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PARTS MANUAL

CHALLENGER H45-50-55-60-65XM

(D177)

CUSTOMER EDITION

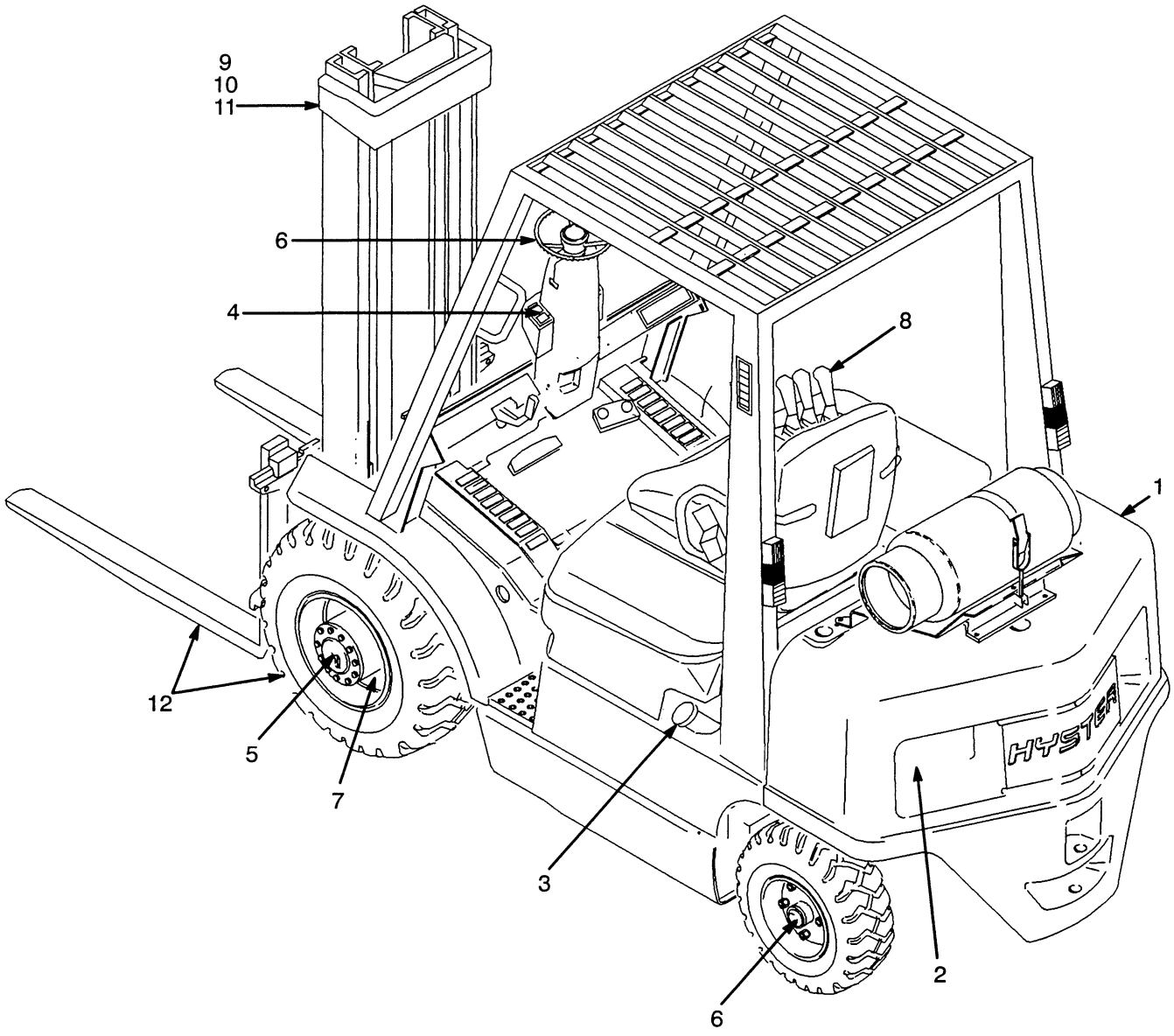
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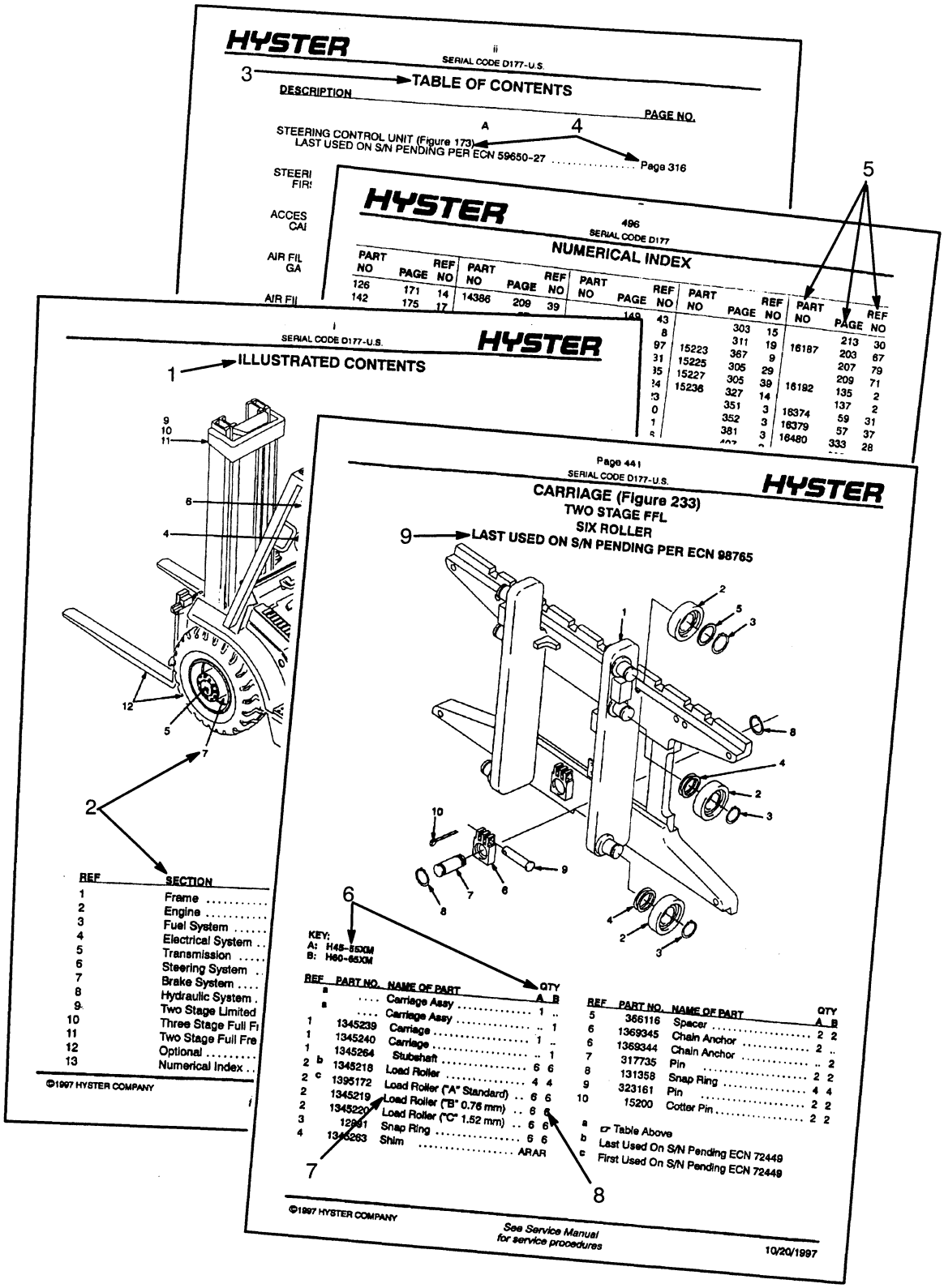
NOTES

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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, symbols and footnotes.



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HOW TO FIND THE DESIRED PART NUMBER

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

1. Determine the function and application of the part required. Turn to the illustrated index page immediately behind the front cover. Choose the general area of reference most likely to include the part.
2. Find the page number for the reference number you choose and turn to that page. Use the division index 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 Master Index immediately following the Illustrated Index.
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 at the back of the manual to find the part number. Turn to the figure listed and locate the part as indicated by the reference number.

GENERAL:

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

6. Keys are used to show effective serial numbers for two or more similar assemblies, RH and LH assembly parts, etc. Select the appropriate key, "A", "B", "C" or "D" and the corresponding quantity column to find the required parts.
7. Indented descriptions under "Name of Part" are used to indicate assemblies and sub-parts of assemblies. In the example, *LOAD ROLLER* (Item 7) is a subpart of the major assembly *CARRIAGE*.
8. Quantities shown are for one assembly. The quantities of the subpart *LOAD ROLLER* are indicated as six and six. This means six per *CARRIAGE* assembly.
9. Engineering change notice (ECN) numbers for pending serial numbers are shown to allow for the inclusion of the most current parts information. Contact your local dealer for Hyster lift trucks for serial number information listed by ECN number.
10. Additional fork lengths are available. Contact your dealer for Hyster lift trucks.

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

X OOO X OOOO X
(1) (2) (3) (4) (5)

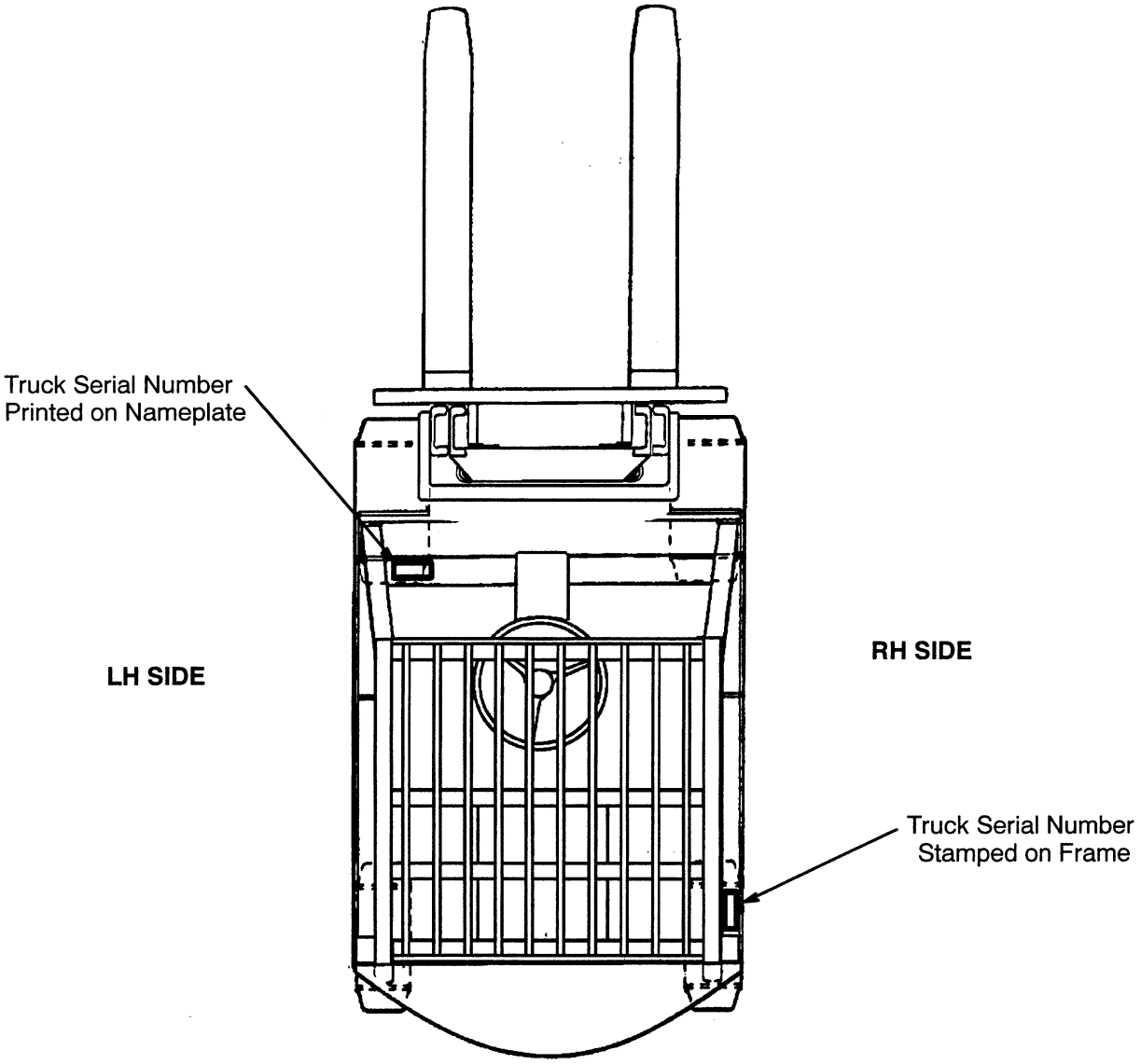
(1) & (2) The first letter and three numbers indicate the truck model code.

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

(4) The four or five digit number series indicates the serial number of the truck.

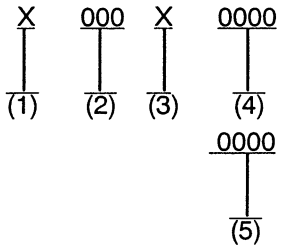
(5) The final letter indicates the year of manufacture starting with "A" in 1957 and 1980. The letters "I", "O", and "Q" will not be used.

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



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) & (2) The first letter and number indicates the mast model code.

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

(4) The four or five digit number series indicates the serial number of the mast.

(5) Lift Height in Millimeters stamped just below the serial number

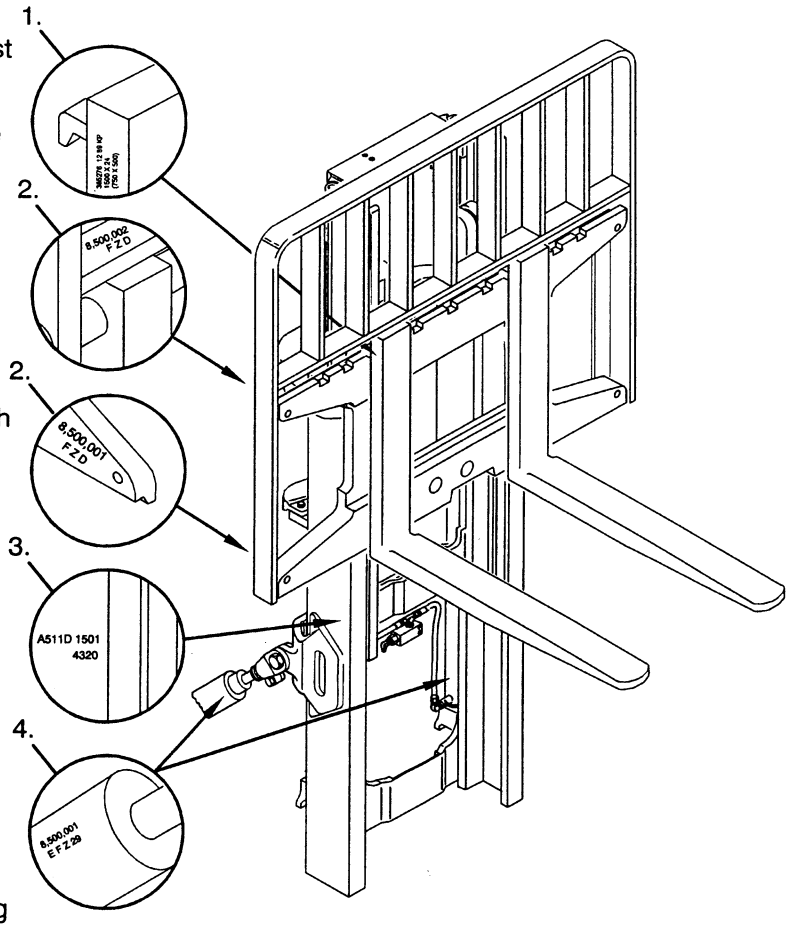
Mast Group Identification consists of mast unit code (1) & (2) plus lift height (5).

For pending serial 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 model code, a letter indicating the plant of manufacture, and a serial number. Underneath the serial number is a four digit number that indicates the total lift height for the mast 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.

IDENTIFICATION OF ATTACHMENT AND SIDE-SHIFT CARRIAGE SERIAL NUMBERS

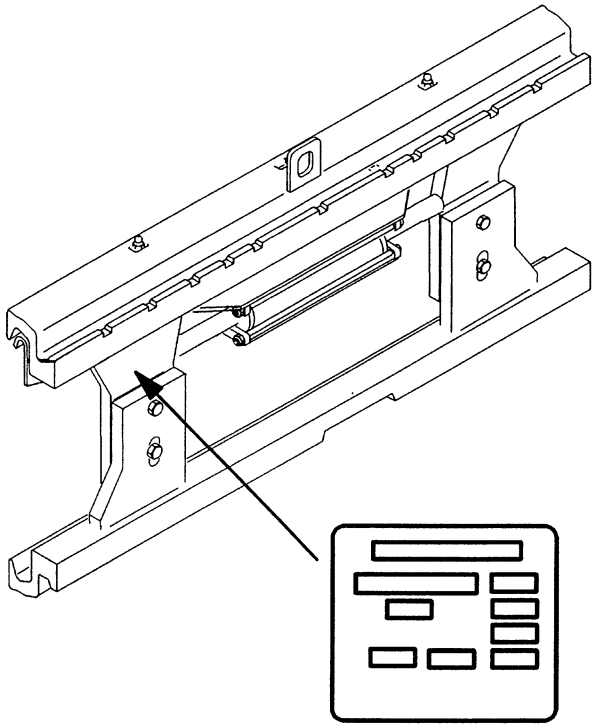
X 000 X 0000
(1) (2) (3) (4)

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

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

(4) The four or five digit number series indicates the serial number.

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



NAMEPLATE

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.

NOTES

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ABBREVIATIONS QUICK REFERENCE SHEET

Listed Below Are Abbreviations Used In Parts Manuals To Denote The Following Expressions:

2-STG	Two Stage Mast
3-STG	Three Stage Mast
4-STG	Four Stage Mast
Amp	Amperes
AR	As Required
BCS	Box Car Special
BWI	Brush Wear Indicator
CE	Commutator End
CRE	Corrosive Environment
dbA	Decibel "A" Scale
DE	Drive End
EC or ECH	Empty Container Handler Europe Empty Container Handler U.S.
EC-3 ECH-3	Empty Container Handler-3 High Stacking
EC-4 ECH-4	Empty Container Handler-4 High Stacking
EC-5 ECH-5	Empty Container Handler-5 High Stacking
EC-6 ECH-6	Empty Container Handler-6 High Stacking
EC-7 ECH-7	Empty Container Handler-7 High Stacking
ECM	Electronic Control Module
ECN	Engineering Change Notice
EEPROM	Electrically Erasable Programable Read Only Memory
EPROM	Electrically Programable Read Only Memory
FFL	Full Free Lift
FLT	Fork Lift Truck
FRE	Freezer Environment
in.	inches
LFL	Limited Free Lift
LPG	Liquified Petroleum Gas
MAP	Manifold Absolute Pressure
mm	millimeters
MSTS	Microprocessor Spark Timing System

NC	Normally Closed
NDE	Not Drive End (Commutator End)
NFL	No Free Lift
NI	Not Illustrated
NO	Normally Open
NPT	National Pipe Threads
NS	Neutral Start
O/S	Oversize
OC	Oil Clutch Transmission
PS	Powershift Transmission
PTO	Power Take Off
RPM	Revolutions per Minute
S/N	Serial Number
SFL	Semi-Free Lift
TMM	Truck Management Module
Type D	UL Type D, Diesel-Powered Safety Rating
Type DS	UL Type DS, Diesel-Powered Safety Rating
Type E	UL Type E, Battery Powered Safety Rating
Type EE	UL Type EE, Battery-Powered Safety Rating
Type ES	UL Type ES, Battery-Powered Safety Rating
Type G	UL Type G, Gasoline-Powered Safety Rating
Type GS	UL Type GS, Gasoline-Powered Safety Rating
Type LP	UL Type LP, LP Gas-Powered Safety Rating
Type LPS	UL Type LPS, LP Gas-Powered Safety Rating
U/S	Undersize
UL	Underwriters Laboratory
UK	United Kingdom
U.S.	United States
V	Volts
Xmsn	Transmission

PUBLICATIONS

Every new lift truck is provided with at least three publications. These publications are the PARTS MANUAL, the OPERATING MANUAL, and the section of the SERVICE MANUAL called Periodic Maintenance.

The OPERATING MANUAL must always be available on every lift truck. This manual has information that the operator must know for inspection and operation of the lift truck. The section Periodic Maintenance has a recommended schedule of service intervals and the procedures for servicing the lift truck.

These manuals, other publications and programs are available from your Dealer for Hyster Lift Trucks to help you operate and maintain your lift truck professionally. See the list that follows for reference to items for lift trucks in this PARTS MANUAL.

Operating Manual	**Hyster Part Number**
English	897740
Service Manual (complete)	897469
Parts Manual	897468

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FRAME

COUNTERWEIGHT (Figure 3) ..... Page 6

FRAME AND FLOORPLATES (Figure 1) ..... Page 2

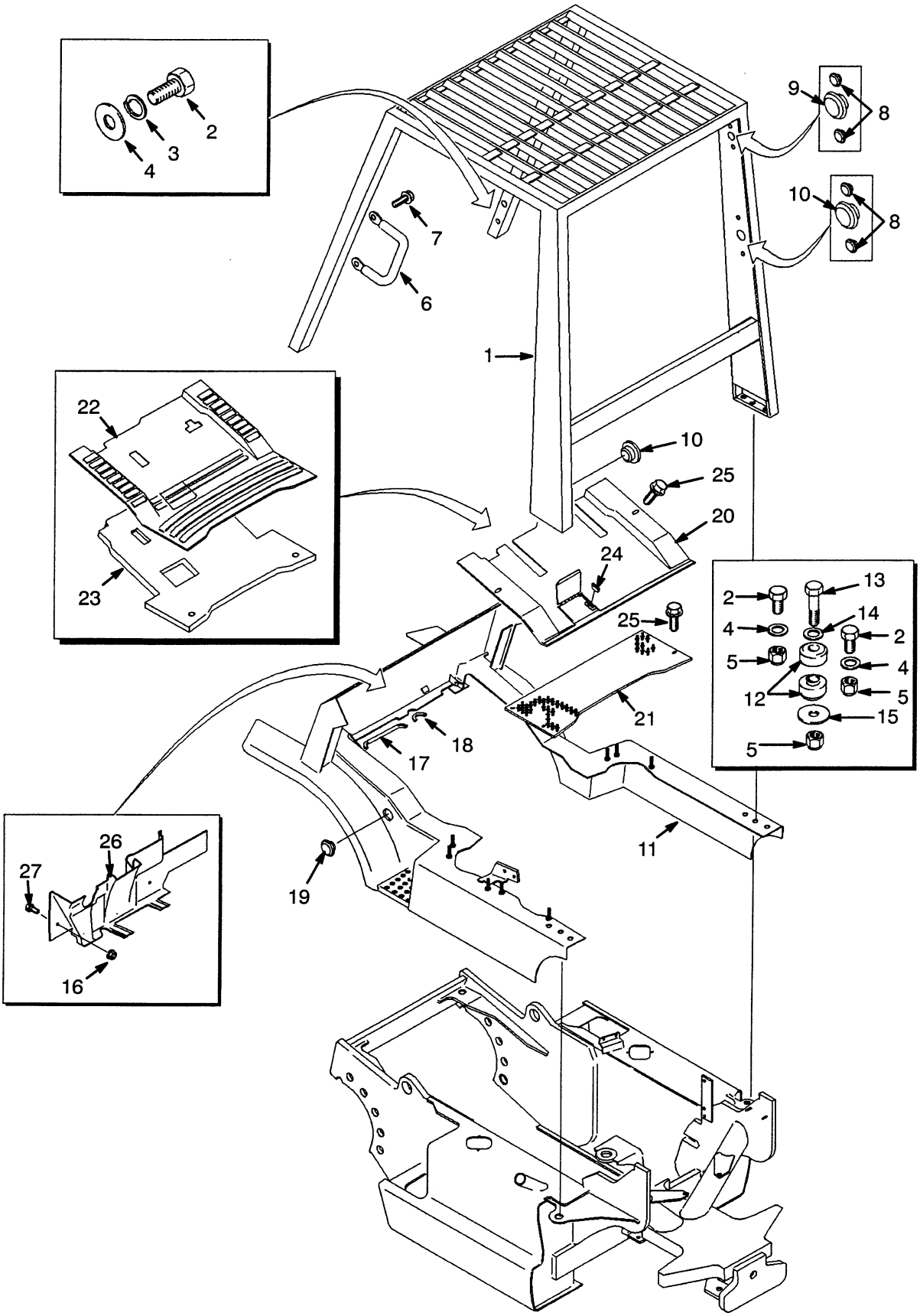
HOOD (Figure 2) ..... Page 4

LABELS ..... Page 10

SEAT (Figure 4) ..... Page 8

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FRAME AND FLOORPLATES (Figure 1)



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FRAME AND FLOORPLATES

REF		PART NO.	NAME OF PART	QTY
1		1337179	Overhead Guard	1
2		292528	Capscrew	8
3		292683	Lockwasher	4
4		296423	Washer	8
5		300937	Nut	8
6		1343647	Handle	1
7		329067	Screw	2
8		1363916	Plug	12
9		1363917	Plug	5
10		1363918	Plug	2
11		1360718	Operator Module	1
12	a	1352578	Mount	4
12	b	1383559	Mount	4
13	a	292535	Capscrew	4
13	b	292536	Capscrew	4
14		320161	Washer (Rear Only)	2
14	b	320161	Washer (Front Only)	2
15		300939	Washer	4
16		1359600	Nut	2
17		1347160	Trim	1
18		1347161	Trim	1
19		1350321	Plug	2

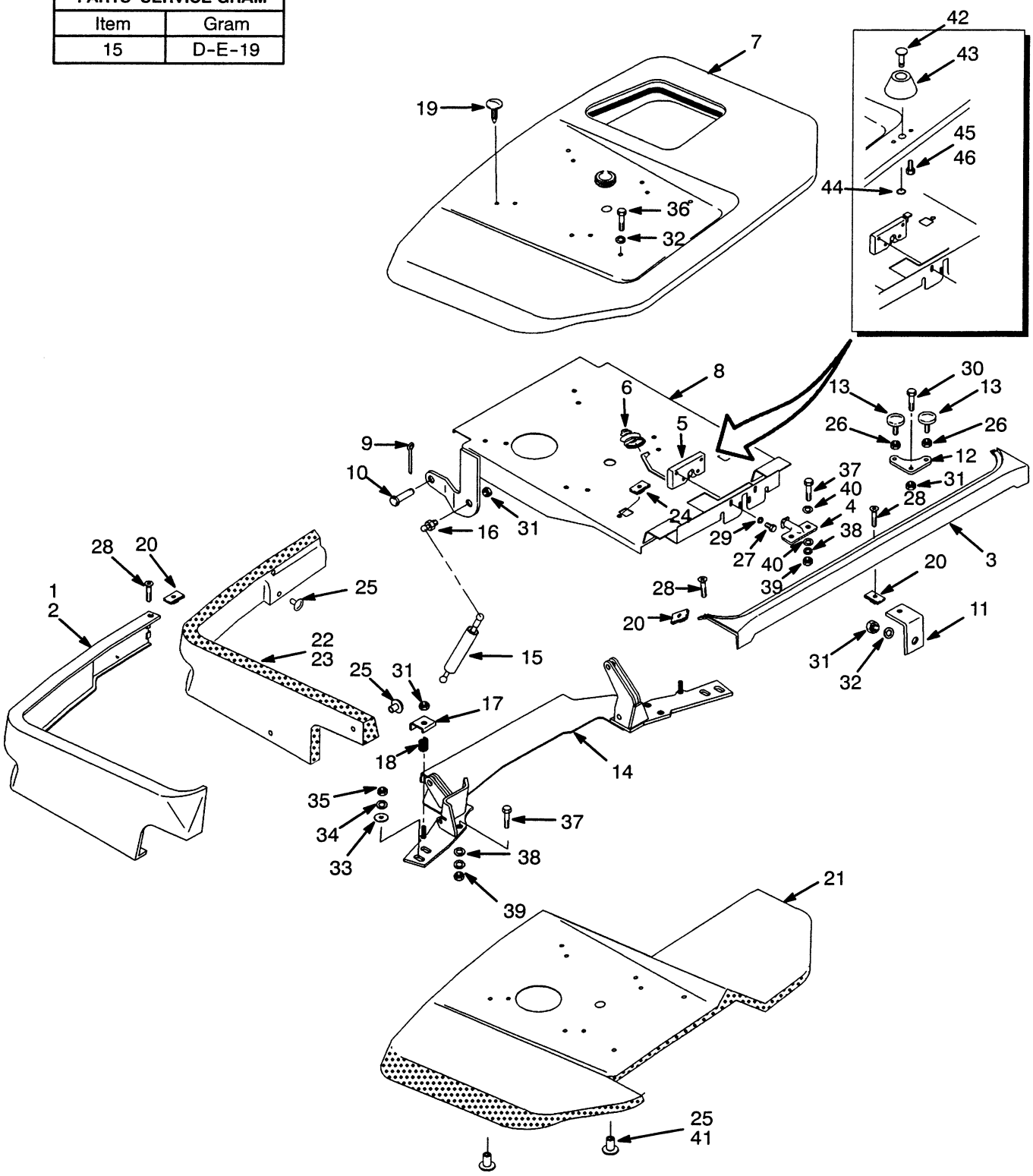
REF		PART NO.	NAME OF PART	QTY
20		1339777	Floorplate (Front)	1
21		1339773	Floorplate (Rear)	1
22		1354090	Floormat	1
23	h	1354109	Barrier	1
23	fg	1390611	Barrier	1
24		1339776	Magnet	1
25		1356100	Capscrew	4
26	c	1339719	Cover	1
26	d	1390614	Cover	1
26	e	1390607	Cover	1
27		292501	Capscrew	2

a Last Used On D177B-26743
b First Used On D177B-26744
c Last Used On D177B-32699
d Used On D177B-32700 Thru S/N D177B-36715
e First Used On S/N D177B-36716
f Diesel
g First Used On S/N D177B-38774
h Last Used On S/N D177B-38775

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HOOD (Figure 2)

PARTS-SERVICE GRAM	
Item	Gram
15	D-E-19



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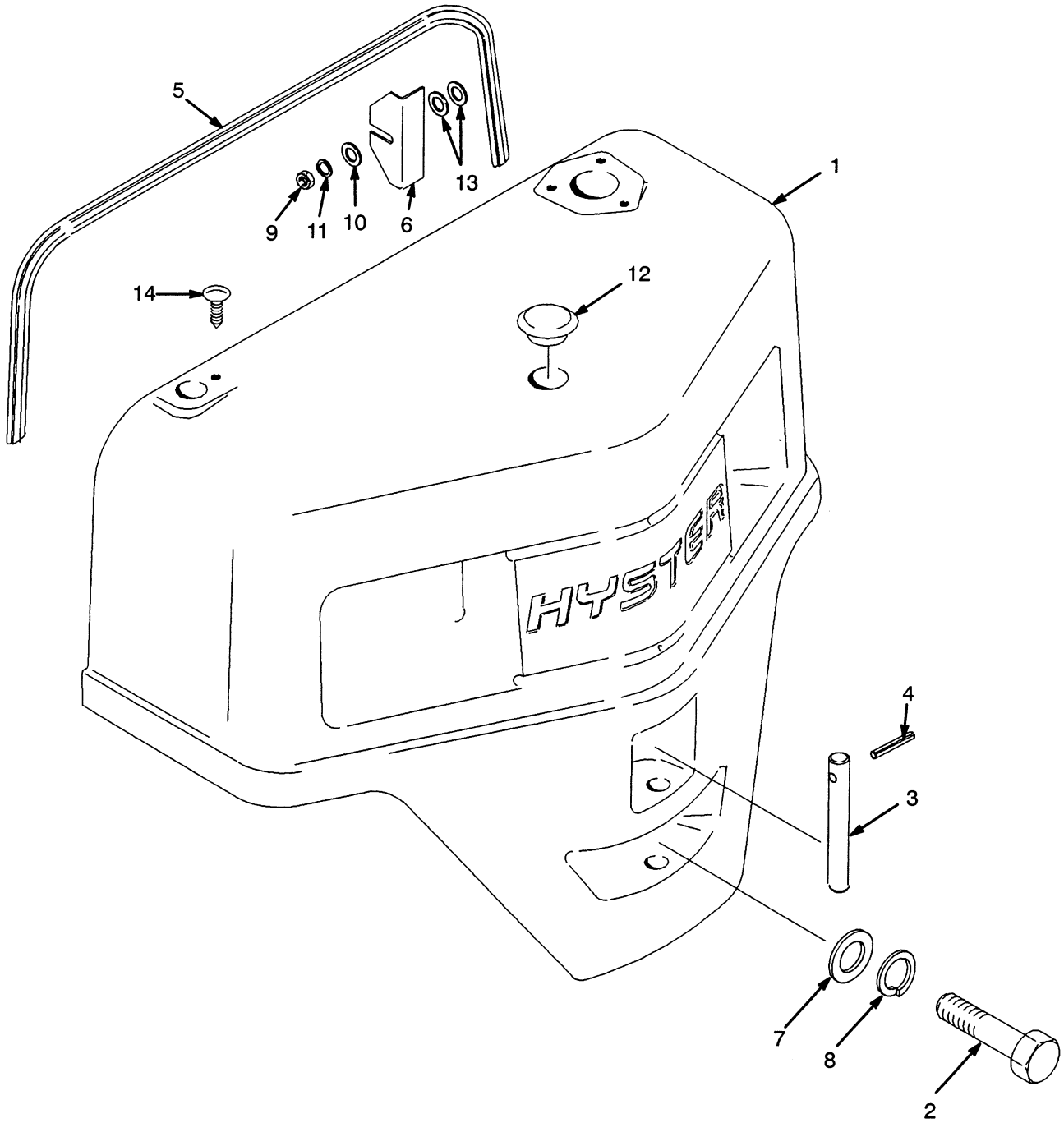
HOOD

REF		PART NO.	NAME OF PART	QTY
1	a	1343458	Lower Panel (LH)	1
1	b	1347096	Lower Panel (LH)	1
2		1343473	Lower Panel (RH)	1
3		1332670	Panel	1
4		1337148	Striker	1
5	f	1337181	Latch	1
5	g	1386216	Latch	1
6		1339786	Boot	1
7	f	1332667	Hood	1
7	g	1386217	Hood	1
8	d	1347175	Seat Pan	1
8	e	1375186	Seat Pan	1
8	k	1376672	Seat Pan	1
9		1362714	Pin	2
10		237947	Rod End Pin	2
11		1351008	Mounting Plate	1
12		1347110	Plate	2
13		1347088	Stop Screw	4
14		1339694	Crossmember	1
15		1377992	Gas Spring	2
16		1350285	Ball Stud	4
17		1347018	Clamp	6
18		1350241	Spring	6
19		1347045	Fastener	4
20		1350215	Nut	4
21		1352124	Liner	1
22	np	1352125	Liner, RH	1
23	np	1352126	Liner, LH	1
24		1350282	Nut	2
25	np	280644	Button	12
26		15001	Nut	4
27		199563	Capscrew	4
28		1339793	Screw	4
29		320156	Washer	4
30		136749	Capscrew	4
31		302400	Nut	13
32		320158	Washer	3
33		332755	Washer	4
34		292681	Lockwasher	4
35		239503	Nut	4
36		1354380	Capscrew	2
37		292515	Capscrew	6
38		292682	Lockwasher	6
39		136692	Nut	6
40		320159	Washer	4
41	c	1382306	Washer (Nylon)	2
41	g	15931	Washer	2
42	g	1386221	Button	2
43	g	1386220	Guard	2
44	g	12898	E-Ring	2
43		1386220	Guard	1
44		12898	E-Ring	1
45		227155	Screw	2
46		15931	Washer	2

- **a** Gasoline And Diesel
- **b** LPG
- **c** First Used On S/N D177B-18350
- **d** Last Used On S/N D177B-16153
- **e** Used On S/N D177B-16154 Thru D177B-18283
- **f** Last Used On S/N D177B-26598
- **g** First Used On S/N D177B-26599
- **k** First Used On S/N D177B-18284
- **n** Diesel
- **p** First Used On S/N D177B-38775

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COUNTERWEIGHT (Figure 3)



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COUNTERWEIGHT

REF NO.	NAME OF PART	TRUCK MODEL					QTY
		H45XM	H50XM	H55XM	H60XM	H65XM	
1	Counterweight (1623mm) Counterweight (1700mm)	1351014	1335752	1351016	1335754	 1335756	1 1
2	Capscrew (1623mm) Capscrew (1700mm)	292607	292612	292613	292616	 292613	1 1

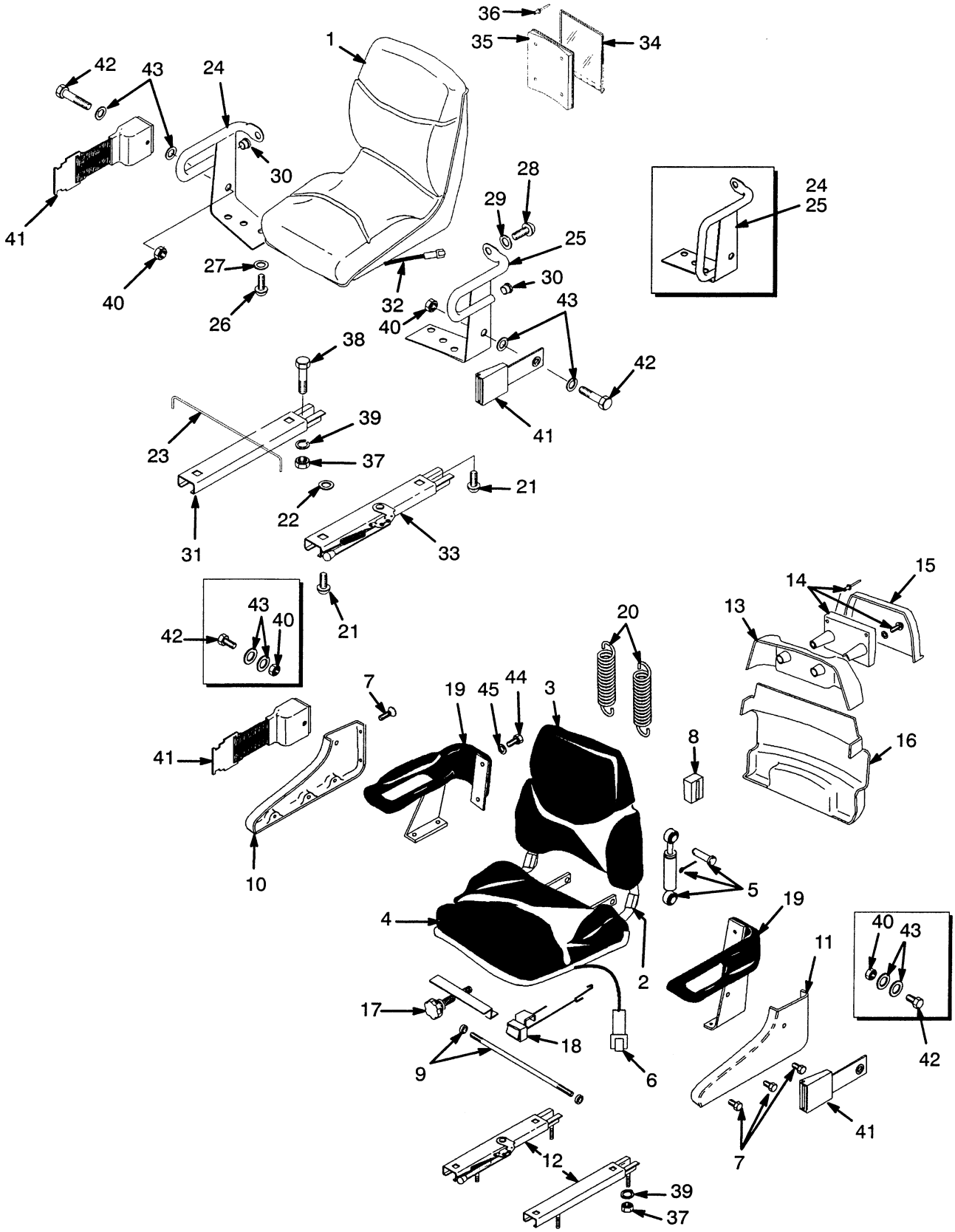
REF		PART NO.	NAME OF PART	QTY
1	a	.....	Counterweight	1
2	a	.....	Capscrew	1
3		1335761	Tow Pin	1
4		302492	Pin	1
5		1335762	Seal	1
6		1335763	Shim	AR
7		1375214	Washer	1
8		292689	Washer	1
9		239503	Nut	4

REF		PART NO.	NAME OF PART	QTY
10		320158	Washer	4
11		292681	Lockwasher	4
12		1350231	Plug	1
12	b	1350231	Plug	2
13		320159	Washer	8
14	b	1347045	Fastener	1

a ☞ Table Above
b Gasoline And Diesel

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SEAT (Figure 4)



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SEAT

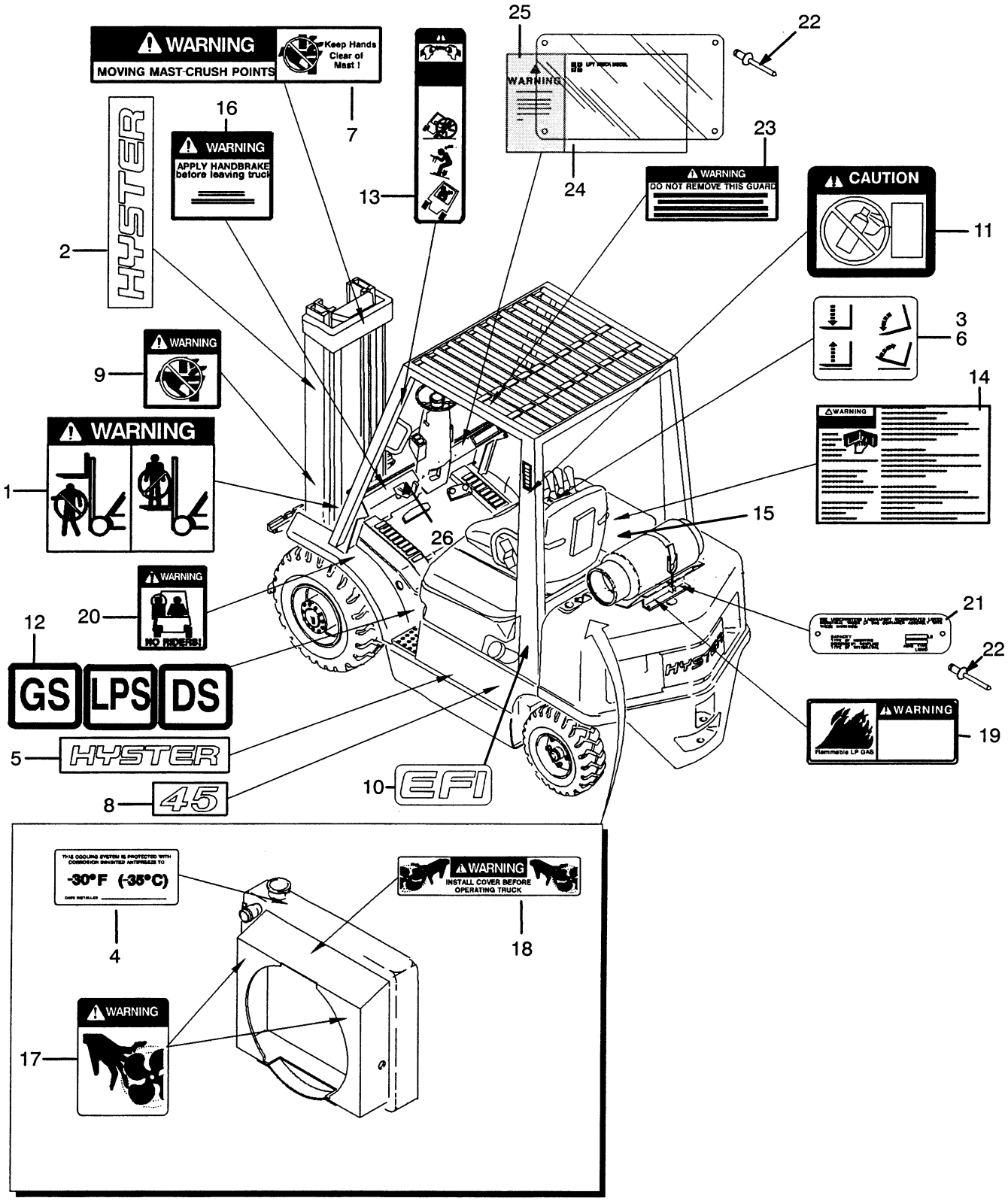
KEY:
A: Semi-Suspension
B: Standard

REF	PART NO.	NAME OF PART	QTY A	QTY B
1	1351431	Seat (Vinyl)	..	1
1	1351432	Seat (Fabric)	..	1
2	1376675	Semi-Suspension Seat (Vinyl)	1	..
2	1376676	Semi-Suspension Seat (Fabric)	1	..
3	1382111	Back Cushion (Vinyl)	1	..
3	1382113	Back Cushion (Fabric)	1	..
4	1382112	Seat Cushion (Vinyl)	1	..
4	1382114	Seat Cushion (Fabric)	1	..
5	1362049	Shock Absorber	1	..
6	1354140	Switch Assembly	1	..
6	1330409	Connector	1	..
6	1330414	Lock	1	..
6	1330433	Pin	2	..
7	1362065	Cover Hardware Kit	4	..
8	1362052	Slider Block	2	..
9	1362053	Shaft Kit	1	..
10	1392496	Cover (RH)	1	..
11	1392495	Cover (LH)	1	..
12	1459173	Seat Rail	1	..
13	1374188	Cover	1	..
14	1362058	Holder	1	..
15	1374190	Cover	1	..
16	1360872	Rear Cover	1	..
17	1362061	Knob Kit	1	..
18	1362062	Tape Kit	1	..
19	1362063	Hip Restraint (LH)	1	..
19	1362064	Hip Restraint (RH)	1	..
20	1367137	Spring Kit	1	..
21	364914	Capscrew	..	4
22	221733	Washer	..	2
23	1300107	Rod	..	1
24 a	1306585	Restraint (RH)	..	1
24 b	364807	Restraint (RH)	..	1
25 a	1306588	Restraint (LH)	..	1
25 b	364808	Restraint (LH)	..	1
26	18727	Capscrew	..	4
27	18515	Washer	..	4
28	379197	Capscrew	..	2
29	379198	Washer	..	2
30	364854	Plug	..	2
31	383116	Rail, RH	..	1
32	1354140	Switch	..	1
33	335553	Rail, LH	..	1
34	335991	Information Cover	..	1
35	335988	Information Base	..	1
36	222029	Rivet	..	4
37	145639	Locknut	4	4
38	18498	Capscrew (Front)	..	2
38	18496	Capscrew (Rear)	..	2
39	15175	Washer	4	4
40	379698	Nut	2	2
41 a	1337800	Seat Belt	1	1
41 b	1374750	Seat Belt	1	1
42	379199	Capscrew	2	2
43	379697	Washer	4	4
44	1367148	Bolt	8	..
45	1367154	Washer	8	..

a Last Used On S/N D177B-18419
b First Used On S/N D177B-18420

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LABELS

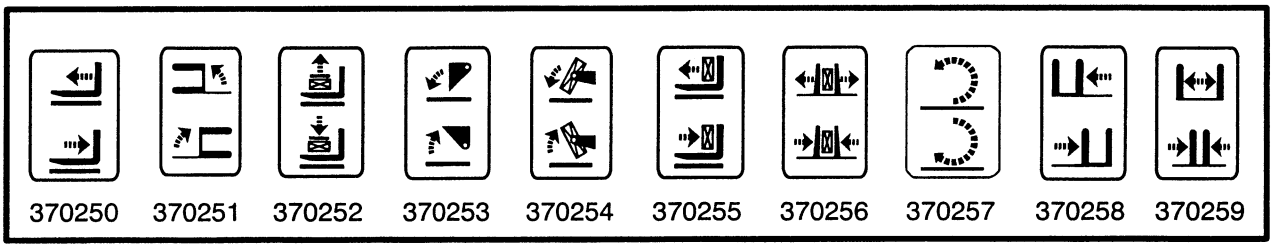

WARNING
MOVING MAST-CRUSH POINTS
Keep Hands Clear of Mast !
WARNING
APPLY HANDBRAKE before leaving truck
WARNING
DO NOT REMOVE THIS GUARD
CAUTION
WARNING
NO RIDERS!
GS
LPS
DS
HYSTER
45
EFI
-30°F (-35°C)
WARNING
INSTALL COVER BEFORE OPERATING TRUCK
WARNING
Flammable LP GAS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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22
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25
26

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LABELS

REF		PART NO.	NAME OF PART	QTY
1	d	1338178	Label-Mast Warning	2
2	d	1339672	Label-Hyster	2
3	a	.....	Label-Auxiliary Function	1
4	d	1354165	Label-Antifreeze	1
5	d	1339674	Label-Hyster	2
6	d	1356137	Label-Lift & Tilt	1
7	d	1330919	Label-Mast Warning	1
8		1354153	Label-45	2
8		1354155	Label-50	2
8		1354157	Label-55	2
8		1354159	Label-60	2
8		1354343	Label-65	2
9	d	1335129	Label-Pinch Point	2
10	bd	1345998	Label-EFI	2
11	d	2034459	Label-Ether Caution	1
12		154065	Label-GS	2
12		154066	Label-LPS	2
12		154067	Label-DS	2
13	d	1330917	Label-Tipover Warning	2
14	d	1336605	Label-Operator Warning	1
15	d	1374549	Label-Radial Tire Warning	1
16	d	2309799	Label-Park Brake	1
17	d	1345939	Label-Fan	2
18	d	1325271	Label-Fan	1
19	d	1354171	Label-Flammable Lp Gas	1
20	d	1330920	Label-No Riders	2
21	d	329029	Label-LPG Tank	1
22		170658	Rivet	AR
23		1335147	Label-Overhead Guard	1
24		389688	Cover	1
25	c	.....	Label-Capacity Plate	1
26		864740	Label-Gas Fuel Change-1/4 Full	1

a ☞ Chart Below
b Gasoline Trucks Only
c Contact Your Local Dealer For Hyster Lift Trucks
d included In Service Kit 996414



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NOTES

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ENGINE

CAMSHAFT AND OIL PAN (Figure 32)
GASOLINE AND LPG 3.0L ..... Page 54

CAMSHAFT AND TIMING GEAR (Figure 23)
GASOLINE AND LPG 2.2L ..... Page 40

CAMSHAFT AND VALVES (Figure 13)
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CAMSHAFT AND VALVES (Figure 41)
DIESEL 2.4L ..... Page 69

CAMSHAFT AND VALVES (Figure 51)
DIESEL 2.8L
LAST USED ON S/N D177B-8291 ..... Page 84

CAMSHAFT AND VALVES (Figure 61)
DIESEL 3.1L
FIRST USED ON S/N D177B-8292 ..... Page 100

COOLING (Figure 19)
GASOLINE AND LPG 2.0L ..... Page 33

COOLING (Figure 27)
GASOLINE AND LPG 2.2L ..... Page 45

COOLING (Figure 31)
GASOLINE AND LPG 3.0L ..... Page 52

CRANKCASE AND OIL PAN (Figure 40)
DIESEL 2.4L ..... Page 68

CRANKCASE AND OIL PAN (Figure 53)
DIESEL 2.8L
LAST USED ON S/N D177B-8291 ..... Page 88

CRANKCASE AND OIL PAN (Figure 63)
DIESEL 3.1L
FIRST USED ON S/N D177B-8292 ..... Page 103

CRANKSHAFT AND PISTON (Figure 12)
GASOLINE AND LPG 2.0L ..... Page 26

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ENGINE (CONTINUED)

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GASOLINE AND LPG 3.0L ..... Page 46

CRANKSHAFT AND PISTON (Figure 42)
DIESEL 2.4L ..... Page 70

CRANKSHAFT AND PISTON (Figure 52)
DIESEL 2.8L
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DIESEL 3.1L
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CYLINDER BLOCK (Figure 10)
GASOLINE AND LPG 2.0L ..... Page 24

CYLINDER BLOCK (Figure 21)
GASOLINE AND LPG 2.2L ..... Page 36

CYLINDER BLOCK (Figure 37)
DIESEL 2.4L ..... Page 62

CYLINDER BLOCK (Figure 49)
DIESEL 2.8L
LAST USED ON S/N D177B-8291 ..... Page 80

CYLINDER BLOCK (Figure 59)
DIESEL 3.1L
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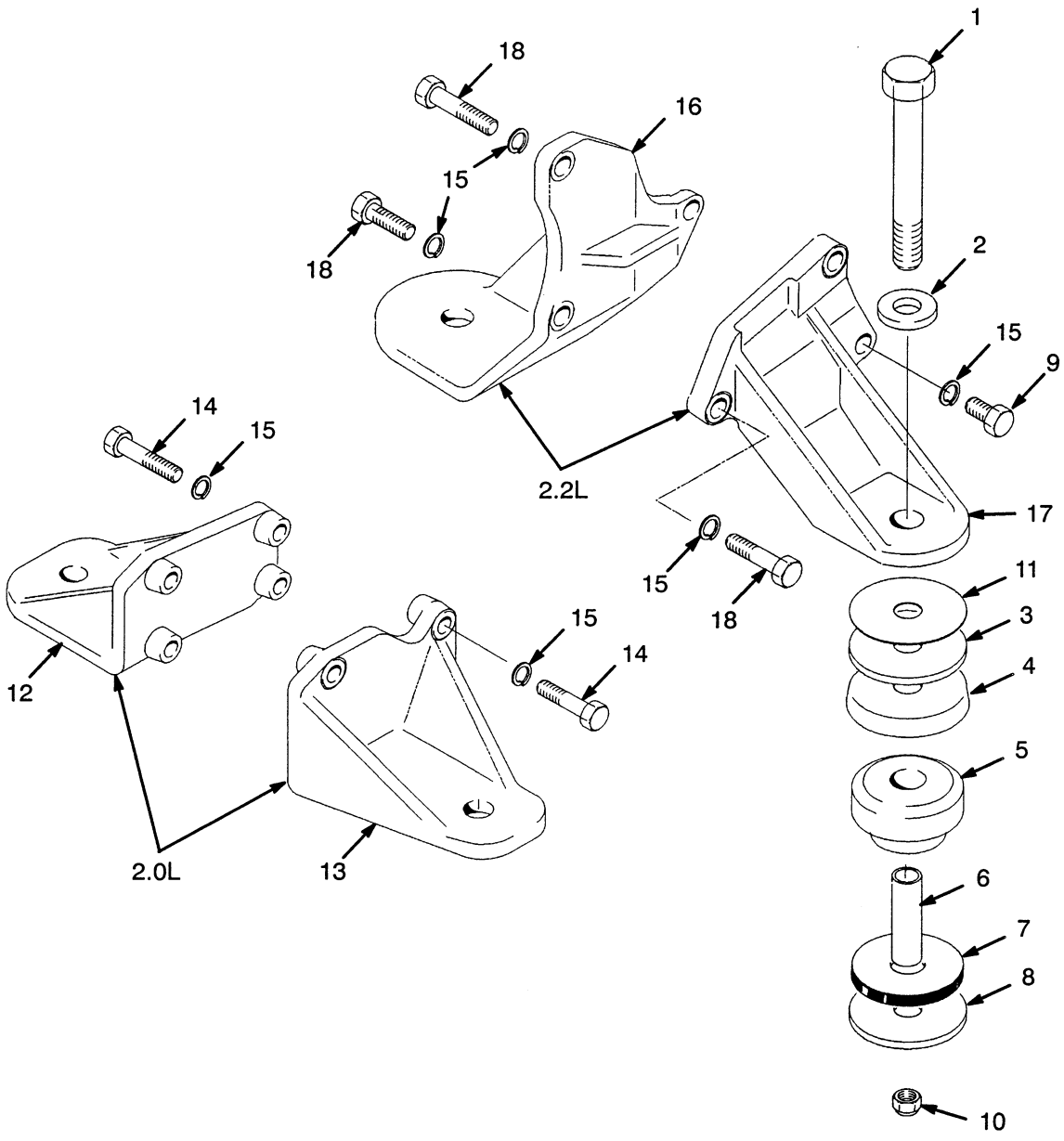
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ENGINE MOUNT (Figure 5)

GASOLINE AND LPG 2.0L AND 2.2L



KEY:
A: 2.0L Engine
B: 2.2L Engine

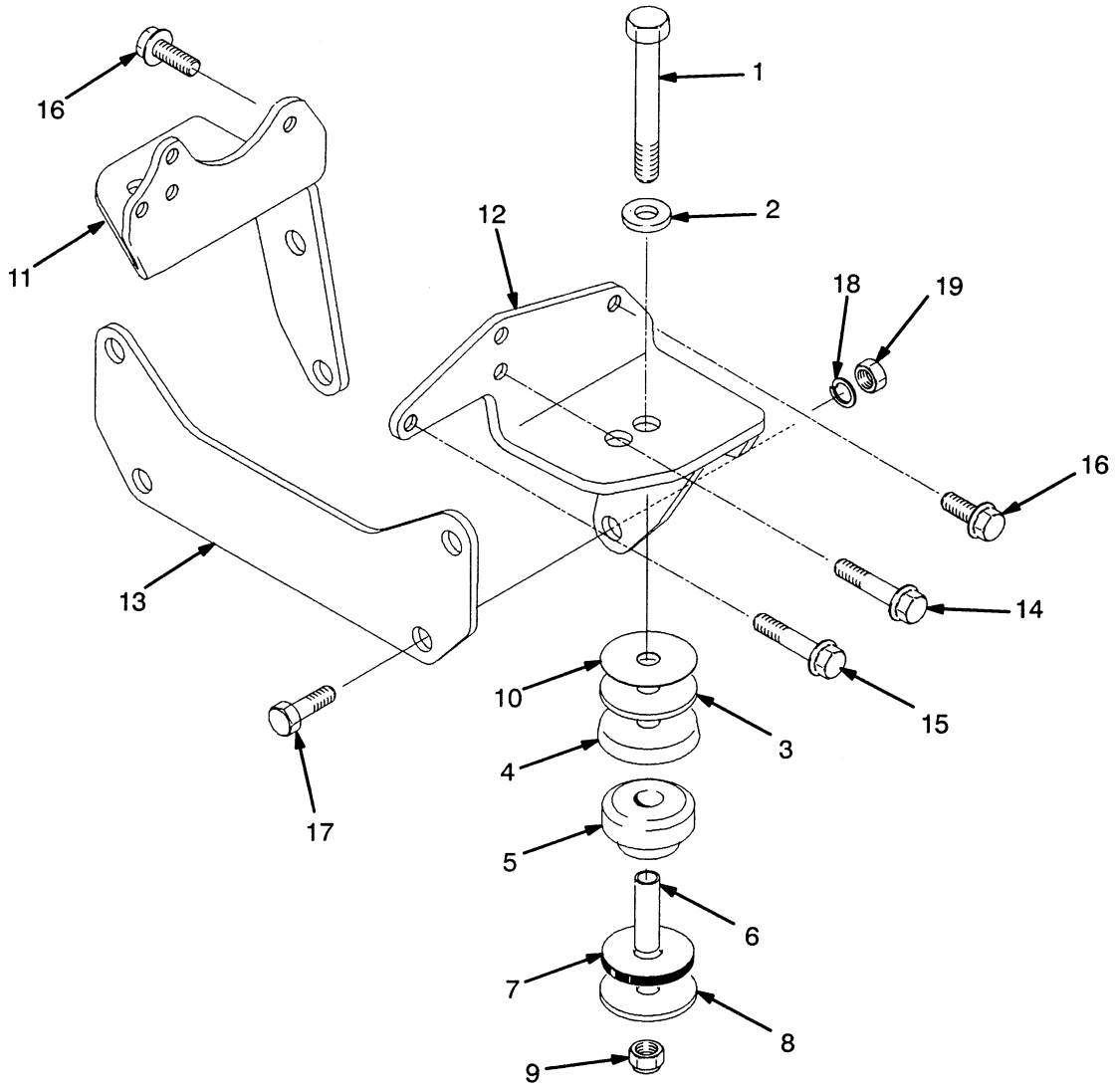
REF	PART NO.	NAME OF PART	QTY A	QTY B
1	293658	Capscrew	2	2
2	300932	Washer	2	2
3	340796	Washer	2	2
4	1351098	Cup	2	2
5	1351096	Isolator	2	2
6	1351061	Spacer	2	2
7	1351060	Bumper	2	2
8	300939	Washer	2	2
9	293631	Capscrew	..	2
10	300937	Nut	2	2
11	1351017	Spacer	AR	AR
12	1337014	Bracket (LH)	1	..
13	1337012	Bracket (RH)	1	..
14	1347119	Capscrew	8	..
15	292682	Lockwasher	8	6
16	1335961	Bracket (LH)	..	1
17	1335960	Bracket (RH)	..	1
18	293630	Capscrew	..	4

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ENGINE MOUNT (Figure 6)

GASOLINE AND LPG 3.0L

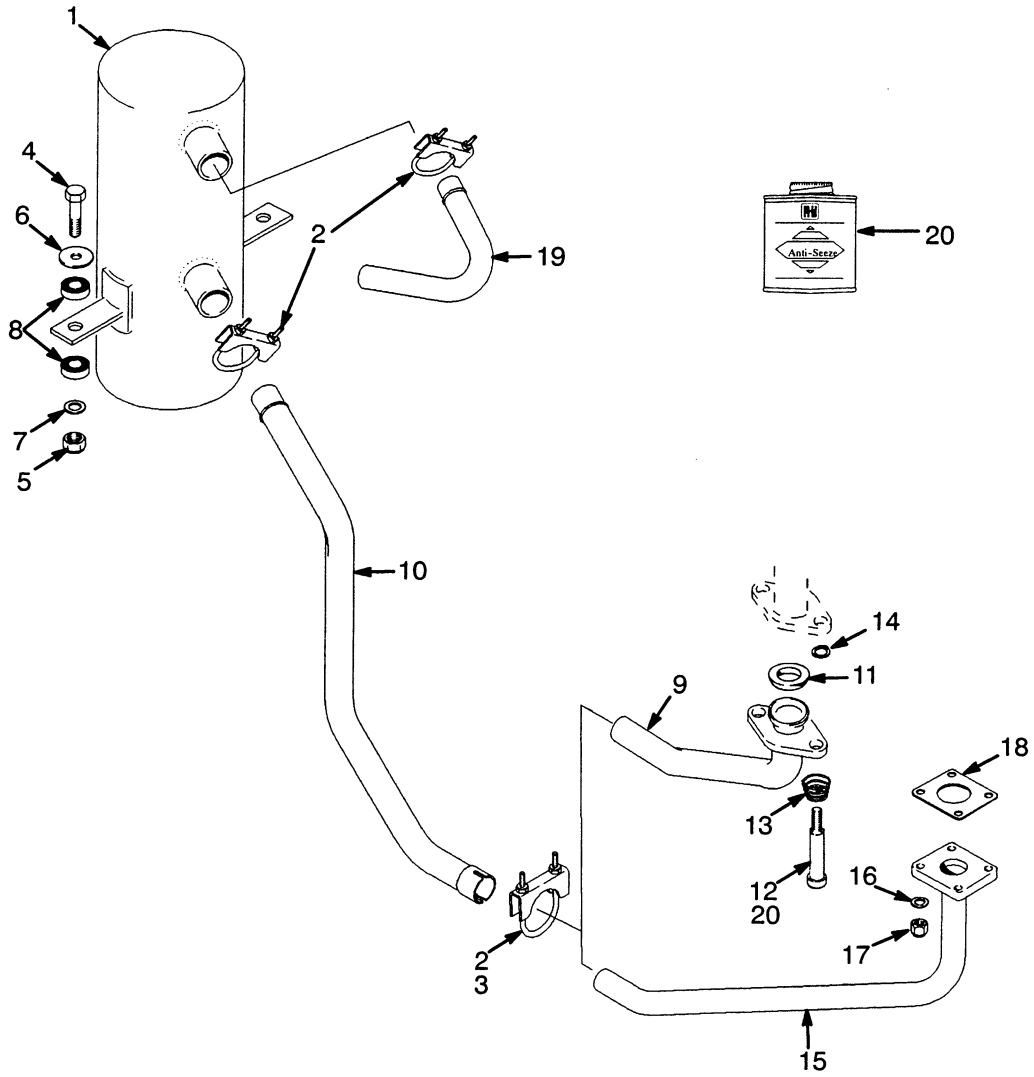


REF	PART NO.	NAME OF PART	QTY
1	293658	Capscrew	2
2	300932	Washer	2
3	340796	Washer	2
4	1351098	Cup	2
5	1351096	Isolator	2
6	1351061	Spacer	2
7	1351060	Bumper	2
8	300939	Washer	2
9	300937	Locknut	2
10	1351017	Spacer	AR

REF	PART NO.	NAME OF PART	QTY
11	1375125	Bracket (LH)	1
12	1375129	Bracket (RH)	1
13	1375128	Plate	1
14	196898	Screw	1
15	197853	Screw	1
16	174413	Screw	6
17	293686	Capscrew	4
18	296426	Washer	4
19	316828	Locknut	4

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EXHAUST (Figure 7)
GASOLINE AND LPG



KEY:
A: 2.2L Engine
B: 2.0L Engine
C: 3.0L Engine

REF		PART NO.	NAME OF PART	QTY A	B	C
1		1338282	Muffler	1	1	1
1	a	1350261	Muffler	1	1	1
2		68968	Clamp	3	2	3
3		195769	Clamp	..	1	..
4		292517	Capscrew	2	2	2
5		316826	Nut	2	2	2
6		1351176	Washer	2	2	2
7		320159	Washer	2	2	2
8		1351177	Spacer	4	4	4
9		1338332	Pipe	1	..	..
9		1375155	Pipe	..	..	1
10		1347125	Tube	1	..	..
10		1347126	Tube	..	1	..
10		1383012	Tube	..	..	1

REF	PART NO.	NAME OF PART	QTY A	B	C
11	1338258	Seal	1	..	..
11	1375189	Seal	..	..	1
12	1337118	Capscrew	2	..	..
12	1376766	Capscrew	..	..	2
13	1335898	Spring	2	..	2
14	292682	Lockwasher	2	..	..
15	1338300	Pipe	..	1	..
16	292681	Lockwasher	..	4	..
17	239503	Nut	..	4	..
18	1338308	Gasket	..	1	..
19	1338276	Pipe	1	1	1
20	251979	Lubricant	AR	AR	AR

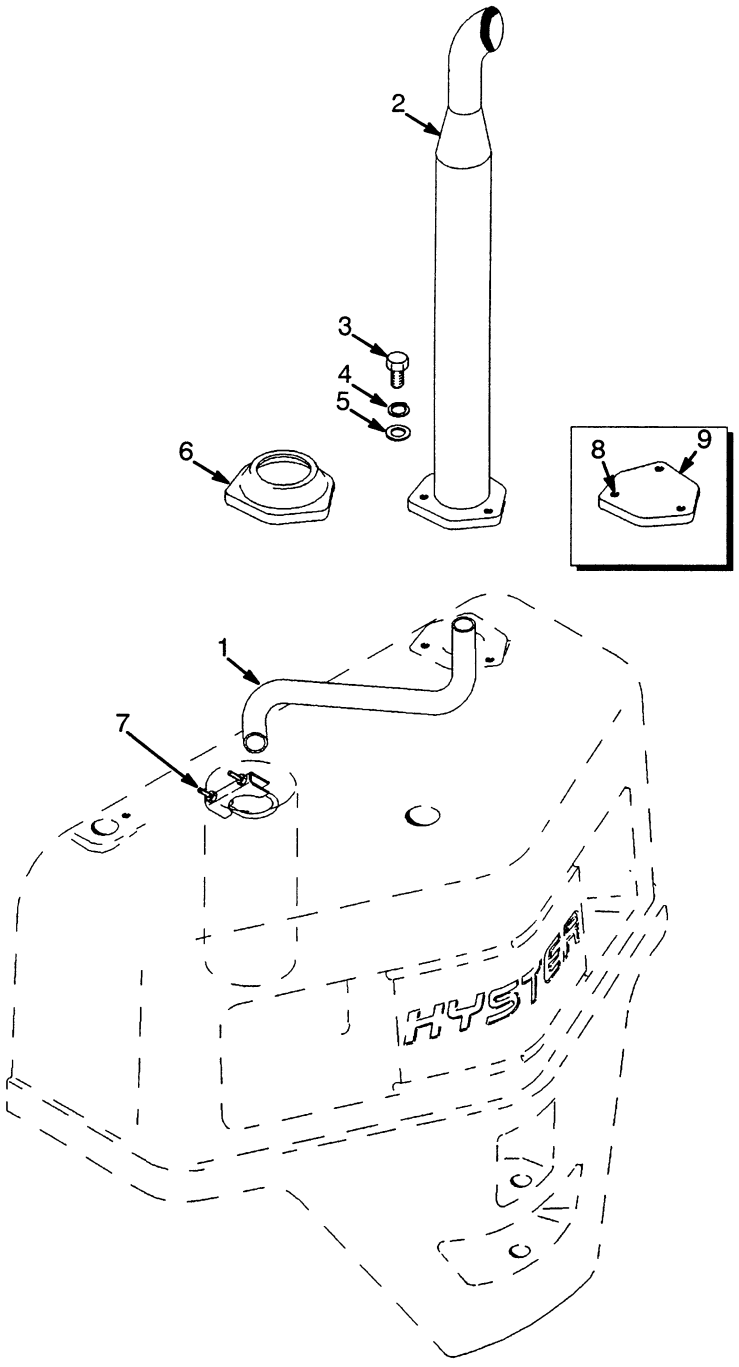
a Types GS And LPS

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EXHAUST (Figure 8)

OVERHEAD



REF		PART NO.	NAME OF PART	QTY
1		1335764	Tube	1
2		1335765	Tailpipe	1
3		287854	Capscrew	3
4		292682	Lockwasher	3
5		320159	Washer	3
6		1351178	Cover	1
6	a	1365887	Cover	1

REF		PART NO.	NAME OF PART	QTY
7		68968	Clamp	1
8	b	1347045	Fastener	3
9	b	1347043	Cover	1

a 2.0L LPG

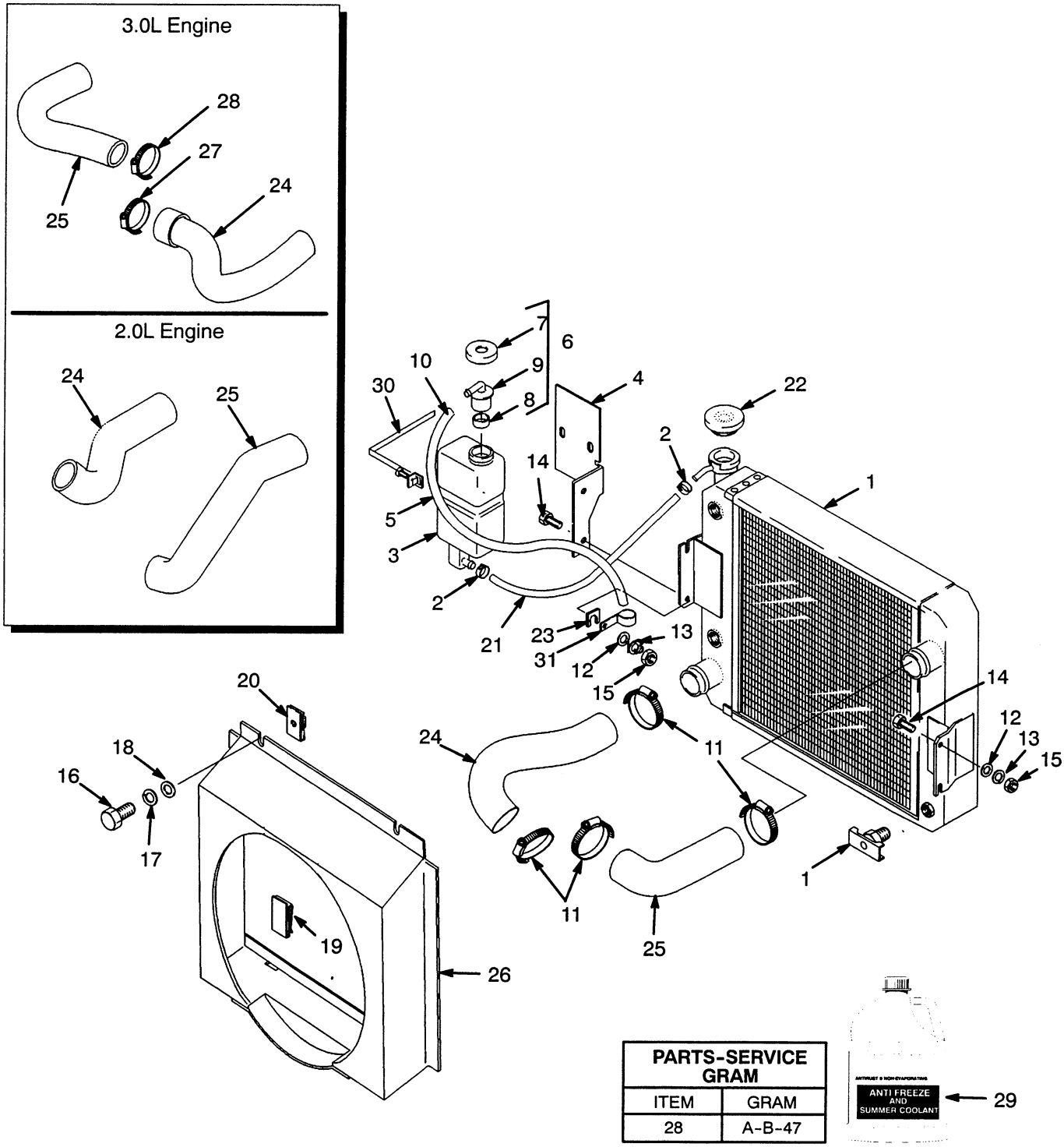
b Used With Counterweight Exhaust

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RADIATOR AND HOSES (Figure 9)

GASOLINE AND LPG



PARTS-SERVICE GRAM	
ITEM	GRAM
28	A-B-47

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RADIATOR AND HOSES

GASOLINE AND LPG

KEY:
A: 2.0L
B: 2.2L
C: 3.0L

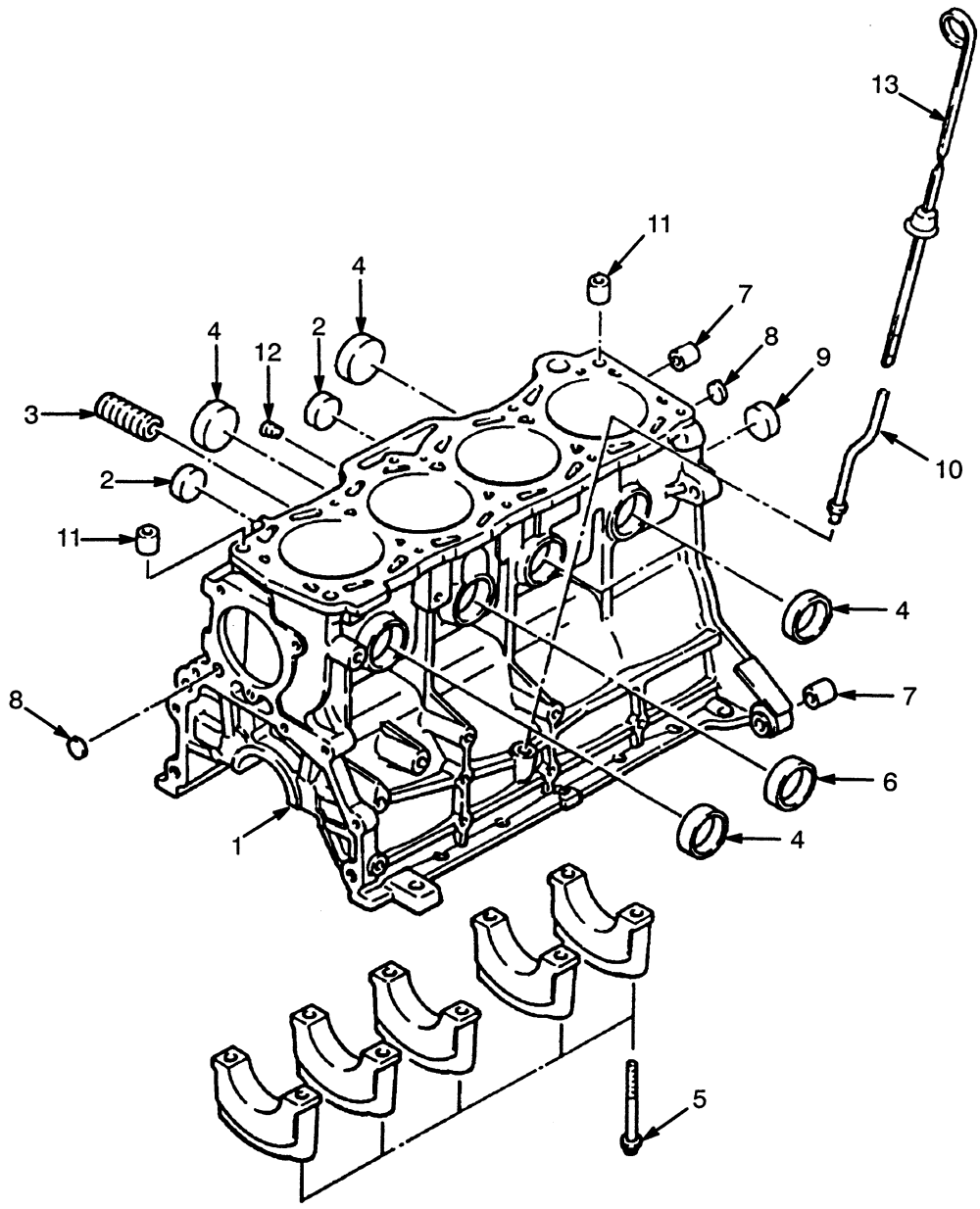
REF		PART NO.	NAME OF PART	QTY A	B	C
1		1338328	Radiator (10 Fins/Inch)	1	1	..
1		1337002	Radiator (10 Fins/Inch)	..	..	1
1	a	1343623	Radiator (6.5 Fins/Inch)	1	1	..
1	a	1343618	Radiator (6.5 Fins/Inch)	..	..	1
1		1357716	Oil Cooler	1	1	..
1		1357717	Oil Cooler	..	..	1
1		1357721	Draincock	1	1	1
2		168718	Clamp	2	2	2
3		1347026	Reservoir	1	1	1
4		1347072	Bracket	1	1	1
5		1457312	Hose	1	1	1
6		1359581	Outlet Assembly	1	1	1
7		345454	Cap	1	1	1
8		336550	Bushing	1	1	1
9		345453	Outlet	1	1	1
10		1457312	Hose	1	1	1
11		127045	Clamp	4	4	..
11		127045	Clamp	..	..	2
12		292682	Lockwasher	3	3	3
13		320159	Washer	3	3	3
14		136985	Capscrew	3	3	3
15		136692	Nut	3	3	3
16		302235	Screw	2	2	2
17		1347076	Washer	2	2	2
18		292678	Lockwasher	2	2	2
19		1329271	Clip	2	2	2
20		1329272	Nut	2	2	2
21		1359580	Tube	1	1	1
22		1352140	Radiator Cap	1	1	1
23		1331152	Shim	AR	AR	AR
24		133651	Hose (Lower)	1	..	..
24		1339272	Hose (Lower)	..	1	..
24		1376722	Hose (Lower)	..	..	1
25		1368949	Hose (Upper)	1	..	..
25		1339271	Hose (Upper)	..	1	..
25		1375132	Hose (Upper)	..	..	1
26		1339635	Shroud	1	..	..
26		1339273	Shroud	..	1	..
26		1375134	Shroud	..	..	1
27		119236	Clamp	..	..	1
28		369804	Clamp	..	..	1
29		3002338	Antifreeze (1 Gallon)	AR	AR	AR
30		1345825	Strap	1	1	1
31		173247	Clamp	1	1	1

a Optional

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CYLINDER BLOCK (Figure 10)

GASOLINE AND LPG 2.0L



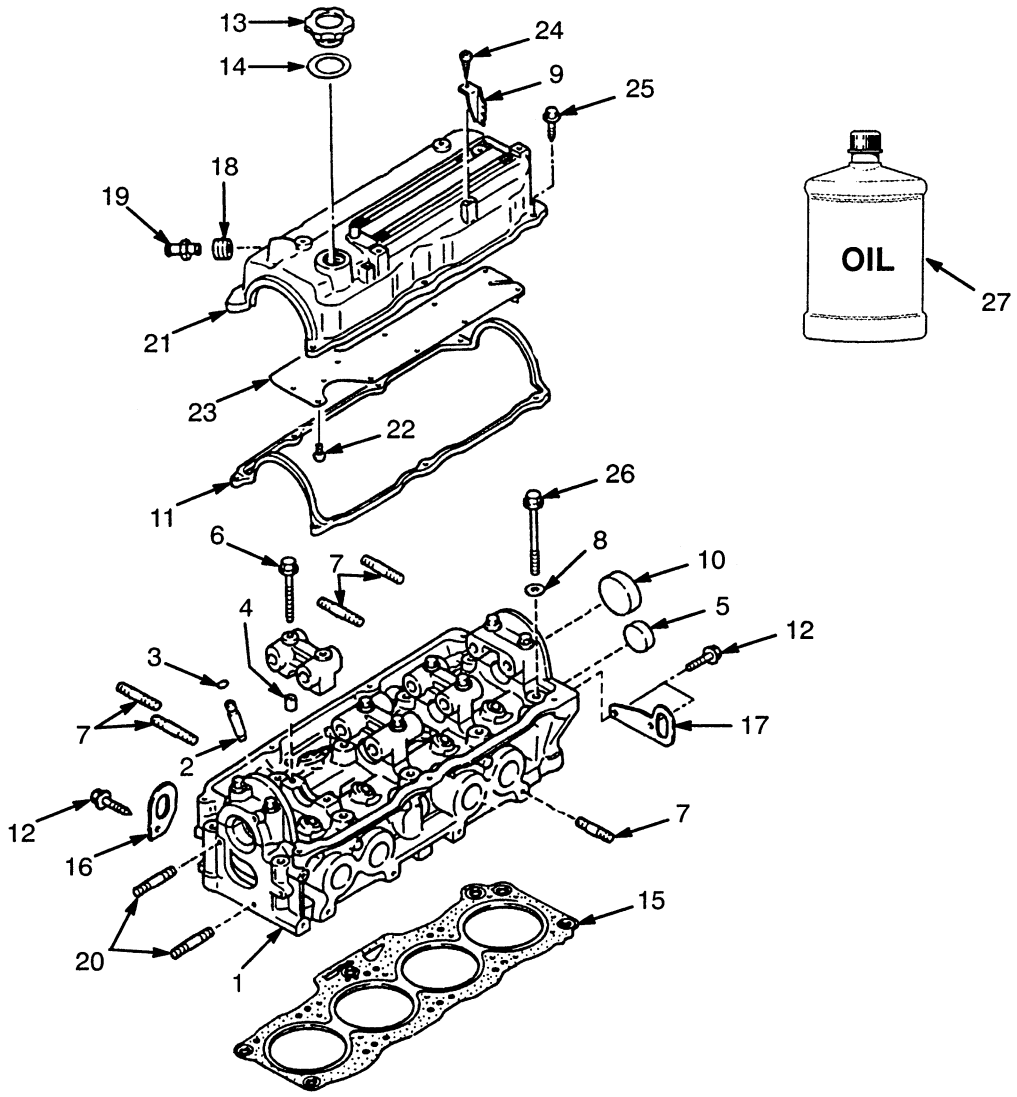
REF	PART NO.	NAME OF PART	QTY
a	1335944	Engine (Gasoline)	1
b	1382681	Engine (Gasoline)	1
a	1356547	Engine (LPG)	1
b	1382680	Engine (LPG)	1
1	1360897	Cylinder Block	1
2	1362005	Plug	2
3	1360898	Fitting	1
4	1362003	Plug	4
5	1361676	Bolt	10
6	1362007	Plug	2
7	1362008	Pin	2
8	1361675	Plug	2
9	1362009	Plug	1
10	1360899	Pipe	1
11	1360896	Pin	2
12	1362006	Plug	2
13	1361677	Dipstick	1

a Last Used On S/N D177B-34601
b First Used On S/N D177B-34602

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CYLINDER HEAD (Figure 11)
GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		1360878	Cylinder Head	1
2		1360895	Valve Guide	8
3		1360879	Clip	8
4		1362002	Pin	10
5		1362003	Plug	1
6		1361894	Bolt	10
7		1361897	Stud	8
8		1360881	Washer	10
9		1360885	Protector	2
10		1360882	Cap	8
11	a	1360886	Gasket	1
12		1361898	Bolt	2
13		1360887	Cap	1
14		1360888	Gasket	1
15	a	1360889	Gasket	1
16		1360890	Front Hanger	1
17		1360891	Rear Hanger	1

REF	PART NO.	NAME OF PART	QTY
18	1360892	Seal	1
19	1360893	PCV Valve	1
20	1361889	Stud	4
21	1360883	Cover	1
22	1361896	Screw	12
23	1360884	Plate	1
24	1362000	Screw	2
25	1362001	Bolt	7
26	1360880	Bolt	10
27	3021390	Engine Oil (Bulk)	AR
27	3021391	Engine Oil (55 Gallon)	AR
27	3021392	Engine Oil (12 Quart Case)	AR

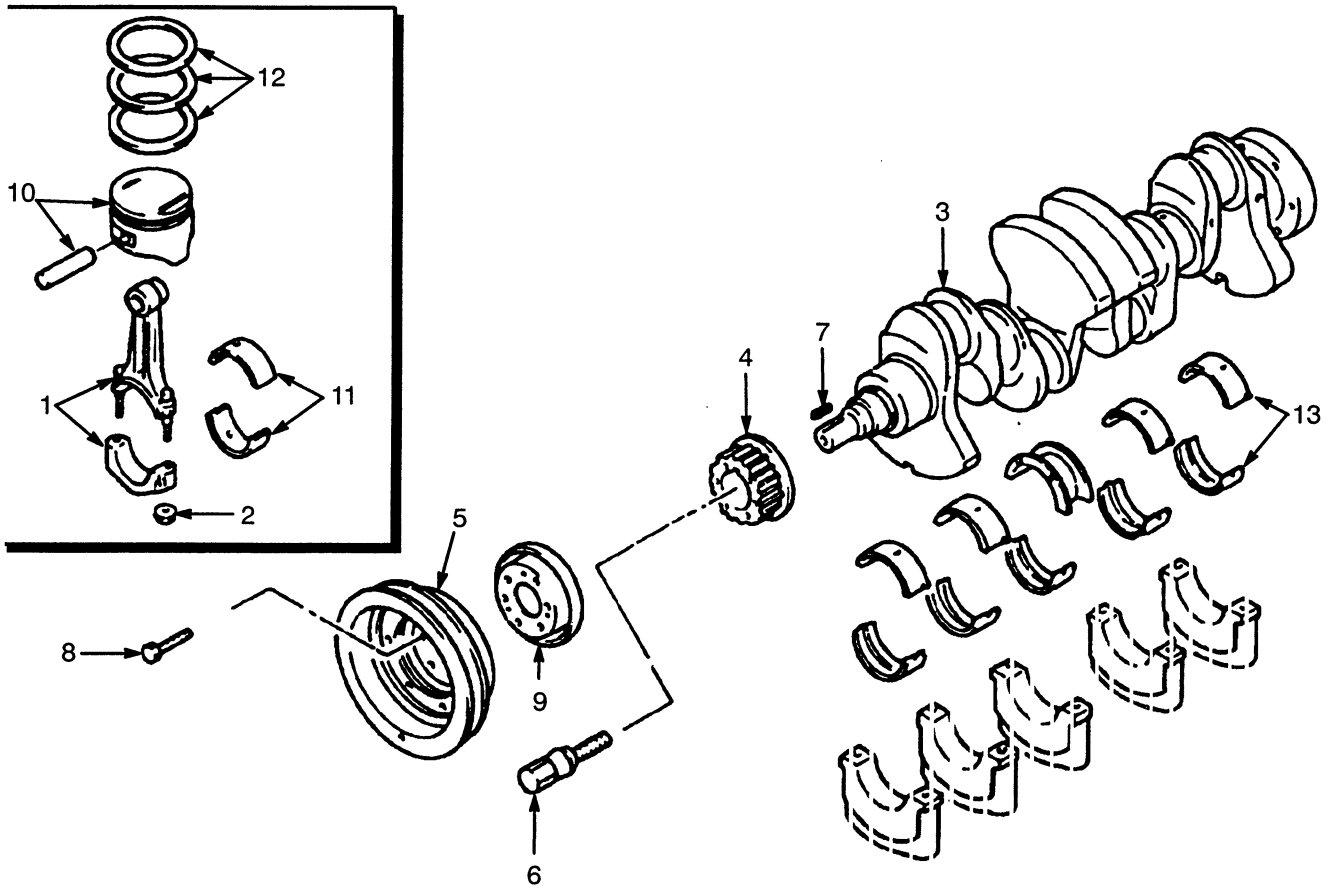
a Included In Gasket Set 1367190

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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CRANKSHAFT AND PISTON (Figure 12)

GASOLINE AND LPG 2.0L



REF	PART NO.	NAME OF PART	QTY
1	1361694	Connecting Rod	4
2	1361695	Nut	8
3	1361696	Crankshaft	1
4	1361698	Pulley	1
5	1361699	Pulley	1
6	1361701	Bolt	1
7	1361697	Key	1
8	1361700	Bolt	6
9	1361702	Plate	1
10	1361714	Piston (Standard)	4
10	1361715	Piston (0.25 mm)	4
10	1361716	Piston (0.50 mm)	4
11	1361703	Bearing (Standard)	1

REF	PART NO.	NAME OF PART	QTY
11	1361704	Bearing (0.25 mm)	1
11	1361705	Bearing (0.50 mm)	1
11	1361706	Bearing (0.75 mm)	1
12	1361707	Piston Ring (Standard)	1
12	1361709	Piston Ring (0.25 mm)	1
12	1361708	Piston Ring (0.50 mm)	1
13	1361710	Bearing (Standard)	1
13	1361713	Bearing (0.25 mm)	1
13	1361711	Bearing (0.50 mm)	1
13	1361712	Bearing (0.75 mm)	1

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

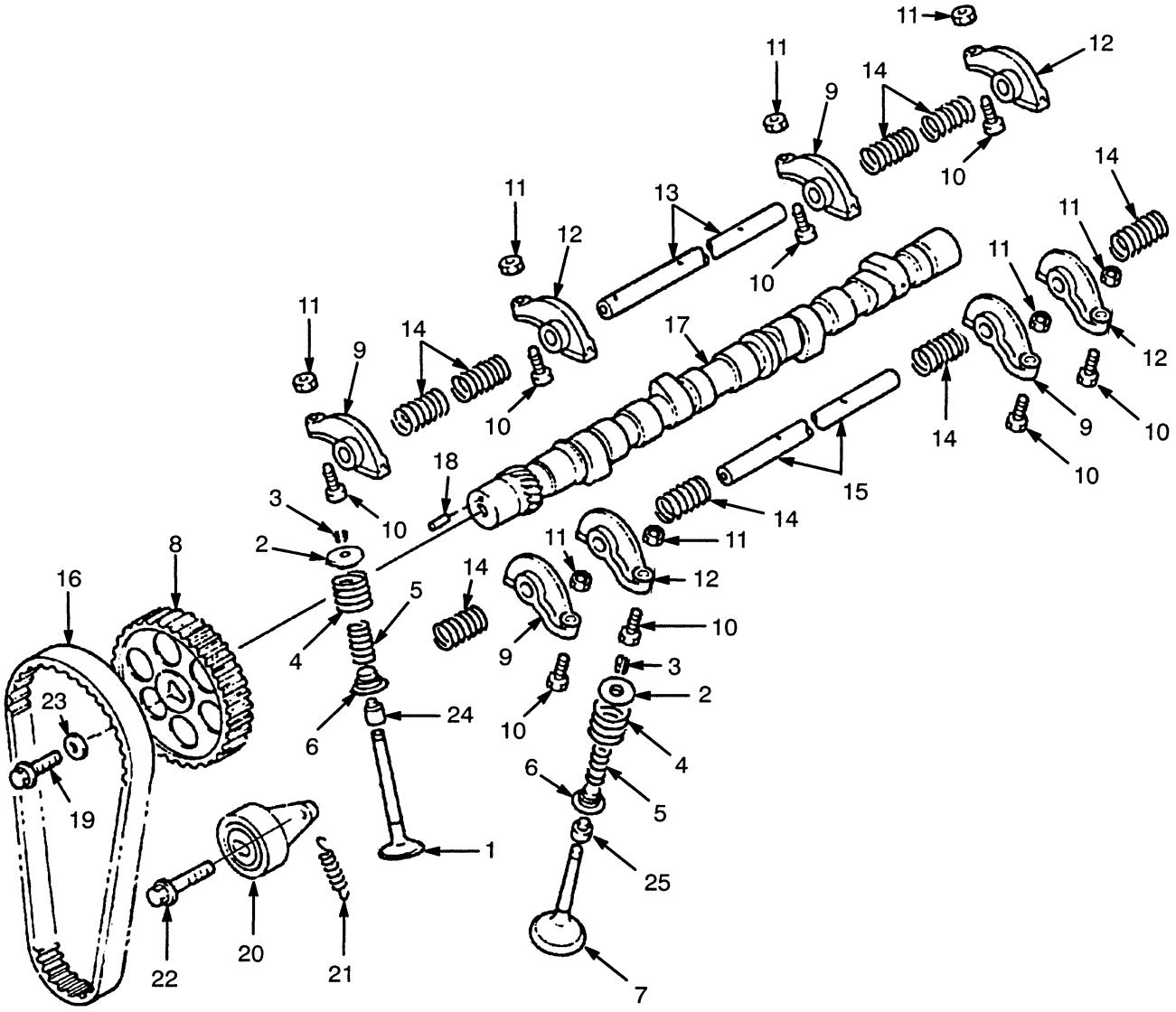
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CAMSHAFT AND VALVES (Figure 13)

GASOLINE AND LPG 2.0L



REF	PART NO.	NAME OF PART	QTY
1	1361720	Intake Valve	4
2	1361721	Seat	8
3	326612	Sleeve	8
4	1361722	Spring	8
5	1361723	Spring	8
6	1361724	Seat	8
7	1361725	Exhaust Valve	4
8	1361735	Pulley	1
9	1361726	Rocker Arm	4
10	1361727	Screw	8
11	1361728	Nut	8
12	1361729	Rocker Arm	4
13	1361730	Shaft	1
14	1361731	Spring	8
15	1361732	Shaft	1

REF		PART NO.	NAME OF PART	QTY
16		1361733	Timing Belt	1
17		1361734	Camshaft	1
18		1361717	Pin	1
19		1361736	Bolt	1
20		1361738	Tensioner	1
21		1361739	Spring	1
22		1362016	Bolt	1
23		1361737	Washer	1
24	a	1361718	Seal	4
25	a	1361719	Seal	4

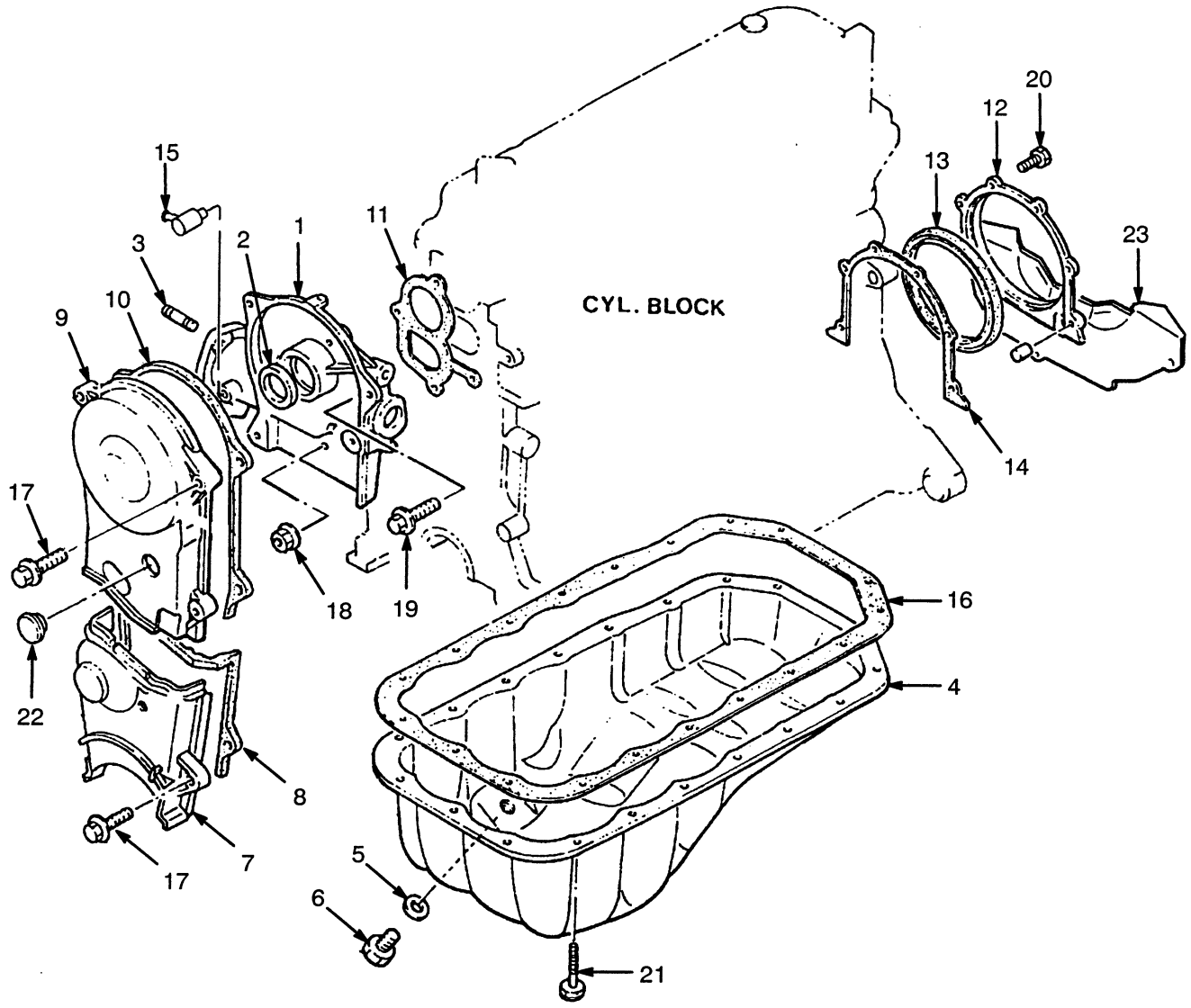
a Included In Gasket Set 1367190

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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TIMING GEAR COVER AND OIL PAN (Figure 14)

GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		1361678	Housing	1
2	a	1361688	Oil Seal	1
3		1362012	Stud	2
4		1361680	Oil Pan	1
5		1362015	Gasket	1
6		1361681	Drain Plug	1
7		1361683	Cover	1
8	a	1361684	Gasket	1
9		1361686	Cover	1
10	a	1361687	Gasket	1
11	a	1361679	Gasket	1
12		1361689	Cover	1
13	a	1361691	Rear Oil Seal	1
14	a	1361690	Gasket	1

REF		PART NO.	NAME OF PART	QTY
15		1361692	Connector Hose	1
16	a	1361682	Gasket	1
17		1362001	Bolt	6
18		326504	Nut	2
19		1362013	Bolt	2
20		1362011	Bolt	6
21		1370736	Bolt	19
22		1361685	Plug	1
23		1371652	Cover	1

a Included In Gasket Set 1367190

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

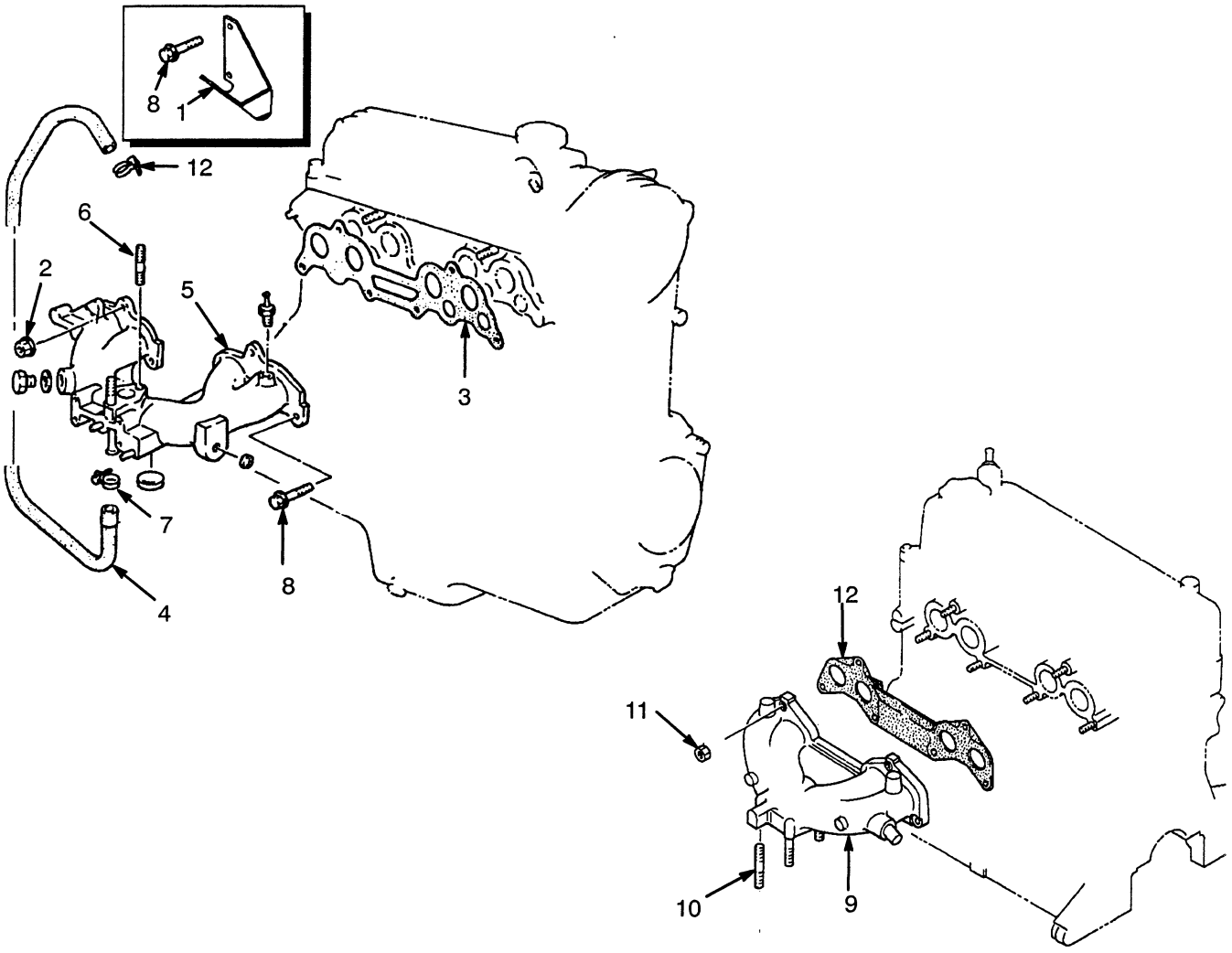
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MANIFOLD (Figure 15)

GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		1361743	Bracket (Gasoline)	1
1		1376620	Bracket (LPG)	1
2		326504	Nut	4
3		1361742	Gasket	1
4	a	1361791	Hose-Water	1
5		1361740	Inlet Manifold	1
6		1362017	Stud	2
7		1361873	Clamp	2
8		1361885	Bolt	4
9		1361744	Exhaust Manifold	1
10		1361745	Stud	4
11		1361746	Nut	6
12		1361747	Gasket	1

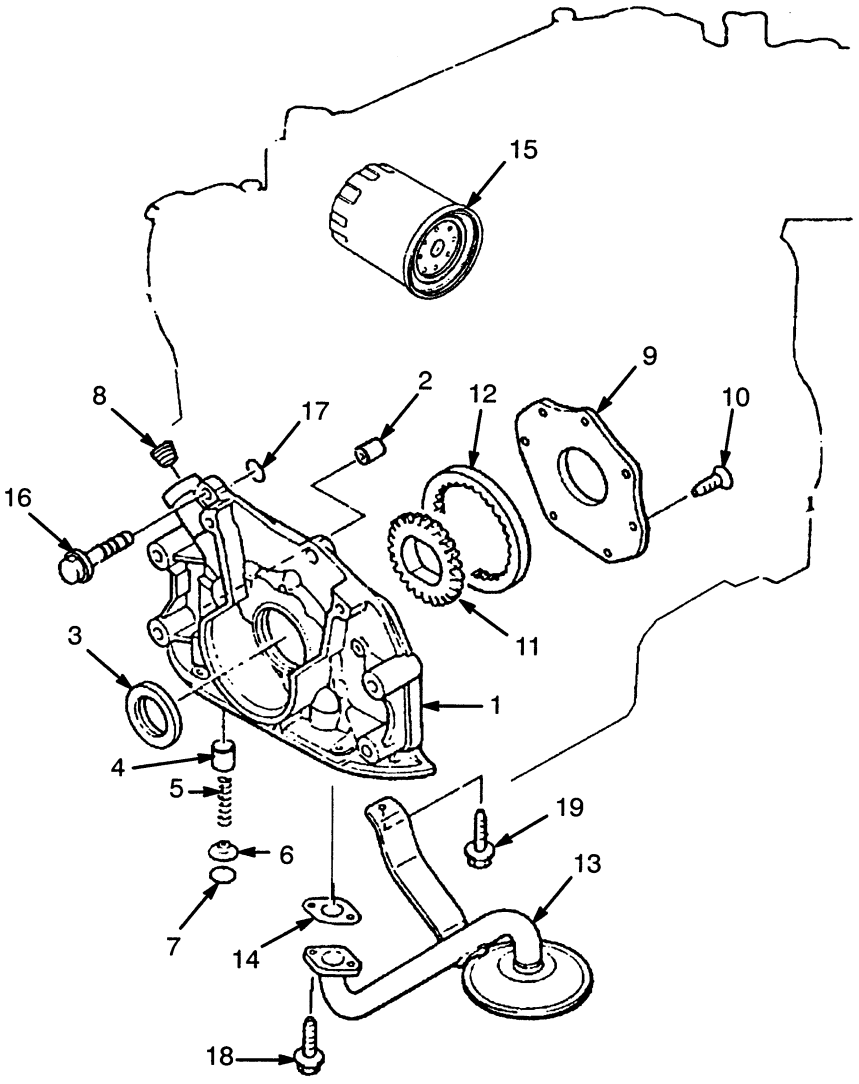
a Gasoline

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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OIL PUMP AND FILTER (Figure 16)

GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		1455675	Oil Pump	1
2		1361798	Pin	2
3	a	1361688	Oil Seal	1
4		1455674	Plunger	1
5		326748	Spring	1
6		326749	Seat	1
7		1361879	Retaining Ring	1
8		1368790	Plug	1
9		1361802	Cover	1
10		1545677	Screw	7
11		1361804	Drive Gear	1
12		1361805	Driven Gear	1

REF		PART NO.	NAME OF PART	QTY
13		1361806	Strainer	1
14	a	1361807	Gasket	1
15		324692	Oil Filter	1
16		1361875	Bolt	2
17	a	1361801	O-Ring	1
18		1361878	Bolt	2
19		1361868	Bolt	1

a Included In Gasket Set 1367190

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

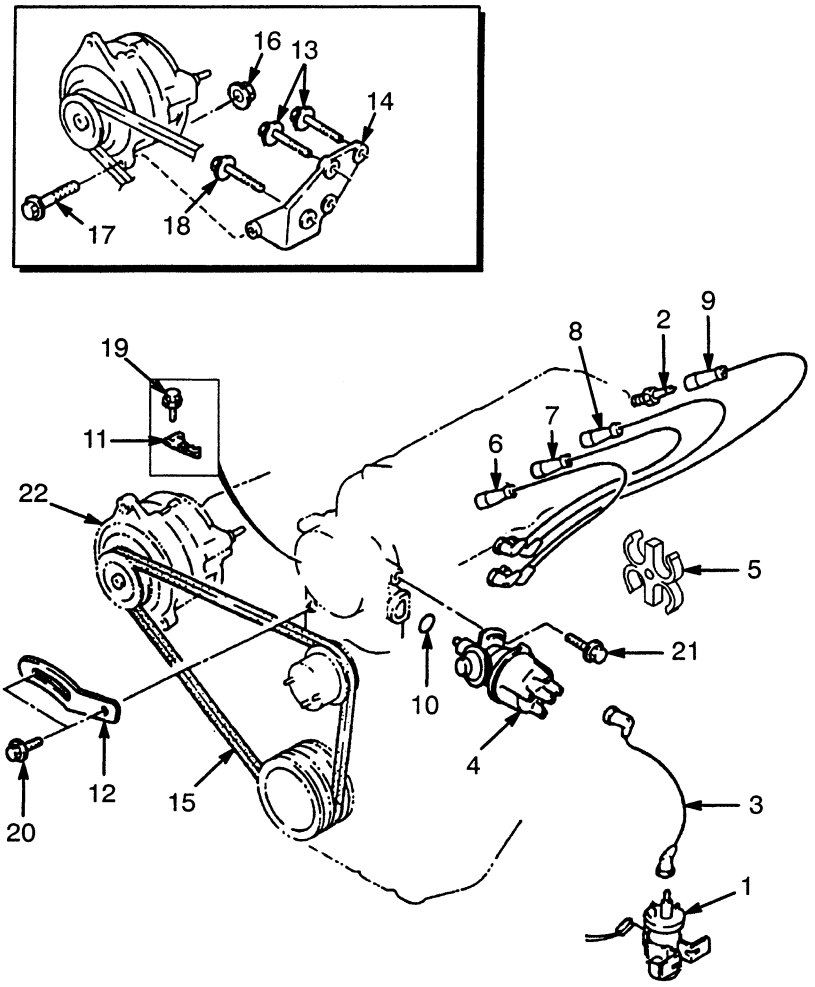
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ELECTRICAL (Figure 17)

GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		.....	Ignition Coil	1
			☞ Figure 116	
2		1361837	Spark Plug	4
3		1361839	Ignition Cable	1
4		.....	Distributor	1
			☞ Figure 139	
5		1361838	Supporter	1
6		1361840	Ignition Cable #1	1
7		1361841	Ignition Cable #2	1
8		1361842	Ignition Cable #3	1
9		1361843	Ignition Cable #4	1
10	a	326850	O-Ring	1
11		1361844	Protector	1
12		1361845	Strap	1
13		1361891	Bolt	2
14		1361846	Bracket	1
15	b	1361847	Belt	1
15	c	1384008	V-Belt	1
16		1361890	Nut	1
17		1361889	Bolt	1
18		1361888	Bolt	2
19		1361893	Bolt	1
20		1361881	Bolt	2
21		1361895	Bolt	1
22		.....	Alternator	1
			☞ Figure 141	

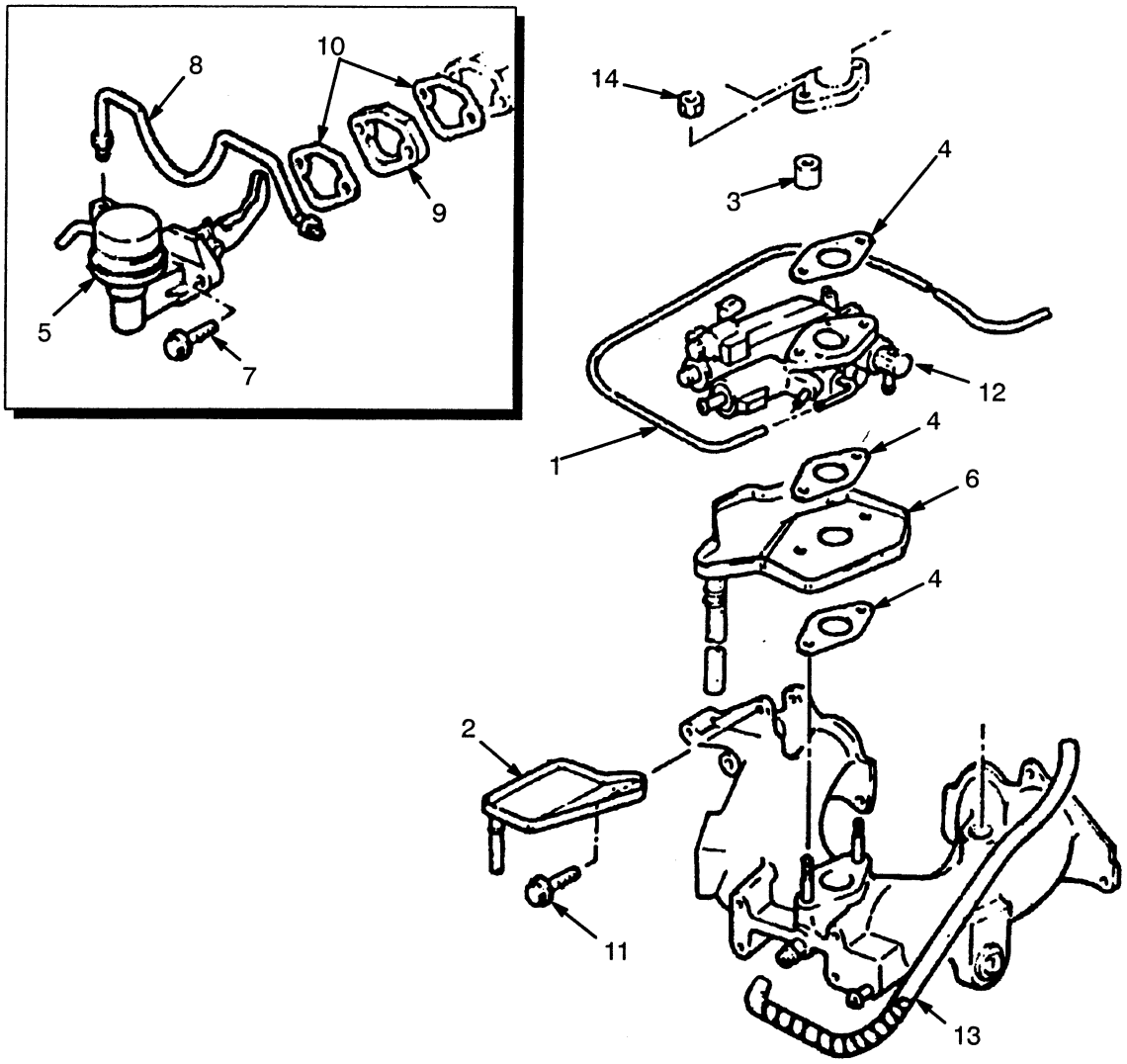
a Included In Gasket Kit 1367190
b Last Used On S/N D177B-34601
c First Used On S/N D177B-34602

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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FUEL (Figure 18)

GASOLINE AND LPG 2.0L



KEY:
A: LPG
B: Gasoline

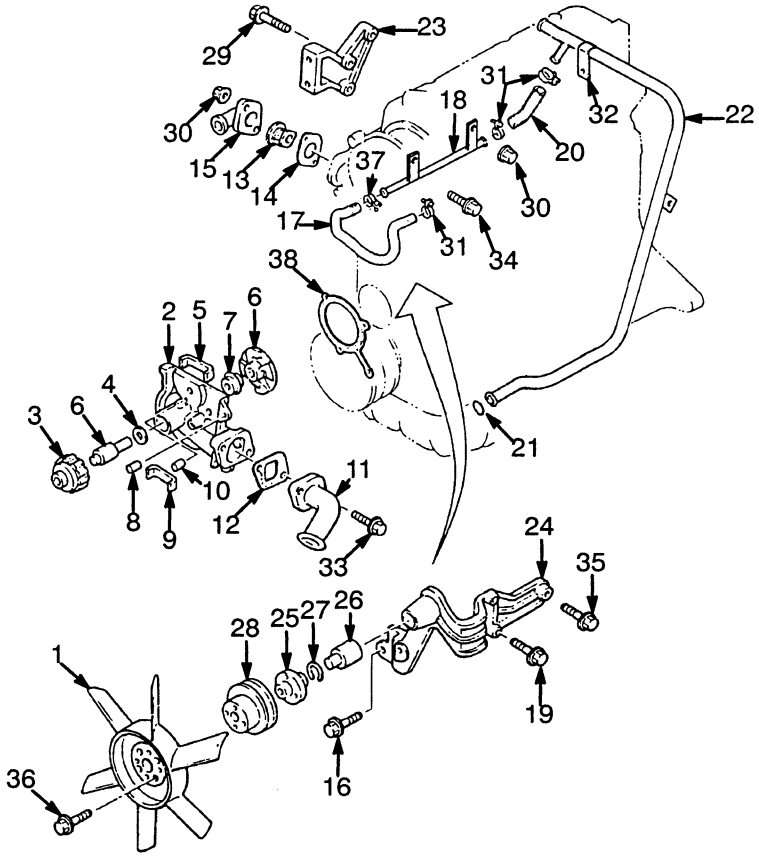
REF	PART NO.	NAME OF PART	QTY A	QTY B
1	1361773	Hose	1	1
2	1361754	Deflector	..	1
3	1361761	Spacer	2	..
4	1361752	Gasket	2	3
5	1361753	Fuel Pump	..	1
6	1361750	Deflector	..	1
7	1361885	Bolt	..	2
7	1361898	Bolt	2	..
8	1361760	Pipe	..	1
9	1361749	Cover	1	..
9	1361755	Insulator	..	1
10	1361756	Gasket	1	2
11	1361868	Bolt	..	2
12	.....	Governor ☞ Figure 81	1	..
13	1360894	Hose (PVC)	1	1
14	326504	Nut	2	2

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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COOLING (Figure 19)
GASOLINE AND LPG 2.0L



REF		PART NO.	NAME OF PART	QTY
1		1361817	Fan	1
2		1361811	Water Pump	1
3		1361816	Pulley	1
4		1361815	Plate	1
5	a	1361810	Rubber Seal	1
6		.....	Shaft & Impeller	1
7		1361814	Seal	1
8		1361880	Pin	1
9	a	1361809	Rubber Seal	1
10		1361834	Pin	1
11		1361818	Inlet Pipe	1
12	a	1361819	Gasket	1
13		1361820	Thermostat	1
14	a	1367191	Gasket	1
15		1361821	Outlet Cover	1
16		324707	Bolt	2
17		1361825	Hose	1
18		1361823	Pipe	1
19		1361884	Bolt	3
20		1361824	Hose	1
21	a	1361827	O-Ring	1
22		1361828	Pipe	1
23		1361829	Bracket	1
24		1361830	Idler	1

REF		PART NO.	NAME OF PART	QTY
25		1361813	Hub	1
26		1361832	Shaft	1
27		1361835	Ring	1
28	b	1361831	Pulley	1
28	c	1384006	Pulley	1
29		1361885	Bolt	3
30		326504	Nut	3
31		1361873	Hose Clamp	3
32		1361826	Clamp	1
33		1361881	Bolt	2
34		1361885	Bolt	1
35		1361882	Bolt	1
36		1361878	Bolt	1
37		1361833	Clamp	1
38	a	1361812	Gasket	1

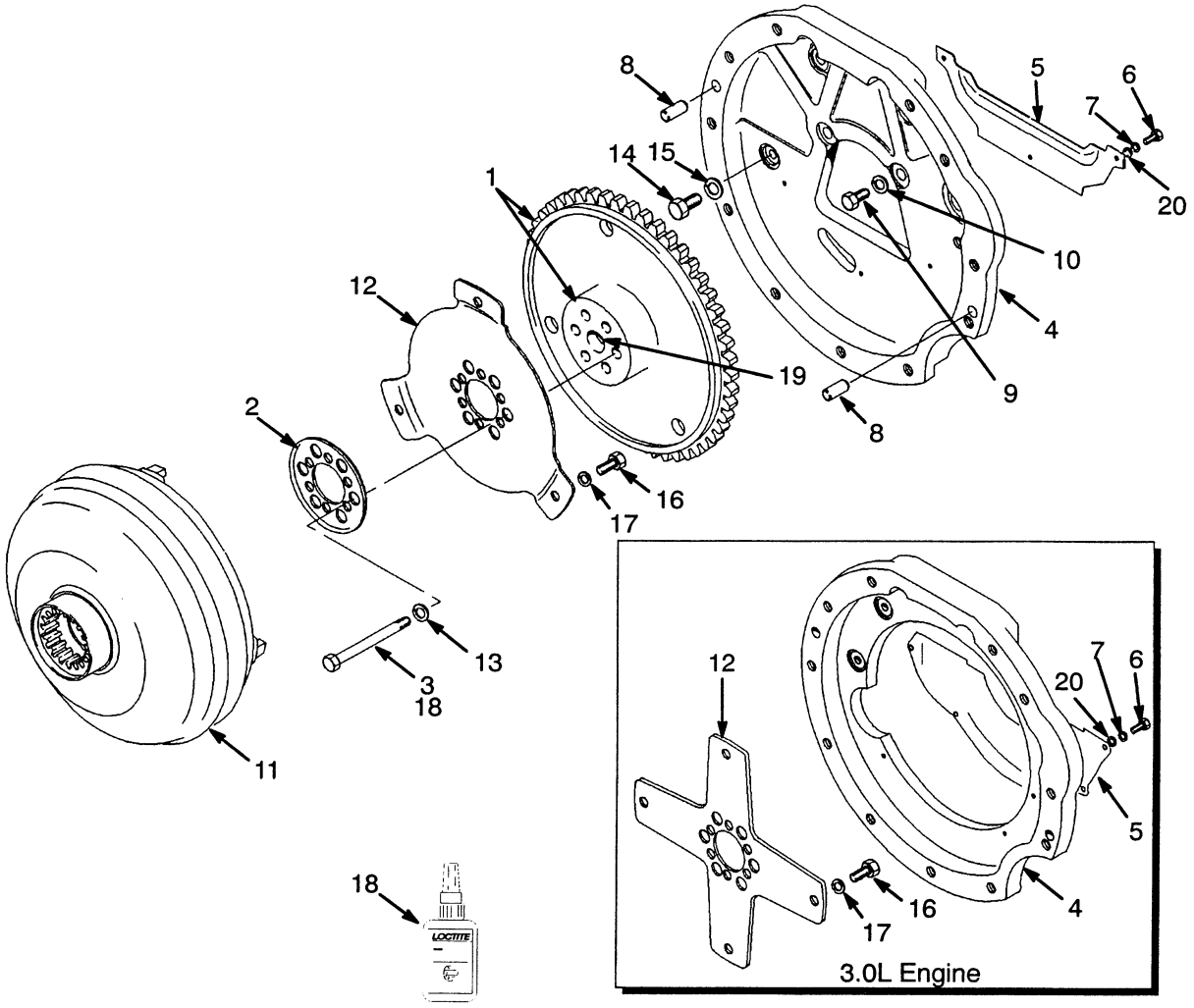
a Included In Gasket Kit 1367190
b Last Used On S/N D177B-34601
c First Used On S/N D177B-34602

Note: The Above Parts Are Included With Engines 1335944,1356547, 1382680, And 1382681

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FLYWHEEL (Figure 20)

GASOLINE AND LPG 2.0L



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FLYWHEEL

GASOLINE AND LPG

KEY:
A: 2.2L
B: 2.0L
C: 3.0L

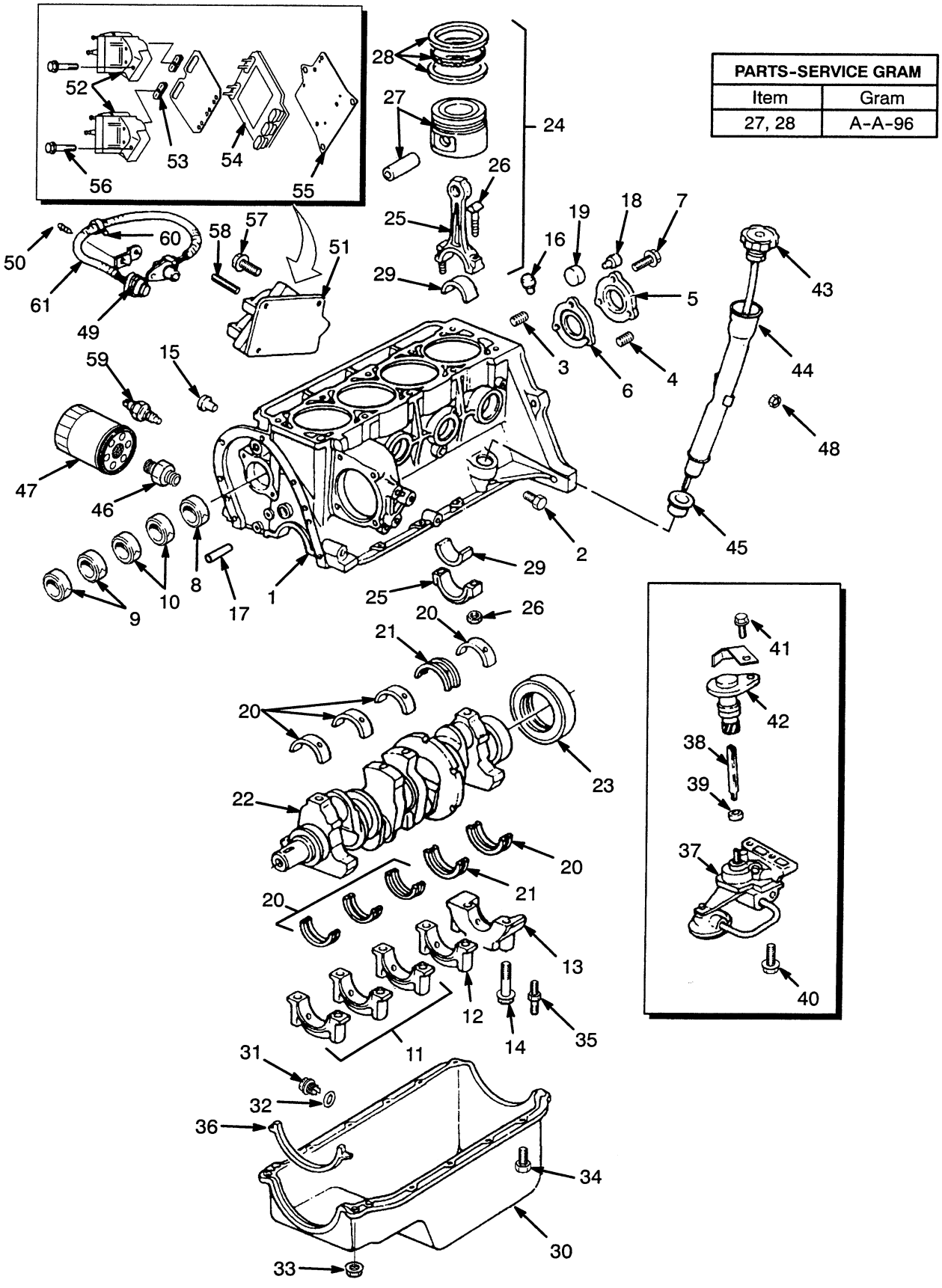
REF		PART NO.	NAME OF PART	QTY A	B	C
1		1365923	Flywheel	1	..	..
1		1337107	Ring Gear	1	..	..
1	a	1352550	Flywheel	..	1	..
1	a	1359983	Ring Gear	..	1	..
1	b	1378558	Flywheel	..	1	..
1	g	1378555	Spacer	..	1	..
1	d	1386800	Spacer	..	1	..
1	a	1375141	Flywheel	..	..	1
1	a	1371595	Ring Gear	..	..	1
1	b	1389359	Flywheel	..	..	1
1	h	1389488	Spacer	..	..	1
1	f	1386799	Spacer	..	..	1
2		1337093	Flexplate Washer	1	1	..
2		1375144	Flexplate Washer	..	..	1
3		1337106	Capscrew	6	..	..
3		1347157	Capscrew	..	6	..
3		221544	Capscrew	..	..	6
4		1335927	Housing	1	..	..
4		1335937	Housing	..	1	..
4		1375145	Housing	..	..	1
5		1337182	Cover	1	..	..
5		1371652	Cover	..	1	..
5		1371584	Cover	..	..	1
6		148962	Capscrew	5	5	..
6		292513	Capscrew	..	..	3
7		292680	Spring Washer	5	5	..
7		292682	Lockwasher	..	..	3
8		302385	Pin	2	2	2
9		293648	Capscrew	6	..	..
9		305371	Capscrew	..	6	..
9		177461	Capscrew	..	..	6
10		296422	Washer	6	..	..
10		296424	Washer	..	6	..
10		221767	Washer	..	..	6
11		1334714	Torque Converter (3.170)	1	..	..
11	c	1343586	Torque Converter (3.480)	..	1	..
11	df	1386795	Torque Converter (3.15)	..	1	1
11	e	1374620	Torque Converter (3.006)	..	..	1
12		1337008	Flexplate	1	..	..
12	c	1337001	Flexplate	..	1	..
12	df	1394915	Flexplate	..	1	1
12	e	1375140	Flexplate	..	..	1
13		296422	Washer	..	6	..
13	f	221769	Washer	..	..	6
14		293614	Capscrew	..	1	..
15		296418	Washer	..	1	..
16		15942	Bolt	4	3	4
17		261379	Washer	4	3	4
18		360387	Adhesive	AR	AR	AR
19		251979	Lubricant	AR	AR	AR
20		18500	Washer	2	2	..

a Last Used On S/N D177B-36284 (2.2L/3.0L), D177B-36289 (2.0L)
b First Used On S/N D177B-36285 (2.2L/3.0L), D177B-36290 (2.0L)
c Last Used On S/N D177B-41853 (2.0L/2.2L)
d First Used On S/N D177B-41854 (2.0L/2.2L)
e Last Used On S/ND177B-43355 (3.0L)
f First Used On S/N D177B-43356 (3.0L)
g Used On S/N D177B-36285 (2.2L/3.0L), D177B-36290 (2.0L) Thru S/N D177B-41854
h Used On S/N D177B-36285 (2.2L/3.0L), D177B-36290 (2.0L) Thru S/N D177B-43357

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CYLINDER BLOCK (Figure 21)

GASOLINE AND LPG 2.2L



PARTS-SERVICE GRAM	
Item	Gram
27, 28	A-A-96

CYLINDER BLOCK

GASOLINE AND LPG

2.2L

KEY:
A: 1993 Engines 1335942 (Gas), 1335943 (LPG)
B: 1994-1995 Engines 1375902 (Gas), 1375901 (LPG)

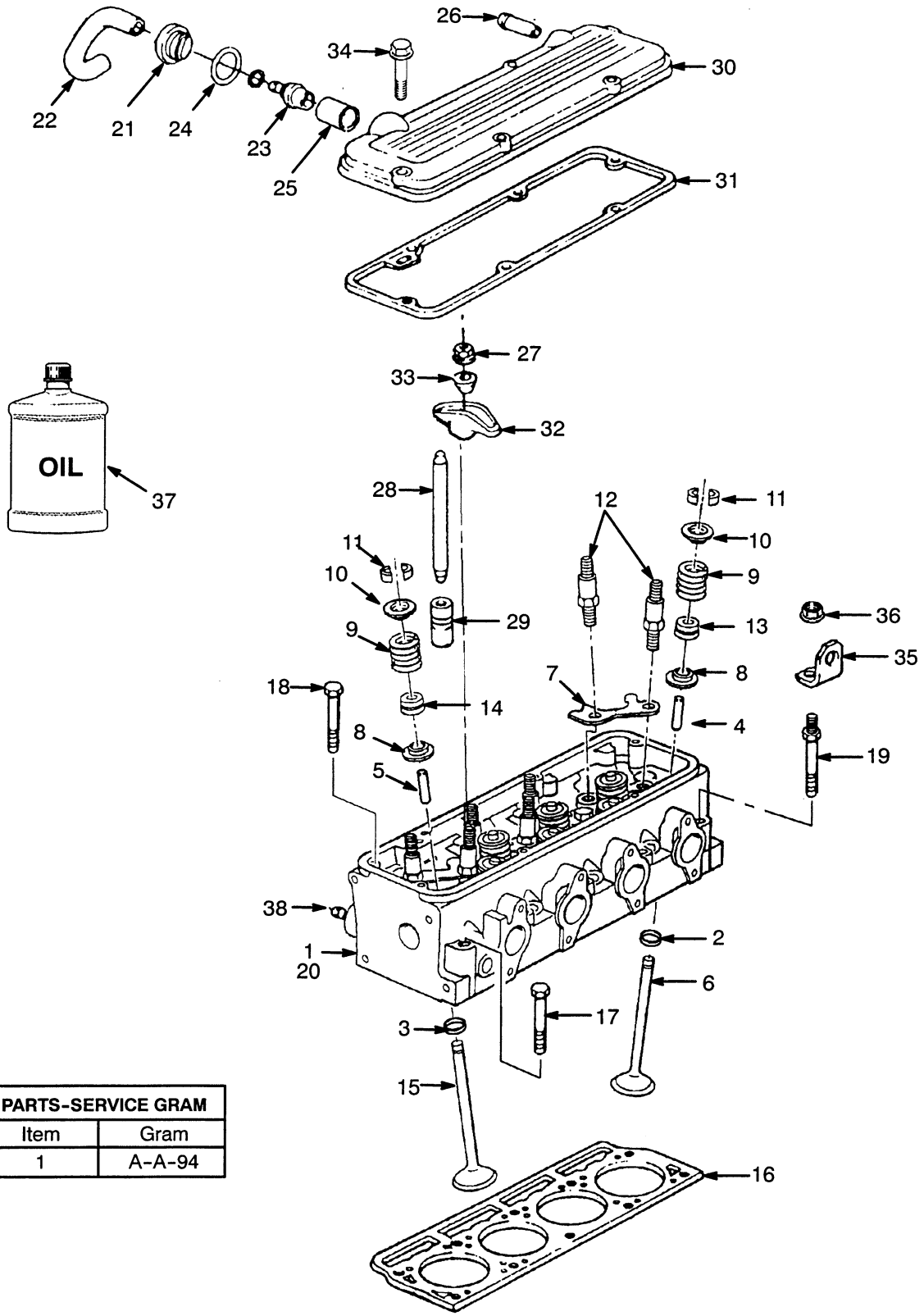
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		.....	Cylinder Block	1	..
1	a	.....	Cylinder Block	..	1
2	a	1360203	Plug	4	4
3	a	1358096	Plug	1	1
4	a	1335480	Plug	1	1
5	a	1358097	Cover	1	1
6	a	1358098	Gasket	1	1
7	a	1358099	Bolt	3	3
8	a	1358150	Bearing (Camshaft)	1	1
9	a	1358151	Bearing (Camshaft)	2	2
10	a	1360204	Bearing (Camshaft)	2	2
11	a	.....	Bearing Cap	3	3
12	a	1358153	Bearing Cap (4)	1	1
13		.....	Bearing Cap (5)	1	1
14	a	1358155	Bolt (Bearing Cap)	10	10
15	a	1358156	Oil By-Pass Valve	1	1
16	a	1358157	Pin	2	2
17	a	1358158	Pin (Front Cover)	2	2
18	a	1358159	Pin	2	2
19	a	274232	Plug	1	1
20	a	1358161	Bearing	8	8
21	a	1358162	Bearing	2	2
22	a	1389097	Crankshaft	1	1
23		1358284	Oil Seal	1	1
24	a	.....	Piston & Rod Assy	4	4
25	a	1339128	Connecting Rod	1	1
26	a	1358287	Bolt	2	2
26	a	1358288	Nut	2	2
27		1339131	Piston (Standard)	1	..
27	a	1377014	Piston (Standard)	..	1
27		1339132	Piston (0.04 mm)	1	..
27	a	1377016	Piston (0.04 mm)	..	1
27		1339133	Piston (0.5 mm)	1	..
27		1377017	Piston (0.5 mm)	..	1
27		1339134	Piston (1.0 mm)	1	..
27		1377018	Piston (1.0 mm)	..	1
28		1339135	Piston Ring Kit (Standard)	1	1
28		1339139	Piston Ring Kit (0.5 mm)	1	1
28		1339144	Piston Ring Kit (1.0 mm)	1	1
29	a	265522	Rod Bearing	8	8
30		1358293	Oil Pan (Assembly)	1	1
31		1358295	Drain Plug	1	1
32		388305	Plug Gasket	1	1
33		1358297	Nut	4	4
34		1358298	Bolt	10	10
35		1360210	Stud	2	2
36		1358299	Seal	1	1
37		.....	Oil Pump	1	1
			☞ Figure 26		
38		1358501	Shaft	1	1
39		1358502	Retainer	1	1
40		1358503	Bolt	1	1
41		1358504	Bolt	2	2
42		1358505	Oil Pump Drive	1	1
43		1358506	Oil Fill Cap	1	1
44		1358507	Tube	1	1
45		1358508	Seal	1	1
46		1358510	Fitting	1	1
47		1380576	Oil Filter	1	1
48		1358509	Nut	1	1
49		1358628	Sensor	1	1
50		1358629	Stud	1	1
51		1360730	Ignition Coil	1	1
52		1362114	Coil	2	2
53		1362115	Seal	2	2
54		1362116	Module	1	1
55		1362117	Plate	1	1
56		1362118	Screw	4	4
57		1358635	Bolt	2	2
58		1358636	Stud	1	1
59		1375878	Fuel Pump Switch	1	1
60		1392536	Clip	..	1
61		1392538	Harness	..	1

a Included In Short Block Assy P/N 1389096 For Engines 1375901 And 1375902

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CYLINDER HEAD (Figure 22)

GASOLINE AND LPG 2.2L



PARTS-SERVICE GRAM	
Item	Gram
1	A-A-94

CYLINDER HEAD

GASOLINE AND LPG 2.2L

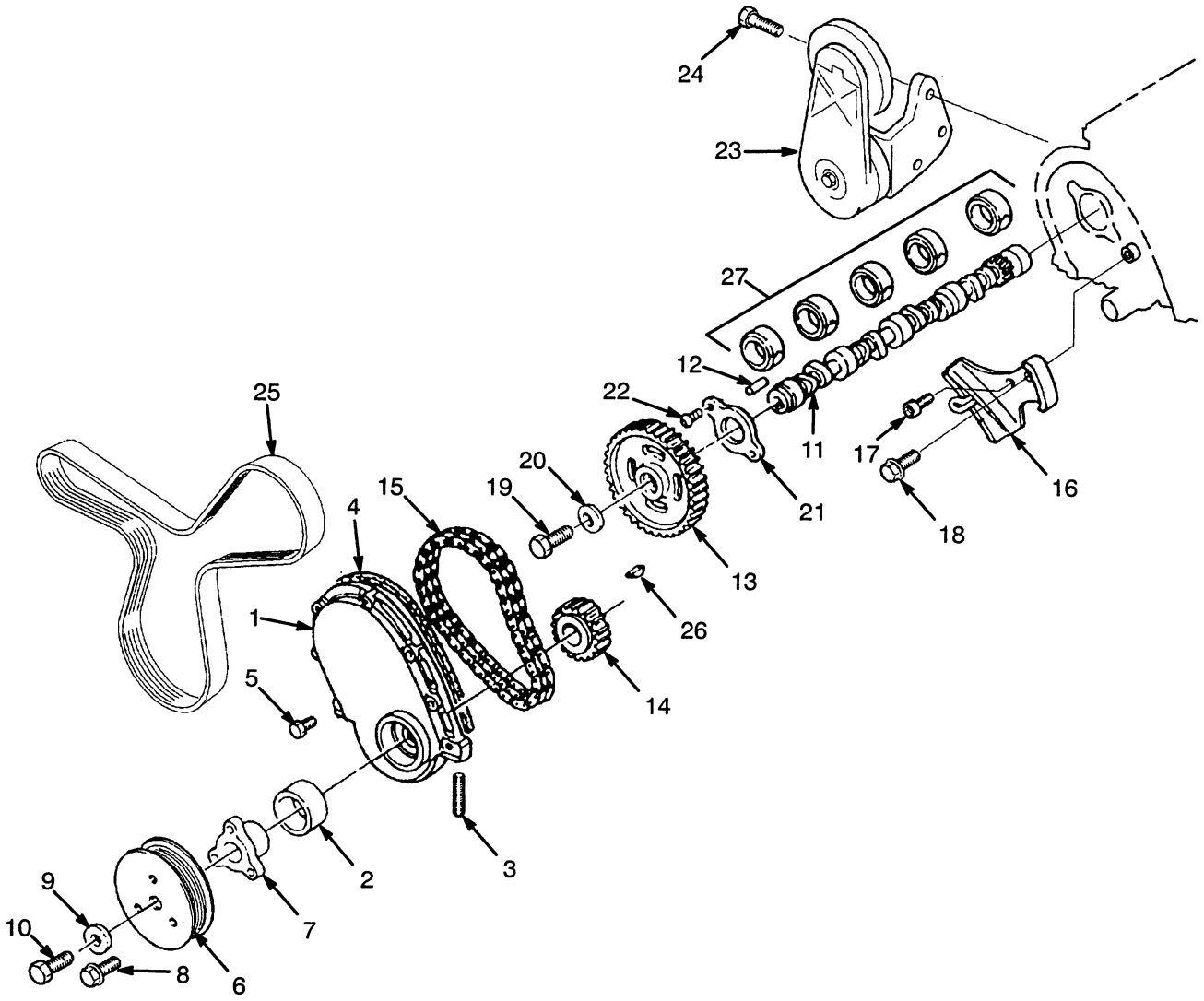
KEY
A: Engines 1335942, 1335943
B: Engines 1375901, 1375902

REF		PART NO.	NAME OF PART	QTY A	QTY B
		1377023	Cylinder Head Assembly With Valves	1	1
1	c	1339159	Cylinder Head	1	..
1	a	1339159	Cylinder Head	..	1
1	b	1376952	Cylinder Head	..	1
2		1358164	Exhaust Insert Valve	4	4
3		1339160	Inlet Insert Valve	4	4
4	c	1339162	Valve Guide (Exhaust)	4	4
5		1339161	Valve Guide (Inlet)	4	4
6		1367542	Exhaust Valve (Standard)	4	..
6	a	1367542	Exhaust Valve (Standard)	..	4
6	b	1378329	Exhaust Valve (Standard)	..	4
6		1339164	Exhaust Valve (0.075 mm)	4	..
6	a	1339164	Exhaust Valve (0.075 mm)	..	4
6	b	1378330	Exhaust Valve (0.127 mm)	..	4
6		1339165	Exhaust Valve (0.150 mm)	4	..
6	a	1339165	Exhaust Valve (0.150 mm)	..	4
6		1339166	Exhaust Valve (0.300 mm)	4	..
6	a	1339166	Exhaust Valve (0.300 mm)	..	4
7		1358166	Guide (Push Rod)	4	4
8		1339163	Seat (Valve Spring)	8	..
8	a	1339163	Seat (Valve Spring)	..	8
8	b	1378322	Seat (Valve Spring)	..	8
9		1331340	Spring & Damper Assembly	8	..
9	a	1331340	Spring & Damper Assembly	..	8
9	b	1378323	Spring	..	8
10		1339153	Cap (Valve Spring)	8	..
10	a	1339153	Cap (Valve Spring)	..	8
10	b	1378324	Cap (Valve Spring)	..	8
11		1339157	Valve Key	16	..
11	a	1339157	Valve Key	..	16
11	b	1378325	Valve Key	..	16
12		1358173	Stud (Valve)	8	..
12	a	1358173	Stud (Valve)	..	8
12	b	1378331	Stud (Valve)	..	8
13		1339154	Oil Valve Stem Seal (Exhaust)	4	..
13		1339154	Oil Valve Stem Seal (Exhaust)	..	4
14		1339155	Oil Seal Valve Stem (Intake)	4	..
14	a	1339155	Oil Seal Valve Stem (Intake)	..	4
14	b	1378326	Oil Seal Valve Stem (Intake)	..	8
15		1367541	Inlet Valve (Standard)	4	..
15	a	1367541	Inlet Valve (Standard)	..	4
15	b	1378327	Inlet Valve (Standard)	..	4
15		1339167	Inlet Valve (0.075 mm)	4	..
15	a	1339167	Inlet Valve (0.075 mm)	..	4
15	b	1378328	Inlet Valve (0.127 mm)	..	4
15		1339168	Inlet Valve (0.150 mm)	4	..
15	a	1339168	Inlet Valve (0.150 mm)	..	4
15		1339169	Inlet Valve (0.300 mm)	4	..
15	a	1339169	Inlet Valve (0.300 mm)	..	4
16		1358276	Gasket	1	1
17		1358277	Bolt (Short)	5	5
18		1358278	Bolt (Long)	1	1
19		1358279	Stud	4	4
20		1335241	Plug	2	2
21		1358512	Retainer	1	1
22		1360211	Hose	1	1
23		1358514	Valve	1	1
24		1358515	Fitting	1	1
25		1358517	Grommet	1	1
26		1358892	Tube	1	1
27		1360729	Nut	8	8
28		1360726	Push Rod	8	8
29		1360727	Lifter	8	8
30		1358574	Rocker Arm Cover	1	1
31		1358625	Gasket	1	1
32		1360728	Rocker Arm	8	8
33		1358626	Ball	8	8
34		1358524	Bolt	6	6
35		....	Bracket	1	1
36		1358282	Nut	1	1
37		3021390	Engine Oil (Bulk)	AR	AR
37		3021391	Engine Oil (55 Gallons)	AR	AR
37		3021392	Engine Oil (12 Quart Case)	AR	AR
38		1383922	Plug	..	1

a Last Used On Date Code TO2143WB
b First Used On Date Code TO2144WB (Identified By An "S" At The End Of The Eight Digit Casting Number On The Cylinder Head)
c Use Replacement Part 1377023

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CAMSHAFT AND TIMING GEAR (Figure 23)
GASOLINE AND LPG 2.2L



REF	PART NO.	NAME OF PART	QTY
1	1358520	Cover (Front End)	1
2	1358521	Seal (Front Oil)	1
3	1358522	Stud	2
4	1358523	Seal	1
5	1358524	Bolt	7
6	1358525	Pulley (Crankshaft)	1
7	1358526	Hub	1
8	1339149	Bolt	3
8	15134	Washer	3
9	1358527	Washer	1
10	1358528	Bolt	1
11	1360220	Camshaft	1
12	1360221	Pin	1
13	1360222	Sprocket (Camshaft)	1
14	1358562	Sprocket (Crankhaft)	1
15	1358563	Timing Chain	1

REF	PART NO.	NAME OF PART	QTY
16	1358564	Tensioner	1
17	1358565	Bolt	1
18	1358566	Bolt	1
19	1360224	Bolt	1
20	1360725	Washer	1
21	1356838	Thrust Plate (Camshaft)	1
22	1358569	Bolt	2
23	1360735	Tensioner (Belt)	1
24	1360736	Bolt	3
25	1360734	Belt (Type G,LP)	1
25	1365825	Belt (Type GS,LPS)	1
26	7882	Key	2
27	.....	Camshaft Bearings	4
		☞ Figure 21	

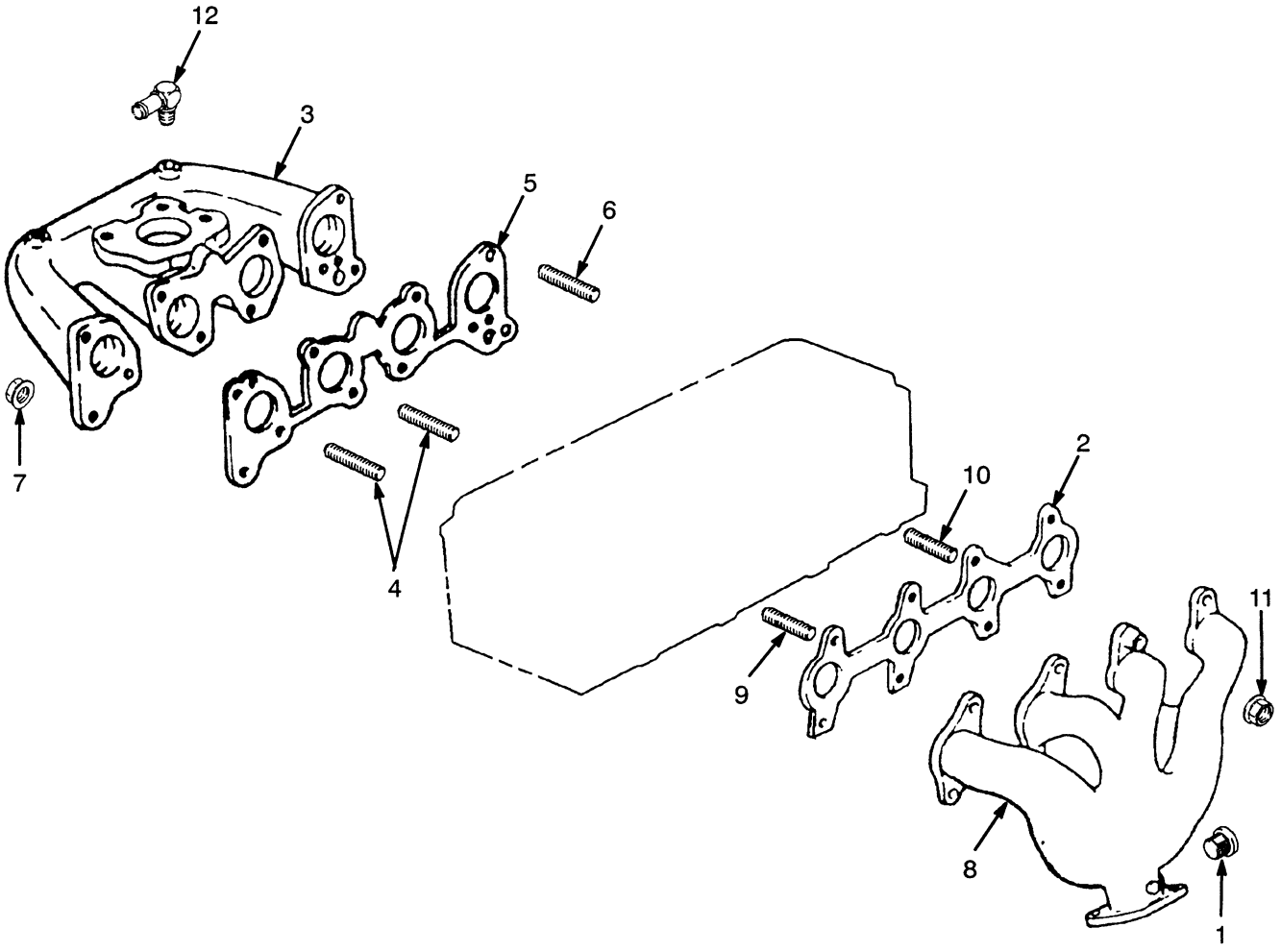
Note: The Above Parts Are Included With Engines 1335942 And 1335943

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MANIFOLD (Figure 24)

GASOLINE AND LPG 2.2L



REF	PART NO.	NAME OF PART	QTY
1	1358639	Plug	1
2	1358557	Gasket	1
3	1358547	Intake Manifold	1
3	1358548	Plug	2
4	1358549	Stud	2
5	1358550	Gasket	1
6	1358551	Stud	8
7	1358552	Nut	12

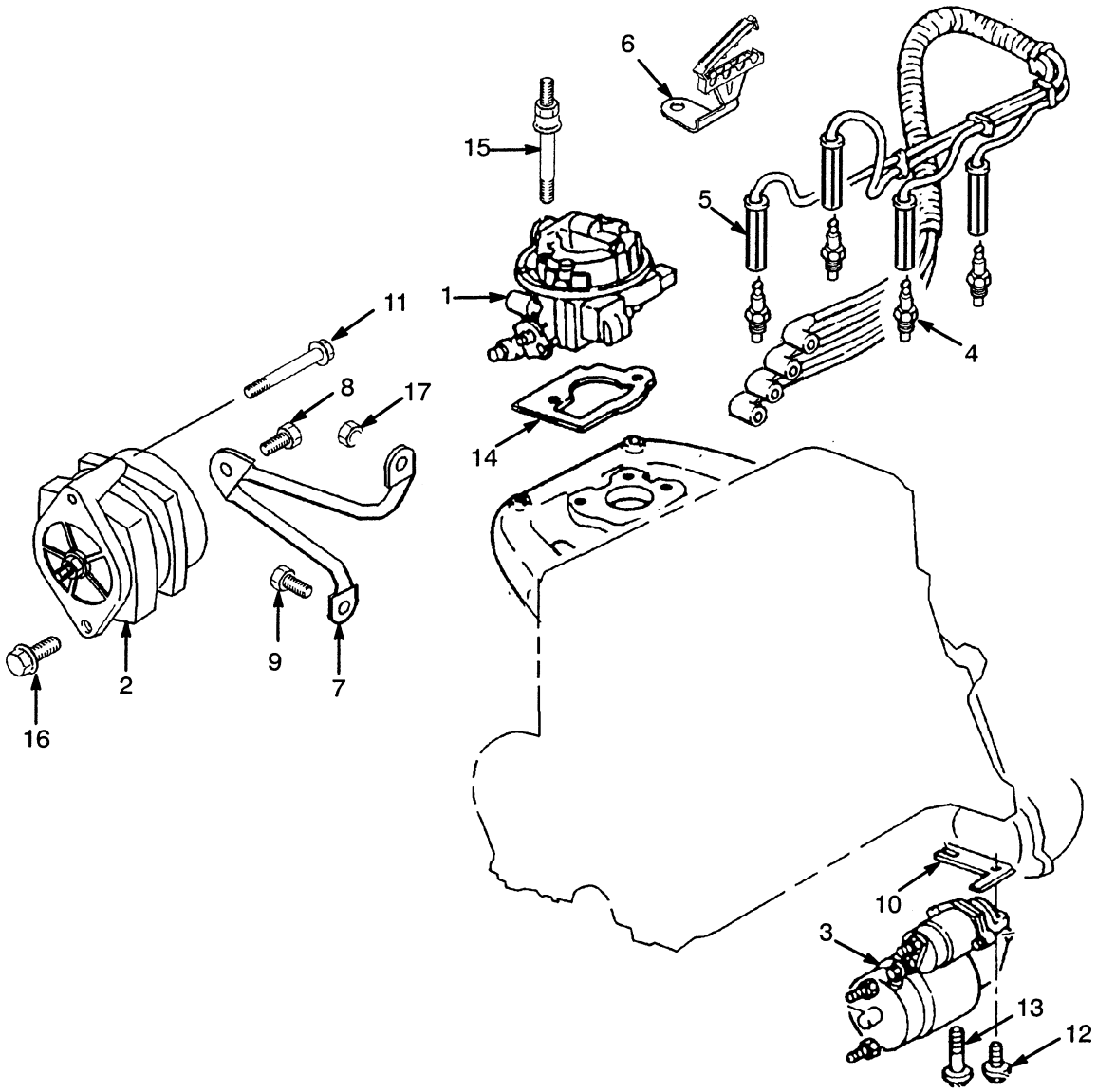
REF	PART NO.	NAME OF PART	QTY
8	1358553	Exhaust Manifold	1
9	1358554	Stud	5
10	1358555	Stud	3
11	1358509	Nut	8
12	15962	Fitting	1

Note: The Above Parts Are Included With Engines 1335942 And 1335943

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FUEL AND ELECTRICAL (Figure 25)

GASOLINE AND LPG 2.2L



REF		PART NO.	NAME OF PART	QTY
1	a	.....	Throttle Body	1
			☞ Figure 84	
2		.....	Alternator	1
			☞ Figure 142	
3		.....	Starter	1
			☞ Figure 151	
4		1378300	Spark Plug	4
5		1360731	Spark Plug Wire Harness	1
6		1358638	Bracket	1
7	b	1360740	Bracket	1
8	b	1360741	Bolt	1
9	bc	1360743	Bolt	1
9	bd	1377069	Bolt	1
10		1360744	Spacer	1

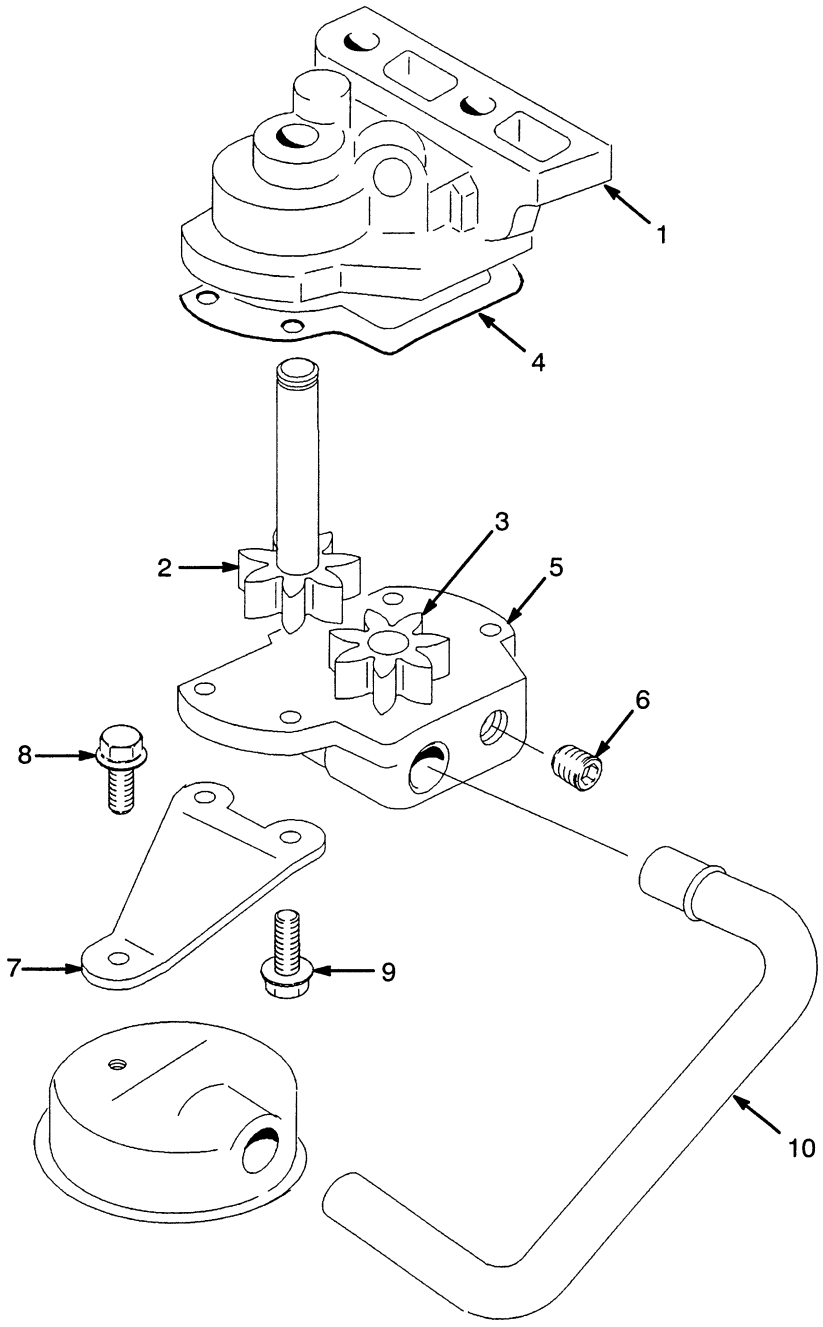
REF		PART NO.	NAME OF PART	QTY
11	b	1360745	Bolt	1
12		1360746	Bolt	1
13		1360747	Bolt	1
14		.....	Gasket	1
			☞ Figure 84	
15		1360749	Stud	2
16		1377069	Capscrew	1
17		1358552	Nut	1

a Gasoline Only
b Types G, LP
c Engine 1335942 And 1335943
d Engine 1375902 And 1375901

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OIL PUMP (Figure 26)

GASOLINE AND LPG 2.2L



REF	PART NO.	NAME OF PART	QTY
	1358500	Oil Pump	1
1	.....	Housing	1
2	.....	Gear (Drive)	1
3	.....	Gear (Driven)	1
4	1360859	Gasket	1
5	1360860	Cover	1
5	1338223	Valve Stop	1
5	268573	Pressure Regulator Valve	1
5	1360862	Spring	1
5	1330453	Pin	1
6	1304786	Plug	1
7	1360864	Brace	1
8	1360865	Bolt	1
9	1360866	Bolt	4
10	.....	Tube	1

Note: The Above Parts Are Included With Engines 1335942 And 1335943

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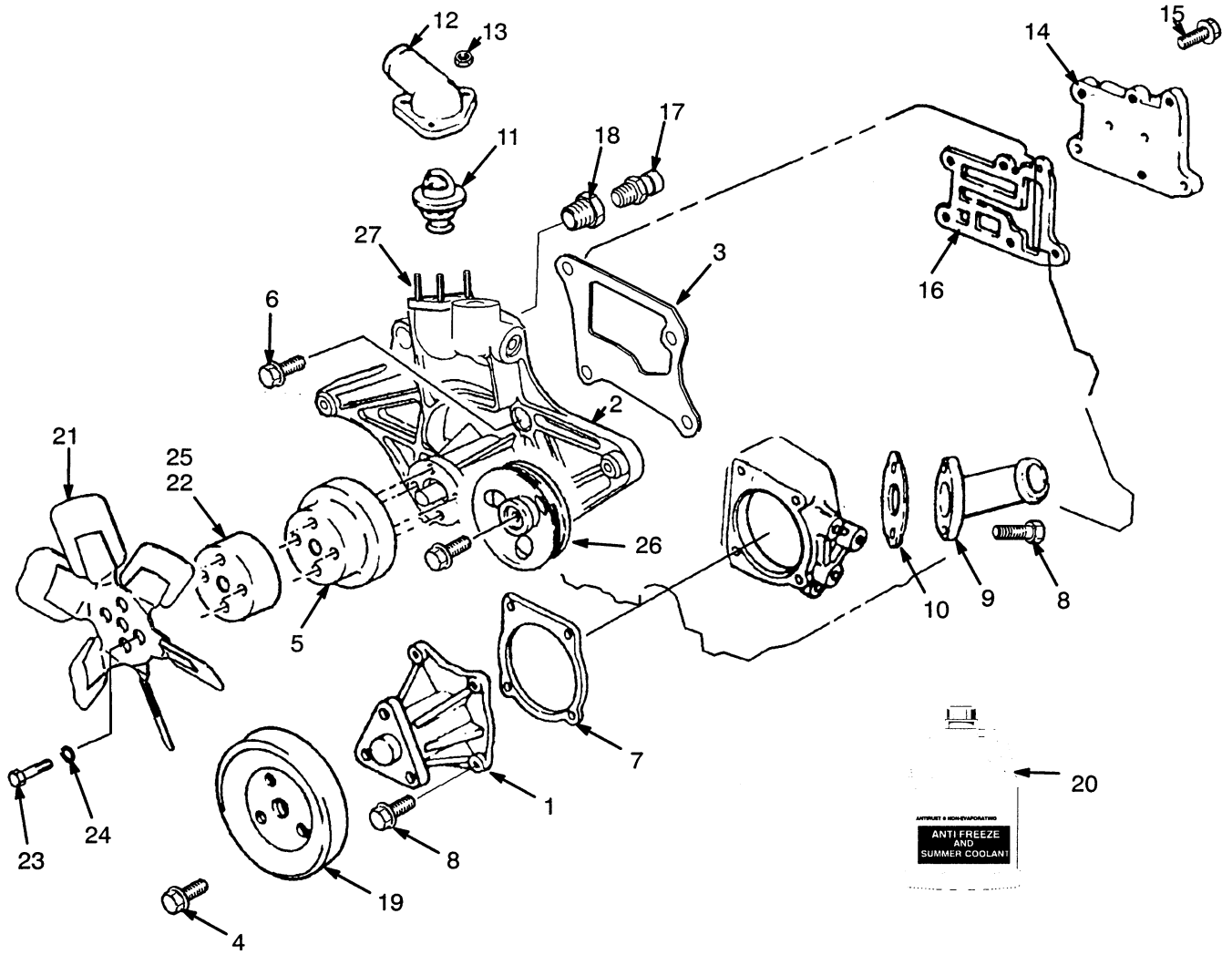
See Service Manual for service procedures

NOTES

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COOLING (Figure 27)

GASOLINE AND LPG 2.2L



REF		PART NO.	NAME OF PART	QTY
1		1358529	Water Pump	1
2	a	1360213	Bracket	1
2		1358532	Bearing	1
2		1360215	Hub	1
3	a	1358534	Gasket (Fan)	1
4		1360738	Bolt	3
5		1358891	Pulley (Fan)	1
6		1452424	Bolt	4
7		1358536	Water Pump Gasket	1
8		1360216	Bolt	6
9		1360217	Water Inlet	1
10		1358539	Gasket	1
11		1358540	Thermostat	1
11		1339152	Seal	1
12		1358541	Water Outlet	1
13		1358543	Nut	3
14		1339156	Cover	1

REF	PART NO.	NAME OF PART	QTY
15	1358545	Bolt	6
16	1367543	Gasket	1
17	1314381	Coolant Sensor	1
18	1358640	Reducer	1
19	1360737	Water Pump Pulley	1
20	3002338	Antifreeze (1 Gallon)	AR
21	1347051	Fan	1
22	1339691	Spacer	1
23	18521	Capscrew	4
24	15155	Lockwasher	4
25	1368928	Spacer	1
26	1360733	Pulley	1
27	1358522	Stud	3

a Included In Kit 864848

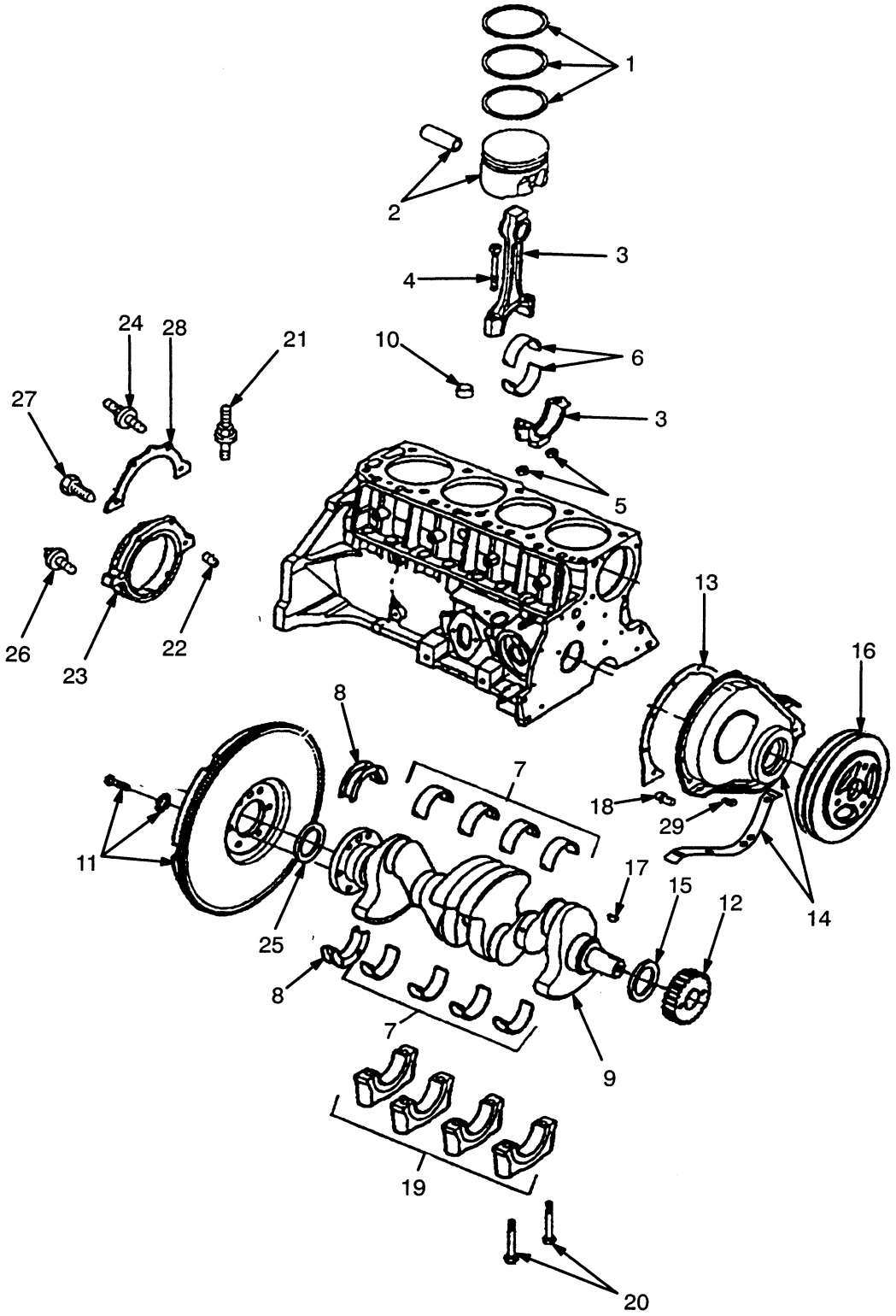
Note: The Above Parts Are Included With Engines 1335942 And 1335943

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See Service Manual for service procedures

CRANKSHAFT AND PISTON (Figure 28)

GASOLINE AND LPG 3.0L



CRANKSHAFT AND PISTON

GASOLINE AND LPG 3.0L

KEY:
A: 1996
B: 1997
C: 1998

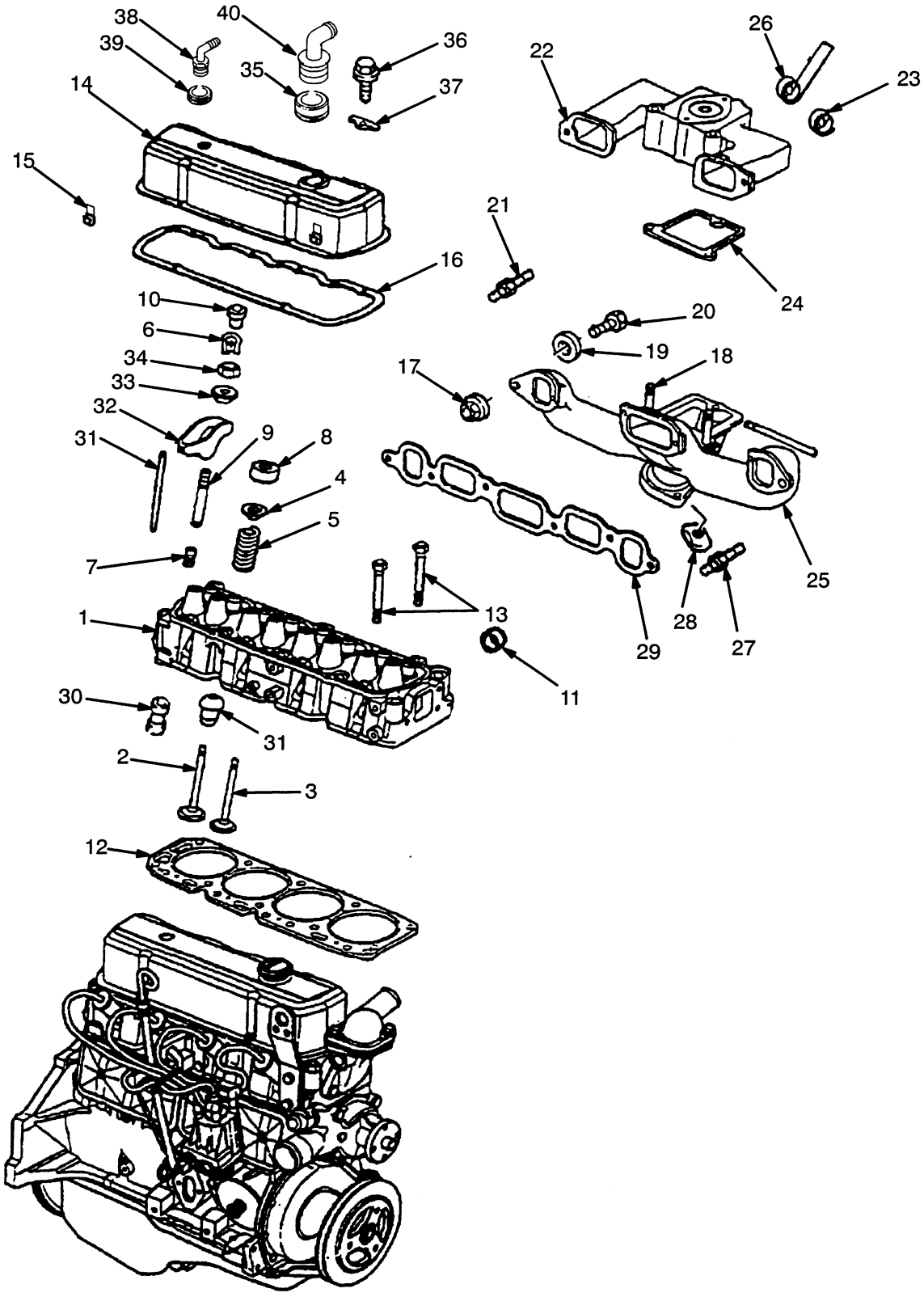
REF		PART NO.	NAME OF PART	QTY A	B	C
	b	1380583	Engine	1	..	..
	c	1393580	Engine	..	1	..
	e	1453580	Engine	..	..	1
1	ad	306774	Piston Ring Set (Standard)	4	4	4
1		375550	Piston Ring Set (0.760 mm)	4	4	4
2	ad	304619	Piston & Pin (Standard)	4	4	4
2		304620	Piston & Pin (0.510 mm)	4	4	4
3	ad	301190	Rod Assembly	4	4	4
4	ad	289344	Bolt	2	2	2
5	ad	1375954	Nut	2	2	2
6	ad	169964	Rod Bearing (Standard)	8	8	8
6		169966	Rod Bearing (0.051 mm)	8	8	8
6		169752	Rod Bearing (0.510 mm)	8	8	8
6		169965	Rod Bearing (0.025 mm)	8	8	8
6		169967	Rod Bearing (0.250 mm)	8	8	8
7	ad	1331335	Main Bearing (Standard)	4	4	4
7		1331336	Main Bearing (0.025 mm)	4	4	4
7		149814	Main Bearing (0.250 mm)	4	4	4
7		160602	Main Bearing (0.510 mm)	4	4	4
7		149816	Main Bearing (0.760 mm)	4	4	4
8	ad	149805	Main Bearing (Standard)	1	1	1
8		1331325	Main Bearing (0.025 mm)	1	1	1
8		1378320	Main Bearing (0.640 mm)	1	1	1
9	ad	1331342	Crankshaft	1	1	..
9	e	1455601	Crankshaft	..	..	1
10	ad	164022	Plug	1	1	1
11		.....	Flywheel	1	1	1
			☞ Figure 20			
12		265509	Gear	1	1	1
13		388321	Gasket	1	1	1
14		189609	Cover Assembly	1	1	1
15		1374107	Oil Seal (Front)	1	1	1
16		169942	Damper	1	1	1
17	a	7882	Key	1	1	1
18	ad	148827	Oil Nozzle	1	1	1
19	ad	244903	Main Bearing Cap	4	4	4
20	ad	159973	Bolt	10	10	10
21	a	164023	Stud	1	1	1
22		375601	Pin	1	1	1
23		1335227	Retainer Assembly	1	1	..
23	e	375572	Retainer Assembly	..	..	1
24		388364	Stud	2	2	2
25		1335228	Seal	1	1	..
25	e	375555	Seal	..	..	1
26		1375953	Bolt	1	1	1
27		1330459	Bolt	2	2	2
28		1335212	Gasket	1	1	1
29		370169	Screw & Washer	8	8	8

a Included In Short Block 1331338
b Last Used On S/N D177B-34696
c Used On S/N D177B-34697 Thru S/N D177B-39730
d Included In Short Block 1393427
e First Used On S/N D177B-39731

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CYLINDER HEAD (Figure 29)

GASOLINE AND LPG 3.0L



CYLINDER HEAD

GASOLINE AND LPG 3.0L

KEY:
A: 1996
B: 1997
C: 1998

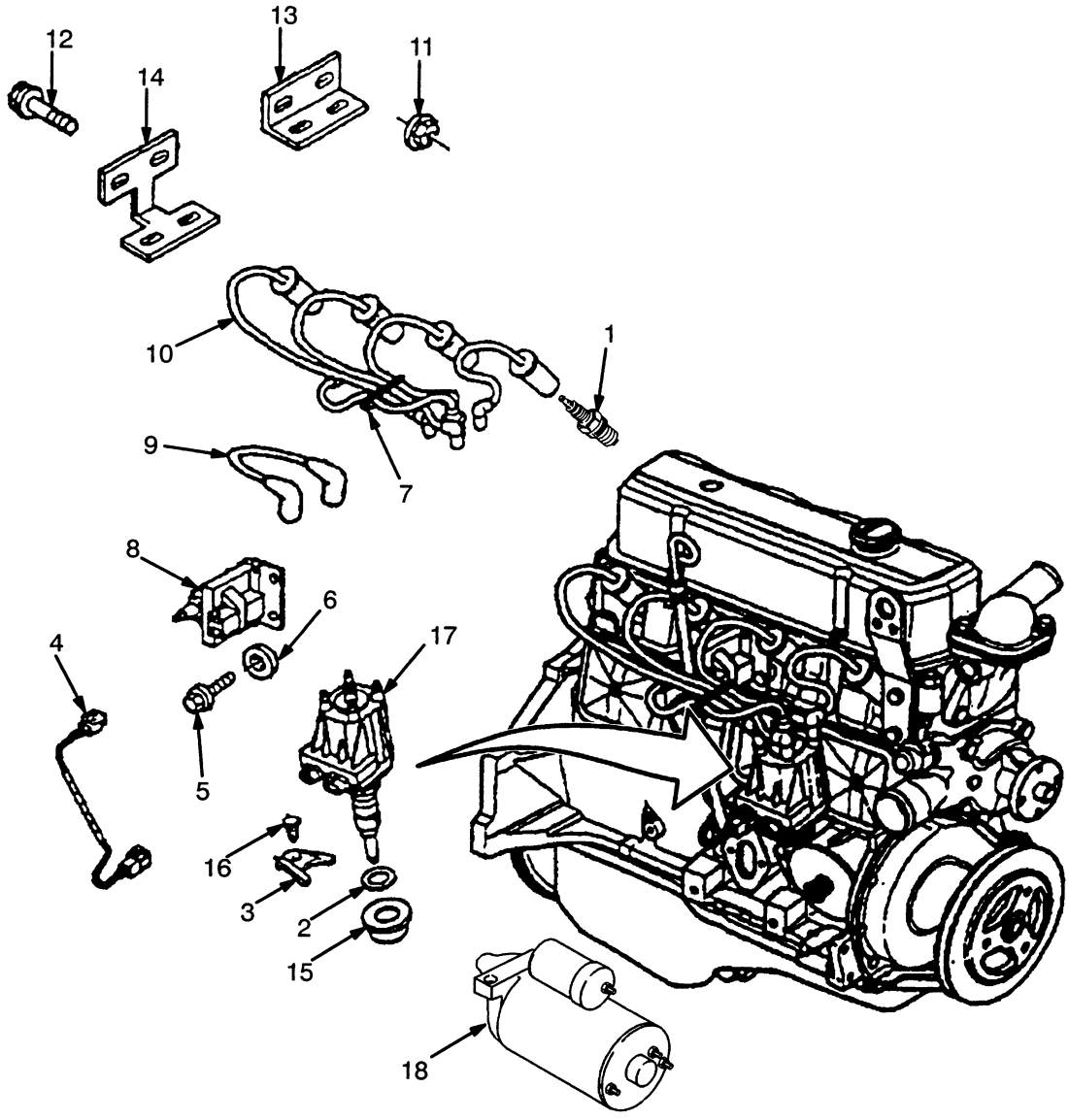
REF		PART NO.	NAME OF PART	QTY A	QTY B	QTY C
	b	1380583	Engine	1	..	..
	c	1393580	Engine	..	1	..
	d	1453580	Engine	..	..	1
1		1378317	Cylinder Head	1	1	1
2		244909	Inlet Valve (Standard)	4	4	4
2		149864	Inlet Valve (0.076 mm)	4	4	4
2		244910	Inlet Valve (0.380 mm)	4	4	4
2		244911	Inlet Valve (0.760 mm)	4	4	4
3		381250	Exhaust Valve (Standard)	4	4	4
3		381270	Exhaust Valve (0.380 mm)	4	4	4
3		381271	Exhaust Valve (0.760 mm)	4	4	4
4		149868	Cap	8	8	8
5		145172	Valve Spring	8	8	8
6		263750	Valve Key	16	16	16
7		145173	Valve Seal	8	8	8
8		314539	Shield	8	8	8
9		149857	Stud (0.076 mm)	8	8	8
9	a	149858	Stud (0.330 mm)	8	8	8
10		149867	Rotator	4	4	4
11		160361	Plug	2	2	2
12		1331343	Gasket	1	1	1
13		149977	Bolt	10	10	10
14		1331344	Valve Cover	1	1	1
15		1335825	Clip	2	2	..
16		388323	Gasket	1	1	1
17		1375954	Nut	8	8	8
18		149889	Stud	2	2	2
19		15157	Lockwasher	6	6	..
19	d	1335219	Lockwasher	..	..	6
20		1331349	Bolt	6	6	6
21		254686	Stud	1	1	1
22		244922	Inlet Manifold	1	1	1
23		244925	Thermostat	1	1	1
24		1330772	Gasket	1	1	1
25		271949	Exhaust Manifold	1	1	1
26		160377	Spring	1	1	1
27		1300295	Stud	2	2	2
28		149888	Clamp	4	4	4
29		1354046	Gasket	1	1	1
30		263839	Hydraulic Lifter	8	8	8
31		1354047	Pushrod Assembly	8	8	8
32		245202	Rocker Arm	8	8	8
33		189614	Ball	8	8	8
34		301195	Nut	8	8	8
35		1376789	Grommet	1	1	1
36		1374108	Bolt	4	4	4
37		149978	Special Washer	5	5	5
38		321734	Vent Valve	1	1	1
38		85766	Hose	1	1	1
39		164050	Grommet	1	1	1
40		379407	Fitting	1	1	1

a Optional
b Last Used On S/N D177B-34696
c Used On S/N D177B-34697 Thru S/N D177B-39730
d First Used On S/N D177B-39731

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ELECTRICAL (Figure 30)

GASOLINE AND LPG 3.0L



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ELECTRICAL

GASOLINE AND LPG 3.0L

KEY:
A: 1996
B: 1997
C: 1998

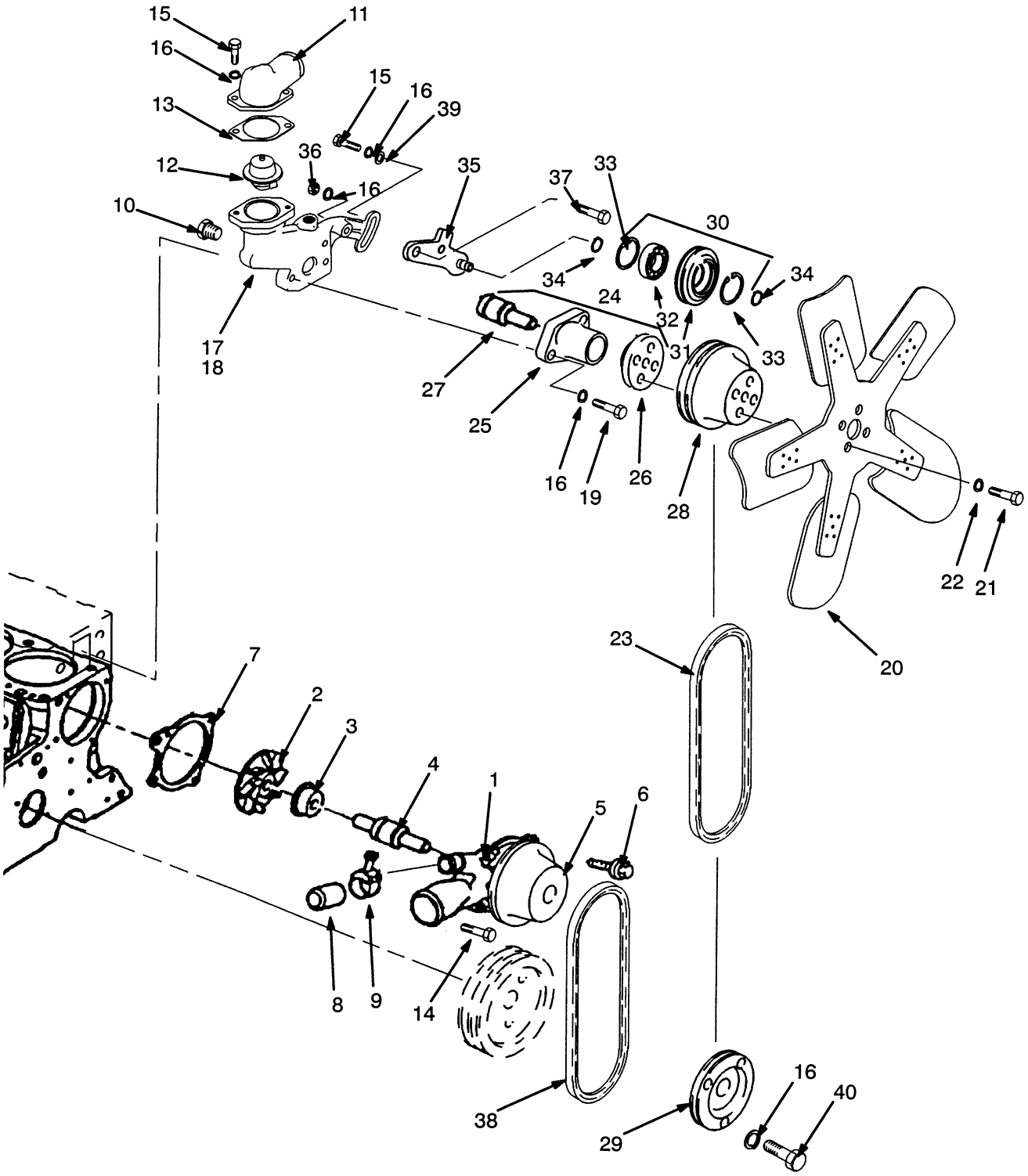
REF		PART NO.	NAME OF PART	QTY A	B	C
	b	1380583	Engine	1	..	..
	c	1393580	Engine	..	1	..
	d	1453580	Engine	..	..	1
1		281844	Spark Plug	4	4	4
2		1330467	Gasket	1	1	1
3		274247	Clamp	1	1	1
4		1331329	Wire Assembly	1	1	1
5		1335827	Bolt	2	2	..
5	d	1455602	Bolt	..	..	2
6		15134	Washer	2	2	2
7		1335828	Retainer	1	1	1
8		1331331	Ignition Coil	1	1	1
9		1337665	Wire Assembly	1	1	1
10		1337666	Spark Plug Harness	1	1	1
11		1374323	Nut	4	4	..
12		1371237	Bolt	4	4	..
13		1378318	Bracket (Top)	1	1	1
14		1378319	Bracket (Bottom)	1	1	1
15	a	159974	Washer	1	1	1
16		1331349	Screw	1	1	1
17		.....	Distributor ☞ Figure 140	1	1	1
18		.....	Starter ☞ Figure 151	1	1	1

a Included In Short Block 1393427
b Last Used On S/N D177B-34696
c Used On S/N D177B-34697 Thru S/N D177B-39730
d First Used On S/N D177B-39731

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COOLING (Figure 31)

GASOLINE AND LPG 3.0L



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COOLING

GASOLINE AND LPG 3.0L

KEY:
A: 1996
B: 1997
C: 1998

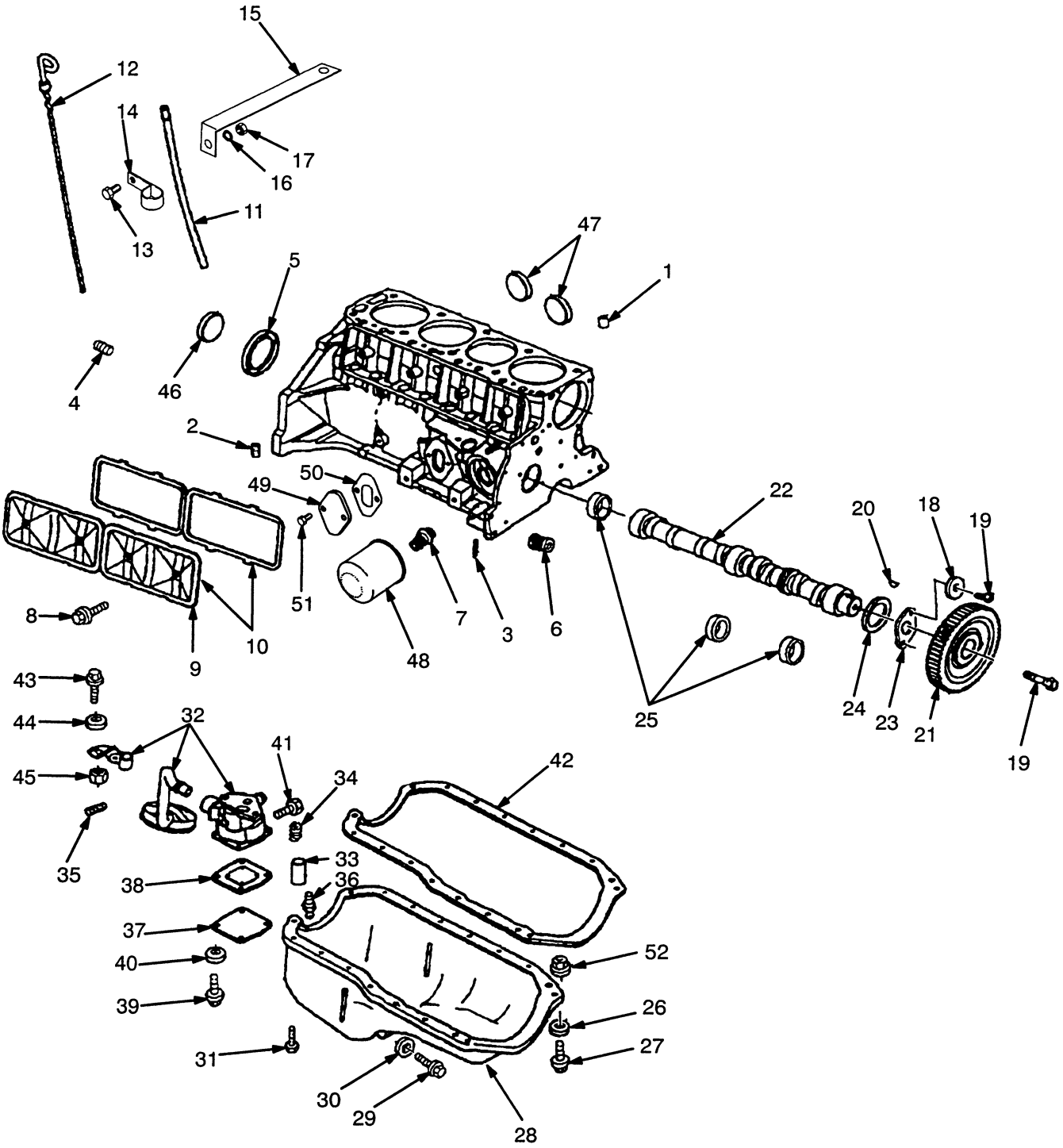
REF		PART NO.	NAME OF PART	QTY A	B	C
	b	1380583	Engine	1	..	..
	c	1393580	Engine	..	1	..
	d	1453580	Engine	..	..	1
1	a	.....	Water Pump	1	1	1
2	a	.....	Impeller	1	1	1
3	a	.....	Seal	1	1	1
4	a	.....	Bearing	1	1	1
5	a	.....	Pulley	1	1	1
6		221455	Capscrew	2	2	2
7	a	1330456	Gasket	1	1	1
8		149929	Cap	1	1	1
9		1335224	Clamp	1	1	1
10		14386	Plug	1	1	1
11		1317468	Outlet	1	1	1
12		1450696	Thermostat (180° F)	1	1	1
13		1330725	Gasket	1	1	1
14		18508	Capscrew	2	2	2
15		16805	Capscrew	3	3	3
16		15156	Lockwasher	10	10	10
17		1371582	Thermostat Housing	1	1	1
18		264159	Adhesive	AR	AR	AR
19		18538	Capscrew	3	3	3
20		1375642	Fan	1	1	1
21		16825	Capscrew	4	4	4
22		15155	Lockwasher	4	4	4
23		191845	V-Belt	1	1	1
24		1375604	Drive (Fan)	1	1	1
24		1456071	Drive (Fan) Sub assembly	1	1	1
25		....	Housing	1	1	1
26		1360215	Hub	1	1	1
27		1358532	Bearing	1	1	1
28		1371524	Fan Pulley	1	1	1
29		1375196	Crankshaft Pulley	1	1	1
30		1359103	Idler Assembly	1	1	1
31		1359102	Pulley	1	1	1
32		1479128	Bearing	1	1	1
33		12928	Snap Ring	2	2	2
34		54123	Snap Ring	2	2	2
35		1359100	Bracket	1	1	1
36		15056	Nut	1	1	1
37		16379	Capscrew	1	1	1
38		188643	V-Belt (Pump)	1	1	1
39		296421	Washer	1	1	1
40		16814	Capscrew	3	3	3

a Included In Water Pump Kit 1383997
b Last Used On S/N D177B-34696
c Used On S/N D177B-34697 Thru S/N D177B-39730
d First Used On S/ND177B-39731

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CAMSHAFT AND OIL PAN (Figure 32)

GASOLINE AND LPG 3.0L



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CAMSHAFT AND OIL PAN

GASOLINE AND LPG 3.0L

KEY:
A: 1996
B: 1997
C: 1998

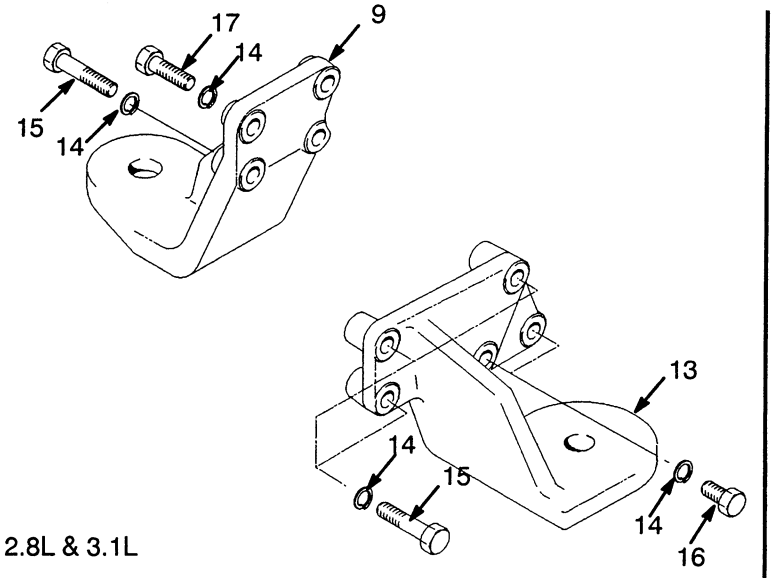
REF		PART NO.	NAME OF PART	QTY A	B	C
	b	1380583	Engine	1	..	..
	c	1393580	Engine	..	1	..
	d	1453580	Engine	..	..	1
1	a	1354814	Pump Shaft Bearing	1	1	1
2	a	1331341	Plug	1	1	1
3	a	159977	Pin	8	8	8
4	a	1335499	Pin	2	2	2
5	a	164017	Plug	1	1	1
6	a	1375952	By-pass Valve	1	1	1
7		159942	Fitting	1	1	1
8		149976	Bolt	4	4	4
9		244933	Cover	1	1	1
10		388322	Gasket	1	1	1
10	c	1457062	Sealant	1	1	1
11		1458089	Tube	1	1	1
12		1335222	Dipstick	1	1	1
13	e	292500	Capscrew	1	1	1
14	e	132131	Clamp	1	1	1
15	ef	1376763	Brace	1	1	1
16	e	292680	Lockwasher	1	1	1
17	e	136687	Nut	1	1	1
18		15923	Washer	2	2	2
19		133469	Capscrew	3	3	3
20		7882	Key	1	1	1
21		244927	Gear	1	1	1
21	c	149898	Gear	1	1	1
22		1362070	Camshaft	1	1	1
23		1356838	Thrust Plate	1	1	1
24		1324006	Spacer	1	1	1
25	a	149819	Bearing	3	3	3
26		15154	Lockwasher	14	14	14
27		1376876	Bolt	14	14	14
28		1360759	Oil Pan	1	1	1
29		308624	Screw	1	1	1
30		388305	Gasket	1	1	1
31		16374	Capscrew	2	2	2
32		1312813	Oil Pump	1	1	1
33		145176	Oil Pressure Valve	1	1	1
34		145177	Spring	1	1	1
35		1330453	Pin	1	1	1
36		177563	Plug	1	1	1
37		149846	Cover	1	1	1
38		149847	Gasket	1	1	1
39		16709	Screw	4	4	4
40		15154	Lockwasher	4	4	4
41		221453	Capscrew	3	3	3
42		1330452	Gasket	1	1	1
43		221420	Capscrew	1	1	1
44		388316	Washer	1	1	1
45		145641	Nut	1	1	1
46	a	169719	Plug	1	1	1
47	a	169718	Plug	2	2	2
48		127644	Oil Filter	1	1	1
49		145949	Cover	1	1	1
50		149934	Gasket	1	1	1
51		199566	Capscrew	2	2	2
52		15055	Nut	2	2	2

a Included In Short Block 1331338 & 1393427
b Last Used On S/N D177B-34696
c Used On S/N D177B-34697 Thru S/N D177B-39730
d First Used On S/N D177B-39731
e Last Used On S/N D177B-45156
f Service Use Only

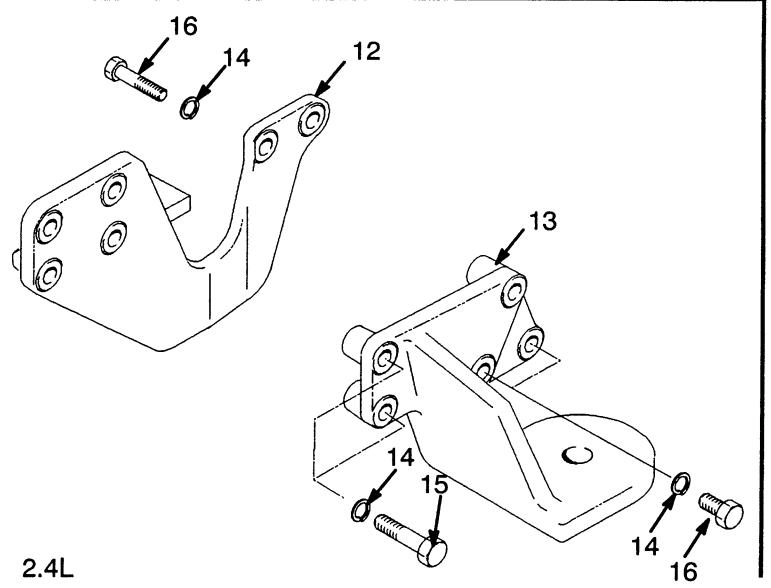
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ENGINE MOUNT (Figure 33)

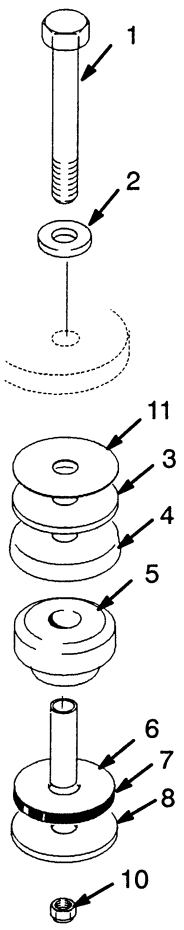
DIESEL



2.8L & 3.1L



2.4L



KEY:
A: 2.4L Engine
B: 2.8L & 3.1L Engine

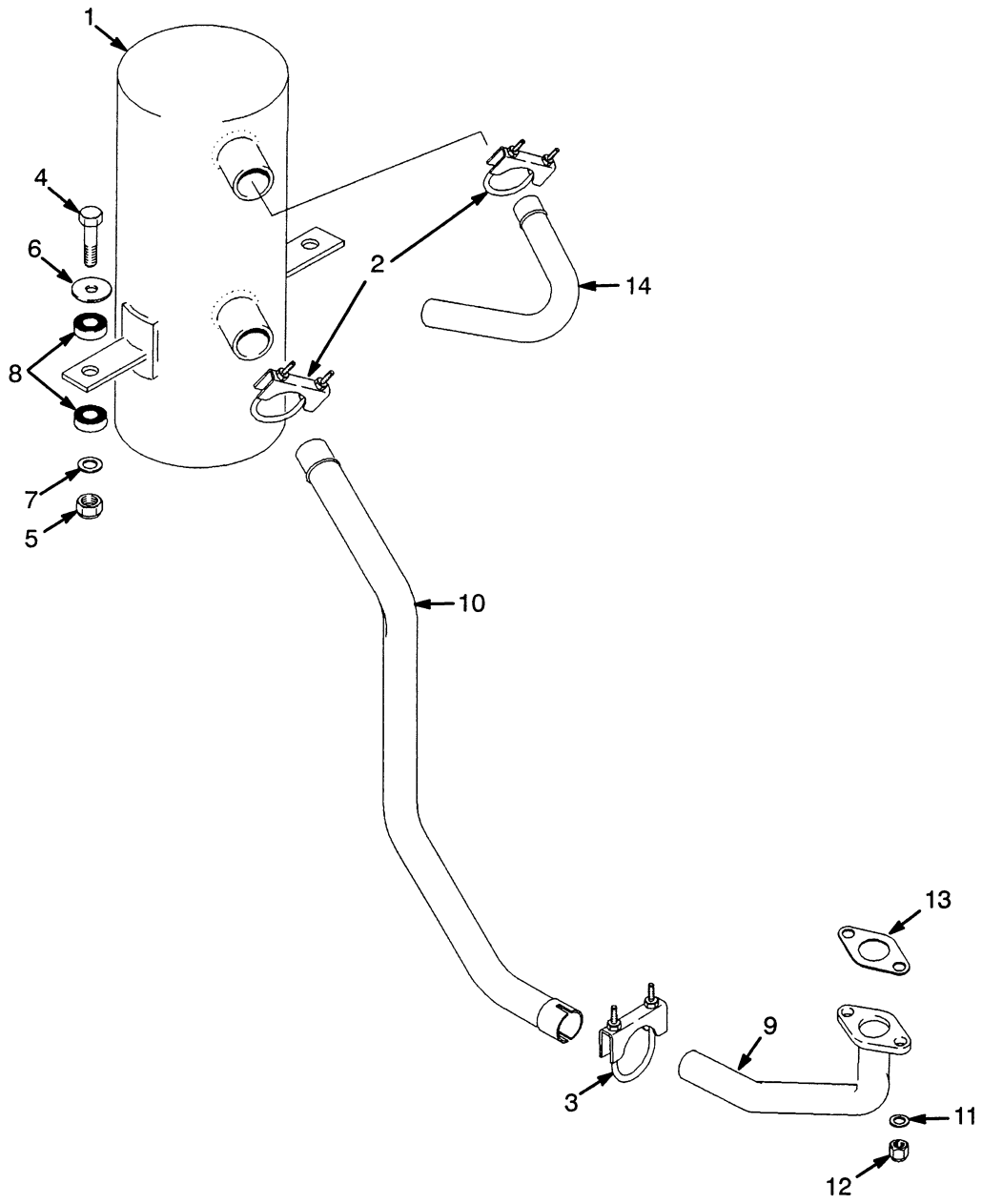
REF	PART NO.	NAME OF PART	QTY A	QTY B
1	293658	Capscrew	2	2
2	300932	Washer	2	2
3	340796	Washer	2	2
4	1351098	Cup	2	2
5	1351096	Isolator	2	2
6	1351061	Spacer	2	2
7	1351060	Bumper	2	2
8	300939	Washer	2	2
9	1339743	Bracket (LH)	..	1
10	300937	Nut	2	2
11	1351017	Spacer	AR	AR
12	1335981	Bracket (LH)	1	..
13	1335983	Bracket (RH)	1	1
14	292682	Lockwasher	10	9
15	1329259	Capscrew	2	5
16	309740	Capscrew	8	2
17	1329258	Capscrew	..	2

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EXHAUST (Figure 34)

DIESEL 2.4L



REF		PART NO.	NAME OF PART	QTY
1		1338282	Muffler	1
1	a	1350261	Muffler	1
2		68968	Clamp	1
3		195769	Clamp	1
4		292517	Capscrew	2
5		316826	Nut	2
6		1351176	Washer	2
7		320159	Washer	2
8		1351177	Spacer	4

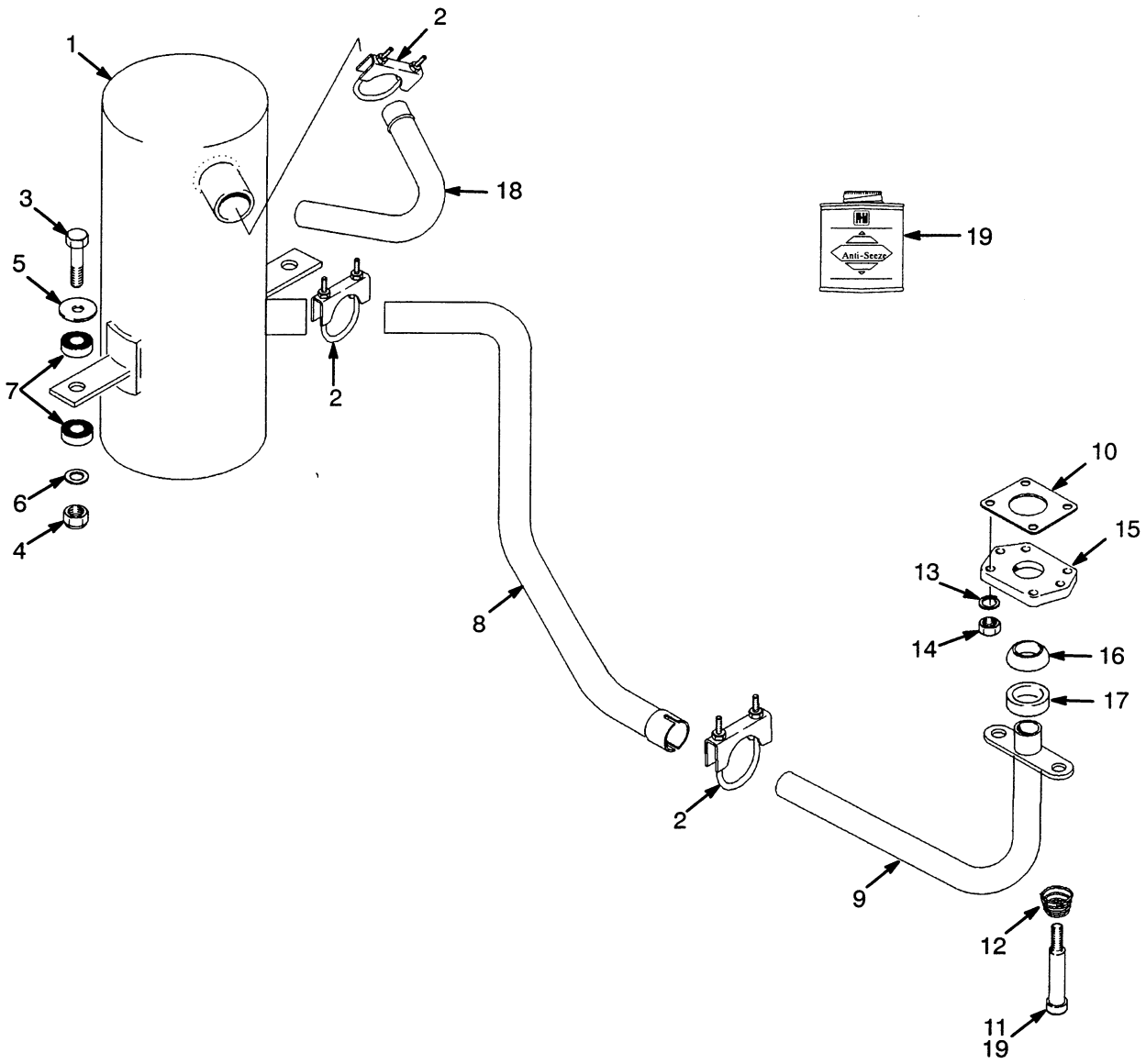
REF	PART NO.	NAME OF PART	QTY
9	1339328	Pipe	1
10	1347128	Tube	1
11	292682	Lockwasher	2
12	303118	Nut	2
13	308995	Gasket	1
14	1338276	Pipe	1

a Type DS

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EXHAUST (Figure 35)

DIESEL 2.8L & 3.1L



REF		PART NO.	NAME OF PART	QTY
1		1338278	Muffler	1
1	a	1350260	Muffler	1
2		68968	Clamp	3
3		292517	Capscrew	2
4		316826	Nut	2
5		1351176	Washer	2
6		320159	Washer	2
7		1351177	Spacer	4
8	b	1374603	Pipe	1
8	c	1383013	Pipe	1
9	b	1343471	Tube	1
9	c	1374604	Tube	1
10		1335954	Gasket	1

REF	PART NO.	NAME OF PART	QTY
11	1337118	Capscrew	2
12	1335898	Spring	2
13	292682	Lockwasher	4
14	136692	Nut	4
15	1343466	Adaptor	1
16	1338268	Seal	1
17	1338264	Spacer	1
18	1338276	Pipe	1
19	251979	Lubricant	AR

a Type DS
b Last Used On S/N D177B-16011
c First Used On S/N D177B-16012

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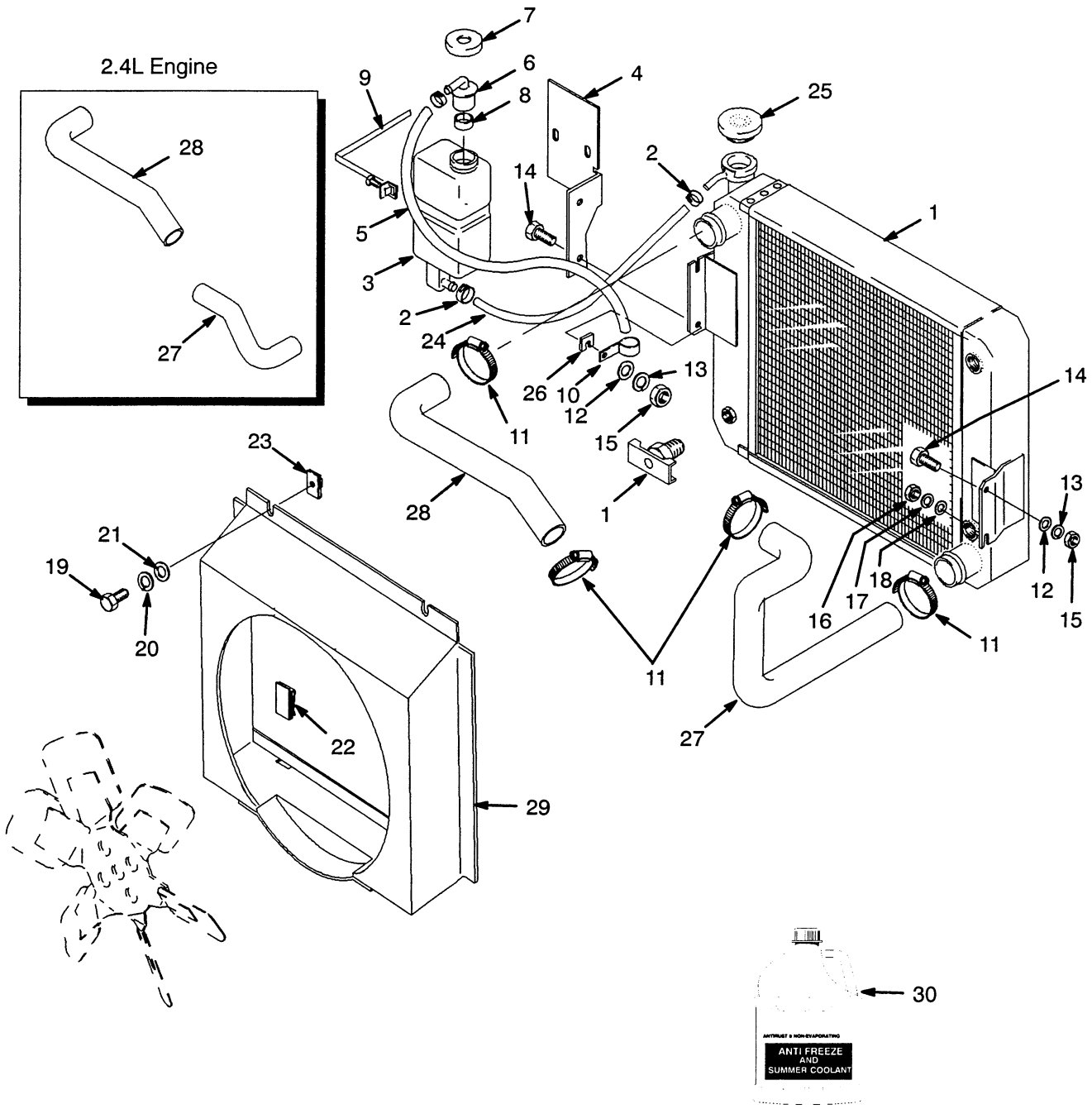
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NOTES

RADIATOR AND HOSES (Figure 36)

DIESEL



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RADIATOR AND HOSES

DIESEL

KEY:
A: 2.4L
B: 2.8L & 3.1L

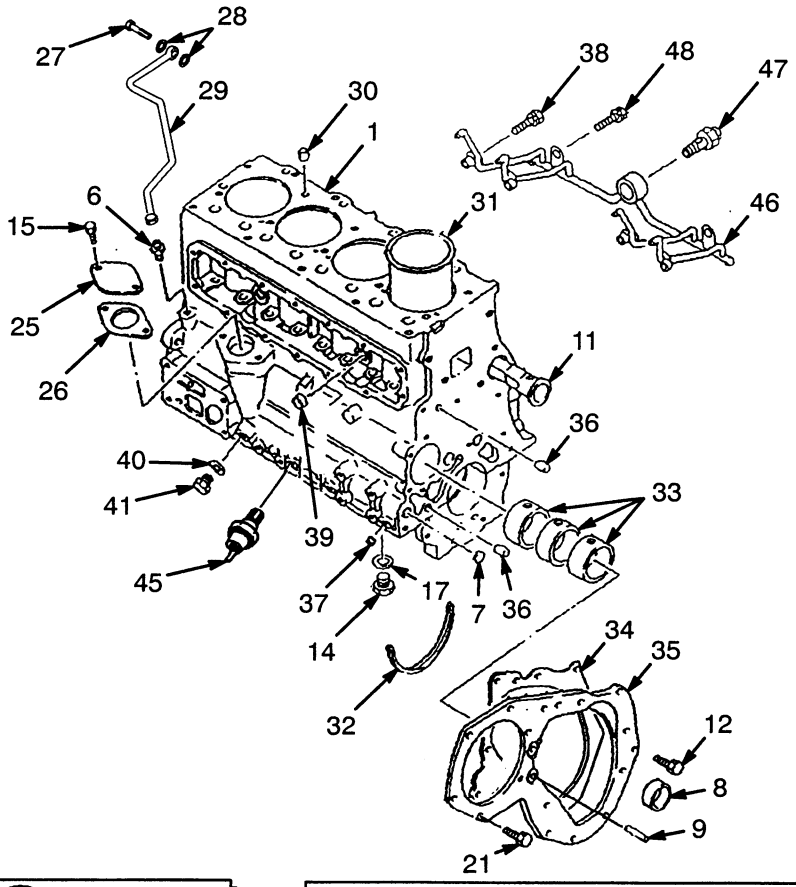
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1337002	Radiator (10 Fins/Inch)	1	1
1	a	1343618	Radiator (6.5 Fins/Inch)	1	1
1		1357717	Oil Cooler	1	1
1		1357721	Draincock	1	1
2		168718	Clamp	2	2
3		1347026	Reservoir	1	1
4		1347072	Bracket	1	1
5		1457312	Hose	1	1
6		345453	Outlet	1	1
7		345454	Cap	1	1
8		336550	Bushing	1	1
9		1345825	Strap	1	1
10		173247	Clamp	1	1
11		127045	Clamp	4	4
12		292682	Lockwasher	3	3
13		320159	Washer	3	3
14		136985	Capscrew	3	3
15		136692	Nut	3	3
16		239503	Nut	1	1
17		292681	Washer	1	1
18		320158	Washer	1	1
19		302235	Screw	2	2
20		1347076	Washer	2	2
21		292678	Lockwasher	2	2
22		1329271	Clip	2	2
23		1329272	Nut	2	2
24		1359580	Tube	1	1
25		1352140	Radiator Cap	1	1
26		1331152	Shim	AR	AR
27		1361586	Hose (Lower)	1	..
27		1361627	Hose (Lower)	..	1
28		1339655	Hose (Upper)	1	..
28		1343453	Hose (Upper)	..	1
29		1339657	Shroud	1	..
29		1339690	Shroud	..	1
30		3002338	Antifreeze (1 Gallon)	AR	AR

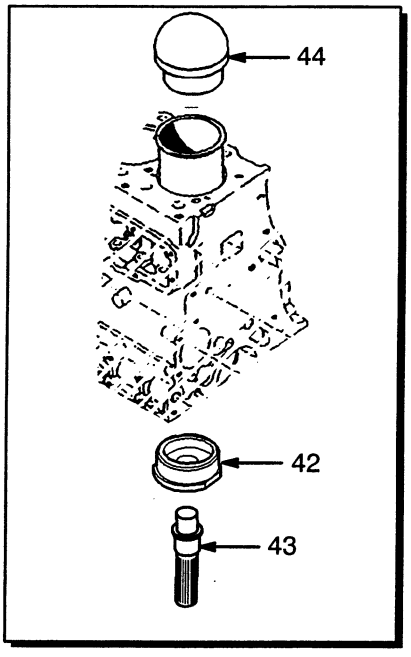
a Optional
b Last Used On S/N D177B-12749
c Used On S/N D177B-12750

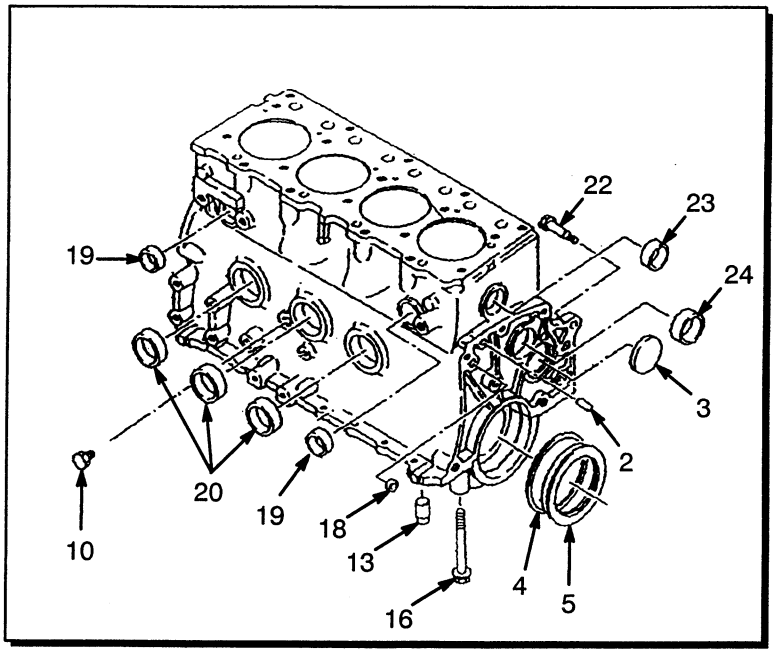
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CYLINDER BLOCK (Figure 37)

DIESEL 2.4L







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CYLINDER BLOCK

DIESEL 2.4L

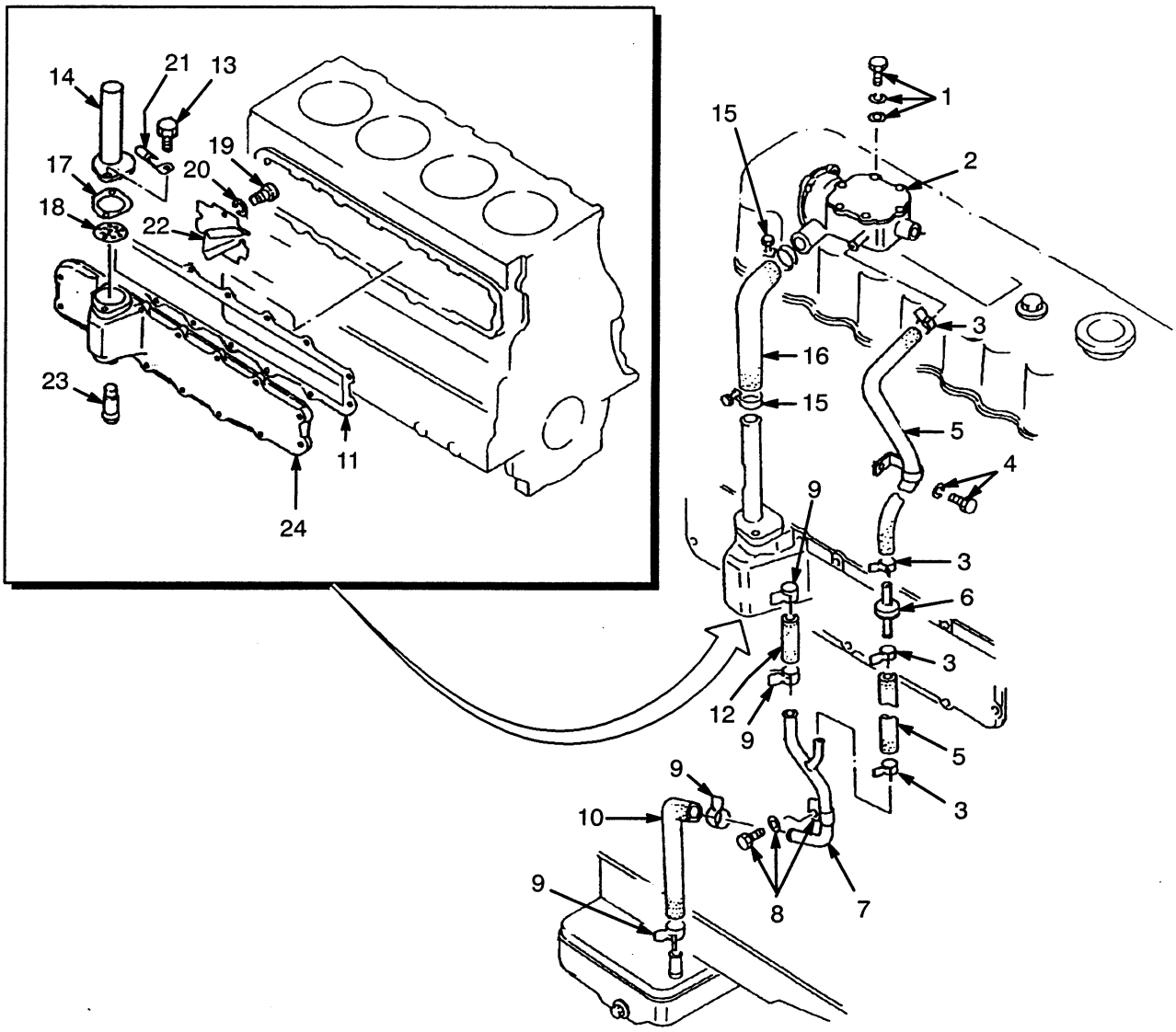
REF		PART NO.	NAME OF PART	QTY
		1335948	Engine	1
1	a	1360808	Short Block	1
2		324155	Pin	1
3		324144	Plug	1
4		324163	Spacer	1
5	bc	324164	Seal	1
6		324154	Fitting	1
7		323816	Cup	2
8		324278	Bearing	1
9		324153	Pin	2
10		14385	Fitting	1
11		1361520	Water Duct	1
12		1338456	Capscrew	5
13		324161	Pin	2
14		348427	Plug	1
15		1338780	Capscrew	16
16	a	324169	Capscrew	10
17		348428	Gasket	1
18	a	323818	Cup	1
19	a	324141	Cup	2
20	a	323815	Cup	3
21		324170	Capscrew	3
22		324173	Capscrew	1
23	a	.....	Cup	1
24	a	324140	Cup	1
25		324156	Cover	1
26	bc	324157	Packing Seal	1
27		324352	Bolt	1
28	bc	324353	Gasket	2
29		324351	Pipe	1
30		1329318	Dowel	2
31	a	1456588	Liner (1-AX)	4
31	a	1456589	Liner (1-CX)	4
31	a	1456590	Liner (2-AX)	4
31	a	1456591	Liner (2-CX)	4
31	a	1456592	Liner (3-AX)	4
31	a	1456593	Liner (3-CX)	4
31	a	1456594	Liner (4-AX)	4
31	a	1456595	Liner (4-CX)	4
32	bc	324165	Seal	2
33		324143	Cam Bearing Kit	1
34	bc	324152	Gasket	1
35		1361521	Plate	1
36	a	1361525	Pin	2
37		324146	Plug	2
38		1361538	Bolt	4
39		324138	Plug	2
39	a	323817	Plug	2
40	b	324412	Gasket	1
41		324385	Plug	1
42		320901	Remover (Liner)	1
43		320902	Grip (Liner)	1
44		320903	Tool (Liner)	1
45		1329367	Switch Assembly	1
45		340868	Oil Switch	1
45		1329369	Adapter	1
46		1361535	Pipe	1
47		1361536	Valve	1
48		1361537	Bolt	2

a ☞ Figure 41 & Figure 42 For Further Components For Short Block Assembly
b Included In Bottom Gasket Kit 346530
c Included In Seal Kit 1457015

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EMISSION CONTROL (Figure 38)

DIESEL



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EMISSION CONTROL

DIESEL

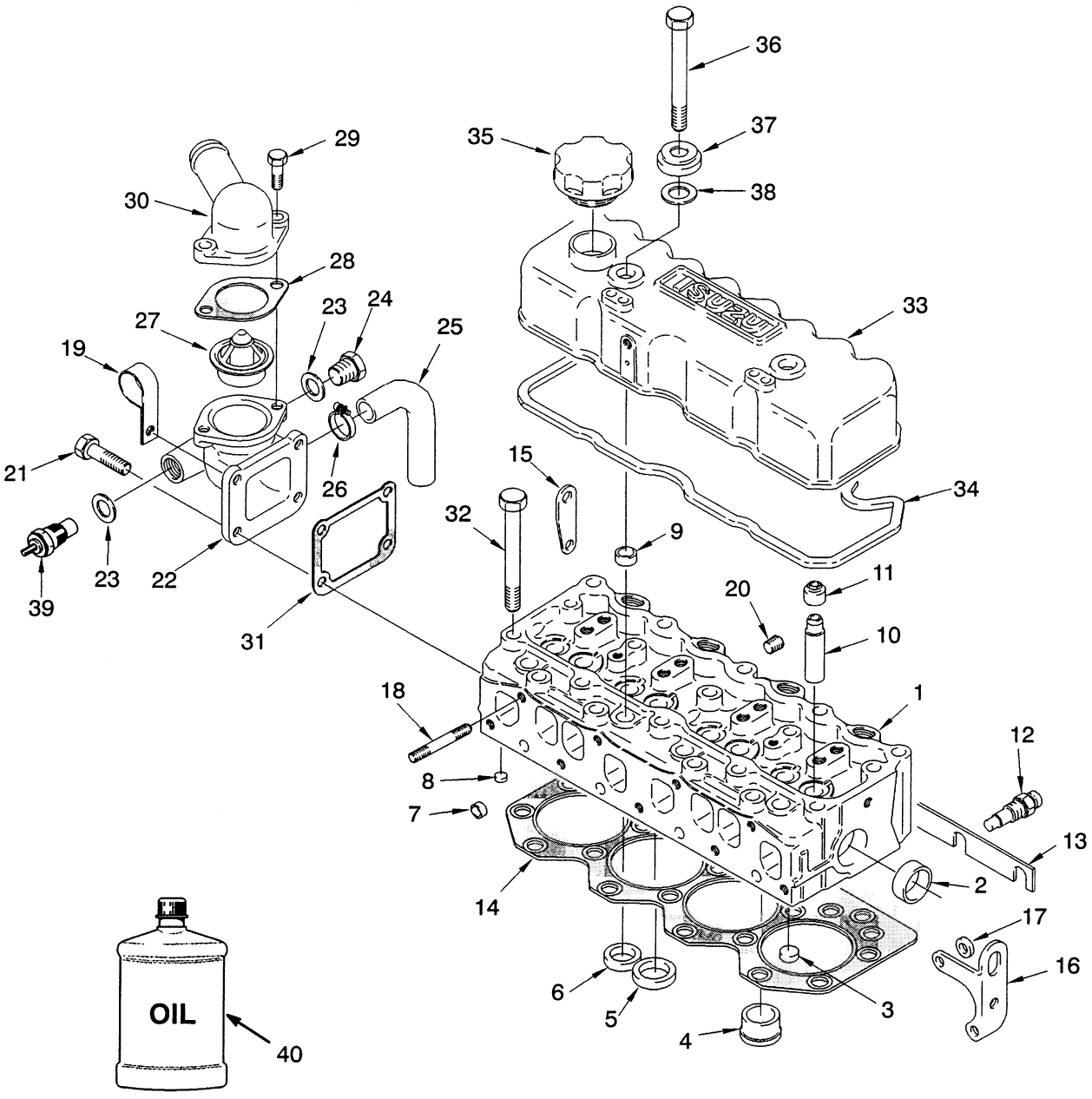
REF		PART NO.	NAME OF PART	QTY
1		382509	Bolt	2
1		292680	Washer	2
1		382511	Washer	2
2		382503	PVC Valve	1
3		382502	Clip	4
4		1361526	Bolt	1
4		292681	Washer	1
5		1305789	Hose	2
6		382499	Check Valve	1
7		382495	Connector	1
8		324262	Bolt	1
8		292682	Washer	1
8		382508	Clip	1
9		382498	Clip	4
10		382497	Hose	1
11	a	348442	Seal	1
12		382494	Hose	1
13		1361524	Bolt	2
14		382493	Breather Pipe	1
15		382505	Clip	2
16		382504	Hose	1
17		1361522	Gasket	1
18		382487	Baffle	1
19		1361523	Screw	2
20		292679	Washer	2
21		382488	Clip	1
22		382486	Baffle	1
23		382491	Nipple	1
24		388291	Cover	1

a Included In Seal Kit 1457015

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CYLINDER HEAD (Figure 39)

DIESEL 2.4L



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CYLINDER HEAD

DIESEL 2.4L

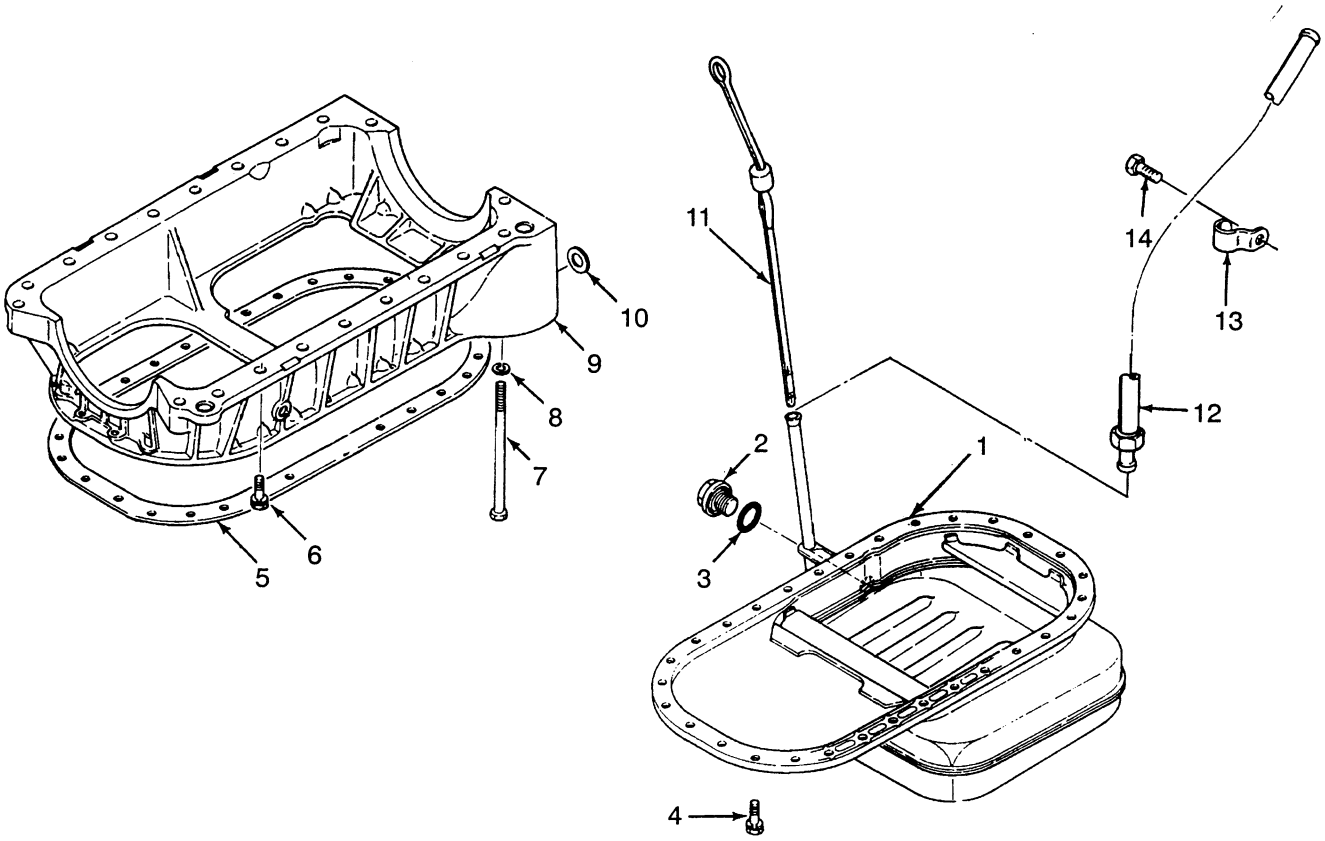
REF		PART NO.	NAME OF PART	QTY
1		323814	Cylinder Head	1
2		323815	Cup	1
3		323816	Cup	4
4		323824	Plug	4
5		323820	Inlet valve Insert	4
6		323821	Exhaust valve Insert	4
7		323818	Cup	4
8		323819	Plug	4
9		323817	Plug	5
10		323822	Valve Guide	8
11	a	323823	Seal-Valve Stem Oil	8
12		1360812	Glow Plug	4
13		324603	Connector	1
14		1361508	Gasket	1
15		324435	Hanger (Front)	1
16		324436	Hanger (Rear)	1
17		324437	Spacer	2
18		324125	Stud (35 mm)	3
18		324126	Stud (40 mm)	3
18		324127	Stud (45 mm)	1
19		324382	Clamp	1
20		324167	Plug	1
21		324378	Bolt	4
22		342741	Housing	1
23		324375	Gasket	2
24		324374	Plug	1
25		373660	Hose	1
26		130845	Clamp	2
27		324370	Thermostat (170° F)	1
28		1334272	Gasket	1
29		324373	Bolt	2
30		324369	Outlet	1
31	a	1391232	Gasket	1
32		1334663	Bolt	19
33		1361509	Cover	1
34	a	324133	Gasket	1
35		354789	Cap	1
36		324166	Capscrew	2
37		324135	Washer	2
38	a	324134	Gasket	2
39		1369439	Temperature Switch	1
40		3021238	Engine Oil (Bulk)	AR
40		3021239	Engine Oil (55 Gallon)	AR
40		3021240	Engine Oil (12 Quart Case)	AR

a Included In Seal Kit 1457015

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CRANKCASE AND OIL PAN (Figure 40)

DIESEL 2.4L



REF		PART NO.	NAME OF PART	QTY
1		1361529	Oil Pan	1
2		324228	Plug	1
3	a	1329327	O-Ring	1
4		324246	Bolt	30
4		1329328	Bolt	2
5	ab	324245	Gasket	1
6		1369443	Bolt	2
6		1338456	Bolt	14
6		1334675	Bolt	2
7		324248	Bolt	2
8		292681	Lockwasher	2
9		324230	Crankcase	1
10		324233	Shim (0.30 mm)	AR
10		324234	Shim (0.35 mm)	AR
10		324235	Shim (0.40 mm)	AR
10		324236	Shim (0.45 mm)	AR
10		324237	Shim (0.50 mm)	AR
10		324238	Shim (0.55 mm)	AR
10		324239	Shim (0.60 mm)	AR
10		324240	Shim (0.65 mm)	AR
10		324241	Shim (0.70 mm)	AR
10		324242	Shim (0.75 mm)	AR
10		324243	Shim (0.80 mm)	AR
10		324244	Shim (0.90 mm)	AR
10		348436	Shim (0.85 mm)	AR
11		348450	Dipstick	1
12		348451	Tube	1
13		348452	Clip	1
14		348453	Bolt	1

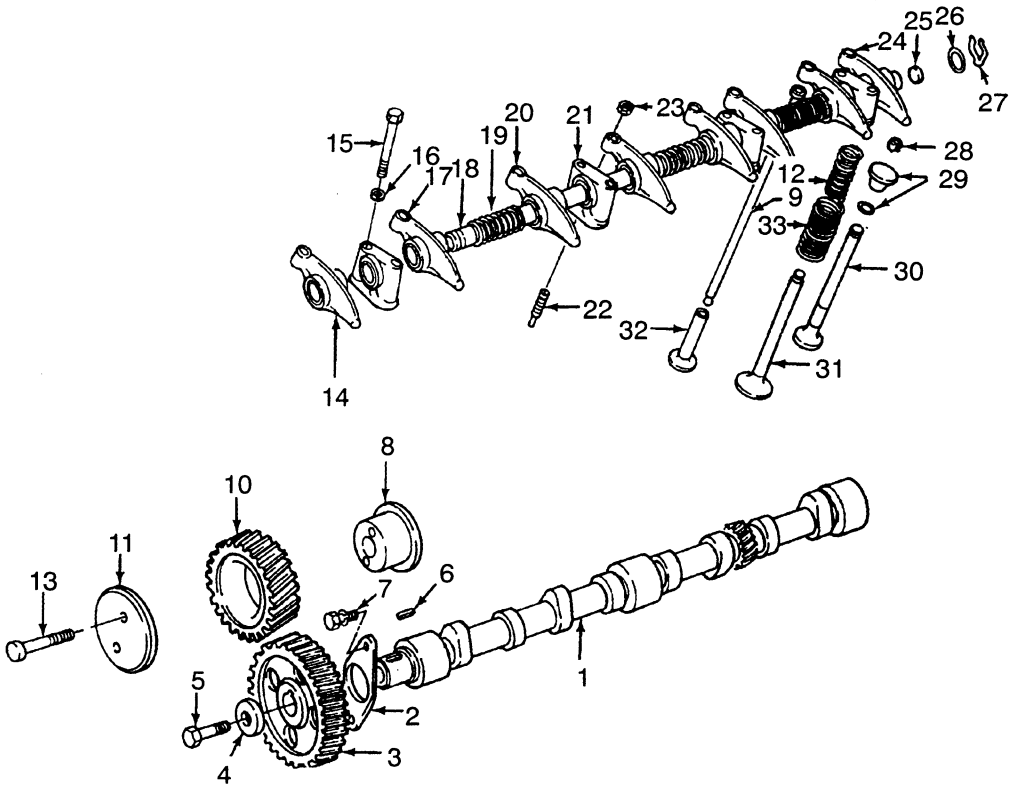
a Included In Bottom Gasket Kit 346530
b Included In Seal Kit 1457015

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CAMSHAFT AND VALVES (Figure 41)

DIESEL 2.4L



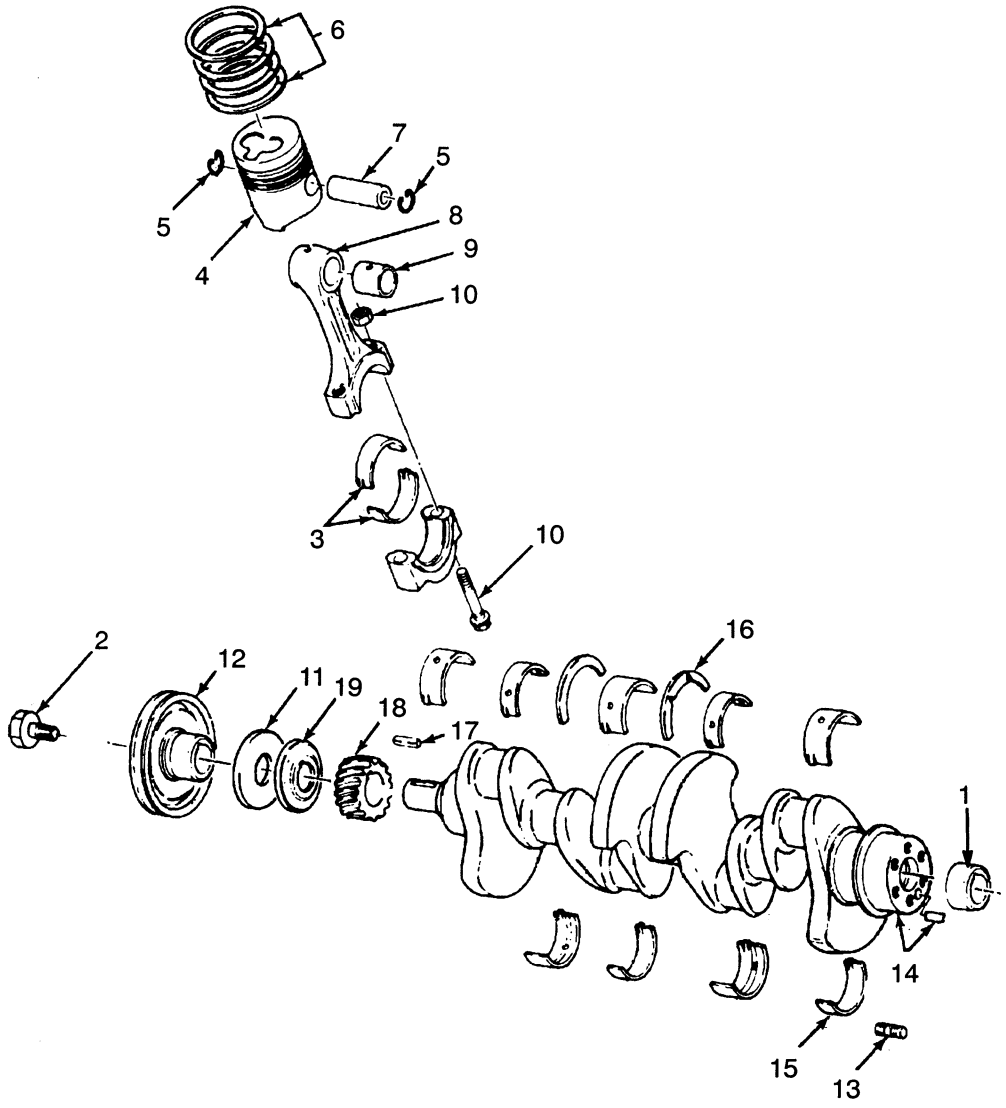
REF	PART NO.	NAME OF PART	QTY
1	1352015	Camshaft	1
2	1352016	Thrust Plate	1
3	324291	Gear	1
4	324294	Washer	1
5	324293	Bolt	1
6	324292	Key	1
7	324296	Bolt	2
8	324297	Shaft	1
9	324308	Push Rod	8
10	1361534	Gear (With Bushing)	1
11	324299	Plate	1
12	324304	Spring (Inner)	8
13	373663	Capscrew	2
14	324309	Rocker Arm	1
15	292509	Capscrew	8
16	324259	Washer	8
17	324312	Rocker Arm	3
18	348462	Rocker Shaft	1
19	324318	Spring	3
20	324311	Rocker Arm	3
21	324317	Bracket	4
22	388280	Screw	8
23	324314	Nut	8
24	324310	Rocker Arm	1
25	324316	Plug	2
26	324321	Washer	2
27	324319	Snap Ring	2
28	324306	Keeper Valve	16
29 [a]	1369039	Seat	8
29	324305	Seal Ring	1
30	324302	Exhaust Valve	4
31	324301	Inlet Valve	4
32	324307	Tappet	8
33	324303	Spring (Outer)	8

[a] Included In Seal Kit 1457015

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CRANKSHAFT AND PISTON (Figure 42)

DIESEL 2.4L



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CRANKSHAFT AND PISTON

DIESEL 2.4L

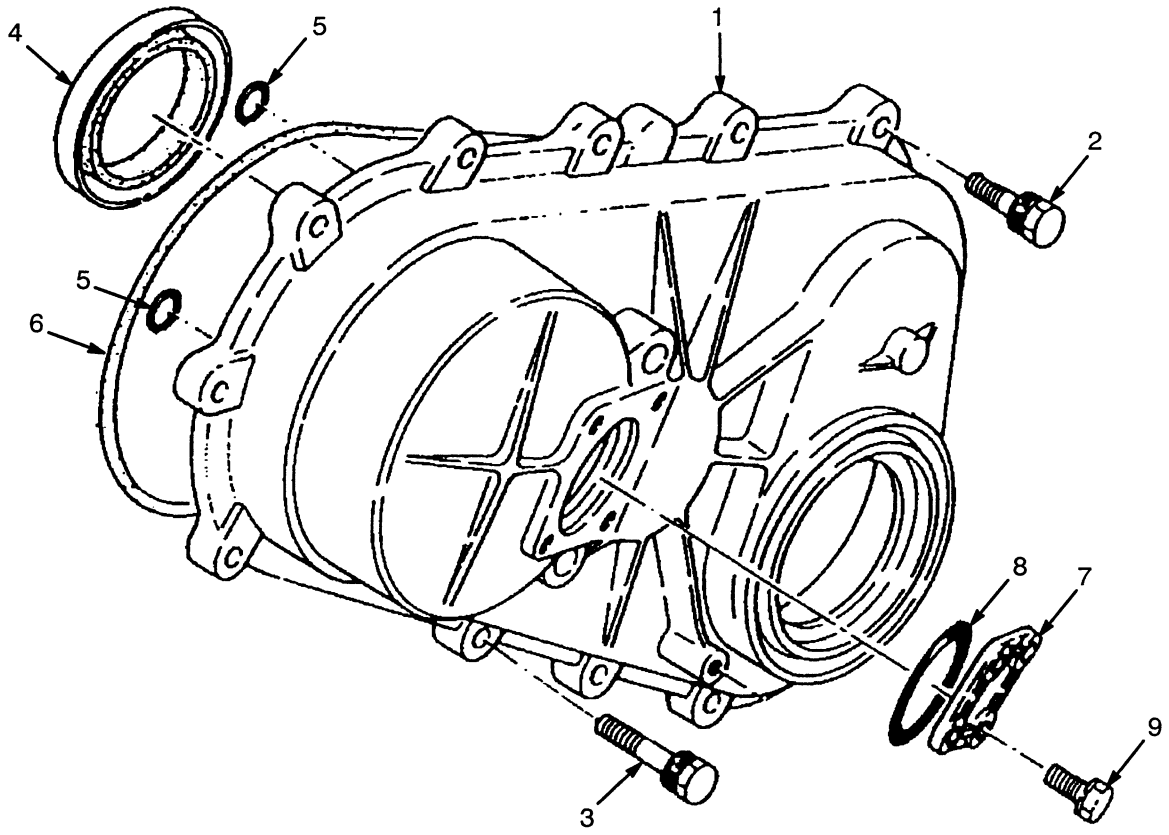
REF		PART NO.	NAME OF PART	QTY
1		324278	Bearing	1
2		1361533	Bolt	1
3	a	362120	Rod Bearing (Standard)	4
3		362121	Rod Bearing (0.25 mm)	4
3		362122	Rod Bearing (0.50 mm)	4
4	b	1456565	Piston (Standard)	4
4	c	1456566	Piston (Standard)	4
5	a	324271	Snap Ring	8
6	a	1360802	Ring Set (Standard)	4
7	a	1361531	Pin	4
8	a	348454	Connector Rod	4
9	a	1360804	Bushing	1
10	a	1360805	Bolt	2
10	a	1360806	Nut	2
11		324288	Dust Slinger	1
12		1361532	Pulley	1
13		324222	Stud	2
14	a	362450	Crankshaft	1
14	a	324277	Pin	1
15	a	324264	Main Bearing (Standard)	1
15		324265	Main Bearing (0.25 mm)	1
15		324266	Main Bearing (0.50 mm)	1
16	a	1330003	Bearing	2
17	a	348437	Tapered Key	1
18		324284	Gear	1
19		324285	Oil Slinger	1

a Included In Short Block 1360808
b With 'A' Or 'B' Stamp
c With 'C' Or 'D' Stamp

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TIMING GEAR (Figure 43)

DIESEL 2.4L



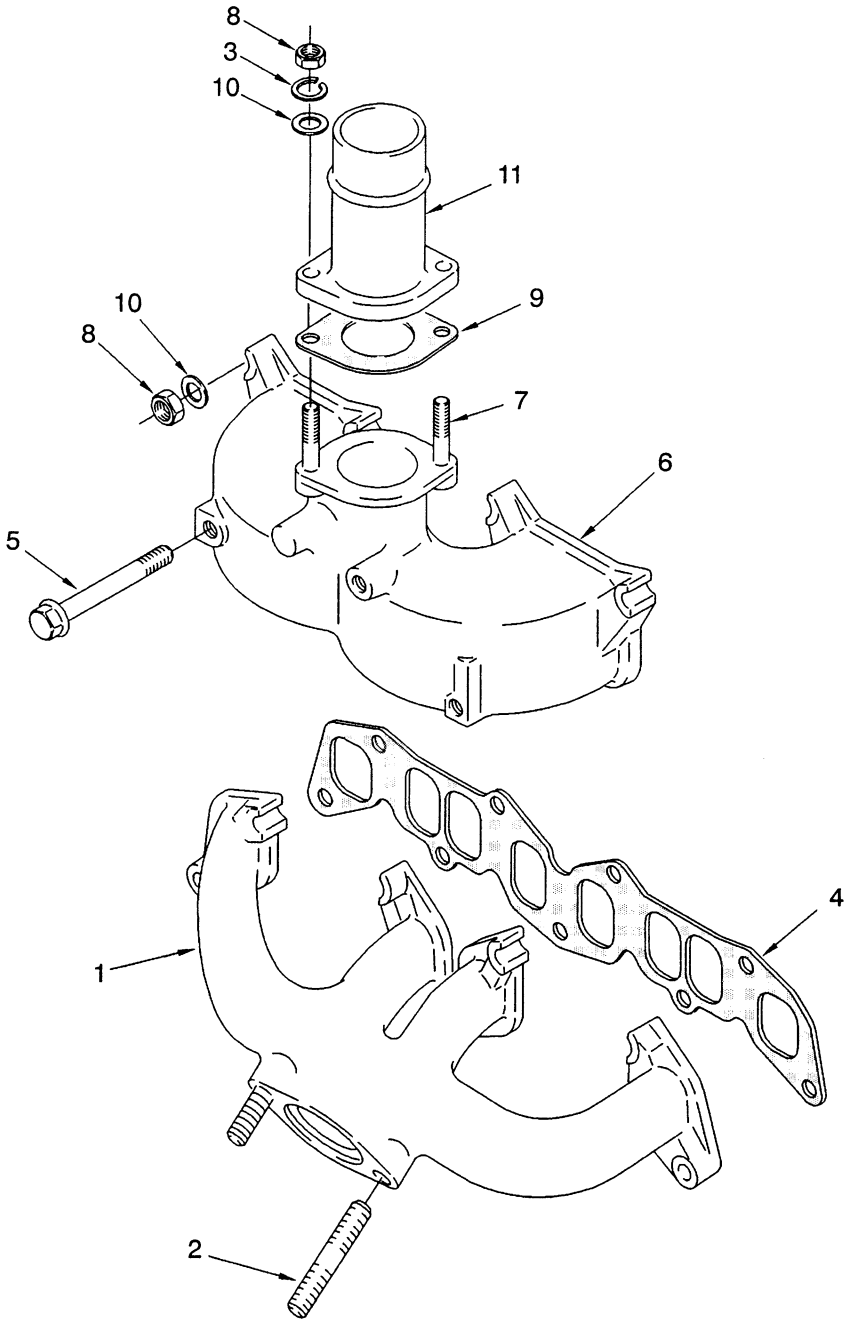
REF		PART NO.	NAME OF PART	QTY
1		1361527	Case	1
2		1337694	Bolt (45 mm)	7
3		1337696	Bolt (30 mm)	2
4	ab	1374645	Oil Seal	1
5	b	1363006	Gasket	2
6	b	1361528	Gasket	1
7		1363003	Cover	1
8	b	1363004	Gasket	1
9		1361524	Bolt	4

a Included In Bottom Gasket Kit 346530
b Included In Seal Kit 1457015

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MANIFOLD (Figure 44)

DIESEL 2.4L



REF	PART NO.	NAME OF PART	QTY
1	324387	Exhaust Manifold	1
2	324388	Stud	2
3	292681	Lockwasher	2
4	1361541	Gasket	1
5	1369443	Bolt (100 mm)	2
6	373661	Inlet Manifold	1
7	1329344	Stud	2

REF	PART NO.	NAME OF PART	QTY
8	239503	Nut	6
9 a	324397	Gasket	2
10	388293	Washer	6
11	1361542	Pipe	1

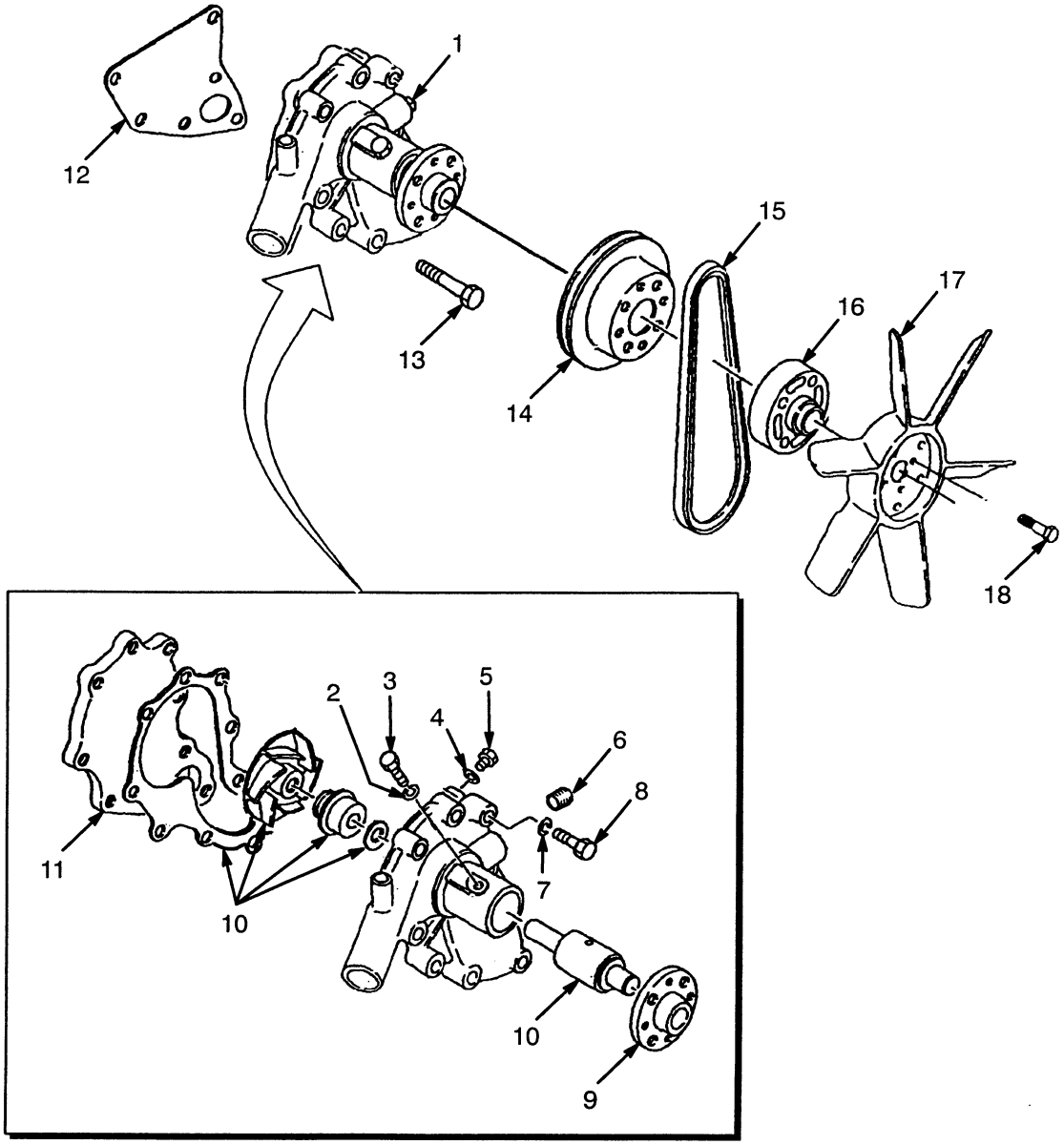
a Included In Seal Kit 1457015

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WATER PUMP (Figure 45)

DIESEL 2.4L



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WATER PUMP

DIESEL 2.4L

KEY:
A: Water Pump 1375989 (Optional)
B: Water Pump 1309829

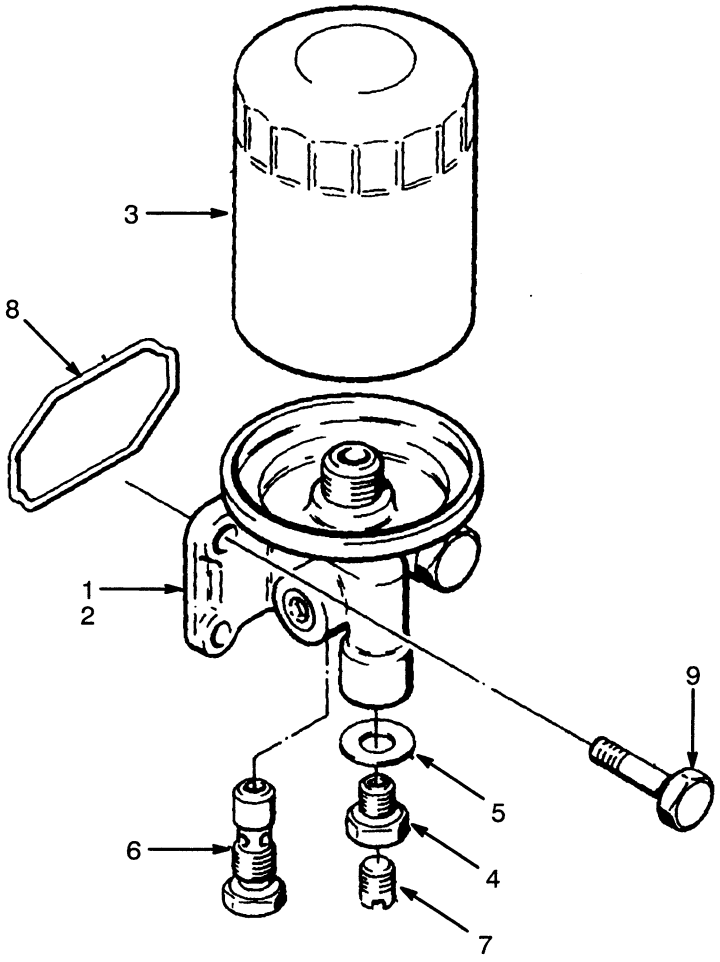
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1375989	Water Pump	1	..
1	a	1309829	Water Pump (Optional)	..	1
2		292681	Lockwasher	..	1
3		324642	Setscrew	..	1
4		324648	Gasket	..	1
5		324647	Bolt	..	1
6		324167	Plug	..	1
7		292681	Lockwasher	..	3
8		324646	Bolt	..	3
9		324644	Mount	..	1
10	b	.....	Bearing Unit	..	1
10	b	.....	Impeller	..	1
10	b	.....	Packing Seal	..	1
10	b	.....	Seal Unit	..	1
10	b	.....	Bearing Thrower	..	1
11		1330979	Cover	..	1
12	bc	324361	Gasket	1	1
13		324362	Capscrew (60 mm)	1	1
13		367339	Capscrew (65 mm)	1	1
14		1367649	Pulley	1	1
15		1361139	Belt	1	1
16		324366	Spacer	1	1
17		1338472	Fan	1	1
18		1338456	Bolt	4	4

a Remanufactured Water Pump 3002534 R
b Included In Repair Kit 1329336
c Included In Seal Kit 1457015

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OIL FILTER (Figure 46)

DIESEL 2.4L



REF	PART NO.	NAME OF PART	QTY
1	374895	Filter	1
2	374896	Body	1
3	360974	Element	1
4	324340	Adapter	1
5	374899	Packing	1
6	324345	Valve	1

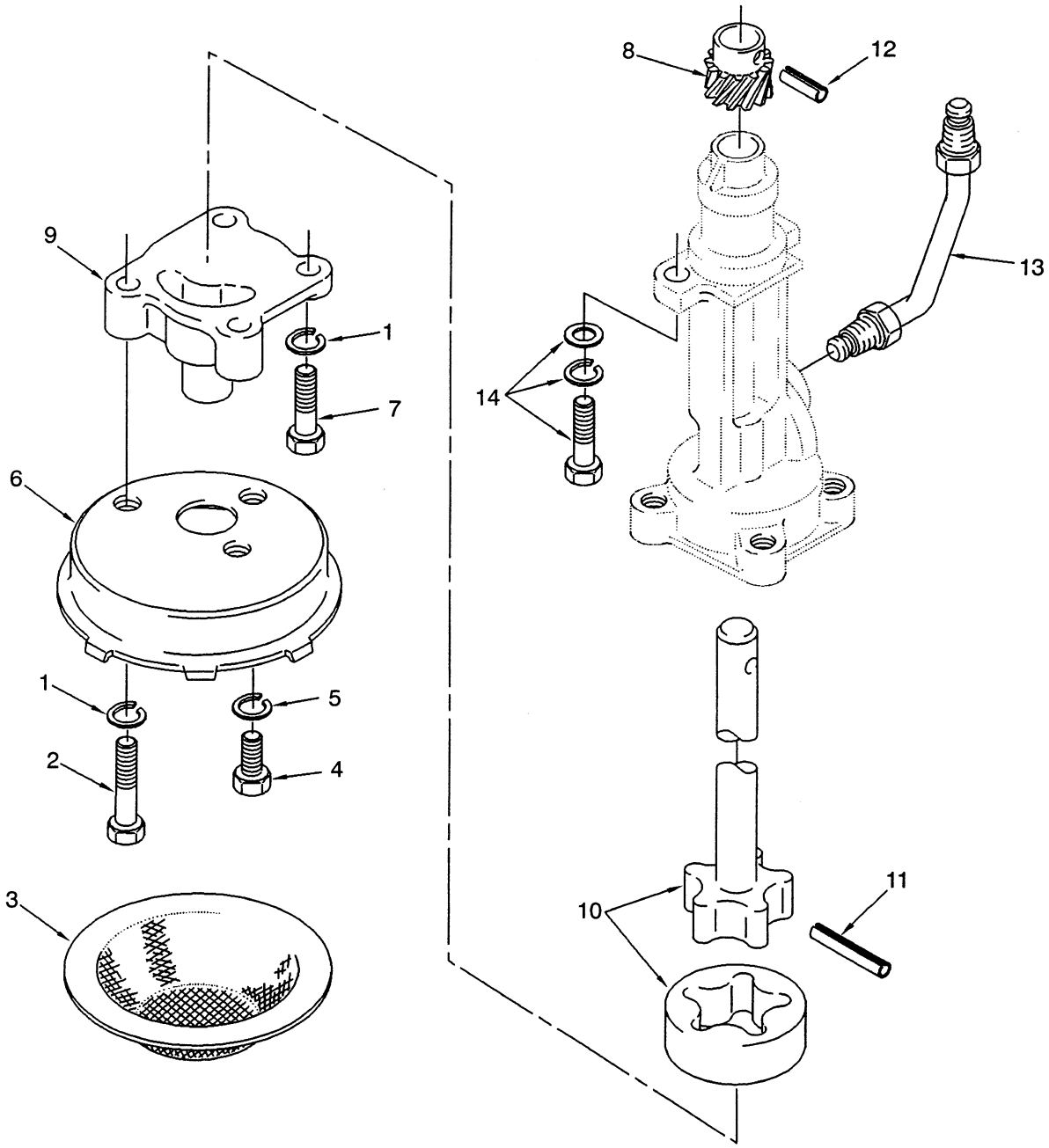
REF	PART NO.	NAME OF PART	QTY
7	324342	Plug	1
8 a	1374932	Packing	1
9	388294	Bolt	4

a Included In Seal Kit 1457015

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OIL PUMP (Figure 47)

DIESEL 2.4L



REF	PART NO.	NAME OF PART	QTY
	1329314	Oil Pump	1
1	292681	Lockwasher	4
2	388278	Bolt	2
3	324260	Screen	1
4	324262	Bolt	1
5	292681	Lockwasher	1
6	324261	Case	1
7	287805	Capscrew	2
8	324256	Drive Pinion	1

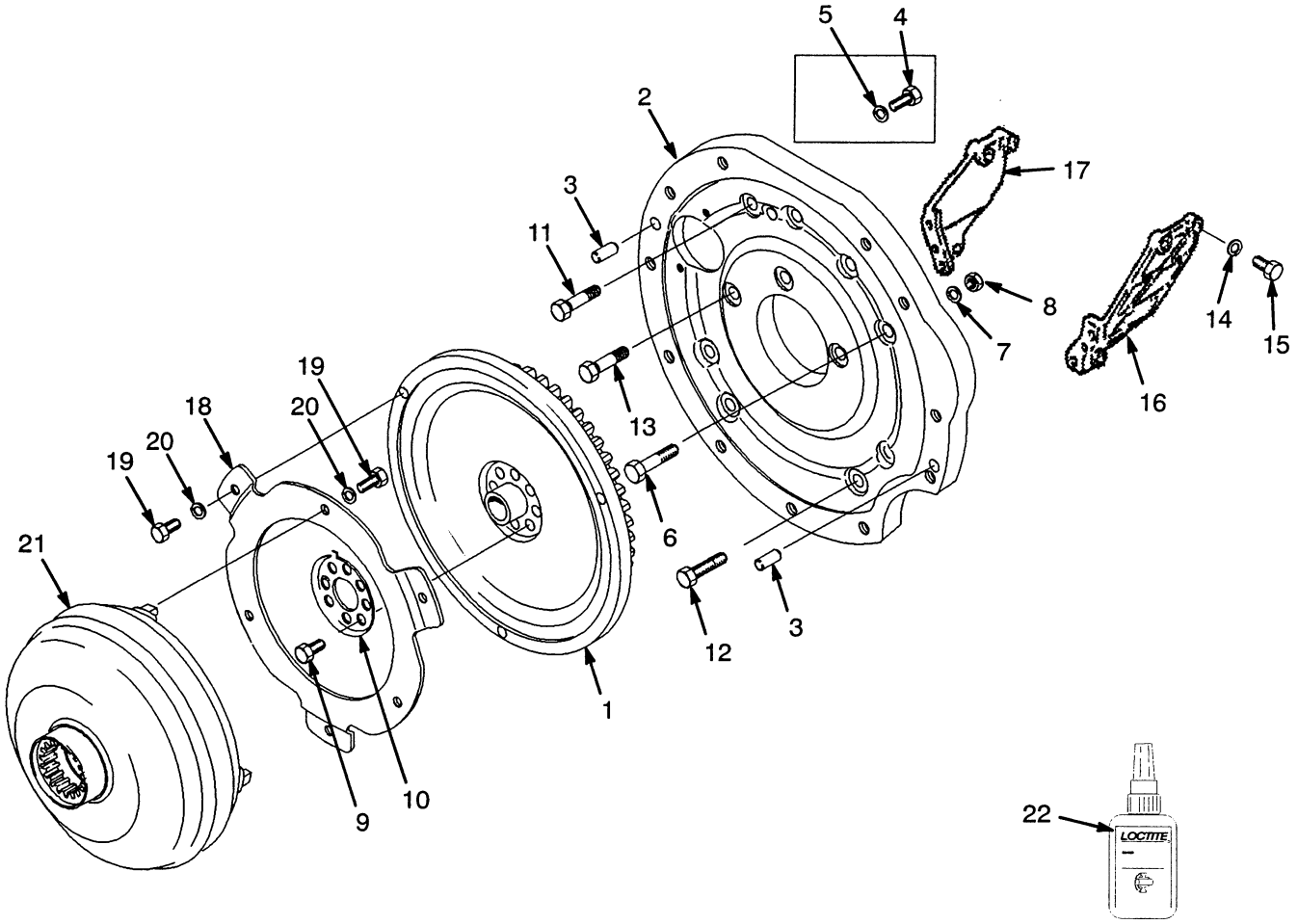
REF	PART NO.	NAME OF PART	QTY
9	324257	Cover	1
10	388277	Rotor Assembly	1
11	324255	Pin	1
12	324254	Pin	1
13	324350	Pipe	1
14	324263	Bolt	2
14	324259	Washer	2
14	292681	Lockwasher	2

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FLYWHEEL (Figure 48)

DIESEL 2.4L, 2.8L, AND 3.1L



KEY:
A: 2.4L
B: 2.8L & 3.1L

REF	PART NO.	NAME OF PART	QTY A	QTY B
1	1386791	Flywheel	1	..
1	1361111	Flywheel	..	1
1	1361112	Ring Gear	1	1
2	1337138	Housing	1	1
3	302385	Pin	2	2
4	292528	Capscrew	2	2
5	320161	Washer	2	2
6	324173	Reamer Bolt	1	1
7	292682	Washer	2	2
8	303109	Nut	1	1
9	1339639	Bolt	6	8
10	324282	Washer	1	..
10	1329234	Washer	..	1

REF	PART NO.	NAME OF PART	QTY A	QTY B
11	1338779	Bolt	3	3
12	324225	Bolt	2	4
13	324213	Bolt	3	3
14	296420	Washer	..	4
15	1329258	Capscrew	..	4
16	1332637	Stiffener (RH)	..	1
17	1332638	Stiffener (LH)	..	1
18	1337000	Flexplate	1	1
19	15942	Bolt	6	6
20	261379	Washer	6	6
21	1386795	Torque Converter	1	..
21	1343585	Torque Converter (3.58)	..	1
22	360387	Adhesive	ARAR	

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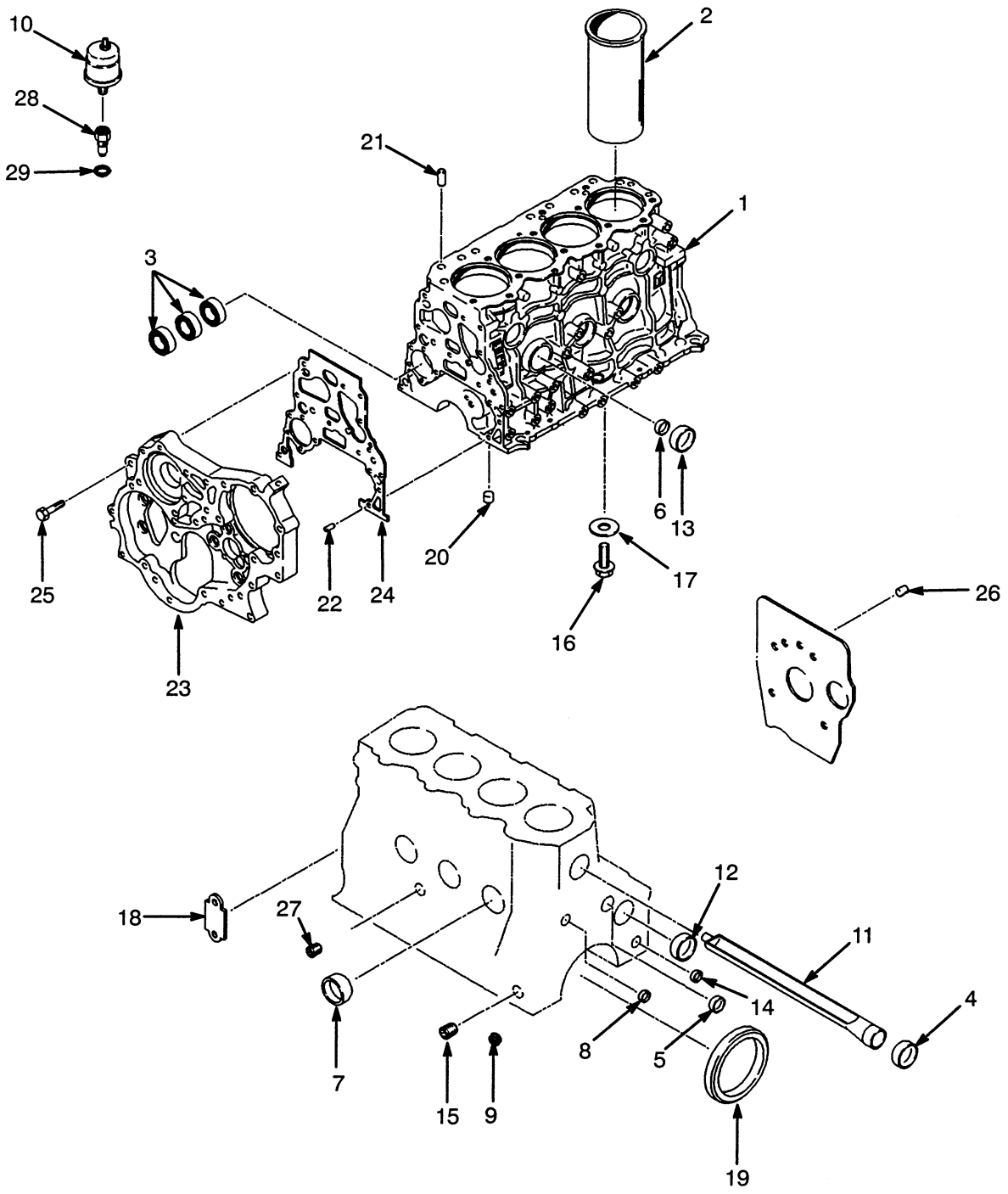
NOTES

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CYLINDER BLOCK (Figure 49)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



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CYLINDER BLOCK

DIESEL 2.8L

LAST USED ON S/N D177B-8291

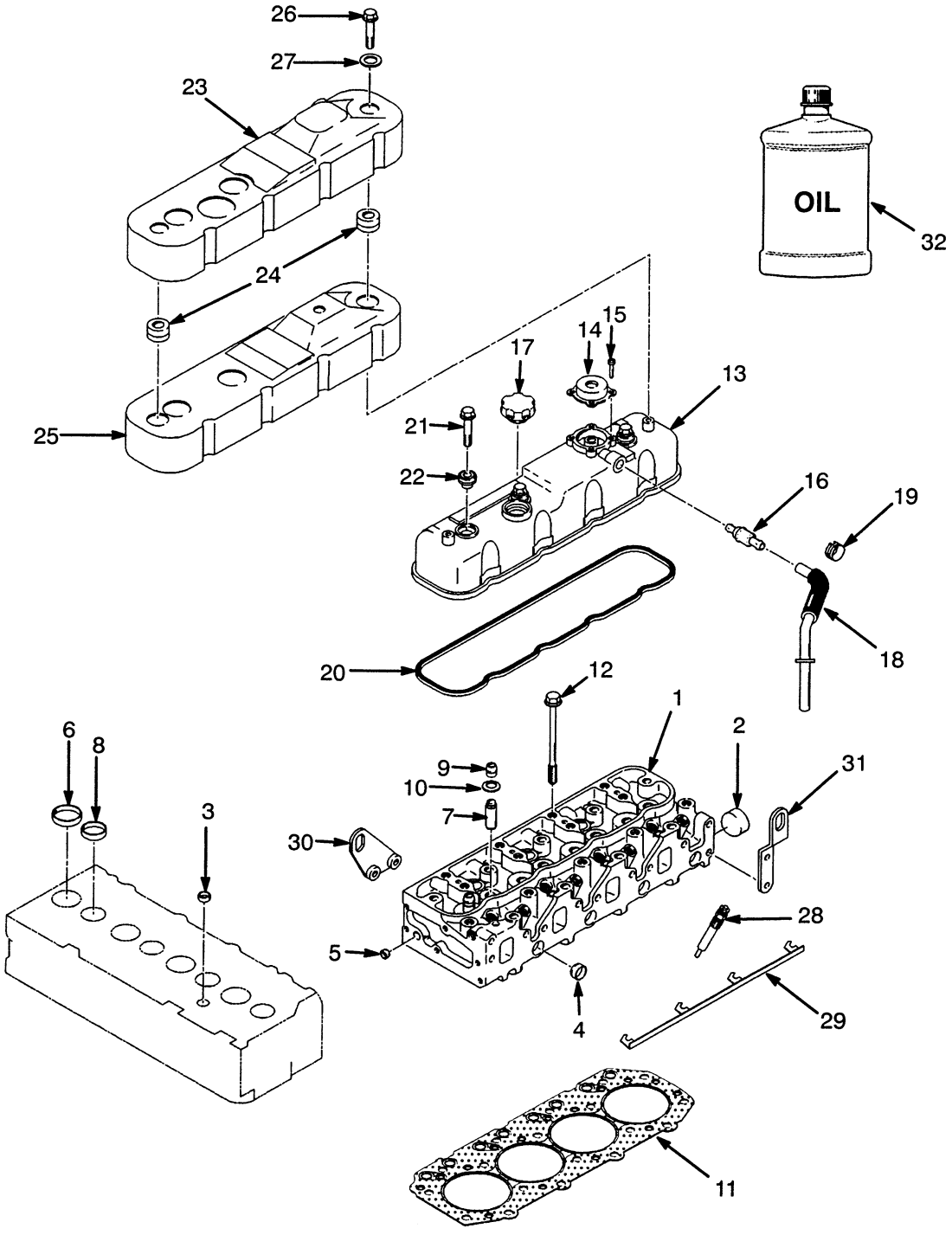
REF	PART NO.	NAME OF PART	QTY
	1332575	Engine	1
1	1360811	Block	1
2	1456569	Cylinder liner (1-AX)	4
2	1456570	Cylinder liner (1-CX)	4
2	1456571	Cylinder liner (2-AX)	4
2	1456572	Cylinder liner (2-CX)	4
2	1456573	Cylinder liner (3-AX)	4
2	1456574	Cylinder liner (3-CX)	4
2	1456575	Cylinder liner (4-AX)	4
2	1456576	Cylinder liner (4-CX)	4
3	1337678	Bearing	1
4	324139	Cup	1
5	324140	Cup	1
6	323817	Plug	3
7	323815	Cup	3
8	323818	Cup	1
9	324141	Cup	2
10	340868	Oil Pressure Switch	1
11	1361545	Water Duct	1
12	324144	Cup	1
13	324139	Cup	3
14	323816	Cup	2
15	324146	Plug	3
16	324374	Screw	1
17	348428	Gasket	1
18	1337680	Seal	1
19	1337681	Oil Seal	1
20	324161	Pin	2
21	1329318	Dowel	2
22	1337693	Pin	2
23	1374643	Plate (Front)	1
24	1337684	Gasket	1
25	1337685	Bolt	7
26	324155	Pin	1
27	14385	Water Drain Plug	1
28	1338788	Adaptor	1
29	1338790	O-Ring	1

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CYLINDER HEAD (Figure 50)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



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CYLINDER HEAD

DIESEL 2.8L

LAST USED ON S/N D177B-8291

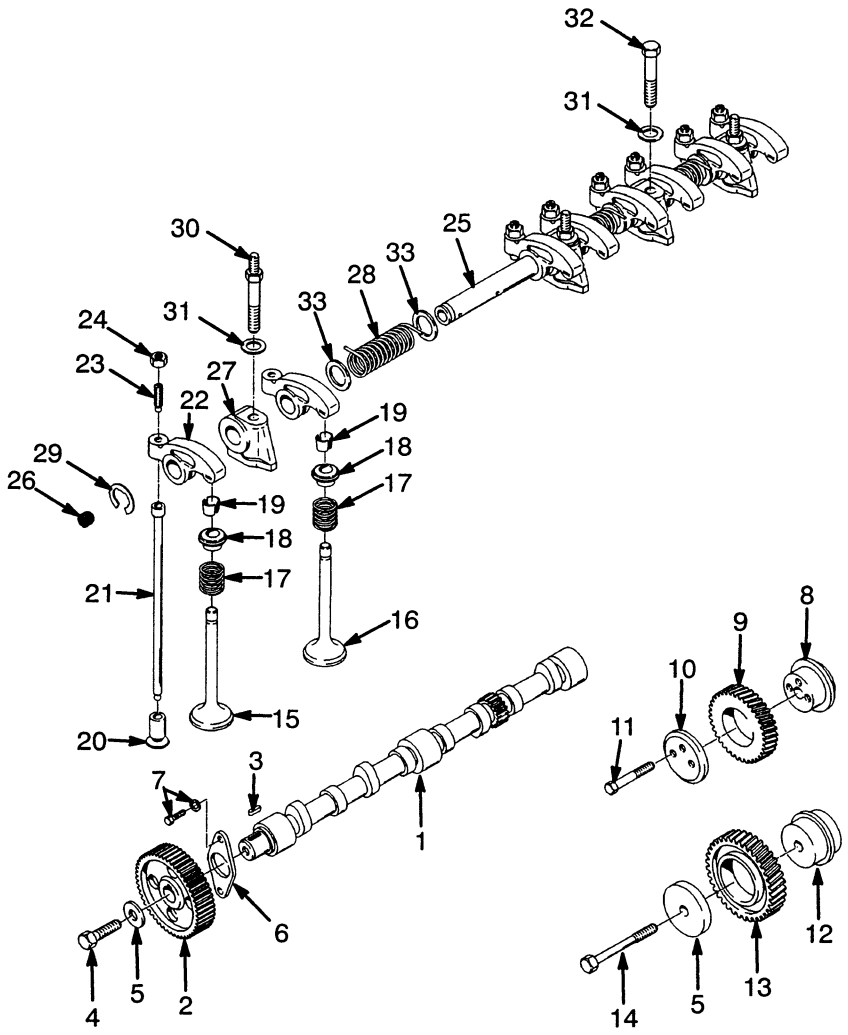
REF	PART NO.	NAME OF PART	QTY
1	1334670	Cylinder Head	1
2	323815	Cup	1
3	323816	Cup	3
4	1334651	Cup	7
5	323818	Cup	5
6	1334655	Inlet Insert	4
7	323822	Guide	8
8	1334656	Exhaust Insert	4
9	323823	Seal	8
10	1334653	Seat	8
11	1334668	Gasket	1
12	1334663	Bolt	18
13	1360823	Cover	1
14	1334665	Ventillator valve	1
15	1334672	Screw	4
16	1334666	Breather Pipe	1
17	1334657	Oil Filler Cap	1
18	1334669	Hose	1
19	1334654	Clamp	2
20	1334664	Gasket	1
21	1360824	Nut	3
22	1334661	Packing	3
23	1334658	Cover	1
24	1334667	Grommet	2
25	1334660	Spacer	1
26	1334650	Bolt	2
27	1334673	Washer	2
28	1360816	Glow Plug	4
29	1338787	Connector	1
30	1338776	Hanger (Front)	1
31	1338777	Hanger (Rear)	1
32	3021238	Engine Oil (Bulk)	AR
32	3021239	Engine Oil (55 Gallon)	AR
32	3021240	Engine Oil (12 Quart Case)	AR

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CAMSHAFT AND VALVES (Figure 51)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



REF	PART NO.	NAME OF PART	QTY
1	1338406	Camshaft	1
2	1338407	Gear	1
3	324292	Key	1
4	1338408	Bolt	1
5	324294	Washer	2
6	1338409	Thrust Plate	1
7	1338410	Bolt	2
8	1338411	Shaft	1
9	1338412	Gear	1
10	1338413	Collar	1
11	373663	Bolt	2
12	1338415	Shaft	1
13	1338416	Gear	1
14	1338417	Bolt	1
15	1338418	Inlet Valve	4
16	1338419	Exhaust Valve	4
17	1338420	Spring (Outer)	8
18	1374926	Seat	8
19	324306	Collar	16
20	1338422	Tappet	8
21	1374927	Push Rod	8
22	1338424	Rocker Arm	8
23	388280	Adjusting Screw	8
24	324314	Nut	8
25	1338427	Rocker Shaft	1
26	324316	End Plug	2
27	1338428	Bracket	4
28	1338429	Spring	3
29	324319	Snap Ring	2
30	1338430	Bolt	3
31	1338431	Washer	4
32	1338432	Bolt	1
33	1338433	Washer	6

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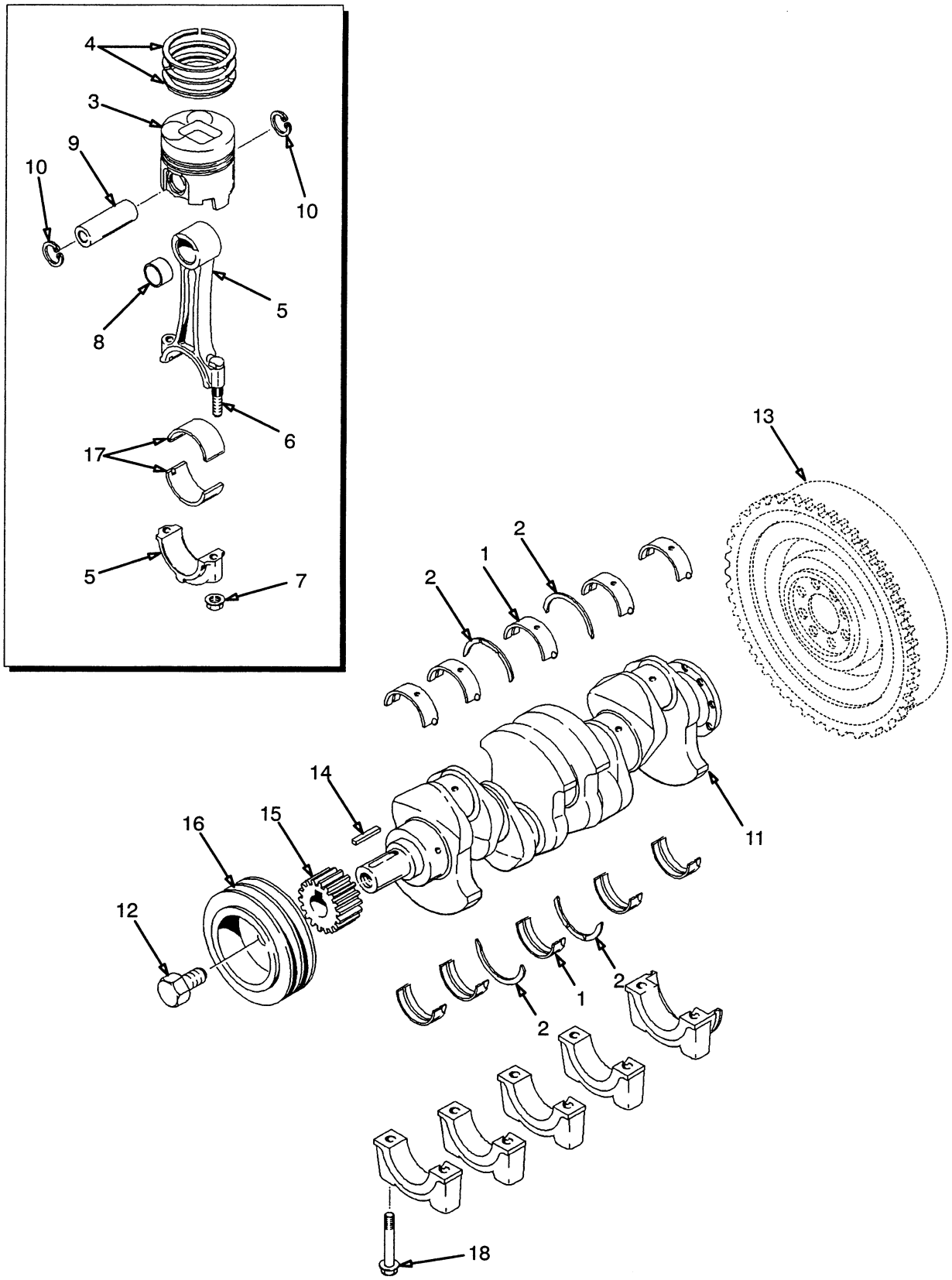
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CRANKSHAFT AND PISTON (Figure 52)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



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CRANKSHAFT AND PISTON

DIESEL 2.8L

LAST USED ON S/N D177B-8291

REF		PART NO.	NAME OF PART	QTY
1		1334691	Bearing (Crankhaft)	1
2		1334692	Thrust Bearing	1
3	a	1456567	Piston	4
3	b	1456568	Piston	4
4		1334694	Piston Ring Set	4
5		1334695	Connecting Rod	4
6		1334696	Bolt	2
7		348457	Nut	2
8		1369286	Bushing	1
9		1334698	Piston Pin	4
10		1334699	Snap Ring	8
11		1338400	Crankshaft	1
12		1338405	Bolt	1
13		.....	Flywheel ☞ Figure 48	1
14		348437	Key	1
15		1338403	Gear	1
16		1338404	Pulley	1
17		1334697	Bearing (Connecting Rod)	4
18		1337677	Bolt	10

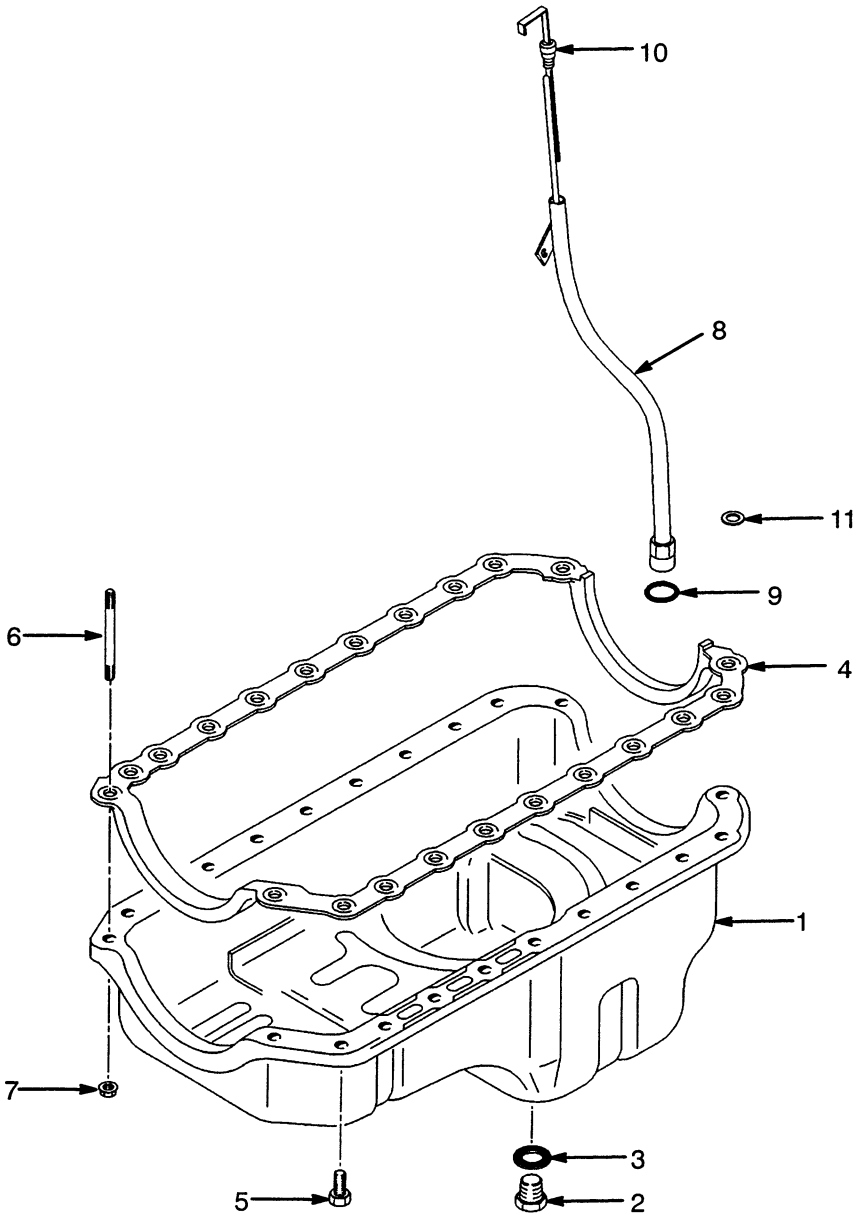
a With 'A' Or 'B' Stamp
b With 'C' Or 'D' Stamp

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CRANKCASE AND OIL PAN (Figure 53)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



REF	PART NO.	NAME OF PART	QTY
1	1334676	Oil Pan	1
2	1334679	Drain Plug	1
3	1334678	O-Ring	1
4	1374652	Gasket	1
5	1334680	Bolt	12
6	1334681	Stud	10
7	1334682	Nut	10
8	1374653	Oil Level Tube	1
9	1338449	O-Ring	1
10	1334685	Oil Level Guage	1
11	324434	Flatwasher	1

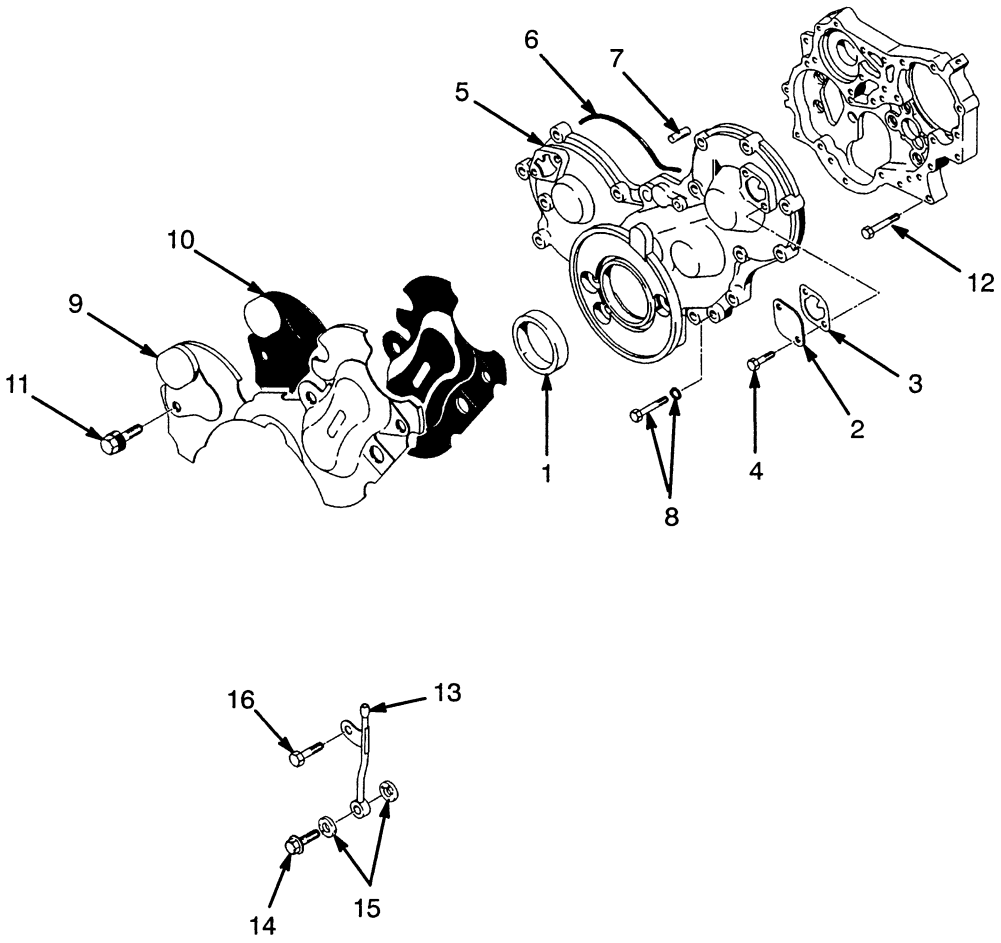
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TIMING GEAR (Figure 54)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



REF	PART NO.	NAME OF PART	QTY
1	1374645	Oil Seal	1
2	324200	Cover	2
3	1337690	Gasket	2
4	324504	Bolt	4
5	1337691	Cover	1
6	1337692	O-Ring	1
7	1337693	Pin	2
8	1337694	Bolt	8
9	1337697	Cover	1
10	1337698	Spacer	1
11	1337699	Bolt	4
12	1334675	Bolt	3
13	1338453	Pipe	1
14	1338454	Bolt	1
15	324412	Seal	1
16	1338456	Bolt	1

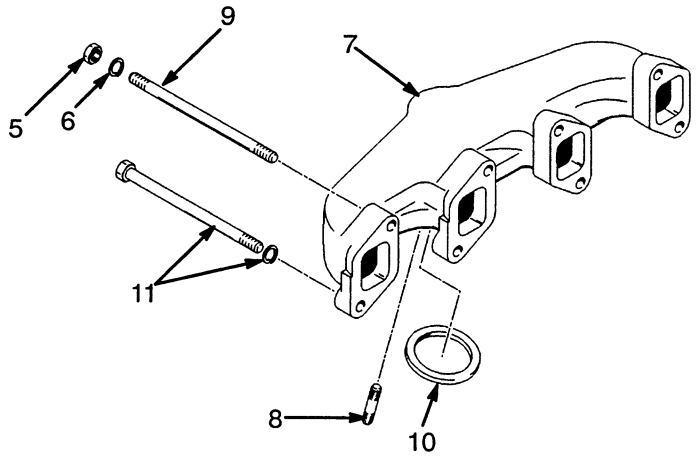
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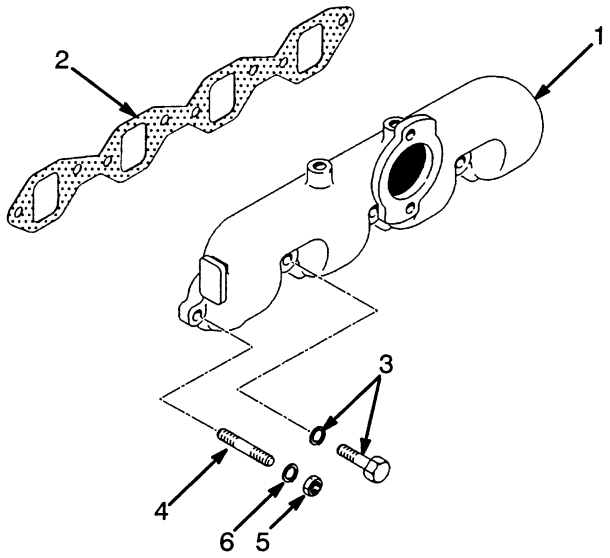
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MANIFOLD (Figure 55)

DIESEL 2.8L

LAST USED ON S/N D177B-8291





REF	PART NO.	NAME OF PART	QTY
1	1338752	Inlet Manifold	1
2	1361546	Gasket	1
3	1338754	Bolt and Washer	6
4	1329344	Stud	2
5	239503	Nut	4
6	292681	Spring Washer	4

REF	PART NO.	NAME OF PART	QTY
7	1374951	Exhaust Manifold	1
8	1361547	Stud	4
9	324125	Stud	2
10	1335954	Gasket	1
11	1338468	Bolt and Washer	6

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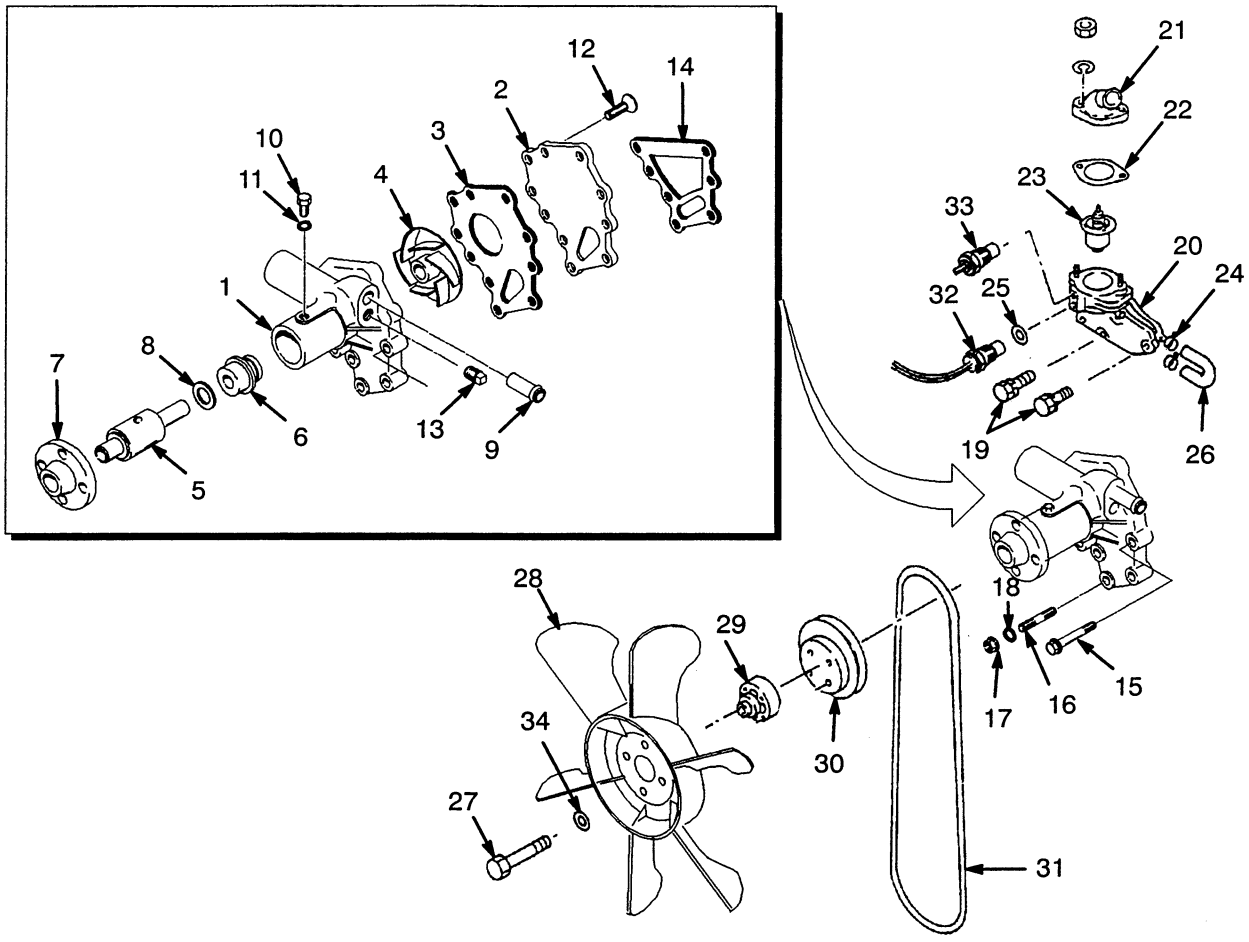
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WATER PUMP (Figure 56)

DIESEL 2.8L AND 3.1L



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WATER PUMP

DIESEL 2.8L AND 3.1L

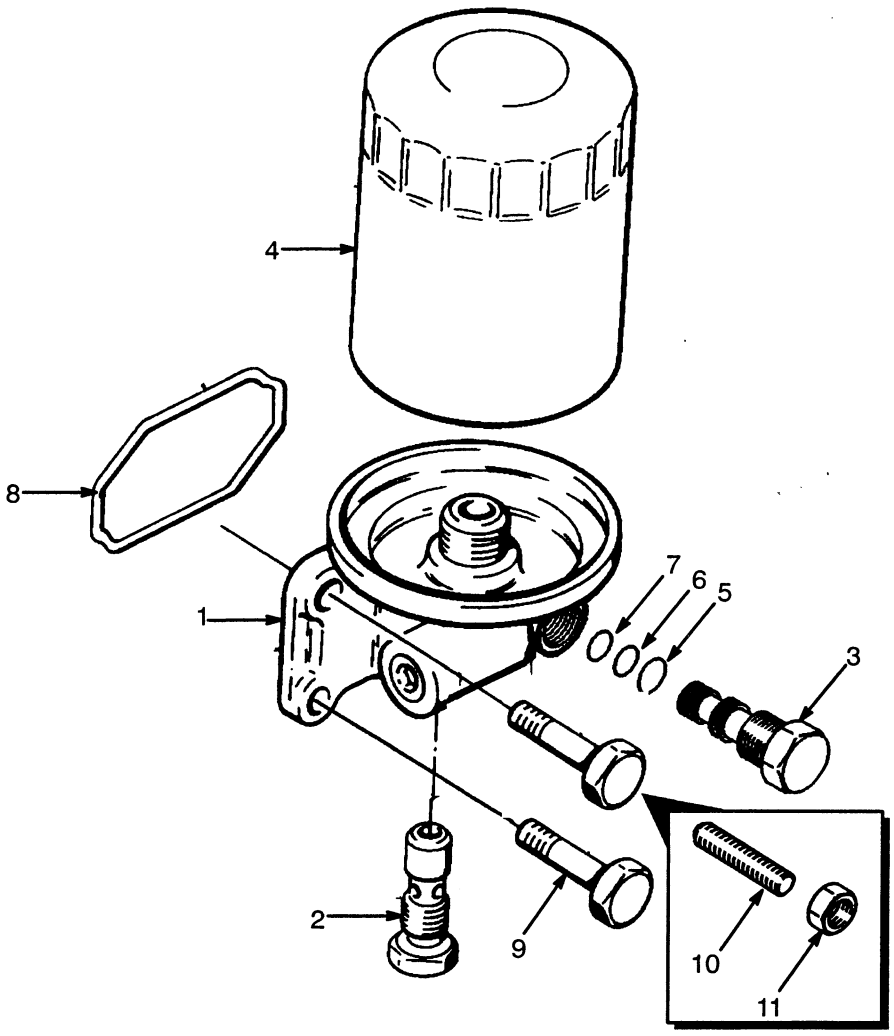
REF		PART NO.	NAME OF PART	QTY
1		1338457	Water Pump	1
2		1374948	Cover	1
3	a	1342613	Gasket	1
4	a	1329333	Impeller	1
5	a	1329332	Bearing	1
6	a	1329337	Seal	1
7		324644	Mount	1
8	a	1329339	Bearing	1
9		1342614	Fitting	2
10		1342615	Setscrew	1
11		292681	Washer	1
12		1374949	Screw	3
13		324167	Screw	1
14		1338458	Gasket	1
15		1338459	Capscrew	2
15		1338460	Capscrew	1
16		324126	Stud	3
17		239503	Nut	3
18		292681	Washer	3
19		1338468	Capscrew	2
19		1337685	Capscrew	3
20	b	1338463	Housing	1
20	c	1374941	Housing	1
20	b	1338467	Gasket	1
20	ch	1374943	Gasket	1
21		1338461	Water Outlet	1
22	fk	1334272	Gasket	1
22	gh	1334272	Gasket	1
23	b	1338462	Thermostat (180° F)	1
23	c	1374940	Thermostat (180° F)	1
24	b	1338466	Clamp	2
24	c	1374942	Clamp	2
25		324375	O-Ring	1
26		1338465	By-pass Hose	1
27	b	1338468	Capscrew	1
27	c	1374946	Capscrew	1
28	d	1338472	Fan	1
28	e	1375151	Fan	1
29	b	1338471	Spacer	1
29	c	324366	Spacer	1
30	b	1338470	Fan Pulley	1
30	c	1374944	Fan Pulley	1
31		1376448	Belt	1
32	b	1361549	Temperature Switch	1
32	c	1369439	Temperature Switch	1
33	c	1320939	Temperature Sender	1
34	c	1374947	Washer	4

a Included In Repair Kit 1342611
b 2.8L Last Used On S/N D177B-8291
c 3.1L First Used On S/N D177B-8292
d Last Used On S/N D177B-12749
e First Used On S/N D177B-12750
f 2.8L
g 3.1L
h Included In Seal Kit 1457161
k Included In Seal Kit 1457015

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OIL FILTER (Figure 57)

DIESEL 2.8L AND 3.1L



REF		PART NO.	NAME OF PART	QTY
		1338434	Oil Filter	1
1		1338435	Housing	1
2		1338436	Check Valve	1
3		1338437	Plug	1
4		1374939	Oil Filter	1
5		1338439	O-Ring	1
6		1338440	O-Ring	1
7		1338441	O-Ring	1
8	a	1374932	Gasket	1
8	bc	1374932	Gasket	1
9	a	1338442	Capscrew	4
9	b	1374649	Capscrew	2
10	b	1329344	Stud	2
11	b	1374933	Nut	2

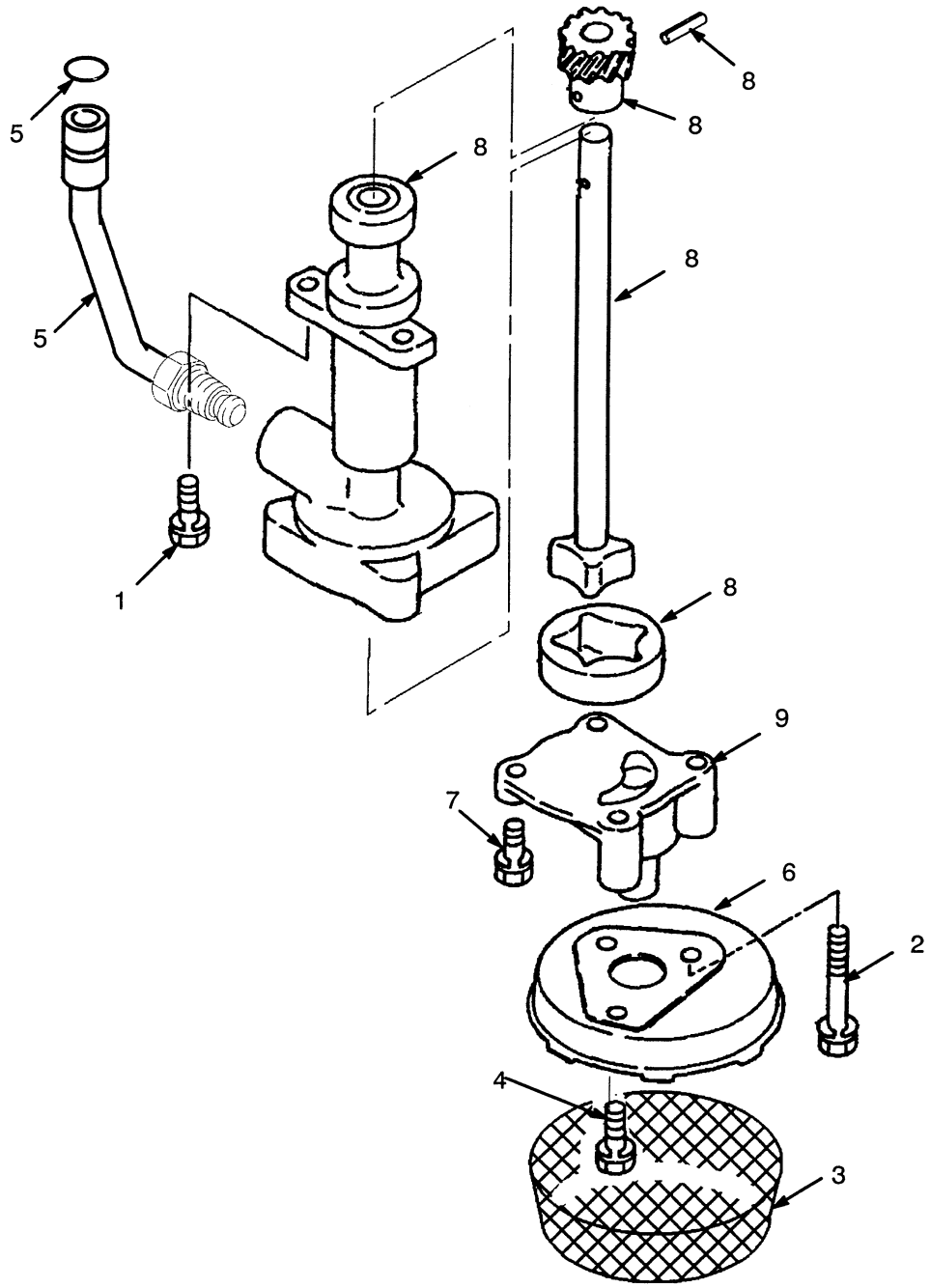
a 2.8L
b 3.1L
c Included In Seal Kit 1457161

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OIL PUMP (Figure 58)

DIESEL 2.8L AND 3.1L



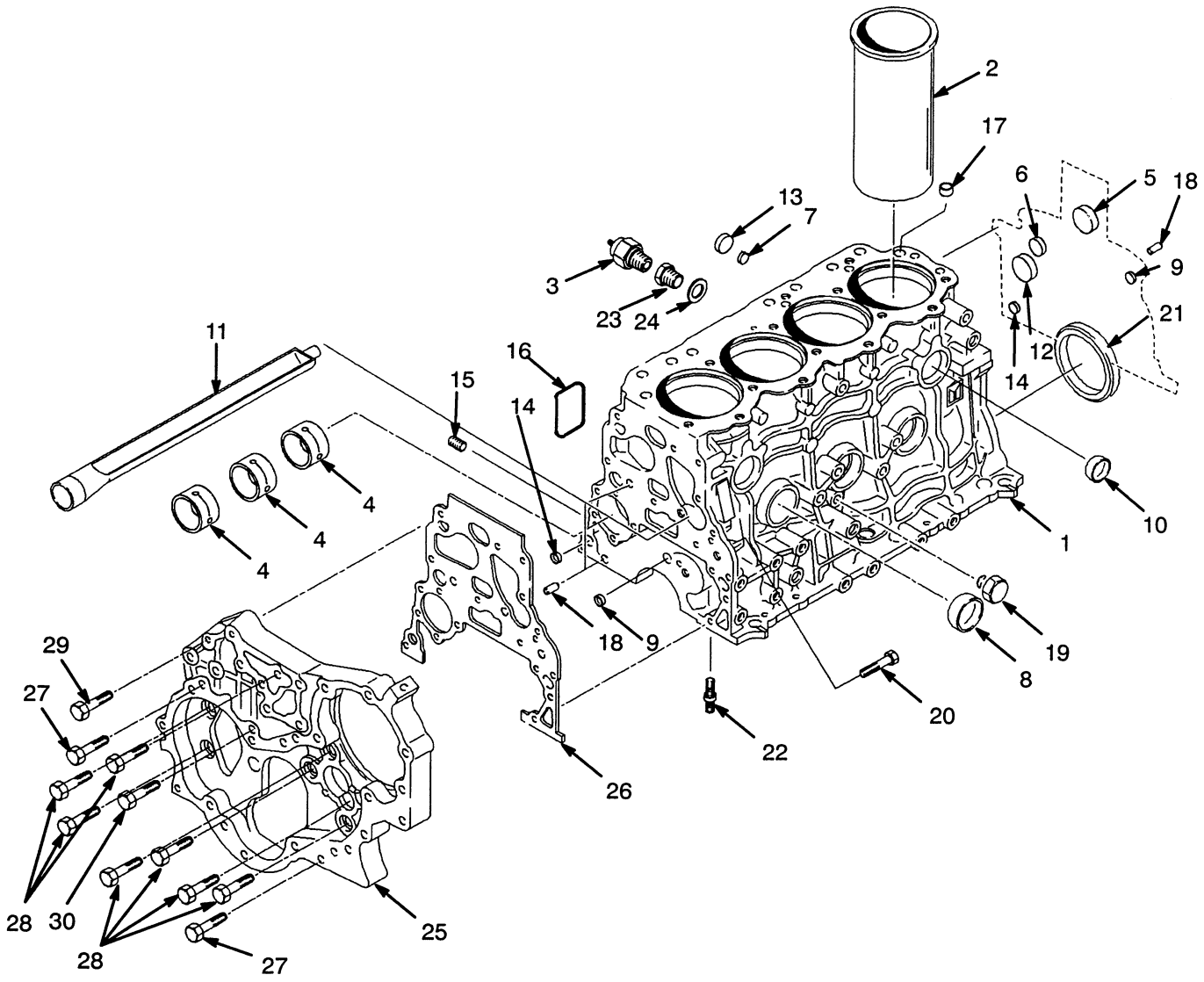
REF		PART NO.	NAME OF PART	QTY
		1329314	Oil Pump	1
1		324263	Capscrew	2
2		388278	Capscrew	2
3		324260	Screen	1
4		1374655	Capscrew	1
5		1338448	Pipe	1
5	a	1338449	O-Ring	1
5	bc	1338449	O-Ring	1

REF	PART NO.	NAME OF PART	QTY
6	324261	Case	1
7	373658	Capscrew	2
8	1342600	Pump Rotor	1
9	324257	Cover	1

a 2.8L
b 3.1L
c Included In Seal Kit 1457161

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CYLINDER BLOCK (Figure 59)
DIESEL 3.1L
FIRST USED ON S/N D177B-8292



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CYLINDER BLOCK

DIESEL 3.1L

FIRST USED ON S/N D177B-8292

REF	PART NO.	NAME OF PART	QTY
	1356396	Engine	1
1	1374638	Cylinder Block	1
2	1456577	Cylinder Liner (1-AX)	4
2	1456581	Cylinder Liner (1-CX)	4
2	1456582	Cylinder Liner (2-AX)	4
2	1456583	Cylinder Liner (2-CX)	4
2	1456584	Cylinder Liner (3-AX)	4
2	1456585	Cylinder Liner (3-CX)	4
2	1456586	Cylinder Liner (4-AX)	4
2	1456587	Cylinder Liner (4-CX)	4
3	1374971	Oil Pressure Switch	1
4	1337678	Bearing Kit (Standard)	1
4	1374978	Bearing Kit (0.50 mm)	1
4	1374979	Bearing Kit (1.00 mm)	1
5	324139	Cup	1
6	324140	Cup	1
7	323817	Plug	3
8	323815	Cup	3
9	323818	Cup	1
10	324141	Cup	2
11	1374640	Water Duct	1
12	324144	Cup	1
13	324139	Cup	3
14	323816	Cup	2
15	324146	Plug	3
16	1337680	Seal	1
17	1329318	Dowel	2
18	1337693	Pin	3
19	14385	Fitting	1
20	324173	Bolt	1
21 a	1374642	Seal	1
22	1334681	Stud	10
23	1361544	Connector	1
24 a	324148	Washer	1
25	1374643	Case	1
26 a	1374644	Packing	1
27	1334675	Bolt	10
28	1337685	Bolt	7
29	1374649	Bolt	1
30	1338460	Bolt	1

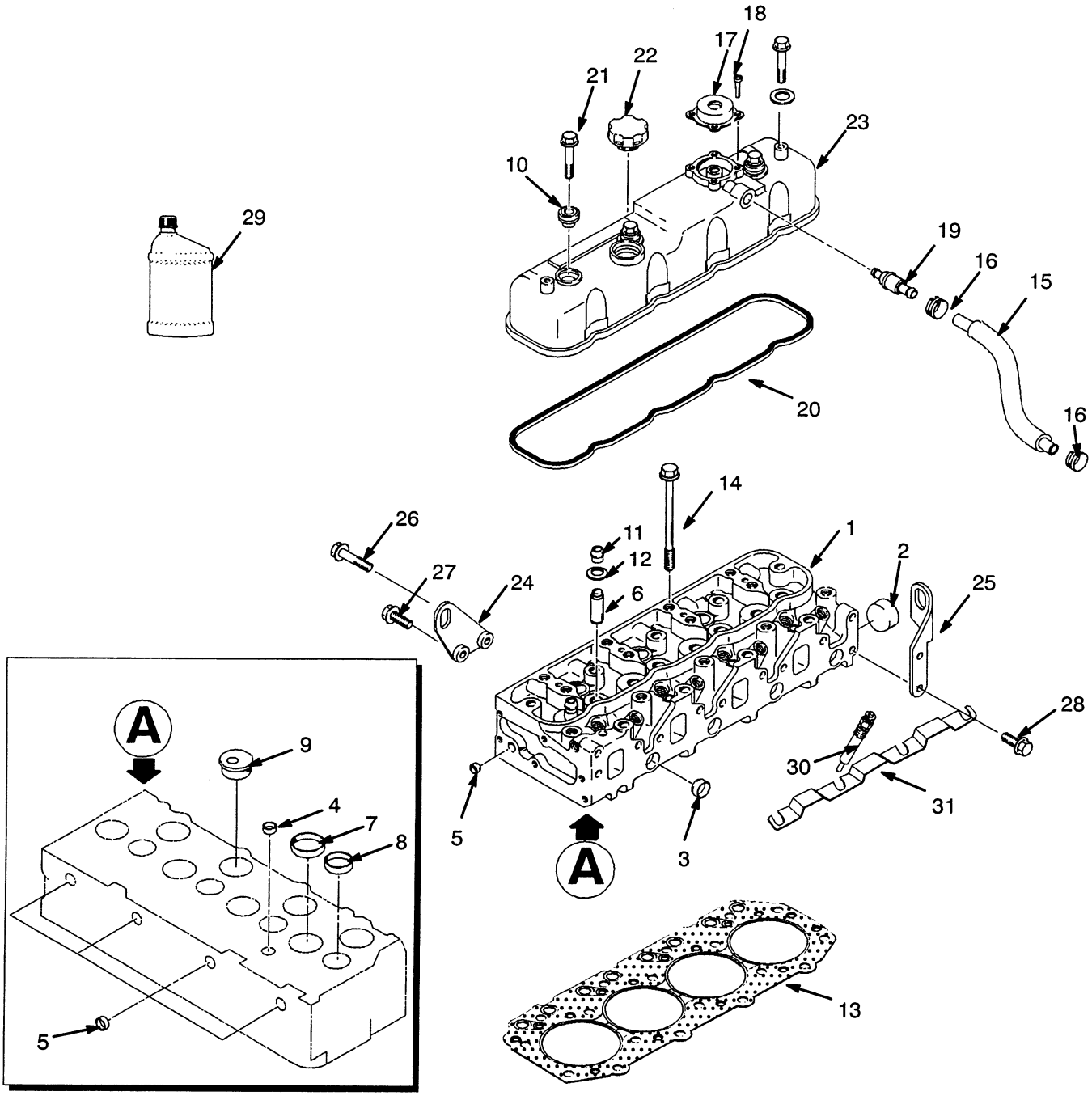
a Included In Seal Kit 1457161

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CYLINDER HEAD (Figure 60)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



CYLINDER HEAD

DIESEL 3.1L

FIRST USED ON S/N D177B-8292

REF		PART NO.	NAME OF PART	QTY
1		1374630	Cylinder Head	1
2		323815	Cup	1
3		1334651	Cup	7
4		323816	Cup	3
5		323818	Cup	5
6		323822	Guide	8
7		1374631	Insert	4
8		1334656	Insert	4
9		1374632	Plug	4
10	a	1334661	Packing	3
11	a	323823	Seal	8
12		1334653	Spring Seat	8
13		1374633	Gasket (1.50 mm Grade A)	1
13	a	1374974	Gasket (1.55 mm Grade B)	1
13		1374975	Gasket (1.60 mm Grade C)	1
14		1374634	Bolt	18
15		1374636	Hose	1
16		1334654	Clip	2
17		1334665	Oil Cap	1
18		1334672	Screw	4
19		1334666	Breather Pipe	1
20	a	1334664	Gasket	1
21		1334662	Nut Cap	3
22		1334657	Cap	1
22	a	1457164	Gasket	1
23		1374635	Cover	1
24		1338776	Bracket (Front)	1
25		1374965	Bracket (Rear)	1
26		1338754	Bolt	1
27		1374966	Bolt	1
28		1338780	Bolt	2
29		3021240	Engine Oil (12 Quart)	AR
30		1374969	Glow Plug	4
31		1374970	Connector	1

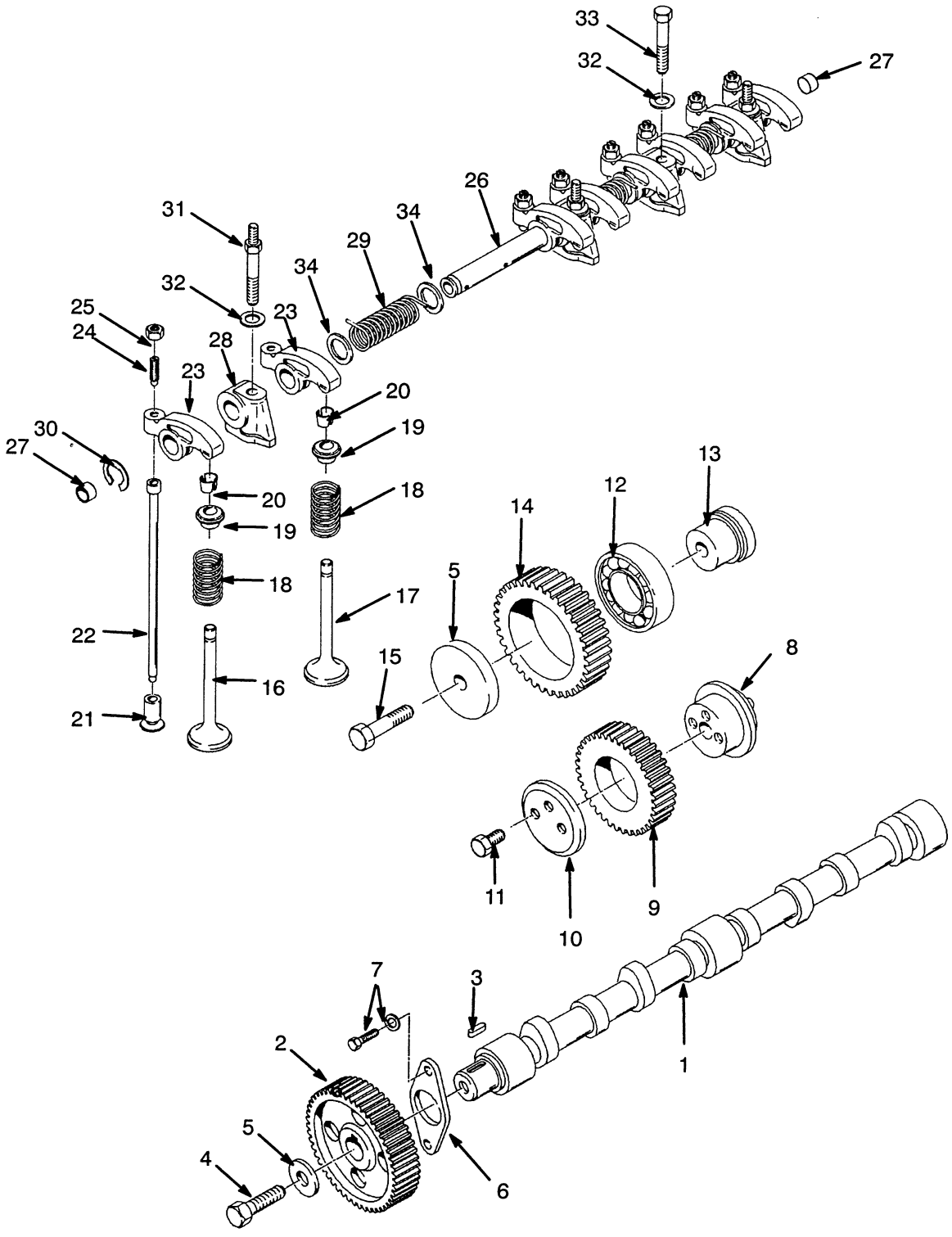
a Included In Seal Kit 1457161

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CAMSHAFT AND VALVES (Figure 61)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



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CAMSHAFT AND VALVES

DIESEL 3.1L

FIRST USED ON S/N D177B-8292

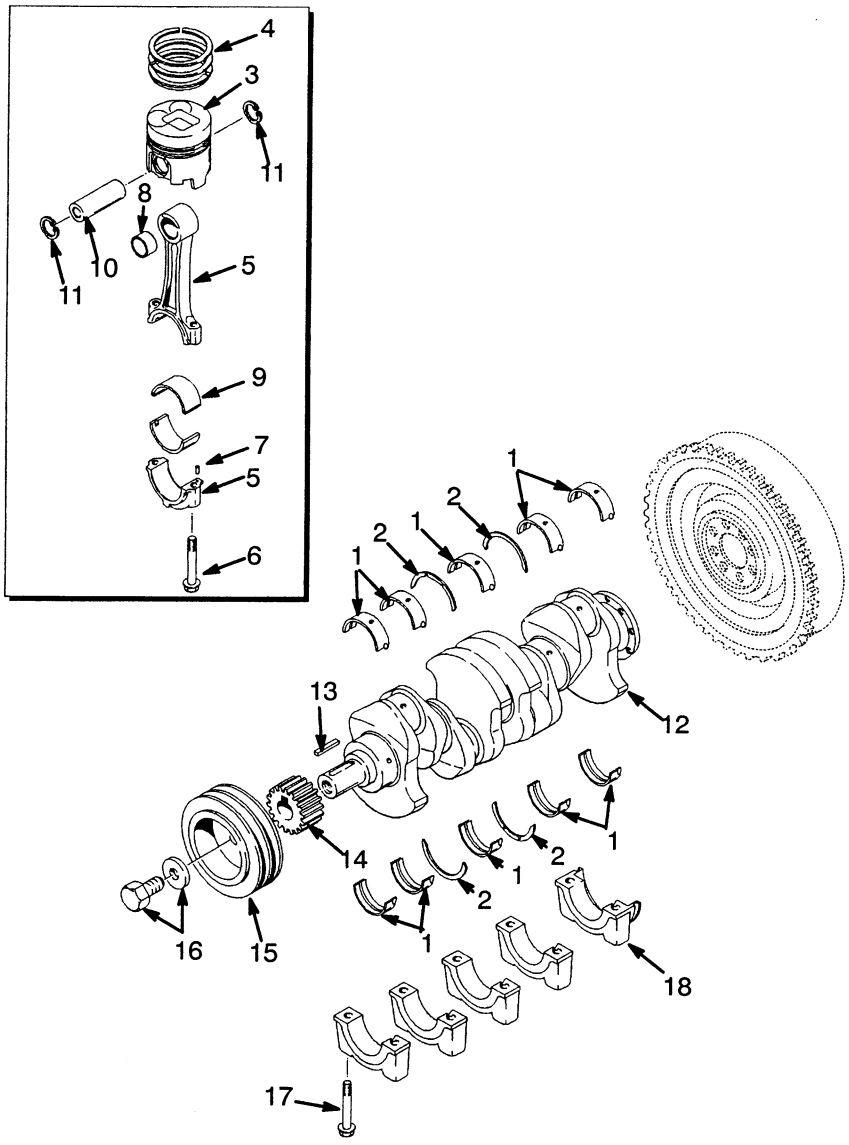
REF	PART NO.	NAME OF PART	QTY
1	1374669	Camshaft	1
2	1374670	Gear	1
3	324292	Key	1
4	324293	Bolt	1
5	324294	Washer	2
6	1338409	Thrust Plate	1
7	1338410	Bolt and Washer	2
8	1338411	Shaft	1
9	1374671	Gear	1
10	1338413	Thrust Plate	1
11	373663	Bolt	2
12	1374672	Bearing	1
13	1338415	Shaft	1
14	1374673	Gear	1
15	1338417	Bolt	1
16	1374674	Inlet Valve	4
17	1374925	Exhaust Valve	4
18	1338420	Spring	8
19	1374926	Spring Seat	8
20	324306	Collar	16
21	1338422	Tappet	8
22	1374927	Push Rod	8
23	1338424	Rocker Arm	8
24	388280	Adjusting Screw	8
25	324314	Nut	8
26	1374928	Shaft	1
27	324316	Plug	2
28	1338428	Bracket	4
29	1374929	Spring	3
30	324319	Snap Ring	2
31	1338430	Bolt	3
32	1338431	Washer	4
33	1338432	Bolt	1
34	1338433	Washer	6

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CRANKSHAFT AND PISTON (Figure 62)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



REF		PART NO.	NAME OF PART	QTY
1	a	1374657	Bearing Set (Blue)	AR
1	a	1374976	Bearing Set (Black)	AR
1	a	1374977	Bearing Set (Green)	AR
2		1330003	Bearing	2
3	b	1458350	Piston	4
3	c	1458351	Piston	4
4		1374659	Piston Ring Set	4
5		1374660	Connecting Rod	4
6		1374661	Bolt	2
7		1374662	Pin	2
8		1374663	Bushing	1
9		1334697	Bearing Set	4
10		1374664	Pin	4

REF	PART NO.	NAME OF PART	QTY
11	1374665	Snap Ring	8
12	1374666	Crankshaft	1
13	348437	Key	1
14	1374667	Gear	1
15	1338404	Pulley	1
16	1338405	Bolt	1
17	1337677	Bolt	10
18	....	Cap	5

a Bearing Sets Are Select To Fit. See Service Manual.

b With 'A' Or 'B' Stamp

c With 'C' Or 'D' Stamp

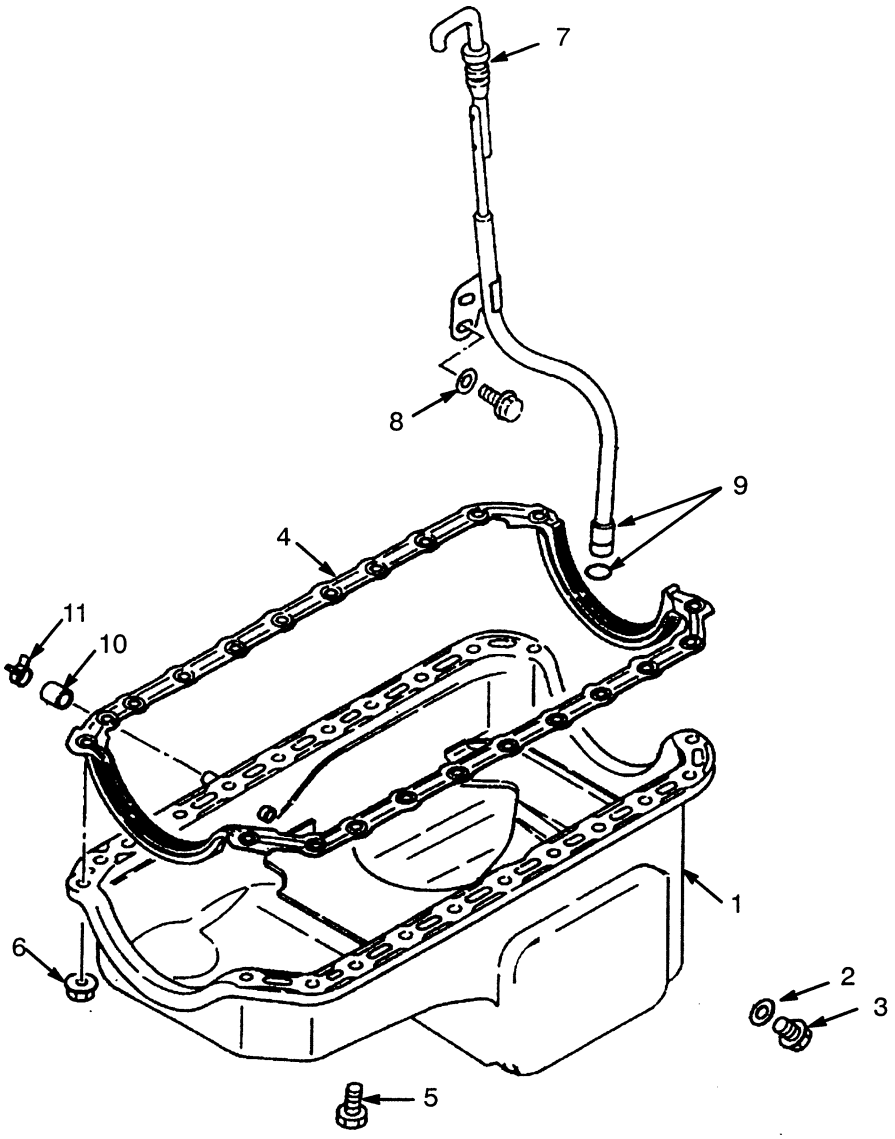
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CRANKCASE AND OIL PAN (Figure 63)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



REF		PART NO.	NAME OF PART	QTY
1		1374651	Oil Pan	1
2	a	1334678	Packing	1
3		1334679	Drain Plug	1
4	a	1374652	Packing	1
5		1334680	Bolt	12
6		1334682	Nut	10
7		1334685	Oil Level Tube	1

REF	PART NO.	NAME OF PART	QTY
8	324434	Washer	1
9	1374653	Oil Level Tube	1
10	1360822	Cap	1
11	1374654	Clip	1

a Included In Seal Kit 1457161

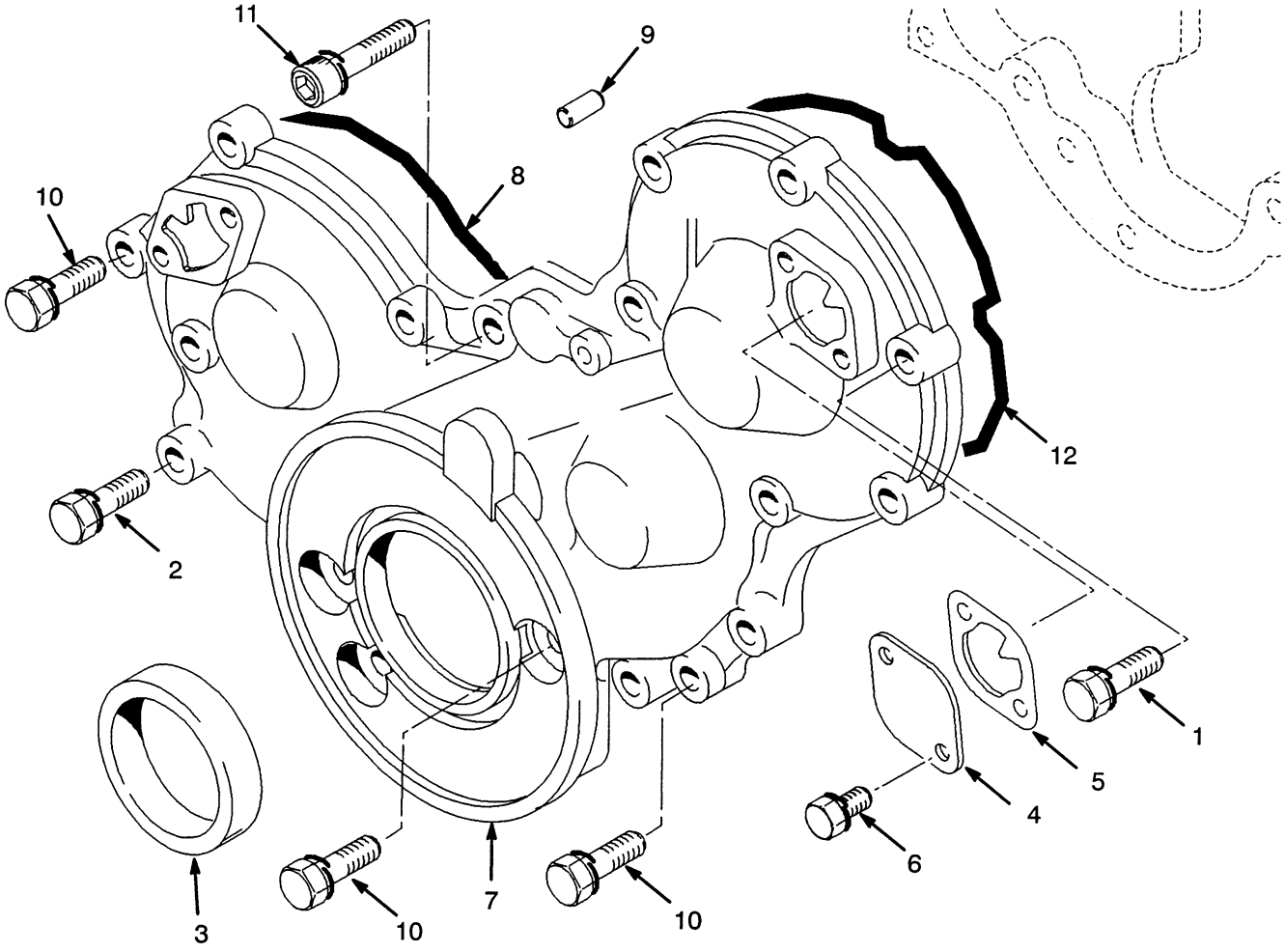
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See Service Manual for service procedures

TIMING GEAR (Figure 64)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



REF		PART NO.	NAME OF PART	QTY
1		1337696	Bolt	6
2		1374648	Bolt	1
3	a	1374645	Seal	1
4		324200	Cover	2
5	a	324201	Packing	2
6		1361524	Bolt	4
7		1337691	Cover	1

REF		PART NO.	NAME OF PART	QTY
8	a	1337692	O-Ring	1
9		1337693	Pin	2
10		1337694	Bolt	8
11		1337695	Bolt	1
12	a	1459382	O-Ring	1

a Included In Seal Kit 1457161

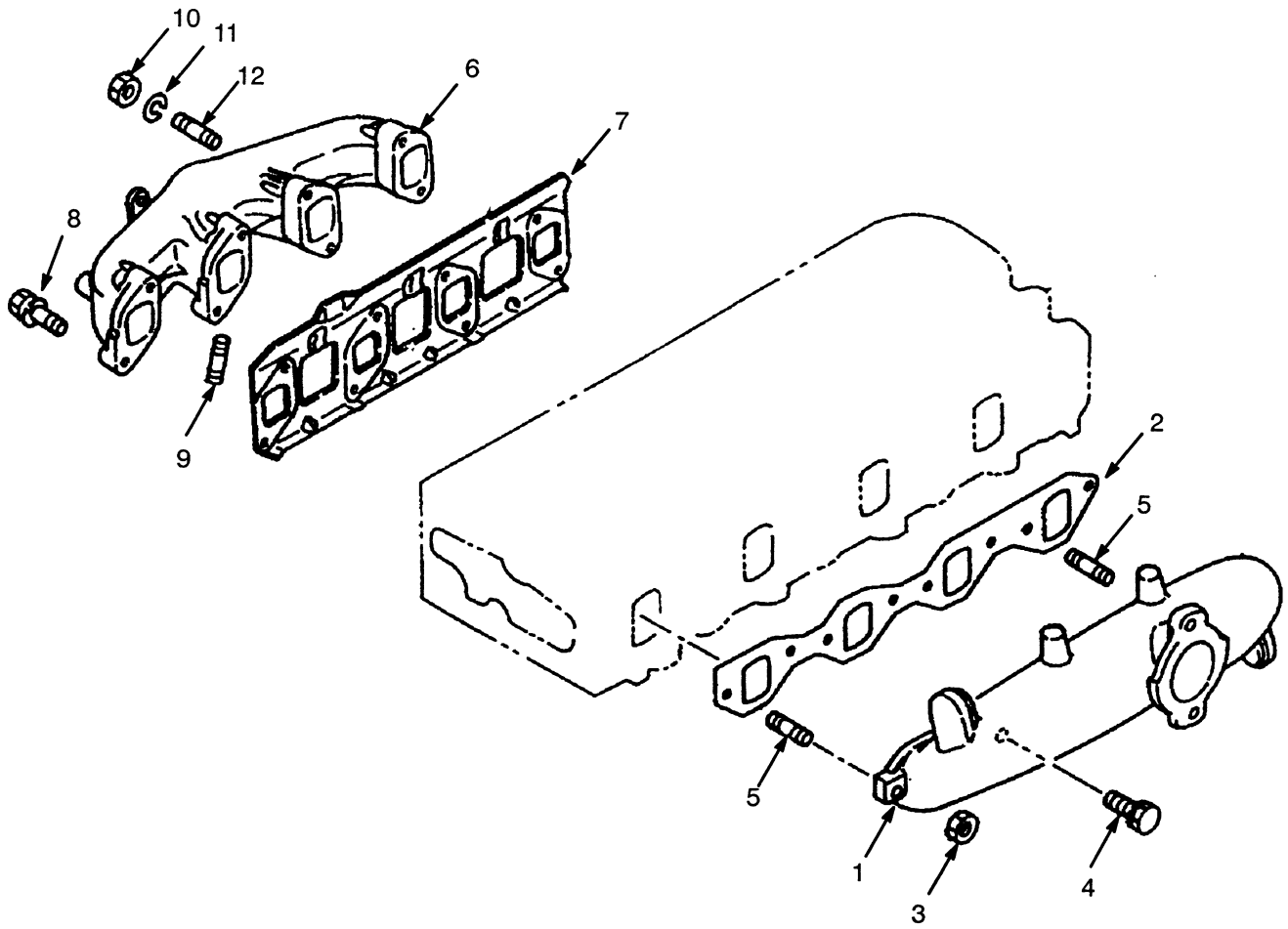
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MANIFOLDS (Figure 65)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



REF		PART NO.	NAME OF PART	QTY
1		1338752	Inlet Manifold	1
2	a	1361546	Gasket	1
3		1374954	Nut	2
4		1338754	Bolt	6
5		1329344	Stud	2
6		1374951	Exhaust Manifold	1
7	a	1388391	Gasket	1

REF	PART NO.	NAME OF PART	QTY
8	1374955	Bolt	6
9	1374956	Stud	4
10	239503	Nut	2
11	292681	Washer	2
12	1374953	Stud	2

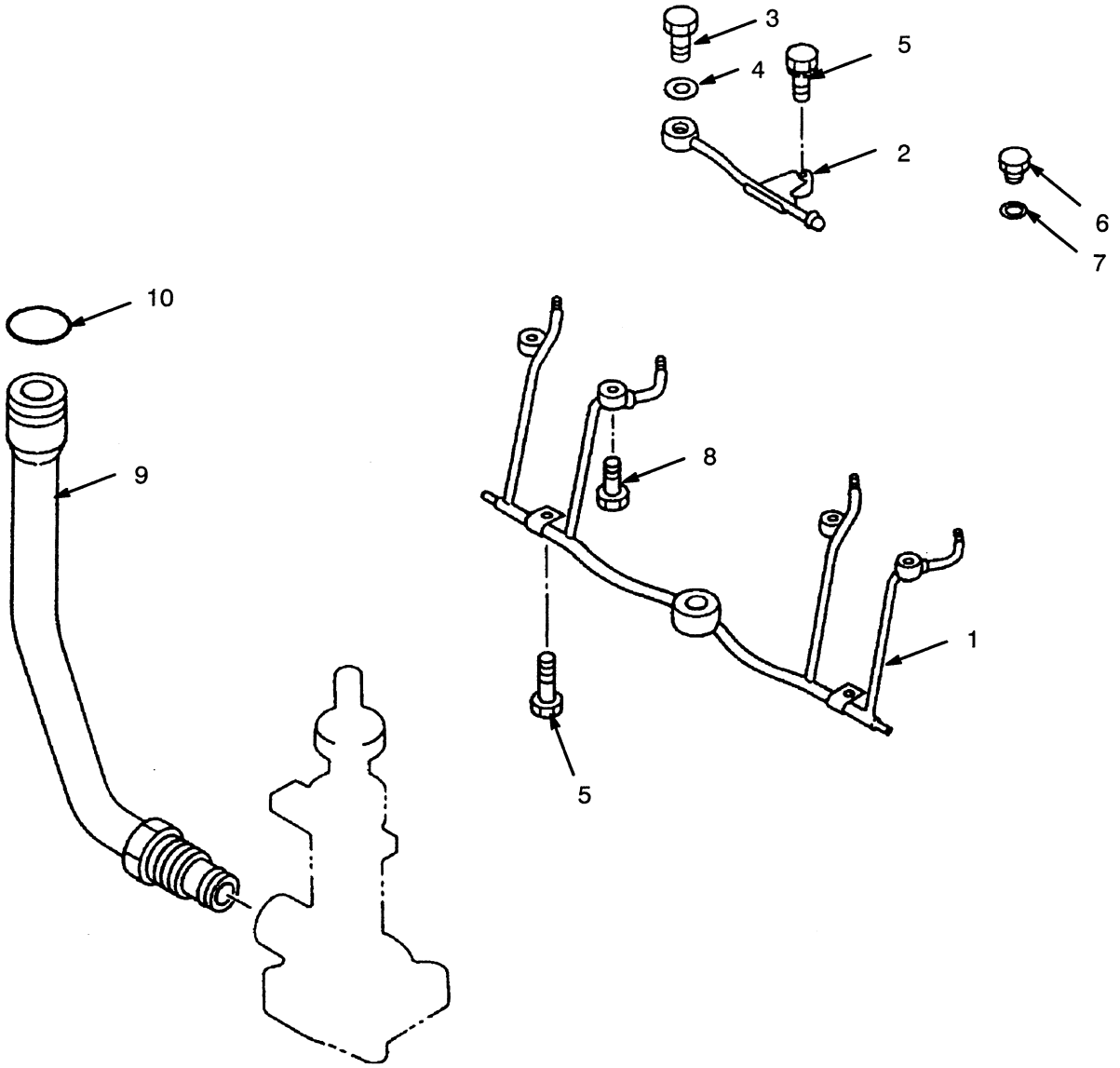
a Included In Seal Kit 1457161

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LUBRICATION SYSTEM (Figure 66)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



REF		PART NO.	NAME OF PART	QTY
1		1374935	Pipe	1
2		1338453	Pipe	1
3		1338454	Bolt	1
4	a	324412	Seal	1
5		1361537	Bolt	3
6		324385	Plug	1
7	a	324356	Seal	1

REF	PART NO.	NAME OF PART	QTY
8	1374936	Bolt	4
9	....	Pipe ☞ Figure 58	1
10	....	O-Ring ☞ Figure 58	1

a Included In Seal Kit 1457161

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FUEL SYSTEM

AIR FILTER AND BREATHER (Figure 89)
GASOLINE AND LPG 3.0L ..... Page 152

AIR FILTER (Figure 88)
GASOLINE AND LPG 2.0L AND 2.2L ..... Page 150

AIR FILTER (Figure 90)
DIESEL ..... Page 154

CARBURETOR (Figure 82)
GASOLINE 2.0L ..... Page 139

CARBURETOR (Figure 83)
LPG 2.0L ..... Page 140

CARBURETOR (Figure 85)
LPG 2.2L ..... Page 144

CARBURETOR (Figure 86)
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DUAL FUEL (Figure 71)
3.0L ..... Page 118

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LPG ..... Page 162

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FUEL SYSTEM (CONTINUED)

FUEL (Figure 76)
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GASOLINE 2.2L ..... Page 130

FUEL (Figure 78)
GASOLINE 3.0L ..... Page 132

FUEL (Figure 79)
DIESEL 2.4L ..... Page 134

FUEL (Figure 80)
DIESEL 3.1L ..... Page 136

FUEL INJECTION (Figure 91)
DIESEL 2.4L ..... Page 156

FUEL INJECTION (Figure 92)
DIESEL 2.8L
LAST USED ON S/N D177B-8291 ..... Page 158

FUEL INJECTION (Figure 93)
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GOVERNOR (Figure 81)
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INJECTION PUMP (Figure 87)
DIESEL 2.4L, 2.8L, AND 3.1L ..... Page 149

LPG CONVERTER (Figure 95)
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FUEL SYSTEM (CONTINUED)

LPG CONVERTER (Figure 96)
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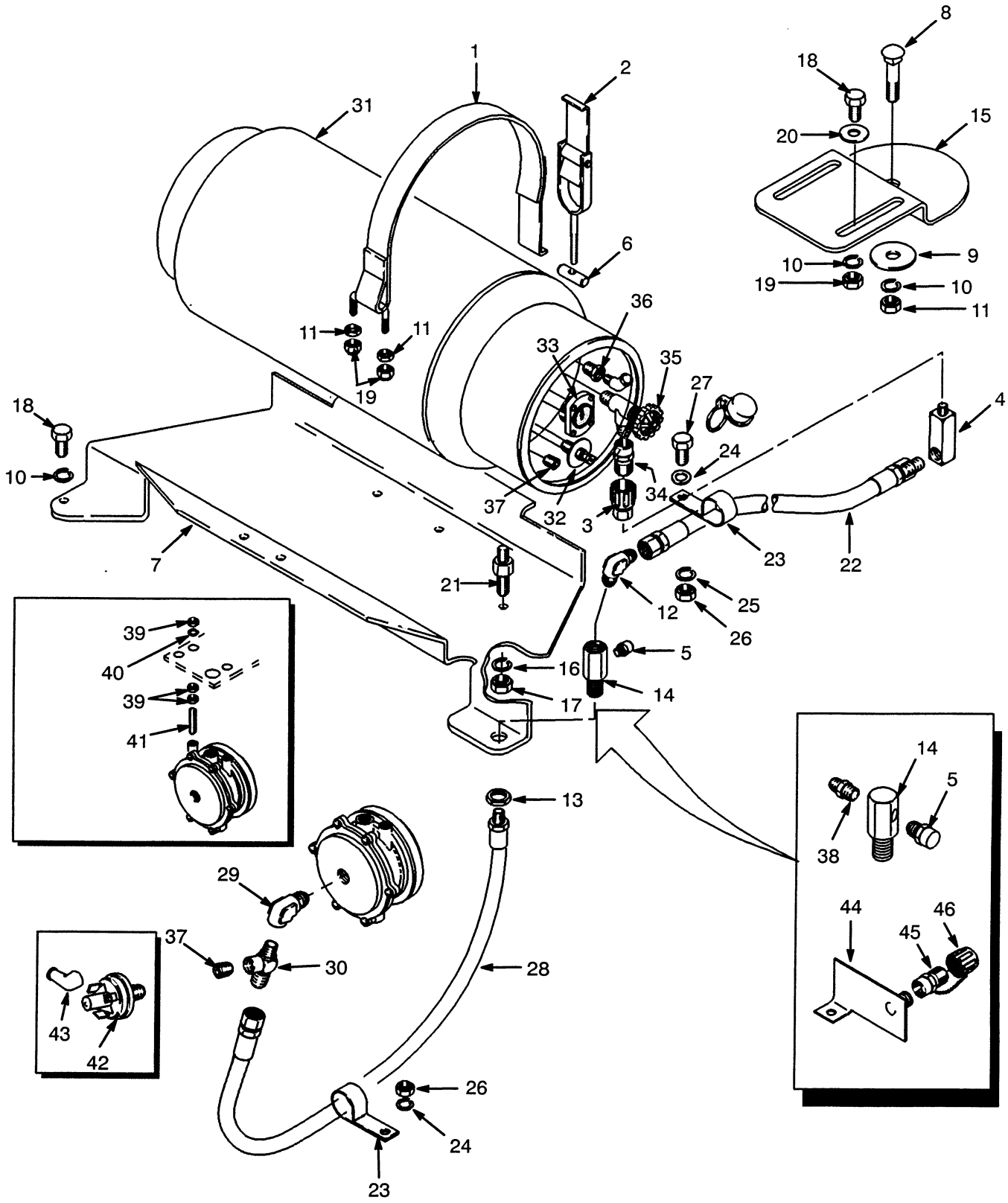
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THROTTLE LINKAGE (Figure 99)
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LPG TANK (Figure 67)



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LPG TANK

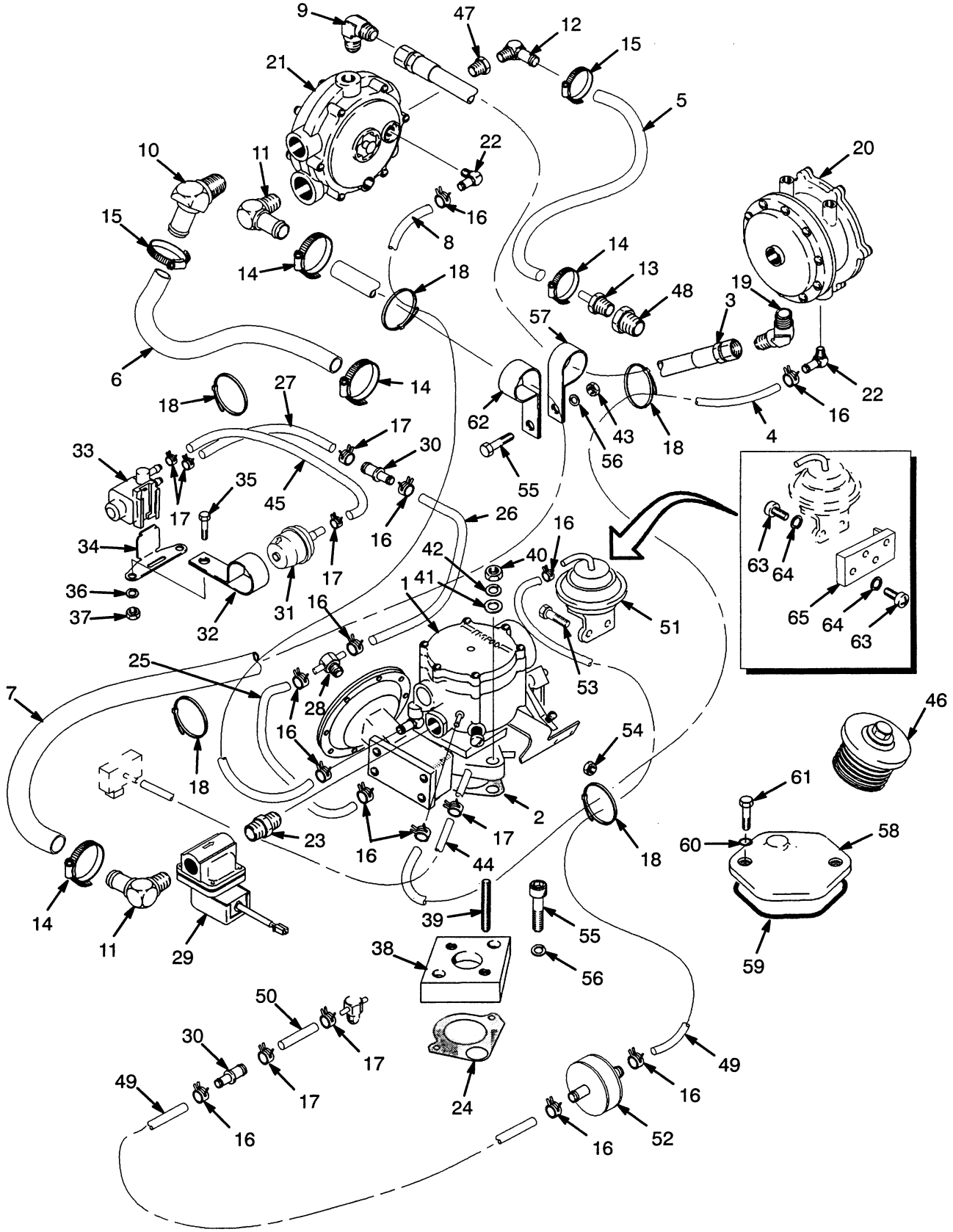
REF		PART NO.	NAME OF PART	QTY
1	a	1339769	Strap	1
1	b	1375240	Strap	1
2	m	196297	Latch	1
2	f	1383574	Latch	1
3		97999	Disconnect	1
4	a	1327554	Fitting	1
4	e	1375231	Fitting	1
4	f	12822	Fitting	1
5		101809	Relief Valve	1
6		147294	Nut	1
7	a	1343434	Bracket	1
7	e	1375201	Bracket	1
7	f	1383571	Bracket	1
8		1339706	Bolt	1
9		300939	Spacer	1
10		292682	Lockwasher	5
11		136692	Nut	3
12	a	16863	Fitting	1
13		15034	Nut	1
14	a	1325033	Fitting	1
14	b	1374601	Fitting	1
15		1343421	Bracket	1
16	a	292683	Lockwasher	1
17	a	296130	Nut	1
18		287854	Capscrew	4
19		316826	Nut	4
20		320159	Washer	3
21	m	1300066	Pin	1
21	f	2022566	Pin	1
22	a	252927	Hose	1
22	b	1375230	Hose	1
23	a	1347202	Clamp	1
24	a	320157	Washer	2
25	a	292681	Lockwasher	1
26	a	239503	Nut	2
27	a	136681	Capscrew	1
28	h	1325037	Hose	1
28	k	1388579	Hose	1
28	h	864809	Hose	1
29		1351145	Fitting	1
30		1351146	Fitting	1
31	c	1328890	Tank (LPG, Fuel)	1
31	d	1328892	LPG Tank	1
32		1337641	Sight Gauge	1
33		1337642	Float Gauge	1
34		1337643	Valve	1
35		1337644	Service Valve	1
36		1337645	Fill Valve	1
37		15483	Fitting	2
38	b	16134	Fitting	1
39		221703	Nut	6
40		15154	Lockwasher	2
41		220961	Setscrew	1
42	g	1351133	Switch	1
43	g	190383	Boot	1
44	g	864858	Bracket	1
45	g	864737	Connector	1
46	g	1369737	Cap	1

a Last Used On S/N D177B-15258
b First Used On S/N D177B-15259
c Steel Construction
d Aluminium Construction
e Used On S/N D177B-15259 Thru D177B-23328
f First Used On S/N D177B-23329
g Dual Fuel System
h Last Used On S/N D177B-35299
k First Used On S/N D177B-35300
m Last Used On S/N D177B-23328

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FUEL SYSTEM (Figure 68)

LPG 2.2L



FUEL SYSTEM

LPG 2.2L

REF		PART NO.	NAME OF PART	QTY
1		.....	Carburetor	1
			☞ Figure 85	
2		1359452	Gasket	1
3	a	329700	Hose	1
3	b	1381921	Hose	1
4		1347166	Hose	1
5		193772	Hose	1
6		1363896	Hose	1
7		1351084	Hose	1
8		298874	Hose	1
9		14358	Fitting	1
10		1336135	Fitting	1
11		201800	Fitting	2
12		17215	Fitting	1
13		17217	Fitting	1
14		130845	Clamp	4
15		168718	Clamp	2
16		366473	Clamp	4
17		369815	Clamp	8
18		137852	Strap Clamp	8
19		16863	Fitting	1
20		.....	Filter & Lock-Off Valve	1
			☞ Figure 94	
21		.....	LPG Converter	1
			☞ Figure 95, Figure 96	
22		175347	Fitting	2
23		15351	Fitting	1
24		1343648	Gasket	1
25		377209	Hose	1
26		377210	Hose	1
27		1354113	Hose	1
28		1329146	Fitting	1
29		1354203	Solenoid Valve	1
29		1369456	Coil	1
29		1369457	Seal Kit	1
30		1347164	Fitting	2
31		1334847	Filter	1
32		1334845	Clamp	1
33		1345677	Solenoid Valve	1
34		1345676	Bracket	1
35		287816	Capscrew	2
36		292680	Washer	2
37		136687	Nut	2
38		1356391	Spacer	1
39		1354092	Stud	2
40		136692	Nut	2
41		320159	Washer	2
42		292682	Washer	2
43		239503	Nut	1
44		1354114	Hose	1
45		1354117	Hose	1
46		1352123	Fuel Cap	1
47		63108	Fitting	1
48		69815	Fitting	1
49		372002	Hose	2
50		1356454	Hose	1
51		1346872	Actuator	1
52		1350400	Valve	1
53		293743	Capscrew	2
54		316825	Nut	2
55		136681	Capscrew	3
56		292681	Washer	3
57		178119	Clamp	1
58		1343414	Cover	1
59		1343449	Seal	1
60		353000	O-Ring	2
61		329067	Screw	2
62		1347202	Clamp	1
63	c	16712	Screw	4
64	c	15152	Lockwasher	4
65	c	1376609	Spacer	1

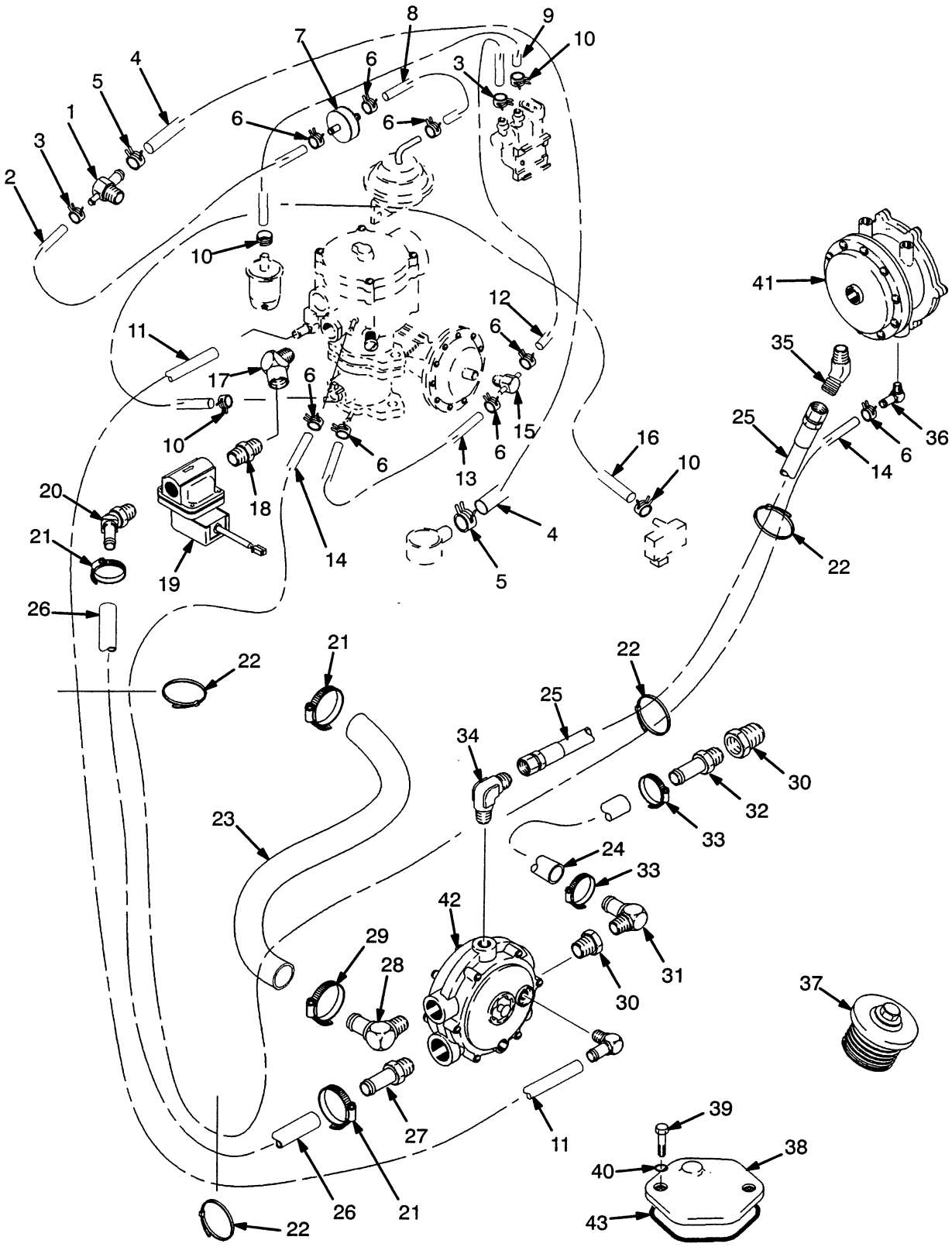
a Last Used On S/N D177B-16998
b First Used On S/N D177B-16999
c High Altitude Performance

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FUEL (Figure 69)

LPG 3.0L

LAST USED ON S/N D177B-39471



FUEL

LPG 3.0L

LAST USED ON S/N S/N D177B-39471

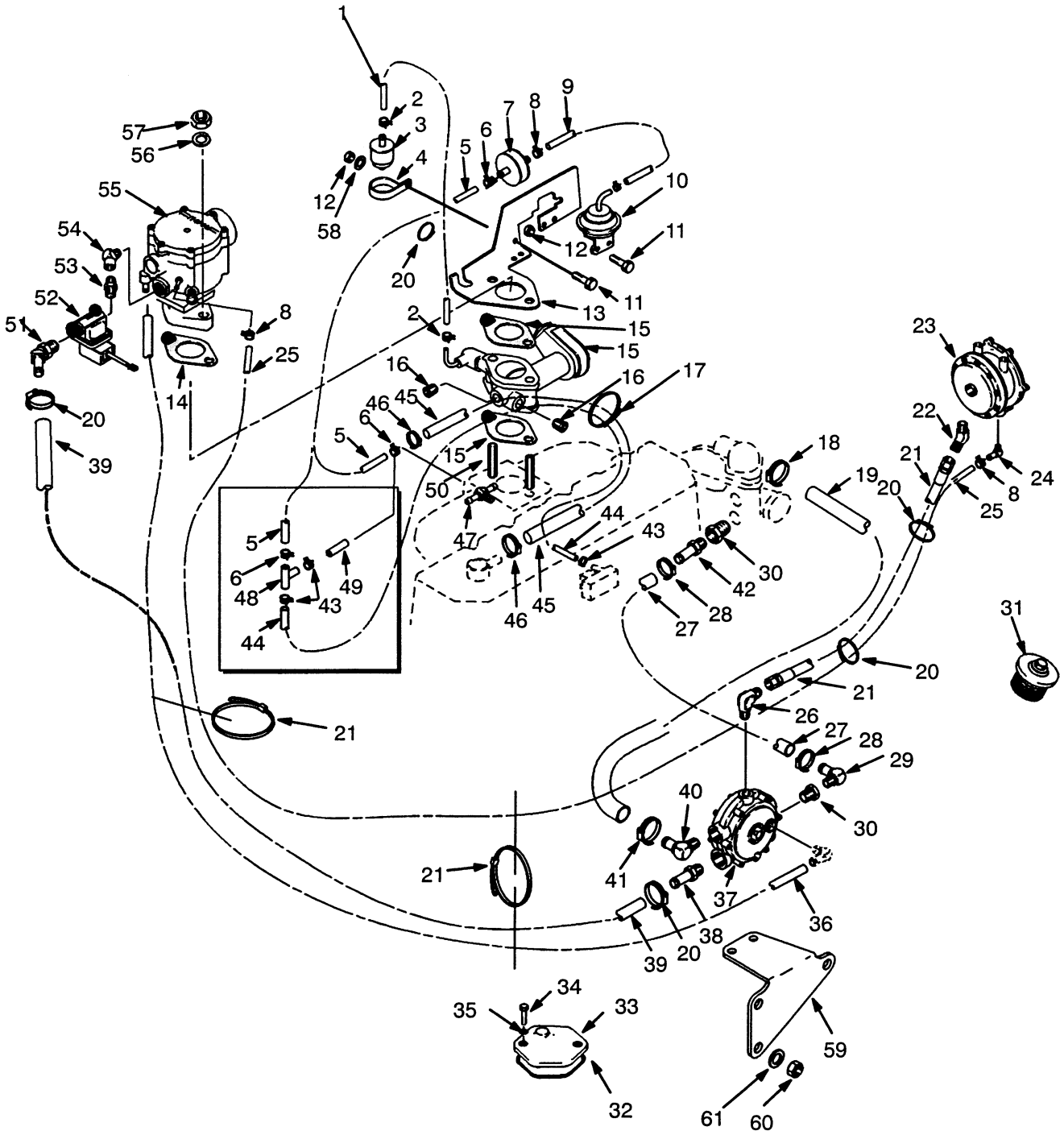
REF	PART NO.	NAME OF PART	QTY
1	1358515	Fitting	1
2	1360841	Hose	1
3	1333840	Clamp	3
4	1378537	Hose	1
5	353198	Clamp	2
6	366473	Clamp	7
7	1346874	Check Valve	1
8	372002	Hose	1
9	1354117	Hose	1
10	369815	Clamp	4
11	1375711	Hose	1
12	1376570	Hose	1
13	377209	Hose	1
14	1375713	Hose	1
15	1329146	Fitting	1
16	1376571	Hose	1
17	15351	Fitting	1
18	12824	Fitting	1
19	1354203	Solenoid Valve	1
19	1369456	Coil	1
19	1369457	Seal Kit	1
20	349366	Fitting	1
21	130845	Clamp	3
22	137852	Strap Clamp	6
23	1376666	Hose	1
24	193008	Hose	1
25	113011	Hose	1
26	1376568	Hose	1
27	201797	Fitting	1
28	125305	Fitting	1
29	130845	Clamp	1
30	63108	Fitting	2
31	17215	Fitting	1
32	17217	Fitting	1
33	168718	Clamp	2
34	14358	Fitting	1
35	16863	Fitting	1
36	175347	Fitting	1
37	1352123	Cap	1
38 a	1343414	Cover	1
38 b	1451568	Plate	1
38 b	288394	Sealant	AR
39	329067	Screw	2
40 a	353000	O-Ring	2
41	.....	Filter & Lock-Off Valve ☞ Figure 94	1
42	.....	LPG Converter ☞ Figure 96	1
43 a	1343449	Seal	1

a Last Used On S/N D177B-83919
b First Used On S/N D177B-83920

FUEL (Figure 70)

LPG 3.0L

FIRST USED ON S/N D177B-39471



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FUEL

LPG 3.0L

FIRST USED ON S/N D177B-39471

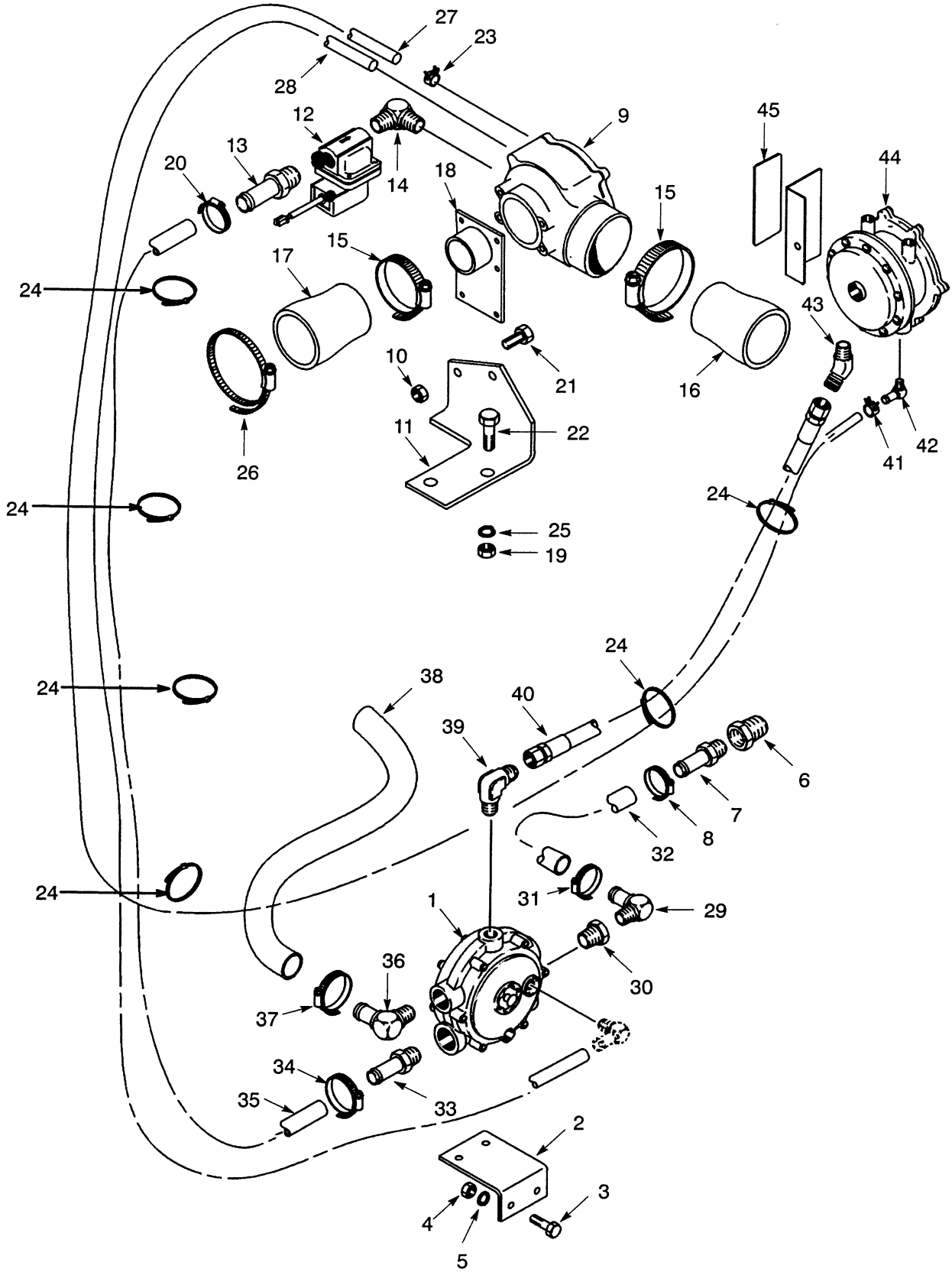
REF		PART NO.	NAME OF PART	QTY
1		1354117	Hose	1
2		369815	Clamp	4
3		1334847	Filter	3
4		1334845	Clamp	1
5		1360841	Hose	1
6		1333840	Clamp	2
6	a	1333840	Clamp	1
7		1350400	Check Valve	1
8		366473	Clamp	7
9		377209	Hose	1
10		1346872	Actuator	1
11		293743	Capscrew	2
12		316825	Nut	2
13		1389497	Bracket	1
14		195771	Gasket	1
15		340405	Governor	1
15		181763	Gasket	2
16		14349	Fitting	2
16		246108	Sealant	AR
17		137852	Strap Clamp	2
18		130845	Clamp	4
19		1376666	Hose	1
20		137852	Strap Clamp	6
21		113011	Hose	1
22		16863	Fitting	1
23		.....	Filter & Lock-Off Valve	1
			☞ Figure 94	
24		175347	Fitting	1
25		1375713	Hose	1
26		14358	Fitting	1
27		193008	Hose	1
28		168718	Clamp	2
29		17215	Fitting	1
30		63108	Fitting	2
31		1352123	Cap	1
32	b	1343449	Seal	1
33	b	1343414	Cover	1
33	c	1451568	Plate	1
33	c	288394	Sealant	AR
34		329067	Screw	2
35	b	353000	O-Ring	2
36		1375711	Hose	1
37		.....	LPG Converter	1
			☞ Figure 96,	
38		201797	Fitting	1
39		1376568	Hose	1
40		125305	Fitting	1
41		130845	Clamp	3
42		17217	Fitting	1
43	a	369815	Clamp	4
44	a	1376571	Hose	1
45		329073	Hose	1
46		353198	Clamp	2
47		1358515	Fitting	1
48	a	2034520	Fitting	1
49	a	1356454	Hose	1
50		175323	Stud	2
51		349366	Fitting	1
52		1354203	Solenoid Valve	1
52		1369456	Coil	1
52		1369457	Seal Kit	1
53		15351	Fitting	1
54		12824	Fitting	1
55		.....	Carburetor	1
			☞ Figure 86	
56		15920	Washer	2
57		15006	Nut	2
58		197067	Washer	1
59	a	1356513	Bracket	1
60	a	313828	Nut	3
61	a	320158	Washer	3

a With MSTS
b Last Used On S/N D177B-83919
c First Used On S/N D177B-83920

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DUAL FUEL (Figure 71)

3.0L



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DUAL FUEL

3.0L

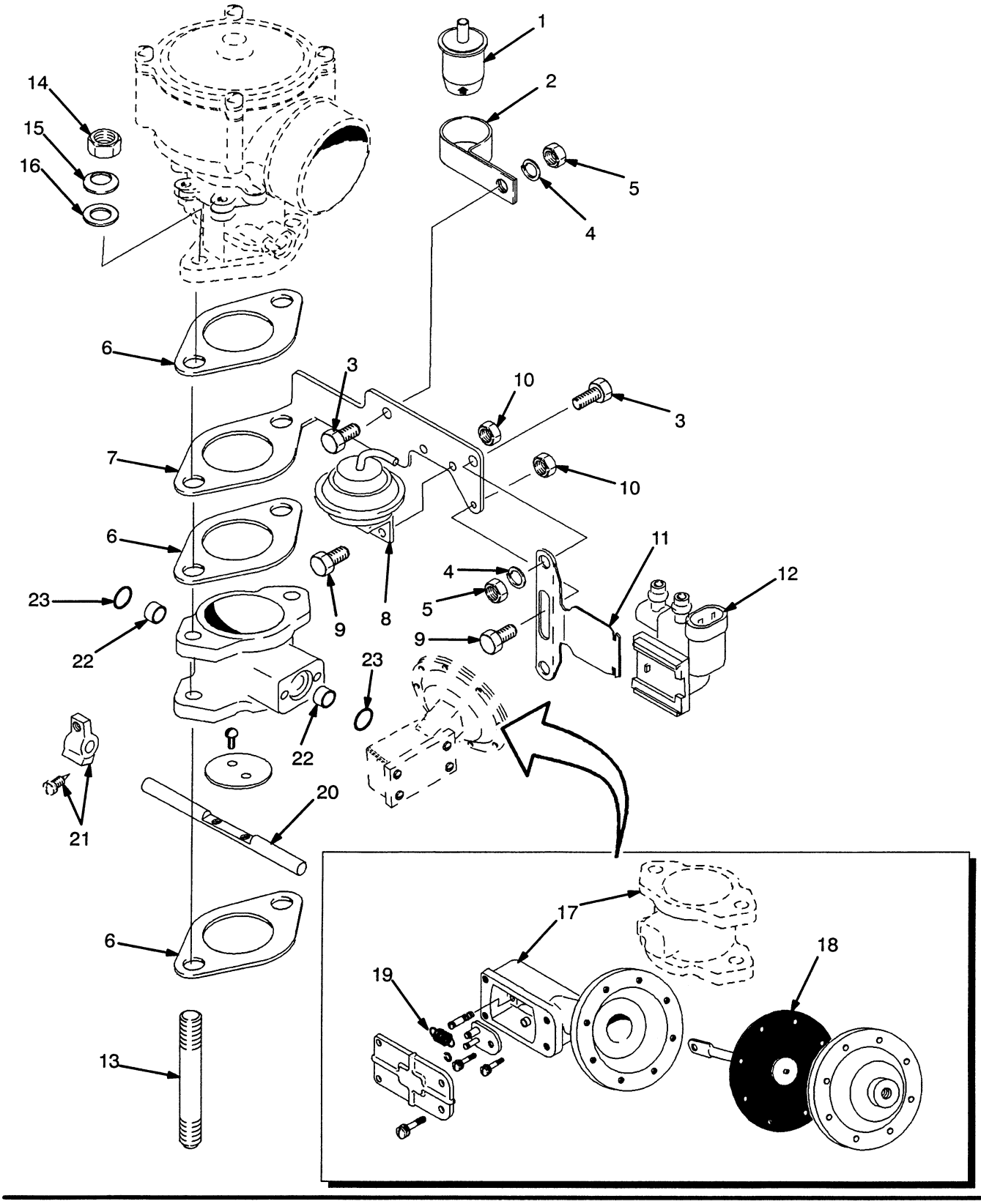
REF	PART NO.	NAME OF PART	QTY
1	1376792	Regulator Assembly	1
2	1376794	Bracket	1
3	287816	Capscrew	2
4	136687	Nut	2
5	292680	Washer	2
6	63108	Fitting	1
7	17217	Hose Nipple	1
8	168718	Clamp	1
9	1376795	Carburetor Assembly	1
9	.....	LPG Mixer	1
		☞ Figure 73	
10	316825	Nut	2
11	1378464	Bracket	1
12	1354203	Solenoid	1
12	1369456	Coil	1
12	1369457	Seal Kit	1
13	201797	Fitting	1
14	17176	Fitting	1
15	112989	Clamp	2
16	1384837	Hose	1
17	1378465	Hose	1
18	1378463	Adapter	1
19	239503	Nut	2
20	130845	Clamp	1
21	293743	Capscrew	2
22	136749	Capscrew	2
23	366473	Clamp	1
24	137852	Clamp	10
25	292681	Washer	2
26	112989	Clamp	1
27	1378636	Hose	1
28	1378625	Hose	1
29	17215	Fitting	1
30	63108	Fitting	1
31	168718	Clamp	1
32	193008	Hose	1
33	201797	Fitting	1
34	130845	Clamp	1
35	1378470	Hose	1
36	125305	Fitting	1
37	130845	Clamp	1
38	1376666	Hose	1
39	14358	Fitting	1
40	113011	Hose	1
41	366473	Clamp	1
42	175347	Fitting	1
43	16863	Fitting	1
44	864839	Lockoff Assembly	1
44	.....	Lock And Filter	1
		☞ Figure 94	
45	1358327	Plate	1

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GOVERNOR (Figure 72)

LPG 3.0L

LAST USED ON S/N D177B-39472



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GOVERNOR

LPG 3.0L

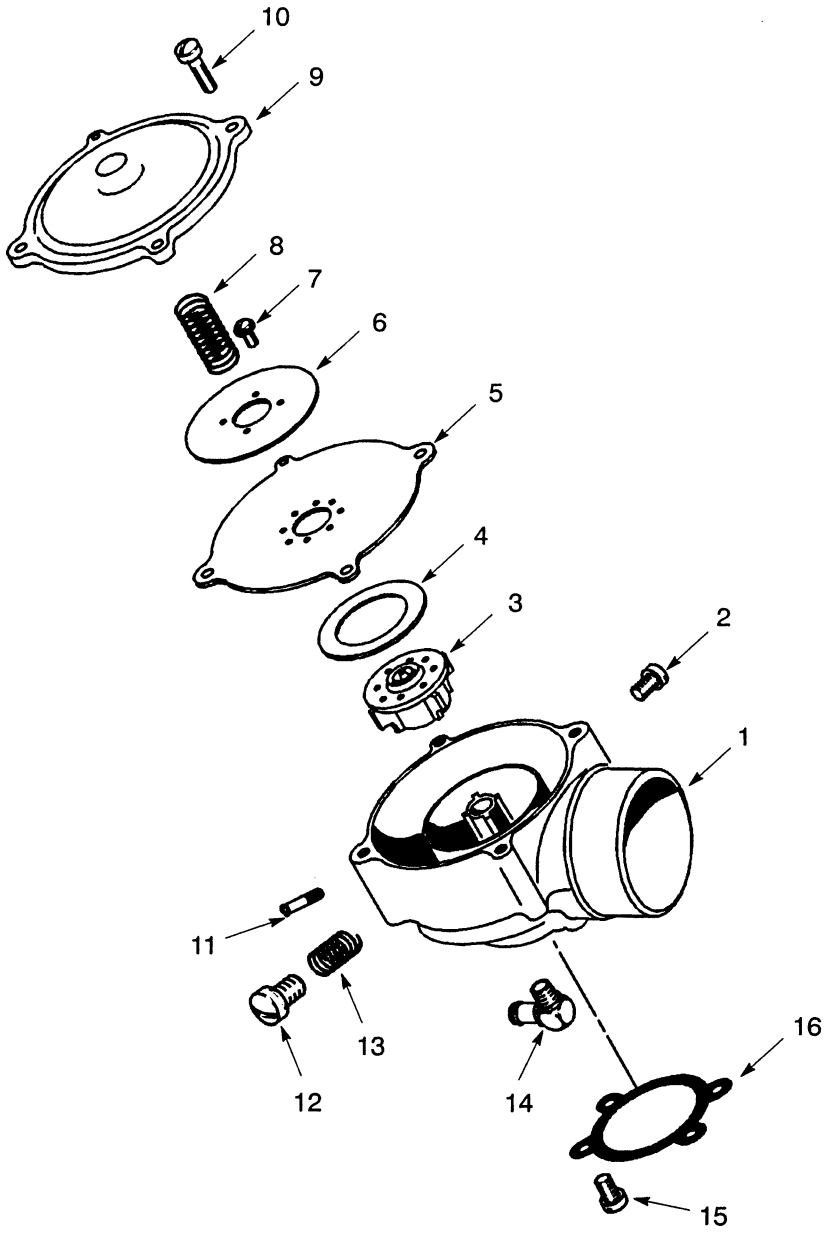
LAST USED ON S/N D177B-39472

REF	PART NO.	NAME OF PART	QTY
1	1334847	Filter	1
2	1334845	Clamp	1
3	292500	Capscrew	2
4	292680	Lockwasher	2
5	136687	Nut	2
6	195771	Gasket	3
7	1371599	Bracket	1
8	1346872	Actuator (Idle Control)	1
9	293743	Capscrew	3
10	316825	Nut	3
11	1345676	Bracket	1
12	1345677	Solenoid Valve	1
13	175323	Stud	2
14	15006	Nut	2
15	377259	Washer	2
16	15920	Washer	2
17	346329	Governor	1
18	1339102	Diaphragm Assembly	1
19	1333986	Spring	1
20	1333987	Throttle Shaft	1
21	374706	Lever Assembly	1
22	374708	Bearing	2
23	374709	Ring	2

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LPG MIXER (Figure 73)

DUAL FUEL 3.0L



REF	PART NO.	NAME OF PART	QTY
	1378647	Mixer Assembly	
1	250371	Body Assembly	1
2	326926	Screw	1
3	.....	Valve	1
4	204858	Ring	1
5	1369450	Diaphragm	1
6	.....	Plate	1
7	220283	Screw	1
8	374713	Spring	1

REF	PART NO.	NAME OF PART	QTY
9	204780	Cover	1
10	132473	Screw	4
11	323541	Fitting	1
12	326516	Screw	1
13	332277	Spring	1
14	1361164	Fitting	1
15	204790	Screw	4
16	204787	Gasket	1

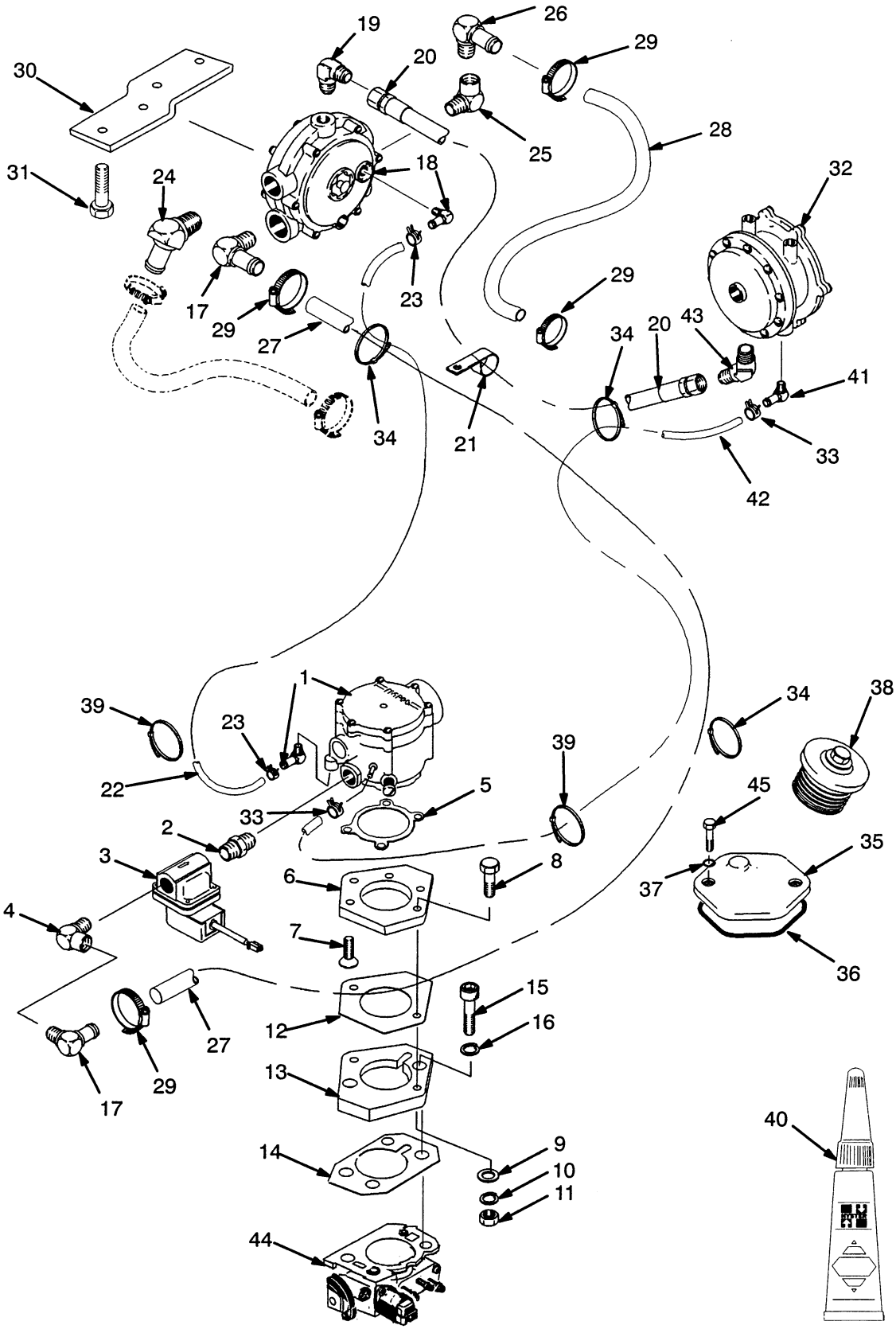
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NOTES

FUEL (Figure 74)

LPG FIELD CONVERSION 2.2L



FUEL

LPG FIELD CONVERSION 2.2L

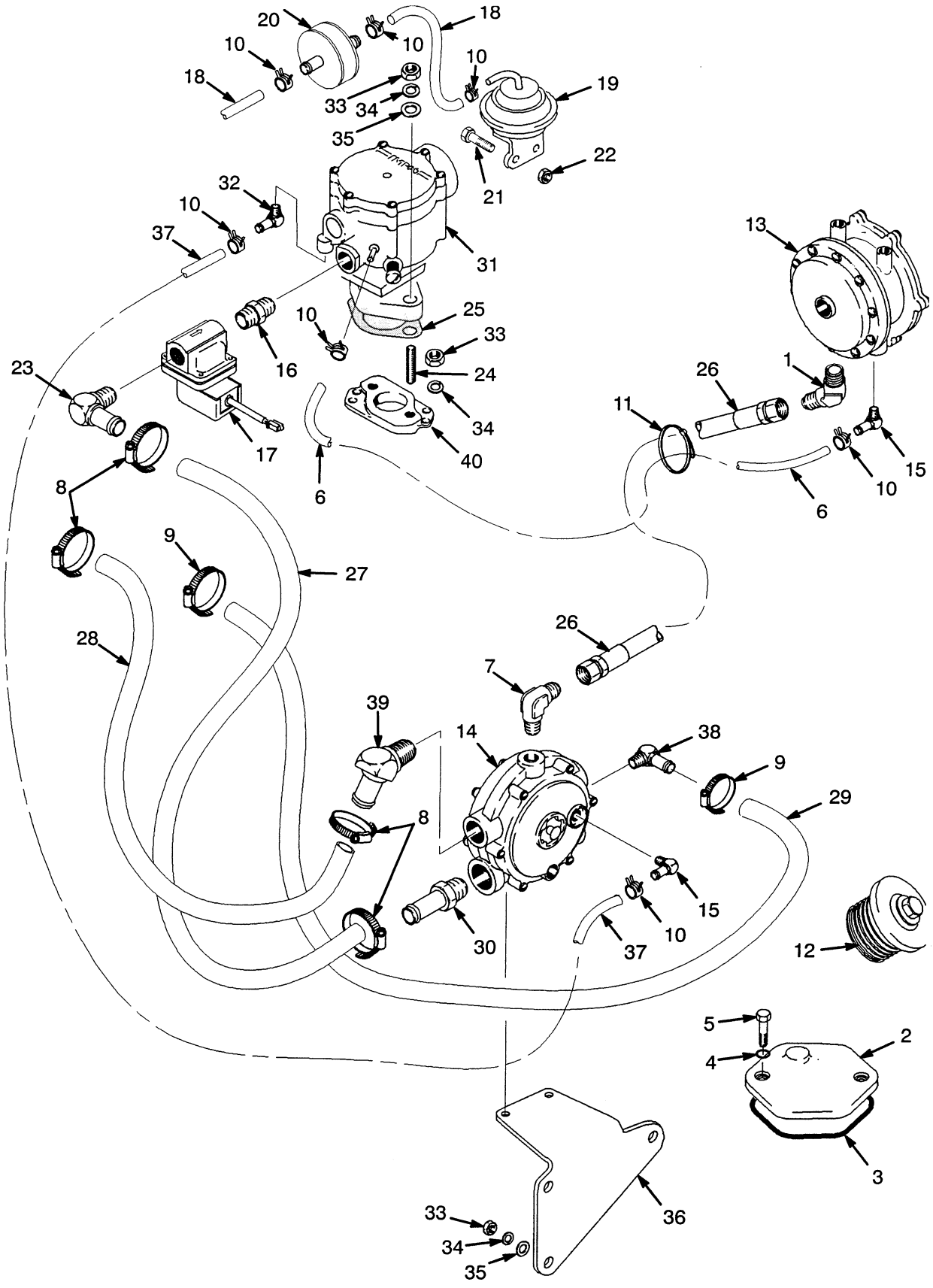
REF	PART NO.	NAME OF PART	QTY
1	1368054	Carburetor (LPG)	1
1	1361164	Fitting (LPG)	1
2	15351	Fitting	1
3	1354203	Solenoid Valve	1
3	1369456	Coil	1
3	1369457	Seal Kit	1
4	17324	Fitting	1
5	204787	Gasket	1
6	1367433	Plate	1
7	220714	Screw	4
8	16815	Capscrew	2
9	15134	Washer	2
10	15156	Lockwasher	2
11	15056	Nut	2
12	1367434	Gasket	1
13	1365894	Plate	1
14	1367435	Gasket	1
15	296021	Capscrew	2
16	293780	Lockwasher	2
17	201800	Fitting	2
18	.....	LPG Converter ☞ Figure 96,	1
19	14358	Fitting	1
20	1381921	Hose	1
21	1347202	Clamp	1
22	864814	Hose (Vacuum)	1
23	369815	Clamp	2
24	864816	Fitting	1
25	12947	Fitting	1
26	16155	Fitting	1
27	864815	Hose	1
28	864817	Hose	1
29	130845	Clamp	4
30	864818	Plate	1
31	287816	Capscrew	2
32	.....	Filter & Lock-Off Valve ☞ Figure 94	1
33	366473	Clamp	2
34	137852	Strap Clamp	5
35	1343414	Cover	1
36	1343449	Seal	1
37	353000	O-Ring	2
38	1352123	Cap	1
39	2004005	Strap Clamp	2
40	273338	Thread Sealant (50 cc)	AR
41	864810	Fitting	1
42	864811	Hose (Vacuum)	1
43	16863	Fitting	1
44	.....	Throttle Body ☞ Figure 85	1
45	329067	Screw	2

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FUEL (Figure 75)

LPG 2.0L



FUEL

LPG 2.0L

REF		PART NO.	NAME OF PART	QTY
1		16863	Fitting	1
2	a	1343414	Cover	1
2	b	1451568	Plate	1
2	b	288394	Sealant	AR
3	a	1343449	Seal	1
4	a	353000	O-Ring	2
5		329067	Screw	2
6		1347166	Hose	1
7		14358	Fitting	1
8		130845	Clamp	4
9		168718	Clamp	2
10		366473	Clamp	8
11		137852	Strap Clamp	6
12		1352123	Fuel Cap	1
13		.....	Fuel Lock & Filter ☞ Figure 94	1
14		.....	LPG Converter ☞ Figure 95, Figure 96	1
15		175347	Fitting	2
16		15351	Fitting	1
17		1354203	Solenoid Valve	1
17		1369456	Coil	1
17		1369457	Seal Kit	1
18		372002	Hose	2
19		1346872	Actuator	1
20		1350400	Valve	1
21		293743	Capscrew	2
22		316825	Nut	2
23		201800	Fitting	1
24		1359460	Stud	2
25		1354336	Gasket	1
26		113011	Hose	1
27	a	1361088	Hose	1
27	b	1336137	Hose	1
28		318375	Hose	1
29		85785	Hose	1
30		201797	Fitting	1
31		.....	Carburetor ☞ Figure 83	1
32		175347	Fitting	1
33		239503	Nut	7
34		292681	Lockwasher	7
35		296418	Washer	5
36		1356513	Bracket	1
37		377211	Hose	1
38		201808	Fitting	1
39		1336135	Fitting	1
40		1356514	Spacer	1

a Last Used On S/N D177B-83919

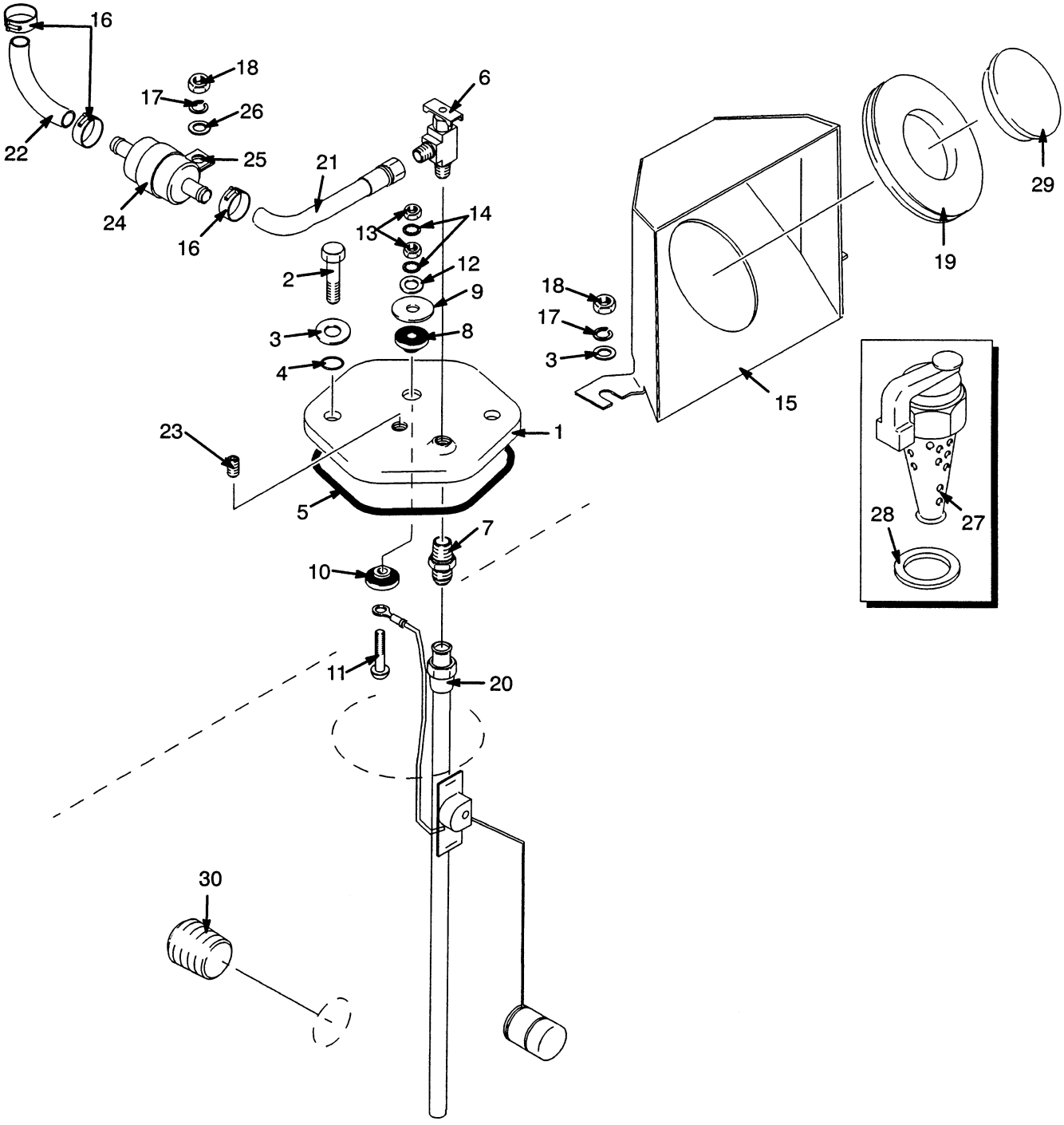
b First Used On S/N D177B-83920

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FUEL (Figure 76)

GASOLINE 2.0L



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FUEL

GASOLINE 2.0L

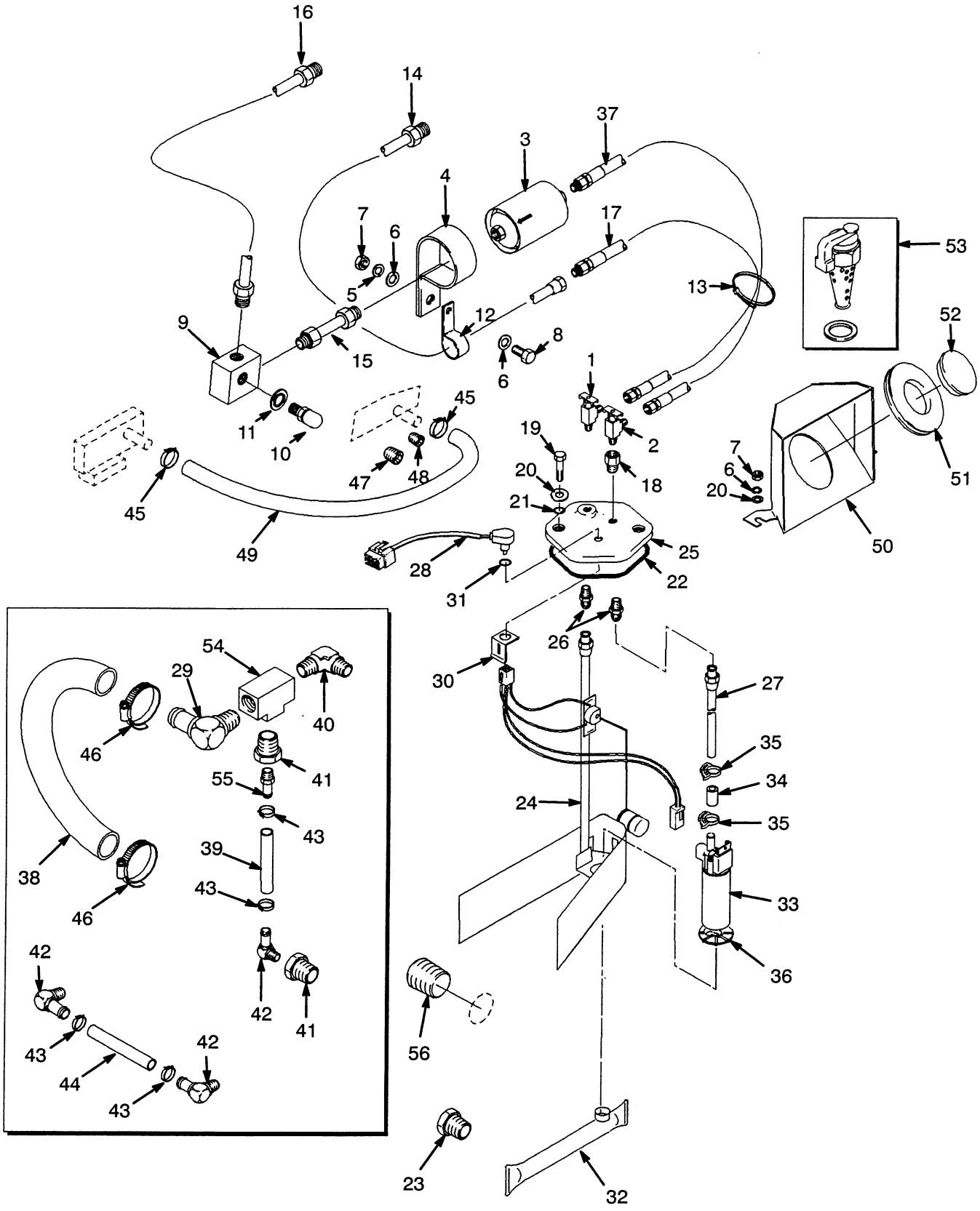
REF	PART NO.	NAME OF PART	QTY
1	1343448	Cover	1
2	329067	Screw	2
3	320157	Washer	4
4	353000	O-Ring	2
5	1343449	Seal	1
6	1350286	Valve	1
7	14303	Fitting	1
8	1350291	Washer	1
9	1350290	Washer	1
10	1351000	Washer	1
11	1356459	Screw	1
12	197067	Washer	1
13	1350298	Nut	2
14	1350299	Lockwasher	2
15	1343550	Shield	1
16	168718	Clamp	4
17	292681	Lockwasher	3
18	239503	Nut	3
19	1339720	Grommet	1
20	1347153	Fuel Sender	1
21	1351089	Hose	1
22	1389365	Hose	1
23	15483	Fitting	1
24	1304950	Filter	1
25	1316496	Clamp	1
26	320158	Washer	1
27 [a]	63899	Safety Cap	1
28 [a]	138880	Shim	AR
29	160773	Fuel Cap	1
30	15964	Fitting	1

[a] Optional

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FUEL (Figure 77)

GASOLINE 2.2L



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FUEL

GASOLINE 2.2L

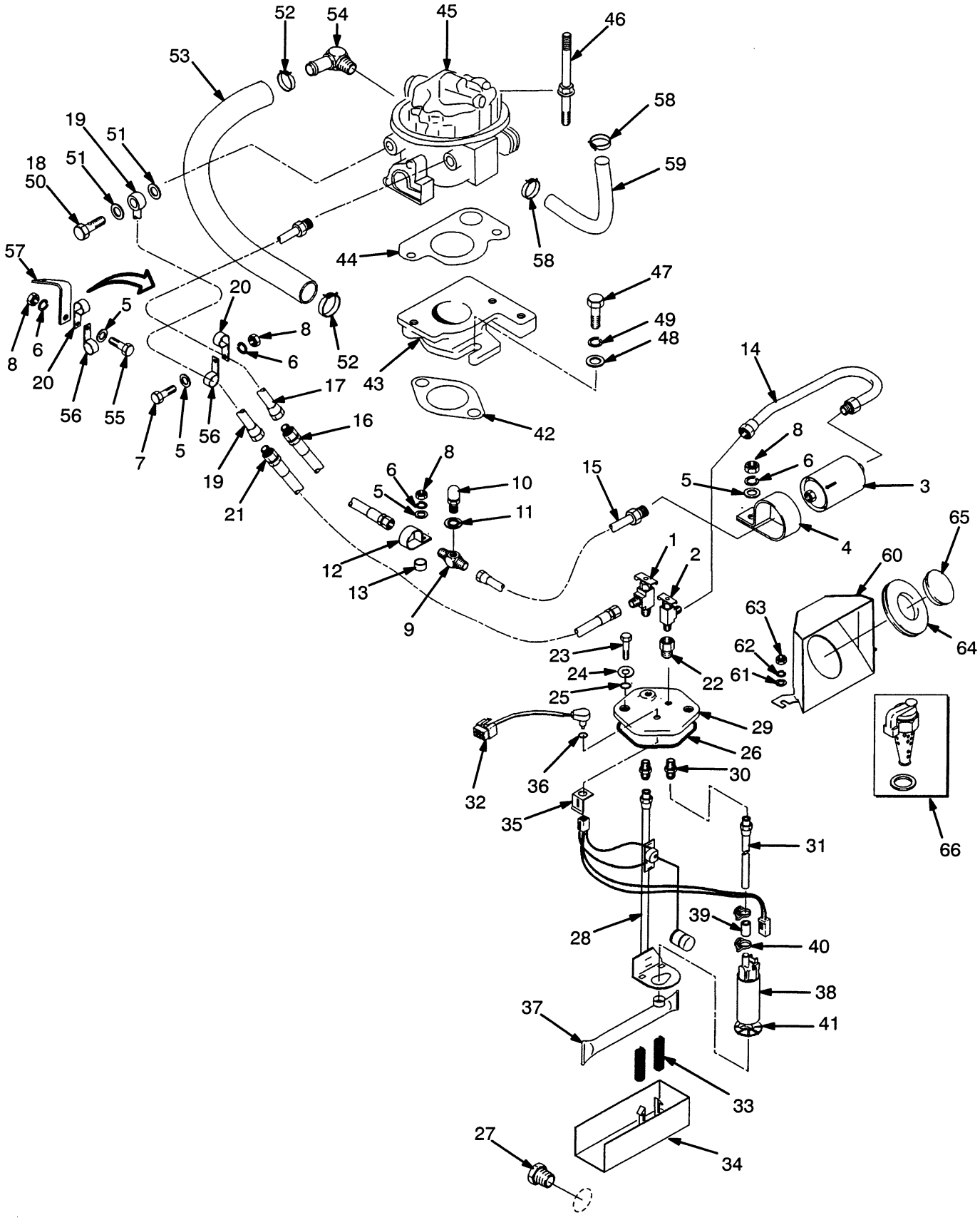
REF	PART NO.	NAME OF PART	QTY
1	1350286	Valve	1
2	16192	Valve	1
3	1330342	Gasoline Filter	1
4	176451	Clamp	1
5	320158	Washer	1
6	292681	Lockwasher	4
7	239503	Nut	3
8	136681	Capscrew	1
9	1339425	Fitting	1
10	1345991	Pressure Valve	1
11	1339438	Seal	1
12	198675	Clamp	1
13	129563	Clamp	1
14	1352098	Tube	1
15	1352099	Tube	1
16	1352100	Tube	1
17	1352101	Hose	1
18	1354259	Fitting	1
19	329067	Screw	2
20	320157	Washer	4
21	353000	O-Ring	2
22	1343449	Seal	1
23	17636	Fitting	1
24	1339789	Fuel Sender	1
25	1343448	Cover	1
26	14303	Fitting	2
27	1339759	Tube	1
28	1330383	Wire Harness	1
29	201800	Fitting	1
30	1330326	Clipnut	1
31	1330325	O-Ring	1
32	1327961	Strainer	1
33 a	.....	Pump	1
34 a	.....	Coupling	1
35 a	.....	Clamp	2
36 a	.....	Isolator	1
37	1352144	Hose	1
38	129995	Hose	1
39	217407	Hose	1
40	1356369	Fitting	1
41	12844	Fitting	2
42	17343	Fitting	1
43	366473	Clamp	4
44	1354356	Hose	1
45	1333840	Clamp	2
46	166857	Clamp	2
47	1333825	Plug	1
48	1354265	Plug	1
49	1354114	Hose	1
50	1343550	Shield	1
51	1339720	Grommet	1
52	160773	Fuel Cap	1
53 b	138880	Shim	AR
53 b	63899	Safety Cap	1
54	12840	Fitting	1
55	16746	Fitting	1
56	15964	Fitting	1

a Included In Fuel Pump Kit 1330324
b Optional

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FUEL (Figure 78)

GASOLINE 3.0L



FUEL

GASOLINE 3.0L

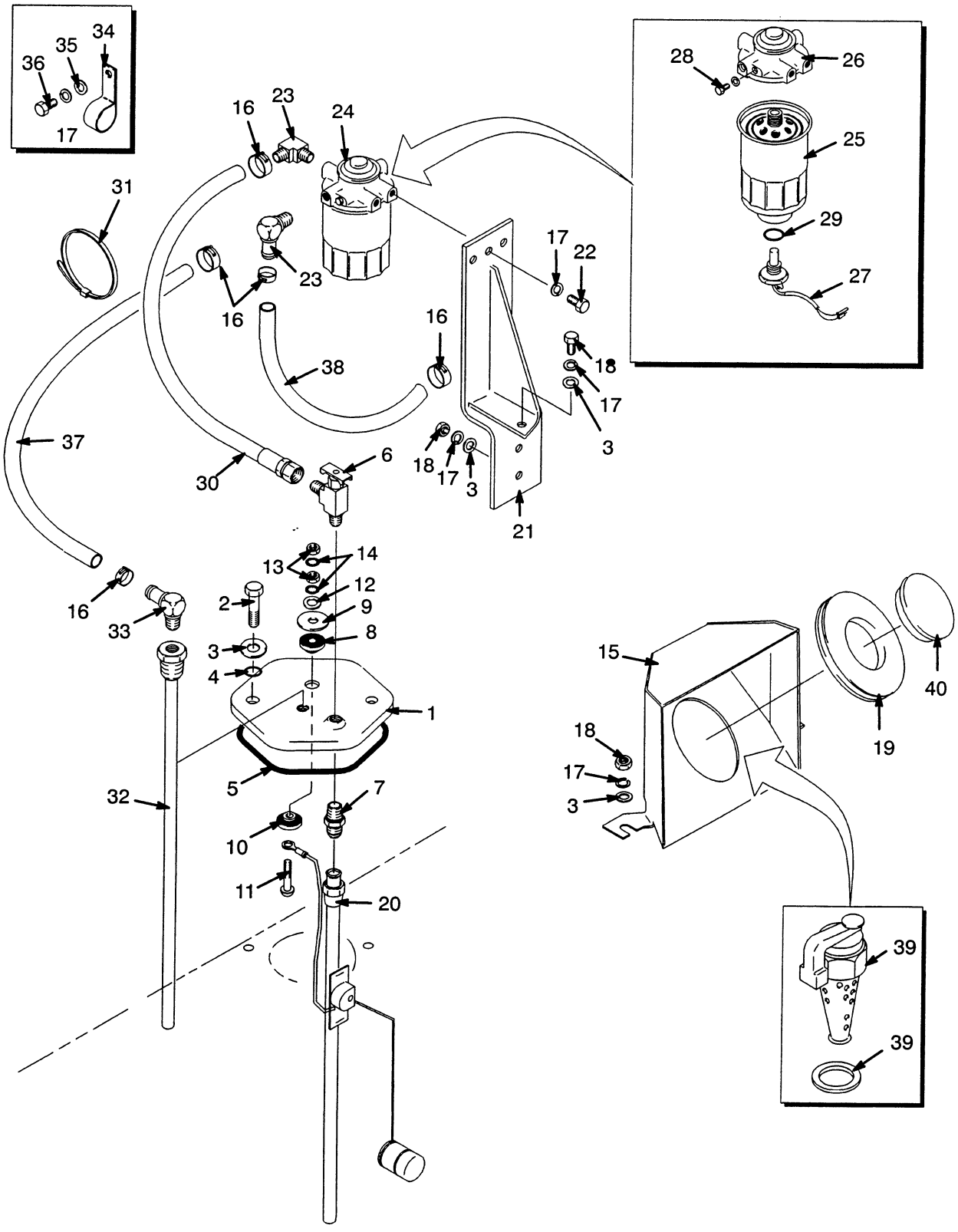
REF		PART NO.	NAME OF PART	QTY
1		1350286	Valve	1
2		16192	Valve	1
3		1330342	Filter	1
4		176451	Clamp	1
5		320158	Washer	4
6		292681	Lockwasher	4
7		136681	Capscrew	1
8		239503	Nut	4
9		1376725	Fitting	1
10		1345991	Pressure Valve	1
11		1339438	Seal	1
12		89220	Clamp	1
13		1301016	Spacer	1
14		1376769	Tube Assembly	1
15		1376770	Tube Assembly	1
16		1376771	Hose	1
17		1376731	Tube Assembly	1
18		360387	Adhesive	AR
19		1376730	Tube Assembly	1
20		164488	Clamp	2
21		1376777	Hose (Return)	1
22		1354259	Fitting	1
23		329067	Screw	2
24		320157	Washer	2
25		353000	O-Ring	2
26		1343449	Seal	1
27		15964	Fitting	1
28		1339789	Fuel Sender	1
29		1343448	Cover	1
30		14303	Fitting	2
31		1339759	Tube Assembly	1
32		1330383	Wire Harness	1
33		1361596	Spring	2
34		1363862	Baffle	1
35		1330326	Clip	1
36		1330325	O-Ring	1
37		1327961	Strainer	1
38	a	.....	Pump	1
39	a	.....	Coupling	1
40	a	.....	Clamp	2
41	a	.....	Isolator	1
42		195771	Gasket	1
43		1375779	Adapter	1
44		1343648	Gasket	1
45		1376572	Throttle Body Injection	1
45		1383994	Gasket Kit	1
45		1350988	Fuel Injector Kit	1
45		1383995	Throttle Position Sensor Kit	1
45		1383996	Idle Air Valve Kit	1
45		1350991	Fuel Inlet/Outlet Nut Kit	1
45		1358682	Screw Package	1
46		1377021	Stud	2
47		16805	Capscrew	2
48		15134	Washer	2
49		15156	Lockwasher	2
50		1376614	Screw	1
51		1376616	Seal	2
52		353198	Clamp	2
53		85766	Hose	1
54		201808	Fitting	1
55		136749	Capscrew	1
56		1376727	Clamp	2
57		1376779	Bracket	1
58		369815	Clamp	2
59		1350682	Hose (Silicone)	1
60		1343550	Shield	1
61		320157	Washer	2
62		292681	Lockwasher	2
63		239503	Nut	2
64		1339720	Grommet	1
65		160773	Cap	1
66	b	63899	Cap	1
66	b	138880	Shim	1

a Included In Fuel Pump Kit 1330324
b Optional

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FUEL (Figure 79)

DIESEL 2.4L



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FUEL

DIESEL 2.4L

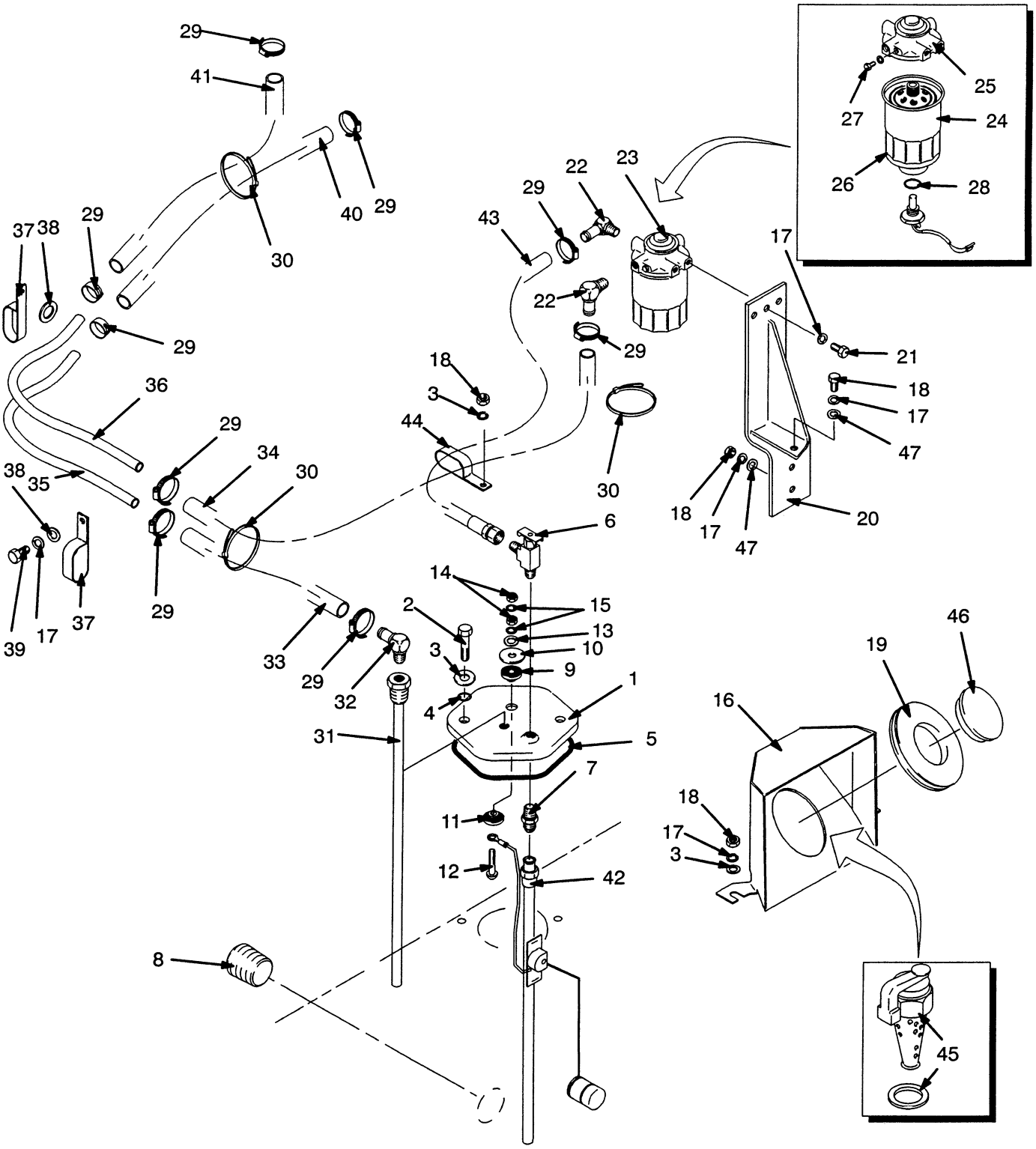
REF	PART NO.	NAME OF PART	QTY
1	1343448	Cover	1
2	329067	Screw	2
3	320157	Washer	7
4	353000	O-Ring	2
5	1343449	Seal	1
6	1350286	Valve	1
7	14303	Fitting	1
8	1350291	Washer	1
9	1350290	Washer	1
10	1351000	Washer	1
11	1356459	Screw	1
12	197067	Washer	1
13	1350298	Nut	2
14	1350299	Lockwasher	2
15	1343550	Shield	1
16	168718	Clamp	5
17	292681	Lockwasher	8
18	239503	Nut	5
19	1339720	Grommet	1
20	1347153	Fuel Sender	1
21	1350226	Bracket	1
22	136681	Capscrew	2
23	222480	Fitting	2
24	1327898	Fuel Filter	1
25	1334350	Cartridge Kit	1
25 b	1330033	Cartridge	1
25 b	1334352	Label	1
26	1374930	Housing	1
27	1330035	Sensor	1
28	1330036	Plug	1
29 b	1330037	Gasket	1
30	1351011	Hose	1
31	137852	Clamp	2
32	1350292	Pipe	1
33	17343	Fitting	1
34	1374611	Clamp	2
35	296418	Washer	2
36	296418	Screw	2
37	1320922	Hose	1
38	1301601	Hose	1
39 a	63899	Safety Cap	1
39 a	138880	Shim	AR
40	157704	Cap	1

a Optional
b Included In Repair Kit 996423

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FUEL (Figure 80)

DIESEL 3.1L



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FUEL

DIESEL 3.1L

REF		PART NO.	NAME OF PART	QTY
1		1343448	Cover	1
2		329067	Screw	2
3		320157	Washer	7
4		353000	O-Ring	2
5		1343449	Seal	1
6		1350286	Valve	1
7		14303	Fitting	1
8		15964	Fitting	1
9		1350291	Washer	1
10		1350290	Washer	1
11		1351000	Washer	1
12		1356459	Screw	1
13		197067	Washer	1
14		1350298	Nut	2
15		1350299	Lockwasher	2
16		1343550	Splash Shield	1
17		292681	Lockwasher	8
18		239503	Nut	5
19		1339720	Grommet	1
20		1350226	Bracket	1
21		136681	Capscrew	2
22		222480	Fitting	2
23		1327898	Fuel Filter	1
24		1334350	Cartridge Kit	1
24	b	1330033	Cartridge	1
24	b	1334352	Label	1
25		1374930	Housing	1
26		1330035	Sensor	1
27		1330036	Plug	1
28	b	1330037	Gasket	1
29		168718	Clamp	9
30		137852	Strap Clamp	3
31		1350292	Pipe	1
32		17343	Fitting	1
33		1303195	Hose	1
34		392800	Hose	1
35		1373822	Fuel Line	1
36		1373823	Fuel Line	1
37		1374611	Clamp	2
38		296418	Washer	2
39		287851	Capscrew	1
40		1374615	Hose	1
41		1301601	Hose	1
42		1347153	Fuel Sender	1
43		1359437	Hose	1
44		119074	Clamp	1
45	a	63899	Safety Cap	1
45	a	138880	Shim	AR
46		157704	Cap	1
47		320158	Washer	2

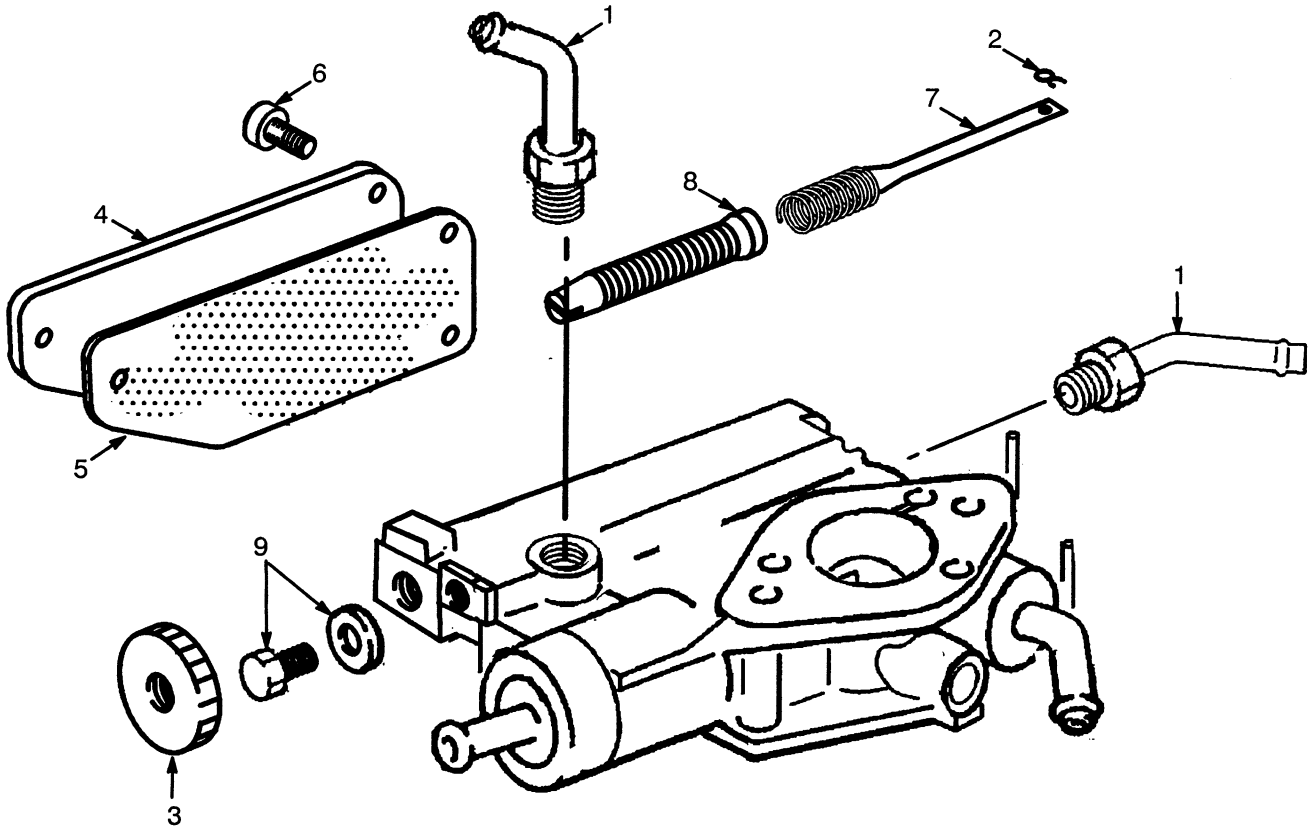
a Optional

b Included In Repair Kit 996423

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GOVERNOR (Figure 81)

GASOLINE AND LPG 2.0L



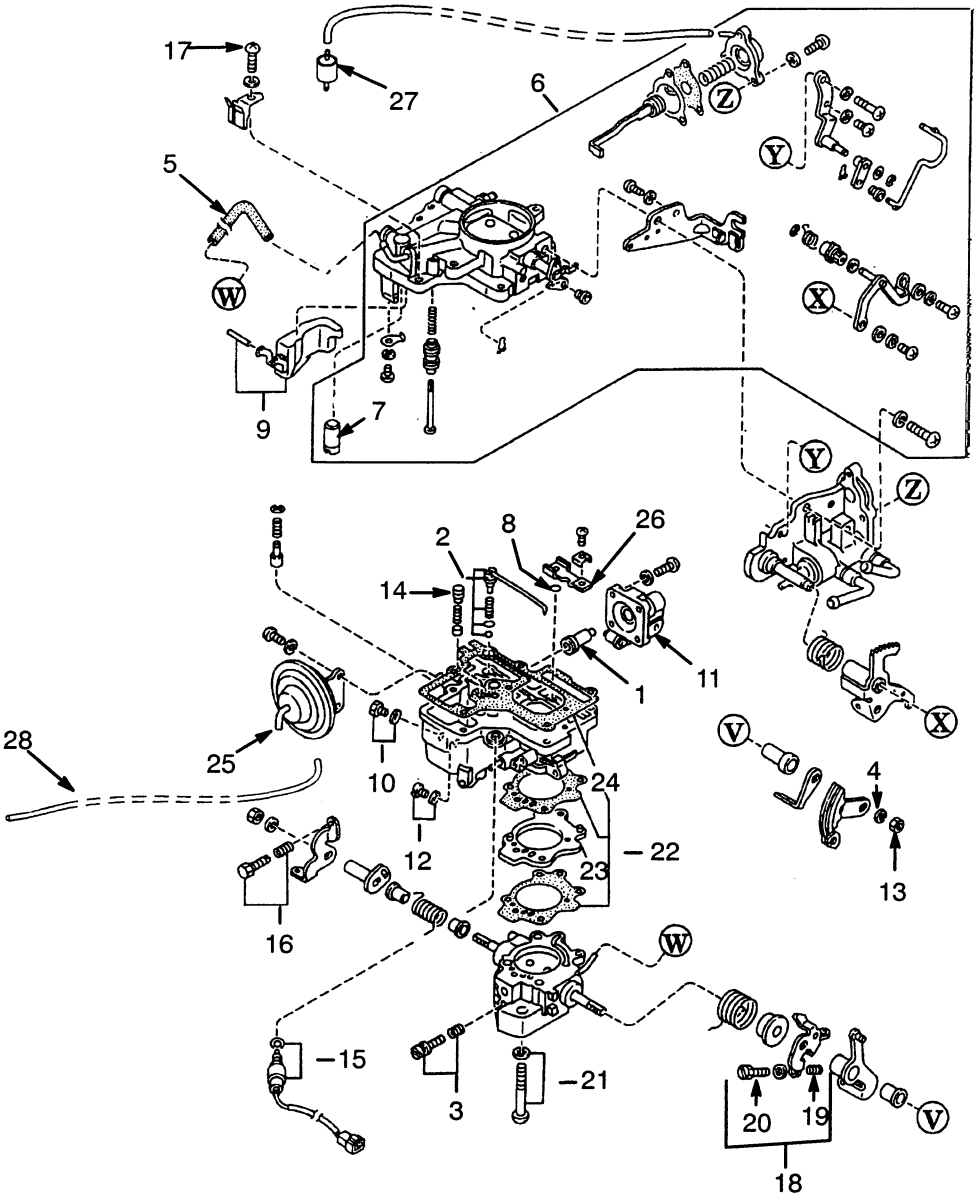
REF	PART NO.	NAME OF PART	QTY
	1361751	Governor	1
1	1367517	Connector	2
2	1367519	Snap Ring	1
3	1367520	Bushing	1
4	1367522	Cover	1
5	1367523	Gasket	1
6	1367524	Screw	3
7	1367525	Spring	1
8	1367526	Screw	1
9	1367527	Bolt	1

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CARBURETOR (Figure 82)

GASOLINE 2.0L



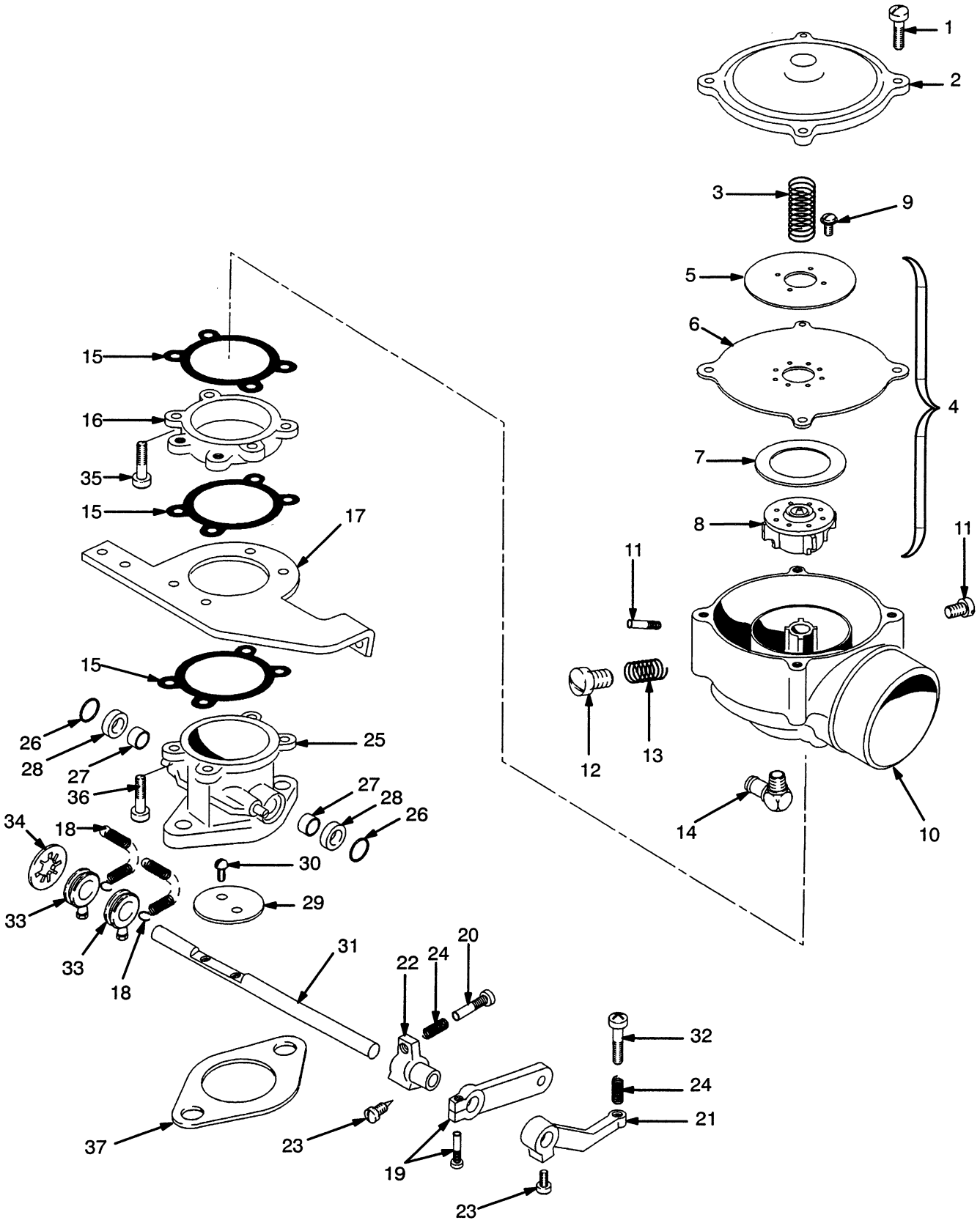
REF	PART NO.	NAME OF PART	QTY
	1460225	Carburetor	1
1	1361768	Plunger Set	1
2	1361769	Nozzle Set	1
3	1361770	Screw Set	1
4	1361772	Washer	2
5	1361773	Vacuum Hose	1
6	1361774	Air Horn	1
7	1361771	Power Jet	1
8	1361775	O-Ring	1
9	1361776	Float	1
10	1361777	Drain Plug	1
11	1382673	Pump Arm	1
12	1361779	Main Jet	1
13	1361780	Nut	2
14	1361781	Slow Jet	1
15	1361782	Solenoid Valve	1
16	1361783	Idle Screw	1
17	1361784	Screw & Washer	1
18	1361785	Throttle Adjustment Screw	1
19	2037064	Screw	1
20	2037065	Screw	1
21	1361786	Screw Set	1
22	1361787	Gasket Set	1
23	2037066	Gasket	1
24	2037067	Insulator	1
25	1361788	Vacuum Diaphragm	1
26	1361789	Idle Compensator	1
27	1390858	Cushion Jet	1
28	.....	Tube (Vacuum)	1

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CARBURETOR (Figure 83)

LPG 2.0L



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CARBURETOR

LPG 2.0L

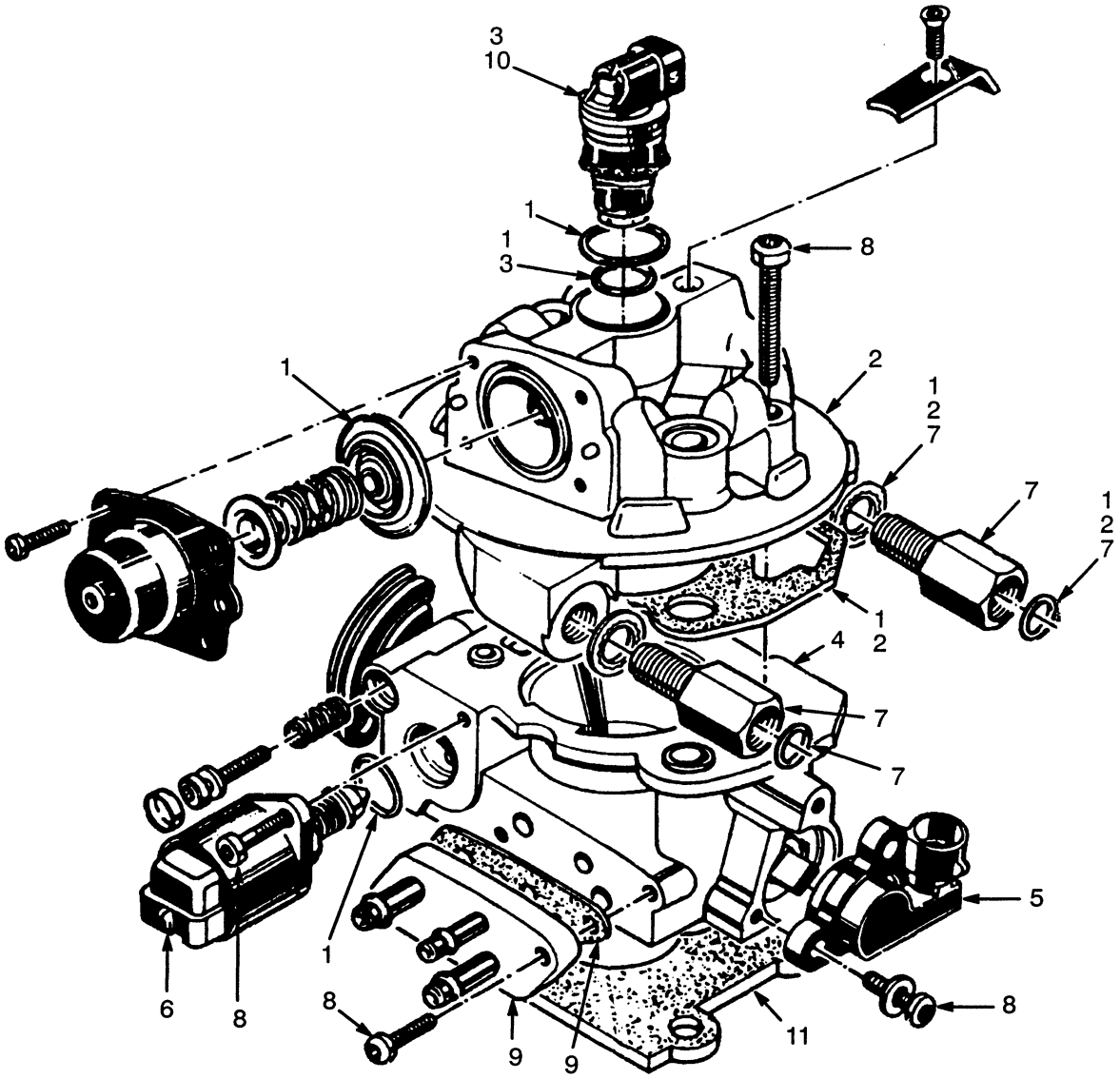
KEY:
A: Last Used On S/N D177B-15620
B: First Used On S/N D177B-15621
C: 3-Way Type Carburetor

REF	PART NO.	NAME OF PART	QTY A	QTY B	QTY C
	1356523	Carburetor	1	..	..
	1376621	Carburetor	..	1	..
	1377689	Carburetor	..	..	1
1	132473	Screw	4	4	4
2	204780	Cover	1	1	1
3	374713	Spring	1	1	1
4	1453779	Valve & Diaphragm Kit	1	1	..
4	1382974	Valve & Diaphragm Kit	..	..	1
5	.....	Back-Up Plate	1	1	..
6	1369038	Diaphragm	1	1	..
7	204858	Ring	1	1	..
8	.....	Valve	1	1	..
9	220283	Screw	4	4	..
10	250371	Air Horn	1	1	..
10	1383600	Air Horn	..	..	1
11	326926	Screw	1	1	..
12	326516	Idle Screw	1	1	..
12	1383601	Idle Screw	..	..	1
13	332277	Spring	1	1	..
13	1383602	Nut	..	..	1
14	1361164	Fitting	1	1	..
14	323541	Fitting	..	..	2
15	204787	Gasket	3	3	3
16	303072	Spacer	1	1	1
17	1358239	Bracket	1	1	1
18	1358245	Spring	2	2	2
19	1358238	Lever	1	..	..
19	1375905	Lever	..	1	..
19	.....	Lever	..	..	1
20	1358244	Screw	1	..	..
20	16751	Screw	..	1	1
21	1358241	Floating Lever	1	1	1
22	1358242	Stop Lever	1	1	1
23	1358243	Screw	4	4	2
24	204824	Spring	2	2	2
25	1358240	Throttle Body	1	1	1
26	204797	Retainer	2	2	2
27	204796	Seal	2	..	..
27	1382059	Seal	..	2	2
28	214121	Bearing	2	2	2
29	241074	Fly	1	1	1
30	12490	Screw	2	2	2
31	.....	Shaft	1	1	1
32	1374057	Screw	1	1	..
32	1358244	Screw	..	..	1
33	387478	Bushing	1	2	..
34	387480	Retainer	1	1	..
35	387481	Screw	4	4	4
36	204790	Screw	4	4	4
37	195771	Mounting Gasket	1	1	1

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THROTTLE BODY INJECTION (Figure 84)

GASOLINE 2.2L



REF	PART NO.	NAME OF PART	QTY
	1343643	Throttle Body Injection	1
1	1350986	Throttle Body Injection Kit	1
2	1350987	Fuel Meter Kit	1
3	1350988	Fuel Injector Kit	1
4	1350989	Throttle Body Kit	1
5	1337978	Throttle Position Sensor Kit	1
6	1350990	Idle Air Control Kit	1
7	1350991	Fuel Inlet & Outlet Nut Kit	1

REF		PART NO.	NAME OF PART	QTY
8		1358682	Screw Package	1
9		1358683	Tube Module Package	1
10		1358684	Throttle Body Replacement Kit	1
11	a	1360748	Gasket	1
11	b	1377022	Gasket	1

a Engine 1335942
b Engine 1375902

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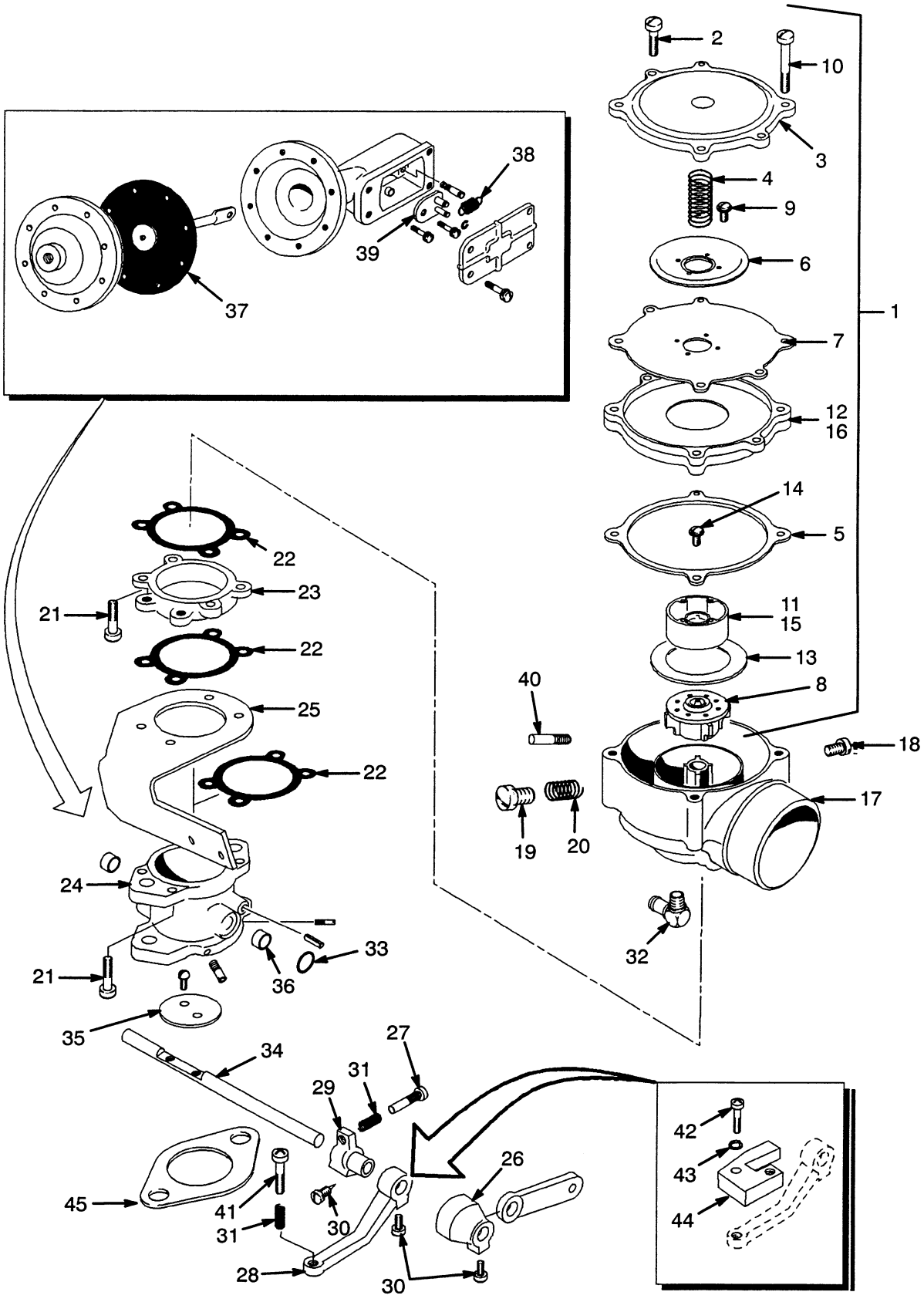
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NOTES

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CARBURETOR (Figure 85)

LPG 2.2L



CARBURETOR

LPG 2.2L

KEY:
A: Standard
B: High Altitude Performance

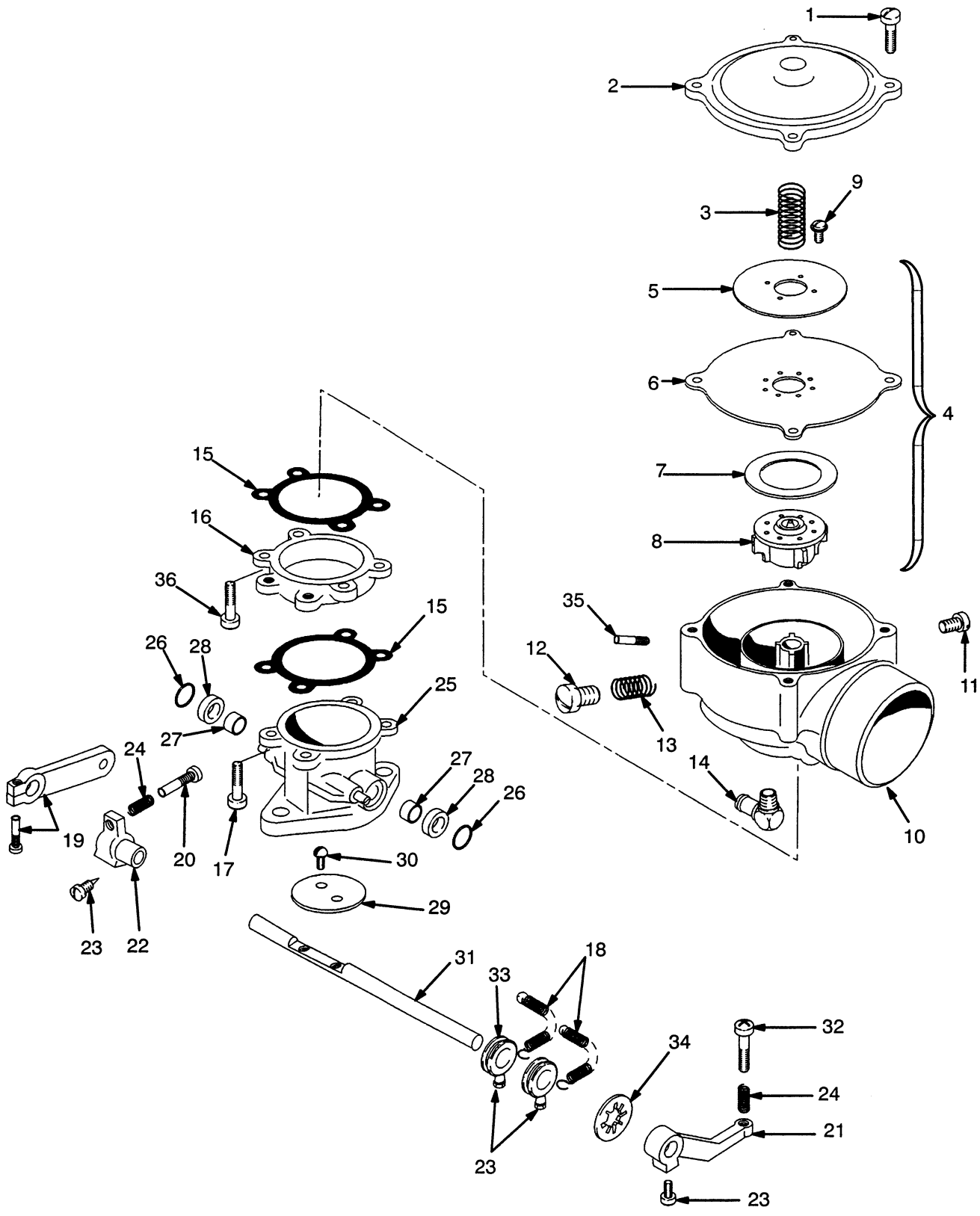
REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	1354096	Carburetor	1	..
	b	1368981	Carburetor		1
1	b	1374056	Mixer Assembly	1	..
2		132473	Screw	2	2
3		.....	Cover	1	1
4		204781	Spring	1	1
5		1358233	Gasket	1	1
6		1358235	Back-Up Plate	1	1
7		1358231	Diaphragm	1	1
8		1369049	Valve	1	..
8		.....	Valve	..	1
9		12490	Screw	4	4
10		1358236	Screw	4	4
11		1358237	Spacer	1	..
12		1358234	Plate	1	..
13		204858	Ring	1	1
13		1369048	Ring	3	3
14		220283	Screw	4	4
15		.....	Spacer	..	1
16		.....	Plate	..	1
17		250371	Air Horn	1	1
18		326926	Screw	1	1
19		326516	Screw (Idle)	1	1
20		332277	Spring	1	1
21		204790	Screw	8	8
22		204787	Gasket	3	3
23		303072	Spacer	1	1
24		1358228	Governor	1	1
25		.....	Bracket	1	1
26		1342997	Clamp (Lever)	1	1
27		1358244	Screw	1	1
28		1358241	Floating Lever	1	1
29		1358242	Stop Lever	1	1
30		1358243	Screw	3	3
31		204824	Spring	2	2
32		1361164	Fitting	1	1
33		374709	Ring	1	1
34		.....	Shaft	1	1
35		.....	Fly	1	1
36		374708	Bearing	2	2
37		1339102	Diaphragm	1	1
38		1370941	Spring	1	1
39		.....	Lever	1	1
40		323541	Fitting	1	1
41		1374057	Screw	1	1
42		16703	Screw	..	1
43		15152	Lockwasher	..	1
44		1376607	Spacer	..	1
45		195771	Mounting Gasket	1	1

a Last Used On S/N D177B-6314
b First Used On S/N D177B-6315

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CARBURETOR (Figure 86)

LPG 3.0L



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CARBURETOR

LPG 3.0L

REF		PART NO.	NAME OF PART	QTY
	a	1371592	Carburetor	1
	b	1389498	Carburetor	1
1		132473	Screw	4
2		204780	Cover	1
3		374713	Spring	1
4	a	1385712	Air-Gas Valve Assembly	1
4	b	1452798	Air-Gas Valve Assembly	1
5		.....	Back-Up Plate	1
6		1369450	Diaphragm	1
7		204858	Ring	1
8		.....	Valve	1
9		220283	Screw	4
10		250371	Air Horn	1
11		326926	Screw	1
12		326516	Idle Screw	1
13		332277	Spring	1
14		1361164	Fitting	1
15		204787	Gasket	2
16		303072	Spacer	1
17		387481	Screw	4
18		1358245	Spring	2
19		1380268	Throttle Assembly	1
20		16751	Screw	1
21		1358241	Floating Lever	1
22		1358242	Stop Lever	1
23		1358243	Screw	4
24		204824	Spring	2
25	a	1385719	Throttle Body	1
25	b	1455262	Throttle Body	1
26	a	204797	Retainer	2
27	a	1382059	Seal	2
28	a	214121	Bearing	2
29	a	241074	Fly	1
30	a	12490	Screw	2
31	a	.....	Shaft	1
32		1374057	Screw	1
33		387478	Bushing	2
34		387480	Retainer	1
35		323541	Fitting	1
36		204790	Screw	4

a Last Used On S/N D177B-39471
b First Used On S/N D177B-39472

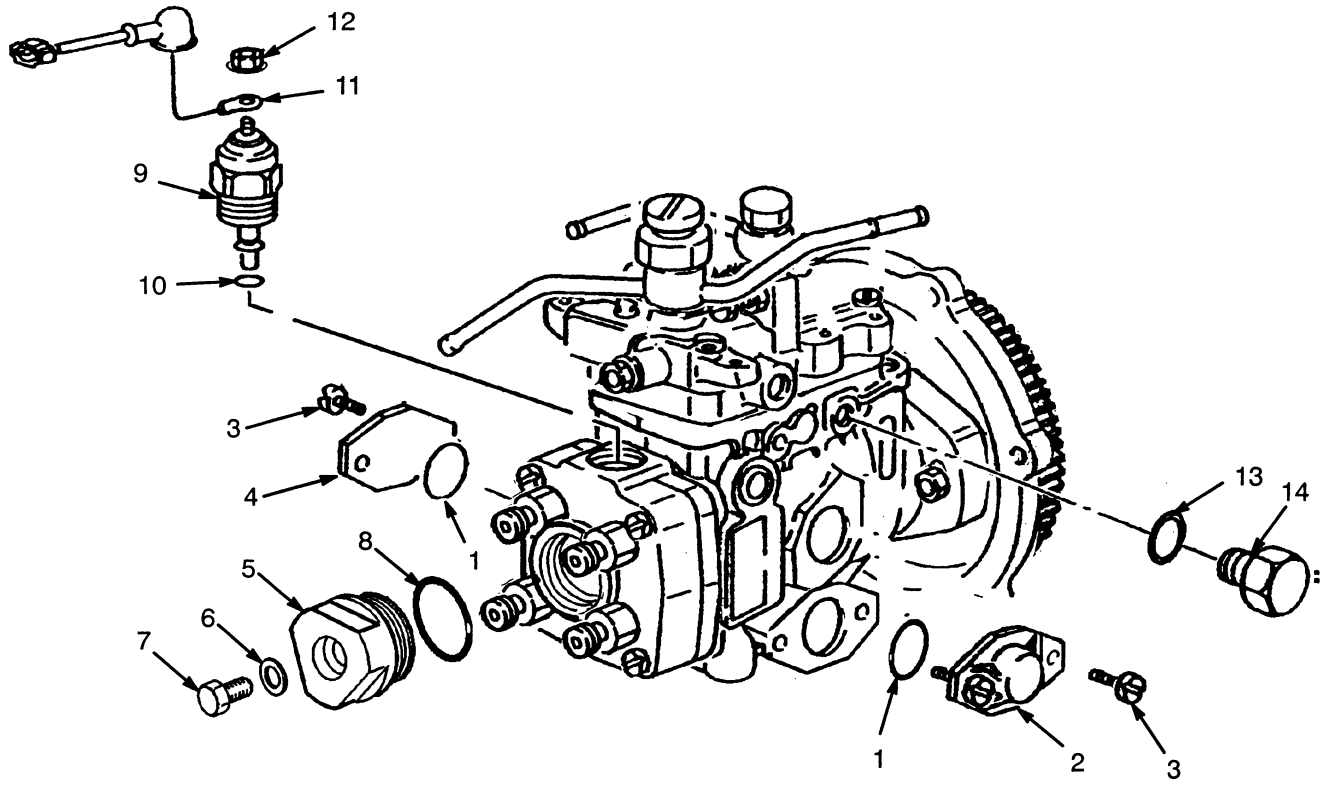
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NOTES

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INJECTION PUMP (Figure 87)

DIESEL 2.4L, 2.8L, AND 3.1L



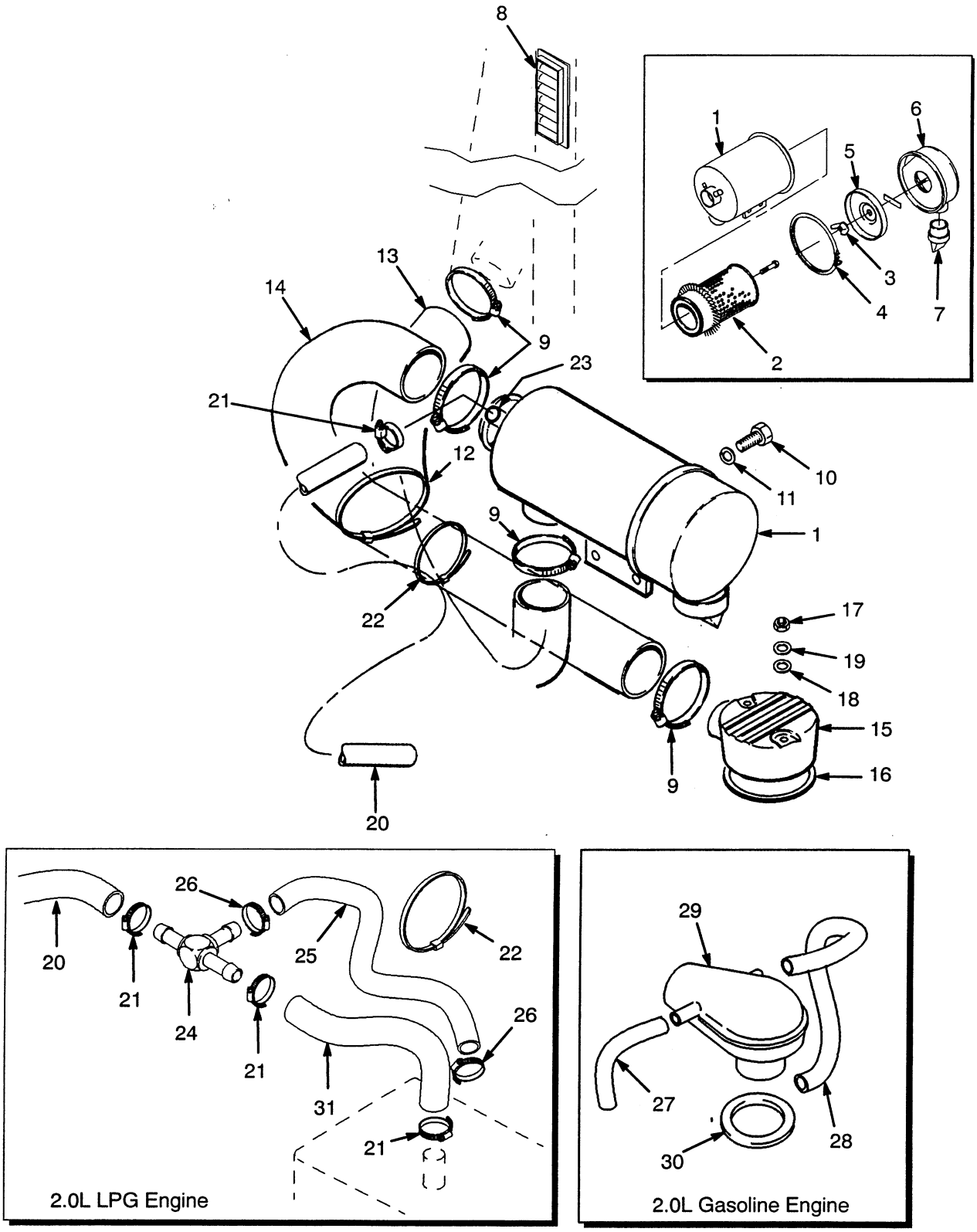
KEY:
A: Last Used On S/N D177B-8291
B: First Used On S/N D177B-8292
C: Used On Engine 1335948

REF	PART NO.	NAME OF PART	QTY A	QTY B	QTY C
	1342752	Injection Pump (2.8L)	1	..	..
	1374967	Injection Pump (3.1L)	..	1	..
	1357184	Injection Pump (2.4L)	..	..	1
1	1334026	O-Ring	2	2	2
2	1334027	Cover	1	1	1
3	1334028	Bolt	4	4	4
4	1334029	Cover	1	1	1
5	1342786	Plug	1	..	..
5	1334199	Plug	..	1	1
6	1334142	Gasket	1	1	1
7	1342787	Bolt	1	..	..
7	1334200	Bolt	..	1	1
8	1334201	O-Ring	1	1	1
9	1334212	Solenoid (Fuel Shut-Off)	1	1	1
10	1334213	O-Ring	1	1	1
11	1334214	Wire	1	1	1
12	1334215	Nut	1	1	1
13	1334232	O-Ring	1	1	1
14	1342819	Plug	1	1	..
14	1334231	Plug	..	..	1

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AIR FILTER (Figure 88)

GASOLINE AND LPG 2.0L AND 2.2L



AIR FILTER

GASOLINE AND LPG 2.0L AND 2.2L

KEY:
A: 2.2L Engine
B: 2.0L Engine

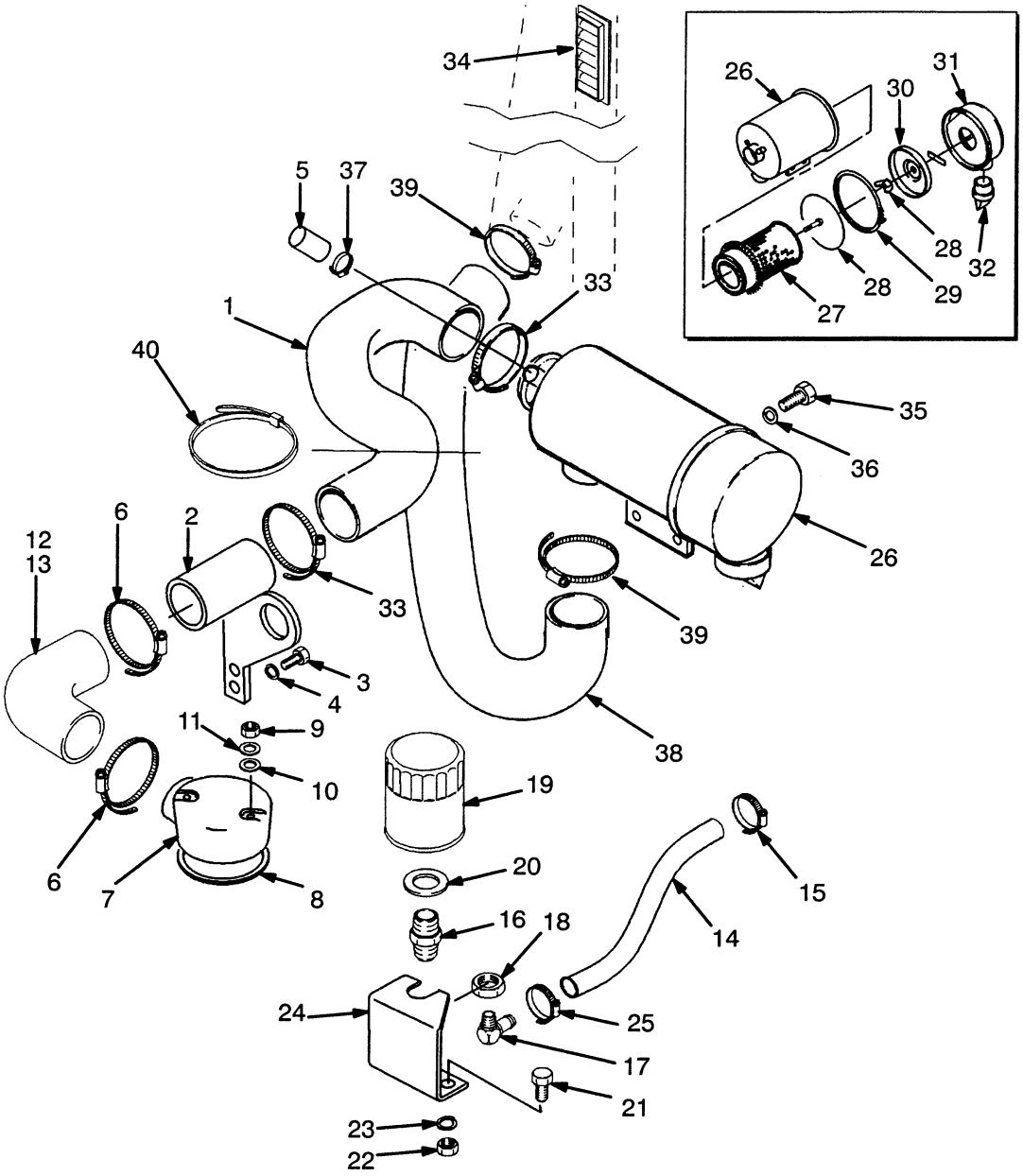
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1343635	Air Filter	1	1
2	c	305080	Element	1	1
3		125847	Nut And Gasket	1	1
4		290734	Clamp	1	1
5		290735	Baffle	1	1
6		374922	Cup	1	1
7		374923	Valve	1	1
8		1339265	Grill	1	1
9		112989	Clamp	4	4
10		287854	Capscrew	2	2
11		292682	Lockwasher	2	2
12		273775	Strap Clamp	1	1
13		1343638	Hose	1	1
14		1368980	Hose	1	..
14	a	1368917	Hose	..	1
14	b	1368980	Hose	..	1
15	a	1347013	Air Bonnet	1	..
16	a	1347021	Bonnet Gasket	1	..
17	a	313828	Nut	2	..
18	a	145831	Washer	2	..
19	a	320157	Washer	2	..
20		120857	Hose	1	..
20	b	1374917	Hose	..	2
21		166857	Clamp	1	4
22	b	2004005	Strap Clamp	..	1
22		2004005	Strap Clamp	3	..
23	a	1359608	Plug	..	1
24	b	1374916	Fitting	..	1
25	b	193008	Hose	..	1
26	b	168718	Clamp	..	1
27		1361794	Hose	..	1
28		1361797	Hose	..	1
29	a	1361766	Elbow	..	1
30	a	1361765	Seal	..	1
31		1365895	Hose	..	1

a Gasoline
b LPG
c Included In Repair Kit 996423

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AIR FILTER AND BREATHER (Figure 89)

GASOLINE AND LPG 3.0L



AIR FILTER AND BREATHER

GASOLINE AND LPG 3.0L

KEY:
A: Gasoline
B: LPG

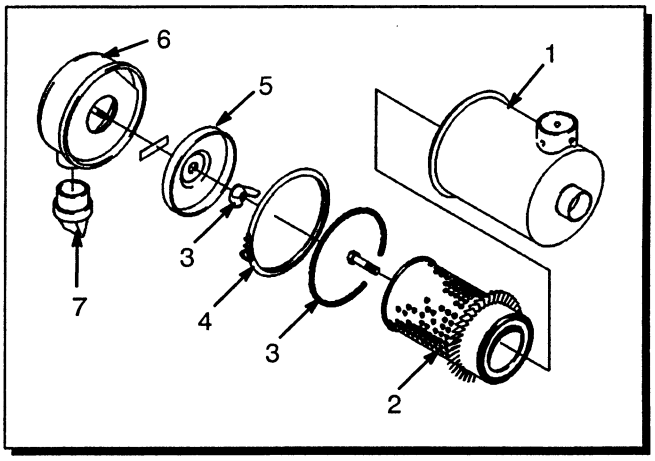
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1375174	Hose (Intake)	1	1
2		1375696	Tube	1	1
3		16598	Capscrew	2	2
4		15156	Lockwasher	2	2
5		1359608	Plug	1	1
6		112989	Clamp	2	2
7		1375722	Air Bonnet	1	..
8		1347021	Gasket	1	..
9		313828	Locknut	2	..
10		109919	Washer (Seal)	2	..
11		320157	Washer	2	..
12	a	1375744	Hose	1	..
13	a	1375693	Hose	..	1
14		1376726	Hose	1	1
15		130845	Clamp	1	1
16		1350042	Adapter	1	1
17		16788	Fitting	1	1
18		14761	Nut	1	1
19		1350036	Filter	1	1
20		1300152	Washer (Seal)	1	1
21		292500	Capscrew	2	2
22		136687	Nut	2	2
23		292680	Lockwasher	2	2
24		1376576	Bracket	1	1
25		166857	Clamp	1	1
26		1343635	Air Filter	1	1
27	b	305080	Element	1	1
28		125847	Nut & Gasket	1	1
29		290734	Clamp	1	1
30		290735	Baffle	1	1
31		374922	Cup	1	1
32		374923	Valve	1	1
33		112989	Clamp	2	2
34		1339265	Grill	1	1
35		287854	Capscrew	2	2
36		292682	Lockwasher	2	2
37		166857	Clamp	1	1
38		1343638	Hose	1	1
39		112989	Clamp	2	2
40		323864	Strap Clamp	1	1

a Not Used With Dual Fuel System
b Included In Repair Kit 996423

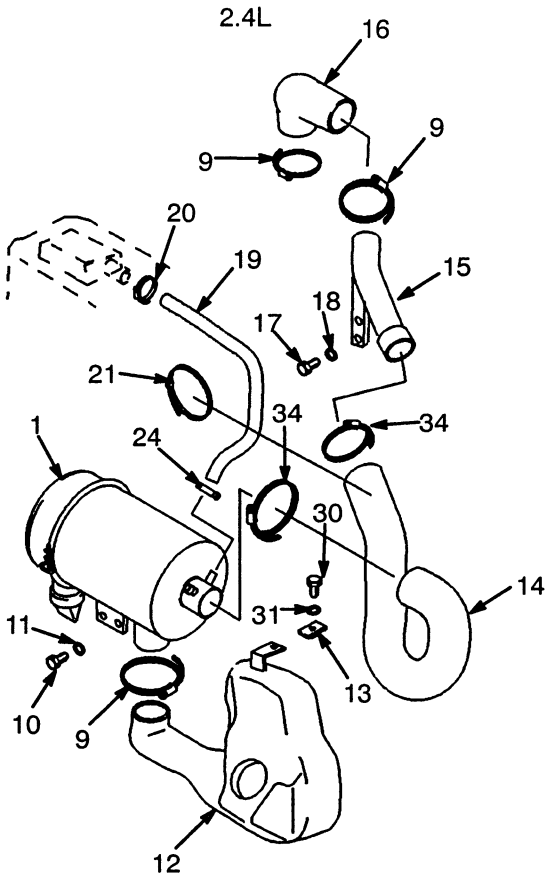
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AIR FILTER (Figure 90)

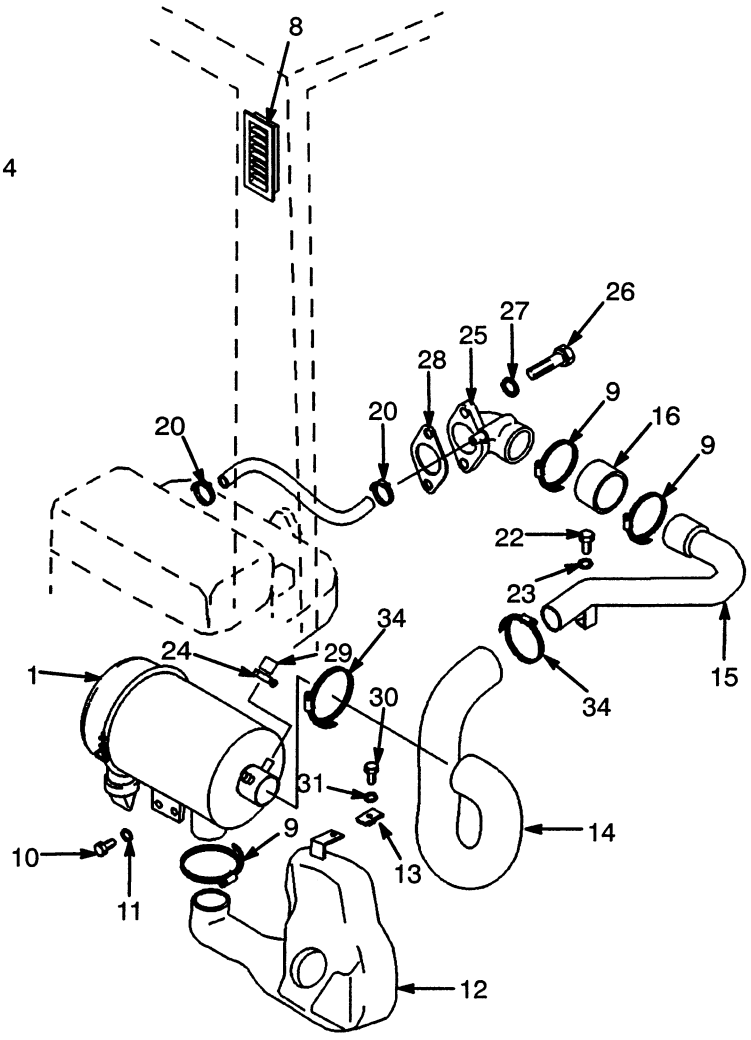
DIESEL

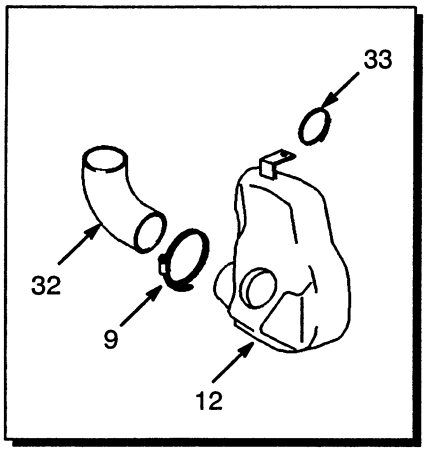


2.4L



2.8L & 3.1L





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AIR FILTER

DIESEL

KEY:
A: 2.4L Engine
B: 2.8L & 3.1L Engine

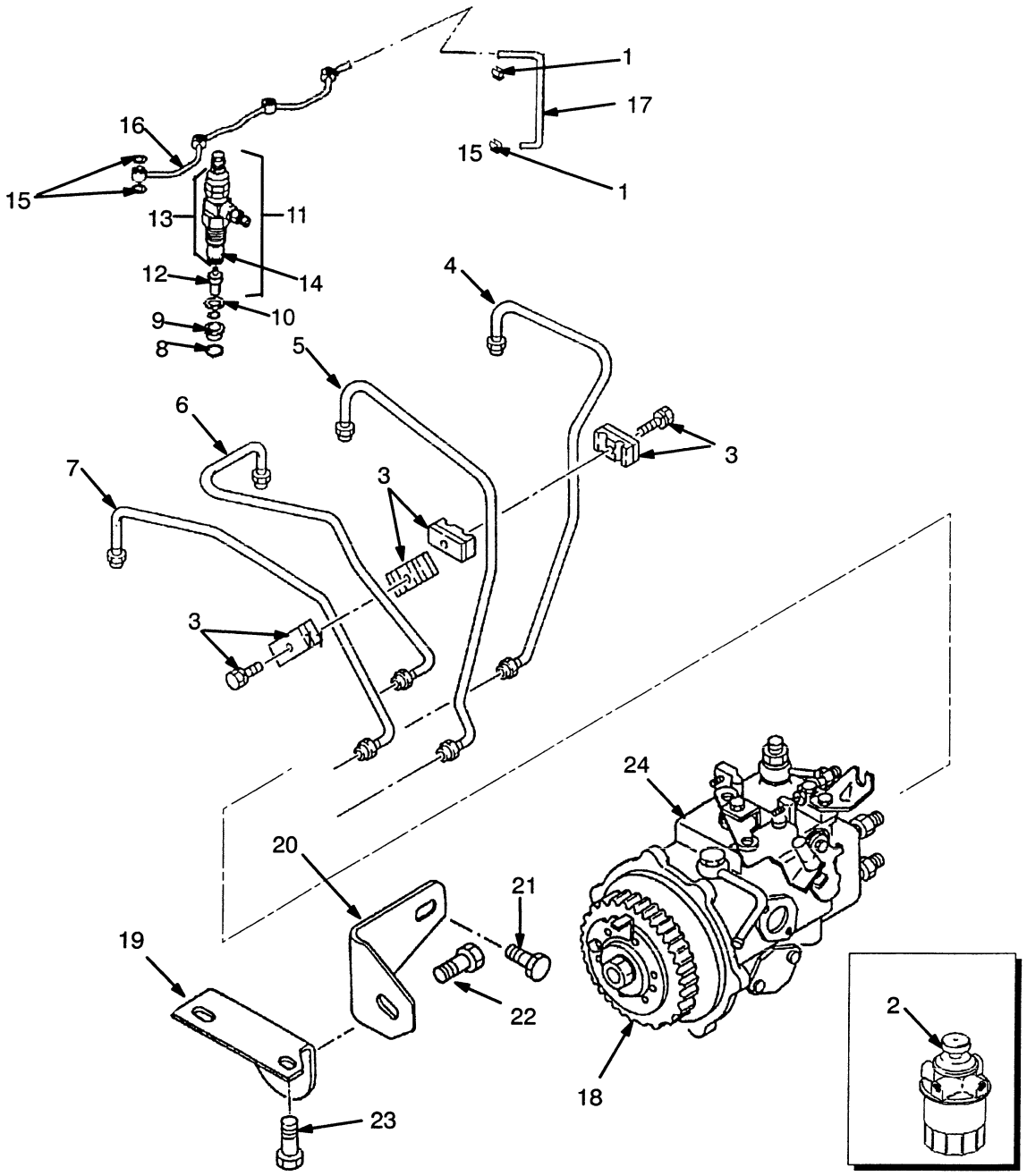
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1343635	Air Filter	1	1
2	c	305080	Element	1	1
3		125847	Nut & Gasket	1	1
4		290734	Clamp	1	1
5		290735	Baffle	1	1
6		374922	Cup	1	1
7		374923	Valve	1	1
8		1339265	Grill	1	1
9		112989	Clamp	4	4
10		287854	Capscrew	2	2
11		292682	Lockwasher	2	2
12	a	1359569	Silencer	1	1
12	b	1383783	Silencer	1	1
13		1350215	Nut	1	1
14		1361104	Hose	1	1
14		1347100	Hose	..	1
15		1347101	Tube	1	..
15		1347106	Tube	..	1
16		1347105	Hose	1	..
16		1347108	Hose	..	1
17		136681	Capscrew	2	..
18		292681	Lockwasher	2	..
19		1347133	Hose	1	..
20		130845	Clamp	1	..
21		2004005	Strap Clamp	1	..
22		136681	Capscrew	..	1
23		292681	Lockwasher	..	1
24		166857	Clamp	1	1
25		1347075	Air Bonnet	..	1
26		287860	Capscrew	..	2
27		292682	Lockwasher	..	2
28		1338761	Gasket	..	1
29		1359608	Plug	..	1
30		292500	Capscrew	1	1
31		292680	Washer	1	1
32	b	1383784	Elbow	1	1
33		114312	Clamp	1	1
34		1394008	Clamp	2	2

a Last Used On S/N D177B-31975
b First Used On S/N D177B-31976
c Included In Repair Kit 996423

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FUEL INJECTION (Figure 91)

DIESEL 2.4L



FUEL INJECTION

DIESEL 2.4L

REF		PART NO.	NAME OF PART	QTY
1		1329353	Clip	2
2		.....	Fuel Filter	1
			☞ Figure 79	
3		1329352	Clamp	5
4		1329349	Pipe	1
5		1329348	Pipe	1
6		1329347	Pipe	1
7		1329346	Pipe	1
8		324410	Washer	4
9		324408	Shield	4
10	a	324411	Washer	4
11		1376449	Nozzle (Assembly)	4
12		324407	Nozzle	1
13		323807	Holder	1
14		1370927	Retainer (Nut)	1
15	a	324412	Seal	8
16		1329350	Pipe	1
17		1329351	Hose	1
18		1329362	Gear	1
19		1329363	Bracket	1
20		1329364	Bracket	1
21		1329359	Bolt	2
22		1329365	Bolt	1
23		1329366	Bolt	2
24		.....	Injection Pump	1
			☞ Figure 87	

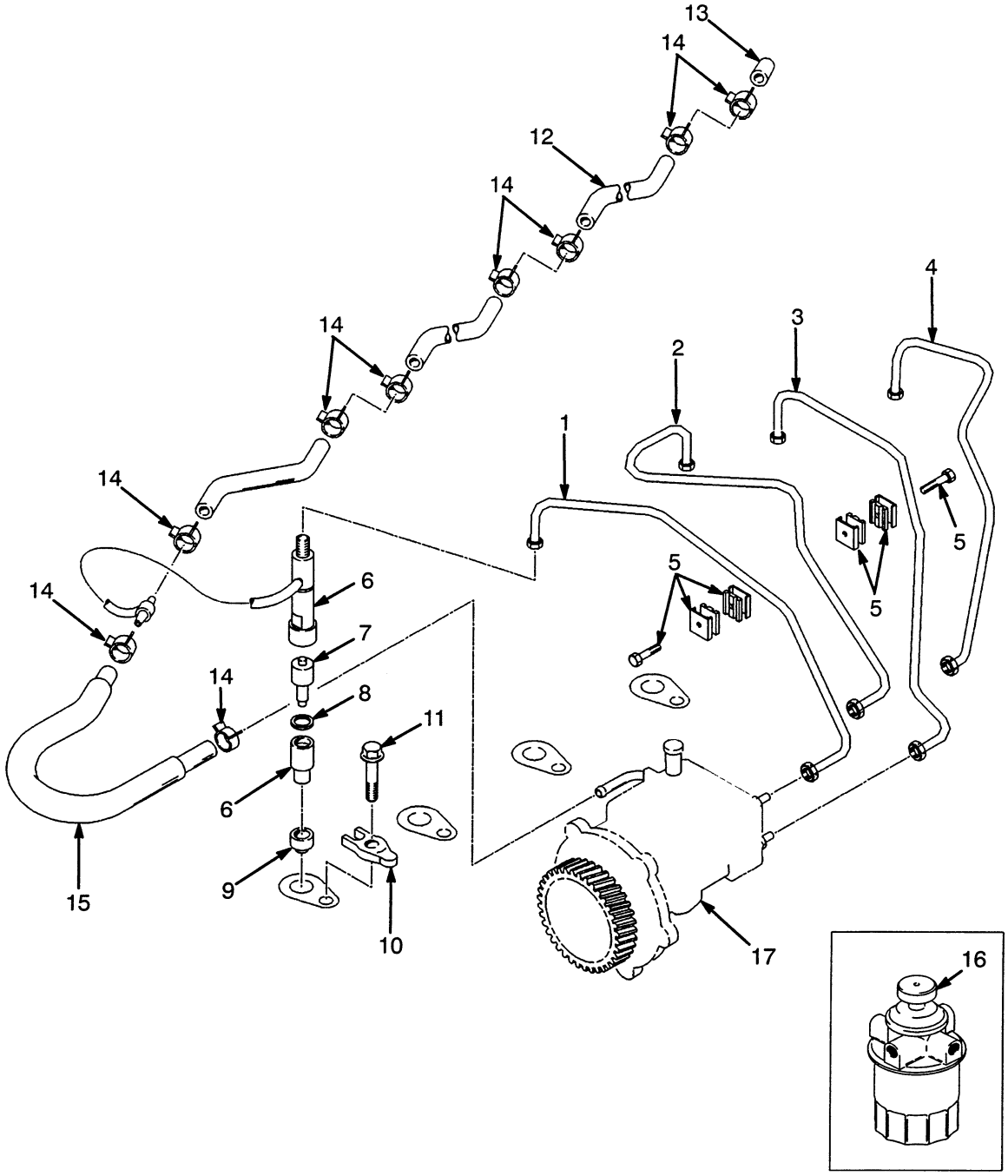
a Included In Seal Kit 1457161

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FUEL INJECTION (Figure 92)

DIESEL 2.8L

LAST USED ON S/N D177B-8291



FUEL INJECTION

DIESEL 2.8L

LAST USED ON S/N D177B-8291

REF	PART NO.	NAME OF PART	QTY
1	1338763	Injection Pipe #1	1
2	1338764	Injection Pipe #2	1
3	1338765	Injection Pipe #3	1
4	1338766	Injection Pipe #4	1
5	1329352	Clamp Assembly	3
6	1338768	Nozzle Holder	4
7	1338767	Nozzle	4
8	1338769	O-Ring	4
9	1338770	Gasket	4
10	1338771	Bracket	4
11	1338772	Bolt	4
12	1338773	Hose	3
13	1338774	Cap	1
14	1329353	Clamp	9
15	1338775	Hose	1
16	.....	Fuel Filter ☞ Figure 79	1
17	.....	Injection Pump ☞ Figure 87	1

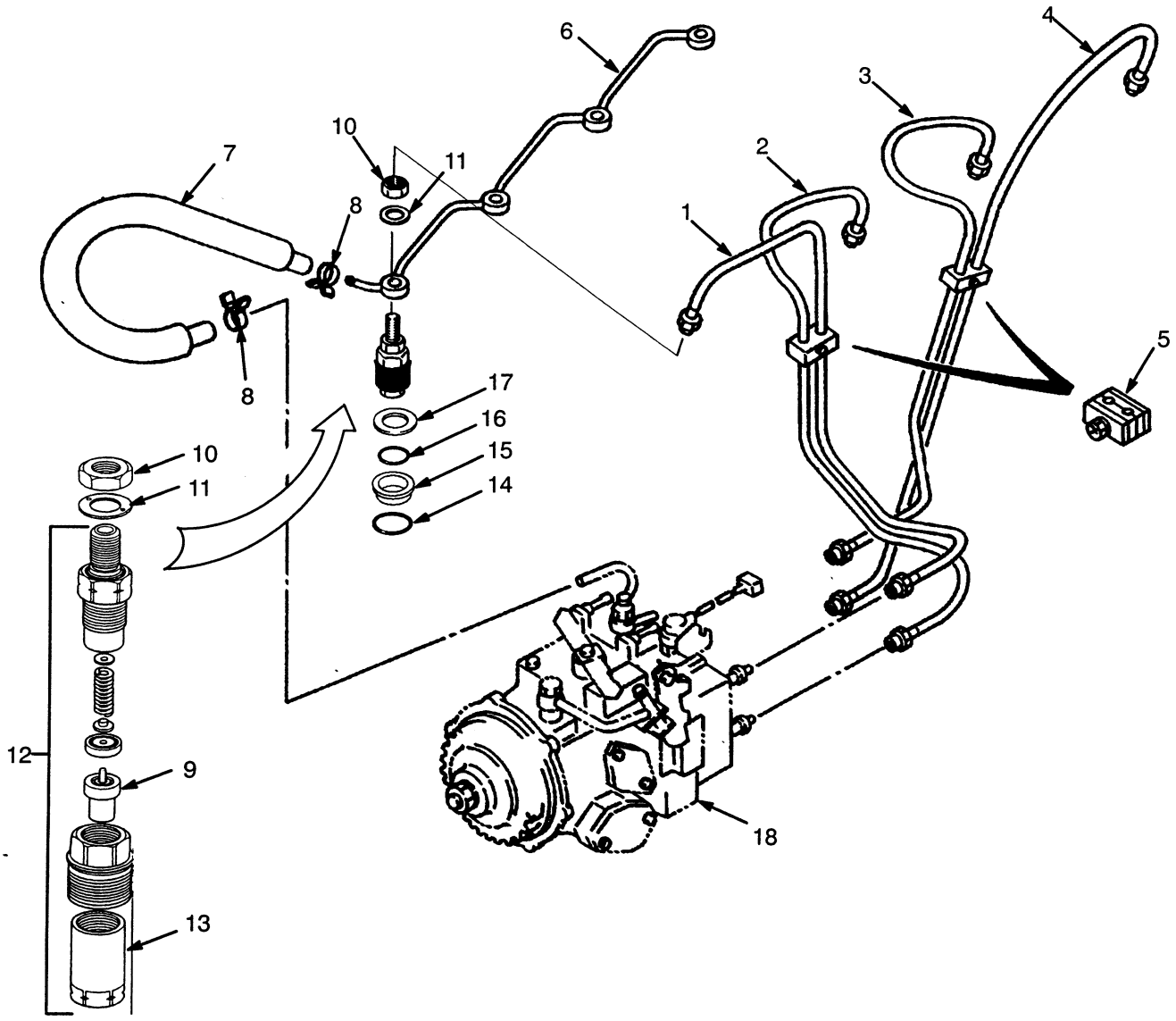
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FUEL INJECTION (Figure 93)

DIESEL 3.1L

FIRST USED ON S/N D177B-8292



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FUEL INJECTION

DIESEL 3.1L

FIRST USED ON S/N D177B-8292

REF		PART NO.	NAME OF PART	QTY
1		1374958	Injection Pipe #1	1
2		1374959	Injection Pipe #2	1
3		1374960	Injection Pipe #3	1
4		1374961	Injection Pipe #4	1
5		1329352	Clamp	2
6		1374962	Pipe Assembly	1
7		1374963	Hose	1
8		1329353	Clamp	2
9		1374983	Nozzle	4
10		1374984	Nut	4
11	a	1374985	Gasket	4
12		1374986	Nozzle Holder	4
13		1374987	Nut	1
14	a	1379763	Washer	4
15	a	1456641	Shield	4
16	a	1379761	Wave Washer	4
17	a	1456640	Washer	4
18		.....	Injection Pump	1

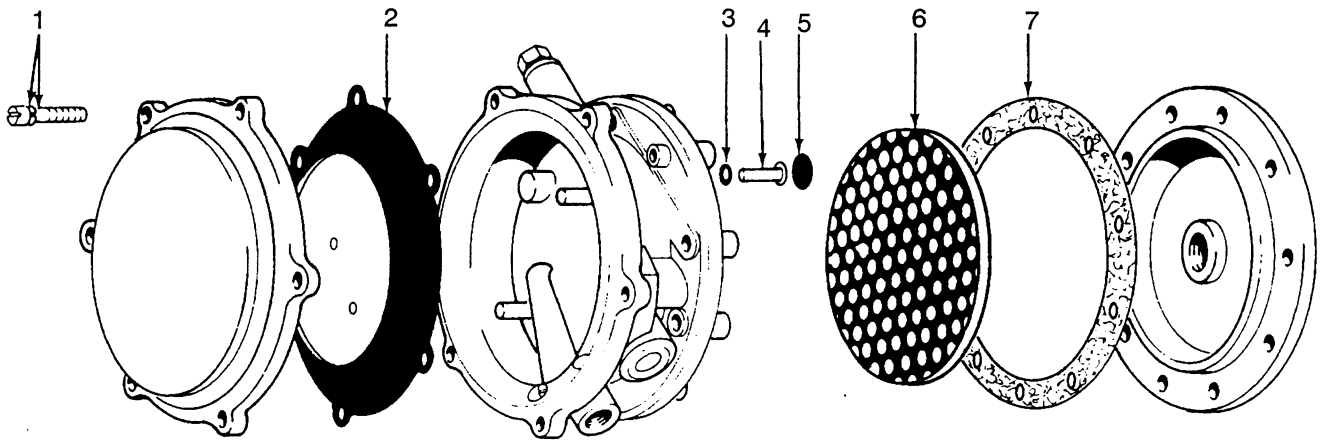
☞ Figure 87

a Included In Seal Kit 1457161

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FILTER AND LOCK-OFF VALVE (Figure 94)

LPG

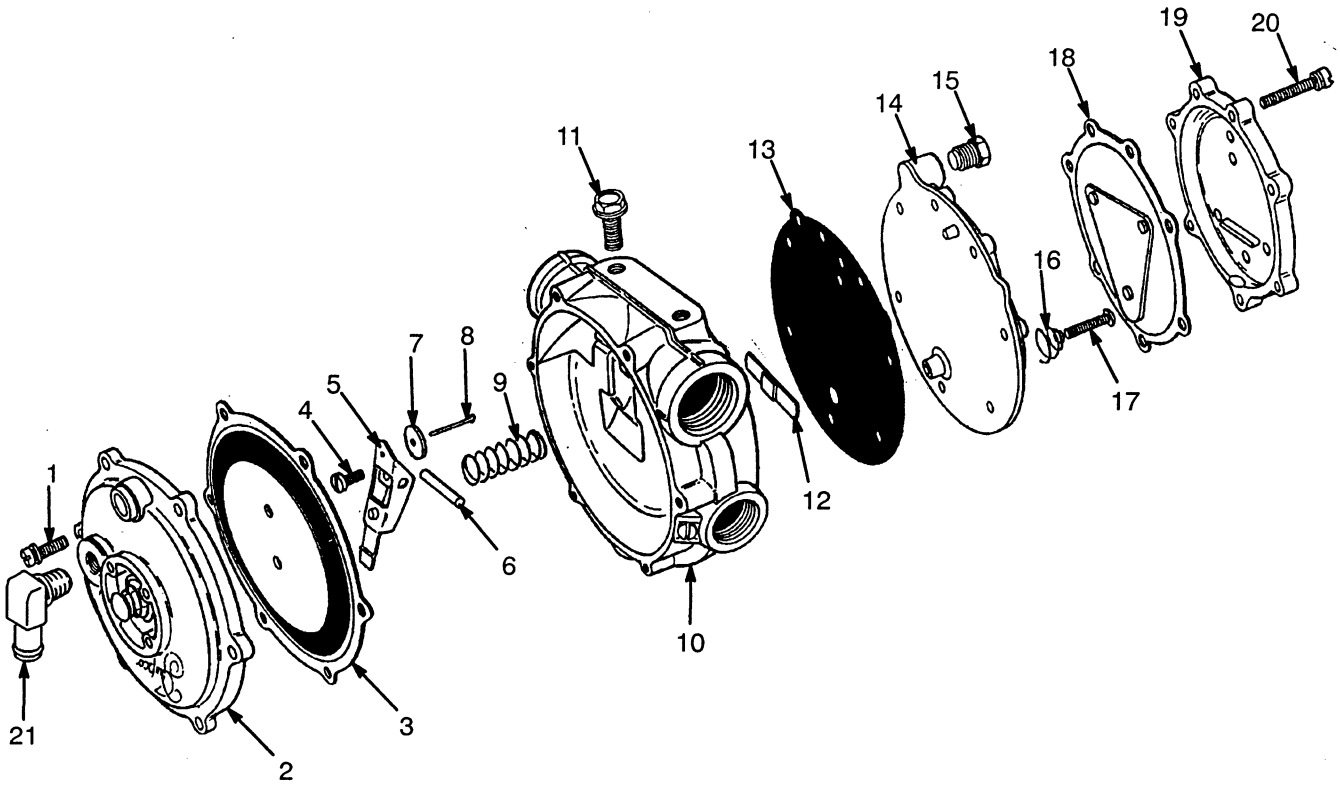


REF	PART NO.	NAME OF PART	QTY
	258321	Lock-Off Filter	1
1 [a]	.....	Screw	2
1 [a]	.....	Washer	2
2 [a]	.....	Diaphragm	1
3 [a]	.....	O-Ring	1
4 [a]	.....	Screw	1
5 [a]	.....	Valve Seat	1
6 [a]	263962	Filter	1
7 [a]	.....	Gasket	1

[a] Included In Repair Kit 263958

LPG CONVERTER (Figure 95)

LAST USED ON S/N D177B-10965



REF		PART NO.	NAME OF PART	QTY
		1354076	Converter (LPG)	1
1	a	12445	Capscrew	6
1		....	Lockwasher	6
2		1357740	Cover	1
3	a	1357742	Diaphragm	1
4	a	16719	Screw	1
4		.....	Lockwasher	1
5		1357746	Lever	1
6		204830	Pin	1
7	a	.....	Seat	1
8		.....	Pin	1
9		204831	Spring	1
10		1357739	Body	1
11		.....	Screw	2

REF		PART NO.	NAME OF PART	QTY
11		.....	Lockwasher	2
12	a	1357703	Seat	1
13	a	1357745	Gasket	1
14		1357748	Plate	1
15		1357749	Fitting Plug	1
16		204835	Spring	1
17	a	1357747	Pin	1
18	a	1357741	Diaphragm	1
19		1357743	Cover	1
20	a	16849	Screw	7
20		.....	Lockwasher	7
21	a	1369066	Check Valve	1

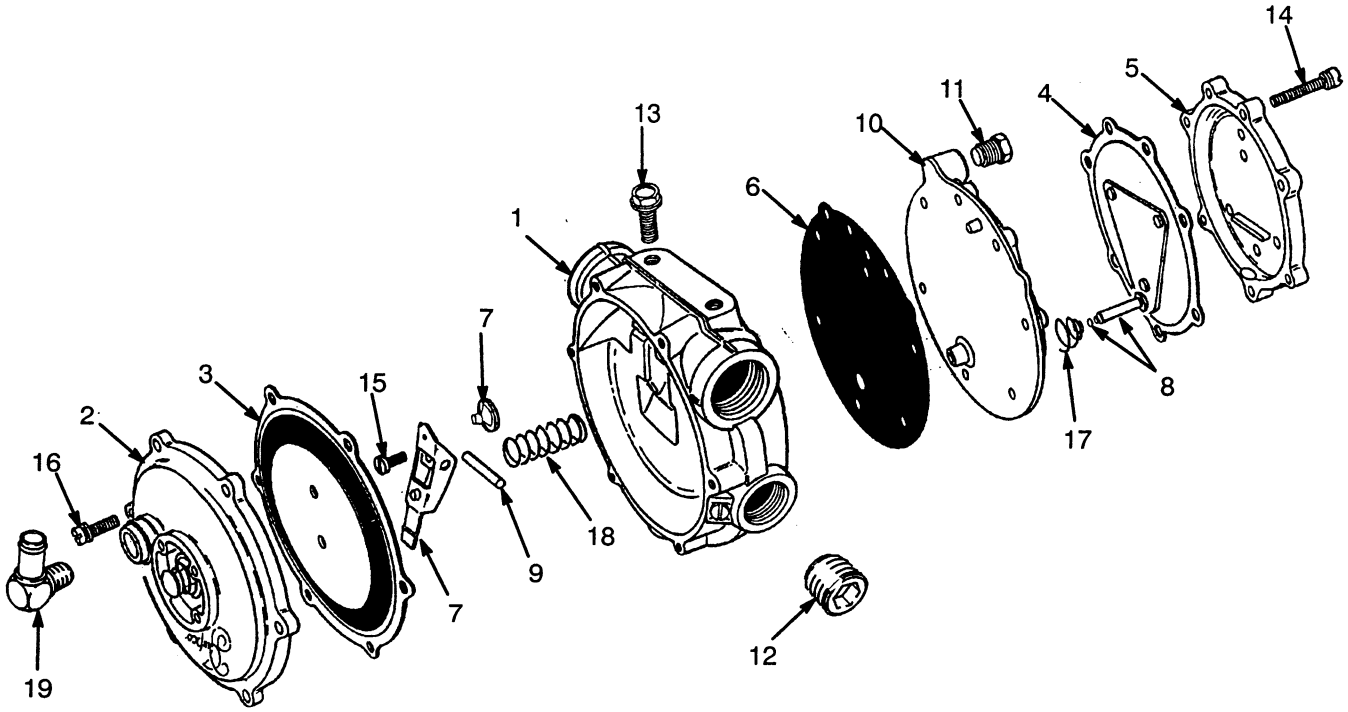
a Included In Repair Kit 1367119

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See Service Manual for service procedures

LPG CONVERTER (Figure 96)

FIRST ON S/N D177B-10966



REF		PART NO.	NAME OF PART	QTY
	b	1369572	Converter Assembly	1
1		1455310	Body	1
2		.....	Cover	1
3	a	1375047	Diaphragm (Secondary)	1
4	a	.....	Diaphragm (Primary)	1
5		1375037	Cover (Primary)	1
6	a	.....	Gasket	1
7		204829	Lever (Secondary)	1
7	a	.....	Seat	1
8	a	1376429	Pin Assembly	1
9		204830	Pin	1
10		1375029	Plate	1
11		1357749	Plug	1
12		1357707	Plug	1
13		1369065	Screw	2
14	a	1450126	Screw	2
15		1455306	Screw	1
16	a	1450126	Screw	2
17		1375030	Spring	1
18		204831	Spring	1
19		1369066	Check Valve	1

a Included In Repair Kit 1375031
b Service With Converter 1457964

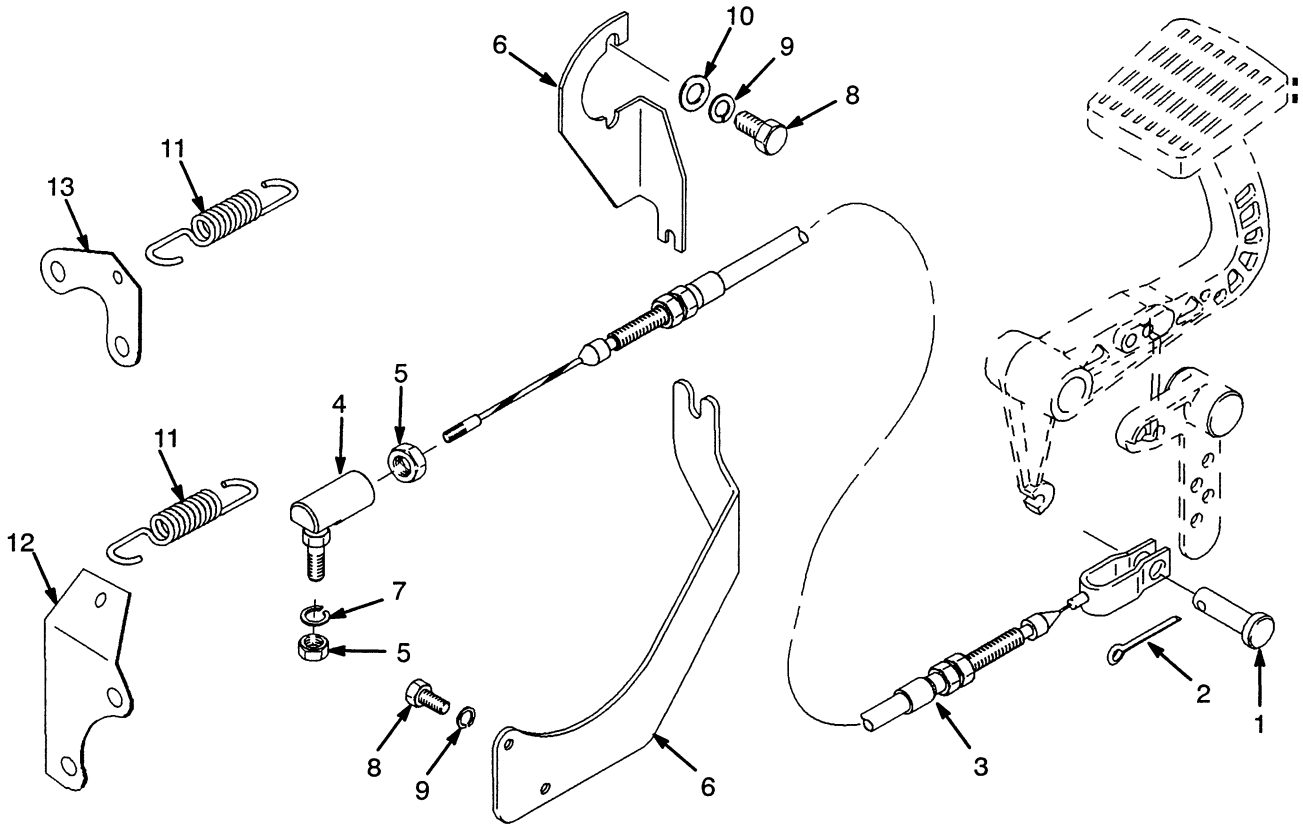
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THROTTLE LINKAGE (Figure 97)

DIESEL



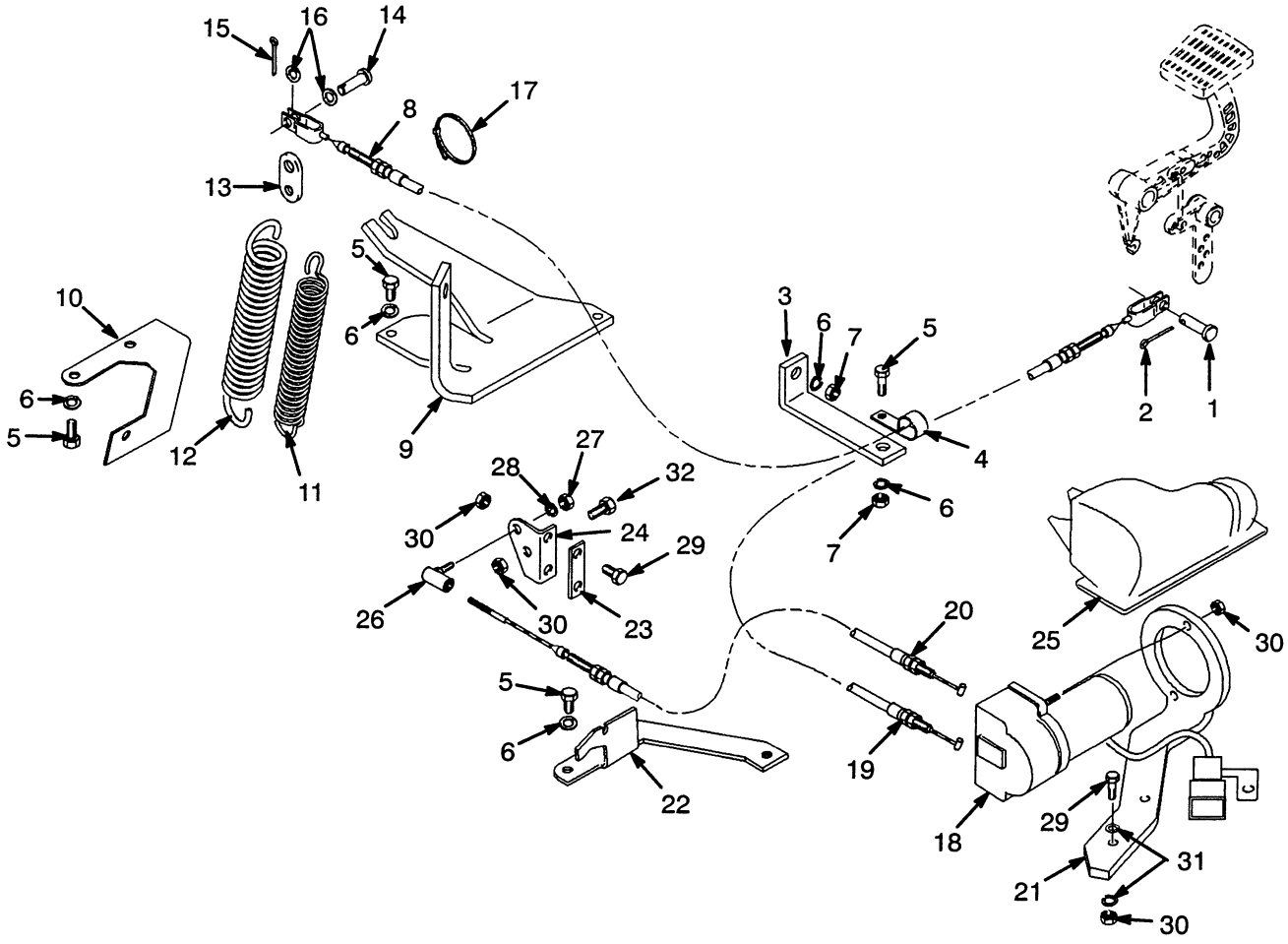
KEY:
A: 2.4L Engine
B: 2.8L & 3.1L Engine

REF	PART NO.	NAME OF PART	QTY A	QTY B
1	162836	Rod End Pin	1	1
2	15212	Pin	1	1
3	1356522	Cable	1	..
3	1339632	Cable	..	1
4	203010	Ball Joint	1	1
5	15002	Nut	2	2
6	1320766	Bracket	1	..
6	1329285	Bracket	..	1
7	292679	Washer	1	1
8	292500	Capscrew	2	..
8	292515	Capscrew	..	2
9	292680	Lockwasher	2	..
9	292682	Lockwasher	..	2
10	320159	Washer	..	2
11	1363958	Spring	1	1
12	1363956	Plate	1	..
13	1363957	Plate	..	1

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THROTTLE LINKAGE (Figure 98)

GASOLINE AND LPG 2.2L



THROTTLE LINKAGE

GASOLINE AND LPG 2.2L

KEY:
A: Gasoline
B: LPG

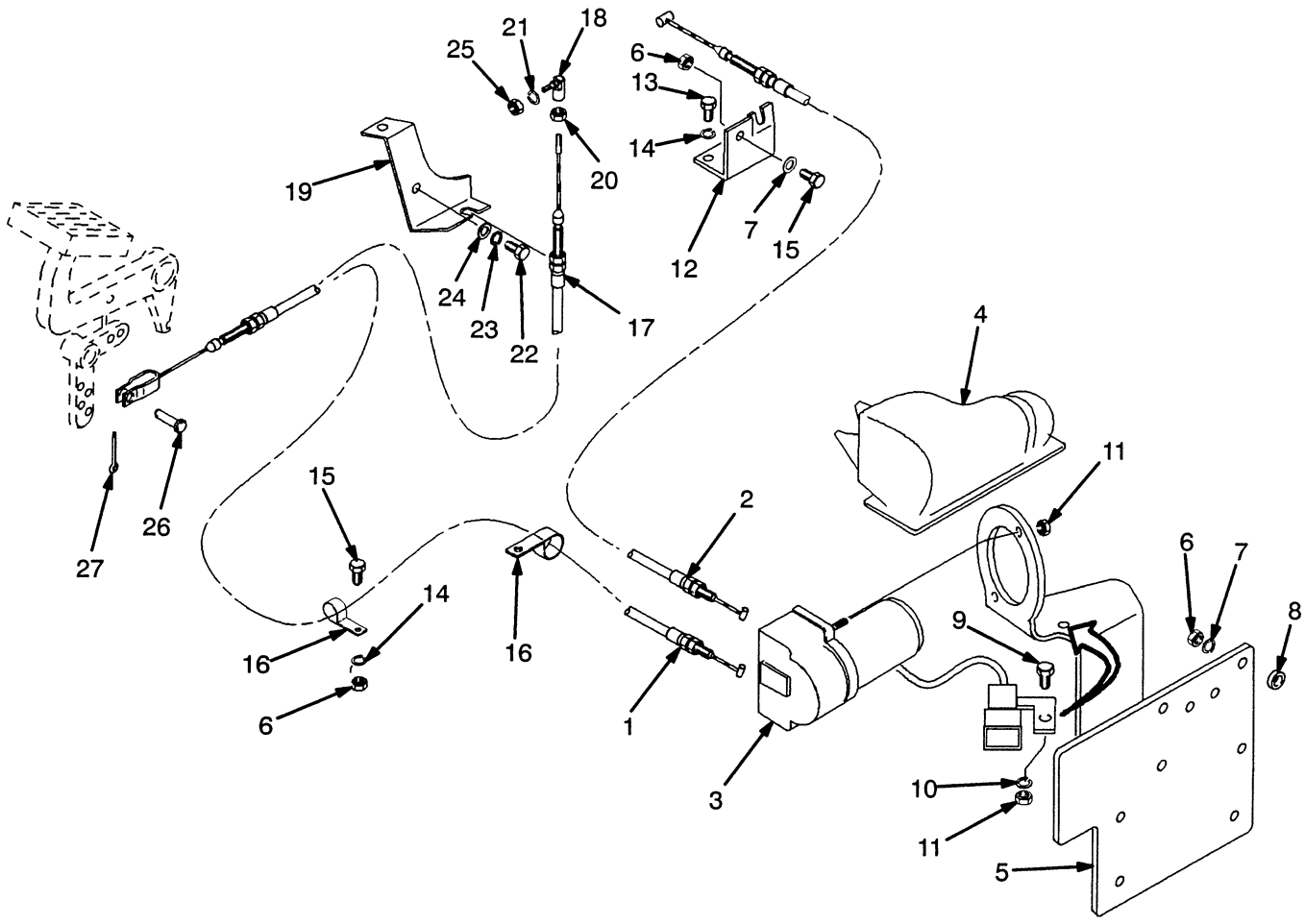
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		162836	Rod End Pin	1	1
2		15212	Pin	1	1
3		1356438	Cable Bracket	1	1
4		198675	Clamp	1	1
5		136681	Capscrew	2	4
6		292681	Washer	3	5
7		239503	Nut	2	2
8		1339628	Throttle Cable	..	1
9		1354253	Throttle Bracket	..	1
10		1356390	Spring Bracket	..	1
11		1356404	Spring	..	1
12		1363921	Spring	..	1
13		1345022	Link	..	1
13	a	1376613	Link	..	1
14		126	Rod End Pin	..	1
15		15200	Pin	..	1
16		320156	Washer	..	2
17		137852	Strap Clamp	..	1
18		1359450	Actuator	1	..
19		1352641	Throttle Cable (To Pedal Assy)	1	..
20		1352642	Throttle Cable (To Throttle)	1	..
21		1356115	Actuator Bracket	1	..
22		1354254	Throttle Bracket	1	..
23		1354251	Plate	1	..
24		1354252	Plate	1	..
25		1356437	Cover	1	..
26		203010	Ball Joint	1	..
27		15002	Nut	2	..
28		292679	Washer	1	..
29		292501	Capscrew	4	..
30		313805	Nut	6	..
31		320156	Washer	2	..
32		287816	Capscrew	1	..

a High Altitude Performance

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THROTTLE LINKAGE (Figure 99)

GASOLINE AND LPG 3.0L



THROTTLE LINKAGE

GASOLINE AND LPG 3.0L

KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1375834	Throttle Cable	1	..
2		1375835	Throttle Cable	1	..
3		1359450	Actuator	1	..
4		1356437	Cover	1	..
5		1375826	Bracket	1	..
6		313828	Locknut	5	..
7		320158	Washer	4	..
8		1375848	Spacer	3	..
9		287816	Capscrew	1	..
10		320156	Washer	1	..
11		313805	Locknut	3	..
12		1375786	Bracket	1	..
13		136681	Capscrew	1	..
14		292681	Lockwasher	2	..
15		136681	Capscrew	2	..
16		1376782	Clamp	2	..
17		1339632	Cable	..	1
18		161252	Ball Joint	..	1
19	a	1376577	Bracket	..	1
19	b	1389499	Bracket	..	1
20		15002	Nut	..	1
21		15154	Lockwasher	..	1
22		16836	Capscrew	..	1
23		15155	Lockwasher	..	1
24		18515	Washer	..	1
25		15004	Nut	..	1
26		162836	Pin	1	1
27		15212	Cotter Pin	1	1

a Last Used On S/N D177B-39471
b First Used On S/N D177B-39472

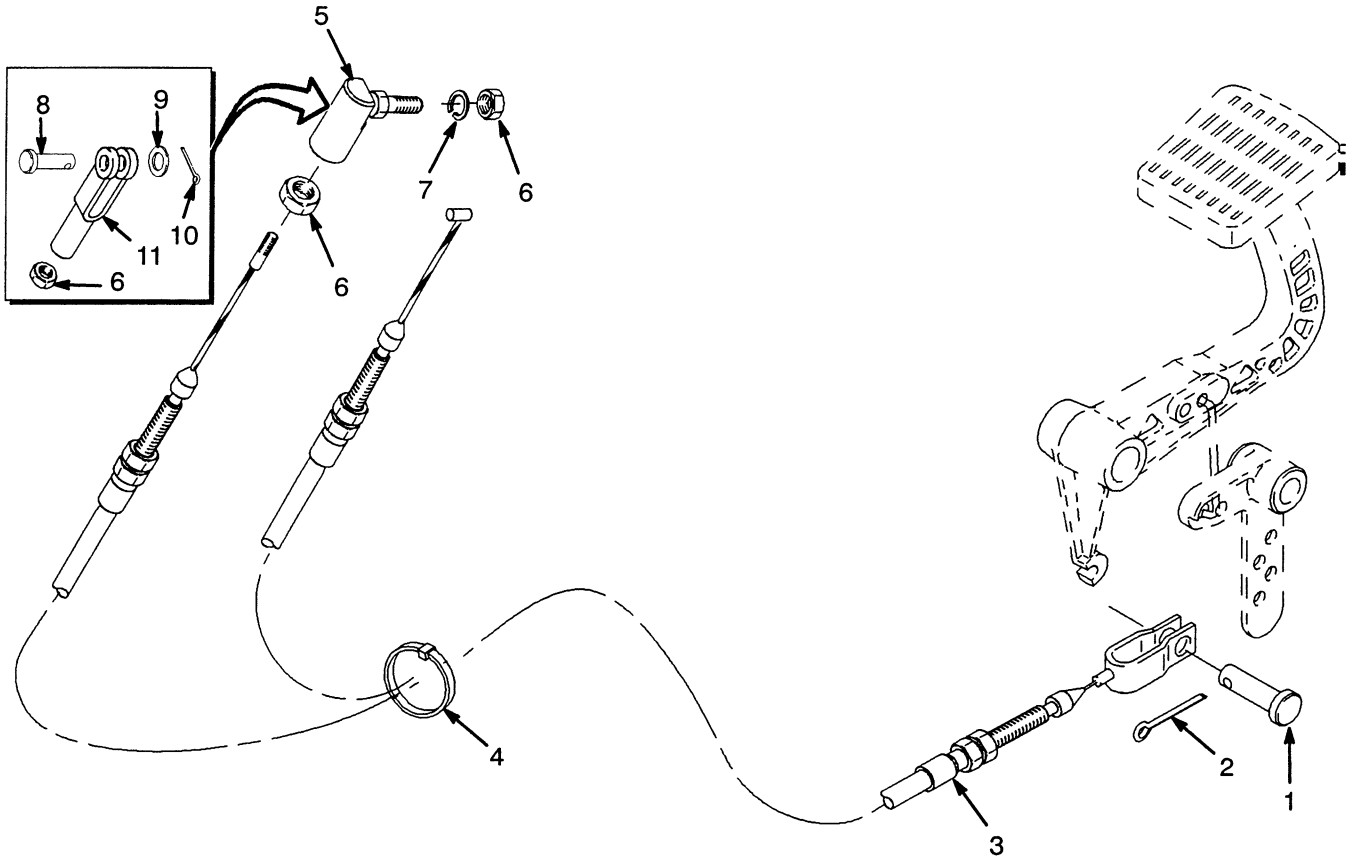
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THROTTLE LINKAGE (Figure 100)

GASOLINE AND LPG 2.0L



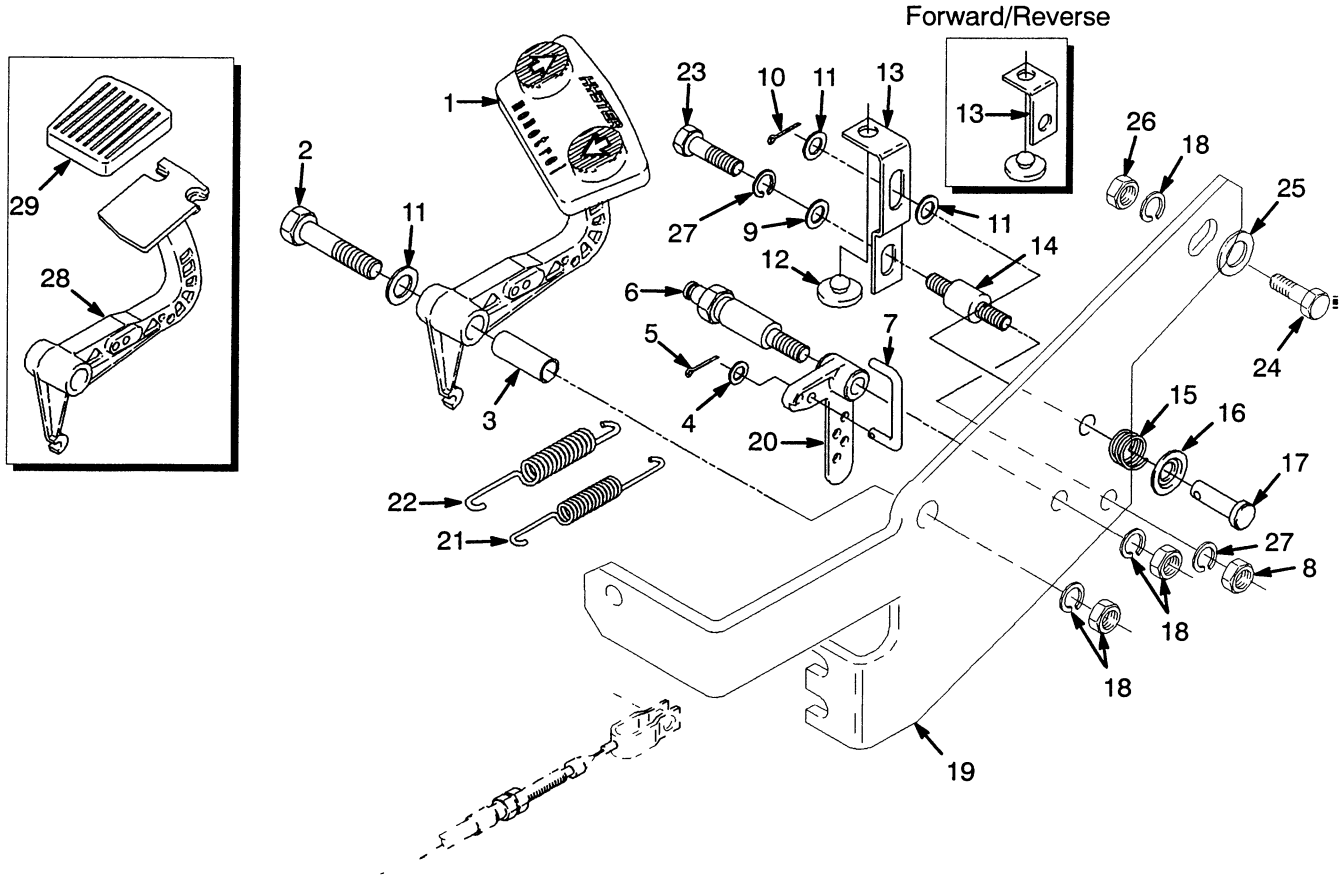
KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		162836	Rod End Pin	1	1
2		15212	Pin	1	1
3		1339626	Cable	1	..
3		1356522	Cable	..	1
4		137852	Strap Clamp	1	1
5	a	203010	Ball Joint	..	1
6	a	15002	Nut	..	2
6	b	15002	Nut	..	1
7		292679	Lockwasher	..	1
8	b	309109	Pin	..	1
9	b	320155	Washer	..	1
10	b	15200	Cotter Pin	..	1
11	b	161617	Rod End	..	1

a Last Used On S/N D177B-15620
b First Used On S/N D177B-15621

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PEDAL LINKAGE (Figure 101)



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

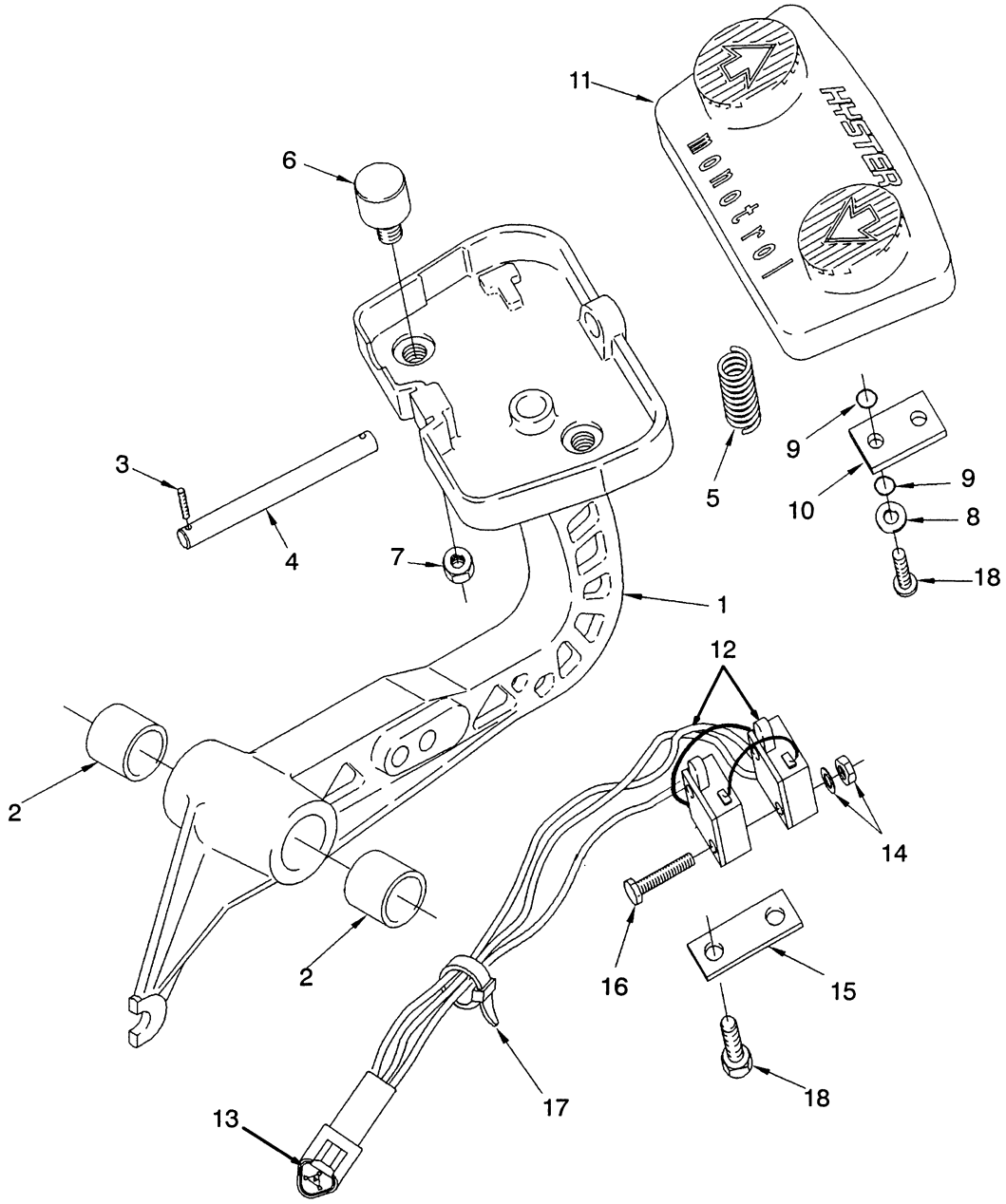
REF	PART NO.	NAME OF PART	QTY A	QTY B
1	.....	Monotrol Pedal	1	..
		☞ Figure 102		
2	292523	Capscrew	1	..
2	292521	Capscrew	..	1
3	353141	Tube	1	..
3	325708	Tube	..	1
4	320156	Washer	1	1
5	15200	Pin	1	1
6	352485	Shaft	1	1
7	1347159	Rod	1	1
8	239503	Nut	1	..
8	296128	Nut	..	1
9	320158	Washer	1	..
10	15212	Pin	1	..
11	320160	Washer	3	2
12	353195	Bumper	1	1
13	352950	Bracket	1	..
13	353159	Bracket	..	1
14	353453	Mount	1	..

REF	PART NO.	NAME OF PART	QTY A	QTY B
15	353172	Spring	1	..
16	353230	Cap	1	..
17	142	Pin	1	..
18	292682	Lockwasher	4	4
18	136692	Nut	2	2
19	1339717	Bracket	1	1
20	353164	Crank	1	1
21	353142	Spring	1	1
22	353143	Spring	1	1
23	287851	Capscrew	1	..
23	287854	Capscrew	..	1
24	136985	Capscrew	2	2
25	320159	Washer	2	2
26	136692	Nut	2	2
27	292681	Lockwasher	2	..
27	292682	Lockwasher	..	1
28	352499	Pedal	..	1
29	352885	Pad	..	1

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MONOTROL PEDAL (Figure 102)



REF	PART NO.	NAME OF PART	QTY
	1352575	Pedal	1
1	353397	Pedal	1
2	135685	Bushing	2
3	220932	Screw	2
3	360387	Loctite	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

REF	PART NO.	NAME OF PART	QTY
11	353175	Monotrol Pad	1
12	1352090	Switch Assembly	1
12	....	Harness	1
13	1330410	Connector	1
13	1330415	Lock	1
13	1330435	Terminal	3
14	53162	Lockwasher	2
14	16865	Nut	2
15	353165	Retainer	1
16	220434	Screw	2
17	114312	Strap Clamp	3
18	352969	Screw	6

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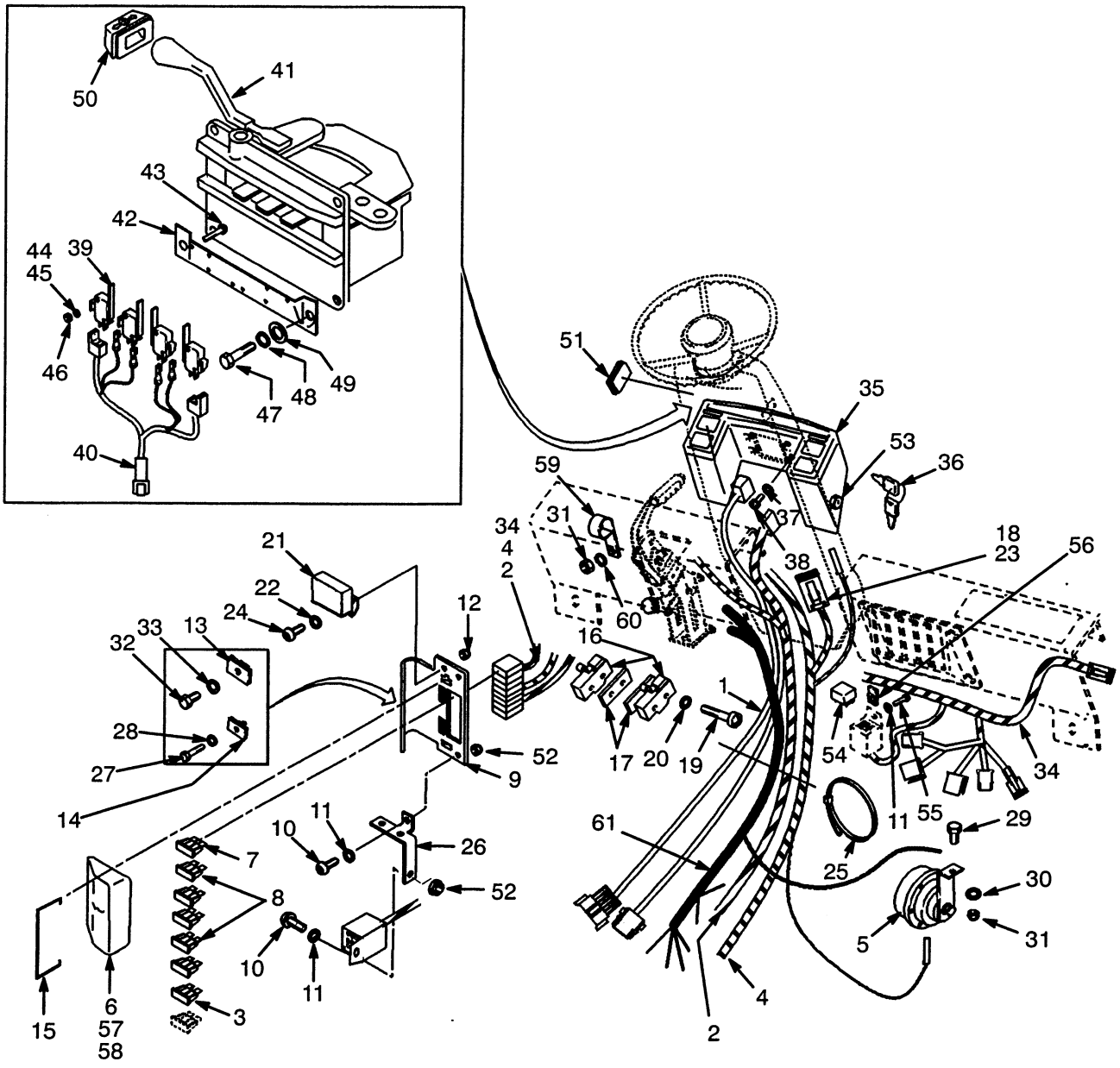
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NOTES

ELECTRICAL-COWL (Figure 103)

LAST USED ON S/N D177B-35854



ELECTRICAL-COWL

LAST USED ON S/N D177B-35854

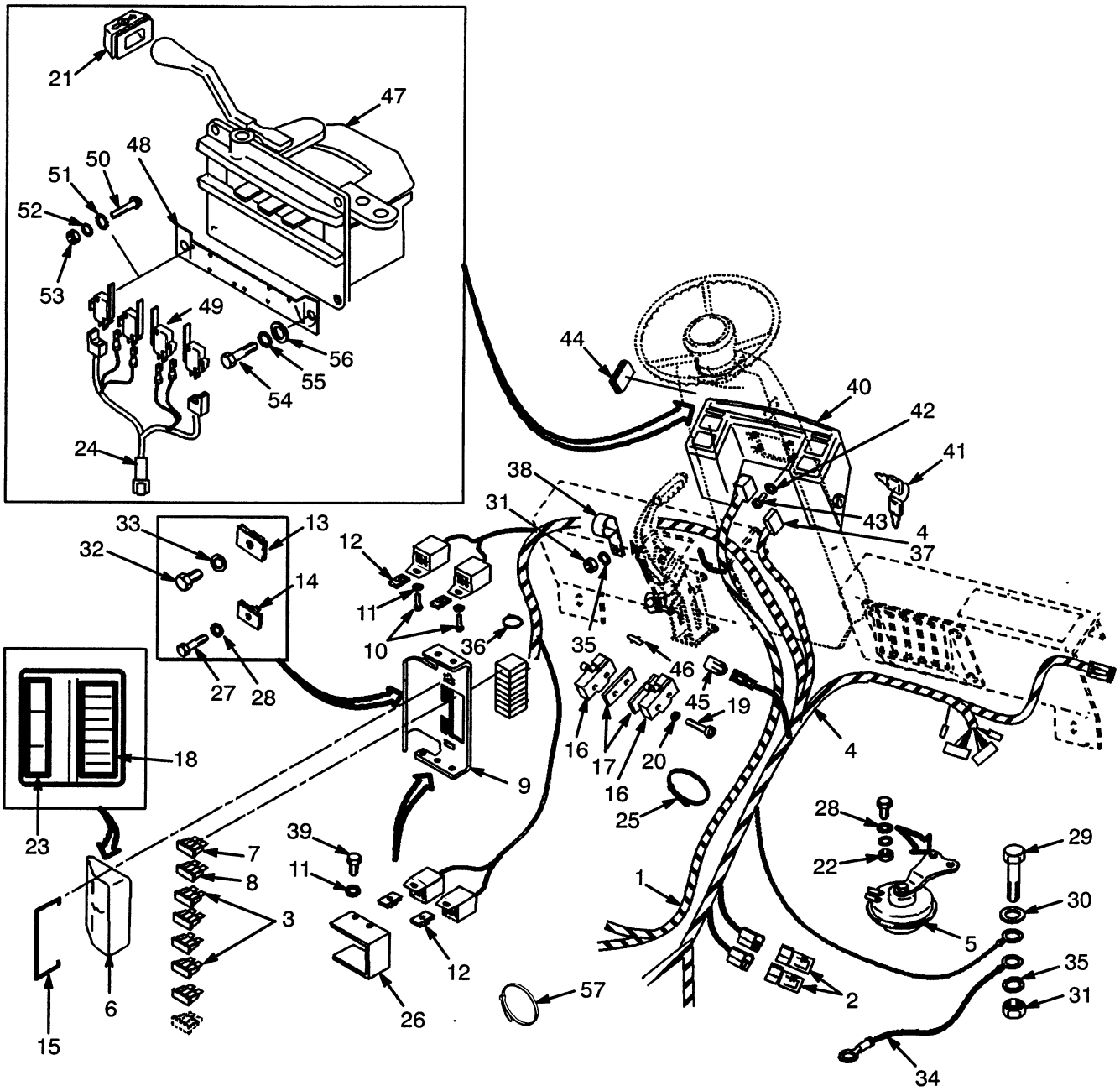
REF		PART NO.	NAME OF PART	QTY
1		.....	Harness-Cluster	1
			☞ Figure 107	
2		.....	Harness-Cluster Power	1
			☞ Figure 109	
3		1320669	Fuse (30 Amp)	1
4		.....	Harness-Cowl	1
			☞ Figure 105	
5		1383778	Horn	1
6		370863	Cover	1
7		370646	Fuse (5 Amp)	1
8		370647	Fuse (10 Amp)	2
9		1354088	Bracket	1
10		302244	Capscrew	4
11		320155	Washer	8
12		316833	Nut	3
13		1350282	Nut	1
14		1354323	Nut	1
15		370864	Latch	1
16		370868	Switch	2
16	a	387869	Boot	2
17		316132	Spacer	2
18	b	1330412	Connector	1
19		86510	Screw	4
20		138573	Lockwasher	4
21		157554	Horn Relay	1
21	a	272155	Boot	1
22		197067	Washer	2
23	b	1330439	Plug	6
24		296151	Capscrew	2
25		273775	Clamp	AR
26		1354264	Bracket	1
27		292501	Screw	1
28		320156	Washer	1
29		176640	Capscrew	1
30		320158	Washer	1
31		292654	Nut	3
32		136681	Capscrew	1
33		320157	Washer	1
34		.....	Harness-Lighting	1
			☞ Figure 110	
35		.....	Instrument Cluster	1
			☞ Figure 153	
36		1337197	Key	1
37		292680	Spring Washer	4
38		292500	Capscrew	4
39	c	1343636	Switch	4
40	c	.....	Harness (Fwd/Rev)	1
			☞ Figure 111	
41	c	.....	Shift Lever	1
			☞ Figure 154	
42	c	1343595	Plate	1
43	c	220426	Screw	8
44	c	53162	Lockwasher	8
45	c	18419	Lockwasher	8
46	c	16865	Nut	8
47	c	292500	Capscrew	4
48	c	292680	Lockwasher	4
49	c	320156	Washer	4
50	c	1343596	Bracket	1
51	b	1343597	Plug	1
52		1376581	U Nut	2
53		.....	Ignition Switch	1
			☞ Figure 153	
54	d	1347114	Reverse Light Relay	1
55	d	302245	Screw	1
56	d	1376581	U Nut	1
57		1365859	Label (Fuse Panel)	1
58		1365860	Label (Cab Fuses)	1
59		196395	Clamp	2
60		292681	Washer	2
61		.....	Wire Harness (Optional)	1
			☞ Figure 256	

a Types GS,LPS and DS
b Monotrol Pedal
c Forward/Reverse Lever
d First Used On S/N D177B-10149

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ELECTRICAL-COWL (Figure 104)

FIRST USED ON S/N D177B-35855



ELECTRICAL-COWL

FIRST USED ON S/N D177B-35855

REF		PART NO.	NAME OF PART	QTY
1		.....	Harness-Cluster	1
			☞ Figure 109	
2		1361305	Diode	2
3		1320669	Fuse (30 Amp)	2
4		.....	Harness-Cowl	1
			☞ Figure 106	
5		2021957	Horn	1
6		370863	Cover	1
7		370646	Fuse (5 Amp)	1
8		370647	Fuse (10 Amp)	1
9		1376748	Bracket	1
10		302244	Screw	1
11		320155	Washer	3
12		1376581	U Nut	3
13		1350282	Nut	1
14		1354323	Nut	1
15		370864	Latch	1
16		370868	Switch	1
16		370868	Switch (Monotrol Pedal)	2
16	a	387869	Boot (Monotrol Pedal)	2
17		316132	Spacer	1
17		316132	Spacer (Monotrol Pedal)	2
18		1389485	Label (Fuse Panel)	1
19		86510	Screw	2
19		86510	Screw (Monotrol Pedal)	4
20		138573	Washer	2
20		138573	Washer (Monotrol Pedal)	2
21		1343596	Bracket (Forward/Reverse Lever)	1
22		313805	Nut	2
23		1365860	Label (Accessory Fuses)	1
24		.....	Harness (Forward/Reverse Lever)	1
			☞ Figure 111	
25		129563	Strap Clamp	AR
26		1389475	Bracket	1
27		292501	Capscrew	3
28		320156	Washer	3
29		176640	Capscrew	1
30		320158	Washer	1
31		292654	Nut	3
32		136681	Capscrew	1
33		320157	Washer	1
34		387892	Wire Assy	1
35		292681	Lockwasher	3
36		137852	Strap Clamp	1
37		322784	Silicone Grease	AR
38		196395	Clamp	2
39		302245	Screw	2
40		.....	Instrument Cluster	1
			☞ Figure 153	
41		1337197	Key Set	1
42		292680	Lockwasher	4
43		292500	Capscrew	4
44		1343597	Plug (Monotrol Pedal)	1
45		1351683	End Cap Connector (Monotrol Pedal)	1
46		1361121	Connector (Blade) (Forward/Reverse Lever)	1
47		1347004	Shift Lever Assy (Forward/Reverse Lever)	1
48		1343595	Switch Plate (Forward/Reverse Lever)	1
49		1343636	Switch (Forward/Reverse Lever)	4
50		220426	Screw (Forward/Reverse Lever)	8
51		53162	Lockwasher (Forward/Reverse Lever)	8
52		18419	Lockwasher (Forward/Reverse Lever)	8
53		16865	Nut (Forward/Reverse Lever)	8
54		292500	Capscrew (Forward/Reverse Lever)	4
55		262680	Lockwasher (Forward/Reverse Lever)	4
56		320156	Washer (Forward/Reverse Lever)	4
57		1352606	Clamp	1

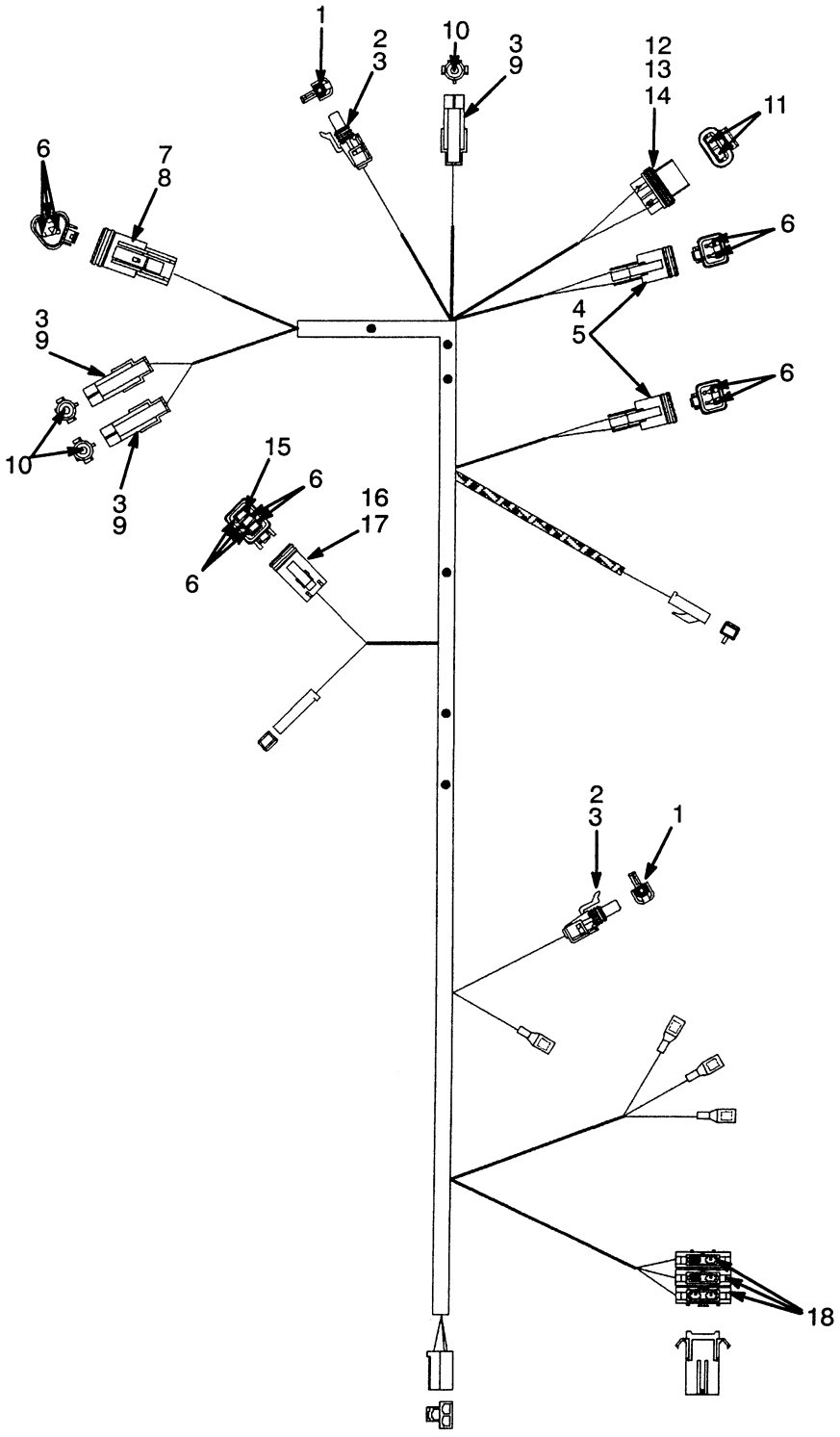
a Types GS, LPS, And DS

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HARNESS (Figure 105)

COWL

LAST USED ON S/N D177B-35854



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HARNESS

COWL

LAST USED ON S/N D177B-35854

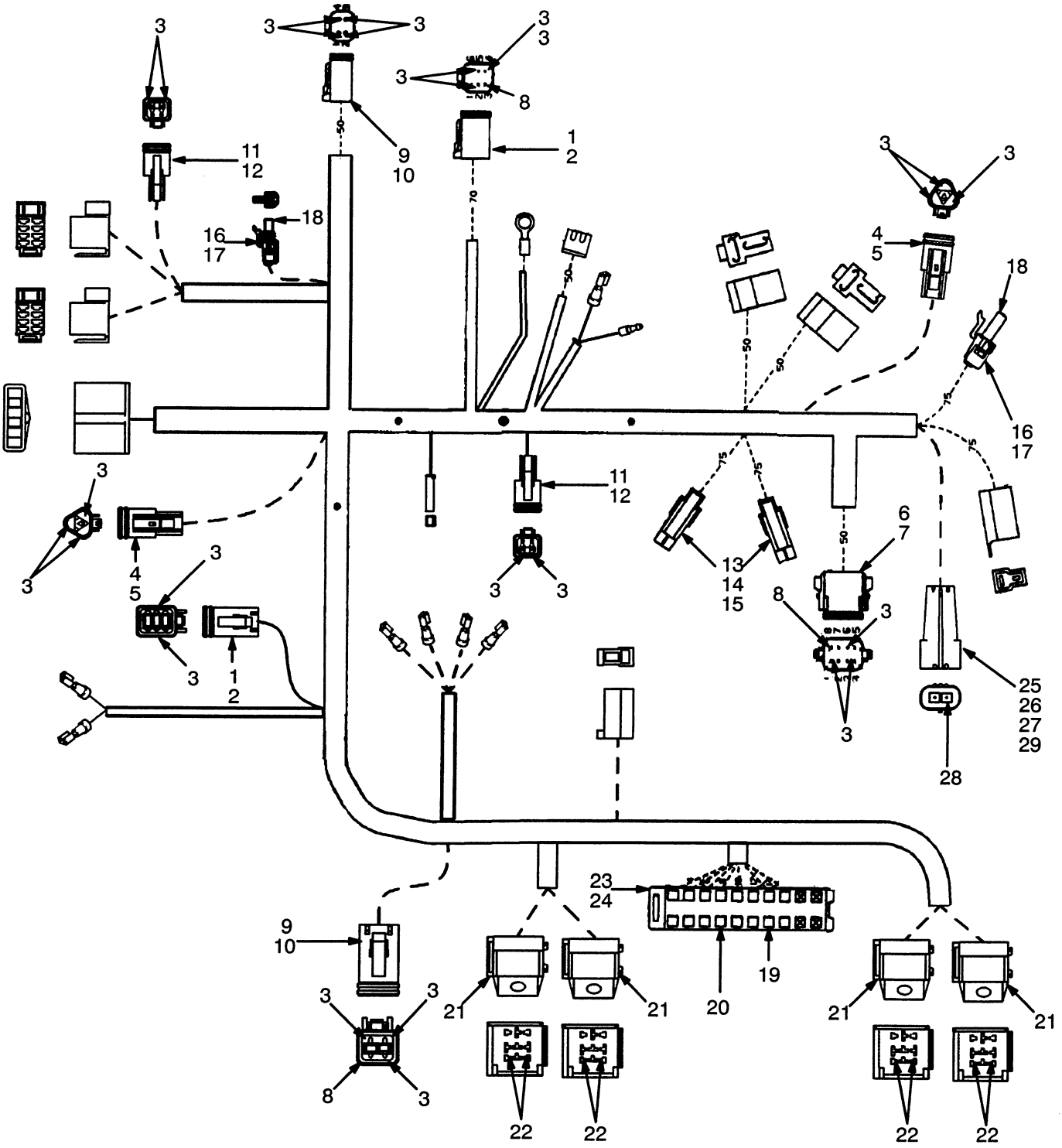
REF	PART NO.	NAME OF PART	QTY
	1347137	Harness-Cowl	1
1	1330299	Connector	2
2	1336173	Socket	2
3	1329147	Seal	5
4	1330419	Plug	2
5	1330424	Lock	2
6	1330434	Socket	12
7	1330420	Plug	1
8	1330426	Lock	1
9	1330298	Body	3
10	1334999	Pin	3
11	1337392	Terminal	2
12	1336870	Connector	1
13	1336871	Lock	1
14	1336874	Seal	1
15	1330439	Plug	1
16	1330422	Connector	1
17	1330428	Lock	1
18	381846	Fuse Holder	3

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HARNESS (Figure 106)

COWL

FIRST USED ON S/N D177B-35855



HARNESS

COWL

FIRST USED ON S/N D177B-35855

REF	PART NO.	NAME OF PART	QTY
	1376732	Harness-Cowl	1
1	1330422	Connector	2
2	1330428	Lock	2
3	1330438	Socket	35
4	1330420	Connector	2
5	1330426	Lock	2
6	1330423	Connector	1
7	1330429	Lock	1
8	1330439	Plug	3
9	1330421	Connector	2
10	1330427	Lock	2
11	1330419	Connector	2
12	1330424	Lock	2
13	1330298	Connector	2
14	1334999	Pin	2
15	1329147	Seal	2
16	1330299	Connector	2
17	1329147	Seal	2
18	1336173	Socket	2
19	1389479	Terminal	14
20	1389480	Terminal	2
21	1347224	Relay Socket	4
22	1331233	Terminal	18
23	1389476	Fuse Holder	1
24	1389477	Lock	1
25	1336870	Connector	1
26	1336871	Lock	1
27	1336874	Seal	1
28	1337393	Terminal	1
29	1323581	Plug	1

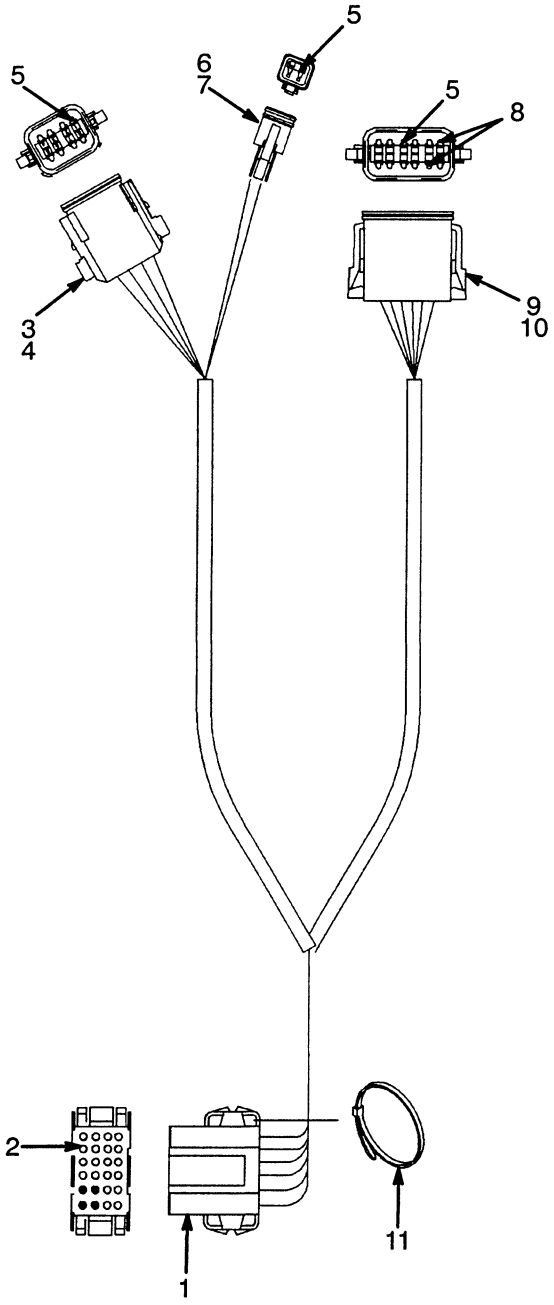
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HARNESS (Figure 107)

CLUSTER

LAST USED ON S/N D177B-35854



REF	PART NO.	NAME OF PART	QTY
	1352605	Harness-Cluster	1
1	1352599	Connector Body	1
2	1352600	Socket	20
3	1330413	Connector	1
4	1330418	Lock	1
5	1330433	Pin	20
6	1330409	Connector	1
7	1330414	Lock	1
8	1330439	Plug	2
9	1352602	Connector	1
10	1352603	Lock	1
11	1352606	Tie Strap	1

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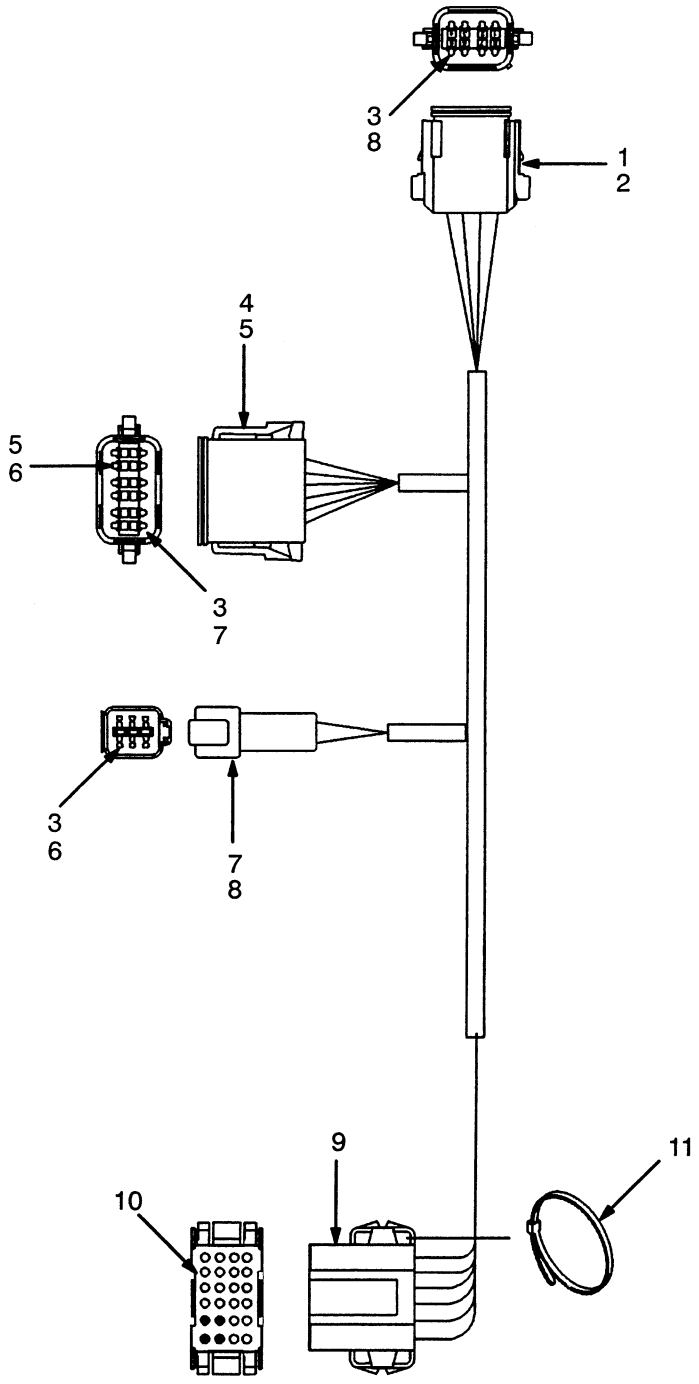
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HARNESS (Figure 108)

CLUSTER

FIRST USED ON S/N D177B-35855

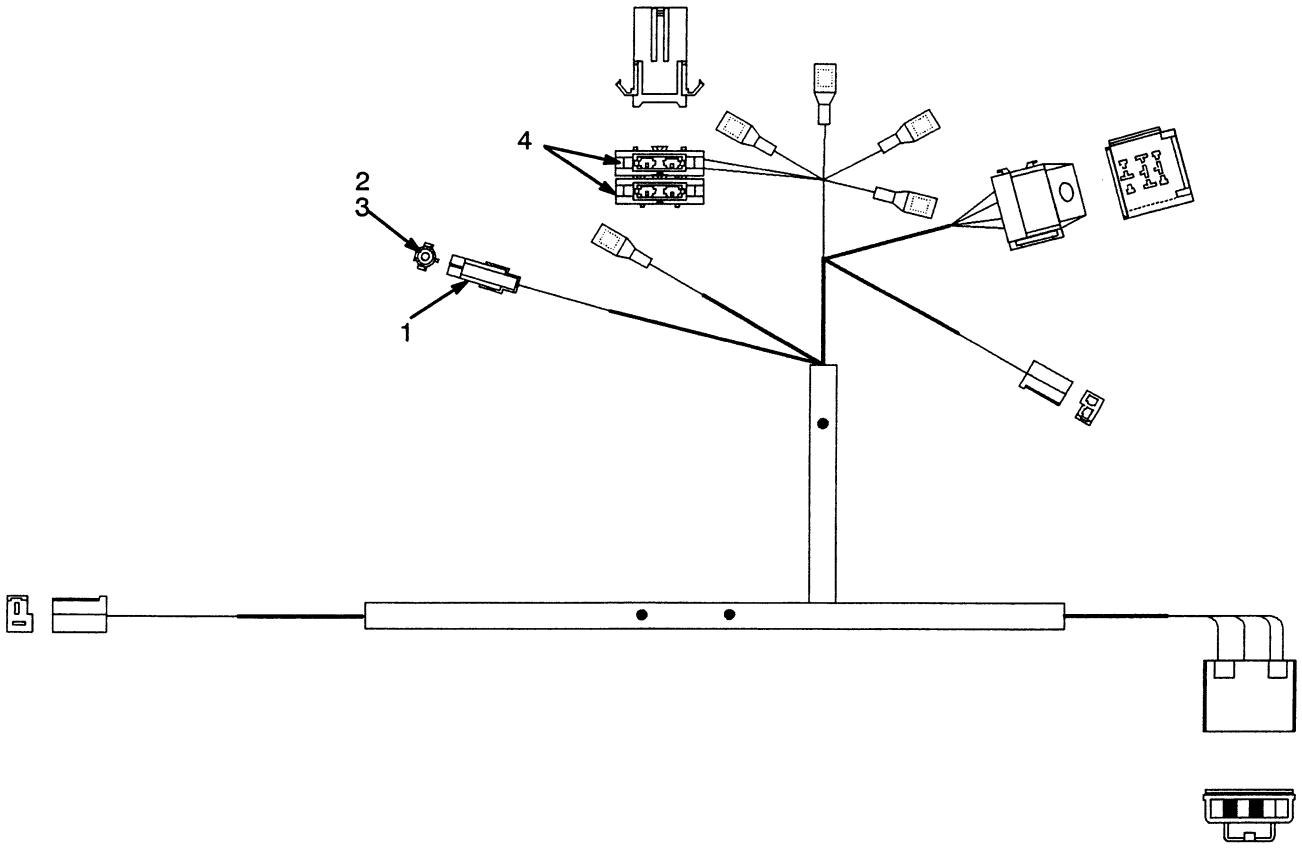


REF	PART NO.	NAME OF PART	QTY
	1375703	Harness-Cluster	1
1	1330413	Connector	1
2	1330418	Lock	1
3	1330433	Pin	21
4	1352602	Connector	1
5	1352603	Lock	1
6	1330439	Plug	5
7	1330412	Connector	1
8	1330417	Lock	1
9	1352599	Housing	1
10	1340958	Pin	20
11	1352606	Strap Clamp	1

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HARNESS (Figure 109)

CLUSTER POWER



REF	PART NO.	NAME OF PART	QTY
	1352617	Harness-Cluster Power	1
a	1450702	Harness-Cluster Power	1
a	1367472	Relay	1
1	1330298	Connector	1
2	1329147	Seal	1
3	1334999	Pin	1
4	381846	Fuse Holder	2

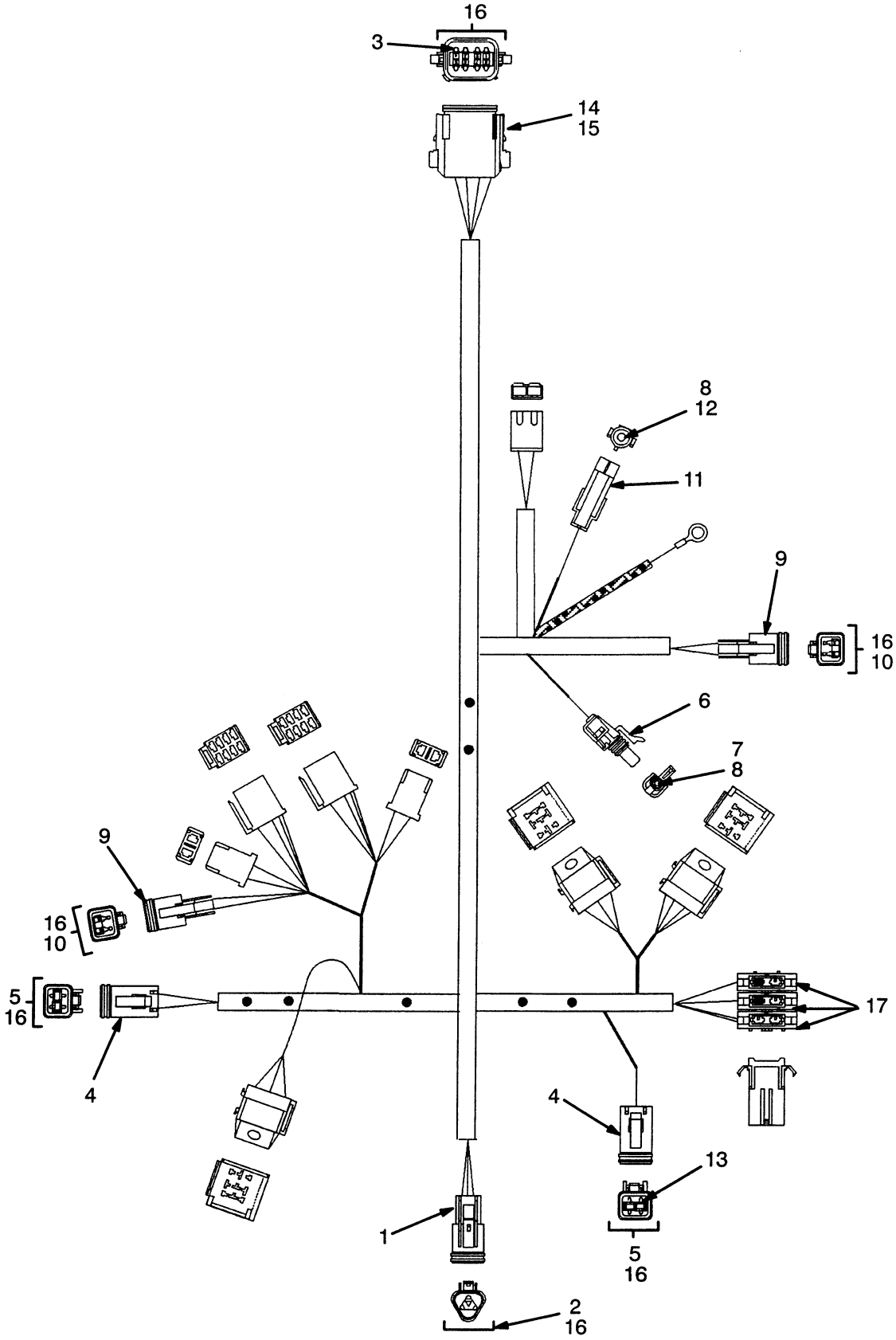
a Last Used On S/N D177B-35854

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HARNESS (Figure 110)
LIGHTING
LAST USED ON S/N D177B-35854



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HARNESS

LIGHTING

LAST USED ON S/N D177B-35854

REF	PART NO.	NAME OF PART	QTY
	1376590	Harness-Lighting	1
1	1330420	Plug	1
2	1330426	Lock	1
3	1330436	Socket	1
4	1330421	Connector	2
5	1330427	Lock	2
6	1330299	Connector	1
7	1336173	Socket	1
8	1329147	Seal	2
9	1330419	Connector	2
10	1330424	Lock	2
11	1330298	Connector	1
12	1334999	Pin	1
13	1330439	Plug	1
14	1330423	Connector	1
15	1330429	Lock	1
16	1330438	Socket	21
17	381846	Fuse Holder	3

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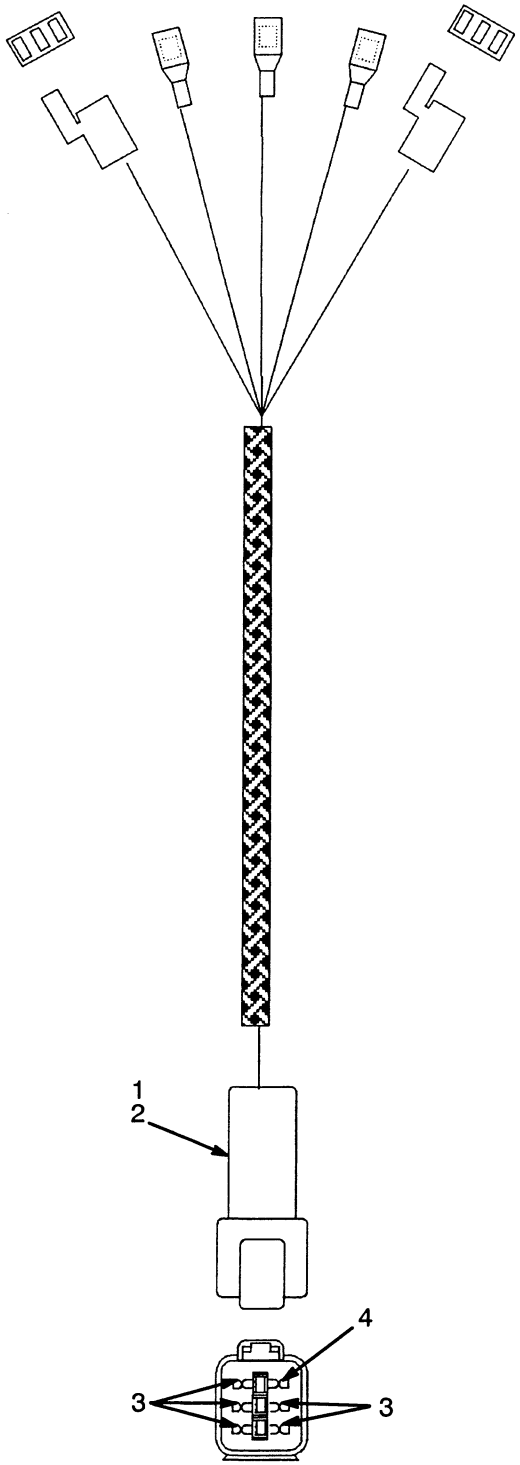
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HARNESS (Figure 111)

FORWARD AND REVERSE LEVER



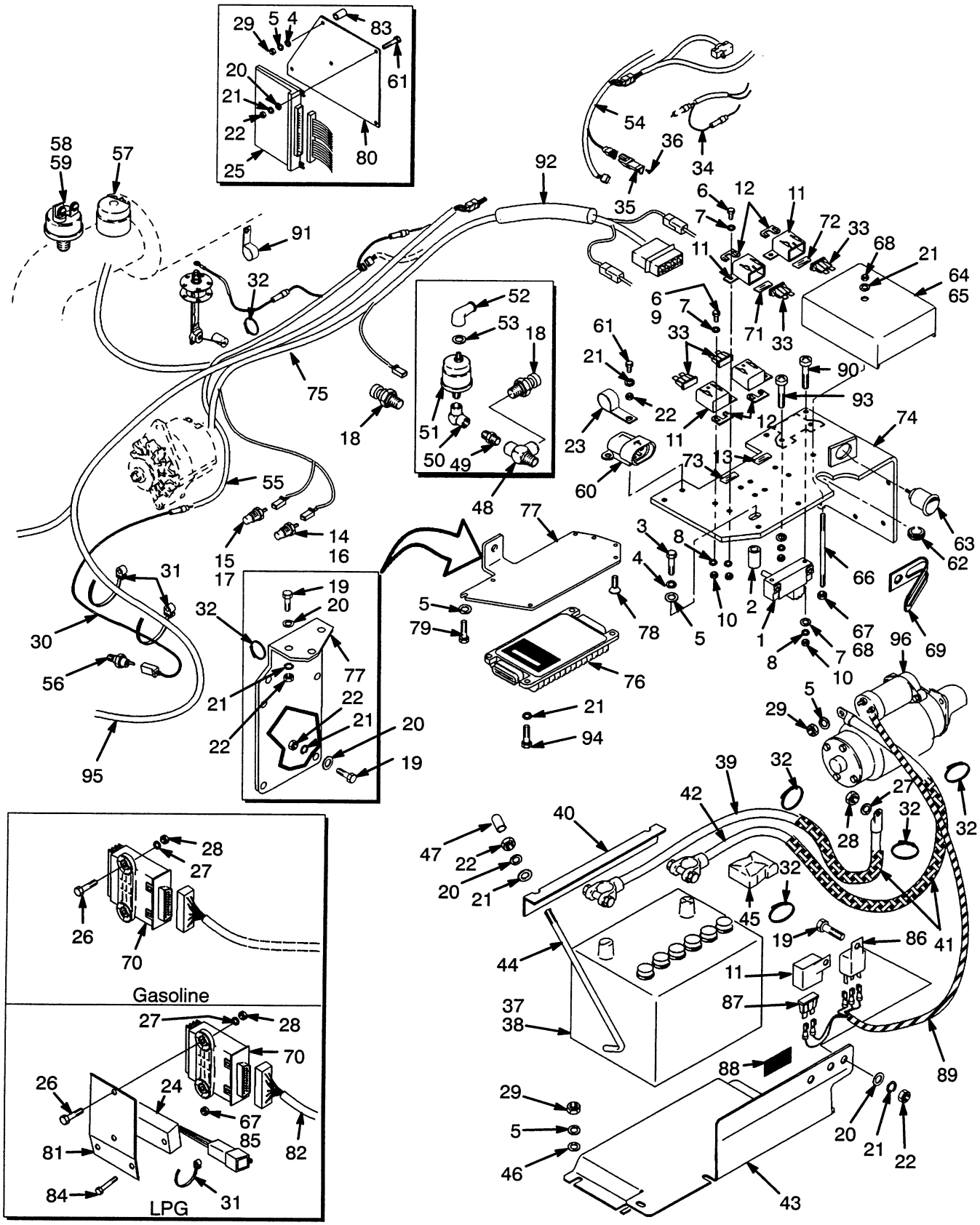
REF	PART NO.	NAME OF PART	QTY
	1352088	Harness-Fwd/Rev	1
1	1330412	Connector	1
2	1330417	Lock	1
3	1330435	Pin	5
4	1330439	Plug	1

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ELECTRICAL (Figure 112)

GASOLINE AND LPG 2.2L



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ELECTRICAL

GASOLINE AND LPG 2.2L

KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1314387	Sensor	1	1
2		1351059	Spacer	1	1
3		136704	Capscrew	1	1
4		320158	Washer	1	3
5		292681	Washer	7	7
6		16708	Screw	10	2
7		197067	Washer	12	4
8		15152	Washer	12	4
9		14503	Screw	2	2
10		15002	Nut	12	4
11		1330293	Fuse Cover	5	2
12		1339444	Clip	4	1
13		1352612	Label	1	1
14		.....	Coolant Sensor	1	1
			☞ Figure 27		
15		273338	Thread Sealant	AR	AR
16		.....	Reducer	1	1
			☞ Figure 27		
17		1319190	Temperature Sender	1	1
18		.....	Fuel Pump Switch	1	1
			☞ Figure 21		
19		292501	Capscrew	7	2
20		320156	Washer	8	8
21		292680	Lockwasher	10	8
22		136687	Nut	11	8
23		122175	Clamp	1	..
24		1354125	Rev Limiter	..	1
25		2035530	MSTS Controller	..	1
26		302250	Screw	2	2
27		292679	Washer	3	3
28		292668	Nut	3	3
29		239503	Nut	4	6
30		1354202	Low Coolant Harness	1	1
31		1356125	Clamp	2	2
32		273775	Strap Clamp	AR	AR
33		370647	Blade Fuse	4	1
34		1354385	Diode Harness	2	2
35		1330410	Connector Body	1	1
36		1330439	Plug	3	3
37	f	1383331	Wet Battery	1	1
37	ae	309153	Wet Battery	1	1
38	a	177894	Dry Battery	1	1
39		153933	Battery Cable	1	1
40		1354379	Battery Bracket	1	1
41		275499	Conduit	AR	AR
42		986236	Battery Cable	1	1
43		1458009	Battery Tray	1	1
44		309124	Battery Holddown Link	2	2
45		257241	Boot	1	1
46		320157	Washer	3	3
47		1326939	Cap	2	2
48	a	17216	Fitting	1	1
49	a	16167	Fitting	1	1
50	a	69392	Fitting	1	1
51	a	1356108	Oil Pressure Sender	1	1
52	a	190383	Boot	1	1
53	a	197067	Washer	1	1
54	b	1352066	Neutral Start Harness	1	1
55		.....	Chassis Harness	1	1
			☞ Figure 120		
56		1356105	Low Coolant Sender	1	1
57		1347067	Air Filter Sender	1	1
58		1351133	Low Pressure Switch	..	1
59		190383	Boot	..	2
60		1330301	Fuel Pump Relay	1	..
61		292500	Capscrew	2	3
62		279737	Grommet	1	..
63		.....	Power Connector	1	..
63		1369499	Power Connector	1	..
63		251099	Sealant	AR	..
64		1339434	Cover	1	..
65		1339459	Label	1	..
66		1368074	Stud	1	..
67		1368071	Adhesive	AR	AR
68		302399	Nut	2	..
69		2022013	Clamp	1	1
70		1327951	Governor Module	1	..
70		1352645	Governor Module	..	1

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ELECTRICAL

GASOLINE AND LPG 2.2L

(Figure 112 Continued)

KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
71		1354373	Label	1	..
72		1352178	Label	1	..
73		1339461	Label	1	..
74		1351094	Bracket	1	..
74		1351095	Bracket	..	1
75	c	.....	Engine Harness ☞ Figure 124	1	..
75	d	.....	Engine Harness ☞ Figure 124	1	..
75		.....	Engine Harness ☞ Figure 128	..	1
76		1376718	Control Module	1	..
76		1376719	Control Module (High Altitude)	1	..
77	c	1367462	Bracket	1	..
77	d	1368998	Bracket	1	..
78	c	296215	Capscrew	2	..
79		136749	Capscrew	2	..
80		1367474	Bracket	..	1
81		1356313	Plate	..	1
82		1352625	Governor Harness	..	1
83		376505	Spacer	..	2
84		302027	Screw	..	2
85		292667	Nut	..	2
86		1367472	Relay (70A)	1	1
87		1320669	Fuse (30A)	1	1
88		1367640	Label	1	1
89		1367473	Harness	1	1
90		16704	Screw	2	2
91		136516	Clamp	1	..
92		275497	Conduit	AR	..
92		275496	Conduit	..	AR
93		220318	Screw	2	..
94	c	287817	Screw	4	..
95		1359624	Light Harness (Chassis)	1	1
96	g	.....	Starter Motor ☞ Figure 151	1	1
96	h	.....	Starter Motor ☞ Figure 151	1	1

a Optional
b Monotrol Pedal
c Last Used On S/N D177B-6045
d First Used On S/N D177B-6046
e Last Used On S/N D177B-22587
f First Used On S/N D177B-22588
g Last Used On S/N Pending Per ECN 72863
h First Used On S/N Pending Per ECN 72863

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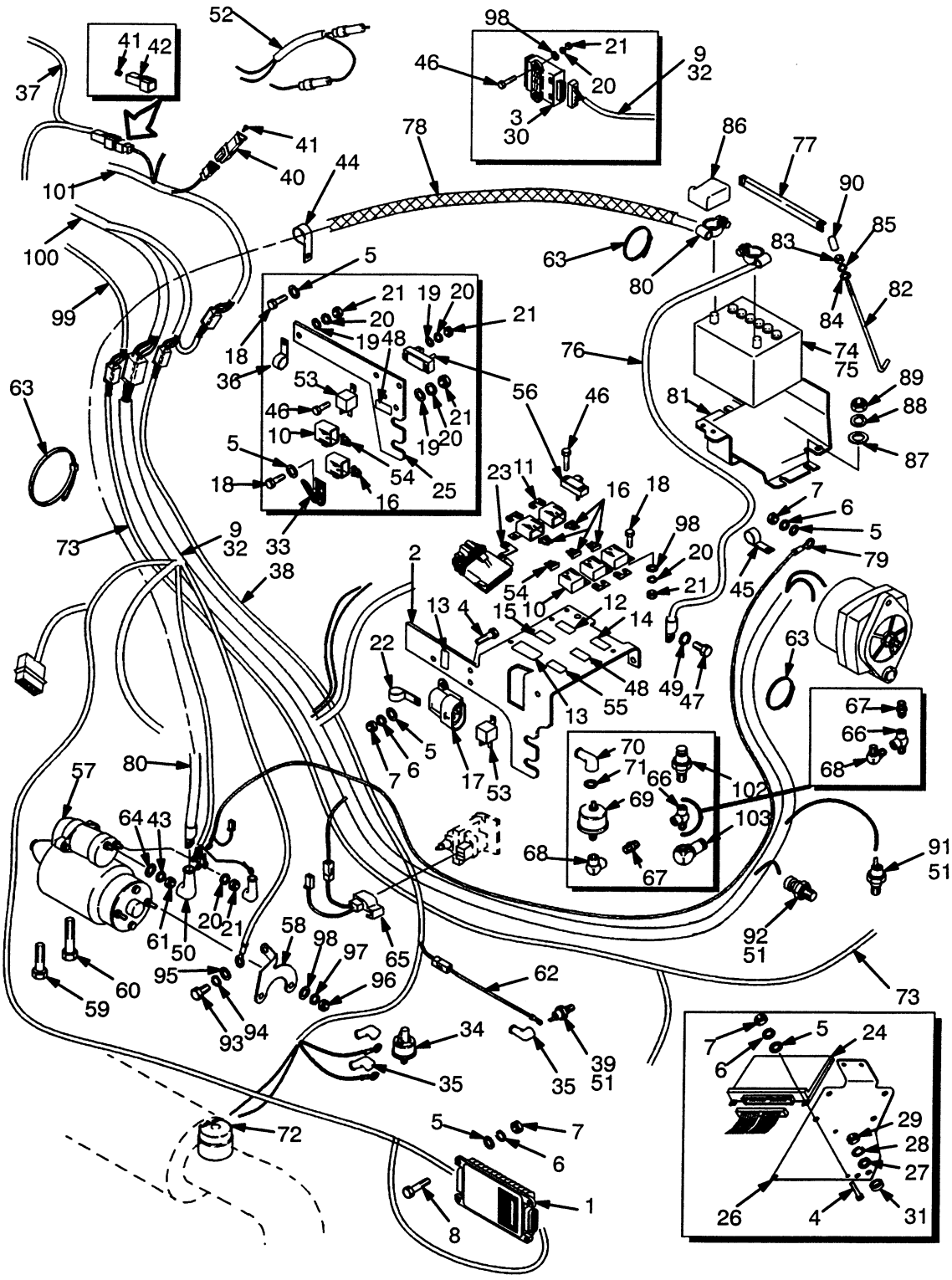
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ELECTRICAL (Figure 113)

GASOLINE AND LPG 3.0L

LAST USED ON S/N D177B-35854



ELECTRICAL

GASOLINE AND LPG 3.0L

LAST USED ON S/N D177B-35854

KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1376712	Control Module	1	..
1	d	1376713	Control Module (Low Noise)	1	..
2		1375787	Bracket	1	..
3		1327951	Governor Module	1	..
4		292500	Capscrew	3	3
5		320156	Washer	8	7
6		292680	Lockwasher	8	4
7		136687	Nut	8	4
8		292503	Capscrew	4	..
9		.....	Engine Harness	1	..
			☞ Figure 126		
10		1330293	Fuse Holder	5	2
11		1339444	Clip	4	..
12		1339461	Label	1	..
13		1339459	Label	1	..
14		1352178	Label	1	..
15		1354373	Label	1	..
16		370647	Fuse (10 Amp)	4	1
17		1330301	Relay (Fuel Pump)	1	..
18		302246	Screw	7	3
19		320155	Washer	5	1
20		292679	Lockwasher	12	8
21		292668	Nut	12	8
22		101625	Clamp	1	..
23		1376661	Clip	1	..
24		2035531	MSTS Controller	..	1
25		1375847	Bracket	..	1
26		1376655	Bracket	..	1
27		320158	Washer	..	3
28		292681	Lockwasher	..	3
29		239503	Nut	..	3
30		1352645	Governor Module	..	1
30	d	1376706	Governor Module (Low Noise)	..	1
31		1375848	Spacer	..	3
32		.....	Engine Harness	..	1
			☞ Figure 129		
33		1360146	Clamp	..	3
34		1351133	Low Pressure Switch	..	1
35		190383	Boot	1	3
36		101625	Clamp	..	1
37	a	1352066	Neutral Start Harness	1	1
38		1351083	Chassis Wire Harness	1	1
39		1356105	Low Coolant Sender	1	1
40	c	1330410	Connector	1	1
41	c	1330439	Plug	5	5
42	c	1330409	Connector	1	1
43		292681	Lockwasher	1	1
44		325897	Clamp	1	1
45		122175	Clamp	1	1
46		302250	Screw	4	4
47		18535	Capscrew	1	1
48		1352612	Label	1	1
49		15156	Lockwasher	1	1
50		204223	Boot	1	1
51		273338	Sealant	AR	AR
52		1354385	Diode Harness	2	2
53		1375844	Relay (60 Amp)	1	1
54		1320669	Fuse (30 Amp)	1	1
55		1367640	Label	1	1
56		1314387	Sensor	1	1
57		.....	Starter	1	1
			☞ Figure 151		
58		1375135	Bracket	1	1
59		1375157	Capscrew	1	1
60		1375158	Capscrew	1	1
61		239503	Nut	1	1
62		1354201	Harness	1	1
63		273775	Strap Clamp	AR	AR
64		320157	Washer	1	1
65		1314392	Wire Assy	1	1
66	b	17216	Fitting	1	1
67	bg	16167	Fitting	1	1
67	bh	16187	Fitting	1	1
68	bg	69392	Fitting	1	1
68	bh	17314	Fitting	1	1
69	b	1356108	Oil Pressure Switch	1	1

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ELECTRICAL

GASOLINE AND LPG 3.0L

LAST USED ON S/N D177B-35854

(Figure 113 Continued)

KEY:
A: Gasoline
B: LPG

REF		PART NO.	NAME OF PART	QTY A	QTY B
70	b	190383	Boot	1	1
71	b	197067	Washer	1	1
72	b	1347067	Air Filter Sender	1	1
73		1359624	Light Harness (Chassis)	1	1
74	f	1383331	Battery (Wet)	1	1
74	be	309153	Battery (Wet)	1	1
75	b	177894	Battery (Dry)	1	1
76		267530	Battery Cable	1	1
77		1354379	Plate	1	1
78		275496	Conduit	AR	AR
79		1376612	Harness (Starter Alternator)	1	1
80		119388	Battery Cable	1	1
81		1458009	Battery Tray	1	1
82		309124	Link	2	2
83		136687	Nut	2	2
84		18500	Washer	2	2
85		292680	Lockwasher	2	2
86		257241	Boot	1	1
87		320158	Washer	3	3
88		292681	Lockwasher	3	3
89		239503	Nut	3	3
90		1326939	Cap	2	2
91		1319190	Temperature Sender	1	1
92		1314381	Coolant Sensor	1	1
93		18496	Capscrew	1	1
94		15155	Lockwasher	1	1
95		18515	Washer	1	1
96		15052	Nut	2	2
97		15152	Lockwasher	2	2
98		197067	Washer	8	8
99		.....	Light Harness (Cowl) ☞ Figure 103	1	1
100		.....	Cluster Harness ☞ Figure 107	1	1
101		.....	Cluster Power Harness ☞ Figure 109	1	1
102		1375878	Oil Pressure Switch	1	1
103		1376767	Fitting	1	1

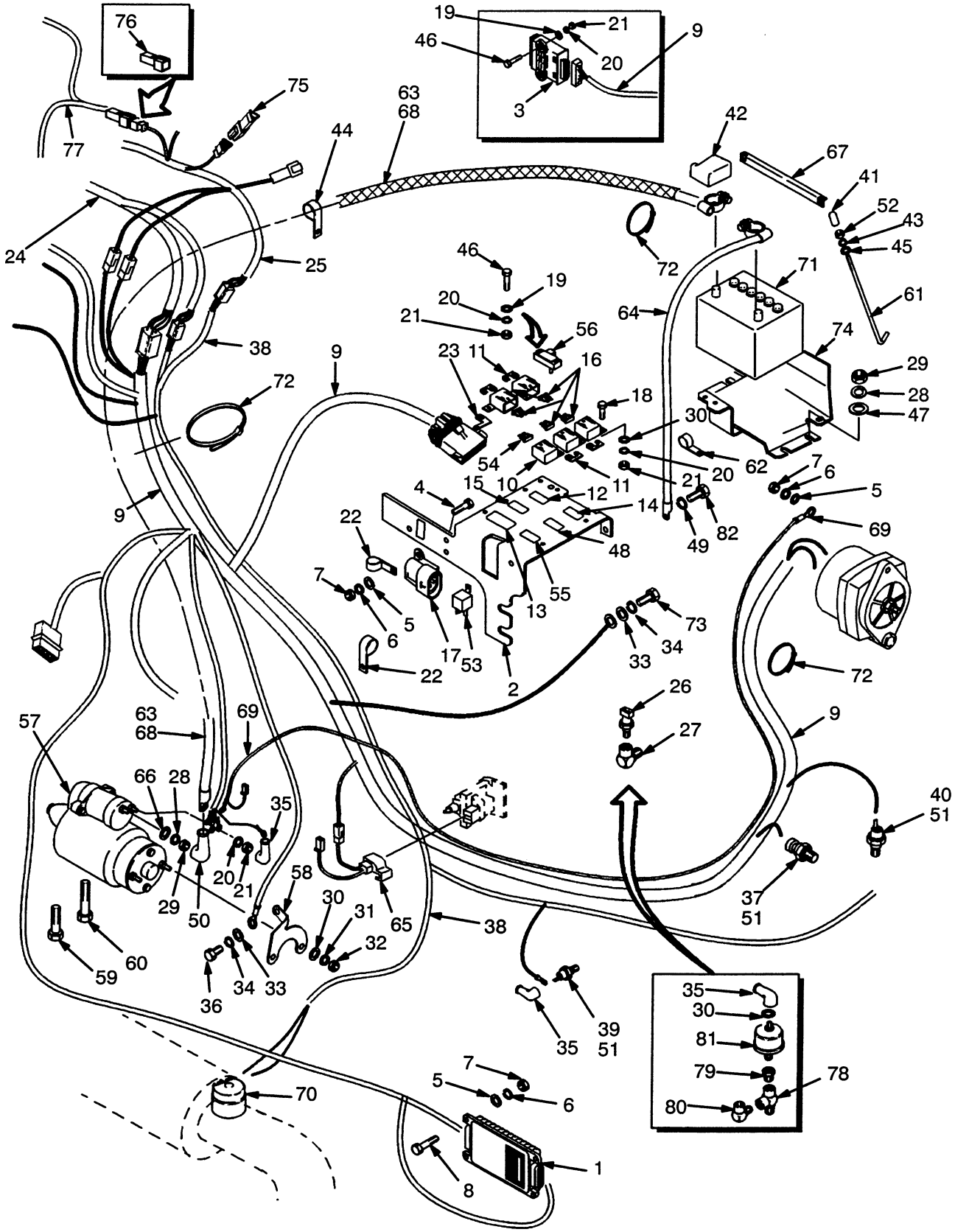
a Monotrol Pedal
b Optional
c Forward/Reverse Lever
d D177B-20580
e Last Used On S/N D177B-22587
f First Used On S/N D177B-22588
g Last Used On S/N D177B-20579
h First Used On S/N D177B-20580

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NOTES

ELECTRICAL (Figure 114)
GM 3.0L GASOLINE
FIRST USED ON S/N D177B-35855



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ELECTRICAL

GM 3.0L GASOLINE

FIRST USED ON S/N D177B-35855

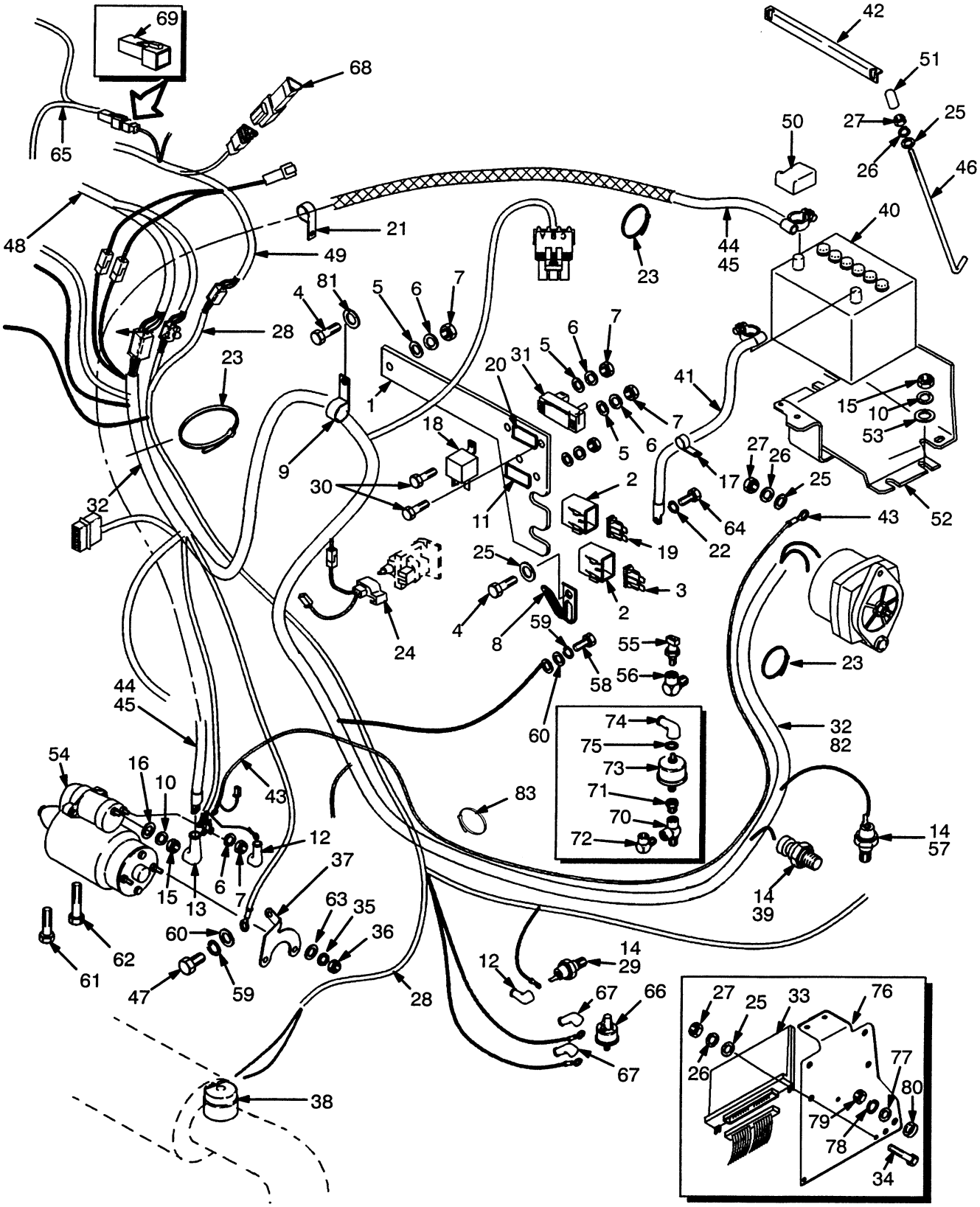
REF	PART NO.	NAME OF PART	QTY
1	1376712	Control Module	1
1	1376713	Control Module (Low Noise)	1
2	1375787	Bracket	1
3	1327951	Governor Module	1
4	292500	Capscrew	3
5	320156	Washer	8
6	292680	Lockwasher	8
7	136687	Nut	8
8	287844	Capscrew	4
9	.....	Harness-Engine	1
		☞ Figure 127	
10	1330293	Fuse Holder	5
11	1339444	Clip	4
12	1339461	Label	1
13	1339459	Label	1
14	1352178	Label	1
15	1354373	Label	1
16	370647	Fuse (10 Amp)	4
17	1330301	Relay (Fuel Pump)	1
18	302246	Screw	6
19	320155	Washer	4
20	292679	Lockwasher	11
21	292668	Nut	11
22	101625	Clamp	2
23	1376661	Clip	1
24	.....	Harness-Cluster	1
		☞ Figure 108	
25	.....	Harness-Cowl	1
		☞ Figure 106	
26	1375878	Oil Pressure Switch	1
27	1376767	Fitting	1
28	292681	Lockwasher	4
29	239503	Nut	4
30	197067	Washer	7
31	15152	Lockwasher	2
32	15052	Nut	2
33	18515	Washer	2
34	15155	Lockwasher	2
35	190383	Boot	2
36	2033592	Capscrew	1
37	1314381	Coolant Sensor	1
38	.....	Harness-Chassis	1
		☞ Figure 121	
39	1356105	Low Coolant Sender	1
40	1319190	Temperature Sender	1
41	1326939	Cap	2
42	257241	Boot	1
43	292680	Lockwasher	2
44	325897	Clamp	1
45	320156	Washer	2
46	302250	Screw	4
47	320158	Washer	3
48	1352612	Label	1
49	15156	Lockwasher	1
50	204223	Boot	1
51	273338	Sealant	AR
52	136687	Nut	2
53	1375844	Relay (60 Amp)	1
54	1320669	Fuse (30 Amp)	1
55	1367640	Label	1
56	1314387	MAP Sensor	1
57	.....	Starter	1
		☞ Figure 151	
58	1375135	Bracket	1
59	1375157	Capscrew	1
60	1375158	Capscrew	1
61	309124	Link	2
62	122175	Clamp	1
63	119388	Battery Cable (+)	1
64	1379481	Battery Cable (-)	1
65	1314392	Wire Assembly	1
66	320157	Washer	1
67	1354379	Battery Hold Down	1
68	275496	Conduit	AR
69	1385863	Harness-Starter/Alternator	1
70	1347067	Air Filter Sender (Optional)	1
71	1383331	Battery (Wet)	1
72	129563	Strap Clamp	AR
73	16836	Capscrew	1
74	1458009	Tray	1
75	1351682	End Cap Connector (Forward/Reverse Lever)	1
76	1351681	End Cap Connector (Forward/Reverse Lever)	1
77	1352066	Harness-Neutral Start (Monotrol Pedal)	1
78	17216	Fitting (Optional)	1
79	16187	Fitting (Optional)	1
80	17314	Fitting (Optional)	1
81	1356108	Oil Pressure Sender (Optional)	1
82	18535	Capscrew	2

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ELECTRICAL (Figure 115)

GM 3.0L LPG

FIRST USED ON S/N D177B-35855



ELECTRICAL

GM 3.0L LPG

FIRST USED ON S/N D177B-35855

REF	PART NO.	NAME OF PART	QTY
1	1375847	Bracket	1
2	1330293	Fuse Holder	2
3	370647	Fuse (10 Amp)	1
4	302246	Screw	3
5	320155	Washer	2
6	292679	Lockwasher	6
7	292668	Nut	6
8	1360146	Clamp	2
9	136516	Clamp (Without MSTS)	1
9	89220	Clamp (With MSTS)	1
10	292681	Lockwasher	4
11	1352612	Label	1
12	190383	Boot	2
13	204223	Boot	1
14	273338	Sealant	AR
15	239503	Nut	4
16	320157	Washer	1
17	122175	Clamp	1
18	1375844	Relay (60 Amp)	1
19	1320669	Fuse (30 Amp)	1
20	1367640	Label	1
21	325897	Clamp	1
22	15156	Lockwasher	1
23	129563	Strap Clamp	AR
24	1314392	Wire Assembly	1
25	320156	Washer	3
26	292680	Lockwasher	6
27	136687	Nut	6
28	.....	Harness-Chassis	1
		☞ Figure 121	
29	1356105	Low Coolant Sender	1
30	302250	Screw (With MSTS)	2
30	302245	Screw (Without MSTS)	2
31	1314387	MAP Sensor (With MSTS)	1
32	.....	Harness-LPG Engine (With MSTS)	1
33	1460824	MSTS Controller Assembly	1
33	1460764	MSTS Controller	1
33	1459037	Label	1
34	292501	Capscrew	3
35	15152	Lockwasher	2
36	15052	Nut	2
37 a	1375135	Bracket	1
37 b	1457120	Bracket	1
38	1347067	Air Filter Sender (Optional)	1
39	14386	Plug (Without MSTS)	1
39	1314381	Coolant Sensor (With MSTS)	1
40	1383331	Battery (Wet)	1
41	1379481	Battery Cable (-)	1
42	1354379	Battery Hold Down	1
43	1385863	Harness-Starter/Alternator	1
44	119388	Battery Cable (+)	1
45	275496	Conduit	AR
46	309124	Link	2
47	18496	Capscrew	1
48	.....	Harness-Cluster	1
		☞ Figure 108	
49	.....	Harness-Cowl	1
		☞ Figure 106	
50	257241	Boot	1
51	1326939	Cap	2
52	1458009	Tray	1
53	320158	Washer	3
54 a	.....	Starter	1
		☞ Figure 151	
54 b	.....	Starter	1
		☞ Figure 151	
55	1375878	Oil Pressure Switch	1
56	1376767	Fitting	1
57	1319190	Temperature Sender	1
58	16836	Capscrew	1
59	15155	Lockwasher	2

CONTINUED ON NEXT PAGE

ELECTRICAL

GM 3.0L LPG

FIRST USED ON S/N D177B-35855

REF	PART NO.	NAME OF PART	QTY
60	18515	Washer	2
61	1375157	Capscrew	1
62	1375158	Capscrew	1
63	197067	Washer	2
64	18535	Capscrew	1
65	1352066	Harness-Neutral Start (Monotrol Pedal)	1
66	1351133	Pressure Switch	1
67	190383	Boot	1
68	1351682	End Cap Connector (Forward/Reverse Lever)	1
69	1351681	End Cap Connector (Forward/Reverse Lever)	1
70	17216	Fitting (Optional)	1
71	16187	Fitting (Optional)	1
72	17314	Fitting (Optional)	1
73	1356108	Oil Pressure Sender (Optional)	1
74	190383	Boot	1
75	197067	Washer	1
76	1376655	Bracket	1
77	320158	Washer	3
78	292681	Lockwasher	3
79	239503	Nut	3
80	1375848	Spacer	3
81	197067	Washer	3
82	275498	Conduit	1
83	114312	Strap Clamp	AR

a Last Used On S/N Pending Per ECN 72863

b First Used On S/N Pending Per ECN 72863

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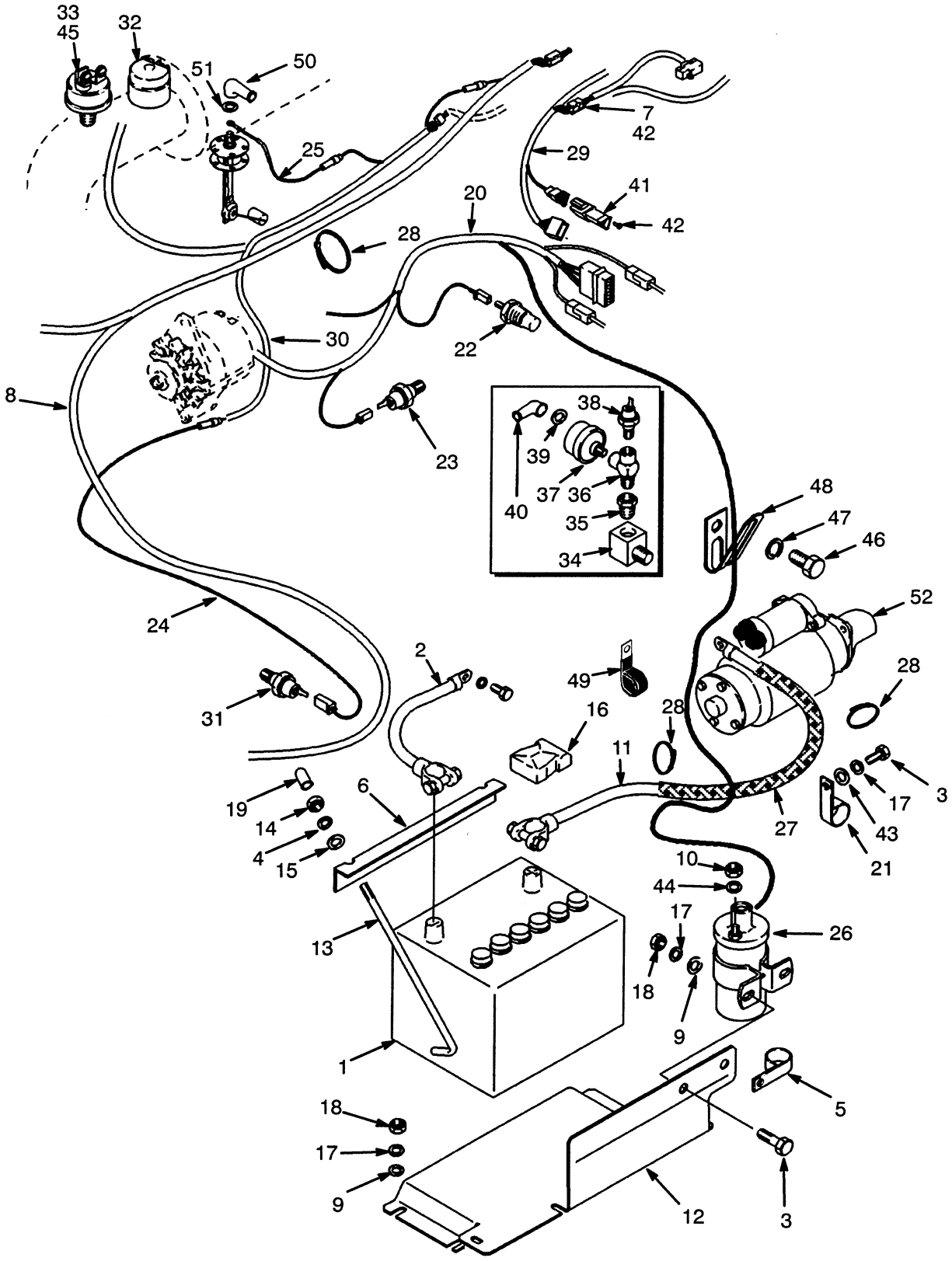
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NOTES

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ELECTRICAL (Figure 116)

GASOLINE AND LPG 2.0L



ELECTRICAL

GASOLINE AND LPG 2.0L

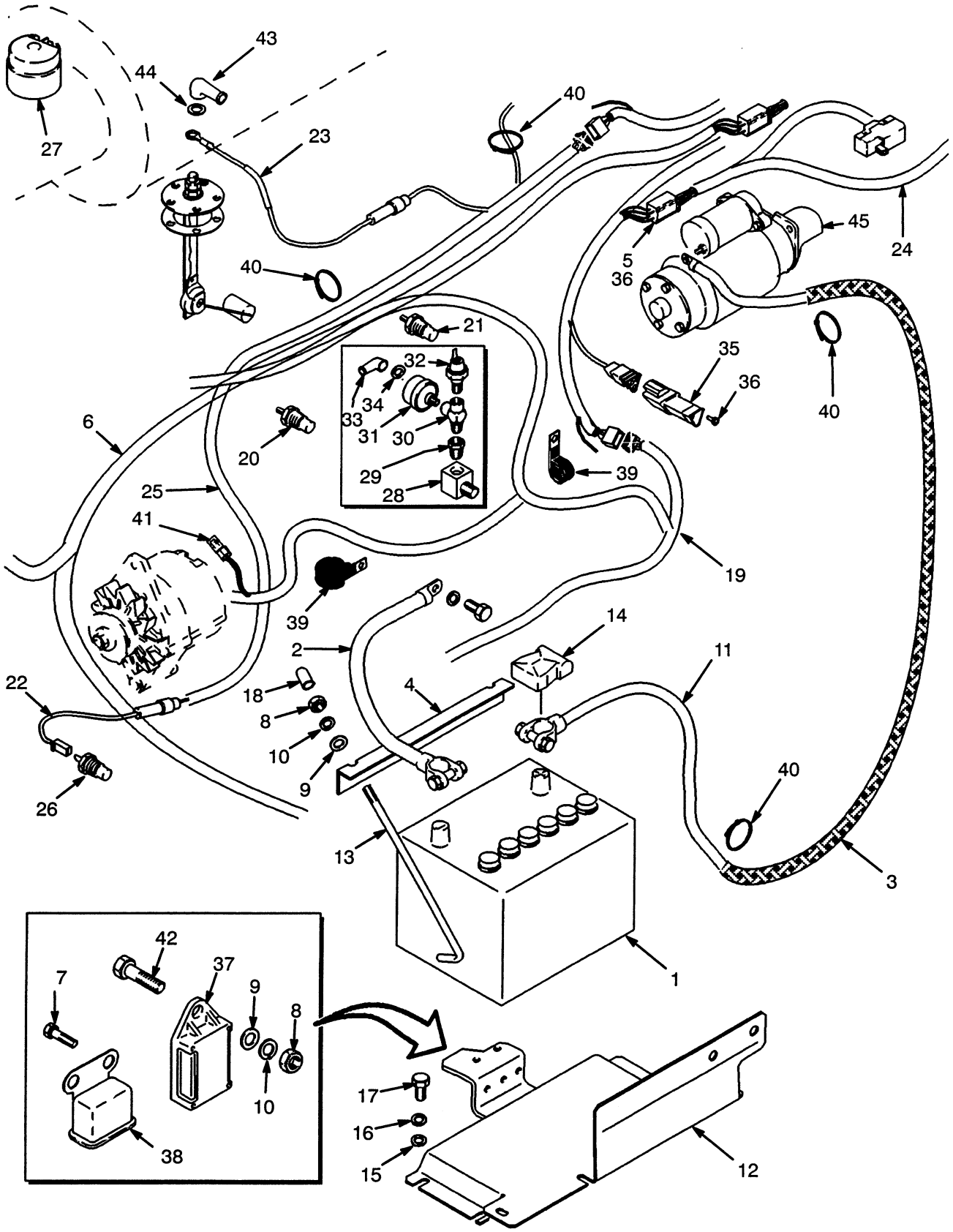
REF		PART NO.	NAME OF PART	QTY
1	ak	309153	Wet Battery	1
1	m	1383331	Wet Battery	1
1	a	177894	Dry Battery	1
2		153931	Battery Cable	1
3	d	136681	Capscrew	4
3	e	136681	Capscrew	2
4		292680	Washer	2
5	d	1310611	Clamp	1
6		1354379	Battery Bracket	1
7	hp	1351681	Connector Body	1
7	hn	1330409	Connector Body	1
8	n	1359624	Harness-Chassis Lighting	1
9		320158	Washer	3
10		292668	Nut	2
11		1450104	Battery Cable	1
12		1458009	Battery Tray	1
13		309124	Battery Holddown Link	2
14		136687	Nut	2
15		18500	Washer	2
16		257241	Boot	1
17	d	292681	Washer	7
17	e	292681	Washer	5
18		239503	Nut	5
19		1326939	Cap	2
20	b	1352069	Engine Harness	1
20	r	.....	Engine Harness ☞ Figure 122	1
20	p	.....	Engine Harness ☞ Figure 123	1
21	d	176910	Clamp	2
21	e	128408	Clamp	1
22		1360086	Oil Pressure Switch	1
22	a	2026608	Oil Pressure Switch	1
23	b	1361140	Temperature Sender	1
23	c	1367633	Temperature Sender	1
24	n	1354202	Coolant Level Harness	1
25		1356131	Fuel Probe Harness (Gas)	1
26		1324278	Ignition Coil	1
27	d	275496	Conduit (22.5 in)	1
27	e	275496	Conduit (51 in)	1
28		273775	Strap Clamp	AR
29	f	1352066	Neutral Start Harness	1
30	n	.....	Chassis Harness ☞ Figure 120	1
30	p	.....	Chassis Harness ☞ Figure 121	1
31		1356105	Low Coolant Sender	1
32		1347067	Air Filter Sender	1
33	g	1351133	Low Pressure Switch	1
34	a	16151	Fitting	1
35	a	367224	Adapter	1
36	a	16186	Fitting	1
37	a	1356108	Oil Pressure Sender	1
38	a	1368983	Oil Pressure Switch	1
39	a	18500	Washer	1
40	a	190383	Boot	1
41	hp	1351682	Connector Body	1
41	hn	1330410	Connector Body	1
42	hn	1330439	Cavity Plug	5
43	d	296418	Washer	2
44		292679	Washer	2
45		190383	Boot	2
46	s	148962	Capscrew	2
47	e	18500	Washer	1
48	s	2022013	Clamp	3
49		1360146	Clamp	2
50		190383	Boot	1
51		18500	Washer	1
52		.....	Starter Motor ☞ Figure 149	1

a	Optional
b	Last Used On S/N D177B-15834
c	First Used On S/N D177B-15835
d	Last Used On S/N D177B-6401
e	First Used On S/N D177B-6402
f	Monotrol Pedal
g	LPG
h	Forward/Reverse Lever
k	Last Used On S/N D177B-22587
n	Last Used On S/N D177B-35854
p	First Used On S/N D177B-35855
r	Used On S/N D177B-15835 Thru D117B-35854
s	Used On S/N D177B-6402 Thru D177B-35854

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ELECTRICAL (Figure 117)

DIESEL



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ELECTRICAL

DIESEL

KEY:
A: 2.4L
B: 2.8L
C: 3.1L

REF		PART NO.	NAME OF PART	QTY A	B	C
1	a	1377998	Wet Battery	1	1	1
2		153931	Battery Cable	1	1	1
3		275496	Conduit	AR	AR	AR
4		1354379	Battery Hold Down	1	1	1
5	ce	1351681	Connector Body	1	1	1
5	cd	1330409	Connector Body	1	1	1
6	d	1359624	Harness-Chassis Lighting	1	1	1
7		292501	Capscrew	3	3	3
8		136687	Nut	5	5	5
9		320156	Washer	3	3	3
10		292680	Washer	5	5	5
11		153932	Battery Cable	1	1	1
12		1458009	Battery Tray	1	1	1
13		309124	Battery Holddown Link	2	2	2
14		257241	Boot	1	1	1
15		320158	Washer	3	3	3
16		292681	Washer	3	3	3
17		239503	Nut	3	3	3
18		1326939	Cap	2	2	2
19	d	.....	Engine Harness	1	1	1
			☞ Figure 118			
19	e	.....	Engine Harness	1	1	1
			☞ Figure 119			
20		1320939	Water Temperature Sender	1	1	1
21		1360086	Oil Pressure Switch	1	1	1
21		2026608	Oil Pressure Switch	1	1	1
22	d	1354201	Low Coolant Harness	1	1	1
23		1356131	Fuel Probe Harness	1	1	1
24	b	1352066	Neutral Start Harness	1	1	1
25	d	.....	Chassis Harness	1	1	1
			☞ Figure 120			
25	e	.....	Chassis Harness	1	1	1
			☞ Figure 121			
26		1356105	Low Coolant Sender	1	1	1
27		1347067	Air Filter Restricted Sender	1	1	1
28	a	324740	Connector	1	1	1
29	a	367224	Adapter	1	1	1
30	a	16186	Fitting	1	1	1
31	a	1356108	Oil Pressure Sender	1	1	1
32	a	366687	Oil Pressure Switch	1	1	1
33	a	190383	Boot	1	1	1
34		18500	Washer	2	2	2
35	ce	1351682	Connector Body	1	1	1
35	cd	1330410	Connector Body	1	1	1
36	cd	1330439	Cavity Plug	5	5	5
37		1347121	Relay Timer	1	..	1
37		1350200	Relay Timer	..	1	..
38		1347122	Glow Plug Relay	1	1	1
39		1360146	Clamp	3	2	2
40		273775	Strap Clamp	AR	AR	AR
41		1361305	Diode	1	1	1
42		287816	Capscrew	1	1	1
43		190383	Boot	1	1	1
44		18500	Washer	1	1	1
45		.....	Starter Motor	1	1	1
			☞Figure 149			

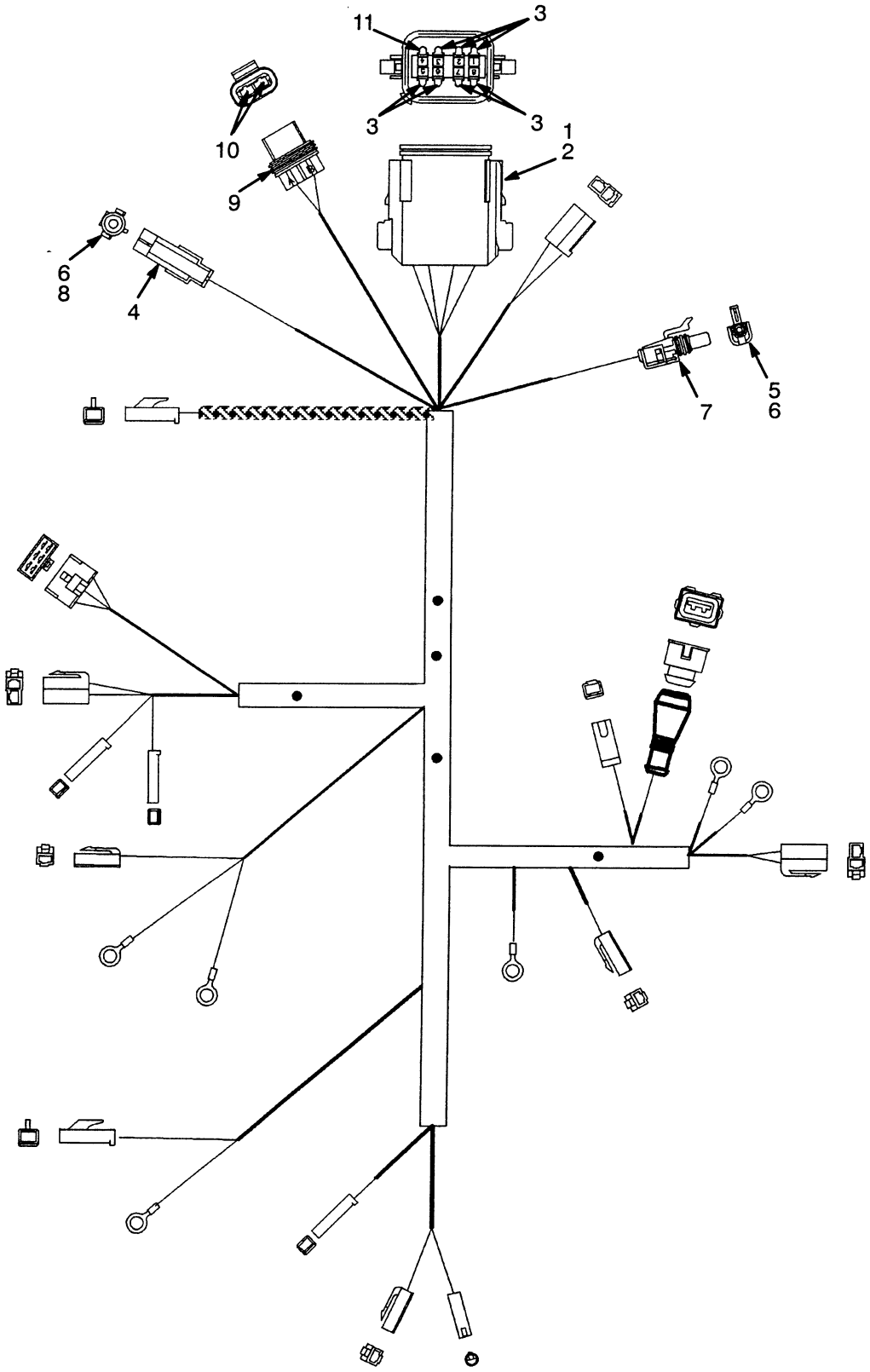
a Optional
b Monotrol Pedal
c Forward/Reverse Lever
d Last Used On S/N D177B-35854
e First Used On S/N D177B-35855

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HARNESS (Figure 118)

DIESEL

LAST USED ON S/N D177B-35854



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HARNESS

DIESEL

LAST USED ON S/N D177B-35854

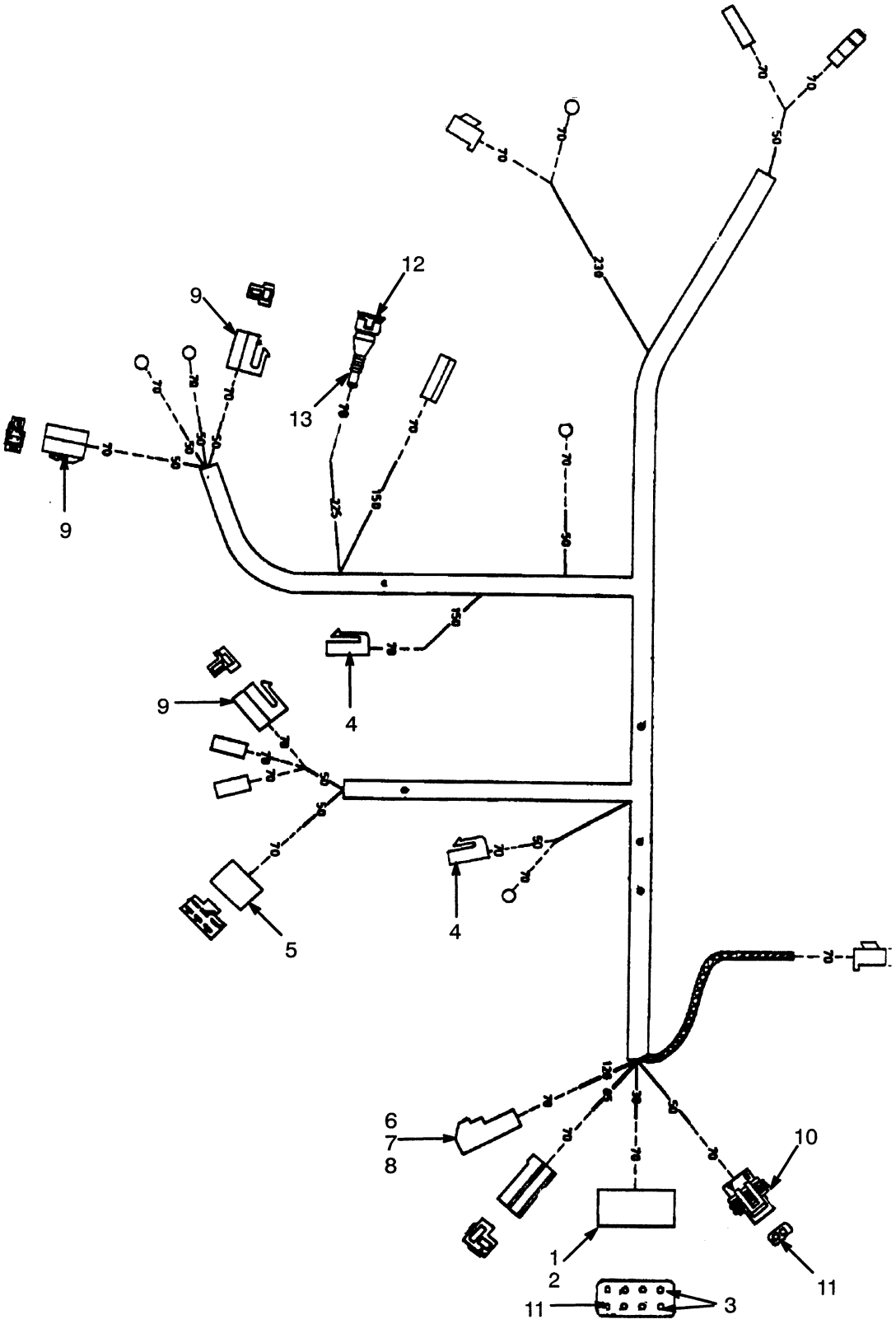
REF	PART NO.	NAME OF PART	QTY
	1352558	Engine Harness	1
1	1330423	Connector Body	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1330299	Connector Body	1
5	1334999	Pin	1
6	1329147	Seal	2
7	1330298	Connector Body (Starter)	1
8	1336173	Socket	1
9	1329152	Connector Body	1
10	1329148	Terminal	2
11	1330439	Plug	1

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HARNESS (Figure 119)

DIESEL

FIRST USED ON S/N D177B-35855



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HARNESS

DIESEL

FIRST USED ON S/N D177B-35855

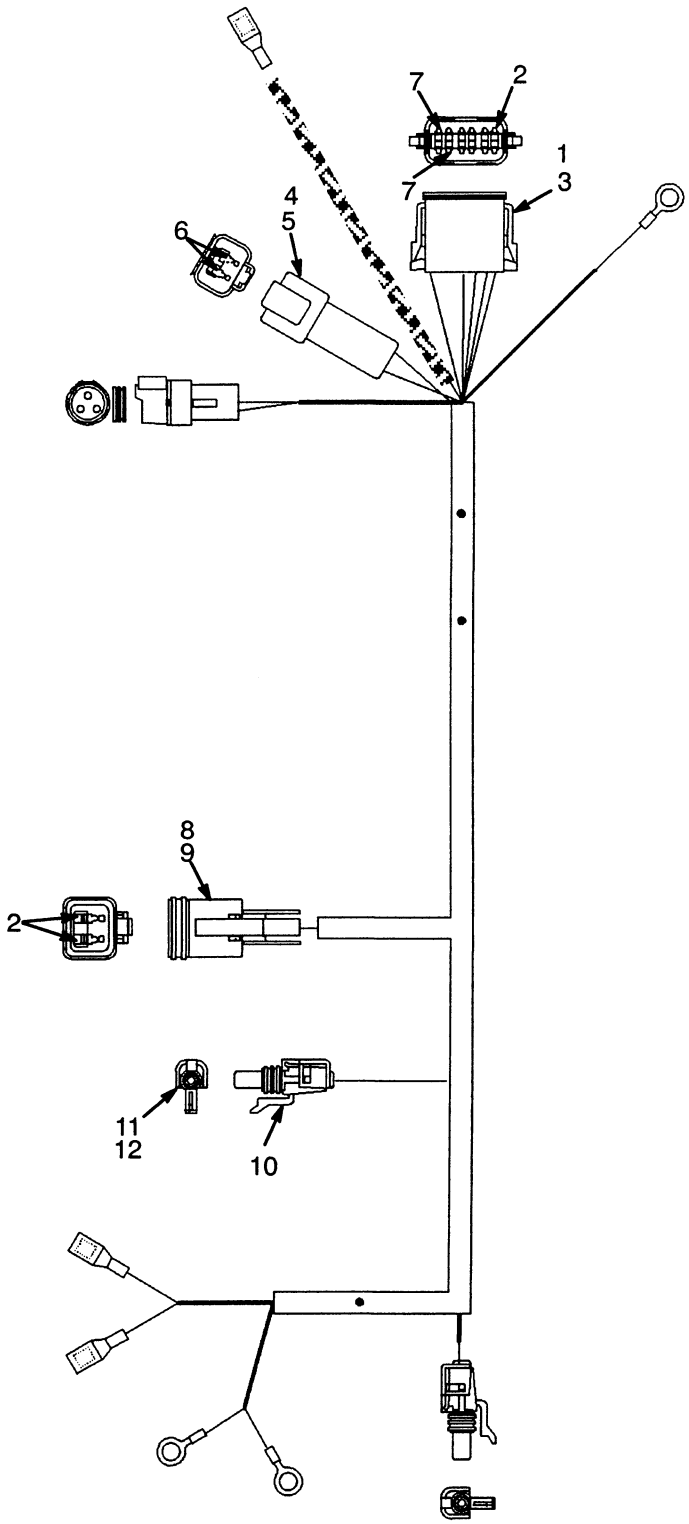
REF	PART NO.	NAME OF PART	QTY
	1385859	Engine Harness	1
1	1330423	Connector Body	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1324311	Connector Body	2
5	314766	Connector Body	1
6	1330298	Connector Body	1
7	1334999	Pin	1
8	1329147	Seal	1
9	1308259	Connector Body	3
10	1330292	Connector Body	1
11	1330439	Plug	2
12	1354382	Connector Body	1
13	1354383	Boot	1

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HARNESS (Figure 120)

CHASSIS

LAST USED ON S/N D177B-35854



HARNESS

CHASSIS

LAST USED ON S/N D177B-35854

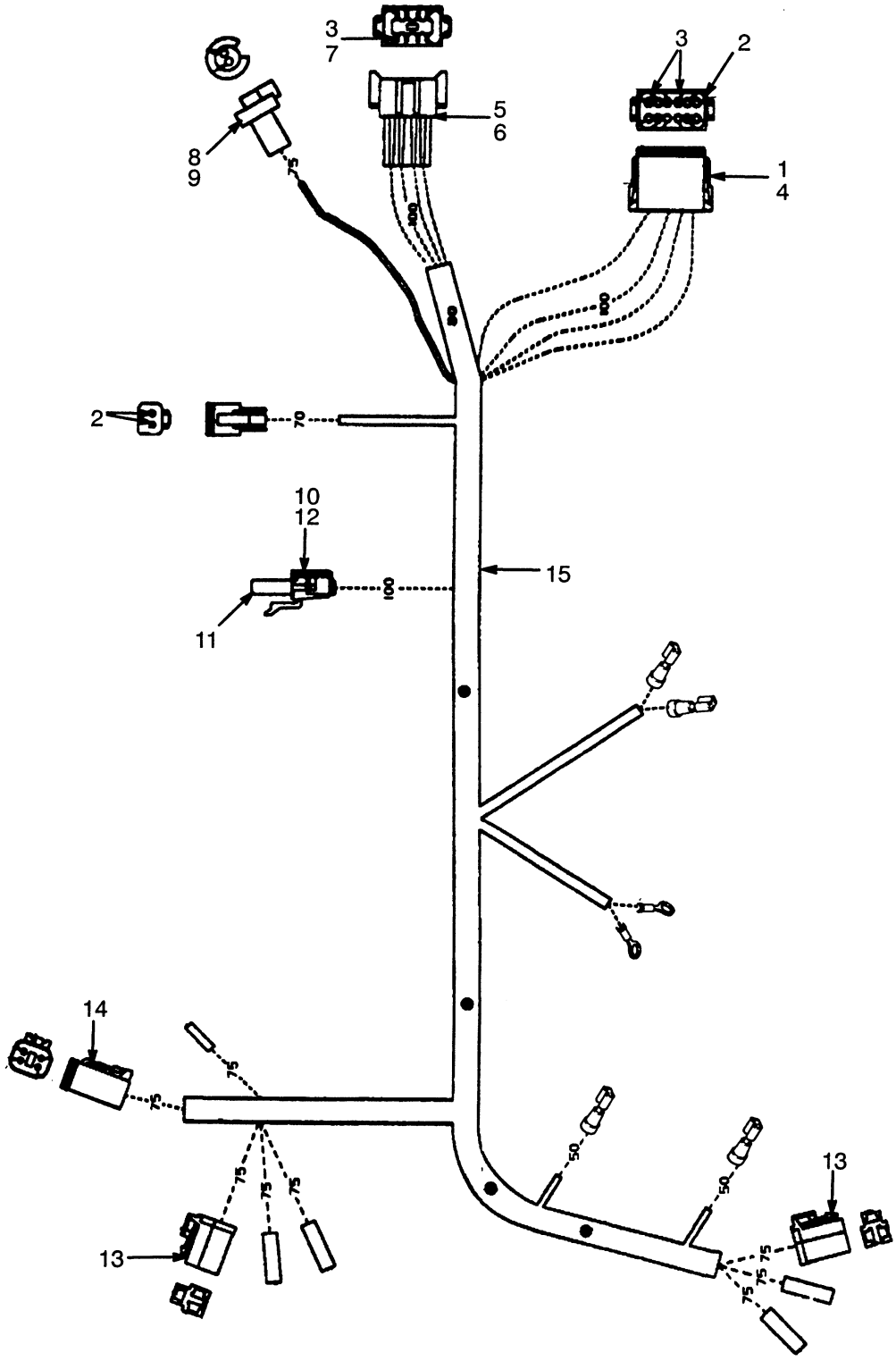
REF	PART NO.	NAME OF PART	QTY
	1351083	Chassis Harness	1
1	1351068	Connector Body (Cluster Harness)	1
2	1330438	Socket	12
3	1351069	Lock	1
4	1330409	Connector Body (Turn Signal)	1
5	1330414	Lock	1
6	1330437	Pin	2
7	1330439	Plug	2
8	1330419	Connector Body (Seat Switch)	1
9	1330424	Lock	1
10	1330299	Connector Body	2
11	1323583	Socket	2
12	1323579	Seal	2

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HARNESS (Figure 121)

CHASSIS

FIRST USED ON S/N D177B-35855



HARNESS

CHASSIS

FIRST USED ON S/N D177B-35855

REF	PART NO.	NAME OF PART	QTY
	1376747	Chassis Harness	1
1	1351068	Connector Body	1
2	1330438	Socket	11
3	1330439	Plug	8
4	1351069	Lock	1
5	1330413	Connector Body	1
6	1330418	Lock	1
7	1330437	Pin	7
8	1351070	Connector Body	1
9	1351076	Seal	1
10	1330299	Connector Body	1
11	1323583	Socket	1
12	1323579	Seal	1
13	1351099	Connector Body	2
14	1330421	Connector Body	1
15	275498	Conduit	1

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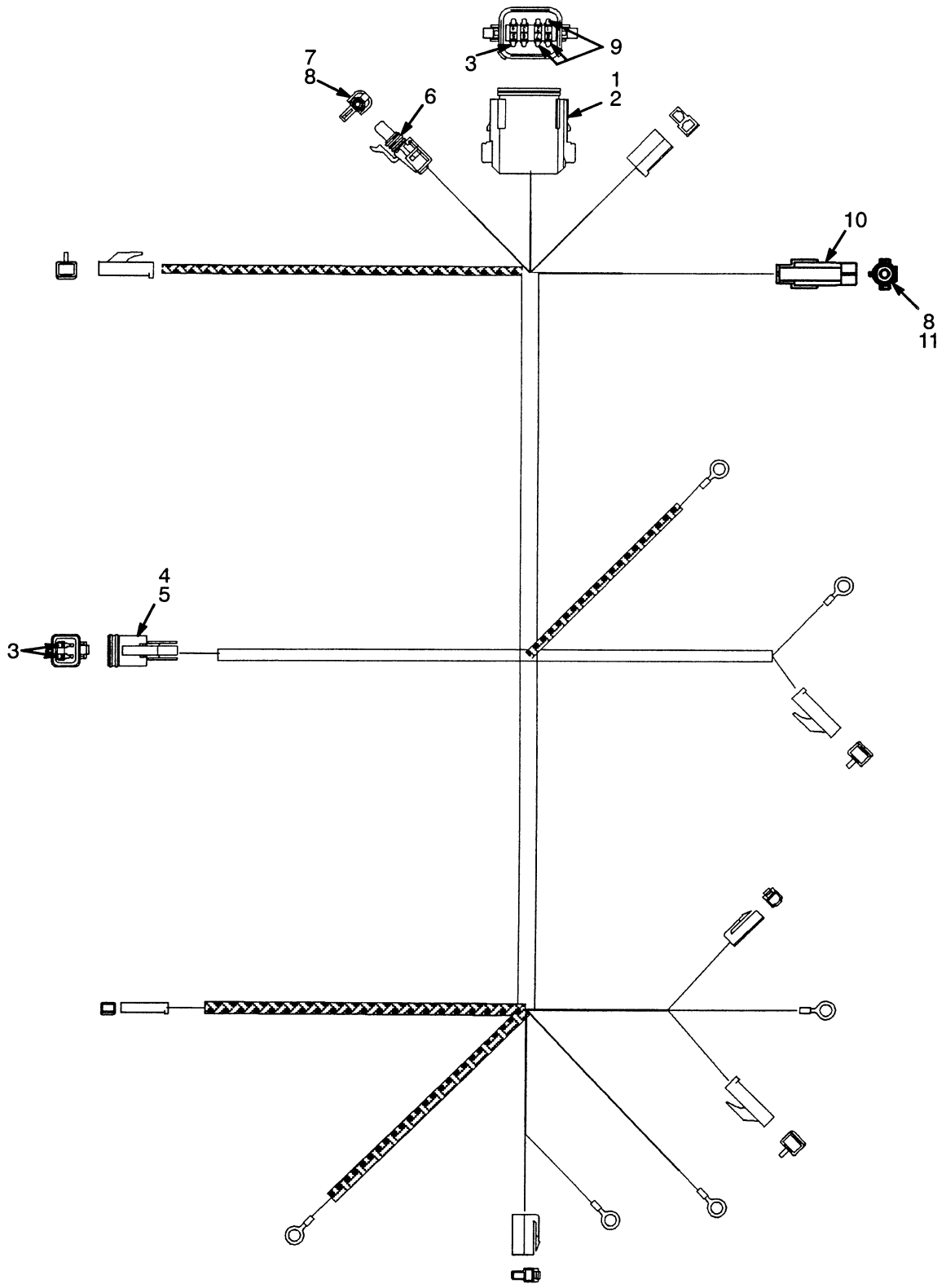
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HARNESS (Figure 122)

GASOLINE AND LPG 2.0L

LAST USED ON S/N D177B-35854



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HARNESS

GASOLINE AND LPG 2.0L

LAST USED ON S/N D177B-35854

REF	PART NO.	NAME OF PART	QTY
a	1352069	Engine Harness	1
b	1379454	Engine Harness	1
1	1330423	Connector Body	1
2	1330429	Lock	1
3	1330438	Socket	5
4	1330419	Connector Body (LPG Harness)	1
5	1330424	Lock	1
6	1330299	Connector Body (Light Harness)	1
7	1336173	Socket	1
8	1329147	Seal	2
9	1330439	Plug	3
10	1330298	Connector Body	1
11	1334999	Pin	1

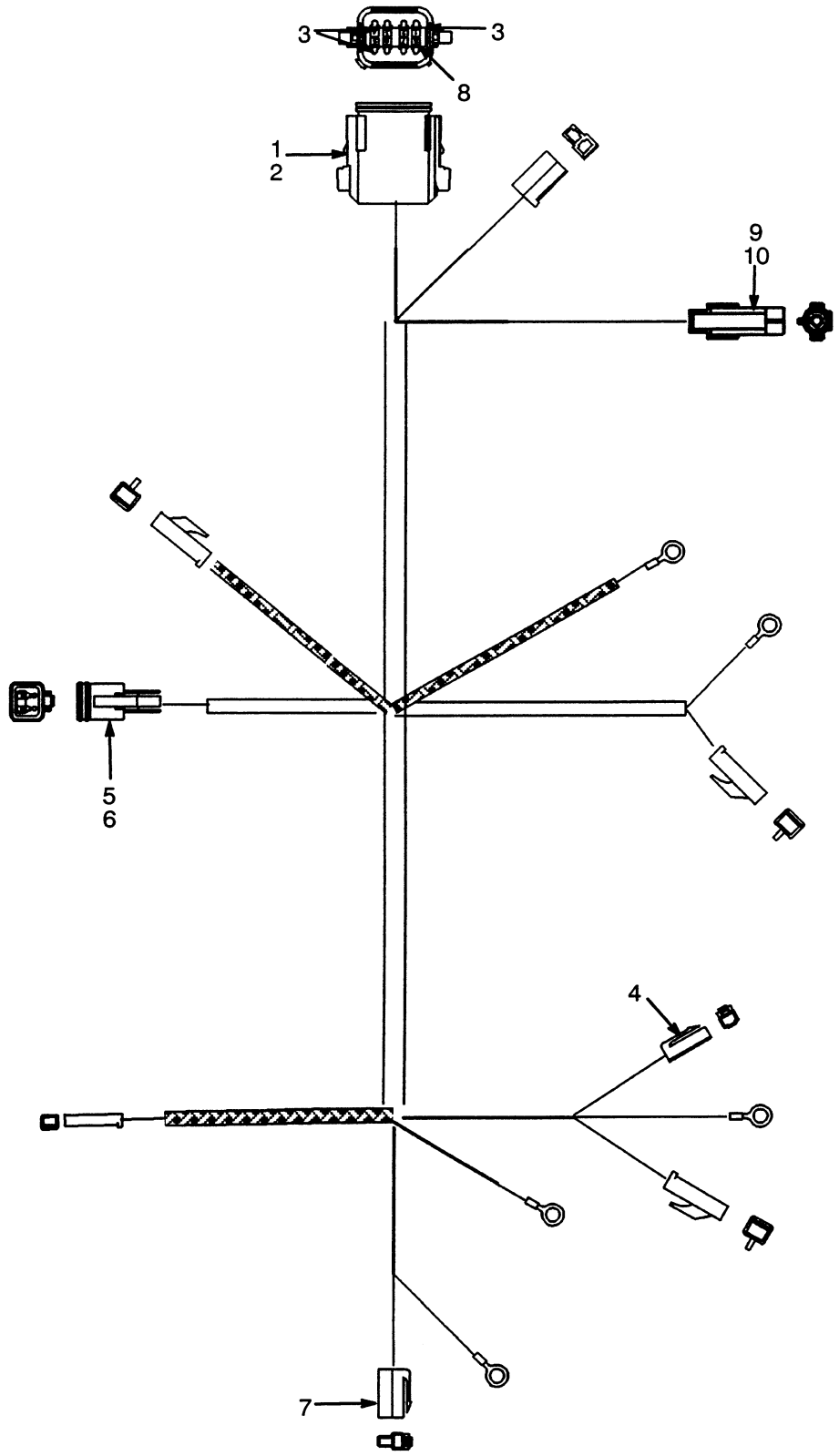
a Last Used On S/N D177B-15834
b First Used On S/N D177B-15835

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HARNESS (Figure 123)

GASOLINE AND LPG 2.0L

FIRST USED ON S/N D177B-35855



HARNESS

GASOLINE AND LPG 2.0L

FIRST USED ON S/N D177B-35855

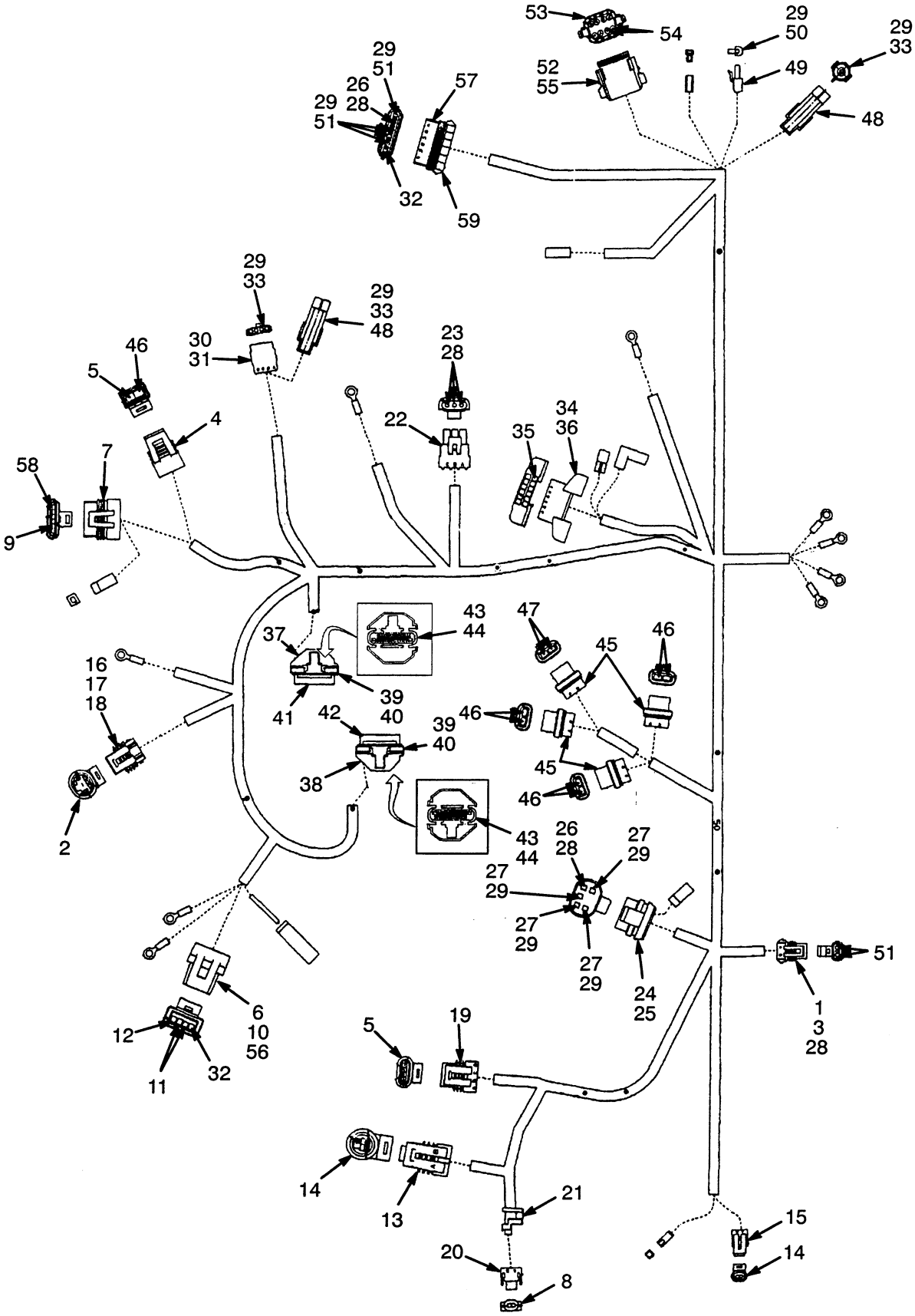
REF	PART NO.	NAME OF PART	QTY
	1385862	Engine Harness	1
1	1330423	Connector Body	1
2	1330428	Lock	1
3	1330438	Socket	5
4	1324311	Connector Body	1
5	1330419	Connector Body	1
6	1330424	Lock	1
7	1308259	Connector Body	1
8	1330439	Plug	3
9	1330298	Connector Body	1
10	1334999	Pin	1

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ENGINE HARNESS (Figure 124)

GASOLINE 2.2L



ENGINE HARNESS

GASOLINE 2.2L

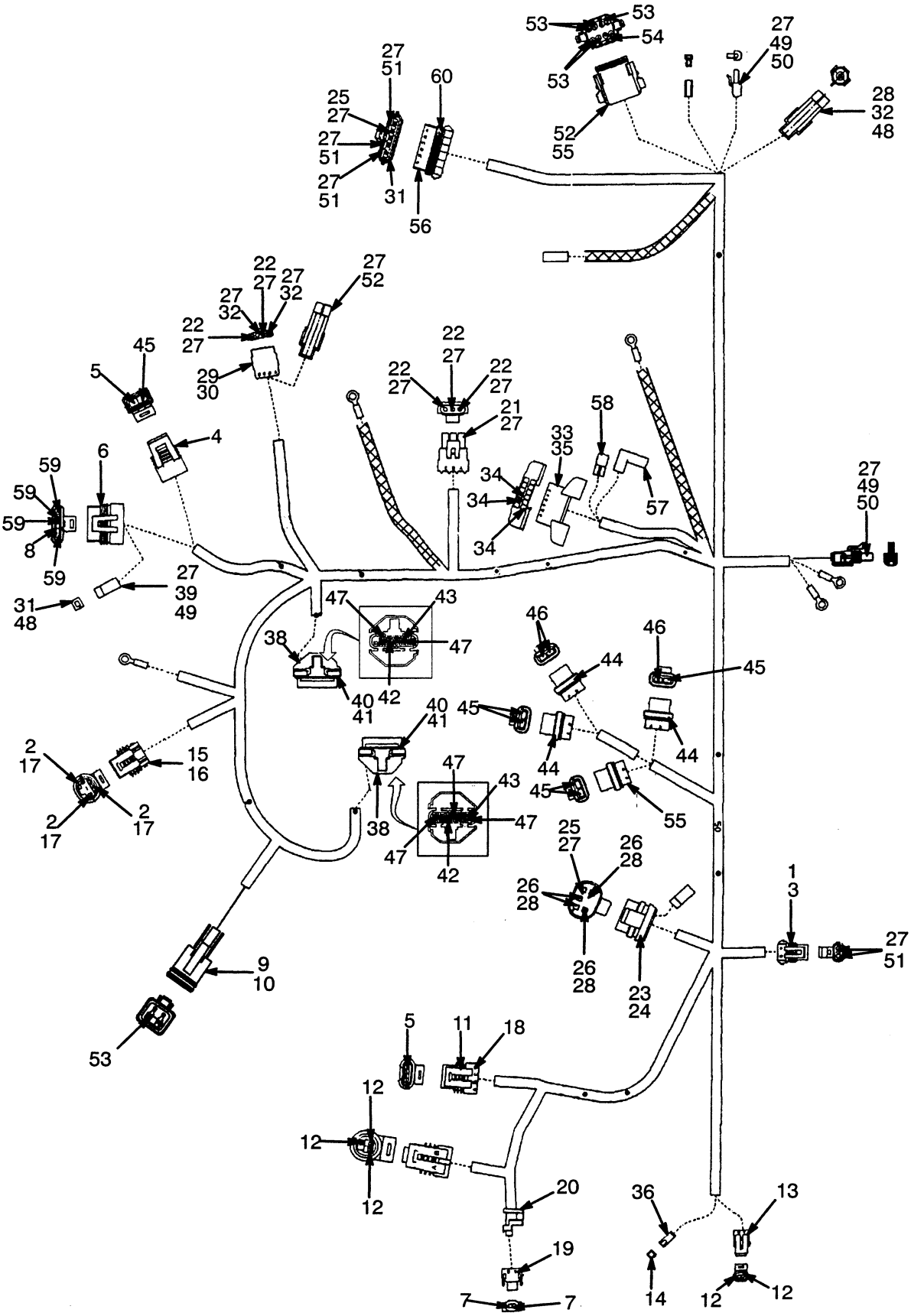
REF	PART NO.	NAME OF PART	QTY
a	1352145	Engine Harness	1
b	1373813	Engine Harness	1
1	1329152	Connector	1
2	1330355	Terminal	3
3	1329151	Lock	1
4	1347205	Connector (Distributor)	1
5	1323576	Terminal	5
6	1347209	Seal	1
7	1347204	Connector (Distributor)	1
8	1330296	Terminal	2
9	1323581	Plug	1
10	1347206	Connector (Alternator)	1
11	1363885	Terminal	2
12	1351139	Plug	2
13	1327957	Connector	1
14	1354237	Terminal	5
15	1323586	Connector (ECM Temperature Sender	1
16	1347210	Connector (Oil Pressure Switch)	1
17	1330357	Lock	1
18	1330356	Seal	3
19	1323575	Connector (IAC Valve)	1
20	1327960	Connector (Injector)	1
21	1356501	Grommet	1
22	1327958	Connector (MAP Sensor)	1
23	1323578	Terminal	3
24	1330302	Plug	1
25	1330303	Lock	1
26	1330281	Terminal	3
27	1330304	Terminal	3
28	1323579	Seal	8
29	1329147	Seal	12
30	1337789	Lock	1
31	1334998	Connector (Fuel Pump & Sender)	1
32	1327164	Plug	2
33	1334999	Pin	5
34	1327956	Plug	1
35	1330279	Terminal	2
36	1330294	Lock	1
37	1350218	Relief (LH)	1
38	1350219	Relief (RH)	1
39	1350220	Connector	2
40	1350221	Seal	2
41	1350222	Terminal Cap (Clear)	1
42	1350223	Terminal Cap (Black)	1
43	1352104	Terminal	28
44	1352105	Plug	36
45	1330292	Plug	4
46	1330283	Terminal	6
47	1354204	Terminal	3
48	1330298	Connector	2
49	1330299	Connector (Light Harness)	1
50	1336173	Socket	1
51	1329148	Terminal	6
52	1330423	Connector (Cluster Harness)	1
53	1330434	Socket	6
54	1330439	Plug	2
55	1330429	Lock	1
56	1347208	Lock	1
57	1327959	Plug (Governor Module)	1
58	1352142	Terminal	5
59	1330297	Lock	1

a Last Used On S/N D177B-6045
b First Used On S/N D177B-6046

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TYPE GS HARNESS (Figure 125)

GASOLINE 2.2L



TYPE GS HARNESS

GASOLINE 2.2L

REF	PART NO.	NAME OF PART	QTY
a	1368929	Safety Harness	1
b	1373814	Safety Harness	1
1	1329152	Connector (Governor Motor)	1
2	1330355	Terminal	3
3	1329151	Lock	1
4	1347205	Connector (Distributor)	1
5	1323576	Terminal	5
6	1347204	Connector (Distributor)	1
7	1330296	Terminal	2
8	1323581	Seal	1
9	1330419	Connector (Alternator)	1
10	1330424	Lock	1
11	1327957	Connector	1
12	1354237	Terminal	5
13	1323586	Connector (ECM Temperature Sender)	1
14	370730	Fitting	1
15	1347210	Connector (Oil Pressure Switch)	1
16	1330357	Lock	1
17	1330356	Seal	3
18	1323575	Connector (IAC Valve)	1
19	1327960	Connector (Injector)	1
20	1356501	Grommet	1
21	1327958	Connector (MAP Sensor)	1
22	1323578	Terminal	5
23	1330302	Connector (Fuel Pump Relay)	1
24	1330303	Lock	1
25	1330281	Terminal	3
26	1330304	Terminal	3
27	1323579	Seal	20
28	1329147	Seal	1
29	1337789	Lock	1
30	1334998	Connector (Fuel Pump And Sender)	1
31	1327164	Plug	2
32	1334999	Pin	4
33	1327956	Plug	1
34	1330279	Terminal	3
35	1330294	Lock	2
36	1301720	Connector	1
37	1337386	Seal	3
38	1350218	Relief	2
39	1323583	Socket	1
40	1350220	Connector	2
41	1350221	Seal	2
42	1352104	Terminal	13
43	1352105	Seal	36
44	1330292	Connector	2
45	1330283	Terminal	6
46	1354204	Fitting	3
47	1368073	Terminal	15
48	1330298	Fitting	3
49	1330299	Fitting	3
50	1336173	Socket	2
51	1329148	Fitting	6
52	1330423	Connector (Cluster Harness)	1
53	1330438	Socket	6
54	1330439	Plug	2
55	1330429	Lock	1
56	1327959	Plug (Governor Module)	1
57	1339448	Fitting	1
58	1339447	Fitting	1
59	1352142	Fitting	5
60	1330297	Fitting	1

a Last Used On S/N D177B-6045

b First Used On S/N D177B-6046

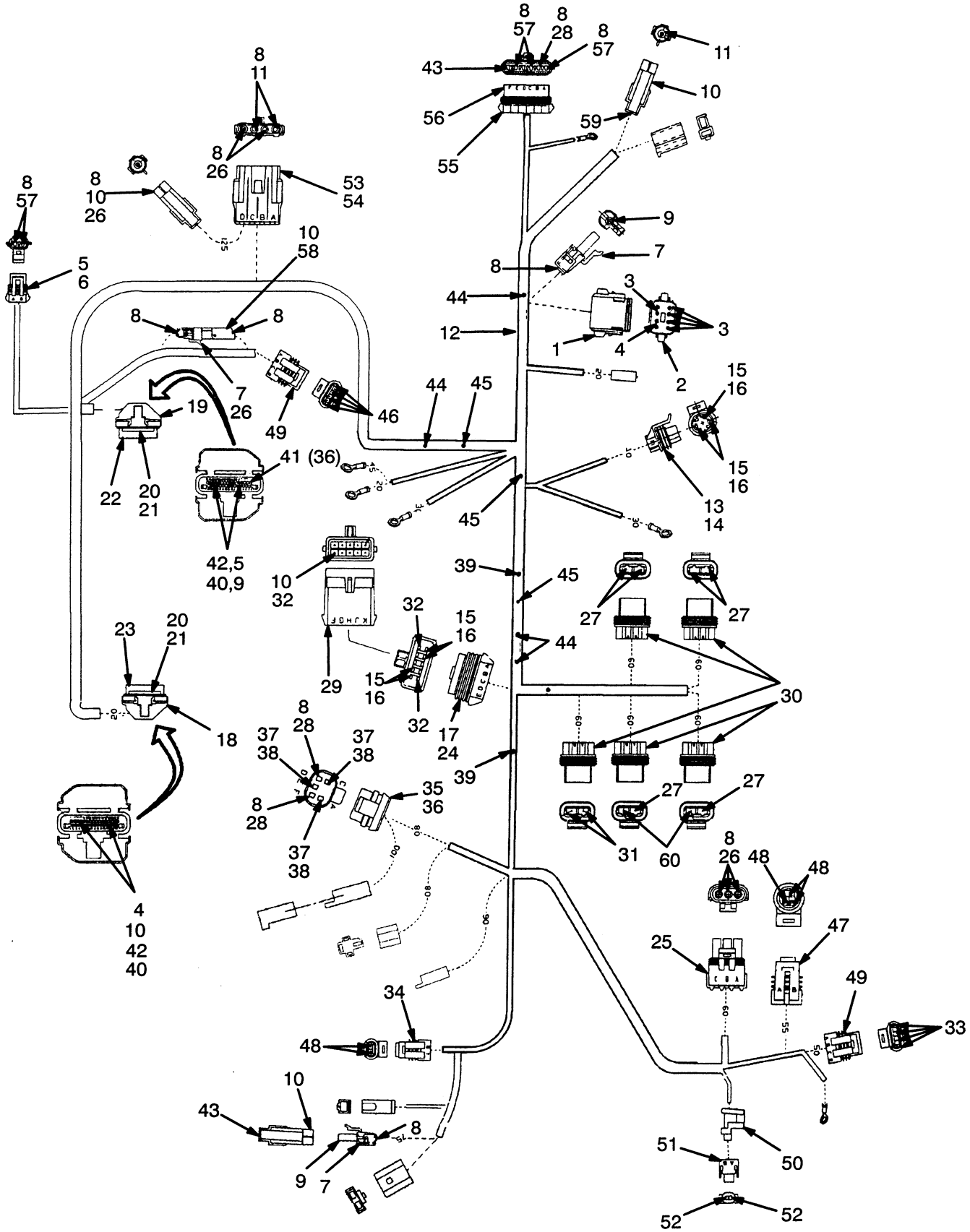
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ENGINE HARNESS (Figure 126)

GASOLINE 3.0L

LAST USED ON S/N D177B-35854



ENGINE HARNESS

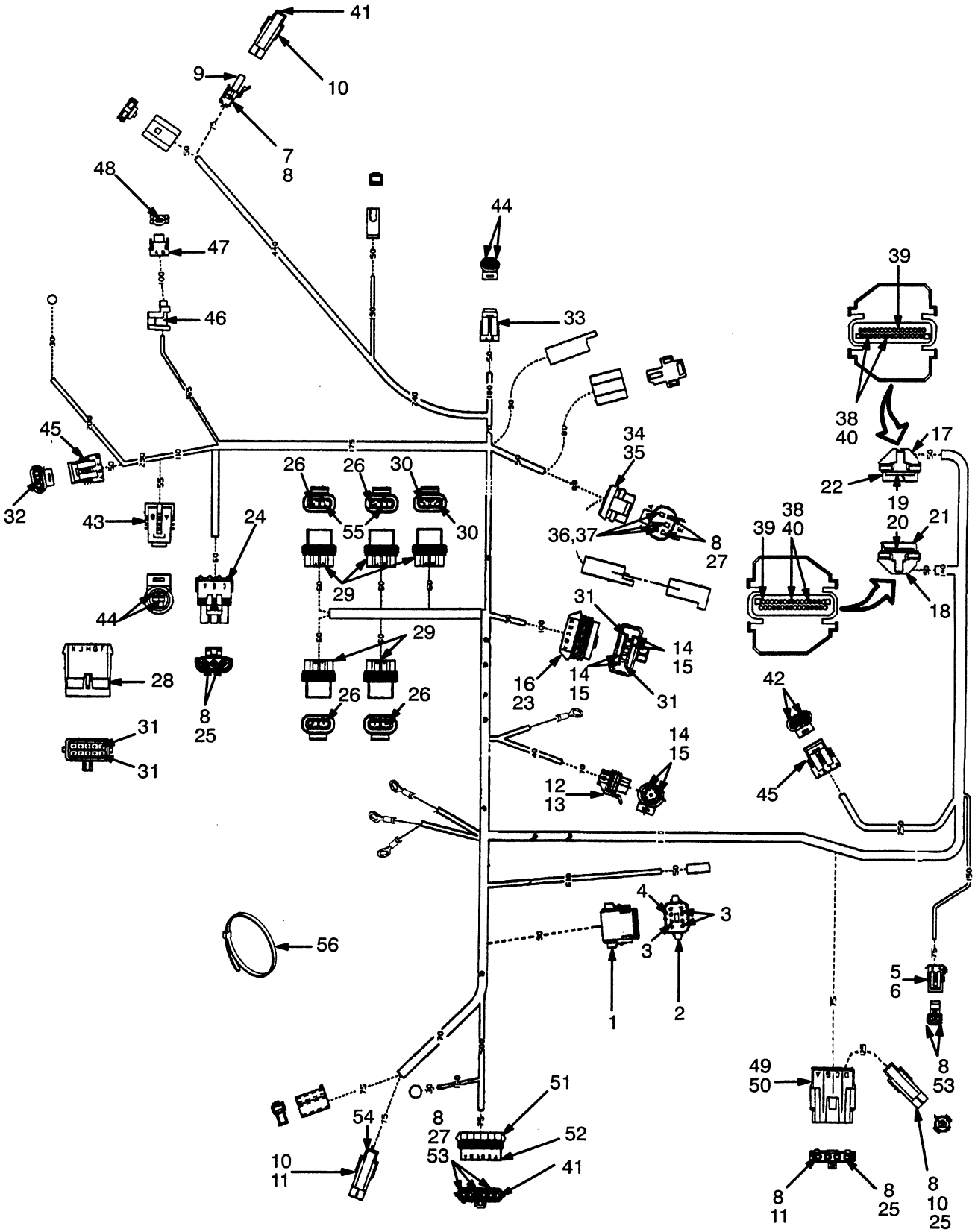
GASOLINE 3.0L

LAST USED ON S/N D177B-35854

REF	PART NO.	NAME OF PART	QTY
	1378413	Engine Harness	1
1	1330423	Connector (Cluster Harness)	1
2	1330429	Lock	1
3	1330438	Socket	6
4	1330439	Plug	2
5	1329152	Connector (Governor Motor)	1
6	1329151	Lock	2
7	1330299	Connector	3
8	1323579	Seal	21
9	1336173	Socket	2
10	1330298	Connector	4
11	1334999	Pin	3
12	381919	Conduit	AR
13	1347210	Connector (Oil Pressure Switch)	1
14	1330357	Lock	1
15	1330355	Terminal	7
16	1330356	Seal	7
17	1376617	Connector (Diagnostic Handset)	1
18	1350218	Strain Relief (LH)	1
19	1350219	Strain Relief (RH)	1
20	1350220	Connector	2
21	1350221	Seal	2
22	1350222	Terminal Cap (Clear)	1
23	1350223	Terminal Cap (Black)	1
24	1376619	Lock	1
25	1327958	Connector (MAP Sensor)	1
26	1323578	Pin	7
27	1330283	Terminal	6
28	1330281	Terminal	3
29	1376618	Receptacle	1
30	1330292	Connector (Plug)	5
31	1336171	Terminal	2
32	1351139	Plug	16
33	1330296	Terminal	4
34	1323586	Connector (Temperature Sender) (MSTS Controller)	1
35	1330302	Connector (Fuel Pump Relay)	1
36	1330303	Lock	1
37	1330304	Terminal	3
38	1337386	Seal	3
39	1345027	Splice	2
40	1352104	Terminal	13
41	1352105	Seal	36
42	1368073	Terminal	15
43	1327164	Plug	2
44	1345029	Splice	5
45	1345026	Splice	3
46	1352142	Terminal	4
47	1327957	Connector (Throttle Position Sensor)	1
48	1354237	Terminal	5
49	1323575	Connector	2
50	1356501	Grommet	1
51	1327960	Connector (Injector)	1
52	1330296	Terminal	2
53	1337789	Lock	1
54	1334998	Connector (Fuel Pump & Sender)	1
55	1330297	Lock	1
56	1327959	Connector (Governor Module)	1
57	1329148	Terminal	5
58	1323583	Socket	1
59	1329147	Seal	1
60	1354204	Terminal	2

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ENGINE HARNESS (Figure 127)
GASOLINE 3.0L
FIRST USED ON S/N D177B-35855



ENGINE HARNESS

GASOLINE 3.0L

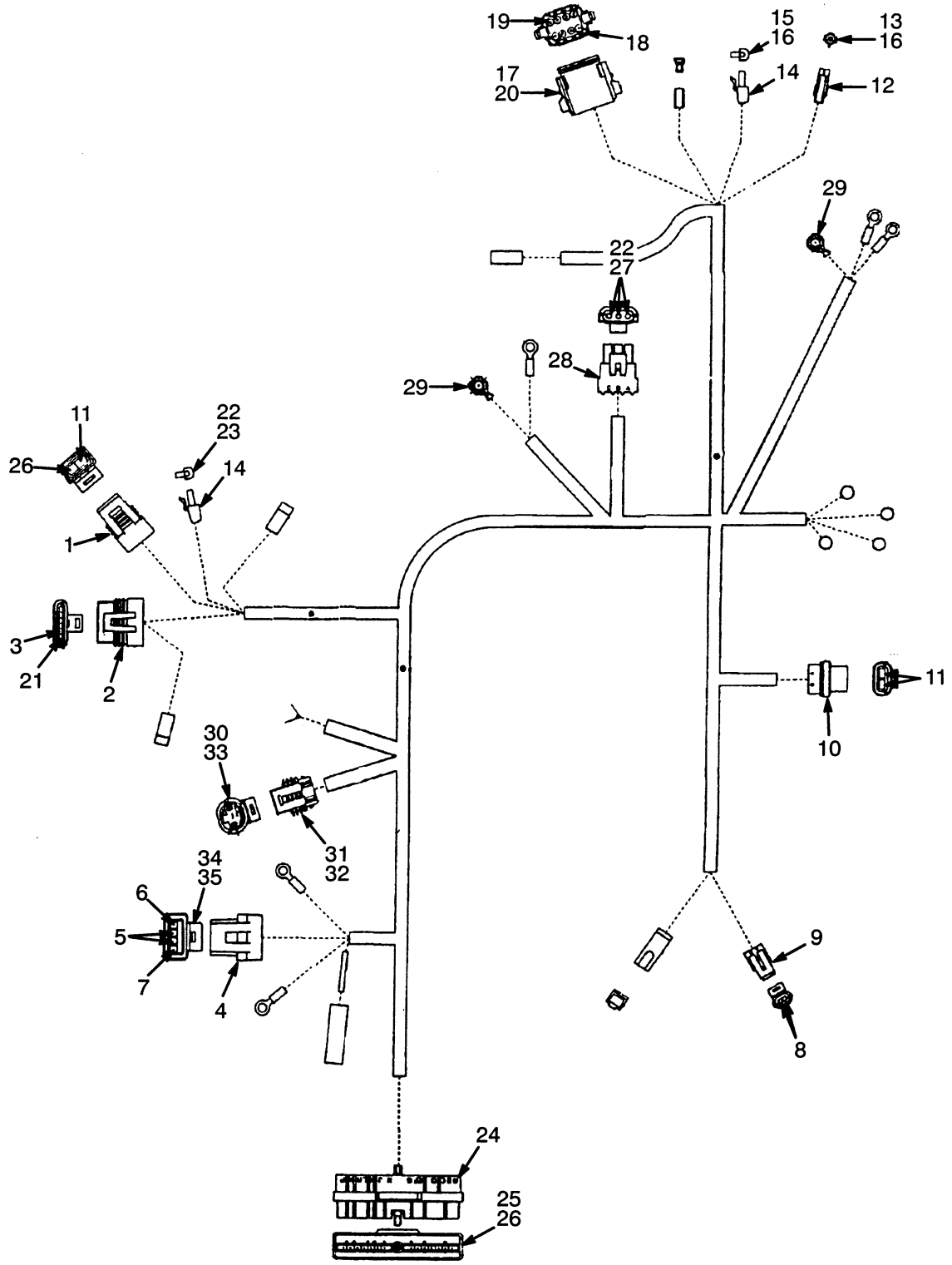
FIRST USED ON S/N D177B-35855

REF	PART NO.	NAME OF PART	QTY
	1385860	Engine Harness	1
1	1330423	Connector	1
2	1330429	Lock	1
3	1330438	Socket	6
4	1330439	Plug	2
5	1329152	Connector	1
6	1329151	Lock	2
7	1330299	Connector	1
8	1323579	Seal	18
9	1336173	Socket	1
10	1330298	Connector	3
11	1334999	Pin	3
12	1347210	Connector	1
13	1330357	Lock	1
14	1330355	Terminal	7
15	1330356	Seal	7
16	1376617	Connector	1
17	1350218	Strain Relief (LH)	1
18	1350219	Strain Relief (RH)	1
19	1350220	Connector	2
20	1350221	Seal	2
21	1350222	Terminal Cap (Clear)	1
22	1350223	Terminal Cap (Black)	1
23	1376619	Lock	1
24	1327958	Connector	1
25	1323578	Pin	6
26	1330283	Terminal	6
27	1330281	Terminal	3
28	1376618	Receptacle (For iitem 16)	1
29	1330292	Connector	5
30	1336171	Terminal	2
31	1351139	Plug	16
32	1330296	Terminal	4
33	1323586	Connector	1
34	1330302	Connector	1
35	1330303	Lock	1
36	1330304	Terminal	3
37	1337386	Seal	3
38	1352104	Terminal	13
39	1352105	Plug	36
40	1368073	Terminal	15
41	1327164	Plug	2
42	1352142	Terminal	4
43	1327957	Connector	1
44	1354237	Terminal	5
45	1323575	Connector	2
46	1356501	Grommet	1
47	1327960	Connector	1
48	1330296	Terminal	2
49	1337789	Lock	1
50	1334998	Connector	1
51	1330297	Lock	1
52	1327959	Connector	1
53	1329148	Terminal	5
54	1329147	Seal	1
55	1354204	Terminal	2
56	114312	Strap Clamp	AR

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ENGINE HARNESS (Figure 128)

LPG 2.2L



ENGINE HARNESS

LPG 2.2L

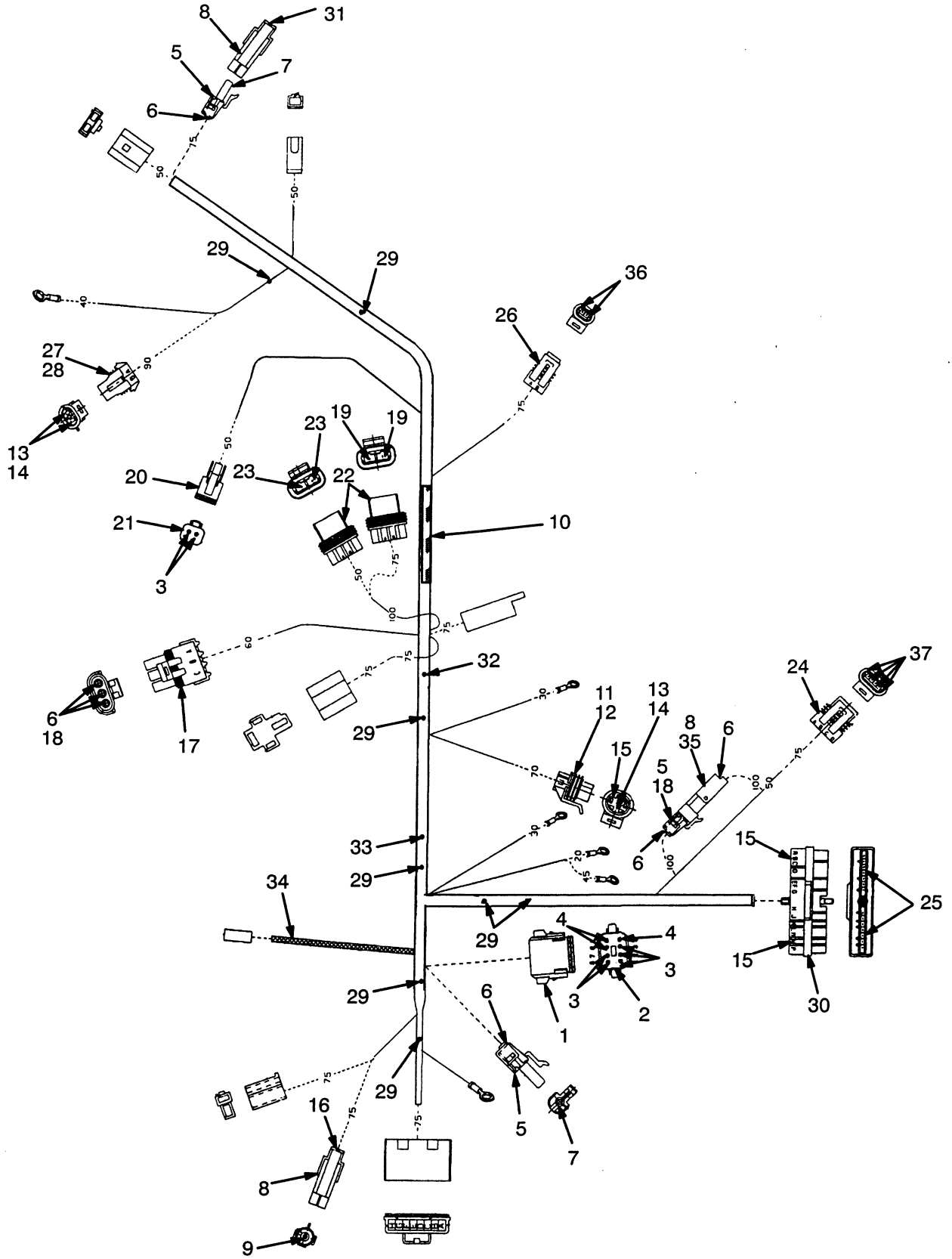
REF	PART NO.	NAME OF PART	QTY
	1352171	Engine Harness	1
1	1347205	Connector (Distributor)	1
2	1347204	Connector (Distributor)	1
3	1323581	Plug	1
4	1347206	Connector (Alternator)	1
5	1363885	Terminal	1
6	1351139	Plug	4
7	1347209	Seal	1
8	1354237	Terminal	2
9	1323586	Connector (ECM Temperature Sender)	1
10	1330292	Plug	1
11	1330283	Terminal	3
12	1330298	Connector (Starter Relay Harness)	1
13	1334999	Pin	1
14	1330299	Connector	4
15	1336173	Socket	3
16	1329147	Seal	2
17	1330423	Connector (Cluster Harness)	1
18	1330434	Socket	5
19	1330439	Plug	3
20	1330429	Lock	1
21	1352142	Terminal	5
22	1323579	Seal	7
23	1323583	Socket	1
24	1323581	Plug	4
25	1323580	Plug	1
26	1323576	Terminal	11
27	1323578	Pin	3
28	1327958	Connector (MAP Sensor)	1
29	1337350	Terminal	2
30	1330355	Terminal	1
31	1347210	Connector (Oil Pressure Light)	1
32	1330357	Lock	1
33	1330356	Seal	1
34	1347208	Lock	1
35	1347209	Seal	1

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ENGINE HARNESS (Figure 129)

LPG 3.0L

LAST USED ON S/N D177B-35854



ENGINE HARNESS

LPG 3.0L

LAST USED ON S/N D177B-35854

REF	PART NO.	NAME OF PART	QTY
	1376608	Engine Harness	1
1	1330423	Connector (Cluster Harness)	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1330439	Plug	3
5	1330299	Connector	3
6	1323579	Seal	7
7	1336173	Socket	2
8	1330298	Connector	3
9	1334999	Pin	1
10	381919	Conduit	AR
11	1347210	Connector (Oil Pressure Switch)	1
12	1330357	Lock	1
13	1330355	Terminal	3
14	1330356	Seal	3
15	1323581	Seal	6
16	1329147	Seal	1
17	1327958	Connector (MAP Sensor)	1
18	1323578	Pin	4
19	1330283	Terminal	2
20	1330419	Connector (LPG Solenoid Valve)	1
21	1330424	Lock	1
22	1330292	Plug	2
23	1336171	Terminal	2
24	1323575	Connector (Distributor)	1
25	1323576	Terminal	10
26	1323586	Connector (Temperature Sender) (MSTS Controller)	1
27	1345689	Connector (Governor Solenoid Valve)	1
28	1345690	Lock	1
29	1345027	Splice	8
30	1323580	Connector (MSTS Controller)	1
31	1327164	Plug	1
32	1345029	Splice	1
33	1345026	Splice	1
34	16906	Conduit (650 mm)	1
35	1323583	Socket	1
36	1354237	Terminal	2
37	1352142	Terminal	4

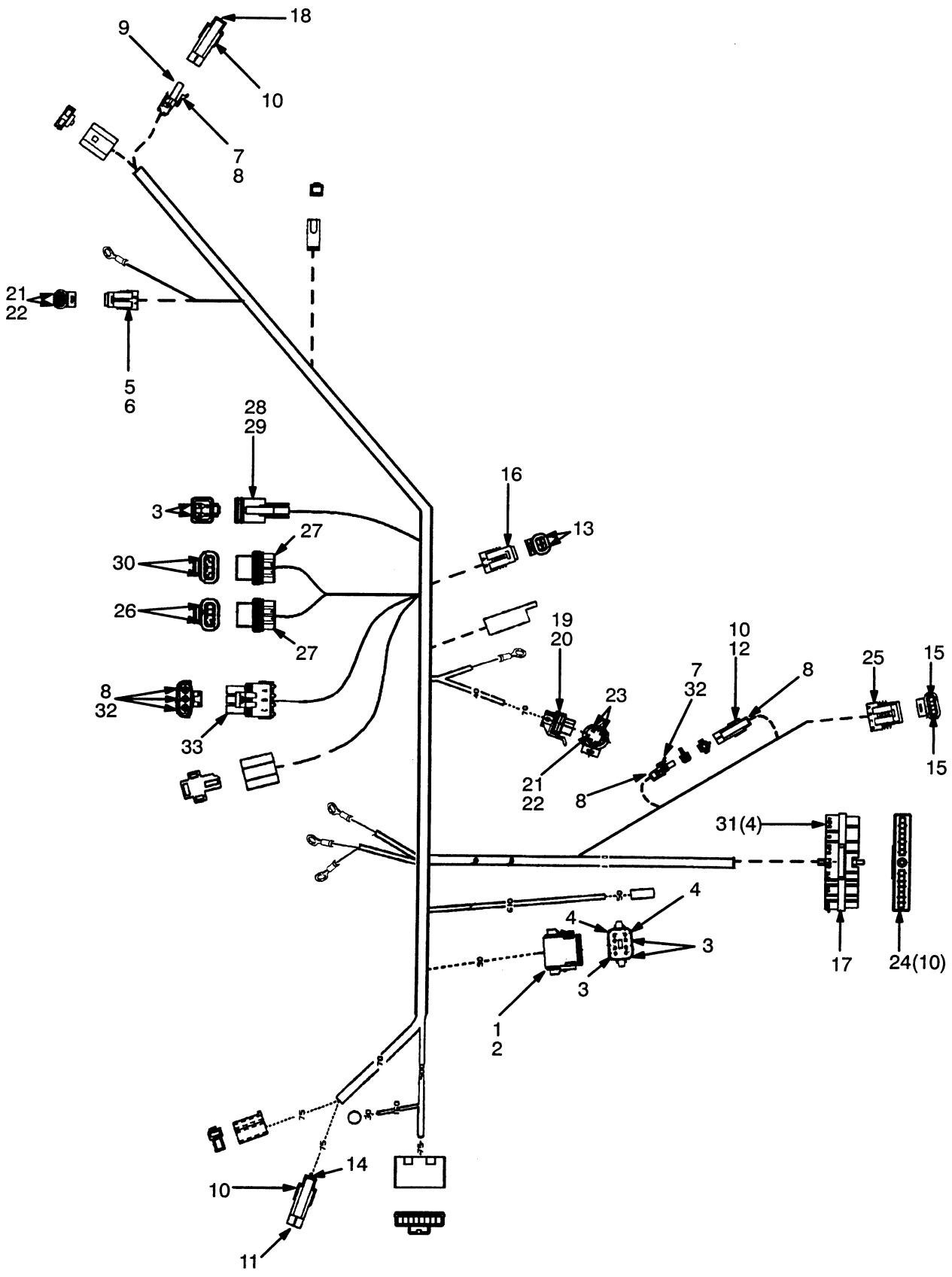
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ENGINE HARNESS (Figure 130)

LPG 3.0L

USED ON S/N D177B-35855 THRU S/N D177B-39471



ENGINE HARNESS

LPG 3.0L

USED ON S/N D177B-35855 THRU S/N D177B-39471

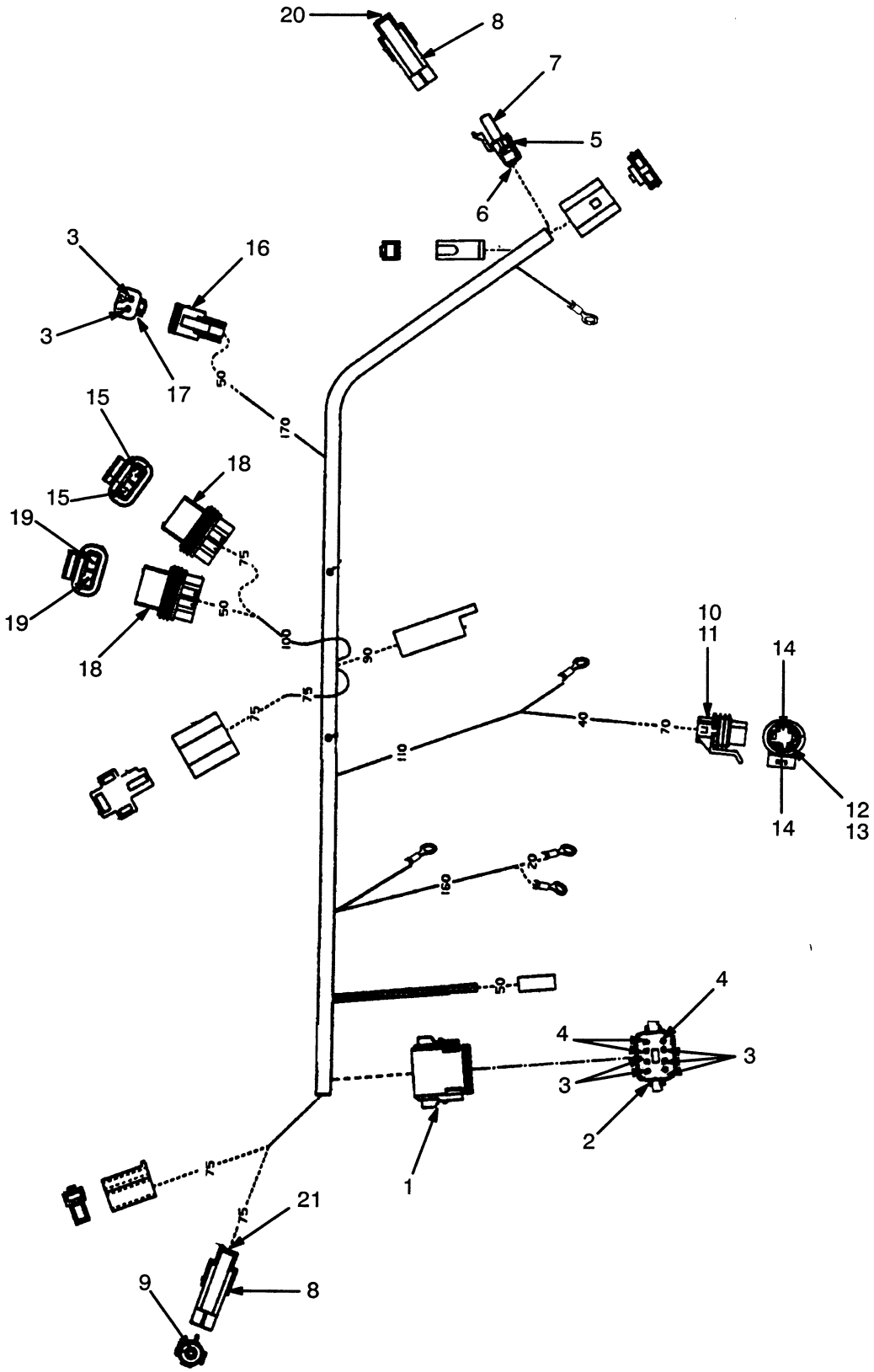
REF	PART NO.	NAME OF PART	QTY
	1385861	Engine Harness	1
1	1330423	Connector	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1330439	Plug	3
5	1345689	Connector	1
6	1345690	Lock	1
7	1330299	Connector	2
8	1323579	Seal	6
9	1336173	Socket	1
10	1330298	Connector	3
11	1334999	Pin	1
12	1323583	Socket	1
13	1354237	Terminal	2
14	1329147	Seal	1
15	1352142	Terminal	4
15	1354237	Terminal (Optional)	4
16	1323586	Connector	1
17	1323580	Connector	1
18	1327164	Plug	1
19	1347210	Connector	1
20	1330357	Lock	1
21	1330355	Terminal	3
22	1330356	Seal	3
23	1323581	Plug	2
24	1323576	Terminal	10
25	1323575	Connector	1
26	1336171	Terminal	2
27	1330292	Connector	2
28	1330424	Lock	1
29	1330419	Connector	1
30	1330283	Terminal	2
31	1323581	Plug	4
32	1323578	Pin	4
33	1327958	Connector	1

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ENGINE HARNESS (Figure 131)

LPG 3.0L WITHOUT MSTS

FIRST USED ON S/N D177B-39472



ENGINE HARNESS

LPG 3.0L WITHOUT MSTS

FIRST USED ON S/N D177B-39472

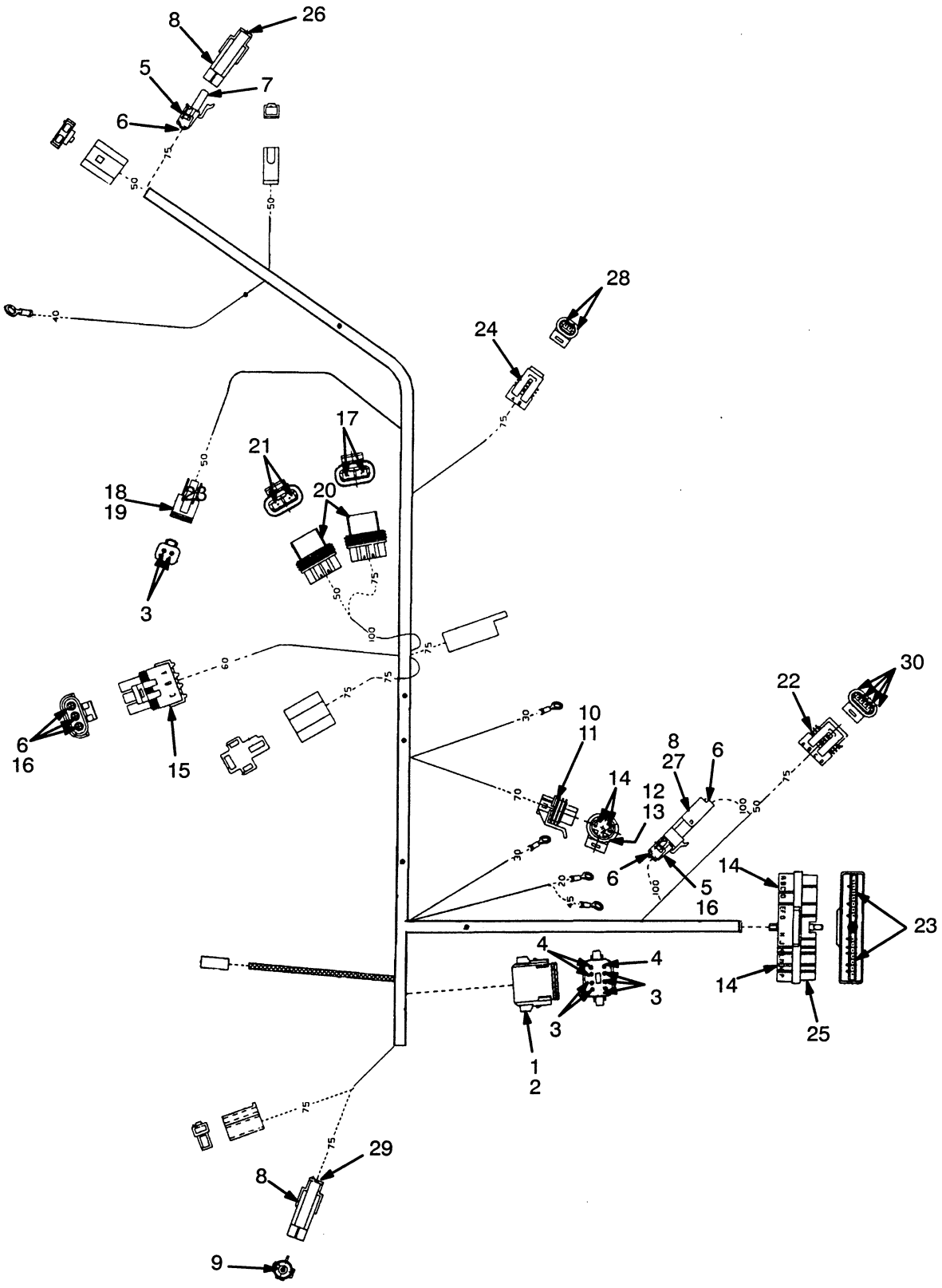
REF	PART NO.	NAME OF PART	QTY
	1383401	Harness (LPG Engine)	1
1	1330423	Connector	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1330439	Plug	3
5	1330299	Connector	1
6	1323579	Seal	1
7	1336173	Socket	1
8	1330298	Connector	2
9	1334999	Pin	1
10	1347210	Connector	1
11	1330357	Lock	1
12	1330355	Terminal	1
13	1330356	Seal	1
14	1323581	Plug	2
15	1330283	Terminal	2
16	1330419	Connector	1
17	1330424	Lock	1
18	1330292	Connector	2
19	1336171	Terminal	2
20	1327164	Plug	1
21	1329147	Seal	1

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ENGINE HARNESS (Figure 132)

LPG 3.0L WITH MSTS

FIRST USED ON S/N D177B-39472



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ENGINE HARNESS

LPG 3.0L WITH MSTS

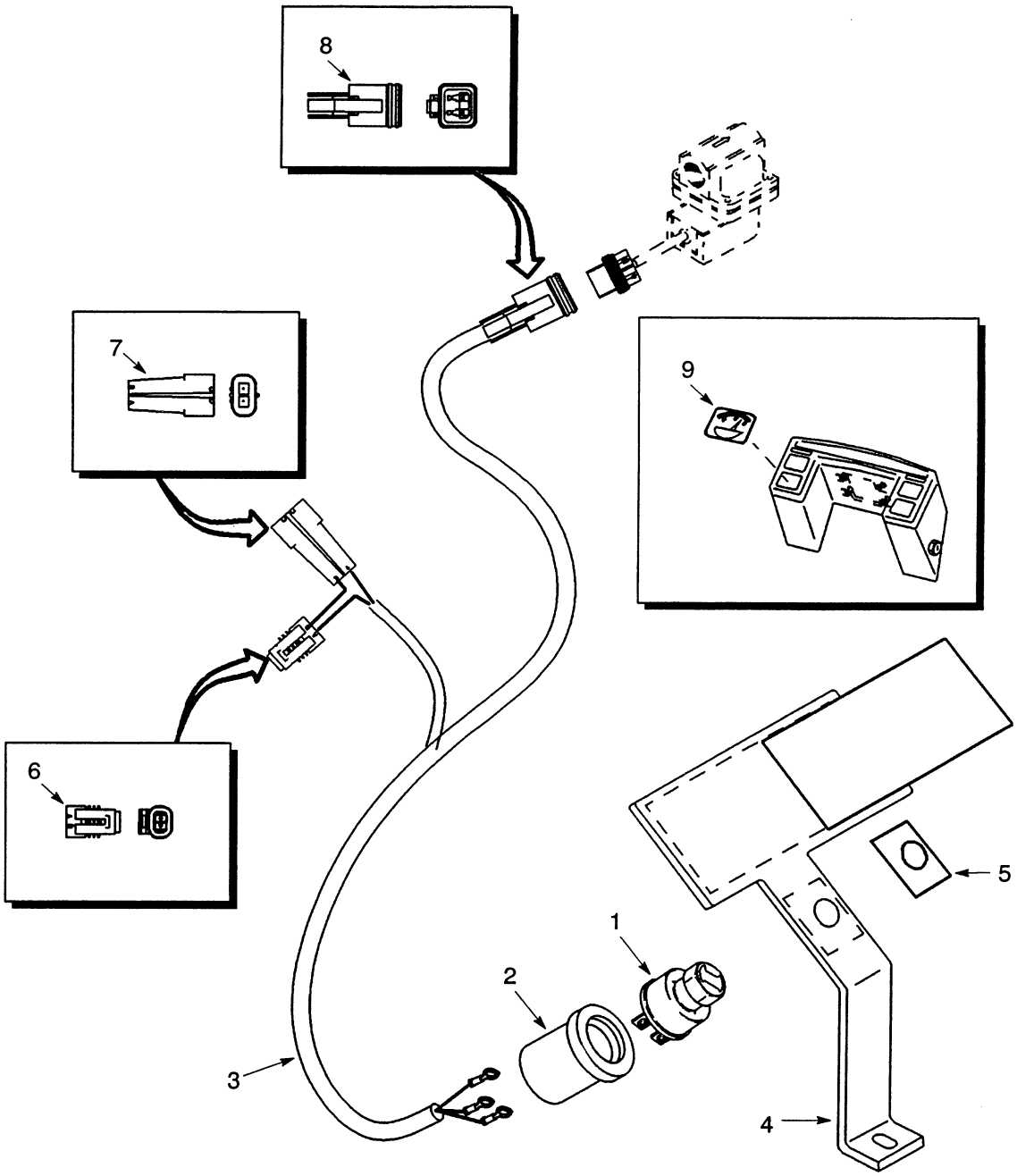
FIRST USED ON S/N D177B-39472

REF	PART NO.	NAME OF PART	QTY
	1383421	Harness (LPG Engine) (With MSTS)	1
1	1330423	Connector	1
2	1330429	Lock	1
3	1330438	Socket	7
4	1330439	Plug	3
5	1330299	Connector	2
6	1323579	Seal	6
7	1336173	Socket	1
8	1330298	Connector	3
9	1334999	Pin	1
10	1347210	Connector	1
11	1330357	Lock	1
12	1330355	Terminal	1
13	1330356	Seal	1
14	1323581	Plug	6
15	1327958	Connector	1
16	1323578	Pin	4
17	1330283	Terminal	2
18	1330419	Connector	1
19	1330424	Lock	1
20	1330292	Connector	2
21	1336171	Terminal	2
22	1323575	Connector	1
23	1323576	Terminal	10
24	1323586	Connector	1
25	1323580	Connector	1
26	1327164	Plug	1
27	1323583	Socket	1
28	1354237	Terminal	2
29	1329147	Seal	1
30	1352142	Terminal	4
30	1354237	Terminal (Optional)	4

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HARNESS AND SWITCH (Figure 133)

DUAL FUEL 3.0L



REF	PART NO.	NAME OF PART	QTY
1	1369470	Switch	1
2	864764	Boot	1
3	865216	Harness	1
4	1378515	Bracket	1
5	864763	Nameplate	1
6	1336870	Connector	1
7	1330292	Connector	1
8	1330419	Connector	1
9	864740	Decal	1

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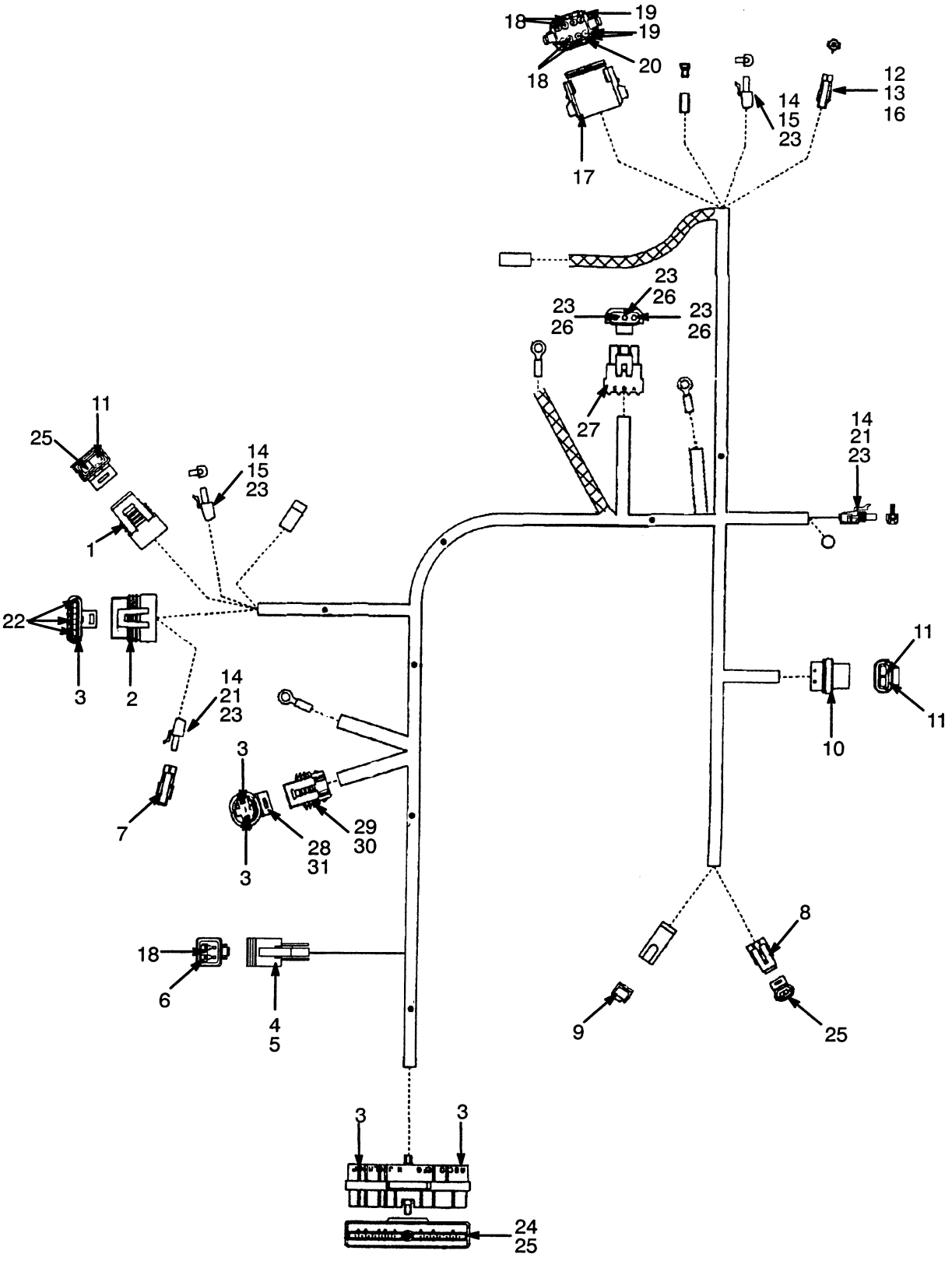
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ENGINE HARNESS-LPS (Figure 134)

LPG 2.2L



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ENGINE HARNESS-LPS

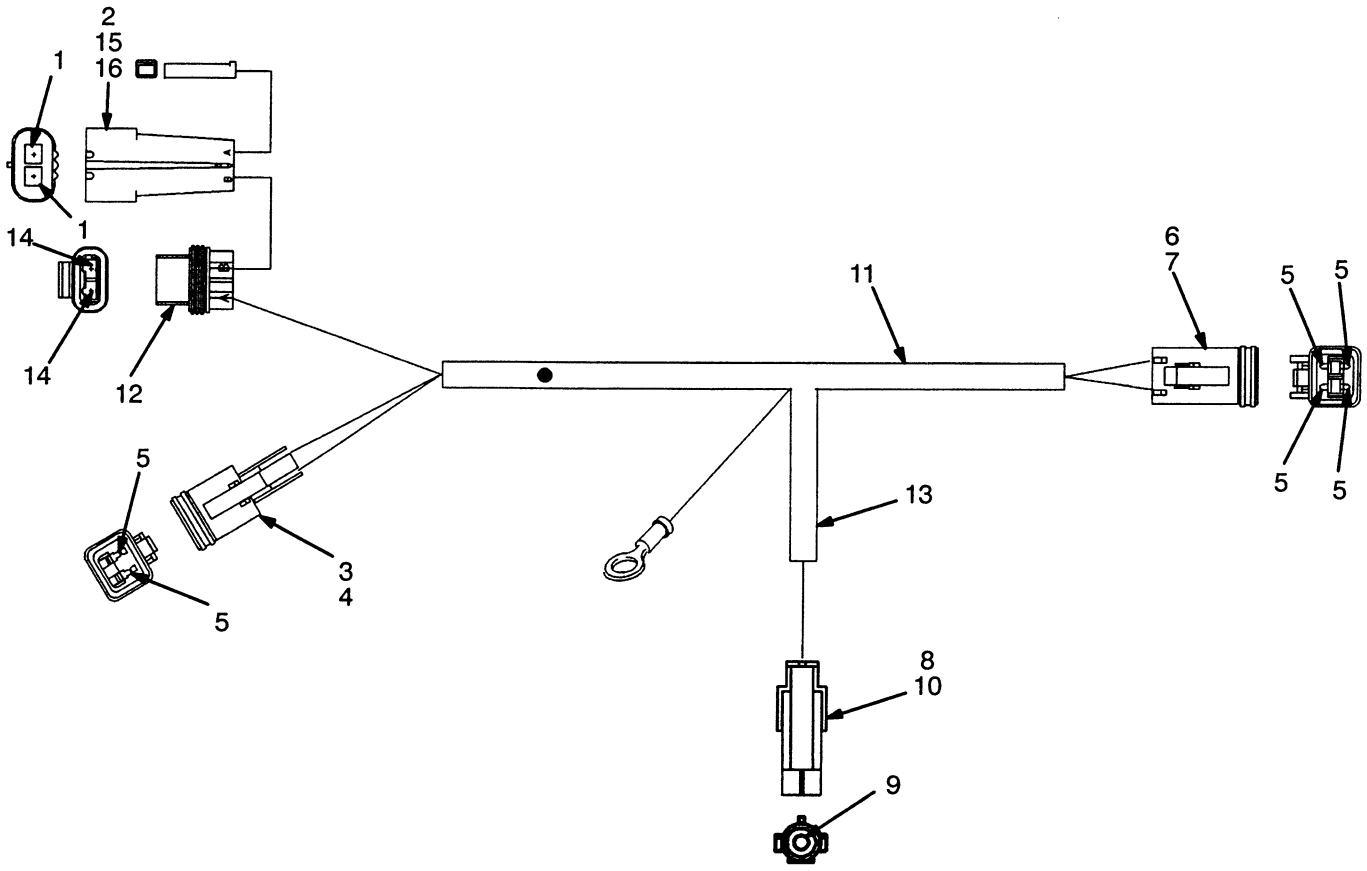
LPG 2.2L

REF	PART NO.	NAME OF PART	QTY
	1368930	Wire Harness	1
1	1347205	Connector (Distributor)	1
2	1347204	Connector (Distributor)	1
3	1323581	Plug	7
4	1330419	Connector (Alternator)	1
5	1330424	Lock	1
6	1363886	Socket	2
7	1327164	Plug	1
8	1323586	Connector (ECM Temperature Sender)	1
9	370730	Fitting	1
10	1330292	Plug	1
11	1330283	Terminal	3
12	1330298	Fitting	2
13	1334999	Pin	1
14	1330299	Fitting	4
15	1336173	Socket	3
16	1329147	Seal	1
17	1330423	Connector (Cluster Harness)	1
18	1330438	Socket	5
19	1330439	Plug	3
20	1330429	Lock	1
21	1323583	Socket	1
22	1330296	Fitting	5
23	1323579	Seal	7
24	1323580	Plug	1
25	1323576	Fitting	13
26	1323578	Fitting	3
27	1327958	Fitting	1
28	1330355	Terminal	1
29	1347210	Connector (Oil Pressure Light)	1
30	1330357	Lock	1
31	1330356	Seal	1

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HARNESS (Figure 135)

LPG FIELD CONVERSION 2.2L



REF	PART NO.	NAME OF PART	QTY
	1374623	Wire Harness	1
1	1337392	Terminal	2
2	1336874	Seal	1
3	1330419	Connector (Governor Solenoid Valve)	1
4	1330424	Lock	1
5	1330438	Terminal (Socket)	6
6	1330421	Connector (RPM Limiter)	1
7	1330427	Lock	1

REF	PART NO.	NAME OF PART	QTY
8	1330298	Connector (Tachometer)	1
9	1323578	Terminal	1
10	1323579	Seal	1
11	381919	Conduit	AR
12	1330292	Connector (Fuse)	1
13	30492	Conduit (175 mm)	1
14	1330283	Terminal	2
15	1336870	Connector	1
16	1336871	Lock	1

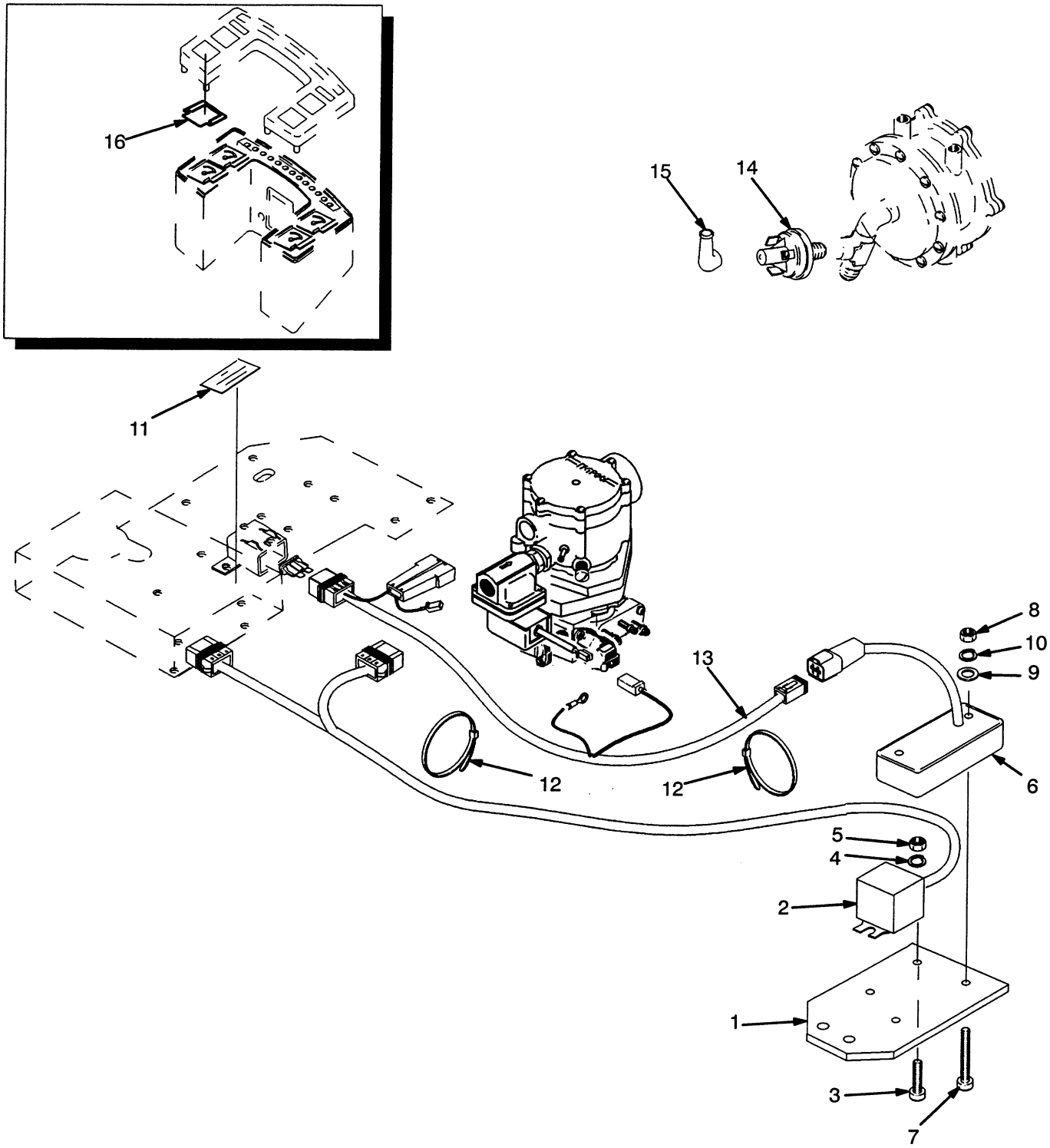
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NOTES

ELECTRICAL (Figure 136)

LPG FIELD CONVERSION 2.2L



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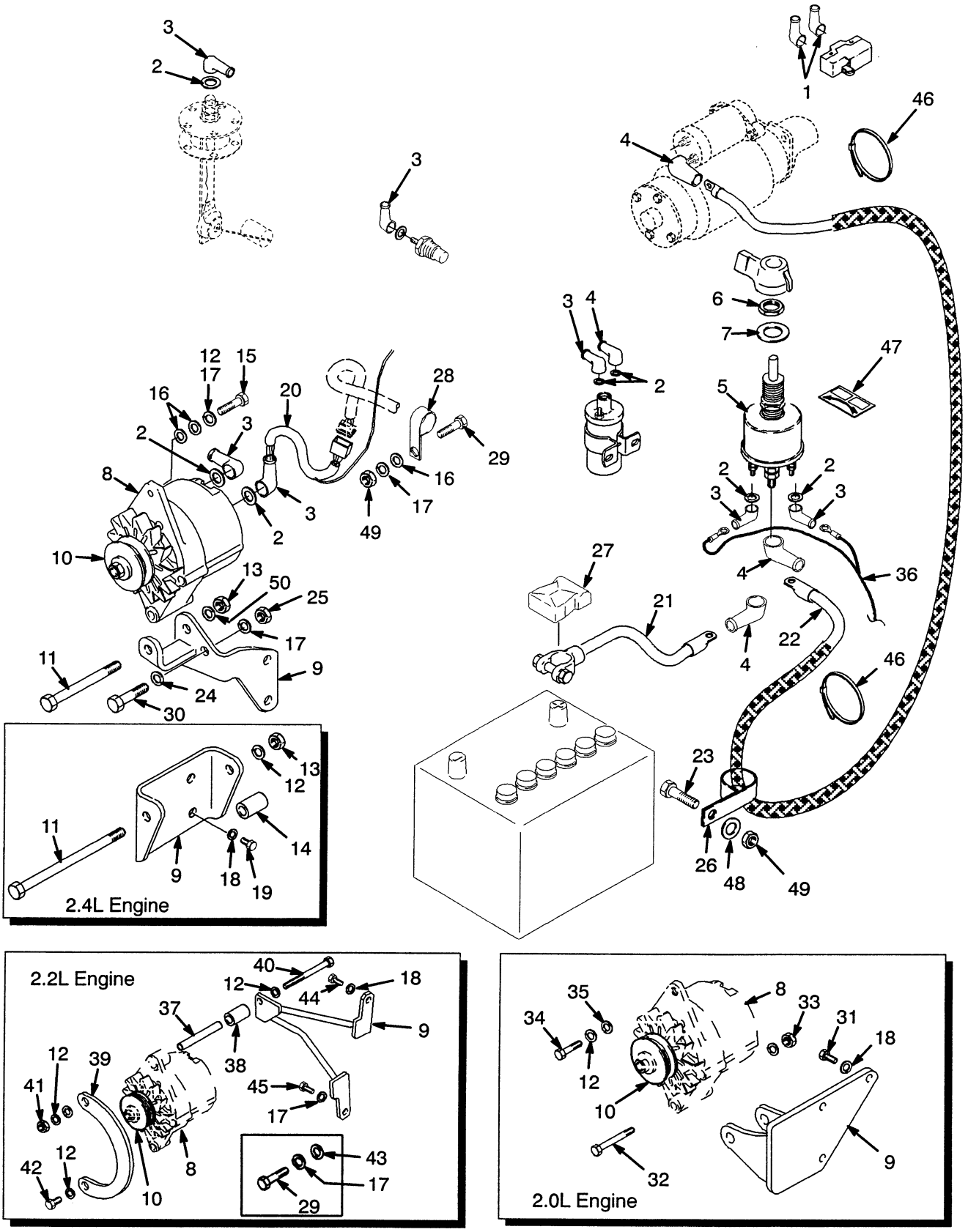
ELECTRICAL

LPG FIELD CONVERSION 2.2L

REF	PART NO.	NAME OF PART	QTY
1	864829	Bracket	1
2	1374622	Timing Optimizer	1
3	220289	Screw	2
4	15151	Lockwasher	2
5	15049	Nut	2
6	1354125	Rev Limiter Assembly	1
7	220314	Screw	2
8	15039	Nut	2
9	197066	Washer	2
10	15163	Lockwasher	2
11	864824	Label (Lockoff Solenoid Fuse)	1
12	137852	Strap Clamp	2
13	.....	Harness (LPG Conversion) ☞ Figure 135	1
14	1351133	Low Pressure Switch	1
15	190383	Boot	1
16	1365888	Cover	1

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ELECTRICAL (Figure 137)
TYPES GS, LPS, AND DS



ELECTRICAL

TYPES GS, LPS, AND DS

KEY:
A: Diesel 2.4L
B: Diesel 2.8L & 3.1L
C: Gasoline & LPG 2.0L
D: Gasoline & LPG 2.2L

REF		PART NO.	NAME OF PART	QTY A	B	C	D
1		387869	Boot	2	2	2	2
2		18500	Washer	3	3	5	2
3		190383	Boot	5	5	7	6
4		204223	Boot	3	3	4	4
5		1324517	Disconnect Switch	1	1	1	1
6		1352191	Nut	2	2	2	2
7		15136	Washer	1	1	1	1
8		.....	Alternator	1	1	1	1
			☞ Figure 147				
9		1352569	Alternator Bracket	1	..	..	..
9	c	1352571	Alternator Bracket	..	1	..	..
9	d	1383563	Alternator Bracket	..	1	..	..
9		1352189	Alternator Bracket	..	..	1	..
9		1352184	Alternator Bracket	..	..	..	1
10	e	353291	Pulley	1	..	1	..
10	g	1452145	Pulley	..	..	1	..
10	a	353291	Pulley	..	1	..	..
10	b	1373821	Pulley	..	1	..	..
10		1352188	Pulley	..	..	..	1
11		218585	Capscrew	1	..	..	..
11	c	221482	Capscrew	..	1	..	..
11	d	221487	Capscrew	..	1	..	..
12		15155	Washer	1	1	1	3
13	c	221705	Nut	1	1	..	..
13	d	145639	Nut	..	1	..	..
14		1352568	Spacer	1	..	..	..
15		221455	Capscrew	1	1	..	..
16		320157	Washer	1	..	..	..
16		198956	Washer	..	3	..	..
17		292681	Washer	1	2	..	3
18		292682	Washer	2	..	3	1
19		287503	Capscrew	2	..	..	..
20		1354227	Alternator Harness	1	..	..	..
20		1354228	Alternator Harness	..	1	..	..
20		2034902	Alternator Harness	..	..	1	1
21		1368061	Battery Cable	1	1	..	..
21		1368061	Battery Cable	..	..	1	1
22		121335	Battery Cable	1	1	..	..
22		1354209	Battery Cable	..	..	1	..
22		86377	Battery Cable	..	..	..	1
23		287851	Capscrew	1	..	..	1
24	c	320158	Washer	..	1	..	..
25	c	239503	Nut	..	1	..	..
25	d	239503	Nut	..	1	..	..
26		1310611	Clamp	1	1	..	..
26		1301721	Clamp	..	..	..	1
27		321158	Boot	1	1	1	1
28		1360146	Clamp	..	1	..	..
29		136749	Capscrew	..	1	..	1
30	c	292508	Capscrew	..	1	..	..
30	d	176640	Capscrew	..	1	..	..
31		287503	Capscrew	..	..	3	..
32		18518	Capscrew	..	..	1	..
33		145639	Nut	..	..	1	..
34		18497	Capscrew	..	..	1	..
35		18515	Washer	..	..	AR	..
36		1354229	Harness Disconnect Switch	..	..	..	1
37		1354248	Sleeve	..	..	..	1

CONTINUED ON NEXT PAGE

ELECTRICAL

TYPES GS, LPS, AND DS

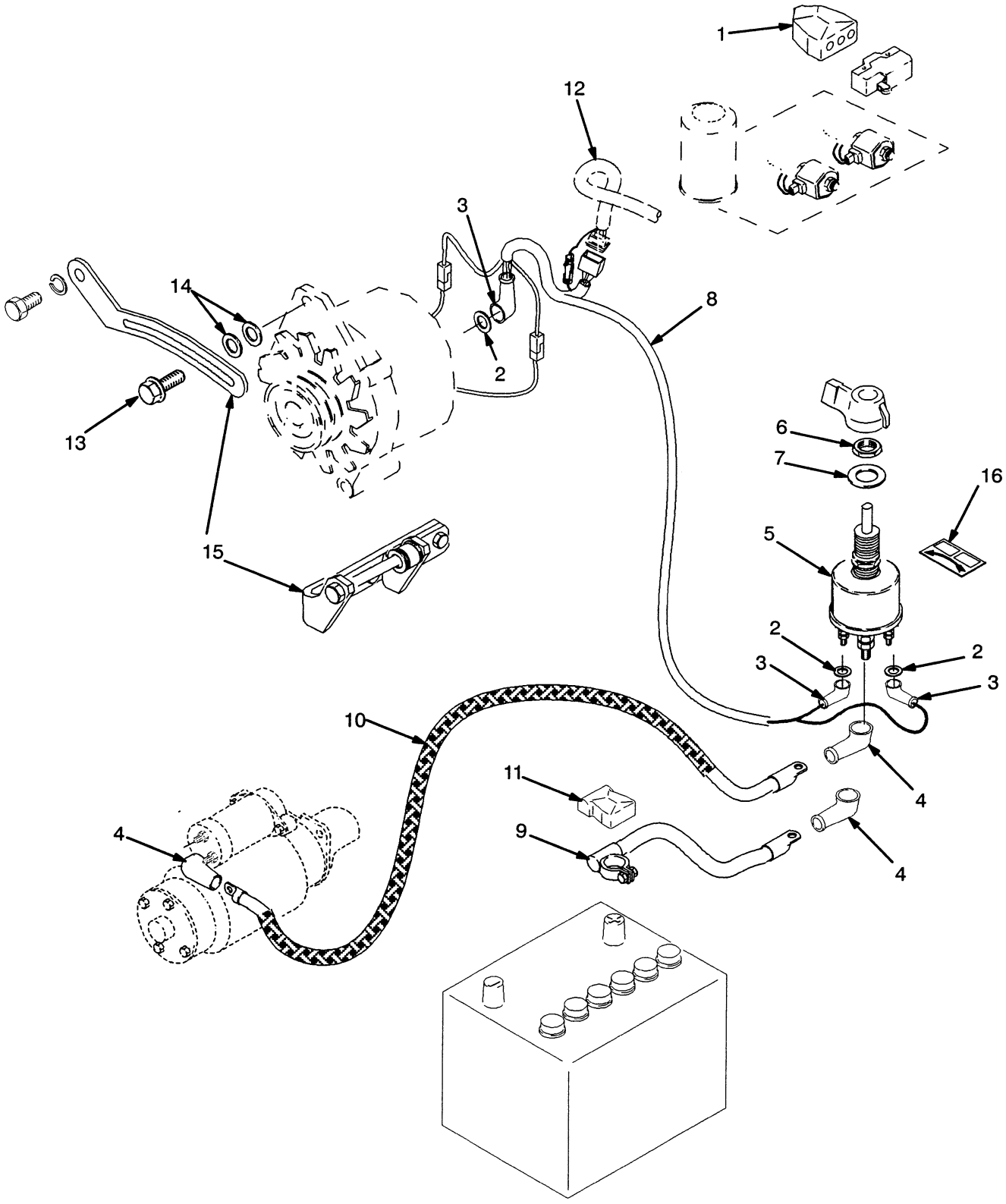
REF	PART NO.	NAME OF PART	QTY A	B	C	D
38	1352187	Spacer	..	..	..	1
39	1352185	Strap Bracket	..	..	..	1
40	18530	Capscrew	..	..	..	1
41	221705	Nut	..	..	..	1
42	18496	Capscrew	..	..	..	1
43	313828	Nut	..	..	..	1
44	292515	Capscrew	..	..	..	1
45	132861	Capscrew	..	..	..	1
46	273775	Strap Clamp	AR	AR	AR	AR
47	1352190	Label Battery Disconnect	1	1	1	1
48	320158	Washer	1	1	..	1
49	239503	Nut	1	1	..	1
50 d	198956	Washer	..	1	..	..

a 2.8L
b 3.1L
c Last Used On S/N D177B-32751
d First Used On S/N D177B-32752
e Last Used On S/N D177B-42119
g First Used On S/N D177B-42120

NOTES

ELECTRICAL (Figure 138)

TYPES GS AND LPS 3.0L



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ELECTRICAL

TYPES GS AND LPS 3.0L

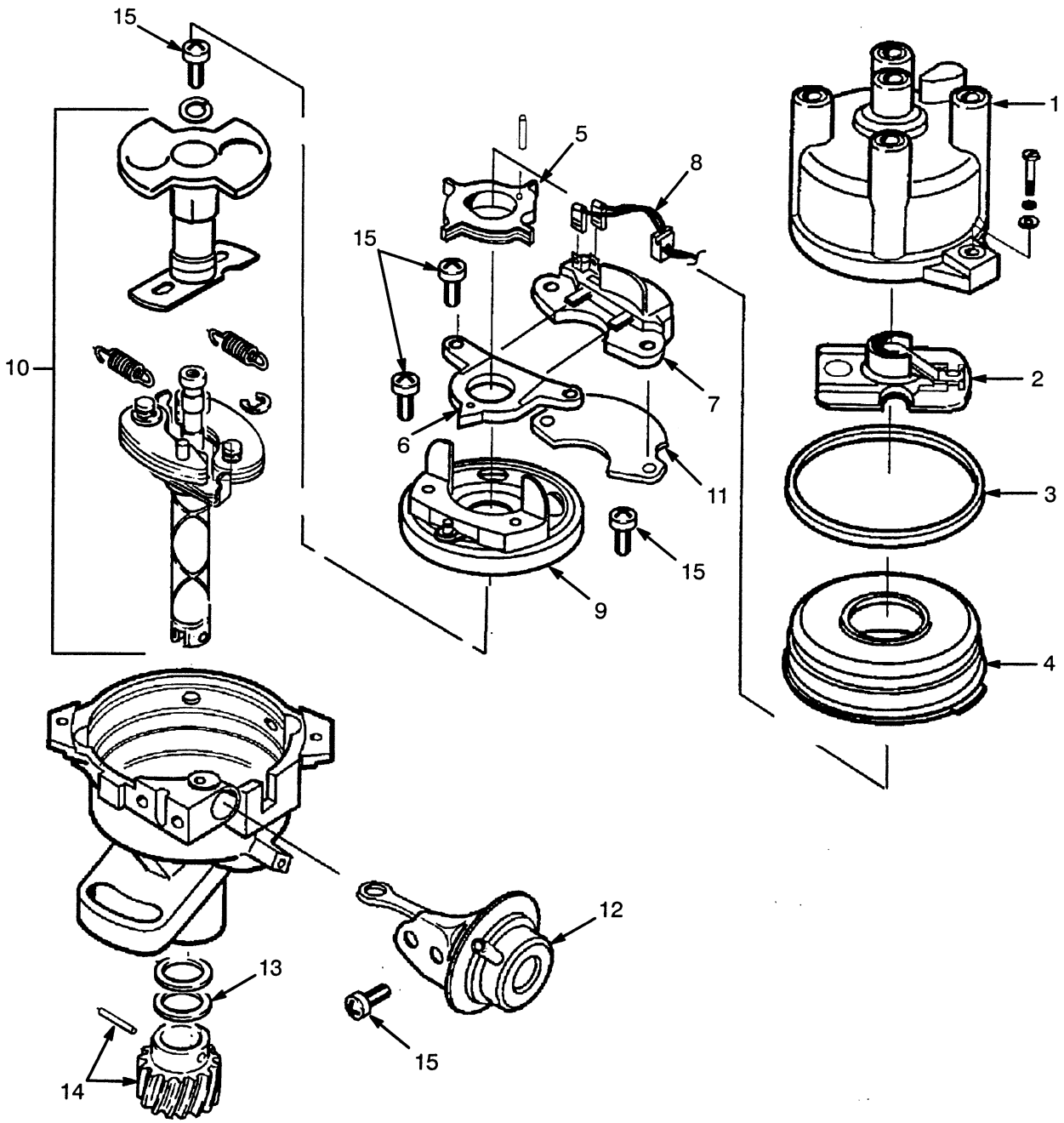
REF	PART NO.	NAME OF PART	QTY
1	190380	Boot	1
2	18500	Washer	3
3	190383	Boot	3
4	204223	Boot	3
5	1324517	Disconnect Switch	1
6	1352191	Nut	2
7	15136	Washer	1
8	1377867	Harness (Alternator)	1
9	1368061	Battery Cable	1
10	1376654	Battery Cable	1
11	257241	Boot	1
12	.....	Engine Harness ☞ Figure 126, Figure 129	1
13	170554	Screw	1
14	18515	Washer	2
15	.....	Mount (Alternator) ☞ Figure 143	1
16	1352190	Label (Battery Disconnect)	1

a Last Used On S/N D177B-42119
b First Used On S/N D177B-42120

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DISTRIBUTOR (Figure 139)

GASOLINE AND LPG 2.0L



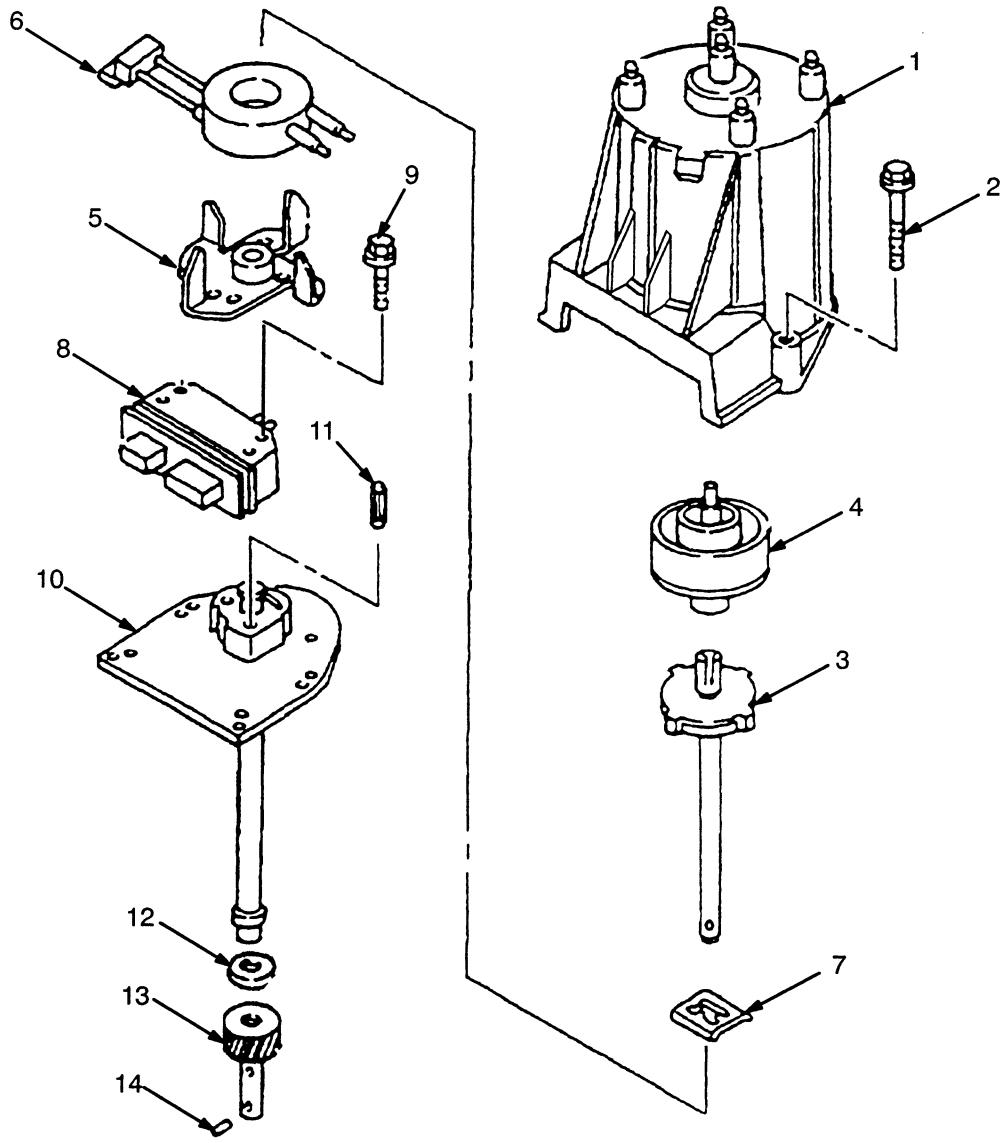
REF	PART NO.	NAME OF PART	QTY
	1453562	Distributor	1
1	1326394	Cap	1
2	1326395	Rotor	1
3	1326396	Packing	1
4	1326397	Cover	1
5	1326398	Signal Rotor	1
6	1326399	Pick-Up Set	1
7	1326536	Igniter Set	1
8	1362037	Lead Wire	1
9	1326537	Breaker	1
10	1362036	Governor Set	1
11	1326538	Heatsink	1
12	1362038	Vacuum Set	1
13	1362039	Oil Seal	1
14	1362042	Coupling	1
15	1362040	Screw Set	1

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DISTRIBUTOR (Figure 140)

GASOLINE AND LPG 3.0L



REF		PART NO.	NAME OF PART	QTY
		1331330	Distributor	1
1	a	1334400	Cap	1
2		1334401	Screw	2
3		1334402	Shaft	1
4	a	1334403	Rotor	1
5		1334404	Pole Piece	1
6		1334405	Coil	1
7		1334406	Retainer	1
8		1334407	Module	1
9		1334408	Screw	2
10		1334409	Housing	1
11		1334410	Pin	1
12		1334411	Seal	1
13		1334412	Gear	1
14		1334413	Pin	1

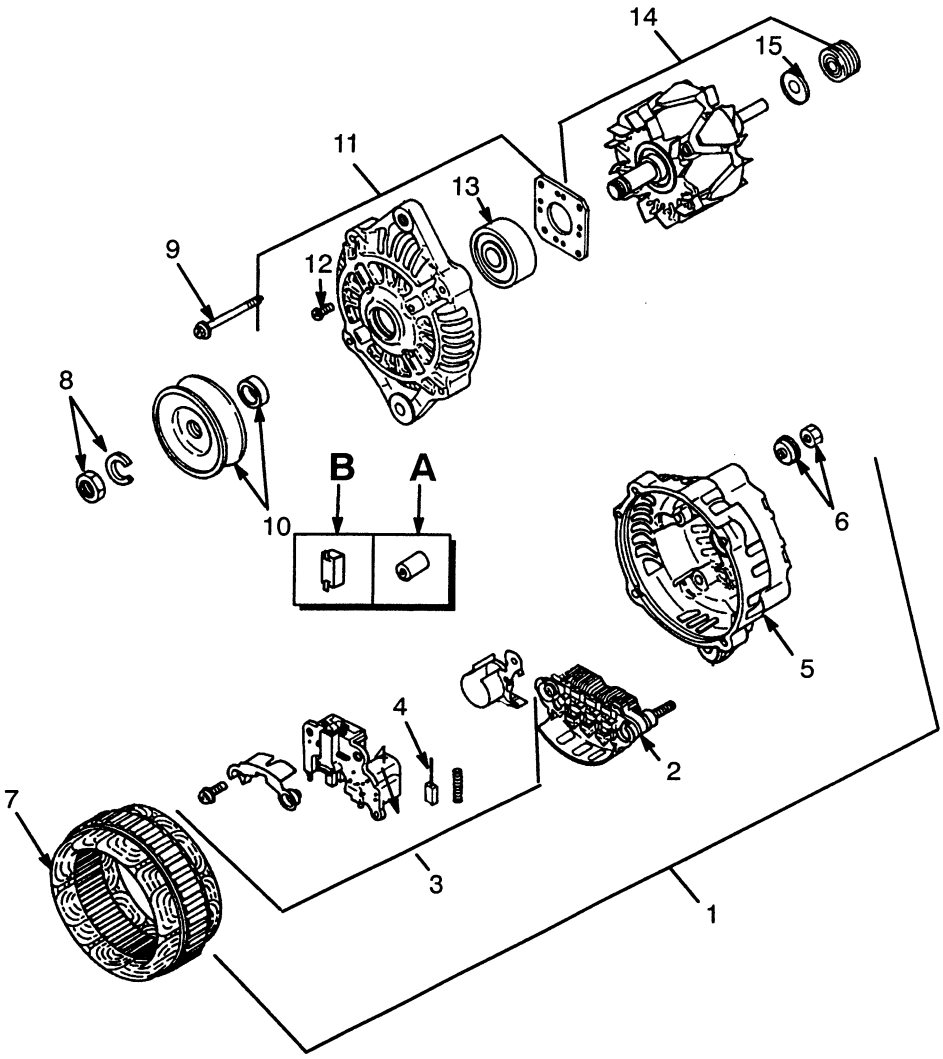
a Included In Minor Tune-Up Kit 996336

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ALTERNATOR (Figure 141)

GASOLINE AND LPG 2.0L



KEY:
A: Canister Condensor
B: Resin Condensor

REF	PART NO.	NAME OF PART	QTY A	QTY B
	1361853	Alternator	1	..
	1450928	Alternator	..	1
1	1361851	Rear Cover	1	..
1	1450929	Rear Cover	..	1
2	1361856	Rectifier	1	..
2	1450930	Rectifier	..	1
3	1361858	Regulator	1	..
3	1450931	Regulator	..	1
4	1361859	Brush	2	2
5	1361852	Cover	1	1
6	1361862	Nut Kit	1	1
7	1361854	Stator	1	1
8	1361863	Nut Kit	1	1
9	1361864	Screw Kit	1	1
10	1361861	Pulley	1	1
11	1361850	Front Cover	1	1
12	1361860	Screw Kit	1	1
13	1361857	Bearing	1	1
14	1361865	Rotor	1	1
15	1361855	Bearing	1	1

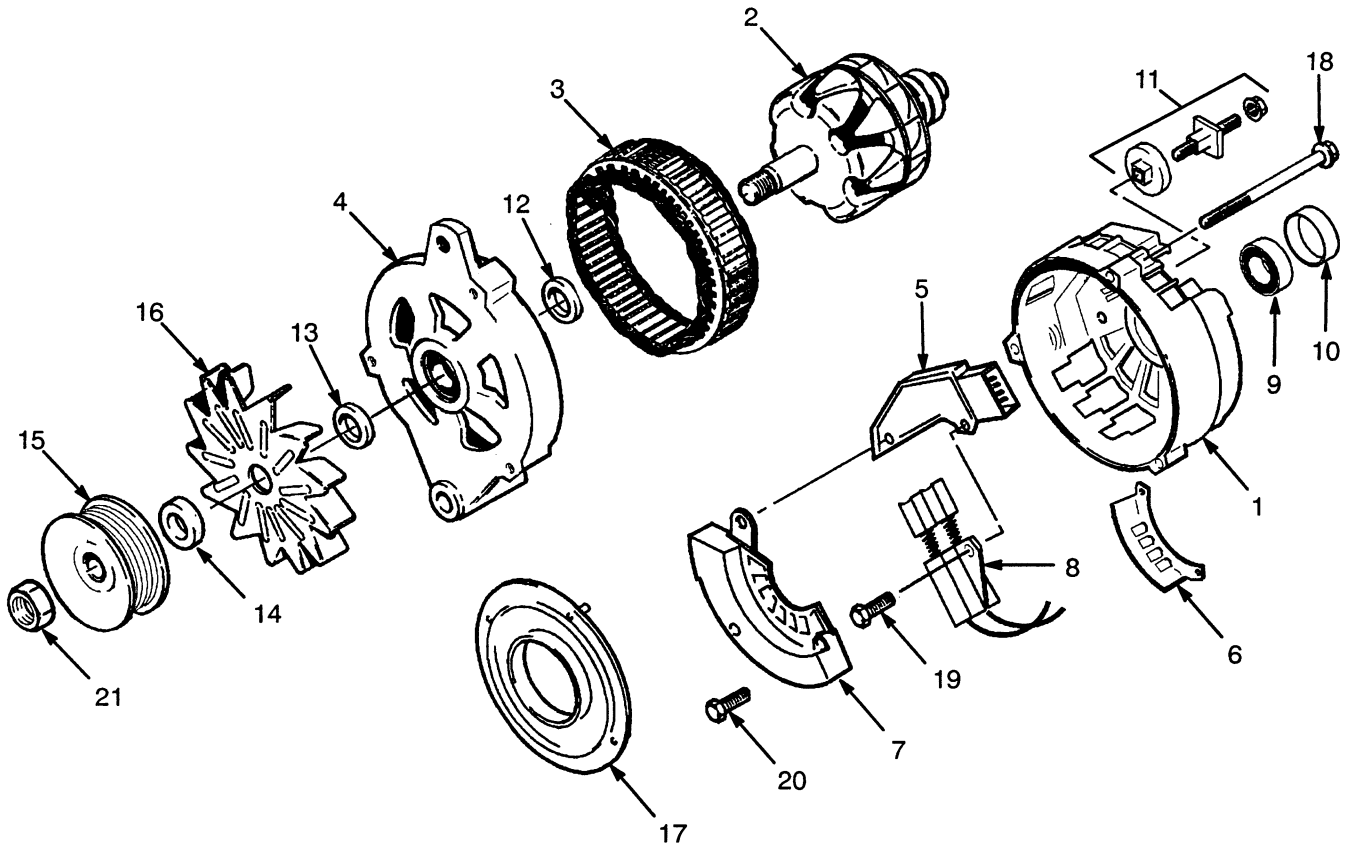
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ALTERNATOR (Figure 142)

GASOLINE AND LPG 2.2L



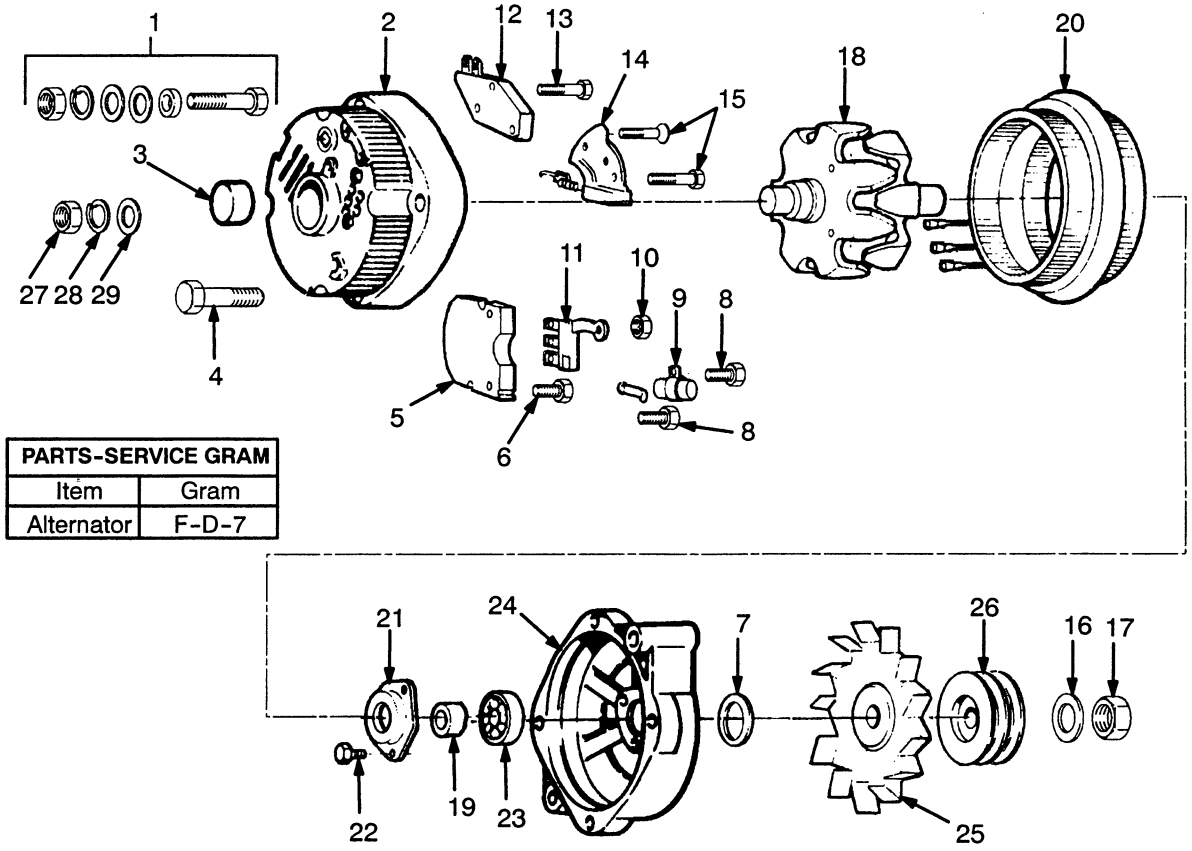
REF	PART NO.	NAME OF PART	QTY
	1339174	Alternator	1
1	1358837	Frame	1
2	1358838	Rotor	1
3	1358839	Stator	1
4	1358840	Frame & Bearing	1
5	1358841	Regulator	1
6	1358842	Cover	1
7	1358843	Rectifier Bridge	1
8	1358844	Brush & Holder	1
9	1358845	Ball Bearing	1
10	1358846	Ring	1
11	1358847	Terminal Set	1
12	1358848	Inside Collar	1
13	1358849	Outside Collar	1
14	1358850	Collar	1
15	1358851	Pulley	1
16	1358852	Fan	1
17	1358853	Baffle	1
18	1358854	Bolt	3
19	1358855	Screw	1
20	1358856	Screw	1
21	55580	Nut	1
21	383789	Adhesive	AR

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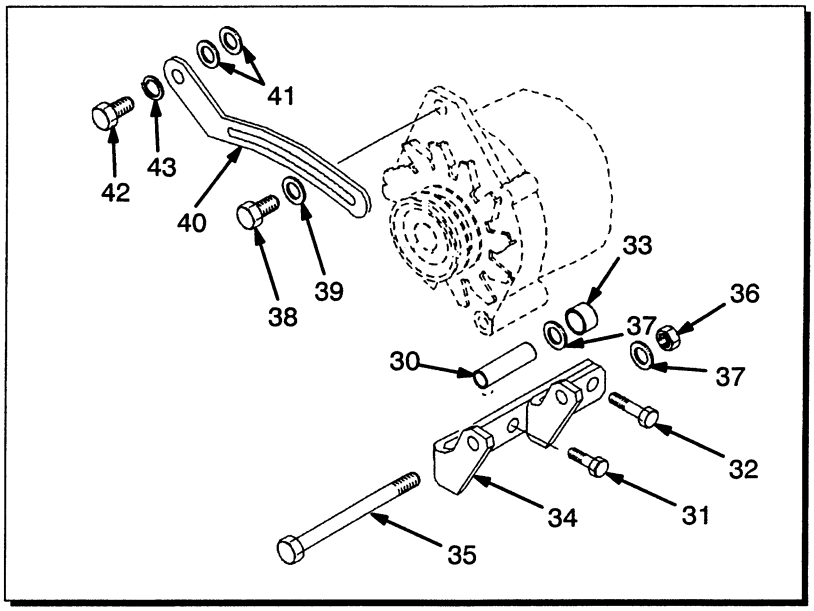
ALTERNATOR (Figure 143)

GASOLINE AND LPG 3.0L

LAST USED ON S/N D177B41709



PARTS-SERVICE GRAM	
Item	Gram
Alternator	F-D-7



ALTERNATOR

GASOLINE AND LPG 3.0L

LAST USED ON S/N D177B41709

REF	PART NO.	NAME OF PART	QTY
[a]	339599	Alternator	1
1	310081	Battery Terminal Kit	1
2	343038	Frame (CE)	1
3	128838	Bearing	1
4	128852	Bolt	4
5	343031	Rectifier	1
6	343032	Screw & Washer	1
7	322177	Collar	1
8	198410	Screw	2
9	198401	Capacitor	2
10	15039	Nut	3
11	343040	Diode Trio	1
12	290303	Voltage Regulator	1
13	343042	Screw	1
14	343041	Brush Assy	1
14	334970	Brush Spring	2
15	268356	Screw	2
16	128835	Washer	1
17	55580	Nut	1
18	343046	Rotor	1
19	343029	Collar	1
20	343039	Stator	1
21	202003	Retainer	1
22	344234	Screw	3
23	290509	Bearing	1
24	343033	Frame (DE)	1
25	126358	Fan	1
26	208483	Pulley	1
27	136687	Nut	1
28	292680	Lockwasher	1
29	320156	Washer	1
30	305100	Sleeve	1
31	197853	Capscrew	1
32	196898	Capscrew	1
33	189338	Spacer	1
34	179920	Bracket	1
35	18546	Capscrew	1
36	139743	Nut	1
37	261379	Washer	2
38	176640	Screw	1
39	320157	Washer	1
40	1326931	Strap	1
41	18515	Washer	2
42	18498	Capscrew	1
43	15155	Lockwasher	1

[a] Remanufactured Alternator 3012611 R

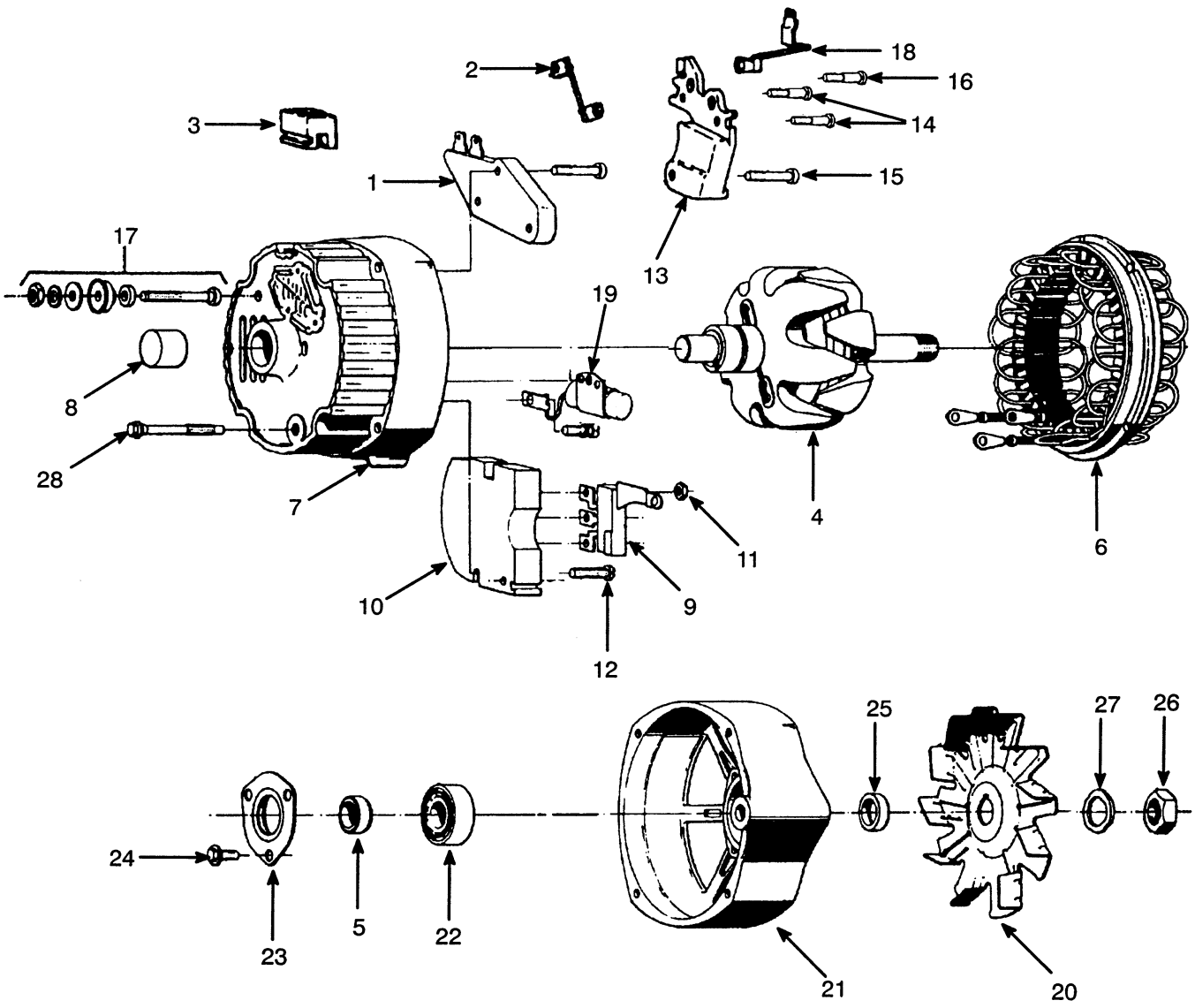
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ALTERNATOR (Figure 144)

GASOLINE AND LPG 3.0L

FIRST USED ON S/N D177B-41710



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ALTERNATOR

GASOLINE AND LPG 3.0L

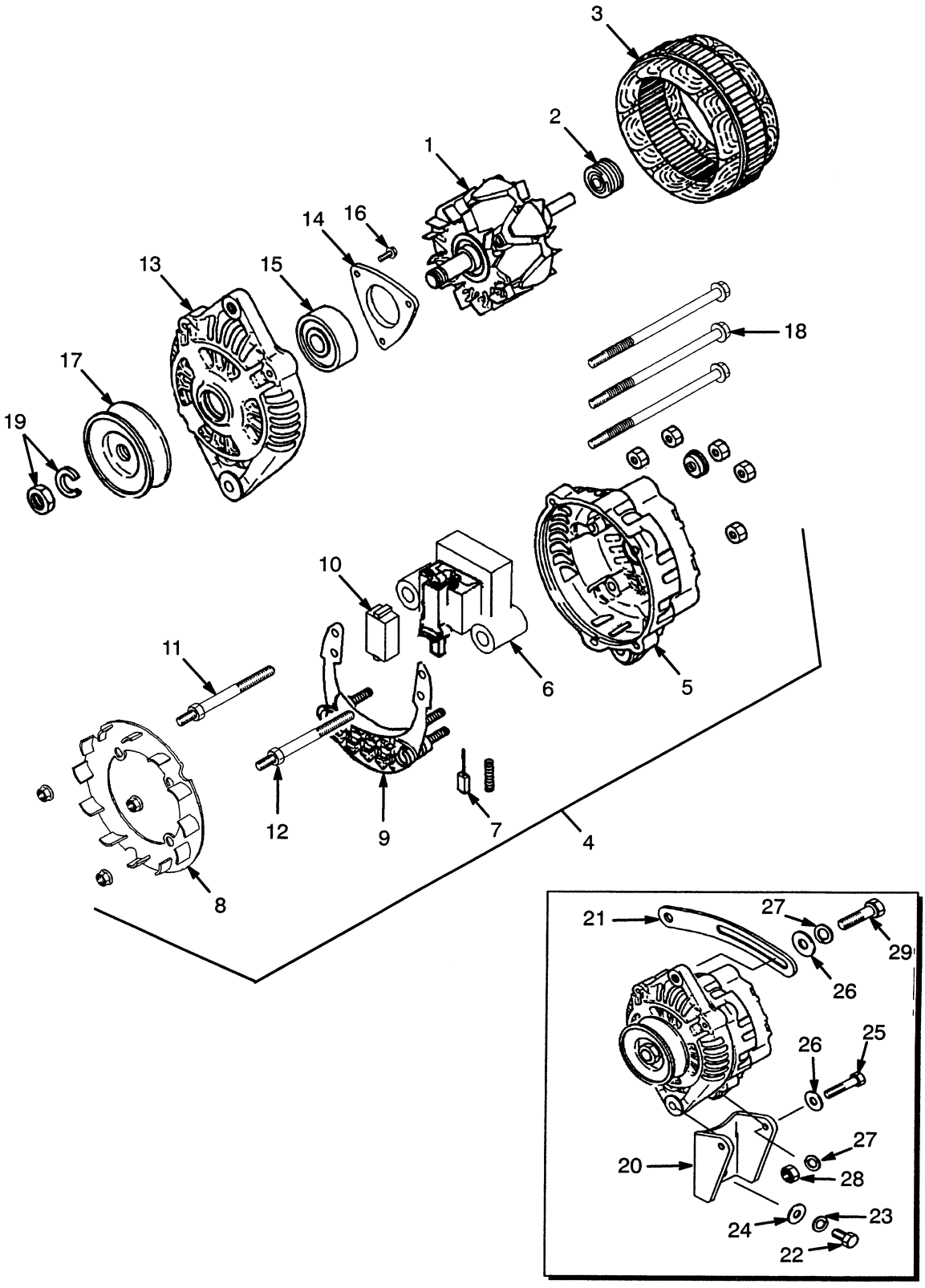
FIRST USED ON S/N D177B-41710

REF	PART NO.	NAME OF PART	QTY
	1358911	Alternator	1
1	290303	Regulator	1
2	1377067	Resistor	1
3	274648	Boot	1
4	1377047	Rotor	1
5	343029	Collar (DE)	1
6	1377048	Stator	1
7	310085	Frame (CE)	1
8	290508	Bearing (CE)	1
9	223095	Diode Trio	1
10	343031	Rectifier Bridge	1
11	1344274	Nut	3
12	343032	Screw & Washer	1
13	290300	Brush Holder	1
13	1377050	Brush Spring	2
14	268356	Screw (Brush)	2
15	290369	Screw (Brush Holder)	1
16	290370	Screw (Brush Holder)	1
17	310081	Kit-Terminal	1
18	344233	Terminal Relay	1
19	1377052	Capacitor	1
20	1377051	Fan	1
21	1377049	Frame	1
22	290509	Ball Bearing	1
23	1377053	Plate	1
24	344234	Screw (Retaining Plate)	3
25	310088	Collar (DE)	1
26	55580	Nut	1
27	128835	Lock Washer	1
28	128852	Bolt	4

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ALTERNATOR (Figure 145)

DIESEL 2.4L



ALTERNATOR

DIESEL 2.4L

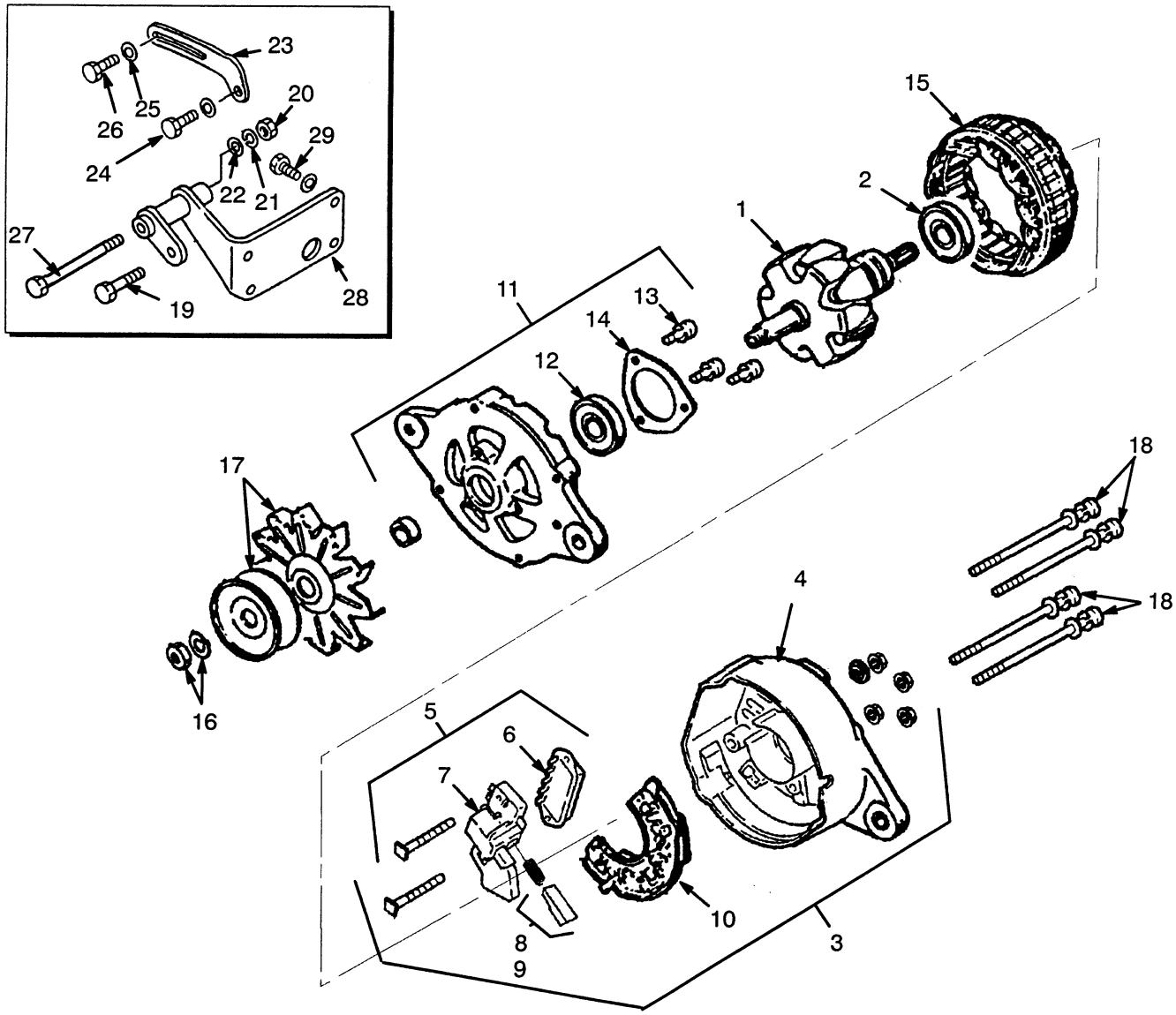
REF	PART NO.	NAME OF PART	QTY
1	1361137	Alternator	1
1	1363018	Rotor	1
2	1363019	Ball Bearing	1
3	1363020	Stator	1
4	1363021	Housing Assembly (Rear)	1
5	1363022	Housing (Rear)	1
6	1363023	Regulator	1
7	1363024	Kit-Brush	2
8	1365250	Fan	1
9	1365251	Diode	1
10	1365252	Condenser	1
11	1365253	Bolt	1
12	1365254	Bolt	1
13	1365255	Housing Assembly (Front)	1
14	1365256	Retainer	1
15	1365257	Ball Bearing	1
16	1365258	Kit-Screw	1
17	1365259	Pulley	1
18	1365260	Bolt	3
19	1365261	Nut	1
20	1361138	Bracket	1
21	1361539	Strap	1
22	287503	Hex Head Bolt	2
23	292682	Lockwasher	2
24	320159	Washer	2
25	292508	Hex Head Bolt	2
26	320157	Washer	3
27	292681	Lockwasher	3
28	239503	Nut	2
29	136749	Hex Head Bolt	1

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ALTERNATOR (Figure 146)

DIESEL 2.8L AND 3.1L



ALTERNATOR

DIESEL 2.8L AND 3.1L

REF	PART NO.	NAME OF PART	QTY
	1360815	Alternator	1
1	1362459	Rotor	1
2	1362460	Ball Bearing	1
3	1362462	Cover (Rear)	1
4	1362463	Cover	2
5	1362464	Regulator	1
6	1362465	Regulator	1
7	1362467	Brush Assembly	1
8	1374972	Packing	1
9	1362468	Brush Set	1
10	1362466	Diode	1
11	1362469	Cover (Front)	1
12	1362471	Ball Bearing	1
13	1374973	Screw Kit	1
14	1362470	Retainer	1
15	1362461	Stator	1
16	1363000	Nut	1
17	1362472	Pulley	1
18	1300892	Bolt	4
19 a	324248	Bolt	1
19 b	1338754	Bolt	1
20	239503	Nut	1
21	292681	Lockwasher	1
22	296418	Washer	1
23	1338473	Adjusting Strap	1
24 a	1338456	Bolt	1
24 b	1338456	Bolt	1
25	324434	Washer	1
26 a	1338456	Bolt	1
26 b	1338754	Bolt	1
27	324248	Bolt	1
28	1361548	Bracket	1
29	1333587	Bolt	4

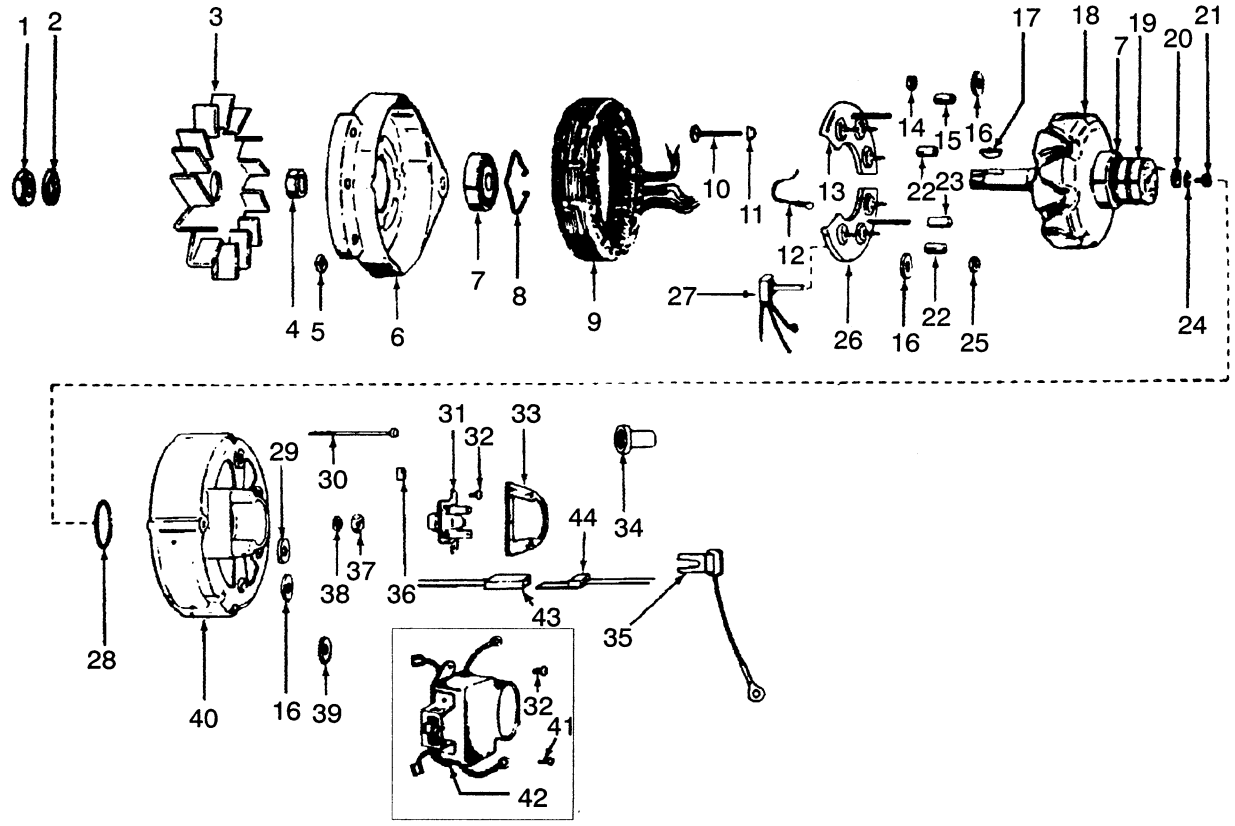
a 2.8L
b 3.1L

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ALTERNATOR (Figure 147)

TYPES GS, LPS, AND DS

LAST USED ON S/N D177B-42119



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ALTERNATOR

TYPES GS, LPS, AND DS

LAST USED ON S/N D177B-42119

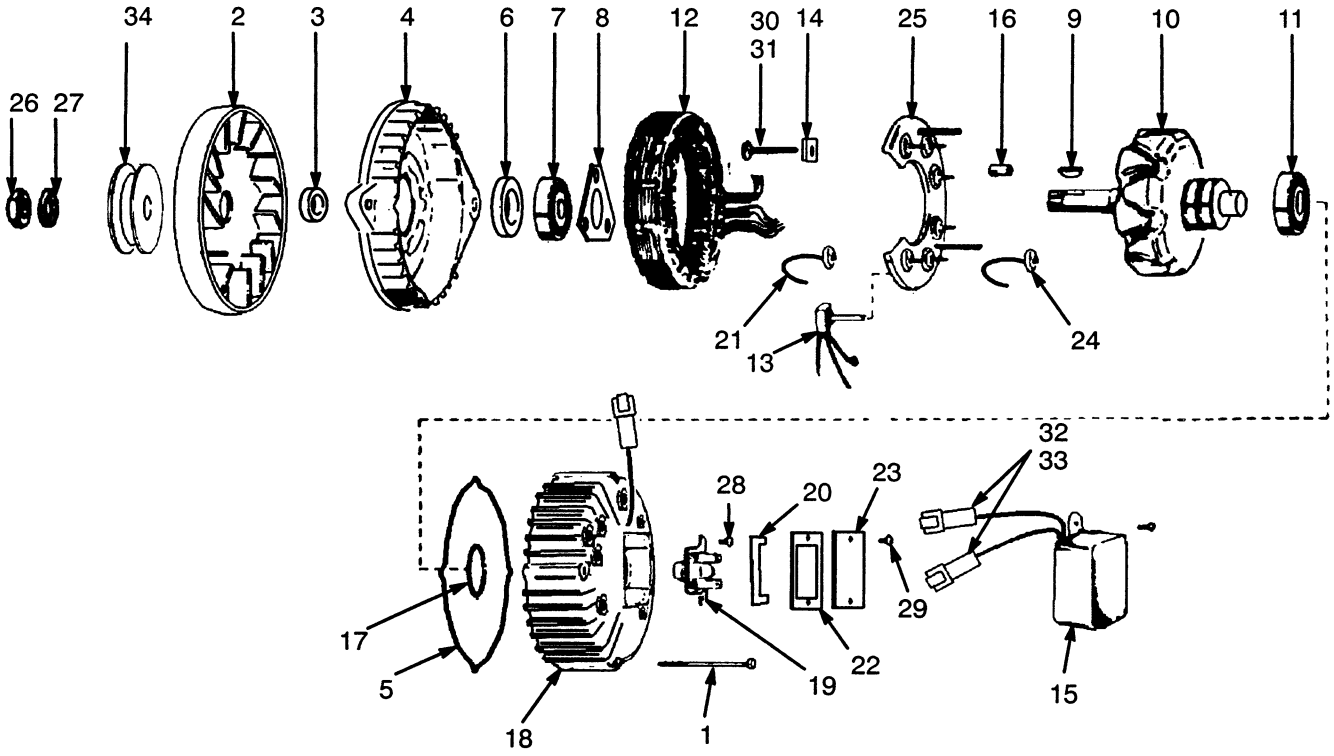
REF	PART NO.	NAME OF PART	QTY
	388501	Alternator	1
1	248147	Nut	1
2	246943	Lockwasher	1
3	248127	Fan	1
4	248135	Fan Spacer	1
5	248148	Square Nut	3
6	....	Housing	1
7	248128	Bearing	2
8	248129	Retainer	1
9	382633	Stator	1
10	255073	Bolt	1
11	226589	Insulator	1
12	382638	Cable	1
13	382635	Diode (-)	1
14	15052	Nut	4
15	382644	Sleeve	1
16	248143	Washer	5
17	246944	Key	1
18	382632	Rotor	1
19	248137	Slip Ring	1
20	....	Washer	3
21	248149	Screw	1
22	248141	Sleeve	1
23	382643	Sleeve	1
24	15152	Lockwasher	3
25	382646	Nut	2
26	382636	Diode (+)	1
27	382639	Diode (Field)	1
28	382634	Retainer	1
29	382642	Washer	2
30	382641	Bolt	4
31	248134	Brush	1
32	387488	Screw	4
33	382637	Gasket	1
34	255073	Bolt	2
35	382647	Capacitor	1
36	248145	Locknut	3
37	248146	Nut	2
38	246942	Lockwasher	2
39	382642	Insulator	1
40	.....	Housing	1
41	18082	Capscrew	2
42	382640	Regulator	1
43	181046	Connector	1
44	134812	Connector	1

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ALTERNATOR (Figure 148)

TYPES GS, LPS, AND DS

FIRST USED ON S/N D177B-42120



ALTERNATOR

TYPES GS, LPS, AND DS

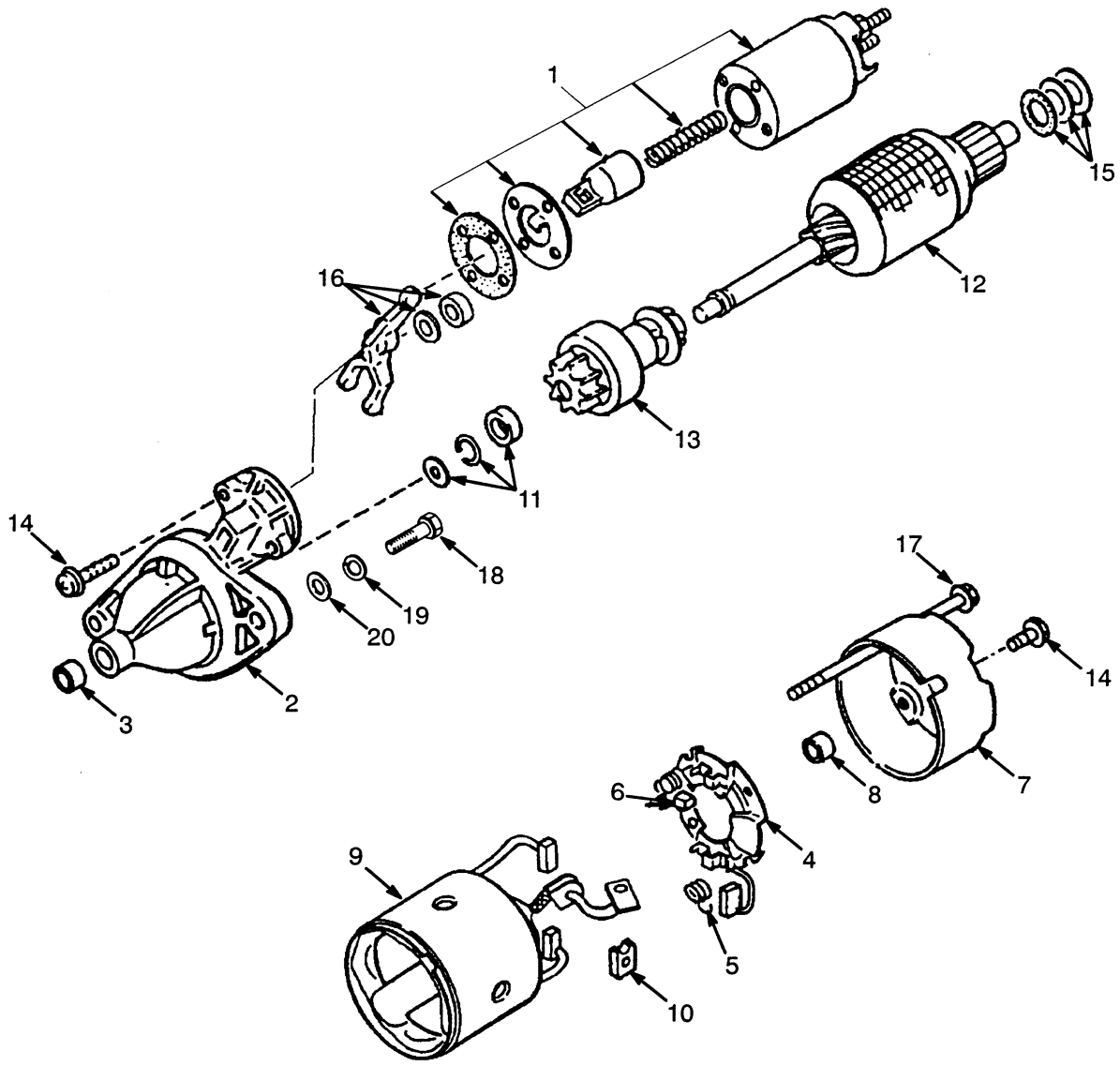
FIRST USED ON S/N D177B-42120

REF	PART NO.	NAME OF PART	QTY
	1394002	Alternator (Altered)	1
	1394003	Alternator	1
1	1453364	Bolt	4
2	225673	Fan	1
3	1453352	Spacer	1
4	1453351	Front Housing	1
5	226582	Gasket	1
6	1453358	Seal	1
7	248128	Front Bearing	1
8	226576	Retainer	1
9	1453354	Woodruff Key	1
10	1371208	Rotor	1
11	386071	Rear Bearing	1
12	1371209	Stator	1
13	2022532	Diode (Field)	1
14	1371214	Insulation	1
15	1453386	Voltage Regulator	1
16	1371212	Sleeve	1
17	1371211	Retainer	1
18	295802	Rear Housing	1
19	2022534	Brush Assembly	1
20	2022535	Insulation	1
21	226584	Diode (+)	1
22	1453387	Gasket	1
23	2022538	Brush Cover	1
24	226583	Diode (-)	1
25	226578	Heat Sink	1
26	1453375	Nut	1
27	1453385	Lockwasher	1
28	1453377	Screw	2
29	1453379	Screw	2
30	1453362	Bolt (1.38 in)	1
31	1453363	Bolt (1.75 in)	1
32	181045	Connector	1
33	181046	Connector	1
34	.....	Pulley	1
		☞ Figure 137, Figure 138	

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STARTER (Figure 149)

GASOLINE AND LPG 2.0L



REF	PART NO.	NAME OF PART	QTY
a	1362069	Starter	1
1	1368862	Switch	1
2	1368849	Bracket	1
3	1368858	Sleeve	1
4	1368860	Brush Holder	1
5	326889	Brush Spring	3
6	1368861	Brush	1
7	1368857	Bracket	1
8	1368859	Sleeve	1
9	1368848	Yoke	1
10	1368863	Brush	2
11	1368850	Stopper Set	1

REF	PART NO.	NAME OF PART	QTY
12	1368851	Armature	1
13	1368852	Clutch	1
14	1368853	Screw Kit	1
15	1368854	Washer Kit	1
16	1368855	Lever	1
17	1368856	Bolt	2
18	1356103	Bolt	2
19	292682	Lockwasher	2
20	320159	Washer	2

a Service 1362069 with 2034921

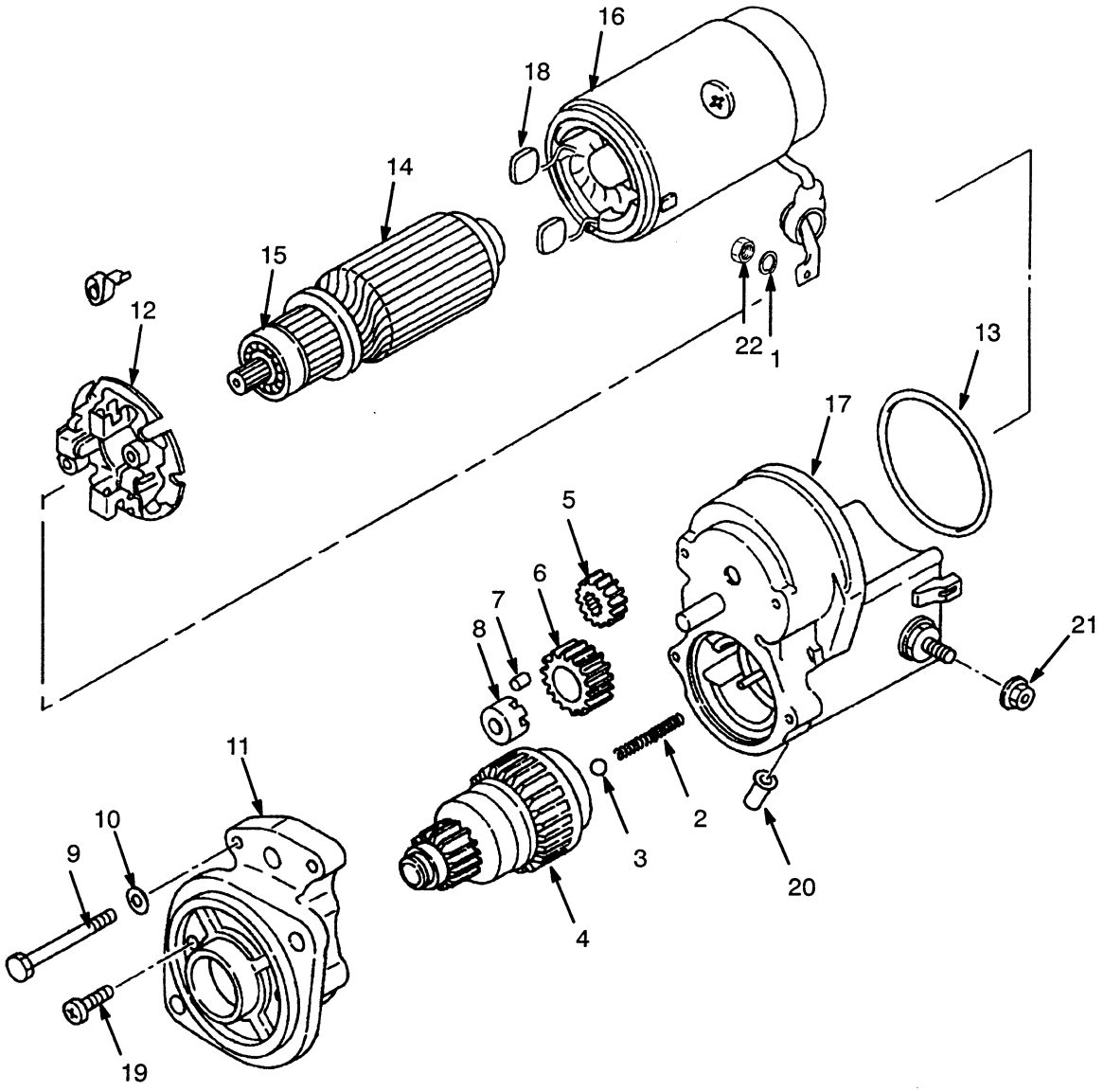
Note: Service 2034921 As A Complete Assembly

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STARTER (Figure 150)

DIESEL 2.4L, 2.8L AND 3.1L



REF	PART NO.	NAME OF PART	QTY
	1347064	Starter	1
1	292681	Lockwasher	1
2	324636	Spring	1
3	324637	Ball	1
4	324638	Drive	1
5	324632	Pinion	1
6	1357048	Gear	1
7	324634	Roller	5
8	324635	Retainer	1
9	1357179	Screw	2
10	1357178	Washer	2
11	1357180	Housing	1

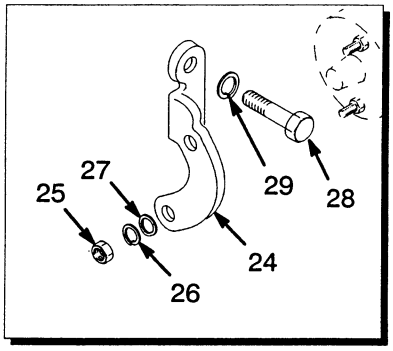
REF	PART NO.	NAME OF PART	QTY
12	1357176	Brush Holder	1
12	326986	Spring	4
13	1357049	Washer	1
14	1367100	Armature	1
15	1367102	Bearing	1
16	1357046	Housing	1
17	1367103	Solenoid	1
18	1367101	Brush	2
19	1367106	Bolt	2
20	1367107	Plug	1
21	1367104	Nut	1
22	324314	Nut	1

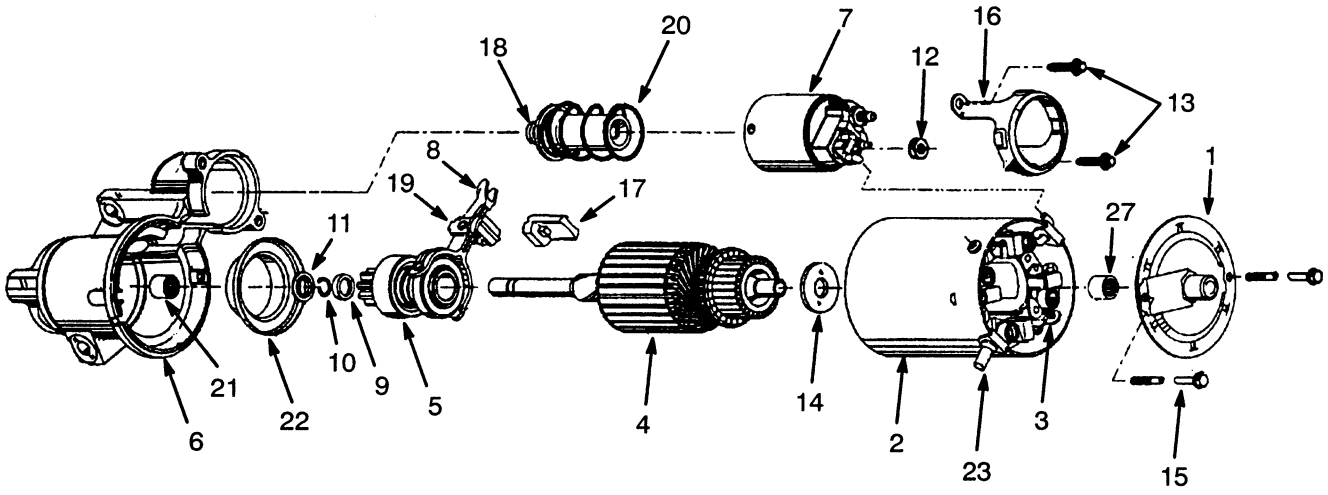
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See Service Manual for service procedures

STARTER (Figure 151)

GASOLINE AND LPG 2.2L AND 3.0L





STARTER

GASOLINE AND LPG 2.2L AND 3.0L

KEY:
A: Gasoline & LPG 2.2L
B: Gasoline & LPG 3.0L

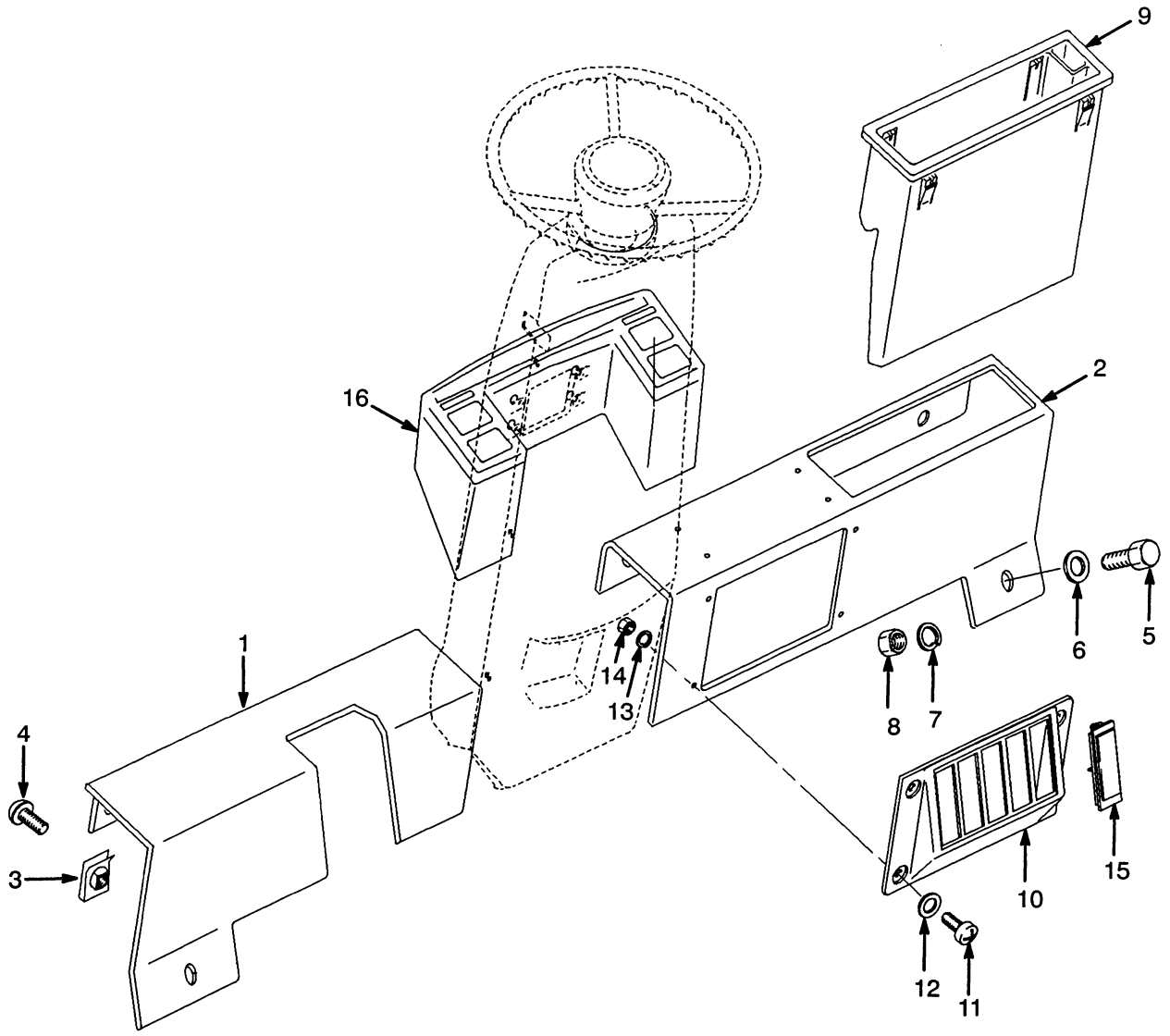
REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	1358859	Starter	1	..
	a	1374621	Starter	..	1
	bc	1450122	Starter	1	..
	bc	1391321	Starter	..	1
	d	1457048	Starter	1	..
	d	1457047	Starter	..	1
1	ac	1358861	CE Frame	1	..
1	ac	1383999	CE Frame	..	1
2	ac	1358863	Frame & Brushes	1	..
2	ac	1384037	Frame & Brushes	..	1
3	ac	1358864	Grommet	1	1
4	ac	1358865	Armature	1	..
4	ac	1384000	Armature	..	1
5	ac	1358866	Drive Gear	1	1
6	ac	1358867	Housing (DE)	1	..
6	ac	1384001	Housing (DE)	..	1
7	ac	1358868	Solenoid Switch	1	1
8	ac	1358869	Shift Lever	1	1
9	ac	97499	Collar	1	1
10	ac	97498	Retainer Ring	1	1
11	ac	97497	Washer	1	1
12	ac	1358870	Nut	1	1
13	ac	1358871	Screw	2	2
14	ac	1358872	Washer	1	1
15	ac	1358873	Thru Bolt	2	2
15	ac	1362084	Thru Bolt	..	2
16	ac	1358874	Solenoid Clamp	1	1
17	ac	1358875	Plug	1	1
18	ac	1358876	Plunger	1	1
19	ac	1358877	Retainer	1	1
20	ac	1358878	Spring	1	1
21	ac	1358862	Bearing	..	2
22	ac	1384005	Shield	..	2
23	ac	1384003	Tube	..	1
24	ac	1338283	Bracket	1	..
25	ac	15052	Nut	2	..
26	ac	15152	Washer	2	..
27	ac	197067	Washer	2	..
28	ac	293631	Capscrew	2	..
29	ac	292682	Washer	6	..

a Last Used On Date Code 9/10/96
b First Used On Date Code 9/10/96
c Last Used On Date Code 12/12/97
d First Used On Date Code 12/12/97

Note: Service 1391321 And 1450122 As Complete Assemblies
Note: Service 1391321 With 1457047 And Bracket 1457120

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INSTRUMENT PANEL (Figure 152)



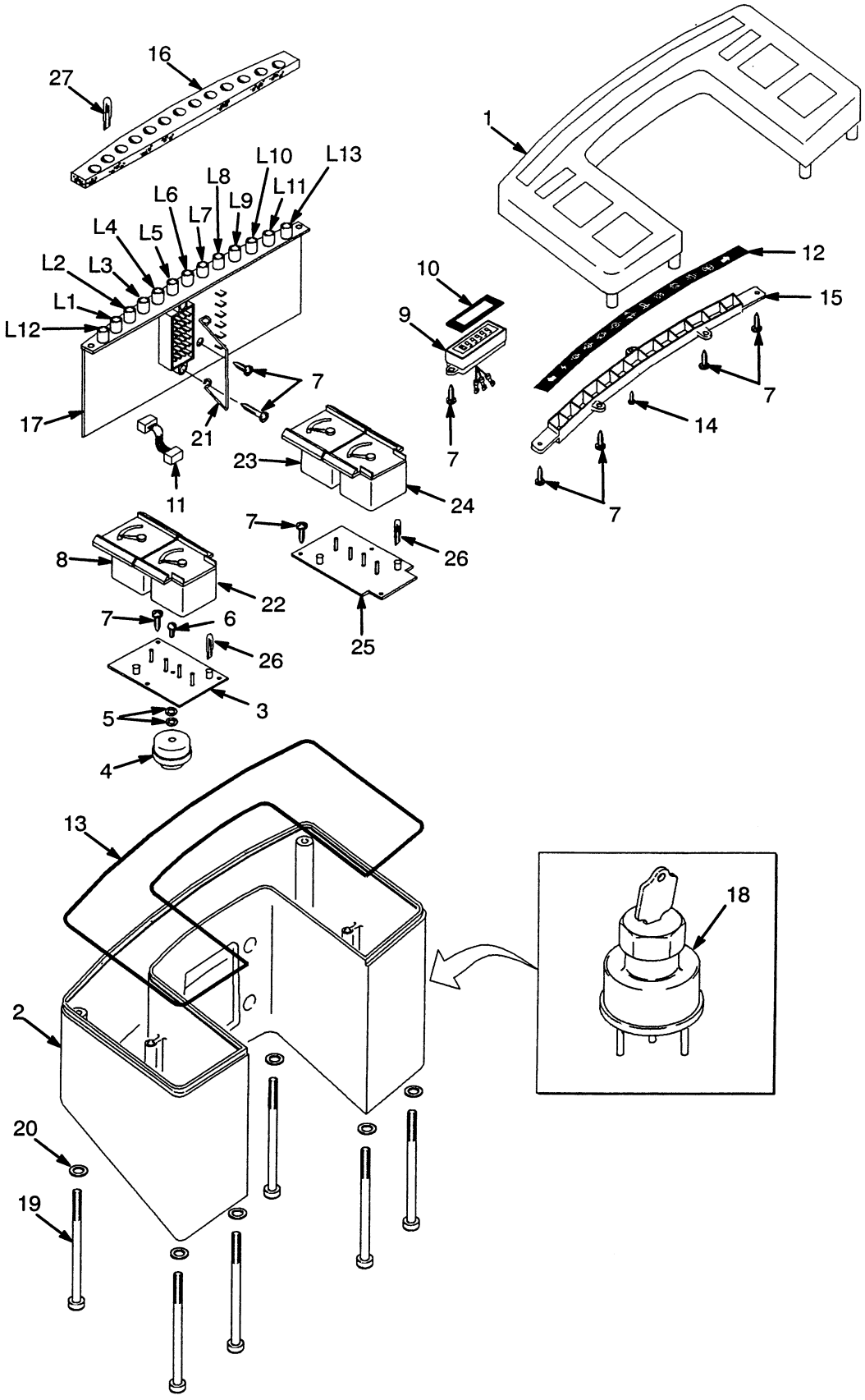
REF	PART NO.	NAME OF PART	QTY
1	1365876	Instrument Panel	1
2	1365877	Instrument Panel	1
3	1350282	Retainer	4
4	369242	Capscrew	4
5	136681	Capscrew	1
6	320157	Washer	1
7	292681	Lockwasher	1
8	239503	Nut	1
9	1338286	Information Case	1

REF	PART NO.	NAME OF PART	QTY
10	1339637	Bezel	1
11	1337196	Screw	4
12	320154	Washer	4
13	292678	Lockwasher	4
14	292667	Nut	4
15	376949	Cover	5
16	.....	Instrument Cluster	1
		☞ Figure 153	

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NOTES

INSTRUMENT CLUSTER (Figure 153)



INSTRUMENT CLUSTER

PART NO.	DESCRIPTION	INCLUDES REF NO.'S	REF N0. 26 QTY	REF NO. 27 QTY	REF NO. 27 & LOCATION
1335975	[c] Instrument Cluster-Gasoline	1-22, 26 & 27	2	7	L1-L6, L9
1335976	[c] Instrument Cluster-LPG	1-21, 26 &27	1	7	L1-L6, L10
1335977	[c] Instrument Cluster-Diesel	1-22, 26 & 27	2	8	L1-L8
1335978	[b] Instrument Cluster-Gasoline	1-27	4	10	L1-L6, L9, L11-L13
1335979	[b] Instrument Cluster-LPG	1-21, 23-27	3	10	L1-L6, L10-L13
1335980	[b] Instrument Cluster-Diesel	1-27	4	11	L1-L8, L11-L13
1343612	[c] Instrument Cluster-Gasoline	1-22, 26, & 27	2	8	L1-L5, L9, L11-L13
1343613	[c] Instrument Cluster-LPG	1-21, 26, & 27	1	8	L1-L5, L10, L11-L13
1343614	[c] Instrument Cluster-Diesel	1-22, 26, & 27	2	9	L1-L5, L7-L8, L11-L13

[b] Includes Optional Gauges [c] Includes Standard Gauges

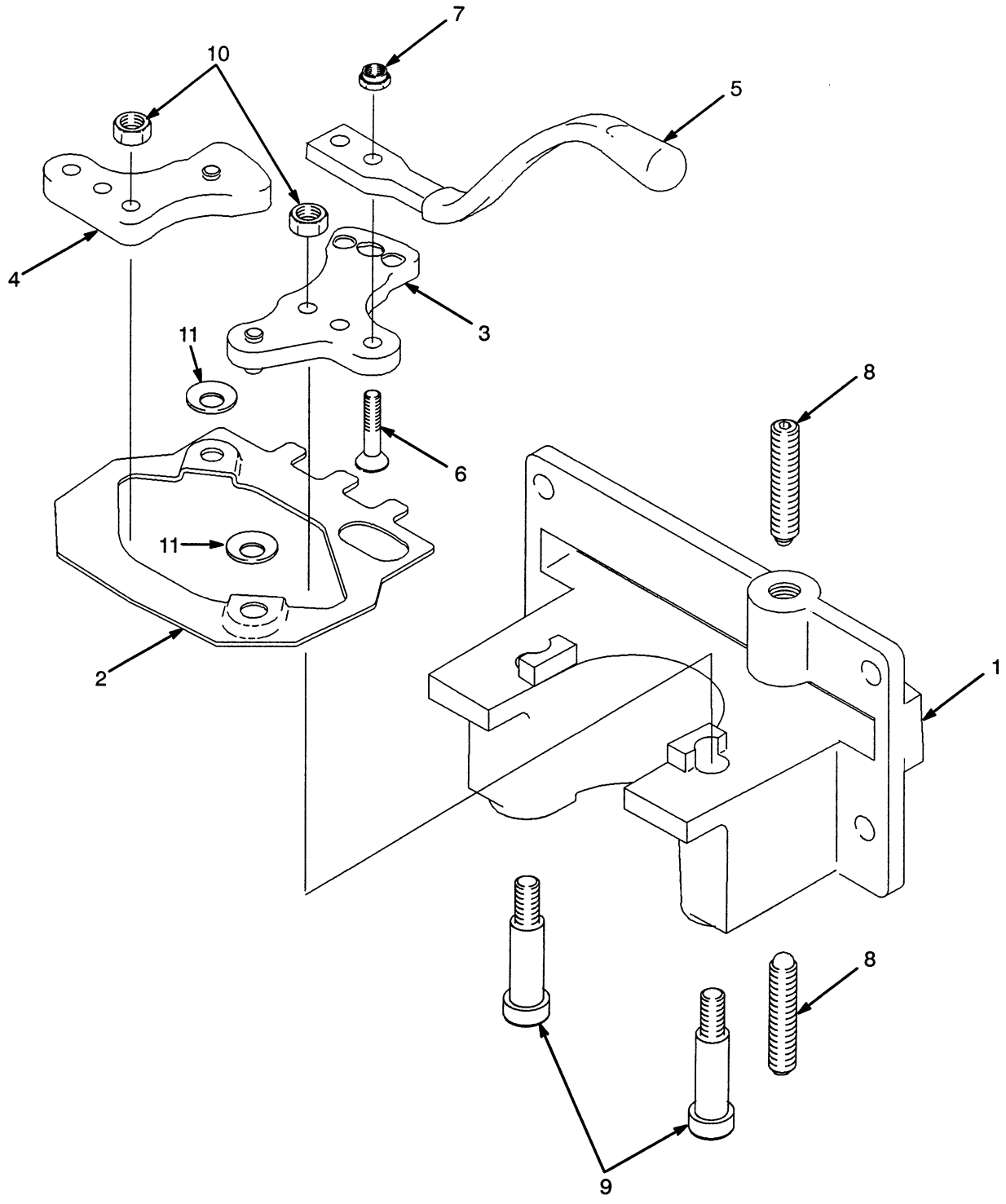
KEY:
A: Optional Gauges
B: Standard Gauges

REF		PART NO.	NAME OF PART	QTY A	QTY B
	[a]	....	Instrument Cluster	1	1
1		1354775	Cover-Top	1	1
2		1354776	Case	1	1
3		1354049	Circuit Board (LH)	1	1
4		1354804	Buzzer	1	1
5		1354780	Washer (Fibre)	1	1
6		189756	Screw	1	1
7		227131	Screw	17	14
8		1354778	Water Temperature Gauge ..	1	1
9		1354783	Hourmeter	1	1
10		1354782	Gasket	1	1
11		1354805	Jumper Harness	1	1
12		1354784	Warning Lamp Filter	1	1
13		1354785	Gasket	1	1
14		1354786	Screw	1	1
15		1354787	Warning Lamp Housing	1	1
16		1354788	Foam Gasket	1	1
17		1354806	Circuit Board	1	1
18		1337114	Ignition Switch	1	1
19		1453153	Screw Kit	1	1
20		320154	Washer	8	8
21		1358858	Clip	1	1
22		1354777	Fuel Gauge	1	1
23		1354792	Oil Gauge	1	1
24		1354793	Voltmeter Gauge	1	1
25		1354807	Circuit Board (RH)	1	1
26	[a]	1354796	Lamp	..	..
27	[a]	1357367	Lamp	..	..

[a] ☞ Table Above

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SHIFT LEVER (Figure 154)

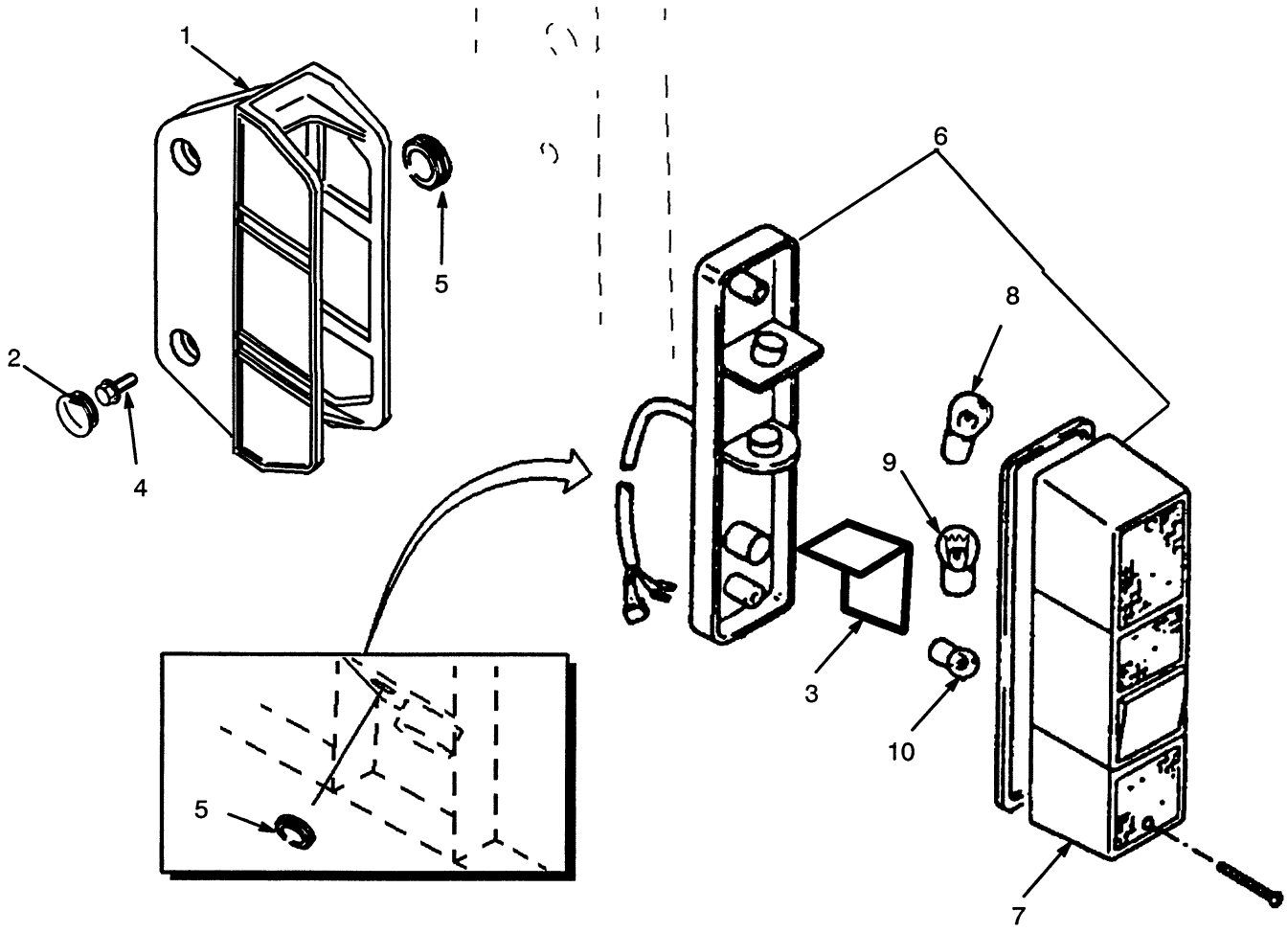


REF	PART NO.	NAME OF PART	QTY
	1347004	Shift Lever Assembly	1
1	1343577	Base	1
2	1343578	Link	1
3	1343579	Crank	1
4	1343598	Crank	1
5	1343593	Shift Lever	1
6	296205	Capscrew	2
7	302398	Nut	2
8	1338291	Spring Plunger	2
9	1343594	Bolt	2
10	136687	Nut	2
11	1354300	Spring Washer	4

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LIGHTS (Figure 155)



REF		PART NO.	NAME OF PART	QTY
1	a	1354105	Bracket	2
1	b	1450293	Bracket	2
1	c	878152	Bracket	2
2		1450356	Plug	2
3		1375173	Shield	2
4		316678	Screw	4
5		1367639	Bushing	3
6	a	1343887	Light Assembly	2
6	b	1376749	Light Assembly	2
7	a	1344798	Lens	1
7	b	1380757	Lens (Amber)	1

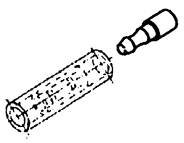
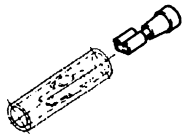
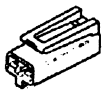
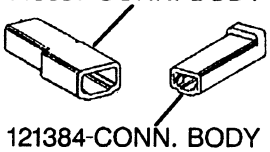
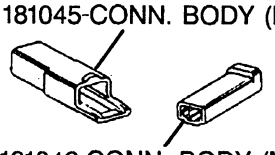
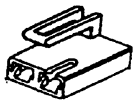
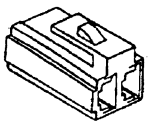
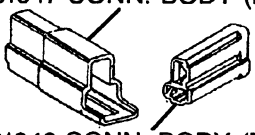
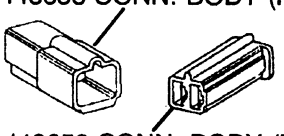
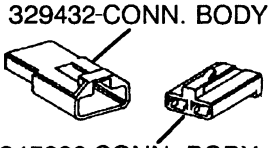
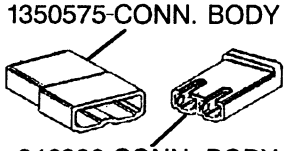
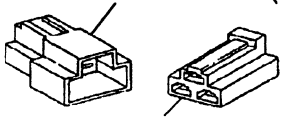
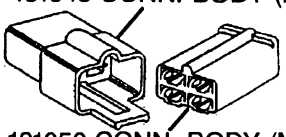
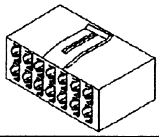
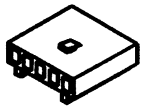
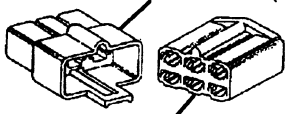
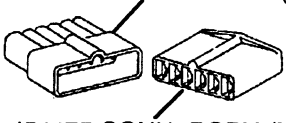
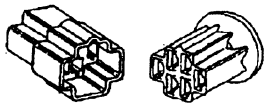
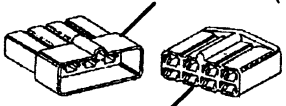
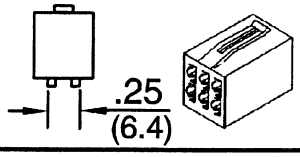
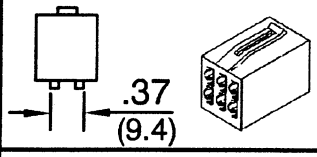
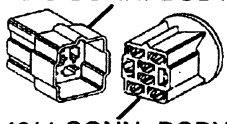
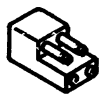
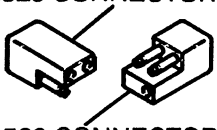
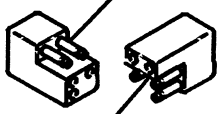
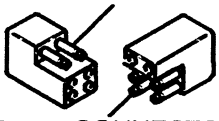
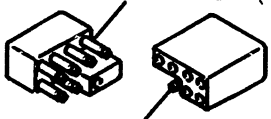
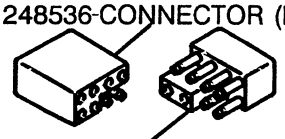
REF		PART NO.	NAME OF PART	QTY
7	b	1376439	Lens (Clear)	1
7	b	1376440	Lens (Red)	1
8	a	207495	Bulb	1
8	b	1302258	Bulb	2
9		177521	Bulb (12 Volt)	1
10	a	1344799	Bulb	1

a Last Used On S/N D177B-3080
b First Used On S/N D177B-3081
c With Steel Cab Kit 895973

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ELECTRICAL CONNECTORS (Figure 156)

LESS TERMINALS

1300231-TERMINAL(10-14GA) 381847-TERMINAL (14-16GA)  381846-FUSEHOLDER	 42958-CONNECTOR	 148660-CONNECTOR	256291-CONN. BODY 
148657-CONN. BODY (F)  121384-CONN. BODY (M)	181045-CONN. BODY (F)  181046-CONN. BODY (M)	345474-CONN. BODY 	126381-CONN. BODY 
181047-CONN. BODY (F)  181048-CONN. BODY (M)	148658-CONN. BODY (F)  148659-CONN. BODY (M)	329432-CONN. BODY (F)  245996-CONN. BODY (M)	1350575-CONN. BODY (F)  346330-CONN. BODY (M)
152728-CONN. BODY (F)  126319-CONN.BODY (M)	181049-CONN. BODY (F)  181050-CONN. BODY (M)	1328311-"Y"-PLUG 	1328309-PLUG  (DASH DISPLAY)
181051-CONN. BODY (F)  181052-CONN. BODY (M)	154476-CONN. BODY (F)  154475-CONN. BODY (M)	144011-CONNECTOR SET 	370728-CONN. BODY  (IGNITION SWITCH)
181053-CONN. BODY (F)  181054-CONN. BODY (M)	1308549-ELEC. FTG. PLUG  .25 (6.4)	1308544-ELEC. FTG. PLUG  .37 (9.4)	134813-CONN. BODY (F)  134814-CONN. BODY (M)
164431-CONNECTOR 	164433-CONNECTOR 	192529-CONNECTOR (F)  192528-CONNECTOR (M)	169321-CONNECTOR (F)  169320-CONNECTOR (M)
164436-CONNECTOR (F)  164435-CONNECTOR (M)	257252-CONNECTOR (M)  257253-CONNECTOR (M)	248536-CONNECTOR (F)  248535-CONNECTOR (M)	

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TRANSMISSION

CLUTCH FORWARD AND REVERSE (Figure 159)
LAST USED ON TRANSMISSION S/N T51,T52,T53,T78 ..... Page 290

CLUTCH-FORWARD AND REVERSE (Figure 160)
FIRST USED ON TRANSMISSION S/N T80M-1501,
T81M-1501,T83M-1501 ..... Page 292

CONTROL VALVE (Figure 163)
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DIFFERENTIAL (Figure 161)
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PUMP DRIVE (Figure 164)
LAST USED ON TRANSMISSION S/N T80M-1644 ..... Page 300

PUMP DRIVE (Figure 165)
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TRANSMISSION COOLING (Figure 166) ..... Page 303

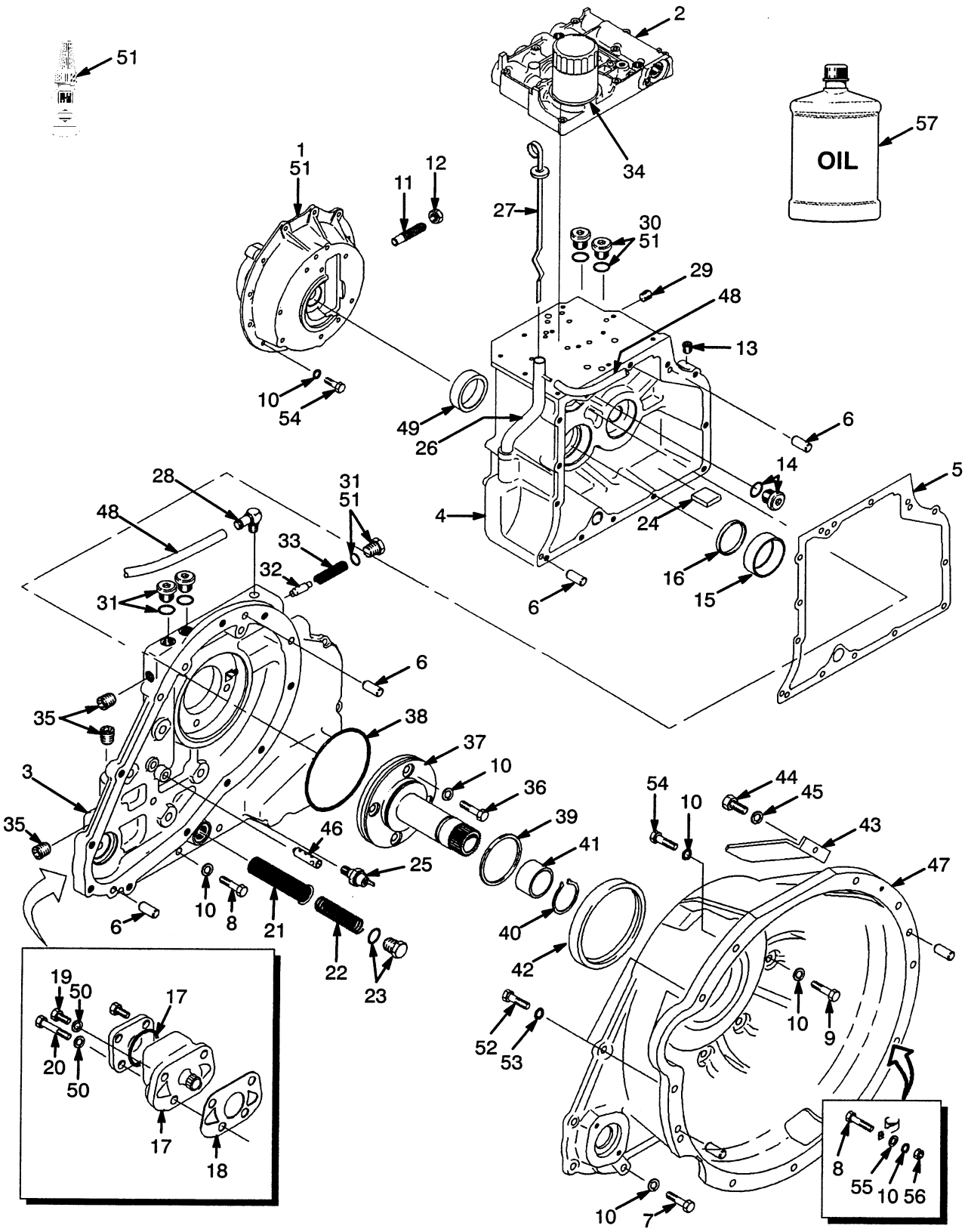
TRANSMISSION (Figure 157)
LAST USED ON TRANSMISSION S/N T51,T52,T53,T78 ..... Page 286

TRANSMISSION (Figure 158)
FIRST USED ON TRANSMISSION S/N T80M-1501,
T81M-1501,T83M-1501 ..... Page 288

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TRANSMISSION (Figure 157)

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78



TRANSMISSION

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78

KEY:
A: Gasoline And LPG 2.0L/2.2L . Including Diesel 2.4L, 2.5L
B: Diesel 3.0L And 3.1L
C: GM Gasoline And LPG 3.0L
D: Gasoline And LPG 2.0L And 2.2L (Transmission First Used D177B-41754) Including Diesel 2.6L

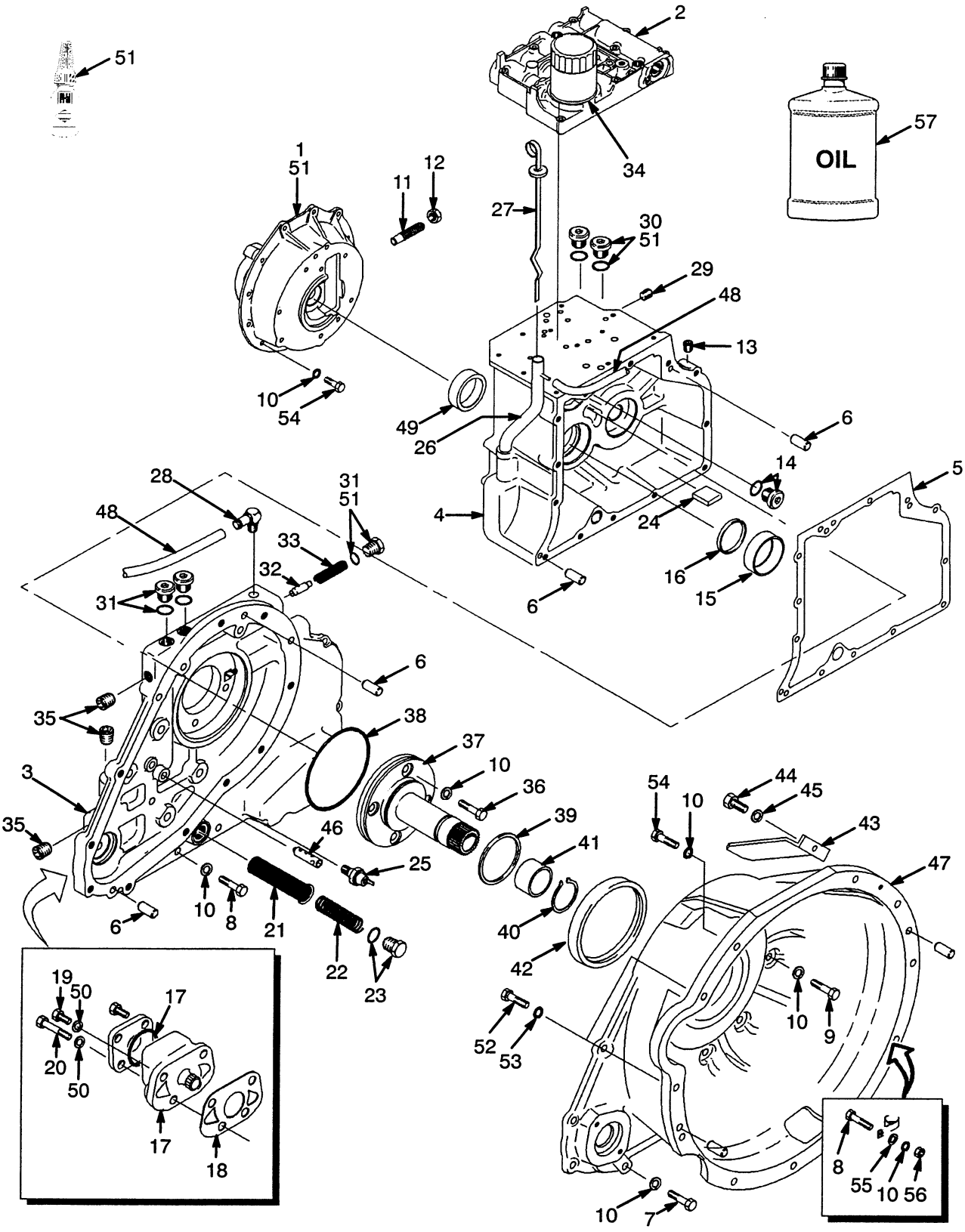
REF		PART NO.	NAME OF PART	QTY A	B	C	D
	e	1337069	Transmission (T51)	1	..	..	..
	f	1391543	Transmission (T51)	1	..	..	..
	e	1337070	Transmission (T53)	..	1	..	..
	f	1391545	Transmission (T53)	..	1	..	..
	a	1356309	Transmission (T52)	..	..	1	..
	b	1375193	Transmission (T52)	..	..	1	..
	g	1391544	Transmission (T52)	..	..	1	..
		1394930	Transmission (T78)	..	..	..	1
1		.....	Differential ☞ Figure 161	1	1	1	1
2		.....	Control Valve ☞ Figure 163	1	1	1	1
3		1367430	Cover	1	1	1	1
4		1334717	Housing	1	1	1	1
5	d	1334772	Gasket	1	1	1	1
6		302385	Pin	4	4	4	4
7		292516	Capscrew	16	16	16	16
8		292519	Capscrew	3	..	3	3
8	c	292519	Capscrew	4	4	..	..
9		292524	Capscrew	4	4	4	4
10		292682	Lockwasher	48	48	48	48
11		334571	Screw	1	1	1	1
12		15032	Nut	1	1	1	1
13		15483	Fitting	1	1	1	1
14		222443	Fitting	1	1	1	1
14		16483	O-Ring	1	1	1	1
15	d	137282	Bearing Cup	1	1	1	1
16	d	286788	Seal	1	1	1	1
17	d	1335921	Charge Pump	1	1	1	1
17		1355348	Seal	1	1	1	1
18	d	1334771	Pump Gasket	1	1	1	1
19		176640	Capscrew	2	2	2	2
20		136703	Capscrew	2	2	2	2
21		334450	Screen	1	1	1	1
22		334452	Spring	1	1	1	1
23		14604	Plug	1	1	1	1
23	d	16487	O-Ring	1	1	1	1
24		334560	Magnet	1	1	1	1
25	d	1322627	Temperature Switch	1	1	1	1
26		1338259	Tube	1	1	1	1
27		1343533	Dipstick	1	1	1	1
28		1316809	Fitting	1	1	1	1
29		15347	Fitting	1	1	1	1
30		134436	Fitting	2	2	2	2
30	d	16482	O-Ring	1	1	1	1
31		235691	Fitting	3	3	3	3
31	d	16484	O-Ring	1	1	1	1
32		287472	Spool	1	1	1	1
33		1334786	Spring	1	1	1	1
34	d	1328692	Oil Filter	1	1	1	1
35		15314	Fitting	3	3	3	3
36		136985	Capscrew	4	4	4	4
37		1334785	Stator	..	1	1	..
37	g	1394923	Stator	1	..	..	1
38	d	1337051	O-Ring	1	1	1	1
39	d	1339332	Seal Ring	1	1	1	1
40		12891	Snap Ring	1	1	1	1
41		1339334	Spacer	1	1	1	1
42	d	1337052	Oil Seal	1	1	1	1
43	a	1335973	Cover	2	2	2	2
43	b	1375148	Cover	2	2	2	2
44		287817	Capscrew	2	2	2	2
45		292680	Lockwasher	..	2	2	2
46		1343557	Tube	1	1	1	1
47	a	1335972	Converter Housing	1	1	1	..
47	b	1375183	Converter Housing	1	1	1	1
48		193772	Hose	1	1	1	1
48		1389608	Hose (Optional)	1	1	1	1
49	d	230419	Bearing Cup	1	1	1	1
50		292681	Lockwasher	4	4	4	4
51	d	313022	Adhesive	AR	AR	AR	AR
52		292528	Capscrew	2	2	2	2
53		292683	Lockwasher	2	2	2	2
54		287860	Capscrew	21	..	21	21
54	c	287860	Capscrew	20	20	..	..
55	c	320159	Washer	1	1	..	..
56	c	136692	Nut	1	1	..	..
57		336830	Transmission Oil (1 Qt)	AR	AR	AR	AR
57		336831	Transmission Oil (2 Gal)	AR	AR	AR	AR
57		336832	Transmission Oil (5 Gal)	AR	AR	AR	AR
57		336833	Transmission Oil (55 Gal)	AR	AR	AR	AR

a Last Used On S/N D177B-16153
b First Used On S/N D177B-16154
c Diesel Only
d Included in Transmission Overhaul Kit 996297
e Transmission Last Used On S/N D177B-41853
f Transmission First Used On S/N D177B-41854
g Used S/N D177B-16154 Thru D177B-43357

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TRANSMISSION (Figure 158)

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501



TRANSMISSION

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501

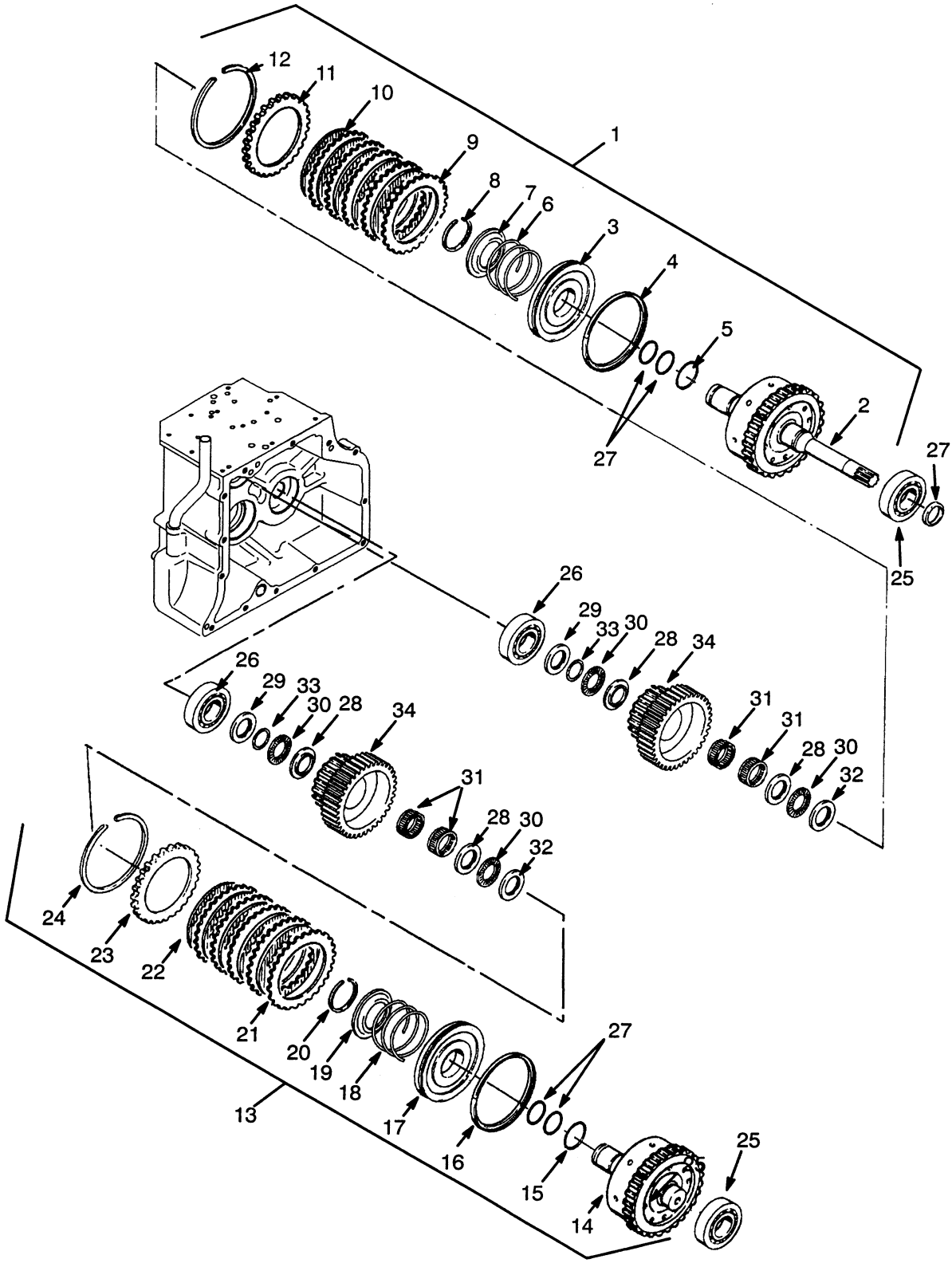
KEY:
A: Gasoline And LPG 2.0L, 2.2L, 3.0L (Exedy Torque Converter)
B: Diesel 2.4L (Exedy Torque Converter)
C: Diesel 3.0L (Borg And Beck Torque Converter)

REF		PART NO.	NAME OF PART	QTY A	QTY B	QTY C
		1394942	Transmission (T80)	1	1	..
		1394943	Transmission (T81)	..	..	1
1		.....	Differential	1	1	1
			☞ Figure 161			
2		.....	Control Valve	1	1	1
			☞ Figure 163			
3		1367430	Cover	1	1	1
4		1334717	Housing	1	1	1
5		1334772	Gasket	1	1	1
6		302385	Pin	4	4	4
7		292516	Capscrew	16	16	16
8		292519	Capscrew	3	3	3
8	C	292519	Capscrew	4	4	4
9		292524	Capscrew	4	4	4
10		292682	Lockwasher	27	27	27
11		334571	Screw	1	1	1
12		15032	Nut	1	1	1
13		15483	Fitting	1	1	1
14		222443	Fitting	1	1	1
14		16483	O-Ring	1	1	1
15		137282	Bearing Cup	1	1	1
16		286788	Seal	1	1	1
17		1335921	Charge Pump	1	1	1
17		1355348	Seal	1	1	1
18		1334771	Pump Gasket	1	1	1
19		176640	Capscrew	2	2	2
20		136703	Capscrew	2	2	2
21		334450	Screen	1	1	1
22		334452	Spring	1	1	1
23		14604	Plug	1	1	1
23		16487	O-Ring	1	1	1
24		334560	Magnet	1	1	1
25		1322627	Temperature Switch	1	1	1
26		1338259	Tube	1	1	1
27		1343533	Dipstick	1	1	1
28		1316809	Fitting	1	1	1
29		15347	Fitting	1	1	1
30		134436	Fitting	2	2	2
30		16482	O-Ring	1	1	1
31		235691	Fitting	3	3	3
31		16484	O-Ring	1	1	1
32		287472	Spool	1	1	1
33		1334786	Spring	1	1	1
34		1328692	Oil Filter	1	1	1
35		15314	Fitting	3	3	3
36		136985	Capscrew	4	4	4
37		1394923	Stator	1	1	..
37		1334785	Stator	..	..	1
38		1337051	O-Ring	1	1	1
39		1339332	Seal Ring	1	1	1
40		12891	Snap Ring	1	1	1
41		1339334	Spacer	1	1	1
42		1337052	Oil Seal	1	1	1
43		1375148	Cover	2	2	2
44		287817	Capscrew	2	2	2
45		292680	Lockwasher	..	2	2
46		1343557	Tube	1	1	1
47		1375183	Converter Housing	1	1	1
48		193772	Hose	1	1	1
48		1389608	Hose (Optional)	1	1	1
49		230419	Bearing Cup	1	1	1
50		292681	Lockwasher	4	4	4
51		264159	Adhesive	AR	AR	AR
52		292528	Capscrew	2	2	2
53		292683	Lockwasher	2	2	2
54		287860	Capscrew	21	21	21
55		320159	Washer	1	1	1
56		136692	Nut	1	1	1
57		336830	Transmission Oil (1 Qt)	AR	AR	AR
57		336831	Transmission Oil (2 Gal)	AR	AR	AR
57		336832	Transmission Oil (5 Gal)	AR	AR	AR
57		336833	Transmission Oil (55 Gal)	AR	AR	AR

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CLUTCH FORWARD AND REVERSE (Figure 159)

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78



FORWARD AND REVERSE CLUTCH

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78

REF		PART NO.	NAME OF PART	QTY
1		1334579	Clutch (Forward)	1
1	f	1394932	Clutch (Forward)	1
2		1334760	Input Shaft Assembly	1
2	f	1394931	Input Shaft Assembly	1
3		334439	Piston	1
4	ae	334402	Seal	1
5	ae	346795	O-Ring	1
6		334595	Spring	1
7		334449	Spring Guide	1
8	e	334480	Snap Ring	1
9	e	334417	Separator Plate	5
10	e	346796	Friction Plate	5
11	e	334442	Pressure Plate	1
12	e	334475	Snap Ring	1
13		361895	Reverse Clutch	1
14		361893	Counter Shaft	1
15	ae	346795	O-Ring	1
16	ae	334402	Seal	1
17		334439	Piston	1
18		334595	Spring	1
19		334449	Spring Guide	1
20	e	334480	Snap Ring	1
21	e	334417	Separator Plate	5
22	e	346796	Friction Plate	5
23	e	334442	Pressure Plate	1
24	e	334475	Snap Ring	1
25	e	43207	Bearing	2
26	e	43307	Bearing	2
27	e	334429	Ring (Seal)	5
28	e	347767	Washer	4
29	e	347768	Washer	2
30	e	78826	Bearing	4
31	e	334454	Bearing	4
32	e	347770	Washer	2
33	e	347773	Snap Ring	2
34	b	1335888	Gear (Clutch Output)	2
34	cg	360318	Gear (Clutch Output)	2
34	d	1335890	Gear (Clutch Output)	2

a Included In Gasket Kit 352075

b Used With Gasoline And LPG 2.0L Up To S/N D177B-41854 And Diesel 2.4L

c Used With Gasoline And LPG 2.2L And 3.0L

d Used With Diesel 2.8L And 3.1L

e Included in Transmission Overhaul Kit 996297

f First Used With Gasoline And LPG 2.0L, 2.2L And 3.0L Engines On S/N D177B-41854 And D177B-43357

g First Used With 2.0L Engine D177B-43357

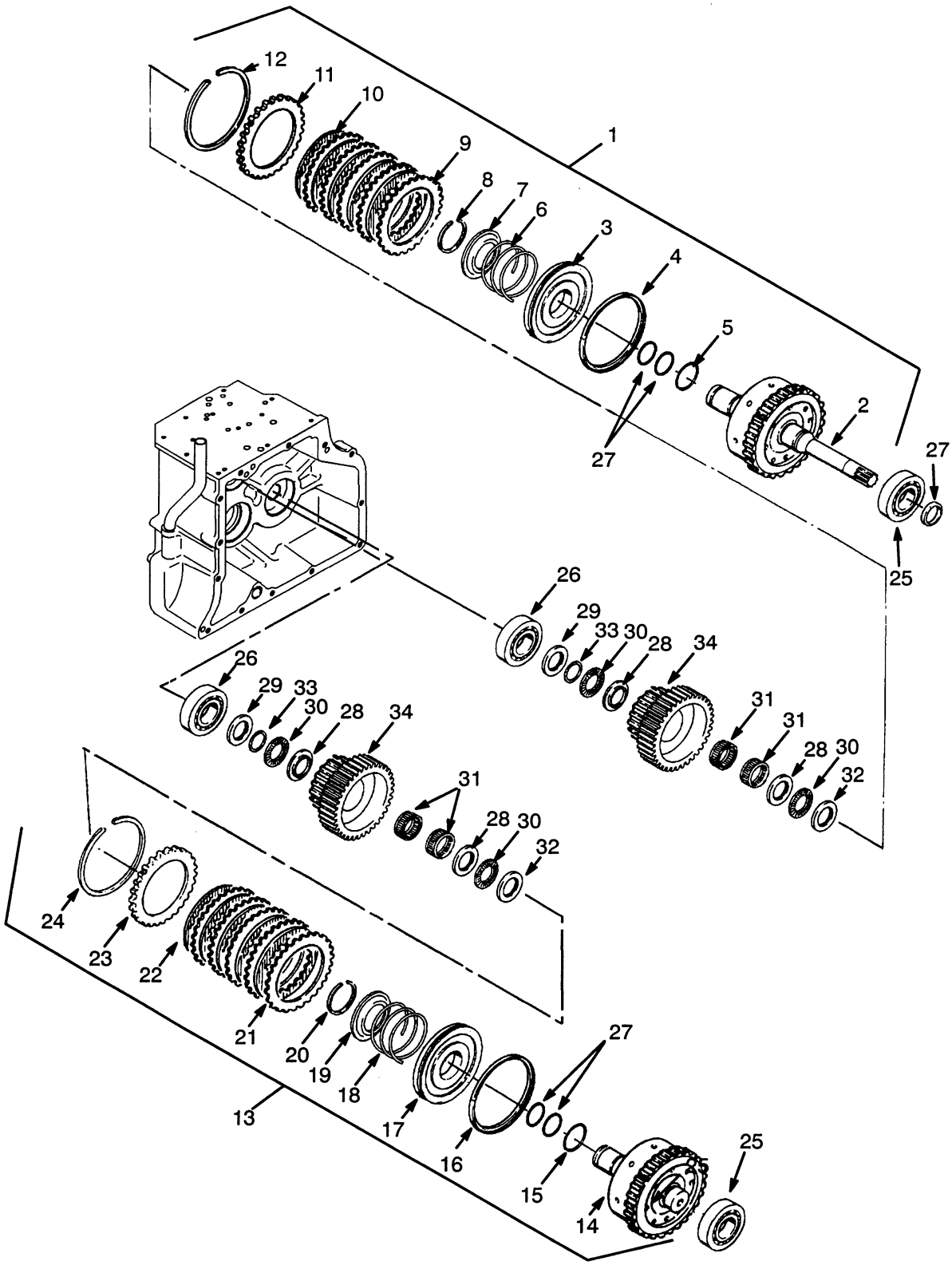
Note: The Above Parts Are Included With Transmissions 1337069, 1337070, 1356309, And 1394930

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See Service Manual for service procedures

CLUTCH-FORWARD AND REVERSE (Figure 160)

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501



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CLUTCH-FORWARD AND REVERSE

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501

KEY:
A: Gasoline And LPG 2.0L, 2.2L, 3.0L (Exedy Torque Converter)
B: Diesel 2.4L (Exedy Torque Converter)
C: Diesel 3.0L (Borg And Beck Torque Converter)

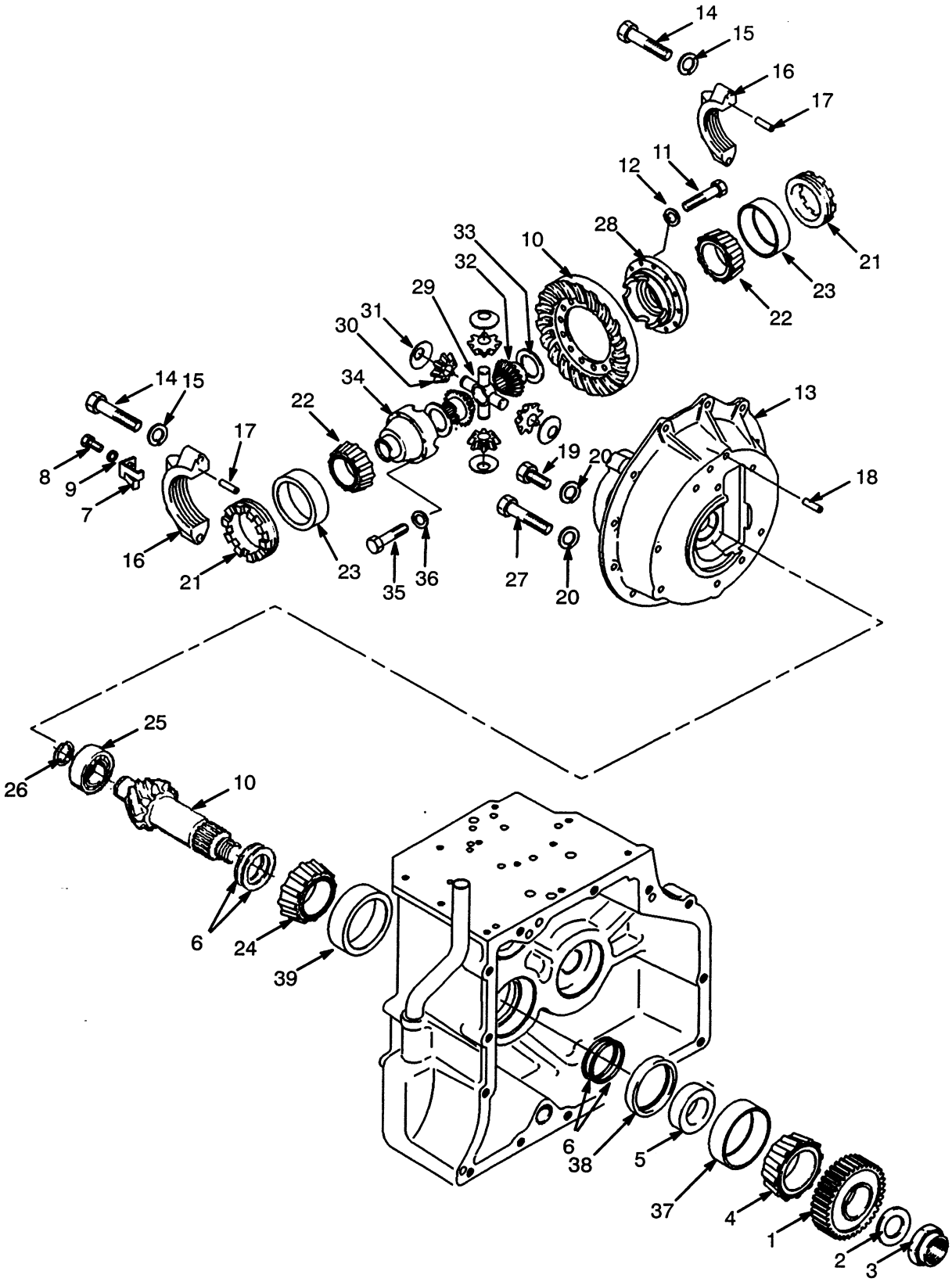
REF	PART NO.	NAME OF PART	QTY A	B	C
1	1394902	Clutch (Forward)	1	..	..
1	1394901	Clutch (Forward)	..	1	1
2	1394908	Input Shaft Assembly	1	..	..
2	1394907	Input Shaft Assembly	..	1	1
3	1394885	Piston	1	1	1
4	334402	Seal	1	1	1
5	1394879	O-Ring	1	1	1
6	1394882	Spring	1	1	1
7	1394893	Spring Guide	1	1	1
8	1394912	Snap Ring	1	1	1
9	334417	Separator Plate	5	5	5
10	346796	Friction Plate	5	5	5
11	1394881	Pressure Plate	1	1	1
12	334475	Snap Ring	1	1	1
13	1394903	Reverse Clutch	1	1	1
14	1394909	Counter Shaft	1	1	1
15	1394879	O-Ring	1	1	1
16	334402	Seal	1	1	1
17	1394885	Piston	1	1	1
18	1394882	Spring	1	1	1
19	1394893	Spring Guide	1	1	1
20	1394912	Snap Ring	1	1	1
21	334417	Separator Plate	5	5	5
22	346796	Friction Plate	5	5	5
23	1394881	Pressure Plate	1	1	1
24	334475	Snap Ring	1	1	1
25	43207	Bearing	2	2	2
26	43307	Bearing	2	2	2
27	334429	Ring (Seal)	5	5	5
28	1394888	Washer	4	4	4
29	1394894	Washer	2	2	2
30	1394887	Bearing	4	4	4
31	1394886	Bearing	4	4	4
32	1394895	Spacer	2	2	2
33	347773	Snap Ring	2	2	2
34	1394884	Gear (Clutch Output)	2	2	..
34	1394899	Gear (Clutch Output)	..	..	2

Note: The Above Parts Are Included With Transmissions 1394942 And 1394943

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DIFFERENTIAL (Figure 161)

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78



DIFFERENTIAL

LAST USED ON TRANSMISSION S/N T51,T52,T53,T78

REF		PART NO.	NAME OF PART	QTY
1	a	1335894	Gear (Output)	1
1	be	334406	Gear (Output)	1
1	c	1335892	Gear (Output)	1
1	f	1386806	Gear (Output)	1
2	d	334587	Washer	1
3	d	304406	Nut	1
4	d	137283	Bearing Cone	1
5		334453	Spacer	1
6	d	346842	Shim (0.356 mm)	2
6	d	346843	Shim (0.381 mm)	2
6	d	346844	Shim (0.406 mm)	4
6	d	346845	Shim (0.508 mm)	4
6	d	346846	Shim (0.559 mm)	3
6	d	346847	Shim (0.635 mm)	3
7		334447	Plate	2
8		287851	Capscrew	2
9		292681	Lockwasher	2
10		1343219	Gear Set	1
11		97577	Bolt	12
12		221771	Washer	12
13		1334796	Differential Housing	1
14		218599	Capscrew	4
15		221773	Flat Washer	4
16		367475	Bearing Cap	2
17		234038	Dowel Pin	4
18		309831	Pin	1
19		136985	Capscrew	8
20		292682	Lockwasher	10
21		347746	Nut	2
22	d	78584	Bearing Cone	2
23	d	45733	Bearing Cup	2
24	d	342734	Bearing Cone	1
25	d	135158	Bearing	1
26	d	320264	Ring	1
27		292519	Capscrew	2
28		380478	Differential	1
28		.....	Housing	1
29		380489	Spider	1
30		380486	Pinion	4
31	d	380488	Washer	4
32		380483	Gear (Side)	2
33	d	380485	Washer	2
34		.....	Housing	1
35		221550	Capscrew	8
36		334580	Washer	8
37		137282	Bearing Cup	1
38		286788	Oil Seal	1
39		230419	Bearing Cup	1

a Used With Gasoline And LPG 2.0L Up To S/N D177B-41854 And Diesel 2.4L

b Used With Gasoline And LPG 2.2L And 3.0L

c Used With Diesel 2.8L And 3.1L

d Included in Transmission Overhaul Kit 996297

e Used With 2.0L Engine On S/N D177B-41854 Thru Transmission S/N T51,T52,T53,T78

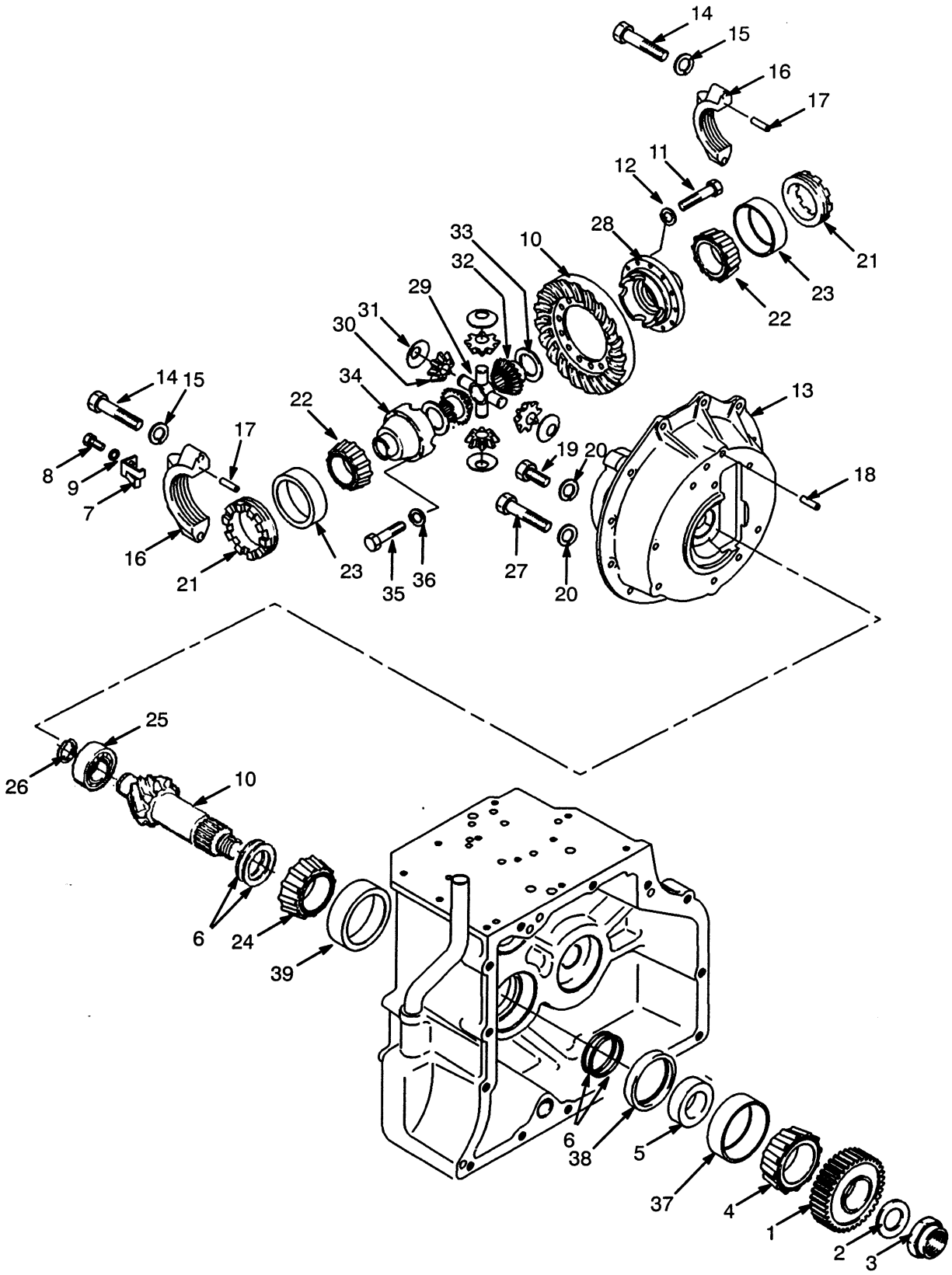
f First Used On Transmission S/N T80M-1501, T81M-1501,T83M-1501

Note: The Above Parts Are Included With Transmission 1337069, 1337070, 1356309, And 1394930

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DIFFERENTIAL (Figure 162)

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501



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DIFFERENTIAL

FIRST USED ON TRANSMISSION S/N T80M-1501, T81M-1501,T83M-1501

KEY:
A: Gasoline And LPG 2.0L, 2.2L, 3.0L (Exedy Torque Converter)
B: Diesel 2.4L (Exedy Torque Converter)
C: Diesel 3.0L (Borg And Beck Torque Converter)

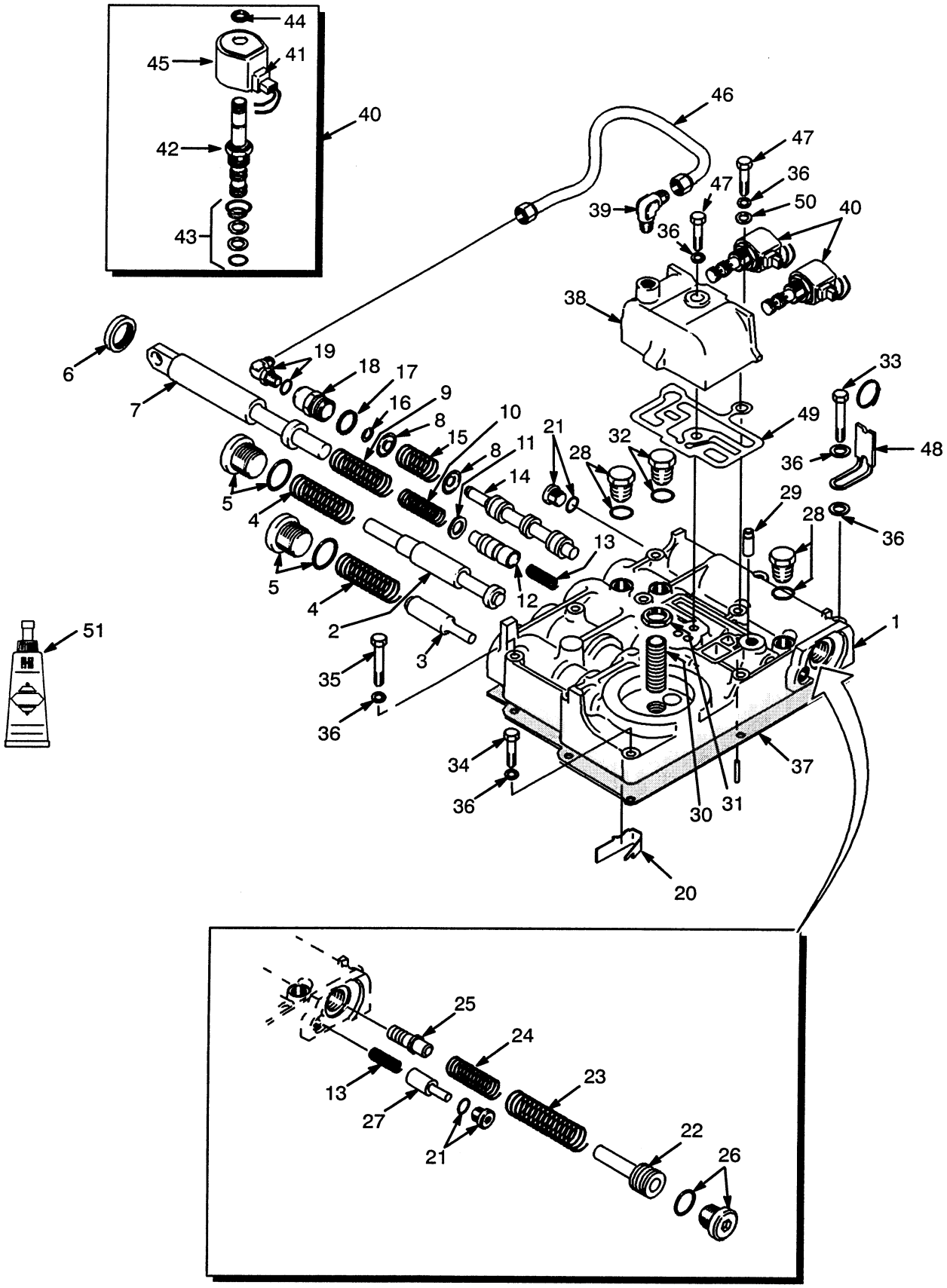
REF	PART NO.	NAME OF PART	QTY A	B	C
1	1386806	Gear (Output)	1	1	..
1	1386807	Gear (Output)	..	..	1
2	334587	Washer	1	1	1
3	304406	Nut	1	1	1
4	137283	Bearing Cone	1	1	1
5	334453	Spacer	1	1	1
6	346842	Shim (0.356 mm)	2	2	2
6	346843	Shim (0.381 mm)	2	2	2
6	346844	Shim (0.406 mm)	4	4	4
6	346845	Shim (0.508 mm)	4	4	4
6	346846	Shim (0.559 mm)	3	3	3
6	346847	Shim (0.635 mm)	3	3	3
7	334447	Plate	2	2	2
8	287851	Capscrew	2	2	2
9	292681	Lockwasher	2	2	2
10	1343219	Gear Set	1	1	1
11	97577	Bolt	12	12	12
12	221771	Washer	12	12	12
13	1334796	Differential Housing	1	1	1
14	218599	Capscrew	4	4	4
15	221773	Flat Washer	4	4	4
16	367475	Bearing Cap	2	2	2
17	234038	Dowel Pin	4	4	4
18	309831	Pin	1	1	1
19	136985	Capscrew	8	8	8
20	292682	Lockwasher	10	10	10
21	347746	Nut	2	2	2
22	78584	Bearing Cone	2	2	2
23	45733	Bearing Cup	2	2	2
24	342734	Bearing Cone	1	1	1
25	135158	Bearing	1	1	1
26	320264	Ring	1	1	1
27	292519	Capscrew	2	2	2
28	1383450	Differential	1	1	1
28	.....	Housing	1	1	1
29	1383461	Spider	1	1	1
30	1383458	Pinion	4	4	4
31	1343460	Washer	4	4	4
32	1383455	Gear (Side)	2	2	2
33	1383457	Washer	2	2	2
34	.....	Housing	1	1	1
35	293657	Capscrew	8	8	8
36	1383466	Washer	8	8	8
37	137282	Bearing Cup	1	1	1
38	286788	Oil Seal	1	1	1
39	230419	Bearing Cup	1	1	1

Note: The Above Parts Are Included With Transmissions 1394942 And 1394943

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CONTROL VALVE (Figure 163)

TRANSMISSION



CONTROL VALVE
TRANSMISSION

KEY:
A: Last Used on Transmission S/N T051-M21379, T51B-13932,T52B-4008, T53B-3806
B: First Used on Transmission S/N T051-M21380, T51B-13933,T52B-4009, T53B-3807

REF		PART NO.	NAME OF PART	QTY A	QTY B
		1308057	Control Valve	1	..
		1391377	Control Valve	..	1
1		.....	Body	1	1
2		359223	Spool	1	1
3		334524	Spool	1	1
4	b	334525	Spring	2	2
5		235691	Fitting	2	2
5	ab	16484	O-Ring	1	1
6	ab	334500	Oil Seal	1	1
7		1337817	Inching Spool	1	1
8	b	346648	Spring Cap	2	2
9	b	334531	Spring	1	1
10	b	1347300	Spring	1	1
11		296418	Washer	1	1
12		334532	Spool	1	1
13	b	334543	Spring	2	2
14		369922	Spool (Fwd/Rev)	1	1
15	b	346645	Center Spring	1	1
16		346650	Snap Ring	1	1
17	ab	367945	Gasket	1	1
18		375986	Cap	1	1
19		16556	Fitting	1	1
19	ab	16481	O-Ring	1	1
20		350484	Inching Stop	1	1
21		222443	Fitting	2	2
21	ab	16483	O-Ring	1	1
22		334582	Spool	1	1
23	b	361877	Spring	1	1
24	b	361876	Spring	1	1
25		359221	Spool	1	1
26		200659	Fitting	1	1
26	ab	16982	O-Ring	1	1
27		334542	Spool	1	1
28		14592	Fitting	2	2
28	ab	16482	O-Ring	1	1
29		369921	Pin	1	..
30		181766	Nipple	1	1
31		15032	Nut	1	1
32		134436	Fitting	1	1
32	ab	16482	O-Ring	1	1
33		136704	Capscrew	3	3
34		292508	Capscrew	1	1
35		292509	Capscrew	3	3
36		320157	Washer	12	12
37		1350276	Gasket	1	1
38		1350274	Manifold Valve	1	..
38		1391375	Manifold Valve	..	1
39		14500	Fitting	1	1
40	c	1350275	Solenoid Valve	2	2
40	d	1390610	Solenoid Valve	2	2
41		1452595	Coil	1	1
42		1452596	Cartridge	1	1
43		1393160	Seal Kit	1	1
44		.....	Nut	1	1
45		1365276	Housing	1	1
46		1302973	Tube	1	1
47		346656	Capscrew	4	4
48		1385873	Strap	1	1
49		1388573	Manifold Gasket	1	1
50		15932	Lockwasher	1	1
51		273338	Sealant	AR	AR

a Included In Seal Kit 373833

b Included in Transmission Overhaul Kit 996297

c Last Used On Transmission S/N T51M-21379, T51B-14127, T52B-4167 And T53B-3851

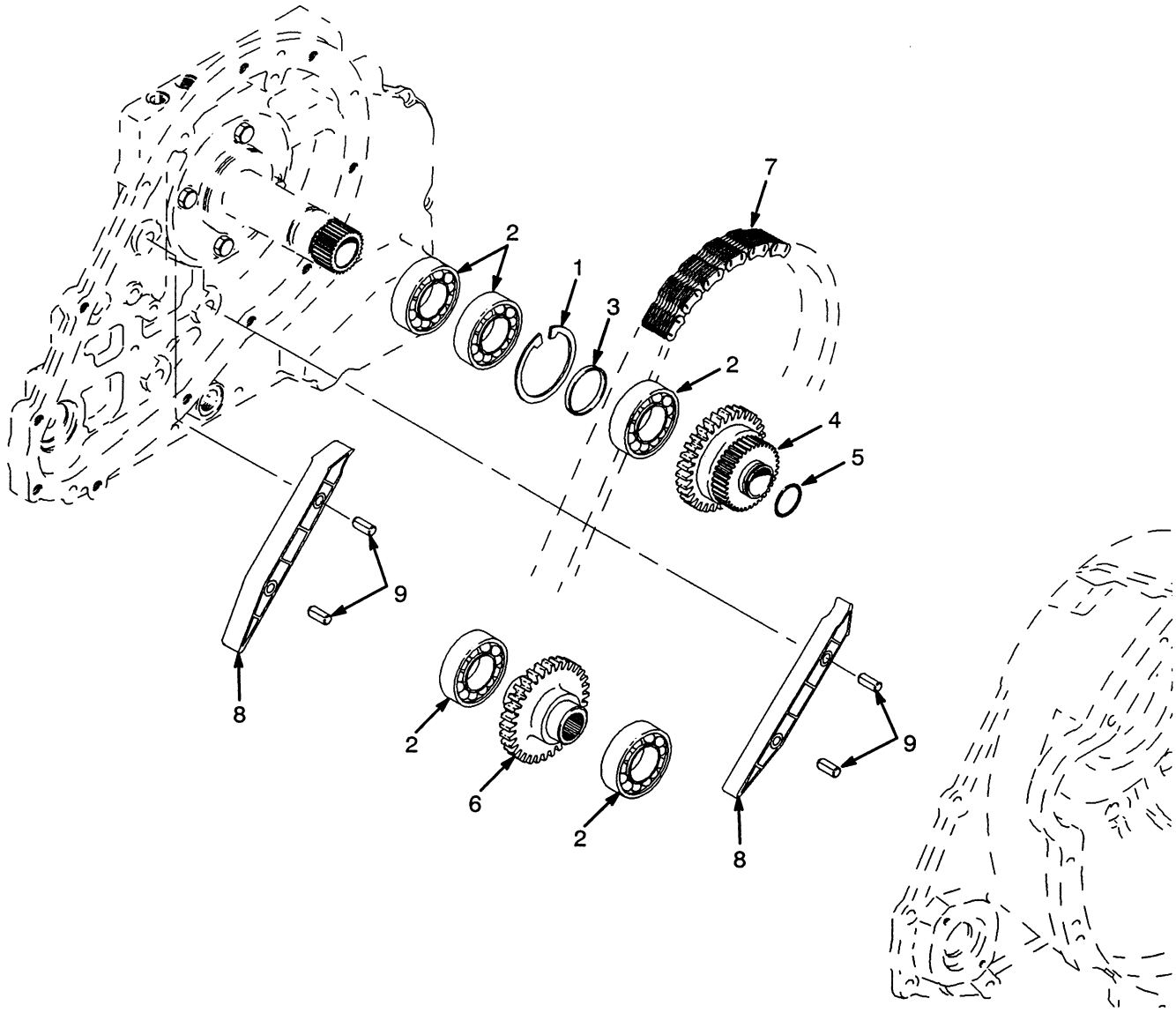
d First Used On Transmission S/N T51M-21380, T51B-14128, T52B-4168 And T53B-3852

Note: The Above Parts Are Included With Transmissions 1337069, 1337070, 1356309, And 1394930

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PUMP DRIVE (Figure 164)

LAST USED ON TRANSMISSION S/N T80M-1644

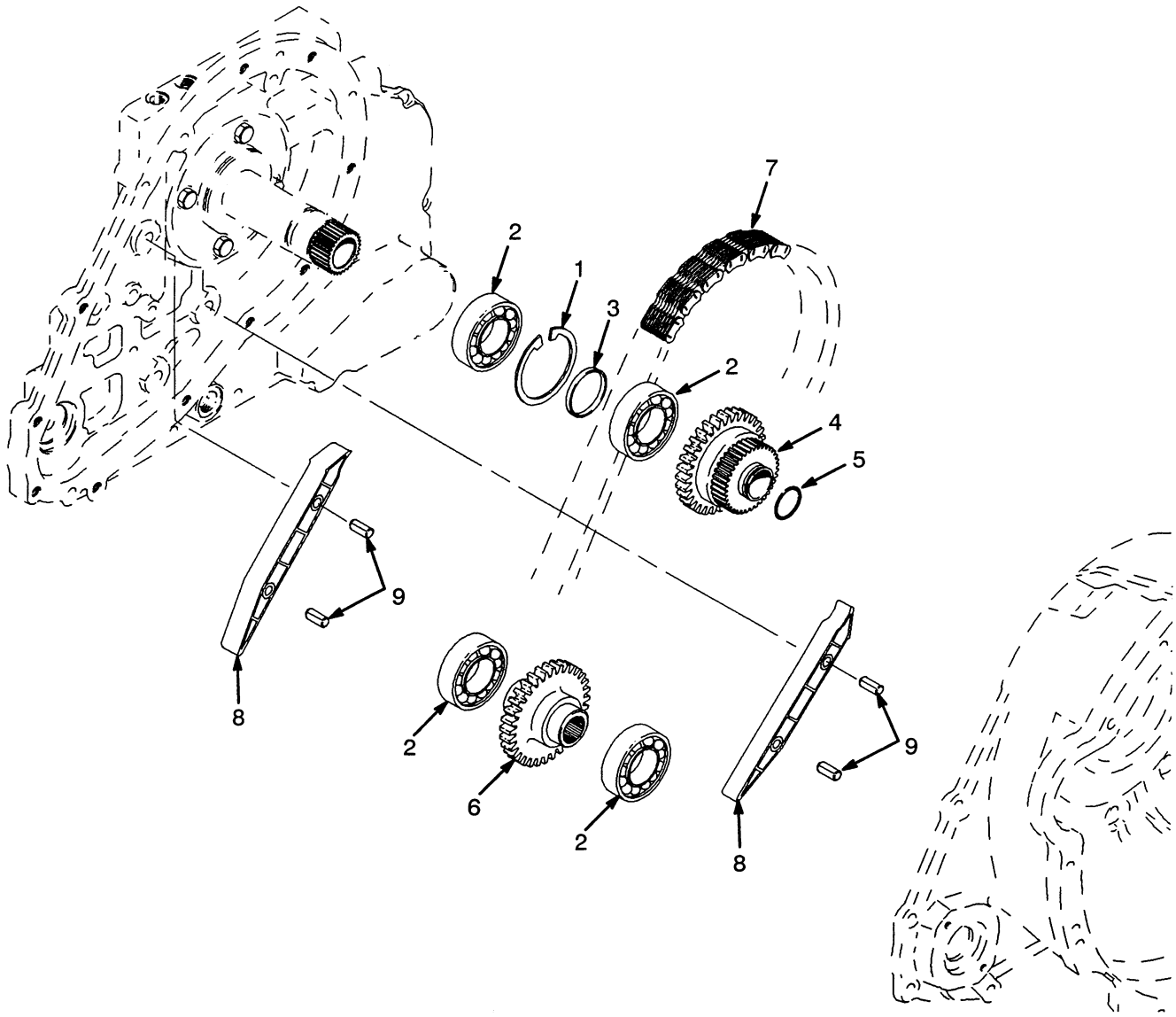


REF	PART NO.	NAME OF PART	QTY
1	12894	Snap Ring	1
2	44308	Bearing Ball	5
3	1339333	Spacer	1
4	1343479	SInput Sprocket	1
5	1338296	O-Ring	1
6	1343480	Pump Sprocket	1
7	1343478	Chain	1
8	1347158	Snubber	2
9	80952	Pin	4

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PUMP DRIVE (Figure 165)

FIRST USED ON S/N T80M-1645



REF	PART NO.	NAME OF PART	QTY
1	12894	Snap Ring	1
2	44308	Bearing Ball	4
3	1394904	Spacer	1
4	1343479	SInput Sprocket	1
5	1338296	O-Ring	1
6	1343480	Pump Sprocket	1

REF	PART NO.	NAME OF PART	QTY
7	1343478	Chain	1
8	1347158	Snubber	2
9	80952	Pin	4

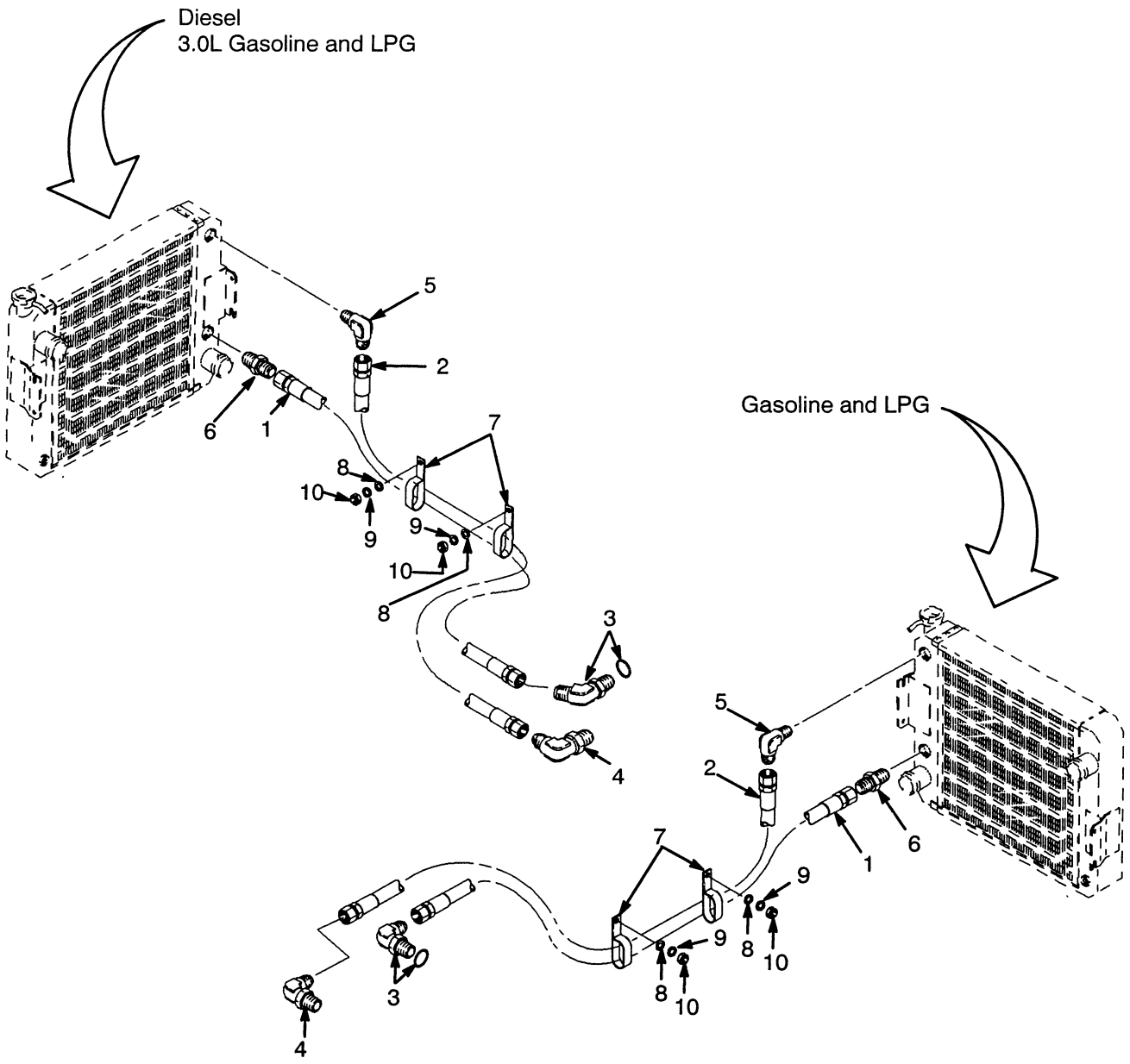
Note: The Above Parts Are Included With Transmissions 1394942, 1394942

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NOTES

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TRANSMISSION COOLING (Figure 166)



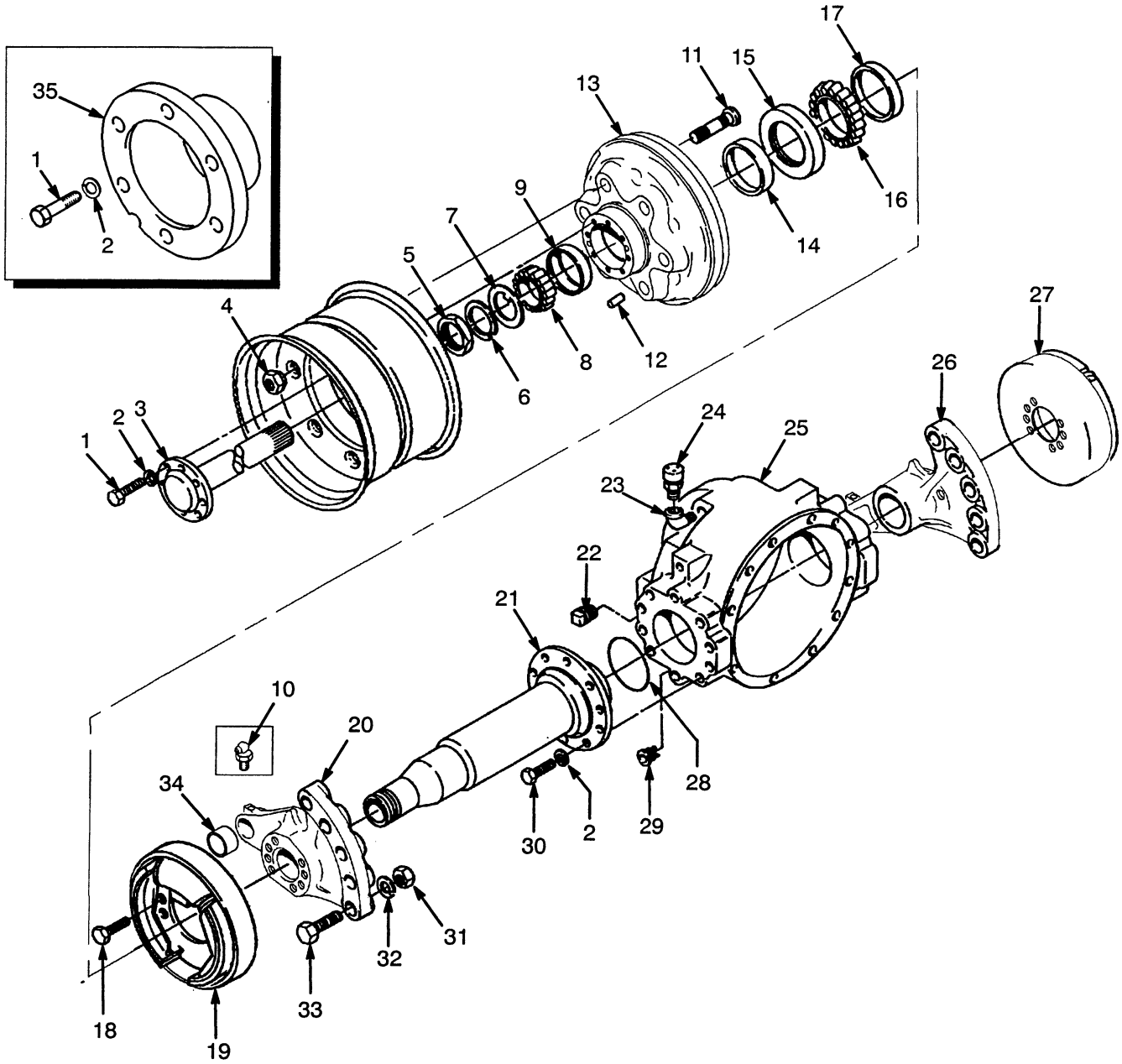
KEY:
A: Gasoline And LPG 2.0L And 2.2L
B: Diesel; Gasoline, And LPG 3.0L

REF	PART NO.	NAME OF PART	QTY A	QTY B
1	[a]1344146	Hose	1	..
1	[b]1382320	Hose	1	..
1	1351134	Hose	..	1
2	[a]1331162	Hose	1	..
2	[b]1371429	Hose	1	..
2	1371429	Hose	1	..
2	1351135	Hose	..	1
3	16568	Fitting	1	..
3	17167	Fitting	..	1
3	16484	O-Ring	1	1
4	14506	Fitting	1	1
5	17309	Fitting	1	1
6	17315	Fitting	1	1
7	140660	Clamp	2	2
8	320157	Washer	2	2
9	292681	Lockwasher	2	2
10	239503	Nut	2	2

[a] Last Used On S/N D177B-23279
[b] First Used On S/N D177B-23280

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DRIVE AXLE (Figure 167)



DRIVE AXLE

REF		PART NO.	NAME OF PART	QTY
1		300794	Capscrew	16
1	a	326488	Capscrew	16
2		292683	Lockwasher	36
3		1383463	Axle Shaft	2
3		313022	Sealant	AR
4		11276	Nut	12
5		33657	Locknut	2
6		145978	Lockwasher	2
7		85885	Washer	2
8		264892	Bearing Cone	2
9		264893	Bearing Cup	2
10		16009	Lube Fitting	2
11		137154	Stud	12
12		328390	Dowel Pin	4
13		1335986	Brake Drum	2
14		300800	Seal	2
15		224571	Bearing Cup	2
16		224570	Bearing Cone	2
17		300801	Seal	2
18		1327246	Bolt	16
19		.....	Brake	1
		☞ Figure 173		

REF		PART NO.	NAME OF PART	QTY
20		1335503	Bracket	1
21		300758	Spindle	2
21		251979	Lubricant	AR
22		15303	Fitting	1
23		16151	Fitting	1
24		21420	Breather Plug	1
25		1334791	Axle Housing	1
25		313022	Adhesive	AR
26		1335502	Bracket	1
27		.....	Brake	1
		☞ Figure 173		
28		39714	O-Ring	2
29		15290	Fitting	1
30		292528	Capscrew	20
31		292620	Nut	10
32		292687	Lockwasher	10
33		292588	Capscrew	10
34		1333385	Bushing	2
35	a	1347020	Spacer	2

a Dual Wheels

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NOTES

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STEERING SYSTEM

STEERING AXLE (Figure 169) ..... Page 310

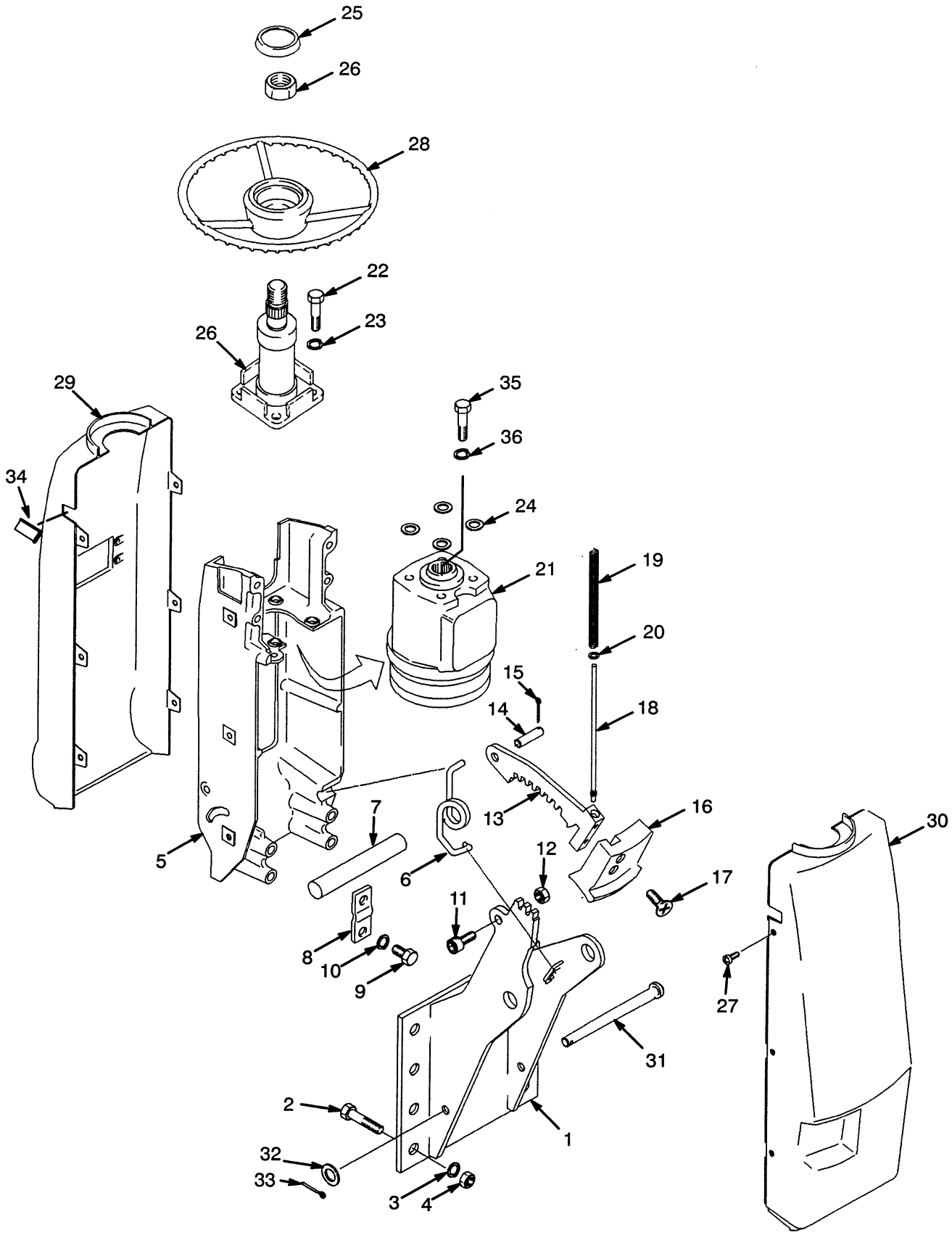
STEERING CONTROL UNIT (Figure 170) ..... Page 312

STEERING CYLINDER (Figure 171) ..... Page 313

STEERING POD (Figure 168) ..... Page 308

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STEERING POD (Figure 168)



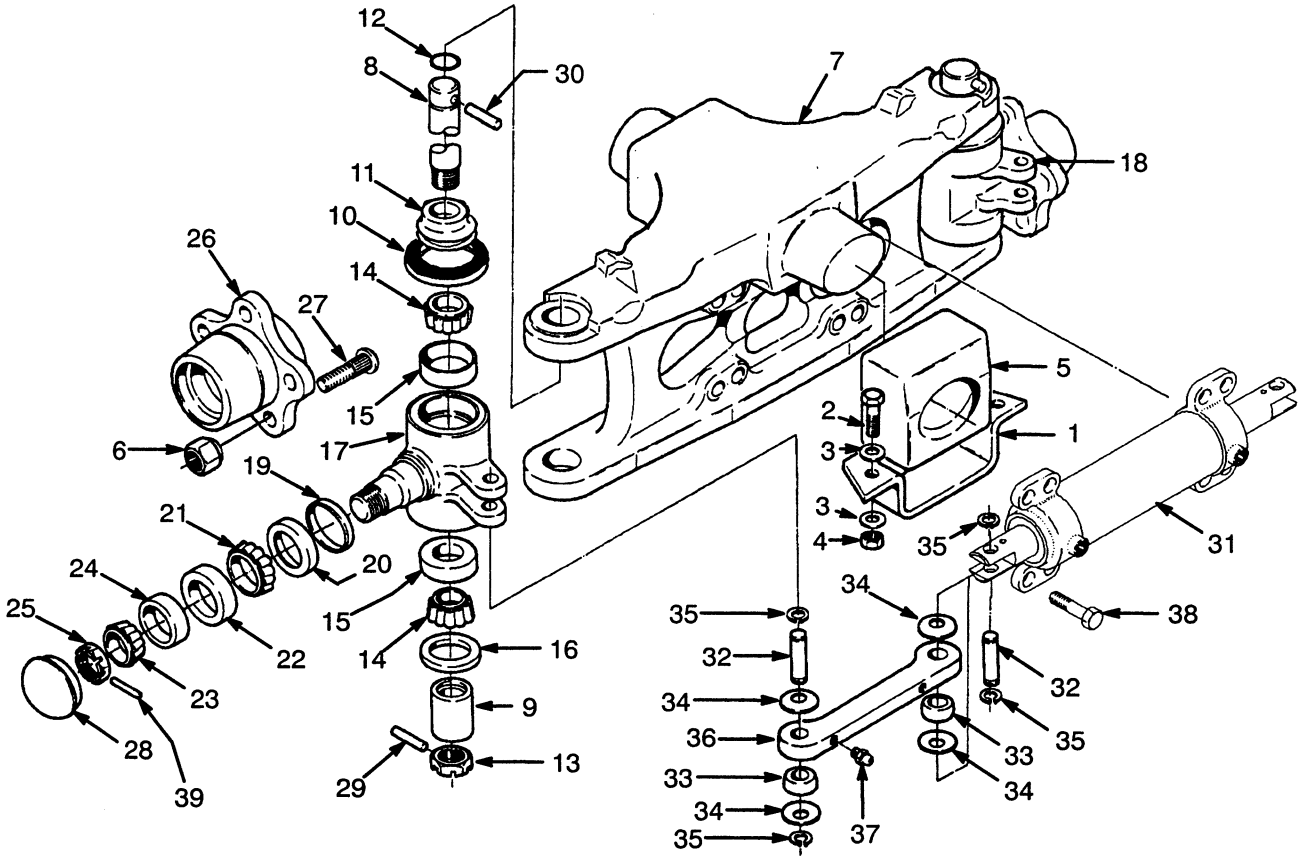
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STEERING POD

REF	PART NO.	NAME OF PART	QTY
1	1337043	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	Nut	1
13	1364271	Gear Latch	1
14	1343607	Pin	1
15	15212	Pin	1
16	1343574	Anchor	1
17	296472	Screw	2
18	1343572	Rod	1
19	1343537	Spring	1
20	320155	Washer	1
21	.....	Steering Control Unit ☞ Figure 170	1
22	16815	Capscrew	4
23	15156	Lockwasher	4
24	15134	Washer	4
25	1347135	Horn Button	1
26	1347025	Steering Column	1
26	345423	Nut	1
27	1337196	Screw	6
28	1329250	Steering Wheel	1
29	1376744	Cover (Upper)	1
30	1376745	Cover (Lower)	1
31	1352616	Pin	1
32	320156	Washer	1
33	18824	Cotter Pin	1
34	1376743	Plug	1
35	293762	Screw	4
36	293779	Washer	4

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STEERING AXLE (Figure 169)



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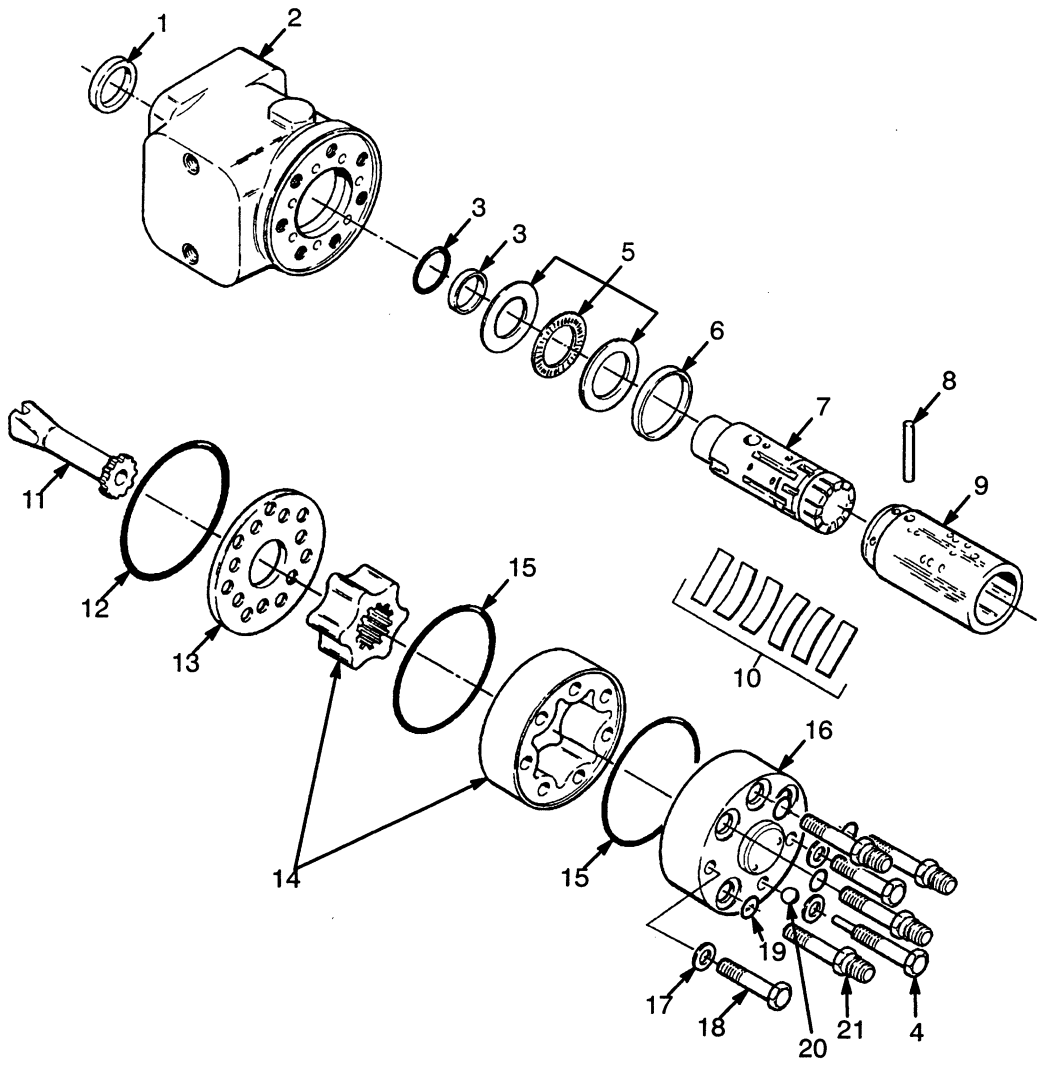
STEERING AXLE

REF		PART NO.	NAME OF PART	QTY
1		1334723	Plate	2
2		293648	Capscrew	4
3		320161	Washer	8
4		300937	Nut	4
5		1343831	Mount	2
6		60949	Nut	10
7		1334718	Steering Axle	1
8	a	300765	Kingpin	2
9	a	300766	Sleeve	2
10	a	264973	Seal	2
11	a	300767	Spacer	2
12	a	39352	O-Ring	2
13		249289	Slotted Nut	2
14	a	156195	Bearing Cone	4
15	a	156194	Bearing Cup	4
16	a	98525	Seal	2
17		1310599	Spindle (LH)	1
18		1315425	Spindle (RH)	1
19		44542	Oil Seal	2
20	a	164639	Wear Sleeve	2
21		30273	Bearing Cone	2
22		163970	Bearing Cup	2
23		317076	Bearing Cone	2
24		317075	Bearing Cup	2
25		1383777	Nut	2
26		300738	Hub	2
27		339529	Wheel Stud	10
28		69029	Hub Cap	2
29		15225	Pin	2
30	a	226986	Grooved Pin	2
31		.....	Steering Cylinder ☞ Figure 171	1
32		326498	Pin	4
33		300751	Bushing	4
34		300752	Washer	8
35		58903	Snap Ring	8
36		381298	Tie Rod	2
37		13957	Grease Fitting	6
38		293686	Capscrew	8
39		15227	Pin	2

a Included In Kingpin Kit 334717
For One Side

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STEERING CONTROL UNIT (Figure 170)



REF		PART NO.	NAME OF PART	QTY
		1347024	Steering Control Unit	1
1		1355322	Seal Ring	1
2		.....	Housing	1
3	ab	1384429	Seal	1
3	ab	.....	O-Ring	1
3	ab	.....	Ring	1
3	ac	2032230	Seal	1
4		346208	Screw	1
5		345410	Bearing	1
6		345411	Ring	1
7		.....	Spool	1
8		345412	Pin	1
9		.....	Sleeve	1
10		1303787	Spring Set	1
11		1355326	Shaft	1

REF		PART NO.	NAME OF PART	QTY
12	a	1355327	O-Ring	1
13		1355328	Plate	1
14		1355329	Gear Set	1
15	a	1355330	O-Ring	2
16		1355331	Cover-End	1
17	a	381370	Washer	3
18		346205	Capscrew	2
19	a	1355332	O-Ring	4
20		1355335	Ball	1
21		1355334	Screw	4

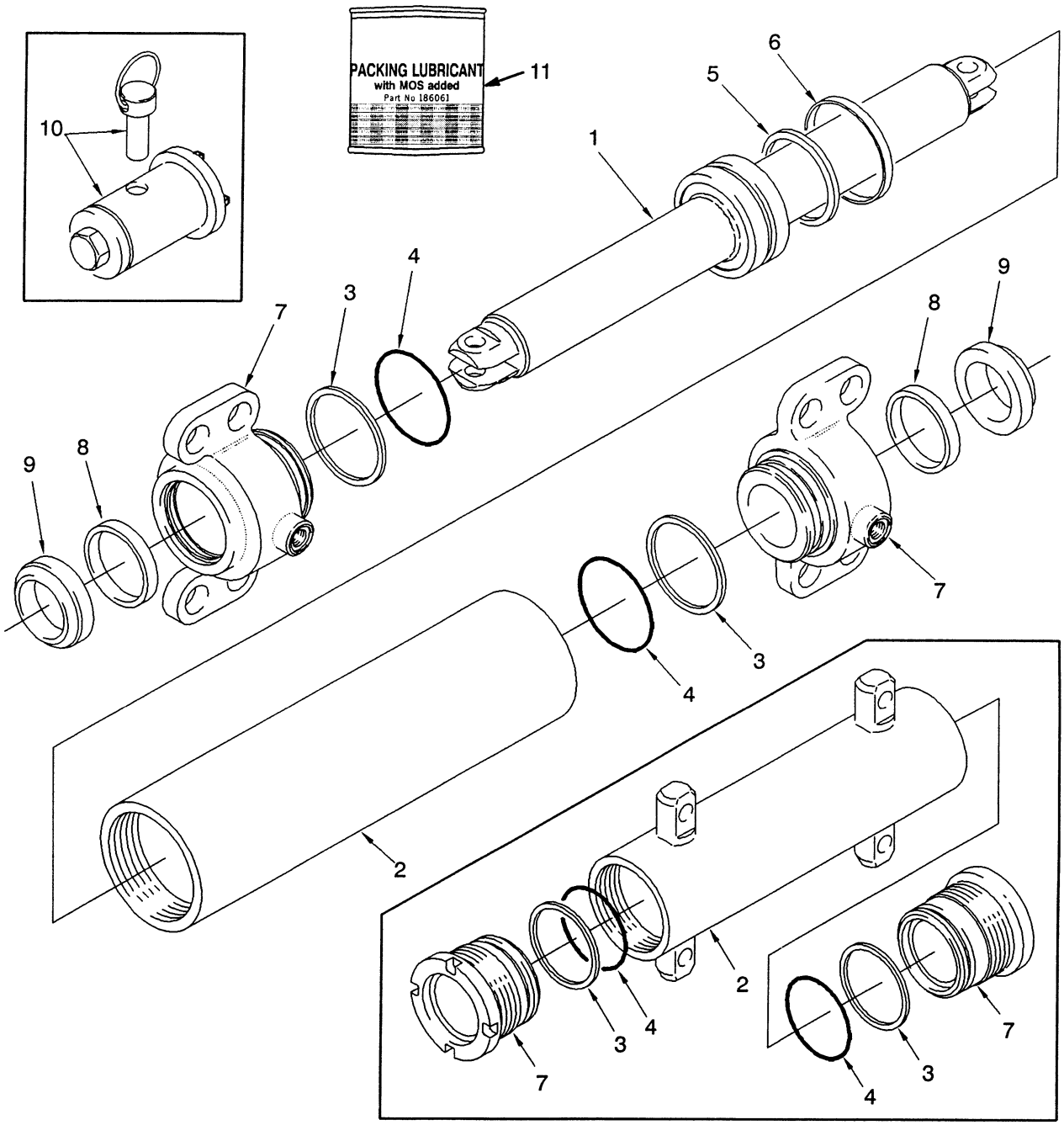
a Included In Seal Kit 1355337

b Last Used On Steering Control Unit Date Code 96/02

c First Used On Steering Control Unit Date Code 96/03

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STEERING CYLINDER (Figure 171)



REF		PART NO.	NAME OF PART	QTY
		1321174	Cylinder	1
1		375634	Rod And Piston	1
2		375635	Shell	1
3	a	147973	Back-Up Ring	2
4	a	130825	O-Ring	2
5	a	243190	Quadrant Ring	1
6	a	199851	Seal	1
7		1321149	End Cap	2
8	a	210183	Rod Seal	2
9	a	203071	Wiper	2
10		332495	Tool Kit	1
11		186061	Packing Lubricant	AR

a Included In Seal Kit 360299

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NOTES

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BRAKE

BRAKE (Figure 173) ..... Page 318

BRAKE LINES (Figure 174) ..... Page 320

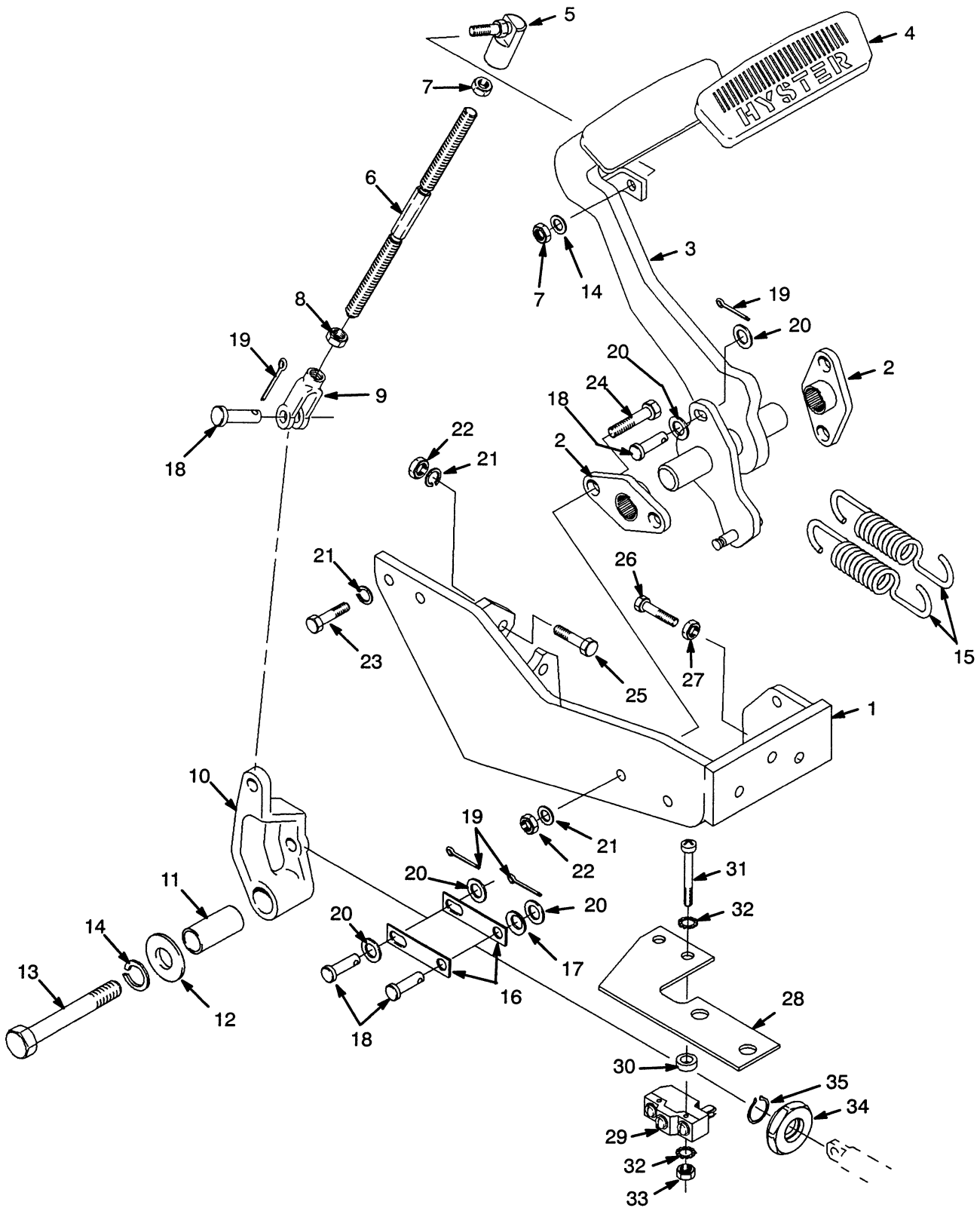
BRAKE PEDAL LINKAGE (Figure 172) ..... Page 316

MASTER CYLINDER (Figure 176) ..... Page 322

PARK BRAKE (Figure 175) ..... Page 321

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BRAKE PEDAL LINKAGE (Figure 172)



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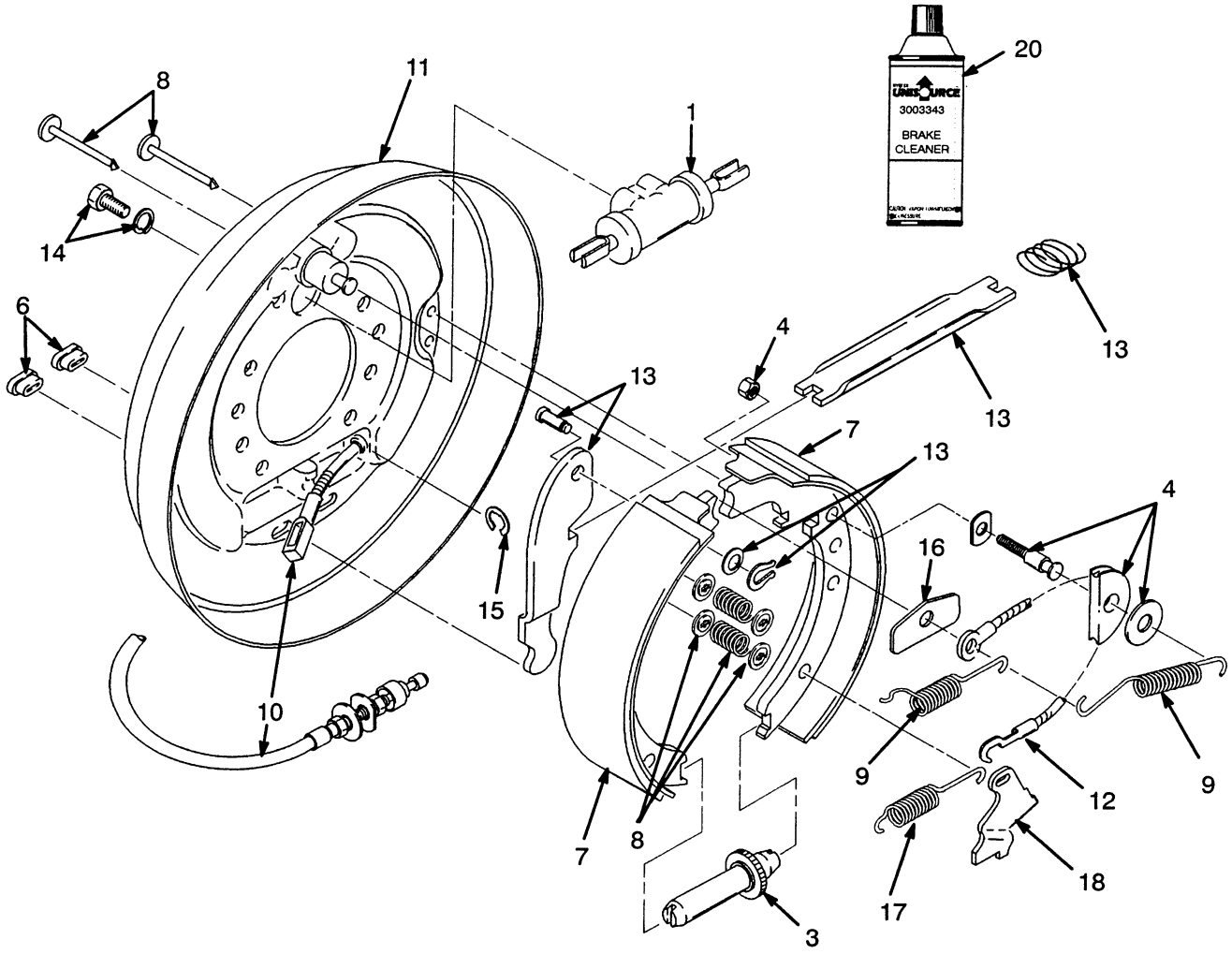
BRAKE PEDAL LINKAGE

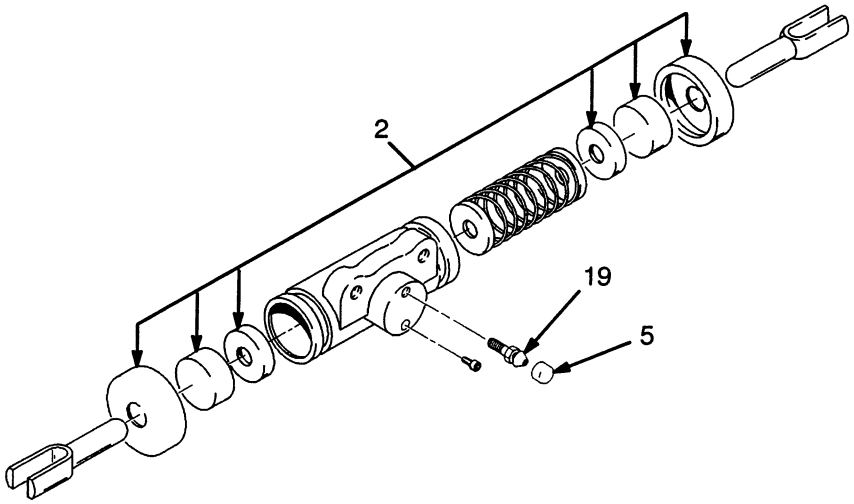
REF		PART NO.	NAME OF PART	QTY
1		1343541	Bracket	1
2		1327161	Bushing	2
3		1343540	Pedal	1
4		1343630	Pad	1
5		1338260	Ball Joint	1
6		2033602	Link	1
7		15025	Nut	2
8		16897	Nut	1
9		1338262	Rod End	1
10		1343553	Inching Crank	1
11		1337108	Spacer	1
12		332755	Washer	1
13		136703	Capscrew	1
14		292681	Lockwasher	2
15		1343508	Spring	2
16		1337091	Half Link	2
17		375984	Spring Washer	1
18		142	Pin	4
19		15212	Pin	4
20		320159	Washer	7
21		292682	Lockwasher	6
22		136692	Nut	4
23		287854	Capscrew	6
24		136985	Capscrew	2
25		287860	Capscrew	2
26		292533	Capscrew	1
27		296130	Nut	1
28		1324557	Bracket	1
29	a	1320893	Switch	1
30	a	316132	Spacer	1
31	a	86510	Screw	2
32	a	16743	Washer	4
33	a	15049	Nut	2
34	a	387455	Disc	1
35	a	209417	Snap Ring	1

a Monotrol Pedal

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BRAKE (Figure 173)





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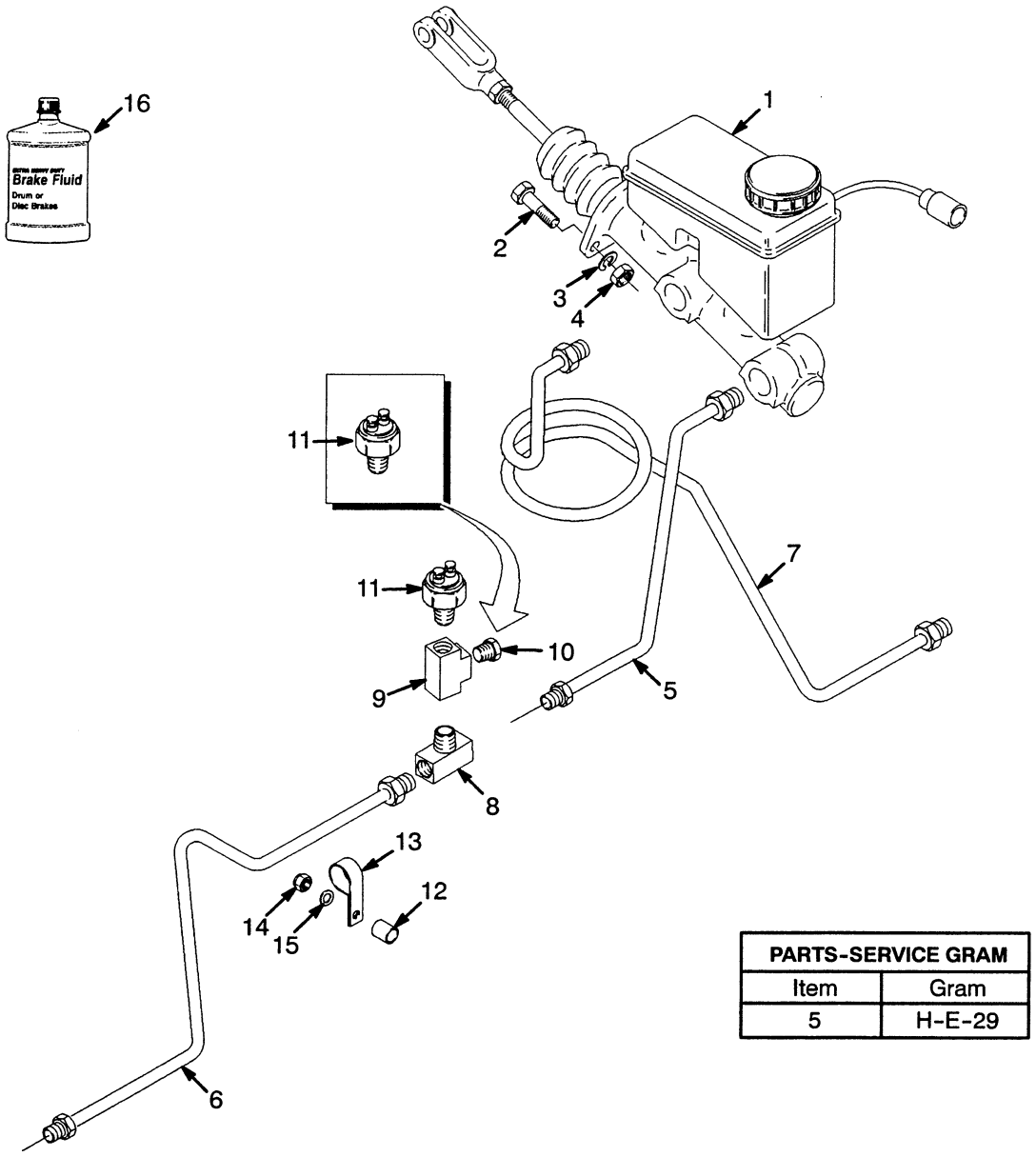
BRAKE

KEY:
A: RH Brake
B: LH Brake

REF	PART NO.	NAME OF PART	QTY A	QTY B
	1338255	Brake	1	..
	1338256	Brake	..	1
1	1334648	Wheel Cylinder	1	1
2	1334647	Kit-Wheel Cylinder	1	1
3	1334646	Adjuster	..	1
3	1334645	Adjuster	1	..
4	1379758	Kit (Sheave)	1	1
5	1361504	Cap	1	1
6	1334642	Cover	2	2
7	1358223	Kit-Shoe/Lining	1	1
8	1334639	Kit-Shoe Hold Down	1	1
9	1334638	Kit-Spring	1	1
10	1358225	Cable (LH Parking)	..	1
10	1358224	Cable (RH Parking)	1	..
11	1347971	Backing Plate	1	..
11	1347970	Backing Plate	..	1
12	1360792	Cable & Fitting Assembly	1	1
13	1375048	Kit-Parking Brake (LH)	..	1
13	1375049	Kit-Parking Brake (RH)	1	..
14	1360798	Bolt Assy	1	1
15	1361502	Snap Ring	1	1
16	1361501	Plate	1	1
17	1360793	Spring	1	1
18	1360794	Lever (RH)	1	..
18	1361505	Lever (LH)	..	1
19	1361503	Bleeder Screw	1	1
20	3003343	Brake Cleaner	AR	AR

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BRAKE LINES (Figure 174)



PARTS-SERVICE GRAM	
Item	Gram
5	H-E-29

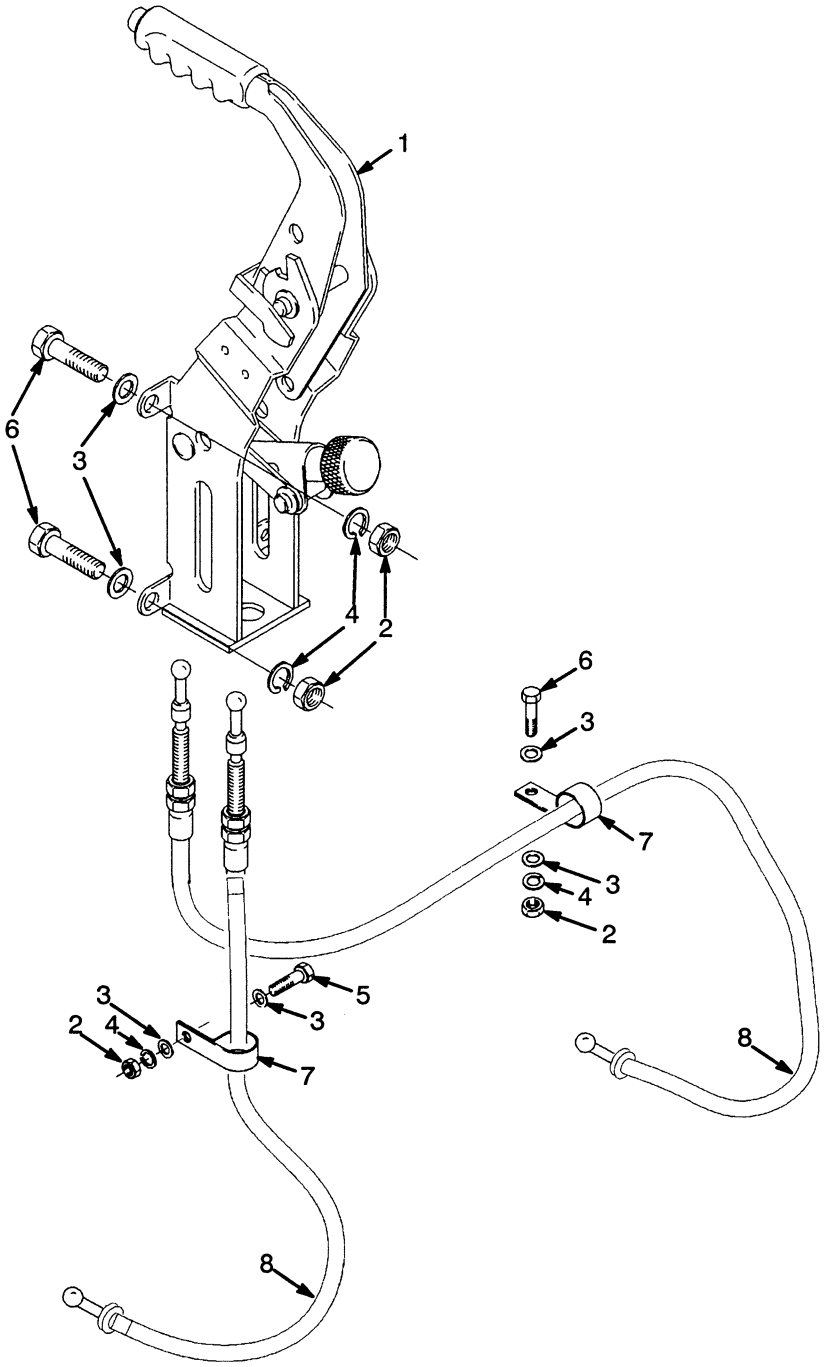
REF		PART NO.	NAME OF PART	QTY
1		.....	Master Cylinder	1
			☞ Figure 176	
2		287860	Capscrew	2
3		292682	Lockwasher	2
4		136692	Nut	2
5	c	1347113	Tube (RH).	1
5	d	1381923	Hose Assy	1
6		1347091	Tube (RH).	1
7		1347090	Tube (LH)	1
8		14899	Fitting	1
9		12838	Fitting	1
10	a	14349	Fitting	1
11	a	387867	Switch	1

REF		PART NO.	NAME OF PART	QTY
11	b	387867	Switch	2
12		1337382	Spacer	1
13		1347116	Clamp	1
14		302400	Nut	1
15		320158	Washer	1
16		357956	Brake Fluid (1 Gallon)	AR
16		357973	Brake Fluid (1 Quart)	AR
16		26758	Brake Fluid (12 Ounces)	AR

a Forward/Reverse Lever
b Monotrol Pedal
c First Used On S/N D177B-2342
d Last Used On S/N D177B-2343

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PARK BRAKE (Figure 175)



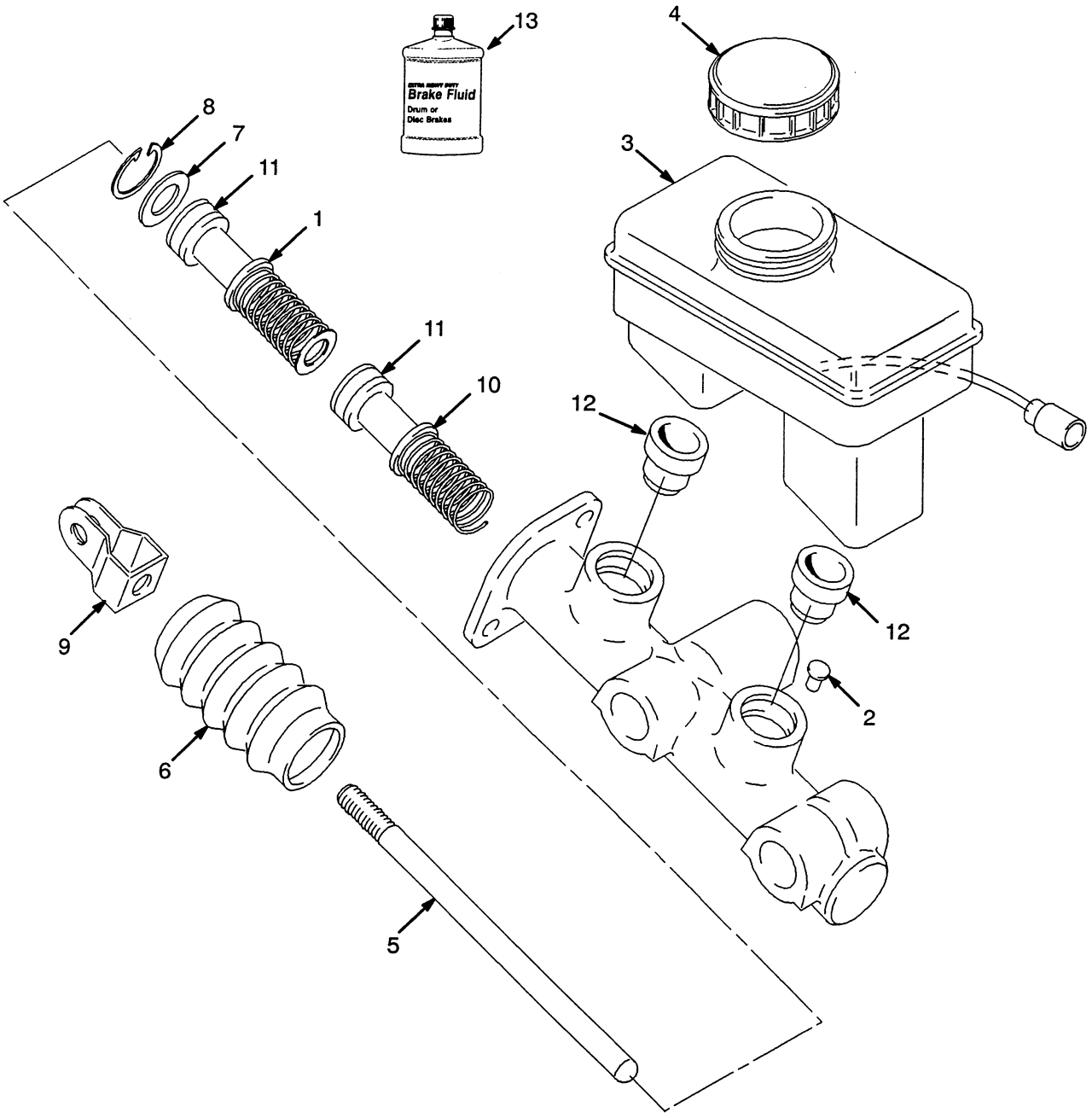
REF	PART NO.	NAME OF PART	QTY
1	1376557	Park Brake	1
2	239503	Nut	6
3	320157	Washer	8
4	292681	Lockwasher	6
5	176640	Capscrew	1
6	136749	Capscrew	5
7	124297	Clamp	2
8 [a]	.....	Cable	2

[a] Note: Cables Are Included With Service Brake Assemblies

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MASTER CYLINDER (Figure 176)



REF	PART NO.	NAME OF PART	QTY
	1347048	Master Cylinder	1
1	1357197	Piston	1
2	1324029	Pin	1
3	1357199	Reservoir	1
4	1324048	Cap	1
5	1357201	Rod	1
6	1324040	Cover	1
7	1324041	Washer	1
8	1324042	Snap Ring	1

REF		PART NO.	NAME OF PART	QTY
9		1324035	Clevis	1
10		1357196	Piston	1
11	a	.....	Seal	2
12	a	.....	Seal	2
13		357956	Brake Fluid (1 Gallon)	AR
13		357973	Brake Fluid (1 Quart)	AR
13		26758	Brake Fluid (12 Ounces)	AR

a Included In Seal Kit 1355305

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HYDRAULIC SYSTEM

CONTROL VALVE (Figure 187)
THREE FUNCTION ..... Page 342

FLOW VALVE (Figure 182)
LAST USED ON S/N D177B-15601 ..... Page 334

FLOW VALVE (Figure 183)
FIRST USED ON S/N D177B-15602 ..... Page 335

HYDRAULIC (Figure 177) ..... Page 324

HYDRAULIC PUMP (Figure 178)
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HYDRAULIC PUMP (Figure 179)
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HYDRAULIC PUMP (Figure 180)
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TILT CYLINDER (Figure 184)
GROUP NUMBER 8601501 ..... Page 337

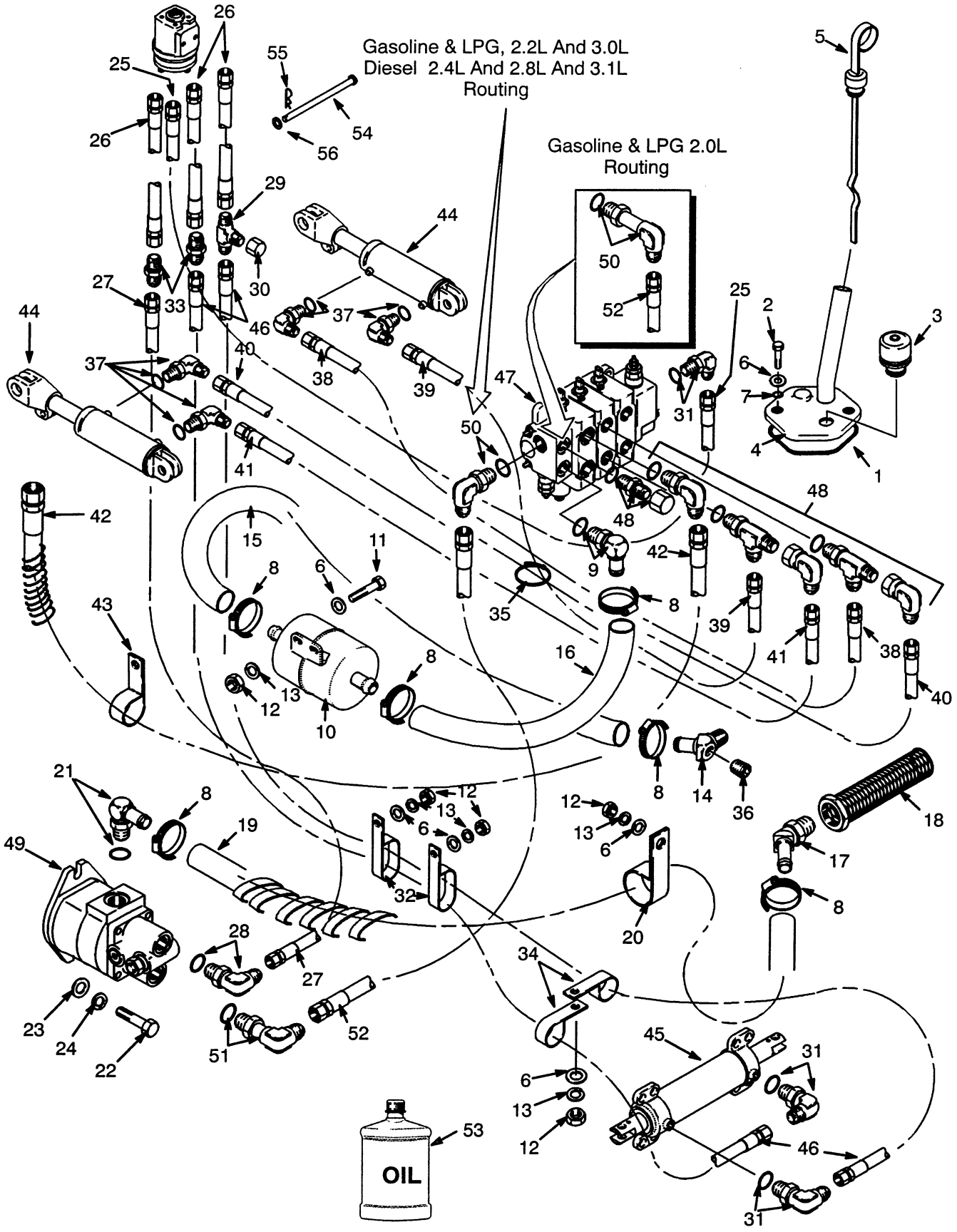
VALVE ATTACHING PARTS (Figure 185)
PUSH AWAY LEVERS ..... Page 338

VALVE ATTACHING PARTS (Figure 186)
DIRECT ACTING LEVERS ..... Page 340

VALVE (Figure 188)
FOUR FUNCTION ..... Page 344

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HYDRAULIC (Figure 177)



HYDRAULIC

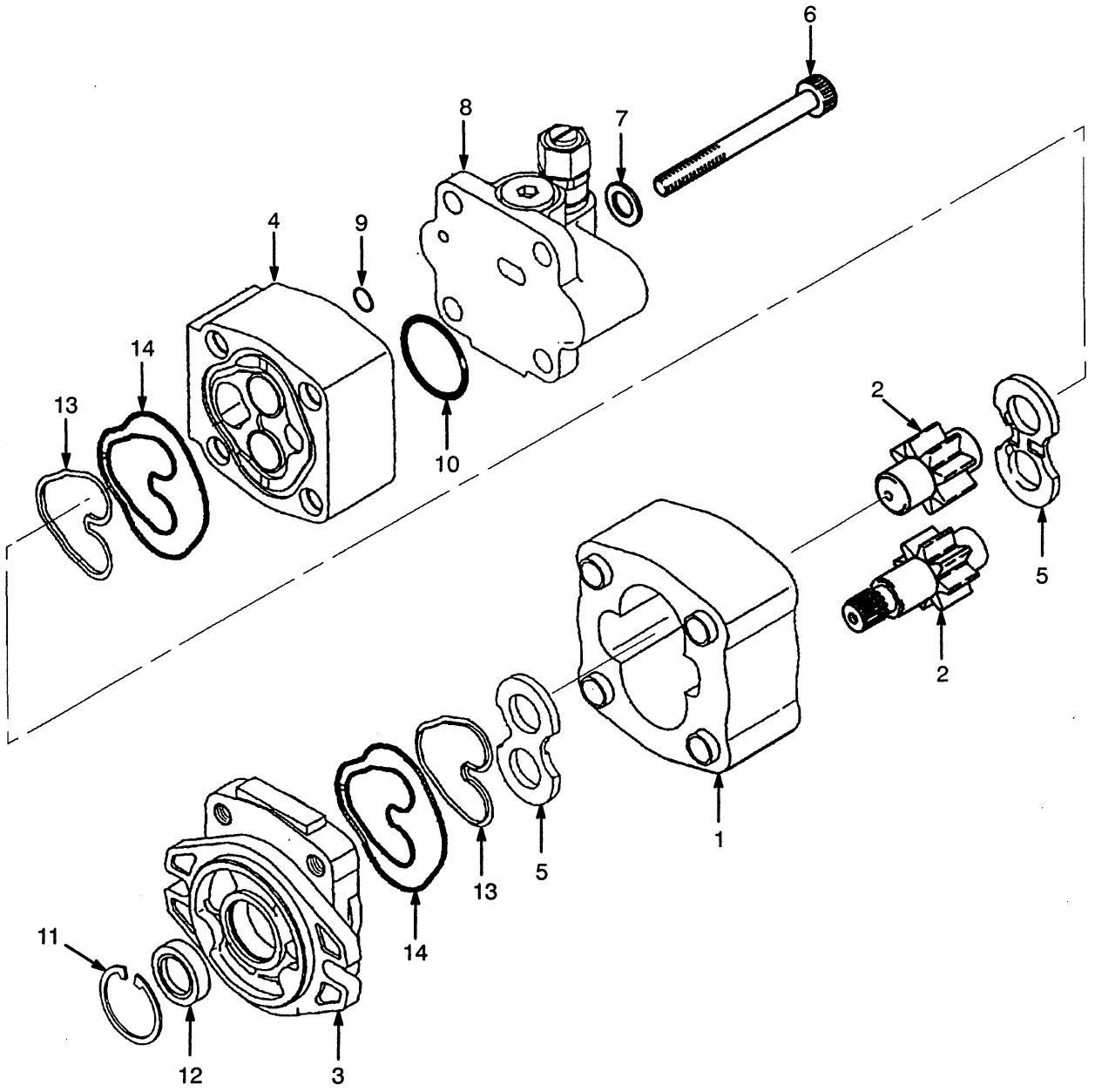
REF		PART NO.	NAME OF PART	QTY
1		1343449	Seal	1
2		329067	Screw	2
3		1356393	Breather	1
4		1339700	Tank Cover	1
5		1339647	Dipstick	1
6		320157	Washer	12
7		353000	O-Ring	2
8		127045	Clamp	6
9		1343452	Fitting	1
10		1337159	Filter	1
11		136749	Capscrew	2
12		239503	Nut	8
13		292681	Lockwasher	8
14		1343560	Fitting	1
15		1367431	Hose	1
16		878574	Hose	1
17		222477	Fitting	1
18		1328680	Suction Screen	1
19		1339791	Suction Hose	1
20		335047	Clamp	1
21		1350273	Fitting	1
22		1356103	Screw	2
23		292682	Lockwasher	2
24		320159	Washer	2
25		1347156	Hose	1
26	e	278510	Hose	3
26		78010	Hose	3
27	e	171098	Hose	1
27	f	168389	Hose	1
28		110174	Fitting	1
28		16484	O-Ring	1
29		1347212	Fitting	1
30		16923	Fitting	1
31		16558	Fitting	3
31		16484	O-Ring	3
32		110322	Clamp	2
33		14691	Fitting	2
34		101625	Clamp	2
35		137852	Clamp	3
36		15347	Fitting	1
37		16556	Fitting	4
37		16481	O-Ring	4
38		1347027	Hose	1
39		1347028	Hose	1
40		1347029	Hose	1
41		1347030	Hose	1
42		1351077	Hose	1
43		176452	Clamp	1
44		.....	Tilt Cylinder ☞ Figure 184	2
45		.....	Steering Cylinder ☞ Figure 171	1
46	e	1350234	Hose	2
46	f	1382316	Hose	2
47		.....	Control Valve ☞ Figure 187, Figure 188	1
48		.....	Fittings ☞ Figure 185, Figure 186	..
49		.....	Hydraulic Pump ☞ Figure 178, Figure 180	1
50	a	1352157	Fitting	1
50	b	16560	Fitting	1
50	b	16485	O-Ring	1
51	c	222413	Fitting	1
51	c	16485	O-Ring	1
51	d	16560	Fitting	1
51	d	16485	O-Ring	1
52		1361584	Hose (Diesel)	1
52		1351140	Hose (Gas & LPG)	1
53		3021203	Hydraulic Oil 55 Gallon	AR
54		1352616	Pin	1
55		18824	Pin	1
56		320156	Washer	1

a Used With Gasoline & LPG 2.0L
b Used With Gasoline & LPG 2.2L & 3.0L And All Diesel
c Used With All Gasoline & LPG (Single Gear Pump)
d Used With All Gasoline & LPG (Double Gear Pump) And All Diesel
e Last Used On S/N D177B-23279
f First Used On S/N D177B-23280
g First Used On S/N D177B-23280 Thru S/N Pending Per ECN 59560-25

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HYDRAULIC PUMP (Figure 178)

SINGLE GEAR



HYDRAULIC PUMP

SINGLE GEAR

KEY:
A: Gasoline And LPG 2.0L, 2.2L, And Gasoline 3.0L, And Diesel 2.4L
B: Diesel 2.8L And 3.1L
C: LPG 3.0L

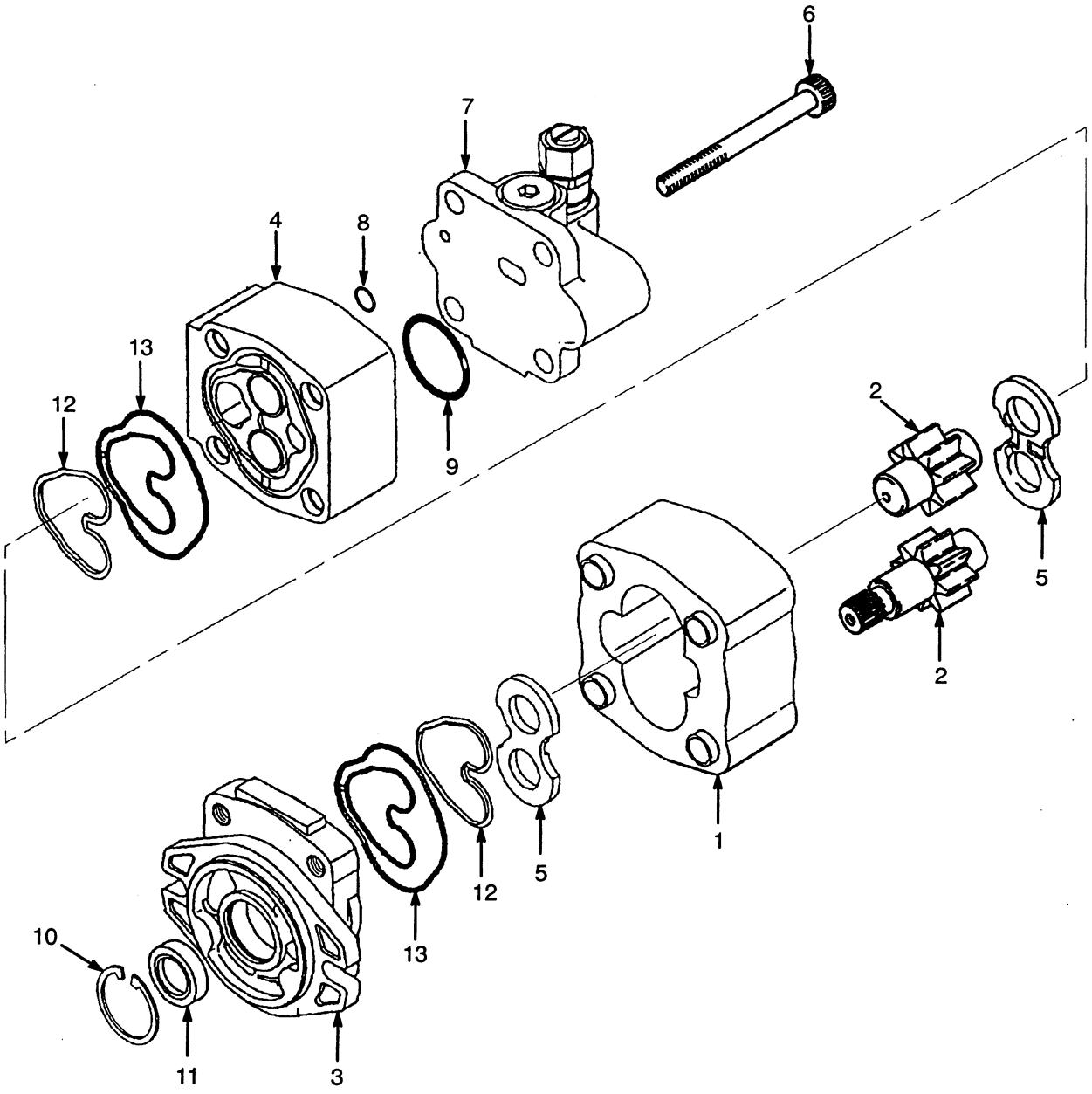
REF		PART NO.	NAME OF PART	QTY A	B	C
	a	1335922	Hydraulic Pump	1	..	..
	b	1375160	Hydraulic Pump	1	..	..
	a	1335924	Hydraulic Pump	..	1	..
	b	1375162	Hydraulic Pump	..	1	..
	d	1375161	Hydraulic Pump	..	..	1
1		....	Gear Plate	1	1	1
2		1377266	Gear Set	1	..	..
2		1377265	Gear Set	..	1	..
2		1377264	Gear Set	..	..	1
3		1352040	Flange	1	1	1
4		1352041	Cover	1	1	1
5		1352042	Pressure Plate	2	2	2
6		1352048	Screw	4	..	..
6		1352453	Screw	..	4	..
6		1352456	Screw	..	..	4
7		1352049	Washer	4	4	4
8		....	Flow Valve	1	1	1
			☞ Figure 182			
9	c	....	O-Ring	1	1	1
10	c	....	O-Ring	1	1	1
11	c	....	Snap Ring	1	1	1
12	c	....	Oil Seal	1	1	1
13	c	....	Back-Up Ring	2	2	2
14	c	....	Plate Seal	2	2	2

a Last Used On S/N D177B-15601
b First Used On S/N D177B-15602
c Included In Seal Kit 1352463
d First Used On S/N D177B-39472

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HYDRAULIC PUMP (Figure 179)

SINGLE GEAR



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HYDRAULIC PUMP

SINGLE GEAR

KEY:
A: Gasoline And LPG 2.0L, And Gasoline 3.0L
B: LPG 3.0L

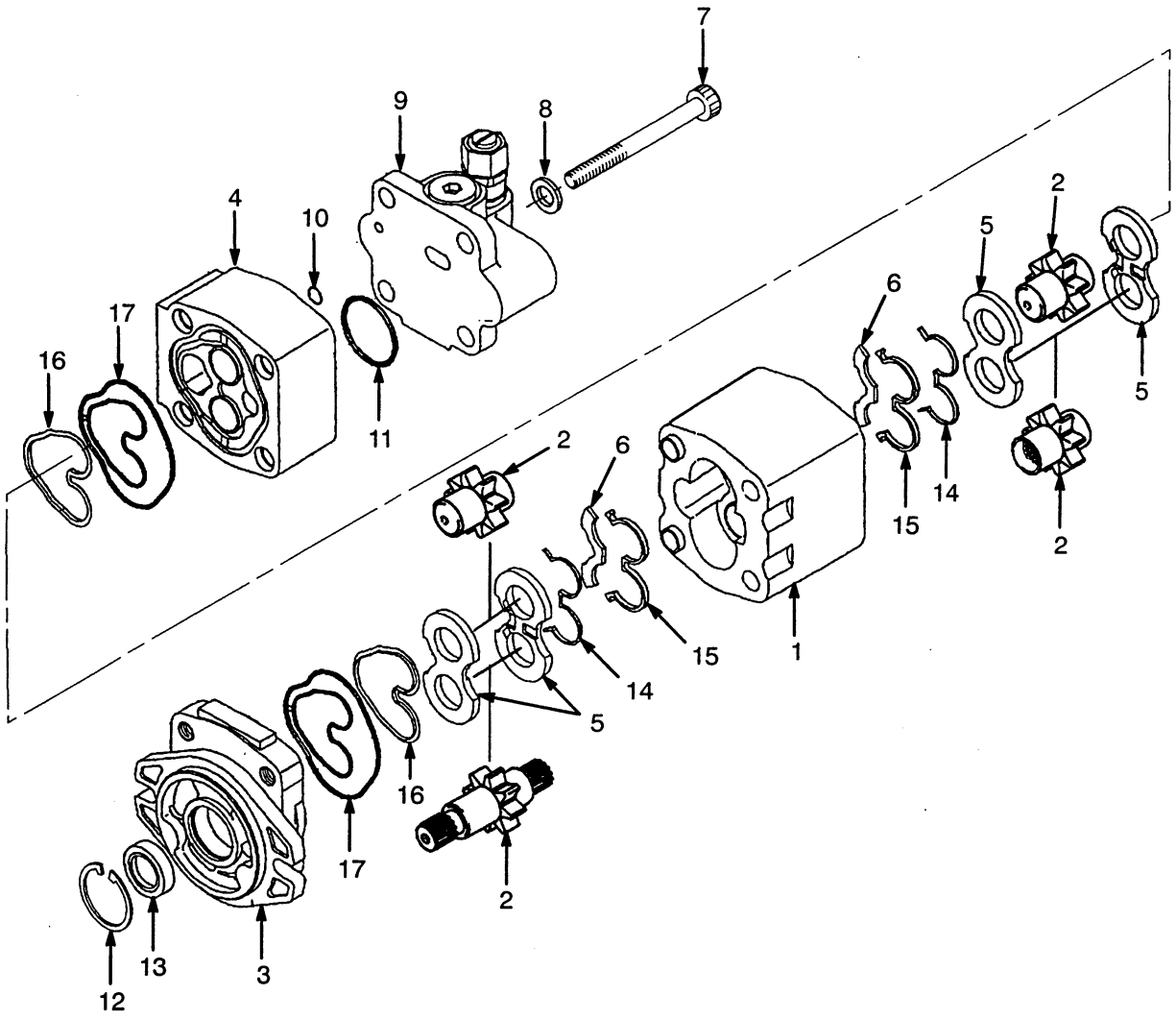
REF	PART NO.	NAME OF PART	QTY A	QTY B
	1455404	Hydraulic Pump	1	..
	1455405	Hydraulic Pump	..	1
1	....	Gear Plate	1	1
2	1377266	Gear Set	1	..
2	1377264	Gear Set	..	1
3	1458802	Flange	1	1
4	1458803	Cover	1	1
5	1458804	Pressure Plate	2	2
6	1458813	Screw	4	..
6	1458805	Screw	..	4
7		Flow Valve	1	1
		☞ Figure 183		
8 [a]	....	O-Ring	1	1
9 [a]	....	O-Ring	1	1
10 [a]	....	Snap Ring	1	1
11 [a]	....	Oil Seal	1	1
12 [a]	....	Back-Up Ring	2	2
13 [a]	....	Plate Seal	2	2

[a] Included In Seal Kit 1352463

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HYDRAULIC PUMP (Figure 180)

DOUBLE GEAR



HYDRAULIC PUMP

DOUBLE GEAR

KEY:
A: Gasoline And LPG 2.0L, 2.2L, And Gasoline 3.0L, And Diesel 2.4L
B: Diesel 2.8L And 3.1L
C: LPG 3.0L

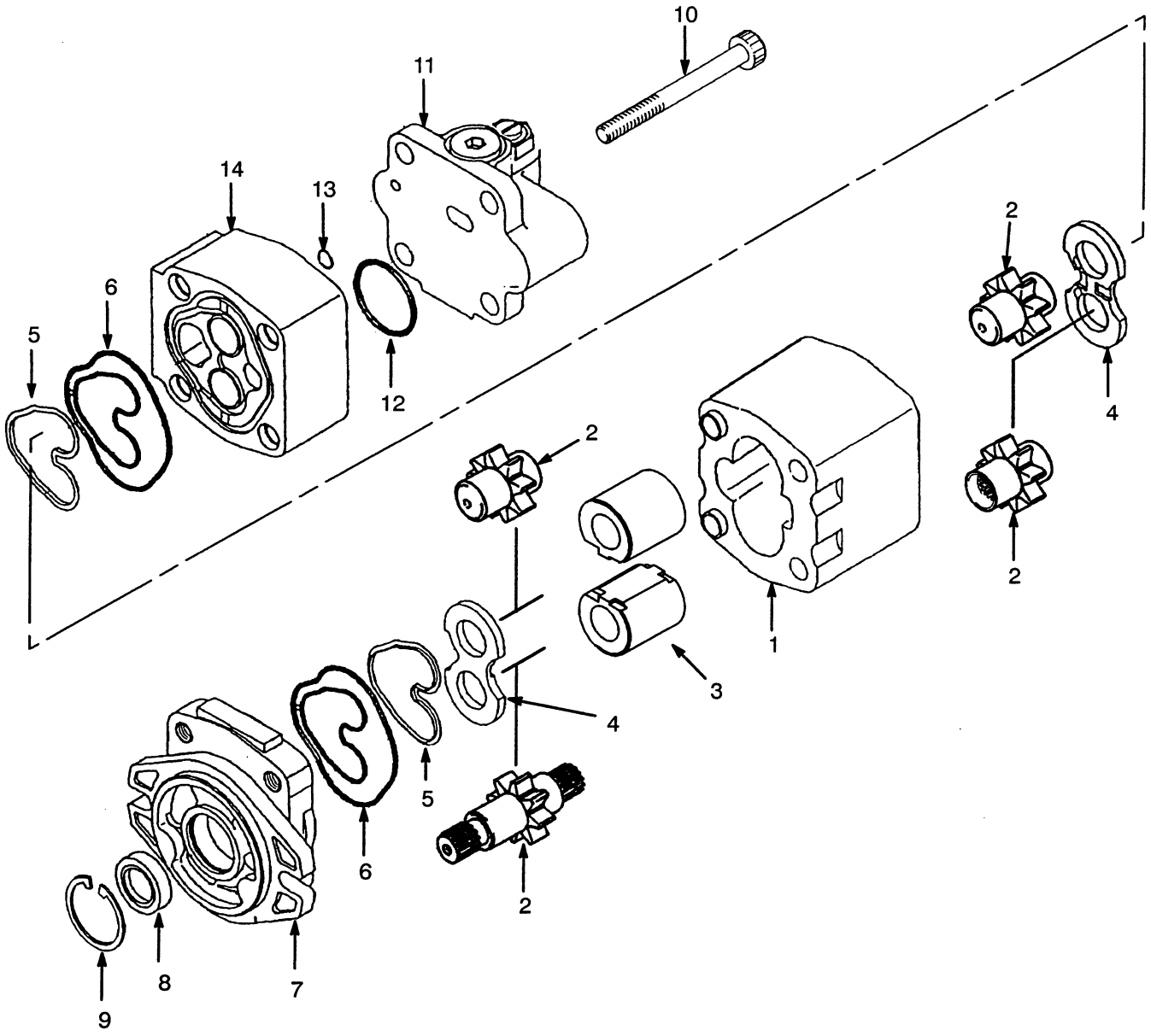
REF		PART NO.	NAME OF PART	QTY A	B	C
	a	1350236	Hydraulic Pump	1	..	..
	b	1375163	Hydraulic Pump	1	..	..
	a	1350238	Hydraulic Pump	..	1	..
	b	1375165	Hydraulic Pump	..	1	..
	d	1375164	Hydraulic Pump	..	..	1
1		....	Gear Plate	1	1	1
2		1377267	Gear Set	1	..	..
2		1377269	Gear Set	..	1	..
2		1377268	Gear Set	..	..	1
3		1354746	Flange	1	1	1
4		1352041	Cover	1	1	1
5		1354748	Pressure Plate	4	4	4
6		1352470	Isolation Plate	2	2	2
7		1352472	Screw	4	..	..
7		1352471	Screw	..	4	..
7		1352482	Screw	..	..	4
8		1352049	Washer	4	4	4
9		....	Flow Valve	1	1	1
			☞ Figure 182, Figure 183			
10	c	....	O-Ring	1	1	1
11	c	....	O-Ring	1	1	1
12	c	....	Snap Ring	1	1	1
13	c	....	Oil Seal	1	1	1
14	c	....	Back-Up Ring	2	2	2
15	c	....	Seal	2	2	2
16	c	....	Back-Up Ring	2	2	2
17	c	....	Seal	2	2	2

a Last Used On S/N D177B-15601
b First Used On S/N D177B-15602 And All 3.0L
c Included In Seal Kit 1352465
d First Used ON S/N D177B-29472

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HYDRAULIC PUMP (Figure 181)

DOUBLE GEAR



HYDRAULIC PUMP

DOUBLE GEAR

KEY:
A: Gasoline And LPG 2.0L, 2.2L, And Gasoline 3.0L, And Diesel 2.4L
B: Diesel 2.8L And 3.1L
C: LPG 3.0L

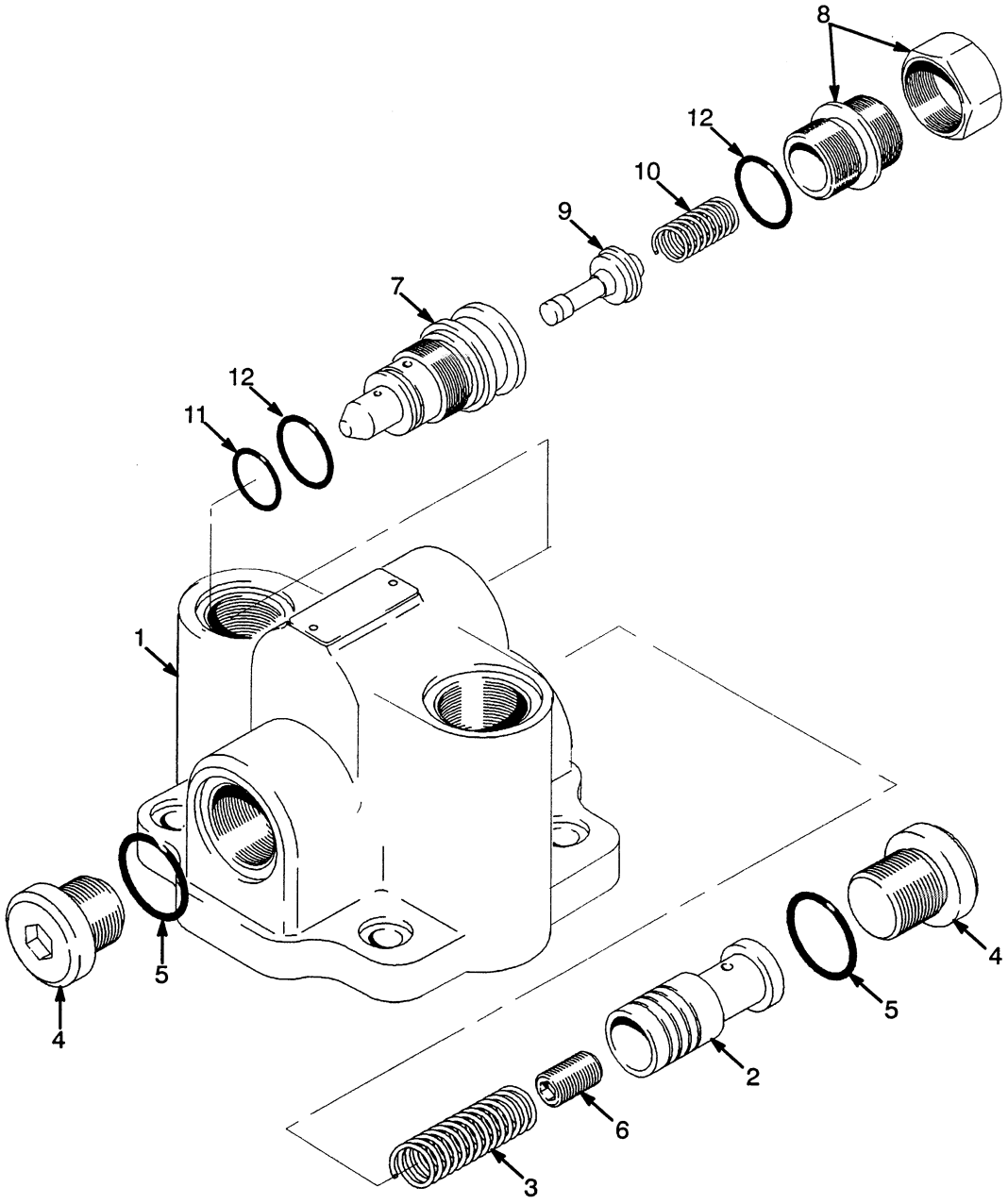
REF		PART NO.	NAME OF PART	QTY A	B	C
		1456472	Hydraulic Pump	1	..	..
		1456474	Hydraulic Pump	..	1	..
		1456473	Hydraulic Pump	..	..	1
1		....	Gear Plate	1	1	1
2		1458814	Gear Set	1	..	..
2		1458819	Gear Set	..	1	..
2		1458806	Gear Set	..	..	1
3		....	Bush	2	2	2
4		1458804	Pressure Plate	2	2	2
5	a	....	Back-Up Ring	2	2	2
6	a	....	Seal	2	2	2
7		1458810	Flange	1	1	1
8	a	....	Oil Seal	1	1	1
9	a	....	Snap Ring	1	1	1
10		1458818	Screw	4	..	..
10		1458823	Screw	..	4	..
10		1458811	Screw	..	..	4
11			Flow Valve	1	1	1
			☞ Figure 182, Figure 183			
12	a	....	O-Ring	1	1	1
13	a	....	O-Ring	1	1	1
14		1458803	Cover	1	1	1

a Included In Seal Kit 1352463

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FLOW VALVE (Figure 182)

LAST USED ON S/N D177B-15601



REF	PART NO.	NAME OF PART	QTY
	1352036	Valve	1
1	....	Body	1
2	....	Plunger	1
3	321797	Spring	1
4	321792	Plug	2
5	16485	O-Ring	2
6	1328822	Plug	1
7	1352032	Relief Valve	1

REF		PART NO.	NAME OF PART	QTY
8		1328824	Kit-Adjuster	1
9		....	Poppet	1
10		1328826	Spring	1
11	a	1328828	O-Ring	1
12	a	1328829	O-Ring	2

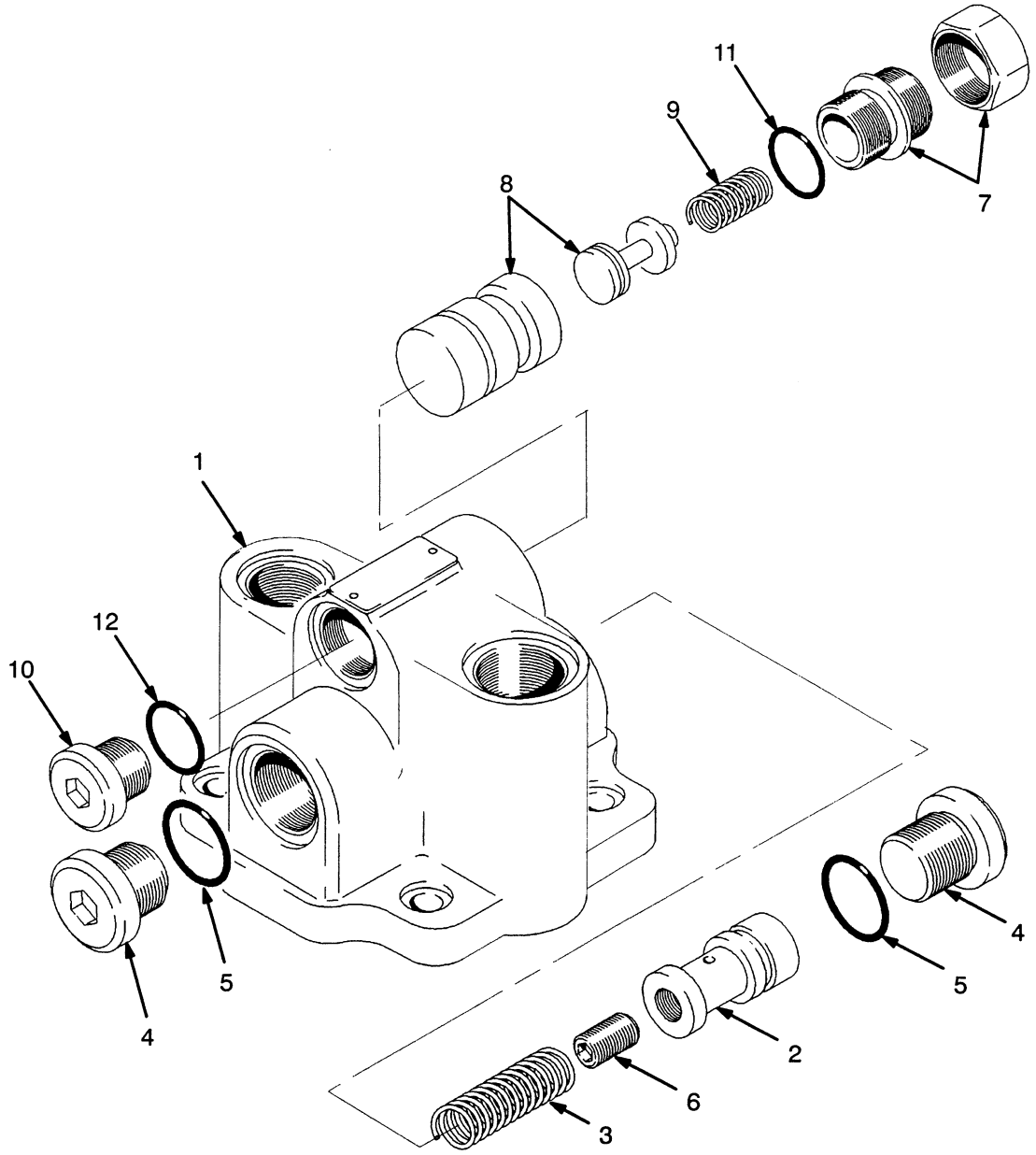
a Included In Seal Kit 1337626

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FLOW VALVE (Figure 183)

FIRST USED ON S/N D177B-15602



REF		PART NO.	NAME OF PART	QTY
		1377255	Valve	1
1		....	Body	1
2		....	Plunger	1
3		321797	Spring	1
4		321792	Plug	2
5	a	16485	O-Ring	2
6		1328822	Plug	1
7		1377256	Adjuster Kit	1
8		1377261	Kit-B	1

REF		PART NO.	NAME OF PART	QTY
8		....	Housing	1
8		....	Poppet	1
9		1377257	Spring	1
10		342703	Plug	1
11	a	1377259	O-Ring	1
12	a	1377260	O-Ring	1

a Included In Seal Kit 1377258

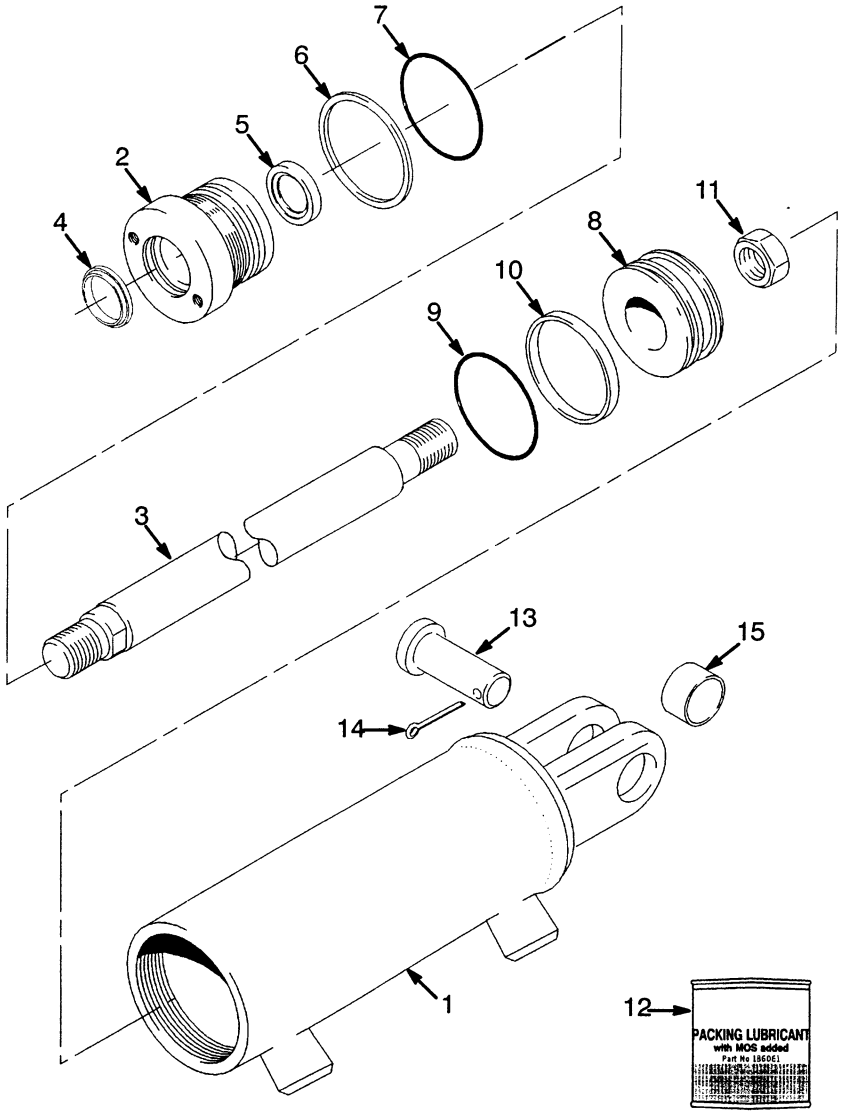
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NOTES

TILT CYLINDER (Figure 184)

GROUP NUMBER 8601501



REF		PART NO.	NAME OF PART	QTY
		1338742	Tilt Cylinder	1
1		1338743	Shell	1
2		1338744	Gland	1
3		1338740	Piston Rod	1
4	a	1338739	Wiper Ring	1
5	a	637151	Seal	1
6	a	154375	Back-Up Ring	1
7	a	46388	O-Ring	1
8		1338741	Piston	1
9	a	59583	O-Ring	1
10	a	293922	Seal Ring	1
11		2302899	Nut	1
12		186061	Lubricant	AR
13		1345354	Pin-Rod End	2
14		15236	Pin	2
15		300982	Bushing	2

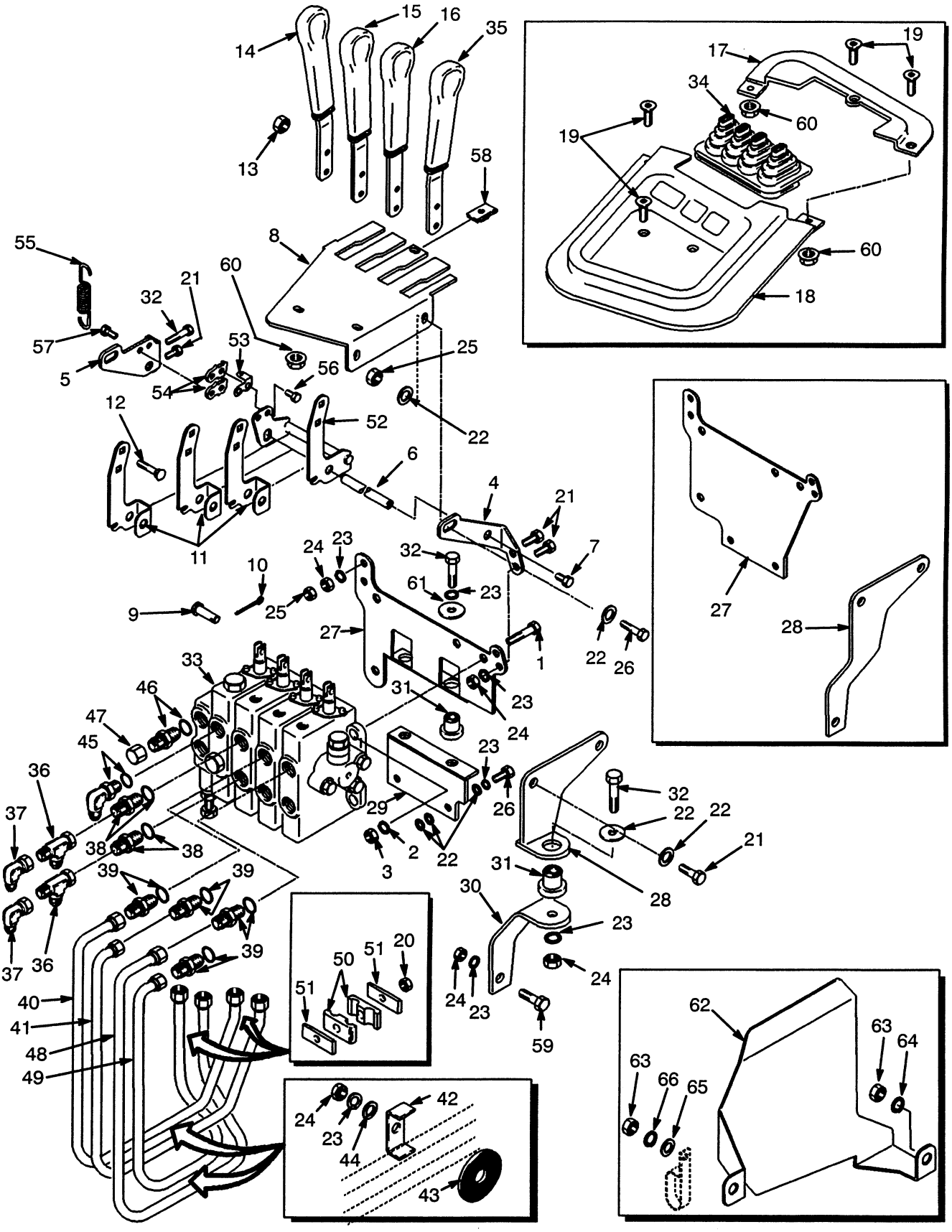
a Included In Seal Kit 1356746

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VALVE ATTACHING PARTS (Figure 185)

PUSH AWAY LEVERS



VALVE ATTACHING PARTS

PUSH AWAY LEVERS

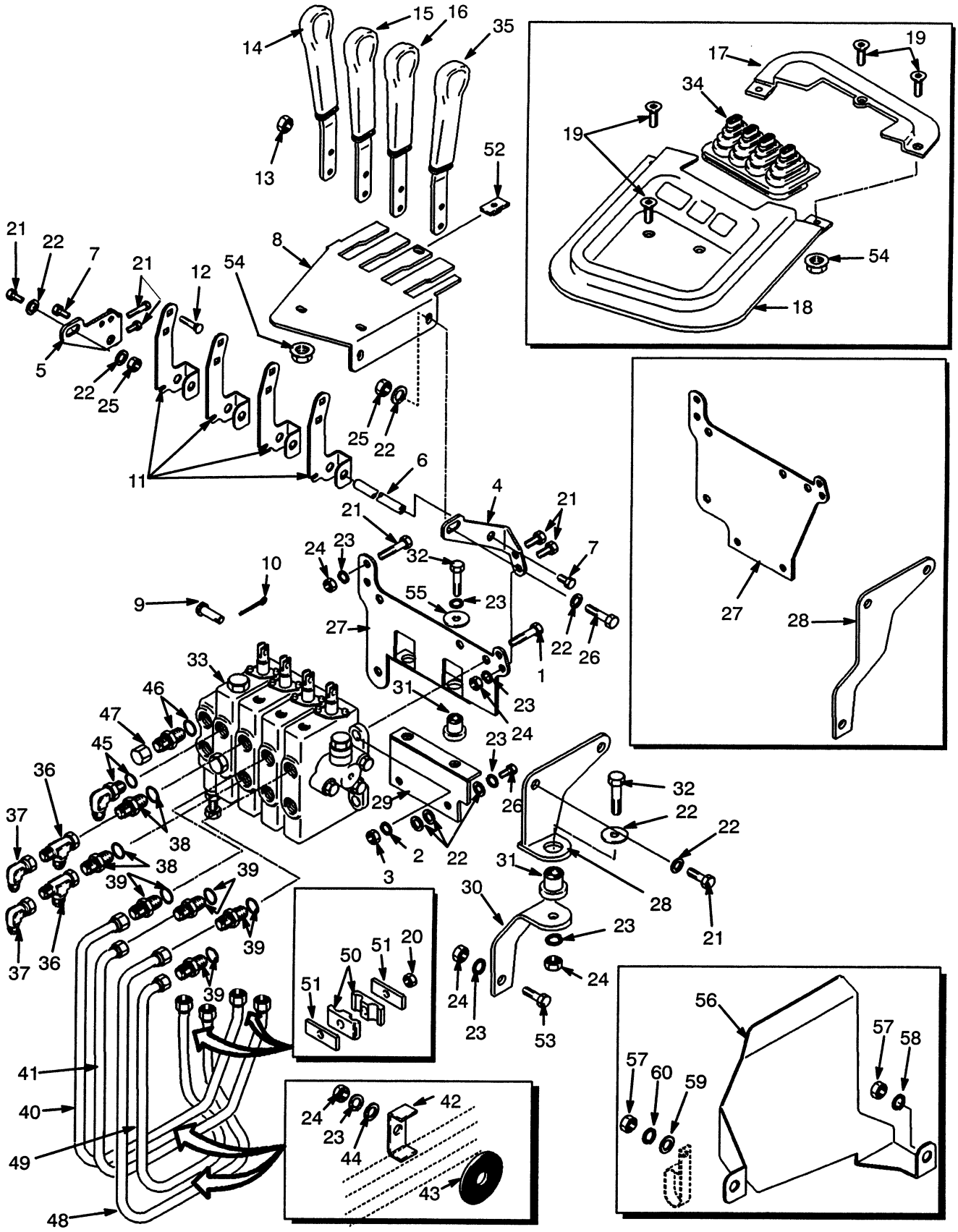
KEY:
A: Three Function
B: Four Function

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		287860	Capscrew	3	3
2		292682	Lockwasher	3	3
3		136692	Nut	3	3
4		1339723	Bracket, RH	1	1
5		1339724	Bracket, LH	1	1
6		1343443	Pivot	1	1
7		1328930	Capscrew	2	2
8		1339702	Panel	1	1
8	a	1361101	Panel	1	1
9		309109	Pin	3	4
10		15200	Cotter Pin	3	4
11		1339749	Crank	2	3
12		308980	Bolt	6	8
13		316834	Nut	6	8
14		1339725	Handlever (Lift)	1	1
15		1339727	Handlever (Tilt)	1	1
16		1339729	Handlever (3rd Function)	1	1
17		1338292	Cover	1	1
18		1339300	Cover	1	1
18	a	1361102	Cover	1	1
19		1339793	Screw	5	5
20		316835	Locknut	1	2
21		136749	Capscrew	8	8
21	b	136749	Capscrew	6	6
22		320158	Washer	8	8
22	b	221733	Washer	5	5
23		292681	Lockwasher	11	11
23	b	292681	Lockwasher	13	14
24		239503	Nut	9	9
24	b	239503	Nut	9	10
25		313828	Nut	4	4
26		176640	Capscrew	1	1
26	b	176640	Capscrew	3	3
27		1339737	Bracket	1	1
27	b	1351047	Bracket	1	1
28		1339715	Strut	1	1
28	b	1351048	Strut	1	1
29	b	1351049	Bracket	1	1
30	b	1351043	Plate	1	1
31	b	1351064	Mount	3	3
32	b	132861	Capscrew	4	4
33		....	Control Valve	1	1
			☞ Figure 187, Figure 188		
34		1339799	Boot	1	..
34		1339636	Boot	..	1
35		1339731	Handlever (4th Function)	..	1
36		17059	Fitting	2	2
37		16987	Fitting	2	2
38		222381	Fitting	2	2
38		16484	O-Ring	2	2
39		16541	Fitting	2	4
39		16484	O-Ring	2	4
40		1343461	Tube	1	1
41		1343481	Tube	1	1
42		1343531	Clamp	1	2
43		1347112	Washer (Rubber)	1	2
44		320157	Washer	2	4
45		17197	Fitting	1	1
45		16484	O-Ring	1	1
46		17756	Fitting	1	1
46		16485	O-Ring	1	1
47		16923	Fitting	1	1
48	d	1343482	Tube Assy	..	1
48	e	1379506	Tube Assy	..	1
49	d	1343484	Tube	..	1
49	e	1379507	Tube	..	1
50		1359620	Clamp	2	4
51		1361142	Plate	2	4
52		1339770	Crank	1	..
52		1339748	Crank	..	1
53		1339746	Plate	1	1
54		1339745	Plate	2	2
55		1339713	Spring	1	1
56		293612	Capscrew	2	2
57		293611	Capscrew	2	2
58		1350215	Nut	1	1
59		136681	Capscrew	1	1
59	b	136681	Capscrew	2	2
60		1452270	Nut	4	4
61	b	221733	Washer	3	3
62	c	1373819	Heat Shield	1	1
63		239503	Nut	2	2
64	c	320157	Washer	1	1
65		320158	Washer	2	2
66		292681	Lockwasher	1	1

a Used With Types GS, LPS & DS
b Used With Diesel 2.8L & 3.1L
c Gasoline & LPG 2.0L
d Last Used On S/N D177B-16576
e First Used On S/N D177B-16577

VALVE ATTACHING PARTS (Figure 186)

DIRECT ACTING LEVERS



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VALVE ATTACHING PARTS

DIRECT ACTING LEVERS

KEY:
A: Three Function
B: Four Function

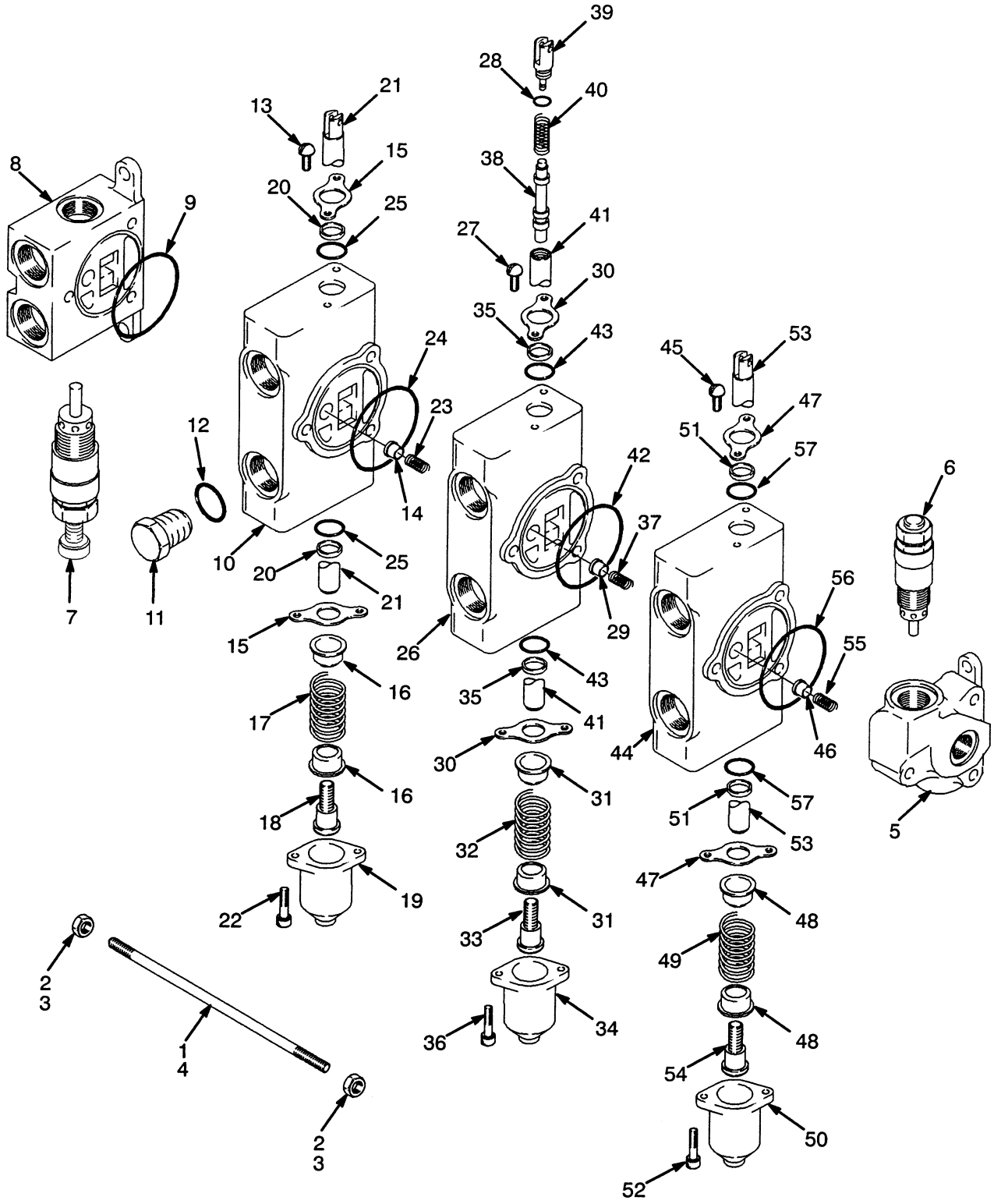
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		287860	Capscrew	3	3
2		292682	Lockwasher	3	3
3		136692	Nut	3	3
4		1339723	Bracket, RH	1	1
5		1339724	Bracket, LH	1	1
6		1343443	Pivot	1	1
7		1328930	Capscrew	2	2
8		1339702	Panel	1	1
8	a	1361101	Panel	1	1
9		309109	Pin	3	4
10		15200	Cotter Pin	3	4
11		1339749	Crank	3	4
12		308980	Bolt	6	8
13		316834	Nut	6	8
14		1339725	Handlever (Lift)	1	1
15		1339727	Handlever (Tilt)	1	1
16		1339729	Handlever (3rd Function)	1	1
17		1338292	Cover	1	1
18		1339300	Cover	1	1
18	a	1361102	Cover	1	1
19		1339793	Screw	5	5
20		316835	Locknut	1	2
21		136749	Capscrew	8	8
21	b	136749	Capscrew	6	6
22		320158	Washer	8	8
22	b	221733	Washer	5	5
23		292681	Lockwasher	9	11
23	b	292681	Lockwasher	13	14
24		239503	Nut	7	9
24	b	239503	Nut	9	10
25		313828	Nut	3	3
26		176640	Capscrew	1	1
26	b	176640	Capscrew	3	3
27		1339737	Bracket	1	1
27	b	1351047	Bracket	1	1
28		1339715	Strut	1	1
28	b	1351048	Strut	1	1
29	b	1351049	Bracket	1	1
30	b	1351043	Plate	1	1
31	b	1351064	Mount	3	3
32	b	132861	Capscrew	3	3
33		....	Control Valve ☞ Figure 187, Figure 188	1	1
34		1339799	Boot	1	..
34		1339636	Boot	..	1
35		1339731	Handlever (4th Function)	..	1
36		17059	Fitting	2	2
37		16987	Fitting	2	2
38		222381	Fitting	2	2
38		16484	O-Ring	2	2
39		16541	Fitting	2	4
39		16484	O-Ring	2	4
40		1343461	Tube	1	1
41		1343481	Tube	1	1
42		1343531	Clamp	1	2
43		1347112	Washer (Rubber)	1	2
44		320157	Washer	2	4
45		17197	Fitting	1	1
45		16484	O-Ring	1	1
46		17756	Fitting	1	1
46		16485	O-Ring	1	1
47		16923	Fitting	1	1
48	d	1343482	Tube Assy	..	1
48	e	1379506	Tube Assy	..	1
49	d	1343484	Tube	..	1
49	e	1379507	Tube	..	1
50		1359620	Clamp	2	4
51		1361142	Plate	2	4
52		1350215	Nut	1	1
53		136681	Capscrew	1	1
53	b	136681	Capscrew	2	2
54		1452270	Nut	4	4
55	b	221733	Washer	3	3
56	c	1373819	Heat Shield	1	1
57		239503	Nut	2	2
58	c	320157	Washer	1	1
59		320158	Washer	2	2
60		292681	Lockwasher	1	1

a Used With Types GS, LPS & DS
b Used With Diesel 2.8L & 3.1L
c Gasoline & LPG 2.0L
d Last Used On S/N D177B-15153
e First Used On S/N D177B-15154

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CONTROL VALVE (Figure 187)

THREE FUNCTION



CONTROL VALVE

THREE FUNCTION

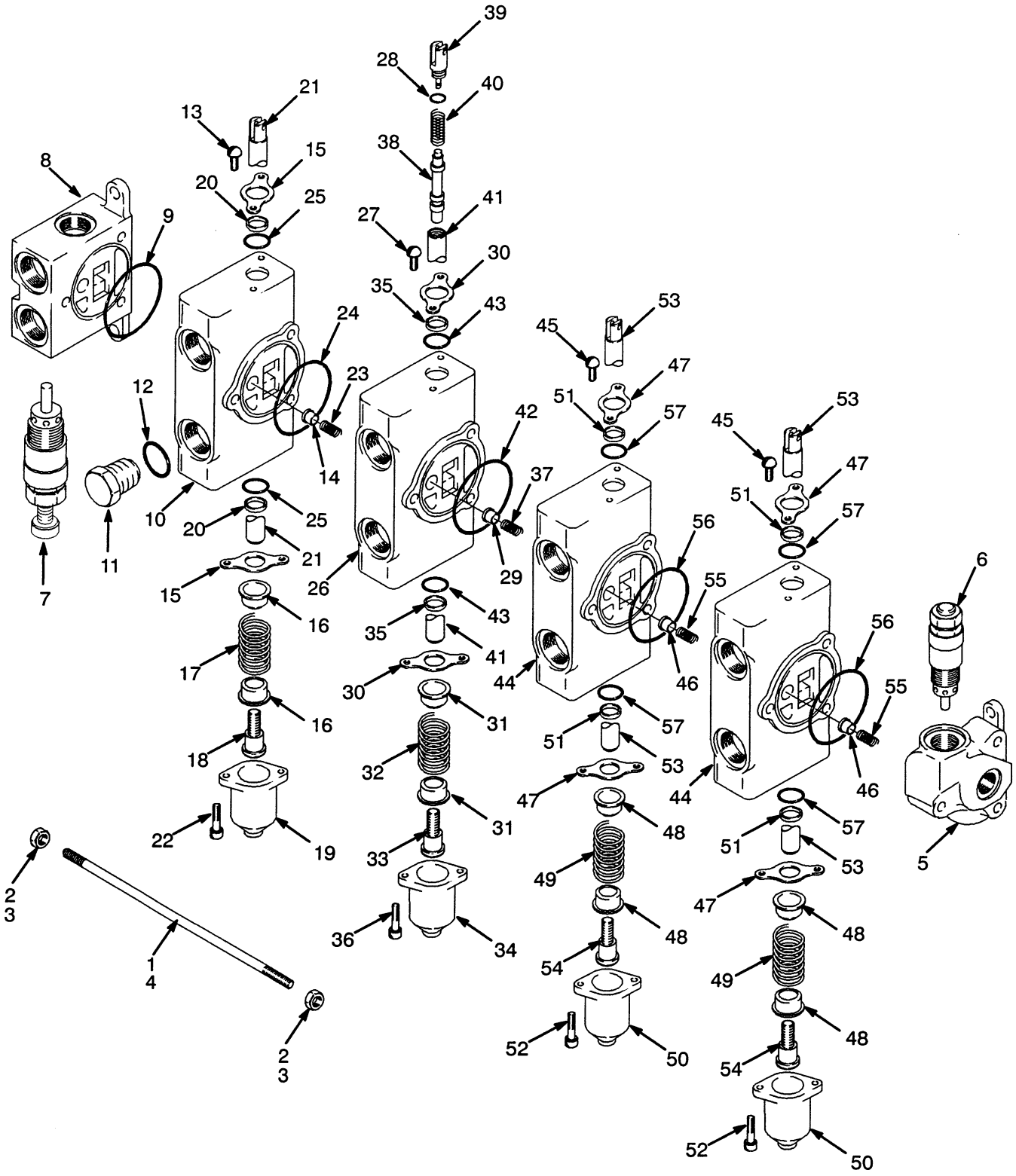
REF	PART NO.	NAME OF PART	QTY
a	1337104	Control Valve	1
b	2033502	Control Valve	1
1	1350707	Rod	1
2	188534	Nut	2
3	15055	Nut	4
4	1350706	Rod	2
5a	1357356	Outlet Section	1
5b	1451092	Outlet Section	1
6	378424	Relief Valve	1
6	1309419	Kit-Seal	1
7	350485	Relief Valve	1
7	1357369	Kit-Seal	1
8	1357352	Inlet Section	1
9	57664	O-Ring	1
10	1357354	Spool Section	1
11	199524	Plug	1
12	16484	O-Ring	1
13	16706	Screw	2
14	205120	Poppet	1
15	205121	Seal Plate	2
16	188516	Spring Seat	2
17	385855	Spring	1
18	188518	Spool End	1
19	188519	Cap	1
20	205122	Wiper	2
21	....	Spool	1
22	12949	Capscrew	2
23	205123	Spring	1
24	57664	O-Ring	1
25	1357361	O-Ring	2
26	1357355	Spool Section	1
27	16706	Screw	2
28	16480	O-Ring	1
29	205120	Poppet	1
30	205121	Seal Plate	2
31	188516	Spring Seat	1
32	385855	Spring	1
33	188518	Spool End	1
34	188519	Cap	1
35	205122	Wiper	2
36	12949	Capscrew	2
37	205123	Spring	1
38	....	Piston	1
39	1357364	Piston End	1
40	341462	Spring	1
41	....	Spool	1
42	57664	O-Ring	1
43	1357361	O-Ring	2
44	1357353	Spool Section	1
45	16706	Screw	2
46	205120	Poppet	1
47	205121	Seal Plate	2
48	188516	Spring Seat	2
49	385855	Spring	1
50	188519	Cap	1
51	205122	Wiper	2
52	12949	Capscrew	2
53	....	Spool	1
54	188518	Spool End	1
55	205123	Spring	1
56	57664	O-Ring	1
57	1357361	O-Ring	2

a Last Used On S/N D177B-35722
b First Used On S/N D177B-35723

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VALVE (Figure 188)

FOUR FUNCTION



VALVE

FOUR FUNCTION

REF		PART NO.	NAME OF PART	QTY
	a	1338333	Control Valve	1
	b	2033503	Control Valve	1
1		1327415	Rod	1
2		188534	Nut	2
3		15055	Nut	4
4		1327414	Rod	2
5	a	1357356	Outlet Section	1
5	b	1451092	Outlet Section	1
6		378424	Relief Valve	1
6		1309419	Kit-Seal	1
7		350485	Relief Valve	1
7		1357369	Kit-Seal	1
8		1357352	Inlet Section	1
9		57664	O-Ring	1
10		1357354	Spool Section	1
11		199524	Plug	1
12		16484	O-Ring	1
13		16706	Screw	2
14		205120	Poppet	1
15		205121	Seal Plate	2
16		188516	Spring Seat	2
17		385855	Spring	1
18		188518	Spool End	1
19		188519	Cap	1
20		205122	Wiper	2
21		....	Spool	1
22		12949	Capscrew	2
23		205123	Spring	1
24		57664	O-Ring	1
25		1357361	O-Ring	2
26		1357355	Spool Section	1
27		16706	Screw	2
28		16480	O-Ring	1
29		205120	Poppet	1
30		205121	Seal Plate	2
31		188516	Spring Seat	1
32		385855	Spring	1
33		188518	Spool End	1
34		188519	Cap	1
35		205122	Wiper	2
36		12949	Capscrew	2
37		205123	Spring	1
38		....	Piston	1
39		1357364	Piston End	1
40		341462	Spring	1
41		....	Spool	1
42		57664	O-Ring	1
43		1357361	O-Ring	2
44		1357353	Spool Section	2
45		16706	Screw	2
46		205120	Poppet	1
47		205121	Seal Plate	2
48		188516	Spring Seat	2
49		385855	Spring	1
50		188519	Cap	1
51		205122	Wiper	2
52		12949	Capscrew	2
53		....	Spool	1
54		188518	Spool End	1
55		205123	Spring	1
56		57664	O-Ring	1
57		1357361	O-Ring	2

a Last Used On S/N D177B-35560
b First Used On S/N D177B-35561

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NOTES

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TWO STAGE LIMITED FREE-LIFT

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FOUR ROLLER ..... Page 358

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CYLINDER (Figure 192)
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CYLINDER (Figure 193)
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FORKS (Figure 200)
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HEADER HOSE (Figure 199)
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LOAD BACKREST EXTENSION (Figure 196)
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MAST INSTALLATION (Figure 197)
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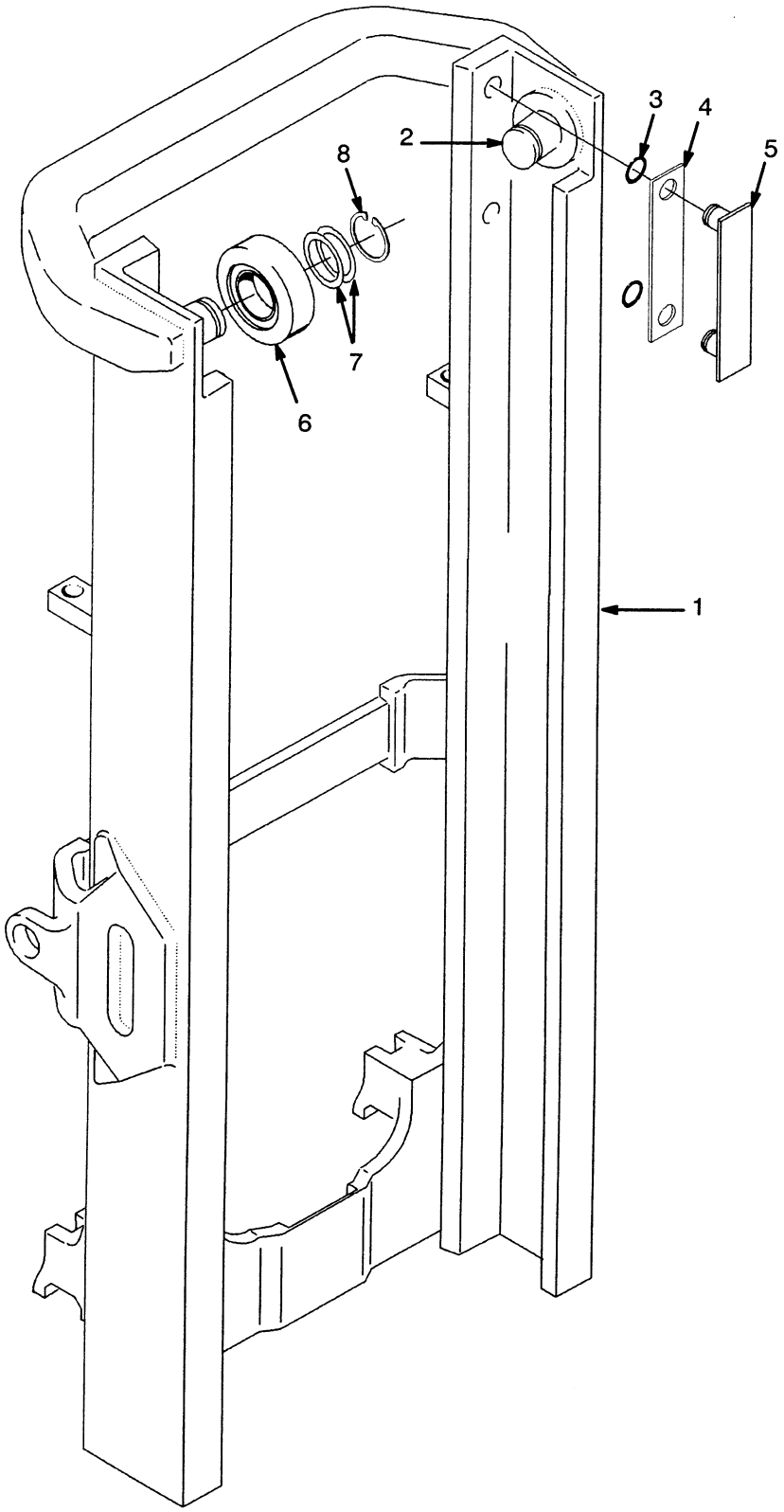
MAST INSTALLATION (Figure 198)
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OUTER MAST (Figure 189)
TWO STAGE LIMITED FREE-LIFT ..... Page 348

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OUTER MAST (Figure 189)

TWO STAGE LIMITED FREE-LIFT



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OUTER MAST

TWO STAGE LFL

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		117.8 in	129.6 in	149.3 in	169.0 in	188.7 in
	Mast Group No.	**B507 2992**	**B507 3292**	**B507 3792**	**B507 4292**	**B507 4792**
1	Outer Mast	1341005	1341008	1341013	1341019	1341024

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		112.6 in	124.4 in	144.1 in	163.7 in	183.4 in
	Mast Group No.	**B562 2859**	**B562 3159**	**B562 3659**	**B562 4159**	**B562 4659**
1	Outer Mast	1341005	1341008	1341013	1341019	1341024

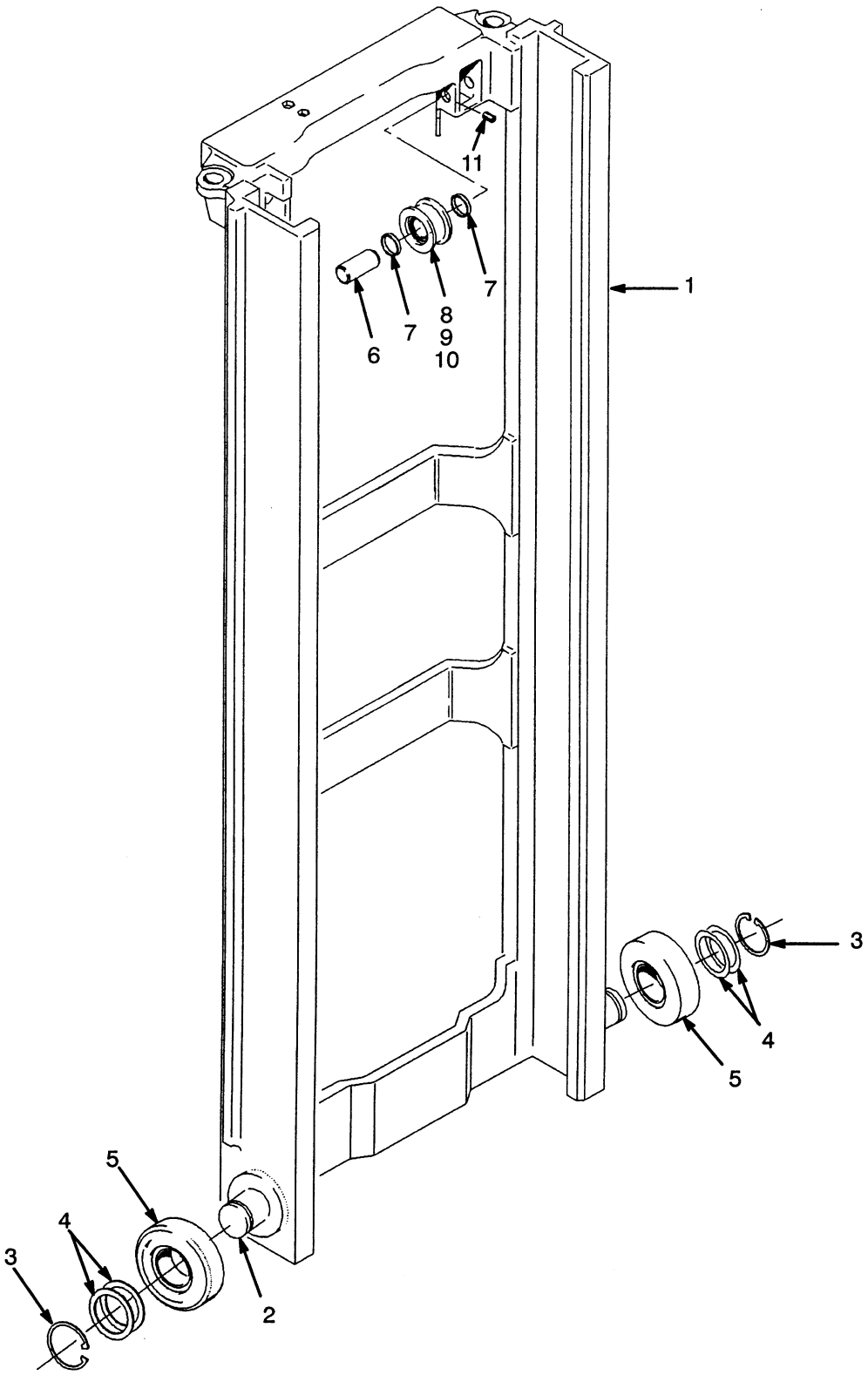
REF	PART NO.	NAME OF PART	QTY
a	.....	Mast	1
1 a	.....	Outer Mast	1
2	1345216	Stub Shaft	2
3	104506	O-Ring	4
4	131716	Shim (0.020 in)	4
5	215211	Bearing Strip	2
6	1395168	Load Roller ("A" Standard)	2
6	1333396	Load Roller ("B" 0.76 mm)	2
6	1333397	Load Roller ("C" 1.52 mm)	2
7	129387	Shim (0.020 in)	AR
8	58901	Snap Ring	2

a ☞ Table Above

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INNER MAST (Figure 190)

TWO STAGE LIMITED FREE-LIFT



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INNER MAST

TWO STAGE LIMITED FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		117.8 in	129.6 in	149.3 in	169.0 in	188.7 in
	Mast Group No.	**B507 2992**	**B507 3292**	**B507 3792**	**B507 4292**	**B507 4792**
1	Inner Mast	1341210	1341213	1341218	1341223	1341228

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		112.6 in	124.4 in	144.1 in	163.7 in	183.4 in
	Mast Group No.	**B562 2859**	**B562 3159**	**B562 3659**	**B562 4159**	**B562 4659**
1	Inner Mast	1341210	1341213	1341218	1341223	1341228

REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
1	a	.....	Inner Mast	1
2		1345216	Stub Shaft	2
3		58901	Snap Ring	2
4		129387	Shim (0.020 In)	AR
5		1395168	Load Roller ("A" Standard)	2
5		1333396	Load Roller ("B" 0.76 mm)	2
5		1333397	Load Roller ("C" 1.52 mm)	2
6	b	1333389	Pin	2
6	c	1368656	Pin	2
7	d	1333644	Spacer	4
7	e	1378691	Spacer	4
8	d	1345183	Chain Sheave	2
8		1345181	Sheave	1
8		37752	Snap Ring	2
8		231020	Bearing	1
9	e	1379685	Chain Sheave (H45-55XM)	2
9		1378698	Sheave	1
9		37752	Snap Ring	1
9		1378699	Bearing	1
10	e	1379684	Chain Sheave (H60-65XM)	2
10		1378694	Sheave	1
10		37752	Snap Ring	1
10		1378699	Bearing	1
11	b	302144	Setscrew	4
11	c	302462	Pin	2

a ☞ Tables Above

b Last Used On Mast S/N B507B-5469 & B562B-5469

c First Used On Mast S/N B507B-5470, B507V-1501, B562B-5470 & B562V-1511

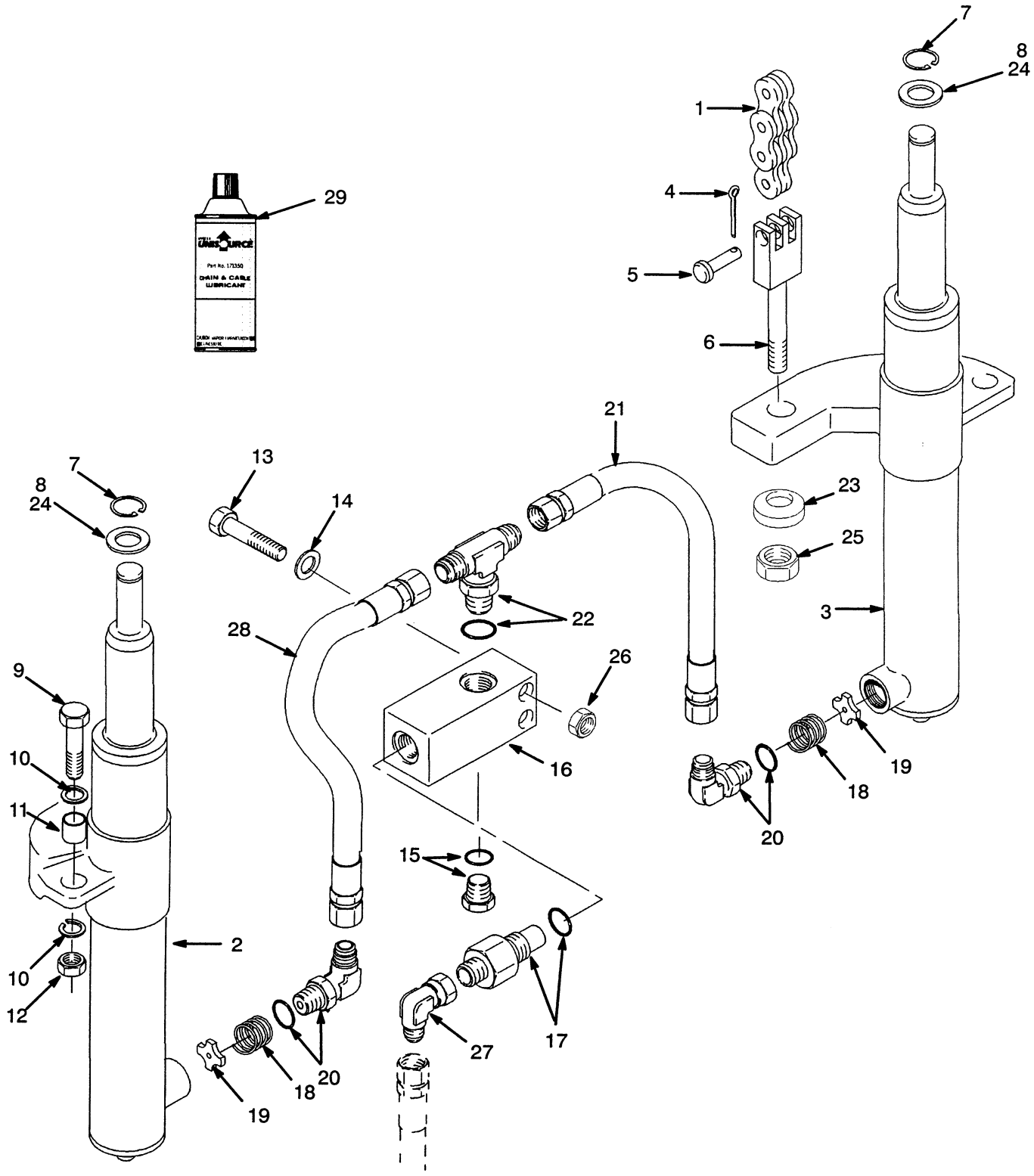
d Last Used On S/N B507A-1920, B507B-7408 & B562V-1565, B562B-5197

e First Used On S/N B507A-1921, B507B-7409 & B562V-1566, B562B-5198

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LIFT (Figure 191)

TWO STAGE LIMITED FREE-LIFT



LIFT

TWO STAGE LFL

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		117.8 in	129.6 in	149.3 in	169.0 in	188.7 in
	Mast Group No.	**B507 2992**	**B507 3292**	**B507 3792**	**B507 4292**	**B507 4792**
1	Lift Chain	180057	337174[c] 223389[d]	135588[c] 1301870[d]	214444[c] 246994[d]	129358[c] 336393[d]

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		112.6 in	124.4 in	144.1 in	163.7 in	183.4 in
	Mast Group No.	**B562 2859**	**B562 3159**	**B562 3659**	**B562 4159**	**B562 4659**
1	Lift Chain	1342121	1342124[c] 1342383[d]	1342129[c] 1342393[d]	1342134[c] 1359234[d]	1342139[c] 1342392[d]

REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
1	a	.....	Lift Chain	2
2		.....	Cylinder, RH	1
			☞ Figure 192, Figure 193	
3		.....	Cylinder, LH	1
			☞ Figure 192, Figure 193	
4		15200	Cotter Pin	2
5		323161	Pin	2
6	bc	320313	Chain Anchor	2
6	bd	1369357	Chain Anchor	2
6	ec	1333328	Chain Anchor	2
6	ed	1369356	Chain Anchor	2
7		131358	Snap Ring	2
8		1333382	Washer	AR
9		292532	Capscrew	2
10		296422	Lockwasher	4
11		323090	Spacer	2
12		300937	Nut	2
13		136704	Capscrew	2
14		320157	Washer	2
15	g	14603	Fitting	1
15		16486	O-Ring	1
16		1379687	Valve Housing	1
16	g	1333392	Valve Housing	1
17	h	2309766	Lowering Control Valve	1
17	k	316306	Lowering Control Valve	1
17		16982	O-Ring	1
18		337179	Spring	2
19		357749	Special Washer	2
20		189595	Fitting	2
20		16485	O-Ring	1
21		1345403	Hose	1
22		16578	Fitting	1
22		16485	O-Ring	1
23		297649	Base Ring	2
24	f	1354915	Washer (0.25 mm)	AR
24	f	1354916	Washer (0.75 mm)	AR
24	f	1354917	Washer (1.50 mm)	AR
25		161003	Nut	2
26		313828	Nut	2
27		16882	Fitting	1
28		1462551	Hose	1
29		171350	Chain Lubricant	AR

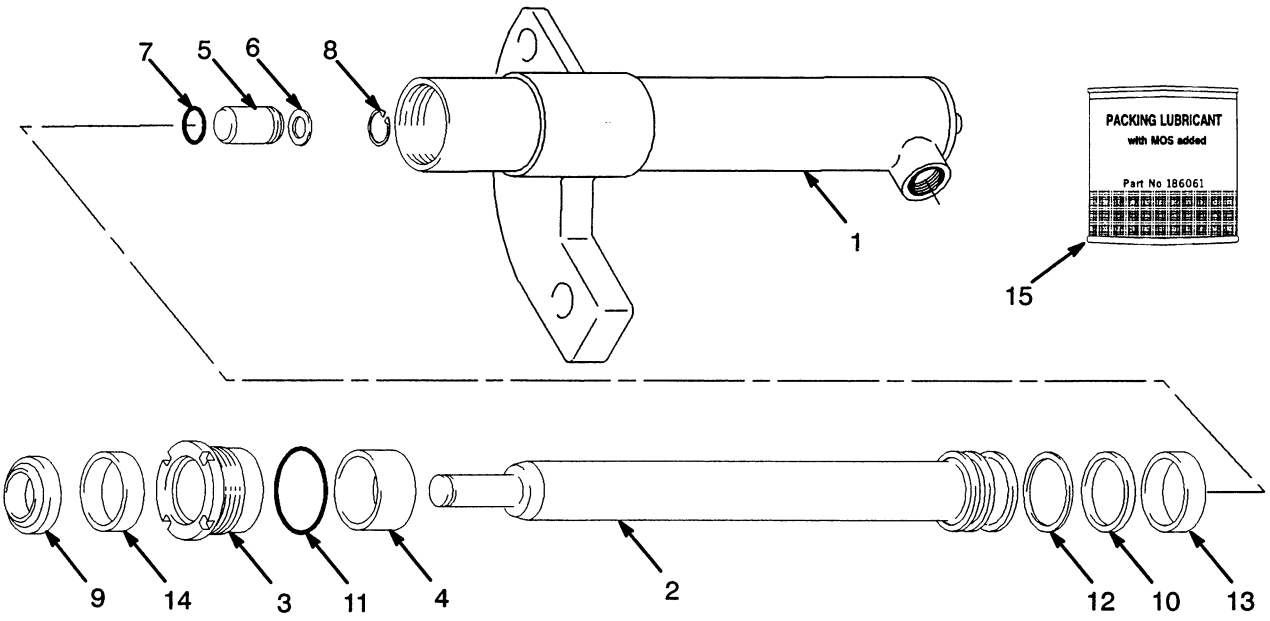
a ☞ Table Above
b For Mast S/N B507
c Last Used On Mast S/N B507B-5469 & B562B-5469
d First Used On Mast S/N B507B-5470, B507V-1501, B562B-5470 & B562V-1511
e For Mast S/N B562
f Used With Item 8 Between Cylinder Rod And Inner Mast As Required
g Optional
h H45-55 XM
k H60-65 XM

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CYLINDER (Figure 192)

TWO STAGE LIMITED FREE-LIFT

H45-55XM



CYLINDER

TWO STAGE LIMITED FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		117.8 in	129.6 in	149.3 in	169.0 in	188.7 in
	Mast Group No.	**B507 2992**	**B507 3292**	**B507 3792**	**B507 4292**	**B507 4792**
	Group # Cylinder RH	8600056 1341395	8600059 1341398	8600064 1341403	8600070 1341408	8600151 1341413
1	Shell	1355148	1355160	1355180	1355200	1355222
2	Rod	1355146	1355158	1355178	1355199	1355217
	Group # Cylinder LH	8600006 1341432	8600009 1341435	8600014 1341440	8600020 1341445	8600101 1341450
1	Shell	1355145	1355157	1355177	1355198	1355219
2	Rod	1355146	1355158	1355178	1355199	1355217

REF		PART NO.	NAME OF PART	QTY
	a	.....	Cylinder	1
1	a	.....	Shell	1
2	a	.....	Rod	1
3	b	1355127	Retainer	1
3	c	1355220	Retainer	1
4	d	1355189	Spacer	1
4	c	1355221	Spacer	1
5		257913	Check Valve	1
6		297531	Washer	1
7	ef	39348	O-Ring	1
8		187388	Snap Ring	1
9	be	1319668	Wiper	1
9	cf	1310370	Wiper	1
10	ef	2013075	Seal	1
11	ef	92861	O-Ring	1
12	ef	638246	Back-Up Ring	1
13	ef	1356750	Wear Ring	1
14	be	1356749	Rod Seal	1
14	cf	1356752	Rod Seal	1
15		186061	Packing Lubricant	AR

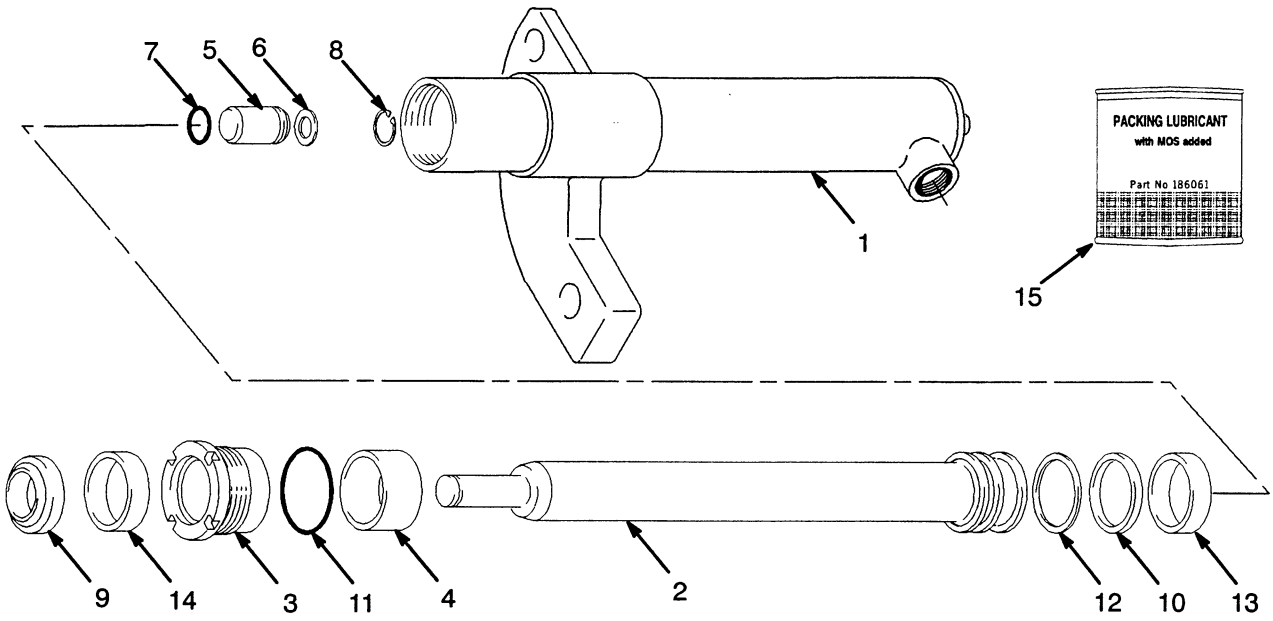
a ☞ Table Above
b For Lift Heights Below 188.7 in
c For 188.7 in Lift Height
d For 169.0 Lift Height
e Included In Seal Kit 1355276
f Included In Seal Kit 1355277

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CYLINDER (Figure 193)

TWO STAGE LIMITED FREE-LIFT

H60-65XM



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CYLINDER
TWO STAGE LFL
H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		112.6 in	124.4 in	144.1 in	163.7 in	183.4 in
	Mast Group No.	**B562 2859**	**B562 3159**	**B562 3659**	**B562 4159**	**B562 4659**
	Group # Cylinder RH	8600256 1341469	8600259 1341472	8600264 1341477	8600352 1341482	8600357 1341487
1	Shell	1355357	1355369	1355393	1355416	1355436
2	Rod	1355355	1355367	1355391	1355414	1355434
	Group # Cylinder LH	8600206 1341506	8600209 1341509	8600214 1341514	8600302 1341519	8600307 1341524
1	Shell	1355354	1355366	1355390	1355413	1355433
2	Rod	1355355	1355367	1355391	1355414	1355434

REF		PART NO.	NAME OF PART	QTY
	a	.....	Cylinder	1
1	a	.....	Shell	1
2	a	.....	Rod	1
3	b	1355284	Retainer	1
3	c	1355409	Retainer	1
4	b	1355285	Spacer	1
4	c	1355410	Spacer	1
5		257913	Check Valve	1
6		297531	Washer	1
7	de	39348	O-Ring	1
8		187388	Snap Ring	1
9	bd	1319668	Wiper	1
9	ce	1310370	Wiper	1

REF		PART NO.	NAME OF PART	QTY
10	de	334156	Seal	1
11	de	59229	O-Ring	1
12	de	335012	Back-Up Ring	1
13	de	1356751	Wear Ring	1
14	bd	1356749	Rod Seal	1
14	ce	1356752	Rod Seal	1
15		186061	Packing Lubricant	AR

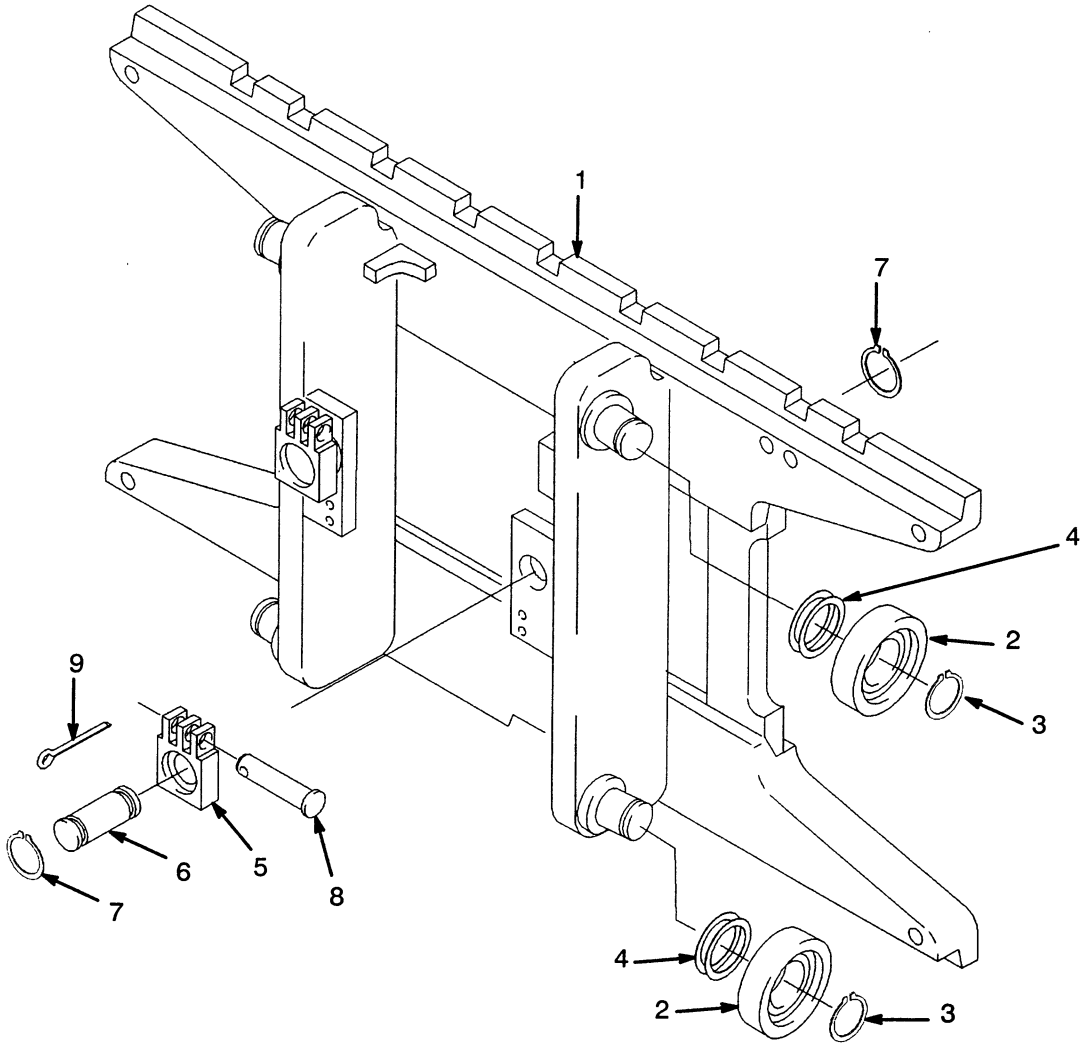
a ☞ Table Above
b For Lift Heights To 144.1 in
c For Lift Heights 163.7 in. And 183.4 In.
d Included In Seal Kit 1355286
e Included In Seal Kit 1355411

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CARRIAGE (Figure 194)

TWO STAGE LIMITED FREE-LIFT

FOUR ROLLER



	H45-55XM	H60-65XM
Group No.	8500007	8500008
Carriage	1343838	1343841

KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	.....	Carriage Assy	1	..
	a	.....	Carriage Assy	..	1
1		1337940	Carriage	1	..
1		1337943	Carriage	..	1
1		1345264	Stubshaft	4	4
2	b	1345218	Load Roller	6	6
2		1345219	Load Roller ("B" 0.76 mm) ..	4	4
2		1345220	Load Roller ("C" 1.52 mm) ..	4	4
3		12891	Snap Ring	4	4
4		1345263	Shim	AR	AR
5		1369345	Chain Anchor	2	..
5		1369344	Chain Anchor	..	2
6		1345352	Pin	2	2
7		131358	Snap Ring	4	4
8		323161	Pin	2	2
9		15200	Cotter Pin	2	2

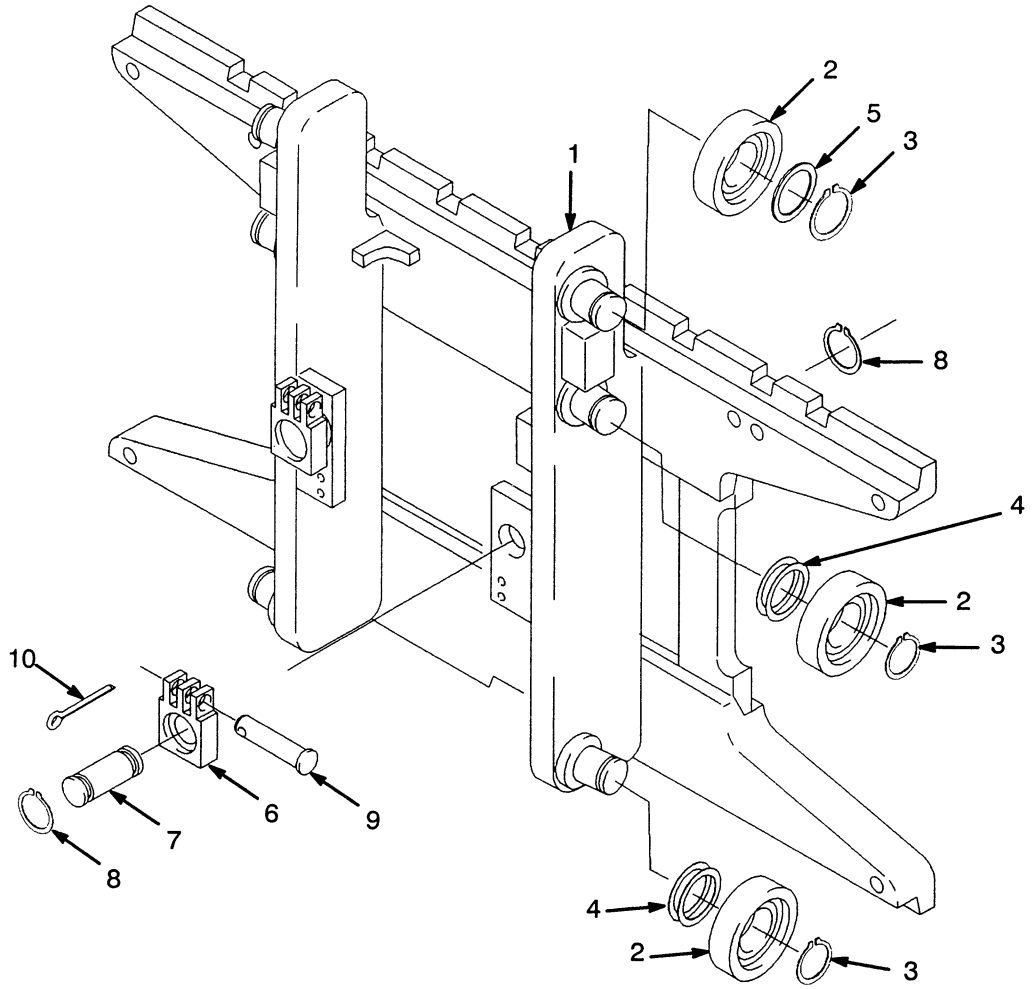
a ☞ Table Above

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CARRIAGE (Figure 195)

TWO STAGE LIMITED FREE-LIFT

SIX ROLLER



	H45-55XM	H60-65XM
Group No.	8500013	8500014
Carriage	1343846	1343847

KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	.....	Carriage Assy	1	..
	a	....	Carriage Assy	..	1
1		1338616	Carriage	1	..
1		1338618	Carriage	..	1
1		1345264	Stubshaft	6	6
2	b	1345218	Load Roller	6	6
2	c	1395172	Load Roller ("A" Standard) ..	6	6
2		1345219	Load Roller ("B" 0.76 mm) ..	6	6
2		1345220	Load Roller ("C" 1.52 mm) ..	6	6
3		12891	Snap Ring	6	6
4		1345263	Shim	ARAR	
5		366116	Spacer	2	2
6		1369345	Chain Anchor	2	..
6		1369344	Chain Anchor	..	2
7		1345352	Pin	2	2
8		131358	Snap Ring	4	4
9		323161	Pin	2	2
10		15200	Cotter Pin	2	2

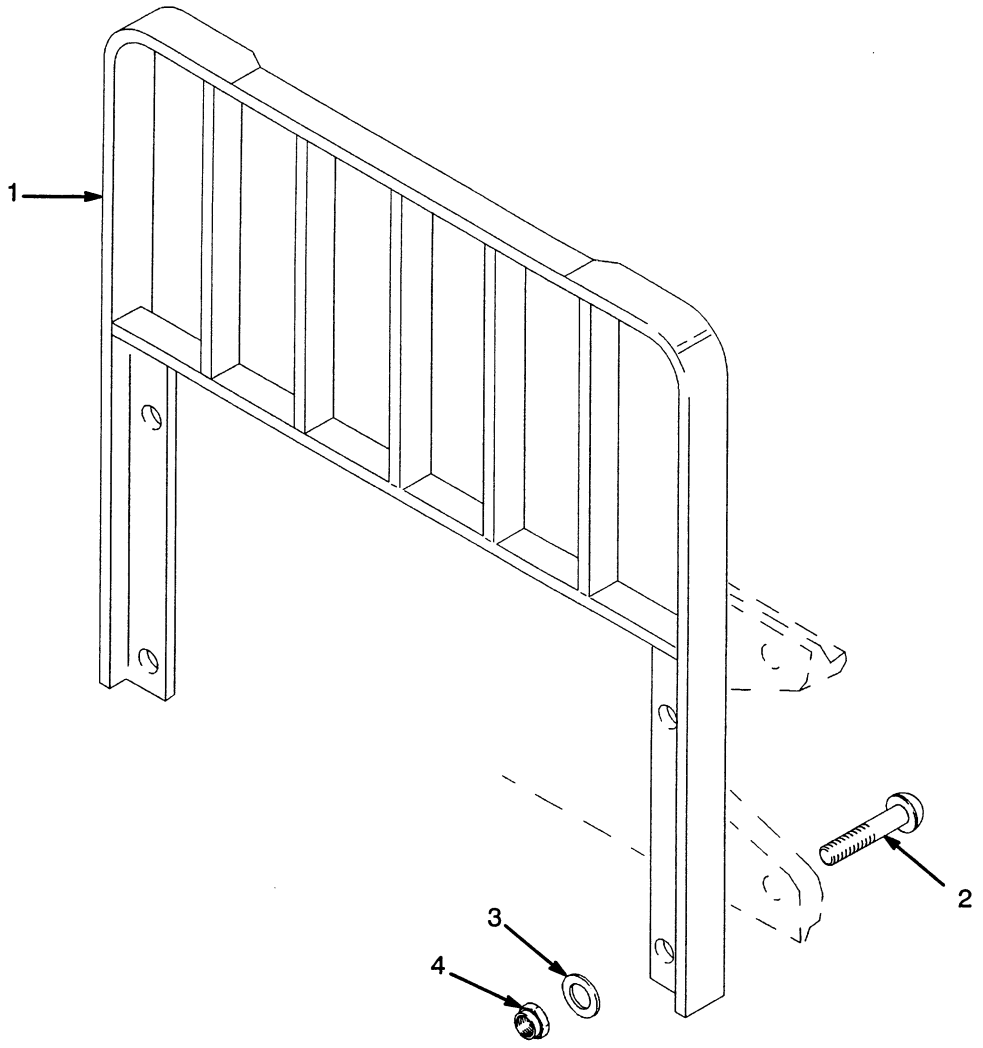
a ☞ Table Above
b Last Used On S/N Pending ECN 72449
c First Used On S/N Pending ECN 72449 Above

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See Service Manual for service procedures

LOAD BACKREST EXTENSION (Figure 196)

TWO STAGE LIMITED FREE-LIFT



KEY:
A: H45-55XM
B: H60-65XM

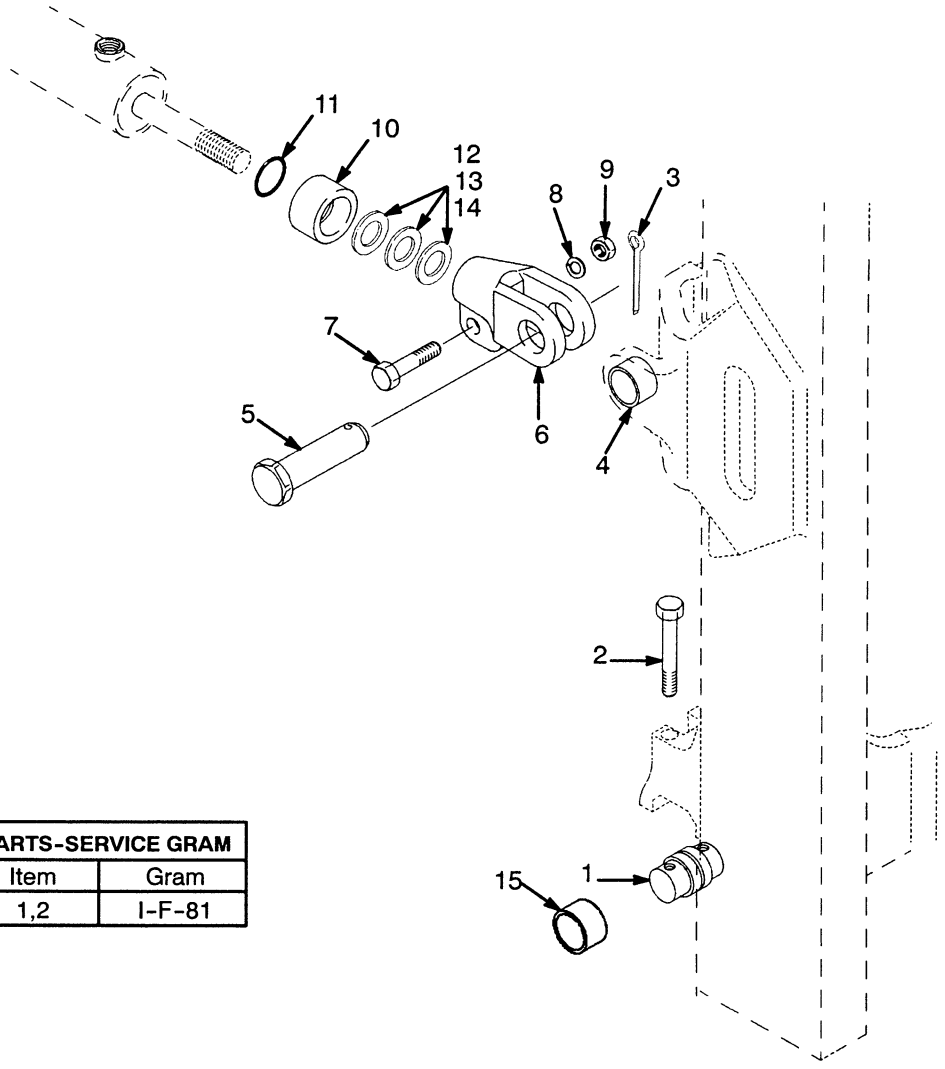
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1338642	Load Backrest Extension	1	..
1		1338645	Load Backrest Extension	..	1
1	a	1345267	Load Backrest Extension	..	1
2		1343990	Capscrew	4	..
2		1354923	Capscrew	..	4
3		221771	Washer	4	4
3	b	296423	Washer	4	4
4		300937	Nut	4	4

a For Polished Forks With Full Bottom Taper
b Optional

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MAST INSTALLATION (Figure 197)

TWO STAGE LIMITED FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1,2	I-F-81

KEY:
A: 6° Forward Tilt/10° Back Tilt
B: 6° Forward Tilt/6° Back Tilt
C: 6° Forward Tilt/5° Back Tilt

REF		PART NO.	NAME OF PART	QTY A	B	C
1	a	1333386	Pin	2	2	2
1	b	1376424	Pin	2	2	2
2	a	293659	Capscrew	4	4	4
2	b	1376423	Capscrew	4	4	4
3		15236	Cotter Pin	2	2	2
4		300982	Bushing	2	2	2
5		1345354	Pin	2	2	2
6		1307641	Rod End	2	2	2
7		293650	Capscrew	2	2	2
8		292683	Lockwasher	2	2	2
9		216877	Nut	2	2	2

REF	PART NO.	NAME OF PART	QTY A	B	C
10	1451788	Spacer	..	2	..
10	384101	Spacer	..	..	2
11	55434	O-Ring	..	2	..
12	134675	Shim	..	AR	AR
13	1325119	Shim	..	AR	AR
14	1361948	Shim	..	..	AR
15	1333385	Bushing	2	2	2
15	1380115	Bushing (Optional)	2	2	2

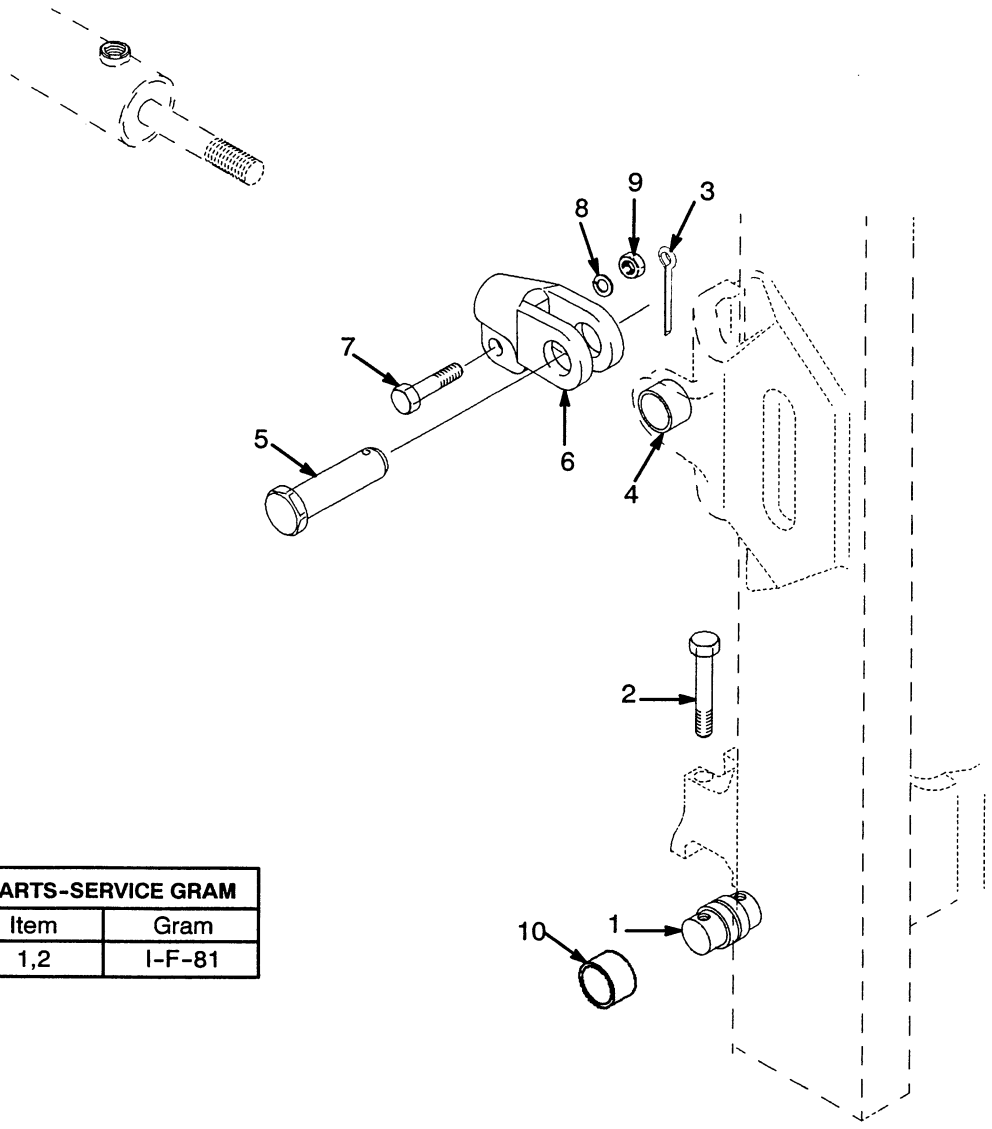
a First Used On S/N D177B-19806
b Last Used On S/N D177B-19807

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See Service Manual for service procedures

MAST INSTALLATION (Figure 198)

TWO STAGE LIMITED FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1,2	I-F-81

KEY:
10° Forward Tilt/6° Back Tilt

REF		PART NO.	NAME OF PART	QTY
1	a	1333386	Pin	2
1	b	1376424	Pin	2
2	a	293659	Capscrew	4
2	b	1376423	Capscrew	4
3		15236	Cotter Pin	2
4		300982	Bushing	2
5		1345354	Pin	2
6		1356318	Rod End.	2
7		293650	Capscrew	2
8		292683	Lockwasher	2
9		216877	Nut	2
10		1333385	Bushing	2
10		1380115	Bushing (Optional)	2

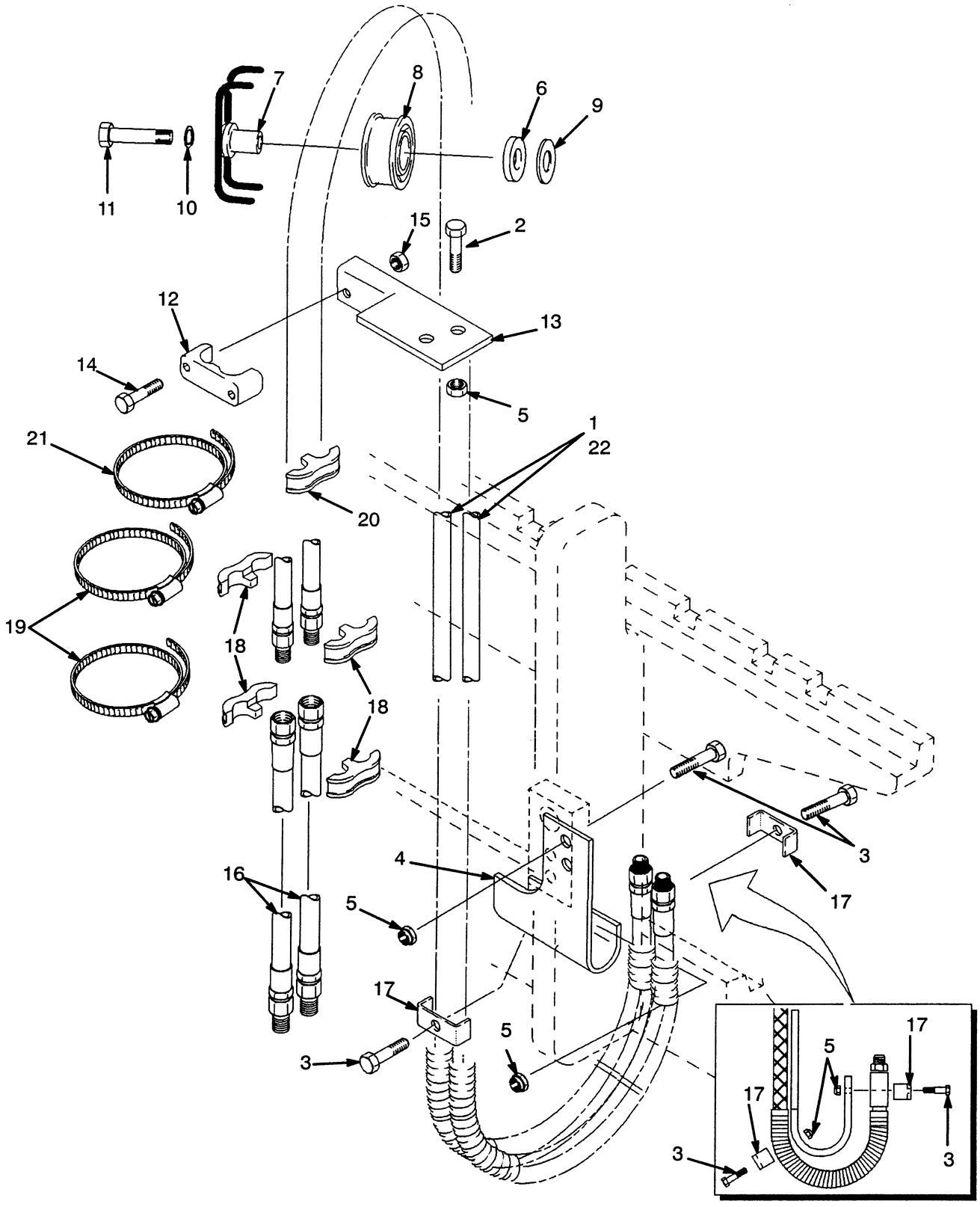
a First Used On S/N D177B-19806
b Last Used On S/N D177B-19807

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NOTES

HEADER HOSE (Figure 199)

TWO STAGE LIMITED FREE-LIFT



HEADER HOSE

TWO STAGE LIMITED FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		117.8 in	129.6 in	149.3 in)	169.0 in	188.7 in
	Mast Group No.	**B507 2992**	**B507 3292**	**B507 3792**	**B507 4292**	**B507 4792**
1	Hose	[a]1345496 [b]1368313	[a]1345499 [b]1369606	[a]1369604 [b]1369611	[a]1369609 [b]1345516	[a] 1369613 [b]1369617
20	Clamp	----	----	1353530	1353530	1353530
21	Clamp	----	----	1360507	1360507	1360507

[a] Last Used On S/N B507V-3171
[b] First Used On S/N B507V-3172

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks				
		112.6 in	124.4 in	144.1 in	163.7 in	183.4 in
	Mast Group No.	**B562 2859**	**B562 3159**	**B562 3659**	**B562 4159**	**B562 4659**
1	Hose	[a]1345496 [b]1368313	[a]1345499 [b]1369606	[a]1369604 [b]1369611	[a]1369609 [b]1345516	[a] 1369613 [b]1369617
20	Clamp	----	----	1353530	1353530	1353530
21	Clamp	----	----	1360507	1360507	1360507
22	Hose	[b]1398493	1368314	1398512	1398645	1398541

[a] Last Used On S/N B562V-2417
[b] First Used On S/N B562V-2418

KEY:
A: Three Function
B: Four Function

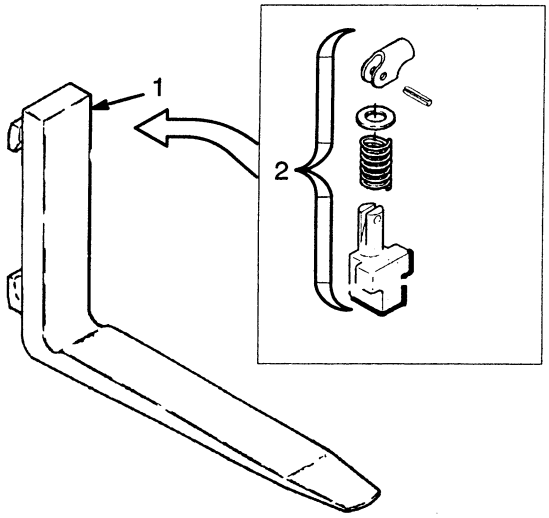
REF		PART NO.	NAME OF PART	QTY A	QTY B
1	[a]	....	Hose	2	2
2		136704	Capscrew	2	4
3		292508	Capscrew	4	8
4		1345412	Bracket, RH	1	1
4		1345413	Bracket, LH	..	1
5		313828	Nut	6	12
6		1360549	Spacer	1	2
7		1360548	Stubshaft	1	2
8		1381595	Sheave	1	2
9		1345190	Special Washer	1	2
10		292683	Washer	1	2
11		292533	Capscrew	1	2
12		1360386	Clamp	1	2
13		1354919	Bracket, RH	1	1
13		1354921	Bracket, LH	..	1
14		292502	Capscrew	2	4
15		313805	Nut	2	4
16		1354922	Hose, RH	2	2
16		1354904	Hose, LH	..	2
17		1345348	Clamp	2	4
18		1353530	Clamp	4	8
19		1360507	Clamp	2	4
20	[a]	....	Clamp	1	2
21	[a]	....	Clamp	1	2
22	[a]	....	Hose	..	2

[a] ☞ Table Above

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FORKS (Figure 200)

TWO STAGE LIMITED FREE-LIFT



H45-55XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
	Fork	125 mm x 40 mm	100 mm x 40 mm	125 mm x 40 mm	
	762 mm (30 in)	1326660	384210		2
	914 mm (36 in)	1326661	384211	1338087	2
1	1067 mm (42 in)	1326663	384213	1338088	2
	1219 mm (48 in)	1326664	384214	1338089	2
	1372 mm (54 in)	1326665	384215		2
	1524 mm (60 in)	1326666	384216		2
2	Latch	369795	369795	369795	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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FORKS

TWO STAGE LIMITED FREE-LIFT

(Figure 200 Continued)

H60-65XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
1	Fork	100 mm x 45 mm	125 mm x 50 mm	180 mm x 45 mm	
	914 mm (36 in)	1333018	367419		2
	1067 mm (42 in)	1333020	367420		2
	1207 mm (42.5 in)			1338098	2
	1219 mm (48 in)	1333021	367421		2
	1372 mm (54 in)		367422	1332745	2
	1524 mm (60 in)		367423		2
	1829 mm (72 in)	1333024	367424		2
2	Latch	369796	369796	369796	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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NOTES

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THREE STAGE FULL FREE-LIFT

CARRIAGE (Figure 208)
THREE STAGE FULL FREE-LIFT
SIX ROLLER (LAST USED ON S/N B508V-4186, B563V-2161) ..... Page 391

CARRIAGE (Figure 209)
THREE STAGE FULL FREE-LIFT
SIX ROLLER (FIRST USED ON S/N B508V-4187, B563V-2162) ..... Page 392

FORKS (Figure 213)
THREE STAGE FULL FREE-LIFT ..... Page 400

FREE LIFT (Figure 205)
THREE STAGE FULL FREE-LIFT ..... Page 378

FREE-LIFT CYLINDER (Figure 207)
THREE STAGE FULL FREE-LIFT ..... Page 384

HEADER HOSE (Figure 212)
THREE STAGE FULL FREE-LIFT ..... Page 396

INNER MAST (Figure 203)
THREE STAGE FULL FREE-LIFT ..... Page 374

INTERMEDIATE MAST (Figure 202)
THREE STAGE FULL FREE-LIFT ..... Page 372

LOAD BACKREST EXTENSION (Figure 210)
THREE STAGE FULL FREE-LIFT ..... Page 393

MAIN CYLINDER (Figure 206)
THREE STAGE FULL FREE-LIFT ..... Page 382

MAIN LIFT (Figure 204)
THREE STAGE FULL FREE-LIFT ..... Page 376

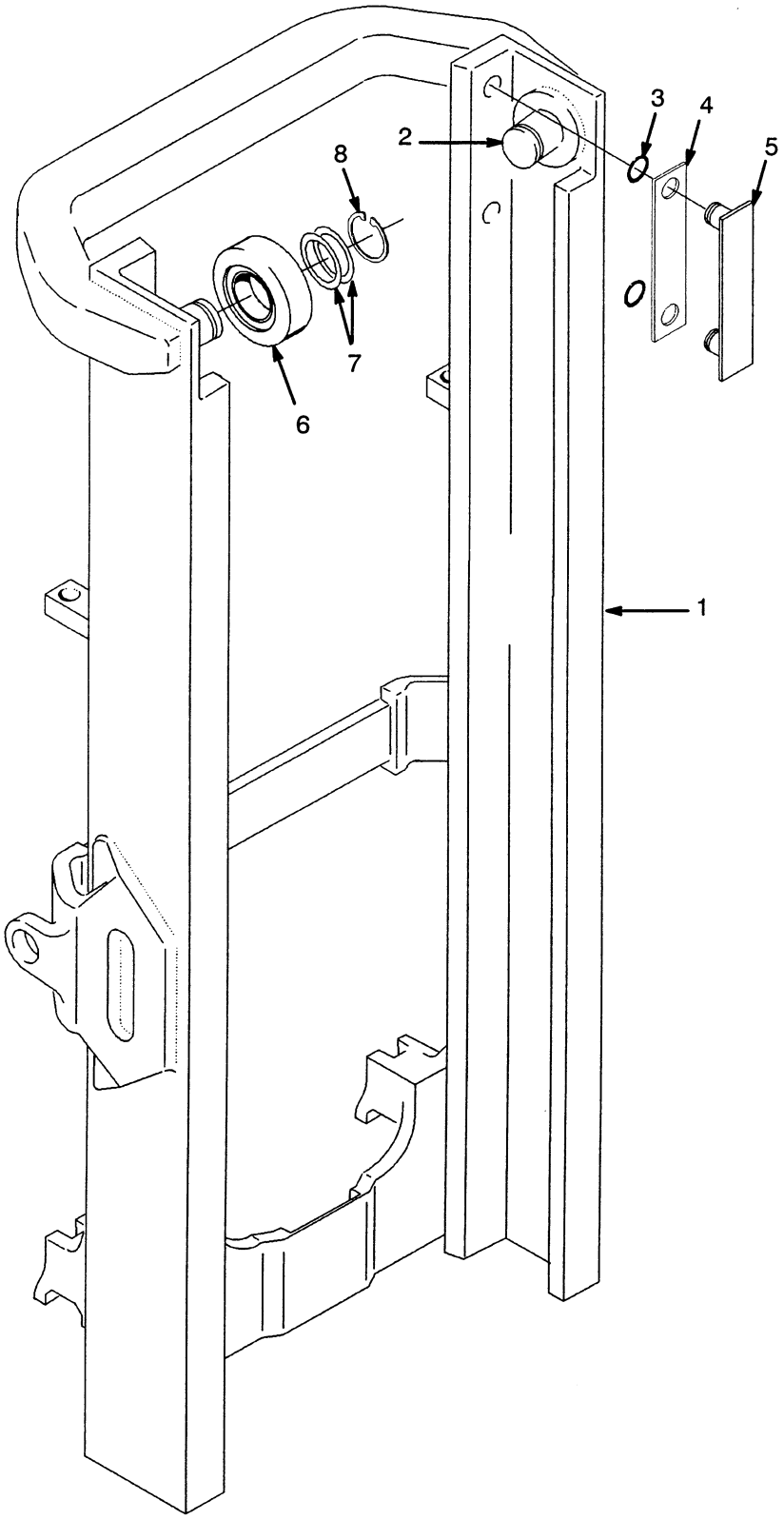
MAST INSTALLATION (Figure 211)
THREE STAGE FULL FREE-LIFT ..... Page 394

OUTER MAST (Figure 201)
THREE STAGE FULL FREE-LIFT ..... Page 370

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OUTER MAST (Figure 201)

THREE STAGE FULL FREE-LIFT



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OUTER MAST

THREE STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Outer Mast	1341004	1341007	1341010	1341013

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Outer Mast	1341004	1341007	1341010	1341013

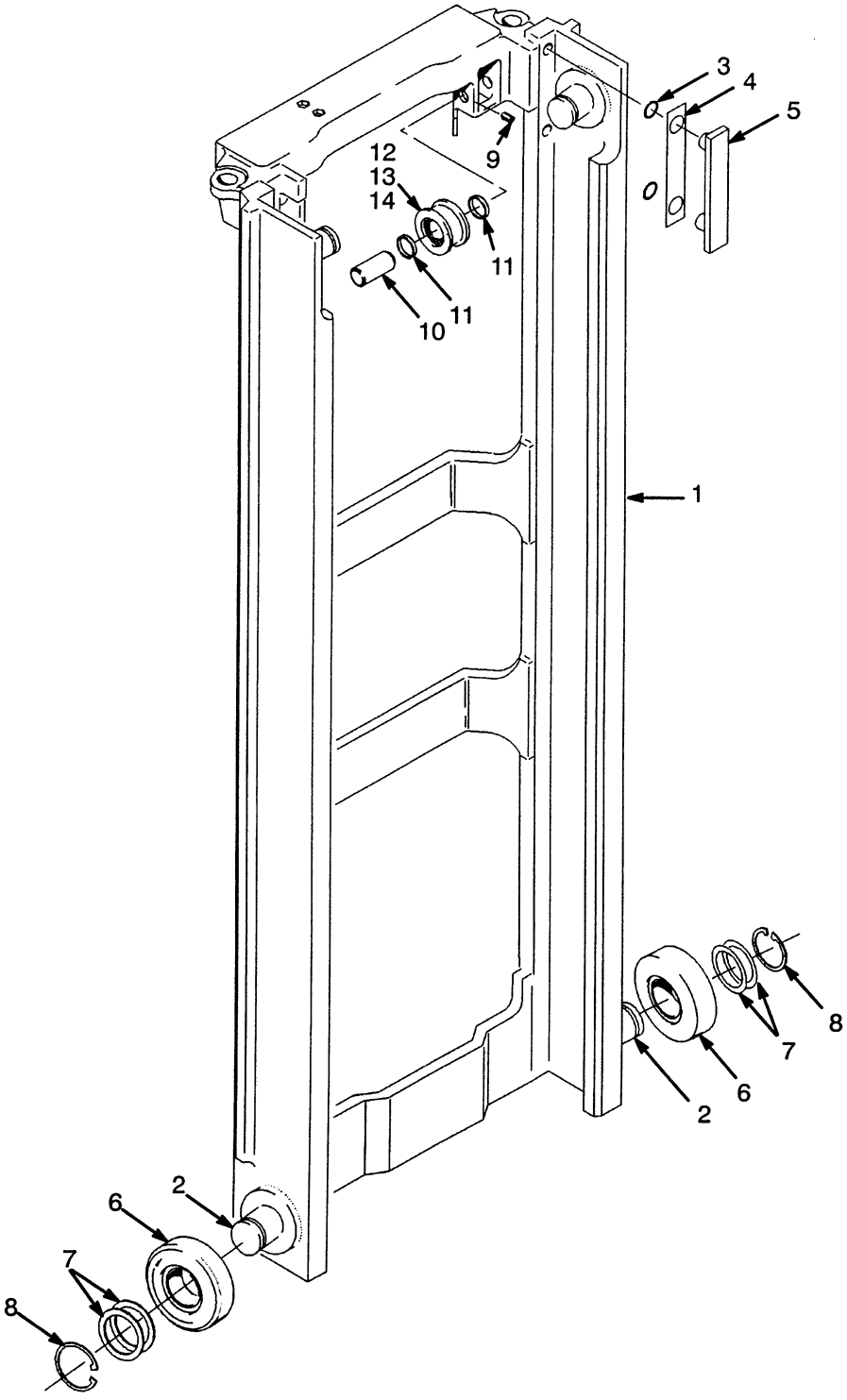
REF	PART NO.	NAME OF PART	QTY
a	.....	Mast	1
1 a	.....	Outer Mast	1
2	1345216	Stub Shaft	2
3	104506	O-Ring	4
4	131716	Shim (0.020 in)	4
5	215211	Bearing Strip	2
6	1395168	Load Roller ("A" Standard)	2
6	1333396	Load Roller ("B" 0.76 mm)	2
6	1333397	Load Roller ("C" 1.52 mm)	2
7	129387	Shim (0.020 in)	AR
8	58901	Snap Ring	2

a ☞Table Above

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INTERMEDIATE MAST (Figure 202)

THREE STAGE FULL FREE-LIFT



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INTERMEDIATE MAST

THREE STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Intermed. Mast	1341714	1341717	1341719	1341722

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Intermed. Mast	1341714	1341717	1341719	1341722

REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
1	a	.....	Intermediate Mast	1
2		1345216	Stubshaft	4
3		104506	O-Ring	4
4		131716	Shim (0.020in)	4
5		215211	Bearing	2
6		1395168	Load Roller ("A" Standard)	4
6		1333396	Load Roller ("B" 0.76 mm)	4
6		1333397	Load Roller ("C" 1.52 mm)	4
7		129387	Shim	AR
8		58901	Snap Ring	4
9	b	302144	Setscrew	4
9	c	302462	Pin	2
10	b	1333389	Pin	2
10	c	1368656	Pin	2
11	d	1333644	Spacer	4
11	e	1378691	Spacer	4
12	d	1345183	Chain Sheave	2

REF		PART NO.	NAME OF PART	QTY
12		1345181	Sheave	1
12		37752	Snap Ring	2
12		231020	Bearing	1
13	e	1379685	Chain Sheave (H45-55XM)	2
13		1378698	Sheave	2
13		37752	Snap Ring	1
13		1378699	Bearing	1
14	e	1379684	Chain Sheave (H60-65XM)	2
14		1378694	Sheave	1
14		37752	Snap Ring	1
14		1378699	Bearing	1

a ☞ Table Above

b Last Used On Mast S/N B508B-9234, B508V-1513 & B563B-4904

c First Used On Mast S/N B508B-9235, B508V-1514, B563B-4905 & B563V-1501

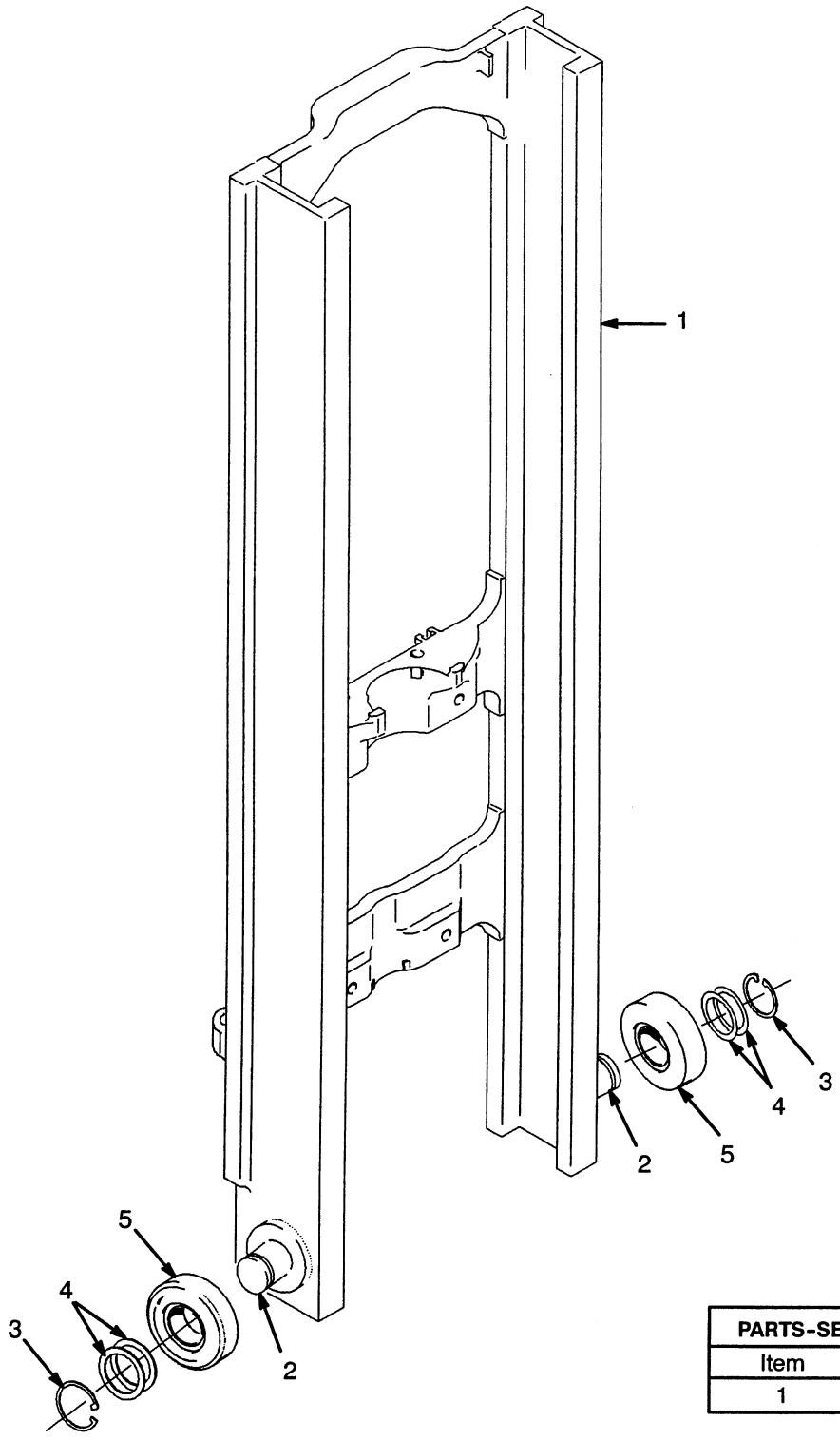
d Last Used On S/N B508V-3250, B563V-2041

e First Used On S/N B508V-3251, B563V-2042

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INNER MAST (Figure 203)

THREE STAGE FULL FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1	I-E-37

INNER MAST

THREE STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Inner Mast	[b]1341879 [c]1381354	[b]1341882 [c]1381357	[b]1341884 [c]1381359	[b]1341887 [c]1381362

[b] Last Used On S/N B508V-4186
[c] First Used On S/N B508V-4187

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Inner Mast	[d]1341879 [e]1381354	[d]1341882 [e]1381357	[d]1341884 [e]1381359	[d]1341887 [e]1381362

[d] Last Used On S/N B563V-2161
[e] First Used On S/N B563V-2162

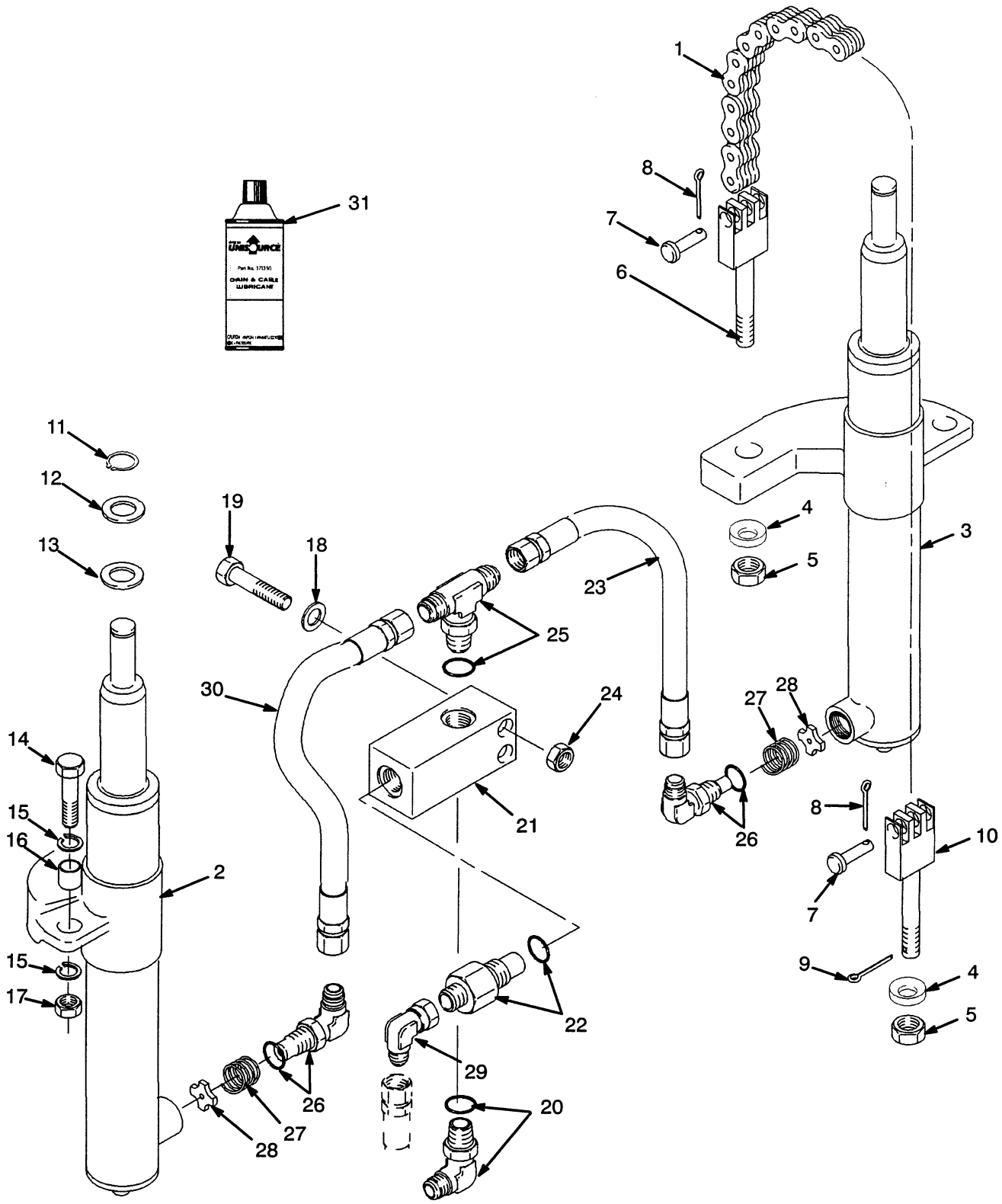
REF		PART NO.	NAME OF PART	QTY
	[a]	.....	Mast	1
1	[a]	.....	Inner Mast	1
2		1345216	Stubshaft	2
3		58901	Snap Ring	2
4		129387	Shim	AR
5		1395168	Load Roller ("A" Standard)	2
5		1333396	Load Roller ("B" 0.76 mm)	2
5		1333397	Load Roller ("C" 1.52 mm)	2

[a] ☞ Tables Above

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MAIN LIFT (Figure 204)

THREE STAGE FULL FREE-LIFT



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MAIN LIFT

THREE STAGE FULL FREE-LIFT

H45-55XM

REF NO	NAME OF PART 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Chain	182343	135634	129361	135588

H60-65XM

REF NO	NAME OF PART 1 2 3 4	LIFT HEIGHT TO BOTTOM OF FORKS			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Chain	1342120	1342123	1342384	1342129

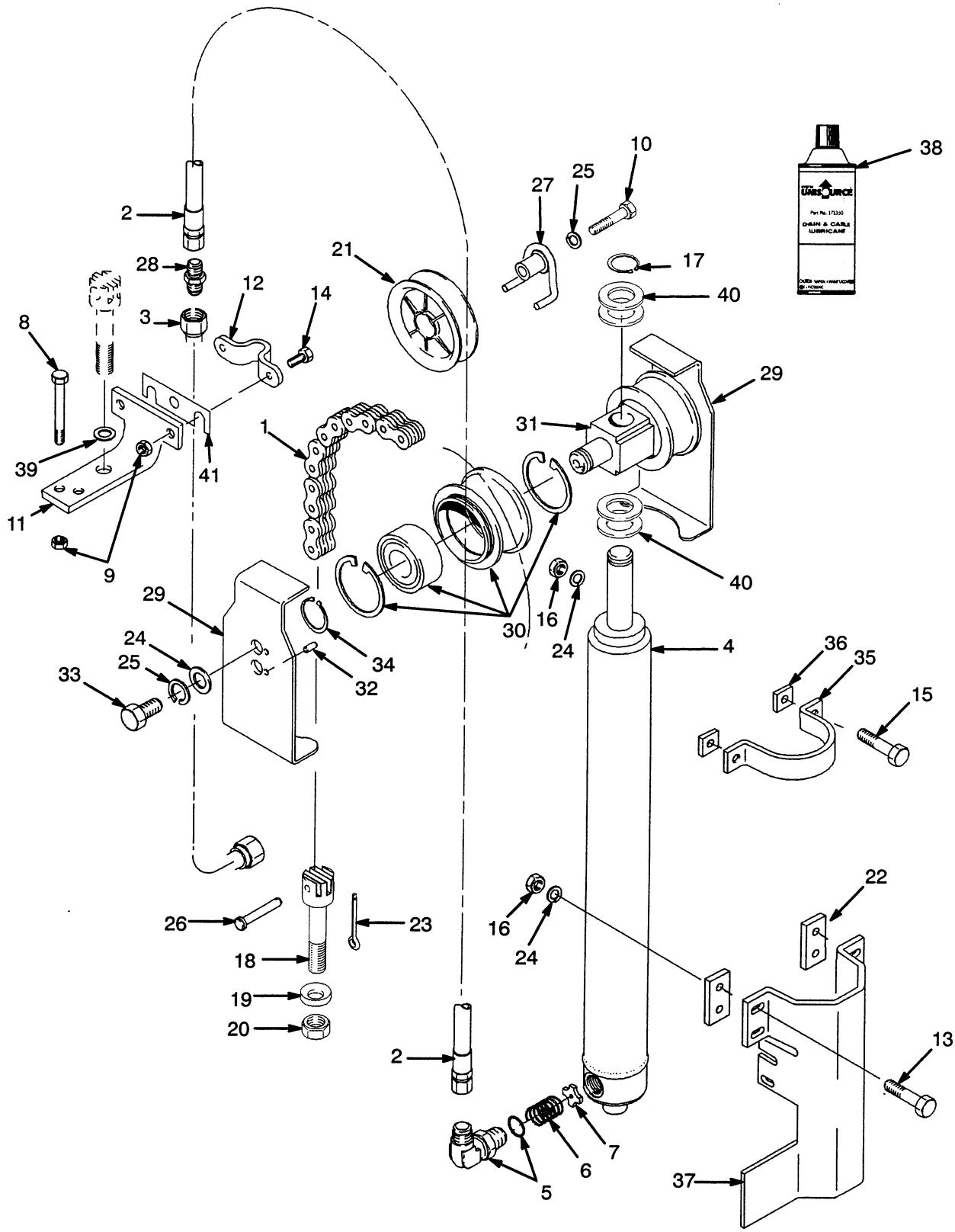
REF		PART NO.	NAME OF PART	QTY
		.....	Mast	1
1	a	.....	Chain	2
2		.....	Cylinder (RH)	1
			☞ Figure 206	
3		.....	Cylinder (LH)	1
			☞ Figure 206	
4		297649	Base Ring	4
5		161003	Nut	4
6	b	320313	Chain Anchor	2
6	c	1333328	Chain Anchor	2
7		323161	Pin	4
8		15200	Cotter Pin	4
9		15223	Cotter Pin	2
10	b	1365140	Chain Anchor	2
10	c	1333329	Chain Anchor	2
11		131358	Snap Ring	2
12		1333382	Washer	2
13		1354915	Washer	AR
13		1354916	Washer	AR
13		1354917	Washer	AR
14		292532	Capscrew	2
15		296422	Washer	4
16		323090	Spacer	2
17		300937	Nut	2
18		320157	Washer	2
19		214364	Capscrew	2
20		184761	Fitting	1
20		16486	O-Ring	1
21		1333392	Valve Housing	1
22	b	2309766	Lowering Control Valve	1
22	c	316306	Lowering Control Valve	1
22		16982	O-Ring	1
23		1345403	Hose	1
24		313828	Nut	2
25		16578	Fitting	1
25		16485	O-Ring	1
26		189595	Fitting	2
26		16485	O-Ring	1
27		337179	Spring	2
28		357749	Special Washer	2
29		16882	Fitting	1
30		1462551	Hose	1
31		171350	Chain Lubricant	AR

a ☞ Table Above
b H45-55XM
c H60-65XM

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FREE LIFT (Figure 205)

THREE STAGE FULL FREE-LIFT



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FREE LIFT

THREE STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Chain	231082[a] 197345[b]	161059[a] 180177[b]	182332[a] 180029[b]	182343[a] 180057[b]
2	Hose	1342407	1342410	1342412	1342415
3	Tube	1345359	1345362	1345364	1345367

REF		PART NO.	NAME OF PART	QTY
		.....	Mast	1
1	c	.....	Chain	2
2	c	.....	Hose	1
3	c	.....	Tube	1
4		.....	Free-Lift Cylinder	1
			☞ Figure 207	
5		238637	Fitting	1
5		16485	O-Ring	1
6		154355	Spring	1
7		356505	Special Washer	1
8		136704	Capscrew	2
9		313828	Nut	4
10		292533	Capscrew	1
11		1362390	Bracket	1
12		1345401	Clamp	1
13		287837	Capscrew	4
14		136681	Capscrew	2
15	e	292529	Capscrew	2
15	d	292530	Capscrew	2
16		300937	Nut	6
17		131358	Snap Ring	1
18	ef	320313	Chain Anchor	2
18	eg	1369357	Chain Anchor	2
18	df	1333328	Chain Anchor	2
18	dg	1369356	Chain Anchor	2
19		297649	Base Ring	2
20		161003	Nut	2
21		1343989	Hose Sheave	1
22	d	1354903	Spacer	2
23		15200	Cotter Pin	2
24		320161	Washer	8
25		292683	Lockwasher	3
26		323161	Pin	2
27		1360534	Stubshaft	1
28		17635	Fitting	1
29		1395285	Chain Guard	2
30	h	1354912	Chain Sheave	2
30		1354911	Sheave	1
30		37752	Snap Ring	2
30		231020	Bearing	1
30	k	1379682	Chain Sheave	2
30		1378692	Sheave	1
30		37752	Snap Ring	1
30		1378699	Bearing	1
31	h	1337905	Crosshead	1
31	k	1378690	Crosshead	1
32		302461	Pin	2
33		292527	Capscrew	2
34		304526	Snap Ring	2
35		1465504	Clamp	1
36	d	1354902	Spacer	2
37		1354962	Cylinder Guard Bracket	1
38		171350	Chain Lubricant	AR
39		320165	Washer	1
40	b	1362433	Spacer	4
41		325616	Spacer	AR

a Last Used On Mast S/N B508B-9234, B508V-1513
b First Used On Mast S/N B508B-9235, B508V-1514
c ☞ Table Above
d H60-65XM
e H45-55XM
f Last Used On Mast S/N B508B-6199
g First Used On Mast S/N B508B-6200
h Last Used On S/N B508V-3250
k First Used On S/N B508V-3251

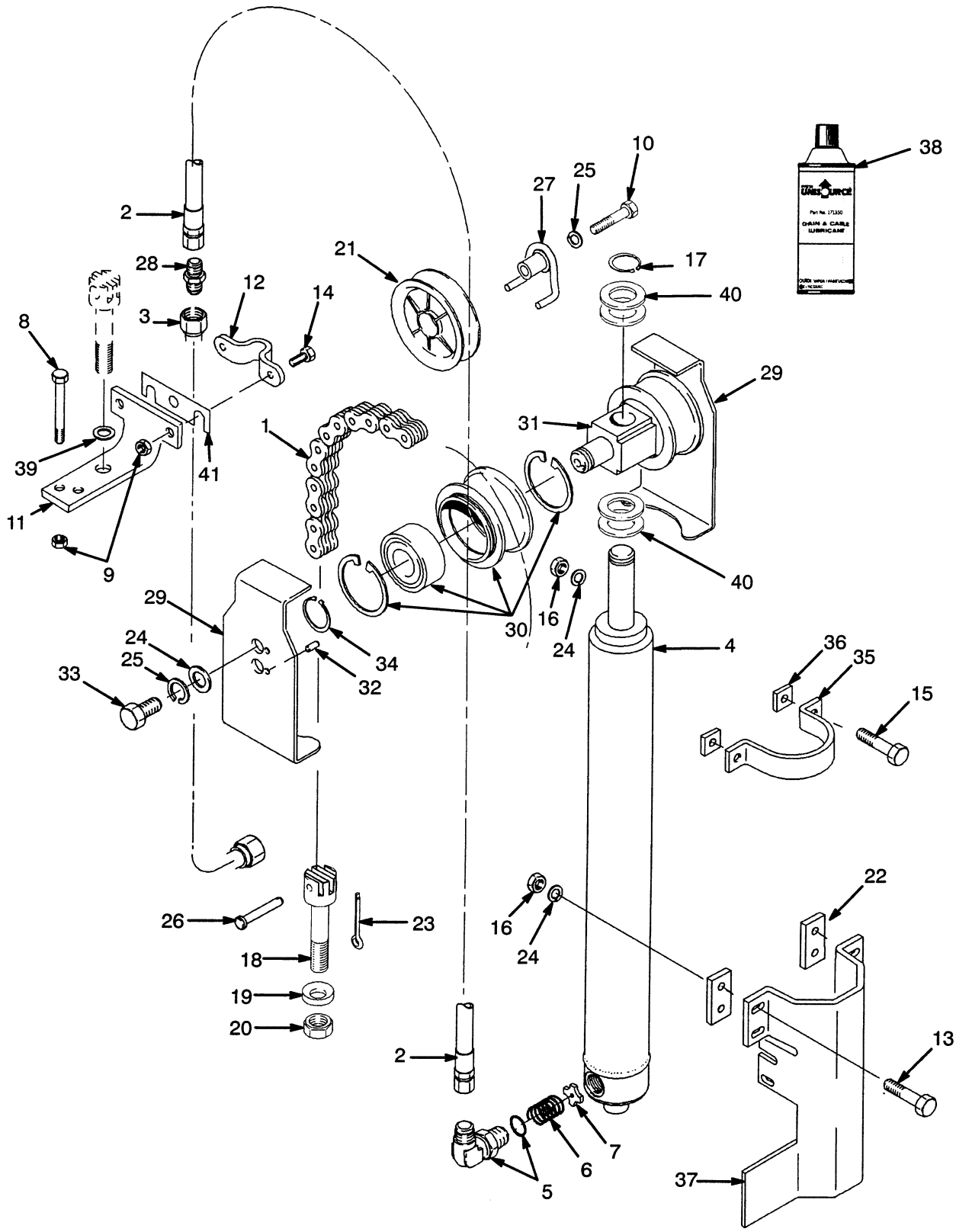
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FREE LIFT

THREE STAGE FULL FREE-LIFT

(Figure 205 Continued)



FREE LIFT

THREE STAGE FULL FREE-LIFT

(Figure 205 Continued)

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Chain	1342374[a] 1342391[b]	1342377[a] 1369328[b]	1342379[a] 1342118[b]	1342120[a] 1342121[b]
2	Hose	1342407	1342410	1342412	1342415
3	Tube	1345359	1345362	1345364	1345367

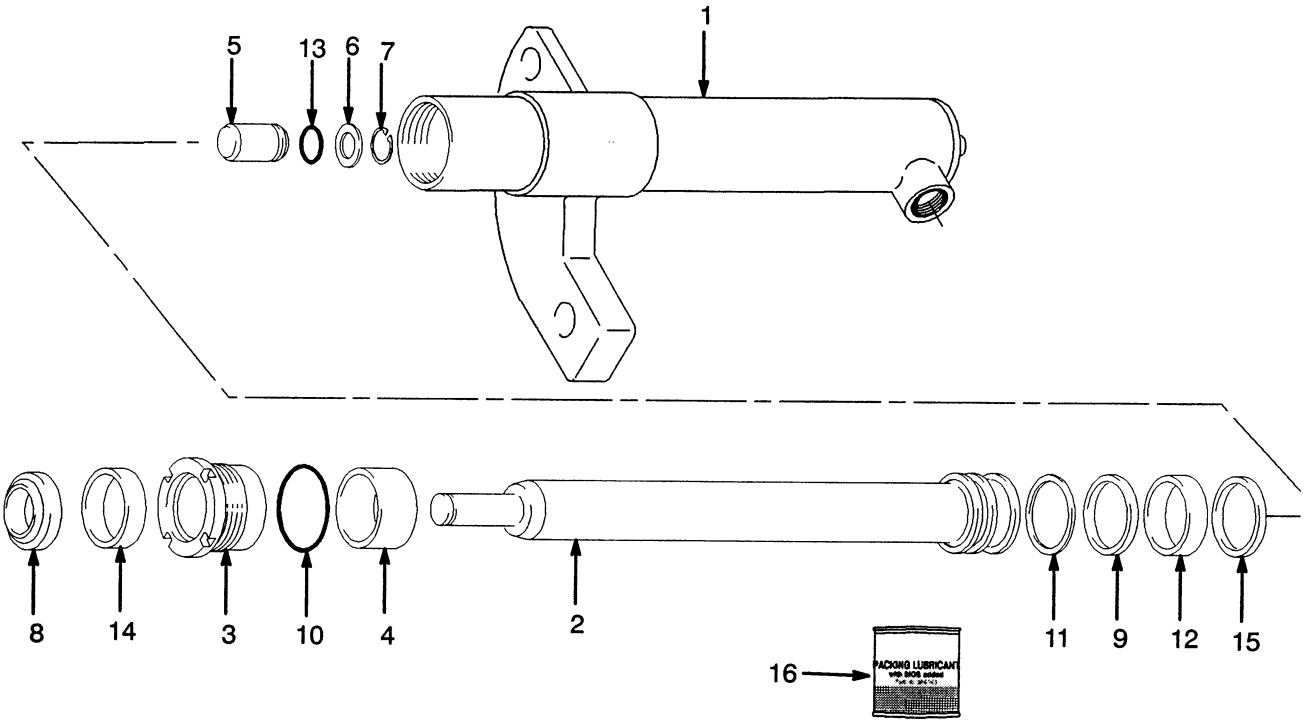
REF		PART NO.	NAME OF PART	QTY
		....	Mast	1
1	c	....	Chain	2
2	c	....	Hose	1
3	c	....	Tube	1
4		....	Free-Lift Cylinder ☞ Figure 207	1
5		238637	Fitting	1
5		16485	O-Ring	1
6		154355	Spring	1
7		356505	Special Washer	1
8		136704	Capscrew	2
9		313828	Nut	4
10		292533	Capscrew	1
11		1362390	Bracket	1
12		1345401	Clamp	1
13		287837	Capscrew	4
14		136681	Capscrew	2
15	e	292529	Capscrew	2
15	d	292530	Capscrew	2
16		300937	Nut	6
17		131358	Snap Ring	1
18	ef	320313	Chain Anchor	2
18	eg	1369357	Chain Anchor	2
18	df	1333328	Chain Anchor	2
18	dg	1369356	Chain Anchor	2
19		297649	Base Ring	2
20		161003	Nut	2
21		1343989	Hose Sheave	1
22	d	1354903	Spacer	2
23		15200	Cotter Pin	2
24		320161	Washer	8
25		292683	Lockwasher	3
26		323161	Pin	2
27		1360534	Stubshaft	1
28		17635	Fitting	1
29		1395285	Chain Guard	2
30	h	....	Chain Sheave	2
30		1345201	Sheave	1
30		37752	Snap Ring	2
30		231020	Bearing	1
30	k	1379683	Chain Sheave	2
30		1378693	Sheave	1
30		37752	Snap Ring	1
30		1378699	Bearing	1
31	h	1337905	Crosshead	1
31	k	1378690	Crosshead	1
32		302461	Pin	2
33		292527	Capscrew	2
34		304526	Snap Ring	2
35		1465504	Clamp	1
36	d	1354902	Spacer	2
37		1354962	Cylinder Guard Bracket	1
38		171350	Chain Lubricant	AR
39		320165	Washer	1
40	b	1362433	Spacer	4
41		325616	Spacer	AR

a Last Used On Mast S/N B563B-4904
b First Used On Mast S/N B563B-4905, B563V-1501
c ☞ Table Above
d H60-65XM
e H45-55XM
f Last Used On Mast S/N 563B-3499
g First Used On Mast S/N 563B-3500
h Last Used On S/N B563V-2041
k First Used On S/N B563V-2042

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MAIN CYLINDER (Figure 206)

THREE STAGE FULL FREE-LIFT



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MAIN CYLINDER

THREE STAGE FULL FREE-LIFT

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
	Group # Cylinder (RH)	8600455 1341542	8600458 1341545	8600460 1341547	8600463 1341550
1	Shell	1355589	1355601	1355609	1355622
2	Rod	1355587	1355599	1355607	1355620
	Group # Cylinder (LH)	8600405 1341575	8600408 1341578	8600410 1341580	8600413 1341583
1	Shell	1358973	1355598	1355606	1355619
2	Rod	1355587	1355599	1355607	1355620
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
	Group # Cylinder (RH)	8600555 1341608	8600558 1341611	8600560 1341613	8600563 1341616
1	Shell	1355731	1355743	1355752	1355760
2	Rod	1355729	1355741	1355749	1355758
	Group # Cylinder (LH)	8600505 1341641	8600508 1341644	8600510 1341646	8600513 1341649
1	Shell	1355728	1355740	1355748	1355757
2	Rod	1355729	1355741	1355749	1355758

KEY:
A: H45-55XM
B: H60-65XM

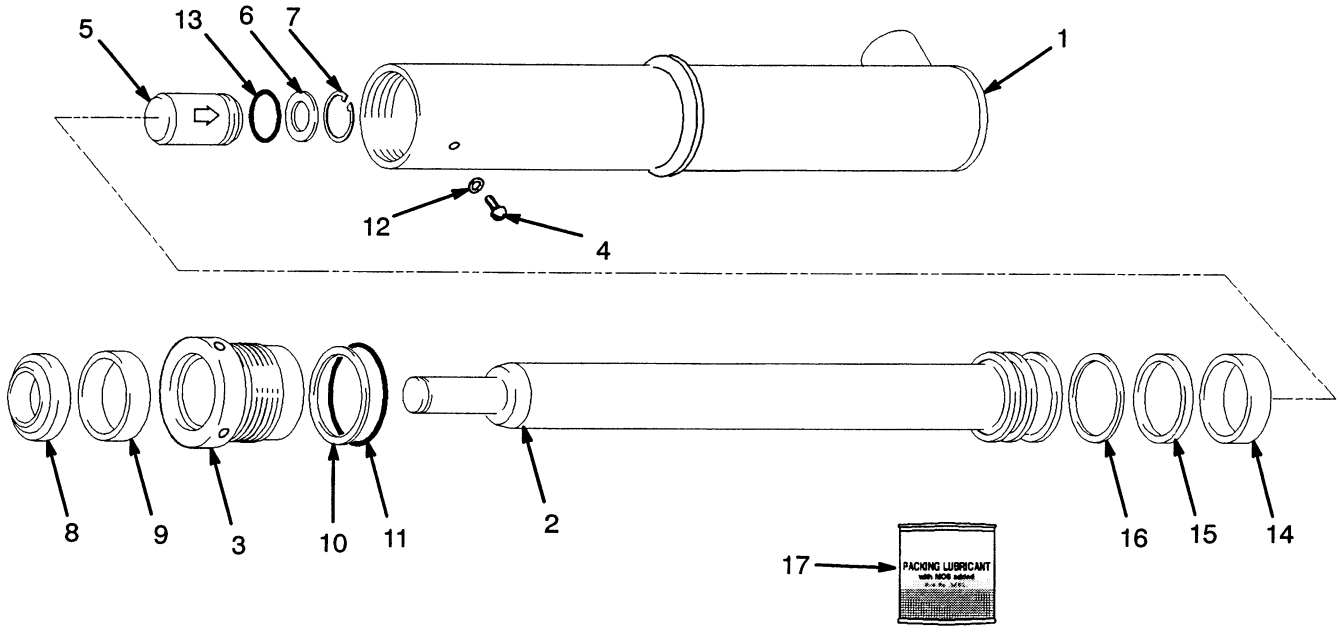
REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	.....	Mast	1	1
	a	.....	Main Cylinder	1	1
1	a	.....	Shell	1	1
2	a	.....	Rod	1	1
3		1355496	Retainer	1	..
3		1355713	Retainer	..	1
4	b	1355610	Spacer	1	..
4	c	1355711	Spacer	..	1
4	d	1355751	Spacer	..	1
5		257913	Check Valve	1	1
6		297531	Washer	1	1
7		187388	Snap Ring	1	1
8	ef	1319668	Wiper	1	1
9	e	2013075	Seal	1	..
9	f	334156	Seal	..	1
10	e	92861	O-Ring	1	..
10	f	59229	O-Ring	..	1
11	e	638246	Back-Up Ring	1	..
11	f	335012	Back-Up Ring	..	1
12	e	1356750	Wear Ring	1	..
12	f	1356751	Wear Ring	..	1
13	ef	39348	O-Ring	1	1
14	ef	1356749	Rod Seal	1	1
15	f	1356748	Piston Ring	..	1
15	e	1360127	Piston Ring	1	..
16		186061	Packing Lubricant	ARAR	

a ☞ Table Above
b For Lift Heights 199.2 in. And 216.9 in.
c For Lift Heights 162.1 in. And 179.8 in.
d For Lift Heights 191.7 in. And 209.4 in.
e Included In Seal Kit 1355497
f Included In Seal Kit 1355714

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FREE-LIFT CYLINDER (Figure 207)

THREE STAGE FULL FREE-LIFT



FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
H45-55XM

Last Used On Mast S/N B508B-9234, B508V-1513

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
	Group # Cylinder	8601106 1342045	8601109 1342048	8601112 1342051	8601115 1342054
1	Shell	1356556	1356565	1356574	1356583
2	Rod	1356557	1356566	1356575	1356584

Used On Mast S/N B508B-9235, B508V-1514, Thru S/N B508V-18484 Except B508V-B508V-18477

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
	Group # Cylinder	8603406 2309480	8603409 2303951	8603412 2302115	8603415 2303489
1	Shell	2303871	2311434	2310036	2309770
2	Rod	2306774	2311141	2302486	2309044

First Used On Mast S/N B508V-18484 Including B508V-18477

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
	Group # Cylinder	8602406 1366733	8602409 1366736	8602412 1366739	8602415 1366742
1	Shell	2303871	2311434	2310036	2309770
2	Rod	1356560	1366569	1356578	1371631

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FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
H45-55XM

KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	c	.....	Mast	1	1
	c	.....	Free-Lift Cylinder	1	1
1	c	.....	Shell	1	1
2	c	.....	Rod	1	1
3		1356292	Retainer	1	..
3		1356661	Retainer	..	1
4	a	295649	Screw	1	1
4	b	1361302	Screw	1	1
5		257913	Check Valve	1	1
6		297531	Washer	1	1
7		187388	Snap Ring	1	1
8	de	2013099	Rod Wiper	1	1
9	de	1358970	Rod Seal	1	1
10	d	147973	Back-Up Ring	1	..
10	e	164840	Back-Up Ring	..	1
11	d	90263	O-Ring	1	..
11	e	15880	O-Ring	..	1
12	de	190887	Seal	1	1
13	de	39348	Seal	1	1
14	d	1358972	Wear Ring	1	..
14	e	636941	Wear Ring	..	1
15	d	2013088	Seal	1	..
15	e	309062	Seal	..	1
16	d	2013089	Back-Up Ring	1	..
16	e	637565	Back-Up Ring	..	1
17		186061	Packing Lubricant	ARAR	

a Last Used On Mast S/N B508B-9234, B508V-1513 & B563B-4904
b First Used On Mast S/N B508B-9235, B508V-1514, B563B-4905 & B563V-1501
c ☞ Table Above
d Included In Seal Kit 1358969
e Included In Seal Kit 1356662

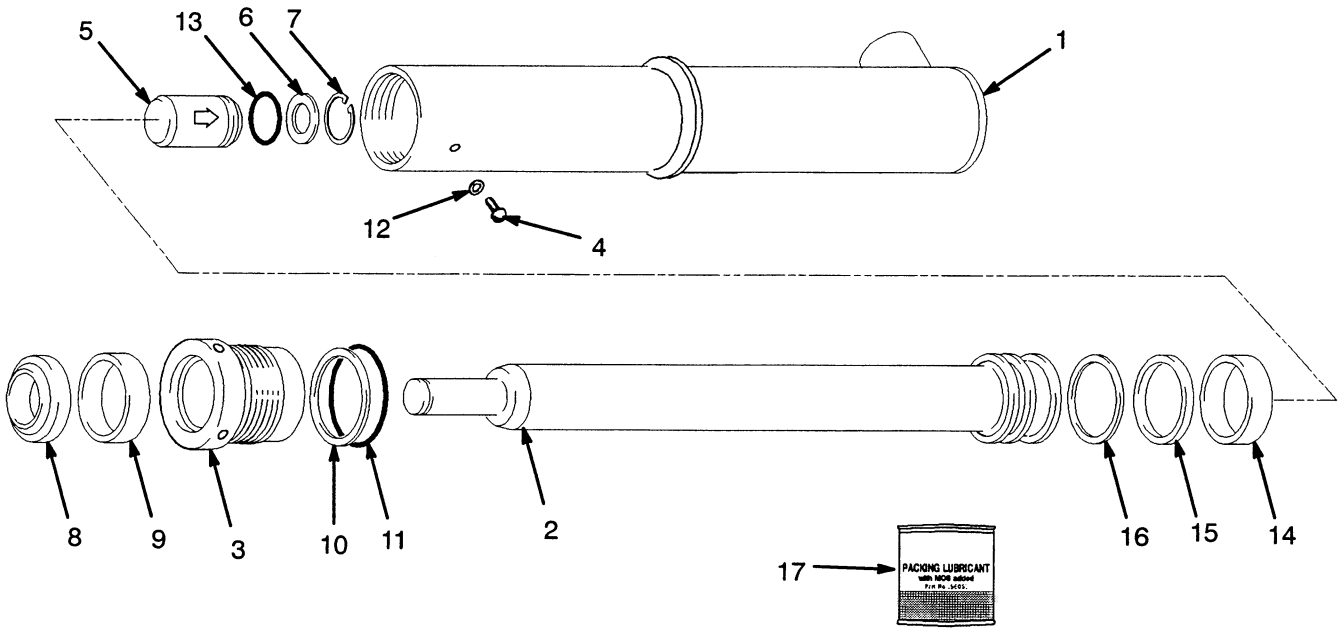
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NOTES

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FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
(Figure 207 Continued)



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FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
H60-65XM
(Figure 207 Continued)

Last Used On Mast S/N B563B-4904

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
	Group # Cylinder	8601207 1341676	8601210 1341679	8601213 1341682	8601216 1341685
1	Shell	1356678	1356687	1356061	1356070
2	Rod	1356679	1356688	1356062	1356071

Used On Mast S/N B563V-1501 Thru S/N B563V-7094

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
	Group # Cylinder	8603507 2310270	8603510 2302410	8603513 2303532	8603516 2307773
1	Shell	2311691	2305742	2309026	2309353
2	Rod	2303824	2304216	2309410	2303899

First Used On Mast S/N B563V-7095

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
	Group # Cylinder	8602507 1369549	8602510 1371602	8602513 1371605	8602516 1371608
1	Shell	2311691	2305742	2309026	2309353
2	Rod	1356682	1356691	1356065	1356074

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FREE-LIFT CYLINDER
THREE STAGE FULL FREE-LIFT
H60-65XM
(Figure 207 Continued)

KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	c	.....	Mast	1	1
	c	.....	Free-Lift Cylinder	1	1
1	c	.....	Shell	1	1
2	c	.....	Rod	1	1
3		1356292	Retainer	1	..
3		1356661	Retainer	..	1
4	a	295649	Screw	1	1
4	b	1361302	Screw	1	1
5		257913	Check Valve	1	1
6		297531	Washer	1	1
7		187388	Snap Ring	1	1
8	de	2013099	Rod Wiper	1	1
9	de	1358970	Rod Seal	1	1
10	d	147973	Back-Up Ring	1	..
10	e	164840	Back-Up Ring	..	1
11	d	90263	O-Ring	1	..
11	e	15880	O-Ring	..	1
12	de	190887	Seal	1	1
13	de	39348	Seal	1	1
14	d	1358972	Wear Ring	1	..
14	e	636941	Wear Ring	..	1
15	d	2013088	Seal	1	..
15	e	309062	Seal	..	1
16	d	2013089	Back-Up Ring	1	..
16	e	637565	Back-Up Ring	..	1
17		186061	Packing Lubricant	AR	AR

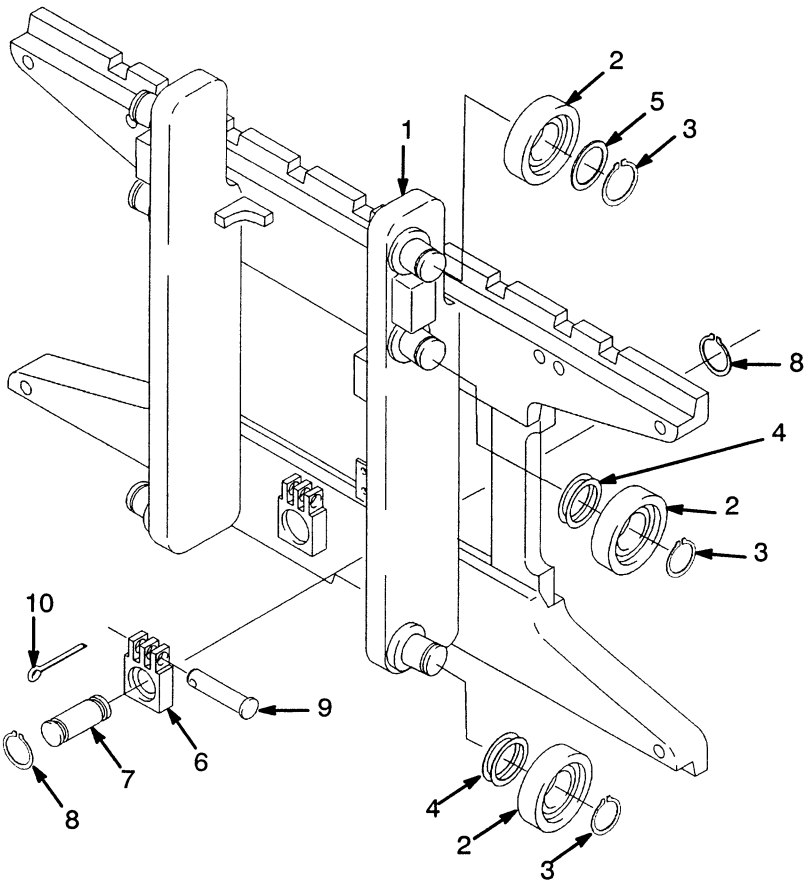
a Last Used On Mast S/N B508B-9234, B508V-1513 & B563B-4904
b First Used On Mast S/N B508B-9235, B508V-1514, B563B-4905 & B563V-1501
c ☞ Table Above
d Included In Seal Kit 1358969
e Included In Seal Kit 1356662

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CARRIAGE (Figure 208)

THREE STAGE FULL FREE-LIFT

SIX ROLLER (LAST USED ON S/N B508V-4186, B563V-2161)



	H45-55XM	H60-65XM
Group No.	8500009	8500010
Carriage	1343842	1343843

KEY:
A: H45-55XM
B: H60-65XM

REF	PART NO.	NAME OF PART	QTY A	QTY B
a	.....	Carriage Assy	1	..
a	.....	Carriage Assy	..	1
1	1338528	Carriage	1	..
1	1338530	Carriage	..	1
1	1345216	Stubshaft	6	6
2	1333398	Load Roller	6	6
2	1395169	Load Roller ("A" Standard)	6	6
2	1333399	Load Roller ("B" 0.76 mm)	6	6
2	1337900	Load Roller ("C" 1.52 mm)	6	6
3	58901	Snap Ring	6	6
4	129387	Shim	AR	AR
5	366115	Spacer	2	2
6	1369345	Chain Anchor	2	..
6	1369344	Chain Anchor	..	2
7	317735	Pin	2	2
8	131358	Snap Ring	4	4
9	323161	Pin	2	2
10	15200	Cotter Pin	2	2

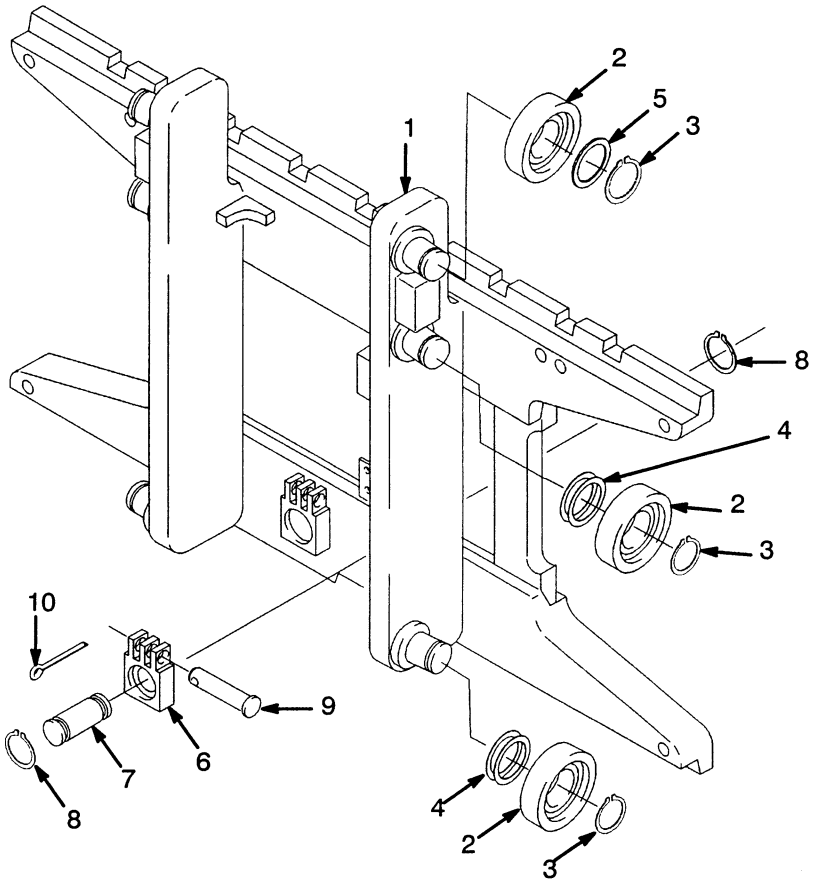
a ☞ Table Above

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CARRIAGE (Figure 209)

THREE STAGE FULL FREE-LIFT

SIX ROLLER (FIRST USED ON S/N B508V-4187, B563V-2162)



	H45-55XM	H60-65XM
Group No.	8500276	8500275
Carriage	1379459	1379460

KEY:
A: H45-55XM
B: H60-65XM

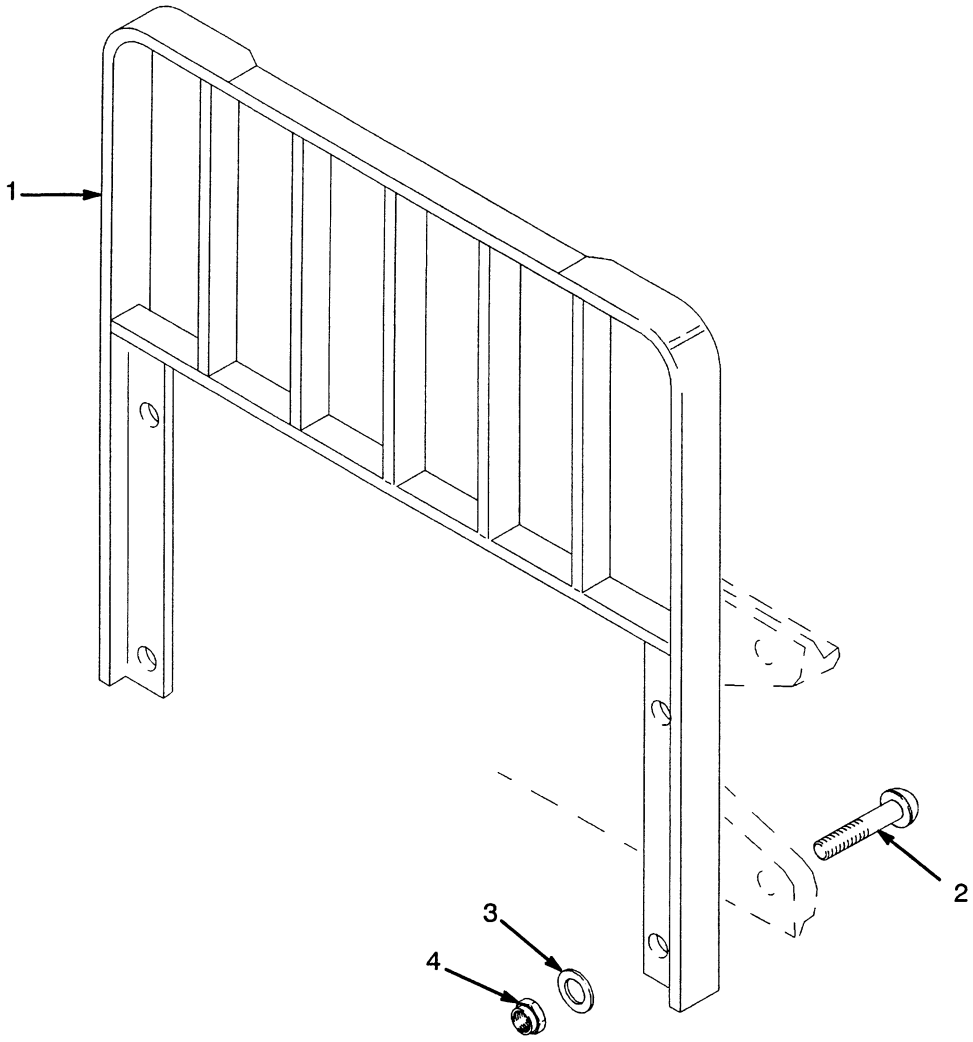
REF	PART NO.	NAME OF PART	QTY A	QTY B
a	.....	Carriage Assy	1	..
a	.....	Carriage Assy	..	1
1	1381560	Carriage	1	..
1	1381561	Carriage	..	1
1	1345216	Stubshaft	6	6
2	1333398	Load Roller	6	6
2	1395169	Load Roller ("A" Standard) ..	6	6
2	1333399	Load Roller ("B" 0.76 mm) ..	6	6
2	1337900	Load Roller ("C" 1.52 mm) ..	6	6
3	58901	Snap Ring	6	6
4	129387	Shim	AR	AR
5	366115	Spacer	2	2
6	1369345	Chain Anchor	2	..
6	1369344	Chain Anchor	..	2
7	317735	Pin	2	2
8	131358	Snap Ring	4	4
9	323161	Pin	2	2
10	15200	Cotter Pin	2	2

a ☞ Table Above

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LOAD BACKREST EXTENSION (Figure 210)

THREE STAGE FULL FREE-LIFT



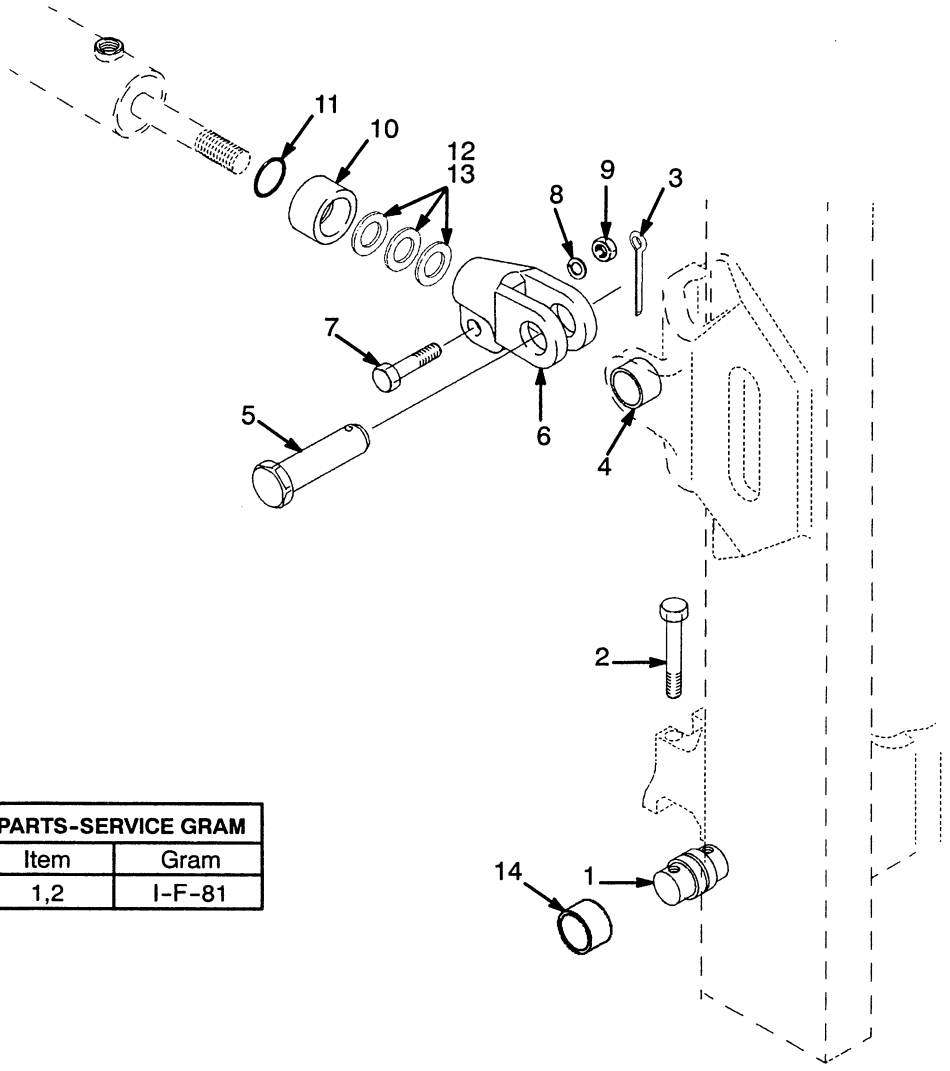
KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1338642	Load Backrest Extension	1	..
1		1338645	Load Backrest Extension	..	1
1	a	1345267	Load Backrest Extension	..	1
2		1343990	Capscrew	4	..
2		1354923	Capscrew	..	4
3		221771	Washer	4	4
3	b	296423	Washer	4	4
4		300937	Nut	4	4

a For Polished Forks W/Full Bottom Taper
b Optional

MAST INSTALLATION (Figure 211)

THREE STAGE FULL FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1,2	I-F-81

KEY:
A: 6° Forward Tilt/10° Back Tilt
B: 6° Forward Tilt/6° Back Tilt
C: 6° Forward Tilt/5° Back Tilt

REF		PART NO.	NAME OF PART	QTY A	B	C
1	a	1333386	Pin	2	2	2
1	b	1376424	Pin	2	2	2
2	a	293659	Capscrew	4	4	4
2	b	1376423	Capscrew	4	4	4
3		15236	Cotter Pin	2	2	2
4		300982	Bushing	2	2	2
5		1345354	Pin	2	2	2
6		1307641	Rod End	2	2	2
7		293650	Capscrew	2	2	2
8		292683	Lockwasher	2	2	2
9		216877	Nut	2	2	2

REF	PART NO.	NAME OF PART	QTY A	B	C
10	1451788	Spacer	..	2	..
10	384101	Spacer	..	..	2
11	55434	O-Ring	..	2	2
12	134675	Shim	..	AR	AR
13	1325119	Shim	..	AR	AR
13	1361948	Shim	..	...	AR
14	1333385	Bushing	2	2	2
14	1380115	Bushing (Optional)	2	2	2

a First Used On S/N D177B-19806
b Last Used On S/N D177B-19807

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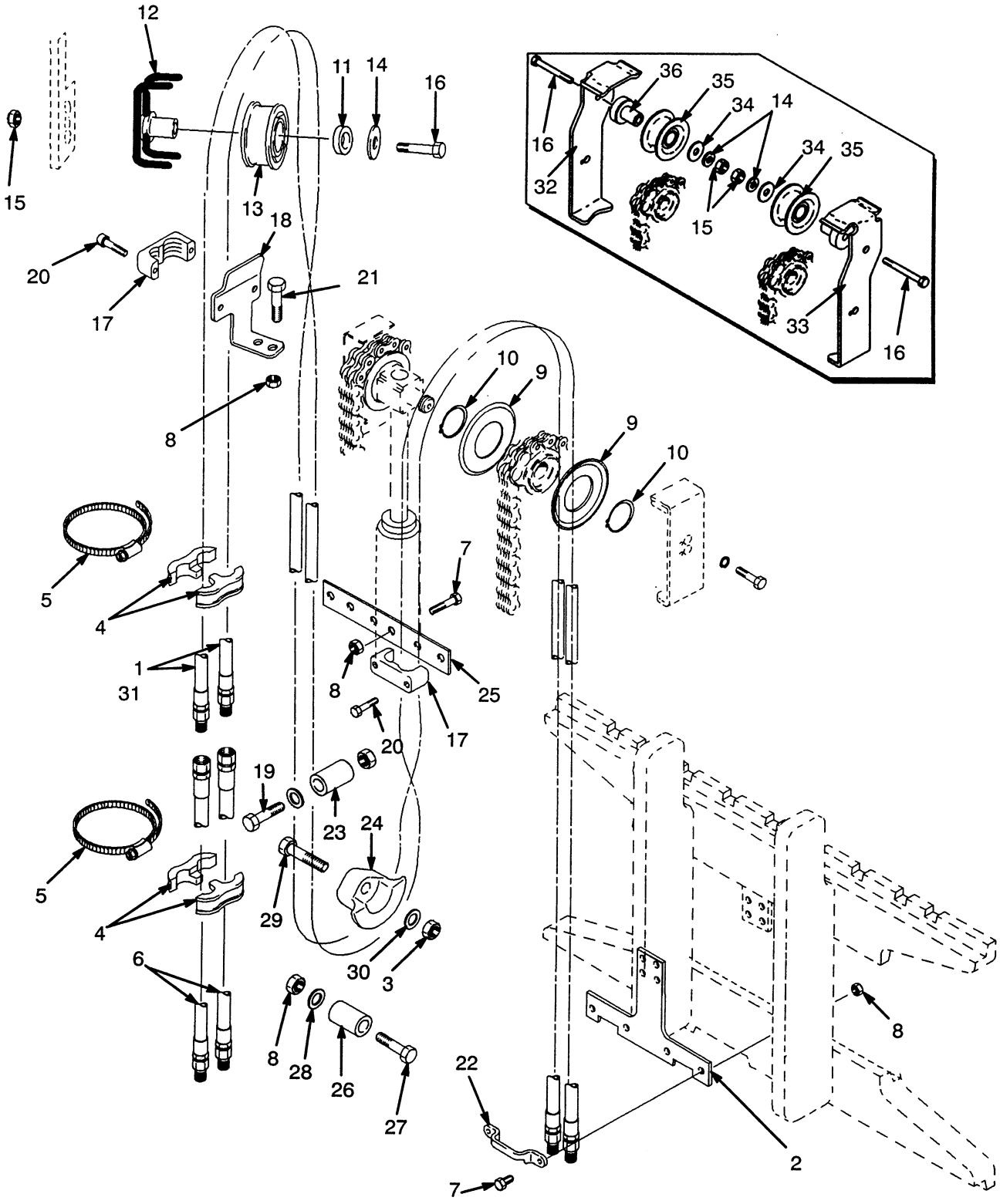
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NOTES

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HEADER HOSE (Figure 212)

THREE STAGE FULL FREE-LIFT



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HEADER HOSE

THREE STAGE FULL FREE-LIFT

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks			
		169.7 in	187.4 in	199.2 in	216.9 in
	Mast Group No.	**B508 4310**	**B508 4760**	**B508 5060**	**B508 5510**
1	Hose	[d]1358352	[d]1369625	[d]1358355	[d]1369627
1	Hose	[e]1368411	[e]1376131	[e]1376161	[e]1376164
2	Bracket	[b]1369323	[b]1369323	[b]1369323	[b]1369323
2	Bracket	[c]1381771	[c]1381771	[c]1381771	[c]1381771
		162.1 in	179.8 in	191.7 in	209.4 in
	Mast Group No.	**B563 4118**	**B563 4568**	**B563 4868**	**B563 5318**
1	Hose	[d]1358352	[d]1369625	[d]1358355	[d]1369627
1	Hose	[e]1368411	[e]1376131	[e]1376161	[e]1376164
2	Bracket	[b]1369324	[b]1369324	[b]1369324	[b]1369324
2	Bracket	[c]1381772	[c]1381772	[c]1381772	[c]1381772
31	Hose	[e]1368445	[e]1398951	[e]1396943	[e]1398595

[b] Last Used on S/N B508V-12601, B563V-4769
[c] First Used on S/N B508V-12602, B563V-4770
[d] Last Used On S/N B508V-24129, B563V-9115
[e] First Used On S/N B508V-24130, B563V-9116

KEY:
A: Three Function
B: Four Function

REF	PART NO.	NAME OF PART	QTY A	QTY B
	.....	Mast	1	1
1 [a]	.....	Hose	2	4
2 [a]	.....	Bracket	1	1
3	316826	Nut	1	2
4	1353530	Clamp	4	8
5	1360507	Clamp	2	4
6	1354922	Hose, RH	2	2
6	1354904	Hose, LH	..	2
7	136749	Capscrew	8	10
8	313828	Locknut	9	12
9	1345199	Hose Guide	2	4
10	1345204	Snap Ring	2	4

CONTINUED ON NEXT PAGE

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HEADER HOSE

THREE STAGE FULL FREE-LIFT

KEY:
A: Three Function
B: Four Function

REF		PART NO.	NAME OF PART	QTY A	QTY B
11		1360549	Spacer	1	2
12		1362387	Stubshaft	1	2
13		1381595	Hose Sheave	1	2
14		1345190	Washer	1	2
15		1390182	Nut	1	2
16		292533	Capscrew	1	2
17		1360386	Clamp	2	4
18		1354906	Bracket, RH	1	1
18		1354907	Bracket, LH	..	1
19		292534	Capscrew	1	2
20		293795	Capscrew	4	8
21		136704	Capscrew	2	4
22		1369333	Clamp	1	2
23		1360538	Tube	1	2
24		1360536	Hose Guide (RH)	1	1
24		1360537	Hose Guide (LH)	..	1
25		1353464	Plate	1	1
26		1354961	Hose Restraint	1	2
27		214364	Capscrew	1	2
28		320158	Washer	1	2
29		287860	Capscrew	1	2
30		320160	Washer	1	2
31		.....	Hose	..	2
32		1395291	Hose Guide Bracket RH	1	1
33	e	1395292	Hose Guide Bracket LH	..	1
34	e	1396407	Spacer	1	2
35	e	1345190	Sheave	1	2
36	e	1396406	Stubshaft	1	2

a ☞ Table Above

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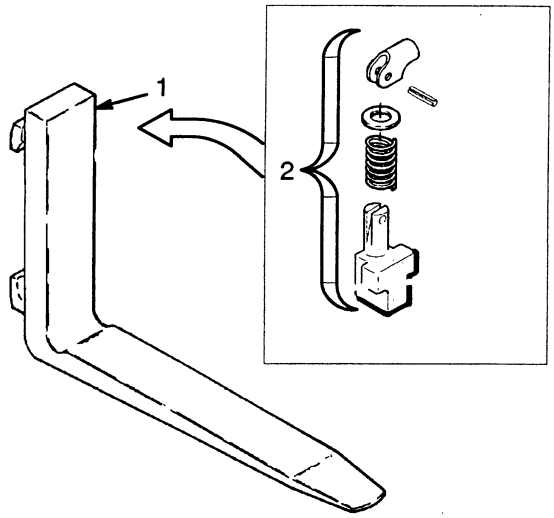
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NOTES

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FORKS (Figure 213)

THREE STAGE FULL FREE-LIFT



H45-55XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
1	Fork	125 mm x 40 mm	100 mm x 40 mm	125 mm x 40 mm	
	762 mm (30 in)	1326660	384210		2
	914 mm (36 in)	1326661	384211	1338087	2
	1067 mm (42 in)	1326663	384213	1338088	2
	1219 mm (48 in)	1326664	384214	1338089	2
	1372 mm (54 in)	1326665	384215		2
	1524 mm (60 in)	1326666	384216		2
2	Latch	369795	369795	369795	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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FORKS
THREE STAGE FULL FREE-LIFT MAST
(Figure 213 Continued)

H60-65XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
1	Fork	100 mm x 45 mm	125 mm x 50 mm	180 mm x 45 mm	
	914 mm (36 in)	1333018	367419		2
	1067 mm (42 in)	1333020	367420		2
	1207 mm (42.5 in)			1338098	2
	1219 mm (48 in)	1333021	367421		2
	1372 mm (54 in)		367422	1332745	2
	1524 mm (60 in)		367423		2
	1829 mm (72 in)	1333024	367424		2
2	Latch	369796	369796	369796	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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NOTES

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TWO STAGE FULL FREE-LIFT

CARRIAGE (Figure 222)
TWO STAGE FULL FREE-LIFT
FOUR ROLLER ..... Page 423

CARRIAGE (Figure 223)
TWO STAGE FULL FREE-LIFT
SIX ROLLER ..... Page 424

FORKS (Figure 228)
TWO STAGE FULL FREE-LIFT ..... Page 432

FREE LIFT (Figure 217)
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FREE LIFT
TWO STAGE FULL FREE-LIFT
(Figure 217 Continued) ..... Page 412

FREE-LIFT CYLINDER (Figure 220)
TWO STAGE FULL FREE-LIFT ..... Page 416

HEADER HOSE (Figure 227)
TWO STAGE FULL FREE-LIFT ..... Page 428

INNER MAST (Figure 215)
TWO STAGE FULL FREE-LIFT ..... Page 406

LOAD BACKREST EXTENSION (Figure 224)
TWO STAGE FULL FREE-LIFT ..... Page 425

MAIN CYLINDER (Figure 218)
TWO STAGE FULL FREE-LIFT
LEFT HAND ..... Page 414

MAIN CYLINDER (Figure 219)
TWO STAGE FULL FREE-LIFT
RIGHT HAND ..... Page 415

MAIN LIFT (Figure 216)
TWO STAGE FULL FREE-LIFT ..... Page 408

MAST INSTALLATION (Figure 225)
TWO STAGE FULL FREE-LIFT ..... Page 426

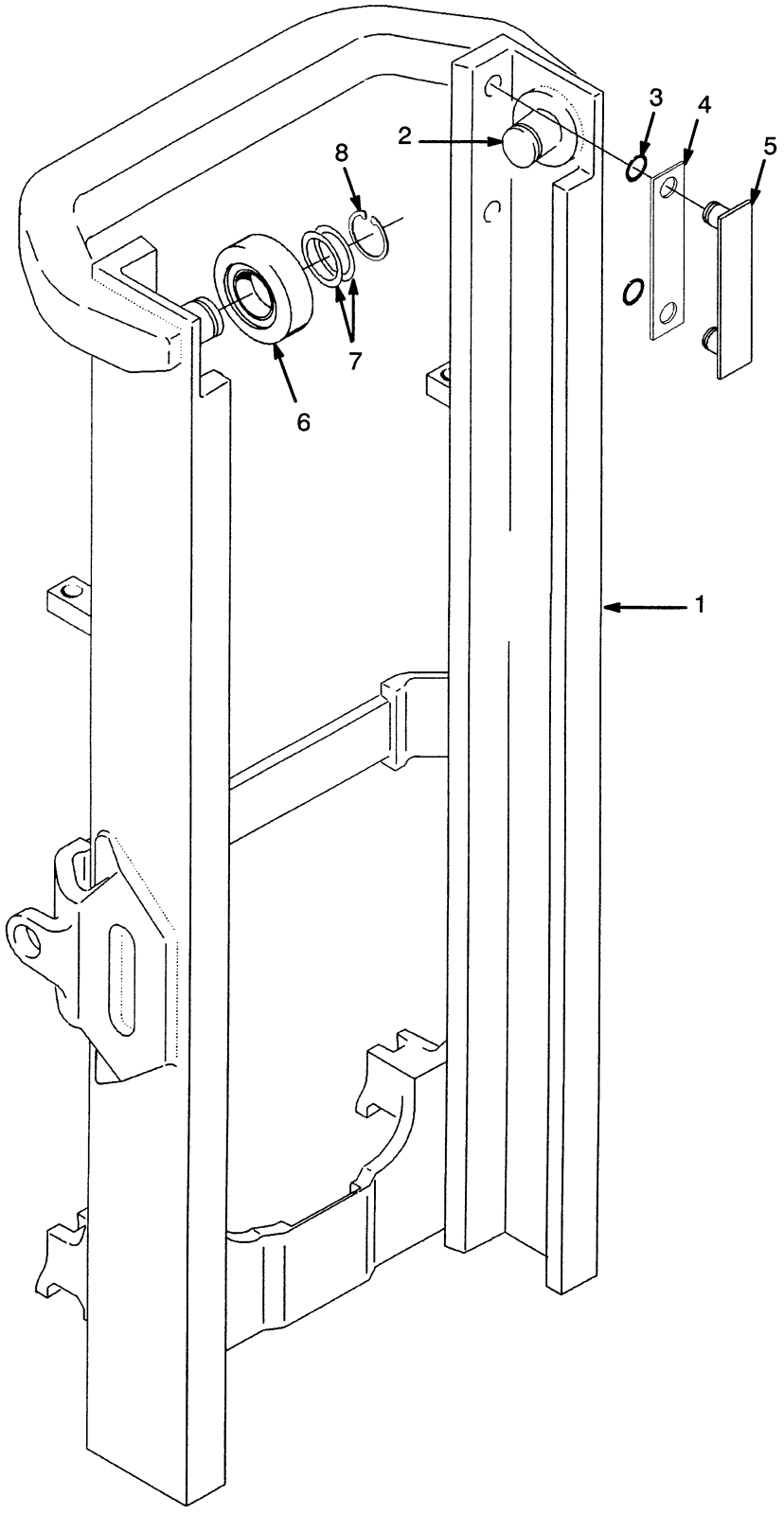
MAST INSTALLATION (Figure 226)
TWO STAGE FULL FREE-LIFT ..... Page 427

OUTER MAST (Figure 214)
TWO STAGE FULL FREE-LIFT ..... Page 404

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OUTER MAST (Figure 214)

TWO STAGE FULL FREE-LIFT



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OUTER MAST

TWO STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
1	Outer Mast	1341005	1341008	1341013

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
1	Outer Mast	1341005	1341008	1341013

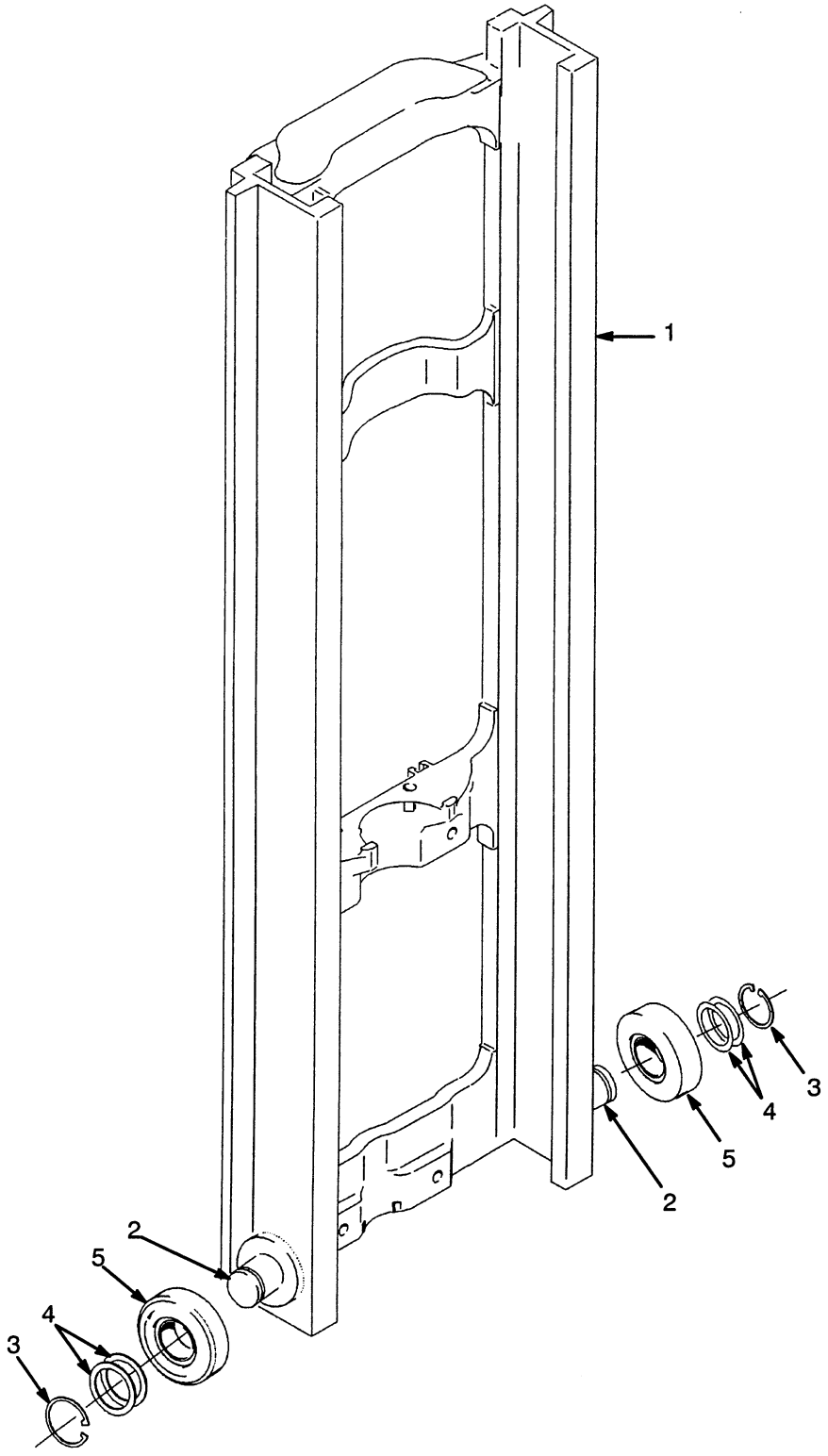
REF	PART NO.	NAME OF PART	QTY
a	....	Mast	1
1 a	....	Outer Mast	1
2	1345216	Stub Shaft	2
3	104506	O-Ring	4
4	131716	Shim (0.020 in)	4
5	215211	Bearing Strip	2
6	1395168	Load Roller ("A" Standard)	2
6	1333396	Load Roller ("B" 0.76 mm)	2
6	1333397	Load Roller ("C" 1.52 mm)	2
7	129387	Shim (0.020 in)	AR
8	58901	Snap Ring	2

a ☞ Table Above

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INNER MAST (Figure 215)

TWO STAGE FULL FREE-LIFT



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INNER MAST

TWO STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
1	Inner Mast	1342474	1342477	1342482

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
1	Inner Mast	1342474	1342477	1342482

REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
1	a	.....	Inner Mast	1
2		1345216	Stub Shaft	2
3		58901	Snap Ring	2
4		129387	Shim	AR

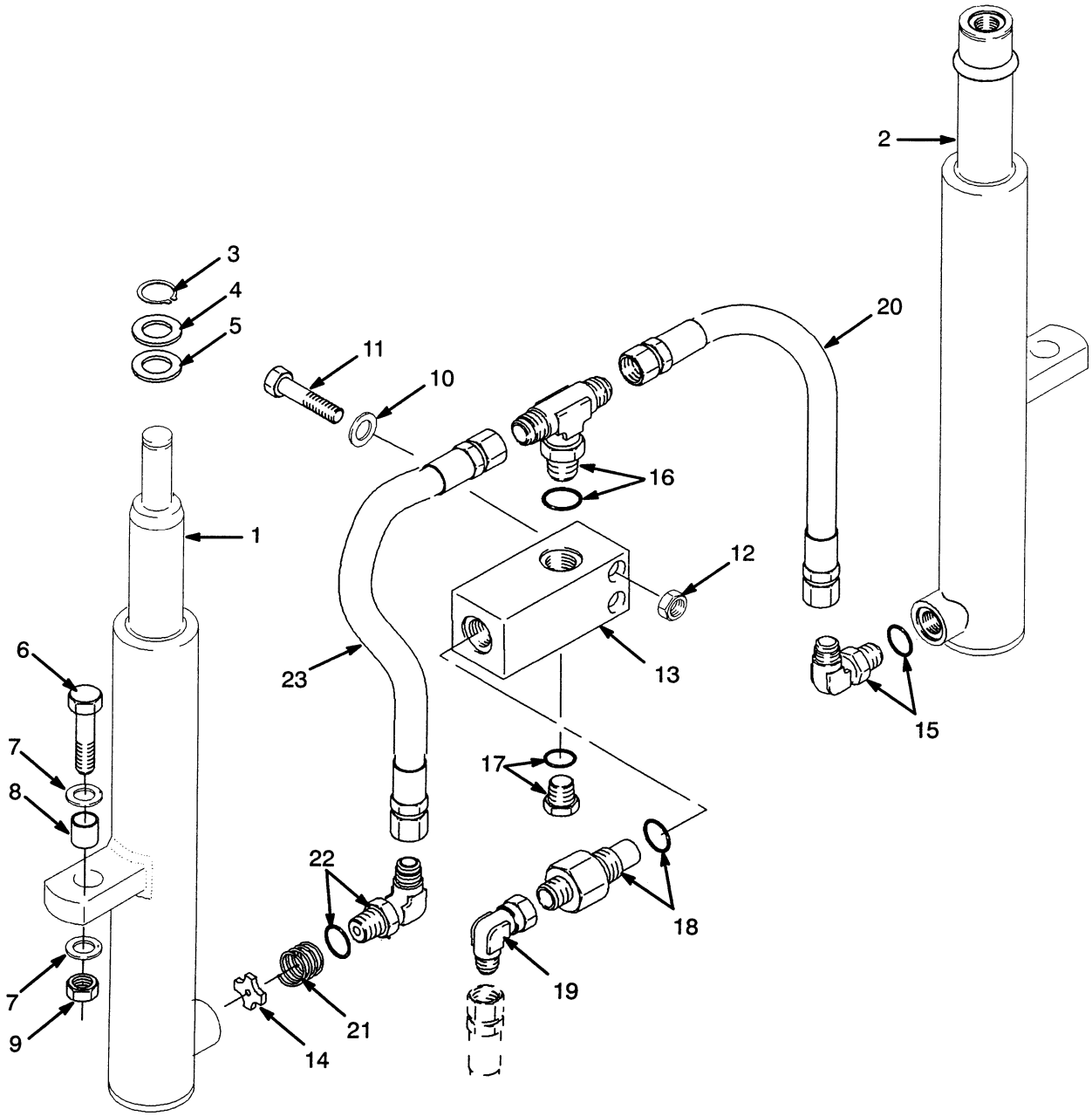
REF	PART NO.	NAME OF PART	QTY
5	1395168	Load Roller ("A" Standard)	2
5	1333396	Load Roller ("B" 0.76 mm)	2
5	1333397	Load Roller ("C" 1.52 mm)	2

a ☞ Table Above

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MAIN LIFT (Figure 216)

TWO STAGE FULL FREE-LIFT



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MAIN LIFT

TWO STAGE FULL FREE-LIFT

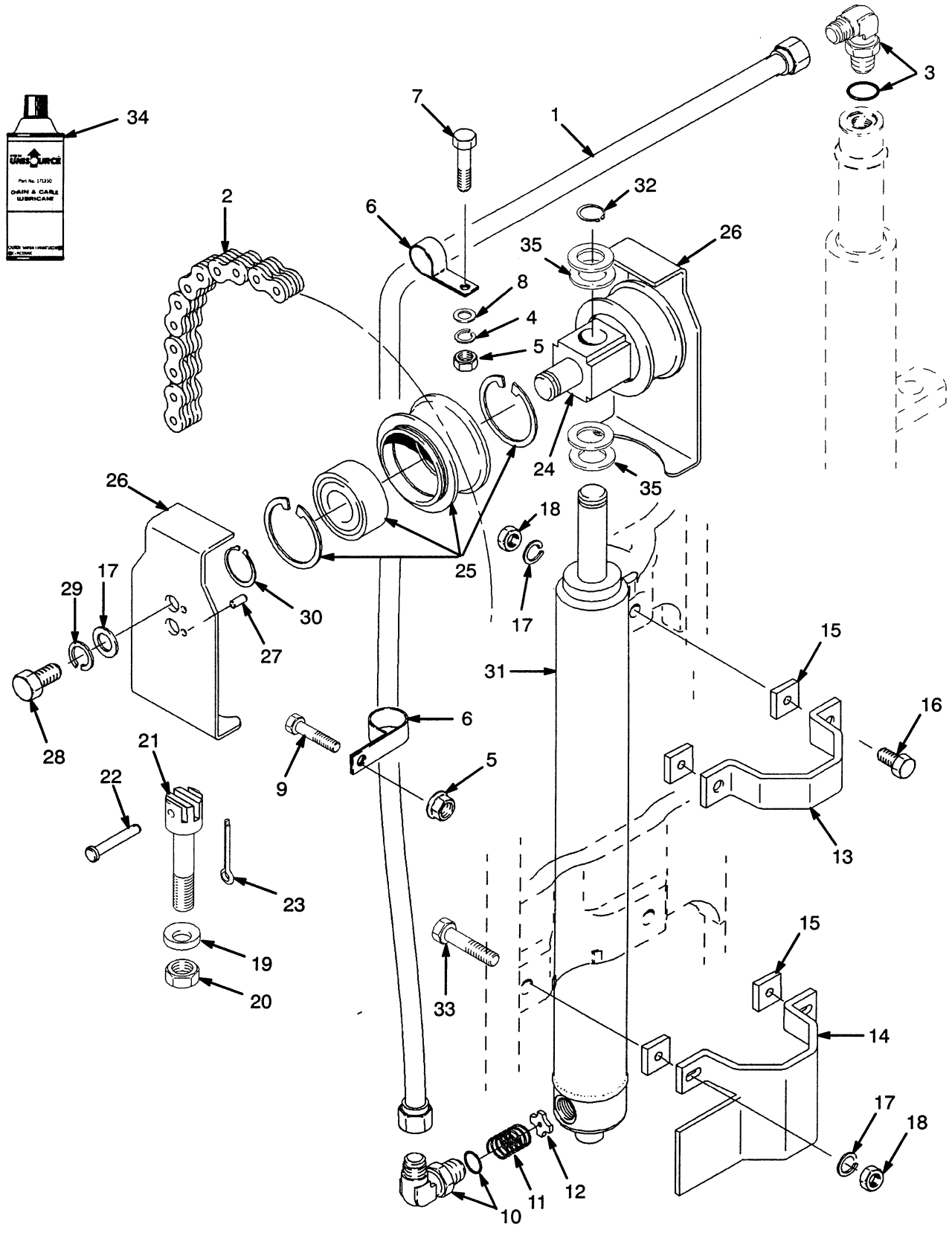
REF		PART NO.	NAME OF PART	QTY
1		.....	Cylinder, RH	1
			☞ Figure 219	
2		.....	Cylinder, LH	1
			☞ Figure 218	
3		131358	Snap Ring	1
4		1333382	Washer	1
5		1354915	Washer	AR
5		1354916	Washer	AR
5		1354917	Washer	AR
6		292532	Capscrew	2
7		296422	Washer	4
8		323090	Spacer	2
9		300937	Nut	2
10		320157	Lockwasher	2
11		214364	Capscrew	2
12		313828	Nut	2
13	a	1333392	Valve Housing	1
13		1379687	Valve Housing	1
14		357749	Washer	1
15		16560	Fitting	1
15		16485	O-Ring	1
16		16578	Fitting	1
16		16485	O-Ring	1
17	a	14603	Fitting	1
17	a	16486	O-Ring	1
18	b	2309766	Lowering Control Valve	1
18	c	316306	Lowering Control Valve	1
18		16982	O-Ring	1
19		16882	Fitting	1
20		1345403	Hose	1
21		337179	Spring	1
22		189595	Fitting	1
22		16485	O-Ring	1
23		1462551	Hose	1

a Optional
b H45-55XM
c H60-65XM

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FREE LIFT (Figure 217)

TWO STAGE FULL FREE-LIFT



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FREE LIFT
TWO STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
1	Tube	1345311	1345314	1345319
2	Chain	231082[a] 197345[b]	161059[a] 180177[b]	180217[a] 182343[b]

REF		PART NO.	NAME OF PART	QTY
	c	.....	Mast	1
1	c	.....	Tube	1
2	c	.....	Chain	2
3		1380036	Fitting	1
3		16485	O-Ring	1
4		292682	Lockwasher	1
5		316826	Nut	2
6		178119	Clamp	2
7		296028	Capscrew	1
8		320159	Washer	1
9		136985	Capscrew	1
10		1354956	Fitting	1
10		16485	O-Ring	1
11		154355	Spring	1
12		356505	Washer	1
13		1465504	Clamp	1
14		1354967	Bracket	1
15	d	1354902	Spacer	4
16		292529	Capscrew	2
17		320161	Washer	6
18		300937	Nut	4
19		297649	Base Ring	2
20		161003	Nut	2
21	e	320313	Chain Anchor	2
21	f	1369357	Chain Anchor	2
22		323161	Pin	2
23		15200	Cotter Pin	2
24	g	1337905	Crosshead	1
24	h	1378690	Crosshead	1
25	g	.....	Chain Sheave	2
25		1354911	Sheave	1
25		37752	Snap Ring	2
25		231020	Bearing	1
25	h	1379682	Chain Sheave	2
25		1378692	Sheave	1
25		37752	Snap Ring	1
25		1378699	Bearing	1
26		1395285	Chain Guard	2
27		302461	Pin	2
28		292527	Capscrew	2
29		292683	Lockwasher	2
30		304526	Snap Ring	3
31		.....	Free-Lift Cylinder ☞ Figure 220	1
32		131358	Snap Ring	1
33		287837	Capscrew	2
34		171350	Chain Lubricant	AR
35	b	1362433	Spacer	4

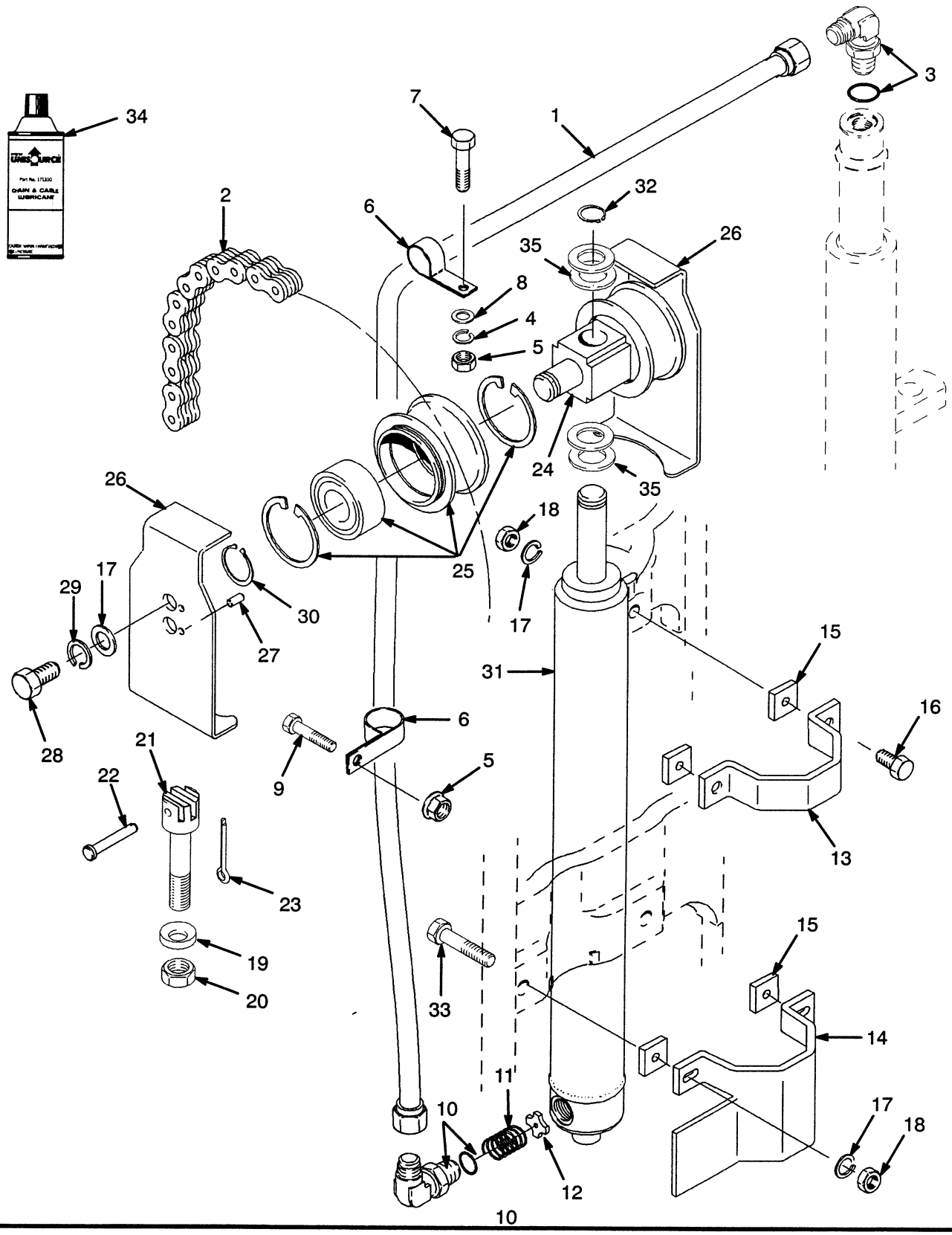
a Last Used On Mast S/N B509B-4069
b First Used On Mast S/N B509B-4070, B509V-1501
c ☞ Table Above
d H60-65XM
e Last Used On Mast S/N B509B-1959
f First Used On Mast S/N B509B-1960
g Last Used On Mast S/N B509V-1666
h First Used On Mast S/N B509V-1667

CONTINUED ON NEXT PAGE

FREE LIFT

TWO STAGE FULL FREE-LIFT

(Figure 217 Continued)



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FREE LIFT
TWO STAGE FULL FREE-LIFT
(Figure 217 Continued)

H60-65XM

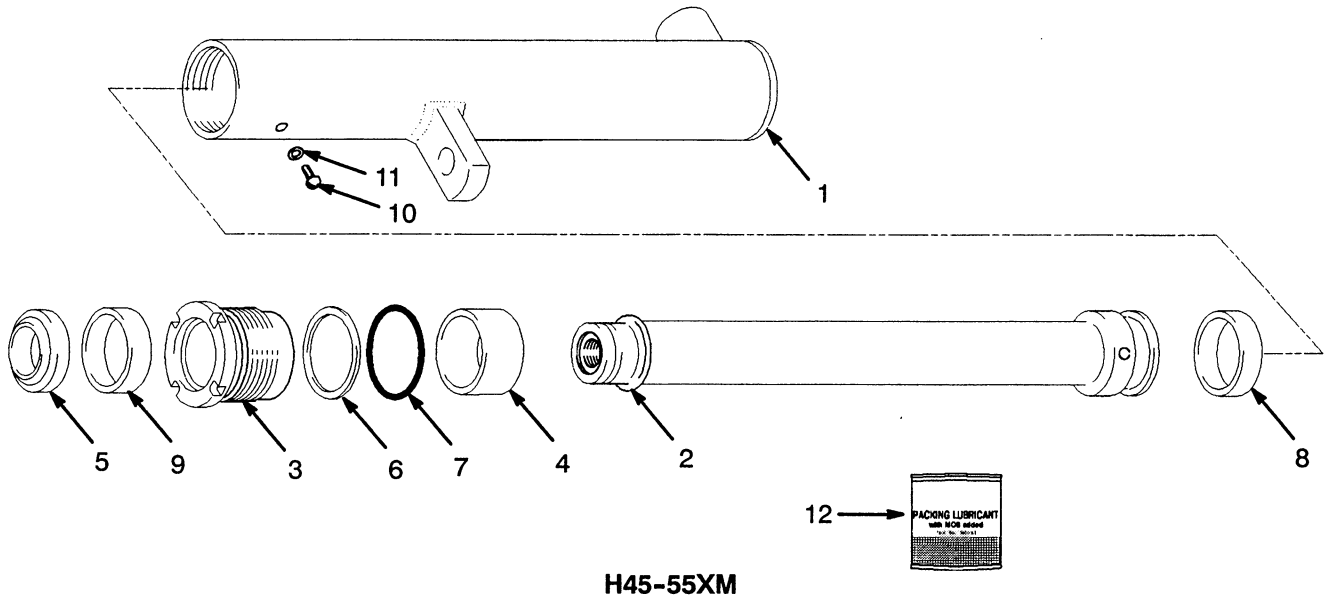
Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
1	Tube	1345311	1345314	1345319
2	Chain	1342373[a] 1342374[b]	1342376[a] 1342377[b]	1342118[a] 1342380[b]

REF		PART NO.	NAME OF PART	QTY
	c	.....	Mast	1
1	c	.....	Tube	1
2	c	.....	Chain	2
3		1380036	Fitting	1
3		16485	O-Ring	1
4		292682	Lockwasher	1
5		316826	Nut	2
6		178119	Clamp	2
7		296028	Capscrew	1
8		320159	Washer	1
9		136985	Capscrew	1
10		1354956	Fitting	1
10		16485	O-Ring	1
11		154355	Spring	1
12		356505	Washer	1
13		1465504	Clamp	1
14		1354967	Bracket	1
15		1354902	Spacer	4
16		292530	Capscrew	2
17		320161	Washer	6
18		300937	Nut	4
19		297649	Base Ring	2
20		161003	Nut	2
21	d	1333328	Chain Anchor	2
21	e	1369356	Chain Anchor	2
22		323161	Pin	2
23		15200	Cotter Pin	2
24	f	1337905	Crosshead	1
24	g	1378690	Crosshead	1
25	f	.....	Chain Sheave	2
25		1345201	Sheave	1
25		37752	Snap Ring	2
25		231020	Bearing	1
25	g	1379683	Chain Sheave	2
25		1378693	Sheave	1
25		37752	Snap Ring	1
25		1378699	Bearing	1
26		1360544	Chain Guard	2
27		302461	Pin	2
28		292527	Capscrew	2
29		292683	Lockwasher	2
30		304526	Snap Ring	3
31		.....	Free-Lift Cylinder ☞ Figure 220	1
32		131358	Snap Ring	1
33		287837	Capscrew	2
34		171350	Chain Lubricant	AR
35	b	1362433	Spacer	4

a Last Used On Mast S/N B564B-1854
b First Used On Mast S/N B564B-1855, B564V-1501
c ☞ Table Above
d Last Used On Mast S/N B564B-1529
e First Used On Mast S/N B564B-1530
f Last Used On Mast S/N B564V-1650
g First Used On Mast S/N B564V-1651

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MAIN CYLINDER (Figure 218)
TWO STAGE FULL FREE-LIFT
LEFT HAND



H45-55XM

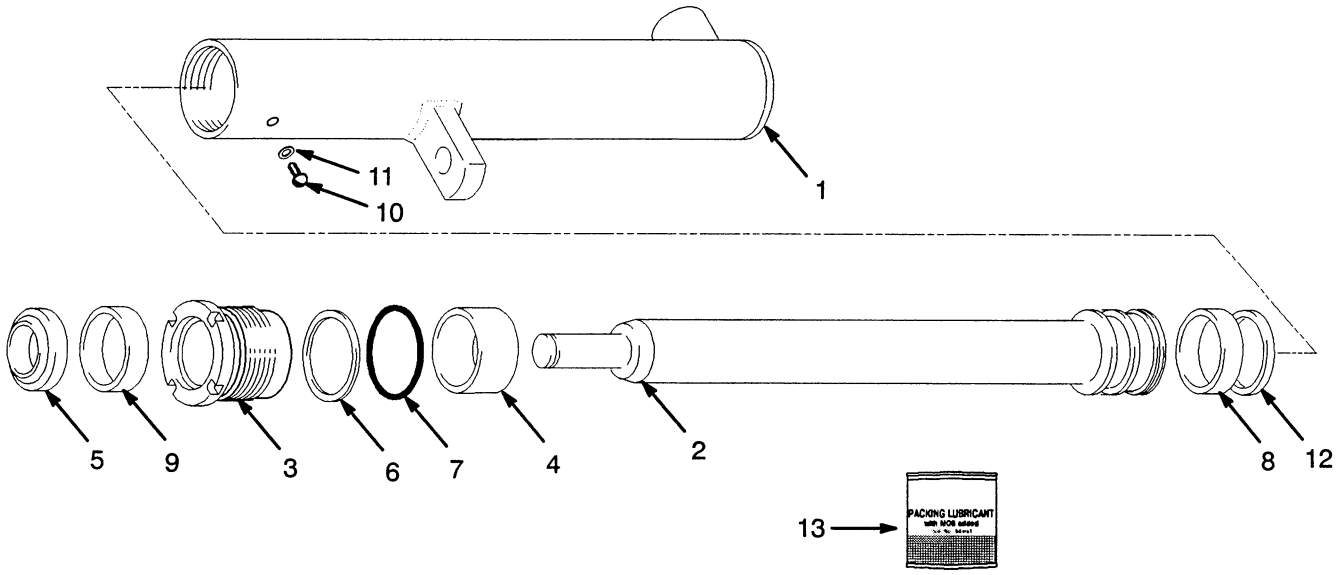
Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
	Group # Cylinder (LH)	8600706 1342222	8600709 1342225	8600714 1342230
1	Shell	1355910	1355928	1355958
2	Rod	1355911	1355929	1355959
H60-65XM				
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
	Group # Cylinder (LH)	8600906 1342280	8600909 1342283	8600914 1342288
1	Shell	1355910	1355928	1355958
2	Rod	1355911	1355929	1355959

REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
	a	.....	Main Cylinder (LH)	1
1	a	.....	Shell	1
2	a	.....	Rod	1
3		1355284	Retainer	1
4	b	1356058	Spacer	1
5	c	1319668	Rod Wiper	1
6	c	147972	Back-Up Ring	1
7	c	59229	O-Ring	1
8	c	1356747	Wear Ring	1
9	c	1356749	Rod Seal	1
10		295649	Screw	1
11	c	190887	Seal	1
12		186061	Packing Lubricant	AR

a ☞ Table Above
b Mast S/N B564 Only
c Included In Seal Kit 1358963

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MAIN CYLINDER (Figure 219)
TWO STAGE FULL FREE-LIFT
RIGHT HAND



H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
	Group # Cylinder (RH)	8600806 1356759	8600809 1356762	8600814 1356767
1	Shell	1356783	1356786	1356791
2	Rod	1358937	1358940	1358945
	H60-65XM			
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
	Group # Cylinder (RH)	8601006 1342251	8601009 1361276	8601014 1361281
1	Shell	1356783	1356786	1356791
2	Rod	1358937	1358940	1358945

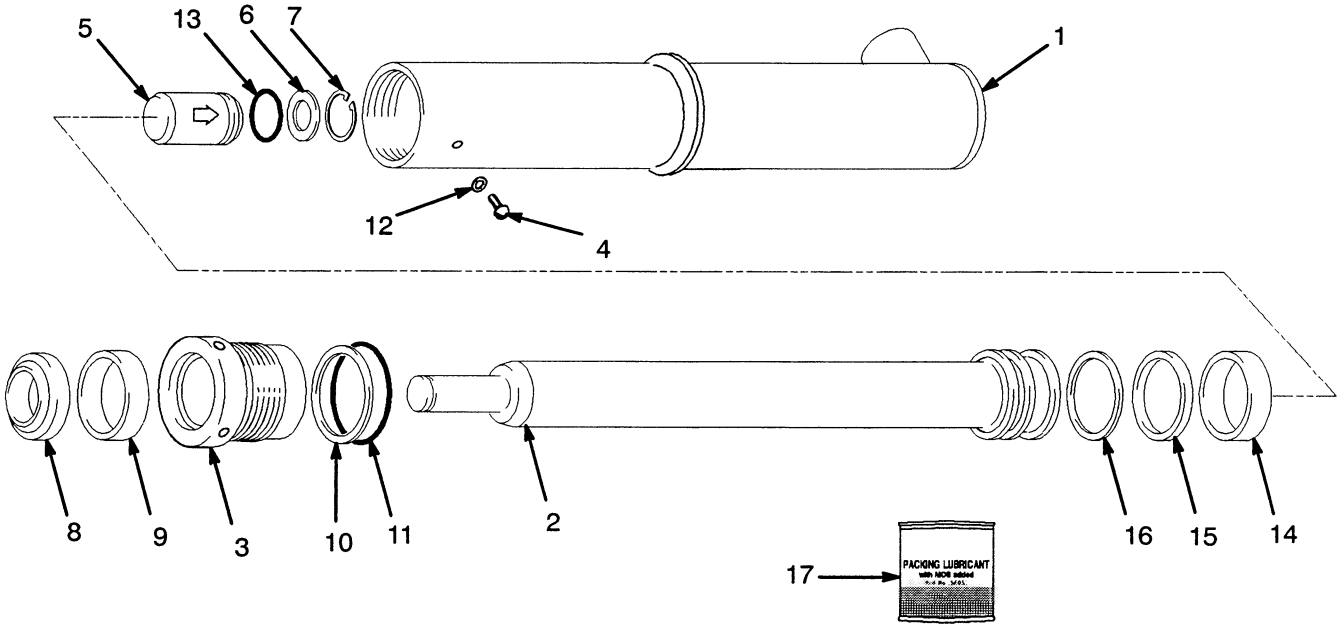
REF		PART NO.	NAME OF PART	QTY
	a	.....	Mast	1
	a	.....	Main Cylinder (RH)	1
1	a	.....	Shell	1
2	a	.....	Rod	1
3		1355284	Retainer	1
4	b	1356058	Spacer	1
5	c	1319668	Rod Wiper	1
6	c	147972	Back-Up Ring	1
7	c	59229	O-Ring	1
8	c	1356747	Wear Ring	1
9	c	1356749	Rod Seal	1
10		295649	Screw	1
11	c	190887	Seal	1
12	c	1356748	Piston Ring	1
13		186061	Packing Lubricant	AR

a ☞ Table Above
b Mast S/N B564 Only
c Included In Seal Kit 1360142

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FREE-LIFT CYLINDER (Figure 220)

TWO STAGE FULL FREE-LIFT



FREE-LIFT CYLINDER

TWO STAGE FULL FREE-LIFT

H45-55XM

Last Used On Mast S/N B509B-4069

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
	Group # Cylinder	8601106 1342045	8601109 1342048	8601114 1342053
1	Shell	1356556	1356565	1356580
2	Rod	1356557	1356566	1356581

Used On Mast S/N B509B-4070, B509V-1501 Thru S/N B509V-3231

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
	Group # Cylinder	8603406 2309480	8603409 2303951	8603414 2303455
1	Shell	2303871	2311434	2307580
2	Rod	2306774	2311141	2304977

First Used On Mast S/N B509V-3232

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
	Group # Cylinder	8602406 1366733	8602409 1366736	8602414 1366741
1	Shell	2303871	2311434	2307580
2	Rod	1356560	1366569	1356584

CONTINUED ON NEXT PAGE

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FREE-LIFT CYLINDER

TWO STAGE FULL FREE-LIFT

H45-55XM

KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	c	.....	Mast	1	1
	c	.....	Free-Lift Cylinder	1	1
1	c	.....	Shell	1	1
2	c	.....	Rod	1	1
3		1356292	Retainer	1	..
3		1356661	Retainer	..	1
4	a	295649	Screw	1	1
4	b	1361302	Screw	1	1
5		257913	Check Valve	1	1
6		297531	Washer	1	1
7		187388	Snap Ring	1	1
8	de	2013099	Rod Wiper	1	1
9	de	1358970	Rod Seal	1	1
10	d	147973	Back-Up Ring	1	..
10	e	164840	Back-Up Ring	..	1
11	d	90263	O-Ring	1	..
11	e	15880	O-Ring	..	1
12	de	190887	Seal	1	1
13	de	39348	O-Ring	1	1
14	d	1358972	Wear Ring	1	..
14	e	636941	Wear Ring	..	1
15	d	2013088	Seal	1	..
15	e	309062	Seal	..	1
16	d	2013089	Back-Up Ring	1	..
16	e	637565	Back-Up Ring	..	1
17		186061	Packing Lubricant	AR	AR

a Last Used On Mast S/N B509B-4069 & B564B-1854
b First Used On Mast S/N B509B-4070, B509V-1501, B564V-1501
c ☞ Table Above
d Included In Seal Kit 1358969
e Included In Seal Kit 1356662

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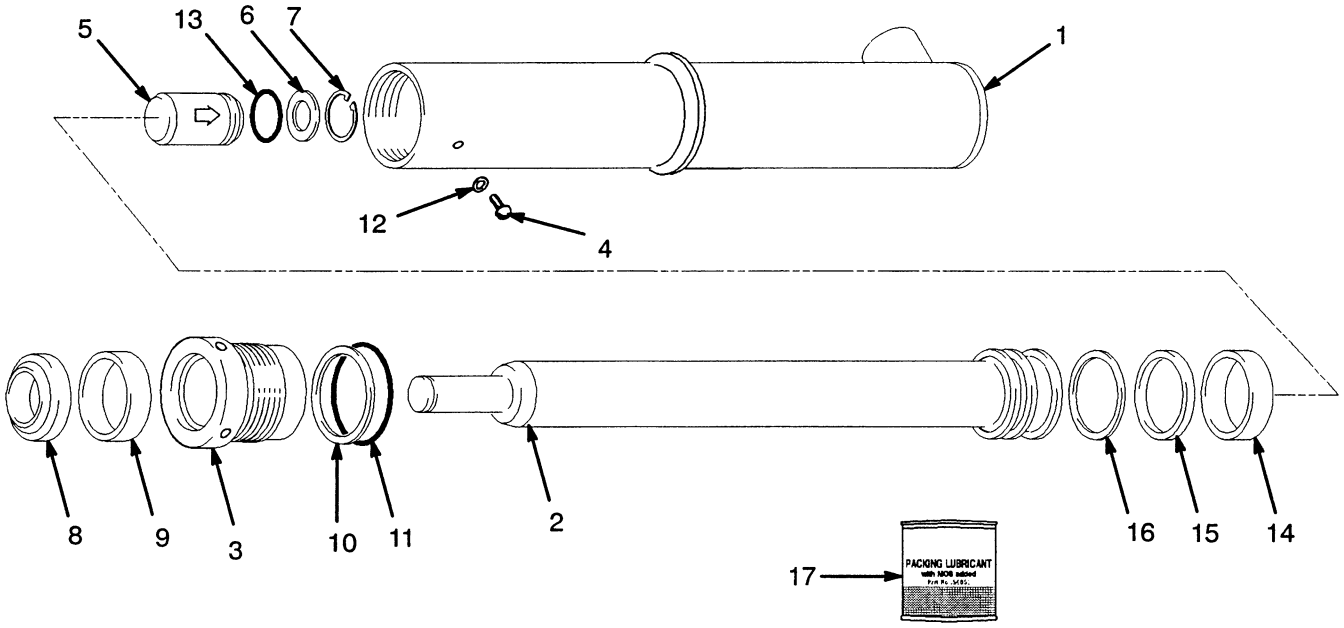
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NOTES

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FREE-LIFT CYLINDER (Figure 221)

TWO STAGE FULL FREE-LIFT



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FREE-LIFT CYLINDER

TWO STAGE FULL FREE-LIFT

H60-65XM

Last Used On Mast S/N B564B-1854

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
	Group # Cylinder	8601206 1341675	8601209 1341678	8601214 1341683
1	Shell	1356675	1356696	1356064
2	Rod	1356676	1356697	1356065

Used On Mast S/N B564B-1855, B564V-1501 Thru S/N B564V-2525

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
	Group # Cylinder	8603506 2305335	8603509 2304960	8603514 2307561
1	Shell	2304592	2304575	2304802
2	Rod	2309221	2310912	2306235

First Used On Mast S/N B564V-2526

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
	Group # Cylinder	8602506 1369548	8602509 1371601	8602514 1371606
1	Shell	2304592	2304575	2304802
2	Rod	1356679	1356688	1356068

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FREE-LIFT CYLINDER

TWO STAGE FULL FREE-LIFT

H60-65XM

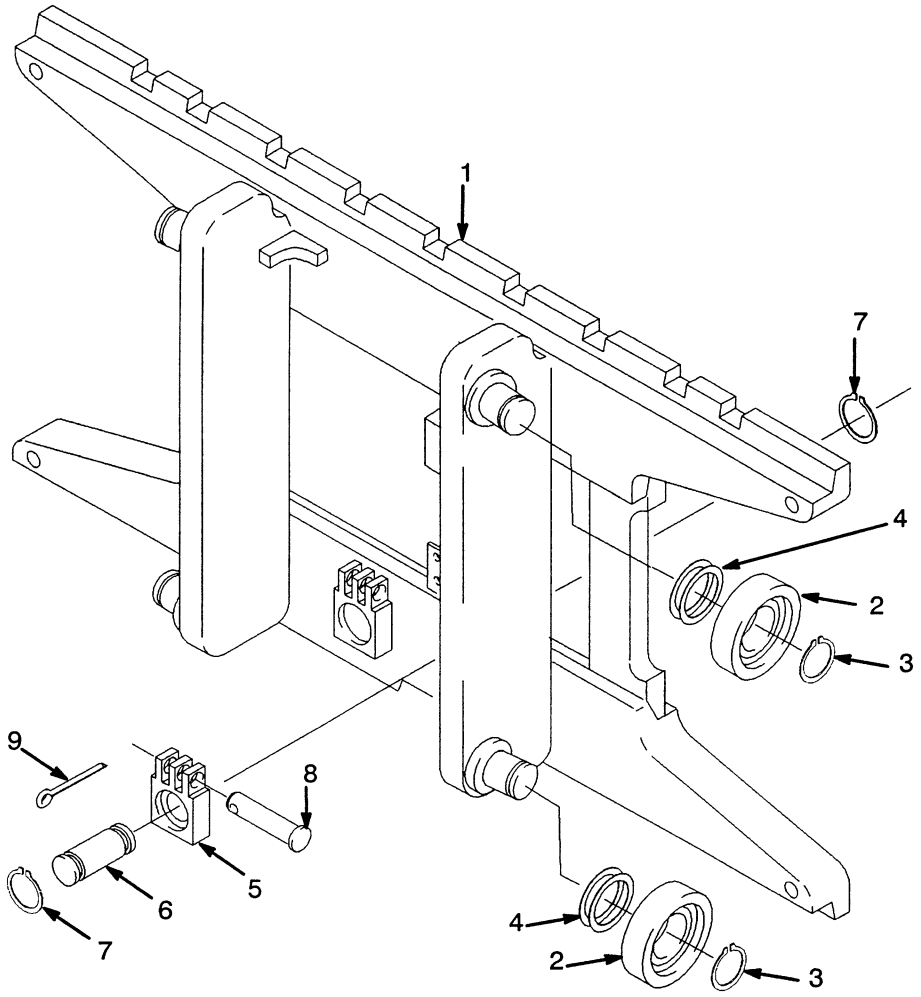
KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
	c	.....	Mast	1	1
	c	.....	Free-Lift Cylinder	1	1
1	c	.....	Shell	1	1
2	c	.....	Rod	1	1
3		1356292	Retainer	1	..
3		1356661	Retainer	..	1
4	a	295649	Screw	1	1
4	b	1361302	Screw	1	1
5		257913	Check Valve	1	1
6		297531	Washer	1	1
7		187388	Snap Ring	1	1
8	de	2013099	Rod Wiper	1	1
9	de	1358970	Rod Seal	1	1
10	d	147973	Back-Up Ring	1	..
10	e	164840	Back-Up Ring	..	1
11	d	90263	O-Ring	1	..
11	e	15880	O-Ring	..	1
12	de	190887	Seal	1	1
13	de	39348	O-Ring	1	1
14	d	1358972	Wear Ring	1	..
14	e	636941	Wear Ring	..	1
15	d	2013088	Seal	1	..
15	e	309062	Seal	..	1
16	d	2013089	Back-Up Ring	1	..
16	e	637565	Back-Up Ring	..	1
17		186061	Packing Lubricant	ARA	R

a Last Used On Mast S/N B509B-4069 & B564B-1854
b First Used On Mast S/N B509B-4070, B509V-1501, B564B-1855 & B564V-1501
c ☞ Table Above
d Included In Seal Kit 1358969
e Included In Seal Kit 1356662

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CARRIAGE (Figure 222)
TWO STAGE FULL FREE-LIFT
FOUR ROLLER



	H45-55XM	H60-65XM
Group No.	8500005	8500006
Carriage	1343839	1343840

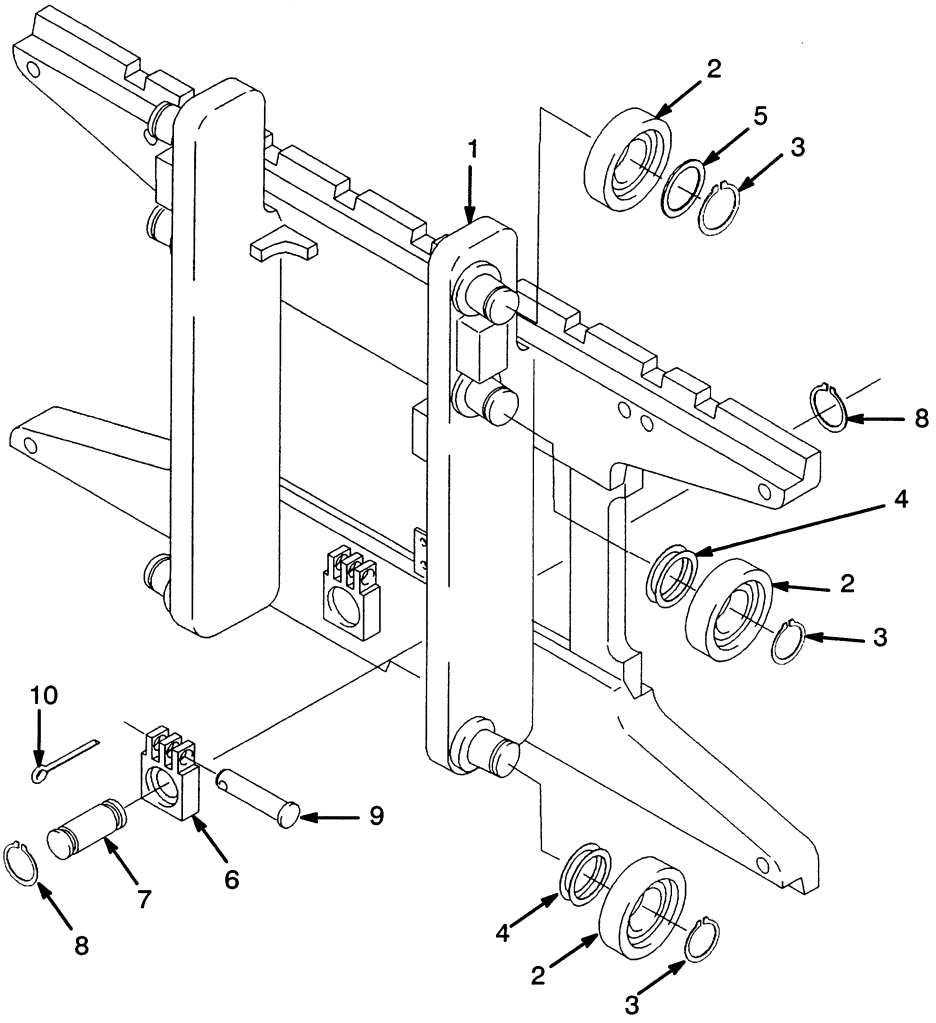
KEY:
A: H45-55XM
B: H60-65XM

REF	PART NO.	NAME OF PART	QTY A	QTY B
a	.....	Carriage Assembly	1	..
a	.....	Carriage Assembly	..	1
1	1345225	Carriage	1	..
1	1345226	Carriage	..	1
1	1345264	Stubshaft	4	4
2	1345218	Load Roller	4	4
2	1395172	Load Roller ("A" Standard) ..	4	4
2	1345219	Load Roller ("B" 0.76 mm) ..	4	4
2	1345220	Load Roller ("C" 1.52 mm) ..	4	4
3	12891	Snap Ring	4	4
4	1345263	Shim	AR	AR
5	1369345	Chain Anchor	2	..
5	1369344	Chain Anchor	..	2
6	317735	Pin	2	2
7	131358	Snap Ring	4	4
8	323161	Pin	2	2
9	15200	Cotter Pin	2	2

a ☞ Table Above

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CARRIAGE (Figure 223)
TWO STAGE FULL FREE-LIFT
SIX ROLLER



	H45-55XM	H60-65XM
Group No.	8500011	8500012
Carriage	1343844	1343845

KEY:
A: H45-55XM
B: H60-65XM

REF	PART NO.	NAME OF PART	QTY A	QTY B
a	.....	Carriage Assembly	1	..
a	.....	Carriage Assembly	..	1
1	1345239	Carriage	1	..
1	1345240	Carriage	..	1
1	1345264	Stubshaft	6	6
2	1345218	Load Roller	4	4
2	1395172	Load Roller ("A" Standard) ..	6	6
2	1345219	Load Roller ("B" 0.76 mm) ..	6	6
2	1345220	Load Roller ("C" 1.52 mm) ..	6	6
3	12891	Snap Ring	6	6

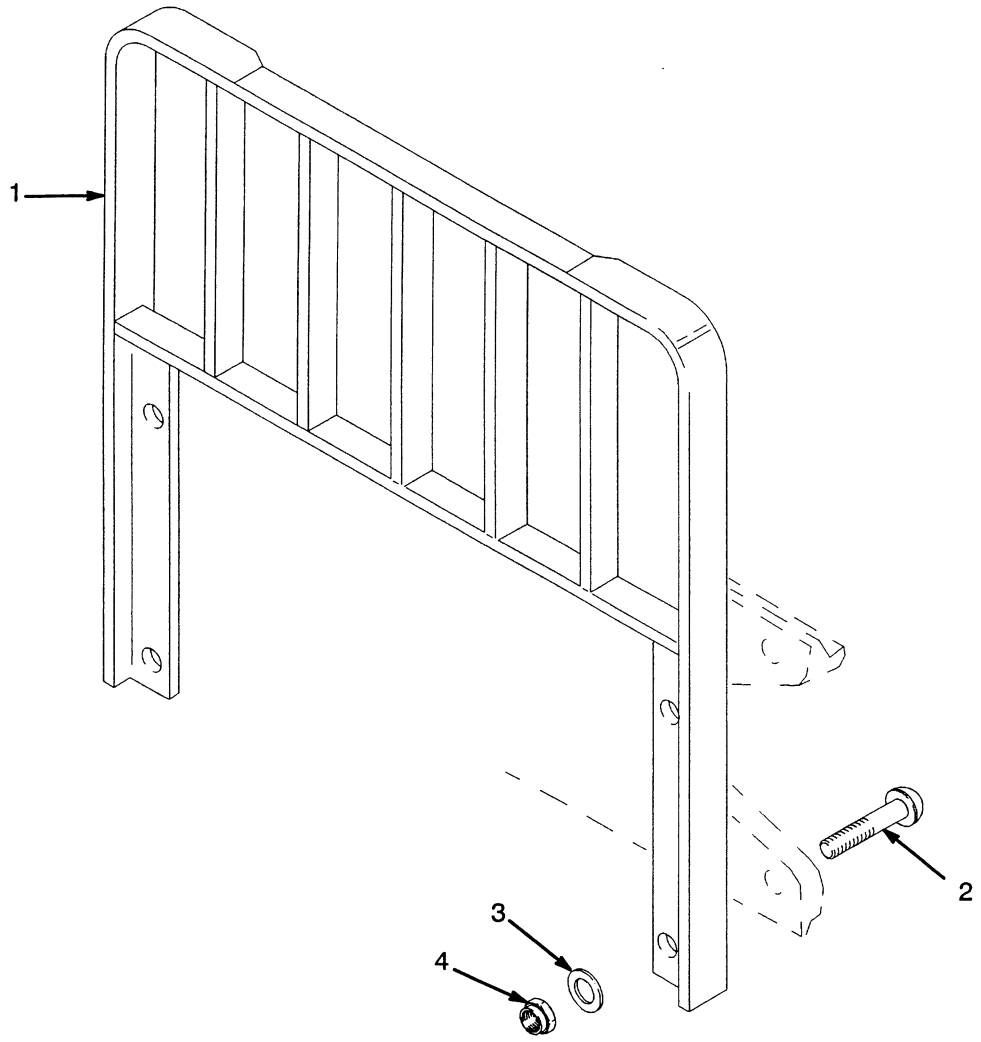
REF	PART NO.	NAME OF PART	QTY A	QTY B
4	1345263	Shim	AR	AR
5	366116	Spacer	2	2
6	1369345	Chain Anchor	2	..
6	1369344	Chain Anchor	..	2
7	317735	Pin	2	2
8	131358	Snap Ring	4	4
9	323161	Pin	2	2
10	15200	Cotter Pin	2	2

a ☞ Table Above

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LOAD BACKREST EXTENSION (Figure 224)

TWO STAGE FULL FREE-LIFT



KEY:
A: H45-55XM
B: H60-65XM

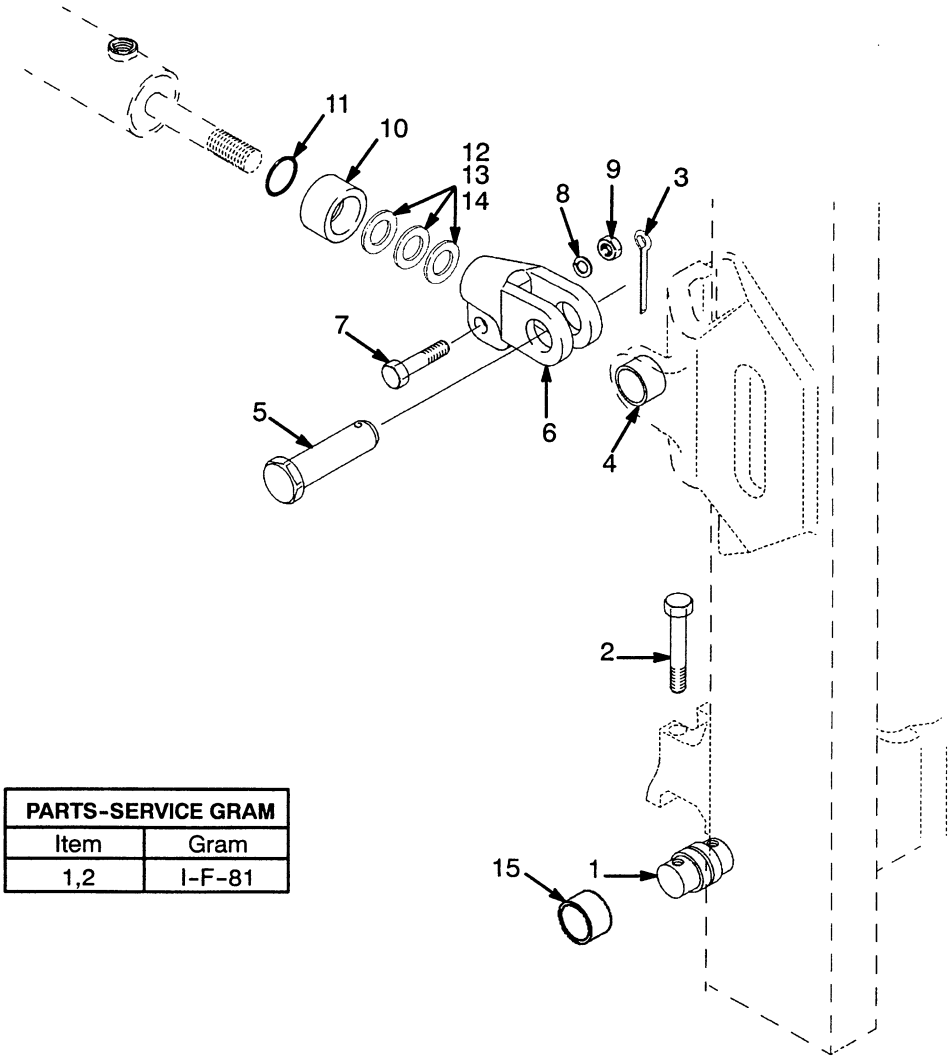
REF		PART NO.	NAME OF PART	QTY A	QTY B
1		1338642	Load Backrest Extension	1	..
1		1338645	Load Backrest Extension	..	1
1	a	1345267	Load Backrest Extension	..	1
2		1343990	Capscrew	4	..
2		1354923	Capscrew	..	4
3		221771	Washer	4	4
3	b	296423	Washer	4	4
4		300937	Nut	4	4

a For Polished Forks W/Full Bottom Taper
b Optional

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MAST INSTALLATION (Figure 225)

TWO STAGE FULL FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1,2	I-F-81

KEY:
A: 6° Forward Tilt/10° Back Tilt
B: 6° Forward Tilt/6° Back Tilt
C: 6° Forward Tilt/5° Back Tilt

REF		PART NO.	NAME OF PART	QTY A	B	C
1	a	1333386	Pin	2	2	2
1	b	1376424	Pin	2	2	2
2	a	293659	Capscrew	4	4	4
2	b	1376423	Capscrew	4	4	4
3		15236	Cotter Pin	2	2	2
4		300982	Bushing	2	2	2
5		1345354	Pin	2	2	2
6		1307641	Rod End	2	2	2
7		293650	Capscrew	2	2	2
8		292683	Lockwasher	2	2	2
9		216877	Nut	2	2	2

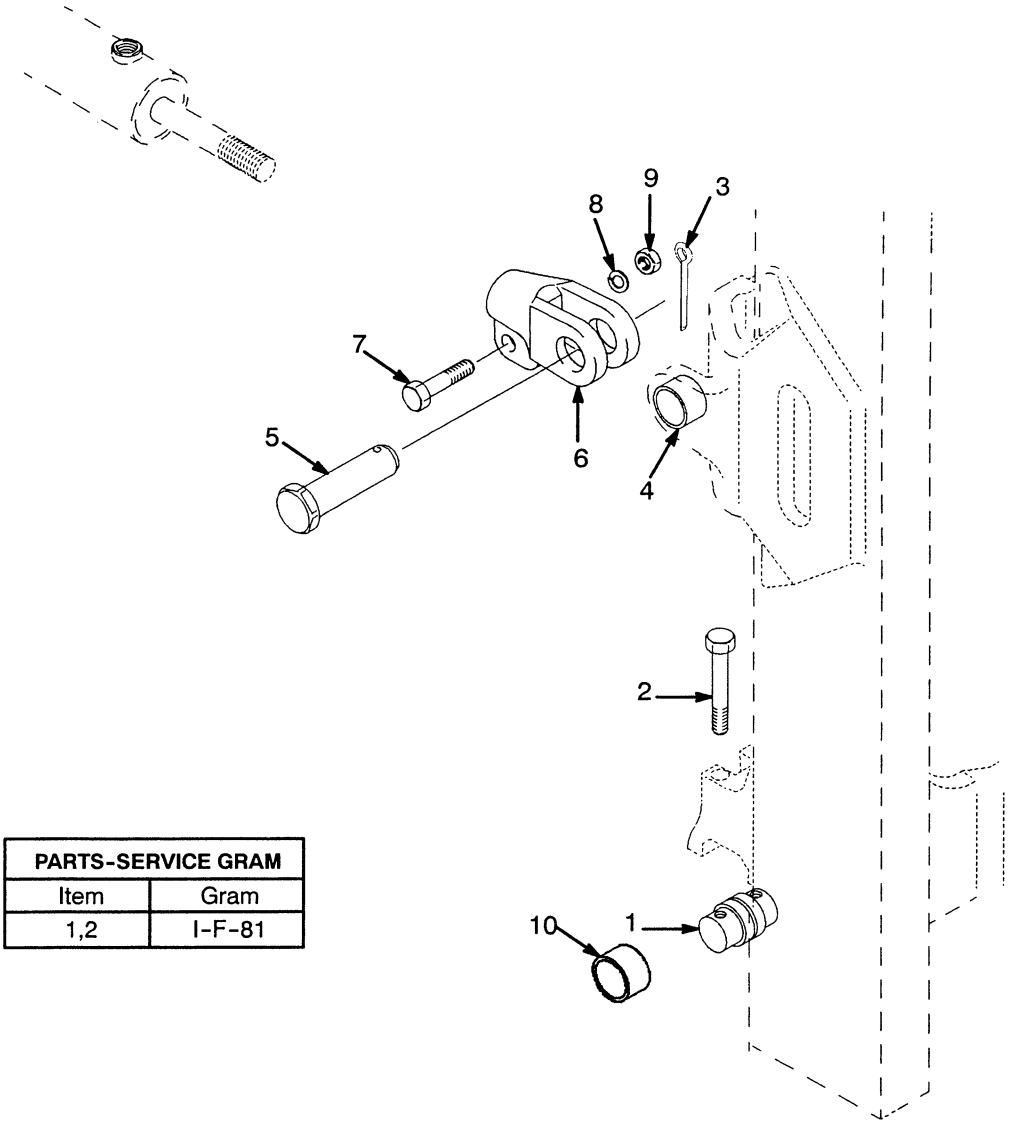
REF	PART NO.	NAME OF PART	QTY A	B	C
10	1451788	Spacer	..	2	..
10	384101	Spacer	..	..	2
11	55434	O-Ring	..	2	2
12	134675	Shim	..	AR	AR
13	1325119	Shim	..	AR	AR
14	1361948	Shim	..	..	AR
15	1333385	Bushing	2	2	2
15	1380115	Bushing (Optional)	2	2	2

a First Used On S/N D177B-19806
b Last Used On S/N D177B-19807

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MAST INSTALLATION (Figure 226)

TWO STAGE FULL FREE-LIFT



PARTS-SERVICE GRAM	
Item	Gram
1,2	I-F-81

KEY:
10° Forward Tilt/6° Back Tilt

REF		PART NO.	NAME OF PART	QTY
1	a	1333386	Pin	2
1	b	1376424	Pin	2
2	a	293659	Capscrew	4
2	b	1376423	Capscrew	4
3		15236	Cotter Pin	2
4		300982	Bushing	2
5		1345354	Pin	2
6		1356318	Rod End	2

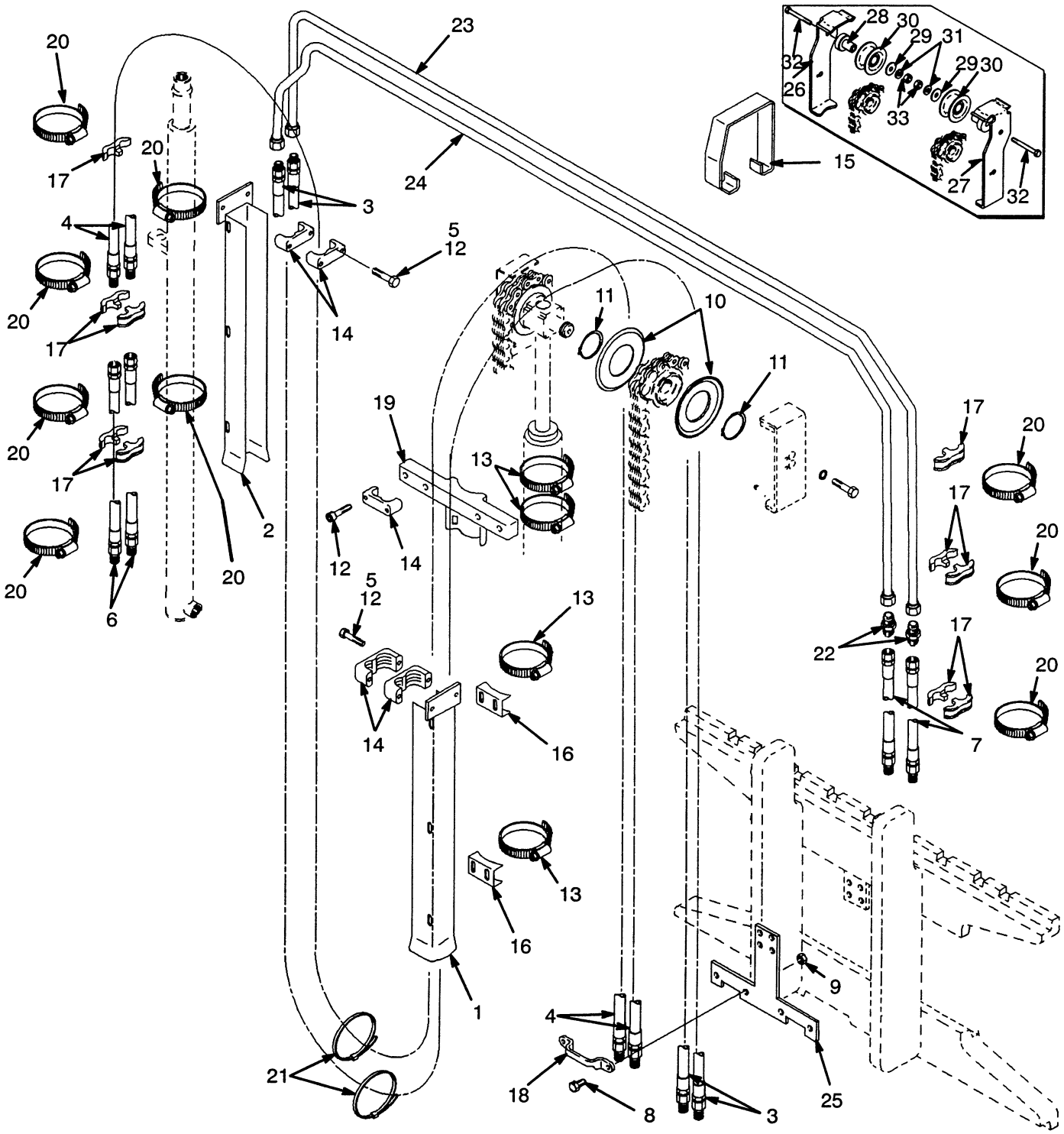
REF	PART NO.	NAME OF PART	QTY
7	293650	Capscrew	2
8	292683	Lockwasher	2
9	216877	Nut	2
10	1333385	Bushing	2
10	1380115	Bushing (Optional)	2

a First Used On S/N D177B-19806
b Last Used On S/N D177B-19807

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HEADER HOSE (Figure 227)

TWO STAGE FULL FREE-LIFT



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HEADER HOSE
TWO STAGE FULL FREE-LIFT

H45-55XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		117.4 in	129.2 in	148.9 in
	Mast Group No.	**B509 2982**	**B509 3282**	**B509 3782**
1	Channel	1365500	1365502	1365505
2	Channel	1365514	1365517	1365523
3	Hose	[b]1345568 [c]1390425 1345571	[d]1369632 [e]1368400	[d]1345573 [e]1390417
4	Hose	[b]1358351 [c]1390416 [e]1345575	[d]1345574 [e]1376120	[d]1369613 [e]1369640
23	Tube	1360331	1360334	1360339
24	Tube	1360361	1360364	1360369
25	Bracket	[b]1369323	[b]1369323	[b]1369323
25	Bracket	[c]1381771	[c]1381771	[c]1381771

H60-65XM

Ref No	Name Of Part 1 2 3 4	Lift Height To Bottom Of Forks		
		112.6 in	124.4 in	144.1 in
	Mast Group No.	**B564 2860**	**B564 3160**	**B564 3660**
1	Channel	1365500	1365502	1365504
2	Channel	1365514	1365517	1365523
3	Hose	[b]1345568 [c]1390425 1345571	[d]1369632 1368400	[d]1345573 1369640
4	Hose	[b]1358351 [c]1390416 1345575	[d]1345574 [e]1376120	[d]1369613 [e]1369640
23	Tube	1360331	1360334	1360339
24	Tube	1360361	1360364	1360369
25	Bracket	[b]1369324	[b]1369324	[b]1369324
25	Bracket	[c]1381772	[c]1381772	[c]1381772

b Last Used on S/N B509V-2643, B564V-2196
c Used on S/N B509V-2644, B564V-2197 ⇒ S/N B509V-3722, B564V-5761
d Last Used On S/N B509V-3722, B564V-5761
e First Used On S/N B509V-3723, B564V-5762

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HEADER HOSE

TWO STAGE FULL FREE-LIFT

(Figure 227 Continued)

KEY:
A: Three Function
B: Four Function

REF		PART NO.	NAME OF PART	QTY A	QTY B
	a	.....	Mast	1	1
1	a	.....	Channel	1	1
2	a	.....	Channel	1	1
3	a	.....	Hose	2	2
4	a	.....	Hose	..	2
5		296001	Capscrew	..	4
6		1354904	Hose	..	2
7		1354922	Hose	2	2
8		136749	Capscrew	6	8
9		313828	Nut	6	8
10		1345199	Hose Guide	2	4
11		1345204	Snap Ring	2	4
12		293796	Capscrew	6	4
13		1360508	Clamp	4	4
14		1360386	Clamp	3	6
15		1365062	Clip	1	1
16		1345423	Clamp	2	2
17		1353530	Clamp	5	10
18		1369333	Clamp	1	2
19		1354918	Bracket	1	1
20		1360507	Clamp	5	8
21		2004005	Strap Clamp	1	1
22		14692	Fitting	2	2
23	a	.....	Tube	1	1
24	a	.....	Tube	1	1
25	a	.....	Bracket	1	1
26	b	1395291	Guard (RH)	1	1
27	b	1395292	Guard (LH)	..	1
28	b	1396406	Stubshaft	1	2
29	b	1396407	Spacer	1	2
30	b	1345194	Sheave	1	2
31	b	1345190	Washer	1	2
32	b	292533	Capscrew	1	2
33	b	300937	Nut	1	2

a ☞ Table Above
b First Used On S/N B509V-3723, B564V-5762

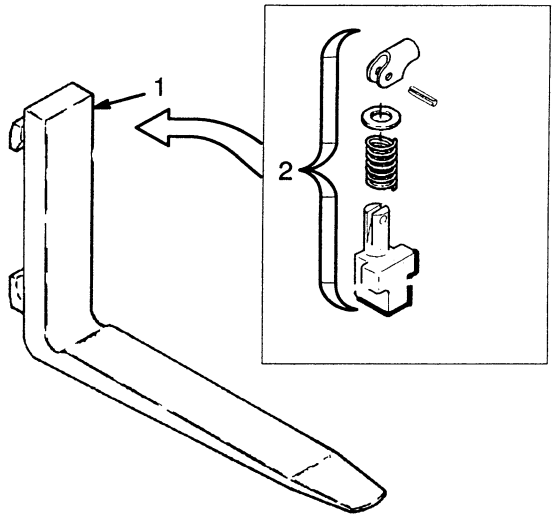
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NOTES

FORKS (Figure 228)

TWO STAGE FULL FREE-LIFT



H45-55XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
1	Fork	125 mm x 40 mm	100 mm x 40 mm	125 mm x 40 mm	
	762 mm (30 in)	1326660	384210		2
	914 mm (36 in)	1326661	384211	1338087	2
	1067 mm (42 in)	1326663	384213	1338088	2
	1219 mm (48 in)	1326664	384214	1338089	2
	1372 mm (54 in)	1326665	384215		2
	1524 mm (60 in)	1326666	384216		2
2	Latch	369795	369795	369795	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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FORKS

TWO STAGE FULL FREE-LIFT MAST

(Figure 228 Continued)

H60-65XM

Ref No	Name Of Part 1 2 3 4	Standard Taper		Full Bottom Taper	Qty
1	Fork	100 mm x 45 mm	125 mm x 50 mm	180 mm x 45 mm	
	914 mm (36 in)	1333018	367419		2
	1067 mm (42 in)	1333020	367420		2
	1207 mm (42.5 in)			1338098	2
	1219 mm (48 in)	1333021	367421		2
	1372 mm (54 in)		367422	1332745	2
	1524 mm (60 in)		367423		2
	1829 mm (72 in)	1333024	367424		2
2	Latch	369796	369796	369796	1

NOTE: OTHER FORK DIMENSIONS AVAILABLE ON REQUEST, CONTACT YOUR HYSTER DEALER.

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NOTES

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OPTIONAL

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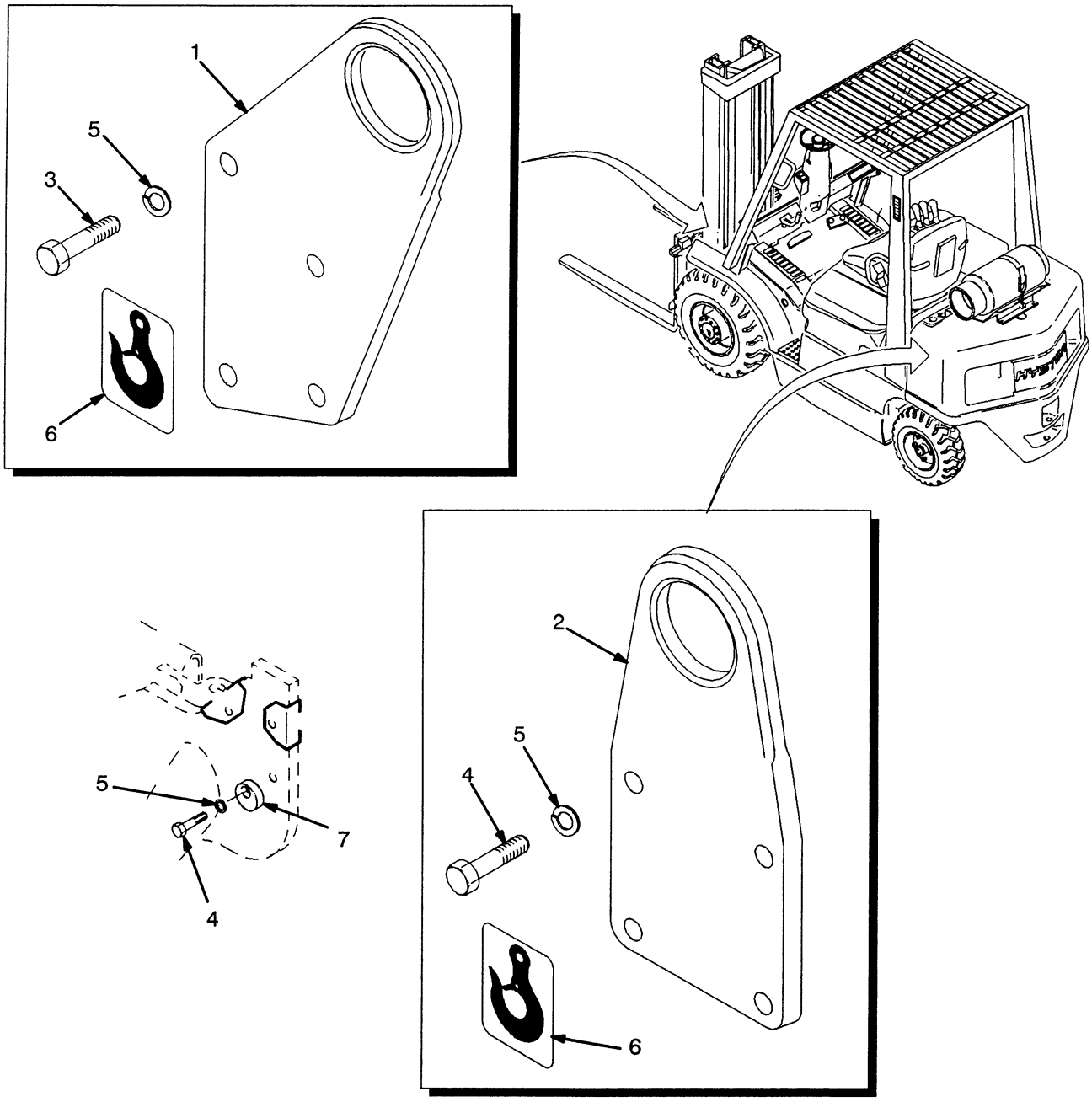
TIRE & WHEEL (Figure 234)
DRIVE WHEEL ..... Page 444

TIRE & WHEEL (Figure 235)
STEER WHEEL ..... Page 448

WINDOWS (Figure 241)
CAB ..... Page 458

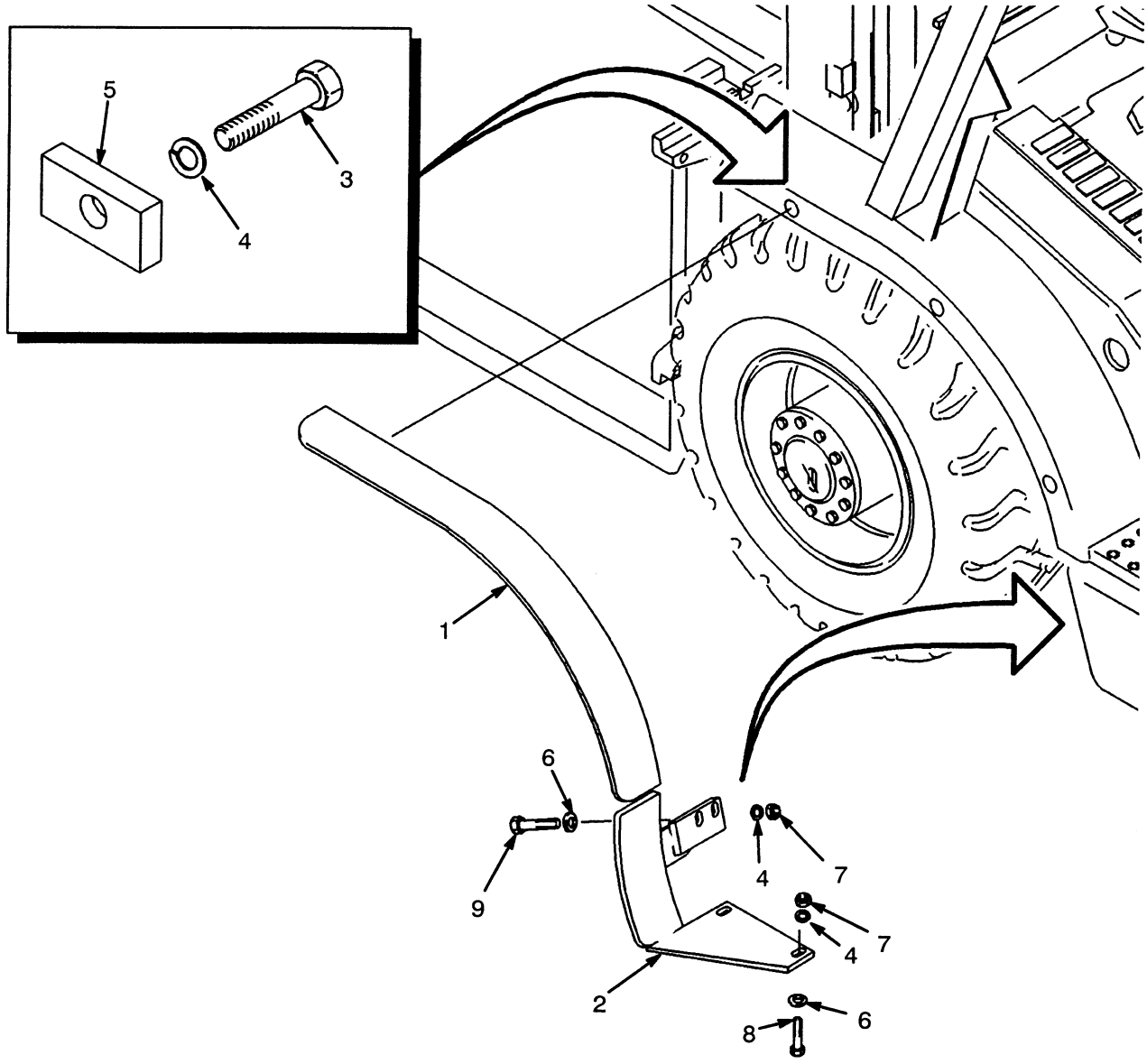
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LIFT EYE (Figure 229)



REF	PART NO.	NAME OF PART	QTY
1	1356400	Plate	4
2	1356401	Plate	8
3	293645	Capscrew	8
4	293647	Capscrew	18
5	292683	Washer	18
6	316448	Lifting Eyes Label	4
7	1369709	Cam	2

FENDERS (Figure 230)



KEY:
A: Wide Tire
B: Dual Tire

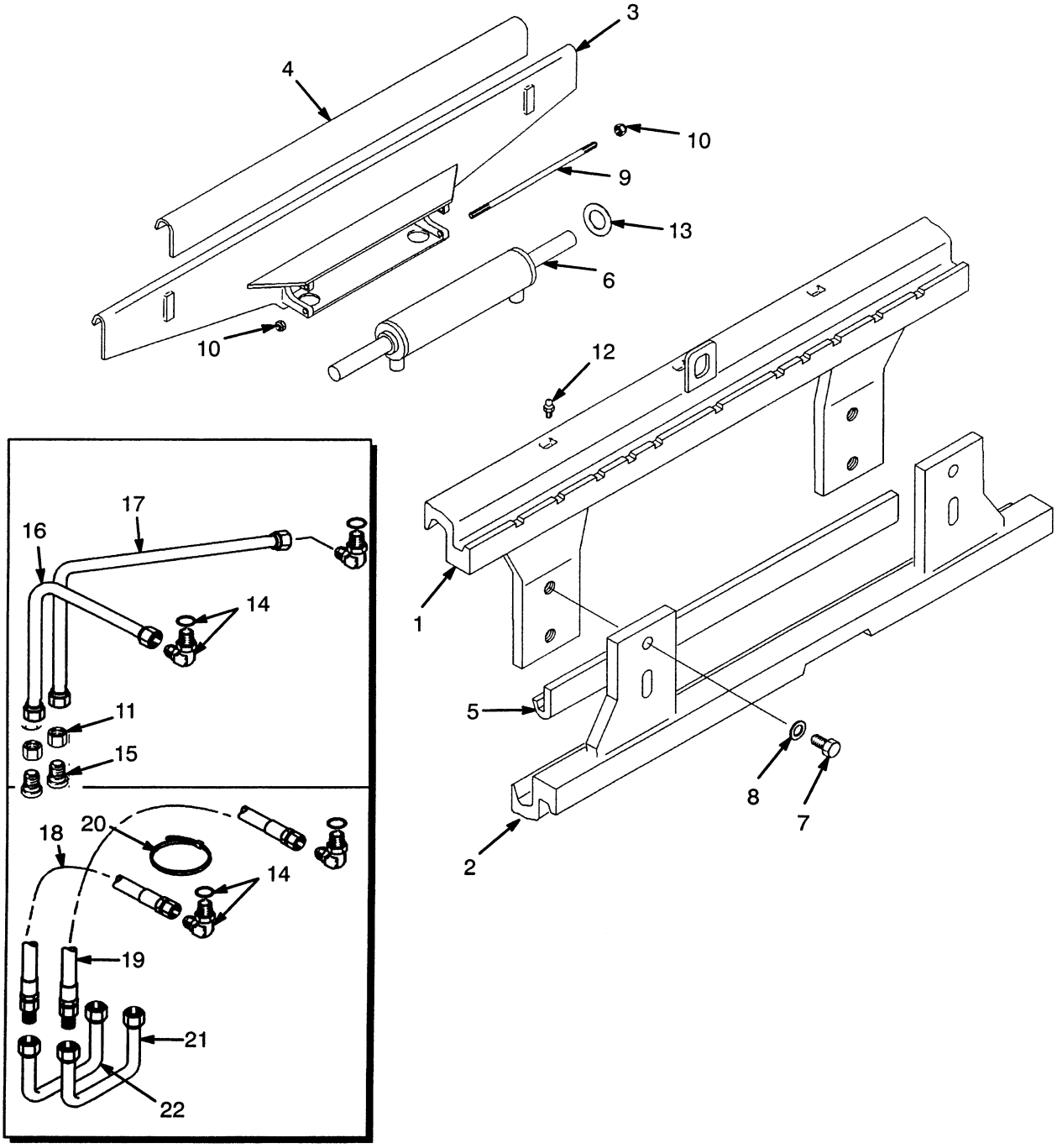
REF	PART NO.	NAME OF PART	QTY A	QTY B
1	1347142	Fender (Upper LH)	1	..
1	1347143	Fender (Upper RH)	1	..
1	1347196	Fender (Upper LH)	..	1
1	1347197	Fender (Upper RH)	..	1
2	1347145	Fender (Lower LH)	1	..
2	1347146	Fender (Lower RH)	1	..
2	1347198	Fender (Lower LH)	..	1
2	1347201	Fender (Lower RH)	..	1

REF	PART NO.	NAME OF PART	QTY A	QTY B
3	292516	Capscrew	6	6
4	292682	Washer	14	10
5	1347144	Load Bar	6	6
6	320160	Washer	8	4
7	136692	Nut	8	4
8	287860	Capscrew	4	4
9	292515	Capscrew	4	..

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NOTES

SIDESHIFT CARRIAGE (Figure 231)



SIDESHIFT CARRIAGE

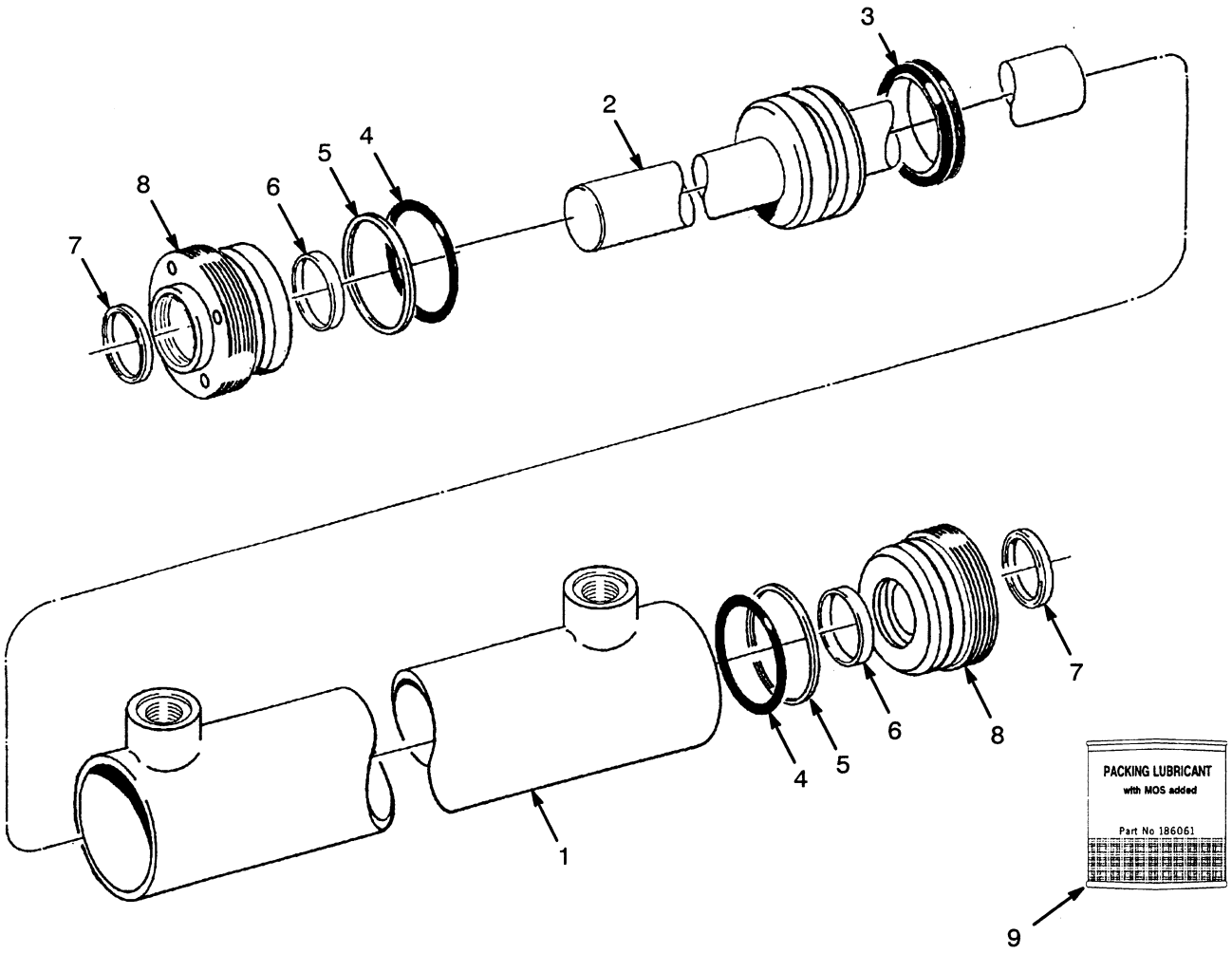
KEY:
A: H45-55XM 1067 mm (42 Inch)
B: H45-55XM 1220 mm (48 Inch)
C: H60-65XM 1067 mm (42 Inch)

REF		PART NO.	NAME OF PART	QTY A	B	C
	h	1356918	Sideshift Carriage	1	..	..
	k	1399041	Sideshift Carriage	1	..	..
	h	1376340	Sideshift Carriage	..	1	..
	k	1399044	Sideshift Carriage	..	1	.
	h	1356882	Sideshift Carriage	..	..	1
	k	1399048	Sideshift Carriage	..	..	1
1		1355523	Top Apron	1	..	..
1		1376341	Top Apron	..	1	..
1		1355547	Top Apron	..	..	1
2	d	1356873	Bottom Apron	1	..	..
2	e	1378055	Bottom Apron	1	..	..
2	k	1396431	Shim	6	..	..
2	d	1376342	Bottom Apron	..	1	..
2	e	1378057	Bottom Apron	..	1	..
2	k	1396434	Shim	..	6	..
2	d	1356892	Bottom Apron	..	..	1
2	e	1378072	Bottom Apron	..	..	1
2	k	1396431	Shim	..	..	6
3	h	1397265	Cylinder Support	1	..	..
3	k	1399006	Cylinder Support	1	..	..
3	h	1397267	Cylinder Support	..	1	..
3	k	1399008	Cylinder Support	..	6	..
3	h	1397277	Cylinder Support	..	..	1
3	k	1399023	Cylinder Support	..	..	6
4	h	1356867	Top Bearing	1	..	..
4	k	1396460	Top Bearing	1	..	..
4	h	1376344	Top Bearing	..	1	..
4	k	1396462	Top Bearing	..	1	.
4	h	1356902	Top Bearing	..	..	1
4	k	1396472	Top Bearing	..	..	1
5	d	1356863	Bottom Bearing	1	..	..
5	e	1378065	Bottom Bearing	1	..	..
5	d	1376345	Bottom Bearing	..	1	..
5	e	1356863	Bottom Bearing	..	1	..
5	d	1356897	Bottom Bearing	..	..	1
5	e	1378082	Bottom Bearing	..	..	1
6		....	Sideshift Cylinder ☞ Figure 232	1	1	1
7		293704	Capscrew	4	4	..
7		1360229	Capscrew	..	..	4
8		296431	Washer	4	4	..
8		296435	Washer	..	..	4
9		1371289	Capscrew	2	2	2
9	a	1358809	Rod	2	2	2
10		313828	Nut	2	2	2
10	a	313828	Nut	4	4	4
11		17319	Fitting	2	..	2
12		16041	Lube Fitting	3	3	3
13		1358821	Shim	AR	AR	AR
14		239784	Fitting	2	2	1
14		16481	O-Ring	1	1	1
15		17218	Fitting	2	..	2
16	bf	1369334	Tube	1	1	..
16	bf	1369336	Tube	..	..	1
16	c	1358814	Tube	1	1	..
16	c	1358816	Tube	..	..	1
17	bf	1369335	Tube	1	1	..
17	bf	1369337	Tube	..	..	1
17	c	1358815	Tube	1	1	..
17	c	1358817	Tube	..	..	1
18	bg	1390365	Hose	1	1	..
18	bg	1390367	Hose	..	..	1
19	bg	1390366	Hose	1	1	..
19	bg	1390368	Hose	..	..	1
20	bg	129563	Strap Clamp	1	1	1
21	bg	1381765	Tube	1	1	1
22	bg	1381766	Tube	1	1	1
23	bg	16565	Fitting	..	..	1
23	bg	16481	O-Ring	..	..	1

a Optional
b Two Stage FFL & Three Stage FFL
c Two Stage LFL
d Last Used On Attachment S/N B601B-11719, B603B-7259, B603D-1738 (48 inch) & B603D-1717 (60 inch)
e First Used On Attachment S/N B601B-11720, B603B-7260, B603D-1739 (48 inch) & B603D-1718 (60 inch)
f Last Used on S/N B508V-12601, B509V-2644 B563V-4769, B56V-2196
g First Used on S/N B508V-12602, B509V-2645 B563V-4770, B564V-2197
h Last Used on S/N B601V-5325, B603V-3011
k First Used on S/N B601V-5326, B603V-3012

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SIDESHIFT CYLINDER (Figure 232)



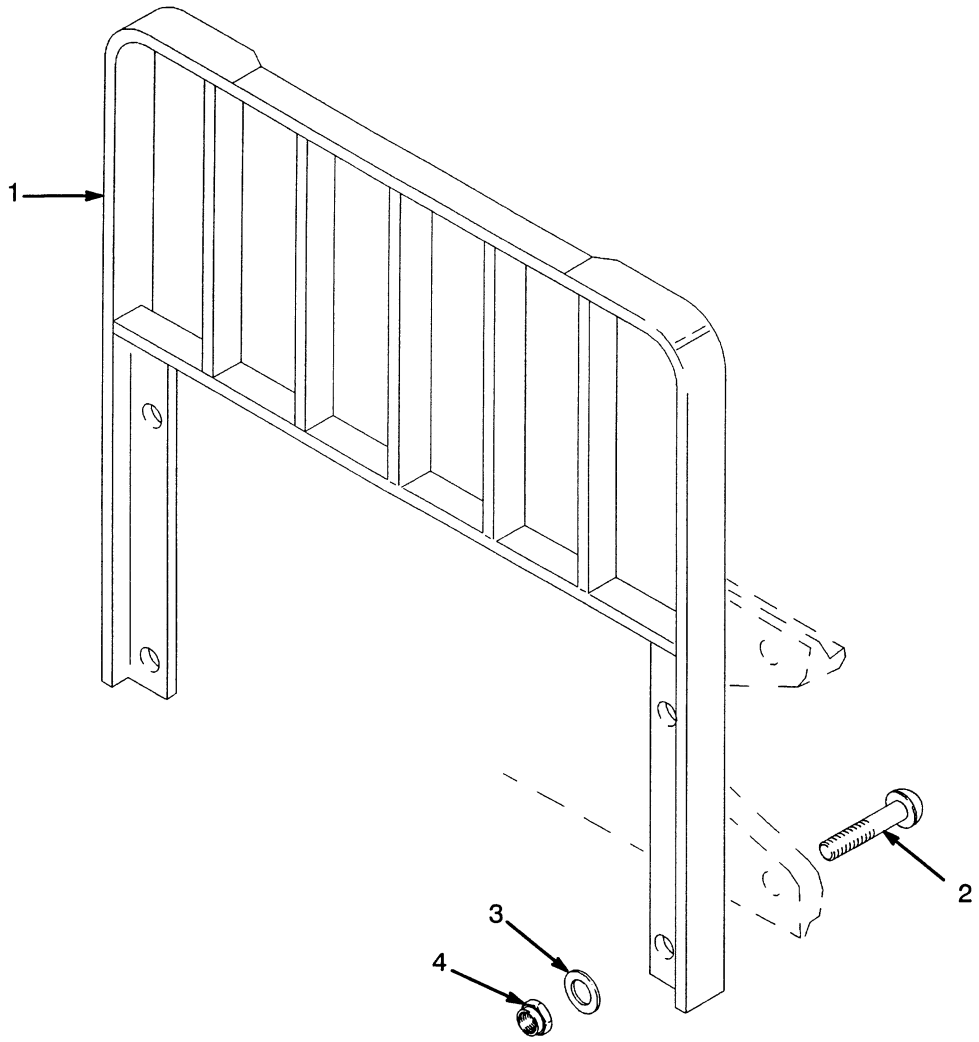
KEY:
A: H45-55XM
B: H60-65XM

REF		PART NO.	NAME OF PART	QTY A	QTY B
		1360125	Cylinder	1	..
		1360126	Cylinder	..	1
1		2311471	Tube	1	..
1		2304345	Tube	..	1
2		2309719	Rod	1	..
2		2303634	Rod	..	1
3	a	2306755	Piston Seal	1	..
3	b	1351184	Piston Seal	..	1
4	a	55407	O-Ring	2	..
4	b	59229	O-Ring	..	2
5	a	153919	Back-Up Ring	2	..
5	b	615130	Back-Up Ring	..	2
6	ab	294643	Seal	2	2
7	ab	636851	Wiper Ring	2	2
8		2310768	Gland	2	..
8		2306283	Gland	..	2
8		383789	Sealant	ARAR	
9		186061	Packing Lubricant	ARAR	

a Included In Seal Kit 2311624
b Included In Seal Kit 2307647

LOAD BACKREST EXTENSION (Figure 233)

48 INCH (1220 mm)

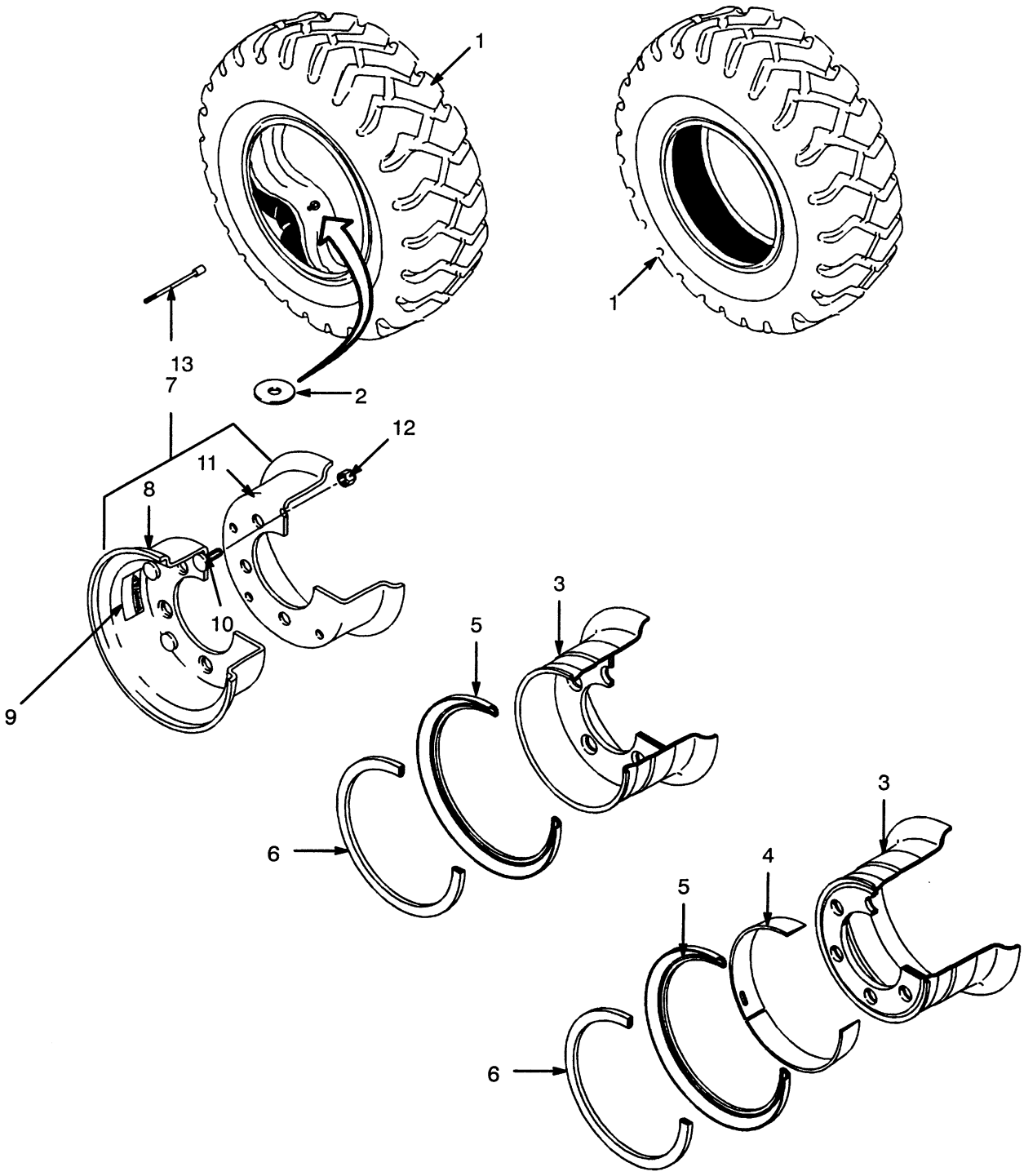


REF		PART NO.	NAME OF PART	QTY
1		1376338	Load Backrest Extension	1
2		1343990	Capscrew	4
3		221771	Washer	4
3	a	296423	Washer	4
4		300937	Nut	4

a Optional

TIRE & WHEEL (Figure 234)

DRIVE WHEEL



TIRE & WHEEL

DRIVE WHEEL

(Continued On Next Page)

Ref No.	Name Of Part	H45-50XM Single	H45-55XM Wide	QTY	H45-65XM Dual	QTY
		7.00 x 12	7.00 x 12		7.00 x 12	
1	Tire-Solid Soft Ride Tire-Solid Std Hardness	336087 174209	336087 174209	2 2	174209	4
1	Tire/Tube-Bias Tire/Flap Tube	130619 45736 45737	130619 45736 45737	2 1 1	130619 45736 45737	4 1 1
1	Tire/Tube-Radial Tire/Flap Flap Tube	1337743 1358179 1358019 1358190	1337743 1358179 1358019 1358190	2 1 1 1	1337743 1358179 1358019 1358190	4 1 1 1
2	Washer	[b]1376007	[b]1376007	2	[b]1376007	4
3	Wheel 5.00 x 12	[ab]1347190	[ab]329064	2	[ab]1347190	4
4	Shoulder Ring	[a]806556	[a]806556	1	[a]806556	1
5	Side Ring	[a]161890	[a]161890	1	[a]161890	1
6	Lock Ring	[a]161889	[a]161889	1	[a]161889	1
7	Wheel (2-Piece)	377846		2	377846	4
8	Outer Wheel	377844		1	377844	1
9	Label-Warning	288638		2	288638	2
10	Bolt	377841		6	377841	6
11	Inner Wheel	377845		1	377845	1
12	Nut	53163		6	53163	6
13	Valve Extension				326477	1

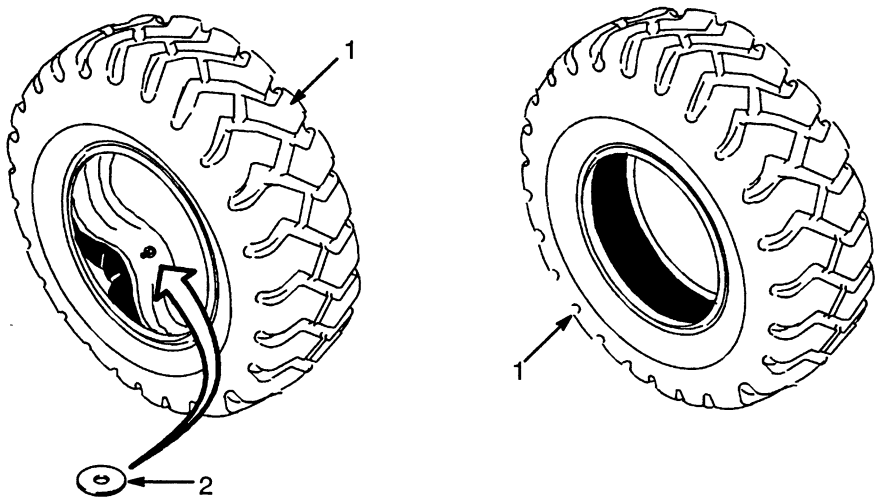
[a] 4 Piece Design (Required for Bergougnan Tire)

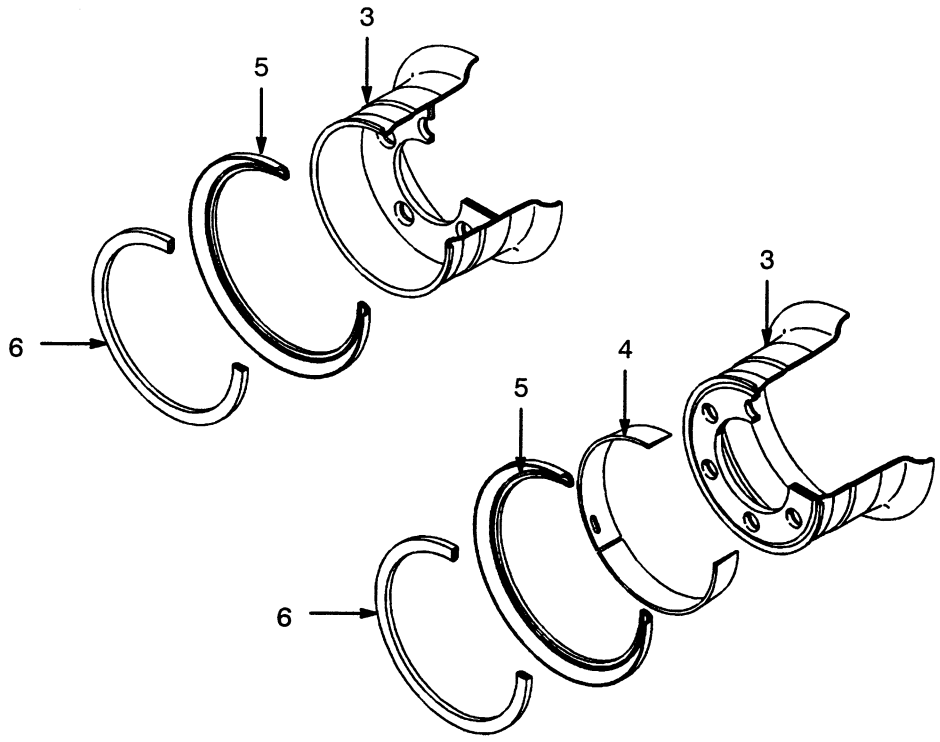
[b] Required on Radial Tire

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TIRE & WHEEL

DRIVE WHEEL





TIRE & WHEEL

DRIVE WHEEL

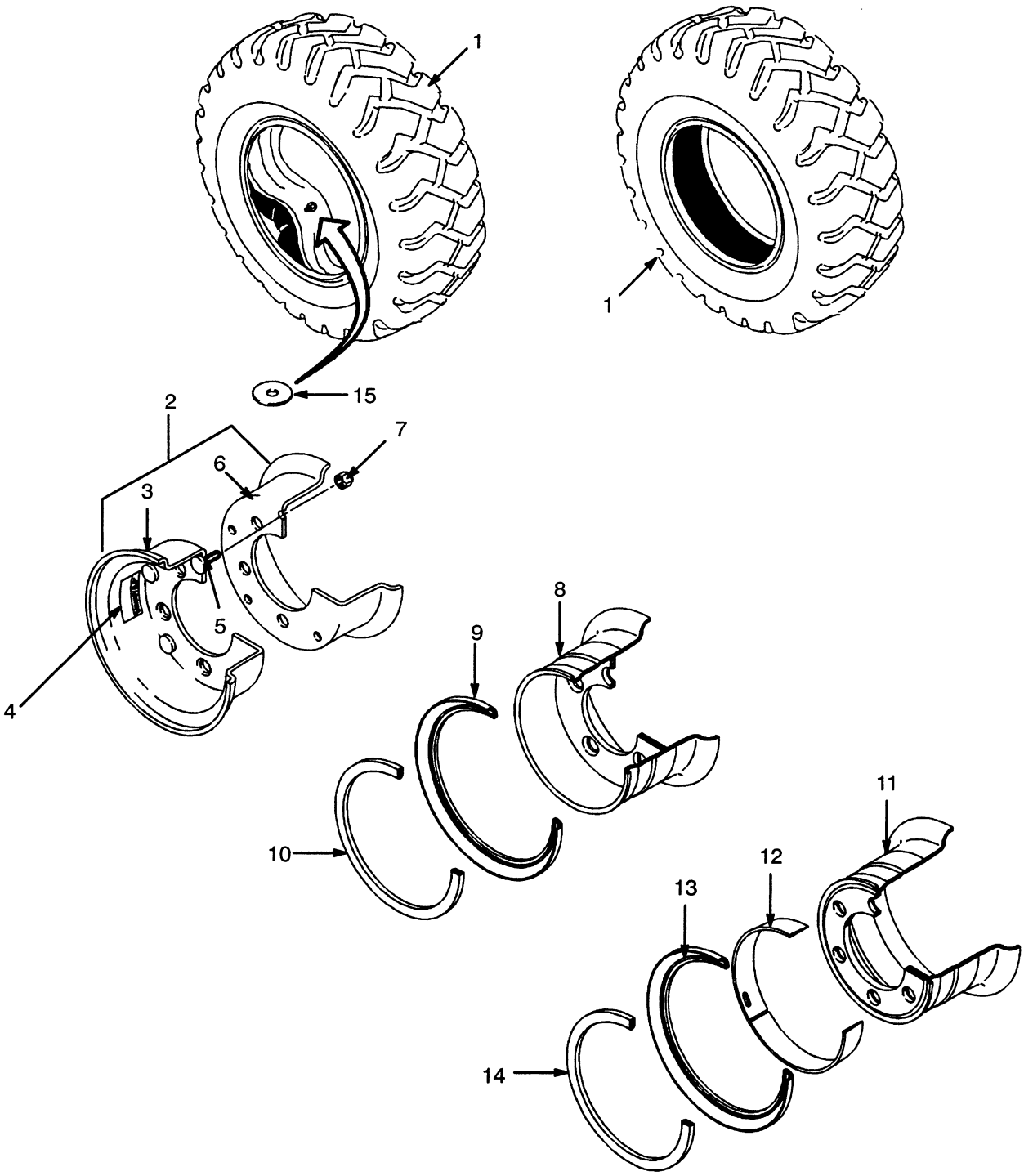
Ref No.	Name Of Part	H45-65XM Standard	H45-65XM Wide	QTY
		28 x 9-15	28 x 9-15	
1	Tire-Solid Soft Ride Tire-Solid Std Hardness-Pneu	336094 174211	336094 174211	2 2
1	Tire/Tube-Bias Tire/Flap Tube Tire	145096 145097 145157	145096 145097 145157	2 1 1
1	Tire/Tube-Radial Tire/Flap Flap Tube	1357300 1358183 1358016 1358194	1357300 1358183 1358016 1358194	2 1 1 1
2	Washer	[c]1376007	[c]1376007	2
3	Wheel 7.00 x 15	[a]1334818 [b]1334813 [da]1334815	[a]381004 [b]381002	2 2
4	Shoulder Ring	[b]806557	[b]806557	1
5	Side Ring	160653 [da]322637	[a]322637 [b]161890	1
6	Lock Ring	980542 [da]322638	[a]322638 [b]980542	1

a 3 Piece Design
b 4 Piece Design (Required for Bergougnan Tire)
c Required on Radial Tire
d Optional

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TIRE & WHEEL (Figure 235)

STEER WHEEL



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TIRE & WHEEL

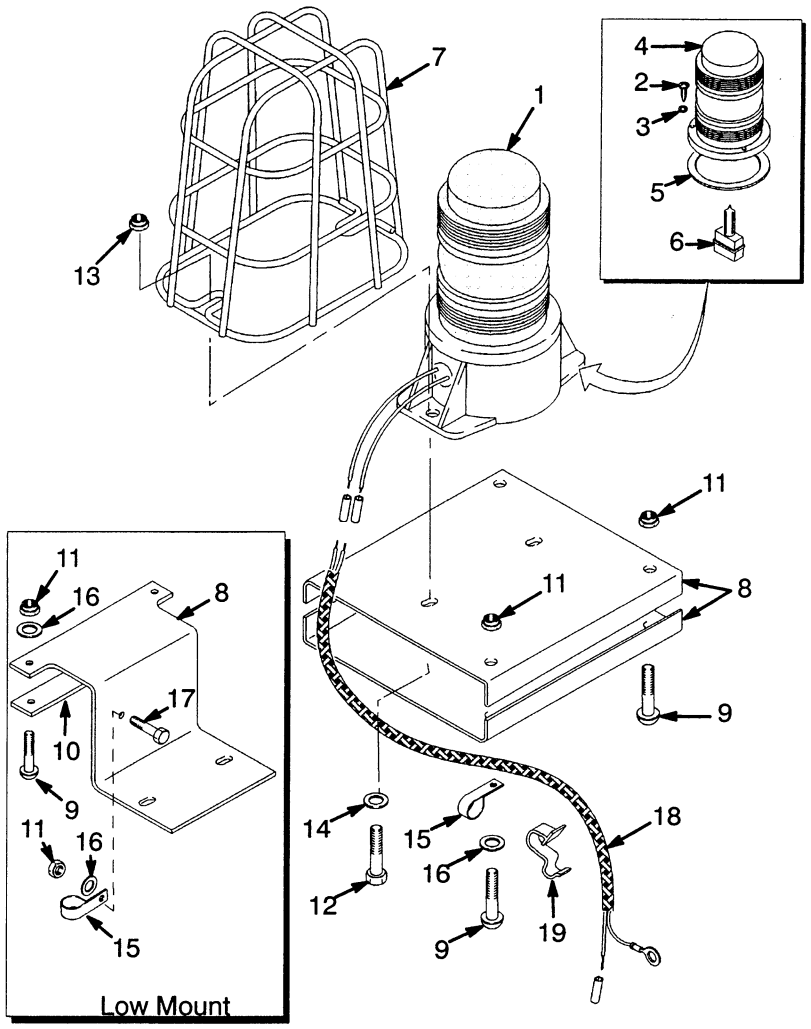
STEER WHEEL

KEY:
A: Solid
B: Standard/Premium
C: Radial

Ref No.	Name Of Part	H45-50XM 6.00 X 9	H55-65XM 6.50 X 10	Qty		
				A	B	C
1	Tire-Solid	195417	174208	2		
1	Tire/Tube-Standard Tire/Flap Tube	306209 29588 306200	137138 137139 135920		2 1 1	
1	Tire/Tube-Premium Tire/Flap Flap Tube	1367440 1367444 45069 306200	1367441 1367445 135921 135920		2 1 1 1	
1	Tire Assembly-Radial Tire Flap Tube	1357302 1358177 1358018 1358188	1337746 1358178 1358020 1358189			2 1 1 1
2	Wheel Assembly (2-Piece)	61220	236437	..	2	..
3	Wheel (Outer)	60948	135915	..	1	..
4	Label-Warning)	288638	288638	..	2	..
5	Stud	377841	.....	..	5	..
5	Stud	.....	135917	..	10	..
6	Wheel (Inner)	291912	291915	..	1	..
7	Nut	53163	.....	..	5	..
7	Nut	.....	221355	..	10	..
8	Wheel Assembly (3-Piece)	.....	323594	2	..	2
9	Side Ring	.....	323599	1	..	1
10	Lock Ring	.....	323598	1	..	1
11	Wheel Assembly (4-Piece)	.....	1360932	..	2	..
12	Shoulder Ring	.....	806555	..	1	..
13	Side Ring	.....	161895	..	1	..
14	Lock Ring	.....	161894	..	1	..
11	Wheel Assembly (4-Piece)	359340	345897	2	..	2
12	Shoulder Ring	359341	806555	1	..	1
13	Side Ring	161885	161895	1	..	1
14	Lock Ring	161884	161894	1	..	1
15	Washer	.....	1376007	..	..	1

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STROBE LIGHT (Figure 236)



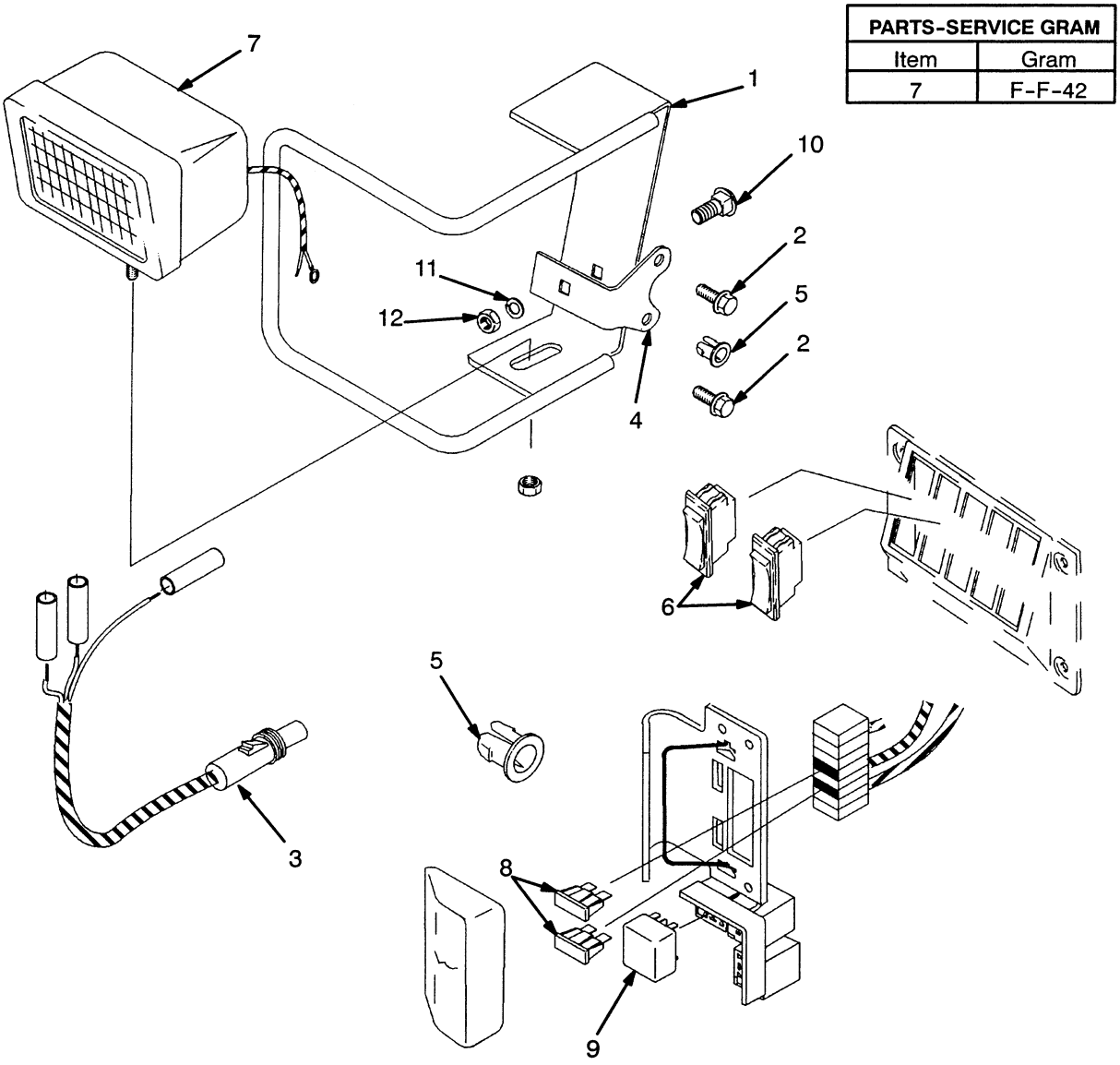
KEY:
A: Low Mount
B: High Mount

REF		PART NO.	NAME OF PART	QTY A	QTY B
1	b	1374922	Strobe Light	1	1
1	c	1382130	Strobe Light	1	1
1	a	1385522	Strobe Light	1	1
2		227132	Screw	3	3
3		15855	O-Ring	3	3
4	b	1309776	Lens	1	1
4	c	1382131	Lens	1	1
5		39359	O-Ring	1	1
6		1309775	Bulb	1	1
7		1302024	Guard	1	1
8		1356541	Bracket	1	..
8		1356342	Bracket	..	1
9		302054	Screw	2	4
10		1356540	Bar	1	..
11		313805	Nut	3	..
12		220498	Screw	2	2
13		230882	Nut	2	2
14		197067	Washer	2	2
15		164488	Clamp	1	1
16		320156	Washer	3	1
17		302047	Screw	1	..
18		1356543	Harness	1	1
19		1301727	Clamp	4	4

a Optional
b Last Used On S/N D177B-35734
c First Used On S/N D177B-35735

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DRIVE & REAR LIGHT (Figure 237)



PARTS-SERVICE GRAM	
Item	Gram
7	F-F-42

REF		PART NO.	NAME OF PART	QTY
1		1375172	Bracket (LH)	1
1		1375171	Bracket (RH)	1
1	c	878138	Bracket	2
1		1376579	Rear Bracket	1
2		316678	Screw	6
2	c	292500	Capscrew	4
3		1356328	Harness-Wire	3
4		1375169	Plate	3
5		1367645	Bushing	5
5	c	878232	Grommet	2
6		1301160	Switch	2
6		1301156	Lens	1
7		1354119	Light	3
7		1379799	Bulb	1

REF		PART NO.	NAME OF PART	QTY
7		1363016	Lens	1
7		1363016	Lens	1
8	a	1300134	Fuse (25 Amp)	2
8	b	1310630	Fuse (15 Amp)	2
9	a	1347114	Relay	1
10		1375168	Bolt	3
11		296418	Washer	3
11	c	320156	Washer	4
12		316835	Locknut	3
12	c	136687	Nut	4

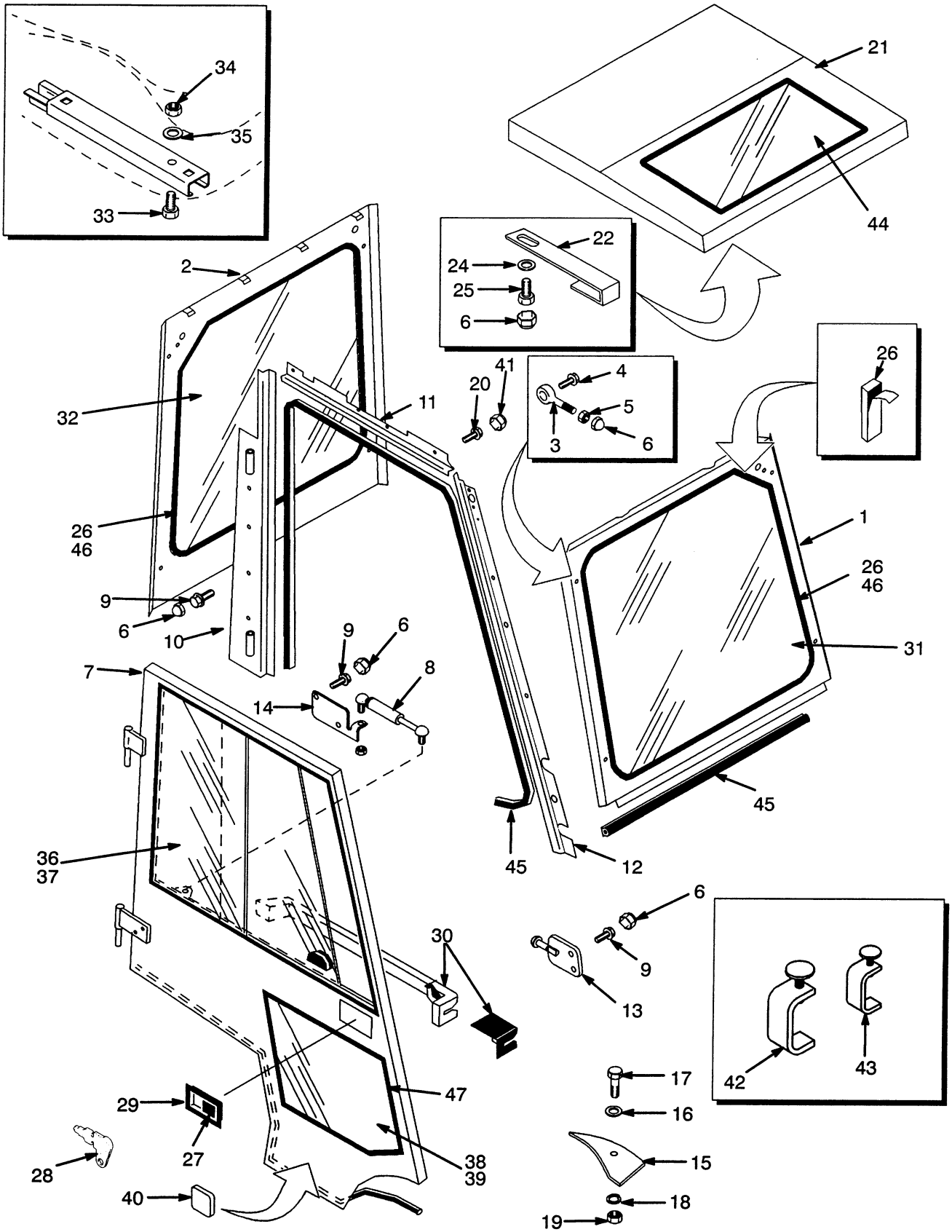
a Last Used On S/N D177B-35854
b First Used On S/N D177B-35855
c Used With Cab Kit 895972

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See Service Manual for service procedures

CAB KIT (Figure 238)

WITH DOORS MOUNTED INSIDE OVERHEAD GUARD



CAB KIT

WITH DOORS MOUNTED INSIDE OVERHEAD GUARD

KEY:
A: Front Panel
B: Rear Panel
C: Door
D: Top

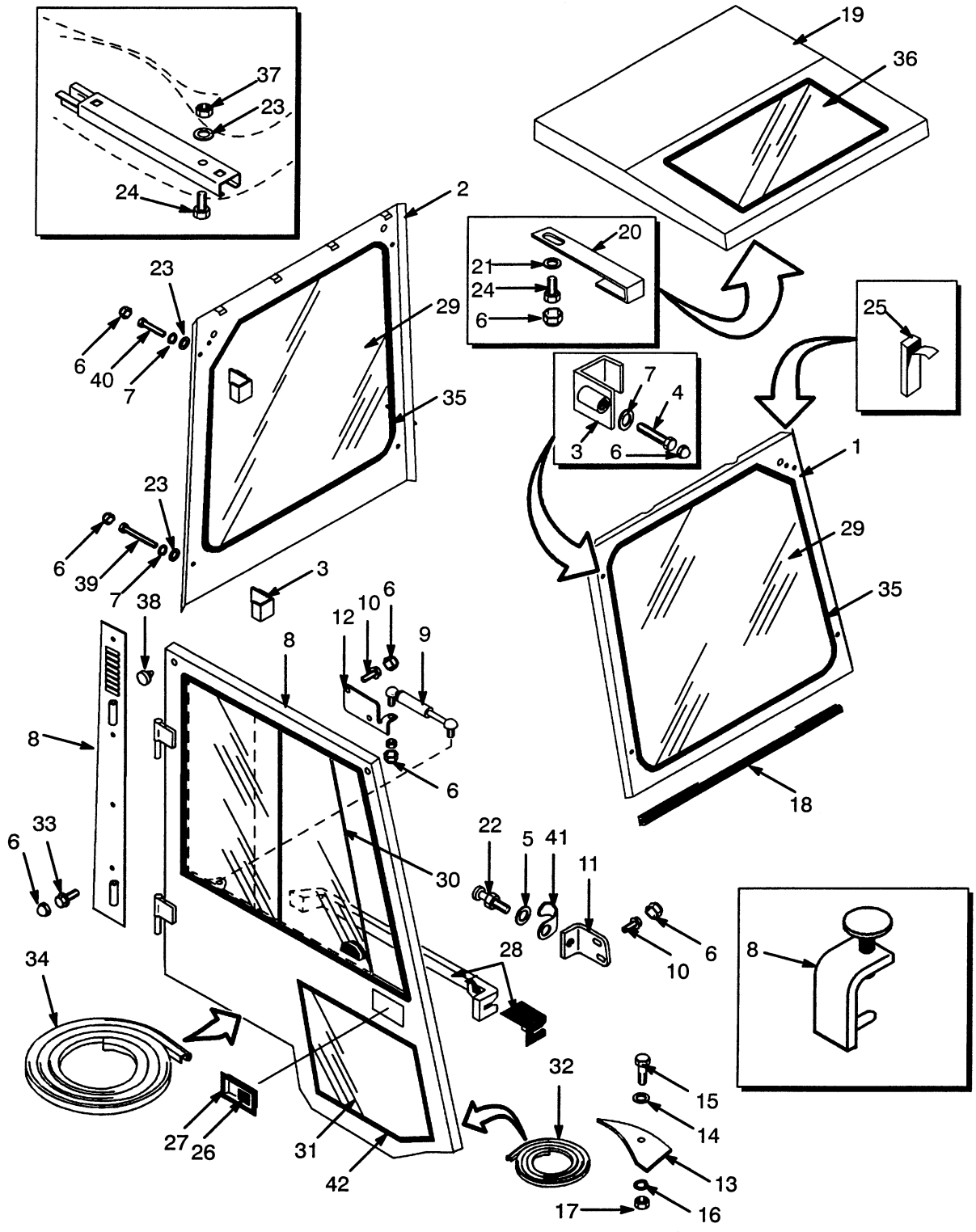
REF		PART NO.	NAME OF PART	QTY A	B	C	D
1		1369067	Panel	1	..	..	..
2		1366604	Panel	..	1	..	..
3		1365293	Eyebolt	4	4	..	..
4		1365294	Screw	4	4	..	..
5		316835	Nut	4	4	..	..
6		1365296	Cap	21	4	..	4
7	c	1366608	Door	..	..	1	..
7	d	1366613	Door	..	..	1	..
8		1366618	Gas Spring	..	..	2	..
9		1366624	Screw	..	..	6	..
10		1366615	Plate, LH	..	..	1	..
10		1366610	Plate, RH	..	..	1	..
11		1366616	Top Plate, LH	..	..	1	..
11		1366611	Top Plate, RH	..	..	1	..
12		1366617	Plate, LH	..	..	1	..
12		1366612	Plate, RH	..	..	1	..
13		1368950	Striker Plate, LH	..	..	1	..
13		1368951	Striker Plate, RH	..	..	1	..
14		1367109	Plate, LH	..	..	1	..
14		1367110	Plate, RH	..	..	1	..
15	d	1359510	Panel	..	..	1	..
15	c	1359509	Panel	..	..	1	..
16		1368957	Spacer	..	..	2	..
17		292509	Capscrew	..	..	2	..
18		320157	Washer	..	..	2	..
19		316835	Nut	..	..	2	..
20		1365294	Screw	..	..	4	..
21	a	1368965	Panel	..	..	..	1
21	b	1368966	Panel	..	..	..	1
22		1366632	Bracket	..	..	..	4
23		1382056	Strip	..	..	2	..
24		292681	Washer	..	..	..	4
25		136681	Capscrew	..	..	..	4
26		1365290	Strip	AR	AR	..	..
27	c	1366609	Lock	..	..	1	..
27	d	1366614	Lock	..	..	1	..
28		1367111	Key	..	..	4	..
29		1366620	Lock Plate	..	..	2	..
30	c	1374065	Grip	..	..	1	..
30	d	1374066	Grip	..	..	1	..
31		1369471	Windshield	1	..	..	..
32		1369472	Windshield	..	1	..	..
33		136681	Capscrew	..	1	..	..
34		239503	Nut	..	1	..	..
35		292681	Washer	..	1	..	..
36	c	1369425	Sliding Window	..	..	1	..
36		1380754	Latch-Window	..	..	1	..
36		1380754	Latch-Window	..	..	1	..
37	d	1369427	Sliding Window	..	..	1	..
38	c	1369426	Window (Bottom)	..	..	1	..
39	d	1369428	Window (Bottom)	..	..	1	..
40		1366621	Rubber Stop	..	..	2	..
41		1368961	Cap	..	..	4	..
42		1366619	Hook (Rear)	..	..	2	..
43		1369474	Hook (Front)	..	..	2	..
44		1366627	Windshield	..	..	..	1
45		1365291	Molding	1	..	..	..
45		1374078	Molding	..	..	1	..
46		1365292	Strip	1	..	..	..
46		1374079	Strip	..	1	..	..

a Standard Height
b Raised Height
c Right Hand
d Left Hand

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CAB KIT (Figure 239)

WITH DOORS MOUNTED AGAINST OUT-BOARD SIDE OF OVERHEAD GUARD



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CAB KIT

WITH DOOR MOUNTED AGAINST OUT-BOARD SIDE OF OVERHEAD GUARD

KEY:
A: Kit- 895972 Front Panel
B: Kit-895973 Rear Panel
C: Kit-895974 Door
D: Kit 1356410 Std Height Top and 1356411 Raised Height Top

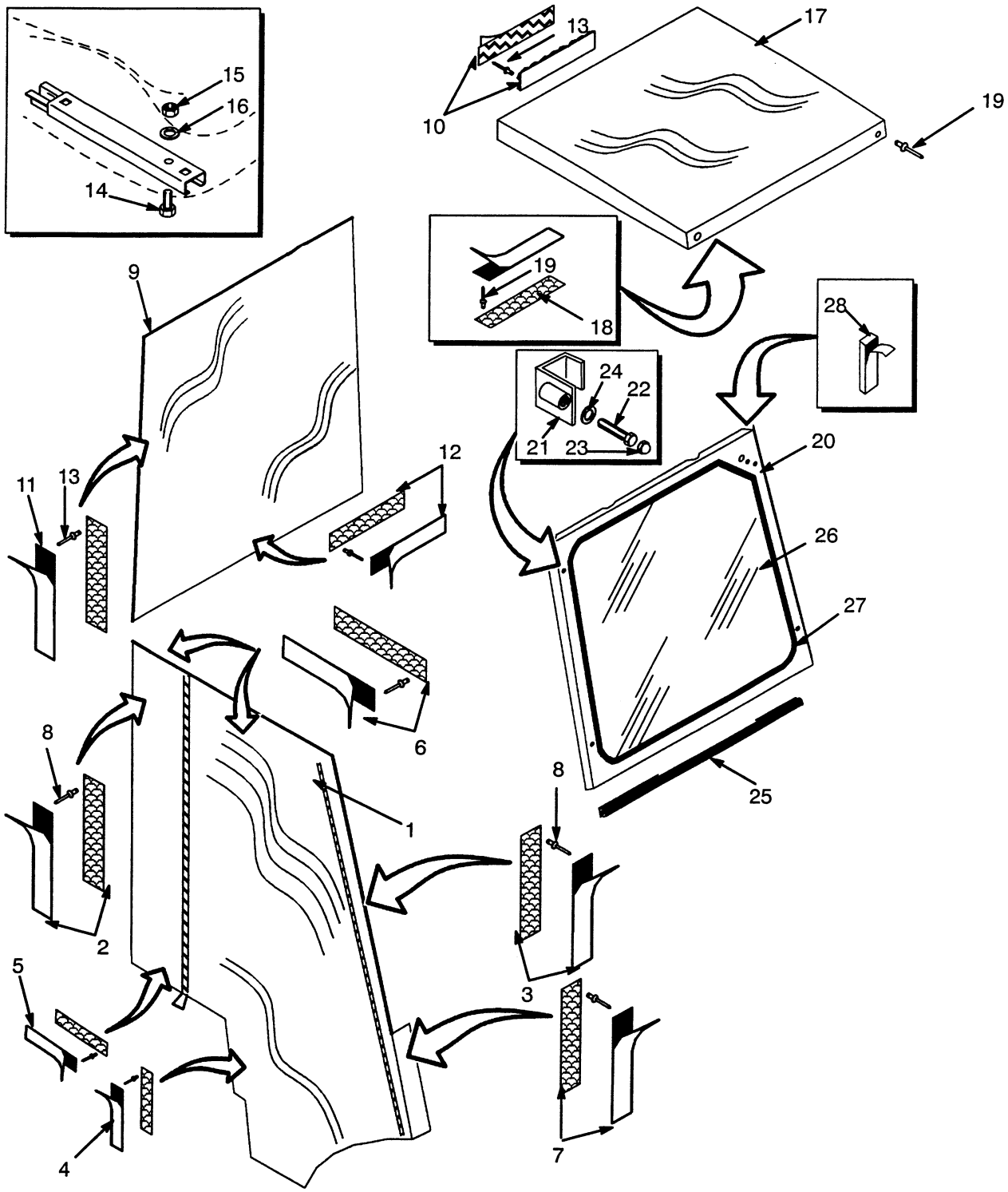
REF		PART NO.	NAME OF PART	QTY A	B	C	D
1		1393168	Panel	1	..	..	..
2		1393169	Panel	..	1	..	..
3		878133	Screen Retaining Clamp	4	4	..	..
4		1393167	Screw	4	..	..	..
5		878907	Washer	..	..	2	..
6		1365296	Cap	4	4	18	4
7		320157	Washer	4	4	4	..
8		878226	Door, RH	..	..	1	..
8		878227	Door, LH	..	..	1	..
8		1366619	Mounting Hook (Front)	..	..	4	..
8		1369474	Mounting Hook (Rear)	..	..	4	..
9		1366618	Gas Spring	..	..	2	..
10		1366624	Screw	..	..	6	..
11		878904	Striker Plate, LH	..	..	1	..
11		878903	Striker Plate, RH	..	..	1	..
12		878092	Plate, LH	..	..	1	..
12		878091	Plate, RH	..	..	1	..
13		1359510	Panel, LH	..	..	1	..
13		1359509	Panel, RH	..	..	1	..
14		1368957	Spacer	..	..	2	..
15		292509	Capscrew	..	..	2	..
16		320157	Washer	..	..	2	..
17		316835	Nut	..	..	2	..
18		1365291	Edge Protection	AR	..	..	..
19	a	1368965	Panel	..	..	..	1
19	b	1368966	Panel	..	..	..	1
20		1366632	Bracket	..	..	..	4
21		320157	Washer	..	..	..	4
22		878908	Lock Pin	..	..	2	..
23		292681	Washer	..	5	..	4
24		136681	Capscrew	..	1	..	4
25		1365290	Strip	AR	AR	..	..
26		878490	DoorLock Assembly, RH	..	..	1	..
26		1450744	Lever	..	..	1	..
26		878491	DoorLock Assembly, LH	..	..	1	..
26		1450744	Lever	..	..	1	..
26		1367111	Key	..	..	4	..
27		878906	Lock Plate	..	..	2	..
28		878143	Grip, RH	..	..	1	..
28		1374066	Grip, LH	..	..	1	..
29		1369471	Windshield	1	..	..	..
29		1369472	Windshield	..	1	..	..
30		1369425	Sliding Window, RH	..	..	1	..
30		1380754	Latch-Window	..	..	1	..
30		1369427	Sliding Window, LH	..	..	1	..
30		1380754	Latch-Window	..	..	1	..
31		1369426	Window (Bottom), RH	..	..	1	..
31		1369428	Window (Bottom), LH	..	..	1	..
32		878148	Seal	..	..	2	..
33		1366624	Capscrew	..	..	18	..
34		878233	Joining Rubber	..	..	2	..
35		1365292	Strip	AR	AR	..	..
36		1366627	Windshield	..	..	..	1
37		239503	Nut	..	1	..	..
38		1367639	Grommet	..	..	4	..
39		1334820	Capscrew	..	2	..	..
40		346656	Capscrew	..	2	..	..
41		878909	Hook	..	..	2	..
42		1382056	Strip	..	..	2	..

a Standard Height
b Raised Height

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CAB KIT (Figure 240)

PVC



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CAB KIT

PVC

REF	PART NO.	NAME OF PART	QTY
	1356412	Door Kit	2
1	1366625	PVC Side Panel (RH)	1
1	1366626	PVC Side Panel (LH)	1
2	1374068	Strip (40 mm x 900 mm)	1
3	1374072	Strip (20 mm x 1350 mm)	1
4	1374071	Strip (40 mm x 100 mm)	1
5	1374070	Strip (40 mm x 200 mm)	1
6	1374069	Strip (20 mm x 1229 mm)	1
7	1374073	Strip (40 mm x 410 mm)	1
8	1374074	Rivet	12
9	1356511	Rear Panel	1
10	1374076	Strip (40 mm x 888 mm)	1
11	1374077	Strip (40 mm x 1125 mm)	1
12	1374070	Strip (40 mm x 200 mm)	1
13	1374074	Rivet	8
14	136681	Capscrew	1
15	239503	Nut	1
16	292681	Capscrew	1
17	1356509	Top Panel (STD)	1
17	1356510	Top Panel (Raised)	1
18	1374075	Strip (40 mm x 1010 mm)	1
19	1374074	Rivet	2
20	895972	Front Panel Kit	1
20	1393168	Front Panel	1
21	878133	Retaining Clamps	4
22	1393167	Screw	4
23	1365296	Cap	4
24	320157	Washer	4
25	1365291	Strip	1
26	1369471	Windshield	1
27	1365292	Strip	1
28	1365290	Strip	1

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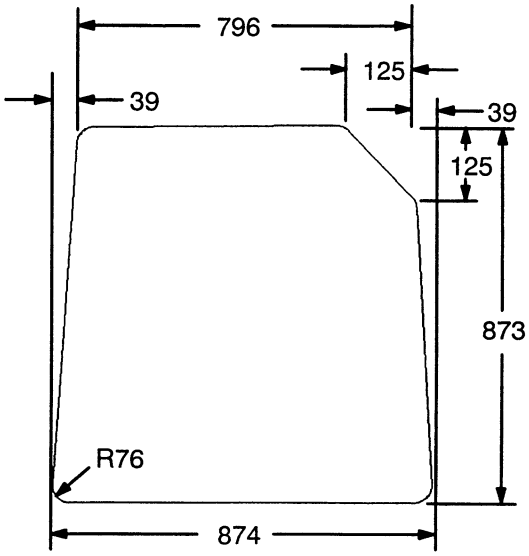
WINDOWS (Figure 241)

CAB

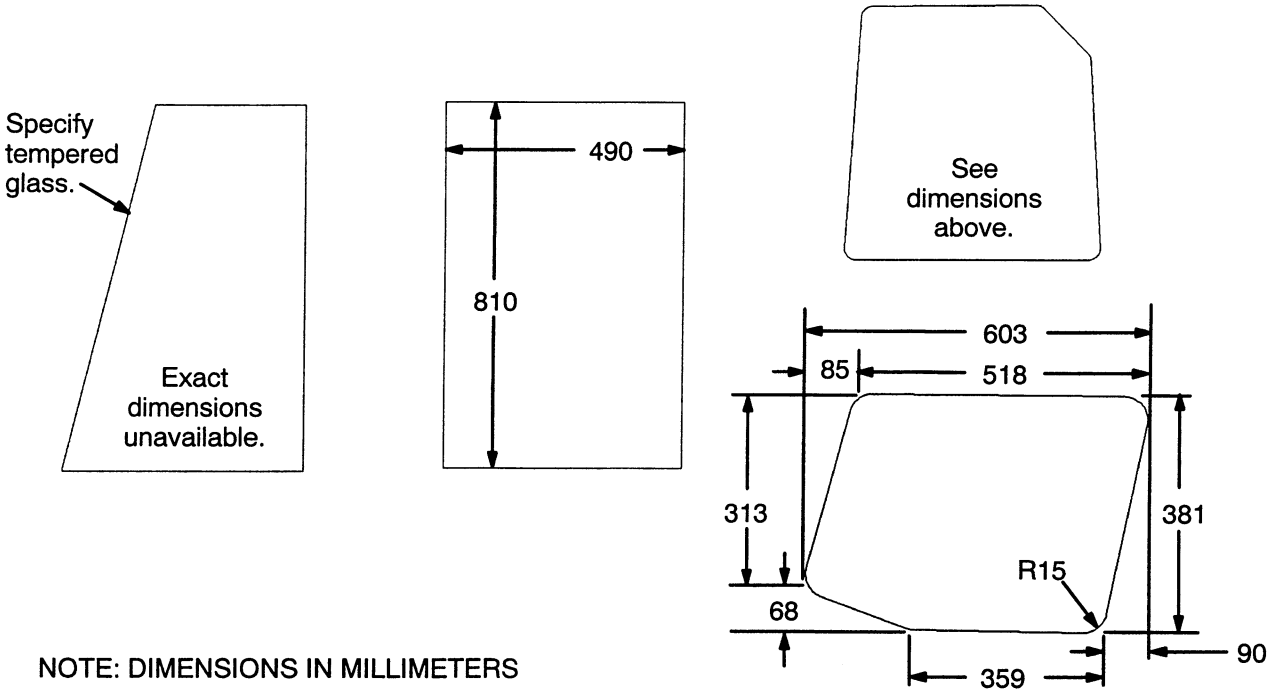
TOP SCREEN IS TO BE 6mm THICK SCRATCH-RESISTANT-COATED POLYCARBONATE

Exact dimensions unavailable.

FRONT GLASS IS TO BE 5.9-7.5 mm THICK SAFETY GLASS OR GREEN TINTED SAFETY GLASS PER ANSI Z26.1 WITH ALL EDGES TO BE GROUND PER SAE J673b



REAR AND SIDE GLASS IS TO BE 5.6-6.5 mm THICK SAFETY GLASS OR GREEN TINTED SAFETY GLASS PER ANSI Z26.1 WITH ALL EDGES TO BE GROUND PER SAE J673b

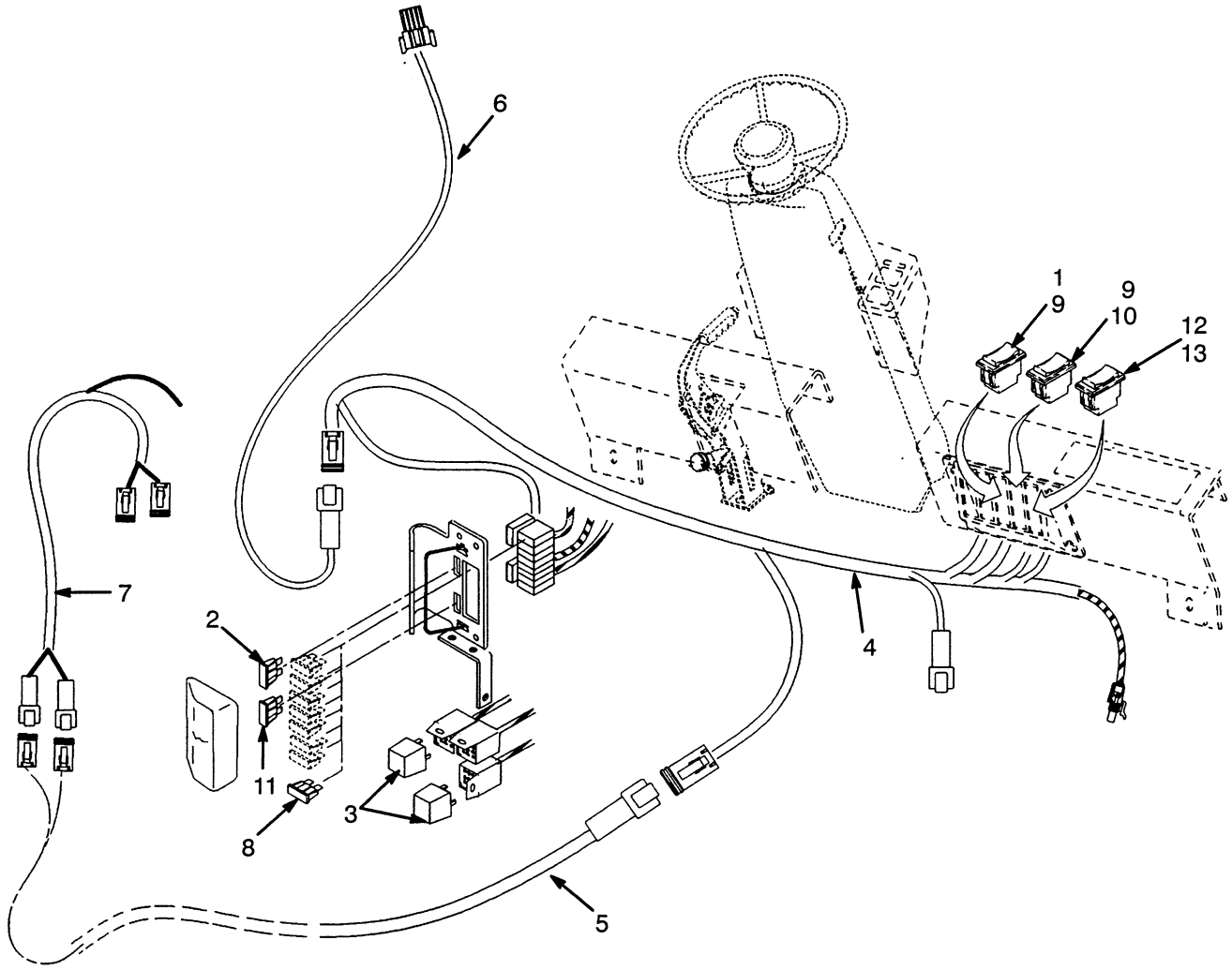


NOTE: DIMENSIONS IN MILLIMETERS

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HARNESS ROUTING (Figure 242)

CAB

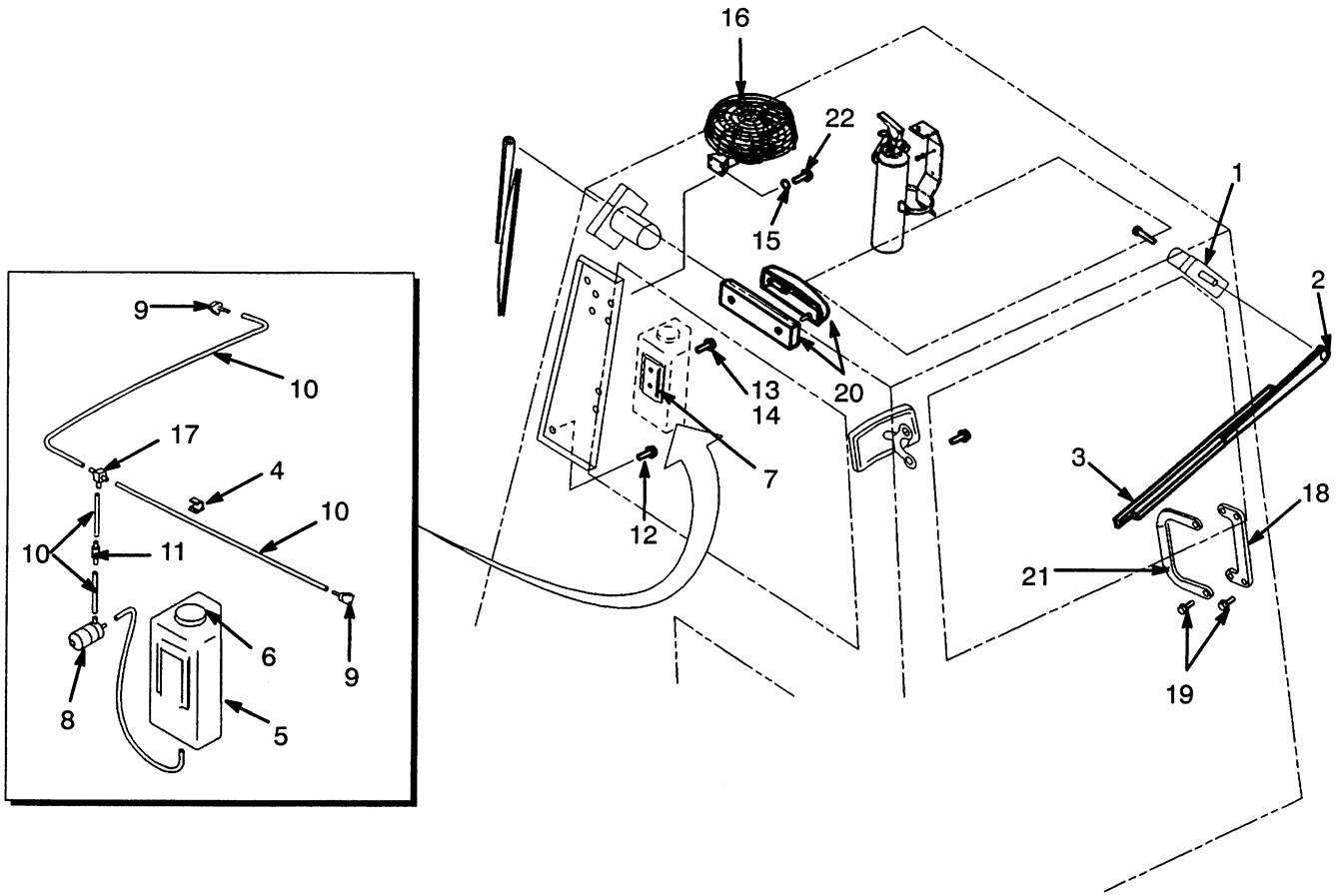


KEY:
A: Kit-Front Panel
B: Kit-Rear Panel
C: Kit-Heater

REF	PART NO.	NAME OF PART	QTY A	B	C
	1356407	Kit-Front Panel	1	..	..
	1356408	Kit-Rear Panel	..	1	..
	1356414	Kit-Heater	..	..	1
1	1301675	Cover	1	..	..
2	1300134	Fuse (25 Amp)	1	..	..
3	1301233	Relay	1	..	..
4	.....	Cowl Harness	1	..	..
		☞ Figure 248			
5	.....	Chassis Wire Harness	1	..	..
		☞ Figure 249			
6	.....	Wiper Wire Harness	1	..	..
		☞ Figure 246			
7	.....	Cab Wire Harness	1	..	..
		☞ Figure 247			
8	1320669	Fuse (30 Amp)	1	..	..
9	1301150	Switch	1	1	..
10	1366607	Lens	..	1	..
11	1310630	Fuse (15 Amp)	..	1	..
12	1331245	Switch	..	..	1
13	1366633	Lens	..	..	1

ACCESSORIES (Figure 243)

CAB



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ACCESSORIES

CAB

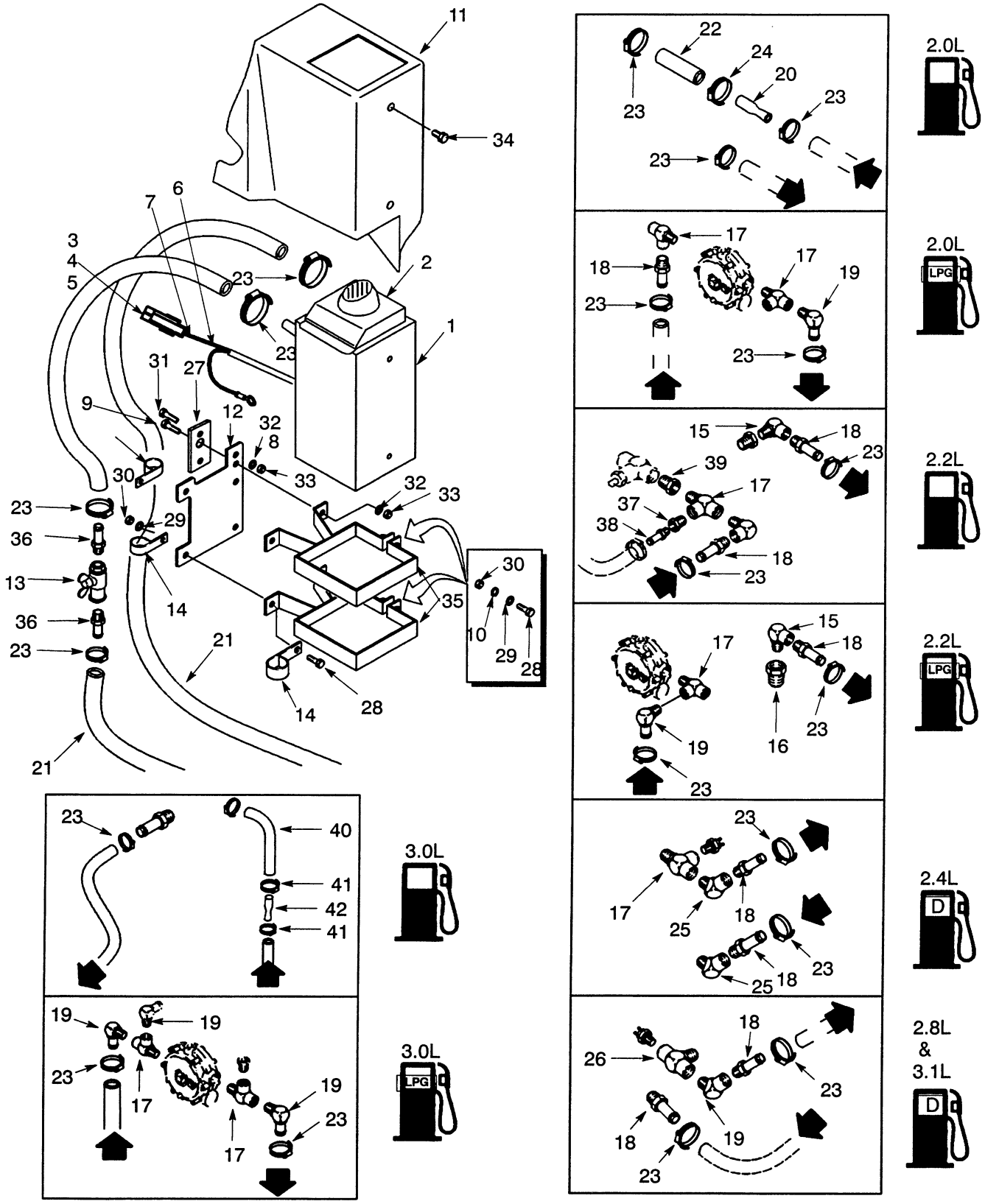
KEY:
A: Dome Light Kit 895978
B: Fan Assy Kit 895977
C: Front Panel Kit 895972 And Rear Panel Kit 895973
D: Washer Kit 895976

REF	PART NO.	NAME OF PART	QTY A	B	C	D
1	1365282	Wiper Motor	..	..	1	..
2	1365283	Wiper Arm	..	..	1	..
3	1365284	Wiper Blade	..	..	1	..
4	1366603	Clamp	..	..	..	10
5	1365286	Reservoir	..	..	..	1
6	1368137	Cap	..	..	..	1
7	1365287	Bracket	..	..	..	1
8	1365288	Pump	..	..	..	1
9	1365289	Windshield Washer	..	..	..	1
10	1366601	Hose	..	..	..	1
11	1365299	Check Valve	..	..	..	1
12	1368140	Bolt	2	..	..	..
13	320156	Washer	..	..	..	2
14	1368953	Screw	2	..	..	2
15	292679	Washer	4	4	..	..
16	1359562	Fan	..	1	..	..
17	1366600	Fitting	..	..	..	1
18	1366623	Bracket	..	..	1	..
19	1366624	Screw	2	..	4	..
20	1366622	Inner Lighting Kit	1	..	..	..
20	878141	Bracket	1	..	..	..
21	1343647	Handle (Standard)	..	..	2	..
22	878163	Screw	..	4	..	..

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HEATER (Figure 244)

CAB



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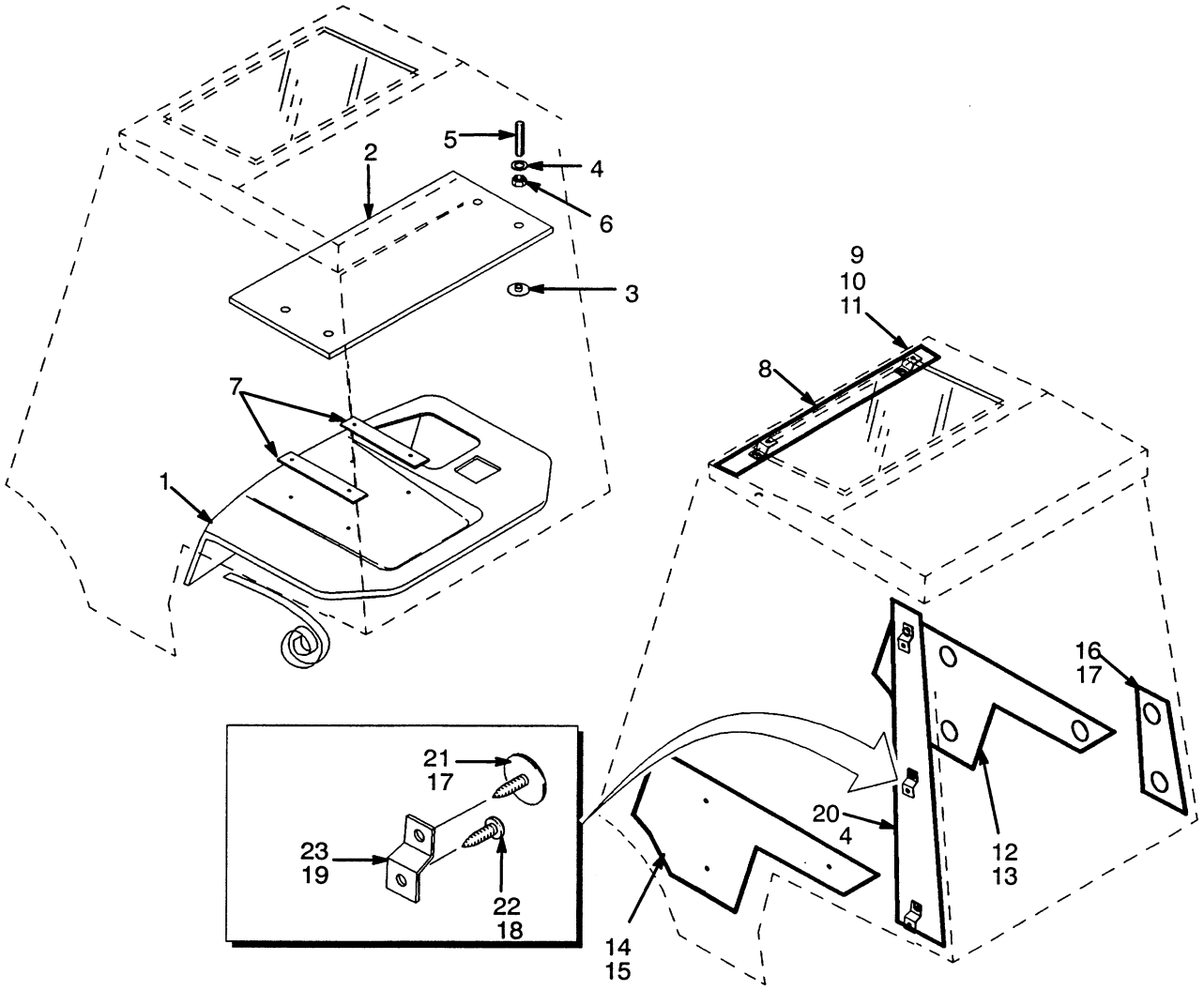
HEATER

CAB

REF	PART NO.	NAME OF PART	QTY
	1359565	Heater Assembly	1
1	1359564	Heater	1
2	1369429	Defroster	1
3	1330298	Connector	1
4	1334999	Terminal Pin	1
5	1329147	Cable Seal	1
6	16906	Conduit	AR
7	175944	Heat Shrink	1
8	320157	Washer	1
9	292502	Capscrew	1
10	292680	Washer	7
11	1359523	Cover	1
12	1368136	Plate	1
13	1368110	Valve	1
14	181089	Clamp	3
15	12837	Fitting	1
16	12817	Fitting	1
17	154452	Fitting	2
18	102919	Fitting	2
19	102898	Fitting	1
20	1368105	Adapter	1
21	114310	Hose	2
22	258344	Hose	1
23	166857	Clamp	6
24	130845	Clamp	2
25	12823	Fitting	2
26	17665	Fitting	1
27	1368952	Plate	1
28	287816	Capscrew	4
29	320156	Washer	4
30	136687	Nut	7
31	132861	Capscrew	1
32	292682	Washer	1
33	239503	Nut	1
34	1368968	Capscrew	2
35	1368967	Bracket	2
36	1368955	Fitting	2
37	63108	Fitting	1
38	17217	Fitting	1
39	16116	Fitting	1
40	1376666	Hose	1
41	130845	Clamp	2
42	1368105	Adapter	1

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CAB SOUND LINERS (Figure 245)



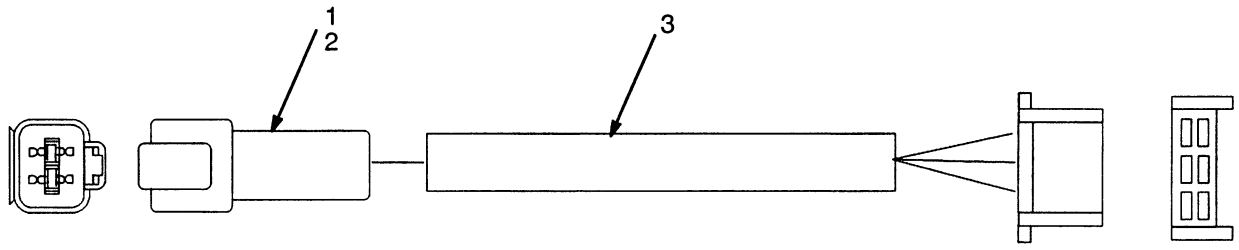
KEY:
A: Kit-Sound Liner
B: Kit-Low Noise

REF	PART NO.	NAME OF PART	QTY A	QTY B
	1356413	Kit-Sound Liner	1	..
	1365900	Kit-Low Noise	..	1
1	1368144	Cover	1	..
2	1359524	Headliner	1	..
3	1361087	Button	4	..
4	292681	Washer	4	..
5	1366628	Stud	4	..
6	316835	Nut	4	..
7	1368964	Plate	2	..
8	1368145	Cover	..	1
9	1368100	Clip	..	2
10	1368956	Bracket	..	2
11	1365294	Screw	..	2
12	1368146	Door Cover (RH)	..	1
13	1368100	Clip	..	3
14	1368147	Door Cover (LH)	..	1
15	1368100	Clip	..	3
16	1368148	Cover	..	1
17	1368100	Clip	..	2
18	1365294	Screw	..	2
19	1370942	Bracket	..	2
20	1368149	Cover	..	1
21	1368100	Clip	..	3
22	1365294	Screw	..	3
23	1370942	Bracket	..	3

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HARNESS (Figure 246)

WIPER

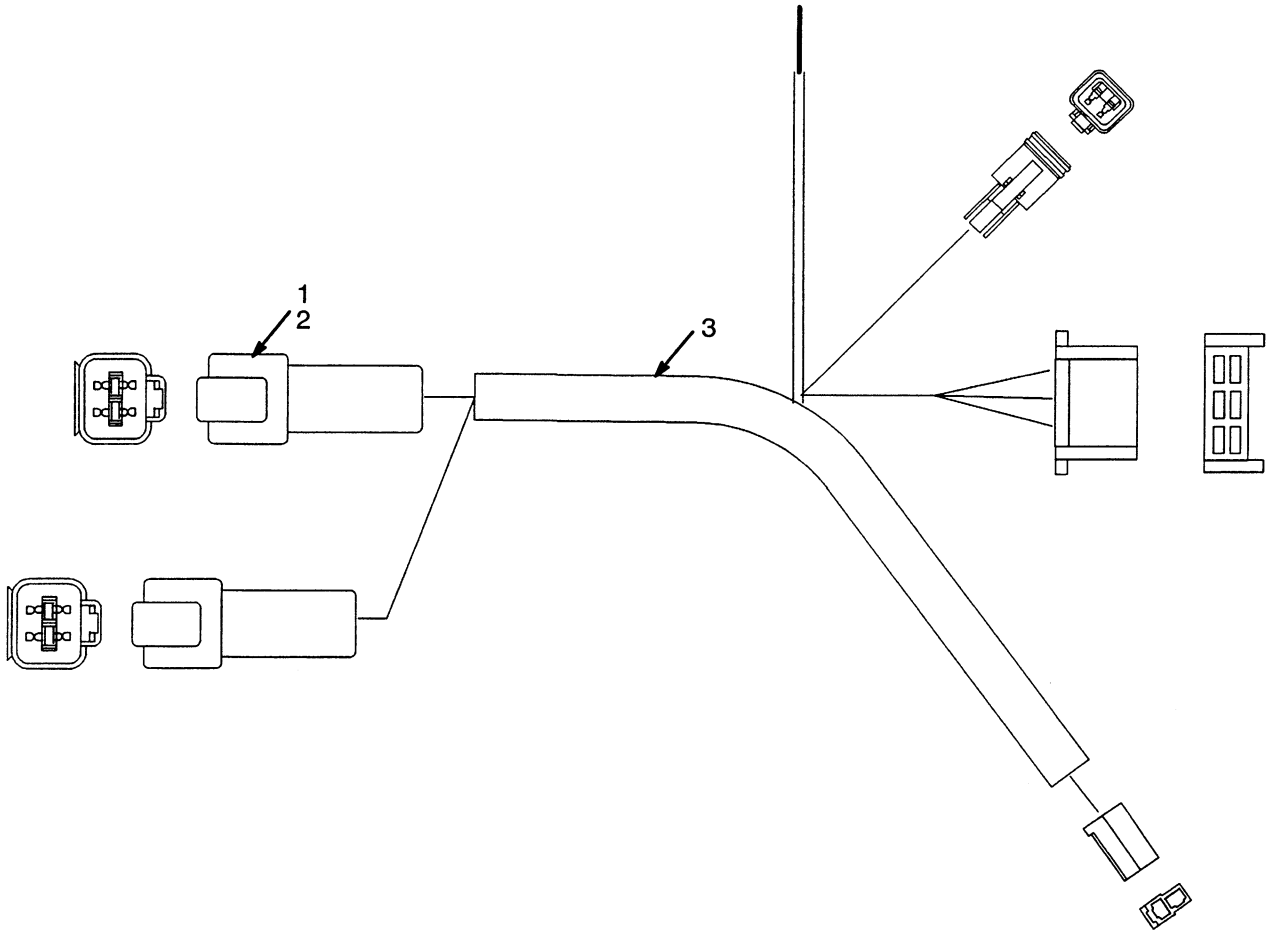


REF	PART NO.	NAME OF PART	QTY
	1359559	Harness	1
1	1330411	Connector	1
2	1330416	Lock	1
3	1359496	Wire Harness	1

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HARNESS (Figure 247)

CAB (REAR)

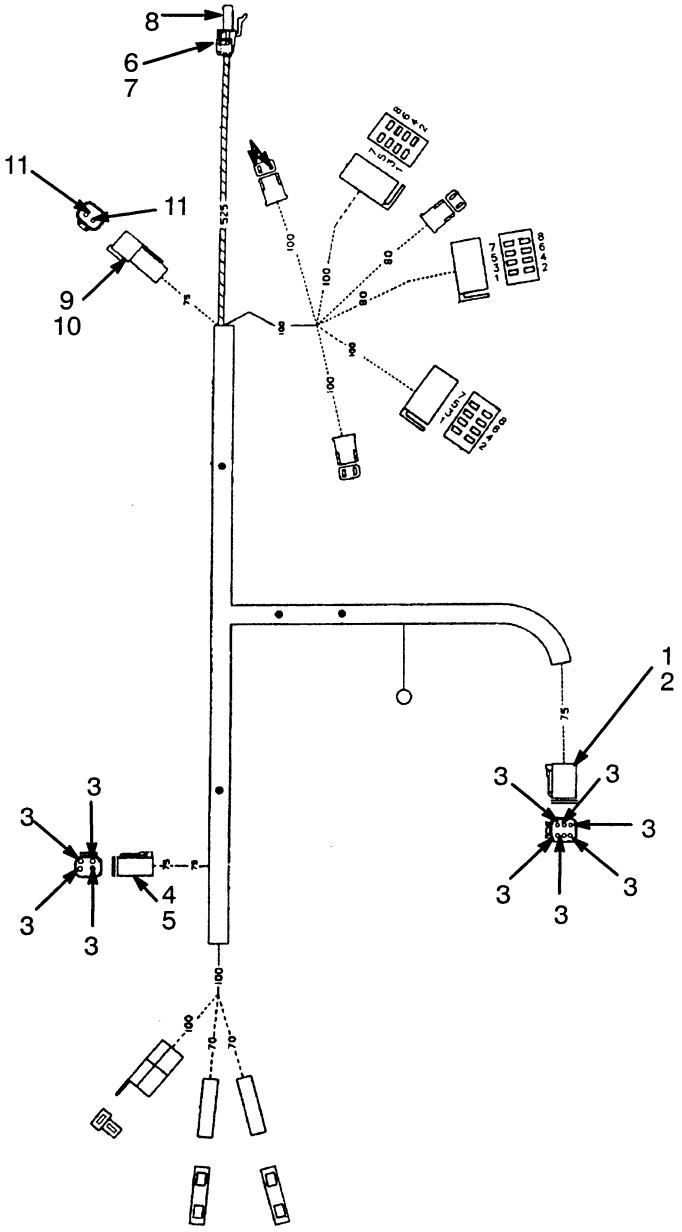


REF	PART NO.	NAME OF PART	QTY
	1359560	Harness	1
1	1330411	Connector	1
2	1330416	Lock	1
3	1359497	Wire Harness	1

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HARNESS (Figure 248)

CAB (COWL)



REF	PART NO.	NAME OF PART	QTY
	1455987	Harness	1
1	1330422	Connector	1
2	1330428	Lock	1
3	1330438	Socket	10
4	1330421	Connector	1
5	1330427	Lock	1

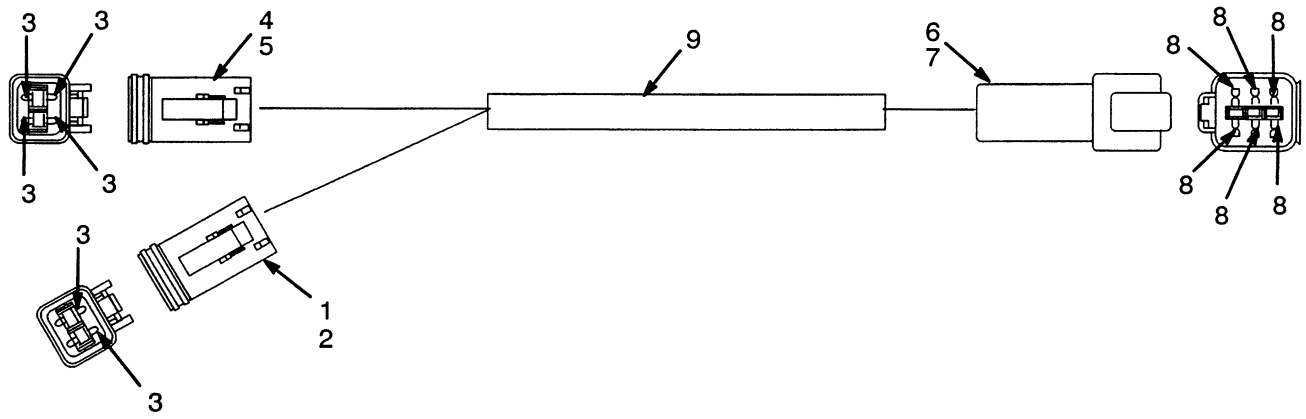
REF	PART NO.	NAME OF PART	QTY
6	1330299	Connector	1
7	1329147	Seal	1
8	1336173	Socket	1
9	1330409	Connector	1
10	1330414	Lock	1
11	1330437	Pin	2

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See Service Manual for service procedures

HARNESS-REAR (Figure 249)

CHASSIS

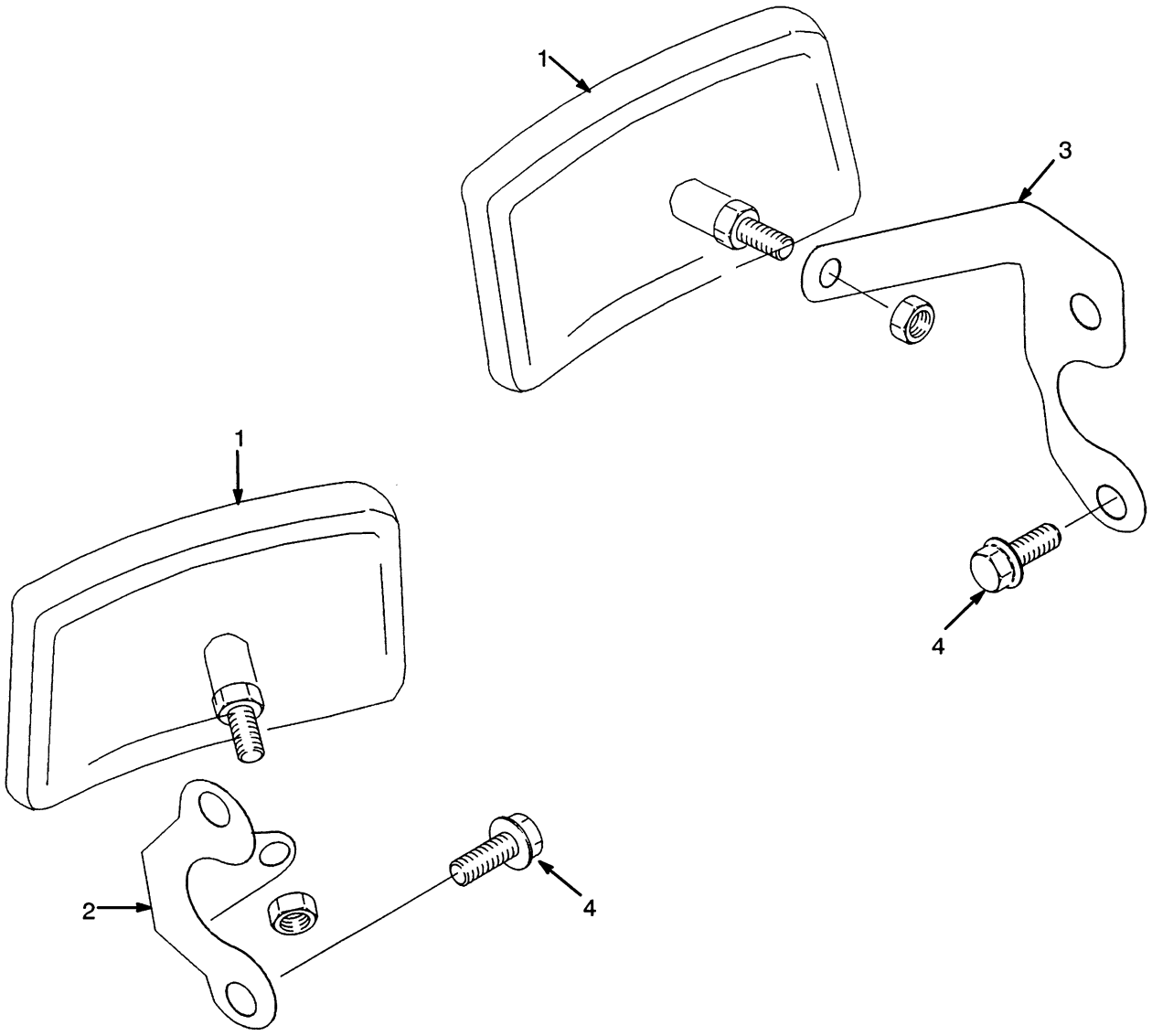


REF	PART NO.	NAME OF PART	QTY
	1361143	Harness	1
1	1330419	Connector	1
2	1330424	Lock	1
3	1330438	Socket	6
4	1330421	Connector	1
5	1330427	Lock	1
6	1330412	Connector	1
7	1330417	Lock	1
8	1330437	Pin	6
9	381919	Wire Covering	AR

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See Service Manual for service procedures

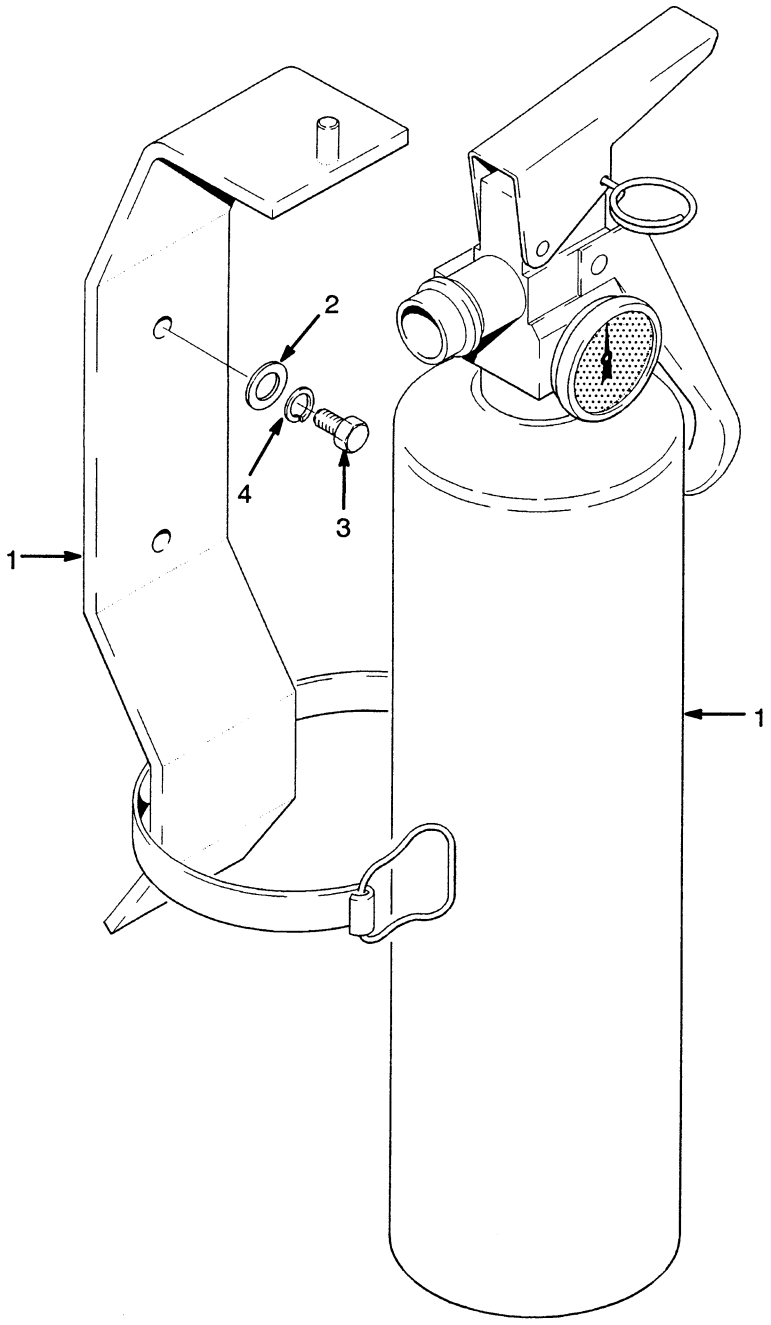
MIRROR (Figure 250)



KEY:
A: With Cab
B: Without Cab

REF	PART NO.	NAME OF PART	QTY A	QTY B
1	1301286	Mirror Assembly	2	2
2	1356520	Bracket	1	2
3	1361561	Bracket	1	..
4	316678	Rolling Screw	4	4

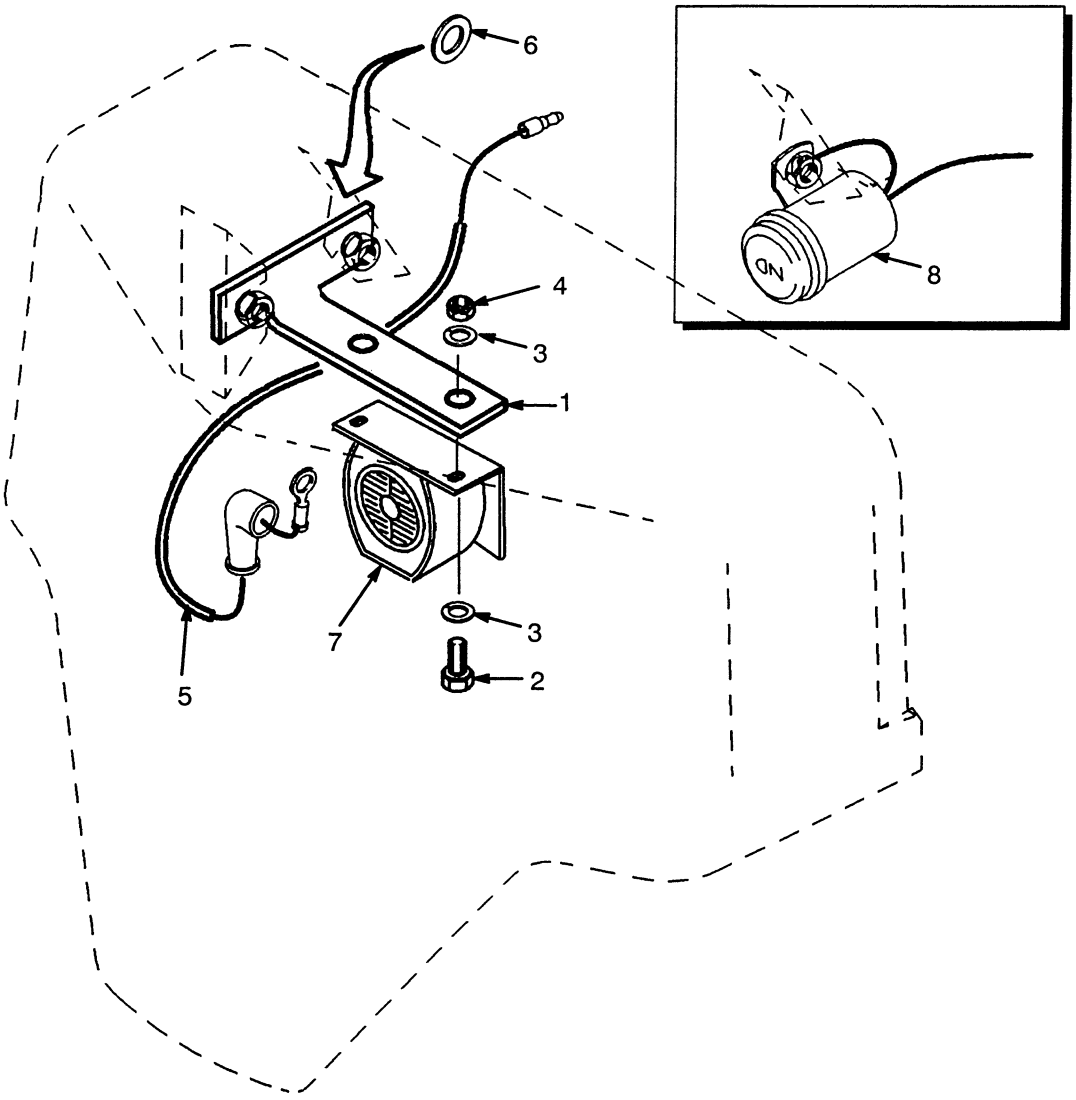
FIRE EXTINGUISHER (Figure 251)



REF	PART NO.	NAME OF PART	QTY
1	146540	Fire Extinguisher & Bracket	1
2	292679	Washer	2
3	296508	Screw	2
4	320155	Washer	2

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AUDIBLE ALARMS (Figure 252)



REF		PART NO.	NAME OF PART	QTY
1	a	1361126	Bracket	1
2	a	292500	Capscrew	2
3	a	296417	Washer	4
4	a	302399	Nut	2
5	a	1361552	Wire Harness	1
6	a	320158	Washer	AR
7		1350733	Audible Alarm (87 dbA)	1

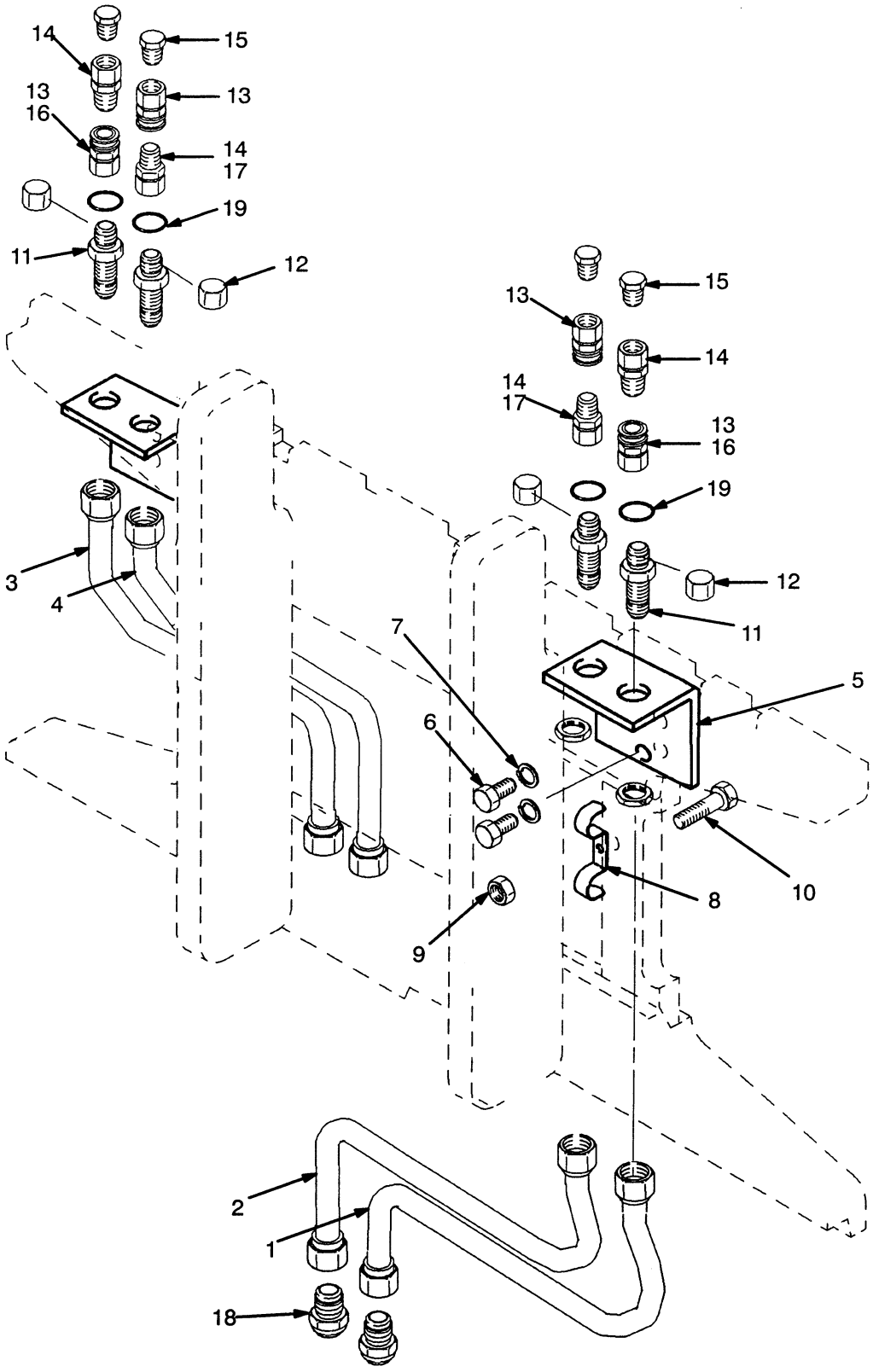
REF	PART NO.	NAME OF PART	QTY
7	1350734	Audible Alarm (97 dbA)	1
7	1350735	Audible Alarm (102 dbA)	1
7	1350736	Audible Alarm (107 dbA)	1
7	1339947	Audible Alarm (82-102 dbA)	1
8	1343892	Audible Alarm (90 dbA)	1

a Included in Kit 1375597

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AUXILIARY TUBE EXTENSION KIT (Figure 253)

TWO STAGE LIMITED FREE-LIFT



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AUXILIARY TUBE EXTENSION KIT

TWO STAGE LIMITED FREE-LIFT

MAST	KIT NO.	THIRD FUNCTION		FOURTH FUNCTION	
		Ref 1 Tube	Ref 2 Tube	Ref 3 Tube	Ref 4 Tube
B507	1362416 [d]1377959	1370489 [d]1377935	1370488 [d]1377936	----	----
	1362417	----	----	1370490	1370491
B562	1362418 [d]1377960	1370493 [d]1377937	1370492 [d]1377938	----	----
	1362419	----	----	1370495	1370494

REF		PART NO.	NAME OF PART	QTY
1	a	....	Tube	1
2	a	....	Tube	1
3	a	....	Tube	1
4	a	....	Tube	1
5	b	1370479	Bracket	1
5	d	1377925	Bracket	1
6	b	136681	Capscrew	2
7	b	292681	Lockwasher	2
8	b	114369	Clamp	1
8	d	1377928	Clamp	1
9	b	313828	Nut	1
10	b	296484	Capscrew	1
11	b	16447	Fitting	2
11	d	16448	Fitting	2

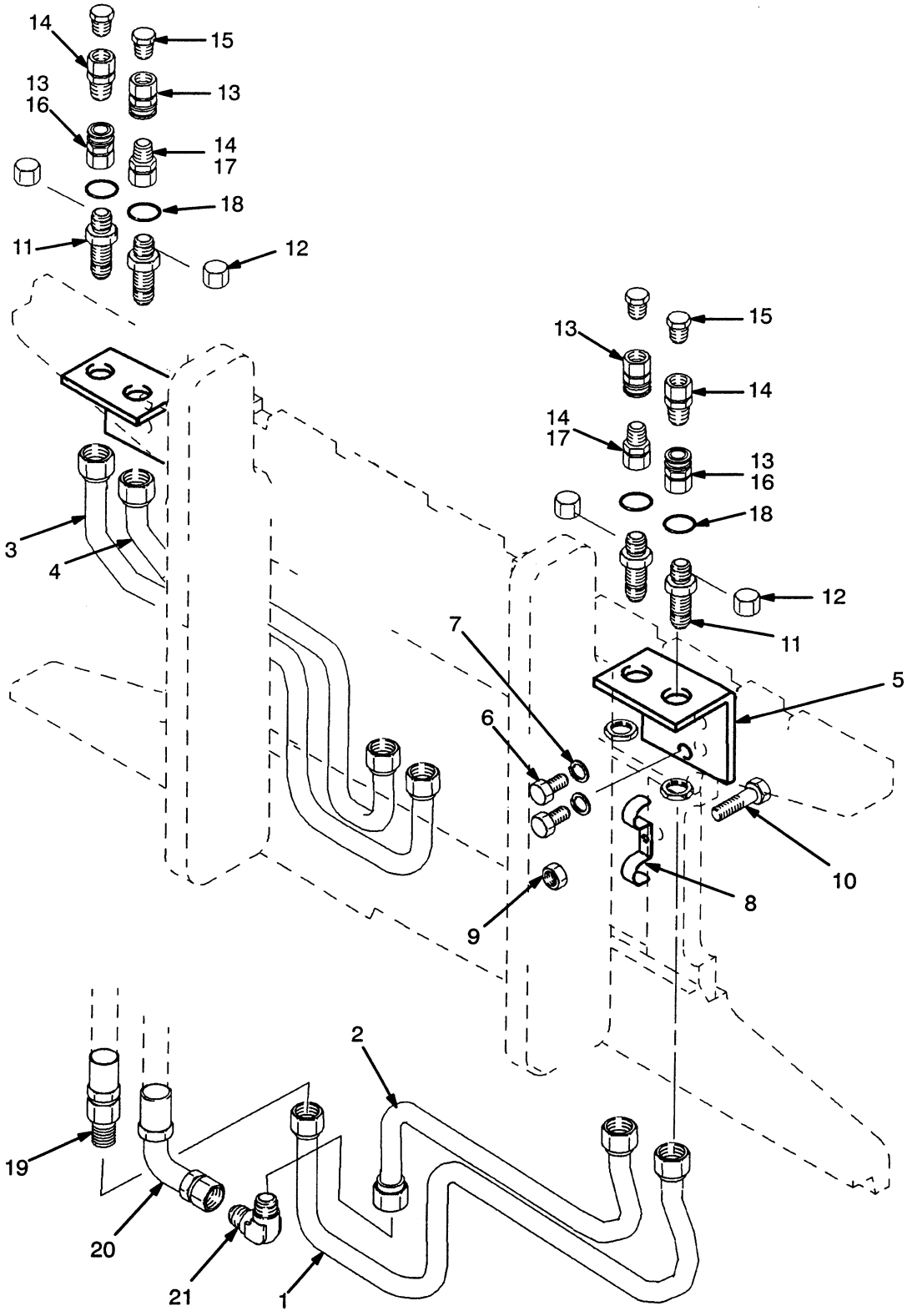
REF		PART NO.	NAME OF PART	QTY
12	b	16693	Cap	2
12	d	16925	Cap	2
13	c	1362422	Socket	2
14	c	1362423	Nipple	2
15	c	16933	Plug	2
16	c	229348	Cap	1
17	c	229349	Plug	1
18	d	1377945	Fitting	2
19		16483	O-Ring	2

a ☞ Table Above
b Included In Kit
c Included In Quick Disconnect Kit 1362426
d With Rotator

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AUXILIARY TUBE EXTENSION KIT (Figure 254)

TWO STAGE AND THREE STAGE FULL FREE-LIFT



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AUXILIARY TUBE EXTENSION KIT

TWO STAGE AND THREE STAGE FULL FREE-LIFT

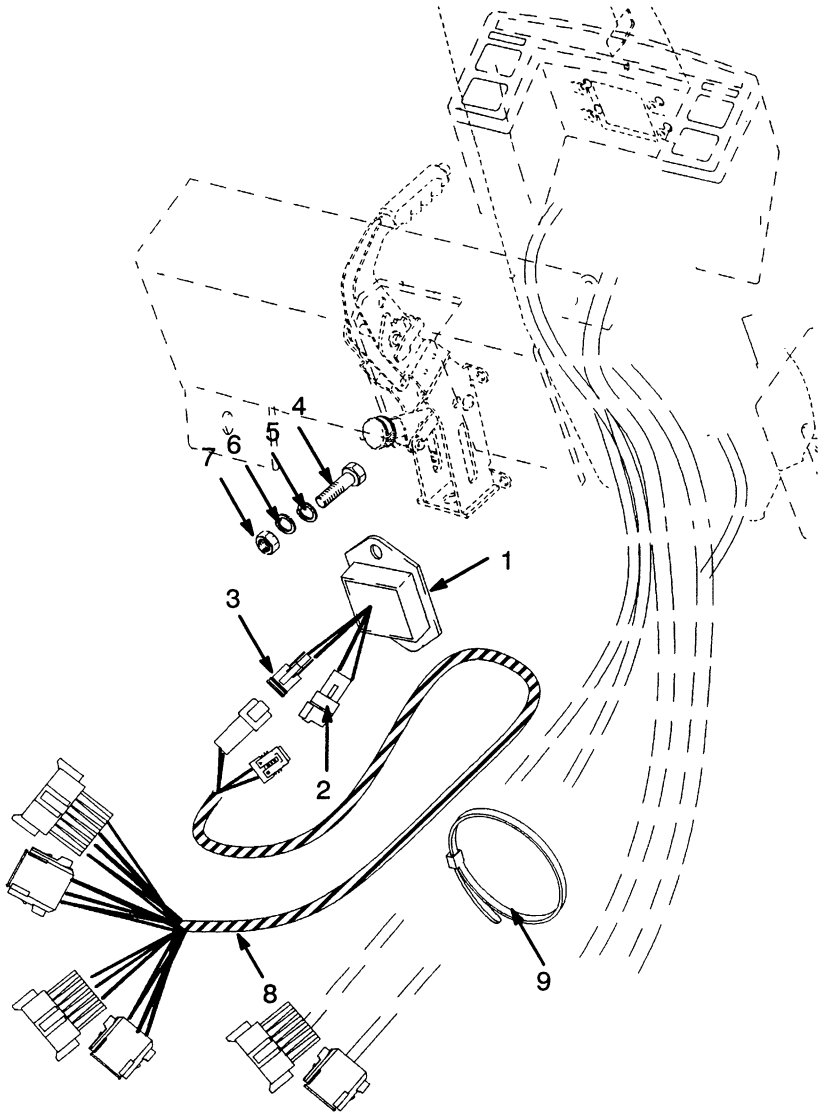
MAST	KIT NO.	THIRD FUNCTION		FOURTH FUNCTION	
		Ref 1 Tube	Ref 2 Tube	Ref 3 Tube	Ref 4 Tube
B508 B509	1362406 [d] 1377955	1370483 [d] 1377926	1370482 [d] 1377929	----	----
	1362407	----	----	1370481	1370480
B563 B564	1362408 [d] 1377956	1370486 [d] 1377927	1370484 [d] 1377930	----	----
	1362409	----	----	1370487	1370485

REF		PART NO.	NAME OF PART	QTY
1	a	....	Tube	1
2	a	....	Tube	1
3	a	....	Tube	1
4	a	....	Tube	1
5	b	1370479	Bracket	1
5	d	1377925	Bracket	1
6	b	136681	Capscrew	2
7	b	292681	Lockwasher	2
8	b	114369	Clamp	1
8	d	1377928	Clamp	1
9	b	313828	Nut	1
10	b	296484	Capscrew	1
11	b	16447	Fitting	2
11	d	16448	Fitting	2
12	b	16693	Cap	2
12	d	16925	Cap	2
13	c	1362422	Socket	2
14	c	1362423	Nipple	2
15	c	16933	Plug	2
16	c	229348	Cap	1
17	c	229349	Plug	1
18		16483	O-Ring	2
19	de	3009159	Fitting	1
19	df	316879	Fitting	1
20	de	1377949	Fitting	1
20	df	1377948	Fitting	1
21	d	14480	Fitting	1

a ☞ Table
b Included In Kit
c Included In Quick Disconnect Kit 1362426
d With Rotator
e Parker Hose
f Synflex Hose

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POWERTRAIN PROTECTION SYSTEM (Figure 255)



REF		PART NO.	NAME OF PART	QTY
1	a	1375822	Powertrain Protection Module	1
2		1330411	Connector	1
3		1329150	Connector	1
4	a	302248	Capscrew	2
5	a	320155	Washer	2
6	a	292679	Washer	2
7	a	292668	Nut	2
8	a	.....	Harness-Powertrain Protection ☞ Figure 256	1
9		1352606	Strap Clamp	AR

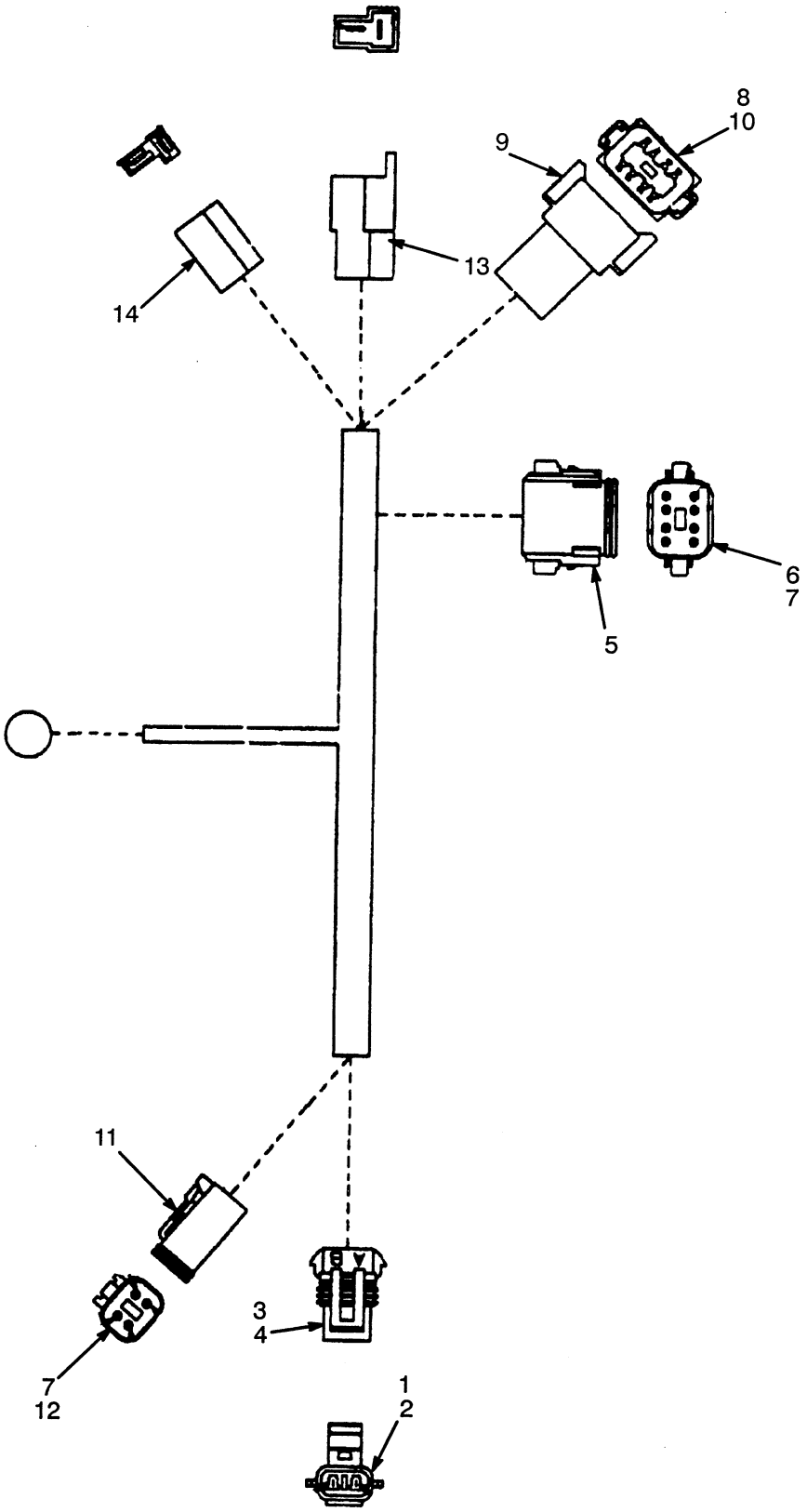
a Included in Kit 1388305

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NOTES

HARNESS (Figure 256)

POWERTRAIN PROTECTION



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See Service Manual for service procedures

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HARNESS

POWERTRAIN PROTECTION

REF	PART NO.	NAME OF PART	QTY
	1388304	Harness-Powertrain Protection	1
1	1329147	Seal	2
2	1329148	Terminal	2
3	1329152	Connector	1
4	1329151	Lock	1
5	1330423	Connector	1
6	1330429	Lock	1
7	1330438	Socket	10
8	1330437	Pin	6
9	1330413	Connector	1
10	1330418	Lock	1
11	1330421	Connector	1
12	1330427	Lock	1
13	181047	Connector	1
14	181048	Connector	1

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142	172	17	14386	207	39		145	43		309	15		213	30
	317	18		53	10		197	8		317	19	16187	201	67
7882	40	26	14500	299	39		202	97	15223	377	9		205	79
	47	17	14503	197	9		205	31	15225	311	29		208	71
	55	20	14506	303	4		207	35	15227	311	39	16192	131	2
11276	305	4	14592	299	28		271	24	15236	337	14		133	2
12445	163	1	14603	353	15		277	23		361	3	16374	55	31
12490	141	30		409	17	15154	111	40		362	3	16379	53	37
	145	9	14604	287	23		170	21		394	3	16480	343	28
	147	30		289	23		55	26		426	3		345	28
12822	111	4	14691	325	33		55	40		427	3	16481	299	19
12824	115	18	14692	430	22	15155	170	23	15290	305	29		325	37
	117	54	14761	153	18		202	94	15303	305	22	16482	287	30
12838	320	9	14899	320	8		205	34	15314	287	35		289	30
12840	131	54	15001	5	26		207	59		289	35		299	28
12844	131	41	15002	165	5		253	12	15347	287	29		299	32
12891	287	40		168	27		263	43		289	29	16483	287	14
	289	40		170	20		45	24		325	36		289	14
	358	3		171	6		53	22	15351	113	23		299	21
	359	3		171	6	15156	125	10		115	17	16484	287	31
	423	3		197	10		133	49		117	53		289	31
	424	3	15004	170	25		153	4		125	2		299	5
12894	300	1	15006	117	57		201	49		127	16		303	3
	301	1		121	14		205	49	15483	111	37		339	38
12898	5	44	15025	317	7		207	22		129	23		339	39
	5	44	15032	287	12		309	23		287	13		339	45
12928	53	33		289	12		53	16		289	13		341	38
12947	125	25		299	31	15157	49	19	15880	386	11		341	39
12949	343	22	15034	111	13	15163	251	10		390	11		341	45
	343	36	15039	251	8	15175	9	39		418	11		343	12
	343	52		263	10	15200	168	15		422	11		345	12
	345	22	15049	251	5		171	11	15920	117	56	16485	325	50
	345	36		317	33		172	5		121	16		325	51
	345	52	15052	202	96		339	10	15923	55	18		325	51
13668	205	7		205	32		341	10	15931	5	41		334	5
13957	311	37		207	36		353	4		5	46		335	5
14303	129	7		271	14		358	9	15932	299	50		339	46
	131	26		277	22		359	10	15942	35	16		341	46
	133	30	15055	343	3		377	8		78	19		353	20
	135	7		345	3		379	23	15962	41	12		353	22
	137	7		55	52		381	23	15964	129	30		377	25
14349	117	16	15056	125	11		391	10		131	56		377	26
	320	10		53	36		392	10		133	27		379	5
14358	113	9	15134	125	9		411	23		137	8		381	5
	115	34		133	48		413	23	16009	305	10		409	15
	117	26		309	24		423	9	16134	111	38		409	16
	119	39		40	8		424	10	16151	211	34		409	22
	125	19		51	6	15212	165	2		305	23		411	10
	127	7	15136	253	7		168	2	16155	125	26		411	3
14385	63	10		257	7		170	27	16167	197	49		413	10
	81	27	15151	251	4		171	2		201	67		413	3

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	409	17		183	53		207	47		381	30		407	3
16487	287	23	16882	353	27		254	42		381	30	58903	311	35
	289	23		377	29		9	38		411	25	59229	357	11
16541	339	39		409	19	18497	253	34		411	25		383	10
	341	39	16897	317	8	18498	263	42		413	25		414	7
16556	299	19	16906	237	34		9	38		413	25		415	7
	325	37	16923	325	30	18500	202	84	39348	355	7	59583	337	9
16558	325	31		339	47		211	15		357	7	60949	311	6
16560	325	50		341	47		211	39		383	13	63108	113	47
	325	51	16982	299	26		211	47		386	13		115	30
	409	15		353	17		211	51		390	13		117	30
16568	303	3		377	22		213	34		418	13		119	30
16578	353	22		409	18		213	44		422	13		119	6
	377	25	16987	339	37		253	2	39352	311	12	63899	129	27
	409	16		341	37		257	2	39714	305	28		131	53
16598	153	3	17059	339	36		35	20	43207	291	25		133	66
16703	145	42		341	36	18508	53	14		293	25		135	39
16704	198	90	17167	303	3	18515	170	24	43307	291	26		137	45
16706	343	13	17176	119	21		202	95		293	26	68968	20	2
	343	27	17197	339	45		205	33	44308	300	2		21	7
	343	45		341	45		208	60		301	2		57	2
	345	13	17215	113	12		253	35	44542	311	19		58	2
	345	27		115	31		257	14	45733	295	23	69029	311	28
	345	45		117	29		263	41		297	23	69392	197	50
16708	197	6		119	29		9	27	46388	337	7		201	68
16709	55	39	17216	197	48	18518	253	32	53162	173	14	69815	113	48
16712	113	63		201	66	18521	45	23		181	44	78010	325	26
16719	163	4		205	78	18530	254	40		183	51	78584	295	22
16743	317	32		208	70	18535	201	47	54123	53	34		297	22
16746	131	55	17217	113	13		205	82	55434	361	11	78826	291	30
16751	141	20		115	32		208	64		394	11	80952	300	9
	147	20		117	42	18538	53	19		426	11		301	9
16788	153	17		119	7	18546	263	35	55580	261	21	85766	133	53
16805	133	47	17309	303	5	18727	9	26		263	17	85785	127	29
	53	15	17314	201	68	18824	309	33		265	26	85885	305	7
16814	53	40		205	80		325	56	57568	173	9	86377	253	22
16815	125	8		208	72	21420	305	24	57664	343	24	86510	181	19
	309	22	17315	303	6	26758	320	16		343	42		183	19
16825	53	21	17324	125	4		322	13		343	56		317	31
16836	170	22	17343	131	42	30273	311	21		343	9	89220	133	12
	205	73		135	33	30492	248	13		345	24		207	9
	207	58		137	32	30915	202	74		345	42	90263	386	11
16849	163	20	17635	379	28	32907	117	45		345	56		390	11
16863	111	12		381	28	33657	305	5		345	9		418	11
	113	19	17636	131	23	37752	351	10	58901	349	8		422	11
	115	35	17756	339	46		351	8		351	3	92861	355	11
	117	22		341	46		351	9		371	8		383	10
	119	43	17789	202	75		373			373	8	97497	277	11
	125	43	18082	271	41		373			375	3	97498	277	10
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98525	311	16	128408	211	21	132131	55	14		201	7		295	19
101625	201	22	128835	263	16	132473	122	10		202	83		297	19
	201	36		265	27		141	1		205	52		309	2
	205	22	128838	263	3		145	2		207	27		317	24
	325	34	128852	263	4		147	1		211	14		411	9
101809	111	5		265	28	132861	254	45		213	8		413	9
104506	349	3	129358	353			339	32		263	27		61	14
	371	3	129361	377			341	32		282	10	137154	305	11
	373	3	129387	349	7	133469	55	19		55	17	137282	287	15
	405	3		351	4	133651	23	24	136692	111	11		289	15
109919	153	10		371	7	134436	287	30		113	40		295	37
110174	325	28		373	7		289	30		172	18		297	37
110322	325	32		375	4		299	32		172	26	137283	295	4
112989	119	22		391	4	134675	361	12		23	15		297	4
	119	26		392	4		394	12		287	56	137852	113	18
	151	9		405	7		426	12		289	56		115	22
	153	33		407	4	134812	271	44		309	4		117	17
	153	39	129563	131	13	135158	295	25		317	22		117	20
	153	6		183	25		297	25		320	4		119	17
	155	9		205	72	135588	353			339	3		125	34
113011	115	25		207	23		377			341	3		127	11
	117	21	129995	131	38	135634	377			58	14		135	31
	119	40	130825	313	4	135685	173	2		5	39		137	30
	127	26	130845	113	14	136516	198	91		61	15		168	17
114312	155	33		115	21		207	9	136703	287	20		171	4
	173	17		115	29	136681	111	27		289	20		183	36
	208	83		117	18		113	55		317	13		251	12
	233	56		119	13		131	8	136704	197	3		325	35
119074	137	44		119	34		133	7		299	33	138075	455	30
119236	23	27		119	37		135	22		353	13	138333	202	74
119388	202	80		125	29		137	21		365	2	138573	181	20
	205	63		127	8		155	17		379	8		183	20
	207	44		153	15		155	22		381	8	138880	129	28
120857	151	20		155	20		168	5		397	21		131	53
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122175	197	23	131358	353	7		170	15		133	55		135	39
	201	45		358	7		181	32		198	79		137	45
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	207	17		377	11		211	3		309	9	140660	303	7
124297	321	7		379	17		211	3		321	6	145172	49	5
125305	115	28		381	17		278	5		325	11	145173	49	7
	117	40		391	8		339	59		339	21	145176	55	33
	119	36		392	8		339	59		339	21	145177	55	34
125847	151	3		409	3		341	53		341	21	145639	253	13
	153	28		411	32		341	53		341	21		253	33
	155	3		413	32		379	14		397	7		9	37
126358	263	25		423	7		381	14		430	8	145641	55	45
127045	23	11		424	8	136687	113	37		5	30	145831	151	18
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147972	414	6	160602	47	7	169965	47	6	180217	411			377	26
	415	6	160773	129	29	169966	47	6	181045	273	32		409	22
147973	313	3		131	52	169967	47	6	181046	271	43	189609	47	14
	386	10		133	65	170554	257	13		273	33	189614	49	33
	390	10	161003	353	25	170658	11	22	181763	117	15	189756	281	6
	418	10		377	5	171098	325	27	181766	299	30	190380	257	1
	422	10		379	20	171350	353	29	182332	379		190383	111	43
148827	47	18		381	20		377	31	182343	377			197	52
148962	211	46		411	20		379	38		379			197	59
	35	6		413	20		381	38		411			201	35
149805	47	8	161059	379			411	34	184761	377	20		202	70
149814	47	7		411			413	34	186061	313	11		205	35
149816	47	7	161252	170	18	173247	23	31		337	12		207	12
149819	55	25	161617	171	12		61	10		355	15		208	67
149846	55	37	162836	165	1	174413	19	16		357	15		208	74
149847	55	38		168	1	175323	117	50		383	16		211	40
149857	49	9		170	26		121	13		386	17		211	45
149858	49	9		171	1	175347	113	22		390	17		211	50
149864	49	2	163970	311	22		115	36		414	12		213	33
149867	49	10	164017	55	5		117	24		415	13		213	43
149868	49	4	164022	47	10		119	42		418	17		251	15
149888	49	28	164023	47	21		127	15		422	17		253	3
149889	49	18	164050	49	39		127	32	187388	355	8		257	3
149898	55	21	164488	133	20	176451	131	4		357	8	190887	386	12
149929	53	8	164639	311	20		133	4		383	7		390	12
149934	55	50	164840	386	10	176452	325	43		386	7		414	11
149976	55	8		390	10	176640	181	29		390	7		415	11
149977	49	13		418	10		183	29		418	7		418	12
149978	49	37		422	10		253	30		422	7		422	12
153931	211	2	166857	131	46		263	38	188516	343	16	191845	53	23
	213	2		151	21		287	19		343	31	193008	115	24
153932	213	11		153	25		289	19		343	48		117	27
153933	197	39		153	37		321	5		345	16		119	32
154065	11	12		155	24		339	26		345	31		151	25
154066	11	12	168389	325	27		339	26		345	48	193772	113	5
154067	11	12	168718	113	15		341	26	188518	343	18		287	48
154355	379	6		115	33		341	26		343	33		289	48
	381	6		117	28	176910	211	21		343	54	195769	20	3
	411	11		119	31	177461	35	9		345	18		57	3
	413	11		119	8	177521	283	9		345	33	195771	117	14
154375	337	6		127	9	177563	55	36		345	54		121	6
156194	311	15		129	16	177894	197	38	188519	343	19		133	42
156195	311	14		135	16		211	1		343	34		141	37
157554	181	21		137	29	178119	113	57		343	50		145	45
157704	135	40		151	26		411	6		345	19	196297	111	2
	137	46		23	2		413	6		345	34	196395	181	59
159942	55	7		61	2	179920	263	34		345	50		183	38
159973	47	20	169718	55	47	180029	379		188534	343	2	196898	19	14
159974	51	15	169719	55	46	180057	353			345	2		263	32
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	135	12	204781	145	4	210183	313	8		297	12		111	26
	137	13	204787	122	16	214121	141	28		360	3		113	43
	181	22		125	5		147	28		393	3		119	12
	197	53		141	15	214364	377	19		425	3		127	33
	197	7		145	22		398	27	221773	295	15		129	18
	202	71		147	15		409	11		297	15		131	7
	202	98	204790	122	15	214444	353		222029	9	36		133	63
	205	30		141	36	215211	349	5	222381	339	38		133	8
	208	63		145	21		371	5		341	38		135	18
	208	75		147	36		373	5	222413	325	51		137	18
	208	81	204796	141	27		405	5	222443	287	14		168	7
	277	24	204797	141	26	216877	361	9		289	14		172	8
197345	379			147	26		362	9		299	21		197	29
	411		204824	141	24		394	9	222477	325	17		201	29
197853	19	15		145	31		426	9	222480	135	23		201	61
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