

PARTS MANUAL

**H135-155XL
(G006)**

CUSTOMER EDITION

HYSTER

SECTIONS

1	FRAME
2	ENGINE ASSEMBLY
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4	ELECTRICAL SYSTEM
5	TRANSMISSION
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7	BRAKE SYSTEM
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This Parts Manual is divided into 13 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.

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ABBREVIATIONS QUICK REFERENCE SHEET

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

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

HOW TO USE THE ILLUSTRATED PARTS MANUAL

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

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

HYSTER UNIT CODE D001 NORTH AMERICA 06/2001

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5 →

1 →

2 →

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NUMERICAL INDEX

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SECTIONS

1 FRAME

2 ELECTRICAL SYSTEM

3

4

5 BRAKE/ACC

6

7 MAST-TWO STAGE

8 MAST-THREE STAGE

9 MAST-TWO STAGE

10

11

TRANSMISSION HOUSING
⇒ S/N D001H-2628

KEY:
A: Diesel
B: Gasoline and LPG

ITEM	PART NO.	DESCRIPTION	QTY	A	B
1	2022547	Transmission	1	1	1
2	2023329	Transmission	2	2	2
3	2021670	Case	4	4	4
4	2023418	Bearing Cap	1	1	1
5	296426	Washer	2	2	2
6	293991	Bolt	2	2	2
7	2021390	Cover	4	4	4
8	1371656	Colter Pin	1	1	1
9	2021915	O-Ring	4	4	4
10	2021329	Plug	22	22	22
11	2021675	Housing	39	39	39
12	2021336	Pin	1	1	1
13	287860	Bolt	1	1	1
14	292682	Lockwasher	8	8	8
15		Hydraulic Pump	1	1	1
16		⇒ Figure 5-3	8	8	8
17	2021345	Gasket	1	1	1
18	214364	Bolt	1	1	1
19	296418	Washer	1	1	1
20	2021388	Temperature Switch	1	1	1
21	2021389	Breather	9	9	9
22	2021383	Dipstick	2	2	2
23	292515	Bolt	3	3	3
24	136692	Nut	3	3	3
25	292527	Cap screw	4	4	4
26	292531	Lockwasher	4	4	4
27	292583	Bolt	1	1	1
28	293637	Washer	1	1	1
29	296420	Transmission Kit (Includes item 7)	1	1	1
30	996403	Transmission Kit (Includes item 14)	1	1	1
31	996405	Transmission Kit (Includes item 14)	1	1	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.

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See Service Manual for service procedures.

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HOW TO FIND THE DESIRED PART NUMBER

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

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

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

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

WHEN THE PART NUMBER IS KNOWN:

5. Use the Numerical Index (Page 13-1) to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

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

6. Five periods in the PART NO. column (.) indicate that the part is either *Not Serviced Separately* or there is a reference to another figure. A figure reference is denoted by a pointing hand followed by a figure number in the DESCRIPTION column (☞ Figure 10)
7. Keys are used to show two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C", "D", or "E" and the corresponding quantity column to find the required parts. Two periods in the QTY column (..) indicate that the part is not used for that assembly.
8. Indented descriptions under the DESCRIPTION column are used to indicate assemblies and subparts of assemblies. In the example on the

previous page, *BEARING CAP* (Item 2) is a subpart of the major assembly *CASE*.

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

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

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

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

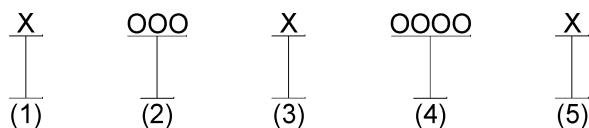
- **D/B 3/00**
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00** →
Indicates that a change occurred sometime within that month for the item affected.
- D/B 3/00 ↔ D/B 4/00**
Indicates a range of production dates of the item affected.

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

ORDERING PARTS:

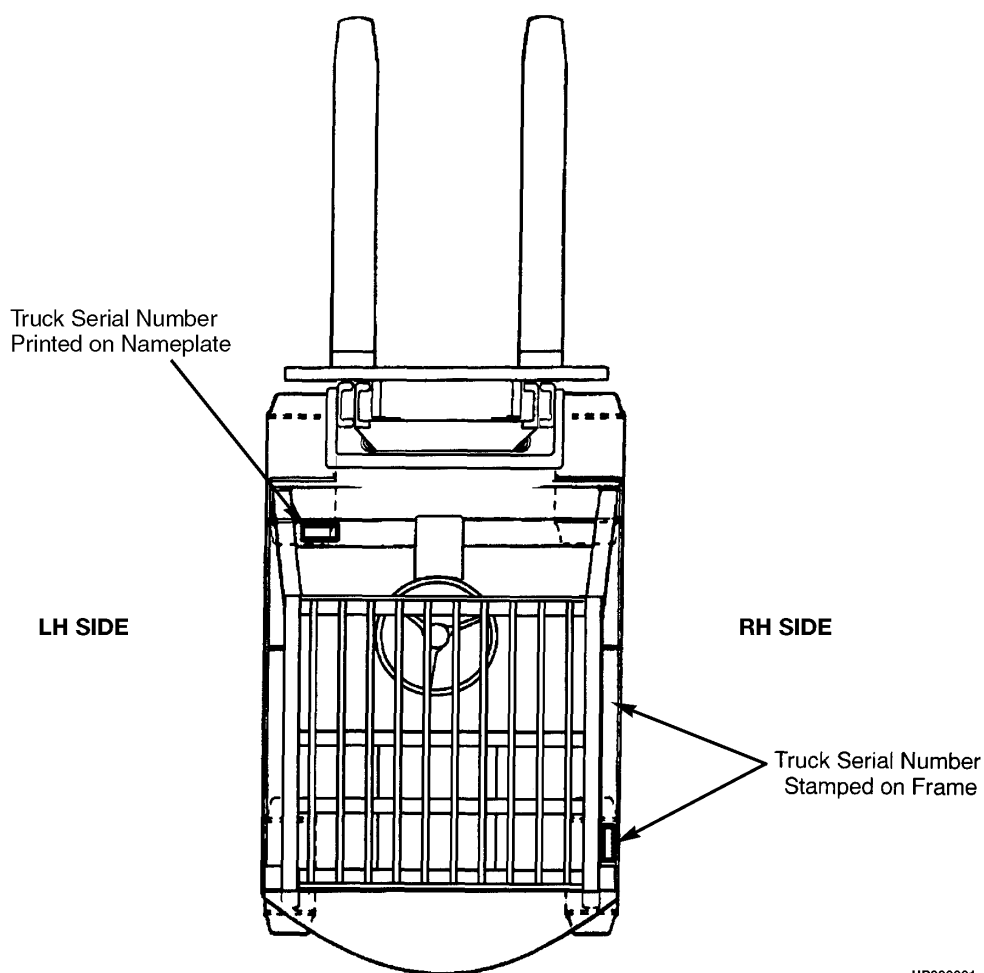
When ordering replacement parts, give the unit serial number, part number, name of part and quantity required.

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

IDENTIFICATION OF TRUCK SERIAL NUMBERS

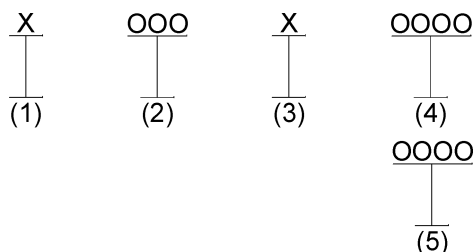
- (1) and (2) The first letter and three numbers indicate the truck unit code.
- (3) The second letter indicates the plant of manufacture.
- (4) The four or five digit number indicates the production sequence number of the truck.
- (5) The final letter indicates the year of manufacture starting with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

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



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

IDENTIFICATION OF MAST SERIAL NUMBERS

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

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

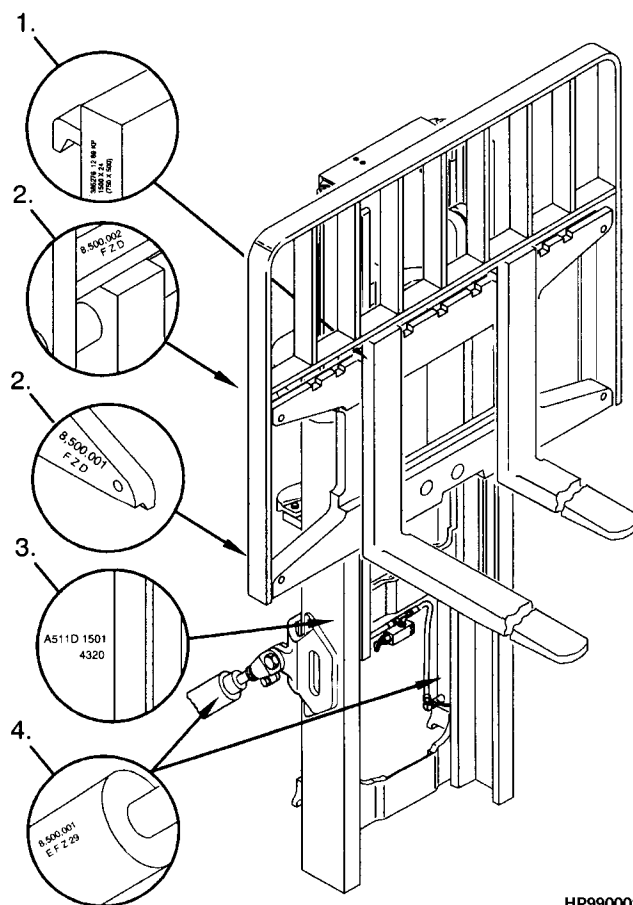
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

LIFT EQUIPMENT IDENTIFICATION

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

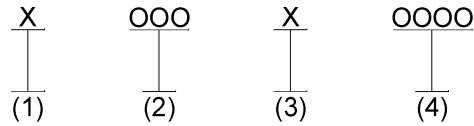
Always refer to the group, serial, or part number when ordering service parts.

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



HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS

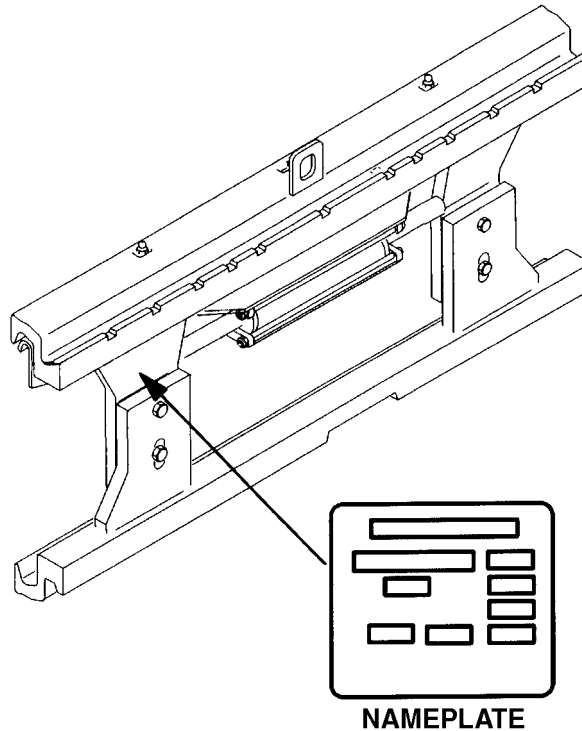


(1) and (2) The first letter and three numbers indicate the attachment unit code.

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

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

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



NAMEPLATE

HP990003

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

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

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

PUBLICATIONS

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

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

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

PUBLICATION	HYSTER PART NUMBER
Operating Manual.....	897364
Service Manual (Complete).....	1559725
Parts Manual.....	1559719

This image shows a full page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing or drawing. There are no margins, text, or other markings on the page.

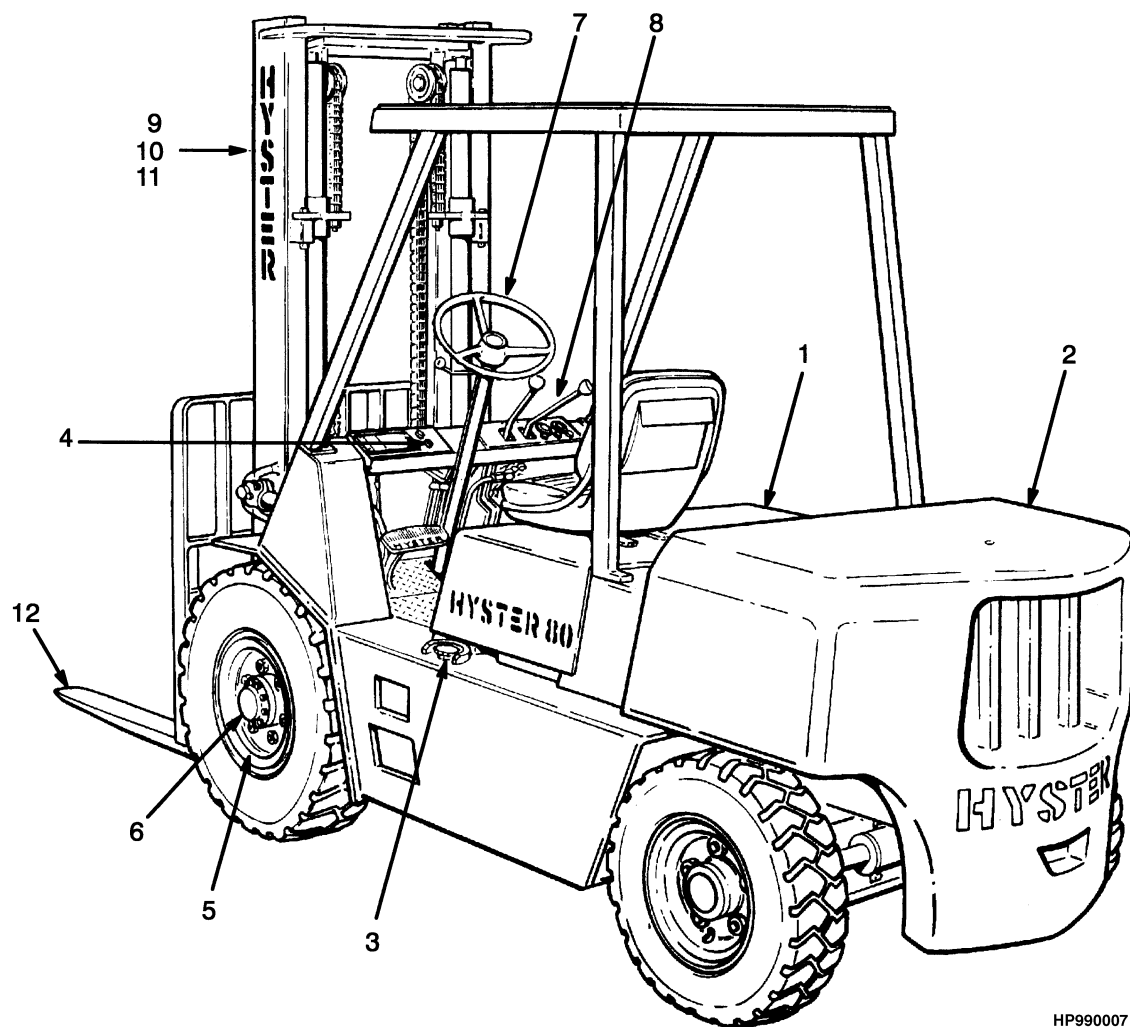
1

FRAME

SECTION 1
FRAME

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GENERAL TRUCK (FIGURE 1-1)

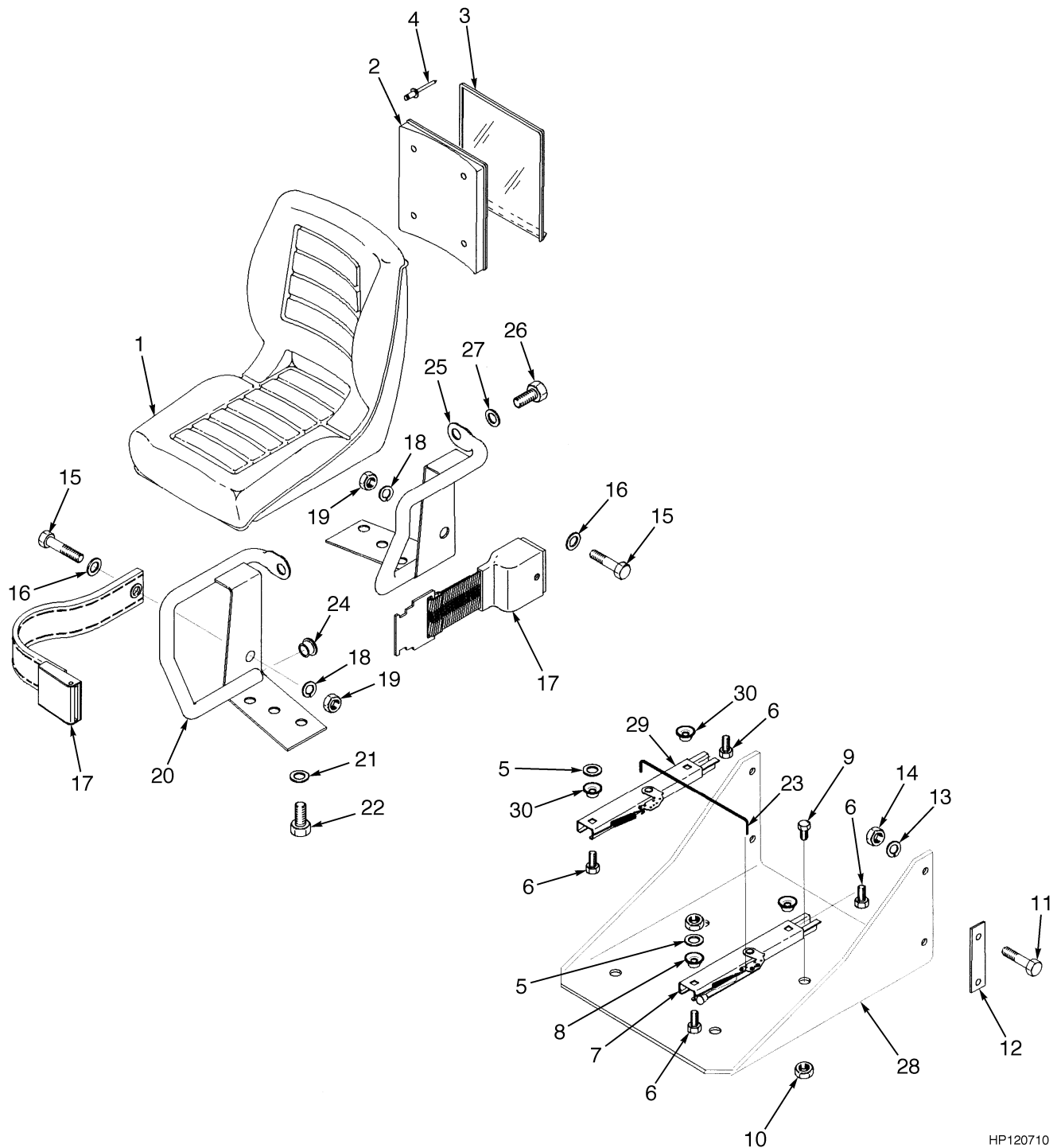


HP990007

ITEM	PART NO.	DESCRIPTION	QTY

ITEM	PART NO.	DESCRIPTION	QTY
1		Frame (☞ Figure 1-8).....	1
2		Engine Assembly	1
3		Fuel Assembly (☞ Figure 3-5).....	1
4		Electrical System (☞ Figure 4-1).....	1
5		Transmission (☞ Figure 5-1).....	1
6		Brake System (☞ Figure 7-5).....	1
7		Steering System (☞ Figure 6-1).....	1
8		Hydraulic System (☞ Figure 8-1).....	1
9		Mast-Two Stage Limited Free-Lift (☞ Figure 9-1).....	1
10		Mast-Three Stage Full Free-Lift (☞ Figure 10-1).....	1
11		Optional Equipment (☞ Figure 11-1).....	1
12		Fork (☞ Figure 1-12).....	1

NON-SUSPENSION SEAT (FIGURE 1-2) (→ S/N G006V03427C)



HP120710

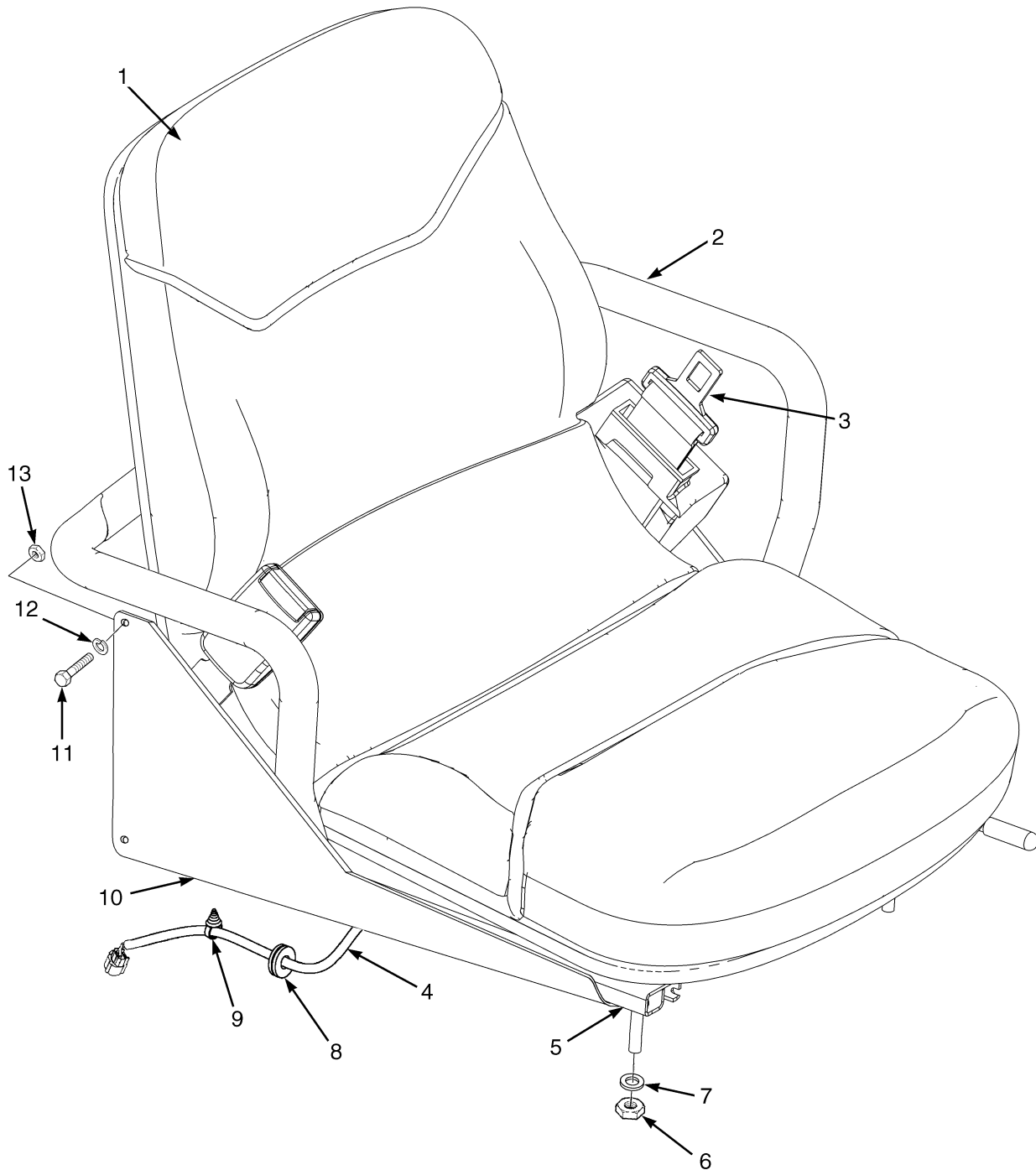
NON-SUSPENSION SEAT

(→ S/N G006V03427C)

ITEM	PART NO.	DESCRIPTION	QTY
1	377901	Seat-Non Suspension (Vinyl)	1
1	1303037	Seat-Non Suspension (With Operator Restraint)	1
1	364911	Seat-Non Suspension	1
2	335988	Information Case (Information Case)	1
3	335991	Cover (Information Case) (Information Case)	1
4	222029	Rivet	4
5	221733	Washer	2
6	364914	Capscrew	4
7	335553	Seat Rail	1
8	204114	Spacer	4
9	16836	Capscrew	4
10	145639	Locknut	4
11	287854	Capscrew	4
12	385085	Spacer	2
13	292682	Lockwasher	4
14	136692	Nut	4
15	379199	Capscrew	2
16	379697	Washer	2
17	1374750	Seat Belt	1
18	379697	Washer	4
19	379698	Nut	4
20	364807	Hip Restraint (RH)	1
21	18515	Washer	4
22	18727	Screw	4
23	1300107	Rod	1
24	364854	Plug	2
25	364808	Hip Restraint (LH)	1
26	379197	Capscrew	2
27	379198	Washer	2
28	a 1479677	Seat Pan	1
28	b 1479678	Seat Pan	1
29	383116	Seat Rail	1
30	204114	Spacer	4

FOOTNOTES:**a** With Cab**b** Without Cab

NON-SUSPENSION SEAT (FIGURE 1-3) (S/N G006V03428C →)

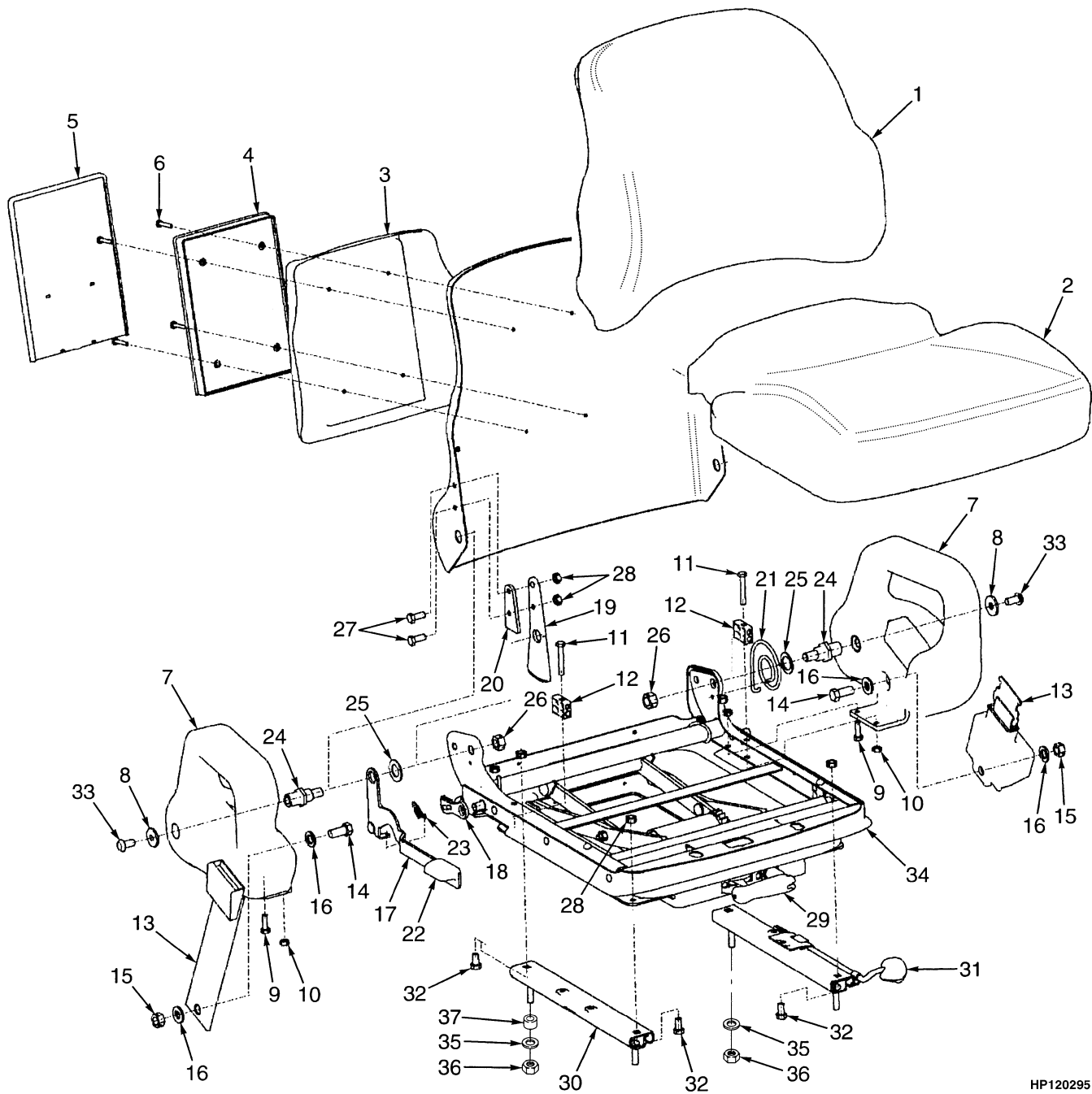


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NON-SUSPENSION SEAT
(S/N G006V03428C →)

ITEM	PART NO.	DESCRIPTION	QTY
	1593433	Seat-Non Suspension (Vinyl)	1
1	1563351	Kit-Seat Cushion (Vinyl)	1
1	1563215	Sensor (Operator Presence) (Not Illustrated)	1
2	1563217	Hip Restraint (RH) (RH)	1
2	1563216	Hip Restraint (LH) (LH)	1
3	1598504	Kit-Seat Belt	1
4	1591652	Wire Harness	1
5	1459173	Kit-Seat Rail	1
6	145639	Locknut	4
7	15175	Lockwasher	4
8	1561015	Grommet	4
9	1509890	Clip	1
10	1607247	Seat Pan (With Cab)	1
10	1607246	Seat Pan (With Overhead Guard)	1
11	287854	Capscrew	4
12	292682	Lockwasher	4
13	136692	Nut	4

FULL SUSPENSION SEAT (FIGURE 1-4) SHEET 1 OF 2 (→ S/N G006V03427C)



HP120295

FULL SUSPENSION SEAT
SHEET 1 OF 2 (→ S/N G006V03427C)

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat-Full Suspension (Cloth)	1
	1468472	Seat-Full Suspension (Vinyl)	1
1	1470152	Seat Cushion (Back Cushion, Vinyl)	1
1	1470153	Seat Cushion (Back Cushion, Cloth)	1
2	1494077	Seat Cushion (Cloth)	1
2	1494076	Seat Cushion (Vinyl)	1
2	1467514	Switch (Seat)	1
2	1467515	Wire Harness	1
3		Riser	1
4		Box	1
5		Cover	1
6		Screw	4
7		Hip Restraint (RH)	1
7		Hip Restraint (LH)	1
8		Washer	2
9		Bolt	2
10		Nut	4
11		Bolt	2
12		Block	2
13		Seat Belt	1
14		Bolt	2
15		Nut	2
16		Washer	4
17		Handle	1
18		Latch	1
19		Bracket	1
20		Spacer	1
21		Spring	1
22		Knob	1
23		Spring Extension	1
24		Pivot	2
25		Washer	2
26		Nut	2
27		Bolt	2
28		Nut	6
29	1470163	Kit-Weight Adjuster	1
29	1584631	Knob	1
29	1600126	Handle	1
30		Slide (RH)	1
31		Slide (LH)	1
32		Bolt	4
33		Screw	2
34	1470159	Kit-Suspension	1
35	15175	Lockwasher	4
36	145639	Locknut	4
37	1484643	Spacer	4
	1470155	Information Case (Kit)	1
	1470156	Hip Restraint (RH)	1
	1470157	Hip Restraint (LH)	1

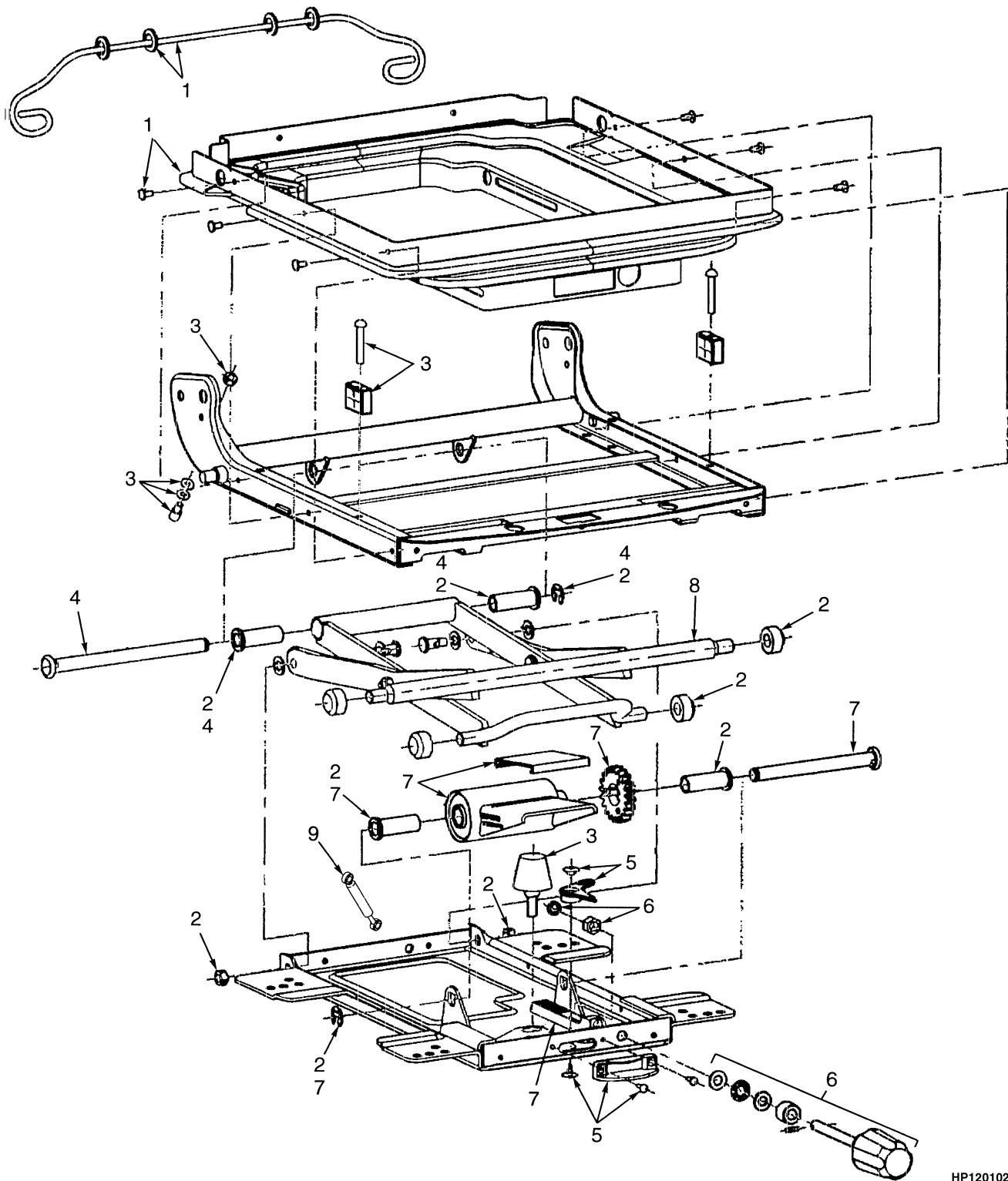
FULL SUSPENSION SEAT
SHEET 1 OF 2 (→ S/N G006V03427C)

ITEM	PART NO.	DESCRIPTION	QTY
	1470158	Kit-Seat Belt	1
	1470161	Kit-Seat Rail	1
	1470164	Kit-Recliner	1
	893818	Wire (Not Illustrated)	1

NOTES

[illegible]

FULL SUSPENSION SEAT (FIGURE 1-5) SHEET 2 OF 2 (→ S/N G006V03427C)

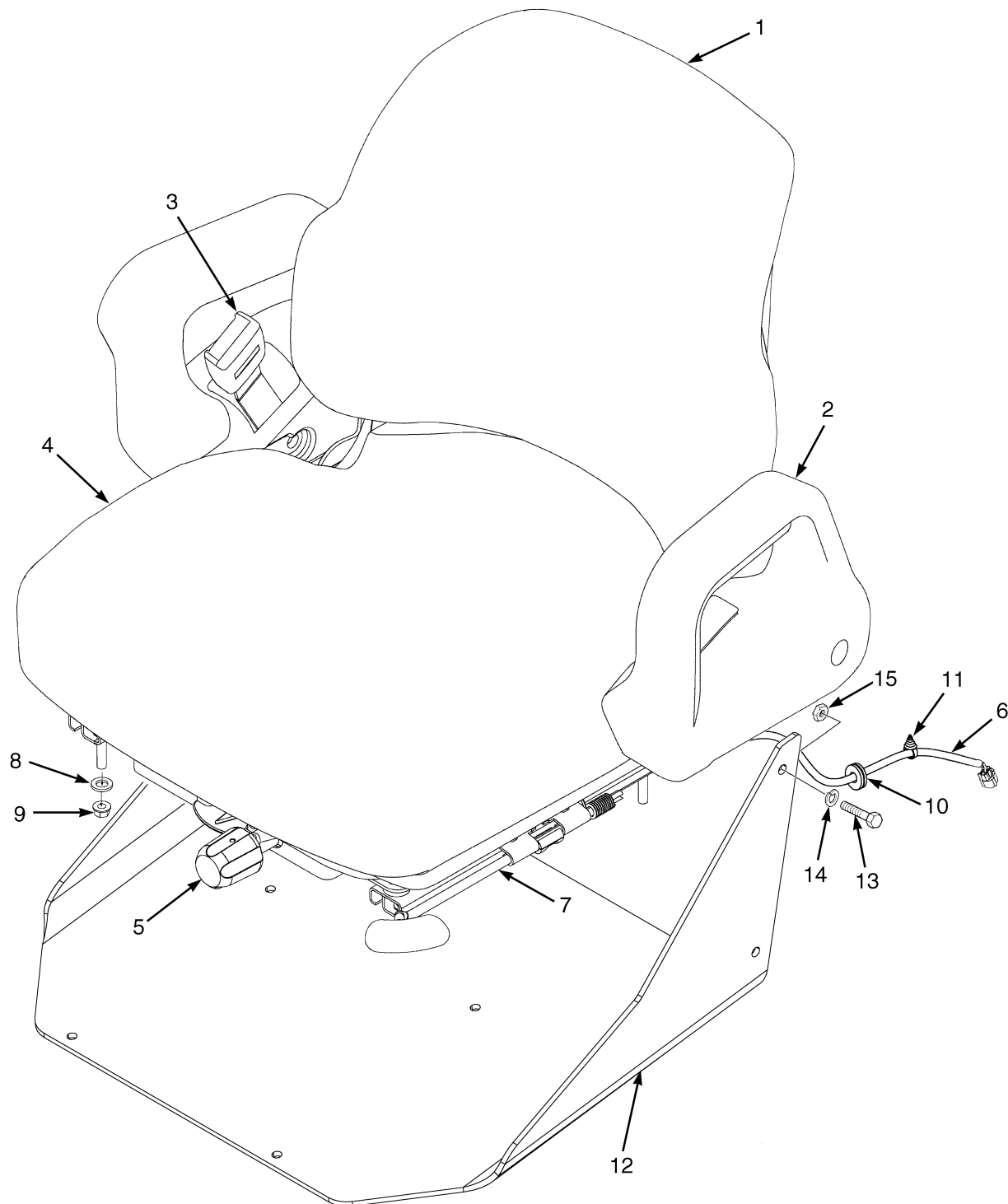


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FULL SUSPENSION SEAT
SHEET 2 OF 2 (→ S/N G006V03427C)

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat-Full Suspension (Cloth)	1
	1468472	Seat-Full Suspension (Vinyl)	1
1	1467523	Kit-Boot	1
2	1467524	Kit-Bearing	1
3	1467525	Kit-Bumper	1
4	1467526	Kit-Shaft and Bearing	1
5	1467527	Kit-Weight Adjuster	1
6	1467531	Knob	1
7	1467529	Kit-Spring	1
8	1470160	Scissor	1
9	1483828	Kit-Gas Spring (Mounted to the rear of the seat)	1

FULL SUSPENSION SEAT (FIGURE 1-6) (S/N G006V03428C →)



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FULL SUSPENSION SEAT

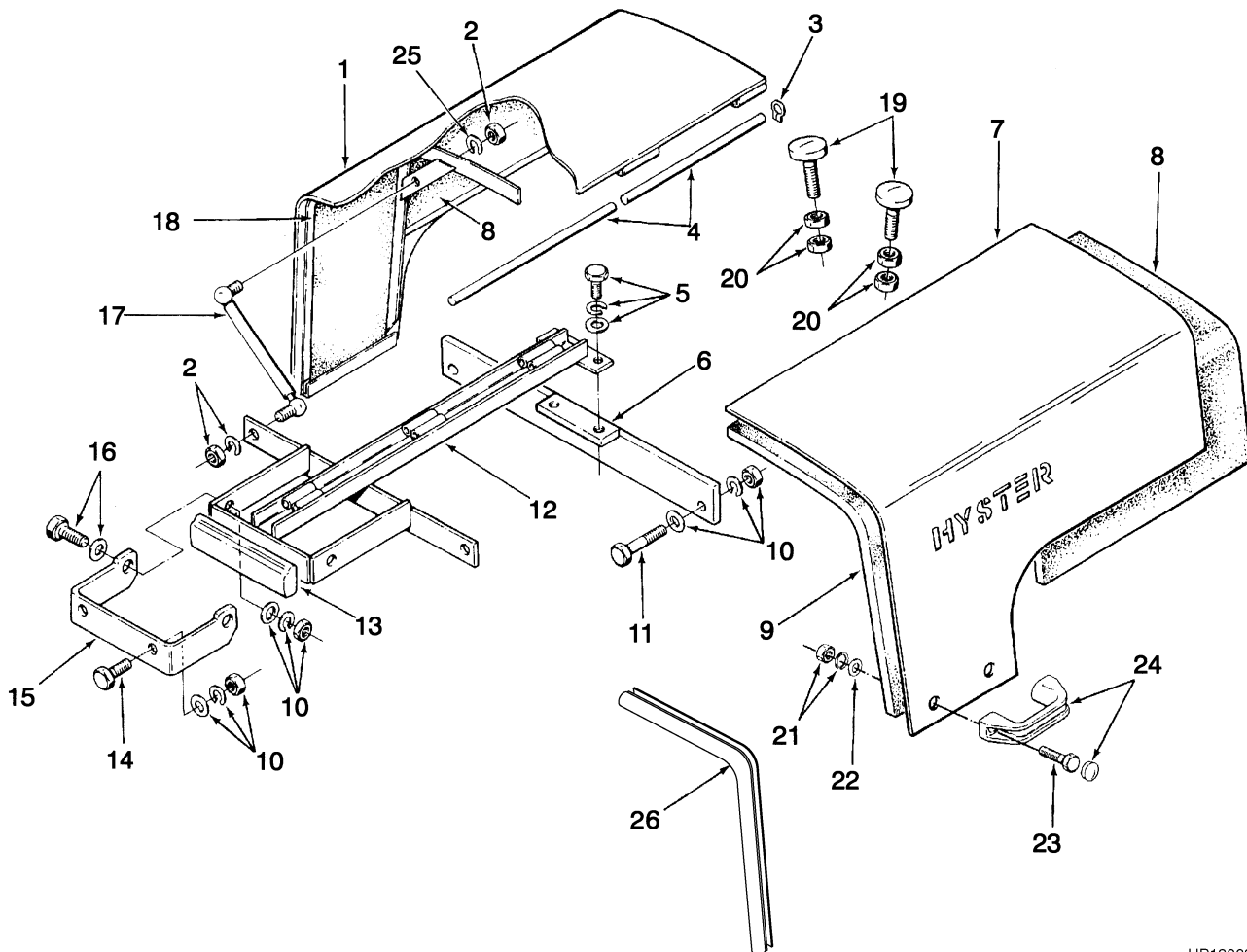
(S/N G006V03428C →)

KEY:**A: Vinyl****B: Cloth**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1593425	Seat-Full Suspension (Vinyl)	1	..
	1593426	Seat-Full Suspension (Cloth)	..	1
1	1470152	Seat Cushion (Back Cushion, Vinyl)	1	..
1	1470153	Seat Cushion (Back Cushion, Cloth)	..	1
2	1470157	Hip Restraint (LH)	1	1
2	1470156	Hip Restraint (RH)	1	1
3	1598504	Kit-Seat Belt	1	1
4	1563207	Seat Cushion	1	..
4	1566453	Seat Cushion	..	1
	a 1563208	Sensor (Operator Presence) (Operator Presence)	1	1
5	1470163	Kit-Weight Adjuster	1	1
5	1584631	Knob	1	1
5	1600126	Handle	1	1
6	1591652	Wire Harness	1	1
7	1470161	Kit-Seat Rail	1	1
	a 1483828	Kit-Gas Spring (Mounted to the rear of the seat)	1	1
8	15175	Lockwasher	4	4
9	145639	Locknut	4	4
10	1561015	Grommet	2	2
11	1509890	Clip	1	1
12	1607247	Seat Pan (With Cab)	1	1
12	1607246	Seat Pan (With Overhead Guard)	1	1
13	287854	Capscrew	4	4
14	292682	Lockwasher	4	4
15	136692	Nut	4	4
16	a 1470155	Information Case (Kit)	1	1

FOOTNOTES:**a** Not Illustrated

HOOD (FIGURE 1-7)

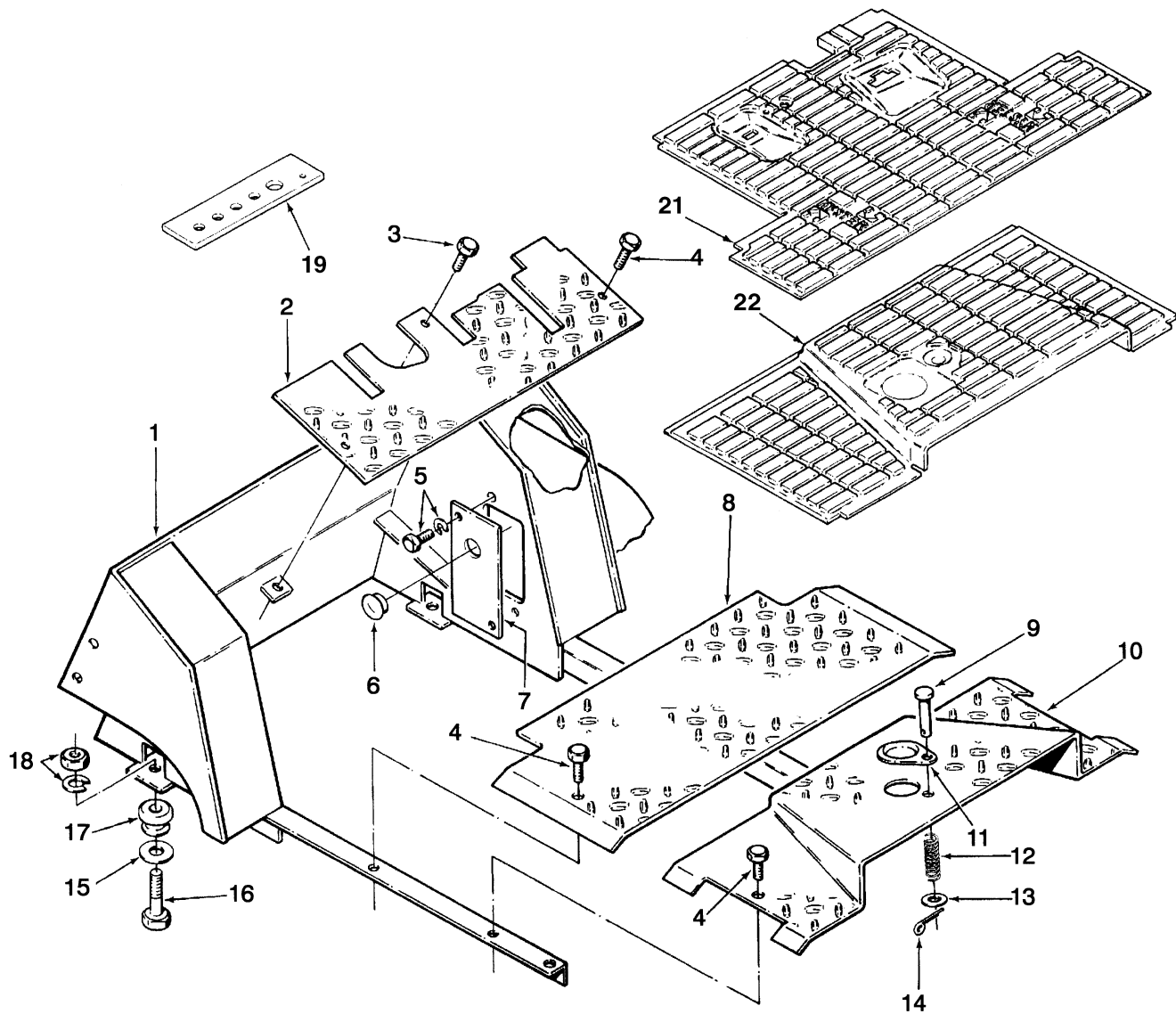


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HOOD

ITEM	PART NO.	DESCRIPTION	QTY
1	367260	Hood (RH)	1
2	292681	Lockwasher	2
2	1569425	Nut	4
3	367228	Retaining Ring	4
4	367227	Rod	2
5	136985	Capscrew	4
5	292682	Lockwasher	2
5	296421	Washer	2
6	367233	Crossmember	1
7	367246	Hood (LH)	1
8	377624	Hood Liner	2
9	377622	Hood Liner (LH)	1
10	136692	Nut	6
10	292682	Lockwasher	6
10	296421	Washer	6
11	292519	Capscrew	2
12	367235	Hose Guide	1
13	261165	Foam Tape	AR
14	136985	Capscrew	2
15	377350	Bracket	1
16	287860	Capscrew	2
16	296421	Washer	2
17	353021	Gas Spring	2
18	377623	Hood Liner (RH)	1
19	367251	Screw	6
20	15055	Nut	10
21	136687	Nut	4
21	292680	Washer	4
22	320156	Washer	4
23	292501	Capscrew	4
24	362030	Handle	2
25	296406	Lockwasher	2
26	367259	Seal	AR

COWL AND FLOOR PLATES (FIGURE 1-8)



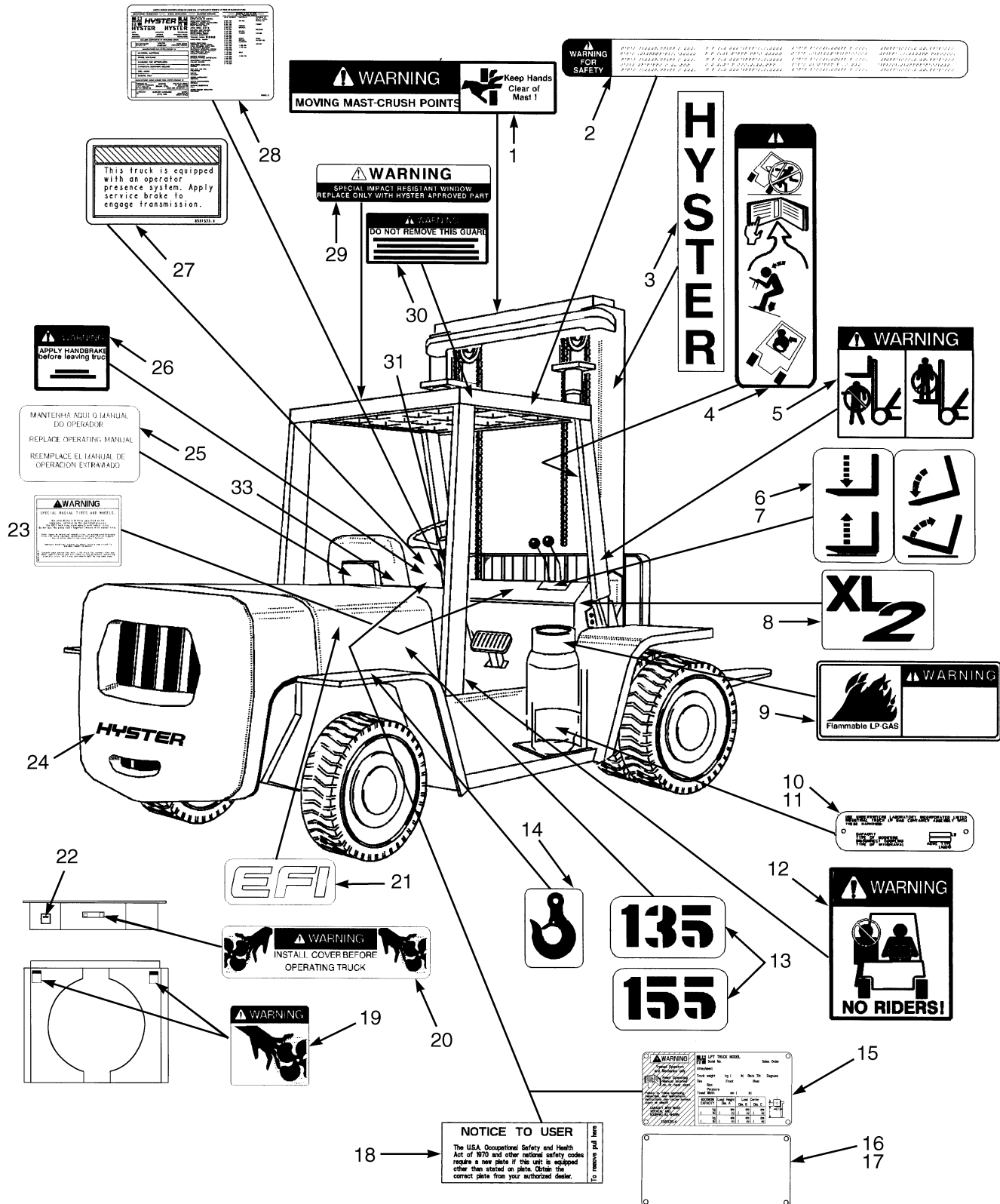
BP120058

COWL AND FLOOR PLATES

ITEM	PART NO.	DESCRIPTION	QTY
1	1346710	Cowl	1
2	b 1466348	Floorplate	1
2	a 1581032	Floorplate	1
3	329067	Screw	1
4	329067	Screw	6
5	136681	Capscrew	4
5	292681	Lockwasher	4
6	374002	Plug	2
7	1562486	Plate	2
8	b 357276	Floorplate	1
8	a 1581033	Floorplate	1
9	b 177590	Pin	1
10	b 357273	Floorplate	1
10	a 1581031	Floorplate	1
11	b 313815	Plate	1
12	b 137122	Spring	1
13	b 320157	Washer	2
14	b 15212	Cotter Pin	1
15	300939	Washer	2
16	292533	Capscrew	2
17	129962	Motor Mount	2
18	216877	Nut	2
18	292683	Lockwasher	2
19	1479752	Seal	1
20	370278	Seal (Not Illustrated)	1
21	b 1312722	Floormat (Front)	1
22	b 374004	Floormat (Rear)	1
	1635632	Trim Seal (Not Illustrated)	AR
	379409	Kit-Noise Reduction	1

FOOTNOTES:**a** With Cab**b** Without Cab

LABELS (FIGURE 1-9)



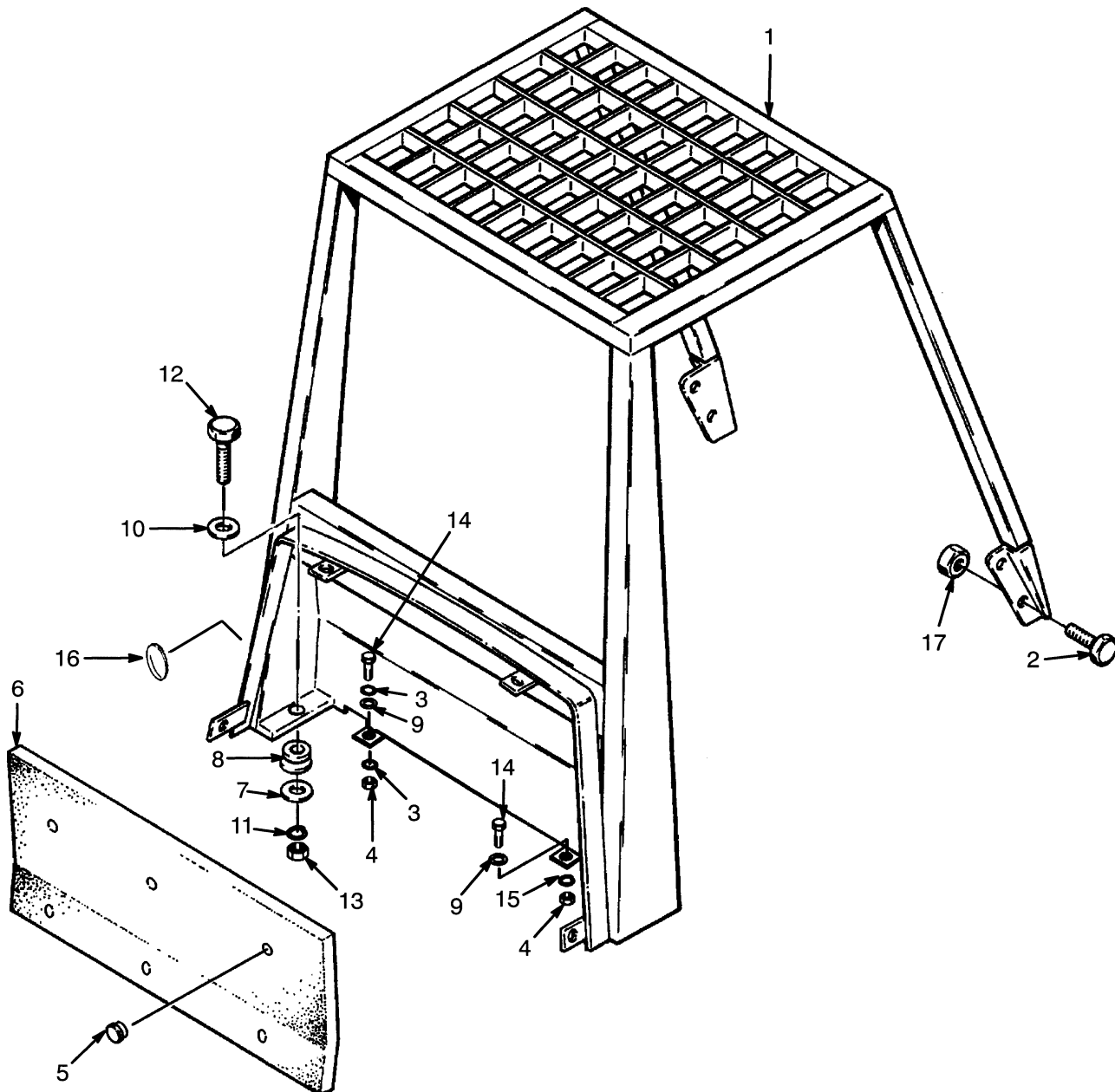
HP120714

LABELS

ITEM	PART NO.	DESCRIPTION	QTY
1	1330919	Label (Mast Warning)	1
2	1335142	Label (Operator Warning)	1
3	c 1562418	Label	2
3	a 1562419	Label	2
4	1330917	Label (Operator Restraint)	2
5	2075656	Label (Mast Warning)	2
6	370258	Label (Auxiliary Function, Side-Shift)	AR
7	369573	Label (Lift/Tilt)	1
8	1346853	Label (XL2)	2
9	1320264	Label (Flammable LP Gas)	1
10	329029	Label (LPG Tank)	1
11	170658	Rivet	2
11	340044	Gripnail (Optional)	2
12	1330920	Label (No Riders)	2
13	380333	Label (Model 135)	2
13	380334	Label (Model 155)	2
14	316448	Label (Lifting Eye)	4
15	b	Nameplate	1
16	389688	Nameplate (Plastic Plate) (Nameplate)	1
17	222023	Rivet	4
18	1335137	Label (Nameplate Tag)	1
19	1345939	Label (Fan Warning)	1
20	1325271	Label (Fan Warning)	1
21	1345998	Label (EFI)	2
22	1354165	Label (Antifreeze)	1
23	1374549	Label (Radial Tire Warning)	1
24	893697	Label (Hyster Optional Counterweight)	1
25	1328205	Label (Operator Manual)	1
26	1335146	Label (Park Brake Warning)	1
27	2080139	Label	1
28	1534660	Label (Patents and Trademarks)	1
29	2038590	Label (Impact Resistant Window) (With Cab)	1
30	b	Label-Impact Warning	1
31	179414	Nameplate (LPG)	1
31	179420	Nameplate (Gasoline)	1
31	179423	Nameplate (Diesel)	1
32	166818	Rivet	2
33	1303833	Plug (Button)	1
	1379945	Fastener (Not Illustrated)	6
	2034459	Label (Ether Warning) (Not Illustrated)	1

FOOTNOTES:**a** All Masts 4540-5540 mm Lift without Lights**b** Please Contact Your Local Hyster Dealer**c** Three Stage Full Free-Lift with Lights (4540-5540 mm Lift)

OVERHEAD GUARD (FIGURE 1-10)



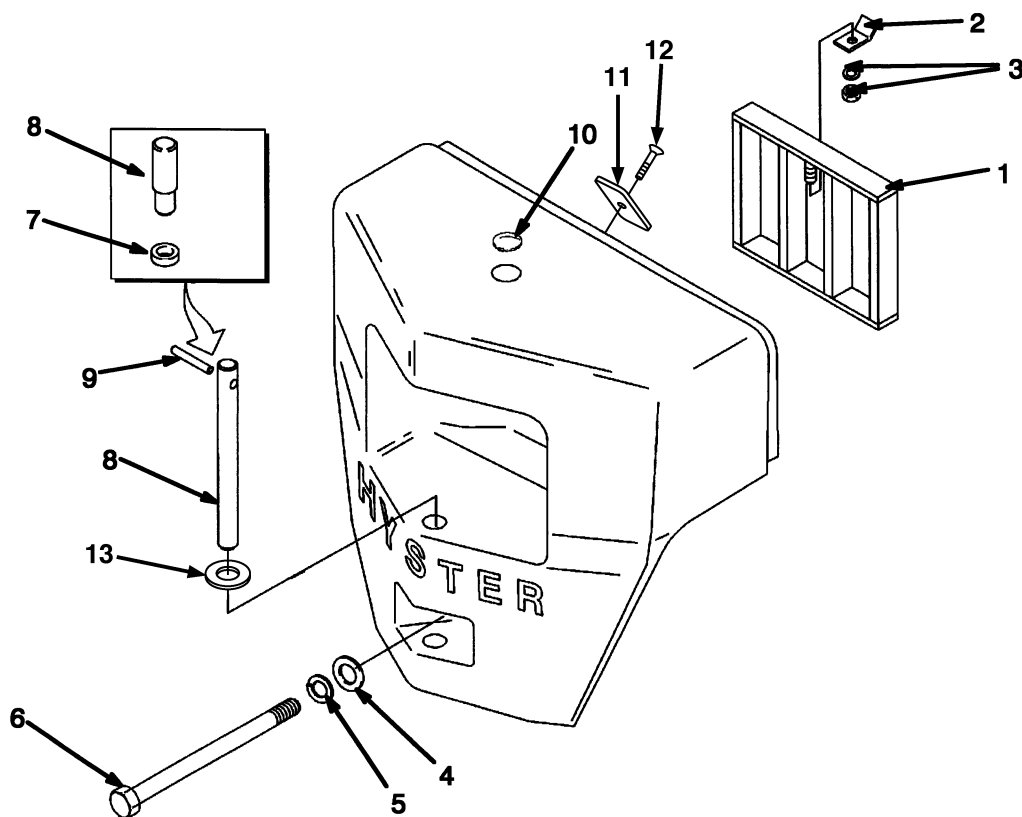
HP120477

OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1552384	Overhead Guard	1
1	b 1607255	Overhead Guard	1
2	221653	Screw	4
3	292682	Lockwasher	2
4	136692	Nut	2
5	228376	Button	6
6	1552599	Liner (Without Cab)	1
6	1581487	Liner (With Cab)	1
7	164281	Washer	2
8	129962	Motor Mount	2
9	320159	Washer	2
10	379402	Washer	4
11	292685	Lockwasher	2
12	292570	Capscrew	2
13	292600	Nut	2
14	136985	Capscrew	2
15	292682	Lockwasher	1
16	1315411	Plug	1
17	248320	Wheel Nut	4

FOOTNOTES:**a** → S/N G006V03427C**b** S/N G006V03428C →

COUNTERWEIGHT (FIGURE 1-11)



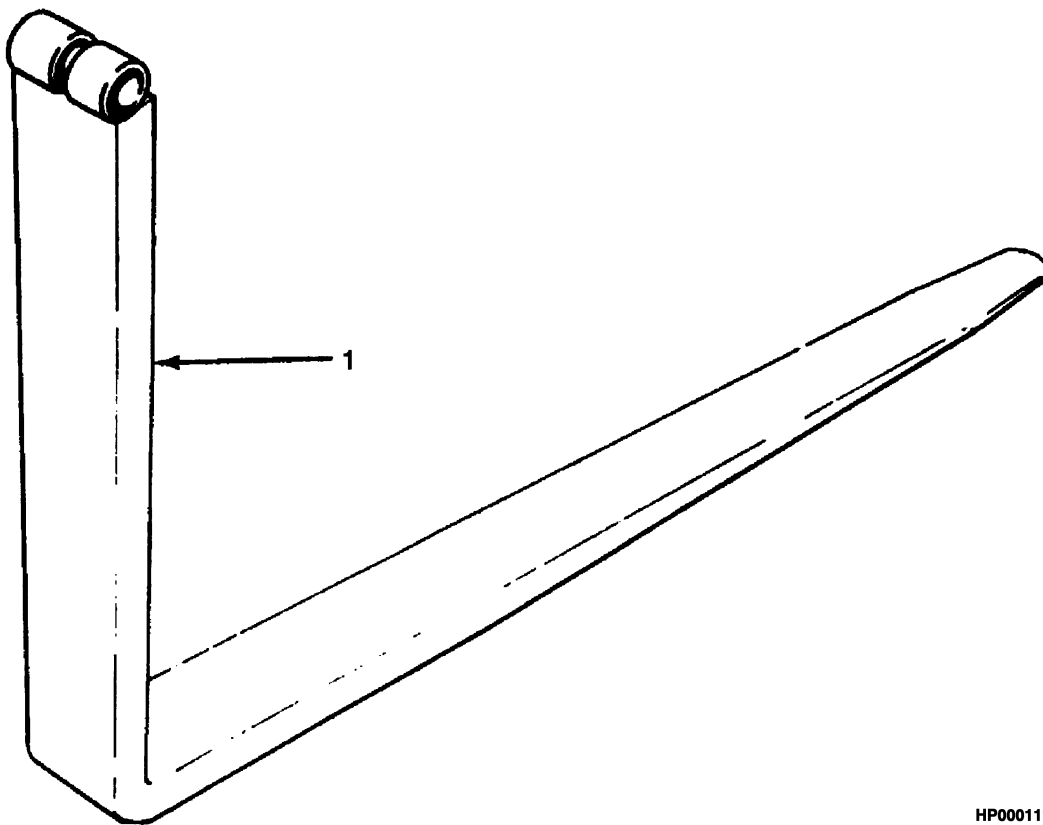
HP120073

COUNTERWEIGHT**KEY:****A:** H135XL**B:** H155XL

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	ab 1334360	Counterweight	1	..
	abd 1334361	Counterweight	1	..
	ab 1334362	Counterweight	..	1
	abd 1334363	Counterweight	..	1
	c 1357461	Counterweight	1	..
	cd 1357462	Counterweight	1	..
	c 1357463	Counterweight	..	1
	cd 1357464	Counterweight	..	1
1	1320109	Grill	1	1
2	270405	Bracket	1	1
3	15057	Nut	1	1
3	15157	Lockwasher	1	1
4	150181	Washer	1	1
5	15166	Lockwasher	1	1
6	240243	Capscrew	..	1
6	270074	Capscrew	1	..
7	e 87759	Ring	1	1
8	fg 1334359	Tow Pin	1	1
9	fg 1527470	Pin	1	1
10	1337734	Plug	1	1
11	1553784	Shim	AR	AR
12	296215	Capscrew	2	2
13	15186	Washer	1	1

FOOTNOTES:

a 60 in. Carriage Width, 2.25 in. Fork Pin Diameter	e → S/N F006A05324
b 78 in. Carriage Width, 2.25 in. Fork Pin Diameter	f S/N F006A05325 →
c 78 in. Carriage Width, 2.50 in. Fork Pin Diameter	g S/N F006D01501 →
d Optional	

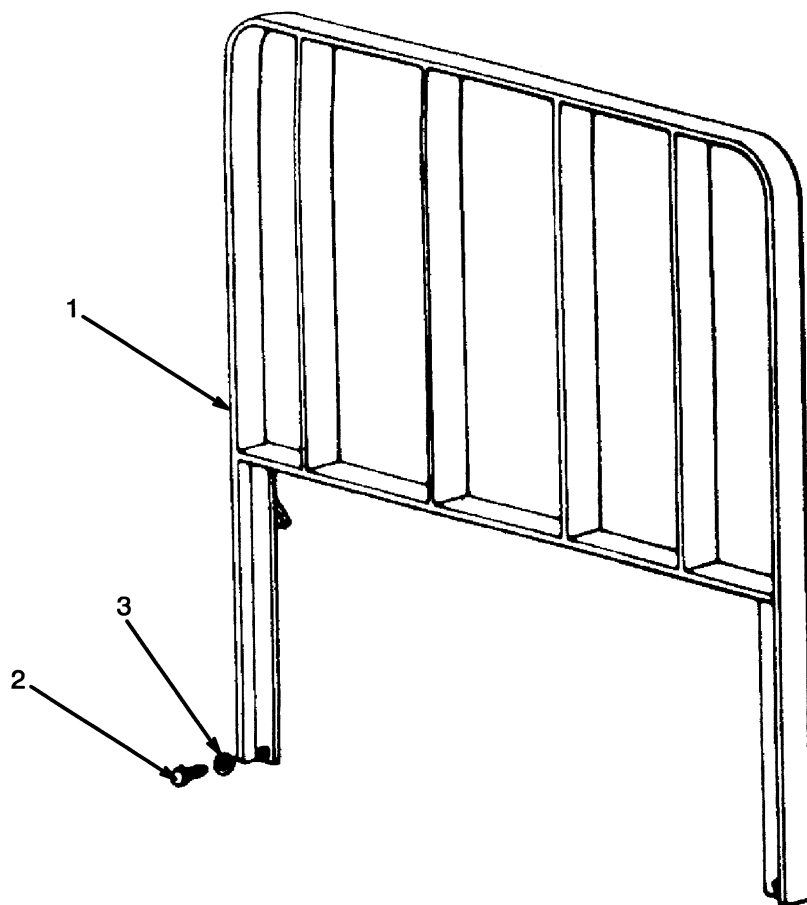
FORKS (FIGURE 1-12)
PIN TYPE

HP000111

**FORKS
PIN TYPE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1330787	Fork (48.15 in.)	2
1	1330791	Fork (54.20 in.)	2
1	1330792	Fork (60.12 in.)	2
1	1330793	Fork (72.2 in.)	2
1	1330794	Fork (96.3 in.)	2

LOAD BACKREST EXTENSION (FIGURE 1-13)



HP120074

ITEM	PART NO.	DESCRIPTION	QTY
1	115112W	Load Backrest (78 in.) (1981 mm)	1
2	226458	Capscrew	6
3	292685	Lockwasher	6

2

ENGINE ASSEMBLY

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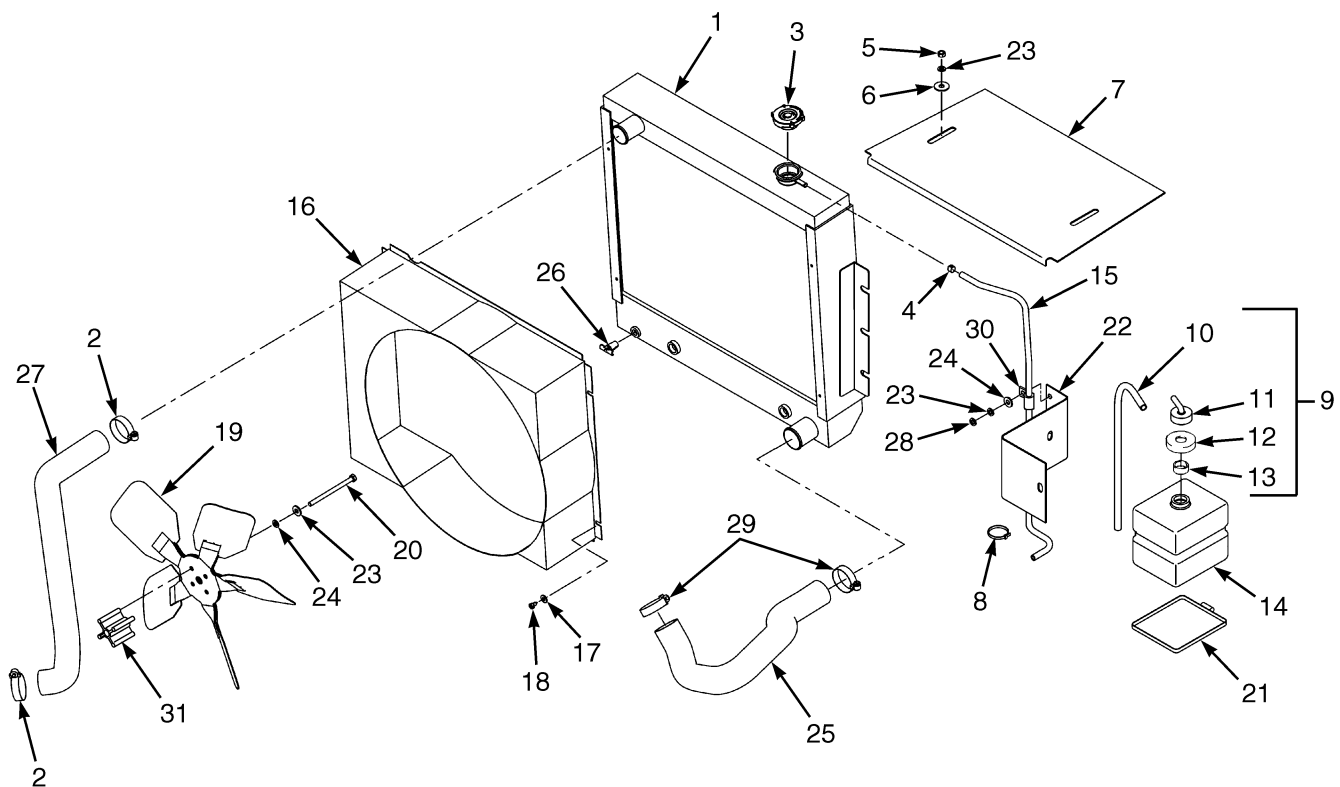
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ENGINE ASSEMBLY**

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NOTES

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RADIATOR (FIGURE 2-1) GASOLINE AND LPG

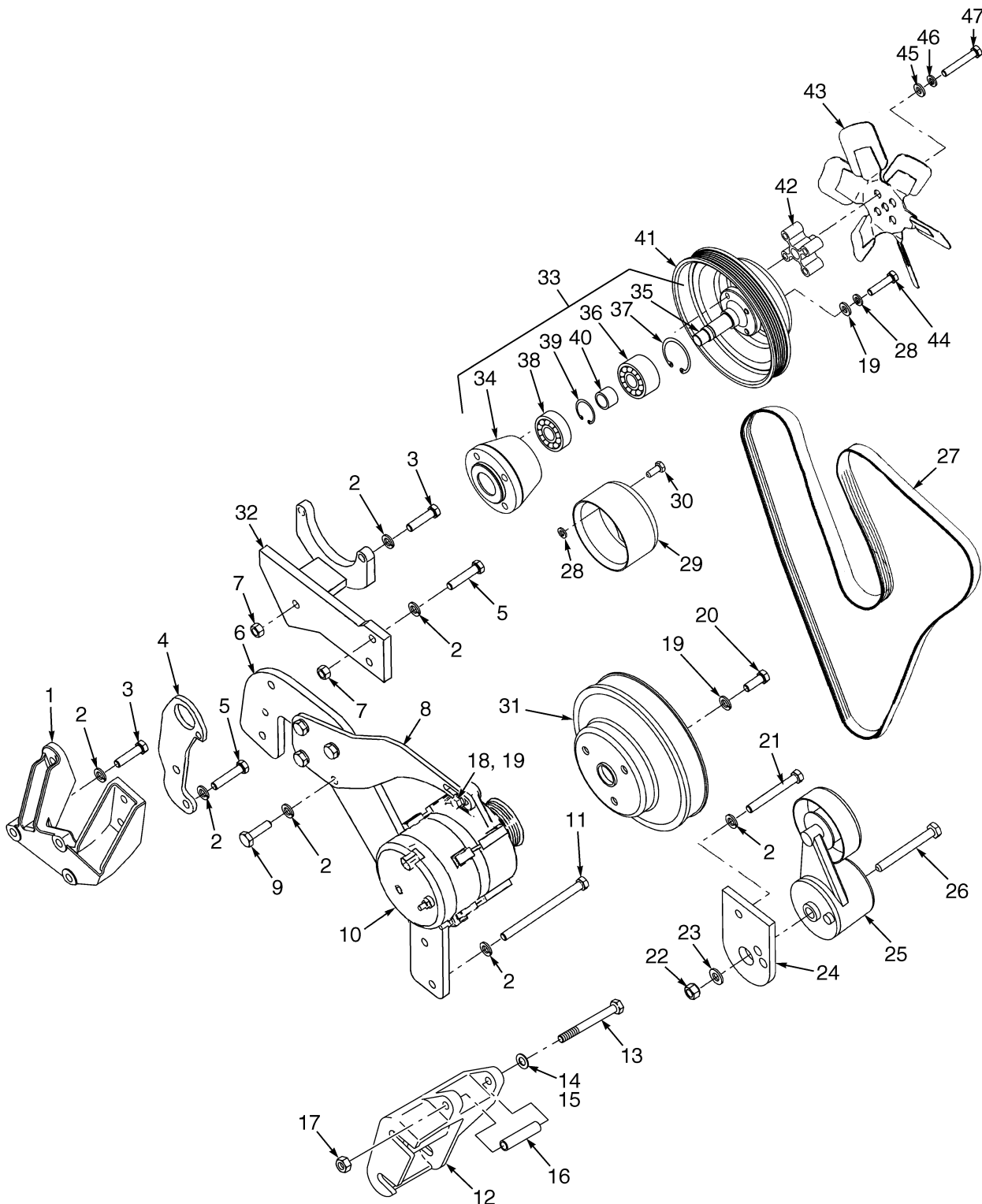


BP060014

**RADIATOR
GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	1456899	Radiator	1
2	119236	Clamp	2
3	178899	Radiator Cap (Radiator)	1
4	353310	Clamp	2
5	15055	Nut	4
6	221733	Washer	4
7	350052	Cover	1
8	137852	Strap Clamp	1
9	1359581	Outlet	1
10	1457312	Hose	1
11	345454	Cap	1
12	345453	Outlet (Reservoir)	1
13	336550	Bushing	1
14	344432	Reservoir	1
15	1302955	Hose	1
16	373109	Shroud	1
17	15127	Washer	4
18	16073	Screw	4
19	148891	Fan	1
20	18529	Capscrew	4
21	340204	Strap	1
22	340203	Bracket	1
23	292681	Lockwasher	10
24	320158	Washer	8
25	1377754	Radiator Hose	1
26	12815	Drain Valve (Drain)	1
27	2062235	Radiator Hose	1
28	239503	Nut	4
29	119236	Clamp	2
30	124297	Clamp	1
31	1377795	Spacer	1

FAN DRIVE AND ALTERNATOR MOUNTING (FIGURE 2-2) 4.3L EPA COMPLIANT ENGINE

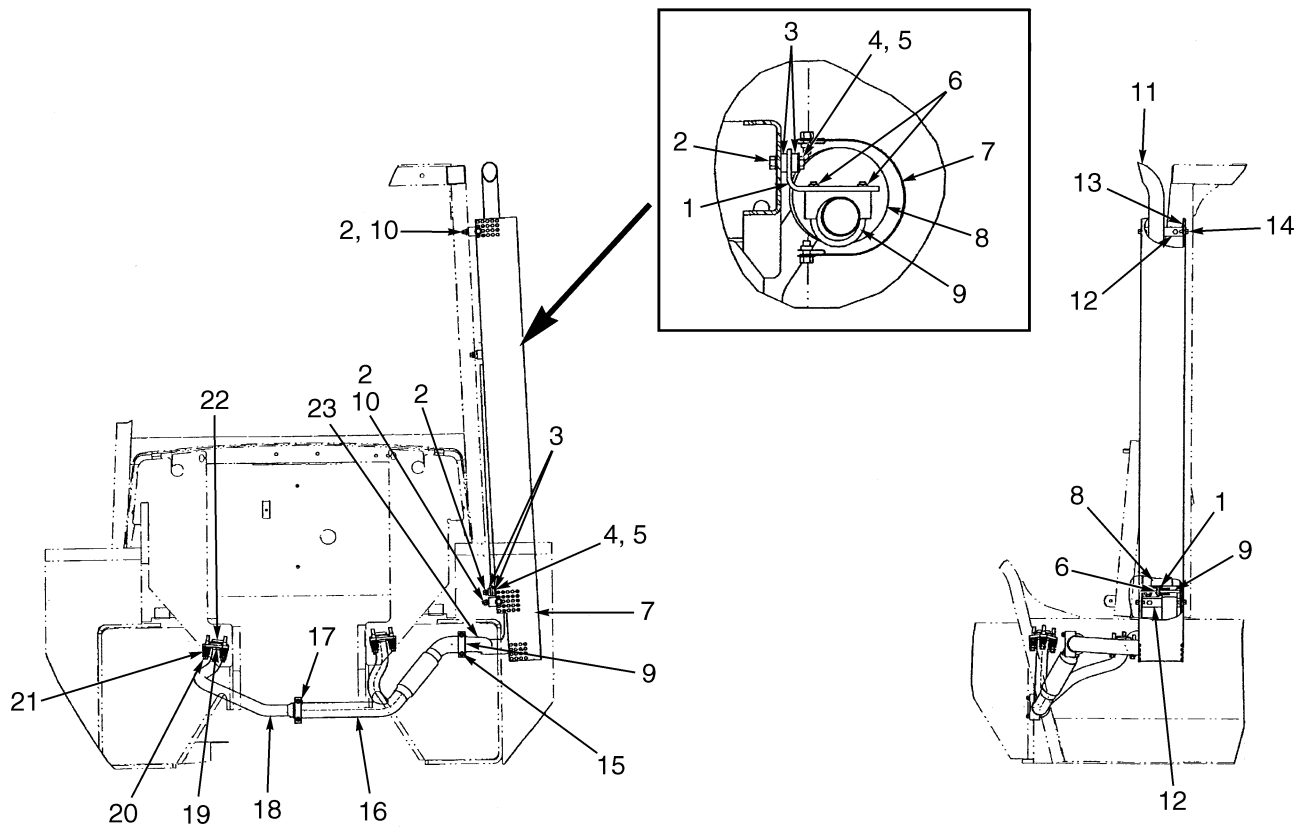


BP090128

**FAN DRIVE AND ALTERNATOR MOUNTING
4.3L EPA COMPLIANT ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1389348	Bracket	1
2	292682	Lockwasher	15
3	16815	Capscrew	2
4	1383228	Plate	1
5	16816	Capscrew	4
6	1383225	Plate	1
7	15056	Nut	3
8	1389337	Strap (Alternator)	1
9	287860	Capscrew	4
10	1469597	Alternator	1
11	18547	Capscrew	1
12	1383229	Mount	1
13	18548	Capscrew	1
14	261379	Washer	2
15	305100	Sleeve	1
16	189338	Spacer	1
17	139743	Locknut	1
18	1527881	Capscrew	1
19	320157	Washer	4
20	16634	Capscrew	3
21	18549	Capscrew	1
22	316826	Nut	1
23	320159	Washer	1
24	1383226	Plate	1
25	1377752	Tensioner	1
26	292524	Capscrew	1
27	2036995	V-Belt	1
28	292681	Lockwasher	8
29	1383204	Water Pump Pulley (Water Pump)	1
30	136681	Capscrew	4
31	1377750	Pulley	1
32	1461800	Starting Aid	1
33	1506794	Fan Drive	1
34	1506713	Hub	1
35	1459007	Shaft	1
36	1459011	Ball Bearing	1
37	12928	Snap Ring	1
38	124668	Ball Bearing	1
39	160996	Snap Ring	1
40	1459012	Sleeve	1
41	1380309	Pulley	1
42	1377781	Spacer	1
43	148891	Fan	1
44	16835	Capscrew	4
45	292681	Lockwasher	4
46	320158	Washer	4
47	18529	Capscrew	4

EXHAUST GAS AND LPG (FIGURE 2-3) WITHOUT CAB

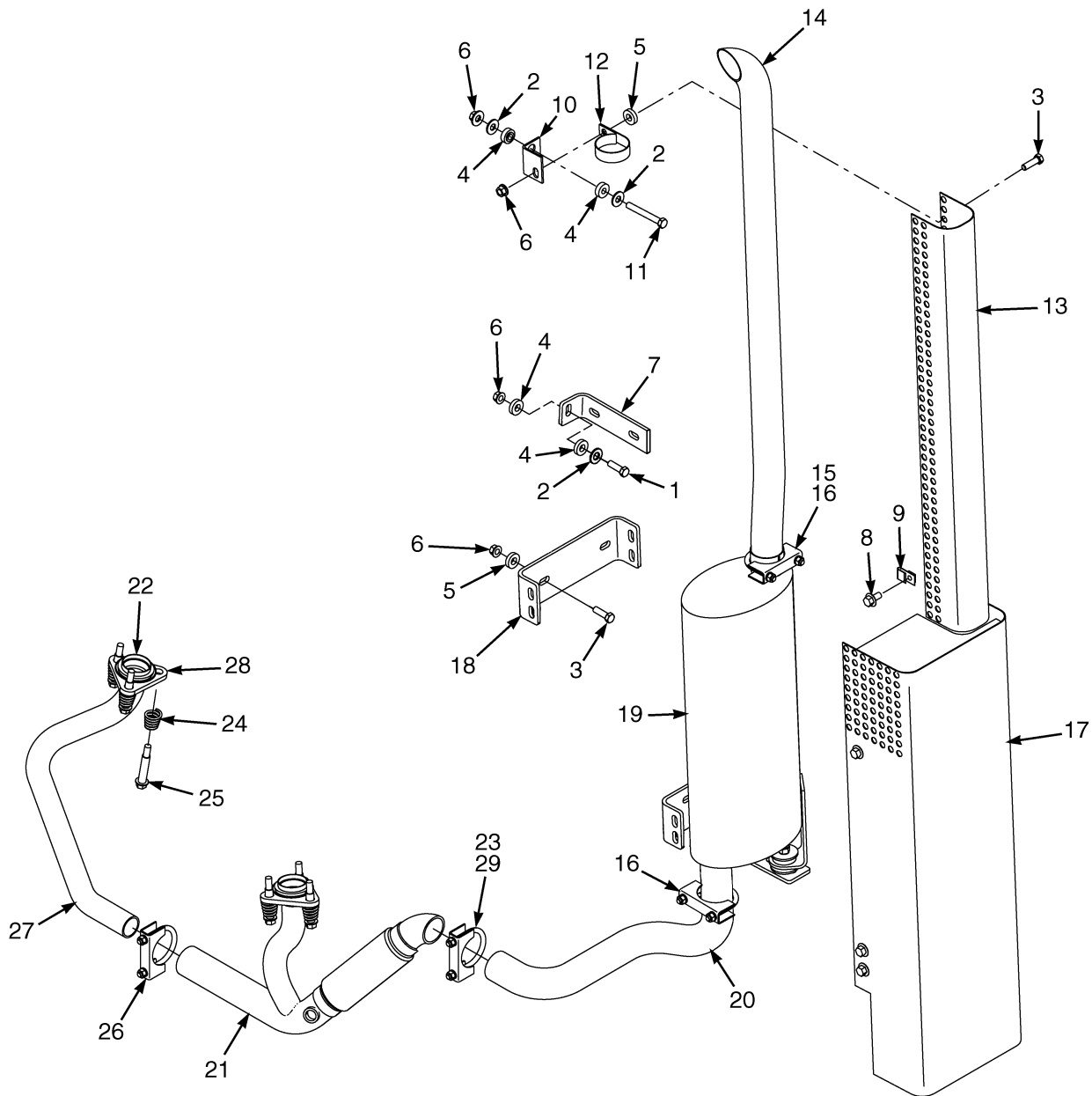


YP110047

**EXHAUST GAS AND LPG
WITHOUT CAB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1375986	Bracket	2
2	192077	Nut	4
3	223216	Bushing	4
4	16815	Capscrew	2
5	15176	Lockwasher	2
6	1388300	Lockwasher	4
7	346295	Exhaust Shield	1
8	344275	Muffler	1
9	30370	Clamp	3
10	16805	Capscrew	2
11	346293	Exhaust Pipe	1
12	344381	Bracket	2
13	269200	Nut	4
14	134803	Screw	4
15	320157	Washer	2
16	1500776	Exhaust Pipe	1
17	63116	Clamp	1
18	1476024	Exhaust Pipe	1
19	1499514	Flange	1
20	1337118	Capscrew	6
21	1335898	Spring	6
22	1338258	Seal	2
23	346283	Exhaust Pipe	1

EXHAUST GAS AND LPG (FIGURE 2-4) WITH CAB

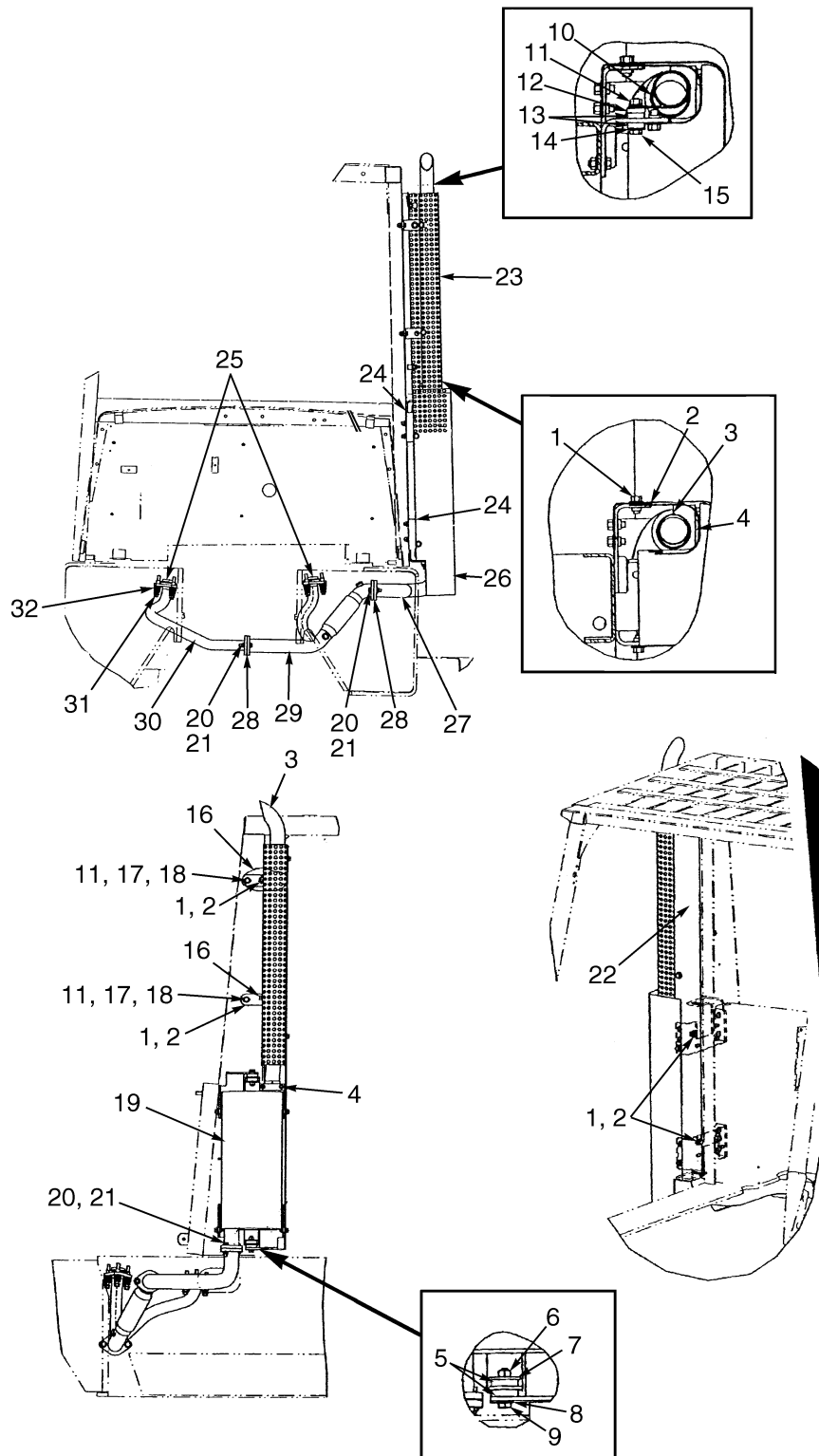


YP110086

**EXHAUST GAS AND LPG
WITH CAB**

ITEM	PART NO.	DESCRIPTION	QTY
1	16816	Capscrew	2
2	15176	Lockwasher	4
3	16828	Capscrew	4
4	223216	Bushing	6
5	107151	Washer	4
6	192077	Nut	7
7	1375986	Bracket	2
8	134803	Screw	6
9	269200	Nut	6
10	369135	Bracket	1
11	18540	Capscrew	1
12	369136	Clamp	1
13	369127	Exhaust Shield	1
14	369129	Exhaust Pipe	1
15	1388300	Lockwasher	4
16	30370	Clamp	2
17	1499677	Guard	1
18	369128	Bracket	2
19	367266	Muffler	1
20	368249	Exhaust Pipe	1
21	1500776	Exhaust Pipe	1
22	1338258	Seal	2
23	320157	Washer	2
24	1335898	Spring	6
25	1337118	Capscrew	6
26	63116	Clamp	1
27	1476024	Exhaust Pipe	1
28	1499514	Flange	1
29	30370	Clamp	1

EXHAUST GAS AND LPG (FIGURE 2-5) WITHOUT CAB — EPA COMPLIANT

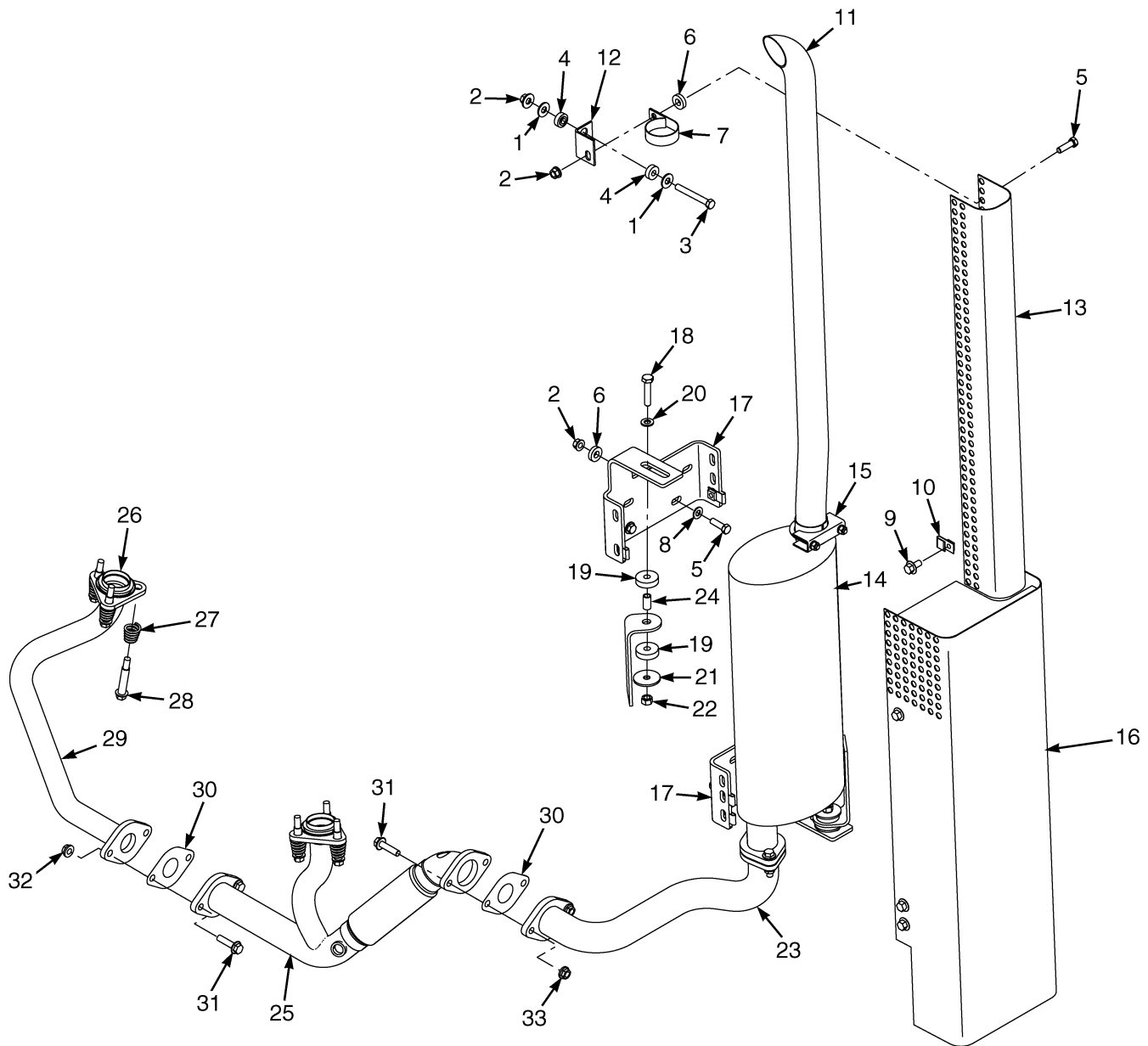


YP110084

**EXHAUST GAS AND LPG
WITHOUT CAB – EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
1	134803	Screw	8
2	269200	Nut	8
3	369129	Exhaust Pipe	1
4	30370	Clamp	1
5	1351177	Rubber Cushion	4
6	313828	Nut	2
7	1351176	Washer	2
8	320159	Washer	2
9	292509	Capscrew	2
10	369136	Clamp	1
11	192077	Nut	7
12	107151	Washer	1
13	223216	Bushing	2
14	15176	Lockwasher	1
15	16816	Capscrew	1
16	1499674	Bracket	2
17	16805	Capscrew	6
18	15134	Washer	6
19	2062650	Catalytic Converter (Catalyzed)	1
20	1512403	Capscrew	6
21	1460477	Nut	6
22	1500402	Guard	1
23	1523680	Exhaust Shield	1
24	1499664	Bracket	2
25	1338258	Seal	2
26	1499677	Guard	1
27	1500389	Exhaust Pipe	1
28	1402189	Gasket	2
29	1499536	Exhaust Pipe	1
30	1501133	Exhaust Pipe	1
31	1337118	Capscrew	6
32	1335898	Spring	6
33	1553420	Spacer	2

EXHAUST GAS AND LPG (FIGURE 2-6) WITH CAB — EPA COMPLIANT

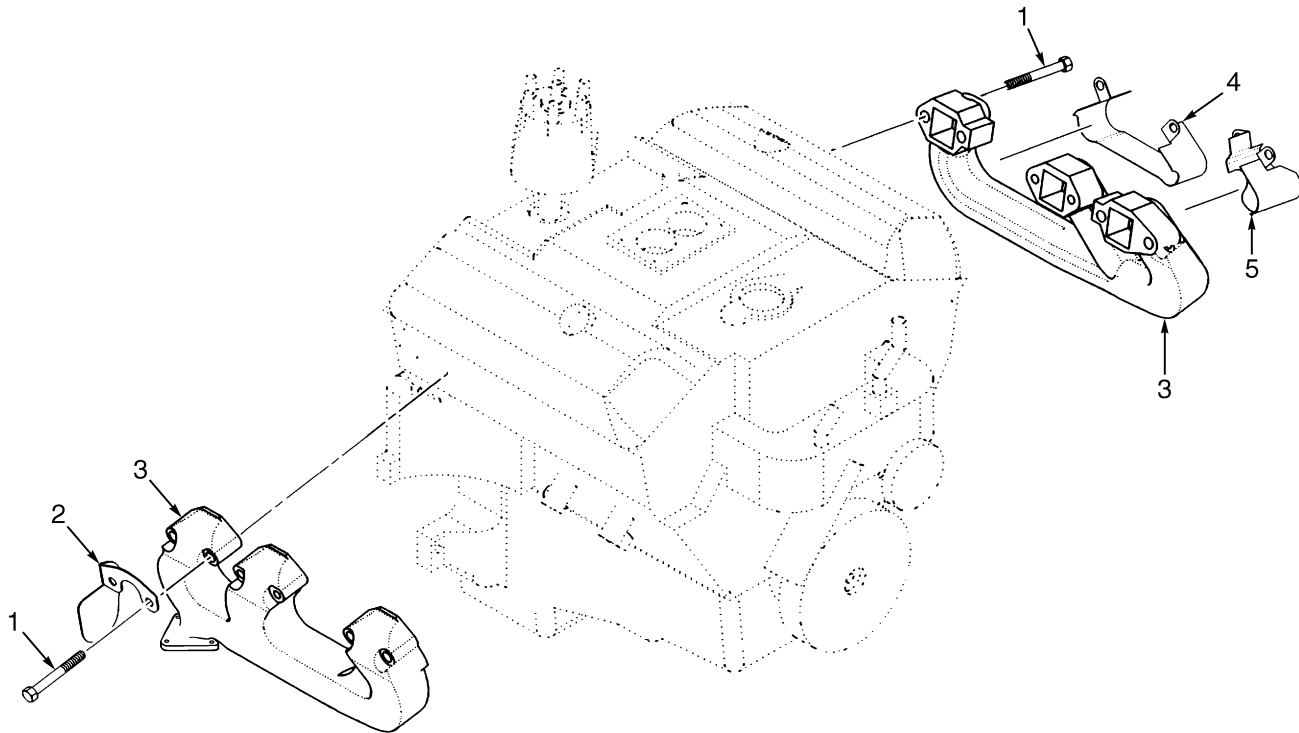


YP110085

**EXHAUST GAS AND LPG
WITH CAB – EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
1	15176	Lockwasher	2
2	192077	Nut	6
3	18540	Capscrew	1
4	223216	Bushing	2
5	16828	Capscrew	5
6	107151	Washer	5
7	369136	Clamp	1
8	15134	Washer	4
9	134803	Screw	7
10	269200	Nut	7
11	369129	Exhaust Pipe	1
12	1542187	Bracket	1
13	1542188	Exhaust Shield	1
14	2062650	Catalytic Converter (Catalyzed)	1
15	30370	Clamp	1
16	1499677	Guard	1
17	1499664	Bracket	2
18	292509	Capscrew	2
19	1351177	Rubber Cushion	4
20	320159	Washer	2
21	1351176	Washer	2
22	313828	Nut	2
23	1500389	Exhaust Pipe	1
24	1553420	Spacer	2
25	1499536	Exhaust Pipe	1
26	1338258	Seal	2
27	1335898	Spring	6
28	1337118	Capscrew	6
29	1501133	Exhaust Pipe	1
30	1402189	Gasket	2
31	1512403	Capscrew	6
32	1460477	Nut	6

EXHAUST MANIFOLD (FIGURE 2-7) GASOLINE AND LPG — 4.3L EPA COMPLIANT



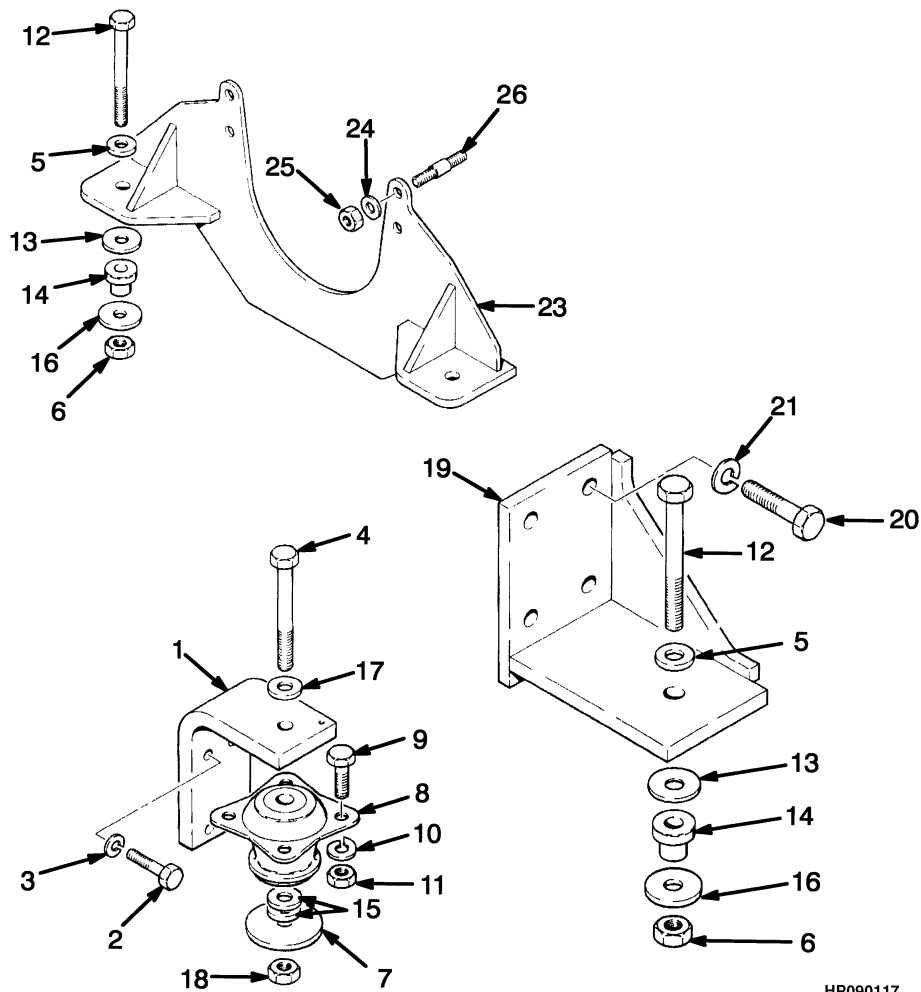
BP090136

ITEM	PART NO.	DESCRIPTION	QTY
1	1383257	Bolt	12
2	1529010	Heat Shield	1
3	1502741	Exhaust Manifold	2
4	1316488	Shield (Spark Plug)	2
5	1316494	Shield	2

NOTES

[illegible]

ENGINE MOUNTING (FIGURE 2-8) GASOLINE, LPG AND DIESEL

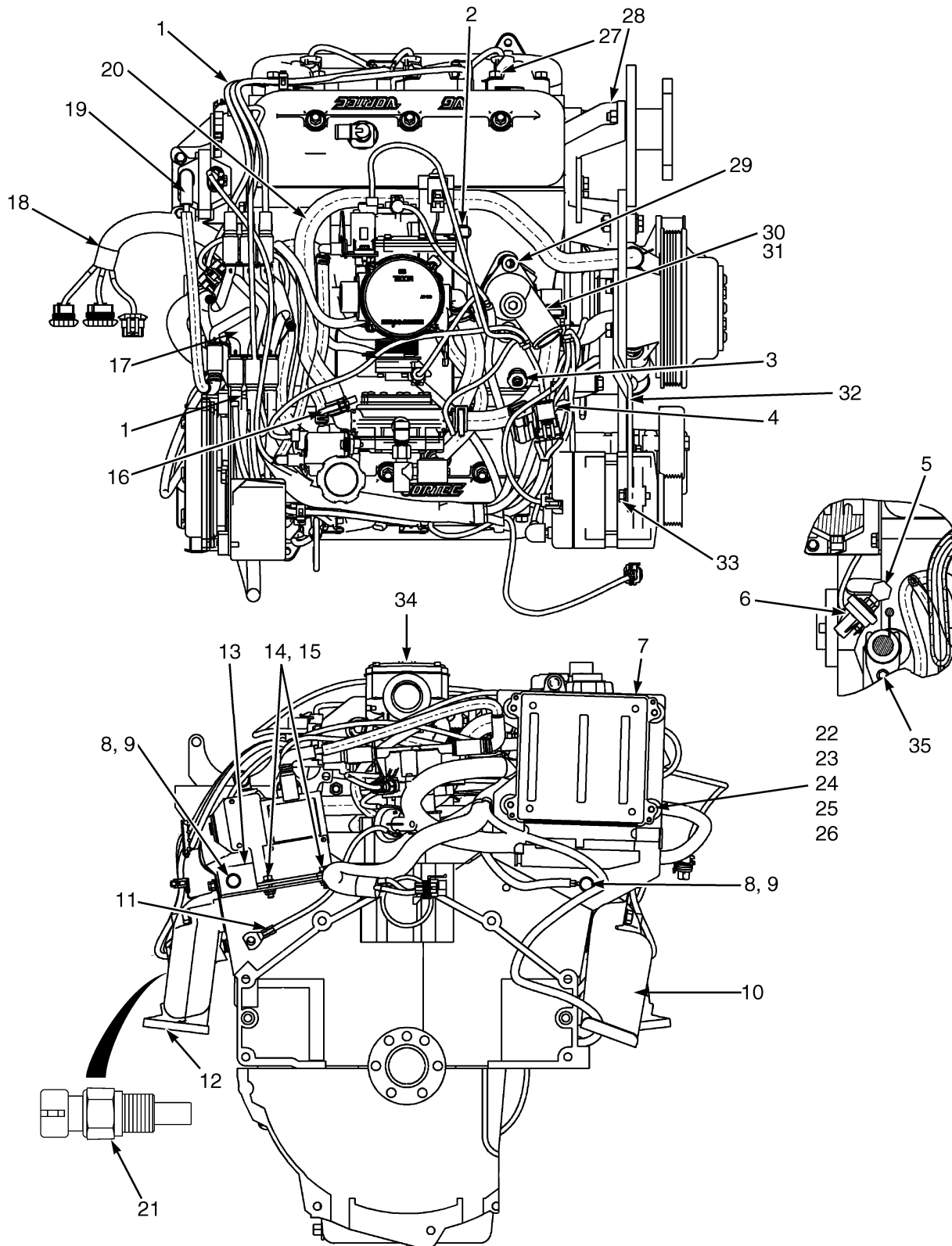


HP090117

ENGINE MOUNTING
GASOLINE, LPG AND DIESEL**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	340792	Bracket	2	2
2	293648	Capscrew	8	8
3	296422	Washer	8	8
4	292573	Capscrew	2	2
5	300932	Washer	2	2
6	300937	Nut	2	2
7	1357323	Washer	2	2
8	146628	Mount	2	2
9	287860	Capscrew	8	8
10	292682	Lockwasher	7	7
11	136692	Nut	8	8
12	292537	Capscrew	2	2
13	340796	Washer	2	2
14	398350	Motor Mount	2	2
15	320165	Washer	4	4
16	300939	Washer	2	2
17	1357322	Washer	2	2
18	316828	Nut	2	2
19	377354	Bracket	..	2
20	292527	Capscrew	..	8
21	292683	Lockwasher	..	8
22	264159	Adhesive (Not Illustrated)	..	AR
23	1383350	Bracket Wldmt	1	..
24	221767	Washer	4	..
25	139743	Locknut	4	..
26	372006	Stud	4	..
27	264134	Loctite (Not Illustrated)	AR	..

ASSEMBLED ENGINE (FIGURE 2-9) LPG, 4.3L EPA COMPLIANT — SHEET 1 OF 2



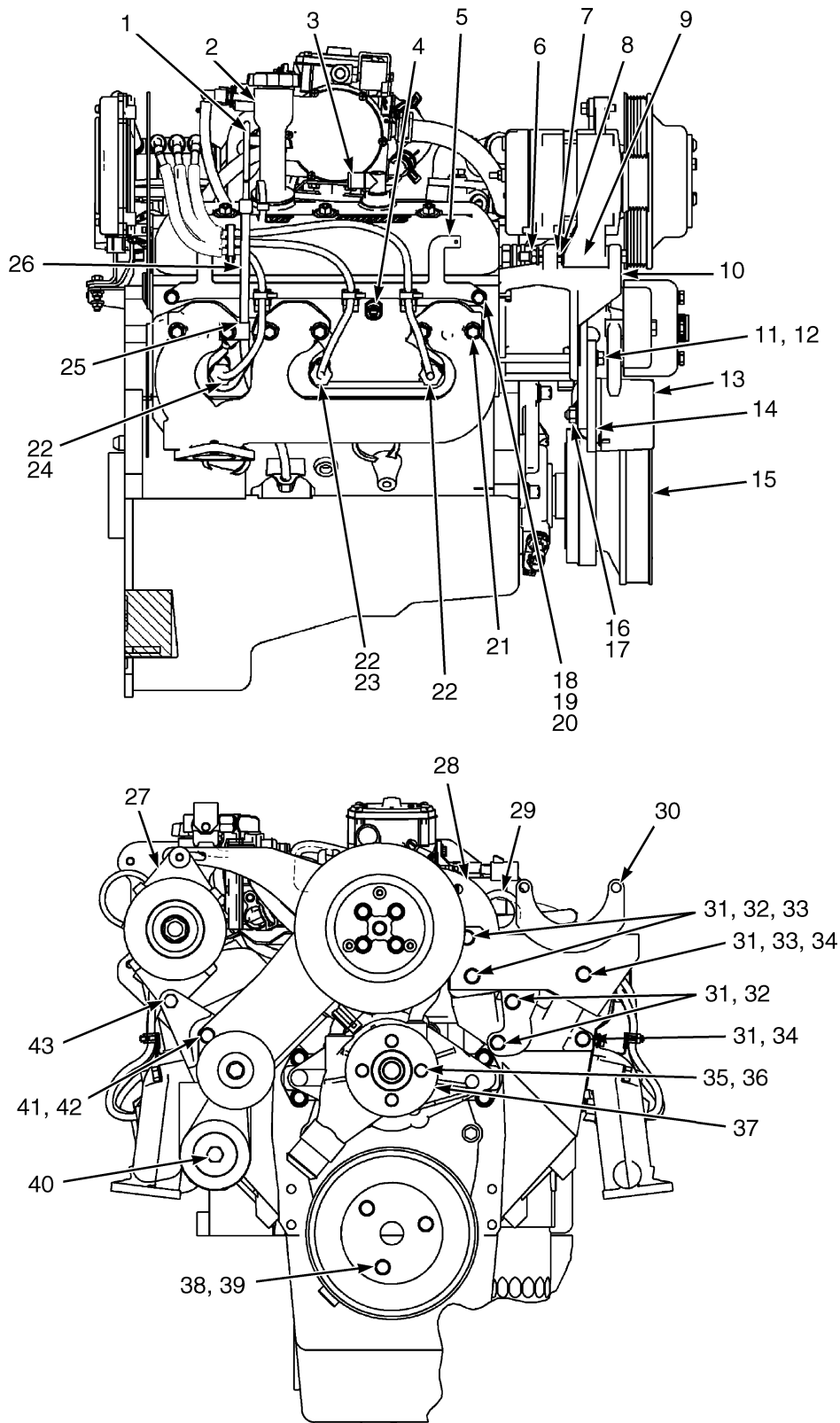
BP090129

ASSEMBLED ENGINE
LPG, 4.3L EPA COMPLIANT – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	a 2063112	Engine Assy	1
	b 2073089	Engine Assy-Lpg	1
	a 1543978	Engine Assy-Lpg (LPG)	1
	b 1580856	Engine Assy-Lpg (LPG)	1
1	2076587	Kit-Ignition Cable (LH and RH)	1
2	15302	Plug	1
3	1319190	Temperature Sender	1
4	2067390	Wire Harness (LPG Regulator)	1
5	1476145	Fitting	1
6	1545857	Pressure Switch (Oil Pressure)	1
7	2063101	Engine Control Module	1
7	1570324	Bracket (ECM Mounting)	1
8	15156	Lockwasher	2
9	18535	Capscrew	2
10	1529010	Heat Shield	1
11	2067573	Wire Harness (Oil Pressure Ground)	1
12	1502741	Exhaust Manifold	2
13	1551549	Bracket	1
14	1527877	Capscrew	2
15	1514429	Nut	2
16	1501994	Hose Clamp	2
17	1559695	Distributor	1
18	2068082	Wire Harness (Main Engine)	1
19	b 1386191	Ignition Coil	1
19	b 1564670	Ignition Coil	1
20	2066720	Hose (Coolant)	1
21	1314381	Temperature Sender	1
22	220359	Screw	4
23	15127	Washer	10
24	1567027	Isolator	6
25	15154	Lockwasher	5
26	221703	Nut	1
27	1316487	Shield	1
28	1389348	Bracket	1
29	18537	Capscrew	2
30	1450696	Thermostat	1
31	1317468	Water Outlet	1
32	1389337	Strap (Alternator)	1
33	1527881	Capscrew	1
34		LPG Fuel System (☞ Figure 3-7).....	1
35	1569750	Yoke (Distributor)	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

ASSEMBLED ENGINE (FIGURE 2-10) LPG, 4.3L EPA COMPLIANT — SHEET 2 OF 2



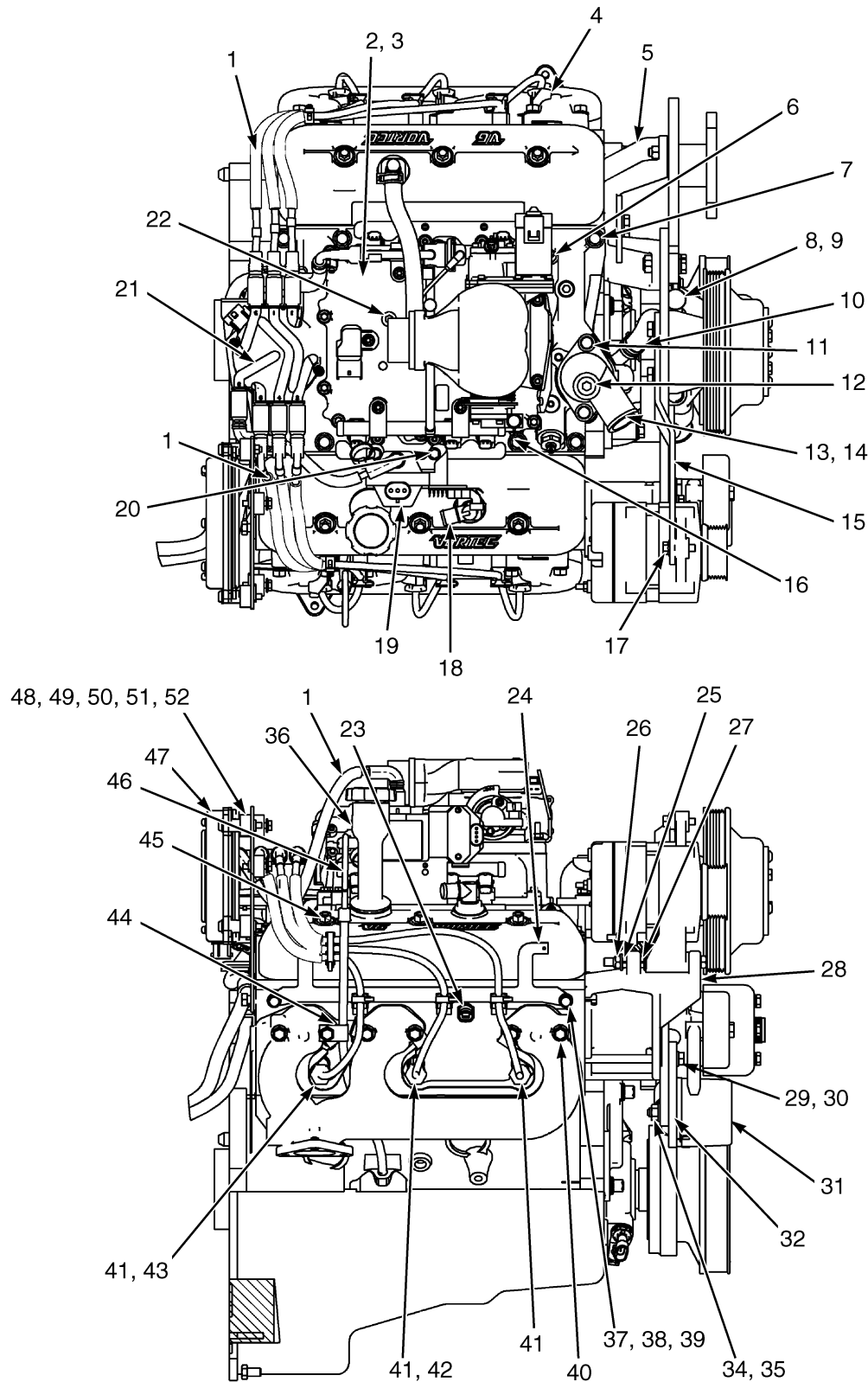
BP090263

ASSEMBLED ENGINE
LPG, 4.3L EPA COMPLIANT – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	a 2063112	Engine Assy	1
	b 2073089	Engine Assy-Lpg	1
	a 1543978	Engine Assy-Lpg (LPG)	1
	b 1580856	Engine Assy-Lpg (LPG)	1
2	1510649	Dipstick	1
3	1552141	Filler Neck	1
4	379407	Fitting	1
5	1314381	Temperature Sender	2
6	1564035	Bracket	1
7	139743	Locknut	1
8	261379	Washer	2
9	305100	Sleeve	1
10	1383229	Mount	1
11	18549	Capscrew	1
12	15156	Lockwasher	1
13	1377752	Tensioner	1
14	1383226	Plate	1
15	1377750	Pulley	1
16	320159	Washer	1
17	316826	Nut	1
18	15127	Washer	8
19	15154	Lockwasher	8
20	133469	Capscrew	6
21	1383257	Bolt	12
22	1452376	Spark Plug	6
23	1316488	Shield	1
24	1316494	Shield	1
25	133696	Clamp	1
26	1673897	Dipstick Tube	1
27	1469597	Alternator	1
28	1383225	Plate	1
29	1383228	Plate	1
30	1461800	Starting Aid	1
31	15156	Lockwasher	6
32	16816	Capscrew	4
33	15056	Nut	3
34	16815	Capscrew	2
35	292681	Lockwasher	4
36	136681	Capscrew	4
37	1383204	Water Pump Pulley (Water Pump)	1
38	15156	Lockwasher	3
39	16634	Capscrew	3
40	292524	Capscrew	1
41	18547	Capscrew	1
42	15156	Lockwasher	1
43	18548	Capscrew	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

ASSEMBLED ENGINE (FIGURE 2-11) GASOLINE, 4.3L EPA COMPLIANT — SHEET 1 OF 2



BP090264

ASSEMBLED ENGINE
GASOLINE, 4.3L EPA COMPLIANT – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	b 2064830	Engine Service Assy	1
	c 2073094	Engine Assy-Gas	1
	b 1543776	Engine Assy-Gas (Gasoline)	1
	c 1580857	Engine Assy-Gas (Gasoline)	1
1	2076587	Kit-Ignition Cable (LH and RH)	1
2	1569538	Manifold (Intake)	1
3	1386187	Kit-Gasket	1
4	1316487	Shield	1
5	1389348	Bracket	1
6	1564845	Plug	8
7	18509	Capscrew	1
8	1383263	Cap	1
9	130845	Clamp	1
10	1401163	Hose	2
11	18537	Capscrew	1
12	15962	Fitting	1
13	1317468	Water Outlet	1
14	1569540	Thermostat (By Pass Type 197 degree with seal)	1
15	1389337	Strap (Alternator)	1
16	1319190	Temperature Sender	1
17	1527881	Capscrew	1
18	379407	Fitting	1
19	a 1386191	Ignition Coil	1
19	c 1564670	Ignition Coil	1
20	1527877	Capscrew	3
21	1559695	Distributor	1
22	150879	Fitting	1
23	1314381	Temperature Sender	1
24	1564035	Bracket	2
25	189338	Spacer	1
26	139743	Locknut	1
27	261379	Washer	2
28	1383229	Mount	1
29	15156	Lockwasher	1
30	18549	Capscrew	1
31	1377752	Tensioner	1
32	1383226	Plate	1
33	1377750	Pulley	1
34	320159	Washer	1
35	316826	Nut	1
36	1552141	Filler Neck	1
37	15127	Washer	5
38	15154	Lockwasher	5
39	133469	Capscrew	5
40	1383257	Bolt	12
41	1452376	Spark Plug	6
42	1316488	Shield	2
43	1316494	Shield	1
44	133696	Clamp	1
45	1673897	Dipstick Tube	1

ASSEMBLED ENGINE
GASOLINE, 4.3L EPA COMPLIANT – SHEET 1 OF 2

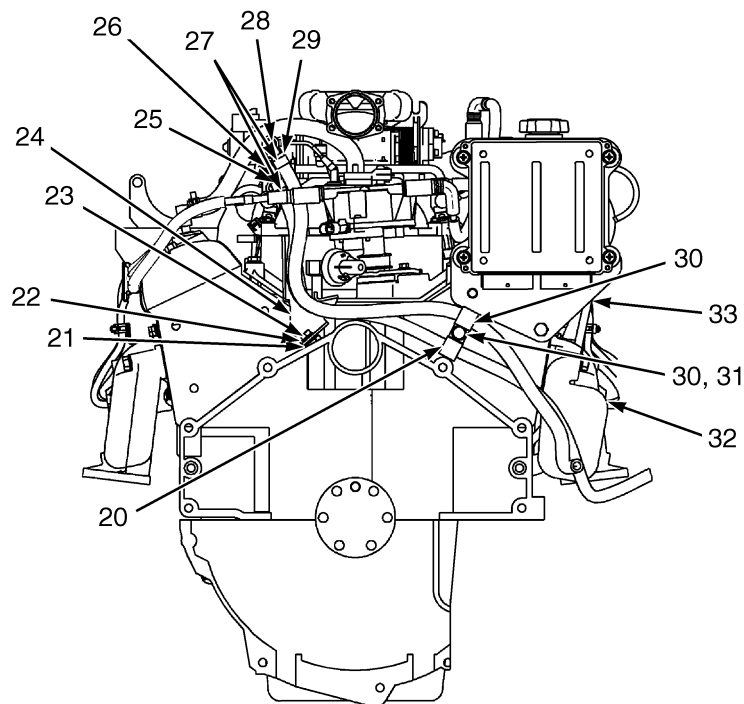
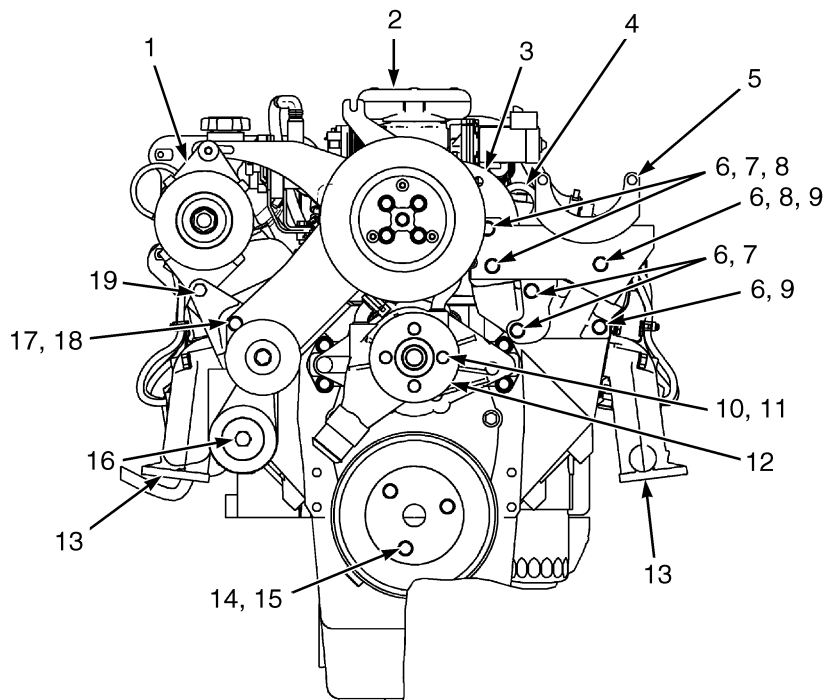
ITEM	PART NO.	DESCRIPTION	QTY
46	1510649	Dipstick	1
47	2063342	Engine Control Module	1
48	220359	Screw	4
49	15127	Washer	4
50	1567027	Isolator	4
51	15154	Lockwasher	4
52	221703	Nut	4

FOOTNOTES:**a** → S/N G006V01964B**b** → S/N G006V01965B**c** S/N G006V01965B →

NOTES

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ASSEMBLED ENGINE (FIGURE 2-12) GASOLINE, 4.3L EPA COMPLIANT — SHEET 2 OF 2



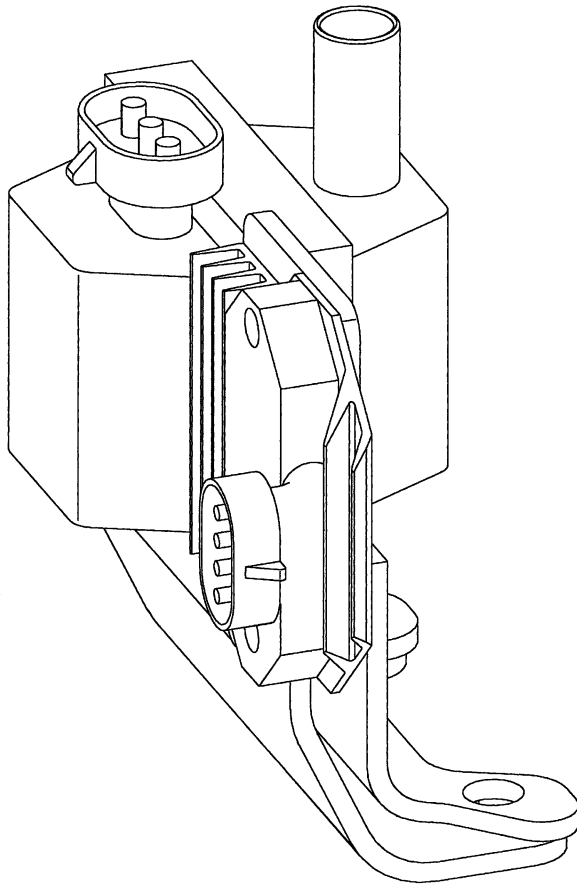
BP090265

ASSEMBLED ENGINE **GASOLINE, 4.3L EPA COMPLIANT – SHEET 2 OF 2**

ITEM	PART NO.	DESCRIPTION	QTY
	a 2064830	Engine Service Assy	1
	b 2073094	Engine Assy-Gas	1
	a 1543776	Engine Assy-Gas (Gasoline)	1
	b 1580857	Engine Assy-Gas (Gasoline)	1
1	1469597	Alternator	1
2		Gasoline Fuel System (☞ Figure 3-9).....	1
3	1383225	Plate	1
4	1383228	Plate	1
5	1461800	Starting Aid	1
6	15156	Lockwasher	6
7	16816	Capscrew	5
8	15056	Nut	3
9	16815	Capscrew	2
10	292681	Lockwasher	4
11	136681	Capscrew	4
12	1383204	Water Pump Pulley (Water Pump)	1
13	1502741	Exhaust Manifold	2
14	16634	Capscrew	3
15	15156	Lockwasher	3
16	292524	Capscrew	1
17	18547	Capscrew	1
18	15156	Lockwasher	1
19	18548	Capscrew	1
20	128408	Clamp	4
21	15175	Lockwasher	1
22	15155	Lockwasher	1
23	16663	Capscrew	1
24	1551680	Bracket	1
25	2065781	Hose (Fuel)	1
26	1546283	Elbow (5/16 90 degree Elbow)	1
27	168718	Clamp (Worm Screw)	2
28	1546285	Elbow (3/8 90 degree Elbow)	1
29	2065965	Hose (Fuel)	1
30	16598	Capscrew	4
31	15156	Lockwasher	4
32	1529010	Heat Shield	1
33	1570324	Bracket (ECM Mounting)	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

COIL ASSEMBLY (FIGURE 2-13)



BP090140

ITEM	PART NO.	DESCRIPTION	QTY
a	1386191	Ignition Coil	1
b	1564670	Ignition Coil	1
	1578517	Bracket	1
	1371237	Bolt	4
	1578518	Module	1
	1578519	Heatsink	1
	1578520	Screw	2
	1578521	Ignition Coil	1
	1374323	Nut	1
	1578522	Bracket	1

FOOTNOTES:

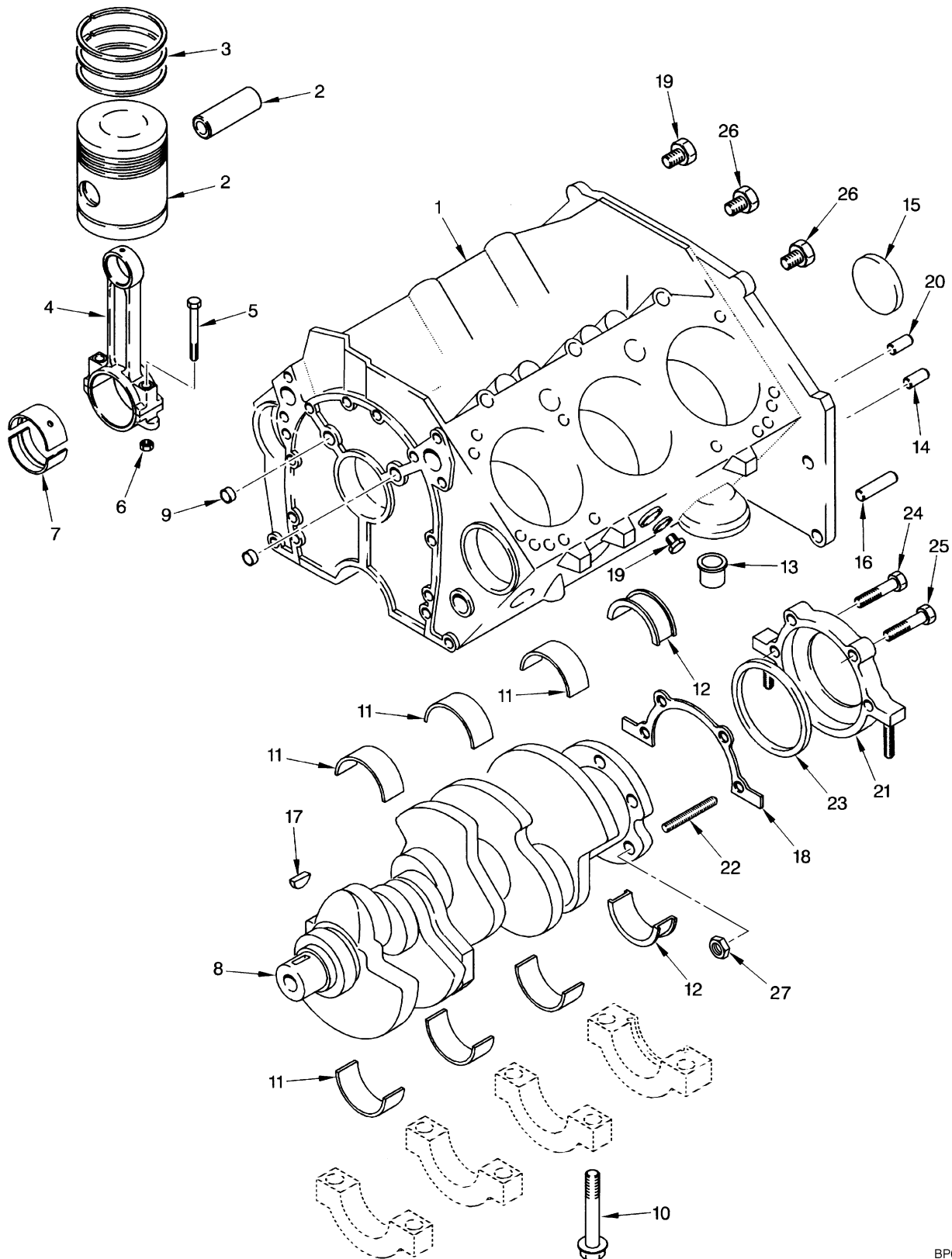
a S/N G006V01964B →

b S/N G006V01965B →

NOTES

[illegible]

CYLINDER BLOCK (FIGURE 2-14) GASOLINE AND LPG — 4.3L EPA COMPLIANT



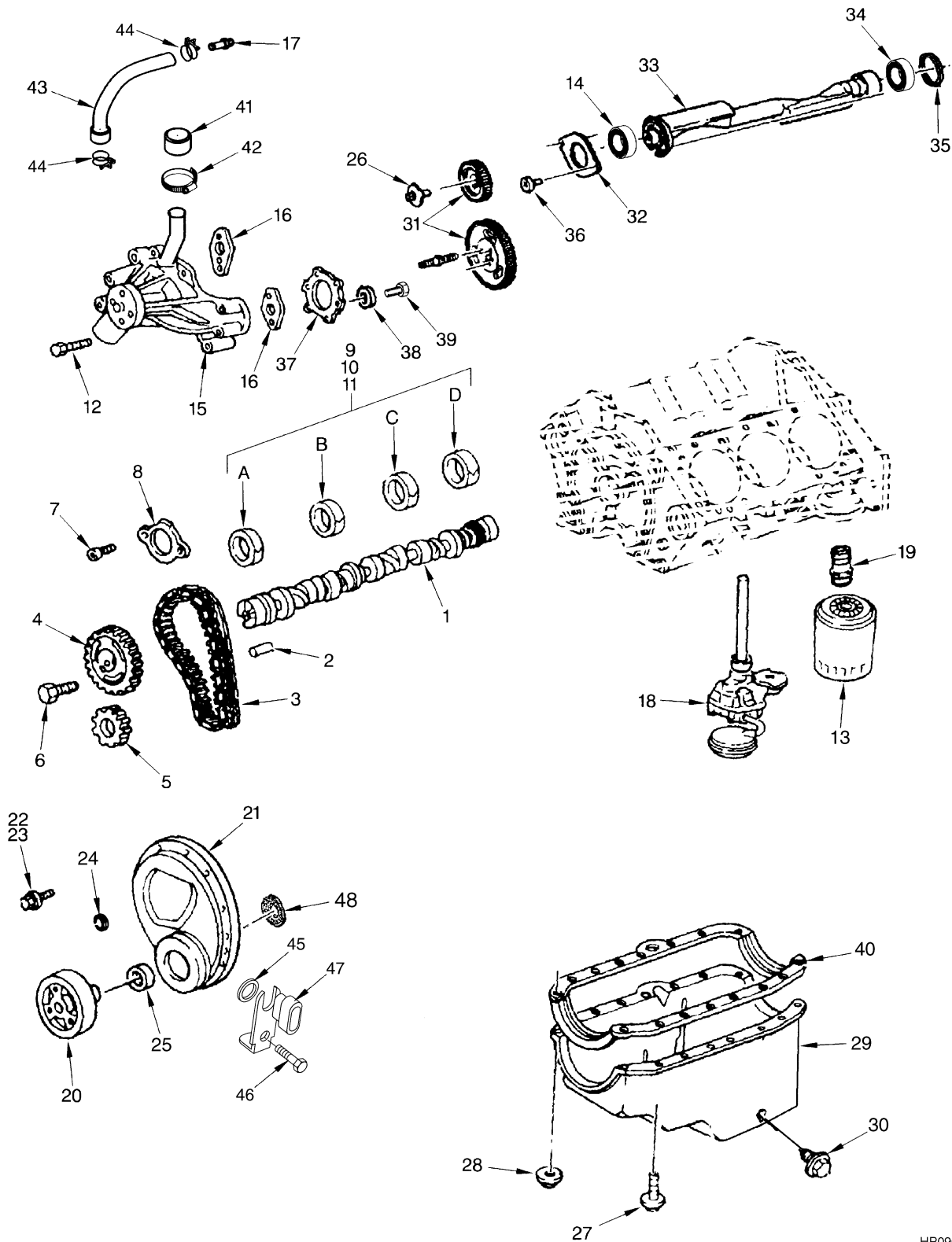
BP090113

CYLINDER BLOCK
GASOLINE AND LPG – 4.3L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
	a 1543776	Engine Assy-Gas (Gasoline)	1
	b 1580857	Engine Assy-Gas (Gasoline)	1
	a 1543978	Engine Assy-Lpg (LPG)	1
	b 1580856	Engine Assy-Lpg (LPG)	1
1		Short Block Assembly	1
2	1390759	Kit-Piston (Standard)	6
2	1390760	Kit-Piston (0.020 O/S) (0,5 mm)	6
3	1390761	Kit-Piston Ring (Standard)	6
3	1390765	Kit-Piston Ring (0.020 O/S) (0,5 mm)	6
4	1360179	Piston Rod	6
5	1360182	Bolt	2
6	1330450	Nut	2
7	1390770	Piston Rod Bearing (Connecting Rod) (Standard)	1
8	1460386	Crankshaft	1
9	388302	Plug (RH)	3
10	263842	Bolt	10
11	1558807	Kit-Crankshaft Bearing (Standard)	3
11	1460738	Kit-Crankshaft Bearing (0.020 in. O/S) (Crankshaft)	3
12	1390773	Kit-Crankshaft Bearing (0.001 in.) (Crankshaft)	1
13	1514968	Valve	1
14	159977	Pin	4
15	1374313	Plug	2
16	1335499	Pin	2
17	1451319	Key	1
18	1500884	Gasket	1
19	1514267	Plug	1
20	375601	Pin	1
21	1460330	Retainer	1
22	1450555	Stud	2
23	1460331	Seal	1
24	375575	Bolt	1
25	375602	Bolt	1
26	1331341	Plug	4
27	388313	Nut	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

CAMSHAFT AND OIL PAN (FIGURE 2-15) GASOLINE AND LPG — 4.3L EPA COMPLIANT



HP090252

**CAMSHAFT AND OIL PAN
GASOLINE AND LPG – 4.3L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
	c 1543776	Engine Assy-Gas (Gasoline)	1
	d 1580857	Engine Assy-Gas (Gasoline)	1
	c 1543978	Engine Assy-Lpg (LPG)	1
	d 1580856	Engine Assy-Lpg (LPG)	1
1	1456111	Camshaft	1
2	1374297	Pin	1
3	1471556	Kit-Repair Cable Chain	1
3		Timing Chain	1
4		Sprocket	1
5		Sprocket	1
6	1374301	Bolt	3
7	1374299	Bolt	2
8	1374298	Retainer	1
9	b 1454955	Bearing (Position A, D)	2
9	a 1454955	Bearing (Position A)	1
10	b 1454956	Bearing (Position C)	1
10	a 1454956	Bearing (Position B, D)	2
11	b 1454957	Bearing (Position B)	1
11	a 1454957	Bearing (Position C)	1
12	1383257	Bolt	5
13	1320000	Oil Filter	1
14	1374314	Bearing	1
15	1389100	Water Pump	1
16	263828	Gasket	2
17	1393350	Fitting	1
18	1386176	Engine Oil Pump (☞Figure 2-19).....	1
19	375587	Fitting	1
20	1514969	Damper	1
21	c 1514268	Engine Cover	1
21	d 1585183	Engine Cover (Front Cover)	1
21	1654480	Bracket	1
21	1654481	Engine Cover	1
22	c 1386179	Bolt	4
23	c 1377103	Bolt	2
24	c 1389092	Grommet	6
25	c 1377104	Seal	1
26	1374317	Bolt	6
27	1386183	Bolt	10
28	1360178	Nut	1
29	1471558	Oil Pan	1
30	1460757	Screw	1
30	1460758	Gasket	1
31	1374315	Kit-Gear	1
32	1374326	Retainer	1
33	1377107	Shaft	1
34	1451321	Bearing	1
35	1374313	Plug	2
36	1339963	Bolt	2
37	1460322	Gasket	1
38	369748	Washer	6

CAMSHAFT AND OIL PAN GASOLINE AND LPG – 4.3L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
39	1374108	Bolt	10
40	1386184	Gasket	1
41	1383263	Cap	1
42	130845	Clamp	1
43	1460332	Hose Assy	1
44	1471560	Clamp	2
45	1514964	O-Ring	1
46	1514965	Bolt	1
47	1514963	Sensor (Crankshaft Position)	1
48	1514962	O-Ring (Crankshaft Position Sensor)	1
	1460768	Kit-Bearing	1
	1454974	Bearing Set	1

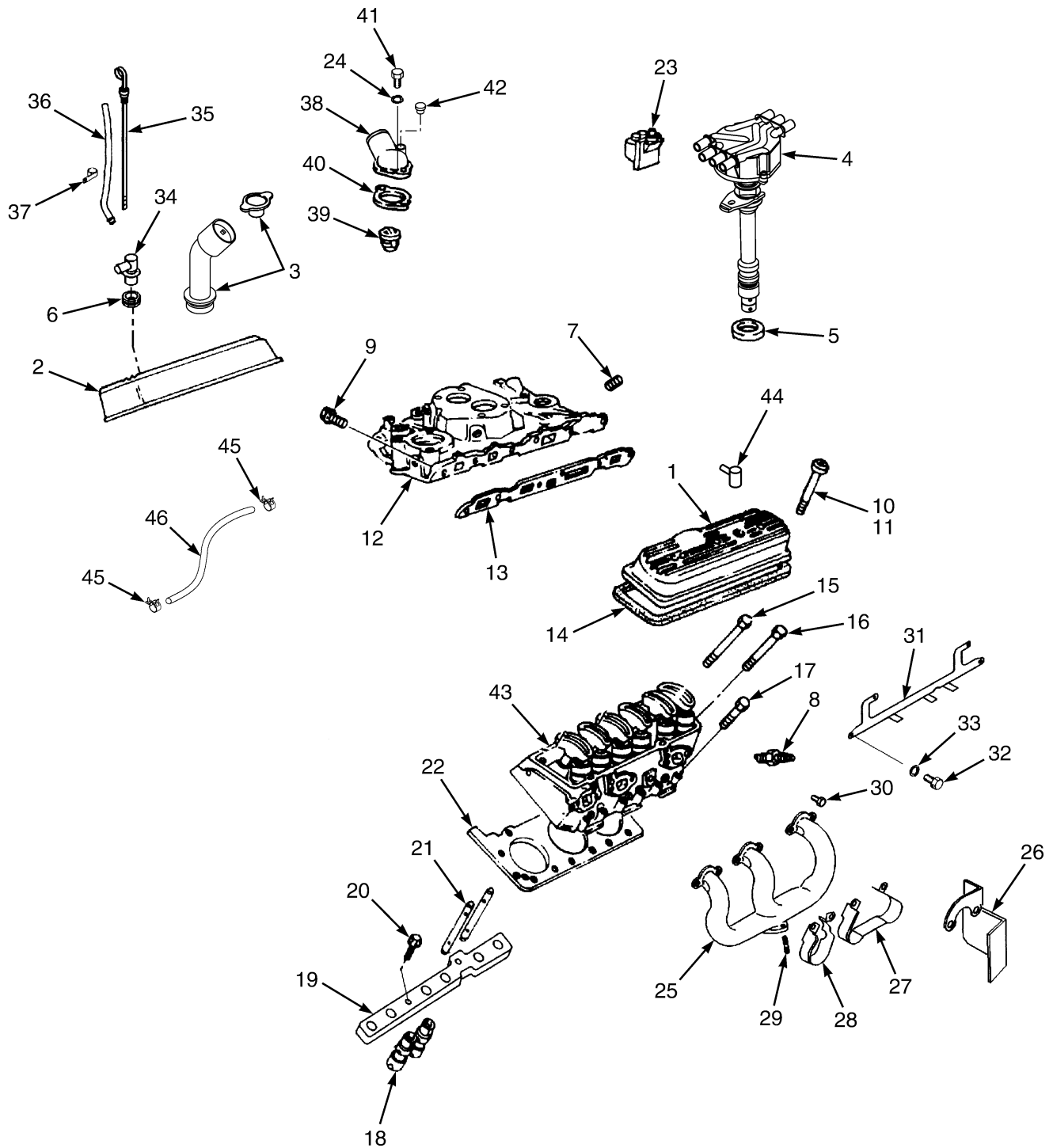
FOOTNOTES:

- a** GM Identification Number on Left Side of Rear
Transmission Housing Starts with "A" Followed by
8 Digits
- b** GM Identification Number on Left Side of Rear
Transmission Housing is 8 Digits
- c** → S/N G006V01964B
- d** S/N G006V019658B →

NOTES

[illegible]

VALVE COVER AND INLET MANIFOLD (FIGURE 2-16) GASOLINE AND LPG — 4.3L EPA COMPLIANT



HP091048

**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 4.3L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
	c 1543776	Engine Assy-Gas (Gasoline)	1
	d 1580857	Engine Assy-Gas (Gasoline)	1
	c 1543978	Engine Assy-Lpg (LPG)	1
	d 1580856	Engine Assy-Lpg (LPG)	1
1	1386185	Cover (LH)	1
2	1389102	Cover (RH)	1
3	1552141	Filler Neck	1
3	1374290	Cap	1
4	1559695	Distributor (☞Figure 4-8).....	1
5	1334423	Gasket	1
6	1374288	Grommet	3
7	1331341	Plug (LPG)	1
8	1452376	Spark Plug	6
9	1389093	Bolt (LPG)	8
10	1383904	Grommet	6
11	1374289	Bolt	6
12	1386186	Intake Manifold (Intake) (LPG)	1
12		Manifold (Intake) (Gasoline) (☞Figure 2-17).....	1
13	c 1386187	Kit-Gasket (LPG and Gasoline)	1
13	d 1386187	Kit-Gasket	1
13	c 1571571	Sealant	AR
14	1374293	Gasket	2
15	b 1377792	Bolt (Long)	10
16	b 1377793	Bolt (Medium)	4
17	b 1377794	Bolt (Short)	12
18	1471559	Valve Lifter	12
19	1389050	Guide	2
20	1389051	Bolt	2
21	1386189	Push Rod	12
22	1460333	Kit-Gasket (Cylinder Head)	1
23	c 1386191	Ignition Coil	1
23	d 1564670	Ignition Coil (☞Figure 2-13).....	1
24	15156	Lockwasher	5
25	1502741	Exhaust Manifold	2
26	1529010	Heat Shield	1
27	1316488	Shield	2
28	1316494	Shield	2
29	1398105	Stud	3
30	1383257	Bolt	12
31	1383241	Support	1
32	133469	Capscrew	4
33	15154	Lockwasher	4
34	379407	Fitting	1
35	1510649	Dipstick	1
36	1673897	Dipstick Tube	1
37	133696	Clamp	1
38	1317468	Water Outlet	1
	a 150879	Fitting	1
39	1450696	Thermostat (LPG)	1
39	1569540	Thermostat (By Pass Type 197 degree with seal) (Gasoline)	1

**VALVE COVER AND INLET MANIFOLD
GASOLINE AND LPG – 4.3L EPA COMPLIANT**

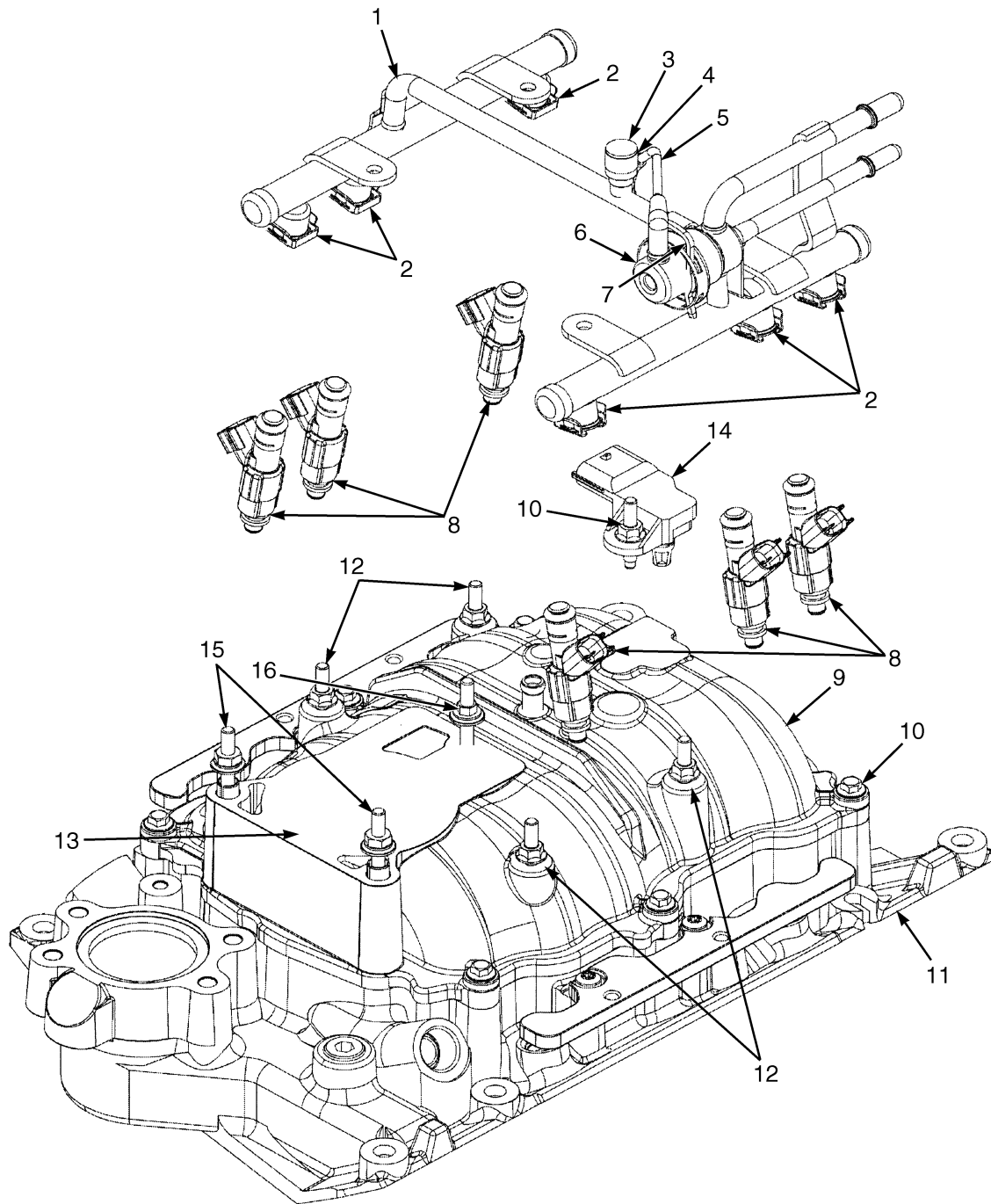
ITEM	PART NO.	DESCRIPTION	QTY
39		Seal	1
40	1330725	Gasket	1
41	16598	Capscrew	2
42	15962	Fitting	3
43	1471557	Cylinder Head	1
43	1482700	Cylinder Head (☞Figure 2-18).....	1
44	1600925	Fitting (90 Degree)	1
45	1471560	Clamp	2
46	1627354	Hose Assy	1

FOOTNOTES:**a** Not Illustrated**b** Quantity is listed for both heads**c** → S/N G006V01964B**d** S/N G006V01965B →

NOTES

[illegible]

INTAKE MANIFOLD AND FUEL RAIL (FIGURE 2-17) GASOLINE — 4.3L EPA COMPLIANT ENGINE



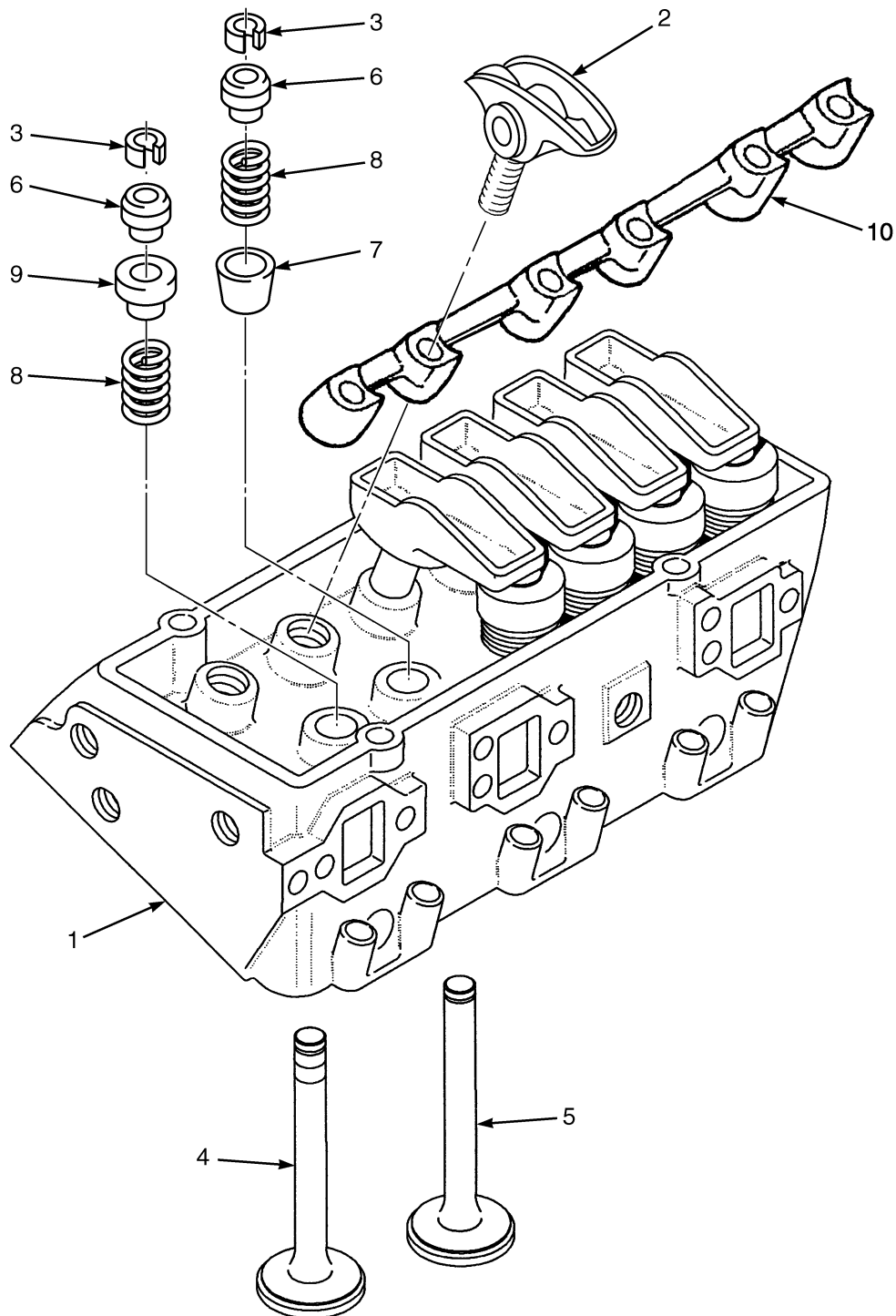
BP090124

**INTAKE MANIFOLD AND FUEL RAIL
GASOLINE – 4.3L EPA COMPLIANT ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1543776	Engine Assy-Gas (Gasoline)	1
	b 1580857	Engine Assy-Gas (Gasoline)	1
1	1559556	Fuel Rail	1
2	1559557	Clip	6
3	1559558	Cap	1
4	1559559	Pressure Valve	1
5	1559560	Hose	1
6	1559561	Regulator	1
7	1559562	Retainer	1
8	1559563	Injector	6
9	1559564	Manifold (Upper)	1
10	1358545	Bolt	7
11	1559565	Manifold (Lower)	1
12	1559566	Stud	4
13	1559570	Gasket	1
14	1559567	Sensor (Temperature manifold absolute pressure)	1
15	1559568	Bolt	2
16	1559569	Bolt	1
	1581809	Kit-Capscrew	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01964B →

CYLINDER HEAD (FIGURE 2-18) GASOLINE AND LPG — 4.3L EPA COMPLIANT

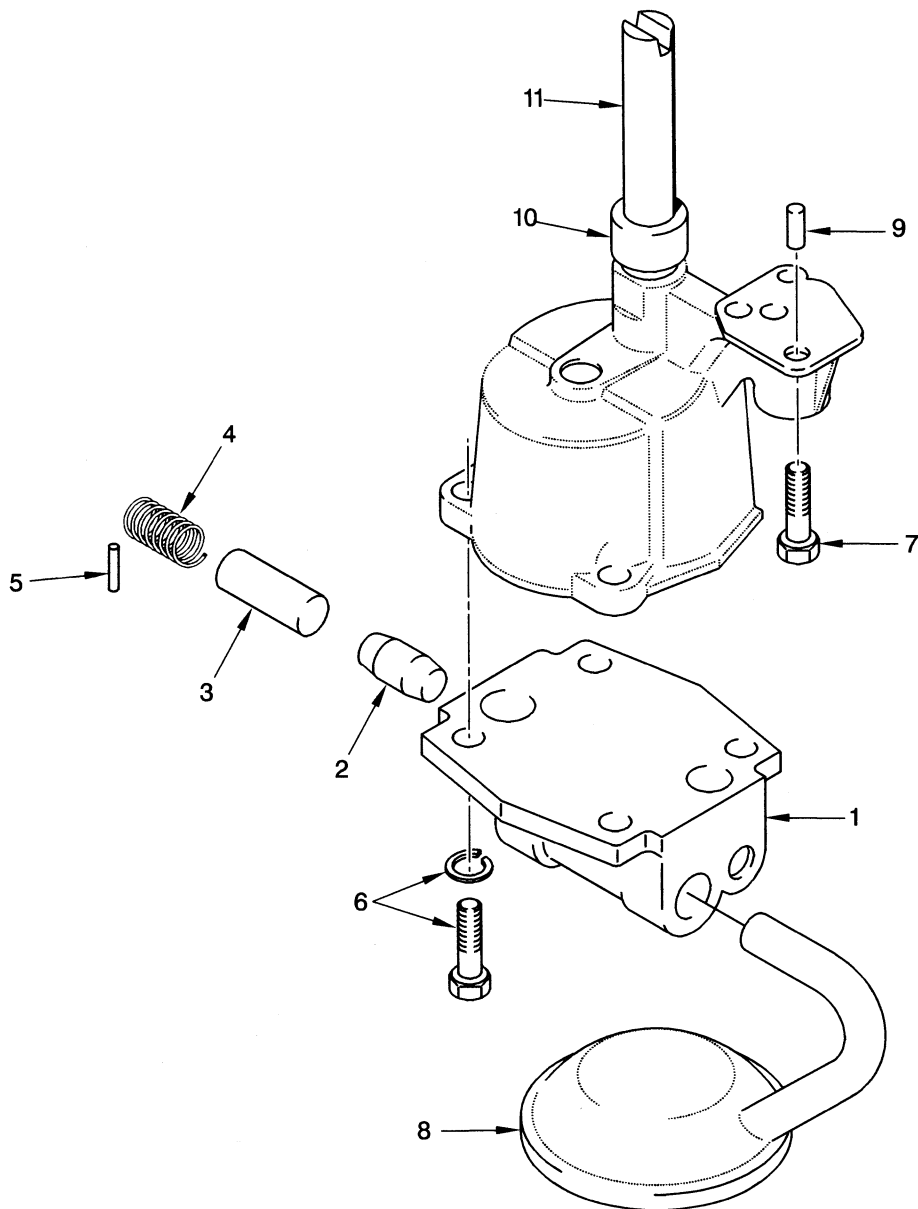


HP090254

**CYLINDER HEAD
GASOLINE AND LPG – 4.3L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1543776	Engine Assy-Gas (Gasoline)	1
	b 1580857	Engine Assy-Gas (Gasoline)	1
	a 1543978	Engine Assy-Lpg (LPG)	1
	b 1580856	Engine Assy-Lpg (LPG)	1
1	1471557	Cylinder Head (Gasoline)	2
1	1482700	Cylinder Head (LPG)	2
2	1471555	Rocker Arm	12
2	1389051	Bolt	4
3	1377110	Valve Stop (Valve)	24
4	1386194	Exhaust Valve (Gasoline)	6
4	1482701	Exhaust Valve (LPG)	6
5	1386195	Inlet Valve	6
6	1393127	Cap	12
7	1386197	Seal (Black) (Intake)	6
8	1386198	Spring	12
9	1460384	Seal (Orange) (Exhaust)	6
10	1489643	Support (Rocker Arm)	2

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V019658B →

OIL PUMP (FIGURE 2-19)
GASOLINE AND LPG — 4.3L EPA COMPLIANT

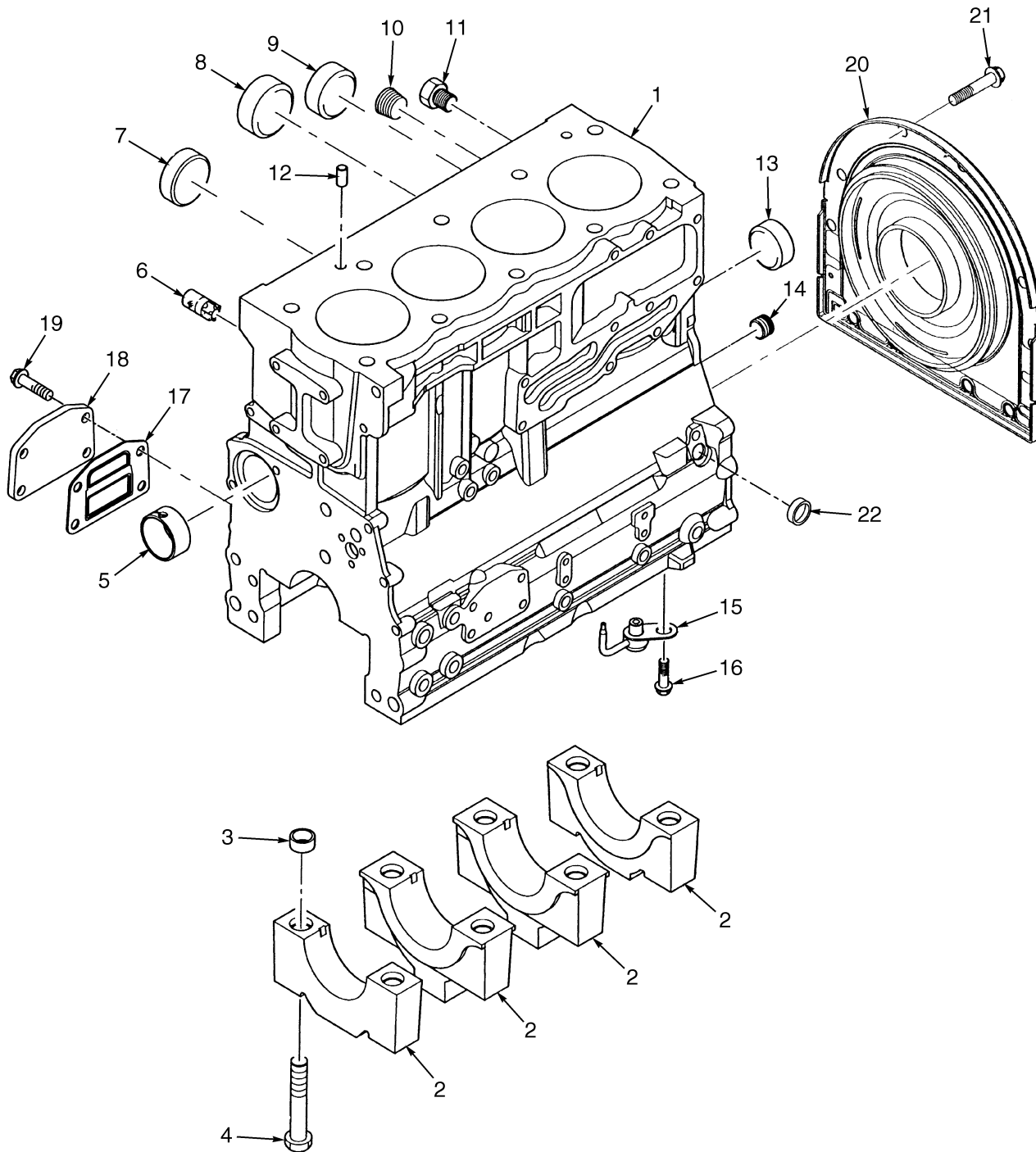
HP090044

OIL PUMP GASOLINE AND LPG – 4.3L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
	a 1543978	Engine Assy-Lpg (LPG)	1
	b 1580856	Engine Assy-Lpg (LPG)	1
	a 1543776	Engine Assy-Gas (Gasoline)	1
	b 1580857	Engine Assy-Gas (Gasoline)	1
	1386176	Engine Oil Pump	1
1	1374319	Cover	1
2	1338223	Stop	1
3	268573	Regulator Valve	1
4	1374320	Spring	1
5	1330453	Pin	1
6	1333541	Kit-Screw	2
7	388306	Bolt	1
8	1386177	Screen	1
9	1450941	Pin	1
10	263795	Retainer	1
11	263794	Shaft	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

CYLINDER BLOCK (FIGURE 2-20) DIESEL — TIER II



BP090101

**CYLINDER BLOCK
DIESEL – TIER II**

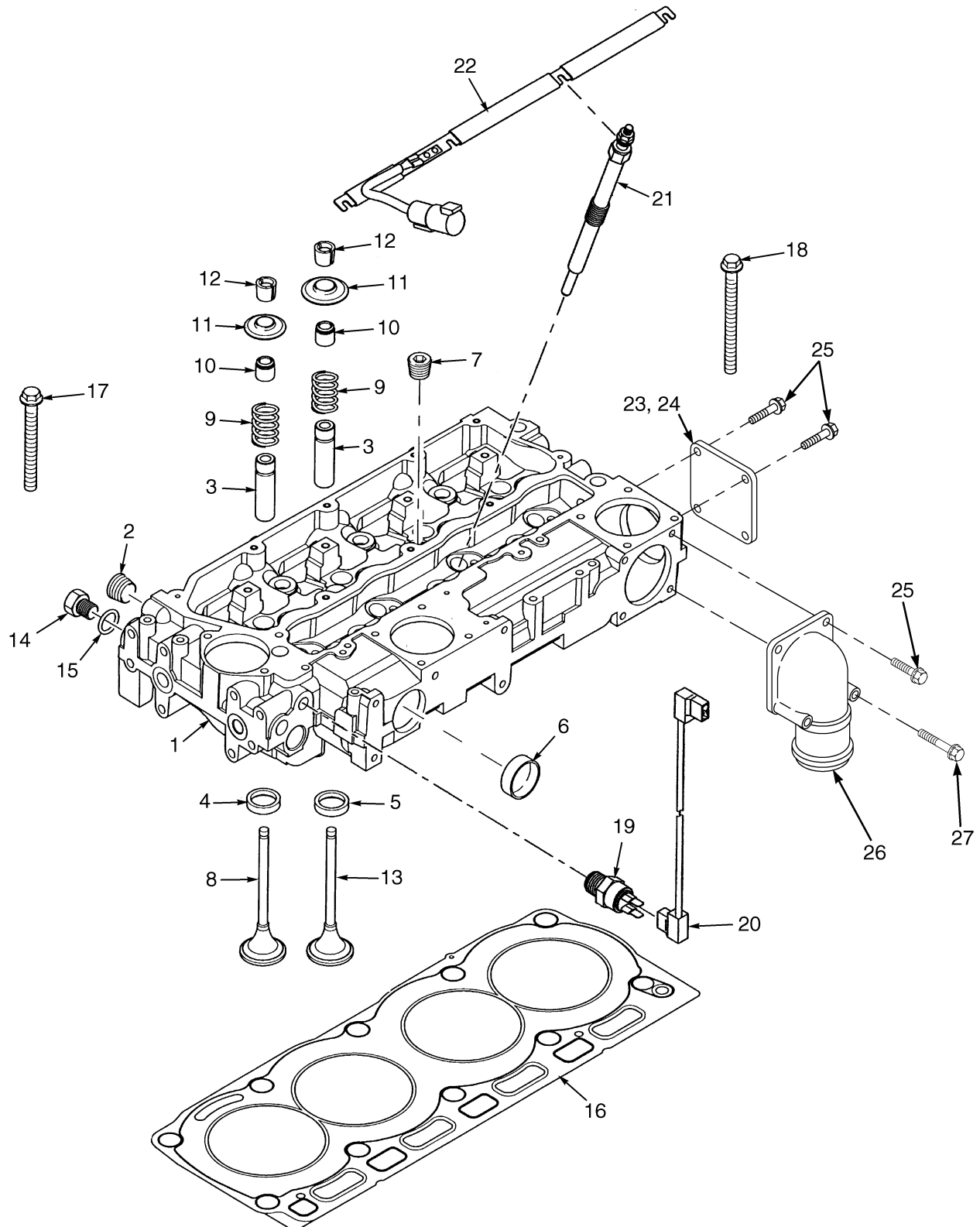
ITEM	PART NO.	DESCRIPTION	QTY
	b 1523800	Engine Assy-Diesel	1
	c 1572669	Engine Assy-Diesel	1
	d 1580443	Engine Assy-Diesel	1
1	1554974	Kit-Cylinder Block	1
2		Bearing Caps	5
3	99576	Thimble	10
4	16794	Capscrew	10
5	1554975	Bushing	1
6	1554981	Plug	1
7	1554980	Plug	1
8	1554977	Plug	2
9	980727	Plug	1
10	15304	Fitting	1
11	1554979	Plug	2
12	1456711	Dowel	2
13	1554976	Plug	1
14	1554978	Plug	1
15	1554982	Cooling Jet	4
16	1382546	Screw	4
17	1554984	Gasket	1
18	1554983	Plate	1
19	1307894	Screw	4
20	a 1555071	Housing	1
21	1537224	Bolt	10
22	1555421	Plug	1
	1644755	Kit-Gasket	1

FOOTNOTES:

a Seal is included in Housing
b → S/N G006V01872B

c S/N G006V01873B ↔ 12/2004
d 12/2004 →

CYLINDER HEAD AND INDUCTION MANIFOLD (FIGURE 2-21) DIESEL — TIER II



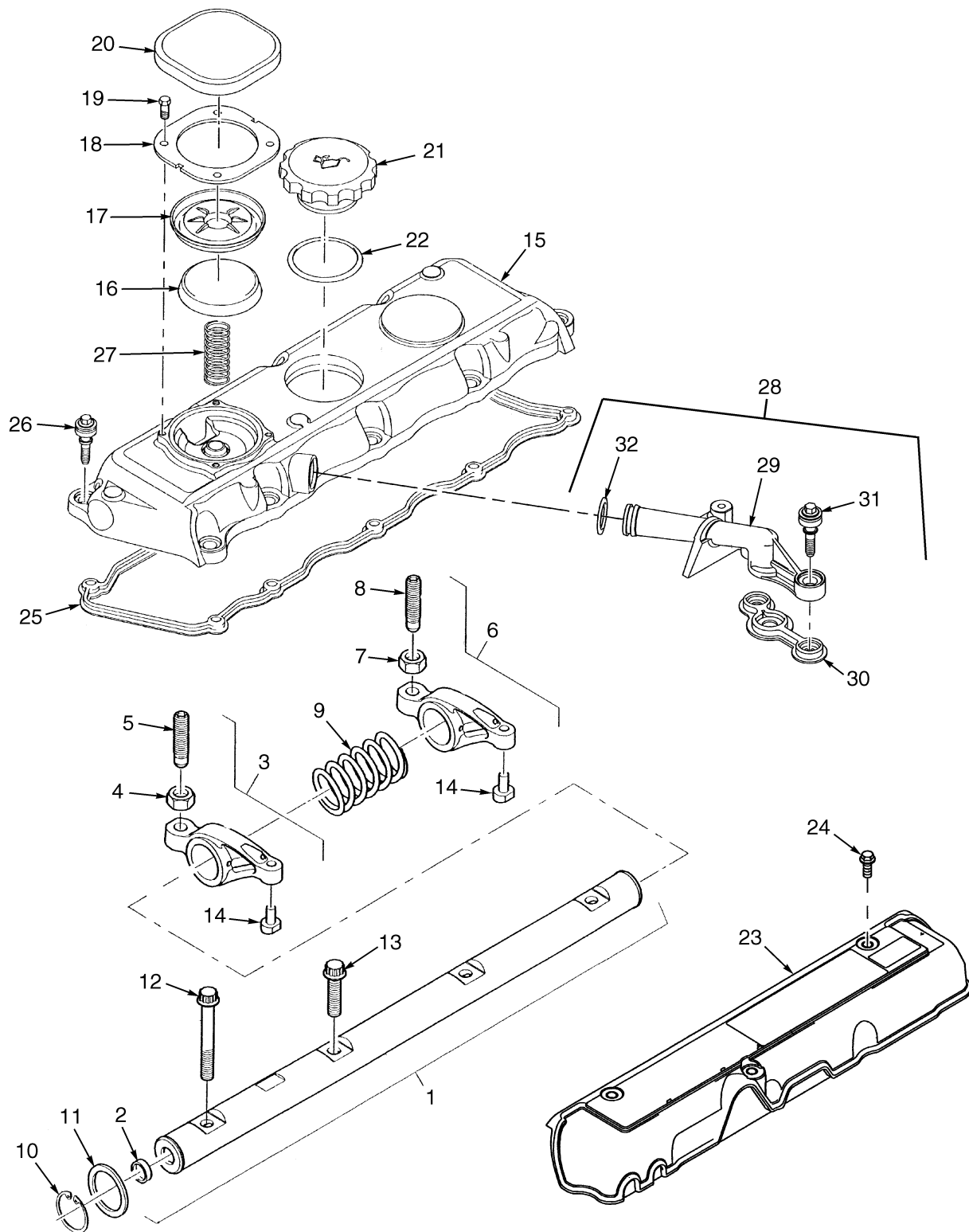
HP091050

**CYLINDER HEAD AND INDUCTION MANIFOLD
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1555072	Kit-Cylinder Head	1
2	15962	Fitting	1
3	1451629	Guide	8
4	1555073	Insert (Inlet)	4
5	1555074	Insert (Insert)	4
6	1388387	Plug	2
7	15304	Fitting	4
8	1555075	Inlet Valve	4
9	1555077	Spring	8
10	1614716	Seal	8
11	1555078	Cap	8
12	1451636	Keeper	16
13	1555079	Exhaust Valve	4
14	1555080	Plug	1
15	1537258	O-Ring	1
16	1644756	Cylinder Head Gasket	1
17	1555082	Screw	7
18	1555083	Screw	3
19	1555419	Sender (Coolant Temperature)	1
20	1555420	Cable	1
21	1555505	Glow Plug	4
22	1555506	Bar	3
23	1555689	Plate	3
24	1460209	Sealant	AR
25	1307894	Screw	14
26	1556774	Elbow	1
27	1556775	Screw	2
	1644755	Kit-Gasket	1

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

VALVE COVER AND ROCKER ARM SHAFT (FIGURE 2-22) DIESEL — TIER II



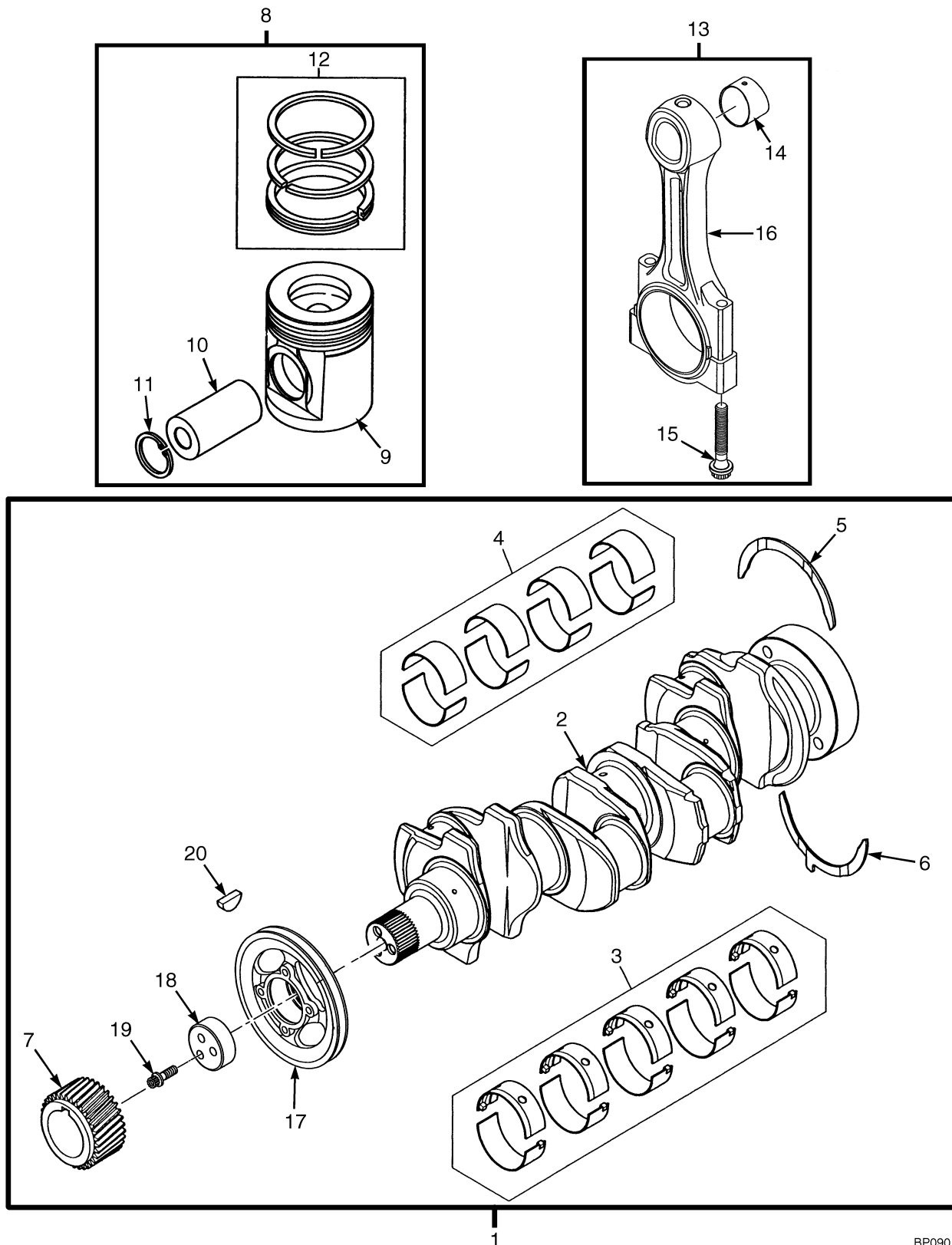
BP090102

**VALVE COVER AND ROCKER ARM SHAFT
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
	1555084	Rocker	1
1	1555085	Rocker Shaft	1
2	1555086	Plug	2
3	1555088	Rocker Arm	4
4	15026	Nut	1
5	1466859	Screw	1
6	1555092	Rocker Arm	4
7	15026	Nut	1
8	1466859	Screw	1
9	1555091	Spring	3
10	1555090	Snap Ring	2
11	1555094	Washer	2
12	1555095	Screw	1
13	1555096	Screw	3
14	1451636	Keeper	1
15	1555430	Engine Cover	1
16	1555434	Cap	1
17	1555435	Diaphragm	1
18	1555436	Plate	1
19	1555437	Screw	4
20	1555438	Cap	1
21	1391246	Cap	1
22	1516930	O-Ring	1
23	1555447	Cover	1
24	1306361	Screw	3
25	1555431	Gasket	1
26	1555432	Screw	10
27	1555433	Spring	2
28		Breather Pipe Assembly	1
29	1670198	Tube Assy	1
30	1555449	Gasket	1
31	1670199	Screw	2
32	1555451	O-Ring	1
	1644755	Kit-Gasket	1

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

CRANKSHAFT AND PISTONS (FIGURE 2-23) DIESEL — TIER II



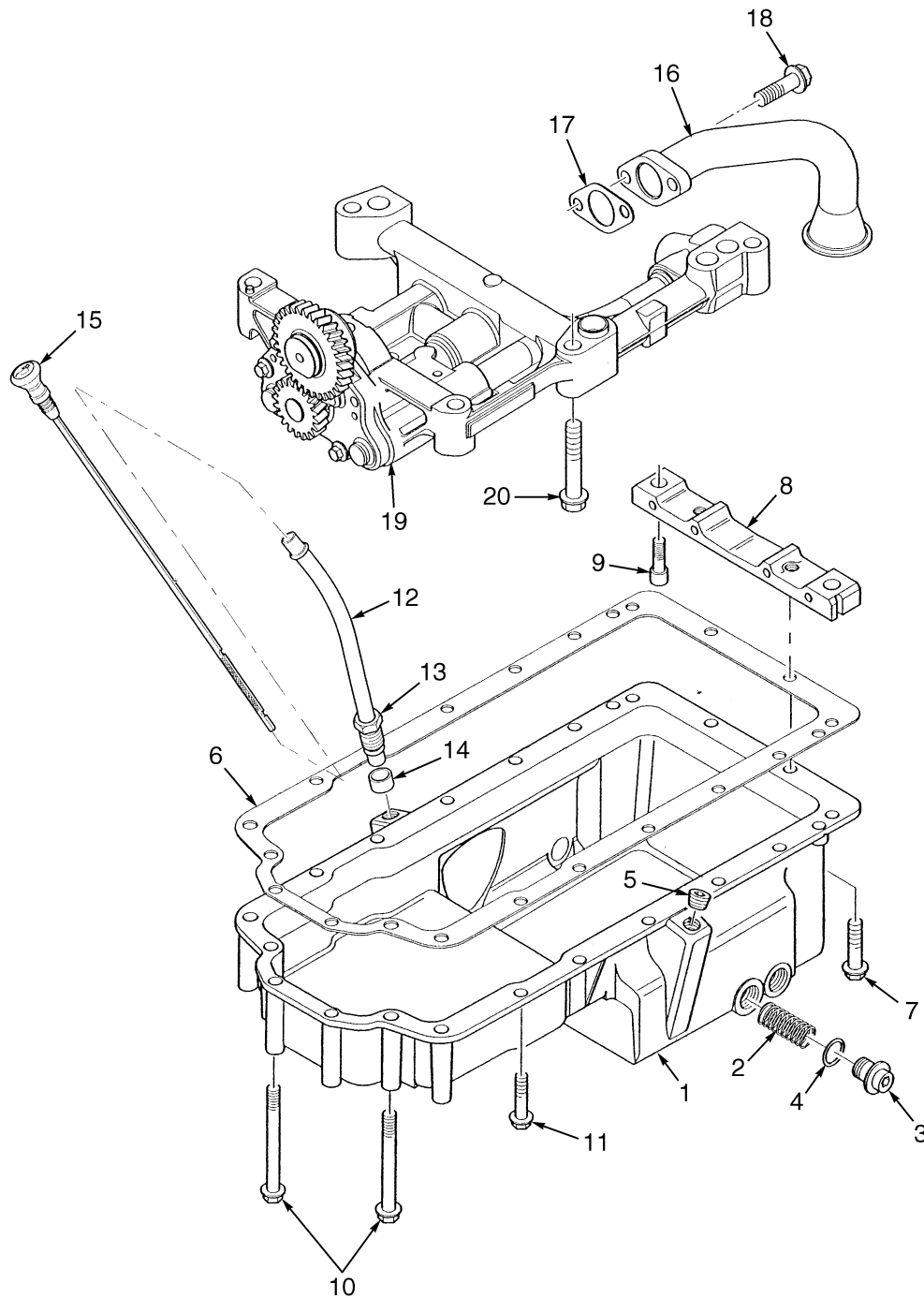
BP090103

**CRANKSHAFT AND PISTONS
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1554985	Crankshaft	1
2		Crankshaft	1
3	1554986	Kit-Crankshaft Bearing (Standard)	1
3	1554988	Kit-Crankshaft Bearing (.01 in.)	1
3	1554989	Kit-Crankshaft Bearing (.02 in.)	1
3	1554990	Kit-Crankshaft Bearing (.03 in.)	1
4	1554987	Kit-Bearing (Standard)	1
4	1554991	Kit-Bearing (.01 in.)	1
4	1554992	Kit-Bearing (.02 in.)	1
4	1554993	Kit-Bearing (.03 in.)	1
5	842799	Washer (Standard)	2
5	161296	Washer (0.007 in.)	2
6	842800	Washer (Standard)	2
6	161297	Thrust Washer (0.007 in.)	2
7	1537216	Gear	1
8	1554994	Kit-Piston	4
9		Piston	1
10		Pin	1
11	1451606	Snap Ring	2
12	1554995	Kit-Piston Ring	1
13	1555065	Kit-Piston Rod ("F Red")	4
13	1555066	Kit-Piston Rod ("G Orange")	4
13	1555067	Kit-Piston Rod ("H White")	4
13	1555068	Kit-Piston Rod ("J Green")	4
13	1555069	Kit-Piston Rod ("K Purple")	4
13	1555070	Kit-Piston Rod ("L Blue")	4
14	1555063	Bushing	1
15	1555064	Bolt	2
16		Connecting Rod	1
17	1306193	Pulley	1
18	1306194	Block	1
19	302713	Screw	3
20	99610	Key	1

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

OIL PAN AND PUMP (FIGURE 2-24) DIESEL — TIER II



BP090116

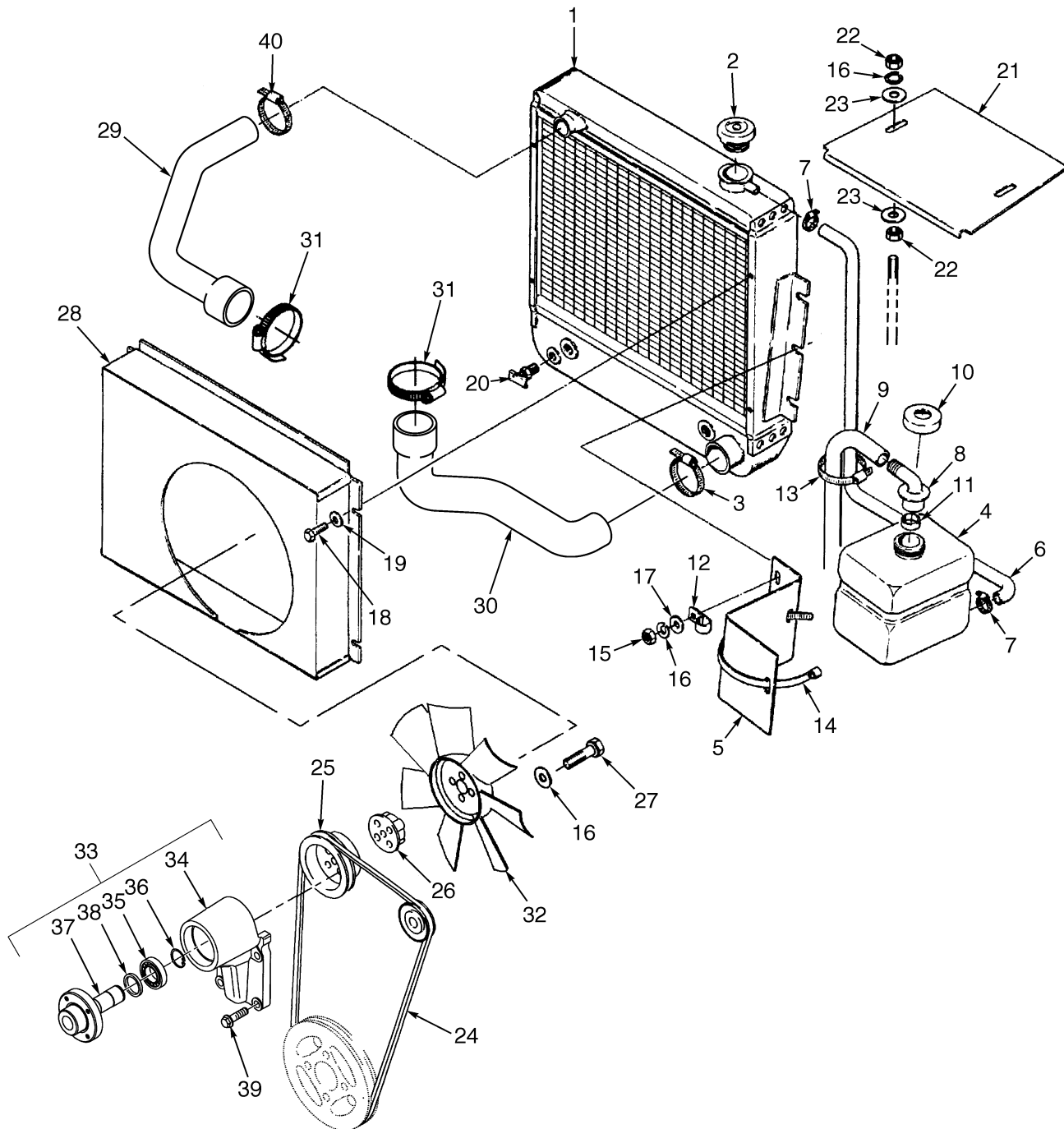
**OIL PAN AND PUMP
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	b 1523800	Engine Assy-Diesel	1
	d 1572669	Engine Assy-Diesel	1
	g 1580443	Engine Assy-Diesel	1
1	a 1460557	Oil Pan	1
1	c 1663487	Oil Pan	1
1	f 1671142	Engine Oil Pan	1
2	266465	Insert	2
3	377976	Plug	2
4	1306374	O-Ring	2
5	1377908	Plug	1
6	1555422	Gasket	1
7	1307894	Screw	2
8	1555423	Bridge	1
9	1307875	Screw	2
10	a 1318965	Screw	6
10	e 1318965	Screw	4
11	a 386459	Screw	12
11	e 386459	Screw	14
12	1385704	Tube	1
13	1307880	Nut	1
14	1306143	Olive	1
15	1557096	Dipstick	1
16	1555429	Pipe	1
17	1344921	Gasket	1
18	1306358	Screw	2
19	1555490	Engine Oil Pump	1
20	1306365	Screw	5
	1555729	Kit-Gasket	1

FOOTNOTES:**a** → 5/2007**b** → S/N G006V01872B**c** 5/2007 ↔ PENDING PER ECN 13374001**d** S/N G006V01873B ↔ 12/2004**e** 5/2007 →**f** PENDING PER ECN 13374001 →**g** 12/2004 →

COOLING AND FAN DRIVE (FIGURE 2-25)

DIESEL TIER II



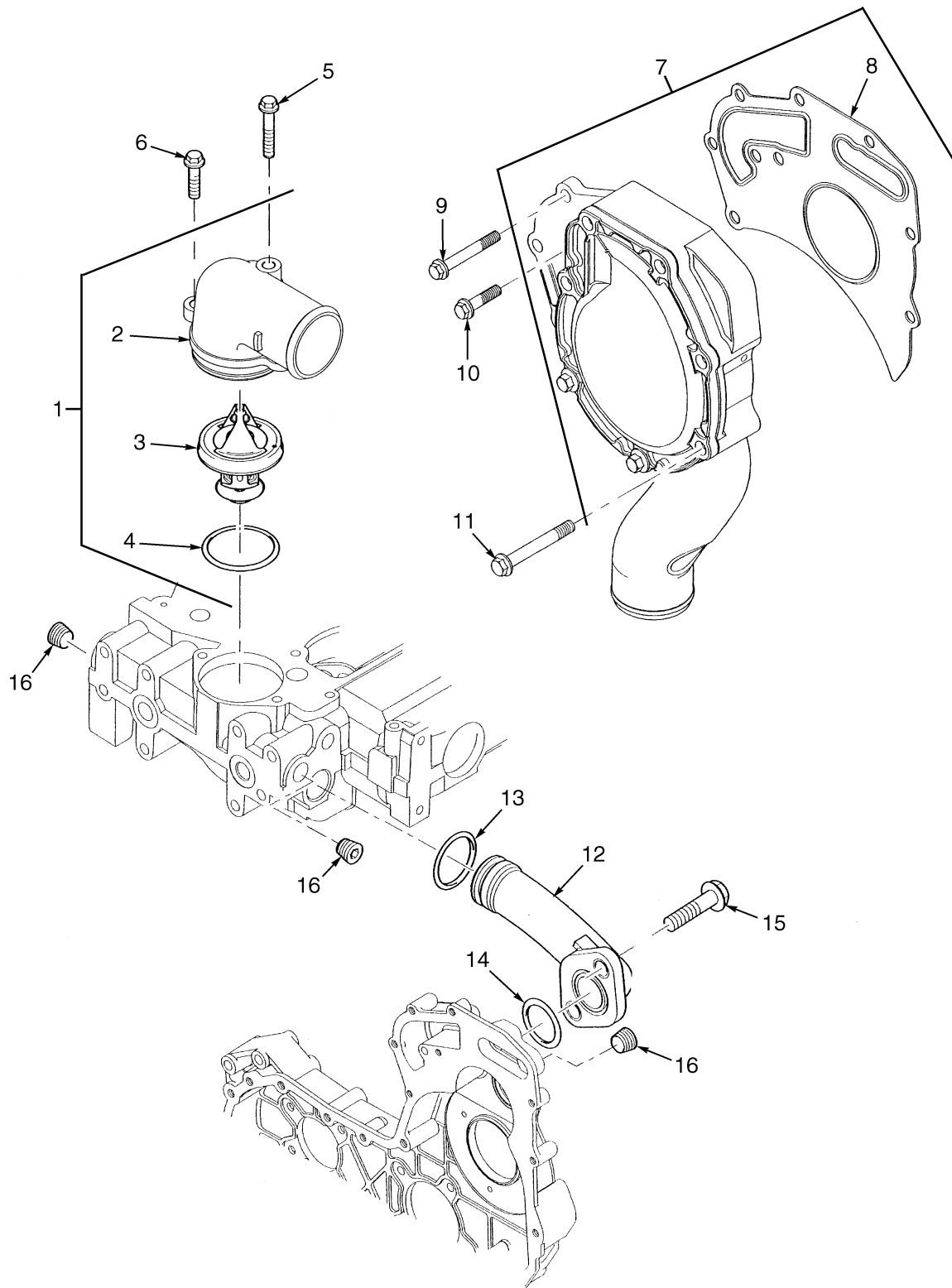
BP060016

**COOLING AND FAN DRIVE
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1456899	Radiator	1
2	178899	Radiator Cap (Radiator)	1
3	119236	Clamp	1
4	344432	Reservoir	1
5	340203	Bracket	1
6	1302955	Hose	1
7	353310	Clamp	2
8	1359581	Outlet	1
8	345453	Outlet (Reservoir)	1
9	1457312	Hose	1
10	345454	Cap	1
11	336550	Bushing	1
12	124297	Clamp	1
13	137852	Strap Clamp	1
14	340204	Strap	1
15	239503	Nut	4
16	292681	Lockwasher	10
17	320158	Washer	4
18	16073	Screw	4
19	15127	Washer	4
20	12815	Drain Valve (Drain)	1
21	350052	Cover	1
22	15055	Nut	4
23	221733	Washer	4
24	b 1455809	V-Belt	1
24	c 1588325	V-Belt Set	1
25	a 1455578	Fan Pulley	1
26	1455580	Spacer (Fan)	1
27	292511	Capscrew	4
28	377342	Shroud	1
29	1528969	Radiator Hose (Upper)	1
30	1528944	Radiator Hose (Lower)	1
31	119236	Clamp	2
32	377331	Fan	1
33	1556761	Housing	1
34		Housing	4
35		Bearing	1
36	1555090	Snap Ring	1
37		Hub	1
38		Spacer	1
39	1315499	Screw	4
40	119236	Clamp	1

FOOTNOTES:**a** → 12/2004**c** S/N G006V01873B →**b** → S/N G006V01872B

WATER PUMP AND OUTLET (FIGURE 2-26) DIESEL — TIER II



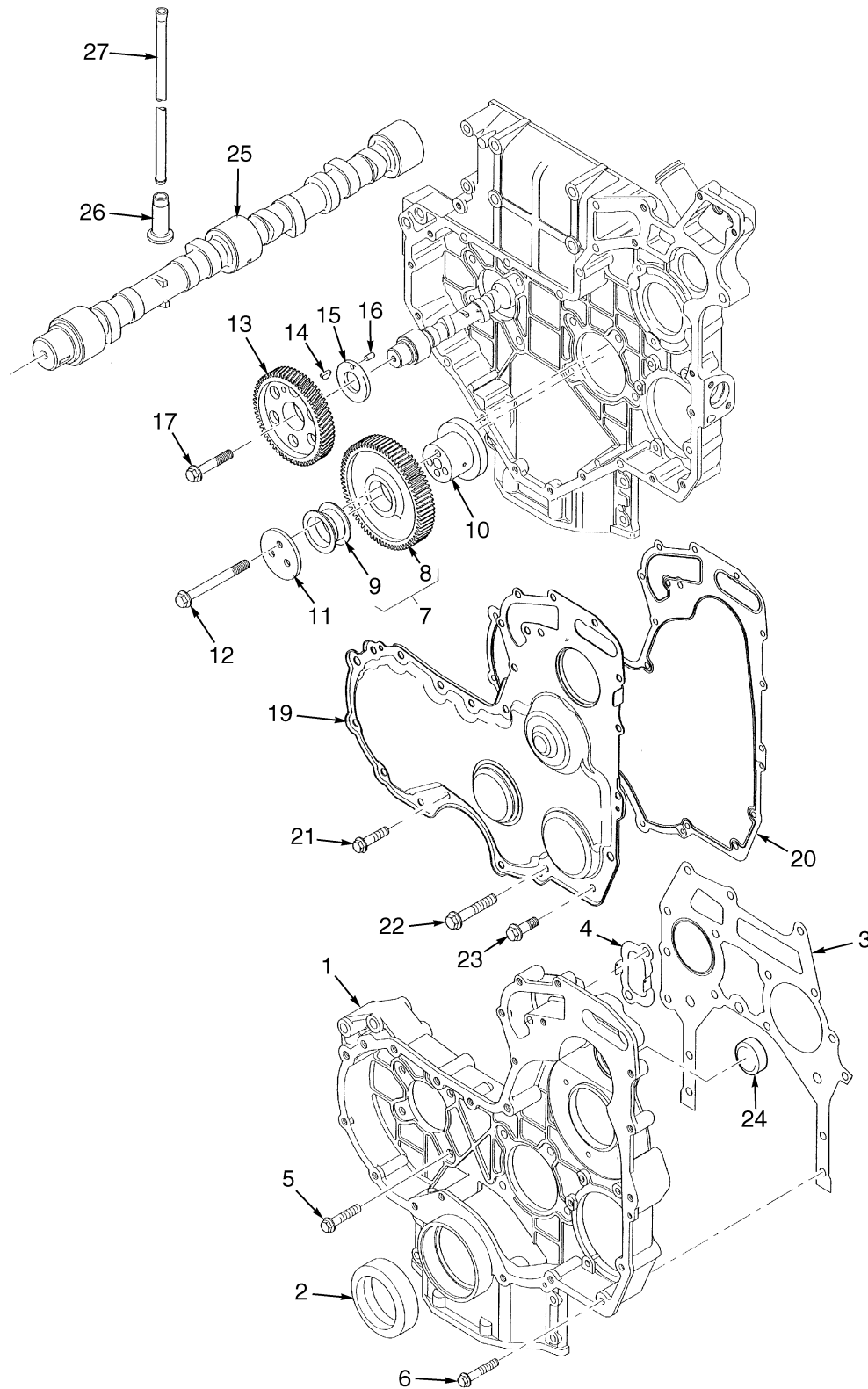
BP090117

**WATER PUMP AND OUTLET
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1614715	Thermostat	1
1		Thermostat	1
2		Housing	1
4	1555478	O-Ring	1
5	1307909	Screw	1
6	1306358	Screw	1
7	1555464	Kit-Water Pump Replacement	1
7	1555466	Gear	1
7	1555468	Kit-Water Pump Repair	1
8	1555467	Gasket	1
9	1380261	Screw	2
10	1306362	Screw	2
11	1307909	Screw	2
12	1555471	Fitting	1
13	1555472	O-Ring	1
14	1555473	O-Ring	1
15	386459	Screw	2
16	15962	Fitting	3

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

TIMING GEAR (FIGURE 2-27) DIESEL — TIER II



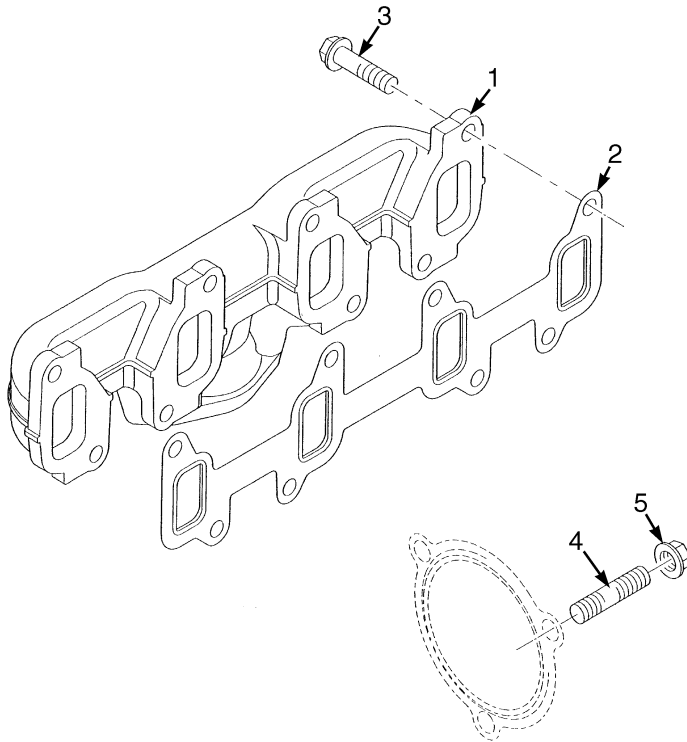
BP090106

**TIMING GEAR
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1555482	Timing Case	1
2	350399	Seal	1
3	1555483	Gasket	1
4	1555484	Gasket	1
5	386459	Screw	8
6	1306354	Screw	4
7	1580079	Gear	1
8		Idler Gear	1
9	983484	Bushing	2
10	229875	Hub	1
11	1580082	Plate	1
12	1306368	Screw	3
13	1537297	Gear	1
14	99610	Key	1
15	1306364	Washer	1
16	298096	Dowel	1
17	1328565	Screw	1
18	1555486	Thrust Washer (Not Illustrated)	1
19	1555487	Cover	1
20	1555488	Gasket	1
21	1307881	Screw	9
22	1307909	Screw	5
23	1306371	Screw	1
24	1555452	Plug	1
25	1555098	Camshaft	1
26	224248	Tappet	8
27	99728	Rod	8
	1555729	Kit-Gasket	1
	1580086	Idler Gear	1

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

EXHAUST MANIFOLD (FIGURE 2-28) DIESEL — TIER II



BP090107

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1555491	Exhaust Manifold	1
2	1555492	Gasket	1
3	1516677	Screw	8
4	1307877	Stud	3
5	1306370	Nut	3

FOOTNOTES:

a → S/N G006V01872B

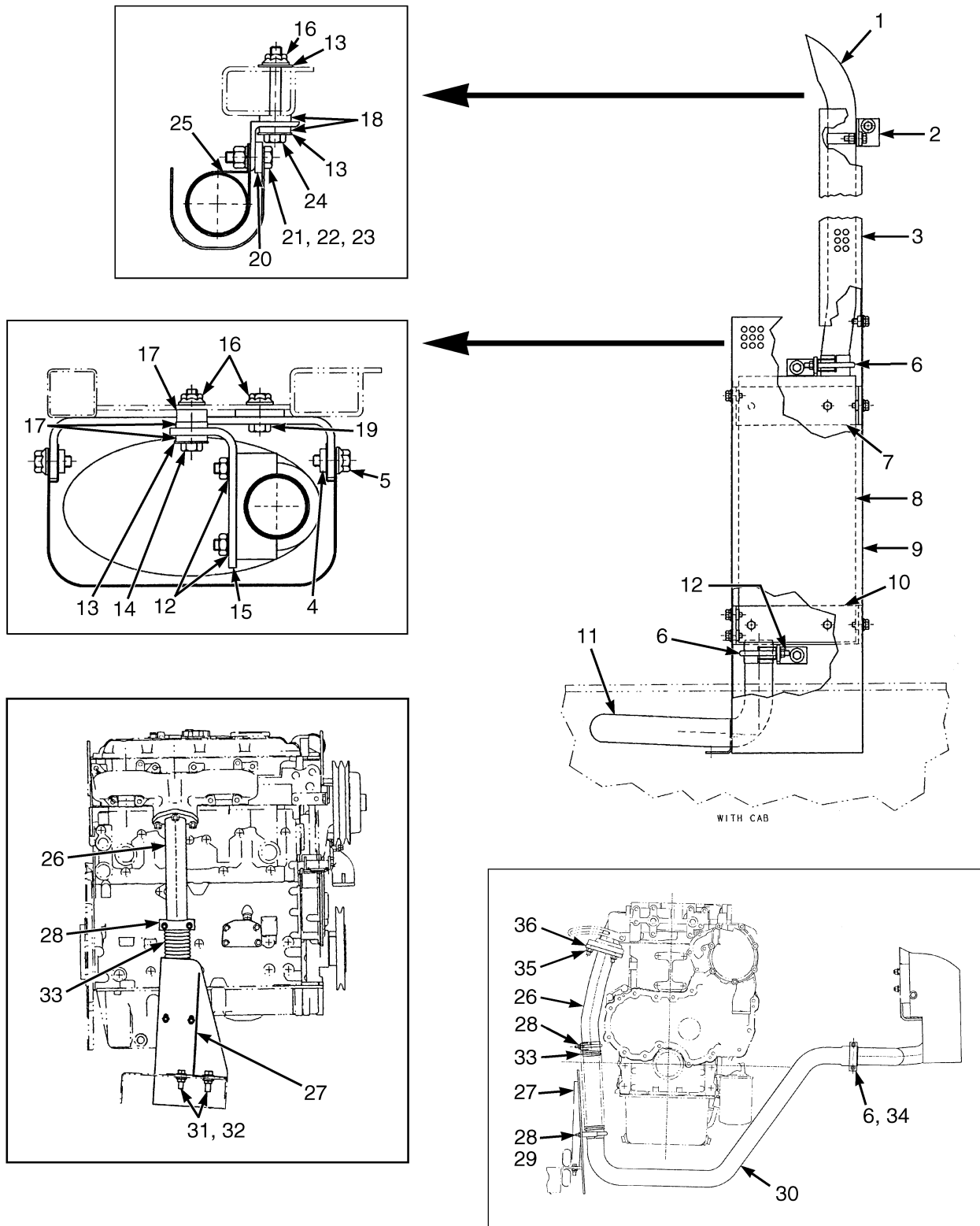
c 12/2004 →

b S/N G006V01873B ↔ 12/2004

NOTES

[illegible]

EXHAUST DIESEL (FIGURE 2-29) WITH CAB — TIER II ENGINE



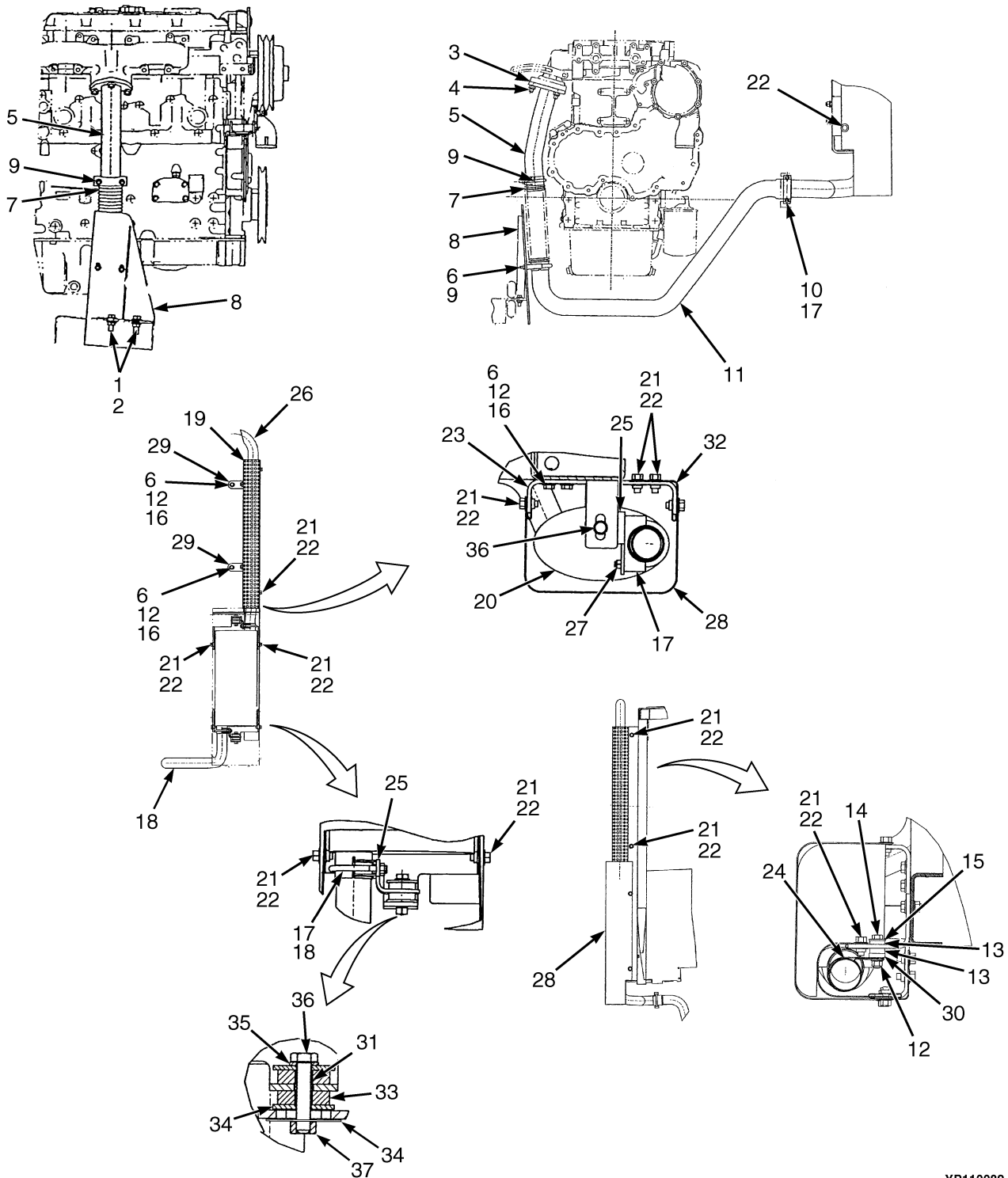
YP110083

**EXHAUST DIESEL
WITH CAB – TIER II ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	369129	Exhaust Pipe	1
2	369135	Bracket	1
3	369127	Exhaust Shield	1
4	269200	Nut	6
5	399066	Screw	6
6	30370	Clamp	3
7	377616	Bracket Wldmt	1
8	367266	Muffler	1
9	1392553	Shield	1
10	377617	Bracket Wldmt	1
11	1541597	Exhaust Pipe	1
12	1388300	Lockwasher	4
13	15176	Lockwasher	4
14	16816	Capscrew	2
15	1375986	Bracket	2
16	192077	Nut	6
17	379952	Spacer	2
18	223216	Bushing	6
19	16805	Capscrew	3
20	107151	Washer	1
21	15056	Nut	1
22	15156	Lockwasher	1
23	16828	Capscrew	1
24	18540	Capscrew	1
25	369136	Clamp	1
26	1529022	Exhaust Pipe	1
27	1541601	Bracket Wldmt	1
28	222899	Clamp	2
29	15134	Washer	2
30	1541599	Exhaust Pipe	1
31	1527884	Capscrew	2
32	1460477	Nut	2
33	a 292841	Flex Tube	1
33	b 1636096	Flex Tube	1
34	320157	Washer	2
35	1306370	Nut	3
36	1355319	Gasket	1

FOOTNOTES:**a** → S/N G006V04476D**b** S/N G006V04477D →

EXHAUST DIESEL (FIGURE 2-30) WITHOUT CAB — TIER II ENGINE

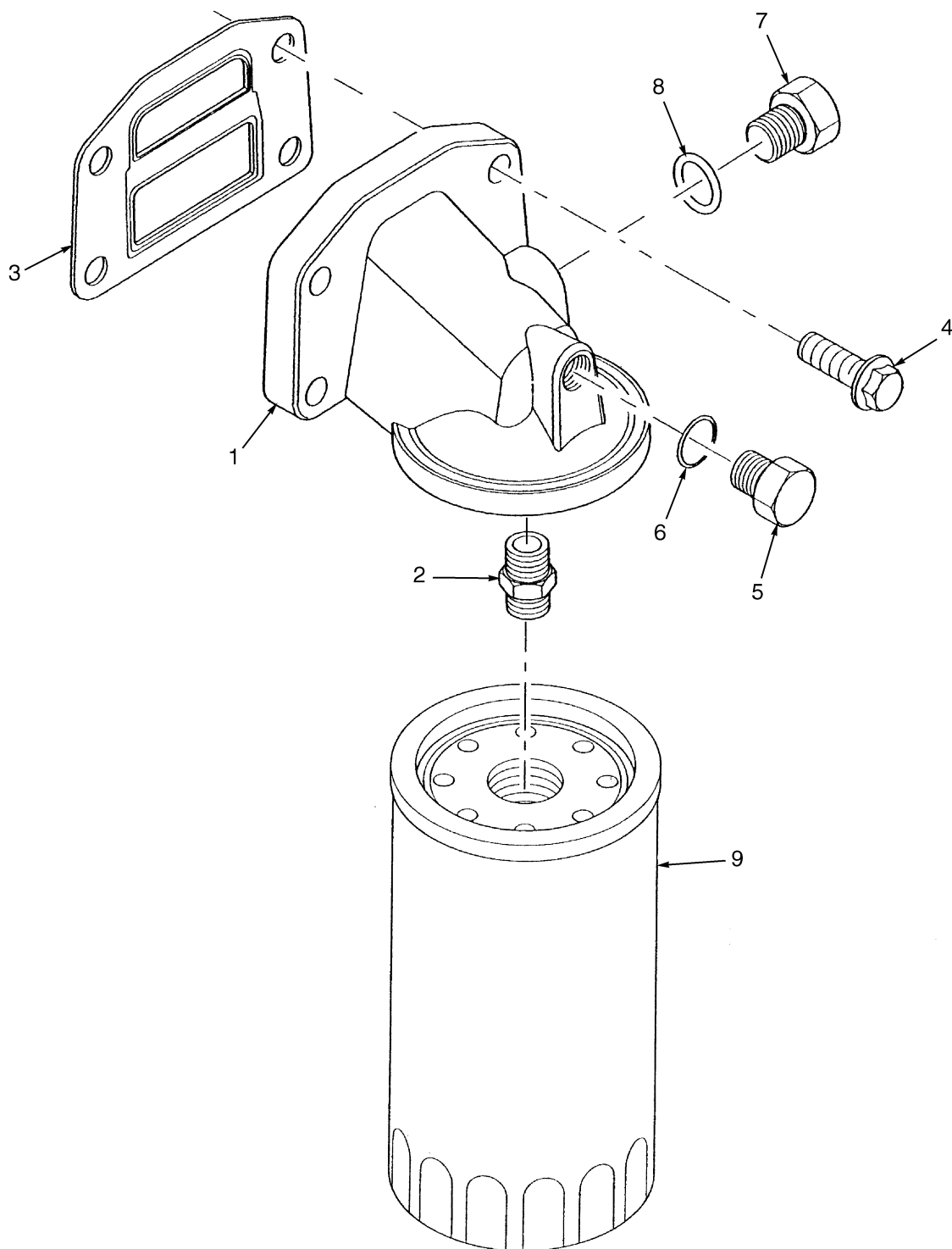


YP110082

**EXHAUST DIESEL
WITHOUT CAB – TIER II ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1527884	Capscrew	2
2	1460477	Nut	2
3	1355319	Gasket	1
4	1306370	Nut	3
5	1529022	Exhaust Pipe	1
6	15134	Washer	8
7	a 292841	Flex Tube	1
7	b 1636096	Flex Tube	1
8	1541601	Bracket Wldmt	1
9	222899	Clamp	2
10	320157	Washer	2
11	1541599	Exhaust Pipe	1
12	192077	Nut	8
13	223216	Bushing	4
14	16816	Capscrew	2
15	15176	Lockwasher	2
16	16805	Capscrew	6
17	30370	Clamp	6
18	1554943	Exhaust Pipe	1
19	1523680	Exhaust Shield	1
20	367266	Muffler	1
21	269200	Nut	10
22	134803	Screw	10
23	1554942	Bracket	4
24	369136	Clamp	2
25	1554941	Bracket	2
26	369129	Exhaust Pipe	1
27	1388300	Lockwasher	4
28	1499677	Guard	1
29	1499674	Bracket	2
30	107151	Washer	2
31	1553420	Spacer	2
32	1500402	Guard	1
33	1351177	Rubber Cushion	4
34	1351176	Washer	6
35	320157	Washer	2
36	292509	Capscrew	2
37	313828	Nut	2

FOOTNOTES:**a** → S/N G006V04476D**b** S/N G006V04477D →

OIL FILTER (FIGURE 2-31)
DIESEL — TIER II

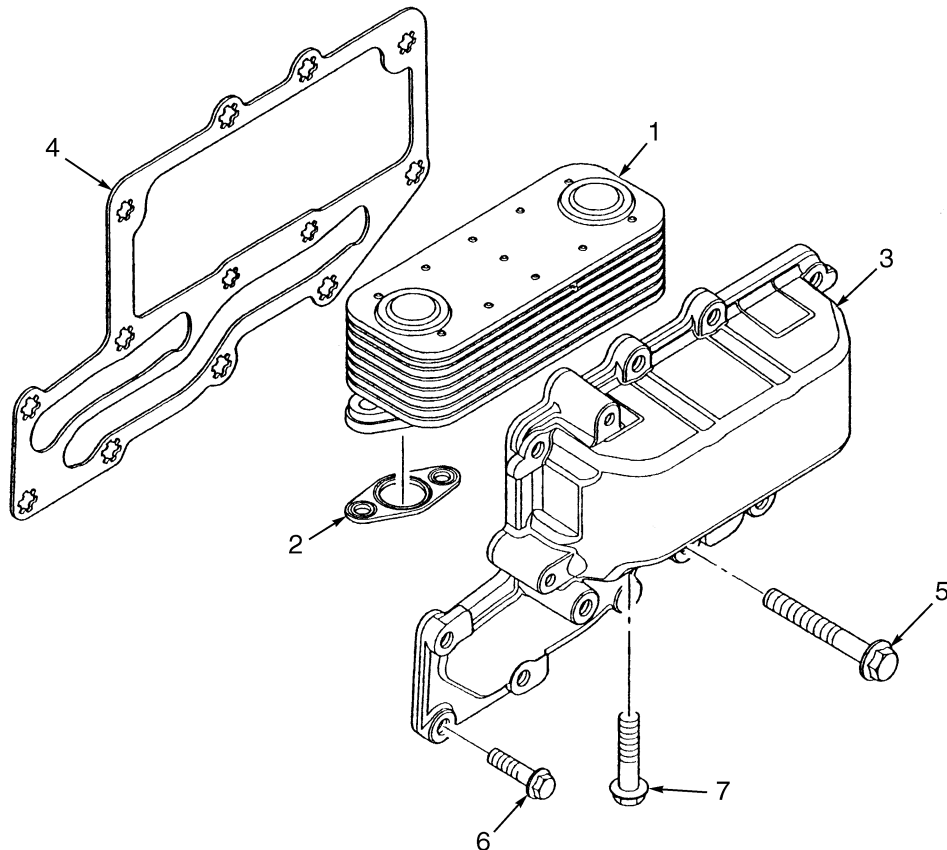
BP090108

**OIL FILTER
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
1	1555457	Filter Head	1
2	1382954	Fitting	1
3	1554984	Gasket	2
4	1306354	Screw	4
5	1555459	Plug	1
6	1555460	O-Ring	1
7	1555461	Plug	1
8	1537265	O-Ring	1
9	1327905	Oil Filter	1
	1555729	Kit-Gasket	1

FOOTNOTES:**a** → S/N G006V01872B**c** 12/2004 →**b** S/N G006V01873B ↔ 12/2004

OIL COOLER (FIGURE 2-32) DIESEL — TIER II



BP090109

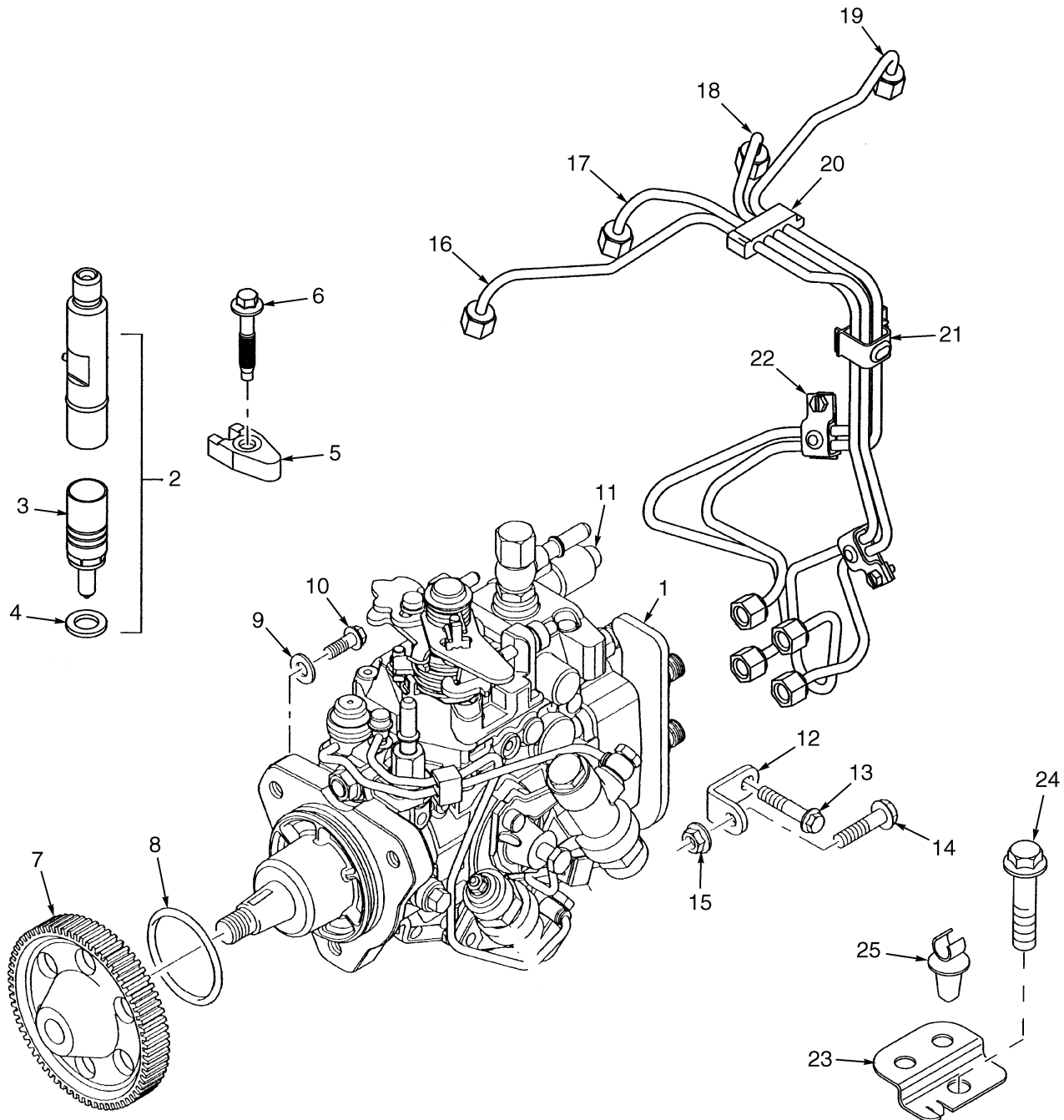
ITEM	PART NO.	DESCRIPTION	QTY
	a 1523800	Engine Assy-Diesel	1
	b 1572669	Engine Assy-Diesel	1
	c 1580443	Engine Assy-Diesel	1
	1555453	Oil Cooler	1
1	1555454	Oil Cooler	1
2	1555455	Gasket	2
3		Housing	1
4	1614717	Gasket	1
5	1318968	Screw	3
6	1306358	Screw	10
7	1306373	Screw	4
	1555729	Kit-Gasket	1

FOOTNOTES:

- a** → S/N G006V01872B
b S/N G006V01873B ↔ 12/2004

c 12/2004 →

FUEL INJECTION PUMP (FIGURE 2-33) DIESEL — TIER II



BP090110

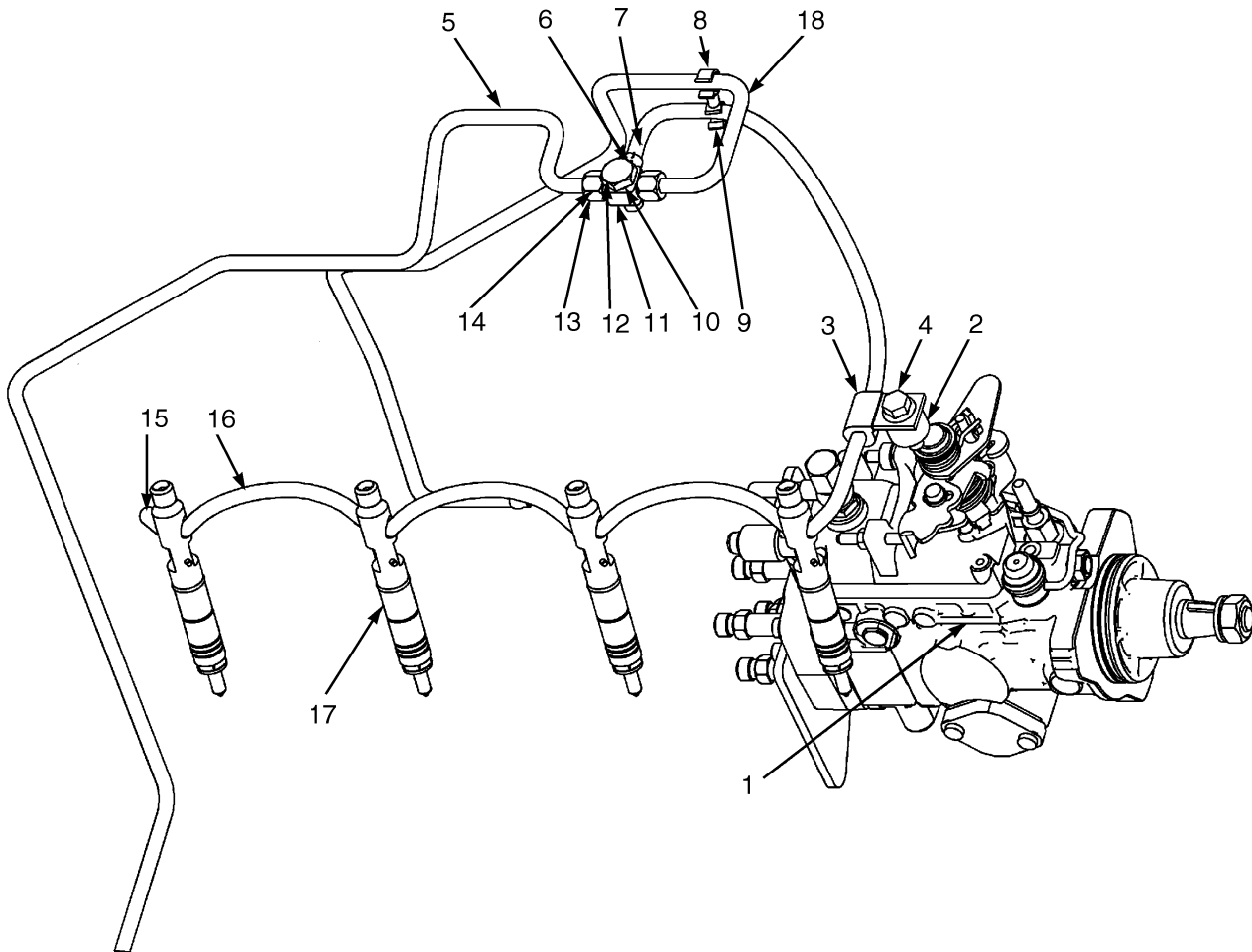
**FUEL INJECTION PUMP
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523800	Engine Assy-Diesel	1
1	a 1563922	Injection Pump	1
2	1555262	Atomizer	4
3	1555413	Nozzle	1
4	1451669	Washer (Copper)	1
5	1555414	Clamp	4
6	1555415	Screw	4
7	1555101	Gear	1
8	1537238	O-Ring	1
9	1555102	Washer	3
10	1306358	Screw	3
11	1555103	Cap	1
12	1555104	Bracket	1
13	1306371	Screw	1
14	386459	Screw	1
15	1306359	Nut	1
16	1555105	Tube Assy (# 1)	1
17	1555106	Tube Assy (# 2)	1
18	1555107	Tube Assy (# 3)	1
19	1555108	Tube Assy (# 4)	1
20	1388386	Clip	1
21	1555110	Clip	1
22	1555109	Clip	2
23	1555416	Bracket	1
24	1307881	Screw	1
25	1555417	Clip	1

FOOTNOTES:

- a** Must identify the serial number of the engine from which the injection pump was removed

FUEL INJECTION PUMP (FIGURE 2-34) WITH BLEED BACK SYSTEM



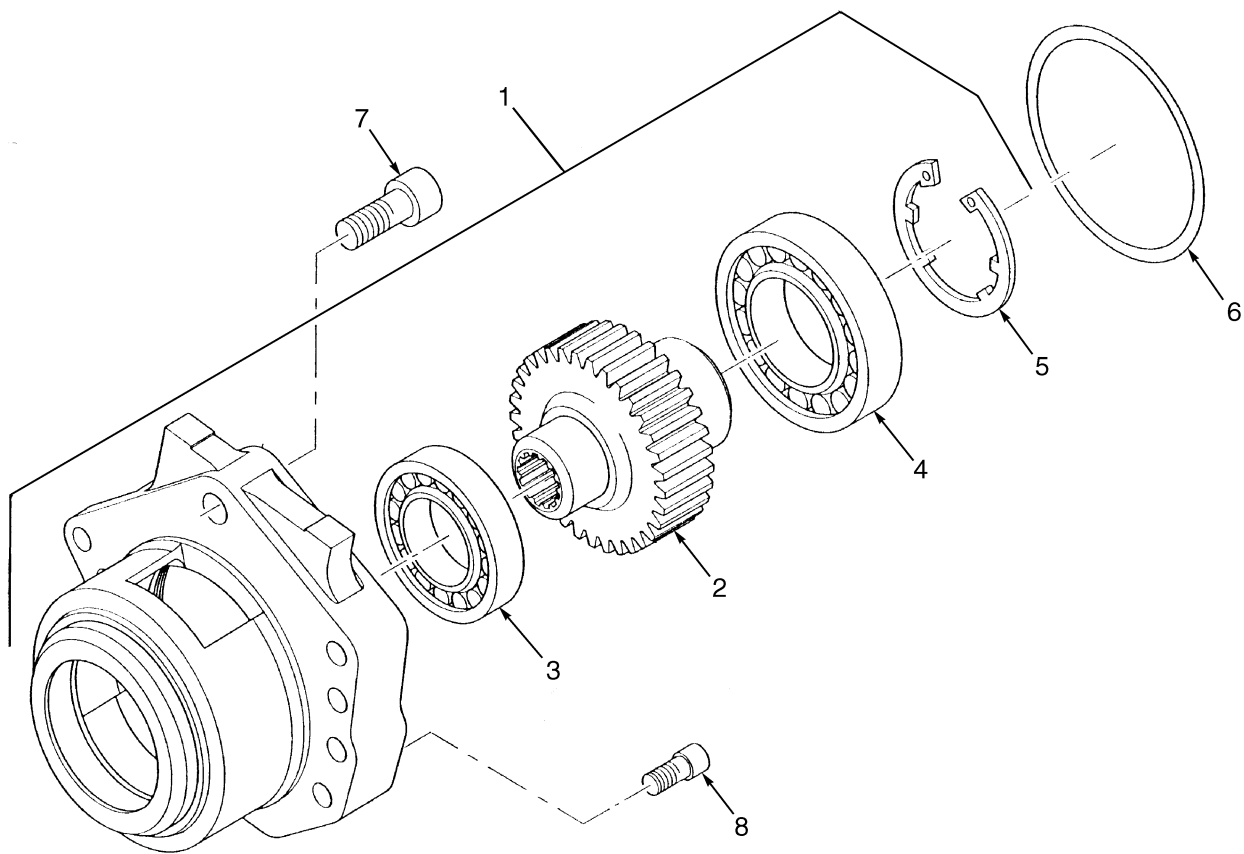
BP090156

**FUEL INJECTION PUMP
WITH BLEED BACK SYSTEM**

ITEM	PART NO.	DESCRIPTION	QTY
	d 1572669	Engine Assy-Diesel	1
	e 1580443	Engine Assy-Diesel	1
1	b 1589780	Injection Pump (Recalibrated)	1
1	b 1579446	Injection Pump	1
1	1583984	Solenoid (Engine Shut-Off)	1
1	1688448	Solenoid (Cold Start)	1
2	381879	Spacer	1
3	198675	Clamp	1
4	1527881	Capscrew	1
5	1569460	Tube Assy (Fuel Return)	1
6	366473	Clamp	1
7	1579444	Hose	1
8	1573549	Clamp	1
9	1561871	Clamp (Swivel)	1
10	1556819	Washer	2
11	1569457	Fitting (Banjo)	1
12	1456522	Bolt	1
13	16177	Fitting	2
14	14773	Fitting	2
15	1579447	Cap (Blanking)	1
16	1579443	Hose	3
17	1579442	Injector	4
17	c 1451669	Washer (Copper)	4
17	c 1555413	Nozzle	1
17	c 1688550	Seal	1
18	1569461	Tube Assy (Fuel Return)	1
	ab 1589783	Kit-Bleedback Injectors	1
	b 1578927	Kit-Bleedback Injectors	1
	b 1579823	Kit-Bleedback Injectors	1

FOOTNOTES:

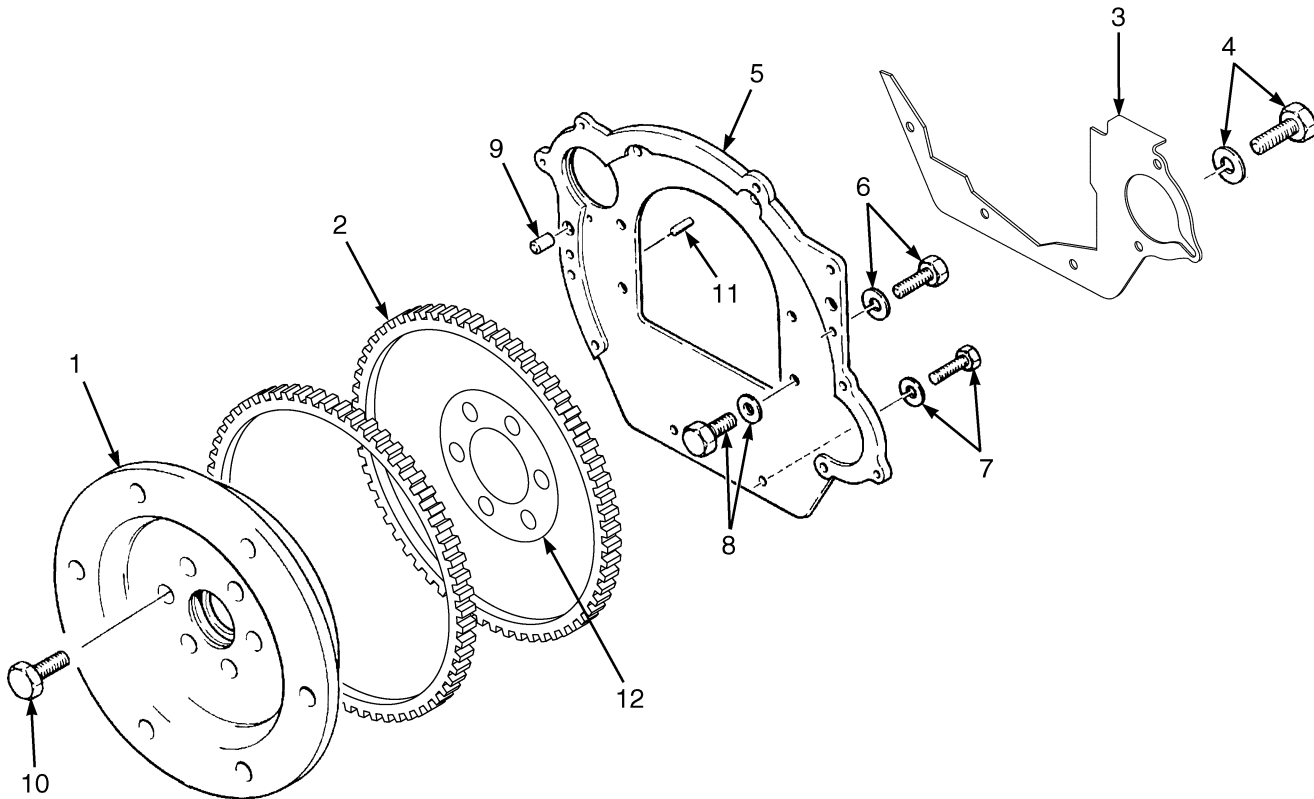
- a** Includes kits 1578927 and 1579823 **d** → 12/2004
b Must identify the serial number of the engine from **e** 12/2004 →
which the injection pump was removed
c Not Illustrated

DRIVE ADAPTOR (FIGURE 2-35)
DIESEL — TIER II

BP090115

**DRIVE ADAPTOR
DIESEL – TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1556770	Adapter	1
2	1556771	Gear	1
3	1311600	Bearing	1
4	360667	Bearing	1
5	1311602	Snap Ring	1
6	1311603	O-Ring	1
7	1311604	Screw	1
8	1311605	Screw	5

FLYWHEEL (FIGURE 2-36)
GASOLINE, LPG AND DIESEL

HP090256

**FLYWHEEL
GASOLINE, LPG AND DIESEL****KEY:****A: Gasoline and LPG (Powershift)****B: Diesel (Powershift)**

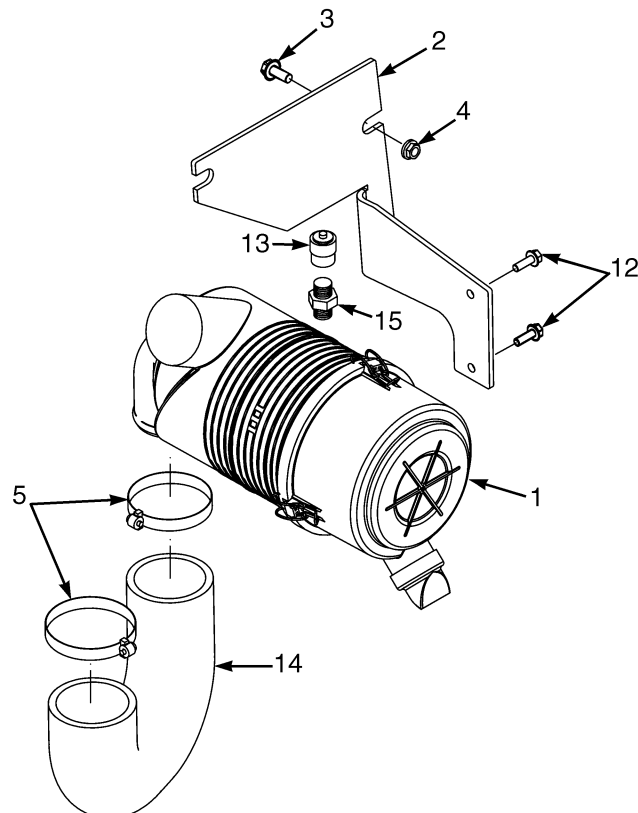
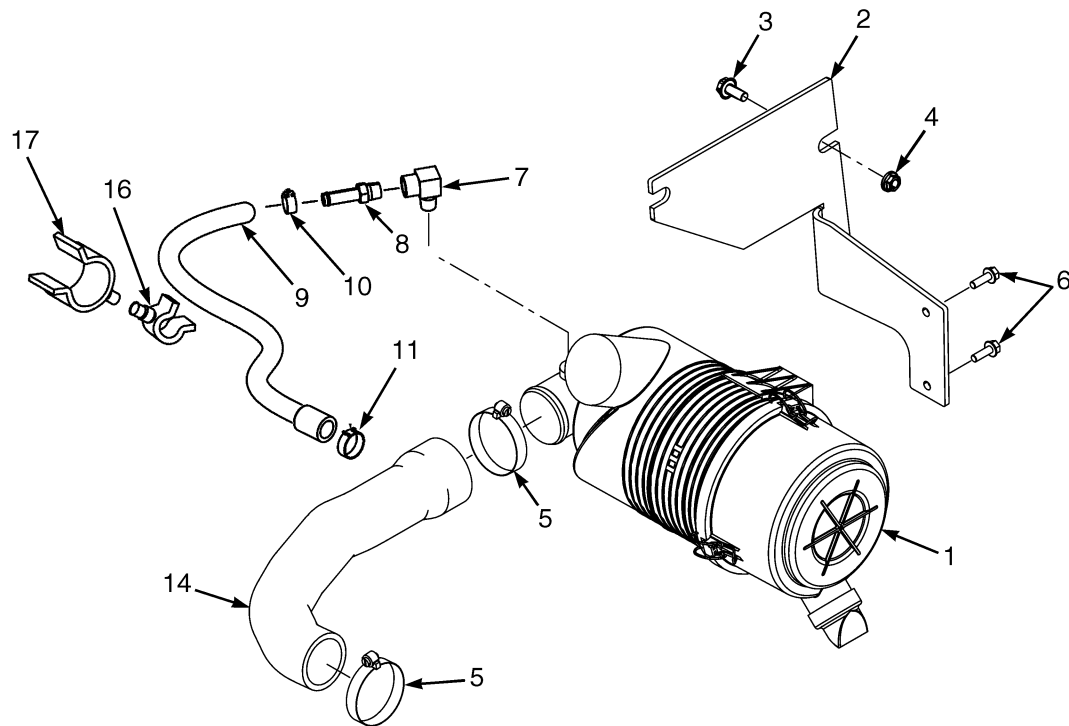
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1454600	Flywheel	..	1
1	195856	Ring Gear	..	1
2	1459400	Flywheel	1	..
2	195856	Ring Gear	1	..
3	1384335	Cover	1	..
4	287851	Capscrew	4	..
4	292681	Lockwasher	4	..
5	377326	Adapter	..	1
6	15156	Lockwasher	..	3
6	16828	Capscrew	..	3
7	176640	Bolt	..	4
7	292681	Lockwasher	..	4
8	293630	Capscrew	..	6
8	296420	Washer	..	6
9	1335499	Pin	..	2
10	284152	Bolt	6	..
10	97577	Bolt	..	6
11	186420	Dowel	..	2
12	1459391	Shim (0.118 in.)	1	..

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**SECTION 3
FUEL SYSTEM**

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AIR FILTER (FIGURE 3-1) STANDARD



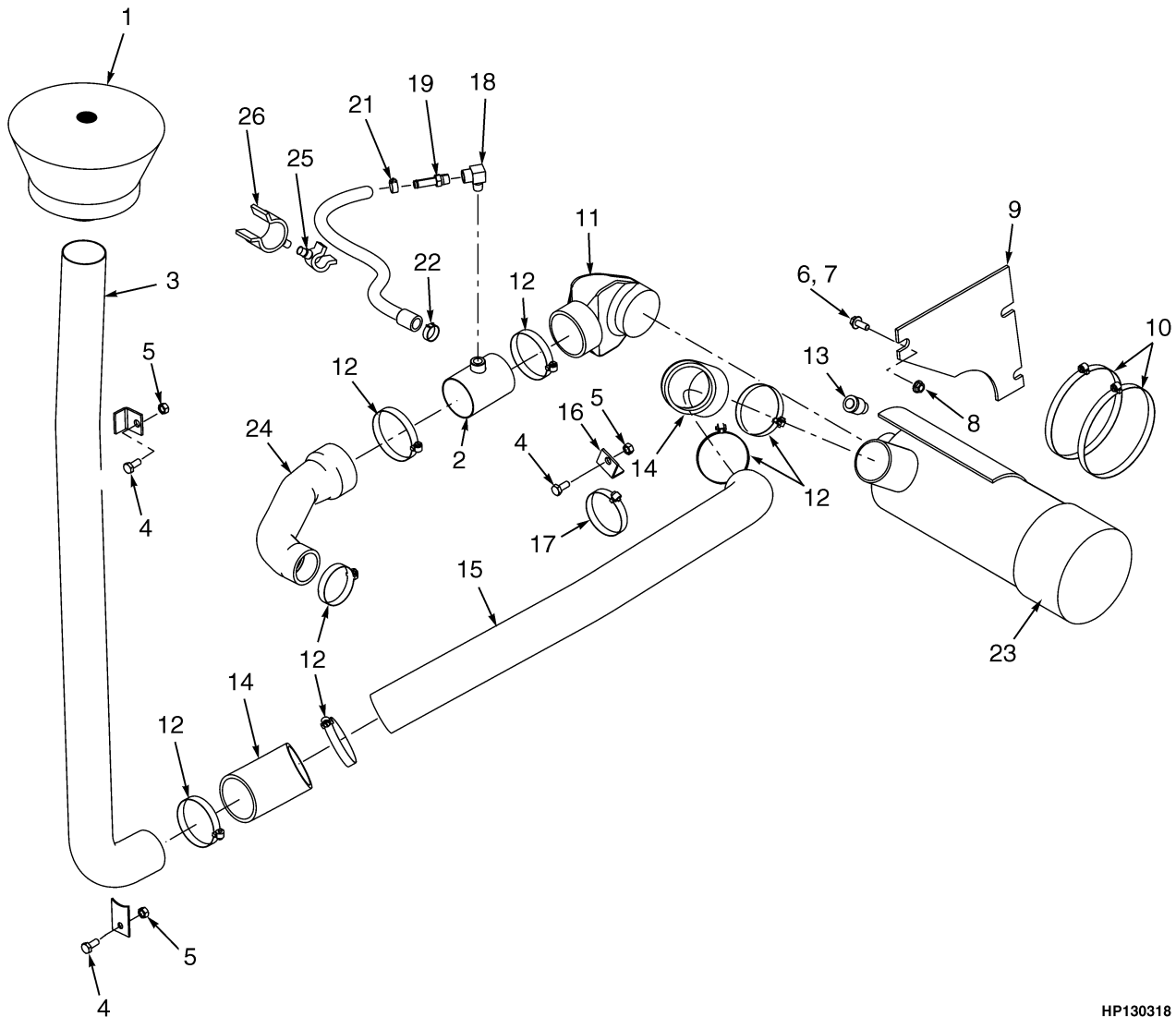
HP130319

**AIR FILTER
STANDARD****KEY:****A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	2062384	Air Filter	1	1	..
1	1462439	Filter Element	1	1	..
1	1462441	Cover	1	1	..
1	374923	Valve	1	1	..
1	1462442	Plug	1	1	..
1	2063214	Air Filter	..	..	1
1	1462439	Filter Element	..	..	1
1	1462441	Cover	..	..	1
1	374923	Valve	..	..	1
1	1462442	Plug	..	..	1
2	1508007	Plate	1	1	1
3	1527885	Capscrew	3	3	3
4	316826	Nut	3	3	3
5	115696	Hose Clamp	2	2	2
6	1510113	Capscrew	2	2	..
7	16143	Fitting	1	1	..
8	102919	Fitting	1	1	..
9	a 1542479	Hose (Breather)	1	1	..
9	b 379403	Hose (Breather)	1	1	..
10	1452463	Hose Clamp	1	1	..
11	353199	Clamp	1	1	..
12	1527879	Capscrew	..	..	2
13	165991	Indicator (Restriction)	..	..	1
14	2061655	Hose (Intake)	1	..	..
14	2061651	Hose (Intake)	..	1	..
14	2058358	Hose (Intake)	..	..	1
15	16150	Fitting	..	..	1
16	b 1502053	Clamp (Swivel)	1	1	..
17	b 1502066	Clamp	1	1	..
	1566354	Grommet (Not Illustrated)	3	3	3

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

AIR FILTER (FIGURE 3-2) HEAVY DUTY — GASOLINE AND LPG



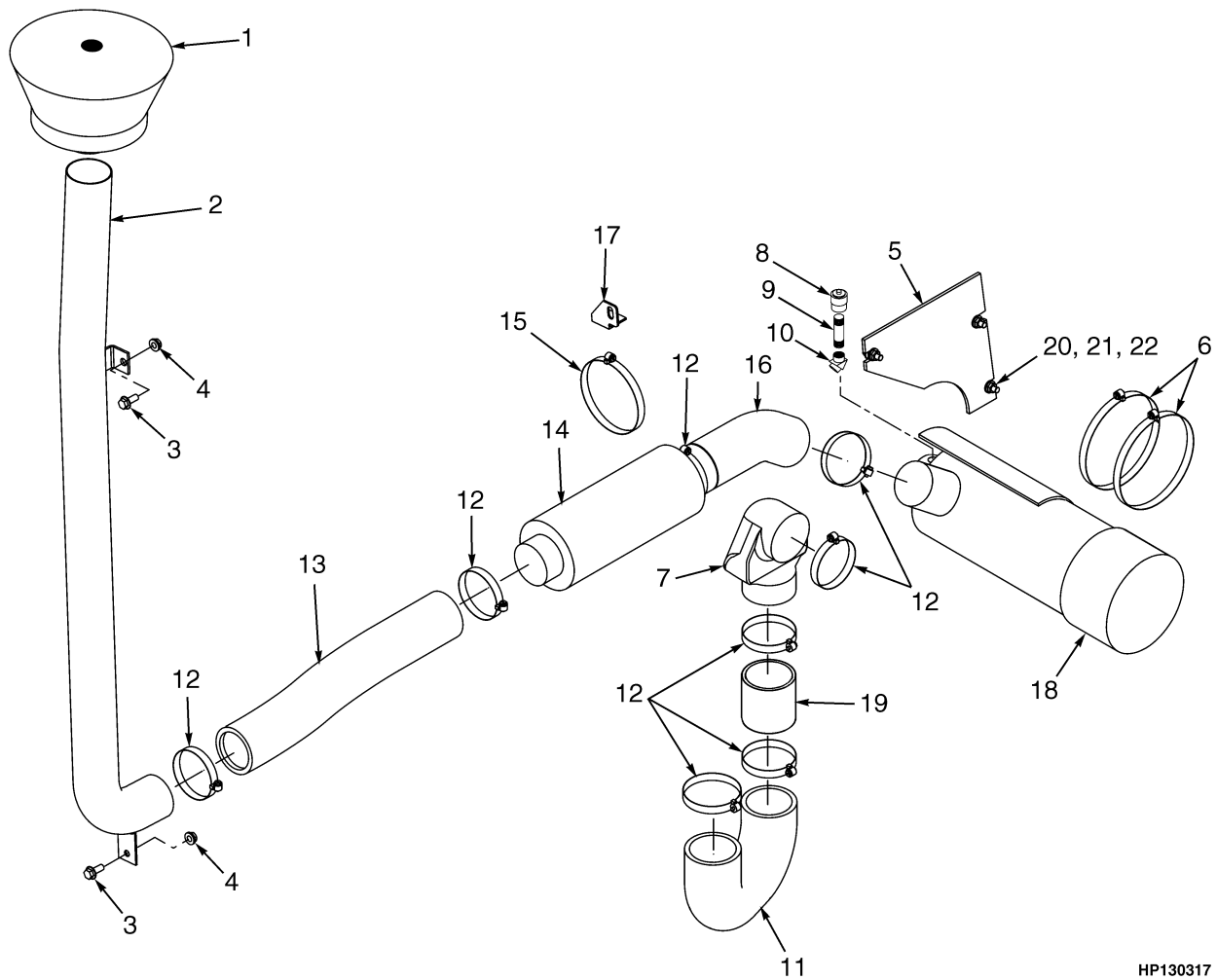
HP130318

AIR FILTER
HEAVY DUTY – GASOLINE AND LPG**KEY:****A: Gasoline****B: LPG**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1301167	Pre-Cleaner	1	1
1	328753	Cover	1	1
1	1313904	Sleeve	1	1
1	328754	Body	1	1
1	115696	Hose Clamp	1	1
2	1550718	Pipe	1	1
3	1456523	Tube Assy	1	1
4	1510117	Capscrew	3	3
5	1460477	Nut	3	3
6	1527885	Capscrew	3	3
7	1566354	Grommet	3	3
8	316826	Nut	3	3
9	379968	Bracket (Filter)	1	1
10	227221	Clamp	2	2
11	317367	Boot	1	1
12	115696	Hose Clamp	8	8
13	295440	Air Restriction Indicator	1	1
14	159787	Hose (45° Elbow)	2	2
15	379957	Tube (Intake)	1	1
16	379966	Bracket	1	1
17	1394008	Hose Clamp	1	1
18	16143	Fitting	1	1
19	102919	Fitting	1	1
20	a 1542479	Hose (Breather)	1	1
20	b 379403	Hose (Breather)	1	1
21	1452463	Hose Clamp	1	1
22	353199	Clamp	1	1
23	321109	Air Filter	1	1
23	336567	Filter Element	1	1
23	125847	Gasket	1	1
23	321916	Cup	1	1
23	290734	Clamp	1	1
23	290735	Baffle	1	1
24	2061835	Hose (Intake)	1	..
24	2061836	Hose (Intake)	..	1
25	b 1502053	Clamp (Swivel)	1	1
26	b 1502066	Clamp	1	1

FOOTNOTES:**a** → S/N G006V01964B**b** S/N G006V01965B →

AIR FILTER (FIGURE 3-3) HEAVY DUTY — DIESEL

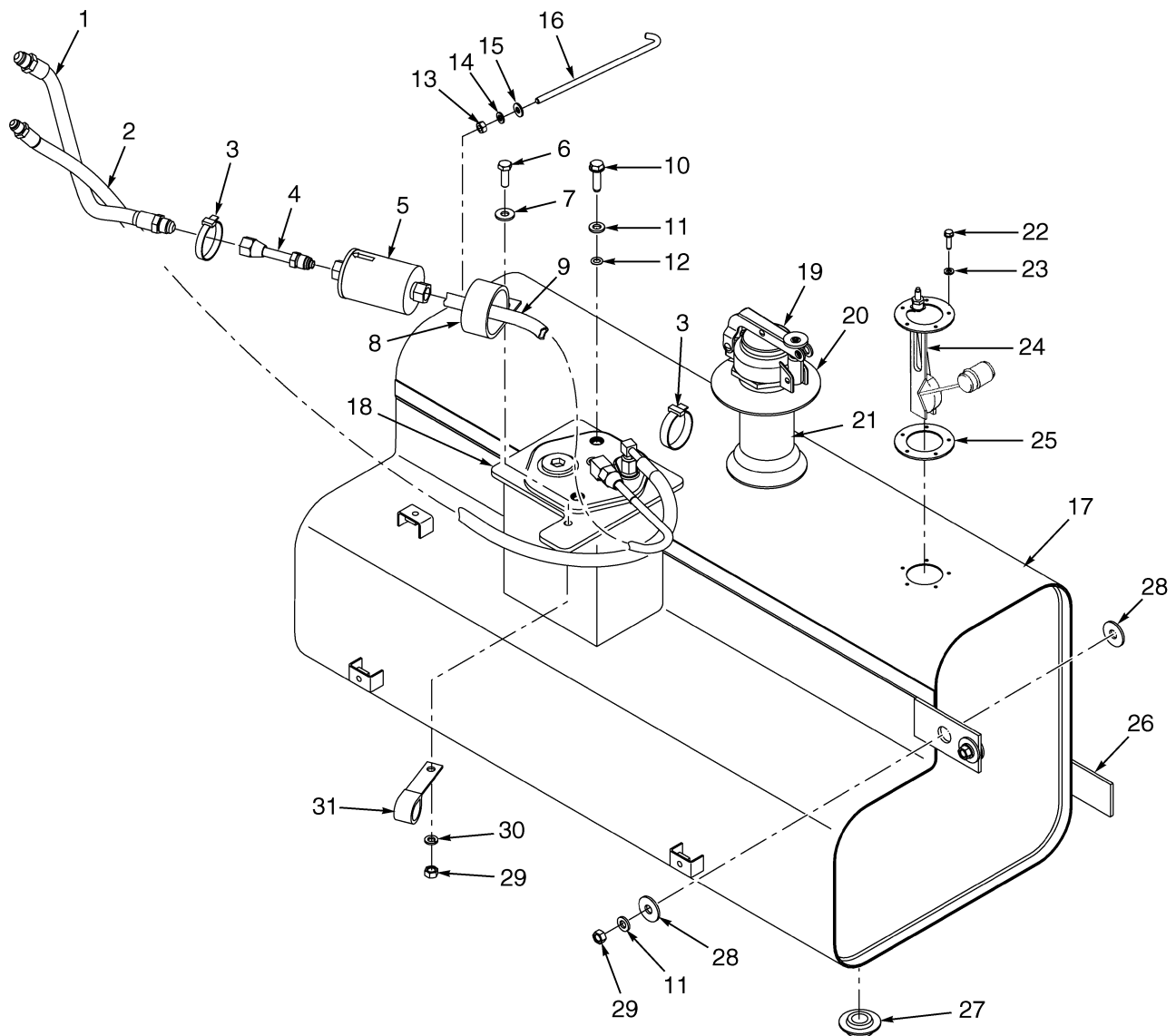


HP130317

**AIR FILTER
HEAVY DUTY – DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1301167	Pre-Cleaner	1
1	328753	Cover	1
1	1313904	Sleeve	1
1	328754	Body	1
1	115696	Hose Clamp	1
2	1456523	Tube Assy	1
3	1510117	Capscrew	2
4	1460477	Nut	2
5	379968	Bracket (Filter)	1
6	227221	Clamp	2
7	317367	Boot	1
8	165991	Indicator (Restriction)	1
9	17801	Fitting	1
10	17652	Fitting	1
11	2058196	Hose (Inlet)	1
12	115696	Hose Clamp	8
13	377348	Hose (Inlet)	1
14	321108	Silencer	1
15	227220	Clamp	1
16	377347	Hose (Intake)	1
17	377355	Bracket (Silencer)	1
18	321109	Air Filter	1
18	336567	Filter Element	1
18	125847	Gasket	1
18	321916	Cup	1
18	290734	Clamp	1
18	290735	Baffle	1
19	379972	Tube	1
20	1566354	Grommet	3
21	1527885	Capscrew	3
22	316826	Nut	3

FUEL SUPPLY SYSTEM (FIGURE 3-4) GASOLINE



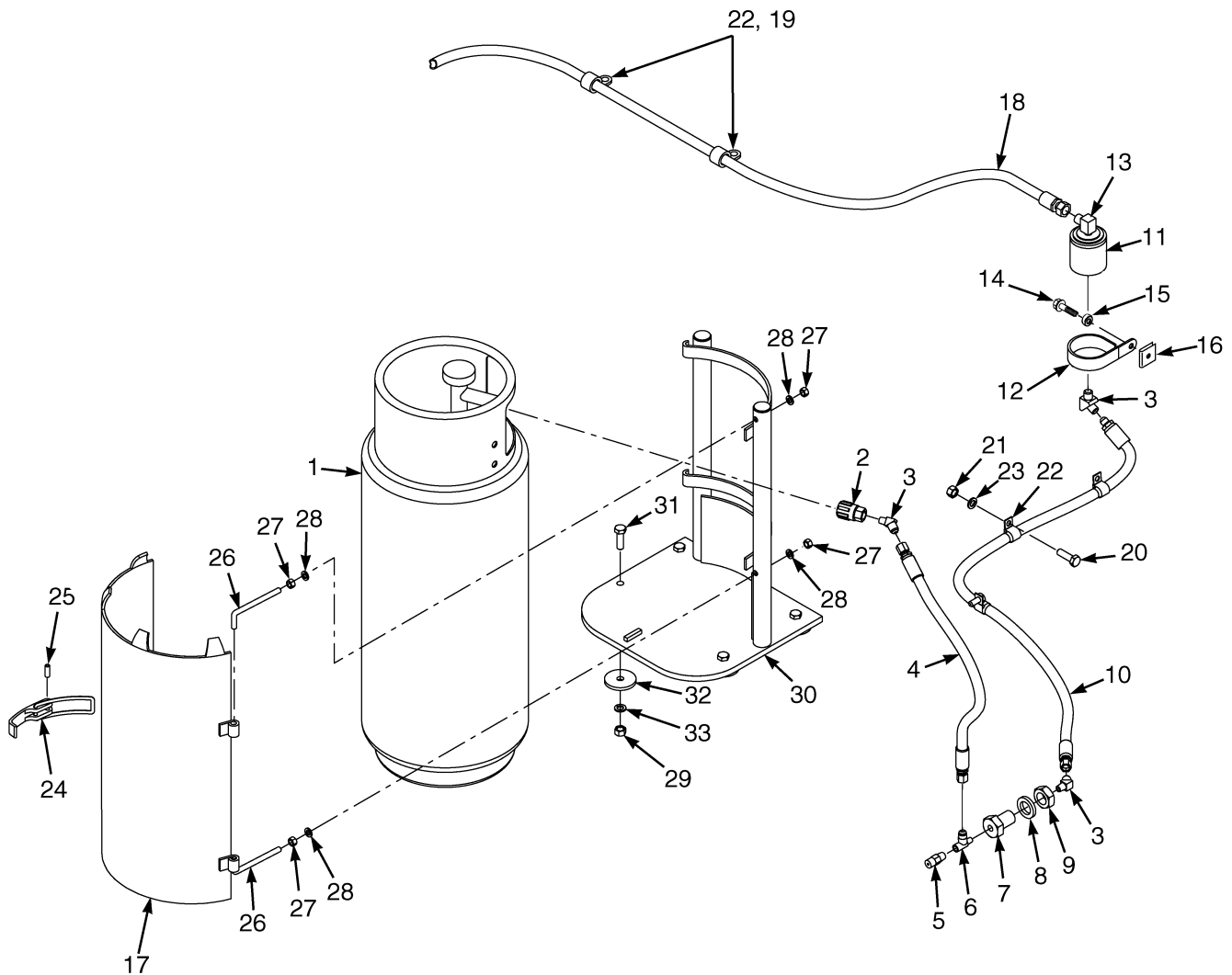
BP130026

**FUEL SUPPLY SYSTEM
GASOLINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	2067339	Hose	1
2	1375711	Hose	1
3	166857	Clamp	2
4	1541920	Tube (Supply)	1
5	1330342	Fuel Filter	1
6	136749	Screw	1
7	320158	Washer	1
8	176451	Clamp (Insulated)	1
9	1528824	Tube Assy (Supply)	1
10	1339779	Screw	2
11	320157	Washer	4
12	353000	O-Ring	2
13	15004	Nut	1
14	15154	Lockwasher	1
15	15127	Washer	1
16	293048	Link	1
17	1496475	Tank	1
18	1343449	Seal	1
18	a 1508245	Fuel Sender	1
18	b 1579397	Fuel Sender	1
19	298831	Fuel Cap (Standard)	1
19	63899	Fuel Cap (Safety)	1
19	138880	Shim (0.020 in.) (Safety)	1
20	270770	Grommet	1
21	344429	Tube	1
22	16708	Screw	5
23	350483	Sealing Ring	5
24	1322232	Sender	1
25	111561	Gasket	1
26	895411	Seal (Neoprene)	1
27	15962	Fitting	1
28	1334790	Washer	4
29	239503	Nut	3
30	292681	Lockwasher	1
31	1474893	Clamp (Insulated)	1

FOOTNOTES:**a** → S/N G006V02562C**b** S/N G006V02563C →

FUEL SUPPLY SYSTEM (FIGURE 3-5) LPG

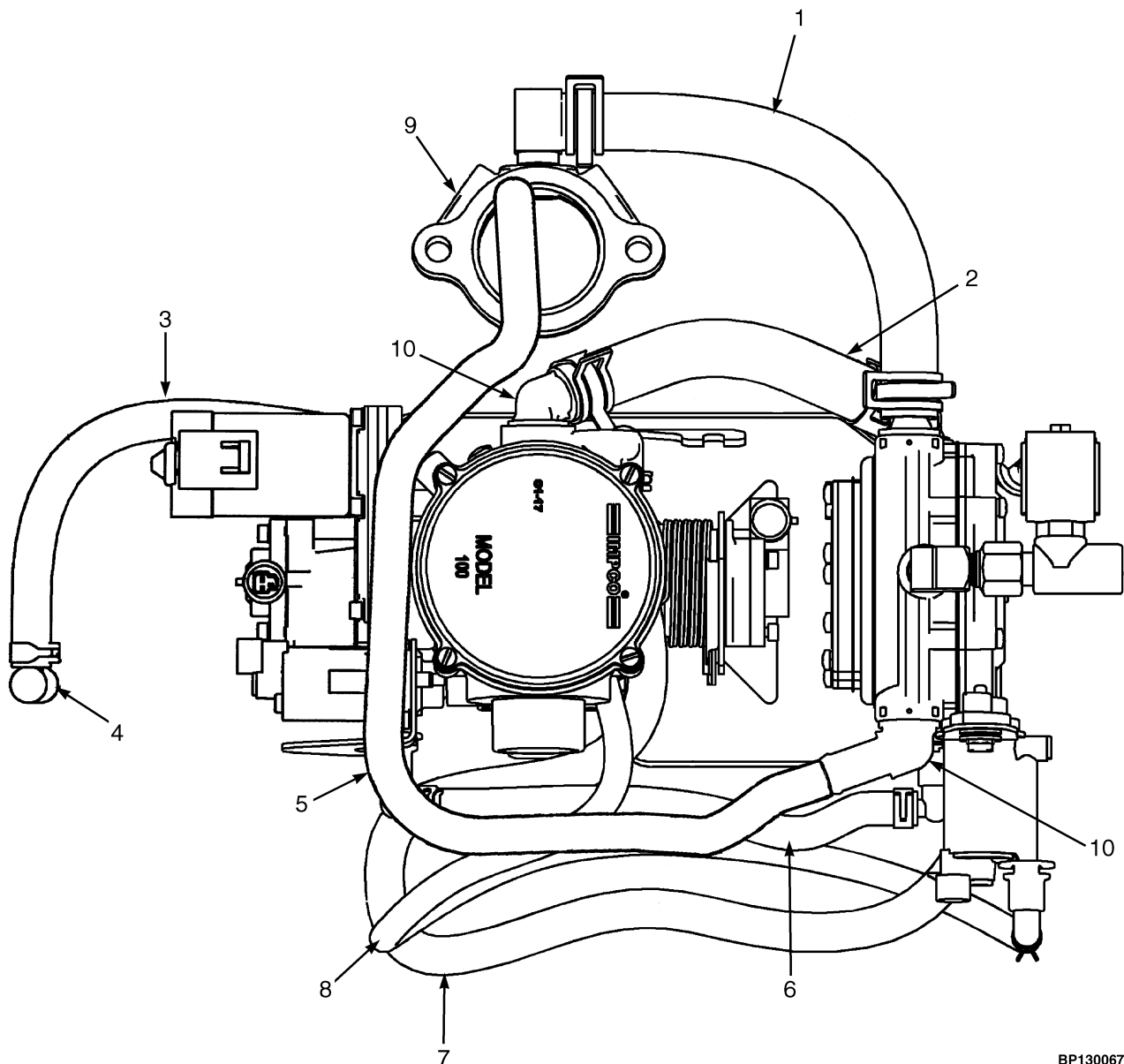


BP130082

FUEL SUPPLY SYSTEM
LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	125789	Lpg Tank (LPG)	1
1	246869	Plug (Magnetic)	1
1	124010	Coupling	1
2	97999	Fitting	1
3	16863	Fitting	4
4	146005	Hose Assy	1
5	101809	Relief Valve	1
6	14440	Fitting	1
7	121347	Fitting	1
8	15166	Lockwasher	1
9	15036	Nut	1
10	381012	Hose Assy	1
11	1544792	Fuel Filter	1
12	1545418	Clamp (Insulated)	1
13	14372	Fitting	1
14	1528482	Capscrew	1
15	381879	Spacer	1
16	1480237	Nut	1
17	1331042	Cover	1
18	1544794	Hose Assy	1
19	320159	Washer	2
20	136985	Capscrew	2
21	136692	Nut	2
22	153069	Clamp	4
23	292682	Lockwasher	2
24	97988W	Latch	2
25	19923	Roll Pin	2
26	98334	Pin	2
27	15006	Nut	4
28	15156	Lockwasher	4
29	216877	Nut	4
30	357310	Bracket	1
31	246001	Capscrew	4
32	300939	Washer	4
33	292683	Lockwasher	4

ENGINE FUEL SYSTEM (FIGURE 3-6) LPG — 4.3L EPA COMPLIANT ENGINE

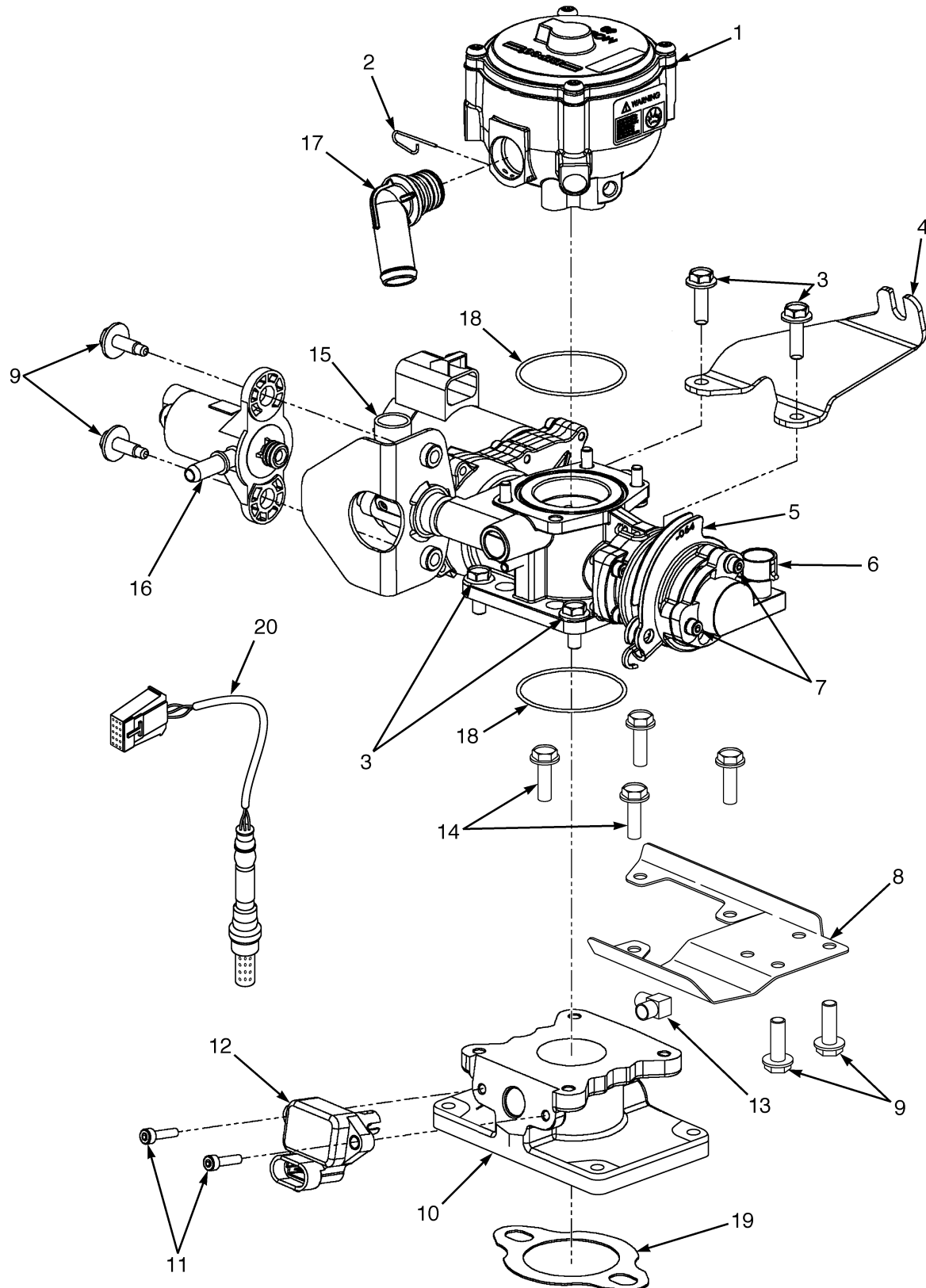


BP130067

ENGINE FUEL SYSTEM
LPG – 4.3L EPA COMPLIANT ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1582452	Hose (Supply)	1
1	1582386	Hose Clamp (Pinch Type)	2
2	1558202	Hose Assy (Dry Gas Supply)	1
2	1582386	Hose Clamp (Pinch Type)	2
3	1558195	Hose Assy (PCV)	1
3	1558198	Hose Clamp	AR
4	1558196	Pcv Valve (PCV)	1
5	1582453	Hose Assy (Return) (Regulator to Water Pump)	1
5	1582385	Hose Clamp (Worm Type)	1
5	1582386	Hose Clamp (Pinch Type)	1
6	1558206	Hose Assy (Trim Valve)	1
6	1648209	Fitting (Quick Connect)	2
6	1558198	Hose Clamp	2
7	1558543	Balance Valve	1
7	1570604	Check Valve	1
7	1558198	Hose Clamp	2
7	1570607	Hose (Short)	1
8	1558205	Hose Assy (PTV)	1
8	1648207	Hose	1
8	1648209	Fitting (Quick Connect)	1
9	1637598	Housing (Coolant)	1
10	1558176	Fitting	2
10	1603857	O-Ring	4

THROTTLE BODY AND LPG MIXER (FIGURE 3-7) 4.3L EPA COMPLIANT ENGINE

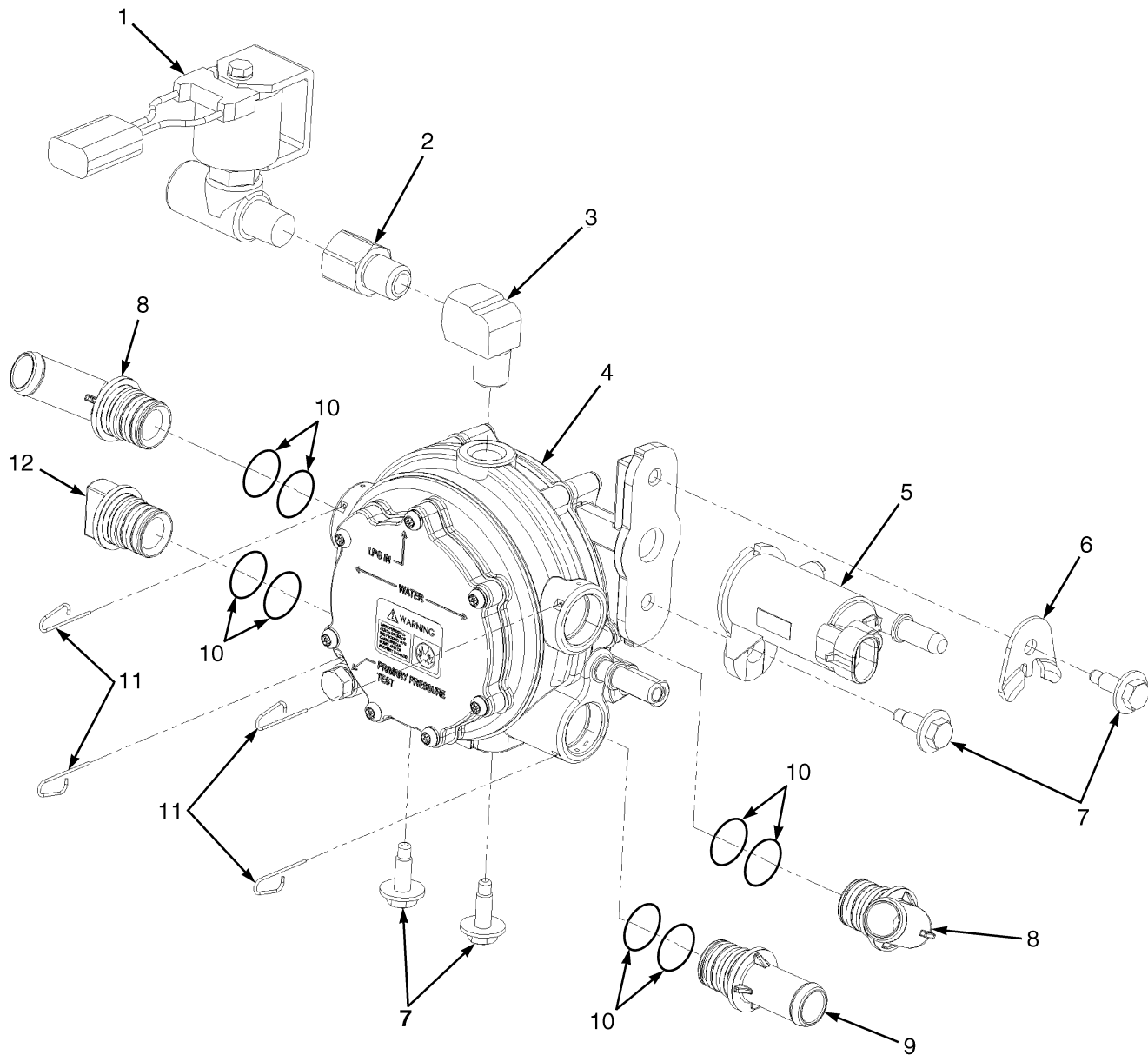


BP130060

**THROTTLE BODY AND LPG MIXER
4.3L EPA COMPLIANT ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1558160	Mixer	1
2	1558161	Pin	1
3	1558173	Bolt	4
4	1558163	Bracket	1
5	1580075	Throttle Body	1
6	1558165	Sensor (Foot Pedal Position)	1
7	1558170	Screw	2
8	1558167	Bracket	1
9	1558168	Bolt	4
10	1558169	Adapter	1
11	1558170	Screw	2
12	1558171	Sensor (Temperature manifold absolute pressure)	1
13	1361164	Fitting	1
14	1558172	Bolt	4
15	1572857	Sensor (Throttle Position)	1
16	1558175	Fuel Trim Valve	1
16	1558206	Hose Assy (Trim Valve)	1
17	1558176	Fitting	1
18	1558177	O-Ring	2
19	1558178	Gasket	1
20	1561870	Sensor (Oxygen)	1

LPG REGULATOR (FIGURE 3-8) 4.3L EPA COMPLIANT ENGINE

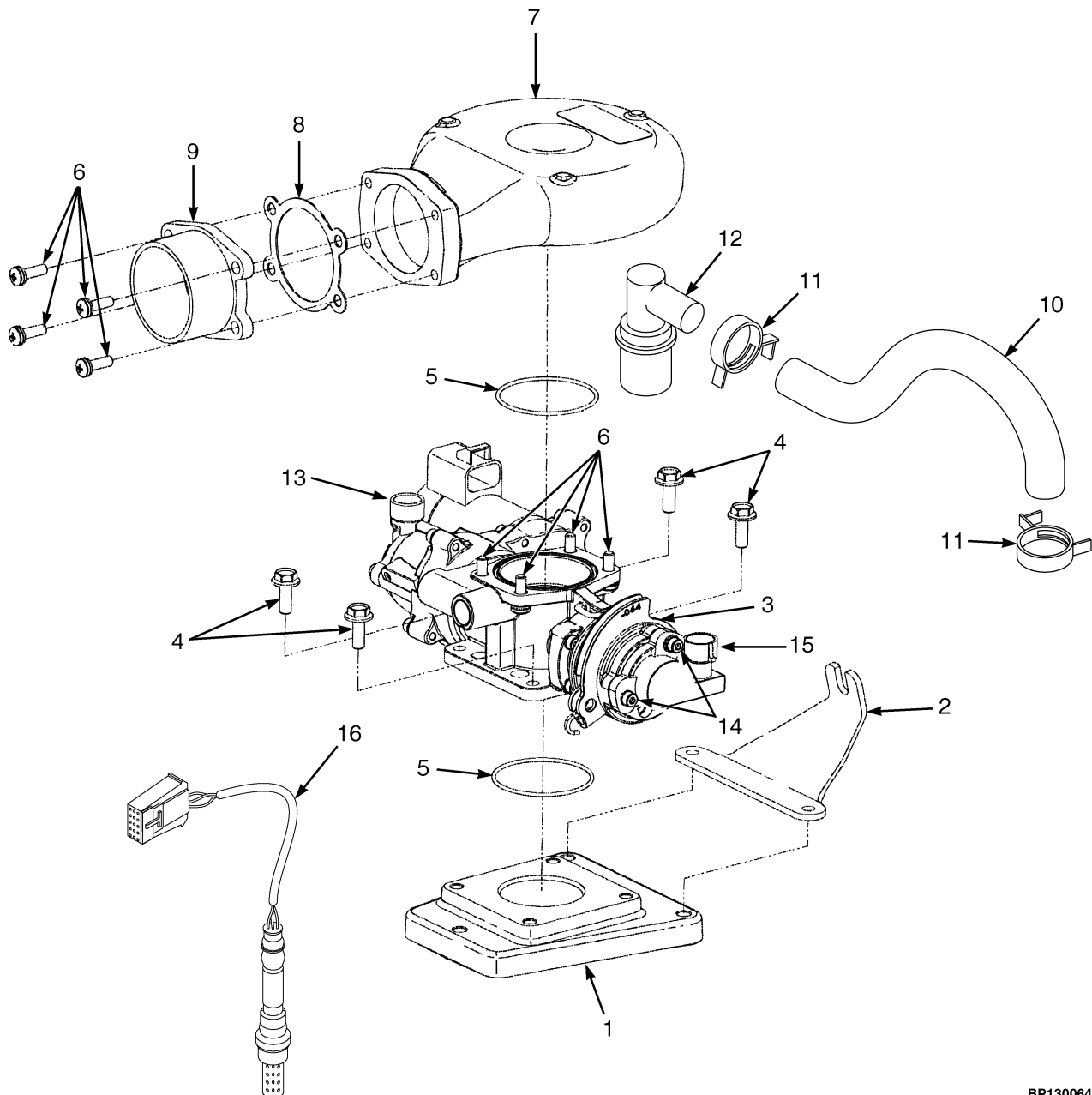


BP130165

**LPG REGULATOR
4.3L EPA COMPLIANT ENGINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1558187	Lpg Lock-Off	1
1	1697294	Shutoff Valve (Alternate Part)	1
2	1558188	Fitting	1
3	1558189	Fitting	1
4	1558190	Regulator	1
5	1558191	Valve	1
6	1558192	Clamp	1
7	1558168	Bolt	4
8	1558176	Fitting	2
9	1558193	Fitting	1
10	1603857	O-Ring	8
11	1558161	Pin	4
12	1558194	Cap	1

THROTTLE BODY ASSEMBLY (FIGURE 3-9) GASOLINE — 4.3L EPA COMPLIANT ENGINE



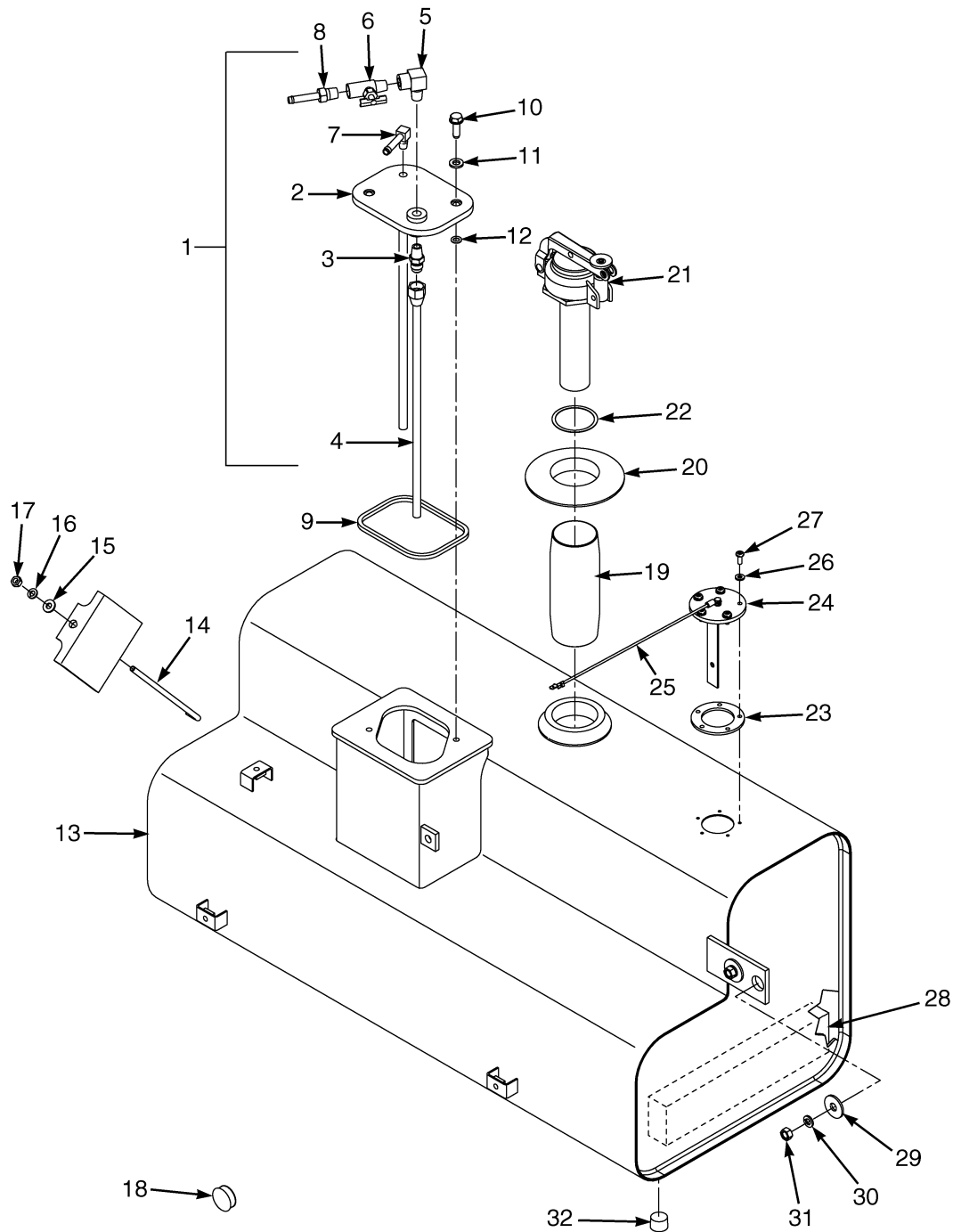
BP130064

THROTTLE BODY ASSEMBLY
GASOLINE – 4.3L EPA COMPLIANT ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	1558209	Adapter	1
2	1558210	Bracket	1
3	1558211	Throttle Body	1
4	1558432	Bolt	4
5	1558177	O-Ring	2
6	1558435	Screw	8
7	1595899	Hood	1
8	204787	Gasket	1
9	1558434	Adapter	1
10	1558195	Hose Assy (PCV)	1
11	1558198	Hose Clamp	2
12	1558196	Pcv Valve (PCV)	1
13	1572857	Sensor (Throttle Position)	1
14	1558170	Screw	2
15	1558165	Sensor (Foot Pedal Position)	1
16	1561870	Sensor (Oxygen)	1
	a 1558436	Gasket (Not Illustrated)	1

FOOTNOTES:**a** Adapter to Manifold

FUEL SUPPLY SYSTEM (FIGURE 3-10) DIESEL TIER II — TANK AND COVER ASSEMBLY



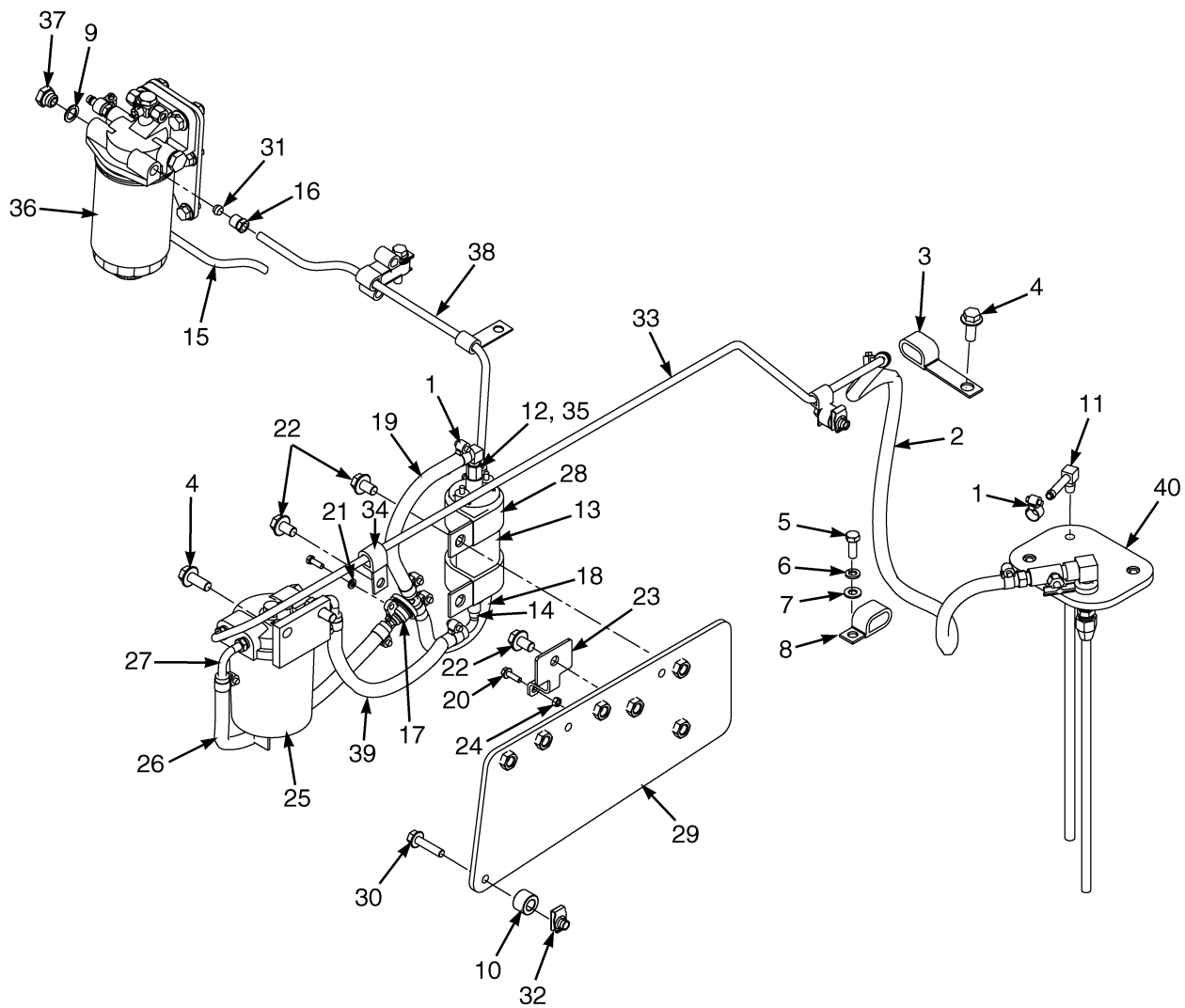
BP130125

FUEL SUPPLY SYSTEM DIESEL TIER II – TANK AND COVER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	1544814	Cover (Assembly)	1
2	1555946	Cover	1
3	16134	Fitting	1
4	1330254	Tube Assy	1
5	17314	Fitting	1
6	16190	Drain Valve (Shut Off)	1
7	222480	Fitting	1
8	1502038	Fitting	1
9	353106	Seal	1
10	329067	Screw	2
11	320157	Washer	2
12	353000	O-Ring	2
13	1327973	Fuel Tank	1
14	293048	Link	1
15	15127	Washer	1
16	15154	Lockwasher	1
17	15004	Nut	1
18	375479	Plug	1
19	344429	Tube	1
20	270770	Grommet	1
21	298832	Fuel Cap	1
21	b 63899	Fuel Cap	1
22	b 138880	Shim (0.020 in.)	AR
23	111561	Gasket	1
24	1322232	Sender	1
25	1318511	Wire	1
26	350483	Sealing Ring	5
27	16708	Screw	5
	a 895411	Seal	AR
29	1334790	Washer	AR
30	292681	Lockwasher	2
31	239503	Nut	2
	a 15962	Fitting	1

FOOTNOTES:**a** Not Illustrated**b** U.L. Safety

FUEL SUPPLY SYSTEM (FIGURE 3-11) DIESEL TIER II — WATER SEPARATOR AND FUEL PUMP SYSTEM



BP130126

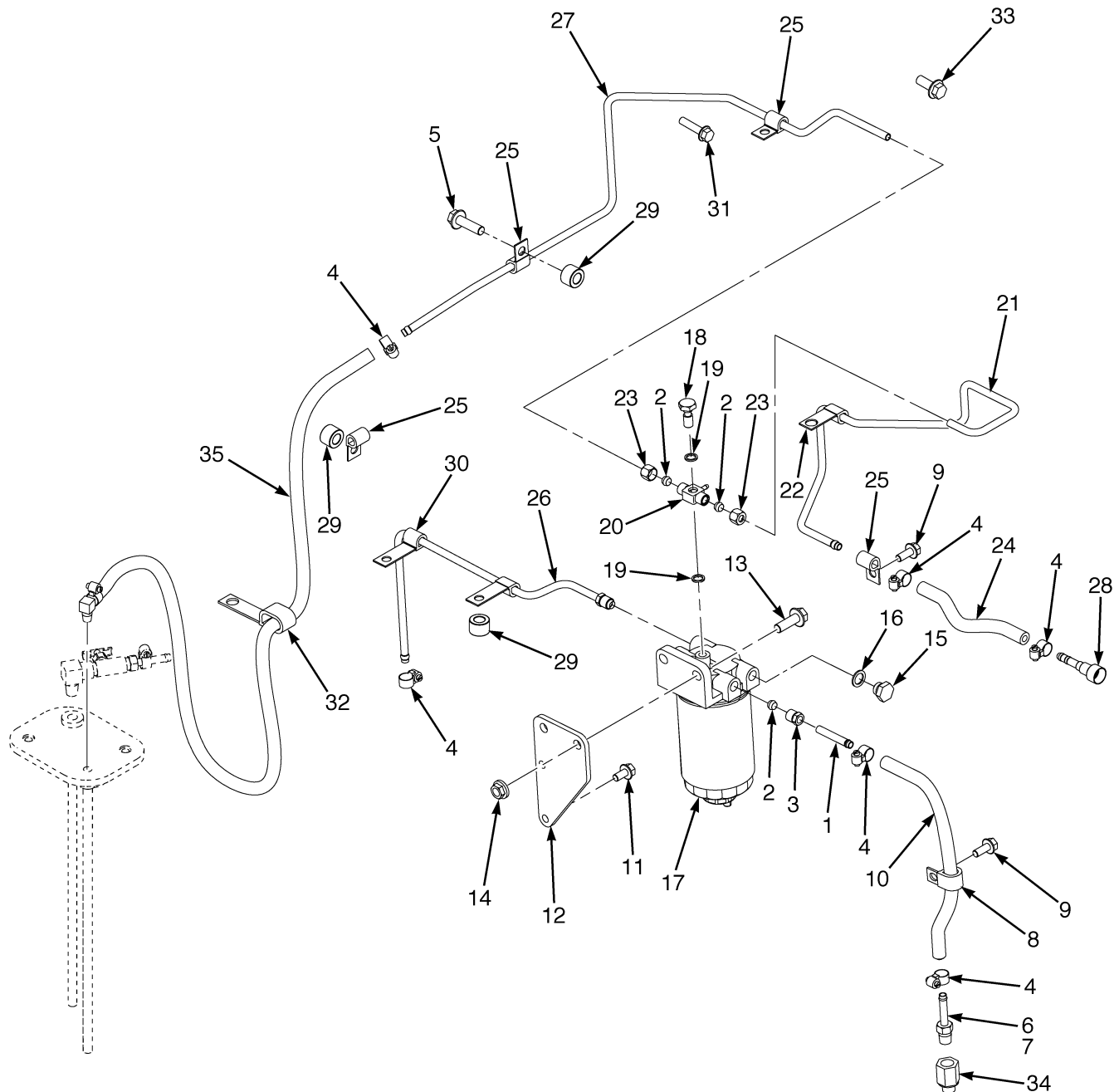
FUEL SUPPLY SYSTEM

DIESEL TIER II – WATER SEPARATOR AND FUEL PUMP SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	168718	Clamp (Worm Screw)	5
2	1375711	Hose	1
3	1301721	Clamp	1
4	1510117	Capscrew	2
5	18496	Capscrew	1
6	15155	Lockwasher	1
7	18515	Washer	1
8	119074	Clamp	1
9	1559422	Sealing Ring	2
10	381879	Spacer	3
11	222480	Fitting	1
12	1475493	Fitting (Adapter)	1
13	1551260	Fuel Pump	1
14	1543933	Fitting	1
15	274334	Hose	2
16	a 16100	Fitting	4
16	b 1567868	Nut	4
17	1558148	Regulator (Fuel Pressure)	1
18	193656	Hose	1
19	309655	Hose	1
20	2044515	Capscrew	1
21	320155	Washer	1
22	1528778	Capscrew	4
23	1553474	Bracket	1
24	292668	Nut	1
25	271047	Water Separator (☞ Figure 3-14).....	1
26	1482734	Hose	1
27	1486842	Tube Assy	2
28	176451	Clamp	2
29	1544149	Bracket Wldmt	1
30	1528482	Capscrew	3
31	16177	Fitting	4
32	1480237	Nut	3
33	1551262	Tube Assy	1
34	272133	Clamp	1
35	2303797	Adhesive	AR
36	1306345	Fuel Filter	1
37	173941	Plug	2
38	1553089	Tube Assy	1
39	193653	Hose	1
40	1544814	Cover	1

FOOTNOTES:**a** → S/N G006V01872B**b** S/N G006V01873B →

FUEL SUPPLY SYSTEM (FIGURE 3-12) DIESEL TIER II — FUEL FILTER SYSTEM



BP130128

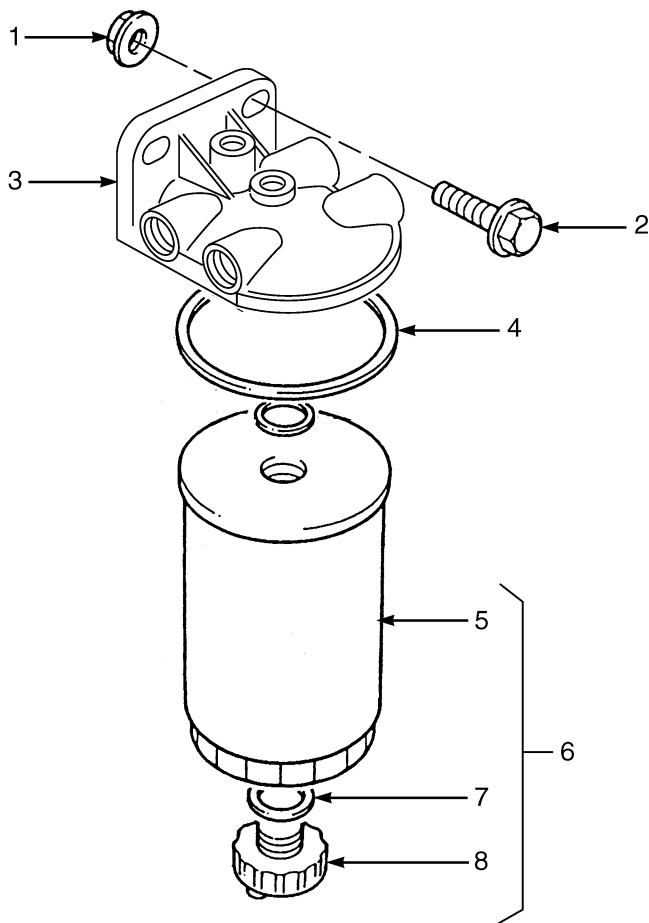
**FUEL SUPPLY SYSTEM
DIESEL TIER II – FUEL FILTER SYSTEM**

ITEM	PART NO.	DESCRIPTION	QTY
1	1486843	Tube Assy	1
2	16177	Fitting	2
3	a 16100	Fitting	3
3	b 1567868	Nut	3
4	168718	Clamp (Worm Screw)	6
5	1527885	Capscrew	1
6	1502038	Fitting	1
7	2303797	Adhesive	AR
8	209266	Clamp	1
9	1527880	Capscrew	2
10	193653	Hose	1
11	1527879	Capscrew	2
12	1559417	Bracket	1
13	1527884	Capscrew	2
14	1460477	Nut	2
15	173941	Plug	3
16	1559422	Sealing Ring	3
17	1306345	Fuel Filter (☞ Figure 3-13).....	1
18	1456522	Bolt	1
19	1556819	Washer	2
20	1569457	Fitting (Banjo)	1
21	1569461	Tube Assy (Fuel Return)	1
22	164365	Clamp	1
23	14773	Fitting	2
24	274334	Hose	1
25	164488	Clamp	3
26	1553089	Tube Assy	1
27	1569460	Tube Assy (Fuel Return)	1
28	1544024	Fitting (5/16 Quick Disconnect)	1
29	381879	Spacer	3
30	188631	Clamp	2
31	1528482	Capscrew	1
32	1301721	Clamp	1
33	1510117	Capscrew	1
34	1547766	Adapter (Male)	1
35	2067339	Hose	1

FOOTNOTES:**a** → S/N G006V01872B**b** S/N G006V01873B →

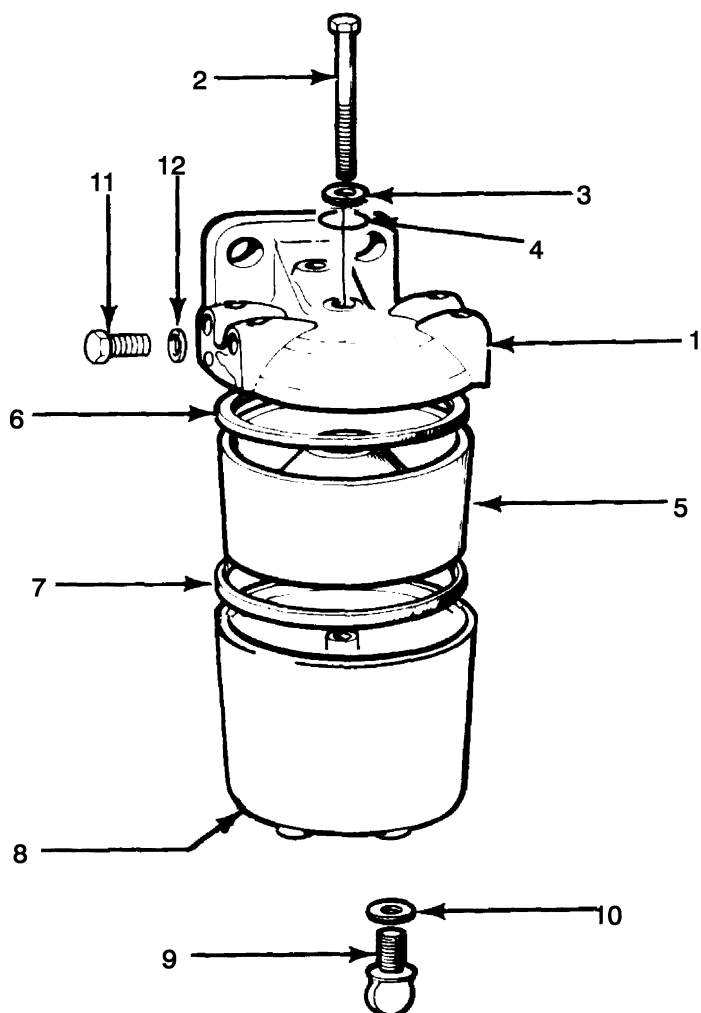
FUEL FILTER (FIGURE 3-13)

TIER II — DIESEL



BP130081

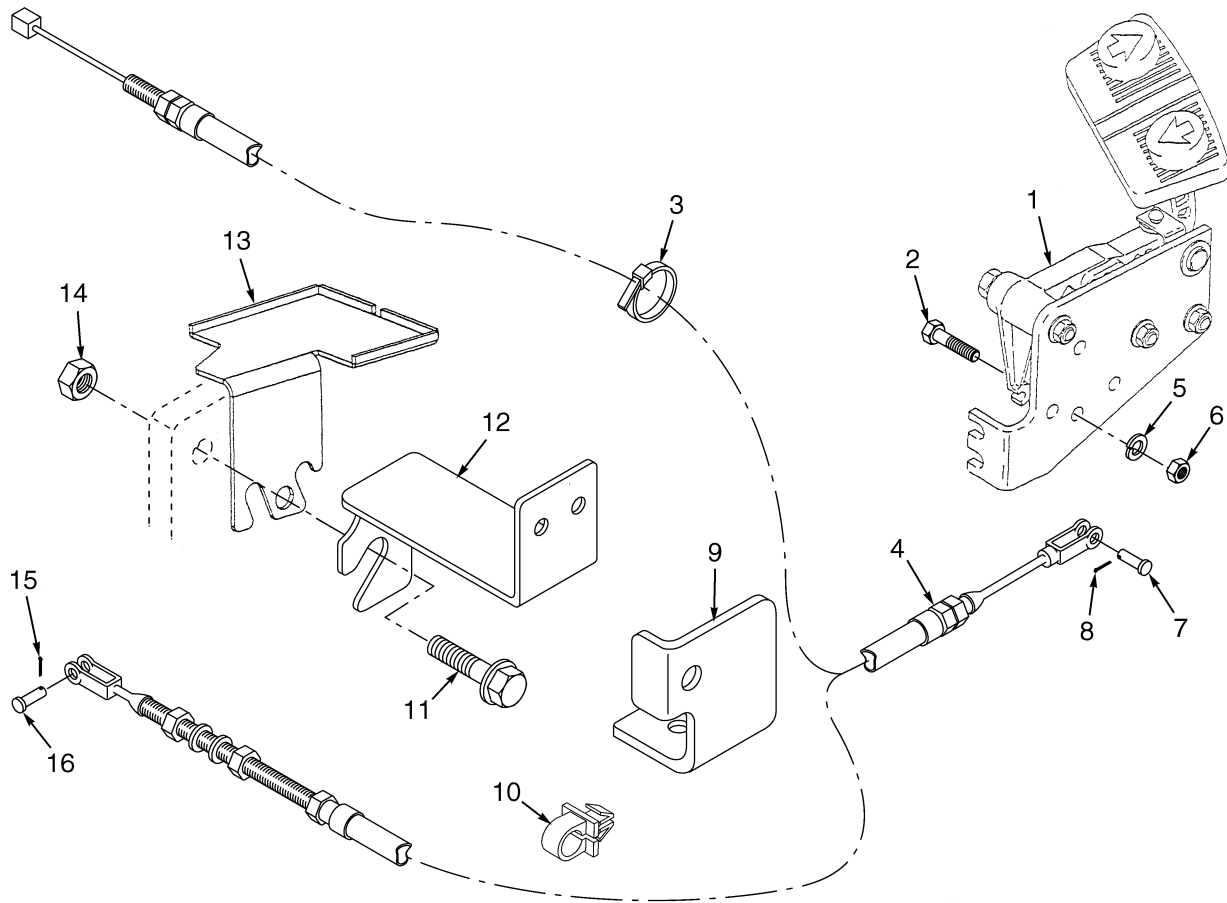
ITEM	PART NO.	DESCRIPTION	QTY
1	1460477	Nut	2
2	1527884	Capscrew	2
3	1474825	Filter Head	1
4		Seal	1
5		Element	1
5	1306345	Fuel Filter	1
6	1306331	Fuel Filter	1
7	1308006	Washer	1
8	1308005	Plug	1

WATER SEPARATOR (FIGURE 3-14)
TIER II — DIESEL

HP130074

ITEM	PART NO.	DESCRIPTION	QTY
	271047	Water Separator	1
1	272273	Filter Head	1
2	256219	Bolt	1
3	256220	Washer	1
4	168914	Seal	1
5	177407	Fuel Filter	1
6	292781	Seal (Bottom)	1
7	292782	Seal (Top)	1
8	271443	Base	1
9	271448	Drain Plug	1
10	271449	Washer	1
11	170688	Plug	2
12	272274	Washer	1

THROTTLE LINKAGE (FIGURE 3-15) GAS, LPG, AND DIESEL

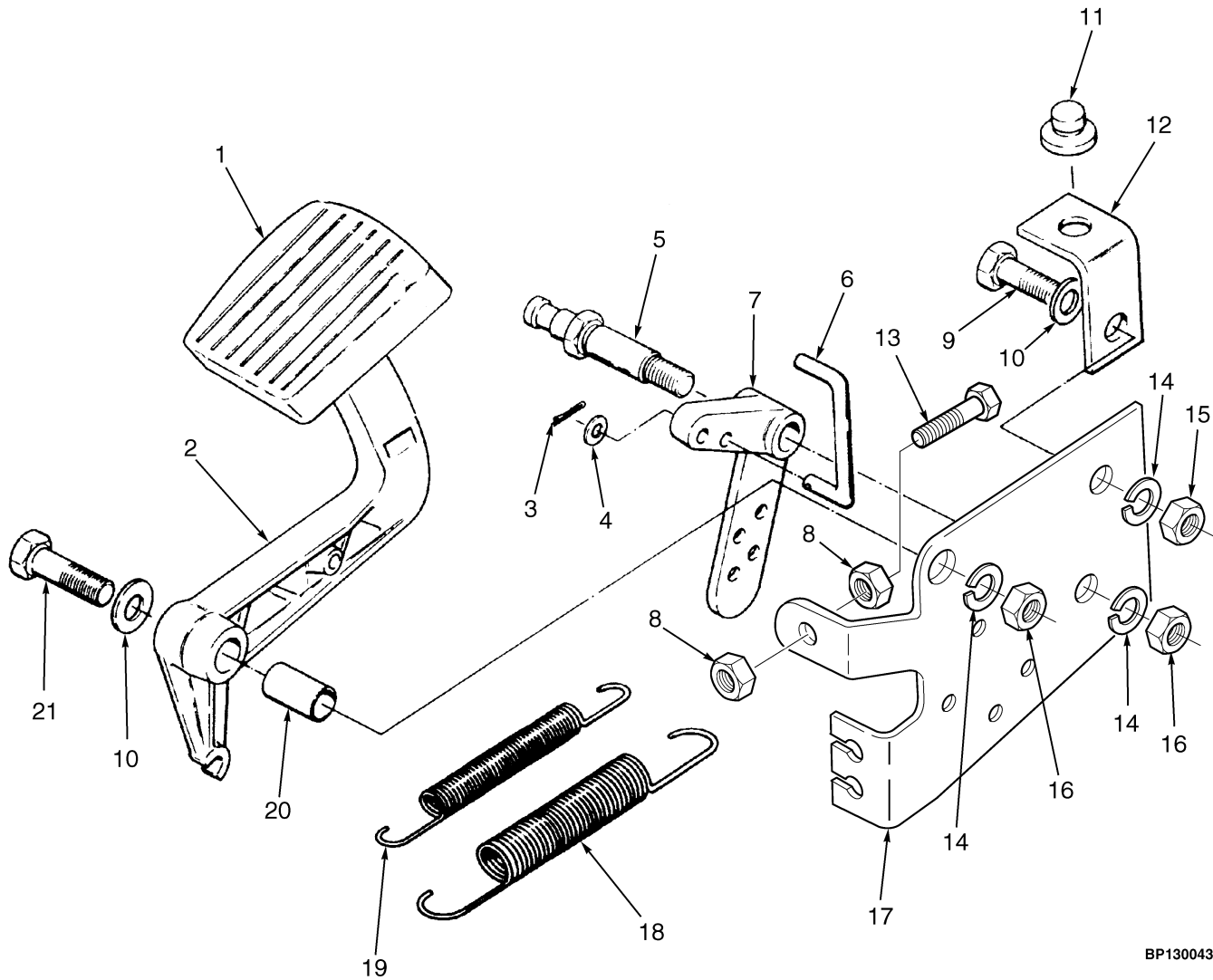


BP130041

**THROTTLE LINKAGE
GAS, LPG, AND DIESEL****KEY:****A: Gasoline****B: LPG****C: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	1515138	Accelerator Pedal (Forward and Reverse Lever) (☞Figure 3-16).....	1	1	1
1	1513957	Monotrol Pedal (Monotrol Pedal) (☞Figure 3-17).....	1	1	1
2	136985	Capscrew	2	2	2
3	137852	Strap Clamp	..	..	1
4	2065701	Throttle Cable	..	..	1
4	2062323	Throttle Cable	1	1	..
5	292682	Lockwasher	2	2	2
6	136692	Nut	2	2	2
7	162836	Pin	1	1	1
8	15212	Cotter Pin	1	1	1
9	1551859	Bracket	..	..	1
10	1524320	Clip	..	..	2
11	1527877	Capscrew	..	..	2
12	1551253	Bracket	..	..	1
13	1539747	Drip Shield	..	..	1
14	1514429	Nut	..	..	2
15	15200	Cotter Pin	..	..	1
16	167218	Pin	..	..	1

ACCELERATOR PEDAL AND BRACKET (FIGURE 3-16) WITH FORWARD AND REVERSE LEVER

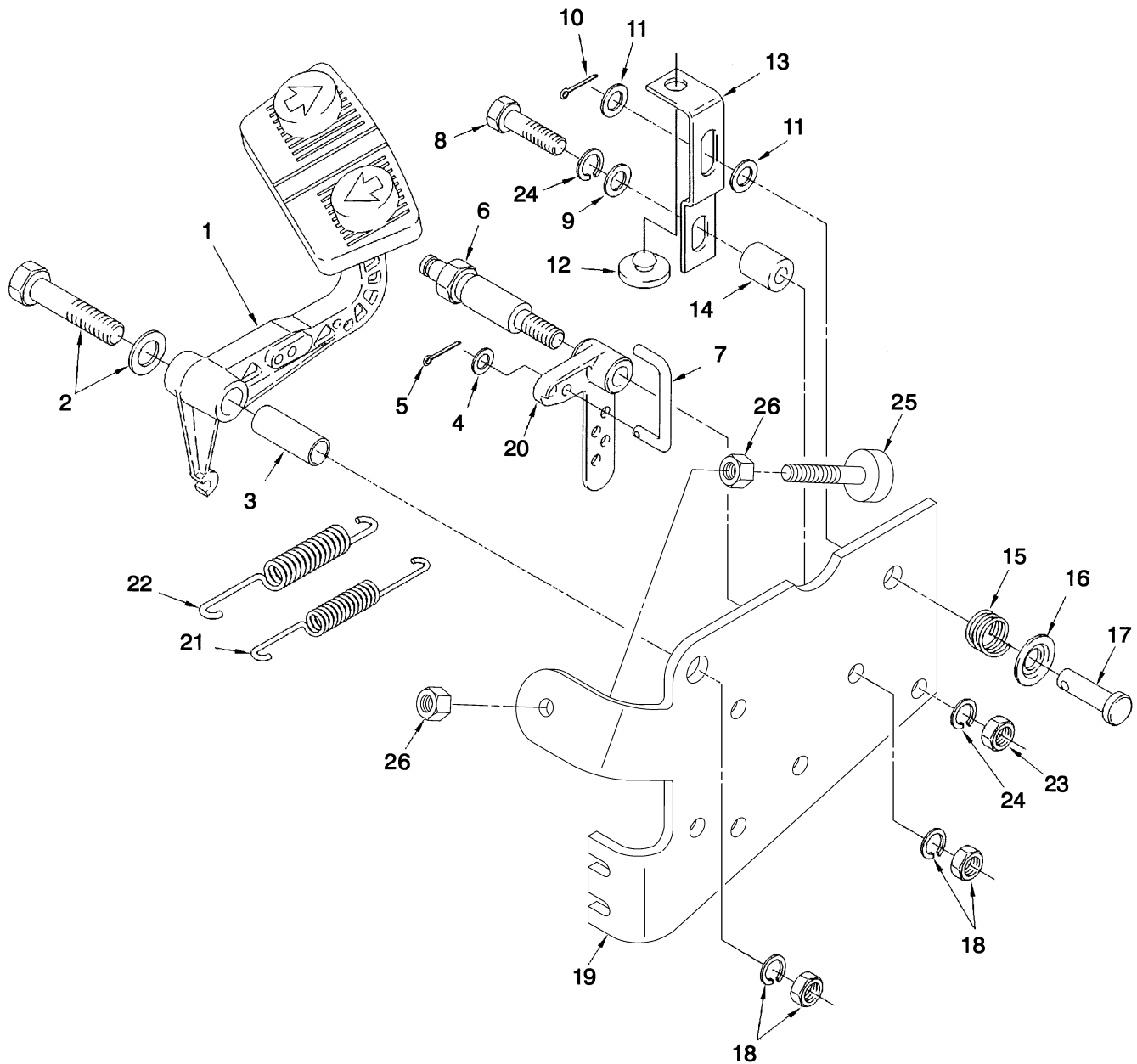


BP130043

**ACCELERATOR PEDAL AND BRACKET
WITH FORWARD AND REVERSE LEVER**

ITEM	PART NO.	DESCRIPTION	QTY
1	352885	Rubber Pad	1
2	352499	Pedal	1
3	15200	Cotter Pin	1
4	320156	Washer	1
5	352485	Shaft	1
6	353129	Rod	1
7	353164	Crank	1
8	15001	Nut	2
9	287854	Capscrew	1
10	320160	Washer	2
11	353195	Bumper	1
12	353159	Bracket	1
13	1347088	Screw	1
14	292682	Lockwasher	3
15	296128	Nut	1
16	136692	Nut	2
17	1513870	Bracket	1
18	353142	Spring	1
19	353143	Spring	1
20	325708	Tube Assy	1
21	292521	Capscrew	1

ACCELERATOR PEDAL AND BRACKET (FIGURE 3-17) MONOTROL

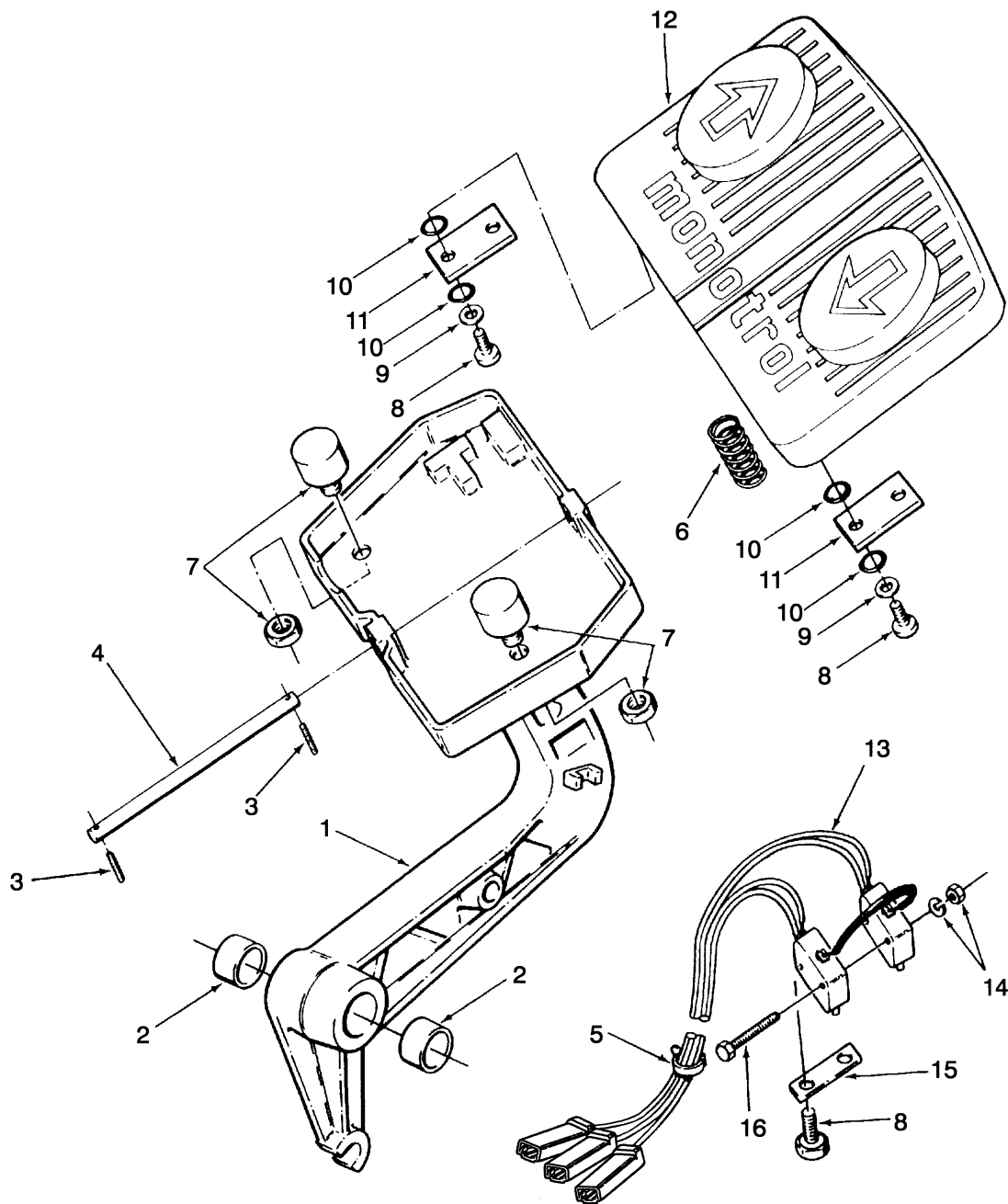


BP130044

**ACCELERATOR PEDAL AND BRACKET
MONOTROL**

ITEM	PART NO.	DESCRIPTION	QTY
1	353398	Monotrol Pedal (☞ Figure 3-18).....	1
2	292523	Capscrew	1
2	320160	Washer	1
3	353141	Tube Assy	1
4	320156	Washer	1
5	15200	Cotter Pin	1
6	352485	Shaft	1
7	353129	Rod	1
8	287851	Capscrew	1
9	320158	Washer	1
10	15212	Cotter Pin	1
11	320160	Washer	2
12	353195	Bumper	1
13	352950	Bracket	1
14	353453	Mount	1
15	353172	Spring	1
16	353230	Cap	1
17	142	Pin	1
18	136692	Nut	2
18	292682	Lockwasher	2
19	1513870	Bracket	1
20	353164	Crank	1
21	353142	Spring	1
22	353143	Spring	1
23	239503	Nut	1
24	292681	Lockwasher	2
25	1347088	Screw	1
26	15001	Nut	2

MONOTROL PEDAL (FIGURE 3-18)



HP240083

MONOTROL PEDAL

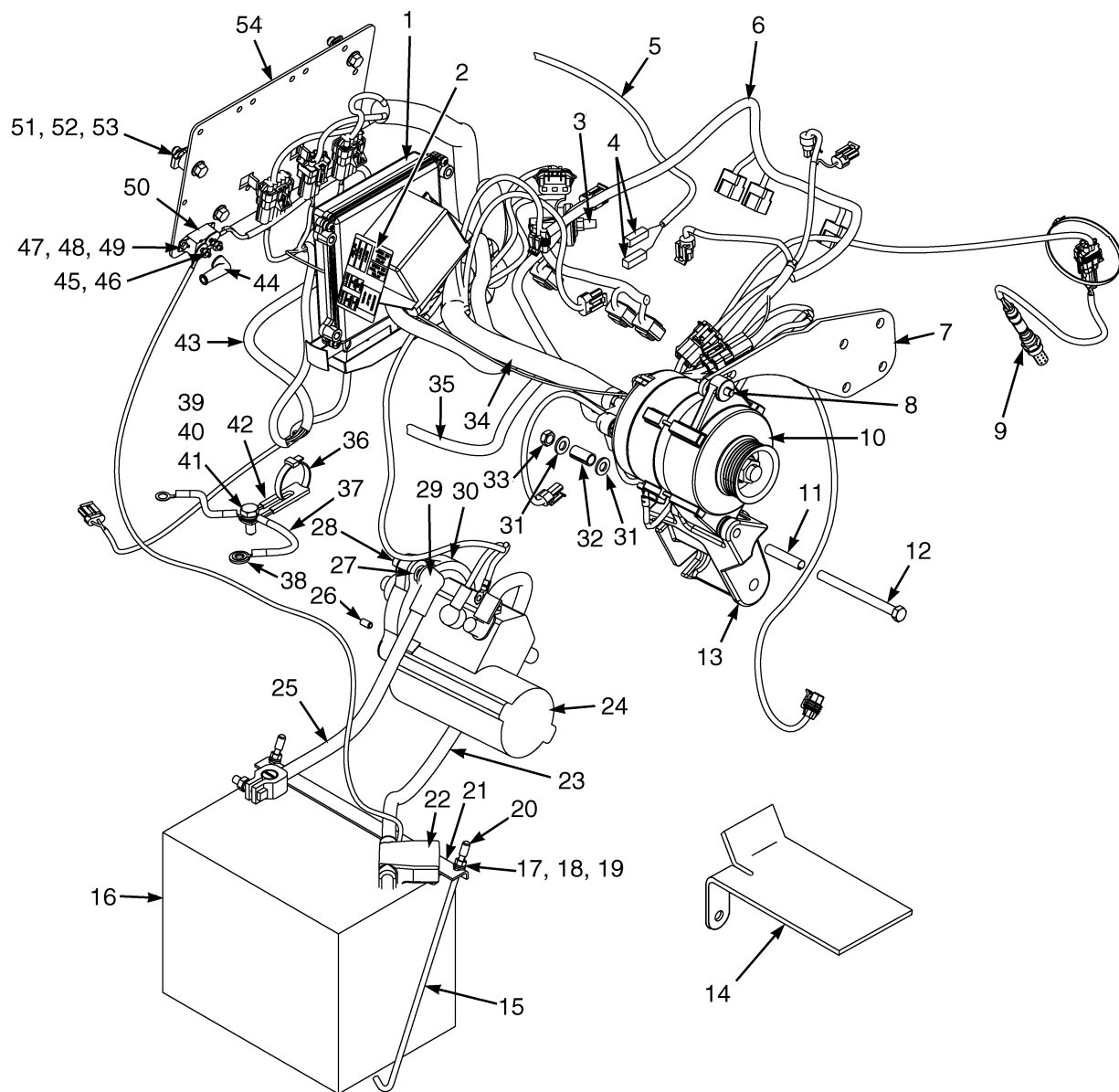
ITEM	PART NO.	DESCRIPTION	QTY
	353398	Monotrol Pedal	1
1	353397	Pedal	1
2	135685	Bushing	2
3	220932	Setscrew	2
3	360387	Loctite	AR
4	353154	Pin	1
5	114312	Strap Clamp	2
6	353168	Spring	1
7	353432	Nut	2
7	353422	Magnet	2
8	352969	Screw	6
9	353448	Washer	4
10	57568	O-Ring	8
11	359207	Plate	2
12	353175	Pad	1
13	353220	Switch	1
14	16865	Nut	2
14	53162	Lockwasher	2
15	353165	Retainer	1
16	220434	Screw	2

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SECTION 4 ELECTRICAL SYSTEM

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ELECTRICAL SYSTEM (FIGURE 4-1) GASOLINE



HP081379

**ELECTRICAL SYSTEM
GASOLINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	2063342	Engine Control Module	1
2	2068443	Label (Fuse Holder)	1
3	1545857	Pressure Switch	1
4	181045	Connector Body	2
5	1339440	Wire Harness (Monotrol Pedal)	1
5	b 2078469	Wire Harness (Forward/Reverse Lever)	1
6	2066454	Wire Harness (Injector) (☞ Figure 4-24).....	1
7	1389337	Strap (Alternator)	1
8	1527881	Capscrew	1
9	1561870	Sensor (Oxygen)	1
10	1469597	Alternator	1
11	305100	Sleeve	1
12	18548	Capscrew	1
13	1383229	Mount	1
14	1570194	Bracket	1
15	309124	Battery Hold Down (Battery Hold Down)	2
16	1383331	Start Battery Wet	1
17	136687	Nut	2
18	320156	Washer	2
19	292680	Washer	2
20	1326939	Cap	2
21	309152	Battery Hold Down	1
22	1595775	Boot	1
23	1629089	Battery Cable (Positive)	1
23	148782	Terminal	1
23	148795	Terminal	1
23	1357269	Battery Cable	1
23	148613	E-Ring	1
24	1383240	Starter (☞ Figure 4-6).....	1
25	1383347	Battery Cable (Negative)	1
26	234898	Roll Pin	1
27	15156	Lockwasher	2
28	16376	Capscrew	2
29	157065	Boot	1
30	350065	Spacer	1
31	261379	Washer	2
32	189338	Spacer	1
33	139743	Locknut	1
34	2066453	Wire Harness (Main Engine) (☞ Figure 4-22, ☞ Figure 4-23).....	1
35	1345997	Wire Harness (Neutral Start) (☞ Figure 4-14).....	1
35	a 1335842	Wire Harness (Neutral Start) (Forward/Reverse Shift Lever) (☞ Figure 4-15)....	1
36	129563	Strap Clamp	1
37	362416	Wire	2
38	320159	Washer	1
39	287854	Capscrew	2
40	292682	Lockwasher	2
41	296361	Washer	1
42	1350914	Strap	1
43	2062382	Wire Harness (Interface) (☞ Figure 4-16).....	1
44	190383	Boot	1

ELECTRICAL SYSTEM GASOLINE

ITEM	PART NO.	DESCRIPTION	QTY
45	15002	Nut	2
46	15152	Lockwasher	2
47	2062262	Capscrew	2
48	292667	Nut	2
49	292678	Lockwasher	2
50	2044948	Breaker (50 Amp)	1
50	15152	Lockwasher	2
50	15002	Nut	2
51	1528482	Capscrew	4
52	381879	Spacer	4
53	1480237	Nut	4
54	1544837	Bracket	1

FOOTNOTES:

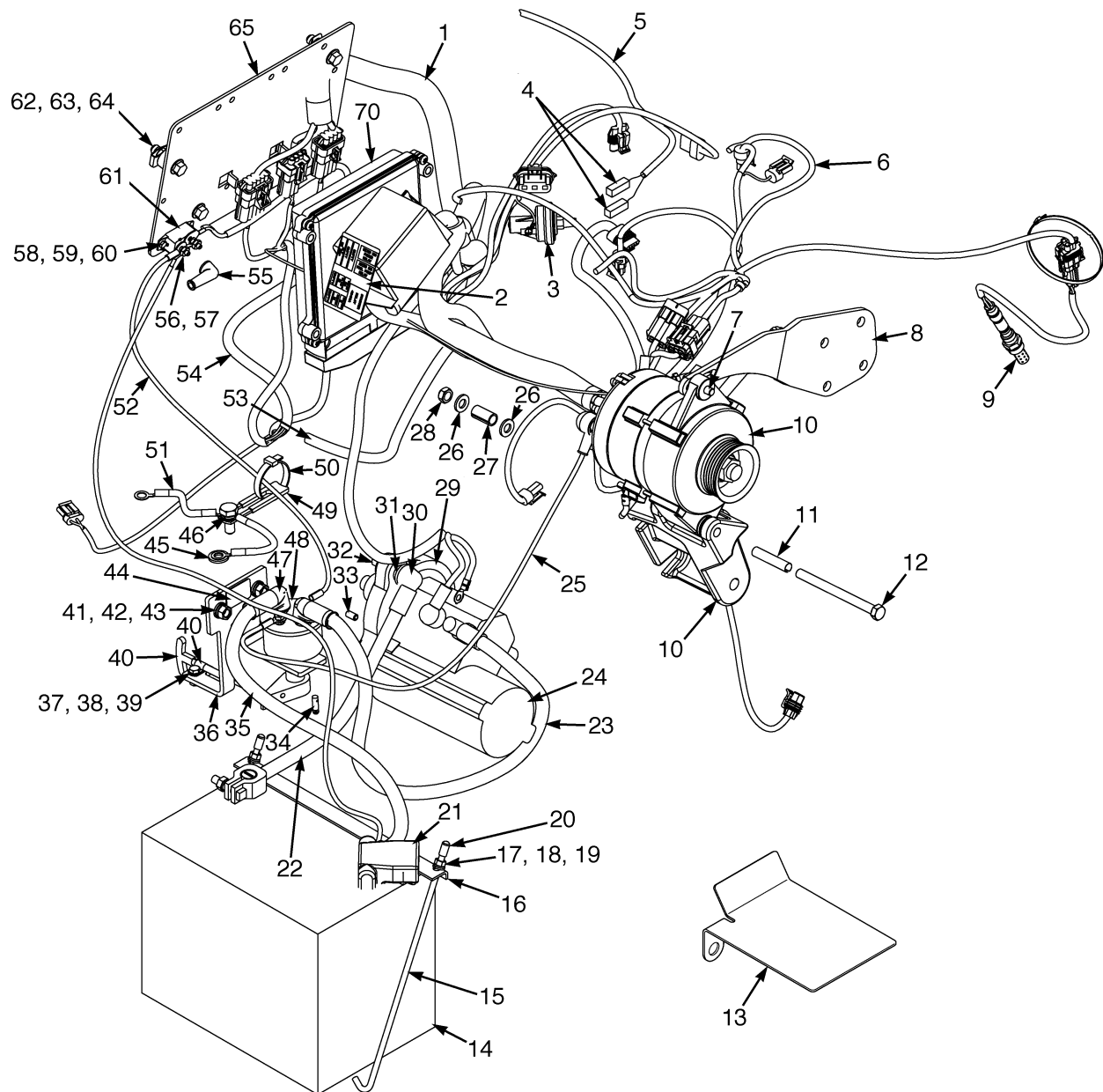
a → S/N G006V03427C

b S/N G006V03428C →

NOTES

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ELECTRICAL SYSTEM (FIGURE 4-2) LPG



HP081426

ELECTRICAL SYSTEM
LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	2068082	Wire Harness (Main Engine) (☞ Figure 4-19, ☞ Figure 4-20).....	1
2	2068443	Label (Fuse Holder)	1
3	1545857	Pressure Switch	1
4	181045	Connector Body	2
5	1339440	Wire Harness (Monotrol Pedal)	1
5	b 2078469	Wire Harness (Forward/Reverse Lever)	1
6	2067390	Wire Harness (LPG Regulator) (☞ Figure 4-21).....	1
7	1527881	Capscrew	1
8	1389337	Strap (Alternator)	1
9	1561870	Sensor (Oxygen)	1
10	1469597	Alternator	1
10	1383229	Mount (Alternator)	1
11	305100	Sleeve	1
12	18548	Capscrew	1
13	1570194	Bracket	1
14	1383331	Start Battery Wet	1
15	309124	Battery Hold Down (Battery Hold Down)	2
16	309152	Battery Hold Down	1
17	136687	Nut	1
18	292680	Washer	1
19	320156	Washer	2
20	1326939	Cap	2
21	1595775	Boot	1
22	1383347	Battery Cable	1
23	1629091	Battery Cable	1
23	148795	Terminal	2
23	117970	Battery Cable (27.50 In.)	1
24	1383240	Starter	1
25	1559750	Wire Harness (Disconnect Switch to Alternator)	1
26	261379	Washer	2
27	189338	Spacer	1
28	139743	Locknut	1
29	350065	Spacer	1
30	204223	Boot	1
31	15156	Lockwasher	2
32	16376	Capscrew	2
33	234898	Roll Pin	1
34	154565	Wire Stop	1
35	22063	Battery Cable (Disconnect Switch)	1
36	1567284	Bracket	1
37	292500	Capscrew	1
38	136687	Nut	2
39	292680	Washer	2
40	1387262	Push-Pull Cable	1
40	1329910	Clamp	1
41	239503	Nut	2
42	292681	Lockwasher	2
43	320157	Washer	2
44	1324480	Label (Battery Switch)	1
45	320159	Washer	1

ELECTRICAL SYSTEM
LPG

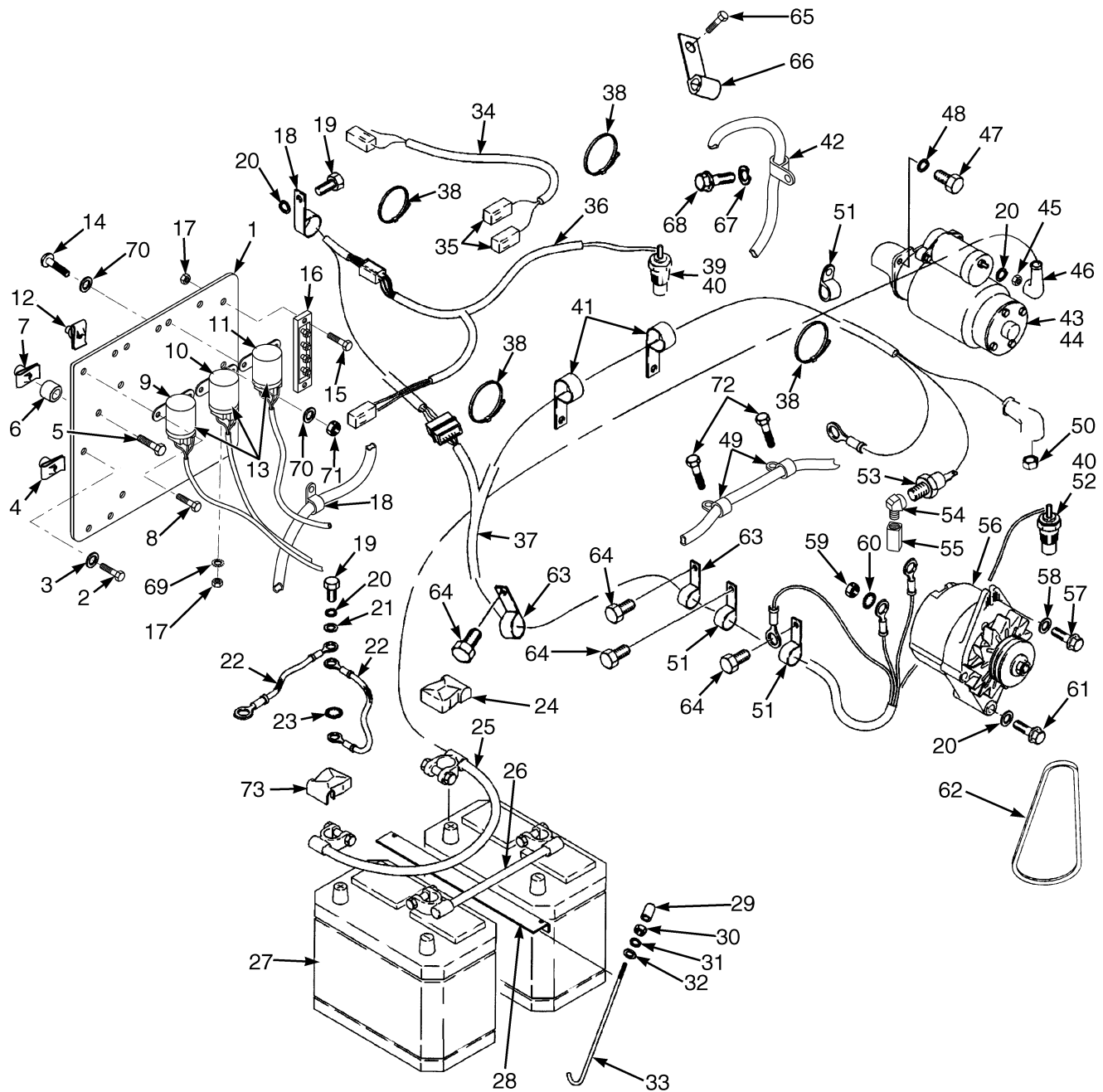
ITEM	PART NO.	DESCRIPTION	QTY
46	296361	Washer	1
47	204223	Boot	2
48	1324518	Switch	1
49	1350914	Strap	1
50	129563	Strap Clamp	1
51	362416	Wire	2
52	1558060	Wire Harness (Disconnect to Circuit Breaker)	1
53	1345997	Wire Harness (Neutral Start) (☞ Figure 4-14).....	1
53	a 1335842	Wire Harness (Neutral Start) (Forward/Reverse Shift Lever) (☞ Figure 4-15)....	1
54	2062382	Wire Harness (Interface) (☞ Figure 4-16).....	1
55	190383	Boot	1
56	15002	Nut	2
57	15152	Lockwasher	2
58	2062262	Capscrew	2
59	292678	Lockwasher	2
60	292667	Nut	2
61	2044948	Breaker (50 Amp)	1
62	1528482	Capscrew	4
63	381879	Spacer	4
64	1480237	Nut	4
65	1544837	Bracket	1
66	2063101	Engine Control Module	1

FOOTNOTES:**a** → S/N G006V03427C**b** S/N G006V03428C →

NOTES

[illegible]

ELECTRICAL SYSTEM (FIGURE 4-3) DIESEL



BP080265

**ELECTRICAL SYSTEM
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1544837	Bracket	1
2	2044515	Capscrew	1
3	320155	Washer	1
4	1376581	Nut	1
5	1528482	Capscrew	4
6	381879	Spacer	6
7	1480237	Nut	4
8	1527876	Capscrew	6
9	1558221	Label (Relay Lift Pump)	1
10	1558222	Label (Relay Glow Plug)	1
11	1558218	Label (Relay Starter Solenoid)	1
12	325182	Nut	6
13	1454967	Relay	3
14	2067651	Capscrew	2
15	1531479	Capscrew	2
16	1545154	Buss Bar (100 Amp)	1
17	1514429	Nut	2
18	272133	Clamp	1
19	287854	Capscrew	2
20	292682	Lockwasher	3
21	320159	Washer	1
22	362416	Wire	2
23	296361	Washer	1
24	1595774	Boot	1
25	1536269	Battery Cable	1
26	366682	Battery Cable	1
27	1383331	Start Battery Wet	2
27	146938	Start Battery Wet (Wet) (Optional)	2
27	177894	Start Battery Dry (Dry) (Optional)	2
28	309152	Battery Hold Down	2
29	1326939	Cap	4
30	136687	Nut	4
31	292680	Washer	4
32	320156	Washer	5
33	309124	Battery Hold Down (Battery Hold Down)	4
34	1339440	Wire Harness (Monotrol Pedal)	1
34	d 2078469	Wire Harness (Forward/Reverse Lever)	1
35	181045	Connector Body	2
36	1312702	Wire Harness (Neutral Start)	1
36	b 1312703	Wire Harness (Neutral Start) (Forward and Reverse Lever)	1
37	2062380	Wire Harness (Engine) (☞ Figure 4-17).....	1
38	129563	Strap Clamp	4
39	1319190	Temperature Sender	1
40	246108	Sealant	AR
41	128408	Clamp	2
42	124359	Clamp	2
43	264159	Adhesive	AR
44	2065976	Starter (☞ Figure 4-7).....	1
45	302398	Locknut	1
46	204223	Boot	1

ELECTRICAL SYSTEM DIESEL

ITEM	PART NO.	DESCRIPTION	QTY
47	16815	Capscrew	3
48	15156	Lockwasher	3
49	164488	Clamp	4
50	815597	Nut	1
51	124297	Clamp	5
52	1330353	Pressure Sender	1
53	190252	Pressure Switch	1
54	12821	Fitting	1
55	1475493	Fitting (Adapter)	1
56	1469598	Alternator	1
57	1527881	Capscrew	1
58	296421	Washer	1
59	136687	Nut	2
60	296359	Washer	2
61	292524	Capscrew	1
62	a 1455809	V-Belt	1
62	c 1588325	V-Belt Set	1
63	387316	Clamp	2
64	1528778	Capscrew	5
65	1527876	Capscrew	2
66	188631	Clamp	1
67	320157	Washer	1
68	283149	Capscrew	1
69	296379	Washer	6
70	320154	Washer	4
71	292667	Nut	2
72	1527879	Capscrew	2
73	1595776	Boot	1

FOOTNOTES:

a → S/N G006V01872B

b → S/N G006V03427C

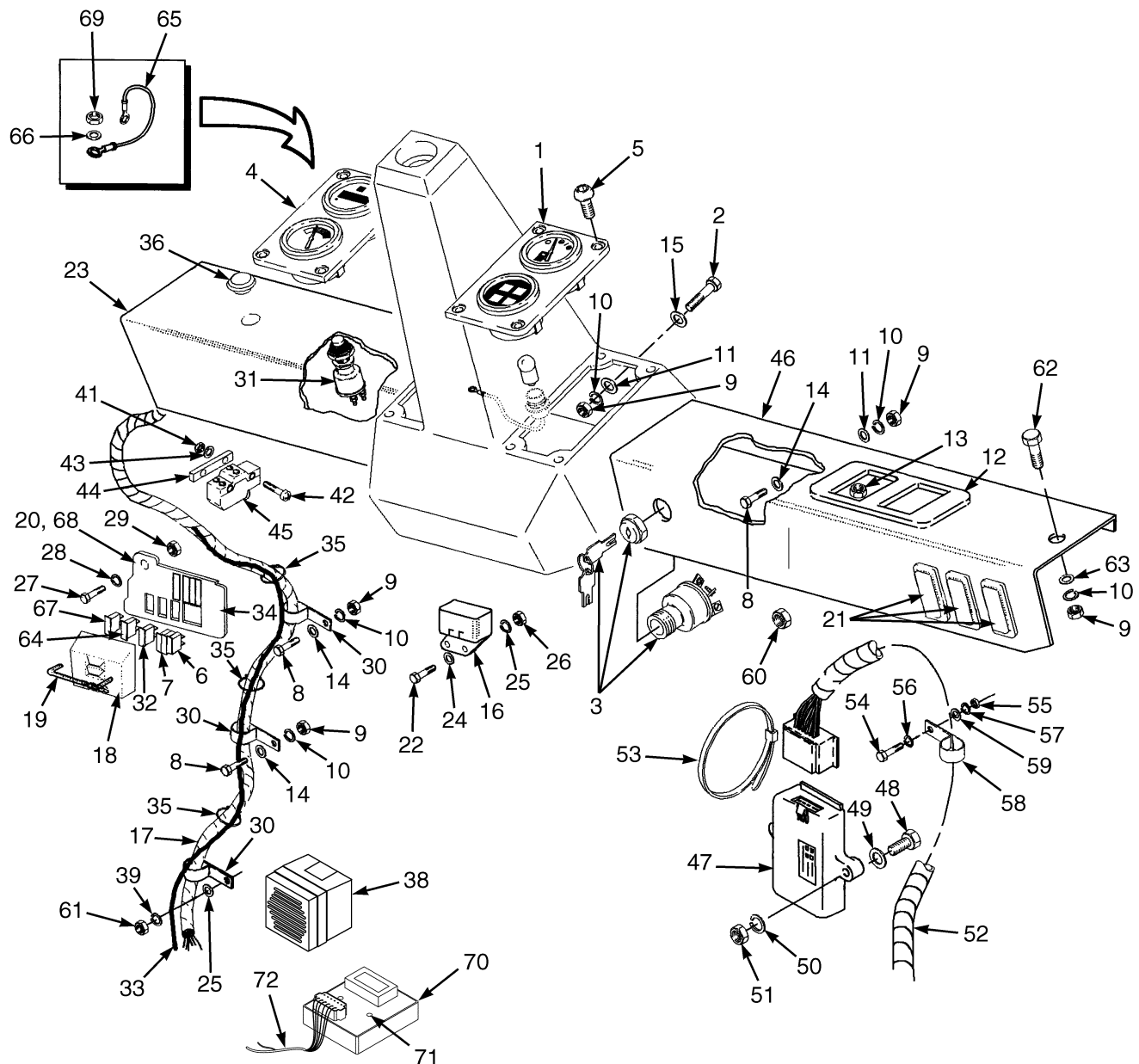
c S/N G006V01873B →

d S/N G006V03428C →

NOTES

[illegible]

INSTRUMENT PANEL (FIGURE 4-4)



HP081386

INSTRUMENT PANEL

ITEM	PART NO.	DESCRIPTION	QTY
1	a 1346745	Instrument Cluster (RH) (☞ Figure 4-5).....	1
1	c 2067519	Instrument Cluster (RH) (☞ Figure 4-5).....	1
1	b 1346708	Instrument Cluster (RH) (☞ Figure 4-5).....	1
2	292502	Capscrew	4
3	379902	Ignition Switch	1
3	1337197	Key Set	1
4	abc 1324313	Instrument Cluster (LH) (☞ Figure 4-5).....	1
4	abc 2035913	Instrument Cluster (LH) (☞ Figure 4-5).....	1
5	370676	Screw	8
6	370646	Fuse (5 Amp)	2
7	370647	Fuse (10 Amp)	1
8	292502	Capscrew	4
9	136687	Nut	8
10	292680	Washer	8
11	197068	Washer	6
12	352985	Bezel	1
13	352987	Nut	2
14	296359	Washer	6
15	296359	Washer	6
16	157554	Relay	1
17	e 1346717	Wire Harness (Main) (LPG and Gasoline) (☞ Figure 4-10).....	1
17	f 2074434	Wire Harness (Main) (LPG and Gasoline)	1
17	f 2074433	Wire Harness (Main) (Diesel)	1
17	e 1346716	Wire Harness (Main) (Diesel) (☞ Figure 4-13).....	1
18	370863	Cover	1
19	370864	Cover (Cover)	1
20	1337886	Bracket (LPG and Gasoline)	1
20	1320659	Bracket (Diesel)	1
21	374046	Plug	4
22	136749	Screw	1
23	1346715	Panel (LH)	1
24	320158	Washer	1
25	292681	Lockwasher	3
26	239503	Nut	2
27	16836	Capscrew	1
28	15155	Lockwasher	1
29	376397	Retainer (Retainer)	1
30	101625	Clamp	1
31	a 370776	Switch (Momentary)	1
32	a 370648	Fuse (20 Amp)	1
33	a 1322652	Wire Harness (Thermo Start)	1
34	a 1323597	Label (Diesel Fuses)	1
35	a 129563	Strap Clamp	3
36	bc 350498	Plug	1
37	bc 1383791	Label	1
38	e 1511904	Horn	1
38	f 1524525	Horn	1
39	320159	Washer	AR
41	d 15049	Nut	2
42	d 86510	Screw	2
43	d 138573	Washer	2

INSTRUMENT PANEL

ITEM	PART NO.	DESCRIPTION	QTY
44	d 316132	Spacer	1
45	d 370868	Switch (Park Brake)	1
46	1346713	Instrument Panel (RH)	1
47	c 1335001	Governor Controller (2500 RPM) (Standard)	1
48	c 302250	Capscrew	2
49	c 197067	Washer	4
50	c 292679	Washer	2
51	c 292668	Nut	2
52	c 1360971	Wire Harness (Governor)	1
53	c 114312	Strap Clamp	1
54	c 136681	Capscrew	1
55	c 239503	Nut	1
56	c 296360	Washer	1
57	c 292681	Lockwasher	1
58	c 146047	Clamp	1
59	c 320157	Washer	1
60	c 302399	Nut	1
61	239503	Nut	2
62	353144	Capscrew	2
63	197068	Washer	2
64	1310630	Fuse (15 Amp)	1
65	1346733	Wire	1
66	16743	Lockwasher	1
67	bc 1300057	Fuse (7.5 Amp)	1
68	bc 381846	Fuse Holder	1
69	15049	Nut	1
70	g 2078333	Module (Operator Presence)	1
71	g 296503	Screw	2
71	g 320154	Washer	2
72	g 2078468	Wire Harness (☞ Figure 4-25).....	1

FOOTNOTES:

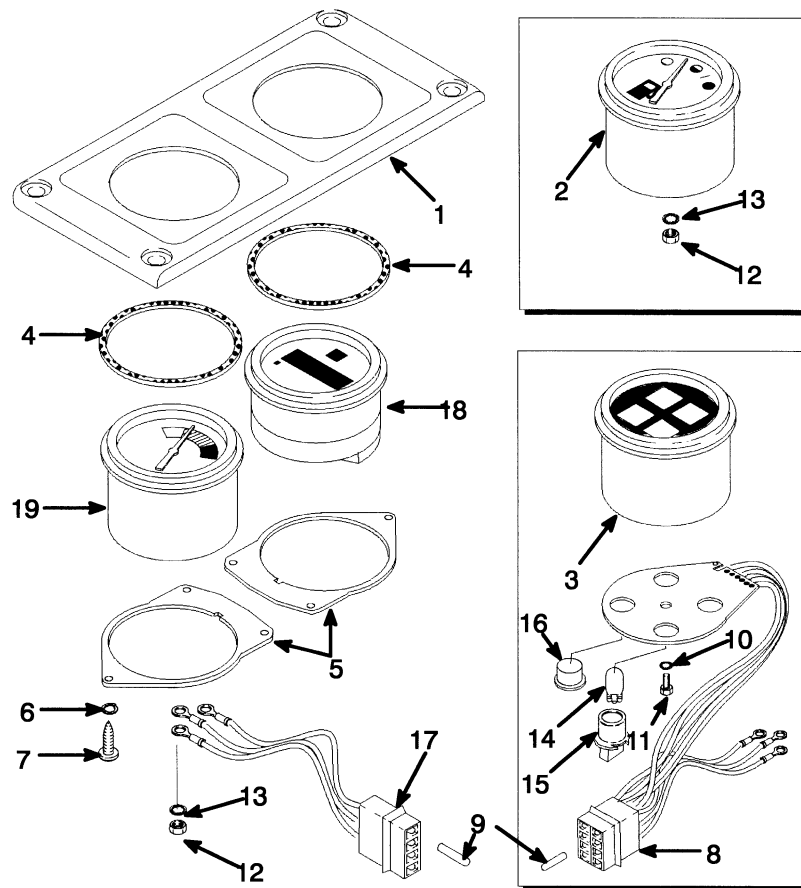
a Diesel
b Gasoline
c LPG
d Park Brake

e → S/N G006V02875C
f S/N G006V02876C →
g S/N G006V03428C →

NOTES

[illegible]

GAUGE CLUSTER (FIGURE 4-5)



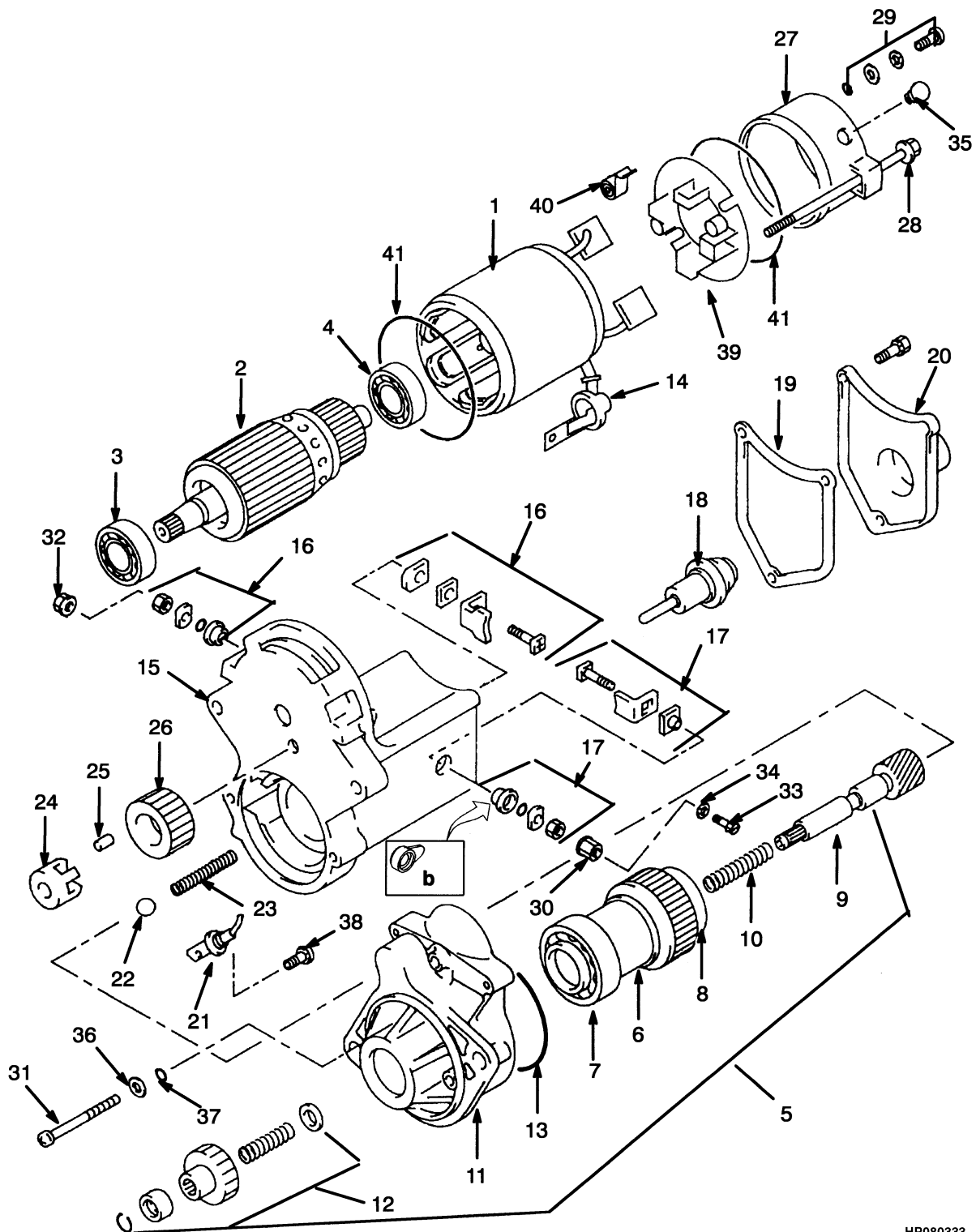
HP080114

GAUGE CLUSTER**KEY:****A: Right Hand Side (Gasoline)****B: Right Hand Side (Diesel)****C: Right Hand Side (LPG)****D: Left Hand Side**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
	1346708	Instrument Cluster	1	..	..	..
	1346745	Instrument Cluster	..	1	..	..
	2067519	Instrument Cluster	..	..	1	..
	b 1324313	Instrument Cluster	..	..	..	1
	a 2035913	Instrument Cluster (Optional)	..	..	..	1
1	1312473	Bezel	1	1	..	1
1	1458291	Bezel	..	..	1	..
2	1312344	Fuel Gauge	1	1	..	..
3	1312345	Light Panel	..	..	1	..
3	1347952	Light Panel	1	..	..	..
4	1312339	Gasket	2	2	1	2
5	1312340	Bracket	2	2	1	2
6	18419	Lockwasher	6	6	3	6
7	227131	Screw	6	6	3	6
8	1317393	Connector Body	1	1	1	..
9	367966	Pin	8	6	5	3
10	15916	Lockwasher	1	1	1	..
11	185806	Screw	1	1	1	..
12	15049	Nut	3	3	..	3
13	16743	Lockwasher	3	3	..	3
14	1320001	Bulb	4	3	4	..
15	1317394	Terminal	4	3	4	..
16	1312348	Plug	..	1	..	..
17	367953	Connector Body	..	..	..	1
18	1312337	Hourmeter	..	..	..	1
18	1479807	Hourmeter (Optional) (Without Hyster Logo)	..	..	..	1
19	1329414	Temperature Gauge	..	..	..	1

FOOTNOTES:**a** Diesel**b** LPG, Gasoline and Diesel

STARTER (FIGURE 4-6) GASOLINE AND LPG

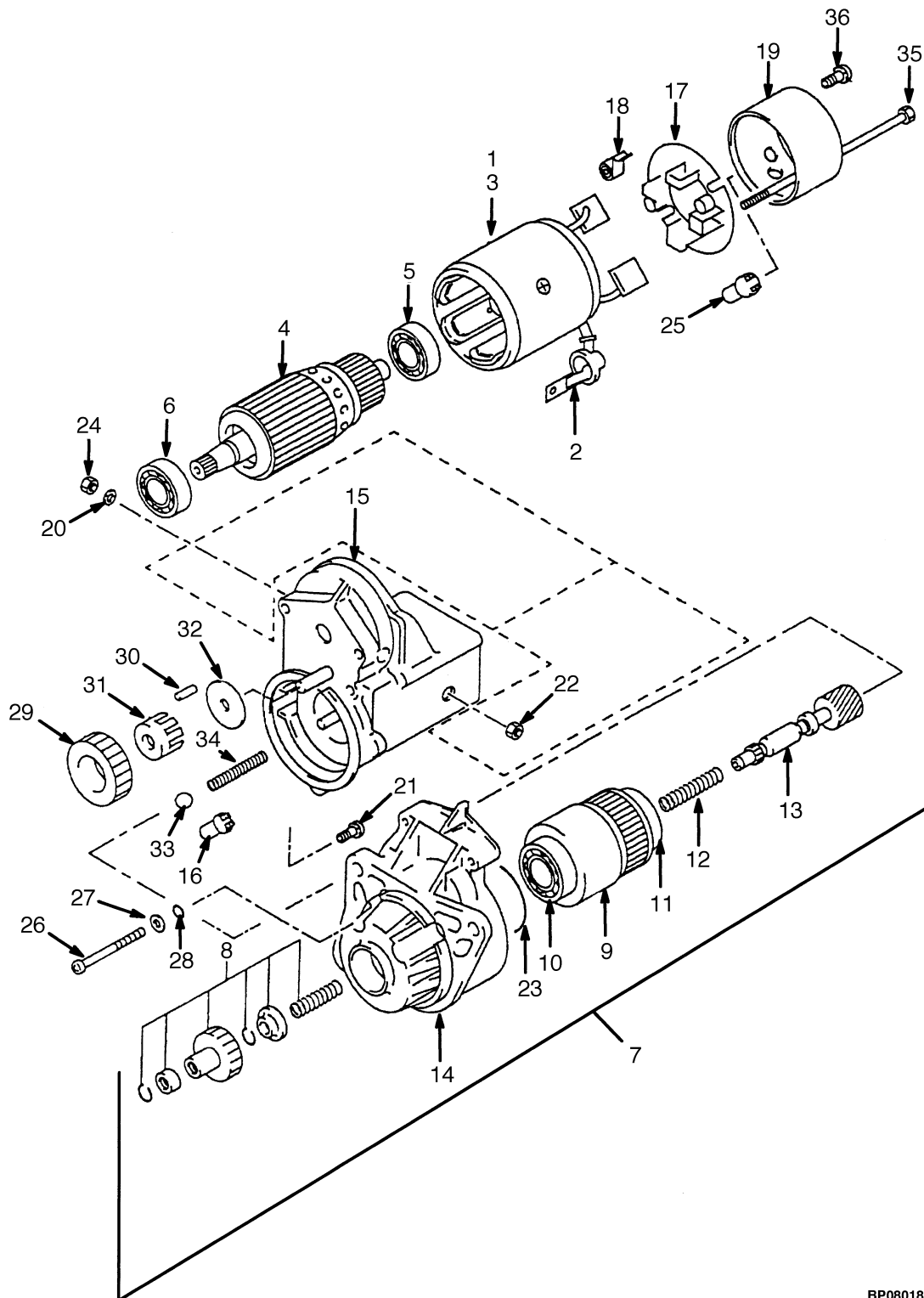


HP080333

**STARTER
GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	1383240	Starter	1
1	1390149	Yoke	1
1		Brushes	2
2	1390152	Armature	1
3	1390168	Ball Bearing	1
3	1453889	Ball Bearing (Optional)	1
4	1390169	Ball Bearing	1
5	1453546	Clutch Assy	1
6		Clutch	1
7		Bearing	1
8		Ball Bearing	1
9		Shaft	1
10		Spring	1
11		Housing	1
12		Pinion Kit	1
13	1459303	Seal	1
14	1390173	Cover	1
15	1465586	Switch	1
16	1465587	Kit-Terminal (M)	1
17	1453551	Kit-Terminal (C)	1
18	1391238	Plunger	1
19	1391239	Gasket	1
20	1391240	Cover	1
21	1391241	Bolt (Terminal)	1
22	1453890	Ball Bearing (Optional)	1
22	324637	Ball	1
23	1390158	Spring	1
24	1390157	Retainer	1
25	324634	Roller	5
26	1390156	Pinion	1
27	1391243	Frame	1
28	1390161	Bolt	2
29	1390162	Screw	2
30	1390165	Nut	1
31	1390160	Screw	2
32	1390172	Nut	1
33	1390166	Bolt	1
34	1391244	Washer	1
35	1390171	Cover	1
36	1390163	Washer	2
37	1390164	O-Ring	2
38	1390167	Screw	1
39	1390155	Brush Holder	1
40	1390159	Spring	4
41	1390170	O-Ring	2

STARTER MOTOR (FIGURE 4-7) DIESEL



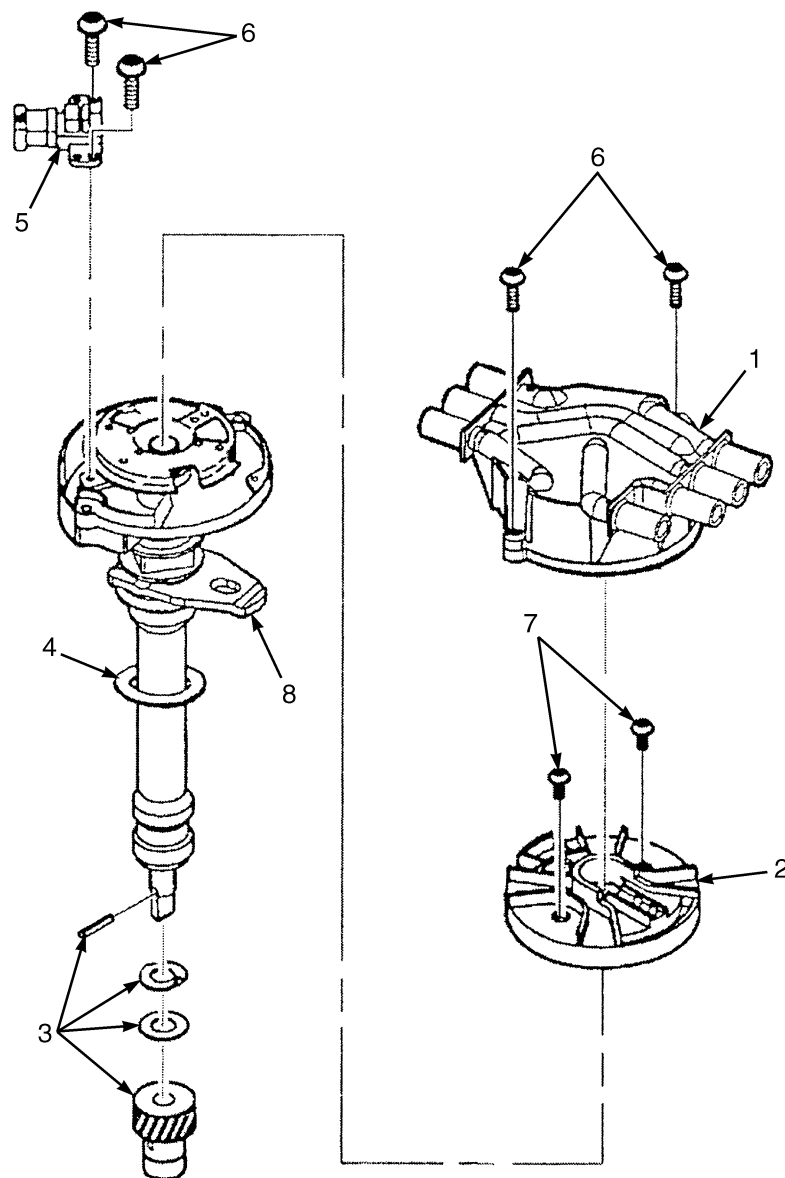
BP080180

**STARTER MOTOR
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2065976	Starter	1
1	1462233	Yoke	1
2	1462234	Cover	1
3	1462235	Kit-Brush	2
4	1462236	Armature	1
5	1462239	Ball Bearing	1
6	1462240	Bearing	1
7	1462241	Clutch Assy	1
8		Kit-Pinion	1
9		Clutch Sub Assembly	1
10		Ball Bearing	1
11		Ball Bearing	1
12		Spring	1
13		Shaft	1
14		Housing	1
15	1558111	Switch (Magnetic)	1
16	1462256	Bushing	1
17	1462257	Brush Holder	1
18	1462258	Spring	4
19	1558105	Frame	1
20	1462271	Lockwasher	1
21	1390167	Screw	1
22	1462273	Nut	1
23	1462272	Seal	1
24	1462270	Nut	1
25	1367107	Cover	1
26	1367106	Bolt	3
27	1390163	Washer	3
28	1390164	O-Ring	3
29	1462262	Pinion	1
30	1462263	Roller	5
31	1462264	Retainer	1
32	1462265	Retainer	1
33	324637	Ball	1
34	1462261	Spring	1
35	1558109	Bolt	2
36	1462267	Screw	2
41	1558112	Kit-Starter (Bolt)	1
42	1558113	Kit-Starter (Pinion)	1
43	1558114	Kit-Starter (Compression Spring)	1
44	1558115	Kit-Starter (Bolt)	1

DISTRIBUTOR (FIGURE 4-8)

4.3L EPA COMPLIANT ENGINE



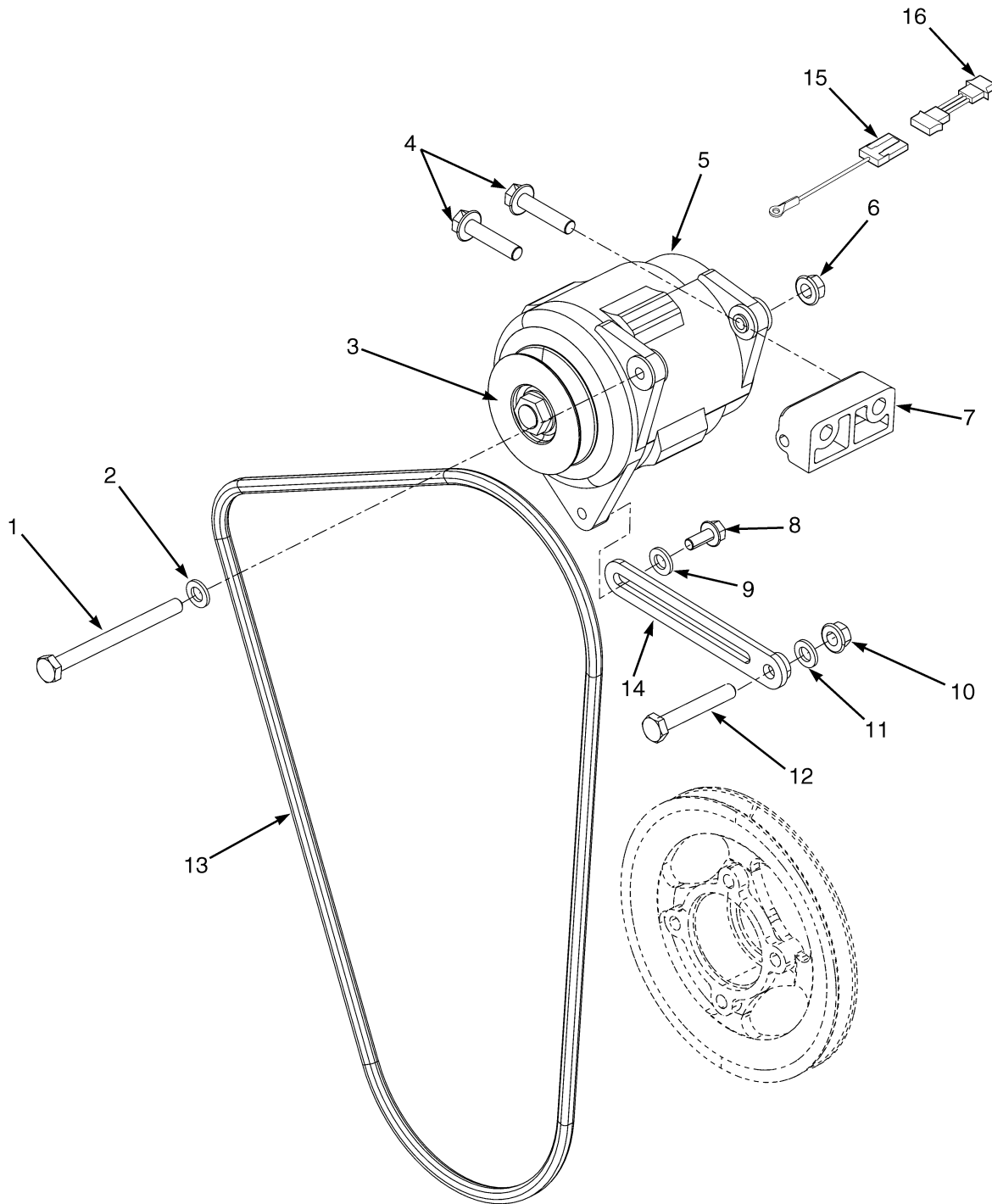
BP080184

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

NOTES

[illegible]

ALTERNATOR AND MOUNTING (FIGURE 4-9) DIESEL



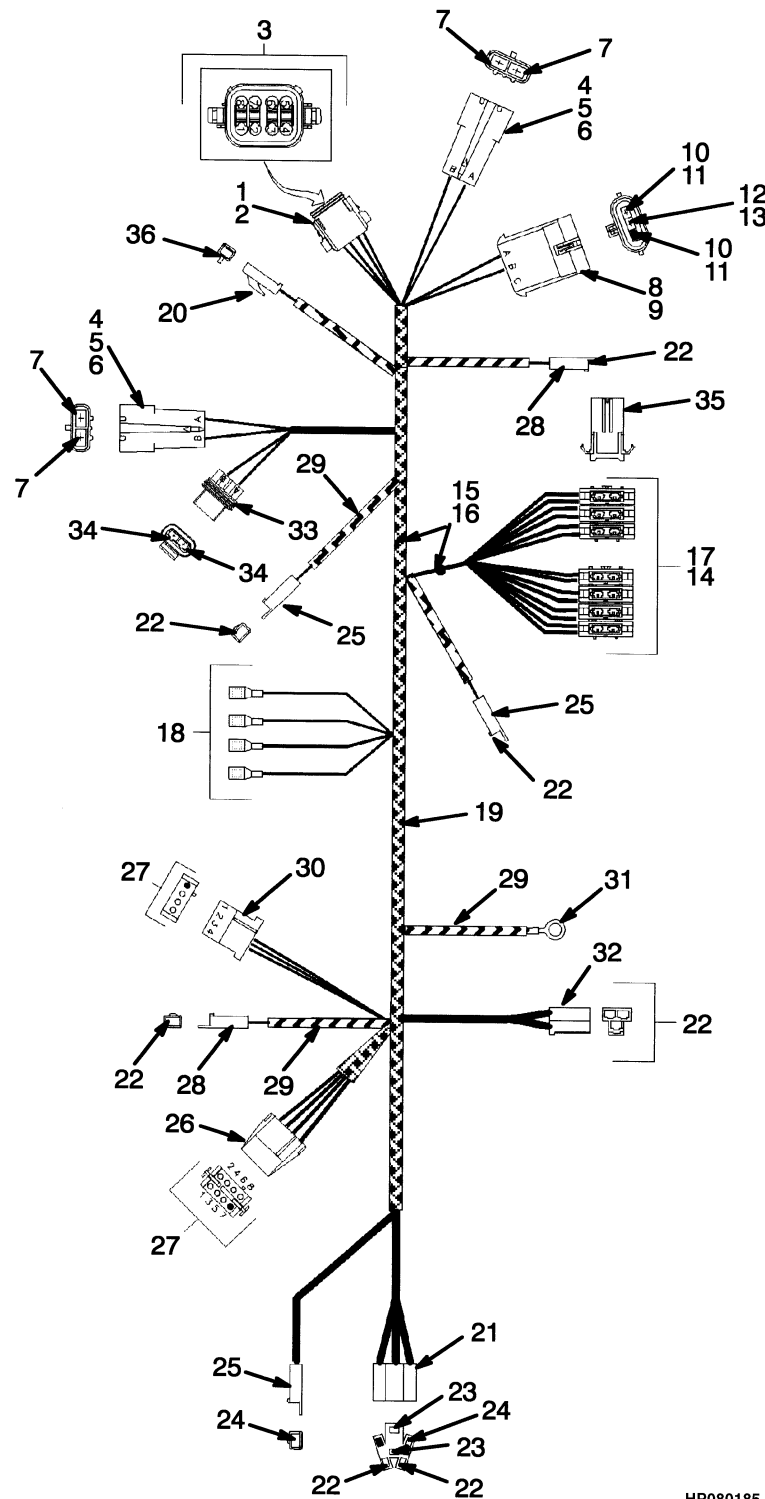
BP080333

**ALTERNATOR AND MOUNTING
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
1	1588951	Screw	1
2	296418	Washer	1
3	1588320	Pulley	1
4	1382963	Screw	2
5	1588319	Alternator	1
6	1454156	Locknut	1
7	1588322	Bracket	1
8	1306358	Screw	1
9	161520	Washer	1
10	1454156	Locknut	1
11	983255	Washer	1
12	1588951	Screw	1
13	a 1455809	V-Belt	1
13	b 1588325	V-Belt Set	1
14	1588321	Lever (Adjusting)	1
15	2072923	Wire Harness	1
16	1469606	Adapter	1

FOOTNOTES:**a** → S/N G006V01872B**b** S/N G006V01873B →

WIRE HARNESS (FIGURE 4-10) MAIN — LPG AND GASOLINE (→ S/N G006V02875C)

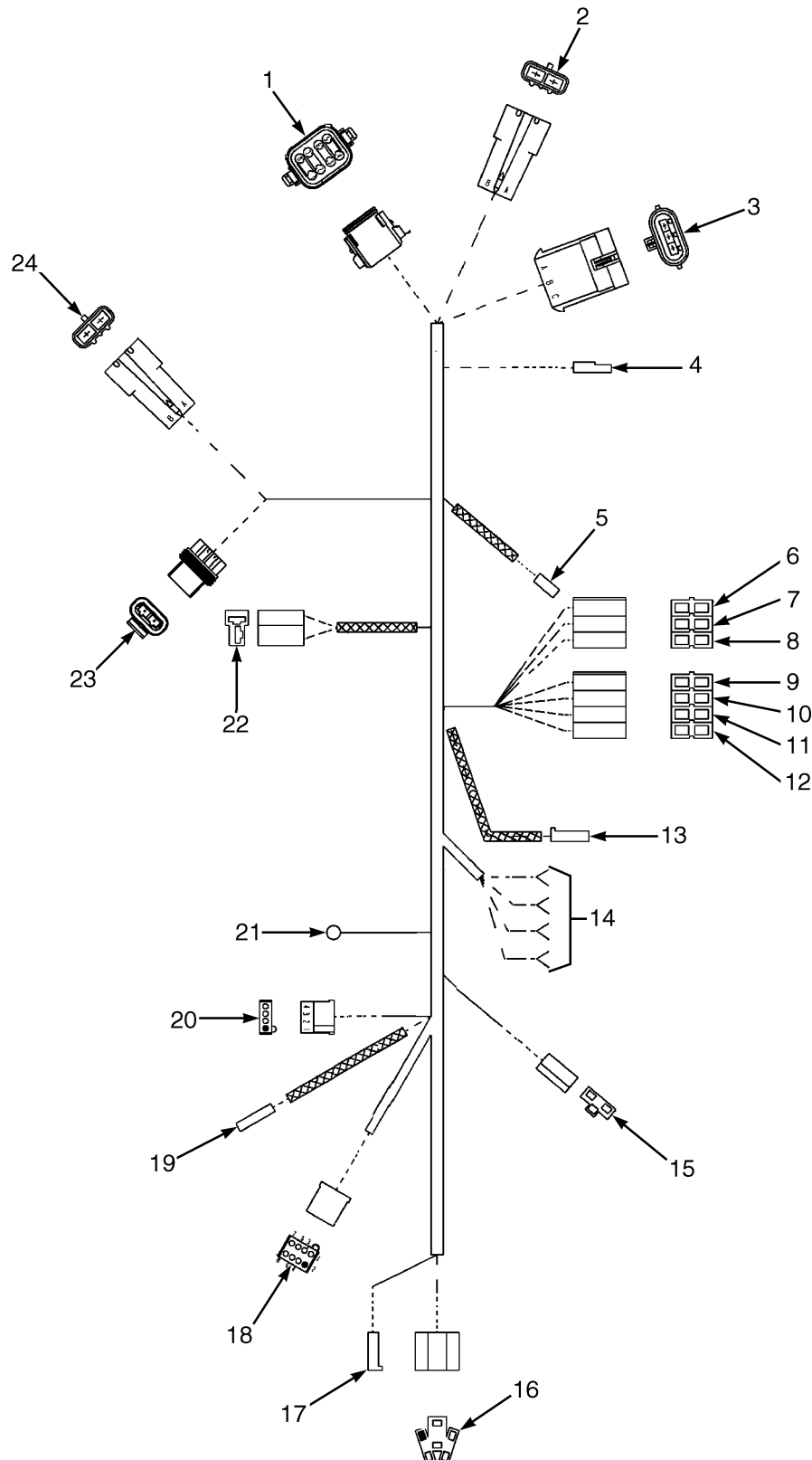


HP080185

WIRE HARNESS **MAIN – LPG AND GASOLINE (→ S/N G006V02875C)**

ITEM	PART NO.	DESCRIPTION	QTY
	1346717	Wire Harness (Main)	1
1	1330423	Connector (Engine Harness)	1
2	1330429	Connector	1
3	1330434	Terminal (Optional)	8
3	1330438	Terminal (Socket)	8
4	1336870	Connector (Engine Harness)	2
5	1336874	Seal	2
6	1336871	Lock	2
7	1337392	Terminal	4
8	1337383	Connector (Engine Harness)	1
9	1337384	Terminal	1
10	1336872	Terminal	2
11	1337386	Seal	2
12	1337385	Terminal	1
13	1337388	Seal	1
14	381846	Fuse Holder	7
15	201954	Splice	2
16	175944	Heat Shrink	AR
17	381847	Terminal	12
18	325789	Terminal	4
19	381919	Braiding	AR
20	181045	Connector Body	1
21	370728	Connector Body	1
22	134812	Terminal	8
23	141462	Terminal	2
24	134811	Terminal	2
25	181046	Connector Body	2
26	370727	Connector Body	1
27	367968	Socket	10
28	129889	Connector Body	1
29	30492	Conduit	AR
30	367960	Socket	1
31	129888	E-Ring	1
32	126319	Connector Body	1
33	1330292	Connector (Neutral Start Harness)	1
34	1330283	Terminal	2
35	277446	Connector Body	1
36	134810	Terminal	1

WIRE HARNESS (FIGURE 4-11) MAIN — LPG AND GASOLINE (S/N G006V02876C →)



BP080306

WIRE HARNESS **MAIN – LPG AND GASOLINE (S/N G006V02876C →)**

ITEM	PART NO.	DESCRIPTION	QTY
	2074434	Wire Harness (Main)	1
1		Connector Assembly (Engine Harness)	1
1	1330423	Connector	1
1	1330429	Connector	1
1	1330439	Plug	1
1	1330438	Terminal (Socket)	7
2		Connector Assembly (Engine Harness)	1
2	1336870	Connector	1
2	1326874	End Head	1
2	1336871	Lock	1
2	1337392	Terminal	2
3		Connector Assembly (Engine Harness)	1
3	1337384	Terminal	1
3	1337383	Connector	1
3	1336872	Terminal	2
3	1337386	Seal	2
3	1337385	Terminal	1
3	1337388	Seal	1
4		Connector Assembly (Monotrol Harness)	1
4	181045	Connector Body	1
4	134810	Terminal	1
5		Connector Assembly	1
5	129889	Connector Body	1
5	134812	Terminal	1
6		Connector Assembly (Transmission Solenoid Fuse)	1
6	381847	Terminal	1
6	1300231	Terminal	1
7		Connector Assembly (R.H. Instrument Fuse)	1
7	381847	Terminal	2
8		Connector Assembly (Horn Fuse)	1
8	381847	Terminal	2
9		Connector Assembly (Light Kit Fuse)	1
9	381847	Terminal	1
10		Connector Assembly (Light Kit Fuse)	1
10	381847	Terminal	1
11		Connector Assembly (ECM)	1
11	381847	Terminal	2
12		Connector Assembly (Injectors)	1
13		Connector Assembly (Cab)	1
13	181046	Connector Body	1
13	381847	Terminal	2
13	134812	Terminal	1
14	325789	Terminal (Park Brake Switch)	4
15		Connector Assembly (Horn Relay)	1
15	126319	Connector Body	1
15	134812	Terminal	3
16		Connector Assembly (IgnitionSwitch)	1
16	370728	Connector Body	1
16	134812	Terminal	2
16	134811	Terminal	1

WIRE HARNESS

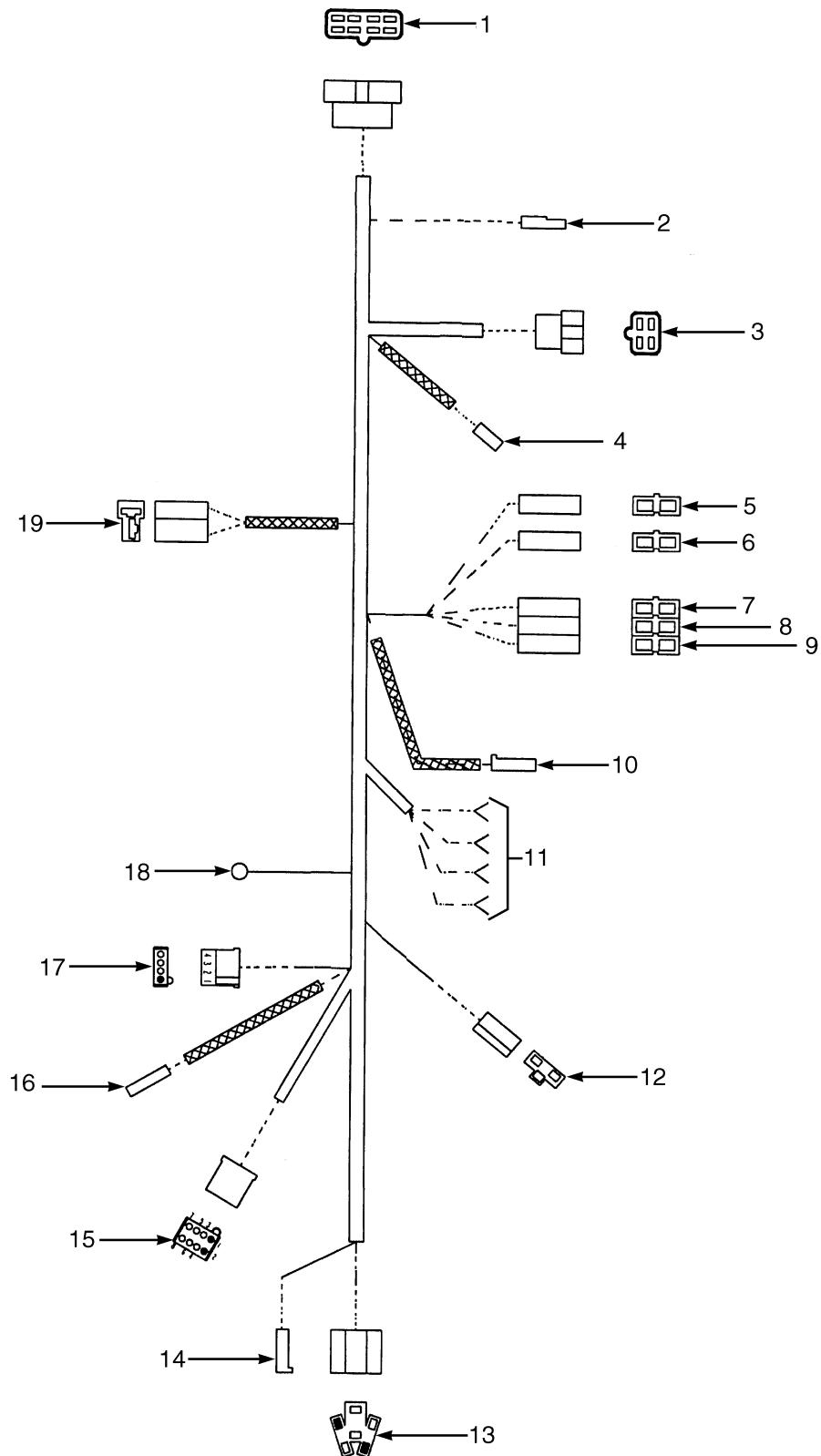
MAIN – LPG AND GASOLINE (S/N G006V02876C →)

ITEM	PART NO.	DESCRIPTION	QTY
16	141462	Terminal	2
17		Connector Assembly (IgnitionSwitch Ground)	1
17	181046	Connector Body	1
17	134811	Terminal	1
18		Connector Assembly (R.H. Cluster)	1
18	370727	Connector Body	1
18	367968	Socket	7
19		Connector Assembly (Horn Button)	1
19	129889	Connector Body	1
19	134812	Terminal	1
20		Connector Assembly (L.H. Cluster)	1
20	367960	Socket	1
20	367968	Socket	3
21	129888	E-Ring (Cowl Ground)	1
22		Connector Assembly (Horn)	1
22	1537135	Connector Body	1
22	233141	Terminal	2
23		Connector Assembly (Neutral Start Harness)	1
23	1330292	Connector	1
23	1330283	Terminal	2
24		Connector Assembly (Neutral Start Harness)	1
24	1336870	Connector	1
24	1336874	Seal	1
24	1336871	Lock	1
24	1337392	Terminal	2

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-12) MAIN — DIESEL (S/N G006V02876C →)



BP080307

WIRE HARNESS

MAIN – DIESEL (S/N G006V02876C →)

ITEM	PART NO.	DESCRIPTION	QTY
	2074433	Wire Harness (Main)	1
1		Connector Assembly (Engine Harness)	1
1	181053	Connector Body	1
1	134810	Terminal	8
2		Connector Assembly (Monotrol Harness)	1
2	181045	Connector Body	1
2	134810	Terminal	1
3		Connector Assembly (Neutral Start Harness)	1
3	181049	Connector Body	1
3	134810	Terminal	4
4		Connector Assembly (Fuel Level Sender)	1
4	129889	Connector Body	1
4	370730	Terminal	1
5		Connector Assembly (Lights)	1
5	381847	Terminal	1
6		Connector Assembly (Lights)	1
6	381847	Terminal	1
7		Connector Assembly (Horn)	1
7	381847	Terminal	2
8		Connector Assembly (R.H. Instruments)	1
8	381847	Terminal	2
9		Connector Assembly (L.H. Instruments)	1
9	381847	Terminal	1
10	1300231	Terminal (Transmission Solenoid)	1
10		Connector Assembly (Cab)	1
10	181046	Connector Body	1
10	370730	Terminal	1
11	325789	Terminal (Park Brake Switch)	4
12		Connector Assembly (Horn Relay)	1
12	126319	Connector Body	1
12	370730	Terminal	3
13		Connector Assembly (Ignition Switch)	1
13	370728	Connector Body	1
13	370730	Terminal	2
13	134811	Terminal	1
13	141462	Terminal	1
14		Connector Assembly (Ignition Switch Ground)	1
14	181046	Connector Body	1
14	134811	Terminal	1
15		Connector Assembly (R.H. Cluster)	1
15	370727	Connector Body	1
15	367968	Socket	6
16		Connector Assembly (Horn Button)	1
16	129889	Connector Body	1
16	370730	Terminal	1
17		Connector Assembly (L.H. Cluster)	1
17	367960	Socket	1
17	367968	Socket	1
18	129888	E-Ring (Cowl Ground)	1
19		Connector Assembly	1

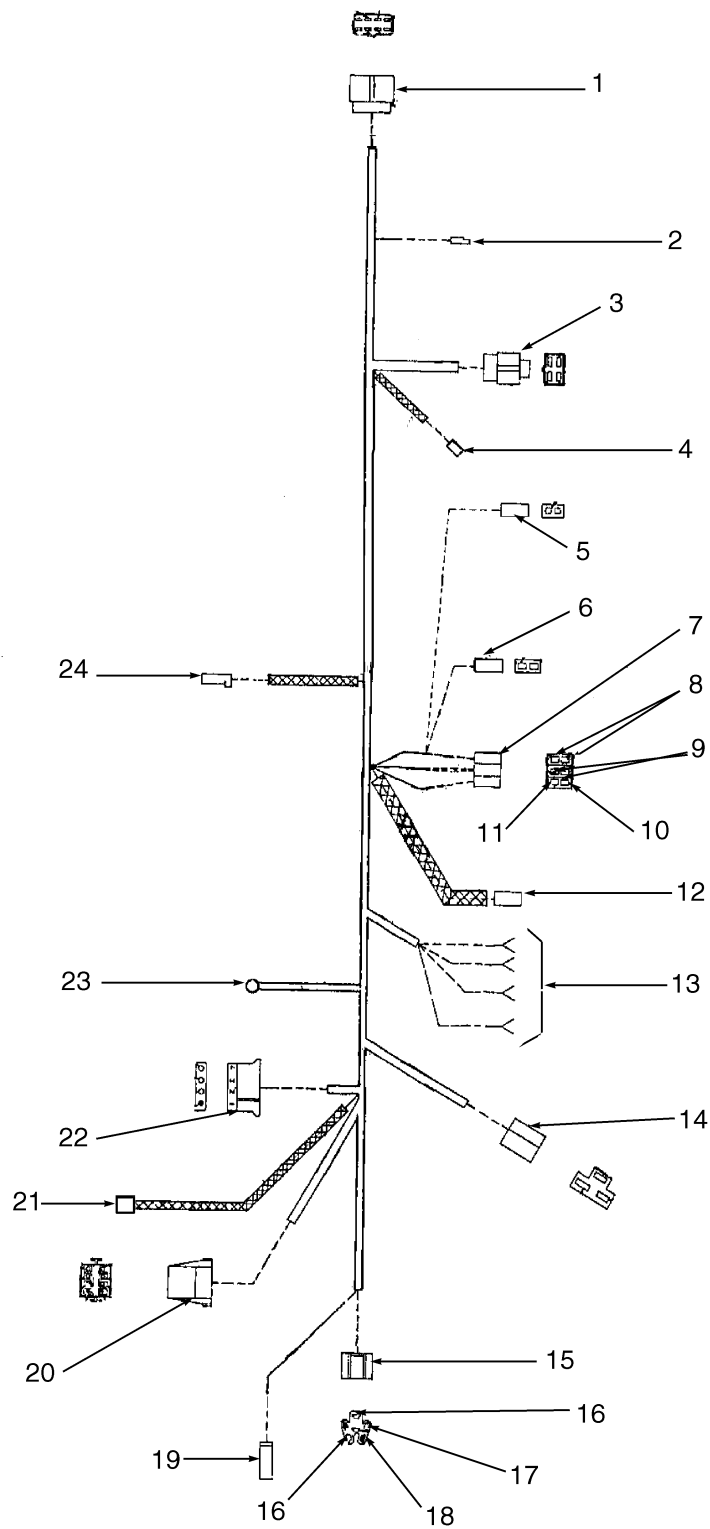
WIRE HARNESS
MAIN – DIESEL (S/N G006V02876C →)

ITEM	PART NO.	DESCRIPTION	QTY
19	30492	Conduit	1
19	233141	Terminal	2
19	1537135	Connector Body	1

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-13) MAIN — DIESEL (→ S/N G006V02875C)



BP080133

WIRE HARNESS
MAIN – DIESEL (→ S/N G006V02875C)

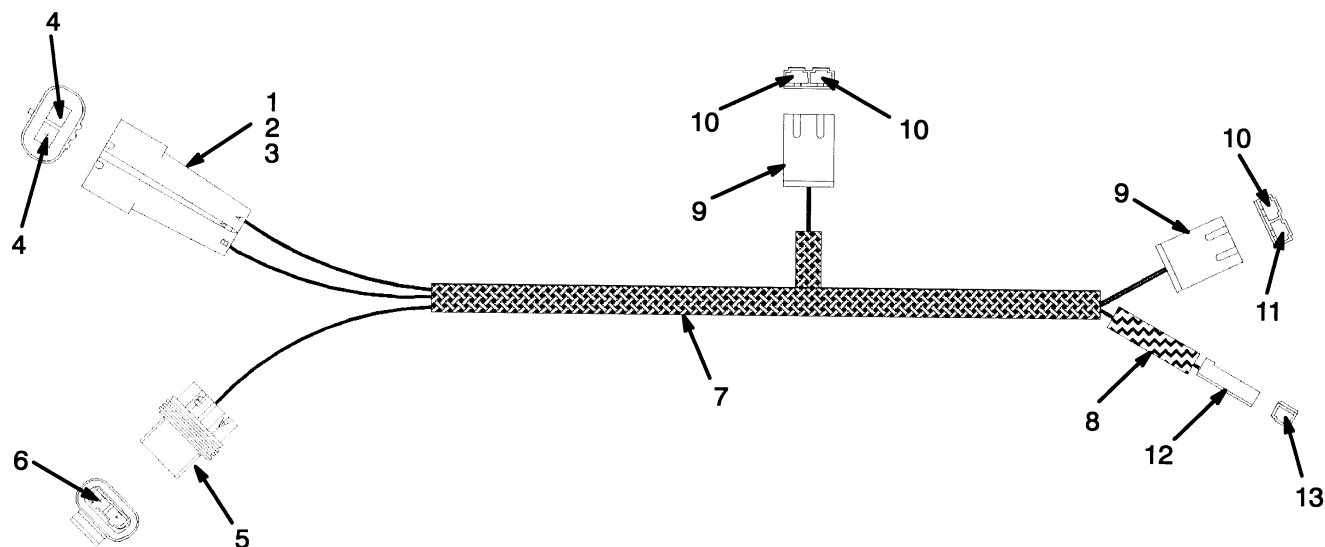
ITEM	PART NO.	DESCRIPTION	QTY
	1346716	Wire Harness (Main)	1
1		Connector Assembly (Engine Harness)	1
1	181053	Connector Body	1
1	134810	Terminal	8
2		Connector Assembly (Monotrol Harness)	1
2	181045	Connector Body	1
3		Connector Assembly (Neutral Start)	1
3	181049	Connector Body	1
3	134810	Terminal	4
4		Connector Assembly (Fuel Level Sender)	1
4	129889	Connector Body	1
4	134812	Terminal	1
5		Connector Assembly (Light Kit, Europe)	1
5	381846	Fuse Holder	1
5	381847	Terminal	2
6		Connector Assembly (Light Kit, US and Europe)	1
6	381846	Fuse Holder	1
6	381847	Terminal	2
7		Connector Assembly	1
7	381846	Fuse Holder	3
8	381847	Terminal (Horn)	2
9	381847	Terminal (RH Instruments)	2
10	1300231	Terminal (Transmission Solenoid)	1
11	381847	Terminal (LH Instruments)	1
12		Connector Assembly (Cab)	1
12	181053	Connector Body	1
12	134812	Terminal	1
13	134812	Terminal (Park Brake Switch)	1
14		Connector Assembly (Horn Relay)	1
14	126319	Connector Body	1
14	134812	Terminal	3
15		Connector Assembly (Ignition Switch)	1
15	370728	Connector Body	1
16	134812	Terminal	2
17	134811	Terminal	1
18	141462	Terminal	1
19		Connector Assembly (Ground)	1
19	181046	Connector Body	1
19	134811	Terminal	1
20		Connector Assembly (RH Cluster)	1
20	370728	Connector Body	1
20	367968	Socket	6
21		Connector Assembly (Horn Button)	1
21	129889	Connector Body	1
21	134812	Terminal	1
22		Connector Assembly (LH Cluster)	1
22	367960	Socket	1
22	367968	Socket	3
23	129888	E-Ring (Cowl Ground)	1
24		Connector Assembly (Horn)	1

WIRE HARNESS
MAIN – DIESEL (→ S/N G006V02875C)

ITEM	PART NO.	DESCRIPTION	QTY
24	277446	Connector Body	1
24	134812	Terminal	1

WIRE HARNESS (FIGURE 4-14)

NEUTRAL START MONOTROL PEDAL — GASOLINE AND LPG

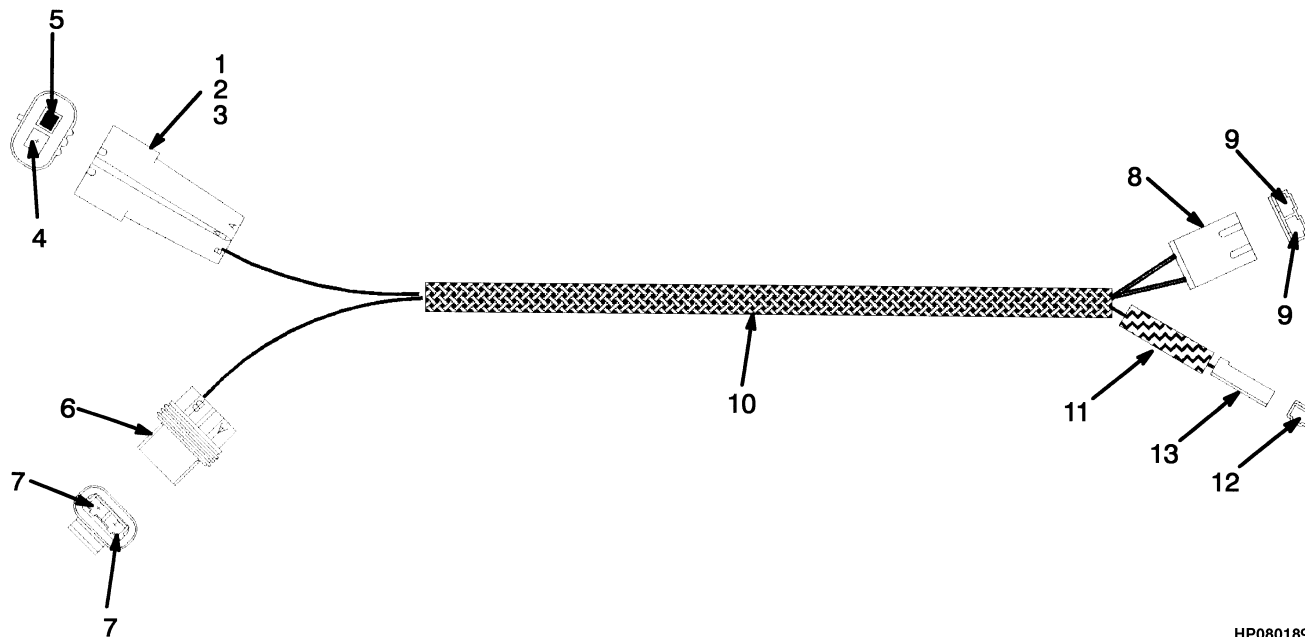


HP081362

ITEM	PART NO.	DESCRIPTION	QTY
	1345997	Wire Harness (Neutral Start)	1
1	1336870	Connector (Frame Harness)	1
2	1336874	Seal	1
3	1336871	Lock	1
4	1337392	Terminal	2
5	1330292	Connector (Frame Harness)	1
6	1330283	Terminal	1
7	381919	Braiding	AR
8	16906	Conduit	AR
9	346330	Connector Body	2
10	370730	Terminal	3
11	1322673	Terminal	1
12	181046	Connector Body	1
13	134812	Terminal	1

WIRE HARNESS (FIGURE 4-15)

NEUTRAL START, FORWARD AND REVERSE LEVER — GASOLINE AND LPG



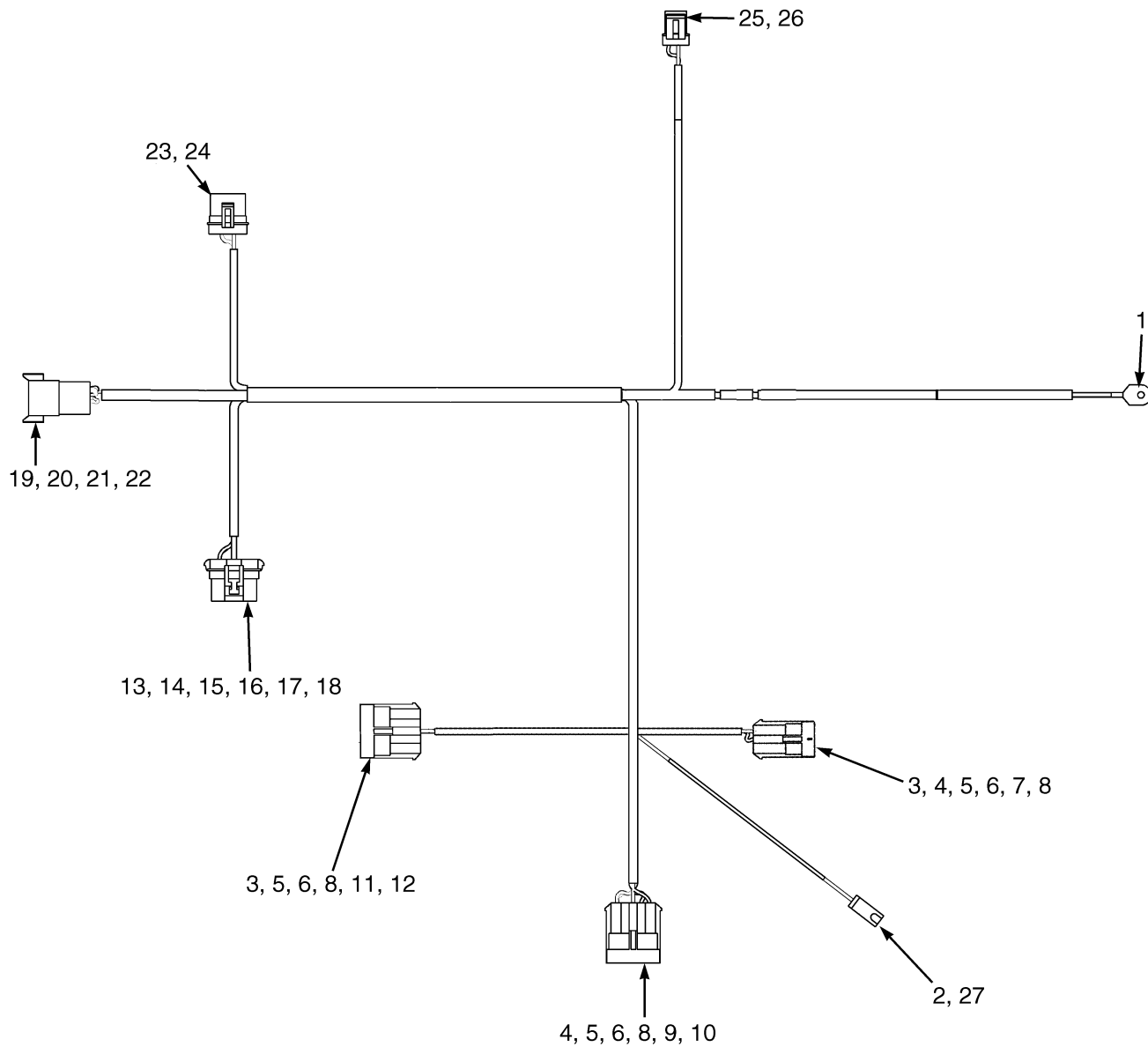
HP080189

ITEM	PART NO.	DESCRIPTION	QTY
	1335842	Wire Harness (Neutral Start)	1
1	1336870	Connector (Frame Harness)	1
2	1336874	Seal	1
3	1336871	Lock	1
4	1337392	Terminal	1
5	1337391	Seal	1
6	1330292	Connector (Frame Harness)	1
7	1330283	Terminal	2
8	346330	Connector Body	1
9	370730	Terminal	2
10	381919	Braiding	AR
11	16906	Conduit	AR
12	134812	Terminal	1
13	181046	Connector Body	1

NOTES

[illegible]

WIRE HARNESS (FIGURE 4-16) INTERFACE

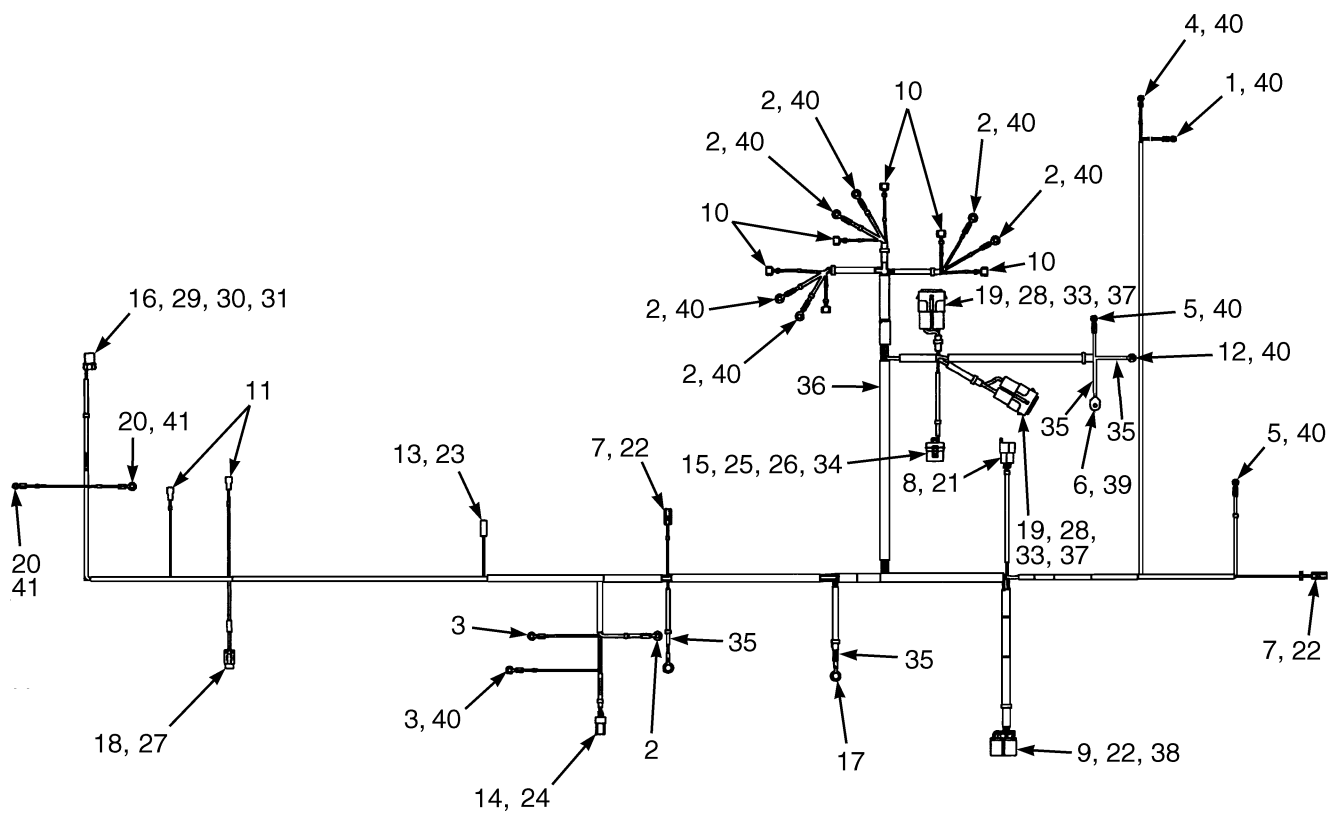


BP080295

**WIRE HARNESS
INTERFACE**

ITEM	PART NO.	DESCRIPTION	QTY
	2062382	Wire Harness (Interface)	1
1	148613	E-Ring	1
2	1301720	Connector Body	1
3	1541609	Connector	1
4	1330356	Seal	1
5	1482668	Plug	17
6	1482666	Connector Body (Male)	7
7	930591	Connector	1
8	1561131	Clip	3
9	1498428	Housing	1
10	1402907	Lock	1
11	1541607	Connector	1
12	1541608	Lock	1
13	1337389	Connector	1
14	1337384	Terminal	1
15	1337387	Seal	1
16	1330304	Terminal	2
17	1337390	Terminal	1
18	1552956	Seal	2
19	1330413	Connector	1
20	1330437	Terminal (Pin)	5
21	1330439	Plug	3
22	1330418	Connector	1
23	1330292	Connector	1
24	1330283	Terminal	2
25	1519611	Connector	1
26	1323576	Terminal	2
27	370730	Terminal	1

WIRE HARNESS (ENGINE) (FIGURE 4-17)



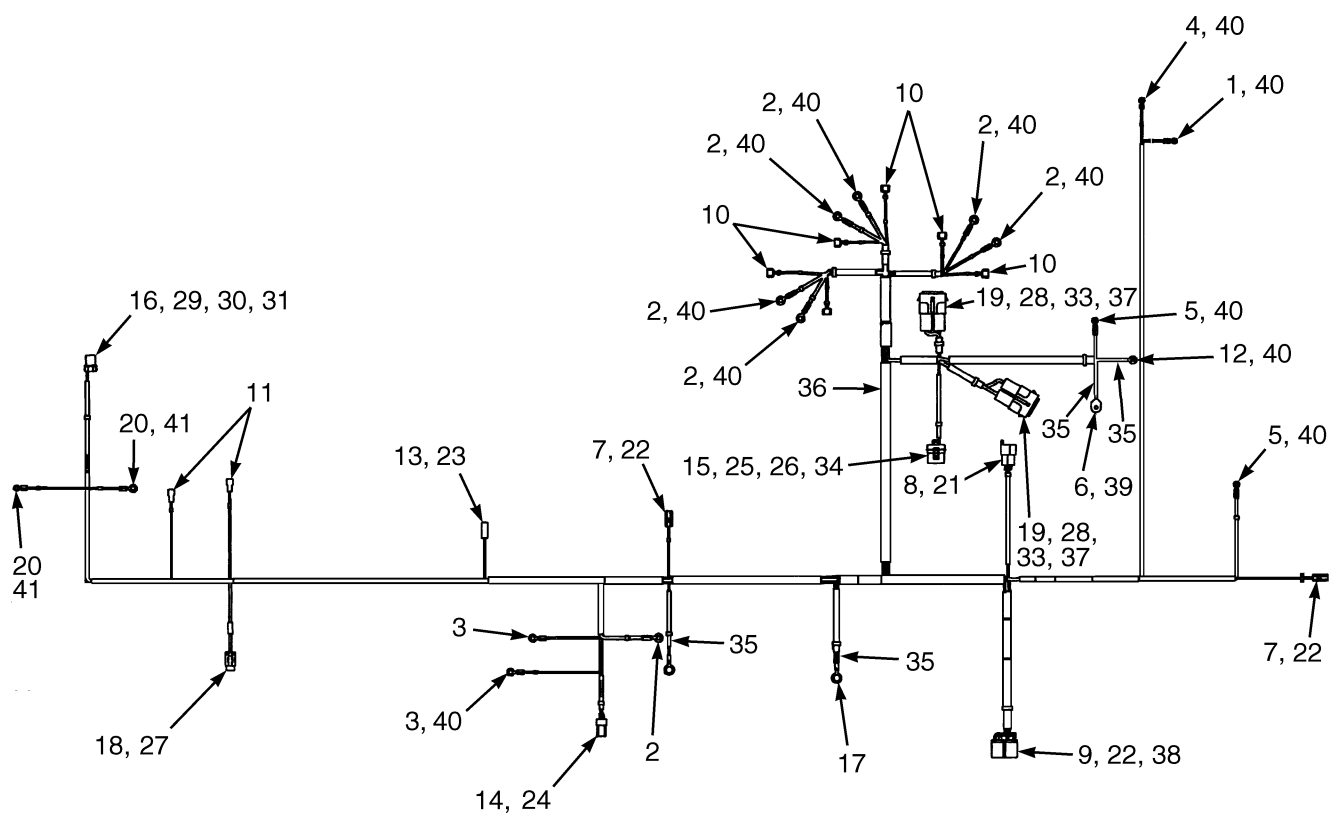
HP081420

**WIRE HARNESS (ENGINE)
DIESEL**

ITEM	PART NO.	DESCRIPTION	QTY
	2062380	Wire Harness (Engine)	1
1	129887	E-Ring (Lift Pump Negative)	1
2	129888	E-Ring	7
3	129894	E-Ring	3
4	148605	Ring Terminal (Lift Pump Positive)	1
5	148610	E-Ring	2
6	148613	E-Ring (Bus Bar #2)	1
7	181046	Connector Body	2
8	181047	Connector Body (Thermo Start Harness)	1
9	181054	Connector Body (Main Harness)	1
10	325789	Terminal (Relays)	6
11	367540	Terminal (Female)	2
12	806424	E-Ring (Bus Bar #3)	1
13	1301720	Connector Body (Water Temperature Sender)	1
14	1323586	Connector (Alternator)	1
15	1330292	Connector (Lift Pump Fuse)	1
16	1330354	Connector (Oil Pressure Switch)	1
17	1354497	E-Ring	2
18	1375782	Connector Body (Glow Plug)	1
19	1454860	Connector Body	2
20	134810	Terminal	2
21	134812	Terminal	9
22	370730	Terminal	1
23	1323576	Terminal	2
24	1330283	Terminal	1
25	1336171	Terminal	1
26	1375783	Terminal (Socket)	1
27	1454828	Terminal	4
28	1330355	Terminal	2
29	1330356	Seal	2
30	1330357	Terminal	1
31	1330424	Connector	1
32	1454862	Cover (With Seal)	2
33	1330293	Cover (Fuse)	1
34	222523	Heat Shrink	AR
35		Conduit	AR
36	1454827	Seal	4
37	1322673	Terminal	1
38	204223	Boot	1
39	190383	Boot	11
40	190382	Boot	3

WIRE HARNESS (FIGURE 4-18)

DIESEL ENGINE (S/N G006V02876C →)

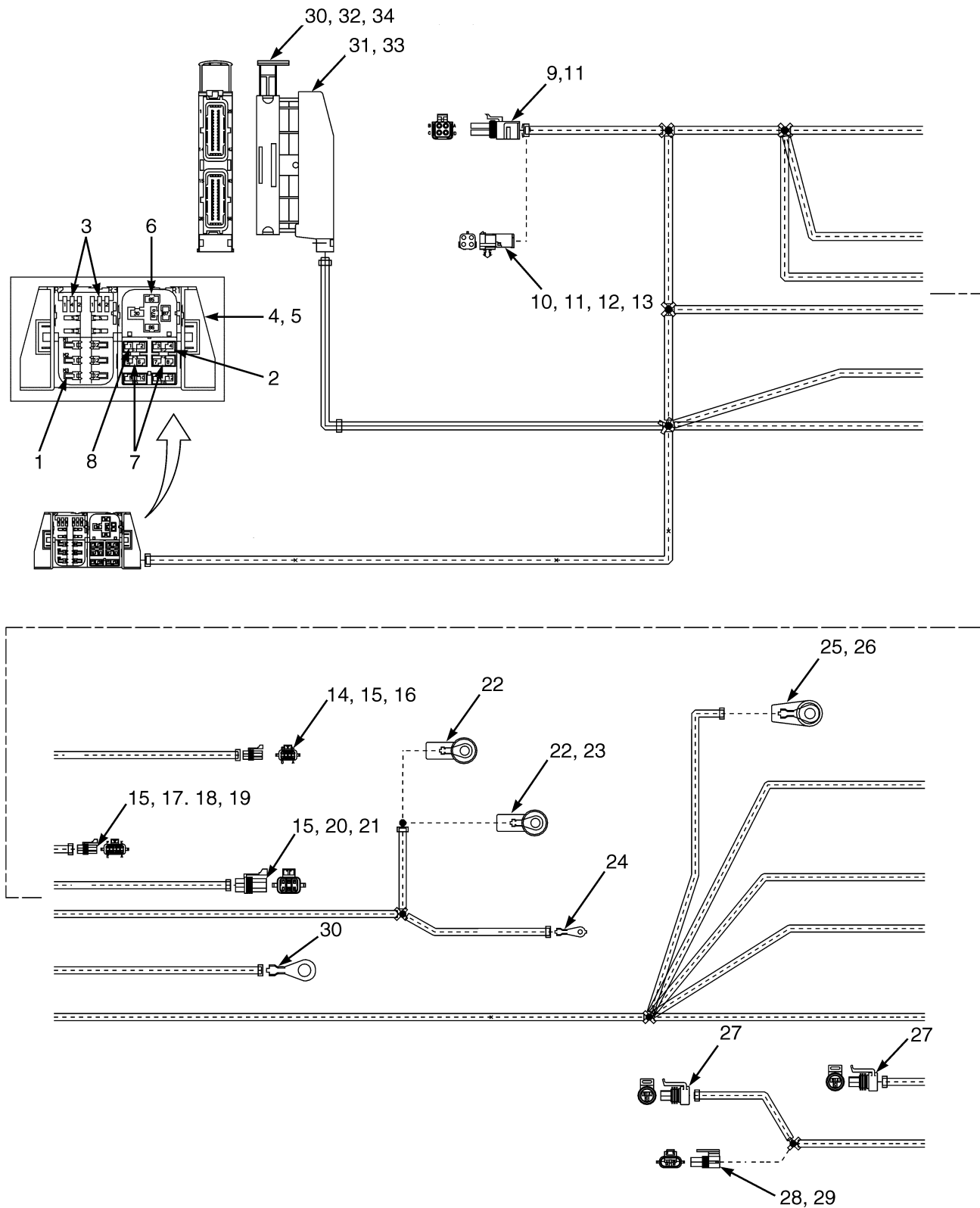


HP081420

WIRE HARNESS **DIESEL ENGINE (S/N G006V02876C →)**

ITEM	PART NO.	DESCRIPTION	QTY
	2071566	Wire Harness	1
1	1330354	Connector (Lift Pump Oil Pressure)	1
2	1330355	Terminal	2
3	1330357	Terminal	1
4	1330356	Seal	2
5	1493448	E-Ring	2
6	190382	Boot	2
7	367540	Terminal (Female)	1
8	1301720	Connector Body (Water Temperature Sender)	1
9	370730	Terminal	1
10	181046	Connector Body (Oil Pressure Sender)	1
11	134812	Terminal	9
12	1375782	Connector Body (Glow Plug)	1
13	1375783	Terminal (Socket)	1
14	129894	E-Ring	1
15	129888	E-Ring	1
16	1323586	Connector	1
17	1323576	Terminal	1
18	1354497	E-Ring	2
19	181054	Connector Body (Main Harness)	1
20	148610	E-Ring	2
21	190383	Boot	12
22	181047	Connector Body	1
23	129887	E-Ring	1
24	148605	Ring Terminal	1
25	129888	E-Ring	7
26	1521309	Connector Body	6
27	148610	E-Ring	1
28	806424	E-Ring	1
29	1537654	Radiator Hose	1
30	1454860	Connector Body	2
31	1454828	Terminal	2
32	1454827	Seal	2
33	1454862	Cover (With Seal)	2
34	1454829	Fuse (60 Amp)	2
35	1330292	Connector (Lift Pump Fuse)	1
36	1330283	Terminal	1
37	1330293	Cover (Fuse)	1
38	370647	Fuse (10 Amp)	1

WIRE HARNESS (FIGURE 4-19) ENGINE, LPG, GM 4.3L — SHEET 1 OF 2

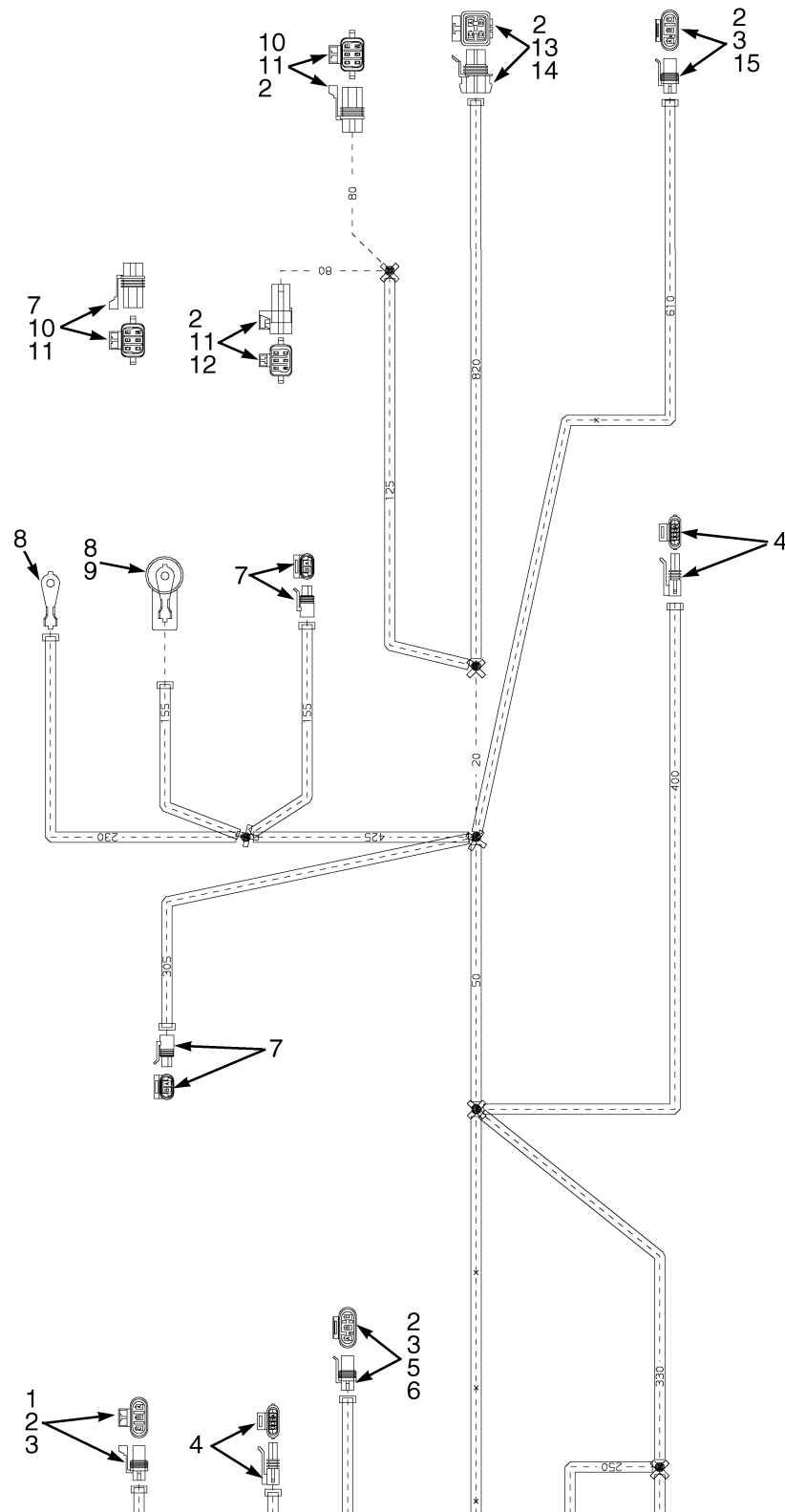


BP080284

WIRE HARNESS
ENGINE, LPG, GM 4.3L – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	2068082	Wire Harness (Main Engine)	1
1	1378418	Fuse (50 Amp)	1
2	1498044	Fuse (5 Amp)	1
3	1567317	Relay (Power and Fuel Pump)	2
4	1567320	Cover (Fuse Box Bottom)	1
4	1567835	Cover (Bottom-Fuse Box) (Alternate Part)	1
5	1567319	Cover (Fuse Box Top)	1
5	1567836	Cover (Top-Fuse Block) (Alternate Part)	1
6	1567316	Relay (Starter)	1
7	1498047	Fuse (15 Amp)	2
8	1528132	Fuse (20 Amp)	1
9	1378652	Connector	1
10	1547482	Connector	1
11	1323579	Seal	5
12	1327164	Seal	3
13	1567333	Clip	1
14	1547484	Connector	1
15	1330356	Seal	20
16	1567312	Spacer	1
17	1376617	Plug	1
18	1482668	Plug	4
19	1402907	Lock	1
20	1531486	Connector	1
21	930591	Connector	1
22	1567702	Ring Terminal	2
23	1567695	Boot	1
24	1567698	Ring Terminal	1
25	1567696	Ring Terminal	1
26	1493442	Boot	1
27	1327957	Connector	2
28	1567310	Connector	1
29	1567311	Lock	1
30	1567701	Ring Terminal	1
31	1547479	Housing	1
32	1561147	Plug	1
33	1561148	Cam	1
34	1587016	Strap Clamp	1
35	1561145	Cover	1

WIRE HARNESS (FIGURE 4-20) ENGINE, LPG, GM 4.3L — SHEET 2 OF 2

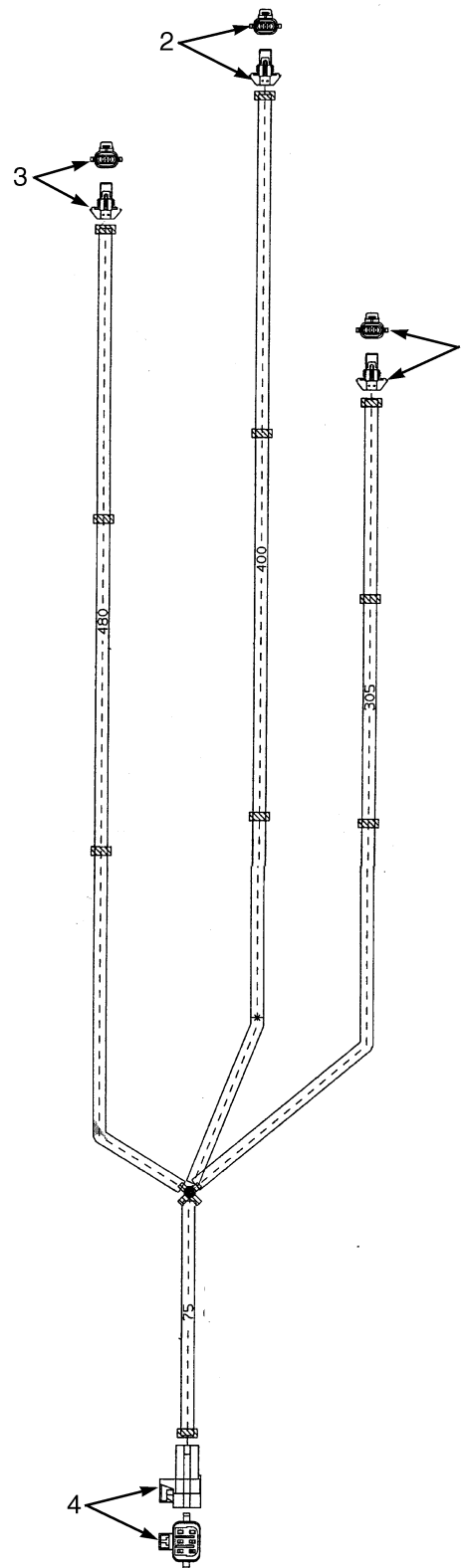


BP080287

WIRE HARNESS
ENGINE, LPG, GM 4.3L – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	2068082	Wire Harness (Main Engine)	1
1	1476067	Connector	1
2	1330356	Seal	11
3	1476109	Connector Lock	2
4	1547483	Connector	2
5	1476071	Connector	1
6	1482668	Plug	7
7	1323586	Connector	2
8	1567694	Ring Terminal	2
9	1567695	Boot	1
10	1531486	Connector	2
11	930591	Connector	2
12	1541609	Connector	1
13	1547485	Connector	1
14	1487441	Housing	1
15	1476064	Connector	1

WIRE HARNESS (FIGURE 4-21) LPG REGULATOR — GM 4.3L



BP080286

**WIRE HARNESS
LPG REGULATOR – GM 4.3L**

ITEM	PART NO.	DESCRIPTION	QTY
	2067390	Wire Harness (LPG Regulator)	1
1	1539872	Connector	1
1	1330356	Seal	2
1	1345690	Terminal (E FTG SEC LOCK)	1
2	1539871	Connector	1
2	1330356	Seal	2
2	1345690	Terminal (E FTG SEC LOCK)	1
3	1345689	Connector Body	1
3	1330356	Seal	2
3	1345690	Terminal (E FTG SEC LOCK)	1
4	1541609	Connector	1
4	1330356	Seal	5
4	930590	Plug	1
4	930591	Connector	1

BP0880286

WIRE HARNESS
ENGINE, GASOLINE GM 4.3L – SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	2066453	Wire Harness (Main Engine)	1
1	1531486	Connector	2
2	1330356	Seal	11
3	930591	Connector	3
4	1547485	Connector	1
5	1487441	Housing	1
6	1476064	Connector	1
7	1476109	Connector Lock	3
8	1482668	Plug	7
9	1541609	Connector	1
10	1567469	Plug	1
11	1567470	Wire Seal	2
12	1567694	Ring Terminal	2
13	1567695	Boot	1
14	1323586	Connector	2
15	1476067	Connector	1
16	1547483	Connector	1
17	1476071	Connector	1

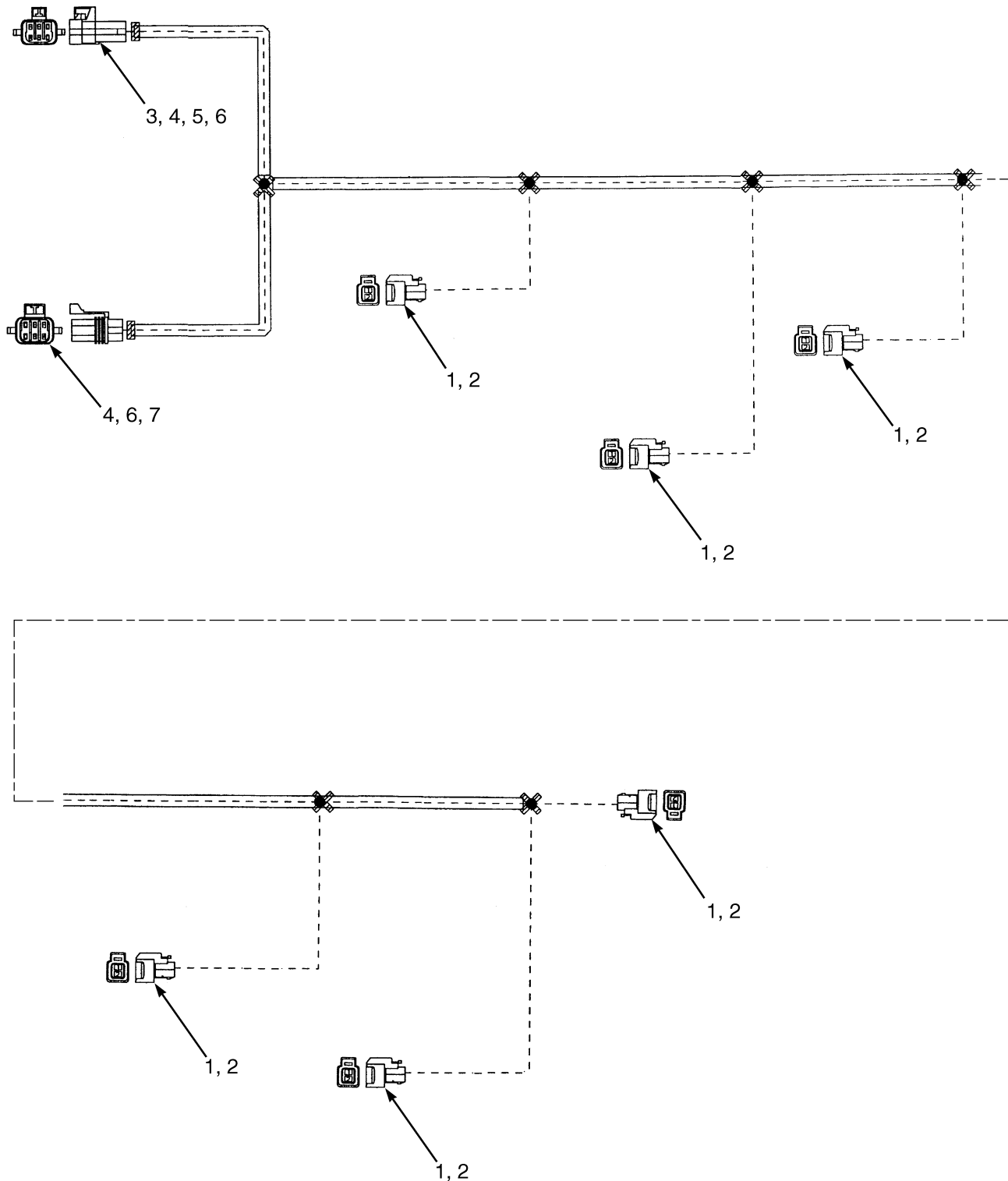
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WIRE HARNESS

ENGINE, GASOLINE GM 4.3L – SHEET 2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	2066453	Wire Harness (Main Engine)	1
1	1567696	Ring Terminal	1
2	1493442	Boot	1
3	1327957	Connector	2
4	1567310	Connector	1
5	1567311	Lock	1
6	1567702	Ring Terminal	2
7	1567695	Boot	2
8	1567698	Ring Terminal	1
9	1567701	Ring Terminal	1
10	1531486	Connector	1
11	1330356	Seal	31
12	930591	Connector	1
13	1376617	Plug	1
14	1482668	Plug	5
15	1402907	Lock	1
16	1547484	Connector	1
17	1567312	Spacer	1
18	1378652	Connector	1
19	1323579	Seal	1
20	1547482	Connector	1
21	1327164	Seal	1
22	1567333	Clip	1
23	1587016	Strap Clamp	1
24	1561145	Cover	1
25	1547479	Housing	1
26	1561147	Plug	1
27	1561148	Cam	1
28	1378418	Fuse (50 Amp)	1
29	1498044	Fuse (5 Amp)	1
30	1567317	Relay (Power and Fuel Pump)	2
31	1567320	Cover (Fuse Box Bottom)	1
31	1567835	Cover (Bottom-Fuse Box) (Alternate Part)	1
32	1567319	Cover (Fuse Box Top)	1
32	1567836	Cover (Top-Fuse Block) (Alternate Part)	1
33	1567316	Relay (Starter)	1
34	1498047	Fuse (15 Amp)	2
35	1528132	Fuse (20 Amp)	1

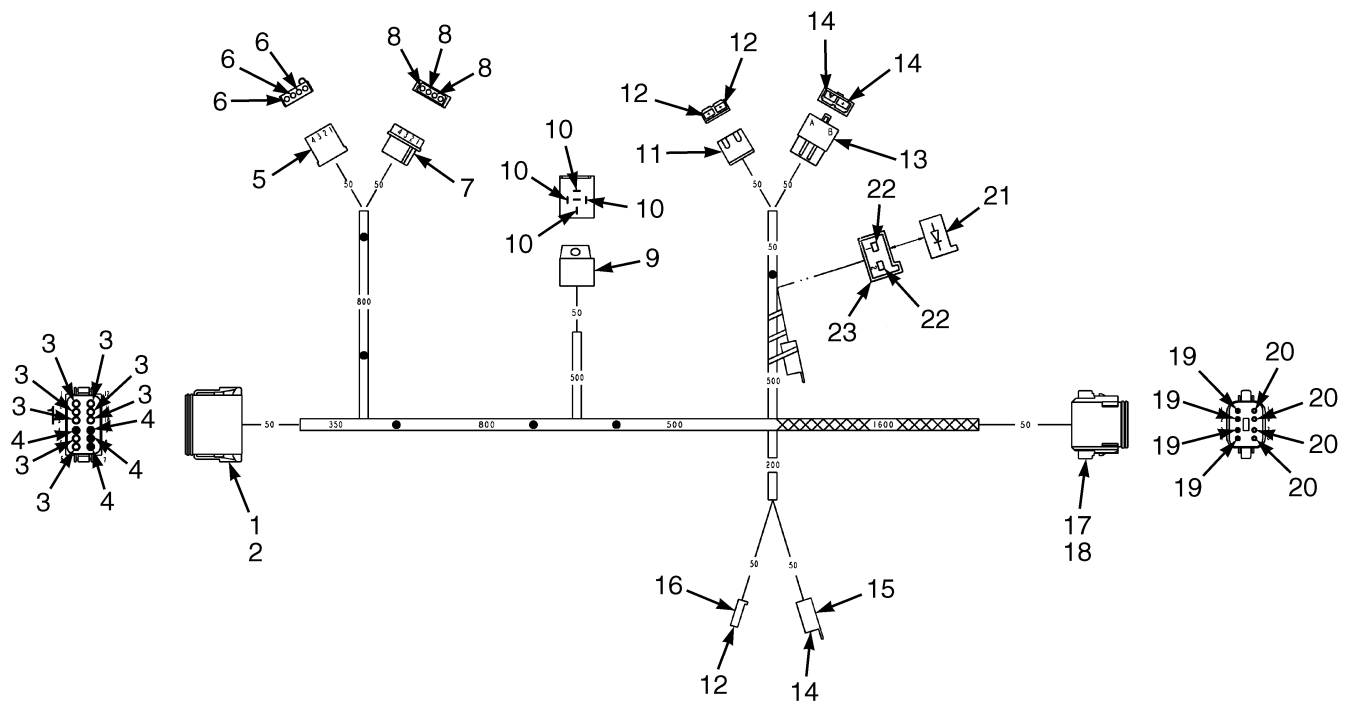
WIRE HARNESS (FIGURE 4-24) FUEL INJECTOR — GASOLINE, GM 4.3L



BP080285

ITEM	PART NO.	DESCRIPTION	QTY
	2066454	Wire Harness (Injector)	1
1	1567462	Plug	6
2	1567464	Wire Seal	12
3	1541609	Connector	1
4	1330356	Seal	7
5	1482668	Plug	5
6	930591	Connector	2
7	1531486	Connector	1

WIRE HARNESS (FIGURE 4-25) OPERATOR PRESENCE SYSTEM (S/N G006V03428C →)



BP080348

WIRE HARNESS
OPERATOR PRESENCE SYSTEM (S/N G006V03428C →)

ITEM	PART NO.	DESCRIPTION	QTY
	2078468	Wire Harness	1
1	1525564	Connector	1
2	1500913	Connector	1
3	1330438	Terminal (Socket)	8
4	1330439	Plug	4
5	367960	Socket	1
6	367968	Socket	3
7	367953	Connector Body	1
8	367966	Pin	3
9	1347224	Socket	1
10	1331233	Terminal	1
11	346330	Connector Body	1
12	370730	Terminal	3
13	1601839	Connector	1
14	134810	Terminal	3
15	181045	Connector Body	1
16	181046	Connector Body	1
17	1541991	Connector	1
18	1541992	Connector	1
19	1484377	Plug	4
20	1463139	Terminal	4
21	1538960	Diode	1
22	2054463	Female Terminal	2
23	1529057	Connector (2-Way)	1

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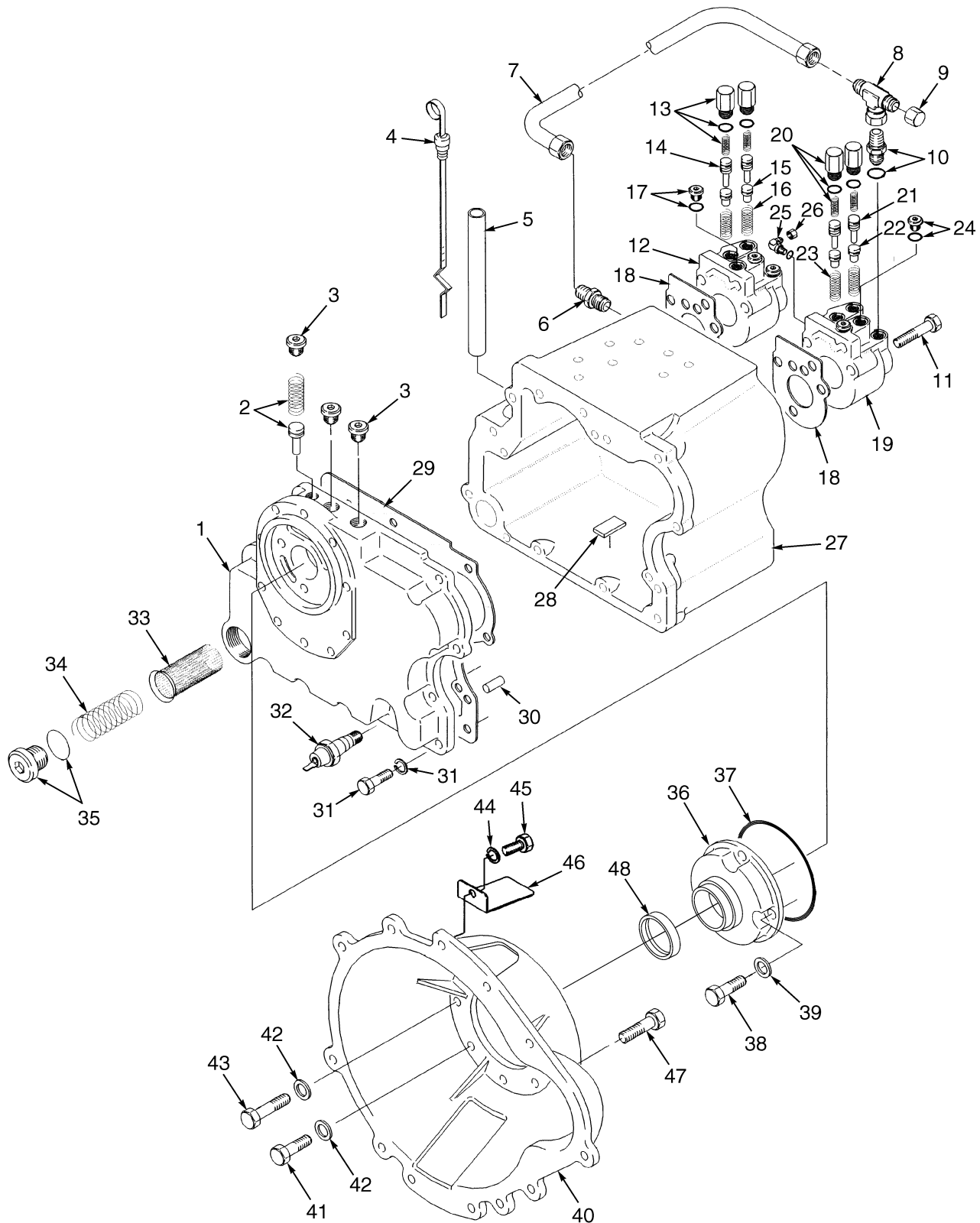
5

TRANSMISSION

SECTION 5 TRANSMISSION

DESCRIPTION	PAGE
AXLE HOUSING AND ATTACHING PARTS	5-35
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POWERSHIFT	5-6
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POWERSHIFT	5-12

TRANSMISSION (FIGURE 5-1) POWERSHIFT



YP240130

**TRANSMISSION
POWERSHIFT****KEY:****A: T96****B: T127**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a 1386976	Transmission Assy (Two Speed Monotrol Pedal)	1	..
	c 1568833	Transmission Assy (Two Speed)	..	1
	a 1386977	Transmission Assy (Two Speed)	1	..
	b 1568855	Transmission Assy	..	1
1	1313764	Cover	1	1
2	334524	Spool	1	..
2	1313774	Spring (Relief Valve)	1	1
3	235691	Fitting	3	3
4	346682	Dipstick	1	1
5	346683	Dipstick Tube	1	1
6	17315	Fitting	1	1
7	374019	Tube Assy	1	1
8	17050	Fitting	1	1
9	16925	Nut	1	1
10	131460	Fitting	1	1
10	16483	O-Ring	1	1
11	346691	Capscrew	6	6
12	346690	Manifold Assy	1	1
12	346684	Manifold	1	1
13	374039	Fitting	2	2
13	16484	O-Ring	2	2
13	346789	Spring	2	2
14	346801	Spool (Priority)	2	2
15	346800	Spool (Lube)	2	2
16	346688	Spring (Priority)	2	2
17	134436	Fitting	5	5
17	16482	O-Ring	1	1
18	346686	Gasket	2	2
19	346819	Manifold Assy (Forward)	1	1
19	346818	Manifold	1	1
20	374039	Fitting	2	2
20	16484	O-Ring	2	2
20	346789	Spring	2	2
21	346801	Spool (Priority)	2	2
22	346800	Spool (Lube)	2	2
23	346688	Spring (Priority)	2	2
24	134436	Fitting	3	3
24	16482	O-Ring	1	1
25	222399	Fitting	1	1
26	16923	Nut	1	1
27	346625	Housing (Transmission)	1	1
28	334560	Magnet	1	1
28	264159	Adhesive (Not Illustrated)	AR	AR
29	346660	Gasket	1	1
30	186420	Dowel	2	2

TRANSMISSION POWERSHIFT

KEY:

A: T96

B: T127

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
31	287860	Capscrew	7	7
31	292682	Lockwasher	16	16
32	1322627	Switch (Oil Temperature Warning)	1	1
33	346680	Screen	1	1
34	346681	Spring	1	1
35	188210	Fitting	1	1
35	16983	O-Ring	1	1
36	1320018	Charge Pump	1	1
36	1322333	Bushing	1	1
37	373950	O-Ring	1	1
38	292517	Capscrew	4	4
39	380524	Washer	4	4
40	344448	Converter Housing (Converter)	1	1
41	287860	Capscrew	7	7
42	292682	Lockwasher	16	16
43	292524	Capscrew	5	5
44	292681	Lockwasher	2	2
45	287851	Capscrew	2	2
46	340268	Plate	1	1
47	1359458	Capscrew	4	4
48	1498807	Seal (Double Lip)	1	1
	996476	Kit-Transmission Repair	1	1

FOOTNOTES:

a → S/N G006V02233B

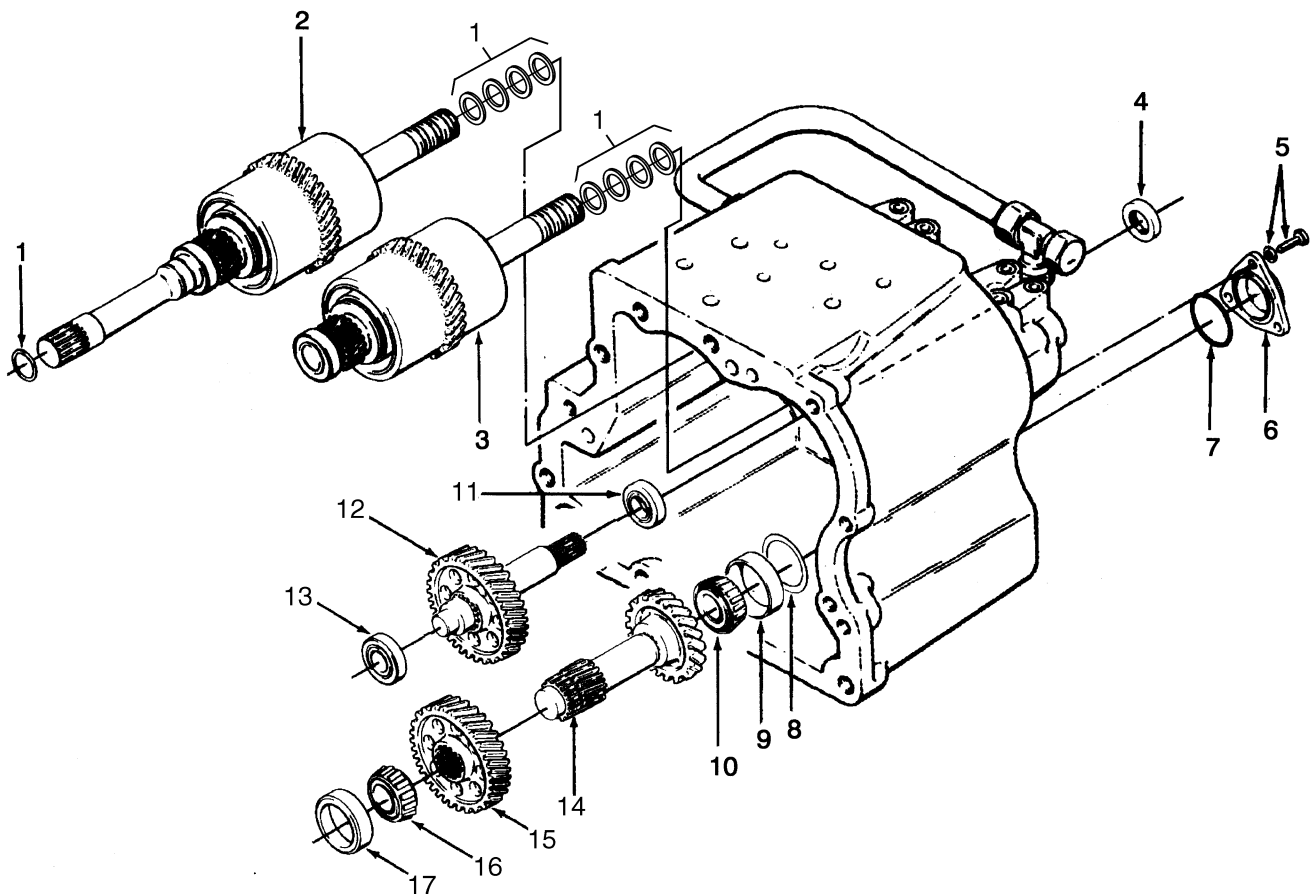
c S/N G006V02234B →

b S/N G006V02234B ↔ S/N G006V03427C

NOTES

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TRANSMISSION GEARS (FIGURE 5-2) POWERSHIFT



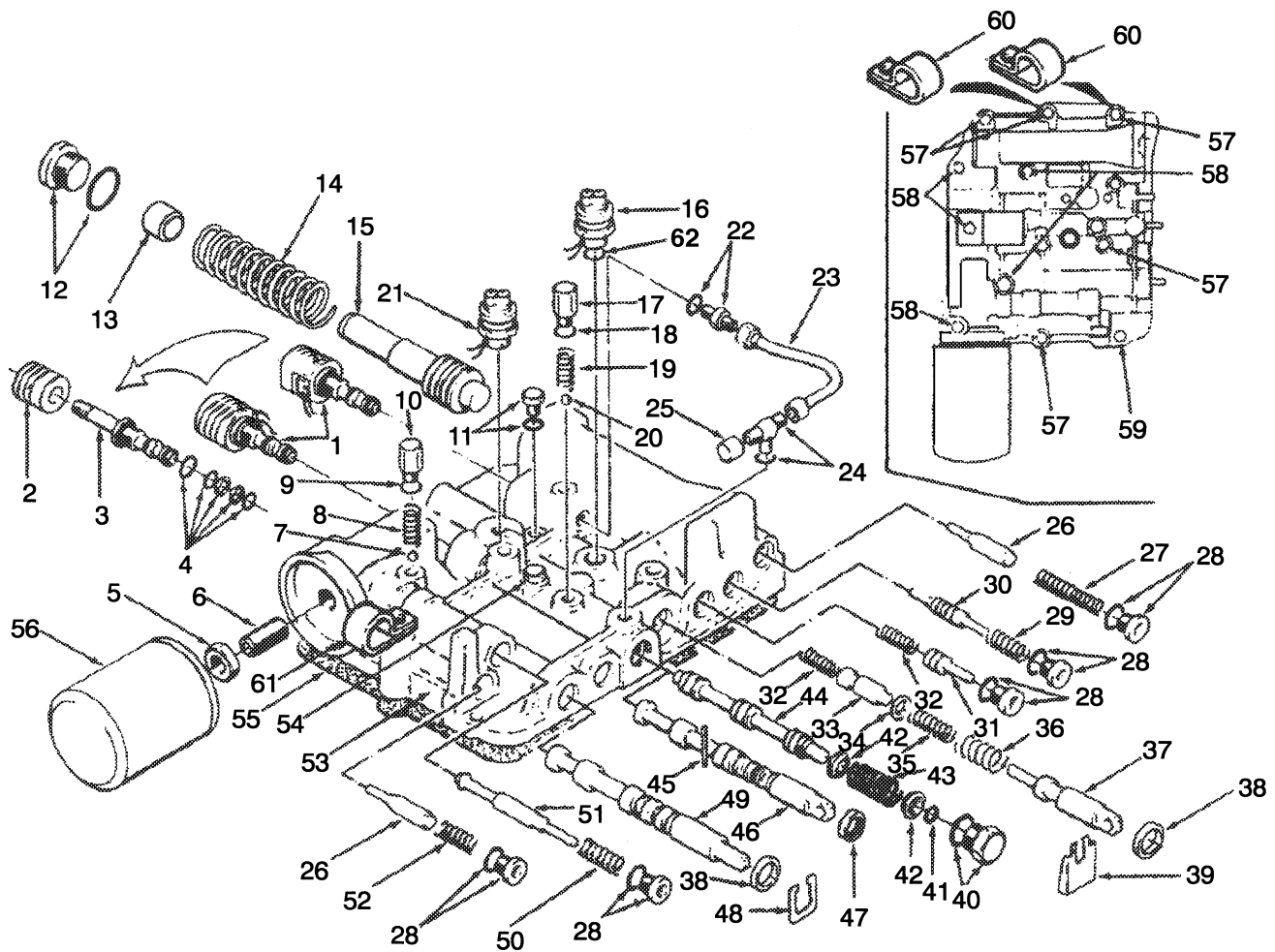
BP000029

**TRANSMISSION GEARS
POWERSHIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	a 1386976	Transmission Assy (Two Speed, Monotrol Pedal)	1
	c 1568833	Transmission Assy (Two Speed)	1
	a 1386977	Transmission Assy (Two Speed)	1
	b 1568855	Transmission Assy	1
1	a 346677	Ring	9
1	c	Seal Ring (☞ Figure 5-9).....	9
2	a 1386979	Clutch Pack (☞ Figure 5-6).....	1
2	c 1534503	Clutch Pack (Input, Reverse, Long Shaft) (☞ Figure 5-7).....	1
3	a 1386980	Clutch Pack (Counter, Forward, Short Shaft) (☞ Figure 5-8).....	1
3	c 1534504	Clutch Pack (☞ Figure 5-9).....	1
4	79389	Seal (Output Shaft)	1
5	302335	Capscrew	3
5	320159	Washer	3
6	289642	Cover	1
7	39675	O-Ring	1
8	289760	Shim (0.020 in.)	AR
8	289761	Shim (0.007 in.)	AR
8	289762	Shim (0.015 in.)	AR
9	156194	Bearing Cup	1
10	156195	Bearing Cone	1
11	41210	Bearing	1
12	1386997	Shaft (Output)	1
13	43309	Ball Bearing	1
14	1386995	Shaft (Counterbalance)	1
15	1386993	Gear (Low)	1
16	30085	Bearing Cone	1
17	30077	Bearing Cup	1

FOOTNOTES:**a** → S/N G006V02233B**c** S/N G006V02234B →**b** S/N G006V02234B ↔ S/N G006V03427C

TRANSMISSION CONTROL VALVE (FIGURE 5-3) POWERSHIFT



BP240025

**TRANSMISSION CONTROL VALVE
POWERSHIFT****KEY:****A: Monotrol Pedal****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1322633	Valve	1	..
	1322634	Valve	..	1
1	1390609	Solenoid Valve	2	..
2	1452597	Coil	1	..
3	1673634	Actuator	1	..
4	1393164	Nut	1	..
4	1393160	Kit-Seal	1	..
5	15032	Nut	1	1
6	181766	Fitting	1	1
7	55280	Ball	1	1
8	346652	Spring	1	1
9	16483	O-Ring	1	1
10	346651	Plug	1	1
11	14591	Plug	1	..
11	16481	O-Ring	1	..
12	200659	Fitting	1	1
12	16982	O-Ring	1	1
13	346848	Spacer	1	1
14	346636	Spring (Outer)	1	1
15	346788	Spool	1	1
16	1563995	Switch (Neutral Start)	..	1
17	334515	Plug	..	1
18	16482	O-Ring	..	1
19	334513	Spring	..	1
20	55280	Ball	..	1
21	1563995	Switch (Neutral Start)	1	..
22	16538	Connector	1	..
22	16481	O-Ring	1	..
23	346654	Tube Assy	1	..
24	16574	Fitting	1	..
24	16481	O-Ring	1	..
25	16923	Nut	1	..
26	334524	Spool	2	2
27	1313774	Spring	1	1
28	235691	Fitting	5	5
28	16484	O-Ring	1	1
29	346805	Spring	1	1
30	346634	Spool (Trimmer)	1	1
31	334542	Spool (Dump)	1	1
32	334543	Spring	2	2
33	346813	Spool	1	1
34	296418	Washer	1	1
35	346643	Spring (Inching)	1	1
36	334531	Spring	1	1
37	346734	Plunger (Inching)	1	1

TRANSMISSION CONTROL VALVE POWERSHIFT

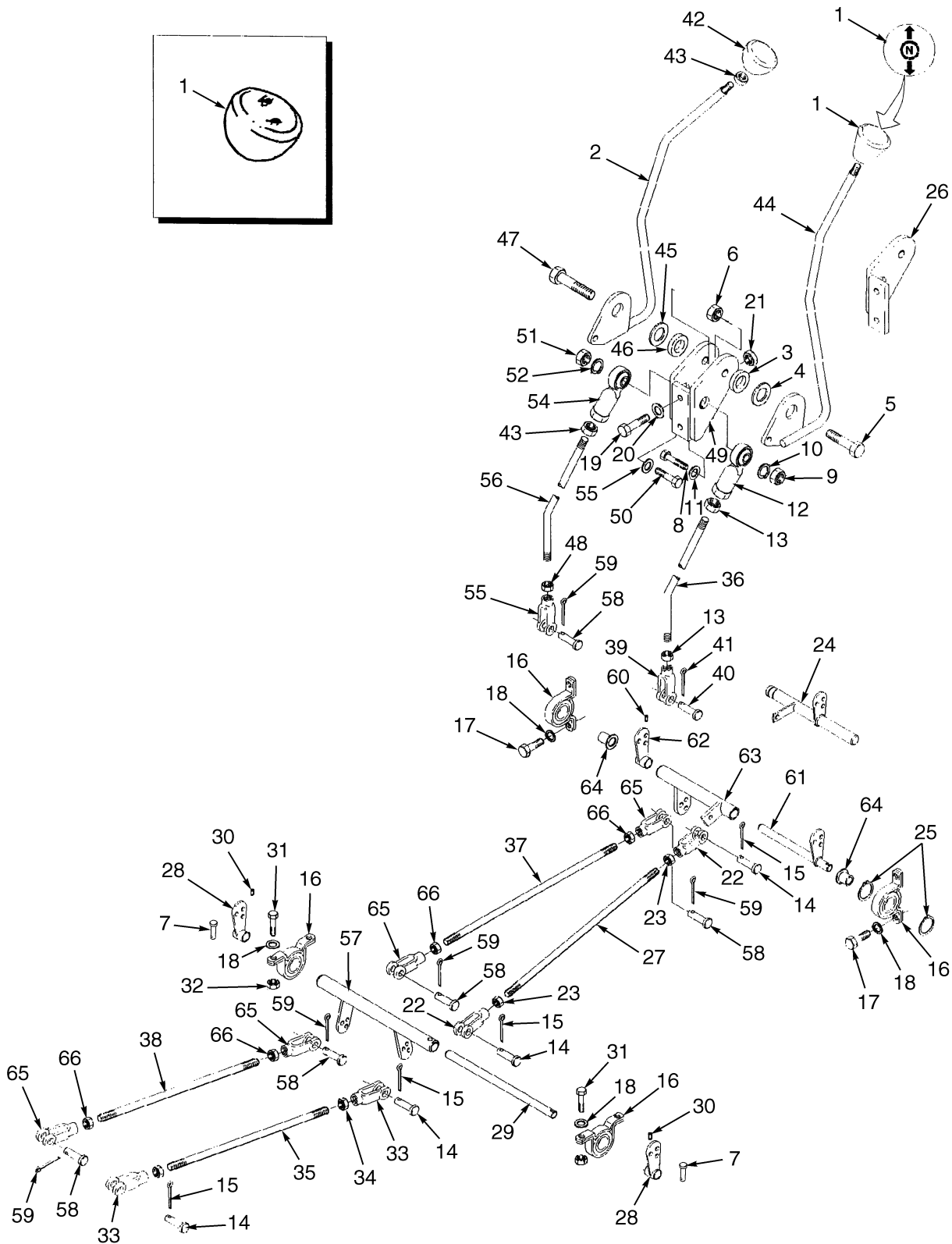
KEY:
A: Monotrol Pedal
B: Forward/Reverse Lever

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
38	334500	Seal	2	2
39	346647	Stop (Inching)	1	1
40	346653	Plug (Forward/Reverse Lever)	1	..
40	16486	O-Ring	1	..
41	346650	Snap Ring	1	..
42	346648	Cap (Spring)	2	..
43	346645	Spring (Center)	1	..
44	346644	Spool (Forward/Reverse Lever)	1	..
45	221989	Roll Pin	..	1
46	1337816	Spool	..	1
47	334500	Seal	..	1
48	346649	Stop (High and Low)	1	1
49	346646	Spool (High and Low)	1	1
50	346770	Spring (Clutch Pack)	1	1
51	346768	Spool (Clutch Pack)	1	1
52	346640	Spring	1	1
53	1313762	Body	1	..
53	1313763	Body	..	1
54	14591	Plug	1	1
54	16481	O-Ring	1	1
55	1329630	Gasket	1	1
56	1328691	Transmission Filter	1	1
57	136704	Capscrew	6	6
57	320157	Washer	6	6
58	346656	Capscrew	3	3
58	320157	Washer	3	3
59	292508	Capscrew	3	3
59	320157	Washer	3	3
60	325897	Clamp	2	2
61	186480	Clamp	1	..
62	1563996	Washer	..	1

NOTES

[illegible]

TRANSMISSION CONTROL LINKAGE (FIGURE 5-4) POWERSHIFT



YP240131

**TRANSMISSION CONTROL LINKAGE
POWERSHIFT****KEY:****A: High and Low****B: Forward/Reverse Lever**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	284077	Knob	1	1
2	1318417	Lever (High/Low)	1	1
3	1303158	Bushing	1	1
4	1300139	Washer	1	1
5	292515	Capscrew	1	1
6	316826	Nut	1	1
7	133683	Pin	2	2
8	16316	Capscrew	1	1
9	15056	Nut	1	1
10	15156	Lockwasher	1	1
11	15134	Washer	1	1
12	161652	Rod End	1	1
13	15026	Nut	2	2
14	139	Pin	4	4
15	15211	Cotter Pin	4	4
16	313859	Bearing	4	4
17	287817	Capscrew	4	4
18	292680	Washer	8	8
19	176640	Bolt	2	2
20	292681	Lockwasher	2	2
21	239503	Nut	2	2
22	138	Rod End	2	2
23	15025	Nut	2	2
24	1310988	Crank	1	1
25	58951	Snap Ring	2	2
26	1303154	Bracket	1	..
27	43370	Link	1	1
28	357235	Crank	2	2
29	1310985	Shaft	1	1
30	71153	Roll Pin	2	2
31	292501	Capscrew	4	4
32	136687	Nut	4	4
33	138	Rod End	2	2
34	15025	Nut	2	2
35	311540	Link	1	1
36	1310996	Rod	1	1
37	a 43370	Link	..	1
38	311540	Link	..	1
39	141	Rod End	1	1
40	142	Pin	1	1
41	15211	Cotter Pin	1	1
42	a 154878	Knob	..	1
43	a 15026	Nut	..	3
44	a 1312735	Lever (Forward and Reverse)	..	1
45	a 1300139	Washer	..	1

TRANSMISSION CONTROL LINKAGE POWERSHIFT

KEY:

A: High and Low

B: Forward/Reverse Lever

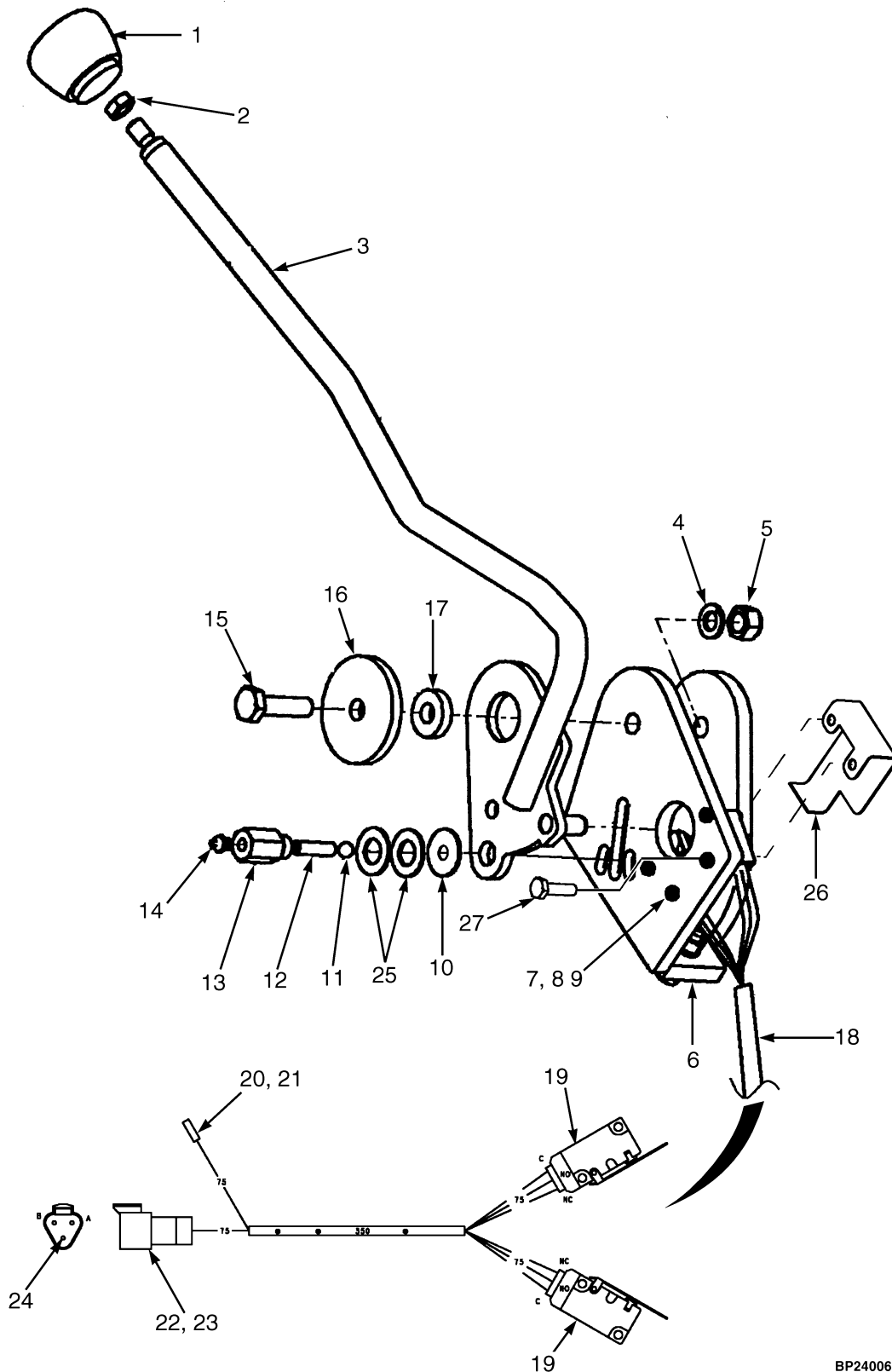
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
46	a 1303158	Bushing	..	1
47	a 292515	Capscrew	..	1
48	a 316826	Nut	..	1
49	a 1303150	Bracket Wldmt	..	1
50	a 16316	Capscrew	..	1
51	a 15056	Nut	..	1
52	a 15156	Lockwasher	..	1
53	a 15134	Washer	..	1
54	a 161652	Rod End	..	1
55	a 228122	Rod End	..	1
56	a 1310996	Rod	..	1
57	a 357249	Crank	..	1
58	a 139	Pin	..	5
59	a 15211	Cotter Pin	..	5
60	a 71153	Roll Pin	..	1
61	a 1310975	Crank	..	1
62	a 357235	Crank	..	1
63	a 1310978	Crank	..	1
64	a 368231	Bushing	..	4
65	a 138	Rod End	..	4
66	a 15025	Nut	..	4

FOOTNOTES:

a → S/N G006V03427C (Forward/Reverse Lever)

[illegible]

TRANSMISSION CONTROL LINKAGE (FIGURE 5-5) FORWARD AND REVERSE LEVER (S/N G006V03428C →)



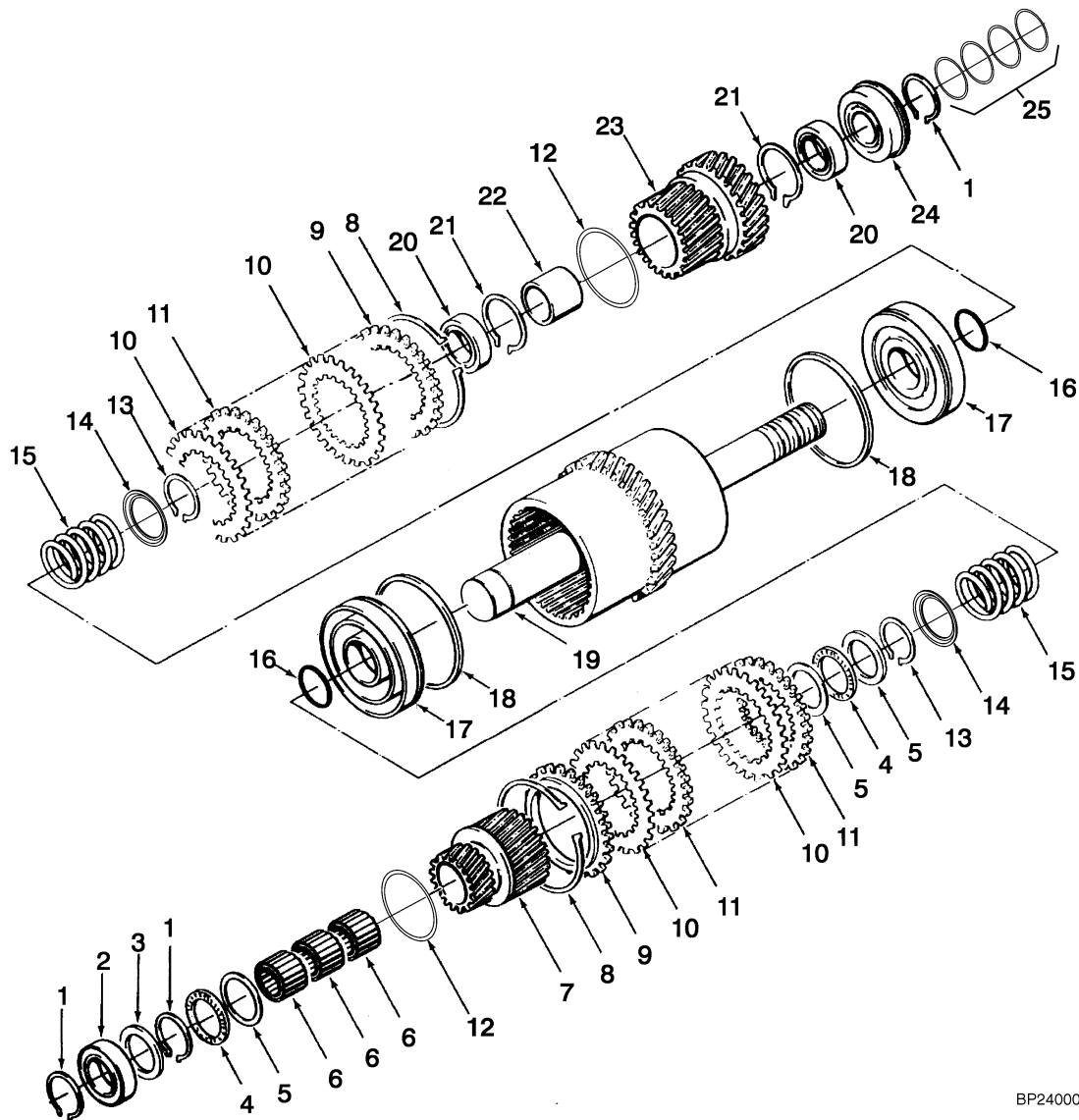
BP240066

TRANSMISSION CONTROL LINKAGE
FORWARD AND REVERSE LEVER (S/N G006V03428C →)

ITEM	PART NO.	DESCRIPTION	QTY
1	154878	Knob	1
2	15026	Nut	1
3	1605823	Lever	1
4	292682	Lockwasher	1
5	316826	Nut	1
6	1605824	Bracket Wldmt	1
7	220432	Screw	4
8	53162	Lockwasher	8
9	16865	Nut	4
10	1516800	Shim (0.060 in.)	1
11	55280	Ball	1
12	334513	Spring	1
13	1611641	Plug	1
14	16041	Grease Fitting	1
15	287860	Capscrew	1
16	1300139	Washer	1
17	1303158	Bushing	1
18	2079499	Wire Harness (Forward/Reverse Switch)	1
19	1529005	Switch (Sealed)	2
20	1324309	Sleeve	1
21	1324310	Terminal	1
22	1330410	Connector	1
23	1330415	Connector	1
24	1330433	Terminal	3
25	1309479	Shim (0.020 in.)	2
26	1617484	Shield	1
27	1534417	Capscrew	2

CLUTCH PACK (FIGURE 5-6)

POWERSHIFT — COUNTER, FORWARD, SHORT SHAFT (→ S/N G006V02233B)



BP240002

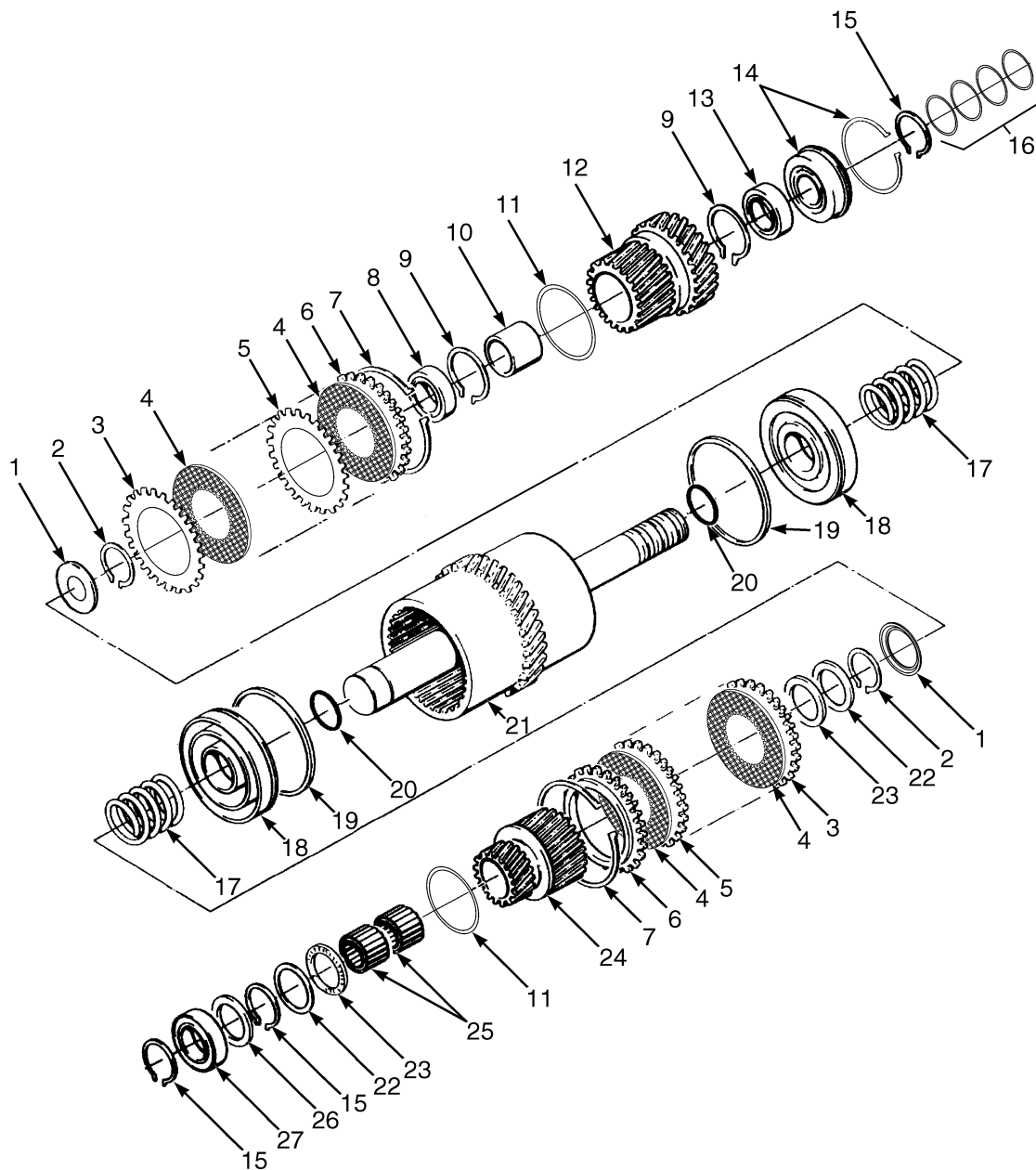
CLUTCH PACK

POWERSHIFT – COUNTER, FORWARD, SHORT SHAFT (→ S/N G006V02233B)

ITEM	PART NO.	DESCRIPTION	QTY
	1386976	Transmission Assy (Monotrol)	1
	1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
	1386980	Clutch Pack (Counter, Forward, Short Shaft)	1
1	346675	Snap Ring	3
2	41208	Bearing	1
3	1396053	Thrust Washer	1
4	346731	Needle Bearing	2
5	346696	Thrust Washer	3
6	346730	Needle Bearing	3
7	1386989	Gear (Low Output)	1
8	334475	Snap Ring	2
9	1394881	Pressure Plate (0.248-0.252 in.)	2
10	1469301	Friction Disk (Friction)	18
11	1387235	Separator Plate (Separator)	18
12	1386958	O-Ring	2
13	1394912	Snap Ring	2
14	1394893	Guide	2
15	1394882	Spring	2
16	1394879	O-Ring	2
17	1394885	Piston	2
18	334402	Seal	2
19	1386983	Shaft (Directional)	1
20	124606	Ball Bearing	2
21	12894	Snap Ring	2
22	1386916	Spacer	1
23	1386991	Gear (High Output)	1
24	124682	Ball Bearing	1
25	346677	Ring	4

CLUTCH PACK (FIGURE 5-7)

POWERSHIFT — COUNTER, FORWARD, SHORT SHAFT (S/N G006V02234B →)



BP240054

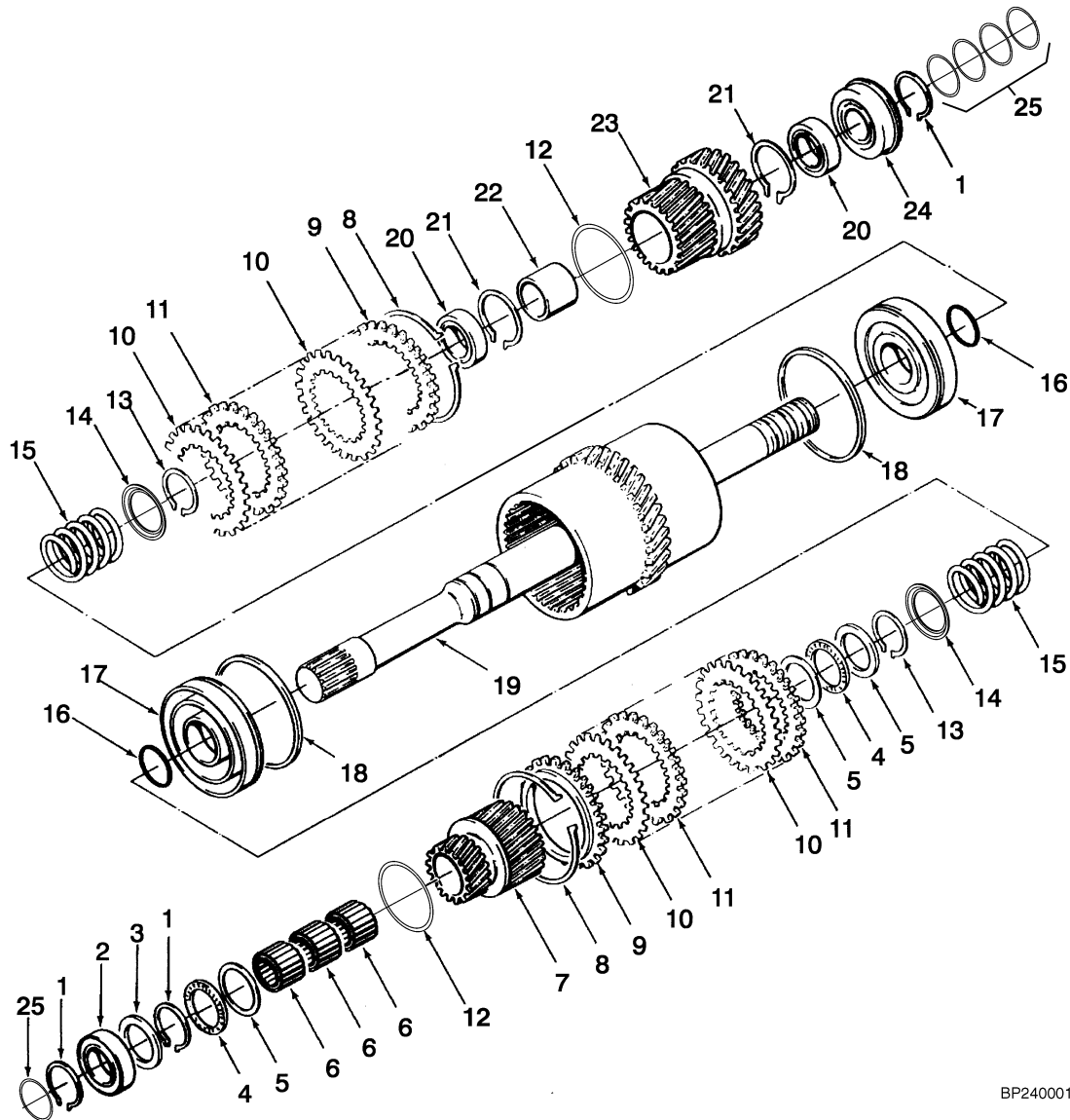
CLUTCH PACK

POWERSHIFT – COUNTER, FORWARD, SHORT SHAFT (S/N G006V02234B →)

ITEM	PART NO.	DESCRIPTION	QTY
	b 1568833	Transmission Assy (Two Speed)	1
	a 1568855	Transmission Assy	1
	1534504	Clutch Pack	1
1	1568908	Washer (Special)	2
2	1568909	Snap Ring	2
3		Plate (Conical)	2
4		Plate (Friction)	18
5		Plate (Separator)	16
6	1537449	Pressure Plate (6.0 mm) (Standard)	2
6	1543094	Pressure Plate (5.8 mm) (Optional)	AR
6	1543096	Pressure Plate (5.6 mm) (Optional)	AR
6	1543097	Pressure Plate (5.4 mm) (Optional)	AR
6	1543098	Pressure Plate (5.2 mm) (Optional)	AR
7	1537450	Snap Ring	2
8	1582266	Ball Bearing	1
9	1552537	Snap Ring	2
10	1568913	Spacer	1
11		Seal (D Ring)	2
12	1568910	Gear	1
13	1582267	Ball Bearing	1
14	1568911	Ball Bearing	1
14		Snap Ring	1
15	1552521	Snap Ring	3
16		Seal Ring	4
17	1568907	Spring	2
18	1568905	Piston	2
19		Seal Ring	2
20		Seal Ring	2
21		Shaft (Counter, Short Shaft)	1
22		Washer (Thrust)	2
23		Thrust Bearing (Needle)	2
24	1568914	Gear	1
25	1568912	Needle Bearing	2
26	1552523	Washer (Stepped)	1
27	1552517	Ball Bearing	1
	1582269	Kit-Clutch Pack Plates (Disk)	1
	1582270	Kit-Clutch Pack Seals (Seal)	1
	1582271	Kit-Clutch Pack Plates/Seals	1
	1582272	Kit-Clutch Pack (Thrust Needle Bearings)	1

FOOTNOTES:**a** → S/N G006V03427C**b** S/N G006V03428C →

CLUTCH PACK (FIGURE 5-8) POWERSHIFT — INPUT, REVERSE, LONG SHAFT (→ S/N G006V02233B)



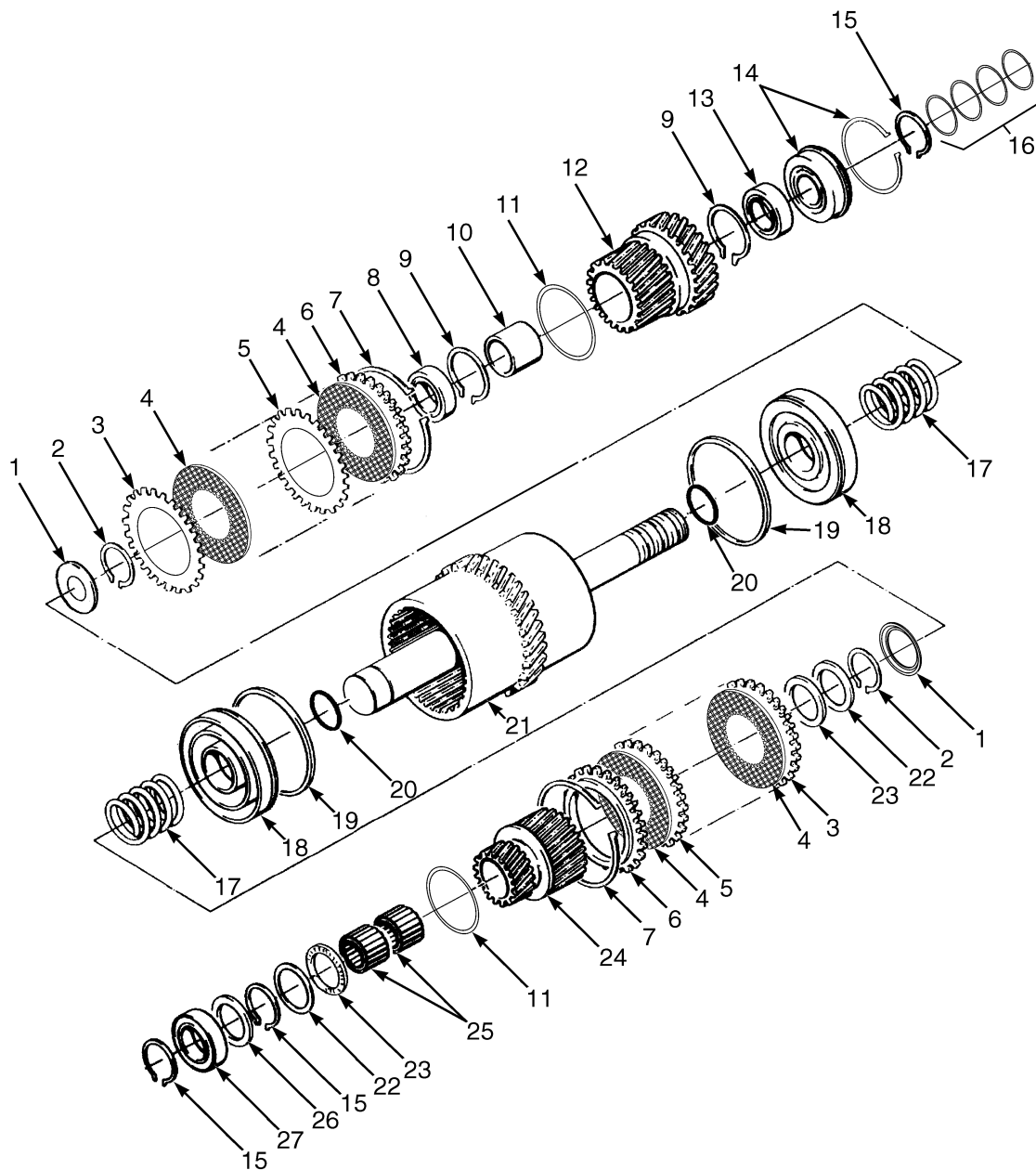
BP240001

CLUTCH PACK

POWERSHIFT – INPUT, REVERSE, LONG SHAFT (→ S/N G006V02233B)

ITEM	PART NO.	DESCRIPTION	QTY
	1386976	Transmission Assy (Monotrol)	1
	1386977	Transmission Assy (Two Speed) (Forward/Reverse Lever)	1
	1386979	Clutch Pack	1
1	346675	Snap Ring	3
2	41208	Bearing	1
3	1396053	Thrust Washer	1
4	346731	Needle Bearing	2
5	346696	Thrust Washer	3
6	346730	Needle Bearing	3
7	1386989	Gear (Low Output)	1
8	334475	Snap Ring	2
9	1394881	Pressure Plate (0.248-0.252 in.)	2
10	1469301	Friction Disk (Friction)	18
11	1387235	Separator Plate (Separator)	18
12	1386958	O-Ring	2
13	1394912	Snap Ring	2
14	1394893	Guide	2
15	1394882	Spring	2
16	1394879	O-Ring	2
17	1394885	Piston	2
18	334402	Seal	2
19	1386982	Shaft (Input)	1
20	124606	Ball Bearing	2
21	12894	Snap Ring	2
22	1386916	Spacer	1
23	1386991	Gear (High Output)	1
24	124682	Ball Bearing	1
25	346677	Ring	5

CLUTCH PACK (FIGURE 5-9) POWERSHIFT — INPUT, REVERSE, LONG SHAFT (S/N G006V02234B →)



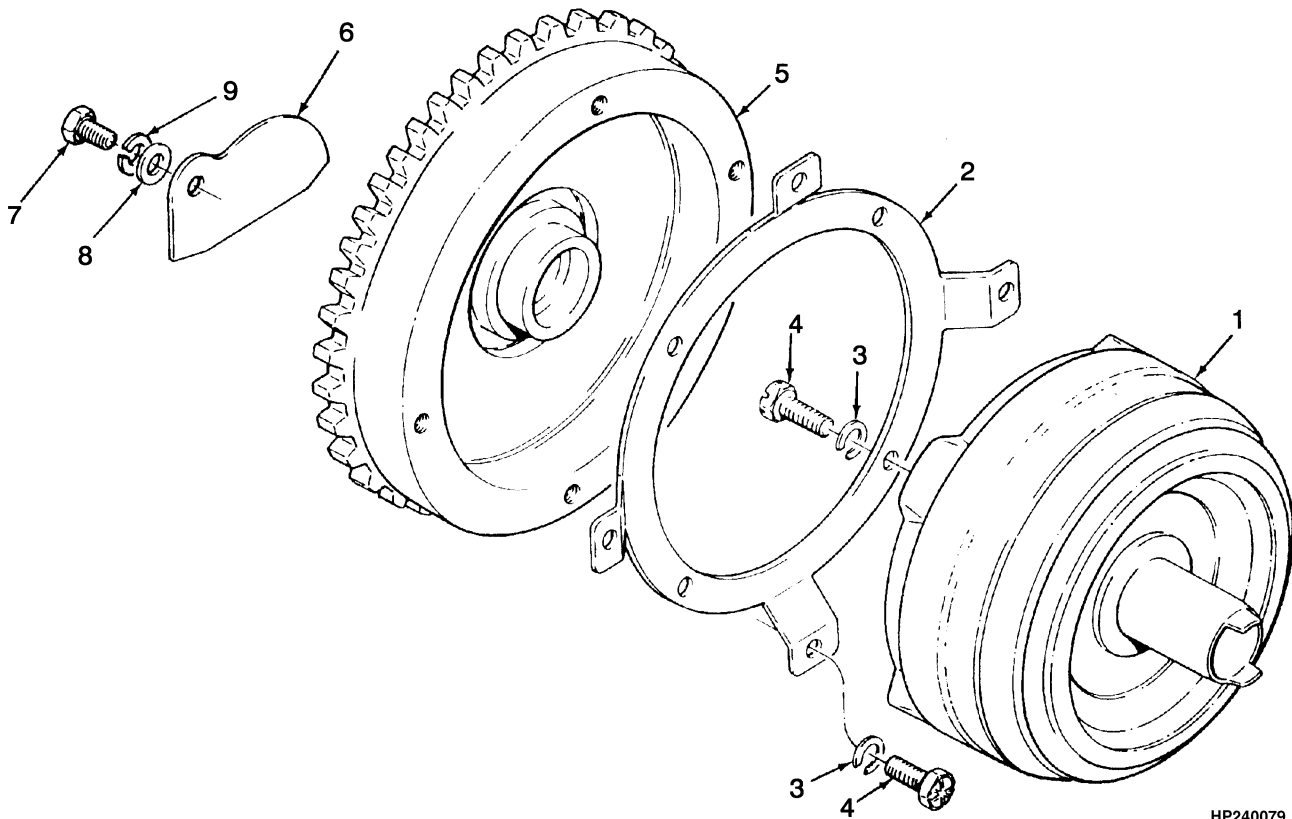
BP240054

CLUTCH PACK

POWERSHIFT – INPUT, REVERSE, LONG SHAFT (S/N G006V02234B →)

ITEM	PART NO.	DESCRIPTION	QTY
	b 1568833	Transmission Assy (Two Speed)	1
	a 1568855	Transmission Assy	1
	1534503	Clutch Pack (Input, Reverse, Long Shaft)	1
1	1568908	Washer (Special)	2
2	1568909	Snap Ring	2
3		Plate (Conical)	2
4		Plate (Friction)	18
5		Plate (Separator)	16
6	1537449	Pressure Plate (6.0 mm) (Standard)	2
6	1543094	Pressure Plate (5.8 mm) (Optional)	AR
6	1543096	Pressure Plate (5.6 mm) (Optional)	AR
6	1543097	Pressure Plate (5.4 mm) (Optional)	AR
6	1543098	Pressure Plate (5.2 mm) (Optional)	AR
7	1537450	Snap Ring	2
8	1582266	Ball Bearing	1
9	1552537	Snap Ring	2
10	1568913	Spacer	1
11		Seal (D Ring)	2
12	1568910	Gear	1
13	1582267	Ball Bearing	1
14	1568911	Ball Bearing	1
14		Snap Ring	1
15	1552521	Snap Ring	3
16		Seal Ring	5
17	1568907	Spring	2
18	1568905	Piston	2
19		Seal Ring	2
20		Seal Ring	2
21		Shaft (Input, Long Shaft)	1
22		Washer (Thrust)	2
23		Thrust Bearing (Needle)	2
24	1568914	Gear	1
25	1568912	Needle Bearing	2
26	1552523	Washer (Stepped)	1
27	1552517	Ball Bearing	1
	1582269	Kit-Clutch Pack Plates (Disk)	1
	1582270	Kit-Clutch Pack Seals (Seal)	1
	1582271	Kit-Clutch Pack Plates/Seals	1
	1582272	Kit-Clutch Pack (Thrust Needle Bearings)	1

FOOTNOTES:**a** → S/N G006V03427C**b** S/N G006V03428C →

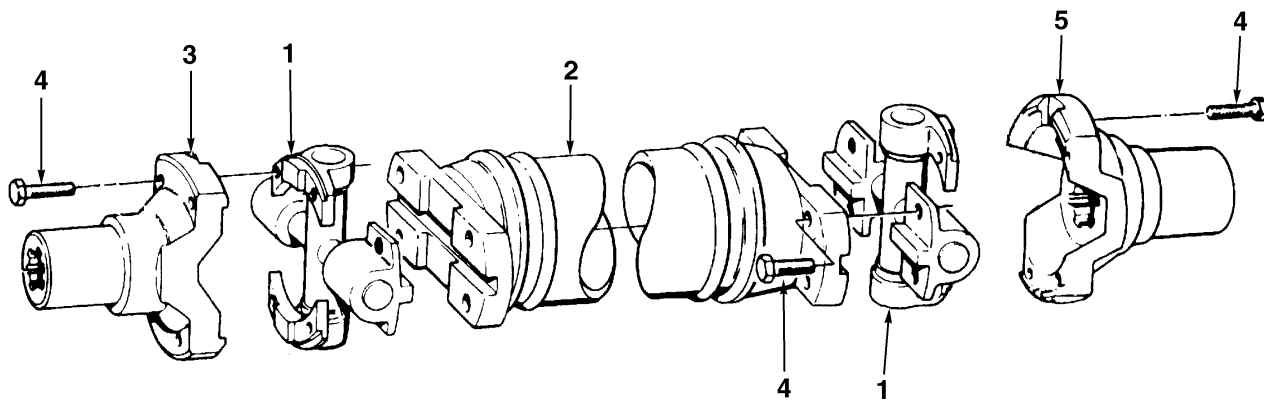
TORQUE CONVERTER (FIGURE 5-10)
POWERSHIFT

HP240079

**TORQUE CONVERTER
POWERSHIFT****KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	344343	Torque Converter	1	1
1	373449	Seal (Not Illustrated)	1	1
2	304464	Mounting Plate	1	1
3	261379	Washer	8	8
4	15942	Bolt	8	8
5	1454600	Flywheel	..	1
5	1459400	Flywheel	1	..
6	388513	Plate	1	..
7	287851	Capscrew	1	..
8	320158	Washer	1	..
9	292681	Lockwasher	1	..

DRIVE SHAFT ASSEMBLY (FIGURE 5-11)



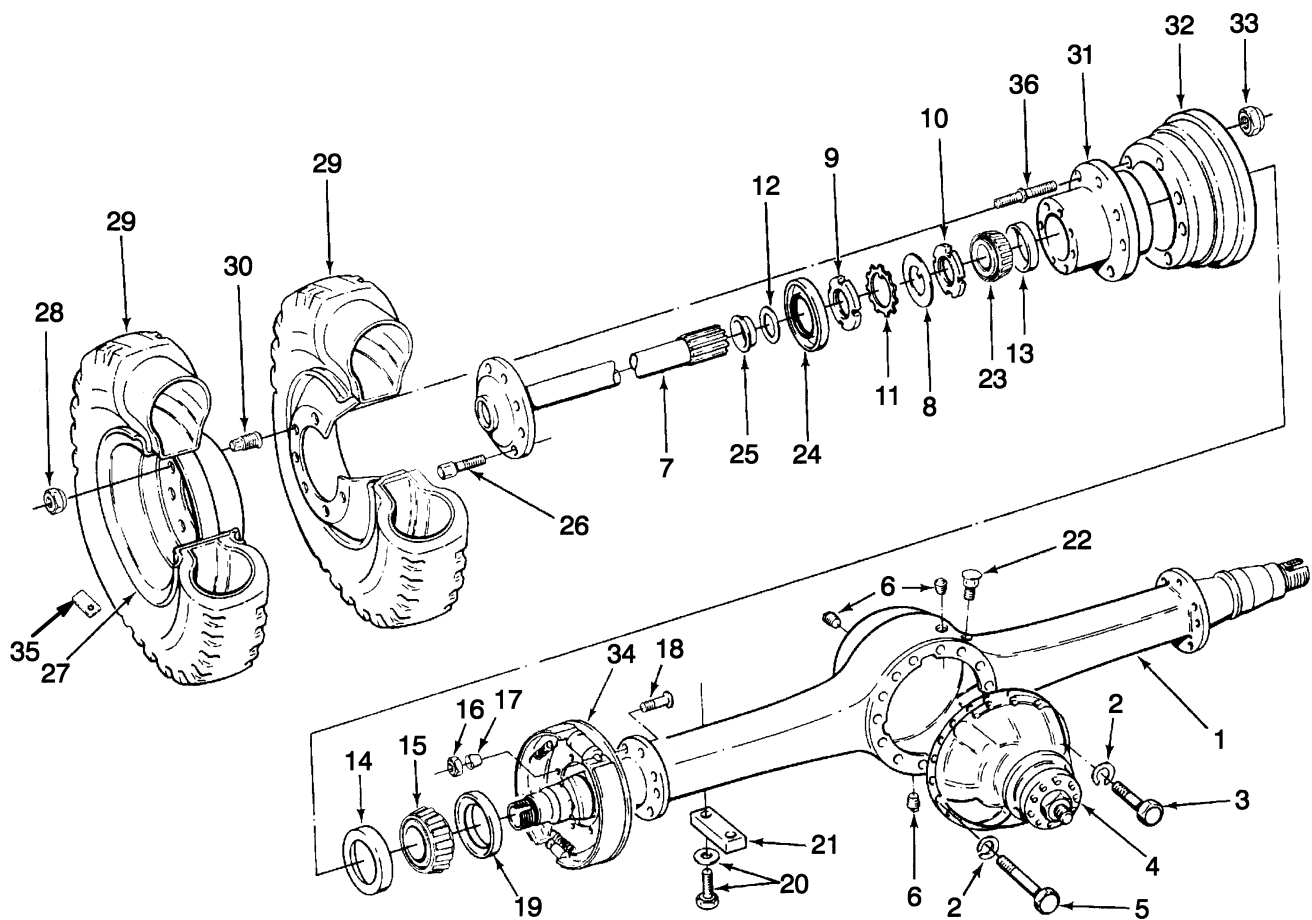
HP240419

ITEM	PART NO.	DESCRIPTION	QTY
	1484173	Drive Shaft	1
1	199861	Bearing	2
2	1498113	Tube Assy	1
3	366790	Yoke (Transmission End)	1
4	221507	Capscrew	16
5	1483880	Yoke (Differential End)	1

NOTES

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DRIVE AXLE (FIGURE 5-12)

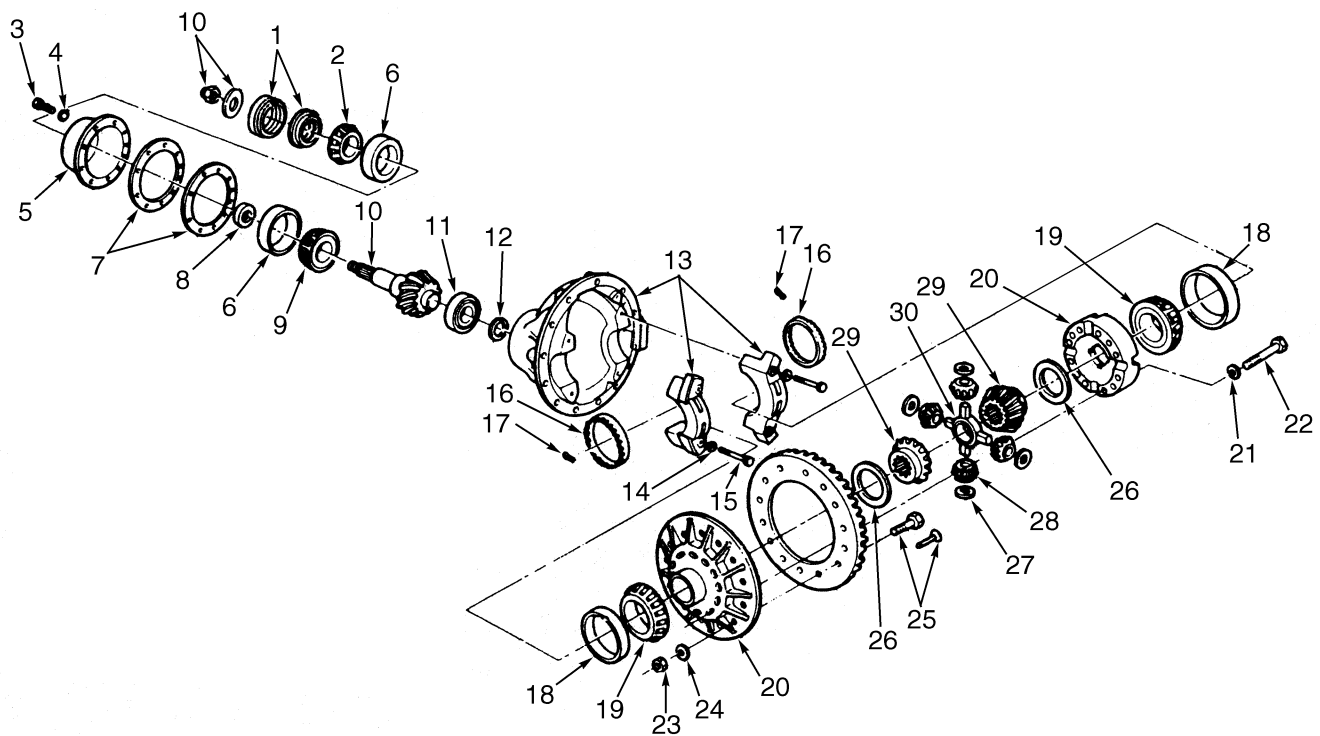


YP070049

DRIVE AXLE

ITEM	PART NO.	DESCRIPTION	QTY
1	1479160	Drive Axle (Powershift) (☞ Figure 5-14).....	1
1	1497902	Drive Axle Housing (☞ Figure 5-14).....	1
2	86007	Washer	12
3	1497903	Screw	8
4	1497909	Differential	1
5	1497904	Screw	4
6	332276	Plug	3
7	1497907	Axle Shaft (LH)	1
7	1497908	Axle Shaft (RH)	1
7	313022	Sealant	AR
8	116067	Lockwasher	2
9	293323	Nut	2
10	293322	Nut	2
11	1497906	Lockwasher	2
12	1579260	Gasket	2
13	230324	Bearing Cup	1
14	30190	Bearing Cup	1
15	230378	Bearing Cone	2
16	278326	Nut	14
17	153778	Thimble	14
18	1491571	Capscrew	14
19	44538	Seal	2
20	221702	Capscrew	4
20	221780	Washer	4
21	1361489	Retainer	2
22	1613651	Breather	1
23	230325	Bearing Cone	2
24	258120	Seal	2
25	265659	Wear Sleeve	2
26	213670	Capscrew	32
27		Wheel (☞ Figure 11-8).....	4
28	11286	Wheel Nut	12
29		Tire (☞ Figure 11-8).....	4
30	11287	Wheel Nut	12
31	372011	Hub	2
32	1392223	Brake Drum (☞ Figure 7-5).....	2
33	248320	Wheel Nut	12
34		Brake	2
35	336555	Plate (Valve Stem)	2
36	26400	Wheel Stud	6

DIFFERENTIAL AND CARRIER (FIGURE 5-13)



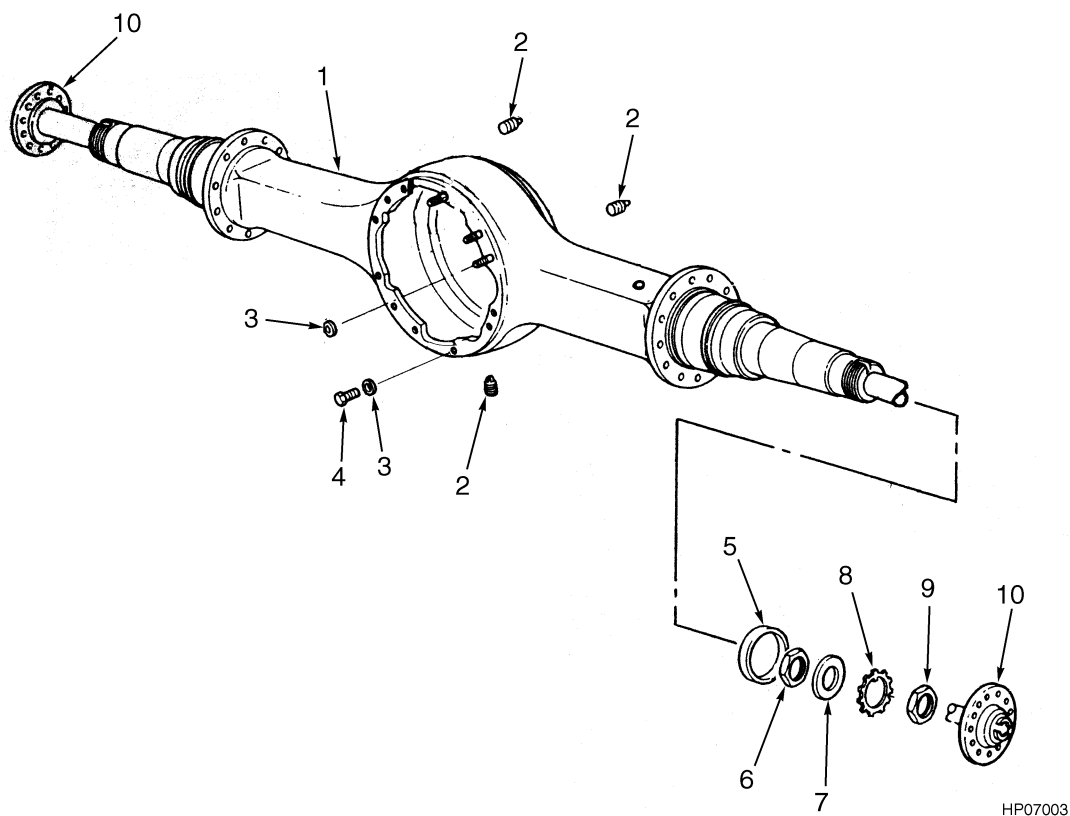
HP070072

DIFFERENTIAL AND CARRIER

ITEM	PART NO.	DESCRIPTION	QTY
	1479160	Drive Axle	1
	1497909	Differential	1
1	1642099	Oil Seal	1
2	1347812	Bearing Cone	1
3	1347819	Capscrew	8
4	1450861	Washer	8
5	1380779	Cage	1
6	200972	Bearing Cup (Outer)	1
6	30062	Bearing Cup (Inner)	1
7	1347814	Shim	1
7	1347815	Shim	2
7	1347816	Shim	3
7	1347817	Shim	3
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
8		Spacer	2
9	1347774	Bearing Cone	1
10	1497910	Bevel Gear	1
10	1357734	Locknut	1
10	1312083	Washer	1
11	296844	Bearing	1
12	240683	Snap Ring	1
13	1374097	Screw (Not Illustrated)	1
13	1312616	Locknut (Not Illustrated)	1
13	1380777	Ball (Not Illustrated)	2
13	1502129	Bearing Cap	1
14	1347770	Washer	4
15	293716	Capscrew	4
16	1347839	Ring	2
17	86008	Cotter Pin	2
18	1475420	Bearing Cup	2
19	1475421	Bearing Cone	2
20	1489409	Differential Housing	1
20	1489410	Case	1
20	1489286	Kit-Differential	1
21	1450861	Washer	16
22	1347831	Capscrew	16
23	1374550	Nut	12
24	125428	Washer	12
25	1347822	Bolt	12
26	1380797	Thrust Washer	2
27	200982	Washer	4

DIFFERENTIAL AND CARRIER

ITEM	PART NO.	DESCRIPTION	QTY
28	1347835	Pinion	4
29	1380776	Gear	2
30	1318626	Spider	1
	1347813	Kit-Shim	1
	1347800	Kit-Spacer	1
	1380798	Carrier	1
	1489287	Kit-Hardware	1

AXLE HOUSING AND ATTACHING PARTS (FIGURE 5-14)

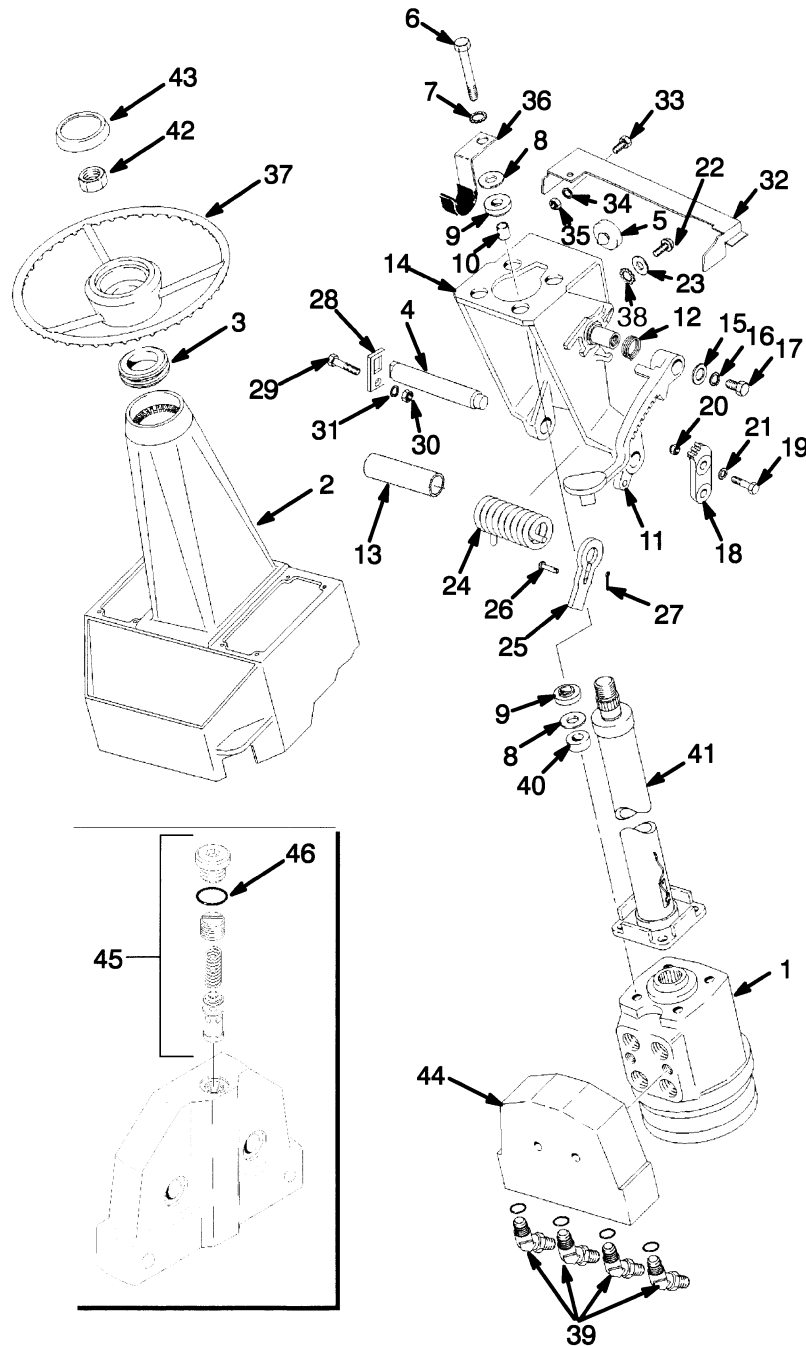
ITEM	PART NO.	DESCRIPTION	QTY
	1479160	Drive Axle	1
1	1497902	Drive Axle Housing	1
2	332276	Plug	3
3	86007	Washer	12
4	1497903	Screw (Short)	8
4	1497904	Screw (Medium)	4
5	1497905	Wiper (Inner)	2
6	293322	Nut	2
7	116067	Lockwasher	2
8	1497906	Lockwasher	2
9	293323	Nut	2
10	1497907	Axle Shaft (LH)	1
10	1497908	Axle Shaft (RH)	1

[illegible]

SECTION 6
STEERING SYSTEM

DESCRIPTION	PAGE
STEERING AXLE	6-8
STEERING COLUMN	6-2
STEERING CONTROL UNIT	6-6
STEERING CYLINDER	
→ S/N G006V03788D	6-14
S/N G006V03789D →	6-16
STEERING PUMP	6-12

STEERING COLUMN (FIGURE 6-1)



YP220098

STEERING COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
1	357288	Steering Pump (☞ Figure 6-2).....	1
2	1336570	Steering Column	1
3	1336465	Grommet	1
4	1336479	Shaft	1
5	1346744	Bumper	1
6	16376	Capscrew	4
7	15920	Lockwasher	4
8	1334790	Washer	8
9	1336468	Isolator	8
10	1336503	Spacer	4
11	1336480	Latch	1
12	1336483	Spring	1
13	1350404	Bushing	1
14	1346867	Bracket (Optional)	1
14	1344055	Bracket	1
15	296442	Washer	1
16	292683	Lockwasher	1
17	132860	Capscrew	1
18	1336474	Anchor	1
19	287860	Capscrew	2
20	316826	Nut	2
21	296421	Washer	2
22	1346863	Capscrew	2
23	1346862	Washer	2
24	1346743	Spring	1
25	1336476	Tensioner	1
26	930775	Pin	1
27	15203	Cotter Pin	1
28	1336472	Plate	1
29	136749	Screw	1
30	239503	Nut	1
31	293780	Lockwasher	1
32	1336481	Cover	1
33	292500	Capscrew	2
34	292680	Washer	2
35	136687	Nut	2
36	1344054	Clamp	1
37	352955	Steering Wheel	1
38	1346866	Lockwasher	2
39	17196	Fitting	4
40	1300165	Spacer	4
41	1312733	Steering Column	1
41	362816	Kit-Terminal	1
42	345423	Nut	1
43	371666	Horn Button	1
44	1311011	Valve Block	1
44	366063	Relief Valve	1
44	366064	Pin	1
44	389824	Kit-Seal	1
44	366066	Kit-Repair Valve	1
45	366063	Relief Valve	1

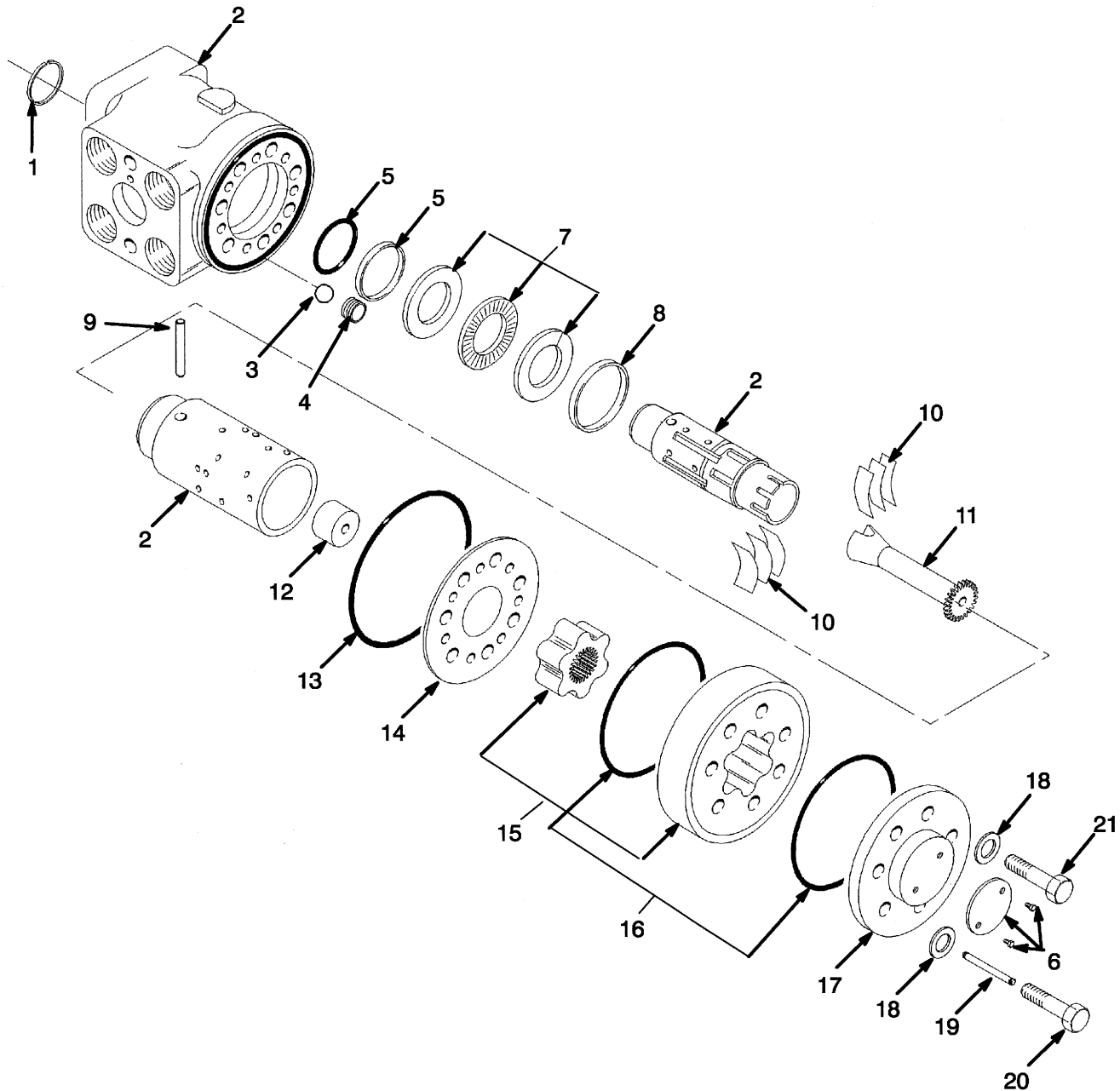
STEERING COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
45	366065	Seal	1
46	366065	Seal	1

NOTES

[illegible]

STEERING CONTROL UNIT (FIGURE 6-2)

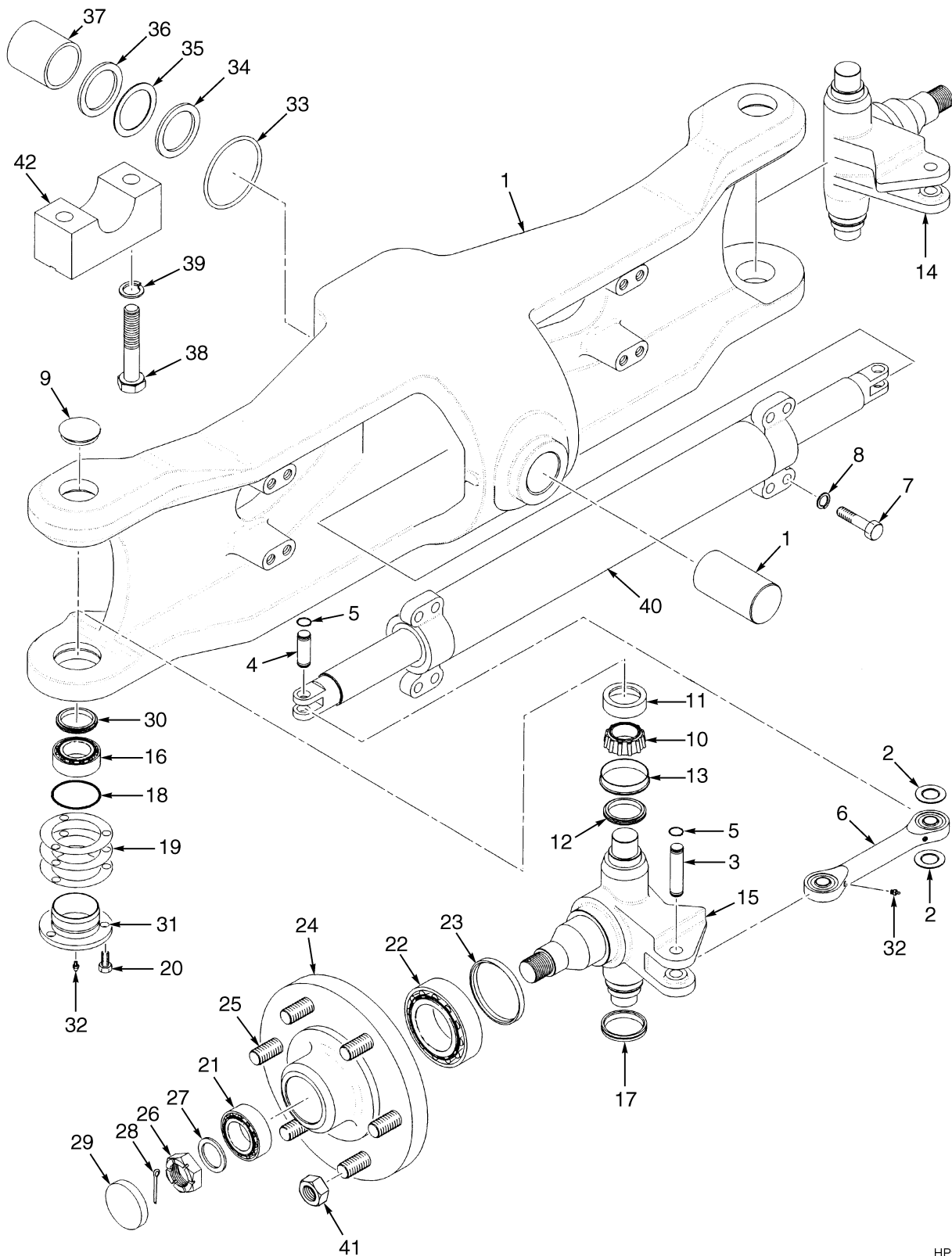


HP220063

STEERING CONTROL UNIT

ITEM	PART NO.	DESCRIPTION	QTY
	357288	Steering Pump	1
1		Sealing Ring	1
2		Housing	1
2		Spool	1
3	345408	Ball	1
4	345409	Bushing	1
5	2032230	Seal	1
6		Plate	1
6		Screw	2
7	345410	Bearing Set	1
8	345411	Ring	1
9	345412	Pin	1
10	1303787	Spring	2
11	1355326	Shaft	1
12	366067	Spacer	1
13		O-Ring	1
14	1357026	Plate	1
15	366068	Gear Set	1
16		O-Ring	2
17	345424	End Cover	1
18		Washer	7
19	345418	Pin	1
20	366069	Screw	1
21	371344	Capscrew	6
	2032229	Kit-Seal	1

STEERING AXLE (FIGURE 6-3)



HP220277

STEERING AXLE

ITEM	PART NO.	DESCRIPTION	QTY
	1491404	Steering Axle	1
1	346299	Steering Axle	1
1	349281	Shaft	2
2	1345684	Seal	8
3	a 1544970	Pin	2
3	c 1568270	Pin	2
4	a 1544971	Pin	2
4	c 1568271	Pin	2
5	58903	Snap Ring	8
6	a 1491406	Tie Rod	2
6	a 1350680	Bearing	2
6	c 1568078	Tie Rod	2
6	c 1568039	Spherical Roller Bearing	2
7	293688	Capscrew	8
8	292685	Lockwasher	8
9	185860	Plug	2
10	153715	Bearing Cone	2
11	230421	Bearing Cup	2
12	153716	Seal	2
13	153717	Wear Sleeve	2
14	1383795	Spindle (RH)	1
15	1383797	Spindle (LH)	1
16	135657	Bearing Cone	1
17	266733	Seal	2
18	39678	O-Ring	2
19	185856	Shim (0.005 in.)	AR
19	185857	Shim (0.007 in.)	AR
19	185858	Shim (0.020 in.)	AR
19	1563858	Shim (0.002 in.)	AR
20	293628	Capscrew	6
21	153835	Bearing Cone	2
22	230325	Bearing Cone	2
23	129498	Seal	2
24	357293	Hub	2
24	230324	Bearing Cup	1
24	153834	Bearing Cup	1
24	129499	Wear Sleeve	1
25	107296	Wheel Stud	6
26	53641	Wheel Nut	2
27	1383775	Washer	2
28	15225	Cotter Pin	2
29	69029	Cap	2
30	266728	Seal	2
31	266612	Bearing Cap (Assembly)	2
31	266735	Bearing Cap	1
31	135658	Bearing Cup	1
32	13957	Grease Fitting	6
33	131193	Sealing Ring	2
34	1335870	Flange	2
35	131190	Shim (0.110 in.)	3
36	131191	Shim (0.040 in.)	3

STEERING AXLE

ITEM	PART NO.	DESCRIPTION	QTY
37	1335873	Bushing	2
38	292590	Capscrew	4
39	292687	Lockwasher	4
40	b 344390	Steering Cylinder (☞ Figure 6-5).....	1
40	d 2079365	Steering Cylinder (☞ Figure 6-6).....	1
41	11276	Wheel Nut	12
42	350183	Bearing Cap	2

FOOTNOTES:

a → S/N G006V01904B

b → S/N G006V03788D

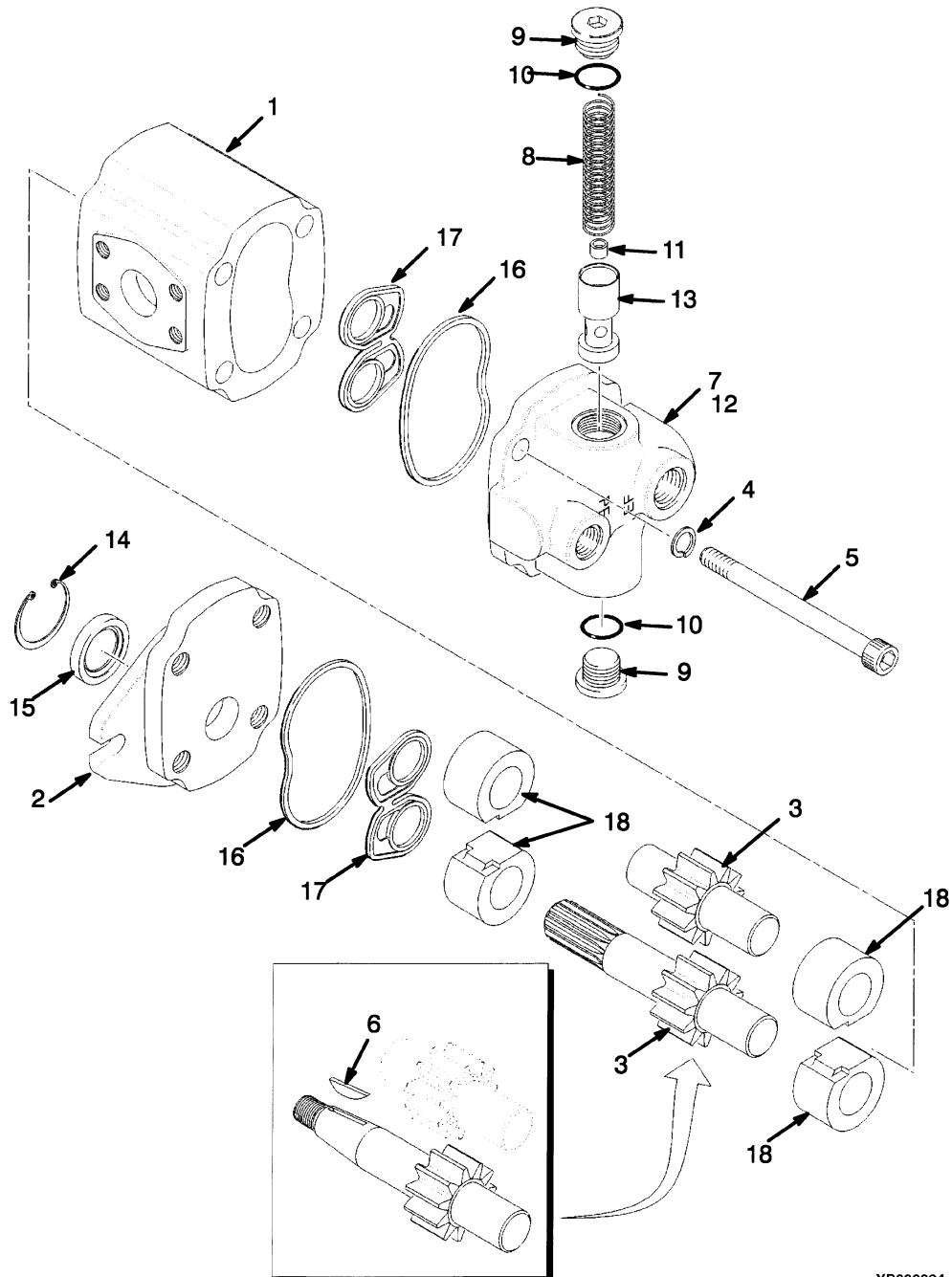
c S/N G006V01905B →

d S/N G006V03789D →

NOTES

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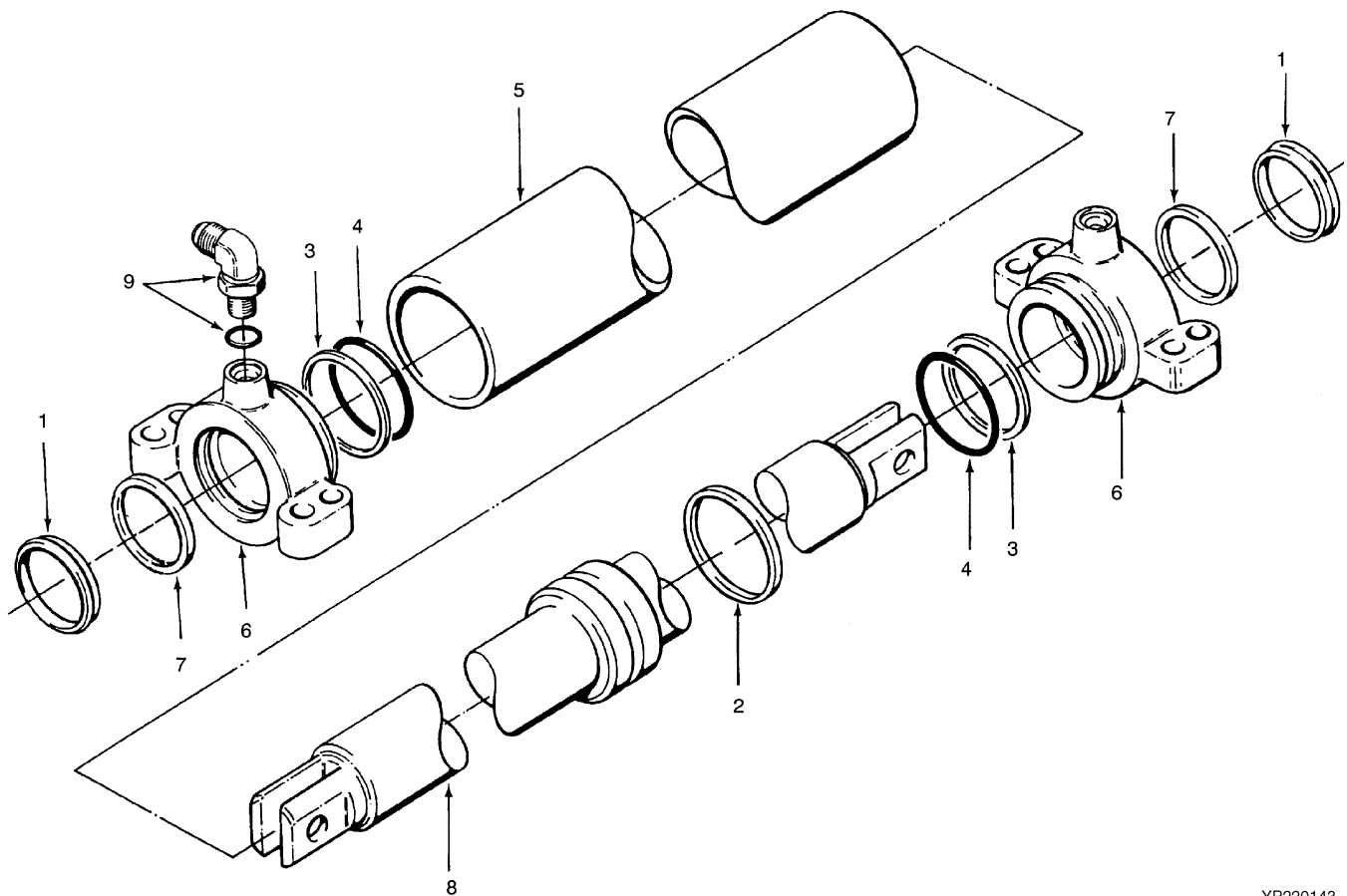
STEERING PUMP (FIGURE 6-4)



YP220234

STEERING PUMP**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2036997	Pump	1	..
	2036998	Pump	..	1
1		Body	1	1
2	1458844	Flange	1	1
3	1465574	Gear Set	1	..
3	1465577	Gear Set	..	1
4	293781	Lockwasher	4	4
5	1328812	Bolt	4	4
6	1465572	Key	1	..
7	1465573	Flow Valve	1	1
8	321797	Spring	1	1
9	321792	Plug ("B")	2	2
10	16485	O-Ring	2	2
11	1465575	Plug	1	1
12		Body	1	1
13		Plunger	1	1
14		Snap Ring	1	1
15		Oil Seal	1	1
16		Seal	2	2
17		Seal	2	2
18		Bushing	4	4
	1458845	Kit-Seal	1	1
	1465574	Gear Set	1	..
	1465577	Gear Set	..	1

STEERING CYLINDER (FIGURE 6-5)
(→ S/N G006V03788D)

YP220143

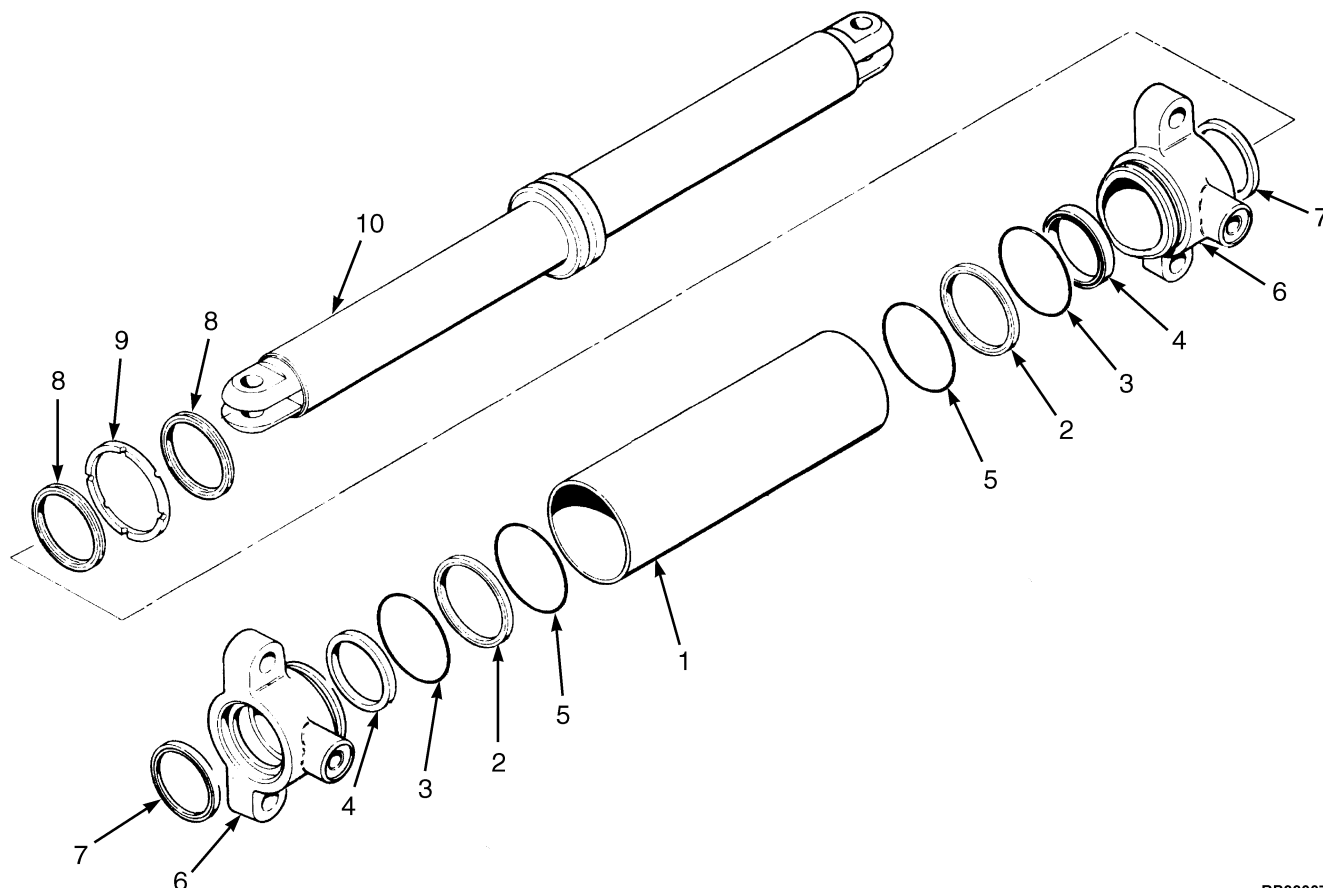
STEERING CYLINDER

(→ S/N G006V03788D)

ITEM	PART NO.	DESCRIPTION	QTY
	344390	Steering Cylinder	1
1	203071	Rod Wiper	2
2	2046765	Seal	1
3	154358	Back-Up Ring	2
4	133920	O-Ring	2
5	344391	Tube Wldmt-Cylinder	1
6	344395	End Cap	2
7	2032490	Seal	2
8	344392	Cylinder Rod	1
9	16558	Fitting	2
9	16483	O-Ring	1
	1501408	Kit-Seal	1

STEERING CYLINDER (FIGURE 6-6)

(S/N G006V03789D →)



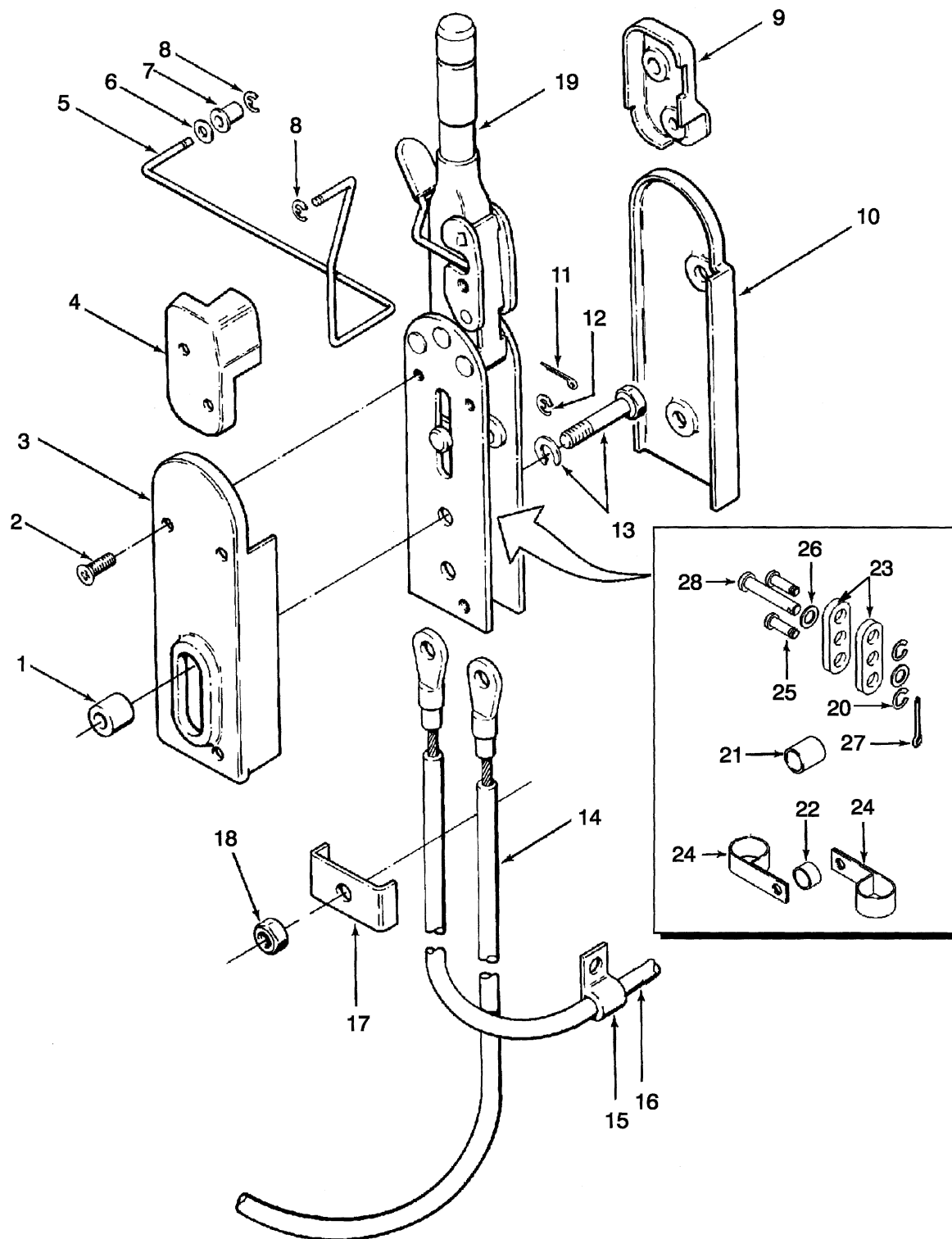
BP220072

ITEM	PART NO.	DESCRIPTION	QTY
	2079365	Steering Cylinder	1
1	344391	Tube Wldmt-Cylinder	1
2	154358	Back-Up Ring	2
3	39679	O-Ring	2
4	1380092	Rod Seal	2
5	133920	O-Ring	2
6	1594137	End Cap	2
7	2071094	Rod Wiper	2
8	1611065	Wear Ring	2
9	2046765	Seal	2
10	1611062	Piston Rod	1
	1626361	Kit-Seal	1

**SECTION 7
BRAKE SYSTEM**

DESCRIPTION	PAGE
BRAKE	
→ S/N G006V05062E	7-12
S/N G006V05063E → EXC. 05098-05100	7-14
BRAKE BOOSTER	7-16
BRAKE LINES	
→ S/N G006V03427C	7-4
S/N G006V03428C →	7-6
BRAKE PEDAL LINKAGE	
POWERSHIFT	7-8
MASTER CYLINDER	7-18
PARK BRAKE	7-2

PARK BRAKE (FIGURE 7-1)



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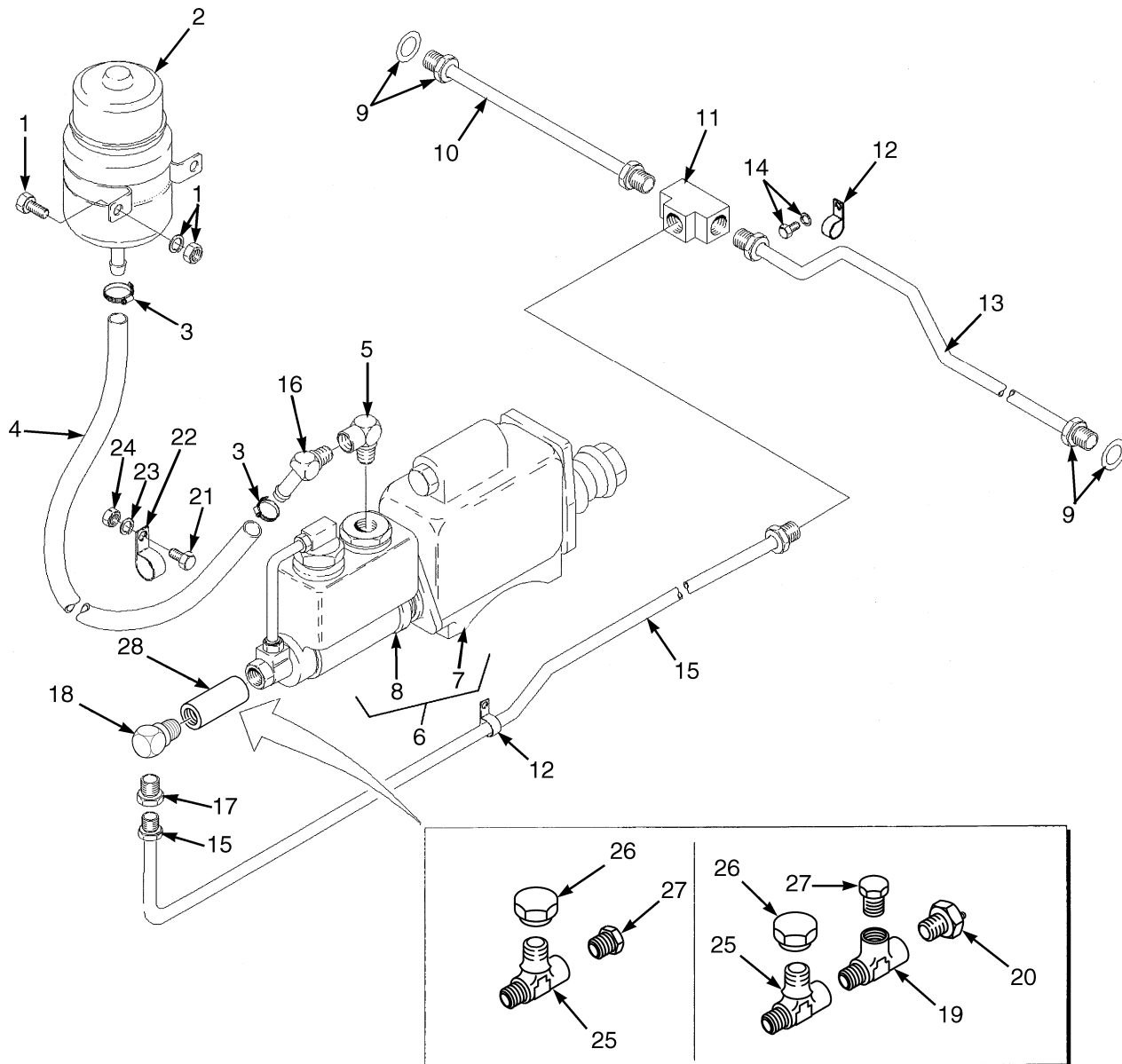
PARK BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	342962	Spacer	2
2	1328688	Screw	7
3	353013	Cover	1
4	353012	Cover	1
5	a 1322669	Link	1
6	a 15172	Washer	2
7	a 352605	Bearing	1
8	a 352575	E-Ring	2
9	353011	Cover	1
10	353009	Cover	1
11	15200	Cotter Pin	1
12	353206	Retaining Ring	2
13	136703	Capscrew	2
13	292681	Lockwasher	2
14	1460789	Parking Brake Cable (LH)	1
15	387316	Clamp	1
16	1460790	Parking Brake Cable (RH)	1
17	353497	Clamp	1
18	313828	Nut	1
19	1494931	Parking Brake Lever	1
20	1331006	Snap Ring	2
21	1330998	Spacer	1
22	1330999	Spacer	1
23	1331001	Link	2
24	1331002	Clamp	2
25	1335467	Pin	2
26	1335468	Washer	2
27	15200	Cotter Pin	1
28	1333572	Pin	1

FOOTNOTES:**a** Monotrol Pedal

BRAKE LINES (FIGURE 7-2)

(→ S/N G006V03427C)



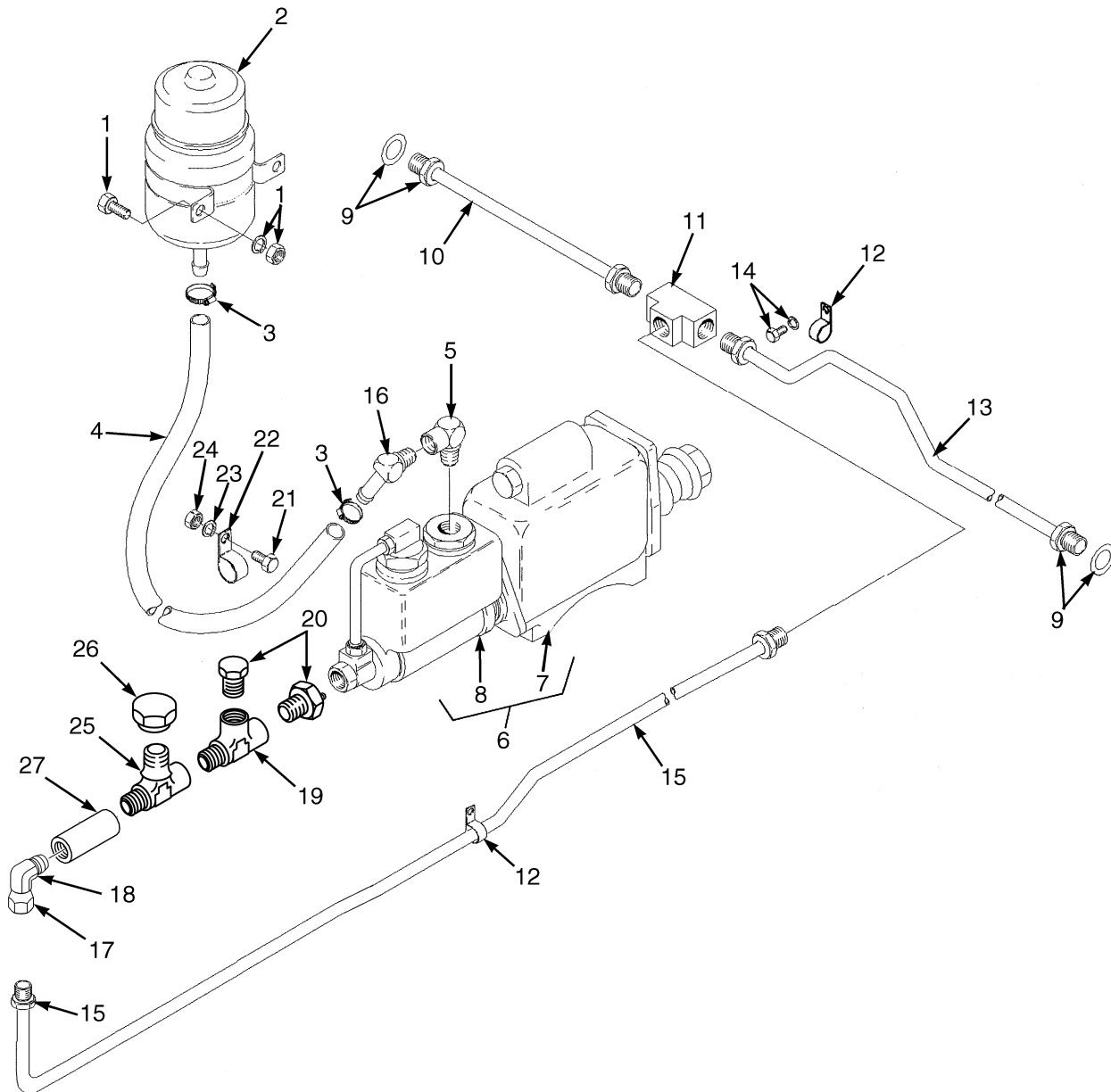
HP040381

BRAKE LINES
(→ S/N G006V03427C)

ITEM	PART NO.	DESCRIPTION	QTY
1	136687	Nut	2
1	292501	Capscrew	2
1	292680	Washer	2
2	1489805	Reservoir	1
2	1491824	Cap	1
2	1491825	Clamp	1
3	353311	Clamp	2
4	340206	Hose	1
5	16151	Fitting	1
6	1335187	Brake Valve	1
7	379238	Brake Booster (☞Figure 7-7).....	1
8	1347574	Master Cylinder (☞Figure 7-8).....	1
9	26801	Fitting	2
9	29344	Gasket	2
10	372014	Tube Assy	1
11	16195	Fitting	1
12	124359	Clamp	2
13	372015	Tube Assy	1
14	287851	Capscrew	1
14	292681	Lockwasher	1
15	377620	Tube Assy	1
16	222476	Fitting	1
17	16115	Fitting	1
18	ab 16151	Fitting	1
19	b 16186	Fitting	1
20	b 387867	Pressure Switch	1
21	136749	Screw	1
22	136516	Clamp	1
23	292681	Lockwasher	1
24	239503	Nut	1
25	16125	Fitting	1
26	281700	Fitting	1
27	ab 14349	Fitting (Pipe Plug)	1
28	ab 16199	Fitting	1

FOOTNOTES:**a** Powershift (Forward/Reverse Lever)**b** Powershift (Monotrol Pedal)

BRAKE LINES (FIGURE 7-3) (S/N G006V03428C →)

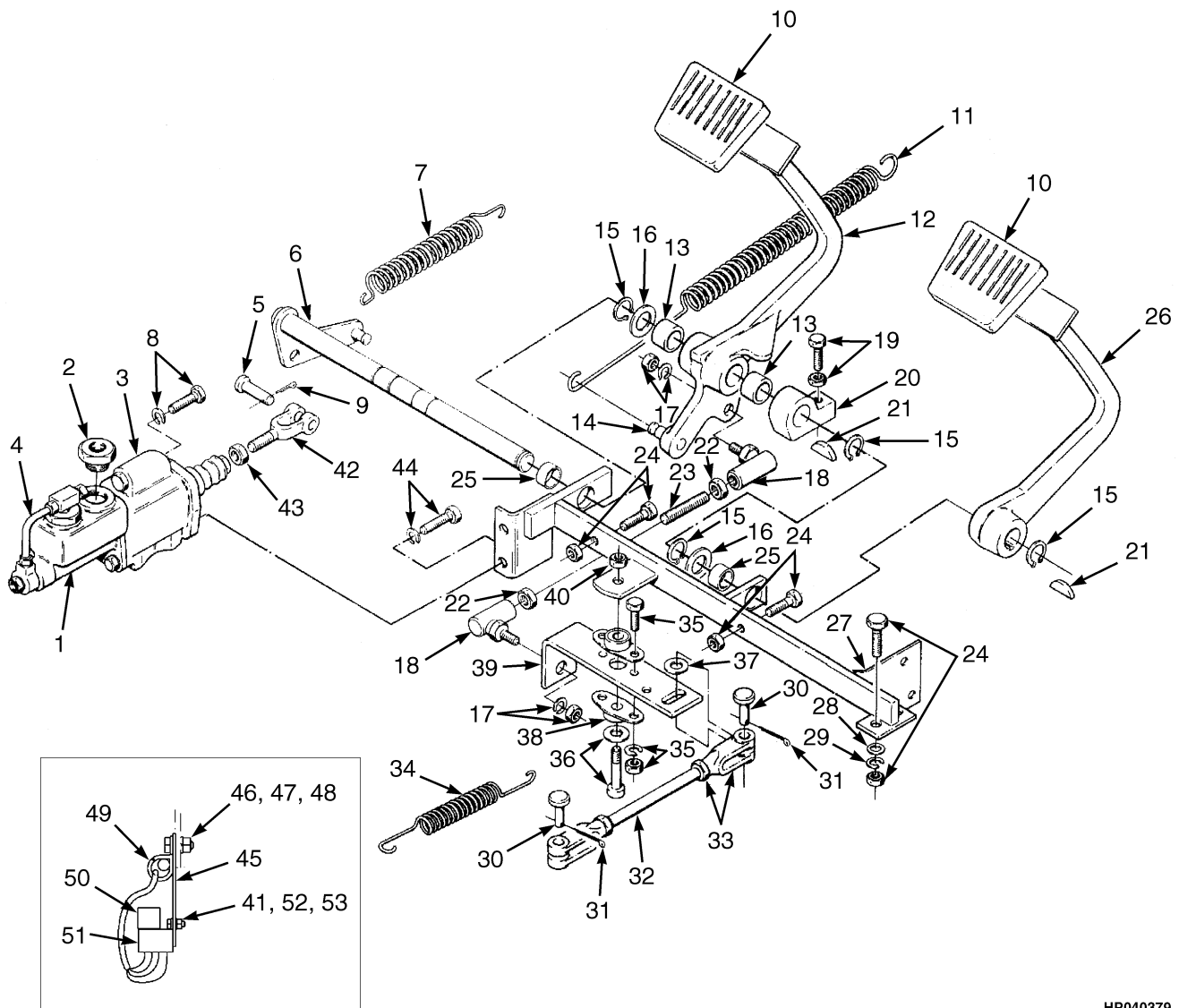


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BRAKE LINES
(S/N G006V03428C →)

ITEM	PART NO.	DESCRIPTION	QTY
1	136687	Nut	2
1	292501	Capscrew	2
1	292680	Washer	2
2	1489805	Reservoir	1
2	1491824	Cap	1
2	1491825	Clamp	1
3	353311	Clamp	2
4	340206	Hose	1
5	16151	Fitting	1
6	1335187	Brake Valve	1
7	379238	Brake Booster (☞Figure 7-7).....	1
8	1347574	Master Cylinder (☞Figure 7-8).....	1
9	26801	Fitting	2
9	29344	Gasket	2
10	372014	Tube Assy	1
11	16195	Fitting	1
12	124359	Clamp	2
13	372015	Tube Assy	1
14	287851	Capscrew	1
14	292681	Lockwasher	1
15	377620	Tube Assy	1
16	222476	Fitting	1
17	16115	Fitting	1
18	16151	Fitting	1
19	16186	Fitting	1
20	387867	Pressure Switch	2
21	136749	Screw	1
22	136516	Clamp	1
23	292681	Lockwasher	1
24	239503	Nut	1
25	16125	Fitting	1
26	281700	Fitting	1
27	16199	Fitting	1

BRAKE PEDAL LINKAGE (FIGURE 7-4) POWERSHIFT



HP040379

**BRAKE PEDAL LINKAGE
POWERSHIFT**

ITEM	PART NO.	DESCRIPTION	QTY
1	1335187	Brake Valve	1
1	1347574	Master Cylinder (☞Figure 7-8).....	1
2	353835	Cap	1
3	379238	Brake Booster (☞Figure 7-7).....	1
4	278060	Tube Assy	1
5	153	Pin	1
6	372019	Shaft	1
7	372020	Spring	1
8	15157	Lockwasher	2
8	18558	Capscrew	2
9	15223	Cotter Pin	1
10	114496	Pad	2
11	340214	Spring	1
12	357301	Inching Pedal	1
13	270632	Bushing	2
14	227070	Pin	1
15	58908	Snap Ring	4
16	247747	Washer	2
17	15026	Nut	2
17	15156	Lockwasher	2
18	119758	Ball Joint	2
19	15028	Nut	1
19	37562	Capscrew	1
20	247748	Crank	1
21	17253	Woodruff Key	2
22	15026	Nut	2
23	340215	Link	1
24	136692	Nut	4
24	292515	Capscrew	4
25	270632	Bushing	2
26	344256	Brake Pedal	1
27	342931	Bracket Wldmt	1
28	320159	Washer	2
29	292682	Lockwasher	2
30	139	Pin	2
31	15211	Cotter Pin	2
32	357278	Link	1
33	138	Rod End	2
33	15025	Nut	2
34	309704	Spring	1
35	136687	Nut	2
35	292501	Capscrew	2
35	292680	Washer	2
36	320161	Washer	1
36	340213	Capscrew	1
37	320157	Washer	1
38	313860	Flange	2
39	340210	Plate	1
40	15086	Nut	1
41	292668	Nut	1

BRAKE PEDAL LINKAGE POWERSHIFT

ITEM	PART NO.	DESCRIPTION	QTY
42	340212	Rod End	1
43	15028	Nut	1
44	15157	Lockwasher	2
44	18559	Capscrew	2
45	a 1605789	Plate	1
46	287854	Capscrew	1
47	292682	Lockwasher	1
48	136692	Nut	1
49	153069	Clamp	1
50	a 1347114	Relay (Check)	1
51	a 2078468	Wire Harness (☞ Figure 4-25).....	1
52	2046866	Capscrew	1
53	292679	Washer	1

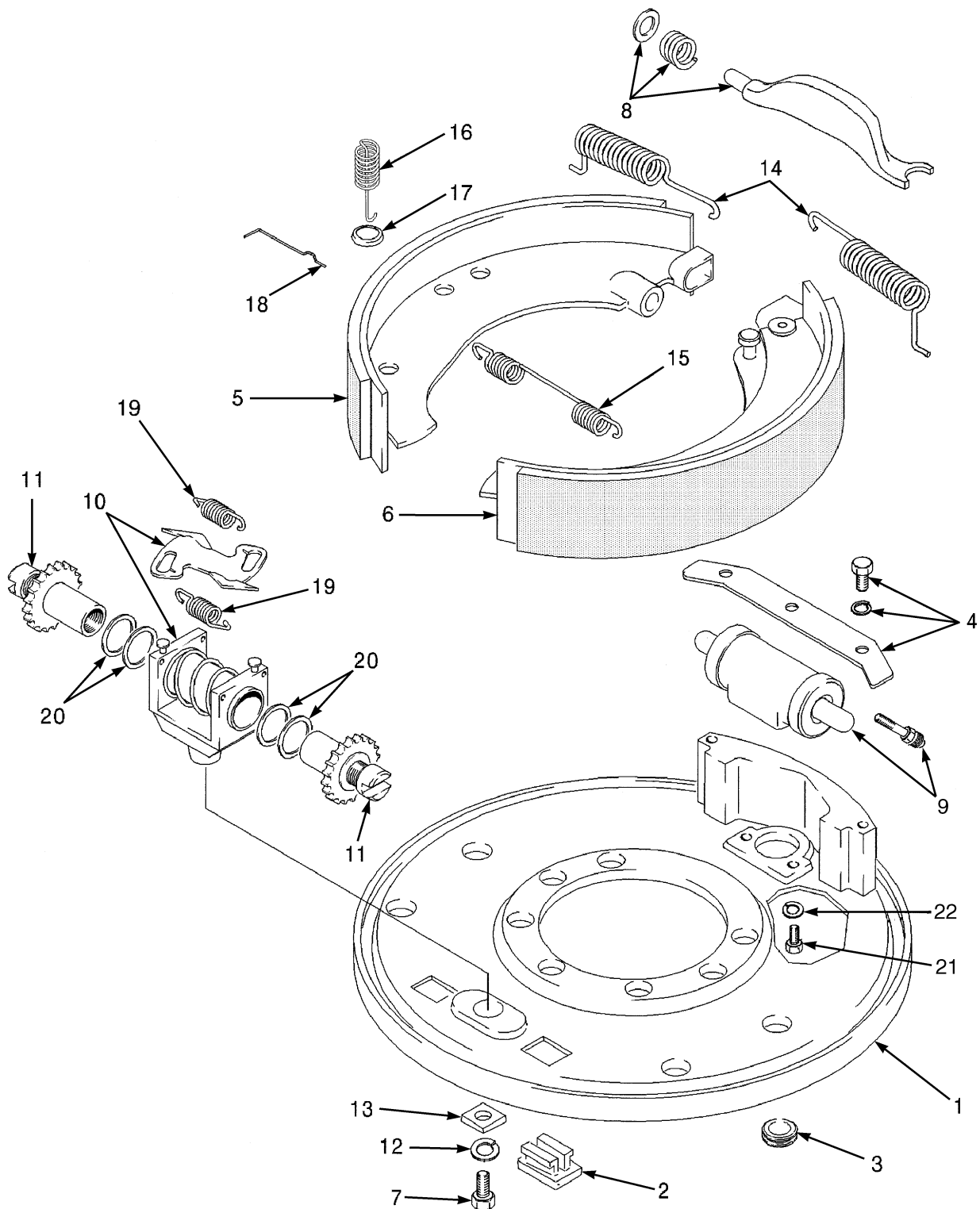
FOOTNOTES:

a S/N G006V03428C →

NOTES

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BRAKE (FIGURE 7-5) (→ S/N G006V05062E)



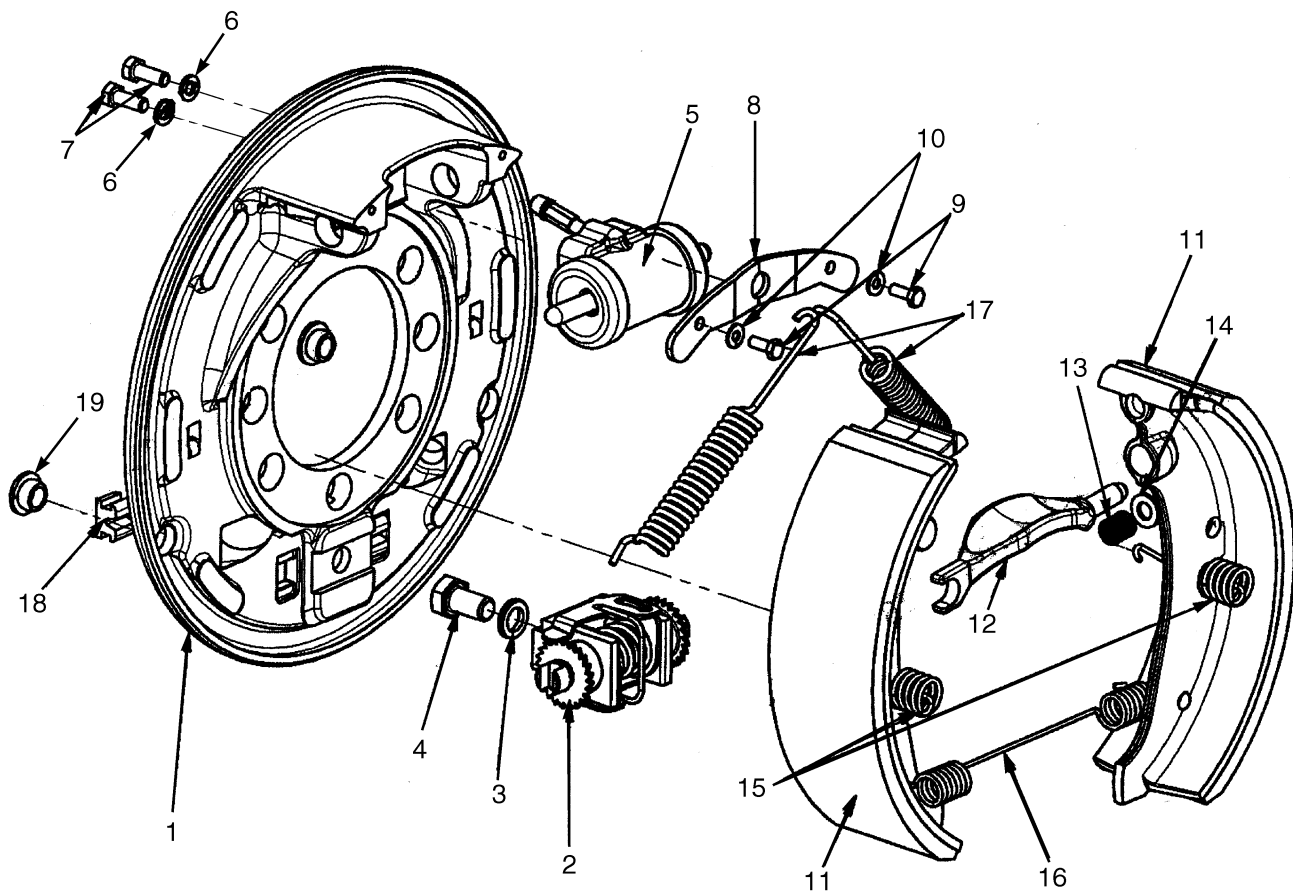
HP040068

BRAKE
(→ S/N G006V05062E)**KEY:****A:** Right Hand**B:** Left Hand

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1327565	Brake Assembly	1	..
	1327566	Brake Assembly	..	1
1	1323995	Spider	1	..
1	1324002	Spider	..	1
2	374535	Plug	2	2
3	374548	Plug (Inspection)	2	2
4	1321836	Screw	2	2
4	1321837	Spring Washer	2	2
4	1323996	Plate	1	1
5	1321838	Brake Shoe (Common)	1	1
6	1321839	Brake Shoe	..	1
6	1321843	Brake Shoe	1	..
7	293664	Capscrew	1	1
8	1323998	Bracket	1	1
8	374540	Spring	1	1
8	374541	Washer	1	1
9	1312904	Wheel Cylinder	1	1
9	1371220	Screw	1	1
9	a 1321373	Kit-Repair Wheel Cylinder	1	1
10	1357370	Adjuster	1	1
11	1323999	Screw	2	2
12	1321842	Spring Washer	1	1
13	1345903	Washer	1	1
14	374543	Spring (Return)	2	2
15	1520835	Spring	1	1
16	374545	Spring	2	2
17	374546	Lockplate	2	2
18	374547	Ring	2	2
19	374542	Spring	2	2
20	1300494	Washer (0.01 in.)	AR	AR
20	1300495	Washer (0.02 in.)	AR	AR
20	1300496	Washer (0.04 in.)	AR	AR
21	1321840	Screw	2	2
22	1321841	Spring	2	2

FOOTNOTES:**a** Includes Cups, Boots, Pistons and Pushrods

BRAKE (FIGURE 7-6) (S/N G006V05063E → EXC. 05098-05100)

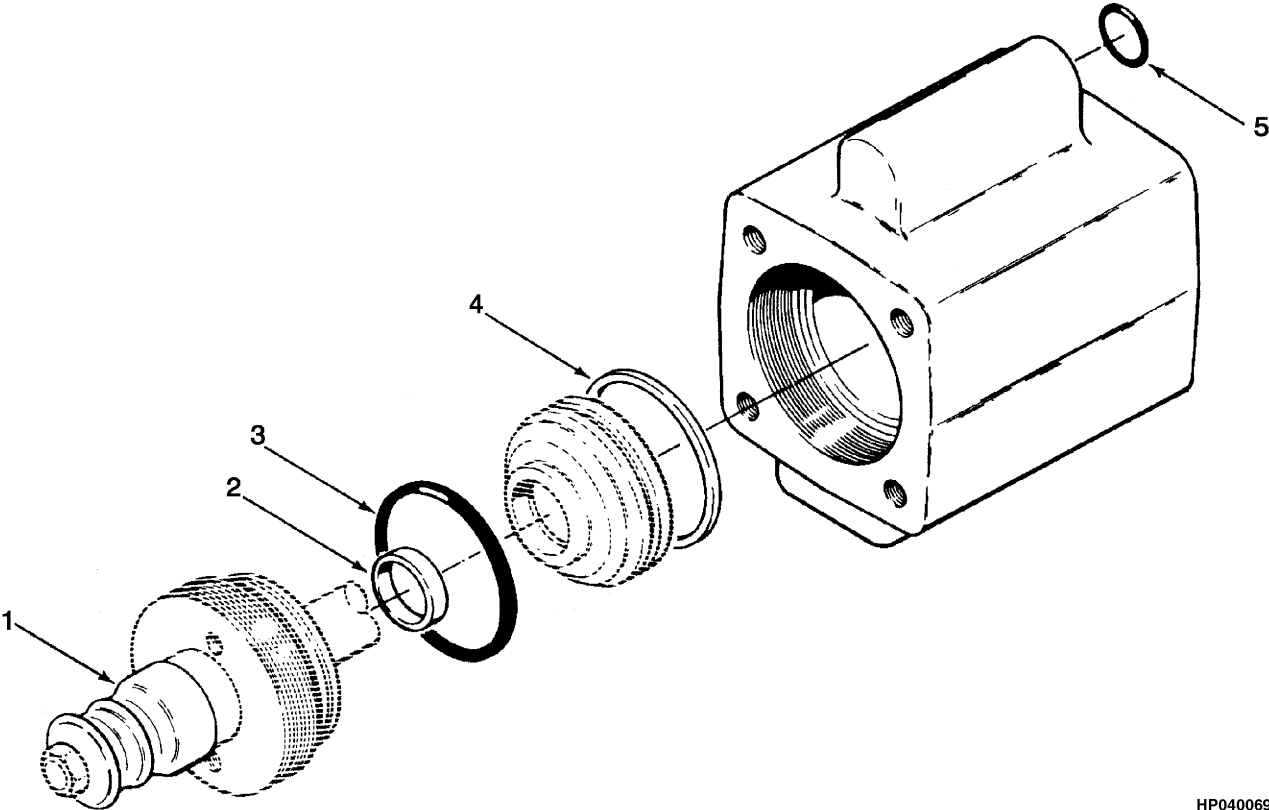


BP040097

BRAKE
(S/N G006V05063E → EXC. 05098-05100)

ITEM	PART NO.	DESCRIPTION	QTY
	1595882	Brake Assembly (RH)	1
	1595881	Brake Assembly (LH)	1
1		Anchor Plate	1
2		Auto Adjuster	1
3		Washer	2
4		Capscrew	1
5		Wheel Cylinder	1
6		Washer	2
7		Bolt	2
8		Retainer	1
9		Bolt	2
10		Washer	2
11		Brake Shoes	1
12		Ram	1
13		Spring	1
14		Disc	1
15		Spring	2
16		Spring	1
17		Spring	2
18		Plug	2
19		Plug	2
	1657407	Kit-Adjuster	1
	1657409	Kit-Brake Backplate (LH)	1
	1657410	Kit-Brake Backplate (RH)	1
	1657406	Kit-Repair Wheel Cylinder	1
	1657405	Kit-Brake Shoe (RH)	1
	1657404	Kit-Brake Shoe (LH)	1
	1657408	Kit-Spring	1

BRAKE BOOSTER (FIGURE 7-7)

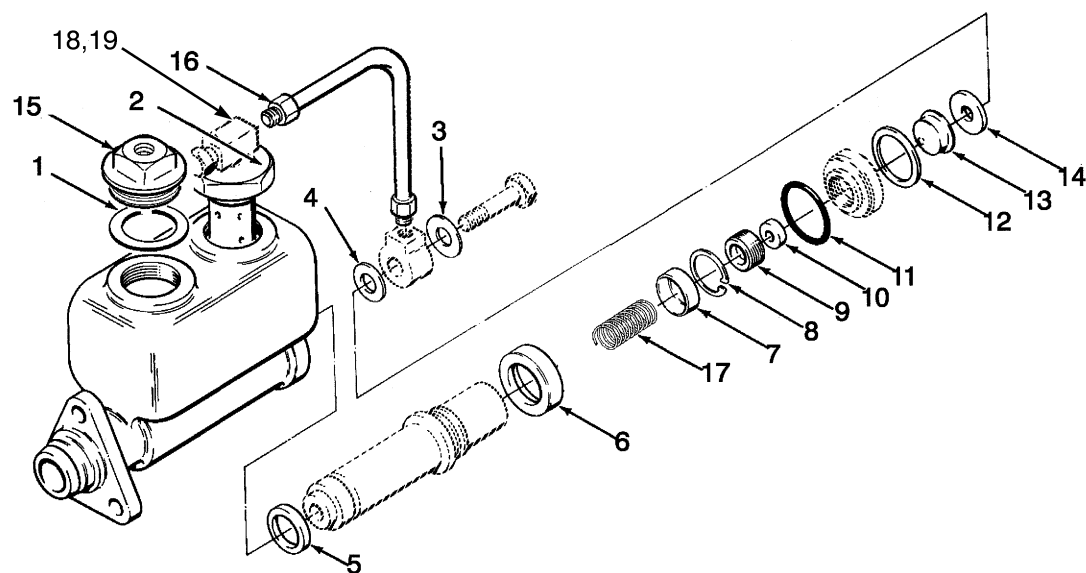


HP040069

ITEM	PART NO.	DESCRIPTION	QTY

ITEM	PART NO.	DESCRIPTION	QTY
	379238	Brake Booster	1
1		Cover	1
2		Cup	2
3		O-Ring	1
4		Piston Ring	1
5		O-Ring	1
	319144	Kit-Repair Brake Booster	1

MASTER CYLINDER (FIGURE 7-8)



HP040380

MASTER CYLINDER

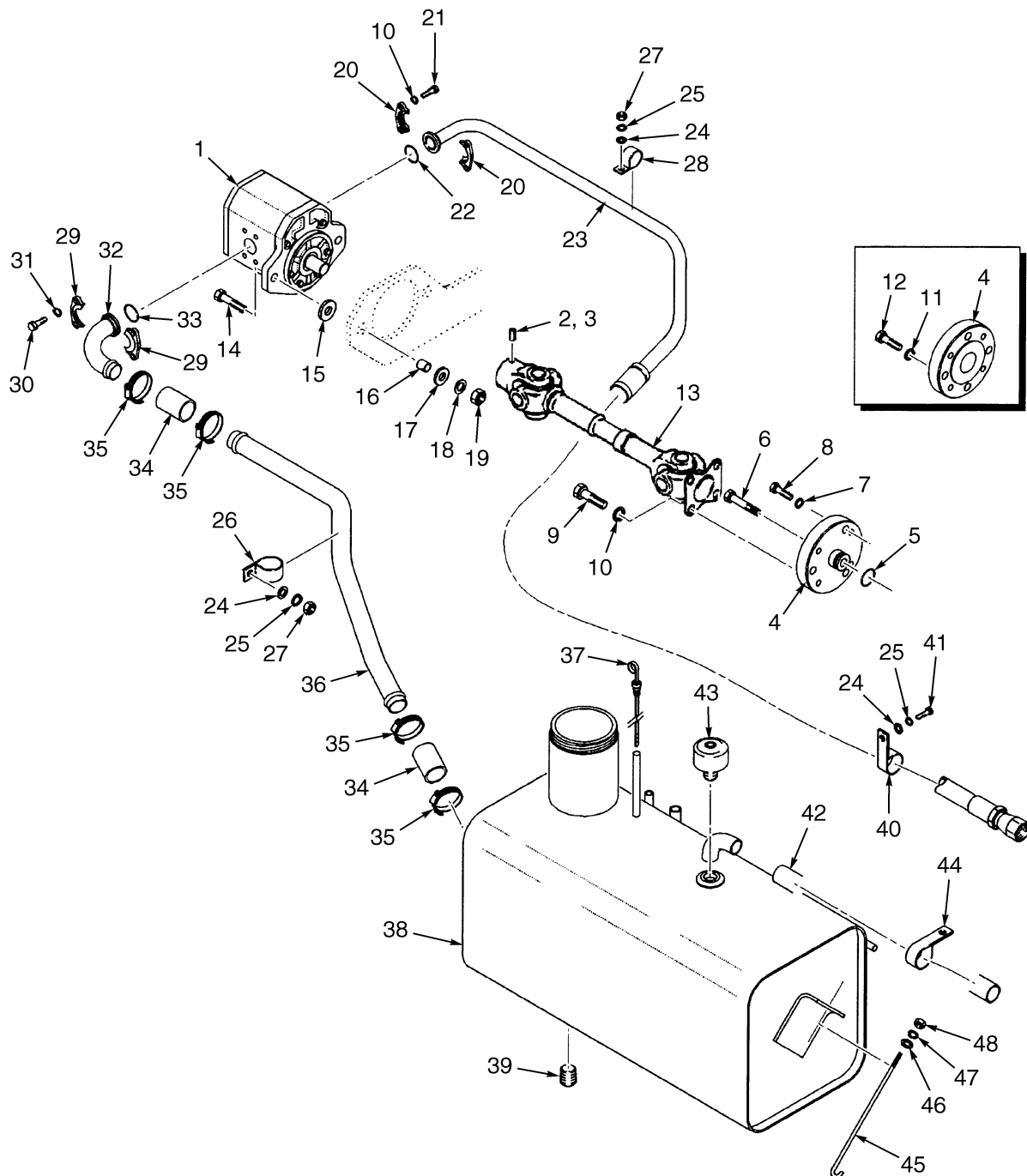
ITEM	PART NO.	DESCRIPTION	QTY
	1347574	Master Cylinder	1
1		Gasket	1
2	319148	Relief Valve	1
3		Gasket	1
4		Gasket	1
5		Cup	1
6		Cup	1
7		Cup	1
8		Retaining Ring	1
9		Retainer	1
10		Seat	1
11		O-Ring	1
12		Seal	1
13		Check Valve	1
14		Valve Seat	1
15	278063	Plug	1
16	278060	Tube Assy	1
17	70226	Spring	1
	1347573	Kit-Repair Master Cylinder	1

[illegible]

**SECTION 8
HYDRAULIC SYSTEM**

DESCRIPTION	PAGE
CONTROL VALVE	
FOUR FUNCTION	8-16
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CONTROL VALVE ATTACHING PARTS WITH FITTINGS	
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HYDRAULIC SYSTEM (FIGURE 8-1)

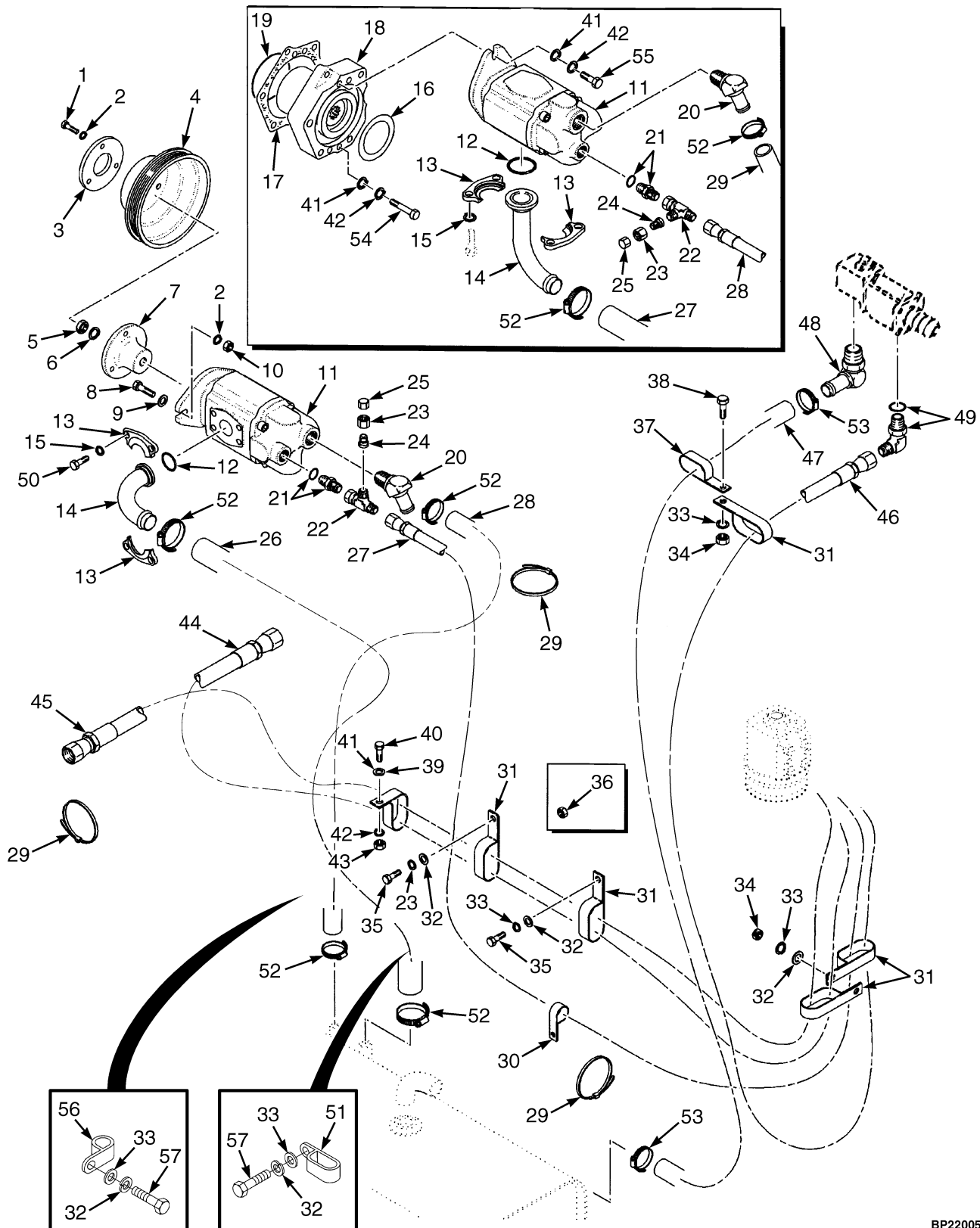


YP150250

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	1367711	Hydraulic Pump (☞Figure 8-11).....	1
2	18886	Setscrew	1
3	246108	Sealant	AR
4	1378948	Plate (Gasoline and LPG)	1
4	350054	Adapter (Diesel)	1
5	39373	O-Ring	1
6	221547	Capscrew	1
7	177947	Lockwasher	3
8	34811	Screw	3
9	34811	Screw	4
10	15156	Lockwasher	8
11	177948	Lockwasher	4
12	35116	Capscrew	4
13	340218	Drive Shaft (Gasoline and LPG) (☞Figure 8-13).....	1
13	350055	Drive Shaft (Diesel) (☞Figure 8-13).....	1
14	292529	Capscrew	2
15	182889	Mount	1
16	182891	Hose	1
17	182890	Washer	2
18	320162	Washer	2
19	300937	Nut	2
20	190757	Clamp (Split Half)	2
21	16828	Capscrew	4
22	15866	O-Ring	1
23	350079	Tube Assy	1
24	320157	Washer	4
25	292681	Lockwasher	4
26	181899	Clamp	1
27	239503	Nut	2
28	173247	Clamp	1
29	17765	Clamp	2
30	18588	Capscrew	4
31	15158	Washer	4
32	222588	Fitting	1
33	92861	O-Ring	1
34	173685	Collar	2
35	119236	Clamp	4
36	377346	Tube Assy	1
37	350099	Dipstick	1
38	1474964	Hydraulic Tank (☞Figure 8-4).....	1
39	15962	Fitting	1
40	166112	Clamp	2
41	18496	Capscrew	2
42	96481	Hose	1
43	353302	Breather	1
44	313221	Clamp	1
45	345881	Link	2
46	15175	Lockwasher	2
47	15155	Lockwasher	2
48	221705	Nut	2

STEERING HYDRAULIC (FIGURE 8-2)



BP220053

STEERING HYDRAULIC**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	16634	Capscrew	3	..
2	15156	Lockwasher	5	..
3	1462305	Plate	1	..
4	1459843	Pulley	1	..
5	1461876	Nut	1	..
6	292683	Lockwasher	1	..
7	1459838	Adapter	1	..
8	16815	Capscrew	2	..
9	221767	Washer	4	..
10	15056	Nut	2	..
11	2036997	Pump (Figure 6-4).....	1	..
11	2036998	Pump (Figure 6-4).....	..	1
12	15866	O-Ring	1	1
13	190757	Clamp (Split Half)	2	2
14	222580	Fitting	1	1
15	293781	Lockwasher	4	4
16	1471345	Gasket	..	1
17	1329660	Gasket	..	1
18	1462995	Adapter	..	1
18	280472	Sealant	AR	AR
19	1311603	O-Ring	1	1
20	222504	Fitting	1	1
20	16485	O-Ring	1	1
21	16541	Fitting	1	..
21	16484	O-Ring	1	..
21	16568	Fitting	..	1
21	16484	O-Ring	..	1
22	17062	Fitting	1	1
23	17319	Sleeve	1	1
24	17777	Fitting	1	1
25	16923	Nut	1	1
26	1470400	Hose (Gasoline and LPG)	1	..
26	114371	Hose (Diesel)	..	1
27	1312741	Hose Assy (Gasoline and LPG)	1	..
27	1312740	Hose Assy (Diesel)	..	1
28	139919	Hose (Gasoline and LPG)	1	..
28	125792	Hose (Diesel)	..	1
29	129563	Strap Clamp	4	4
30	198678	Clamp	1	1
31	129684	Clamp	5	5
32	320157	Washer	4	4
33	292681	Lockwasher	5	5
34	239503	Nut	2	2
35	18497	Capscrew	2	2
36	15055	Nut	2	..
37	313221	Clamp	1	1

STEERING HYDRAULIC

KEY:
A: Gasoline and LPG

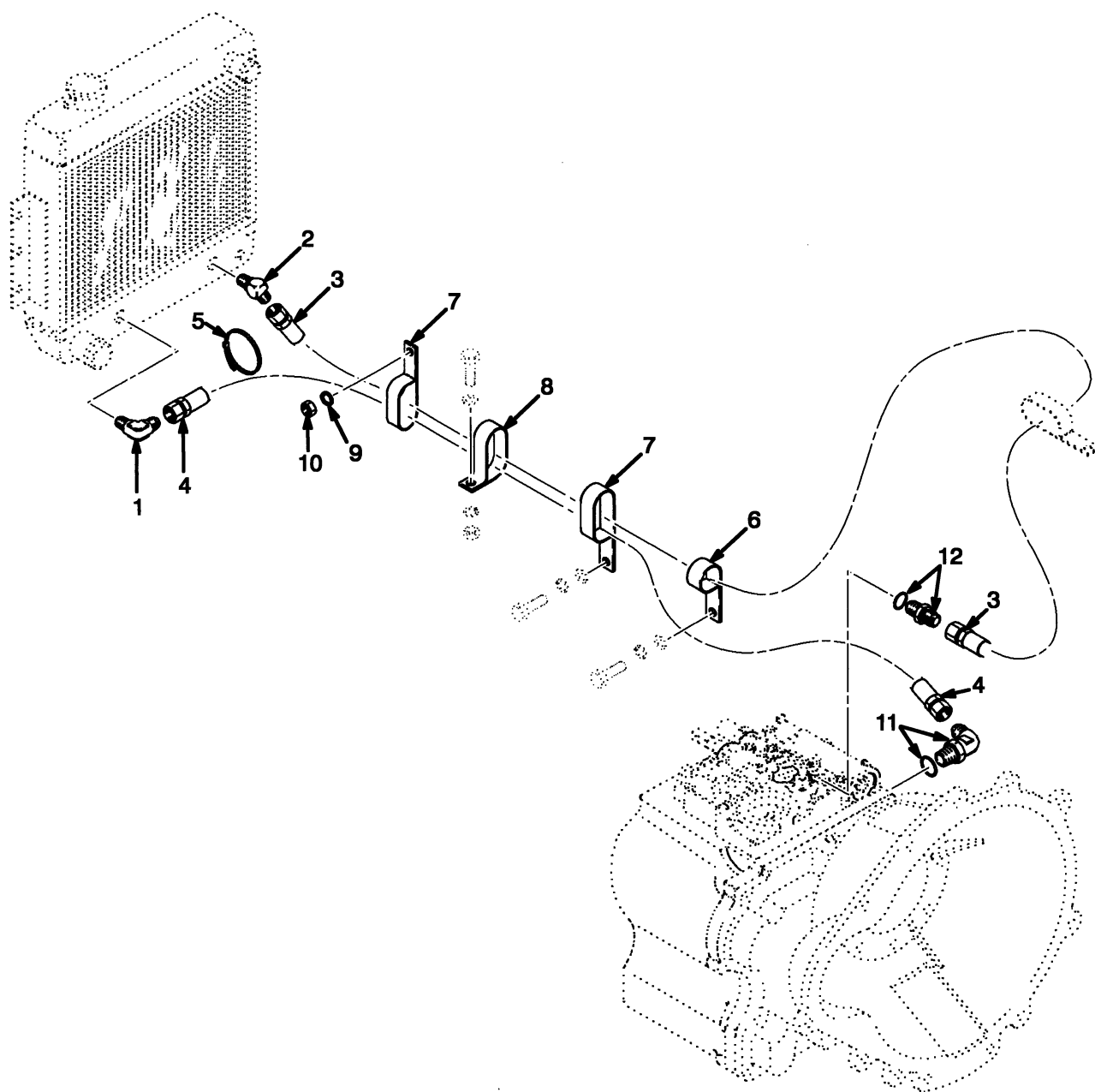
B: Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
38	136749	Screw	1	1
39	1326653	Clamp	1	1
40	287854	Capscrew	1	..
41	320159	Washer	2	4
42	292682	Lockwasher	2	2
43	136692	Nut	1	..
44	1311014	Hose Assy	1	1
45	1311015	Hose Assy	1	1
46	1312742	Hose Assy	1	1
47	96481	Hose	1	1
48	222512	Fitting	1	1
48	16485	O-Ring	1	1
49	222400	Fitting	1	1
49	16485	O-Ring	1	1
50	1495729	Capscrew	4	4
51	1326652	Clamp	1	1
52	127045	Clamp (Hose)	4	4
53	369804	Clamp	2	2
54	1307910	Capscrew	..	1
55	1307915	Capscrew	..	1
56	398074	Clamp	1	1
59	1528482	Capscrew	1	1
60	1320691	Spacer	1	1

NOTES

[illegible]

TRANSMISSION COOLING (FIGURE 8-3)

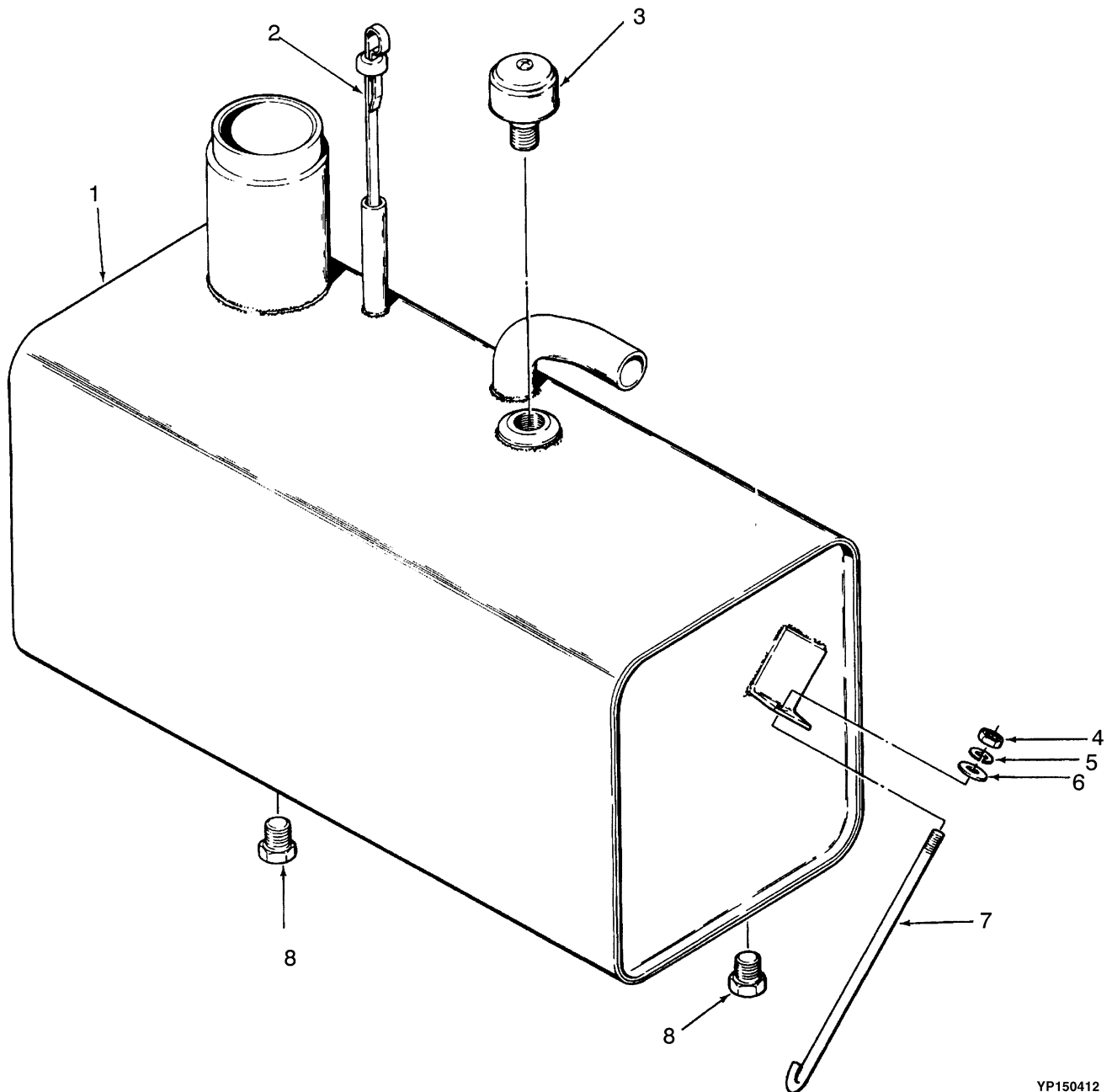


HP150131

TRANSMISSION COOLING**KEY:****A: Gasoline and LPG****B: Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	66885	Fitting	1	1
2	66997	Fitting	1	1
3	1326651	Hose Assy	1	1
4	1326927	Hose Assy	1	1
5	129563	Strap Clamp	1	1
6	198678	Clamp	1	1
7	251994	Clamp	2	2
8	1326652	Clamp	1	1
9	292681	Lockwasher	1	1
10	239503	Nut	1	1
11	16542	Connector	1	1
11	16485	O-Ring	1	1
12	16569	Fitting	1	1
12	16485	O-Ring	1	1

HYDRAULIC TANK (FIGURE 8-4)

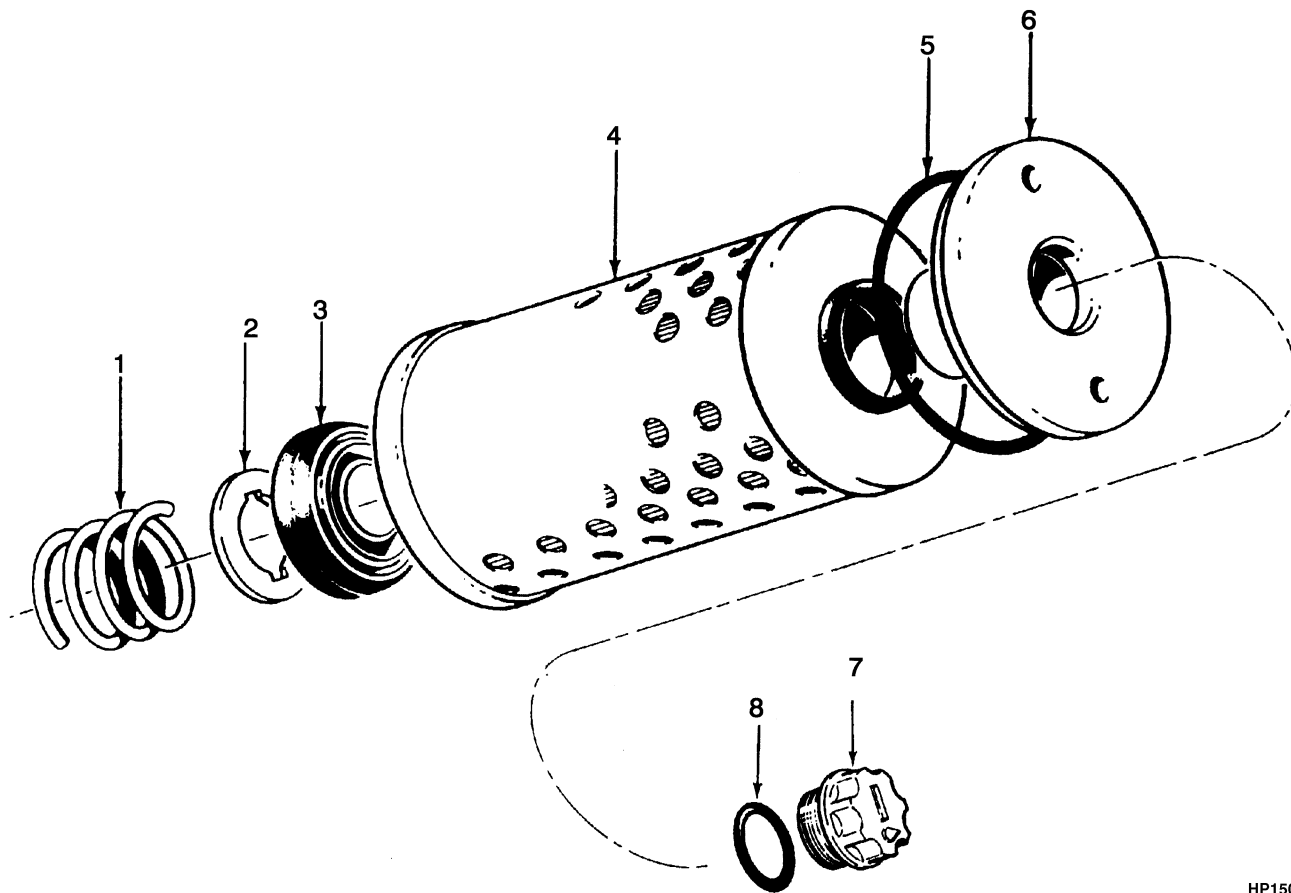


YP150412

HYDRAULIC TANK

ITEM	PART NO.	DESCRIPTION	QTY
1	1474964	Hydraulic Tank	
2	350099	Dipstick	1
3	353302	Breather	1
4	221705	Nut	2
5	15155	Lockwasher	2
6	15175	Lockwasher	2
7	345881	Link	2
8	15962	Fitting	2

HYDRAULIC OIL FILTER (FIGURE 8-5)



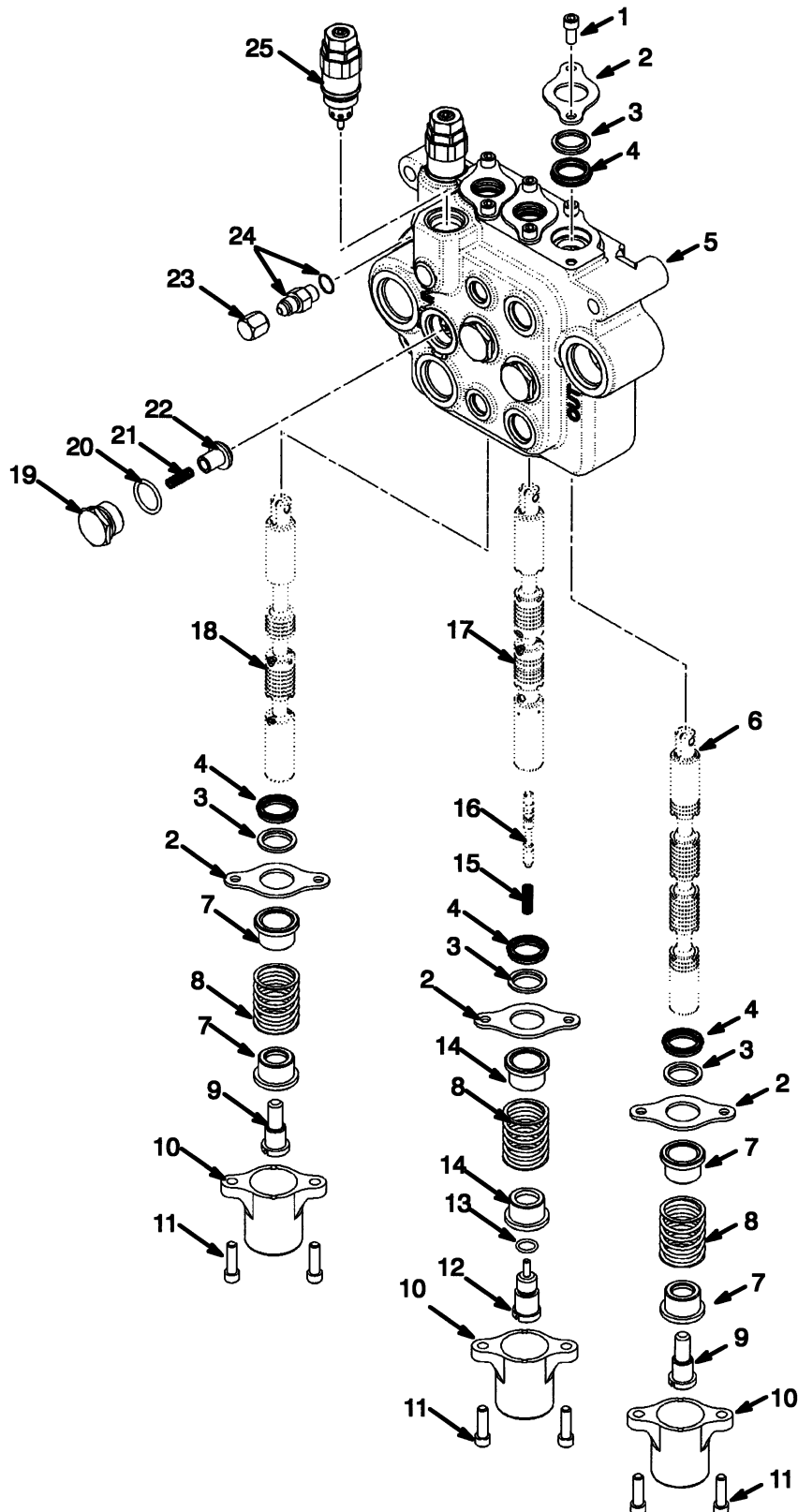
HP150134

ITEM	PART NO.	DESCRIPTION	QTY
1	190784	Spring	1
2	190785	Washer	1
3	181941	Seal	1
4	190786	Hydraulic Filter	1
5	39742	O-Ring	1
6	190787	Filter Head	1
7	218612	Cap	1
8	16487	O-Ring	1

NOTES

[illegible]

CONTROL VALVE (FIGURE 8-6) TWO AND THREE FUNCTION

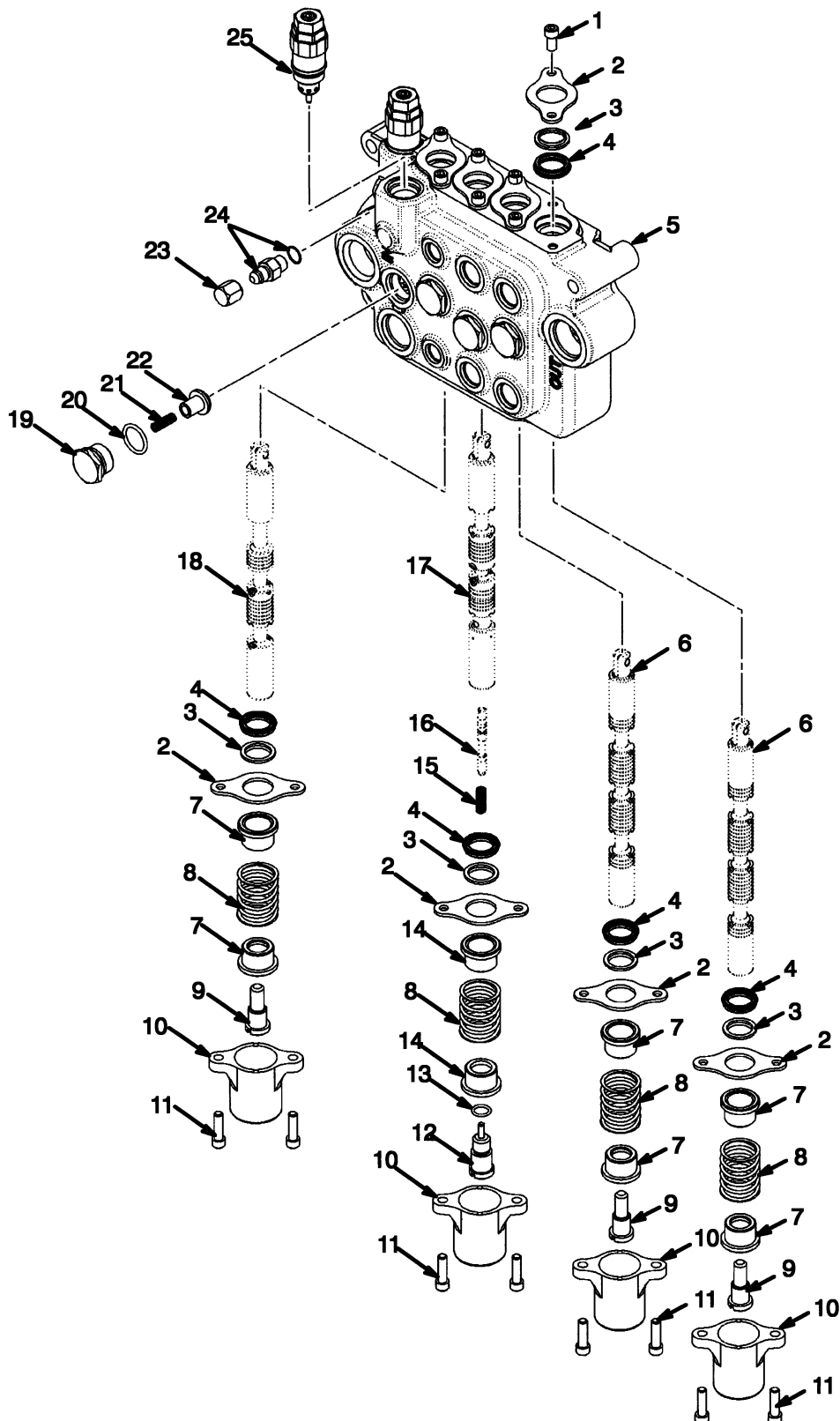


HP150141

**CONTROL VALVE
TWO AND THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	2038290	Valve	1
1	16632	Bolt	6
2	77451	Plate	6
3	1393703	Wiper	6
4	1393704	Seal	6
5		Housing	1
6		Spool (Lift)	1
7	274427	Spring Seat	4
8	300723	Spring	3
9	274548	Capscrew	2
10	274426	Cap	3
11	16328	Capscrew	6
12	304006	Capscrew	1
13	16482	O-Ring	1
14	300724	Spring Seat	2
15	304002	Spring	1
16		Piston	1
17		Spool	1
18		Spool	1
19	77441	Plug	3
20	16485	O-Ring	3
21	77442	Spring	3
22	77443	Poppet	3
23	16923	Nut	1
24	16538	Connector	1
24	16481	O-Ring	1
25	378424	Relief Valve	2
25	1309419	Kit-Seal	1

CONTROL VALVE (FIGURE 8-7) FOUR FUNCTION

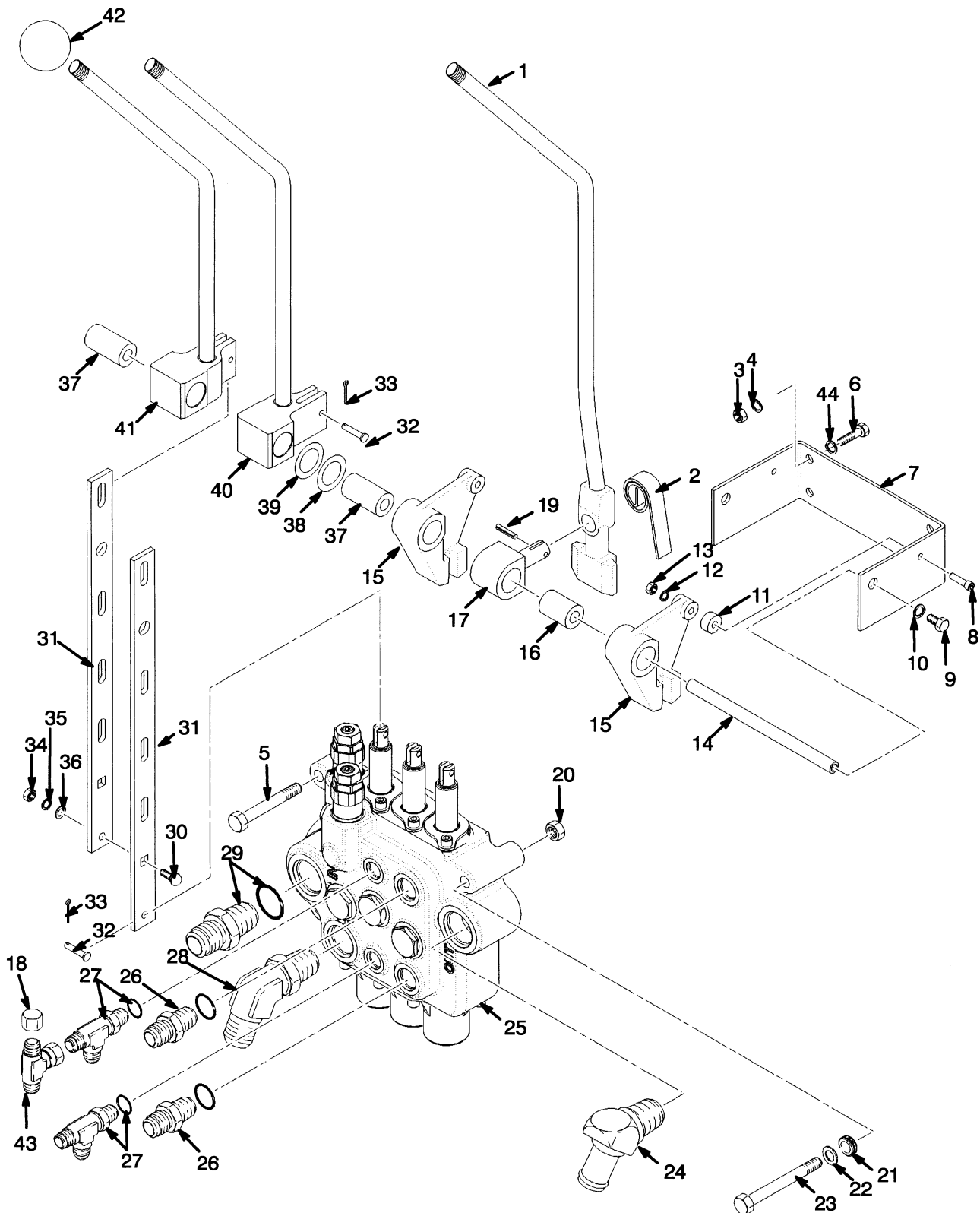


HP150142

**CONTROL VALVE
FOUR FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
	2038291	Valve	1
1	16632	Bolt	8
2	77451	Plate	8
3	1393703	Wiper	8
4	1393704	Seal	8
5		Housing	1
6		Spool (Lift)	2
7	274427	Spring Seat	6
8	300723	Spring	4
9	274548	Capscrew	3
10	274426	Cap	4
11	16328	Capscrew	8
12	304006	Capscrew	1
13	16482	O-Ring	1
14	300724	Spring Seat	2
15	304002	Spring	1
16		Piston	1
17		Spool	1
18		Spool	1
19	77441	Plug	4
20	16485	O-Ring	4
21	77442	Spring	4
22	77443	Poppet	4
23	16923	Nut	1
24	16538	Connector	1
24	16481	O-Ring	1
25	378424	Relief Valve	2
25	1309419	Kit-Seal	1

CONTROL VALVE ATTACHING PARTS WITH FITTINGS (FIGURE 8-8) TWO AND THREE FUNCTION



HP150897

**CONTROL VALVE ATTACHING PARTS WITH FITTINGS
TWO AND THREE FUNCTION****KEY:****A: Two Function****B: Three Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	306117	Lever	..	1
2	175861	Spring	..	1
3	136687	Nut	4	4
4	292680	Washer	4	4
5	292521	Capscrew	2	2
6	292501	Capscrew	4	4
7	1309491	Bracket	1	1
8	18085	Capscrew	..	1
9	1328930	Capscrew	2	2
10	292681	Lockwasher	2	2
11	306118	Spacer	..	1
12	15163	Lockwasher	..	1
13	230881	Locknut	..	1
14	1305174	Shaft	1	1
15	306111	Lever	..	2
16	1328697	Bushing	..	3
17	306113	Pin (Selector)	..	1
18	16693	Nut	1	1
19	302428	Roll Pin	1	1
20	316826	Nut	3	3
21	91946	Grommet	3	3
22	320160	Washer	3	3
23	292524	Capscrew	1	1
24	1478715	Fitting	1	1
25	2038290	Valve (☞ Figure 8-6).....	1	1
26	16541	Fitting	..	2
26	16484	O-Ring	..	1
27	16969	T-Fitting	2	2
27	16483	O-Ring	1	1
28	16570	Fitting	1	1
28	16486	O-Ring	1	1
29	16954	Connector	1	1
29	16982	O-Ring	1	1
30	15937	Bolt	4	6
31	325729	Plate	4	6
32	309109	Pin	4	6
33	15200	Cotter Pin	4	6
34	15054	Nut	4	6
35	15154	Lockwasher	4	6
36	15127	Washer	4	6
37	1328698	Bushing	2	2
38	1309479	Shim (0.020 in.)	..	6
39	1328696	Shim (0.010 in.)	..	AR
40	1324352	Lever (Tilt)	1	1
41	1324350	Lever (Hoist)	1	1

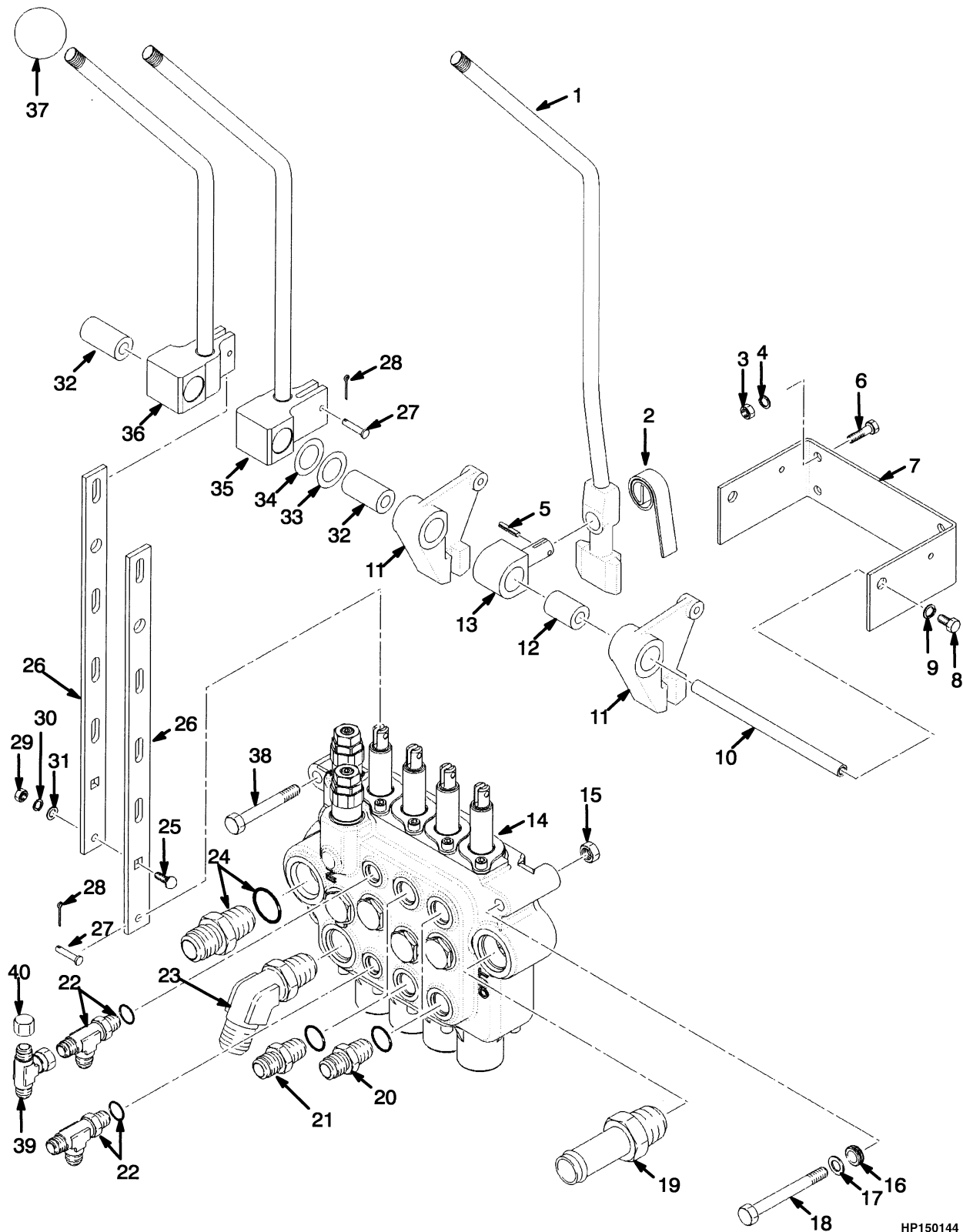
**CONTROL VALVE ATTACHING PARTS WITH FITTINGS
TWO AND THREE FUNCTION****KEY:****A: Two Function****B: Three Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
42	308993	Knob	2	3
43	17049	Fitting	1	1
44	320156	Washer	4	4

NOTES

[illegible]

CONTROL VALVE ATTACHING PARTS WITH FITTINGS (FIGURE 8-9) FOUR FUNCTION

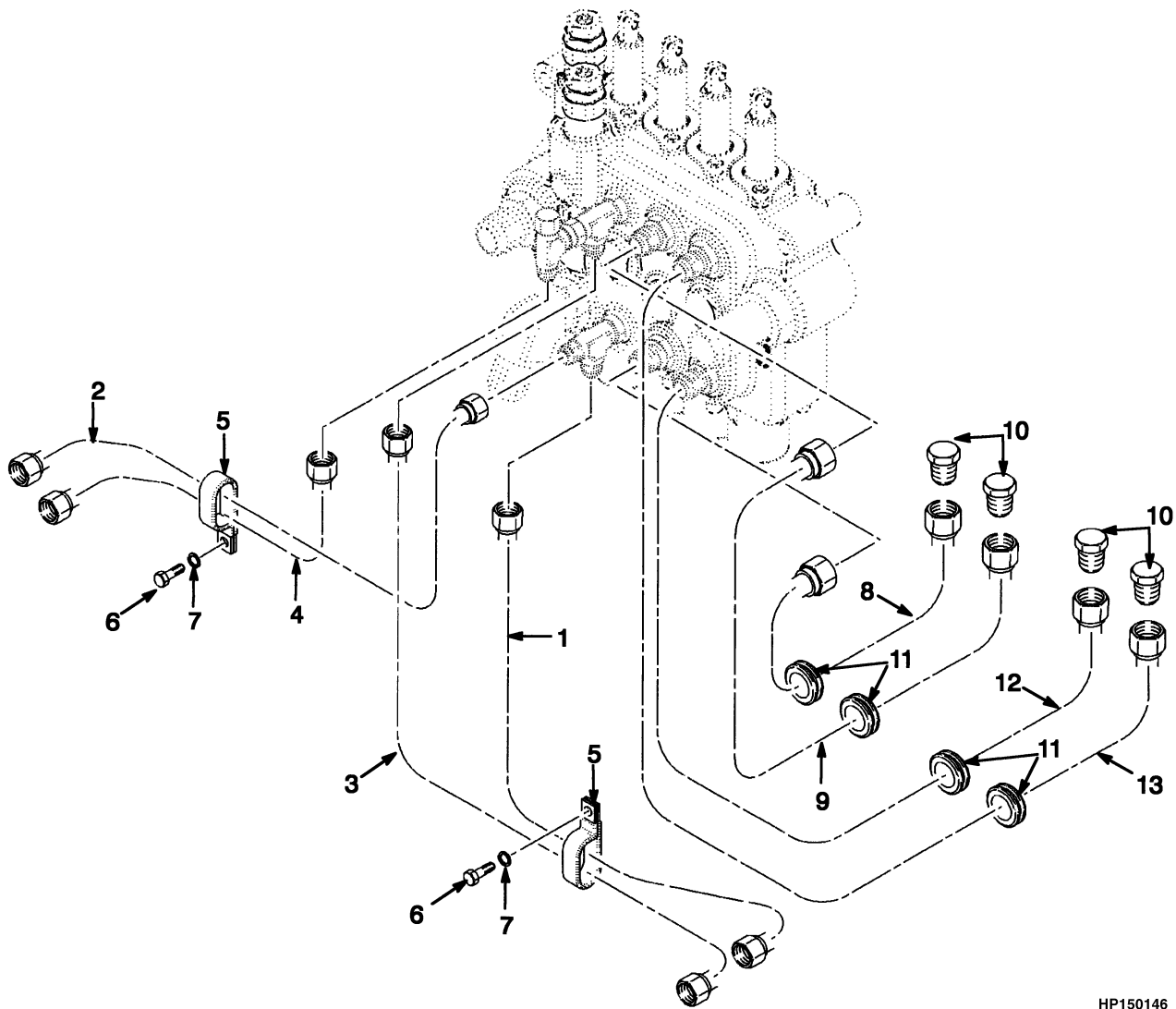


HP150144

**CONTROL VALVE ATTACHING PARTS WITH FITTINGS
FOUR FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	306117	Lever	1
2	175861	Spring	1
3	136687	Nut	4
4	292680	Washer	4
5	302428	Roll Pin	1
6	292501	Capscrew	4
7	1309491	Bracket	1
7	320156	Washer	4
8	1328930	Capscrew	2
9	292681	Lockwasher	2
10	1305174	Shaft	1
11	306111	Lever	2
12	1328697	Bushing	3
13	306113	Pin (Selector)	1
14	2038291	Valve (☞ Figure 8-7).....	1
15	316826	Nut	3
16	91946	Grommet	3
17	320160	Washer	3
18	292524	Capscrew	1
19	1478700	Fitting	1
20	16541	Fitting	2
20	16484	O-Ring	1
21	16541	Fitting	2
21	16484	O-Ring	1
22	16969	T-Fitting	2
22	16483	O-Ring	1
23	16570	Fitting	1
23	16486	O-Ring	1
24	16954	Connector	1
24	16982	O-Ring	1
25	15937	Bolt	8
26	325729	Plate	8
27	309109	Pin	8
28	15200	Cotter Pin	8
29	15054	Nut	8
30	15154	Lockwasher	8
31	15127	Washer	8
32	1328698	Bushing	2
33	1309479	Shim (0.020 in.)	6
34	1328696	Shim (0.010 in.)	AR
35	1324352	Lever (Tilt)	1
36	1324350	Lever (Hoist)	1
37	308993	Knob	3
38	292521	Capscrew	2
39	17049	Fitting	1
40	16693	Nut	1

CONTROL VALVE ATTACHING TUBES (FIGURE 8-10)

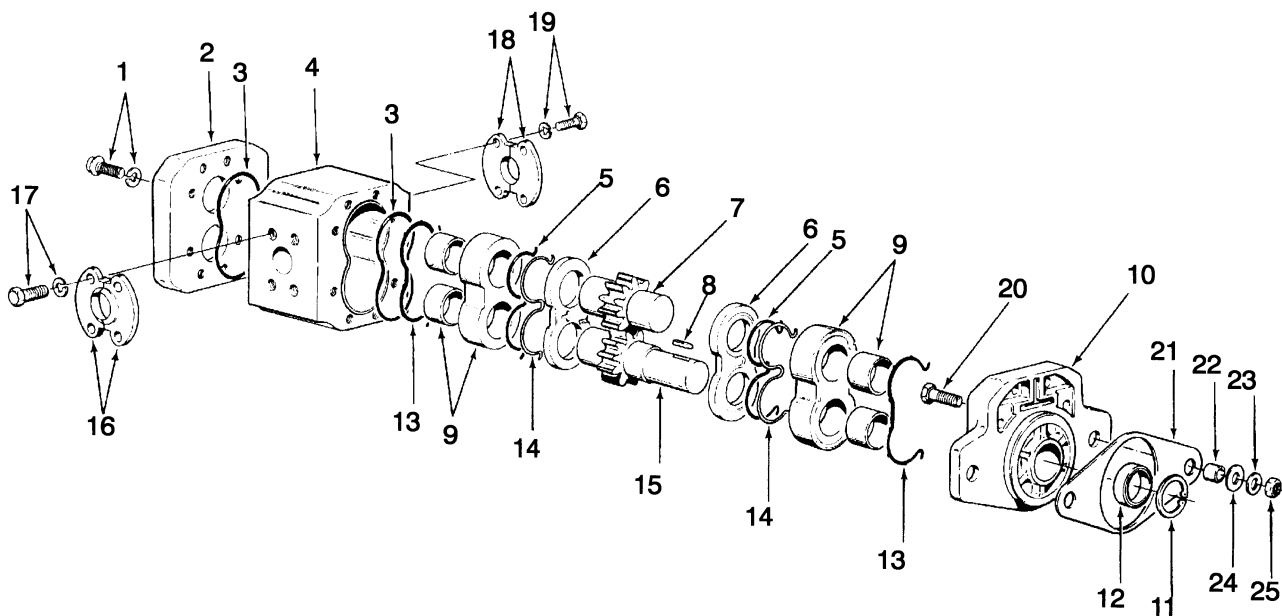


HP150146

CONTROL VALVE ATTACHING TUBES**KEY:****A: Two and Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	369552	Tube Assy	1	1
2	369556	Tube Assy	1	1
3	369555	Tube Assy	1	1
4	369557	Tube Assy	1	1
5	133203	Clamp	2	2
6	287851	Capscrew	2	2
7	292681	Lockwasher	2	2
8	377613	Tube Assy	2	1
9	377614	Tube Assy	2	1
10	17321	Fitting	2	4
11	339969	Grommet	2	4
12	369549	Tube Assy	..	1
13	369550	Tube Assy	..	1

HYDRAULIC PUMP (FIGURE 8-11)

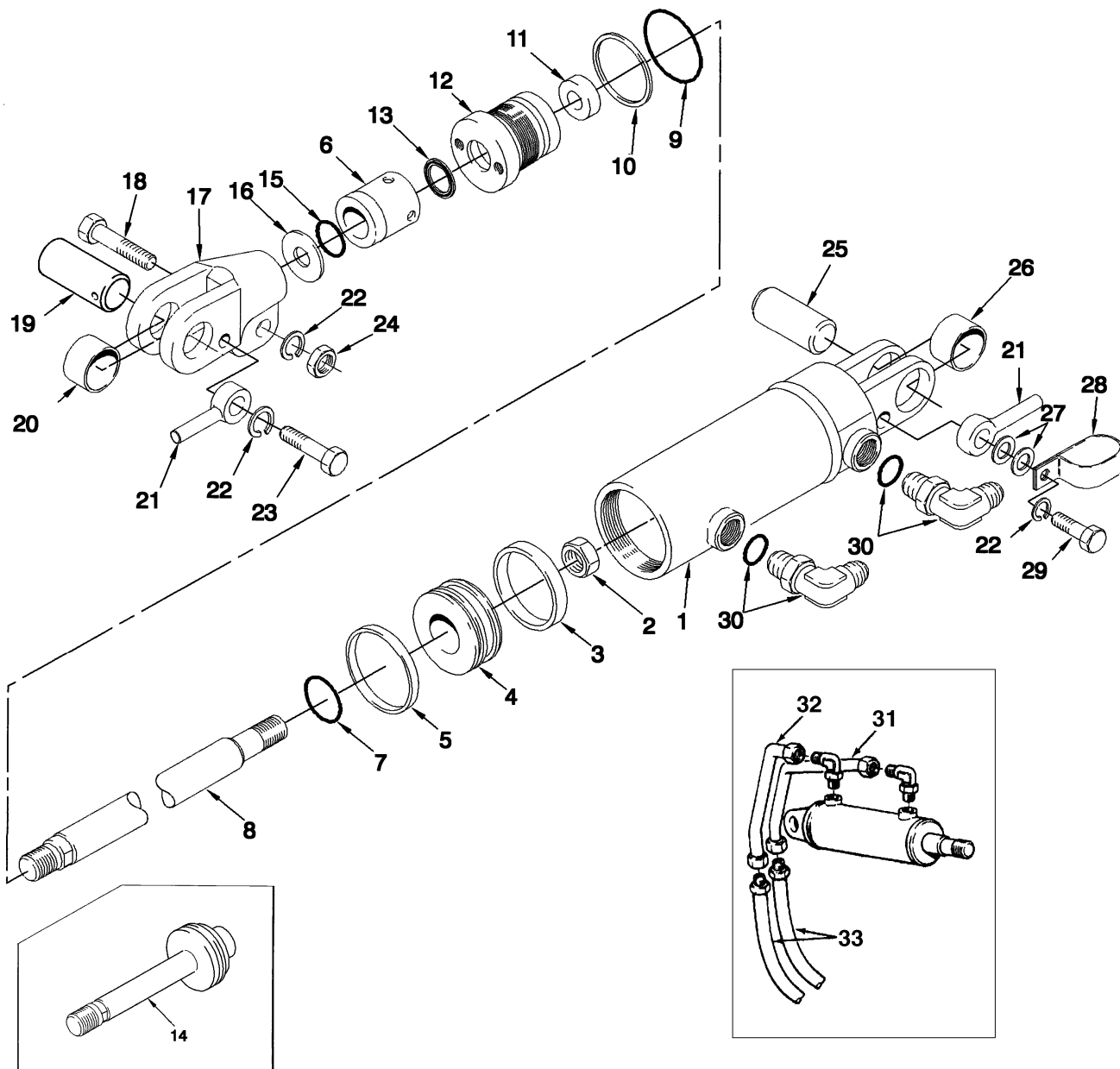


HP150895

HYDRAULIC PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	1367711	Hydraulic Pump	1
1		Bolt	8
1		Washer	8
2		Cover	1
3		Sealing Ring	2
4		Body	1
5		Ring	2
6		Plate	2
7		Driven Gear	1
8		Key	1
9		Bearing	2
10		Flange	1
11		Snap Ring	1
12		Seal	1
13		Ring	2
14		Ring	2
15		Drive Gear	1
16	17765	Clamp	2
17	15158	Washer	4
17	18588	Capscrew	4
18	190757	Clamp (Split Half)	2
19	15156	Lockwasher	4
19	16828	Capscrew	4
20	292529	Capscrew	2
21	182889	Mount	1
22	182891	Hose	2
23	320162	Washer	2
24	182890	Washer	2
25	300937	Nut	2
	1376881	Kit-Seal	1

TILT CYLINDER (FIGURE 8-12)



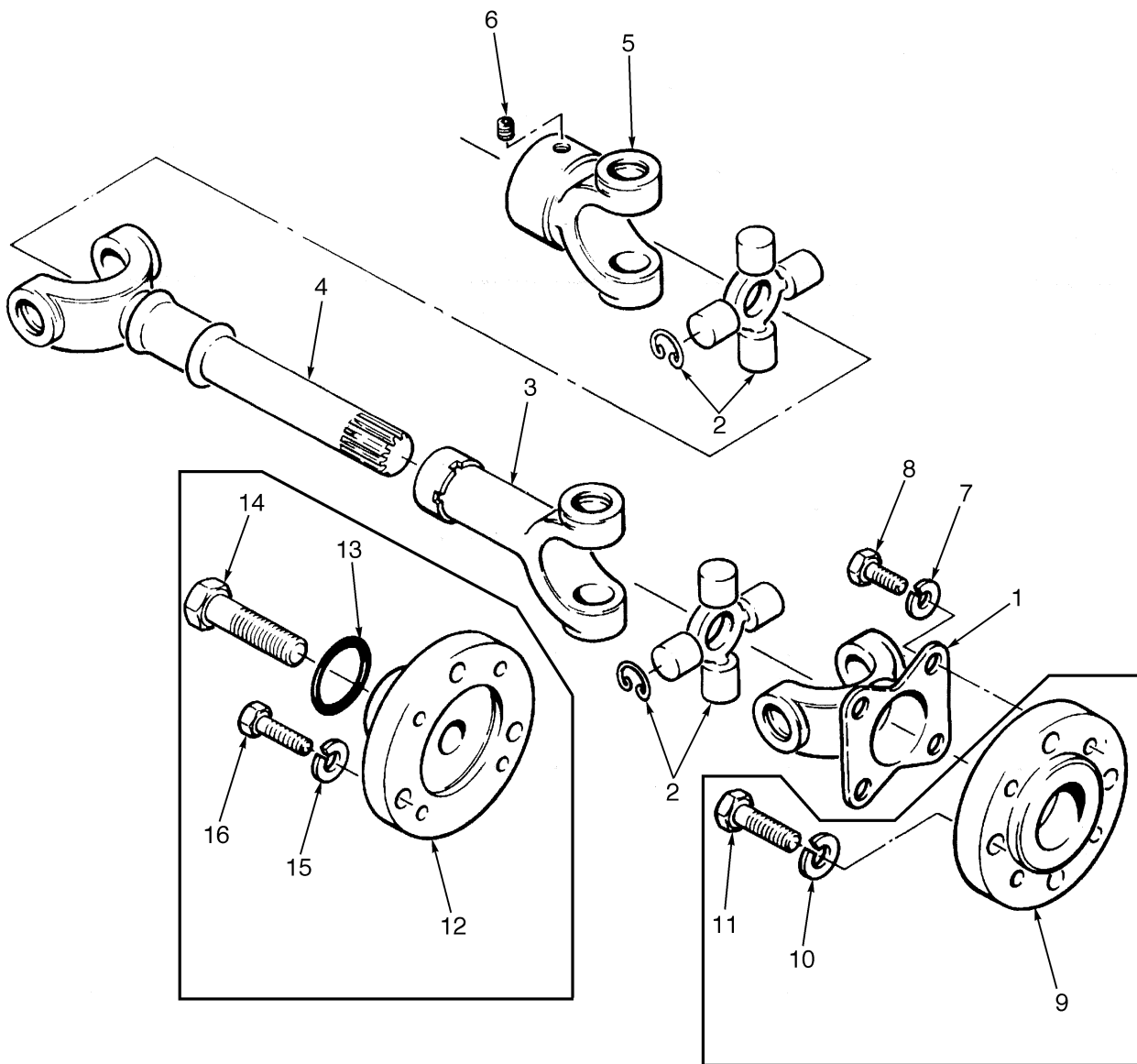
HP150887

TILT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2037392	Tilt Cylinder	2
1	2014714	Tube Wldmt-Cylinder	1
2	2036547	Locknut (Optional)	1
3	239182	Wear Ring	1
4	289968	Piston (Optional)	1
5	2044821	Piston Seal	1
6	a 358259	Spacer	2
7	199082	O-Ring	1
8	289967	Piston Rod (Optional)	1
9	92482	O-Ring	1
10	1329756	Back-Up Ring	1
11	1381085	Rod Seal	1
12	289969	End Plug	1
13	193554	Rod Wiper	1
14	387058	Piston Rod	1
15	a 15869	O-Ring	2
16	a 1344751	Shim (0.120 in.)	AR
16	a 192830	Shim (0.060 in.)	AR
17	248462	Rod End	2
18	18590	Capscrew	2
19	248465	Pin	2
20	192429	Bushing	1
21	241079	Anchor	4
22	15158	Washer	6
23	169268	Capscrew	2
24	221711	Nut	2
25	248461	Pin	2
26	192429	Bushing	1
27	15135	Washer	AR
28	178794	Clamp	2
29	246195	Capscrew	2
30	16558	Fitting	4
30	16483	O-Ring	1
31	340257	Tube Assy (LH Front) (LH)	1
31	357252	Tube Assy (RH Front) (RH)	1
32	340258	Tube Assy (LH Rear) (LH)	1
32	357253	Tube Assy (RH Rear) (RH)	1
33	340259	Hose Assy	4
	1494726	Kit-Seal	1

FOOTNOTES:**a** 5° Forward/6° Back

DRIVE SHAFT (FIGURE 8-13)



BP150066

DRIVE SHAFT**KEY:****A: Gasoline and LPG****B: Diesel**

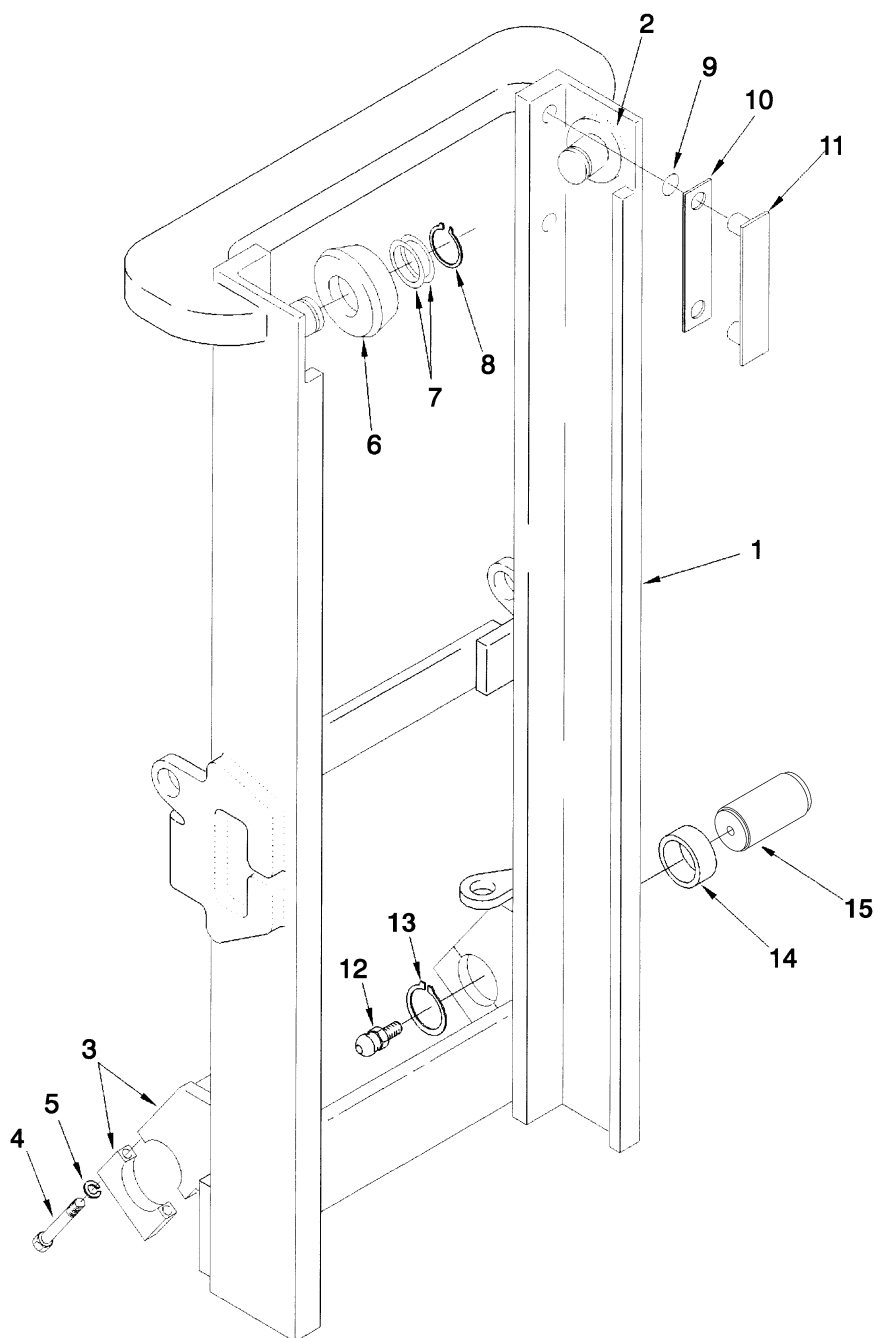
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	350055	Drive Shaft	..	1
	340218	Drive Shaft	1	..
1	53065	Flange	1	1
2	278085	Kit-Shaft and Bearing	2	2
3	1309409	Yoke	1	1
4		Yoke	1	1
5	1300301	Yoke End	1	1
6	18886	Setscrew	1	1
7	15156	Lockwasher	4	4
8	34811	Screw	4	4
9	350054	Adapter	..	1
10	177948	Lockwasher	..	4
11	35116	Capscrew	..	4
12	1378948	Plate	1	..
13	39373	O-Ring	1	..
14	221547	Capscrew	1	..
15	177947	Lockwasher	3	..
16	34811	Screw	3	..

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SECTION 9
MAST-TWO STAGE LIMITED FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
TWO STAGE LIMITED FREE-LIFT	9-10
HEADER HOSE	
TWO STAGE LIMITED FREE-LIFT	9-12
INNER MAST	
TWO STAGE LIMITED FREE-LIFT	9-4
LIFT	
TWO STAGE LIMITED FREE-LIFT	9-6
LIFT CYLINDER	
TWO STAGE LIMITED FREE-LIFT	9-8
OUTER MAST	
TWO STAGE LIMITED FREE-LIFT	9-2

OUTER MAST (FIGURE 9-1) TWO STAGE LIMITED FREE-LIFT



YP170085

**OUTER MAST
TWO STAGE LIMITED FREE-LIFT****A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
		A513 2340	A513 3340	A513 4340	A513 5340
	Mast Assy	2044486	2044487	2044488	2044489
1	Outer Mast	1493287	1493289	1493291	1493293

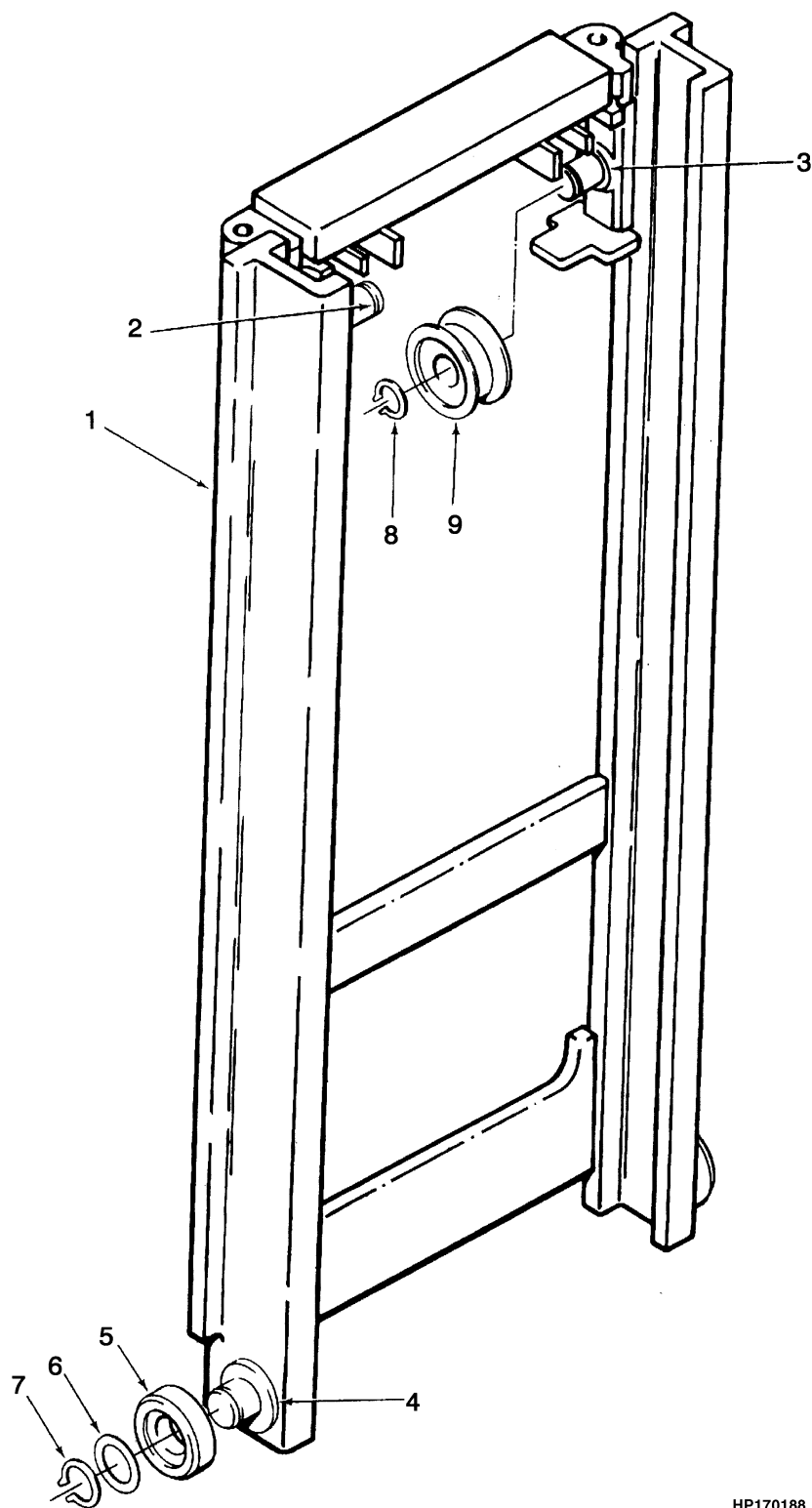
ITEM	PART NO.	DESCRIPTION	QTY
	c	Mast Assy	1
1	c	Outer Mast	1
2	341144	Stubshaft	2
3		Hanger	2
4	292570	Capscrew	2
5	292685	Lockwasher	2
6	a 1333649	Load Roller	2
7	126765	Shim (0.020 in.)	AR
8	187489	Snap Ring	2
9	104506	O-Ring	4
10	b 161272	Shim (0.007 in.)	AR
10	161273	Shim (0.020 in.) (0,51 mm)	AR
11	104264	Wear Strip	2
12	192429	Bushing	2
12	b 16009	Grease Fitting	2
13	1611580	Snap Ring	4
14	115069	Bushing	4
15	114841	Pin	2

FOOTNOTES:

- a** Letter on Inside Face
b Optional

- c** Refer to Table

INNER MAST (FIGURE 9-2) TWO STAGE LIMITED FREE-LIFT



HP170188

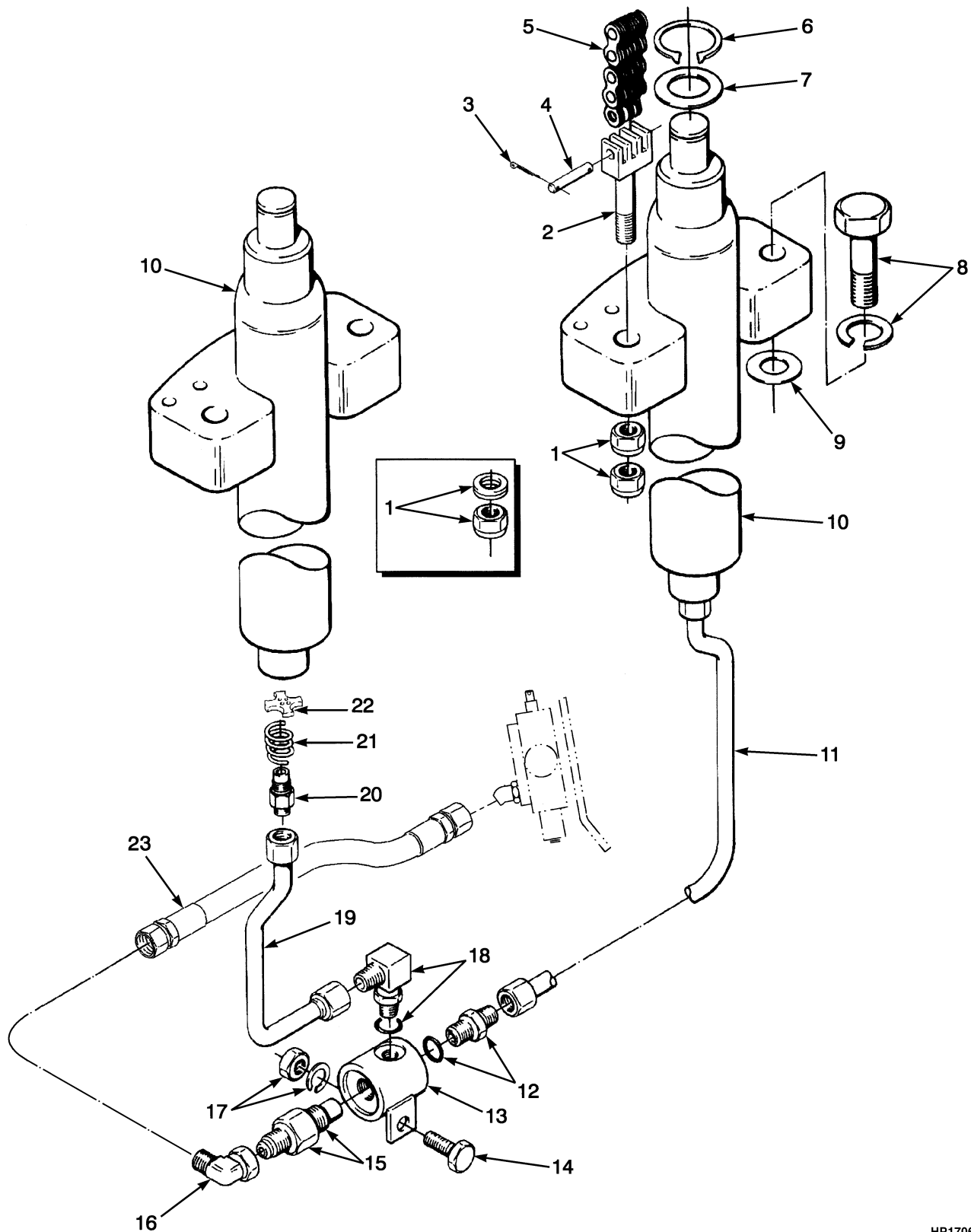
**INNER MAST
TWO STAGE LIMITED FREE-LIFT****A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Mast Assy	2044486	2044487	2044488	2044489
1	Inner Mast	341116	341117	341118	346961

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	369431	Stubshaft	1
3	369432	Stubshaft	1
4	341144	Stubshaft	2
5	a 1333649	Load Roller	2
6	126765	Shim (0.020 in.)	AR
7	187489	Snap Ring	2
8	58939	Snap Ring	2
9	346906	Chain Sheave	2

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

LIFT (FIGURE 9-3) TWO STAGE LIMITED FREE-LIFT



HP170619

LIFT
TWO STAGE LIMITED FREE-LIFT**A513**

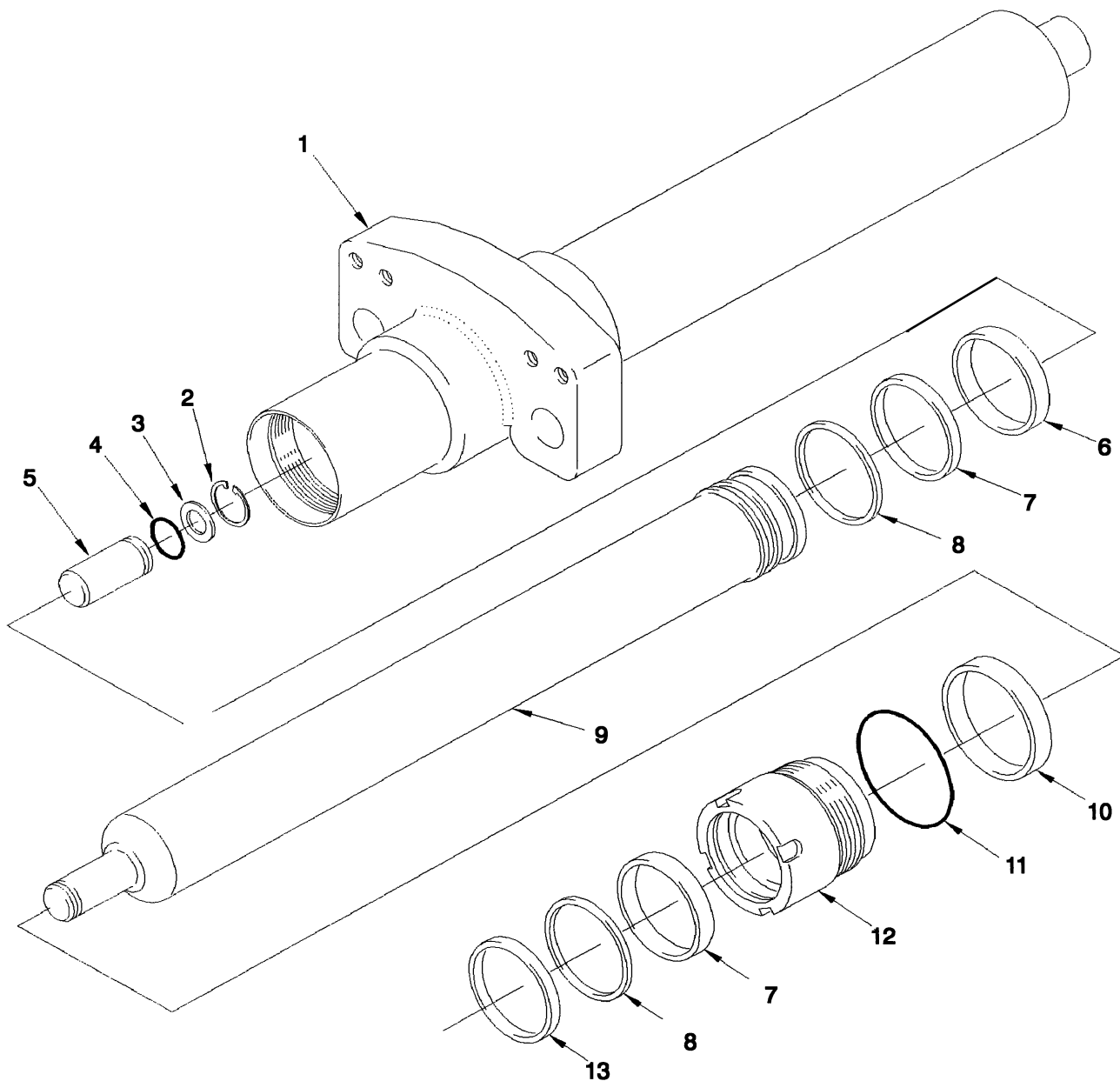
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
5	Chain	341122	341123	341124	341053

ITEM	PART NO.	DESCRIPTION	QTY
1	293723	Nut	4
1	343946	Kit-Washer	2
2	1331992	Chain Anchor	2
3	15222	Cotter Pin	4
4	1307395	Pin	2
5	a	Chain	2
6	304523	Snap Ring	2
7	296438	Washer	2
8	292608	Capscrew	2
8	292689	Washer	2
9	1325119	Shim	AR
9	134675	Shim	AR
10		Lift Cylinder (☞ Figure 9-4).....	2
11	1485325	Tube Assy (LH)	1
12	16542	Connector	1
12	16485	O-Ring	1
13	366501	Junction Block	1
14	292519	Capscrew	1
15	346971	Lowering Control Valve	1
15	16983	O-Ring	1
16	16992	Fitting	1
17	316826	Nut	1
17	320160	Washer	2
18	16560	Fitting	1
18	16485	O-Ring	1
19	1485324	Tube Assy	1
20	184799	Fitting	2
21	388186	Spring	2
22	356598	Washer	2
23	1485326	Hose Assy	1

FOOTNOTES:

a Refer to Table

LIFT CYLINDER (FIGURE 9-4) TWO STAGE LIMITED FREE-LIFT



HP170618

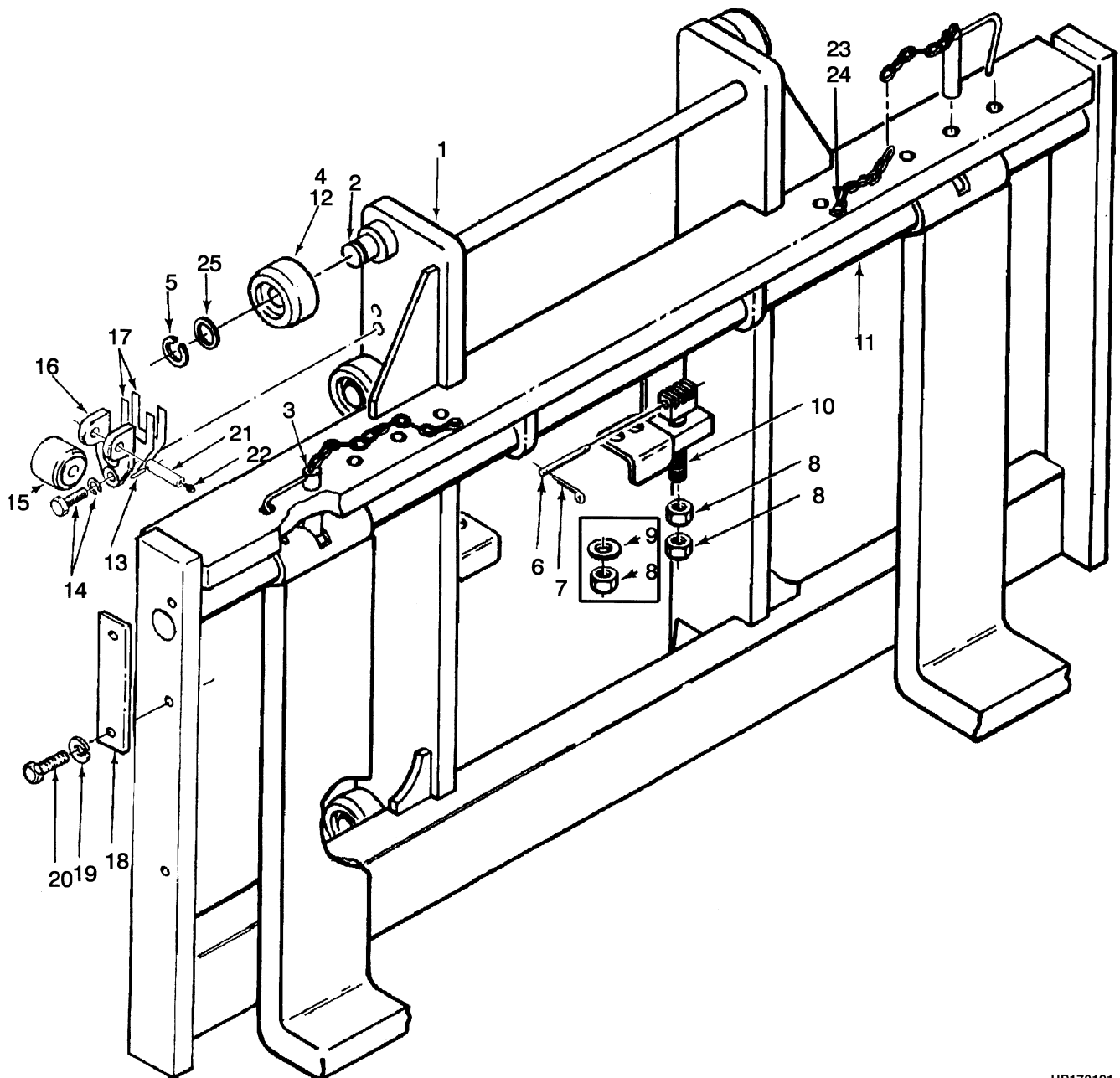
**LIFT CYLINDER
TWO STAGE LIMITED FREE-LIFT****A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
	Cylinder Group Number	8504261	8504262	8504263	8504264
	Cylinder Assy	1331994	1331995	1331996	1331997
1	Tube Wldmt- Cylinder	341331	341332	341333	346916
9	Cylinder Rod	341340	341341	341342	346917

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	2
1	a	Tube Wldmt-Cylinder	1
2	187388	Snap Ring	1
3	297531	Washer	1
3	637635	Washer (Optional)	1
4	39348	O-Ring	1
5	257913	Check Valve	1
6	215345	Wear Ring	1
7	309062	Rod Seal	2
8	637565	Back-Up Ring	2
9	a	Cylinder Rod	1
10	316513	Wear Ring	1
11	15880	O-Ring	1
12	1331993	Retainer	1
13	1314311	Rod Wiper	1
	1332017	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

CARRIAGE (FIGURE 9-5) TWO STAGE LIMITED FREE-LIFT



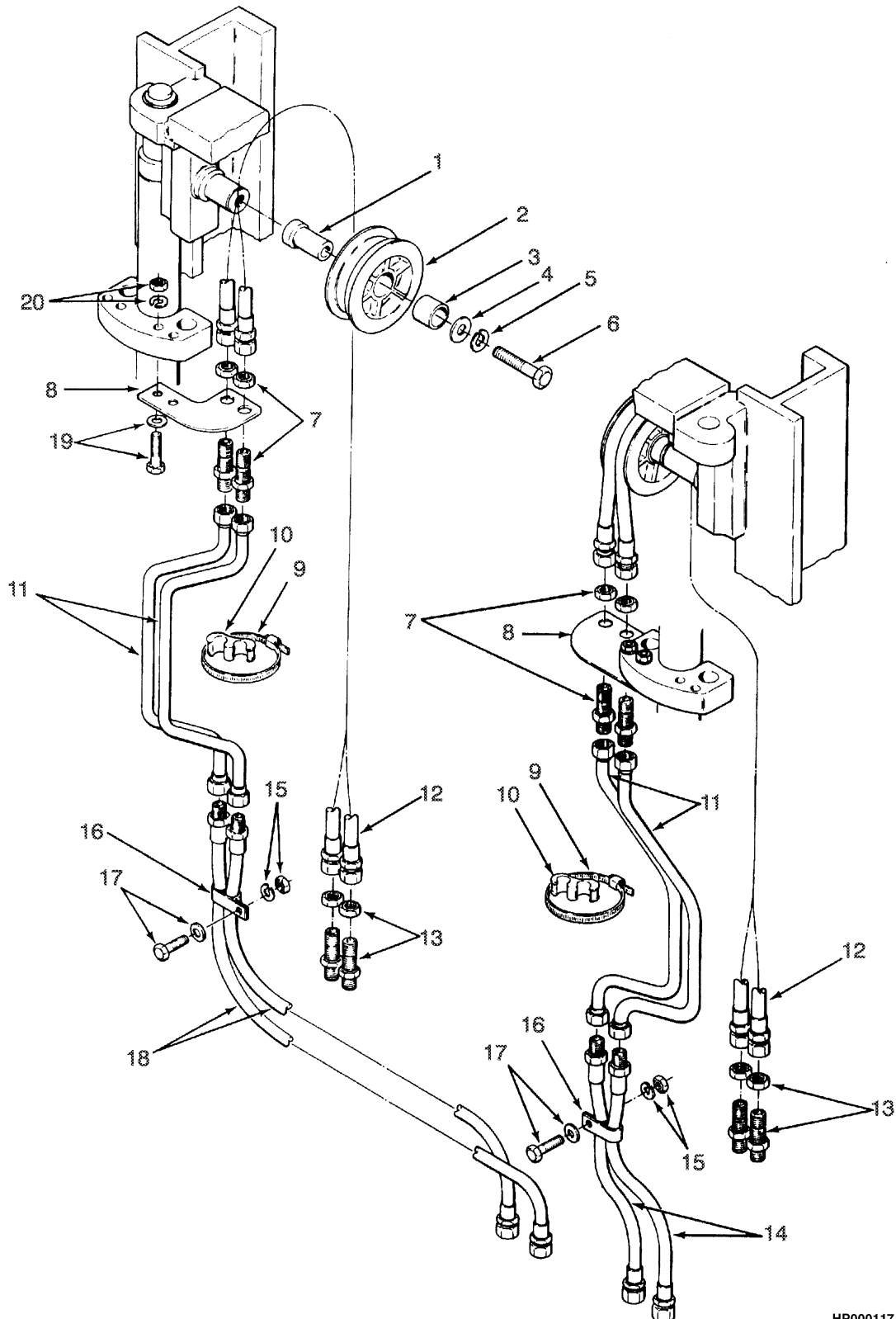
HP170191

CARRIAGE
TWO STAGE LIMITED FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	1318162	Carriage (78 in.)	1
1	1318167	Carriage Wldmt	1
2	341144	Stubshaft	6
3	1331269	Pin	2
4	126765	Shim (0.020 in.)	AR
5	187489	Snap Ring	6
6	1307395	Pin	2
7	15222	Cotter Pin	2
8	293723	Nut	4
9	343946	Kit-Washer	2
10	1331992	Chain Anchor	2
11	1330064	Pin	2
12	a 1333648	Load Roller (0.060 in.)	AR
13	b 66333	Roll Pin	2
14	b 292528	Capscrew	4
14	b 292683	Lockwasher	4
15	b 244005	Side Roller	2
16	b 244008	Bracket	2
17	b 192424	Shim (0.030 in.)	AR
17	b 192425	Shim (0.062 in.)	AR
18	66468	Plate	2
19	292685	Lockwasher	4
20	226458	Capscrew	4
21	b 244009	Pin	2
22	b 16001	Grease Fitting	2
23	292513	Capscrew	2
24	296420	Washer	2
25	366116	Spacer	2

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

HEADER HOSE (FIGURE 9-6) TWO STAGE LIMITED FREE-LIFT



HP000117

**HEADER HOSE
TWO STAGE LIMITED FREE-LIFT****A513**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
	Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
11	Tube Assy	341058	341059	341060	341061
12	Hose Assy	358261	358240	358262	341074

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	357529	Stubshaft	1	2
2	1332705	Hose Sheave	1	2
3	332057	Bushing	1	1
4	320162	Washer	1	2
5	292683	Lockwasher	1	2
6	292535	Capscrew	1	2
7	16449	Fitting	2	4
8	369426	Plate	1	2
9	a 78286	Clamp	2	4
9	b 78286	Clamp	3	6
10	a 340054	Spacer	2	4
10	b 340054	Spacer	3	6
11	c	Tube Assy	2	4
12	c	Hose Assy	2	4
13	16448	Fitting (Pin Type)	2	4
14	1302636	Hose Assy	2	2
15	302401	Locknut	1	2
15	320160	Washer	1	2
16	255578	Clamp	1	2
17	15176	Lockwasher	1	2
17	292517	Capscrew	1	2
18	1302637	Hose Assy	..	2
19	15176	Lockwasher	2	4
19	292522	Capscrew	2	4
20	302401	Locknut	2	4
20	320160	Washer	2	4

FOOTNOTES:

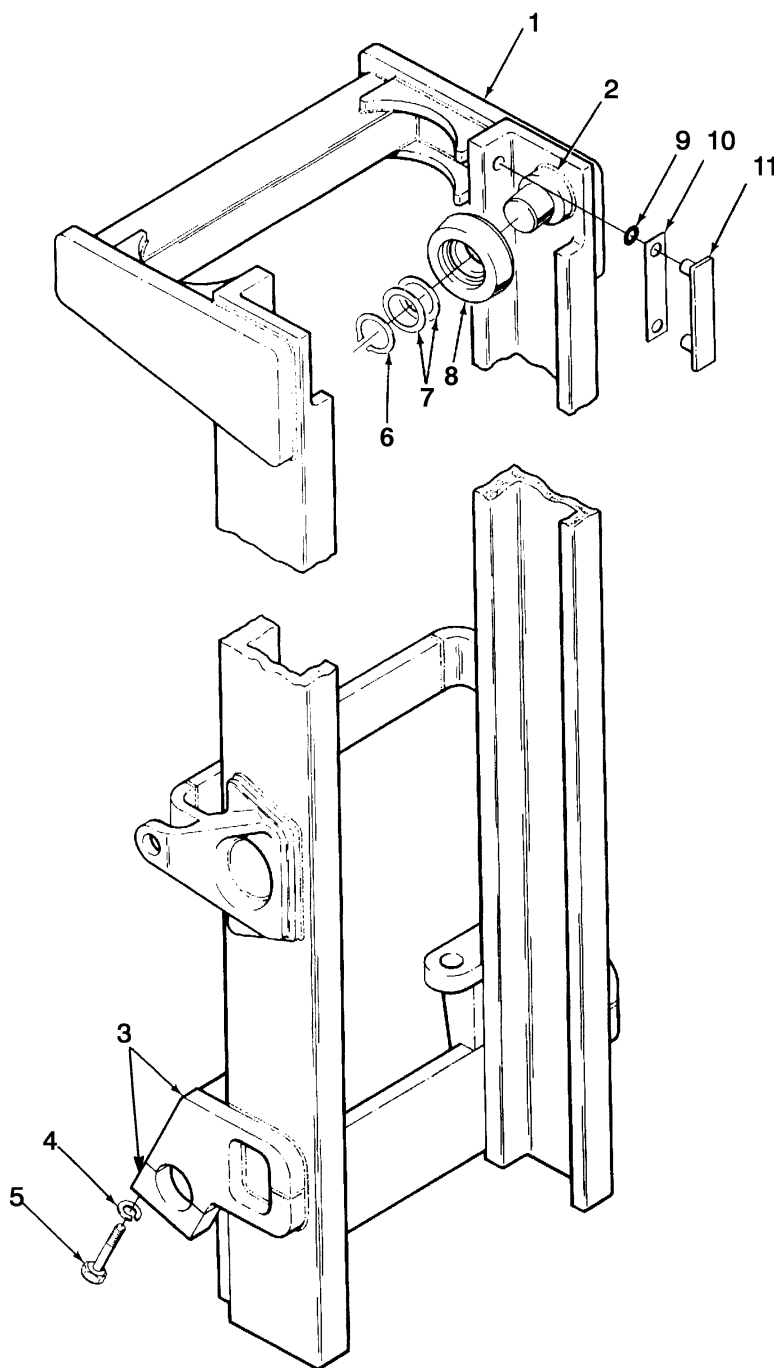
- a** 2340 mm (92.0 in.) Lift Height and 3340 mm (131.5 in.) Lift Height **c** Refer to Table
- b** 4340 mm (171.0 in.) Lift Height and Above

[illegible]

SECTION 10
MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
THREE STAGE FULL FREE-LIFT	10-22
FREE-LIFT	
THREE STAGE FULL FREE-LIFT	10-12
FREE-LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	10-20
HEADER HOSE	
THREE STAGE FULL FREE-LIFT	10-24
INNER MAST	
THREE STAGE FULL FREE-LIFT	10-6
INTERMEDIATE MAST	
THREE STAGE FULL FREE-LIFT	10-4
MAIN LIFT	
THREE STAGE FULL FREE-LIFT	10-8
MAIN LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	10-16
OUTER MAST	
THREE STAGE FULL FREE-LIFT	10-2

OUTER MAST (FIGURE 10-1) THREE STAGE FULL FREE-LIFT



HP170634

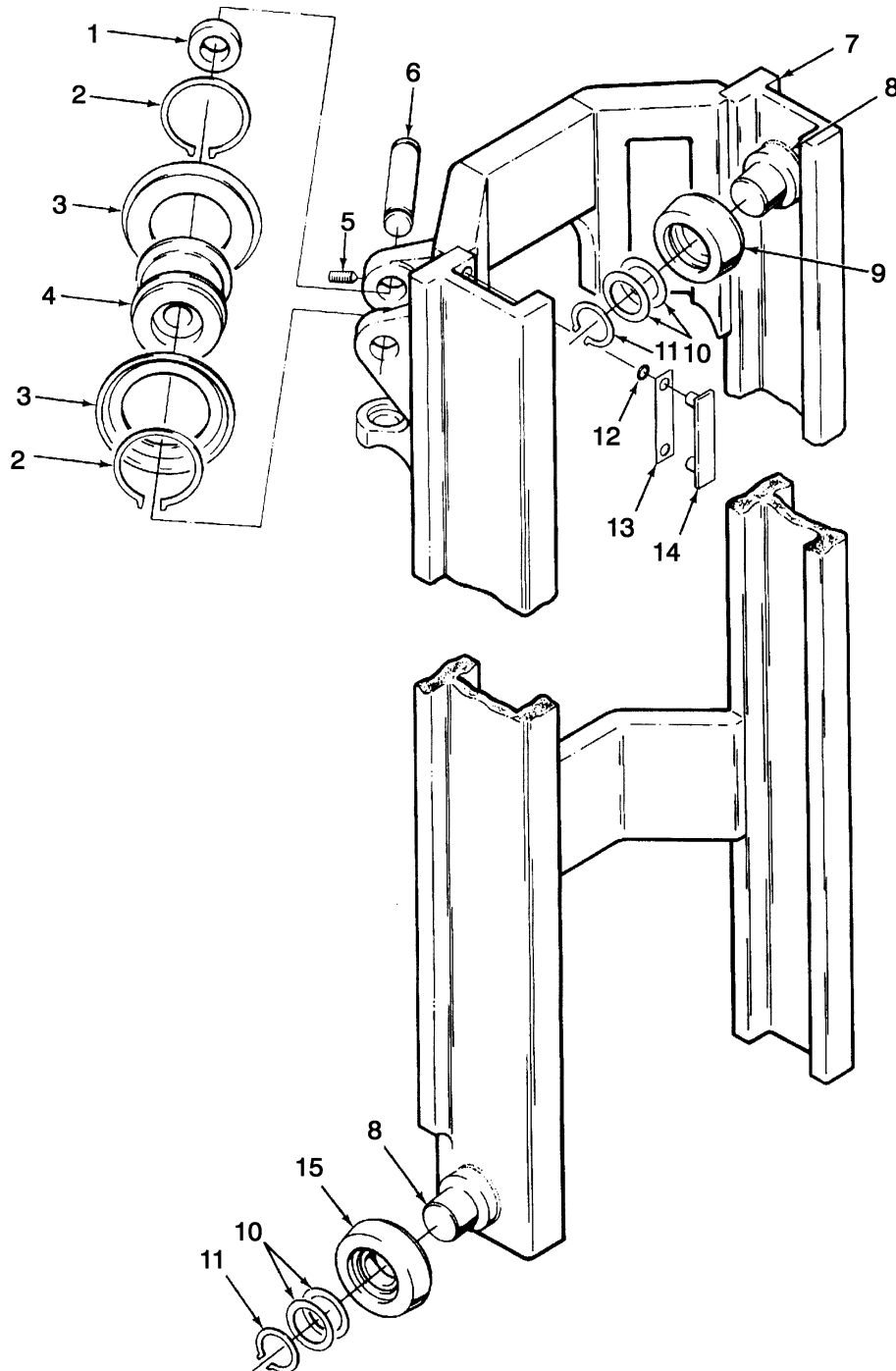
**OUTER MAST
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Mast Assy	2044527	2044528	2044529
1	Outer Mast	1493517	1493519	1493520

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Outer Mast	1
2	341144	Stubshaft	2
3	369448	Hanger	2
4	296426	Washer	2
5	292570	Capscrew	2
6	187489	Snap Ring	2
7	126765	Shim (0.020 in.)	AR
8	a 1333649	Load Roller (0.50 in.)	AR
9	104506	O-Ring	4
10	161272	Shim (0.007 in.) (Optional)	AR
10	161273	Shim (0.020 in.)	AR
11	104264	Wear Strip	2

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

INTERMEDIATE MAST (FIGURE 10-2) THREE STAGE FULL FREE-LIFT



HP170635

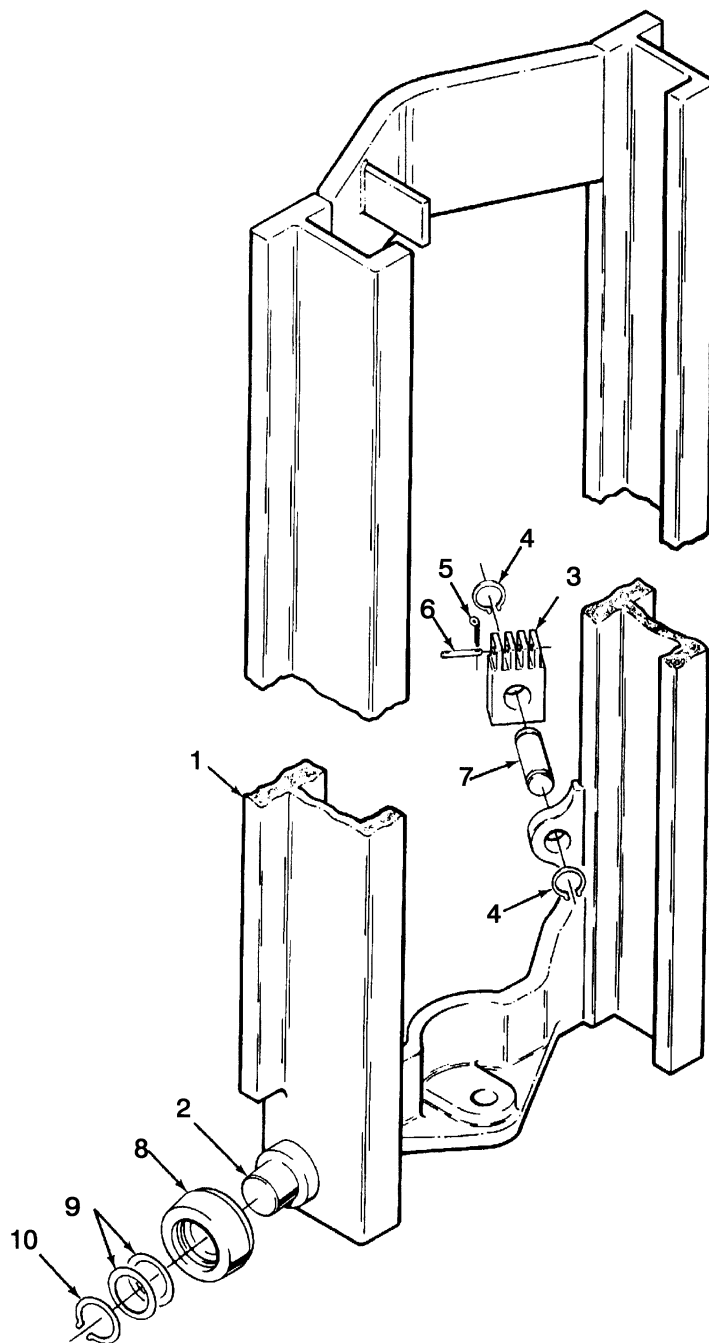
**INTERMEDIATE MAST
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Mast Assy	2044527	2044528	2044529
7	Intermediate Mast	364202	364203	364204

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	362356	Spacer	4
2	362953	Snap Ring	4
3	362950	Plate	4
4	362352	Chain Sheave	2
5	302105	Setscrew	2
6	366496	Pin	2
7	b	Intermediate Mast	1
8	341144	Stubshaft	4
9	a 1333648	Load Roller (0.050 in.)	AR
10	126765	Shim (0.020 in.)	AR
11	187489	Snap Ring	4
12	104506	O-Ring	4
13	131715	Shim (0.007 in.) (Optional)	AR
13	131716	Shim (0.020 in.)	AR
14	215211	Wear Strip	2
15	a 1333649	Load Roller (0.050 in.)	AR

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

INNER MAST (FIGURE 10-3) THREE STAGE FULL FREE-LIFT



HP170649

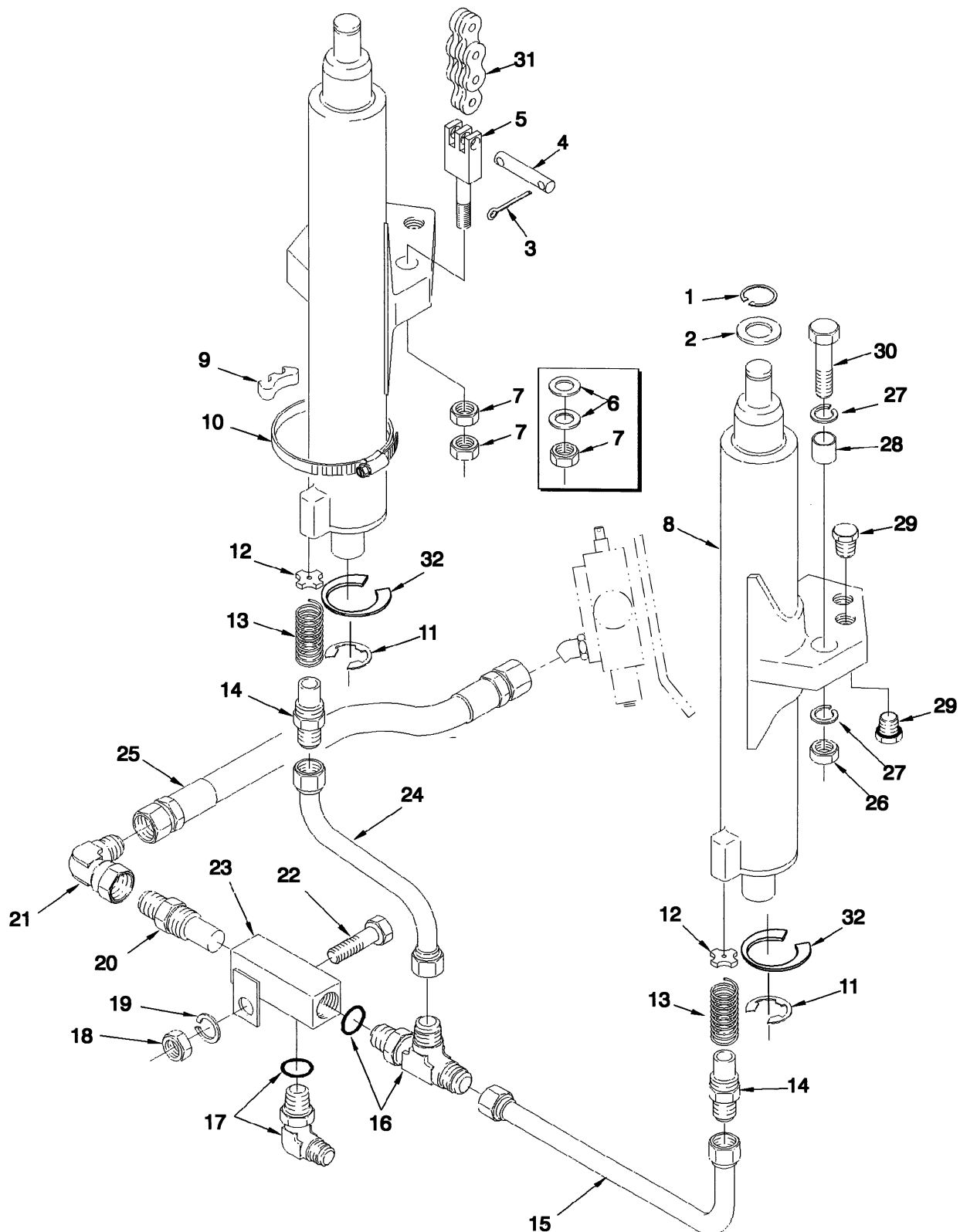
**INNER MAST
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Mast Assy	2044527	2044528	2044529
1	Inner Mast	1307391	1307392	1313811

ITEM	PART NO.	DESCRIPTION	QTY
	b	Mast Assy	1
1	b	Inner Mast	1
2	341144	Stubshaft	2
3	358305	Chain Anchor	2
4	122400	Snap Ring	4
5	15222	Cotter Pin	2
6	1307395	Pin	2
7	349320	Pin	2
8	a 1333648	Load Roller (0.050 in.)	AR
9	126765	Shim (0.020 in.)	AR
10	187489	Snap Ring	2

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

MAIN LIFT (FIGURE 10-4) THREE STAGE FULL FREE-LIFT



HP170696

**MAIN LIFT
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Mast Assy	2044527	2044528	2044529
31	Chain	341123	366516	366523

ITEM	PART NO.	DESCRIPTION	QTY
	a	Mast Assy	1
1	304523	Snap Ring	2
2	296438	Washer	2
3	15222	Cotter Pin	2
4	1307395	Pin	2
5	1331992	Chain Anchor	2
6	343946	Kit-Washer	2
7	293723	Nut	4
8		Lift Cylinder (LH) (☞Figure 10-6).....	2
8		Lift Cylinder (RH) (☞Figure 10-6).....	2
9	340054	Spacer	1
10	162562	Hose Clamp	1
11	1307300	Electrical Connector (E-ring)	..
12	320334	Washer	2
13	388186	Spring	2
14	184799	Fitting	2
15	1485589	Tube Assy	1
16	14586	T-Fitting	1
16	16485	O-Ring	1
17	16562	Fitting	1
17	16487	O-Ring	1
18	316826	Nut	1
19	320160	Washer	2
20	346971	Lowering Control Valve	1
21	16938	Fitting	1
22	292519	Capscrew	1
23	372346	Housing	1
24	1485590	Tube Assy	1
25	1485326	Hose Assy	1
26	316829	Nut	4
27	296431	Washer	8
28	372389	Spacer	2
29	216590	Fitting	4
30	292593	Capscrew	4
31	a	Chain	2
32	1344753	Shim (0.030 in.)	AR

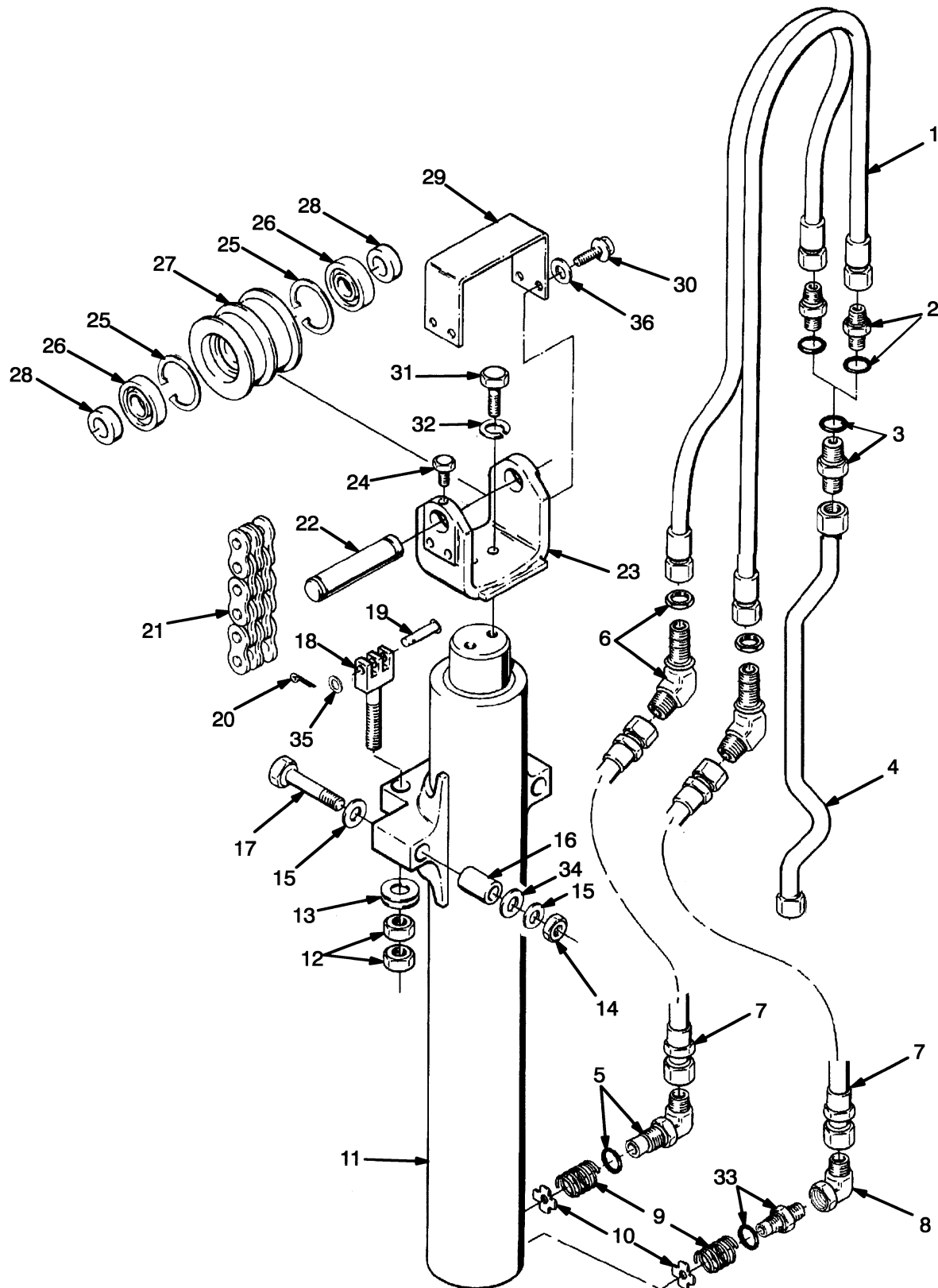
FOOTNOTES:

- a** Refer to Table

NOTES

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FREE-LIFT (FIGURE 10-5) THREE STAGE FULL FREE-LIFT



HP170697

**FREE-LIFT
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
1	Hose Assy	366517	366518	366519
4	Tube Wldmt- Cylinder	1493523	1485591	1493524
21	Chain	368139	368140	1313789

ITEM	PART NO.	DESCRIPTION	QTY
1	a	Hose Assy	1
2	201783	Fitting	2
2	16486	O-Ring	1
3	16544	Connector	1
3	16487	O-Ring	1
4	a	Tube Wldmt-Cylinder	1
5	189595	Fitting	1
6	16467	Fitting	2
7	330028	Hose Assy	2
8	16882	Fitting	2
9	388186	Spring	2
10	320334	Washer	2
11		Lift Cylinder (☞ Figure 10-7)	1
12	293723	Nut	4
13	343946	Kit-Washer	2
14	316829	Nut	4
15	296431	Washer	4
16	372389	Spacer	2
17	292593	Capscrew	2
18	1331992	Chain Anchor	2
19	1307395	Pin	2
20	15222	Cotter Pin	2
21	a	Chain	2
22	366526	Pin	1
23	366528	Crosshead	1
24	302105	Setscrew	1
25	59625	Snap Ring	2
26	334932	Ball Bearing	2
27	366524	Chain Sheave	1
28	297573	Spacer	2
29	366529	Chain Guard	1
30	292514	Capscrew	4
31	292562	Capscrew	2
32	292685	Lockwasher	2
33	184799	Fitting	1
34	15133	Washer	2

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

ITEM	PART NO.	DESCRIPTION	QTY
35	320160	Washer	AR
36	292682	Lockwasher	4

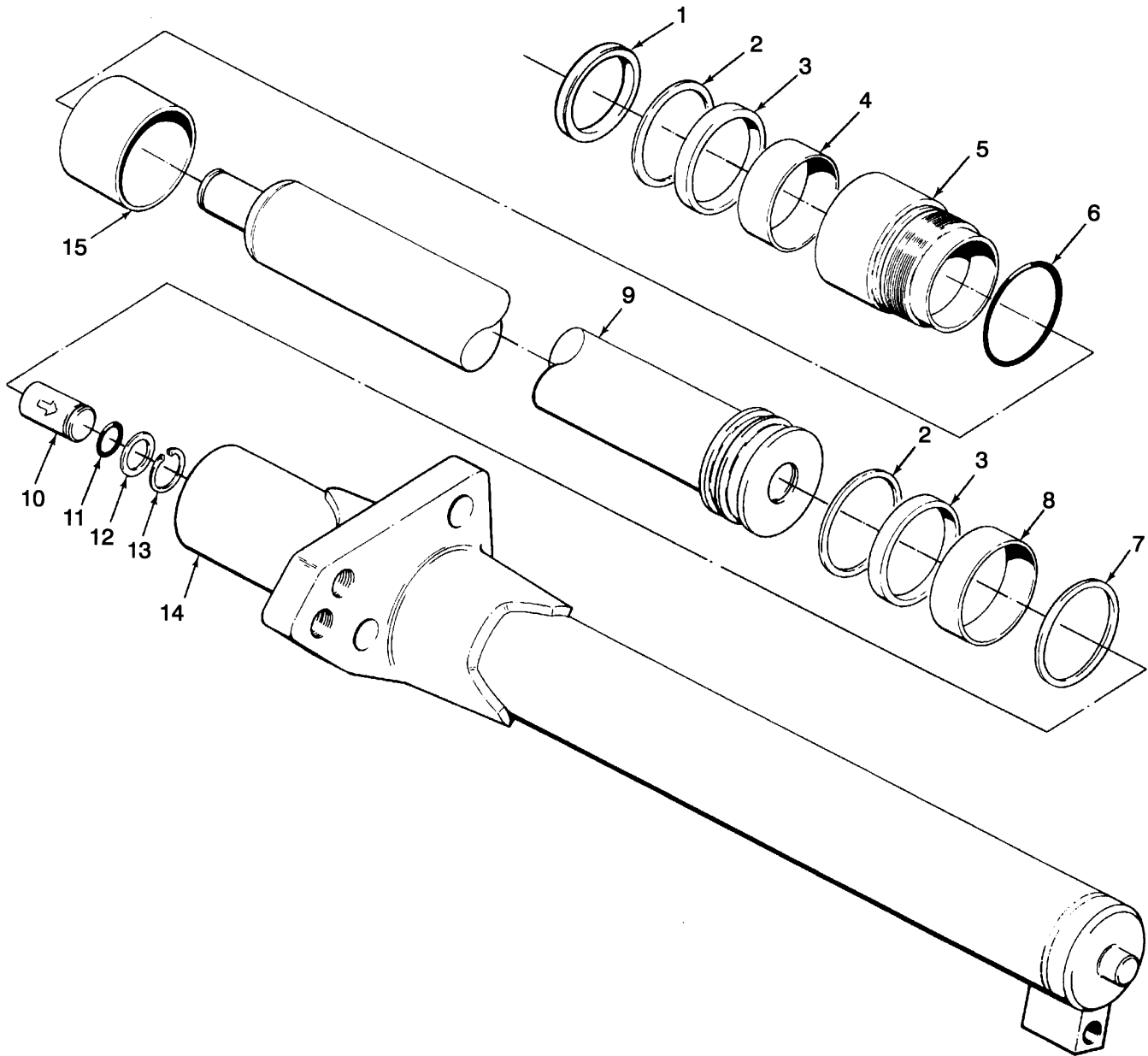
FOOTNOTES:

a Refer to Table

NOTES

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MAIN LIFT CYLINDER (FIGURE 10-6) THREE STAGE FULL FREE-LIFT



HP170717

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

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Cylinder Group Number	8504270	8504271	8504272
	Cylinder Assy	1332000	1332002	1332003
9	Cylinder Rod	362965	362966	362967
14	Tube Wldmt- Cylinder	362986	362987	362988

RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Cylinder Group Number	8504274	8504275	8504276
	Cylinder Assy	1332005	1332007	1332008
9	Cylinder Rod	362965	362966	362967
14	Tube Wldmt- Cylinder	362975	362976	362977

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	2
1	1314311	Rod Wiper	1
2	637565	Back-Up Ring	2
3	309062	Rod Seal	2
4	316513	Wear Ring	1
5	1331993	Retainer	1
6	15880	O-Ring	1
7	364233	Piston Ring	1
8	636941	Wear Ring	1
9	a	Cylinder Rod	1
10	257913	Check Valve	1
11	39348	O-Ring	1
12	297531	Washer	1
12	637635	Washer (Optional)	1
13	187388	Snap Ring	1
14	a	Tube Wldmt-Cylinder	1
15	383824	Spacer	..

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

ITEM	PART NO.	DESCRIPTION	QTY
	1332019	Kit-Seal	1

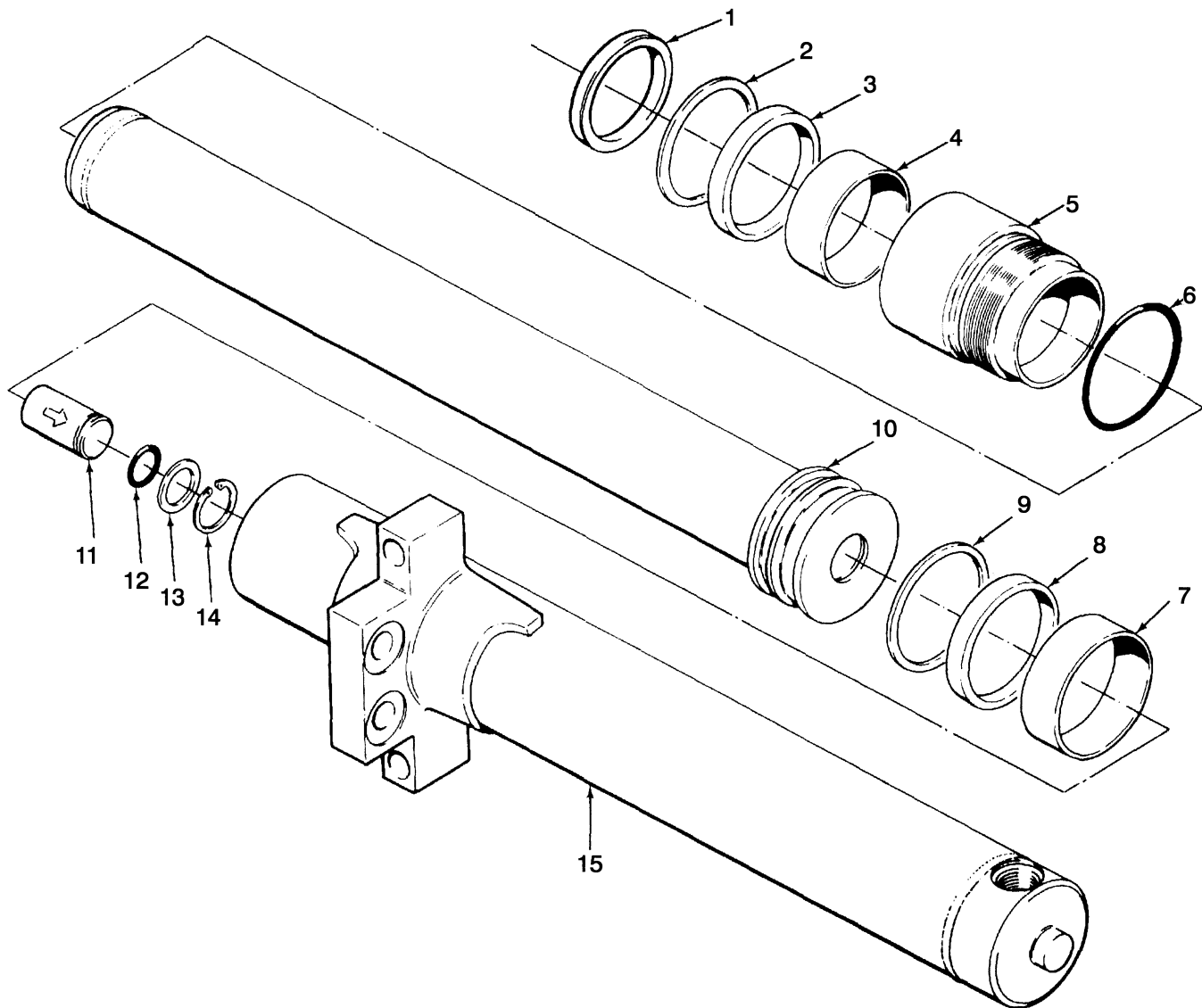
FOOTNOTES:

a Refer to Table

NOTES

[illegible]

FREE-LIFT CYLINDER (FIGURE 10-7) THREE STAGE FULL FREE-LIFT



HP170718

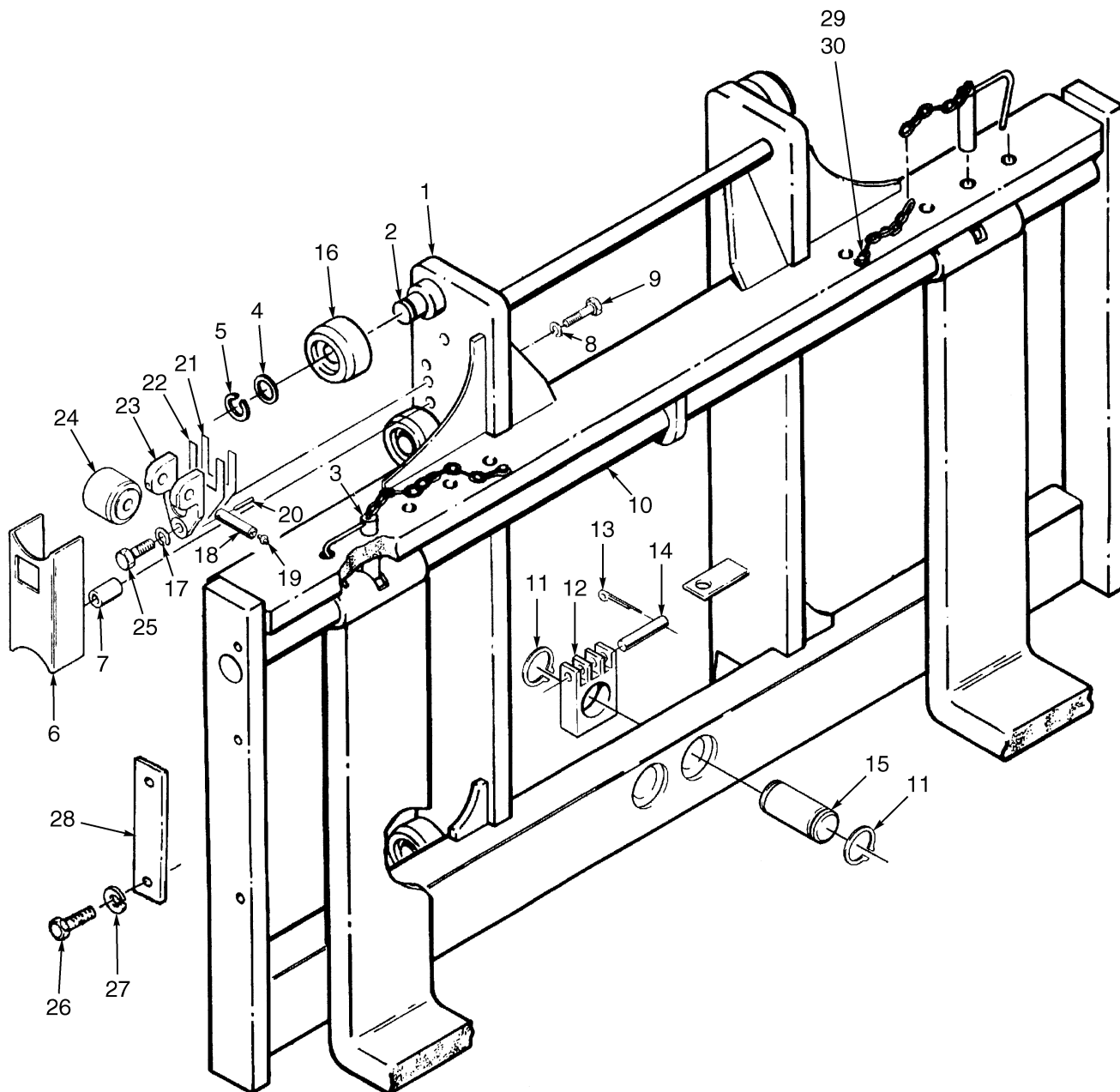
**FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
	Cylinder Group Number	8504266	8504267	8504268
	Cylinder Assy	364246	364247	1313809
10	Cylinder Rod	366484	366485	366486
15	Tube Wldmt- Cylinder	366476	366477	1313807

ITEM	PART NO.	DESCRIPTION	QTY
	a	Cylinder Assy	1
1	636858	Rod Wiper	1
2	638292	Back-Up Ring	1
3	637161	Rod Seal	1
4	215345	Wear Ring	1
5	324023	Retainer	1
6	15889	O-Ring	1
7	636954	Wear Ring	1
8	637166	Rod Seal	1
9	638224	Back-Up Ring	1
10	a	Cylinder Rod	1
11	257913	Check Valve	1
12	190580	O-Ring	1
13	297531	Washer	1
13	637635	Washer (Optional)	1
14	187388	Snap Ring	1
15	a	Tube Wldmt-Cylinder	1
	368137	Kit-Seal	1

FOOTNOTES:**a** Refer to Table

CARRIAGE (FIGURE 10-8) THREE STAGE FULL FREE-LIFT



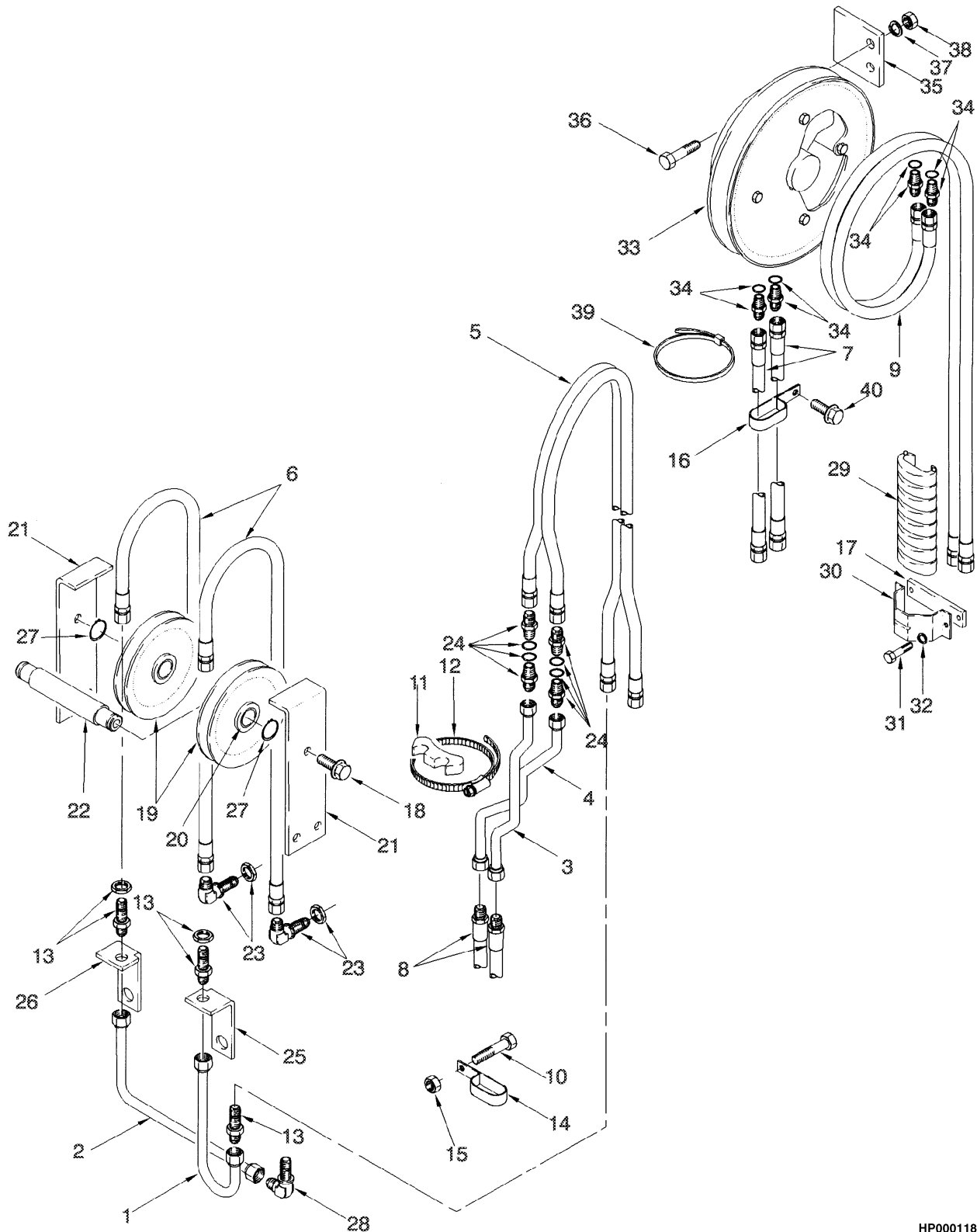
HP170606

**CARRIAGE
THREE STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	1318161	Carriage (78 in.)	1
1	1331270	Carriage Wldmt	1
2	341144	Stubshaft	6
3	1331269	Pin	2
4	126765	Shim (0.020 in.) (Bottom Four Rollers)	AR
4	366116	Spacer (Top Two Rollers)	2
5	187489	Snap Ring	6
6	319322	Bracket Wldmt (RH)	1
6	319323	Bracket Wldmt (LH)	1
7	317292	Spacer	4
8	15155	Lockwasher	4
9	18522	Capscrew	4
10	1330064	Pin	2
11	122400	Snap Ring	4
12	358305	Chain Anchor	2
13	15222	Cotter Pin	2
14	1307395	Pin	2
15	1330780	Pin	2
16	a 1333648	Load Roller (0.060 in.)	AR
17	b 292683	Lockwasher	4
18	b 244009	Pin	2
19	b 16001	Grease Fitting	2
20	b 66333	Roll Pin	2
21	b 192424	Shim (0.030 in.)	AR
22	b 192425	Shim (0.062 in.)	AR
23	b 244008	Bracket	2
24	b 244005	Side Roller	2
25	b 292528	Capscrew	4
26	226458	Capscrew	4
27	292685	Lockwasher	4
28	66468	Plate	2
29	292513	Capscrew	2
30	296420	Washer	2

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

HEADER HOSE (FIGURE 10-9) THREE STAGE FULL FREE-LIFT



HP000118

**HEADER HOSE
THREE STAGE FULL FREE-LIFT****A514**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
	Mast Group Number	A514 3590	A514 4538	A514 5540
1	Tube Assy	380567	380569	380569
2	Tube Assy	380568	380570	380570
3	Tube Assy	1562516	386626	386627
4	Tube Assy	1562519	386630	386631
5	Hose Assy	386634	386635	386636
6	Hose Assy	386646 1302591	386646 1302592	386646 1306159 346571
7	Hose Assy	386642	386643	386644

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	b	Tube Assy	1	1
2	b	Tube Assy	1	1
3	b	Tube Assy	1	1
4	b	Tube Assy	1	1
5	b	Hose Assy	1	1
6	b	Hose Assy	2	2
7	b	Hose Assy	..	2
8	346571	Hose Assy	2	2
9	a 386646	Hose Assy	..	1
10	292519	Capscrew	1	1
11	340054	Spacer	2	2
12	78286	Clamp	2	2
13	16449	Fitting	3	3
14	255578	Clamp	1	1
15	302401	Locknut	1	1
16	255578	Clamp	..	1
17	356431	Plate	..	1
18	351668	Screw	2	2
19	297647	Sheave	2	2
20	136045	Bushing	1	1
21	380585	Bracket	2	2
22	380587	Shaft	1	1
23	16458	Fitting	2	2
24	16542	Connector	4	4
24	16485	O-Ring	1	1

HEADER HOSE THREE STAGE FULL FREE-LIFT

KEY:

A: Three Function

B: Four Function

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
25	380590	Bracket	1	1
26	380591	Bracket	1	1
27	248212	Snap Ring	2	2
28	16459	Fitting	1	1
29	358286	Strain Relief	..	1
30	358287	Bracket	..	1
31	16870	Capscrew	..	2
32	15156	Lockwasher	..	2
33	358289	Hose Reel	..	1
33	672563	Kit-Seal	..	1
34	16541	Fitting	..	4
34	16484	O-Ring	..	1
35	386648	Mounting Plate	..	1
36	292537	Capscrew	..	2
37	292683	Lockwasher	..	2
38	216877	Nut	..	2
39	273775	Strap Clamp (Strap)	..	2
40	351668	Screw	..	1

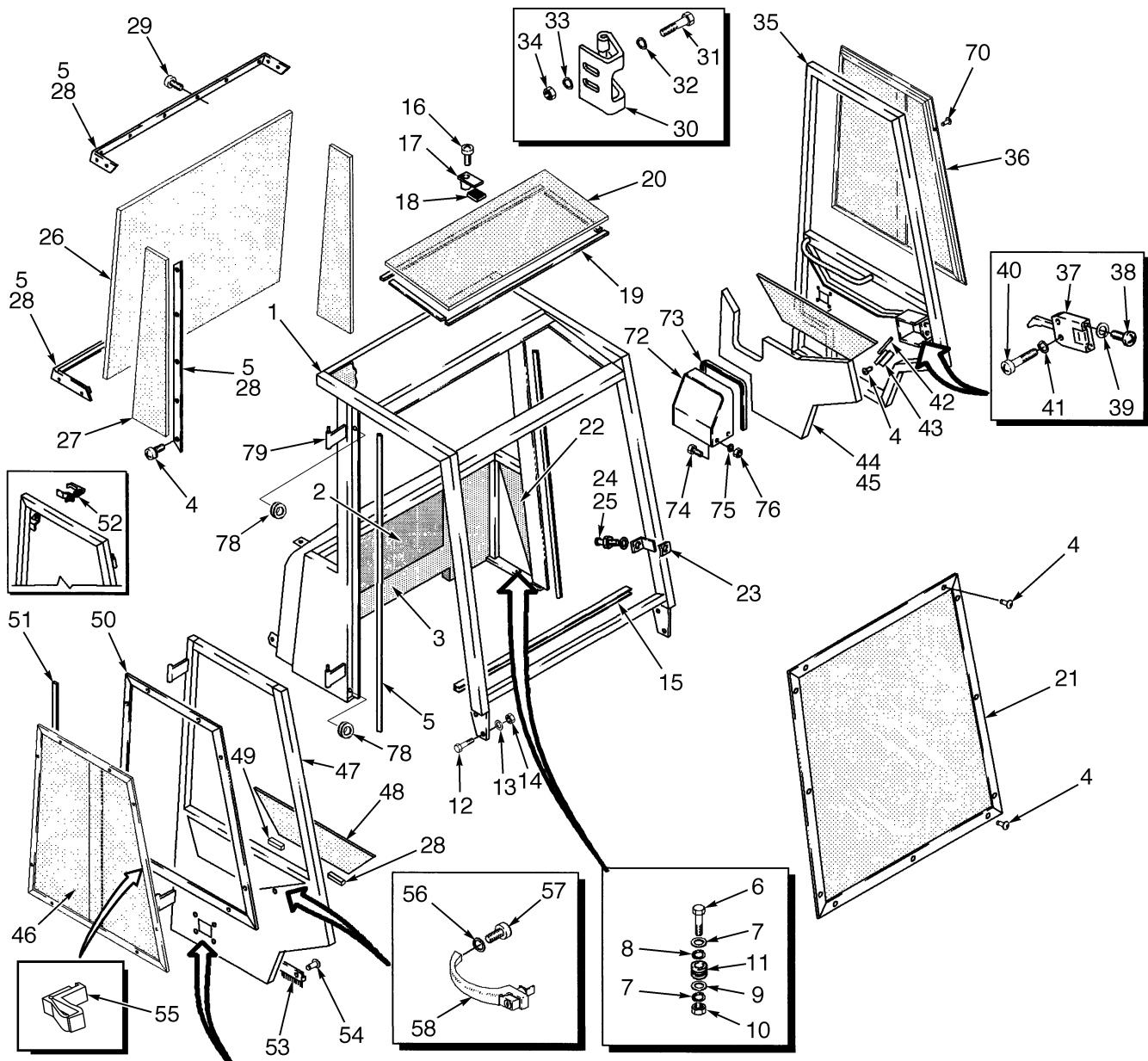
FOOTNOTES:

- a** 3590 mm (141.5 in.) thru 5540 mm (218.0 in.) Lift Heights
- b** Refer to Table

SECTION 11
OPTIONS

DESCRIPTION	PAGE
CAB	11-2
HEATER	11-6
LIGHTS	11-20
SIDE-SHIFT CARRIAGE	
78-INCH - TWO STAGE LIMITED FREE-LIFT	11-12
78-INCH - THREE STAGE FULL FREE-LIFT	11-14
SIDE-SHIFT CYLINDER	11-18
TIRES AND WHEELS	
DRIVE	11-24
STEERING	11-26
WIPER AND FAN	11-10

CAB (FIGURE 11-1)



BP000154

CAB**KEY:****A: LPG****B: Gasoline and Diesel**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1		Frame	1	1
2	1479609	Foam Lining	1	1
3	1479608	Foam Lining	1	1
4	1321870	Rivet	24	32
5	365327	Strip Seal	AR	AR
6	292570	Capscrew	2	2
7	379402	Washer	4	4
8	292685	Lockwasher	2	2
9	164281	Washer	2	2
10	292600	Nut	2	2
11	129962	Motor Mount	2	2
12	221653	Screw	4	4
13	134674	Shim (0.060 in.)	AR	AR
14	248320	Wheel Nut	4	4
15		Seal	AR	AR
16	302031	Screw	3	3
17	3047238	Plate (Window)	3	3
18	1342660	Strip Seal	3	3
19	318352	Sealant	AR	AR
20	1321868	Window (Top)	1	1
21	1375978	Front Window (Front)	1	1
22	3047419	Foam Lining (LH Door)	1	1
22	3047420	Foam Lining (RH Door)	1	1
23	365343	Plate	2	2
24	365344	Bolt	2	2
25	15178	Washer	2	2
26	1319365	Glass (Rear)	1	1
27	1319364	Glass (Rear)	2	2
28	366123	Strip	AR	AR
29	3047332	Screw	31	31
30	1369520	Striker	1	1
31	292513	Capscrew	2	2
32	292682	Lockwasher	2	2
33	320159	Washer	2	2
34	136692	Nut	2	2
35	1374427	Door (LH)	1	1
35	3047452	Hinge	2	2
36	1375981	Window (LH)	1	1
36	1377706	Glass (Sliding)	1	1
36	1377707	Glass (Stationary)	1	1
36	1377702	Latch	1	1
37	1309824	Door Handle (LH)	1	1
37	1312450	Door Handle (RH)	1	1
38	296464	Screw	4	4
39	296396	Washer	4	4
40	302248	Capscrew	4	4

CAB

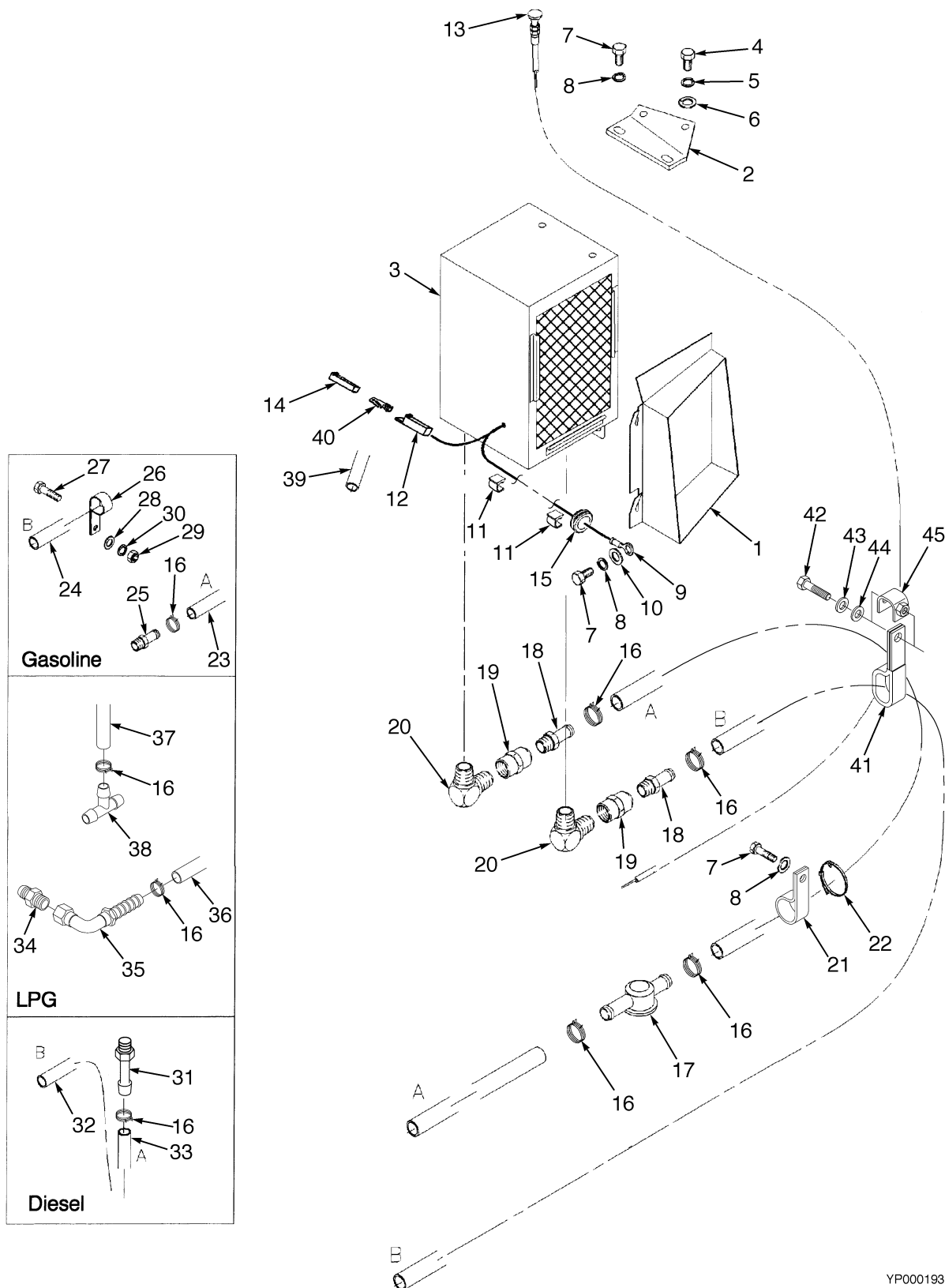
KEY:
A: LPG
B: Gasoline and Diesel

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
41	15165	Lockwasher	4	4
42	261158	Foam Tape	AR	AR
43	3047178	Clip	4	4
44	1374440	Foam Lining (LH Door)	1	1
45	1374441	Foam Lining (RH Door)	1	1
46	1375982	Window (RH)	1	1
46	1377706	Glass (Sliding)	1	1
46	1377707	Glass (Stationary)	1	1
47	1374425	Door (RH)	1	..
47	3047452	Hinge	2	..
47	1374426	Door (RH)	..	1
47	3047452	Hinge	..	2
48	3047356	Window	2	2
49	334369	Block	4	4
50	1321677	Frame (Window)	1	..
51	283259	Tape	AR	..
52	320048	Latch	2	..
53	365325	Strip Seal	AR	AR
54	222024	Rivet	20	20
55	1377702	Latch	1	1
56	292680	Washer	12	12
57	302043	Screw	2	2
58	3047176	Handle	2	2
58	1360777	Key	2	2
59	1374428	Latch	1	2
59	1356943	Latch	1	1
60	1356948	Bracket	1	1
61	1358734	Spring	1	1
62	226774	Pin	1	1
63	292500	Capscrew	4	4
64	320156	Washer	2	6
65	1369496	Seal	2	2
66	825843	Cover	1	..
67	353144	Capscrew	4	..
68	136687	Nut	4	..
69	292500	Capscrew	..	4
70	302031	Screw	8	..
71	1369498	Striker	1	2
72	370269	Cover	..	1
73	a 1328887	Seal	..	AR
74	136681	Capscrew	..	4
75	320157	Washer	..	4
76	239503	Nut	..	4
77	1466459	Foam Lining (Not Illustrated)	1	1
78	260045	Grommet	6	6
79	3047451	Hinge	4	4

FOOTNOTES:

- a** Standard on Cab/Optional on Fuel Fill Cover

HEATER (FIGURE 11-2)



YP000193

HEATER

ITEM	PART NO.	DESCRIPTION	QTY
1	379413	Air Inlet	1
2	379416	Bracket	1
3	379417	Heater	1
3	1350058	Motor	1
3	1350059	Radiator	1
4	220497	Screw	2
5	15152	Lockwasher	2
6	197067	Washer	2
7	292500	Capscrew	5
8	292680	Washer	5
9	129894	E-Ring	1
10	1476421	Washer	4
11	279739	Clamp	8
12	181045	Connector Body	1
13	1302129	Cable Assy	1
14	181046	Connector Body	1
15	317192	Grommet	1
16	b 130845	Clamp	5
16	c 130845	Clamp	8
16	a 130845	Clamp	6
17	1300741	Drain Valve	1
18	16156	Fitting	2
19	12828	Fitting	2
20	14836	Fitting (Includes Olive and Nut)	2
21	251994	Clamp	1
22	397676	Strap Clamp	AR
23	b 258488	Hose	1
24	b 129114	Hose	1
25	b 138710	Fitting	1
26	b 178119	Clamp	1
27	b 293615	Capscrew	1
28	b 296418	Washer	2
29	b 239503	Nut	1
30	b 292681	Lockwasher	1
31	a 16156	Fitting	2
32	a 131286	Hose	1
33	a 925952	Hose	1
34	c 14681	Fitting	1
35	c 2075642	Fitting	1
36	c 258487	Hose	1
37	c 224060	Hose	1
38	c 1562138	T-Fitting	1
39	358354	Hose	1
40	134810	Terminal	1
41	b 255578	Clamp	1
42	b 292501	Capscrew	1
43	b 320156	Washer	1
44	b 320157	Washer	1
45	b 325182	Nut	1
46	b 2004005	Strap Clamp (Not Illustrated)	1
47	175899	Tape (Not Illustrated)	AR

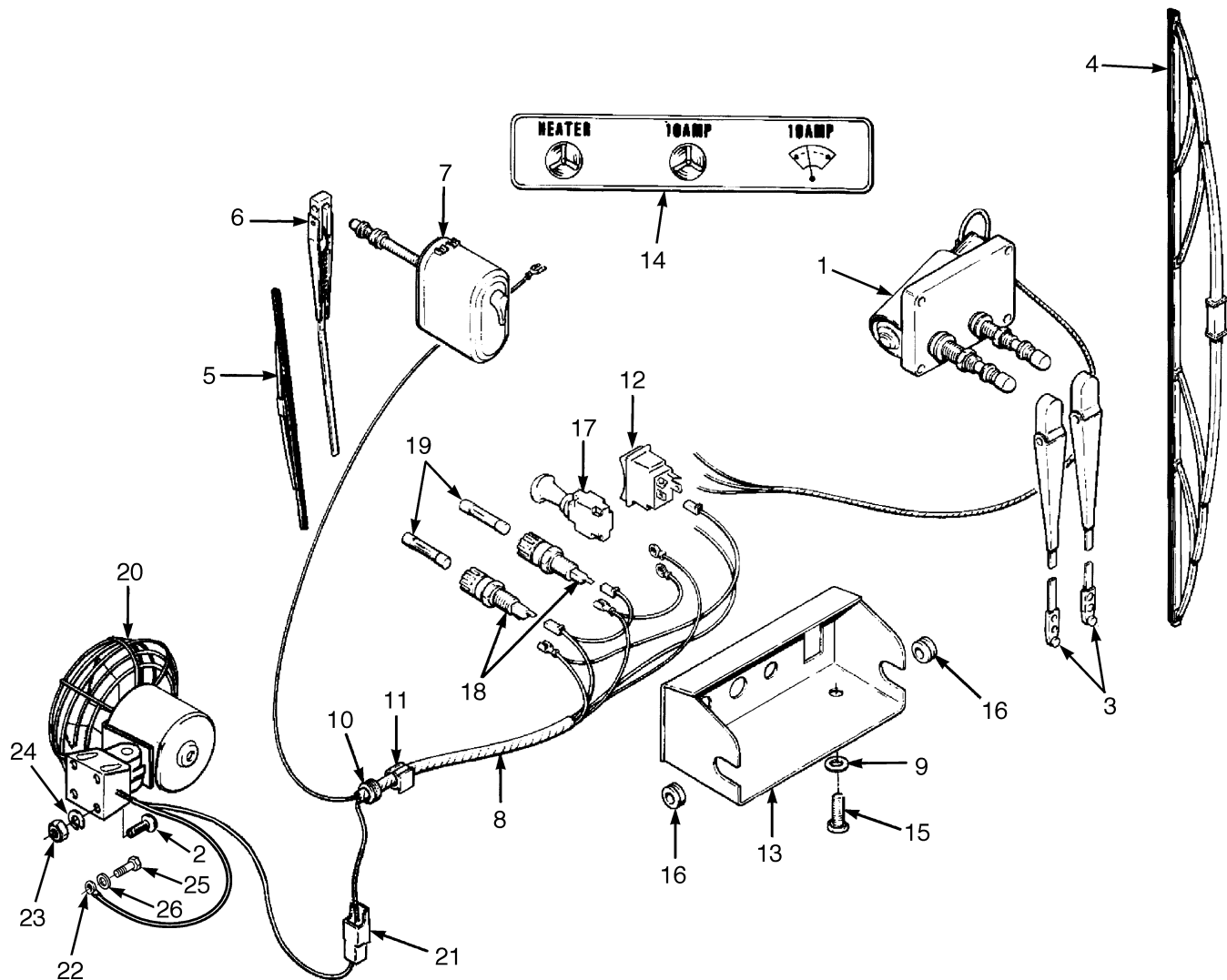
ITEM	PART NO.	DESCRIPTION	QTY

a Diesel **c** LPG
b Gasoline

NOTES

[illegible]

WIPER AND FAN (FIGURE 11-3)

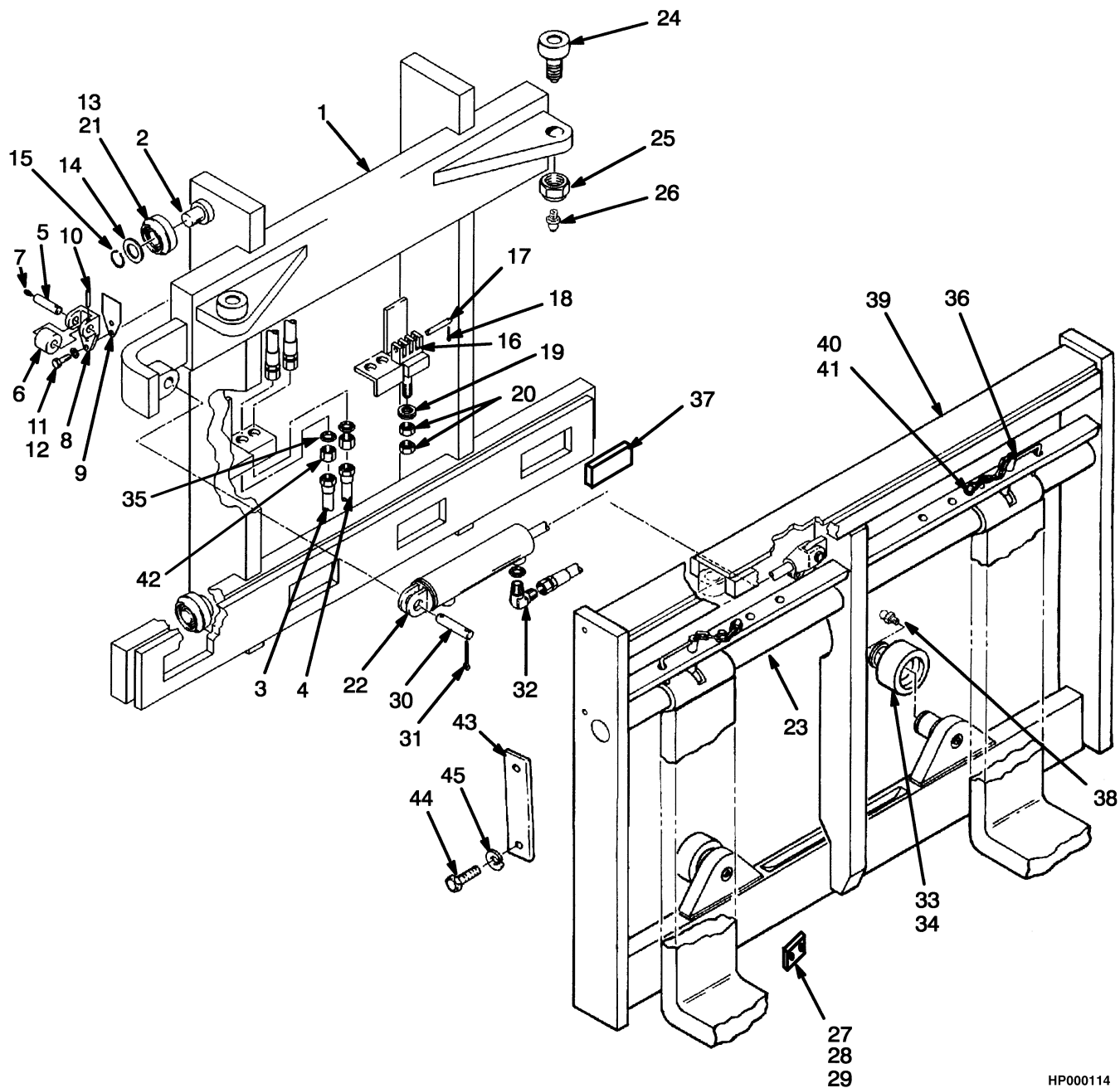


YP000194

WIPER AND FAN

ITEM	PART NO.	DESCRIPTION	QTY
1	1505234	Wiper Motor (Front)	1
2	16750	Screw	4
3	816045	Wiper Arm (Front)	1
4	816046	Wiper Blade (Front)	1
5	1466437	Wiper Blade (Rear)	1
6	1466435	Wiper Arm (Rear)	1
7	2038038	Wiper Motor (Rear)	1
8	2038035	Wire Harness	1
8	1506561	Wire Harness (Harness)	1
9	320156	Washer	2
10	26283	Grommet	3
11	279740	Clamp	2
12	334635	Switch	1
13	377606	Panel	1
14	377608	Label	1
15	148962	Capscrew	2
16	1151997	Grommet	2
17	1377797	Switch	1
18	377607	Fuse Holder	2
19	53124	Fuse (10 Amp)	2
20	1301745	Fan	1
20	1311213	Fan	1
21	134810	Terminal	1
21	181045	Connector Body	1
22	1301783	Ring Terminal	1
23	15002	Nut	4
24	15152	Lockwasher	4
25	244272	Screw	1
26	16743	Lockwasher	1

SIDE-SHIFT CARRIAGE (FIGURE 11-4) 78-INCH — TWO STAGE LIMITED FREE-LIFT

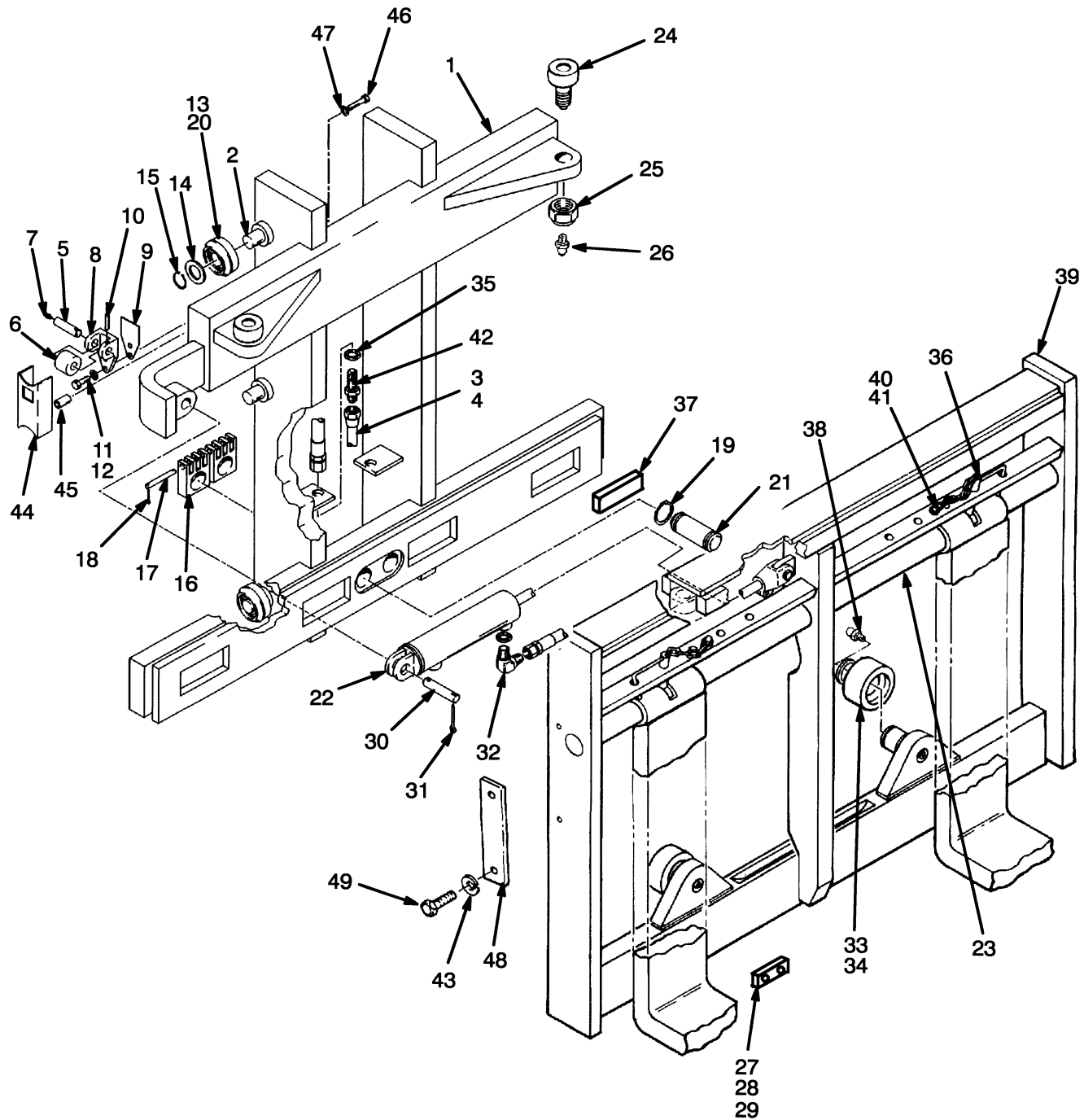


HP000114

SIDE-SHIFT CARRIAGE
78-INCH – TWO STAGE LIMITED FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	1376381	Side-Shift Carriage	1
1	1330795	Side-Shift Carriage	1
2	341144	Stubshaft	6
3	1379293	Tube Assy	1
4	1379294	Tube Assy	1
5	66333	Roll Pin	2
6	244005	Side Roller	2
7	16001	Grease Fitting	2
8	244008	Bracket	2
9	192424	Shim (0.030 in.)	AR
9	192425	Shim (0.062 in.)	AR
10	244009	Pin	2
11	292528	Capscrew	4
12	292683	Lockwasher	4
13	1333648	Load Roller	6
14	126765	Shim (0.020 in.)	AR
15	187489	Snap Ring	6
16	1331992	Chain Anchor	2
17	1307395	Pin	2
18	15222	Cotter Pin	2
19	343946	Kit-Washer	2
20	293723	Nut	4
21	366116	Spacer	4
22	2047836	Sideshift Cylinder (☞ Figure 11-6).....	1
23	1330064	Pin	2
24	340105	Cam Follower	2
25	17411	Locknut	2
26	16005	Grease Fitting	2
27	1330784	Plate	2
28	226458	Capscrew	4
29	292685	Lockwasher	4
30	308117	Pin	2
31	15236	Cotter Pin	2
32	16558	Fitting	2
32	16483	O-Ring	1
33	117317	Load Roller	2
34	58954	Snap Ring	2
35	16448	Fitting	2
36	1330790	Pin	2
37	351458	Bearing	4
38	16006	Grease Fitting	2
39	1330052	Apron	1
40	292513	Capscrew	2
41	296420	Washer	2
42	17218	Fitting	2
43	149634	Plate	2
44	226458	Capscrew	4
45	292685	Lockwasher	4

SIDE-SHIFT CARRIAGE (FIGURE 11-5) 78-INCH — THREE STAGE FULL FREE-LIFT



HP000115

SIDE-SHIFT CARRIAGE
78-INCH – THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	1376382	Side-Shift Carriage	1
1	1330051	Side-Shift Carriage	1
2	341144	Stubshaft	6
3	1379295	Tube Assy (RH)	1
4	1379296	Tube Assy (LH)	1
5	66333	Roll Pin	2
6	244005	Side Roller	2
7	16001	Grease Fitting	2
8	244008	Bracket	2
9	192424	Shim (0.030 in.)	AR
9	192425	Shim (0.062 in.)	AR
10	244009	Pin	2
11	292528	Capscrew	4
12	292683	Lockwasher	4
13	1333648	Load Roller	6
14	126765	Shim (0.020 in.)	AR
15	187489	Snap Ring	6
16	358305	Chain Anchor	2
17	1307395	Pin	2
18	15222	Cotter Pin	2
19	122400	Snap Ring	4
20	366116	Spacer	4
21	1330780	Pin	4
22	2047836	Sideshift Cylinder (☞ Figure 11-6).....	1
23	1330064	Pin	2
24	340105	Cam Follower	2
25	17411	Locknut	2
26	16005	Grease Fitting	2
27	1330784	Plate	2
28	226458	Capscrew	4
29	292685	Lockwasher	4
30	308117	Pin	2
31	15236	Cotter Pin	2
32	16558	Fitting	2
32	16483	O-Ring	1
33	117317	Load Roller	2
34	58954	Snap Ring	2
35	16448	Fitting	2
35	16484	O-Ring	1
36	1330790	Pin	2
37	351458	Bearing	4
38	16006	Grease Fitting	2
39	1330052	Apron	1
40	292513	Capscrew	2
41	296420	Washer	2
42	17218	Fitting	2
43	292685	Lockwasher	4
44	319322	Bracket Wldmt (RH)	1
44	319323	Bracket Wldmt (LH)	1
45	317292	Spacer	4

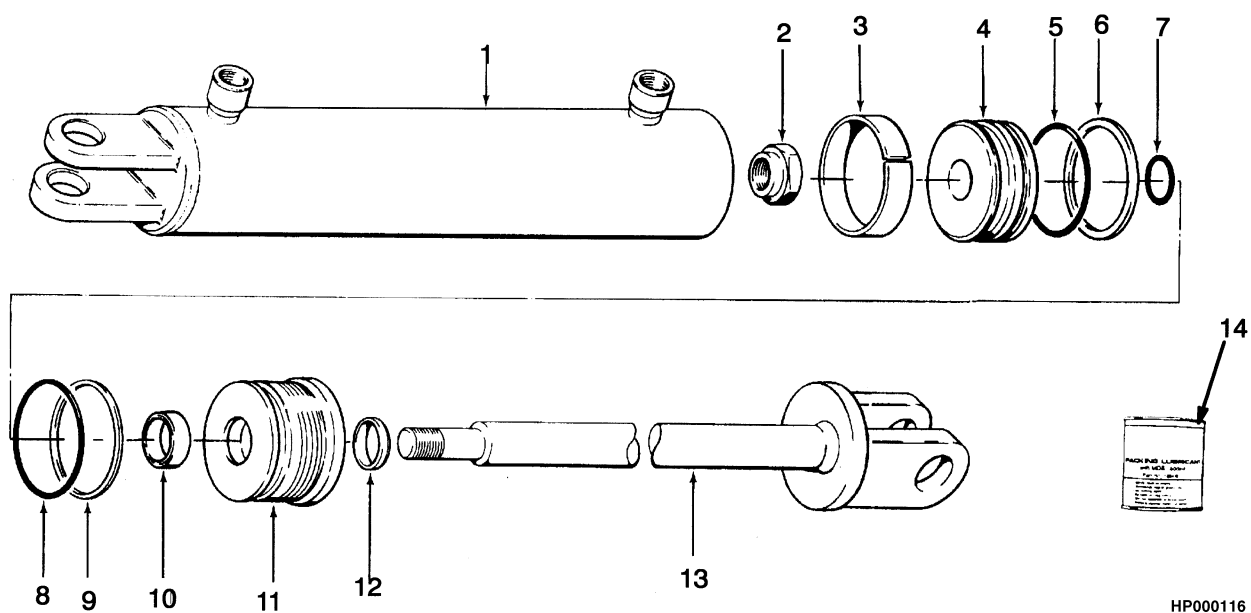
SIDE-SHIFT CARRIAGE
78-INCH – THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
46	18522	Capscrew	4
47	15155	Lockwasher	4
48	149634	Plate	2
49	226458	Capscrew	4

NOTES

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SIDE-SHIFT CYLINDER (FIGURE 11-6)

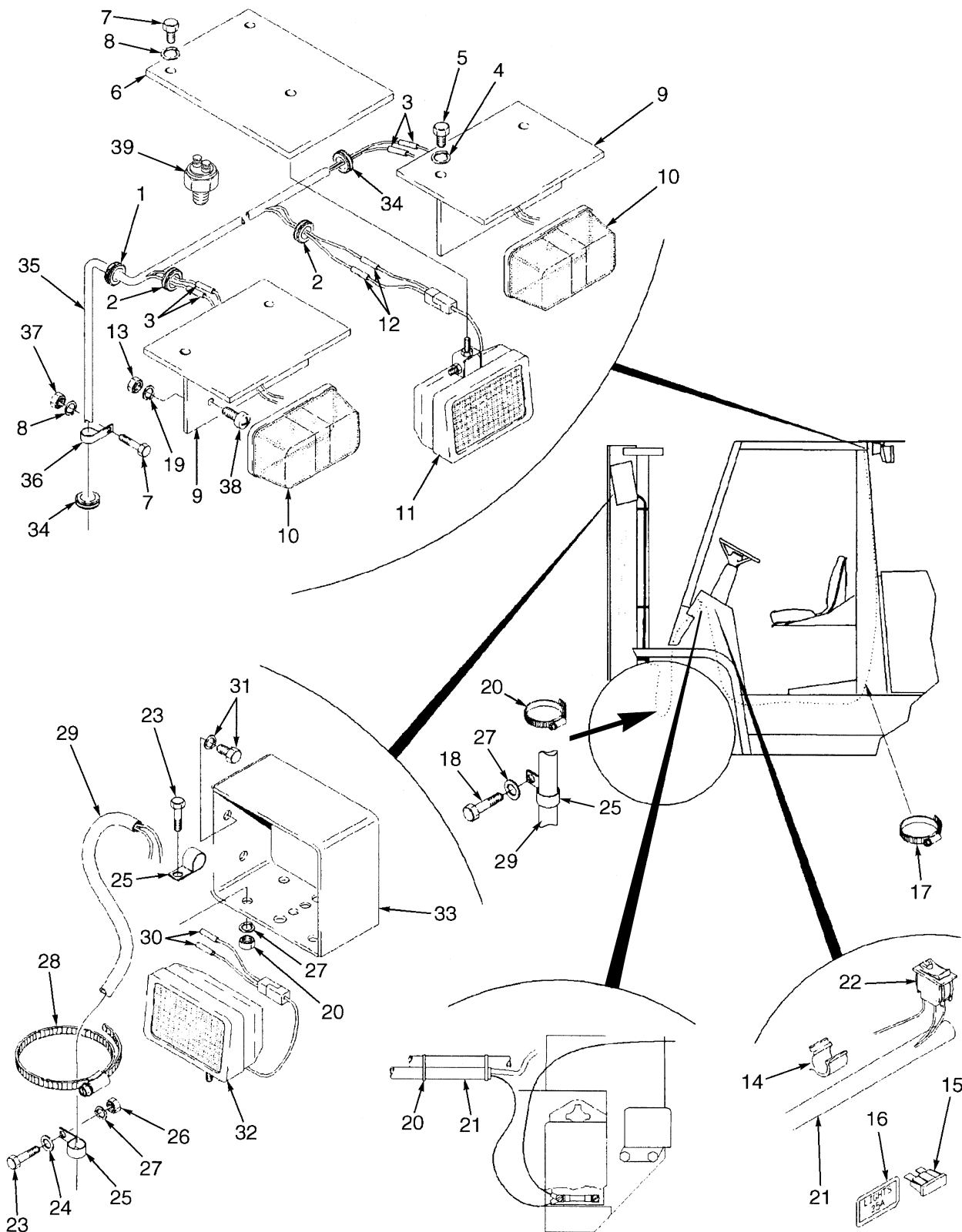


HP000116

SIDE-SHIFT CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2047836	Sideshift Cylinder	1
1	1506728	Tube Wldmt-Cylinder	1
2	53156	Locknut	1
3	300823	Wear Ring	1
4	328073	Piston	1
5	1381082	Rod Seal	1
6	2044370	Piston Seal	1
7	61056	O-Ring	1
8	46388	O-Ring	1
9	154375	Back-Up Ring	1
10	637151	Rod Seal	1
11	328220	Retainer	1
12	626468	Wiper	1
13	1344761	Rod (Optional)	1
13	358243	Rod	1
14	186061	Lubricant	AR
	369444	Kit-Seal	1

LIGHTS (FIGURE 11-7)



HP000788

LIGHTS**KEY:****A: Work Lights****B: Work and Rear Drive Lights****C: Work, Rear Drive, and Stop/Tail Lights**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	26283	Grommet	..	1	1
2	26283	Grommet	..	..	2
3	1152571	Connector	..	..	4
4	292681	Lockwasher	..	..	4
5	316678	Screw	..	..	4
6	353379	Plate	..	1	1
7	316678	Screw	..	5	5
7	358674	Sealant	..	AR	AR
7	a 280472	Sealant	..	AR	AR
8	292681	Lockwasher	..	5	5
9	383141	Bracket	..	..	2
10	353479	Lamp	..	..	2
10	389792	Lens	..	..	1
10	177521	Bulb (12 Volt)	..	..	1
11	353478	Work Light	..	1	1
11	389793	Lamp	..	1	1
11	a 357934	Head/Work Light	..	1	1
11	1350992	Lens	..	1	1
12	1152571	Connector	..	2	2
13	15052	Nut	..	..	4
14	241878	Clamp	2	2	2
15	1300134	Fuse (25 Amp)	1	1	1
16	1323595	Label (Light Fuse)	1	1	1
17	137852	Strap Clamp	..	5	5
18	287851	Capscrew	2	2	2
19	15152	Lockwasher	..	..	4
20	137852	Strap Clamp	10	10	10
21	1324181	Wire Harness	1	1	1
22	374047	Switch	1	1	1
23	176640	Bolt	2	2	2
24	15135	Washer	2	2	2
25	132131	Clamp	4	4	4
26	239503	Nut	2	2	2
27	292681	Lockwasher	4	4	4
28	129563	Strap Clamp	6	6	6
29	1324176	Wire Harness	2	2	2
30	1152571	Connector	4	4	4
31	292514	Capscrew	4	4	4
31	292682	Lockwasher	4	4	4
32	353478	Work Light	2	2	2
32	389793	Lamp	1	1	1
32	a 357934	Head/Work Light	2	2	2
32	1350992	Lens	1	1	1
33	389136	Bracket Wldmt	2	2	2
34	69727	Grommet	..	1	1

LIGHTS**KEY:****A: Work Lights****B: Work and Rear Drive Lights****C: Work, Rear Drive, and Stop/Tail Lights**

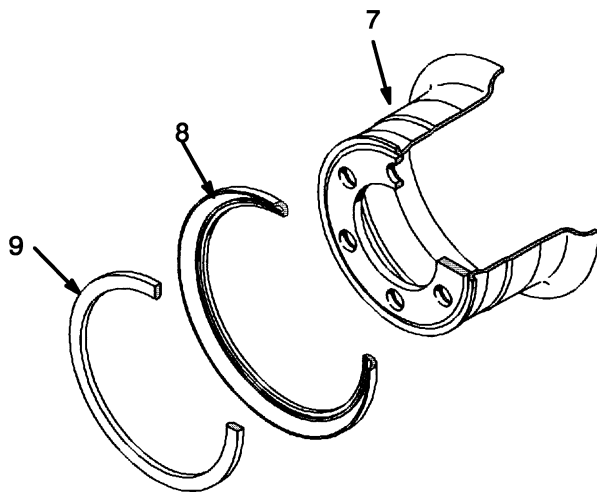
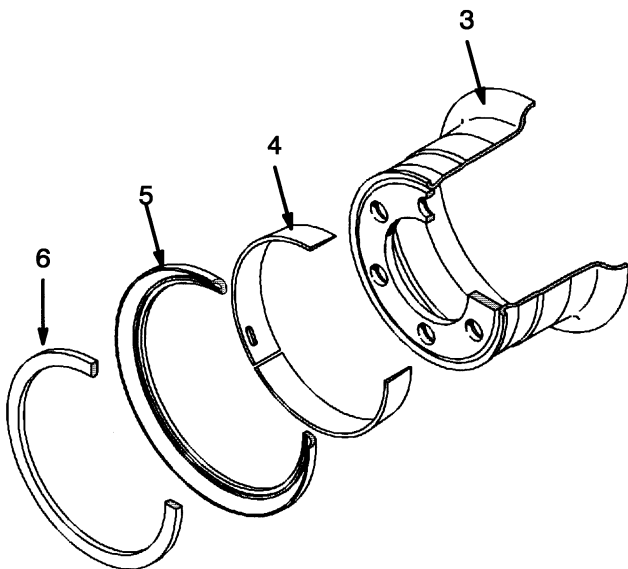
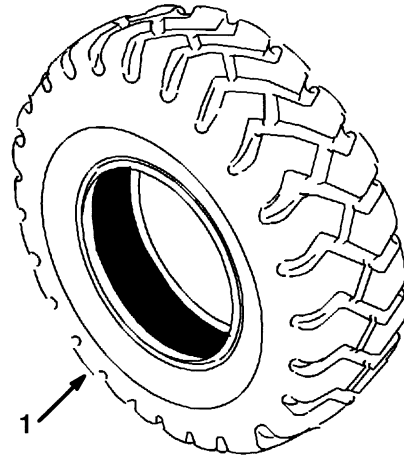
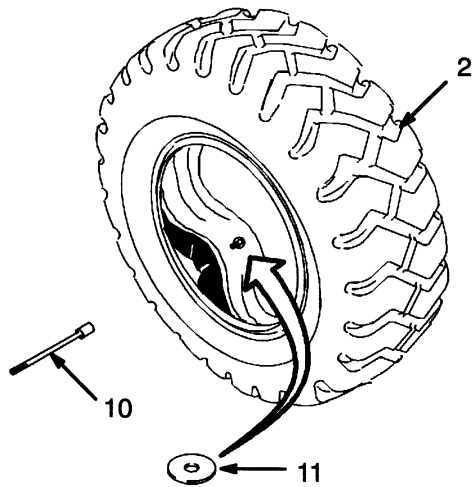
ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
35	1324182	Wire Harness	..	1	1
36	132131	Clamp	..	3	3
37	239503	Nut	..	3	3
38	1300742	Screw	..	..	4
39	387867	Pressure Switch	..	..	1

FOOTNOTES:**a** Optional

NOTES

[illegible]

TIRES AND WHEELS (FIGURE 11-8) DRIVE



HP000128

**TIRES AND WHEELS
DRIVE****KEY:****A:** 12 Ply 8.25 x 15**B:** Solid 8.25 x 15

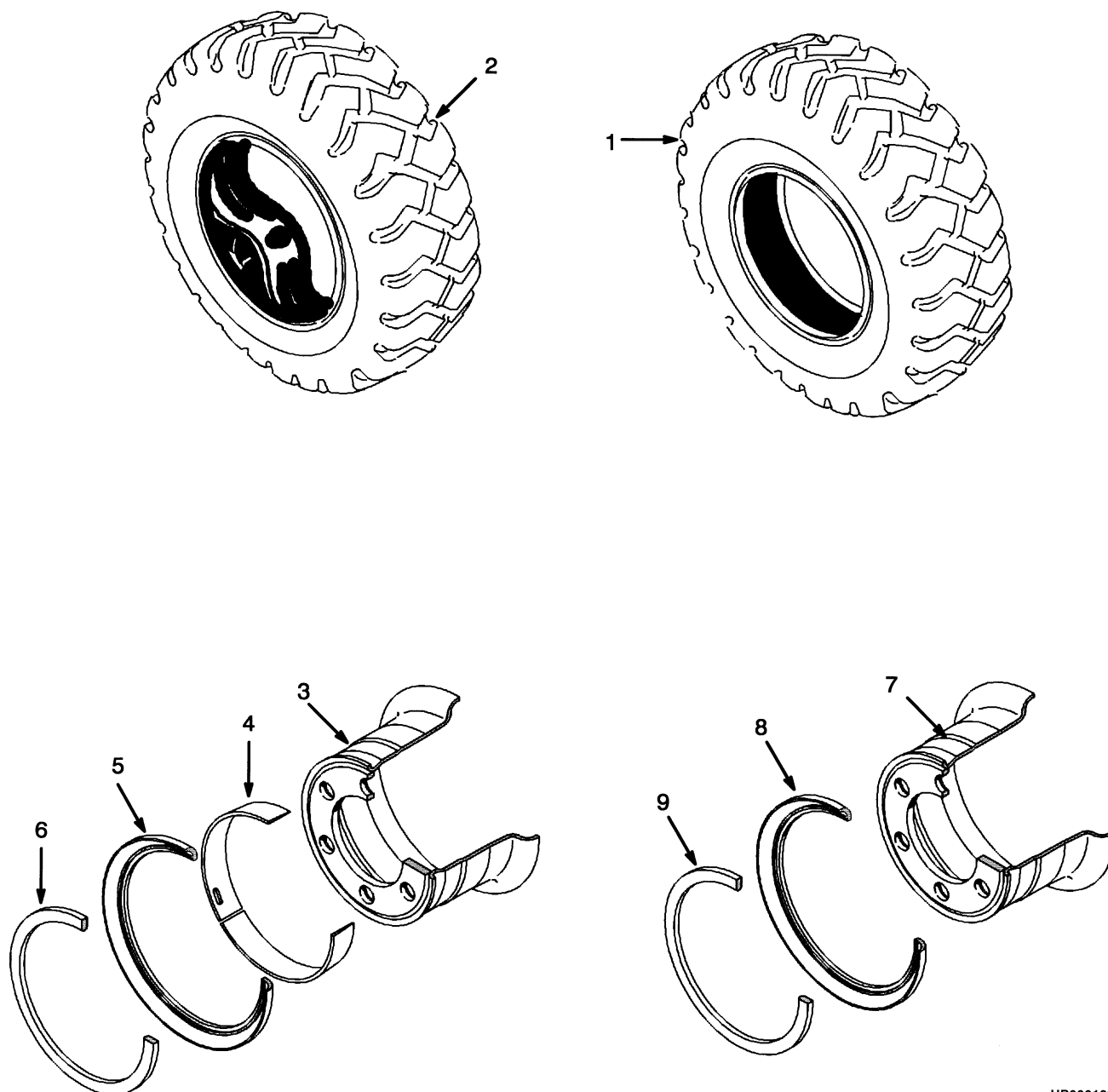
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	d 237050	Tire	..	1
1	1547352	Tire (Alternate Part)	..	1
1	c 336093	Tire	..	1
2	130616	Tire Flap	1	..
2	129846	Tire Flap (With Flap)	1	..
2		Flap	1	..
2	11280	Tire Flap	..	..
2	25722	Tire Flap	1	..
2	b 1357303	Pneumatic Tire	..	1
2	b 1358182	Tire	..	1
2	b 1358191	Tube	..	1
2	1394500	Plate (Valve Stem)	..	1
2	a 336555	Plate (Valve Stem)	..	1
2	a 1376007	Washer (Valve Stem)	..	1
2	abe 1471838	Pneumatic Tire	1	..
2	b 1358182	Tire	1	..
2	1471598	Tubeless Bead Seal	1	..
2	1471922	Tubeless Bead Seal Valve	1	..
3	340292	Wheel Assy	1	..
3	a 340292	Wheel Assy	..	1
4	806557	Shoulder Ring	1	1
5	980541	Wheel Side Ring	1	1
6	980542	Wheel Lock Ring	1	1
7	350060	Wheel Assy	..	1
8	980541	Wheel Side Ring	..	1
9	980542	Wheel Lock Ring	..	1
10	49189	Extension	1	..
11	1376007	Washer (Valve Stem)	1	..

FOOTNOTES:

a Optional
b Pneumatic Radial
c Soft Ride

d Standard Hardness
e Tubeless

TIRES AND WHEELS (FIGURE 11-9) STEERING



HP000129

KEY:**A: 12 Ply 8.25 x 15****B: Solid 8.25 x 15**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	d 237050	Tire	..	1
1	1547352	Tire (Alternate Part)	..	1
1	c 336093	Tire	..	1
2	130616	Tire Flap	1	..
2	129846	Tire Flap (With Flap)	1	..
2	25722	Tire Flap	1	..
2	b 1357303	Pneumatic Tire	..	2
2	b 1358182	Tire	..	1
2		Flap	..	1
2	1358191	Tube	..	1
2	1394500	Plate (Valve Stem)	..	1
2	a 336555	Plate (Valve Stem)	..	1
2	a 1376007	Washer (Valve Stem)	..	1
2	abe 1471838	Pneumatic Tire	..	2
2	b 1358182	Tire	..	1
2	1471598	Tubeless Bead Seal	..	1
2	1471922	Tubeless Bead Seal Valve	..	1
3	237042	Wheel Assy	1	1
4	806557	Shoulder Ring	1	1
5	980541	Wheel Side Ring	1	1
6	980542	Wheel Lock Ring	1	1
7	317498	Wheel Assy	..	1
8	980541	Wheel Side Ring	..	1
9	980542	Wheel Lock Ring	..	1

FOOTNOTES:

a Optional
b Pneumatic Radial
c Soft Ride

d Standard Hardness
e Tubeless

[illegible]

SECTION 12
FIELD CONVERSION KITS

DESCRIPTION	PAGE
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DIRECTIONAL CONTROL CONVERSION KIT	12-2
HEADER HOSE CONVERSION KITS	
THREE STAGE FULL FREE-LIFT	12-4
TWO STAGE LIMITED FREE-LIFT	12-3
MISCELLANEOUS CONVERSION KITS	12-2

MISCELLANEOUS CONVERSION KITS

DESCRIPTION	PART NUMBER
Kit-Bleedback Injectors	1589783
Kit-Bleedback Injectors	1578927
Idler Gear	1580086
Kit-Travel Speed	1456482

CONTROL VALVE CONVERSION KITS

DESCRIPTION	PART NUMBER
Kit-Hyd Valve 2 to 3 Way	1467833
Kit-Hyd Valve 2 to 4 Way	1467823
Kit-Hyd Valve 3 to 4 Way	1468589

DIRECTIONAL CONTROL CONVERSION KIT

DESCRIPTION	PART NUMBER
Kit-Monotrol to Fwd/Rev Lever	b 1324666
Kit-Monotrol to Fwd/Rev Lever	a 1309085

FOOTNOTES:

- a** With Steering Column and 2 Speed
b With Steering Pod and 2 Speed

**HEADER HOSE CONVERSION KITS
TWO STAGE LIMITED FREE-LIFT****THREE TO FOUR FUNCTION**

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS			
	2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
Kit-Hose Group 3 to 4 Way	1393925	1393932	1393939	1393945

TWO TO FOUR FUNCTION

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS			
	2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
Kit-Hose Group 2 to 4 Way	1393927	1393934	1393941	1393946

TWO TO THREE FUNCTION

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS			
	2340 mm (92.1 in.)	3340 mm (131.5 in.)	4340 mm (170.9 in.)	5340 mm (210.2 in.)
Mast Group Number	A513 2340	A513 3340	A513 4340	A513 5340
Kit-Hose Group 2 to 3 Way	1393923	1393930	1393937	1393944

**HEADER HOSE CONVERSION KITS
THREE STAGE FULL FREE-LIFT****THREE TO FOUR FUNCTION**

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS		
	3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
Mast Group Number	A514 3590	A514 4538	A514 5540
Kit-Hose Group 3 to 4 Way	1393952	1393959	1393966

TWO TO FOUR FUNCTION

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS		
	3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
Mast Group Number	A514 3590	A514 4538	A514 5540
Kit-Hose Group 2 to 4 Way	1393954	1393961	1393968

TWO TO THREE FUNCTION

DESCRIPTION	LIFT HEIGHT TO BOTTOM OF FORKS		
	3590 mm (141.3 in.)	4538 mm (178.7 in.)	5540 mm (218.1 in.)
Mast Group Number	A514 3590	A514 4538	A514 5540
Kit-Hose Group 2 to 3 Way	1393950	1393957	1393964

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11286	5-31	28		8-23	29		3-23	6		2-11	2
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	2-25	15	1393704	8-15	4	1450941	2-47	9		2-59	1
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1460384	2-45	9	1465574	6-13	3	1470164	1-10			4-11	7
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1460477	2-13	21	1465575	6-13	11	1471345	8-5	16	1482668	4-45	5
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	3-7	4	1466348	1-19	2	1471558	2-35	29		4-61	5
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1493293	9-3	1	1500402	2-13	22	1514965	2-36	46		4-59	35
1493442	4-51	26		2-69	32	1514968	2-33	13	1528482	3-11	14
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1493448	4-49	5		2-11	21	1515138	3-29	1		3-25	31
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1494077	1-9	2	1502038	3-21	8	1523680	2-13	23	1528824	3-9	9
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1496475	3-9	17	1502066	3-3	17		2-53		1529010	2-16	2
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1541597	2-67	11	1544970	6-9	3	1554943	2-69	18	1555095	2-53	12
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1541609	4-45	3	1546283	2-29	26	1554980	2-49	7	1555105	2-75	16
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1541991	4-63	17	1547482	4-51	10	1554985	2-55	1	1555262	2-75	2
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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.

