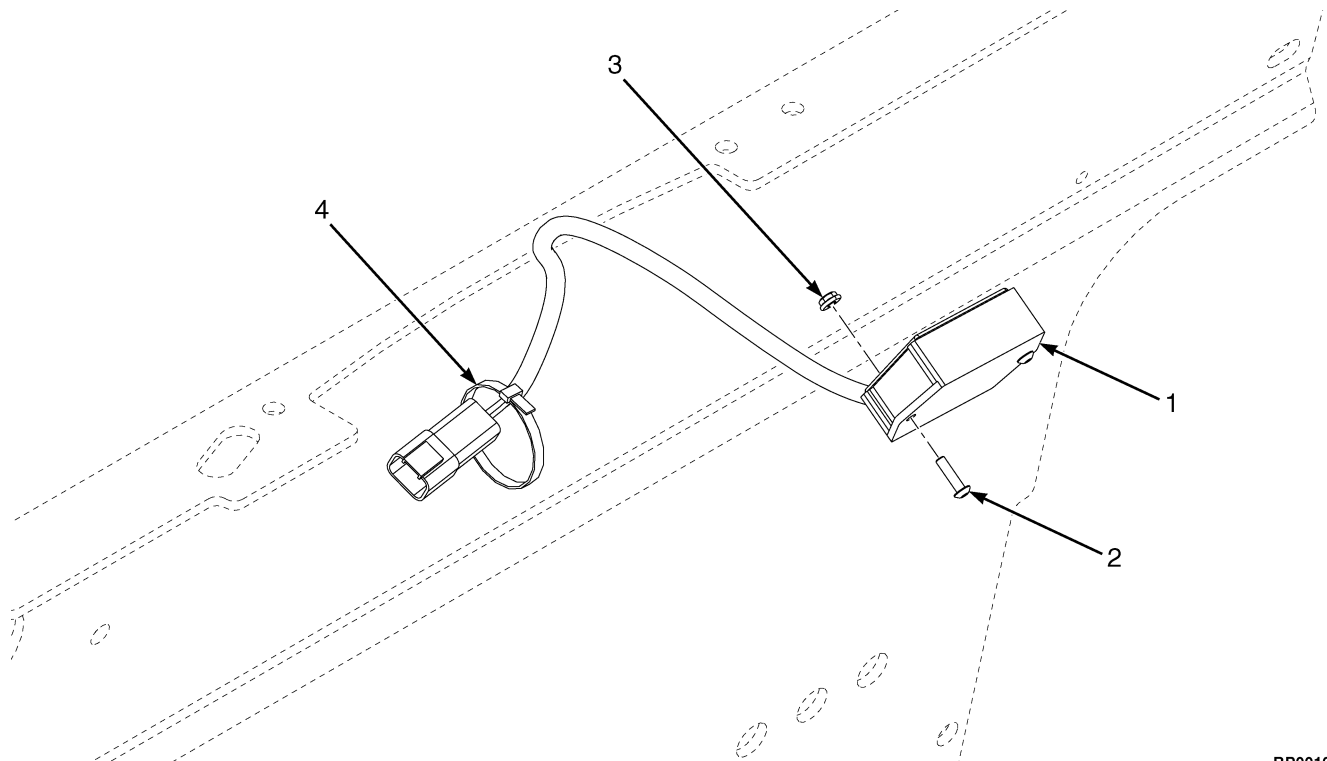


BP001026

ITEM	PART NO.	DESCRIPTION	QTY
1	4618293	Bracket (FM2 Mount)	1
2	4641250	Wire Harness (Telemetry FM2A XIC)	1
3	4618224	Display (FM2) - Hyster	1
4	1527877	Capscrew	2
5	2071261	Capscrew	2
6	1307884	Nut	2
7	a 1531001	Insert	2
8	a	Card Reader (☞ Figure 13-13).....	1

FOOTNOTES:

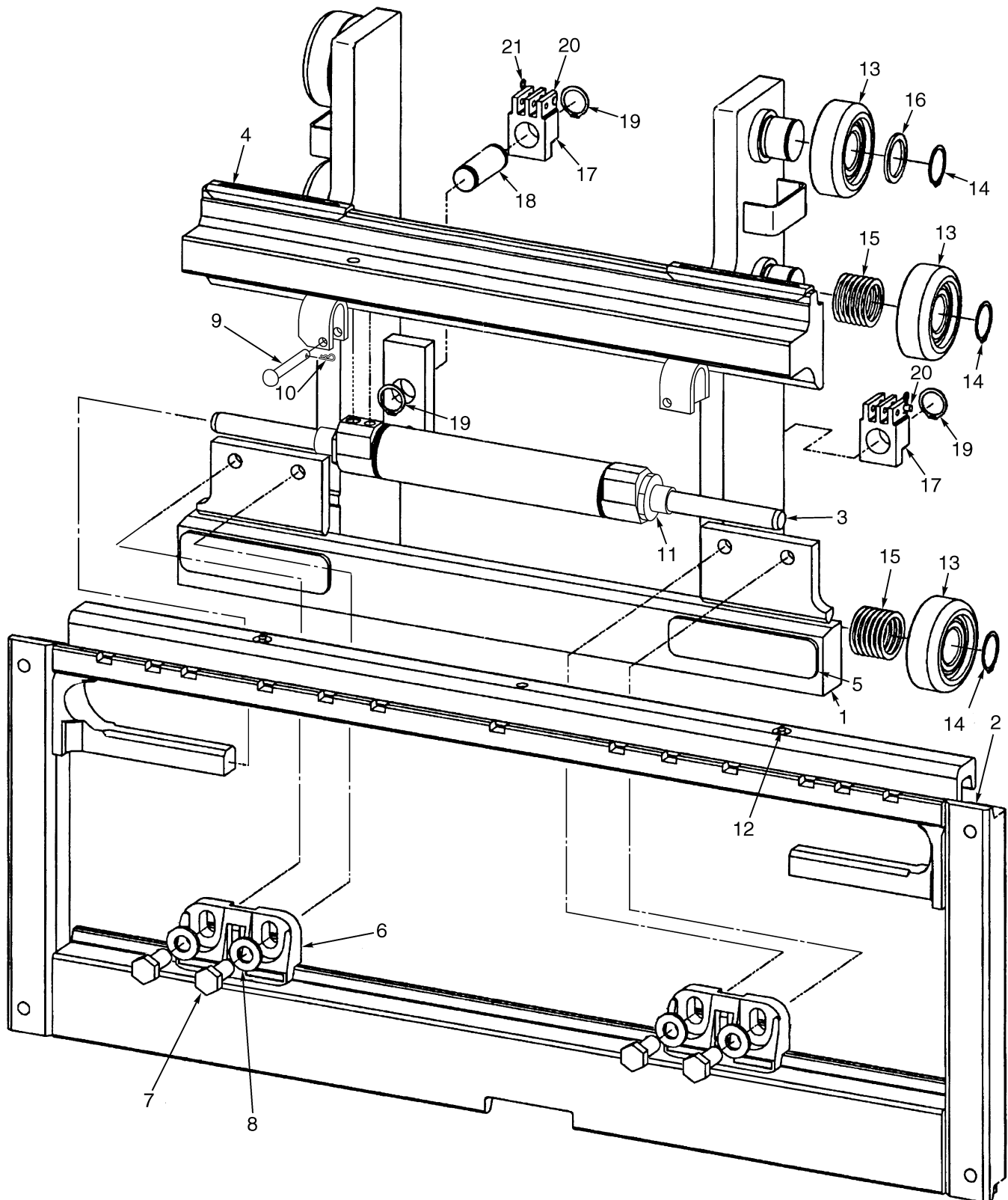
a Not illustrated

**TELEMETRY (FIGURE 13-13)
CARD READER**

BP001027

ITEM	PART NO.	DESCRIPTION	QTY
1	4618303	Card-ID Reader (ISO-Prox)	1
1	4618304	Card-ID Reader (HID Standard Prox)	1
1	4618305	Card-ID Reader (IClass/MIFARE Prox)	1
2	4044956	Capscrew	2
3	1549398	Nut	2
4	137852	Strap Clamp	1

INTEGRAL SIDE-SHIFT CARRIAGE (FIGURE 13-14) TWO STAGE LIMITED FREE-LIFT



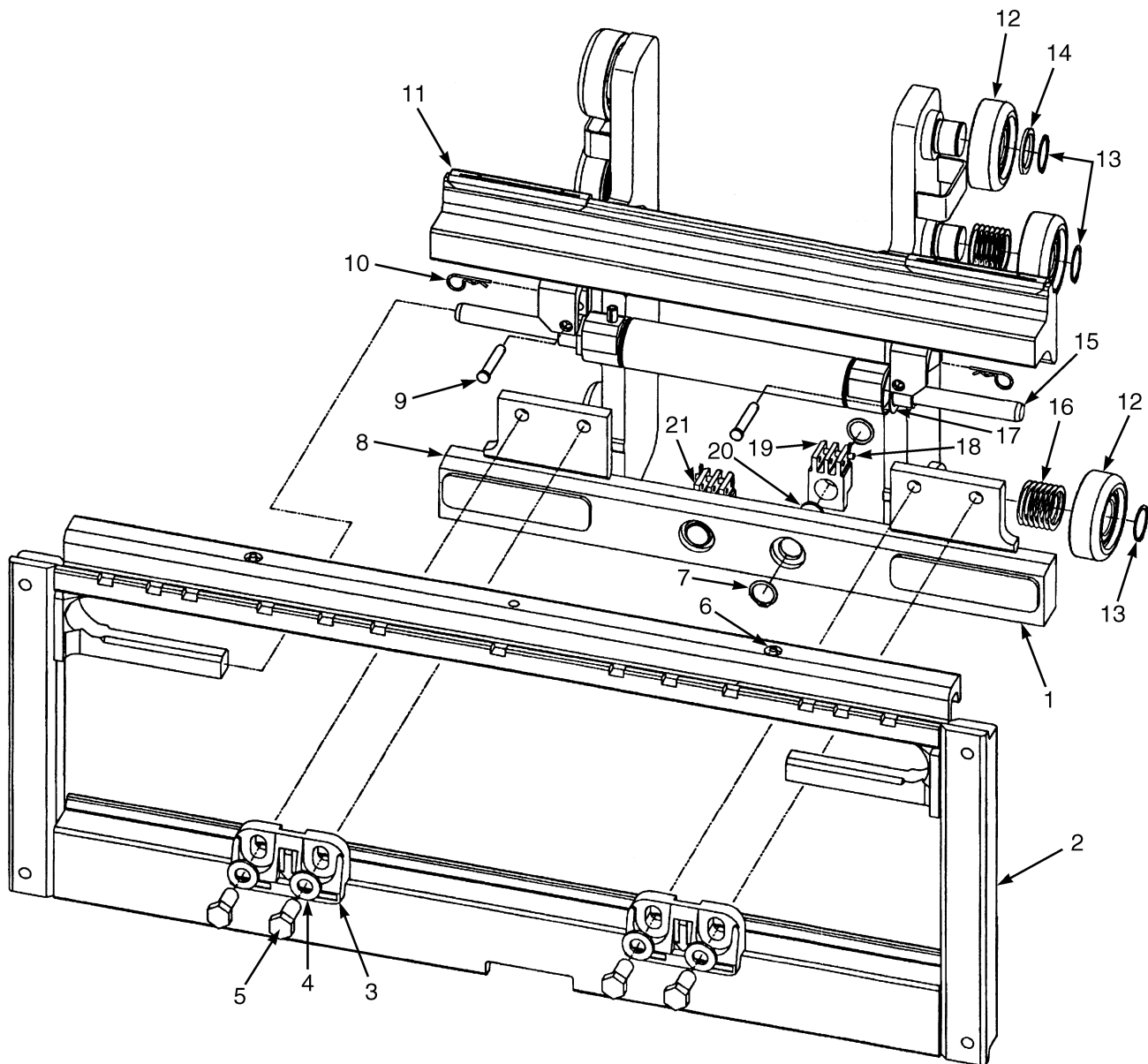
HP020343

**INTEGRAL SIDE-SHIFT CARRIAGE
TWO STAGE LIMITED FREE-LIFT****KEY:****A: H40-55XT****B: H60-XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4625591	Side-Shift Carriage (42 in.)	1	..
	4625598	Side-Shift Carriage (42 in.)	..	1
1	4065188	Carriage Wldmt	1	..
1	4065214	Carriage Wldmt (42 in. and 48 in.)	..	1
2	1489044			
	4033955	Frame (Outer) (42 in.)	1	..
2	1488975			
	4033960	Frame (Outer) (42 in.)	..	1
3	2043528	Sideshift Cylinder Assembly (☞Figure 13-18).....	1	..
3	2043529	Sideshift Cylinder Assembly (☞Figure 13-18).....	..	1
4	2043531	Bearing Strip (Upper)	2	..
4	2043532	Bearing (Upper)	..	2
5	2043533	Bearing Strip (Lower)	2	..
5	2043534	Bearing (Lower)	..	2
6	2043530			
	4611363	Hook	2	2
7	1581833	Capscrew	4	4
8	1581854	Washer	4	4
9	1401746	Pin	2	2
10	18832	Cotter Pin	2	2
11	1498326	Shim	3	3
12	16041	Grease Fitting	2	2
13	1345219	Load Roller ("B") (111.48/111.22)	6	6
14	12891	Snap Ring	6	6
14	386422	Snap Ring (Optional)	6	6
15	1345263	Shim (0.020 in.)	28	28
16	366116	Spacer	2	2
17	1369345	Chain Anchor (Dual Hole)	2	..
17	1504010	Chain Anchor (Single Hole) (Optional)	2	..
17	1369344	Chain Anchor (Dual Hole)	..	2
17	1504012	Chain Anchor (Single Hole) (Optional)	..	2
18	1353408	Pin	2	2
19	131358	Snap Ring	4	4
20	1514866	Pin	2	2
21	15211	Cotter Pin	2	2
	a 4611880	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	1	..
	a 4611882	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	..	1

FOOTNOTES:**a** Not Illustrated

INTEGRAL SIDE-SHIFT CARRIAGE (FIGURE 13-15) THREE STAGE FULL FREE-LIFT



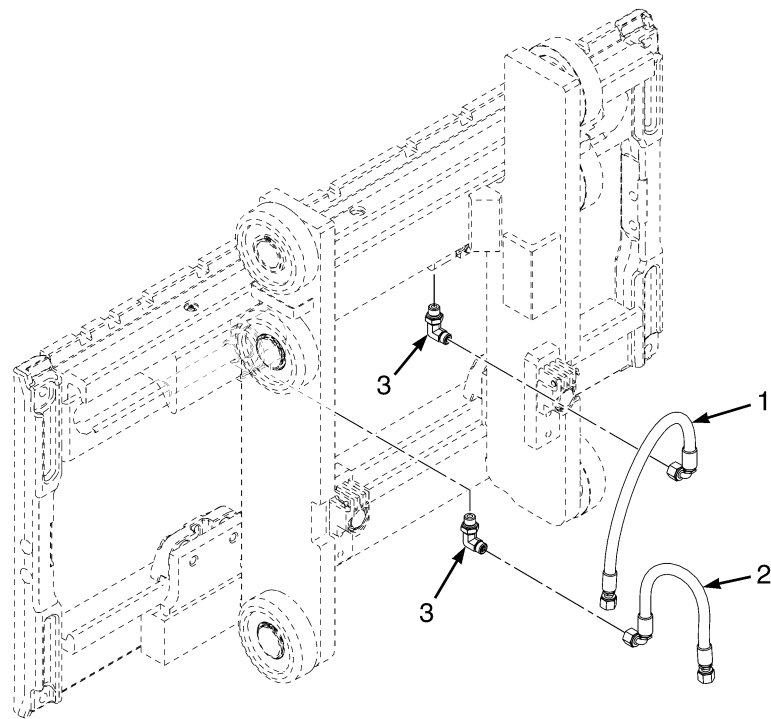
HP020344

**INTEGRAL SIDE-SHIFT CARRIAGE
THREE STAGE FULL FREE-LIFT****KEY:****A: H40-55XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	4617799	Side-Shift Carriage (42 in.)	1	..
	4617798	Side-Shift Carriage (42 in.)	..	1
1	4046434	Carriage Wldmt (42 in. and 48 in.) (Inner)	1	..
1	4082004	Plate (Hose)	1	..
1	4082006	Plate (Hose)	..	1
2	1489011			
	4033955	Frame (Outer) (42 in.)	1	..
2	1488975			
	4033960	Frame (Outer) (42 in.)	..	1
3	2043530			
	4611363	Hook	2	2
4	1581854	Washer	4	4
5	1581833	Capscrew	4	4
6	16041	Grease Fitting	2	2
7	131358	Snap Ring	4	4
8	2043533	Bearing Strip (Lower)	2	..
8	2043534	Bearing (Lower)	..	2
9	1401746	Pin	2	2
10	18832	Cotter Pin	2	2
11	2043531	Bearing Strip (Upper)	2	..
11	2043532	Bearing (Upper)	..	2
12	1333399	Load Roller ("B") (3.63 in./3.62 in.)	6	6
13	58901	Snap Ring	6	6
14	366115	Spacer	2	2
15	2043528	Sideshift Cylinder Assembly (☞Figure 13-18).....	1	..
15	2043529	Sideshift Cylinder Assembly (☞Figure 13-18).....	..	1
16	129387	Shim (0.020 in.)	28	28
17	1498326	Shim	3	3
18	1514866	Pin	2	2
19	1369345	Chain Anchor (Dual Hole)	2	..
19	1504010	Chain Anchor (Single Hole) (Optional)	2	..
19	1369344	Chain Anchor (Dual Hole)	..	2
19	1504012	Chain Anchor (Single Hole) (Optional)	..	2
20	317735	Pin	2	2
21	15211	Cotter Pin	2	2
	a 1374797	Snap Ring	6	6
	a 1345216	Stubshaft	6	6
	a 4611880	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	1	..
	a 4611882	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	..	1

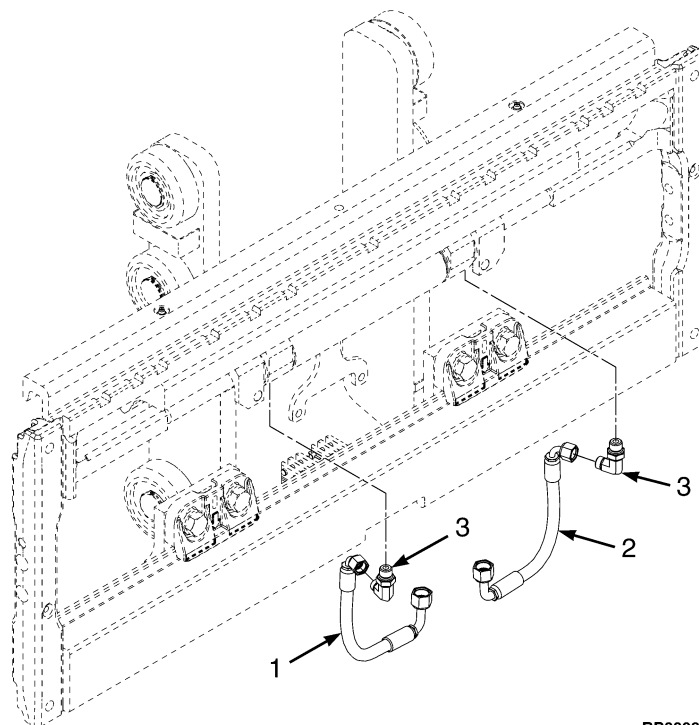
FOOTNOTES:**a** Not Illustrated

INTEGRAL SIDE-SHIFT HYDRAULIC HOSES (FIGURE 13-16)
TWO STAGE LIMITED FREE-LIFT



BP000832

ITEM	PART NO.	DESCRIPTION	QTY
1	4626625	Hose Assy	1
2	4626626	Hose Assy	1
3	1487059	Fitting	2

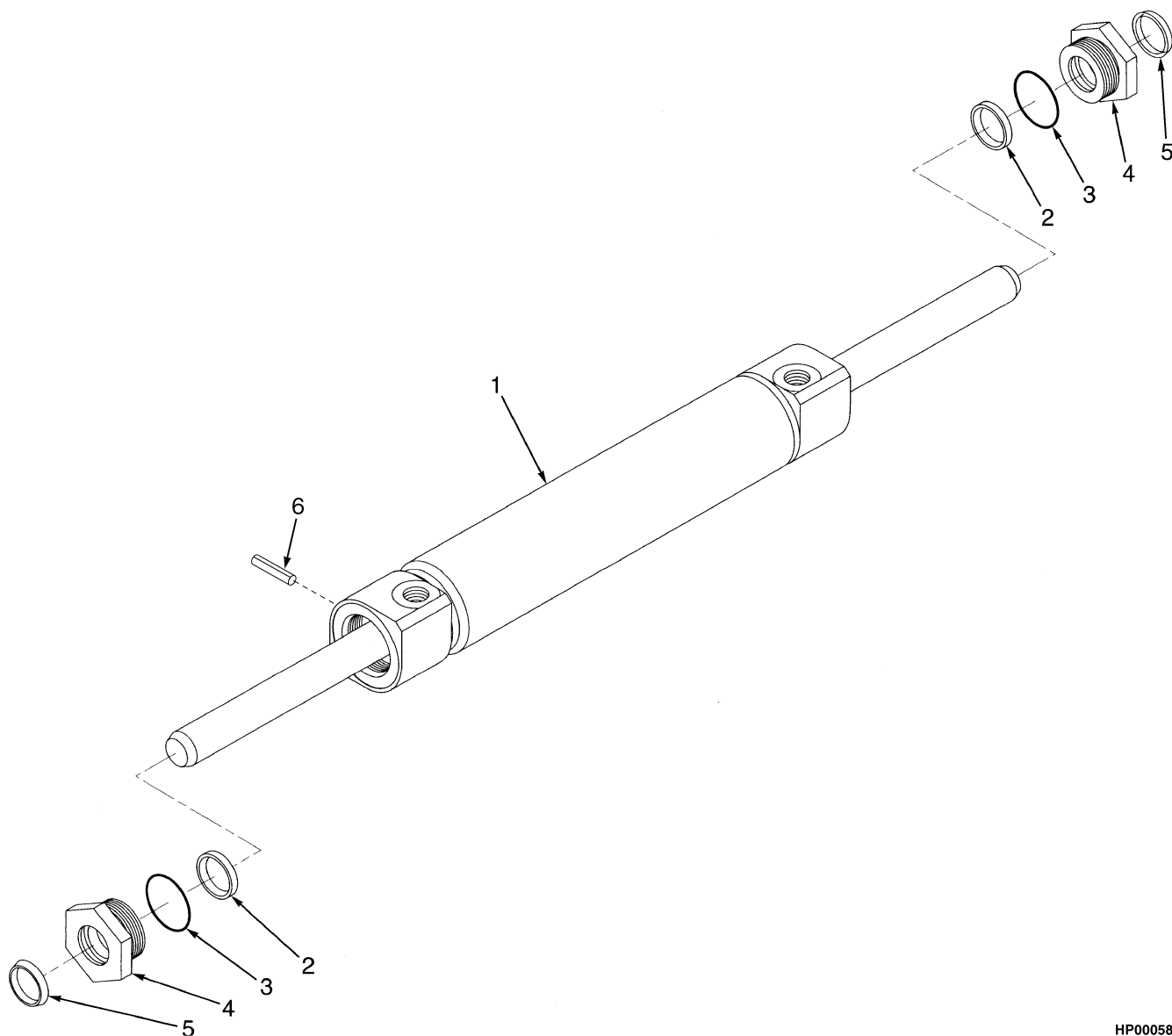
INTEGRAL SIDE-SHIFT HYDRAULIC HOSES (FIGURE 13-17)
THREE STAGE FULL FREE LIFT

BP000833

KEY:**A: H40-55XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4623988	Hose Assy	1	..
1	4623990	Hose Assy	..	1
2	4623989	Hose Assy	1	..
2	4623991	Hose Assy	..	1
3	1487059	Fitting	2	2

INTEGRAL SIDE-SHIFT CYLINDER (FIGURE 13-18)

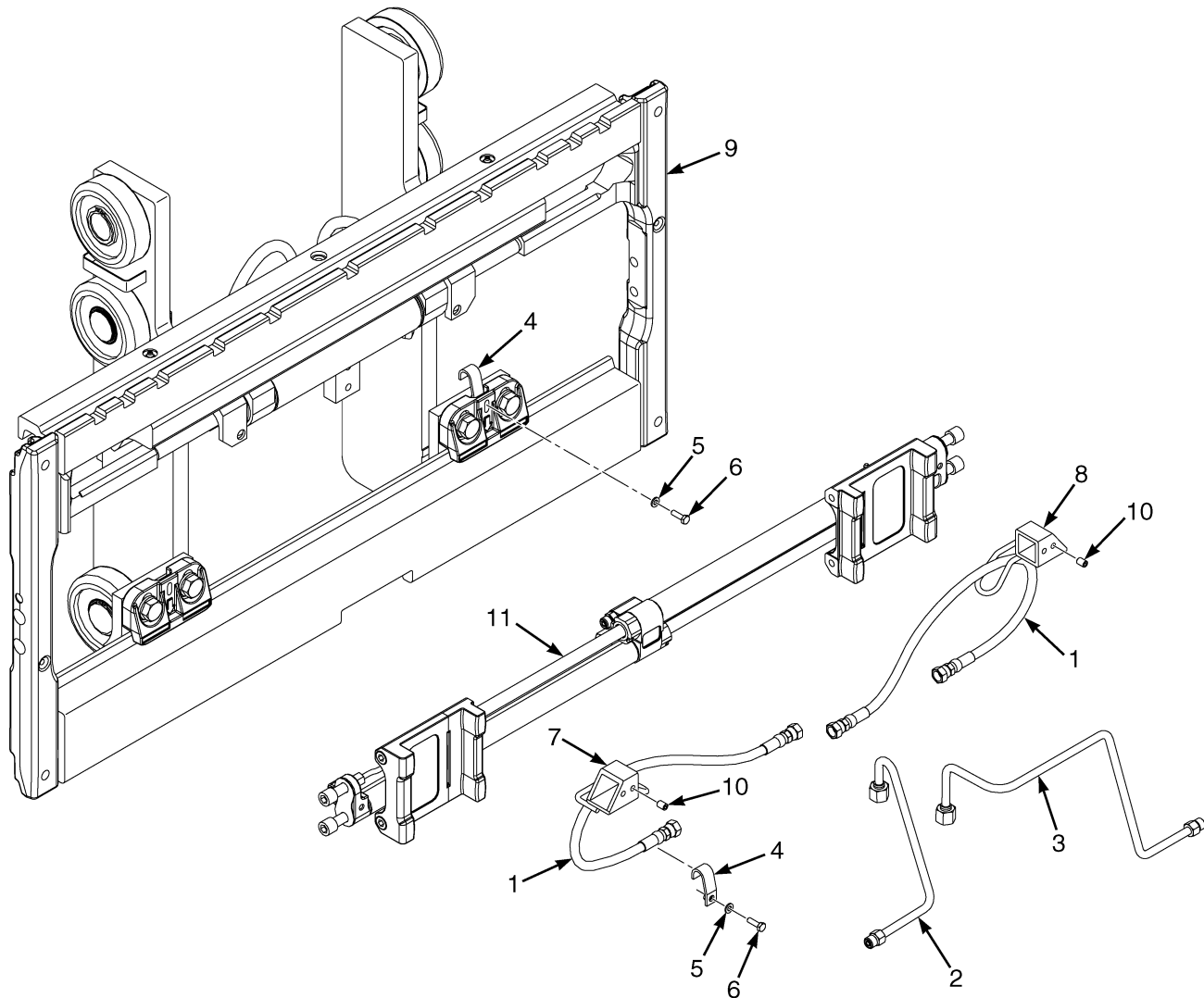


HP000581

INTEGRAL SIDE-SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2043528	Sideshift Cylinder Assembly (H40-50XT)	1
	2043529	Sideshift Cylinder Assembly (H60-70XT)	1
1	1489016	Sideshift 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 (Includes Items 2-3, 5)	1

INTEGRAL SIDE-SHIFT (FIGURE 13-19) FORK POSITIONER — TWO STAGE LIMITED FREE-LIFT



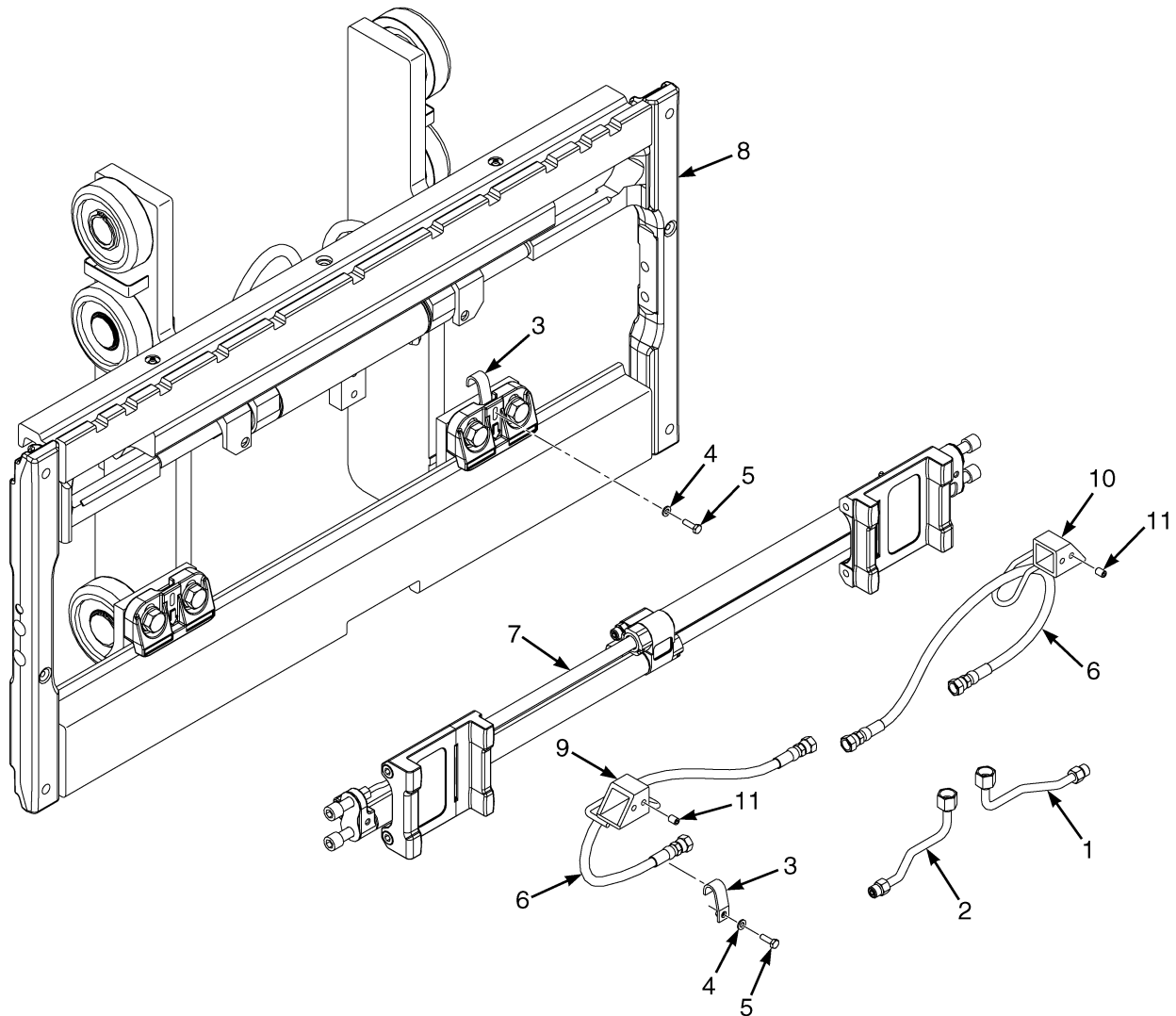
BP000831

INTEGRAL SIDE-SHIFT FORK POSITIONER – TWO STAGE LIMITED FREE-LIFT

KEY:**A: H40-55XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4618718			
	4611913	Hose Assy	2	2
2	4626768	Tube Assy	1	..
2	4626772	Tube Assy	..	1
3	4626769	Tube Assy	1	..
3	4626773	Tube Assy	..	1
4	4050817	Bracket Wldmt	2	2
5	1673754	Washer	2	2
6	1670032	Capscrew	2	2
7	4061318	Guide (Hose) (LH)	1	1
8	4061319	Guide (Hose) (RH)	1	1
9		Carriage Assembly (☞ Figure 13-14).....	1	1
10	4055634	Setscrew	4	4
11	4611880	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞ Figure 13-21).....	1	..
11	4611882	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞ Figure 13-21).....	..	1
11	4034634	Kit-Service Cylinder	1	1

INTEGRAL SIDE-SHIFT (FIGURE 13-20) FORK POSITIONER — THREE STAGE FULL FREE-LIFT



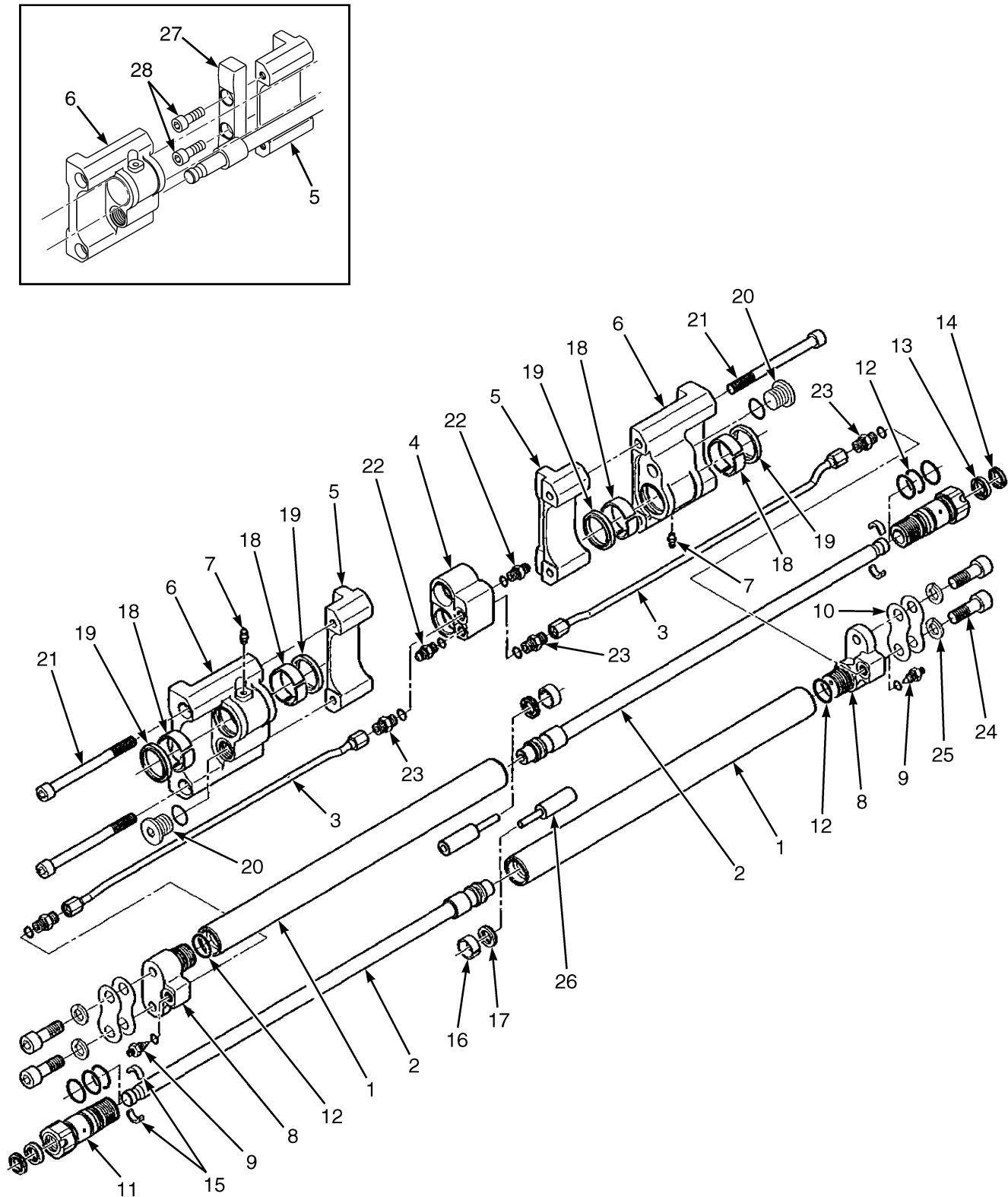
BP020071

INTEGRAL SIDE-SHIFT FORK POSITIONER – THREE STAGE FULL FREE-LIFT

KEY:**A: H40-55XT****B: H60XT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	4633850	Tube Assy (LH)	1	..
1	4633852	Tube Assy (LH)	..	1
2	4633851	Tube Assy (RH)	1	..
2	4633853	Tube Assy (RH)	..	1
3	4050817	Bracket Wldmt	2	2
4	1673754	Washer	2	2
5	1670032	Capscrew	2	2
6	4618718			
	4611913	Hose Assy	2	..
6	4622266	Hose Assy	..	2
7	4611880	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	1	..
7	4611882	Carriage , Fork Positioner (42 in.) (Fork Positioner) (☞Figure 13-21).....	..	1
7	4034634	Kit-Service Cylinder	1	1
7	4034635	Kit-Bearing	1	1
8		Carriage Assembly (☞Figure 13-17).....	1	1
9	4061319	Guide (Hose) (RH)	1	1
10	4061318	Guide (Hose) (LH)	1	1
11	4055634	Setscrew	4	4

FORK POSITIONER ASSEMBLY (FIGURE 13-21)



BP000920

FORK POSITIONER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	4611880	Carriage , Fork Positioner (42 in.) (H40-55XT)	1
	4611882	Carriage , Fork Positioner (42 in.) (H60-70XT)	1
1		Cylinder Shell	2
2		Cylinder Rod	2
3	4084993	Tube	2
4		Mainfold	1
5		Inner Carrier	2
6		Outer Carrier	2
7	4063703	Grease Fitting	1
8		Cylinder Head End	2
9	4133804	Restrictor Fitting	2
10	4084991	Shim	4
11		Retainer	2
12		O-Ring	8
13		Rod Seal	2
14		Rod Wiper	2
15		Keeper	4
16		Piston Wear Ring	2
17		Piston Seal	2
18		Composite Bearing	4
19		Wiper	4
20	4139422	Plug	2
21	4139423	Capscrew	4
22	4145044	Fitting	2
23	4063717	Fitting	4
24		Capscrew	4
25	4065036	Lockwasher	4
26		Piston Spacers	2
27	a 4084441	Spacer Bar (Class II)	2
28	a 4058427	Capscrew (Class II)	4
	4034634	Kit-Service Cylinder (Includes Items 12-14, 16-17)	1
	4034635	Kit-Bearing (Includes Items 18-19)	1

FOOTNOTES:**a** With 4" width Forks

[illegible]

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	12-23			3-5	1	4648640	3-31	18	4652944	10-6	3
4640928	12-17		4643832	2-7	1	4648665	10-3	30	4652945	10-6	4
	12-19			3-3	1	4648666	10-3	30	4652947	10-35	3
	12-23			3-5	1	4648667	10-3	30	4653154	4-2	7
4640929	12-17		4644284	13-3	3		10-5	20	4653293	5-71	
	12-19		4644343	2-5	2	4648969	6-7	19		13-14	8
	12-23			2-7	2		6-9	20	4653302	5-5	1
4640934	12-17		4644362	2-5	12	4649005	7-3	16		5-9	1
	12-19			2-7	12	4649006	7-3	18	4653303	5-3	1
	12-23		4644502	5-43	3	4649061	5-71	8		5-7	1
4641069	5-23	2		5-43	4		5-71	10	4653304	5-3	1
4641112	5-22	1		5-43	6	4649062	5-71	9		5-7	1
4641113	5-22	2		5-43	7	4649080	8-9	19	4653405	5-29	3
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4641162	4-28	9		5-45	3	4649082	8-9	19	4653525	1-17	16
4641167	4-28	10		5-45	4	4649083	8-9	20		5-39	
4641177	5-3	2		5-45	6	4649087	10-13		4653670	7-3	
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4641191	5-29	4		5-35		4649900	13-5	8		10-5	10
4641197	5-29	7	4644872	2-18		4650809	5-27	31	4654288	5-27	99
4641239	4-2	1		5-35		4650810	5-27	32	4654370	9-7	29
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4641248	13-10	7	4645088	8-9	1	4650883	1-25	7	4654501	10-35	7
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4641251	4-28	1	4645851	8-9	13	4650886	6-11	12	4655293	5-29	6
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NOTES

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

