

# **PARTS MANUAL**

**SPACESAVER  
S40-50-60XL**

**(A187)**

**CUSTOMER EDITION**

# ***HYSTER***

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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:

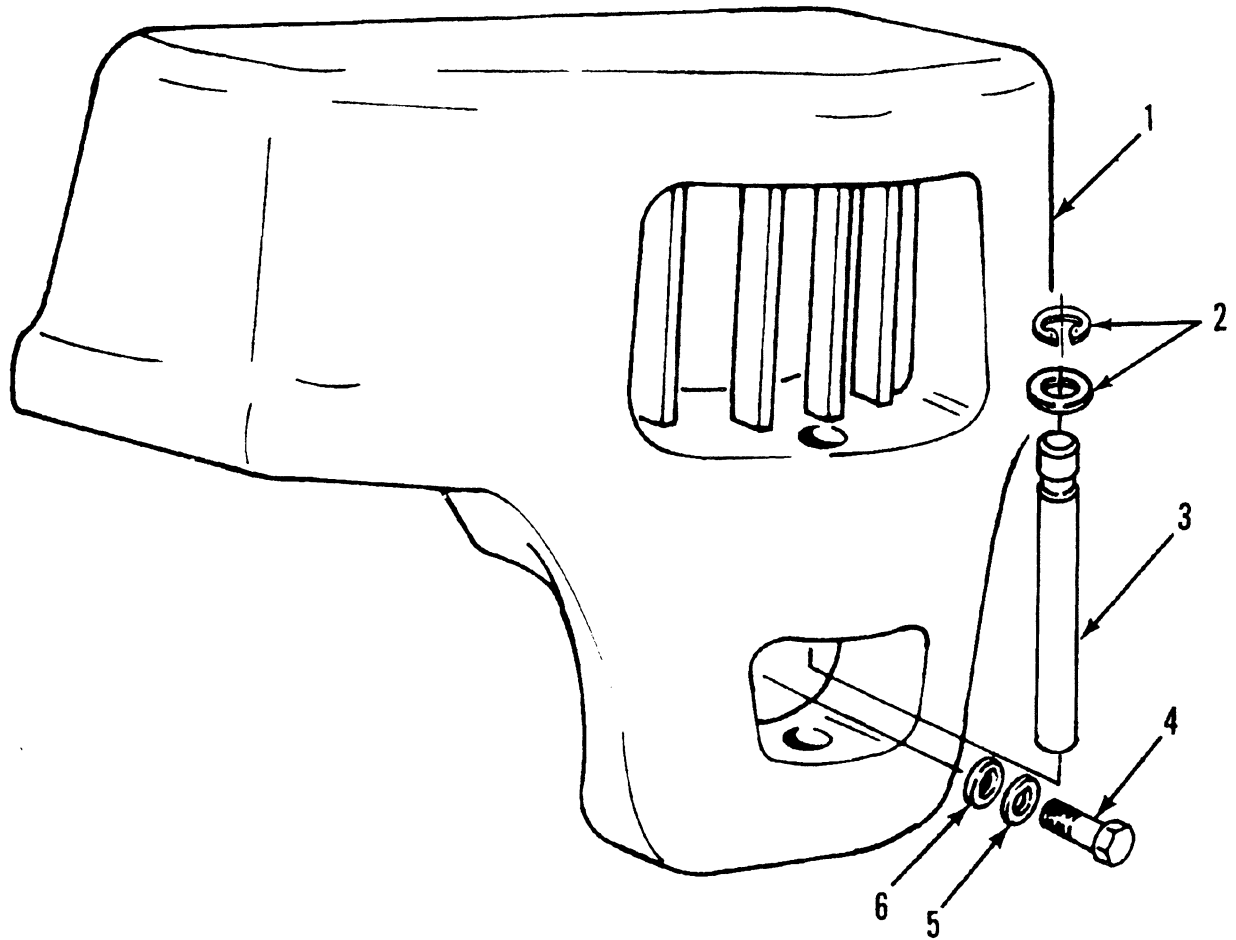
- The assembly breakdowns include part numbers, description, quantities required, keys and footnotes to help in selecting the correct parts.
6. Keys are used to show effective serial numbers for two or more similar assemblies, RH and LH assembly parts, etc. select the appropriate key, "A", "B", "C" or "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 (Item 7), *HEAD* is a sub-part of the major assembly *MOTOR* and *SET-SPRING* is one of several sub-parts of the assembly *HEAD*.
  8. Quantities shown are for one assembly. Note that two assemblies are shown, but the quantities of the subparts are indicated as three and three. This means three per 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.

## COUNTERWEIGHT (Figure 4)



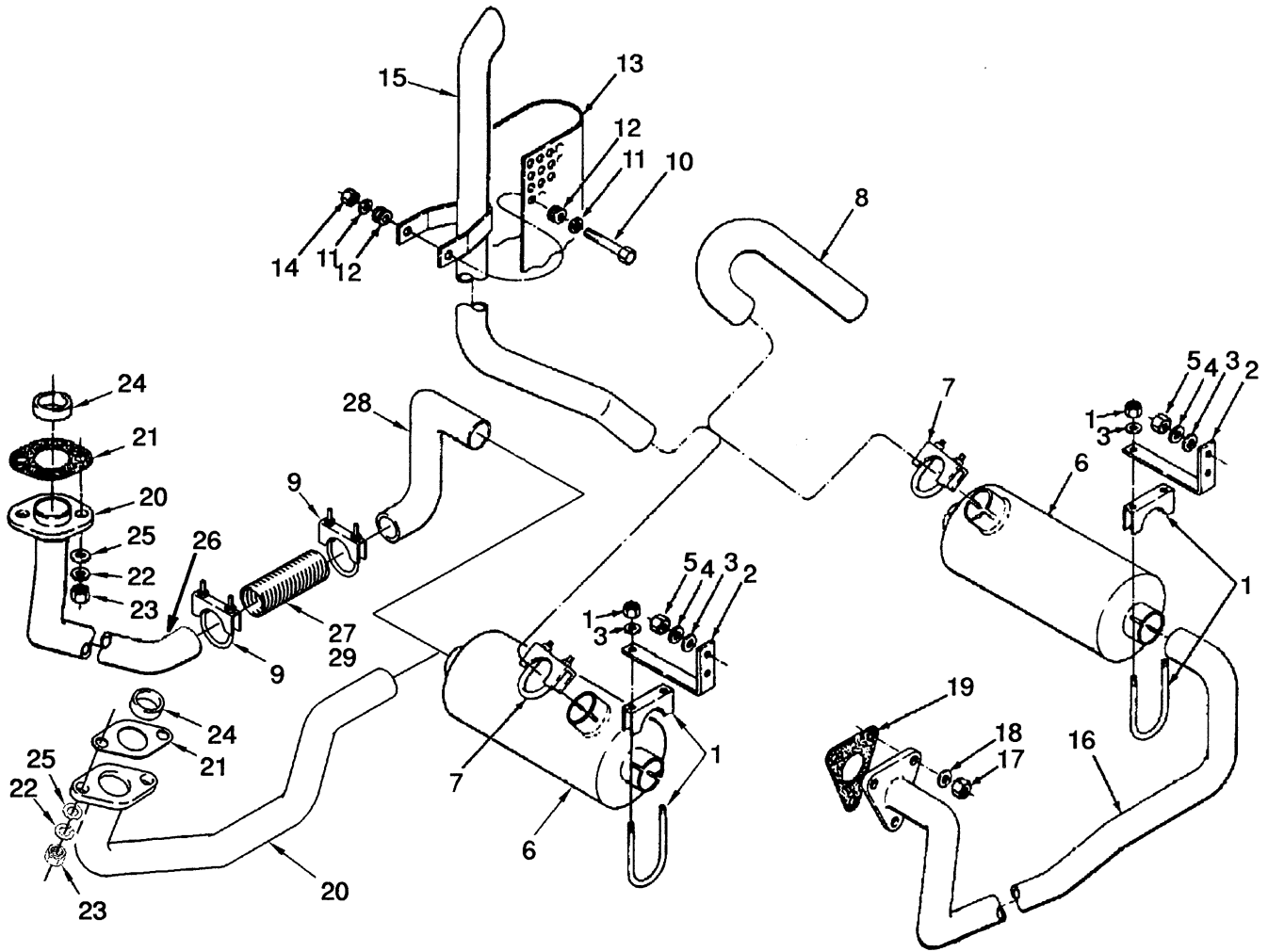
**Key**

- A: S40XL (S2.00XL)
- B: S50XL (S2.50XL)
- C: S60XL (S3.00XL)

REF	PART NO.	NAME OF PART	QTY			REF	PART NO.	NAME OF PART	QTY		
			A	B	C				A	B	C
1	377202	Counterweight	1	..	..	4	292607	Capscrew	1	..	..
1	377201	Counterweight	..	1	..	4	292614	Capscrew	..	1	1
1	377200	Counterweight	..	..	1	5	292689	Lockwasher	1	1	1
2	<sup>a</sup> 350487	Snap Ring	1	1	1	6	335569	Washer	1	1	1
2	<sup>a</sup> 15133	Flatwasher	1	1	1						
2	19929	Pin	1	1	1						
3	387474	Pin	1	1	1						

<sup>a</sup> Last Used on S/N A187V-6501

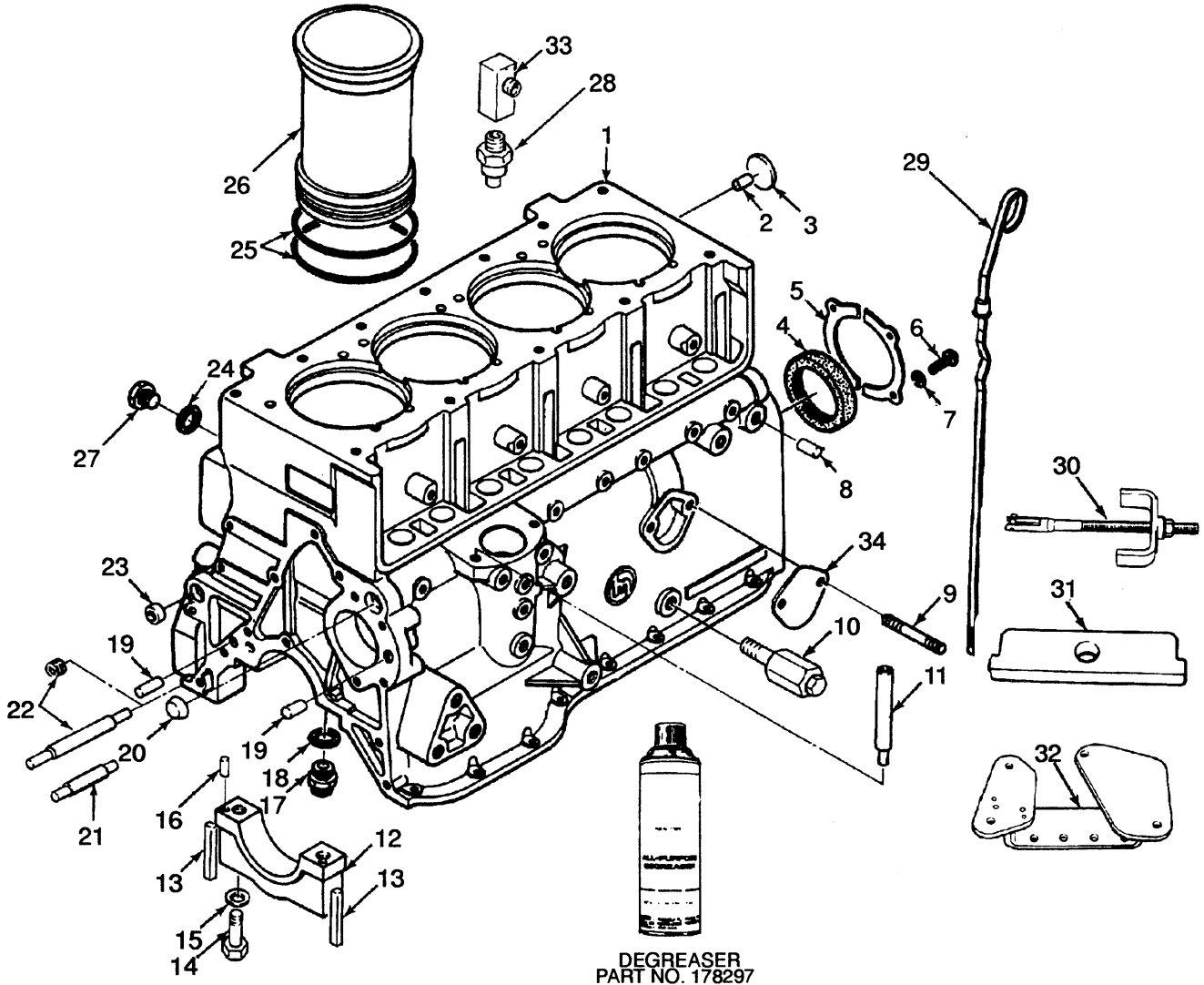
## EXHAUST (Figure 10)



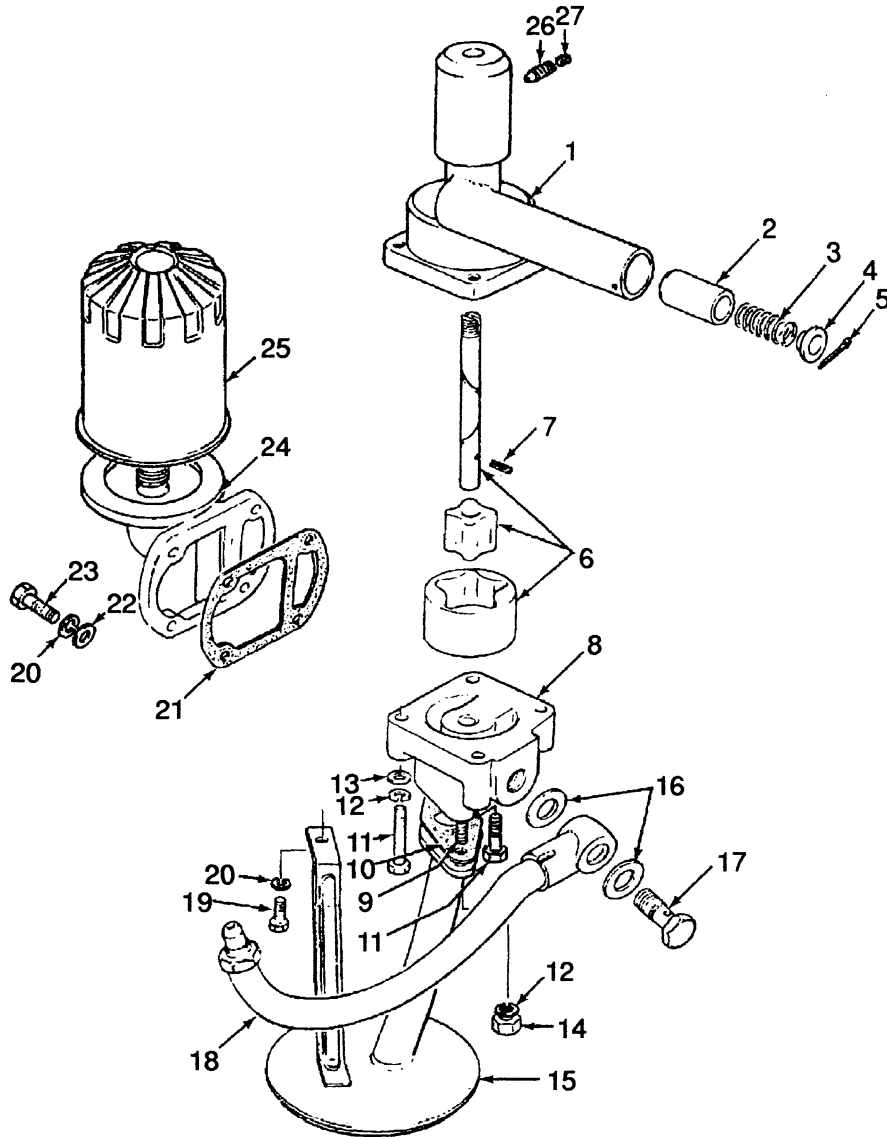
**PENETRATING OIL  
PART NO. 171352**



## CYLINDER BLOCK (Figure 23) GASOLINE & LPG M4-121G



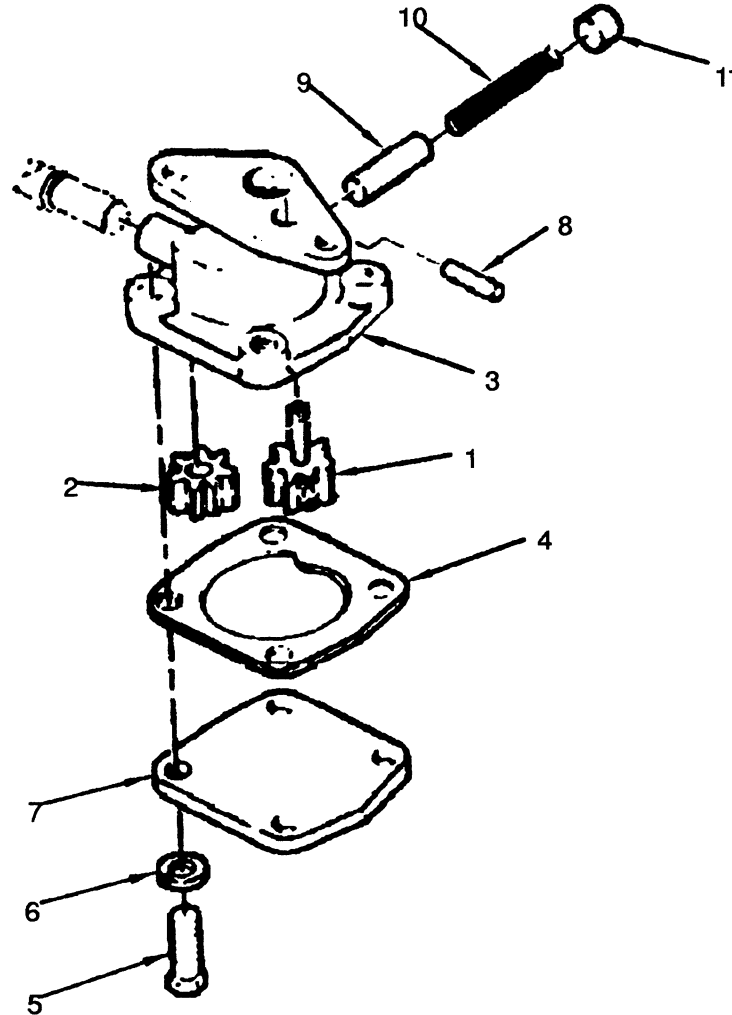
## OIL PUMP/OIL FILTER (Figure 29) GASOLINE & LPG M4-121G



REF	PART NO.	NAME OF PART	QTY	REF	PART NO.	NAME OF PART	QTY
	326745	Oil Pump .....	1	15	326757	Screen .....	1
1	326746	Body .....	1	16	324718	Gasket .....	2
2	326747	Plunger .....	1	17	326765	Bolt .....	1
3	326748	Spring .....	1	18	326764	Pipe .....	1
4	326749	Seat .....	1	19	326771	Bolt .....	1
5	326750	Pin .....	1	20	324792	Washer .....	5
6	326753	Shaft .....	1	21	<sup>a</sup> 326769	Gasket .....	1
7	326755	Pin .....	1	22	324793	Washer .....	3
8	326751	Cover .....	1	23	326770	Bolt .....	4
9	326752	Stud .....	2	24	341471	Housing .....	1
10	<sup>a</sup> 326758	Gasket .....	1	25	324692	Oil Filter .....	1
11	326759	Bolt 20 mm .....	3	26	326762	Screw .....	1
11	326760	Bolt 33 mm .....	1	27	326763	Screw .....	1
12	324791	Washer .....	6				
13	326761	Washer .....	4				
14	324788	Nut .....	2				

<sup>a</sup> Included in Bottom Gasket Kit 346528

## OIL PUMP (Figure 34) GASOLINE & LPG 4-153



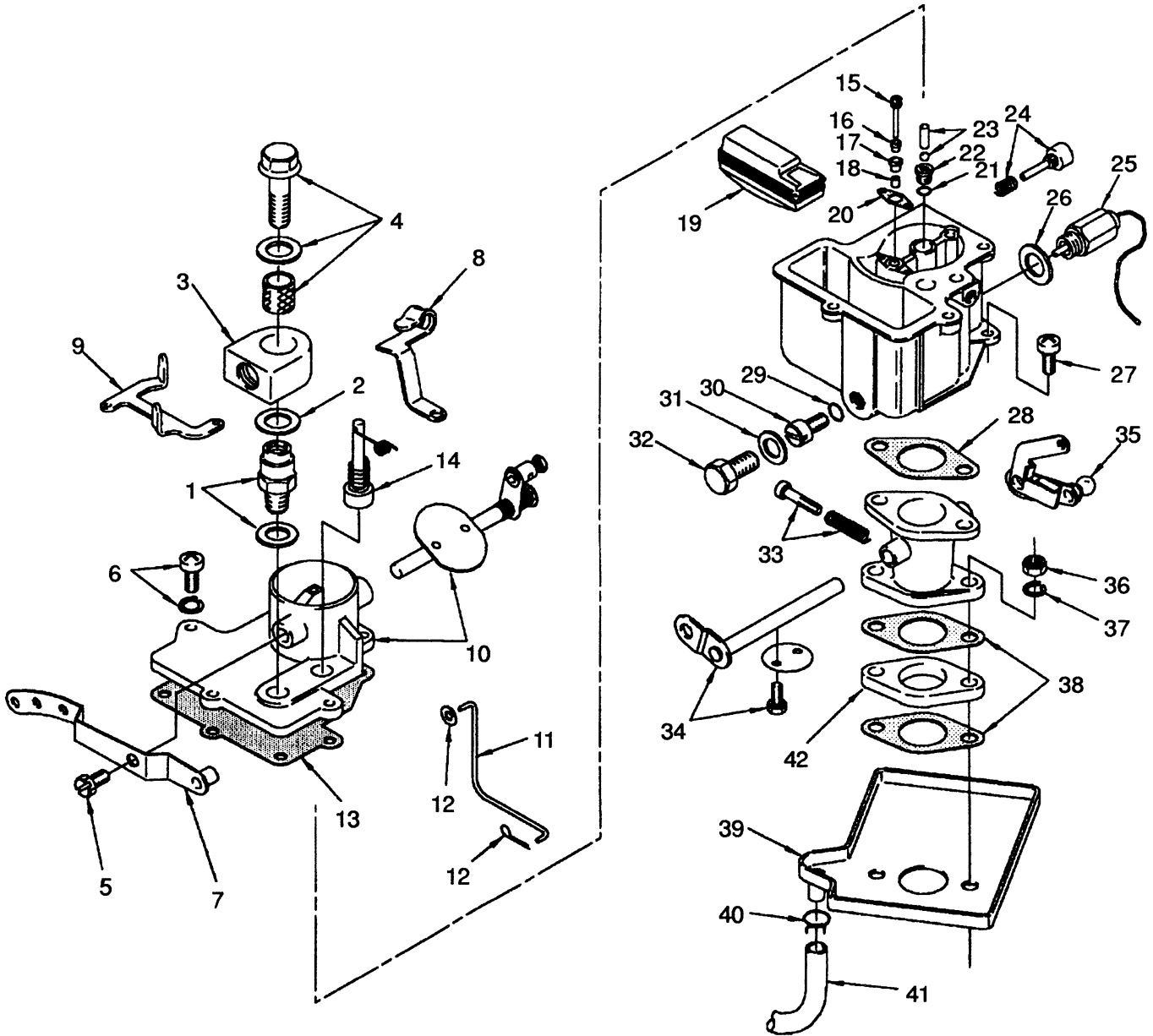
**Key**

- A: 1987 Series Engine
- B: 1988 Series Engine
- C: 1989 Series Engine

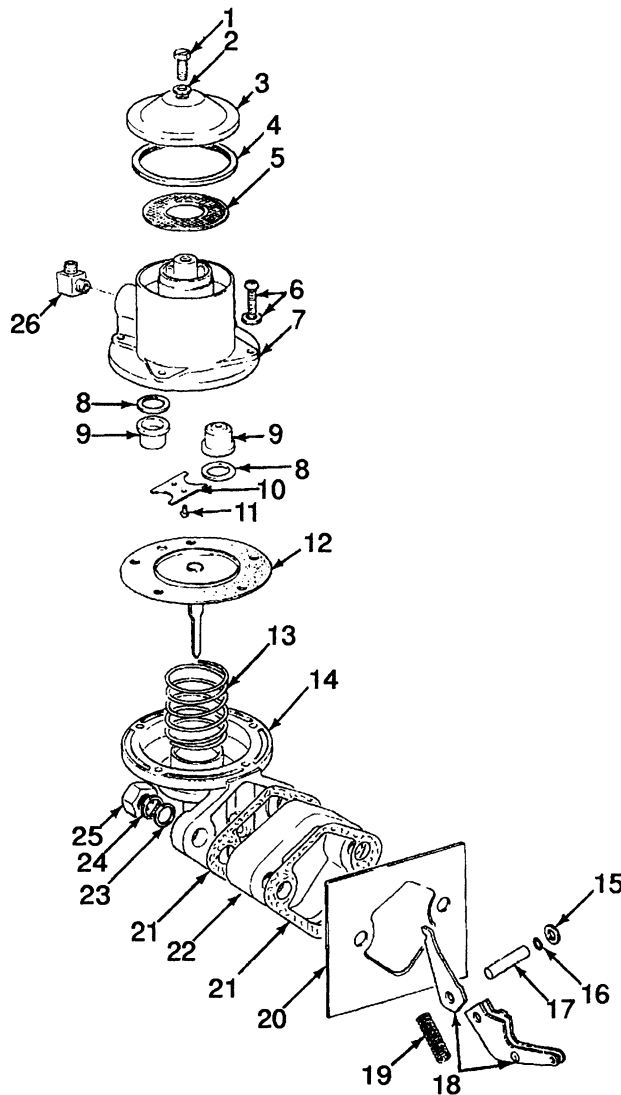
REF	PART NO.	NAME OF PART	QTY			REF	PART NO.	NAME OF PART	QTY		
			A	B	C				A	B	C
	377161	Engine	1	..	..	5	16709	Screw	4	..	..
	1302964	Engine	..	1	..	6	15154	Lockwasher	4	..	..
	1312467	Engine	..	..	1	7	149846	Cover	1	..	..
	149844	Oil Pump	1	..	..	8	149845	Dowel Pin	1	..	..
	1312813	Oil Pump	..	1	1	9	145176	Valve	1	..	..
1	.....	Drive Gear	1	..	..	10	145177	Spring	1	..	..
2	.....	Driven Gear	1	..	..	11	177563	Plug	1	..	..
3	.....	Housing	1	..	..						
4	<sup>a</sup> 149847	Gasket	1	..	..						

<sup>a</sup> Included In Bottom Gasket Kit 301967

## CARBURETOR (Figure 39) GASOLINE M4-121G



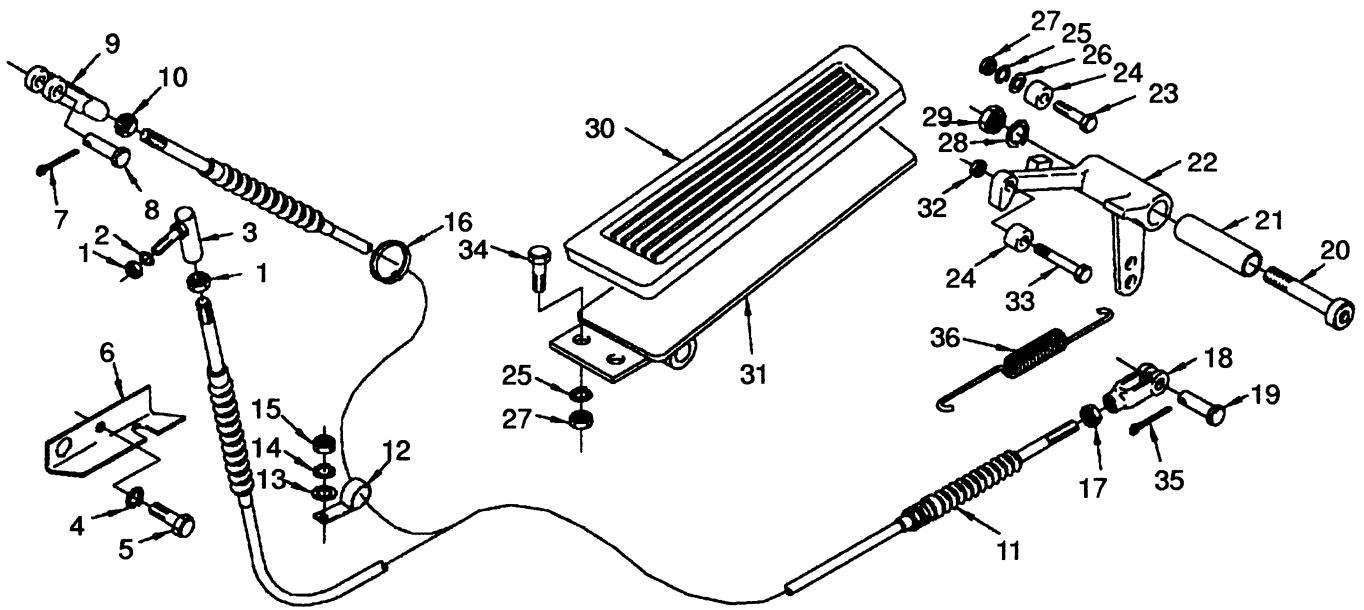
## FUEL PUMP (Figure 45) GASOLINE M4-121G



REF	PART NO.	NAME OF PART	QTY	REF	PART NO.	NAME OF PART	QTY
	326659	Pump	1	15	.....	Washer	2
1	326663	Screw	1	16	.....	O-Ring	2
2	326664	O-Ring	1	17	.....	Shaft	1
3	.....	Cap	1	18	.....	Rocker Arm	1
4	326662	Gasket	1	19	.....	Spring	1
5	326660	Strainer	1	20	326658	Deflector	1
6	.....	Bolt/Washer	6	21	<sup>a</sup> 1334901	Gasket	2
7	.....	Body (Upper)	1	22	326679	Insulator	1
8	.....	Washer	2	23	324792	Washer	2
9	.....	Valve	2	24	326681	Washer	2
10	.....	Retainer	1	25	324789	Nut	2
11	.....	Bolt	2	26	326678	Connector	1
12	.....	Diaphragm	1				
13	.....	Spring	1				
14	.....	Body (Lower)	1				

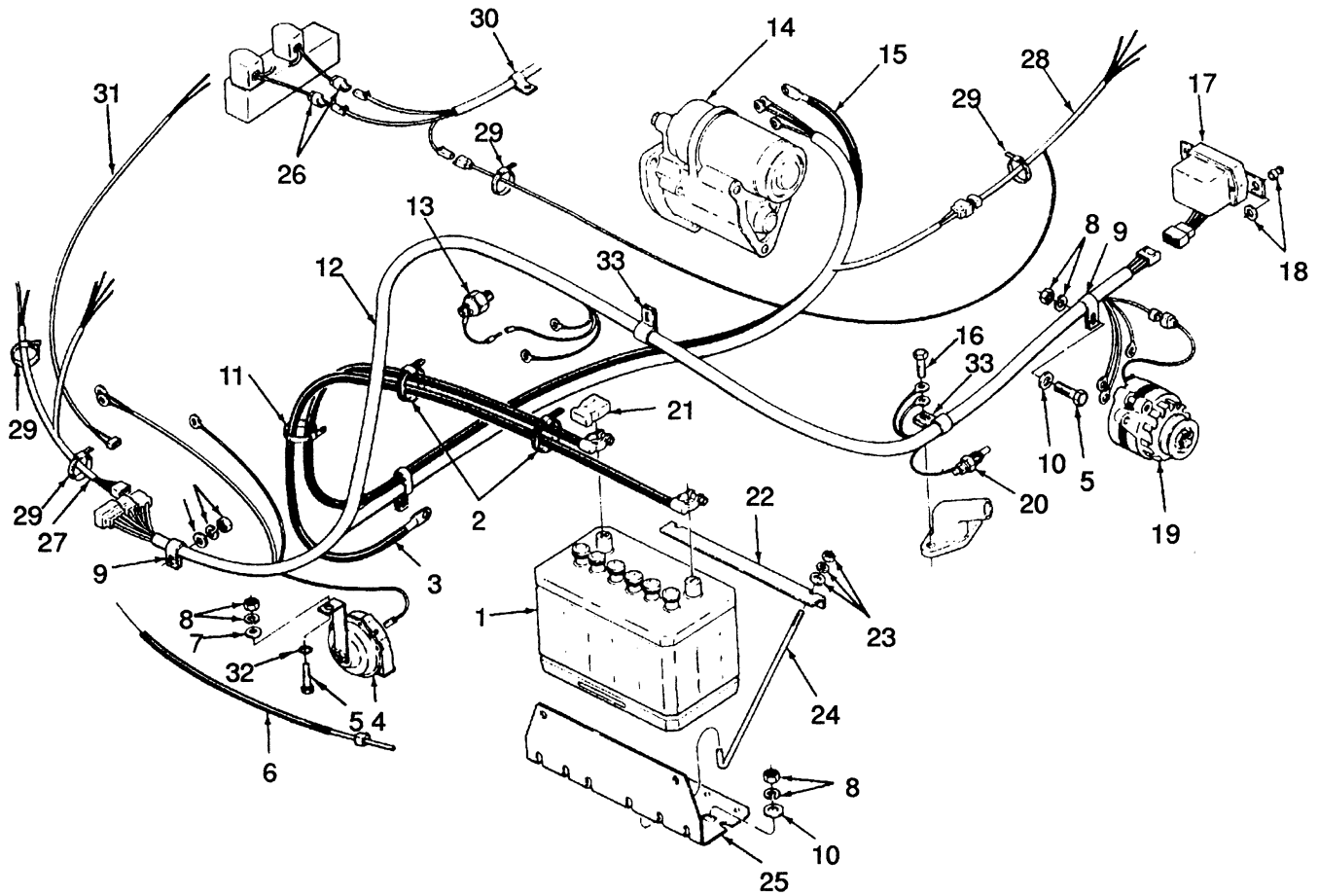
<sup>a</sup> Included in Bottom Gasket Kit 346528

## THROTTLE LINKAGE (Figure 52) FORWARD/REVERSE SHIFT LEVER LAST USED ON S/N A187V-3674



## ELECTRICAL SYSTEM (Figure 57)

DIESEL 2.4L

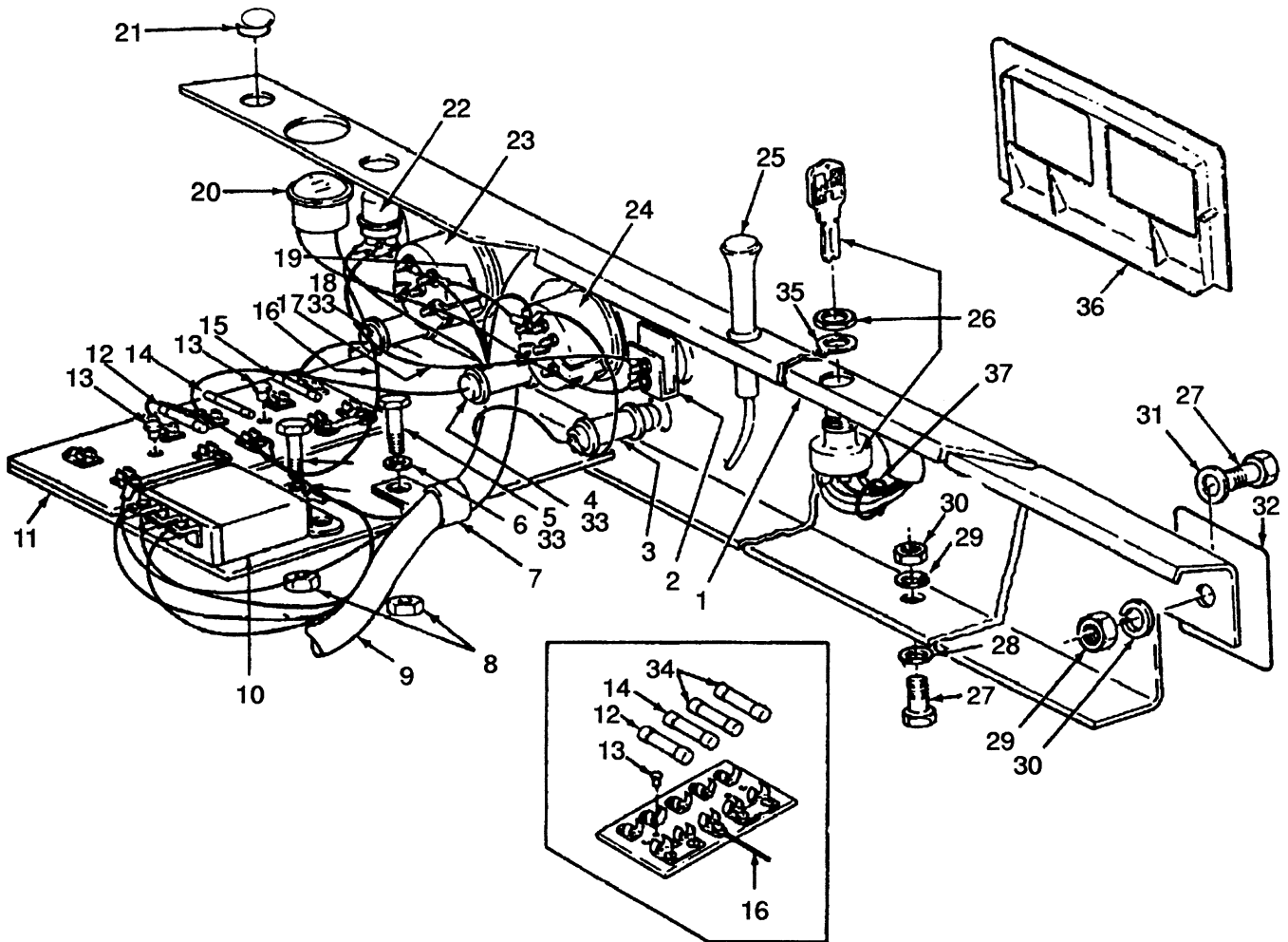


IGNITION SEALER  
PART NO. 178295



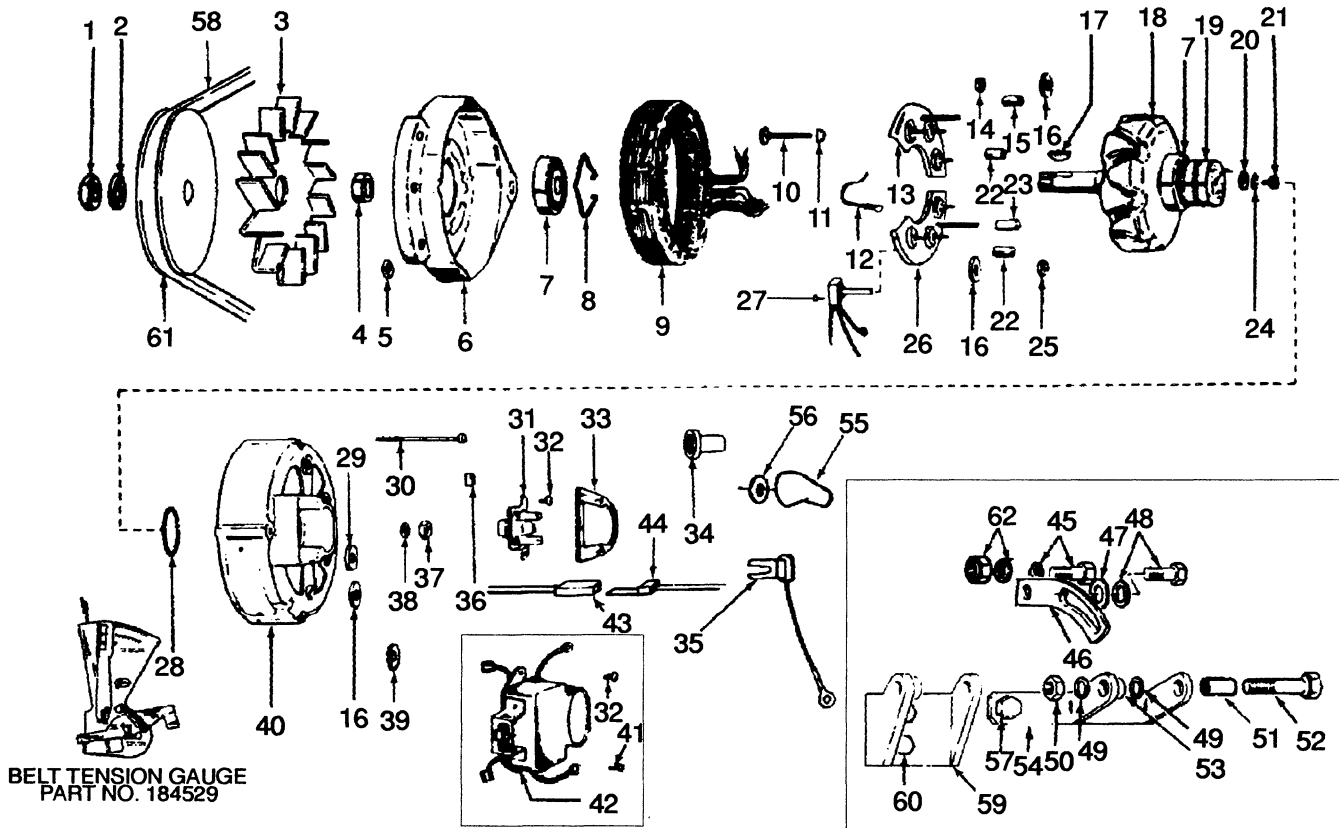
BATTERY TERMINAL  
COATING PART NO. 178296

## INSTRUMENT PANEL (Figure 62)

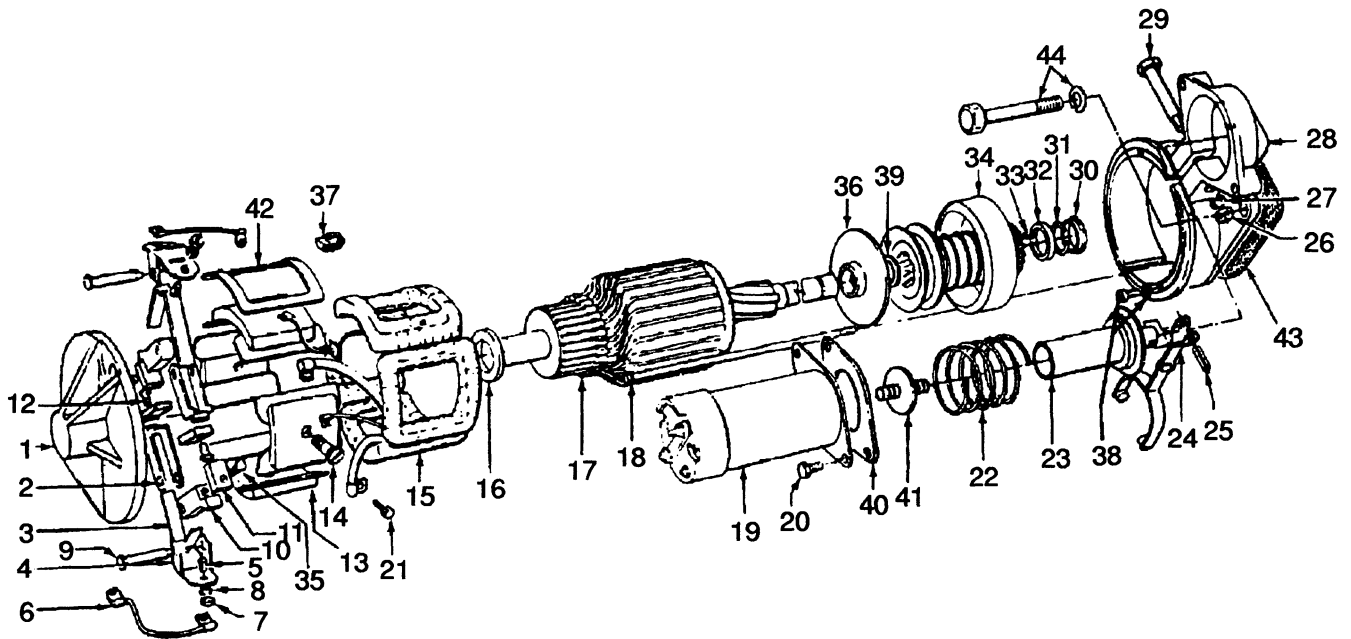


## ALTERNATOR (Figure 69)

DIESEL 2.4L , GAS & LPG M4-121G: TYPES GS, LPS, & DS  
FIRST USED ON S/N A187V-7080



## STARTER (Figure 75) GASOLINE & LPG 4-153

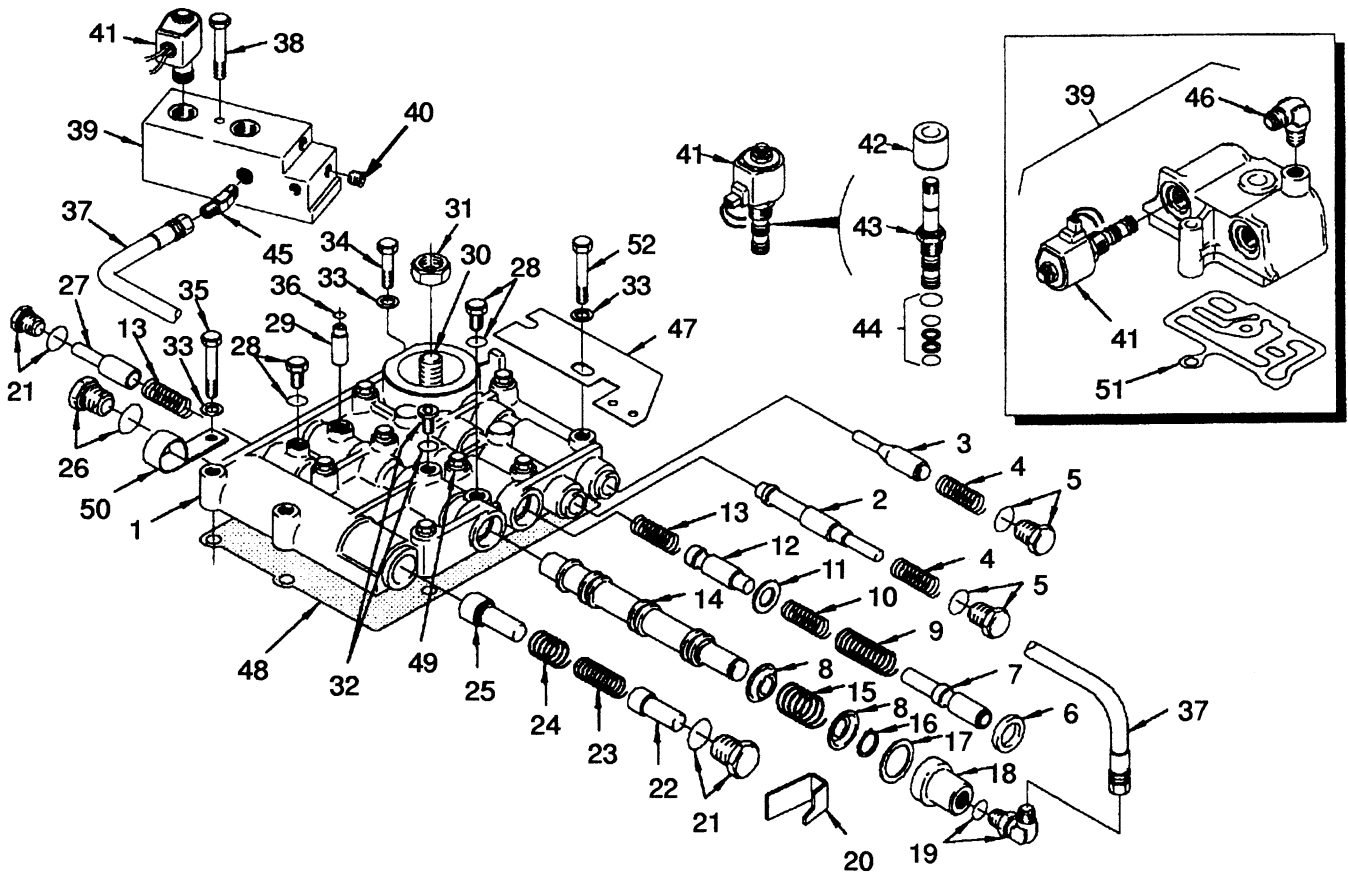


## TRANSMISSION

Name of Part 1 2 3 4	Monotrol Pedal			Forward/Reverse Lever		
	Gas/LPG M4-121G	Diesel	Gas/LPG 4-153	Gas/LPG M4-121G	Diesel	Gas/LPG 4-153
Transmission	<sup>a</sup> 371887	<sup>a</sup> 371898	<sup>b</sup> 377278	<sup>e</sup> 334467	<sup>e</sup> 334468	<sup>b</sup> 377277
	<sup>b</sup> 377274	<sup>b</sup> 377276	<sup>c</sup> 1303704	<sup>f</sup> 360312	<sup>f</sup> 360313	<sup>g</sup> 1303703
	<sup>c</sup> 1303700	<sup>c</sup> 1303702	<sup>d</sup> 1308066	<sup>b</sup> 277273	<sup>b</sup> 377275	
	<sup>d</sup> 1308064	<sup>d</sup> 1308065		<sup>g</sup> 1303541	<sup>g</sup> 1303701	

- <sup>a</sup> Last Used on S/N A187V-6513 Also 6516-6518, 6542-6554 and 6556-6561
- <sup>b</sup> Used on S/N A187V-6513 Except 6516-6518, 6542-6554 and 6556-6561 to Transmission S/N T42M-10709
- <sup>c</sup> Used on Transmission S/N T42M-10659 to T42M-10710
- <sup>d</sup> First Used on Transmission S/N T42M-12457 to T42M-12840
- <sup>e</sup> Last Used on Transmission S/N T42M-3039
- <sup>f</sup> Used on Transmission S/N T42M-3040 to Truck S/N A187V-6513 Also 6516-6518, 6542-6554 and 6556-6561
- <sup>g</sup> First Used on S/N A187V-10659

## CONTROL VALVE (Figure 84) MONOTROL PEDAL



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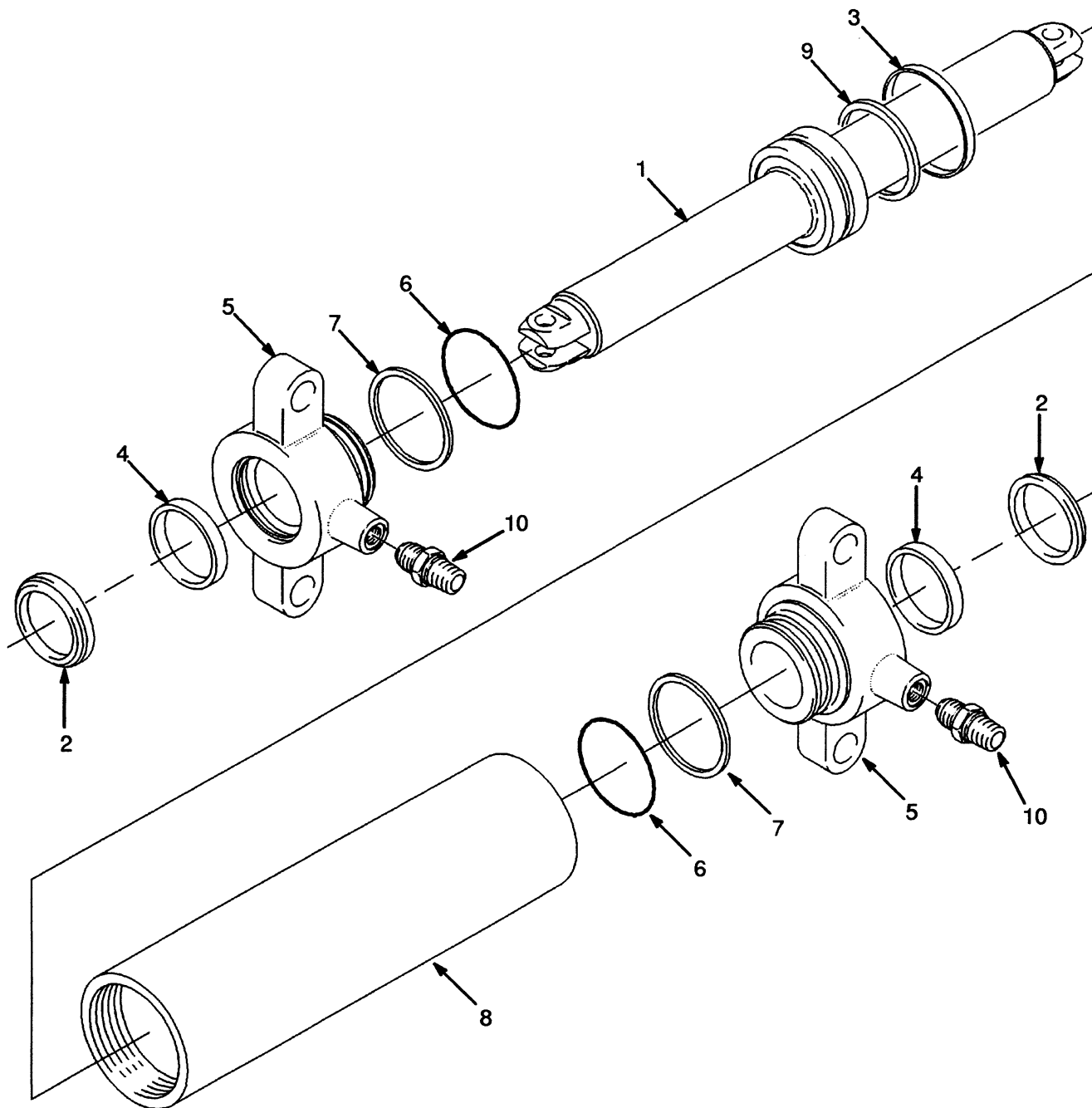
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## STEERING CYLINDER (Figure 89)

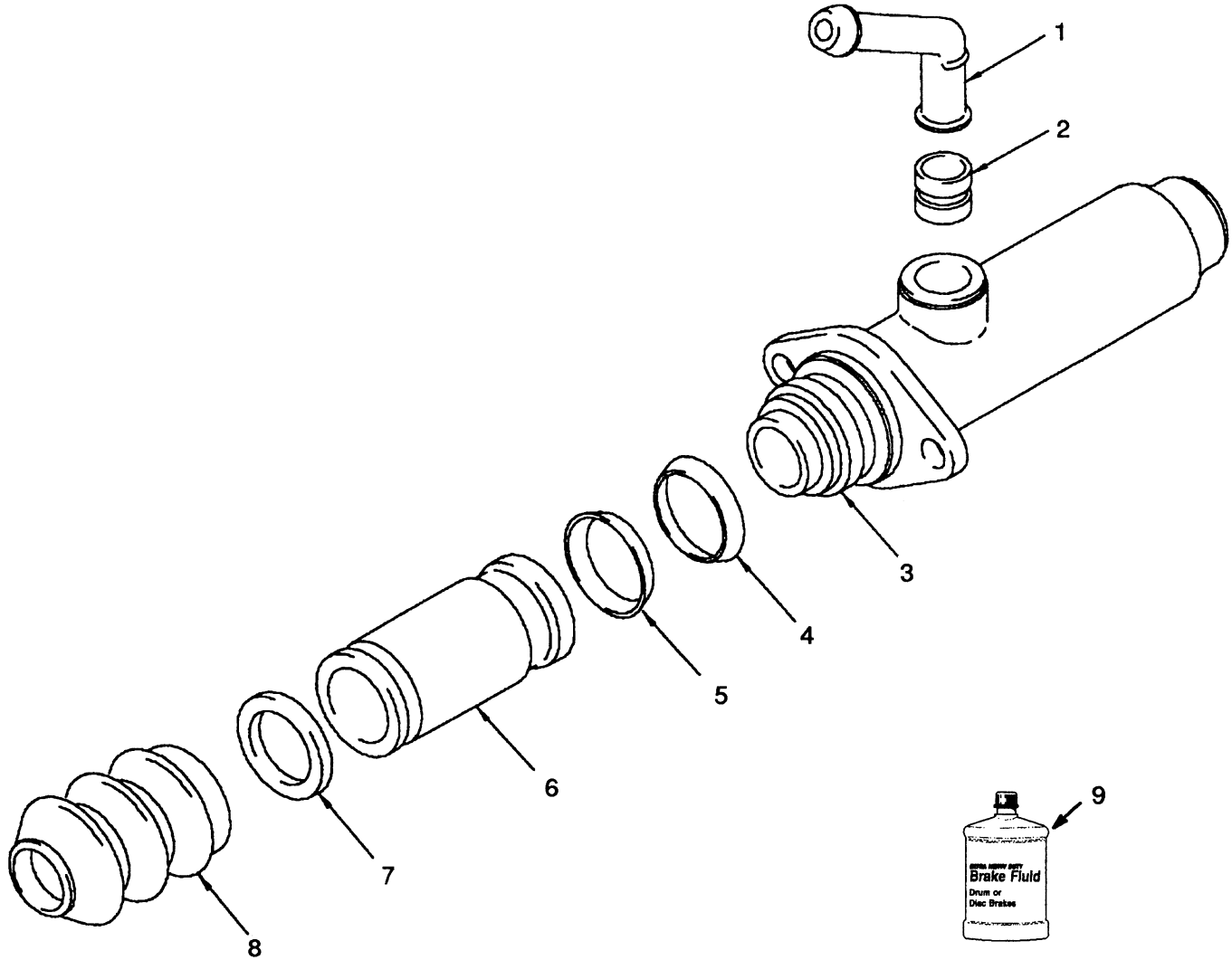


REF PART NO.	NAME OF PART	QTY
	329222 Steering Cylinder .....	1
1	329221 Rod/Piston .....	1
2	<sup>a</sup> 203071 Wiper .....	2
3	<sup>a</sup> 293922 Piston Seal .....	1
4	<sup>a</sup> 210183 Rod Seal .....	2
5	1310393 End Cap .....	2
6	<sup>a</sup> 1310389 O-Ring .....	2

REF PART NO.	NAME OF PART	QTY
7	<sup>a</sup> 1310391 Back-Up Ring .....	2
8	329218 Shell .....	1
9	<sup>a</sup> 393129 Quadrant Ring .....	1
10	16540 Fitting .....	2

<sup>a</sup> Included In Seal Kit 1310390

## MASTER CYLINDER (Figure 94)



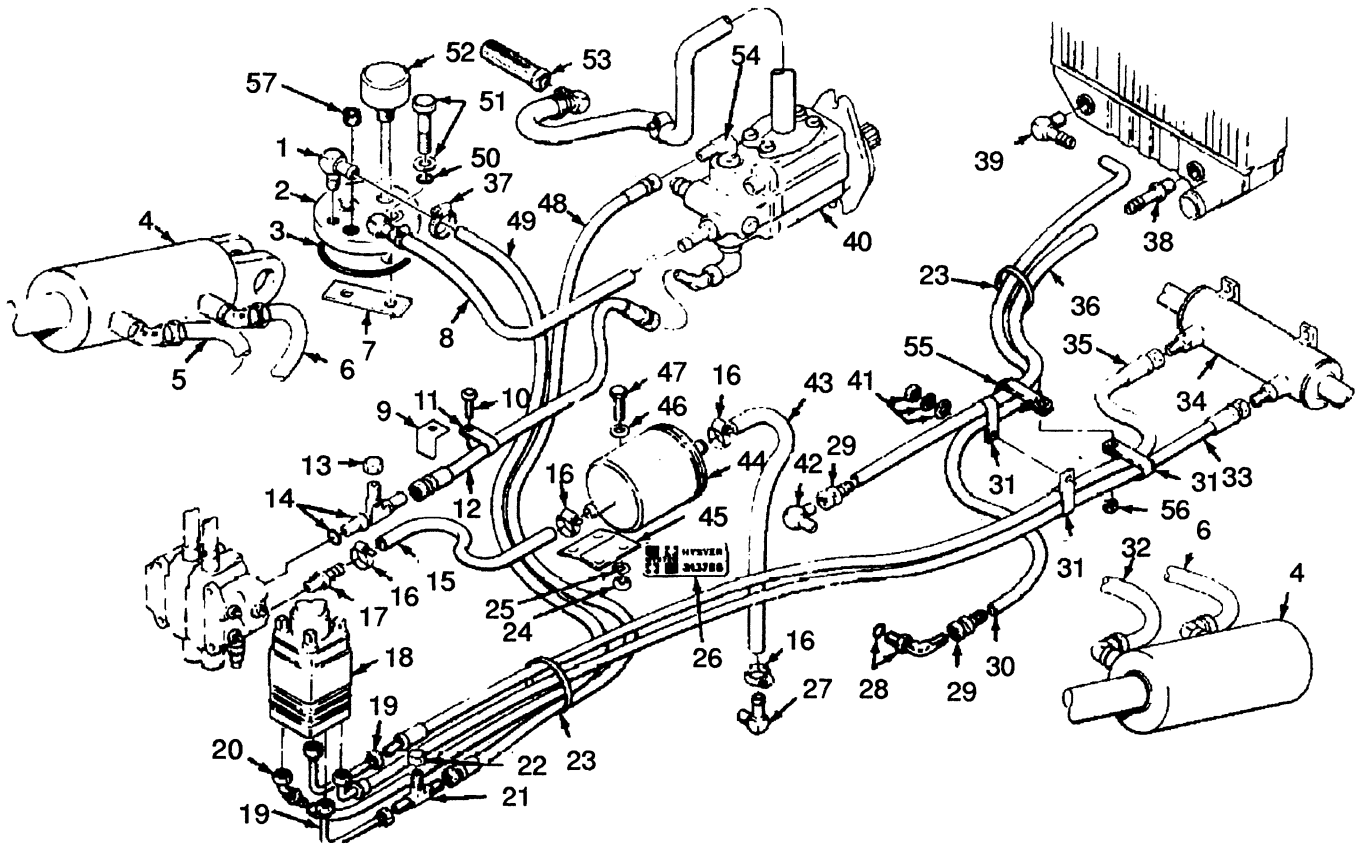
REF	PART NO.	NAME OF PART	QTY
	bc 309644	Master Cylinder .....	1
1	321785	Elbow .....	1
2	a	Plug .....	1
3	a	Valve .....	1
4	a	Cup .....	1
5	a	Cup .....	1
6	a	Piston .....	1
7	a	Ring .....	1
8	a	Cover .....	1

REF	PART NO.	NAME OF PART	QTY
9	357956	Brake Fluid (1 Gallon) .....	AR
9	357973	Brake Fluid (1 Quart) .....	AR
9	bcde 26758	Brake Fluid (12 Ounces) .....	AR
a	Included In Repair Kit 321784		
b	Included in Brake Overhaul Kit 996010		
c	Included in Major Brake Job Kit 996011		
d	Included in Minor Brake Job Kit 996012		
e	Included in Brake Job Kit 996138		

## HYDRAULIC (Figure 99)

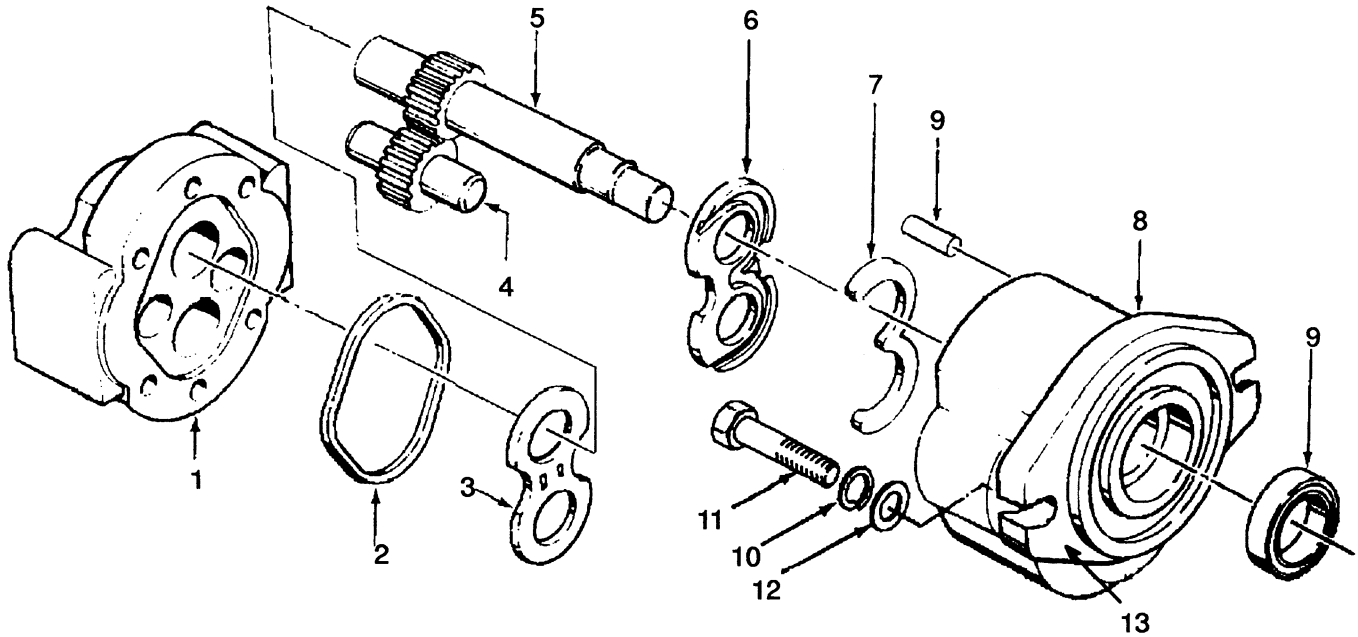
GASOLINE & LPG M4-121G

USED ON S/N A187V-5939 TO A187V-9628



## HYDRAULIC PUMP (Figure 104)

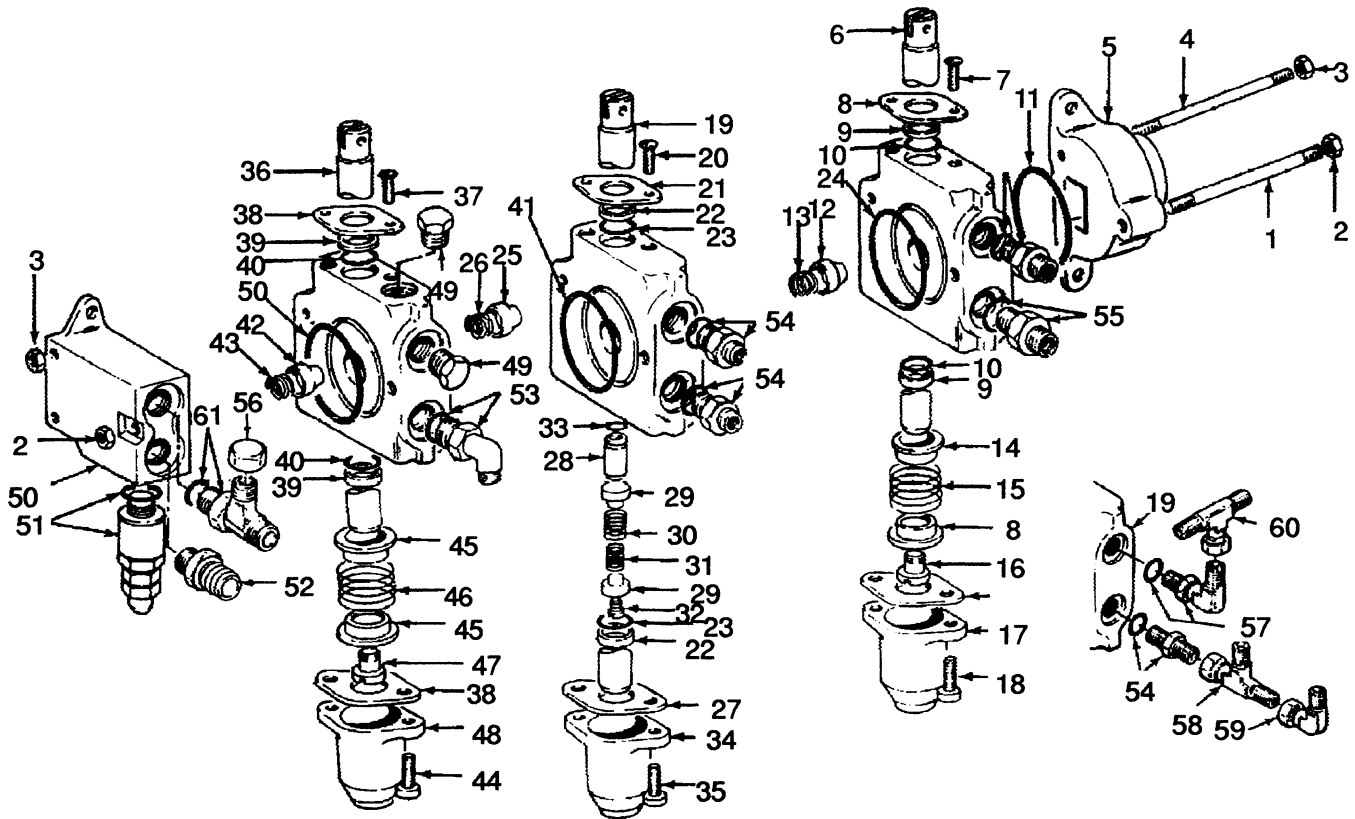
GASOLINE & LPG 4-153



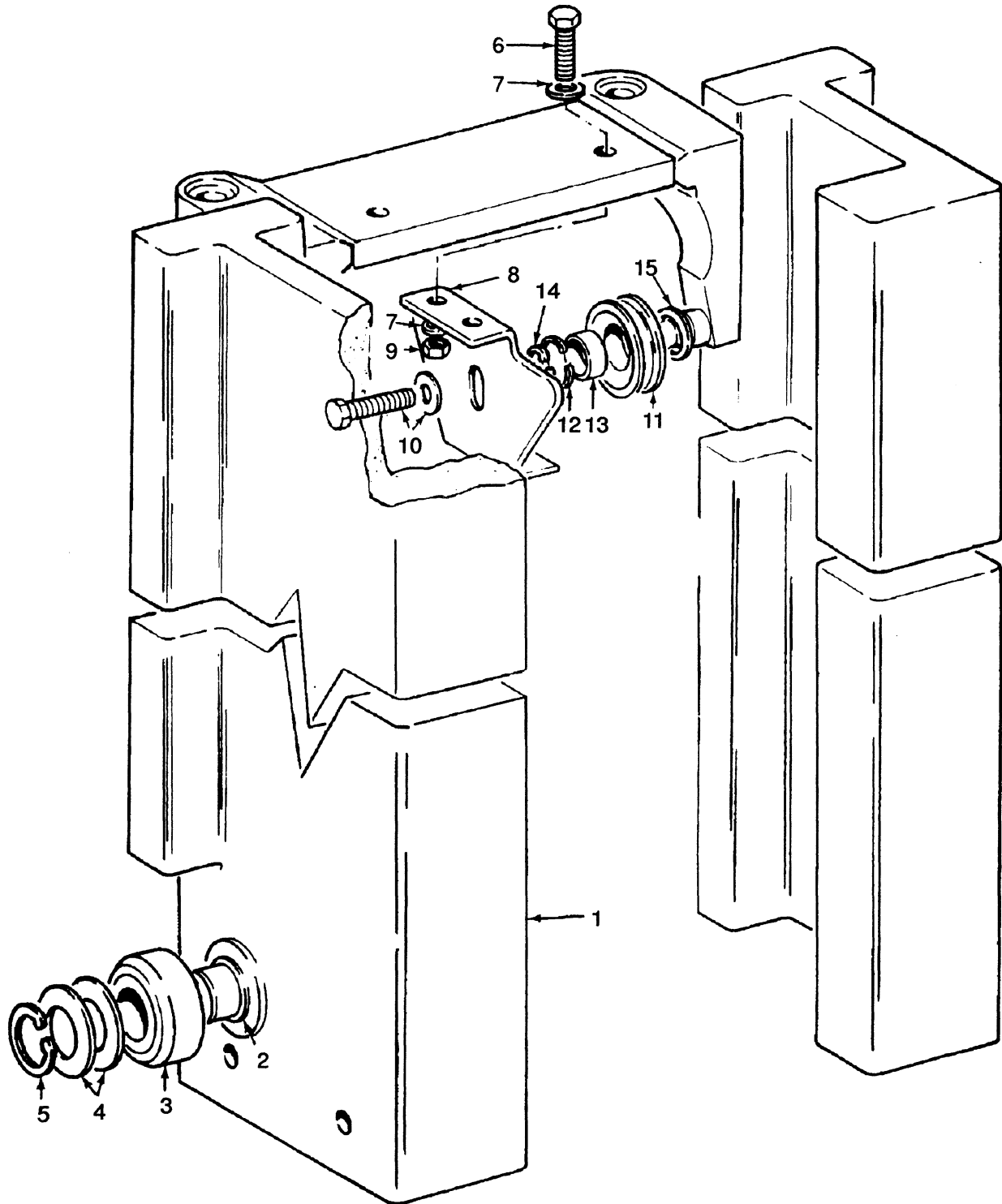
REF	PART NO.	NAME OF PART	QTY
	377048	Pump	1
1	.....	Body (Rear)	1
2	a	Ring	1
3	346543	Thrust Plate	1
4	347052	Driven Gear	1
5	388298	Drive Gear	1
6	346542	Wear Plate	1
7	a	Seal	1
8	.....	Body (Front)	1
9	a	Shaft Seal	1
9	.....	Pin	2

REF	PART NO.	NAME OF PART	QTY
10	b	292683 Washer	2
10	c	15158 Washer	2
11	b	292527 Capscrew	2
11	c	16830 Capscrew	2
11		313022 Sealant	AR
12		15135 Washer	2
13		313022 Adhesive	AR
	a	Included In Seal Kit 387482	
	b	Last Used on S/N A187V-9628	
	c	First Used on S/N A187V-9629	

## CONTROL VALVE (Figure 110) THREE FUNCTION

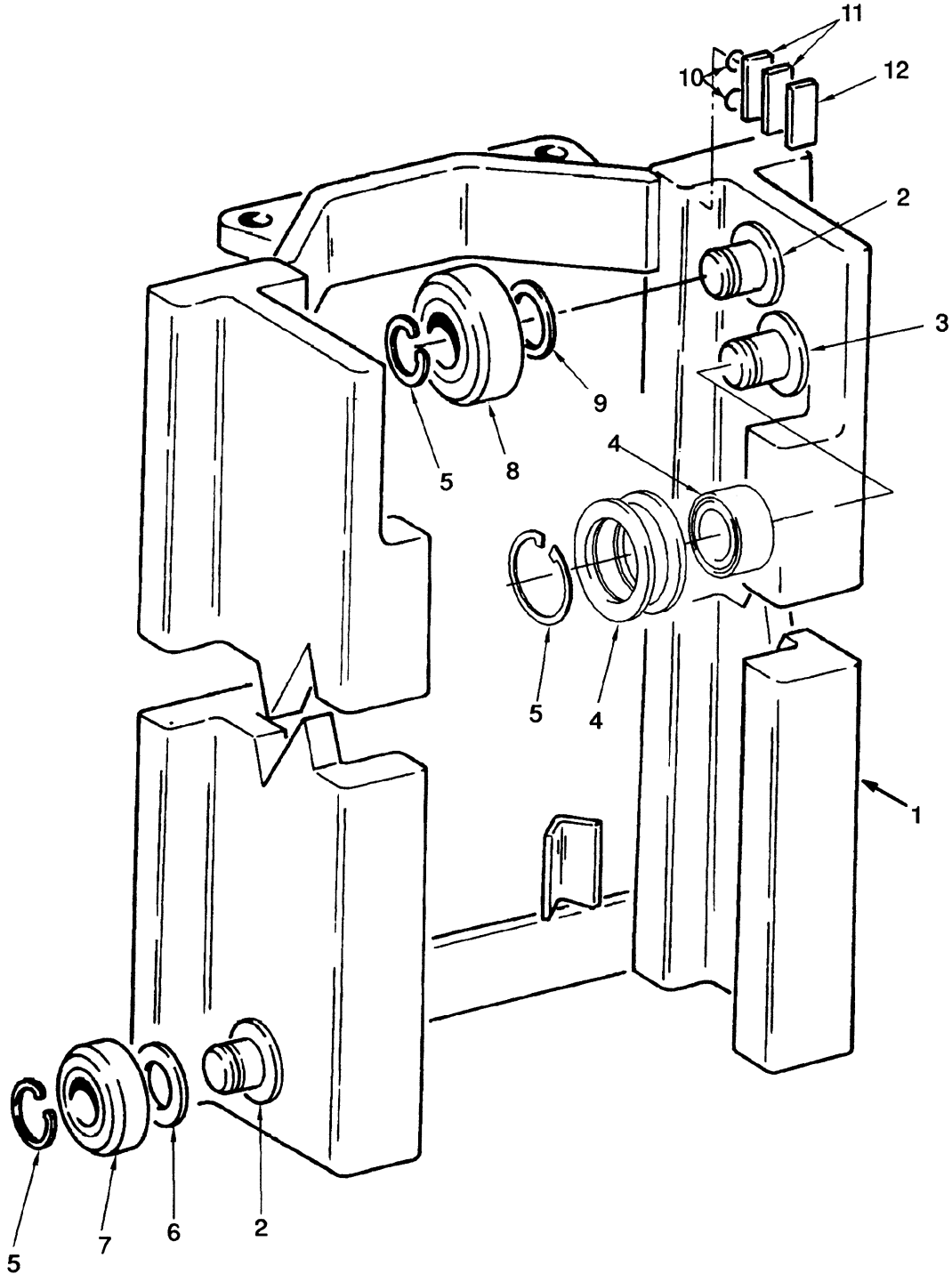


## INNER MAST (Figure 114) 2-STG LFL



## INTERMEDIATE MAST (Figure 119)

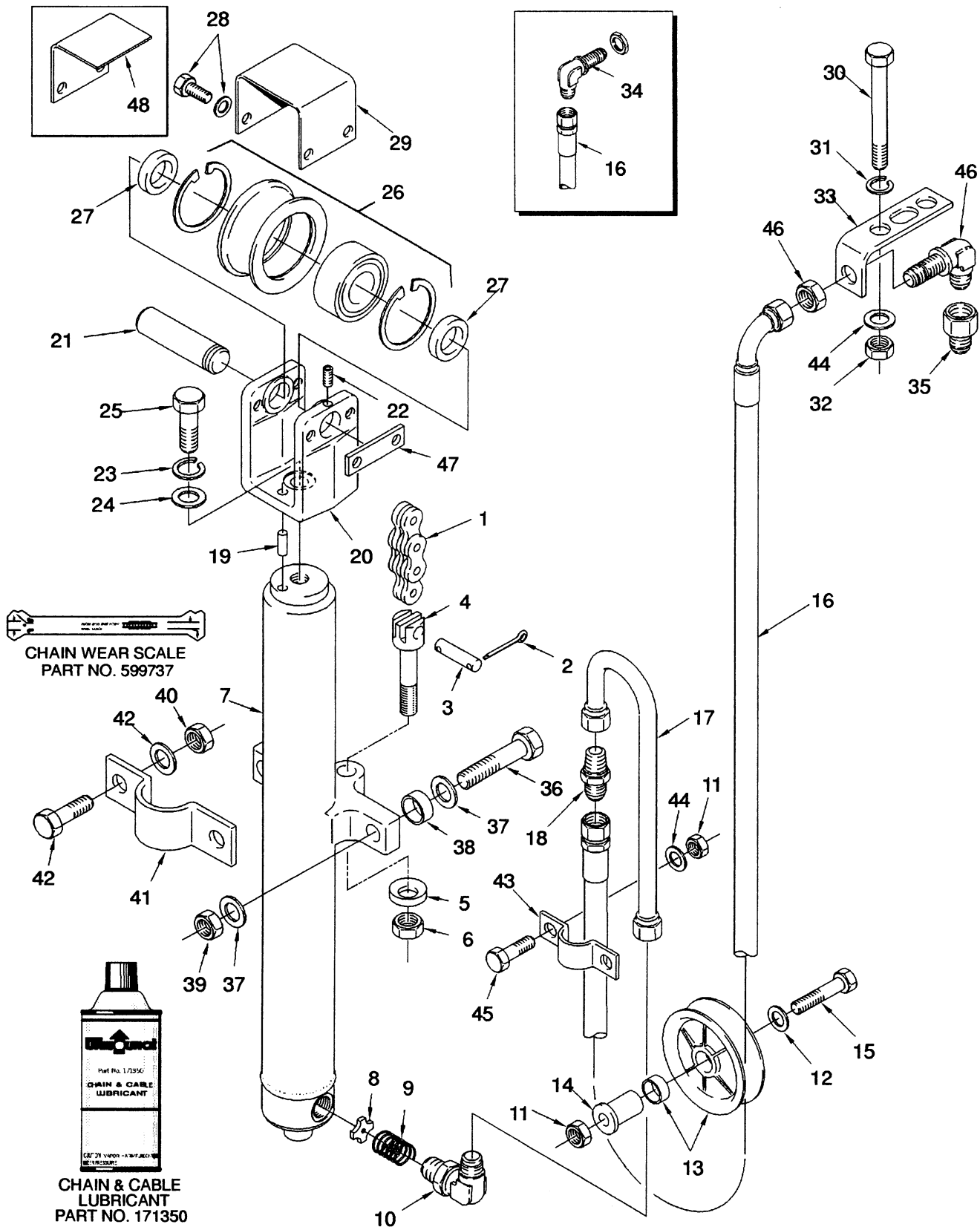
3-STG FFL



## FREE-LIFT (Figure 124)

### 3-STG FFL

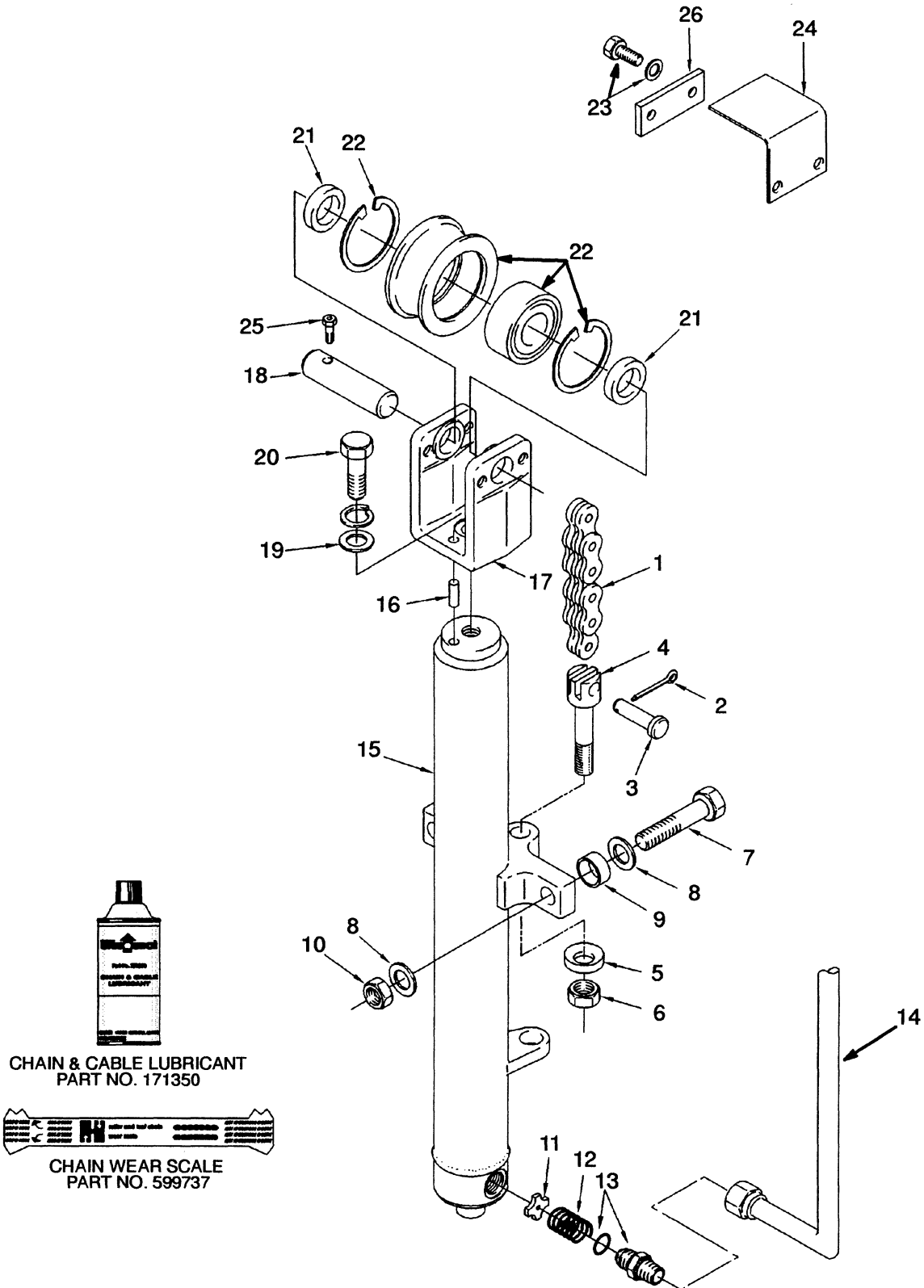
367000, 386000, 388000 and 1311000 SERIES MASTS





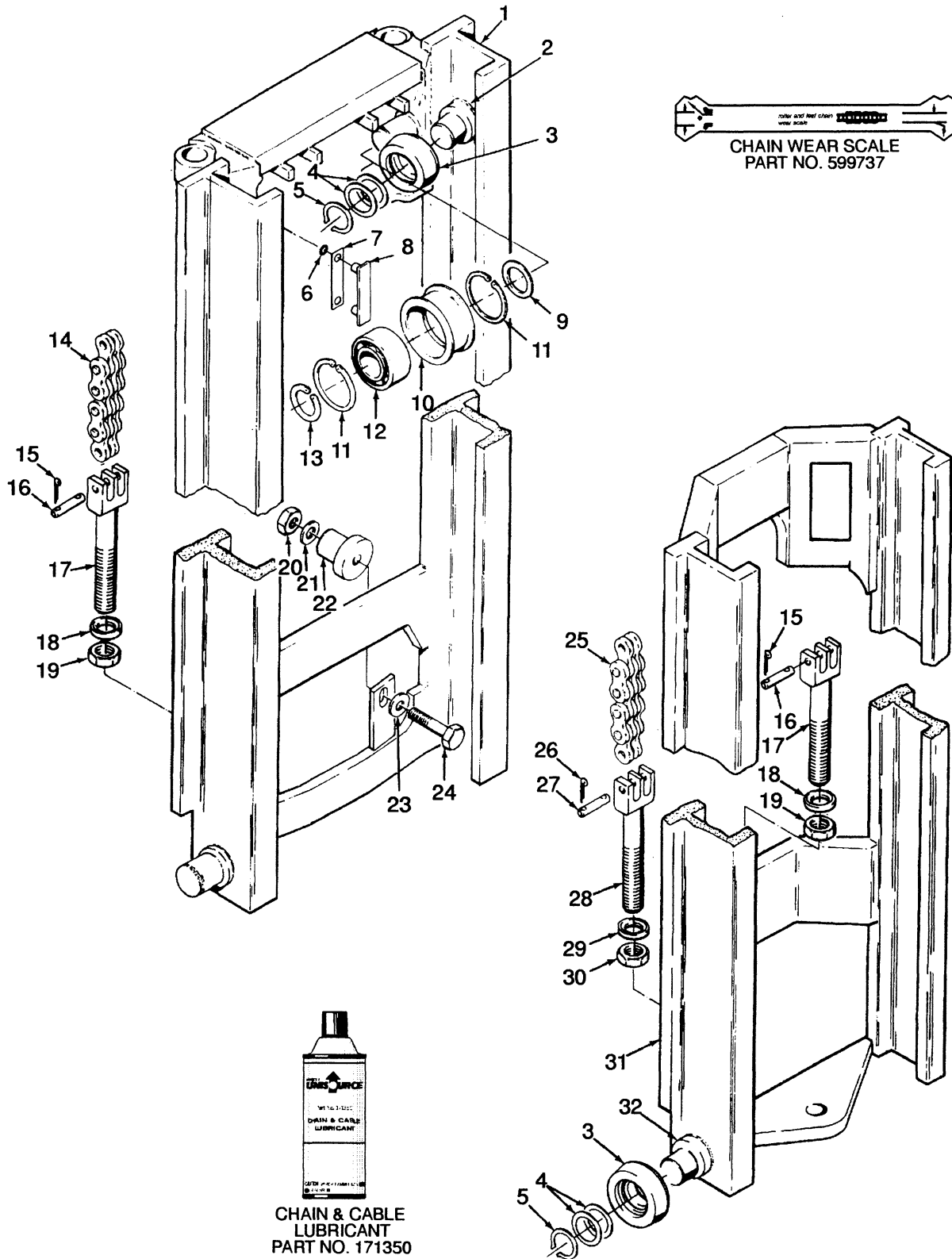
## FREE-LIFT (Figure 132)

### 2-STG FFL



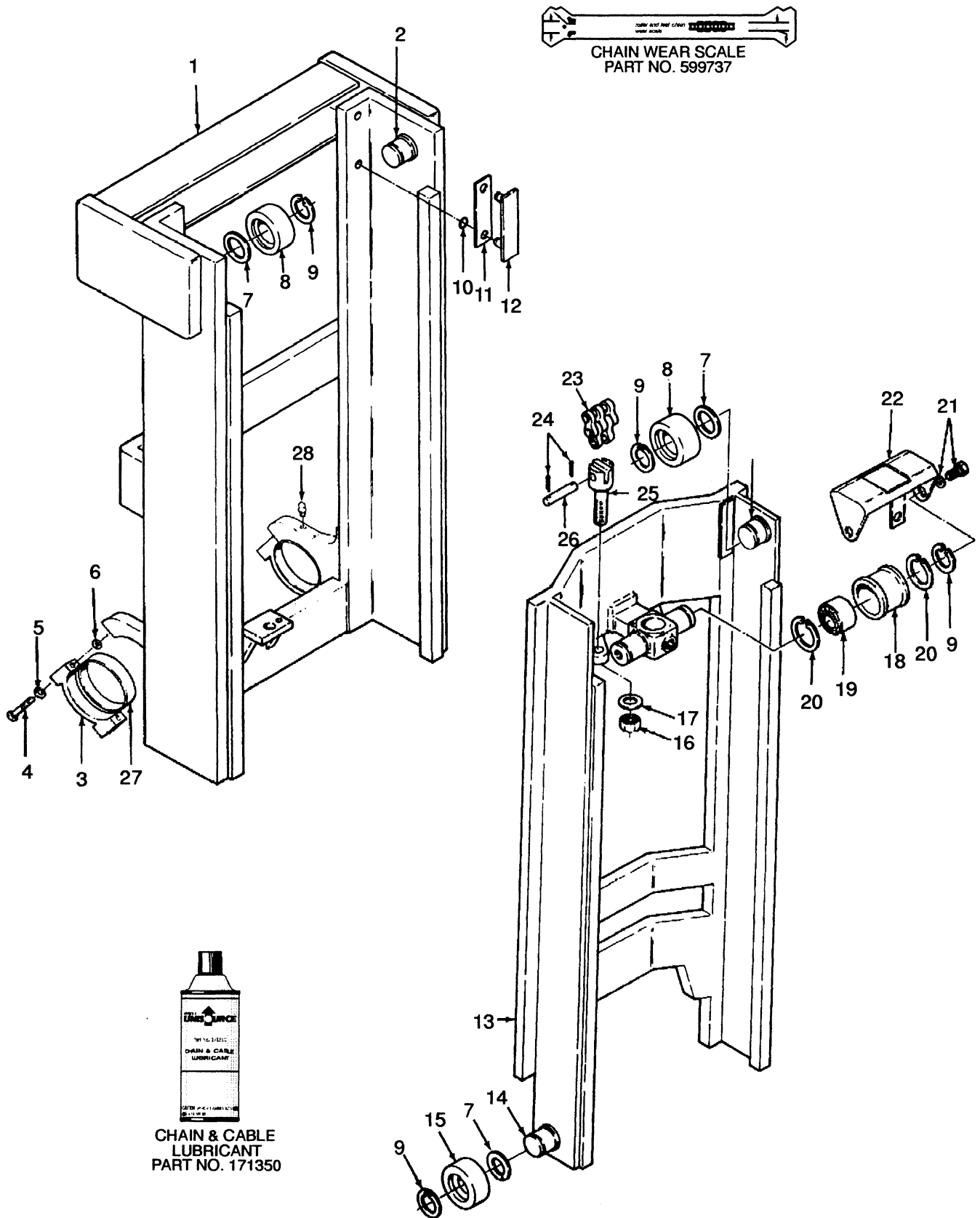
## INNER AND NUMBER THREE MAST (Figure 137)

### 4-STG FFL (A515)



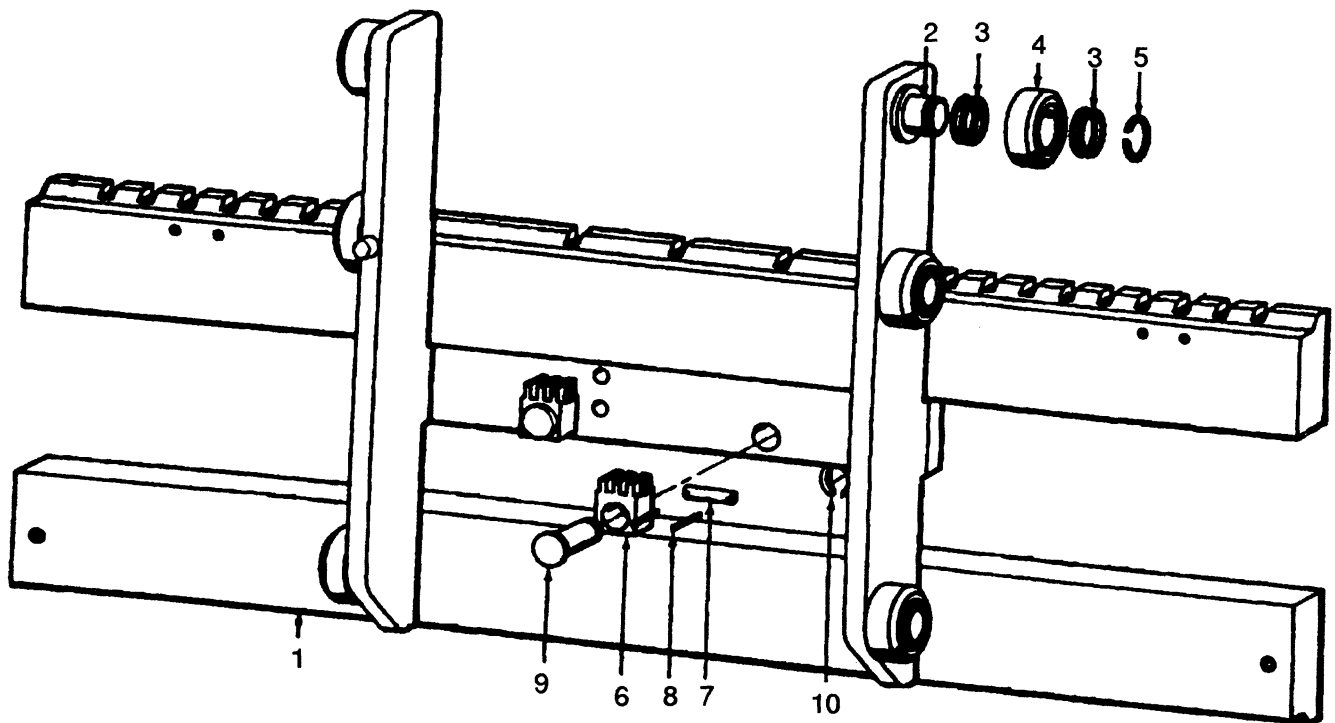
## OUTER AND NUMBER TWO MAST (Figure 143)

### 4-STG FFL (B515)



## CARRIAGE (Figure 149)

### 4-STG FFL (B515)

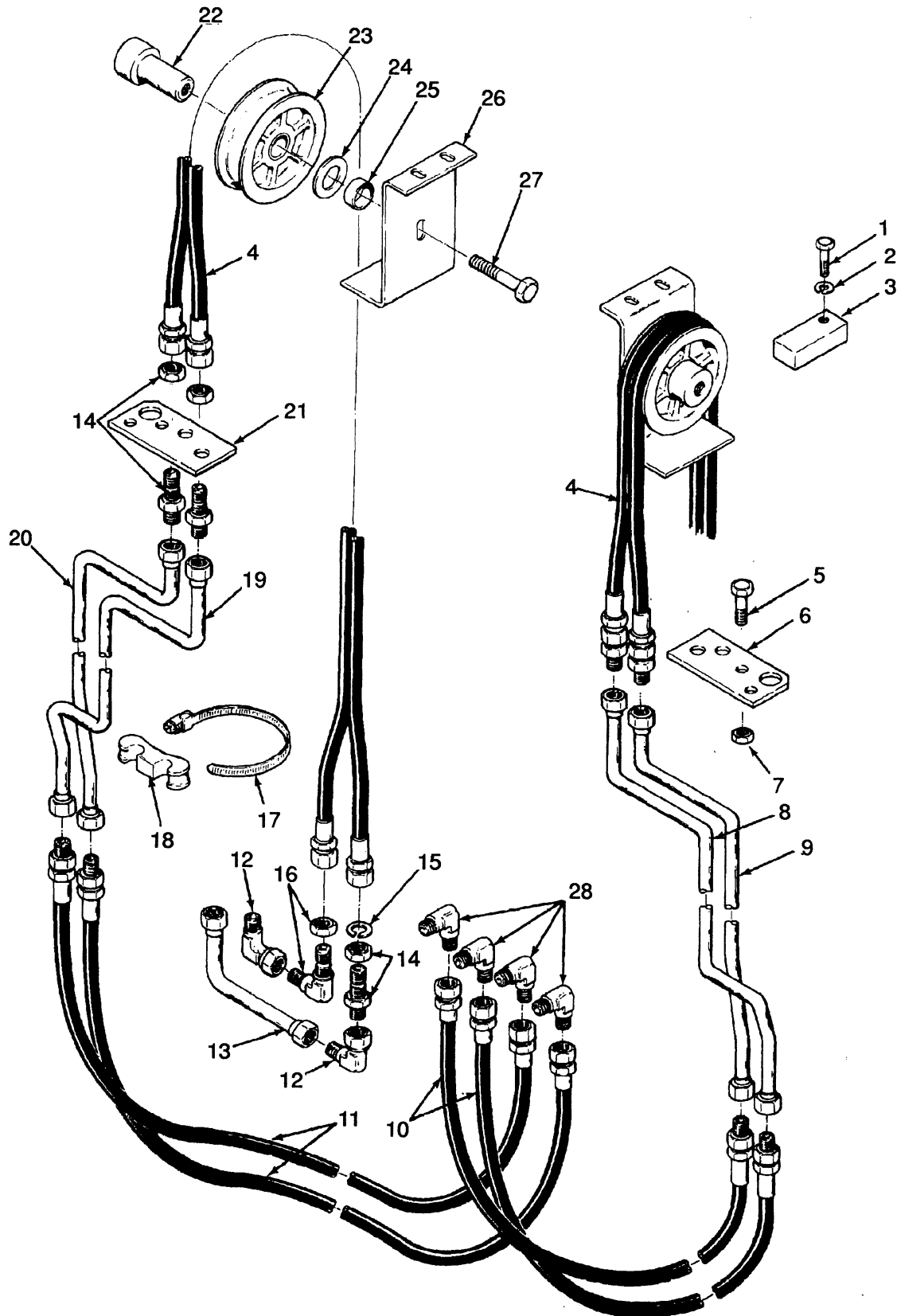


REF PART NO.	NAME OF PART	QTY	REF PART NO.	NAME OF PART	QTY
	349323 Carriage .....	1	4	1334432 Load Roller (.060 in) .....	AR
	377483 Carriage .....	1	5	58901 Snap Ring .....	6
1	377484 Frame .....	2	6	136330 Chain Anchor .....	2
2	129259 Stubshaft .....	6	7	135306 Pin .....	2
3	129387 Shim .020 in .....	AR	8	15200 Cotter Pin .....	4
4	1310329 Load Roller (Standard) .....	6	9	147223 Pin .....	2
4	1334431 Load Roller (.030 in) .....	AR	10	131358 Snap Ring .....	2

## HEADER HOSE (Figure 155)

371000 SERIES MASTS

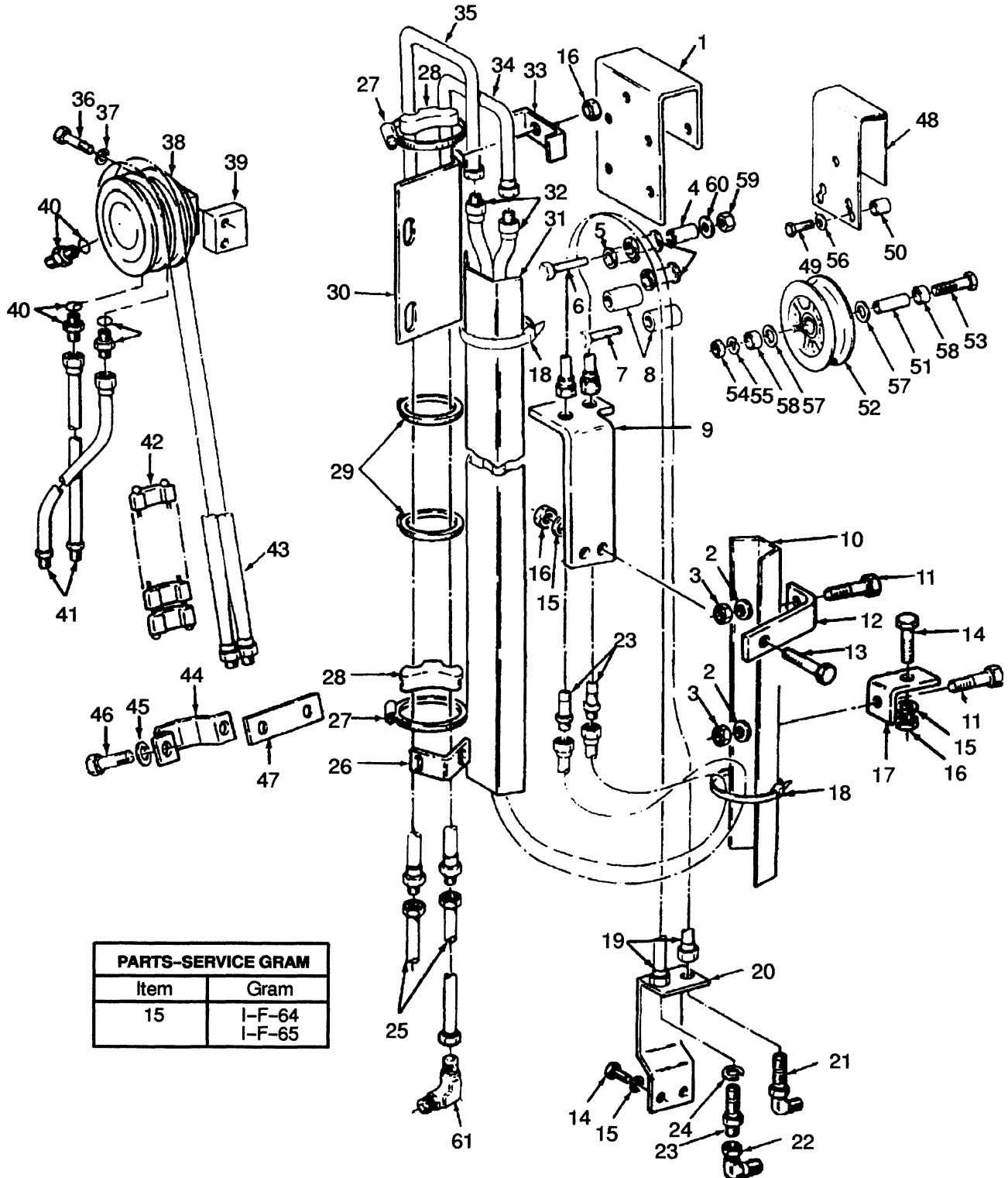
2-STG LFL



## HEADER HOSE (Figure 158)

### 362000, 367000 & 386000 SERIES MASTS

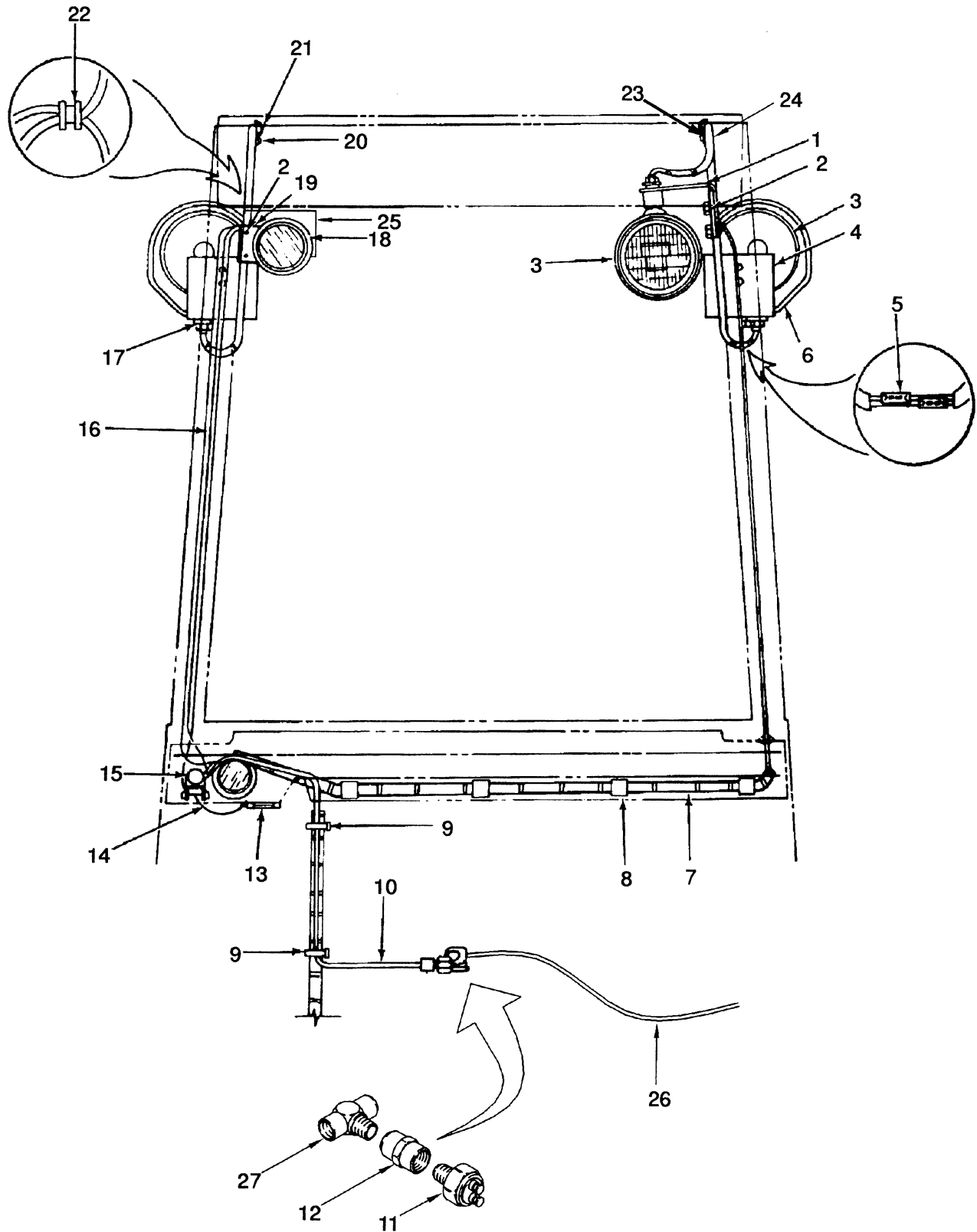
### 2-STG FFL



PARTS-SERVICE GRAM	
Item	Gram
15	I-F-64 I-F-65

## LIGHTS (Figure 161)

U.S.



## NUMERICAL INDEX

PART NO	REF PAGE NO	PART NO	REF PAGE NO	PART NO	REF PAGE NO	PART NO	REF PAGE NO	PART NO	REF PAGE NO
126	89 19	14482	273 29		247 18	15056	163 21		165 5
	89 8	14489	183 2	14604	137 14		307 11		51 46
	91 28		185 2	14676	173 35		51 12		54 65
	93 32	14500	149 46		179 38		61 21		91 31
141	161 13	14505	171 48		183 33		63 9		93 34
	163 27		173 35		185 33		65 17	15156	101 22
142	161 15		173 36	14693	273 25	15107	261 5		107 23
	163 14		175 35	14760	289 14	15125	273 19		129 44
	163 14		175 36		289 16	15127	103 45		157 17
	167 8		177 53		300 23		105 11		19 22
	93 17		179 38	14762	275 15		107 46		227 28
172	283 3		179 39	14763	227 34		125 60		230 28
7882	53 39		181 39		227 35		193 19		249 23
	53 42		183 43		230 34		197 8		263 32
	53 43		185 43		230 46		201 8		269 21
12445	86	14538	149 45	14899	161 34		264 10		271 4
12815	21 30	14560	173 18		309 27		61 35		271 4
	37 53		175 18	14955	161 26		76 8		300 45
	51 26		179 21	15002	101 18	15130	289 24		307 10
12816	185 26		181 21		107 18		292 44		307 10
12829	175 56		183 15		76 7		296 3		313 17
	181 54		185 15		89 1		296 43		51 10
12841	185 67		193 22		89 10		300 57		51 2
12850	175 55		197 34		89 17		304 28		57 20
	181 7		201 33		91 25		304 3		57 34
12911	271 20	14585	195 47		91 35	15133	8 2		61 24
12921	259 11	14586	173 11		93 29	15134	51 9		63 10
	275 8		175 11		93 36		57 27		65 16
12949	195 22		179 14	15004	132 11	15135	188 12	15158	17 3
	195 31		181 14	15005	155 1	15136	227 24		188 10
	199 18		183 8		165 5		230 24	15159	287 10
	199 35		185 8	15006	163 12		249 19		289 15
	199 44		195 47		57 20		263 23		292 28
	203 18		199 52		65 55	15151	163 43		296 20
	203 35		199 61	15024	132 8		167 20		296 53
	203 44		203 53	15026	161 16	15152	119 24		300 24
12977	233 14	14587	173 10		163 19		123 29		304 25
14189	155 32		175 10		163 19		125 24		304 41
14349	161 31		179 13		163 39		129 8	15160	273 20
	67 2		181 13	15032	145 21	15154	193 19	15162	227 23
	81 25		183 7		147 25		197 8		230 23
14358	61 16		185 7		149 31		201 8		249 20
	63 15		195 42	15039	117 19		284 13		263 22
	65 7		199 56		121 10		58	15164	275 4
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