

PARTS MANUAL

CHALLENGER

**H70XM-H120XM
(L005)**

CUSTOMER EDITION

HYSTER

SECTIONS

1	FRAME	
2	ENGINE ASSEMBLY	
3	FUEL SYSTEM	
4	ELECTRICAL SYSTEM	
5	TRANSMISSION	
6	DRIVE AXLE	
7	STEERING SYSTEM	
8	BRAKE SYSTEM	
9	HYDRAULIC SYSTEM	
10	MAST-TWO STAGE LIMITED FREE-LIFT	
11	MAST-TWO STAGE FULL FREE-LIFT	
12	MAST-THREE STAGE FULL FREE-LIFT	
13	OPTIONS	
14	NUMERICAL INDEX	

This Parts Manual is divided into 14 major sections which are listed above. Quick reference to these sections can be made by placing the right thumb on the tab of the desired section, bending the book back and thumbing the pages to the corresponding tab.

TABLE OF CONTENTS

DESCRIPTION	PAGE
A	
ACCUMULATOR	
MAST LOAD DAMPENING.....	13-42
AIR FILTER	
DIESEL TIER II.....	3-4
GAS AND LPG.....	3-18
AIR INTAKE AND FILTER SYSTEM	
DIESEL TIER II.....	3-2
GAS AND LPG.....	3-16
ALTERNATOR	
PRESTOLITE BRAND	
GS, LPS, DS	4-22
ASSEMBLED ENGINE	
DIESEL TIER II.....	2-18
AUXILIARY TUBE EXTENSION KIT	
TWO AND THREE STAGE FULL FREE-LIFT	13-64
TWO STAGE LIMITED FREE-LIFT.....	13-62
B	
BACK-UP ALARM	13-4
BRAKE ASSEMBLY	
H100-120XM.....	8-12
H70-90XM.....	8-8
BRAKE SYSTEM.....	8-2
C	
CAB	
ATTACHING PARTS	
1 OF 6	13-16
2 OF 6	13-18
3 OF 6	13-20
4 OF 6	13-22
5 OF 6	13-24
6 OF 6	13-26
DOOR ASSEMBLY	
LEFT HAND	13-28
RIGHT HAND	13-30
WIRE HARNESSSES	13-32
CAB WIRE HARNESS	
HEADLIGHT AND HANDHELD LIGHT	13-35
WORKLIGHTS AND STROBE LIGHT	13-34
CAMSHAFT AND OIL PAN	
GASOLINE AND LPG	
4.3L EPA COMPLIANT.....	2-54
CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-30
TWO STAGE FULL FREE-LIFT	11-18
TWO STAGE LIMITED FREE-LIFT.....	10-14
CONTROL VALVE	
TRANSMISSION.....	5-16
COOLING SYSTEM	2-4

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
C (continued)	
COUNTERWEIGHTS	1-16
CRANKSHAFT AND PISTONS	
DIESEL TIER II	2-26
CYLINDER BLOCK	
DIESEL TIER II	2-20
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-52
CYLINDER HEAD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-62
CYLINDER HEAD AND INDUCTION MANIFOLD	
DIESEL TIER II	2-22
D	
DIFFERENTIAL ASSEMBLY	6-5
DIRECTIONAL CLUTCH	
FORWARD	5-14
DISTRIBUTOR ASSEMBLY	
4.3 L EPA COMPLIANT ENGINE	4-21
DRIP SHIELD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-68
DRIVE AXLE	6-2
DRIVE TIRES AND WHEELS	
DUAL	13-70
SINGLE	
H70-H90XM	6-6
H90-H120XM	6-8
DUAL MIRRORS	
WITHOUT CAB	13-14
E	
ELECTRICAL SYSTEM	
ALTERNATOR AND BATTERY	
G, GS, LPG AND LPS	4-10
COWL	4-2
DIESEL TIER II	4-14
ENGINE COMPARTMENT	
GASOLINE AND LPG	4-8
TYPE DS	4-18
ENGINE ASSEMBLY	
GASOLINE	
4.3 L EPA COMPLIANT	2-48
LPG	
4.3 L EPA COMPLIANT	2-46
ENGINE BELT DRIVE AND ALTERNATOR MOUNTING	
4.3L EPA COMPLIANT ENGINE	2-10
ENGINE FUEL SYSTEM	
4.3 L EPA COMPLIANT	

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
E (continued)	
LPG	3-22
ENGINE MOUNT	
DIESEL TIER II	2-16
ENGINE MOUNTING	
GASOLINE AND LPG	2-44
EXHAUST	
DIESEL TIER II	2-14
GAS AND LPG	2-12
EXHAUST MANIFOLD	
DIESEL TIER II	2-34
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-50
F	
FAN DRIVE ASSEMBLY	2-8
FENDER EXTENSIONS	13-68
FLOOR PLATES AND COVERS	1-8
FLYWHEEL AND TORQUE CONVERTER	5-10
FORKS	
POLISHED FORK WITH FULL BOTTOM TAPER HOOK TYPE	1-34
STANDARD TAPER HOOK TYPE	
(H100-120XM)	1-33
(H70-90XM)	1-32
FREE-LIFT	
THREE STAGE FULL FREE-LIFT	12-18
FREE-LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	12-26
TWO STAGE FULL FREE-LIFT	11-14
FRONT HEADLIGHTS	
WITHOUT CAB	13-8
FUEL FILTER	
DIESEL TIER II	3-14
FUEL FILTER AND SENDER	
DIESEL TIER II	3-12
FUEL INJECTION PUMP	
DIESEL TIER II	2-40
FUEL PUMP AND WATER SEPERATOR	
DIESEL TIER II	3-8
FUEL SUPPLY SYSTEM	
DIESEL TIER II	3-6
GASOLINE	3-28
LPG	3-20
FULL SUSPENSION SEAT	
1 OF 2	1-12
2 OF 2	1-14

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
G	
GENERAL TRUCK	1-2
H	
HEADER HOSE	
THREE STAGE FULL FREE-LIFT	12-32
TWO STAGE FULL FREE-LIFT	11-20
TWO STAGE LIMITED FREE-LIFT	10-16
HEATER INSTALLATION	
DIESEL TIER II	13-40
GASOLINE.....	13-36
LPG.....	13-38
HIGH AND LOW VALVE	5-19
HOOD AND COVERS	1-6
HYDRAULIC CONTROL LINES	
FOUR FUNCTION	9-8
THREE FUNCTION	9-6
HYDRAULIC CONTROL VALVE	
THREE AND FOUR FUNCTION	9-14
HYDRAULIC CONTROL VALVE AND ATTACHING PARTS	
FOUR FUNCTION	
WITH DETENTED LEVERS.....	9-12
THREE FUNCTION	
WITH AND WITHOUT DETENTED LEVERS	9-10
HYDRAULIC FILTER HOUSING	9-16
HYDRAULIC PUMP.....	9-18
HYDRAULIC SYSTEM	9-2
I	
INNER MAST	
THREE STAGE FULL FREE-LIFT	12-10
TWO STAGE LIMITED FREE-LIFT.....	10-4
INNER MAST AND FREE LIFT	
TWO STAGE FULL FREE-LIFT	11-6
INPUT CLUTCH	
REVERSE.....	5-12
INSTRUMENT PANEL.....	4-6
INTAKE MANIFOLD AND FUEL RAIL	
GASOLINE	
4.3 L EPA COMPLIANT.....	2-66
INTEGRAL SIDE-SHIFT ASSEMBLY	
H100XM-120XM (54 AND 60 INCH)	
TWO AND THREE STAGE FULL-FREE-LIFT	13-58
H100XM-H120XM (54 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-48
H70XM - H90XM (48 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-44
H70XM-90XM (48 AND 60 INCH)	
TWO AND THREE STAGE FULL FREE-LIFT.....	13-52
INTEGRAL SIDE-SHIFT CARRIAGE	
H100XM - H120XM (54 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-50

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
I (continued)	
H100XM-H120XM (54 AND 60 INCH) TWO AND THREE STAGE FULL FREE-LIFT	13-60
H70XM - H90XM (48 AND 60-INCH) TWO STAGE LIMITED FREE-LIFT	13-46
H70XM-90XM (48 INCH) TWO AND THREE STAGE FULL FREE-LIFT	13-54
H70XM-H90XM (60 INCH) TWO AND THREE STAGE FULL FREE-LIFT	13-56
INTERMEDIATE MAST THREE STAGE FULL FREE-LIFT	12-6
L	
LABELS AND DECALS	1-26
LIFTING EYES	13-67
LOAD BACKREST EXTENSION	1-30
LPG REGULATOR 4.3 L EPA COMPLIANT	3-26
LPG TANK BRACKET FIXED	3-32
SWING OUT	3-34
SWING OUT/DROP DOWN	3-36
M	
MAIN LIFT THREE STAGE FULL FREE-LIFT	12-14
TWO STAGE LIMITED FREE-LIFT	10-6
MAIN LIFT CYLINDERS THREE STAGE FULL FREE-LIFT	12-22
TWO STAGE FULL FREE-LIFT	11-10
TWO STAGE LIMITED FREE-LIFT	10-10
MANIFOLD VALVE	5-18
MAST INSTALLATION	9-20
MASTER CYLINDER AND BOOSTER ASSEMBLY	8-6
MONOTROL PEDAL	3-48
MONOTROL PEDAL AND BRACKET ASSEMBLY	3-46
N	
NON-SUSPENSION SEAT	1-10
O	
OIL COOLER DIESEL TIER II	2-38
OIL FILTER DIESEL TIER II	2-36
OIL PAN AND PUMP DIESEL TIER II	2-28
OIL PUMP GASOLINE AND LPG 4.3L EPA COMPLIANT	2-64

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
O (continued)	
OPERATOR MODULE	1-4
OUTER MAST	
THREE STAGE FULL FREE-LIFT	12-2
TWO STAGE LIMITED FREE-LIFT	10-2
OUTER MAST AND MAIN LIFT	
TWO STAGE FULL FREE-LIFT	11-2
OVERHEAD GUARD	1-20
P	
PARK BRAKE	8-16
Q	
QUICK DISCONNECT FITTINGS	13-66
R	
REAR ACCESS SCREEN	1-18
REAR DRIVE LIGHT	
WITHOUT CAB	13-10
ROTARY EXHAUSTER	
DIESEL TIER II	2-42
S	
SHIFT LEVER	7-6
SOUND REDUCTION	1-22
STARTER	
DIESEL TIER II	4-24
STEER AXLE	7-8
STEER COLUMN	7-4
STEER CYLINDER	7-12
STEER PUMP	7-14
STEER TIRES AND WHEELS	7-16
STEERING SYSTEM	7-2
STROBE LIGHT	
AMBER	
WITHOUT CAB	13-12
T	
THROTTLE ARM ASSEMBLY	3-42
THROTTLE BODY AND LPG MIXER	
4.3 L EPA COMPLIANT	3-24
THROTTLE BODY ASSEMBLY	
4.3 L EPA COMPLIANT	
GASOLINE	3-30
THROTTLE LINKAGE	
DIESEL TIER II	3-44
GASOLINE AND LPG	
FORWARD AND REVERSE LEVER	3-38
MONOTROL PEDAL	3-40
TILT CYLINDERS	9-22

TABLE OF CONTENTS (Continued)

DESCRIPTION	PAGE
T (continued)	
TIMING GEAR	
DIESEL TIER II	2-32
TRANSMISSION	
1 OF 2	5-2
2 OF 2	5-6
TRANSMISSION LINES	5-20
TRANSMISSION MOUNT	5-22
U	
UNDERCARRIAGE PAN	1-24
V	
VALVE COVER AND INLET MANIFOLD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-58
VALVE COVER AND ROCKER ARM SHAFT	
DIESEL TIER II	2-24
W	
WATER PUMP AND OUTLET	
DIESEL TIER II	2-30
WATER SEPARATOR	
DIESEL TIER II	3-10
WIRE HARNESS	
BACK-UP ALARM	13-6
MODULE	
SHEET 1 OF 2	4-28
SHEET 2 OF 2	4-32
SEALED ALTERNATOR	4-36
WIRE HARNESS (ENGINE)	
DIESEL TIER II	4-26

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
EPROM	Electrically Programmable Read Only Memory	UL Type GS	Gasoline-Powered Safety Rating
		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

TABLE OF CONTENTS

DESCRIPTION	PAGE
AIR INTAKE AND FILTER DIESEL (⇒ D/B 11/96 ⇒)	3-22
AIR INTAKE AND FILTER DIESEL (D/B 11/96 ⇒)	
AIR INTAKE AND FILTER GASOLINE AND LPG	
ALTERNATOR GASOLINE, LPG, AND DIESEL	
ALTERNATOR TYPES GS, LPS, AND DS	
AUXILIARY FUNCTION TUBE TWO AND THREE STAGE FULL F	

SECTION 13 NUMERICAL INDEX

PART NO.	ITEM NO.	PAGE	PART NO.	ITEM NO.	PAGE	PART NO.	ITEM NO.	PAGE
142	3-4	19	10-13	25	11-27	29	12-31	12
12445	3-32	19	10-17	6	11-31	25	3-35	5
	3-34	1	10-27	11	11-32	37	16751	3-16
			11	6	8-4	29	16845	3-34
			11	6	8-4	45	3-36	20
			12	11	8-8	34	16863	3-26
			12	6	9-7	9	16865	3-6
			13	17	9-7	19	16882	4-27
			13	10	9-11	9	9-7	30
			23	46	10-9	21	9-11	27
			27	46	10-13	16	10-10	36
			26	14	10-9	28	10-13	32
			28	14	11-7	18	11-7	24
			30	14	11-9	17	11-9	17

SECTIONS

1
2
3
4
5
6
7
8
9
10
11

FRAME

ELECTRICAL SYSTEM

BRAKE/ACC

MAST-TWO STAGE

MAST-THREE STAGE

MAST-TWO STAGE

TRANSMISSION HOUSING
⇒ S/N D001H-2628

KEY:
A: Diesel
B: Gasoline and LPG

ITEM	PART NO.	DESCRIPTION	QTY
	2022547	Transmission	1
	2023329	Transmission	1
	2021670	Case	2
1	2023418	Washer	4
2	296426	Bolt	4
3	293582	Washer	2
4	2021390	Coil	2
5	1371655	Coil Pin	4
6	2021329	O-Ring	1
7	2021915	Plug	4
8	2021675	Housing	22
9	2021336	Pin	39
10	287860	Bolt	1
11	292682	Lockwasher	1
12	292682	Hydraulic Pump	1
13		Figure 5-3	8
14	2021345	Gasket	8
15	214364	Bolt	1
16	296418	Washer	1
17	2021388	Temperature Switch	1
18	2021389	Breather	9
19	2021383	Dipstick	9
20	292515	Nut	2
21	136892	Bolt	3
22	292527	Capscrew	2
23	292531	Lockwasher	3
24	292683	Bolt	2
25	293837	Washer	4
26	296420	Washer	4
	996403	Transmission Kit (Includes Item 7)	1
	996405	Transmission Kit (Includes Item 14)	1

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

See Service Manual for service procedures.

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5-15

HP990004

HOW TO FIND THE DESIRED PART NUMBER

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

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

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

3. Determine the assembly the required part is used on. Turn to the Table of Contents on 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 on Page 14-1 to find the part number. Turn to the page listed and locate the part as indicated by the item number.

GENERAL:

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

6. 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 D001H-2628**
Indicates last serial number affected.
 - S/N D001H-2629** ⇒
Indicates the first serial number affected.
 - S/N D001H-1553 ⇔ S/N D001H-3291**
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.

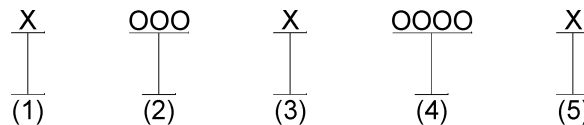
Contact your local dealer for Hyster lift trucks for serial number information for items with a ECN or a date break.

ORDERING PARTS:

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

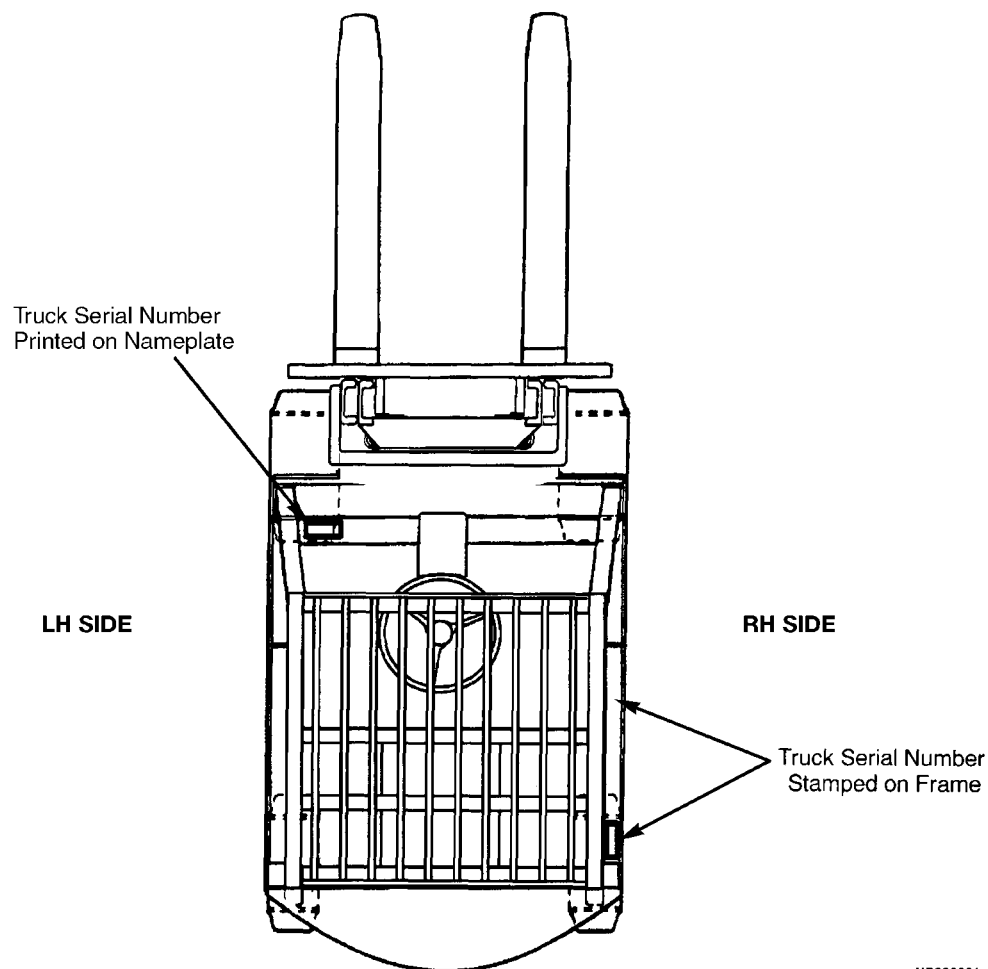
For any further information on parts, service, or ordering, consult your local dealer for Hyster lift trucks.

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 and 1980. The letters "I", "O", and "Q" will not be used.

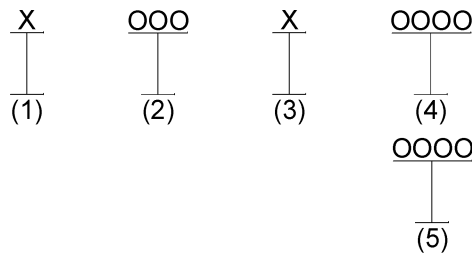
For pending serial numbers contact your local dealer for Hyster lift trucks.



HP990001

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

IDENTIFICATION OF MAST SERIAL NUMBERS



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

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

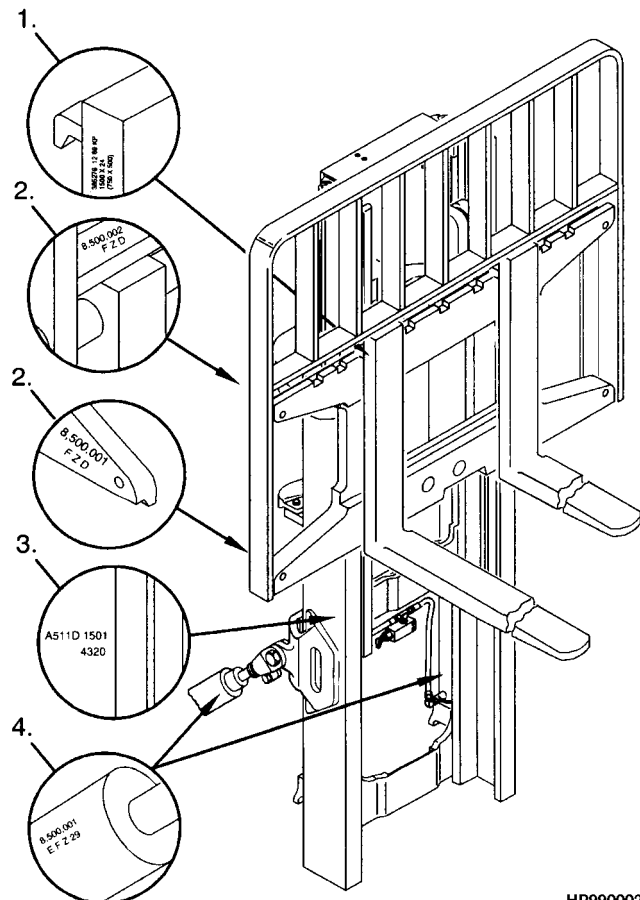
For pending production sequence numbers contact your local dealer for Hyster lift trucks.

LIFT EQUIPMENT IDENTIFICATION

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

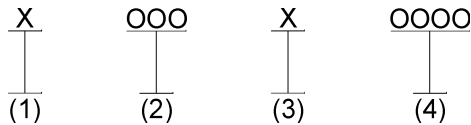
Always refer to the group, serial, or part number when ordering service parts.

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



HP990002

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS

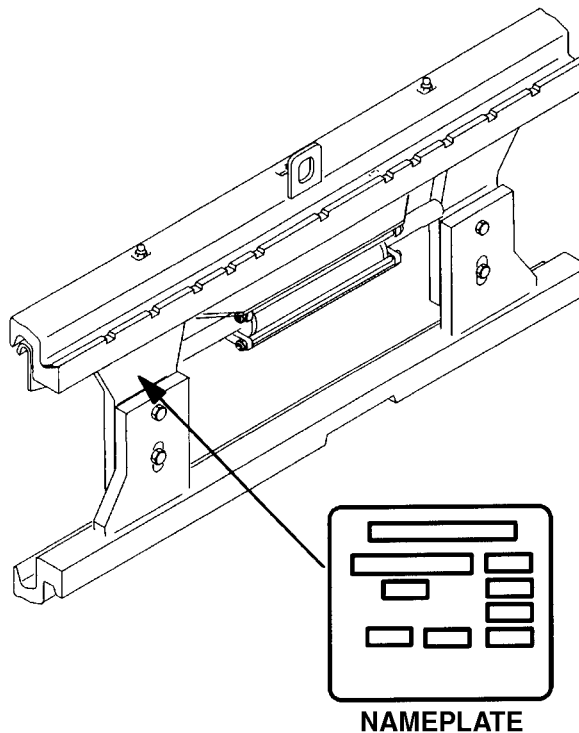


(1) and (2) The first letter and three numbers indicate the attachment unit code.

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

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

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



HP990003

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

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

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

PUBLICATIONS

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

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

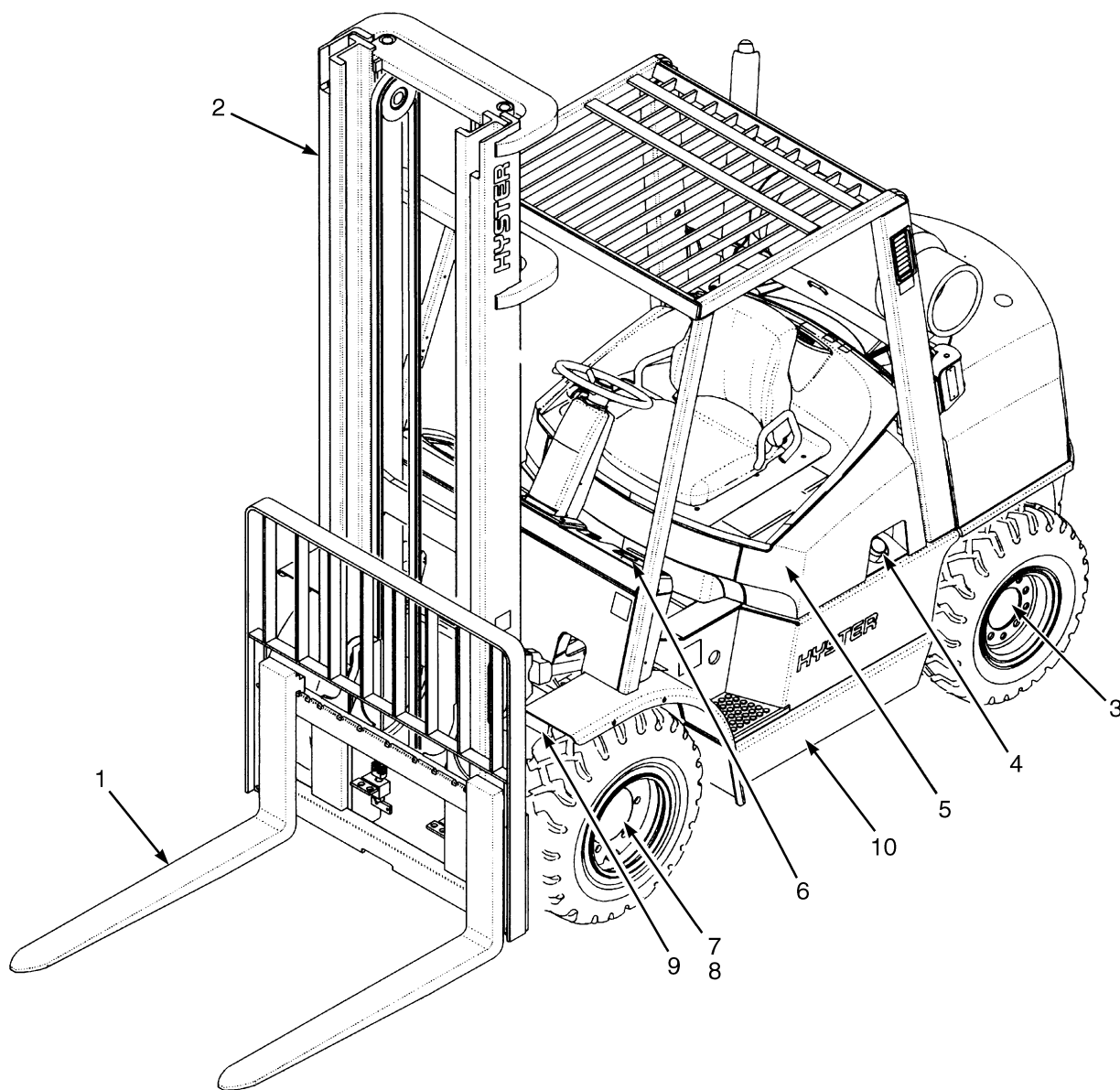
PUBLICATION	HYSTER PART NUMBER
Operating Manual	1466306
Service Manual (Complete)	1560150
Parts Manual	1560144

1	FRAME	
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SECTION 1
FRAME

DESCRIPTION	PAGE
COUNTERWEIGHTS	1-16
FLOOR PLATES AND COVERS	1-8
FORKS	
POLISHED FORK WITH FULL BOTTOM TAPER HOOK TYPE	1-34
STANDARD TAPER HOOK TYPE	
(H100-120XM)	1-33
(H70-90XM)	1-32
FULL SUSPENSION SEAT	
1 OF 2	1-12
2 OF 2	1-14
GENERAL TRUCK	1-2
HOOD AND COVERS	1-6
LABELS AND DECALS	1-26
LOAD BACKREST EXTENSION	1-30
NON-SUSPENSION SEAT	1-10
OPERATOR MODULE	1-4
OVERHEAD GUARD	1-20
REAR ACCESS SCREEN	1-18
SOUND REDUCTION	1-22
UNDERCARRIAGE PAN	1-24

GENERAL TRUCK (Figure 1-1)

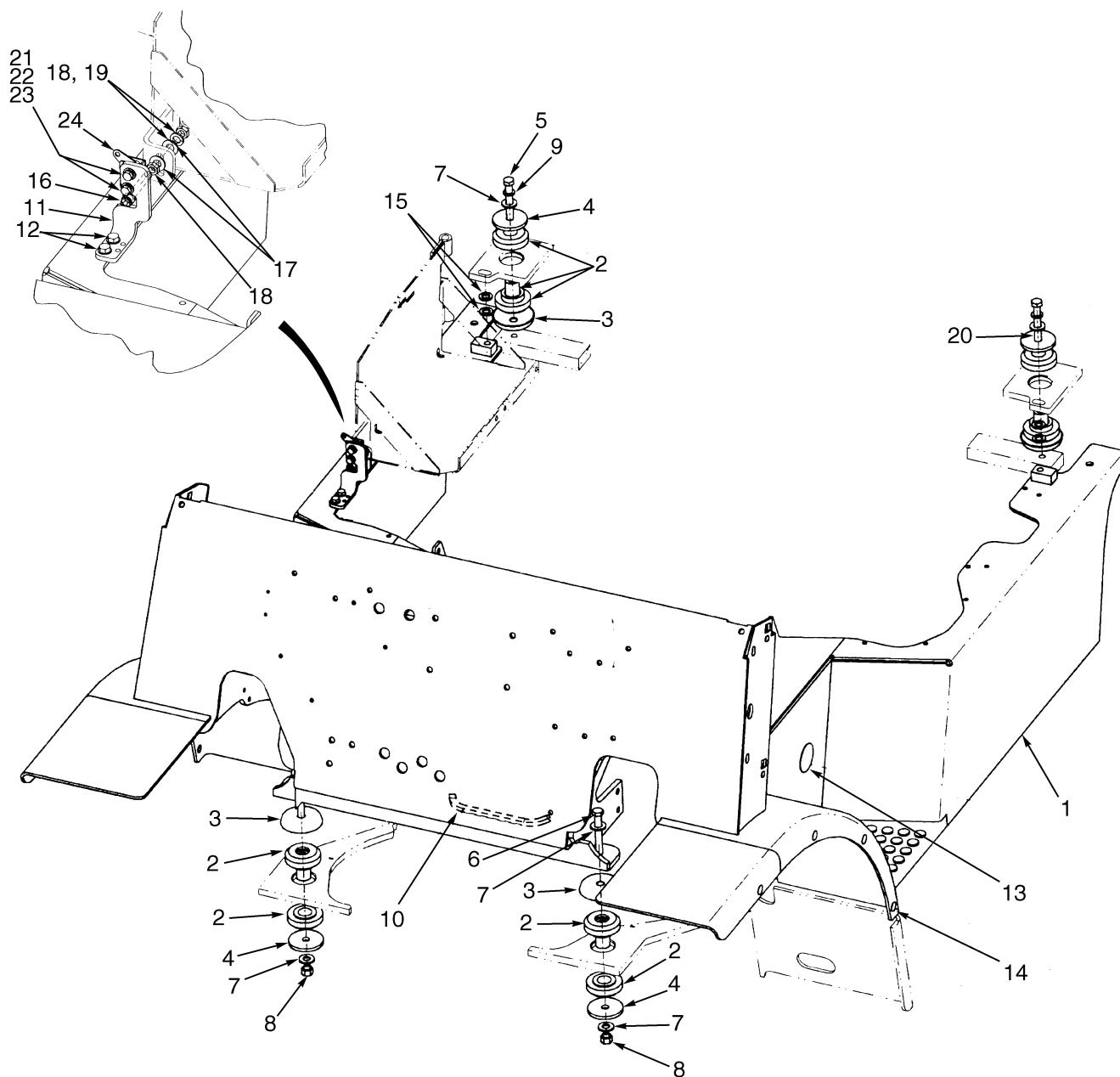


HP990026

GENERAL TRUCK

ITEM	PART NO.	DESCRIPTION	QTY
1		Forks (☞ Figure 1-15, ☞ Figure 1-16, ☞ Figure 1-17)	1
2		Mast-Two Stage Limited Free-Lift (☞ Figure 10-1)	1
2		Mast-Two Stage Full Free-Lift (☞ Figure 11-1)	1
2		Mast-Three Stage Full Free-Lift (☞ Figure 12-1)	1
3		Steering System (☞ Figure 7-1)	1
4		Fuel System (☞ Figure 3-3, ☞ Figure 3-10, ☞ Figure 3-14)	1
5		Engines (☞ Figure 2-7, ☞ Figure 2-21, ☞ Figure 2-22)	1
6		Electrical (☞ Figure 4-1, ☞ Figure 4-2, ☞ Figure 4-5, ☞ Figure 4-6)	1
7		Drive Axle (☞ Figure 6-1)	1
8		Brake System (☞ Figure 8-1)	1
9		Hydraulic System (☞ Figure 9-1)	1
10		Options (☞ Figure 13-3, ☞ Figure 13-4, ☞ Figure 13-5)	1

OPERATOR MODULE (Figure 1-2)

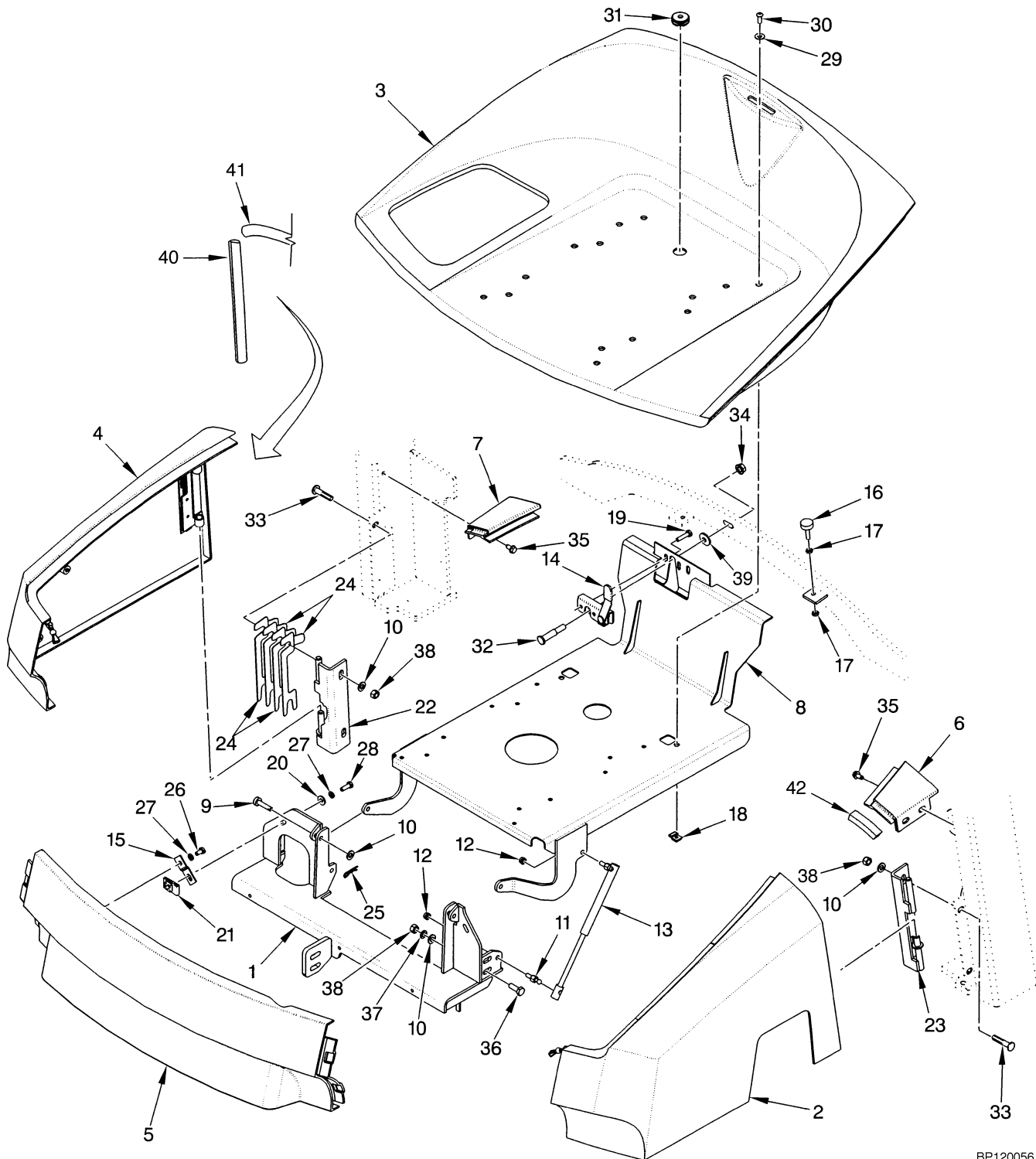


BP120049

OPERATOR MODULE**KEY:****A: 1830 mm Short Wheel Base****B: 2100 mm Long Wheel Base**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1493147	Operator Module.....	1	..
1	1493148	Operator Module.....	..	1
2	1378168	Mount.....	4	4
3	1378197	Cup	4	4
3	1351098	Cup (Optional)	4	4
4	300939	Washer	4	4
5	293657	Capscrew.....	2	2
5	2037998	Stud (Optional)	2	2
5	302402	Nut (Optional)	2	2
6	293658	Capscrew.....	2	2
7	296423	Washer	6	6
8	302402	Nut	2	2
9	292683	Lockwasher.....	2	2
10	1396024	Trim	1	1
11	1476761	Bracket.....	1	1
12	316678	Screw.....	2	2
13	1398009	Plug	2	2
14	1399760	Plug	8	8
15	296422	Washer	4	4
16	18762	Capscrew.....	1	1
17	15134	Washer	2	2
18	15086	Nut	2	2
19	15156	Lockwasher.....	1	1
20	264134	Sealant	AR	AR
21	18462	Capscrew.....	2	2
22	15154	Lockwasher.....	2	2
23	15127	Washer	2	2
24	1476422	Latch (Rotary).....	1	1

HOOD AND COVERS (Figure 1-3)

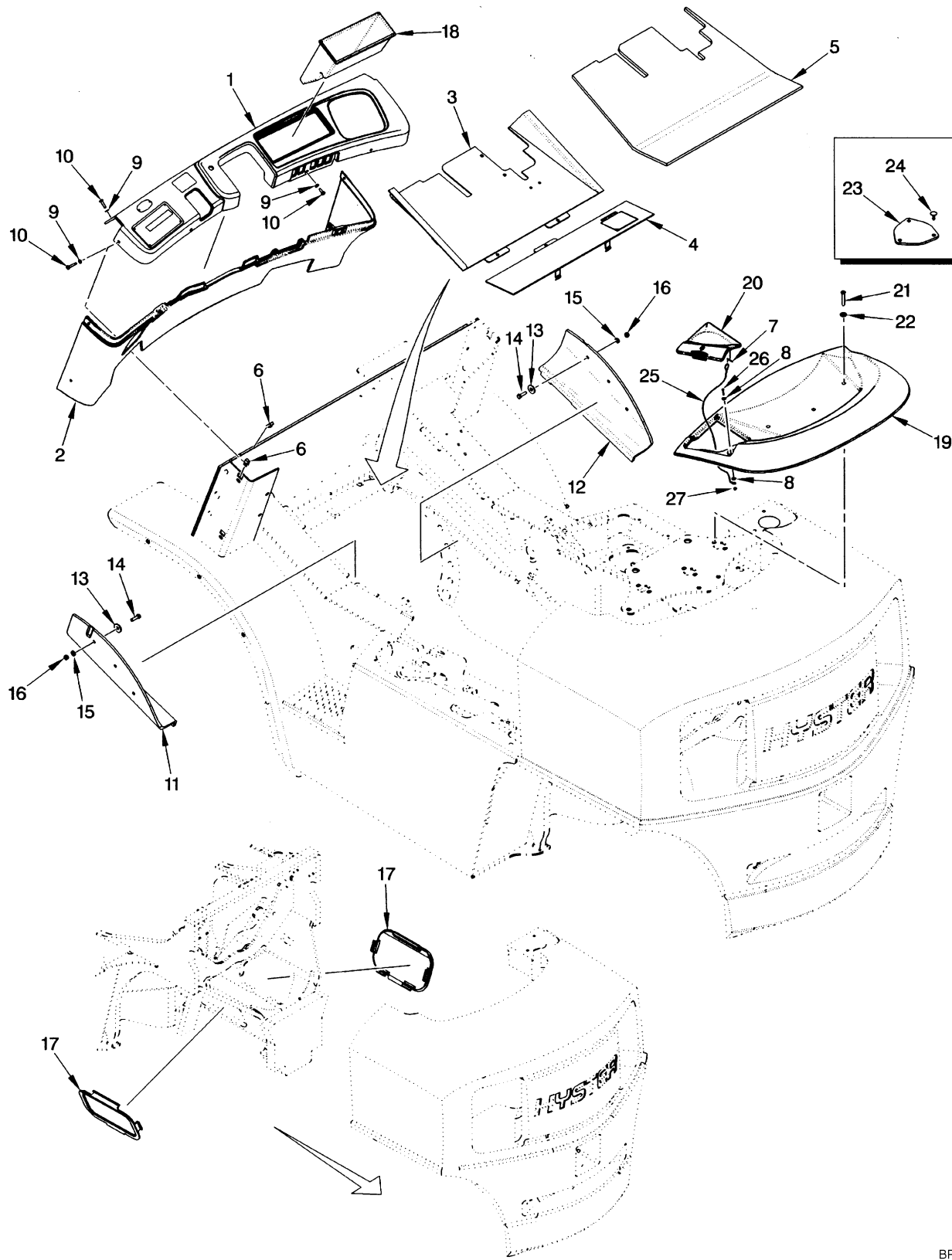


BP120056

HOOD AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1531582	Crossmember	1
2	1397957	Panel (LH) (LPG)	1
2	1397958	Panel (LH) (Diesel, Gas, Dual Fuel)	1
3	1397960	Hood	1
4	1396626	Panel (RH)	1
5	1396625	Cover (Front).....	1
5	1392718	Latch (Over Center).....	2
6	1397964	Corner (LH) (Without Cab)	1
6	1485280	Corner (LH) (With Cab)	1
7	1397963	Corner (RH) (Without Cab)	1
7	1485281	Corner (RH) (With Cab).....	1
8	1531579	Seat Pan	1
9	2021207	Pin	2
10	320159	Washer	10
11	1350285	Stud (Ball)	1
12	316835	Nut	4
13	1518858	Gas Spring Assembly	2
13	1513907	Ball Stud	2
14	2036143	Latch	1
15	2036866	Bracket.....	2
16	1347088	Stop Screw	2
17	15001	Nut	4
18	1385535	Nut	2
19	1529238	Capscrew.....	2
20	320158	Washer	4
21	1364259	Clip	2
22	1470010	Hinge (RH).....	1
23	1470009	Hinge (LH)	1
24	2036142	Shim (0.047 in.)	4
25	1362714	Cotter Pin.....	2
26	287851	Capscrew.....	2
27	292681	Lockwasher.....	4
28	136749	Capscrew.....	2
29	375629	Washer	2
30	370599	Capscrew.....	2
31	1359587	Grommet.....	1
32	1471866	Striker	1
33	1470021	Bolt	4
34	264144	Nut	1
35	316678	Screw.....	4
36	136985	Capscrew.....	8
37	320157	Washer	2
38	316826	Nut	2
39	2036863	Washer	1
40	1464909	Trim	2
41	1396658	Seal	2
42	1466416	Seal	2

FLOOR PLATES AND COVERS (Figure 1-4)



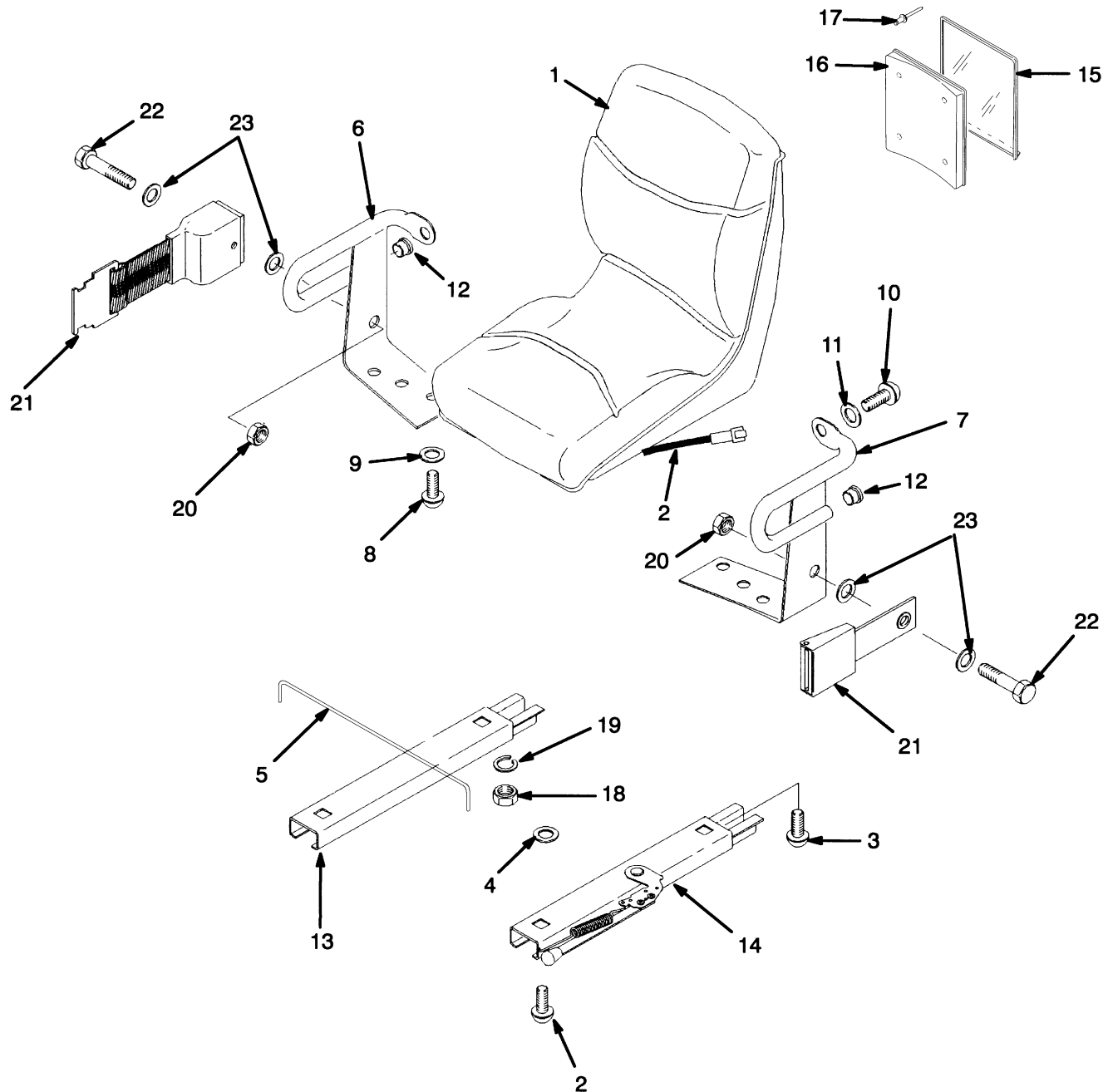
BP120054

FLOOR PLATES AND COVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1396147	Dash	1
2	1396148	Cowl Panel.....	1
3	2035798	Floorplate (Front)	1
4	2035980	Floorplate.....	1
5	1396641	Floormat	1
6	1350215	Nut (Foldover).....	6
7	15212	Cotter Pin.....	1
8	320156	Washer	2
9	1399399	Washer	9
10	1525248	Screw.....	9
11	1399337	Flap (Right Cylinder).....	1
12	1399338	Flap (Left Cylinder)	1
13	1334790	Washer	6
14	176640	Capscrew.....	6
15	320157	Washer	6
16	302400	Locknut	6
17	2036875	Cover	2
18	1338286	Storage Compartment (Without Cab)	1
19	1385498	Cover	1
20	a 1396012	Radiator Cap Door.....	1
20	b 1396009	Radiator Cap Door.....	1
21	1469317	Capscrew.....	3
22	375629	Washer	3
23	1347043	Cover (Counterweight Exhaust).....	1
24	1347045	Fastener (Counterweight Exhaust)	3
25	1400180	Lanyard.....	1
26	296511	Screw.....	1
27	302398	Locknut	1

FOOTNOTES:**a** Type Gasoline and Diesel**b** Type LPG, Dual Fuel, GS, LPS, and DS

NON-SUSPENSION SEAT (Figure 1-5)



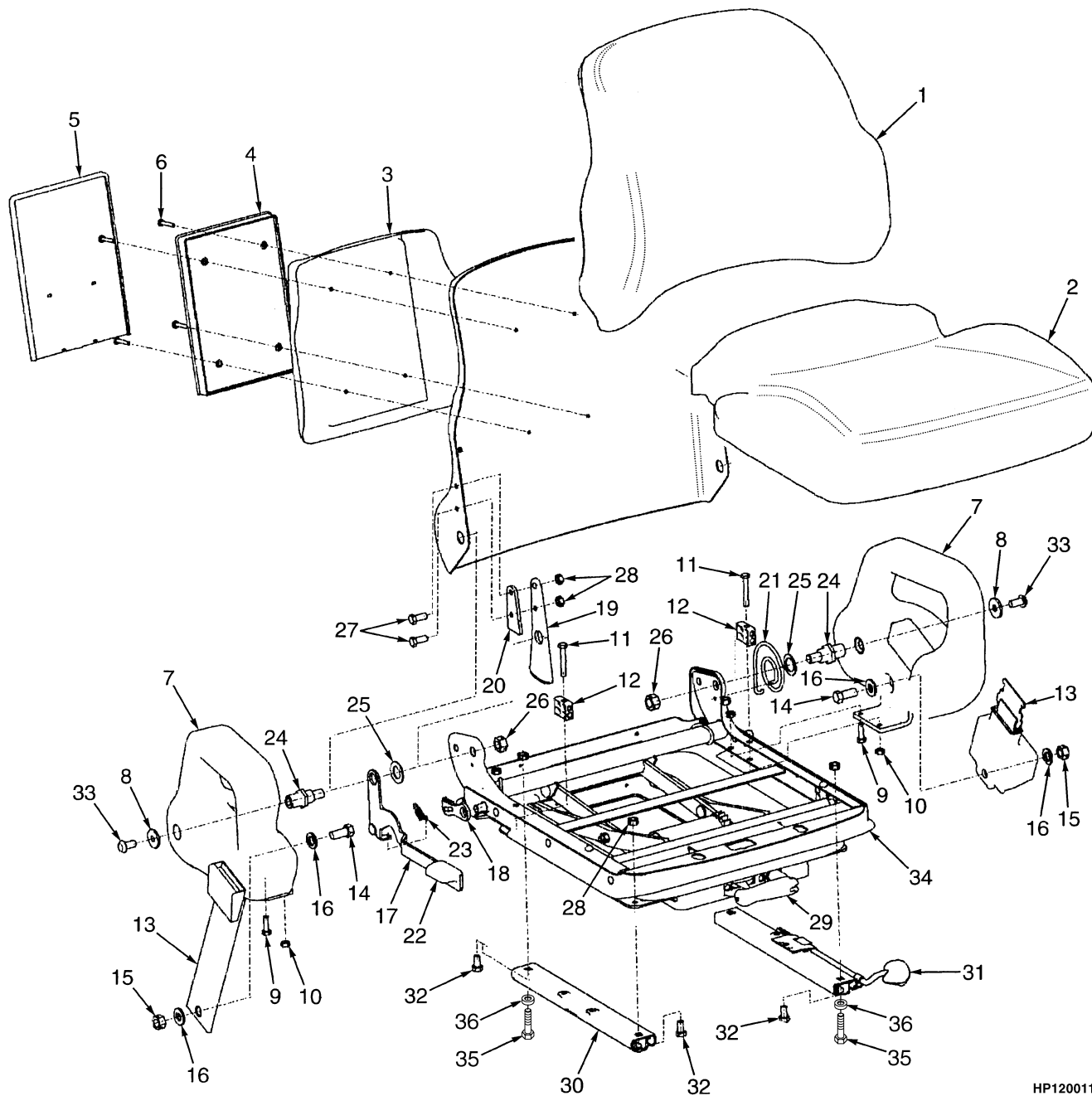
HP120010

NON-SUSPENSION SEAT

ITEM	PART NO.	DESCRIPTION	QTY
	1375150	Seat Assembly (Vinyl).....	1
1	1351473	Seat.....	1
2	1354140	Switch Assembly.....	1
3	364914	Capscrew	4
4	221733	Washer	2
5	1300107	Rod.....	1
6	364807	Hip Restraint (RH)	1
7	364808	Hip Restraint (LH).....	1
8	18727	Capscrew	4
9	18515	Washer	4
10	379197	Capscrew	2
11	379198	Washer	2
12	364854	Plug	2
13	383116	Seat Rail (RH)	1
14	335553	Seat Rail (LH).....	1
15	335991	Cover	1
16	335988	Base	1
17	222029	Rivet.....	4
18	145639	Nut	4
19	15175	Washer	4
20	379698	Nut	2
21	1374750	Seat Belt	1
22	379199	Capscrew.....	2
23	379697	Washer	4

FULL SUSPENSION SEAT (Figure 1-6)

1 OF 2



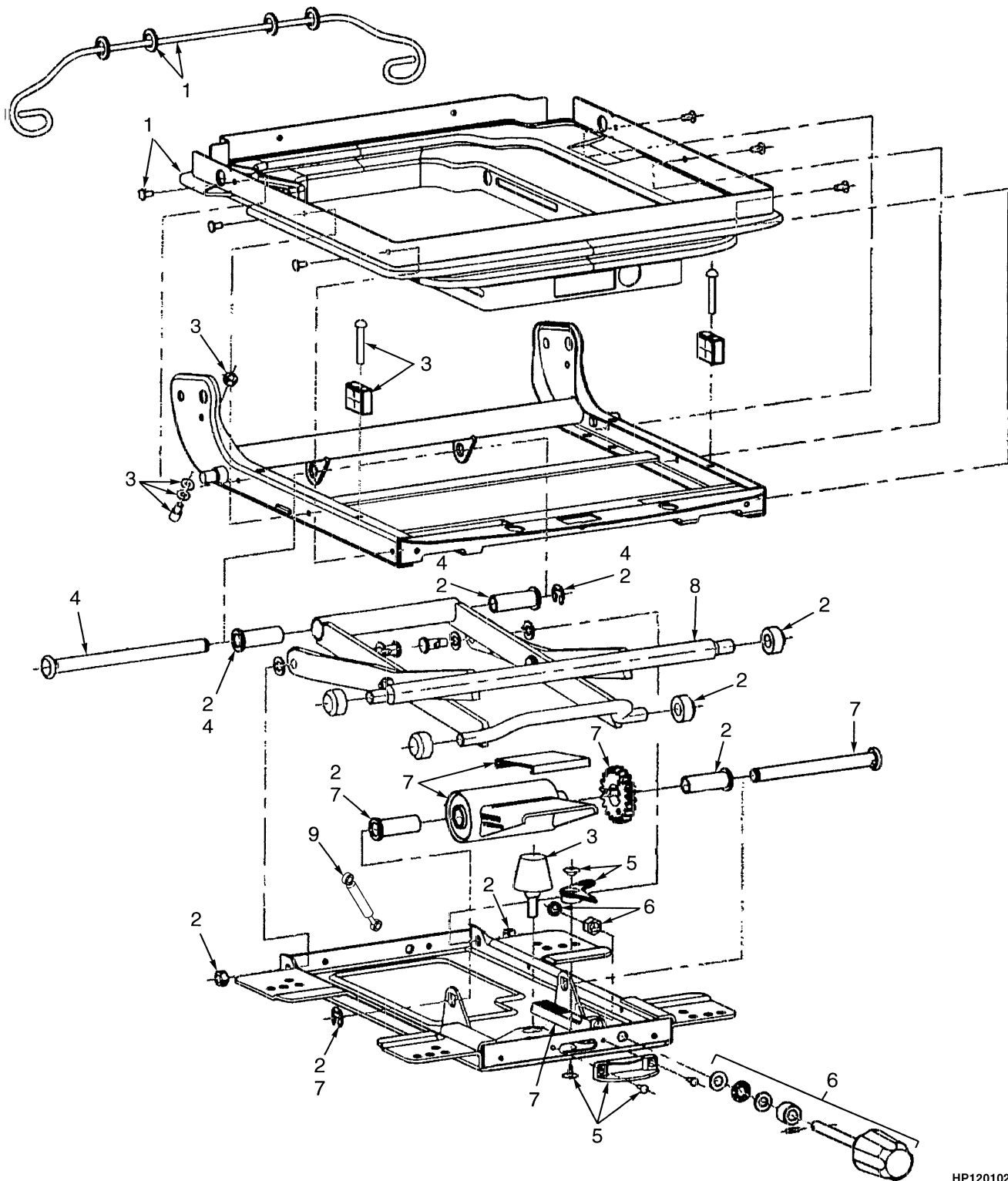
HP120011

FULL SUSPENSION SEAT**1 OF 2**

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat Assembly (Fabric)	1
	1468472	Seat Assembly (Vinyl).....	1
1	1470153	Back Cushion (Fabric)	1
1	1470152	Back Cushion (Vinyl)	1
2	1494077	Seat Cushion (Fabric)	1
2	1494076	Seat Cushion (Vinyl).....	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	Handle Kit.....	1
30	.....	Slide (RH).....	1
31	.....	Slide (LH)	1
32	.....	Bolt	4
33	.....	Screw	2
34	1470159	Suspension Kit.....	1
35	15175	Washer	4
36	145639	Nut	4
	1470155	Manual Holder Kit (Includes Items 3-6)	1
	1470156	Hip Restraint Kit (RH) (Includes Items 7-12, 33)	1
	1470157	Hip Restraint Kit (LH) (Includes Items 7-12, 33)	1
	1470158	Seat Belt Kit (Includes Items 13-16)	1
	1470164	Recliner Kit (Includes Items 17-28)	1
	1470161	Slide Kit (Includes Items 30-32).....	1

FULL SUSPENSION SEAT (Figure 1-7)

2 OF 2

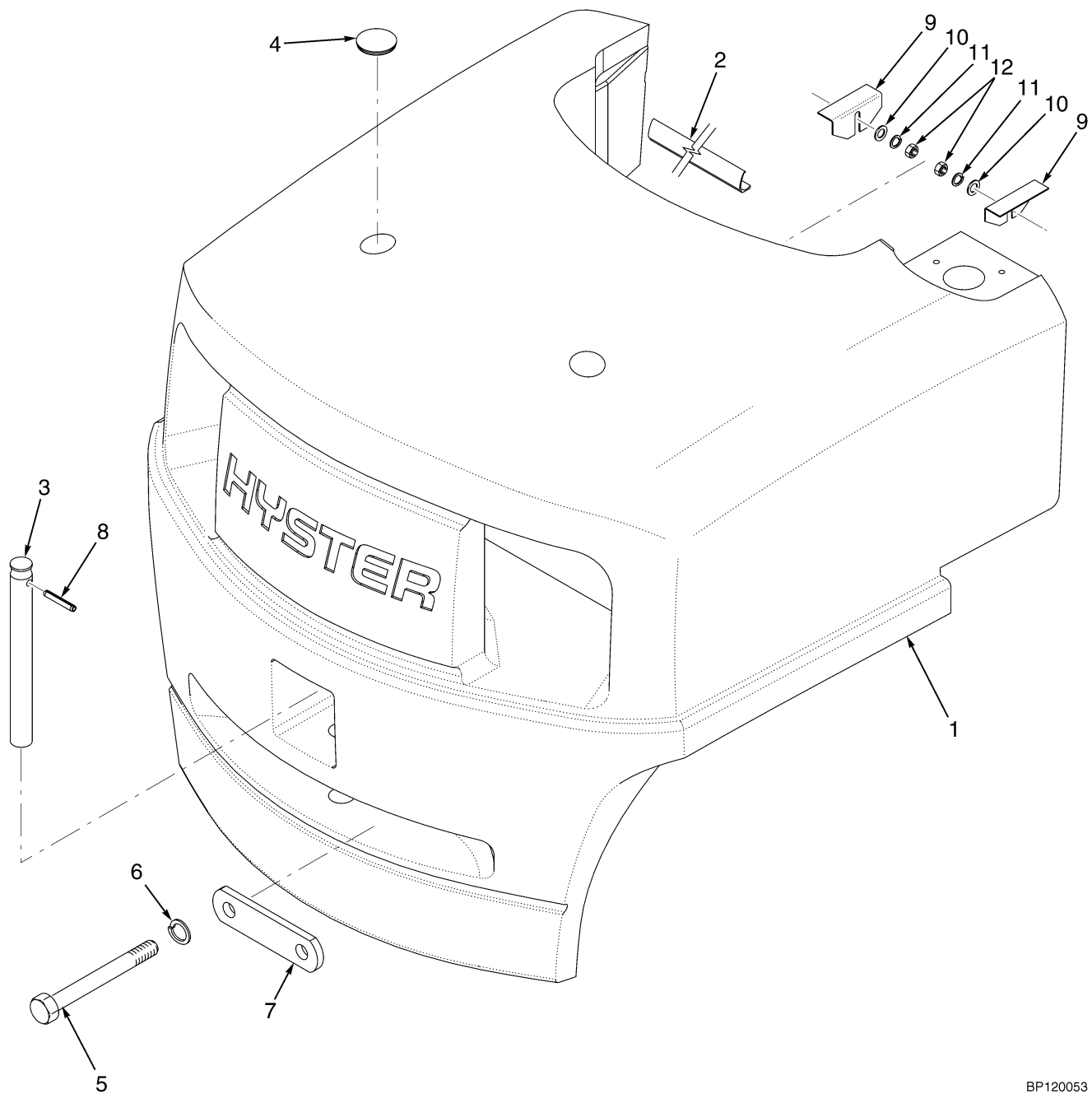


HP120102

FULL SUSPENSION SEAT
2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	1468473	Seat Assembly (Fabric)	1
	1468472	Seat Assembly (Vinyl).....	1
1	1467523	Boot Kit.....	1
2	1467524	Roller and Bearing Kit	1
3	1467525	Bumper and Stop Kit	1
4	1467526	Bearing Shaft Kit	1
5	1467527	Weight Adjuster Indicator Kit	1
6	1467531	Recliner Knob.....	1
7	1467529	Suspension Spring Kit.....	1
8	1470160	Scissor Assembly	1
9	1483828	Shock Absorber	1

COUNTERWEIGHTS (Figure 1-8)

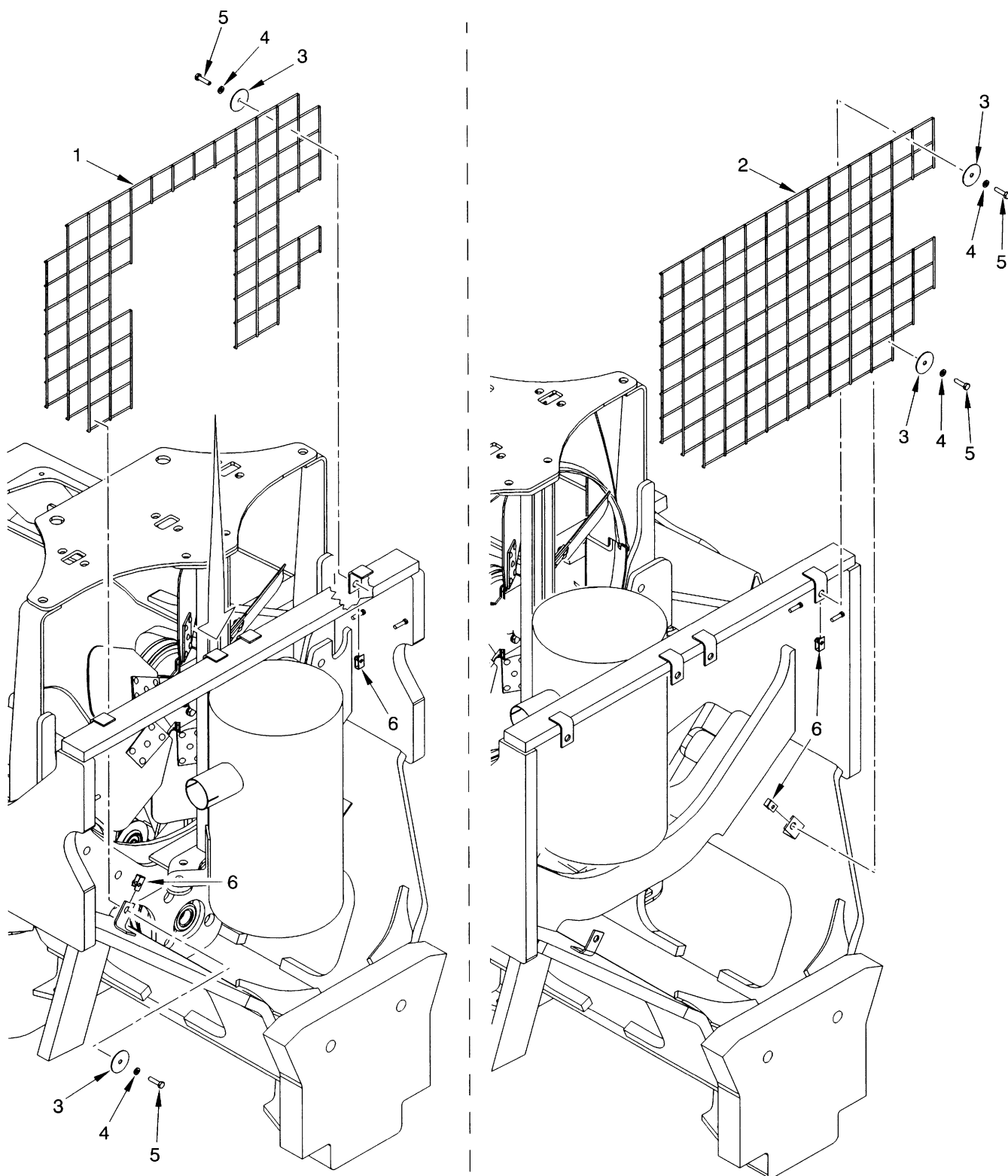


BP120053

COUNTERWEIGHTS

ITEM	PART NO.	DESCRIPTION	QTY
1	1388879	Counterweight (H70XM)	1
1	1388880	Counterweight (H80XM)	1
1	1385449	Counterweight (H90XM)	1
1	1388882	Counterweight (H100XM)	1
1	1388883	Counterweight (H110XM)	1
1	1385457	Counterweight (H120XM)	1
2	.....	Seal (H70-90XM).....	2
2	.....	Seal (H100-120XM).....	2
3	1388898	Tow Pin	1
4	2021395	Cap	2
5	292614	Capscrew.....	2
6	292689	Lockwasher.....	2
7	1480019	Washer	2
8	1527470	Spring Pin	1
9	1335763	Shim (0.109 in.)	4
10	320158	Washer	4
11	292681	Lockwasher.....	4
12	239503	Nut	4

REAR ACCESS SCREEN (Figure 1-9)

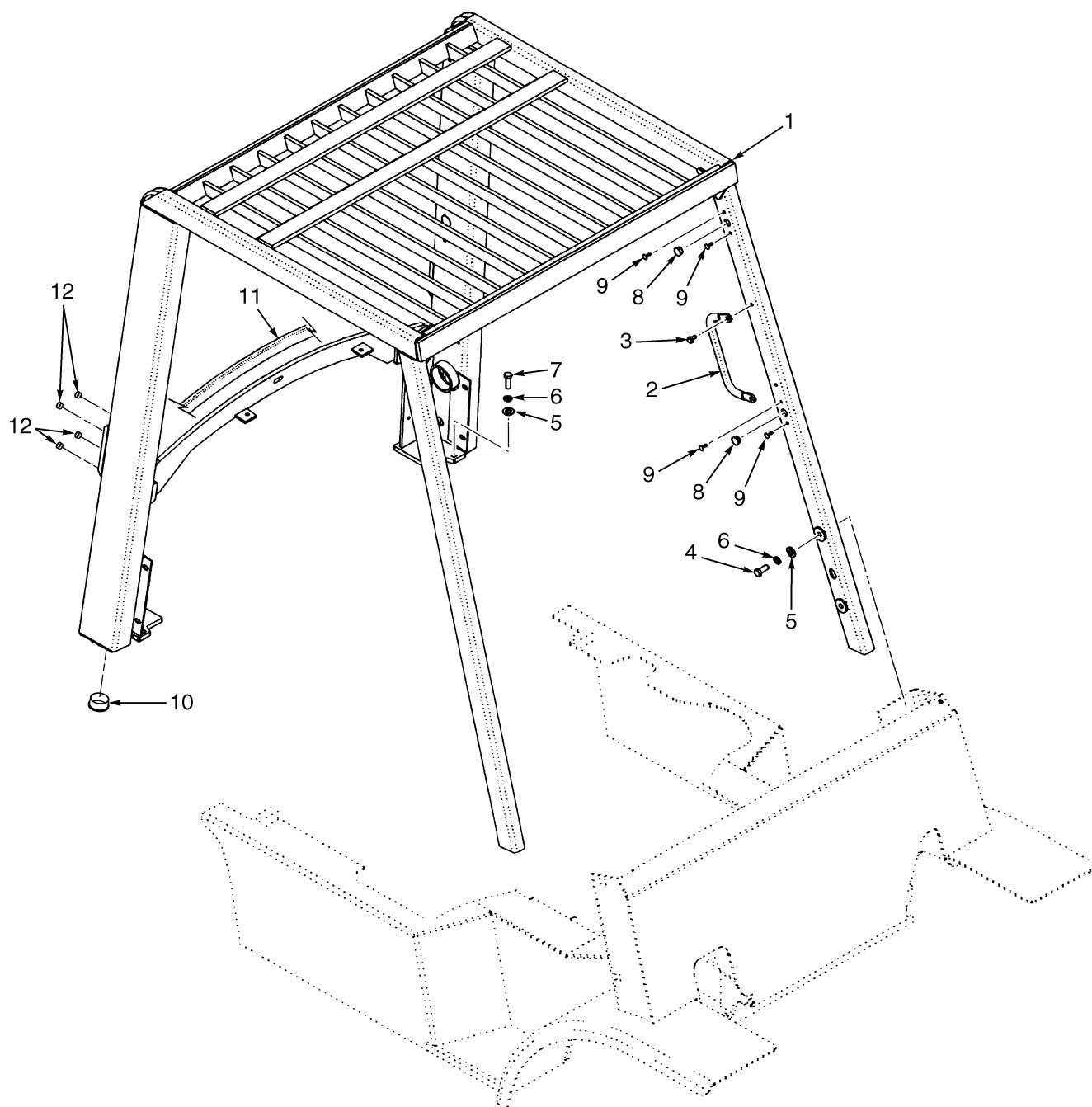


BP120051

REAR ACCESS SCREEN

ITEM	PART NO.	DESCRIPTION	QTY
1	1470920	Screen (H70XM) (With Counterweight Exhaust)	1
1	1470921	Screen (H70XM) (With Overhead Exhaust).....	1
1	1470922	Screen (H80-90XM) (With Counterweight Exhaust)	1
1	1470923	Screen (H80-90XM) (With Overhead Exhaust)	1
2	1468699	Screen (H100-120XM) (2100 mm Long Wheel Base)	1
3	1471535	Washer	4
4	292681	Lockwasher.....	4
5	136749	Capscrew.....	4
6	1398062	Nut	4

OVERHEAD GUARD (Figure 1-10)



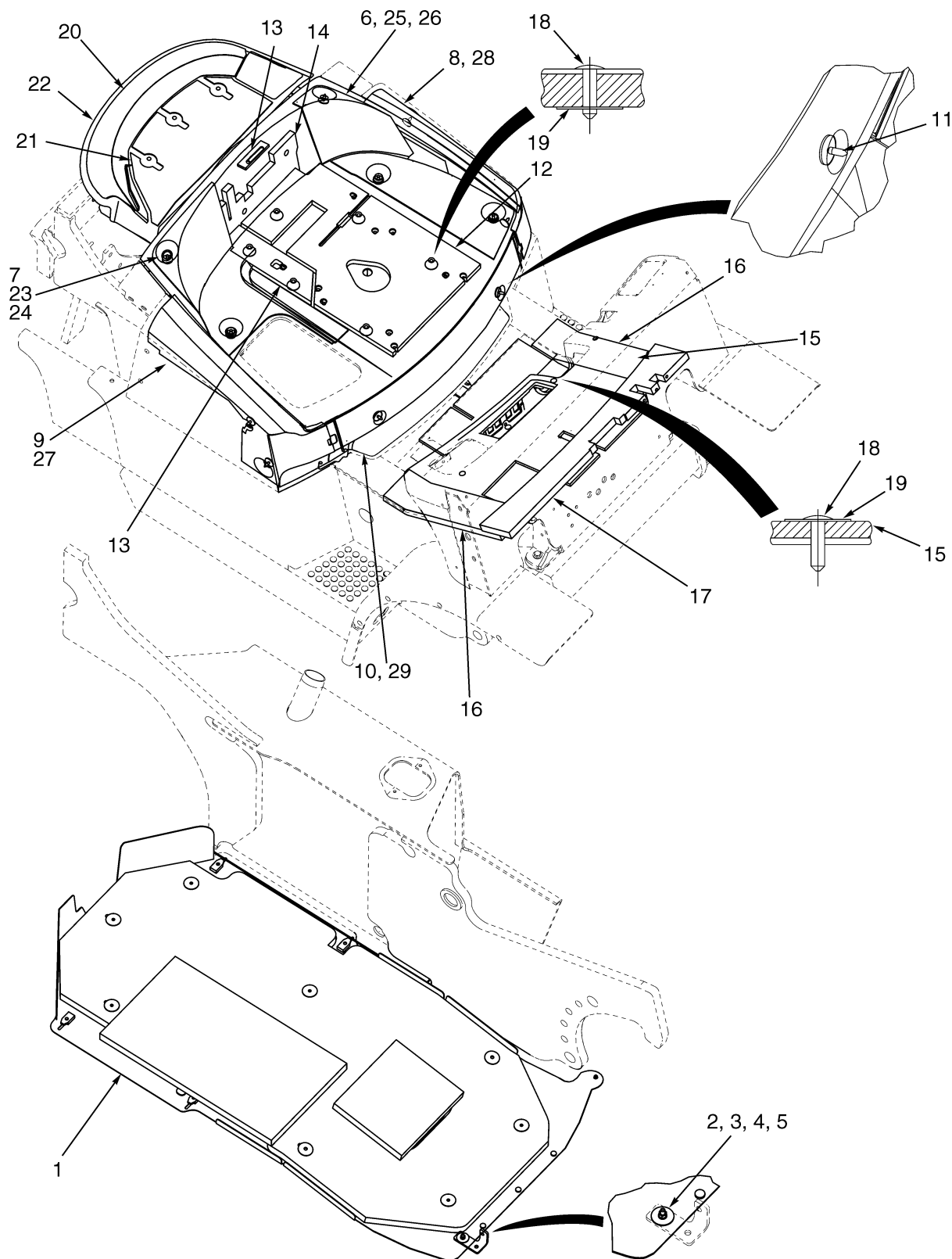
HP120014

OVERHEAD GUARD

ITEM	PART NO.	DESCRIPTION	QTY
1	b 1396039	Overhead Guard (Standard Height).....	1
1	a 1523718	Overhead Guard (Standard Height).....	1
1	b 1465443	Overhead Guard (Raised Height).....	1
1	a 1523715	Overhead Guard (Raised Height).....	1
2	2035800	Handle	2
3	316678	Screw.....	4
4	293644	Capscrew.....	4
5	296423	Washer	6
6	292683	Lockwasher.....	6
7	293646	Capscrew.....	2
8	1363917	Plug	6
9	1363916	Plug	14
10	1356377	Plug	2
11	1465740	Seal	1
12	1494888	Plug	8

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

SOUND REDUCTION (Figure 1-11)

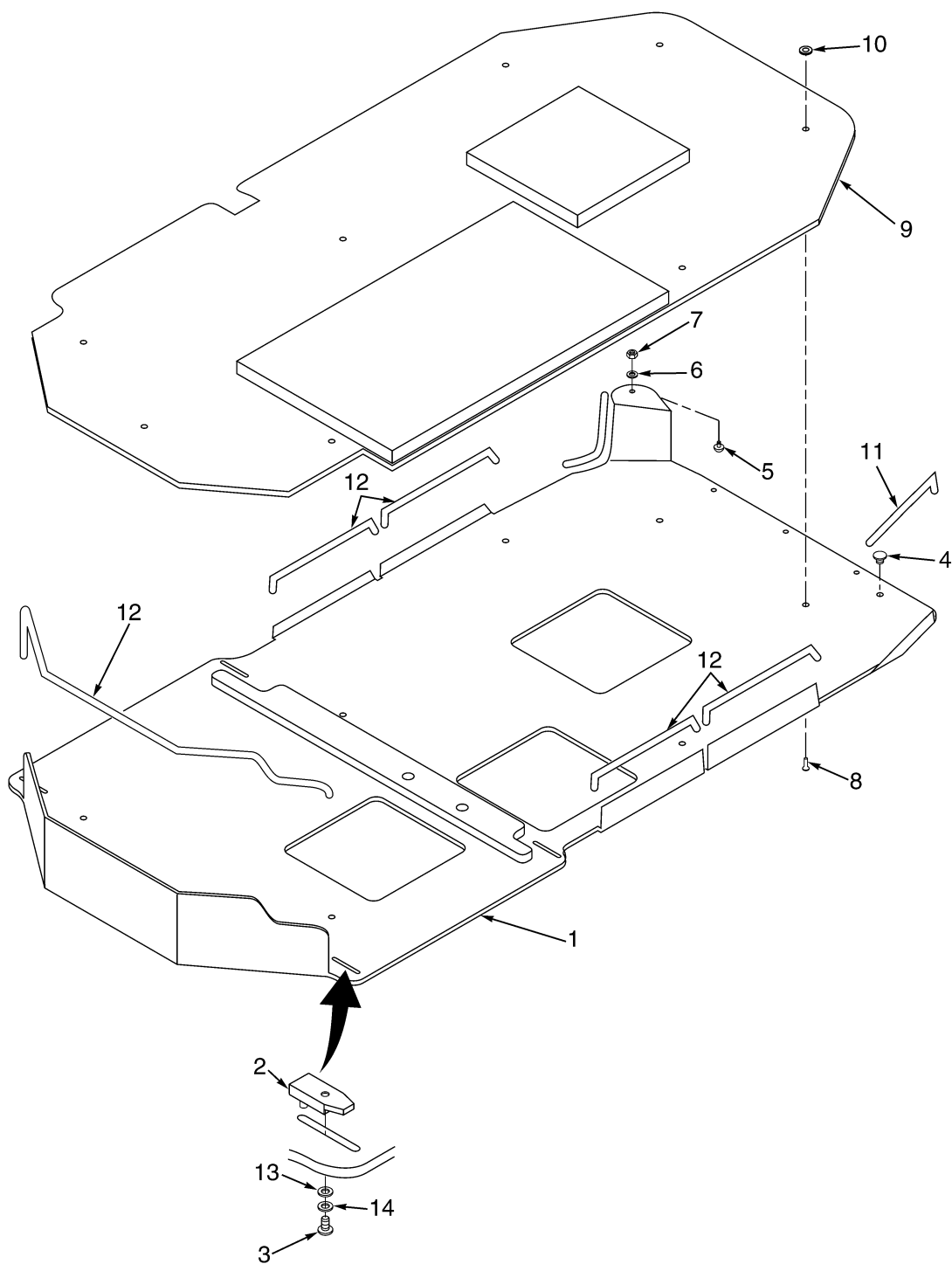


BP120050

SOUND REDUCTION**KEY:****A: 1830 mm Short Wheel Base****B: 2100 mm Long Wheel Base**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1399809	Undercarriage Pan (☞ Figure 1-12)	1	..
1	1399810	Undercarriage Pan (☞ Figure 1-12)	..	1
2	293603	Capscrew.....	1	1
3	2034906	Washer	2	2
4	292680	Lockwasher.....	1	1
5	136687	Nut	1	1
6	1400151	Liner (Hood LH)	1	1
7	1400152	Liner (Hood RH)	1	1
8	1400153	Liner (Door LH).....	1	1
9	1400154	Liner (Door RH)	1	1
10	1541805	Liner (Front Cover).....	1	1
11	1304971	Fastener.....	11	11
12	1544739	Sound Liner (Seat)	1	1
13	1490766	Pad (Latch)	1	1
14	1544743	Sound Liner (Seat)	1	1
15	1468023	Sound Liner (Floor Plate)	1	1
16	1468024	Sound Liner (Floor Plate)	2	2
17	1468025	Cowl Barrier.....	1	1
18	1399815	Rivet.....	15	15
19	1399784	Washer	15	15
20	1468032	Sound Liner (Radiator Cover).....	1	1
21	1468033	Sound Liner (Radiator Barrier)	1	1
22	1382126	Seal	AR	AR
23	1467338	Barrier (RH Seat Panel).....	1	1
24	1467340	Barrier (RH Seat Panel).....	1	1
24	1467343	Barrier (LH Seat Panel)	1	1
25	1467342	Barrier (LH Seat Panel)	1	1
27	1467344	Barrier (RH Door Panel)	1	1
28	1467345	Barrier (LH Door Panel).....	1	1
29	1467347	Barrier (Front Panel)	1	1
	1468027	Barrier Kit (Includes Items 13, 23-25, 27-29).....	1	1

UNDERCARRIAGE PAN (Figure 1-12)

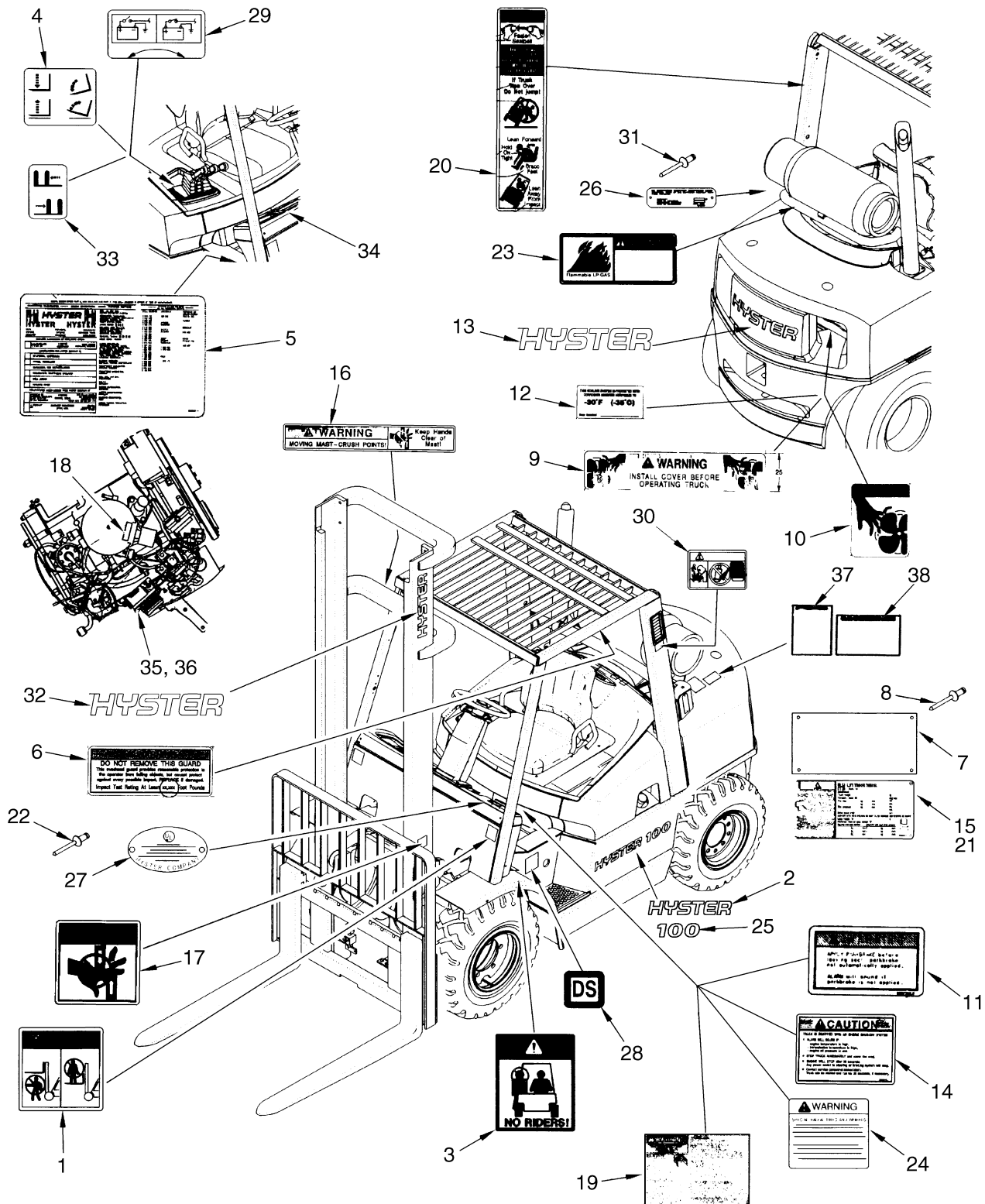


HP120636

UNDERCARRIAGE PAN**KEY:****A: 1830 mm Short Wheel Base****B: 2100 mm Long Wheel Base**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1399809	Undercarriage Pan (Assembly).....	1	..
	1399810	Undercarriage Pan (Assembly).....	..	1
1	1397647	Pan	1	..
1	1397651	Pan	..	1
2	1399818	Nut.....	4	4
3	1399820	Capscrew	4	4
4	1399817	Bumper.....	3	3
5	1399816	Screw	1	1
6	320155	Washer	1	1
7	302398	Locknut.....	1	1
8	1399815	Rivet	8	8
9	1399813	Liner	1	..
9	1399814	Liner	..	1
10	1399784	Washer	8	8
11	1399829	Edge Strip (250 mm)	2	2
12	1399830	Edge Strip (420 mm)	4	4
13	320156	Washer	4	6
14	292680	Lockwasher	4	6

LABELS AND DECALS (Figure 1-13)



BP120052

LABELS AND DECALS

ITEM	PART NO.	DESCRIPTION	QTY
1	1338178	Label (Mast Warning)	2
2	2020517	Label (Hyster) (Horizontal)	2
3	1330920	Label (No Riders)	2
4	1356137	Label (Lift and Tilt)	1
5	389692	Label (US Patents and Trademarks).....	2
6	a	Label (Impact Rating Warning)	1
7	389688	Cover	1
8	170658	Rivet.....	4
9	1325271	Label (Fan Warning)	1
10	1345939	Label (Fan Warning) (Pictorially)	2
11	2309799	Label (Parking Brake)	1
12	1354165	Label (Antifreeze)	1
13	1399885	Label (Hyster) (Counterweight) (Optional).....	1
14	1385102	Label (Drive Train Protection)	1
15	1335137	Label (Notice To User) (Tag).....	1
16	1330919	Label (Mast Warning)	1
17	1335129	Label (Pinch Point)	2
18	2053467	Decal (Emissions Compliant)	1
19	1336605	Label (Operator Warning)	1
20	1330917	Label (Operator Restraint)	1
21	a	Label (Nameplate)	1
22	166818	Rivet.....	2
23	1354171	Label (Flammable LPG).....	1
24	1374549	Label (Radial Tire Warning).....	1
25	1399873	Label (H70XM)	1
25	1399874	Label (H80XM)	1
25	1399875	Label (H90XM)	1
25	1399876	Label (H100XM)	1
25	1399877	Label (H110XM)	1
25	1399878	Label (H120XM)	1
26	1501259	Label (LPG Tank) (Type LP, LPS, Dual Fuel).....	1
27	179420	Inspection Plate - Gasoline (Type G)	1
27	179423	Inspection Plate - Diesel (Type D)	1
27	179414	Inspection Plate - LPG (Type LP)	1
27	179415	Inspection Plate (Type GS)	1
27	179417	Inspection Plate (Type DS)	1
27	179416	Inspection Plate (Type LPS)	1
27	1378509	Inspection Plate (Type Dual Fuel).....	1
28	154065	Label (Type GS).....	2
28	154067	Label (DS)	2
28	154066	Label (Type LPS)	2
29	1352190	Label (Battery Disconnect) (Type GS, LPS, DS)	1
30	2034459	Label (Ether Warning).....	1
31	340044	Gripnail (Optional)	2
31	170658	Rivet.....	2
32	1339672	Label (Hyster) (Vertical).....	2
33	370258	Label (Auxiliary Function - Side-Shift)	1
34	864740	Decal (Gasoline Fuel Gauge)	1
35	864765	Decal (Fuel Changeover).....	1
36	864763	Plate (Fuel Selector)	1

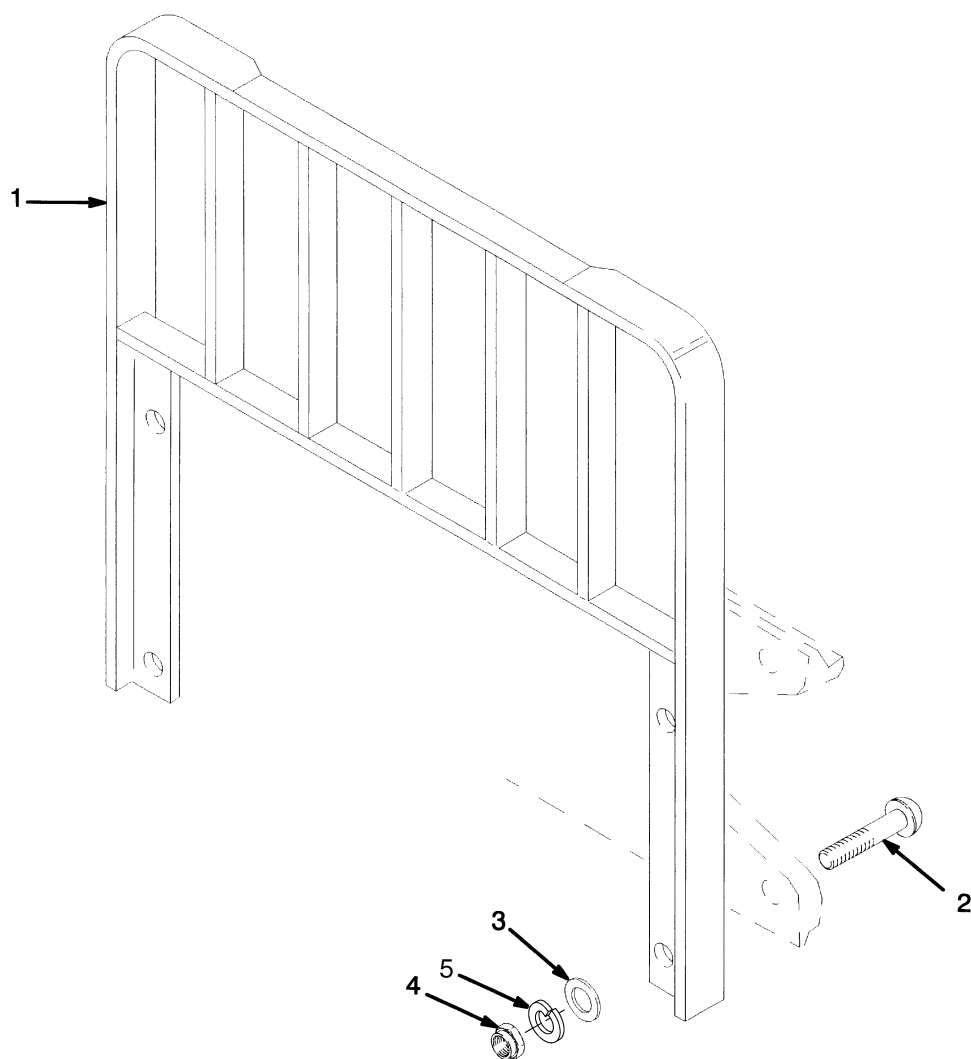
LABELS AND DECALS

ITEM	PART NO.	DESCRIPTION	QTY
37	864739	Decal (Safety Maintenance)	1
38	864738	Decal (Refueling)	1

FOOTNOTES:

a See Your Local Hyster Dealer

[illegible]

LOAD BACKREST EXTENSION (Figure 1-14)

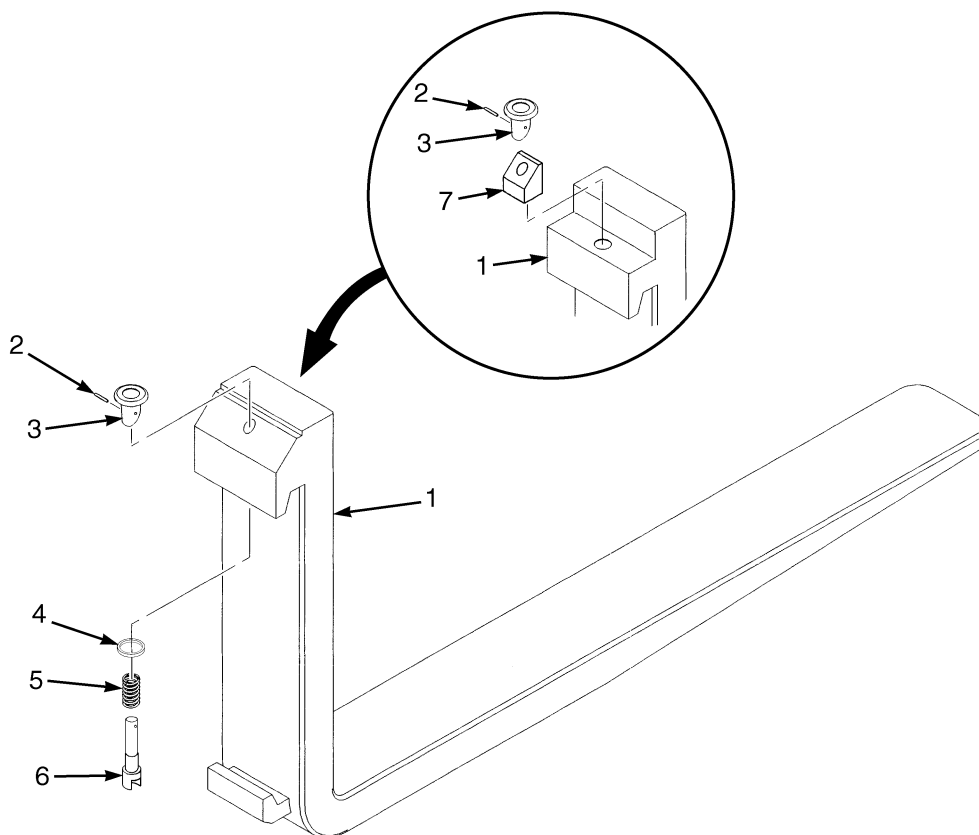
BP290015

LOAD BACKREST EXTENSION**KEY:****A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1387341	Load Backrest Extension (48 in.).....	1	..
1	a 1387342	Load Backrest Extension (48 in.).....	1	..
1	1387904	Load Backrest Extension (54 in.).....	..	1
1	a 1464864	Load Backrest Extension (54 in.).....	..	1
1	1387345	Load Backrest Extension (60 in.).....	1	..
1	a 1387346	Load Backrest Extension (60 in.).....	1	..
1	1387349	Load Backrest Extension (60 in.).....	..	1
1	a 1464865	Load Backrest Extension (60 in.).....	..	1
2	1387330	Capscrew	4	4
3	221771	Washer	4	4
3	b 296423	Washer	4	4
4	292656	Nut.....	4	4
5	292683	Lockwasher	4	4

FOOTNOTES:**a** For Polished Forks with Full Bottom Taper**b** Optional

FORKS (Figure 1-15) **STANDARD TAPER HOOK TYPE** **(H70-90XM)**



BP000188

KEY:

A: H70XM (50 mm x 125 mm) (2 in. x 5 in.)

B: H80XM (50 mm x 125 mm) (2 in. x 5 in.)

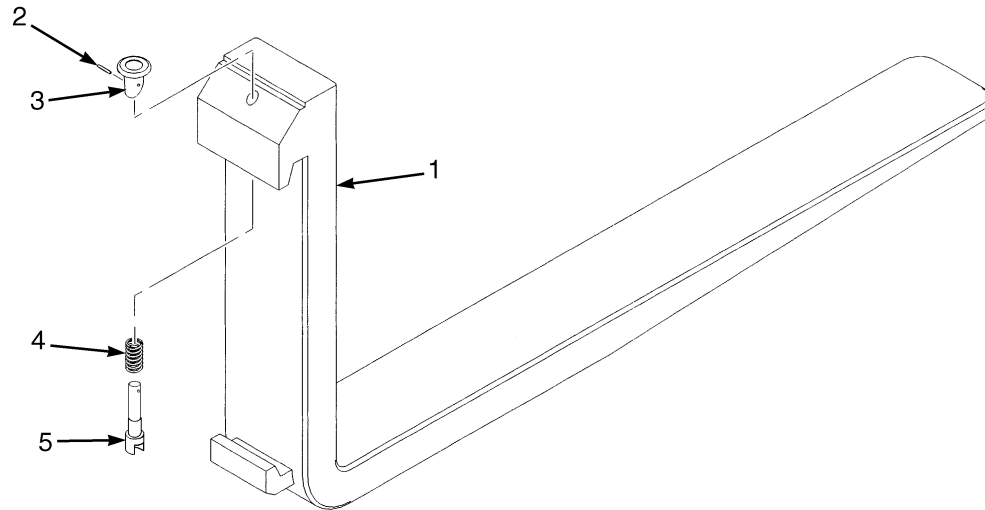
C: H90XM (50 mm x 150 mm) (2 in. x 6 in.)

D: H90XM (50 mm x 125 mm) (2 in. x 5 in.)

E: H90XM (50 mm x 150 mm) (2 in. x 6 in.)

ITEM	PART NO.	DESCRIPTION	QTY				
			A	B	C	D	E
1	367420	Fork (42 in.)	2	2	..	2	..
1	367421	Fork (48 in.)	2	2	..	2	..
1	367422	Fork (54 in.)	2	2	..	..	..
1	367423	Fork (60 in.)	2	..	..	..	..
1	367424	Fork (72 in.)	2	..	..	..	..
2	1523734	Retainer Pin.....	1	1	1	1	1
3	1523732	Knob	1	1	1	1	1
4	1477166	Washer	1	1	1	1	1
5	1500784	Spring	1	1	1	1	1
6	1523737	Pin	1	1	1	1	1
7	1477237	Wedge	1	1	1	1	1
	1523739	Latch Kit (Class III) (Includes Items 2-7)	2	2	2	2	2

FORKS (Figure 1-16) STANDARD TAPER HOOK TYPE (H100-120XM)



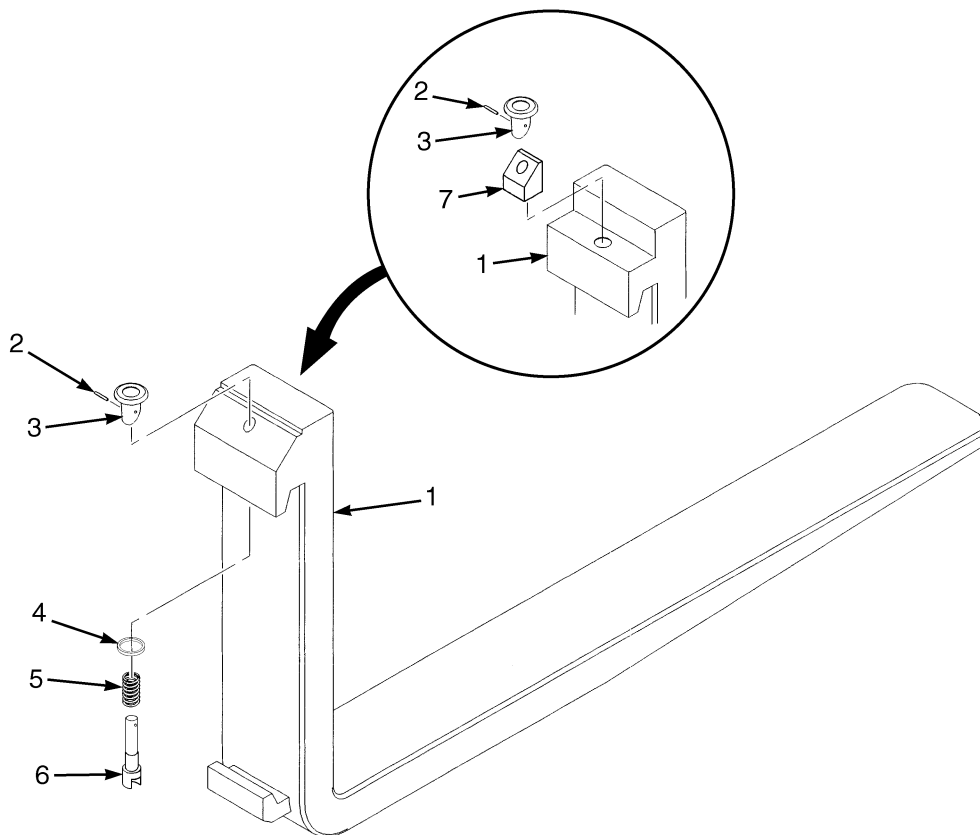
BP000187

KEY:

- A:** H100 XM (50 mm x 150 mm) (2 in. x 6 in.)
B: H100 XM (60 mm x 150 mm) (2.36 in. x 6 in.)
C: H110XM (50 mm x 150 mm) (2 in. x 6 in.)
D: H110 XM (60 mm x 150 mm) (2.36 in. x 6 in.)
E: H120 XM (60 mm x 150 mm) (2.36 in. x 6 in.)

ITEM	PART NO.	DESCRIPTION	QTY				
			A	B	C	D	E
1	1399919	Fork (42 in.)	2	..	2	..	..
1	1458264	Fork (42 in.)	..	..	..	..	2
1	1399920	Fork (48 in.)	2	..	2	..	..
1	1333001	Fork (48 in.)	..	..	..	..	2
1	1399921	Fork (54 in.)	2	..	..	..	..
1	1333002	Fork (54 in.)	..	..	..	2	2
1	1519441	Fork (55 in.)	..	..	2	..	..
1	1519442	Fork (59 in.)	..	..	2	..	..
1	1399922	Fork (60 in.)	..	..	..	..	..
1	1333003	Fork (60 in.)	..	..	..	2	2
1	1479090	Fork (71 in.)	..	..	2	..	..
1	1333004	Fork (72 in.)	..	2	..	2	2
2	1523734	Retainer Pin.....	1	1	1	1	1
3	1523732	Knob	1	1	1	1	1
4	1500786	Spring	1	1	1	1	1
5	1523741	Pin	1	1	1	1	1
	1523742	Latch Kit (Class IV) (Includes Items 2-5).....	2	2	2	2	2

FORKS (Figure 1-17) POLISHED FORK WITH FULL BOTTOM TAPER HOOK TYPE



BP000188

KEY:

A: H70XM, H80XM, H90XM

B: H100XM, H110XM, H120XM

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1465545	Fork (47.5 in.)	2	..
1	1465546	Fork (54 in.)	2	..
1	1465547	Fork (47.5 in.)	..	2
1	1465548	Fork (54 in.)	..	2
2	1523734	Retainer Pin.....	1	1
3	1523732	Knob	1	1
4	1477166	Washer	1	..
5	1500784	Spring.....	1	..
5	1500786	Spring.....	..	1
6	1523737	Pin	1	..
6	1523741	Pin	..	1
7	1477237	Wedge	1	..
	1523739	Latch Kit (Class III) (Includes Items 2-7)	2	..
	1523742	Latch Kit (Class IV) (Includes Items 2-3, 5-6).....	..	2

2

ENGINE ASSEMBLY

SECTION 2

ENGINE ASSEMBLY

DESCRIPTION	PAGE
ASSEMBLED ENGINE	
DIESEL TIER II	2-18
CAMSHAFT AND OIL PAN	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-54
COOLING SYSTEM	2-4
CRANKSHAFT AND PISTONS	
DIESEL TIER II	2-26
CYLINDER BLOCK	
DIESEL TIER II	2-20
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-52
CYLINDER HEAD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-62
CYLINDER HEAD AND INDUCTION MANIFOLD	
DIESEL TIER II	2-22
DRIP SHIELD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-68
ENGINE ASSEMBLY	
GASOLINE	
4.3 L EPA COMPLIANT	2-48
LPG	
4.3 L EPA COMPLIANT	2-46
ENGINE BELT DRIVE AND ALTERNATOR MOUNTING	
4.3L EPA COMPLIANT ENGINE	2-10
ENGINE MOUNT	
DIESEL TIER II	2-16
ENGINE MOUNTING	
GASOLINE AND LPG	2-44
EXHAUST	
DIESEL TIER II	2-14
GAS AND LPG	2-12
EXHAUST MANIFOLD	
DIESEL TIER II	2-34
GASOLINE AND LPG	
4.3L EPA COMPLIANT	2-50
FAN DRIVE ASSEMBLY	2-8
FUEL INJECTION PUMP	
DIESEL TIER II	2-40
INTAKE MANIFOLD AND FUEL RAIL	
GASOLINE	
4.3 L EPA COMPLIANT	2-66
OIL COOLER	
DIESEL TIER II	2-38
OIL FILTER	
DIESEL TIER II	2-36
OIL PAN AND PUMP	
DIESEL TIER II	2-28

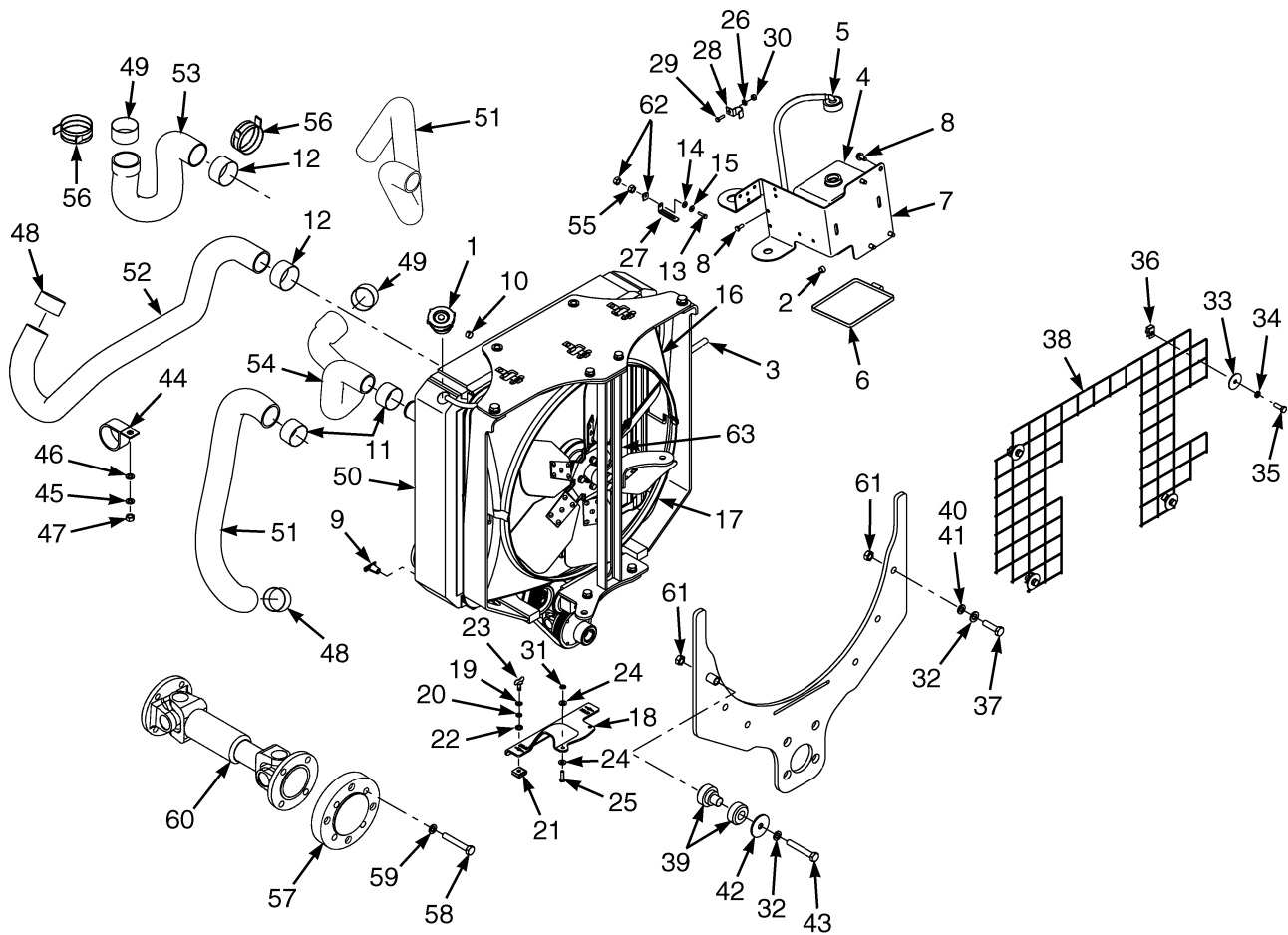
SECTION 2

ENGINE ASSEMBLY (Continued)

DESCRIPTION	PAGE
OIL PUMP	
GASOLINE AND LPG	
4.3L EPA COMPLIANT.....	2-64
ROTARY EXHAUSTER	
DIESEL TIER II	2-42
TIMING GEAR	
DIESEL TIER II	2-32
VALVE COVER AND INLET MANIFOLD	
GASOLINE AND LPG	
4.3L EPA COMPLIANT.....	2-58
VALVE COVER AND ROCKER ARM SHAFT	
DIESEL TIER II	2-24
WATER PUMP AND OUTLET	
DIESEL TIER II	2-30

[illegible]

COOLING SYSTEM (Figure 2-1)



HP060034

COOLING SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	178899	Cap	1
2	353310	Clamp	1
3	1302954	Tube	1
4	344432	Reservoir	1
5	1359581	Outlet Assembly	1
5	1457312	Hose	1
5	345453	Outlet (Reservoir)	1
5	345454	Cap	1
5	336550	Bushing	1
6	340204	Strap	1
7	1539751	Bracket	1
8	316678	Screw	4
9	12815	Drain Valve	1
10	369815	Clamp	1
11	1502000	Clamp	1
12	1549372	Clamp (Gas and LPG)	1
13	302238	Screw	4
14	197066	Washer	4
15	292678	Lockwasher	4
16	1397697	Shroud (Upper)	1
17	1397698	Shroud (Lower)	1
18	1397710	Shroud (Door)	1
19	1399310	Washer	2
20	1399311	Spring	2
21	1399312	Clip	2
22	1399313	Retainer	2
23	1399314	Stud	2
24	15127	Washer	4
25	222038	Rivet	2
26	292680	Lockwasher	1
27	1466001	Clamp	3
28	1339457	Clamp	1
29	292500	Capscrew	1
30	136687	Nut	1
31	320156	Washer	2
32	292683	Lockwasher	6
33	1471535	Washer	4
33	bc 1471535	Washer	6
34	292681	Lockwasher	4
34	a 292681	Lockwasher	6
34	c 292681	Lockwasher	6
35	136749	Capscrew	4
35	c 136749	Capscrew	6
36	1398062	Nut	4
36	a 1398062	Nut	1
37	287837	Capscrew	6
37	a 287837	Capscrew	4
38	a 1468699	Screen (☞ Figure 1-9)	1
38	d 1470920	Screen (☞ Figure 1-9)	1
38	b 1470921	Screen (☞ Figure 1-9)	1
38	c 1470922	Screen (☞ Figure 1-9)	1

COOLING SYSTEM

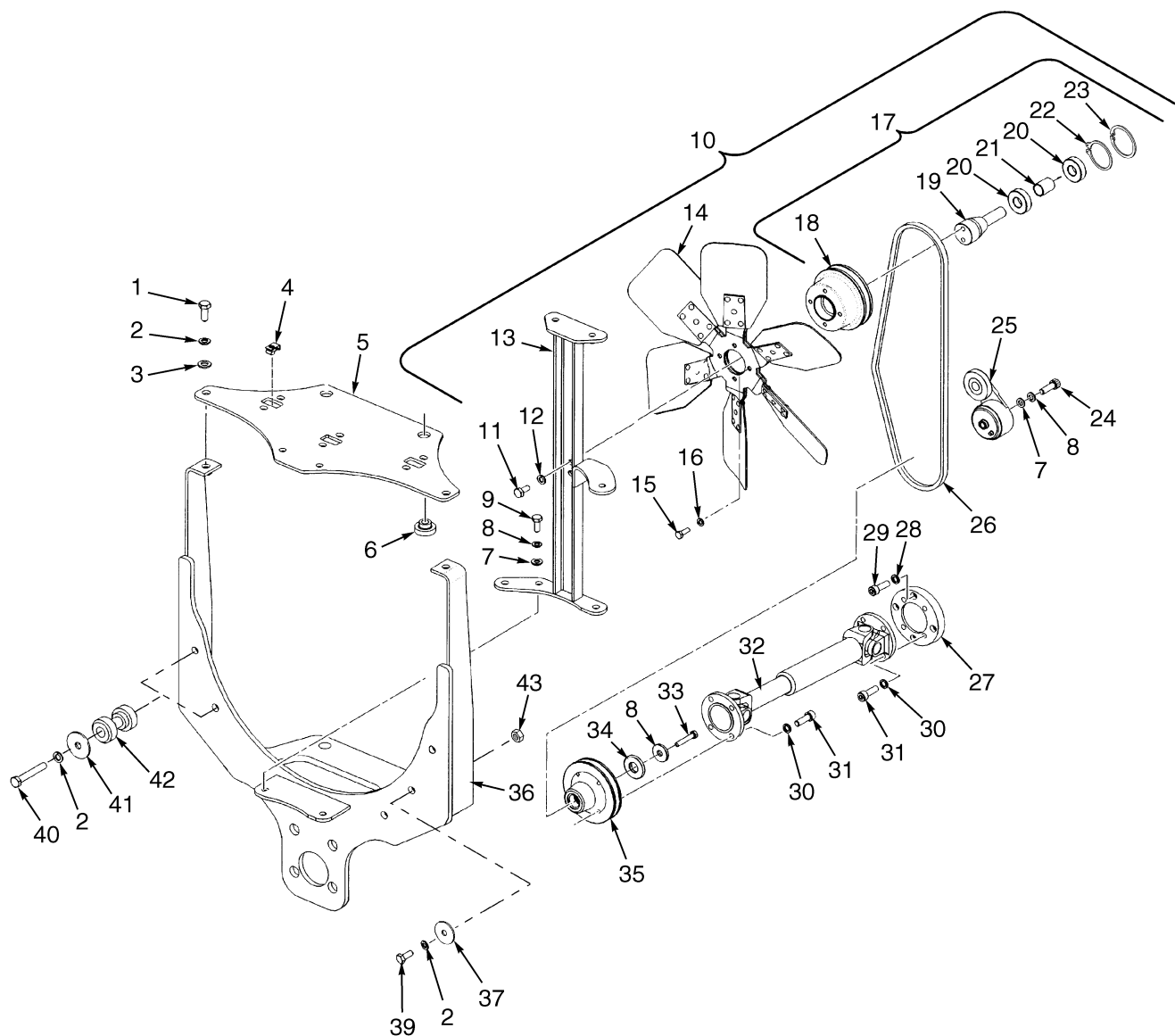
ITEM	PART NO.	DESCRIPTION	QTY
38	e 1470923	Screen (☞ Figure 1-9)	1
39	a 1397807	Mount.....	2
40	c 320161	Washer	6
41	a 320161	Washer	4
42	a 1397808	Washer	2
43	a 292535	Capscrew.....	2
44	895963	Clamp	1
45	320159	Washer	1
46	292682	Lockwasher.....	1
47	136692	Nut	1
48	1502000	Clamp	1
49	1549372	Clamp	1
50	1388911	Radiator (Powershift)	1
51	2035359	Hose (Gas and LPG) (Upper).....	1
52	2035355	Hose (Gas and LPG) (Lower)	1
53	2059675	Hose (Diesel) (Lower)	1
54	2059677	Hose (Diesel) (Upper).....	1
55	1329272	U-Nut	4
56	1549449	Clamp (Diesel).....	2
57	1394595	Adapter (Diesel)	1
57	1394594	Adapter (Gas and LPG).....	1
58	35116	Capscrew (Diesel)	4
58	34811	Capscrew (Gas and LPG).....	3
59	177948	Lockwasher (Diesel)	4
59	177947	Lockwasher (Gas and LPG)	3
60	1394581	Drive Shaft (Gas and LPG) (☞ Figure 2-2)	1
60	1396174	Drive Shaft (Diesel) (☞ Figure 2-2)	1
61	1356316	Nut	6
62	1398062	Nut	6
63	1400229	Screen	1

FOOTNOTES:

- a** (Long Wheel Base)
- b** (With Overhead Exhaust or UL Safety, Short Wheel Base)
- c** (With Standard Counterweight Exhaust, Long Wheel Base)
- d** (With Standard Counterweight Exhaust, Short Wheel Base)
- e** With Overhead Exhaust H4.00

[illegible]

FAN DRIVE ASSEMBLY (Figure 2-2)



BP060015

FAN DRIVE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
1	292527	Capscrew.....	2
2	292683	Lockwasher.....	8
3	320161	Washer	2
4	1398062	Nut	3
5	2035322	Plate	1
6	2029170	Cushion (Rubber)	4
7	320159	Washer	4
8	292682	Lockwasher.....	6
9	287854	Capscrew.....	4
10	.....	Fan Assembly	1
11	287854	Capscrew	2
12	292682	Lockwasher	2
13	1499369	Bracket	1
14	1394712	Fan (Draw Through)	1
15	136749	Capscrew	4
16	292681	Lockwasher	4
17	.....	Fan Mount Assembly.....	1
18	1495666	Pulley	1
19	1504380	Pin.....	1
20	124668	Bearing.....	4
20	257291	Adhesive	AR
21	1504256	Spacer.....	1
22	1531750	Snap Ring	1
23	12928	Snap Ring	1
24	292522	Capscrew.....	1
25	1396779	Tensioner	1
26	2048095	V-Belt (4 Rib)	1
27	1394595	Adapter (Diesel).....	1
27	1394594	Adapter (Gasoline and LPG)	1
28	177948	Lockwasher (Diesel)	4
29	35116	Capscrew (Diesel)	4
30	293780	Lockwasher.....	8
31	296011	Capscrew.....	8
32	1396174	Drive Shaft (Diesel).....	1
32	53065	Flange	2
32	278085	Spider Bearing	2
32	1394581	Drive Shaft (Gasoline and LPG)	1
32	53065	Flange	2
32	278085	Spider Bearing	2
33	136985	Capscrew.....	1
34	1396726	Washer	1
35	1495665	Pulley (Pump Drive).....	1
36	1499373	Bracket.....	1
37	320161	Washer	6
39	287837	Capscrew (Diesel)	6
39	287837	Capscrew (Gasoline and LPG).....	4
40	292535	Capscrew.....	2
41	1397808	Washer (Long Wheel Base).....	2
42	1397807	Mount (Long Wheel Base).....	2
43	136692	Nut	1

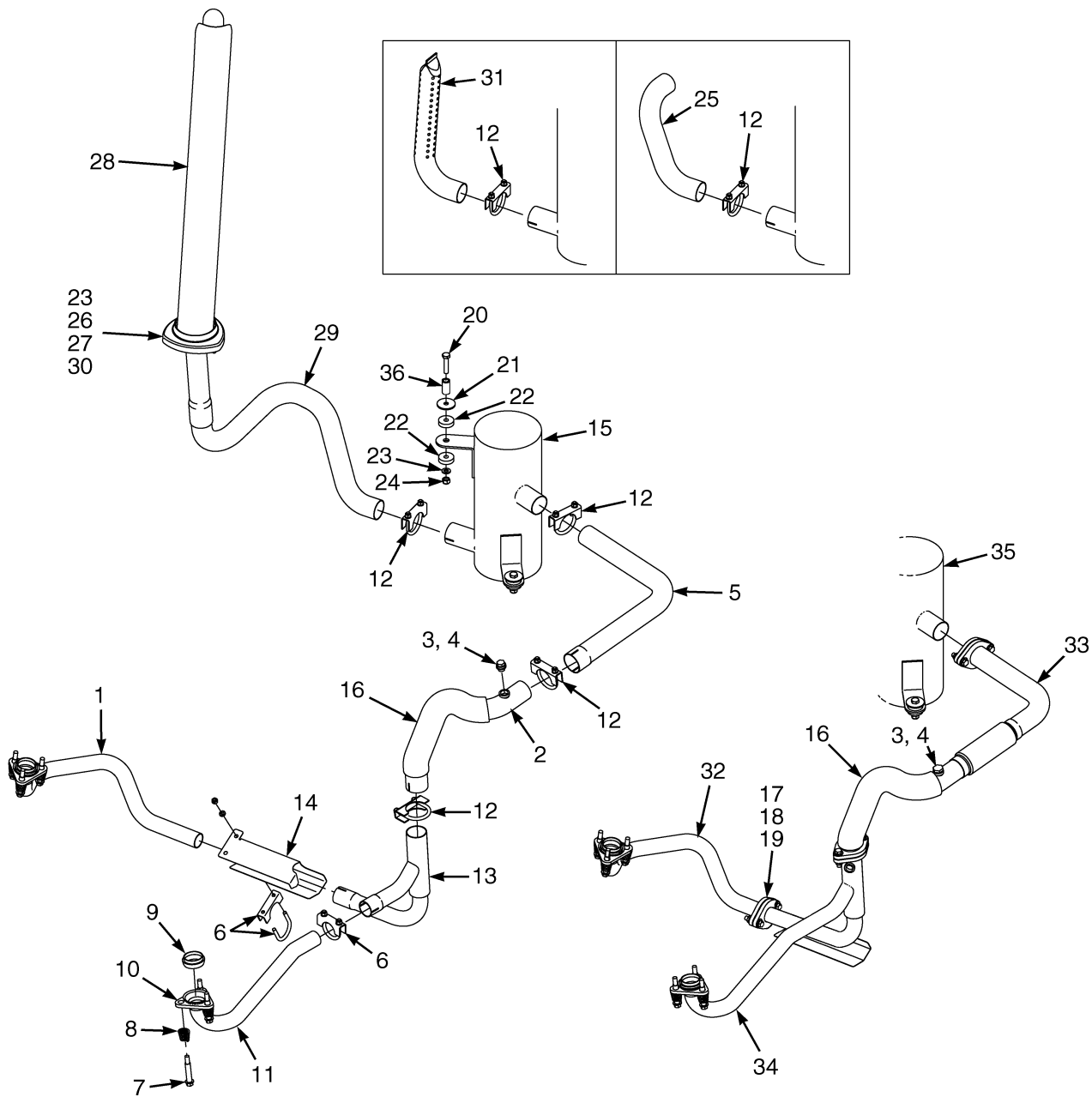
BP090126

ENGINE BELT DRIVE AND ALTERNATOR MOUNTING

4.3L EPA COMPLIANT ENGINE

ITEM	PART NO.	DESCRIPTION	QTY
1	139743	Locknut	1
2	261379	Washer	2
3	189338	Spacer	1
4	305100	Sleeve	1
5	18546	Capscrew.....	1
6	15156	Lockwasher.....	8
7	1527881	Capscrew.....	1
8	221522	Capscrew.....	3
9	15134	Washer	3
10	1384578	Bracket.....	1
11	1383204	Pulley (Water Pump).....	1
12	292681	Lockwasher.....	4
13	136681	Capscrew.....	4
14	2043404	Serpentine Belt.....	1
15	1396779	Tensioner	1
16	16598	Capscrew.....	3
17	320159	Washer	1
18	292682	Lockwasher.....	1
19	292522	Capscrew.....	1
20	1377750	Pulley	1
21	39373	O-Ring	1
22	15157	Lockwasher.....	1
23	221546	Capscrew.....	1

EXHAUST (Figure 2-4) GAS AND LPG



HP110010

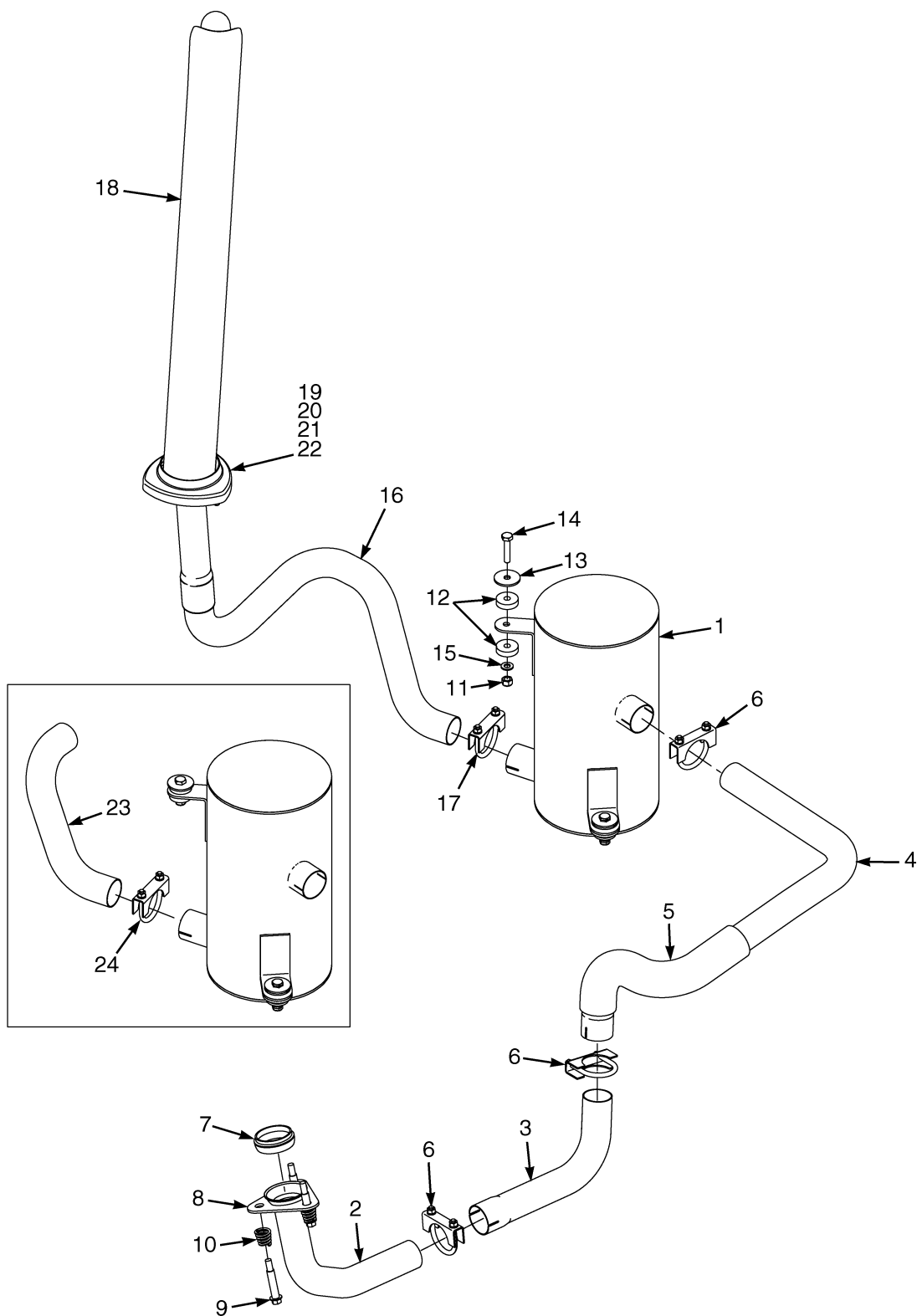
**EXHAUST
GAS AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	1476018	Exhaust Pipe	1
2	1500439	Exhaust Pipe	1
3	1396518	Plug	1
4	2047053	Lubricant.....	AR
5	1476107	Exhaust Pipe	1
6	68968	Clamp	2
7	1337118	Bolt	6
8	1335898	Spring	6
9	1338258	Seal	2
10	1499514	Flange.....	2
11	1476017	Exhaust Pipe	1
12	63116	Clamp	3
12	ac 63116	Clamp	4
12	e 63116	Clamp	1
13	1476015	Exhaust Pipe	1
14	1397822	Shield.....	1
15	2037114	Muffler.....	1
16	b 1511725	Shield.....	1
17	b 1402189	Gasket	3
18	b 1512403	Capscrew.....	6
19	b 1460477	Nut (Flange).....	6
20	292517	Capscrew.....	2
20	b 292509	Capscrew.....	2
20	d 292517	Capscrew.....	1
21	1351176	Washer	2
22	1351177	Rubber Cushion.....	4
23	320159	Washer	2
23	cd 320159	Washer	3
23	b 320158	Washer	2
24	316826	Nut	2
24	b 313828	Nut	2
25	a 1394803	Exhaust Pipe	1
26	c 287854	Capscrew.....	3
27	c 292682	Lockwasher.....	3
28	c 1396574	Overhead Exhaust.....	1
29	c 1396696	Exhaust Pipe	1
30	c 1351178	Cover	1
31	e 1537498	Exhaust Pipe	1
32	b 1476052	Exhaust Pipe	1
33	b 1476045	Exhaust Pipe	1
34	b 1476048	Exhaust Pipe	1
35	bd 2062696	Muffler (Catalyzed) (Three-Way)	1
36	b 1553420	Spacer	2

FOOTNOTES:

- a** Counterweight
- b** EPA Compliant
- c** Overhead
- d** U.L. Safety
- e** U.L. Safety - Counterweight

EXHAUST (Figure 2-5) DIESEL TIER II



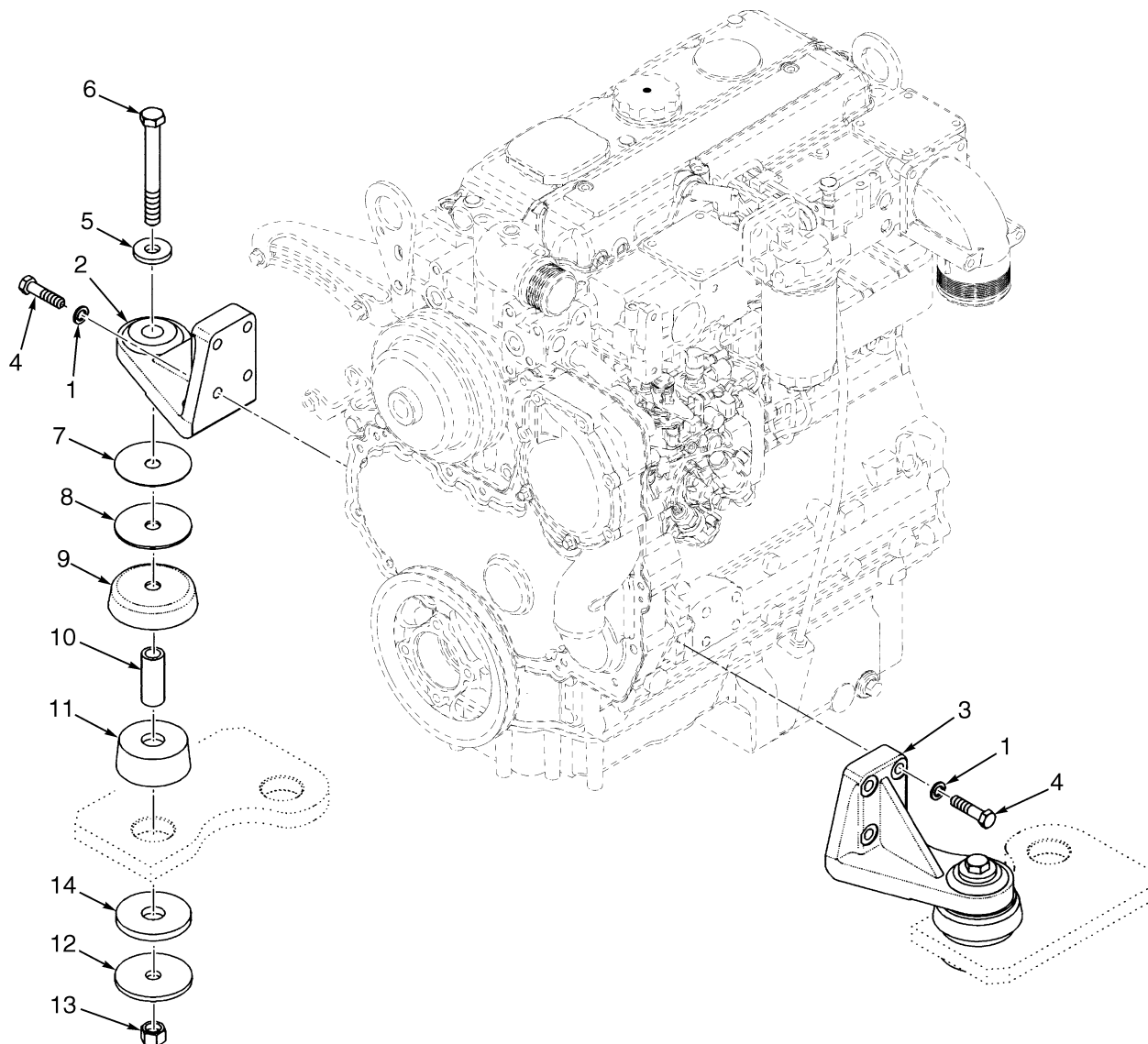
HP110009

**EXHAUST
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	2037114	Muffler.....	1
1	2037113	Muffler (Type "DS")	1
1	2038000	Muffler (Two-Way Catalytic)	1
2	1532537	Exhaust Pipe	1
3	1532620	Exhaust Pipe	1
4	1532621	Exhaust Pipe	1
5	1399791	Shield.....	1
6	63116	Clamp	3
7	1396139	Seal	1
8	1396079	Adapter	1
9	1337118	Bolt	1
10	1335898	Spring	1
11	316826	Nut	2
12	1351177	Rubber Cushion.....	4
13	1351176	Washer	2
14	292517	Capscrew.....	2
15	320159	Washer	2
16	b 1396696	Exhaust Pipe	1
17	b 63116	Clamp	1
18	b 1396574	Overhead Exhaust.....	1
19	b 292682	Lockwasher.....	3
20	b 320159	Washer	3
21	b 287854	Capscrew.....	3
22	b 1351178	Cover	1
23	a 1394803	Exhaust Pipe	1
24	a 63116	Clamp	1

FOOTNOTES:**a** Counterweight**b** Overhead

ENGINE MOUNT (Figure 2-6) DIESEL TIER II

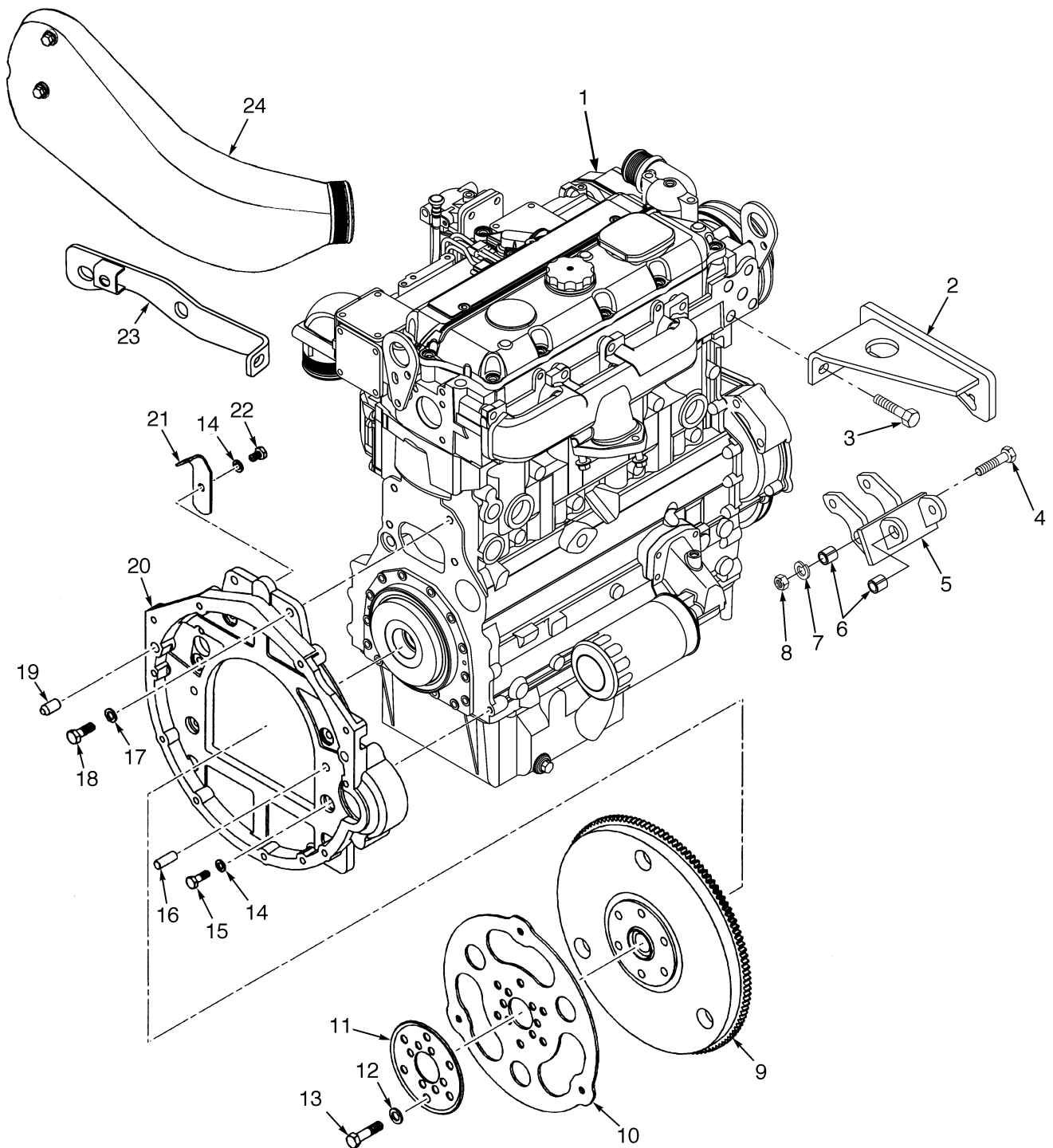


BP090099

**ENGINE MOUNT
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	292683	Lockwasher.....	8
2	1394716	Mount (LH).....	1
3	1394717	Mount (RH)	1
4	293649	Capscrew.....	8
5	1357322	Washer	2
6	292575	Capscrew.....	2
7	1397762	Shim (0.039 in.)	AR
8	1397761	Washer	2
9	1378198	Snubber Cup (Snubbing)	2
10	1394437	Spacer	2
11	1388704	Isolator.....	2
12	1302938	Washer	2
13	316828	Nut	2
14	1394436	Bumper	2

ASSEMBLED ENGINE (Figure 2-7) DIESEL TIER II

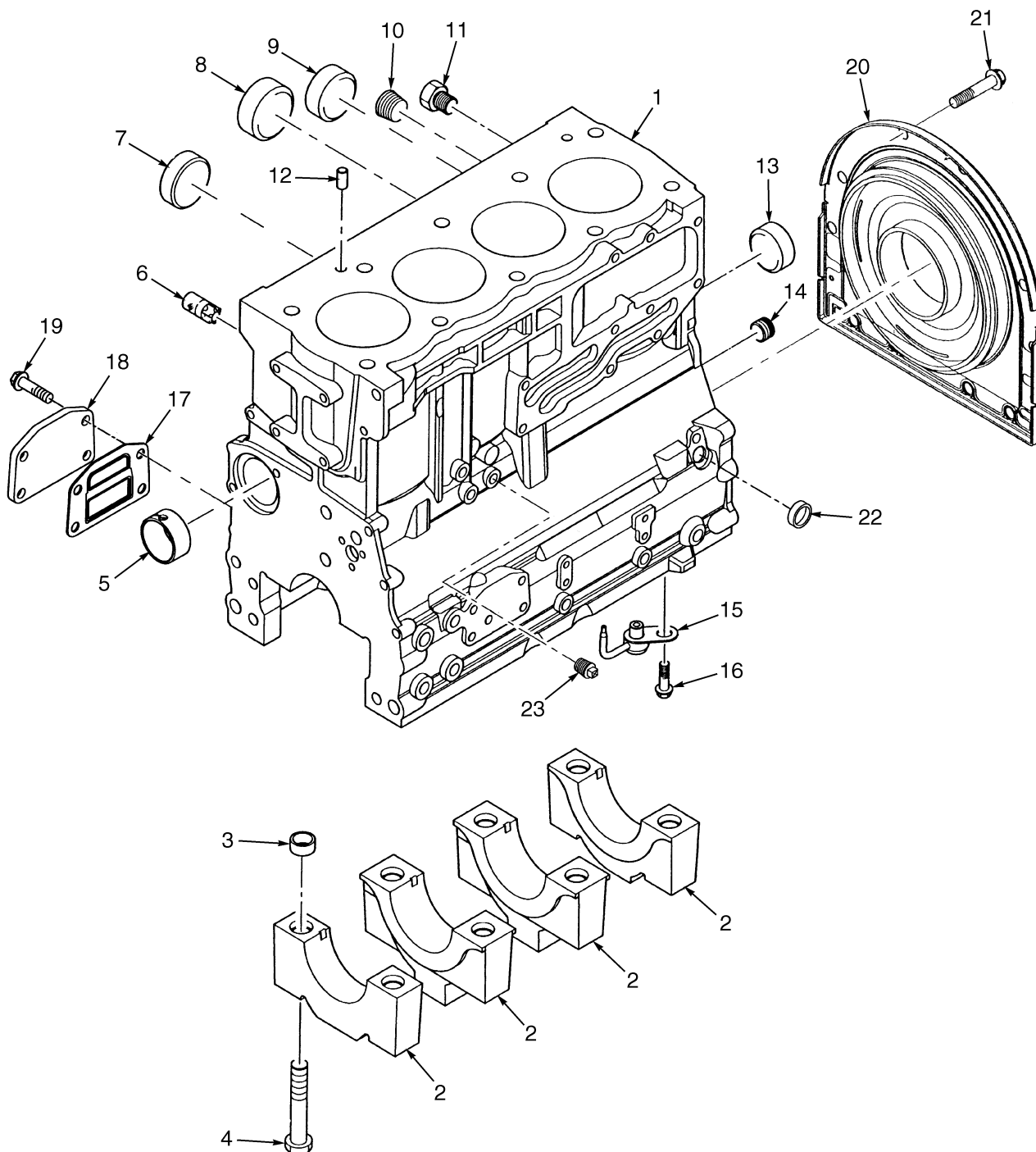


BP090100

**ASSEMBLED ENGINE
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1523798	Engine	1
2	1563048	Bracket.....	1
3	1306371	Screw.....	2
4	1307897	Capscrew.....	1
5	1563548	Bracket.....	1
6	1345014	Sleeve.....	2
7	296421	Washer	1
8	1460477	Nut (Flange).....	1
9	1388705	Flywheel Assembly	1
9	1388706	Flywheel	1
9	195856	Ring Gear	1
10	1397689	Flexplate	1
11	1388750	Washer (Special Flex).....	1
12	296422	Washer	6
13	289867	Bolt	7
13	280472	Sealant	AR
14	292682	Lockwasher.....	7
15	136985	Capscrew.....	6
16	186420	Pin	2
17	292683	Lockwasher.....	2
18	292528	Capscrew.....	2
19	1335499	Pin	2
20	1388733	Housing (Flywheel).....	1
21	1378226	Cover	1
22	292513	Capscrew.....	1
23	1552652	Bracket.....	1
24	1535414	Air Intake.....	1

CYLINDER BLOCK (Figure 2-8) DIESEL TIER II

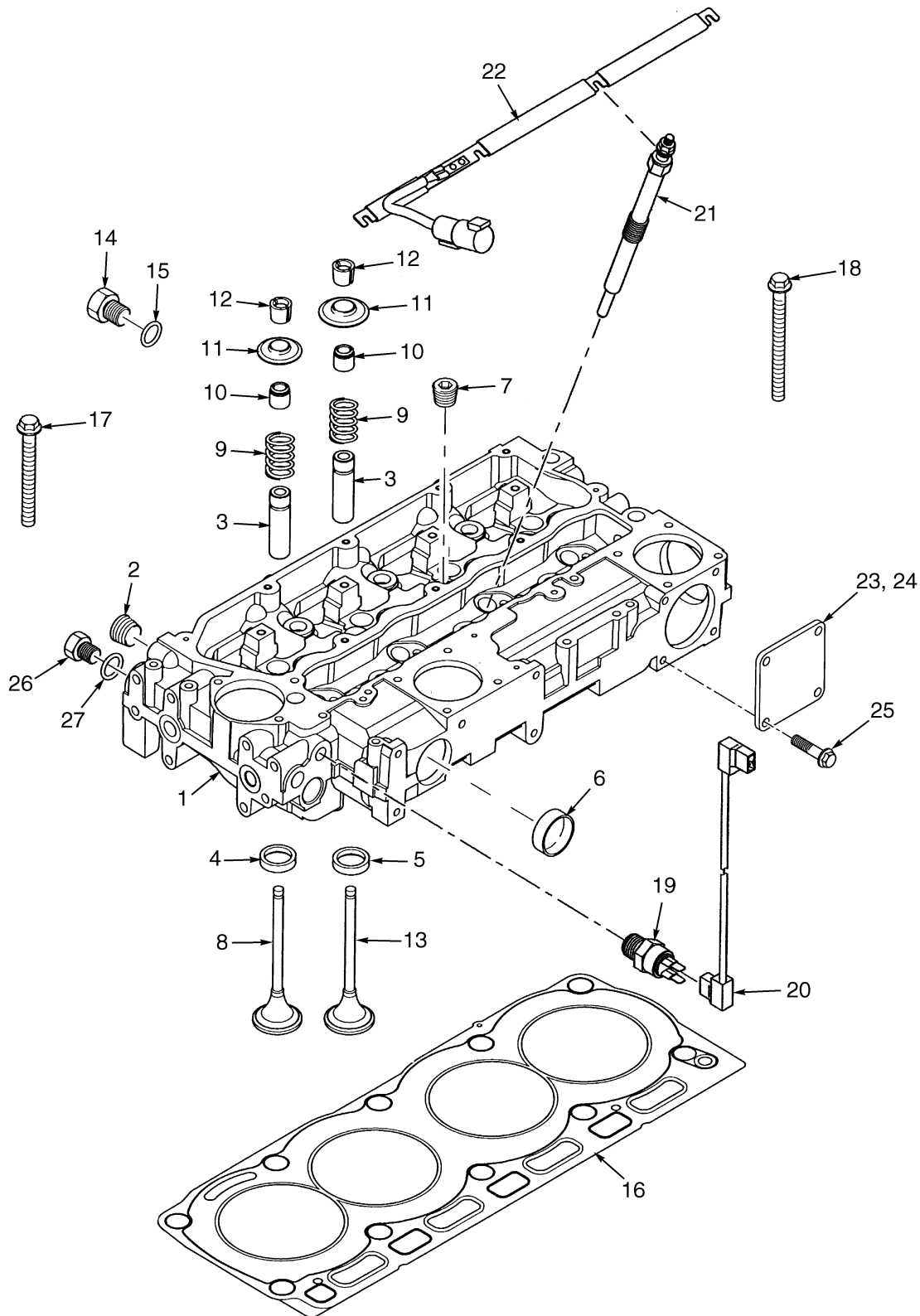


BP090101

**CYLINDER BLOCK
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1554974	Cylinder Block Kit	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	Pin.....	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	1555071	Housing.....	1
21	1537224	Bolt.....	10
22	1555421	Plug.....	1
23	15483	Fitting	1
	1555686	Top Gasket (Includes Item 17)	1

CYLINDER HEAD AND INDUCTION MANIFOLD (Figure 2-9) DIESEL TIER II

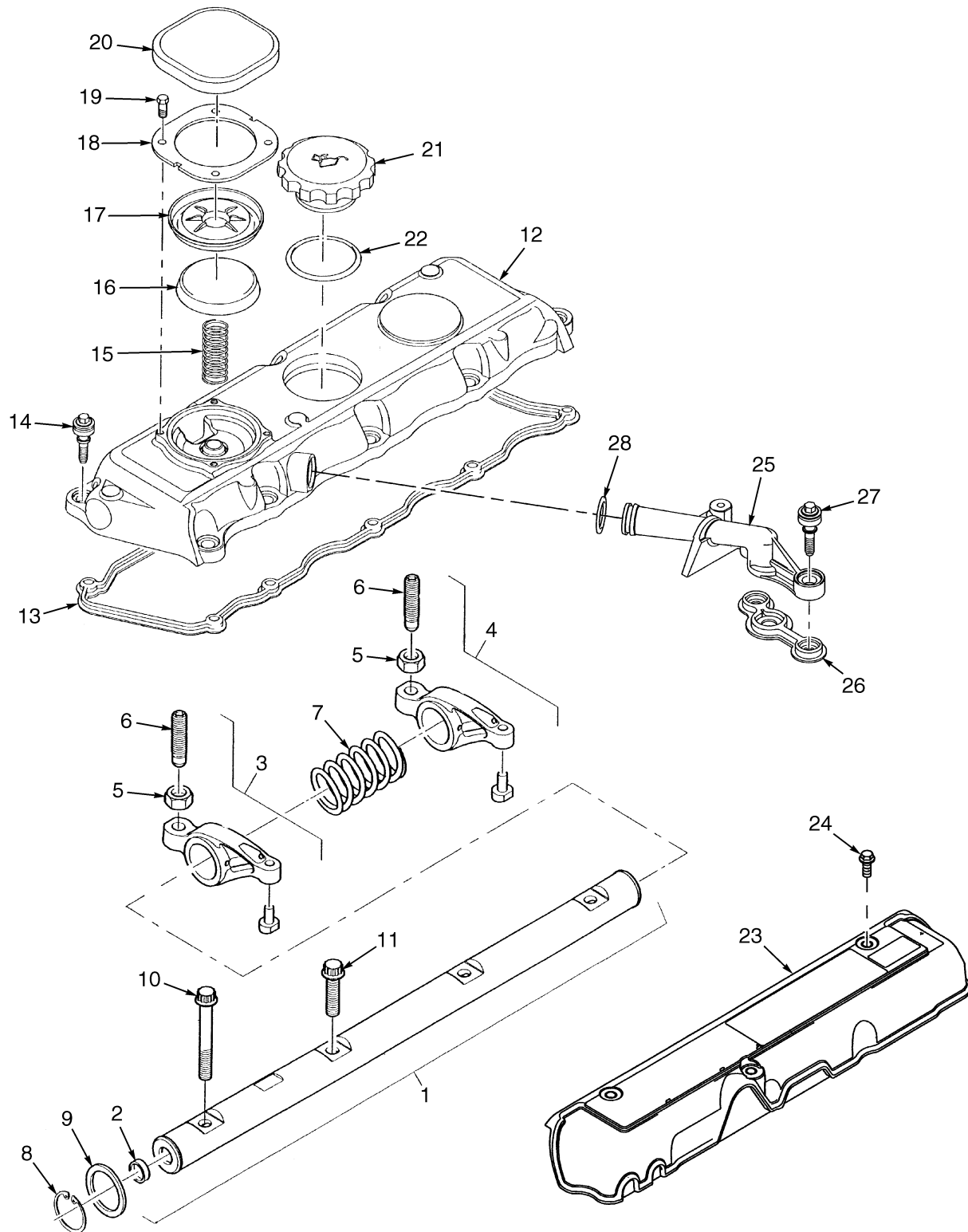


HP091047

CYLINDER HEAD AND INDUCTION MANIFOLD DIESEL TIER II

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1555072	Cylinder Head Kit	1
2	15962	Fitting	1
3	1451629	Valve Guide.....	8
4	1555073	Inlet Valve Insert	4
5	1555074	Exhaust Valve Insert	4
6	1388387	Plug.....	2
7	15304	Fitting	4
8	1555075	Inlet Valve.....	4
9	1555077	Valve Spring.....	8
10	1555076	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	1555081	Gasket.....	1
17	1555082	Screw	7
18	1555083	Screw	3
19	1555419	Sender.....	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	12
26	1555080	Plug	1
27	1537258	O-Ring.....	1
	1555686	Top Gasket (Includes Item 16).....	1

VALVE COVER AND ROCKER ARM SHAFT (Figure 2-10) DIESEL TIER II

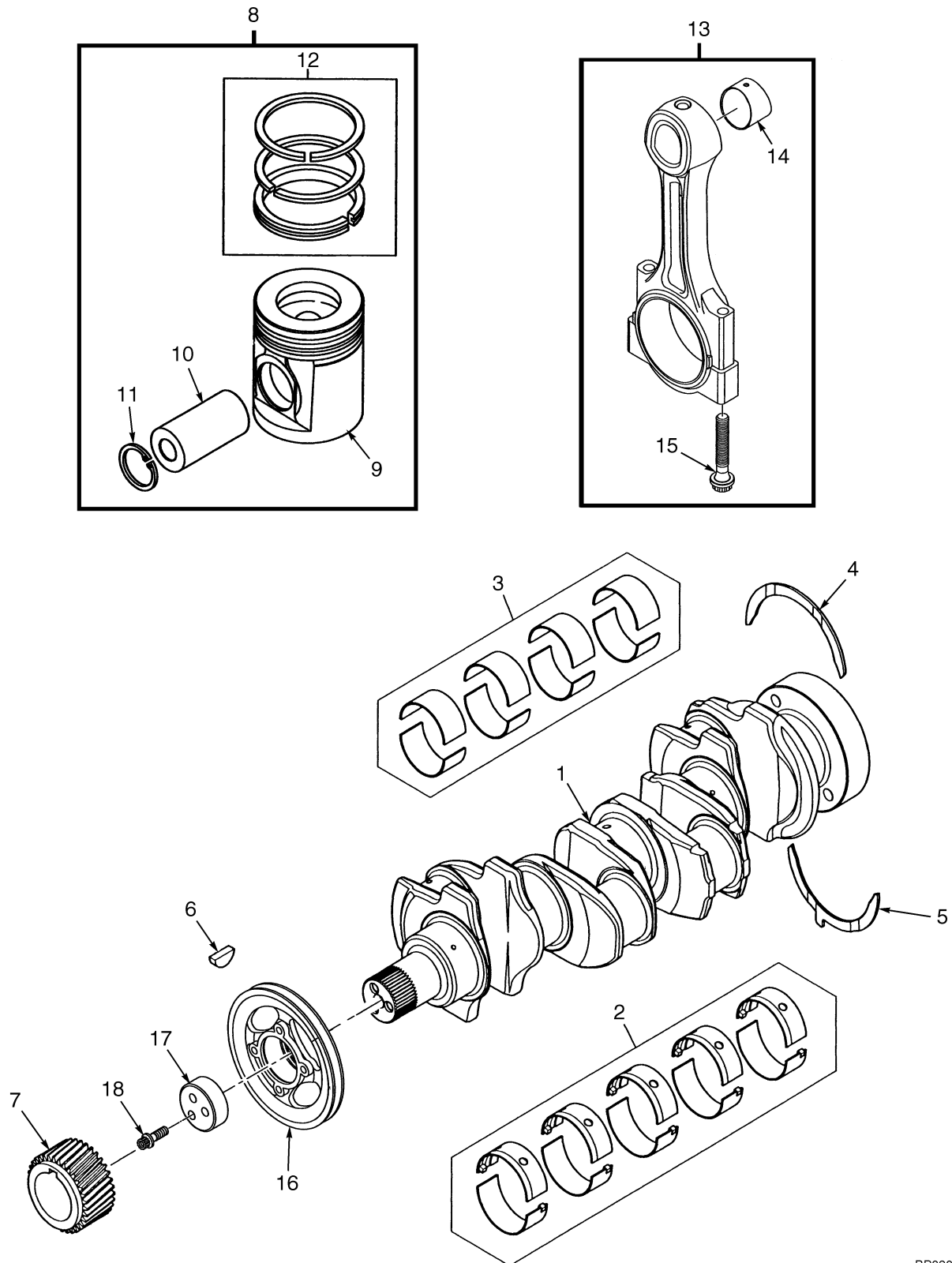


BP090102

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

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
	1555084	Rocker Assembly.....	1
1	1555085	Shaft Assembly	1
2	1555086	Plug.....	2
3	1555088	Rocker Arm Assembly.....	4
4	1555092	Rocker Arm Assembly.....	4
5	15026	Nut	1
6	1466859	Screw.....	1
7	1555091	Spring.....	3
8	1555090	Snap Ring	2
9	1555094	Washer.....	2
10	1555095	Screw	1
11	1555096	Screw	3
12	1555430	Cover Assembly	1
13	1555431	Gasket.....	1
14	1555432	Screw	10
15	1555433	Spring.....	2
16	1555434	Cap	1
17	1555435	Diaphragm	1
18	1555436	Plate.....	1
19	1555437	Screw	4
20	1555438	Cap	1
21	1391246	Cap Assembly	1
22	1516930	O-Ring	1
23	1555447	Cover.....	1
24	1306361	Screw	3
25	1555448	Breather Pipe	1
26	1555449	Gasket.....	1
27	1555432	Screw	2
28	1555451	O-Ring.....	1
	1555686	Top Gasket (Includes Items 13, 26)	1

CRANKSHAFT AND PISTONS (Figure 2-11) DIESEL TIER II

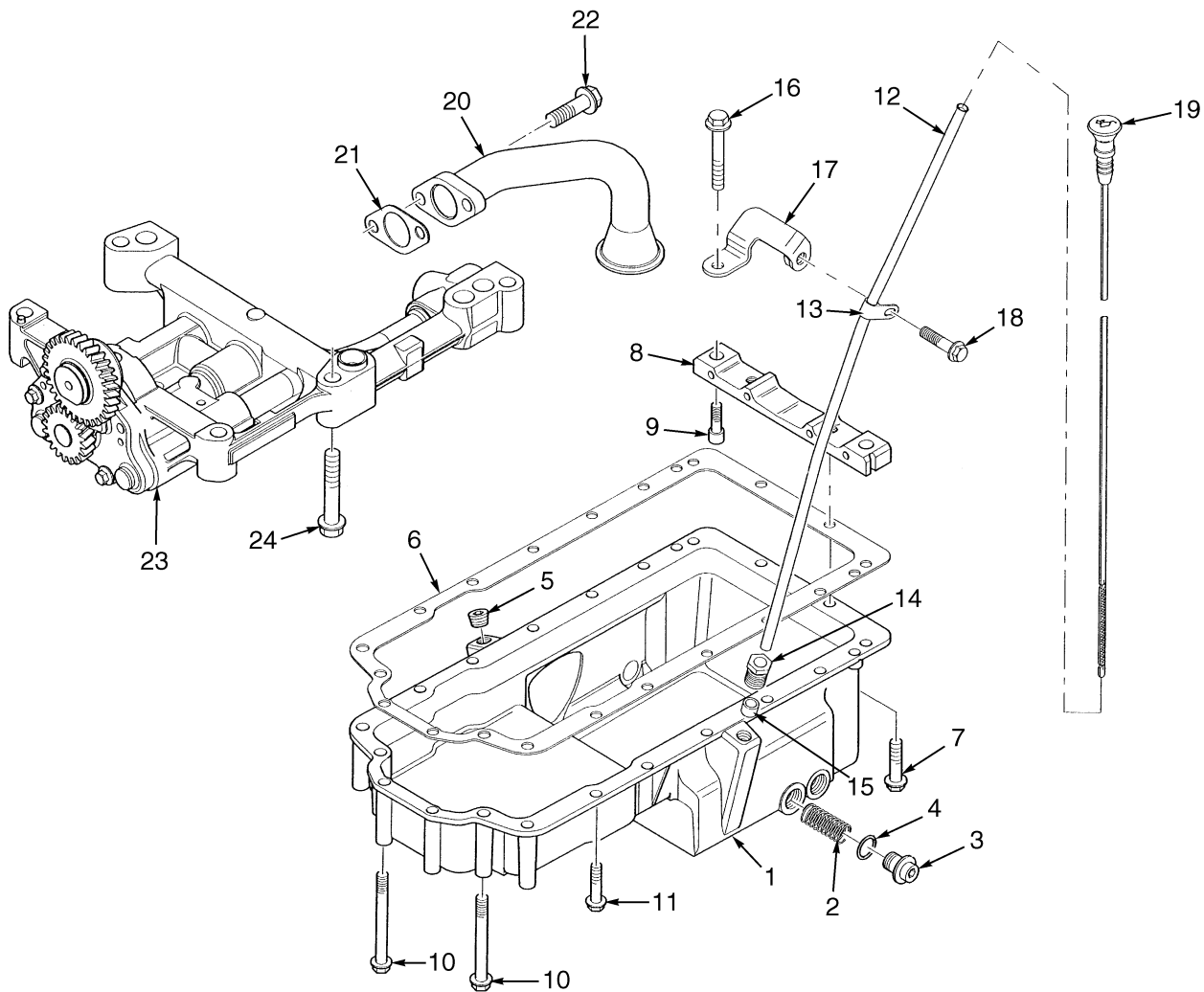


BP090103

**CRANKSHAFT AND PISTONS
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1554985	Crankshaft Assembly	1
2	1554986	Main Bearing Kit (Standard).....	1
2	1554988	Main Bearing Kit (0.10 in.)	1
2	1554989	Main Bearing Kit (0.20 in.)	1
2	1554990	Main Bearing Kit (0.30 in.)	1
3	1554987	Bearing Kit (Standard)	1
3	1554991	Bearing Kit (0.10 in.)	1
3	1554992	Bearing Kit (0.20 in.)	1
3	1554993	Bearing Kit (0.30 in.)	1
4	842799	Thrust Washer (Standard).....	2
4	161296	Thrust Washer (0.007 in.)	2
5	842800	Thrust Washer (Standard).....	2
5	161297	Thrust Washer (0.007 in.)	2
6	99610	Key	1
7	1537216	Gear	1
8	1554994	Piston and Ring Kit.....	4
9	.....	Piston	1
10	.....	Pin.....	1
11	1451606	Snap Ring.....	2
12	1554995	Piston Ring Kit.....	1
13	1555065	Connecting Rod Kit ("F Red").....	4
13	1555066	Connecting Rod Kit ("G Orange").....	4
13	1555067	Connecting Rod Kit ("H White").....	4
13	1555068	Connecting Rod Kit ("J Brown")	4
13	1555069	Connecting Rod Kit ("K Purple")	4
13	1555070	Connecting Rod Kit ("L Blue")	4
14	1555063	Bushing	1
15	1555064	Bolt.....	2
16	1306193	Pulley.....	1
17	1306194	Block.....	1
18	302713	Screw	3

OIL PAN AND PUMP (Figure 2-12) DIESEL TIER II

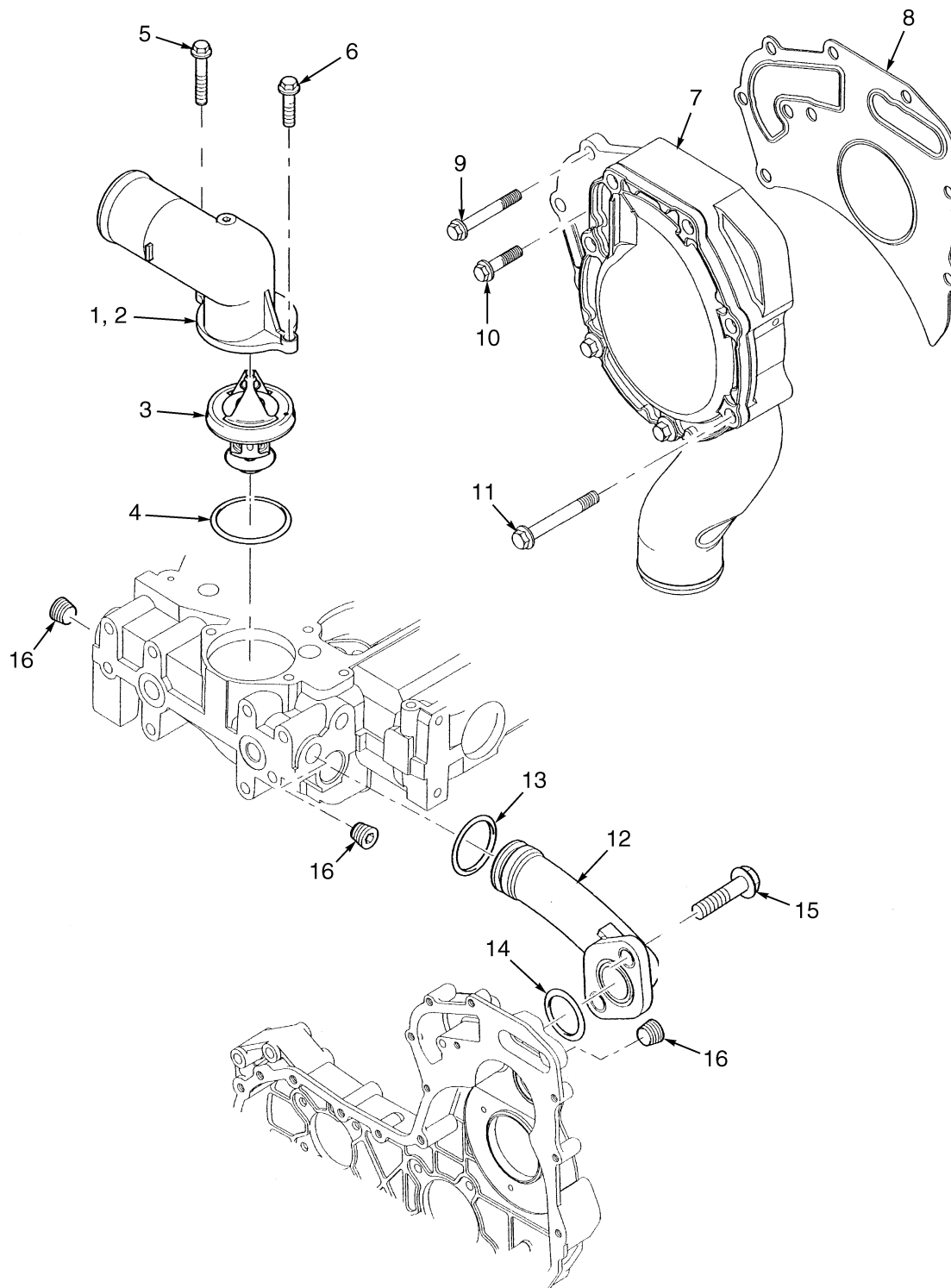


BP090104

**OIL PAN AND PUMP
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1460557	Sump	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 Piece	1
9	1307875	Screw	2
10	1318965	Screw	6
11	386459	Screw	12
12	1555424	Tube	1
13	1555425	Clip	1
14	1307880	Nut	1
15	1306143	Olive	1
16	1555426	Screw	1
17	1555428	Bracket	1
18	1307883	Screw	1
19	1555427	Dipstick	1
20	1555429	Pipe	1
21	1344921	Gasket	1
22	1306358	Screw	2
23	1555490	Oil Pump	1
24	1306365	Screw	5
	1555729	Bottom Gasket Kit (Includes Items 4, 21)	1

WATER PUMP AND OUTLET (Figure 2-13) DIESEL TIER II

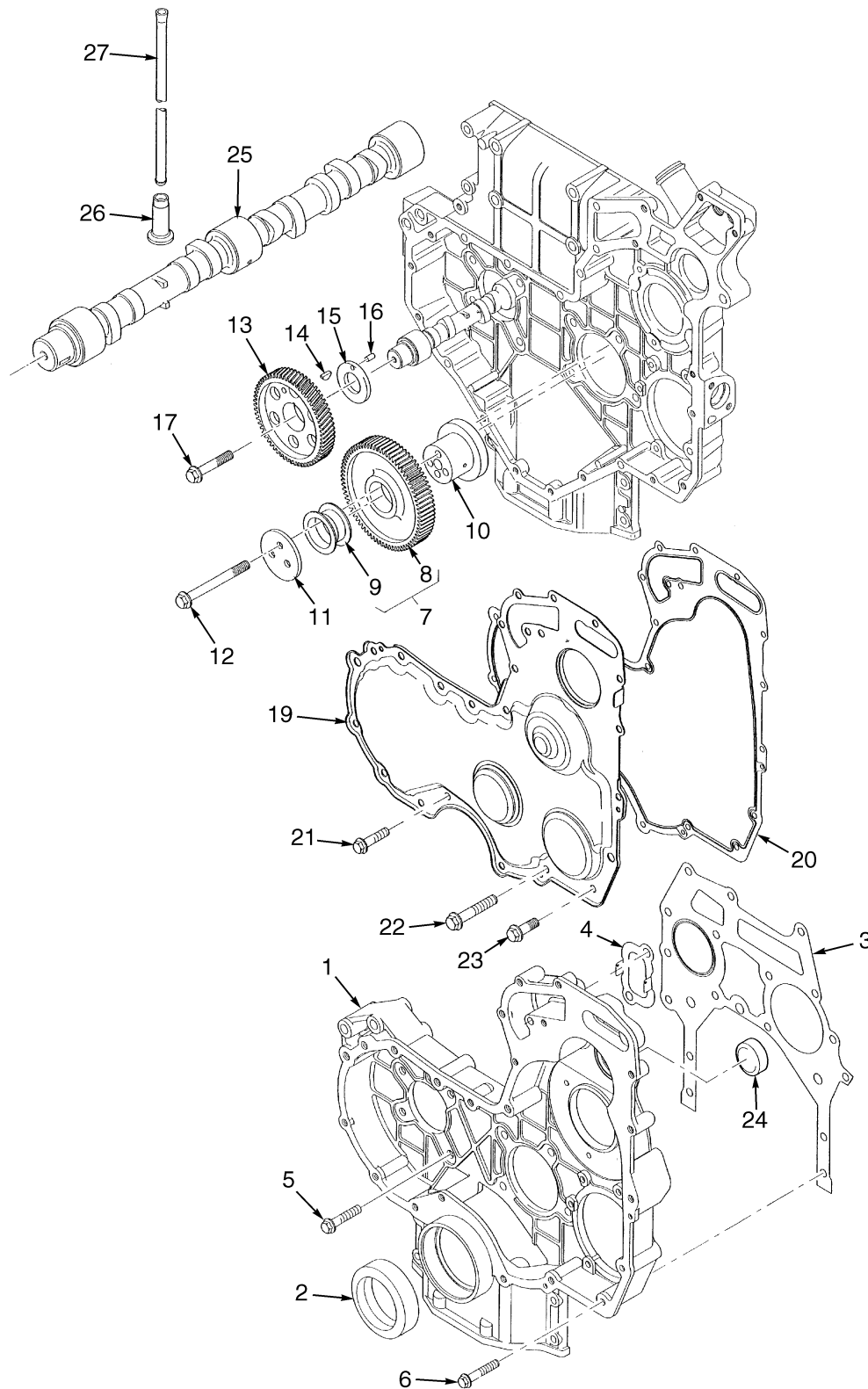


BP090105

**WATER PUMP AND OUTLET
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1555474	Outlet Assembly	1
2	.....	Housing	1
3	1555477	Thermostat.....	1
4	1555478	O-Ring.....	1
5	1307909	Screw	1
6	1306358	Screw	1
7	1555464	Water Pump Replacement Kit	1
7	1555466	Gear	1
7	1555468	Repair Kit	1
8	1555467	Gasket.....	1
9	1380261	Screw	2
10	1306362	Screw	2
11	1307909	Screw	2
12	1555471	Pipe	1
13	1555472	O-Ring.....	1
14	1555473	O-Ring.....	1
15	386459	Screw.....	2
16	15962	Fitting.....	3

TIMING GEAR (Figure 2-14)

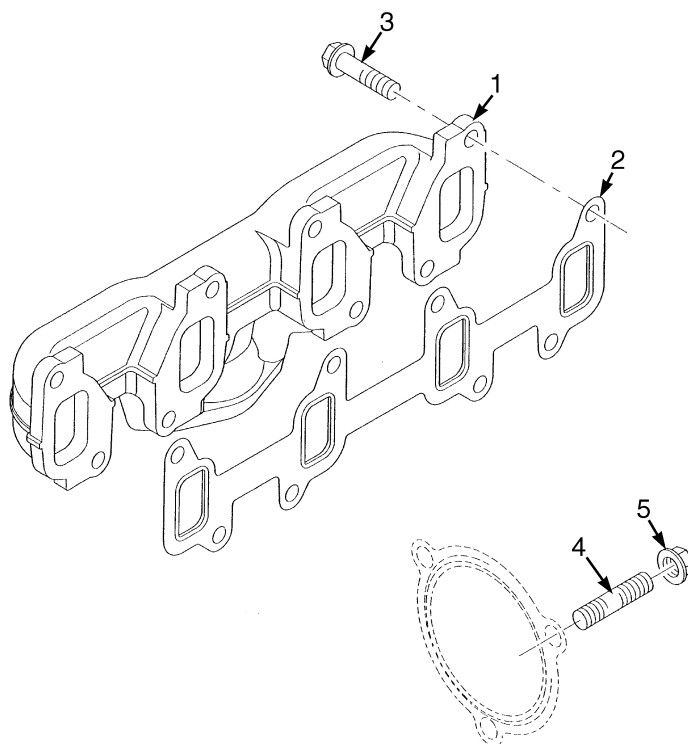


BP090106

**TIMING GEAR
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	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	1555485	Idler Gear Assembly	1
8	.....	Idler Gear	1
9	983484	Bushing	2
10	229875	Hub	1
11	1382479	Plate	1
12	1306356	Screw	6
13	1537297	Gear	1
14	99610	Key	1
15	1306364	Washer	1
16	298096	Pin	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	Bottom Gasket Kit (Includes Items 3-4, 20)	1

EXHAUST MANIFOLD (Figure 2-15) DIESEL TIER II

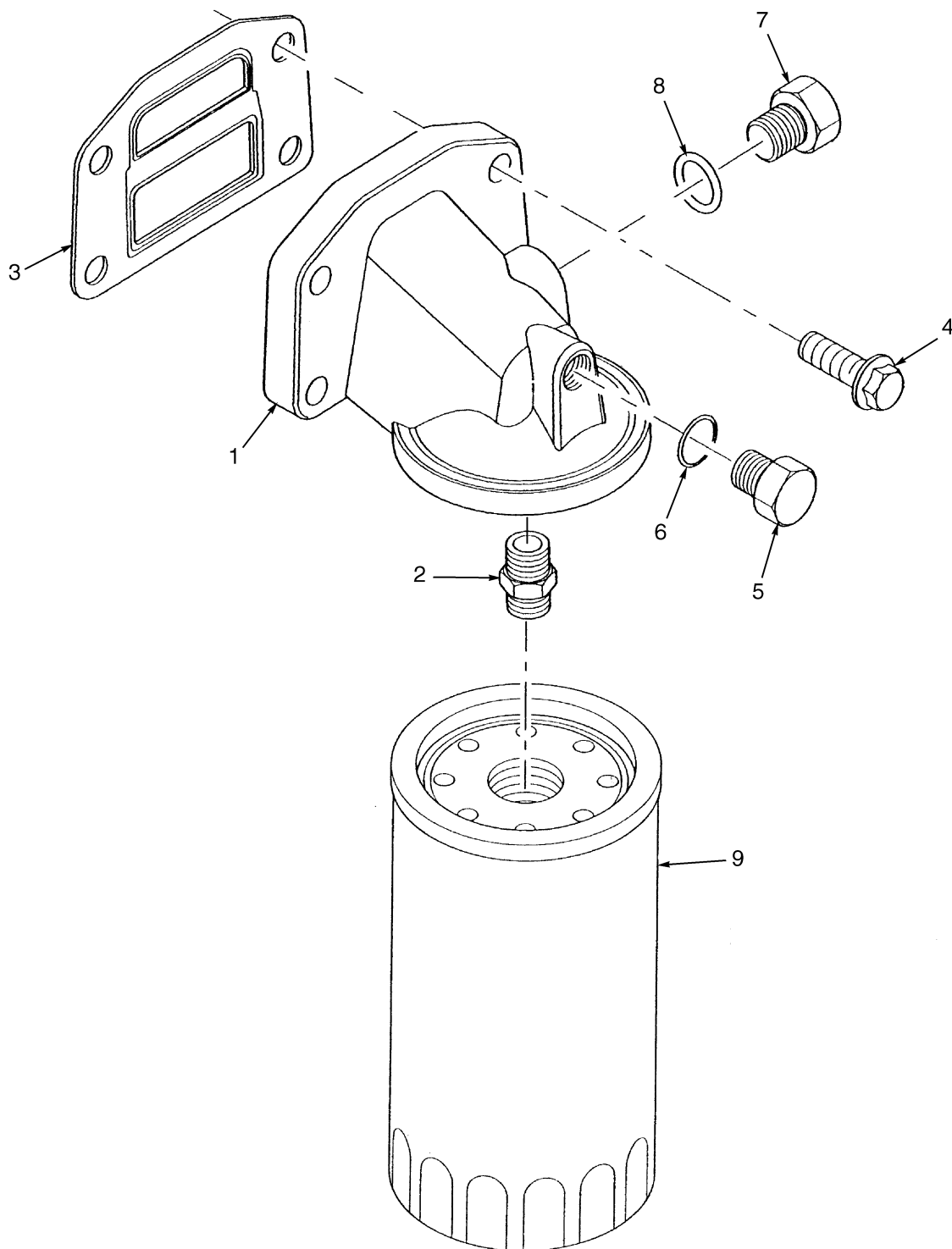


BP090107

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1555491	Exhaust Manifold	1
2	1555492	Gasket	1
3	1516677	Screw	8
4	1307877	Stud	3
5	1306370	Nut	3

[illegible]

OIL FILTER (Figure 2-16) DIESEL TIER II

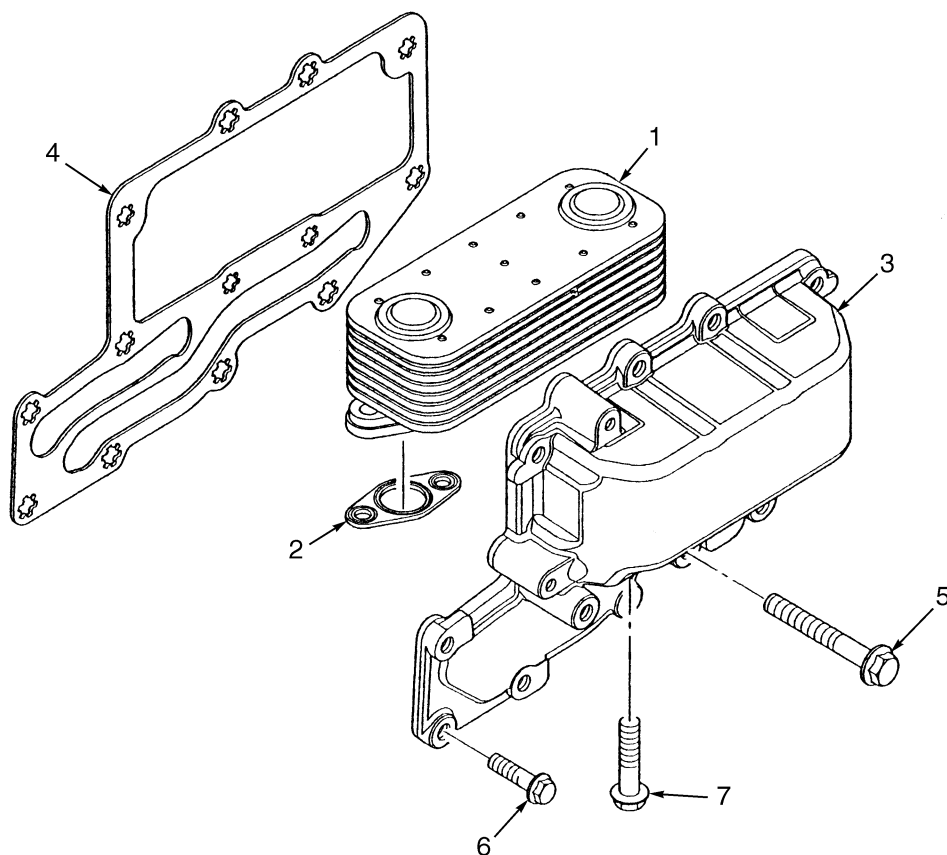


BP090108

**OIL FILTER
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1555457	Filter Head Assembly	1
2	1382954	Connector	1
3	1554984	Gasket	1
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	Bottom Gasket Kit (Includes Item 3)	1

OIL COOLER (Figure 2-17) DIESEL TIER II

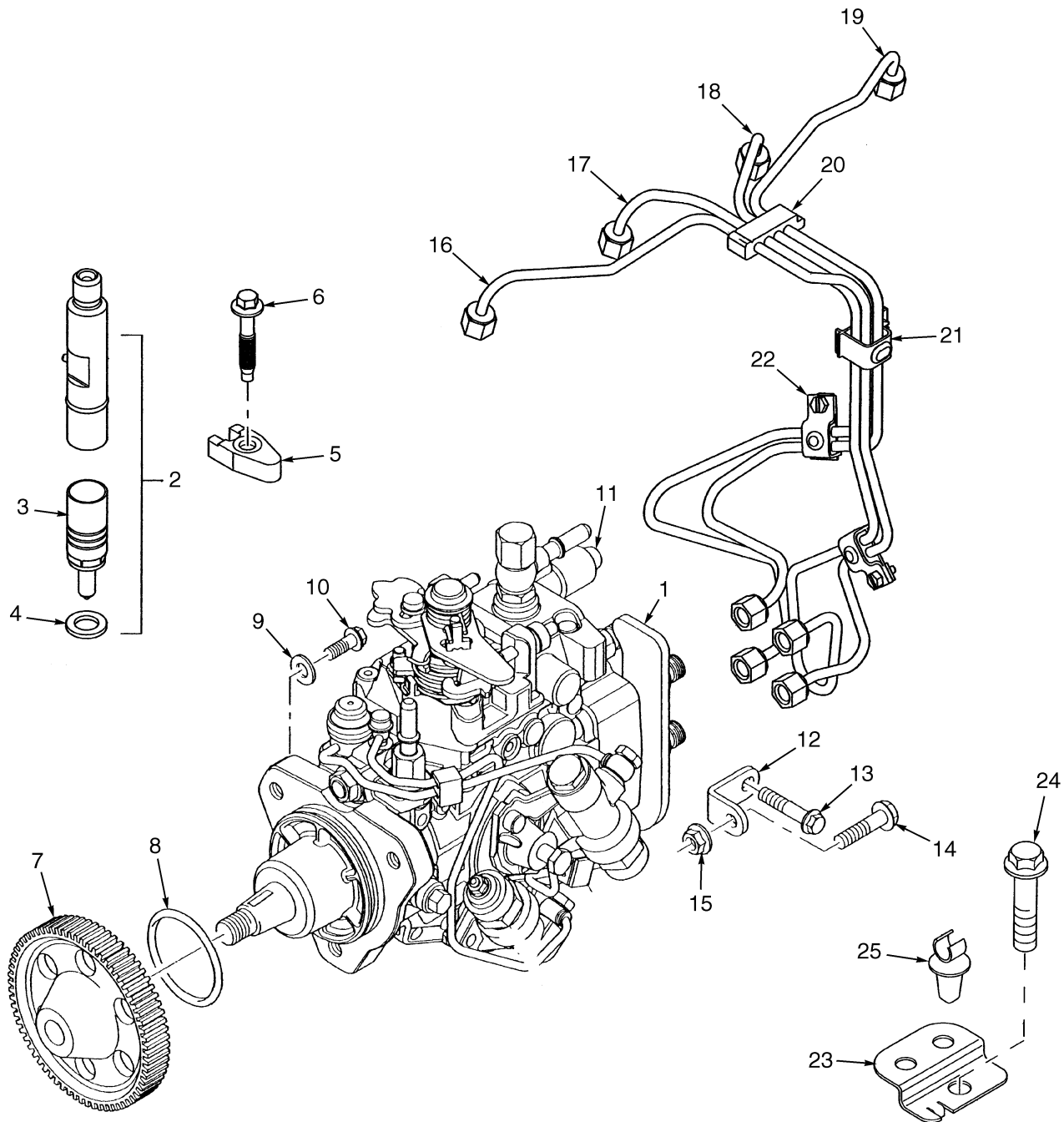


BP090109

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
	1555453	Oil Cooler Assembly	1
1	1555454	Cooler	1
2	1555455	Gasket.....	2
3	.....	Housing.....	1
4	1555456	Gasket.....	1
5	1318968	Screw	3
6	1306358	Screw	10
7	1306373	Screw	4
	1555729	Bottom Gasket Kit (Includes Item 4)	1

[illegible]

FUEL INJECTION PUMP (Figure 2-18) DIESEL TIER II

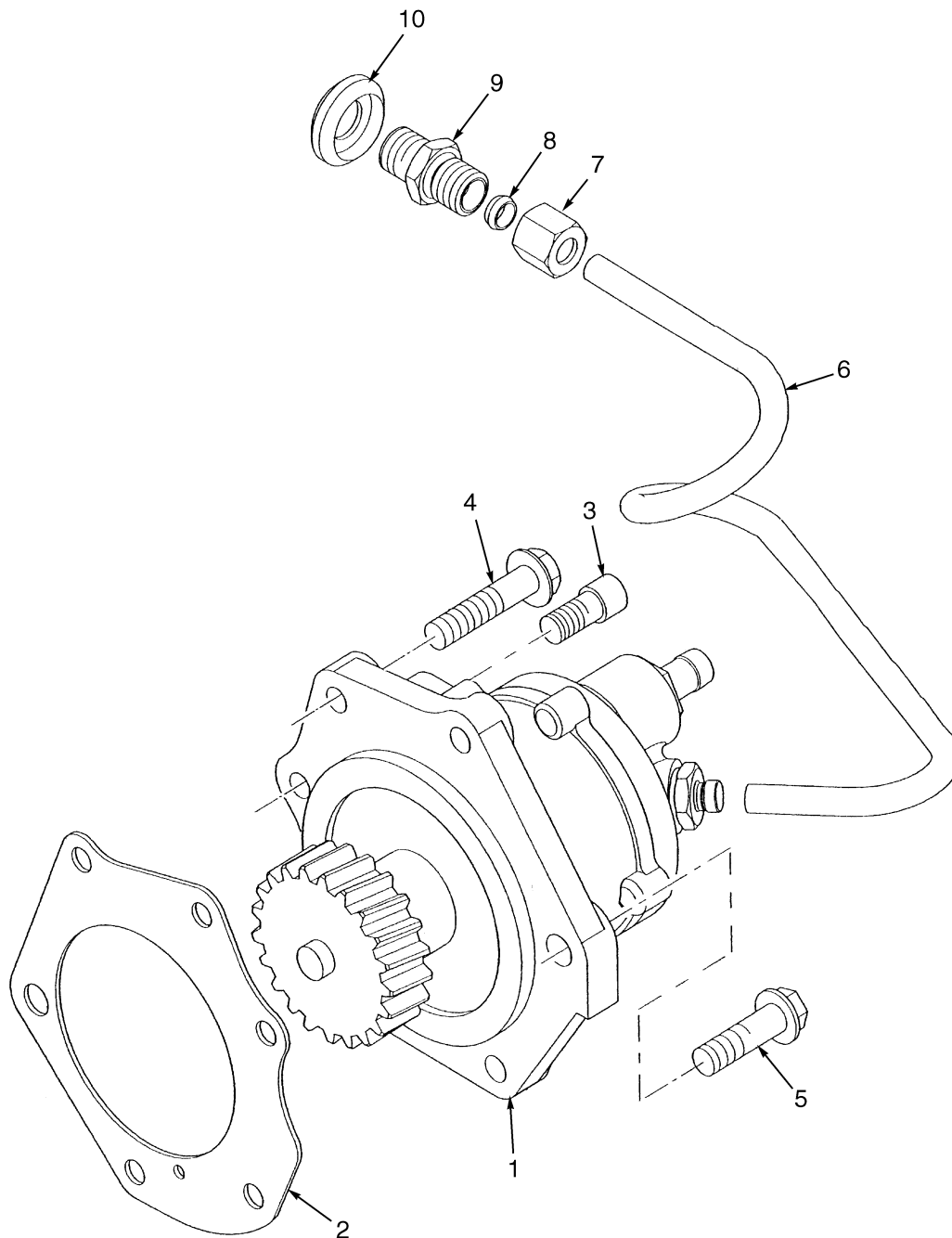


BP090110

**FUEL INJECTION PUMP
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1563921	Fuel Injection Pump.....	1
2	1555262	Atomiser	4
3	1555413	Nozzle	1
4	1451669	Washer.....	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	Fuel Pipe (# 1).....	1
17	1555106	Fuel Pipe (# 2).....	1
18	1555107	Fuel Pipe (# 3).....	1
19	1555108	Fuel Pipe (# 4).....	1
20	1388386	Clip	1
21	1555110	Clip	1
22	1555109	Clip	2
23	1564046	Bracket	1
24	1307881	Screw	1
25	1555502	Clip	1

ROTARY EXHAUSTER (Figure 2-19) DIESEL TIER II

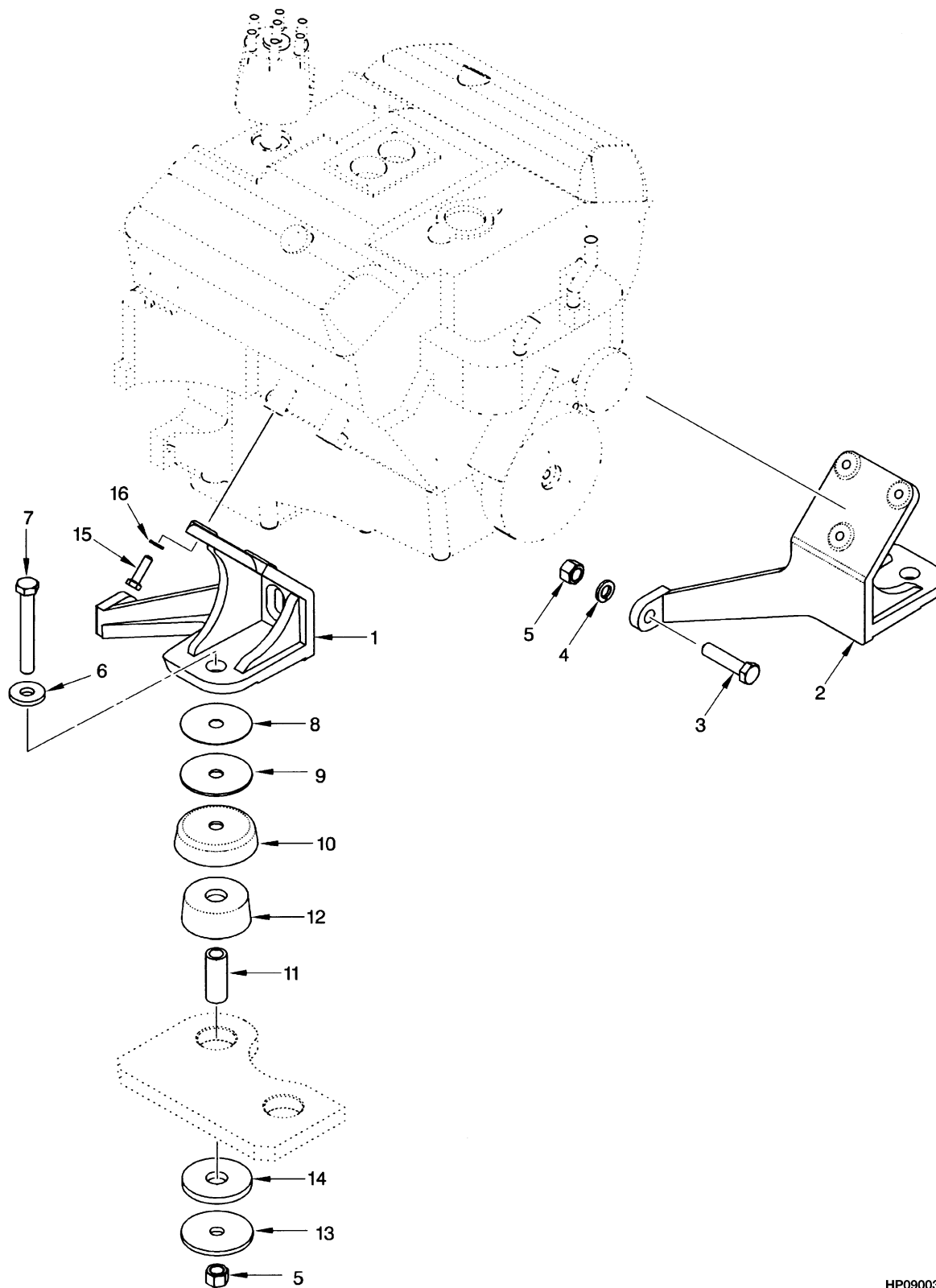


BP090111

**ROTARY EXHAUSTER
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1523798	Engine	1
1	1555489	Rotary Exhauster	1
2	1329660	Gasket	1
3	1306354	Screw	4
4	1464197	Screw	1
5	1307913	Screw	1
6	1507960	Pipe	1
7	16193	Fitting.....	2
8	51455	Fitting.....	2
9	1319028	Adapter.....	1
10	1515805	Washer	1

ENGINE MOUNTING (Figure 2-20) GASOLINE AND LPG



HP090034

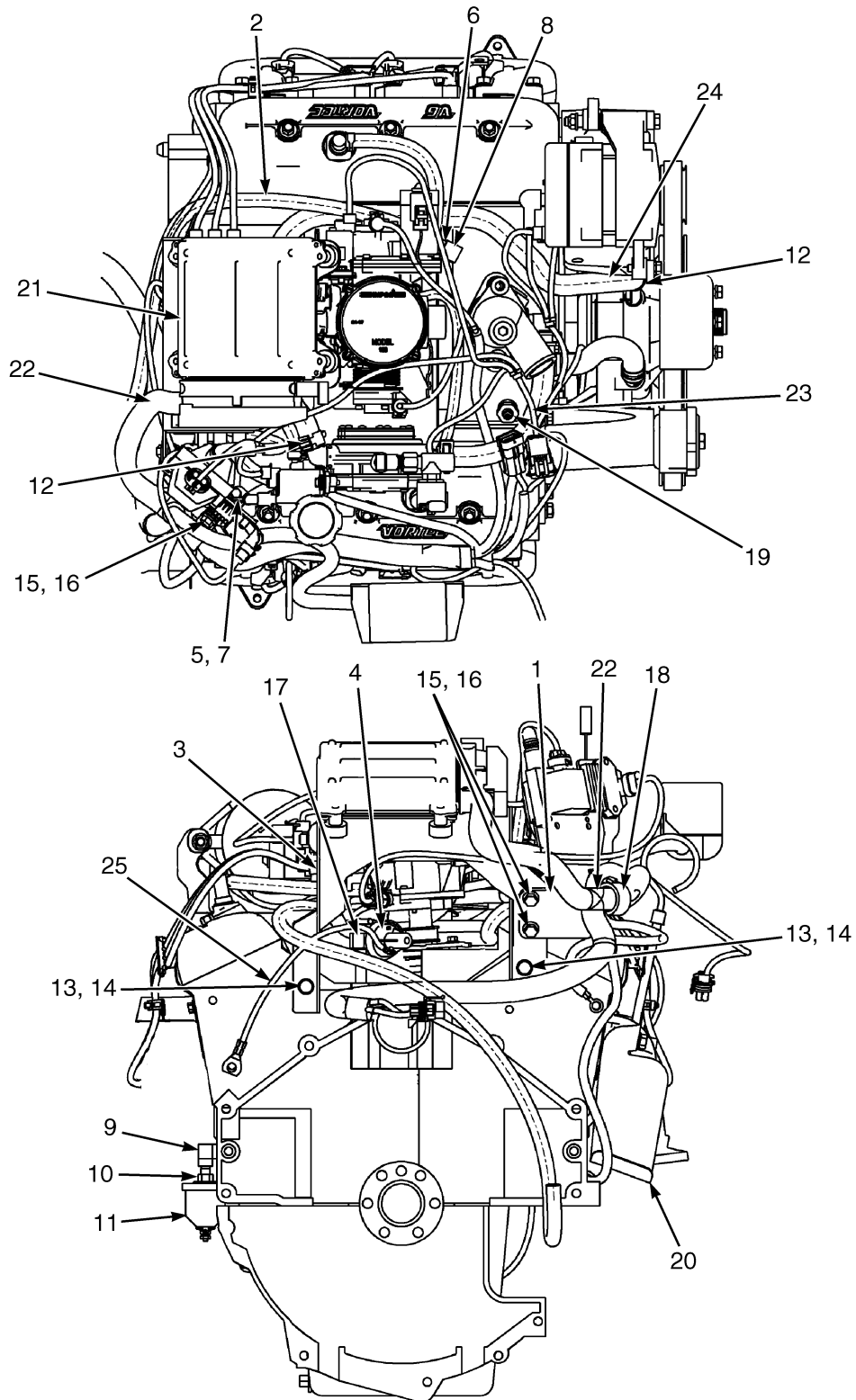
**ENGINE MOUNTING
GASOLINE AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	1394718	Mount (LH).....	1
2	1493062	Mount (RH)	1
3	293690	Capscrew.....	2
4	292685	Lockwasher.....	2
5	316828	Nut	4
6	1357322	Washer	2
7	292573	Capscrew.....	2
8	1397762	Shim (0.039 in.)	AR
9	1397761	Washer	2
10	1378198	Snubber Cup.....	2
11	1394437	Spacer	2
12	1388704	Isolator.....	2
13	1302938	Washer	2
14	1394436	Bumper	2
15	293630	Capscrew.....	6
16	292682	Lockwasher.....	6

ENGINE ASSEMBLY (Figure 2-21)

LPG

4.3 L EPA COMPLIANT



BP090127

ENGINE ASSEMBLY

LPG

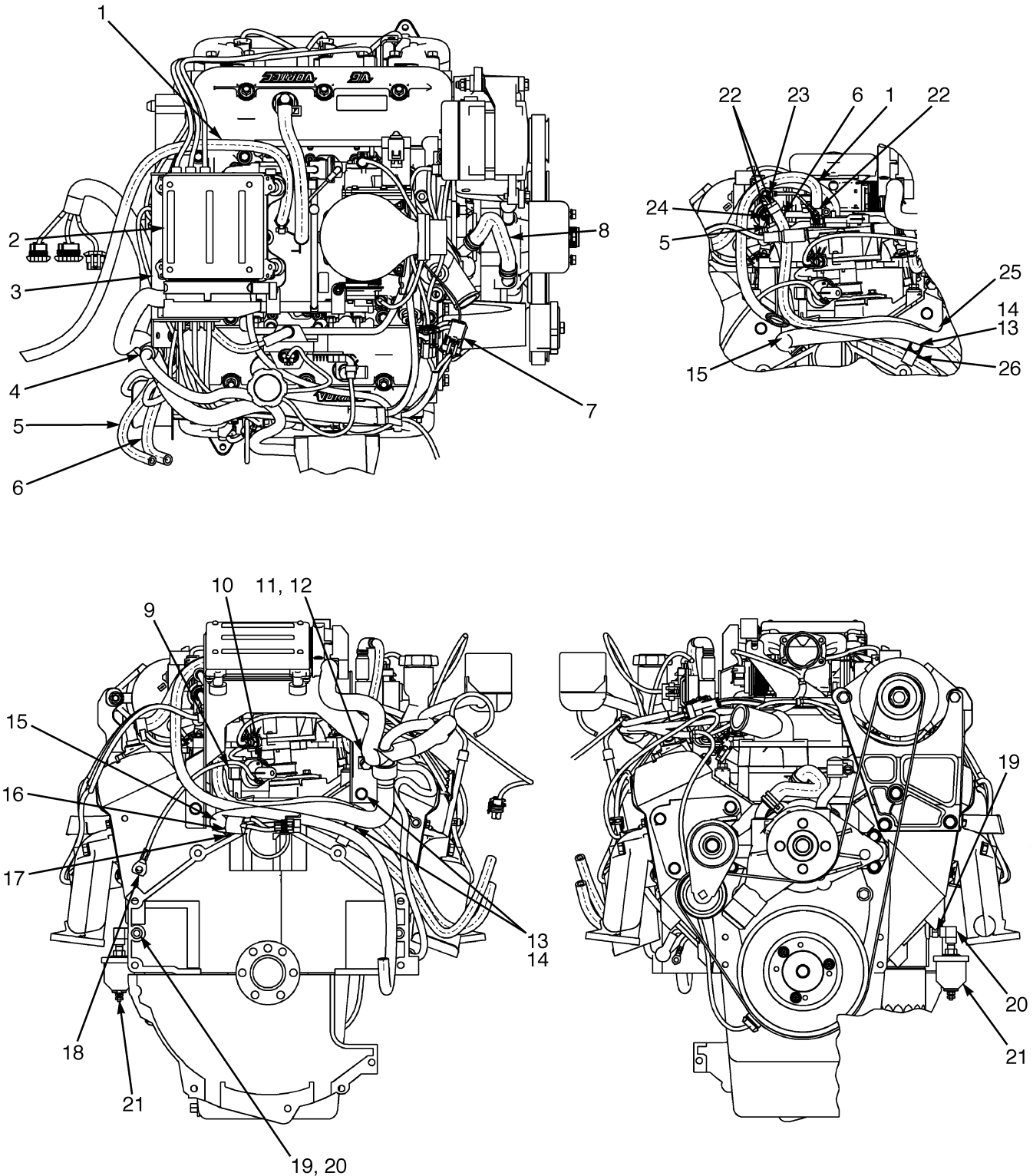
4.3 L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
1	1548520	Bracket.....	1
2	2037906	Hose	1
3	1548244	Bracket.....	1
4	1545857	Pressure Switch.....	1
5	1514429	Nut (Flange).....	2
6	168718	Clamp	1
7	1527877	Screw.....	2
8	201808	Fitting.....	1
9	16167	Fitting.....	1
10	69392	Fitting.....	1
11	1514215	Oil Pressure Sender	1
12	1501994	Clamp	2
13	18535	Capscrew.....	2
14	15156	Lockwasher.....	2
15	1527880	Capscrew.....	3
16	1502543	Nut (Flange).....	3
17	1476145	Fitting.....	1
18	166112	Clamp	1
19	1319190	Temperature Sender	1
20	1502741	Manifold (☞ Figure 2-23)	2
21	2063071	Engine Control Unit	1
22	2068082	Wire Harness (Main Engine)	1
23	2067390	Wire Harness (LPG Regulator).....	1
24	2066720	Hose (Coolant)	1
25	2067573	Wire Harness (Oil Pressure Ground).....	1

ENGINE ASSEMBLY (Figure 2-22)

GASOLINE

4.3 L EPA COMPLIANT



BP090131

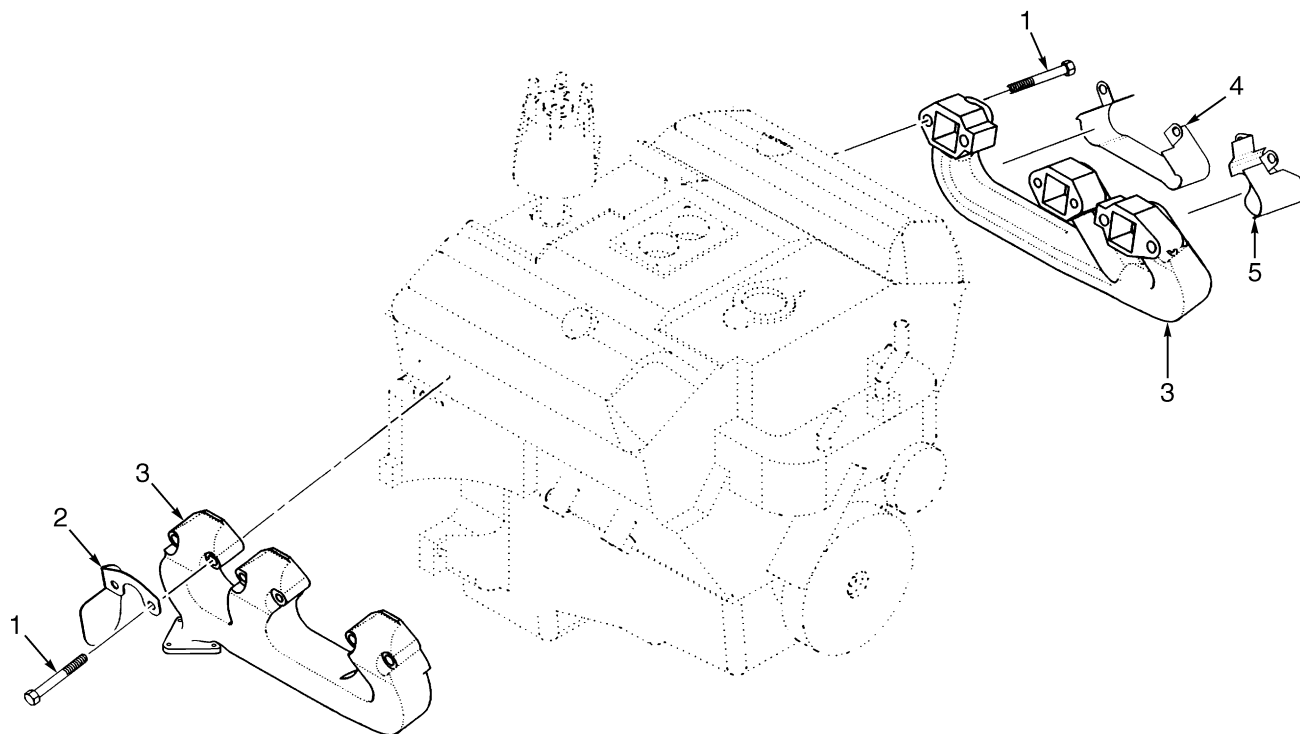
ENGINE ASSEMBLY

GASOLINE

4.3 L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
1	2037906	Hose	1
2	2063109	Engine Control Unit	1
3	1548244	Bracket.....	1
4	2066453	Wire Harness (Main Engine)	1
5	2066140	Hose	1
6	2065967	Hose	1
7	2066454	Wire Harness (Injector).....	1
8	1401163	Hose	1
9	1476145	Fitting.....	1
10	1545857	Pressure Switch.....	1
11	1502543	Nut (Flange).....	1
12	1527880	Capscrew.....	1
13	18535	Capscrew.....	3
14	15156	Lockwasher.....	9
15	1551680	Bracket.....	1
16	16663	Capscrew.....	1
17	15175	Washer	1
18	2067573	Wire Harness (Oil Pressure Ground).....	1
19	16167	Fitting.....	1
20	69392	Fitting.....	1
21	1514215	Oil Pressure Sender	1
22	168718	Clamp	3
23	1546285	Elbow	1
24	1546283	Elbow	1
25	128408	Clamp	1
26	113341	Clamp	1

EXHAUST MANIFOLD (Figure 2-23) GASOLINE AND LPG 4.3L EPA COMPLIANT

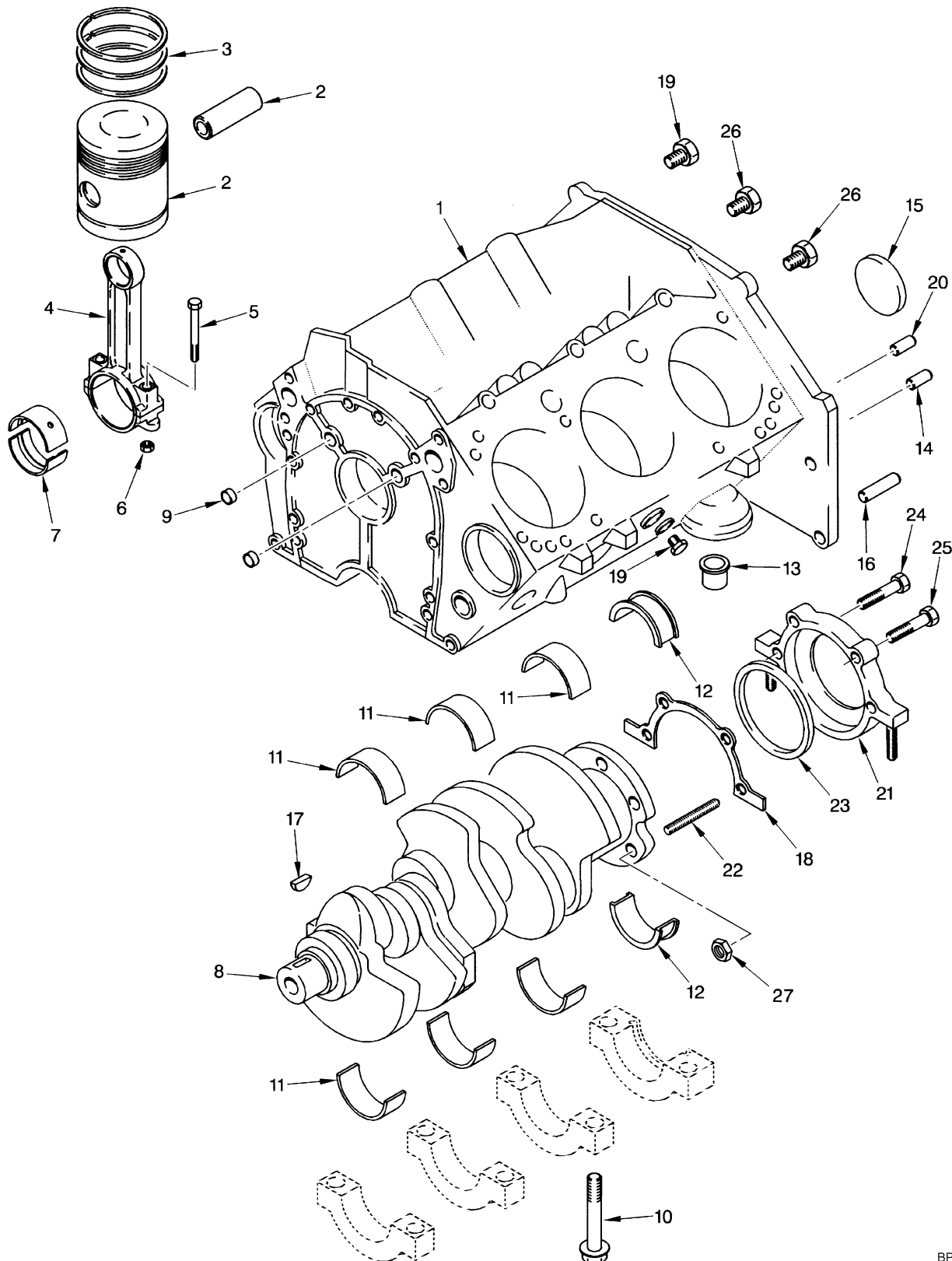


BP090136

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

[illegible]

CYLINDER BLOCK (Figure 2-24) GASOLINE AND LPG 4.3L EPA COMPLIANT

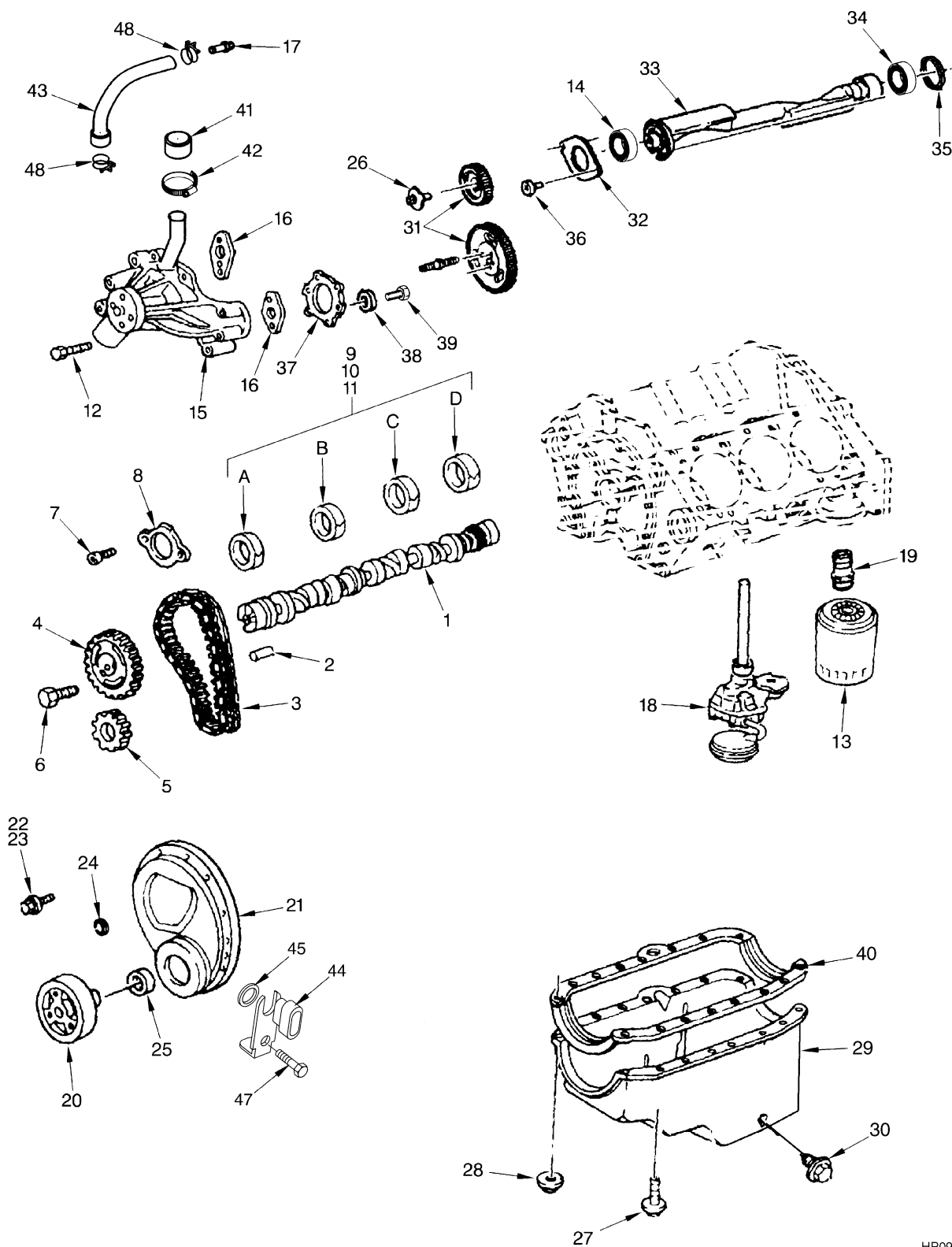


BP090113

**CYLINDER BLOCK
GASOLINE AND LPG
4.3L EPA COMPLIANT**

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

CAMSHAFT AND OIL PAN (Figure 2-25) GASOLINE AND LPG 4.3L EPA COMPLIANT



HP090252

CAMSHAFT AND OIL PAN GASOLINE AND LPG 4.3L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
	1543776	Engine Assembly (Gasoline)	1
	1543978	Engine Assembly (LPG)	1
1	1456111	Camshaft	1
2	1374297	Pin	1
3	1471556	Chain Kit	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	Nipple	1
18	1386176	Oil Pump (See Figure 2-28)	1
19	375587	Fitting	1
20	1514969	Damper	1
21	1514268	Cover	1
22	1386179	Bolt	4
23	1377103	Bolt	2
24	1389092	Grommet	6
25	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	Seal	1
31	1374315	Gear Kit	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
39	1374108	Bolt	10
40	1386184	Gasket	1
41	1383263	Cap	1
42	130845	Clamp	1
43	1401163	Hose	1

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

ITEM	PART NO.	DESCRIPTION	QTY
44	1514963	Sensor	1
45	1514964	O-Ring	1
46	1514961	Insert (Not Illustrated)	1
47	1514965	Bolt	1
48	1471560	Clamp	2
	1460768	Bearing Kit (Includes Items 9-11)	1
	1454974	Bearing Kit (Includes Items 9-11)	1

FOOTNOTES:

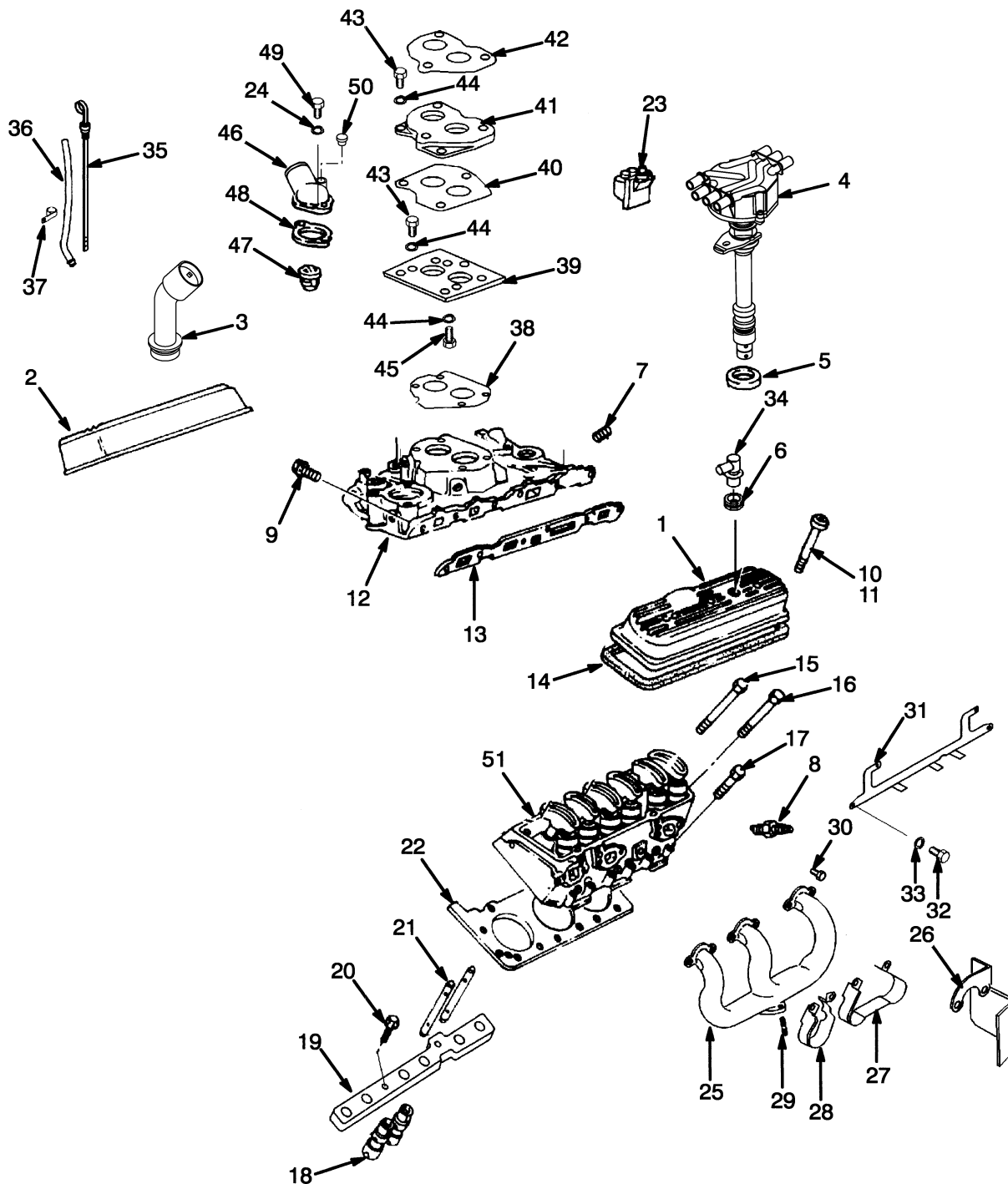
- a** GM Identification Number on Left Side of Rear Transmission Housing Starts with "A" Followed by 8 Digits
b GM Identification Number on Left Side of Rear Transmission Housing is 8 Digits

[illegible]

VALVE COVER AND INLET MANIFOLD (Figure 2-26)

GASOLINE AND LPG

4.3L EPA COMPLIANT



HP091048

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

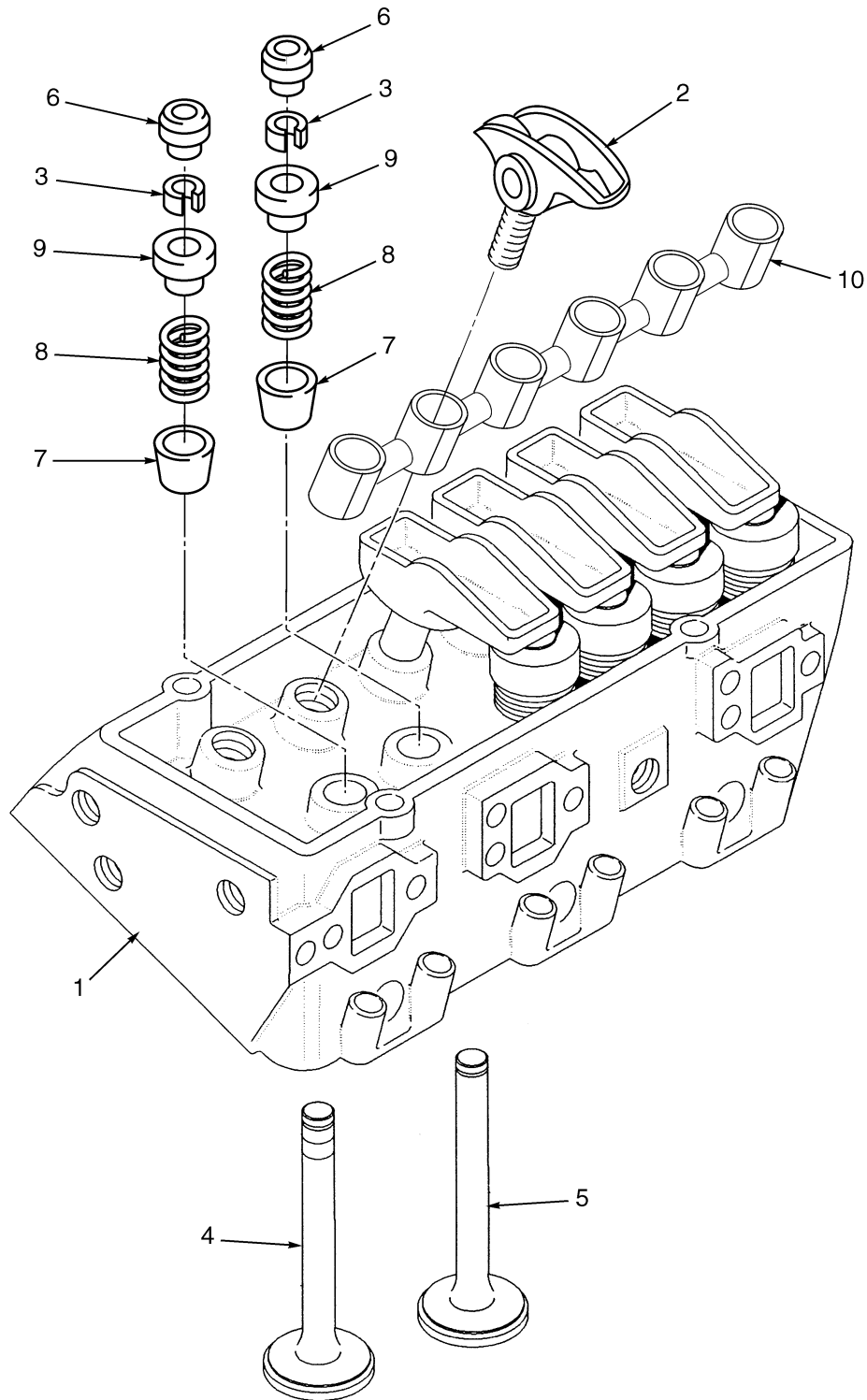
ITEM	PART NO.	DESCRIPTION	QTY
	1543776	Engine Assembly (Gasoline)	1
	1543978	Engine Assembly (LPG)	1
1	1386185	Valve Cover (RH)	1
2	1389102	Valve Cover (LH)	1
3	1552141	Oil Filler	1
4	1559695	Distributor	1
5	1334423	Gasket	1
6	1374288	Grommet	3
7	1331341	Plug (LPG)	1
8	1389133	Spark Plug	6
8	1452376	Spark Plug (Optional)	6
9	1389093	Bolt (LPG)	8
10	1383904	Grommet	6
11	1374289	Bolt	6
12	1386186	Manifold (Intake) (LPG)	1
12	.....	Manifold (Intake) (Gasoline) (☞ Figure 2-29)	1
13	1386187	Gasket (LPG)	1
14	1374293	Gasket	2
15	1377792	Bolt	10
16	1377793	Bolt	4
17	1377794	Bolt	10
18	1471559	Lifter Assembly	12
19	1389050	Guide	2
20	1389051	Bolt	2
21	1386189	Push Rod	12
22	1460333	Gasket Kit (Cylinder Head)	1
23	1386191	Ignition Coil	1
24	15156	Lockwasher	12
25	1502741	Manifold	1
26	1529010	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	3
33	15154	Lockwasher	4
34	379407	Fitting	1
35	1510649	Dipstick	1
36	1514915	Tube	1
37	133696	Clamp	1
38	1383237	Gasket	1
39	1383211	Plate	1
40	1383213	Gasket	1
41	1383239	Spacer	1
42	1333806	Gasket	1
43	16836	Capscrew	7
44	15155	Lockwasher	10
45	16394	Capscrew	1
46	1317468	Outlet	1

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

ITEM	PART NO.	DESCRIPTION	QTY
47	1450696	Thermostat	1
48	1330725	Gasket	1
49	16598	Capscrew	2
50	15962	Fitting.....	3

[illegible]

CYLINDER HEAD (Figure 2-27) GASOLINE AND LPG 4.3L EPA COMPLIANT

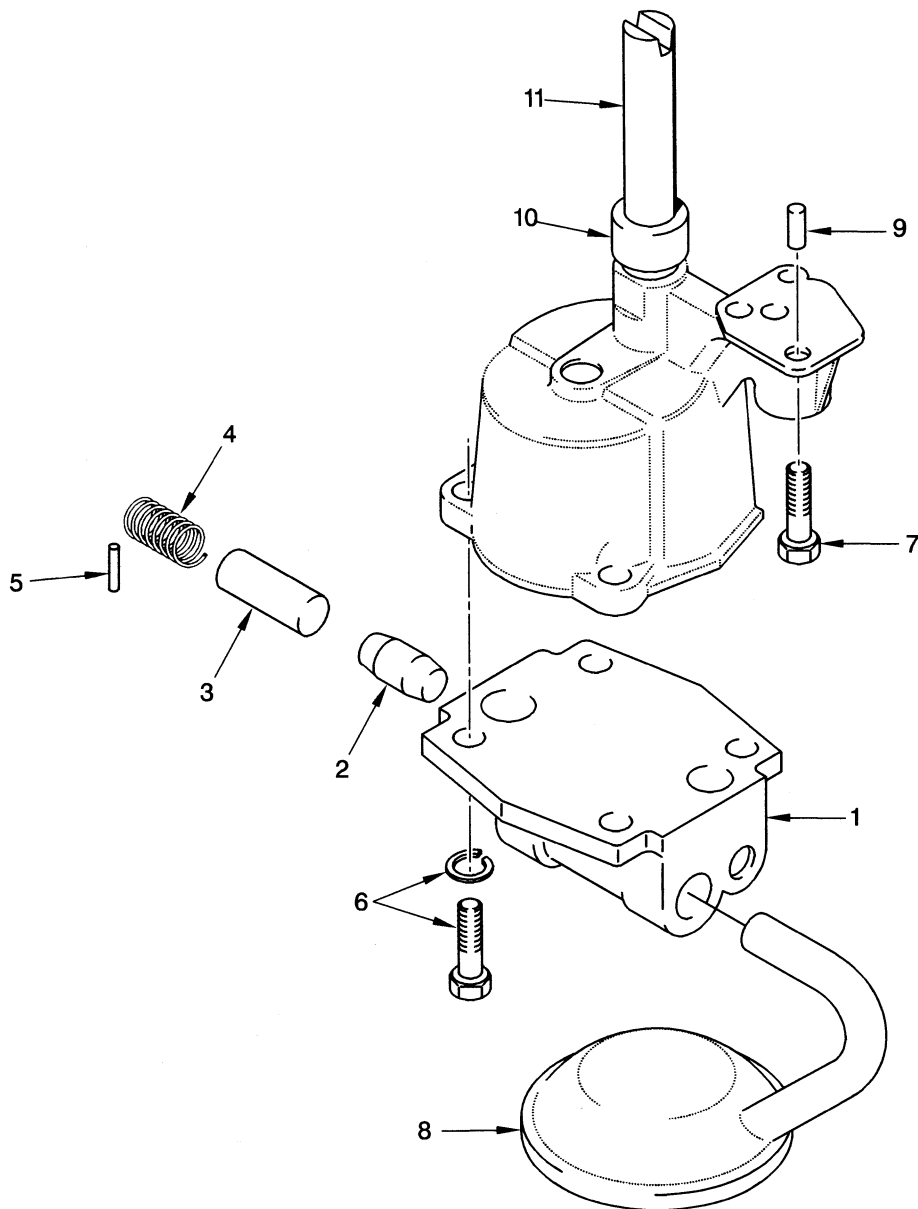


HP090254

CYLINDER HEAD GASOLINE AND LPG 4.3L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
	1543776	Engine Assembly (Gasoline)	1
	1543978	Engine Assembly (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	Key (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	12
8	1386198	Spring	12
9	1460384	Seal	12
10	1489643	Pivot Support (Rocker Arm)	2

OIL PUMP (Figure 2-28) GASOLINE AND LPG 4.3L EPA COMPLIANT

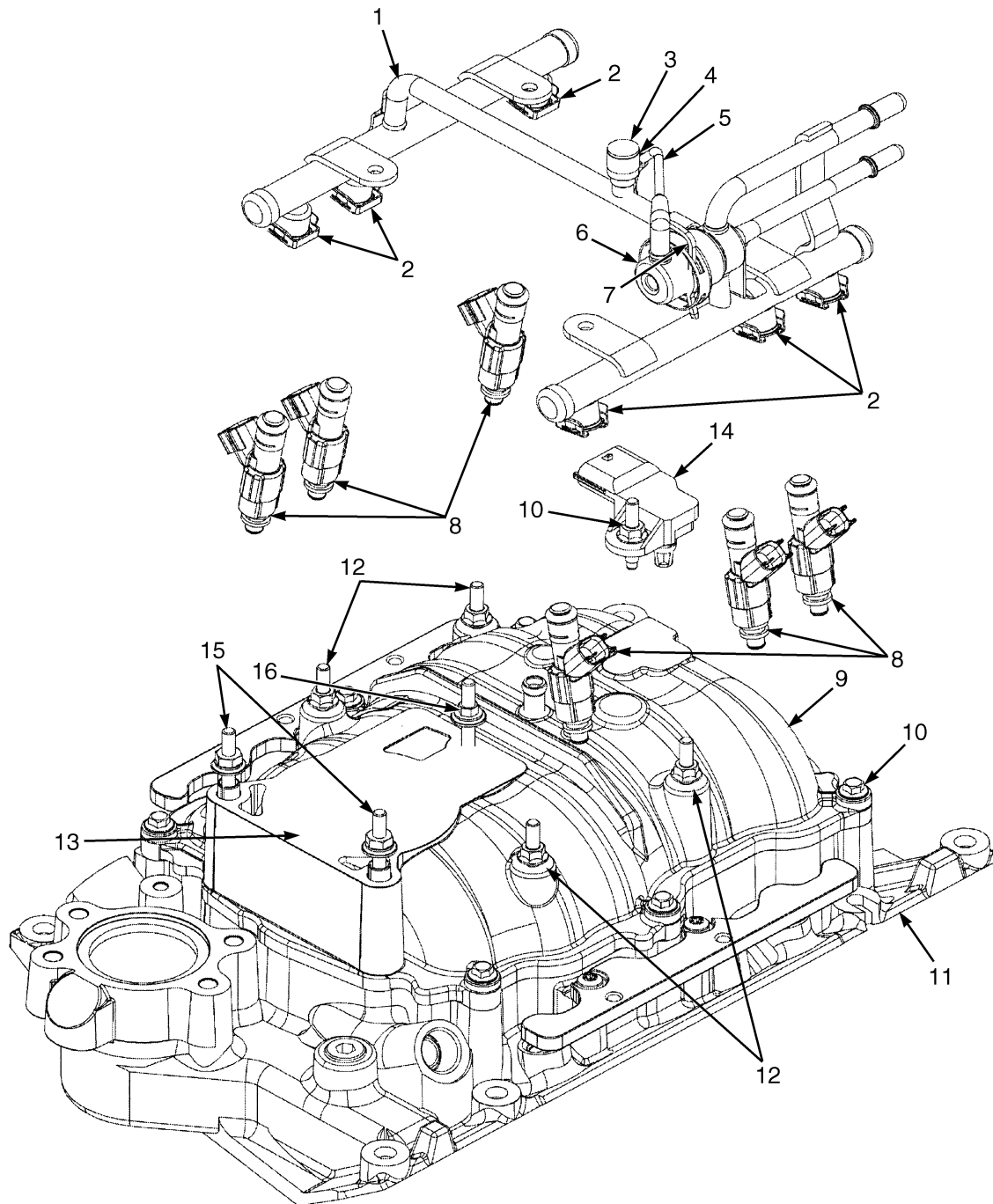


HP090044

**OIL PUMP
GASOLINE AND LPG
4.3L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
	1543776	Engine Assembly (Gasoline)	1
	1543978	Engine Assembly (LPG)	1
	1386176	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	Screw and Washer.....	2
7	388306	Bolt	1
8	1386177	Screen	1
9	1450941	Pin	2
10	263795	Retainer.....	1
11	263794	Shaft.....	1

INTAKE MANIFOLD AND FUEL RAIL (Figure 2-29) GASOLINE 4.3 L EPA COMPLIANT



BP090124

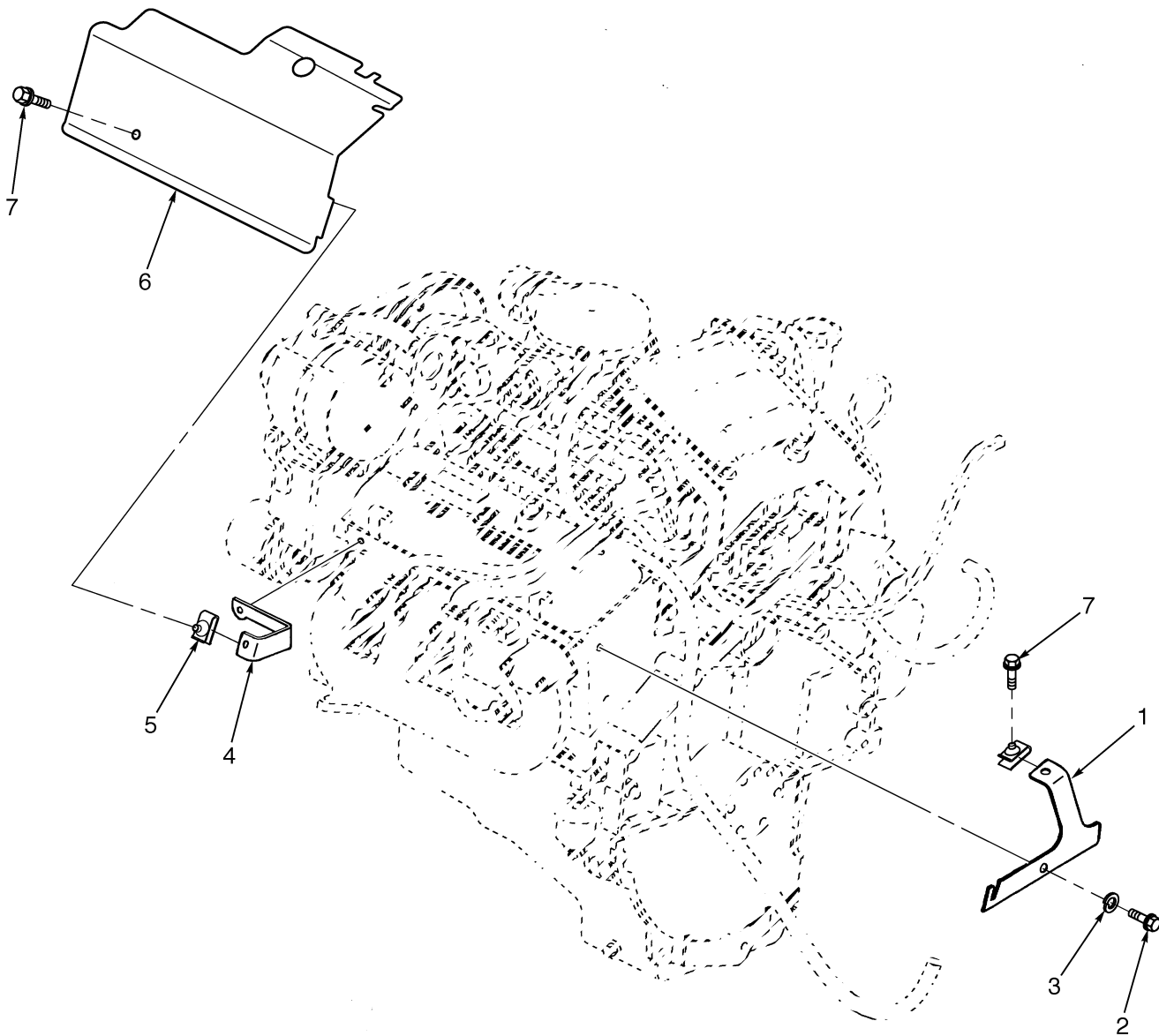
INTAKE MANIFOLD AND FUEL RAIL

GASOLINE

4.3 L EPA COMPLIANT

ITEM	PART NO.	DESCRIPTION	QTY
	1543776	Engine Assembly (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 (TMAP)	1
15	1559568	Bolt	2
16	1559569	Bolt	1

DRIP SHIELD (Figure 2-30) GASOLINE AND LPG 4.3L EPA COMPLIANT



BP090095

**DRIP SHIELD
GASOLINE AND LPG
4.3L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
1	1544555	Bracket (Shield)	1
2	220589	Screw.....	1
3	15156	Lockwasher.....	1
4	1551410	Bracket (Shield)	1
5	325182	Nut.....	2
6	1401178	Drip Shield.....	1
7	1534417	Capscrew.....	2

[illegible]

3

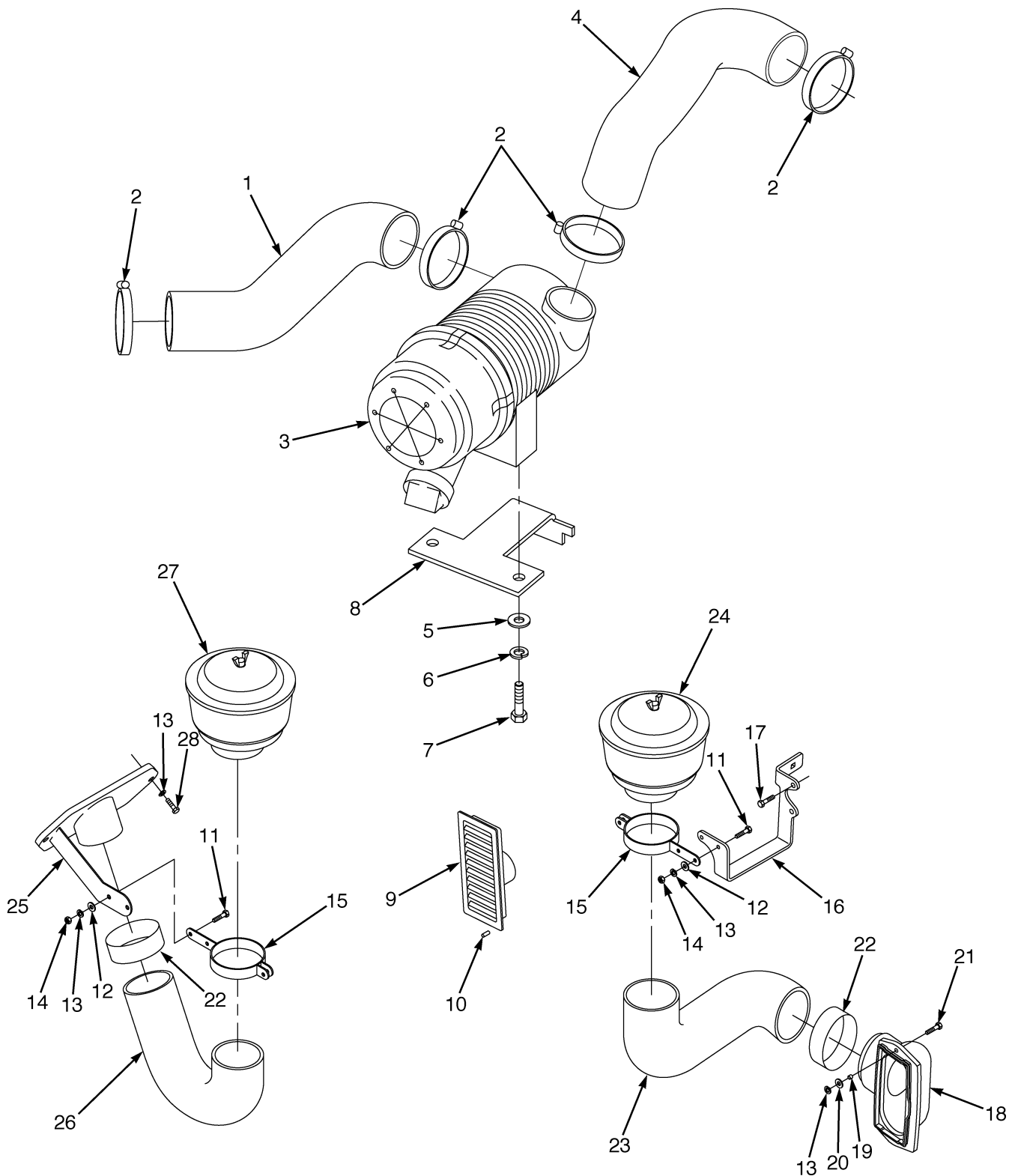
FUEL SYSTEM

SECTION 3

FUEL SYSTEM

DESCRIPTION	PAGE
AIR FILTER	
DIESEL TIER II	3-4
GAS AND LPG	3-18
AIR INTAKE AND FILTER SYSTEM	
DIESEL TIER II	3-2
GAS AND LPG	3-16
ENGINE FUEL SYSTEM	
4.3 L EPA COMPLIANT	
LPG	3-22
FUEL FILTER	
DIESEL TIER II	3-14
FUEL FILTER AND SENDER	
DIESEL TIER II	3-12
FUEL PUMP AND WATER SEPERATOR	
DIESEL TIER II	3-8
FUEL SUPPLY SYSTEM	
DIESEL TIER II	3-6
GASOLINE	3-28
LPG	3-20
LPG REGULATOR	
4.3 L EPA COMPLIANT	3-26
LPG TANK BRACKET	
FIXED	3-32
SWING OUT	3-34
SWING OUT/DROP DOWN	3-36
MONOTROL PEDAL	3-48
MONOTROL PEDAL AND BRACKET ASSEMBLY	3-46
THROTTLE ARM ASSEMBLY	3-42
THROTTLE BODY AND LPG MIXER	
4.3 L EPA COMPLIANT	3-24
THROTTLE BODY ASSEMBLY	
4.3 L EPA COMPLIANT	
GASOLINE	3-30
THROTTLE LINKAGE	
DIESEL TIER II	3-44
GASOLINE AND LPG	
FORWARD AND REVERSE LEVER	3-38
MONOTROL PEDAL	3-40
WATER SEPARATOR	
DIESEL TIER II	3-10

AIR INTAKE AND FILTER SYSTEM (Figure 3-1) DIESEL TIER II



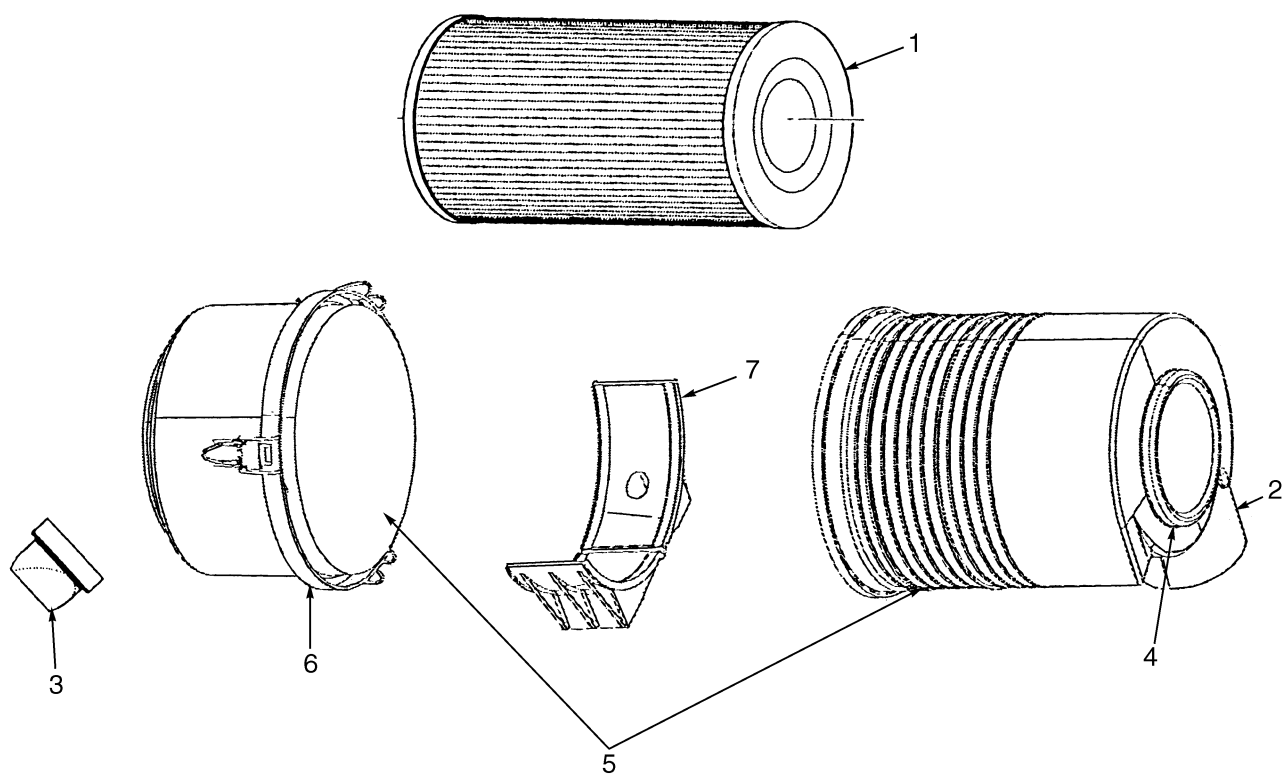
BP130061

**AIR INTAKE AND FILTER SYSTEM
DIESEL TIER II****KEY:****A: Standard****B: Heavy Duty**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2060461	Hose	1	1
2	115696	Clamp	4	4
3	2035621	Air Filter (☞ Figure 3-2)	1	1
3	1462439	Filter Element	1	1
3	1462441	Cover	1	1
3	374923	Valve	1	1
3	1462442	Plug	1	1
4	1390110	Hose	1	1
5	320157	Washer	2	2
6	292681	Lockwasher	2	2
7	136681	Capscrew	2	2
8	1543536	Bracket (Air Filter Mount)	1	1
9	2036475	Grill	1	..
10	1509037	Plug	2	..
11	302263	Screw	..	3
11	a 302263	Screw	..	3
12	320156	Washer	..	3
12	a 320156	Washer	..	3
13	292680	Lockwasher	..	5
13	a 292680	Lockwasher	..	5
14	136687	Nut	..	3
14	a 136687	Nut	..	3
15	1397989	Band	..	1
15	a 1397989	Band	..	2
16	1397988	Bracket	..	1
17	316678	Screw	..	2
18	1497559	Pre-Cleaner Port	..	1
19	1498097	Spacer	..	2
20	197068	Washer	..	2
21	287816	Capscrew	..	2
22	1398002	Clamp	..	1
22	a 1398002	Clamp	..	1
23	1397987	Hose	..	1
24	291974	Pre-Cleaner	..	1
25	a 1392814	Bracket	..	1
26	a 1392799	Hose	..	2
27	a 1301167	Pre-Cleaner	..	1
28	a 292501	Capscrew	..	2

FOOTNOTES:**a** With CAB

AIR FILTER (Figure 3-2) DIESEL TIER II

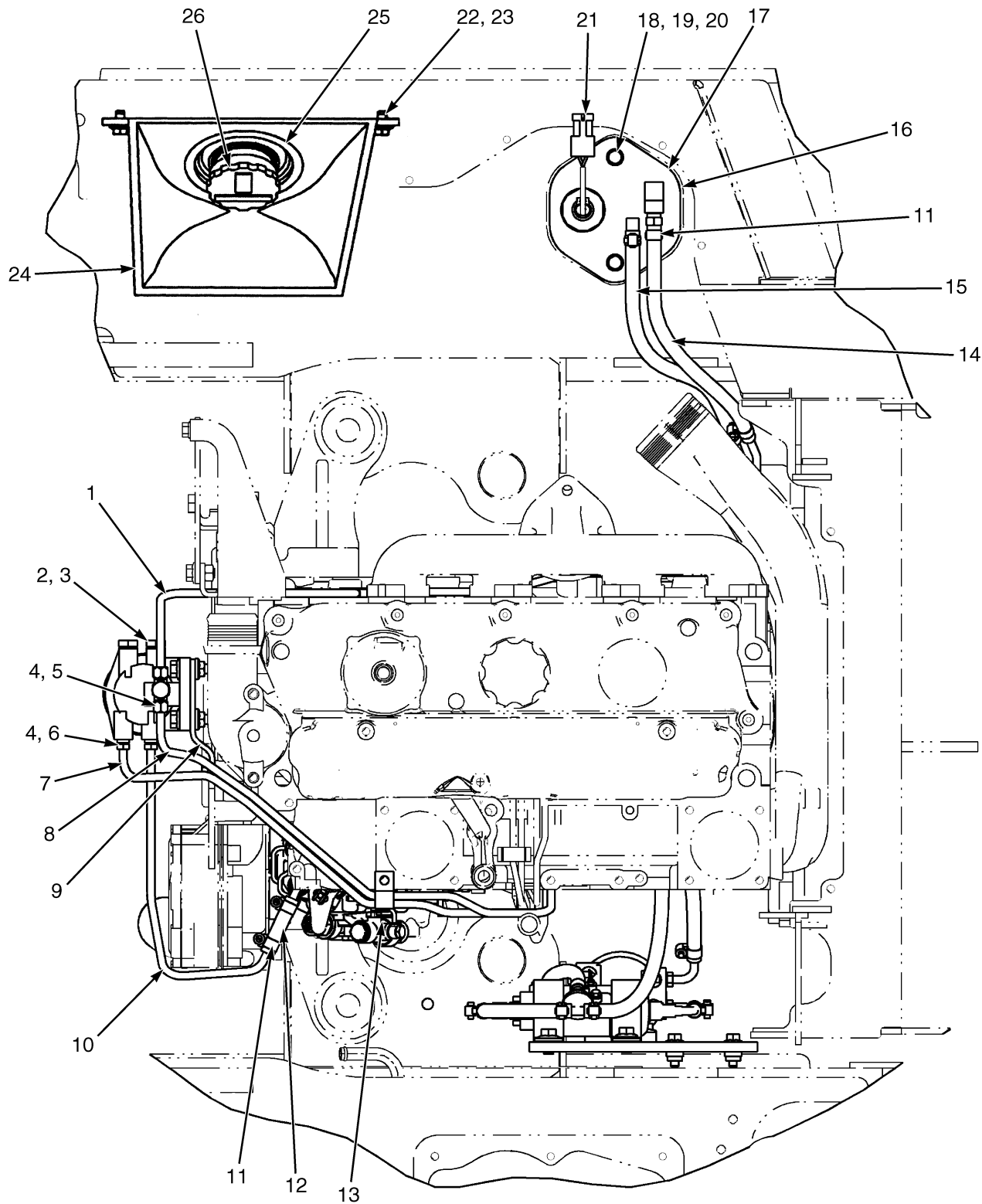


BP130038

**AIR FILTER
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	2035621	Air Filter	1
1	1462439	Filter Element	1
2	1462441	Cover	1
3	374923	Valve	1
4	1462442	Plug	1
5		Body	1
6		Clamp	1
7		Bracket	1

FUEL SUPPLY SYSTEM (Figure 3-3) DIESEL TIER II

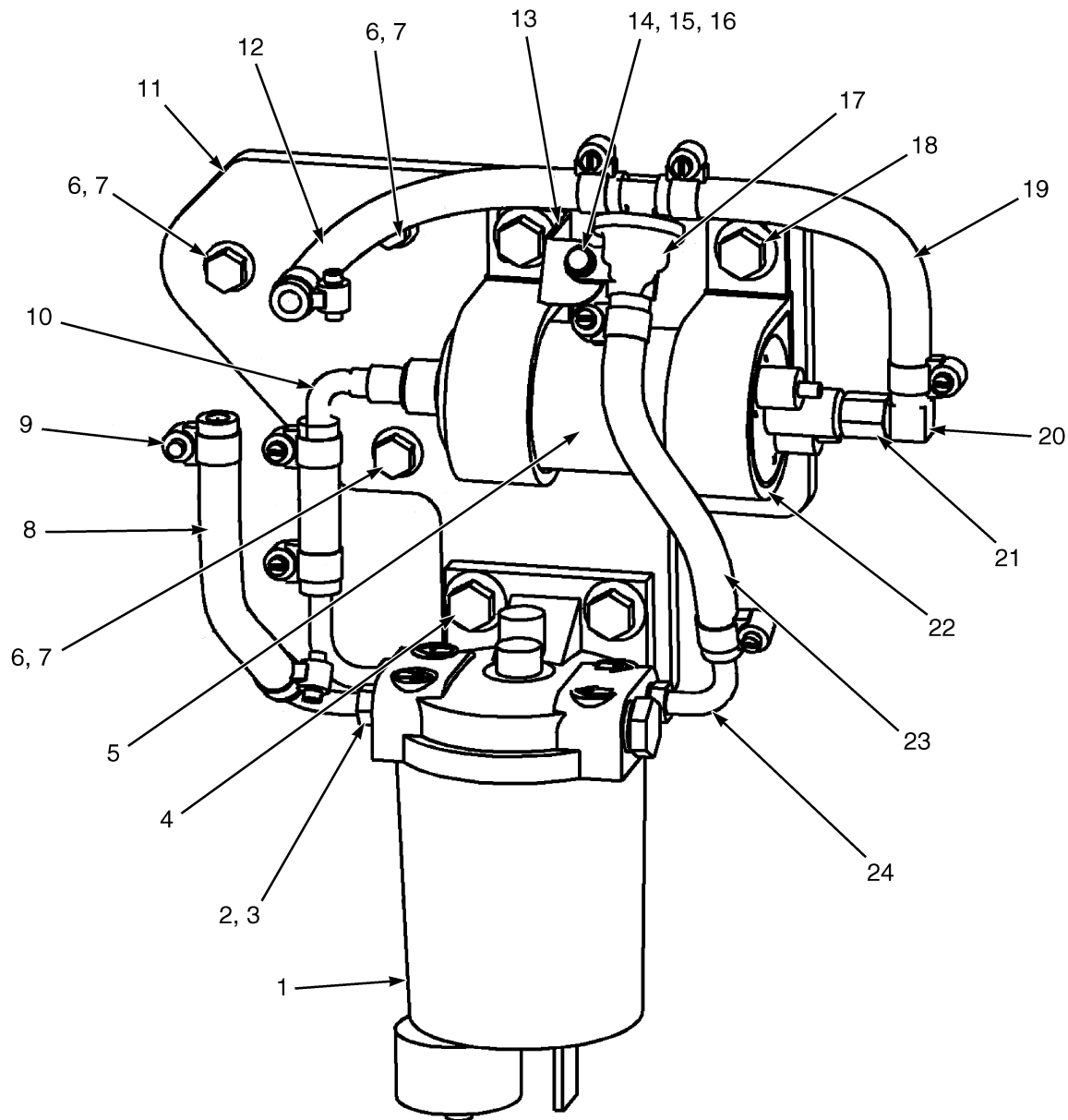


BP130078

**FUEL SUPPLY SYSTEM
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1551403	Tube	1
2	1559422	Washer	2
3	173941	Plug	2
4	16177	Fitting.....	4
5	14773	Fitting.....	2
6	16100	Fitting.....	2
7	1551404	Tube	1
8	1551402	Tube	1
9	1557629	Bracket.....	1
10	1551401	Tube	1
11	168718	Clamp	6
12	878989	Hose	1
13	1399381	Clamp	1
14	1458456	Hose	1
15	193656	Hose	1
16	1343449	Seal	1
17	1559058	Fuel Sender Assembly (☞ Figure 3-6)	1
18	353000	O-Ring.....	2
19	320157	Washer	2
20	1339779	Screw	2
21	1371166	Wire Harness	1
22	320158	Washer	2
23	316678	Screw.....	2
24	1376746	Shield.....	1
25	1339720	Grommet.....	1
26	298832	Cap	1

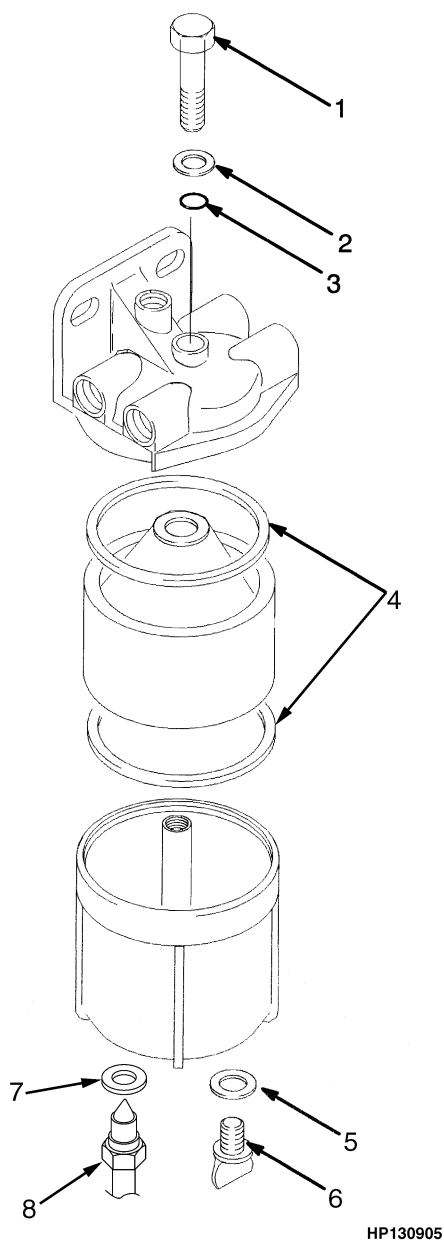
FUEL PUMP AND WATER SEPERATOR (Figure 3-4) DIESEL TIER II



BP130079

**FUEL PUMP AND WATER SEPERATOR
DIESEL TIER II**

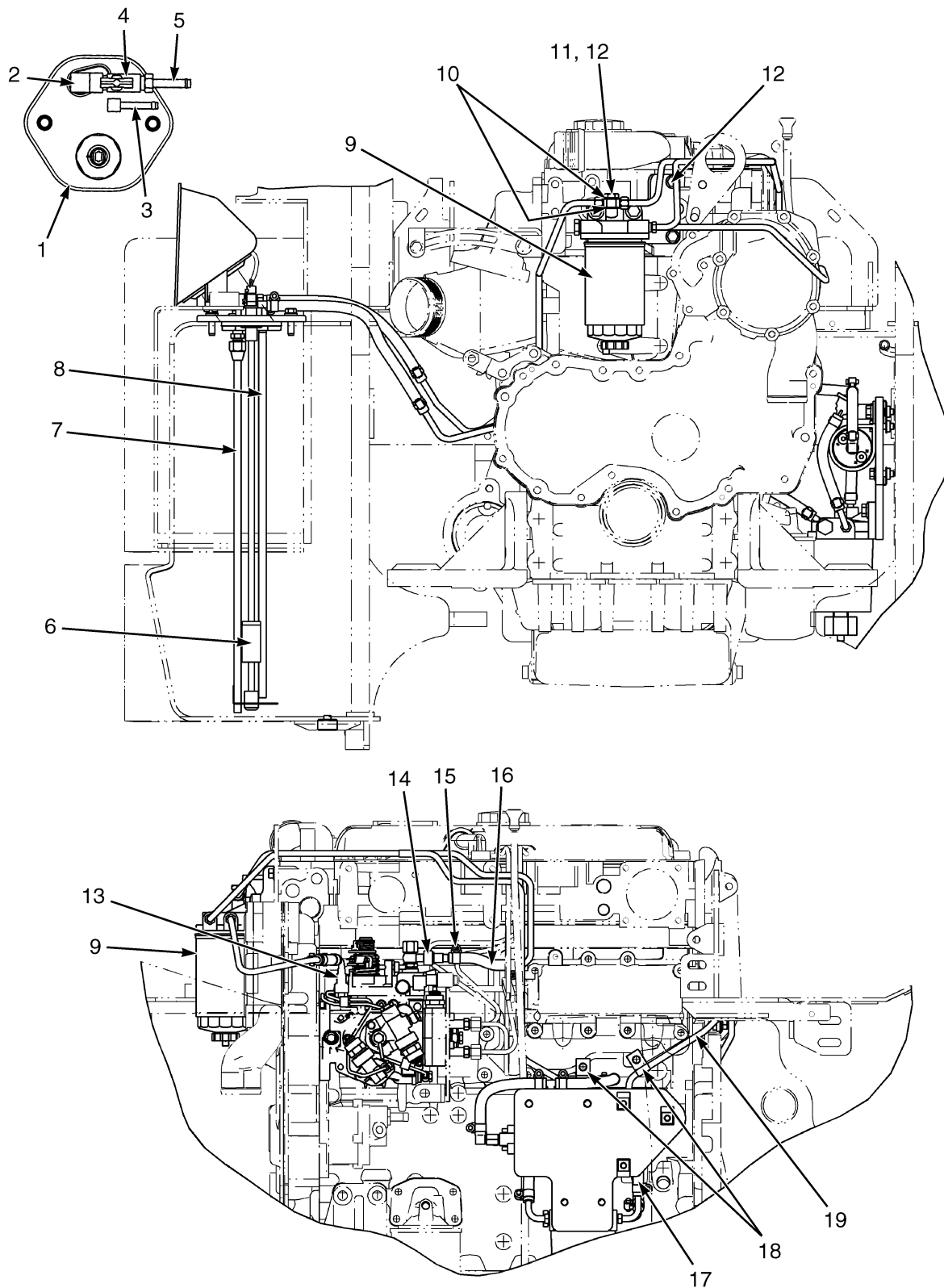
ITEM	PART NO.	DESCRIPTION	QTY
1	1396256	Water Separator (☞ Figure 3-5)	1
2	16177	Fitting.....	3
3	16100	Fitting.....	3
4	1527883	Capscrew.....	2
5	1551260	Fuel Pump	1
6	1350282	Nut	3
7	1510113	Capscrew.....	3
8	1389365	Hose	1
9	168718	Clamp	10
10	1543933	Fitting.....	1
11	1551405	Bracket.....	1
12	225465	Hose	1
13	1554719	Bracket.....	1
14	320155	Washer	1
15	302246	Screw.....	1
16	302398	Locknut	1
17	1558148	Regulator (Fuel Pressure)	1
18	1528778	Capscrew.....	2
19	274334	Hose	1
20	222480	Fitting.....	1
21	1475493	Fitting (Adapter)	1
22	176451	Clamp	2
23	274334	Hose	2
24	1486842	Tube	3

**WATER SEPARATOR (Figure 3-5)
DIESEL TIER II**

**WATER SEPARATOR
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1396256	Water Separator	1
1	1464543	Bolt	1
2	1464541	Washer	1
3	1464540	Sealing Ring	1
4	256160	Gasket	2
5	1308006	Washer	1
6	1464544	Drain Plug	1
7	1464545	Washer	1
8	1464546	Sensor (Water)	1

FUEL FILTER AND SENDER (Figure 3-6) DIESEL TIER II

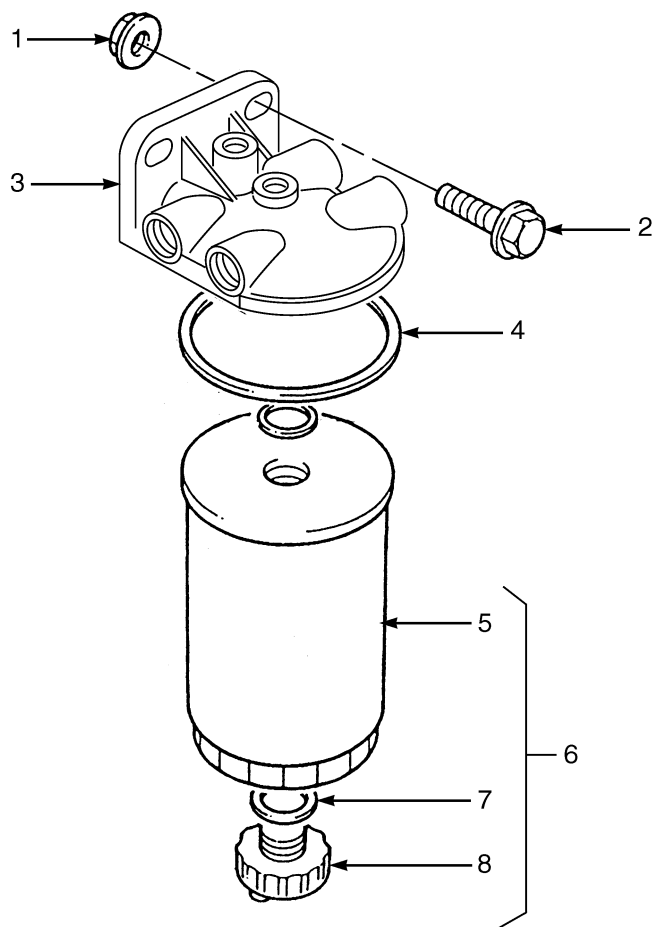


BP130080

**FUEL FILTER AND SENDER
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1559058	Fuel Sender Assembly.....	1
1	1559061	Cover.....	1
2	17314	Fitting.....	1
3	17343	Fitting.....	1
4	16190	Valve.....	1
5	1502038	Fitting.....	1
6	1371111	Sender.....	1
7	1371137	Tube.....	1
8	1371141	Tube.....	1
9	1306345	Fuel Filter Assembly (☞ Figure 3-7)	1
10	1556819	Washer	2
11	1556726	Fitting (Banjo)	1
12	1527880	Capscrew.....	2
13	1543933	Fitting.....	2
14	1544024	Fitting.....	1
15	168718	Clamp	2
16	1551452	Hose	1
17	878989	Hose	1
18	118748	Clamp	2
19	1552673	Tube.....	1

FUEL FILTER (Figure 3-7) DIESEL TIER II

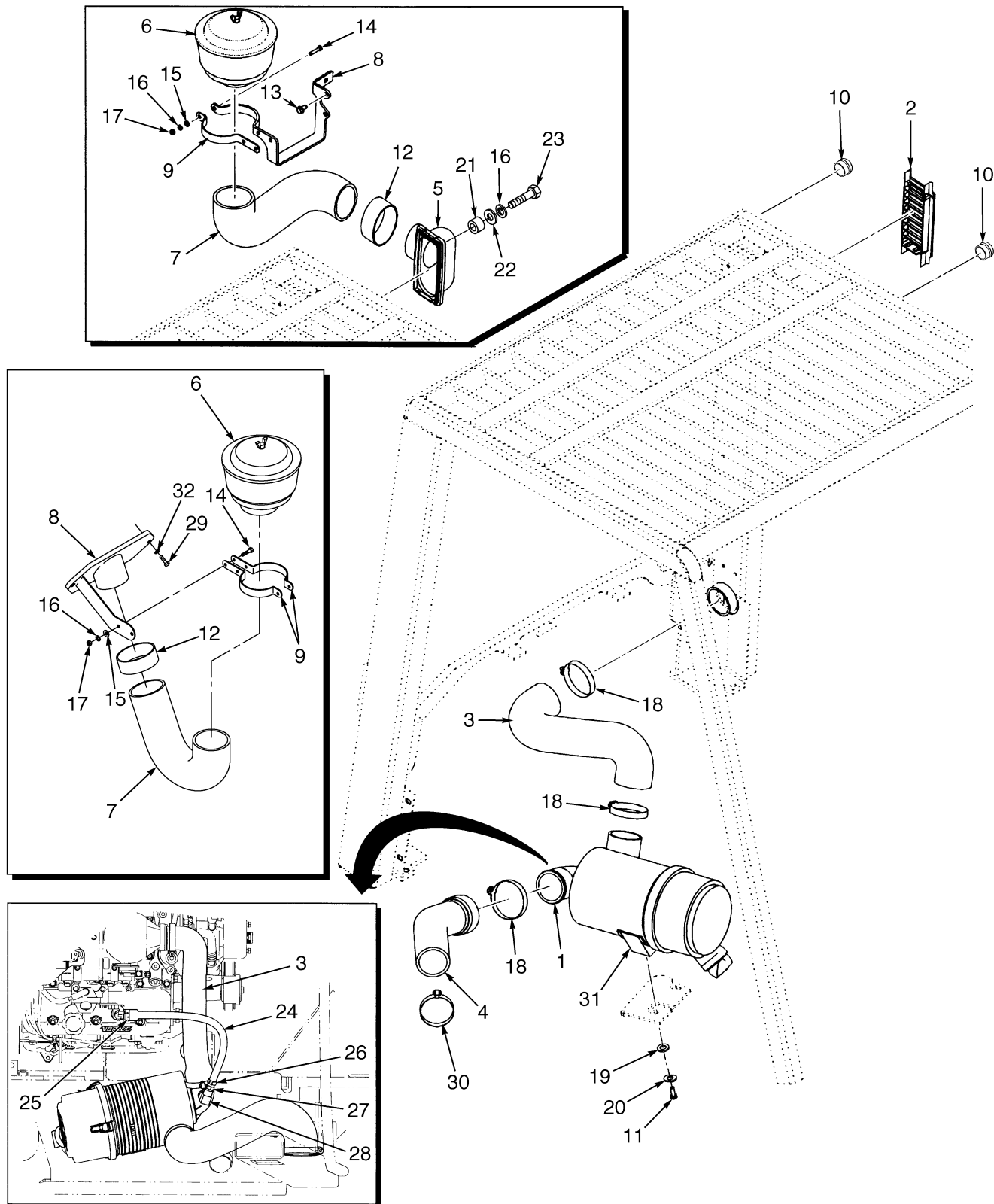


BP130081

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

[illegible]

AIR INTAKE AND FILTER SYSTEM (Figure 3-8) GAS AND LPG



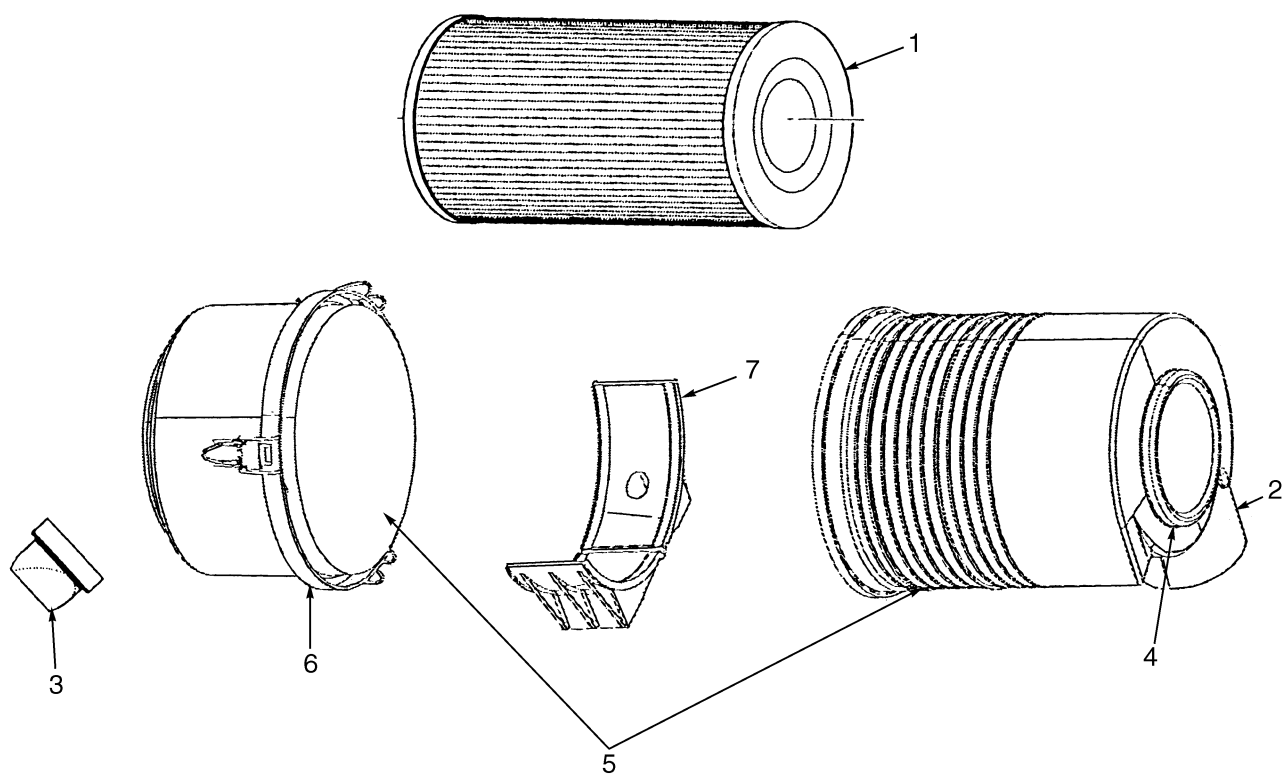
BP130062

**AIR INTAKE AND FILTER SYSTEM
GAS AND LPG****KEY:****A: Air Filter (Standard)****B: Air Filter (Heavy Duty)**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2062384	Air Filter (☞ Figure 3-9)	1	1
2	2036475	Grill	1	..
3	1390110	Hose (Outlet)	1	1
4	2061653	Hose (Intake LPG)	1	1
4	2061656	Hose (Intake Gasoline)	1	1
5	1497559	Pre-Cleaner Port.....	..	1
6	291974	Pre-Cleaner	..	1
6	1374205	Cover	..	1
6	1374206	Bowl.....	..	1
6	1374207	Sleeve.....	..	1
6	115696	Clamp	..	1
7	a 1392799	Hose	..	1
7	1397987	Hose (Pre-Cleaner)	..	1
8	a 1392814	Bracket.....	..	1
8	1397988	Bracket.....	..	1
9	a 1397989	Band	..	2
9	1397989	Band	..	1
10	1509037	Plug	2	..
11	136681	Capscrew.....	2	2
12	1398002	Clamp	..	1
13	316678	Screw.....	..	2
14	302263	Screw.....	..	3
15	320156	Washer	..	3
16	292680	Lockwasher.....	..	5
17	136687	Nut	..	3
18	115696	Clamp	3	3
19	320157	Washer	2	2
20	292681	Lockwasher.....	2	2
21	1498097	Spacer	..	2
22	197068	Washer	..	2
23	287816	Capscrew.....	..	2
24	2066940	Hose (Breather)	1	1
25	353199	Clamp	1	1
26	1452463	Clamp	1	1
27	102919	Fitting.....	1	1
28	16143	Fitting.....	1	1
29	a 292501	Capscrew.....	..	2
30	1394008	Clamp	1	1
31	1543536	Bracket.....	1	1
32	a 292680	Lockwasher.....	..	5

FOOTNOTES:**a** With CAB

AIR FILTER (Figure 3-9) GAS AND LPG

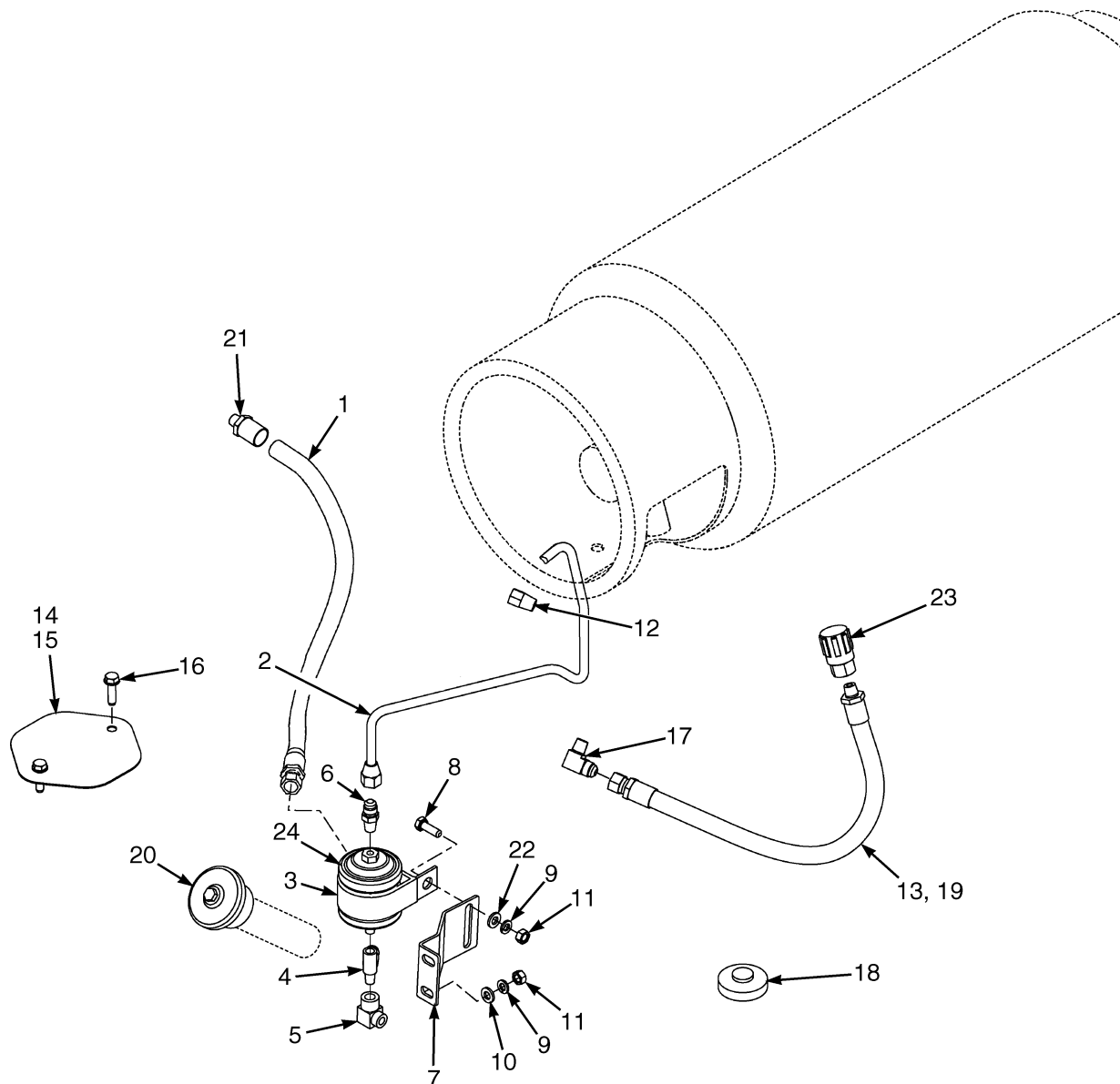


BP130038

**AIR FILTER
GAS AND LPG**

ITEM	PART NO.	DESCRIPTION	QTY
	2062384	Air Filter	1
1	1462439	Filter Element	1
2	1462441	Cover	1
3	374923	Valve	1
4	1462442	Plug	1
5		Body	1
6		Clamp	1
7		Bracket	1

FUEL SUPPLY SYSTEM (Figure 3-10) LPG

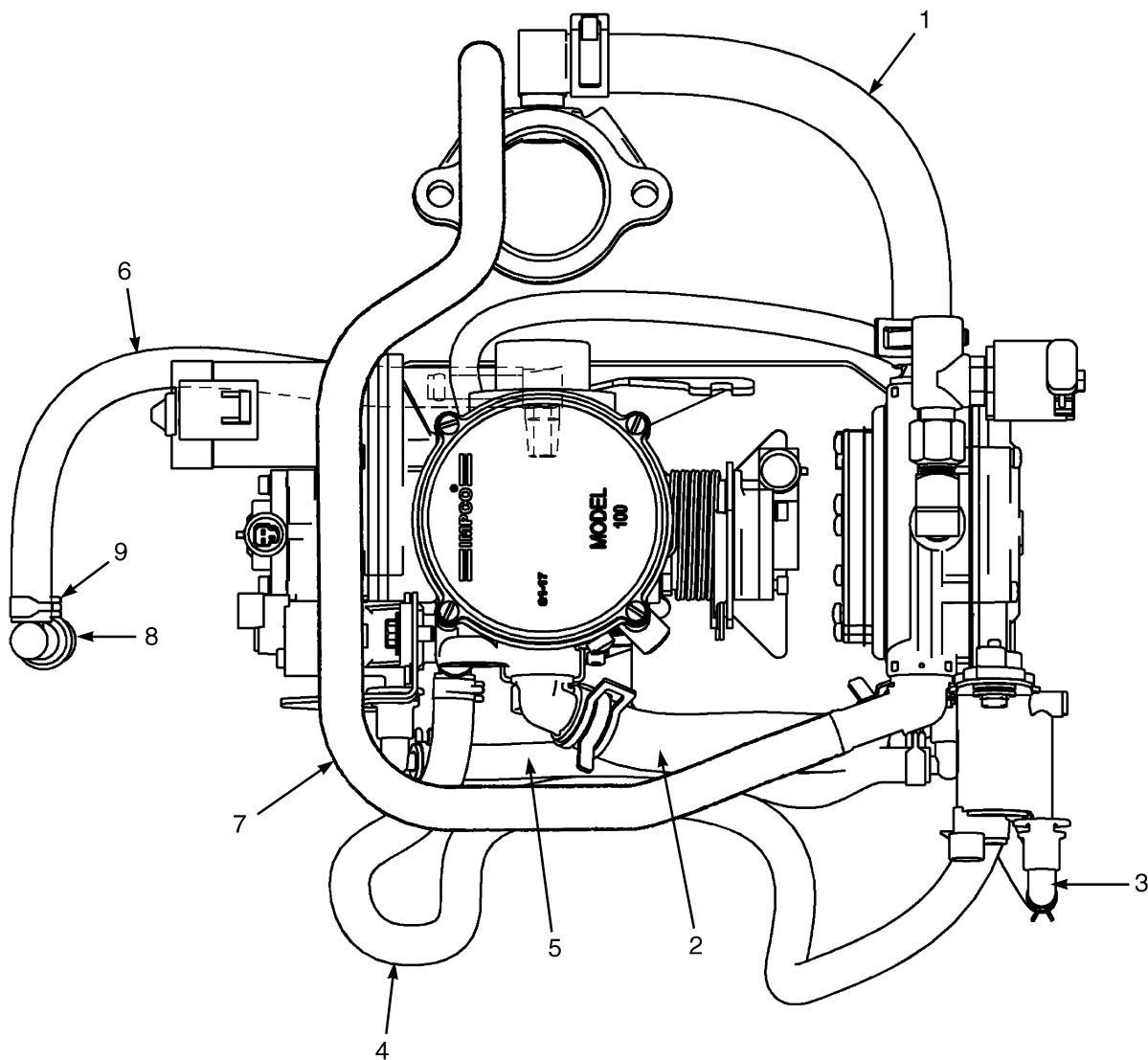


BP130072

**FUEL SUPPLY SYSTEM
LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1	336143	Hose	1
2	1544824	Tube	1
3	1384699	Clamp	1
4	14440	Fitting.....	1
5	17728	Fitting.....	1
6	16134	Fitting.....	1
7	1544793	Bracket (LPG Filter)	1
8	136749	Capscrew.....	1
9	292681	Lockwasher.....	3
10	320157	Washer	2
11	239503	Nut	3
12	101809	Relief Valve	1
13	1464890	Hose	1
14	1451568	Plate	1
15	1392738	Gasket	1
16	1339779	Screw.....	2
17	14358	Fitting.....	1
18	246869	Fitting.....	1
19	148271	Loom.....	1
20	1352123	Cap	1
21	16863	Fitting.....	1
22	320158	Washer	2
23	97999	Disconnect.....	1
24	1544792	Filter.....	1

ENGINE FUEL SYSTEM (Figure 3-11) 4.3 L EPA COMPLIANT LPG



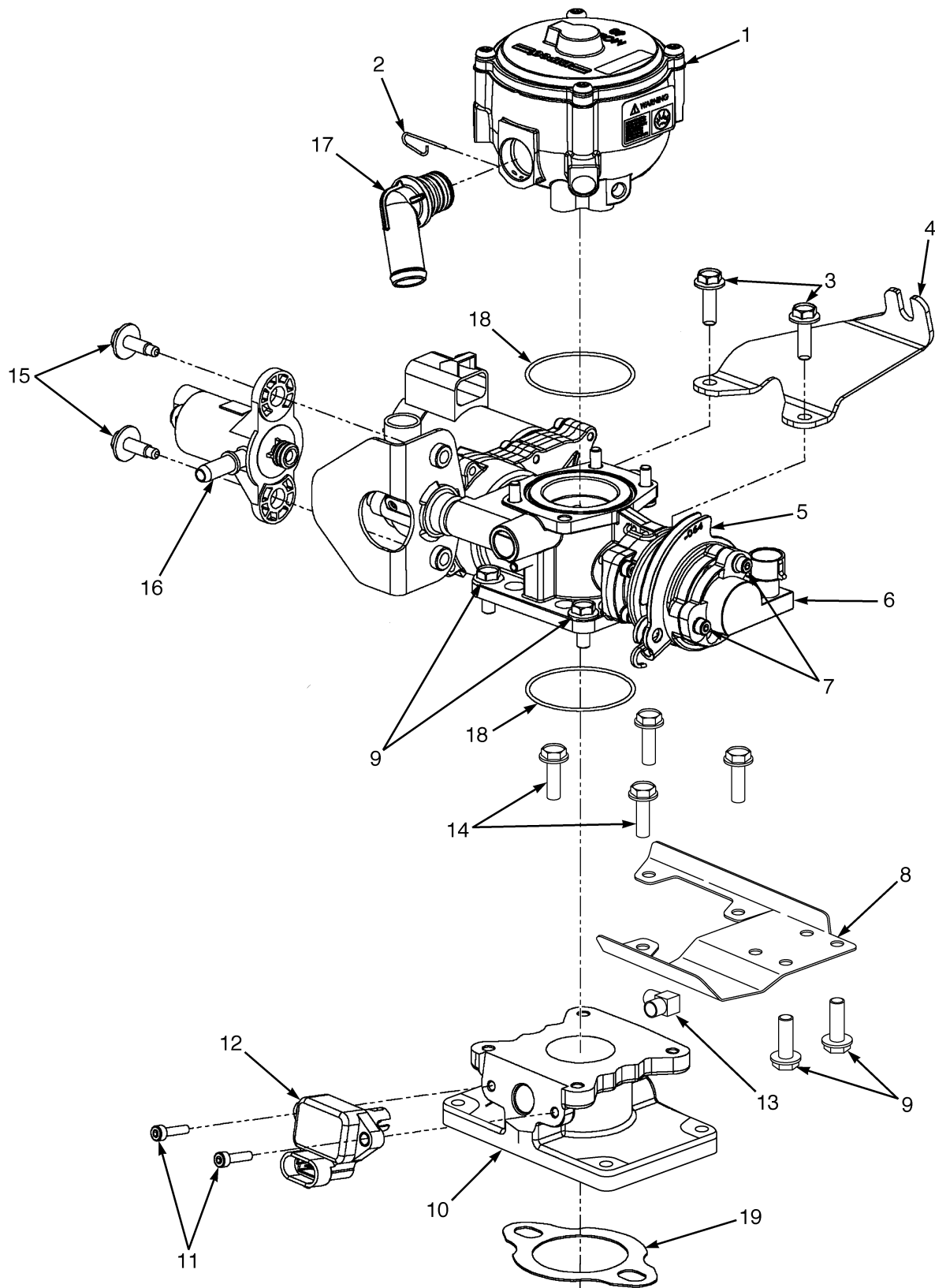
BP130068

**ENGINE FUEL SYSTEM
4.3 L EPA COMPLIANT
LPG**

ITEM	PART NO.	DESCRIPTION	QTY
1		Hose	1
2	1558202	Hose (Vapor).....	1
3	1558205	Hose (PTV)	1
4	1558543	Hose (Balance).....	1
5	1558206	Hose (Trim Valve)	1
6	1558195	Hose (PCV)	1
7	2066721	Hose (Coolant Return).....	1
8	1558196	PCV Valve.....	1
9	1558198	Clamp	1
10	1561870	Oxygen Sensor (Not Illustrated)	1

THROTTLE BODY AND LPG MIXER (Figure 3-12)

4.3 L EPA COMPLIANT

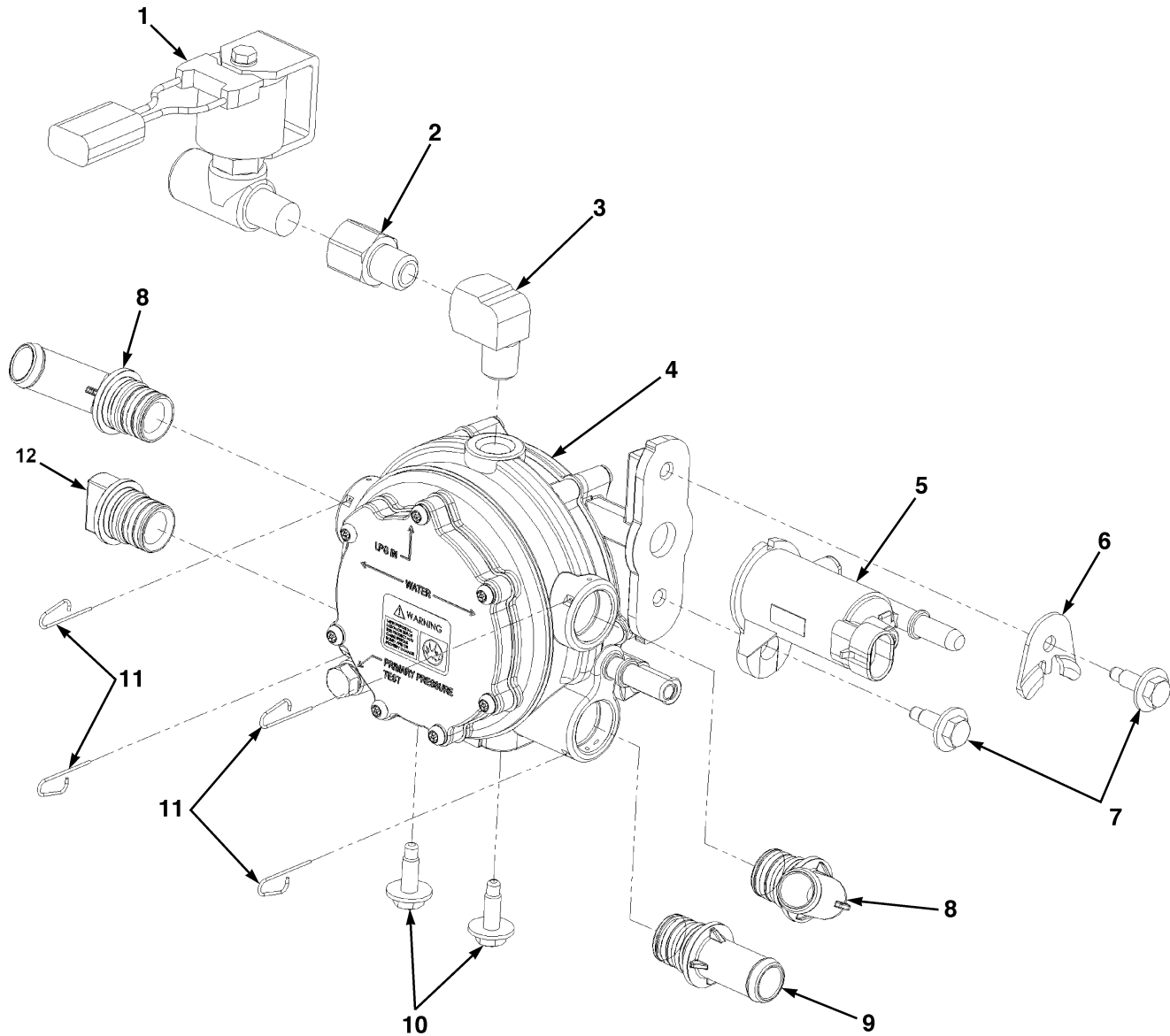


BP130060

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

ITEM	PART NO.	DESCRIPTION	QTY
1	1558160	Mixer	1
2	1558161	Pin	1
3	1558173	Bolt	4
4	1558163	Bracket.....	1
5	1558164	Throttle Body	1
6	1558165	Sensor	1
7	1558166	Screw.....	2
8	1558167	Bracket.....	1
9	1558168	Bolt	2
10	1558169	Adapter	1
11	1558170	Screw.....	2
12	1558171	Sensor	1
13	1361164	Fitting.....	1
14	1558172	Bolt	4
15	1558204	Bolt	1
16	1558175	Fuel Valve	1
17	1558176	Fitting.....	1
18	1558177	O-Ring	2
19	1558178	Gasket	1

LPG REGULATOR (Figure 3-13) 4.3 L EPA COMPLIANT

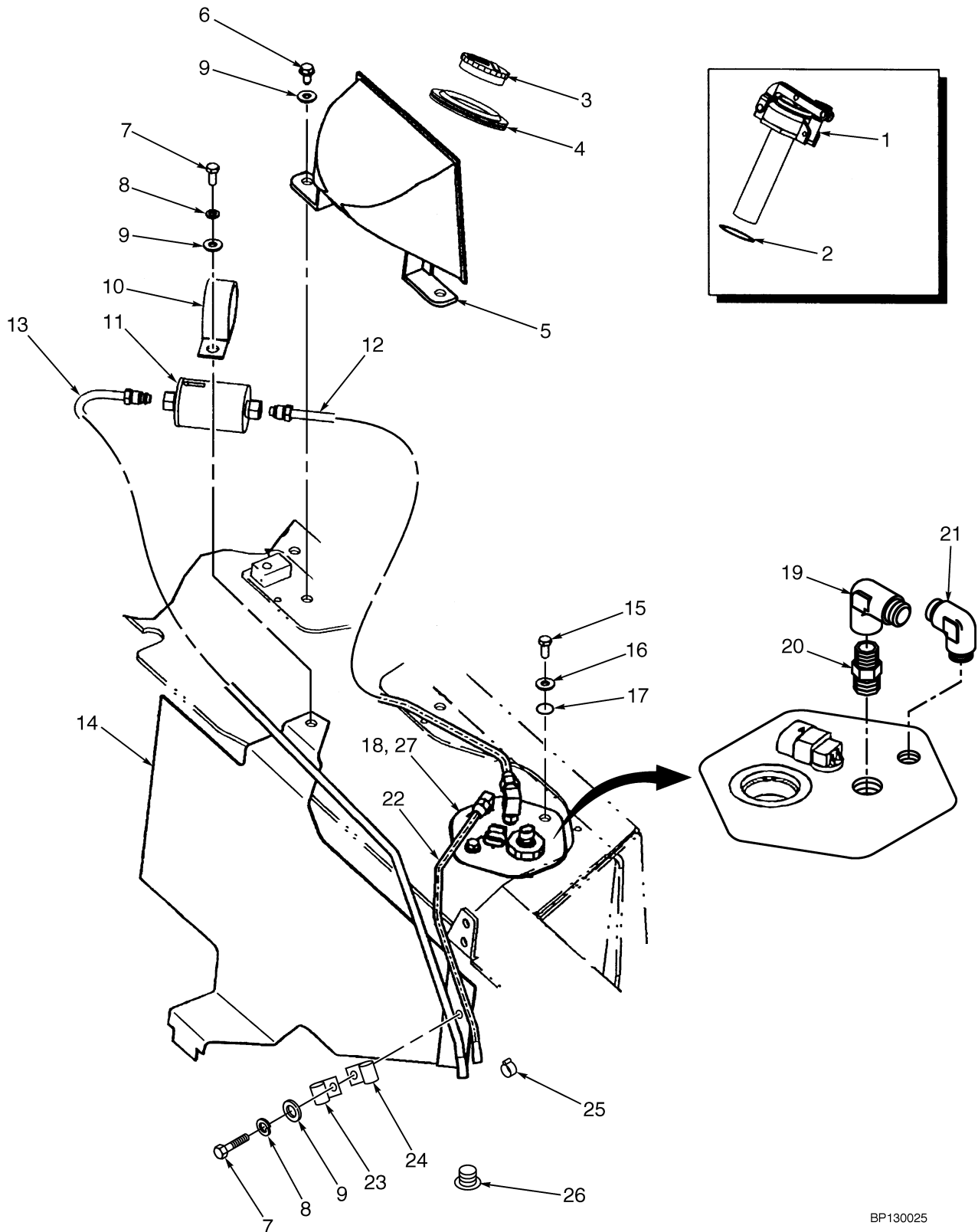


BP130051

**LPG REGULATOR
4.3 L EPA COMPLIANT**

ITEM	PART NO.	DESCRIPTION	QTY
1	1558187	Lock-Off	1
2	1558188	Fitting.....	1
3	1558189	Fitting.....	1
4	1558190	Regulator	1
5	1558191	Pressure Reducing Valve	1
6	1558192	Clamp	1
7	1558168	Bolt	2
8	1558176	Fitting.....	2
9	1558193	Fitting.....	1
10	1558168	Bolt	2
11	1558161	Pin	4
12	1558194	Cap	1

FUEL SUPPLY SYSTEM (Figure 3-14) GASOLINE



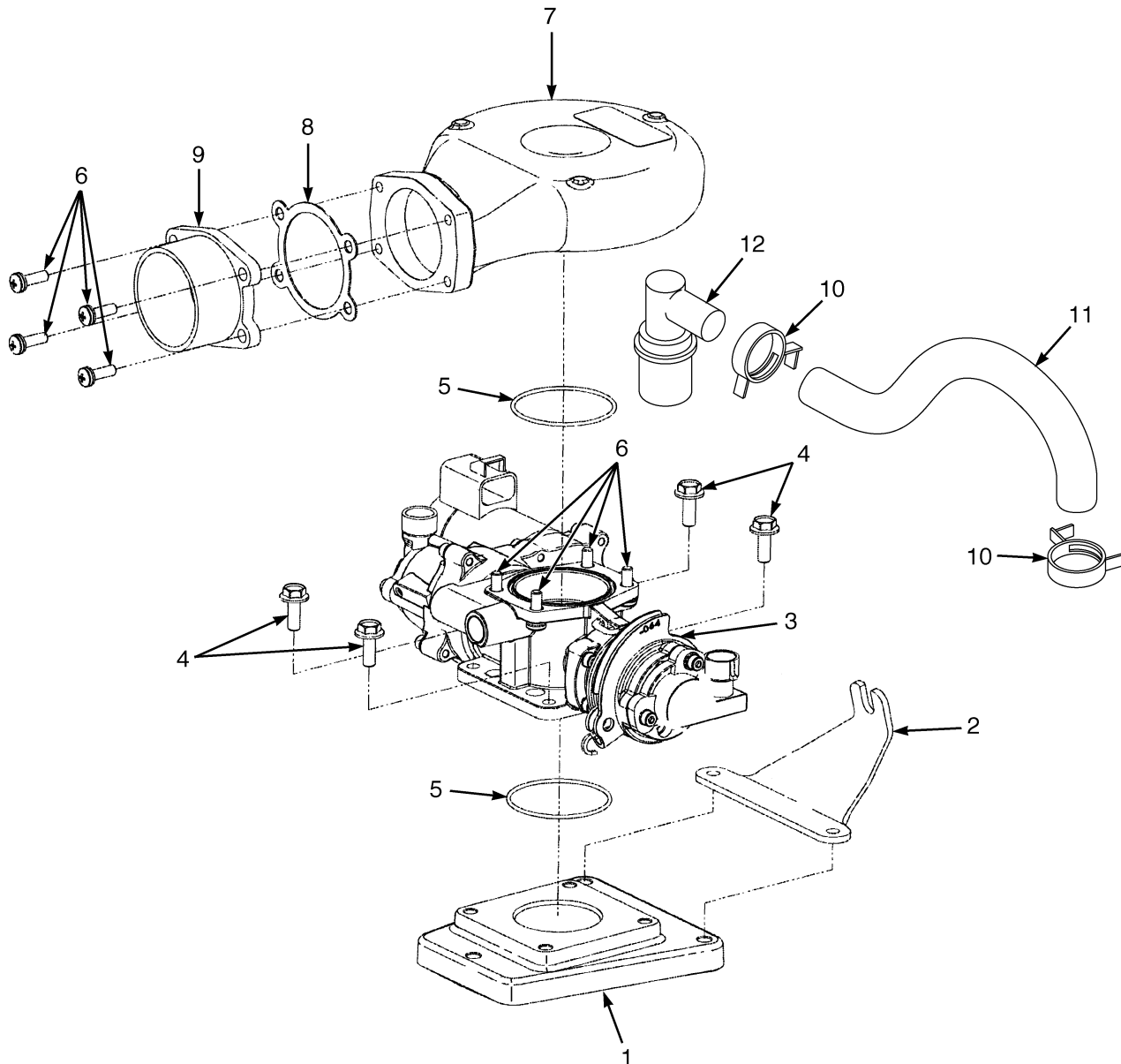
BP130025

**FUEL SUPPLY SYSTEM
GASOLINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	63899	Cap Assembly (GS, DS)	1
2	138880	Shim (0.020 in.) (GS, DS)	1
3	298831	Cap Assembly (Standard).....	1
4	1339720	Grommet.....	1
5	1376746	Shield (Splash)	1
6	316678	Screw.....	2
7	136681	Capscrew.....	2
8	292681	Lockwasher.....	2
9	320158	Washer	4
10	176451	Clamp	1
11	1330342	Filter.....	1
12	1546397	Tube	1
13	1546398	Tube	1
14	1399301	Shield (Heat).....	1
15	1339779	Screw.....	2
16	320157	Washer	2
17	353000	O-Ring	2
18	1508246	Fuel Pump And Sender	1
19	14372	Fitting.....	1
20	16271	Fitting.....	1
21	42213	Fitting.....	1
22	1546399	Tube	1
23	164488	Clamp (Insulated)	1
24	198675	Clamp (Insulated)	1
25	168718	Clamp	2
26	246869	Fitting (Magnetic Tank Drain Plug).....	1
27	1343449	Seal	1

THROTTLE BODY ASSEMBLY (Figure 3-15)

4.3 L EPA COMPLIANT GASOLINE



BP130064

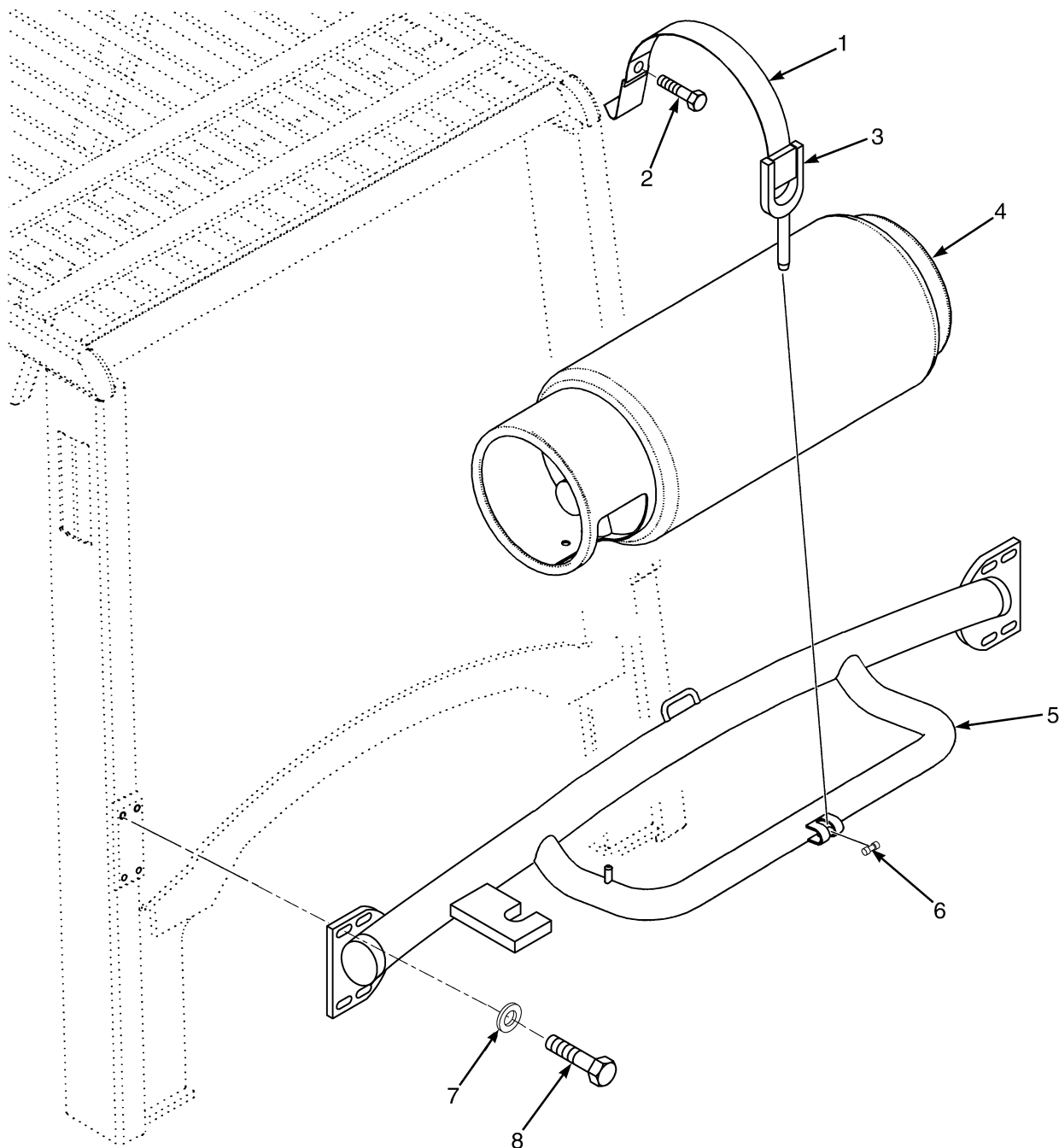
THROTTLE BODY ASSEMBLY

4.3 L EPA COMPLIANT GASOLINE

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	1558433	Bonnet	1
8	204787	Gasket	1
9	1558434	Bonnet Adapter.....	1
10		Clamp	2
11	1558195	Hose (PCV)	1
12	1558437	Valve (PCV)	1
13	a 1558436	Gasket (Not illustrated)	1
14	1561870	Oxygen Sensor (Not Illustrated)	1

FOOTNOTES:**a** Adapter to Manifold

LPG TANK BRACKET (Figure 3-16) FIXED



BP130006

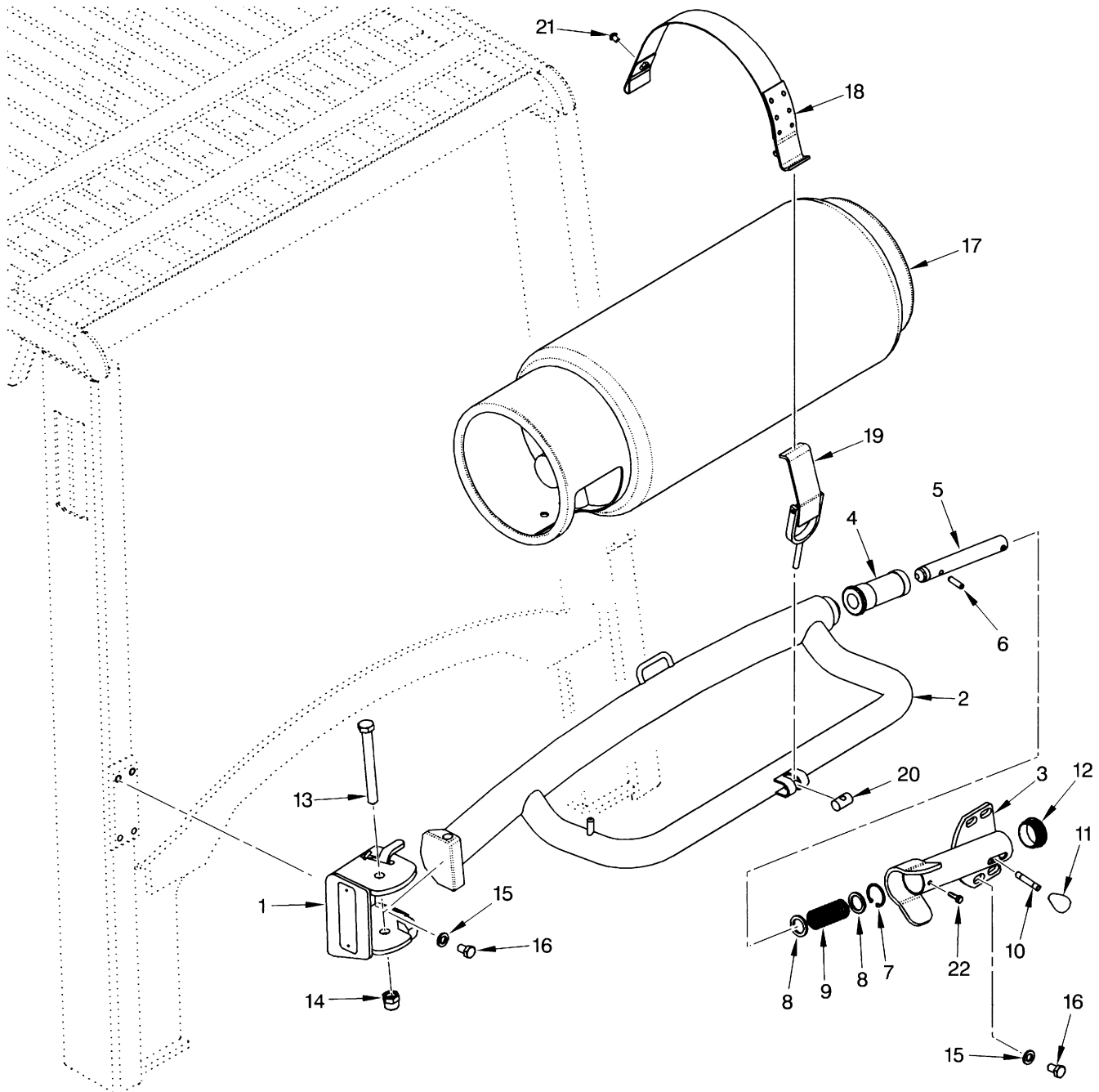
**LPG TANK BRACKET
FIXED**

ITEM	PART NO.	DESCRIPTION	QTY
1	1400197	Strap	1
2	296163	Capscrew.....	1
3	196297	Latch.....	1
4	a	LPG Tank.....	1
5	1495485	Tank Bracket	1
6	147294	Nut	1
7	320161	Washer	8
8	292526	Capscrew.....	8
9	320157	Washer	1

FOOTNOTES:

- a** Contact your authorized dealer for service parts.

LPG TANK BRACKET (Figure 3-17) SWING OUT



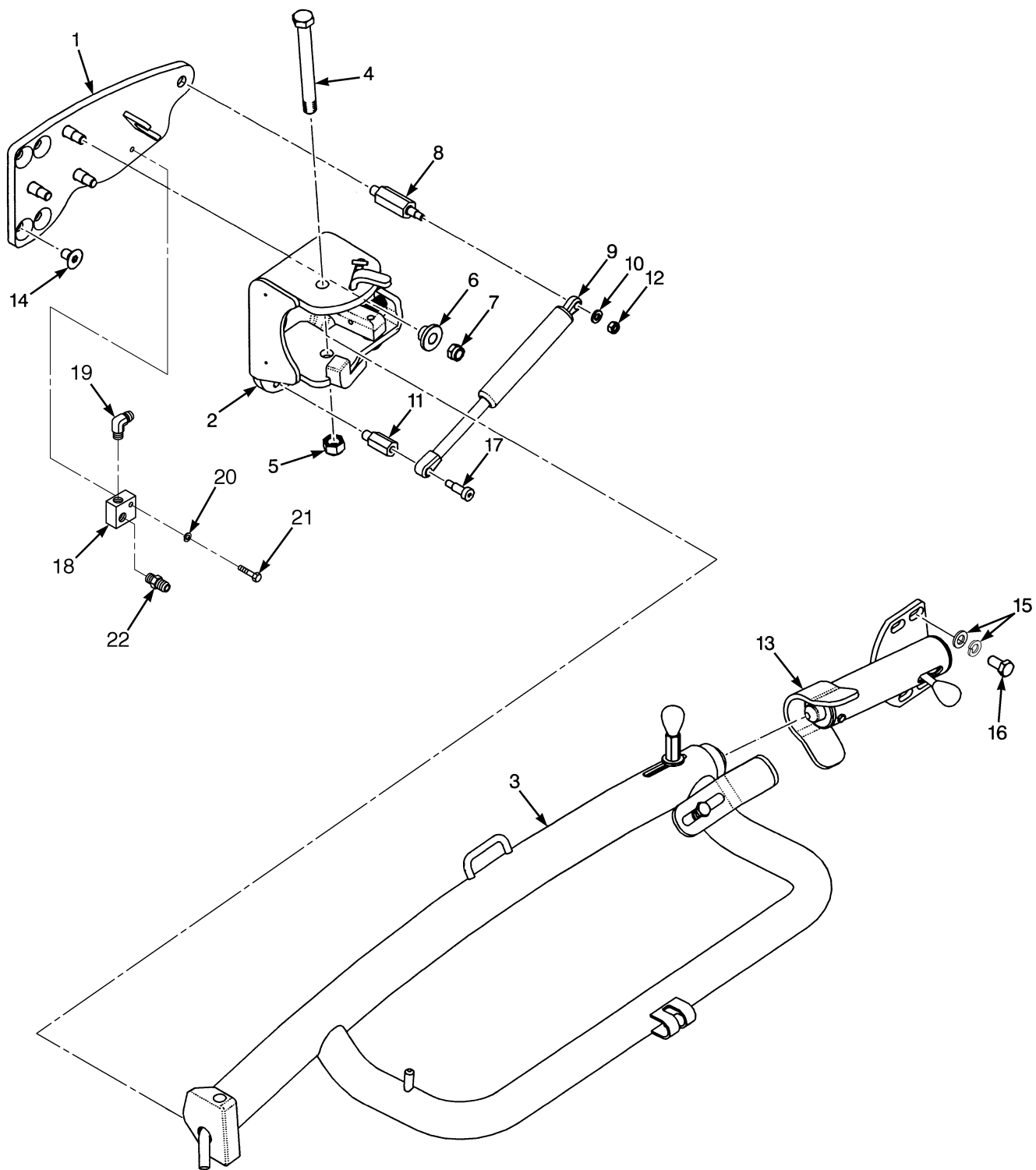
HP130032

**LPG TANK BRACKET
SWING OUT**

ITEM	PART NO.	DESCRIPTION	QTY
	1494466	LPG Tank Bracket Assembly	1
1	1398141	Hinge (LH)	1
2	1494460	Swing Arm	1
3	1398143	Receiver	1
4	1398085	Housing (Latch)	1
5	1398086	Shaft	1
6	302476	Pin	1
7	1398092	Snap Ring (Internal)	1
8	1398089	Spring Seat	2
9	1398093	Spring	1
10	1398097	Shaft (Knob)	1
11	1398098	Knob	1
12	1398099	Plug	1
13	293700	Capscrew	1
14	302404	Locknut	1
15	320161	Washer	8
16	292526	Capscrew	8
17	a	Fuel Tank	1
18	1400197	Strap	1
19	196297	Latch	1
20	147294	Nut	1
21	296164	Capscrew	1
22	148962	Capscrew	1

FOOTNOTES:**a** Contact your authorized dealer for service parts.

LPG TANK BRACKET (Figure 3-18) SWING OUT/DROP DOWN

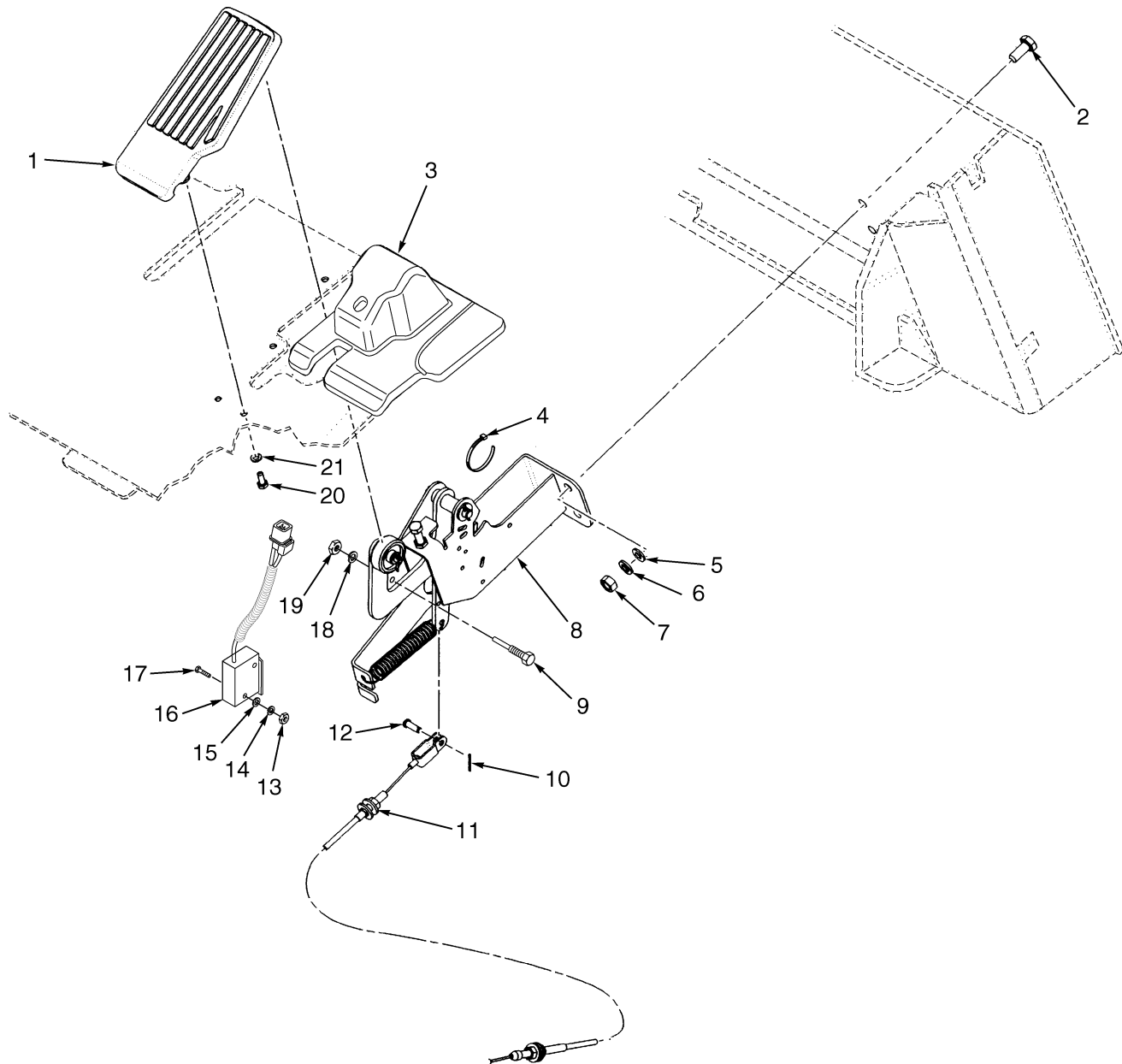


BP130098

**LPG TANK BRACKET
SWING OUT/DROP DOWN**

ITEM	PART NO.	DESCRIPTION	QTY
	1494782	Tank Bracket Assembly.....	1
1	1399405	Base Plate	1
2	1399406	Hinge	1
3	1494784	Tank Carrier.....	1
4	293700	Capscrew	1
5	302404	Locknut.....	1
6	1399360	Guide Washer	3
7	316837	Nut.....	3
8	1399407	Post	1
9	1399372	Gas Spring	1
10	320157	Washer	2
11	1399410	Post	1
12	302400	Locknut.....	1
13	1398144	Latch Tube Assembly	1
13	1398143	Receiver.....	1
13	1398087	Latch (☞ Figure 3-17)	1
13	1398097	Shaft.....	1
13	1398098	Knob.....	1
13	1398099	Plug.....	1
13	148962	Capscrew	1
14	296251	Capscrew	4
15	320161	Washer	4
15	292683	Lockwasher	4
16	132860	Capscrew	4
17	1399347	Bolt	1
18	1485436	Fitting.....	1
19	14358	Fitting.....	1
20	292681	Lockwasher.....	1
21	292508	Capscrew.....	1
22	16134	Fitting.....	1

THROTTLE LINKAGE (Figure 3-19) GASOLINE AND LPG FORWARD AND REVERSE LEVER

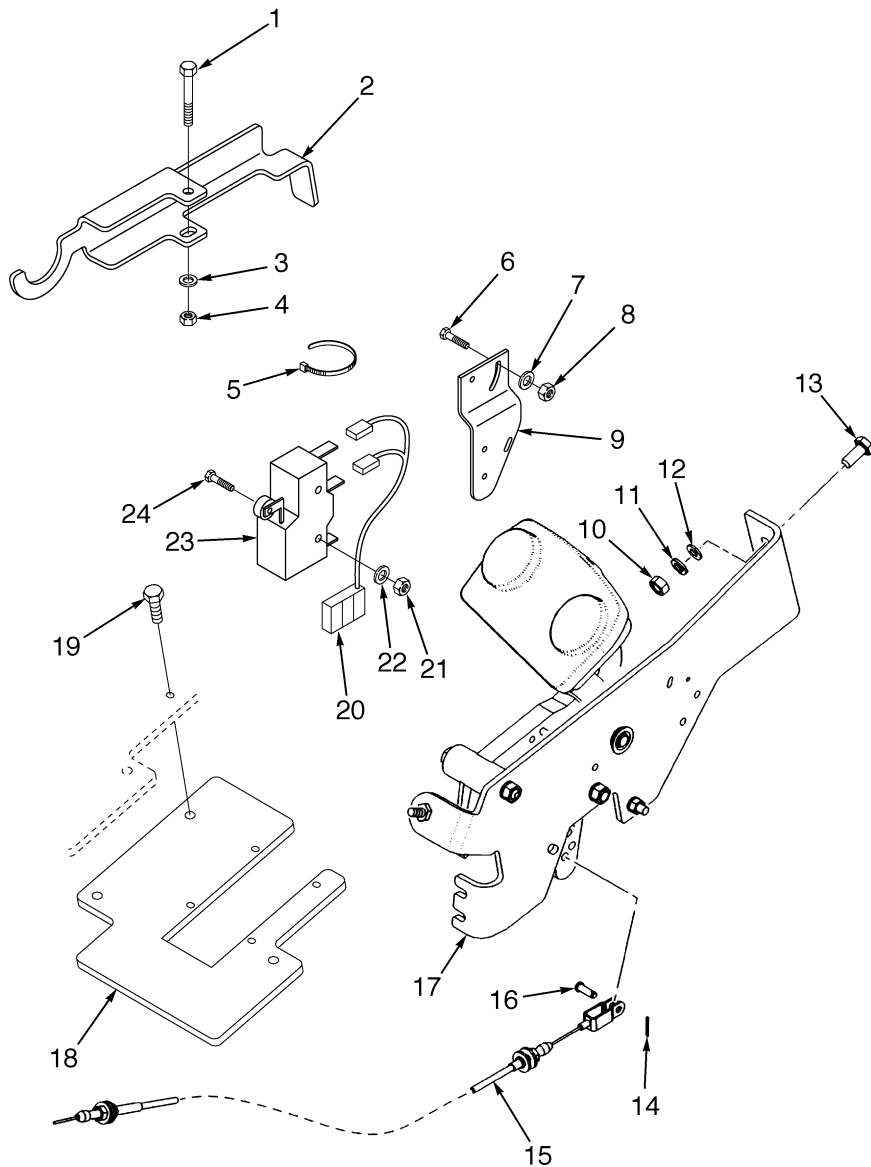


BP130031

THROTTLE LINKAGE GASOLINE AND LPG FORWARD AND REVERSE LEVER

ITEM	PART NO.	DESCRIPTION	QTY
1	2027337	Pedal.....	1
2	287860	Capscrew.....	2
3	1466632	Cover.....	1
4	114312	Strap Clamp.....	1
5	320159	Washer	2
6	292682	Lockwasher.....	2
7	136692	Nut	2
8	1465778	Throttle Arm Assembly (☞ Figure 3-21)	1
9	1477491	Pin	1
10	15212	Cotter Pin.....	1
11	2062321	Throttle Cable	1
12	162836	Rod End Pin	1
13	292665	Nut	2
14	53162	Lockwasher.....	2
15	197064	Washer	2
16	2037112	Switch	1
17	302013	Screw.....	2
18	292681	Lockwasher.....	1
19	329069	Nut	1
20	292500	Capscrew.....	2
21	292680	Lockwasher.....	2

THROTTLE LINKAGE (Figure 3-20) GASOLINE AND LPG MONOTROL PEDAL



BP130033

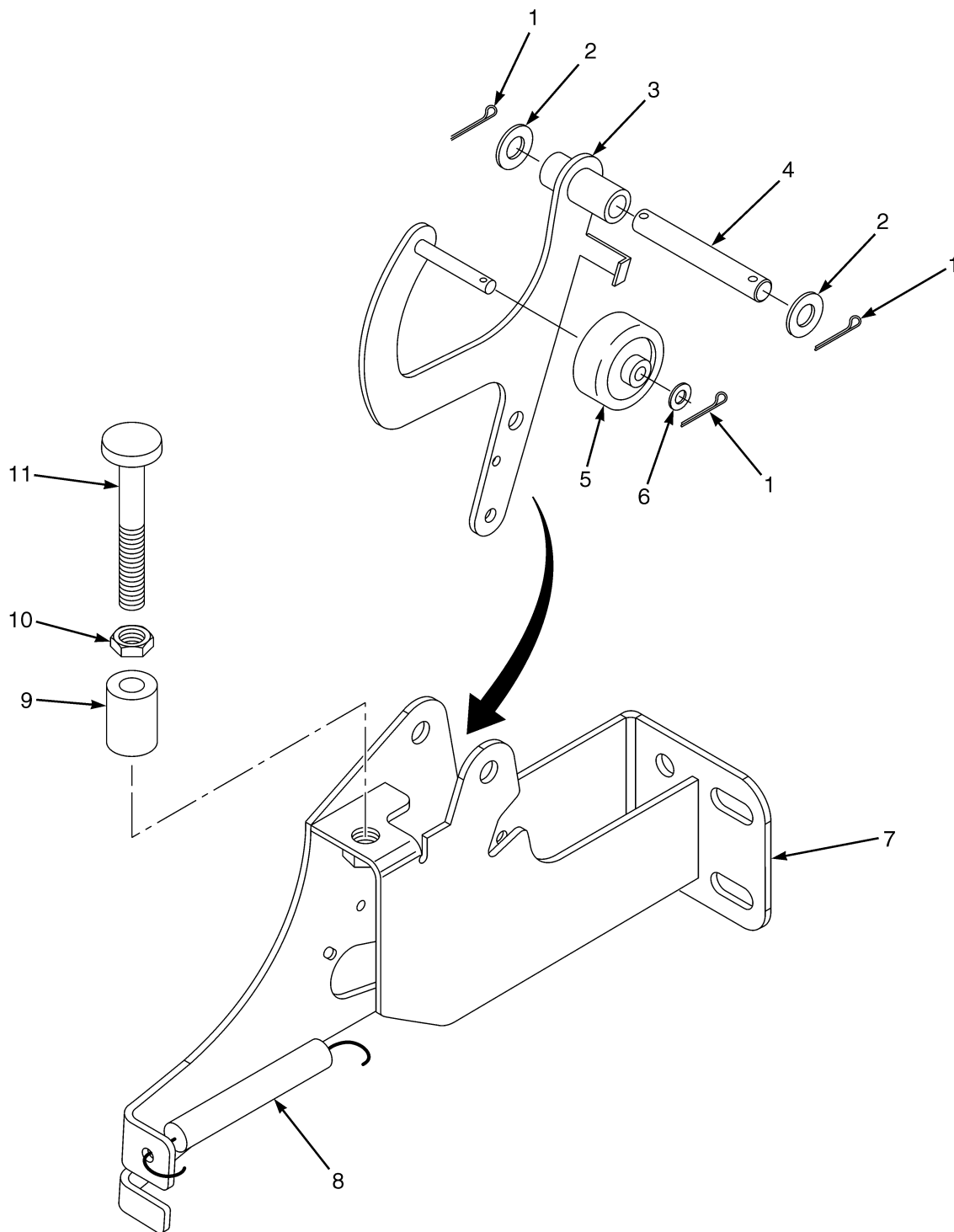
THROTTLE LINKAGE GASOLINE AND LPG MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
1	292505	Capscrew.....	1
2	1473859	Bracket.....	1
3	320156	Washer	1
4	302399	Nut	1
5	114312	Strap Clamp.....	2
6	302024	Screw.....	2
7	320154	Washer	2
8	815597	Nut	2
9	1473994	Plate	1
10	136692	Nut	2
11	292682	Lockwasher.....	2
12	320159	Washer	2
13	287860	Capscrew.....	2
14	15212	Cotter Pin.....	1
15	2062321	Throttle Cable	1
16	162836	Rod End Pin	1
17	1565899	Pedal And Bracket Assembly (See Figure 3-23)	1
18	2052191	Cover (With Cab)	1
18	2035836	Cover (With Overhead Guard)	1
19	316678	Screw.....	3
20	a 2047717	Wire Harness.....	1
21	292665	Nut	2
22	53162	Lockwasher.....	2
23	1320893	Switch	1
24	302105	Screw.....	2

FOOTNOTES:

a Throttle-Up

THROTTLE ARM ASSEMBLY (Figure 3-21)

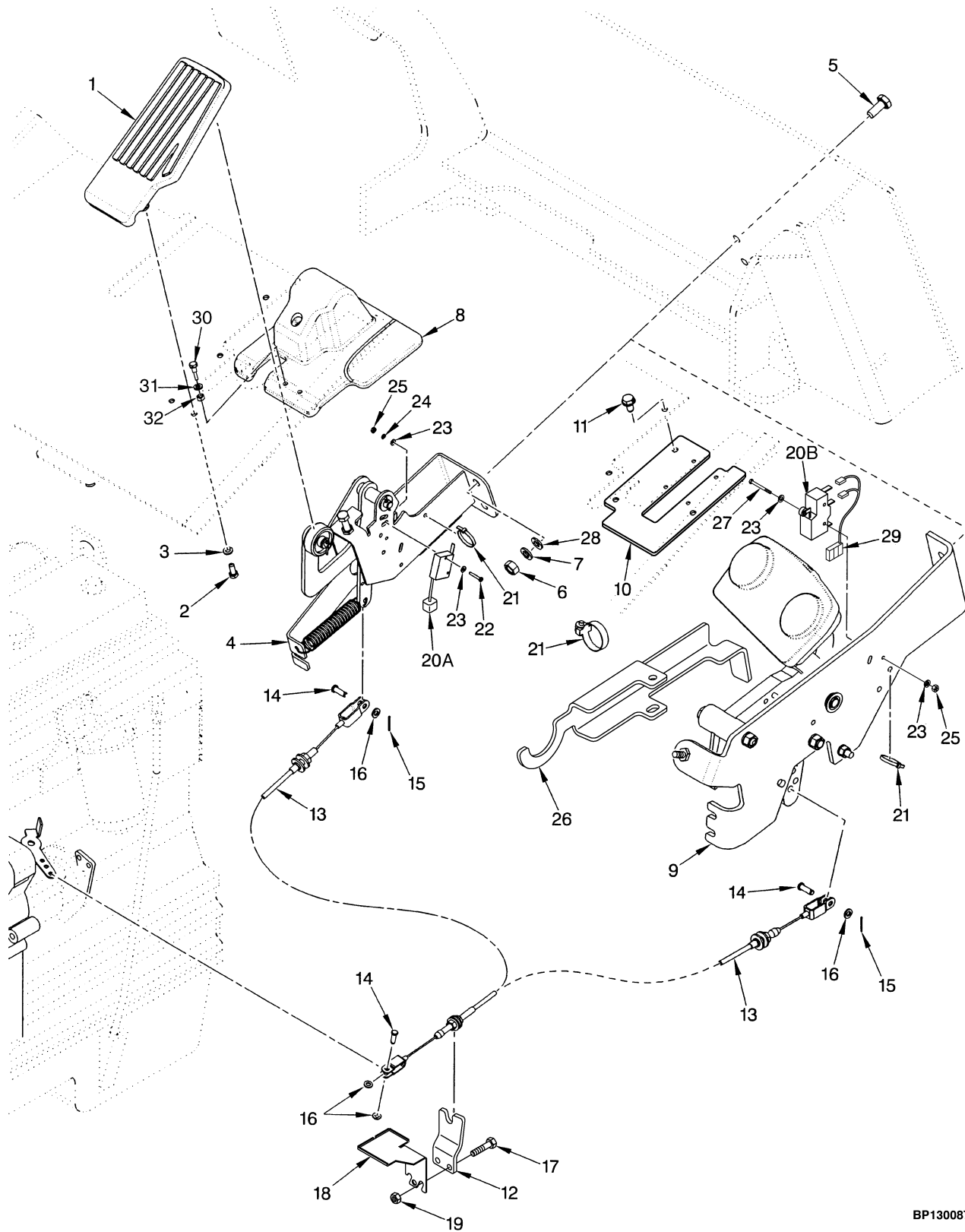


BP130034

THROTTLE ARM ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1465778	Throttle Arm Assembly	1
1	15212	Cotter Pin	3
2	320159	Washer	2
3	1465780	Lever.....	1
3	1400224	Shaft.....	1
4	1400232	Shaft	1
5	1465799	Roller	1
6	320156	Washer	1
7	1465779	Bracket	1
8	1400223	Spring	2
9	1471496	Spacer	1
10	15001	Nut.....	1
11	1471541	Stud.....	1

THROTTLE LINKAGE (Figure 3-22) DIESEL TIER II



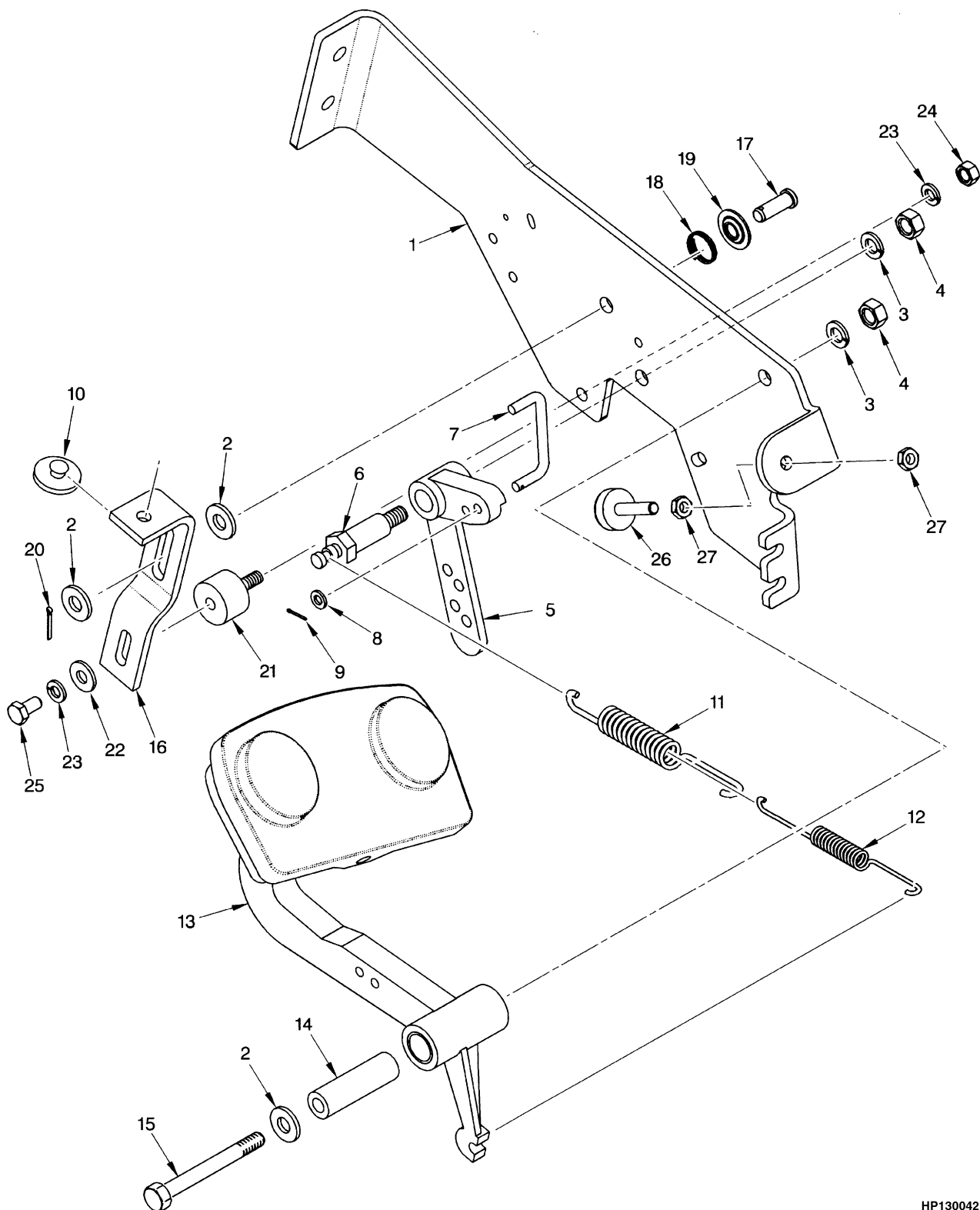
BP130087

**THROTTLE LINKAGE
DIESEL TIER II****KEY:****A: Forward/Reverse Lever****B: Monotrol Pedal**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2027337	Pedal.....	1	..
2	292500	Capscrew.....	2	..
3	292680	Lockwasher.....	2	..
4	1465778	Throttle Arm Assembly (☞ Figure 3-21)	1	..
5	287860	Capscrew.....	2	2
6	136692	Nut	2	1
7	292682	Lockwasher.....	2	1
8	1466632	Cover	1	..
9	1465899	Monotrol Pedal and Bracket Assembly (☞ Figure 3-23)	..	1
10	2052191	Cover (With Cab)	..	1
10	2035836	Cover (Without Cab)	..	1
11	316678	Screw.....	..	3
12	1536880	Bracket.....	1	1
13	2065703	Throttle Cable	..	1
13	2065704	Throttle Cable	1	..
14	167218	Rod End Pin	2	2
15	15201	Cotter Pin.....	2	2
16	320156	Washer	3	3
17	1527877	Screw.....	2	2
18	1539747	Shield.....	2	2
19	1514429	Nut (Flange).....	2	2
20	2037112	Switch	1	..
20	1320893	Switch	..	1
21	114312	Strap Clamp.....	1	2
22	302013	Screw.....	2	..
23	53162	Lockwasher.....	2	2
24	197064	Washer	2	..
25	292665	Nut	2	2
26	1473859	Bracket.....	..	1
27	302015	Screw.....	..	2
28	320159	Washer	2	2
29	2047717	Wire Harness.....	..	1
30	a 1477491	Pin	1	..
31	a 292681	Lockwasher.....	1	..
32	a 329069	Nut	1	..

FOOTNOTES:**a** Throttle-Up

MONOTROL PEDAL AND BRACKET ASSEMBLY (Figure 3-23)

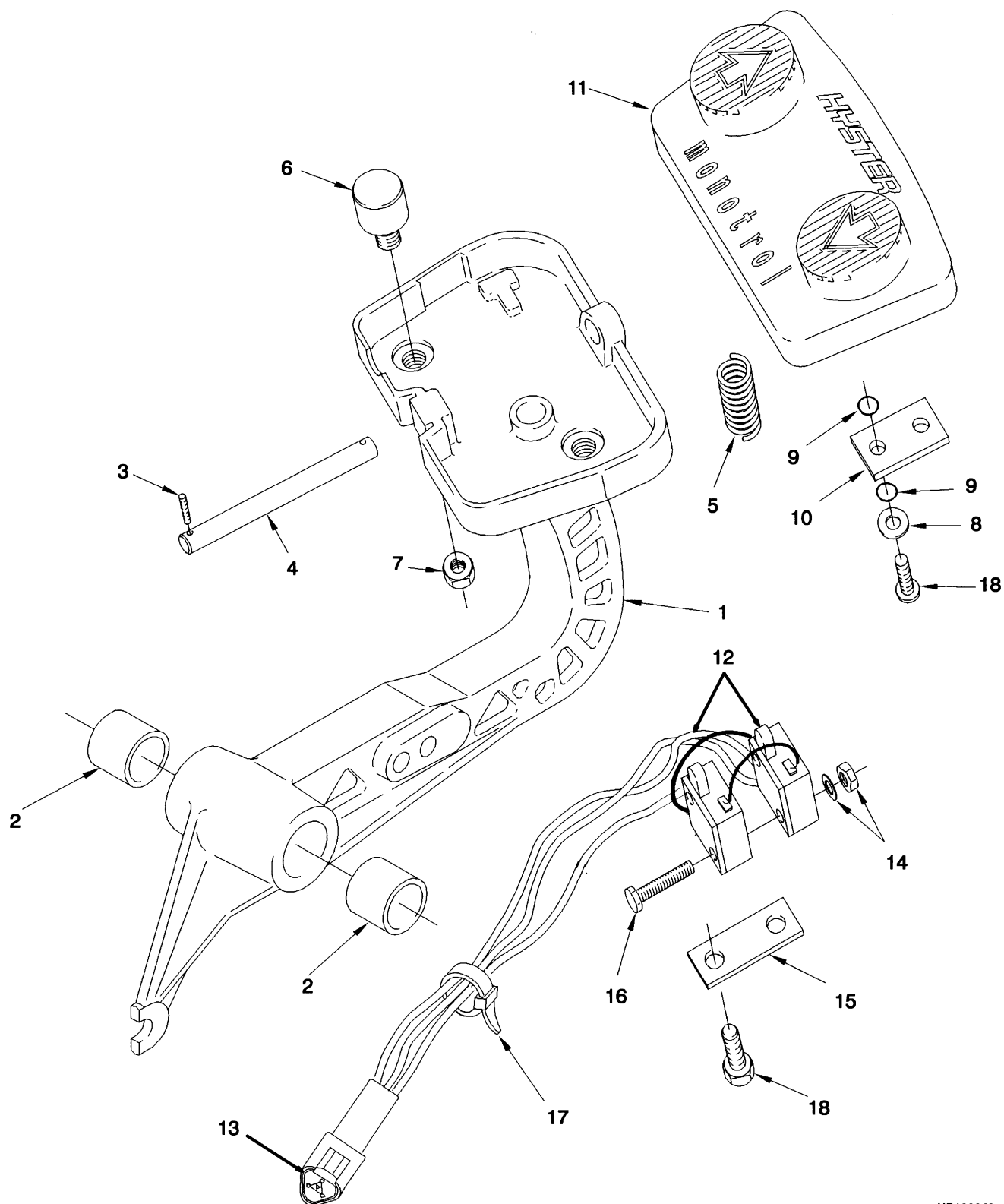


HP130042

MONOTROL PEDAL AND BRACKET ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1465899	Monotrol Pedal and Bracket Assembly	1
1	1396151	Bracket	1
2	320160	Washer	3
3	292682	Lockwasher	2
4	136692	Nut.....	2
5	353164	Crank.....	1
6	352485	Shaft	1
7	353129	Rod.....	1
8	320156	Washer	1
9	15200	Cotter Pin	1
10	353195	Bumper.....	1
11	353143	Spring.....	1
12	353142	Spring.....	1
13	1352575	Pedal Assembly.....	1
14	353141	Bushing	1
15	292523	Capscrew	1
16	352950	Bracket	1
17	142	Pin	1
18	353172	Spring.....	1
19	353230	Cap.....	1
20	15212	Cotter Pin	1
21	353453	Mount	1
22	320158	Washer	1
23	292681	Lockwasher	2
24	239503	Nut.....	1
25	287851	Capscrew	1
26	1347088	Stop Screw.....	1
27	15001	Nut.....	2

MONOTROL PEDAL (Figure 3-24)



HP130043

MONOTROL PEDAL

ITEM	PART NO.	DESCRIPTION	QTY
	1352575	Pedal Assembly	1
1	353397	Pedal	1
2	135685	Bushing	2
3	220932	Screw	2
3	360387	Sealant	AR
4	353154	Pin	1
5	353168	Spring	1
6	353422	Magnet	2
7	353432	Nut	2
8	353448	Washer	4
9	57568	O-Ring	8
10	359207	Plate	2
11	353175	Pad	1
12	1352090	Switch Assembly	1
12	353128	Switch	1
12	1352089	Wire Harness	1
13	1330410	Connector	1
13	1330415	Lock	1
13	1330435	Pin	3
14	53162	Lockwasher	2
14	16865	Nut	2
15	353165	Retainer	1
16	220434	Capscrew	2
17	114312	Strap Clamp	3
18	352969	Screw	6

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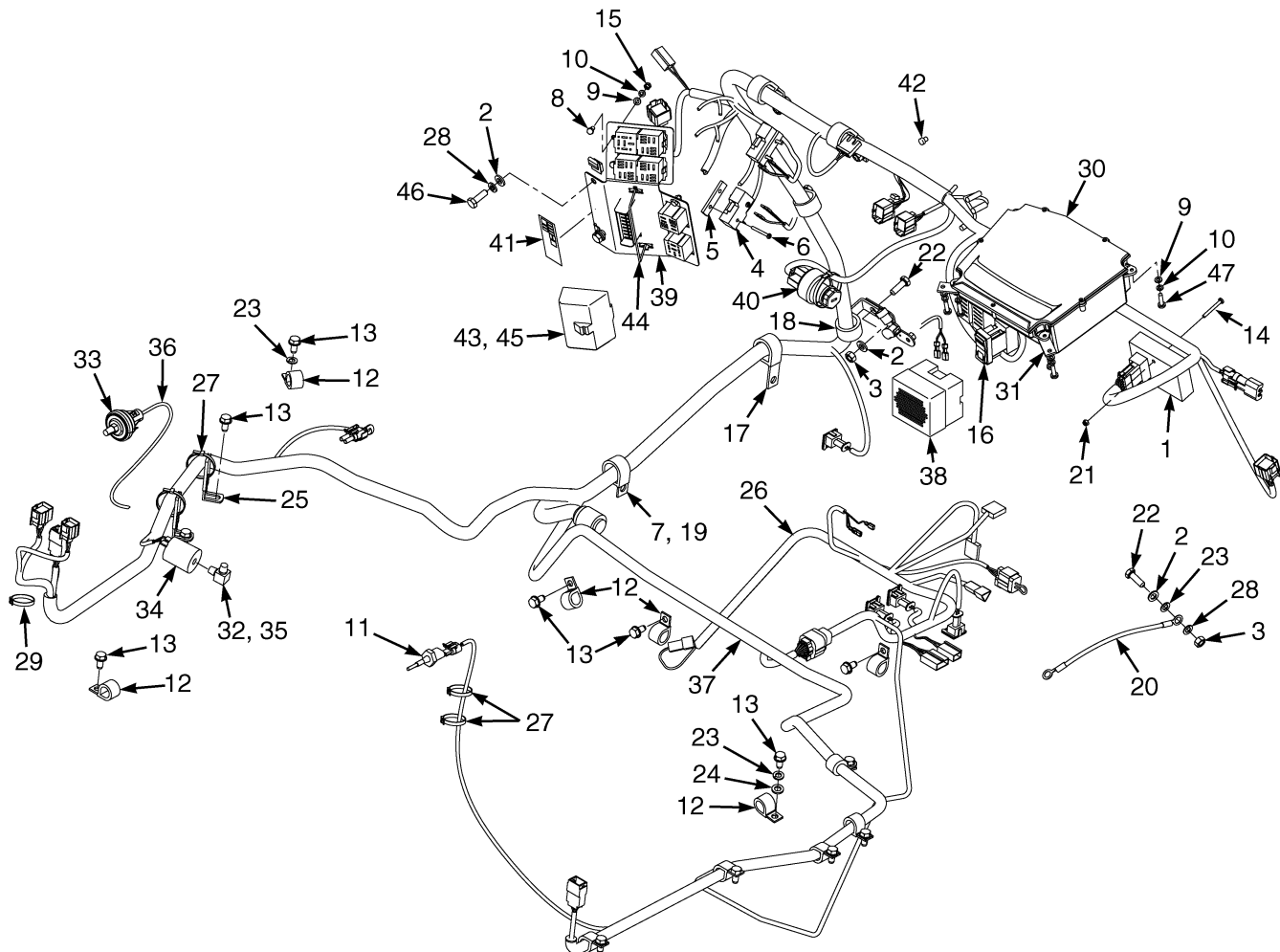
4

ELECTRICAL SYSTEM

SECTION 4 ELECTRICAL SYSTEM

DESCRIPTION	PAGE
ALTERNATOR	
PRESTOLITE BRAND	
GS, LPS, DS	4-22
DISTRIBUTOR ASSEMBLY	
4.3 L EPA COMPLIANT ENGINE	4-21
ELECTRICAL SYSTEM	
ALTERNATOR AND BATTERY	
G, GS, LPG AND LPS	4-10
COWL	4-2
DIESEL TIER II	4-14
ENGINE COMPARTMENT	
GASOLINE AND LPG	4-8
TYPE DS	4-18
INSTRUMENT PANEL	4-6
STARTER	
DIESEL TIER II	4-24
WIRE HARNESS	
MODULE	
SHEET 1 OF 2	4-28
SHEET 2 OF 2	4-32
SEALED ALTERNATOR	4-36
WIRE HARNESS (ENGINE)	
DIESEL TIER II	4-26

ELECTRICAL SYSTEM (Figure 4-1) COWL



HP081418

**ELECTRICAL SYSTEM
COWL****KEY:****A: Single And Two Speed Transmission (With Speed Control)****B: Single Speed Transmission (Without Speed Control)**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2059789	Controller	1	..
2	320157	Washer	15	15
3	239503	Nut	10	10
4	370868	Switch	2	2
5	316132	Spacer	2	2
6	86510	Screw	4	4
7	178119	Clamp	..	2
8	302244	Screw	4	4
9	320155	Washer	8	8
10	292679	Lockwasher	8	8
11	1384594	Low Coolant Sensor	1	1
12	166285	Clamp	10	10
13	316678	Screw	12	12
14	296504	Screw	2	..
15	292668	Nut	4	4
16	1397840	Switch (Transmission Control)	1	..
17	1310611	Clamp	1	1
18	1399400	Clamp	3	3
19	178119	Clamp	2	..
20	387892	Wire Harness (Ground)	1	1
21	815597	Nut	2	..
22	136749	Capscrew	8	8
23	296380	Lockwasher	4	4
24	320158	Washer	1	1
25	1350914	Strap	2	2
26	2059309	Wire Harness (Powershift Transmission Control)	1	1
27	137852	Strap Clamp	6	6
28	292681	Lockwasher	4	4
29	325897	Clamp	1	1
30	.....	Instrument Panel (☞ Figure 4-2)	1	1
31	1399886	Strap	2	2
32	a 14349	Fitting	1	1
33	ab 1301648	Low Pressure Switch	1	1
34	b 1347067	Switch (Restriction)	1	1
35	bc 17650	Fitting	1	1
36	2036542	Wire Harness	1	1
37	2063002	Wire Harness (Module) (Gas, LPG, Diesel) (☞ Figure 4-11, ☞ Figure 4-12) ...	1	1
37	2063000	Wire Harness (Module) (GS, LPS, DS) (☞ Figure 4-11, ☞ Figure 4-12)	1	1
38	1524525	Horn (Electric)	1	1
39	1492957	Bracket	1	1
40	379902	Ignition Switch	1	1
40	1337197	Key Set	1	1
41	1515763	Label (Fuse Panel Relays)	1	1
42	1363916	Plug	4	4
43	370863	Cover	1	1
44	370864	Latch (Cover)	1	1

**ELECTRICAL SYSTEM
COWL**

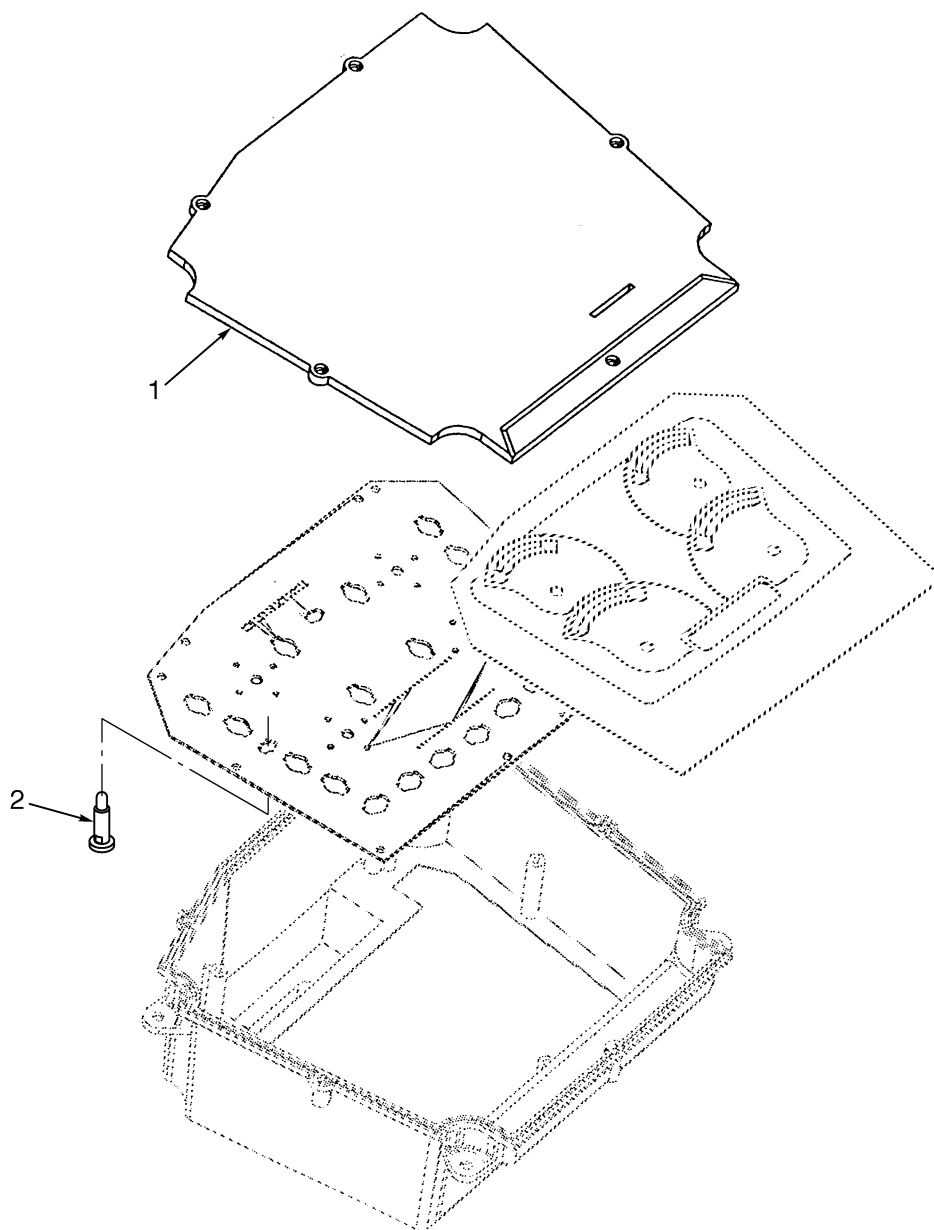
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
45	1397451	Label (Fuse Panel)	1	1
46	136681	Capscrew.....	2	2
47	296510	Screw.....	4	4

FOOTNOTES:

- a** LPG
- b** Premium
- c** Standard Diesel

[illegible]

INSTRUMENT PANEL (Figure 4-2)

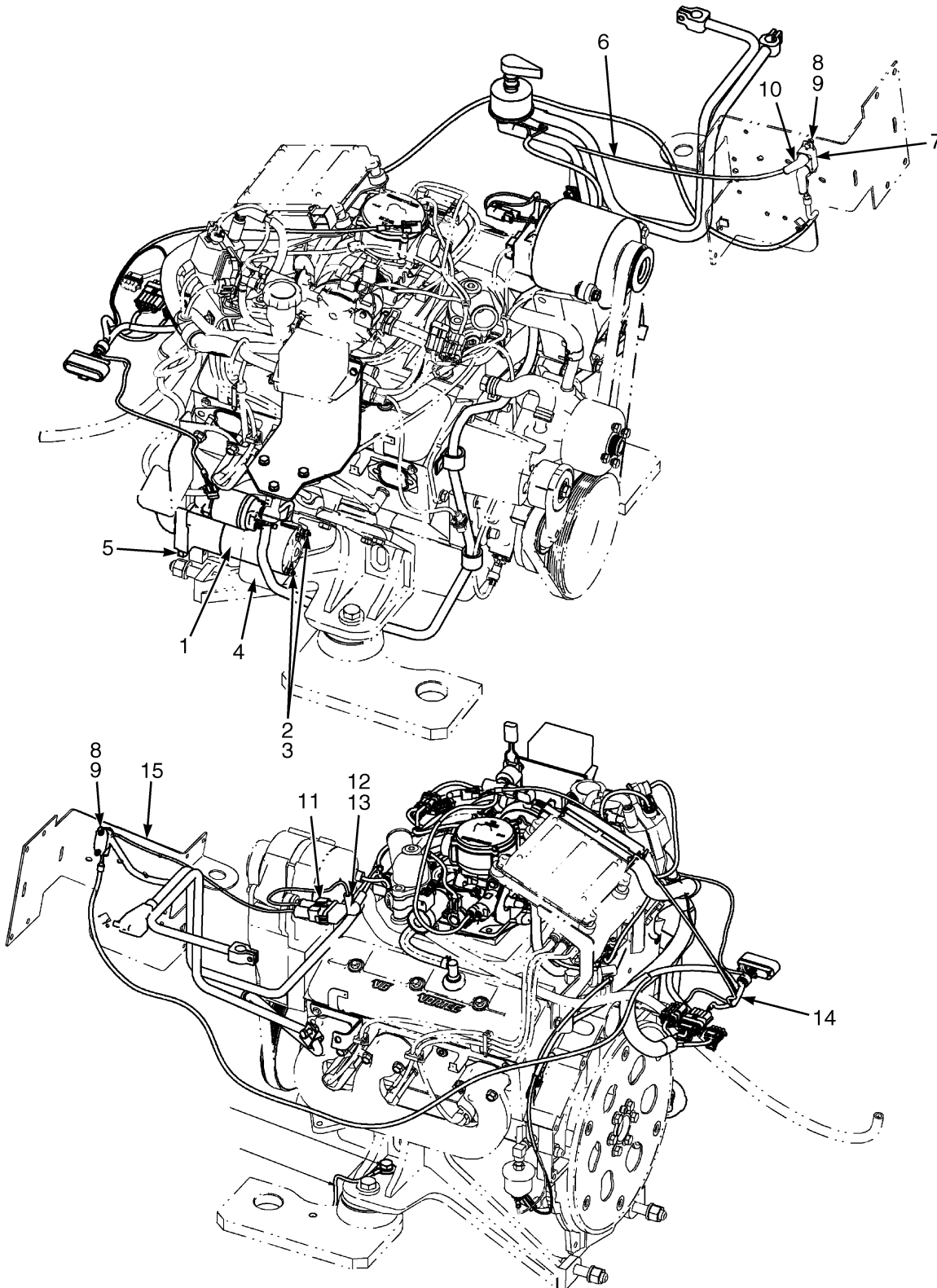


BP080174

INSTRUMENT PANEL**KEY:****A: Standard****B: Premium**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1510312	Instrument Panel (Gas and Diesel).....	1	..
	1510313	Instrument Panel (LPG)	1	..
	1510310	Instrument Panel (Gas and Diesel).....	..	1
	1510311	Instrument Panel (LPG)	..	1
1	1533858	Cover.....	1	..
1	1533859	Cover.....	..	1
2	1533797	Bulb	2	4

ELECTRICAL SYSTEM (Figure 4-3) ENGINE COMPARTMENT GASOLINE AND LPG

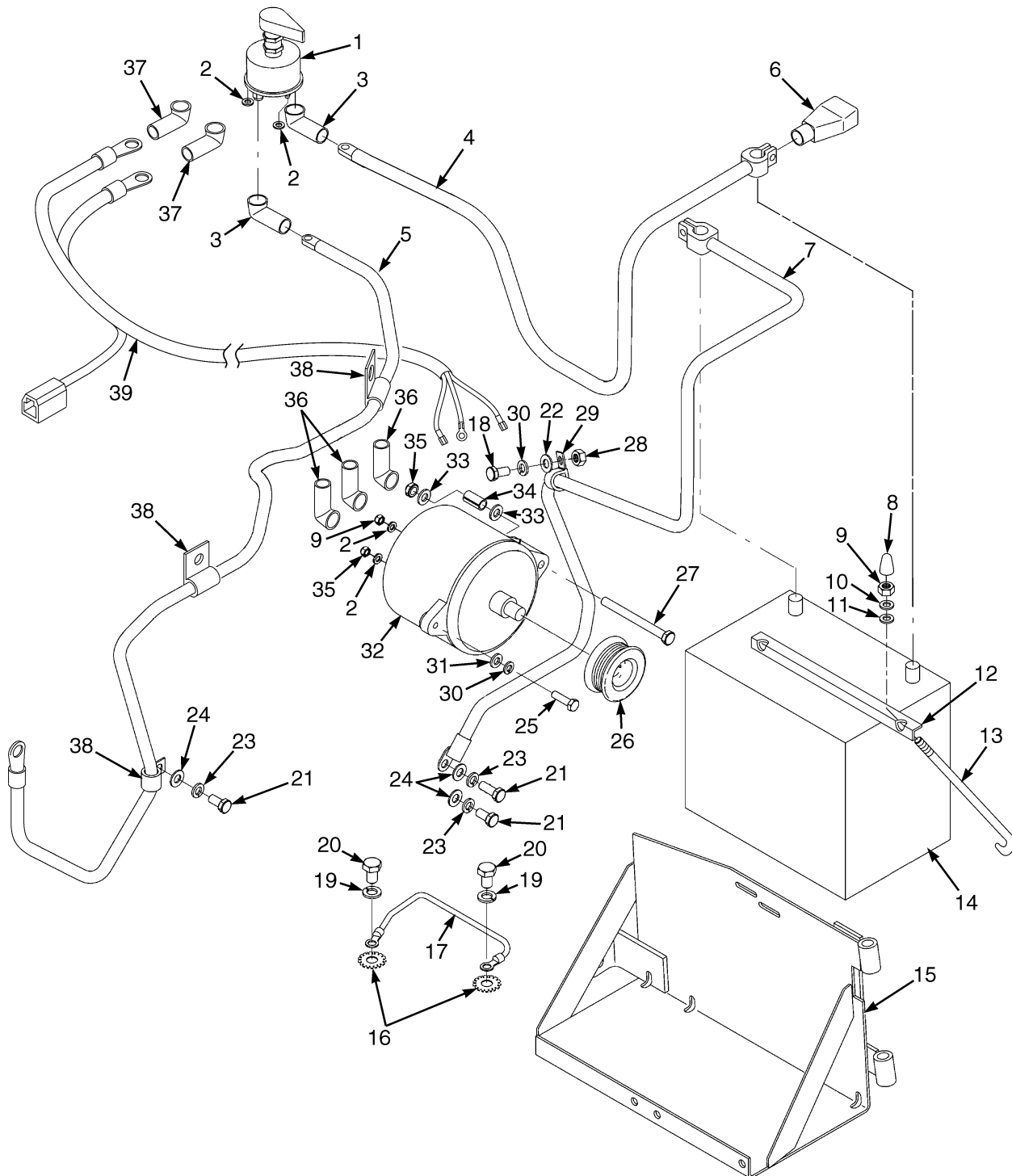


BP080218

ELECTRICAL SYSTEM ENGINE COMPARTMENT GASOLINE AND LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1469604	Starter.....	1
2	15152	Lockwasher.....	2
3	15052	Nut	2
4	1533891	Bracket.....	1
5	1397716	Bolt	1
6	1558060	Wire Harness (Disconnect Switch To Circuit Breaker).....	1
7	2044948	Circuit Breaker (50 Amp)	1
8	292667	Nut	4
9	292678	Lockwasher.....	4
10	190383	Boot	1
11	1549399	Harness (Alternator To Circuit Breaker).....	1
12	296359	Lockwasher.....	2
13	136687	Nut	2
14	2062220	Wire Harness (Interface)	1
15	1551850	Bracket.....	1

ELECTRICAL SYSTEM (Figure 4-4) ALTERNATOR AND BATTERY G, GS, LPG AND LPS



BP080185

ELECTRICAL SYSTEM ALTERNATOR AND BATTERY G, GS, LPG AND LPS

KEY:**A: Gasoline and LP****B: GS and LPS**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1324517	Switch (Disconnect)	..	1
2	296359	Lockwasher	2	..
2	18500	Washer	..	6
3	204223	Boot	2	2
4	1523472	Battery Cable	1	..
4	1397786	Battery Cable	..	1
5	1523472	Battery Cable	1	..
5	1397787	Battery Cable	..	1
6	321158	Boot	1	1
7	1397783	Battery Cable	1	1
8	1326939	Cap	3	3
9	136687	Nut	2	2
10	292680	Lockwasher	2	2
11	320156	Washer	2	2
12	309152	Battery Hold Down	1	1
13	309124	Link (Battery Holddown)	2	2
14	1383331	Battery (Wet)	1	1
15	2067334	Battery Tray	1	1
16	296408	Lockwasher	2	2
17	1493116	Wire Harness (Ground)	1	1
18	136749	Capscrew	1	1
19	292683	Lockwasher	2	2
20	292526	Capscrew	2	2
21	16597	Capscrew (LP, LPS)	2	2
21	16597	Capscrew (G, GS,)	3	3
22	320158	Washer	4	4
23	15156	Lockwasher	3	3
24	15134	Washer	3	3
25	18498	Capscrew	..	1
26	1392210	Pulley	..	1
27	18546	Capscrew	1	1
28	239503	Nut	4	4
29	153069	Clamp (LP, LPS)	1	1
30	292681	Lockwasher	4	4
30	15155	Lockwasher	..	1
31	18515	Washer	..	1
32	a 1469597	Alternator (G, LPG)	1	..
32	1394001	Alternator (GS, LPS) (See Figure 4-8)	..	1
33	261379	Washer	2	2
34	189338	Spacer (Alternator Bracket)	1	1
34	305100	Sleeve (Not Illustrated)	1	..
35	287851	Capscrew	1	1
35	139743	Locknut	1	1
35	136687	Nut	2	2
36	190383	Boot	1	3

**ELECTRICAL SYSTEM
ALTERNATOR AND BATTERY
G, GS, LPG AND LPS**

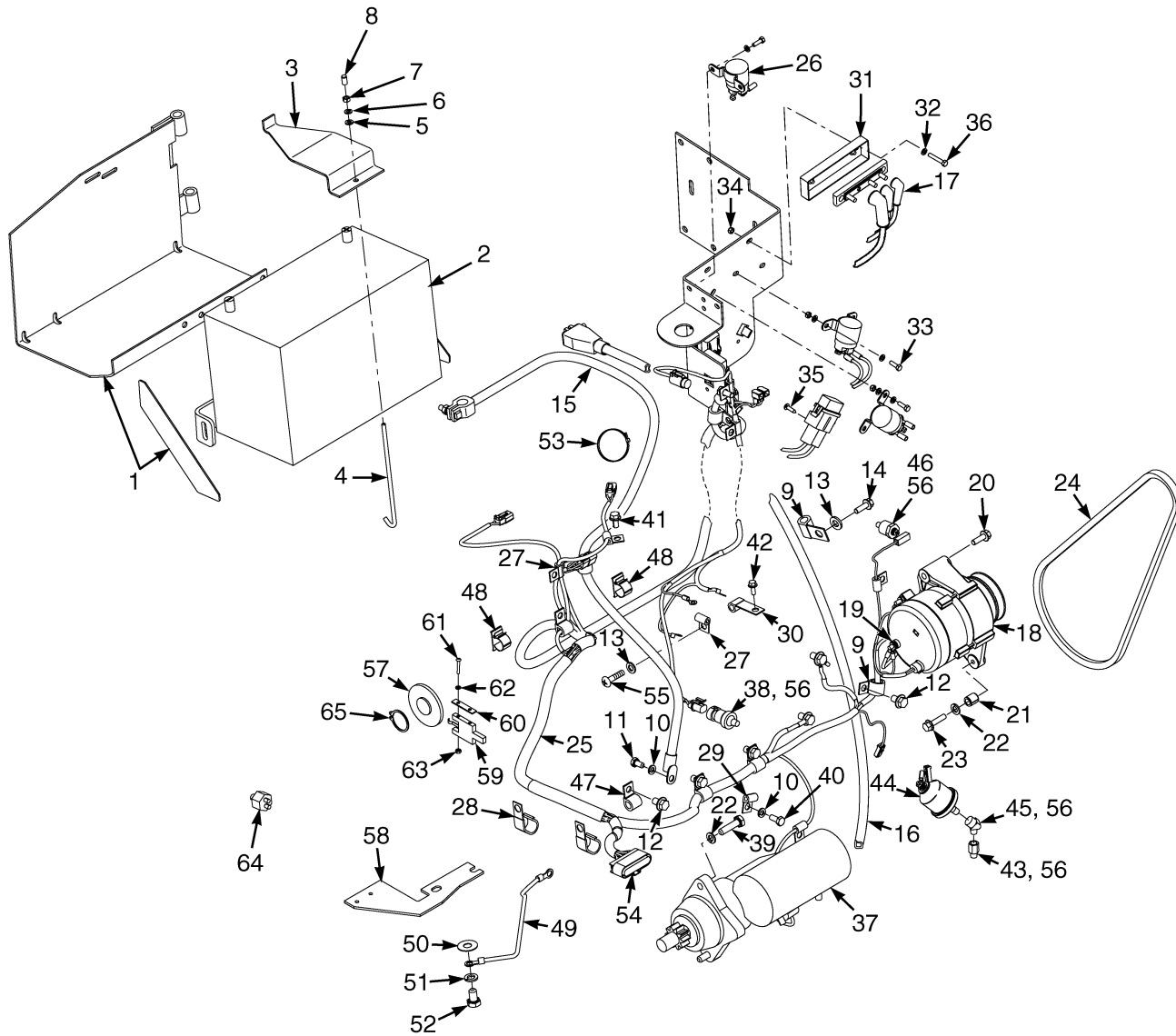
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
37	157065	Boot	1	1
38	153069	Clamp	4	4
39	2068496	Wire Harness (☞ Figure 4-13)	..	1

FOOTNOTES:

a Includes Pulley

[illegible]

ELECTRICAL SYSTEM (Figure 4-5) DIESEL TIER II



BP080186

**ELECTRICAL SYSTEM
DIESEL TIER II**

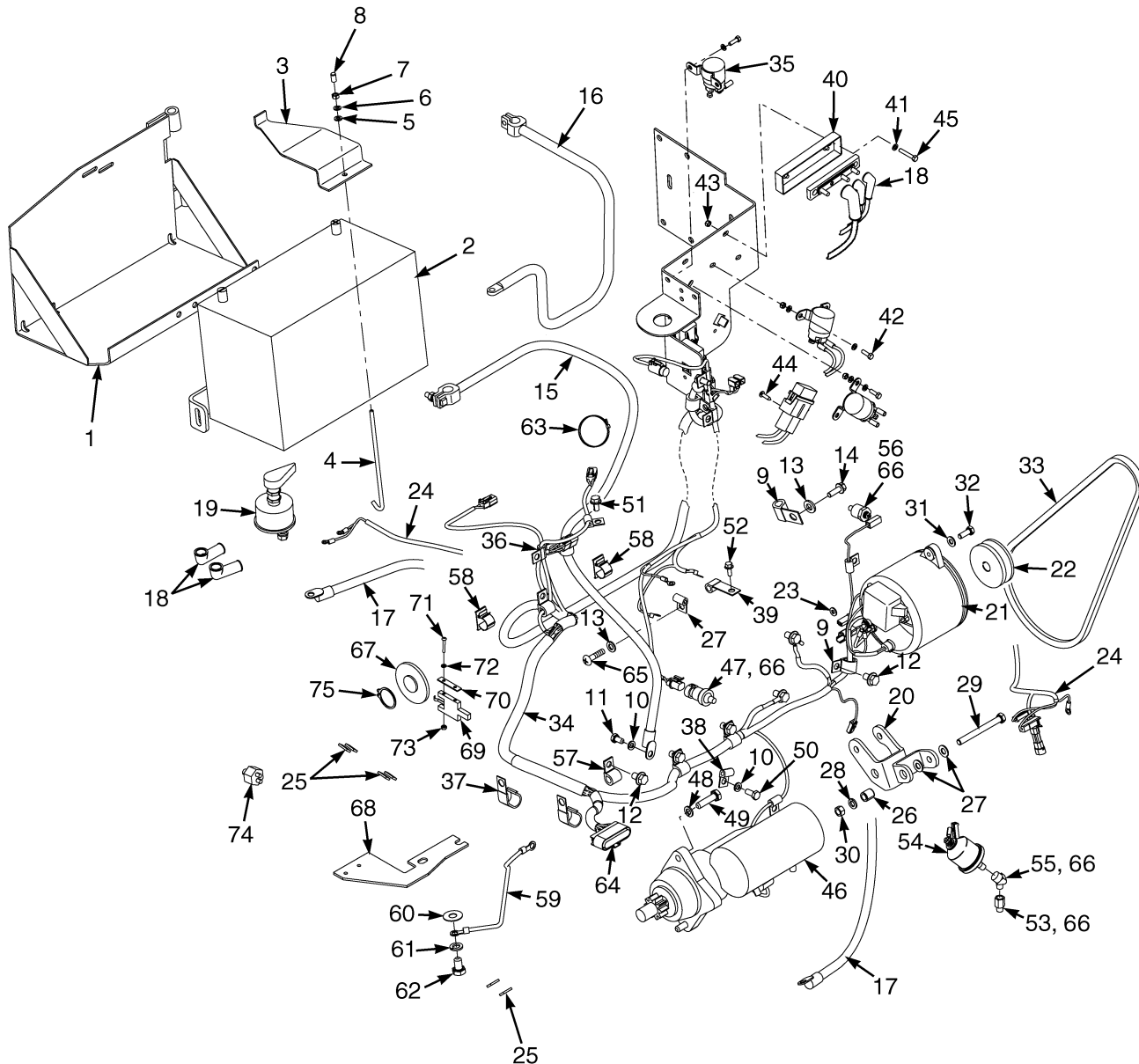
ITEM	PART NO.	DESCRIPTION	QTY
1	2067334	Battery Tray.....	1
2	1399332	Battery (Wet)	1
3	1399333	Battery Hold Down.....	1
4	1399335	Link	1
5	320156	Washer	1
6	292680	Lockwasher.....	1
7	136687	Nut	3
8	1326939	Cap	1
9	178119	Clamp	1
10	292681	Lockwasher.....	2
11	287851	Capscrew.....	1
12	1528778	Capscrew.....	6
13	320157	Washer	3
14	1527880	Capscrew.....	1
15	1397783	Battery Cable	1
16	1536272	Battery Cable	1
17	204223	Boot	3
18	1469598	Alternator	1
19	296359	Lockwasher.....	2
20	1527881	Capscrew.....	1
21	1345014	Sleeve	1
22	292682	Lockwasher.....	3
23	292524	Capscrew.....	1
24	2039256	V-Belt.....	1
25	2062212	Wire Harness (Engine) (☞ Figure 4-10)	1
26	1454967	Relay.....	3
27	164488	Clamp	2
28	325897	Clamp	2
29	124359	Clamp	5
30	188631	Clamp	1
31	1545154	Bus Bar (100 Amp)	1
32	320155	Washer	18
33	302246	Screw.....	7
34	302398	Locknut	9
35	227178	Screw.....	2
36	302250	Screw.....	2
37	1388721	Starter Motor (☞ Figure 4-9)	1
38	1330353	Sender (Oil Pressure)	1
39	292515	Capscrew.....	2
40	136681	Capscrew.....	1
41	1527879	Capscrew.....	3
42	1527876	Capscrew.....	1
43	1475493	Fitting (Adapter)	1
44	1514215	Oil Pressure Sender	1
45	12821	Fitting.....	1
46	1319190	Temperature Sender	1
47	128408	Clamp	6
48	1548432	Clamp	2
49	1493116	Wire Harness (Ground)	1
50	296408	Lockwasher.....	1
51	292683	Lockwasher.....	1

**ELECTRICAL SYSTEM
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
52	292526	Capscrew.....	1
53	2004005	Strap Clamp.....	1
54	1402809	Clip	1
55	283149	Capscrew.....	1
56	246108	Sealant	1
57	387455	Disc (Neutral Start)	1
58	1324557	Bracket.....	1
59	1320893	Switch	1
60	316132	Spacer	1
61	86510	Screw.....	2
62	16743	Lockwasher.....	2
63	15049	Nut	2
64	387867	Pressure Switch.....	1
65	209417	Snap Ring.....	1

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ELECTRICAL SYSTEM (Figure 4-6) TYPE DS



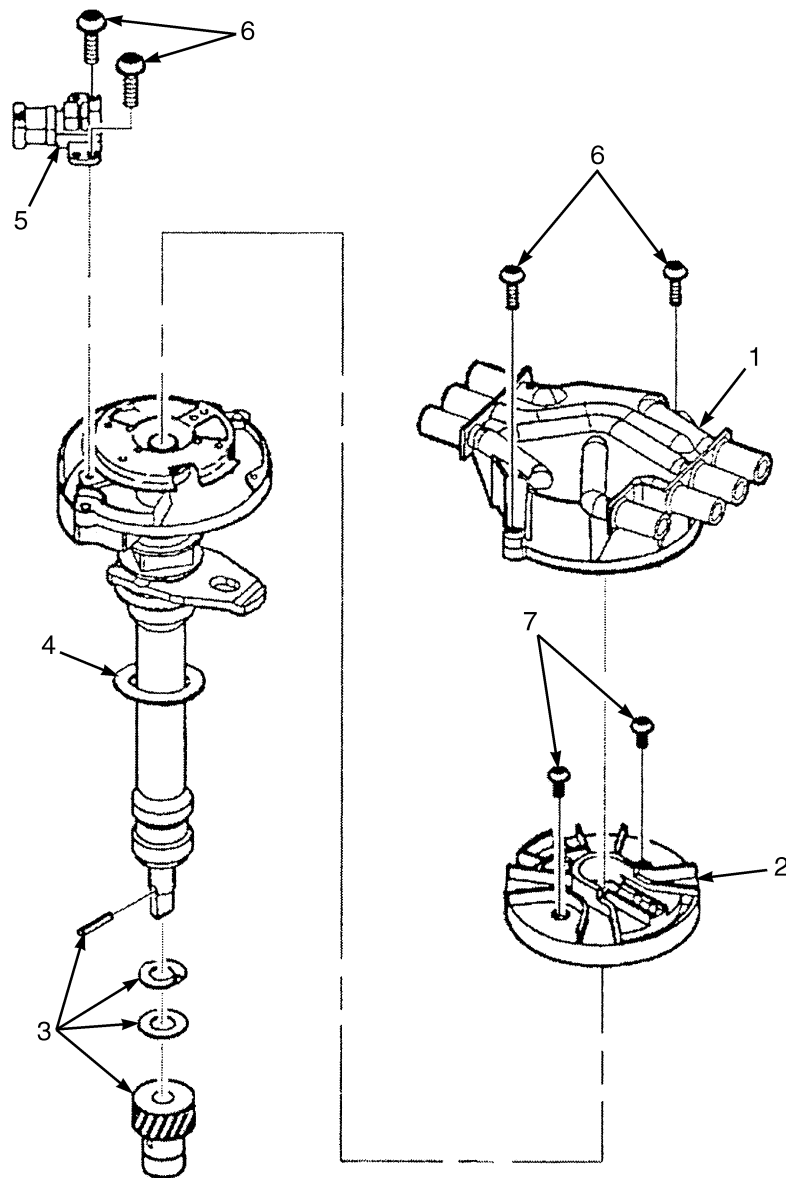
BP080187

**ELECTRICAL SYSTEM
TYPE DS**

ITEM	PART NO.	DESCRIPTION	QTY
1	2067334	Battery Tray.....	1
2	1399332	Battery (Wet)	1
3	1399333	Battery Hold Down.....	1
4	1399335	Link	1
5	320156	Washer	1
6	292680	Lockwasher.....	1
7	136687	Nut	3
8	1326939	Cap	1
9	178119	Clamp	1
10	292681	Lockwasher.....	2
11	287851	Capscrew.....	1
12	1528778	Capscrew.....	6
13	320157	Washer	3
14	1527880	Capscrew.....	1
15	1397783	Battery Cable	1
16	1397786	Battery Cable	1
17	1544677	Battery Cable	1
18	204223	Boot	1
19	1324517	Switch (Disconnect)	1
20	1555782	Bracket.....	1
21	1394001	Alternator (☞ Figure 4-8)	1
22	353291	Pulley.....	1
23	18500	Washer	1
24	2068496	Wire Harness (☞ Figure 4-13)	1
25	387869	Boot	7
26	1345014	Sleeve	1
27	15134	Washer	2
28	15156	Lockwasher.....	1
29	18543	Capscrew.....	1
30	15056	Nut	1
31	18515	Washer	2
32	18496	Capscrew.....	1
33	2039256	V-Belt.....	1
34	2062212	Wire Harness (Engine) (☞ Figure 4-10)	1
35	1454967	Relay.....	3
36	164488	Clamp	2
37	325897	Clamp	2
38	124359	Clamp	5
39	188631	Clamp	1
40	1545154	Bus Bar (100 Amp)	1
41	320155	Washer	18
42	302246	Screw.....	7
43	302398	Locknut	9
44	227178	Screw.....	2
45	302250	Screw.....	2
46	1388721	Starter Motor (☞ Figure 4-9)	1
47	1330353	Sender (Oil Pressure)	1
48	292682	Lockwasher.....	2
49	292515	Capscrew.....	2
50	136681	Capscrew.....	1
51	1527879	Capscrew.....	3

**ELECTRICAL SYSTEM
TYPE DS**

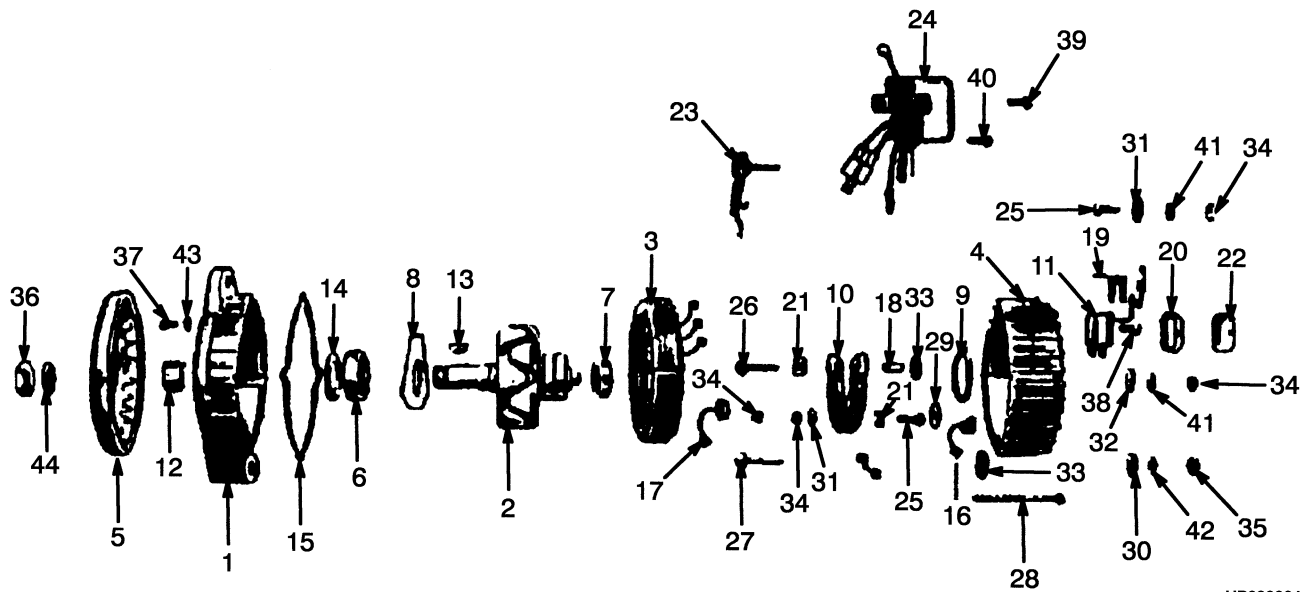
ITEM	PART NO.	DESCRIPTION	QTY
52	1527876	Capscrew.....	1
53	1475493	Fitting (Adapter).....	1
54	1514215	Oil Pressure Sender	1
55	12821	Fitting.....	1
56	1319190	Temperature Sender	1
57	128408	Clamp	6
58	1548432	Clamp	2
59	1493116	Wire Harness (Ground)	1
60	296408	Lockwasher.....	1
61	292683	Lockwasher.....	1
62	292526	Capscrew.....	1
63	2004005	Strap Clamp.....	1
64	1402809	Clip	1
65	283149	Capscrew.....	1
66	246108	Sealant	1
67	387455	Disc (Neutral Start)	1
68	1324557	Bracket.....	1
69	1320893	Switch	1
70	316132	Spacer	1
71	86510	Screw.....	2
72	16743	Lockwasher.....	2
73	15049	Nut	2
74	387867	Pressure Switch.....	1
75	209417	Snap Ring.....	1

DISTRIBUTOR ASSEMBLY (Figure 4-7)
4.3 L EPA COMPLIANT ENGINE

BP080184

ITEM	PART NO.	DESCRIPTION	QTY
	1559695	Distributor	1
1	1342528	Cap	1
2	1374329	Rotor	1
3	1559922	Gear Kit	1
4	1334423	Gasket	1
5	1559923	Sensor	1
6	1559924	Screw	4
7	1559925	Screw	2

ALTERNATOR (Figure 4-8) PRESTOLITE BRAND GS, LPS, DS

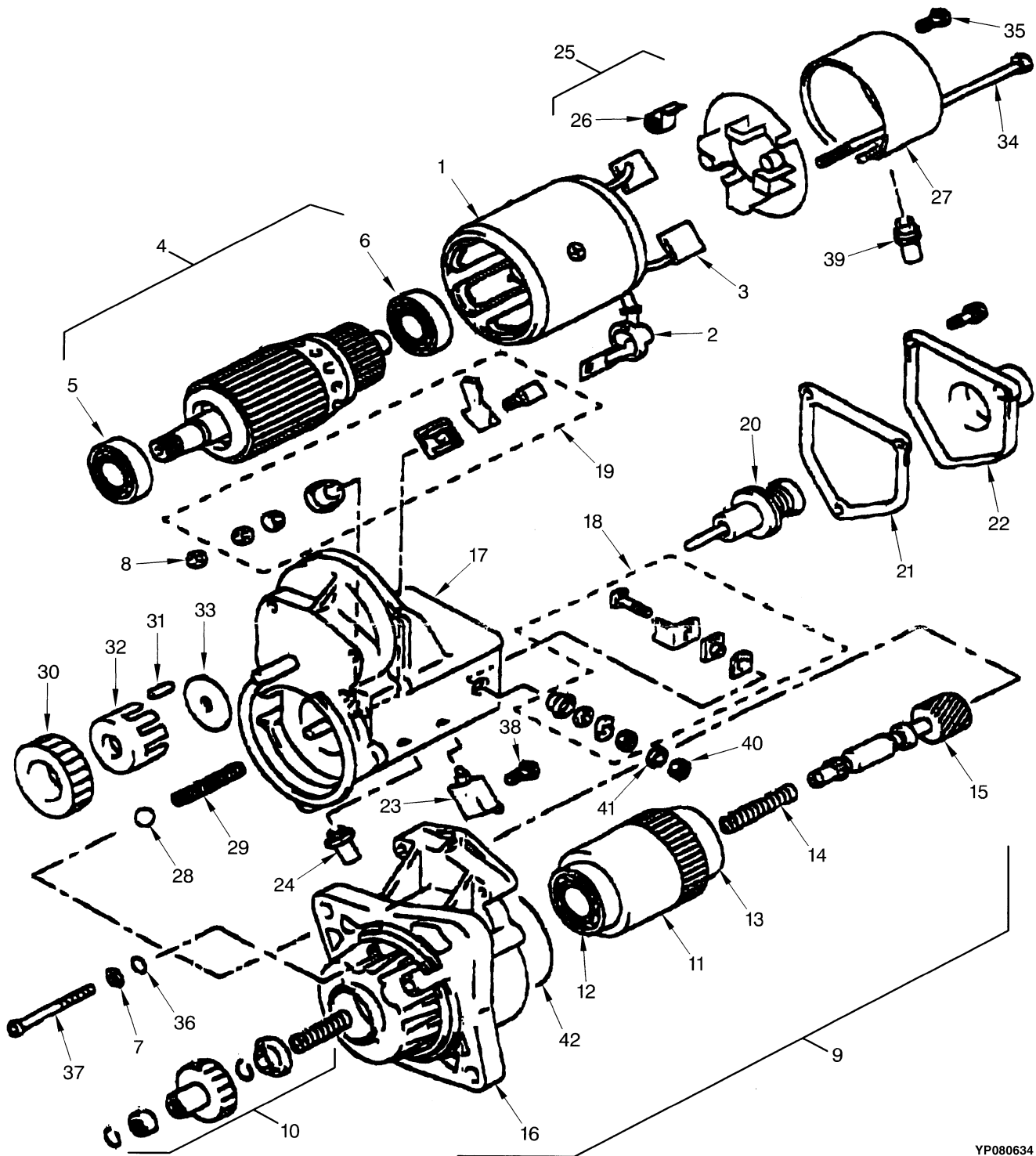


HP080034

ALTERNATOR PRESTOLITE BRAND GS, LPS, DS

ITEM	PART NO.	DESCRIPTION	QTY
	1394001	Alternator.....	1
1	1453351	Housing (Front) (Front).....	1
2	1453681	Rotor Assembly.....	1
3	1453682	Stator Assembly.....	1
4	295802	Housing (Rear) (Rear).....	1
5	225673	Fan.....	1
6	248128	Bearing (Front/Rear).....	1
7	386071	Bearing (Rear).....	1
8	226576	Retainer (Front).....	1
9	1371211	Retainer (Rear).....	1
10	226578	Heat Sink.....	1
11	2022534	Brush Assembly.....	1
12	1453352	Spacer (Fan).....	1
13	1453354	Key.....	1
14	1453358	Seal (Front).....	1
15	226582	Gasket.....	1
16	226583	Diode (Negative).....	1
17	226584	Diode (Positive).....	1
18	1371212	Sleeve.....	1
19	2022535	Insulation.....	1
20	1453387	Gasket (Cover).....	1
21	1371214	Insulator.....	1
22	2022538	Brush Cover.....	1
23	2022532	Diode.....	1
24	1453386	Voltage Regulator.....	1
25	1453361	Bolt.....	3
26	1453362	Bolt.....	1
27	1453363	Bolt.....	1
28	1453364	Bolt.....	4
29	1453365	Insulator.....	3
30	1453366	Insulator (Round).....	1
31	1453367	Insulator (Washer).....	4
32	1453368	Insulator (Washer).....	1
33	1453369	Insulator (Washer).....	1
33	1453370	Insulator (Washer).....	1
33	1453371	Insulator (Washer).....	1
34	1453680	Nut.....	2
34	1453373	Nut.....	3
35	1328516	Nut.....	1
36	1453375	Nut.....	1
37	1453376	Screw.....	3
38	1453377	Screw.....	2
39	1328521	Screw.....	2
40	1453379	Screw.....	2
41	1453381	Washer.....	2
42	1453382	Washer.....	1
43	1453383	Lockwasher.....	1
44	1453385	Lockwasher.....	1

STARTER (Figure 4-9) DIESEL TIER II

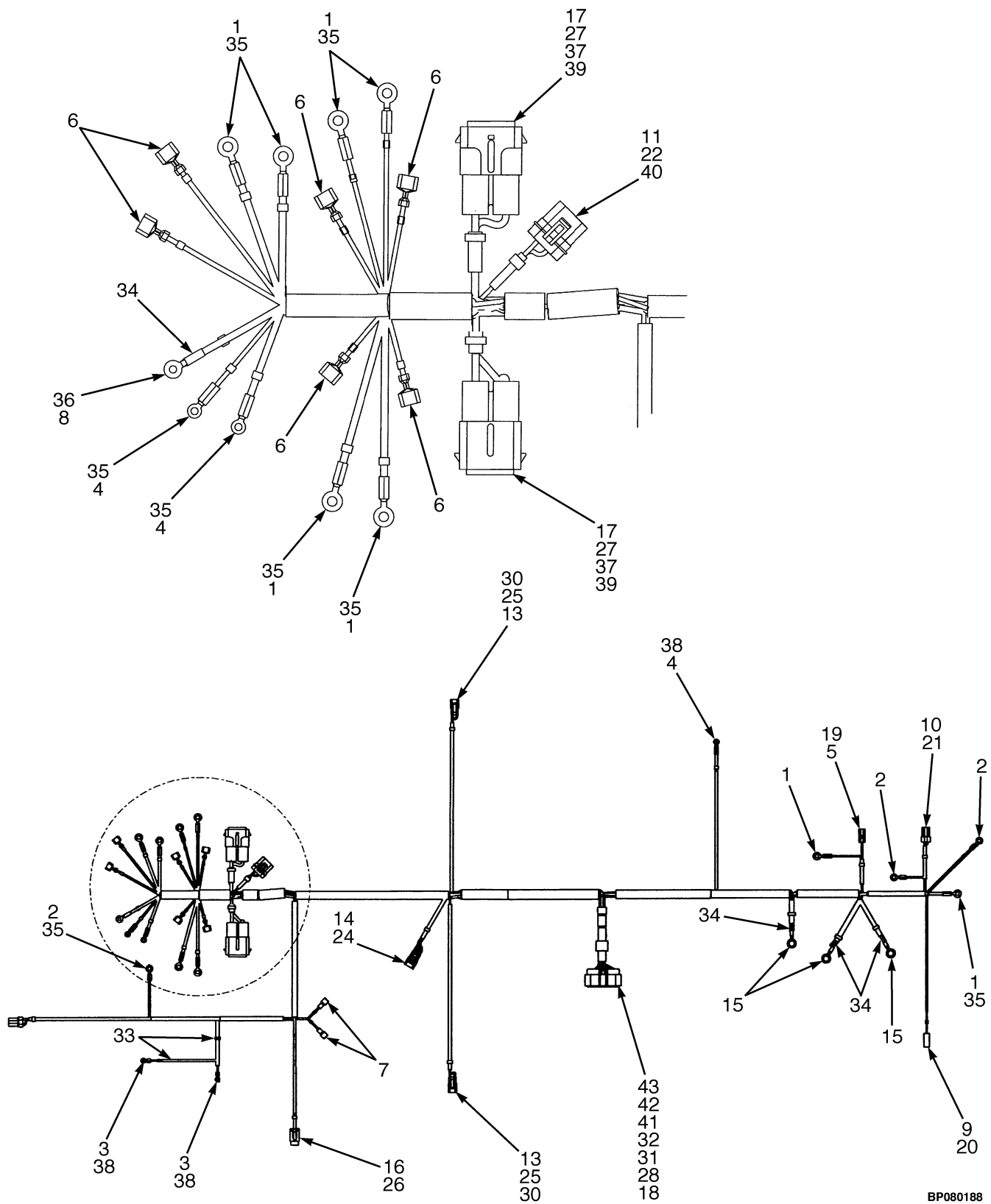


YP080634

**STARTER
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	1388721	Starter Motor.....	1
1	1462233	Yoke Assembly	1
2	1462234	Cover	1
3	1462235	Brush Kit.....	2
4	1462236	Armature	1
5	1462239	Bearing (Optional).....	1
5	1462238	Bearing.....	1
6	1462240	Bearing.....	1
7	1390163	Washer	3
8	1462273	Nut.....	1
9	1462241	Clutch Assembly.....	1
10	.....	Starter Kit.....	1
11	.....	Clutch Subassembly	1
12	.....	Bearing.....	1
13	.....	Bearing.....	1
14	.....	Spring (Compression Coil).....	1
15	.....	Shaft.....	1
16	.....	Housing.....	1
17	1462249	Switch Assembly	1
18	1462250	Terminal Kit (Terminal M)	1
19	1462251	Terminal Kit (Terminal C).....	1
20	1462252	Plunger	1
21	1462253	Gasket (Switch)	1
22	1462254	Cover (Solenoid)	1
23	1462255	Bolt (Terminal)	1
24	1462256	Bushing	1
25	1462257	Brush Holder Assembly.....	1
26	1462258	Spring.....	4
27	1462259	Cover (DE)	1
28	1462260	Ball	1
29	1462261	Spring.....	1
30	1462262	Pinion	1
31	1462263	Roller.....	5
32	1462264	Retainer.....	1
33	1462265	Retainer.....	1
34	1462266	Bolt	2
35	1462267	Screw	2
36	1390164	O-Ring.....	3
37	1462268	Screw	3
38	1390167	Screw	1
39	1462269	Cover.....	1
40	1462270	Nut.....	1
41	1462271	Lockwasher	1
42	1462272	Seal	1

WIRE HARNESS (ENGINE) (Figure 4-10) DIESEL TIER II



BP080188

**WIRE HARNESS (ENGINE)
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
	2062212	Wire Harness (Engine)	1
1	129888	Terminal.....	8
2	129894	Terminal.....	3
3	148605	Fitting.....	2
4	148610	Ring.....	3
5	181046	Connector.....	1
6	325789	Electrical Fitting (Female).....	6
7	367540	Fitting (Female)	2
8	806424	Terminal Ring	1
9	1301720	Connector Body.....	1
10	1323586	Connector.....	1
11	1330292	Connector.....	1
12	1330354	Connector.....	1
13	1330419	Connector.....	2
14	1330420	Connector.....	1
15	1354497	Terminal.....	3
16	1375782	Connector.....	1
17	1454860	Connector.....	2
18	1527523	Connector.....	1
19	134812	Blade	1
20	370730	Blade	1
21	1323576	Terminal.....	2
22	1330283	Terminal.....	2
23	1330355	Terminal.....	2
24	1330438	Socket	3
25	1330434	Terminal.....	4
26	1375783	Socket	1
27	1454828	Terminal.....	4
28	1402931	Plug	2
29	1330357	Secondary Lock.....	1
30	1330424	Secondary Lock.....	2
31	1402927	Terminal.....	7
32	1402926	Terminal.....	7
33	275493	Conduit.....	AR
34	222523	Heat Shrink Tube.....	AR
35	190383	Boot.....	10
36	204223	Boot.....	1
37	1454827	Seal	4
38	190382	Boot.....	3
39	1454862	Cover.....	2
40	1330293	Cover (Fuse)	1
41	1503334	Seal	13
42	1527274	Seal	1
43	1527305	Seal	1

The diagram illustrates a complex cable management system, likely for a vehicle, featuring a central vertical cable bundle and numerous peripheral components connected via various cable types and connectors. The components are labeled with numbers 1 through 28:

- 1:** A long, multi-pin connector or cable assembly at the top left.
- 2:** Multiple small, rectangular connectors or components distributed across the top and middle sections.
- 3, 4, 5, 6, 7, 8, 9:** Various rectangular connectors and cable segments branching from the top.
- 10:** Small, cylindrical components connected to the central bundle.
- 11:** A small rectangular component connected to the central bundle.
- 12:** A small, cylindrical component connected to the central bundle.
- 13:** A small, rectangular component connected to the central bundle.
- 14:** A small, rectangular component connected to the central bundle.
- 15:** A small, rectangular component connected to the central bundle.
- 16:** Small, cylindrical components connected to the central bundle.
- 17:** A large, circular connector or component at the bottom right.
- 18, 19, 20:** Small, rectangular components connected to the central bundle.
- 21, 22, 23:** Small, rectangular components connected to the central bundle.
- 24:** Small, cylindrical components connected to the central bundle.
- 25:** A small, rectangular component connected to the central bundle.
- 26:** A small, rectangular component connected to the central bundle.
- 27, 28:** Small, rectangular components connected to the central bundle.

The diagram shows a dense network of cables and connectors, with a central vertical cable bundle acting as the main distribution point. The components are connected to this bundle via various cable types, including multi-pin connectors, cylindrical components, and rectangular components. The labels 1 through 28 identify the specific components and cable segments.

BP080078

WIRE HARNESS MODULE SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
	2063002	Wire Harness (Module) (Type GS, LPS, DS).....	1
	2063000	Wire Harness (Module) (Gas, LPG, and Diesel)	1
1	.....	Connector Assembly (Fuse Box).....	1
1	1484681	Fuse Box (10-Way)	1
1	1484682	Secondary Lock	1
1	1496885	Terminal (Positions 1, 3, 5, 7).....	4
1	1490250	Bridge Piece (2-Way) (Positions 9, 11)	2
1	1496884	Bridge Piece (Positions 13, 15, 17).....	3
1	1389479	Electrical Fitting.....	10
1	1489957	Connector (Position 12)	1
1	370647	Fuse (10 Amp) (Positions 1, 6, 7, 8, 9)	5
1	1320669	Fuse (30 Amp) (Positions 2, 3)	2
1	370648	Fuse (20 Amp) (Position 4)	1
1	1310630	Fuse (15 Amp) (Positions 5, 10)	2
2	1489956	Clip.....	5
3	.....	Connector Assembly	1
3	1484684	Relay Base.....	1
3	1389479	Electrical Fitting.....	2
3	1489957	Connector	2
3	1347114	Relay	1
4	.....	Connector Assembly (Forward Relay).....	1
5	1484683	Relay Base.....	1
5	1489957	Connector	2
5	1484719	Terminal	2
5	2035581	Relay	2
5	1489957	Connector	2
5	1484719	Terminal	1
5	2035581	Relay	1
5	.....	Connector Assembly (Horn Relay).....	1
5	1484683	Relay Base.....	1
5	1389479	Electrical Fitting.....	2
5	1484719	Terminal	2
5	2035581	Relay	1
5	1489957	Connector	2
5	1484719	Terminal	2
5	2035581	Relay	1
6	.....	Connector Assembly (Reverse Light Relay).....	1
6	1484683	Relay Base.....	1
6	1489957	Connector	2
6	1484719	Terminal	2
6	2035581	Relay	1
6	1489957	Connector (Shutdown)	2
6	1484719	Terminal	2
6	2035581	Relay	1
7	.....	Connector Assembly (Cab Power Relay)	1
7	1484683	Relay Base.....	1
7	1389479	Electrical Fitting.....	2
7	1484719	Terminal	2
7	2035581	Relay	1
7	1389479	Electrical Fitting (Light Relay)	2

WIRE HARNESS MODULE SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
7	1484719	Terminal	2
7	2035581	Relay	1
8	.....	Connector Assembly (Turn Signal Relay).....	1
8	1484684	Relay Base.....	1
8	1489957	Connector	2
8	.....	Flasher	1
9	.....	Connector Assembly (Brake Light Relay).....	1
9	1484683	Relay Base.....	1
9	1489957	Connector	2
9	1484719	Terminal	2
9	2035581	Relay	1
9	.....	Spare	1
10	1497265	Housing.....	4
10	1497262	Terminal	4
11	.....	Connector Assembly (Thermostat).....	1
11	1484661	Housing (Receptacle)	1
11	1484707	Terminal (56 Series).....	1
11	1484375	Terminal	1
12	1497265	Housing (Horn Switch)	1
12	1497262	Terminal	1
13	.....	Connector Assembly	1
13	1497294	Housing.....	1
13	1497300	Retainer	1
13	1484656	Terminal (Socket)	3
13	1484597	Seal.....	3
14	.....	Connector Assembly (Horn).....	1
14	1402878	Connector	1
14	1498493	Retainer	1
14	1498492	Seal.....	2
14	1482664	Terminal	2
15	.....	Connector Assembly (Brake Reservoir)	1
15	1402922	Connector	1
15	1493436	Terminal Socket.....	2
15	1479109	Wire Seal	2
16	1497265	Housing.....	4
16	1497262	Terminal	4
17	.....	Connector Assembly (Engine Harness)	1
17	1497228	Terminal (Nut)	1
17	1496926	Terminal (Positions 1, 2).....	2
17	1496925	Terminal (Positions C, D, F, G, H, J, K).....	7
17	1496924	Terminal (Positions A, B, E, L, M, N).....	6
18	1497290	Housing.....	1
19	.....	Connector Assembly (Optional Lighting).....	1
19	1496886	Housing.....	1
19	1497302	Retainer	1
19	1484656	Terminal (Socket)	4
19	1484597	Seal.....	4
20	.....	Connector Assembly (Reverse Alarm)	1
20	1497293	Housing.....	1
20	1497298	Retainer	1

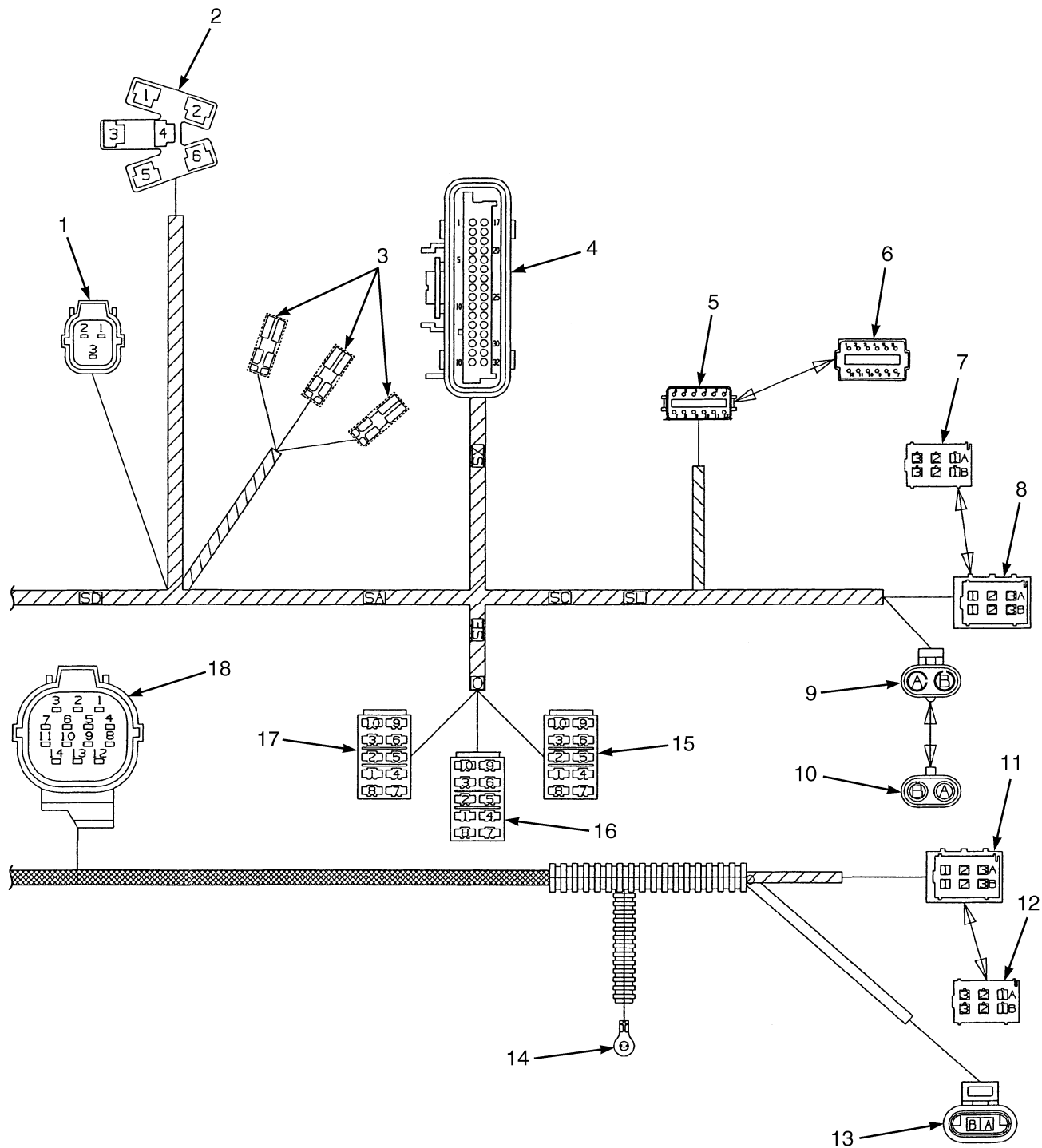
WIRE HARNESS MODULE SHEET 1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY
20	1484656	Terminal (Socket)	2
20	1484597	Seal.....	2
21	1497288	Housing.....	1
21	1484611	Seal.....	2
22	.....	Connector Assembly (LH Rear Light).....	1
22	1496791	Housing.....	1
22	1496788	Terminal	5
23	.....	Connector Assembly	1
24	1497259	Terminal	2
24	1484651	Cover.....	2
25	.....	Connector Assembly (Fuel Sender)	1
25	1498474	Housing.....	1
25	1498419	Terminal	2
25	1498496	Seal.....	2
26	.....	Connector Assembly (Reverse Diode)	1
26	1484687	Housing (Socket).....	1
26	1484718	Terminal (Socket)	2
26	1490252	Diode (Single)	1
27	1496790	Housing.....	1
28	.....	Connector Assembly (LH Front Light)	1
28	1496791	Housing.....	1
28	1496788	Terminal	5

WIRE HARNESS (Figure 4-12)

MODULE

SHEET 2 OF 2



BP080079

WIRE HARNESS MODULE SHEET 2 OF 2

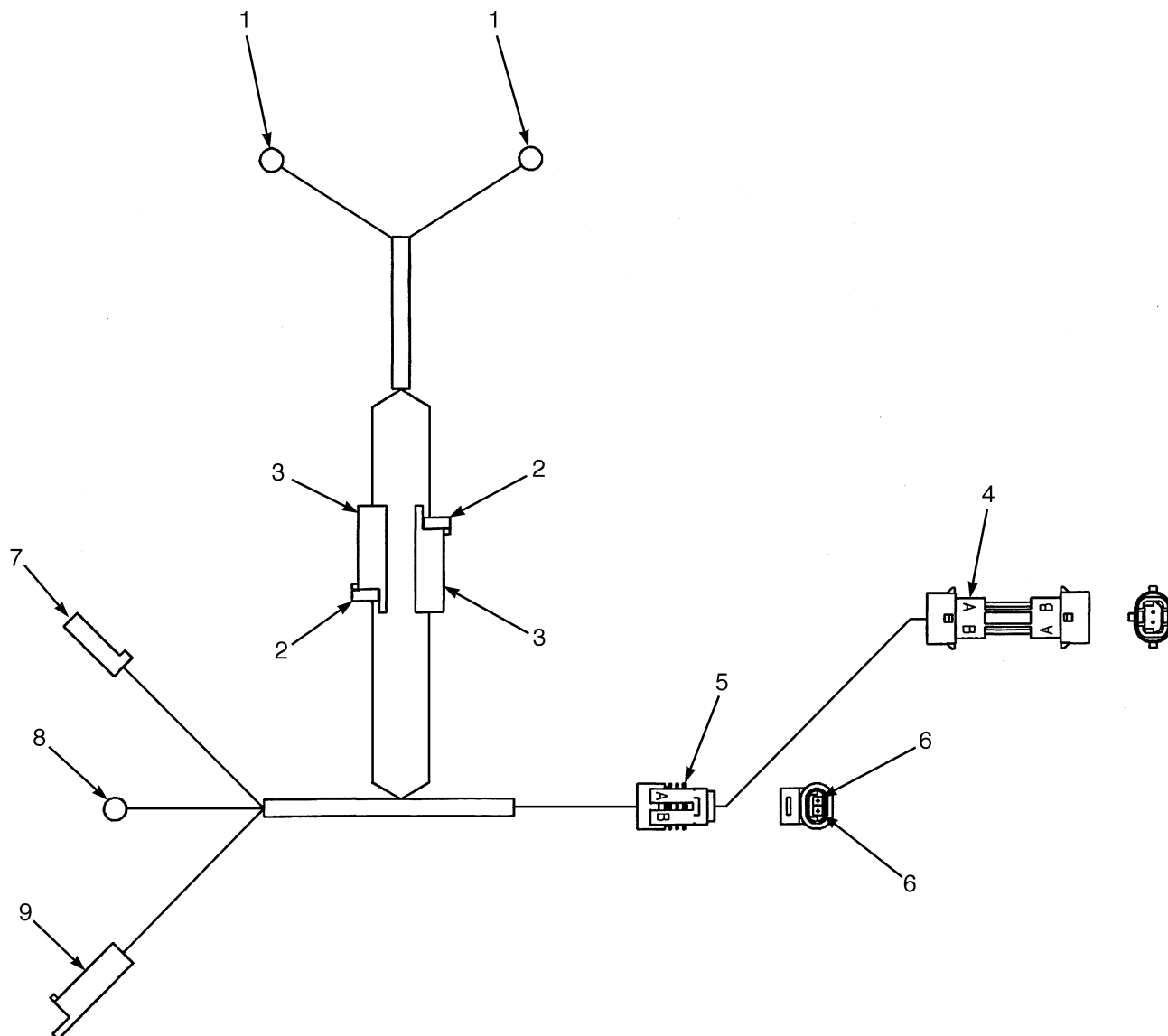
ITEM	PART NO.	DESCRIPTION	QTY
	2063002	Wire Harness (Module) (Type GS, LPS, DS).....	1
	2063000	Wire Harness (Module) (Gas, LPG, and Diesel)	1
1	.....	Connector Assembly (Forward Switch)	1
1	1497294	Housing.....	1
1	1497300	Retainer	1
1	1484656	Terminal (Socket)	3
1	1484597	Seal.....	3
2	.....	Connector Assembly (Ignition Switch).....	1
2	1484660	Housing (Ignition Switch)	1
2	1484707	Terminal (56 Series).....	2
2	1484375	Terminal	1
3	.....	Connector Assembly (Indicator Switch)	3
3	1493444	Terminal	3
3	1493445	Cover.....	3
4	.....	Connector Assembly (Cluster)	1
4	1484670	Retainer	1
4	1471960	Strain Relief	1
4	1484672	Insert.....	1
4	1484671	Seal.....	1
4	1484710	Terminal	21
4	1352105	Plug.....	11
5	.....	Connector Assembly (High/Low Shift).....	1
5	1484357	Housing (Socket).....	1
5	1484358	Retainer (Socket)	1
5	1330439	Plug (Positions 6, 9, 10)	3
5	1330438	Socket	9
6	.....	Connector Assembly (Mating Half, Item 5).....	1
6	1330439	Plug.....	12
6	1484720	Connector	1
7	.....	Connector Assembly (Mating Half, Item 8).....	1
7	1496790	Housing.....	1
8	.....	Connector Assembly (RH Front Light).....	1
8	1496791	Housing.....	1
8	1496788	Terminal	5
9	.....	Connector Assembly (Cab Power)	1
9	1498474	Housing.....	1
9	1498419	Terminal	2
9	1498496	Seal.....	2
10	.....	Connector Assembly (Mating Half, Item 9).....	1
10	1498422	Connector Housing	1
11	.....	Connector Assembly (RH Rear Light)	1
11	1496791	Housing.....	1
11	1496788	Terminal	5
12	.....	Connector Assembly (Mating Half, Item 11).....	1
12	1496790	Housing.....	1
13	.....	Connector Assembly	1
13	1493460	Housing.....	1
13	1354237	Terminal	2
14	.....	Connector Assembly	1
14	1493458	Fitting (Cluster)	1

**WIRE HARNESS
MODULE
SHEET 2 OF 2**

ITEM	PART NO.	DESCRIPTION	QTY
14	1484383	Heat Shrink Tube	1
15	.....	Connector Assembly (Transmission Lock)	1
15	1484555	Housing (Switch).....	1
15	1497262	Terminal (Positions 2, 3, 7, 8).....	4
16	.....	Connector Assembly (Rear Lights)	1
16	1484555	Housing (Switch).....	1
16	1497262	Terminal	4
17	.....	Connector Assembly (Front Lights)	1
17	1484555	Housing (Switch).....	1
17	1497262	Terminal	6
18	.....	Connector Assembly (Transmission Harness)	1
18	1484654	Housing (Socket).....	1
18	1484655	Retainer (Socket)	1
18	1484656	Terminal (Socket)	14
18	1484597	Seal	14

[illegible]

WIRE HARNESS (Figure 4-13) SEALED ALTERNATOR



BP080204

**WIRE HARNESS
SEALED ALTERNATOR**

ITEM	PART NO.	DESCRIPTION	QTY
	2068496	Wire Harness.....	1
1	.....	Connector Assembly (Disconnect Switch)	2
1	129887	Ring.....	1
1	190383	Boot.....	1
2	.....	Connector Assembly	2
2	181046	Connector	1
2	134812	Blade.....	1
3	.....	Connector Assembly	2
3	181045	Connector	1
3	134810	Blade.....	1
4	1469606	Connector (Engine Harness).....	1
5	.....	Connector Assembly	1
5	1323586	Connector	1
6	1323576	Terminal	2
7	.....	Connector Assembly (Alternator EX)	1
7	181046	Connector	1
7	134812	Blade.....	1
8	.....	Connector Assembly (Alternator 3DA)	1
8	148610	Ring.....	1
8	190383	Boot.....	1
9		Connector Assembly (Alternator FS).....	1
9	181045	Connector	1
9	134810	Blade.....	1

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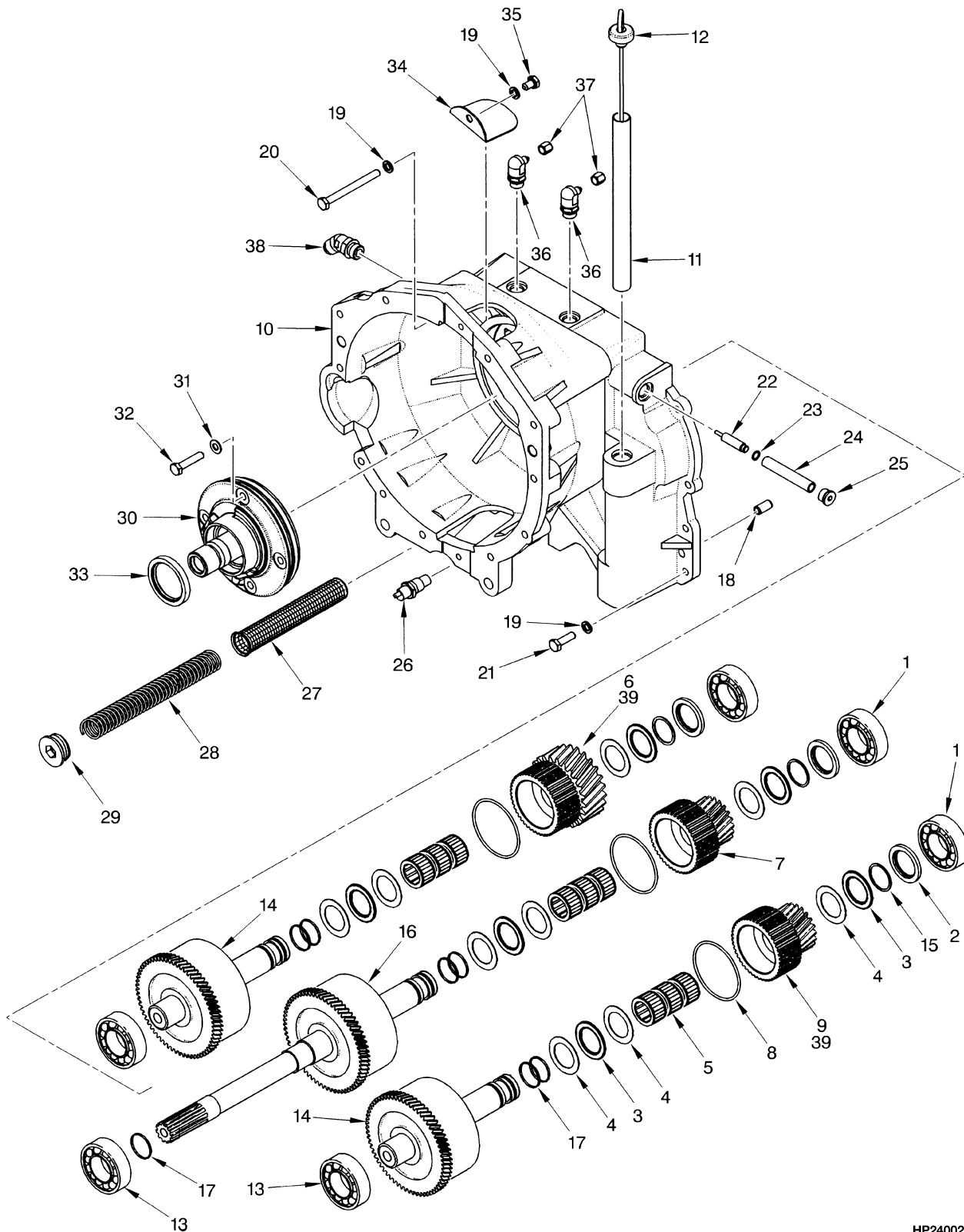
5	TRANSMISSION	
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SECTION 5 TRANSMISSION

DESCRIPTION	PAGE
CONTROL VALVE TRANSMISSION.....	5-16
DIRECTIONAL CLUTCH FORWARD.....	5-14
FLYWHEEL AND TORQUE CONVERTER	5-10
HIGH AND LOW VALVE	5-19
INPUT CLUTCH REVERSE.....	5-12
MANIFOLD VALVE	5-18
TRANSMISSION 1 OF 2	5-2
2 OF 2	5-6
TRANSMISSION LINES.....	5-20
TRANSMISSION MOUNT	5-22

TRANSMISSION (Figure 5-1)

1 OF 2



HP240025

TRANSMISSION**1 OF 2****KEY:****A: Single Speed****B: Two Speed**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488597	Transmission Assembly (T86).....	1	1
	1488600	Transmission Assembly (T88).....	..	1
	1488601	Transmission Assembly (T89).....	..	1
1	41308	Bearing.....	2	3
2	1396053	Thrust Washer.....	2	3
3	346731	Needle Bearing.....	4	6
4	346696	Thrust Washer.....	6	9
5	346730	Needle Bearing.....	6	9
6	1394786	Gear (Clutch Output).....	..	1
7	1394788	Gear (Clutch Output).....	..	1
8	1386958	O-Ring.....	2	3
9	1394787	Gear (Clutch Output).....	..	1
10	1394799	Housing.....	..	1
10	1394798	Housing.....	1	..
11	1388752	Tube (Dipstick).....	1	1
12	1388753	Dipstick.....	1	1
13	41208	Bearing.....	2	3
14	1488604	Clutch Pack Assembly (Directional) (☞ Figure 5-5)	1	2
15	346675	Snap Ring.....	2	3
16	1488602	Clutch Pack Assembly (Input) (☞ Figure 5-4)	1	1
17	1394794	Ring.....	5	7
18	186420	Pin (Single Speed).....	4	4
19	292682	Lockwasher.....	16	16
20	334421	Capscrew.....	4	4
21	287860	Capscrew.....	10	10
22	1388856	Valve Spool.....	1	1
23	1394714	Snap Ring.....	1	1
24	1388857	Spring.....	1	1
25	235691	Fitting.....	1	1
25	16484	O-Ring.....	1	1
26	1322627	Switch (Oil Temperature Warning) (Transmission)	1	1
27	346680	Screen.....	1	1
28	1388993	Spring (Screen).....	1	1
29	188210	Fitting.....	1	1
29	16983	O-Ring.....	1	1
30	1320018	Charge Pump.....	1	1
30	373950	O-Ring.....	1	1
30	1322333	Bushing.....	1	1
31	380524	Washer.....	1	1
32	292517	Capscrew.....	1	1
33	1498807	Oil Seal (Double Lip).....	1	1
34	1388901	Plate.....	2	2
35	292513	Capscrew.....	2	2
36	162155	Fitting.....	2	2
36	16484	O-Ring.....	1	1
37	16923	Fitting.....	2	2

TRANSMISSION

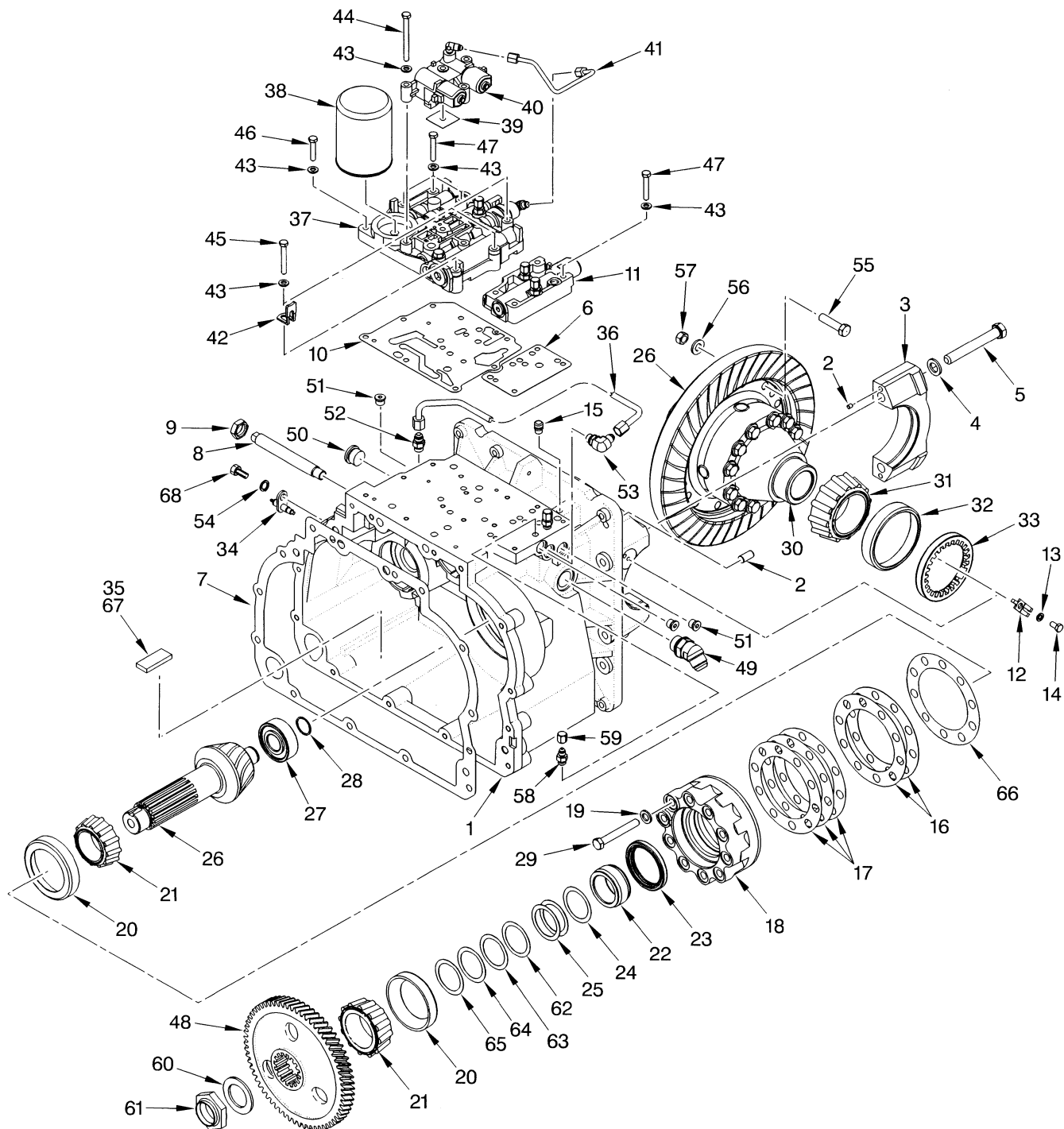
1 OF 2

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
38	16569	Fitting.....	1	1
38	16485	O-Ring.....	1	1
39	1394789	Gear (Output)	2	..

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TRANSMISSION (Figure 5-2)

2 OF 2



BP240023

TRANSMISSION
2 OF 2**KEY:****A: Single Speed****B: Two Speed**

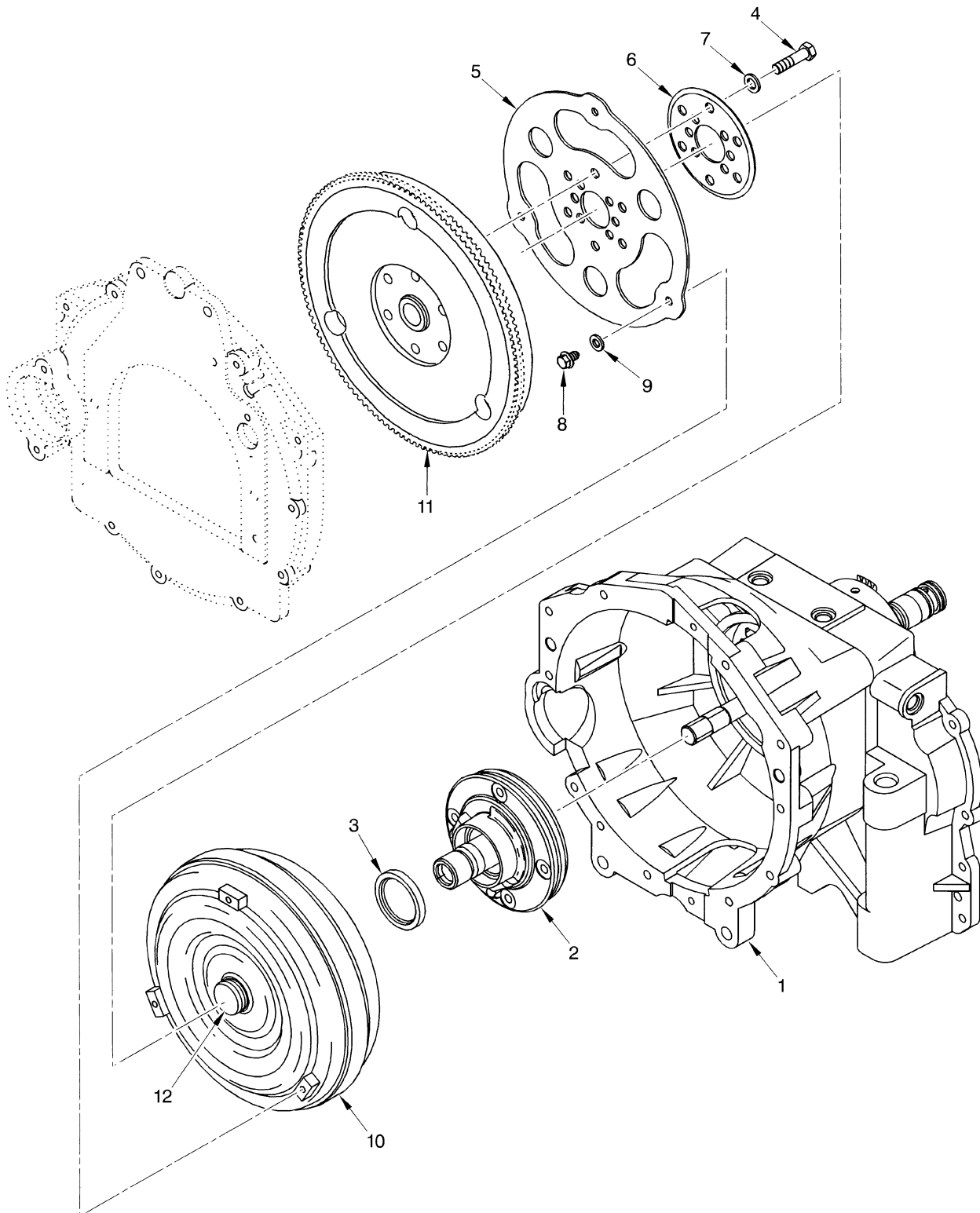
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488597	Transmission Assembly (T86).....	1	..
	1488600	Transmission Assembly (T88).....	..	1
	1488601	Transmission Assembly (T89).....	..	1
1	1388869	Housing	1	..
1	1388870	Housing	..	1
2	234038	Dowel Pin	4	4
3	1378259	Bearing Cap	2	2
4	296426	Washer (Hardened)	4	4
5	293697	Capscrew	4	4
6	1394709	Gasket	..	1
7	1388802	Gasket (Cover)	1	1
8	352321	Thrust Screw	1	1
9	1399455	Jam Nut	1	1
10	1386940	Gasket (Control Valve)	1	1
11	1388612	Valve Assembly (☞ Figure 5-8)	..	1
12	334447	Lock Plate	2	2
13	292681	Lockwasher	2	2
14	287851	Capscrew	2	2
15	21420	Plug	1	1
16	1388697	Shim (0.020 in.)	AR	AR
17	1388698	Shim (0.007 in.)	AR	AR
18	1388678	Carrier Housing	1	1
19	296422	Washer	10	10
20	200972	Bearing Cup	2	2
21	143004	Bearing Cone	2	2
22	1388677	Spacer	1	1
23	1394707	Oil Seal	1	1
24	1385060	Shim (0.356 in.)	AR	AR
25	1385065	Shim (0.635 in.)	AR	AR
26	1397852	Hypoid Gear Set (1830 mm Short Wheel Base)	1	1
26	1397851	Hypoid Gear Set (2100 mm Long Wheel Base)	1	1
27	1388680	Bearing	1	1
28	1394800	Snap Ring	1	1
29	293657	Capscrew	10	10
30	1476426	Differential Assembly (☞ Figure 6-2)	1	1
31	271479	Bearing Cone	2	2
32	30162	Bearing Cup	2	2
33	1388735	Nut	2	2
34	1388804	Speed Sensor	..	1
35	334560	Magnet	1	1
36	1388801	Tube	..	1
37	1466123	Control Valve (☞ Figure 5-6)	1	1
38	1328691	Filter	1	1
39	1388573	Gasket	1	1
40	1400159	Manifold Valve (☞ Figure 5-7)	1	1
41	1302973	Tube	1	1

TRANSMISSION
2 OF 2

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
42	1385873	Strap.....	1	1
43	320157	Washer	1	1
44	346656	Capscrew	4	4
45	136704	Capscrew	3	3
46	292508	Capscrew	1	1
47	292509	Capscrew	..	4
48	1385489	Gear (Output)	..	1
48	1388747	Gear (Output)	1	..
49	201782	Fitting.....	1	1
49	16486	O-Ring.....	1	1
50	222444	Fitting.....	..	1
50	16486	O-Ring.....	..	1
51	222443	Fitting.....	1	3
51	16483	O-Ring.....	1	1
52	16540	Fitting.....	..	1
52	16483	O-Ring.....	..	1
53	16558	Fitting.....	..	1
53	16483	O-Ring.....	..	1
54	292680	Lockwasher	..	1
55	1466438	Capscrew	18	18
56	221771	Washer	18	18
57	278326	Nut.....	18	18
58	17753	Fitting.....	2	..
58	16482	O-Ring.....	1	..
58	222380	Fitting.....	..	3
58	16482	O-Ring.....	..	1
59	16923	Fitting.....	2	3
60	1388695	Washer	1	1
61	1390101	Nut.....	1	1
62	1385061	Shim (0.381 in.)	AR	AR
63	1385062	Shim (0.406 in.)	AR	AR
64	1385063	Shim (0.508 in.)	AR	AR
65	1385064	Shim (0.559 in.)	AR	AR
66	1388699	Shim (0.005 in.)	AR	AR
67	264159	Adhesive.....	AR	AR
68	148962	Capscrew	..	1

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FLYWHEEL AND TORQUE CONVERTER (Figure 5-3)

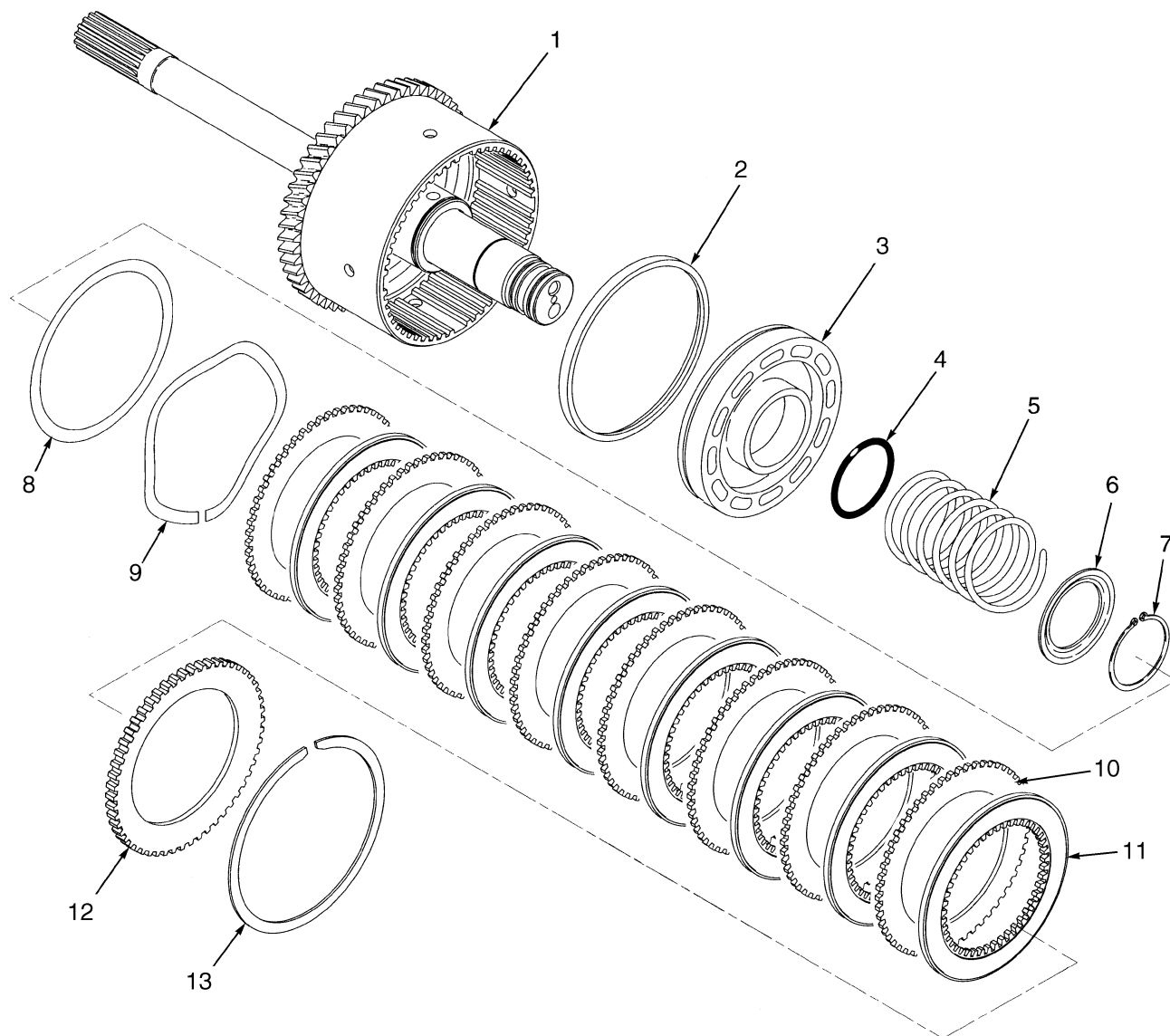


BP240024

FLYWHEEL AND TORQUE CONVERTER**KEY:****A: Single Speed****B: Two Speed**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488597	Transmission Assembly (T86).....	1	..
	1488600	Transmission Assembly (T88).....	..	1
	1488601	Transmission Assembly (T89).....	..	1
1	1394798	Housing	1	..
1	1394799	Housing	..	1
2	1320018	Charge Pump	1	1
2	1322333	Bushing	1	1
2	373950	O-Ring.....	1	1
3	1498807	Oil Seal (Double Lip)	1	1
4	289867	Bolt	8	8
5	1397689	Flexplate (Diesel)	1	1
6	1388750	Washer	1	1
7	296422	Washer	6	6
8	1397804	Bolt	3	3
9	296420	Washer	3	3
10	1503453	Torque Converter	1	1
11	1388705	Flywheel Assembly (Diesel).....	1	1
11	195856	Ring Gear	1	1
11	1388706	Flywheel	1	1
11	1399298	Flywheel (Gasoline and LPG).....	1	1
12	251979	Lubricant.....	AR	AR

INPUT CLUTCH (Figure 5-4) REVERSE

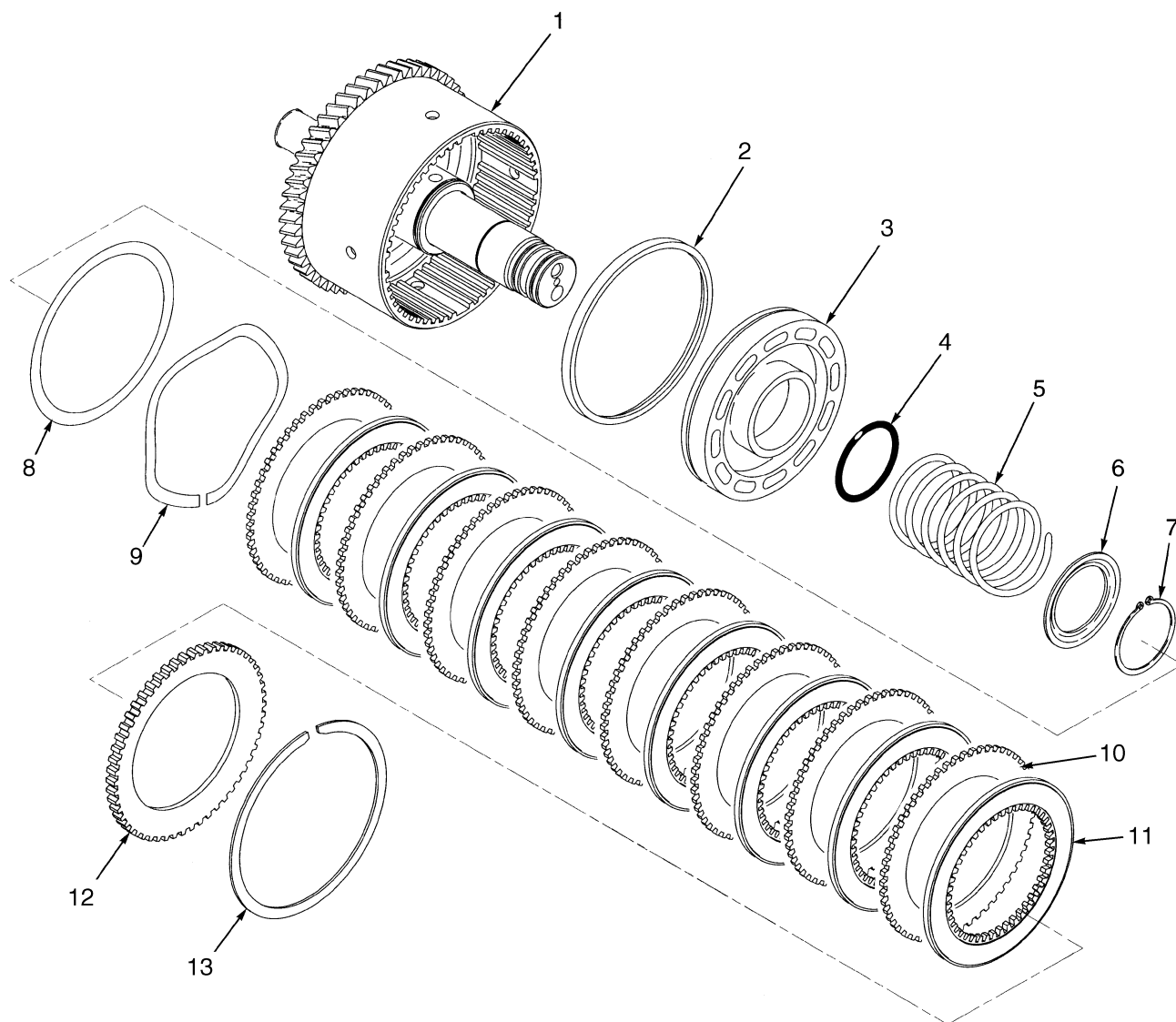


BP240026

**INPUT CLUTCH
REVERSE****KEY:****A: Two Speed****B: Single Speed**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488602	Clutch Pack Assembly (Input, Reverse)	1	1
1	1396064	Shaft Assembly	1	1
2	334402	Seal	1	1
3	1523953	Piston	1	1
4	1394879	O-Ring	1	1
5	1394882	Spring	1	1
6	1394893	Guide (Spring)	1	1
7	1394912	Snap Ring	1	1
8	1515680	Back-Up Washer	1	1
9	1523551	Wave Spring	1	1
10	1387235	Plate (Separator)	8	8
11	1469301	Plate (Friction)	8	8
12	1394881	Pressure Plate (0.248-0.252 in.) (Shimming)	1	1
12	1487201	Pressure Plate (0.272-0.276 in.) (Shimming) (Optional)	1	1
12	1487202	Pressure Plate (0.220-0.224 in.) (Shimming, Stepped) (Optional)	1	1
12	1545871	Pressure Plate (0.201-0.205 in.) (Shimming, Stepped) (Optional)	1	1
13	334475	Snap Ring	1	1

DIRECTIONAL CLUTCH (Figure 5-5) FORWARD

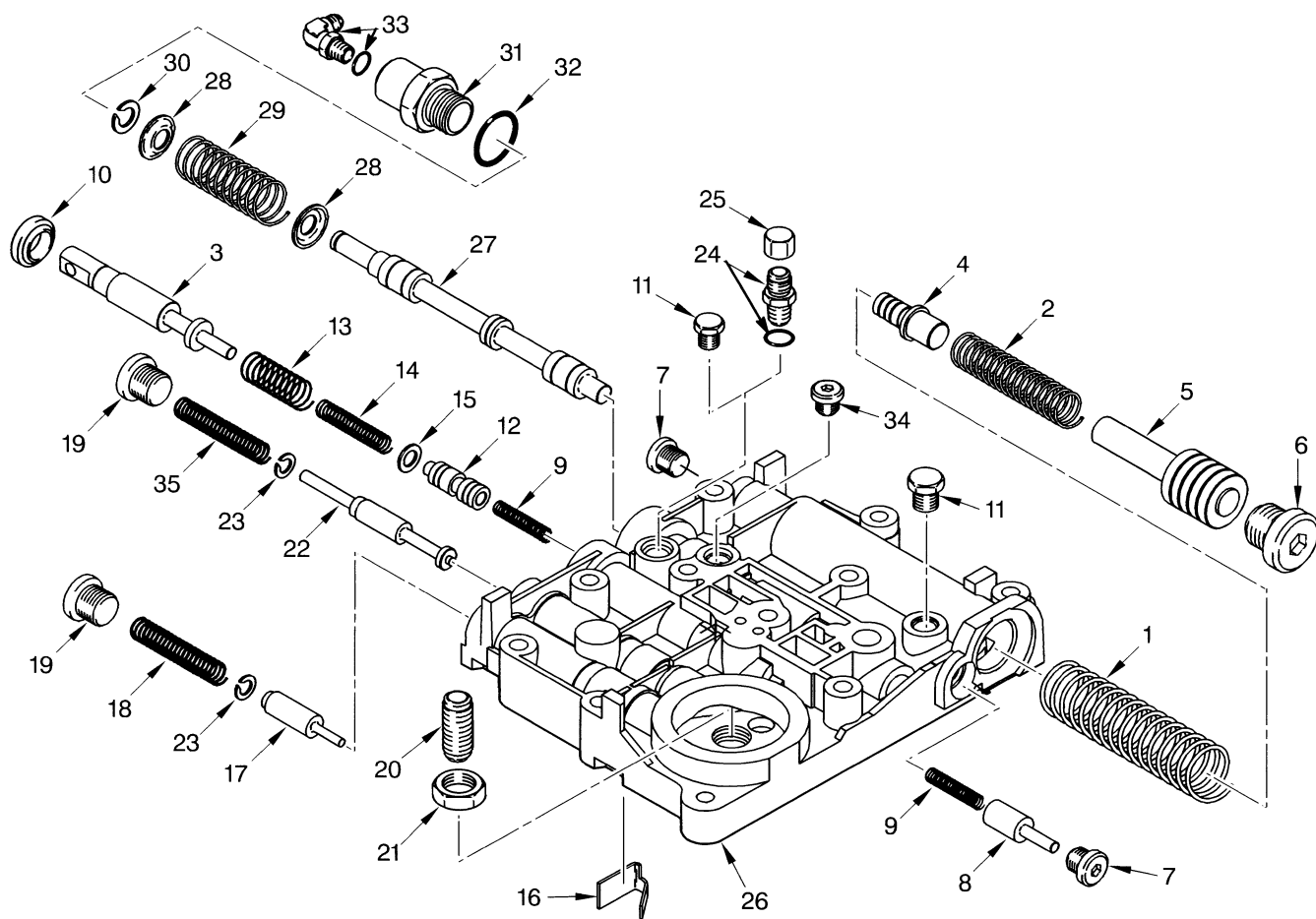


BP240027

**DIRECTIONAL CLUTCH
FORWARD****KEY:****A: Single Speed****B: Two Speed**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488604	Clutch Pack Assembly (Directional, Forward)	1	2
1	1396065	Shaft Assembly	1	1
2	334402	Seal	1	1
3	1523953	Piston	1	1
4	1394879	O-Ring	1	1
5	1394882	Spring	1	1
6	1394893	Guide (Spring)	1	1
7	1394912	Snap Ring	1	1
8	1515680	Back-Up Washer	AR	AR
9	1523551	Wave Spring	1	1
10	1387235	Plate (Separator)	8	8
11	1469301	Plate (Friction)	8	8
12	1394881	Pressure Plate (0.248-0.252 in.) (Shimming)	1	1
12	1487201	Pressure Plate (0.272-0.276 in.) (Shimming) (Optional)	1	1
12	1487202	Pressure Plate (0.220-0.224 in.) (Shimming, Stepped) (Optional)	1	1
12	1545871	Pressure Plate (0.201-0.205 in.) (Shimming, Stepped) (Optional)	1	1
13	334475	Snap Ring	1	1

CONTROL VALVE (Figure 5-6) TRANSMISSION

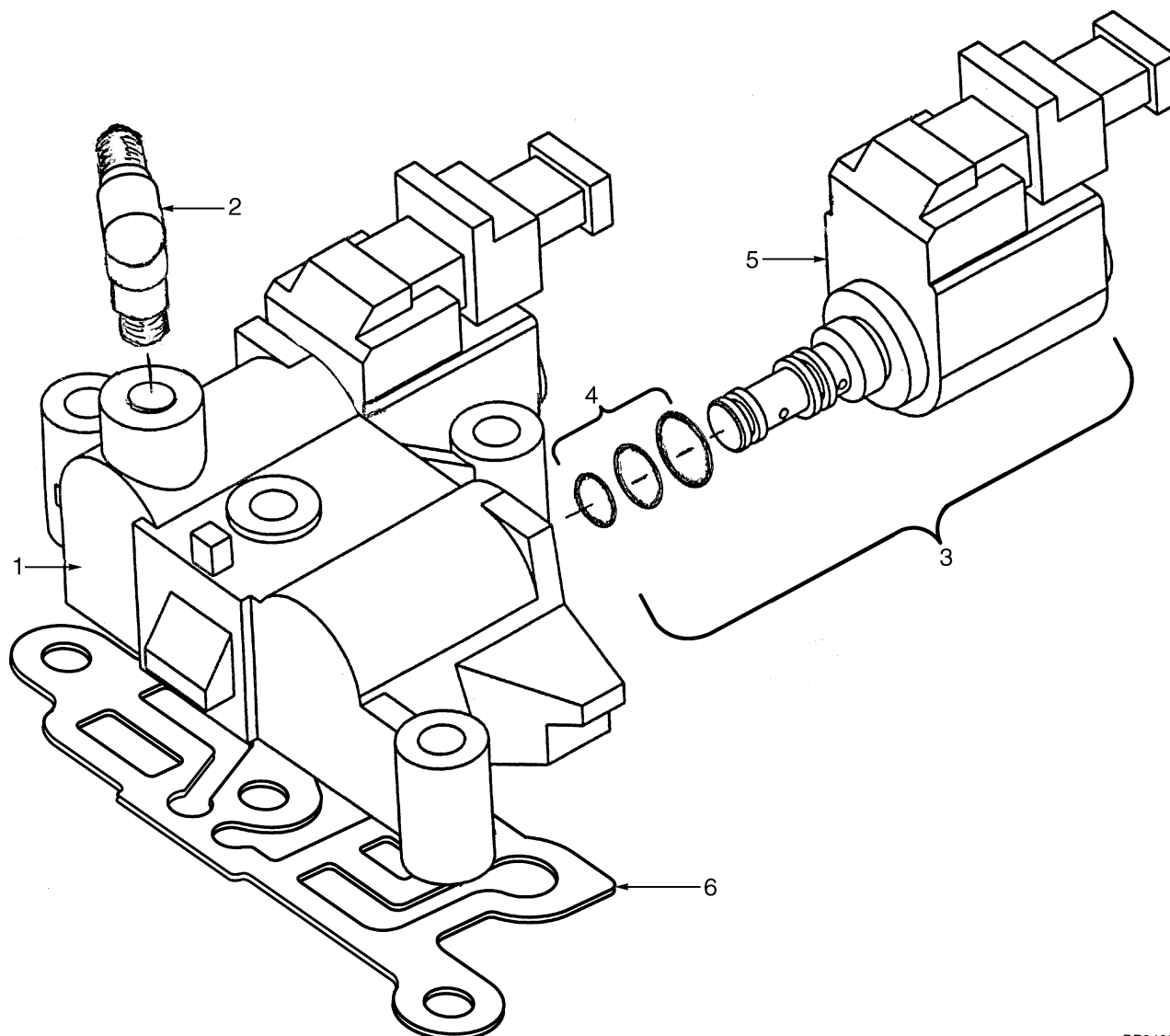


HP240029

**CONTROL VALVE
TRANSMISSION**

ITEM	PART NO.	DESCRIPTION	QTY
	1466123	Control Valve	1
1	361876	Spring (Accumulator).....	1
2	361877	Spring (Trimmer)	1
3	1337817	Plunger (Inching)	1
4	334582	Spool (Trimmer).....	1
5	359221	Spool (Accumulator)	1
6	200659	Fitting.....	1
6	16982	O-Ring.....	1
7	222443	Fitting.....	2
7	16483	O-Ring.....	2
8	334542	Spool (Dump)	1
9	334543	Spring	2
10	334500	Oil Seal.....	1
11	14592	Fitting.....	1
11	16482	O-Ring.....	1
12	1483108	Spool (Inching)	1
13	334531	Spring (Inching)	1
14	1387230	Spring (Inching)	1
15	296418	Washer	1
16	350484	Stop (Inching)	1
17	1394710	Spool (Regulator)	1
18	1394711	Spring (Regulator)	1
19	235691	Fitting.....	2
19	16484	O-Ring.....	1
20	181766	Nipple	1
21	15032	Nut.....	1
22	1388924	Spool (Pack Regulator)	1
23	1394714	Snap Ring (External).....	2
24	222380	Fitting.....	1
24	16482	O-Ring.....	1
25	16923	Fitting.....	1
26	1396637	Body	1
27	1490391	Spool (Forward/Reverse).....	1
28	346648	Cap (Forward/Reverse)	2
29	346645	Spring.....	1
30	58936	Snap Ring.....	1
31	375986	Cap (Monotrol)	1
32	367945	Gasket	1
33	16556	Fitting.....	1
33	16481	O-Ring.....	1
34	134436	Fitting.....	1
34	16482	O-Ring.....	1
35	1461077	Spring.....	1

MANIFOLD VALVE (Figure 5-7)

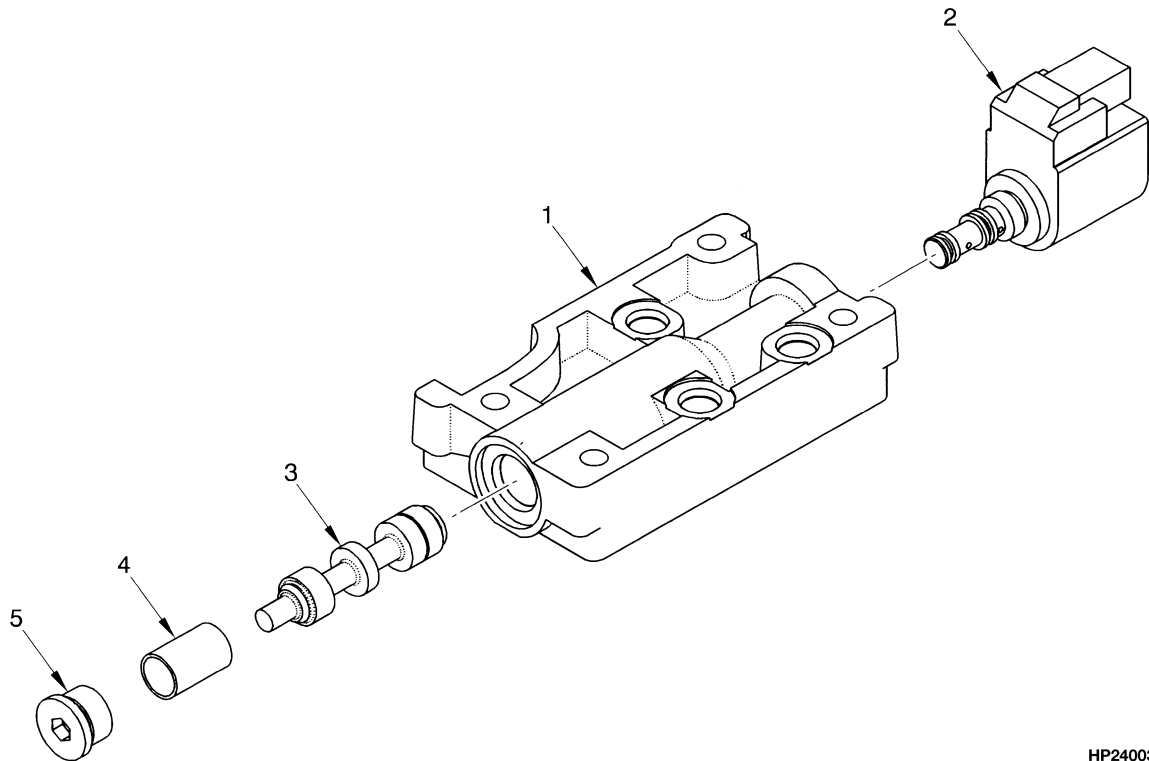


BP240011

ITEM	PART NO.	DESCRIPTION	QTY
	1400159	Manifold Valve.....	1
1	1388563	Manifold.....	1
2	14500	Fitting.....	1
2	246108	Sealant	AR
3	1400158	Solenoid Valve.....	2
4	a 1393160	Seal Kit.....	1
5	1464144	Coil.....	1
6	1388573	Gasket	1

FOOTNOTES:

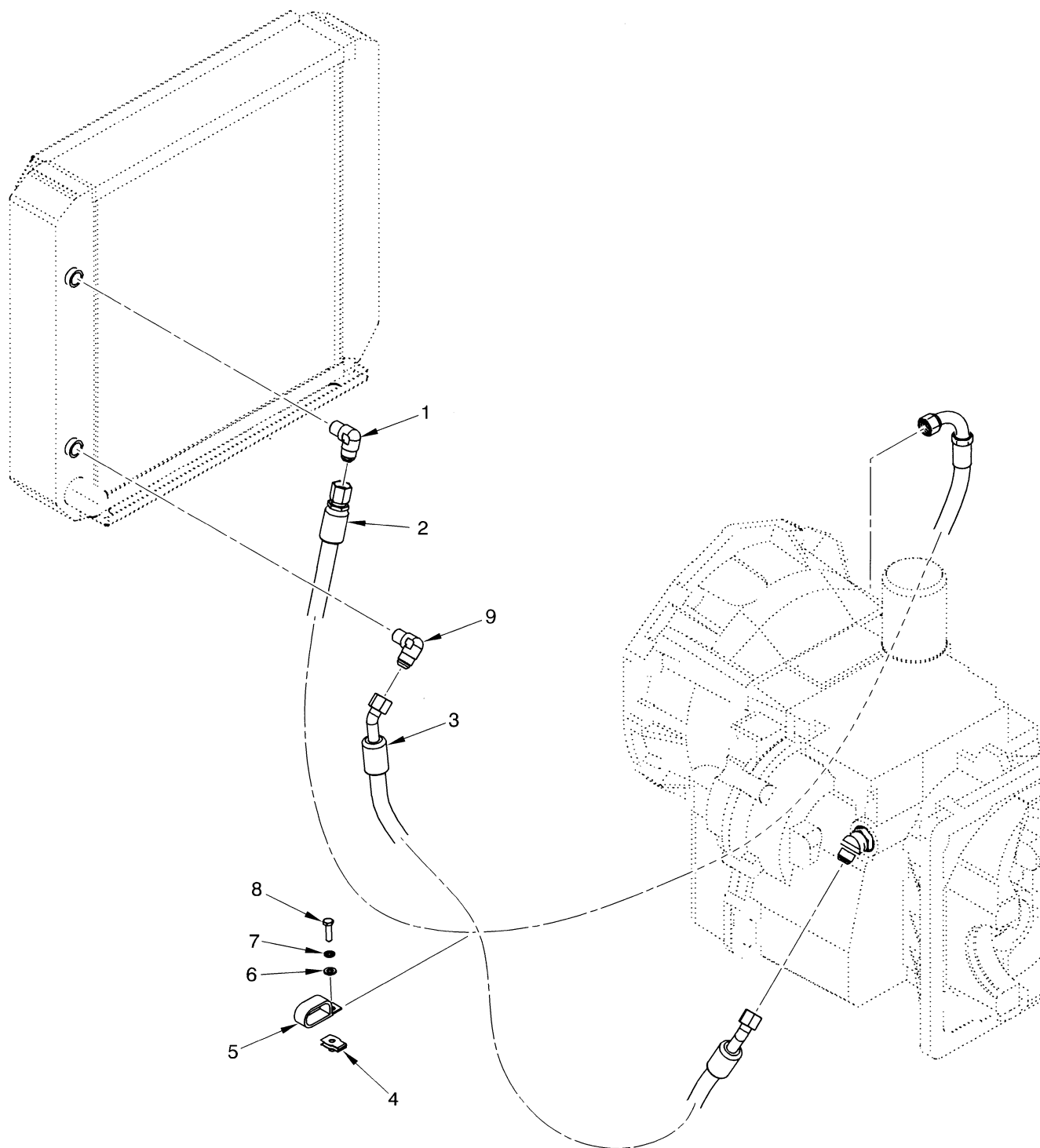
a Services One Solenoid Valve

HIGH AND LOW VALVE (Figure 5-8)

HP240030

ITEM	PART NO.	DESCRIPTION	QTY
	1388612	Valve Assembly	1
1	1388613	Body	1
2	1400158	Solenoid Valve.....	1
2	1393160	Seal Kit.....	1
3	1388615	Spool	1
4	334531	Spring	1
5	235691	Fitting.....	1
5	16484	O-Ring.....	1

TRANSMISSION LINES (Figure 5-9)

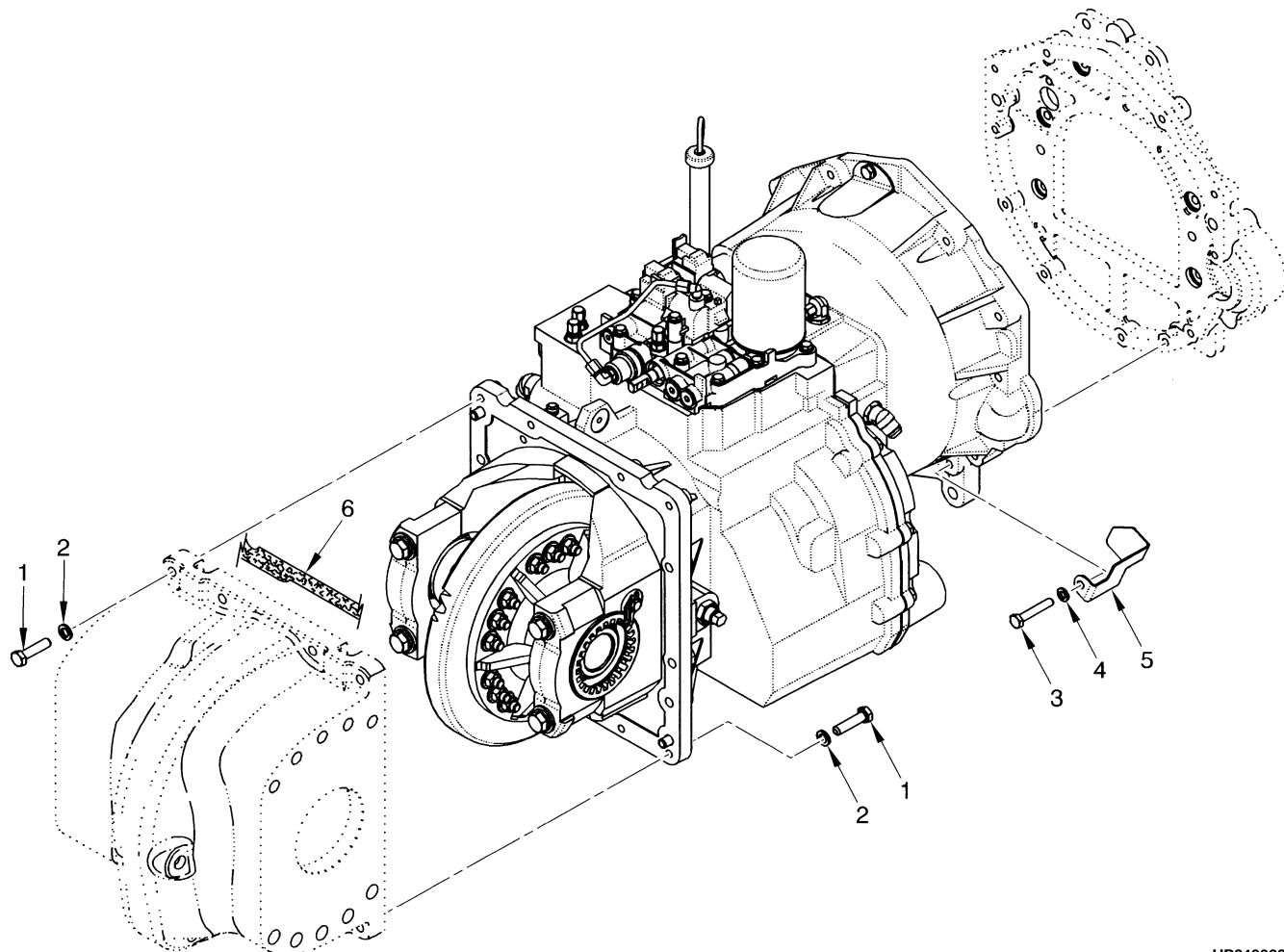


HP240023

TRANSMISSION LINES

ITEM	PART NO.	DESCRIPTION	QTY
1	66885	Fitting.....	1
2	1397978	Hose	1
3	1397982	Hose	1
4	1393879	Clip Nut.....	2
5	212786	Clamp	2
6	320157	Washer	2
7	292681	Lockwasher.....	2
8	132861	Capscrew.....	2
9	201787	Fitting.....	1

TRANSMISSION MOUNT (Figure 5-10)



HP240022

KEY:

A: Single Speed

B: Two Speed

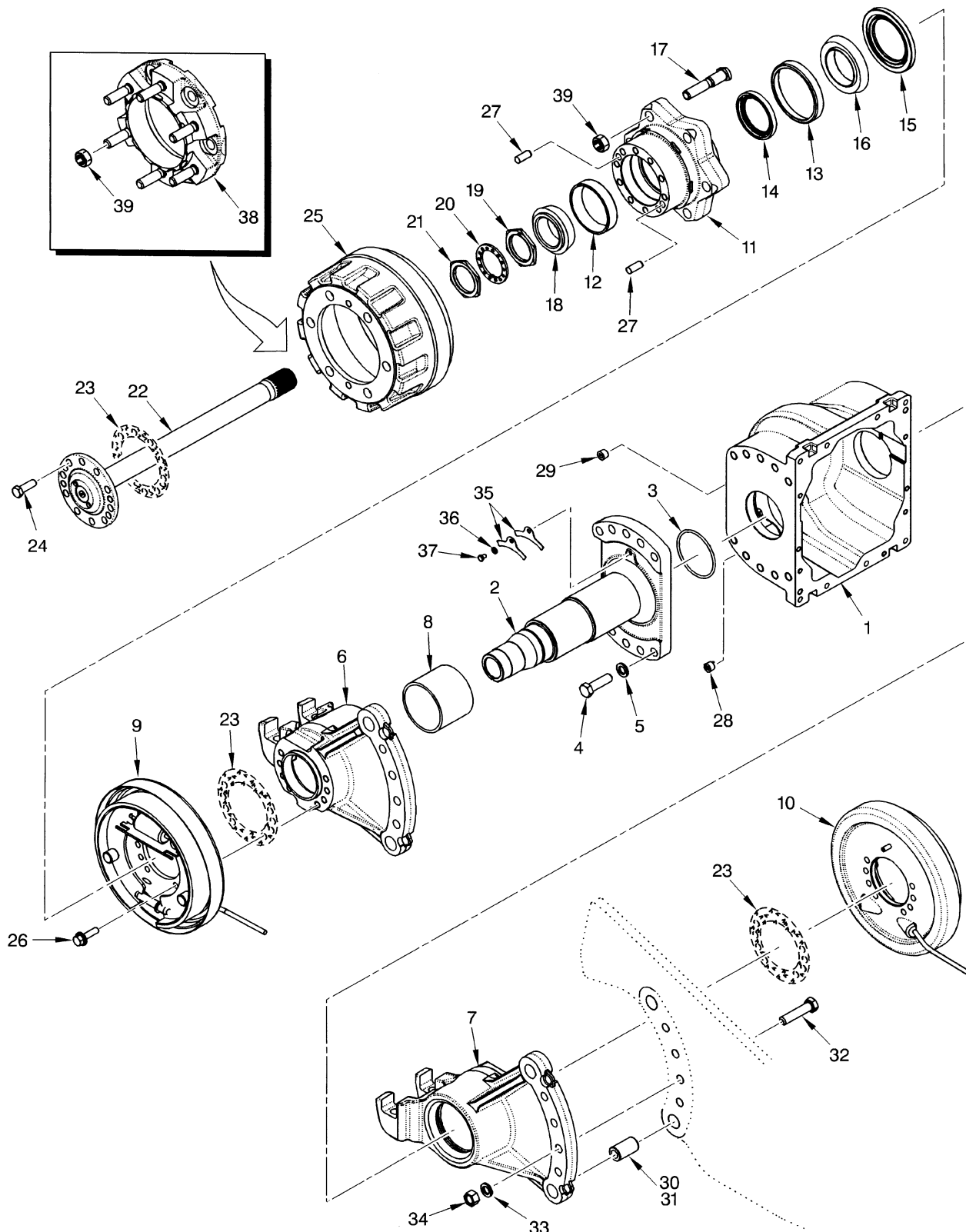
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1488597	Transmission Assembly (T86).....	1	..
	1488600	Transmission Assembly (T88).....	..	1
	1488601	Transmission Assembly (T89).....	..	1
1	292529	Capscrew.....	15	15
2	292683	Lockwasher.....	15	15
3	292519	Capscrew.....	11	11
4	292682	Lockwasher.....	11	11
5	1397797	Cover (Starter, Diesel).....	1	1
5	1465258	Cover (Starter, Gas, LPG, Dual Fuel).....	1	1
6	264159	Adhesive.....	AR	AR

6	DRIVE AXLE	
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SECTION 6
DRIVE AXLE

DESCRIPTION	PAGE
DIFFERENTIAL ASSEMBLY	6-5
DRIVE AXLE	6-2
DRIVE TIRES AND WHEELS	
SINGLE	
H70-H90XM.....	6-6
H90-H120XM.....	6-8

DRIVE AXLE (Figure 6-1)



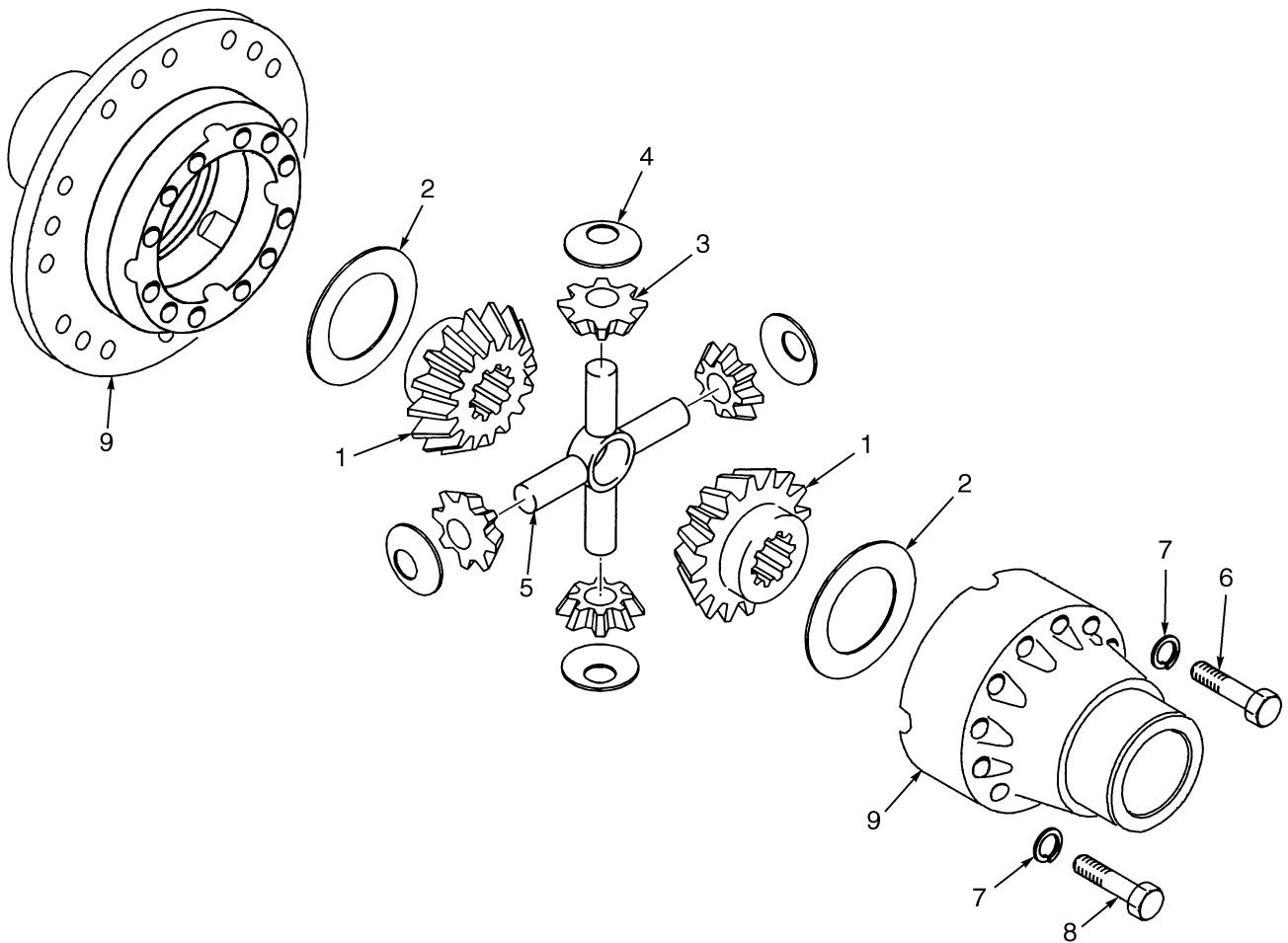
HP070001

DRIVE AXLE**KEY:****A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1529708	Drive Axle Assembly	1	..
	1536722	Drive Axle Assembly	..	1
1	1394603	Housing	1	1
2	1528427	Spindle	2	2
3	18942	O-Ring	2	2
4	293710	Capscrew	20	20
5	292687	Lockwasher	20	20
6	1528484	Hanger (LH).....	1	1
7	1528410	Hanger (RH)	1	1
8	1394605	Bushing	2	2
9	1394681	Brake Assembly (LH) (☞ Figure 8-3)	1	..
9	1536792	Brake Assembly (LH) (☞ Figure 8-3)	..	1
10	1394682	Brake Assembly (RH) (☞ Figure 8-4)	1	..
10	1536793	Brake Assembly (RH) (☞ Figure 8-4)	..	1
11	1536794	Hub Assembly	1	1
11	1536684	Hub	1	1
12	30098	Bearing Cup	1	1
13	1313897	Bearing Cup	1	1
14	2035568	Oil Seal	1	1
15	2035569	Oil Seal	1	1
16	1394618	Bearing Cone	1	1
17	1393342	Stud.....	6	6
18	30097	Bearing Cone	2	2
19	1394620	Nut.....	2	2
20	1394621	Lockwasher	2	2
21	1394622	Nut.....	2	2
22	1394624	Axle Shaft.....	2	2
23	264159	Adhesive.....	AR	AR
24	293685	Capscrew	20	20
25	1479756	Brake Drum	2	..
25	1485867	Brake Drum	..	2
26	1394646	Stud.....	16	16
27	352220	Pin	4	4
28	15290	Fitting.....	1	1
29	15315	Fitting.....	1	1
30	370651	Pin	4	4
31	251979	Lubricant.....	AR	AR
32	292589	Capscrew.....	8	8
33	292687	Lockwasher.....	8	8
34	292620	Nut	8	8
35	1394661	Shim (0.039 in.)	4	4
36	292681	Lockwasher.....	2	2
37	287805	Capscrew.....	2	2
38	1393346	Adapter (Dual Wheel) (2100 mm Long Wheel Base)	..	1
38	1393344	Adapter (Dual Wheel) (1830 mm Short Wheel Base).....	1	..
39	376026	Lug Nut.....	12	12

DRIVE AXLE

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
39	376026	Lug Nut (Dual Wheel)	24	24
39	1394715	Lug Nut (Optional)	12	12
39	1394715	Lug Nut (Dual Wheel) (Optional)	24	24

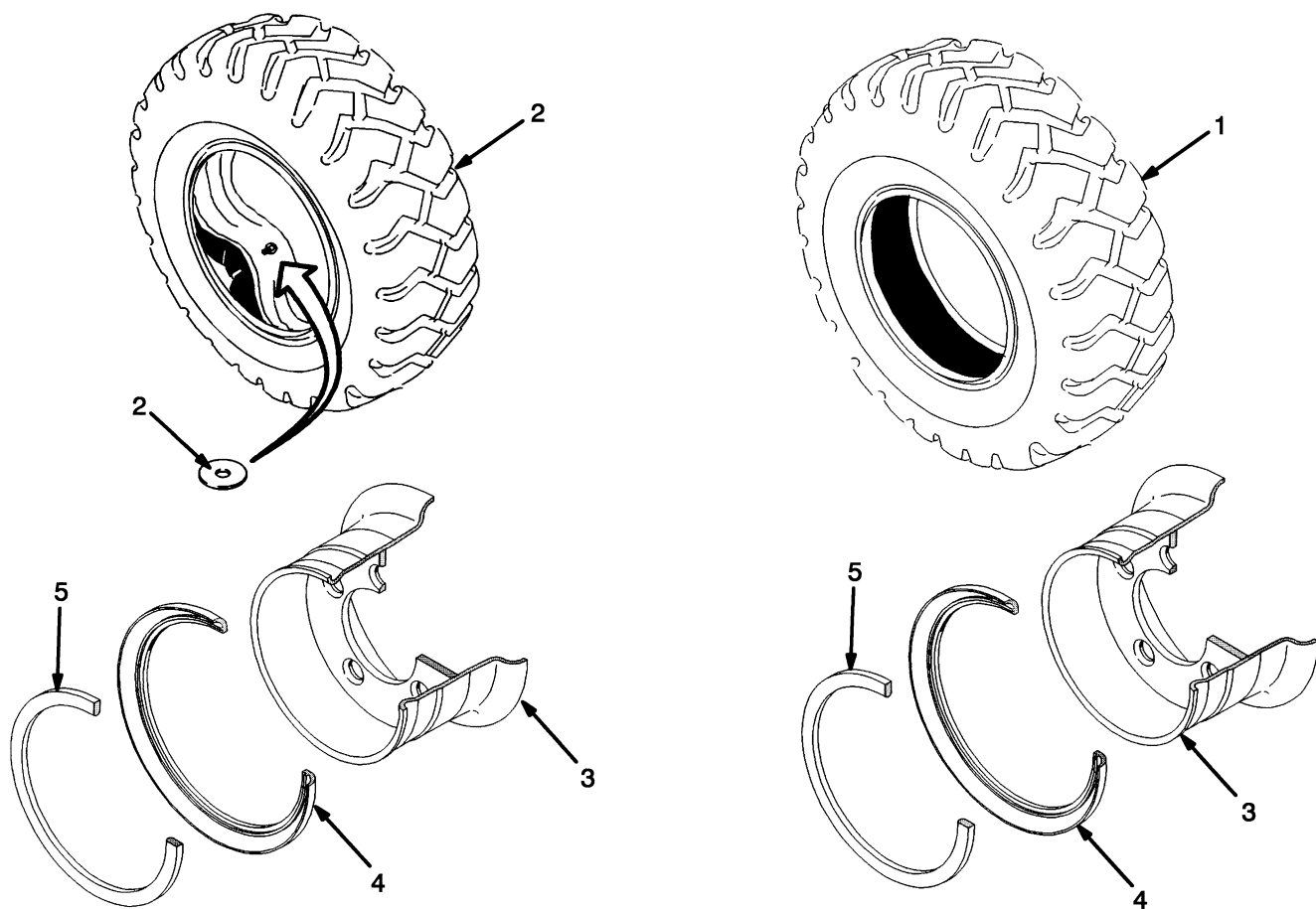
DIFFERENTIAL ASSEMBLY (Figure 6-2)

BP070003

ITEM	PART NO.	DESCRIPTION	QTY
	1476426	Differential Assembly	1
1	1484734	Side Gear	2
2	1484735	Washer	2
3	1484736	Pinion	4
4	1484737	Washer	4
5	1484738	Spider	1
6	1484739	Capscrew	8
7	1484741	Washer	12
8	1484740	Bolt	4
9	1484733	Case Set.....	1

DRIVE TIRES AND WHEELS (Figure 6-3)

SINGLE H70-H90XM



YP070055

DRIVE TIRES AND WHEELS

SINGLE

H70-H90XM

KEY:

- A:** 250 x 15 - Solid (H70-90XM)
B: 250 x 15 - 16 Ply (H70-80XM)
C: 250 x 15 - 18 Ply (H70-90XM)
D: 250/70 R15 Radial (H70-90XM)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	352266	Tire (Standard Hardness)	2	..	..	..
2	1302126	Tire Assembly	..	..	2	..
2	1302127	Tire (With Flap)	..	..	1	..
2	1358184	Tire	..	..	..	1
2	1337744	Tire Assembly	..	..	..	2
2	352268	Tire Assembly	..	2	..	..
2	352269	Tire (With Flap)	..	1	..	..
2	1471830	Tire Assembly (Tubeless) (Not Illustrated)	..	..	..	2
2	1462618	Bead Seal (Not Illustrated)	..	..	..	2
2	1358195	Tube	..	..	..	1
2	352270	Tube	..	1	1	..
2	1376007	Washer (Valve Stem)	..	..	..	2
2	1394500	Plate (Valve Stem)	2	2	2	2
2	336555	Plate (Valve Stem) (Optional)	2	2	2	2
2	1533587	Plate (Valve Stem) (Optional)	2	2	2	2
3	2035020	Wheel Assembly	..	..	..	2
3	a 2035020	Wheel Assembly	2	2	2	..
3	b 2035021	Wheel Assembly	2	2	2	..
4	322637	Side Ring	1	1	1	1
5	322638	Lock Ring	1	1	1	1

FOOTNOTES:

- a** Standard Tread
b Wide Tread

DRIVE TIRES AND WHEELS

SINGLE

H90-H120XM

KEY:**A:** 300 x 15 Solid (H100-120XM)**B:** 300 x 15 18 Ply (H100-120XM)**C:** 315/70 R15 Radial (H100-120XM)**D:** 315/70 R15 Tubless Radial (H90-120XM)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	336123	Tire (Standard Hardness)	2	..	..	..
2	1337745	Tire Assembly	..	..	2	..
2	1358185	Tire	..	..	1	1
2	321043	Tire Assembly	..	2	..	..
2	321044	Tire (With Flap).....	..	1	..	..
2	1471831	Tire Assembly (Not Illustrated)	..	..	..	2
2	1471595	Seal (Not Illustrated).....	..	..	..	1
2	1471922	Tubeless Bead Seal Valve (Not Illustrated)	..	..	..	1
2	321045	Tube.....	..	1	1	..
2	1358192	Tube.....	..	..	1	..
2	1376007	Washer (Valve Stem).....	..	..	2	..
2	336555	Plate (Valve Stem) (Optional)	2	2	2	..
2	1533587	Plate (Valve Stem).....	..	..	..	2
3	a 2035022	Wheel Assembly	2	2	2	..
3	b 2035023	Wheel Assembly	2	2	..	..
4	322637	Side Ring	1	1	1	..
5	322638	Lock Ring	1	1	1	..

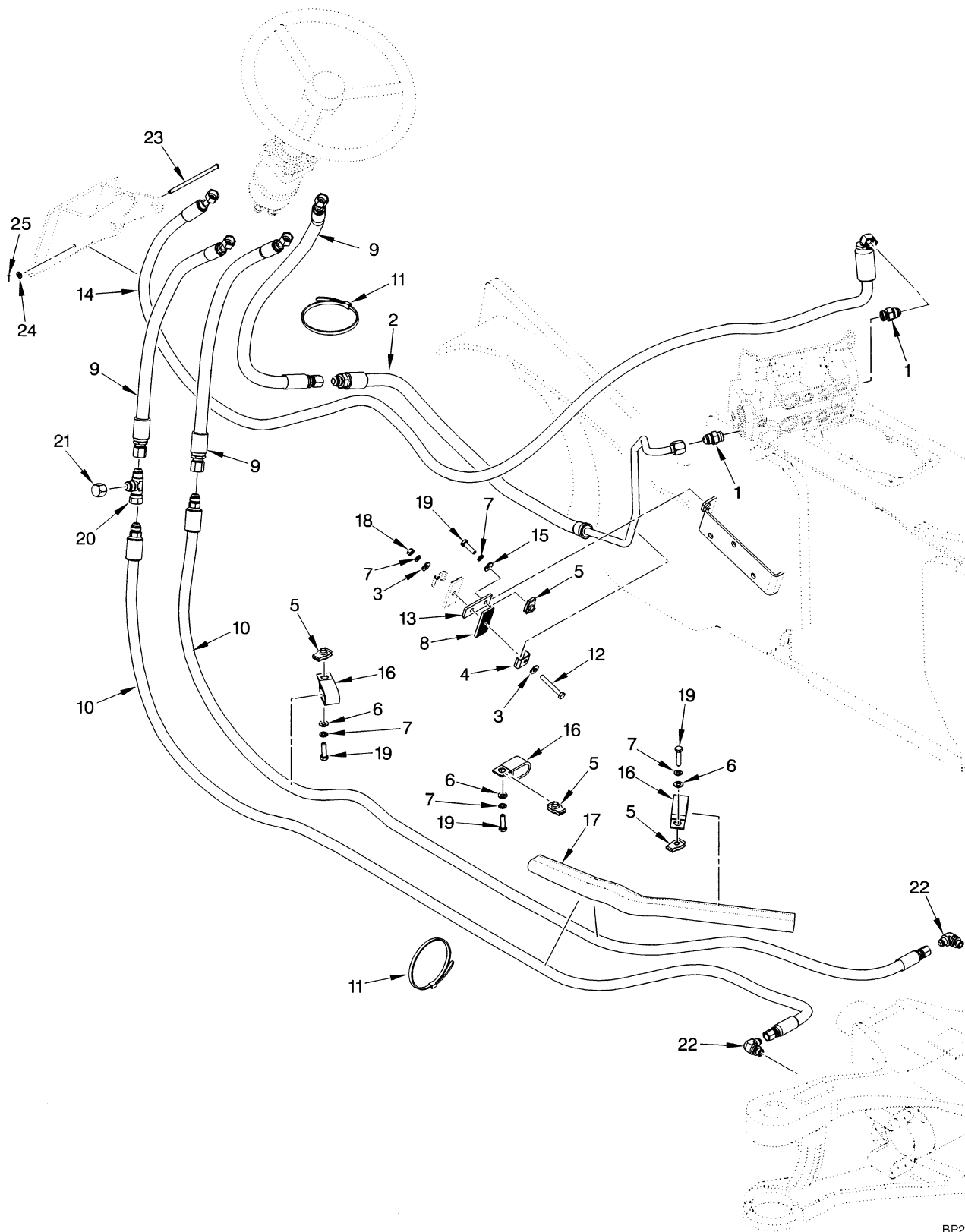
FOOTNOTES:**a** Standard Tread**b** Wide Tread

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SECTION 7
STEERING SYSTEM

DESCRIPTION	PAGE
SHIFT LEVER	7-6
STEER AXLE	7-8
STEER COLUMN	7-4
STEER CYLINDER	7-12
STEER PUMP	7-14
STEER TIRES AND WHEELS	7-16
STEERING SYSTEM	7-2

STEERING SYSTEM (Figure 7-1)

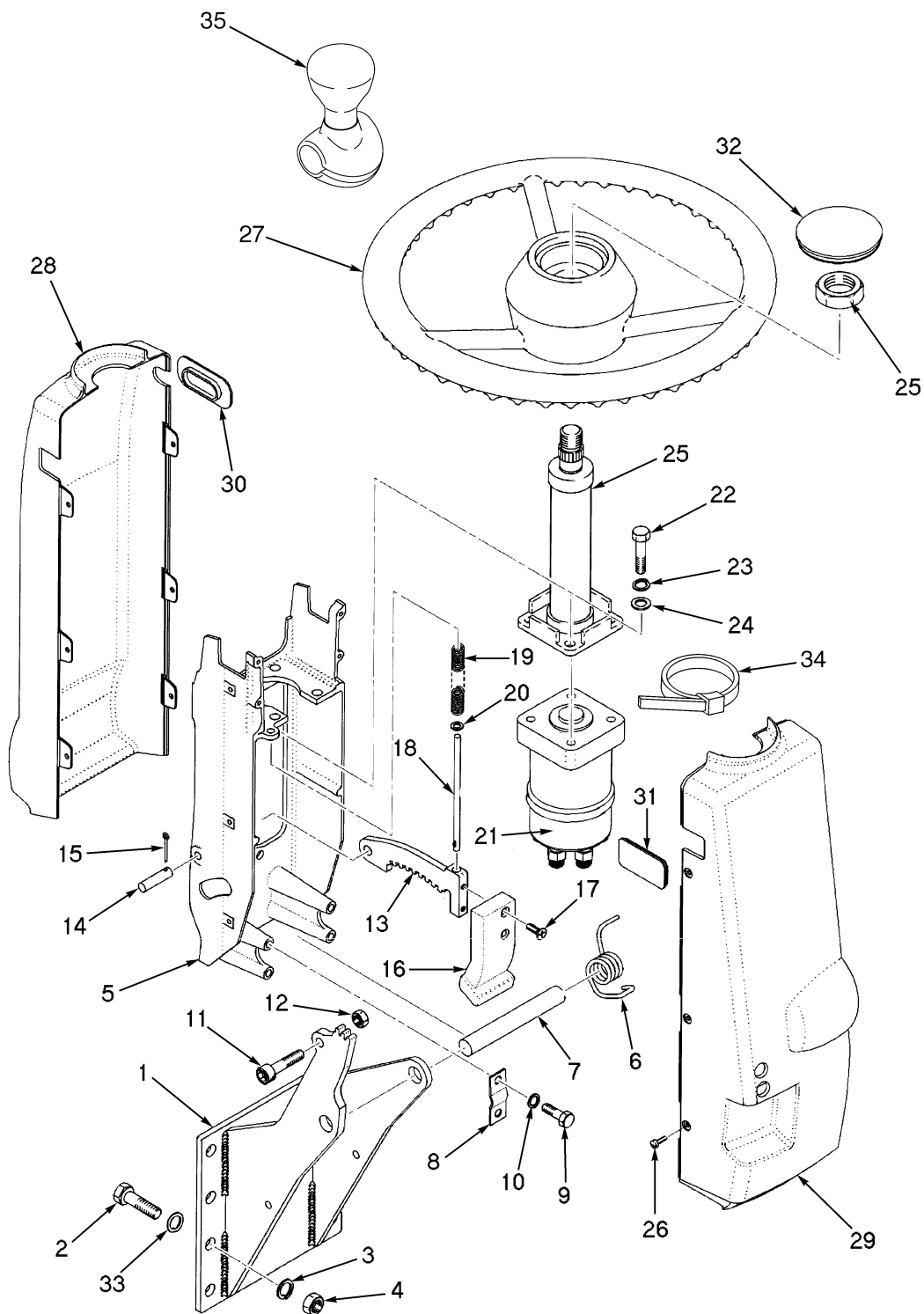


BP220041

STEERING SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	16541	Fitting.....	1
1	16484	O-Ring.....	1
2	1543616	Hose.....	1
3	320158	Washer.....	6
4	1400244	Clamp.....	1
5	1393879	Clip Nut.....	5
6	320157	Washer.....	7
7	292681	Lockwasher.....	6
8	1399323	Pad.....	4
9	1396719	Hose.....	3
10	1397979	Hose (1830 mm Short Wheel Base).....	2
10	1397980	Hose (2100 mm Long Wheel Base).....	2
11	397676	Strap Clamp.....	AR
12	136704	Capscrew.....	1
13	1550643	Plate.....	1
14	1396720	Hose.....	1
15	320158	Washer.....	6
16	79377	Clamp.....	4
17	1358120	Sleeve.....	1
18	239503	Nut.....	3
19	132861	Capscrew.....	6
20	17062	Fitting.....	1
21	16925	Fitting.....	1
22	16558	Fitting.....	2
22	16483	O-Ring.....	1
23	1352616	Rod End Pin.....	1
24	320156	Washer.....	1
25	18824	Cotter Pin.....	1

STEER COLUMN (Figure 7-2)

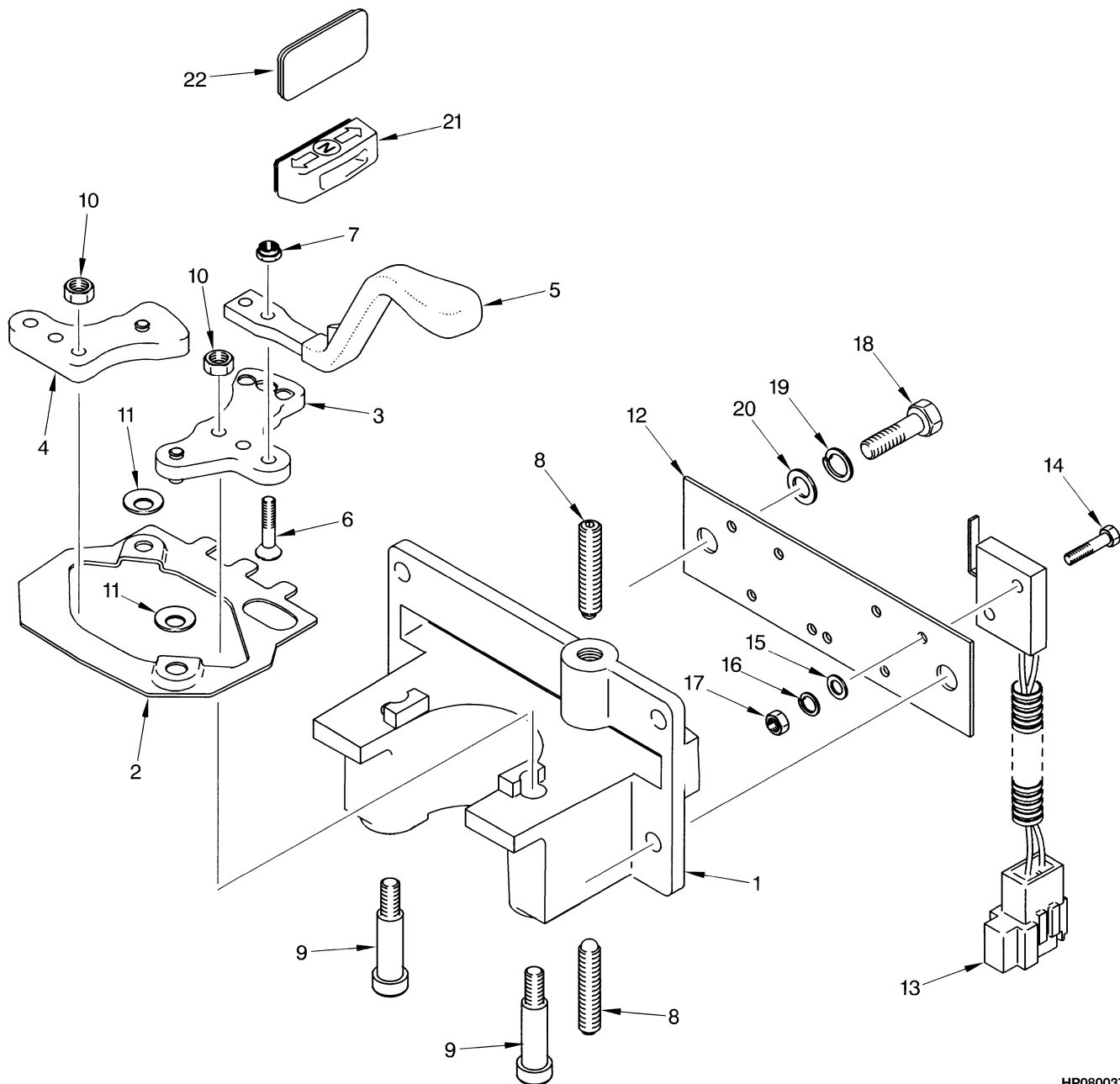


BP220042

STEER COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
1	1385451	Bracket.....	1
2	136985	Capscrew.....	4
3	292682	Lockwasher.....	4
4	136692	Nut	4
5	1343573	Bracket.....	1
6	1378600	Spring	1
7	1335987	Shaft	1
8	1335967	Plate	2
9	136749	Capscrew.....	4
10	292681	Lockwasher.....	4
11	296010	Capscrew.....	1
12	302400	Locknut	1
13	1364271	Latch (Gear)	1
14	1343607	Pin	1
15	15212	Cotter Pin.....	1
16	1343574	Latch Knob	1
17	296215	Capscrew.....	2
18	1343572	Rod	1
19	1343537	Spring	1
20	320155	Washer	1
21	1388773	Steer Pump (P Figure 7-6)	1
22	16815	Capscrew.....	4
23	15156	Lockwasher.....	4
24	15134	Washer	4
25	1347025	Steer Column.....	1
25	345423	Nut.....	1
25	1382556	Terminal Kit (Horn)	1
26	1507923	Screw.....	6
27	1329250	Steering Wheel.....	1
28	1397863	Cover (Upper)	1
29	1397864	Cover (Lower)	1
30	1376743	Plug (Without Turn Signals)	1
31	1343597	Plug	2
32	1347135	Horn Button	1
33	1324577	Washer	4
34	273775	Strap Clamp.....	1
35	895468	Knob	1

SHIFT LEVER (Figure 7-3)

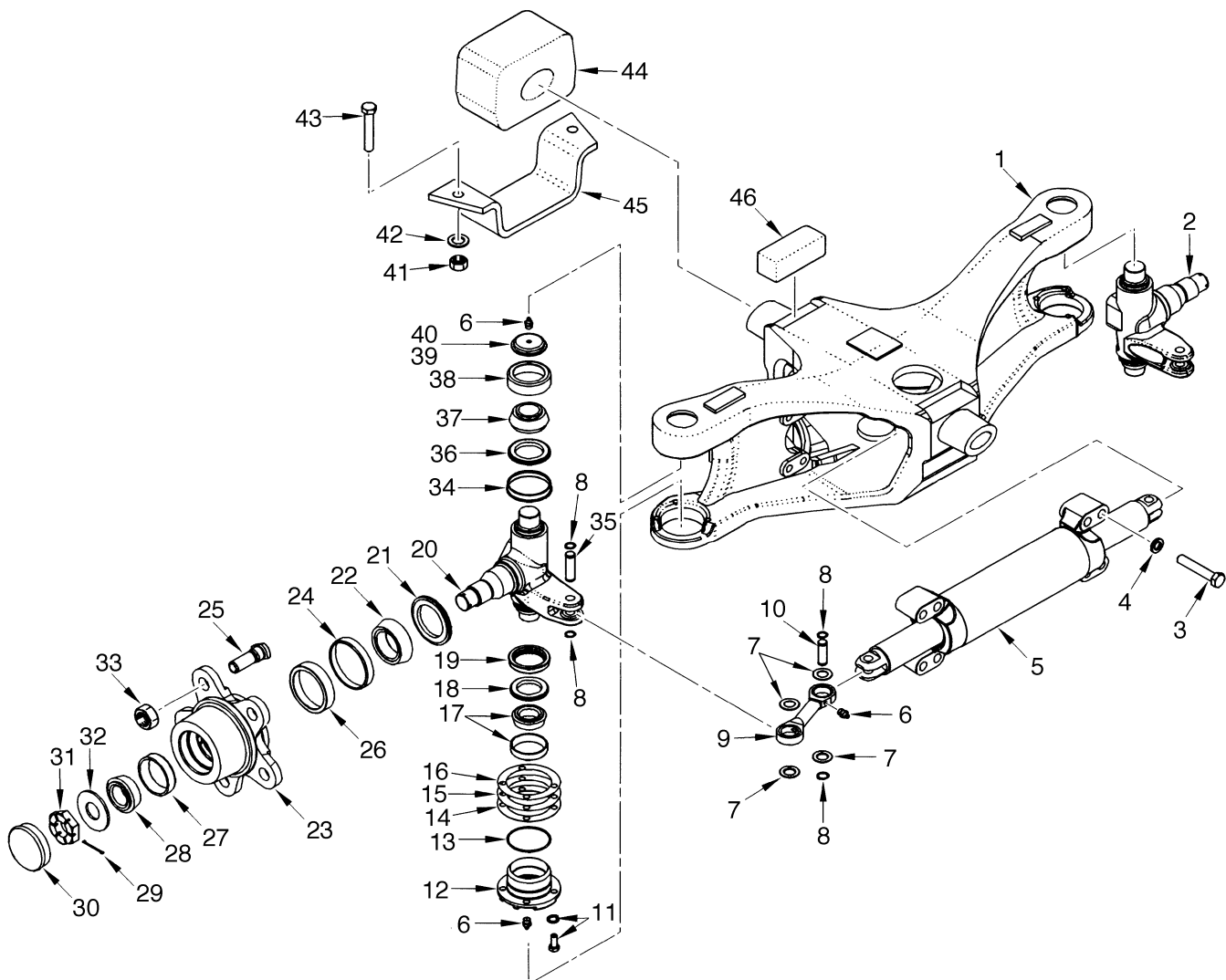


HP080037

SHIFT LEVER

ITEM	PART NO.	DESCRIPTION	QTY
	1347004	Shift Lever Assembly	1
1	1343577	Base	1
2	1343578	Link.....	1
3	1343579	Crank.....	1
3	1343592	Crank	1
3	1356375	Pin.....	1
4	1343598	Crank.....	1
4	1347217	Crank	1
4	1356375	Pin.....	1
5	1343593	Shift Lever	1
6	296205	Capscrew	2
7	302398	Locknut.....	2
8	1491830	Spring Plunger	2
9	1343594	Bolt	2
10	136687	Nut.....	2
11	1354300	Washer	4
12	1343595	Plate	1
13	2035678	Switch	2
14	220273	Screw.....	4
15	197064	Washer	4
16	53162	Lockwasher.....	4
17	16865	Nut	4
18	292500	Capscrew.....	4
19	292680	Lockwasher.....	4
20	320156	Washer	4
21	1343596	Bracket (Label)	1
22	1343597	Plug (Monotrol)	1

STEER AXLE (Figure 7-4)



BP220043

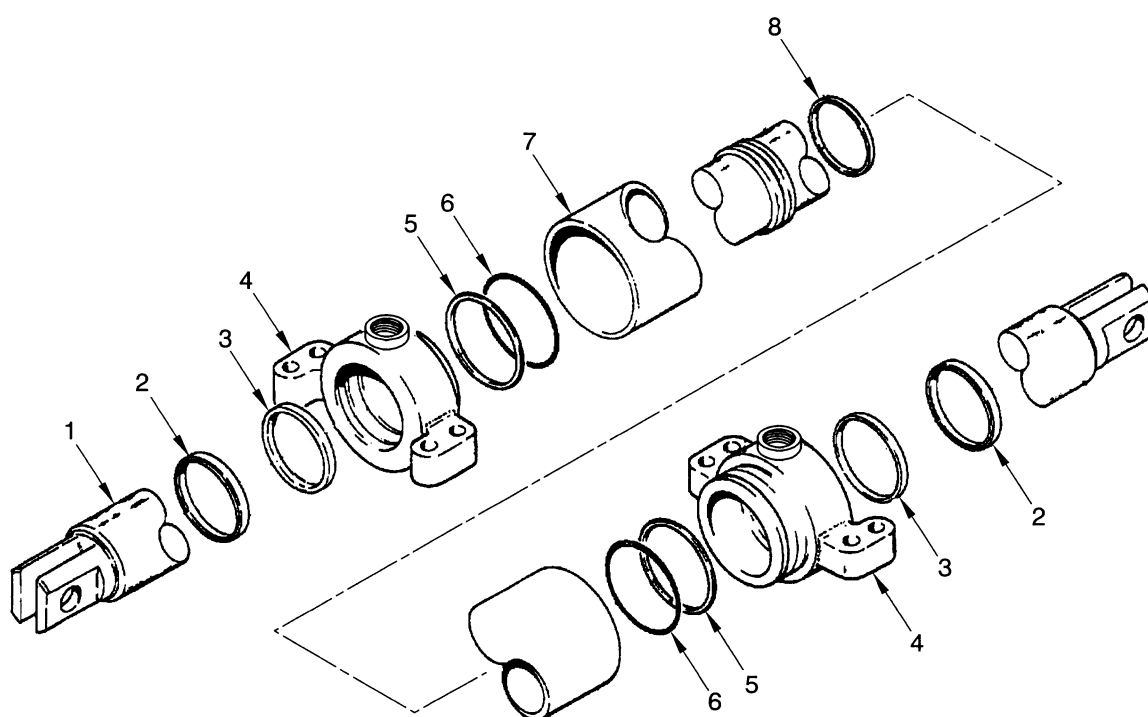
STEER AXLE

ITEM	PART NO.	DESCRIPTION	QTY
	1491381	Steer Axle Assembly.....	1
1	1388673	Frame (Steer Axle)	1
2	1388842	Spindle (RH).....	1
3	293694	Capscrew	8
4	292685	Lockwasher	8
5	2035137	Steer Cylinder (☞ Figure 7-5)	1
6	13957	Lube Fitting.....	12
7	1345684	Seal	8
8	58903	Snap Ring.....	8
9	1491382	Tie Rod Assembly	2
9	1350680	Bearing.....	1
10	1544971	Pin	2
11	293628	Screw	6
11	296420	Washer	4
12	1394554	Cap Assembly	2
12	1394552	Bearing.....	1
13	39678	O-Ring	2
14	1388848	Shim (0.020 in.)	2
15	1388847	Shim (0.007 in.)	2
16	1388846	Shim (0.005 in.)	2
17	135657	Bearing Cone	2
17	135658	Bearing Cup	1
18	266728	Seal	2
19	266733	Seal	2
20	1388670	Spindle (LH)	1
21	44542	Oil Seal.....	2
22	30289	Bearing Cone	2
23	1388828	Hub Assembly	2
23	1388827	Hub	1
24	164639	Wear Sleeve.....	1
25	1393348	Stud (Wheel)	5
26	30147	Bearing Cup.....	1
27	30019	Bearing Cup.....	1
28	230315	Bearing Cone	2
29	15226	Cotter Pin	2
30	69029	Hub Cap	2
31	1383777	Nut (Spindle)	2
32	1388832	Washer	2
33	376026	Lug Nut.....	10
33	1394715	Lug Nut (Optional)	10
34	153717	Wear Sleeve	2
35	1544972	Pin	2
36	153716	Seal	2
37	153715	Bearing Cone	2
38	230421	Bearing Cup	2
39	280472	Sealant	AR
40	1388829	Cap.....	2
41	300937	Nut.....	4
42	320161	Washer	8
43	293648	Capscrew	4
44	324864	Mount	2

STEER AXLE

ITEM	PART NO.	DESCRIPTION	QTY
45	324858	Plate	2
46	1388838	Mount (Optional, Extra Capacity)	2

[illegible]

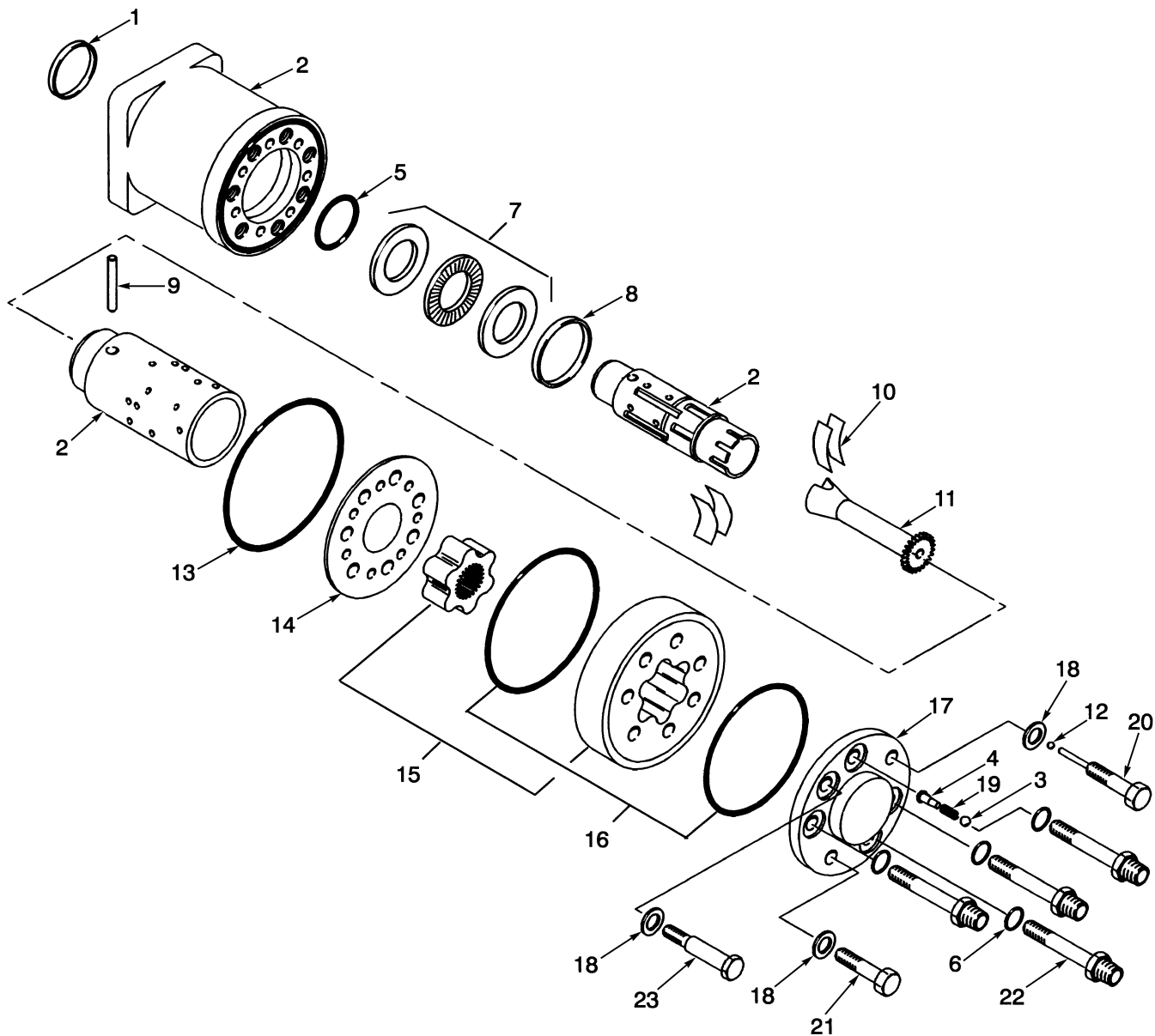
STEER CYLINDER (Figure 7-5)

HP220211

STEER CYLINDER

ITEM	PART NO.	DESCRIPTION	QTY
	2035137	Steer Cylinder (Group No. 8602499).....	1
1	1388657	Rod.....	1
2	203071	Rod Wiper	2
3	210183	Seal	2
4	1388665	Cap.....	2
5	270015	Back-Up Ring	2
6	79981	O-Ring	2
7	1388780	Shell	1
8	2047829	Seal	1
	1501409	Seal Kit (Includes Items 2-3, 5-6, 8)	1

STEER PUMP (Figure 7-6)

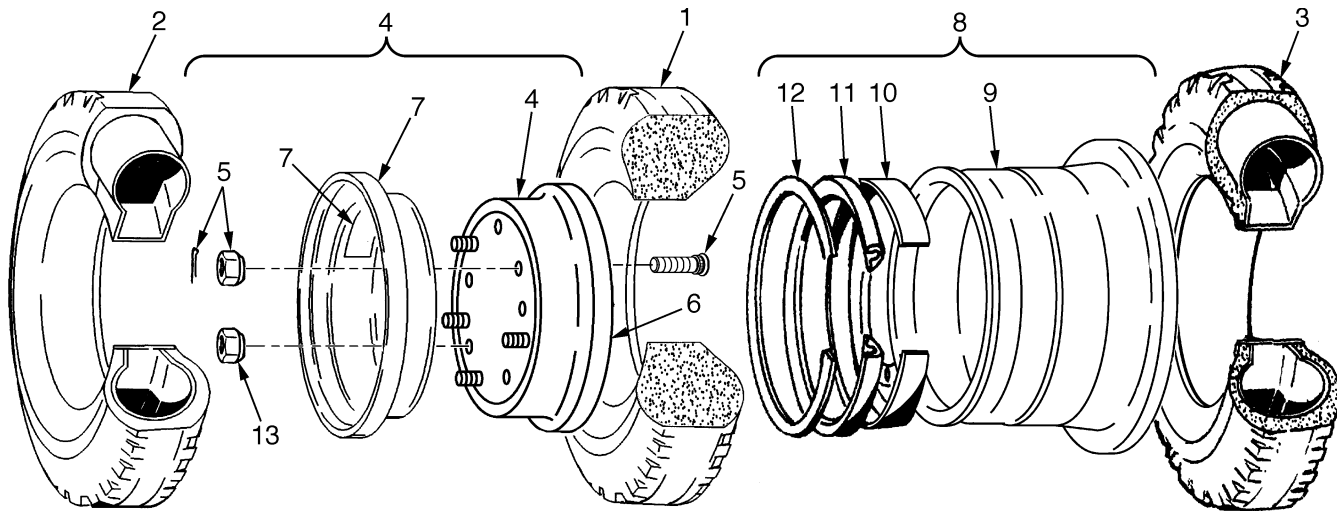


BP220018

STEER PUMP

ITEM	PART NO.	DESCRIPTION	QTY
	1388773	Steer Pump.....	1
1	.....	Seal Ring.....	1
2	.....	Housing	1
2	.....	Spool and Sleeve	1
3	345408	Ball	1
4	1459988	Stop	1
5	2032230	Seal	1
6	15860	O-Ring	4
7	345410	Bearing Set	1
8	345411	Ring.....	1
9	345412	Pin	1
10	1303787	Spring.....	1
11	1355326	Shaft	1
12	1459984	Ball	1
13	.....	O-Ring	1
14	.....	Plate	1
15	.....	Gear Set	1
16	1459989	O-Ring.....	2
17	.....	Cover.....	1
18	.....	Washer	3
19	1459987	Spring.....	1
20	366069	Screw	1
21	371344	Capscrew	1
22	1459985	Port (Male).....	4
23	1459986	Screw	1
	1459983	Seal Kit (Includes Items 1, 5-6, 13, 16, 18)	1

STEER TIRES AND WHEELS (Figure 7-7)



BP220044

KEY:

- A:** 7.00 x 12 Solid
B: 7.00 x 12 12 Ply
C: 7.00 R12 Radial

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
1	174209	Tire (Standard Hardness)	2	..	..
2	130619	Tire Assembly	..	2	..
2	45736	Tire (With Flap).....	..	1	..
2	45737	Tube.....	..	1	..
2	2035998	Tire, Flap And Tube (Optional).....	..	2	..
2	2028521	Tire, Flap And Tube (Optional).....	..	2	..
3	1337743	Tire Assembly	..	..	2
3	1358179	Tire	..	..	1
3	1358190	Tube.....	..	..	1
3	1376007	Washer (Valve Stem) (Not Illustrated)	..	..	1
3	1471829	Tire Assembly (Tubeless)	..	..	2
3	1471591	Tubeless Bead Seal (Not Illustrated)	..	..	1
3	1471922	Tubeless Bead Seal Valve (Not Illustrated)	..	..	1
3	1358179	Tire	..	..	1
4	1394508	Wheel Assembly (Divided).....	2	2	..
4	1394509	Wheel (Outer).....	1	1	..
4	1394510	Wheel	1	1	..
5	45656	Wheel Stud (Press Fitted)	5	5	..
5	11276	Wheel Nut	5	5	..
5	15224	Cotter Pin	5	5	..
6	288638	Label (Warning) (Not Illustrated)	10	10	..
7	1394511	Wheel (Inner).....	2	2	..
7	1394512	Wheel	1	1	..
7	288638	Label (Warning)	2	2	..
8	2035044	Wheel Assembly	..	..	2
9	1394514	Wheel	..	..	1
10	806556	Shoulder Ring.....	..	..	1
11	161890	Side Ring.....	..	..	1
12	161889	Locking Ring.....	..	..	1

STEER TIRES AND WHEELS

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
13	376026	Lug Nut	10	10	..
13	1394715	Lug Nut (Optional)	10	10	..

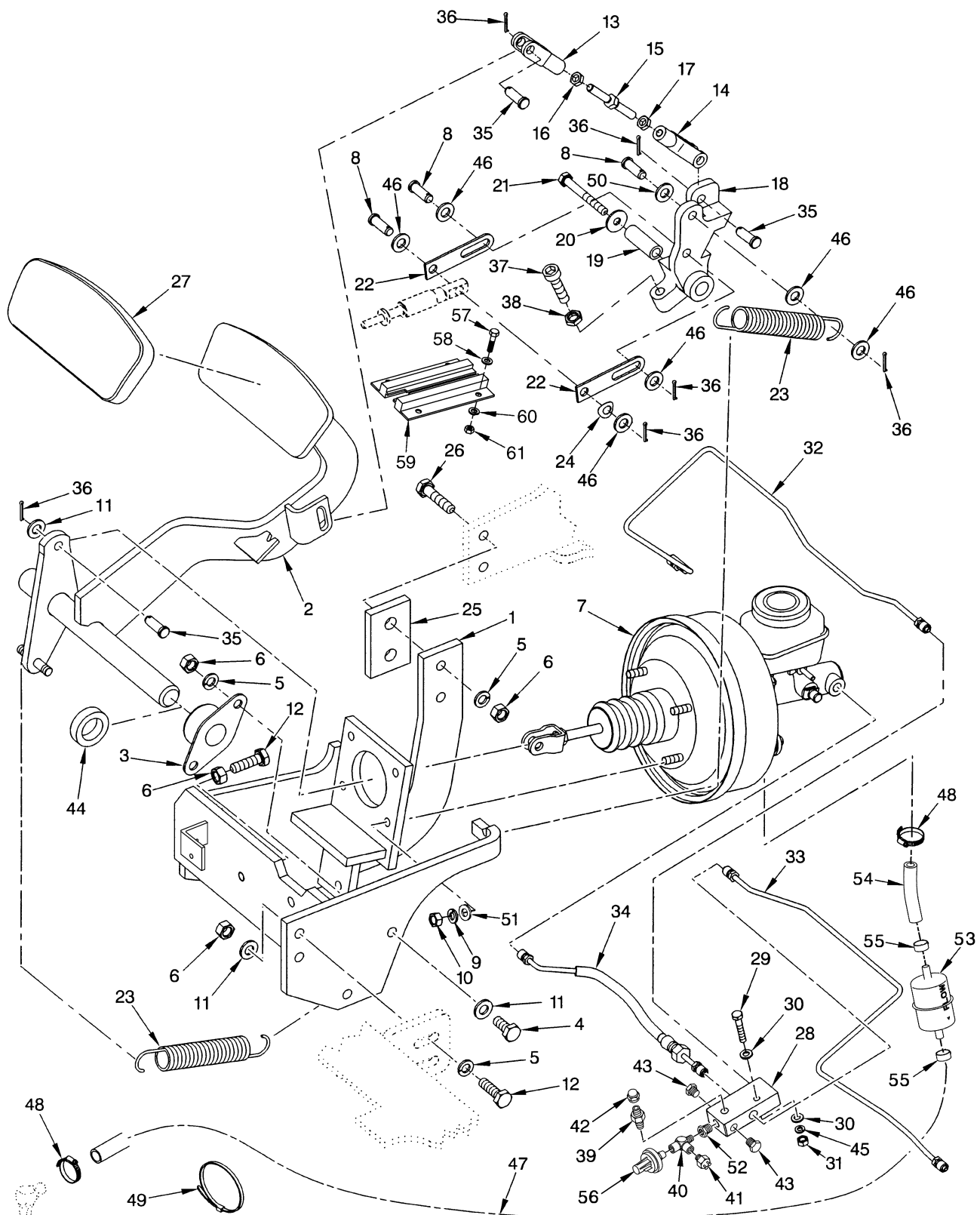
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SECTION 8
BRAKE SYSTEM

DESCRIPTION	PAGE
BRAKE ASSEMBLY	
H100-120XM.....	8-12
H70-90XM.....	8-8
BRAKE SYSTEM.....	8-2
MASTER CYLINDER AND BOOSTER ASSEMBLY	8-6
PARK BRAKE	8-16

BRAKE SYSTEM (Figure 8-1)



BP040022

BRAKE SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
1	1553495	Bracket.....	1
2	1490070	Pedal.....	1
3	1327161	Bushing.....	2
4	136985	Capscrew.....	3
5	292682	Lockwasher.....	8
6	136692	Nut	9
7	1399276	Master Cylinder and Booster ( Figure 8-2)	1
8	1378435	Rod End Pin	3
9	292681	Lockwasher.....	4
10	239503	Nut	4
11	320159	Washer	6
12	287860	Capscrew.....	4
13	393502	Rod End.....	1
14	1338262	Rod End.....	1
15	1394576	Link	1
16	15025	Nut	1
17	16897	Nut	1
18	1399288	Crank (Inching)	1
19	1337108	Spacer	1
20	332755	Washer	1
21	136704	Capscrew.....	1
22	1399289	Link	2
23	2037760	Spring	2
24	375984	Washer	1
25	1397708	Plate	1
26	292516	Capscrew.....	1
27	1343630	Pad (Pedal).....	1
28	1470686	Block.....	1
29	292504	Capscrew.....	1
30	15172	Washer	2
31	136687	Nut	1
32	b 1394815	Tube (LH).....	1
32	c 1394817	Tube (LH).....	1
33	b 1394816	Tube (RH).....	1
33	c 1394818	Tube (RH).....	1
34	1394819	Hose	1
35	142	Pin	3
36	1351689	Cotter Pin.....	5
37	302054	Screw.....	1
38	292653	Nut	1
39	16124	Fitting.....	1
40	16186	Fitting (Monotrol Pedal)	1
41	387867	Pressure Switch (Monotrol Pedal)	1
41	1517939	Pressure Switch.....	1
42	281700	Nut	1
43	14349	Fitting.....	2
44	370743	Collar	1
45	292680	Lockwasher.....	1
46	15134	Washer	6
47	2037906	Hose (LPG).....	1
47	2037907	Hose (Diesel).....	1

BRAKE SYSTEM

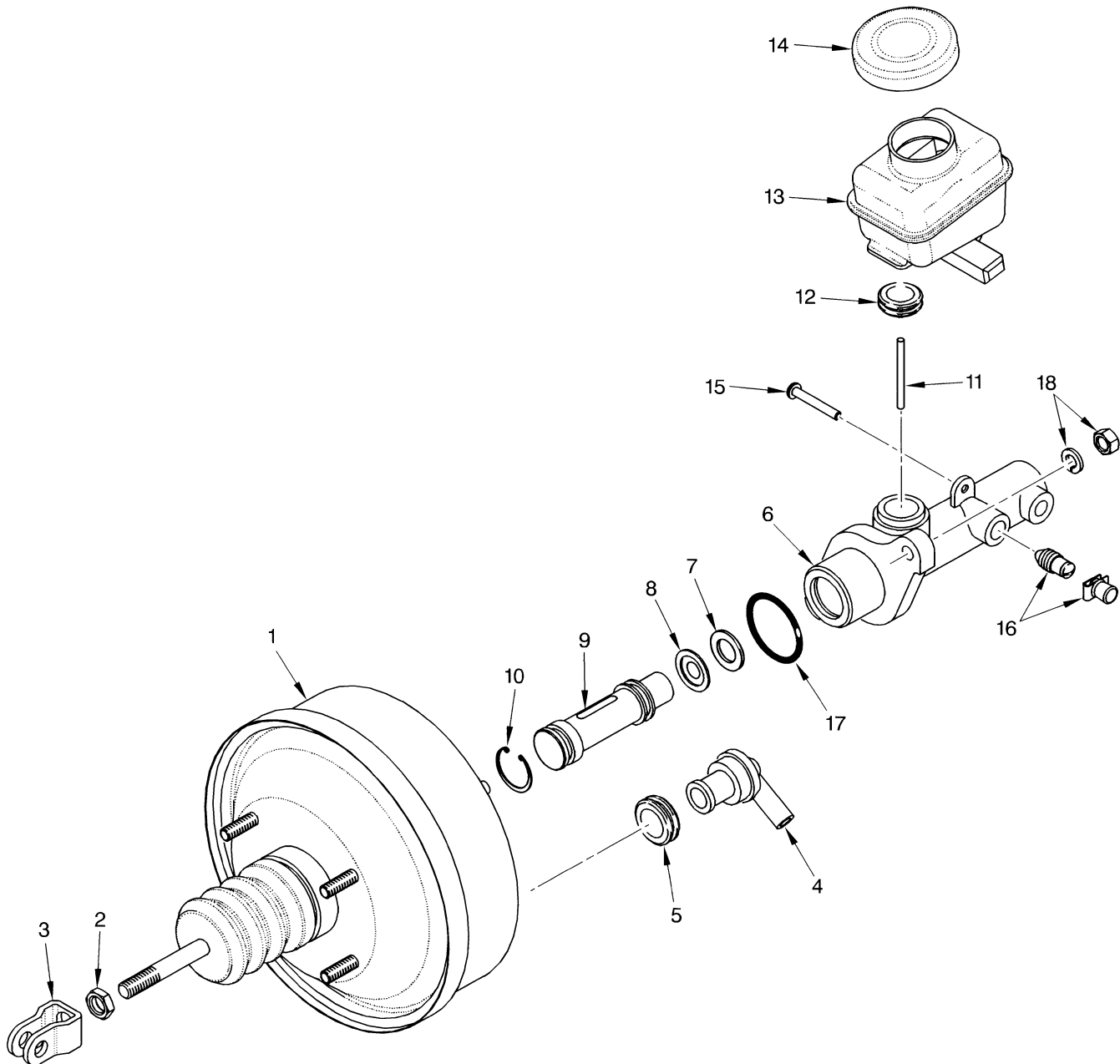
ITEM	PART NO.	DESCRIPTION	QTY
48	166857	Clamp	2
49	2004005	Strap Clamp (LPG)	1
49	2004005	Strap Clamp (Diesel)	4
50	1397649	Washer	1
51	320158	Washer	4
52	16187	Fitting.....	1
53	1499886	Filter.....	1
54	1473099	Hose	1
55	353198	Clamp	2
56	387867	Pressure Switch.....	1
57	a 302237	Screw.....	4
58	a 320154	Washer	4
59	a 2052196	Brush Seal	2
60	a 292678	Lockwasher.....	4
61	a 292667	Nut	4

FOOTNOTES:

- a** (Europe application only)
- b** H70-80XM and H90XMS
- c** H90-120XM

This image shows a full page of blank white paper with horizontal 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.

MASTER CYLINDER AND BOOSTER ASSEMBLY (Figure 8-2)

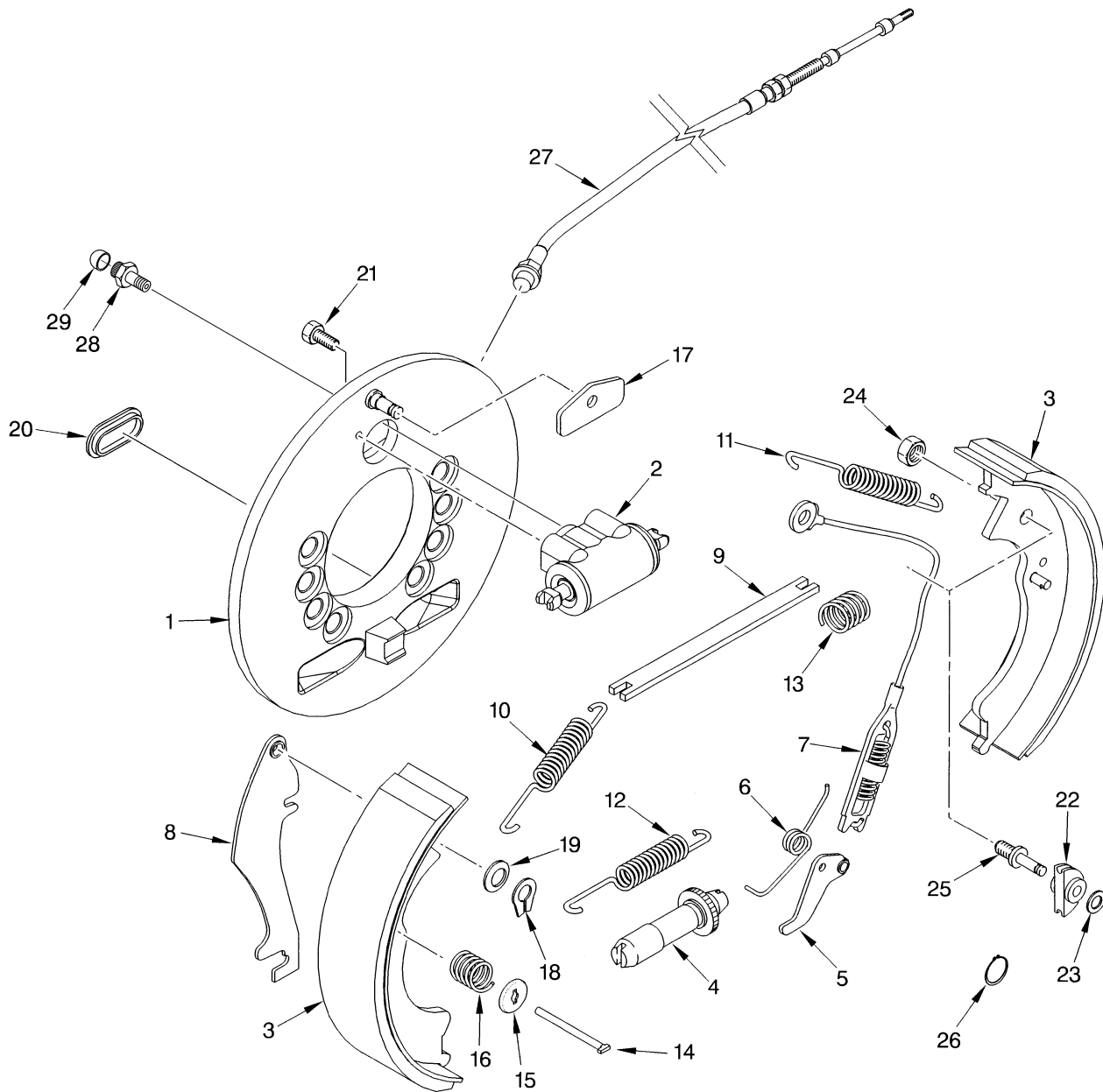


HP040010

MASTER CYLINDER AND BOOSTER ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	1399276	Master Cylinder and Booster	1
1	1463445	Booster	1
2	1463461	Nut	1
3	1463462	Clevis	1
4	1463455	Valve	1
5	1463454	Grommet	1
6	1463446	Master Cylinder	1
6	1470275	Seal Kit	1
7	1463466	Valve Seat	1
8	1463450	Check Valve	1
9	1463447	Piston	1
10	1463467	Snap Ring	1
11	1463463	Pin	1
12	1463464	Grommet	1
13	1463448	Reservoir Assembly	1
14	1463449	Cap	1
15	1463465	Screw	1
16	1463995	Bleeder Screw	1
17	1463451	O-Ring	1
18	1463993	Spring Washer Kit	1

BRAKE ASSEMBLY (Figure 8-3) H70-90XM



BP040024

**BRAKE ASSEMBLY
H70-90XM****KEY:****A: Left Hand****B: Right Hand**

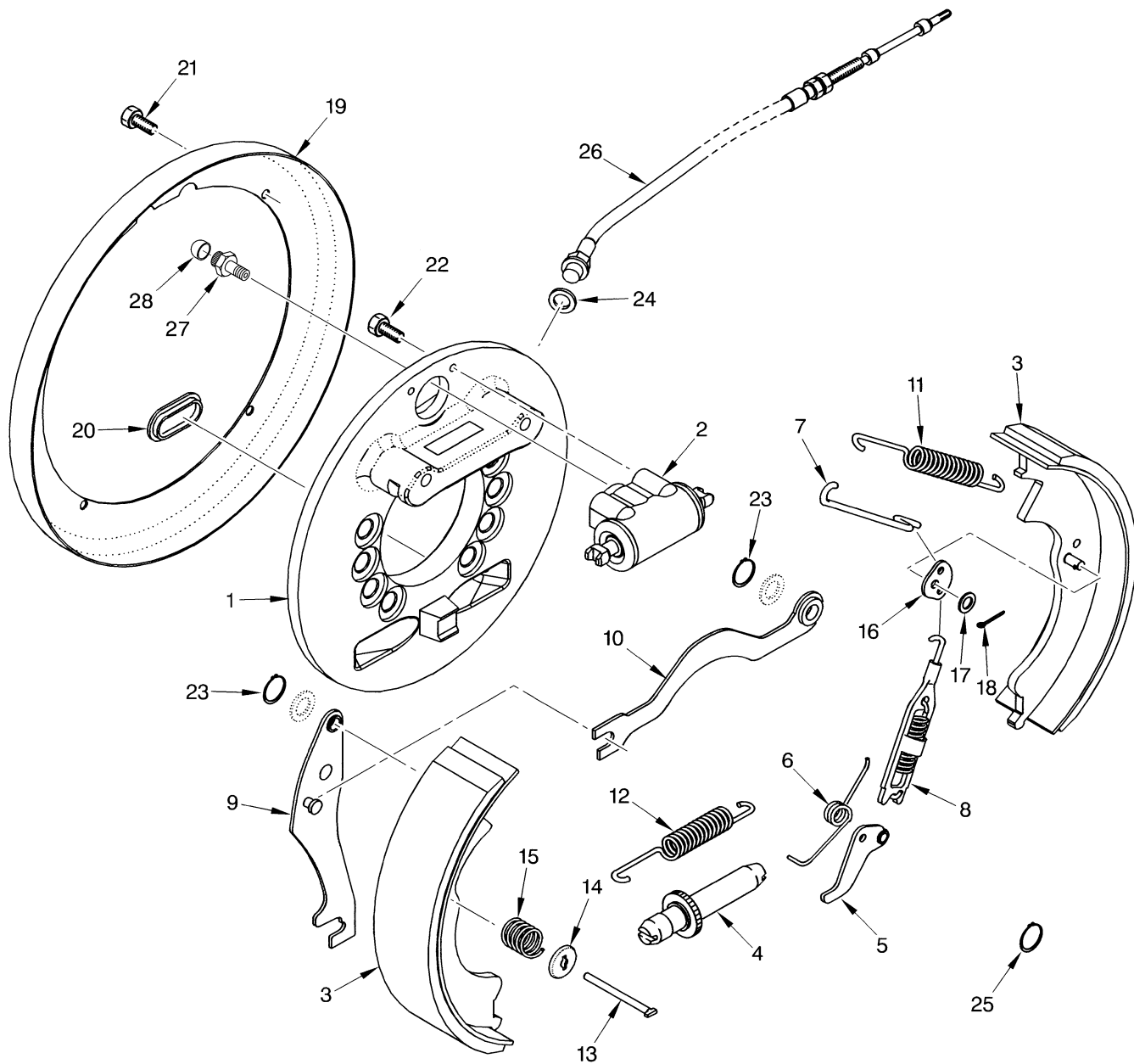
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1394681	Brake Assembly (With Park Brake Cable)	1	..
	1394682	Brake Assembly (With Park Brake Cable)	..	1
	1463245	Brake Assembly (LH) (Without Park Brake Cable)	1	..
	1463246	Brake Assembly (RH) (Without Park Brake Cable)	..	1
1	1463242	Plate	1	..
1	1463243	Plate	..	1
2	1463244	Wheel Cylinder Assembly	1	1
2	1463223	Wheel Cylinder Kit	1	1
2	.....	Piston and Cup	2	2
2	.....	Boot	2	2
3	1463226	Shoe and Lining Assembly Kit	1	..
3	1463229	Shoe and Lining Assembly Kit	..	1
3	.....	Shoe and Lining	1	1
3	.....	Shoe Lining and Pin Assembly	1	1
4	2037327	Adjuster	1	..
4	2037328	Adjuster	..	1
5	2037329	Lever	1	..
5	2037330	Lever	..	1
6	2037331	Spring	1	..
6	2037332	Spring	..	1
7	2037333	Cable And Spring Assembly	1	1
8	2037334	Parking Lever	1	..
8	2037335	Parking Lever	..	1
9	2037336	Strut	1	..
9	2037337	Strut	..	1
10	2037338	Spring	1	1
11	2037339	Spring	1	1
12	2037340	Spring	1	1
13	1360797	Spring	1	1
14	2037323	Pin (Shoe Hold Down)	2	2
15	2037341	Cup (Shoe Hold Down)	4	4
16	2037342	Spring (Shoe Hold Down)	2	2
17	2037343	Plate	1	1
18	1338916	Retainer	2	2
19	1338917	Washer	2	2
20	1334642	Cover	1	1
21	2037344	Bolt Kit	4	4
22	.....	Sheave	1	1
23	.....	Washer	1	1
24	.....	Nut	1	1
25	.....	Pin	1	1
26	1361502	Snap Ring	1	1
27	1463247	Cable (LH) (☞ Figure 8-5)	1	..
27	1463248	Cable (RH) (☞ Figure 8-5)	..	1
28	2041967	Bleeder Screw	1	1
29	1361504	Bleeder Cap	1	1

BRAKE ASSEMBLY
H70-90XM

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1464917	Sheave Kit (Includes Items 7, 10-11, 22-25)	1	1
	1464915	Park Brake Kit (LH) (Includes Items 8-9, 13, 18-19).....	1	..
	1464916	Park Brake Kit (RH) (Includes Items 8-9, 18-19)	..	1
	2038663	Spring Kit (Includes Items 10-12)	1	1
	2037377	Shoe Hold Down Kit (Includes Items 14-16)	1	1

[illegible]

BRAKE ASSEMBLY (Figure 8-4) H100-120XM



BP040023

**BRAKE ASSEMBLY
H100-120XM****KEY:****A: Left Hand****B: Right Hand**

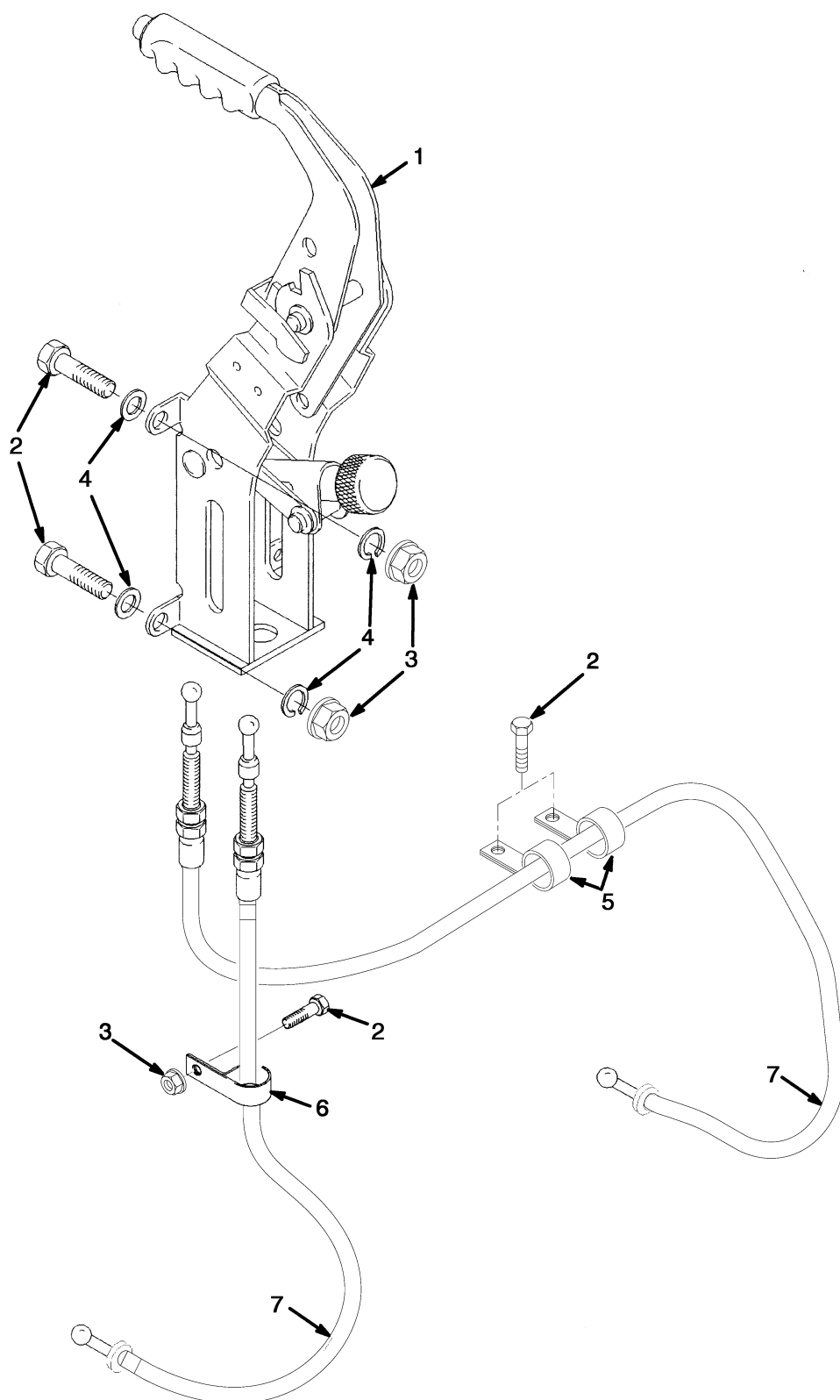
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1536792	Brake Assembly (With Park Brake Cable)	1	..
	1536793	Brake Assembly (With Park Brake Cable)	..	1
	1539589	Brake Assembly (Without Park Brake Cable)	1	..
	1539590	Brake Assembly (Without Park Brake Cable)	..	1
1	1463339	Plate	1	..
1	1463340	Plate	..	1
2	1463341	Wheel Cylinder Assembly	1	1
2	1463231	Wheel Cylinder Kit	1	1
2	.....	Piston And Cup	2	2
2	.....	Boot	2	2
2	.....	Spring	1	1
3	1532655	Shoe and Lining Assembly Kit	1	..
3	1532656	Shoe and Lining Assembly Kit	..	1
3	.....	Shoe and Lining Assembly	1	..
3	.....	Shoe and Lining Assembly	..	1
4	2037515	Adjuster	1	..
4	2037516	Adjuster	..	1
5	2037517	Lever	1	..
5	2037518	Lever	..	1
6	1463350	Spring	1	..
6	1463351	Spring	..	1
7	1463352	Link	1	..
7	1463353	Link	..	1
8	1463354	Spring and Link Assembly	1	1
9	1463355	Lever (Parking)	1	..
9	1463356	Lever (Parking)	..	1
10	1463357	Strut	1	..
10	1463358	Strut	..	1
11	1463359	Spring	2	2
12	2037519	Spring	1	1
13	2037323	Pin (Shoe Hold Down)	2	2
14	1463361	Cup (Shoe Hold Down)	4	4
15	1463362	Spring (Shoe Hold Down)	2	2
16	1463363	Lever	1	1
17	2037324	Washer	1	1
18	2037325	Cotter Pin	1	1
19	1463364	Shield	1	1
20	2037326	Cover	1	1
21	1463365	Bolt Kit	4	..
22	1463366	Bolt	2	2
23	1338916	Retainer	2	2
24	1338917	Washer	2	2
25	1361502	Snap Ring	1	1
26	1463471	Cable (☞ Figure 8-5)	1	..
26	1463472	Cable (☞ Figure 8-5)	..	1

**BRAKE ASSEMBLY
H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
27	1361503	Bleeder Screw	1	1
28	1361504	Bleeder Cap	1	1

[illegible]

PARK BRAKE (Figure 8-5)



HP040011

PARK BRAKE

ITEM	PART NO.	DESCRIPTION	QTY
1	1376557	Lever Assembly (Park Brake)	1
2	136749	Capscrew.....	5
3	1466011	Nut (Flanged).....	5
4	320158	Washer	4
5	124297	Clamp	1
6	136516	Clamp	2
7	a 1463247	Cable (LH) (H70-90XM).....	2
7	a 1463248	Cable (RH) (H70-90XM)	2
7	a 1463471	Cable (LH) (H100-120XM).....	2
7	a 1463472	Cable (RH) (H100-120 XM)	2

FOOTNOTES:

a Cables Are Included With Service Brake Assemblies

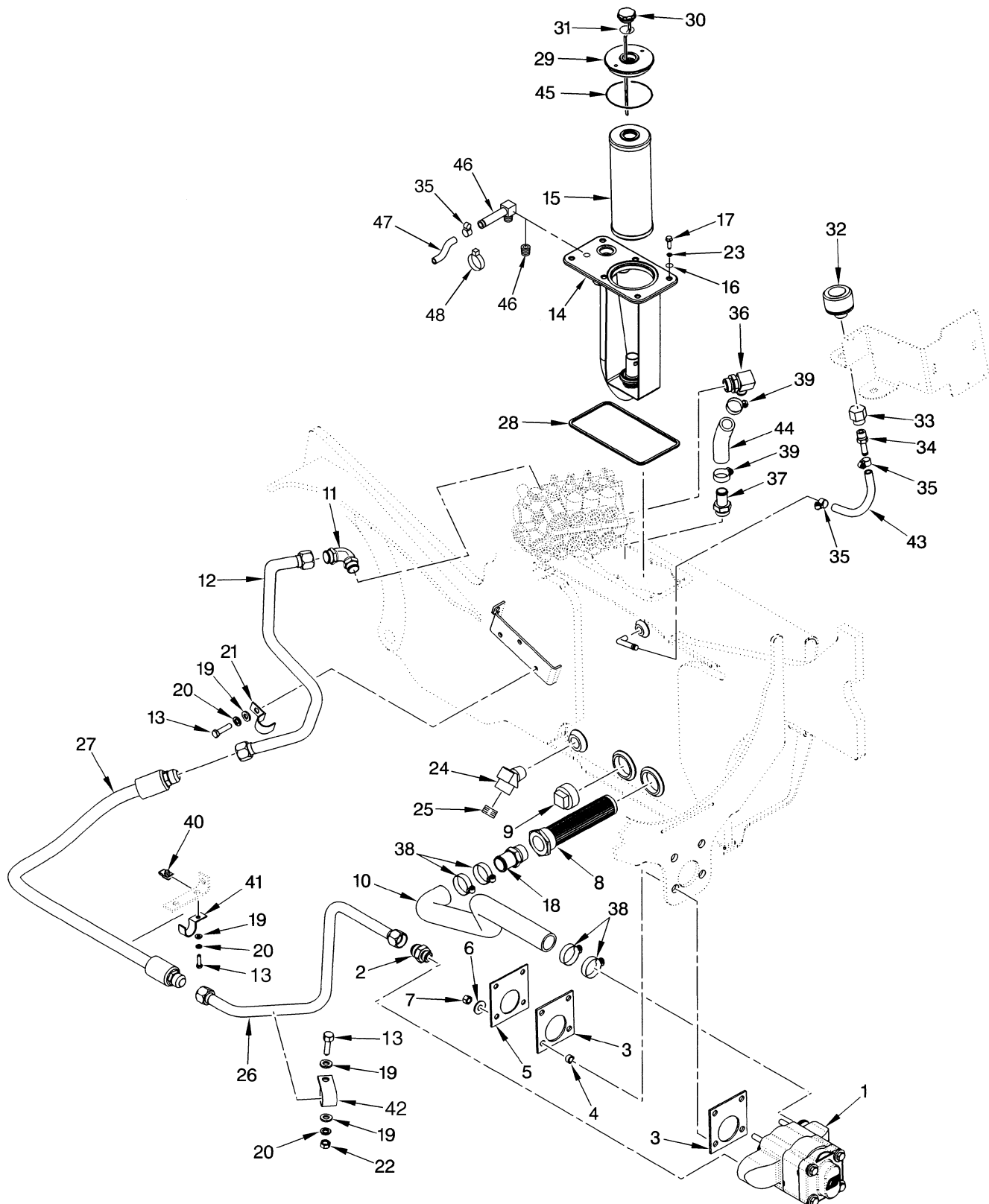
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SECTION 9

HYDRAULIC SYSTEM

DESCRIPTION	PAGE
HYDRAULIC CONTROL LINES	
FOUR FUNCTION	9-8
THREE FUNCTION	9-6
HYDRAULIC CONTROL VALVE	
THREE AND FOUR FUNCTION	9-14
HYDRAULIC CONTROL VALVE AND ATTACHING PARTS	
FOUR FUNCTION	
WITH DETENTED LEVERS.....	9-12
THREE FUNCTION	
WITH AND WITHOUT DETENTED LEVERS	9-10
HYDRAULIC FILTER HOUSING	9-16
HYDRAULIC PUMP.....	9-18
HYDRAULIC SYSTEM	9-2
MAST INSTALLATION.....	9-20
TILT CYLINDERS	9-22

HYDRAULIC SYSTEM (Figure 9-1)



BP150068

HYDRAULIC SYSTEM

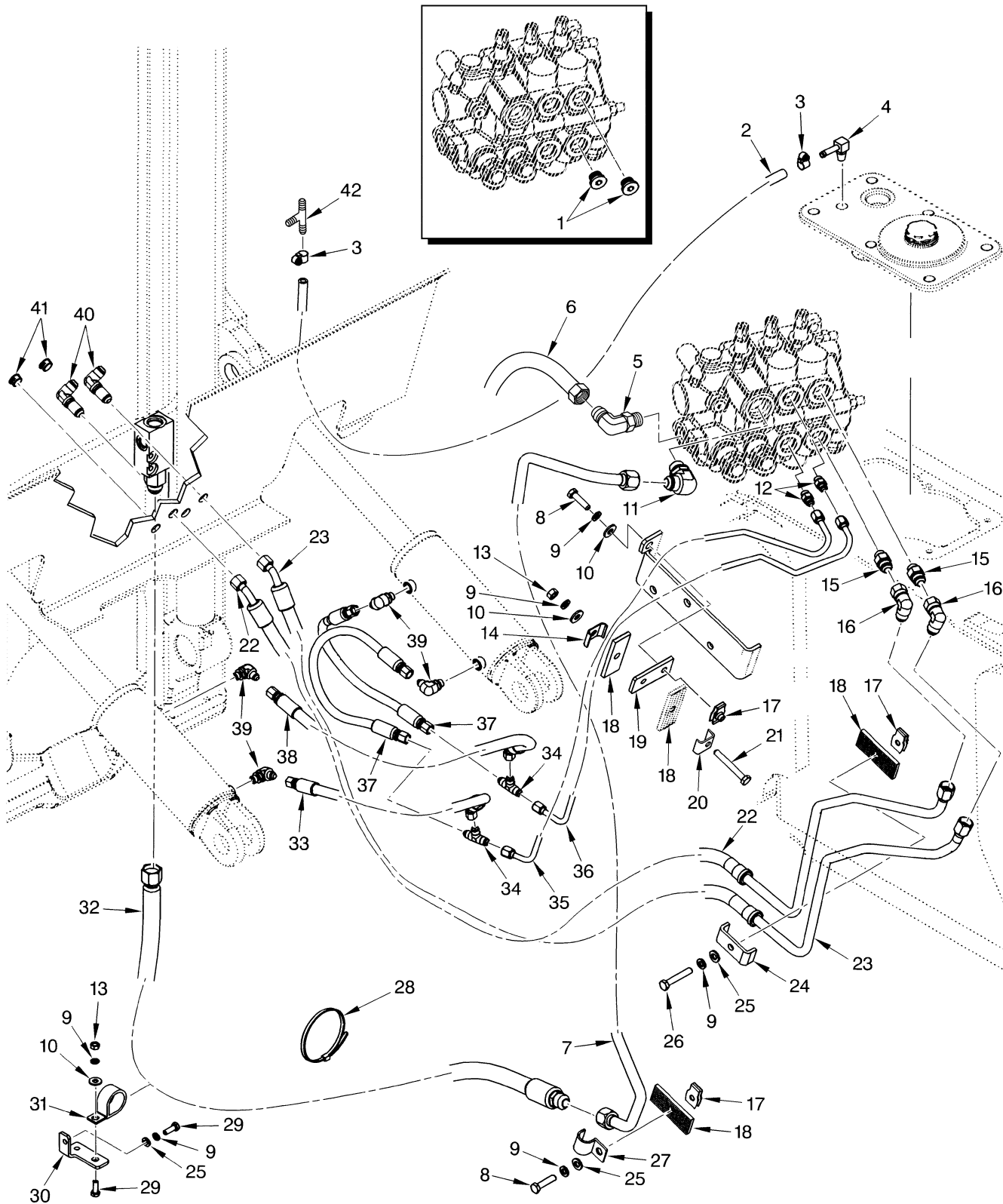
ITEM	PART NO.	DESCRIPTION	QTY
1	2038201	Hydraulic Pump (1830 mm Short Wheel Base) (☞ Figure 9-8)	1
1	2038202	Hydraulic Pump (2100 mm Long Wheel Base) (☞ Figure 9-8)	1
2	142500	Fitting.....	1
2	16486	O-Ring	1
3	1397685	Isolator.....	2
4	182891	Hose	4
5	1399823	Plate	1
6	296422	Washer	4
7	300937	Nut	4
8	1388963	Screen	1
9	15310	Fitting.....	1
10	1394453	Hose (Suction).....	1
11	1551160	Fitting.....	1
11	16486	O-Ring	1
12	1543615	Tube	1
13	132861	Capscrew.....	6
14	1397739	Hydraulic Filter Housing (☞ Figure 9-7)	1
15	2037740	Filter Element	1
16	353000	O-Ring	6
17	136681	Capscrew.....	6
18	183635	Fitting.....	1
19	320158	Washer	9
20	292681	Lockwasher.....	9
21	239370	Clamp	1
22	239503	Nut	4
23	320157	Washer	6
24	246869	Fitting (Magnetic Drain Plug)	1
25	15963	Fitting.....	1
26	1399386	Tube	1
27	1397981	Hose	1
28	1397744	Seal Ring	1
28	1477232	Adhesive	1
29	190787	Filter Head (Filter).....	1
30	1397570	Dipstick	1
31	16487	O-Ring	1
32	1356393	Breather.....	1
32	1371445	Breather (Optional)	1
33	17706	Fitting.....	1
34	222473	Fitting.....	1
35	379405	Clamp	2
36	112470	Fitting.....	1
36	16487	O-Ring	1
37	88195	Fitting.....	1
37	16487	O-Ring	1
38	119236	Clamp	4
39	127045	Clamp	2
40	1393879	Clip Nut.....	6
41	1399334	Clamp	2
42	76382	Clamp	1
43	78456	Hose	1
44	1401537	Hose	1

HYDRAULIC SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
44	1475160	Hose (Optional)	1
44	325897	Clamp	1
45	39742	O-Ring	1
46	15314	Fitting (2 FFL)	1
46	102898	Fitting (2 LFL and 3 FFL Masts)	1
47	1399121	Hose	1
48	397676	Strap Clamp.....	1

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

HYDRAULIC CONTROL LINES (Figure 9-2) THREE FUNCTION

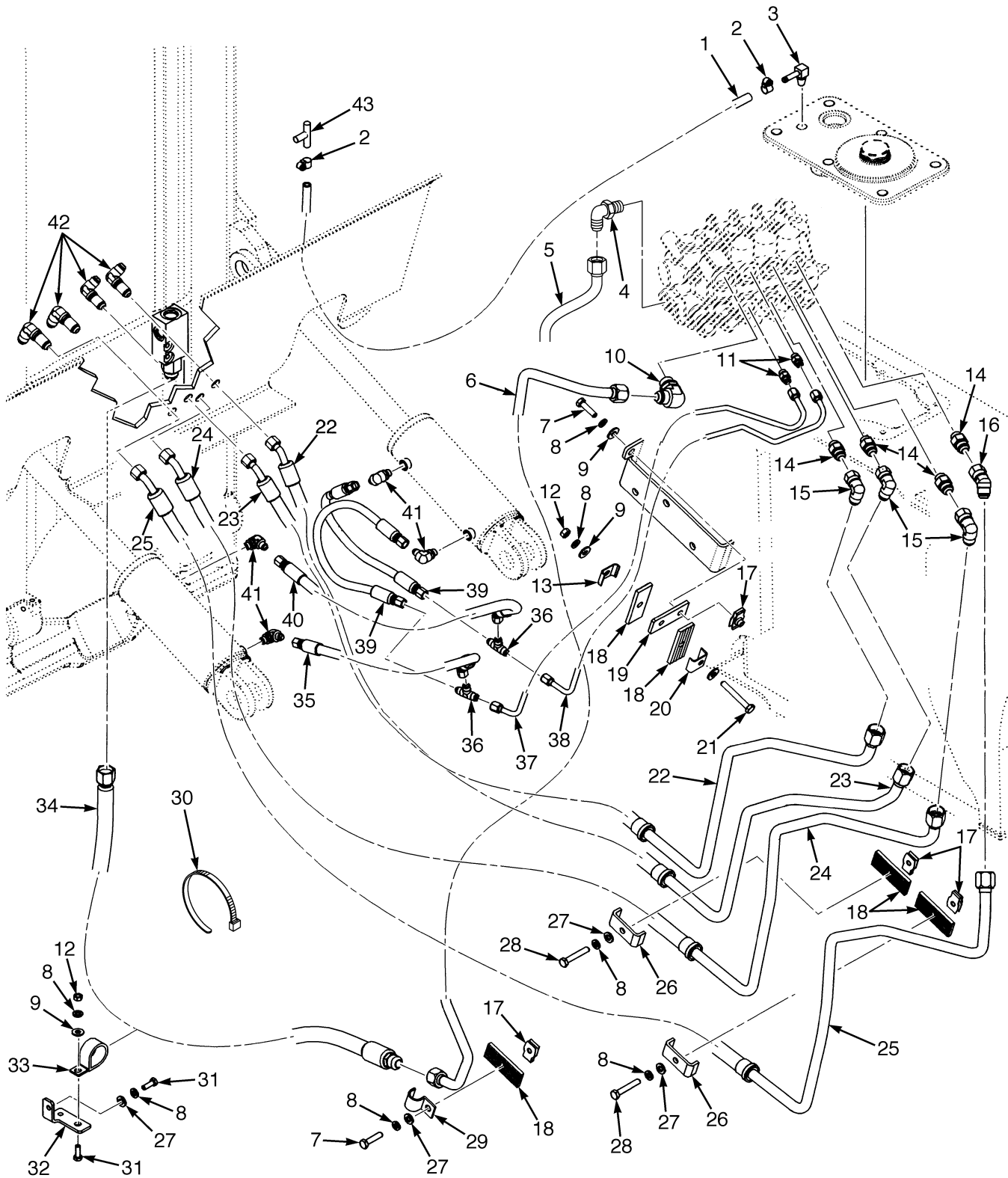


BP150072

**HYDRAULIC CONTROL LINES
THREE FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1363917	Plug	2
2	1399121	Hose (3 FFL, 2 LFL)	1
3	379405	Clamp	2
4	102898	Fitting.....	1
5	16559	Fitting.....	1
6	1543616	Hose (Steering Supply)	1
7	1543617	Tube (Hoist)	1
8	132861	Capscrew.....	6
9	292681	Lockwasher.....	5
10	320158	Washer	6
11	16561	Fitting.....	1
11	16486	O-Ring	1
12	16745	Fitting.....	2
12	16483	O-Ring	1
13	239503	Nut	4
14	193239	Clamp	1
15	206150	Fitting.....	2
15	16484	O-Ring	1
16	16882	Fitting.....	2
17	1393879	Clip Nut.....	6
18	1399323	Pad	3
19	1550643	Plate	2
20	1400244	Clamp	1
21	136704	Capscrew.....	1
22	1550942	Hose And Tube Assembly.....	1
23	1399417	Hose And Tube Assembly.....	1
24	1397682	Clamp	1
25	320157	Washer	3
26	292509	Capscrew.....	1
27	128409	Clamp	1
28	397676	Strap Clamp.....	AR
29	136749	Capscrew.....	2
30	2037894	Bracket.....	1
31	258590	Clamp	1
32	1399787	Hose	1
33	1397984	Hose	1
34	14560	Fitting.....	2
35	1550926	Tube (Tilt).....	1
36	1550927	Tube (Tilt).....	1
37	1388776	Hose	2
38	1388954	Hose	1
39	16558	Fitting.....	4
39	16483	O-Ring	1
40	16458	Fitting.....	2
41	1389590	Plug	2
42	2046871	Fitting.....	1

HYDRAULIC CONTROL LINES (Figure 9-3) FOUR FUNCTION

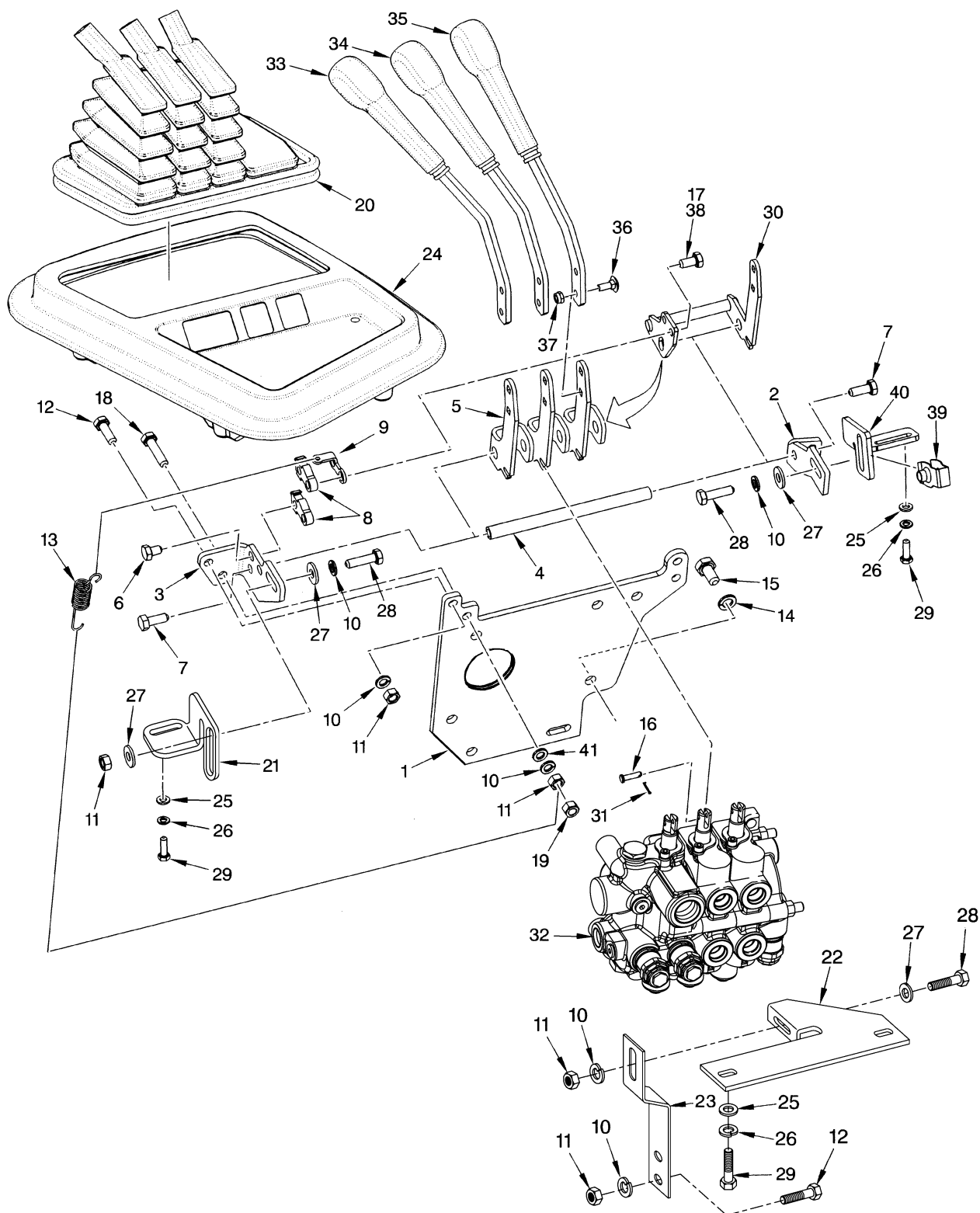


BP150073

**HYDRAULIC CONTROL LINES
FOUR FUNCTION**

ITEM	PART NO.	DESCRIPTION	QTY
1	1399121	Hose (2 LFL, 3 FFL)	1
2	379405	Clamp	2
3	102898	Fitting.....	1
4	16559	Fitting.....	1
5	1543616	Hose (Steering Supply)	1
6	1543617	Tube (Hoist)	1
7	132861	Capscrew.....	1
8	292681	Lockwasher.....	11
9	320158	Washer	6
10	16561	Fitting.....	1
10	16486	O-Ring	1
11	16745	Fitting.....	2
11	16483	O-Ring	1
12	239503	Nut	2
13	193239	Clamp	1
14	206150	Fitting.....	4
14	16484	O-Ring	1
15	16882	Fitting.....	3
16	17039	Fitting.....	1
17	1393879	Clip Nut.....	3
18	1399323	Pad	4
19	1550643	Plate	1
20	1400244	Clamp	1
21	136704	Capscrew.....	1
22	1550942	Hose And Tube Assembly.....	1
23	1399417	Hose And Tube Assembly.....	1
24	1399419	Hose and Tube Assembly	1
25	1399420	Hose and Tube Assembly	1
26	1397682	Clamp	3
27	320157	Washer	4
28	292509	Capscrew.....	3
29	128409	Clamp	1
30	397676	Strap Clamp.....	AR
31	136749	Capscrew.....	2
32	2037894	Bracket.....	1
33	258590	Clamp	2
34	1399787	Hose	1
35	1397984	Hose	1
36	14560	Fitting.....	2
37	1550926	Tube (Tilt).....	1
38	1550927	Tube (Tilt).....	1
39	1388776	Hose	2
40	1388954	Hose	1
41	16558	Fitting.....	5
41	16483	O-Ring	1
42	16458	Fitting.....	4
43	2046871	Fitting.....	1

HYDRAULIC CONTROL VALVE AND ATTACHING PARTS (Figure 9-4) THREE FUNCTION WITH AND WITHOUT DETENTED LEVERS



BP140020

HYDRAULIC CONTROL VALVE AND ATTACHING PARTS

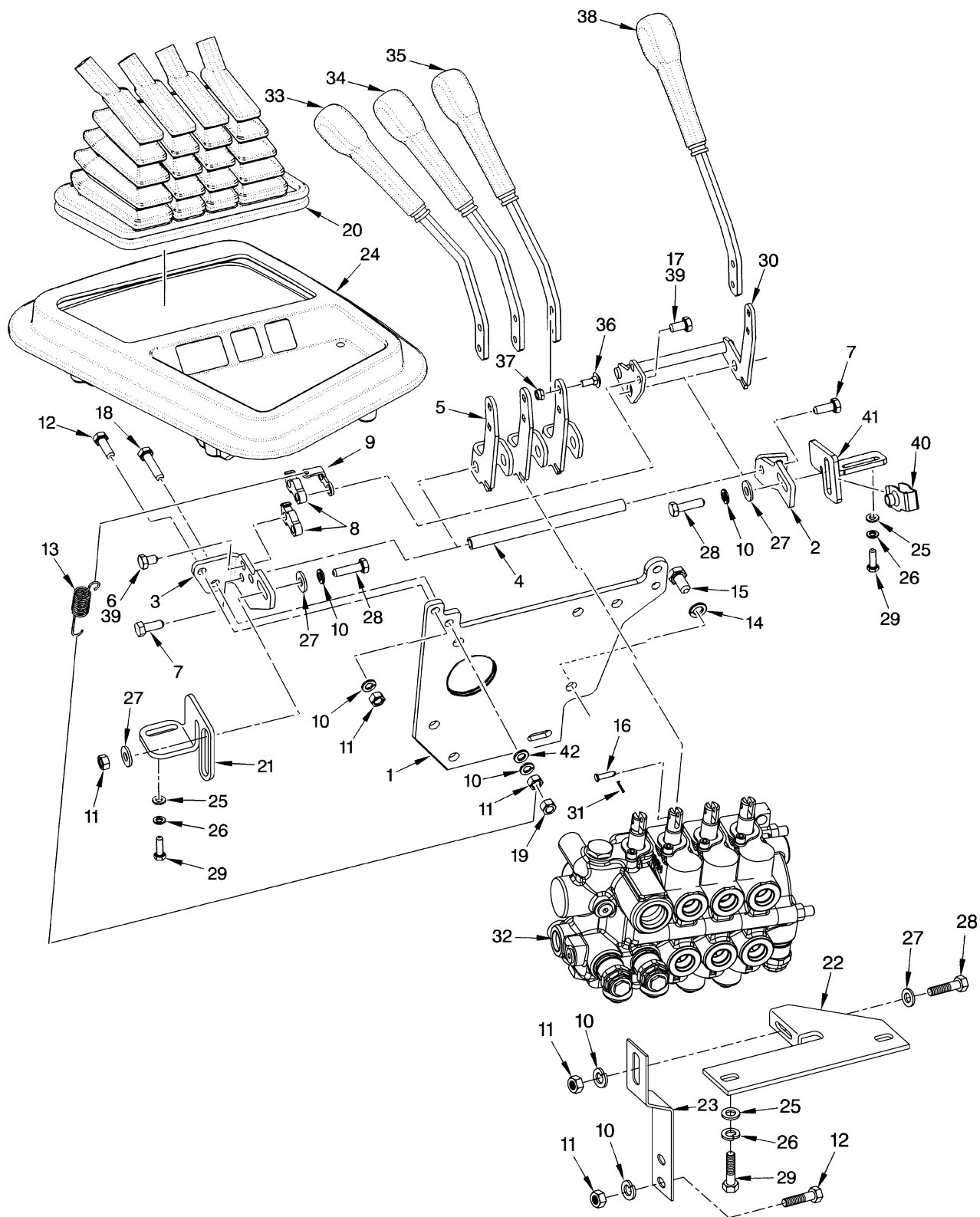
THREE FUNCTION

WITH AND WITHOUT DETENTED LEVERS

KEY:**A: With Detented Levers****B: Without Detented Levers**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1544207	Bracket.....	1	1
2	1548231	Bracket (RH)	1	1
3	1548232	Bracket (LH).....	1	1
4	1343443	Pivot.....	1	1
5	1339749	Crank	2	3
5	1339749	Crank	2	..
6	293611	Capscrew.....	2	..
7	1328930	Capscrew.....	2	2
8	1339745	Lock	2	..
9	1339746	Plate	1	..
10	292681	Lockwasher.....	11	11
11	239503	Nut	7	7
12	136749	Capscrew.....	5	6
13	1396708	Spring	1	..
14	292682	Lockwasher.....	3	3
15	292514	Capscrew.....	2	2
16	309109	Rod End Pin	3	3
17	293612	Capscrew.....	2	..
18	136985	Capscrew.....	1	..
19	136692	Nut	1	..
20	2036476	Boot	1	1
21	1551997	Bracket.....	1	1
22	1396715	Bracket.....	1	1
23	1399380	Strut	1	1
24	1396108	Cover (Without Disconnect Switch)	1	..
24	1397511	Cover (With Disconnect Switch)	1	1
25	320156	Washer	4	4
26	292680	Lockwasher.....	4	4
27	320158	Washer	9	9
28	176640	Capscrew.....	3	3
29	292501	Capscrew.....	4	4
30	1339770	Crank	1	..
31	15200	Cotter Pin.....	3	3
32	1543927	Control Valve (☞ Figure 9-6)	1	1
33	1396014	Lever (Hoist)	1	1
34	1396015	Lever (Tilt).....	1	1
35	1396016	Lever (Auxiliary)	2	1
36	308980	Bolt	6	6
37	316834	Nut	6	6
38	264134	Sealant	AR	..
39	1393879	Clip Nut	2	2
40	1397678	Bracket.....	1	1
41	320159	Washer	1	1

HYDRAULIC CONTROL VALVE AND ATTACHING PARTS (Figure 9-5) FOUR FUNCTION WITH DETENTED LEVERS

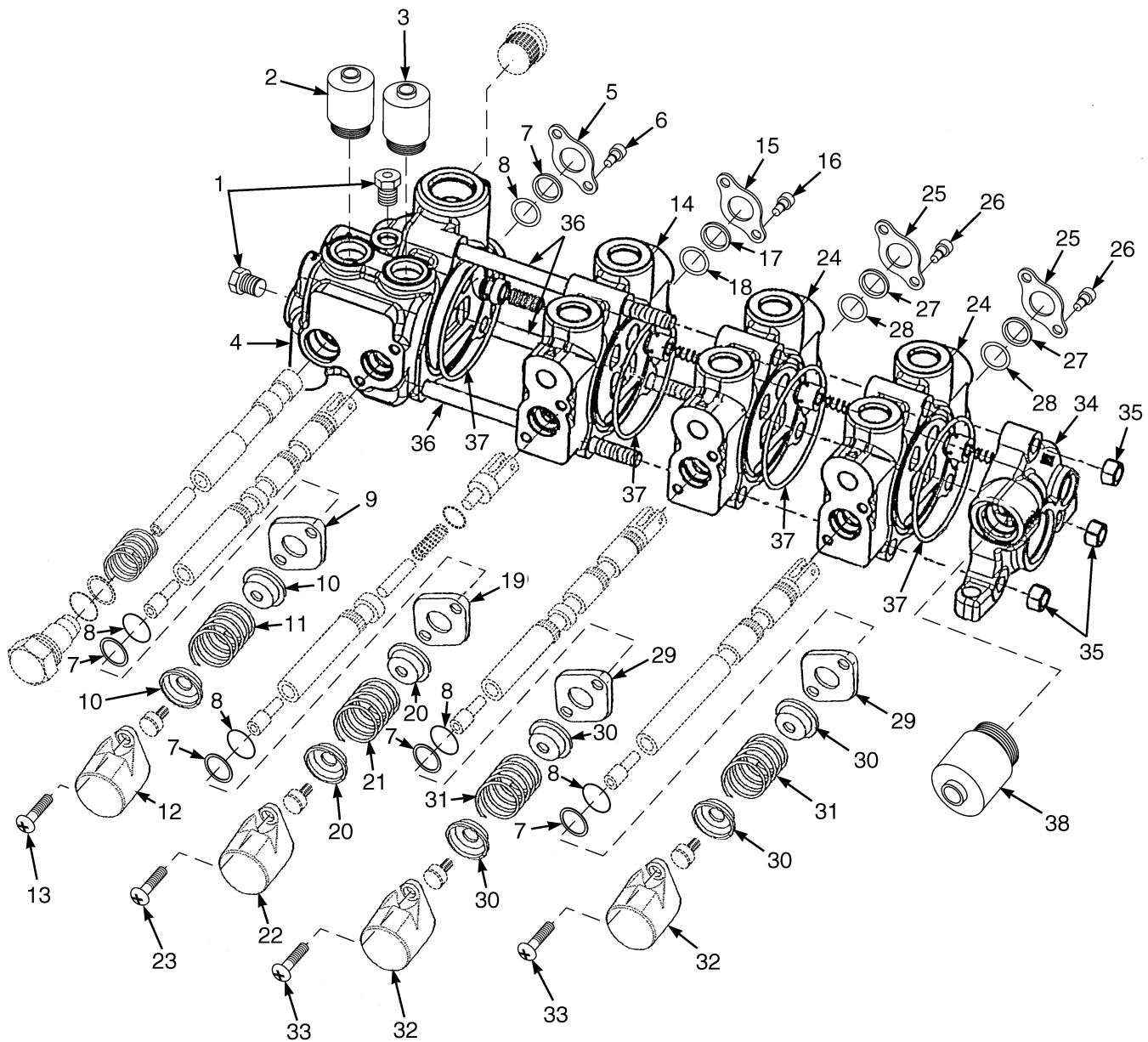


BP140022

HYDRAULIC CONTROL VALVE AND ATTACHING PARTS FOUR FUNCTION WITH DETENTED LEVERS

ITEM	PART NO.	DESCRIPTION	QTY
1	1544207	Bracket.....	1
2	1548231	Bracket (RH)	1
3	1548232	Bracket (LH).....	1
4	1343443	Pivot.....	1
5	1339749	Crank	3
6	293611	Capscrew.....	2
7	1328930	Capscrew.....	2
8	1339745	Lock	2
9	1339746	Plate	1
10	292681	Lockwasher.....	11
11	239503	Nut	7
12	136749	Capscrew.....	5
13	1396708	Spring	1
14	292682	Lockwasher.....	3
15	292514	Capscrew.....	2
16	309109	Rod End Pin	4
17	293612	Capscrew.....	1
18	136985	Capscrew.....	1
19	136692	Nut	1
20	2036477	Boot	1
21	1551997	Bracket.....	1
22	1396715	Bracket.....	1
23	1399380	Strut	1
24	1396108	Cover (Without Disconnect Switch)	1
24	1397511	Cover (With Disconnect Switch)	1
25	320156	Washer	4
26	292680	Lockwasher.....	4
27	320158	Washer	9
28	176640	Capscrew.....	5
29	292501	Capscrew.....	4
30	1339748	Crank	1
31	15200	Cotter Pin.....	4
32	1543928	Control Valve (With Detented Levers) (☞ Figure 9-6)	1
33	1396014	Lever (Hoist)	1
34	1396015	Lever (Tilt).....	1
35	1396016	Lever (Auxiliary)	2
36	308980	Bolt	8
37	316834	Nut	8
38	1396017	Lever (Auxiliary)	2
39	264134	Sealant	AR
40	1393879	Clip Nut.....	2
41	1397678	Bracket.....	1
42	320159	Washer	1

HYDRAULIC CONTROL VALVE (Figure 9-6) THREE AND FOUR FUNCTION

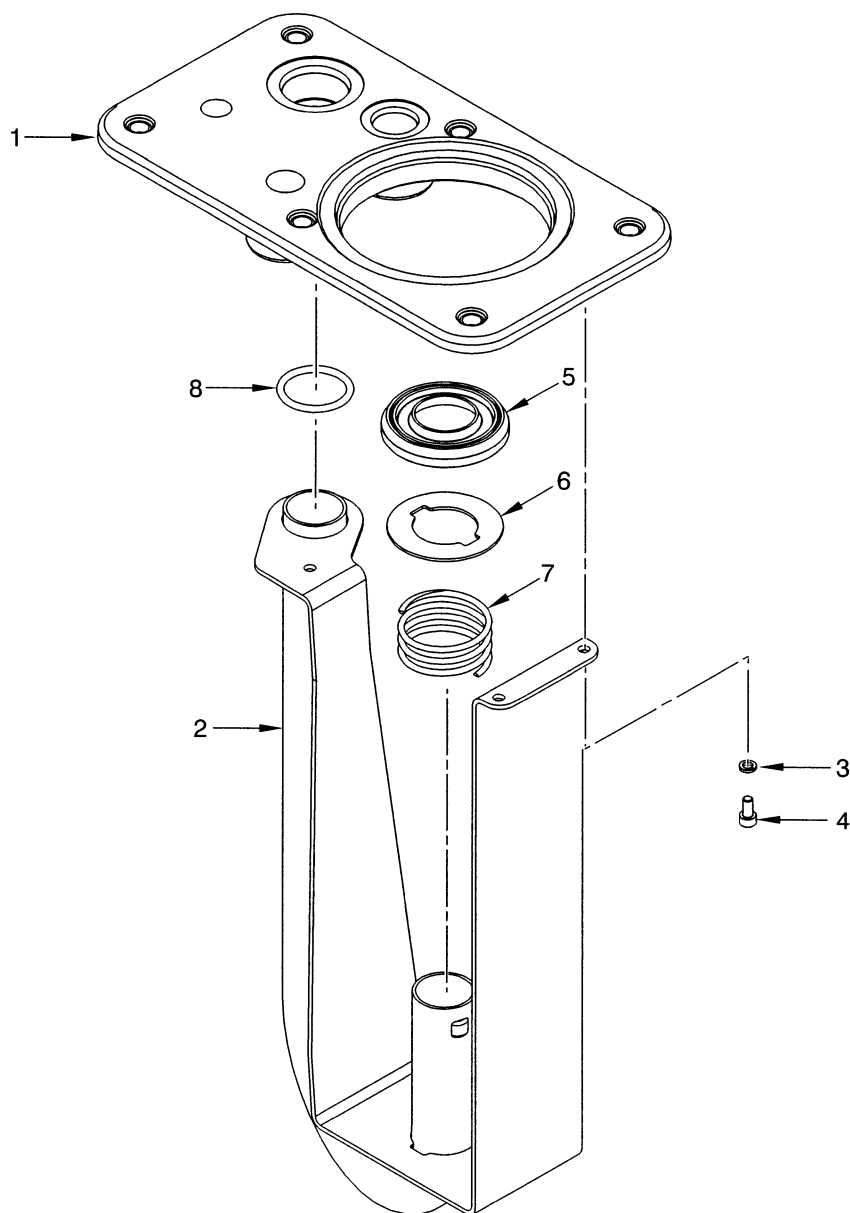


BP140027

**HYDRAULIC CONTROL VALVE
THREE AND FOUR FUNCTION****KEY:****A: Three Function Valve****B: Four Function Valve**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	1543927	Control Valve (Three Function).....	1	..
	1543928	Control Valve (Four Function).....	..	1
1	14591	Fitting.....	2	2
2	1559975	Valve (Steer Relief)	1	1
3	1559973	Valve (Main Relief)	1	1
4	1559969	Inlet And Hoist Spool Section.....	1	1
5	.....	Seal Plate.....	1	1
6	.....	Capscrew	2	2
7	.....	Wiper.....	2	2
8	.....	O-Ring.....	2	2
9	.....	Seal Plate.....	1	1
10	.....	Spring Seat	2	2
11	.....	Spring.....	1	1
12	.....	Cap	1	1
13	.....	Capscrew	2	2
14	1559970	Tilt Spool Section	1	1
15	.....	Seal Plate.....	1	1
16	.....	Capscrew	2	2
17	.....	Wiper.....	2	2
18	.....	O-Ring.....	2	2
19	.....	Seal Plate.....	1	1
20	.....	Spring Seat	2	2
21	.....	Spring.....	1	1
22	.....	Cap	1	1
23	.....	Capscrew	2	1
24	1559971	Accessory Spool Section (Third and Fourth Function).....	1	2
25	.....	Seal Plate.....	1	1
26	.....	Capscrew	2	2
27	.....	Wiper.....	2	2
28	.....	O-Ring.....	2	2
29	.....	Seal Plate.....	1	1
30	.....	Spring Seat	2	2
31	.....	Spring.....	1	1
32	.....	Cap	1	1
33	.....	Capscrew	2	2
34	1559972	Outlet Section.....	1	1
35	.....	Nut.....	3	3
36	.....	Tie Rod.....	3	3
37	.....	O-Ring.....	5	5
38	1559974	Valve (Secondary Relief).....	1	1
	1559976	Tie Rod Kit (Three Function) (Includes Items 35-36)	1	1
	1559986	Tie Rod Kit (Four Function) (Includes Items 35-36)	1	1
	1559977	Seal Kit (Services up to five sections) (Includes Items 7-8, 17-18, 27-28, 37).....	1	1
	1559978	End Kit (Services one section) (Includes Items 5-13, 15-23, 25-33).....	1	1

HYDRAULIC FILTER HOUSING (Figure 9-7)

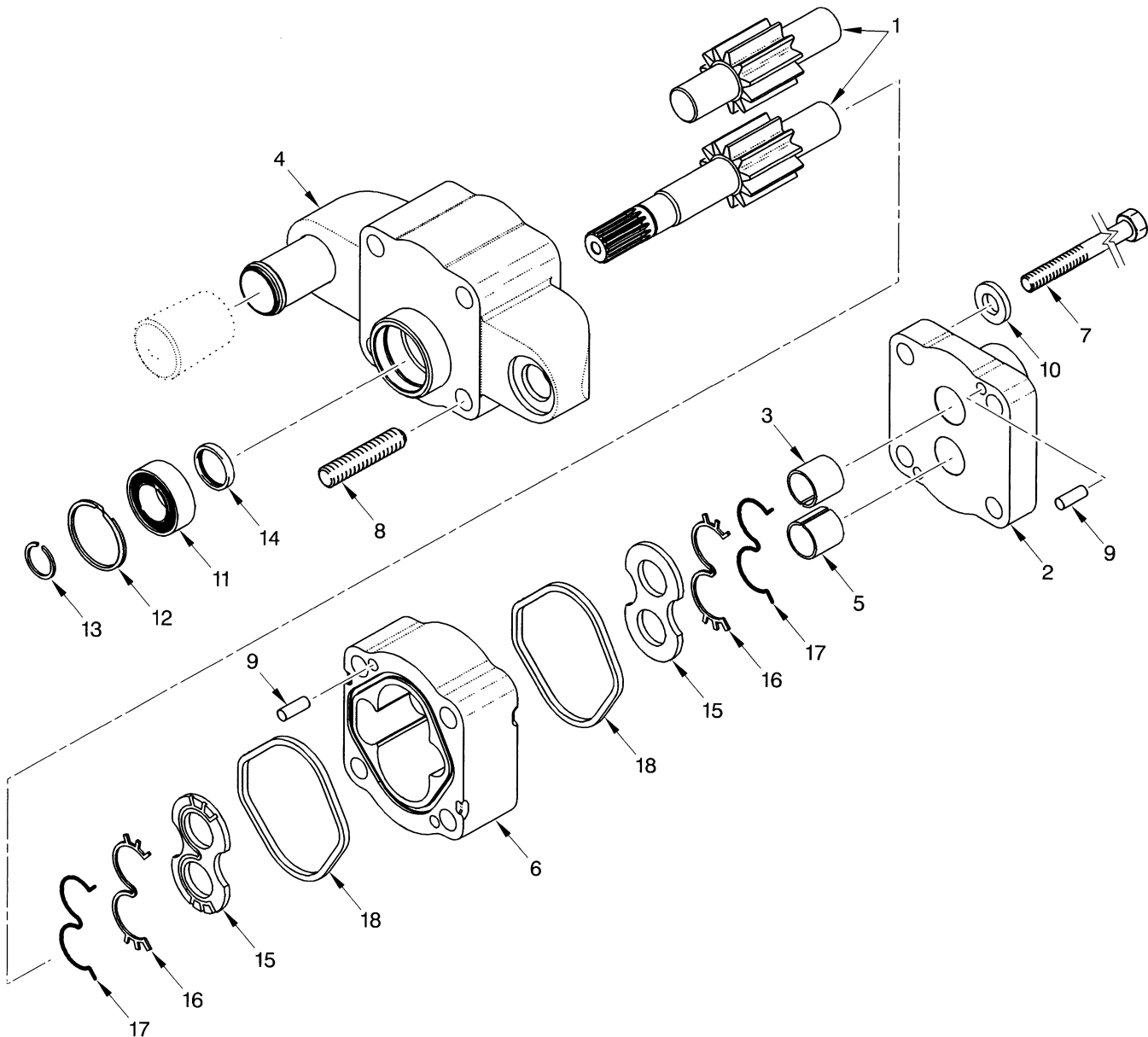


HP240189

HYDRAULIC FILTER HOUSING

ITEM	PART NO.	DESCRIPTION	QTY
	1397739	Hydraulic Filter Housing.....	1
1	1397796	Cover.....	1
2	1397740	Bracket (Filter)	1
3	293778	Washer	3
4	293741	Capscrew	3
5	181941	Seal (Tube).....	1
6	190785	Washer	1
7	190784	Spring.....	1
8	55434	O-Ring	1

HYDRAULIC PUMP (Figure 9-8)

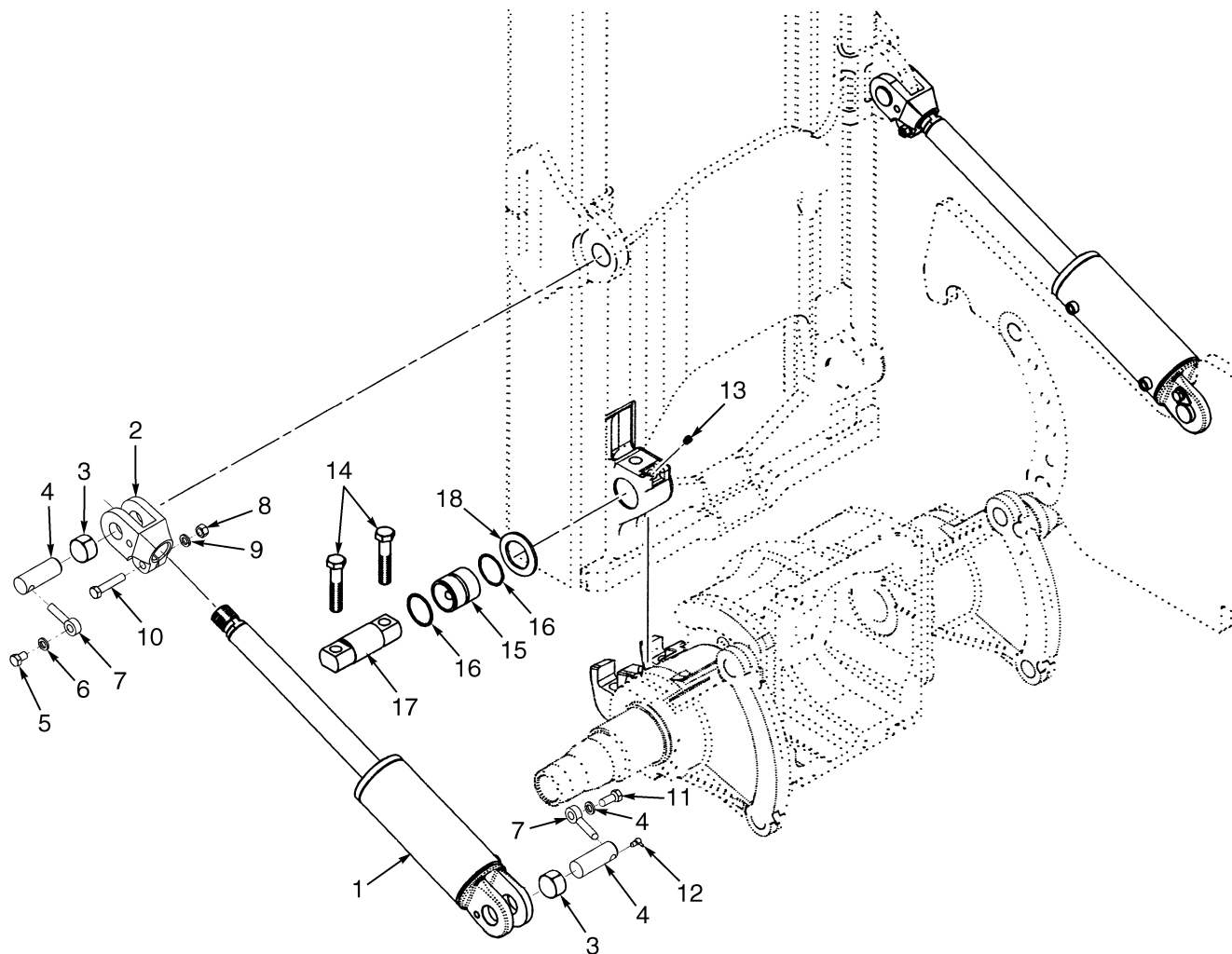


HP150029

HYDRAULIC PUMP**KEY:****A: 2100 mm Long Wheel Base****B: 1830/1880 mm Short Wheel Base**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2038201	Hydraulic Pump	..	1
	2038202	Hydraulic Pump	1	..
1	1468469	Gear Set	1	..
1	1468468	Gear Set	..	1
2	1466442	Cover (Port End).....	1	1
3	1360875	Bushing	2	2
4	1466443	Cover (Shaft End).....	1	1
5	1360875	Bushing	2	2
6	1466444	Housing	1	..
6	1468578	Housing	..	1
7	1466446	Capscrew	4	4
8	1466447	Stud	4	4
9	1151722	Pin	4	4
10	176167	Washer	4	4
11	1466396	Bearing	1	1
12	311277	Snap Ring.....	1	1
13	1466397	Snap Ring.....	1	1
14	176169	Seal	1	1
15	.....	Plate	2	2
16	1453776	Seal	2	2
17	1453775	Seal	2	2
18	176173	Seal	2	2
	1466394	Seal Kit (Outer) (Includes Items 11-14)	1	1
	1468470	Seal Kit (Inner) (Includes Items 16-18, 21)	1	1
	1468576	Thrust Plate Kit.....	1	1

MAST INSTALLATION (Figure 9-9)



HP150804

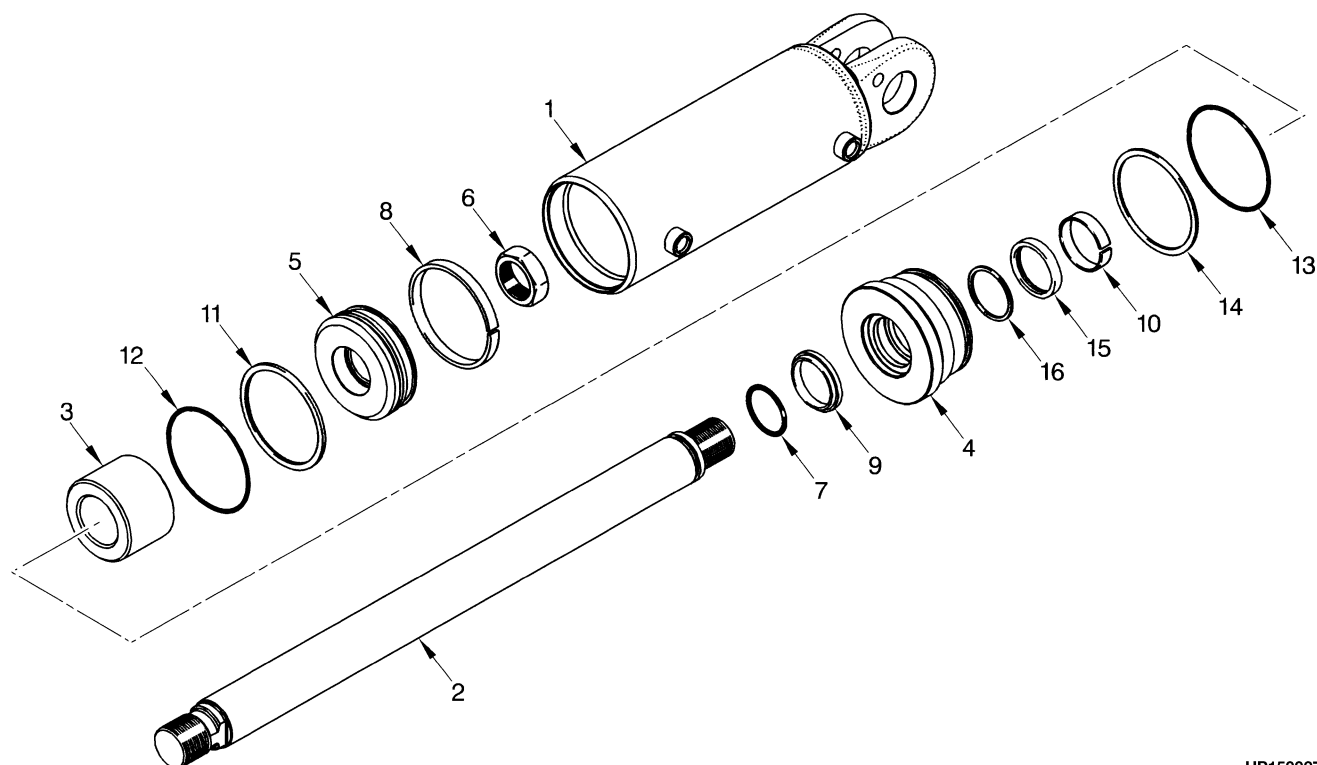
MAST INSTALLATION

ITEM		PART NO.	DESCRIPTION	QTY
1	ab	2035312	Tilt Cylinder (☞ Figure 9-10)	2
1	c	2035314	Tilt Cylinder (☞ Figure 9-10)	2
2	bc	248462	Rod End.....	2
2	a	352288	Rod End.....	2
3		192429	Bushing.....	4
4		1532691	Tilt Pin.....	4
5		16830	Capscrew.....	2
6		15158	Lockwasher.....	2
7		241079	Anchor	4
8		216877	Nut	2
9		292683	Lockwasher.....	4
10		292531	Capscrew.....	2
11		292527	Capscrew.....	2
12		16001	Lube Fitting.....	4
13		16015	Lube Fitting.....	2
14		1394689	Capscrew.....	4
15		1485449	Bushing.....	2
16		1465518	Snap Ring.....	4
17		1485443	Pin	2
18		1502645	Washer	2

FOOTNOTES:

- a** 12° Forward/6° Back
b 6° Forward/12° Back
c 6° Forward/6° Back

TILT CYLINDERS (Figure 9-10)



HP150027

ITEM	PART NO.	DESCRIPTION	QTY
	a 2035312	Tilt Cylinder.....	2
	b 2035314	Tilt Cylinder.....	2
1	2035315	Tube.....	1
2	a 2035316	Rod.....	1
2	b 2035318	Rod.....	1
3	b 1383031	Spacer.....	1
4	1380878	Gland.....	1
5	352247	Piston.....	1
6	2036547	Nut.....	1
7	199917	O-Ring.....	1
8	352287	Guide Ring.....	1
9	193554	Rod Wiper.....	1
10	334155	Wear Ring.....	1
11	2044372	Piston Seal.....	1
12	199917	O-Ring.....	1
13	46629	O-Ring.....	1
14	270330	Back-Up Ring.....	1
15	1381085	Rod Seal (Rod).....	1
16	638248	Back-Up Ring.....	1
	1493306	Seal Kit (Includes Items 7-11, 13-16).....	1

FOOTNOTES:

a 6° Forward/12° Back, 12° Forward/6° Back

b 6° Forward/6° Back

10

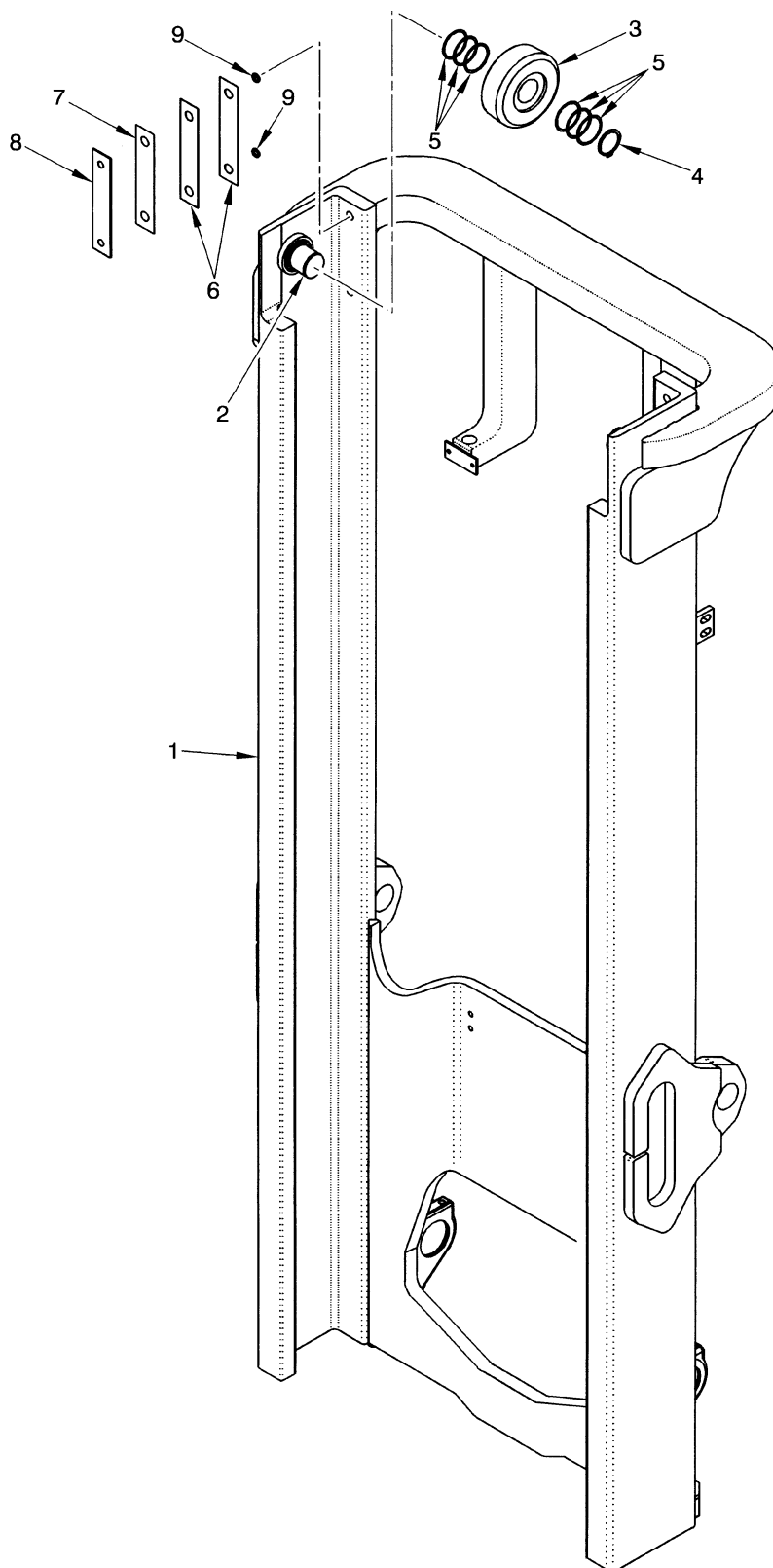
MAST-TWO STAGE LIMITED FREE-LIFT

SECTION 10

MAST-TWO STAGE LIMITED FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
TWO STAGE LIMITED FREE-LIFT	10-14
HEADER HOSE	
TWO STAGE LIMITED FREE-LIFT	10-16
INNER MAST	
TWO STAGE LIMITED FREE-LIFT	10-4
MAIN LIFT	
TWO STAGE LIMITED FREE-LIFT	10-6
MAIN LIFT CYLINDERS	
TWO STAGE LIMITED FREE-LIFT	10-10
OUTER MAST	
TWO STAGE LIMITED FREE-LIFT	10-2

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



HP170039

**OUTER MAST
TWO STAGE LIMITED FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4190 mm (165.0 in.)	6890 mm (271.3 in.)
	Mast Group Number	A750 2790	A750 3390	A750 3990	A750 4190	A750 6890
1	Outer Mast	1395342	1395348	1395354	1395356	1395383

H70-90XM

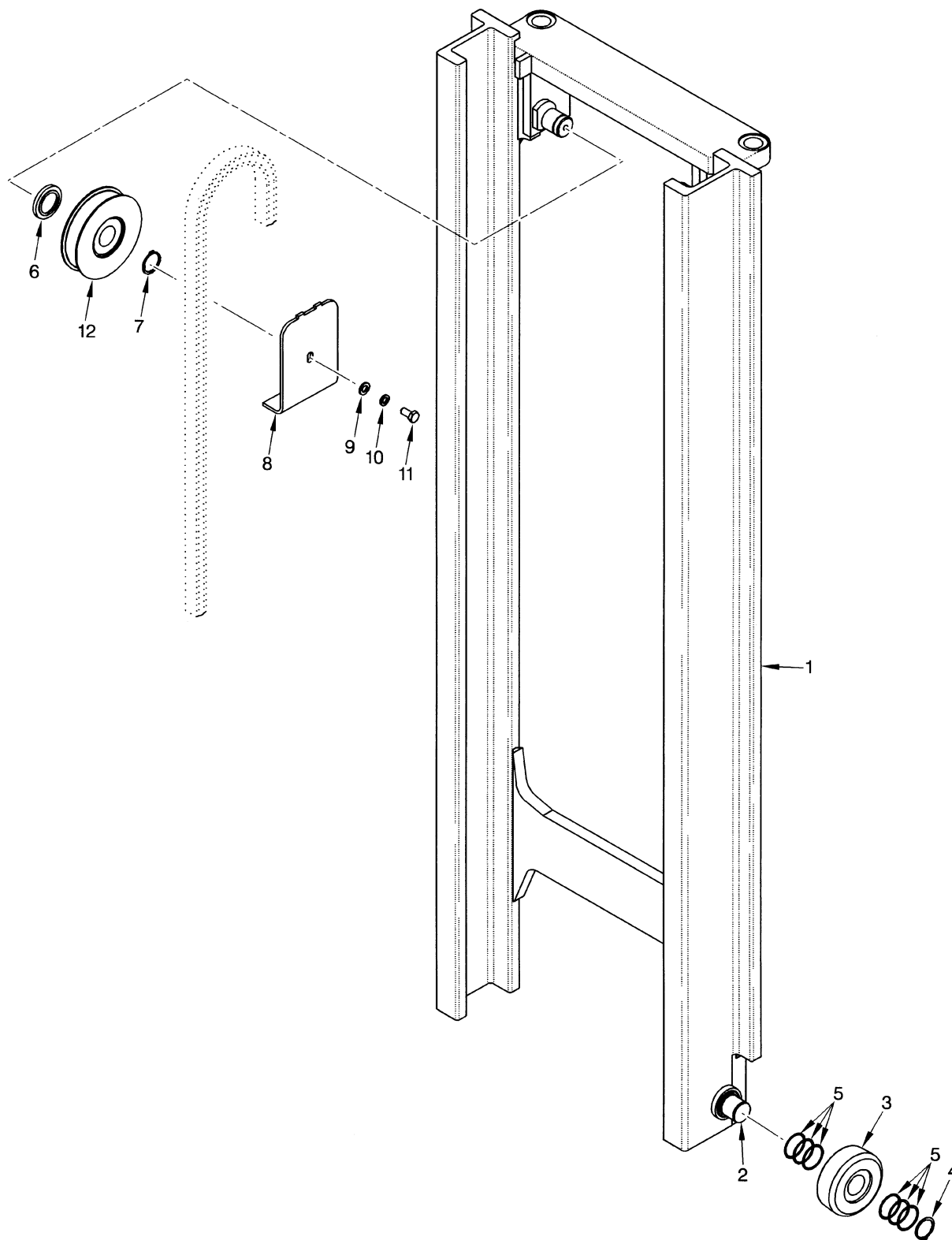
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4150 mm (163.4 in.)	4250 mm (167.3 in.)	7150 mm (281.5 in.)
	Mast Group Number	A749 3050	A749 3650	A749 4150	A749 4250	A749 7150
1	Outer Mast	1395342	1395348	1395353	1395354	1395383

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Outer Mast.....	1	1
2	1500744	Stub Shaft	2	2
3	1399204	Load Roller.....	2	2
4	1465072	Snap Ring.....	2	2
5	126765	Shim (0.020 in.)	12	12
6	161273	Shim (0.020 in.)	AR	AR
7	161272	Shim (0.007 in.)	AR	AR
8	104264	Bearing Strip	2	2
9	104506	O-Ring.....	4	4

FOOTNOTES:**a** Refer to Table

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



HP170040

**INNER MAST
TWO STAGE LIMITED FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4190 mm (165.0 in.)	6890 mm (271.3 in.)
	Mast Group Number	A750 2790	A750 3390	A750 3990	A750 4190	A750 6890
1	Inner Mast	1395384	1395390	1395396	1395398	1395425

H70-90XM

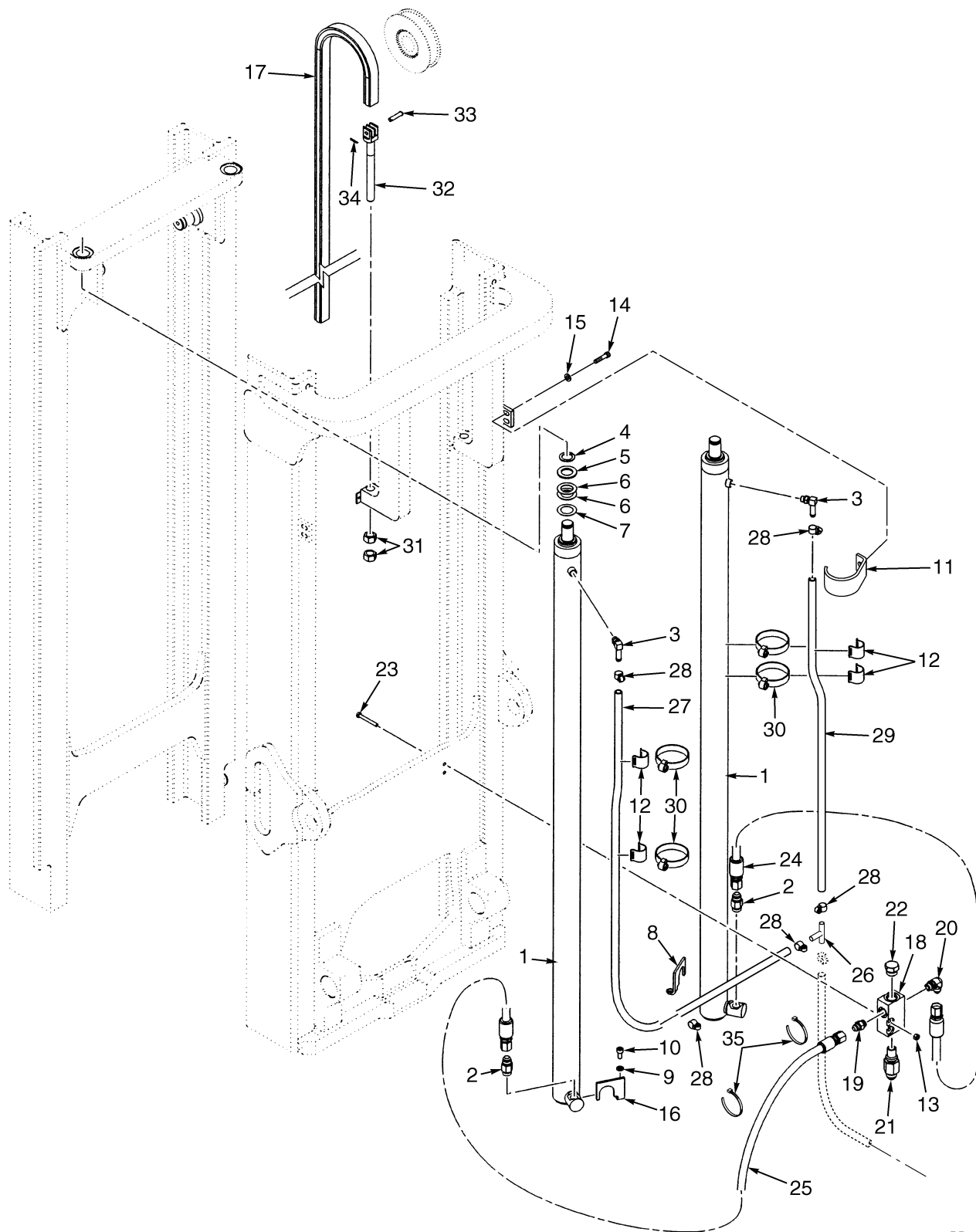
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4150 mm (163.4 in.)	4250 mm (167.3 in.)	7150 mm (281.5 in.)
	Mast Group Number	A749 3050	A749 3650	A749 4150	A749 4250	A749 7150
1	Inner Mast	1395384	1395390	1395395	1395396	1395425

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Inner Mast	1	1
2	1500744	Stub Shaft	2	2
3	1399204	Load Roller	2	2
4	1465072	Snap Ring	2	2
5	126765	Shim (0.020 in.)	12	12
6	1389846	Spacer	2	2
7	12891	Snap Ring	2	2
8	1389959	Bracket	2	2
9	320161	Washer	2	2
10	292683	Lockwasher	2	2
11	132860	Capscrew	2	2
12	1387745	Chain Sheave	2	..
12	1387744	Chain Sheave	..	2

FOOTNOTES:**a** Refer to Table

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



BP170071

**MAIN LIFT
TWO STAGE LIMITED FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4190 mm (165.0 in.)	6890 mm (271.3 in.)
	Mast Group Number	A750 2790	A750 3390	A750 3990	A750 4190	A750 6890
17	Chain	338647	356916	356917	1395481	1395509
27	Hose (LH)	1399087	1399099	1399111	1399109	1399179
29	Hose (RH)	1399075	1399085	1399097	1399097	1399167

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4150 mm (163.4 in.)	4250 mm (167.3 in.)	7150 mm (281.5 in.)
	Mast Group Number	A749 3050	A749 3650	A749 4150	A749 4250	A749 7150
17	Chain	182342	191072	129341	191076	191030
27	Hose (LH)	1399092	1399104	1399108	1399116	1399184
29	Hose (RH)	1399078	1399090	1399096	1399102	1399176

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	.....	Main Cylinder (☞ Figure 10-4)	2	2
2	2035787	Velocity Fuse	2	..
2	2036856	Velocity Fuse	..	2
3	110178	Fitting.....	2	2
3	16483	O-Ring.....	1	1
4	304523	Snap Ring.....	2	2
5	332061	Washer	2	2
6	142247	Shim (0.049 in.)	AR	AR
7	1325120	Shim (0.70 in.)	AR	AR
8	1389923	Bracket (RH).....	1	1
9	292682	Lockwasher	2	2
10	296024	Capscrew	2	2
11	1474399	Bracket	2	2
12	1465585	Clamp	4	4
13	313828	Nut.....	10	10
14	287860	Capscrew	4	4
15	320160	Washer	4	4
16	1389921	Bracket (LH)	1	1
17	a	Chain	1	1
18	1388019	Housing	1	1
19	16541	Fitting.....	1	1

MAIN LIFT

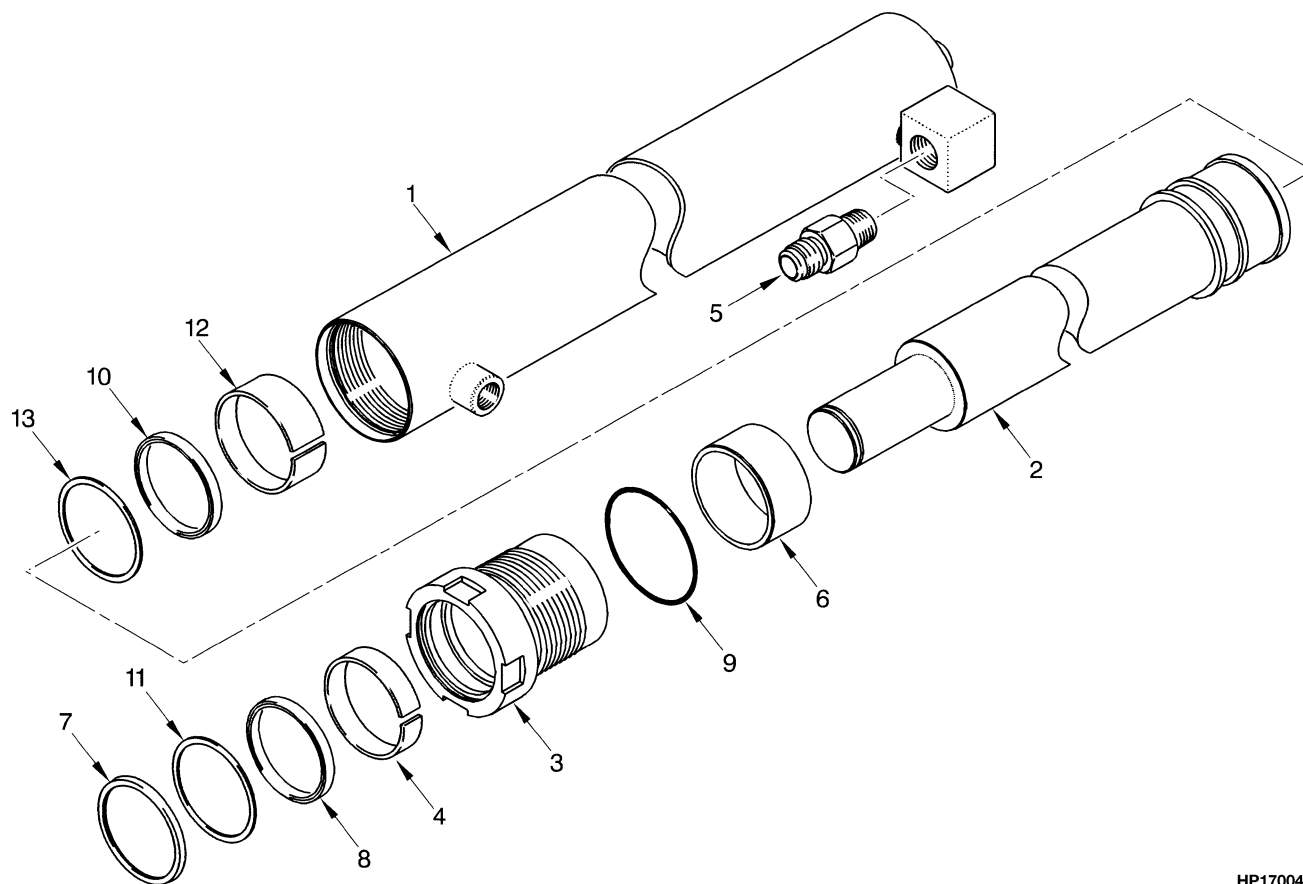
TWO STAGE LIMITED FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
19	16484	O-Ring.....	1	1
20	16559	Fitting.....	1	1
20	16484	O-Ring.....	1	1
21	315262	Control Valve (Lowering)	1	..
21	319891	Control Valve (Lowering)	..	1
22	14603	Fitting.....	1	1
22	16486	O-Ring.....	1	1
23	292511	Capscrew	2	2
24	1387324	Hose	1	1
25	1387399	Hose	1	1
26	2046871	Fitting.....	1	1
27	a	Hose (LH)	1	1
28	379405	Clamp	4	4
29	a	Hose (RH)	1	1
30	112989	Clamp	4	..
30	115696	Clamp	..	4
31	221717	Nut.....	4	4
32	1331990	Chain Anchor.....	2	..
32	1331991	Chain Anchor.....	..	2
33	327591	Pin (Anchor)	2	..
33	339932	Pin (Anchor)	..	2
34	15222	Cotter Pin	2	2
35	1360529	Strap Clamp	2	2

FOOTNOTES:**a** Refer to Table

[illegible]

MAIN LIFT CYLINDERS (Figure 10-4) TWO STAGE LIMITED FREE-LIFT



HP170042

**MAIN LIFT CYLINDERS
TWO STAGE LIMITED FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4190 mm (165.0 in.)	6890 mm (271.3 in.)
	Mast Group Number	A750 2790	A750 3390	A750 3990	A750 4190	A750 6890
	Cylinder Group Number	8603801	8603807	8603813	8603815	8603863
	Lift Cylinder	2035811	2035812	2035813	2058697	2058719
1	Shell	2036187	2036188	2036189	2058946	2058995
2	Rod	2036201	2036202	2036203	2058970	2059006
6	Spacer	----	----	----	----	2033294

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4150 mm (163.4 in.)	4250 mm (167.3 in.)	7150 mm (281.5 in.)
	Mast Group Number	A749 3050	A749 3650	A749 4150	A749 4250	A749 7150
	Cylinder Group Number	8604051	8604057	8604062	8604063	8604032
	Lift Cylinder	2035804	2035805	2058739	2035806	2058730
1	Shell	2036181	2036182	2059037	2036183	2059016
2	Rod	2036195	2036196	2059062	2036197	2059027
6	Spacer	----	----	----	----	367139

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	c	Lift Cylinder	2	2
1	c	Shell	1	1
2	c	Rod	1	1
3	a 2033243	Gland	1	..
3	b 2033281	Gland	1	..
3	a 2033281	Gland	..	1
3	b 2033299	Gland	..	1
4	a 215425	Wear Ring	1	..
4	b 297532	Wear Ring	1	..
4	a 297532	Wear Ring	..	1
4	b 215301	Wear Ring	..	1
5	2035787	Velocity Fuse	1	..
5	2036856	Velocity Fuse	..	1
6	c	Spacer	1	1

MAIN LIFT CYLINDERS TWO STAGE LIMITED FREE-LIFT

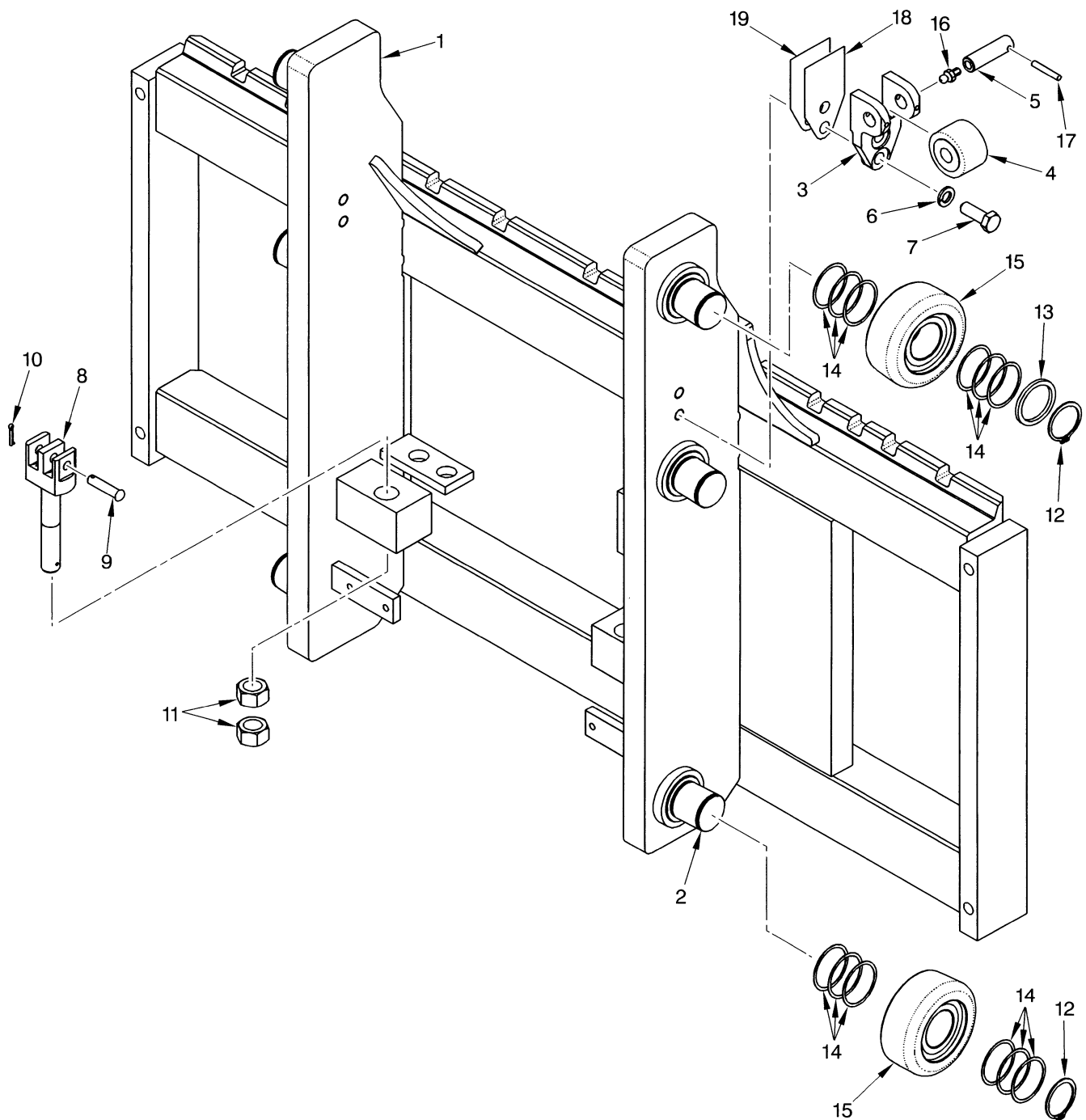
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
7	a 2036212	Wiper Ring.....	1	..
7	b 2036213	Wiper Ring.....	1	..
7	a 2036213	Wiper Ring.....	..	1
7	b 2034269	Wiper Ring.....	..	1
8	a 270077	Rod Seal.....	1	..
8	b 327807	Seal	1	..
8	a 327807	Seal	..	1
8	b 201829	Rod Seal.....	..	1
9	a 57664	O-Ring	1	..
9	b 15879	O-Ring	1	..
9	15879	O-Ring	..	1
10	a 1381061	Seal	1	..
10	b 1381062	Seal	1	..
10	1381062	Seal	..	1
11	a 638249	Back-Up Ring	1	..
11	b 327808	Back-Up Ring	1	..
11	a 327808	Back-Up Ring	..	1
11	b 638250	Back-Up Ring	..	1
12	a 297532	Wear Ring	1	..
12	b 351531	Wear Ring	1	..
12	351531	Wear Ring	..	1
13	351532	Back-Up Ring	1	1
	2035784	Seal Kit (Class III up to 5550 mm) (Includes Items 4, 7-12).....	1	1
	2035785	Seal Kit (Class III 5550 mm and up, Class IV up to 5550 mm) (Includes Items 4, 7-13)	1	1
	2035786	Seal Kit (Class IV 5550 mm and up) (Includes Items 4, 7-12)	1	1

FOOTNOTES:

- a** Lift Height $\Rightarrow$ 5550 mm
b Lift Height 5550 mm $\Rightarrow$
c Refer to Table

[illegible]

CARRIAGE (Figure 10-5) TWO STAGE LIMITED FREE-LIFT



HP170044

CARRIAGE

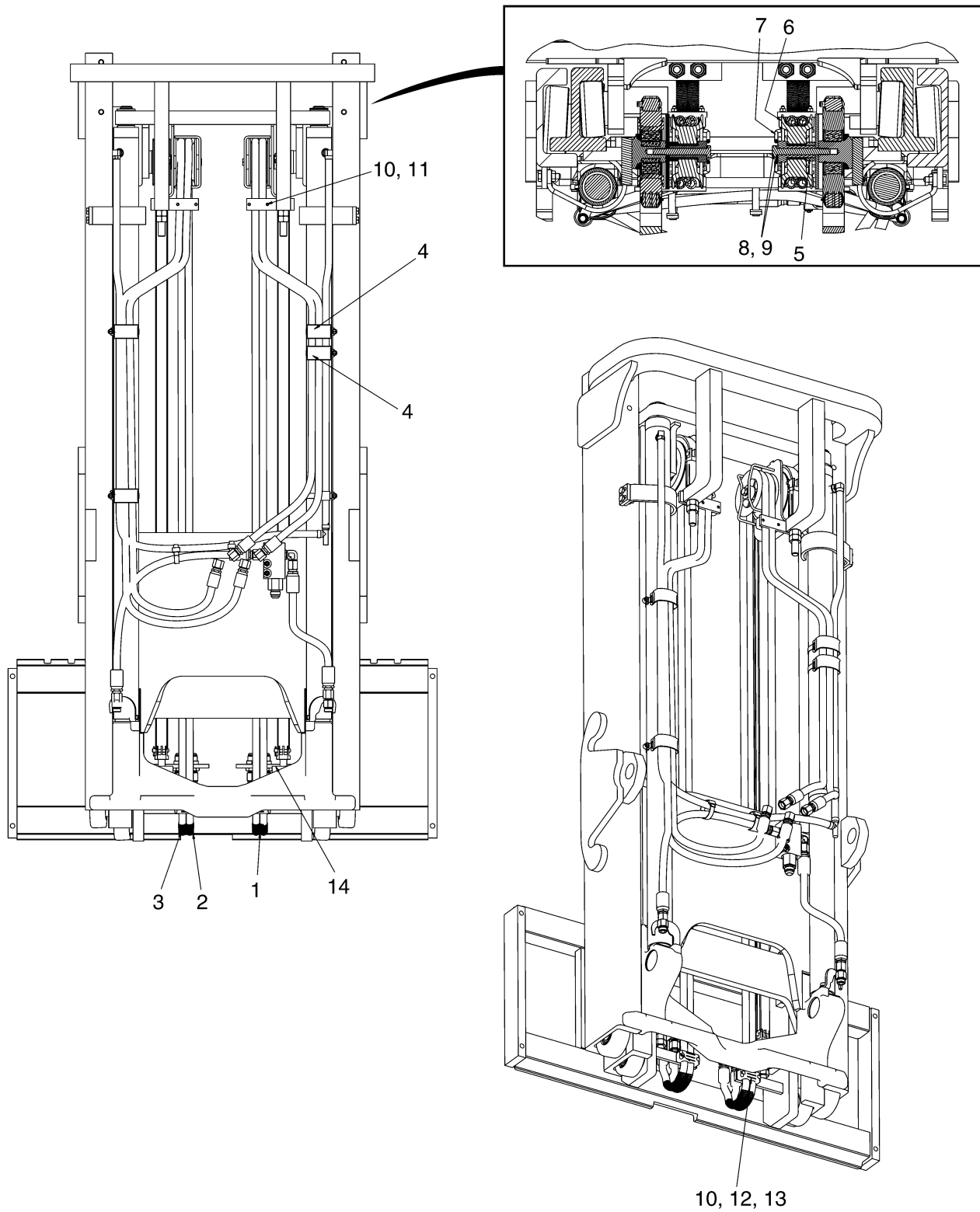
TWO STAGE LIMITED FREE-LIFT

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2035667	Carriage Assembly (48 in.)	1	..
	2035669	Carriage Assembly (60 in.)	1	..
	2035672	Carriage Assembly (60 in.)	..	1
1	1388092	Frame (48 in.)	1	..
1	1388094	Frame (60 in.)	1	..
1	1387448	Frame (60 in.)	..	1
2	1500744	Stub Shaft	6	6
3	a 1465177	Bracket	..	2
4	a 1387993	Roller	..	2
5	a 1465028	Pin	..	2
6	a 292683	Lockwasher	..	4
7	a 292528	Capscrew	..	4
8	1387285	Chain Anchor	2	..
8	1387286	Chain Anchor	..	2
9	327591	Pin (Anchor)	2	..
9	339932	Pin (Anchor)	..	2
10	15222	Cotter Pin	2	2
11	221717	Nut	4	4
12	1465072	Snap Ring	6	6
13	1399224	Spacer	2	2
14	1399207	Shim (0.020 in.)	AR	AR
15	b 1511882	Load Roller ("A")	6	6
15	b 1511883	Load Roller ("B") (0,26 mm)	6	6
15	b 1511884	Load Roller ("C") (1,52 mm)	6	6
16	a 16001	Lube Fitting	..	2
17	a 66333	Pin	..	2
18	a 192425	Shim (0.062 in.)	..	AR
19	a 192424	Shim (0.030 in.)	..	AR

FOOTNOTES:**a** Attachment Carriage (H90XM, 100XM)**b** Letter Located on Inside Surface of Load Roller

HEADER HOSE (Figure 10-6) TWO STAGE LIMITED FREE-LIFT



BP170019

**HEADER HOSE
TWO STAGE LIMITED FREE-LIFT****H100-120XM (THREE AND FOUR FUNCTION)**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	4190 mm (165.0 in.)	6890 mm (271.3 in.)
	Mast Group Number	A750 2790	A750 3390	A750 3990	A750 4190	A750 6890
1	Hose	1506889	1506895	1506901	1506903	1506930
2	Hose (RH)	1506932	1506937	1506943	1506945	1506972
3	Hose (LH)	1506894	1506900	1506906	1506908	1506977

H70-90XM (THREE AND FOUR FUNCTION)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS				
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4150 mm (163.4 in.)	4250 mm (167.3 in.)	7150 mm (281.5 in.)
	Mast Group Number	A749 3050	A749 3650	A749 4150	A749 4250	A749 7150
1	Hose	1506889	1506895	1506900	1506901	1506930
2	Hose (RH)	1506932	1506937	1506942	1506943	1506972
3	Hose (LH)	1506894	1506900	1506905	1506906	1506977

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Hose	2	2
2	a	Hose (RH)	..	1
3	a	Hose (LH)	..	1
4	1465489	Clamp	2	4
5	1477578	Spacer	1	2
6	1495279	Sheave	1	2
7	1477570	Stubshaft	1	2
8	292683	Lockwasher	1	2
9	292538	Capscrew	1	2
10	2035791	Clamp	2	4
11	292503	Capscrew	2	4
12	287844	Capscrew	2	4
13	313805	Nut	4	8
14	16448	Fitting	2	4

FOOTNOTES:**a** Refer to Table

11

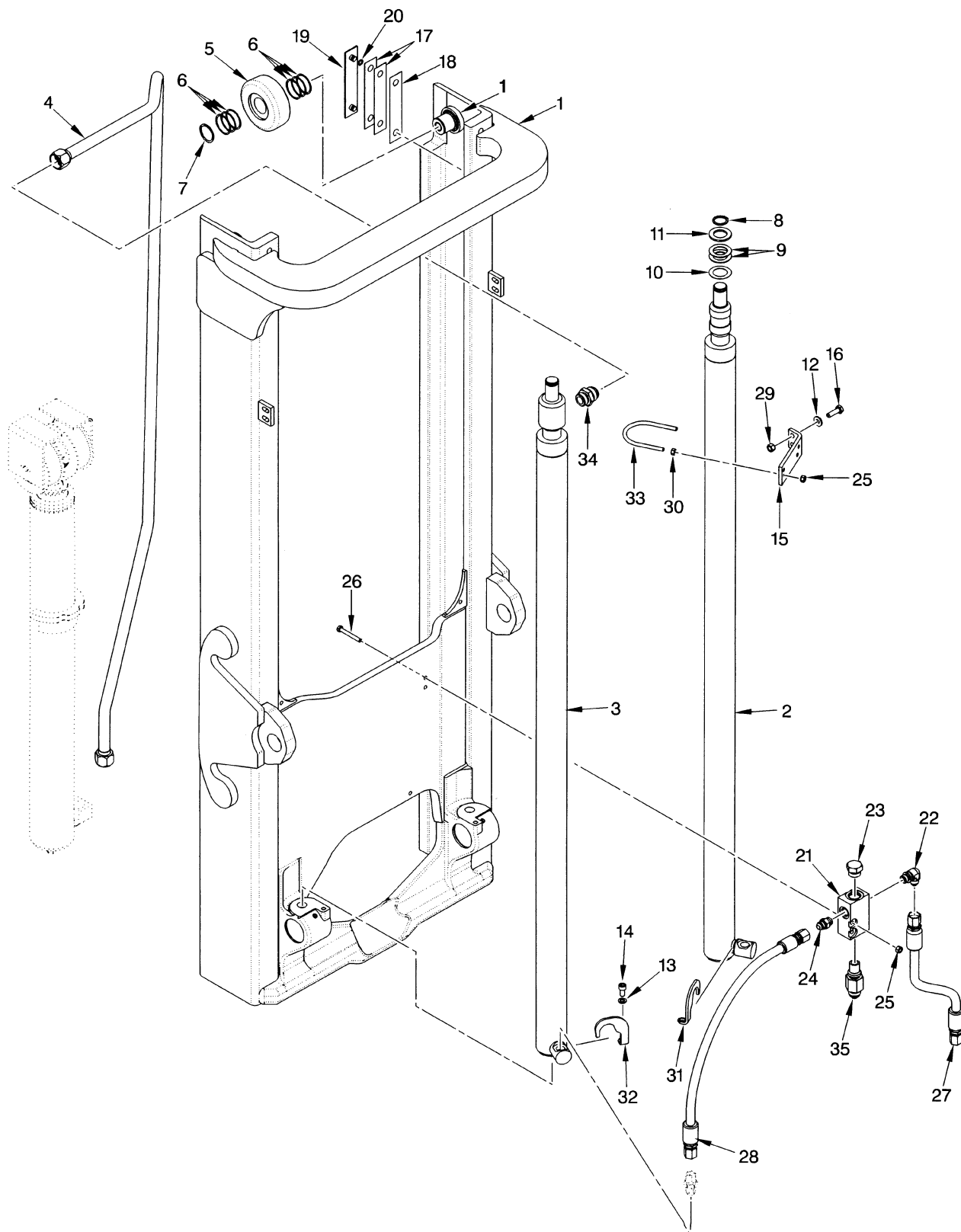
MAST-TWO STAGE FULL FREE-LIFT

SECTION 11

MAST-TWO STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
TWO STAGE FULL FREE-LIFT	11-18
FREE-LIFT CYLINDER	
TWO STAGE FULL FREE-LIFT	11-14
HEADER HOSE	
TWO STAGE FULL FREE-LIFT	11-20
INNER MAST AND FREE LIFT	
TWO STAGE FULL FREE-LIFT	11-6
MAIN LIFT CYLINDERS	
TWO STAGE FULL FREE-LIFT	11-10
OUTER MAST AND MAIN LIFT	
TWO STAGE FULL FREE-LIFT	11-2

OUTER MAST AND MAIN LIFT (Figure 11-1) TWO STAGE FULL FREE-LIFT



HP170056

**OUTER MAST AND MAIN LIFT
TWO STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
1	Outer Mast	1465940	1465946	1465952	1465963
4	Tube	1467651	1467657	1467663	1467674

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
1	Outer Mast	1465940	1465946	1465952	1465963
4	Tube	1467651	1467657	1467663	1467674

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Outer Mast.....	1	1
1	1500744	Stub Shaft	2	2
2		Main Cylinder (RH) (☞ Figure 11-3)	1	1
3		Main Cylinder (LH) (☞ Figure 11-3)	1	1
4	a	Tube.....	1	1
5	1399204	Load Roller.....	2	2
6	126765	Shim (0.020 in.)	12	12
7	1465072	Snap Ring.....	2	2
8	304523	Snap Ring.....	2	2
9	1325120	Shim (0.70 in.)	AR	AR
10	142247	Shim (0.049 in.)	AR	AR
11	332061	Washer	2	2
12	320160	Washer	4	4
13	292682	Lockwasher	2	2
14	296024	Capscrew	2	2
15	1474399	Bracket	2	2
16	287860	Capscrew	4	4
17	161273	Shim (0.020 in.)	AR	AR
18	161272	Shim (0.007 in.)	AR	AR
19	104264	Bearing Strip	2	2
20	104506	O-Ring.....	4	4
21	1388019	Housing (Control Valve)	1	1
22	16559	Fitting.....	1	1

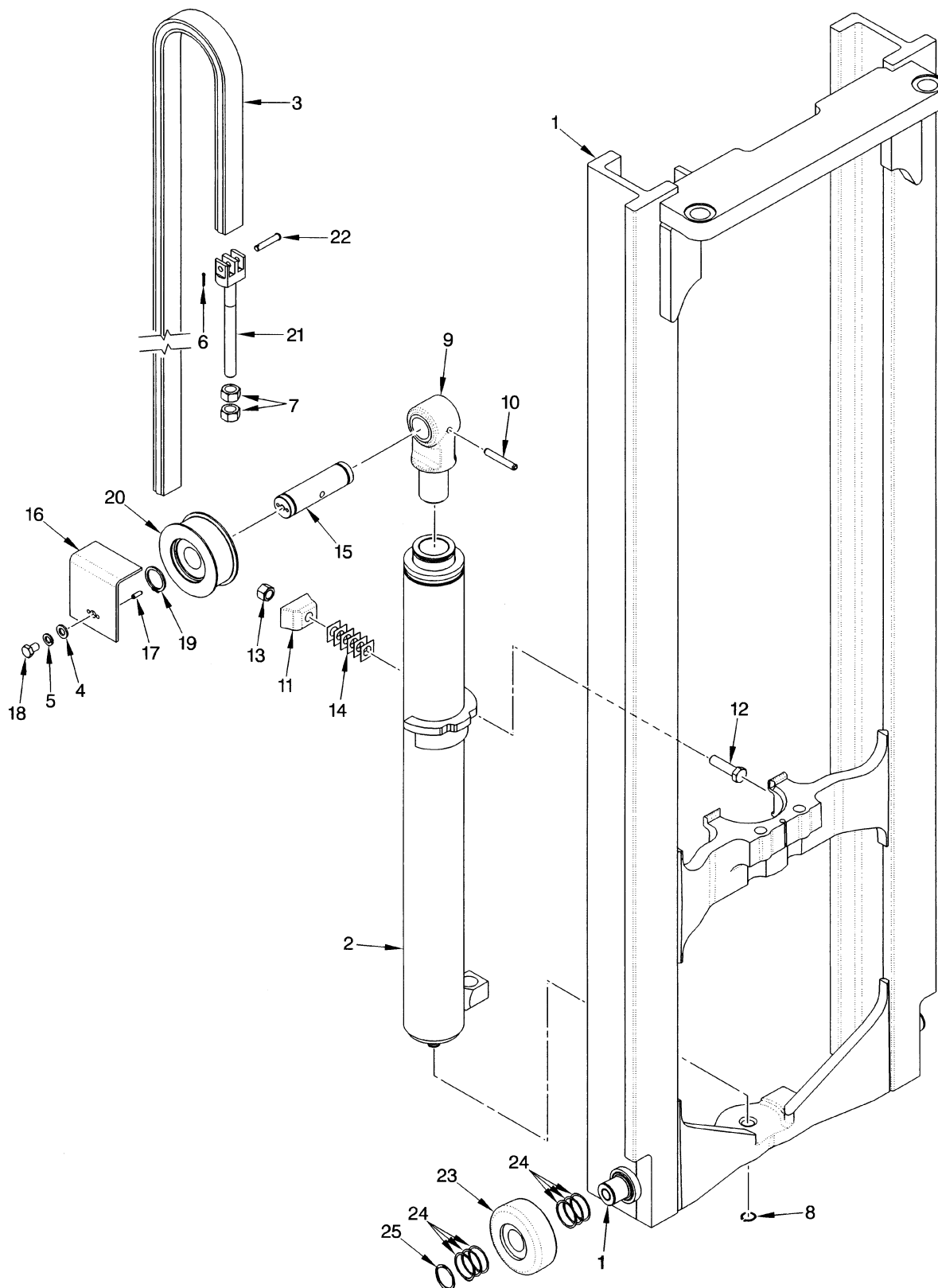
OUTER MAST AND MAIN LIFT TWO STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
22	16484	O-Ring.....	1	1
23	14603	Fitting.....	1	1
23	16486	O-Ring.....	1	1
24	16541	Fitting.....	1	1
24	16484	O-Ring.....	1	1
25	313828	Nut.....	6	6
26	292511	Capscrew	2	2
27	1387324	Hose	1	1
28	1387399	Hose	1	1
29	316826	Nut.....	4	4
30	239503	Nut.....	4	4
31	1389924	Bracket (RH).....	1	1
32	1389922	Bracket (LH)	1	1
33	1389844	U-Bolt	2	2
34	1304349	Fitting.....	1	1
35	315262	Control Valve (Lowering)	1	..
35	16982	O-Ring.....	1	..
35	319891	Control Valve (Lowering)	..	1
35	16982	O-Ring.....	..	1

FOOTNOTES:

a Refer to Table

INNER MAST AND FREE LIFT (Figure 11-2) TWO STAGE FULL FREE-LIFT



HP170057

**INNER MAST AND FREE LIFT
TWO STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
1	Inner Mast	1467081	1467087	1467093	1467104
3	Chain	337180	348827	366106	1395480

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
1	Inner Mast	1467081	1467087	1467093	1467104
3	Chain	337190	338646	347243	347247

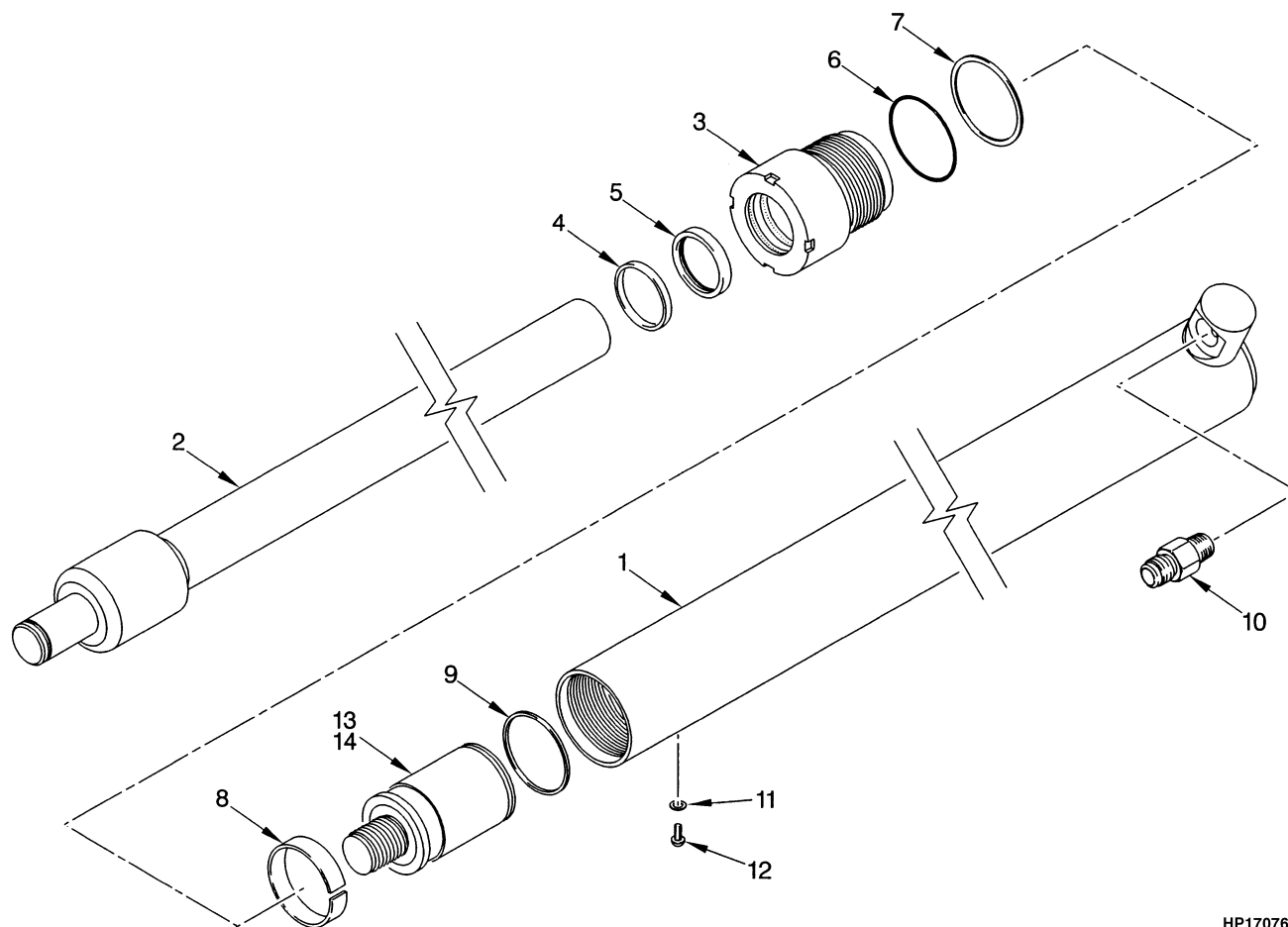
ITEM	PART NO.	DESCRIPTION	QTY
1	a	Inner Mast	1
1	1500744	Stub Shaft	2
2		Free-Lift Cylinder (☞ Figure 11-4)	1
3	a	Chain	1
4	320161	Washer	2
5	292683	Lockwasher	2
6	15222	Cotter Pin	2
7	221717	Nut.....	4
8	58929	Snap Ring.....	1
9	1389825	Crosshead	1
10	302493	Pin	1
11	2036756	Clamp	2
12	292563	Capscrew	2
13	316828	Nut.....	4
14	1387584	Shim	12
15	1387281	Pin	1
16	1387519	Guard	2
17	302472	Pin	2
18	292526	Capscrew	2
19	304527	Snap Ring.....	2
20	1387743	Chain Sheave	2
21	1331991	Chain Anchor.....	2
22	339932	Pin	2
23	1399204	Load Roller.....	2

**INNER MAST AND FREE LIFT
TWO STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
24	126765	Shim (0.020 in.)	12
25	1465072	Snap Ring.....	2

FOOTNOTES:**a** Refer to Table

MAIN LIFT CYLINDERS (Figure 11-3) TWO STAGE FULL FREE-LIFT



HP170764

**MAIN LIFT CYLINDERS
TWO STAGE FULL FREE-LIFT****H100-120XM LEFT HAND**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
	Cylinder Group Number	8502151	8502157	8502163	8502174
	Lift Cylinder	2038457	2038463	2038469	2038479
1	Shell	1380901	1380904	1380914	1380926
2	Rod	1400919	1400922	1400998	1495359

H100-120XM RIGHT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
	Cylinder Group Number	8502101	8502107	8502113	8502124
	Lift Cylinder	2038415	2038421	2038427	2038438
1	Shell	1380901	1380904	1380914	1380926
2	Rod	1400913	1400916	1400997	1495347

H70-90XM LEFT HAND

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
	Cylinder Group Number	8605751	8605757	8605763	8605774
	Lift Cylinder	2038359	2038365	2038370	2038375
1	Shell	1380901	1380904	1380914	1380926
2	Rod	1400907	1400910	1400928	1400976

MAIN LIFT CYLINDERS TWO STAGE FULL FREE-LIFT

H70-90XM RIGHT HAND

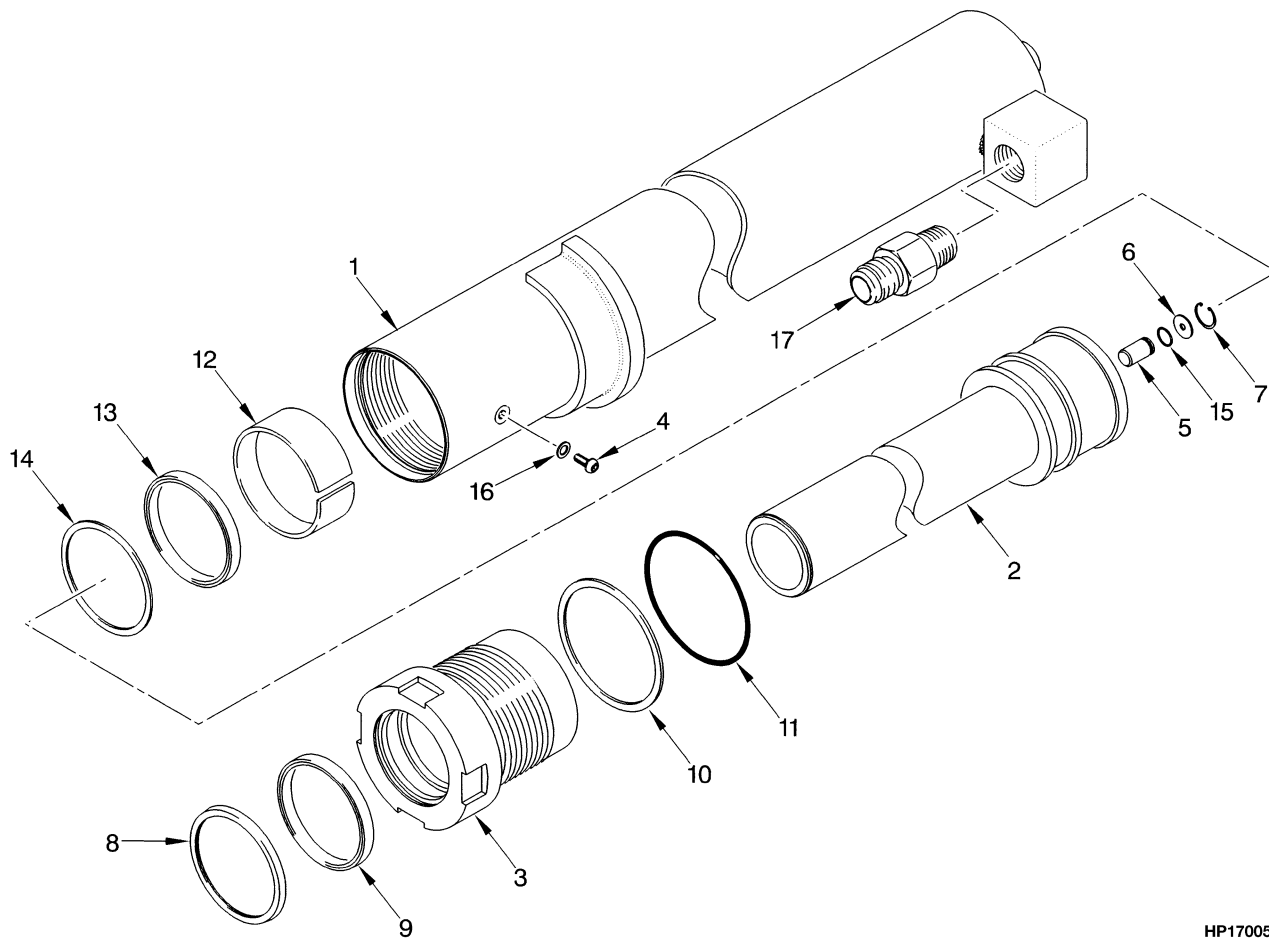
ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
	Cylinder Group Number	8605701	8605707	8605713	8605724
	Lift Cylinder	2038289	2038314	2038318	2038339
1	Shell	1380901	1380904	1380914	1380926
2	Rod	1400901	1400904	1400927	1400975

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	1	1
1	a	Shell	1	1
2	a	Rod.....	1	1
3	1310376	Retainer.....	1	..
3	1310377	Retainer.....	..	1
4	1310370	Rod Wiper Ring.....	1	..
4	1310371	Wiper Ring.....	..	1
5	1310373	Rod Seal.....	1	..
5	1310374	Oil Seal.....	..	1
6	198518	O-Ring.....	1	1
7	166659	Back-Up Ring	1	1
8	2038675	Wear Ring	1	1
9	1379063	Piston Ring.....	1	1
10	2041965	Velocity Fuse (RH)	1	..
10	2035787	Velocity Fuse (RH)	..	1
11	190887	Seal	1	1
12	295649	Screw	1	1
13	1381055	Piston (RH).....	1	1
13	1381056	Piston (LH)	1	1
14	264134	Sealant	AR	AR
	2038676	Seal Kit (Includes Items 4-8)	1	..
	2038679	Seal Kit (Includes Items 4-8)	..	1

FOOTNOTES:**a** Refer to Table

FREE-LIFT CYLINDER (Figure 11-4) TWO STAGE FULL FREE-LIFT



HP170059

**FREE-LIFT CYLINDER
TWO STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
	Cylinder Group Number	8520951	8520956	8520961	8520976
	Lift Cylinder	2062748	2062115	2062120	2062135
1	Shell	2065887	2065888	2066423	2066424
2	Rod	2062074	2062079	2062084	2062099

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
	Cylinder Group Number	8605501	8605506	8605511	8605522
	Lift Cylinder	2036440	2036442	2036444	2058799
1	Shell	2037868	2037872	2037875	2059140
2	Rod	2037833	2037837	2037840	2059157

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	1	1
1	a	Shell	1	1
2	a	Rod.....	1	1
3	2036282	Gland.....	1	..
3	1541640	Gland.....	..	1
4	1361302	Screw	1	1
5	257913	Check Valve.....	1	1
6	297531	Washer	1	1
6	637635	Washer (Optional)	1	1
7	187388	Snap Ring.....	1	1
8	2034274	Wiper Ring.....	1	1
9	637161	Rod Seal.....	1	1
10	164632	Back-Up Ring	1	..
10	615145	Back-Up Ring	..	1
11	15885	O-Ring	..	1
11	46629	O-Ring.....	1	..
12	636950	Wear Ring	1	..

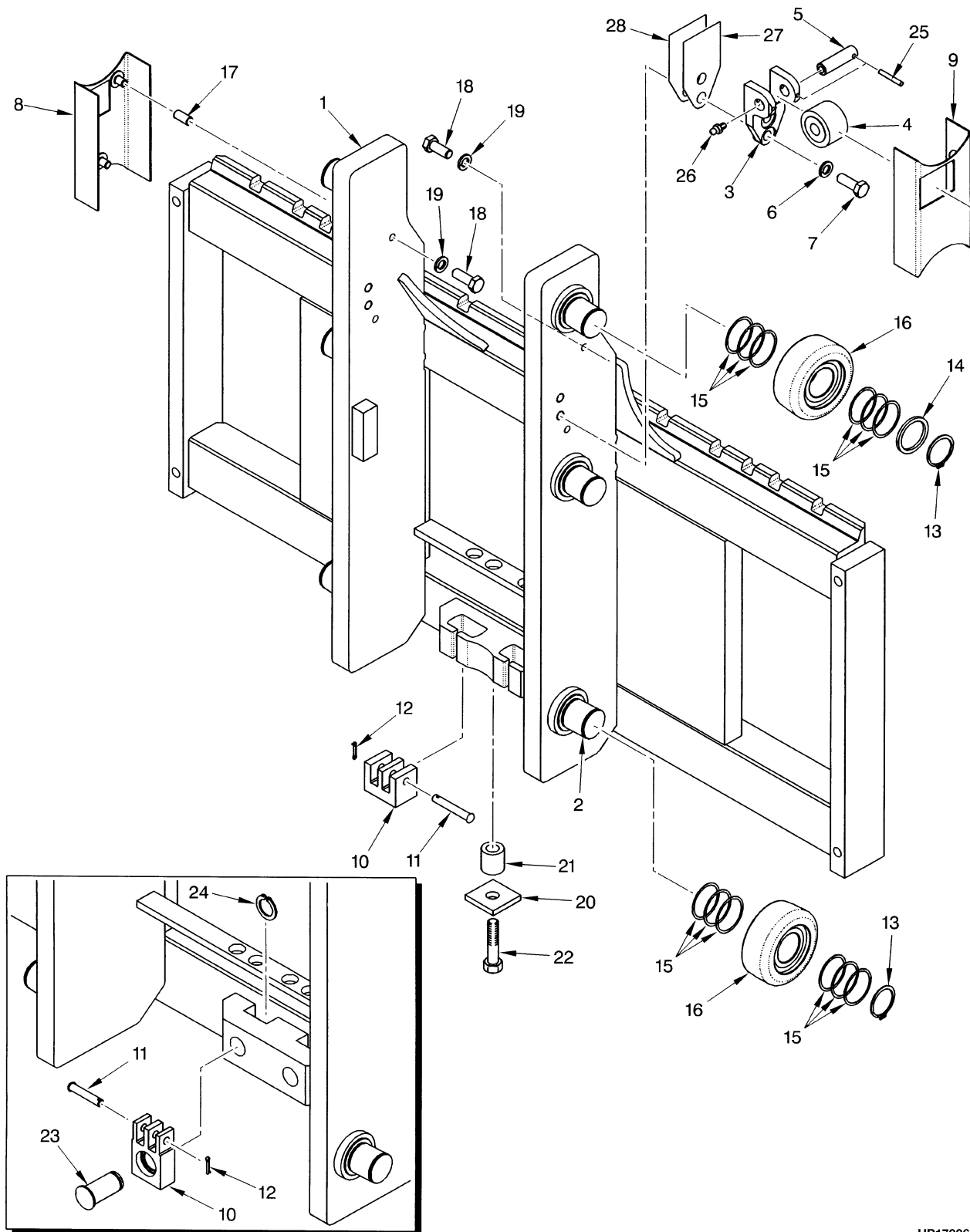
**FREE-LIFT CYLINDER
TWO STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
12	1380982	Wear Ring	..	1
13	637162	Seal	1	..
13	364059	Seal	..	1
14	638293	Back-Up Ring	1	..
14	1381074	Back-Up Ring	..	1
15	39348	O-Ring	1	1
16	190887	Seal	1	1
17	2038982	Velocity Fuse	1	..
17	2038981	Velocity Fuse	..	1
	2036279	Seal Kit (Includes Items 8-16)	1	..
	2065889	Seal Kit (Includes Items 8-16)	..	1

FOOTNOTES:**a** Refer to Table

[illegible]

CARRIAGE (Figure 11-5) TWO STAGE FULL FREE-LIFT

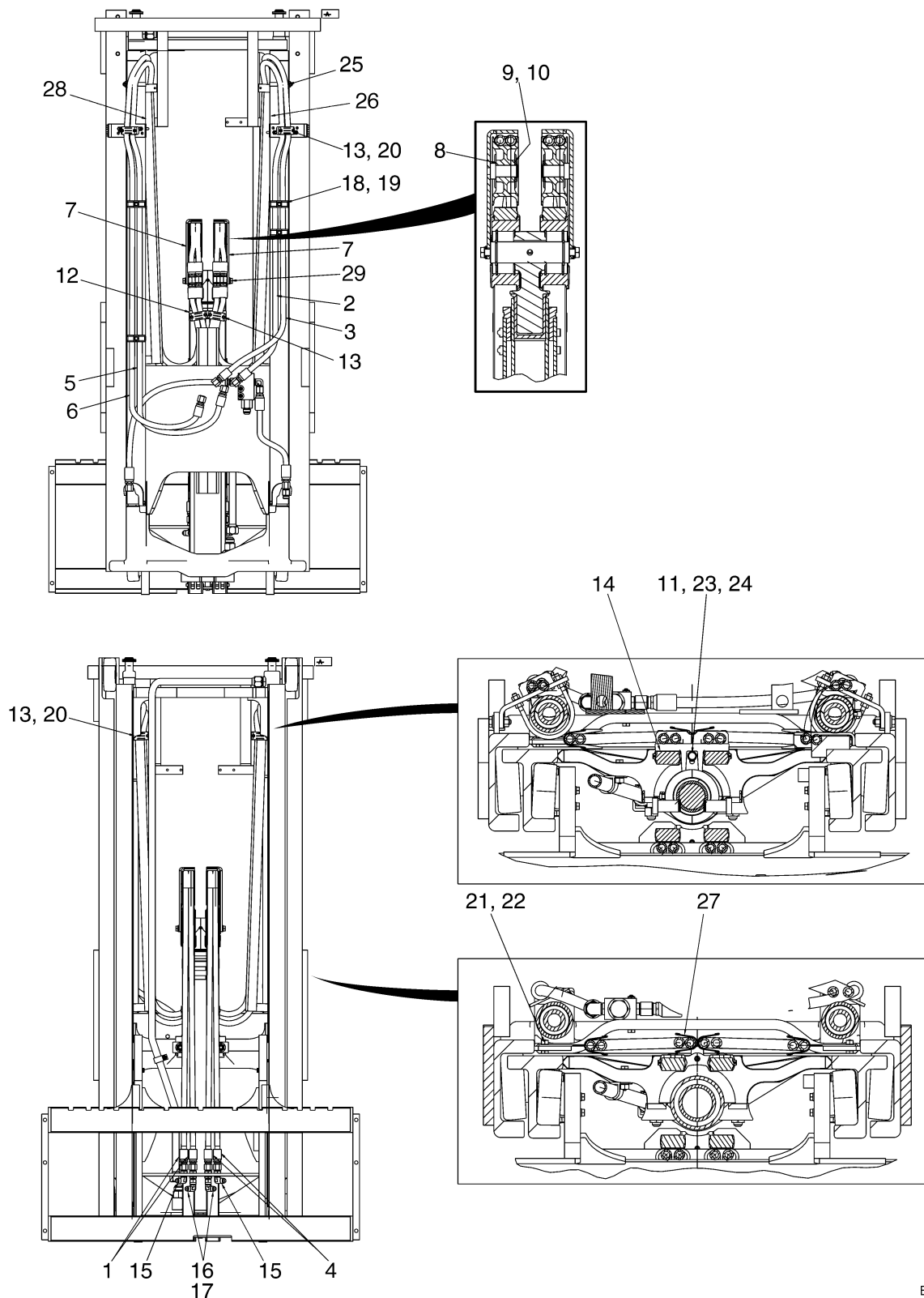


HP170060

CARRIAGE
TWO STAGE FULL FREE-LIFT**KEY:****A: H70-90XM****B: H90-100XM****C: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY		
			A	B	C
	2038558	Carriage (48 in.).....	1	..	..
	2038565	Carriage (54 in.).....	..	1	..
	2038564	Carriage (54 in.).....	..	..	1
1	1394984	Frame (48 in.).....	1	..	..
1	1465885	Frame (54 in.).....	..	1	..
1	1394992	Frame (54 in.).....	..	..	1
2	1500744	Stub Shaft	6	6	6
3	1465177	Bracket	2	2	2
4	1387993	Roller	2	2	2
5	1465028	Pin	2	2	2
6	292683	Lockwasher	4	4	4
7	292528	Capscrew	4	4	4
8	319323	Guard (LH) (LH)	1	1	1
9	319322	Guard (RH) (RH)	1	1	1
10	1387548	Chain Anchor.....	2	..	..
10	341558	Chain Anchor.....	..	2	2
11	1387549	Pin (Anchor)	2	..	..
11	339932	Pin (Anchor)	..	2	..
12	15222	Cotter Pin	2	2	2
13	1465072	Snap Ring.....	6	6	6
14	1399224	Spacer.....	2	2	2
15	126765	Shim (0.020 in.)	AR	AR	AR
16	1511883	Load Roller.....	6	6	6
17	317292	Spacer.....	4	4	4
18	18518	Capscrew	4	4	4
19	15155	Lockwasher	4	4	4
20	1400126	Plate	1	..	..
21	1400125	Spacer.....	1	..	..
22	292508	Capscrew	1	..	..
23	320327	Pin	..	2	2
24	131358	Snap Ring.....	..	2	2
25	66333	Pin	..	2	..
26	16001	Lube Fitting.....	..	2	..
27	192425	Shim (0.062 in.)	..	AR	..
28	192424	Shim (0.030 in.)	..	AR	..

HEADER HOSE (Figure 11-6) TWO STAGE FULL FREE-LIFT



BP170073

**HEADER HOSE
TWO STAGE FULL FREE-LIFT****H100-120XM (FOUR FUNCTION)**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
4	Hose	1484276	1484283	1484289	1484300
5	Hose	1484454	1484460	1484466	1484477
6	Hose	1475834	1475840	1475846	1475859
28	Channel	1474125	1474131	1474137	1474148

H100-120XM (THREE FUNCTION)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		2790 mm (109.8 in.)	3390 mm (133.5 in.)	3990 mm (157.1 in.)	5090 mm (200.4 in.)
	Mast Group Number	A754 2790	A754 3390	A754 3990	A754 5090
1	Hose	1484276	1484283	1484289	1484300
2	Hose	1483938	1483944	1483950	1483961
3	Hose	1475789	1475795	1475801	1475814
26	Channel	1474101	1474107	1474113	1474124
27	Channel (Free-Lift)	1474048	1474054	1474060	1474071

H70-90XM (FOUR FUNCTION)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
	Mast Group Number	A753 3050	A753 3650	A753 4250	A753 5350
4	Hose	1484277	1483993	1483999	1484009
5	Hose	1484522	1484528	1484534	1484545
6	Hose	1475833	1475839	1475845	1483958
28	Channel	1474125	1474131	1474137	1474148

HEADER HOSE TWO STAGE FULL FREE-LIFT

H70-90XM (THREE FUNCTION)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		3050 mm (120.1 in.)	3650 mm (143.7 in.)	4250 mm (167.3 in.)	5350 mm (210.6 in.)
		A753 3050	A753 3650	A753 4250	A753 5350
1	Hose	1484277	1483993	1483999	1484009
2	Hose	1475787	1484498	1484504	1484515
3	Hose	1475788	1475794	1475800	1475813
26	Channel	1474101	1474107	1474113	1474124
27	Channel (Free-Lift)	1474051	1474057	1474063	1474074

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

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Hose	2	..
2	a	Hose	1	..
3	a	Hose	1	..
4	a	Hose	..	2
5	a	Hose	..	1
6	a	Hose	..	1
7	1541242	Bracket (RH)	1	..
7	1541243	Bracket (LH)	1	1
8	1495279	Sheave	1	2
9	320171	Washer	1	2
10	58902	Snap Ring	1	2
11	320157	Washer	1	2
12	1399243	Clamp	2	2
13	2035791	Clamp	3	6
13	293797	Capscrew	2	4
14	1466925	Bracket (H70-90XM)	1	1
14	1477080	Bracket (H100-120XM)	1	1
15	16458	Fitting	1	2
16	16448	Fitting	1	2
17	16989	Fitting	1	2
18	1465489	Clamp	4	8
19	115696	Clamp	2	4
20	293796	Capscrew	4	8
21	136681	Capscrew	1	2
22	313828	Nut	1	2
23	136749	Capscrew	1	1
24	292681	Lockwasher	1	1
25	112989	Clamp	1	..
26	a	Channel	1	..
27	a	Channel (Free-Lift)	1	1

HEADER HOSE
TWO STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
28	a	Channel.....	..	1
29	302472	Pin	1	2

FOOTNOTES:**a** Refer to Table

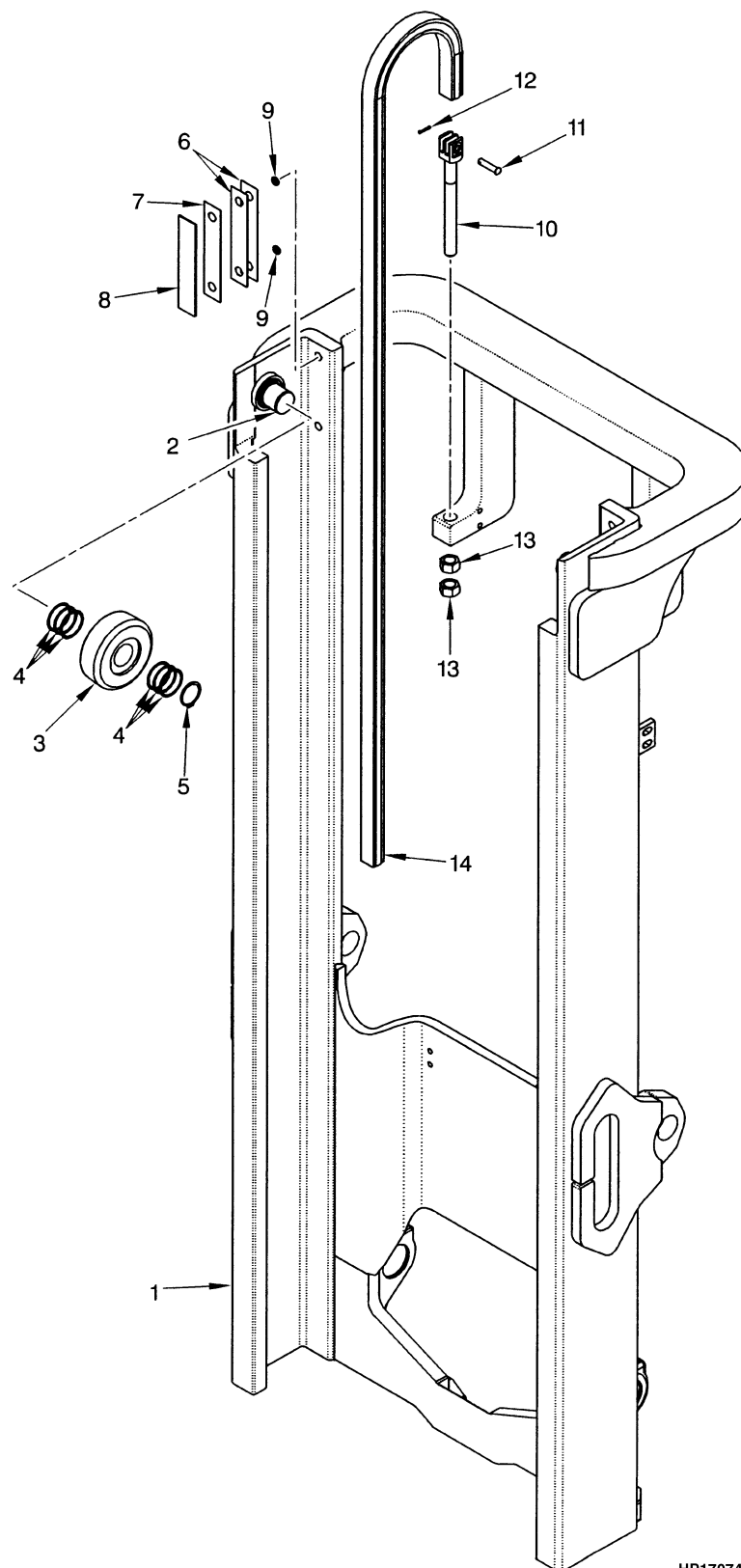
This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

SECTION 12

MAST-THREE STAGE FULL FREE-LIFT

DESCRIPTION	PAGE
CARRIAGE	
THREE STAGE FULL FREE-LIFT	12-30
FREE-LIFT	
THREE STAGE FULL FREE-LIFT	12-18
FREE-LIFT CYLINDER	
THREE STAGE FULL FREE-LIFT	12-26
HEADER HOSE	
THREE STAGE FULL FREE-LIFT	12-32
INNER MAST	
THREE STAGE FULL FREE-LIFT	12-10
INTERMEDIATE MAST	
THREE STAGE FULL FREE-LIFT	12-6
MAIN LIFT	
THREE STAGE FULL FREE-LIFT	12-14
MAIN LIFT CYLINDERS	
THREE STAGE FULL FREE-LIFT	12-22
OUTER MAST	
THREE STAGE FULL FREE-LIFT	12-2

OUTER MAST (Figure 12-1) THREE STAGE FULL FREE-LIFT



HP170747

**OUTER MAST
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	1	2	3	4				
	Mast Group Number				A752 4087	A752 4387	A752 4640	A752 4940
1	Outer Mast				1395851	1395853	1395854	1395856
14	Chain (Main)				280878	338647	152404	339934

H100-120XM (CONT.)

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	1	2	3	4			
	Mast Group Number				A752 5090	A752 5240	A752 6965
1	Outer Mast				1395857	1395858	1395872
14	Chain (Main)				348149	356916	1395487

H70-90XM

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	1	2	3	4				
	Mast Group Number				A751 4365	A751 4665	A751 4900	A751 5200
1	Outer Mast				1395851	1395853	1395854	1395856
14	Chain (Main)				191081	182342	194607	191085

H70-90XM (CONT.)

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	1	2	3	4			
	Mast Group Number				A751 5350	A751 5500	A751 7825
1	Outer Mast				1395857	1395858	1395876
14	Chain (Main)				243976	191072	1395449

OUTER MAST THREE STAGE FULL FREE-LIFT

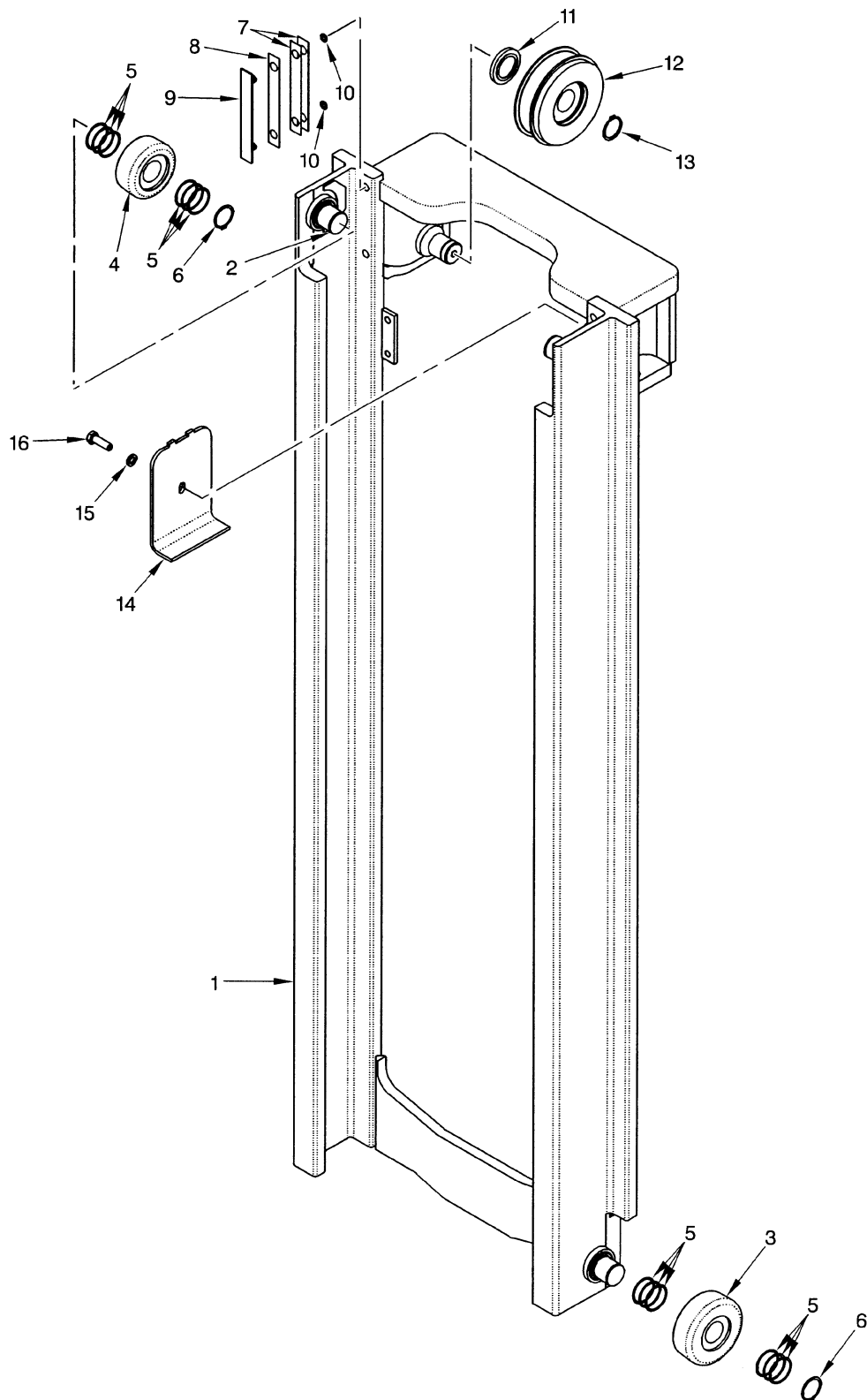
KEY:**A:** H70-90XM**B:** H100-120XM

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Outer Mast.....	1	1
2	1399236	Stubshaft.....	2	2
3	1399203	Load Roller.....	2	2
3	1399204	Load Roller.....	2	2
3	1399205	Load Roller.....	2	2
4	1399207	Shim (0.020 in.).....	12	12
5	1465072	Snap Ring.....	2	2
6	161273	Shim (0.020 in.).....	AR	AR
7	161272	Shim (0.007 in.).....	AR	AR
8	104264	Bearing Strip	2	2
9	104506	O-Ring	4	4
10	1331990	Chain Anchor.....	2	..
10	1331991	Chain Anchor.....	..	2
11	327591	Pin (Anchor)	2	..
11	339932	Pin (Anchor)	..	2
12	15222	Cotter Pin	2	2
13	221717	Nut.....	4	4
14	a	Chain (Main).....	2	2

FOOTNOTES:**a** Refer to Table

[illegible]

INTERMEDIATE MAST (Figure 12-2) THREE STAGE FULL FREE-LIFT



HP170748

**INTERMEDIATE MAST
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
					Mast Group Number	A752 4087	A752 4387	A752 4640
1	Intermediate Mast					1395877	1395879	1395880

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
					Mast Group Number	A752 5090	A752 6965
1	Intermediate Mast					1395883	1395884

H70-90XM

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
					Mast Group Number	A751 4365	A751 4665	A751 5200
1	Intermediate Mast					1395877	1395879	1395880

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	5950 mm (234.3 in.)
					Mast Group Number	A751 5350	A751 5950
1	Intermediate Mast					1395883	1395884

KEY:**A: H3.50XM, H4.00XM, H4.00XMS****B: H4.00XM, H4.50XM, H5.00XM, H5.50XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Intermediate Mast	1	1
2	1500744	Stub Shaft	4	4
3	1399204	Load Roller.....	2	2
4	1511883	Load Roller.....	2	2
5	126765	Shim (0.020 in.)	24	24
6	1465072	Snap Ring.....	4	4

INTERMEDIATE MAST THREE STAGE FULL FREE-LIFT

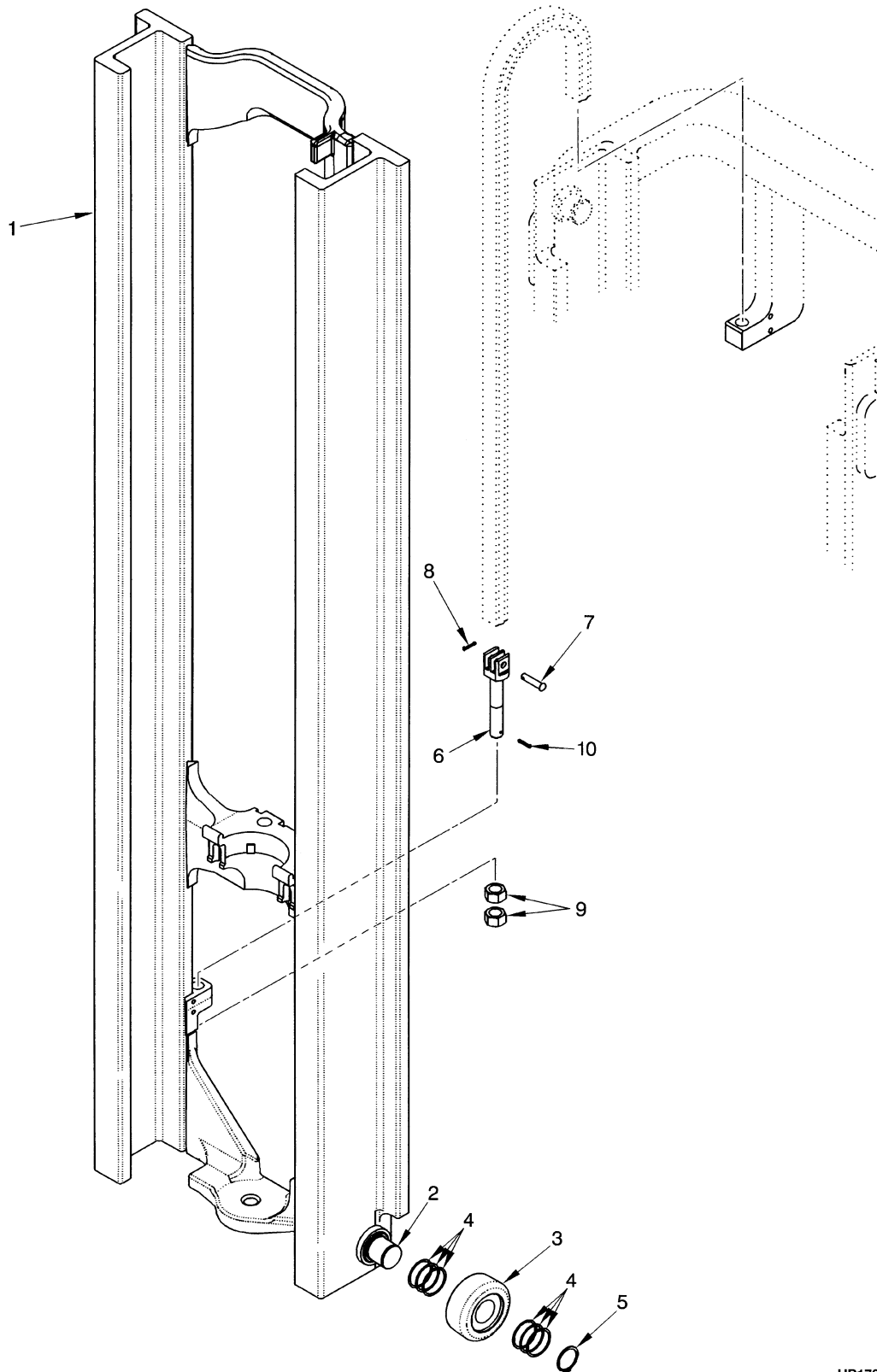
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
7	131716	Shim (0.020 in.)	AR	AR
8	131715	Shim (0.007 in.)	AR	AR
9	215211	Bearing Strip	2	2
10	104506	O-Ring	4	4
11	1389846	Spacer	2	2
12	1389780	Chain Sheave	2	..
12	1389779	Chain Sheave	..	2
13	12891	Snap Ring	2	2
14	1389959	Bracket (Chain Guard)	1	1
15	292683	Lockwasher	1	1
16	246001	Capscrew	1	1

FOOTNOTES:

a Refer to Table

[illegible]

INNER MAST (Figure 12-3) THREE STAGE FULL FREE-LIFT



HP170049

**INNER MAST
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
					Mast Group Number	A752 4087	A752 4387	A752 4640
1	Inner Mast					1395903	1395905	1395906

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
					Mast Group Number	A752 5090	A752 6965
1	Inner Mast					1395909	1395910

H70-90XM

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
					Mast Group Number	A751 4365	A751 4665	A751 5200
1	Inner Mast					1395903	1395905	1395906

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
					Mast Group Number	A751 5350	A751 7825
1	Inner Mast					1395909	1395910

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Inner Mast	1	1
2	1500744	Stub Shaft	2	2
3	1511882	Load Roller.....	2	2
3	1511883	Load Roller.....	2	2
3	1511884	Load Roller.....	2	2
4	1399207	Shim (0.020 in.)	12	12

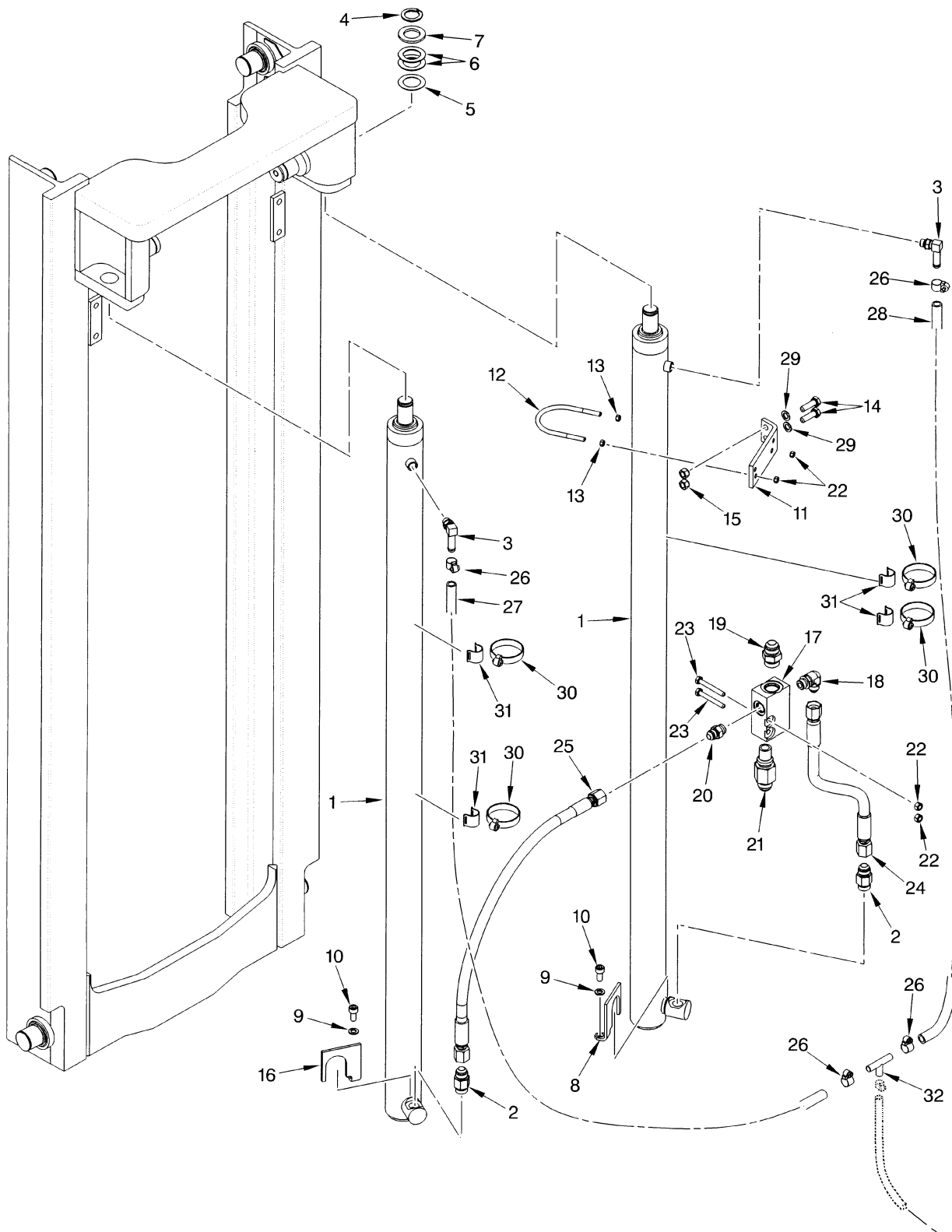
**INNER MAST
THREE STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
5	1465072	Snap Ring.....	2	2
6	1387285	Chain Anchor.....	2	..
6	1387286	Chain Anchor.....	..	2
7	327591	Pin (Anchor)	2	..
7	339932	Pin (Anchor)	..	2
8	15222	Cotter Pin	2	2
9	221717	Nut.....	4	4
10	15224	Cotter Pin	2	2

FOOTNOTES:**a** Refer to Table

[illegible]

MAIN LIFT (Figure 12-4) THREE STAGE FULL FREE-LIFT



BP170052

**MAIN LIFT
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	Mast Group Number				A752 4087	A752 4387	A752 4640	A752 4940
27	Hose (LH)				1399090	1399094	1399096	1399100
28	Hose (RH)				1486838	980929	1474605	1399078

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	Mast Group Number				A752 5090	A752 5240	A752 6965
27	Hose (LH)				1399102	1399104	1399136
28	Hose (RH)				1399080	1399082	1399114

H70-90XM

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	Mast Group Number				A751 4365	A751 4665	A751 4900	A751 5200
27	Hose (LH)				1399092	1399096	1399099	1399103
28	Hose (RH)				127518	1474605	1399077	1399081

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	Mast Group Number				A751 5350	A751 5500	A751 7825
27	Hose (LH)				1399105	1399107	1399146
28	Hose (RH)				1399083	1399085	1399124

MAIN LIFT THREE STAGE FULL FREE-LIFT

KEY:

A: H70-90XM

B: H100-120XM

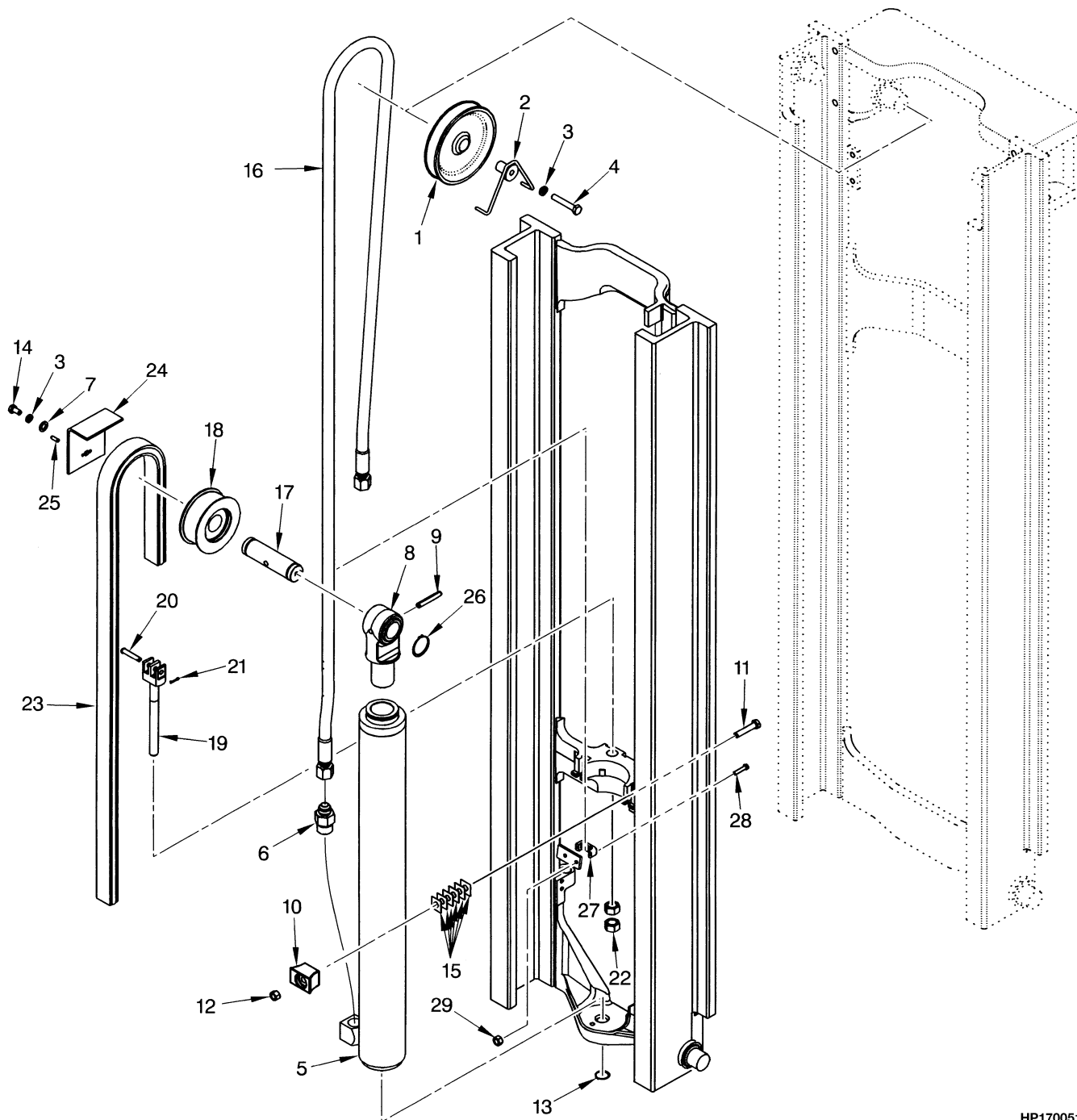
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	.....	Main Cylinder (☞ Figure 12-6)	2	2
2	2036478	Velocity Fuse	2	..
2	2036857	Velocity Fuse	..	2
3	110178	Fitting.....	2	2
3	16483	O-Ring.....	1	1
4	304523	Snap Ring.....	2	2
5	1325120	Shim (0.70 in.)	AR	AR
6	142247	Shim (0.049 in.)	AR	AR
7	332061	Washer	1	1
8	1389924	Bracket (RH).....	1	1
9	292682	Lockwasher	2	2
10	296024	Capscrew	2	2
11	1474399	Bracket	2	2
12	1389844	U-Bolt	2	..
12	1389845	U-Bolt	..	2
13	239503	Nut.....	4	4
14	287860	Capscrew	4	4
15	316826	Nut.....	4	4
16	1389922	Bracket (LH)	1	1
17	1388019	Housing (Control Valve)	1	1
18	16559	Fitting.....	1	1
18	16484	O-Ring.....	1	1
19	16543	Fitting.....	1	1
19	16486	O-Ring.....	1	1
20	16541	Fitting.....	1	1
20	16484	O-Ring.....	1	1
21	315262	Control Valve (Lowering)	1	..
21	319891	Control Valve (Lowering)	..	1
22	313828	Nut.....	6	6
23	292511	Capscrew	2	2
24	1387324	Hose	1	1
25	1387399	Hose	1	1
26	379405	Clamp	4	4
27	a	Hose (LH)	1	1
28	a	Hose (RH)	1	1
29	320160	Washer	4	4
30	1465585	Clamp	4	4
31	112989	Clamp	4	..
31	115696	Clamp	..	4
32	2046871	Fitting.....	1	1

FOOTNOTES:

a Refer to Table

[illegible]

FREE-LIFT (Figure 12-5) THREE STAGE FULL FREE-LIFT



HP170051

**FREE-LIFT
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	Mast Group Number				A752 4087	A752 4387	A752 4640	A752 4940
16	Hose				1387963	1387965	1387966	1387968
23	Chain (Free-Lift)				297640	337189	337190	348827

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	Mast Group Number				A752 5090	A752 5240	A752 6965
16	Hose				1387969	1387970	1387988
23	Chain (Free-Lift)				320397	339933	338649

H70-90XM

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	Mast Group Number				A751 4365	A751 4665	A751 4900	A751 5200
16	Hose				1387963	1387965	1387966	1387968
23	Chain (Free-Lift)				337190	348827	339933	338646

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	Mast Group Number				A751 5350	A751 5500	A751 7825
16	Hose				1387969	1387970	1387986
23	Chain (Free-Lift)				280878	366106	339875

FREE-LIFT THREE STAGE FULL FREE-LIFT

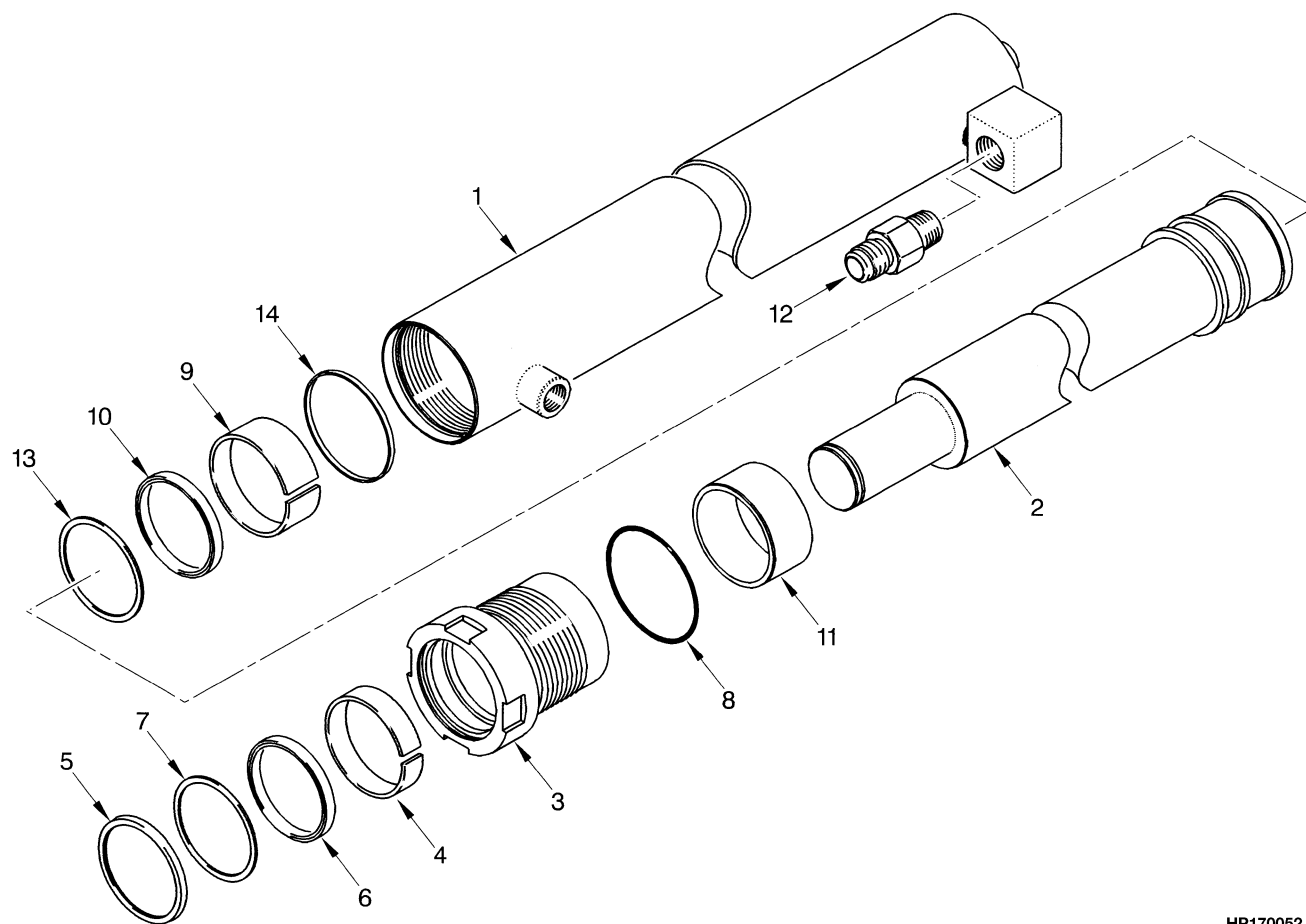
KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	2036778	Sheave	1	1
2	1387553	Stubshaft	1	1
3	292683	Lockwasher	4	4
4	292531	Capscrew	1	1
5	.....	Free-Lift Cylinder (See Figure 12-7)	1	1
6	2036478	Velocity Fuse	1	..
6	2036857	Velocity Fuse	..	1
7	320161	Washer	2	2
8	1389825	Crosshead	1	1
9	302493	Pin	1	1
10	2036756	Clamp	1	1
11	292564	Capscrew	2	2
12	316828	Nut.....	2	2
13	58929	Snap Ring.....	1	1
14	292526	Capscrew	2	2
15	1387584	Shim	12	12
16	a	Hose	1	1
17	1387281	Pin	1	1
18	1387743	Chain Sheave	2	2
18	1387740	Sheave	1	1
18	40667	Snap Ring	1	1
18	126764	Bearing.....	1	1
19	1331991	Chain Anchor.....	2	2
20	339932	Pin (Anchor)	2	2
21	15222	Cotter Pin	2	2
22	221717	Nut.....	4	4
23	a	Chain (Free-Lift)	2	2
24	1387519	Guard	2	2
25	302472	Pin	2	2
26	304527	Snap Ring.....	2	2
27	1387479	Clamp	1	1
28	287844	Capscrew	2	2
29	313805	Nut.....	2	2

FOOTNOTES:**a** Refer to Table

[illegible]

MAIN LIFT CYLINDERS (Figure 12-6) THREE STAGE FULL FREE-LIFT



HP170052

**MAIN LIFT CYLINDERS
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	Mast Group Number	A752 4087	A752 4387	A752 4640	A752 4940
	Cylinder Group Number	8604451	8604453	8604454	8604456
	Lift Cylinder	2036406	2036392	2036393	2036407
1	Shell	2037876	2037877	2037878	2037879
2	Rod	2037841	2037842	2037844	2037845

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	Mast Group Number	A752 5090	A752 5240	A752 6965
	Cylinder Group Number	8604457	8604458	8604470
	Lift Cylinder	2058776	2036408	2058786
1	Shell	2058020	2037880	2058031
2	Rod	2059115	2037846	2059126

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	Mast Group Number	A751 4365	A751 4665	A751 4900	A751 5200
	Cylinder Group Number	8604401	8604403	8604404	8604406
	Lift Cylinder	2036386	2036387	2036388	2036389
1	Shell	2037882	2037883	2037884	2037885
2	Rod	2037856	2037857	2037858	2037859

MAIN LIFT CYLINDERS THREE STAGE FULL FREE-LIFT

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	Mast Group Number	A751 5350	A751 5500	A751 7825
	Cylinder Group Number	8604407	8604408	8604424
	Lift Cylinder	2058758	2036390	2058773
1	Shell	2059079	2037886	2059094
2	Rod	2059097	2037860	2059112

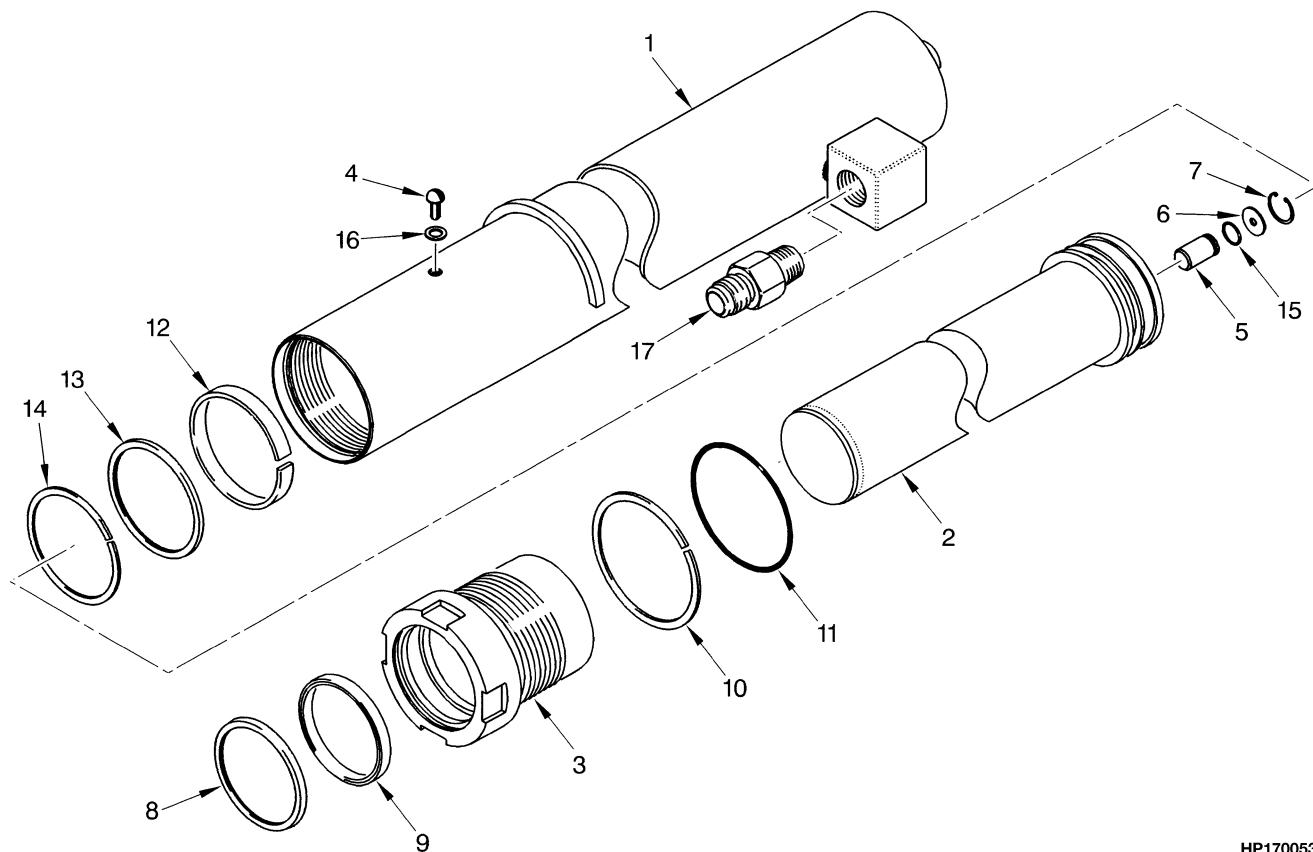
KEY:
A: H70-90XM
B: H100-120XM

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	2	2
1	a	Shell	1	1
2	a	Rod.....	1	1
3	2033243	Gland.....	1	..
3	2033299	Gland.....	..	1
4	215425	Wear Ring	1	..
4	215301	Wear Ring	..	1
5	2036212	Wiper Ring (Rod).....	1	..
5	2034269	Wiper Ring (Rod).....	..	1
6	201829	Rod Seal.....	..	1
6	270077	Rod Seal.....	1	..
7	638249	Back-Up Ring	1	..
7	638250	Back-Up Ring	..	1
8	57664	O-Ring	1	..
8	15879	O-Ring	..	1
9	297532	Wear Ring	1	..
9	351531	Wear Ring	..	1
10	1381061	Seal (Piston).....	1	..
10	1381062	Seal (Piston).....	..	1
11	2066437	Spacer (7825 mm).....	1	..
11	2035200	Spacer (6965 mm).....	..	1
12	2035787	Velocity Fuse	1	..
12	2036856	Velocity Fuse	..	1
13	638249	Back-Up Ring	1	..
13	351532	Back-Up Ring	..	1
14	1379063	Piston Ring.....	1	..
14	2036479	Piston Ring.....	..	1
	2036277	Seal Kit (Includes Items 4-10, 13-14)	1	..
	2036278	Seal Kit (Includes Items 4-10, 13-14)	..	1

FOOTNOTES:
a Refer to Table

[illegible]

FREE-LIFT CYLINDER (Figure 12-7) THREE STAGE FULL FREE-LIFT



HP170053

**FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT****H100-120XM**

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	Mast Group Number	A752 4087	A752 4387	A752 4640	A752 4940
	Cylinder Group Number	8520951	8520953	8520954	8520956
	Lift Cylinder	2062748	2062113	2062114	2062115
1	Shell	2065887	2066450	2066005	2065888
2	Rod	2062074	2062076	2062077	2062079

H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	Mast Group Number	A752 5090	A752 5240	A752 6965
	Cylinder Group Number	8520957	8520958	8520970
	Lift Cylinder	2062116	2062117	2062129
1	Shell	2066451	2066006	2066452
2	Rod	2062080	2062081	2062093

H70-90XM

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	Mast Group Number	A751 4365	A751 4665	A751 4900	A751 5200
	Cylinder Group Number	8605501	8605503	8605504	8605506
	Lift Cylinder	2036440	2036422	2036441	2036442
1	Shell	2037868	2037870	2037871	2037872
2	Rod	2037833	2037835	2037836	2037837

FREE-LIFT CYLINDER THREE STAGE FULL FREE-LIFT

H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS		
		5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	Mast Group Number	A751 5350	A751 5500	A751 7825
	Cylinder Group Number	8605507	8605508	8605524
	Lift Cylinder	2058788	2036443	2058801
1	Shell	2059128	2037873	2059142
2	Rod	2059145	2037838	2059159

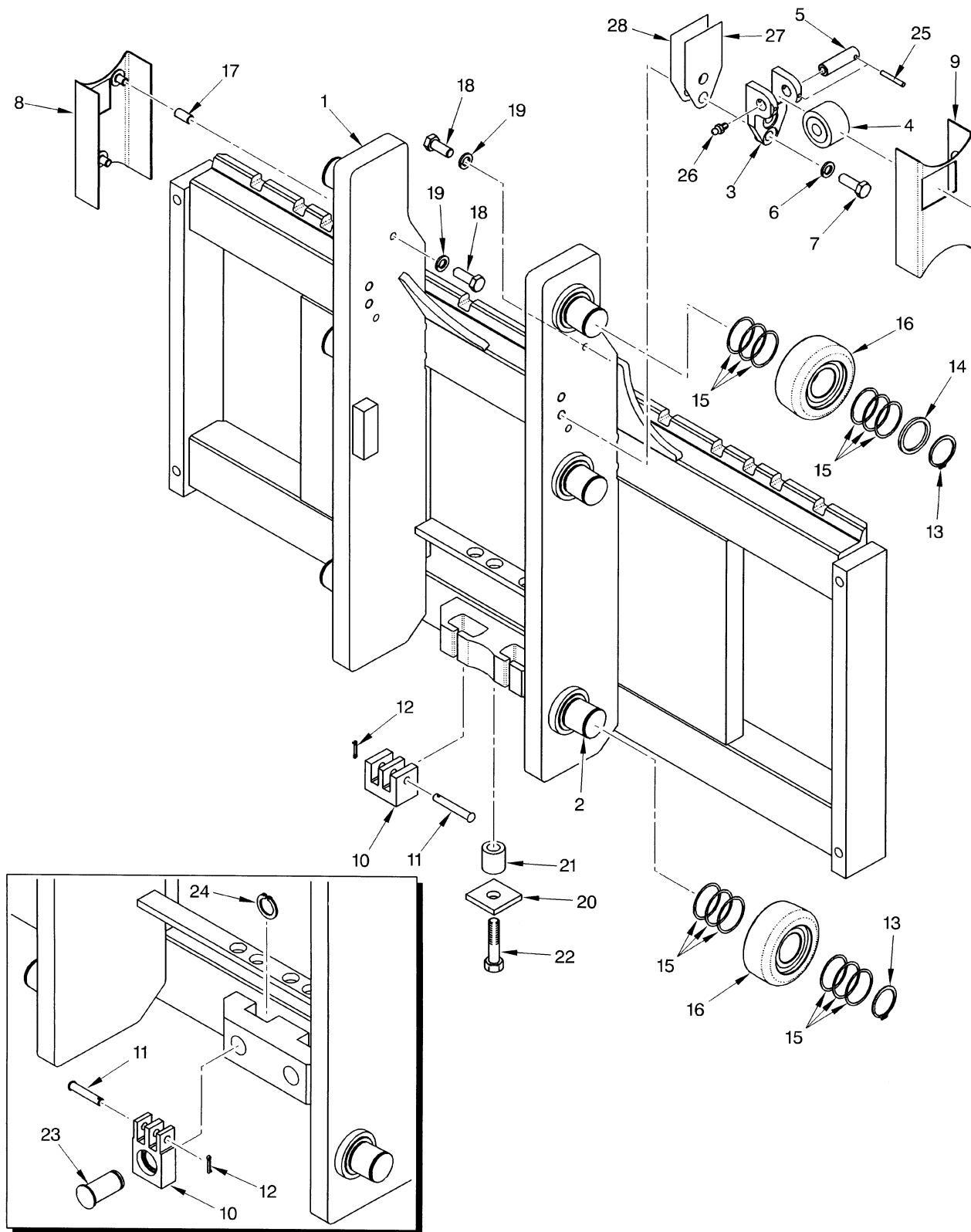
KEY:
A: H70-90XM
B: H100-120XM

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	a	Lift Cylinder.....	1	1
1	a	Shell	1	1
2	a	Rod.....	1	1
3	2036282	Gland.....	1	..
3	2036283	Gland.....	..	1
4	1361302	Screw	1	1
5	257913	Check Valve.....	1	1
6	297531	Washer	1	1
6	637635	Washer (Optional)	1	1
7	187388	Snap Ring.....	1	1
8	2034274	Wiper Ring (Rod).....	1	1
9	637161	Rod Seal (Rod).....	1	1
10	164632	Back-Up Ring	1	..
10	615145	Back-Up Ring	..	1
11	15885	O-Ring	..	1
11	46629	O-Ring	1	..
12	636950	Wear Ring	1	..
12	636952	Wear Ring	..	1
13	637162	Seal	1	..
13	637164	Seal	..	1
14	638293	Back-Up Ring	1	..
14	638295	Back-Up Ring	..	1
15	39348	O-Ring	1	1
16	190887	Seal	1	1
17	2036478	Velocity Fuse	1	..
17	2036857	Velocity Fuse	..	1
	2036279	Seal Kit (Includes Items 8-16)	1	..
	2036280	Seal Kit (Includes Items 8-16)	..	1

FOOTNOTES:
a Refer to Table

[illegible]

CARRIAGE (Figure 12-8) THREE STAGE FULL FREE-LIFT



HP170055

CARRIAGE

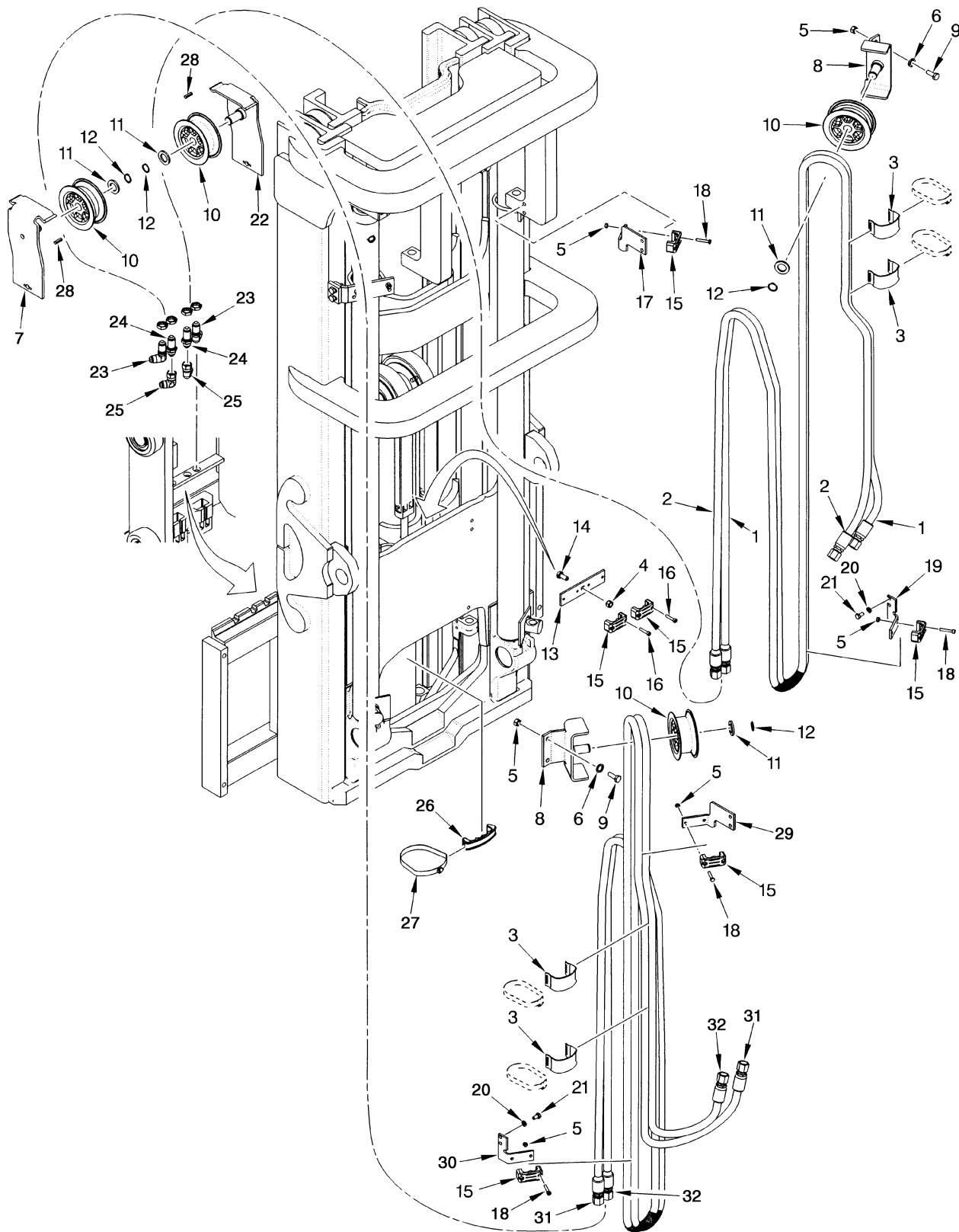
THREE STAGE FULL FREE-LIFT

KEY:**A: H70-90XM****B: H100-120XM**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
	2035792	Carriage (48 in.).....	1	..
	2035794	Carriage (60 in.).....	1	..
	2035796	Carriage (54 in.).....	..	1
	a 2037707	Carriage (54 in.).....	..	1
	2035797	Carriage (60 in.).....	..	1
1	1387457	Frame (48 in.).....	1	..
1	1387459	Frame (60 in.).....	1	..
1	1387497	Frame (54 in.).....	..	1
1	a 1465228	Frame (54 in.).....	..	1
1	1387498	Frame (60 in.).....	..	1
2	1500744	Stub Shaft	6	6
3	a 1465177	Bracket	..	2
4	a 1387993	Roller	..	2
5	a 1465028	Pin	..	2
6	292683	Lockwasher	..	4
7	292528	Capscrew	..	4
8	319323	Guard (LH) (LH)	1	1
9	319322	Guard (RH) (RH)	1	1
10	1387548	Chain Anchor.....	2	..
10	1480392	Chain Anchor.....	..	2
11	1387549	Pin (Anchor)	2	..
11	339932	Pin (Anchor)	..	2
12	15222	Cotter Pin	2	2
13	1465072	Snap Ring.....	6	6
14	1399224	Spacer	2	2
15	126765	Shim (0.020 in.)	24	24
16	1511883	Load Roller ("B") (0,26 mm)	6	6
17	317292	Spacer	4	4
18	18518	Capscrew	4	4
19	15155	Lockwasher	4	4
20	1400126	Plate	1	..
21	1400125	Spacer	1	..
22	292512	Capscrew	1	..
23	320327	Pin	..	2
24	131358	Snap Ring.....	..	2
25	a 66333	Pin	..	2
26	a 16001	Lube Fitting.....	..	2
27	a 192425	Shim (0.062 in.)	..	AR
28	a 192424	Shim (0.030 in.)	..	AR

FOOTNOTES:**a** Attachment Carriage (H90XM, 100XM)

HEADER HOSE (Figure 12-9) THREE STAGE FULL FREE-LIFT



HP170054

**HEADER HOSE
THREE STAGE FULL FREE-LIFT****FOUR FUNCTION H100-120XM**

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
					Mast Group Number	A752 4087	A752 4387	A752 4640
31	Hose (LH)					1399482	1399489	1399493
32	Hose (RH)					1399481	1399485	1399491

FOUR FUNCTION H100-120XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
					Mast Group Number	A752 5090	A752 5240
31	Hose (LH)					1399500	1399503
32	Hose (RH)					1399499	1399501

FOUR FUNCTION H70-90XM

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
					Mast Group Number	A751 4365	A751 4665	A751 4900
31	Hose (LH)					1473100	1399492	1399270
32	Hose (RH)					1399274	1399490	1399494

FOUR FUNCTION H70-90XM (CONT.)

ITEM	DESCRIPTION 1 2 3 4				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
					Mast Group Number	A751 5350	A751 5500
31	Hose (LH)					1399503	1399506
32	Hose (RH)					1399501	1399504

HEADER HOSE THREE STAGE FULL FREE-LIFT THREE FUNCTION H100-120XM

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS			
					4087 mm (160.9 in.)	4387 mm (172.7 in.)	4640 mm (182.7 in.)	4940 mm (194.5 in.)
	1	2	3	4				
	Mast Group Number				A752 4087	A752 4387	A752 4640	A752 4940
1	Hose (LH)				1399475	1399477	1399482	1399487
2	Hose (RH)				1399475	1399479	1399482	1399488

THREE FUNCTION H100-120XM (CONT.)

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS		
					5090 mm (200.4 in.)	5240 mm (206.3 in.)	6965 mm (274.2 in.)
	1	2	3	4			
	Mast Group Number				A752 5090	A752 5240	A752 6965
1	Hose (LH)				1399266	1467327	1399532
2	Hose (RH)				1399492	1399493	1399533

THREE FUNCTION H70-90XM

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS			
					4365 mm (171.9 in.)	4665 mm (183.7 in.)	4900 mm (192.9 in.)	5200 mm (204.7 in.)
	1	2	3	4				
	Mast Group Number				A751 4365	A751 4665	A751 4900	A751 5200
1	Hose (LH)				1399268	1399480	1399484	1399266
2	Hose (RH)				1399476	1399480	1399483	1399266

THREE FUNCTION H70-90XM (CONT.)

ITEM	DESCRIPTION				LIFT HEIGHT TO BOTTOM OF FORKS		
					5350 mm (210.6 in.)	5500 mm (216.5 in.)	7825 mm (308.1 in.)
	1	2	3	4			
	Mast Group Number				A751 5350	A751 5500	A751 7825
1	Hose (LH)				1467327	1399496	1399543
2	Hose (RH)				1399493	1399495	1399543

**HEADER HOSE
THREE STAGE FULL FREE-LIFT****KEY:****A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	a	Hose (LH)	1	..
2	a	Hose (RH)	1	..
3	1465489	Clamp	2	4
4	316826	Nut	1	1
5	313805	Nut	4	8
6	292682	Lockwasher	2	4
7	1387523	Bracket (Hose Mounting) (LH)	..	1
8	1387523	Bracket (Hose and Chain Guard)	2	4
9	287860	Capscrew	2	4
10	1332705	Sheave	2	2
11	320171	Washer	2	2
12	58902	Snap Ring	2	2
13	1389828	Bracket	1	1
14	287854	Capscrew	1	1
15	2035791	Clamp	3	6
16	293796	Capscrew	2	4
17	1474496	Bracket (RH)	1	..
18	292503	Capscrew	4	8
19	1387327	Bracket (RH)	1	1
20	292681	Lockwasher	2	4
21	287851	Capscrew	2	4
22	1399217	Bracket (Hose Mounting) (RH)	1	..
23	16458	Fitting	1	2
24	16448	Fitting	1	2
25	16989	Fitting	1	2
26	1388018	Spacer	1	1
27	1399243	Clamp	1	1
28	302472	Pin (Spring)	1	2
29	1474497	Bracket (LH)	..	1
30	1389854	Bracket (LH)	..	1
31	a	Hose (LH)	..	1
32	a	Hose (RH)	..	1

FOOTNOTES:**a** Refer to Table

[illegible]

SECTION 13
OPTIONS

DESCRIPTION	PAGE
ACCUMULATOR	
MAST LOAD DAMPENING.....	13-42
AUXILARY TUBE EXTENSION KIT	
TWO AND THREE STAGE FULL FREE-LIFT	13-64
TWO STAGE LIMITED FREE-LIFT	13-62
BACK-UP ALARM	13-4
CAB	
ATTACHING PARTS	
1 OF 6	13-16
2 OF 6	13-18
3 OF 6	13-20
4 OF 6	13-22
5 OF 6	13-24
6 OF 6	13-26
DOOR ASSEMBLY	
LEFT HAND	13-28
RIGHT HAND	13-30
WIRE HARNESES	13-32
CAB WIRE HARNESS	
HEADLIGHT AND HANDHELD LIGHT	13-35
WORKLIGHTS AND STROBE LIGHT	13-34
DRIVE TIRES AND WHEELS	
DUAL	13-70
DUAL MIRRORS	
WITHOUT CAB.....	13-14
FENDER EXTENSIONS.....	13-68
FRONT HEADLIGHTS	
WITHOUT CAB.....	13-8
HEATER INSTALLATION	
DIESEL TIER II	13-40
GASOLINE.....	13-36
LPG.....	13-38
INTEGRAL SIDE-SHIFT ASSEMBLY	
H100XM-120XM (54 AND 60 INCH)	
TWO AND THREE STAGE FULL-FREE-LIFT	13-58
H100XM-H120XM (54 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-48
H70XM - H90XM (48 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-44
H70XM-90XM (48 AND 60 INCH)	
TWO AND THREE STAGE FULL FREE-LIFT.....	13-52
INTEGRAL SIDE-SHIFT CARRIAGE	
H100XM - H120XM (54 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-50
H100XM-H120XM (54 AND 60 INCH)	
TWO AND THREE STAGE FULL FREE-LIFT.....	13-60
H70XM - H90XM (48 AND 60-INCH)	
TWO STAGE LIMITED FREE-LIFT	13-46
H70XM-90XM (48 INCH)	
TWO AND THREE STAGE FULL FREE-LIFT.....	13-54

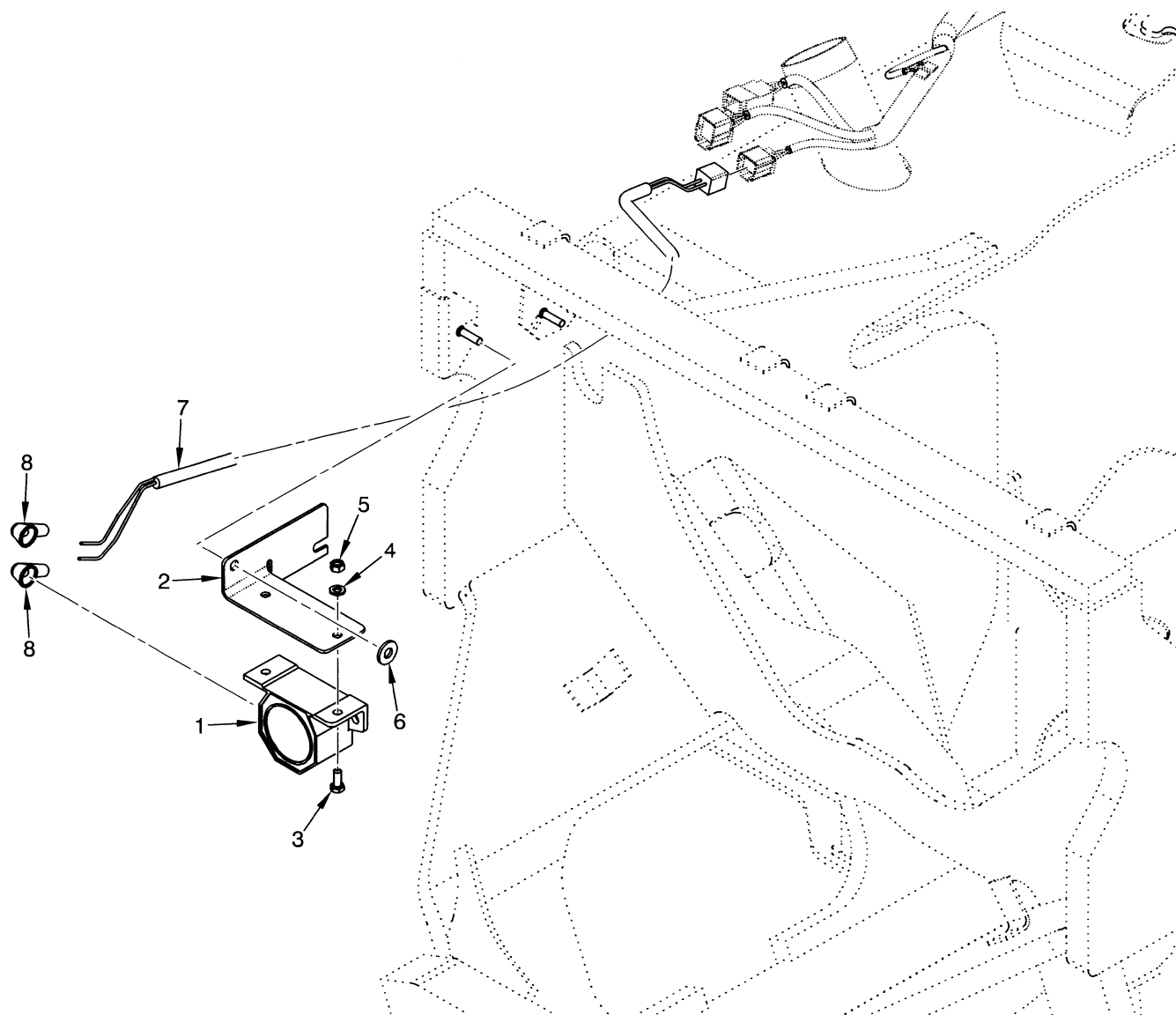
SECTION 13

OPTIONS (Continued)

DESCRIPTION	PAGE
H70XM-H90XM (60 INCH) TWO AND THREE STAGE FULL FREE-LIFT.....	13-56
LIFTING EYES	13-67
QUICK DISCONNECT FITTINGS	13-66
REAR DRIVE LIGHT WITHOUT CAB.....	13-10
STROBE LIGHT AMBER WITHOUT CAB	13-12
WIRE HARNESS BACK-UP ALARM.....	13-6

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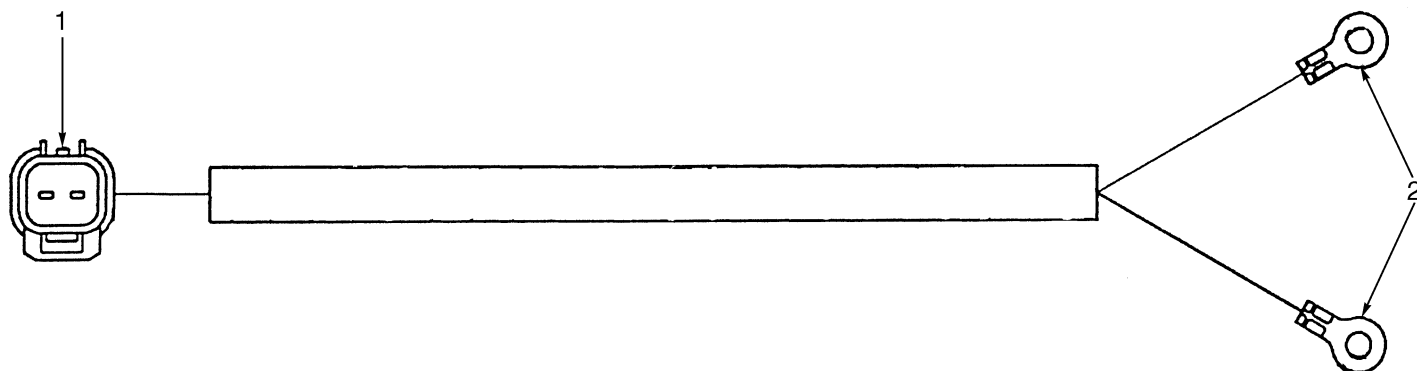
BACK-UP ALARM (Figure 13-1)



HP000041

BACK-UP ALARM

ITEM	PART NO.	DESCRIPTION	QTY
1	1339947	Alarm (82-102 dbA)	1
1	1350733	Alarm (87 dbA)	1
1	1350734	Alarm (97 dbA)	1
1	1350735	Alarm (102 dbA)	1
1	1350736	Alarm (107 dbA)	1
2	1466997	Bracket.....	1
3	292500	Capscrew.....	2
4	320156	Washer	2
5	302399	Nut	2
6	320158	Washer	1
7	2036924	Wire Harness (☞ Figure 13-2)	1
8	190382	Boot	2

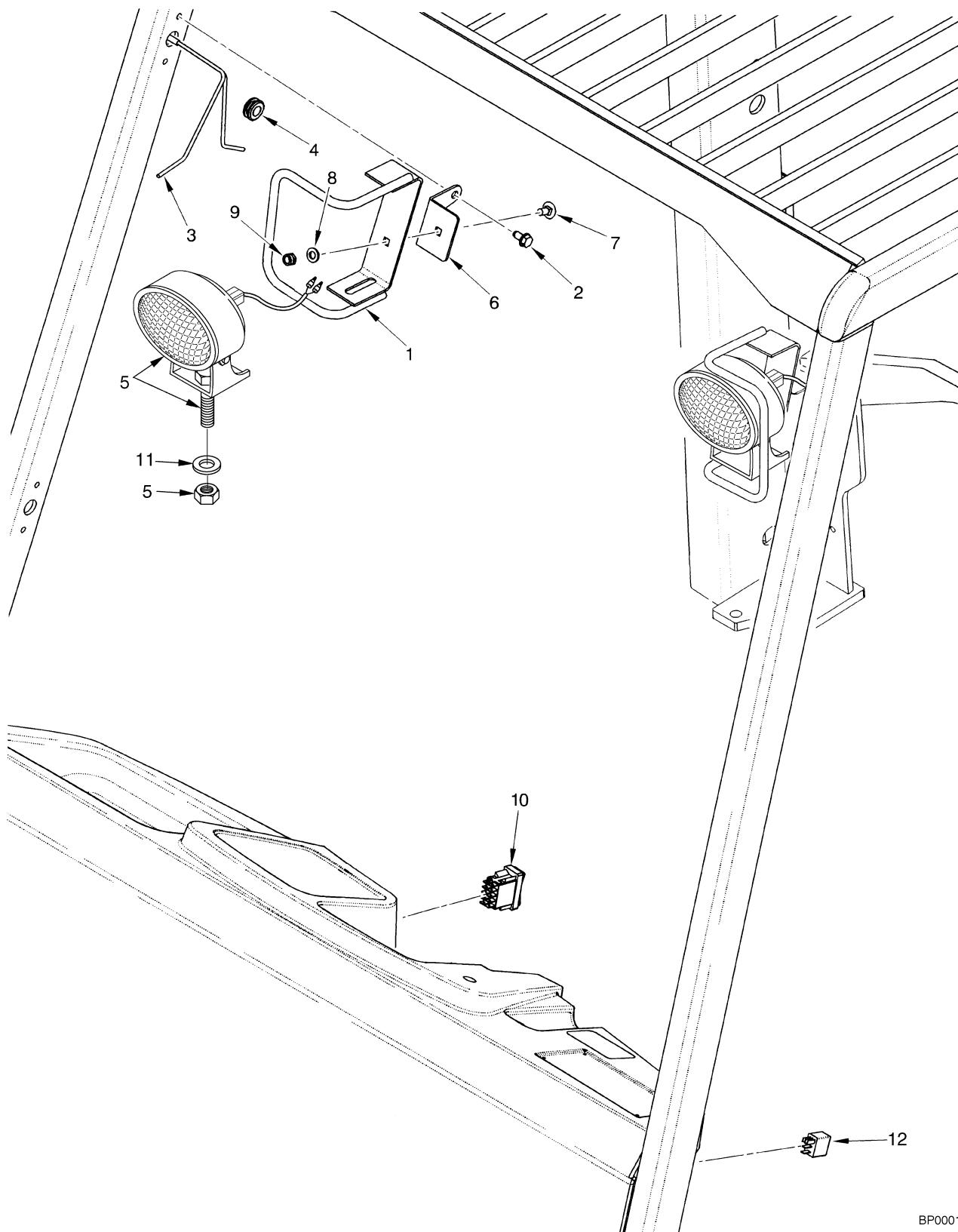
WIRE HARNESS (Figure 13-2)
BACK-UP ALARM

BP080058

ITEM	PART NO.	DESCRIPTION	QTY
	2036924	Wire Harness.....	1
1	1497288	Housing	1
1	1497299	Retainer.....	1
1	1484596	Terminal (Pin)	2
1	1484597	Seal	2
2	252293	Ring.....	2

[illegible]

FRONT HEADLIGHTS (Figure 13-3) WITHOUT CAB

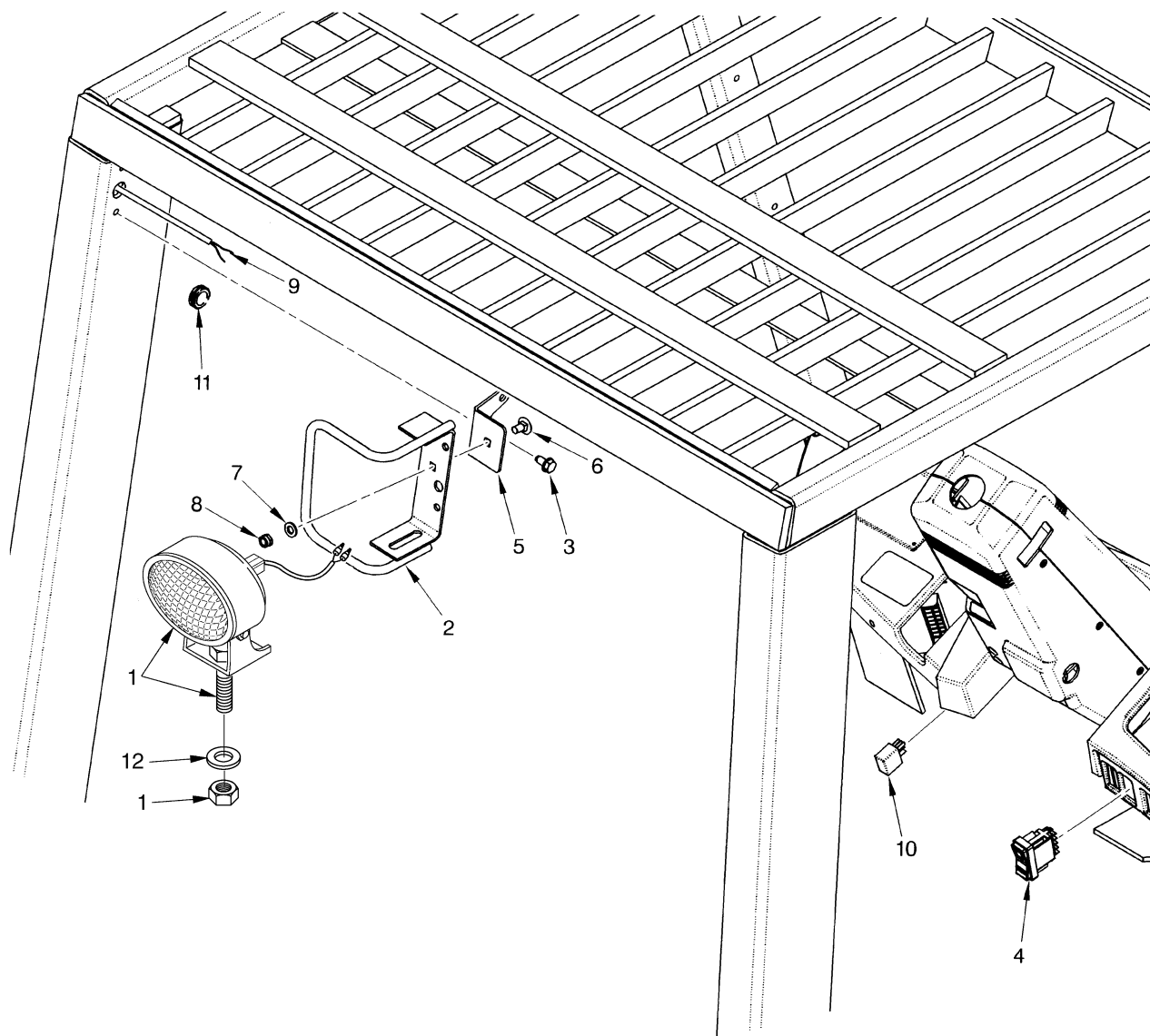


BP000145

**FRONT HEADLIGHTS
WITHOUT CAB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1375172	Bracket (LH).....	1
1	1375171	Bracket (RH)	1
2	316678	Screw.....	4
3	2036544	Wire Harness.....	2
4	1367645	Grommet.....	2
5	1531982	Headlight	2
5		Bolt	1
5		Nut.....	1
6	1375169	Bracket.....	2
7	1375168	Bolt	2
8	296418	Washer	2
9	316835	Nut	2
10	1397694	Switch	1
11	320158	Washer	2
12	2035581	Relay.....	1

REAR DRIVE LIGHT (Figure 13-4) WITHOUT CAB

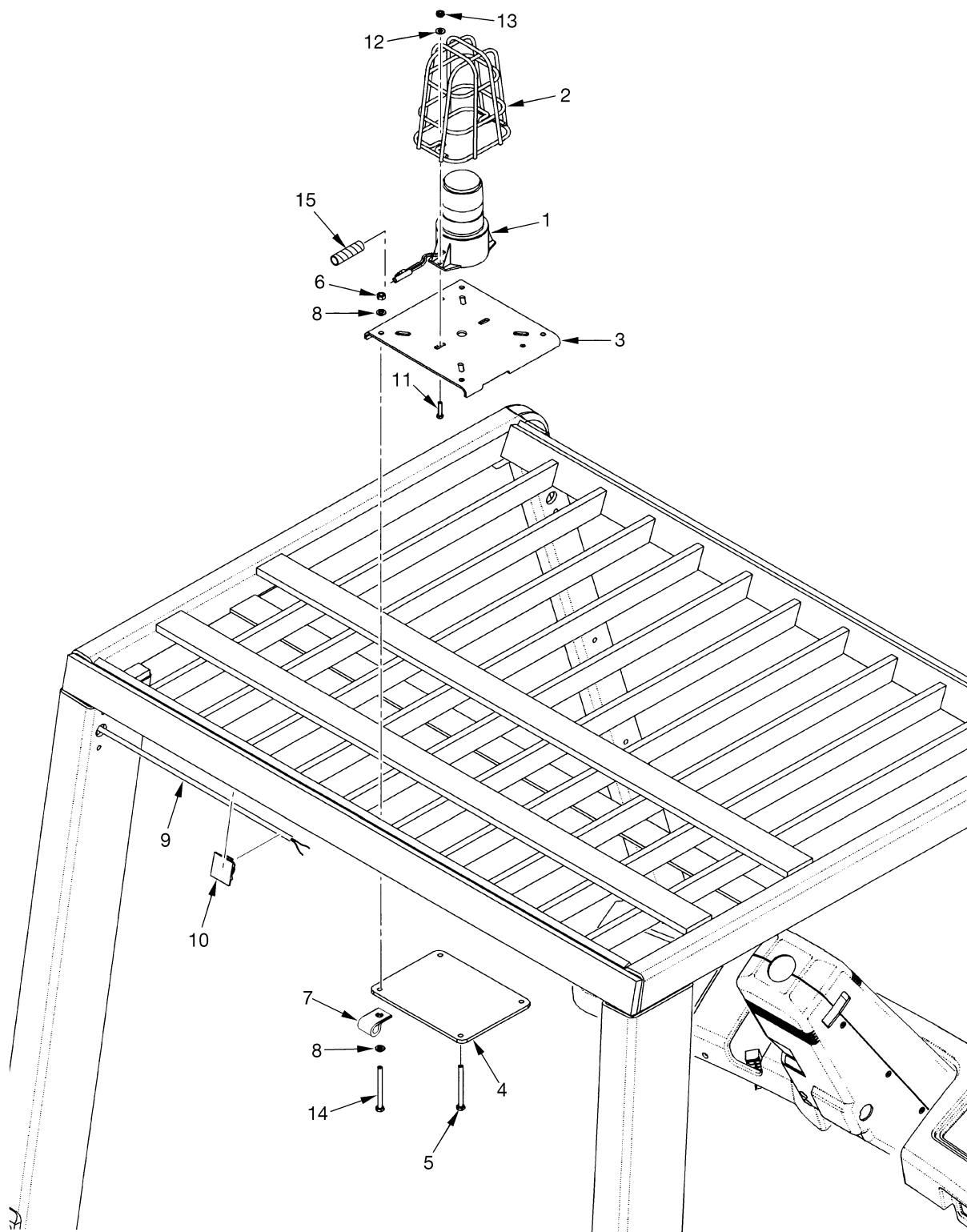


BP000148

**REAR DRIVE LIGHT
WITHOUT CAB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1531982	Headlight	1
1		Bolt	1
1		Nut.....	1
2	1376579	Bracket.....	1
3	316678	Screw.....	2
4	1399766	Switch	1
5	1375169	Bracket.....	1
6	1375168	Bolt	1
7	296418	Washer	1
8	316835	Nut	1
9	2036541	Wire Harness.....	1
10	2035581	Relay.....	1
11	1491175	Grommet.....	1
12	320158	Washer	1

STROBE LIGHT (Figure 13-5) AMBER WITHOUT CAB

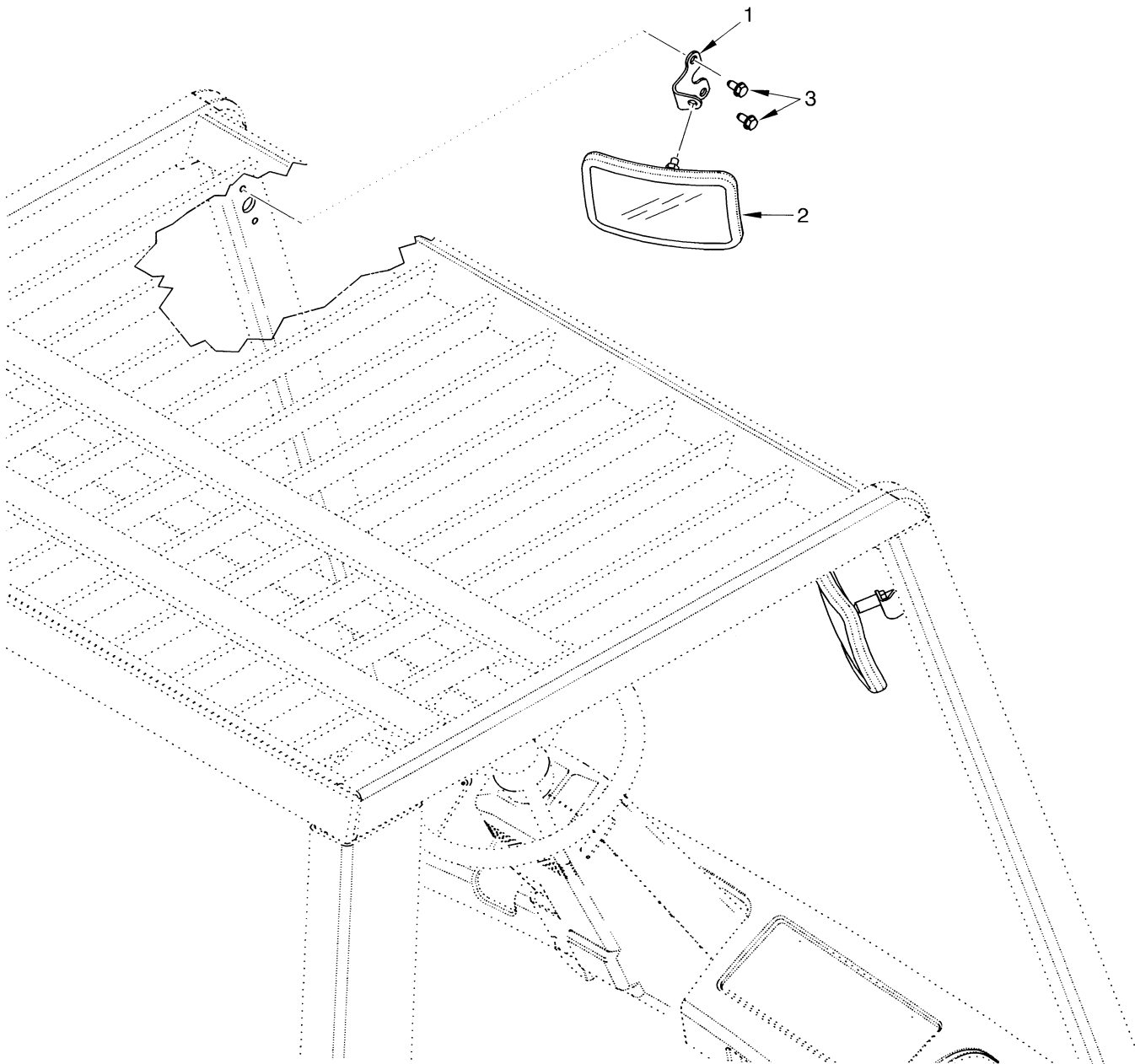


BP000149

**STROBE LIGHT
AMBER
WITHOUT CAB**

ITEM	PART NO.	DESCRIPTION	QTY
1	1399474	Strobe Light Assembly.....	1
1	1382130	Strobe Light (12-80 VDC).....	1
1	1309775	Bulb.....	1
1	1526082	Lens (Amber)	1
1	1324308	Electrical Fitting.....	1
1	1324307	Electrical Fitting.....	1
1	1324310	Terminal (Amber).....	1
1	1324309	Connector.....	1
2	1302024	Guard.....	1
3	1399764	Bracket.....	1
4	1399762	Plate	1
5	337239	Capscrew.....	3
6	313805	Nut	4
7	164488	Clamp	1
8	320156	Washer	5
9	2036541	Wire Harness.....	1
10	1301727	Clamp	4
11	220498	Screw.....	2
12	197067	Washer	2
13	230882	Nut	2
14	1456686	Capscrew.....	1

DUAL MIRRORS (Figure 13-6) WITHOUT CAB

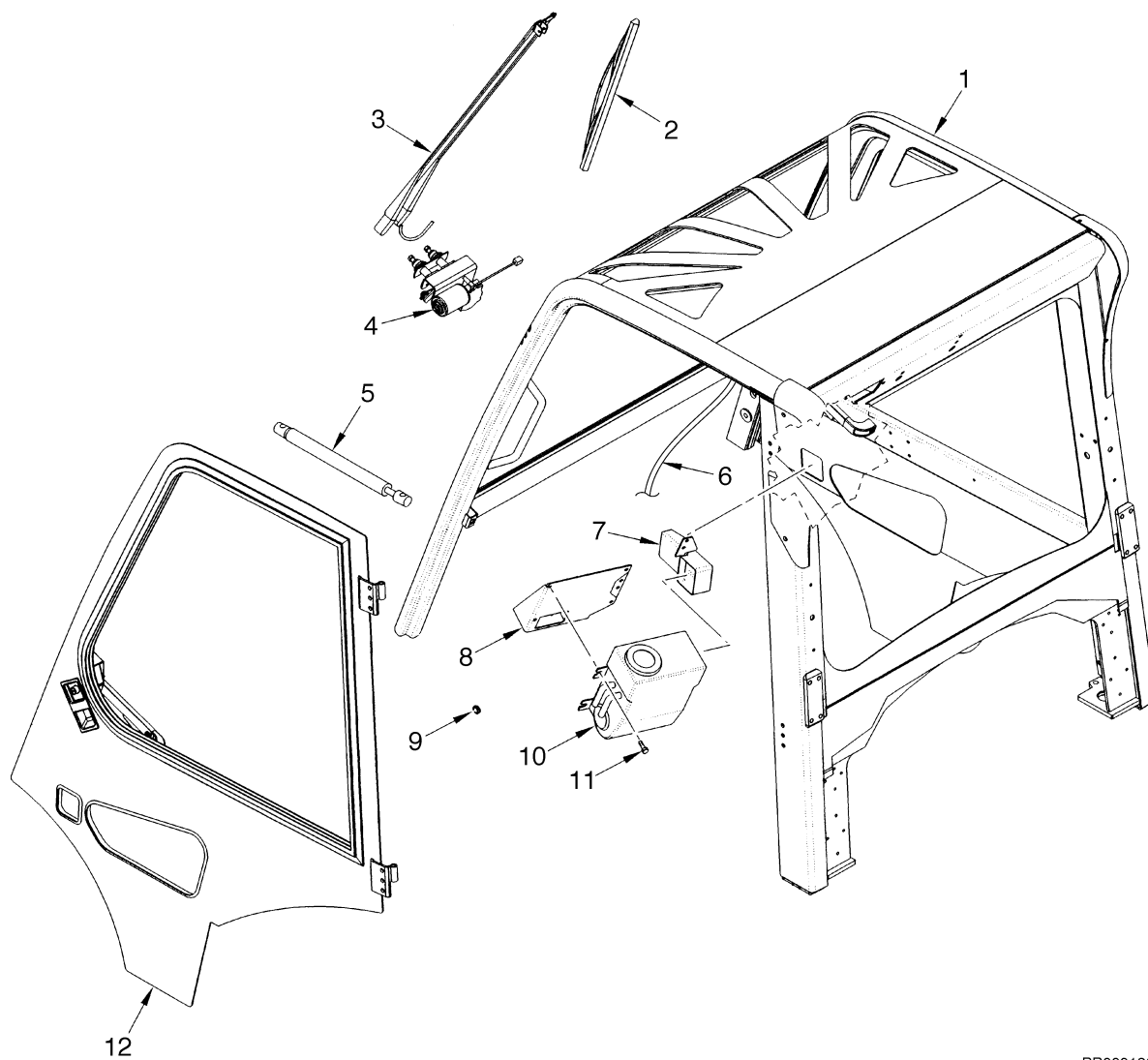


HP000029

ITEM	PART NO.	DESCRIPTION	QTY
1	1356520	Bracket.....	2
2	1301286	Mirror	2
3	316678	Screw.....	4

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CAB (Figure 13-7) ATTACHING PARTS 1 OF 6



BP000180

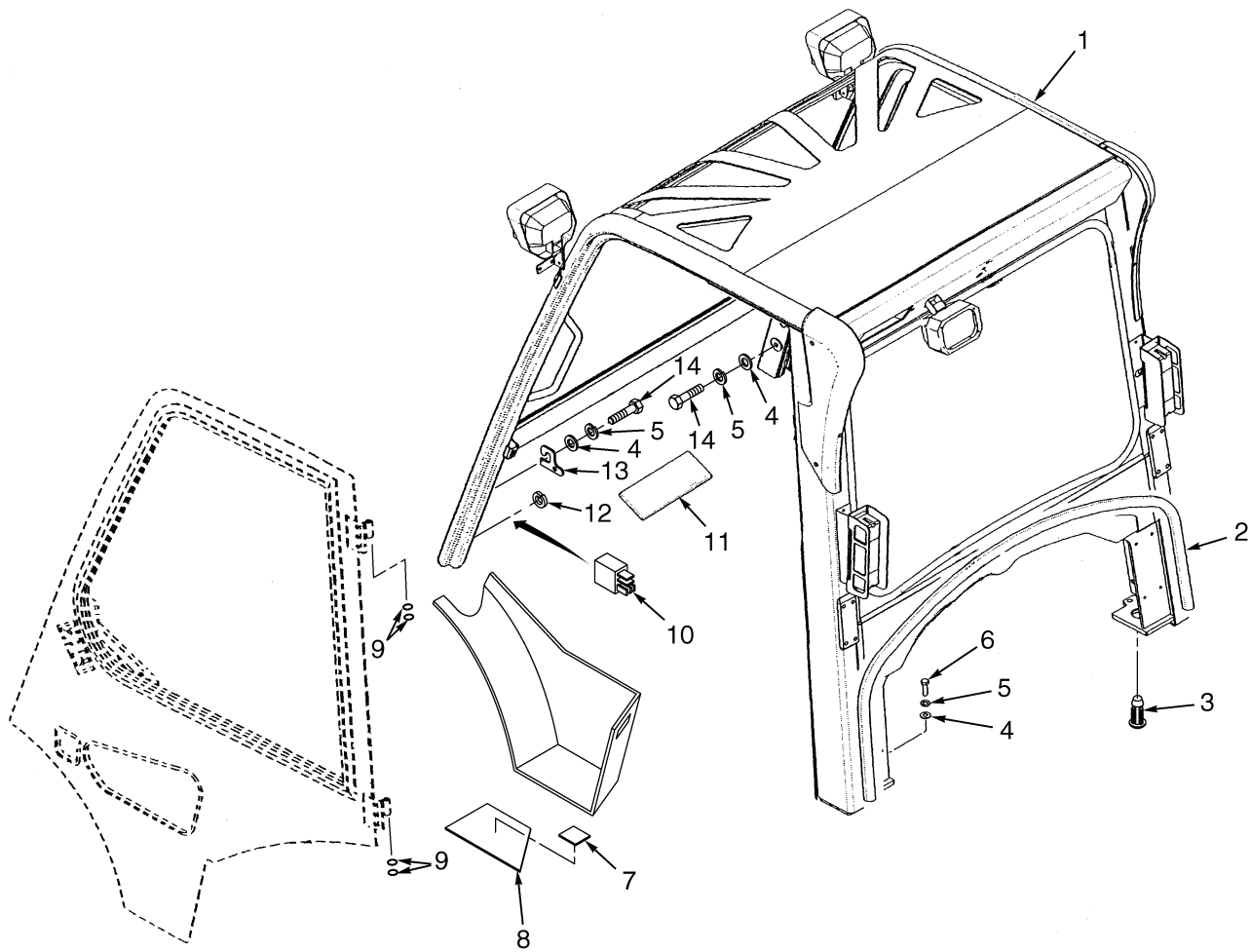
CAB

ATTACHING PARTS

1 OF 6

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Cab Assembly.....	1
2	1520927	Wiper blade	1
3	1393493	Wiper Arm	1
4	1393492	Wiper Motor.....	1
5	1393471	Gas Spring	2
6	1505287	Wire Harness (☞ Figure 13-15)	1
7	1474951	Heat Duct	1
8	1474950	Bracket	1
9	1474703	Grommet	1
10	1393540	Heater.....	1
11	1468311	Screw	6
12	1474701	Door Assembly (LH) (☞ Figure 13-13)	1
12	1474702	Door Assembly (RH) (☞ Figure 13-14)	1

CAB (Figure 13-8) ATTACHING PARTS 2 OF 6

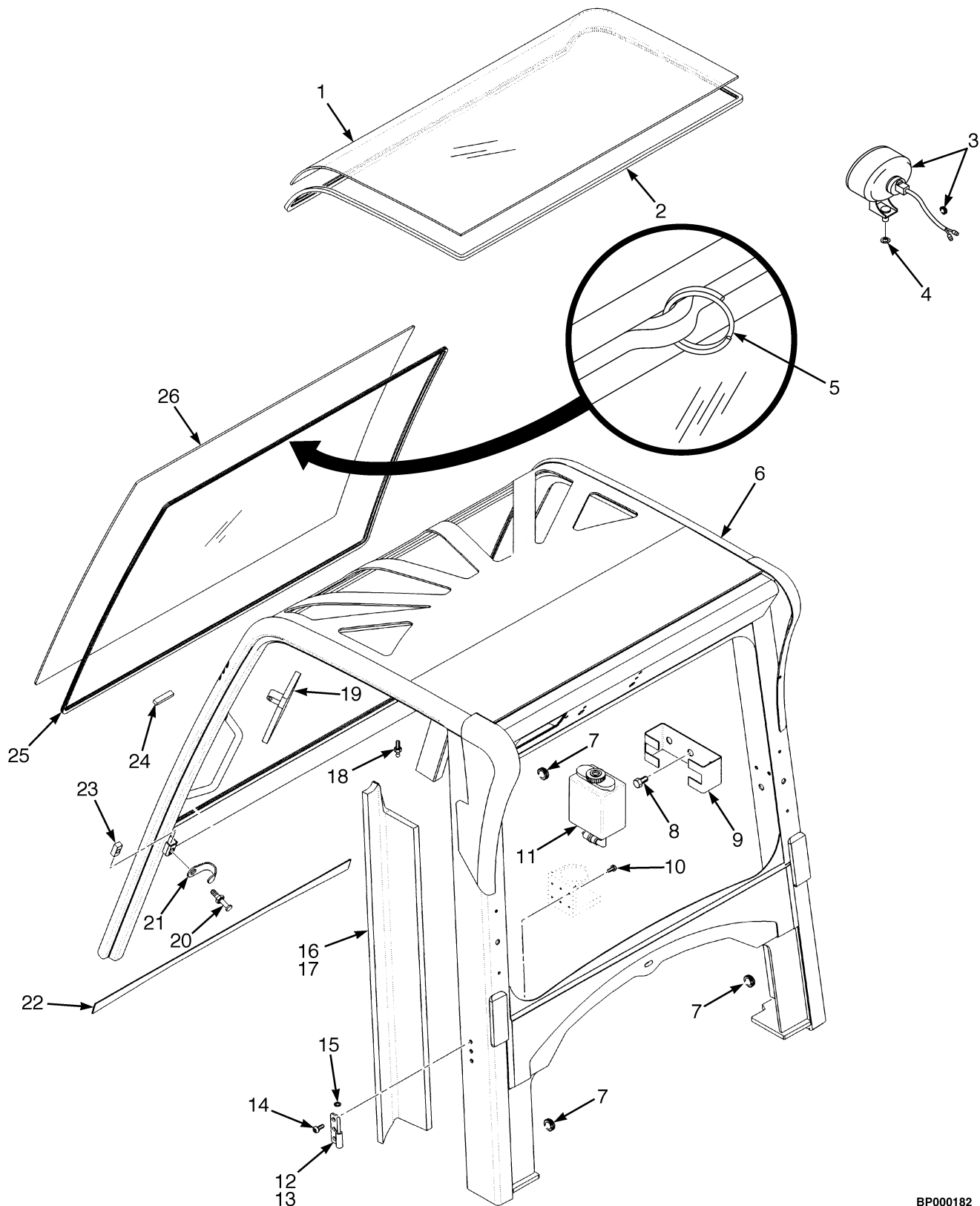


BP000142

CAB **ATTACHING PARTS** **2 OF 6**

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Cab Assembly.....	1
2	1465740	Seal	1
3	1363916	Plug	2
4	296423	Washer	6
5	292683	Lockwasher	6
6	293645	Capscrew	4
7	1330920	Label (No Riders) (Used with item 8)	2
7	355844	Adhesive (Used with item 8).....	AR
8	1479092	Step Floor mat (LH).....	1
8	1479093	Step Floor mat (RH)	1
9	1301700	Bushing (Brass).....	AR
10	2035581	Relay (Cab Power)	1
11	1400207	Cover.....	1
12	260045	Grommet	2
13	1392740	Shim (0.039 in.)	AR
14	293647	Capscrew	2

CAB (Figure 13-9) ATTACHING PARTS 3 OF 6

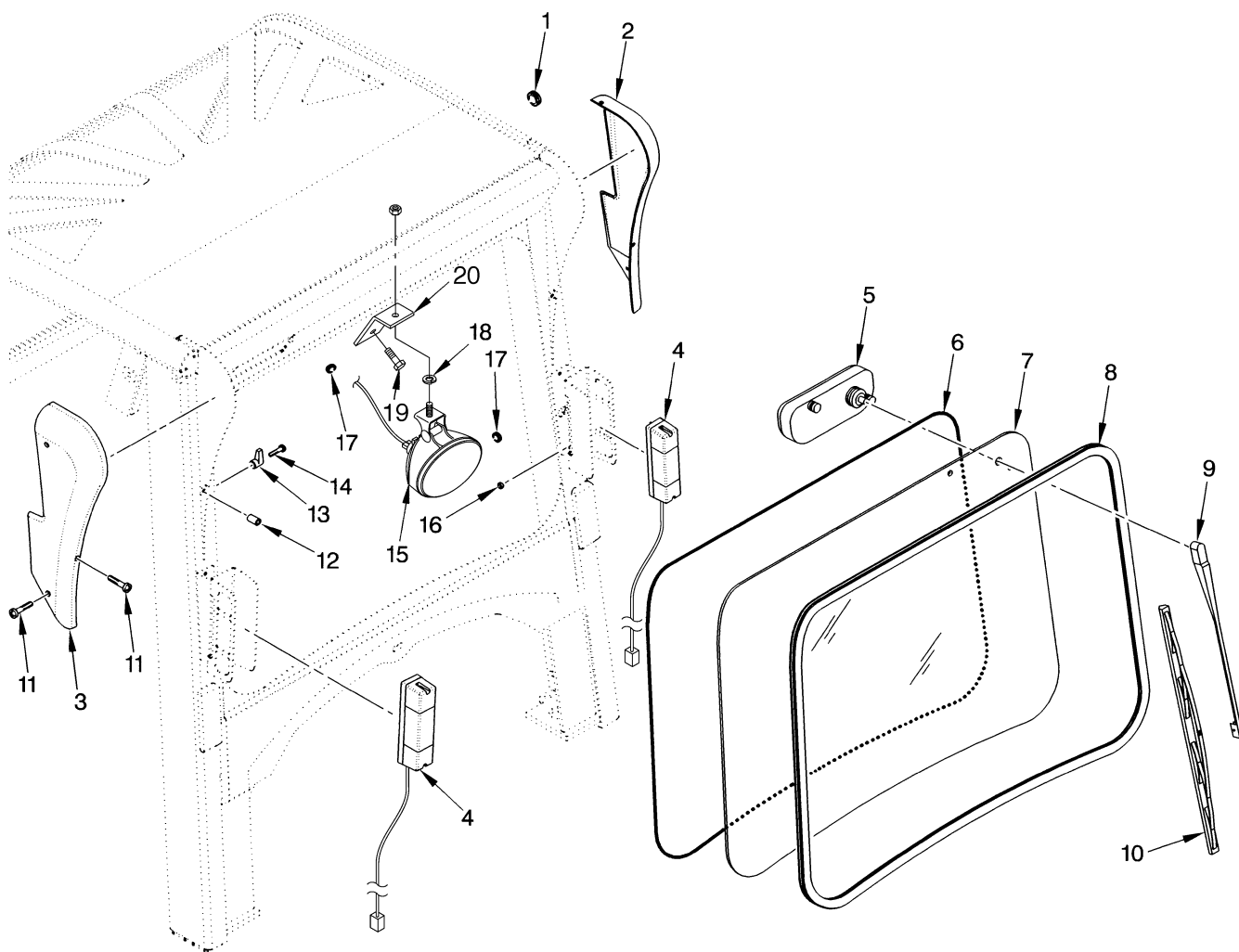


BP000182

CAB **ATTACHING PARTS** **3 OF 6**

ITEM	PART NO.	DESCRIPTION	QTY
	.....	Cab Assembly.....	1
1	1502769	Skylight.....	1
2	1502770	Tape (Sealing)	1
3	1531982	Headlight	2
3	1393517	Grommet	2
4	296419	Washer	14
5	1502768	Quick Release Ring.....	4
6	1474957	Frame	1
7	1393511	Grommet	5
8	1468309	Screw	2
9	1474954	Bracket	1
10	1468307	Screw	5
11	1393543	Reservoir Bottle.....	1
12	1474952	Hinge (LH)	2
13	1474953	Hinge (RH)	2
14	1468311	Screw	12
15	1468312	Washer	4
16	1393453	Post Cover (LH)	1
17	1393454	Post Cover (RH)	1
18	1393472	Ball Stud	2
19	1485806	Mirror (Second)	1
19	1485807	Bracket (Second Mirror)	1
20	1393486	Striker Bolt.....	2
21	1393541	Guard	2
22	1393455	Cover (Front)	1
23	1393488	Block (Mounting)	1
24	1474709	Block.....	2
25	1504083	Glue Kit (Front Window)	1
25	1502771	Activator	AR
25	1502772	Glue	AR
26	1504084	Window (Front)	1
	1474820	Sealant (Not Illustrated).....	1
	1474821	Adhesive (Not Illustrated)	1
	1393503	Activator (Not Illustrated).....	1

CAB (Figure 13-10) ATTACHING PARTS 4 OF 6

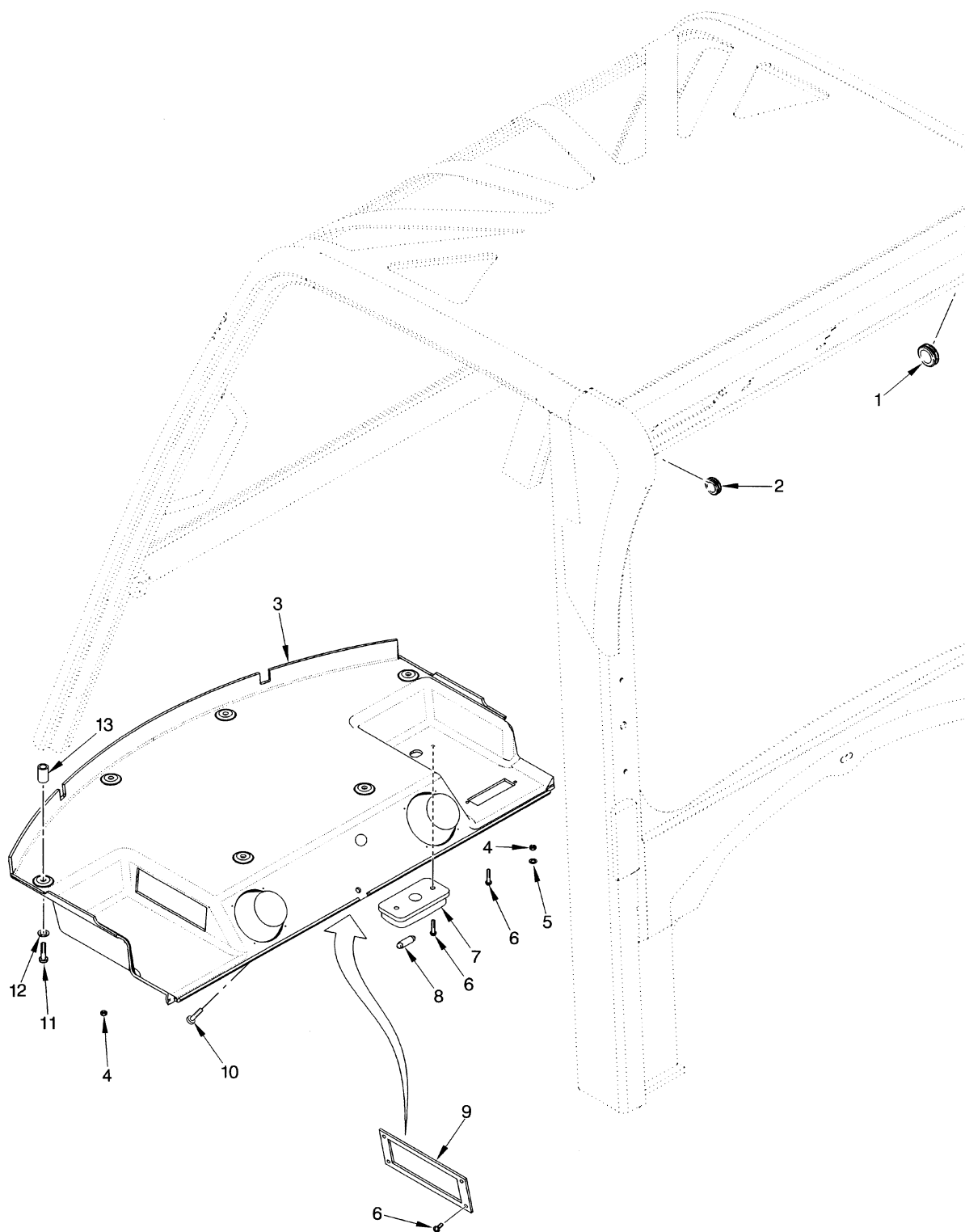


BP000183

CAB **ATTACHING PARTS** **4 OF 6**

ITEM	PART NO.	DESCRIPTION	QTY
	.....	Cab Assembly.....	1
1	1393511	Grommet	2
2	1393451	Ear (LH).....	1
3	1393452	Ear (RH)	1
4	1553084	Brake and Back-Up Light.....	2
4	177521	Bulb (12 Volt).....	1
4	1302258	Bulb	2
4	1376439	Lens (Clear)	1
4	1376440	Lens (Red)	1
4	1380757	Lens (Amber)	1
4	1376446	Screw	2
5	1393504	Wiper Motor.....	1
6	1393497	Seal (Rubber).....	1
7	1493909	Window (Rear)	1
8	1393466	Seal (Rubber)	1
9	1393505	Wiper Arm	1
10	1474955	Wiper Blade.....	1
11	302047	Screw	6
12	1474710	Insert	12
13	1393458	Hanger (Coat).....	1
14	1468307	Screw	1
15	1531982	Headlight	1
16	302324	Nut.....	4
17	1393514	Grommet	5
18	296419	Washer	1
19	292500	Capscrew	1
20	1546322	Bracket	1

CAB (Figure 13-11) ATTACHING PARTS 5 OF 6

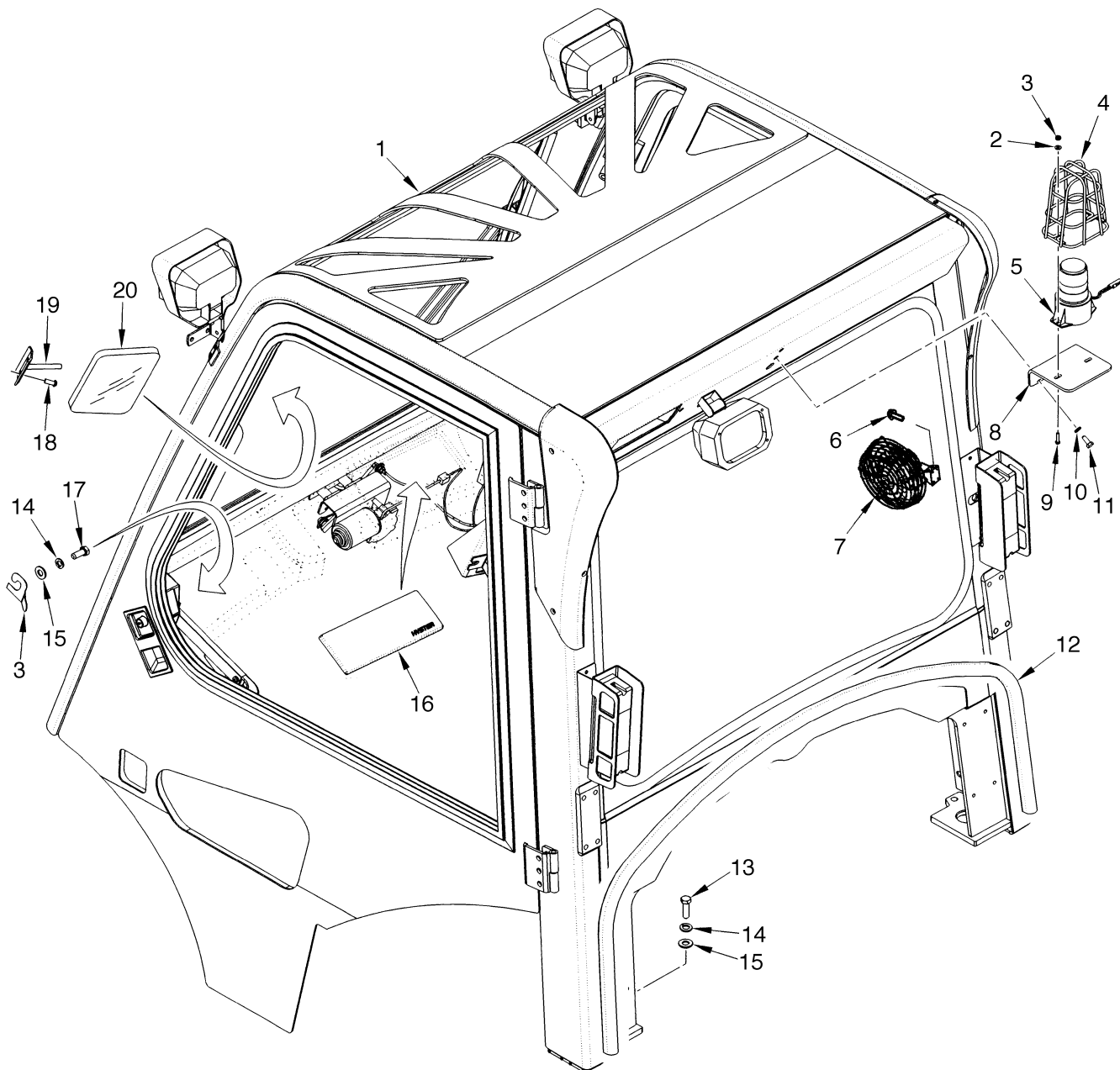


BP000184

**CAB
ATTACHING PARTS
5 OF 6**

ITEM	PART NO.	DESCRIPTION	QTY
	.....	Cab Assembly.....	1
1	1474704	Grommet	1
2	1393511	Grommet	1
3	1393524	Headliner	1
4	292667	Nut.....	16
5	296415	Washer	2
6	302023	Screw	8
7	1393528	Dome Light.....	1
8	1393527	Bulb	1
9	1474956	Plate	1
10	1468320	Screw	8
11	302049	Screw	7
12	1468321	Washer	7
13	1474711	Insert	9

CAB (Figure 13-12) ATTACHING PARTS 6 OF 6

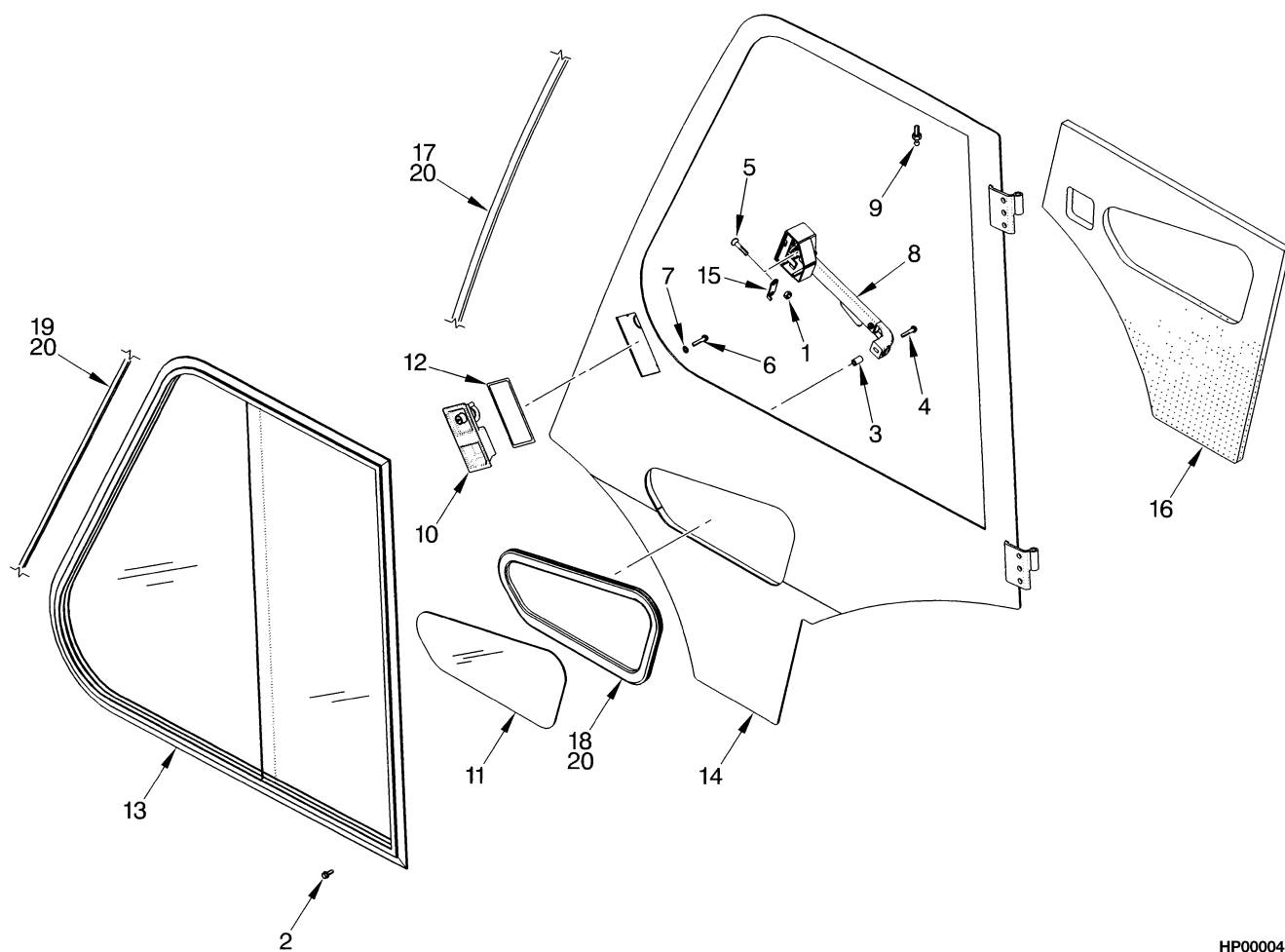


BP000178

CAB **ATTACHING PARTS** **6 OF 6**

ITEM	PART NO.	DESCRIPTION	QTY
1	.....	Cab Assembly.....	1
2	197067	Washer	2
3	1392740	Shim (0.039 in.)	AR
3	230882	Nut.....	2
4	1302024	Guard	1
5	1399474	Strobe Light Assembly	1
5	1382131	Lens (Amber)	1
5	1309775	Bulb.....	1
6	293726	Screw (Allen)	3
7	1503620	Fan	1
8	1392797	Bracket	1
9	220498	Screw	2
10	292681	Lockwasher	2
11	136681	Capscrew	2
12	1465740	Seal	1
13	293647	Capscrew	2
14	292683	Lockwasher	6
15	296423	Washer	6
16	1400207	Cover.....	1
17	293645	Capscrew	4
18	369242	Capscrew	2
19	1392818	Bracket	1
20	1392819	Mirror.....	1

CAB (Figure 13-13) DOOR ASSEMBLY LEFT HAND

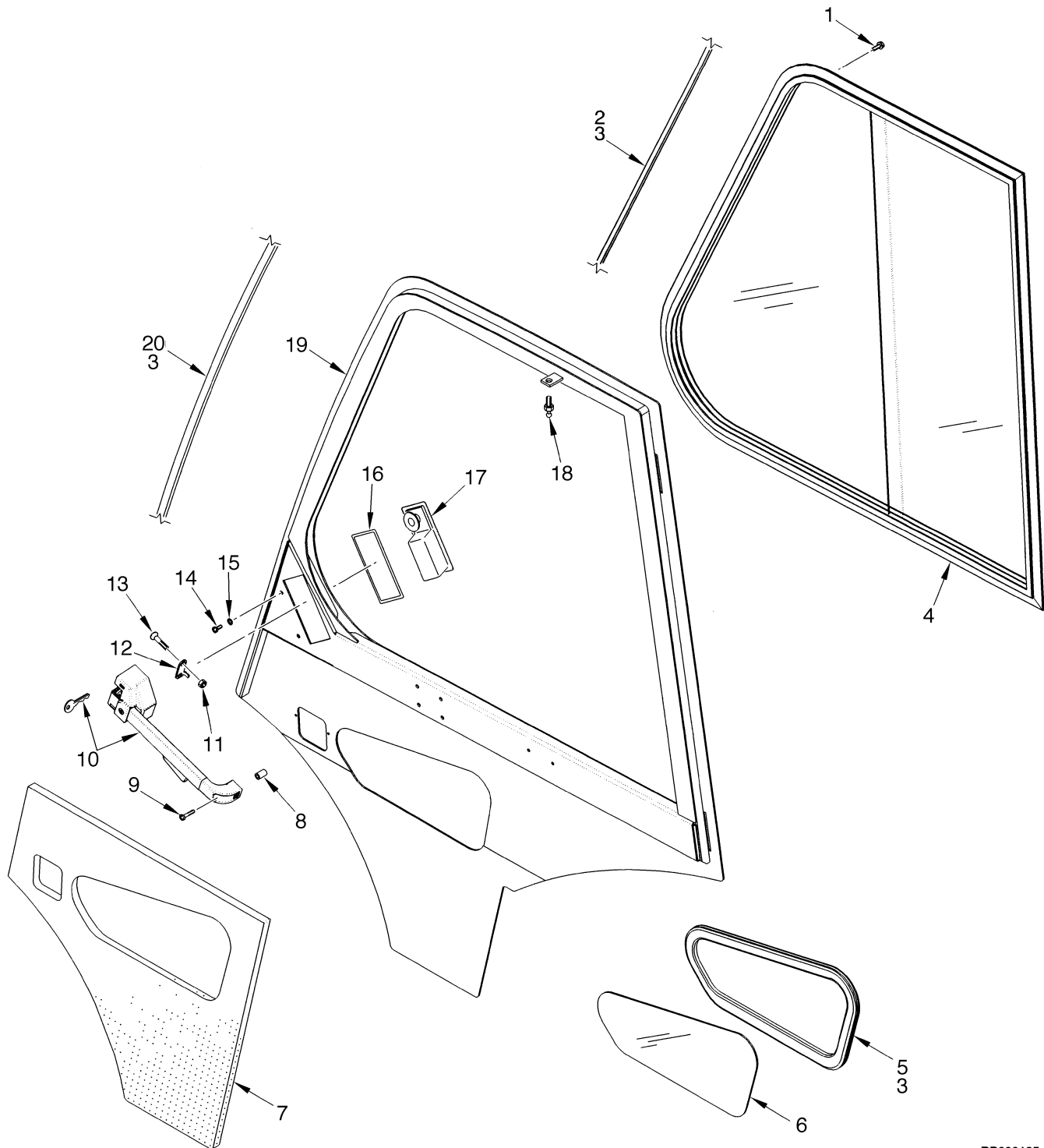


HP000048

CAB DOOR ASSEMBLY LEFT HAND

ITEM	PART NO.	DESCRIPTION	QTY
	1474701	Door Assembly (Left Hand)	1
1	316835	Nut.....	2
2	1474765	Screw	11
3	1474710	Insert	1
4	302048	Screw	1
5	296229	Capscrew	2
6	1468310	Screw	3
7	1474766	Washer	3
8	1393479	Handle	1
9	1393472	Ball Stud	1
10	1393480	Latch.....	1
11	1393464	Window (Lower)	1
12	1393485	Seal	1
13	1504094	Window Assembly (LH)	1
13	1504085	Glass (LH Front Sliding).....	1
13	1504086	Glass (LH Rear Fixed)	1
13	1504089	Latch	1
14	1474959	Frame (Door)	1
15	1474960	Plate (Door Lock)	1
16	1393467	Cover (Door).....	1
17	1393463	Seal	1
18	1474767	Window Seal (Lower)	1
19	1474768	Seal (Sliding Window)	1
20	1474820	Sealant	1
	1474821	Adhesive (Not Illustrated)	1
	1493913	Door Key (Not Illustrated)	1

CAB (Figure 13-14) DOOR ASSEMBLY RIGHT HAND

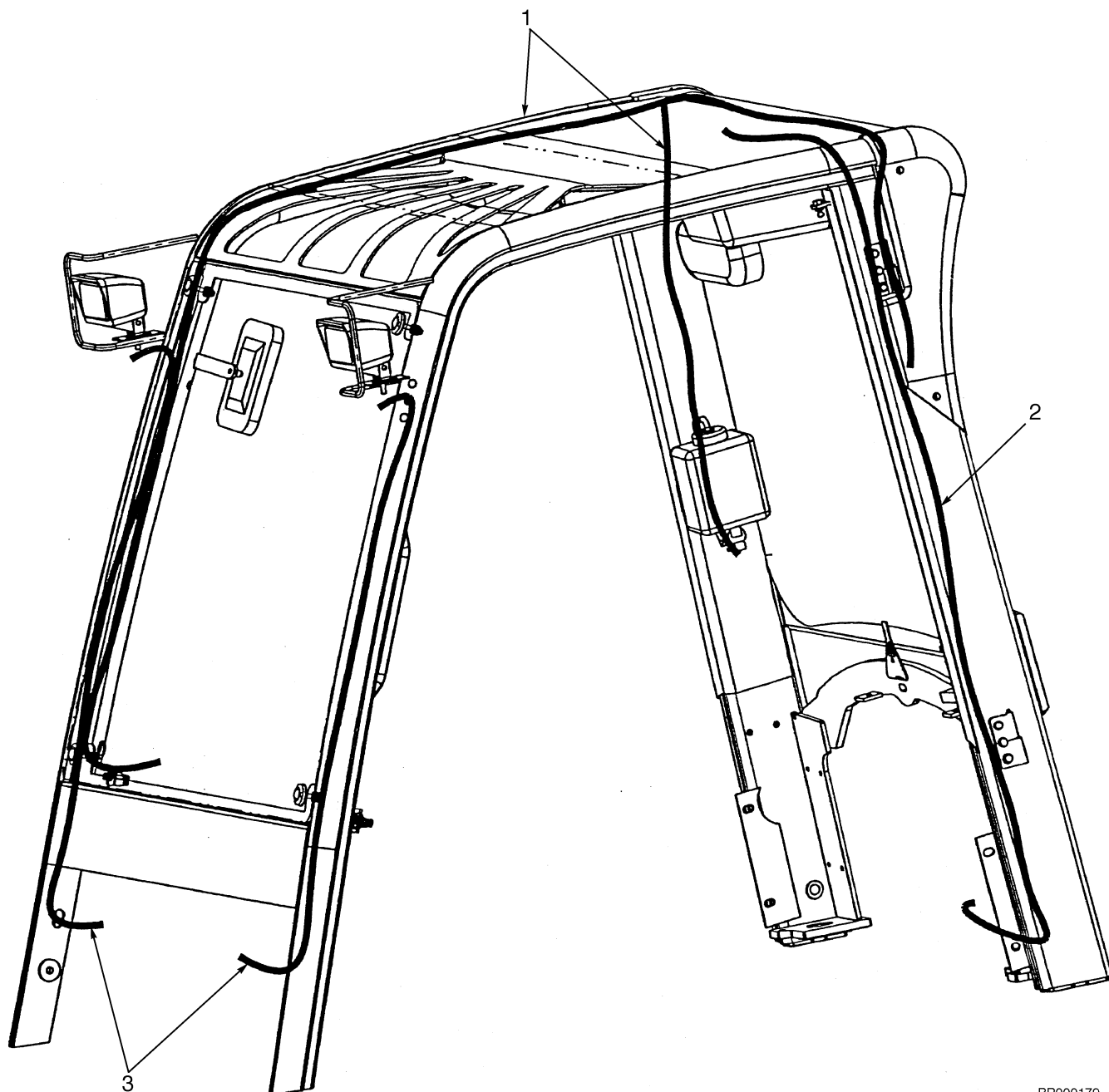


BP000185

CAB **DOOR ASSEMBLY** **RIGHT HAND**

ITEM	PART NO.	DESCRIPTION	QTY
	1474702	Door Assembly	1
1	1474765	Screw	12
2	1474768	Seal (Sliding Window)	1
3	1474820	Sealant	1
4	1504095	Window Assembly (RH)	1
4	1504088	Glass (RH) (Rear Fixed)	1
4	1504087	Glass (RH) (Front Sliding)	1
4	1504089	Latch	1
5	1474767	Window Seal (Lower)	1
6	1393464	Window (Lower)	1
7	1393468	Cover (Door)	1
8	1474710	Insert	1
9	302048	Screw	1
10	1393482	Handle	1
10	1493913	Door Key	1
11	316835	Nut	2
12	1474961	Plate (Door Lock)	1
13	296229	Capscrew	2
14	1468310	Screw	3
15	1474766	Washer	3
16	1393485	Seal	1
17	1393483	Latch	1
18	1393472	Ball Stud	1
19	1474962	Frame (Door)	1
20	1393463	Seal	1

CAB (Figure 13-15) WIRE HARNESSSES



BP000179

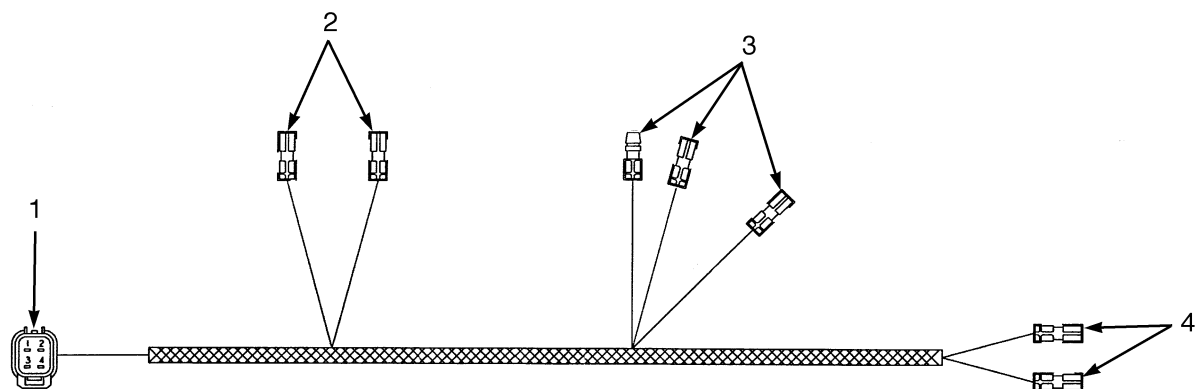
ITEM	PART NO.	DESCRIPTION	QTY
1	1505287	Wire Harness (Main).....	1
1	a 1494692	Wiper Switch (Front).....	1
1	a 1494693	Wiper Switch (Rear)	1
1	a 1494673	Heater Blower Switch	1
1	a 1393547	Switch Panel.....	1
1	a 1393537	Relay	1

**CAB
WIRE HARNESSSES**

ITEM	PART NO.	DESCRIPTION	QTY
2	2036541	Wire Harness (Auxiliary) (☞ Figure 13-16)	1
3	2036544	Wire Harness (Headlights) (☞ Figure 13-17)	1

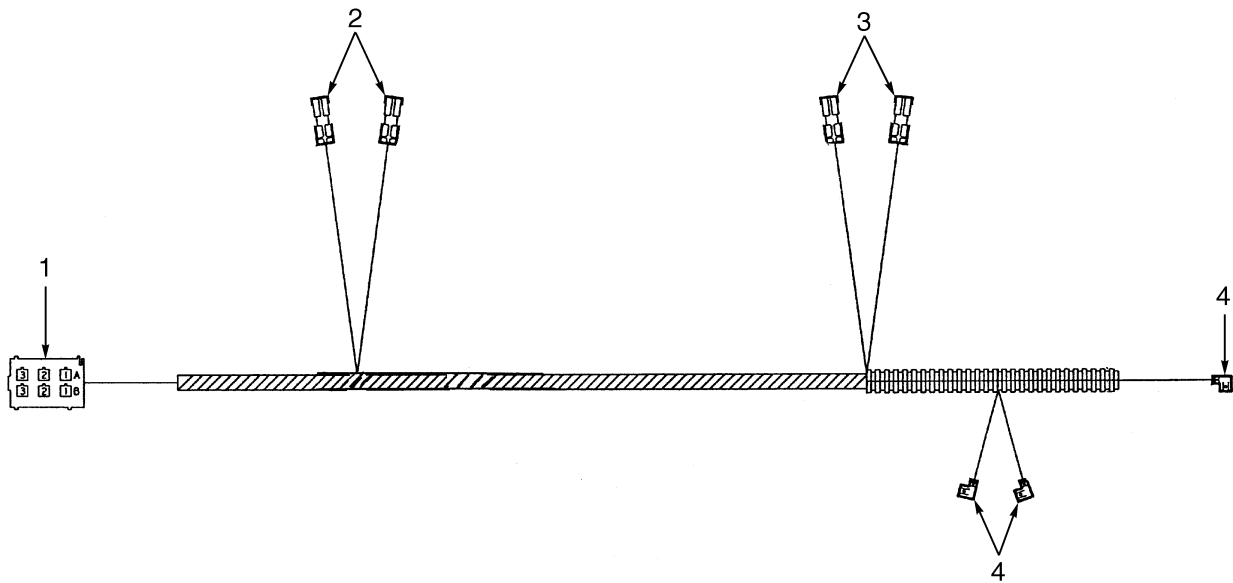
FOOTNOTES:**a** Not Illustrated

CAB WIRE HARNESS (Figure 13-16) WORKLIGHTS AND STROBE LIGHT



BP080089

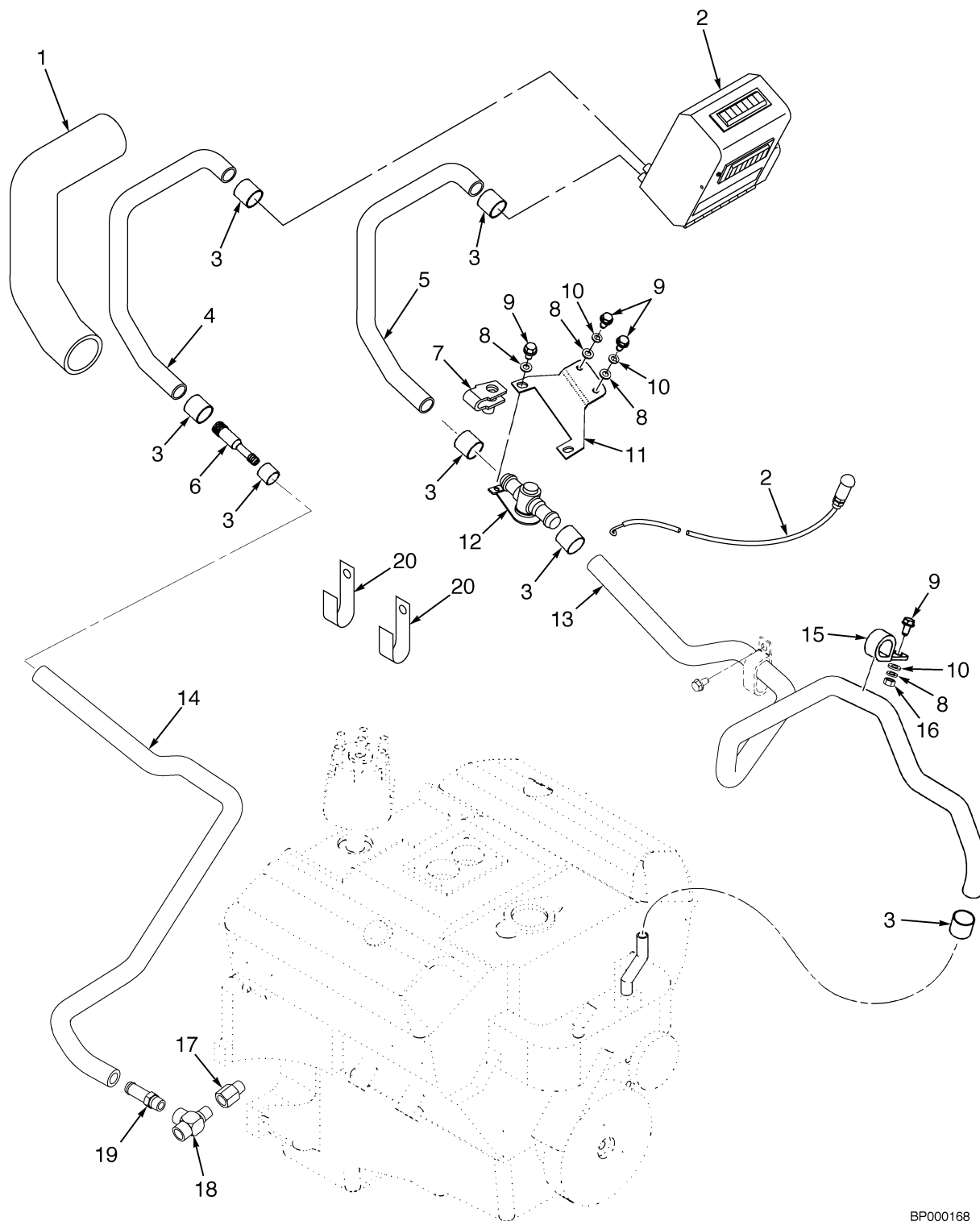
ITEM	PART NO.	DESCRIPTION	QTY
	2036541	Wire Harness	1
1	.....	Connector Assembly (Module Connection)	1
1	1497290	Housing	1
1	1497303	Retainer	1
1	1484596	Terminal (Pin)	3
1	1484597	Seal	3
1	1484594	Terminal (Pin)	1
1	1484595	Seal	1
2	.....	Connector Assembly (LH Work Light)	2
2	1324310	Terminal	2
3	1324309	Connector	2
3	.....	Connector Assembly (Strobe or Accessory)	1
3	1324310	Terminal	2
3	1324309	Connector	2
3	1324308	Electrical Fitting	1
3	1324307	Electrical Fitting	1
4	.....	Connector Assembly (RH Work Light)	2
4	1324310	Terminal	2
4	1324309	Connector	2

**CAB WIRE HARNESS (Figure 13-17)
HEADLIGHT AND HANDHELD LIGHT**

BP000143

ITEM	PART NO.	DESCRIPTION	QTY
	2036544	Wire Harness.....	1
1	1496789	Terminal.....	5
1	1496790	Housing (Module)	1
2	1324309	Connector	2
2	1324310	Terminal	2
3	1324309	Connector	2
3	1324310	Terminal (Headlight)	2
4	367540	Fitting (Female).....	3

HEATER INSTALLATION (Figure 13-18) GASOLINE

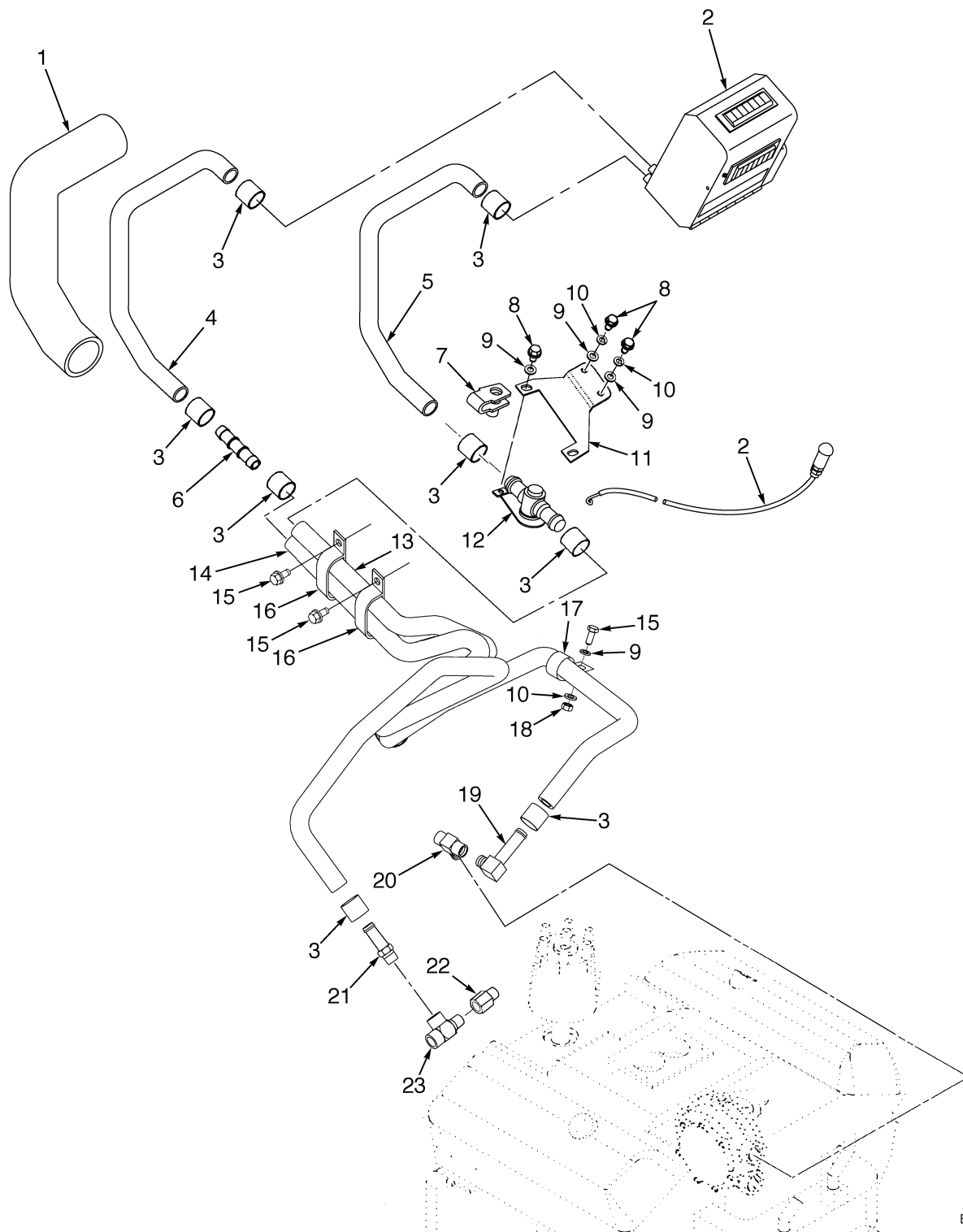


BP000168

**HEATER INSTALLATION
GASOLINE**

ITEM	PART NO.	DESCRIPTION	QTY
1	1358120	Sleeve	1
2	1527516	Heater	1
2	.....	Cable	1
3	127045	Clamp	8
4	1545786	Hose (Return)	1
5	1545785	Hose (Supply)	1
6	1399822	Coupling	1
7	1480237	Nut-Clip	2
8	320157	Washer	5
9	136681	Capscrew	5
10	292681	Lockwasher	3
11	1543530	Bracket	1
12	1300741	Valve (Heater)	1
13	2040752	Hose (Supply)	1
14	2050576	Hose (Return)	1
15	1310611	Clamp (Insulated)	1
16	239503	Nut	1
17	17642	Fitting	1
18	154452	Fitting	1
19	138710	Fitting	1
20	251994	Clamp (Insulated)	2

HEATER INSTALLATION (Figure 13-19) LPG

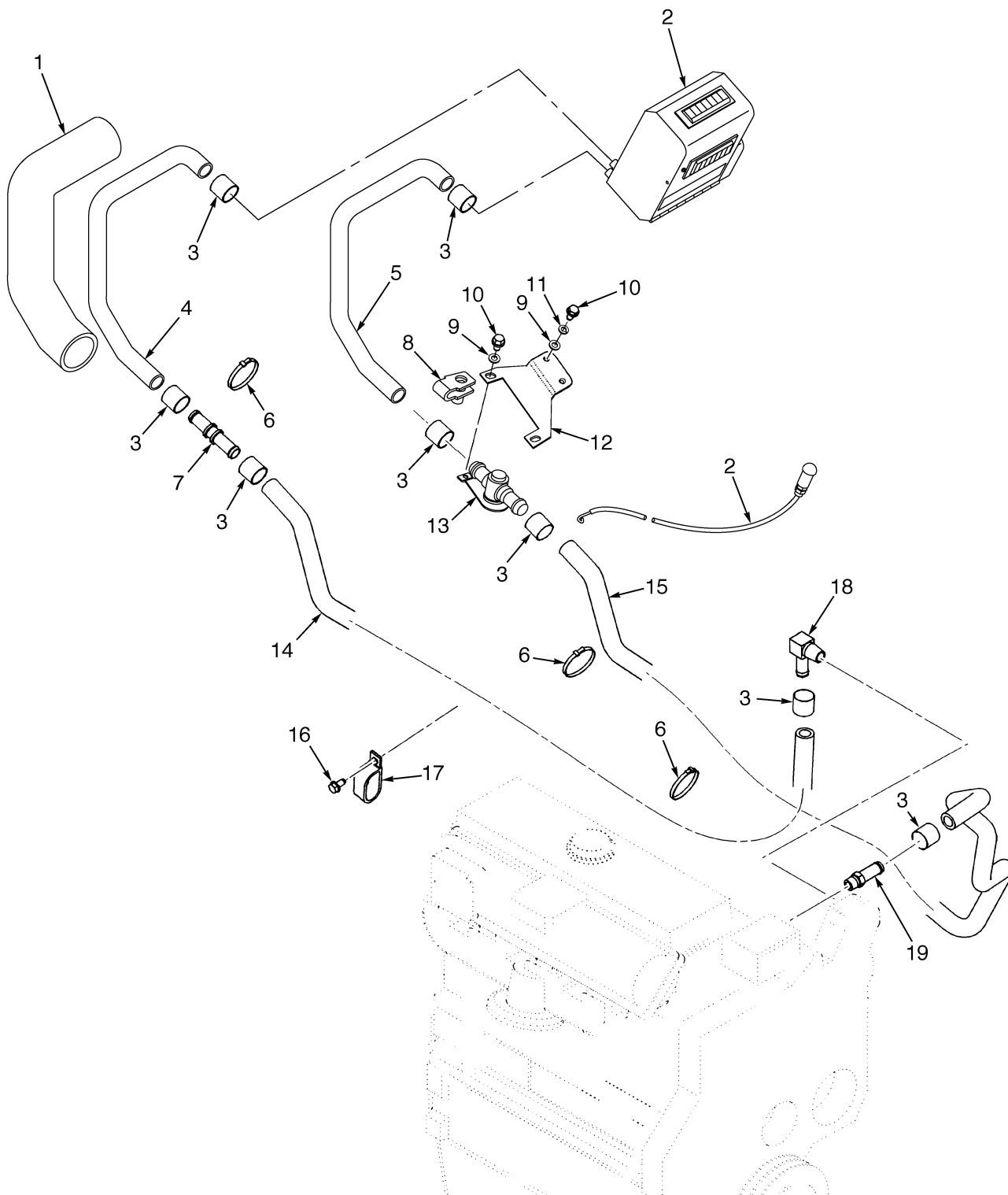


BP000169

HEATER INSTALLATION
LPG

ITEM	PART NO.	DESCRIPTION	QTY
1	1358120	Sleeve	1
2	1527516	Heater	1
2	.....	Cable	1
3	127045	Clamp	8
4	1545786	Hose (Return)	1
5	1545785	Hose (Supply)	1
6	1399822	Coupling	1
7	1480237	Nut-Clip	2
8	136681	Capscrew	5
9	320157	Washer	5
10	292681	Lockwasher	3
11	1543530	Bracket	1
12	1300741	Valve	1
13	2040752	Hose (Supply)	1
14	2050576	Hose (Return)	1
15	316678	Screw	4
16	251994	Clamp (Insulated)	3
17	1310611	Clamp (Insulated)	1
18	239503	Nut	1
19	125305	Fitting	1
20	17665	Fitting	1
21	17642	Fitting	1
22	154452	Fitting	1
23	138710	Fitting	1

HEATER INSTALLATION (Figure 13-20) DIESEL TIER II

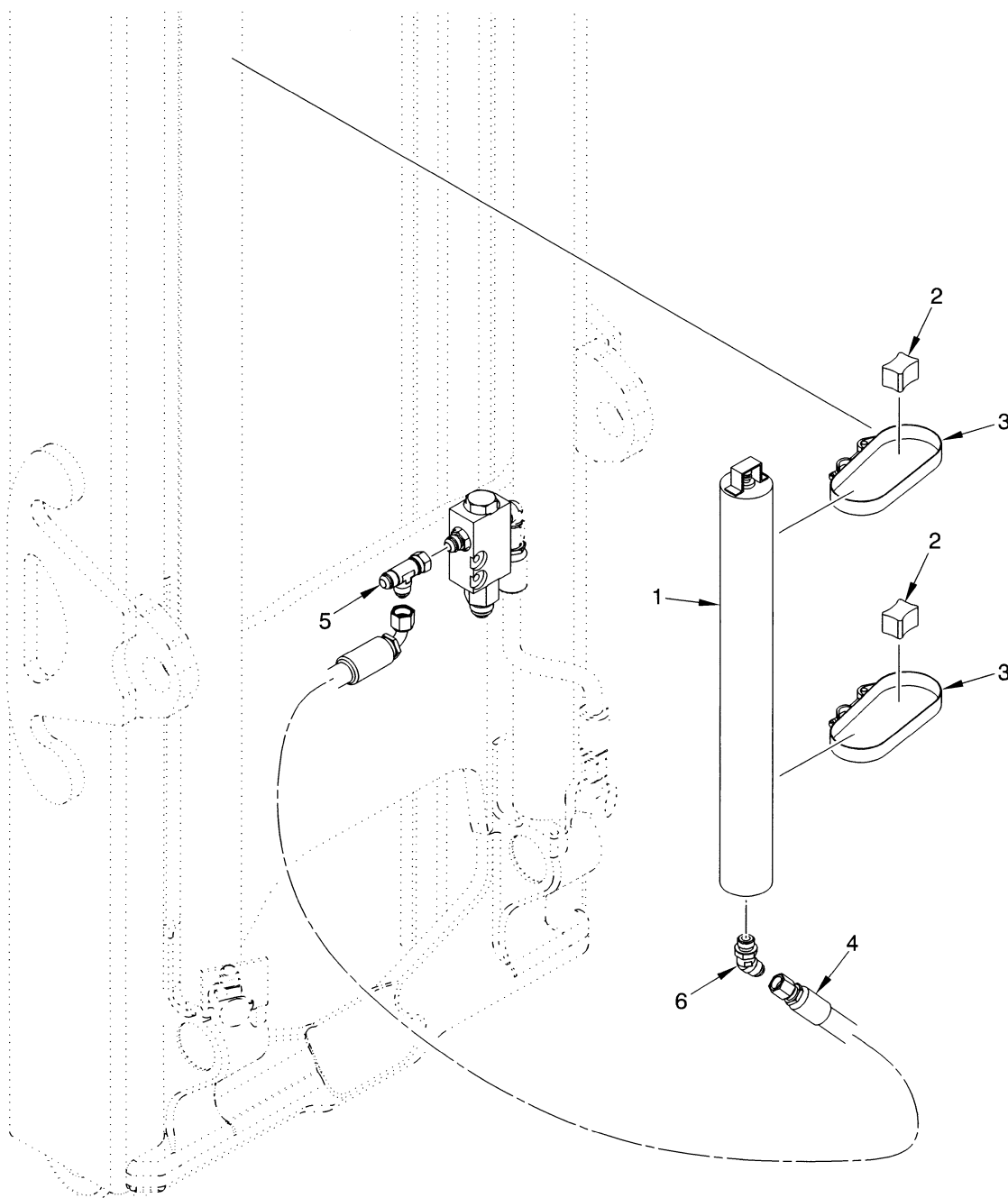


BP000167

**HEATER INSTALLATION
DIESEL TIER II**

ITEM	PART NO.	DESCRIPTION	QTY
1	1358120	Sleeve	1
2	1527516	Heater	1
2	.....	Cable	1
3	127045	Clamp	8
4	1545786	Hose (Return)	1
5	1545785	Hose (Supply)	1
6	2004005	Strap Clamp	3
7	1399822	Coupling	1
8	1480237	Nut-Clip	2
9	320157	Washer	4
10	136681	Capscrew	2
11	292681	Lockwasher	6
12	1543530	Bracket	1
13	1300741	Valve	1
14	2040752	Hose (Return)	1
15	2040751	Hose (Supply)	1
16	316678	Screw	4
17	251994	Clamp (Insulated)	4
18	16155	Fitting	1
19	16156	Fitting	1

ACCUMULATOR (Figure 13-21) MAST LOAD DAMPENING

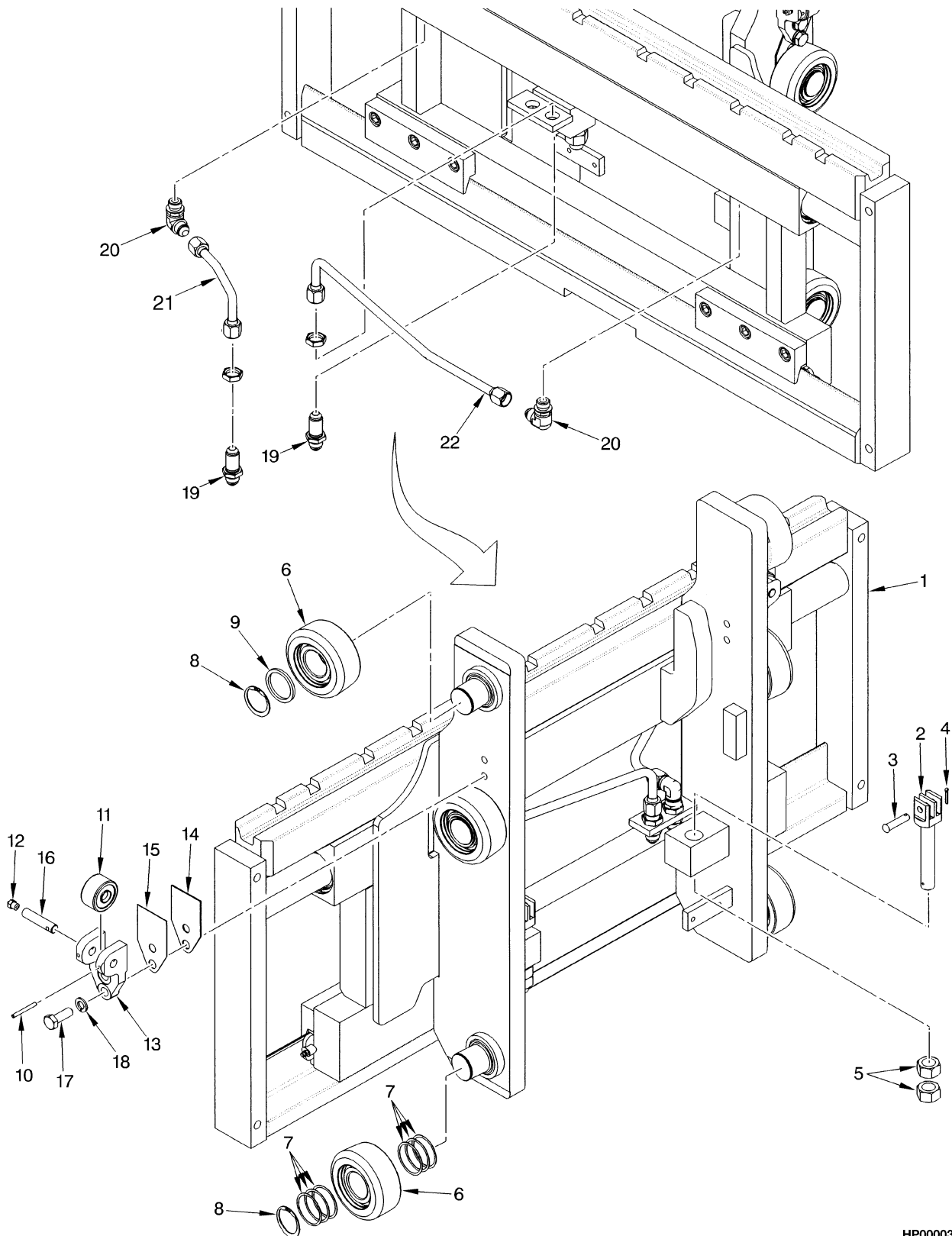


HP000025

ITEM	PART NO.	DESCRIPTION	QTY
1	1465897	Accumulator.....	1
2	1466337	Spacer	2
3	1466472	Clamp	2
4	1466415	Hose	1
5	16568	Fitting.....	1
5	16484	O-Ring	1
6	17062	Fitting.....	1

[illegible]

INTEGRAL SIDE-SHIFT ASSEMBLY (Figure 13-22) H70XM - H90XM (48 AND 60-INCH) TWO STAGE LIMITED FREE-LIFT

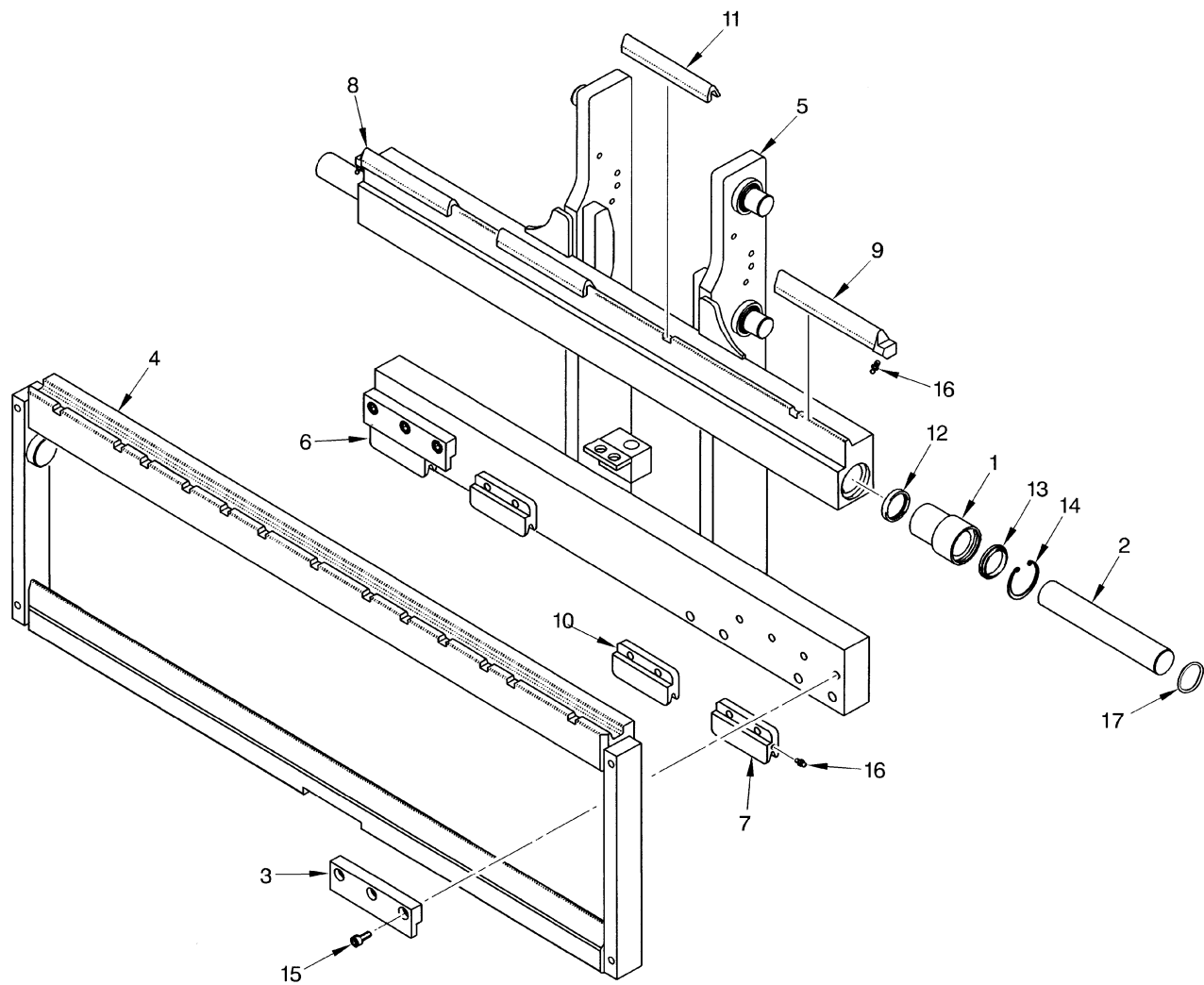


HP000031

INTEGRAL SIDE-SHIFT ASSEMBLY **H70XM - H90XM (48 AND 60-INCH)** **TWO STAGE LIMITED FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	2037951	Carriage Assembly (48 in.) (Group No. 8502066).....	1
	2037952	Carriage Assembly (60 in.) (Group No. 8502067).....	1
1	2037943	Carriage (48 in.)	1
1	2037944	Carriage (60 in.)	1
2	1387285	Chain Anchor.....	2
3	327591	Pin	2
4	15222	Cotter Pin	2
5	221717	Nut.....	4
6	1511883	Load Roller.....	6
7	126765	Shim (0.020 in.)	24
8	1465072	Snap Ring.....	6
9	1399224	Spacer.....	2
10	66333	Pin	2
11	1387993	Roller.....	2
12	16001	Lube Fitting.....	2
13	1465177	Bracket	2
14	192425	Shim (0.062 in.)	AR
15	192424	Shim (0.030 in.)	AR
16	1465028	Pin	2
17	292528	Capscrew	4
18	292683	Lockwasher	4
19	16448	Fitting.....	2
20	16559	Fitting.....	2
20	16484	O-Ring.....	1
21	1499104	Hose	1
22	1499103	Hose	1

INTEGRAL SIDE-SHIFT CARRIAGE (Figure 13-23) H70XM - H90XM (48 AND 60-INCH) TWO STAGE LIMITED FREE-LIFT

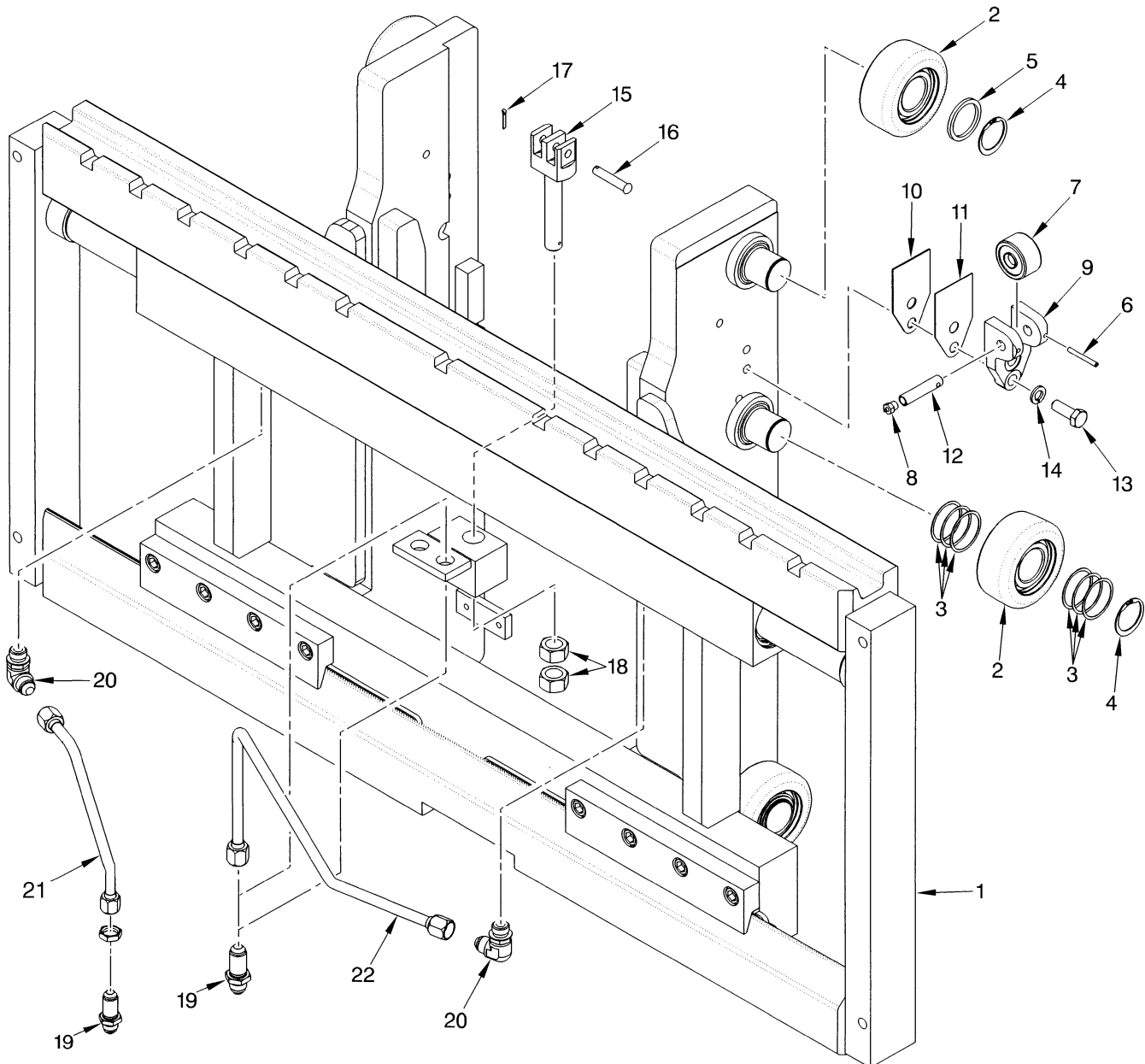


HP000036

INTEGRAL SIDE-SHIFT CARRIAGE **H70XM - H90XM (48 AND 60-INCH)** **TWO STAGE LIMITED FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	2037943	Carriage (48 in.).....	1
	2037944	Carriage (60 in.).....	1
1	1467151	Bushing	2
2	1467153	Rod.....	2
3	1467154	Hook.....	2
4	1532640	Apron (48 in.).....	1
4	1532643	Apron (60 in.).....	1
5	1467769	Frame (48 in.)	1
5	1467771	Frame (60 in.).....	1
6	1467145	Bearing Strip (RH Lower)	1
7	1467146	Bearing Strip (LH Lower).....	1
8	1467147	Bearing Strip (RH Upper)	1
9	1467148	Bearing Strip (LH Upper).....	1
10	1467201	Bearing Strip (Lower Center) (60 in.)	2
11	1467200	Bearing Strip (Upper Center) (60 in.)	2
12	1467149	Seal	2
13	1467150	Wiper Ring.....	2
14	1467632	Snap Ring.....	2
15	1467633	Screw	6
16	16041	Lube Fitting.....	8
17	39365	O-Ring	2

INTEGRAL SIDE-SHIFT ASSEMBLY (Figure 13-24) H100XM-H120XM (54 AND 60-INCH) TWO STAGE LIMITED FREE-LIFT

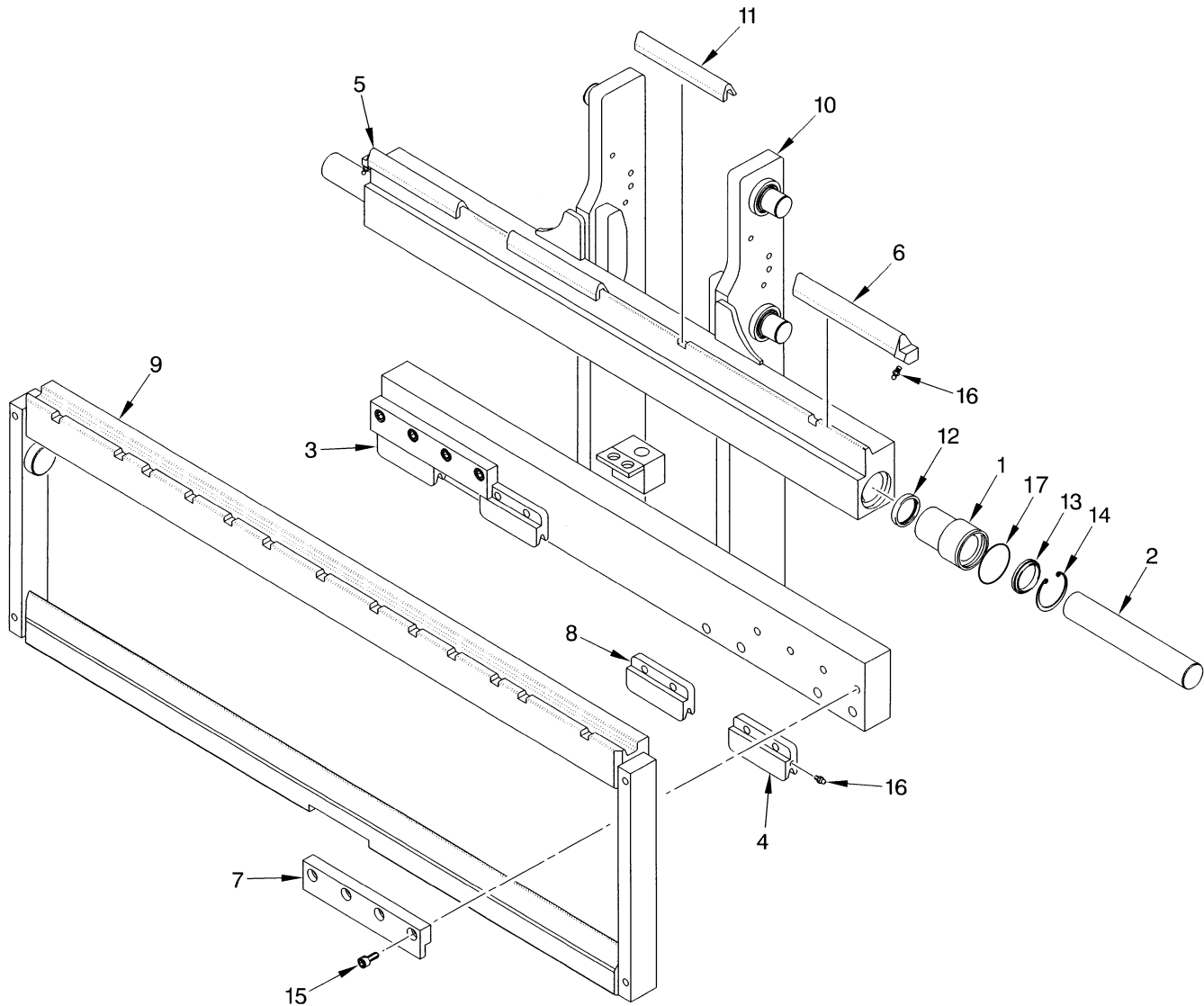


HP000032

INTEGRAL SIDE-SHIFT ASSEMBLY **H100XM-H120XM (54 AND 60-INCH)** **TWO STAGE LIMITED FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	2037953	Carriage Assembly (54 in.) (Group No. 8502068).....	1
	2037954	Carriage Assembly (60 in.) (Group No. 8502069).....	1
1	2037945	Carriage (54 in.)	1
1	2037946	Carriage (60 in.)	1
2	1511883	Load Roller.....	6
3	1399207	Shim (0.020 in.)	24
4	1465072	Snap Ring.....	6
5	1399224	Spacer.....	2
6	66333	Pin	2
7	1387993	Roller.....	2
8	16001	Lube Fitting.....	2
9	1465177	Bracket	2
10	192425	Shim (0.062 in.)	AR
11	192424	Shim (0.030 in.)	AR
12	1465028	Pin	2
13	292528	Capscrew	4
14	292683	Lockwasher	4
15	1387286	Chain Anchor.....	2
16	339932	Pin	2
17	15222	Cotter Pin	2
18	221717	Nut.....	4
19	16448	Fitting.....	2
20	16559	Fitting.....	2
20	16484	O-Ring.....	1
21	1499102	Hose	1
22	1499101	Hose	1

INTEGRAL SIDE-SHIFT CARRIAGE (Figure 13-25) H100XM - H120XM (54 AND 60-INCH) TWO STAGE LIMITED FREE-LIFT

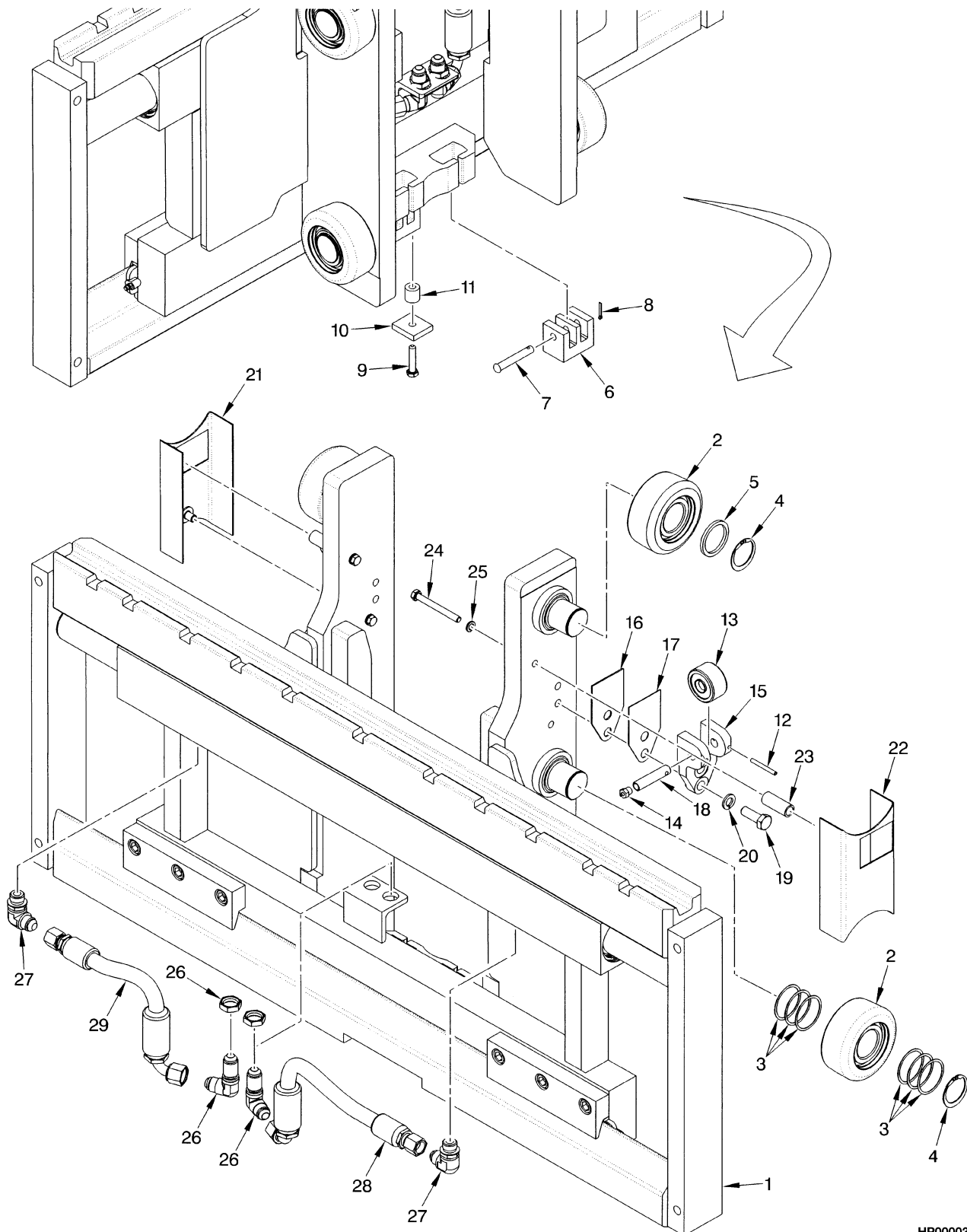


HP000037

INTEGRAL SIDE-SHIFT CARRIAGE **H100XM - H120XM (54 AND 60-INCH)** **TWO STAGE LIMITED FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	2037945	Carriage (54 in.).....	1
	2037946	Carriage (60 in.).....	1
1	1467204	Bushing	2
2	1467205	Rod.....	2
3	1467145	Bearing Strip (RH Lower)	1
4	1467146	Bearing Strip (LH Lower).....	1
5	1467147	Bearing Strip (RH Upper)	1
6	1467148	Bearing Strip (LH Upper).....	1
7	1467206	Hook.....	2
8	1467201	Bearing Strip (Lower Center).....	2
9	1532638	Apron (54 in.).....	1
9	1532639	Apron (60 in.).....	1
10	1467774	Frame (54 in.).....	1
10	1467776	Frame (60 in.).....	1
11	1467200	Bearing Strip (Upper Center)	2
12	1467202	Seal	2
13	1467203	Wiper Ring.....	2
14	1467634	Snap Ring.....	2
15	1467633	Screw	8
16	16041	Lube Fitting.....	8
17	39366	O-Ring	2

INTEGRAL SIDE-SHIFT ASSEMBLY (Figure 13-26) H70XM-90XM (48 AND 60 INCH) TWO AND THREE STAGE FULL FREE-LIFT



HP000033

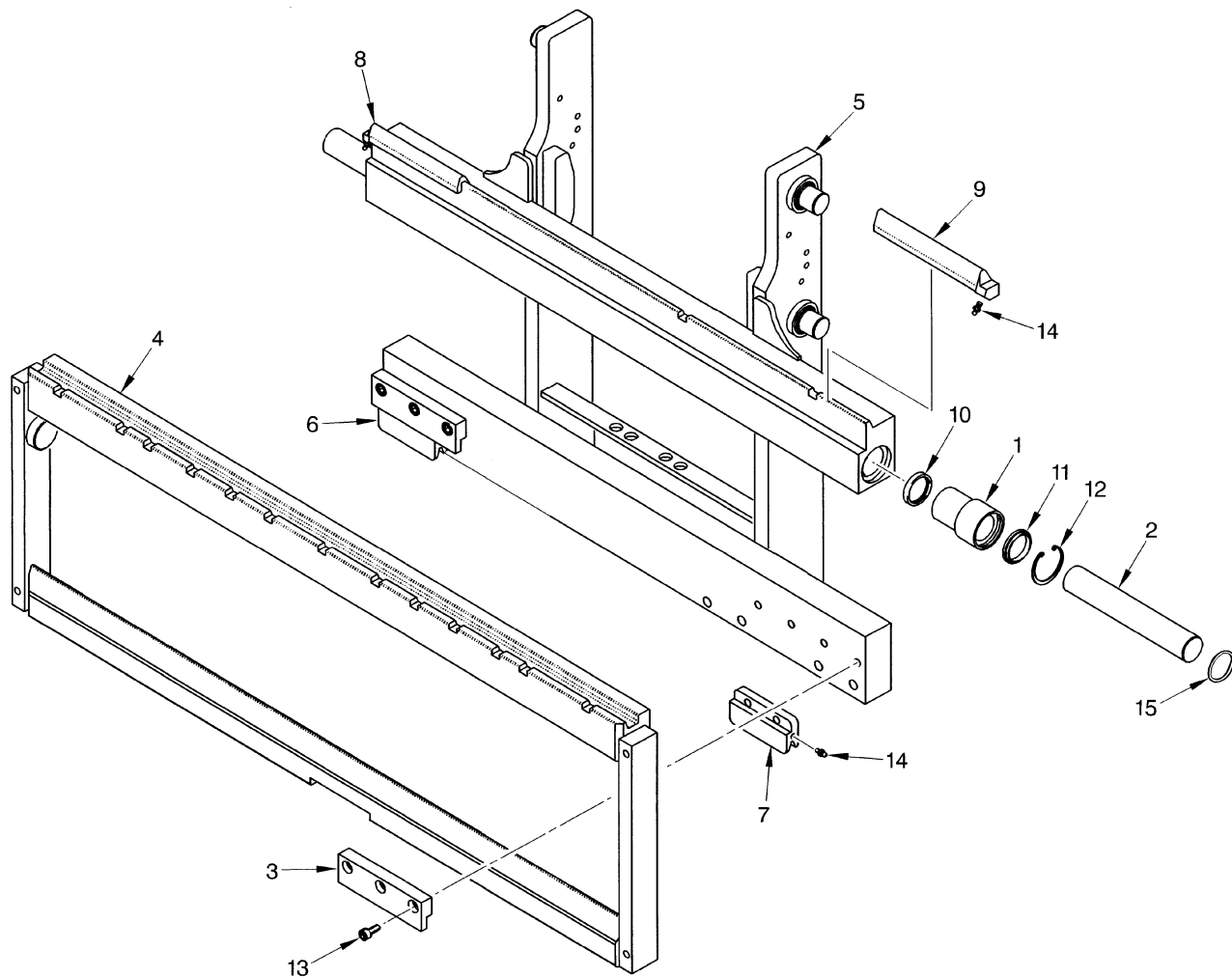
INTEGRAL SIDE-SHIFT ASSEMBLY **H70XM-90XM (48 AND 60 INCH)** **TWO AND THREE STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	b 2038594	Carriage Assembly (48 in.) (Group No. 8502090).....	1
	b 2038596	Carriage Assembly (60 in.) (Group No. 8502091).....	1
	a 2037955	Carriage Assembly (48 in.) (Group No. 8502070).....	1
	a 2037956	Carriage Assembly (60 in.) (Group No. 8502071).....	1
1	.....	Carriage Frame (☞ Figure 13-27, ☞ Figure 13-28)	1
2	1511883	Load Roller.....	6
3	126765	Shim (0.020 in.)	24
4	1465072	Snap Ring.....	6
5	1399224	Spacer.....	2
6	1387548	Chain Anchor.....	2
7	1387549	Pin	2
8	15222	Cotter Pin	2
9	292508	Capscrew	1
10	1400126	Plate	1
11	1400125	Spacer.....	1
12	66333	Pin	2
13	1387993	Roller.....	2
14	16001	Lube Fitting.....	2
15	1465177	Bracket	2
16	192425	Shim (0.062 in.)	AR
17	192424	Shim (0.030 in.)	AR
18	1465028	Pin	2
19	292528	Capscrew	4
20	292683	Lockwasher	4
21	319322	Guard (RH).....	1
22	319323	Guard (LH)	1
23	317292	Spacer.....	4
24	18518	Capscrew	4
25	15155	Lockwasher	4
26	16458	Fitting.....	2
27	16559	Fitting.....	2
27	16484	O-Ring.....	1
28	1499105	Hose	1
29	1499106	Hose	1

FOOTNOTES:

- a** Three Stage Full Free-Lift
b Two Stage Full Free-Lift

INTEGRAL SIDE-SHIFT CARRIAGE (Figure 13-27) H70XM-90XM (48 INCH) TWO AND THREE STAGE FULL FREE-LIFT



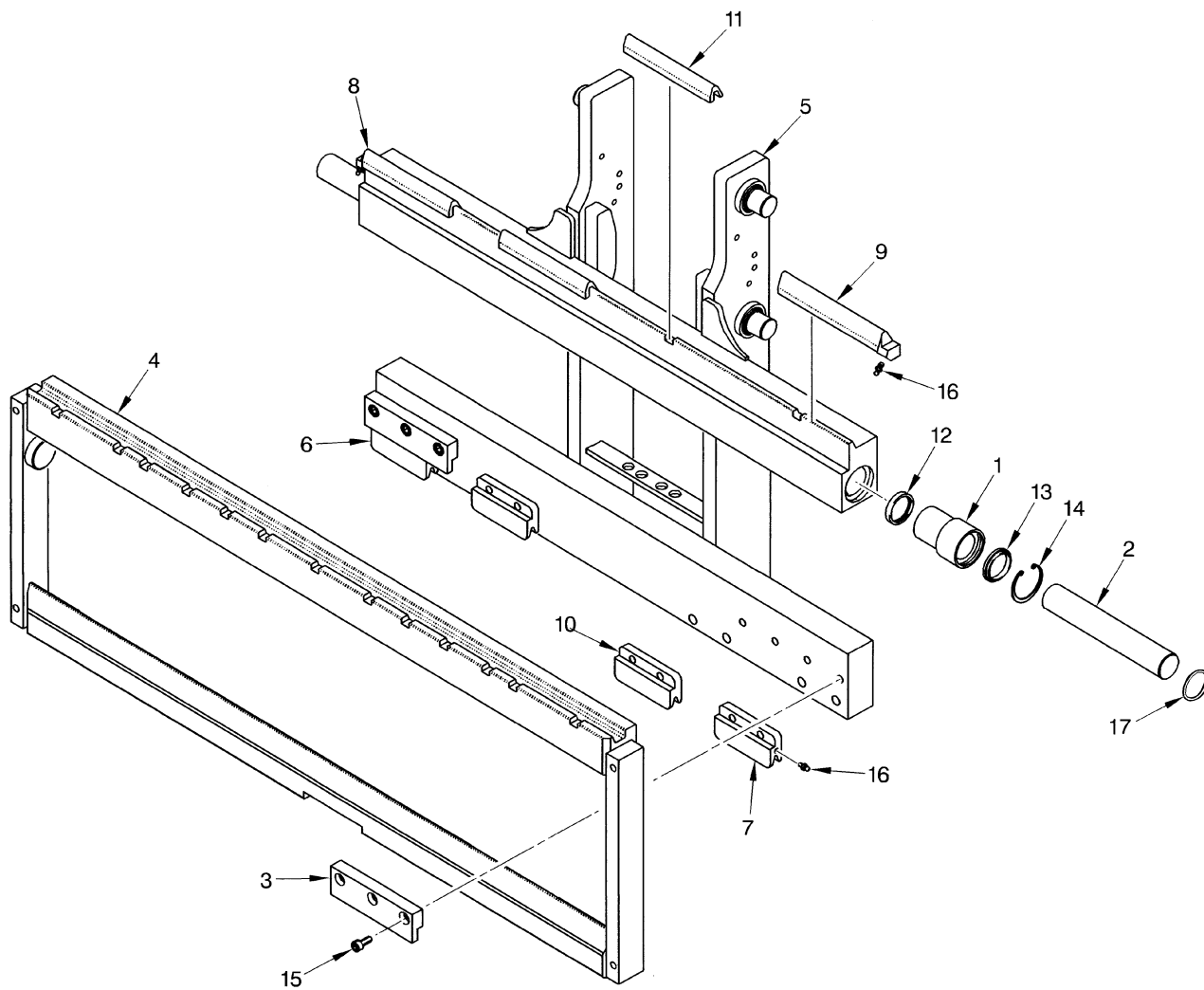
HP000038

INTEGRAL SIDE-SHIFT CARRIAGE
H70XM-90XM (48 INCH)
TWO AND THREE STAGE FULL FREE-LIFT

ITEM	PART NO.	DESCRIPTION	QTY
	b 2038595	Carriage (48 in.).....	1
	a 2037947	Carriage (48 in.).....	1
1	1467151	Bushing	2
2	1467153	Rod.....	2
3	1467154	Hook.....	2
4	1532640	Apron.....	1
5	b 1483336	Frame	1
5	a 1467770	Frame	1
6	1467145	Bearing Strip (RH Lower)	1
7	1467146	Bearing Strip (LH Lower).....	1
8	1467147	Bearing Strip (RH Upper)	1
9	1467148	Bearing Strip (LH Upper).....	1
10	1467149	Seal	2
11	1467150	Wiper Ring.....	2
12	1467632	Snap Ring.....	2
13	1467633	Screw	6
14	16041	Lube Fitting.....	8
15	39365	O-Ring	2

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

INTEGRAL SIDE-SHIFT CARRIAGE (Figure 13-28) H70XM-H90XM (60 INCH) TWO AND THREE STAGE FULL FREE-LIFT



HP000039

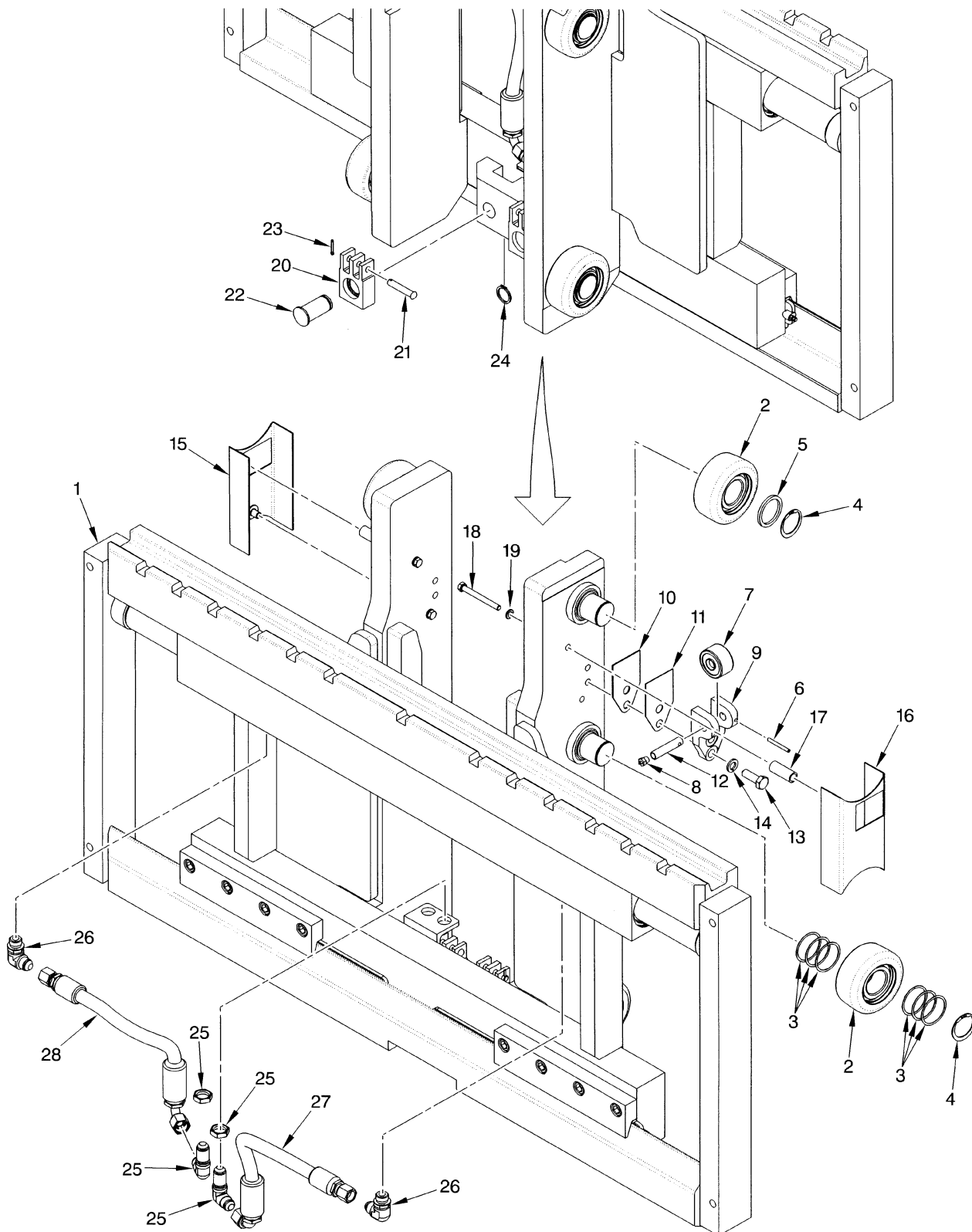
INTEGRAL SIDE-SHIFT CARRIAGE **H70XM-H90XM (60 INCH)** **TWO AND THREE STAGE FULL FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	b 2038599	Carriage (60 in.).....	1
	a 2037948	Carriage (60 in.).....	1
1	1467151	Bushing	2
2	1467153	Rod.....	2
3	1467154	Hook.....	2
4	1532643	Apron.....	1
5	b 1483335	Frame	1
5	a 1467772	Frame	1
6	1467145	Bearing Strip (RH Lower)	1
7	1467146	Bearing Strip (LH Lower).....	1
8	1467147	Bearing Strip (RH Upper)	1
9	1467148	Bearing Strip (LH Upper).....	1
10	1467201	Bearing Strip (Lower Center).....	2
11	1467200	Bearing Strip (Upper Center)	2
12	1467149	Seal	2
13	1467150	Wiper Ring.....	2
14	1467632	Snap Ring.....	2
15	1467633	Screw	6
16	16041	Lube Fitting.....	4
17	39365	O-Ring	2

FOOTNOTES:

- a** Three Stage Full Free-Lift
b Two Stage Full Free-Lift

INTEGRAL SIDE-SHIFT ASSEMBLY (Figure 13-29) H100XM-120XM (54 AND 60 INCH) TWO AND THREE STAGE FULL-FREE-LIFT



HP000034

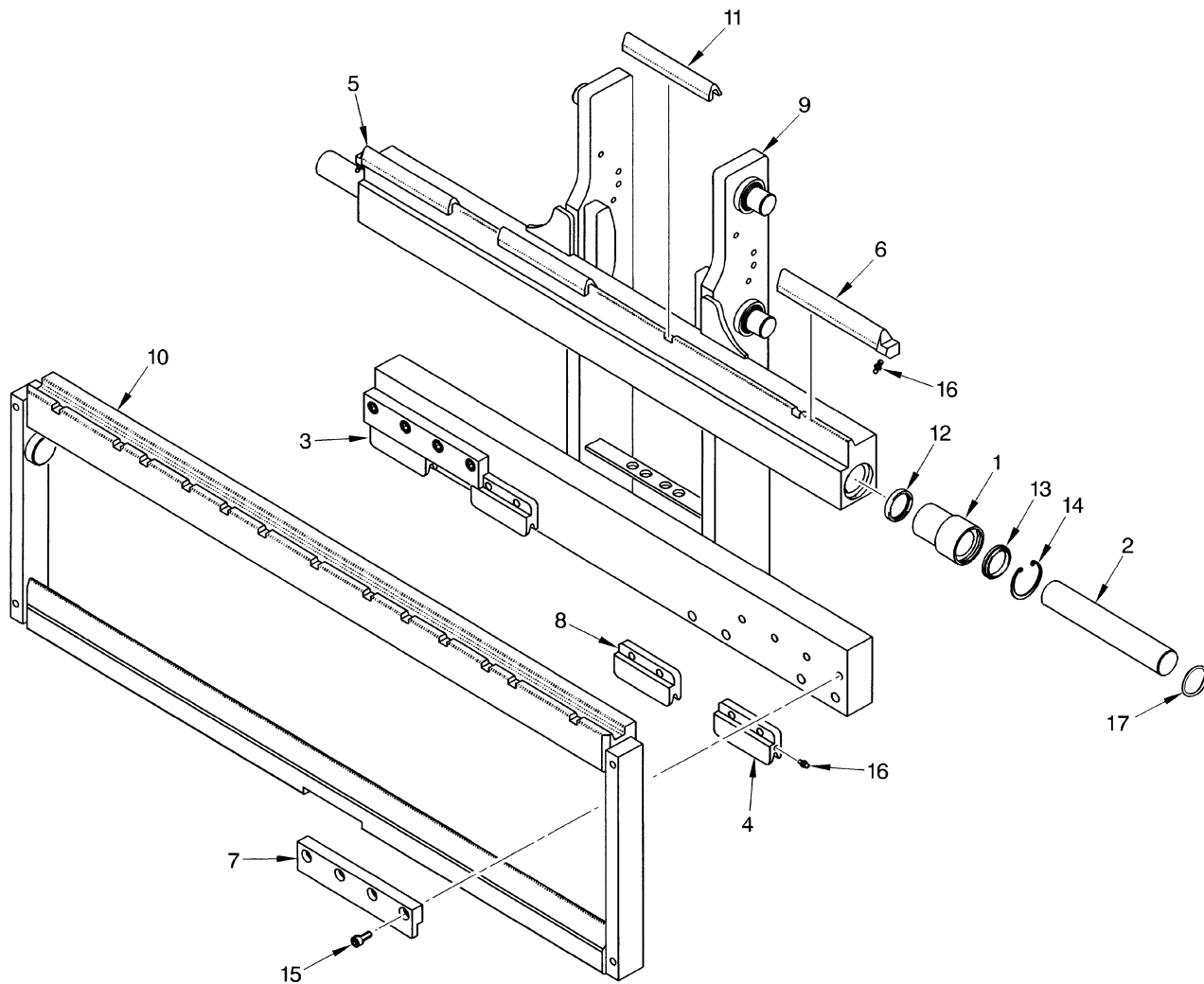
INTEGRAL SIDE-SHIFT ASSEMBLY **H100XM-120XM (54 AND 60 INCH)** **TWO AND THREE STAGE FULL-FREE-LIFT**

ITEM	PART NO.	DESCRIPTION	QTY
	b 2038597	Carriage Assembly (54 in.) (Group No. 8502092).....	1
	b 2038598	Carriage Assembly (60 in.) (Group No. 8502093).....	1
	a 2037957	Carriage Assembly (54 in.) (Group No. 8502072).....	1
	a 2037958	Carriage Assembly (60 in.) (Group No. 8502073).....	1
1	.....	Carriage Frame (☞ Figure 13-30)	1
2	1511883	Load Roller.....	6
3	126765	Shim (0.020 in.)	24
4	1465072	Snap Ring.....	6
5	1399224	Spacer.....	2
6	66333	Pin	2
7	1387993	Roller.....	2
8	16001	Lube Fitting.....	2
9	1465177	Bracket	2
10	192425	Shim (0.062 in.)	AR
11	192424	Shim (0.030 in.)	AR
12	1465028	Pin	2
13	292528	Capscrew	4
14	292683	Lockwasher	4
15	319322	Guard (RH).....	1
16	319323	Guard (LH)	1
17	317292	Spacer.....	4
18	18520	Capscrew	3
18	18518	Capscrew	1
19	15155	Lockwasher	4
20	1480392	Chain Anchor.....	2
21	339932	Pin	2
22	320327	Pin	2
23	15222	Cotter Pin	2
24	131358	Snap Ring.....	2
25	16458	Fitting.....	2
26	16559	Fitting.....	2
26	16484	O-Ring.....	1
27	1499107	Hose	1
28	1499108	Hose	1

FOOTNOTES:

- a** Three Stage Full Free-Lift
b Two Stage Full Free-Lift

INTEGRAL SIDE-SHIFT CARRIAGE (Figure 13-30) H100XM-H120XM (54 AND 60 INCH) TWO AND THREE STAGE FULL FREE-LIFT



HP000040

INTEGRAL SIDE-SHIFT CARRIAGE **H100XM-H120XM (54 AND 60 INCH)** **TWO AND THREE STAGE FULL FREE-LIFT**

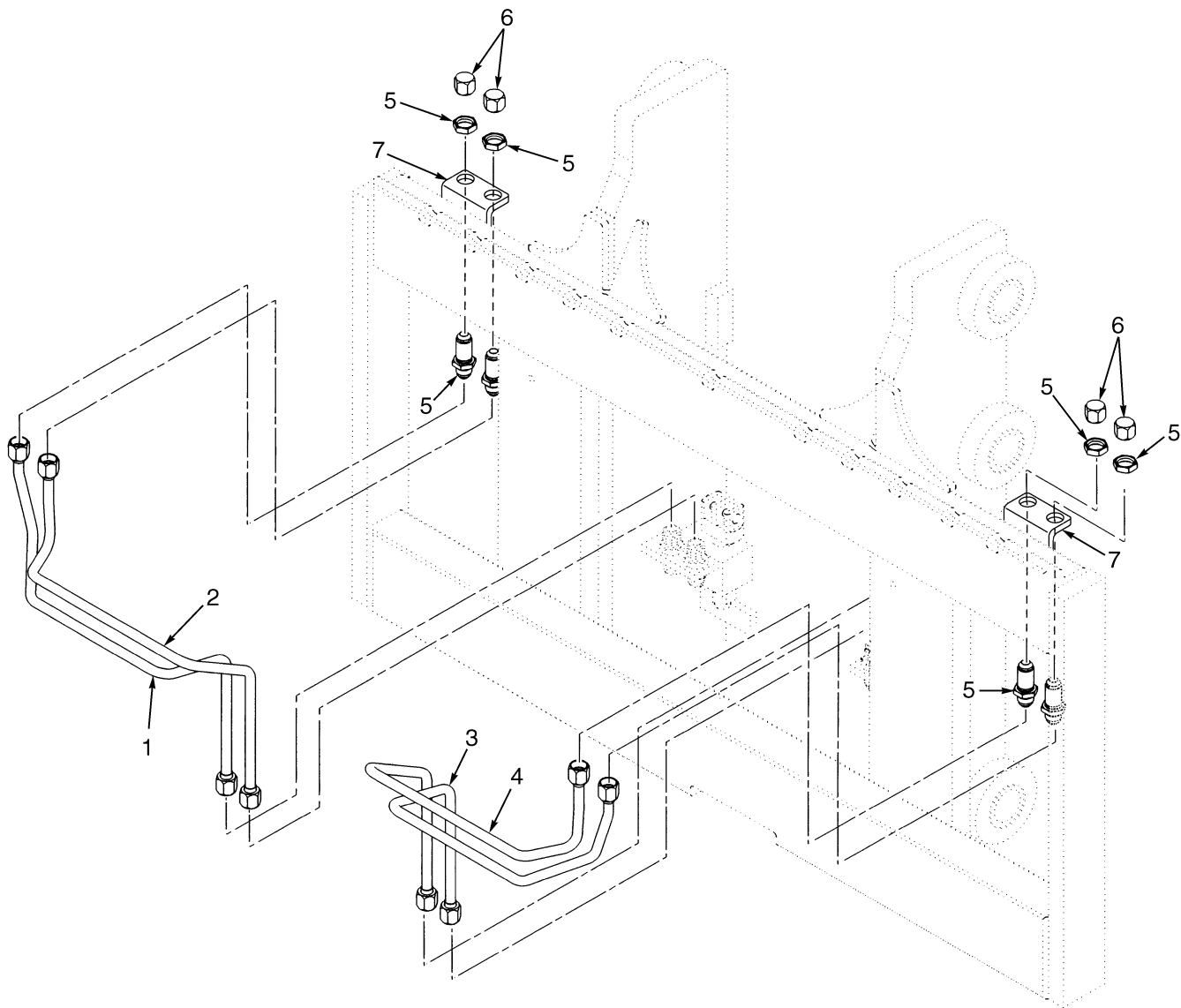
ITEM	PART NO.	DESCRIPTION	QTY
	b 2038600	Carriage (54 in.).....	1
	b 2038601	Carriage (60 in.).....	1
	a 2037949	Carriage (54 in.).....	1
	a 2037950	Carriage (60 in.).....	1
1	1467204	Bushing	2
2	1467205	Rod.....	2
3	1467145	Bearing Strip (RH Lower)	1
4	1467146	Bearing Strip (LH Lower).....	1
5	1467147	Bearing Strip (RH Upper)	1
6	1467148	Bearing Strip (LH Upper).....	1
7	1467206	Hook.....	2
8	1467201	Bearing Strip (Lower Center).....	2
9	b 1483331	Frame (60 in.)	1
9	b 1483333	Frame (54 in.)	1
9	a 1467773	Frame (54 in.)	1
9	a 1467775	Frame (60 in.)	1
10	1532638	Apron (54 in.).....	1
10	1532639	Apron (60 in.).....	1
11	1467200	Bearing Strip (Upper Center)	2
12	1467202	Seal	2
13	1467203	Wiper Ring.....	2
14	1467634	Snap Ring.....	2
15	1467633	Screw	8
16	16041	Lube Fitting.....	8
17	39366	O-Ring	2

FOOTNOTES:

a Three Stage Full Free-Lift

b Two Stage Full Free-Lift

AUXILARY TUBE EXTENSION KIT (Figure 13-31) TWO STAGE LIMITED FREE-LIFT

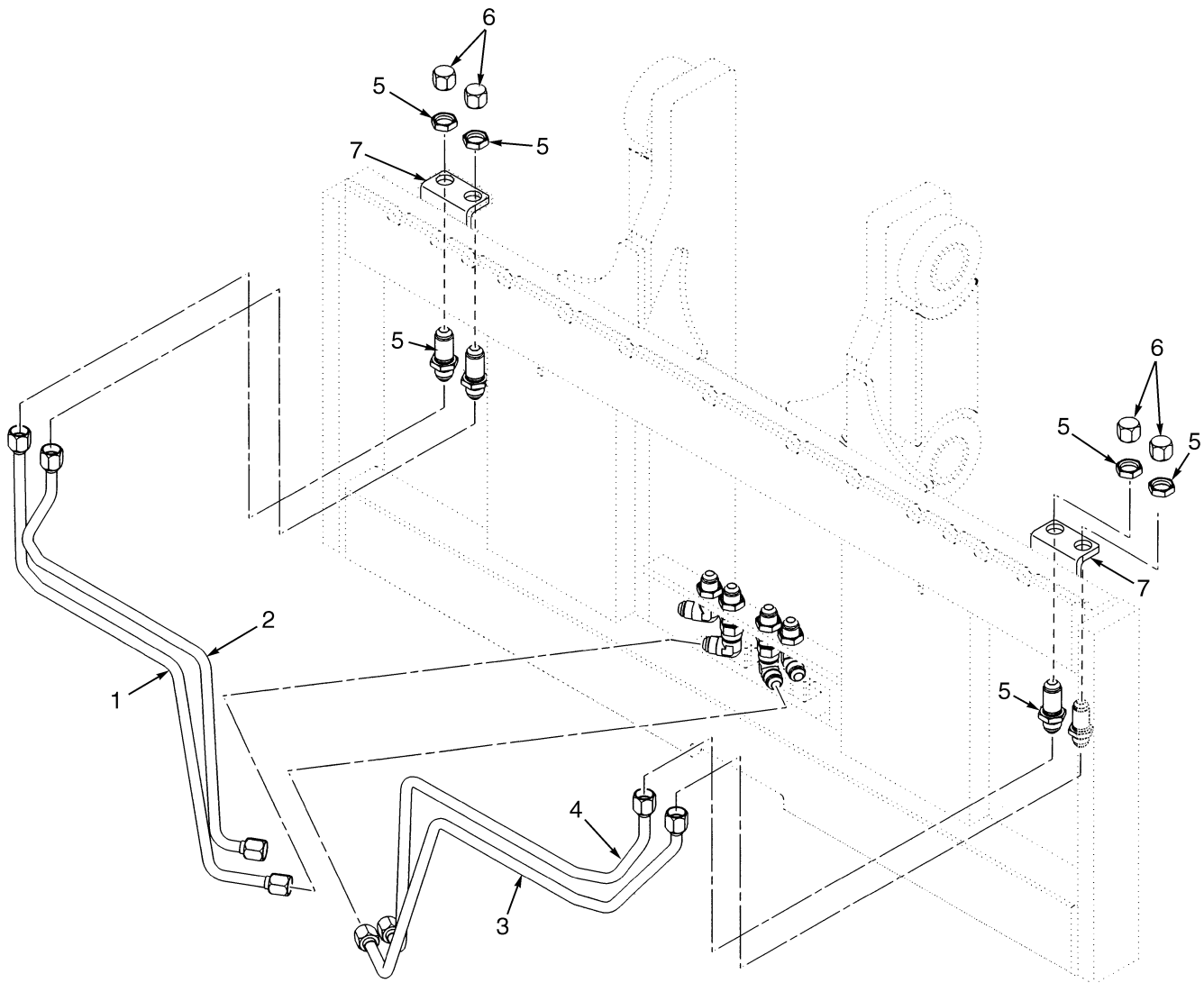


HP000022

**AUXILARY TUBE EXTENSION KIT
TWO STAGE LIMITED FREE-LIFT****KEY:****A: Three Function****B: Four Function**

ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1400128	Tube (Mast A749)	1	1
1	1400134	Tube (Mast A750)	1	1
2	1400129	Tube (Mast A749)	1	1
2	1400135	Tube (Mast A750)	1	1
3	1400130	Tube (Mast A749)	..	1
3	1400136	Tube (Mast A750)	..	1
4	1400131	Tube (Mast A749)	..	1
4	1400137	Tube (Mast A750)	..	1
5	16448	Fitting.....	2	4
6	16925	Fitting.....	2	4
7	1400127	Bracket.....	1	2
	1465157	Tube Kit (Mast A749) (Includes Items 1-2, 5-7)	1	..
	1465158	Tube Kit (Mast A749) (Includes Items 3-7)	..	1
	1465159	Tube Kit (Mast A750) (Includes Items 1-2, 5-7)	1	..
	1465160	Tube Kit (Mast A750) (Includes Items 3-7)	..	1

AUXILIARY TUBE EXTENSION KIT (Figure 13-32) TWO AND THREE STAGE FULL FREE-LIFT

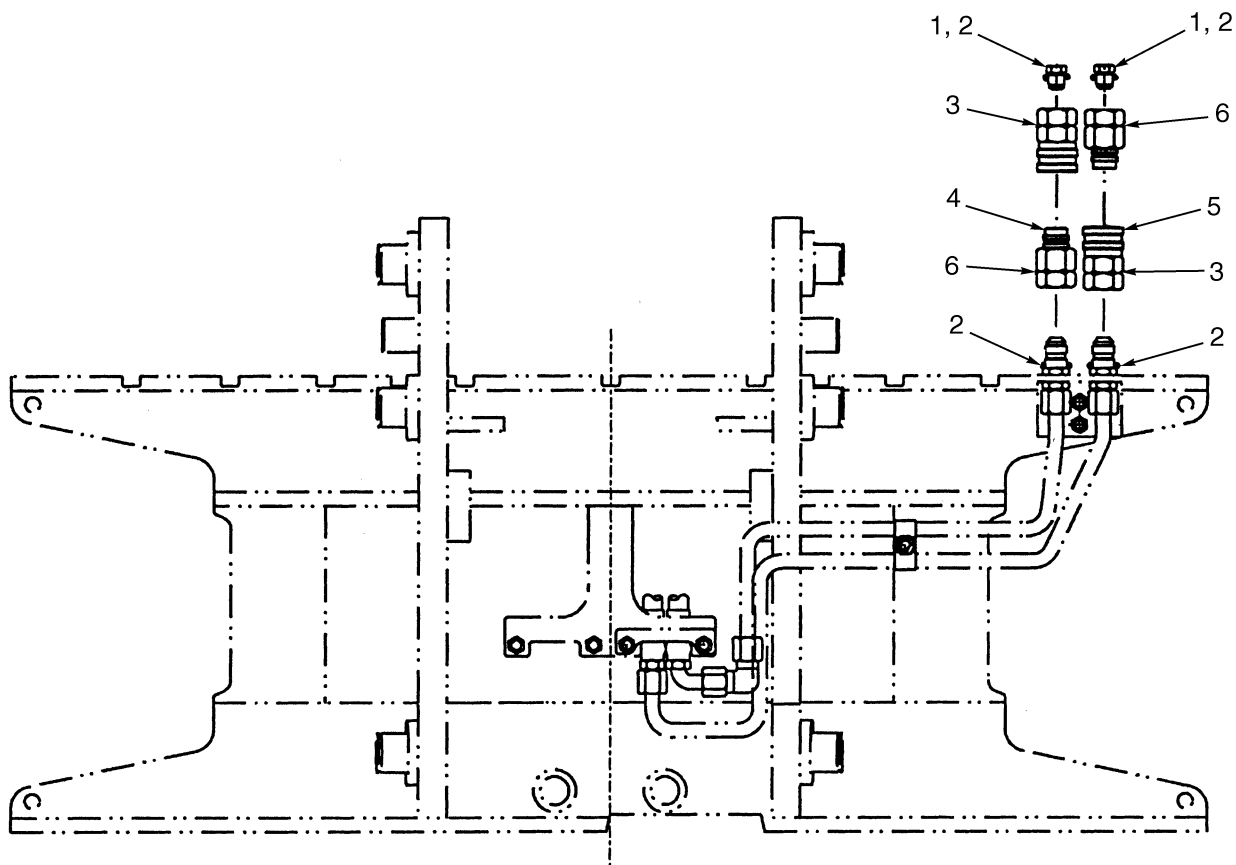


HP000023

**AUXILARY TUBE EXTENSION KIT
TWO AND THREE STAGE FULL FREE-LIFT****KEY:****A: Three Function****B: Four Function**

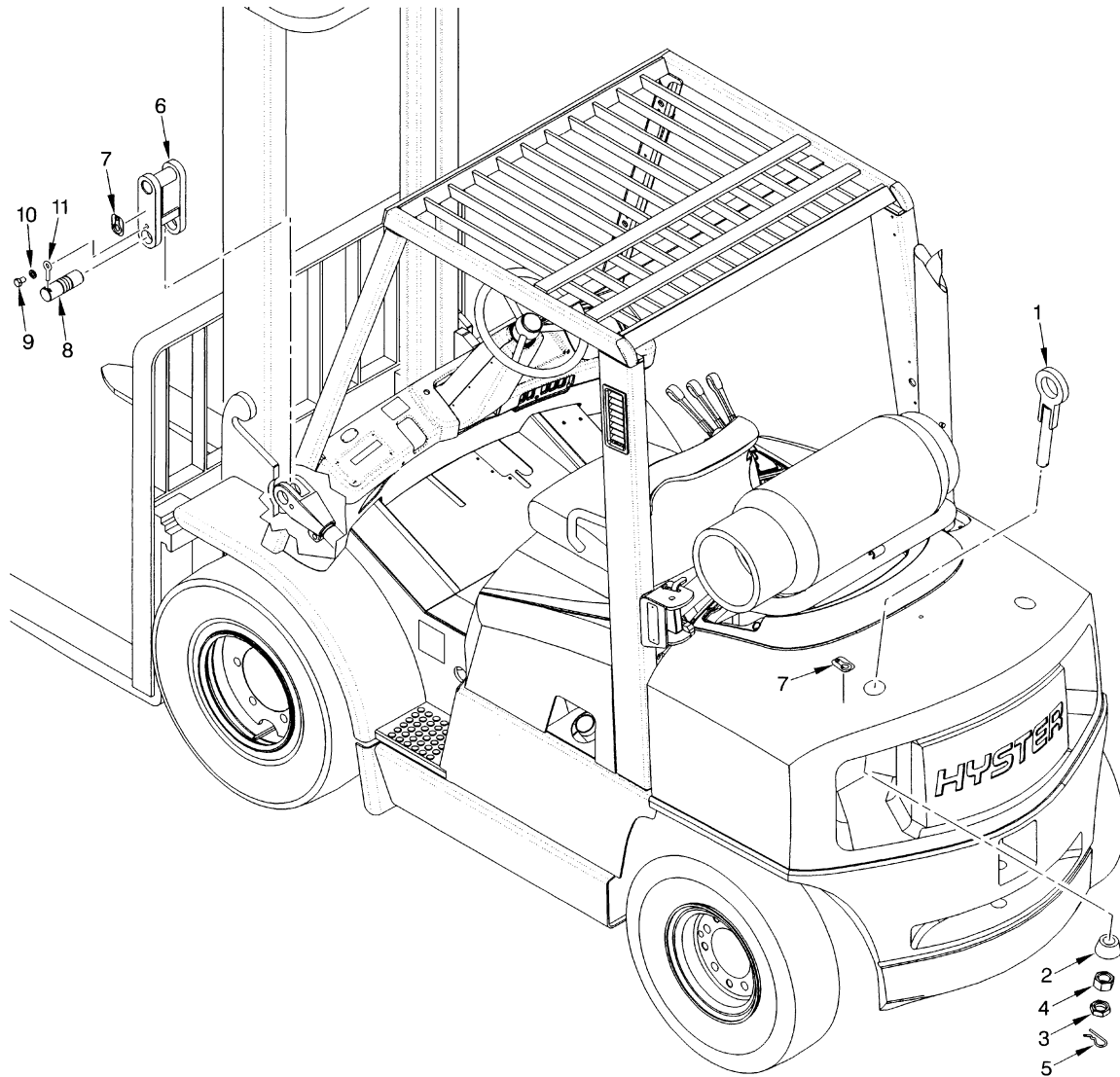
ITEM	PART NO.	DESCRIPTION	QTY	
			A	B
1	1400138	Tube (Mast A751)	1	..
1	1400144	Tube (Mast A752)	1	..
2	1400139	Tube (Mast A751)	1	..
2	1400145	Tube (Mast A752)	1	..
3	1400140	Tube (Mast A751)	..	1
3	1400146	Tube (Mast A752)	..	1
4	1400141	Tube (Mast A751)	..	1
4	1400147	Tube (Mast A752)	..	1
5	16448	Fitting.....	2	4
6	16925	Fitting.....	2	4
7	1400127	Bracket.....	1	2
	1465322	Tube Kit (Mast A751) (Includes Items 1-2, 5-7)	1	..
	1465323	Tube Kit (Mast A751) (Includes Items 3-7)	..	1
	1465324	Tube Kit (Mast A752) (Includes Items 1-2, 5-7)	1	..
	1465325	Tube Kit (Mast A752) (Includes Items 3-7)	..	1

QUICK DISCONNECT FITTINGS (Figure 13-33)



BP000139

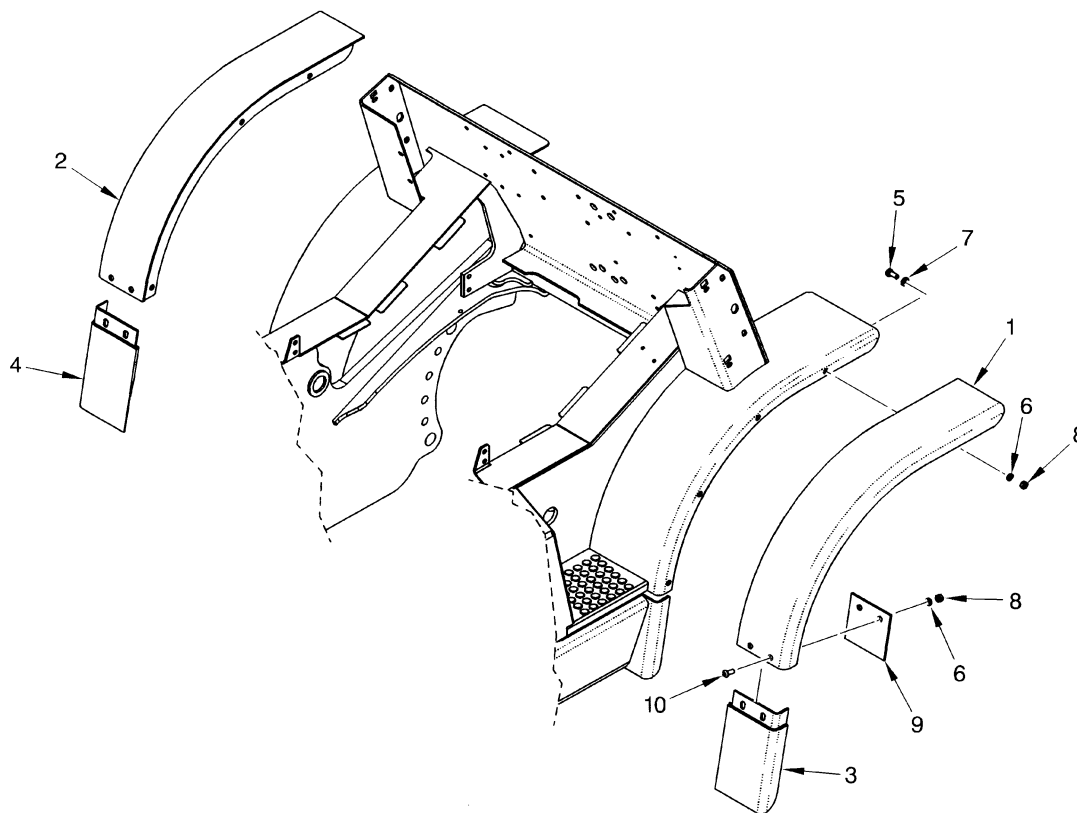
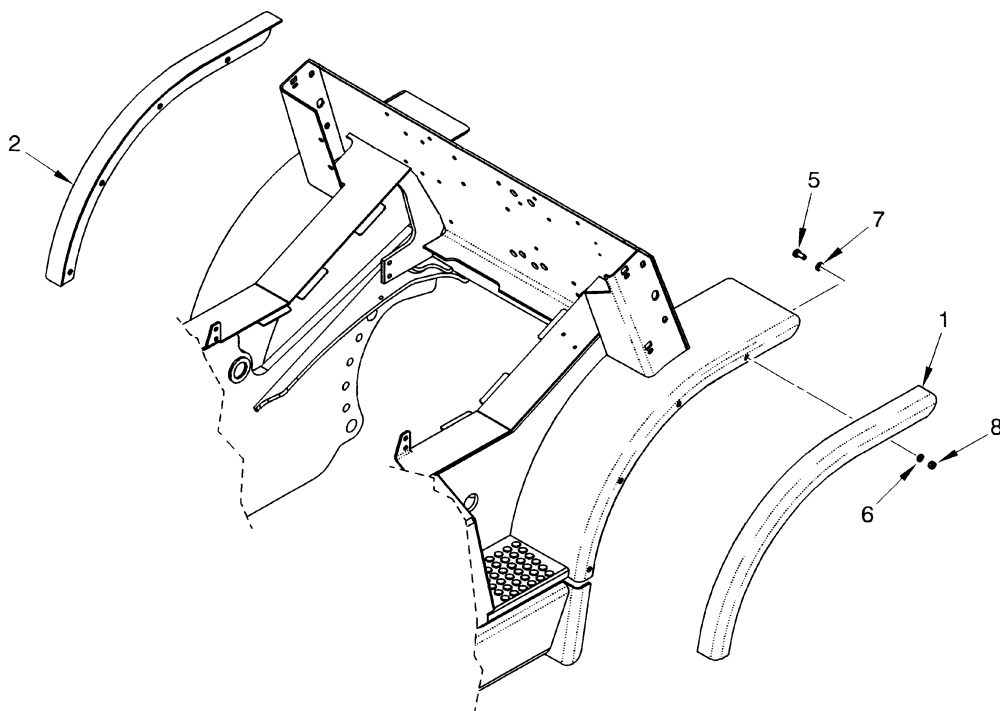
ITEM	PART NO.	DESCRIPTION	QTY
1	17321	Fitting.....	2
2	16484	O-Ring	4
3	1377953	Fitting.....	2
4	181266	Dust Plug	1
5	181298	Dust Cap.....	1
6	1377954	Fitting.....	1

LIFTING EYES (Figure 13-34)

BP000163

ITEM	PART NO.	DESCRIPTION	QTY
1	1476416	Eye Bolt (Rear)	2
2	1488915	Anchor (H70XM)	2
2	1474318	Anchor (H80-120XM)	2
3	296140	Nut	2
4	292661	Nut	2
5	15246	Cotter Pin	2
6	1474335	Shackle (Front)	2
7	316448	Label (Lifting Eye)	4
8	1532748	Tilt Pin (Extended)	2
9	16830	Capscrew	2
10	15158	Lockwasher	2
11	241079	Anchor	2

FENDER EXTENSIONS (Figure 13-35)

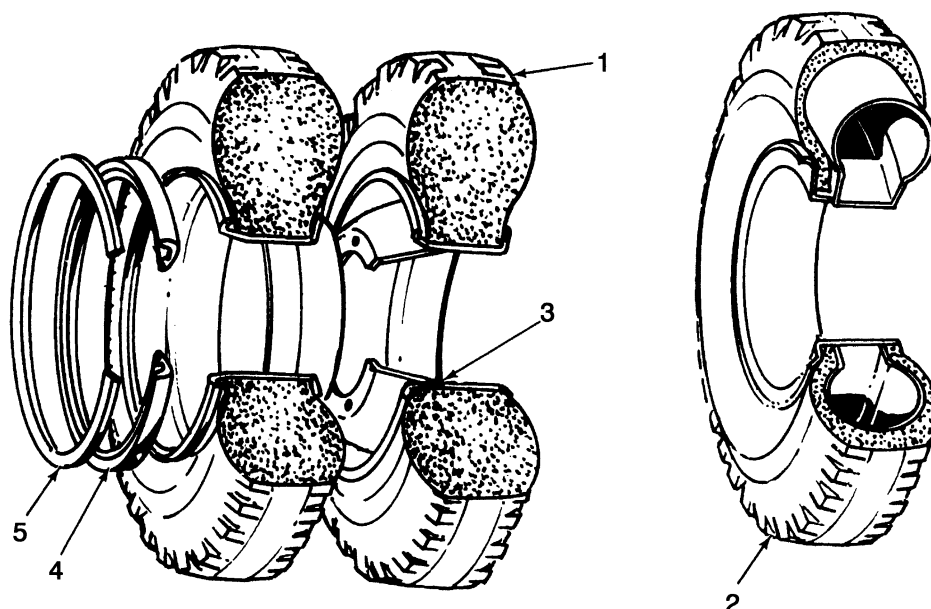


HP000018

FENDER EXTENSIONS**KEY:****A: 250 x 15 Single Wheel (H70-90XM)****B: 300 x 15 Single Wheel (H100-120XM)****C: 7.00 x 15 Dual Wheel (H70-90XM)****D: 8.25 x 15 Dual Wheel (H100-120XM)**

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	1396526	Fender Extension (RH)	1	..	..	..
1	1397500	Fender Extension (RH)	..	1	..	..
1	1396527	Fender Extension (RH)	..	..	1	..
1	1396528	Fender Extension (RH)	..	..	..	1
2	1396534	Fender Extension (LH).....	1	..	..	..
2	1397502	Fender Extension (LH).....	..	1	..	..
2	1396535	Fender Extension (LH).....	..	..	1	..
2	1396536	Fender Extension (LH).....	..	..	..	1
3	1398127	Mud Flap (RH)	..	..	1	..
3	1398128	Mud Flap (RH)	..	..	..	1
4	1398132	Mud Flap (LH).....	..	..	..	1
4	1398131	Mud Flap (LH).....	..	..	1	..
5	287854	Capscrew.....	1	1	1	1
6	292682	Lockwasher.....	8	8	..	..
6	292682	Lockwasher.....	..	..	12	12
7	296420	Washer	8	8	8	8
8	136692	Nut	8	8	..	..
8	136692	Nut	..	..	12	12
9	1399432	Plate	..	..	2	2
10	1384659	Capscrew.....	..	..	4	4

DRIVE TIRES AND WHEELS (Figure 13-36) DUAL



HP000016

KEY:

- A: 7.00 x 15 Solid (H70-90XM)
B: 7.00 x 15 Pneumatic (H70-90XM)
C: 8.25 x 15 Solid (H100-120XM)
D: 8.25 x 15 - 12 Ply (H100-120XM)

ITEM	PART NO.	DESCRIPTION	QTY			
			A	B	C	D
1	174214	Tire (Standard Hardness)	4	..	..	..
1	237050	Tire (Standard Hardness)	..	4	..	..
2	137134	Tire Assembly	..	4	..	..
2	137135	Tire (With Flap).....	..	1	..	..
2	137136	Tube.....	..	1	..	..
2	130616	Tire Assembly	..	..	..	4
2	129846	Tire (With Flap).....	..	..	..	1
2	25722	Tube.....	..	..	..	1
3	2035024	Wheel Assembly	4	4	..	..
3	2035025	Wheel Assembly	..	..	4	4
4	322637	Side Ring	1	1	1	1
5	322638	Lock Ring	1	1	1	1
6	1394500	Plate (Valve Stem) (Not Illustrated)	4	4	4	4
7	1393344	Adapter (Not Illustrated)	2	2	2	2

SECTION 14
NUMERICAL INDEX

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
142	3-47	17	15156	1-5	19		12-24	8	16481	5-17	33
	8-3	35		2-11	6	15885	11-15	11	16482	5-8	58
11276	7-16	5		2-47	14		12-28	11		5-8	58
12815	2-5	9		2-49	14	15962	2-23	2		5-17	11
12821	4-15	45		2-59	24		2-31	16		5-17	24
	4-20	55		2-69	3		2-60	50		5-17	34
12891	10-5	7		4-11	23	15963	9-3	25	16483	5-8	51
	12-8	13		4-19	28	16001	9-21	12		5-8	52
12928	2-9	23		7-5	23		10-15	16		5-8	53
13957	7-9	6	15157	2-11	22		11-19	26		5-17	7
14349	4-3	32	15158	9-21	6		12-31	26		7-3	22
	8-3	43		13-67	10		13-45	12		9-7	12
14358	3-21	17	15172	8-3	30		13-49	8		9-7	39
	3-37	19	15175	1-11	19		13-53	14		9-9	11
14372	3-29	19		1-13	35		13-59	8		9-9	41
14440	3-21	4		2-49	17	16015	9-21	13		10-7	3
14500	5-18	2	15200	3-47	9	16041	13-47	16		12-16	3
14560	9-7	34		9-11	31		13-51	16	16484	5-3	25
	9-9	36		9-13	31		13-55	14		5-3	36
14591	9-15	1	15201	3-45	15		13-57	16		5-17	19
14592	5-17	11	15212	1-9	7		13-61	16		5-19	5
14603	10-8	22		3-39	10	16100	3-7	6		7-3	1
	11-4	23		3-41	14		3-9	3		9-7	15
14773	3-7	5		3-43	1	16124	8-3	39		9-9	14
15001	1-7	17		3-47	20	16134	3-21	6		10-7	19
	3-43	10		7-5	15		3-37	22		10-8	20
	3-47	27	15222	10-8	34	16143	3-17	28		11-3	22
15025	8-3	16		10-15	10	16155	13-41	18		11-4	24
15026	2-25	5		11-7	6	16156	13-41	19		12-16	18
15032	5-17	21		11-19	12	16167	2-47	9		12-16	20
15049	4-16	63		12-4	12		2-49	19		13-42	5
	4-20	73		12-12	8	16177	3-7	4		13-45	20
15052	4-9	3		12-20	21		3-9	2		13-49	20
15056	4-19	30		12-31	12	16186	8-3	40		13-53	27
15086	1-5	18		13-45	4	16187	8-4	52		13-59	26
15127	1-5	23		13-49	17	16190	3-13	4		13-66	2
	2-5	24		13-53	8	16193	2-43	7	16485	5-4	38
15134	1-5	17		13-59	23	16271	3-29	20	16486	5-8	49
	2-11	9	15224	7-16	5	16394	2-59	45		5-8	50
	4-11	24		12-12	10	16448	10-17	14		9-3	2
	4-19	27	15226	7-9	29		11-22	16		9-3	11
	7-5	24	15246	13-67	5		12-35	24		9-7	11
	8-3	46	15290	6-3	28		13-45	19		9-9	10
15152	4-9	2	15304	2-21	10		13-49	19		10-8	22
15154	1-5	22		2-23	7		13-63	5		11-4	23
	2-59	33	15310	9-3	9		13-65	5		12-16	19
15155	2-59	44	15314	9-4	46	16458	9-7	40	16487	9-3	31
	4-11	30	15315	6-3	29		9-9	42		9-3	36
	11-19	19	15483	2-21	23		11-22	15		9-3	37
	12-31	19	15860	7-15	6		12-35	23	16540	5-8	52
	13-53	25	15879	10-12	9		13-53	26	16541	7-3	1
	13-59	19		10-12	9		13-59	25		10-7	19

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
	11-4	24		12-35	25	39366	13-51	17		2-49	20
	12-16	20	17039	9-9	16		13-61	17	76382	9-3	42
16543	12-16	19	17062	7-3	20	39373	2-11	21	78456	9-3	43
16556	5-17	33		13-42	6	39678	7-9	13	79377	7-3	16
16558	5-8	53	17314	3-13	2	39742	9-4	45	79981	7-13	6
	7-3	22	17321	13-66	1	40667	12-20	18	86510	4-3	6
	9-7	39	17343	3-13	3	41208	5-3	13		4-16	61
	9-9	41	17642	13-37	17	41308	5-3	1		4-20	71
16559	9-7	5		13-39	21	42213	3-29	21	88195	9-3	37
	9-9	4	17650	4-3	35	44542	7-9	21	97999	3-21	23
	10-8	20	17665	13-39	20	45656	7-16	5	99576	2-21	3
	11-3	22	17706	9-3	33	45736	7-16	2	99610	2-27	6
	12-16	18	17728	3-21	5	45737	7-16	2		2-33	14
	13-45	20	17753	5-8	58	46629	9-22	13	99728	2-33	27
	13-49	20	18462	1-5	21		11-15	11	101809	3-21	12
	13-53	27	18496	4-19	32		12-28	11	102898	9-4	46
	13-59	26	18498	4-11	25	51455	2-43	8		9-7	4
16561	9-7	11	18500	4-11	2	53065	2-9	32		9-9	3
	9-9	10		4-19	23		2-9	32	102919	3-17	27
16568	13-42	5	18515	1-11	9	53162	3-39	14	104264	10-3	8
16569	5-3	38		4-11	31		3-41	22		11-3	19
16597	4-11	21		4-19	31		3-45	23		12-4	8
	4-11	21	18518	11-19	18		3-49	14	104506	10-3	9
16598	2-11	16		12-31	18		7-7	16		11-3	20
	2-60	49		13-53	24	55434	9-17	8		12-4	9
16663	2-49	16		13-59	18	57568	3-49	9		12-8	10
16743	4-16	62	18520	13-59	18	57664	10-12	9	110178	10-7	3
	4-20	72	18535	2-47	13		12-24	8		12-16	3
16745	9-7	12		2-49	13	58902	11-22	10	112470	9-3	36
	9-9	11	18543	4-19	29		12-35	12	112989	10-8	30
16794	2-21	4	18546	2-11	5	58903	7-9	8		11-22	25
16815	7-5	22		4-11	27	58929	11-7	8		12-16	31
16830	9-21	5	18727	1-11	8		12-20	13	113341	2-49	26
	13-67	9	18762	1-5	16	58936	5-17	30	114312	3-39	4
16836	2-59	43	18824	7-3	25	63116	2-13	12		3-41	5
16863	3-21	21	18942	6-3	3		2-13	12		3-45	21
16865	3-49	14	21420	5-7	15		2-13	12		3-49	17
	7-7	17	25722	13-70	2		2-15	6	115696	3-3	2
16882	9-7	16	30019	7-9	27		2-15	17		3-17	6
	9-9	15	30097	6-3	18		2-15	24		3-17	18
16897	8-3	17	30098	6-3	12	63899	3-29	1		10-8	30
16923	5-3	37	30147	7-9	26	66333	10-15	17		11-22	19
	5-8	59	30162	5-7	32		11-19	25		12-16	31
	5-17	25	30289	7-9	22		12-31	25	118748	3-13	18
16925	7-3	21	34811	2-6	58		13-45	10	119236	9-3	38
	13-63	6	35116	2-6	58		13-49	6	124297	8-17	5
	13-65	6		2-9	29		13-53	12	124359	4-15	29
16982	5-17	6	39348	11-16	15		13-59	6		4-19	38
	11-4	35		12-28	15	66885	5-21	1	124668	2-9	20
	11-4	35	39365	13-47	17	68968	2-13	6	125305	13-39	19
16983	5-3	29		13-55	15	69029	7-9	30	126764	12-20	18
16989	11-22	17		13-57	17	69392	2-47	10	126765	10-3	5

NUMERICAL INDEX (Continued)

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	11-7	24		3-29	7		9-13	12		12-4	6
	11-19	15		4-4	46		11-22	23	161296	2-27	4
	12-7	5		4-15	40	136985	1-7	36	161297	2-27	5
	12-31	15		4-19	50		2-9	33	161889	7-16	12
	13-45	7		9-3	17		2-19	15	161890	7-16	11
	13-53	3		11-22	21		7-5	2	162155	5-3	36
	13-59	3		13-27	11		8-3	4	162836	3-39	12
127045	9-3	39		13-37	9		9-11	18		3-41	16
	13-37	3		13-39	8		9-13	18	164488	3-29	23
	13-39	3		13-41	10	137134	13-70	2		4-15	27
	13-41	3	136687	1-23	5	137135	13-70	2		4-19	36
127518	12-16	28		2-5	30	137136	13-70	2		13-13	7
128408	2-49	25		3-3	14	137852	4-3	27	164632	11-15	10
	4-15	47		3-3	14	138710	13-37	19		12-28	10
	4-20	57		3-17	17		13-39	23	164639	7-9	24
128409	9-7	27		4-9	13	138880	3-29	2	166112	2-47	18
	9-9	29		4-11	9	139743	2-11	1	166285	4-3	12
129341	10-7	17		4-11	35		4-11	35	166659	11-12	7
129846	13-70	2		4-15	7	142247	10-7	6	166818	1-27	22
129887	4-37	1		4-19	7		11-3	10	166857	8-3	48
129888	4-27	1		7-7	10		12-16	6	167218	3-45	14
129894	4-27	2		8-3	31	142500	9-3	2	168718	2-47	6
130616	13-70	2	136692	2-6	47	143004	5-7	21		2-49	22
130619	7-16	2		2-9	43	145639	1-11	18		3-7	11
130845	2-55	42		3-39	7		1-13	36		3-9	9
131358	11-19	24		3-41	10	147294	3-33	6		3-13	15
	12-31	24		3-45	6		3-35	20		3-29	25
	13-59	24		3-47	4	148271	3-21	19	170658	1-27	8
131715	12-8	8		7-5	4	148605	4-27	3		1-27	31
131716	12-7	7		8-3	6	148610	4-27	4	173941	3-7	3
132860	3-37	16		9-11	19		4-37	8	174209	7-16	1
	10-5	11		9-13	19	148962	3-35	22	174214	13-70	1
132861	5-21	8		13-69	8		3-37	13	176167	9-19	10
	7-3	19		13-69	8		5-8	68	176169	9-19	14
	9-3	13	136704	5-8	45	152404	12-4	14	176173	9-19	18
	9-7	8		7-3	12	153069	4-11	29	176451	3-9	22
	9-9	7		8-3	21		4-12	38		3-29	10
133469	2-59	32		9-7	21	153715	7-9	37	176640	1-9	14
133696	2-59	37		9-9	21	153716	7-9	36		9-11	28
134436	5-17	34	136749	1-7	28	153717	7-9	34		9-13	28
134810	4-37	3		1-19	5	154065	1-27	28	177521	13-23	4
	4-37	9		2-5	35	154066	1-27	28	177947	2-6	59
134812	4-27	19		2-5	35	154067	1-27	28	177948	2-6	59
	4-37	2		2-9	15	154452	13-37	18		2-9	28
	4-37	7		3-21	8		13-39	22	178119	4-3	7
135657	7-9	17		4-3	22	157065	4-11	37		4-3	19
135658	7-9	17		4-11	18	159977	2-53	14		4-15	9
135685	3-49	2		7-5	9	161272	10-3	7		4-19	9
136516	8-17	6		8-17	2		11-3	18	178899	2-5	1
136681	2-11	13		9-7	29		12-4	7	179414	1-27	27

NUMERICAL INDEX (Continued)

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179417	1-27	27		11-19	27	216877	9-21	8		3-21	11
179420	1-27	27		12-31	27	220273	7-7	14		3-47	24
179423	1-27	27		13-45	14	220434	3-49	16		4-3	3
181045	4-37	3		13-49	10	220498	13-13	11		4-11	28
	4-37	9		13-53	16		13-27	9		7-3	18
181046	4-27	5		13-59	10	220589	2-69	2		8-3	10
	4-37	2	192429	9-21	3	220932	3-49	3		9-3	22
	4-37	7	193239	9-7	14	221522	2-11	8		9-7	13
181266	13-66	4		9-9	13	221546	2-11	23		9-9	12
181298	13-66	5	193554	9-22	9	221717	10-8	31		9-11	11
181766	5-17	20	193656	3-7	15		10-15	11		9-13	11
181941	9-17	5	194607	12-4	14		11-7	7		11-4	30
182342	10-7	17	195856	2-19	9		12-4	13		12-16	13
	12-4	14		5-11	11		12-12	9		13-37	16
182891	9-3	4	196297	3-33	3		12-20	22		13-39	18
183635	9-3	18		3-35	19		13-45	5	241079	9-21	7
186420	2-19	16	197064	3-39	15		13-49	18		13-67	11
	5-3	18		3-45	24	221733	1-11	4	243976	12-4	14
187388	11-15	7		7-7	15	221771	1-31	3	246001	12-8	16
	12-28	7	197066	2-5	14		5-8	56	246108	4-16	56
188210	5-3	29	197067	13-13	12	222029	1-11	17		4-20	66
188631	4-15	30		13-27	2	222038	2-5	25		5-18	2
	4-19	39	197068	3-3	20	222380	5-8	58	246869	3-21	18
189338	2-11	3		3-17	22		5-17	24		3-29	26
	4-11	34	198518	11-12	6	222443	5-8	51		9-3	24
190382	4-27	38	198675	3-29	24		5-17	7	248128	4-23	6
	13-5	8	199917	9-22	7	222444	5-8	50	248462	9-21	2
190383	4-9	10		9-22	12	222473	9-3	34	251979	5-11	12
	4-11	36	200659	5-17	6	222480	3-9	20		6-3	31
	4-27	35	200972	5-7	20	222523	4-27	34	251994	13-37	20
	4-37	1	201782	5-8	49	224248	2-33	26		13-39	16
	4-37	8	201787	5-21	9	225465	3-9	12		13-41	17
190784	9-17	7	201808	2-47	8	225673	4-23	5	252293	13-6	2
190785	9-17	6	201829	10-12	8	226576	4-23	8	256160	3-11	4
190787	9-3	29		12-24	6	226578	4-23	10	257291	2-9	20
190887	11-12	11	203071	7-13	2	226582	4-23	15	257913	11-15	5
	11-16	16	204223	4-11	3	226583	4-23	16		12-28	5
	12-28	16		4-15	17	226584	4-23	17	258590	9-7	31
191030	10-7	17		4-19	18	227178	4-15	35		9-9	33
191072	10-7	17		4-27	36		4-19	44	260045	13-19	12
	12-4	14	204787	3-31	8	229875	2-33	10	261379	2-11	2
191076	10-7	17	206150	9-7	15	230315	7-9	28		4-11	33
191081	12-4	14		9-9	14	230421	7-9	38	263794	2-65	11
191085	12-4	14	209417	4-16	65	230882	13-13	13	263795	2-65	10
192424	10-15	19		4-20	75		13-27	3	263828	2-55	16
	11-19	28	210183	7-13	3	234038	5-7	2	263842	2-53	10
	12-31	28	212786	5-21	5	235691	5-3	25	264134	1-5	20
	13-45	15	215211	12-8	9		5-17	19		9-11	38
	13-49	11	215301	10-11	4		5-19	5		9-13	39
	13-53	17		12-24	4	237050	13-70	1		11-12	14

NUMERICAL INDEX (Continued)

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	5-22	6		10-7	14	292526	3-33	8		3-45	3
	6-3	23		11-3	16		3-35	16		4-11	10
266465	2-29	2		12-16	14		4-11	20		4-15	6
266728	7-9	18		12-35	9		4-15	52		4-19	6
266733	7-9	19	288638	7-16	6		4-20	62		5-8	54
268573	2-65	3		7-16	7		11-7	18		7-7	19
270015	7-13	5	289867	2-19	13		12-20	14		8-3	45
270077	10-12	8		5-11	4	292527	2-9	1		9-11	26
	12-24	6	291974	3-3	24		9-21	11		9-13	26
270330	9-22	14		3-17	6	292528	2-19	18	292681	1-7	27
271479	5-7	31	292500	2-5	29		10-15	7		1-17	11
273775	7-5	34		3-39	20		11-19	7		1-19	4
274334	3-9	19		3-45	2		12-31	7		2-5	34
	3-9	23		7-7	18		13-45	17		2-5	34
275493	4-27	33		13-5	3		13-49	13		2-5	34
278085	2-9	32		13-23	19		13-53	19		2-9	16
	2-9	32	292501	3-3	28		13-59	13		2-11	12
278326	5-8	57		3-17	29	292529	5-22	1		3-3	6
280472	2-19	13		9-11	29	292531	9-21	10		3-17	20
	7-9	39		9-13	29		12-20	4		3-21	9
280878	12-4	14	292503	10-17	11	292535	2-6	43		3-29	8
	12-20	23		12-35	18		2-9	40		3-37	20
281700	8-3	42	292504	8-3	29	292538	10-17	9		3-39	18
283149	4-16	55	292505	3-41	1	292563	11-7	12		3-45	31
	4-20	65	292508	3-37	21	292564	12-20	11		3-47	23
287805	6-3	37		5-8	46	292573	2-45	7		4-3	28
287816	3-3	21		11-19	22	292575	2-17	6		4-11	30
	3-17	23		13-53	9	292589	6-3	32		4-15	10
287837	2-5	37	292509	2-13	20	292614	1-17	5		4-19	10
	2-5	37		5-8	47	292620	6-3	34		5-7	13
	2-9	39		9-7	26	292653	8-3	38		5-21	7
	2-9	39		9-9	28	292656	1-31	4		6-3	36
287844	10-17	12	292511	10-8	23	292661	13-67	4		7-3	7
	12-20	28		11-4	26	292665	3-39	13		7-5	10
287851	1-7	26		12-16	23		3-41	21		8-3	9
	3-47	25	292512	12-31	22		3-45	25		9-3	20
	4-11	35	292513	2-19	22	292667	4-9	8		9-7	9
	4-15	11		5-3	35		8-4	61		9-9	8
	4-19	11	292514	9-11	15		13-25	4		9-11	10
	5-7	14		9-13	15	292668	4-3	15		9-13	10
	12-35	21	292515	4-15	39	292678	2-5	15		11-22	24
287854	2-9	9		4-19	49		4-9	9		12-35	20
	2-9	11	292516	8-3	26		8-4	60		13-27	10
	2-13	26	292517	2-13	20	292679	4-3	10		13-37	10
	2-15	21		2-13	20	292680	1-23	4		13-39	10
	12-35	14		2-15	14		1-25	14		13-41	11
	13-69	5		5-3	32		2-5	26	292682	2-6	46
287860	3-39	2	292519	5-22	3		3-3	13		2-9	8
	3-41	13	292522	2-9	24		3-3	13		2-9	12
	3-45	5		2-11	19		3-17	16		2-11	18

NUMERICAL INDEX (Continued)

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	2-19	14	293603	1-23	2		4-15	50	302244	4-3	8
	2-45	16	293611	9-11	6		4-20	60	302246	3-9	15
	3-39	6		9-13	6	296415	13-25	5		4-15	33
	3-41	11	293612	9-11	17	296418	5-17	15		4-19	42
	3-45	7		9-13	17		13-9	8	302250	4-15	36
	3-47	3	293628	7-9	11		13-11	7		4-19	45
	4-15	22	293630	2-45	15	296419	13-21	4	302263	3-3	11
	4-19	48	293644	1-21	4		13-23	18		3-3	11
	5-3	19	293645	13-19	6	296420	5-11	9		3-17	14
	5-22	4		13-27	17		7-9	11	302324	13-23	16
	7-5	3	293646	1-21	7		13-69	7	302398	1-9	27
	8-3	5	293647	13-19	14	296421	2-19	7		1-25	7
	9-11	14		13-27	13	296422	1-5	15		3-9	16
	9-13	14	293648	7-9	43		2-19	12		4-15	34
	10-7	9	293649	2-17	4		5-7	19		4-19	43
	11-3	13	293657	1-5	5		5-11	7		7-7	7
	12-16	9		5-7	29		9-3	6	302399	3-41	4
	12-35	6	293658	1-5	6	296423	1-5	7		13-5	5
	13-69	6	293685	6-3	24		1-21	5	302400	1-9	16
	13-69	6	293690	2-45	3		1-31	3		3-37	12
292683	1-5	9	293694	7-9	3		13-19	4		7-5	12
	1-21	6	293697	5-7	5		13-27	15	302402	1-5	5
	1-31	5	293700	3-35	13	296426	5-7	4		1-5	8
	2-5	32		3-37	4	296504	4-3	14	302404	3-35	14
	2-9	2	293710	6-3	4	296510	4-4	47		3-37	5
	2-17	1	293726	13-27	6	296511	1-9	26	302472	11-7	17
	2-19	17	293741	9-17	4	297531	11-15	6		11-23	29
	3-37	15	293778	9-17	3		12-28	6		12-20	25
	4-11	19	293780	2-9	30	297532	10-11	4		12-35	28
	4-15	51	293796	11-22	20		10-11	4	302476	3-35	6
	4-20	61		12-35	16		10-12	12	302493	11-7	10
	5-22	2	293797	11-22	13		12-24	9		12-20	9
	9-21	9	295649	11-12	12	297640	12-20	23	302713	2-27	18
	10-5	10	295802	4-23	4	298096	2-33	16	304523	10-7	4
	10-15	6	296010	7-5	11	298831	3-29	3		11-3	8
	10-17	8	296011	2-9	31	298832	3-7	26		12-16	4
	11-7	5	296024	10-7	10	300937	7-9	41	304527	11-7	19
	11-19	6		11-3	14		9-3	7		12-20	26
	12-8	15		12-16	10	300939	1-5	4	305100	2-11	4
	12-20	3	296140	13-67	3	302013	3-39	17		4-11	34
	12-31	6	296163	3-33	2		3-45	22	308980	9-11	36
	13-19	5	296164	3-35	21	302015	3-45	27		9-13	36
	13-27	14	296205	7-7	6	302023	13-25	6	309109	9-11	16
	13-45	18	296215	7-5	17	302024	3-41	6		9-13	16
	13-49	14	296229	13-29	5	302047	13-23	11	309124	4-11	13
	13-53	20		13-31	13	302048	13-29	4	309152	4-11	12
	13-59	14	296251	3-37	14		13-31	9	311277	9-19	12
292685	2-45	4	296359	4-9	12	302049	13-25	11	313805	10-17	13
	7-9	4		4-11	2	302054	8-3	37		12-20	29
292687	6-3	5		4-15	19	302105	3-41	24		12-35	5

NUMERICAL INDEX (Continued)

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	10-7	13		13-59	15		9-9	27		7-9	42
	11-4	25	319323	11-19	8		11-22	11		10-5	9
	11-22	22		12-31	8		13-37	8		11-7	4
	12-16	22		13-53	22		13-39	9		12-20	7
315262	10-8	21		13-59	16		13-41	9	320171	11-22	9
	11-4	35	319891	10-8	21	320158	1-7	20		12-35	11
	12-16	21		11-4	35		1-17	10	320327	11-19	23
316132	4-3	5		12-16	21		2-13	23		12-31	23
	4-16	60	320154	3-41	7		3-7	22		13-59	22
	4-20	70		8-4	58		3-21	22	320397	12-20	23
316448	13-67	7	320155	1-25	6		3-29	9	321043	6-9	2
316678	1-5	12		3-9	14		3-47	22	321044	6-9	2
	1-7	35		4-3	9		4-3	24	321045	6-9	2
	1-21	3		4-15	32		4-11	22	321158	4-11	6
	2-5	8		4-19	41		7-3	3	322637	6-7	4
	3-3	17		7-5	20		7-3	15		6-9	4
	3-7	23	320156	1-9	8		8-4	51		13-70	4
	3-17	13		1-25	13		8-17	4	322638	6-7	5
	3-29	6		2-5	31		9-3	19		6-9	5
	3-41	19		3-3	12		9-7	10		13-70	5
	3-45	11		3-3	12		9-9	9	324858	7-9	45
	4-3	13		3-17	15		9-11	27	324864	7-9	44
	13-9	2		3-41	3		9-13	27	325182	2-69	5
	13-11	3		3-43	6		13-5	6	325789	4-27	6
	13-14	3		3-45	16		13-9	11	325897	4-3	29
	13-39	15		3-47	8		13-11	12		4-15	28
	13-41	16		4-11	11	320159	1-7	10		4-19	37
316826	1-7	38		4-15	5		2-6	45		9-4	44
	2-13	24		4-19	5		2-9	7	327591	10-8	33
	2-15	11		7-3	24		2-11	17		10-15	9
	11-4	29		7-7	20		2-13	23		12-4	11
	12-16	15		9-11	25		2-13	23		12-12	7
	12-35	4		9-13	25		2-15	15		13-45	3
316828	2-17	13		13-5	4		2-15	20	327807	10-12	8
	2-45	5		13-13	8		3-39	5		10-12	8
	11-7	13	320157	1-7	37		3-41	12	327808	10-12	11
	12-20	12		1-9	15		3-43	2		10-12	11
316834	9-11	37		3-3	5		3-45	28	329069	3-39	19
	9-13	37		3-7	19		8-3	11		3-45	32
316835	1-7	12		3-17	19		9-11	41	332061	10-7	5
	13-9	9		3-21	10		9-13	42		11-3	11
	13-11	8		3-29	16	320160	3-47	2		12-16	7
	13-29	1		3-33	9		10-7	15	332755	8-3	20
	13-31	11		3-37	10		11-3	12	334155	9-22	10
316837	3-37	7		4-3	2		12-16	29	334402	5-13	2
317292	11-19	17		4-15	13	320161	2-6	40		5-15	2
	12-31	17		4-19	13		2-6	41	334421	5-3	20
	13-53	23		5-8	43		2-9	3	334447	5-7	12
	13-59	17		5-21	6		2-9	37	334475	5-13	13
319322	11-19	9		7-3	6		3-33	7		5-15	13

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
334500	5-17	10	346675	5-3	15	353448	3-49	8		1-9	22
334531	5-17	13	346680	5-3	27	353453	3-47	21	375984	8-3	24
	5-19	4	346696	5-3	4	355844	13-19	7	375986	5-17	31
334542	5-17	8	346730	5-3	5	356916	10-7	17	376026	6-3	39
334543	5-17	9	346731	5-3	3		12-4	14		6-3	39
334560	5-7	35	347243	11-7	3	356917	10-7	17		7-9	33
334582	5-17	4	347247	11-7	3	359207	3-49	10		7-16	13
335553	1-11	14	348149	12-4	14	359221	5-17	5	377976	2-29	3
335988	1-11	16	348827	11-7	3	360387	3-49	3	379197	1-11	10
335991	1-11	15		12-20	23	361876	5-17	1	379198	1-11	11
336123	6-9	1	350399	2-33	2	361877	5-17	2	379199	1-11	22
336143	3-21	1	350484	5-17	16	364059	11-16	13	379405	9-3	35
336550	2-5	5	351531	10-12	12	364807	1-11	6		9-7	3
336555	6-7	2		10-12	12	364808	1-11	7		9-9	2
	6-9	2		12-24	9	364854	1-11	12		10-8	28
337180	11-7	3	351532	10-12	13	364914	1-11	3		12-16	26
337189	12-20	23		12-24	13	366069	7-15	20	379407	2-59	34
337190	11-7	3	352220	6-3	27	366106	11-7	3	379697	1-11	23
	12-20	23	352247	9-22	5		12-20	23	379698	1-11	20
337239	13-13	5	352266	6-7	1	367139	10-11	6	379902	4-3	40
338646	11-7	3	352268	6-7	2	367420	1-32	1	380524	5-3	31
	12-20	23	352269	6-7	2	367421	1-32	1	383116	1-11	13
338647	10-7	17	352270	6-7	2	367422	1-32	1	386071	4-23	7
	12-4	14	352287	9-22	8	367423	1-32	1	386459	2-29	11
338649	12-20	23	352288	9-21	2	367424	1-32	1		2-31	15
339875	12-20	23	352321	5-7	8	367540	4-27	7		2-33	5
339932	10-8	33	352485	3-47	6		13-35	4		2-41	14
	10-15	9	352950	3-47	16	367945	5-17	32	387455	4-16	57
	11-7	22	352969	3-49	18	369242	13-27	18		4-20	67
	11-19	11	353000	3-7	18	369748	2-55	38	387867	4-16	64
	12-4	11		3-29	17	369815	2-5	10		4-20	74
	12-12	7		9-3	16	370258	1-27	33		8-3	41
	12-20	20	353128	3-49	12	370599	1-7	30		8-4	56
	12-31	11	353129	3-47	7	370647	4-29	1	387869	4-19	25
	13-49	16	353141	3-47	14	370648	4-29	1	387892	4-3	20
	13-59	21	353142	3-47	12	370651	6-3	30	388302	2-53	9
339933	12-20	23	353143	3-47	11	370730	4-27	20	388306	2-65	7
339934	12-4	14	353154	3-49	4	370743	8-3	44	388313	2-53	27
340044	1-27	31	353164	3-47	5	370863	4-3	43	389688	1-27	7
340204	2-5	6	353165	3-49	15	370864	4-3	44	389692	1-27	5
341558	11-19	10	353168	3-49	5	370868	4-3	4	393502	8-3	13
344432	2-5	4	353172	3-47	18	371344	7-15	21	397676	7-3	11
345408	7-15	3	353175	3-49	11	373950	5-3	30		9-4	48
345410	7-15	7	353195	3-47	10		5-11	2		9-7	28
345411	7-15	8	353198	8-4	55	374923	3-3	3		9-9	30
345412	7-15	9	353199	3-17	25		3-5	3	615145	11-15	10
345423	7-5	25	353230	3-47	19		3-19	3		12-28	10
345453	2-5	5	353291	4-19	22	375575	2-53	24	636950	11-15	12
345454	2-5	5	353310	2-5	2	375587	2-55	19		12-28	12
346645	5-17	29	353397	3-49	1	375601	2-53	20	636952	12-28	12
346648	5-17	28	353422	3-49	6	375602	2-53	25	637161	11-15	9
346656	5-8	44	353432	3-49	7	375629	1-7	29		12-28	9

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
637162	11-16	13	1303787	7-15	10	1310377	11-12	3	1324577	7-5	33
	12-28	13	1304349	11-4	34	1310611	4-3	17	1325120	10-7	7
637164	12-28	13	1304971	1-23	11		13-37	15		11-3	9
637635	11-15	6	1306143	2-29	15		13-39	17		12-16	5
	12-28	6	1306193	2-27	16	1310630	4-29	1	1325271	1-27	9
638248	9-22	16	1306194	2-27	17	1313897	6-3	13	1326939	4-11	8
638249	10-12	11	1306331	3-14	6	1316488	2-50	4		4-15	8
	12-24	7	1306345	3-13	9		2-59	27		4-19	8
	12-24	13		3-14	5	1316494	2-50	5	1327161	8-3	3
638250	10-12	11	1306354	2-33	6		2-59	28	1327905	2-37	9
	12-24	7		2-37	4	1317468	2-59	46	1328516	4-23	35
638293	11-16	14		2-43	3	1318965	2-29	10	1328521	4-23	39
	12-28	14	1306356	2-33	12	1318968	2-38	5	1328565	2-33	17
638295	12-28	14	1306358	2-29	22	1319028	2-43	9	1328691	5-7	38
806424	4-27	8		2-31	6	1319190	2-47	19	1328930	9-11	7
806556	7-16	10		2-38	6		4-15	46		9-13	7
815597	3-41	8		2-41	10		4-20	56	1329250	7-5	27
	4-3	21	1306359	2-41	15	1320000	2-55	13	1329272	2-6	55
842799	2-27	4	1306361	2-25	24	1320018	5-3	30	1329660	2-43	2
842800	2-27	5	1306362	2-31	10		5-11	2	1330283	4-27	22
864738	1-28	38	1306364	2-33	15	1320669	4-29	1	1330292	4-27	11
864739	1-27	37	1306365	2-29	24	1320893	3-41	23	1330293	4-27	40
864740	1-27	34	1306370	2-34	5		3-45	20	1330342	3-29	11
864763	1-27	36	1306371	2-19	3		4-16	59	1330353	4-15	38
864765	1-27	35		2-33	23		4-20	69		4-19	47
878989	3-7	12		2-41	13	1322333	5-3	30	1330354	4-27	12
	3-13	17	1306373	2-38	7		5-11	2	1330355	4-27	23
895468	7-5	35	1306374	2-29	4	1322627	5-3	26	1330357	4-27	29
895963	2-6	44	1307875	2-29	9	1323576	4-27	21	1330410	3-49	13
980727	2-21	9	1307877	2-34	4		4-37	6	1330415	3-49	13
980929	12-16	28	1307880	2-29	14	1323586	4-27	10	1330419	4-27	13
983484	2-33	9	1307881	2-33	21		4-37	5	1330420	4-27	14
1151722	9-19	9		2-41	24	1324307	13-13	1	1330424	4-27	30
1300107	1-11	5	1307883	2-29	18		13-34	3	1330434	4-27	25
1300741	13-37	12	1307894	2-21	19	1324308	13-13	1	1330435	3-49	13
	13-39	12		2-23	25		13-34	3	1330438	4-27	24
	13-41	13		2-29	7	1324309	13-13	1		4-33	5
1301167	3-3	27	1307897	2-19	4		13-34	3	1330439	4-33	5
1301286	13-14	2	1307909	2-31	5		13-34	3		4-33	6
1301648	4-3	33		2-31	11		13-34	4	1330450	2-53	6
1301700	13-19	9		2-33	22		13-35	2	1330453	2-65	5
1301720	4-27	9	1307913	2-43	5		13-35	3	1330725	2-60	48
1301727	13-13	10	1308005	3-14	8	1324310	13-13	1	1330917	1-27	20
1302024	13-13	2	1308006	3-11	5		13-34	2	1330919	1-27	16
	13-27	4		3-14	7		13-34	3	1330920	1-27	3
1302126	6-7	2	1309775	13-13	1		13-34	4		13-19	7
1302127	6-7	2		13-27	5		13-35	2	1331341	2-53	26
1302258	13-23	4	1310370	11-12	4		13-35	3		2-59	7
1302938	2-17	12	1310371	11-12	4	1324517	4-11	1	1331990	10-8	32
	2-45	13	1310373	11-12	5		4-19	19		12-4	10
1302954	2-5	3	1310374	11-12	5	1324557	4-16	58	1331991	10-8	32
1302973	5-7	41	1310376	11-12	3		4-20	68		11-7	21

NUMERICAL INDEX (Continued)

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	12-20	19	1339779	3-7	20	1351098	1-5	3	1360875	9-19	3
1332705	12-35	10		3-21	16	1351176	2-13	21		9-19	5
1333001	1-33	1		3-29	15		2-15	13	1361164	3-25	13
1333002	1-33	1	1339947	13-5	1	1351177	2-13	22	1361302	11-15	4
1333003	1-33	1	1339963	2-55	36		2-15	12		12-28	4
1333004	1-33	1	1342528	4-21	1	1351178	2-13	30	1361502	8-9	26
1333541	2-65	6	1343443	9-11	4		2-15	22		8-13	25
1333806	2-59	42		9-13	4	1351473	1-11	1	1361503	8-13	27
1334423	2-59	5	1343449	3-7	16	1351689	8-3	36	1361504	8-9	29
	4-21	4		3-29	27	1352089	3-49	12		8-14	28
1334642	8-9	20	1343537	7-5	19	1352090	3-49	12	1362714	1-7	25
1334790	1-9	13	1343572	7-5	18	1352105	4-33	4	1363916	1-21	9
1335129	1-27	17	1343573	7-5	5	1352123	3-21	20		4-3	42
1335137	1-27	15	1343574	7-5	16	1352190	1-27	29		13-19	3
1335499	2-19	19	1343577	7-7	1	1352575	3-47	13	1363917	1-21	8
	2-53	16	1343578	7-7	2		3-49			9-7	1
1335763	1-17	9	1343579	7-7	3	1352616	7-3	23	1364259	1-7	21
1335898	2-13	8	1343592	7-7	3	1354140	1-11	2	1364271	7-5	13
	2-15	10	1343593	7-7	5	1354165	1-27	12	1367645	13-9	4
1335967	7-5	8	1343594	7-7	9	1354171	1-27	23	1371111	3-13	6
1335987	7-5	7	1343595	7-7	12	1354237	4-33	13	1371137	3-13	7
1336605	1-27	19	1343596	7-7	21	1354300	7-7	11	1371141	3-13	8
1337108	8-3	19	1343597	7-5	31	1354497	4-27	15	1371166	3-7	21
1337118	2-13	7		7-7	22	1355326	7-15	11	1371211	4-23	9
	2-15	9	1343598	7-7	4	1356137	1-27	4	1371212	4-23	18
1337197	4-3	40	1343607	7-5	14	1356316	2-6	61	1371214	4-23	21
1337743	7-16	3	1343630	8-3	27	1356375	7-7	3	1371445	9-3	32
1337744	6-7	2	1344921	2-29	21		7-7	4	1374108	2-55	39
1337745	6-9	2	1345014	2-19	6	1356377	1-21	10	1374205	3-17	6
1337817	5-17	3		4-15	21	1356393	9-3	32	1374206	3-17	6
1338178	1-27	1		4-19	26	1356520	13-14	1	1374207	3-17	6
1338223	2-65	2	1345684	7-9	7	1357322	2-17	5	1374288	2-59	6
1338258	2-13	9	1345939	1-27	10		2-45	6	1374289	2-59	11
1338262	8-3	14	1347004	7-7		1358120	7-3	17	1374293	2-59	14
1338286	1-9	18	1347025	7-5	25		13-37	1	1374297	2-55	2
1338916	8-9	18	1347043	1-9	23		13-39	1	1374298	2-55	8
	8-13	23	1347045	1-9	24		13-41	1	1374299	2-55	7
1338917	8-9	19	1347067	4-3	34	1358179	7-16	3	1374301	2-55	6
	8-13	24	1347088	1-7	16		7-16	3	1374313	2-53	15
1339457	2-5	28		3-47	26	1358184	6-7	2		2-55	35
1339672	1-27	32	1347114	4-29	3	1358185	6-9	2	1374314	2-55	14
1339720	3-7	25	1347135	7-5	32	1358190	7-16	3	1374315	2-55	31
	3-29	4	1347217	7-7	4	1358192	6-9	2	1374317	2-55	26
1339745	9-11	8	1350215	1-9	6	1358195	6-7	2	1374319	2-65	1
	9-13	8	1350282	3-9	6	1358545	2-67	10	1374320	2-65	4
1339746	9-11	9	1350285	1-7	11	1359581	2-5	5	1374326	2-55	32
	9-13	9	1350680	7-9	9	1359587	1-7	31	1374329	4-21	2
1339748	9-13	30	1350733	13-5	1	1360178	2-55	28	1374549	1-27	24
1339749	9-11	5	1350734	13-5	1	1360179	2-53	4	1374750	1-11	21
	9-11	5	1350735	13-5	1	1360182	2-53	5	1375150	1-11	
	9-13	5	1350736	13-5	1	1360529	10-8	35	1375168	13-9	7

NUMERICAL INDEX (Continued)

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	13-11	5		12-24	10	1386191	2-59	23		12-20	18
1375171	13-9	1	1381074	11-16	14	1386194	2-63	4	1387744	10-5	12
1375172	13-9	1	1381085	9-22	15	1386195	2-63	5	1387745	10-5	12
1375782	4-27	16	1382126	1-23	22	1386197	2-63	7	1387904	1-31	1
1375783	4-27	26	1382130	13-13	1	1386198	2-63	8	1387963	12-20	16
1376007	6-7	2	1382131	13-27	5	1386940	5-7	10	1387965	12-20	16
	6-9	2	1382479	2-33	11	1386958	5-3	8	1387966	12-20	16
	7-16	3	1382546	2-21	16	1387230	5-17	14	1387968	12-20	16
1376439	13-23	4	1382556	7-5	25	1387235	5-13	10	1387969	12-20	16
1376440	13-23	4	1382954	2-37	2		5-15	10	1387970	12-20	16
1376446	13-23	4	1383031	9-22	3	1387281	11-7	15	1387986	12-20	16
1376557	8-17	1	1383204	2-11	11		12-20	17	1387988	12-20	16
1376579	13-11	2	1383211	2-59	39	1387285	10-15	8	1387993	10-15	4
1376743	7-5	30	1383213	2-59	40		12-12	6		11-19	4
1376746	3-7	24	1383237	2-59	38		13-45	2		12-31	4
	3-29	5	1383239	2-59	41	1387286	10-15	8		13-45	11
1377103	2-55	23	1383241	2-59	31		12-12	6		13-49	7
1377104	2-55	25	1383257	2-50	1		13-49	15		13-53	13
1377107	2-55	33		2-55	12	1387324	10-8	24		13-59	7
1377110	2-63	3		2-59	30		11-4	27	1388018	12-35	26
1377750	2-11	20	1383263	2-55	41		12-16	24	1388019	10-7	18
1377792	2-59	15	1383331	4-11	14	1387327	12-35	19		11-3	21
1377793	2-59	16	1383777	7-9	31	1387330	1-31	2		12-16	17
1377794	2-59	17	1383904	2-59	10	1387341	1-31	1	1388092	10-15	1
1377908	2-29	5	1384578	2-11	10	1387342	1-31	1	1388094	10-15	1
1377953	13-66	3	1384594	4-3	11	1387345	1-31	1	1388386	2-41	20
1377954	13-66	6	1384659	13-69	10	1387346	1-31	1	1388387	2-23	6
1378168	1-5	2	1384699	3-21	3	1387349	1-31	1	1388563	5-18	1
1378197	1-5	3	1385060	5-7	24	1387399	10-8	25	1388573	5-7	39
1378198	2-17	9	1385061	5-8	62		11-4	28		5-18	6
	2-45	10	1385062	5-8	63		12-16	25	1388612	5-7	11
1378226	2-19	21	1385063	5-8	64	1387448	10-15	1		5-19	
1378259	5-7	3	1385064	5-8	65	1387457	12-31	1	1388613	5-19	1
1378435	8-3	8	1385065	5-7	25	1387459	12-31	1	1388615	5-19	3
1378509	1-27	27	1385102	1-27	14	1387479	12-20	27	1388657	7-13	1
1378600	7-5	6	1385449	1-17	1	1387497	12-31	1	1388665	7-13	4
1379063	11-12	9	1385451	7-5	1	1387498	12-31	1	1388670	7-9	20
	12-24	14	1385457	1-17	1	1387519	11-7	16	1388673	7-9	1
1380261	2-31	9	1385489	5-8	48		12-20	24	1388677	5-7	22
1380757	13-23	4	1385498	1-9	19	1387523	12-35	7	1388678	5-7	18
1380878	9-22	4	1385535	1-7	18		12-35	8	1388680	5-7	27
1380901	11-12	1	1385873	5-7	42	1387548	11-19	10	1388695	5-8	60
1380904	11-12	1	1386176	2-55	18		12-31	10	1388697	5-7	16
1380914	11-12	1		2-65			13-53	6	1388698	5-7	17
1380926	11-12	1	1386177	2-65	8	1387549	11-19	11	1388699	5-8	66
1380982	11-15	12	1386179	2-55	22		12-31	11	1388704	2-17	11
1381055	11-12	13	1386183	2-55	27		13-53	7		2-45	12
1381056	11-12	13	1386184	2-55	40	1387553	12-20	2	1388705	2-19	9
1381061	10-12	10	1386185	2-59	1	1387584	11-7	14		5-11	11
	12-24	10	1386186	2-59	12		12-20	15	1388706	2-19	9

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
1388721	5-11	11	1389365	3-9	8	1393160	5-18	4	1393879	5-21	4
	4-15	37	1389479	4-29	1		5-19	2		7-3	5
	4-19	46		4-29	3	1393342	6-3	17		9-3	40
	4-25			4-29	5	1393344	6-3	38		9-7	17
1388733	2-19	20		4-29	7		13-70	7		9-9	17
1388735	5-7	33		4-29	7	1393346	6-3	38		9-11	39
1388747	5-8	48	1389590	9-7	41	1393348	7-9	25		9-13	40
1388750	2-19	11	1389779	12-8	12	1393350	2-55	17	1394001	4-11	32
	5-11	6	1389780	12-8	12	1393451	13-23	2		4-19	21
1388752	5-3	11	1389825	11-7	9	1393452	13-23	3		4-23	
1388753	5-3	12		12-20	8	1393453	13-21	16	1394008	3-17	30
1388773	7-5	21	1389828	12-35	13	1393454	13-21	17	1394436	2-17	14
	7-15		1389844	11-4	33	1393455	13-21	22		2-45	14
1388776	9-7	37		12-16	12	1393458	13-23	13	1394437	2-17	10
	9-9	39	1389845	12-16	12	1393463	13-29	17		2-45	11
1388780	7-13	7	1389846	10-5	6		13-31	20	1394453	9-3	10
1388801	5-7	36		12-8	11	1393464	13-29	11	1394500	6-7	2
1388802	5-7	7	1389854	12-35	30		13-31	6		13-70	6
1388804	5-7	34	1389921	10-7	16	1393466	13-23	8	1394508	7-16	4
1388827	7-9	23	1389922	11-4	32	1393467	13-29	16	1394509	7-16	4
1388828	7-9	23		12-16	16	1393468	13-31	7	1394510	7-16	4
1388829	7-9	40	1389923	10-7	8	1393471	13-17	5	1394511	7-16	7
1388832	7-9	32	1389924	11-4	31	1393472	13-21	18	1394512	7-16	7
1388838	7-10	46		12-16	8		13-29	9	1394514	7-16	9
1388842	7-9	2	1389959	10-5	8		13-31	18	1394552	7-9	12
1388846	7-9	16		12-8	14	1393479	13-29	8	1394554	7-9	12
1388847	7-9	15	1390101	5-8	61	1393480	13-29	10	1394576	8-3	15
1388848	7-9	14	1390110	3-3	4	1393482	13-31	10	1394581	2-6	60
1388856	5-3	22		3-17	3	1393483	13-31	17		2-9	32
1388857	5-3	24	1390163	4-25	7	1393485	13-29	12	1394594	2-6	57
1388869	5-7	1	1390164	4-25	36		13-31	16		2-9	27
1388870	5-7	1	1390167	4-25	38	1393486	13-21	20	1394595	2-6	57
1388879	1-17	1	1390759	2-53	2	1393488	13-21	23		2-9	27
1388880	1-17	1	1390760	2-53	2	1393492	13-17	4	1394603	6-3	1
1388882	1-17	1	1390761	2-53	3	1393493	13-17	3	1394605	6-3	8
1388883	1-17	1	1390765	2-53	3	1393497	13-23	6	1394618	6-3	16
1388898	1-17	3	1390770	2-53	7	1393503	13-21	29	1394620	6-3	19
1388901	5-3	34	1390773	2-53	12	1393504	13-23	5	1394621	6-3	20
1388911	2-6	50	1391246	2-25	21	1393505	13-23	9	1394622	6-3	21
1388924	5-17	22	1392210	4-11	26	1393511	13-21	7	1394624	6-3	22
1388954	9-7	38	1392718	1-7	5		13-23	1	1394646	6-3	26
	9-9	40	1392738	3-21	15		13-25	2	1394661	6-3	35
1388963	9-3	8	1392740	13-19	13	1393514	13-23	17	1394681	6-3	9
1388993	5-3	28		13-27	3	1393517	13-21	3		8-9	
1389050	2-59	19	1392797	13-27	8	1393524	13-25	3	1394682	6-3	10
1389051	2-59	20	1392799	3-3	26	1393527	13-25	8		8-9	
	2-63	2		3-17	7	1393528	13-25	7	1394689	9-21	14
1389092	2-55	24	1392814	3-3	25	1393537	13-32	1	1394707	5-7	23
1389093	2-59	9		3-17	8	1393540	13-17	10	1394709	5-7	6
1389100	2-55	15	1392818	13-27	19	1393541	13-21	21	1394710	5-17	17
1389102	2-59	2	1392819	13-27	20	1393543	13-21	11	1394711	5-17	18
1389133	2-59	8	1393127	2-63	6	1393547	13-32	1	1394712	2-9	14

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
1394714	5-3	23	1395481	10-7	17	1396518	2-13	3		2-45	9
	5-17	23	1395487	12-4	14	1396526	13-69	1	1397762	2-17	7
1394715	6-4	39	1395509	10-7	17	1396527	13-69	1		2-45	8
	6-4	39	1395851	12-4	1	1396528	13-69	1	1397783	4-11	7
	7-9	33	1395853	12-4	1	1396534	13-69	2		4-15	15
	7-17	13	1395854	12-4	1	1396535	13-69	2		4-19	15
1394716	2-17	2	1395856	12-4	1	1396536	13-69	2	1397786	4-11	4
1394717	2-17	3	1395857	12-4	1	1396574	2-13	28		4-19	16
1394718	2-45	1	1395858	12-4	1		2-15	18	1397787	4-11	5
1394786	5-3	6	1395872	12-4	1	1396625	1-7	5	1397796	9-17	1
1394787	5-3	9	1395876	12-4	1	1396626	1-7	4	1397797	5-22	5
1394788	5-3	7	1395877	12-7	1	1396637	5-17	26	1397804	5-11	8
1394789	5-4	39	1395879	12-7	1	1396641	1-9	5	1397807	2-6	39
1394794	5-3	17	1395880	12-7	1	1396658	1-7	41		2-9	42
1394798	5-3	10	1395882	12-7	1	1396696	2-13	29	1397808	2-6	42
	5-11	1	1395883	12-7	1		2-15	16		2-9	41
1394799	5-3	10	1395884	12-7	1	1396708	9-11	13	1397822	2-13	14
	5-11	1	1395898	12-7	1		9-13	13	1397840	4-3	16
1394800	5-7	28	1395902	12-7	1	1396715	9-11	22	1397851	5-7	26
1394803	2-13	25	1395903	12-11	1		9-13	22	1397852	5-7	26
	2-15	23	1395905	12-11	1	1396719	7-3	9	1397863	7-5	28
1394815	8-3	32	1395906	12-11	1	1396720	7-3	14	1397864	7-5	29
1394816	8-3	33	1395908	12-11	1	1396726	2-9	34	1397957	1-7	2
1394817	8-3	32	1395909	12-11	1	1396779	2-9	25	1397958	1-7	2
1394818	8-3	33	1395910	12-11	1		2-11	15	1397960	1-7	3
1394819	8-3	34	1395924	12-11	1	1397451	4-3	45	1397963	1-7	7
1394879	5-13	4	1395928	12-11	1	1397500	13-69	1	1397964	1-7	6
	5-15	4	1396009	1-9	20	1397502	13-69	2	1397978	5-21	2
1394881	5-13	12	1396012	1-9	20	1397511	9-11	24	1397979	7-3	10
	5-15	12	1396014	9-11	33		9-13	24	1397980	7-3	10
1394882	5-13	5		9-13	33	1397570	9-3	30	1397981	9-3	27
	5-15	5	1396015	9-11	34	1397647	1-25	1	1397982	5-21	3
1394893	5-13	6		9-13	34	1397649	8-4	50	1397984	9-7	33
	5-15	6	1396016	9-11	35	1397651	1-25	1		9-9	35
1394912	5-13	7		9-13	35	1397678	9-11	40	1397987	3-3	23
	5-15	7	1396017	9-13	38		9-13	41		3-17	7
1394984	11-19	1	1396024	1-5	10	1397682	9-7	24	1397988	3-3	16
1394992	11-19	1	1396039	1-21	1		9-9	26		3-17	8
1395342	10-3	1	1396053	5-3	2	1397685	9-3	3	1397989	3-3	15
1395348	10-3	1	1396064	5-13	1	1397689	2-19	10		3-3	15
1395353	10-3	1	1396065	5-15	1		5-11	5		3-17	9
1395354	10-3	1	1396079	2-15	8	1397694	13-9	10		3-17	9
1395356	10-3	1	1396108	9-11	24	1397697	2-5	16	1398002	3-3	22
1395383	10-3	1		9-13	24	1397698	2-5	17		3-3	22
1395384	10-5	1	1396139	2-15	7	1397708	8-3	25		3-17	12
1395390	10-5	1	1396147	1-9	1	1397710	2-5	18	1398009	1-5	13
1395395	10-5	1	1396148	1-9	2	1397716	4-9	5	1398062	1-19	6
1395396	10-5	1	1396151	3-47	1	1397739	9-3	14		2-5	36
1395398	10-5	1	1396174	2-6	60		9-17			2-5	36
1395425	10-5	1		2-9	32	1397740	9-17	2		2-6	62
1395449	12-4	14	1396256	3-9	1	1397744	9-3	28		2-9	4
1395480	11-7	3		3-11		1397761	2-17	8	1398085	3-35	4

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
1398086	3-35	5	1399114	12-16	28	1399323	7-3	8	1399492	12-35	31
1398087	3-37	13	1399116	10-8	27		9-7	18		12-35	2
1398089	3-35	8	1399121	9-4	47		9-9	18	1399493	12-35	31
1398092	3-35	7		9-7	2	1399332	4-15	2		12-35	2
1398093	3-35	9		9-9	1		4-19	2	1399494	12-35	32
1398097	3-35	10	1399124	12-16	28	1399333	4-15	3	1399495	12-35	2
	3-37	13	1399136	12-16	27		4-19	3	1399496	12-35	1
1398098	3-35	11	1399146	12-16	27	1399334	9-3	41	1399498	12-35	31
	3-37	13	1399167	10-8	29	1399335	4-15	4	1399499	12-35	32
1398099	3-35	12	1399176	10-8	29		4-19	4	1399500	12-35	31
	3-37	13	1399179	10-8	27	1399337	1-9	11	1399501	12-35	32
1398105	2-59	29	1399184	10-8	27	1399338	1-9	12	1399503	12-35	31
1398127	13-69	3	1399203	12-4	3	1399347	3-37	17	1399504	12-35	32
1398128	13-69	3	1399204	10-3	3	1399360	3-37	6	1399506	12-35	31
1398131	13-69	4		10-5	3	1399372	3-37	9	1399532	12-35	1
1398132	13-69	4		11-3	5	1399380	9-11	23	1399533	12-35	2
1398141	3-35	1		11-7	23		9-13	23	1399541	12-35	32
1398143	3-35	3		12-4	3	1399381	3-7	13	1399543	12-35	1
	3-37	13		12-7	3	1399386	9-3	26		12-35	2
1398144	3-37	13	1399205	12-4	3	1399399	1-9	9	1399548	12-35	32
1399075	10-8	29	1399207	10-15	14	1399400	4-3	18	1399549	12-35	31
1399077	12-16	28		12-4	4	1399405	3-37	1	1399760	1-5	14
1399078	10-8	29		12-11	4	1399406	3-37	2	1399762	13-13	4
	12-16	28		13-49	3	1399407	3-37	8	1399764	13-13	3
1399080	12-16	28	1399217	12-35	22	1399410	3-37	11	1399766	13-11	4
1399081	12-16	28	1399224	10-15	13	1399417	9-7	23	1399784	1-23	19
1399082	12-16	28		11-19	14		9-9	23		1-25	10
1399083	12-16	28		12-31	14	1399419	9-9	24	1399787	9-7	32
1399085	10-8	29		13-45	9	1399420	9-9	25		9-9	34
	12-16	28		13-49	5	1399432	13-69	9	1399791	2-15	5
1399087	10-8	27		13-53	5	1399455	5-7	9	1399809	1-23	1
1399090	10-8	29		13-59	5	1399474	13-13	1		1-25	
	12-16	27	1399236	12-4	2		13-27	5	1399810	1-23	1
1399092	10-8	27	1399243	11-22	12	1399475	12-35	1		1-25	
	12-16	27		12-35	27		12-35	2	1399813	1-25	9
1399094	12-16	27	1399266	12-35	1	1399476	12-35	2	1399814	1-25	9
1399096	10-8	29		12-35	2	1399477	12-35	1	1399815	1-23	18
	12-16	27	1399268	12-35	1	1399479	12-35	2		1-25	8
1399097	10-8	29	1399270	12-35	31	1399480	12-35	1	1399816	1-25	5
1399099	10-8	27	1399273	12-35	32		12-35	2	1399817	1-25	4
	12-16	27	1399274	12-35	32	1399481	12-35	32	1399818	1-25	2
1399100	12-16	27	1399276	8-3	7	1399482	12-35	31	1399820	1-25	3
1399102	10-8	29		8-7			12-35	1	1399822	13-37	6
	12-16	27	1399288	8-3	18		12-35	2		13-39	6
1399103	12-16	27	1399289	8-3	22	1399483	12-35	2		13-41	7
1399104	10-8	27	1399298	5-11	11	1399484	12-35	1	1399823	9-3	5
	12-16	27	1399301	3-29	14	1399485	12-35	32	1399829	1-25	11
1399105	12-16	27	1399310	2-5	19	1399487	12-35	1	1399830	1-25	12
1399107	12-16	27	1399311	2-5	20	1399488	12-35	2	1399873	1-27	25
1399108	10-8	27	1399312	2-5	21	1399489	12-35	31	1399874	1-27	25
1399109	10-8	27	1399313	2-5	22	1399490	12-35	32	1399875	1-27	25
1399111	10-8	27	1399314	2-5	23	1399491	12-35	32	1399876	1-27	25

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
1399877	1-27	25	1400901	11-12	2	1453371	4-23	33		3-14	1
1399878	1-27	25	1400904	11-12	2	1453373	4-23	34	1460557	2-29	1
1399885	1-27	13	1400907	11-12	2	1453375	4-23	36	1460738	2-53	11
1399886	4-3	31	1400910	11-12	2	1453376	4-23	37	1460757	2-55	30
1399919	1-33	1	1400913	11-12	2	1453377	4-23	38	1460758	2-55	30
1399920	1-33	1	1400916	11-12	2	1453379	4-23	40	1460768	2-56	50
1399921	1-33	1	1400919	11-12	2	1453381	4-23	41	1461077	5-17	35
1399922	1-33	1	1400922	11-12	2	1453382	4-23	42	1462233	4-25	1
1400125	11-19	21	1400927	11-12	2	1453383	4-23	43	1462234	4-25	2
	12-31	21	1400928	11-12	2	1453385	4-23	44	1462235	4-25	3
	13-53	11	1400975	11-12	2	1453386	4-23	24	1462236	4-25	4
1400126	11-19	20	1400976	11-12	2	1453387	4-23	20	1462238	4-25	5
	12-31	20	1400997	11-12	2	1453680	4-23	34	1462239	4-25	5
	13-53	10	1400998	11-12	2	1453681	4-23	2	1462240	4-25	6
1400127	13-63	7	1401163	2-49	8	1453682	4-23	3	1462241	4-25	9
	13-65	7		2-55	43	1453775	9-19	17	1462249	4-25	17
1400128	13-63	1	1401178	2-69	6	1453776	9-19	16	1462250	4-25	18
1400129	13-63	2	1401537	9-3	44	1454827	4-27	37	1462251	4-25	19
1400130	13-63	3	1402189	2-13	17	1454828	4-27	27	1462252	4-25	20
1400131	13-63	4	1402809	4-16	54	1454860	4-27	17	1462253	4-25	21
1400134	13-63	1		4-20	64	1454862	4-27	39	1462254	4-25	22
1400135	13-63	2	1402878	4-30	14	1454955	2-55	9	1462255	4-25	23
1400136	13-63	3	1402922	4-30	15		2-55	9	1462256	4-25	24
1400137	13-63	4	1402926	4-27	32	1454956	2-55	10	1462257	4-25	25
1400138	13-65	1	1402927	4-27	31		2-55	10	1462258	4-25	26
1400139	13-65	2	1402931	4-27	28	1454957	2-55	11	1462259	4-25	27
1400140	13-65	3	1450555	2-53	22		2-55	11	1462260	4-25	28
1400141	13-65	4	1450696	2-59	47	1454967	4-15	26	1462261	4-25	29
1400144	13-65	1	1450941	2-65	9		4-19	35	1462262	4-25	30
1400145	13-65	2	1451319	2-53	17	1454974	2-56	51	1462263	4-25	31
1400146	13-65	3	1451321	2-55	34	1456111	2-55	1	1462264	4-25	32
1400147	13-65	4	1451568	3-21	14	1456686	13-13	14	1462265	4-25	33
1400151	1-23	6	1451606	2-27	11	1456711	2-21	12	1462266	4-25	34
1400152	1-23	7	1451629	2-23	3	1457312	2-5	5	1462267	4-25	35
1400153	1-23	8	1451636	2-23	12	1458264	1-33	1	1462268	4-25	37
1400154	1-23	9	1451669	2-41	4	1458456	3-7	14	1462269	4-25	39
1400158	5-18	3	1452376	2-59	8	1459983	7-15	24	1462270	4-25	40
	5-19	2	1452463	3-17	26	1459984	7-15	12	1462271	4-25	41
1400159	5-7	40	1453351	4-23	1	1459985	7-15	22	1462272	4-25	42
	5-18		1453352	4-23	12	1459986	7-15	23	1462273	4-25	8
1400180	1-9	25	1453354	4-23	13	1459987	7-15	19	1462439	3-3	3
1400197	3-33	1	1453358	4-23	14	1459988	7-15	4		3-5	1
	3-35	18	1453361	4-23	25	1459989	7-15	16		3-19	1
1400207	13-19	11	1453362	4-23	26	1460209	2-23	24	1462441	3-3	3
	13-27	16	1453363	4-23	27	1460322	2-55	37		3-5	2
1400223	3-43	8	1453364	4-23	28	1460330	2-53	21		3-19	2
1400224	3-43	3	1453365	4-23	29	1460331	2-53	23	1462442	3-3	3
1400229	2-6	63	1453366	4-23	30	1460333	2-59	22		3-5	4
1400232	3-43	4	1453367	4-23	31	1460384	2-63	9		3-19	4
1400244	7-3	4	1453368	4-23	32	1460386	2-53	8	1462618	6-7	2
	9-7	20	1453369	4-23	33	1460477	2-13	19	1463223	8-9	2
	9-9	20	1453370	4-23	33		2-19	8	1463226	8-9	3

NUMERICAL INDEX (Continued)

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1463229	8-9	3	1464144	5-18	5	1465325	13-65	11	1467087	11-7	1
1463231	8-13	2	1464197	2-43	4	1465443	1-21	1	1467093	11-7	1
1463242	8-9	1	1464540	3-11	3	1465489	10-17	4	1467104	11-7	1
1463243	8-9	1	1464541	3-11	2		11-22	18	1467145	13-47	6
1463244	8-9	2	1464543	3-11	1		12-35	3		13-51	3
1463245	8-9		1464544	3-11	6	1465518	9-21	16		13-55	6
1463246	8-9		1464545	3-11	7	1465545	1-34	1		13-57	6
1463247	8-9	27	1464546	3-11	8	1465546	1-34	1		13-61	3
	8-17	7	1464864	1-31	1	1465547	1-34	1	1467146	13-47	7
1463248	8-9	27	1464865	1-31	1	1465548	1-34	1		13-51	4
	8-17	7	1464890	3-21	13	1465585	10-7	12		13-55	7
1463339	8-13	1	1464909	1-7	40		12-16	30		13-57	7
1463340	8-13	1	1464915	8-10	31	1465740	1-21	11		13-61	4
1463341	8-13	2	1464916	8-10	32		13-19	2	1467147	13-47	8
1463350	8-13	6	1464917	8-9	30		13-27	12		13-51	5
1463351	8-13	6	1465028	10-15	5	1465778	3-39	8		13-55	8
1463352	8-13	7		11-19	5		3-43			13-57	8
1463353	8-13	7		12-31	5		3-45	4		13-61	5
1463354	8-13	8		13-45	16	1465779	3-43	7	1467148	13-47	9
1463355	8-13	9		13-49	12	1465780	3-43	3		13-51	6
1463356	8-13	9		13-53	18	1465799	3-43	5		13-55	9
1463357	8-13	10		13-59	12	1465885	11-19	1		13-57	9
1463358	8-13	10	1465072	10-3	4	1465897	13-42	1		13-61	6
1463359	8-13	11		10-5	4	1465899	3-45	9	1467149	13-47	12
1463361	8-13	14		10-15	12		3-47			13-55	10
1463362	8-13	15		11-3	7	1465940	11-3	1		13-57	12
1463363	8-13	16		11-8	25	1465946	11-3	1	1467150	13-47	13
1463364	8-13	19		11-19	13	1465952	11-3	1		13-55	11
1463365	8-13	21		12-4	5	1465963	11-3	1		13-57	13
1463366	8-13	22		12-7	6	1466001	2-5	27	1467151	13-47	1
1463445	8-7	1		12-11	5	1466011	8-17	3		13-55	1
1463446	8-7	6		12-31	13	1466123	5-7	37		13-57	1
1463447	8-7	9		13-45	8		5-17		1467153	13-47	2
1463448	8-7	13		13-49	4	1466337	13-42	2		13-55	2
1463449	8-7	14		13-53	4	1466394	9-19	19		13-57	2
1463450	8-7	8		13-59	4	1466396	9-19	11	1467154	13-47	3
1463451	8-7	17	1465157	13-63	8	1466397	9-19	13		13-55	3
1463454	8-7	5	1465158	13-63	9	1466415	13-42	4		13-57	3
1463455	8-7	4	1465159	13-63	10	1466416	1-7	42	1467200	13-47	11
1463461	8-7	2	1465160	13-63	11	1466438	5-8	55		13-51	11
1463462	8-7	3	1465177	10-15	3	1466442	9-19	2		13-57	11
1463463	8-7	11		11-19	3	1466443	9-19	4		13-61	11
1463464	8-7	12		12-31	3	1466444	9-19	6	1467201	13-47	10
1463465	8-7	15		13-45	13	1466446	9-19	7		13-51	8
1463466	8-7	7		13-49	9	1466447	9-19	8		13-57	10
1463467	8-7	10		13-53	15	1466472	13-42	3		13-61	8
1463471	8-13	26		13-59	9	1466632	3-39	3	1467202	13-51	12
	8-17	7	1465228	12-31	1		3-45	8		13-61	12
1463472	8-13	26	1465258	5-22	5	1466859	2-25	6	1467203	13-51	13
	8-17	7	1465322	13-65	8	1466925	11-22	14		13-61	13
1463993	8-7	18	1465323	13-65	9	1466997	13-5	2	1467204	13-51	1
1463995	8-7	16	1465324	13-65	10	1467081	11-7	1		13-61	1

NUMERICAL INDEX (Continued)

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1467205	13-51	2	1468311	13-17	11	1471555	2-63	2	1474710	13-23	12
	13-61	2		13-21	14	1471556	2-55	3		13-29	3
1467206	13-51	7	1468312	13-21	15	1471557	2-63	1		13-31	8
	13-61	7	1468320	13-25	10	1471558	2-55	29	1474711	13-25	13
1467327	12-35	1	1468321	13-25	12	1471559	2-59	18	1474765	13-29	2
1467338	1-23	23	1468468	9-19	1	1471560	2-56	48		13-31	1
1467340	1-23	24	1468469	9-19	1	1471591	7-16	3	1474766	13-29	7
1467342	1-23	25	1468470	9-19	20	1471595	6-9	2		13-31	15
1467343	1-23	24	1468472	1-13		1471829	7-16	3	1474767	13-29	18
1467344	1-23	27		1-15		1471830	6-7	2		13-31	5
1467345	1-23	28	1468473	1-13		1471831	6-9	2	1474768	13-29	19
1467347	1-23	29		1-15		1471866	1-7	32		13-31	2
1467523	1-15	1	1468576	9-19	21	1471922	6-9	2	1474820	13-21	27
1467524	1-15	2	1468578	9-19	6		7-16	3		13-29	20
1467525	1-15	3	1468699	1-19	2	1471960	4-33	4		13-31	3
1467526	1-15	4		2-5	38	1473099	8-4	54	1474821	13-21	28
1467527	1-15	5	1469301	5-13	11	1473100	12-35	31		13-29	21
1467529	1-15	7		5-15	11	1473105	12-35	31	1474825	3-14	3
1467531	1-15	6	1469317	1-9	21	1473859	3-41	2	1474950	13-17	8
1467632	13-47	14	1469597	4-11	32		3-45	26	1474951	13-17	7
	13-55	12	1469598	4-15	18	1473994	3-41	9	1474952	13-21	12
	13-57	14	1469604	4-9	1	1474048	11-22	27	1474953	13-21	13
1467633	13-47	15	1469606	4-37	4	1474051	11-22	27	1474954	13-21	9
	13-51	15	1470009	1-7	23	1474054	11-22	27	1474955	13-23	10
	13-55	13	1470010	1-7	22	1474057	11-22	27	1474956	13-25	9
	13-57	15	1470021	1-7	33	1474060	11-22	27	1474957	13-21	6
	13-61	15	1470152	1-13	1	1474063	11-22	27	1474959	13-29	14
1467634	13-51	14	1470153	1-13	1	1474071	11-22	27	1474960	13-29	15
	13-61	14	1470155	1-13	37	1474074	11-22	27	1474961	13-31	12
1467651	11-3	4	1470156	1-13	38	1474101	11-22	26	1474962	13-31	19
1467657	11-3	4	1470157	1-13	39	1474107	11-22	26	1475160	9-3	44
1467663	11-3	4	1470158	1-13	40	1474113	11-22	26	1475493	3-9	21
1467674	11-3	4	1470159	1-13	34	1474124	11-22	26		4-15	43
1467769	13-47	5	1470160	1-15	8	1474125	11-22	28		4-20	53
1467770	13-55	5	1470161	1-13	42	1474131	11-22	28	1475787	11-22	2
1467771	13-47	5	1470163	1-13	29	1474137	11-22	28	1475788	11-22	3
1467772	13-57	5	1470164	1-13	41	1474148	11-22	28	1475789	11-22	3
1467773	13-61	9	1470275	8-7	6	1474318	13-67	2	1475794	11-22	3
1467774	13-51	10	1470686	8-3	28	1474335	13-67	6	1475795	11-22	3
1467775	13-61	9	1470920	1-19	1	1474399	10-7	11	1475800	11-22	3
1467776	13-51	10		2-5	38		11-3	15	1475801	11-22	3
1468023	1-23	15	1470921	1-19	1		12-16	11	1475813	11-22	3
1468024	1-23	16		2-5	38	1474496	12-35	17	1475814	11-22	3
1468025	1-23	17	1470922	1-19	1	1474497	12-35	29	1475833	11-22	6
1468027	1-23	30		2-5	38	1474605	12-16	28	1475834	11-22	6
1468032	1-23	20	1470923	1-19	1	1474701	13-17	12	1475839	11-22	6
1468033	1-23	21		2-5	38		13-29		1475840	11-22	6
1468307	13-21	10	1471496	3-43	9	1474702	13-17	12	1475845	11-22	6
	13-23	14	1471535	1-19	3		13-31		1475846	11-22	6
1468309	13-21	8		2-5	33	1474703	13-17	9	1475859	11-22	6
1468310	13-29	6		2-5	33	1474704	13-25	1	1476015	2-13	13
	13-31	14	1471541	3-43	11	1474709	13-21	24	1476017	2-13	11

NUMERICAL INDEX (Continued)

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1476045	2-13	33	1484276	11-22	4	1484671	4-33	4		5-22	
1476048	2-13	34		11-22	1	1484672	4-33	4	1488600	5-3	
1476052	2-13	32	1484277	11-22	4	1484681	4-29	1		5-7	
1476107	2-13	5		11-22	1	1484682	4-29	1		5-11	
1476145	2-47	17	1484283	11-22	4	1484683	4-29	5		5-22	
	2-49	9		11-22	1		4-29	5	1488601	5-3	
1476416	13-67	1	1484289	11-22	4		4-29	6		5-7	
1476422	1-5	24		11-22	1		4-29	7		5-11	
1476426	5-7	30	1484300	11-22	4		4-30	9		5-22	
	6-5			11-22	1	1484684	4-29	3	1488602	5-3	16
1476761	1-5	11	1484357	4-33	5		4-30	8		5-13	1
1477080	11-22	14	1484358	4-33	5	1484687	4-31	26	1488604	5-3	14
1477166	1-32	4	1484375	4-30	11	1484707	4-30	11		5-15	
	1-34	4		4-33	2		4-33	2	1488915	13-67	2
1477232	9-3	28	1484383	4-33	14	1484710	4-33	4	1489643	2-63	10
1477237	1-32	7	1484454	11-22	5	1484718	4-31	26	1489956	4-29	2
	1-34	7	1484460	11-22	5	1484719	4-29	5	1489957	4-29	1
1477491	3-39	9	1484466	11-22	5		4-29	5		4-29	3
	3-45	30	1484477	11-22	5		4-29	5		4-29	5
1477570	10-17	7	1484498	11-22	2		4-29	5		4-29	5
1477578	10-17	5	1484504	11-22	2		4-29	6		4-29	5
1479090	1-33	1	1484515	11-22	2		4-29	6		4-29	6
1479092	13-19	8	1484522	11-22	5		4-29	7		4-29	6
1479093	13-19	8	1484528	11-22	5		4-29	7		4-30	8
1479109	4-30	15	1484534	11-22	5		4-30	9		4-30	9
1479756	6-3	25	1484545	11-22	5	1484720	4-33	6	1490070	8-3	2
1480019	1-17	7	1484555	4-34	15	1484733	6-5	9	1490250	4-29	1
1480237	13-37	7		4-34	16	1484734	6-5	1	1490252	4-31	26
	13-39	7		4-34	17	1484735	6-5	2	1490391	5-17	27
	13-41	8	1484594	13-34	1	1484736	6-5	3	1490766	1-23	13
1480392	12-31	10	1484595	13-34	1	1484737	6-5	4	1491175	13-11	11
	13-59	20	1484596	13-6	1	1484738	6-5	5	1491381	7-9	
1482664	4-30	14		13-34	1	1484739	6-5	6	1491382	7-9	9
1482700	2-63	1	1484597	4-30	13	1484740	6-5	8	1491830	7-7	8
1482701	2-63	4		4-30	19	1484741	6-5	7	1492957	4-3	39
1483108	5-17	12		4-31	20	1485280	1-7	6	1493062	2-45	2
1483331	13-61	9		4-33	1	1485281	1-7	7	1493116	4-11	17
1483333	13-61	9		4-34	18	1485436	3-37	18		4-15	49
1483335	13-57	5		13-6	1	1485443	9-21	17		4-20	59
1483336	13-55	5		13-34	1	1485449	9-21	15	1493147	1-5	1
1483828	1-15	9	1484611	4-31	21	1485806	13-21	19	1493148	1-5	1
1483938	11-22	2	1484651	4-31	24	1485807	13-21	19	1493306	9-22	17
1483944	11-22	2	1484654	4-34	18	1485867	6-3	25	1493436	4-30	15
1483950	11-22	2	1484655	4-34	18	1486838	12-16	28	1493444	4-33	3
1483958	11-22	6	1484656	4-30	13	1486842	3-9	24	1493445	4-33	3
1483961	11-22	2		4-30	19	1487201	5-13	12	1493458	4-33	14
1483993	11-22	4		4-30	20		5-15	12	1493460	4-33	13
	11-22	1		4-33	1	1487202	5-13	12	1493909	13-23	7
1483999	11-22	4		4-34	18		5-15	12	1493913	13-29	22
	11-22	1	1484660	4-33	2	1488597	5-3			13-31	10
1484009	11-22	4	1484661	4-30	11		5-7		1494076	1-13	2

NUMERICAL INDEX (Continued)

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1494466	3-35		1497299	13-6	1	1502038	3-13	5	1510113	3-9	7
1494673	13-32	1	1497300	4-30	13	1502543	2-47	16	1510310	4-7	
1494692	13-32	1		4-33	1		2-49	11	1510311	4-7	
1494693	13-32	1	1497302	4-30	19	1502645	9-21	18	1510312	4-7	
1494782	3-37		1497303	13-34	1	1502741	2-47	20	1510313	4-7	
1494784	3-37	3	1497559	3-3	18		2-50	3	1510649	2-59	35
1494888	1-21	12		3-17	5		2-59	25	1511725	2-13	16
1495279	10-17	6	1498097	3-3	19	1502768	13-21	5	1511882	10-15	15
	11-22	8		3-17	21	1502769	13-21	1		12-11	3
1495347	11-12	2	1498419	4-31	25	1502770	13-21	2	1511883	10-15	15
1495359	11-12	2		4-33	9	1502771	13-21	25		11-19	16
1495485	3-33	5	1498422	4-33	10	1502772	13-21	25		12-7	4
1495665	2-9	35	1498474	4-31	25	1503334	4-27	41		12-11	3
1495666	2-9	18		4-33	9	1503453	5-11	10		12-31	16
1496788	4-31	22	1498492	4-30	14	1503620	13-27	7		13-45	6
	4-31	28	1498493	4-30	14	1504083	13-21	25		13-49	2
	4-33	8	1498496	4-31	25	1504084	13-21	26		13-53	2
	4-33	11		4-33	9	1504085	13-29	13		13-59	2
1496789	13-35	1	1498807	5-3	33	1504086	13-29	13	1511884	10-15	15
1496790	4-31	27		5-11	3	1504087	13-31	4		12-11	3
	4-33	7	1499101	13-49	22	1504088	13-31	4	1512403	2-13	18
	4-33	12	1499102	13-49	21	1504089	13-29	13	1513907	1-7	13
	13-35	1	1499103	13-45	22		13-31	4	1514215	2-47	11
1496791	4-31	22	1499104	13-45	21	1504094	13-29	13		2-49	21
	4-31	28	1499105	13-53	28	1504095	13-31	4		4-15	44
	4-33	8	1499106	13-53	29	1504256	2-9	21		4-20	54
	4-33	11	1499107	13-59	27	1504380	2-9	19	1514267	2-53	19
1496884	4-29	1	1499108	13-59	28	1505287	13-17	6	1514268	2-55	21
1496885	4-29	1	1499369	2-9	13		13-32	1	1514429	2-47	5
1496886	4-30	19	1499373	2-9	36	1506889	10-17	1		3-45	19
1496924	4-30	17	1499514	2-13	10	1506894	10-17	3	1514915	2-59	36
1496925	4-30	17	1499886	8-4	53	1506895	10-17	1	1514961	2-56	46
1496926	4-30	17	1500439	2-13	2	1506900	10-17	3	1514963	2-55	44
1497228	4-30	17	1500744	10-3	2		10-17	1	1514964	2-56	45
1497259	4-31	24		10-5	2	1506901	10-17	1	1514965	2-56	47
1497262	4-30	10		10-15	2	1506903	10-17	1	1514968	2-53	13
	4-30	12		11-3	1	1506905	10-17	3	1514969	2-55	20
	4-30	16		11-7	1	1506906	10-17	3	1515680	5-13	8
	4-34	15		11-19	2	1506908	10-17	3		5-15	8
	4-34	16		12-7	2	1506930	10-17	1	1515763	4-3	41
	4-34	17		12-11	2	1506932	10-17	2	1515805	2-43	10
1497265	4-30	10		12-31	2	1506937	10-17	2	1516677	2-34	3
	4-30	12	1500784	1-32	5	1506942	10-17	2	1516930	2-25	22
	4-30	16		1-34	5	1506943	10-17	2	1517939	8-3	41
1497288	4-31	21	1500786	1-33	4	1506945	10-17	2	1518858	1-7	13
	13-6	1		1-34	5	1506972	10-17	2	1519441	1-33	1
1497290	4-30	18	1500884	2-53	18	1506977	10-17	3	1519442	1-33	1
	13-34	1	1501259	1-27	26	1507923	7-5	26	1520927	13-17	2
1497293	4-30	20	1501409	7-13	9	1507960	2-43	6	1523472	4-11	4
1497294	4-30	13	1501994	2-47	12	1508246	3-29	18		4-11	5

NUMERICAL INDEX (Continued)

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1523551	5-13	9		4-15	14		8-13		1544739	1-23	12
	5-15	9		4-19	14	1536794	6-3	11	1544743	1-23	14
1523715	1-21	1	1527881	2-11	7	1536880	3-45	12	1544792	3-21	24
1523718	1-21	1		4-15	20	1537216	2-27	7	1544793	3-21	7
1523732	1-32	3	1527883	3-9	4	1537224	2-21	21	1544824	3-21	2
	1-33	3	1527884	3-14	2	1537238	2-41	8	1544971	7-9	10
	1-34	3	1528410	6-3	7	1537258	2-23	15	1544972	7-9	35
1523734	1-32	2	1528427	6-3	2		2-23	27	1545154	4-15	31
	1-33	2	1528484	6-3	6	1537265	2-37	8		4-19	40
	1-34	2	1528778	3-9	18	1537297	2-33	13	1545785	13-37	5
1523737	1-32	6		4-15	12	1537498	2-13	31		13-39	5
	1-34	6		4-19	12	1539589	8-13			13-41	5
1523739	1-32	8	1529010	2-50	2	1539590	8-13		1545786	13-37	4
	1-34	8		2-59	26	1539747	3-45	18		13-39	4
1523741	1-33	5	1529238	1-7	19	1539751	2-5	7		13-41	4
	1-34	6	1529708	6-3		1541242	11-22	7	1545857	2-47	4
1523742	1-33	6	1531579	1-7	8	1541243	11-22	7		2-49	10
	1-34	8	1531582	1-7	1	1541640	11-15	3	1545871	5-13	12
1523798	2-19	1	1531750	2-9	22	1541805	1-23	10		5-15	12
	2-21		1531982	13-9	5	1543530	13-37	11	1546283	2-49	24
	2-23			13-11	1		13-39	11	1546285	2-49	23
	2-25			13-21	3		13-41	12	1546322	13-23	20
	2-27			13-23	15	1543536	3-3	8	1546397	3-29	12
	2-29		1532537	2-15	2		3-17	31	1546398	3-29	13
	2-31		1532620	2-15	3	1543615	9-3	12	1546399	3-29	22
	2-33		1532621	2-15	4	1543616	7-3	2	1548231	9-11	2
	2-34		1532638	13-51	9		9-7	6		9-13	2
	2-37			13-61	10		9-9	5	1548232	9-11	3
	2-38		1532639	13-51	9	1543617	9-7	7		9-13	3
	2-41			13-61	10		9-9	6	1548244	2-47	3
	2-43		1532640	13-47	4	1543776	2-53			2-49	3
1523953	5-13	3		13-55	4		2-55		1548432	4-15	48
	5-15	3	1532643	13-47	4		2-59			4-20	58
1524525	4-3	38		13-57	4		2-63		1548520	2-47	1
1525248	1-9	10	1532655	8-13	3		2-65		1549372	2-5	12
1526082	13-13	1	1532656	8-13	3		2-67			2-6	49
1527274	4-27	42	1532691	9-21	4	1543927	9-11	32	1549399	4-9	11
1527305	4-27	43	1532748	13-67	8		9-15		1549449	2-6	56
1527470	1-17	8	1533587	6-7	2	1543928	9-13	32	1550643	7-3	13
1527516	13-37	2		6-9	2		9-15			9-7	19
	13-39	2	1533797	4-7	2	1543933	3-9	10		9-9	19
	13-41	2	1533858	4-7	1		3-13	13	1550926	9-7	35
1527523	4-27	18	1533859	4-7	1	1543978	2-53			9-9	37
1527876	4-15	42	1533891	4-9	4		2-55		1550927	9-7	36
	4-19	52	1534417	2-69	7		2-59			9-9	38
1527877	2-47	7	1535414	2-19	24		2-63		1550942	9-7	22
	3-45	17	1536272	4-15	16		2-65			9-9	22
1527879	4-15	41	1536684	6-3	11	1544024	3-13	14	1551160	9-3	11
	4-19	51	1536722	6-3		1544207	9-11	1	1551260	3-9	5
1527880	2-47	15	1536792	6-3	9		9-13	1	1551401	3-7	10
	2-49	12		8-13		1544555	2-69	1	1551402	3-7	8
	3-13	12	1536793	6-3	10	1544677	4-19	17	1551403	3-7	1

NUMERICAL INDEX (Continued)

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1551405	3-9	11	1555078	2-23	11	1555438	2-25	20	1558160	3-25	1
1551410	2-69	4	1555079	2-23	13	1555447	2-25	23	1558161	3-25	2
1551452	3-13	16	1555080	2-23	14	1555448	2-25	25		3-27	11
1551680	2-49	15		2-23	26	1555449	2-25	26	1558163	3-25	4
1551850	4-9	15	1555081	2-23	16	1555451	2-25	28	1558164	3-25	5
1551997	9-11	21	1555082	2-23	17	1555452	2-33	24	1558165	3-25	6
	9-13	21	1555083	2-23	18	1555453	2-38		1558166	3-25	7
1552141	2-59	3	1555084	2-25		1555454	2-38	1	1558167	3-25	8
1552652	2-19	23	1555085	2-25	1	1555455	2-38	2	1558168	3-25	9
1552673	3-13	19	1555086	2-25	2	1555456	2-38	4		3-27	7
1553084	13-23	4	1555088	2-25	3	1555457	2-37	1		3-27	10
1553420	2-13	36	1555090	2-25	8	1555459	2-37	5	1558169	3-25	10
1553495	8-3	1	1555091	2-25	7	1555460	2-37	6	1558170	3-25	11
1554719	3-9	13	1555092	2-25	4	1555461	2-37	7	1558171	3-25	12
1554974	2-21	1	1555094	2-25	9	1555464	2-31	7	1558172	3-25	14
1554975	2-21	5	1555095	2-25	10	1555466	2-31	7	1558173	3-25	3
1554976	2-21	13	1555096	2-25	11	1555467	2-31	8	1558175	3-25	16
1554977	2-21	8	1555098	2-33	25	1555468	2-31	7	1558176	3-25	17
1554978	2-21	14	1555101	2-41	7	1555471	2-31	12		3-27	8
1554979	2-21	11	1555102	2-41	9	1555472	2-31	13	1558177	3-25	18
1554980	2-21	7	1555103	2-41	11	1555473	2-31	14		3-31	5
1554981	2-21	6	1555104	2-41	12	1555474	2-31	1	1558178	3-25	19
1554982	2-21	15	1555105	2-41	16	1555477	2-31	3	1558187	3-27	1
1554983	2-21	18	1555106	2-41	17	1555478	2-31	4	1558188	3-27	2
1554984	2-21	17	1555107	2-41	18	1555482	2-33	1	1558189	3-27	3
	2-37	3	1555108	2-41	19	1555483	2-33	3	1558190	3-27	4
1554985	2-27	1	1555109	2-41	22	1555484	2-33	4	1558191	3-27	5
1554986	2-27	2	1555110	2-41	21	1555485	2-33	7	1558192	3-27	6
1554987	2-27	3	1555262	2-41	2	1555486	2-33	18	1558193	3-27	9
1554988	2-27	2	1555413	2-41	3	1555487	2-33	19	1558194	3-27	12
1554989	2-27	2	1555414	2-41	5	1555488	2-33	20	1558195	3-23	6
1554990	2-27	2	1555415	2-41	6	1555489	2-43	1		3-31	11
1554991	2-27	3	1555419	2-23	19	1555490	2-29	23	1558196	3-23	8
1554992	2-27	3	1555420	2-23	20	1555491	2-34	1	1558198	3-23	9
1554993	2-27	3	1555421	2-21	22	1555492	2-34	2	1558202	3-23	2
1554994	2-27	8	1555422	2-29	6	1555502	2-41	25	1558204	3-25	15
1554995	2-27	12	1555423	2-29	8	1555505	2-23	21	1558205	3-23	3
1555063	2-27	14	1555424	2-29	12	1555506	2-23	22	1558206	3-23	5
1555064	2-27	15	1555425	2-29	13	1555686	2-21	24	1558209	3-31	1
1555065	2-27	13	1555426	2-29	16		2-23	28	1558210	3-31	2
1555066	2-27	13	1555427	2-29	19		2-25	29	1558211	3-31	3
1555067	2-27	13	1555428	2-29	17	1555689	2-23	23	1558432	3-31	4
1555068	2-27	13	1555429	2-29	20	1555729	2-29	25	1558433	3-31	7
1555069	2-27	13	1555430	2-25	12		2-33	28	1558434	3-31	9
1555070	2-27	13	1555431	2-25	13		2-37	10	1558435	3-31	6
1555071	2-21	20	1555432	2-25	14		2-38	8	1558436	3-31	13
1555072	2-23	1		2-25	27	1555782	4-19	20	1558437	3-31	12
1555073	2-23	4	1555433	2-25	15	1556726	3-13	11	1558543	3-23	4
1555074	2-23	5	1555434	2-25	16	1556819	3-13	10	1558807	2-53	11
1555075	2-23	8	1555435	2-25	17	1557629	3-7	9	1559058	3-7	17
1555076	2-23	10	1555436	2-25	18	1558060	4-9	6		3-13	1

NUMERICAL INDEX (Continued)

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1559061	3-13	1	2022538	4-23	22		13-11	10	2036277	12-24	15
1559422	3-7	2	2027337	3-39	1		13-19	10	2036278	12-24	16
1559556	2-67	1		3-45	1	2035621	3-3	3	2036279	11-16	18
1559557	2-67	2	2028521	7-16	2		3-5			12-28	18
1559558	2-67	3	2029170	2-9	6	2035667	10-15		2036280	12-28	19
1559559	2-67	4	2032230	7-15	5	2035669	10-15		2036282	11-15	3
1559560	2-67	5	2033243	10-11	3	2035672	10-15			12-28	3
1559561	2-67	6		12-24	3	2035678	7-7	13	2036283	12-28	3
1559562	2-67	7	2033281	10-11	3	2035784	10-12	14	2036386	12-24	
1559563	2-67	8		10-11	3	2035785	10-12	15	2036387	12-24	
1559564	2-67	9	2033294	10-11	6	2035786	10-12	16	2036388	12-24	
1559565	2-67	11	2033299	10-11	3	2035787	10-7	2	2036389	12-24	
1559566	2-67	12		12-24	3		10-11	5	2036390	12-24	
1559567	2-67	14	2034269	10-12	7		11-12	10	2036392	12-24	
1559568	2-67	15		12-24	5		12-24	12	2036393	12-24	
1559569	2-67	16	2034274	11-15	8	2035791	10-17	10	2036406	12-24	
1559570	2-67	13		12-28	8		11-22	13	2036407	12-24	
1559695	2-59	4	2034459	1-27	30		12-35	15	2036408	12-24	
	4-21		2034906	1-23	3	2035792	12-31		2036422	12-28	
1559922	4-21	3	2035020	6-7	3	2035794	12-31		2036440	11-15	
1559923	4-21	5		6-7	3	2035796	12-31			12-28	
1559924	4-21	6	2035021	6-7	3	2035797	12-31		2036441	12-28	
1559925	4-21	7	2035022	6-9	3	2035798	1-9	3	2036442	11-15	
1559969	9-15	4	2035023	6-9	3	2035800	1-21	2		12-28	
1559970	9-15	14	2035024	13-70	3	2035804	10-11		2036443	12-28	
1559971	9-15	24	2035025	13-70	3	2035805	10-11		2036444	11-15	
1559972	9-15	34	2035044	7-16	8	2035806	10-11		2036475	3-3	9
1559973	9-15	3	2035137	7-9	5	2035811	10-11			3-17	2
1559974	9-15	38		7-13		2035812	10-11		2036476	9-11	20
1559975	9-15	2	2035200	12-24	11	2035813	10-11		2036477	9-13	20
1559976	9-15	39	2035312	9-21	1	2035836	3-41	18	2036478	12-16	2
1559977	9-15	41		9-22			3-45	10		12-20	6
1559978	9-15	42	2035314	9-21	1	2035980	1-9	4		12-28	17
1559986	9-15	40		9-22		2035998	7-16	2	2036479	12-24	14
1561870	3-23	10	2035315	9-22	1	2036142	1-7	24	2036541	13-11	9
	3-31	14	2035316	9-22	2	2036143	1-7	14		13-13	9
1563048	2-19	2	2035318	9-22	2	2036181	10-11	1		13-32	2
1563548	2-19	5	2035322	2-9	5	2036182	10-11	1		13-34	
1563921	2-41	1	2035355	2-6	52	2036183	10-11	1	2036542	4-3	36
1564046	2-41	23	2035359	2-6	51	2036187	10-11	1	2036544	13-9	3
1565899	3-41	17	2035568	6-3	14	2036188	10-11	1		13-33	3
2004005	4-16	53	2035569	6-3	15	2036189	10-11	1		13-35	
	4-20	63	2035581	4-29	5	2036195	10-11	2	2036547	9-22	6
	8-4	49		4-29	5	2036196	10-11	2	2036756	11-7	11
	8-4	49		4-29	5	2036197	10-11	2		12-20	10
	13-41	6		4-29	5	2036201	10-11	2	2036778	12-20	1
2020517	1-27	2		4-29	6	2036202	10-11	2	2036856	10-7	2
2021207	1-7	9		4-29	6	2036203	10-11	2		10-11	5
2021395	1-17	4		4-29	7	2036212	10-11	7		12-24	12
2022532	4-23	23		4-30	7		12-24	5	2036857	12-16	2
2022534	4-23	11		4-30	9	2036213	10-12	7		12-20	6
2022535	4-23	19		13-9	12		10-12	7		12-28	17

NUMERICAL INDEX (Continued)

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2036866	1-7	15	2037845	12-24	2	2038000	2-15	1		12-16	32
2036875	1-9	17	2037846	12-24	2	2038201	9-3	1	2047053	2-13	4
2036924	13-5	7	2037856	12-24	2		9-19		2047717	3-41	20
	13-6		2037857	12-24	2	2038202	9-3	1		3-45	29
2037112	3-39	16	2037858	12-24	2		9-19		2047829	7-13	8
	3-45	20	2037859	12-24	2	2038289	11-12		2048095	2-9	26
2037113	2-15	1	2037860	12-24	2	2038314	11-12		2050576	13-37	14
2037114	2-13	15	2037868	11-15	1	2038318	11-12			13-39	14
	2-15	1		12-28	1	2038339	11-12		2052191	3-41	18
2037323	8-9	14	2037870	12-28	1	2038359	11-12			3-45	10
	8-13	13	2037871	12-28	1	2038365	11-12		2052196	8-4	59
2037324	8-13	17	2037872	11-15	1	2038370	11-12		2053467	1-27	18
2037325	8-13	18		12-28	1	2038375	11-12		2058020	12-24	1
2037326	8-13	20	2037873	12-28	1	2038415	11-12		2058031	12-24	1
2037327	8-9	4	2037875	11-15	1	2038421	11-12		2058697	10-11	
2037328	8-9	4	2037876	12-24	1	2038427	11-12		2058719	10-11	
2037329	8-9	5	2037877	12-24	1	2038438	11-12		2058730	10-11	
2037330	8-9	5	2037878	12-24	1	2038457	11-12		2058739	10-11	
2037331	8-9	6	2037879	12-24	1	2038463	11-12		2058758	12-24	
2037332	8-9	6	2037880	12-24	1	2038469	11-12		2058773	12-24	
2037333	8-9	7	2037882	12-24	1	2038479	11-12		2058776	12-24	
2037334	8-9	8	2037883	12-24	1	2038558	11-19		2058786	12-24	
2037335	8-9	8	2037884	12-24	1	2038564	11-19		2058788	12-28	
2037336	8-9	9	2037885	12-24	1	2038565	11-19		2058799	11-15	
2037337	8-9	9	2037886	12-24	1	2038594	13-53		2058801	12-28	
2037338	8-9	10	2037894	9-7	30	2038595	13-55		2058946	10-11	1
2037339	8-9	11		9-9	32	2038596	13-53		2058970	10-11	2
2037340	8-9	12	2037906	2-47	2	2038597	13-59		2058995	10-11	1
2037341	8-9	15		2-49	1	2038598	13-59		2059006	10-11	2
2037342	8-9	16		8-3	47	2038599	13-57		2059016	10-11	1
2037343	8-9	17	2037907	8-3	47	2038600	13-61		2059027	10-11	2
2037344	8-9	21	2037943	13-45	1	2038601	13-61		2059037	10-11	1
2037377	8-10	34		13-47		2038663	8-10	33	2059062	10-11	2
2037515	8-13	4	2037944	13-45	1	2038675	11-12	8	2059079	12-24	1
2037516	8-13	4		13-47		2038676	11-12	17	2059094	12-24	1
2037517	8-13	5	2037945	13-49	1	2038679	11-12	18	2059097	12-24	2
2037518	8-13	5		13-51		2038981	11-16	17	2059112	12-24	2
2037519	8-13	12	2037946	13-49	1	2038982	11-16	17	2059115	12-24	2
2037707	12-31			13-51		2039256	4-15	24	2059126	12-24	2
2037740	9-3	15	2037947	13-55			4-19	33	2059128	12-28	1
2037760	8-3	23	2037948	13-57		2040751	13-41	15	2059140	11-15	1
2037833	11-15	2	2037949	13-61		2040752	13-37	13	2059142	12-28	1
	12-28	2	2037950	13-61			13-39	13	2059145	12-28	2
2037835	12-28	2	2037951	13-45			13-41	14	2059157	11-15	2
2037836	12-28	2	2037952	13-45		2041965	11-12	10	2059159	12-28	2
2037837	11-15	2	2037953	13-49		2041967	8-9	28	2059309	4-3	26
	12-28	2	2037954	13-49		2043404	2-11	14	2059675	2-6	53
2037838	12-28	2	2037955	13-53		2044372	9-22	11	2059677	2-6	54
2037840	11-15	2	2037956	13-53		2044948	4-9	7	2059789	4-3	1
2037841	12-24	2	2037957	13-59		2046871	9-7	42	2060461	3-3	1
2037842	12-24	2	2037958	13-59			9-9	43	2061653	3-17	4

NUMERICAL INDEX (Continued)

PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM	PART NO.	PG	ITEM
2061656	3-17	4	2062129	12-28		2063071	2-47	21	2066453	2-49	4
2062074	11-15	2	2062135	11-15		2063109	2-49	2	2066454	2-49	7
	12-28	2	2062212	4-15	25	2065703	3-45	13	2066720	2-47	24
2062076	12-28	2		4-19	34	2065704	3-45	13	2066721	3-23	7
2062077	12-28	2		4-27		2065887	11-15	1	2066940	3-17	24
2062079	11-15	2	2062220	4-9	14		12-28	1	2067334	4-11	15
	12-28	2	2062321	3-39	11	2065888	11-15	1		4-15	1
2062080	12-28	2		3-41	15		12-28	1		4-19	1
2062081	12-28	2	2062384	3-17	1	2065889	11-16	19	2067390	2-47	23
2062084	11-15	2		3-19		2065967	2-49	6	2067573	2-47	25
2062093	12-28	2	2062696	2-13	35	2066005	12-28	1		2-49	18
2062099	11-15	2	2062748	11-15		2066006	12-28	1	2068082	2-47	22
2062113	12-28			12-28		2066140	2-49	5	2068496	4-12	39
2062114	12-28		2063000	4-3	37	2066423	11-15	1		4-19	24
2062115	11-15			4-29		2066424	11-15	1		4-37	
	12-28			4-33		2066437	12-24	11	2309799	1-27	11
2062116	12-28		2063002	4-3	37	2066450	12-28	1			
2062117	12-28			4-29		2066451	12-28	1			
2062120	11-15			4-33		2066452	12-28	1			

