

Timberjack 325/330/360 Skidder

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

If this product contains a gasoline engine:

 **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

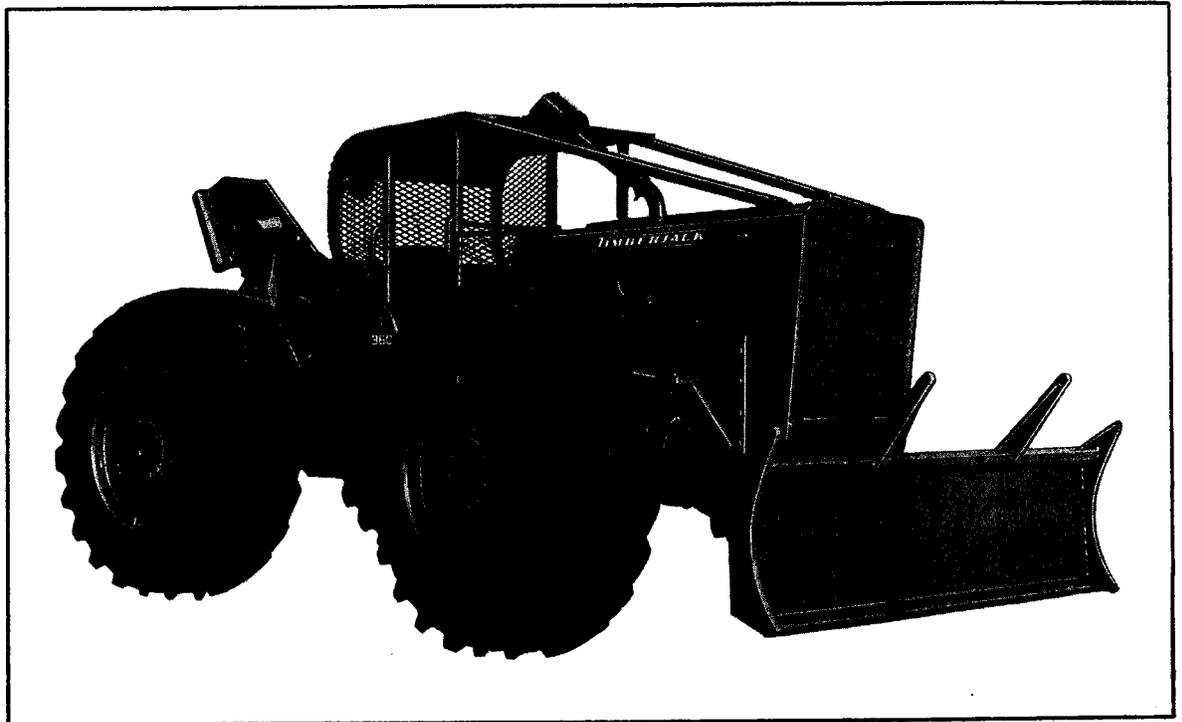
The State of California requires the above two warnings.

TIMBERJACK®

300 SERIES SKIDDER

ILLUSTRATED PARTS MANUAL

300B



TIMBERJACK
MACHINES LIMITED



HEAD OFFICE AND FACTORY: WOODSTOCK, ONTARIO, CANADA

® TRADEMARK

2nd PRINTING JANUARY 1969

INTRODUCTION

This book has been completed from current data to assist you in correct ordering of parts for all 300 Series Timberjacks. Some of the items therefore apply to all machines, and others apply to specific models. When preparing a parts order, it is essential therefore that the model number of the Timberjack be known.

Improvements in machine design are continually in progress. These improvements are incorporated in production machines, therefore it is also important to know the serial number of the Timberjack you are ordering parts for.

Amendments and corrections are issued from time to time by Parts Bulletins and Service Bulletins. It is suggested these changes be incorporated in your Parts Manual as they arrive. Additional space has been provided for this by double spacing of lines.

FOREWARNING

Please note that the design and contents of this Manual are the explicit property of Timberjack Machines Limited. They must not be copied or reproduced in any way, either directly or indirectly without the written consent of Timberjack Machines Limited. The acceptance of this Manual will be considered as acceptance of the foregoing agreement.

ORDERING OF PARTS

When ordering parts include the following information:

1. Model and serial numbers of Timberjack.
2. Purchase order number.
3. Shipping instructions.
4. Address to be shipped.
5. Address to send invoice.
6. Part number(s) and description(s)

NOTE: All telephone orders must be followed by a written order.

RETURN OF PARTS

The following instructions must be strictly adhered to when returning parts to the Parts Department of Timberjack Machines Limited, Woodstock, Ontario.

1. A list of parts you wish to return must be submitted to the Parts Manager, showing the part number, description and quantity of each part.
2. Do not forward the parts until you have written authorization from the Parts Manager.
3. Parts must be shipped prepaid.
4. Ship only those items which in your opinion are unused and can be resold as new items.
5. Upon receipt of these parts at Timberjack Machines, our Inspection Department will review the items, then forward them to our Parts warehouse and full credit will be issued.

On receipt of a parts shipment from our Parts Department, check to insure your order has been filled. If items not included do not indicate they are "back ordered", advise the Parts Manager immediately, itemizing all items short.

If an overage occurs, please advise the Parts Manager in the same manner.

A SUBSIDIARY OF
**EATON
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TOWNE**

TIMBERJACK
MACHINES LIMITED



For your convenience the Parts Manual contains the following Service Charts:

1. Standard Torque Chart.
2. Fraction of an inch, decimal, and metric equivalent Chart.
3. Weights and measures - conversion chart (metric).



STANDARD TORQUE CHART - TIMBERJACK

Bolt and Nut Size Inch	Ft. /lbs. Torque	Kilogram Meters Torque
1/4	11	1.52
5/16	21	2.90
3/8	38	5.26
7/16	55	7.61
1/2	85	11.8
9/16	125	17.3
5/8	175	24.2
3/4	300	41.5
7/8	450	62.3
1	680	94.2

NOTE: The above Torque Chart applies to bolts in the Timberjack chassis. For Torque figure pertaining to engines, refer to the appropriate Engine overhaul manual.

Exceptions to Standard Torques which apply to the Timberjack

	Ft. /lbs.	Kg/m
Winch hold down bolts	300	41.5
Axle mounting bolts	300	41.5
Drive shaft "U" bolts	27	3.73
Drive shaft flange and yoke bolts	67	9.26
Wheel nuts	340	47.0
Pillow Block Mounting Bolts	180	25.0

To convert ft. /lbs. to Kilogram meters, multiply by .1383



FRACTION OF AN INCH, DECIMAL AND METRIC EQUIVALENT

Fraction of an Inch	Decimal of an Inch	Decimal of a Mm.	Fraction of an Inch	Decimal of an Inch	Decimal of a Mm.
$\frac{1}{64}$	.015625	0.39688	$\frac{33}{64}$	.515625	13.09690
$\frac{1}{32}$ ....	.03125	0.79375	$\frac{17}{32}$ ....	.53125	13.49378
$\frac{3}{64}$	.046875	1.19063	$\frac{35}{64}$	.546875	13.89065
$\frac{1}{16}$ .....	.0625	1.58750	$\frac{9}{16}$ .....	.5625	14.28753
$\frac{5}{64}$	.078125	1.98438	$\frac{37}{64}$	.578125	14.68440
$\frac{3}{32}$ ....	.09375	2.38125	$\frac{19}{32}$ ....	.59375	15.08128
$\frac{7}{64}$	.109375	2.77813	$\frac{39}{64}$	.609375	15.47816
$\frac{1}{8}$ .....	.125	3.17501	$\frac{5}{8}$ .....	.625	15.87503
$\frac{9}{64}$	.140625	3.57188	$\frac{41}{64}$	.640625	16.27191
$\frac{5}{32}$ ....	.15625	3.96876	$\frac{21}{32}$ ....	.65625	16.66878
$\frac{11}{64}$	.171875	4.36563	$\frac{43}{64}$	.671875	17.06566
$\frac{3}{16}$ .....	.1875	4.76251	$\frac{11}{16}$ .....	.6875	17.46253
$\frac{13}{64}$	.203125	5.15939	$\frac{45}{64}$	.703125	17.85941
$\frac{7}{32}$ ....	.21875	5.55626	$\frac{23}{32}$ ....	.71875	18.25629
$\frac{15}{64}$	.234375	5.95314	$\frac{47}{64}$	.734375	18.65316
$\frac{1}{4}$ .....	.25	6.35001	$\frac{3}{4}$ .....	.75	19.05004
$\frac{17}{64}$	.265625	6.74689	$\frac{49}{64}$	.765625	19.44691
$\frac{9}{32}$ ....	.28125	7.14376	$\frac{25}{32}$ ....	.78125	19.84379
$\frac{19}{64}$	.296875	7.54064	$\frac{51}{64}$	.796875	20.24067
$\frac{5}{16}$ .....	.3125	7.93752	$\frac{13}{16}$ .....	.8125	20.63754
$\frac{21}{64}$	.328125	8.33439	$\frac{53}{64}$	.828125	21.03442
$\frac{11}{32}$ ....	.34375	8.73127	$\frac{27}{32}$ ....	.84375	21.43129
$\frac{23}{64}$	.359375	9.12814	$\frac{55}{64}$	.859375	21.82817
$\frac{3}{8}$ .....	.375	9.52502	$\frac{7}{8}$ .....	.875	22.22504
$\frac{25}{64}$	.390625	9.92189	$\frac{57}{64}$	.890625	22.62192
$\frac{13}{32}$ ....	.40625	10.31877	$\frac{29}{32}$ ....	.90625	23.01880
$\frac{27}{64}$	.421875	10.71565	$\frac{59}{64}$	.921875	23.41567
$\frac{7}{16}$ .....	.4375	11.11252	$\frac{15}{16}$ .....	.9375	23.81255
$\frac{29}{64}$	.453125	11.50940	$\frac{61}{64}$	.953125	24.20942
$\frac{15}{32}$ ....	.46875	11.90627	$\frac{31}{32}$ ....	.96875	24.60630
$\frac{31}{64}$	.484375	12.30315	$\frac{63}{64}$	.984375	25.00318
$\frac{1}{2}$ .....	.500	12.70003	1	1.00	25.40005



CONVERSION CHART

1 inch	=	25.4 millimeters	1 millimeter	=	.0394 inch
1 foot	=	.305 meters	1 meter	=	3.28 feet
1 yard	=	.915 meters	1 meter	=	1.09 yards
1 mile	=	1.609 kilometers	1 kilometer	=	.62 miles
<hr/>					
1 square inch	=	6.45 square cm.	1 square cm.	=	.155 sq. in.
1 square foot	=	.093 square meters	1 square meter	=	10.76 sq. ft.
1 square yard	=	.8361 square meters	1 square meter	=	1.196 sq. yds.
1 square mile	=	2.590 sq. kilometers	1 sq. kilometer	=	.3844 sq. mi.
	=	640 acres		=	247.1 acres
<hr/>					
1 pound	=	.45 kilograms	1 kilogram	=	2.22 pounds
1 ounce	=	28.35 grams	1 gram	=	.035 ounces
<hr/>					
1 pound per square inch	=	.070 kilograms per sq. centimeter.			
1 atmosphere	=	14.7 pounds per sq. in.	=	29.92 inches of mercury	=
	=	1.029 kilograms per sq. centimeter	=	760.0 millimeters of mercury.	
<hr/>					
1 cubic inch	=	16.39 cubic centimeters	1 cu. centimeter	=	.061 cu. in.
1 cubic foot	=	.028 cubic meters	1 cu. meter	=	35.31 cubic feet
<hr/>					
1 gallon (Imperial measure)	=	4.55 liters.	1 liter	=	.22 gallons
1 quart	=	1.14 liters	1 liter	=	.88 quarts

The Imperial gallon used in Canada, and the Standard gallon used in the United States differ in size. For purposes of converting, five Imperial gallons equal six Standard gallons (approx.).

SECTION—A
GENERAL ASSEMBLY



GENERAL ASSEMBLY

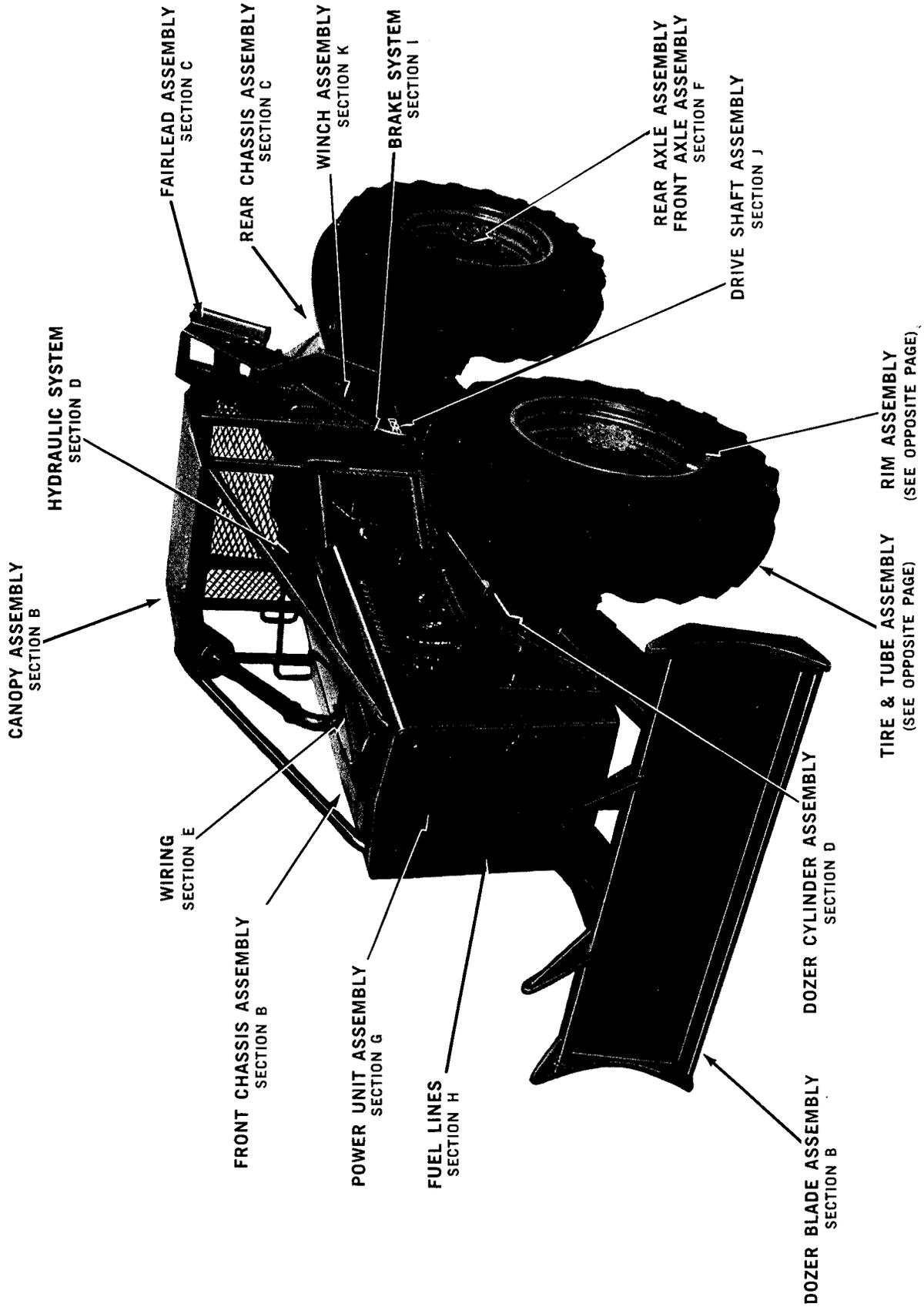


Fig. 1-A General Assembly



RIM AND TIRE ASSEMBLIES

ITEM	PART No.	DESCRIPTION	QUANTITY
1	203693 101074 202267	Rim & Tire Assembly - 16.9 x 34 - 10 Ply Nylon Tire Rim	
2	211323 103077 202267	Rim & Tire Assembly - 18.4 x 34 - 10 Ply Nylon Sure Grip Tire Rim	
3	202278 201079 202267	Rim & Tire Assembly - 18.4 x 34 - 8 Ply Nylon Tire Rim	
4	202279 201318 202267	Rim & Tire Assembly-18.4 x 34-10 Ply Shred. Wire Tire Rim	
5	202280 201452 202267	Rim & Tire Assembly-18.4 x 34-10 Ply Steel Guard Tire Rim	
6	211320 102393 211319	Rim & Tire Assembly - 18.4 x 38 - 10 Ply Nylon Tire Rim	
7	211322 101985 211319	Rim & Tire Assembly-18.4 x 38-10 Ply Shred. Wire Tire Rim	
8	211321 101986 211319	Rim & Tire Assembly-18.4 x 38-10 Ply Steel Guard Tire Rim	



SECTION—B
FRONT FRAME

FRONT FRAME ASSEMBLY

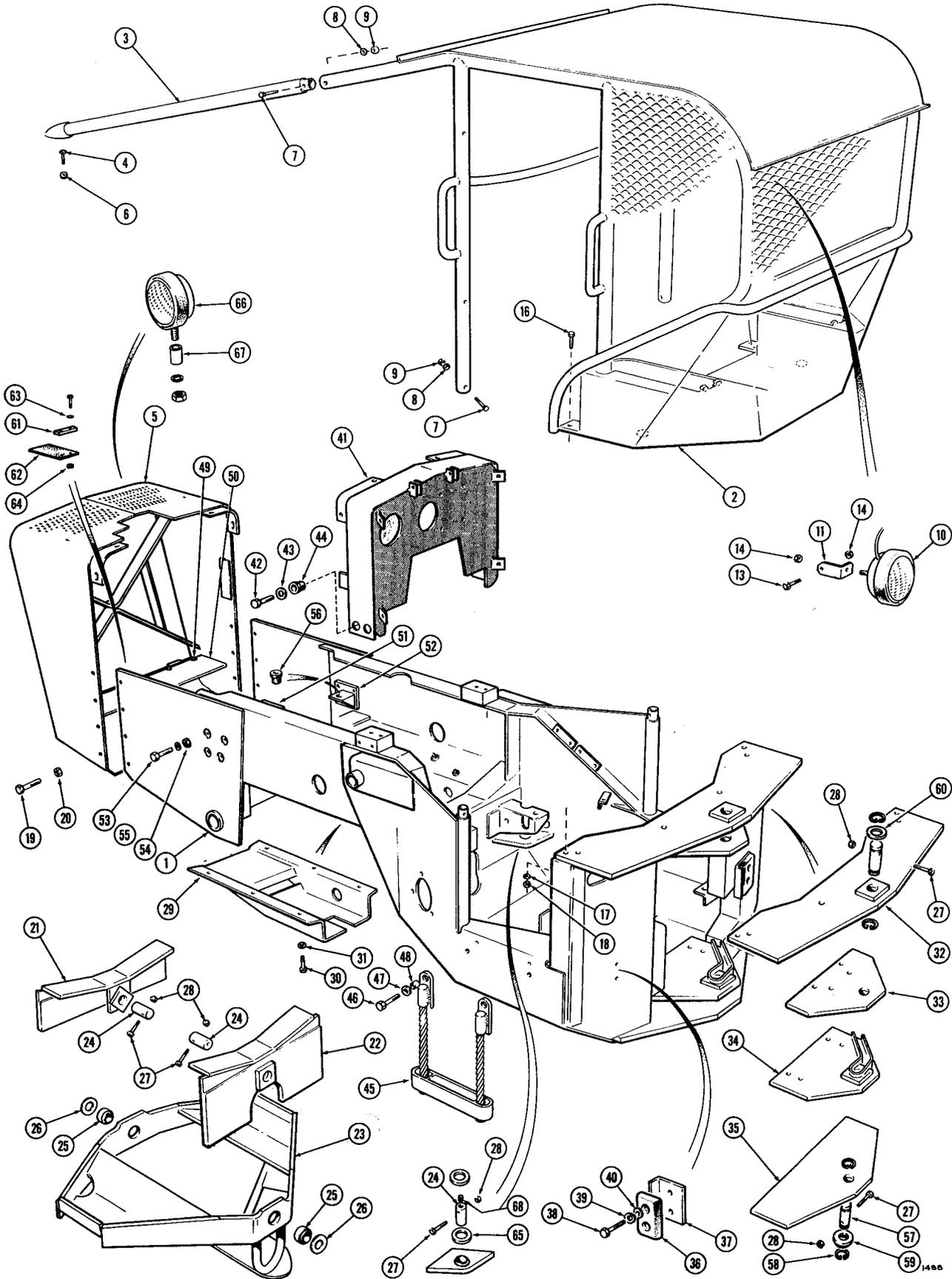


Fig. 1-B Front Frame Assembly



FRONT FRAME			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	501251	Front Frame Assembly - Model 360	1
	501643	Front Frame Assembly - Model 330	1
2	501120	Canopy Assembly	1
3	501123	Tube - Canopy - Model 360	2
	500214	Tube - Canopy - Model 330	2
4	101829	Bolt 5/8 - 11 UNC x 2 1/4	2
5	501561	Shroud - Model 360	1
	501626	Chin Tank and Shroud - Model 330	1
6	100551	Locknut 5/8 - 11 UNC	2
7	103769	Bolt, Carriage 1/2 - 13 UNC x 3	4
8	100024	Lockwasher 1/2	4
9	102091	Nut 1/2 - 13 UNC	4
10	103191	Rear Lamp	1
11	501602	Bracket	1
12			
13	100055	Bolt 1/2 - 13 UNC x 1 1/4	1
14	100616	Locknut 1/2 - 13 UNC	2
15			
16	100275	Bolt 5/8 - 11 UNC x 2	4
17	100436	Washer 5/8	4
18	100551	Locknut 5/8 - 11 UNC	4
19	104090	Bolt 5/8 - 18 UNF x 1 1/2 Gr. 8	8
20	104035	Locknut 5/8 - 18 UNF Gr. 8	8

FRONT FRAME

ITEM	PART No.	DESCRIPTION	QUANTITY
21	500116	Hanger Assembly Front	1
22	500039	Hanger Assembly Rear	1
23	501149	Walking Beam Assembly - Model 360	1
	500208	Walking Beam Assembly - Model 330	1
24	500247	Pin	2
25	102820	Self Aligning Bearing	8
26	200327	Thrust Washer	2
27	100231	Bolt 3/8 - 16 UNC x 4	8
28	101983	Locknut 3/8 - 16 UNC	8
29	500995	Belly Pan-Model 360	1
	500090	Belly Pan - Model 330	1
30	100273	Bolt 5/8 - 11 UNC x 1 1/2	6
31	100436	Plain Washer 5/8	6
32	500023	Plate Assembly - Top	1
33	500027	Plate Assembly - Top Inner	1
34	500104	Plate Assembly - Lower Inner	1
35	500025	Plate Assembly - Bottom	1
36	103849	Bumper Pad	2
37	501038	Bracket	2
38	100242	Bolt 1/2 - 13 UNC x 2	4
39	500930	Lockwasher 1/2	4
40	500931	Spacer	4



FRONT FRAME			
ITEM	PART No.	DESCRIPTION	QUANTITY
41	501034	Firewall and Bridge Assembly	1
42	100929	Bolt 1/2 - 20 UNF x 2	4
43	214519	Washer 1/2	4
44	103128	Rubber Bush	4
45	501138	Step	2
46	100953	Bolt 3/4 - 16 UNF x 2	4
47	100437	Washer 3/4	4
48	501131	Spacer	4
49	100056	Bolt 1/4 - 20 UNC x 3/4 - Model 360 only	6
50	501548	Dust Cover - Model 360 only	1
51	501269	Motor Mount,Front L. H. - Model 360 only	1
52	501270	Motor Mount,Front R. H. - Model 360 only	1
53	100927	Bolt 1/2 - 20 UNF x 1 1/2 - Model 360 Only	8
54	100652	Nut 1/2 - 20 UNF - Model 360 only	8
55	100024	Lockwasher 1/2 - Model 360 only	8
56	103423	Rubber Motor Mount - Model 360 only	2
57	501059	Pin	2
58	101418	Snap Ring	4
59	501058	Spacer	1
60	500878	Washer	1
61	501665	Hold Down - Model 360 only	1



FRONT FRAME

ITEM	PART No.	DESCRIPTION	QUANTITY
62	501625	Rubber Flap - Model 360 only	1
63	100029	Lockwasher 1/4 - Model 360 only	2
64	102087	Nut 1/4 - 20 UNC - Model 360 only	2
65	216028	Washer	As Req'd
66	102188	Front Lamp	2
67	211503	Spacer	2
68	100689	Plug (Rear Frame End Only)	1



DOZER ASSEMBLY

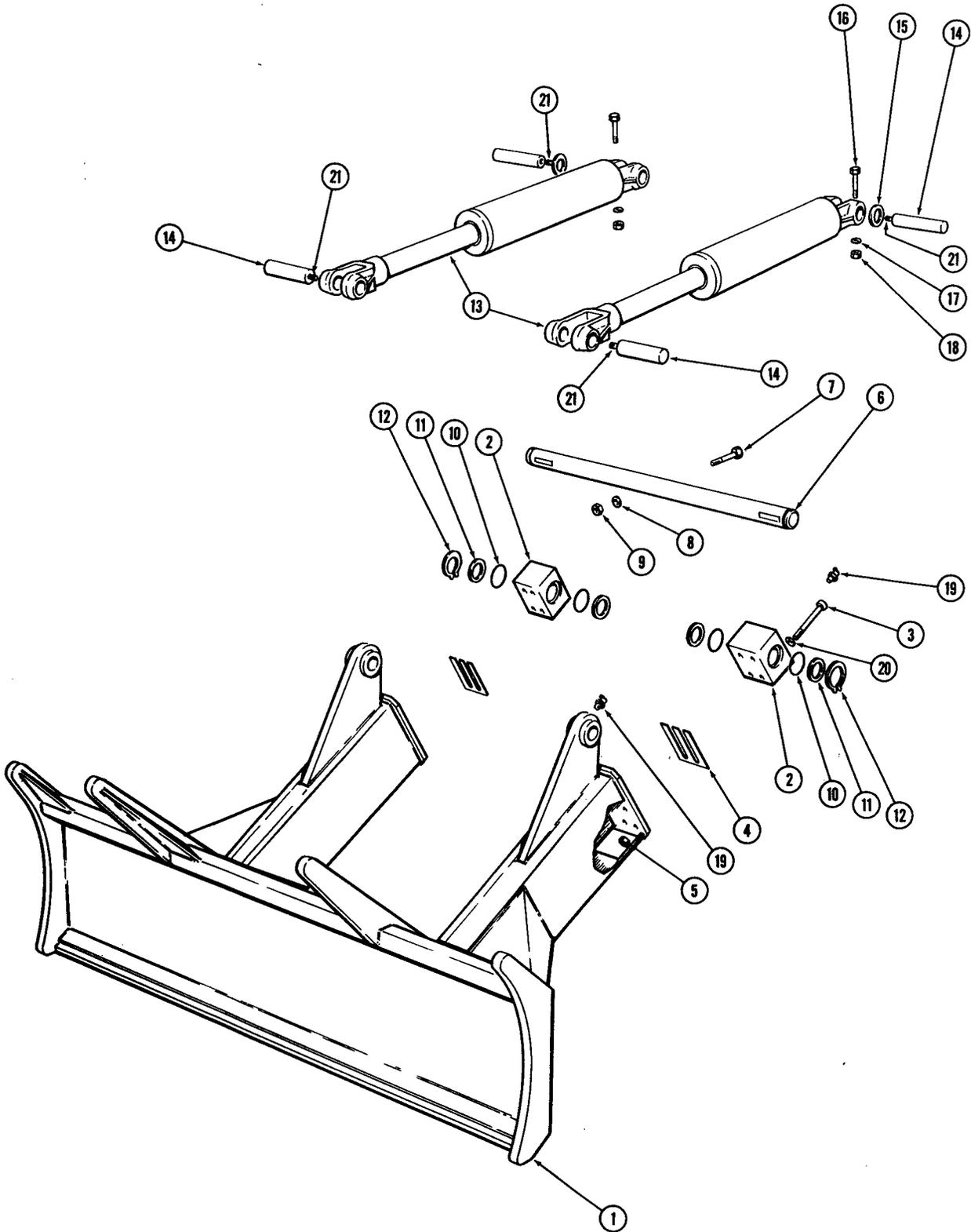


Fig. 2-B Dozer Assembly



DOZER ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	501202	Dozer Blade	1
2	501160	Bearing Block	2
3	104036	Cap Screw 5/8 -18 UNF x 5 1/2 Gr. 8	8
4	501304	Shim 16G.	As Req'd
	501305	Shim 11G.	As Req'd
	501306	Shim 3/16	As Req'd
5	104035	Locknut 5/8 - 18 UNF	8
6	501161	Shaft, Dozer Blade Mounting	1
7	<i>103904</i> 103904	Locking Bolt 5/8 UNF x 4 1/2 Gr. 8	1
8	100436	Washer 5/8	1
9	104035	Locknut 5/8 UNF	1
10	104038	'O' Ring	4
11	104032	Thrust Washer 1/32	As Req'd
	104033	Thrust Washer 1/8	As Req'd
	104034	Thrust Washer 3/16	As Req'd
12	104037	Retaining Ring	2
13	501364	Dozer Cylinder Assembly L. H. (See Page	1
	501365	Dozer Cylinder Assembly R. H.	
14	500247	Pivot Pin	4
15	500692	Spacer	2
16	100231	Retaining Bolt 3/8-16 UNC x 4	4
17	100026	Lockwasher 3/8	4
18	102089	Nut 3/8-16 UNC	4



DOZER ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
19	100001	Grease Nipple 1/8-27 NPT	4
20	100005	Flat Washer, Hardened 5/8	8
21	100689	Plug	4



REMOVABLE PANELS - FRONT FRAME

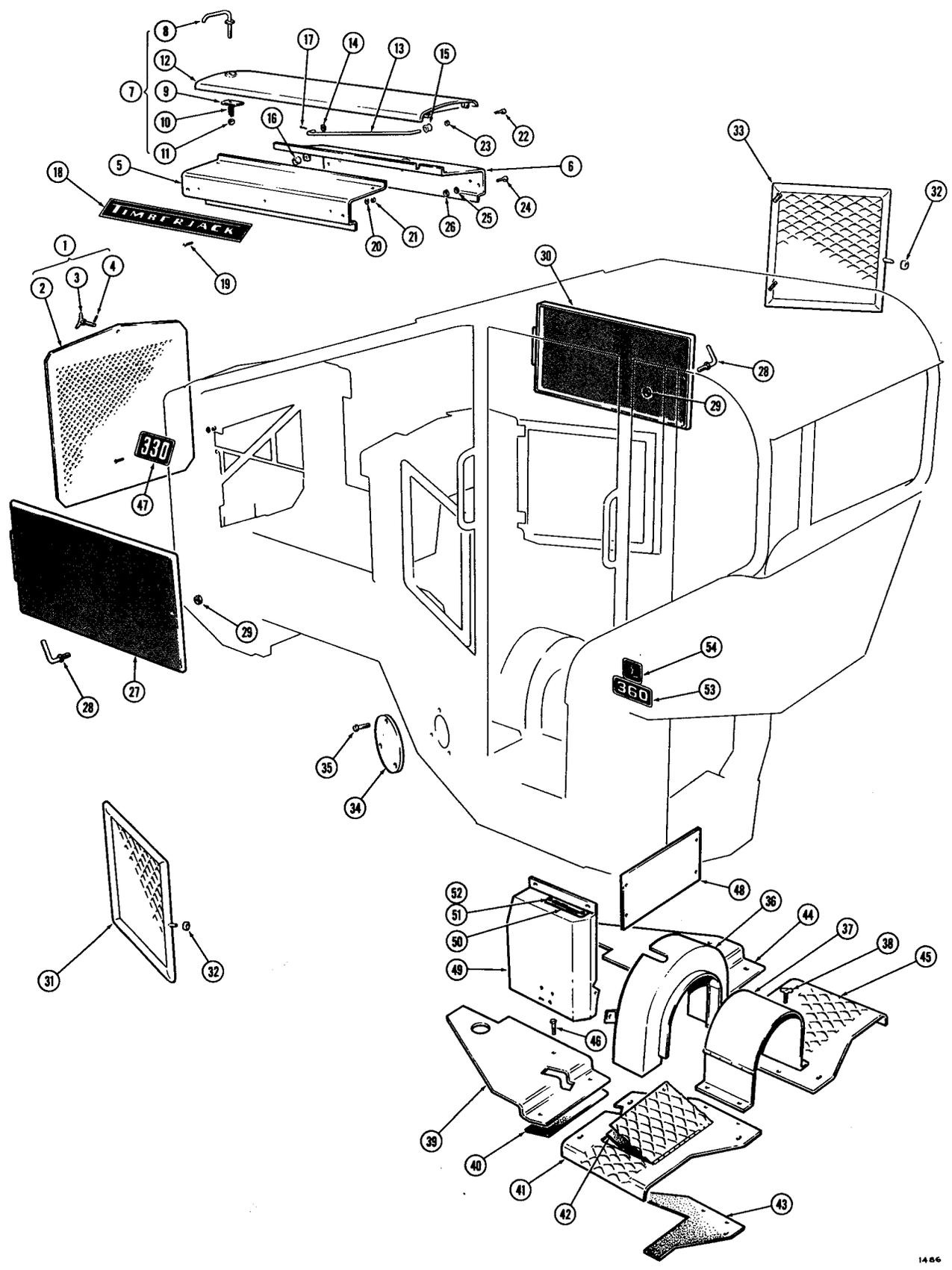


Fig. 3-B Removable Panels - Front Frame

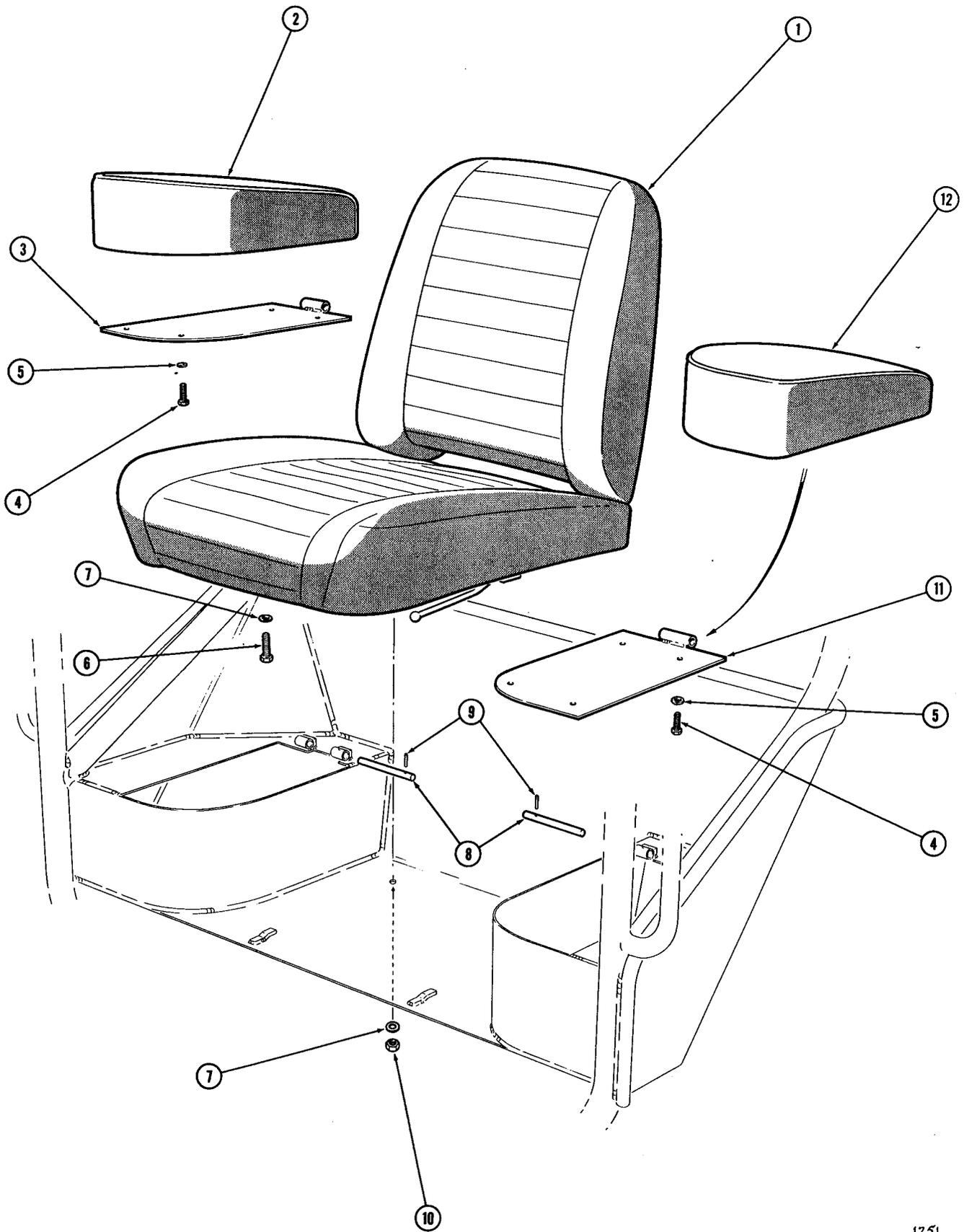


REMOVEABLE PANELS			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	501637	Grille Assembly - Model 330 (Comprises Items 2, 3 and 4)	1
	501550	Grille Assembly - Model 360 (Comprises Items 2, 3 and 4)	1
2	501638	Grille - Model 330	1
	501549	Grille - Model 360	1
3	202447	Bolt	1
4	101085	Spirol Pin	1
5	500415	Hood Panel L. H. - Model 330	1
	501283	Hood Panel L. H. - Model 360	1
6	500416	Hood Panel R. H. - Model 330	1
	501284	Hood Panel R. H. - Model 360	1
7	500727	Hood Assembly - Model 330 (Comprises Items 8, 9, 10, 11, 12)	1
	501280	Hood Assembly - Model 360 (Comprises Items 8, 9, 10, 11, 12)	1
8	500438	Handle Assembly	1
9	207054	Latch	1
10	101998	Spring	1
11	100096	Locknut 5/8 - 18 UNF	1
12	500427	Hood - Model 330	1
	501282	Hood - Model 360	1
13	500434	Hood Support	1
14	100064	Washer 3/8	1
15	500440	Bushing	1



REMOVEABLE PANELS			
ITEM	PART No.	DESCRIPTION	QUANTITY
16	103223	Grommet	1
17	101293	Cotter Pin 1/8	1
18	204821	Name Plate	2
19	103439	Screw # 10 - 24 UNC x 3/4	6
20	100497	Washer # 10	6
21	100496	Nut # 10 - 24 UNC	6
22	100225	Bolt 3/8 - 16 UNC x 1 3/4	2
23	101637	Locknut 3/8 - 16 UNC	2
24	103919	Bolt 1/2-20 UNF x 1 1/8	8
25	100116	Lockwasher 1/2	8
26	100652	Nut 1/2 - 20 UNF	8
27	500585	Screen L. H. - Model 330 (Includes Item 28)	1
	501289	Screen L. H. - Model 360 (Includes Item 28)	1
28	500621	Handle	2
29	104194	Retaining Locknut 1/2-13 UNC	2
30	500586	Screen R. H. - Model 330 (Includes Item 28)	1
	501290	Screen R. H. - Model 360 (Includes Item 28)	1
31	500566	Side Screen L. H.	1
32	500568	Rubber Ring	2

REMOVEABLE PANELS			
ITEM	PART No.	DESCRIPTION	QUANTITY
33	500567	Side Screen R. H.	1
34	500604	Cover Plate	2
35	100273	Bolt 5/8 - 11 UNC x 1 1/2	6
36	500670	Cover	1
37	500664	Tunnel	1
38	500812	Thumb Screw	1
39	501355	Front Floor Plate L. H.	1
40	500814	Insulation	1
41	501369	Main Floor Assembly L. H.	1
42	500813	Insulation	1
43	500815	Insulation	1
44	501356	Front Floor Plate R. H.	1
45	501370	Main Floor Assembly R. H.	1
46	100902	Bolt 3/8 - 24 UNF x 1	20
47	500123	Number Plate - Model 330	2
48	501230	Cover	1
49	501242	Gear Shift Cover	1
50	501232	Gate	1
51	100233	Bolt 3/8 - 16 UNC x 1 1/4	2
52	100064	Plain Washer 3/8	2
53	501207	Number Plate - Model 360	2
54	501208	Timberjack Trademark - Model 360	2

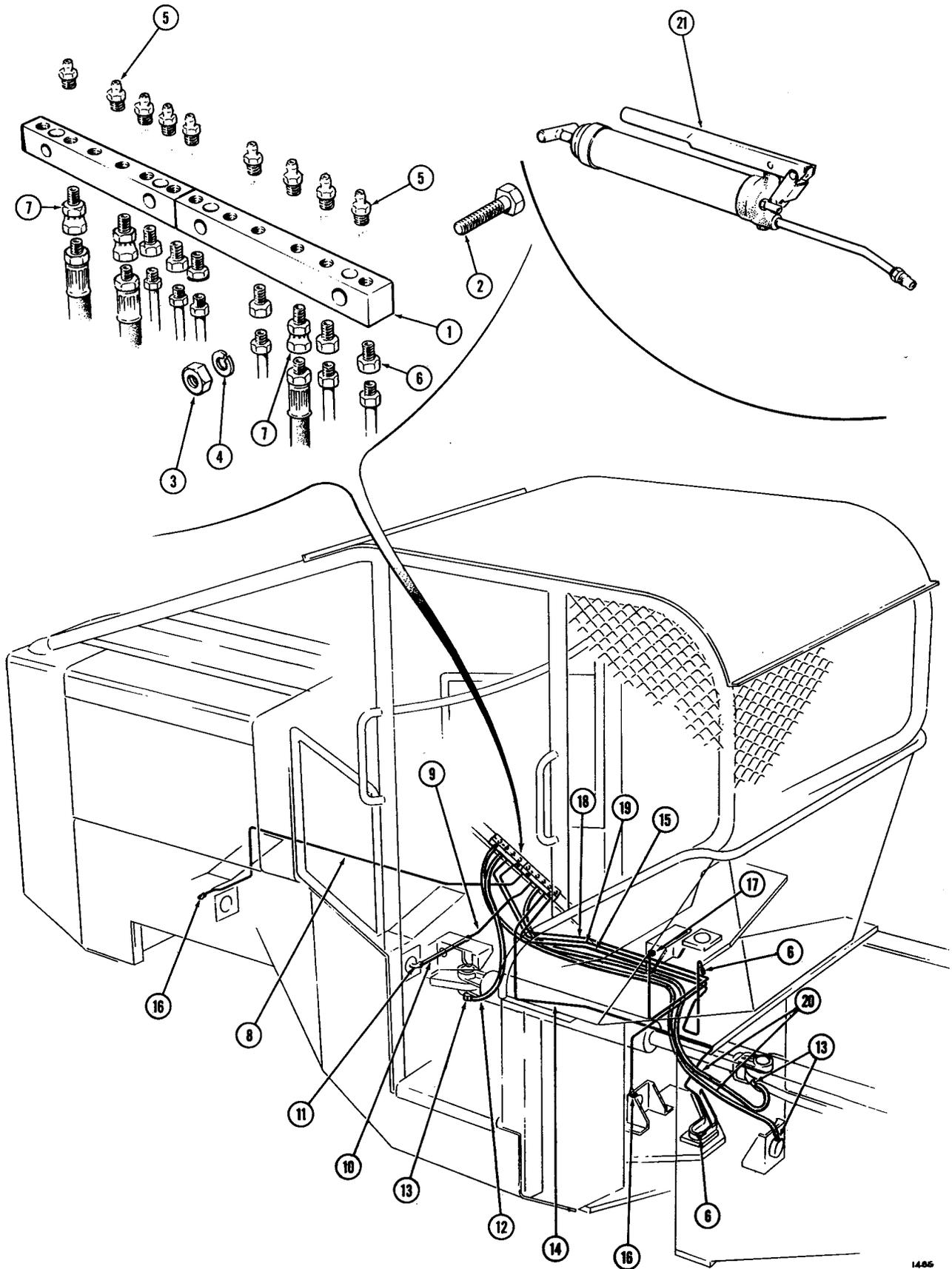


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Fig. 4-B Seat and Arm Rest Assembly



SEAT AND ARM REST ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	103129	Seat Assembly	1
2	500089	Arm Rest R. H.	1
3	500261	Arm Rest Base Assembly R. H.	1
4	100222	Bolt 3/8 - 16 UNC x 1	12
5	100026	Lockwasher 3/8	8
6			
7	100073	Lockwasher	6
8	500256	Hinge Pin	2
9	101085	Spirol Pin	2
10	101503	Locknut 5/16 - 18 UNC	2
11	500260	Arm Rest Base Assembly L. H.	1
12	500088	Arm Rest L. H.	1



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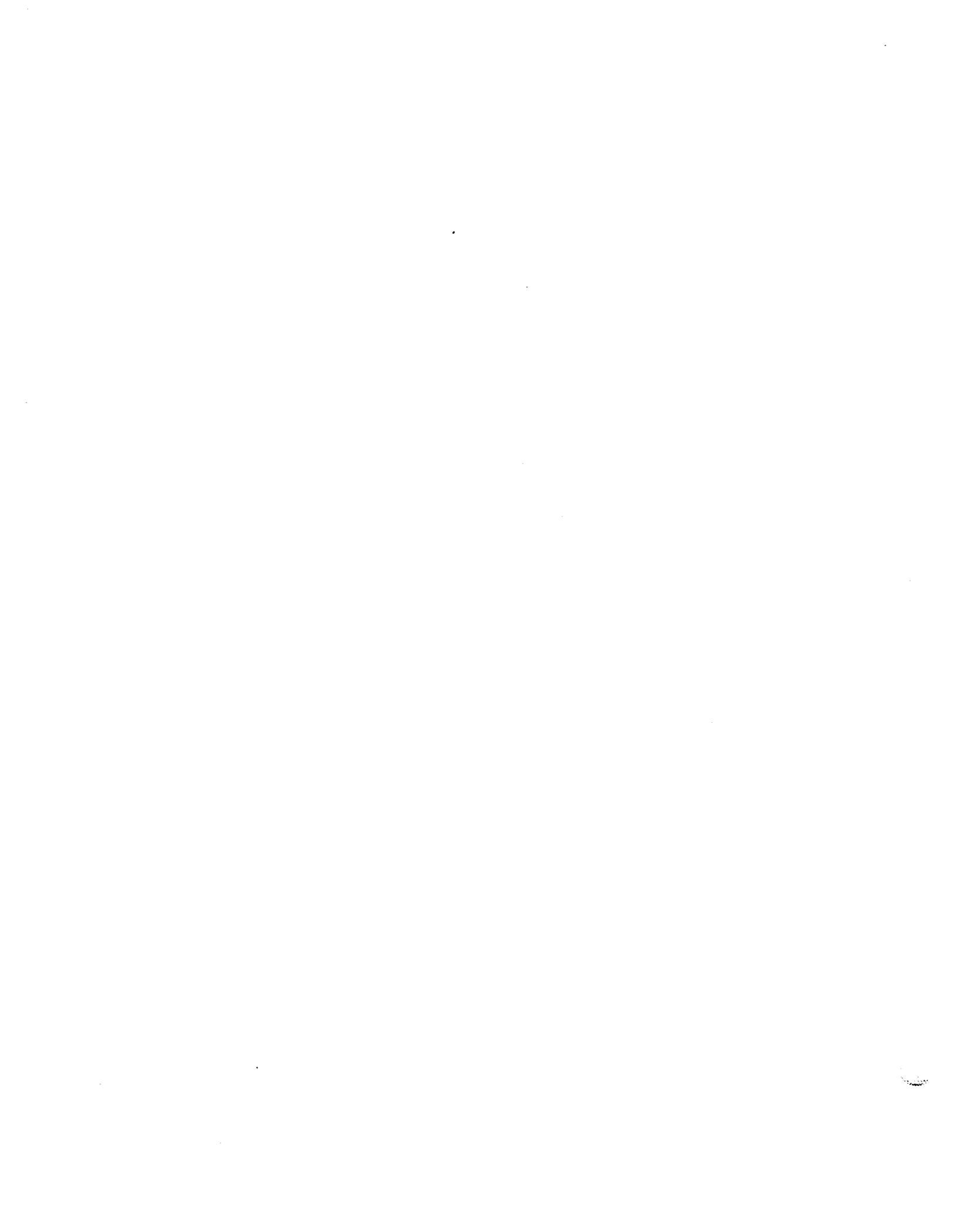
Fig. 5-B Central Lubrication System



CENTRAL LUBRICATION SYSTEM			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	101949	Grease Block	2
2	101796	Bolt 5/16 - 18 UNC x 1 1/2	4
3	102088	Nut 5/16 - 18 UNC	4
4	100073	Lockwasher 5/16	4
5	100001	Grease Fitting	9
6	100676	Connector	6
7	101178	Swivel Adaptor	3
8	500583	Tubing Assembly	1
9	500582	Tubing Assembly	1
10	500676	Pipe Assembly	1
11	101219	Elbow	1
12	100587	Hose Assembly	1
13	102147	Reducing Elbow ✕	3
14	501386	Tubing Assembly	1
15	501387	Tubing Assembly	1
16	100683	Elbow	2
17	104128	Elbow 45°	1
18	501384	Tubing Assembly, Upper Pillow Block	1
19	501385	Tubing Assembly, Lower Pillow Block	1
20	104129	Hose Assembly	2
21	103171	Grease Gun	1



SECTION—C
REAR FRAME





REAR FRAME AND FAIRLEAD ASSEMBLY

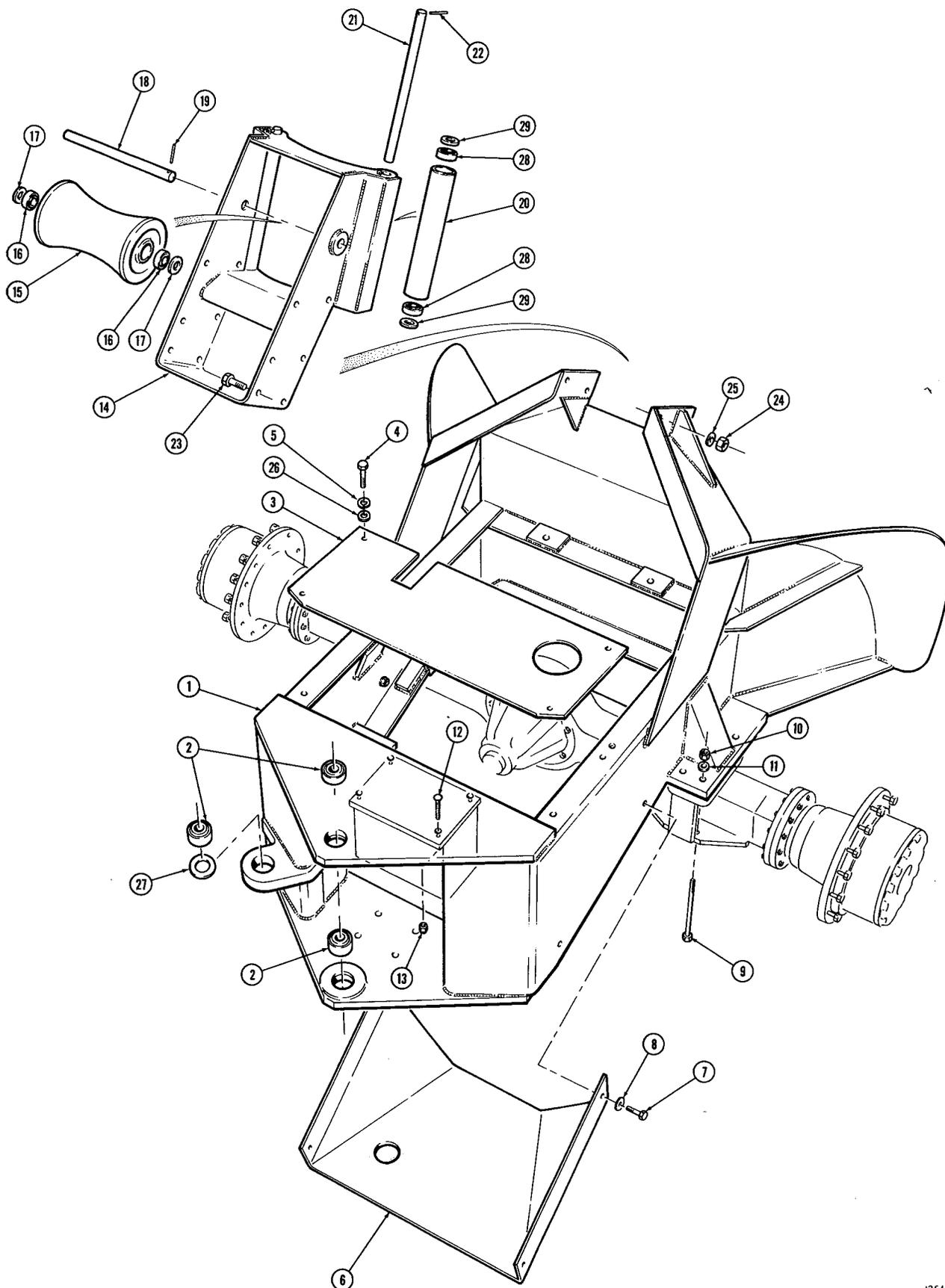


Fig. 1-C Rear Frame and Fairlead Assembly



REAR FRAME AND FAIRLEAD ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500160	Frame Weldment - Rear	1
2	102820	Bushing	3
3	501057	Cover	1
4	100926	Bolt 1/2 - 20 UNF x 1 1/4	4
5	100024	Lockwasher 1/2	4
6	500164	Belly Pan - Rear Frame	1
7	100273	Bolt 5/8 - 11 UNC x 1 1/2	4
8	100436	Washer 5/8	4
9	103895	Bolt 3/4 - 16 UNF x 8 1/4	8
10	103693	Nut 3/4 - 16 UNF	8
11	100021	Washer, Hardened 3/4	8
12	103249	Bolt 5/8 - 11 UNC x 2 3/8	4
13	103248	Locknut 5/8 - 11 UNC	4
	215070	Fairlead Assy. - Adjustable	
14	215086	Fairlead Weldment	1
15	215069	Arch Roller	1
16	104156	Bearing	6
17	215376	Spacer	2
18	215050	Pin	1
19	100090	Spirol Pin 3/8 x 2	1
20	203991	Roller	2



REAR FRAME AND FAIRLEAD ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
21	203992	Pin	2
22	100658	Spirol Pin 3/8 x 3	2
23	103879	Bolt 1 - 12 UNF x 2 Gr. 8	4
24	103789	Nut 1 - 12 UNF	4
25	100202	Washer Hardened	4
26	100077	Washer 1/2	4
27	216028	Washer	As Req'd
28	200029	Ball Bearing	4
29	100016	Spacer	4

SECTION—D
HYDRAULIC SYSTEM





HOSES AND ASSOCIATED PARTS -
TIMBERJACK MODEL 330

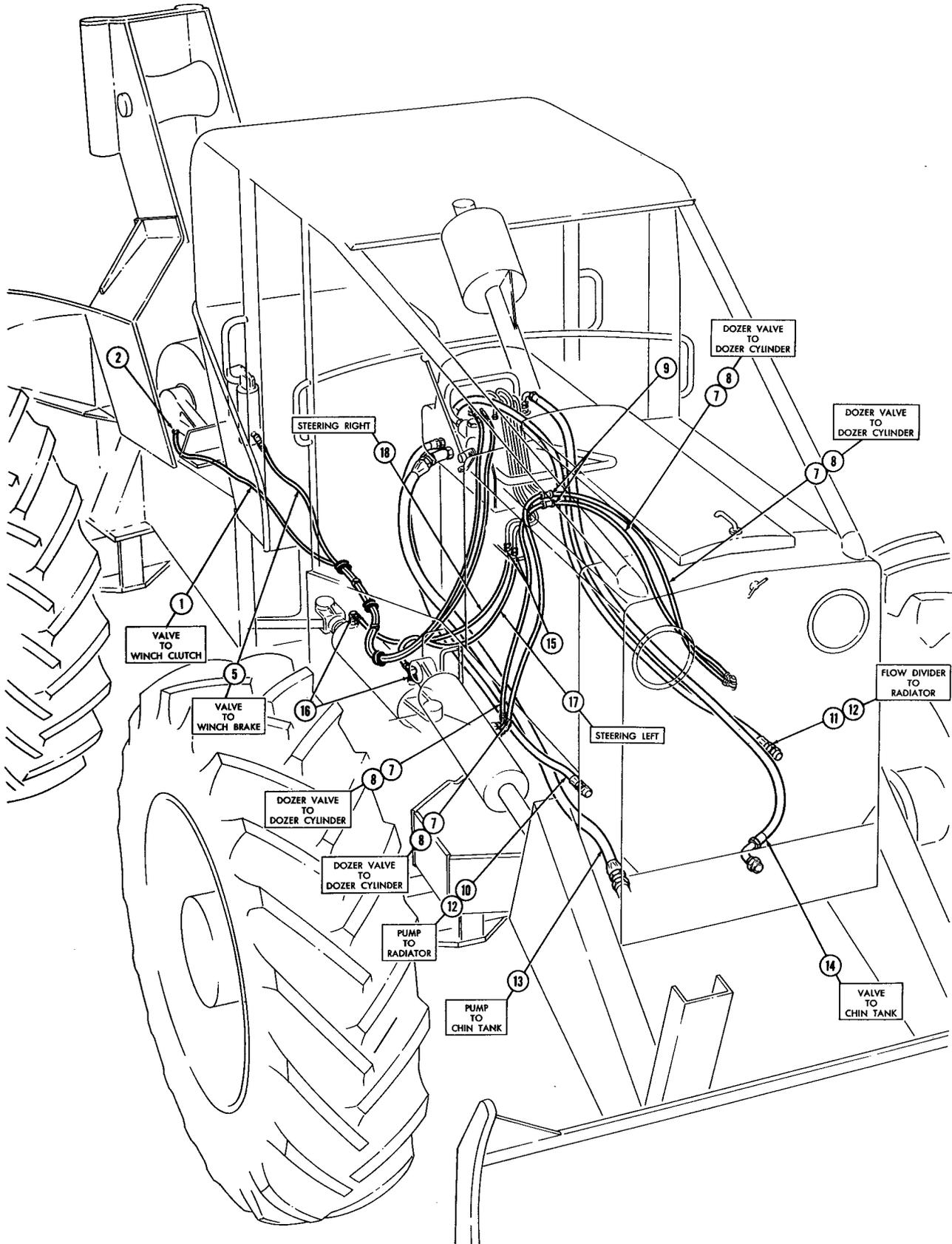


Fig. 1-D Hoses and Associated Parts - Model 330



HOSES AND ASSOCIATED PARTS - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	103162	Hose, Valve to Winch Clutch	1
2	100588	Swivel Connector	1
3			
4			
5	103163	Hose, Valve to Winch Brake	1
6			
7	103150	Hose, Tee to Dozer Cylinder	4
8	103286	Connector	4
9	102923	Tee	2
10	103533	Hose, Cooler to Pump	1
11	103534	Hose, Flow Divider to Cooler	1
12	101311	Swivel Connector	2
13	103148	Hose, Pump to Chin Tank	1
14	103149	Hose, Valve to Chin Tank	1
15	103284	Bulkhead Union	2
16	103297	Swivel Elbow	2
17	103152	Hose Steer Left	1
18	103153	Hose Steer Right	1

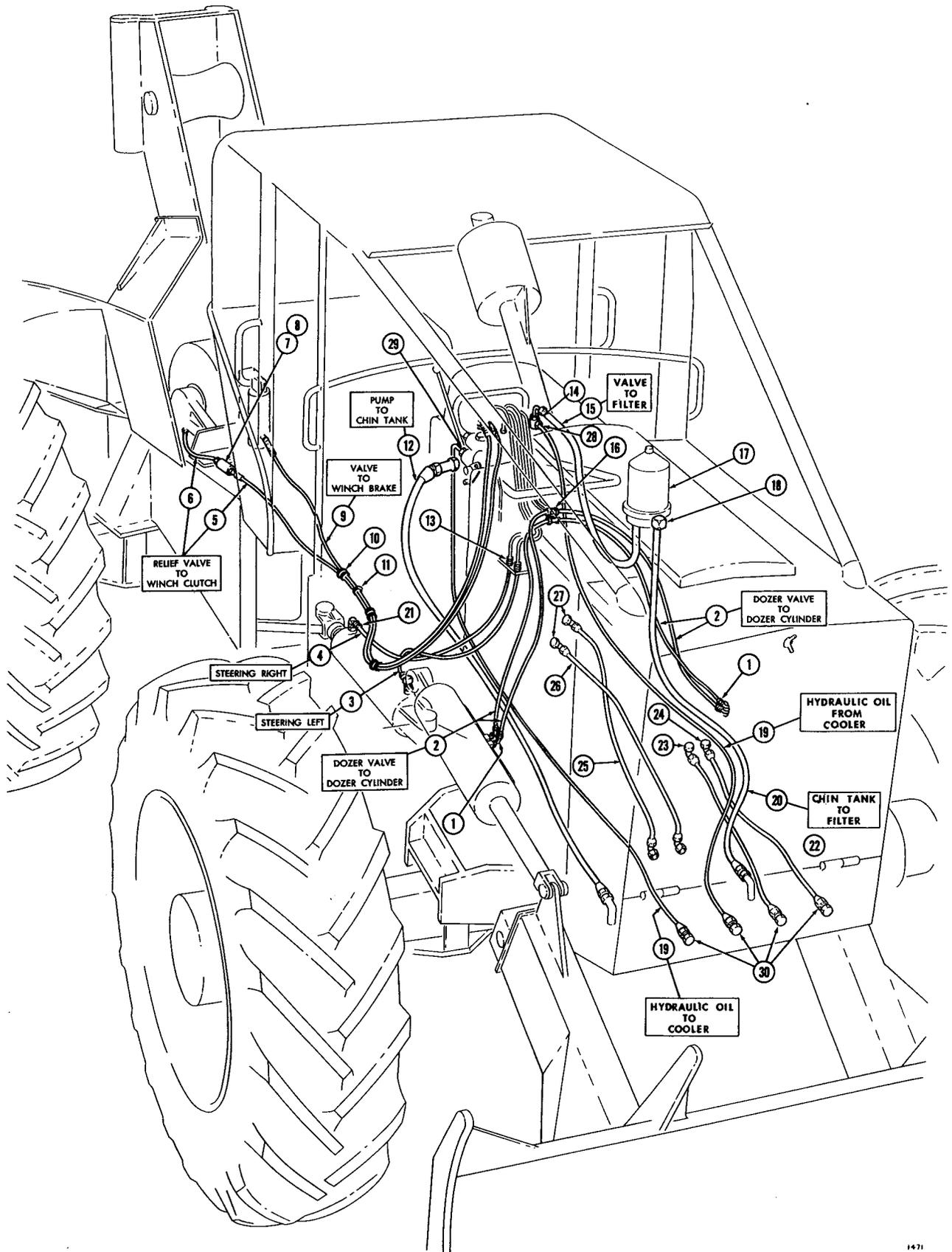


Fig. 2-D Hoses and Associated Parts - Model 360

HOSES AND ASSOCIATED PARTS - MODEL 360			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	103286	Connector	4
2	104112	Hose Assembly Valve to Dozer	4
3	103157	Hose Assembly Steer Left	1
4	103153	Hose Assembly Steer Right	1
5	103162	Hose Assembly Releif Valve to Winch Clutch	1
6	103310	Hose Assembly Relief Valve to Winch Clutch	1
7	100588	Swivel Connector	1
8	100568	Pipe Coupling	1
9	103163	Hose Assembly Valve to Winch Brake	1
10	202583	Hose Protector Assembly	3
11	100545	Hose Clamp	1
12	103148	Hose Assembly Pump to Chin Tank	1
13	103284	Blukhead Union	2
14	103996	Tee	1
15	104339	Hose Assembly Valve to Filter	1
16	102923	Tee	2
17		Filter (See Item 49 Page G-19)	1
18	102930	Elbow 90°	1
19	104337	Hose Assembly Hydraulic Oil from Cooler	2
20	104340	Hose Assembly Tank to Filter	2
21	103297	Swivel Elbow	2

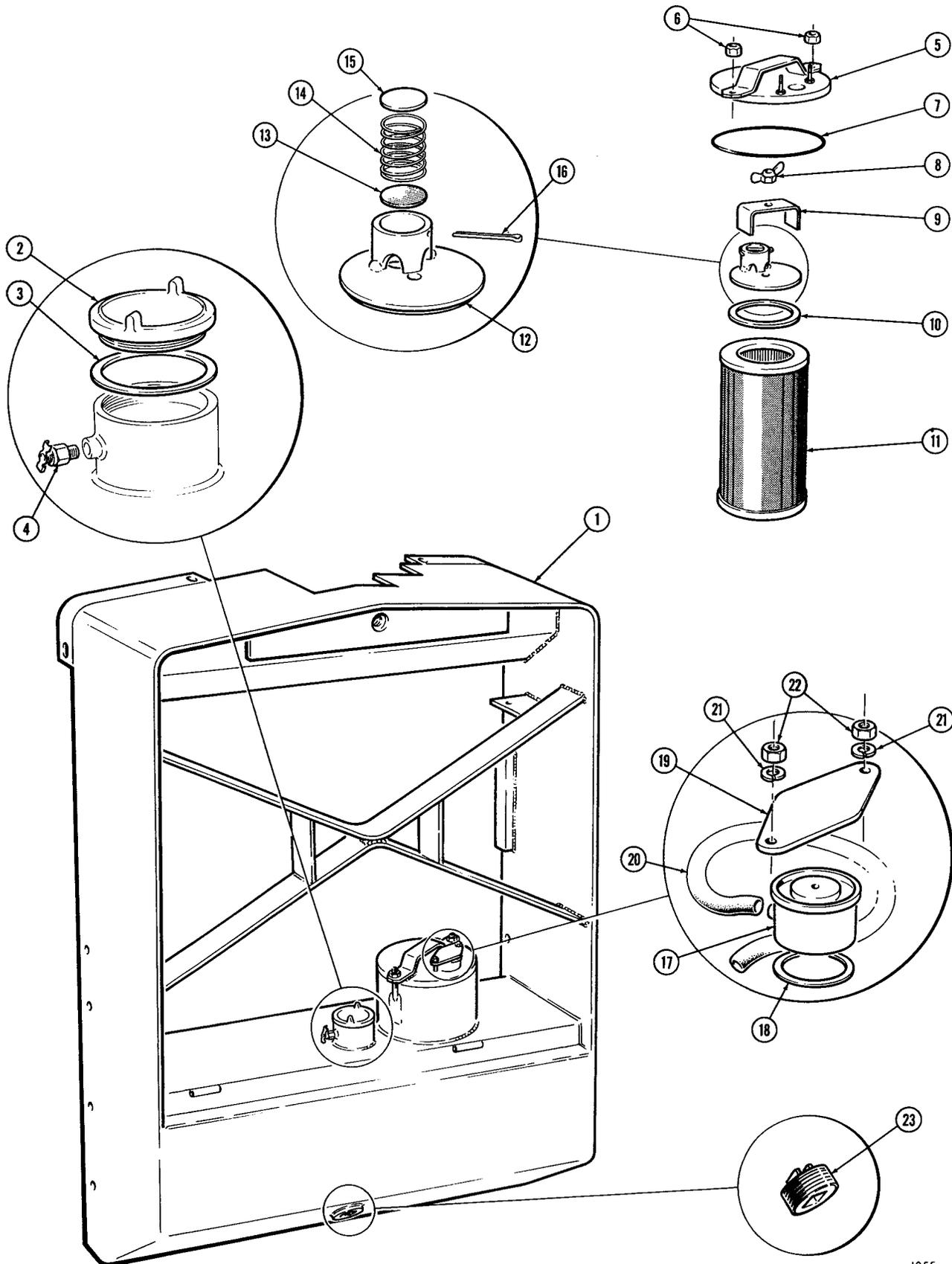


HOSES AND ASSOCIATED PARTS - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
22	102878	Hose Assembly Engine to Cooler	2
23	101402	Elbow 90°	1
24	103477	Elbow 45°	1
25	104341	Hose Assembly Transmission to Radiator	1
26	103570	Hose Assembly Radiator to Transmission	1
27	102896	Elbow 90°	2
28	102893	Reducer	1
29	104483	Swivel Elbow	1
30	100746	Connector	4



HYDRAULIC CHIN TANK ASSEMBLY -
TIMBERJACK MODEL 330



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Fig. 3-D Hydraulic Chin Tank Assembly - Model 330



HYDRAULIC CHIN TANK ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	501647	Chin Tank Assembly	1
2	204208	Cap	1
3	101755	Gasket	1
4	101045	Drain Cock	1
5	500199	Cover Assembly	1
6	100616	Locknut 1/2 - 13 UNC	5
7	101678	"O" Ring	1
8	101723	Wing Locknut	1
9	205810	Hold-Down Filter	1
10	101631	Gasket	1
11	205882	Hydraulic Oil Filter Assembly	1
12	205812	Filter Retaining Ring Assembly	1
13	101633	Fibre Disc	1
14	101675	Spring	1
15	101683	Steel Disc	1
16	101681	Cotter Pin	1
17	209210	Air Relief Valve Assembly	1
18	101631	Gasket	1
19	500200	Hold-Down, Air Vent	1
20	209211	Tube	1
21	100073	Lockwasher 5/16	2



HYDRAULIC CHIN TANK ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
22	102088	Nut 5/16-18 UNC	2
23	101661	Magnetic Plug	1



HYDRAULIC OIL TANK ASSEMBLY -
TIMBERJACK MODEL 360

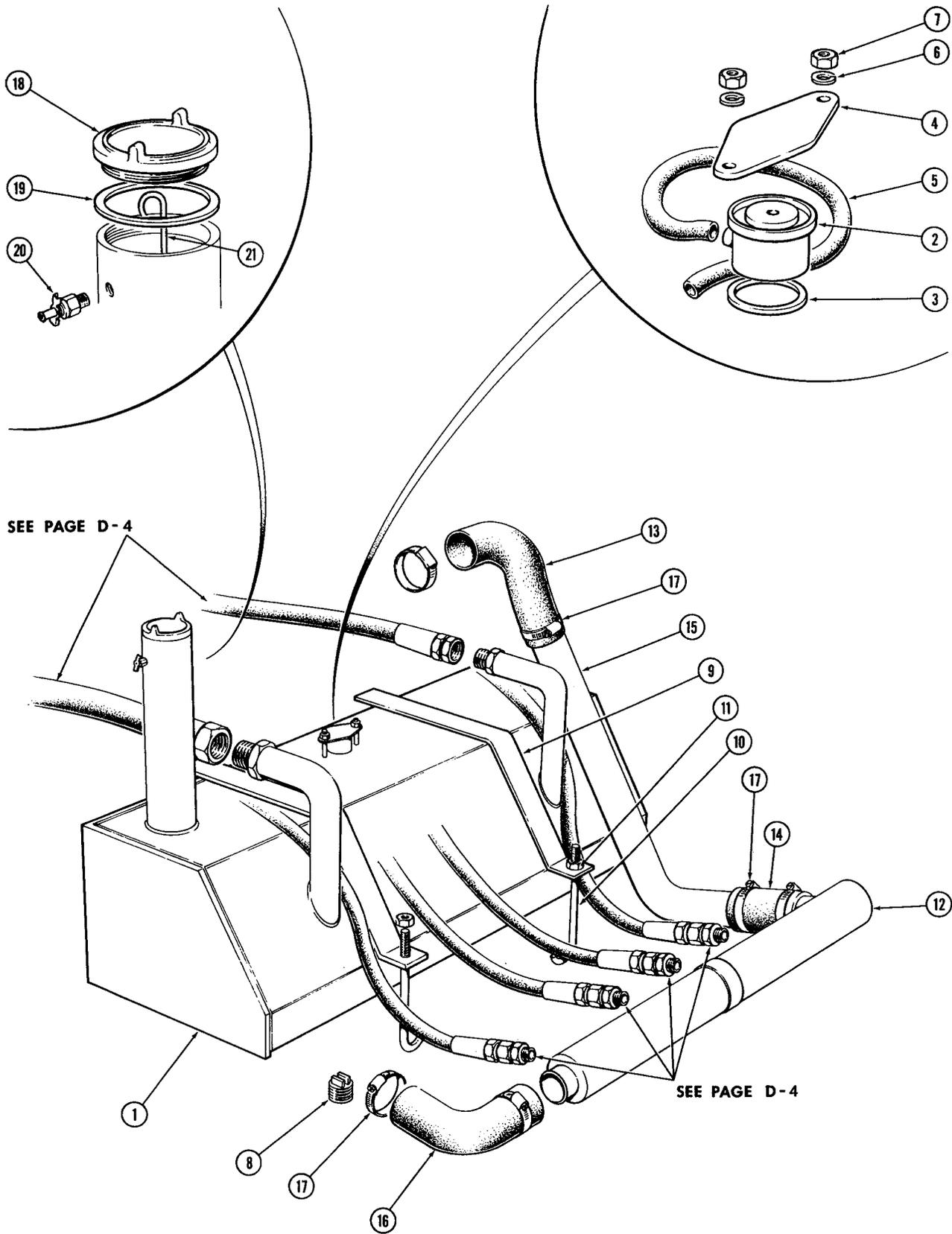


Fig. 4-D Hydraulic Oil Tank Assembly - Model 360



HYDRAULIC OIL TANK - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	501566	Hydraulic Oil Tank	1
2	209210	Air Relief Valve Assembly	1
3	101677	Gasket	1
4	500200	Hold Down, Air Vent	1
5	500674	Tube	2
6	100073	Lockwasher 5/16	2
7	102088	Nut 5/16 - 18 UNC	2
8	101661	Magnetic Plug	1
9	501546	Strap, Hold Down	2
10	501545	Hook Bolts	2
11	100060	Locknut 1/2 - 13 UNC	2
12	104333	Oil Cooler	1
13	103869	Hose, Multi-Bend	1
14	501590	Hose	1
15	501589	Tube	1
16	501564	Hose Elbow	1
17	100059	Hose, Clamp	6
18	204208	Filler Cap	1
19	101755	Gasket	1
20	104332	Pressure Relief Valve	1
21	501765	Dipstick	1

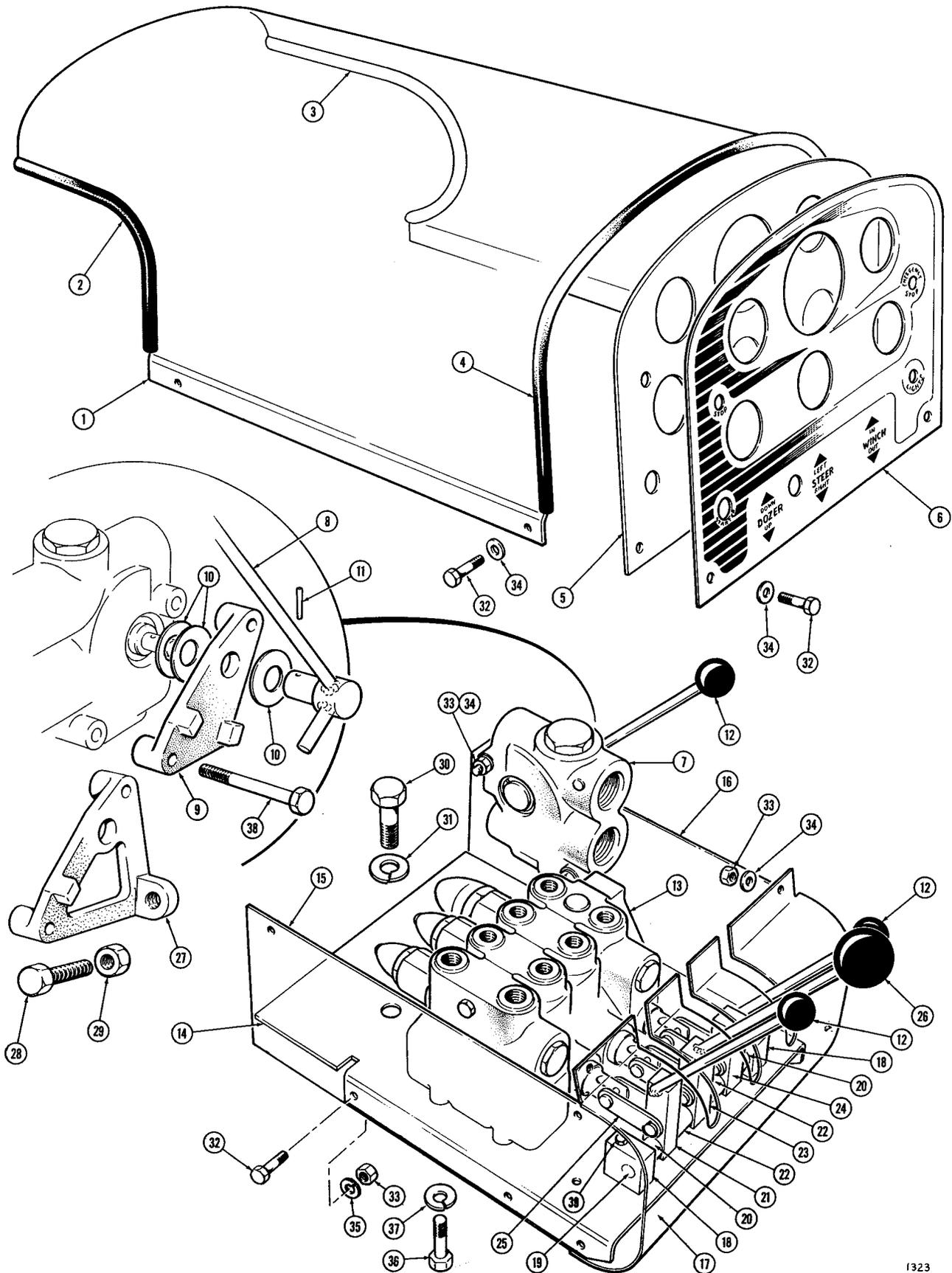


Fig. 4-D Valve and Console Assembly



VALVE AND CONSOLE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500530	Hood	1
2	500825	Rubber	1
3	500827	Rubber	1
4	500828	Rubber	1
5	500077	Control Panel	1
6	500658	Decal	1
7		Flow Divider Assembly (See Page D-24)	1
8	500684	Lever Assembly	1
9	500265	Quadrant - Model 330	1
10	103372	Washer	3
11	103441	Pin	1
12	100548	Knob	3
13	500534	Valve Assembly	1
14	500897	Mounting Plate	1
15	500057	Side Plate	1
16	500058	Side Plate	1
17	500056	Front Plate	1
18	500380	Pillow Block	2
19	500383	Pin	1
20	500381	Spacer	2
21	500618	Control Handle, Dozer	1



VALVE AND CONSOLE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
22	500382	Spacer	2
23	500617	Control Handle, Steer	1
24	500619	Control Handle, Winch	1
25	103103	Connecting Link Assembly (Includes Pins)	3
26	103290	Knob	1
27	500894	Quadrant - Model 360	1
28	100254	Bolt 1/2-13 UNC x 2	1
29	102091	Nut 1/2 - 13 UNC	1
30	100041	Bolt 3/4 NC x 1 1/4	2
31	100042	Lockwasher 3/4	2
32	100221	Bolt 3/8 - 16 UNC x 1	10
33	102081	Nut 3/8 - 16 UNC	10
34	100064	Washer 3/8	10
35	100026	Lockwasher 3/8	4
36	100240	Bolt 1/2 - 13 UNC x 1	3
37	100024	Lockwasher 1/2	3
38	103426	Bolt 3/8 - 16 UNC x 3 3/4	2
39	100226	Bolt 3/8 - 16 UNC x 2	2
	104079	Decal Kit	1



CONSOLE - HYDRAULIC TUBING ASSEMBLY-
TIMBERJACK MODEL 330

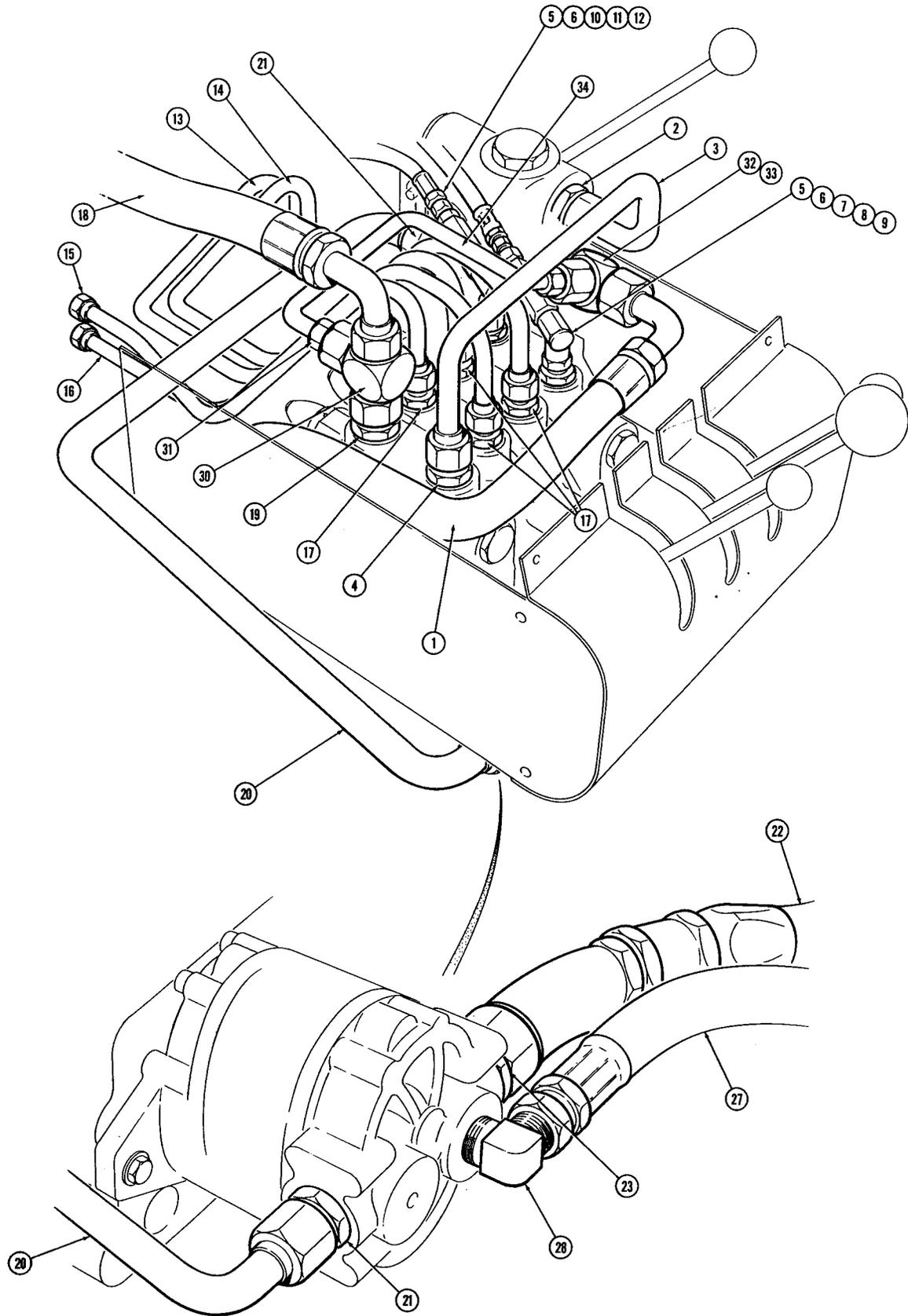


Fig. 6-D Console - Hydraulic Tubing Assembly - Model 330



CONSOLE - HYDRAULIC TUBING ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	103534	Hose - Flow Divider to Cooler	1
2	102700	Male Connector	2
3	103160	Tube - Control Flow to Valve	1
4	101158	Male Connector	1
5	102684	Reducer	2
6	103283	Elbow	2
7	203071	Flow Valve	1
8	101196	Poppet	1
9	100588	Swivel Adapter	1
10	205694	Flow Valve	1
11	101163	Poppet	1
12	101642	Swivel Adapter	1
13	103156	Tube - Valve to Steer Bulkhead	1
14	103157	Tube - Valve to Steer Bulkhead	1
15	103155	Tube - Valve to Dozer Tee	1
16	103154	Tube - Valve to Dozer Tee	1
17	101555	Male Connector	4
18	103149	Return Hose	1
19	101164	Male Connector	1
20	103158	Tube - Pump to Flow Divider	1
21	101155	Male Connector	1

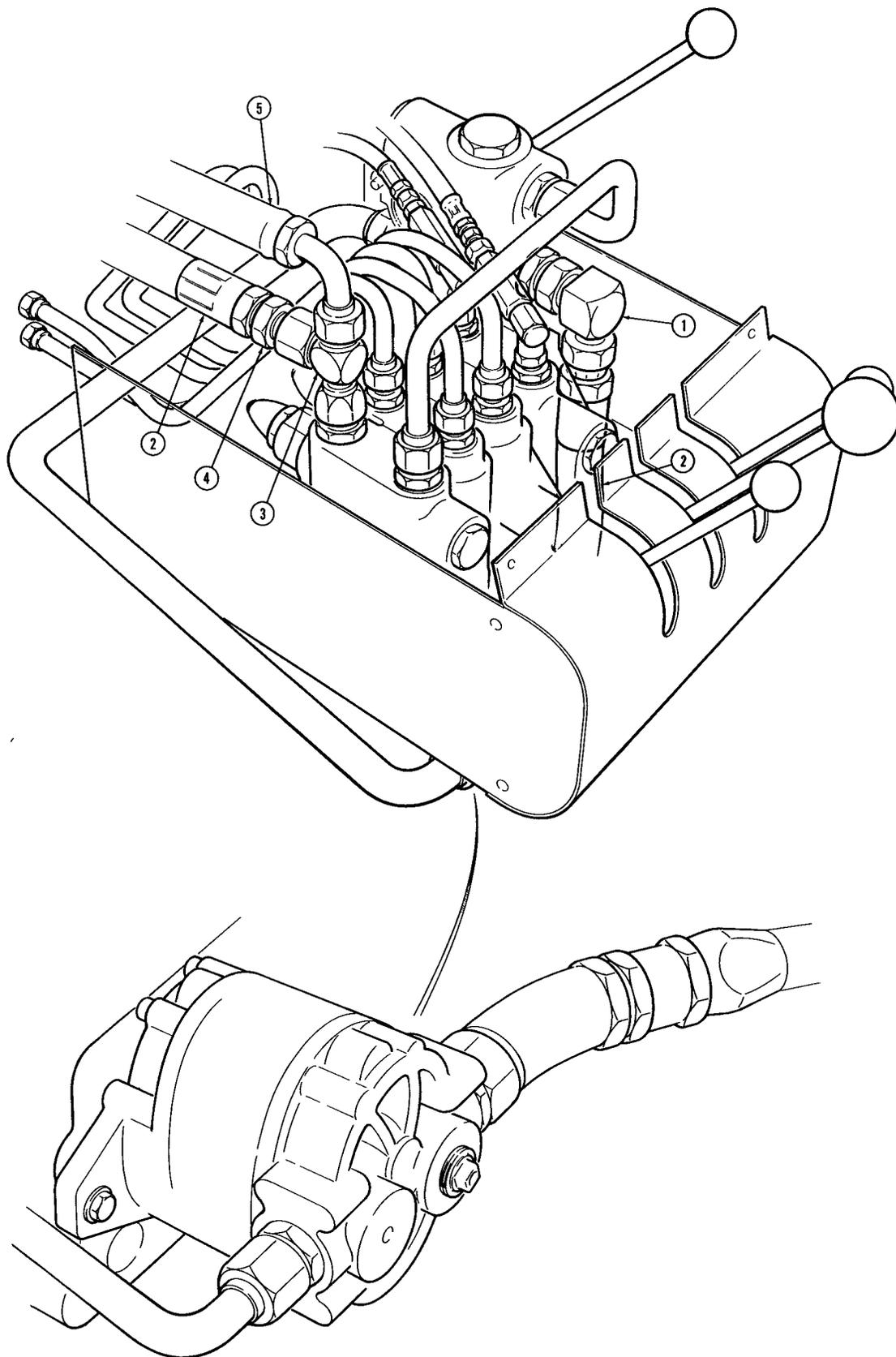


CONSOLE - HYDRAULIC TUBING ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
22	103148	Hose - Pump to Chin Tank	1
23	103478	Connector	1
24	103311	Hose - Pump to Relief Valve	1
25	100588	Swivel Connector	1
26	500587	Elbow	1
27	103533	Hose - Pump to Chin Tank	1
28	100745	Elbow	1
30	103996	Tee	1
31	103994	Reducer	1
32	501119	Rework Tee	1
33	100700	Male Connector	1
34	103993	Tube - Flow Divider To Valve	1



CONSOLE - HYDRAULIC TUBING ASSEMBLY -
TIMBERJACK MODEL 360



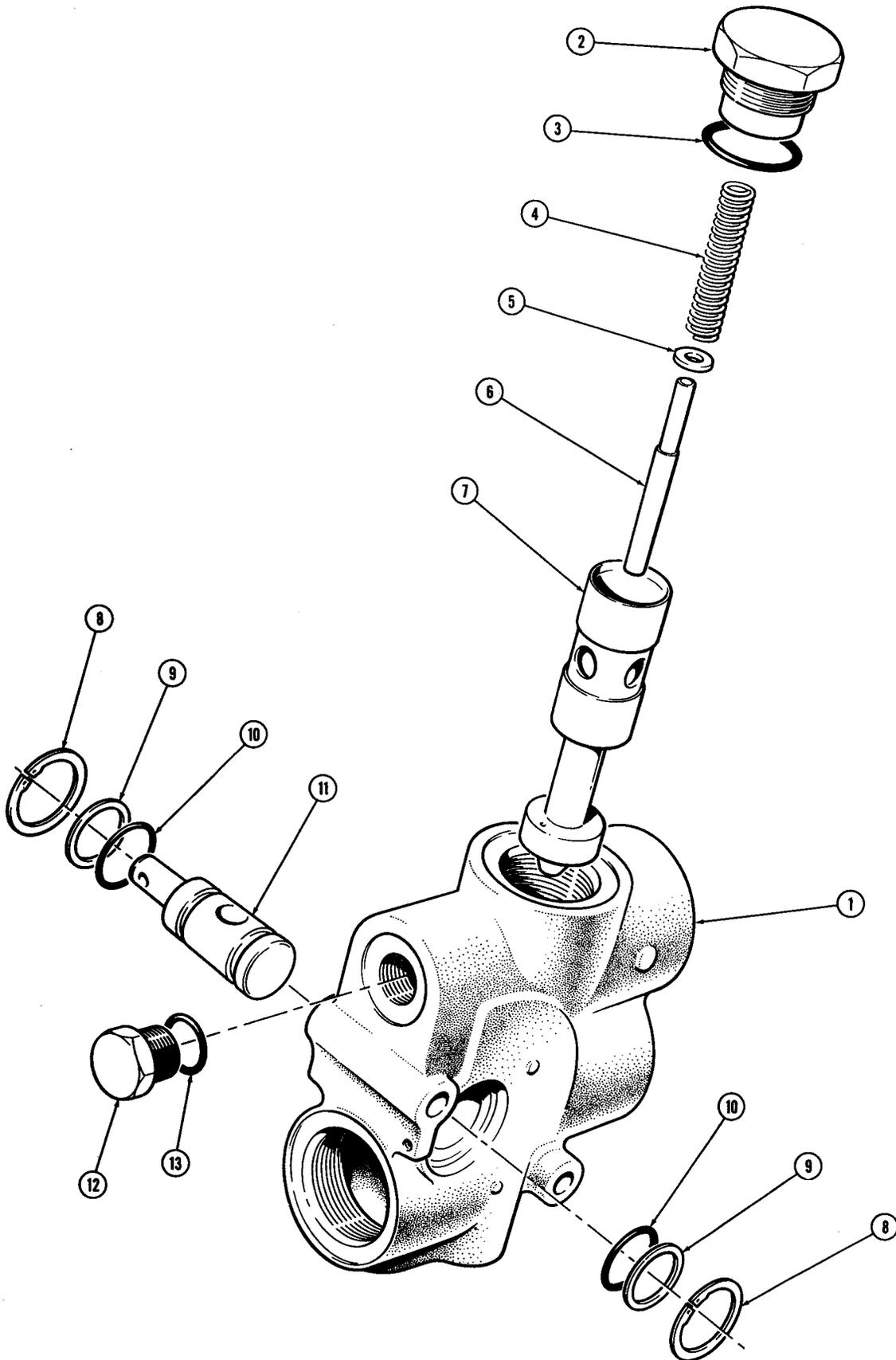
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Fig. 7-D Console - Hydraulic Tubing Assembly - Model 360



CONSOLE - HYDRAULIC TUBING ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	104483	Swivel Connector	1
2	104337	Hose	2
3	103996	Tee	1
4	102931	Reducer	1
5	104339	Hose	1
		For All Other Items See Page D-18	



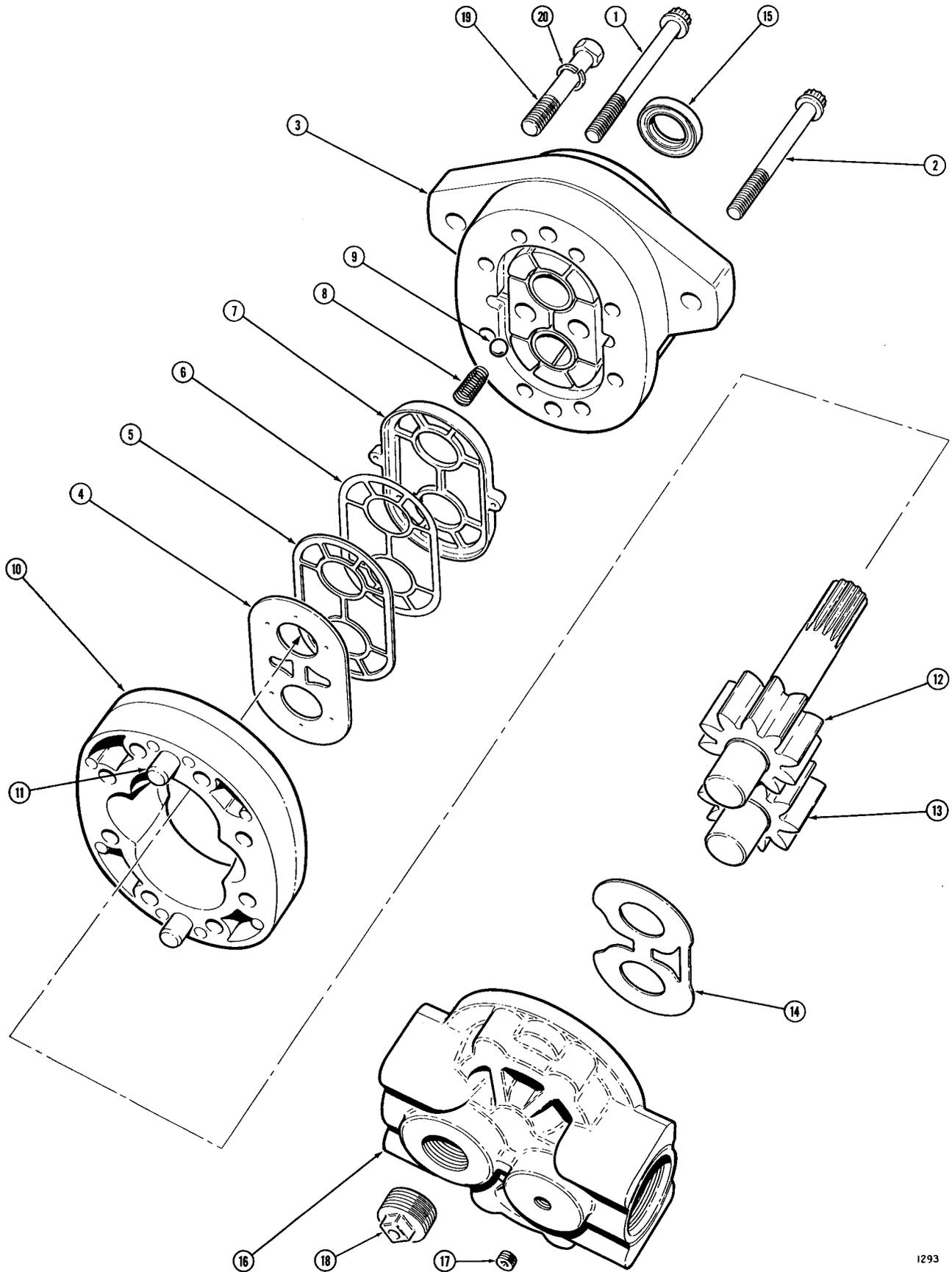
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Fig. 8-D Flow Divider Assembly



FLOW DIVIDER ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
	500533	Flow Divider Assembly Complete	
1	404321	Body	1
2	404322	Plug End	1
3	404323	Seal	1
4	404324	Spring	1
5	404325	Washer	1
6	404326	Rod Retaining	1
7	404327	Piston	1
8	404328	Ring Snap	2
9	404329	Ring Backup	2
10	404330	Seal	2
11	404911	Valve -Control	1
12	404332	Plug	1
13	404333	Seal	1



1293

Fig. 9-D Hydraulic Gear Pump Assembly



HYDRAULIC GEAR PUMP ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
	103721	Gear Pump Assembly Complete	
1	403749	Cap Screw	4
2	403748	Cap Screw	4
3	403736	Front Plate Assembly	1
4	403735	Diaphragm	1
5	403739	Back-up Gasket	1
6	403734	Protector Gasket	1
7	403733	Diaphragm Seal	1
8	403732	Spring Check	2
9	403744	Steel Ball	2
10	403741	Body	1
11	403745	Dowel Pin	2
12	403743	Drive Gear Assembly	1
13	403742	Idler Gear Assembly	1
14	403738	Thrust Plate	1
15	403737	Oil Seal	1
16	403740	Back Plate Assembly	1
17	100689	Plug - Model 330	1
18	100081	Plug - Model 360	1
19	100050	Bolt 1/2 - 13 UNC x 1 1/2	2
20	100024	Lockwasher 1/2	2

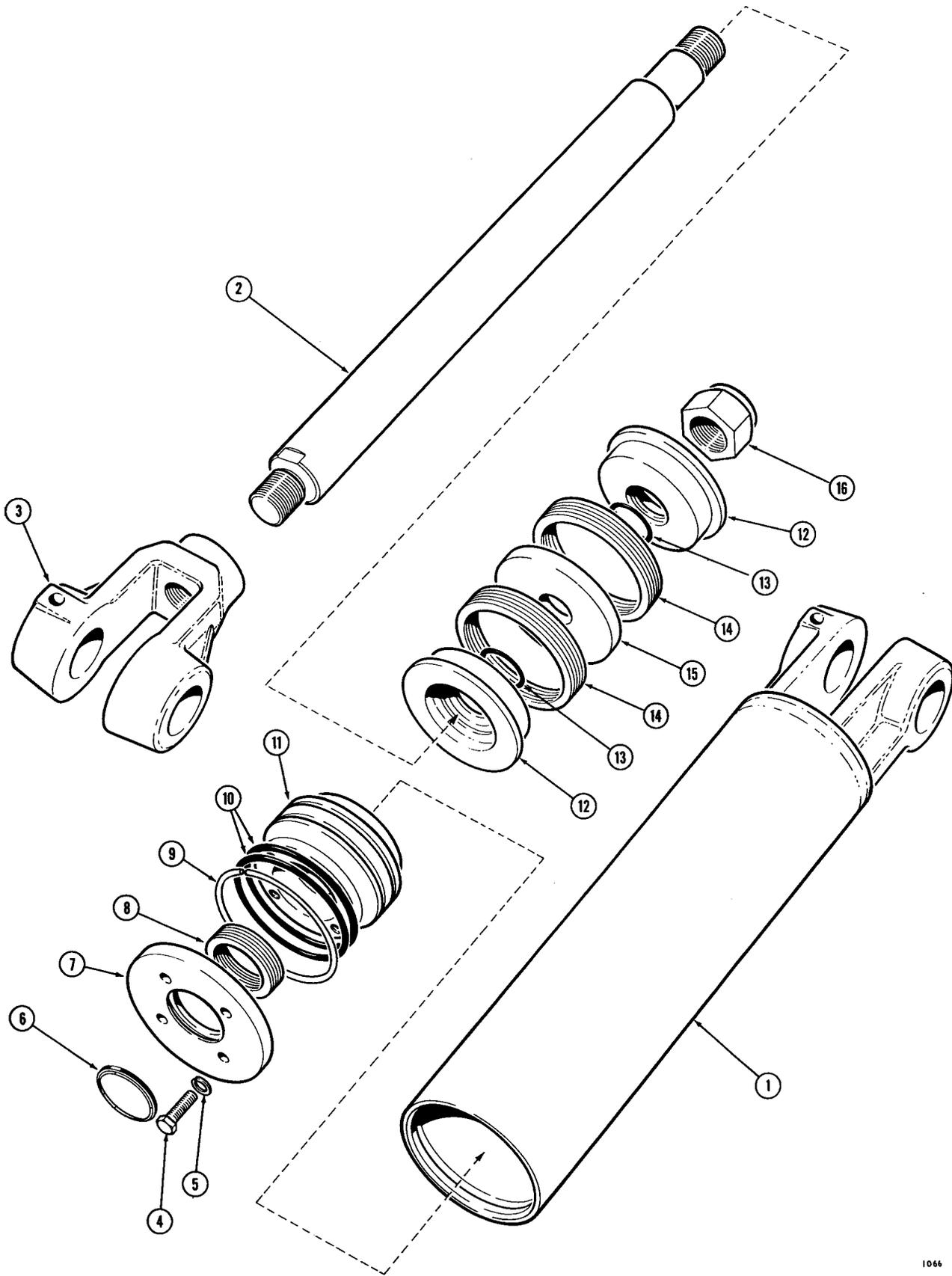


Fig. 10-D Dozer Cylinder Assembly



DOZER CYLINDER ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
	501364	Cylinder Assembly - Dozer L.H.	1
	501365	Cylinder Assembly - Dozer R.H.	1
1	501173	Cylinder Housing Assembly L. H.	1
	501174	Cylinder Housing Assembly R. H.	1
2	204165	Cylinder Rod	1
3	210216	Clevis	1
4	100260	Bolt 7/16 - 14 UNC x 1	4
5	100053	Lockwasher	4
6	100013	Scraper	1
7	204265	Cover Plate	1
8	100010	'V' Packing	1
9	200059	Snap Ring	1
10	100007	'O' Ring	2
11	204083	Gland	1
12	204084	Piston	2
13	100706	'O' Ring	2
14	100009	'V' Packing	2
15	204093	Ring, Bearing	1
16	104080	Locknut 1 3/8 - 12 UNF	1

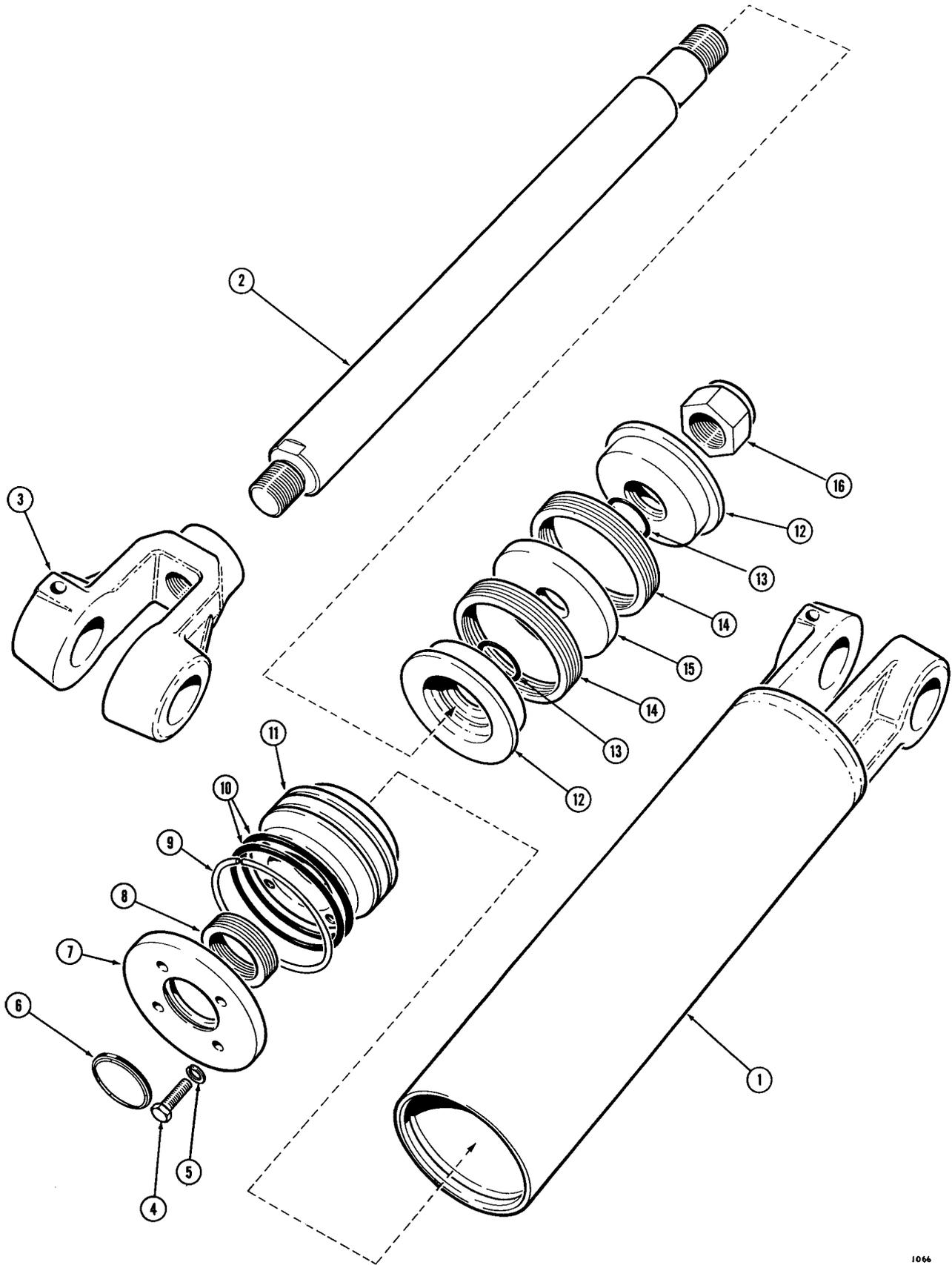
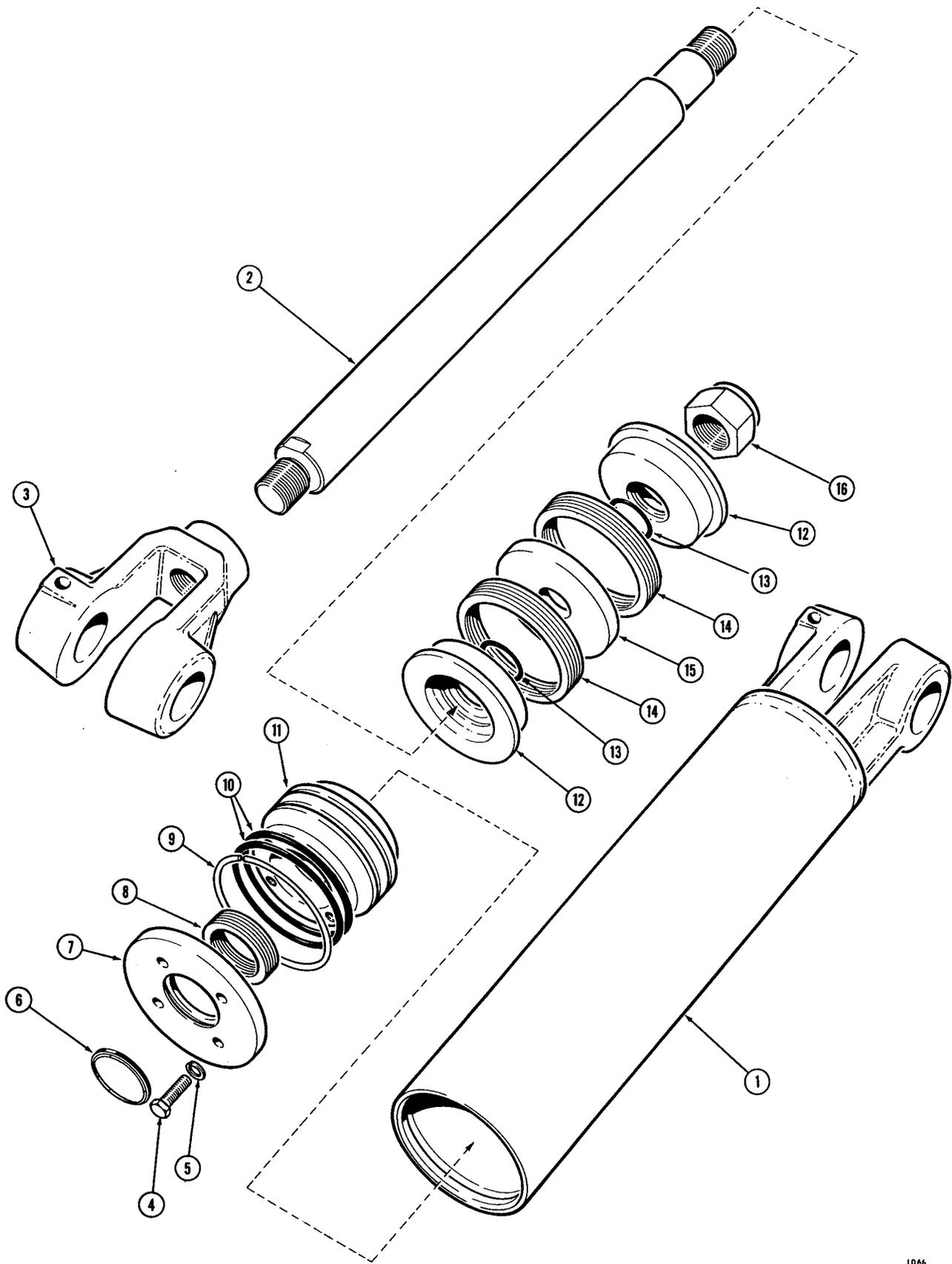


Fig. 11-D Steering Cylinder Assembly - Model 330



STEERING CYLINDER ASSEMBLY - MODEL 330			
ITEM	PART No.	DESCRIPTION	QUANTITY
	500241	Cylinder Assembly - Steering <i>4 Div</i>	
1	500242	Cylinder Housing Assembly	1
2	204165	Cylinder Rod	1
3	204168	Clevis	1
4	100260	Capscrew	4
5	100053	Lockwasher	4
6	100013	Scraper	1
7	204265	Cover Plate	1
8	100010	"V" Packing	1
9	200059	Snap Ring	1
10	100007	"O" Ring	2
11	204083	Gland	1
12	204084	Piston	2
13	100706	"O" Ring	2
14	100009	"V" Packing	2
15	204093	Ring, Bearing	1
16	101442	Locknut	1
	450096	Seal Repair Kit	1 per cyl



1066

Fig. 12-D Steering Cylinder Assembly - Model 360



STEERING CYLINDER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
	500891	Cylinder Assembly - Steering <i>4 1/2" DIA.</i>	
1	500884	Cylinder Housing Assembly	1
2	204165	Cylinder Rod	1
3	204168	Clevis	1
4	100260	Bolt - 7/16 14 UNC x 1 Gr. 5	4
5	100053	Lockwasher - 7/16	4
6	100013	Scraper	1
7	500888	Cover Plate	1
8	100010	'V' Packing	1
9	103737	Snap Ring	1
10	103735	'O' Ring	2
11	500889	Gland	1
12	500887	Piston	2
13	100706	'O' Ring	2
14	103736	'V' Packing	2
15	500890	Ring, Bearing	1
16	104080	Locknut - 1 3/8 - 12 UNF	1
	450282	Seal Repair Kit	1 per cyl.

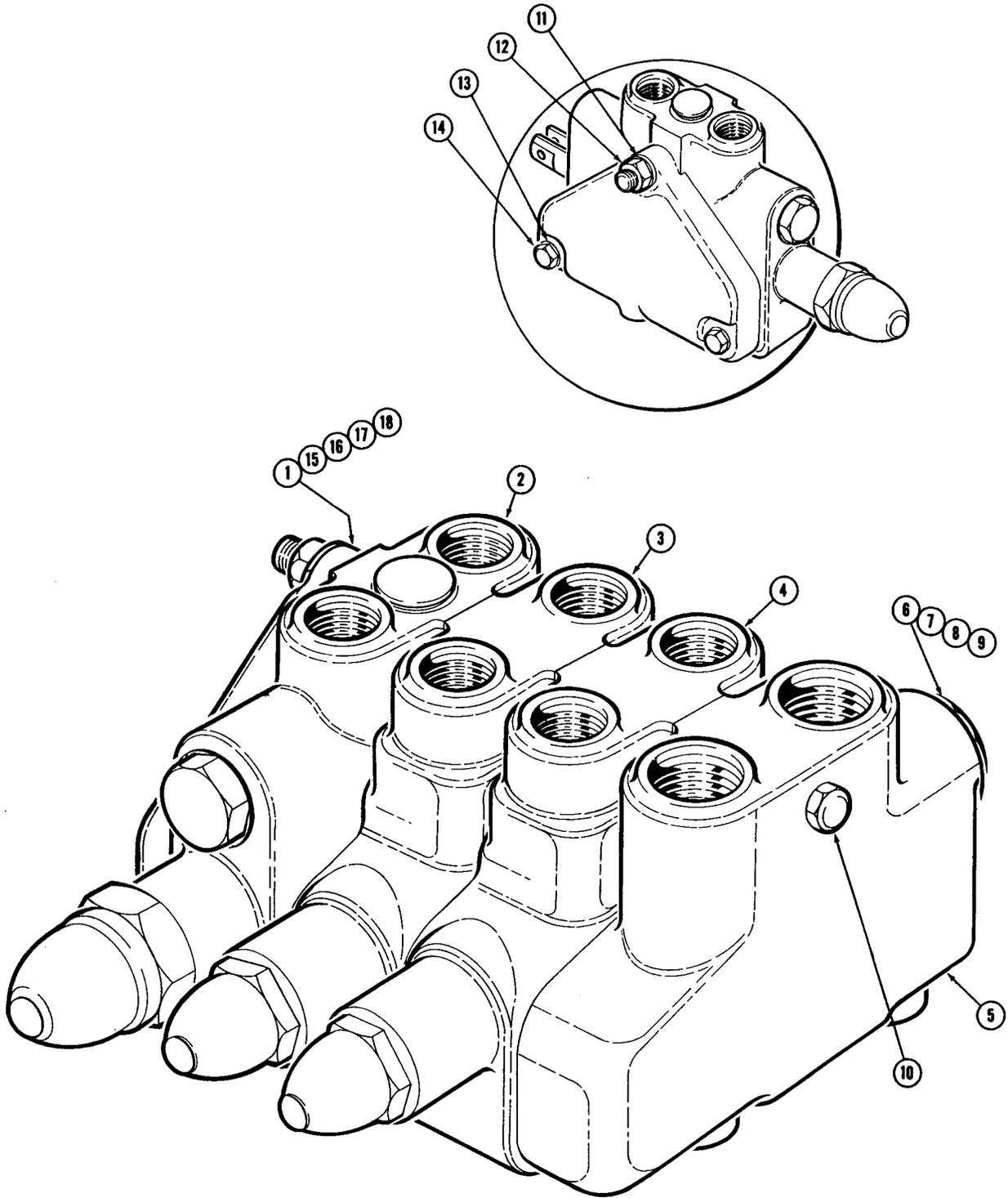
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TOWNE**

TIMBERJACK
MACHINES LIMITED





HYDRAULIC VALVE ASSEMBLIES





CONTROL VALVE ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
	101901	Control Valve Assembly Complete	
1	402904	End Plate	1
2	402906	Valve Section, Winch	1
3	402907	Valve Section, Steering	1
4	402908	Valve Section, Dozer	1
5	402905	End Plate	1
6	403238	Relief Valve	1
7	402902	"O" Ring	1
8	402937	Back-up Ring	1
9	402933	"O" Ring	1
10	402903	Bolt, Special	1
11	402935	Lockwasher	1
12	402934	Nut	1
13	402936	Dyna - Seal Washer	2
14	402938	Tie Bolt	2
15	402929	"O" Ring	2
16	402931	"O" Ring	2
17	402930	"O" Ring	1
18	402932	"O" Ring	1

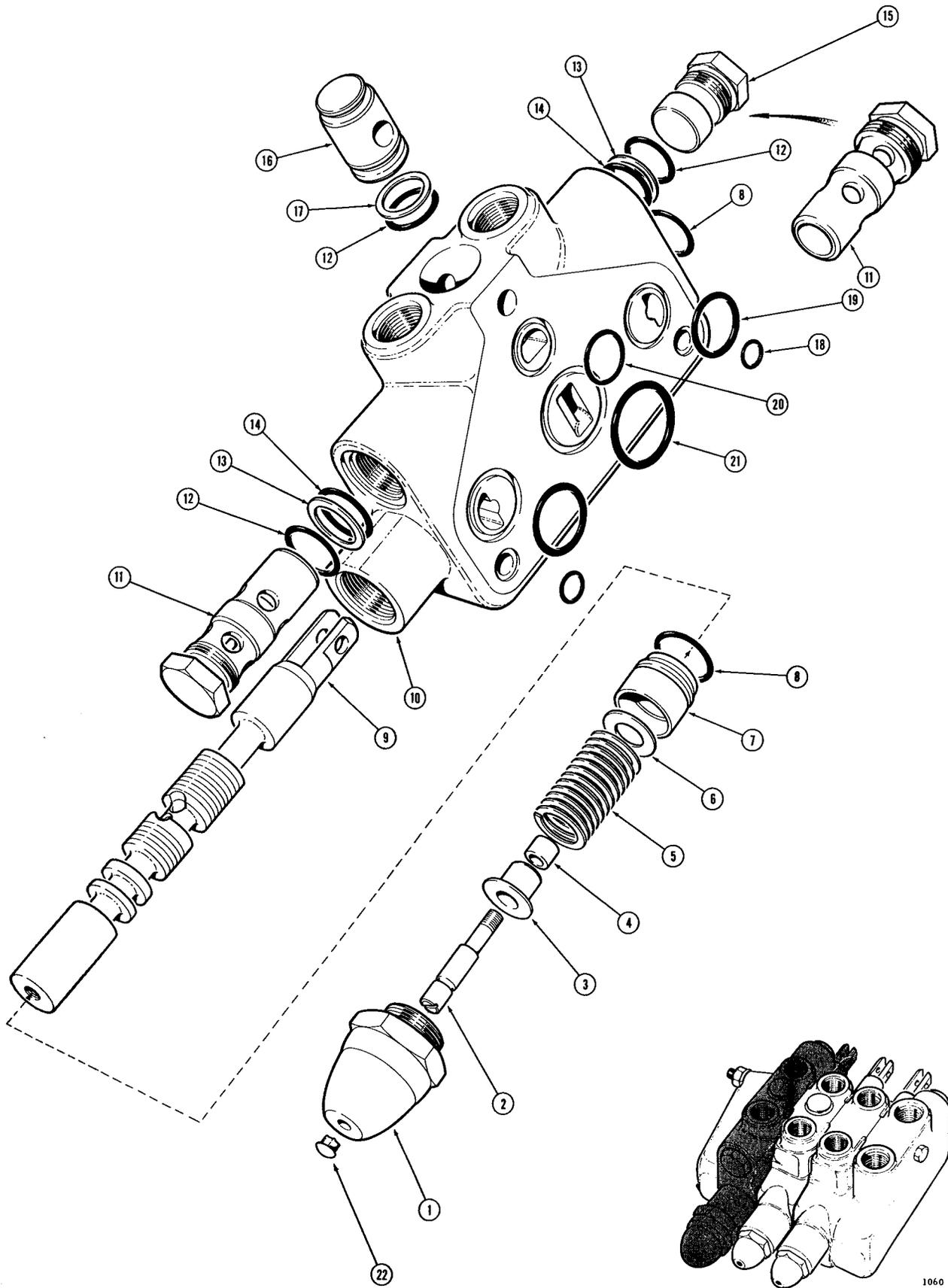


CONTROL VALVE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
		Seal Repair Kits	
	402970	Kit For 402906 (Winch Section)	
	402964	Kit For 402908 (Dozer, and Steering Sections)	
	402965	Between Section Seal Repair Kit	
	402966	Port Plate Seal Repair Kit	
	402968	Major Seal Repair Kit	



CONTROL VALVE WINCH SECTION



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CONTROL VALVE - WINCH SECTION

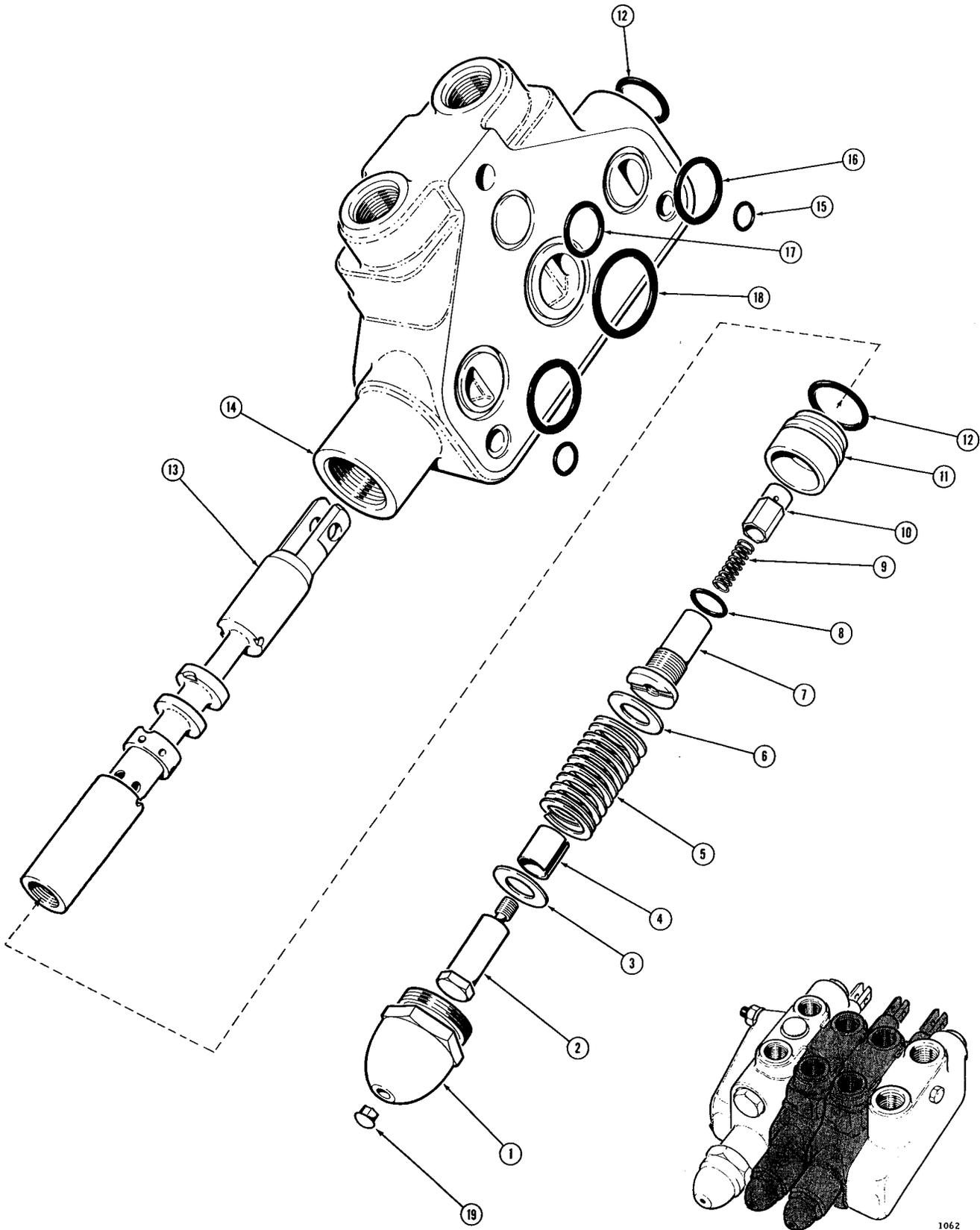
ITEM	PART No.	DESCRIPTION	QUANTITY
	402906	Control Valve Section Complete (Does Not Include Items 18, 19, 20, and 21)	
1	402948	Cap Assembly	1
2	402939	Screw, Spool Spring	1
3	402949	Washer, Spool Spring	1
4	402943	Sleeve, Spool	1
5	402947	Spring, Spool Ctr.	1
6	402940	Washer	1
7	402944	Bushing, Body	1
8	402941	"O" Ring	2
9		Spool	} Available only in a complete valve assembly
10		Valve Body	
11	402909	Relief Valve Assembly (450 psi)	1
	402911	Relief Valve Assembly (550 psi)	1
12	402902	"O" Ring	3
13	402937	Back-Up Washer	2
14	402933	"O" Ring	2
	402900	Plug Assembly (Includes Item 12)	1
15	402901	Plug	1
16	402969	Plug, Lift Check	1
17	402945	Back-Up Washer	1
18	402929	"O" Ring	2
19	402931	"O" Ring	2



CONTROL VALVE - WINCH SECTION			
ITEM	PART No.	DESCRIPTION	QUANTITY
20	402930	"O" Ring	1
21	402932	"O" Ring	1
22	403253	Nylon Breather	1



CONTROL VALVE DOZER AND STEERING SECTIONS





CONTROL VALVE - DOZER AND STEERING SECTION

ITEM	PART No.	DESCRIPTION	QUANTITY
	402908	Control Valve Section Complete (Does Not Include Items 15, 16, 17, and 18)	
1	402953	Cap Assembly	1
2	402957	Screw, Spool	1
3	402955	Washer	1
4	402958	Sleeve, Spool	1
5	402947	Spring, Spool Ctr.	1
6	402956	Washer	1
7	402959	Plug, Spool	1
8	402962	"O" Ring	1
9	402961	Spring, Lift Check	1
10	402960	Check, Lift	1
11	402944	Bushing, Body	1
12	402941	"O" Ring	2
13		Spool } Available only in a complete	1
14		Body } valve assembly	1
15	402929	"O" Ring	2
16	402931	"O" Ring	2
17	402930	"O" Ring	1
18	402932	"O" Ring	1
19	403253	Nylon Breather	1



SECTION—E
WIRING AND
ASSOCIATED
PARTS





WIRING AND ASSOCIATED PARTS -

TIMBERJACK MODEL 330

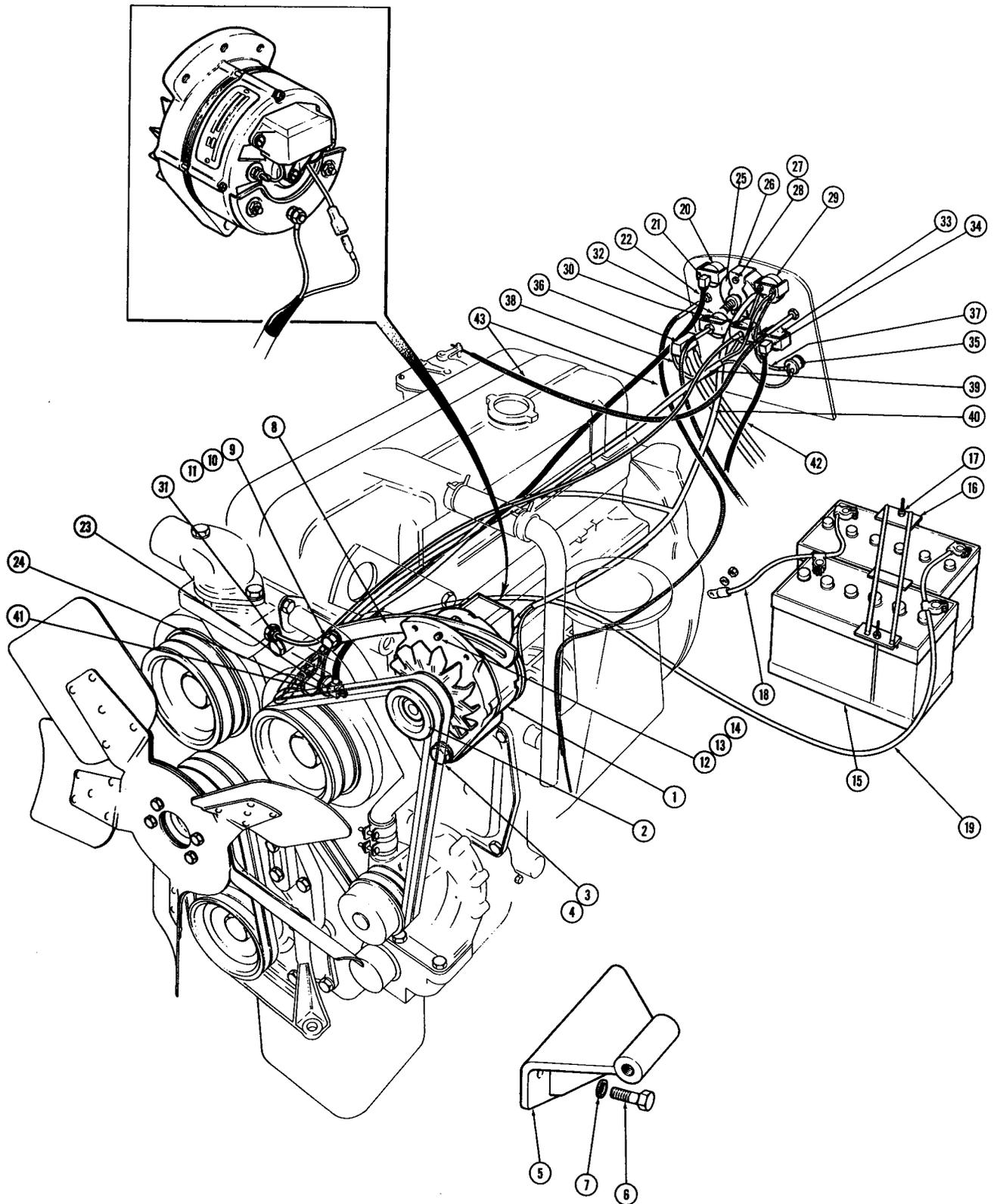


Fig. 1-E Wiring and Associated Parts - Timberjack Model 330



WIRING AND ASSOCIATED PARTS - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	103060	Alternator Regulator	1
2	101032	Vee Belt Set	1
3	100241	Bolt 1/2 - 13 UNC x 1 3/4	1
4	100077	Plain Washer 1/2	As Req'd
5	500541	Mounting Bracket	1
6	100221	Bolt 3/8 - 16 UNC x 3/4	3
7	100026	Lockwasher 3/8	3
8	103056	Adjusting Strap ✓	1
9	100222	Bolt 3/8 - 16 UNC x 1	1
10	100064	Plain Washer 3/8	1
11	100026	Lockwasher 3/8	1
12	101902	Bolt 5/16 - 18 UNC x 3/4	1
13	100434	Plain Washer 5/16	1
14	100073	Lockwasher 5/16	1
15	100451	Battery 16 ⁴	2
16	500570	Battery Hold-Down	1
17	102089	Locknut 3/8 - 16 UNC	2
18	103272	Battery Ground Cable (Negative)	1
19	103273	Battery Cable (Positive)	1
20	201711	Gauge - Engine Oil Pressure	1
21	100684	Elbow	1



WIRING AND ASSOCIATED PARTS - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
22	102822	Oil Line	1
23	101044	Tee	1
24	100613	Pressure Switch	1
25	102755	Tachometer Kit	1
26	102826	Strap	1
27	100493	Nut 10-32 UNF	2
28	100497	Lockwasher	2
29	200464	Gauge - Ammeter	1
30	103516	Gauge - Engine Water Temperature	1
31	101064	Adapter	1
32	102477	Gauge - Transmission Oil Temperature	1
33	102478	Gauge - Transmission Oil Pressure	1
34	100684	Elbow	1
35	100454	Switch - Starter Push	1
36	103094	Switch - Lighting	1
37	500301	Wire Assembly	1
38	500300	Wire Assembly	1
39	500304	Wire Assembly	1
40	500303	Wire Assembly	1
41	500302	Wire Assembly	1
42	104286	Hose Transmission Oil Pressure	1
43	104316	Stop Cable	2



WIRING AND ASSOCIATED PARTS -
TIMBERJACK MODEL 360

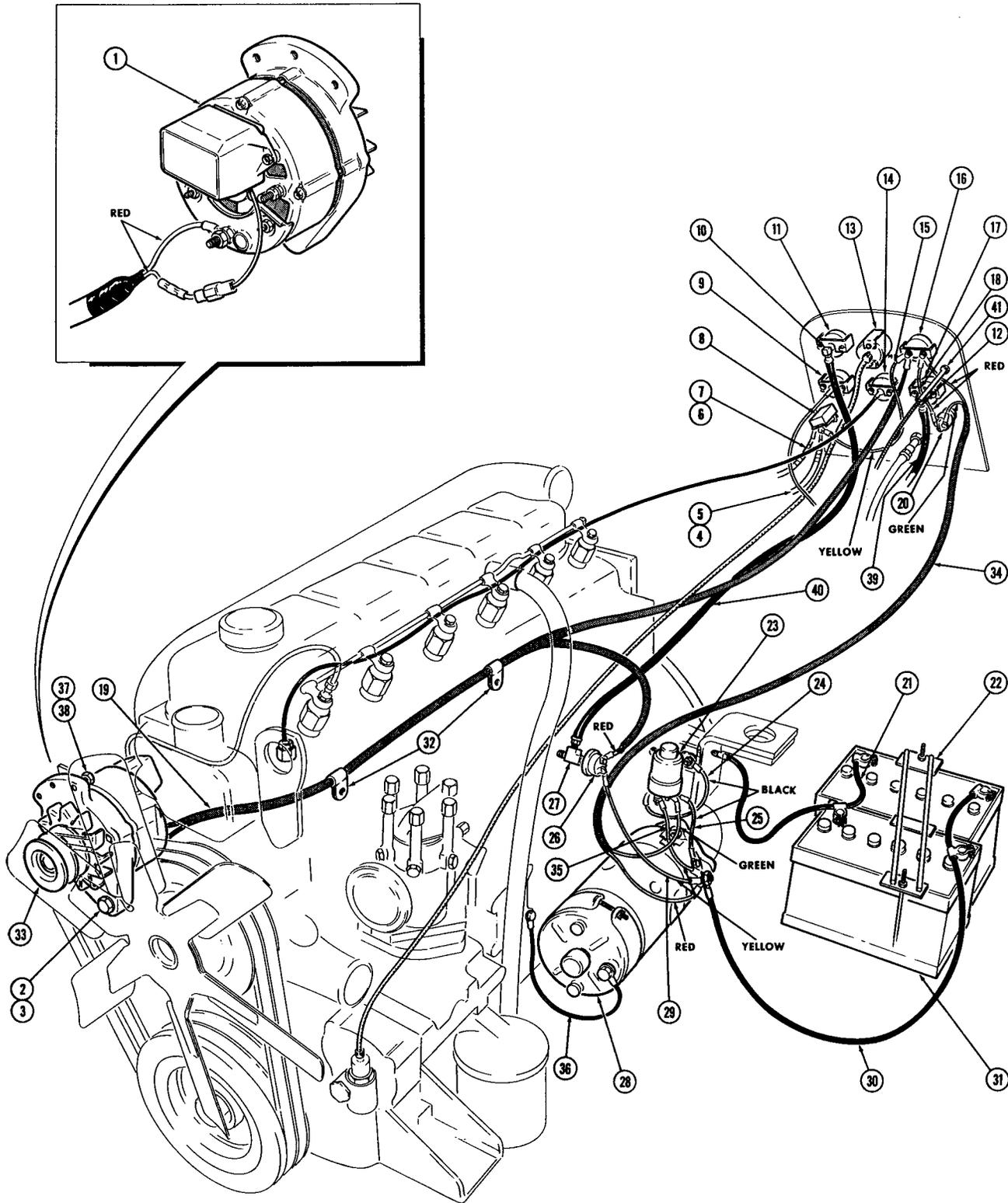


Fig. 2-E Wiring and Associated Parts - Timberjack Model 360



WIRING AND ASSOCIATED PARTS - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	103060	Alternator Regulator	1
2	100241	Bolt 1/2-13 UNC x 1 3/4	1
3	100024	Lockwasher 1/2	1
4	500305	Wire Assembly - to Front Lights	1
5	501022	Wire Assembly - Between Front Lights	1
6	500788	Wire Assembly - Rear Light (before Plug)	1
7	500306	Wire Assembly - Rear Light (after Plug)	1
8	103094	Light Switch	1
9	102477	Gauge - Transmission Oil Temperature	1
10	100684	Elbow	1
11	201711	Gauge - Engine Oil Pressure	1
12	104283	Elbow	1
13	103863	Tachometer	1
14	103516	Gauge - Engine Water Temperature	1
15	500300	Wire Assembly ammeter to Light Switch	1
16	200464	Ammeter	1
17	102478	Gauge Transmission Oil Presure	1
18	500301	Wire Assembly Ammeter to Starter Button	1
19	501010	Wiring Harness	1
20	100454	Switch-Starting Push	1
21	103272	Battery Ground Cable - Negative	1

WIRING AND ASSOCIATED PARTS- MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
22	500570	Battery Hold-Down	1
23		Solenoid (see T130 Engine Manual)	1
24	501464	Wire Assembly Solenoid Ground	1
25	501462	Wire Assembly Starter to Solenoid	1
26	100613	Pressure Switch	1
27	101044	Tee	1
28		Starter (See T 130 Engine Manual)	1
29	500302	Wire Assembly	1
30	103273	Battery Cable (Positive)	1
31	100451	Battery	2
32	101588	Clip	2
33		Vee Belt Set (See T 130 Engine Manual)	1
34	501460	Wiring Harness	1
35	501461	Wire Assembly	1
36	104387	Wire Assembly Ground	1
37	101902	Bolt 5/16 - 18 UNC x 3/4	1
38	100434	Plain Washer 5/16	1
39	104286	Hose Transmission Oil Pressure	1
40	<u>102822</u>	Hose Engine Oil Pressure	1
41	104316	Control Cable	1



ALTERNATOR ASSEMBLY

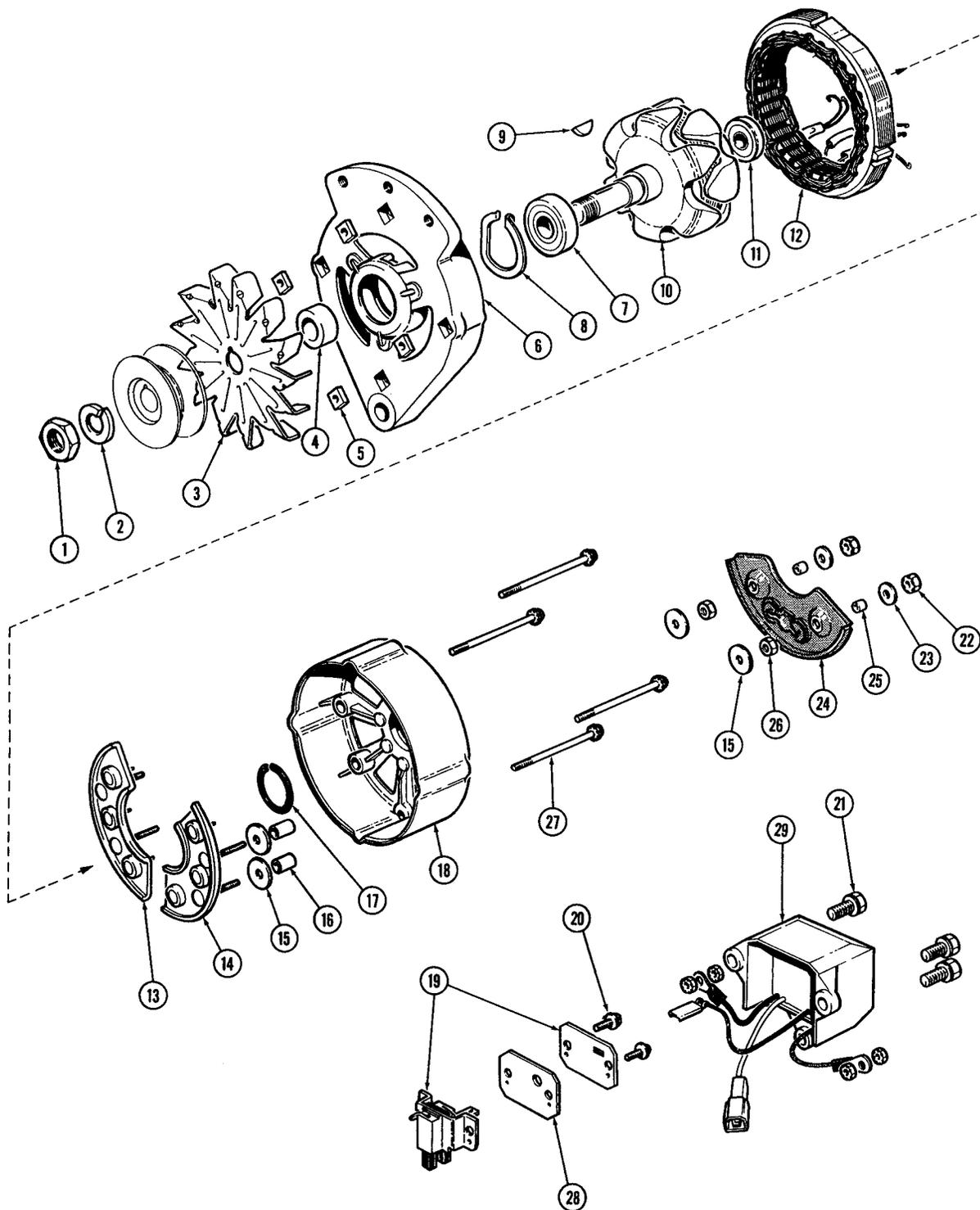


Fig. 3-E Alternator Assembly (Voltage Regulator Attached)



ALTERNATOR ASSEMBLY (VOLTAGE REGULATOR ATTACHED)

ITEM	PART No.	DESCRIPTION	QUANTITY
1	402679	Nut, Pulley Mounting	1
2	100045	Lockwasher	1
3	402680	Fan	1
4	402681	Spacer, Fan and Pulley	1
5	403248	Nut, Square	4
6	402682	Housing, Front	1
7	402677	Bearing, Front	1
8	402683	Retainer, Front Bearing	1
9	401827	Woodruff Key	1
10	402684	Rotor Assembly	1
11	402678	Bearing, Rear	1
12	402685	Stator Assembly	1
13	402686	Diode Assembly, Rectifying Negative	1
14	402687	Diode Assembly, Rectifying, Positive	1
15	402688	Washer, Insulating	5
16	402689	Insulator Sleeve	2
17	402690	Retainer, Rear Bearing	1
18	403857	Housing, Rear	1
19	402699	Brush Assembly And Cover	1
20	402700	Screw, Tapping	2



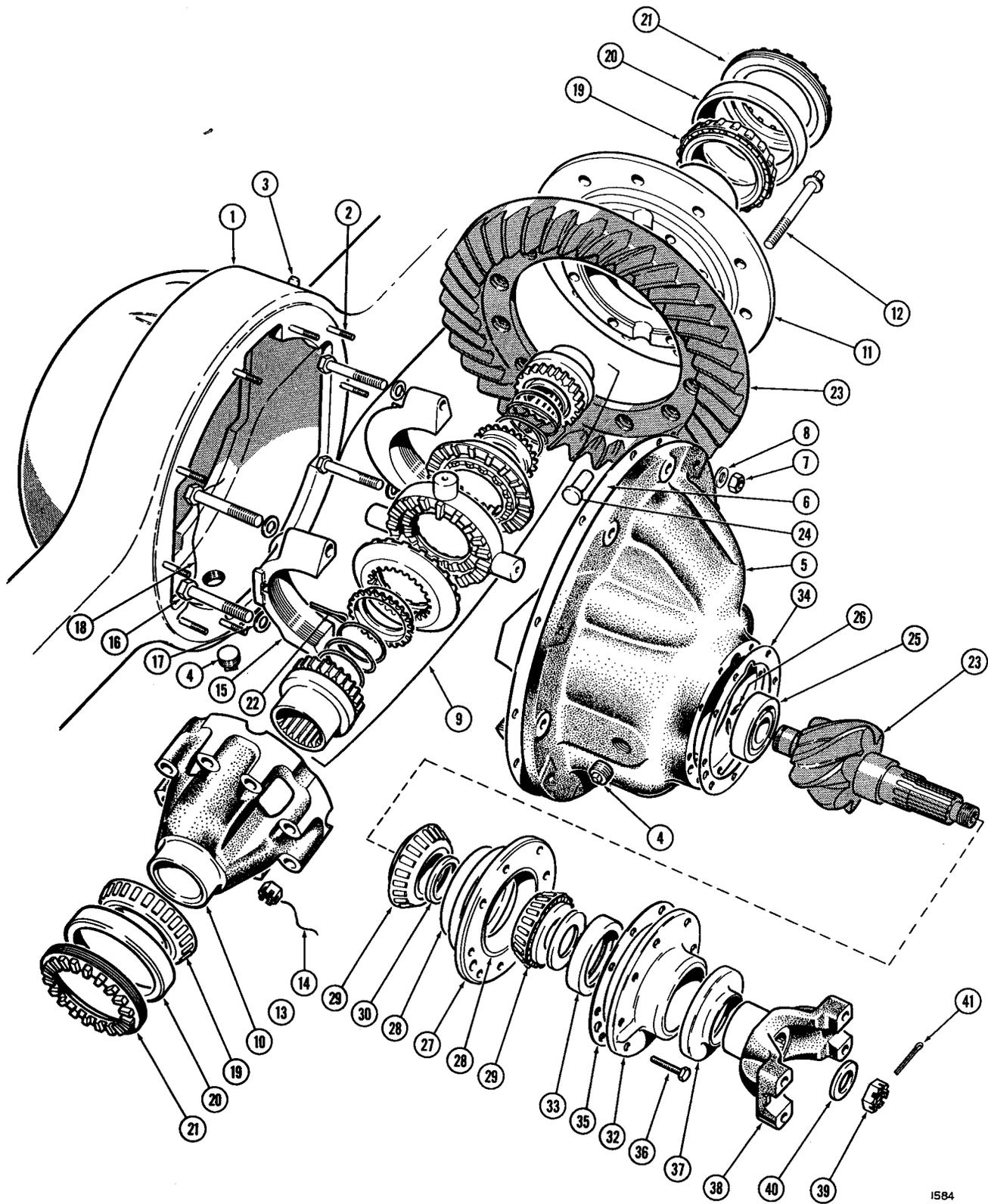
ALTERNATOR ASSEMBLY (VOLTAGE REGULATOR ATTACHED)

ITEM	PART No.	DESCRIPTION	QUANTITY
21	403858	Screw, Tapping	3
22	402695	Locknut	6
23	402701	Washer, Insulating	1
24	403854	Diode Assembly, Isolation, Single	1
25	402704	Insulator Sleeve	1
26	403247	Nut	2
27	402696	Bolt	4
28	403855	Shield, Brush Assembly	1
29	403856	Regulator	1

SECTION—F
FRONT & REAR
AXLE ASSEMBLY



FRONT AND REAR AXLE ASSEMBLY
TIMBERJACK MODEL 330



1584

Fig. 1-F Differential Carrier Assembly - Model 330



AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
	212027	Axle Assembly, Complete	1
* 1	403850	Housing	1
2	400590	Stud, Housing to Carrier	10
3	400579	Breather	1
4	400444	Plug, Oil Drain Plug, Oil Filler	1 1
	400519	Differential Carrier Assembly, Complete	1
5	400522	Carrier, Differential	1
6	400571	Gasket, Carrier to Housing	1
7	400354	Nut, Stud, Carrier to Housing	10
8	405204	Flat Washer	10
9	201319	'No Spin' Differential Assembly (Available only as a Complete Assembly)	1
10	400506	Case, Differential, Plain Half	1
11	400492	Case, Differential, Flanged Half (Available only as a Matched Pair)	1
12	400493	Bolt, Differential Case	8
13	400356	Nut	8
14	400605	Locking Wire	1
15	400406	Cap, Bearing, Differential Case (Not Available as a Spare, Supplied Only with Item #1)	2
16	400524	Capscrew, Bearing Cap	4
17	100436	Washer	4

* For Machines prior to Serial Number 333105 refer to Parts
Bulletin Number 61



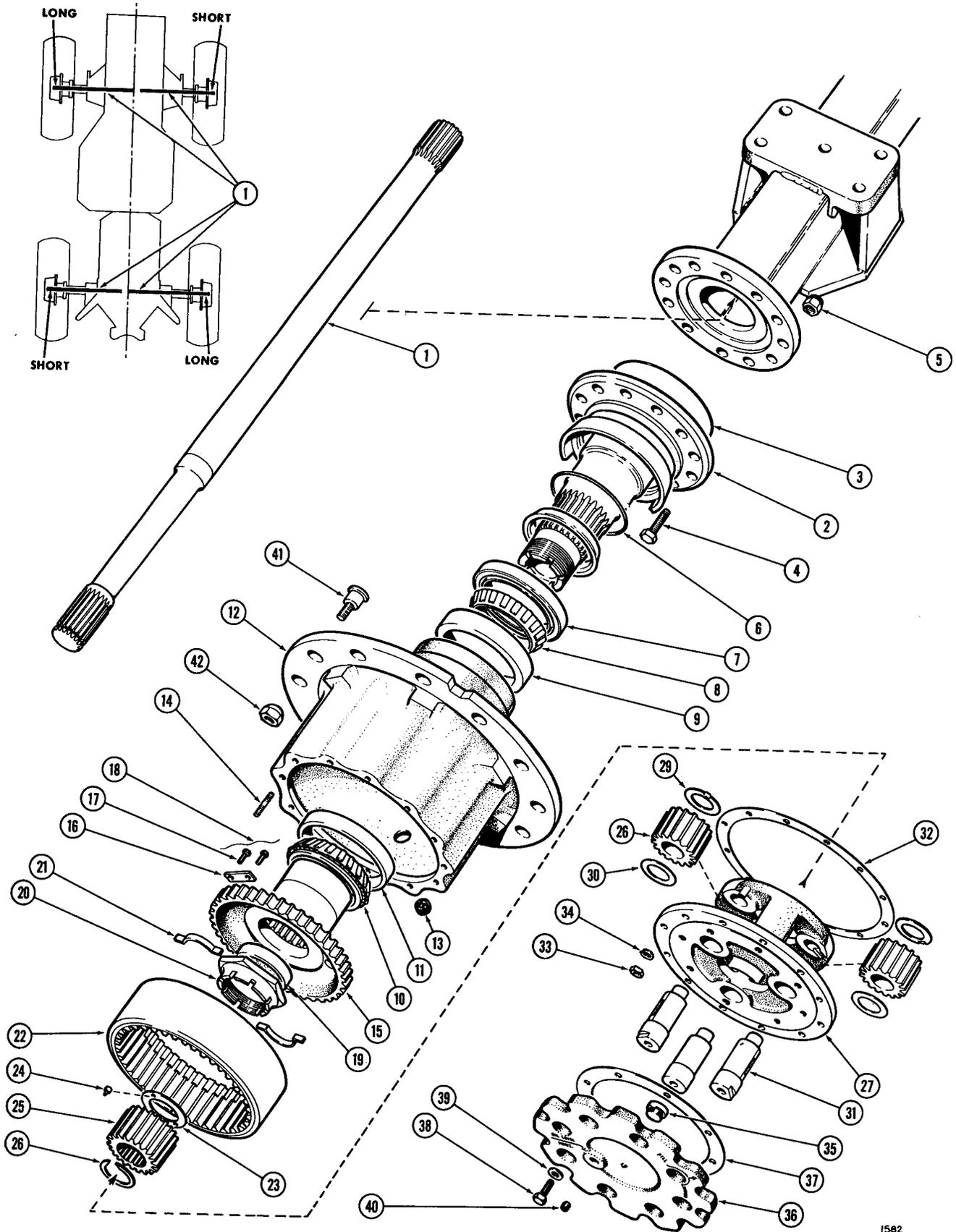
AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
18	400605	Locking Wire	2
19	402579	Cone, Bearing, Differential, R. H.	1
20	402580	Cup, Bearing, Differential, R. H.	1
21	400397	Ring, Adjusting, Differential Bearing, R. H.	1
22	402577	Cone, Bearing, Differential, L. H.	1
23	402578	Cup, Bearing, Differential, L. H.	1
24	400377	Ring, Adjusting, Differential Bearing, L. H.	1
25	400616	Cotter, Adjusting Ring	2
26	400632	Drive Gear and Pinion Assembly (Available only as a Matched Pair)	1
27	400627	Rivet, Differential Case to Drive Gear	12
28	400463	Bearing, Rear, Drive Pinion	1
29	400584	Lock Ring, Bearing to Pinion	1
30	400418	Cage, Forward Bearing, Drive Pinion	1
31	400634	Cup, Inner, Cage	1
32	400635	Cone, Inner, Cage	1
33	402576	Cup, Outer, Cage	1
34	402575	Cone, Outer, Cage	1
35	400594	Spacer (See Below **)	as Req'd.
36	400432	Cover and Oil Seal Assembly (Includes Item 37)	1
37	400544	Oil Seal	1



AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
38	400592	Shim -- .003, Cage to Carrier	as Req'd
	400593	Shim -- .005, Cage to Carrier	as Req'd
39	400488	Gasket, Cover to Cage	1
40	400624	Capscrew, Cover to Carrier	8
41	400546	Slinger, Companion Yoke	1
42	400617	Companion Yoke	1
43	400628	Nut, Pinion	1
44	400587	Washer, Pinion Nut	1
45	400618	Cotter, Pinion Nut	1
** 35	400595	Spacer - .173	As Req'd
	400596	Spacer - .174	
	400597	Spacer - .175	
	400598	Spacer - .176	
	400599	Spacer - .177	
	400600	Spacer - .183	
	400601	Spacer - .189	
	400602	Spacer - .195	
	400603	Spacer - .201	



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Fig. 2-F Shaft and Hub Assembly - Model 330



AXLE - SHAFT AND HUB ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	403847	Axle Drive Shaft - Long (L. H.)	1
	403848	Axle Drive Shaft - Short (R. H.)	1
2	403849	Spindle	1
3	400532	'O' Ring, Spindle to Housing	1
4	403019	Bolt, Spindle to Housing	12
5	400451	Nut	12
6	400480	'O' Ring, Spindle to Wheel Hub	1
7	403842	Seal, Wheel Hub	1
8	402583	Cone, Wheel Hub Bearing , Inner	1
9	402584	Cup, Wheel Hub Bearing, Inner	1
10	402582	Cone, Wheel Hub Bearing, Outer	1
11	402581	Cup, Wheel Hub Bearing, Outer	1
12	403851	Wheel Hub Assembly (Includes Items 7, 8, 9, 11, 13 and 14)	1
13	400413	Plug, Oil Drain/Fill	1
14	400554	Stud, Wheel Hub to Spider	12
15	400588	Hub, Planetary Ring Gear	1
16	400399	Lock,Ring Gear Hub to Ring Gear	1
17	400458	Capscrew, Ring Gear Lock	2
18	400439	Locking Wire	1
19	400422	Sleeve, Planetary Ring Gear	1
20	400448	Nut, Hub to Spindle	1

AXLE - SHAFT AND HUB ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
21	400550	Lock	2
22	400604	Gear, Planetary Ring (52 Teeth)	1
23	400547	Washer, Sun Gear	1
24	400459	Pin	2
25	400572	Gear, Sun Pinion (20 Teeth)	1
26	400445	Lock Ring, Sun Gear to Axle Drive Shaft	1
27	400591	Spider, Planet Pinion Gear	1
28	400573	Gear, Planet Pinion (16 Teeth)	3
29	400565	Thrust Washer, Planet Gear , Inner	3
30	400548	Thrust Washer, Planet Gear, Outer	3
31	400570	Shaft, Planet Gear	3
32	400564	Gasket, Spider to Wheel Hub	1
33	400355	Nut, Spider to Wheel Hub	12
34	400384	Lockwasher	12
35	400533	Thrust Button, Axle Drive Shaft	1
36	400443	Cover, Spider	1
37	400563	Gasket, Spider Cover	1
38	400359	Capscrew, Spider Cover	8
39	405204	Flat Washer	8
40	400387	Plug, Oil Level	1
41	400567	Wheel Stud	12



AXLE - SHAFT AND HUB ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
42	400429	Wheel Nut	12





FRONT AXLE ASSEMBLY
TIMBERJACK MODEL 360

FRONT AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
	212027	Axle Assembly, Complete	1
1	403850	Housing	1
2	400590	Stud, Housing to Carrier	10
3	400579	Breather	1
4	400444	Plug, Oil Drain Plug, Oil Filler	1 1
	400519	Differential Carrier Assembly, Complete	1
5	400522	Carrier, Differential	1
6	400571	Gasket, Carrier to Housing	1
7	400354	Nut, Stud, Carrier to Housing	10
8	405204	Flat Washer	10
9	201319	'No Spin' Differential Assembly (Avaliable only as a Complete Assembly)	1
10	400506	Case, Differential, Plain Half	1
11	400492	Case, Differential, Flanged Half (Available only as a Matched Pair)	1
12	400493	Bolt, Differential Case	8
13	400356	Nut	8
14	400605	Locking Wire	1
15	400406	Cap, Bearing, Differential Case (Not Available as a Spare, Supplied Only with Item #1)	2
16	400524	Capscrew, Bearing Cap	4
17	100436	Washer	4



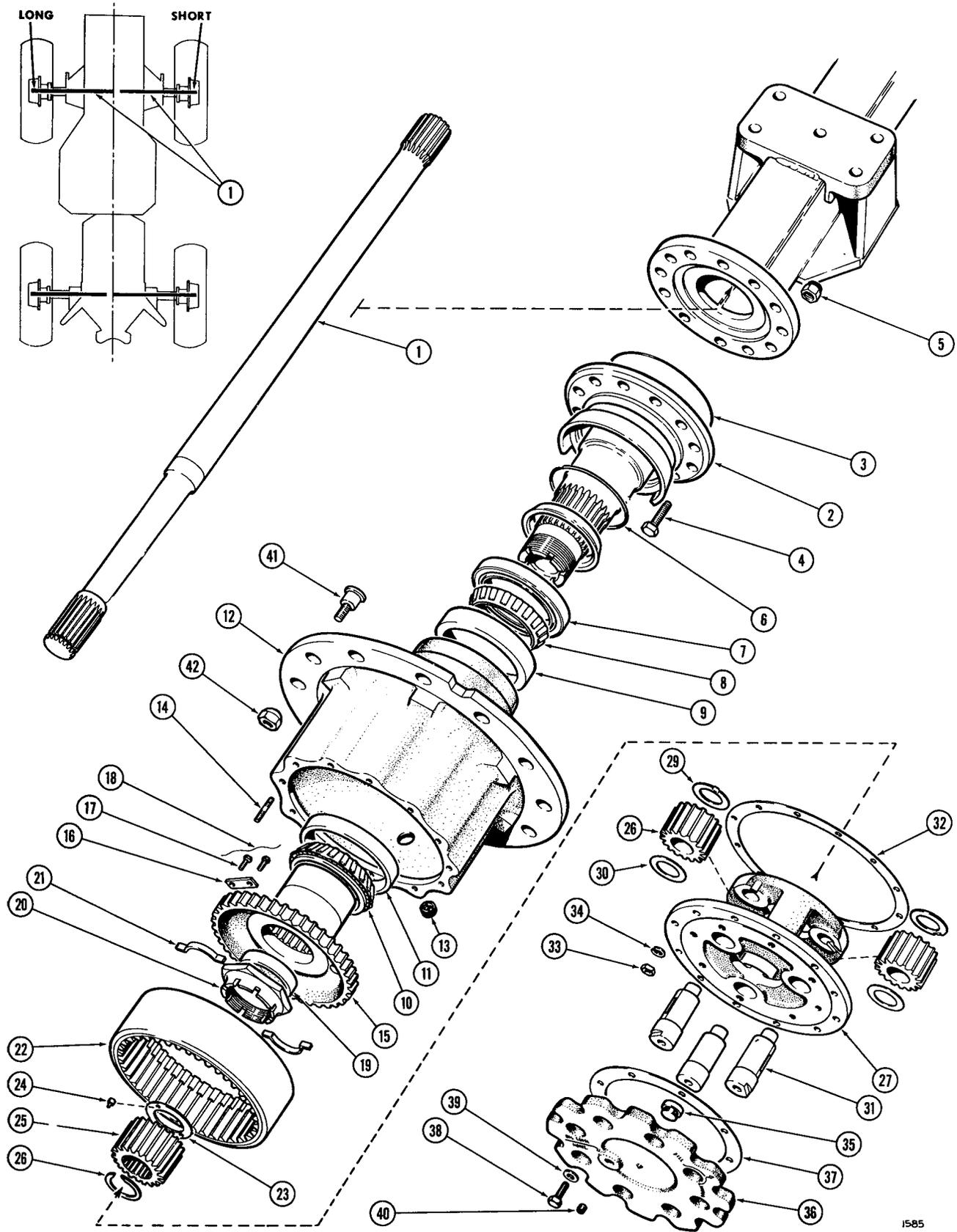
FRONT AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
18	400605	Locking Wire	2
19	402579	Cone, Bearing, Differential, R. H.	1
20	402580	Cup, Bearing, Differential, R. H.	1
21	400397	Ring, Adjusting, Differential Bearing, R. H.	1
22	402577	Cone, Bearing, Differential, L. H.	1
23	402578	Cup, Bearing, Differential, L. H.	1
24	400377	Ring, Adjusting, Differential Bearing, L. H.	1
25	400616	Cotter, Adjusting Ring	2
26	400632	Drive Gear and Pinion Assembly (Available only as a Matched Pair)	1
27	400627	Rivet, Differential Case to Drive Gear	12
28	400463	Bearing, Rear, Drive Pinion	1
29	400584	Lock Ring, Bearing to Pinion	1
30	400418	Cage, Forward Bearing, Drive Pinion	1
31	400634	Cup, Inner, Cage	1
32	400635	Cone, Inner, Cage	1
33	402576	Cup, Outer, Cage	1
34	402575	Cone, Outer, Cage	1
35	400594	Spacer (See Below *)	as Req'd
36	400432	Cover and Oil Seal Assembly (Includes Item #37)	1
37	400544	Oil Seal	1



FRONT AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
38	400592	Shim -- .003, Cage to Carrier	as Req'd
	400593	Shim -- .005, Cage to Carrier	as Req'd
39	400488	Gasket, Cover to Cage	1
40	400624	Capscrew, Cover to Carrier	8
41	400546	Slinger, Companion Yoke	1
42	400617	Companion Yoke	1
43	400628	Nut, Pinion	1
44	400587	Washer, Pinion Nut	1
45	400618	Cotter, Pinion Nut	1
* 35	400595	Spacer - .173	as Req'd
	400596	Spacer - .174	
	400597	Spacer - .175	
	400598	Spacer - .176	
	400599	Spacer - .177	
	400600	Spacer - .183	
	400601	Spacer - .189	
	400602	Spacer - .195	
400603	Spacer - .201		



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Fig. 4-F Shaft and Hub Assembly - Front Axle - Model 360

FRONT AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	403847	Axle Drive Shaft - Long (L. H.)	1
	403848	Axle Drive Shaft - Short (R. H.)	1
2	403849	Spindle	1
3	400532	'O' Ring, Spindle to Housing	1
4	403019	Bolt, Spindle to Housing	12
5	400451	Nut	12
6	400480	'O' Ring, Spindle to Wheel Hub	1
7	403842	Seal, Wheel Hub	1
8	402583	Cone, Wheel Hub Bearing, Inner	1
9	402584	Cup, Wheel Hub Bearing, Inner	1
10	402582	Cone, Wheel Hub Bearing, Outer	1
11	402581	Cup, Wheel Hub Bearing, Outer	1
12	403851	Wheel Hub Assembly (Includes Items 7, 8, 9, 11 13 and 14)	1
13	400413	Plug, Oil Drain/Fill	1
14	400554	Stud, Wheel Hub to Spider	12
15	400588	Hub, Planetary Ring Gear	1
16	400399	Lock, Ring Gear Hub to Ring Gear	1
17	400458	Capscrew, Ring Gear Lock	2
18	400439	Locking Wire	1
19	400422	Sleeve, Planetary Ring Gear	1
20	400448	Nut, Hub to Spindle	1



FRONT AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
21	400550	Lock	2
22	400604	Gear, Planetary Ring (52 Teeth)	1
23	400547	Washer, Sun Gear	1
24	400459	Pin	2
25	400572	Gear, Sun Pinion (20 Teeth)	1
26	400445	Lock Ring, Sun Gear to Axle Drive Shaft	1
27	400591	Spider, Planet Pinion Gear	1
28	400573	Gear, Planet Pinion (16 Teeth)	3
29	400565	Thrust Washer, Planet Gear, Inner	3
30	400548	Thrust Washer, Planet Gear, Outer	3
31	400570	Shaft, Planet Gear	3
32	400564	Gasket, Spider to Wheel Hub	1
33	400355	Nut, Spider to Wheel Hub	12
34	400384	Lockwasher	12
35	400533	Thrust Button, Axle Drive Shaft	1
36	400443	Cover, Spider	1
37	400563	Gasket, Spider Cover	1
38	400359	Capscrew, Spider Cover	8
39	405204	Flat Washer	8
40	400387	Plug, Oil Level	1
41	400567	Wheel Stud	12



FRONT AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

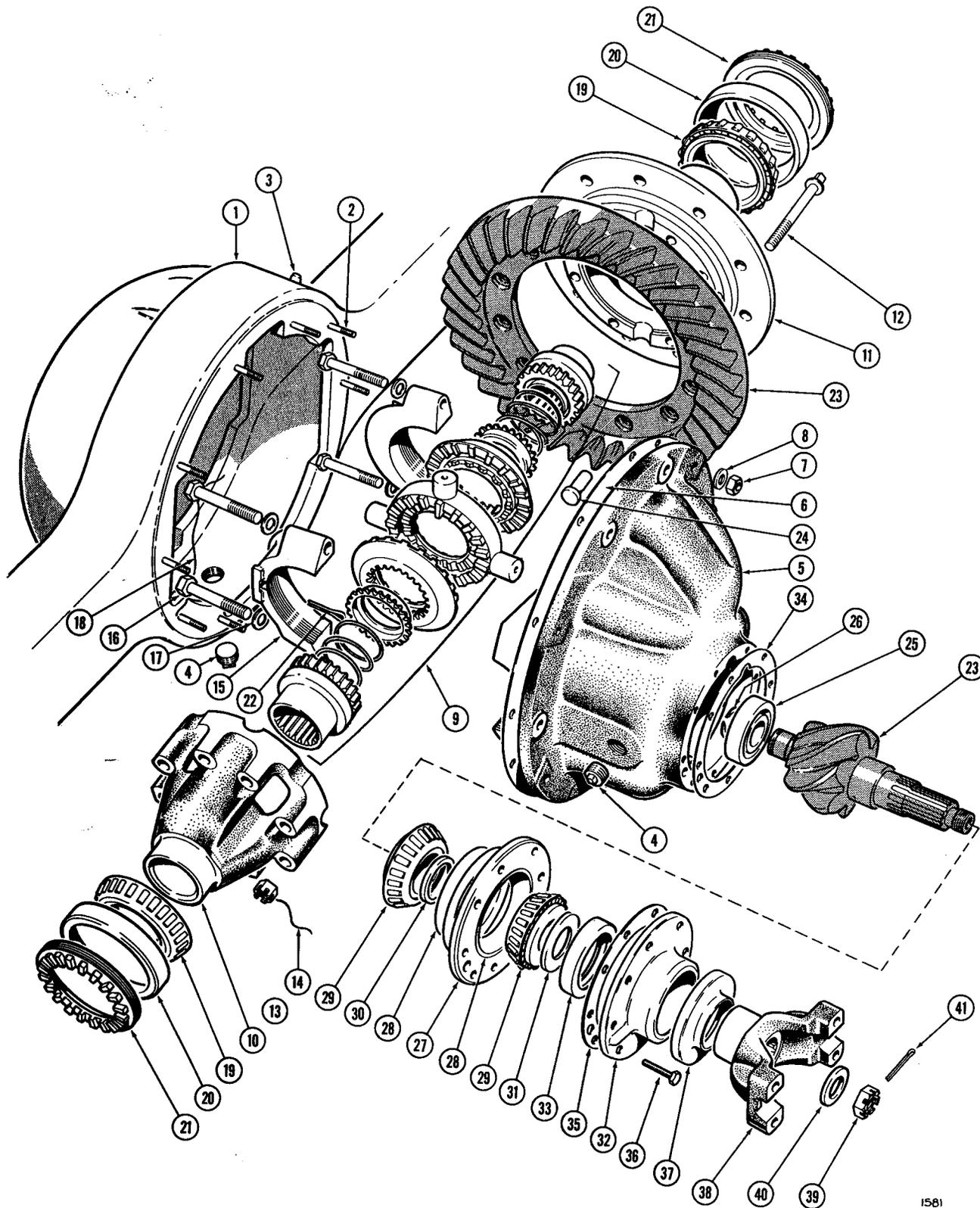
ITEM	PART No.	DESCRIPTION	QUANTITY
42	400429	Wheel Nut	12



TIMBERJACK 
MACHINES LIMITED



REAR AXLE ASSEMBLY
TIMBERJACK MODEL 360



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Fig. 5-F Differential Carrier Assembly - Rear Axle - Model 360



REAR AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
	104384	Axle Assembly, Complete	1
1	405387	Housing	1
2	405393	Stud, Long, Housing to Carrier	2
	405394	Stud, Medium	2
	104509	Stud, Short	6
3	400579	Breather	1
4	400444	Plug, Oil Drain	1
		Plug, Oil Filler	1
	405388	Differential Carrier Assembly, Complete	1
5	405395	Carrier, Differential	1
6	400571	Gasket, Carrier to Housing	1
7	405389	Nut, Stud, Carrier to Housing	10
8	405204	Flat Washer	10
9	405401	'No Spin' Differential Assembly (Available Only as a Complete Assembly)	1
10	405400	Case, Differential, Plain Half	1
11		Case, Differential, Flanged Half (Available Only as a Matched Pair)	1
12		Bolt, Differential Case	8
13		Nut	8
14		Locking Wire	1
15		Cap, Bearing, Differential Case (Not available as a Spare, Supplied only with Item #1)	2
16		Capscrew, Bearing Cap	4



REAR AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
17		Washer	4
18	405428	Locking Wire	1
19	402577	Cone, Bearing, Differential	2
20	402578	Cup, Bearing, Differential	2
21	400377	Ring, Adjusting, Differential Bearing	2
22	400616	Cotter, Adjusting Ring	2
23	405399	Drive Gear and Pinion Assembly (Available only as a Matched Pair)	1
24		Rivet, Differential Case to Drive Gear	12
25	104511	Bearing, Rear, Drive Pinion	1
26		Lock Ring, Bearing to Pinion	1
27	405417	Cage, Forward Bearing, Drive Pinion	1
28	405430	Cup, Forward Bearing	2
29	405431	Cone, Forward Bearing	2
30		Spacer, Bearing Cone (See Below*)	As Req'd
31	405429	Thrust Washer	1
32	400418	Cover and Oil Seal Assembly (Includes Item 33)	1
33	405403	Oil Seal	1
34	405396	Shim - .003	Use as Req'd
	405397	Shim - .005	
	405398	Shim - .010	
35		Gasket, Cover to Cage	1



REAR AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

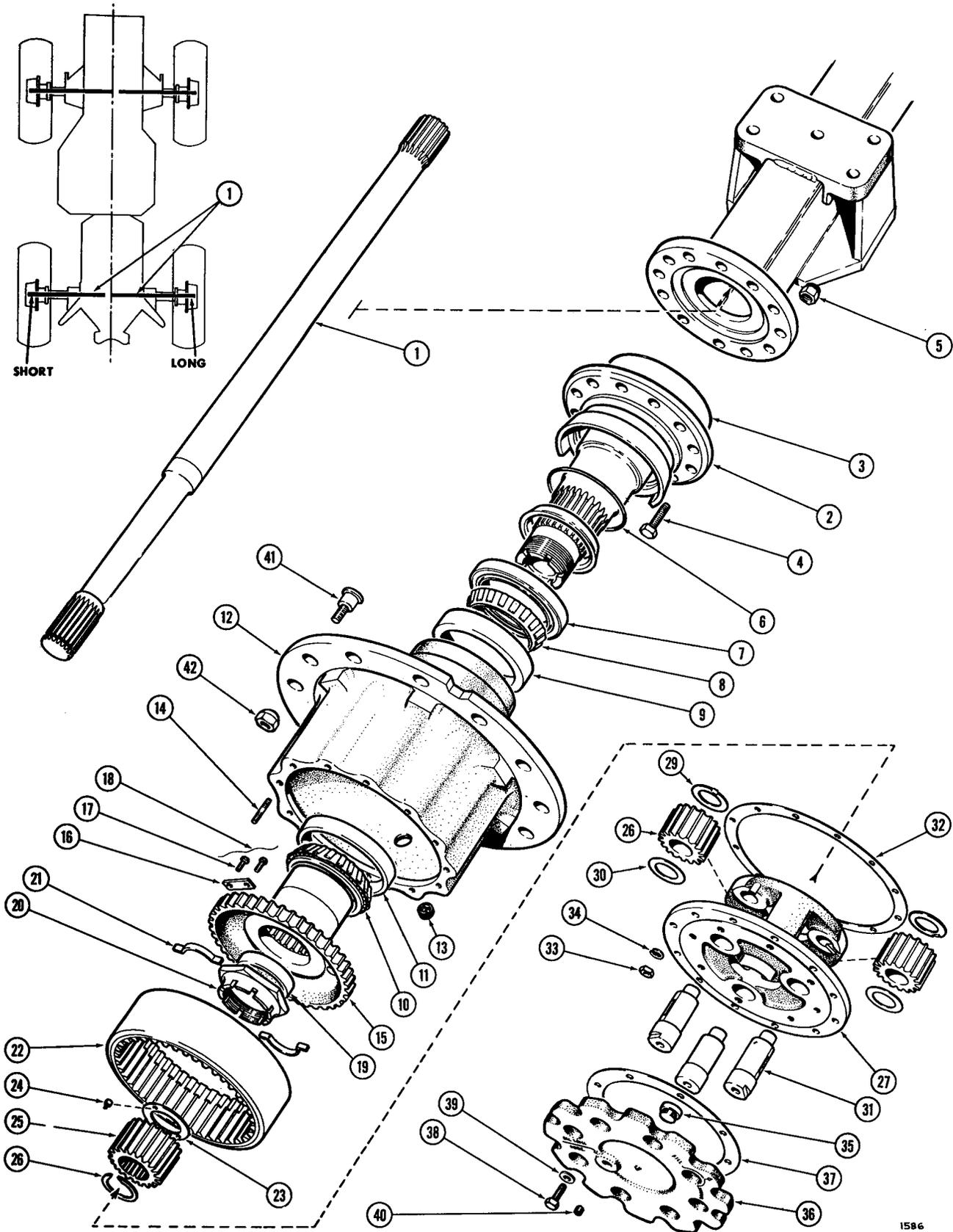
ITEM	PART No.	DESCRIPTION	QUANTITY
36	104510	Capscrew, Cover to Carrier	8
37	405402	Slinger, Companion Yoke	1
38	104499	Companion Yoke	1
39	405405	Nut, Pinion	1
40	400587	Washer	1
41	400618	Cotter	1
* 30	405406	Spacer - .165	as Req'd
	405407	Spacer - .166	
	405408	Spacer - .167	
	405409	Spacer - .168	
	405410	Spacer - .169	
	405411	Spacer - .170	
	405412	Spacer - .176	
	405413	Spacer - .182	
	405414	Spacer - .188	
	405415	Spacer - .194	
	405416	Spacer - .200	
		Continued	



REAR AXLE - DIFFERENTIAL CARRIER ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
	405432	Spacer - .334	as Req'd
	405433	Spacer - .335	
	405434	Spacer - .336	
	405435	Spacer - .337	
	405436	Spacer - .338	
	405437	Spacer - .339	
	405438	Spacer - .340	
	405439	Spacer - .341	
	405440	Spacer - .342	
	405441	Spacer - .343	
	405442	Spacer - .344	
	405443	Spacer - .345	
	405444	Spacer - .346	
	405445	Spacer - .347	
	405446	Spacer - .348	
	405447	Spacer - .349	
	405448	Spacer - .350	
	405449	Spacer - .351	
	405450	Spacer - .352	
	405451	Spacer - .353	
	405452	Spacer - .354	
	405453	Spacer - .355	
	405454	Spacer - .356	
	405455	Spacer - .357	
	405456	Spacer - .358	
	405457	Spacer - .359	
	405458	Spacer - .360	
	405459	Spacer - .361	
	405460	Spacer - .362	
	405461	Spacer - .363	
	405462	Spacer - .364	
	405463	Spacer - .365	





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Fig. 6-F Shaft and Hub Assembly - Rear Axle - Model 360



REAR AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	403847	Axle Drive Shaft - Long (L. H.)	1
	403848	Axle Drive Shaft - Short (R. H.)	1
2	403849	Spindle	1
3	400532	'O' Ring, Spindle to Housing	1
4	403019	Bolt, Spindle to Housing	12
5	400451	Nut	12
6	400480	'O' Ring, Spindle to Wheel Hub	1
7	403842	Seal, Wheel Hub	1
8	402583	Cone, Wheel Hub Bearing, Inner	1
9	402584	Cup, Wheel Hub Bearing, Inner	1
10	402582	Cone, Wheel Hub Bearing, Outer	1
11	402581	Cup, Wheel Hub Bearing, Outer	1
12	403851	Wheel Hub Assembly (Includes Items 7, 8, 9, 11, 13, and 14)	1
13	400413	Plug, Oil Drain	1
14	400554	Stud, Wheel Hub to Spider	12
15	400588	Hub, Planetary Ring Gear	1
16	400399	Lock, Ring Gear Hub to Ring Gear	1
17	400458	Capscrew	2
18	400439	Locking Wire	1
19	400422	Sleeve, Planetary Ring Gear	1
20	400448	Nut, Hub to Spindle	1



REAR AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
21	400550	Lock	2
22	400604	Gear, Planetary Ring (52 Teeth)	1
23	400547	Washer, Sun Gear	1
24	400459	Pin	2
25	400572	Gear, Sun Pinion (20 Teeth)	1
26	400445	Lock Ring, Sun Gear to Axle Drive Shaft	1
27	400591	Spider, Planet Pinion Gears	1
28	400573	Gear, Planet Pinion (16 Teeth)	3
29	400565	Thrust Washer, Planet Gear, Inner	3
30	400548	Thrust Washer, Planet Gear, Outer	3
31	400570	Shaft , Planet Gear	3
32	400564	Gasket, Spider to Wheel Hub	1
33	400355	Nut, Spider to Wheel Hub	12
34	400384	Lockwasher	12
35	400533	Thrust Button, Axle Drive Shaft	1
36	400443	Cover, Spider	1
37	400563	Gasket, Spider Cover	1
38	400539	Capscrew, Spider Cover	8
39	405204	Flat Washer	8
40	400387	Plug, Oil Level	1
41	400567	Wheel Stud	12



REAR AXLE - SHAFT AND HUB ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
42	400429	Wheel Nut	12



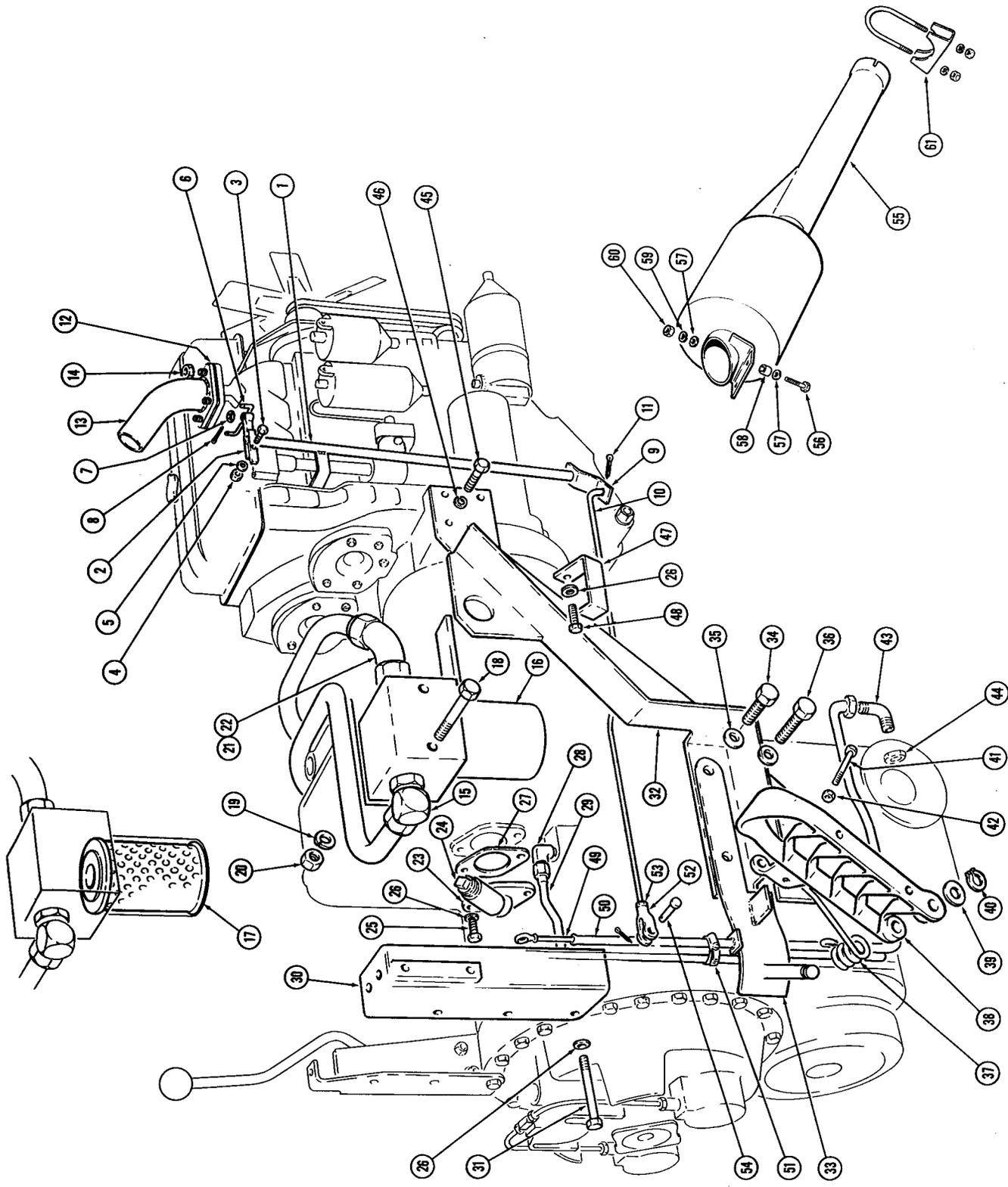
SECTION—G

POWER UNIT





POWER UNIT ASSEMBLY - RIGHT HAND
TIMBERJACK MODEL 330



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Fig. 1-G Power Unit Assembly - Right Hand - Model 330



POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500726	Tube	1
2	500125	Bellcrank	1
3	101935	Pinch Bolt 1/4 - 20 UNC x 1 1/2	1
4	103334	Locknut 1/4 - 20 UNC	1
5	100433	Plain Washer 1/4	1
6	500079	Throttle Link	1
7	100434	Plain Washer 5/16	2
8	101189	Cotter Pin	2
9	500602	Throttle Rod	1
10	501684	Connecting Rod	1
11	101293	Cotter Pin	1
12	405090	Gasket	1
13	501606	Exhaust Adaptor	1
14	103951	Nut 3/8 - 16 UNC Brass	3
15	103971	Elbow	1
16	103973	Oil Filter	1
17	405211	Cartridge, Oil Filter	1
18	100479	Bolt 7/16 - 14 UNC x 5	2
19	100053	Lockwasher 7/16	4
20	100052	Nut 7/16 - 14 UNC	2
21	103972	Straight Fitting, Oil Filter	1

POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
22	103970	Elbow	1
23	500559	Filter Neck	1
24	103562	Plug	1
25	100025	Bolt 3/8 - 16 UNC x 1	2
26	100026	Lockwasher 3/8	2
27	500831	Gasket	1
28	103285	Elbow	1
29	500274	Tube Breather	1
30	500356	Mounting, Hand Brake	1
31	100348	Bolt 3/8 - 16 UNC x 3	3
32	501681	Mounting Assembly R. H.	1
33	501672	Plate, Throttle Pedal Mounting	1
34	100271	Bolt 5/8 - 11 UNC x 1	2
35	100436	Washer 5/8	4
36	100272	Bolt 5/8 - 11 UNC x 1 1/4	2
37	103977	Spring	1
38	500725	Throttle Pedal	1
39	103289	Thrust Washer	1
40	103288	Snap Ring	1
41	100241	Stop Bolt 1/2 - 13 UNC x 1 3/4	1
42	102091	Nut 1/2 x 13 UNC	2

POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 330			
ITEM	PART No.	DESCRIPTION	QUANTITY
43	100745	Elbow	1
44	104411	Reducer	1
45	100055	Bolt 1/2 - 13 UNC x 1 1/4	4
46	100024	Lockwasher 1/2	4
47	500900	Bracket Pipe Retaining	1
48	100903	Bolt 3/8 - 24 UNF x 1 1/4	1
49	501669	Dipstick	1
50	501668	Tube	1
51	100554	Retaining Clip	1
52	100079	Yoke End	1
53	100524	Retaining Nut	1
54	100668	Yoke Pin Assembly	1
55	501607	Exhaust Assembly	1
56	100225	Bolt 3/8 - 16 UNC x 1 3/4	2
57	100064	Washer 3/8	2
58	500898	Spacer 3/8	2
59	100026	Lockwasher 3/8	6
60	102089	Nut 3/8 - 16 UNC	2
61	103948	Clamp Assembly	1

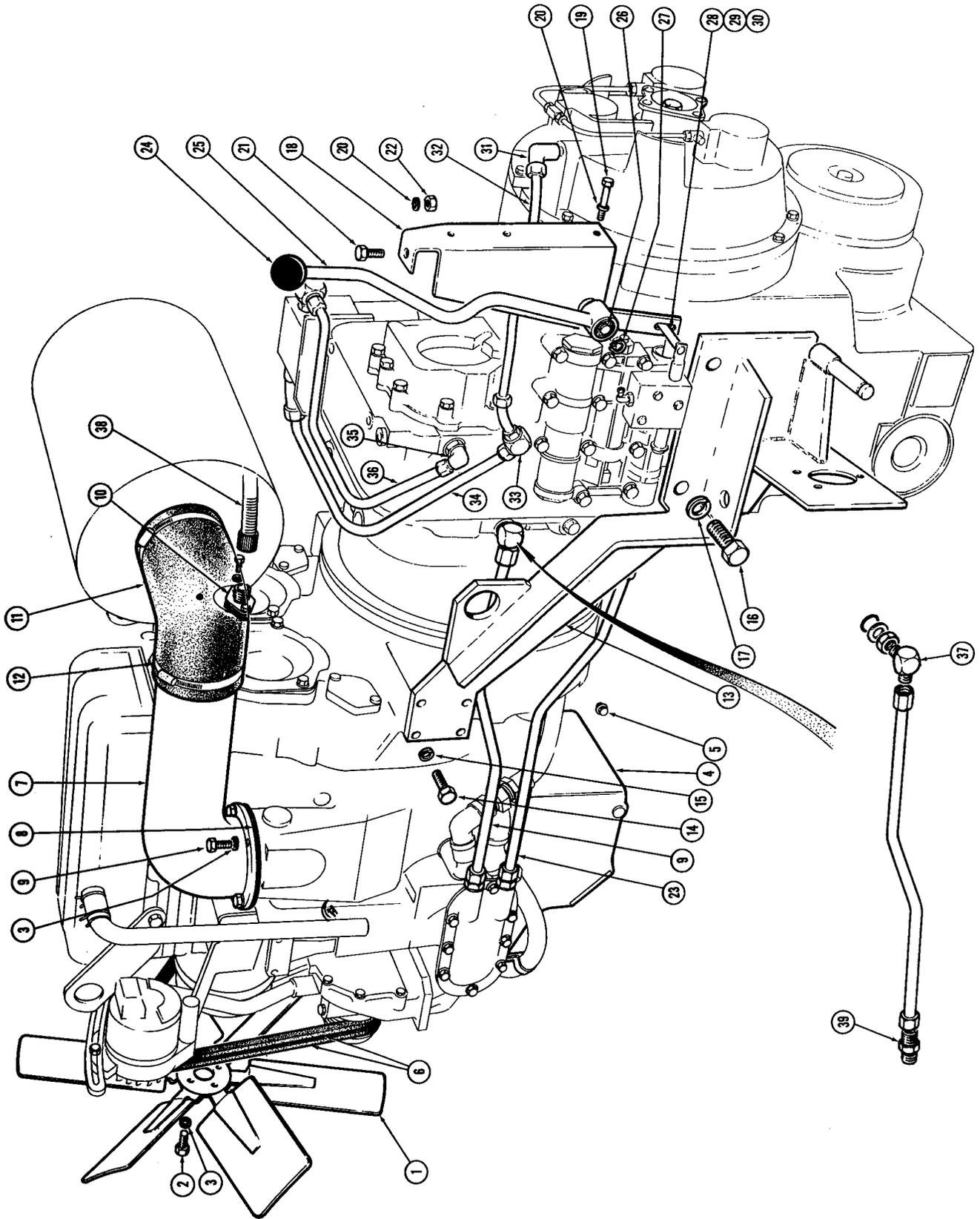


Fig. 2-G Power Unit Assembly - Left Hand - Model 330



POWER UNIT ASSEMBLY - LEFT HAND - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	103057	Fan 20 in. diameter	1
2	101785	Set Screw 5/16 - 18 UNC x1	8
3	100073	Lockwasher 5/16	8
4	500457	Oil Sump	1
5	103557	Drain Plug	1
6	101032	Belt Alternator Drive	2
7	500409	Air Intake	1
8	200395	Gasket	1
9	103143	Tube - Transmission to Cooler	1
10	103728	Tachometer Kit	1
11	500407	Elbow	1
12	101921	Clip	2
13	501752	Mounting Engine & Transmission L. H.	1
14	100055	Set Screw 1/2 - 13 UNC x 1 1/4	4
15	100024	Lockwasher 1/2	4
16	100271	Set Screw 5/8 - 11 UNC x 1	4
17	100436	Hardened Flat Washer 5/8	4
18	500355	Mounting Gear Shift Lever	1
19	100230	Bolt 3/8 - 16 UNC x 3	1
20	100026	Lockwasher 3/8	1
21	100222	Bolt 3/8 - 16 UNC x 1	1



POWER UNIT ASSEMBLY - LEFT HAND - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
22	102089	Nut 3/8 - 16 UNC	1
23	103140	Tube - Cooler to Transmission	1
24	103290	Knob	1
25	501239	Lever, Shift	1
26	103087	Bush	1
27	103339	Snap Ring	1
28	501076	Shift Pin	1
29	101362	Locknut 3/8 - 24 UNF	1
30	100064	Washer 3/8	1
31	103145	Tube	1
32	103529	Male Elbow 45°	1
33	500735	Male Elbow	1
34	103142	Tube	1
35	102896	Male Elbow	1
36	103141	Tube	1
37	102894	Elbow Assembly	2
38	103836	Tachometer Cable	1
39	100676	Connector	2



POWER UNIT ASSEMBLY - RIGHT HAND
TIMBERJACK MODEL 360

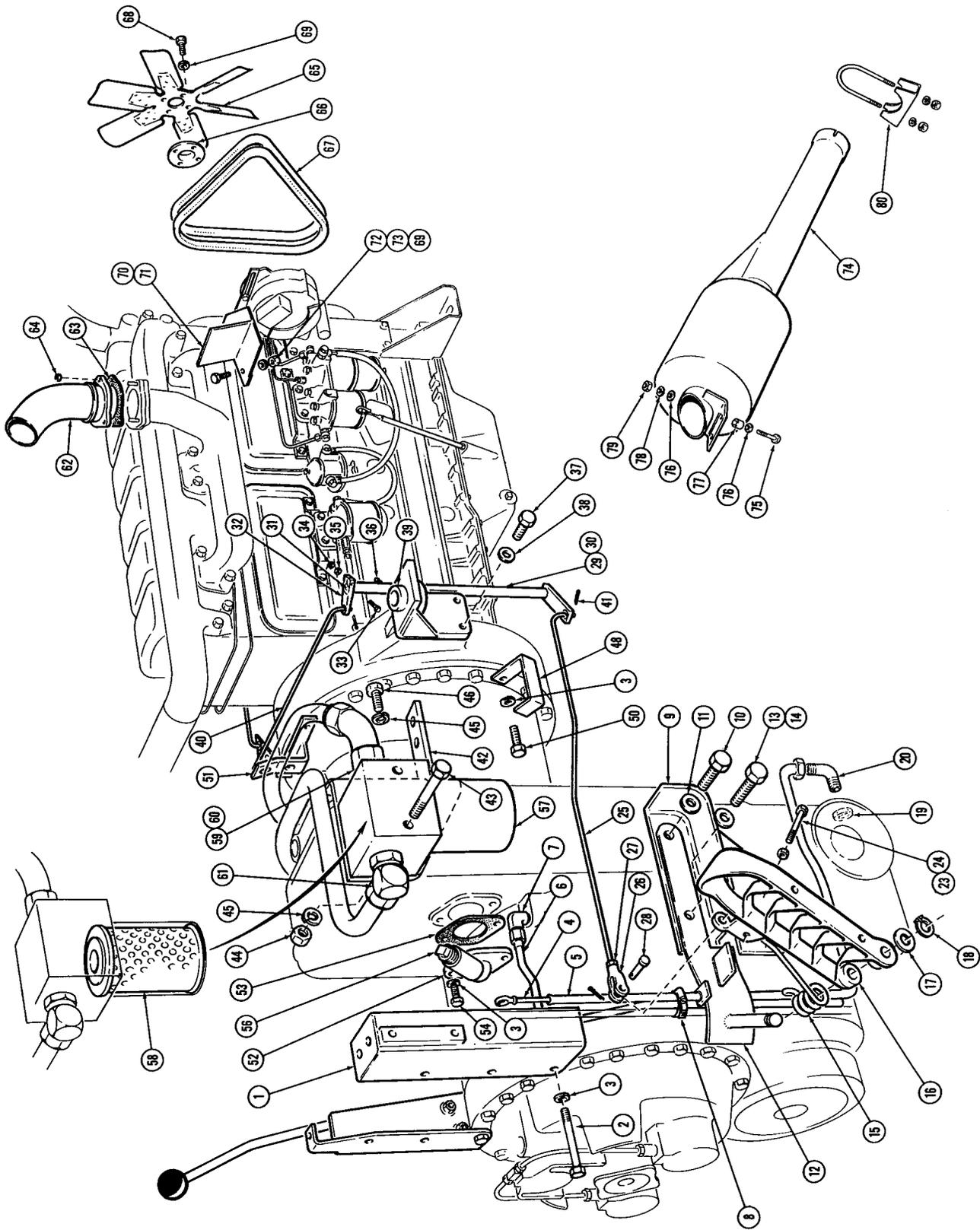


Fig. 3-G Power Unit Assembly - Right Hand - Model 360



POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500356	Mounting Hand Brake	1
2	100348	Bolt 3/8 - 16 UNC x 3	3
3	100026	Lockwasher 3/8	3
4			
5			
6	500274	Tube, Breather	1
7	103285	Elbow	1
8	100554	Retaining Clip	1
9	501262	Mounting, Engine and Transmission R. H.	1
10	100271	Bolt 5/8 - 11 UNC x 1	2
11	100436	Plain Washer 5/8	4
12			
13	100272	Bolt 5/8 - 11 UNC x 1 1/4	2
14			
15	103977	Spring	1
16	500725	Throttle Pedal	1
17	103289	Thrust Washer	1
18	103288	Snap Ring	1
19			
20			
21			



POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
23	100241	Stop Bolt 1/2 - 13 UNC x 1 3/4	1
24	102091	Nut 1/2 - 13 UNC	2
25	501091	Throttle Rod	1
26	100079	Yoke End	1
27			
28	100068	Yoke Pin Assembly	
	501082	Engine Mounting and Throttle Assembly R. H. (Comprising Items 29, 30)	1
29	501083	Mounting and Tube	1
30	103136	Bush	2
31	501081	Rod Assembly	1
32	501032	Bellcrank	1
33	101935	Bolt 1/4 - 20 UNC x 1 1/2	1
34	103334	Locknut 1/4 - 20 UNC	1
35	100433	Plain Washer 1/4	1
36	103197	Grease Nipple	1
37	100925	Bolt 1/2 - 20 UNF x 1	4
38	100077	Plain Washer 1/2	4
39	103867	Mount	1
40	501093	Throttle Rod	1
41	100533	Cotter Pin	2
42	500544	Bracket, Oil Filter	1

POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
43	100479	Bolt 7/16 - 14 UNC x 5	2
44	100052	Nut 7/16 - 14 UNC	2
45	100053	Lockwasher 7/16	4
46	100119	Bolt 7/16 - 14 UNC x 1 1/4	2
47			
48	500900	Bracket, Pipe Retaining	1
49			
50	100903	Bolt 3/8 - 24 UNF x 1 1/4	1
51	501042	Bracket, Dozer Tee	1
52	500559	Filler Neck	1
53	500831	Gasket	1
54	100025	Bolt 3/8 - 16 UNC x 1	2
55			
56	103562	Plug	1
57	103973	Oil Filter	1
58	405211	Cartridge, Oil Filter	1
59	103972	Straight Fitting, Oil Filter	1
60	103970	Elbow	1
61	103971	Elbow	1
62	501581	Exhaust Adaptor	1
63	405090	Gasket	1

POWER UNIT ASSEMBLY - RIGHT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
64	103951	Nut 3/8 - 16 UNC Brass	3
65	104274	Fan	1
66	501206	Spacer	1
67	104628	Fan Belt	1
68	102858	Bolt 5/16 - 24 UNF x 1 1/2	4
69	100073	Lockwasher 5/16	4
	501011	Heat Shield Assembly Comprises Items 70-72	1
70	501512	Support, Heat Shield Assembly	1
71	501511	Deflector Plate	1
72	101902	Bolt 5/16 - 18 UNC x 3/4	2
73	102088	Nut 5/16 - 18 UNC	2
74	501001	Exhaust Assembly	1
75	100225	Bolt 3/8 - 16 UNC x 1 3/4	2
76	100064	Washer 3/8	4
77	500898	Spacer 3/8	2
78	100026	Lockwasher 3/8	6
79	102089	Nut 3/8 - 16 UNC	2
80	103948	Clamp Assembly	1



POWER UNIT ASSEMBLY - LEFT HAND -
TIMBERJACK MODEL 360

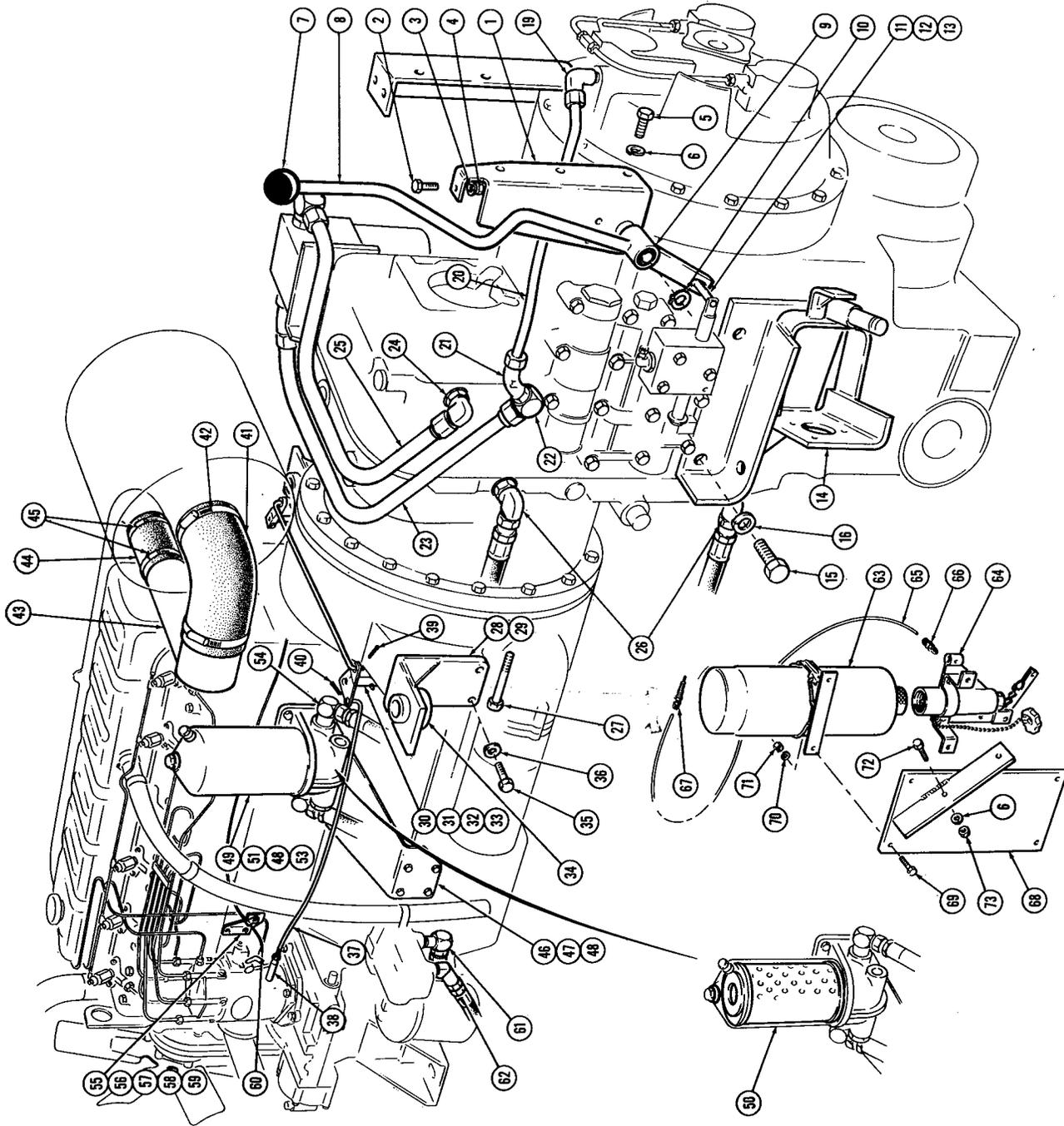


Fig. 4-G Power Unit Assembly - Left Hand - Model 360



POWER UNIT ASSEMBLY - LEFT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500355	Support, Shift Lever	1
2	100224	Bolt 3/8 - 16 UNC x 1 1/2	1
3	100026	Lockwasher 3/8	1
4	102089	Nut 3/8 - 16 UNC	1
5	100231	Bolt 3/8 - 16 UNC x 4	1
6	100026	Lockwasher 3/8	3
7	103290	Knob	1
8	501239	Lever, Shift	1
9	103087	Bush	1
10	103339	Snap Ring	1
11	501076	Shift Pin	1
12	101362	Locknut 3/8 - 24 UNF	1
13	100064	Washer 3/8	1
14	501265	Trans. Brake Mount L. H.	1
15	100271	Bolt 5/8 - 11 UNC x 1	4
16	100436	Washer 5/8	4
17	103285	Male Elbow	1
18	103488	Reducer	1
19	103285	Male Elbow	1
20	103145	Tube	1
21	103529	Male Elbow 45° REDUCER	1



POWER UNIT ASSEMBLY - LEFT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
22	500735	Male Elbow TEE	1
23	103142	Tube	1
24	102896	Male Elbow	1
25	103141	Tube	1
26	102896	Male Elbow	2
27	104221	Bolt 3/8-24 UNF 2 3/4 Gr. 8	8
28	501088	Motor Mount and Throttle Assembly L. H. (includes Items 29 - 33)	1
29	501090	Motor Mount Only	1
30	103136	Bush	2
31	501089	Throttle Rod L. H.	1
32	103197	Grease Nipple	1
33	100435	Washer 7/16	1
34	103867	Rubber Mount	1
35	100925	Bolt 1/2 - 20 UNF x 1	4
36	100024	Lockwasher 1/2	4
37	501095	Third Throttle Rod	1
38	104077	Throttle Link	1
39	100533	Cotter Pin 1/8	2
40	101455	Cotter Pin 3/32	1
41	500407	Elbow	1
42	101921	Hose Clamp	2

POWER UNIT ASSEMBLY - LEFT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
43	501275	Air Inlet	1
44	501271	Hose	1
45	100088	Hose Clamp	2
46	501563	Mount, Filter	1
47	100913	Bolt 7/16 - 20 UNF x 1	4
48	100053	Lockwasher 7/16	8
49	501562	Oil Filter Complete	1
50	403755	Oil Filter Cartridge	4
51	100916	Bolt 7/16 - 20 UNF x 1 3/4	4
52			
53	100651	Nut 7/16 - 20 UNF	4
54	102930	Male Elbow	2
55	501498	Bracket, Control Cable	1
56	103185	Clip	1
57	103772	Bolt 5/16 - 24 UNF x 3/4	3
58	100073	Lockwasher 5/16	3
59	100419	Nut 5/16 - 24 UNF	1
60	104019	End, Stop Cable	1
61	101402	Male Elbow	1
62	103477	Male Elbow 45°	1
63	403933	Quick Start Replacement Cylinder	1

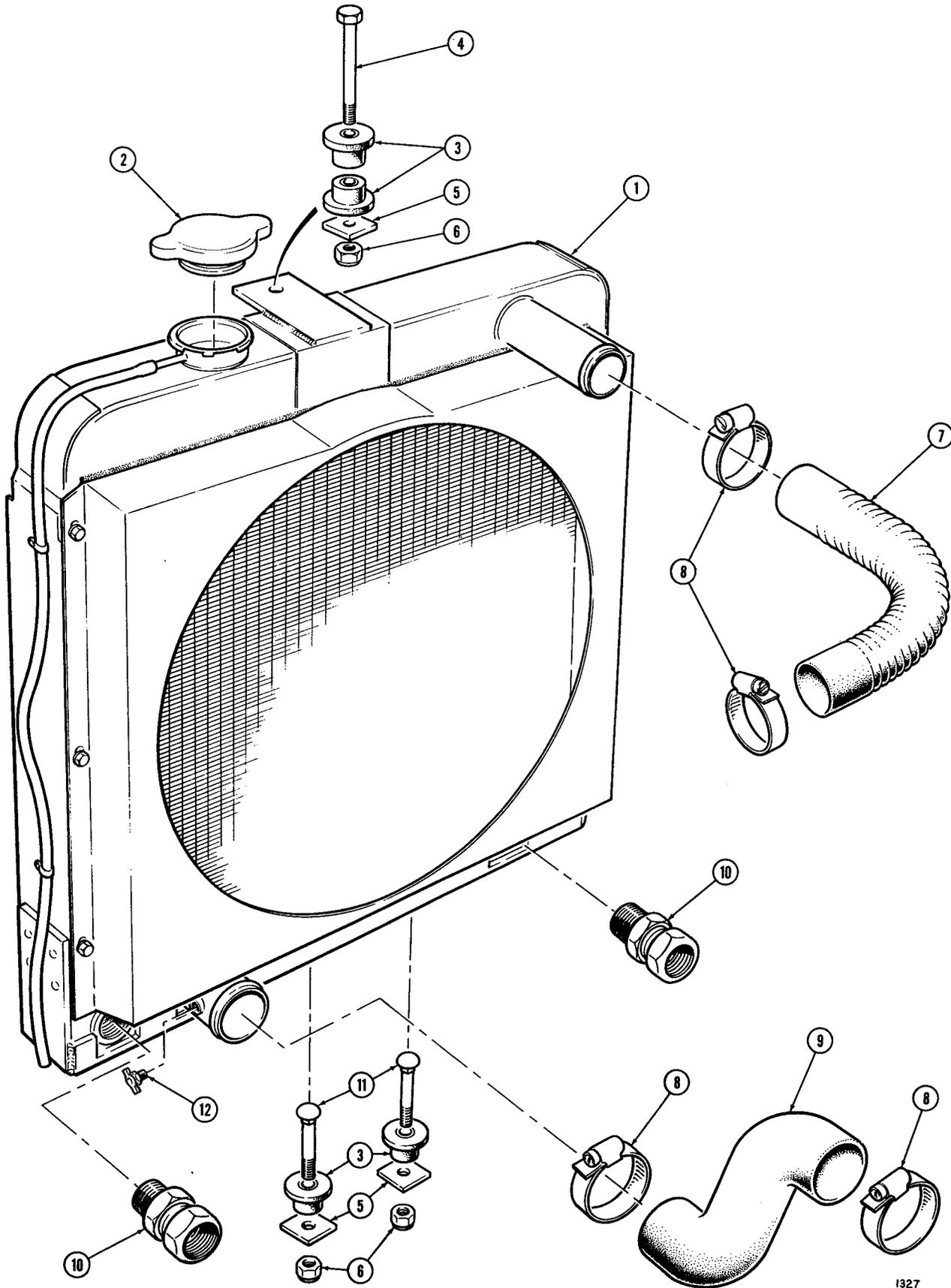


POWER UNIT ASSEMBLY - LEFT HAND - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
64	405344	Quick Start Valve Assembly	1
65	403990	Nylon Tube	1
66	403993	Valve Fitting	1
67	405465	Atomizer	1
68	501028	Quick Start Mount	1
69	100216	Bolt 1/4 - 28 UNF x 3/4	4
70	100029	Lockwasher 1/4	4
71	100418	Nut 1/4 - 28 UNF	4
72	100902	Bolt 3/8 - 24 UNF x 1	2
73	100650	Nut 3/8 - 24 UNF	2
	404012	Valve Repair Kit	1



RADIATOR ASSEMBLY -
TIMBERJACK MODEL 330



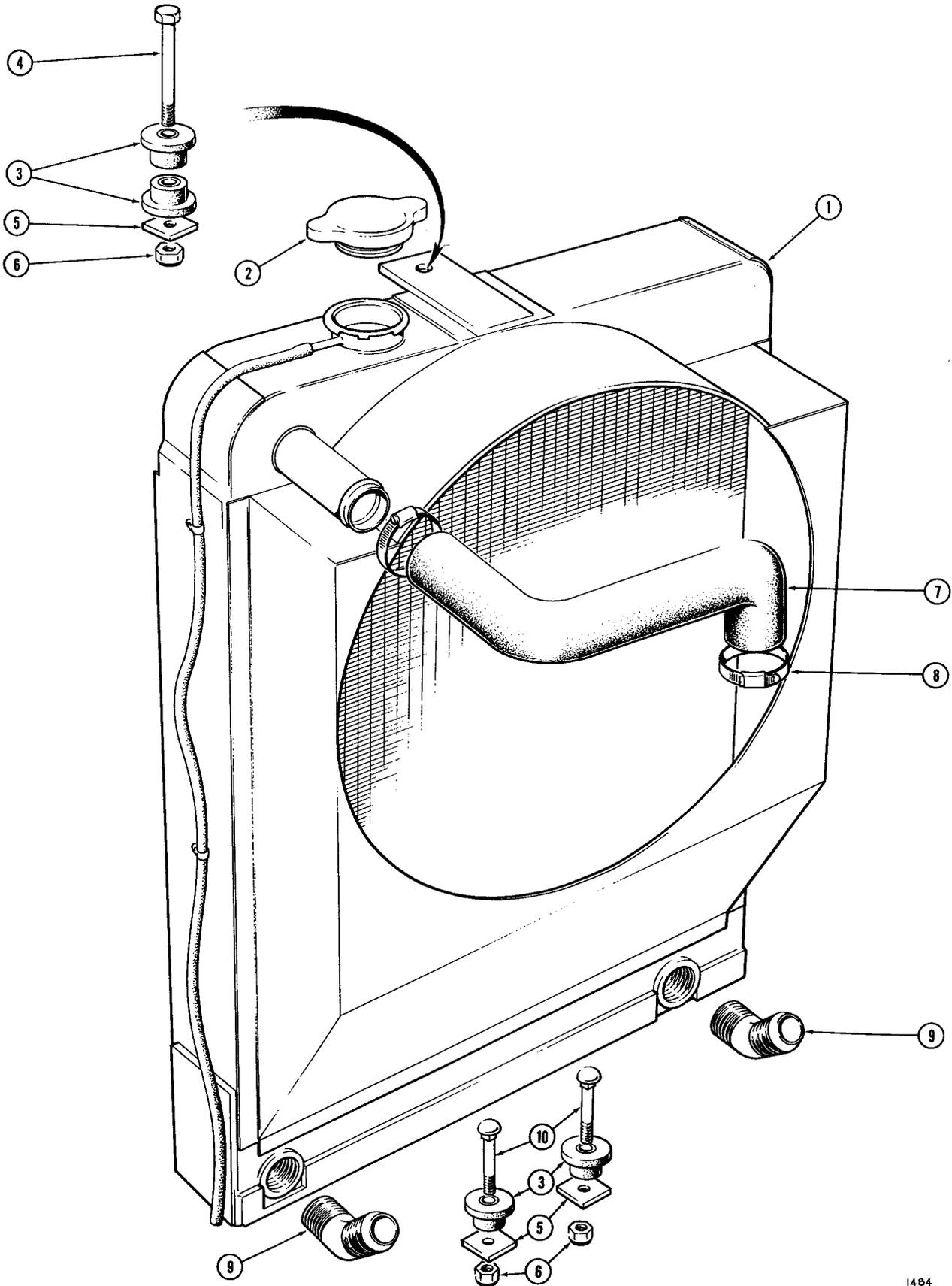
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Fig. 5-G Radiator Assembly - Model 330



RADIATOR ASSEMBLY - MODEL 330

ITEM	PART No.	DESCRIPTION	QUANTITY
1	104374	Radiator	1
2	402676	Filler Cap	1
3	103128	Mounting	4
4	100537	Bolt 1/2 - 13 UNC x 3 1/4	1
5	500360	Washer	3
6	100616	Locknut 1/2 - 13 UNC	3
7	200438	Hose	1
8	100058	Clamp	4
9	104416	Hose	1
10	101311	Swivel Adaptor	2
11	103559	Bolt Carriage 1/2 - 13 UNC x 2 1/4	2
12	101045	Drain Cock	1

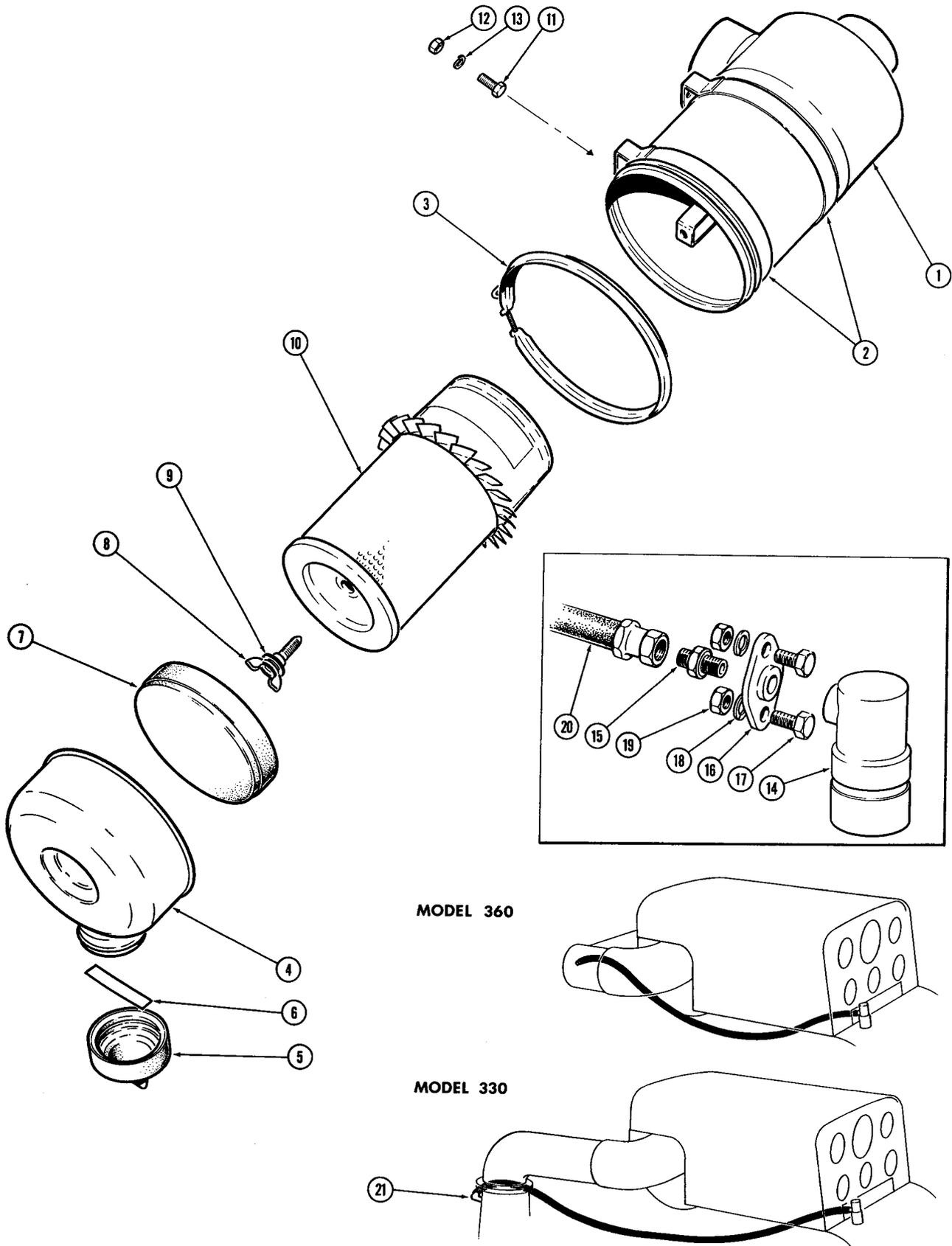


1484

Fig. 6-G Radiator Assembly - Model 360

RADIATOR ASSEMBLY - MODEL 360

ITEM	PART No.	DESCRIPTION	QUANTITY
1	104334	Radiator	1
2	402676	Filler Cap	1
3	103128	Mounting	4
4	100537	Bolt 1/2 - 13 UNC x 3 1/4	1
5	500360	Washer	3
6	100616	Locknut 1/2 - 13 UNC	3
7	501279	Hose Assembly	1
8	100059	Hose Clamp	2
9	103477	45° Elbow 3/4 NPT x 3/4 JIC	2
10	103559	Bolt, Carriage	2



1291

Fig. 7-G Air Cleaner Assembly



AIR CLEANER ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
	500903	Air Cleaner Assembly Complete - Comprises Items 1 thru 10	
1	501037	Body	1
2	404299	Mounting Band	2
3	404300	Clamp Assembly	1
4	404301	Vacuator Cup Assembly	1
5	404290	Vacuator Valve	1
6	404291	Guard	1
7	404302	Baffle Assembly	1
8	404303	Thumb Screw	1
9	404304	Gasket	1
10	403836	Element Assembly - includes Item 9	1
11	103772	Bolt	4
12	103788	Nut	4
13	100073	Lockwasher	4
	404296	Service Indicator Assembly-comprises Items 14 and 15	
14	404297	Service Indicator	1
15	404298	Safety Filter Fitting	1
16	103420	Elbow	1
17	500714	Pipe Connector	1
18	103421	Locknut	3



AIR CLEANER ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
19	103568	Hose	1
20	101083	Elbow	1

SECTION—H

FUEL LINES





FUEL LINE ASSEMBLY

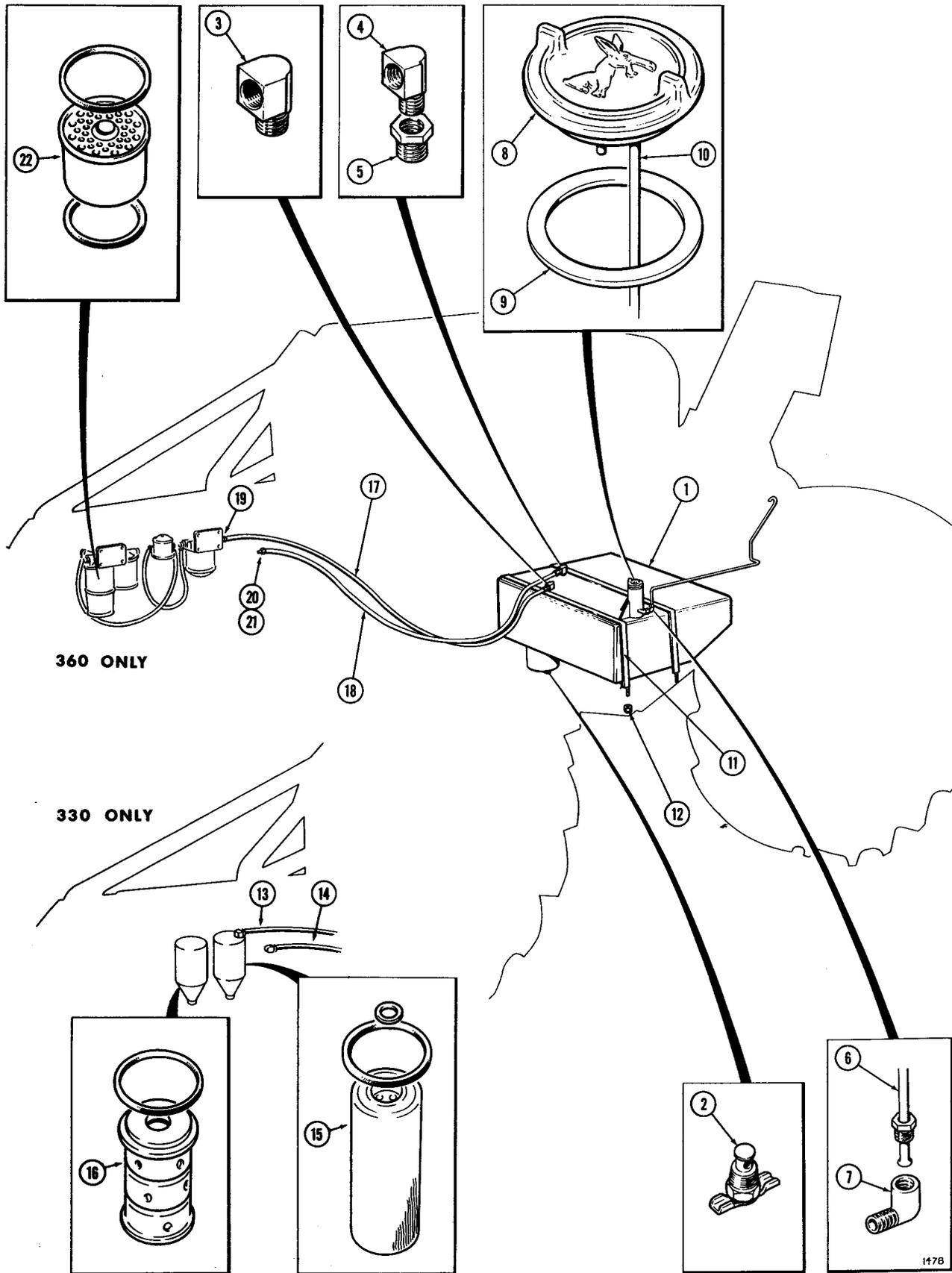


Fig. 1-H Fuel Lines



FUEL LINE ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
	500522	Fuel Tank Assembly (Comprises Items 1-5)	1
1	500507	Fuel Tank	1
2	101045	Drain Cock	1
3	100900	Connector	2
4	101031	Connector	2
5	100592	Reducer	1
6	500687	Breather Pipe	1
7	100638	Elbow	1
	500307	Fuel Cap Assembly (Comprises Items 8-10)	1
8	204208	Fuel Cap	1
9	101755	Gasket	1
10	500322	Dip Stick	1
11	500518	Hold Down	2
12	100060	Locknut	4
13	103147	Hose, Supply - Model 330	1
14	103146	Hose, Return - Model 330	1
15	403104	Filter Element - Model 330	1
16	403103	Filter Element - Model 330	1
17	104075	Hose, Supply - Model 360	1
18	104074	Hose Return - Model 360	1
19	104076	Connector	1



FUEL LINE ASSEMBLY

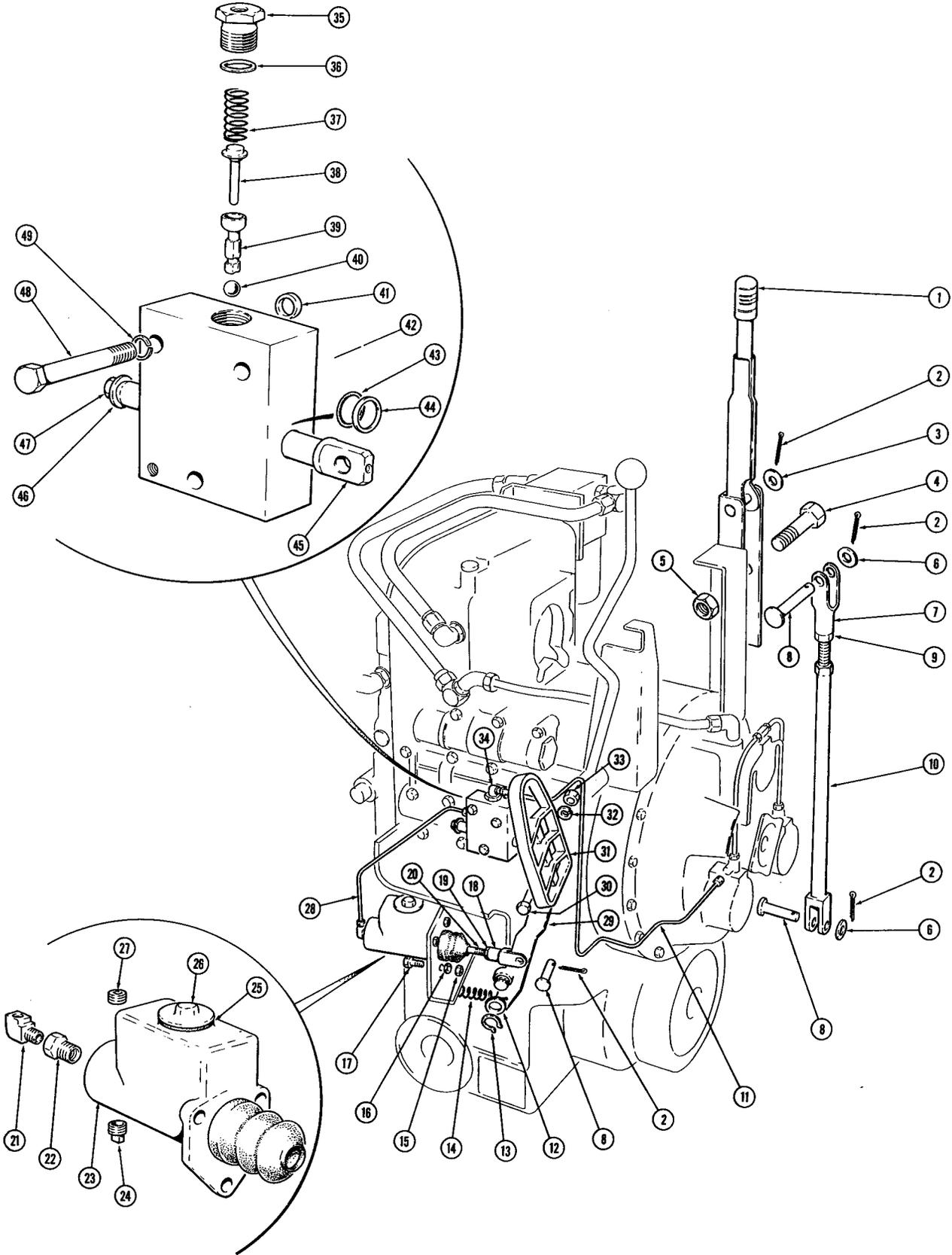
ITEM	PART No.	DESCRIPTION	QUANTITY
20	405341	Tube Nut	1
21	405342	Tube Sleeve	1
22	404050	Filter - Model 360	2

SECTION—I
BRAKE SYSTEM





BRAKE LINE ASSEMBLY



1480

Fig. 1-I Brake Line Assembly



BRAKE LINE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
1	500782	Handle Assembly	1
2	101189	Cotter Pin	4
3	100433	Plain Washer 1/4	1
4	102050	Bolt 5/16-UNC x 2	2
5	102088	Nut 3/4 - 18 UNC	2
6	100434	Plain Washer 5/16	3
7	100986	Yoke End	1
8	100987	Clevis Pin	3
9	100518	Nut 5/16	1
10	500805	Push Rod Assembly	1
11	501381	Brake Line, Brake Lock to Transmission	1
12	103289	Thrust Washer	1
13	103288	Snap Ring	1
14	102811	Spring	1
15	102889	Nut 3/8	3
16	100064	Washer 3/8	3
17	100224	Bolt 3/8 NC x 1 1/2	3
18	500778	Female Yoke	1
19	100524	Jam Nut 1/2 - 20 UNC	1
20	500647	Push Rod	1
21	100581	Elbow	1



BRAKE LINE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
22	100659	Reducer	1
23	200362	Master Cylinder	1
24	100626	Plug	1
25	402842	Gasket	1
26	402841	Filler Cap	1
27	100689	Plug	1
28	501380	Brake Line, Master Cylinder to Brake Lock	1
29	500479	Brake Arm	1
30	100254	Bolt 1/2 - 13 UNC x 2	2
31	500101	Brake Pedal	1
32	100024	Lockwasher - 1/2	2
33	102091	Nut 1/2 - 13 UNC	2
34	100638	Elbow	1
35	104012	Plug	1
36	104014	Gasket	1
37	104013	Spring	1
38	104010	Valve Stem	1
39	104011	Valve	1
40	104018	Steel Ball	1
41	501077	Spacer	3
	501445	Brake Valve Assembly	1



BRAKE LINE ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
42	501074	Body, Brake Valve	1
43	104016	'O' Ring	1
44	104017	Back-Up Ring	1
45	501075	Shaft, Brake Valve	1
46	100064	Flat Washer	1
47	104198	Nut 3/8 - 24 UNF	1
48	100231	Bolt 3/8 - 16 UNC x 4	3
49	100026	Lockwasher 3/8	3



SECTION—J
DRIVE SHAFTS





DRIVE SHAFT ASSEMBLY

1281

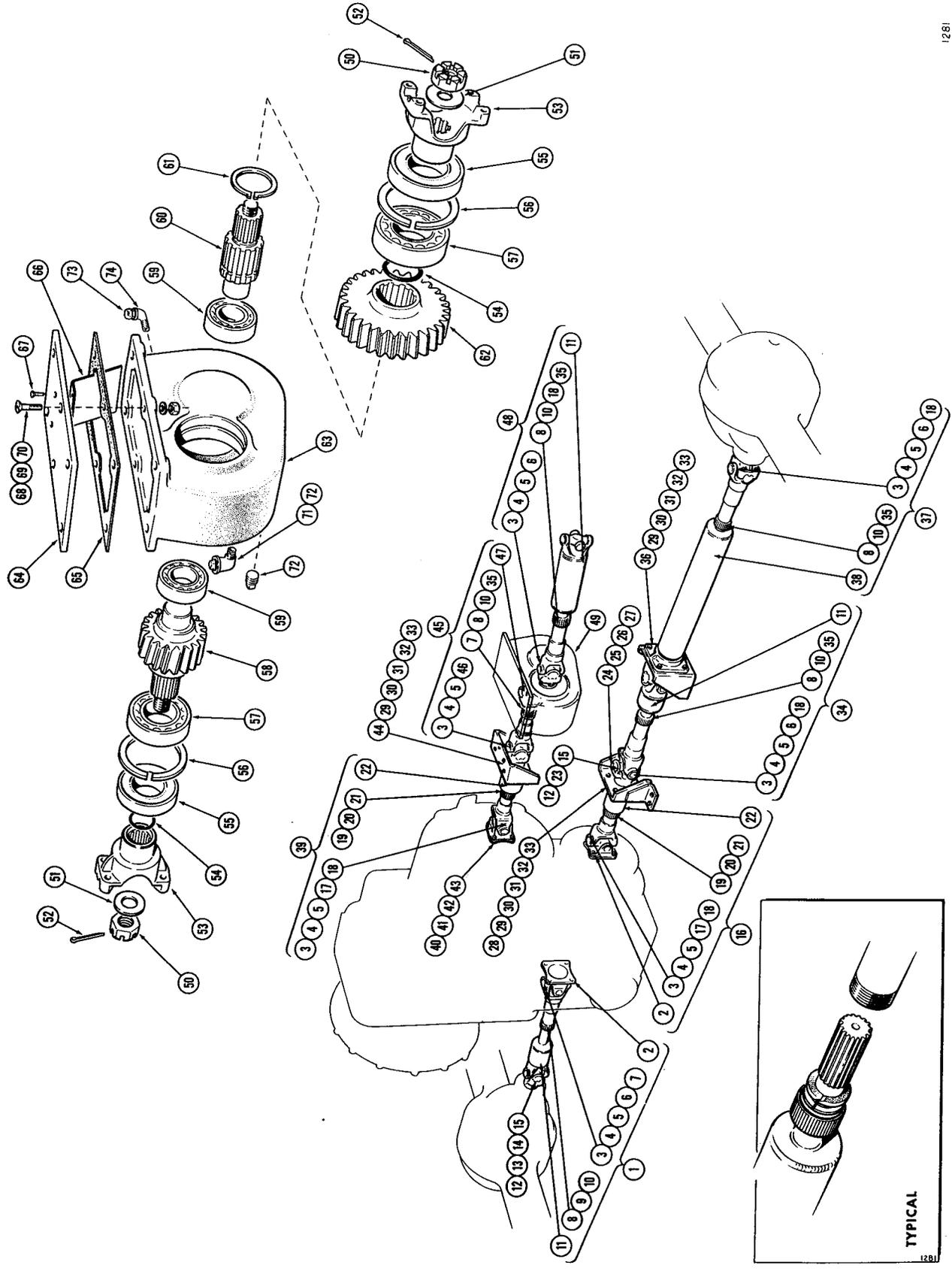


Fig. 1-J Drive Shaft Assembly



DRIVE SHAFT ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
1	103068	Drive Shaft Assembly	1
2	403278	Flange Yoke	2
3	403186	Cross and Bearing Assembly (Includes Item 4)	12
4	403178	Seal	48
5	401744	Snap Ring	12
6	401756	Slip Stub Yoke	4
7	404273	Extra Short Grease Fitting	1
8	403775	Dust Cap	4
9	404274	Cork Washer	1
10	401750	Steel Retaining Ring	4
11	450221	Spline Tube and Yoke Assembly	3
12	101853	"U" Bolt Assembly	16
13	103271	Bolt 1/2 - 20 UNF x 1 1/2	4
14	100652	Nut 1/2 - 20 UNF	8
15	100024	Lockwasher 1/2	8
16	103065	Drive Shaft Assembly (Includes Items 2, 3, 4, 5,)	1
17	401780	Slip Yoke	2
18	404279	Grease Fitting	5
19	401738	Dust Cap	2
20	401754	Cork Washer	2



DRIVE SHAFT ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
21	401747	Steel Retaining Ring	2
22	450219	Tube and Spline Assembly	2
23	100925	Bolt 1/2 - 20 UNF x 1	4
24	200082	End Yoke	2
25	200081	Washer 3/4	2
26	200078	Bolt 3/4 - 16 UNF x 1 1/2	2
27	200079	Lockwasher 3/4	2
28	500492	Bracket Assembly	1
29	103062	Flange Bearing	3
30	100242	Bolt 1/2 - 13 UNC	12
31	100060	Locknut 1/2 - 13 UNC	12
32	100276	Bolt 5/8 - 11 UNC x 2 1/4	12
33	100551	Locknut 5/8 - 11 UNC	12
34	103066	Drive Shaft Assembly (Includes items 3, 4, 5, 6, 8, 10, 11, 18)	1
35	401751	Cork Washer	3
36	500498	Bracket Assembly	1
37	103067	Drive Shaft Assembly - Model 330 (Includes Items 3, 4, 5, 6, 8, 10, 18, 13)	1
	104383	Drive Shaft Assembly - Model 360 (Includes Items 3, 4, 5, 6, 8, 10, 18, 13)	1
38	450220	Spline Tube and Yoke Assembly - Model 330	1
		Spline Tube and Yoke Assembly - Model 360	1



DRIVE SHAFT ASSEMBLY			
ITEM	PART No.	DESCRIPTION	QUANTITY
39	103060	Drive Shaft Assembly (Includes Items 3, 4, 5, 17, 18, 19, 20, 22)	1
40	401760	Flange Yoke	1
41	100051	Bolt 7/16 - 14 UNC x 1 1/4	4
42	100463	Nut 7/16 - 14 UNC	4
43	100053	Lockwasher 7/16	4
44	500730	Bracket	1
45	200075	Drive Shaft Assembly (Includes Items 3, 4, 5, 7, 8, 10, 35)	1
46	404280	Yoke	1
47	402674	Slip Yoke	1
48	103064	Drive Shaft Assembly (Includes Items 3, 4, 5, 8, 7, 10, 11, 18, 35)	1
49	104438	Reduction Box Assembly	1
50	103997	Slotted Nut	2
51	100438	Washer	2
52	101681	Cotter Pin	2
53	405425	End Yoke	2
54	405426	Ring (Rubber)	2
55	405427	Oil Seal	2
56	104503	Internal Retaining Ring	2
57	104501	Ball Bearing	2
58	405418	Gear	1



DRIVE SHAFT ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
59	104502	Ball Bearing	2
60	405419	Shaft	1
61	104504	External Retaining Ring	1
62	405420	Gear	1
63	405421	Reduction Box	1
64	405422	Cover	1
65	405423	Gasket	1
66	405424	Baffle	1
67	104507	Rivets	2
68	102426	Bolt	2
69	100026	Lockwasher	2
70	100875	Nut	2
71	100628	Elbow	1
72	100679	Plug	2
73	104508	Airvent	1
74	101219	Elbow	1

SECTION—K

WINCH



HERCULES WINCH

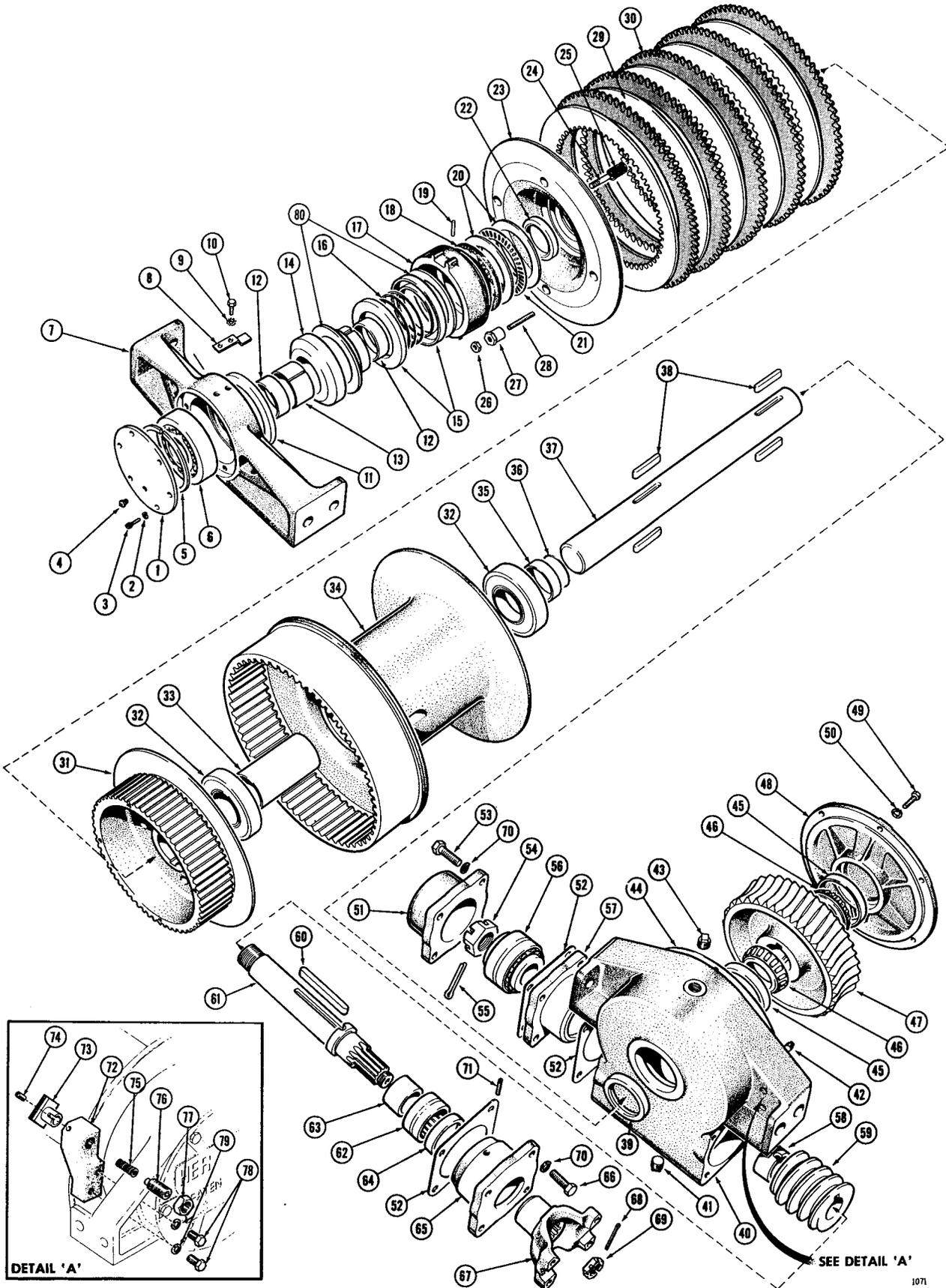


Fig. 1-H Hercules Winch Assembly



HERCULES WINCH (16. 5:1 Ratio, Positive Preload on Worm Bearings)			
ITEM	PART No.	DESCRIPTION	QUANTITY
	101711	Winch Assembly Complete	
1	200218	Bearing Leg Cap	1
2	200260	Lockwasher	6
3	200259	Capscrew	6
4	200258	Grease Zerk	1
5	200220	Bearing Spacer Ring	1
6	200239	Bearing Leg Bearing	1
7	200205	Bearing Leg	1
8	200214	Cylinder Lock	1
9	200262	Lockwasher	2
10	200261	Capscrew	2
11	200231	Alignment Ring	1
12	200225	Piston Bushing	2
13	200240	Bushing Spacer	1
14	200208	Clutch Piston	1
15	101726	Piston Cup	2
	101963	Strip Packing (Required with Item 15)	1
16	200216	Cup Spring	1
17	200207	Clutch Cylinder	1
18	200237	Felt Ring	1
19	200224	Piston Pin	1
20	200257	Bearing Race	2
21	200256	Thrust Bearing	1



HERCULES WINCH
(16. 5:1 Ratio, Positive Preload on Worm Bearings)

ITEM	PART No.	DESCRIPTION	QUANTITY
22	200236	Pressure Plate Seal	1
23	200202	Clutch Pressure Plate	1
24	200221	Spring Stud	8
25	200217	Stud Spring	8
26	100524	Jam Nut 1/2" - 20 N. F	4
27	200271	Support Stud Bushing	4
28	200272	Support Stud	4
29	200215	Drive Plate	5
30	200211	Clutch Plate	5
31	200204	Clutch Back-Up Plate	1
32	200235	Drum Bearing	2
33	200229	Bearing Sleeve	1
34	200203	Drum	1
35	200230	Bearing Spacer	1
36	200233	Spacer "O" Ring	1
37	200210	Drum Shaft	1
38	200267	Gear Key	4
39	200234	Housing Seal	1
40	200206	Worm Housing	1
41	200251	Drain Plug	1
42	200252	Level Plug	1
43	200253	Filler Plug	1



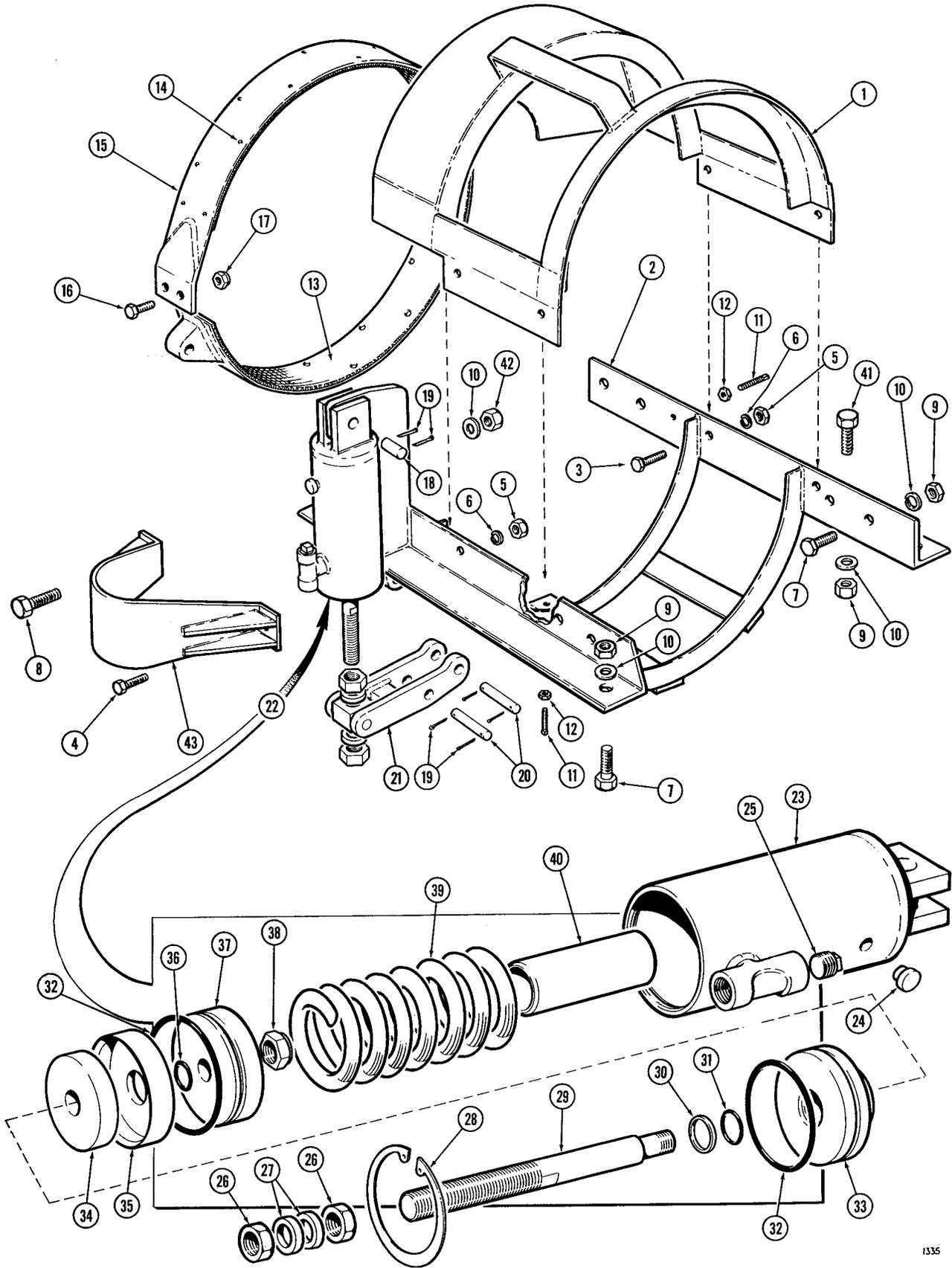
HERCULES WINCH (16. 5:1 Ratio, Positive Preload on Worm Bearings)			
ITEM	PART No.	DESCRIPTION	QUANTITY
44	200226	Cover Gasket 1/32"	As Req'd
	200227	" " 1/64"	As Req'd
	200228	" " .006"	As Req'd
45	200255	Shaft Bearing Cup	2
46	200232	Shaft Bearing Cone	2
47	206103	Worm Gear L. H.	1
48	200201	Worm Gear Housing Cover	1
49	200264	Capscrew	6
50	200266	Lockwasher	6
51	206232	Bearing Container Cap	1
52	206239	Bearing Container Gasket 1/32"	3
53	100242	Capscrew 1/2" - N. C. x 2" (GR. 5)	4
54	101813	Nut	1
55	101812	Cotter Pin	1
56	206235	Bearing Assembly	1
57	206231	Bearing Container	1
58	200213	Worm Spacer	1
59	206104	Worm	1
60	206234	Worm Key	1
61	206430	Worm Shaft	1
62	206240	Roller Bearing	1
63	206233	Race - Bearing Inner	1
64	206236	Seal	1



HERCULES WINCH (16.5:1 Ratio, Positive Preload on Worm Bearings)			
ITEM	PART No.	DESCRIPTION	QUANTITY
65	206238	Bearing Container	1
66	100050	Capscrew 1/2 " - NC x 1 1/2 (GR. 5)	4
67	206237	End Yoke	1
68	200303	Cotter Pin	1
69	200300	Worm Shaft Nut	1
70	100024	Lockwasher	8
71	101802	Setscrew 1/4" - 20 NC x 5/8 Long	1
72	210377	Bracket	1
73	210548	Bracket Shoe	1
74	210549	Pin	1
75	210550	Spring	1
76	210551	Drag Brake Adjusting Screw	1
77	100527	Jam Nut	1
78	200264	Capscrew	2
79	200266	Lockwasher	2
80	103479	Leather Back-up Washer	2



WINCH GUARD AND BRAKE ASSEMBLY



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Fig. 2-K Winch Guard and Brake Assembly



WINCH GUARD AND BRAKE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
1	206073	Upper Winch Guard	1
2	500327	Lower Winch Guard	1
3	100241	Bolt 1/2 - 13 UNC - 1 3/4	3
4	100243	Bolt 1/2 - 13 UNC - 2 1/4	1
5	102091	Nut 1/2 - 13 UNC	4
6	100077	Washer 1/2	4
7	100295	Bolt 3/4 - 10 UNC 2	9
8	100297	Bolt 3/4 - 10 UNC 2 1/4	1
9	102093	Nut 3/4 - 10 UNC	11
10	100437	Washer 3/4	12
11	103664	Set Screw 1/2 - 13 UNC - 1 1/2	2
12	100523	Jam Nut 1/2 - 13 UNC	2
		Brake Band Assembly (Fitted)	1
13	202288	Brake Lining	1
14	100106	Rivet	25
15	213106	Brake Band	1
16	100941	Bolt	2
17	101055	Locknut 5/8 - 18 UNF	2
18	213086	Pin	1
19	100046	Cotter Pin	6
20	200484	Pin	2



WINCH GUARD AND BRAKE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
21	206133	Arm Assembly	1
22	213104	Cylinder Assembly	1
23	213103	Housing Assembly	1
24	101239	Breather	1
25	100107	Plug	1
26	100531	Jam Nut	2
27	206150	Spacer	2
28	101628	Retaining Ring	1
29	206135	Shaft	1
30	101732	Rod Scraper	1
31	100710	'O' Ring	1
32	103523	'O' Ring	1
33	206132	Gland	1
34	205500	Follower Plate	1
35	102774	Piston Cup	1
36	100101	'O' Ring	1
37	205501	Spring Holder	1
38	100096	Locknut 5/8 - 18 UNF	1
39	101626	Spring	1
40	205561	Cylinder Stop	1
41		Bolt	2



WINCH GUARD AND BRAKE ASSEMBLY

ITEM	PART No.	DESCRIPTION	QUANTITY
42		Nut	1
43	501029	Guard	1

