

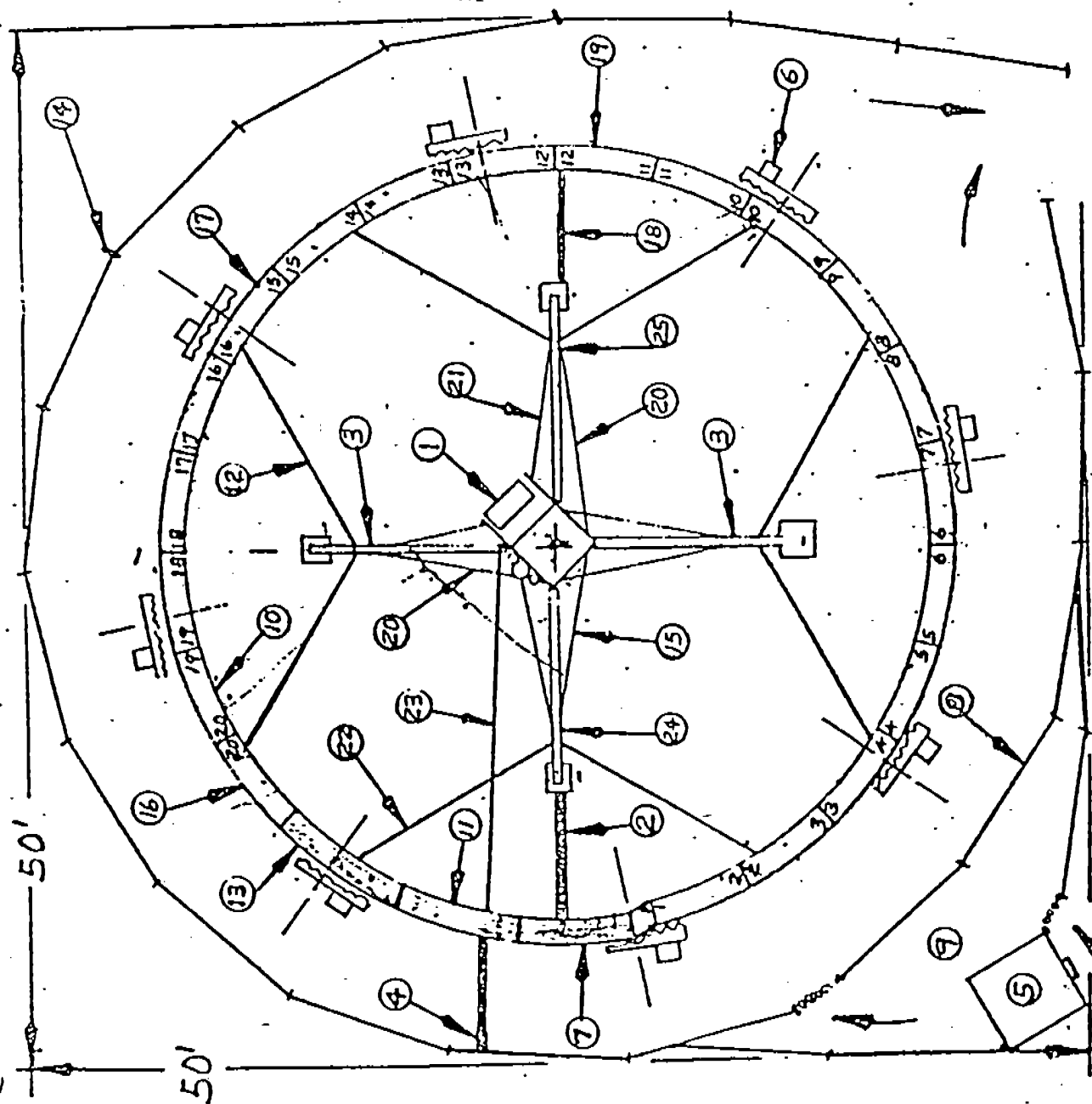
MFG: AERO AFFILIATES
NAME: FLYING COASTERS
TYPE: NON-KIDDIE

HIMALAYA TYPE RIDE

FLYING COASTER

Aerofaffiliates

- 1 GASOLINE ENGINE OR ELECTRIC MOTOR
- 2 SMALL MUDSILL
- 3 LARGE MUDSILL
- 4 CONTROL
- 5 TICKET BOOTH
- 6 STEP
- 7 JUMP RAMP
- 8 FENCE 23-PLACES
- 9 BULL PEN
- 10 SHORT TRACK
- 11 CENTER RAMP
- 12 RADIUS ROD 7-PLACES
- 13 APPROACH RAMP
- 14 FENCE FEET 25-PLACES
- 15 MUDSILL ROD MEDIUM
- 16 TRACK WITH RADWS ROD
- 17 ATTACHMENT 4-PLACES
- 18 TRACK WITH RADIUS ROD
- 19 ATTACHMENT 3-PLACES
- 20 SHORT RADIUS ROD
- 21 TRACK WITH SHORT RADIUS ROD ATTACHMENT
- 22 MUDSILL ROD LONG
- 23 MUDSILL ROD SHORT
- 24 RADIUS ROD WITH GUIDE
- 25 LOOP FOR CONTROL ROD
- 26 CONTROL ROD
- 27 LARGE MUDSILL WITH ATTACHMENT FOR SMALL MUDSILL
- 28 LARGE MUDSILL WITH CUT-OUT IN UPPER END



SUGGESTED SET UP

MIDWAY

OPERATION CHECK LIST
FOR
ELECTRIC MOTOR & WICHITA AIR CLUTCH

After Ride is erected and all electric connections are made, use the following check procedure:

- (1) Check air valve to assure it is in off position.
- (2) Push motor start button, and then push stop button. The period of electric contact should be only long enough to spin the motor to where it is turning in the proper direction. The motor, sheave and clutch should be turning counter clockwise to the operator. If motor is turning in wrong direction, interchange connection points of any two motor lead wires in the motor control box.
- (3) With electrical system properly installed and motor rotating in proper direction, push motor start button and allow air pressure to build to 80 to 100 PSI. If pop off valve does not relieve at this pressure, then shut motor off to prevent build up of excess pressure. Adjust pop off valve to relieve at 80 to 100 PSI.
- (4) To start Ride:
 - (a) Release brake by pushing forward on control lever until lower pin in lever engages slot in lock pedal.
 - (b) Operate air valve by applying approximately 20 PSI of air to system, hold this setting until ride has gained momentum, then open air valve all the way.
- (5) To stop Ride:
 - (a) Step on lock pedal to release control lever; hold lever forward. Shut air valve. Apply brake by pulling control lever all the way back.
- (6) For service and parts information on Wichita Air Clutch, see page 26 and page 27 in Manual. For service on Ward's Air Pump, see Owner's Guide.

FLYING COASTER LUBRICATION INSTRUCTIONS

HOW TO LUBRICATE

WHERE TO LUBRICATE	HOW MANY PLACES	TYPE OF LUBRICANT RECOMMENDED	WHEN TO LUBRICATE	HOW TO LUBRICATE
Upper Main Center Column Bronze Bearing	2 Zerk Fittings out side of Bearings Collar	Gulflex Moly or equivalent	Once a day for light operation, Twice a day for heavy operation.	With grease gun until grease squeezes out on edge of bearing.
Lower Main Center Column Ball Bearing	1 Zerk Fitting on side of center cage at bottom	Gulflex Moly or equivalent	Once a week	About 3 to 5 shots with grease gun
Sweep Pillow Blocks	1 Zerk Fittings on each pillow block	Gulflex Moly or equivalent	Once a day	With grease gun until grease squeezes out
Hydraulic Cylinder Attaching Bushings	3 Zerk Fittings on upper cyl., mounting, 1 or 3 at piston rod end	Gulflex Moly or equivalent	Once or twice daily	With grease gun until grease squeezes out
Right Angle Drives	One filler plug each	SAE #90 Multi-Purpose gear lube	Check weekly	Fill to level of filler plug, drain and refill once a year.
Left Angle Drives	Zerk Fitting for top bearing (where in-stalled)	Gulf Crown grease #2 or equivalent	Once a week	2 to 3 shots with grease gun
Ball bearing Pillow Blocks on Wheel Yokes (all suspension only)	1 Zerk Fitting on each of 16 bearings	Gulf Crown grease #2 or equivalent	Once every two months	2 to 3 shots with grease gun
Ball bearing Pillow Blocks on Jack Shaft & bottom of right angle drives	1 Zerk Fitting on each of 6 bearings	Gulf Crown grease #2 or equivalent	Once a month	2 to 3 shots with grease gun; overfillings may make bearings run hot
Sweep Wheels		Automotive front wheel bearing grease	Repack once a year	Remove wheel, clean out, repack

LUBRICATION INSTRUCTIONS CONTINUED: -2-

WHERE TO LUBRICATE	HOW MANY PLACES	TYPE OF LUBRICANT RECOMMENDED	WHEN TO LUBRICATE	HOW TO LUBRICATE
Ramp	Entire wheel contact surface	Dixon's #95 Graphkote	Whenever existing layer wears thin	Brush on and let dry before operating
Drive Chain	Entire length	#10 Motor oil, Industrial lube oil or light grease	Whenever chain appears dry	Wipe on with rag. For longer chain life, periodic removal of chain, and soaking in light oil is recommended
Electric Motor Bearings	Where provided with grease fittings or plugs	Gulf Crown grease #2 or equivalent	Once every 6 mos.	2 shots with grease gun, do not over fill
Gasoline Engine		Lubricate and service as per engine hand book		
Refrigerator Fan on International Engine	One fitting	Gulf Crown grease #2 or equivalent	Once a week	2 shots with grease gun
Wichita Air Clutch	Shaft ball bearings	Automotive front wheel bearing grease	Once a year or when bearing noise indicates lack of grease	Remove clutch assembly from Jack Shaft, clean out old grease, repack about 1/3 full, reinstall
Rotary Air Coupling on Clutch	One oil cup	#10 Motor oil or Industrial lube oil	Once a day	Fill cup with oil can
Air Compressor	Filler Plug	#30 Motor oil	When level is low in sight glass	Fill to indicated level
Twindisc Torque Converter	Filler Neck	#10 Heavy duty Motor oil	When low on dipstick. Check daily	Fill to level of mark on dipstick
Funk Torque Converter	Filler Neck	Automatic transmission fluid type A	When low on dipstick. Check daily	Fill to level of mark on dipstick
Hydro-Sheave on Electric Motor	One Filler plug	#10 Heavy Duty Motor oil	When slippage becomes excessive. Drain and refill once a year	Turn until top mark is one inch off top dead center in direction of filler plug. Fill to level of plug. If oil level is too high, permit excess to drain off. Too much oil reduces required slippage.

LUBRICATION INSTRUCTIONS CONTINUED: -3-

WHERE TO LUBRICATE	HOW MANY PLACES	TYPE OF LUBRICANT RECOMMENDED	WHEN TO LUBRICATE	HOW TO LUBRICATE
Self-Contained Hydraulic Cylinders part 9620. This is a duplication of information on drawings of cyl. as supplied with cyls.	One per cylinder	Automatic transmission fluid type A	In case of leakage at the packing gland oil level should be checked as often as loss of oil seems to indicate. Otherwise check once a week.	With sweep on level track, remove both filler plug in upper cylinder barrel. Fill through upper plug until oil overflows. Reinstall plugs
Disregard items which duplicate model changes do not apply. AEROAFFILIATES, INC. Fort Worth, Texas				

PART NO. 1020 HYDRAULIC CYLINDER Installation and Maintenance Instructions

- (1) When not in use, it is recommended to remove the cylinders from rids and store in boxes provided for that purpose. This prevents damage to fins and highly polished piston rods.
- (2) Cylinders must be installed with filler plugs and handle up. Under no circumstances must force be used to align piston rod with pull rod fittings.
- (3) Oil used in the cylinders is automotive automobile transmission fluid Type A, Suffix A. A full charge is approximately 5-1/2 quarts. Fluid level should be checked frequently in the following manner. Sweep of cylinder to be checked should be on flat track, not on ramp.

Remove both plugs from upper cylinder barrel. Loosen plug in upper flange of lower (finned) barrel only enough to let trapped air escape. Tighten this plug again as soon as oil starts flowing.

Then bring up oil level in upper cylinder, which acts as reservoir, to the lower plug opening by filling through upper hole. Install plugs tightly.

WARNING:

- Never add oil through hole in flange of lower cylinder. All oil must be supplied from reservoir in upper cylinder in order to be filtered. Do not use any oil other than what is specified.
- In case the sweeps suffer from too much of an initial drop, this may be due to an accumulation of air in lower barrel, which can be bled out as previously described through plug in upper flange of lower cylinder.
- After a certain length of service it may become necessary to replace the "O" ring seals and dust wipers in the packing glands. This is done as follows:

Cylinders need not be removed from rids. Loosen lock nut at piston rod end. Remove large lock ring holding bronze packing gland in cylinder end with needle nose pliers or #5 TruArc pliers as supplied in later tool kits. Push packing gland out of cylinder through holes in cylinder end provided for that purpose. Pull pin holding rod end to pull rod fitting, tend unscrew rod end and lock nut. Take note of amount of engagement between rod end and piston rod, so that you will re-install it in same position.

Slide packing gland off piston rod. "O" ring must now be removed and replaced in ~~the~~ ^{the} fallen back-up ring in "O" ring groove must be towards outer end of cylinder.

To remove and replace dust wiper, it is only necessary to remove smaller lock ring in end of gland. If felt packing appears to be worn it should also be replaced. Re-install by reversing this procedure.

It should never become necessary to replace large "O" ring which seals gland in cylinder head. Be sure it is not omitted when re-installing gland.

Spare "O" rings can be supplied by us or the nearest industrial supply dealer.

The small "O" ring is part No. AN6227-B24

The large "O" ring is part No. AN6227-830

The dust wiper is Chicago Rawhide #206-G110

The large lock ring is TruArc #5000-300

The small lock ring is TruArc #5000-206

Felt washer is our part No. 8687-14

- (6) Always keep bushings at upper end of cylinder, and at piston rod end well lubricated.
- (7) Straighten damaged cylinder cooling fins, so that cooling effect is not reduced.
- (8) Fluid in cylinders should be changed at least once each year, more often if subject to very heavy and prolonged use.

AEROAFFILIATES, INC.

SPECIAL INSTRUCTIONS

It is not necessary to disassemble this assembly from item 3 when moving rids.

This yoke assembly shown is for 1959 & 1960 models only. Fitting for air supply to Firestone #22 air bag is located in the center tube of this assembly. To find leader, raise air pressure to 50 lbs., apply soap suds liberally to entire yoke assembly and air bag.

The sweep assembly shown is used on 1959 & 1960 models only. When disassembling rids be sure that bolts through pillow blocks which hold sweeps are tight. Check periodically.

Step assembly shown here is used on 1959 & 1960 models only. Check at least twice a day to ensure that all fasteners, bolts, etc., are secure.

Check at least twice a day to ensure that all fasteners, bolts, etc., are secure.

Lubricate surfaces where wheel runs with Dixson Grapholite #95.

Lubricate surfaces where wheel runs with Dixson Grapholite #95.

Lubricate surfaces where wheel runs with Dixson Grapholite #95.

When referring to track sections use basic number & Section 1 through 20. Sections are steel stamped. Assemble with numbers matching 1 to 1, 2 to 2, 3 to 3, etc.

Must be closed & latched prior to starting rids.

Remove from safety bar and clean with carbon jet twice a year, or if plunger is sticking, use dry lube only.

This is the assembly of item 10 and item 11 combined.

ITEM NO.	QTY.	DESCRIPTION
1	8	A-Frame Assembly
2	8	Yoke Assembly
3	8	Sweep Assembly
4	8	Step Assembly
5	8	Seat Assembly
6	1	Approach Ramp
7	1	Center Ramp
8	1	Jump Ramp
9	20	Track
10	8	Safety Bar
11	8	Safety Lock
12	8	Safety Bar & Lock Assembly

SPECIAL INSTRUCTIONS

When setting up rids, carrier cage casters must fit clear of ground by 1/4" Min. Grease fitting for lower carrier column bearing is located on front lower side of this unit. See grease chart.

Match rod end numbers (steel stamped) with numbers stamped on attach fittings at mudrills & track sections.

Attach to center cage slides & mudrills.

Attach to center cage engine mount & mudrill.

After attaching to center cage-block up under mudrills to float carrier cage casters 1/4" min. above ground.

Adjust up or down in holes provided at ramp & mudrill to move top of ramp in or out.

Wheels should be removed and repacked at the beginning and in mid-season. Repack with heavy duty wheel bearing grease. When tires wear down on one side, remove wheel assembly, press tire off & press back on in opposite direction. The wheel assembly shown is used on 1959 & '60 models only.

Apply coat of light oil to piston rod minimum of (1) time per day. Cylinder shown used on 1959 & early '60 models only.

Check a minimum of (1) time per day to ensure proper attachment.

Grease one end of Pull Rod connections a minimum of (2) three times per week.

Check periodically to ensure that all nuts are tight.

Basic use is to release or apply brake when starting & stopping rids.

Limits travel of yoke assembly on 1959, 1960 & '61 models.

NO.	QTY	PART NO.	DESCRIPTION
13	1	9613	Carrier Cage
14	8	8614	Radius Rod
15	6	8615	Mudrill Rod-Long
16	2	8616	Mudrill Rod-Short
17	4	9617	Large Mudrill
18	1	9618	Small Mudrill
19	8	8619	Wheel
20	8	8620	Hydraulic Cylinder
21	8	8621	Floorboard
22	8	8622	Pull Rod
23	4	8623	Gear Box Support Plate
24	1	8624	Lever Mechanism
25	1	8625	Brake Drum
26	16	8626	Stop Rod

SPECIAL INSTRUCTIONS

Be sure that these bolts are properly installed and secure at all times when ride is assembled, check a minimum of twice daily.

Periodic checking to ensure all bolts & nuts are tight.

Pillow blocks (16) and hydraulic cylinder support legs (8), See Lubrication chart.

See Lubrication chart very important to keep properly lubricated.

See Lubrication chart. Check and replenish oil level at each greasing.

Keep clean and free of grease.

Keep clean and free of grease.

Keep tight and secure from oil or air leaks. Not used with 9620 self contained cylinders.

After pressing bushings into cylinder head, remove tube fitting and drill 1/8 through bronze bush.

Used on 8620 & 8687 cylinder assemblies on 1959 & 1960 model tractors.

Used on 8620 cylinder assemblies only.

Keep adjusted to ensure good braking. Replace worn or oil soaked lining.

See Lubrication chart. Keep band on turnbuckle to prevent bolt slippage.

Periodic check to ensure linkage is secure.

Part 8640 Ride #58 & up adjust as necessary.

Install in upper cylinder head only. Use Partmaster #2 or equivalent non solvent resistant on threads.

Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
22	7, 24	8627	16	Main Gear Box Support	2		
23	13, 14	8628	1	Center Column Assembly	1		
29	5, 13, 14	8630	1	Bearing Housing	1		
30	3, 13, 20	8631	2	Right Angle Drive	2		
31	5	8632	1	Commutator Fingers	1		
32	5, 13	8633	1	Commutator Rings	1		
33	13, 14	8634	16	Pipe and Hose Adapter	16		
34	16, 17	8620-9	16	Brake Bushing Bunting #E597 1 3/8 O.D. x 1" I.D. x 1 1/4	16		
35	16	8620-27	8	Cylinder & Head Assembly Upper	8		
36	12	8637	1	Brake Shoes	1		
37	5	8638	2	Brake Lids	2		
38	12	8639	1	Brake Arm	1		
39	12	8640	1	Brake Rod Lever	1		
40	16	8620-23	8	Reducer Bushing	8		

SPECIAL INSTRUCTIONS

42	13	8642	2	Lug Gears
43	13	8643	4	Commutator Finger Bracket
44	5	8644	1	Outside Idler
45	12	8645	1	Brake Lever
46	12	8646	1	Adjusting Rod
47	12	8647	2	Orifices
48	16	8620-17	8	Caster
49	5, 14	8649	4	Jack Shaft
50	12	8650	1	Pin
51	7	8651	8	-Pin
52	5, 8	8652	40	Prop Tube
53	5	8653	8	Pin
54	9, 11	8654	8	Pin
55	3, 5, 10	8655	9	Pin
56	13	8656	8	Pin
57	3, 5	8657	10	Pin
58	10, 12	8658	10	Spring
59	7, 8, 9	9626	63	Safety Key

See Lubrication Chart.

Periodic check to ensure linkage is secure.

Periodic check to ensure linkage is secure.

Install in lower cylinder head only. Use Permatex #2 or equivalent; non soluble sealant on threads.

Float center until all 4 casters clear ground level by a min. of 1/4".

Part #9650-1 Rido #58 & up -9650-1 must be used with Allis Chalmers engine conversion.

Used on 1959 & 1960 models only. Not used with 9620 cylinders.

Used on seat safety bar, and outside idler.

After rido is set up, check thoroughly to ensure these safety keys are installed.

SPECIAL INSTRUCTIONS

NO.	QTY.	NO.	NO.	NO.	DESCRIPTION	INSTRUCTIONS
61	5	8613-26	4	8613-26	Safety Key	After ride is set up, check thoroughly to ensure safety keys are installed.
62	3, 5, 6, 9, 13	9834	60	9834	Blower Housing	Used in conjunction with Wisconsin engine or 40 h.p. elect. motor only 1959 & early 1960 models only.
63	13, 19	8662	1	8662	Impeller	Used in conjunction with Wisconsin engine or 40 h.p. elect. motor only 1959 & early 1960 models only.
64	18	8663	1	8663	Head Hydraulic Cylinder-Lower	Remove (2) set screws (Items 150) before turning cylinder head for removal. When replacing cylinder head, use care not to cross thread.
65	16	8620-12	8	8620-12	Key	When ride is set up, check to ensure this key is installed.
66	9	8665-1	1	8665-1	Piston Rod	Apply coat of light oil to exposed area of piston rods a min. of (1) time per day.
67	16	8620-7	8	8620-7	Piston	
68	16	8620-2	8	8620-2	Sweep Hinge Bearing	
69	5	8668	16	8668	Hub Cap	Keep well lubricated through Pillow Blocks on 8629 center column.
70	1, 39, 41	8669	8	8669	Brake Rod	Changed design rods #59 & up; interchangeable.
71	5	8670	1	8670	Lock Collar	
72	16	8620-4	8	8620-4	Collar - Valve	
73	16	8620-3	8	8620-3	Battery Case	
74	5, 12	8673	1	8673	Sleeve	
75	16	8620-11	8	8620-11		

SPECIAL INSTRUCTIONS

Recommend ordering replacement tires through Aero to obtain proper tire for your ride.

Maintain air pressure of 22 lbs.

Standard

Standard

Standard

Standard

Standard

Take out 4 bolts to remove bearing, rotate bearing housing 15°, use bolts as jack screws.

Order through Aeroaffiliates to ensure correct fit in Jack Shaft.

Order through Aeroaffiliates to ensure correct fit to drive shaft.

See parts list and manual prepared by Twin Disc Co., and furnished with ride.

See parts list and manual prepared by Wisconsin and furnished with ride.

Air Spacing Firestone

Gabriel Shock #57145

Rubber Stop Washer

Washer

Flexloc Nut 5/8-11

Flexloc Nut 5/8-11

Washer

Schrader Tank Valve #645A-6

1/2" Lock Washer and 1/2-13 x 2" Cap Screw

Bearing Sealmaster #MFC-31

Sheave

Sheave 9.4 P.D. (6) Groove

Twin Disc Clutch Co. Hydraulic Torque Converter Model 6-F-1303-3

Wisconsin Engine V84D

Std.

Std.

8602-115

8602-117

Std.

Std.

8602-116

Std.

Std.

Std.

Std.

Std.

Std.

Std.

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1,39

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1,39

1,39

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1

13

13, 27, 33

13, 18, 33

13

SPECIAL INSTRUCTIONS

Order through Aero to ensure proper length & matched set of 8 balts.

Order through Aero to ensure proper length & matched set of 5 balts.

Used on Wisconsin engine or electric motor in conjunction with twin disc torque converter and blower unit.

Order through Aeroaffiliates

Order through Aeroaffiliates

Order through Aeroaffiliates

When spares are required, order this Sheave from Aero.

V-Belt

V-Belt

Hose Coupling 3/4" Hydraulic Line 3/4" x 30" Street Ell 3/4"

3/4" x 3" NF Cap Screw & 3/4 NF Flexloc Nut

3/4 x 2 1/2 NF Cap Screw & 3/4 NF Flexloc Nut

5/8 x 2 1/4 NF Cap Screw & 5/8 NF Flexloc Nut

5/8 x 2 3/4 NF Cap Screw & 5/8 NF Flexloc Nut

1/2" Lock Washer & 1/2-13 x 1 1/4 Cap Screw

Chain Sprocket

Chain Sprocket

Chain

Washer 1"

Sheave

Link Belt Bearing #F-438

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

Std.

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SPECIAL INSTRUCTIONS

NO.	QTY.	UNIT	DESCRIPTION
118	Std.	1	3/4 x 2 1/2 NF Cap Screw & 3/4 NF Flexloc Nut
119	Std.	14	3/4 x 2 1/4 NF Soc. Hd. Cap Screw & 3/4 NF Flexloc Nut & 3/4 Washers
120	Std.	12	1"-14 Castellated Nut & 5/32 x 1 3/4 Cotter Key
121	Std.	12	1/2 x 1 1/2 NF Cap Screw & 1/2 NF Flexloc Nut
122	Std.	12	1/2-13 Hex. Nut
123	Std.	12	5/8-11 Hex. Nut
124	Std.	12	3/4 x 3 NF Cap Screw & 3/4 NF Flexloc Nut
125	Std.	5	1/2 x 2 1/4 NF Cap Screw & 1/2 NF Flexloc Nut
126	Std.	12	1/2-20 Castellated Nut & 3/32 x 1" Cotter Key
127	Std.	12	1/2 x 2 NF Cap Screw & 1/2 NF Flexloc Nut
128	Std.	5	Shore
129	Std.	12	Link Bolt Bearing F-428A
130	Std.	12	1/2 x 1 3/4 NF Cap Screw & 1/2 NF Flexloc Nut

Order through Aeroaffiliates to ensure correct fit to shaft.

When 9650-1 Link Shaft is used (1) Link Bolt F-440 is used in lieu of (1) F-428A on Rh. side.

SPECIAL INSTRUCTIONS

PLEASE

ITEM NO.	QTY	NO.	QTY	DESCRIPTION
131	5	Std.	16	5/32 x 1 1/8 Cotter Key
132	5	Std.	16	7/8-9 x 6" Hex. Hd. Cap Screw, 7/8-9 Hex. Nut & 7/8 Flat washer
133	5	Std.	16	7/16 x 2 1/4 NF Cap Screw & 7/16 NF Flexloc Nut
134	12	Std.	1	1/2 x 2 NF Cap Screw & 1/2 NF Flexloc Nut
135	14	Std.	6	5/8 x 7 NF Cap Screw & 5/8 NF Flexloc Nut
136	14	Std.	4	1"-8 Hex. Jam Nut & 1"-8 Hex. Nut
137	14	Std.	2	3/4 x 2 1/2 NF Soc, Hd. Cap Screw, 3/4" Washer & 3/4 NF Flexloc Nut
138	14	Std.	1	3/4 x 3 NF Cap Screw & 3/4 NF Flexloc Nut
139	12	Std.	6	Washer 1"
140	11	Std.	8	Hose Strato Flex 211-326-326- 10-33-0A
141	11	Std.	8	Hose Strato Flex 211-326-326- 10-18 1/4 OA
142	11	Std.	16	1/2" Hose Coupling
143	15	Std.	16	SXF W-07 Lock Washer

ITEM NO.			PART NAME		SPECIAL INSTRUCTIONS	
NO.	NO.	QTY.	QTY.	QTY.	QTY.	QTY.
144	15	Std.	16	SKF N-07 Nut	Located directly on top of Item 29 and directly on top of Item 79 beneath cap. Use (2) O-Rings on 1959 and 1960 rides. Remove these set screws prior to turning cylinder head in any direction.	
145	15, 41	Std.	8	National Oil Seal #55259		
146	15, 41	Std.	8	Timken Bearing Cone #444 Tyson Bearing Cup #432		
147	15, 41	Std.	8	Timken Bearing Cone #438 Tyson Bearing Cup #432		
148	5	Std.	8	3/4-10 Hex. Nut & 3/4" Washer		
149	13	Std.	2	Nation O-Ring #622780		
150	16, 17	Std.	2	Headless Self Locking Set Screw 1/4-20 x 1/4		
151	16, 17	8620-14	1	Locknut		
152	16, 17	8620-13	1	Rod End		
153	16, 17	8620-12 Std	1	Bronze Bushing 1 3/8 O.D. x 1" I.D. x 1 3/4"		
154	16	8620-25	1	O-Ring National #622747		
155	16	Std.	1	O-Ring AN62278-25		
156	16	Std.	1	O-Ring National #623007		
157	16	Std.	1	1/2" Arc Deep Ring #5000-262		
158	16	8620-16	8	Packling Gland		

1/83

SPECIAL INSTRUCTIONS

Part NAME

Qty. Unit

Part No.

159	16	8620-25	8	Bushing
160	16	8620-25	8	Felt Washer
161	16	8620-24	8	Dust Wiper
162	17	Std.	8	Ring Tru-Arc #5000-300
163	17	Std.	8	Ring Tru-Arc #5000-205
164	17	8687-4	8	Packing Gland
165	17	Std.	8	O-Ring AN6227B-24
166	17	Std.	8	Dirt Wiper-Chicago Rowhide #205 G 110
167	17	8687-14	8	Rod Wiper, Felt
168	17	Std.		O-Ring AN6227B-30
169	17	Std.		Bronze Bushing 1 5/16 I.D. x 1 7/8 O.D. x 4 1/2" Long
170	17	12	8	Cylinder & head assembly lower
171	17	13	8	Orifice
172	17	207 1	8	Piston Rod
173	17	13	3	Mastering Rod
174	17	8687-13		Lock nut
175	17	8687-10		Washer

Order from Aeroacffillates; this is a special item.

Apply coat of light oil to exposed surfaces once daily.

SPECIAL
INSTRUCTIONS

QTY	NAME	QTY	QTY	QTY
176	Piston Cup	0	17	17
177	Valve	8	17	8687-9
178	Cup Clamp	8	17	8687-11
179	Washer	8	17	8687-19
180	Sleeve	8	17	8687-20
181	Piston Wiper	8	17	8687-15
182	Piston	8	17	8687-16
183	Orifice Piston Nut	8	17	8607-7
184	O-Ring AN6227B-47	8	17	Std.
185	Metering Ring	8	17	8687-12
186	Washer An960-616	8	17	Std.
187	O-Ring AN6227B-7	8	17	Std.
188	Stainless Steel Cotter Key 1/16 x 1"	8	17	Std.
189	Nut An320-6	8	17	Std.
190	Head Upper	8	17	8687-8
191	Washer	1	18	8663-1
192	Allen Hex. Soc. Flat Hd. Cap Screw 1/2-13 x 1"		18	Std.

SPECIAL INSTRUCTIONS

ITEM NO.	QTY	PART NO.	QTY REQ.	DESCRIPTION
193	8	Std.	8	Cap Screw 1/2-13 x 1 1/4 & Lock Washer 1/2"
194	8	Std.	8	Cap Screw 1/2-13 x 1 1/2 & Lock Washer 1/2"
195	2	8684-11	2	Support Bracket
196	2	Std.	2	Key 1/2"
197	4	Std.	4	Flexloc Nut 5/8 & Cap Screw 5/8 x 1 1/2
198	8	Std.	8	Washer 5/8"
199	3	Std.	3	Cap Screw 5/8-18 x 1 1/4 & 5/8 Lock Washer
200	4	Std.	4	Cap Screw 5/8-18 x 1 1/2 & 5/8 Lock Washer
201	12	Std.	12	Cap Screw 3/8-16 x 1 1/4 & 3/8 Lock Washer
202	1	Std.	1	Key 3/8"
203	1	8683	1	Drive Bracket
204	1	Std.	1	Browning Chain Coupling #C-60-Q-20 with #80-Q Cover with Q-1 Bush. bored for 1 11/16 Shaft with Q-1 Bush. bored for 1 1/8 Shaft.
205	1	8684-7	1	Motor Mount

SPECIAL INSTRUCTIONS

ITEM NO.	PAGE NO.	PART	QTY. REQD.	DESCRIPTION
206	10	Std.	1	Electric Motor Frame 364 U 40 H.P. 208-220-440 Volts
207	18	Std.	1	Electric Motor Drive Assembly
208	18	Std.	3	Alumite Fitting 1/8
209	19, 20	Std.	1	Shaft
210	19	8683-5	1	Washer
211	19	8683-9	1	Lock Nut SKF #N-09
212	19	Std.	1	Lock Washer SKF #W-09
213	19	Std.	2	National Oil Seal #55157
214	19	Std.	2	Timken Bearing Cone #438 Cup #432
215	19	Std.	1	3/4 Pipe Plug, Elbow 45° 3/4 Pipe Size & 3/4 Close Nipple.
216	20	Std.	4	Timken Bearing #3984
217	20	Std.	1	Right Angle Drive Housing
218	20	8631-8	1	Right Angle Drive Housing
219	20	8631-9	2	Pinion Assembly
220	20	Std.	2	Oil Seal-Ford Part #01T-40/6

PART NO.		PART NAME	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
222	20	Std.	2	Gasket-Ford Part #884662	All multi-speed drive units, 1962 & up will have frame 364 US 100 IV
223	20	8631-13	2	Spacer	
224	20	8631-5	2	Hub	
225	20	Std.	2	Nut	
226	20	Std.	2	Ring Gear & Pinion-Ford Part #01T-4203-A	
227	20	8631-7	1	Main Shaft Short	
228	20	8631-6	1	Main Shaft-Long	
229	20	Std.	4	Bearing Cup - Timken #3920	
230	20	Std.	4	Garlock Seal #63X1639	
231	20	Std.	2	Tru-Arc #5000-300	
232	10	8605-45	8	Safety Cover for Safety Bar	
233	3	8608-67	4	Pin	
234	6	8609-8	21	Pin	
235	21	Std.	1	Electra Motor 40 H.P. Frame W404 us-100 IV, or 364 us-100 IV	
236	21	Std.	4	NF Cap Screw 5/8 x 3"	
237	21	Std.	4	NF Flexloc Nut 5/8	
238	21	Std.	4	Washer 5/8	

ITEM NO.	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
239	4	Washer 3/4	
240	4	Cap Screw 3/4-10 x 2 3/4	
241	1	Motor Mount	
242	23	Fence	
243	25	Fence, Foot	
244	6	Staber 3000A Reflectors & 500 Watt Light Globes	
245	3	#12-2 Wire 1959 through 1961 #12-3 Wire 1962 & up	
246	3	Hubbell Plug #9763 Hubbell Plug #7568	
247	3	T-Bar	
248	3	Extension Pipe	
249	3	Light Foot	
250	9	Stake	
251	16	Bushing	
252	16	Socket Hd. Shoulder screw 1/2-13 x 3/4 length thd. 5/8 dia. shoulder x 1/2" length 7/8 dia. Head x 3/8 length with 5/16 socket; Part # SH55-21 Wepco	

ITEM NO.	PAGE NO.	PART NO.	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
253	10	B603-40	16	Bronze Bushing	
254	14, 25	Std.	1	MRC Ball bearing #7320 & True Arc Strap Ring #5100-393	Located bottom of center column. See lubrication chart.
255	14	Std.	1	Alumite Fitting 1/8"	For lubricating bearing, at bottom of center column - see lubrication chart.
256	17	Std.	8	Shaft Lock Washer W-06	
257	18	Std.	1	Oil Cooler J.P. Ashcraft 5643 Dyer Dallas, Texas	
258	17	Std.	8	AN6246-24 Back-up Ring	
259	24	9620-30	16	Bushing Bronze 1 1/4" O.D. x 1" I.D. x 1" long Bunting (#D461)	Note: Customer should specify O.D. of bushing if this cylinder is used on 1959 & '60 model riders; if 1 3/8" O.D., use Bunting #E597. Note: After pressing bushing into cylinder head, remove lube fitting and drill 1/8 thru bronze bushing.
260	24	9620-1	8	Upper Barrel	
261	24	Std.	16	Soc. H.D. Cap screw 1/2-13 x 3/4" & 14 Millimeter spark plug washer	
262	24	9620-44	8	Filter	
263	24	9620-15	16	Bronze Bushing	
264	24	9620-29	64	Soc. H.D. Cap Screw 3/8-16 x 1 1/2	
265	24	9620-39	64	Flexloc Nut 3/8-16	
266	24	9620-38	8	Lock Nut	
267	24	9620-37	8	Piston, Secondary	

25

ITEM NO.	PAGE NO.	PART NO.	QTY. RQD.	PART NAME	SPECIAL INSTRUCTIONS
268	24	9620-11	8	Lock Washer W-07	
269	24	9620-35	8	Valve Spring, Secondary	
270	24	9620-3	8	Valve, Primary	
271	24	9620-4	8	Spring, Retainer	
272	24	9620-7	8	Piston Rod	
273	24	9620-45	8	Back-up Ring AN6246-24	
274	24	9620-21	8	O-Ring AN6227B-30	
275	24	9620-24	8	Wiper, Chicago Rawhide 206-G110	
276	24	9620-28	8	Packing Gland	
277	24	9620-19	24	Piston Ring 3/16 x 3 3/4" O.D.	
278	24	9620-36	8	Valve, Secondary	
279	24	9620-34	8	Piston, Primary	
280	24	9620-5	8	Valve Spring	
281	24	9620-6	8	Lock Spring	
282	24	9620-10	760	Cooling Fins	
283	24	9620-48	8	Barnet, Lower	
284	24	9620-20	8	O-Ring AN6227B-24	

ITEM NO.	PAGE NO.	PART NO.	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
286	24	9620-23	8	Lock Ring Tru-Arc 5000-206	<i>Derivation 1258820</i>
287	24	9620-22	8	Lock Ring Tru-Arc 5000-300	
288	24	9620-14	8	Lock Nut	
289	24	9620-41	8	Rod End 3/16"	
290	24	9620-32	8	Bushing Bronze 2.32	
291	24	9620-25	8	Self-aligning bushing RBC 820-9L 8.5"	Used on 1961 models & up. 1959 and 1960 models can be converted to use this cylinder.
292	24, 32	9620	8	Hydraulic Cylinder	
293	7	8605-22	8	Knob	
294	7	9605-5 9605-6	8	Hex. Cap Screw 1/2-13 x 2 1/4" & Flexloc Nut 1/2-13	
295	37	Std.	1	Heat Exchanger	
296	10	Std.	8	5/16 x 4 1/4" Eye Bolt with (2) 5/16 nuts	See operation instructions in this manual
297	26, 31	Std.	1	Model ATD-211-Wichita Air Clutch	
298	27, 31	Std.	1	1/2" Roto-coupling; use on Wichita Air Clutch model ATD-211	
299	28	9602-26	8	Axle Bolt	
300	28	9602-31	16	Key	
301	28	9602-28	8	Axle Shaft	

SPECIAL
INSTRUCTIONS

For 1961 model riders

Order from Aeroaffiliates, Inc.

ITEM NO.	PAGE NO.	PART NO.	QTY. RQD.	PART NAME
302	28	9602-29	16	Collar
303	28, 33	9619	8	Wheel
304	28	Std.	16	Washer W-08
305	28	Std.	16	Lock Nut N-08
306	28	Std.	16	National Oil Seal #50132
307	28	Std.	8	Nut AN-310-16
308	28	Std.	8	Cotter Key 1/8 dia. x 1 1/2"
309	28	Std.	16	Timken Bearing-Cone 25580, Cup 25520
310	16	Std.	8	Back up Ring AN-6246-25
311	29	Std.	1	12V Battery
312	29	Std.	1	Battery Ground 12V Cable 14" Long
313	29	Std.	1	Battery cable 12V 53" Long
314	29	Std.	2	Pulley
315	36	Std.	2	Marsh gage size 2" type IDP grad. 160 lbs. Case Bl. 1/4" Connection
316	36	Std.	1	Midland Air Valve #MN20010
317	36	Std.	1	External Stop & Start Switch

ITEM NO.		PAGE NO.	PART NO.	QTY RQD.	PART NAME	SPECIAL INSTRUCTIONS
318	35		9602	8	Torsion Wheel Suspension	When ride is set up, check to assure that 16 Cotter Pins are installed, and Ell Bolts are secure.
319	35		9610	8	Safety Bar Assembly	
320	35		9605-10	8	Turn Buckle Assembly	
321	34		Std.	8	1/2 x 1 1/2 Hex. Cap Screw 1/2" lock washer & 1/2" Hex. Nut	
322	34		Std.	16	5/32 x 3" Cotter Pin	This type step is standard equipment on 1961 & up.
323	34		Std.	8	Castellated Nut 1"-14	
324	34		9604	8	Step Assembly	
325	34		9602-32	336	Bolt	
326	34		9659	8	Safety Key	
327	34		9604-6	8	Washer	
328	33		9602-23	8	Rubber Bumper	
329	33		Std.	16	3/4 x 1 3/4 Shank length 5/8-11 thd. x 7/8" long. Stripper bolt & 3/4" light internal tooth washer	
330	33		Std.	8	Tire 17 x 5 x 12 1/8	
331	33		Std.	16	3/8 x 1 1/4 Hex. Cap Screw & 3/8 Flexloc Nut	
332	33		Std.	16	AN12-27 Bolt, AN310-12 Nut, AN960-1216 washer & cotter pin 1/8 x 1 1/4"	

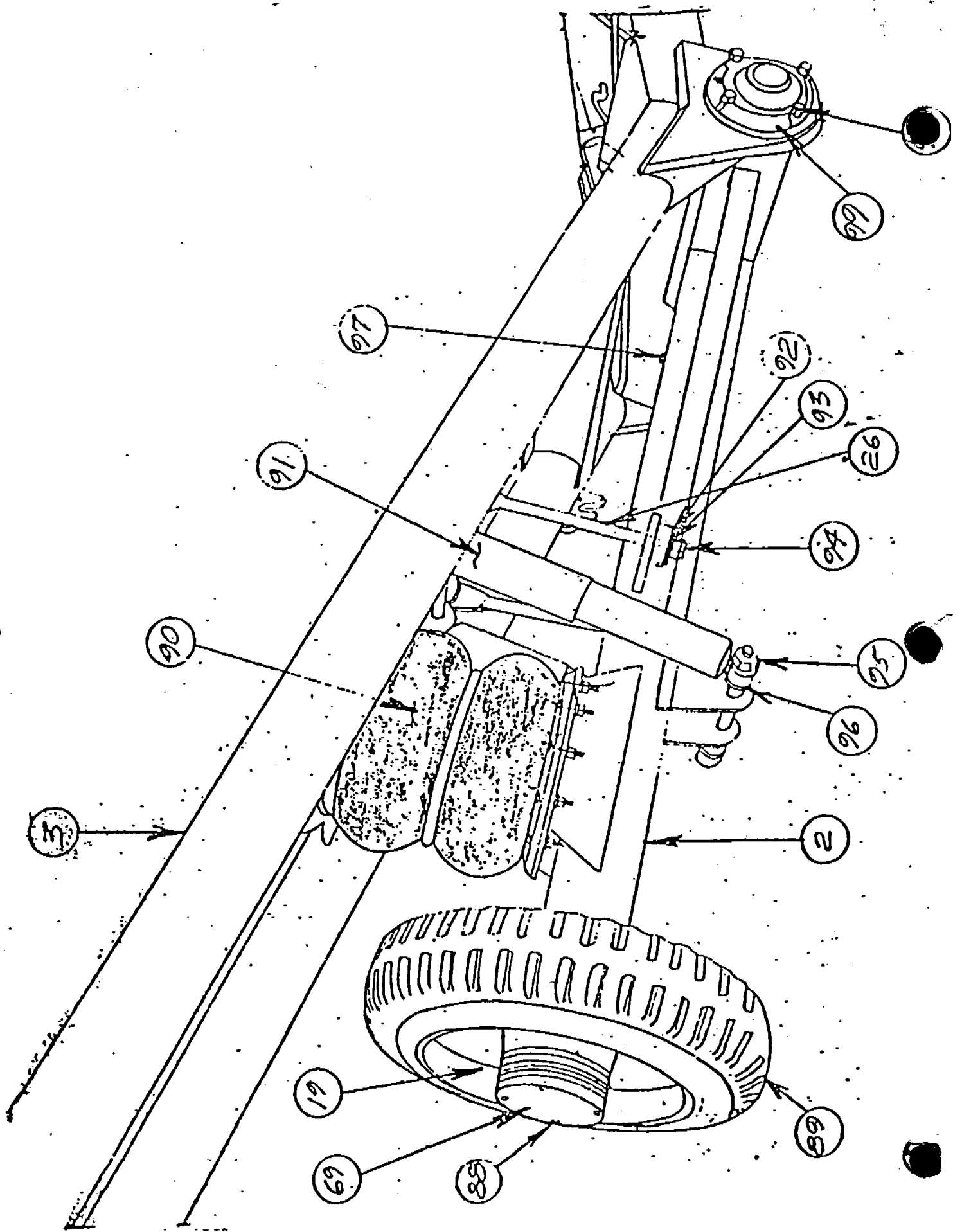
ITEM NO.	PAGE NO.	PART NO.	QTY RQD.	PART NAME	SPECIAL INSTRUCTIONS
333	32	9629-3	8	Bronze Bushing	
334	32	Std.	8	Self aligning bushing RBC-820-9L	
335	30	9603	8	Sweep Assembly	
336	31	Std.	1	Hydro-Sheave Drive Model 12.2 HSD Twin Disc Clutch Co.	
337	31	Std.	1	Air Compressor-Montgomery Ward #FQS-9189	
338	31	Std.	2	Motor Mount Rails 1K29	
339	31	Std.	4	Hex. Cap Screw 5/8-11 x 1 1/8" & 5/8 Washer	
340	31	Std.	1	Browning V-Belt 4L 460	
341	31	9696-21	1	Air Tank	
342	25	9629-23	1	Dust Cover	
343	29, 37, 38	Std.	1	International Engine UC 263	
344	37	9635-4	1	Engine Base	
345	38	Std.	1	Torque Converter Radiator	
346	29, 37, 38	Std.	4	Dayflex Dayton Rubber Hose #M-53 & #M-18	#M-53 Long Hose (3) Req. d. #M-18 Short Hose (1) Req. d.
347	29	Std.	1	Goodyear V-Belt 4L 960	
	37, 38	Std.	6	V-Belt	Order in matched set of 6 belts

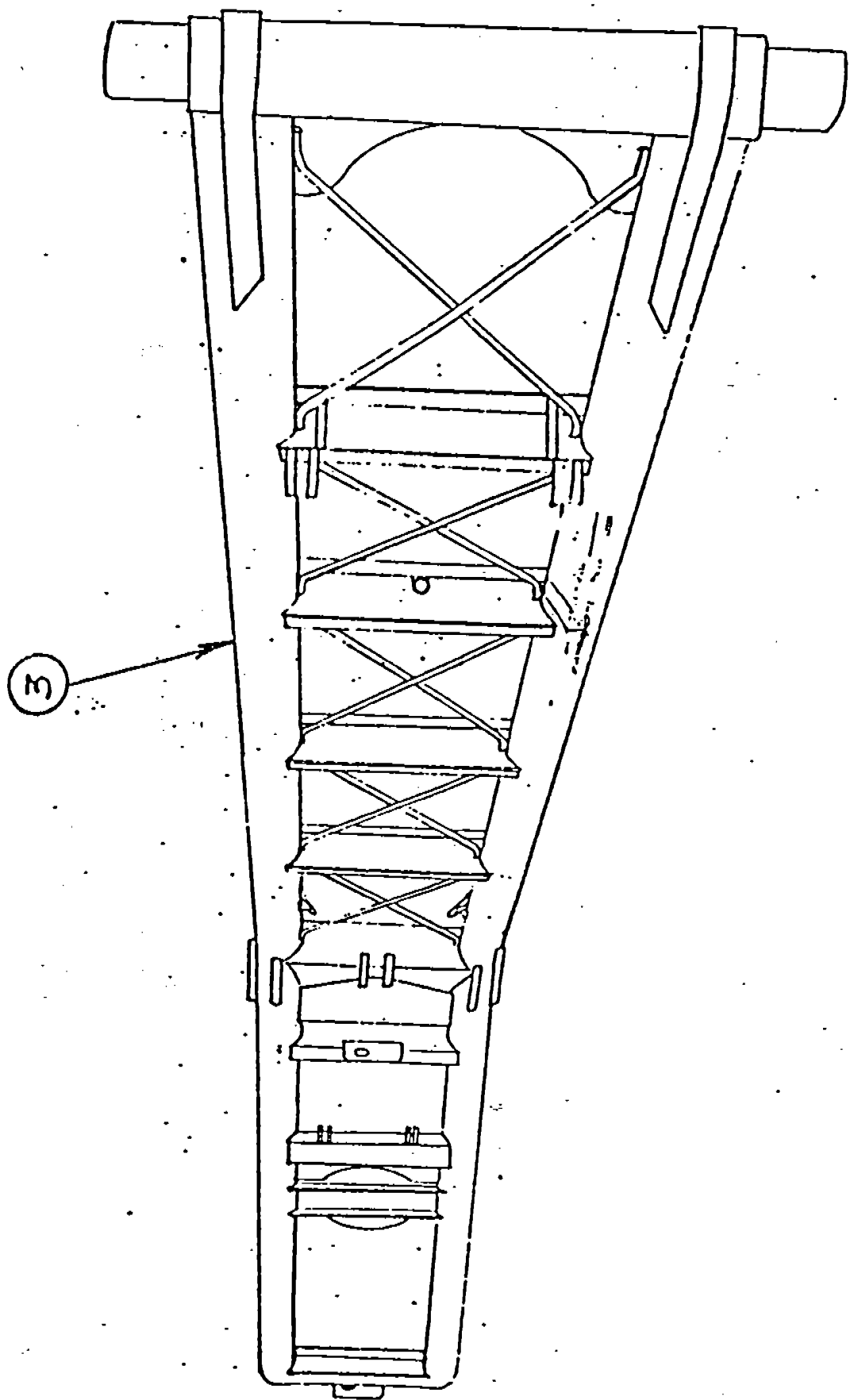
PAGE NO.	PART NO.	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
349	37	Std.	Fork Converter Model B203	Effective Ride 164 & up Order from Aeroaffiliates, Inc.
350	31	Std.	Electric Motor 50 H.P. 208-220-440	
351	10	Std.	Plastic Cap 1 1/2" TC-NP-290	
352	7	Std.	Washer 3/4"	
353	25	9613-45	Grease and Dust Seal	
354	21	Std.	Sheave	Keep screws tight. If screws are removed for any reason, apply grease to threads when reinstalling.
355	21	Std.	Hydro-Sheave Drive Model 12.2 HSD Twin Disc Clutch Co.	
356	39	Std.	Hex. Cap Screw 3/8-16 x 1", flat washer 3/8" & lock washer 3/8".	
357	39, 41	8602-115	Wheel	Wheel should be removed and repacked at the beginning, and in midseason. Repack with heavy duty wheel bearing grease. When tires wear down on one side, remove wheel assembly, interchange from 146 & 358 with item 145 & 147, replace wheel in opposite direction. Wheel assembly shown is used on 1962 Model rides and up.
358	41	8602-114	Spacer	
359	39, 41	Std.	Hex. Cap Screw 1/4-20 x 3/4"	
360	41	Std.	Lock Washer 1/4"	If screws are removed for any reason, apply grease to threads when reinstalling.
361	39	Std.	Flexloc Nut 3/8-16 & flat washer 3/8"	

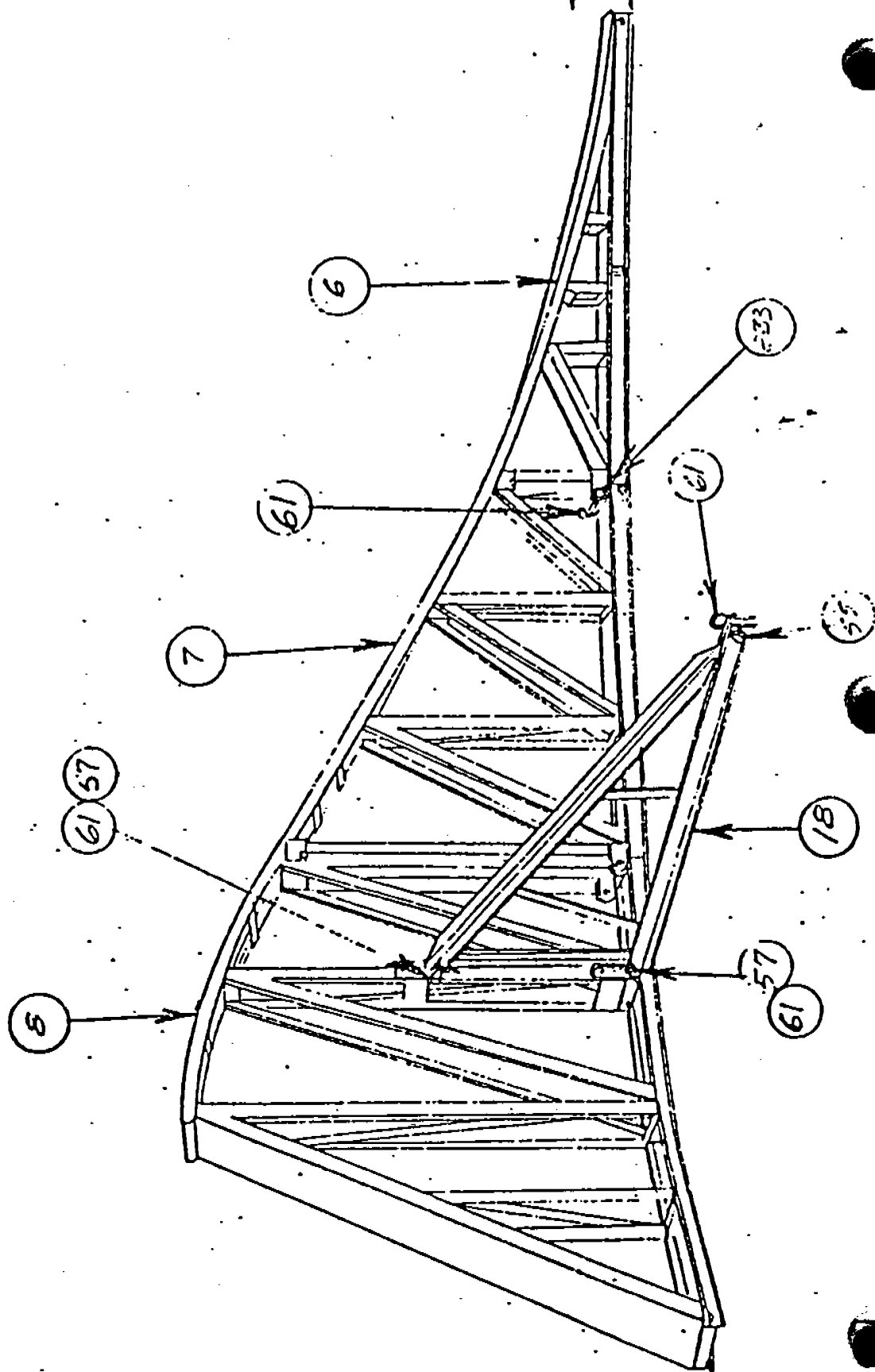
IN. NO.	MO. NO.	PART NO.	QTY. REQD.	PART NAME	SPECIAL INSTRUCTIONS
362	39	Std.	8	Air Spring Firestone	Air spring is not interchangeable with Item 90. Maintain air pressure of 22 pounds. Used on 1962 Model rides and up.
363	39, 40, 41, 42	8602-100	8	Yoke Assembly	
364	39	Std.	16	Cotter Key 1/8" dia. x 1"	
365	39	Std.	32	Soc. HD. Cap Screw 3/4-16 x 1 3/4" and Lock washer 3/4"	
366	39, 42	8602-107	16	Washer	
367	39, 42	Std.	16	Castellated nut 3/4-16	
368	39, 42	Std.	16	Cotter Key 1/8" dia. x 1 1/2"	
369	41	Std.	16	Shaft Lock Nut N-06	
370	41	Std.	16	Shaft Lock washer W-06	
371	42	8602-113	16	Rubber Washer	
372	42	8602-109	16	Rubber Cup	
373	42	8602-108	16	Rubber Washer	
374	43	9611-3	8	Plunger	
375	43	Std.	24	Washer A8960-616	
376	43	8611-8	8	Washer	
377	43	8611-9	8	Stainless Stl. Castellated Nut 3/8-16	
378	43	8611-12	8	Washer	

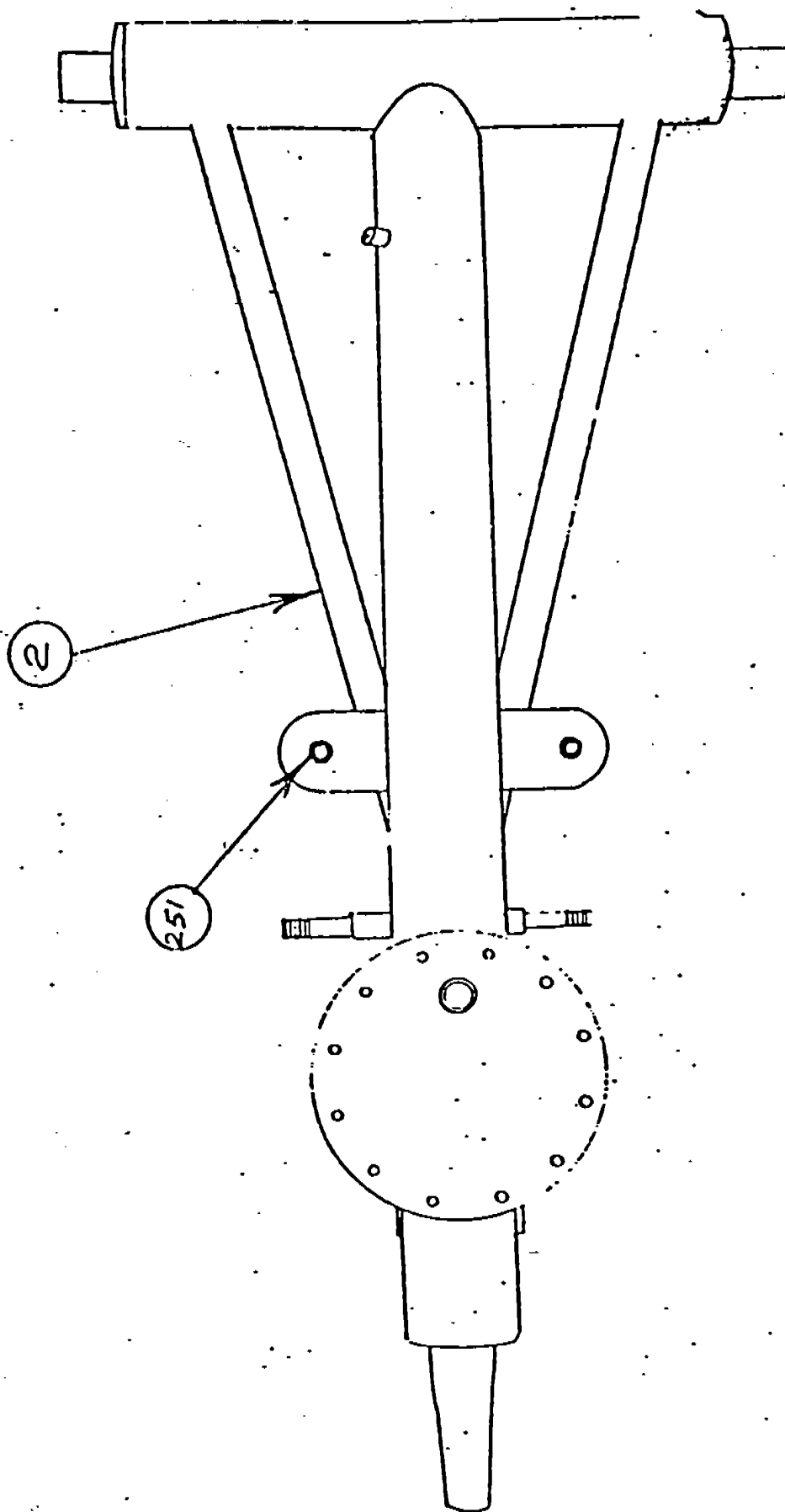
**Special
Instructions.**

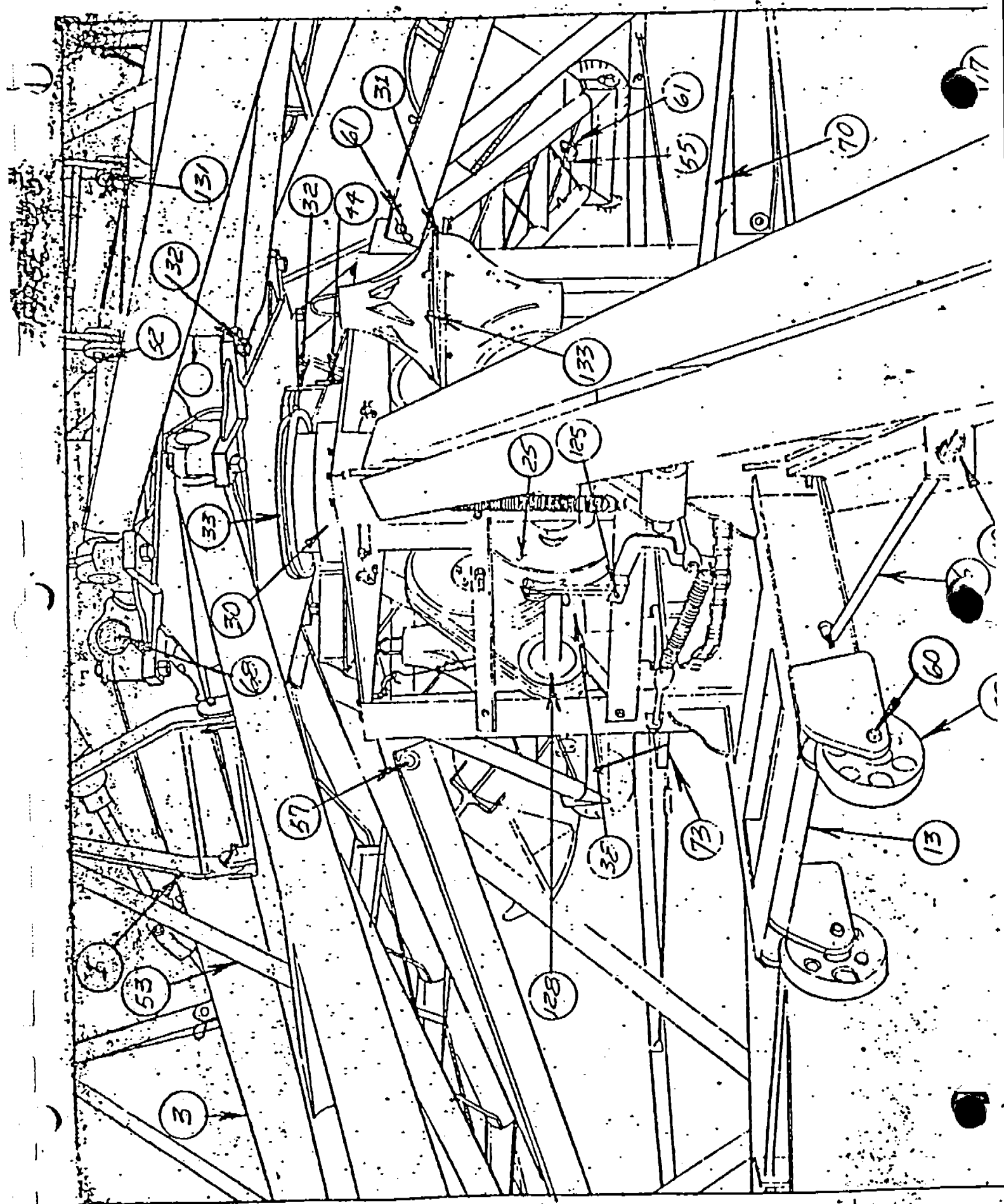
This item discontinued in 1961. This information for riders that have the soup ring.



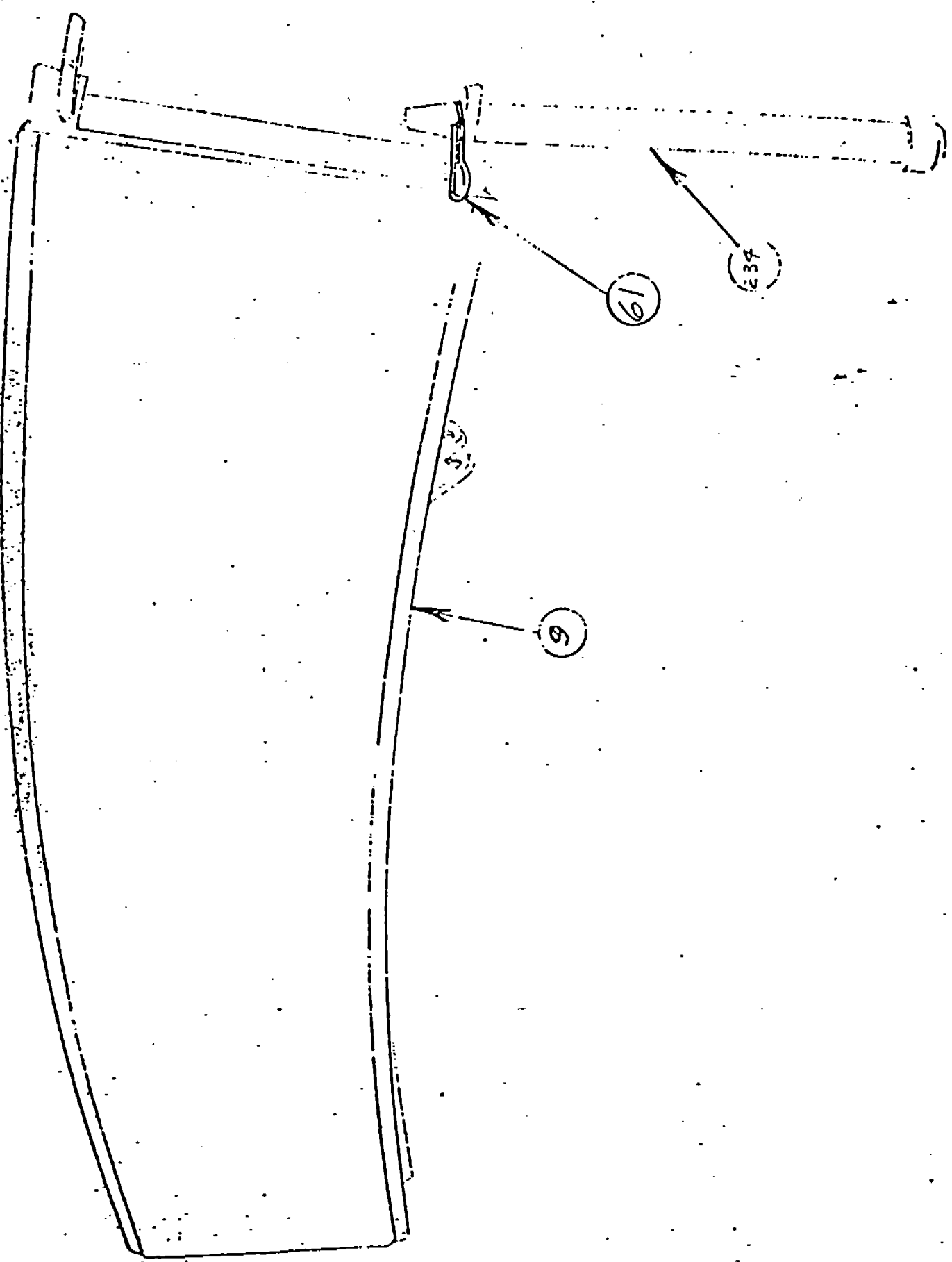


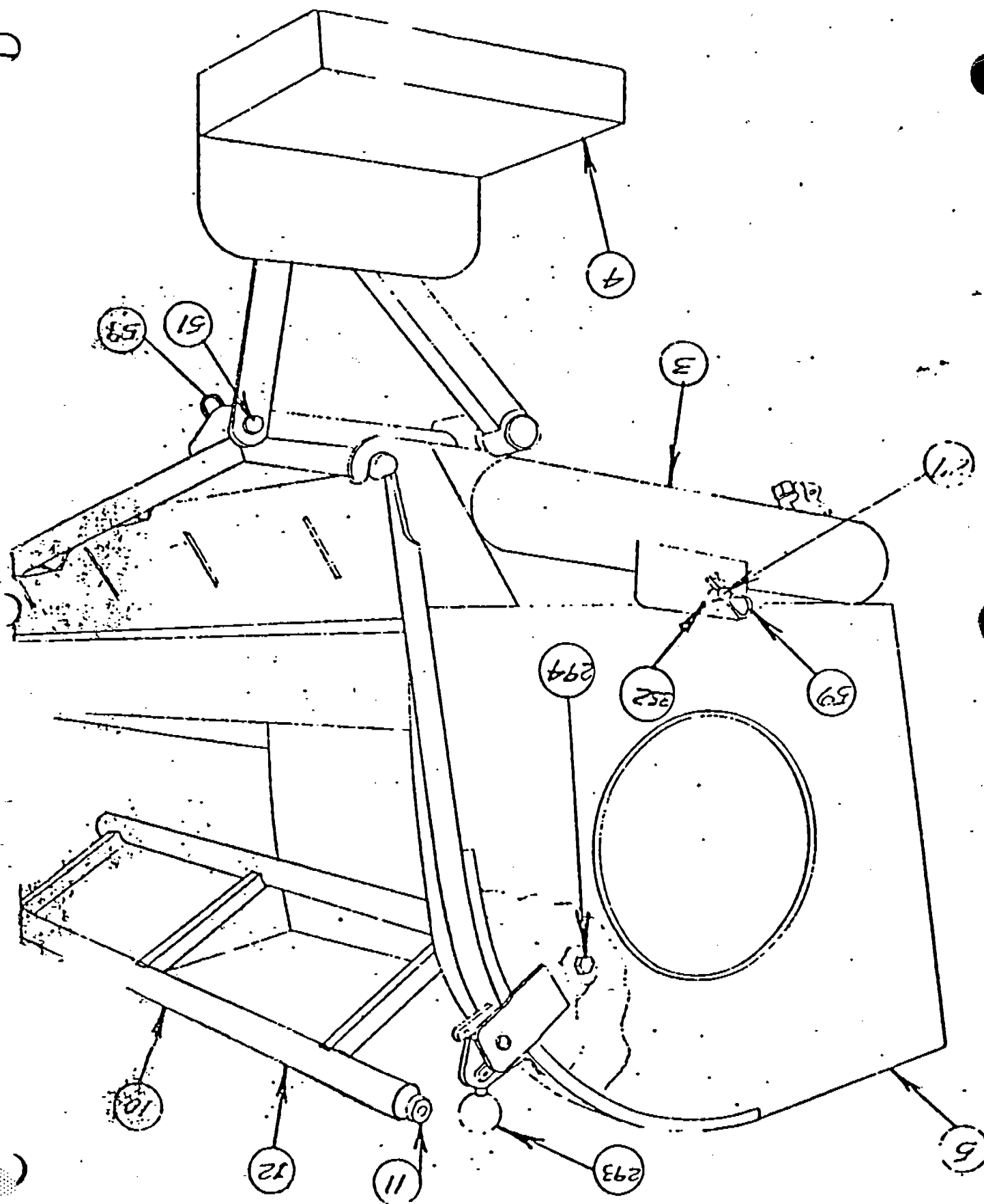




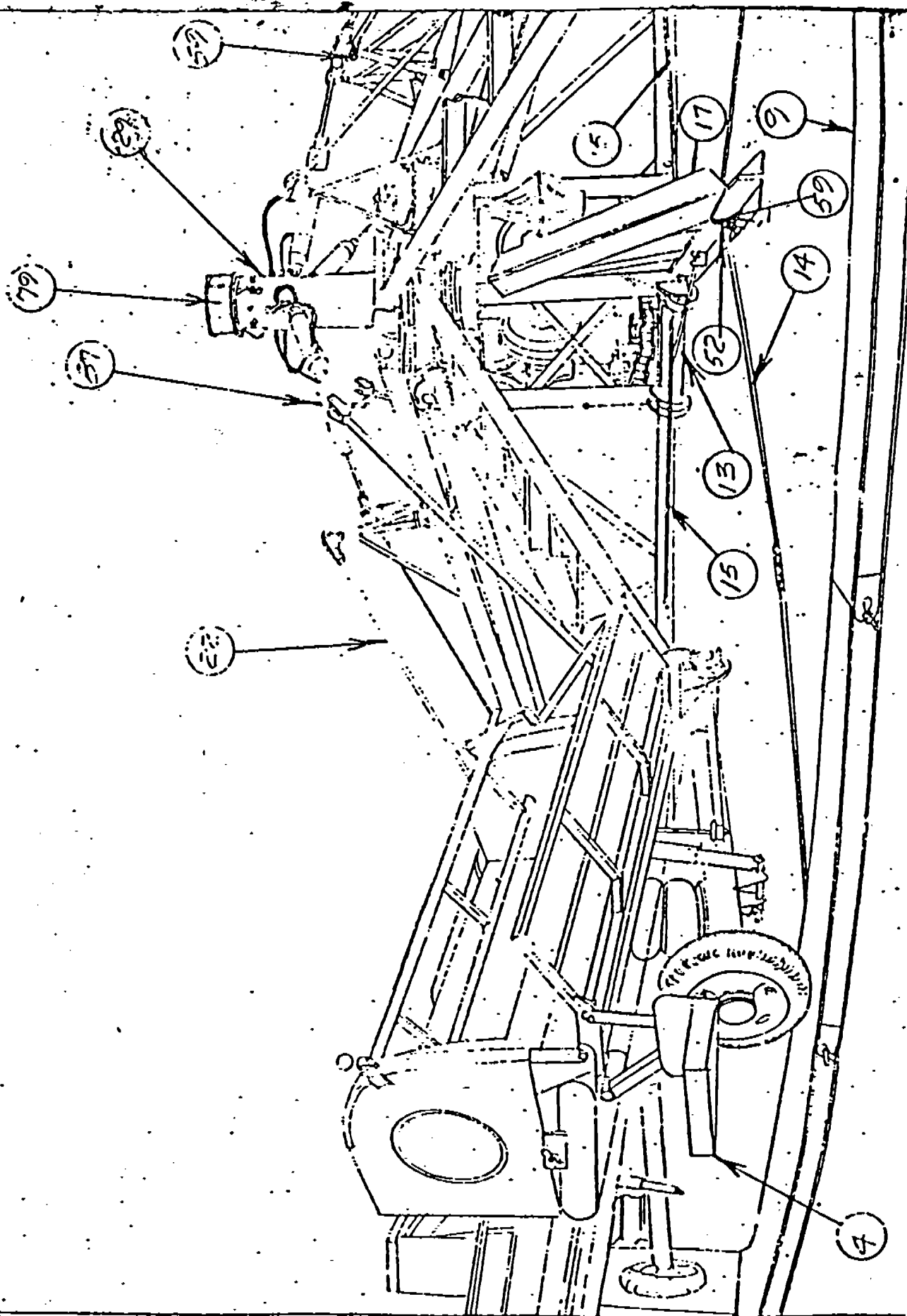


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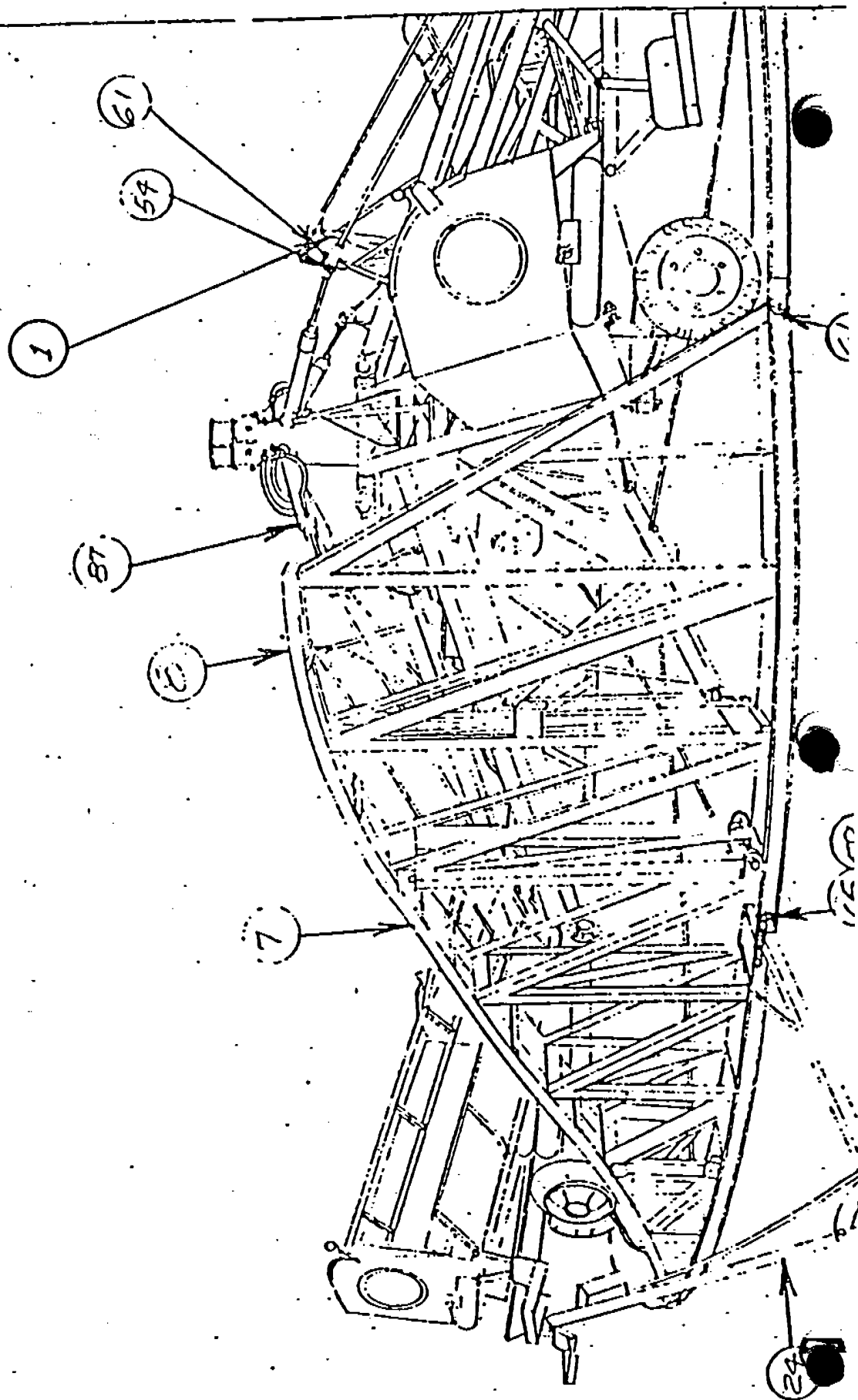


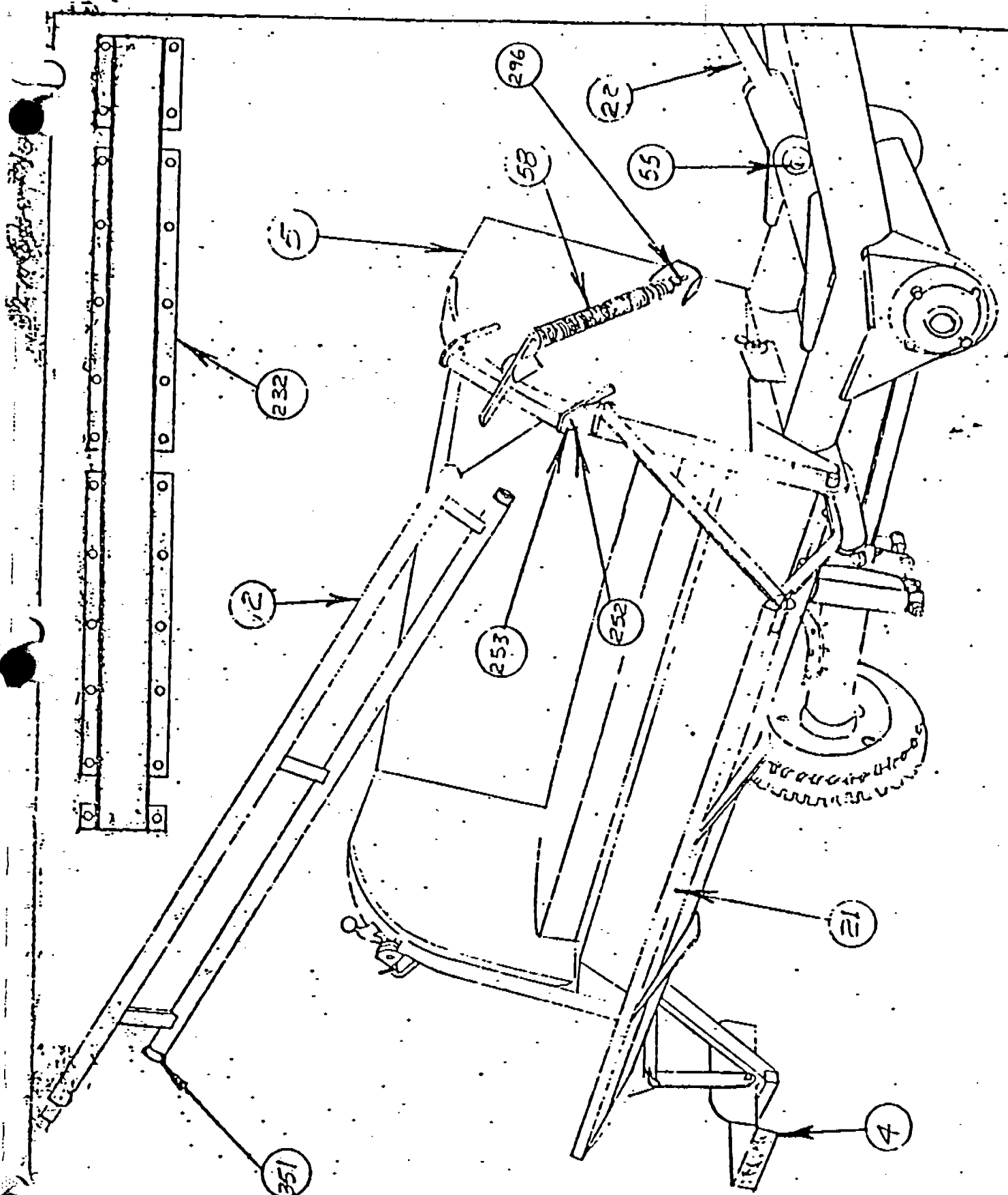


UPPER CYLINDERS OMITTED
FOR CLARITY

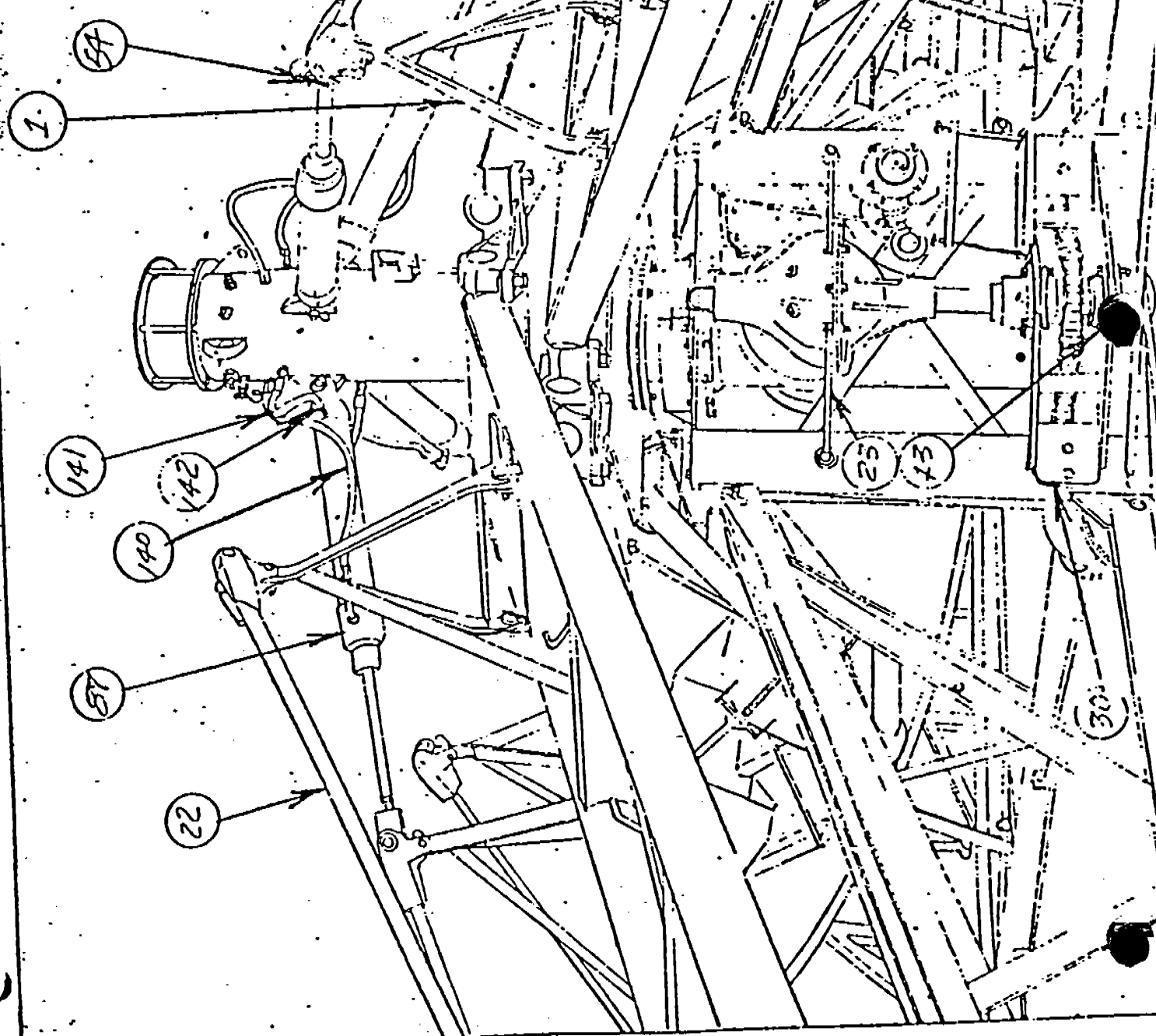


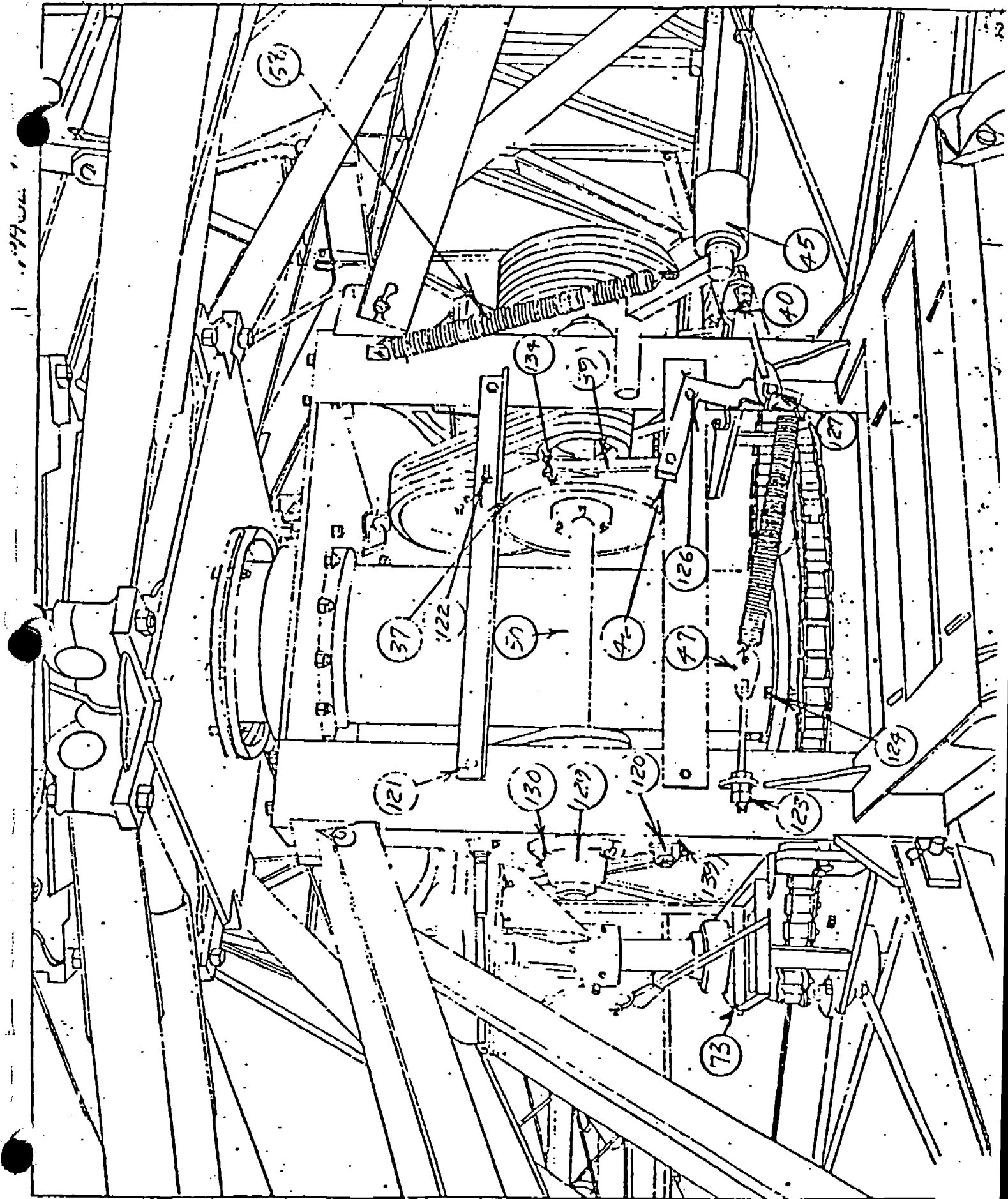
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FOR CLARITY

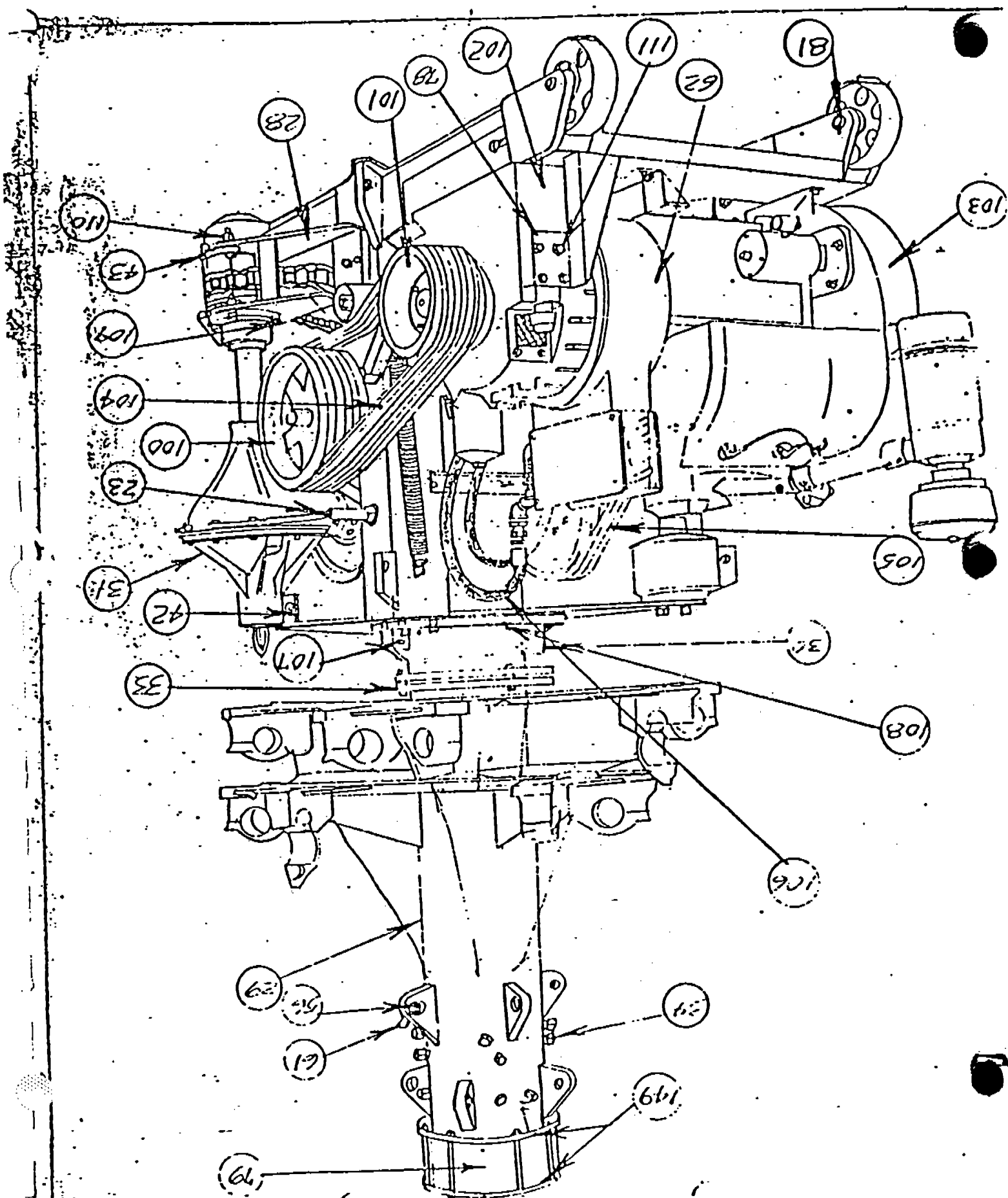


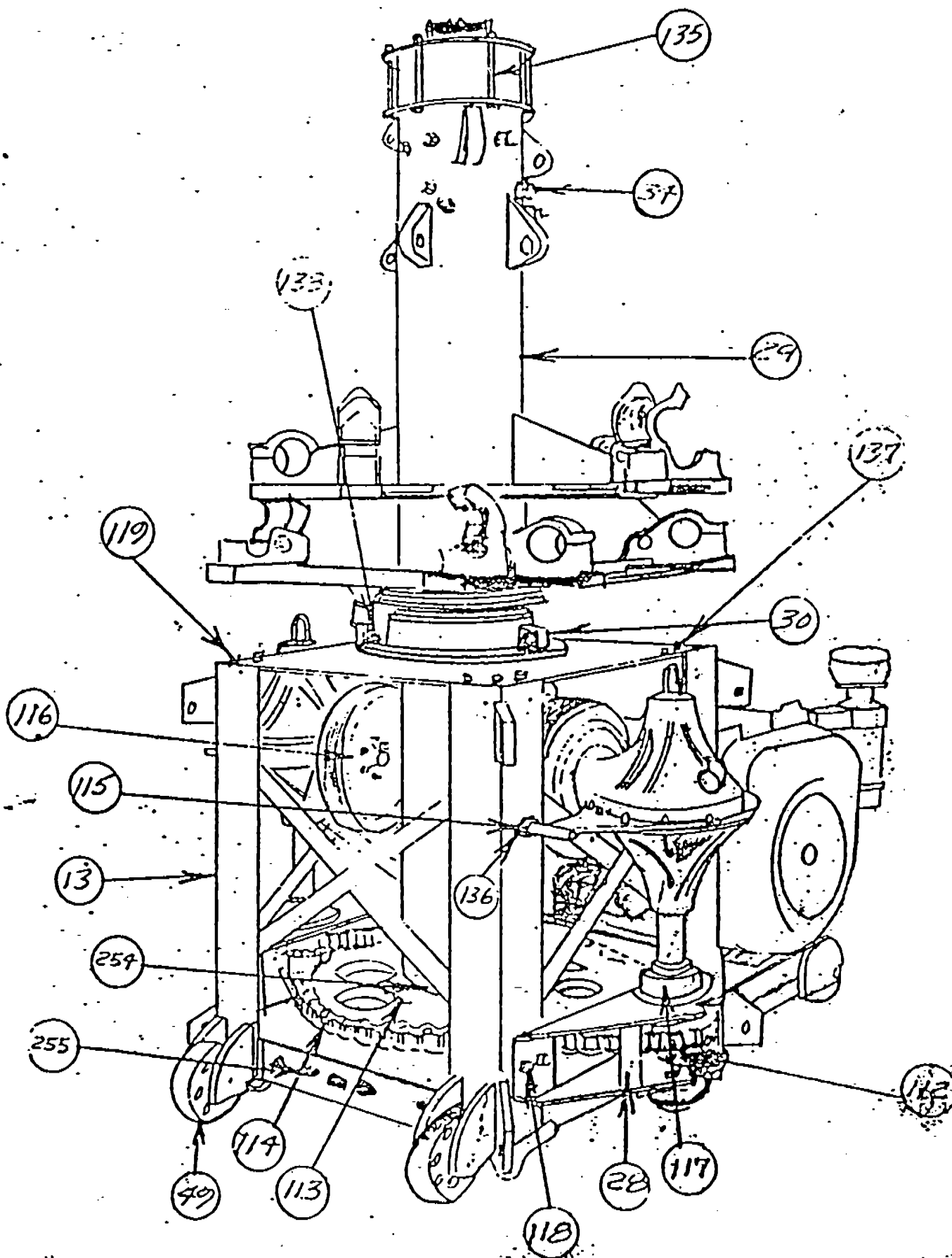


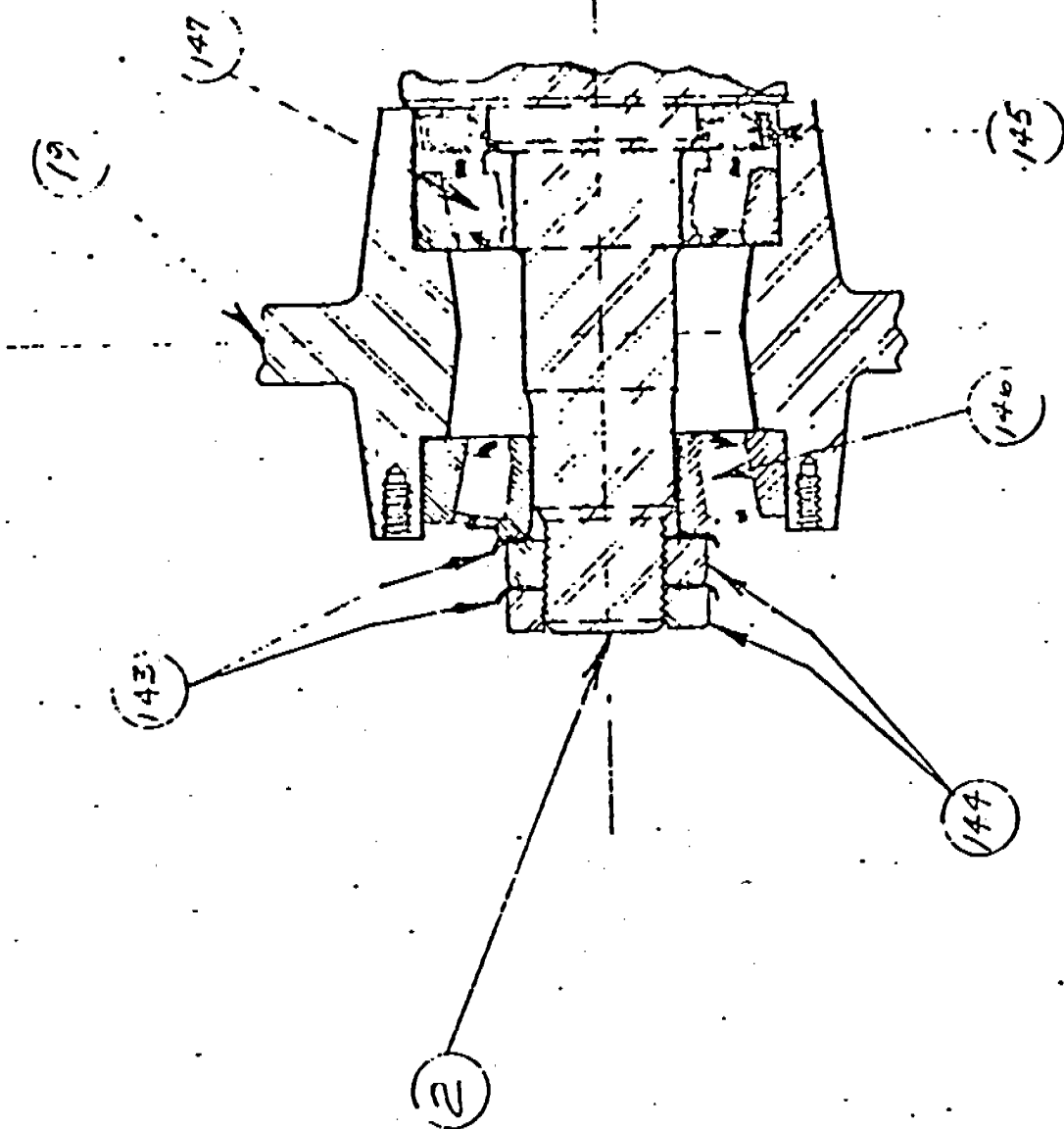
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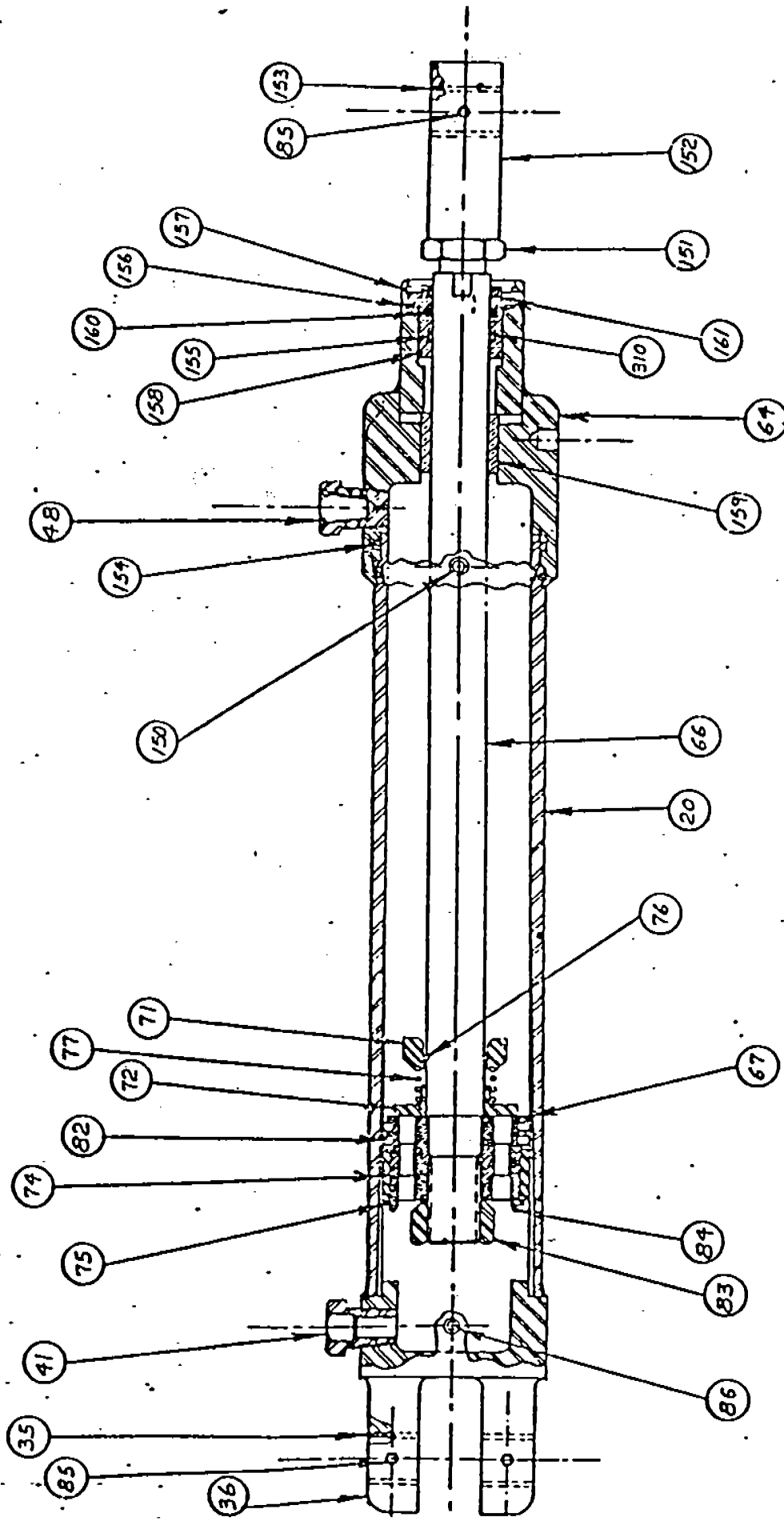


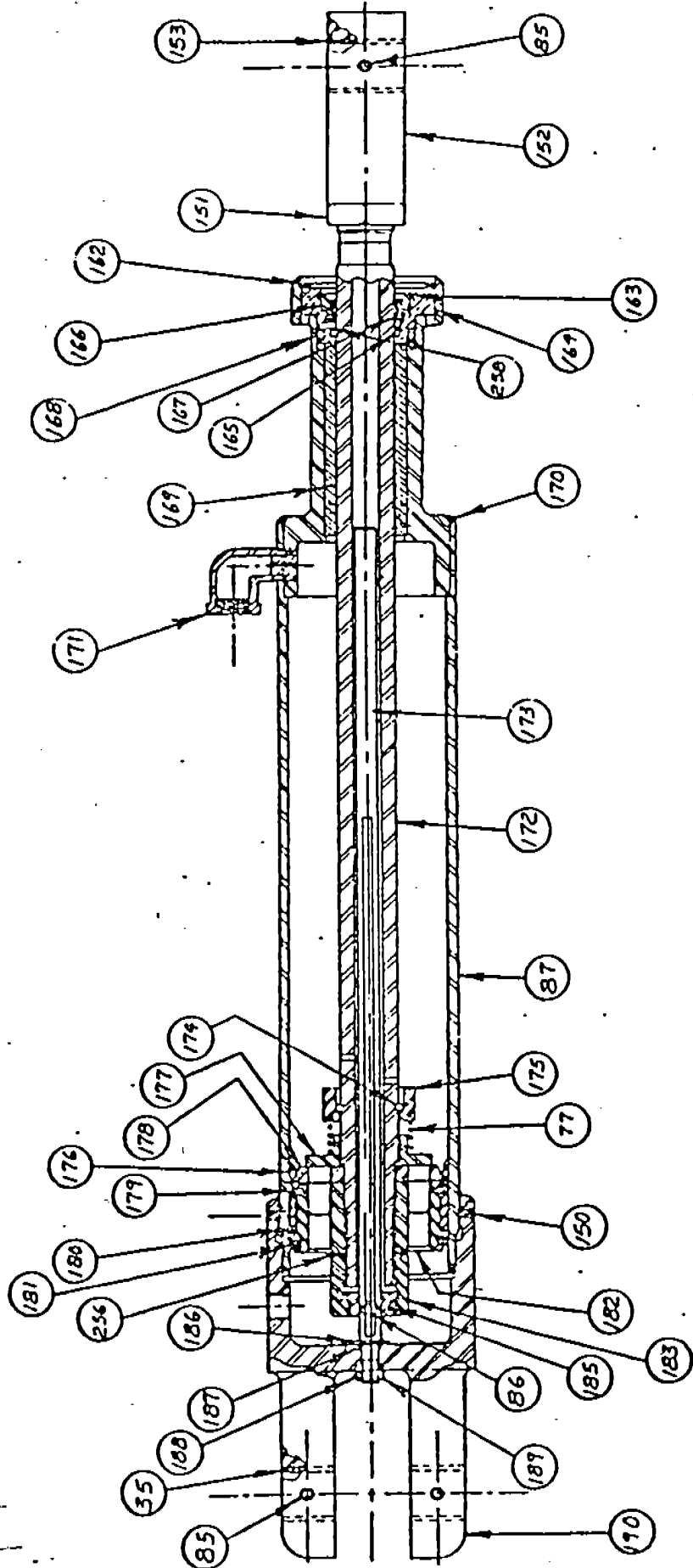


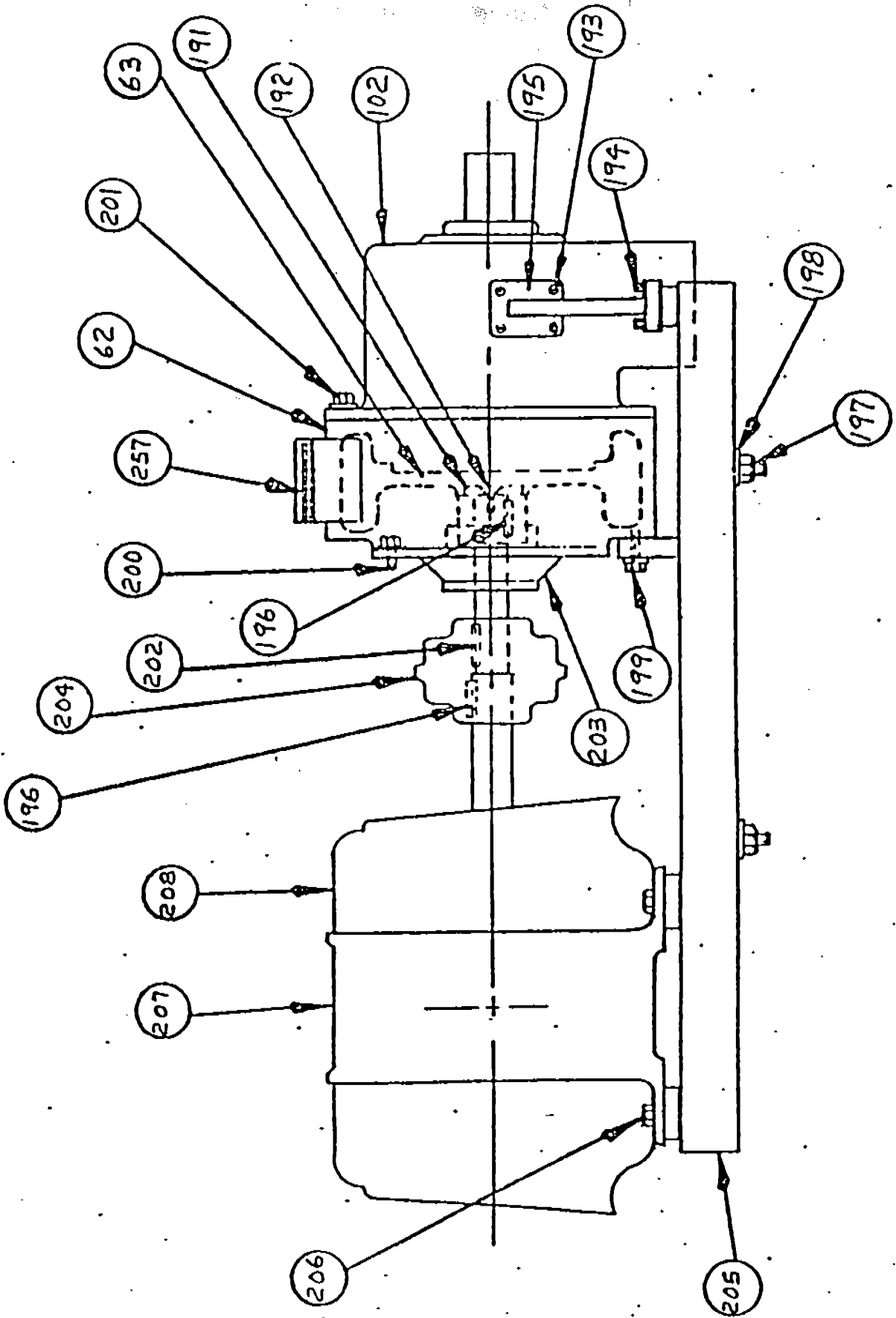


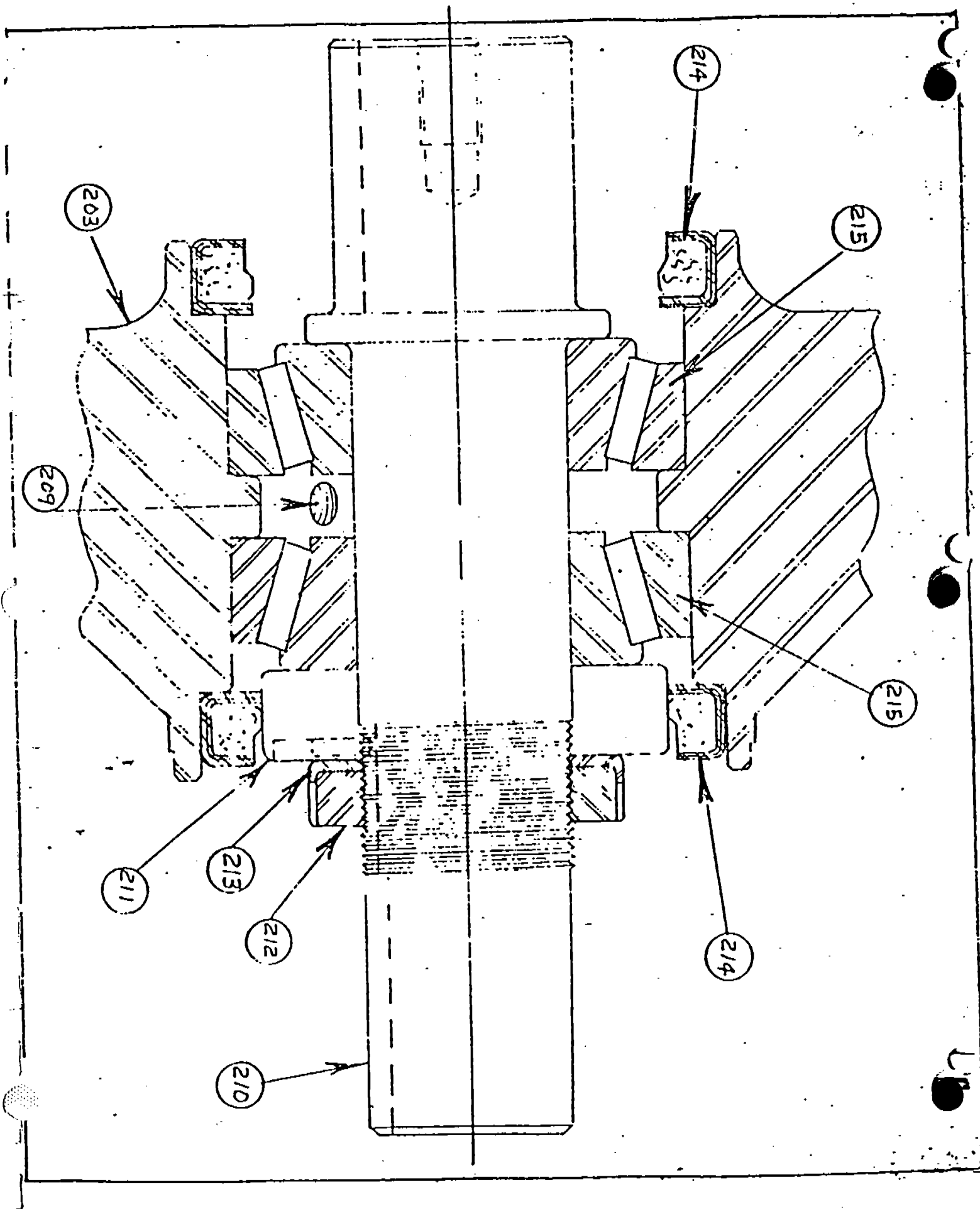












GEAR DRIVE ASSEMBLY

REF. NO.	PART NO.	NAME OF PART	NO. REQ.
1	O-97	UPPER HOUSING BELL	2
2	O-114	PINION PILOT BEARING <i>RS 5365 w. Box</i>	2
3	O-117	PILOT BEARING RETAINER <i>HB 4629 A</i>	2
4	O-120	PINION GEAR (6 Tooth)	2
5	O-1138	PINION BEARING CONE <i>TIMKEN 53176</i>	4
6	O-113	PINION BEARING CUP <i>TIMKEN 57375</i>	4
7	O-111	PINION SLEEVE <i>TIMKEN 53375</i>	2
8	O-540	PINION SLEEVE CORK SEAL <i>HB 4629 A</i>	2
9	O-113A	PINION BEARING WASHER <i>HB 4627</i>	2
10	O-115	PINION BEARING NUT <i>HB 4634</i>	4
11	O-116	PINION BEARING LOCKWASHER <i>HB 4636 A</i>	2
12	O-358	PINION COVER PLATE <i>HB 4671</i>	2
13	O-539	OIL SEAL <i>5005-5 NATIONAL</i>	2
14	O-606	GEAR DRIVE DRIVEN SPROCKET (32 Tooth)	1
15	O-600A	PINION TAPERED HUB BUSHING & SET SCREWS	2
16	O-600	PINION TAPERED HUB (Plain)	2
17	O-120A	PINION GEAR NUT <i>HB 3511655</i>	2
18	O-112	DRIVE SHAFT BEARING CUP <i>TIMKEN 3420</i>	4
19	O-112A	DRIVE SHAFT BEARING CONE <i>3954</i>	4
20	O-536	RING GEAR (40 Tooth)	2
21	O-371A	DRIVE SHAFT (Right, Long)	1
22	O-402	LOWER HOUSING BELL	2
23	O-103	LOWER HOUSING GASKET <i>HB 4635</i>	2
24	O-402C	RING GEAR THRUST BLOCK <i>HB 4144B</i>	2
25	O-402D	RING GEAR THRUST BLOCK PIN <i>HB 4159</i>	2
26	O-528	PACKING (3 Rings)	2
27	O-508	PACKING GLAND	2

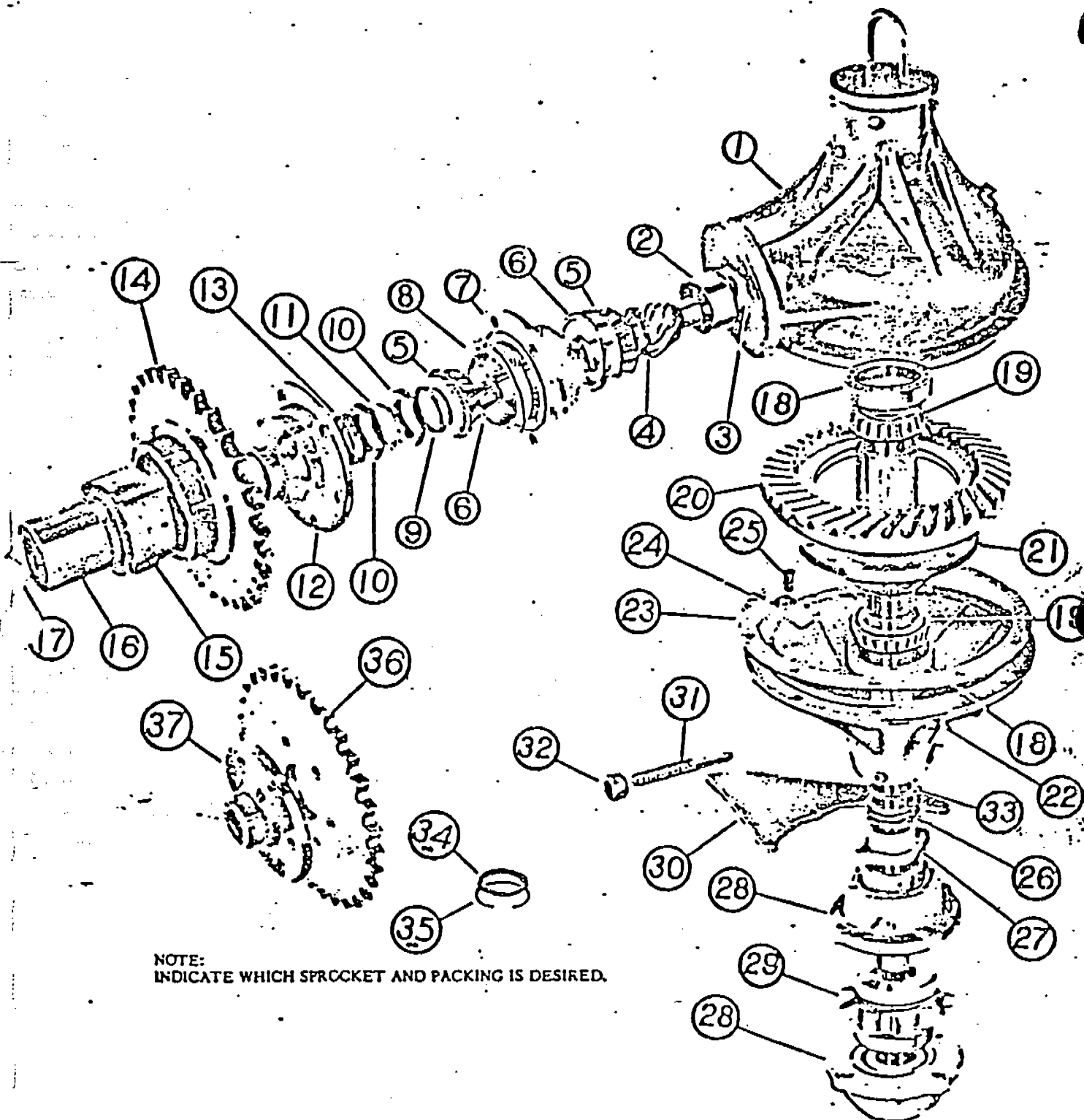
REF. NO.	PART NO.	NAME OF PART
28	O-320	DRIVE SHAFT BEARING <i>41-14 10627</i>
29	O-496	DRIVING SPROCKET (9 Tooth)
30	O-163	HOUSING BRACKET
31	O-107	HOUSING BRACKET STUD
32	O-108	GEAR DRIVE ADJUSTING NUT
33	O-100	PACKING RETAINING RING
34	O-402A	LOWER HOUSING BELL GREASE SEAL <i>51500</i>
35	O-402B	LOWER HOUSING BELL LOCK RING <i>5000-300</i>
36	O-365	GEAR DRIVE DRIVEN SPROCKET (32 Tooth)
37	O-403	GEAR DRIVE DRIVEN SPROCKET TAPERED HUB
*	O-403A	SPROCKET BOLT, NUT & LOCKWASHER
*	O-125	GEAR DRIVE DRIVEN SPROCKET (48 Tooth)
*	O-275	ZERK FITTING
*	O-97A	BEARING RETAINER RIVET
*	O-120C	PINION GEAR KEY
*	O-358A	PINION COVER PLATE CAP SCREW
*	O-607	GEAR DRIVE DRIVEN SPROCKET (48 Tooth)
*	O-120B	PINION NUT COTTER KEY
*	O-600B	PINION TAPERED HUB KEY
*	O-371B	DRIVE SHAFT BEARING BOLT & NUT (Long)
*	O-371C	DRIVE SHAFT BEARING BOLT & NUT (Short)
*	O-512	PACKING GLAND STUD & NUT
*	O-102	HOUSING BOLTS
*	O-404	GIB HEAD TAPER KEY <i>1/2 x 4 1/2 6113 7A</i>
*	O-371	DRIVE SHAFT (Left, Short)
*	O-536A	RING GEAR RIVETS

* Not Illustrated

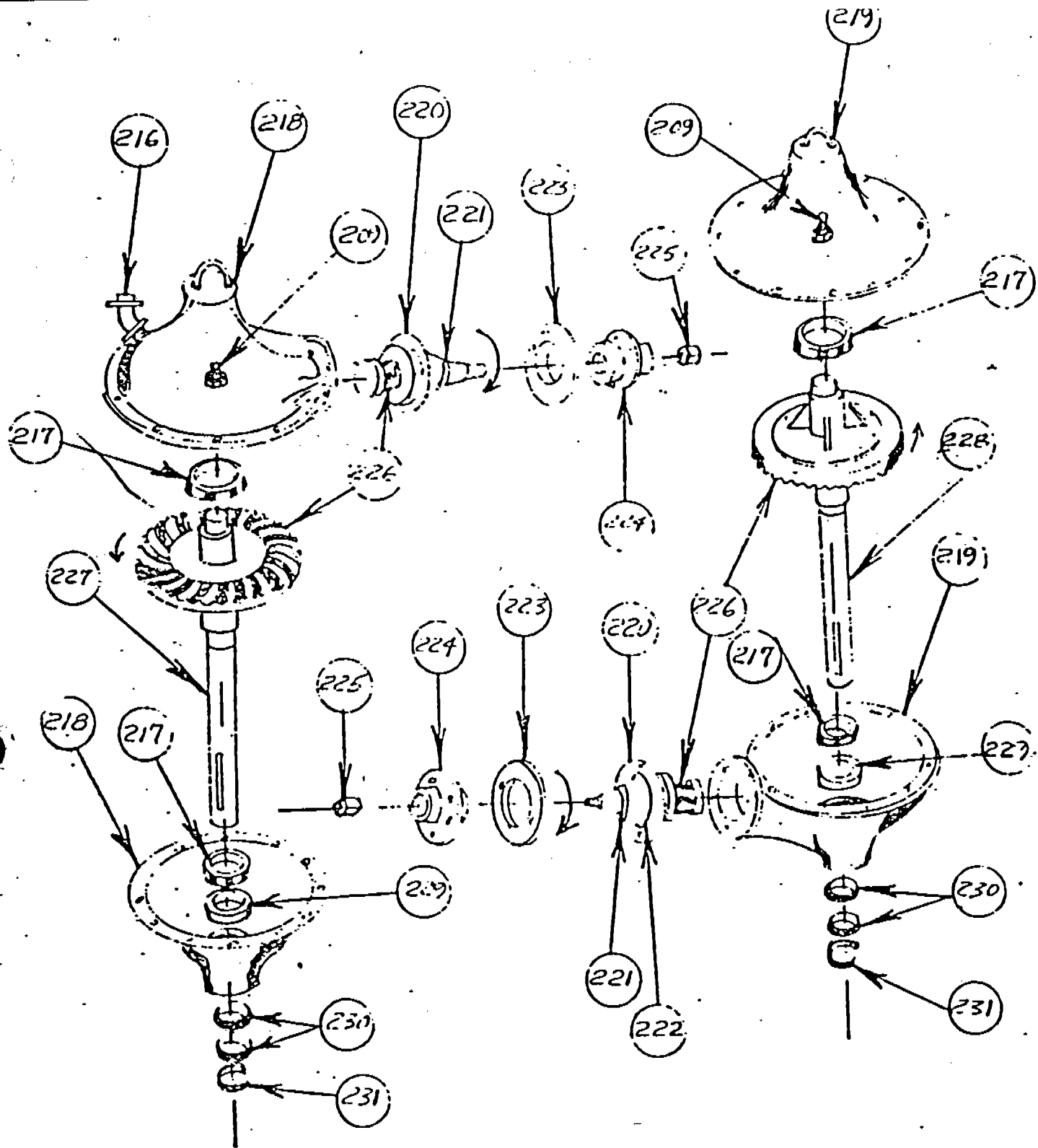
** For use on all machines up to and including Serial No. 2694 except machines that have been rebuilt.

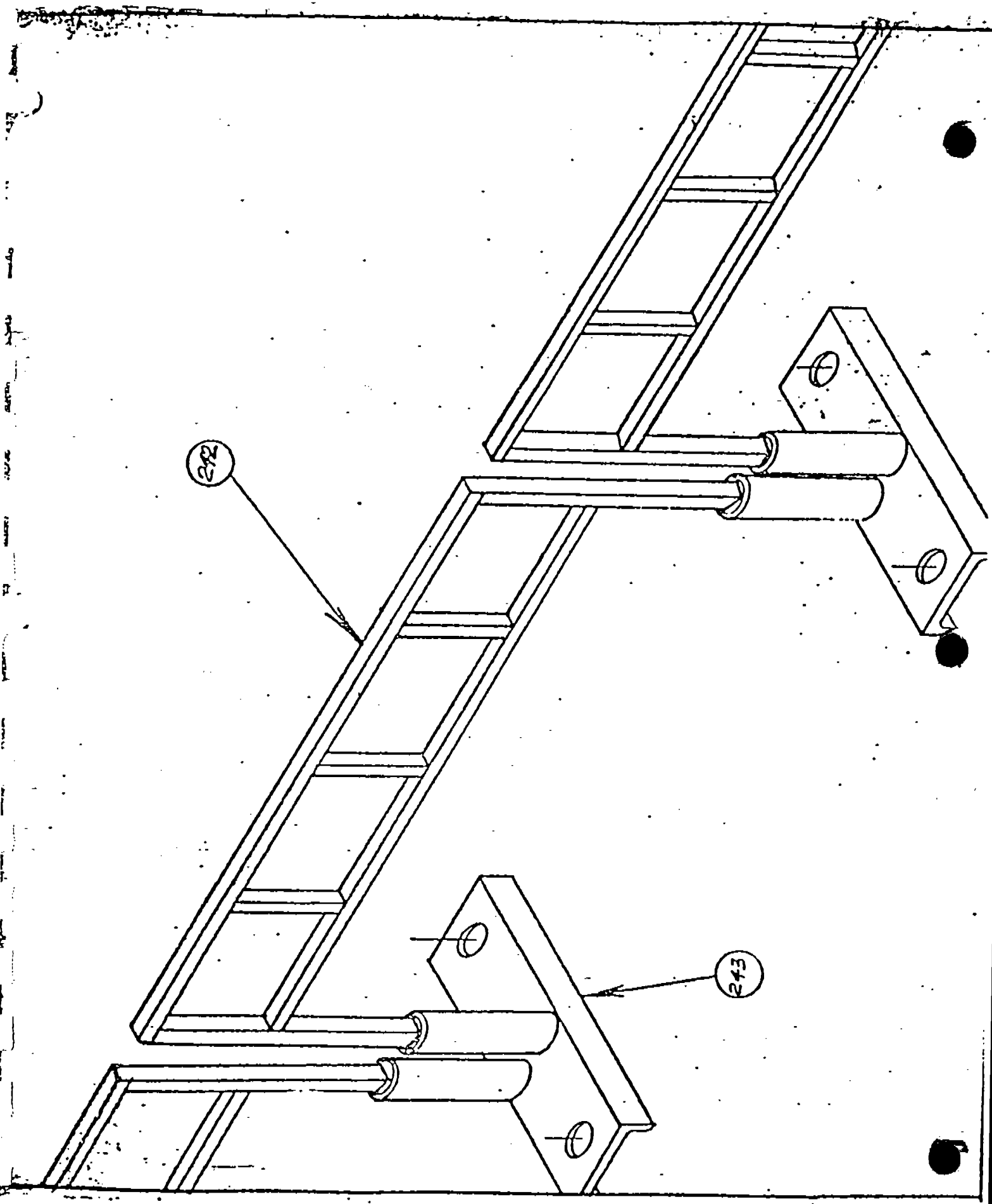
NATIONAL SEAL # 5005-5
Reference # 15 CR13738

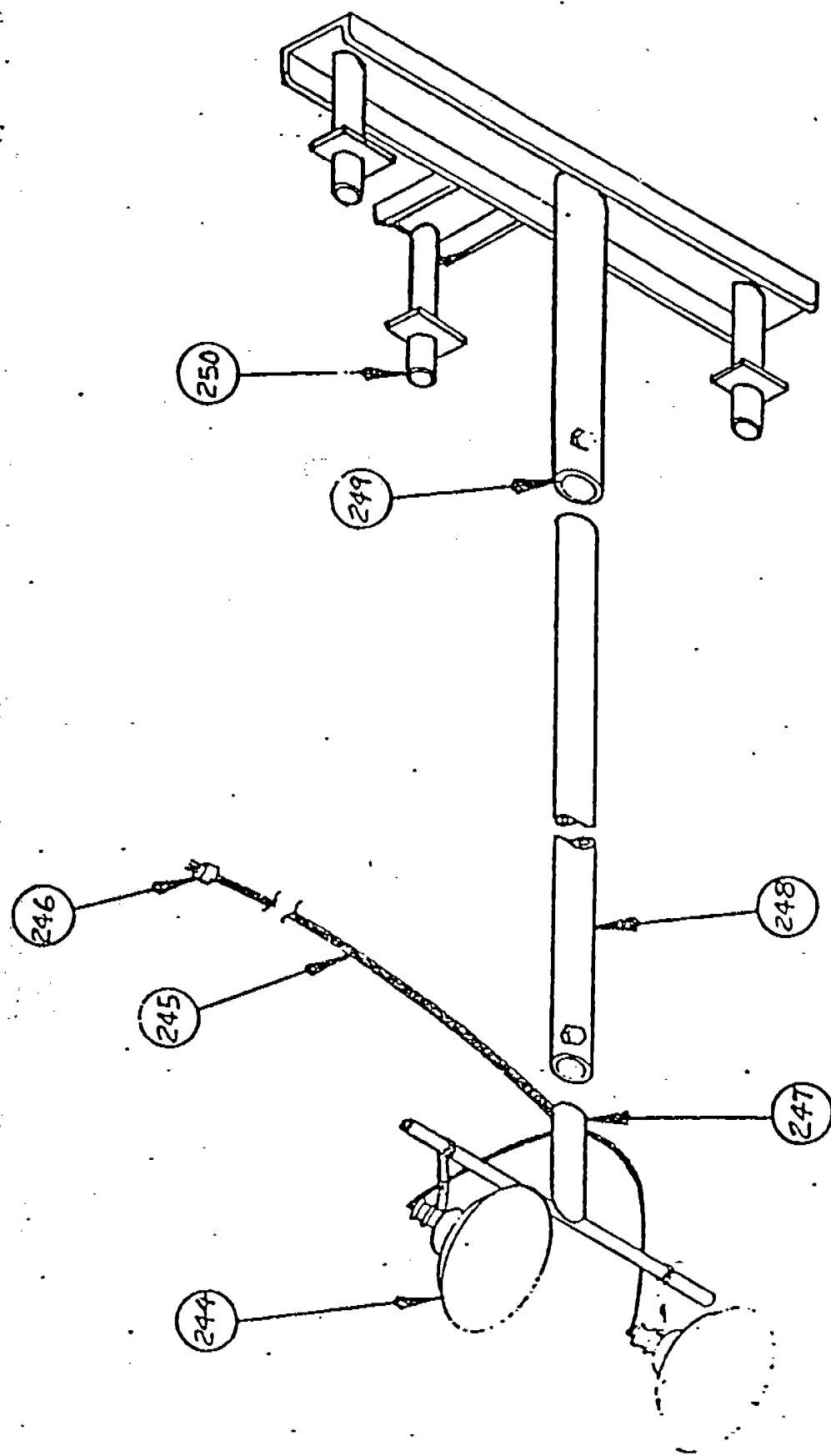
GEAR DRIVE ASSEMBLY

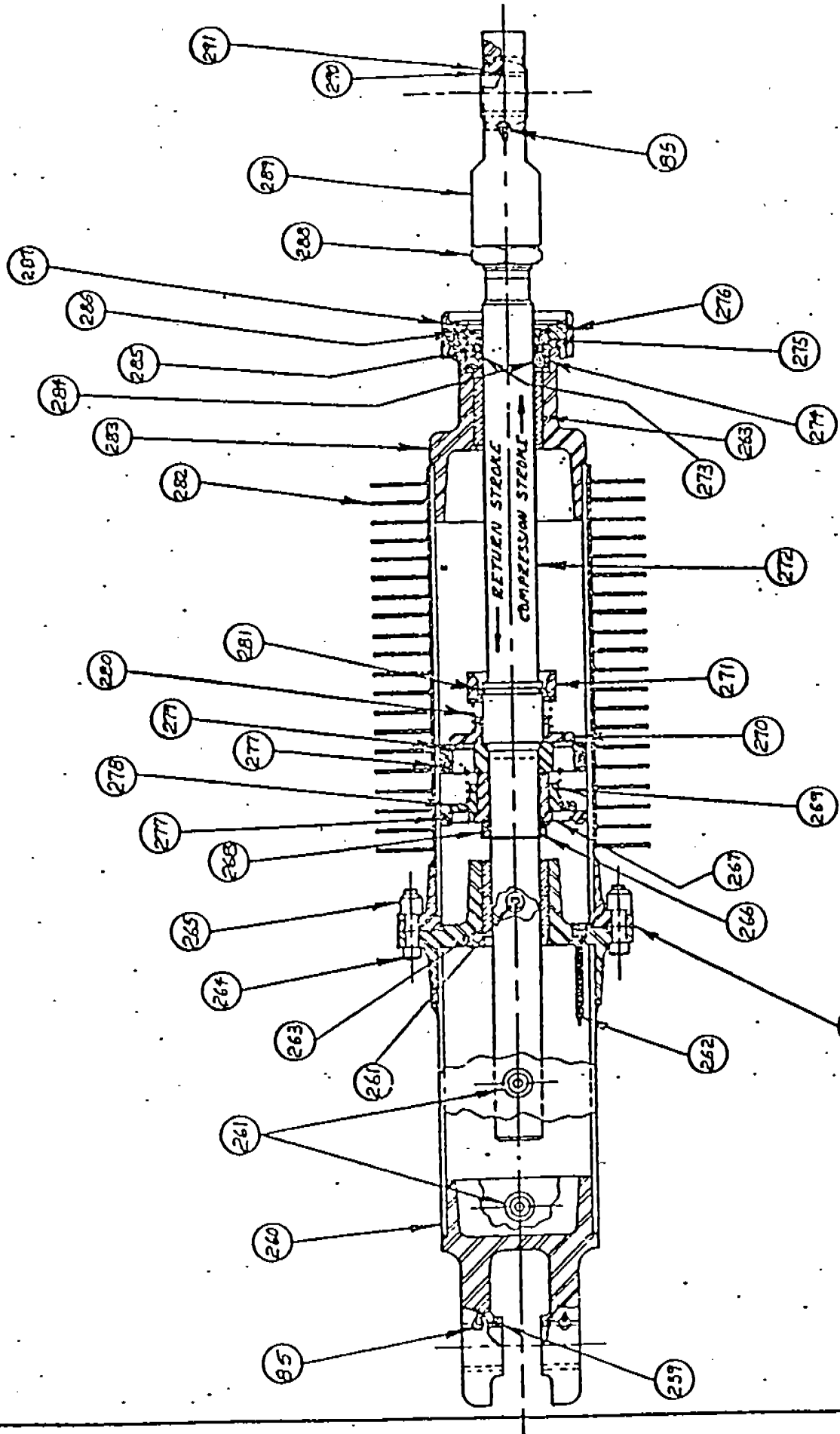


NOTE:
INDICATE WHICH SPROCKET AND PACKING IS DESIRED.









OPERATING EXPLANATIONS

(1) USE AUTOMATIC TRANSMISSION FLUID TYPE "A" (5 1/2 QUARTS)

(2) SPEED OF RETURN STROKE .7 SECOND

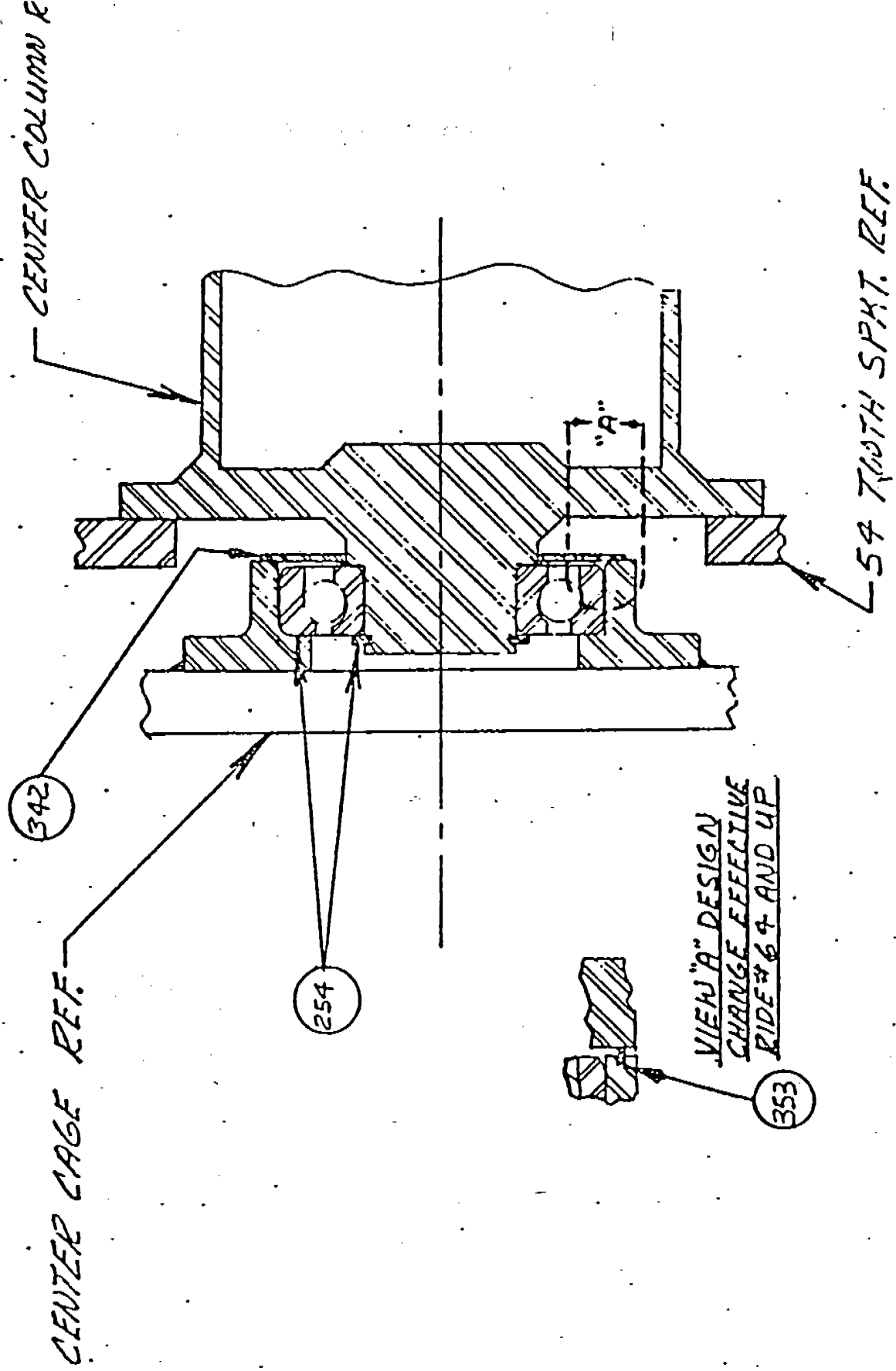
(3) SPEED OF COMPRESSION STROKE 2 TO 3 SECONDS

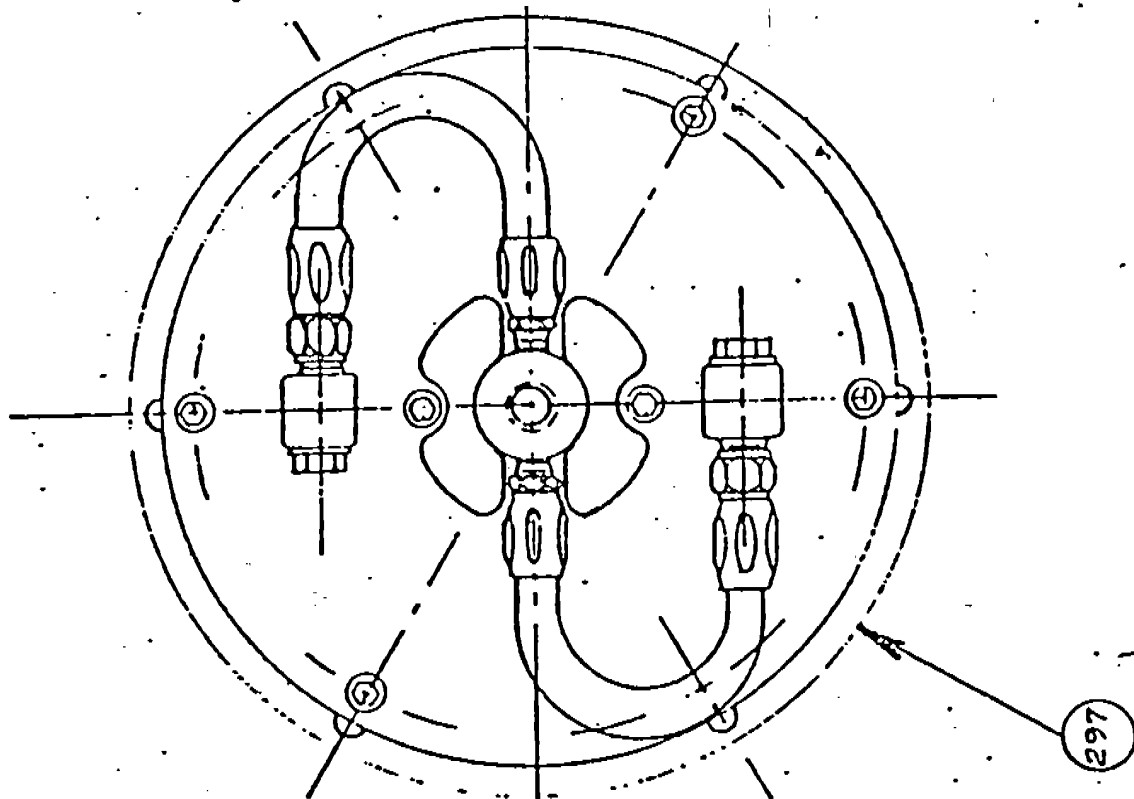
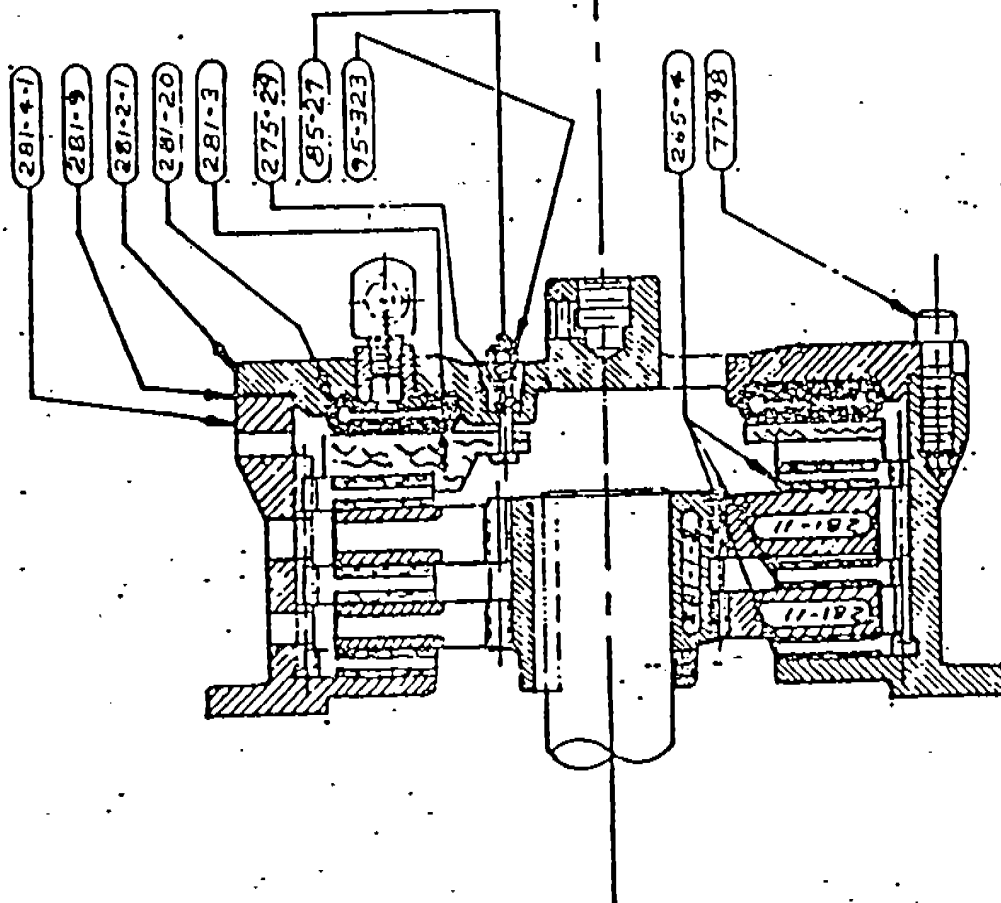
(4) MAX. PRESSURE DURING COMPRESSION STROKE 1400 PSI.

(5) MAX. ANTICIPATED OPERATING TEMPERATURE 275°F.

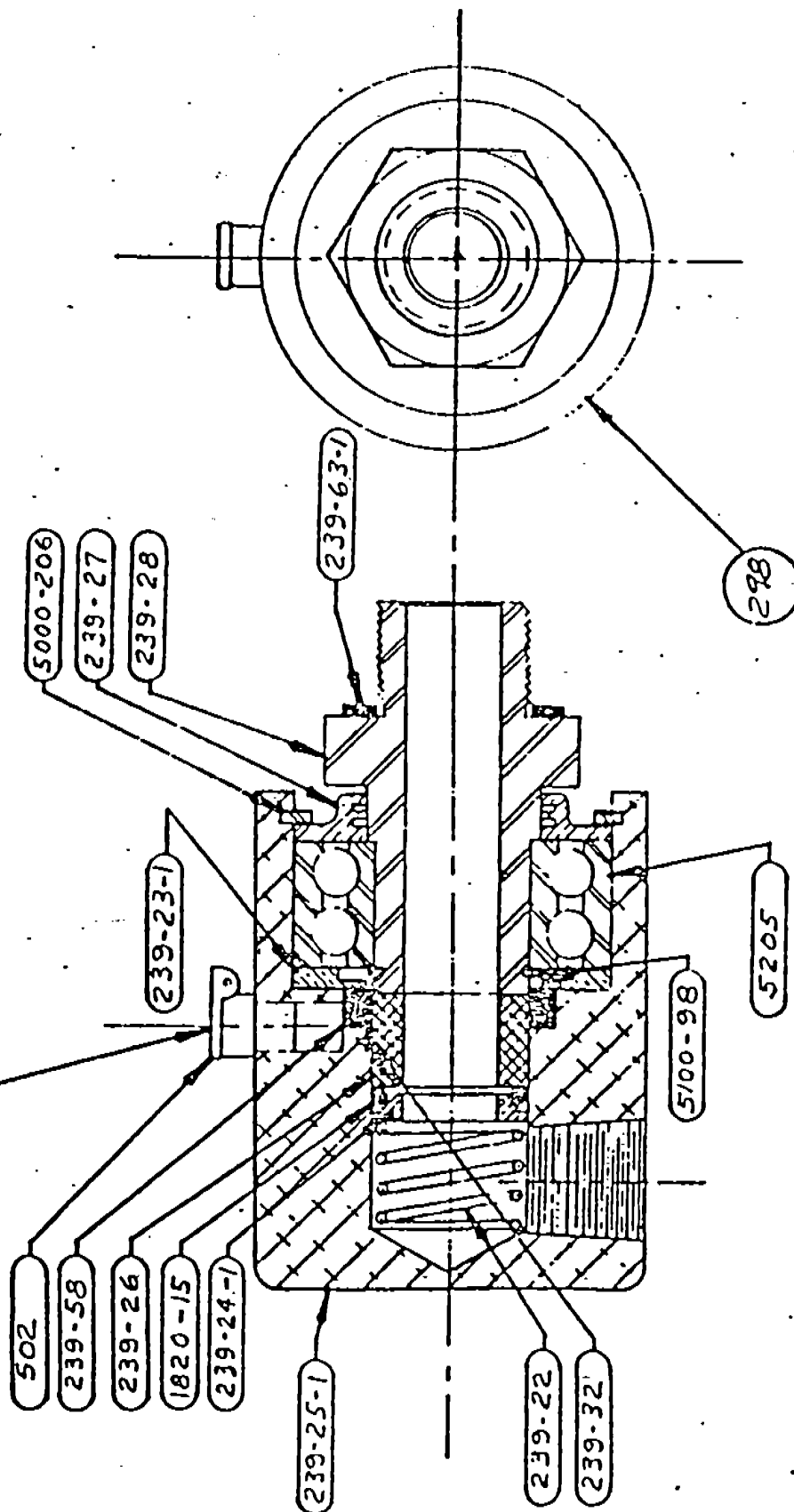
(6) WITH ATMOSPHERIC TEMPERATURE 100°F.

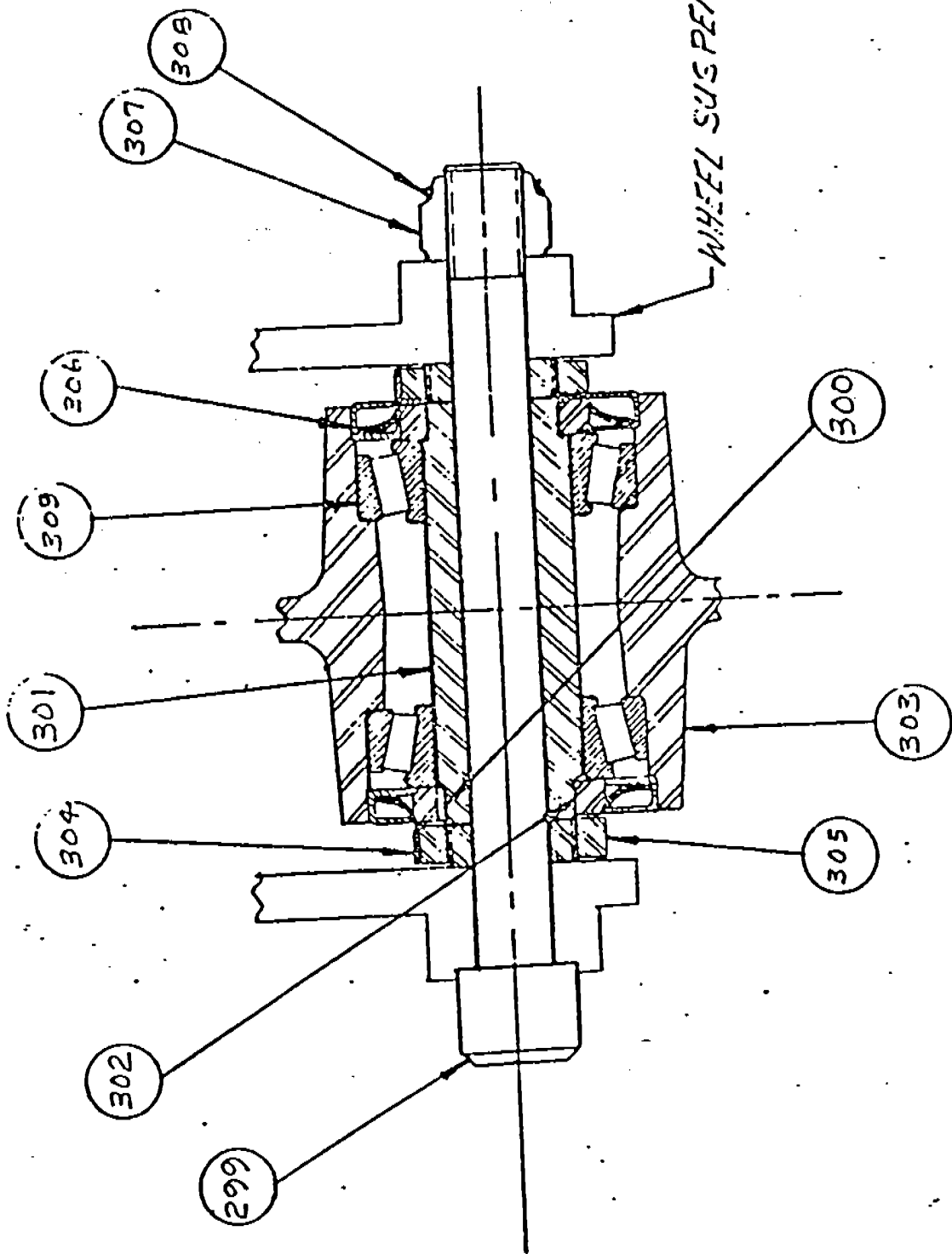
TO CHECK FLUID LEVEL: WITH SWEEPON LEVEL TRACK, REMOVE BOTH FILLED PLUGS "ITEM 261" IN UPPER CYLINDER BARREL. PULL OUT UPPER PLUG UNTIL FLUID OVERFLOWS THE LOWER PLUG, EDWARDS ALL PLUGS.



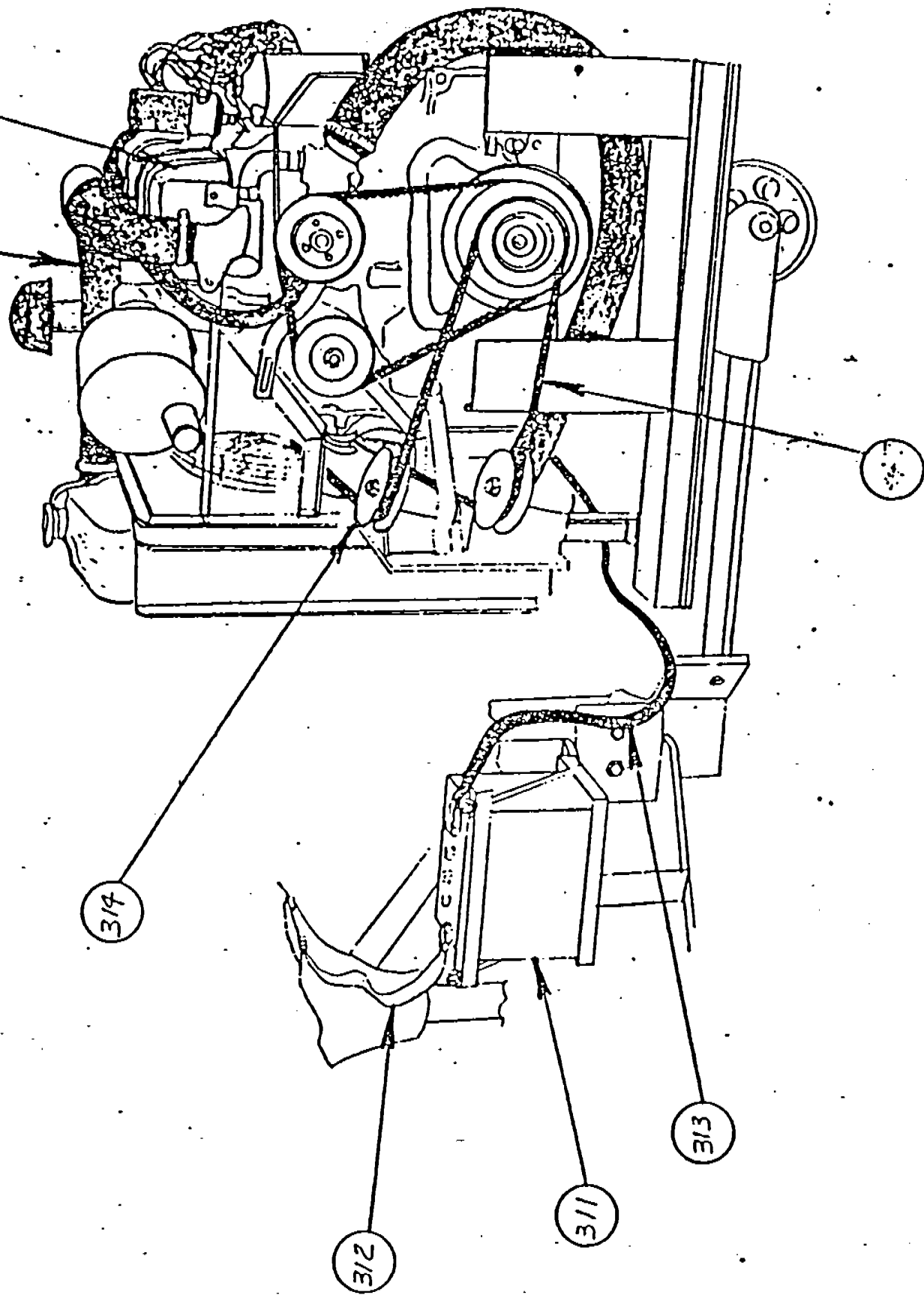


OIL ORICE DAILY MINIMUM

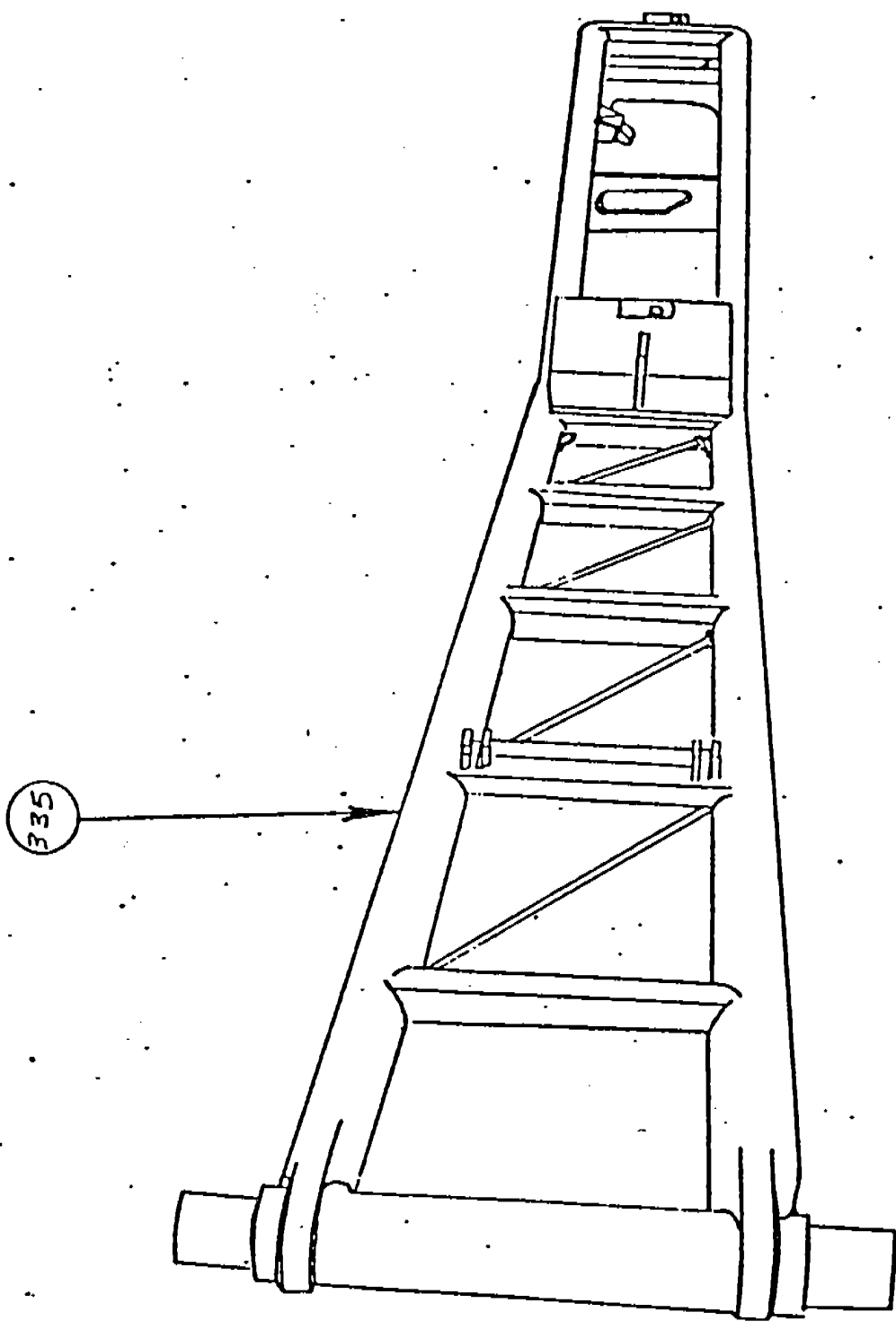


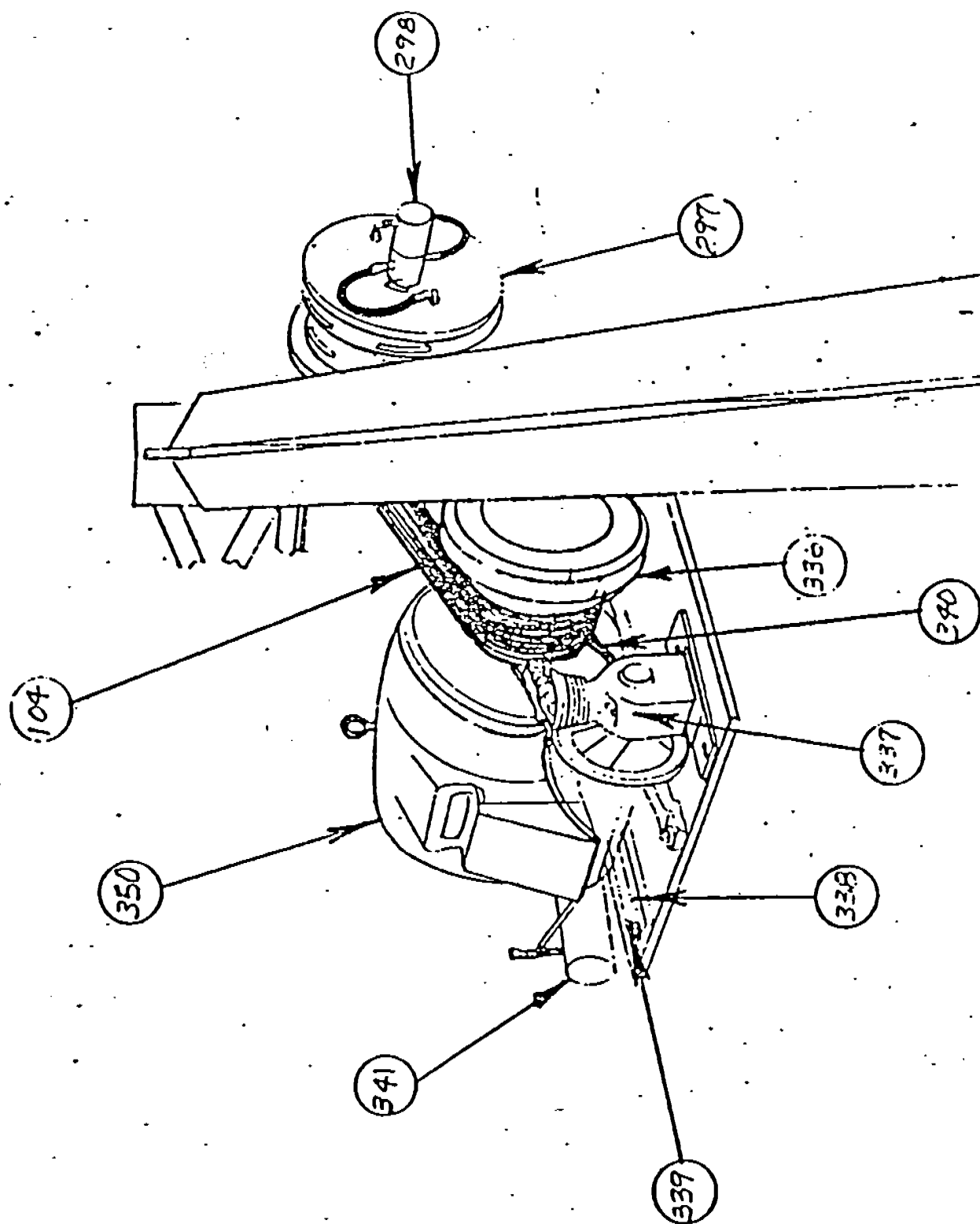


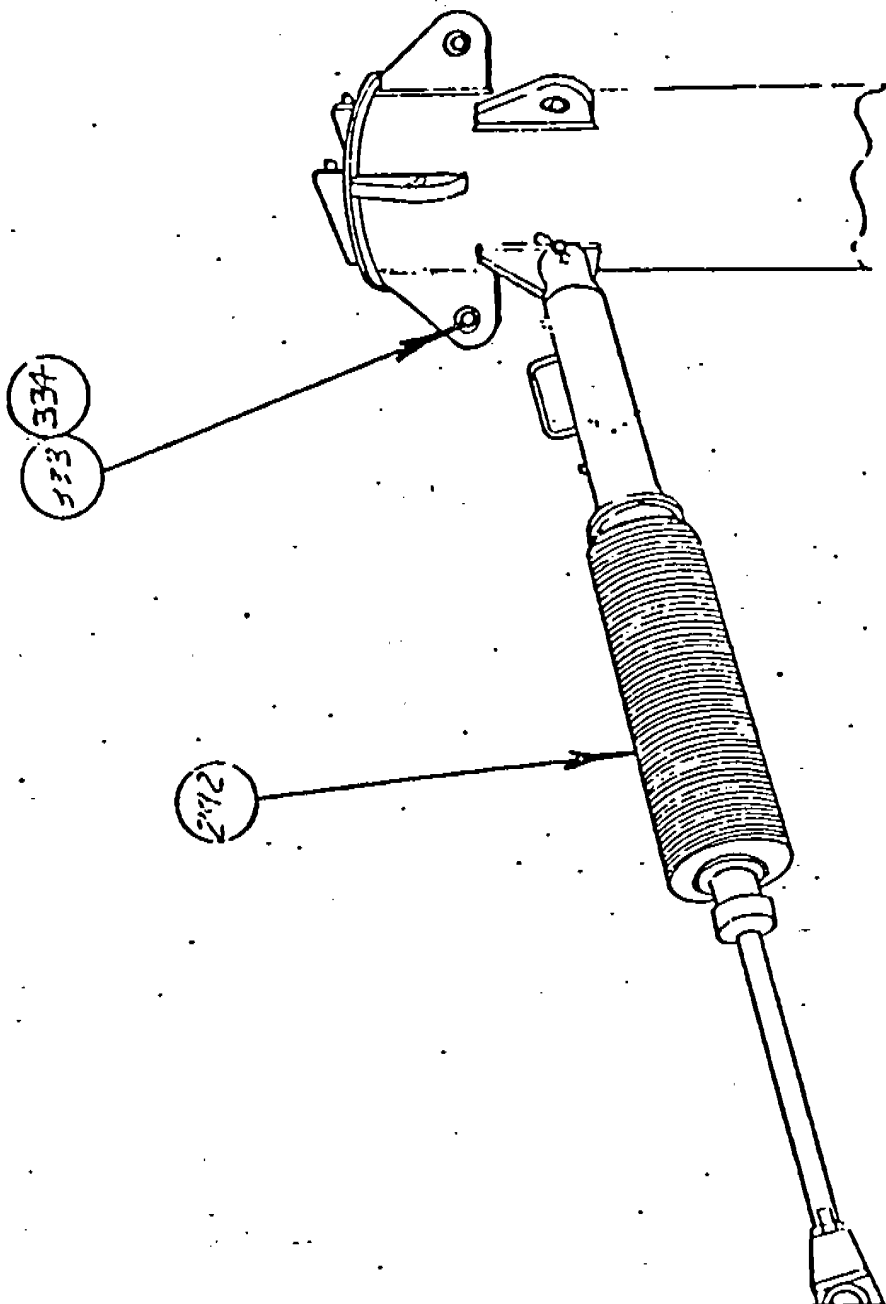
WHEEL SUSPENSION REF

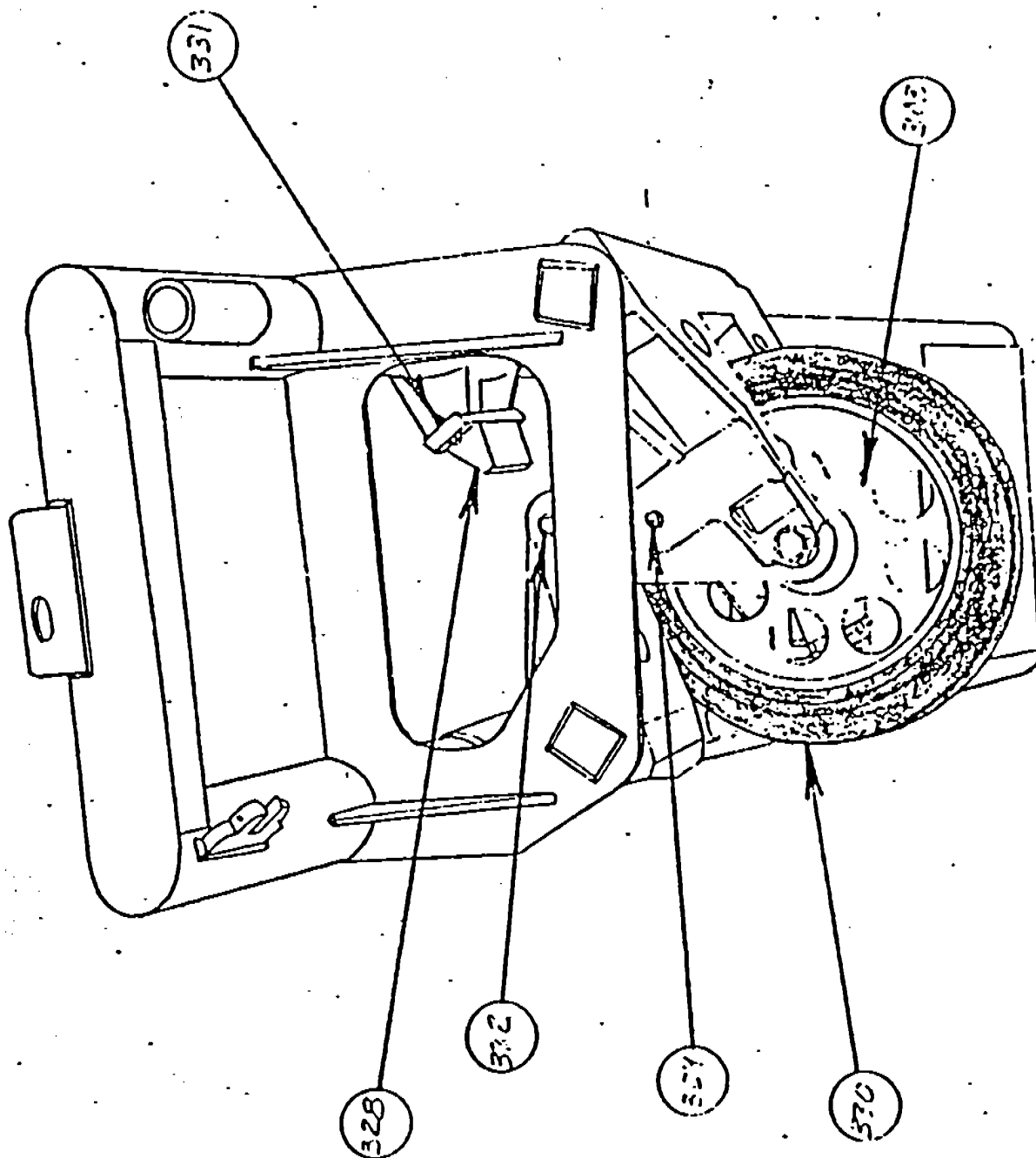


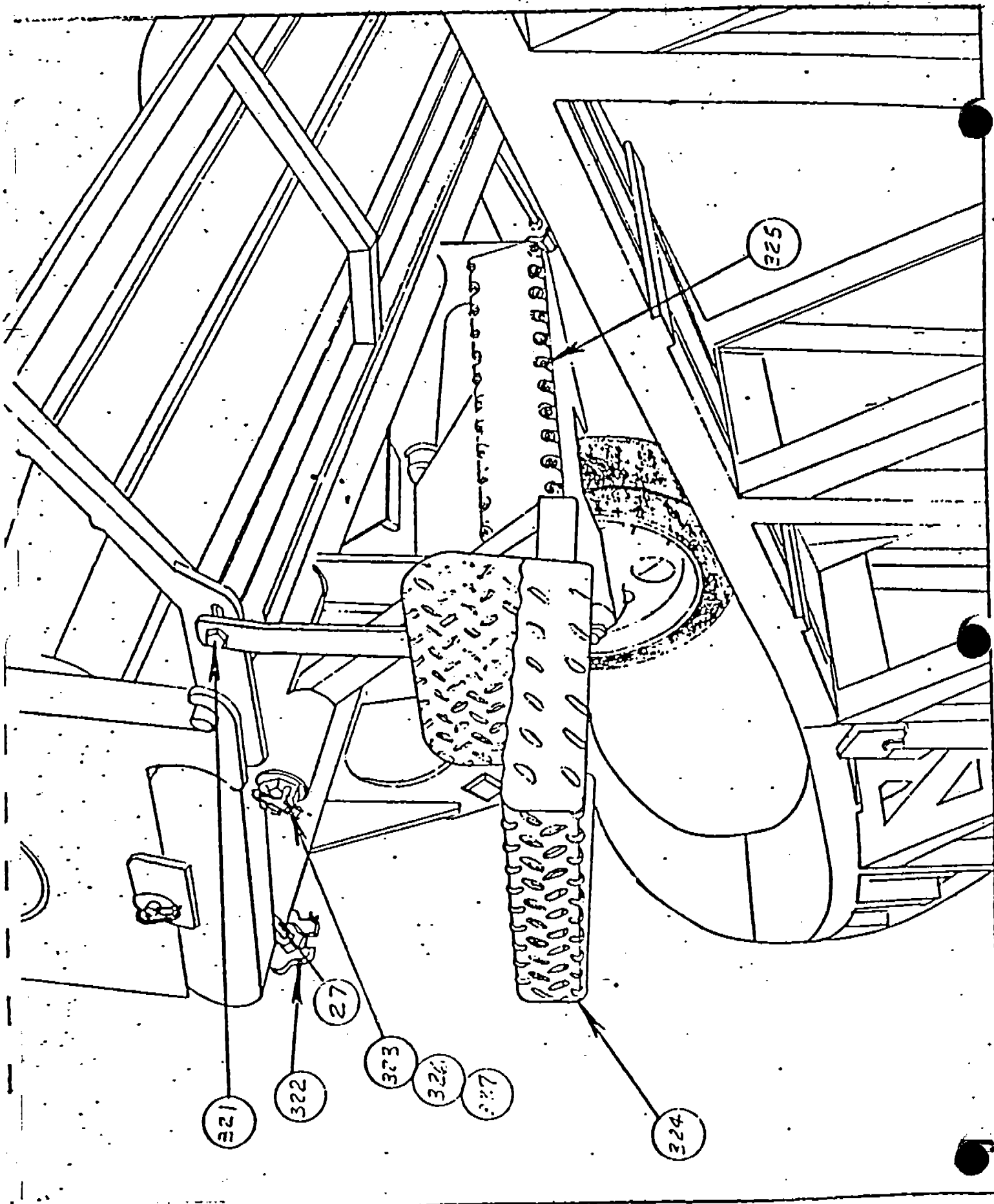
24-5-30







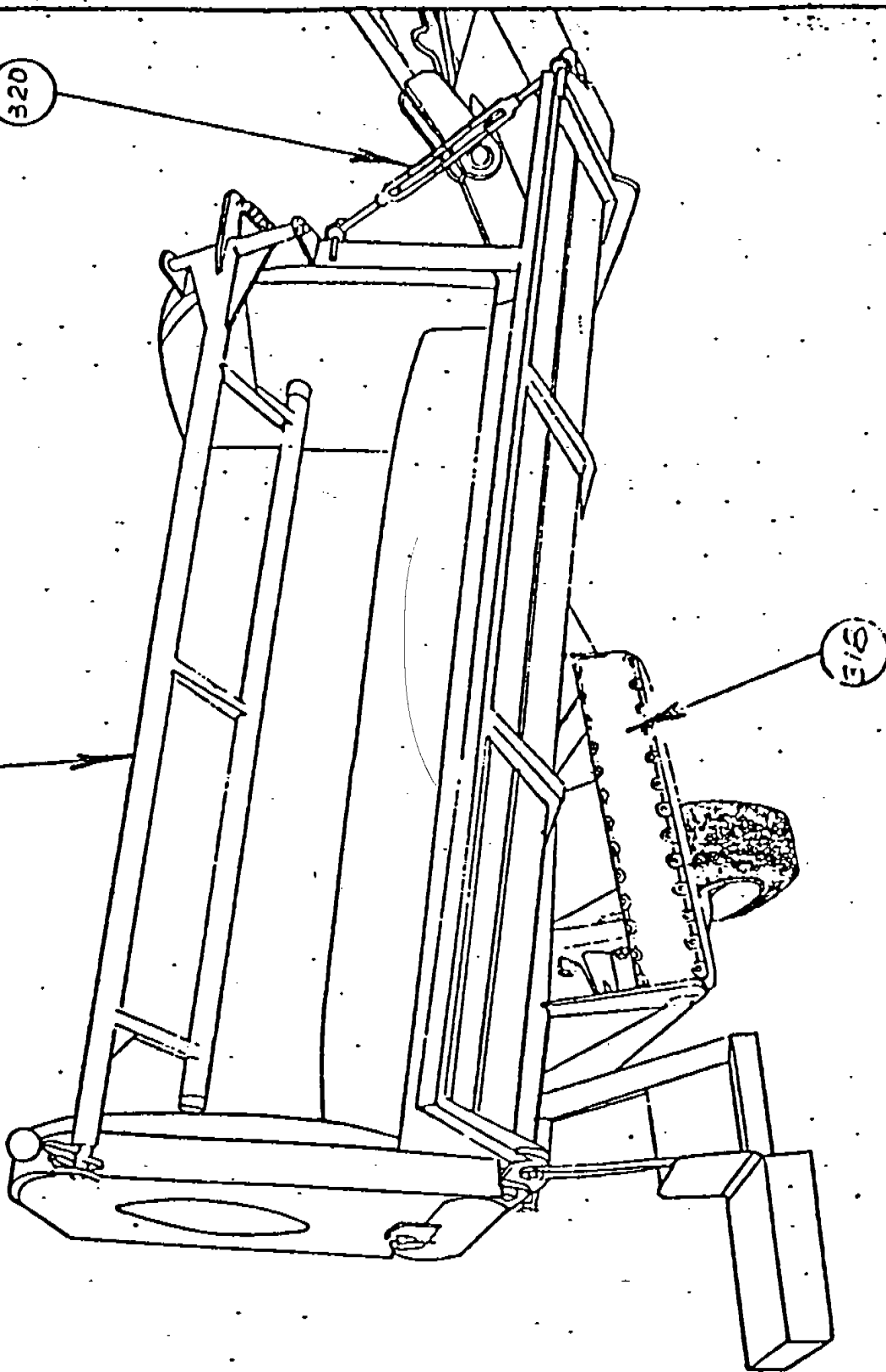


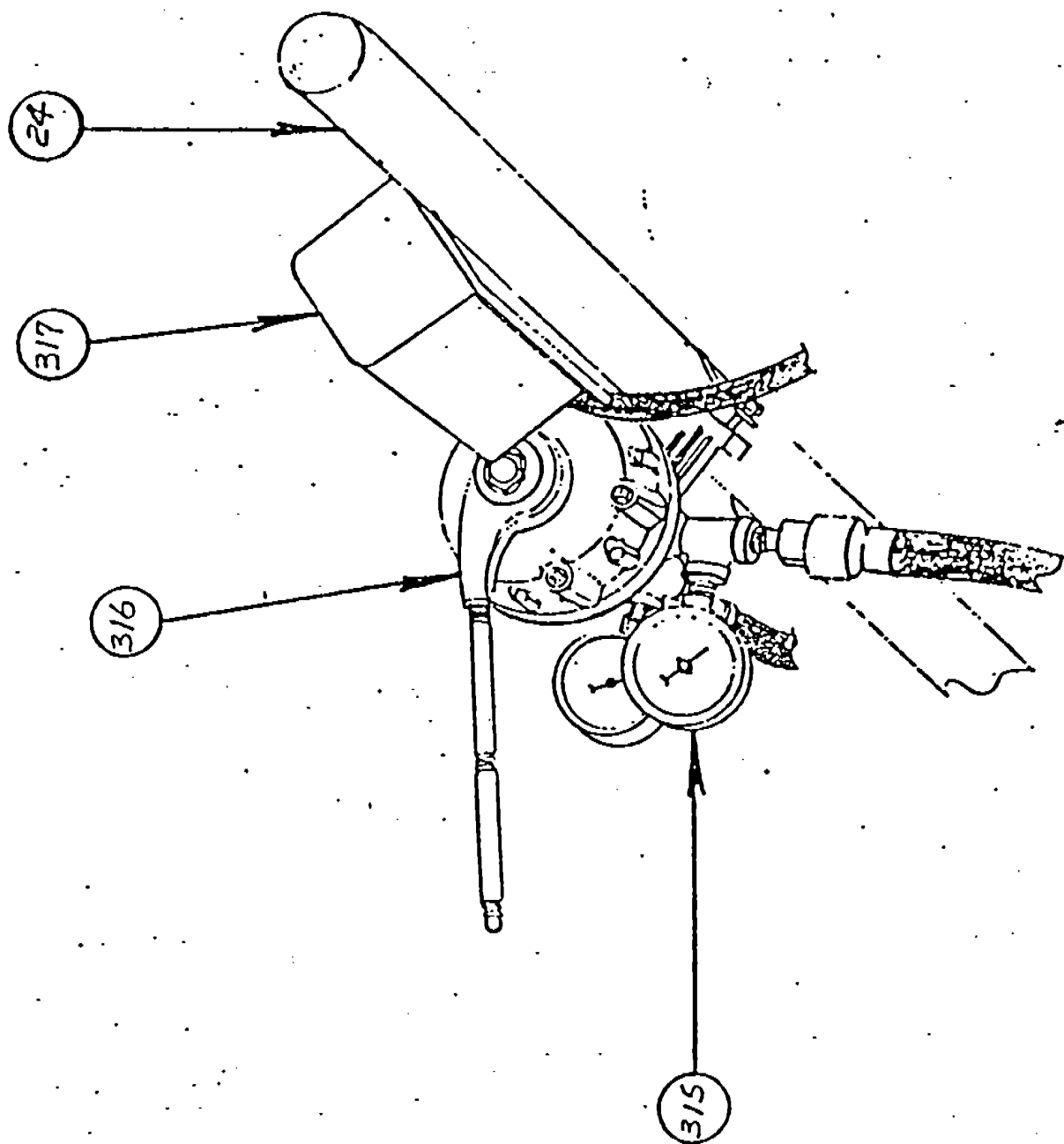


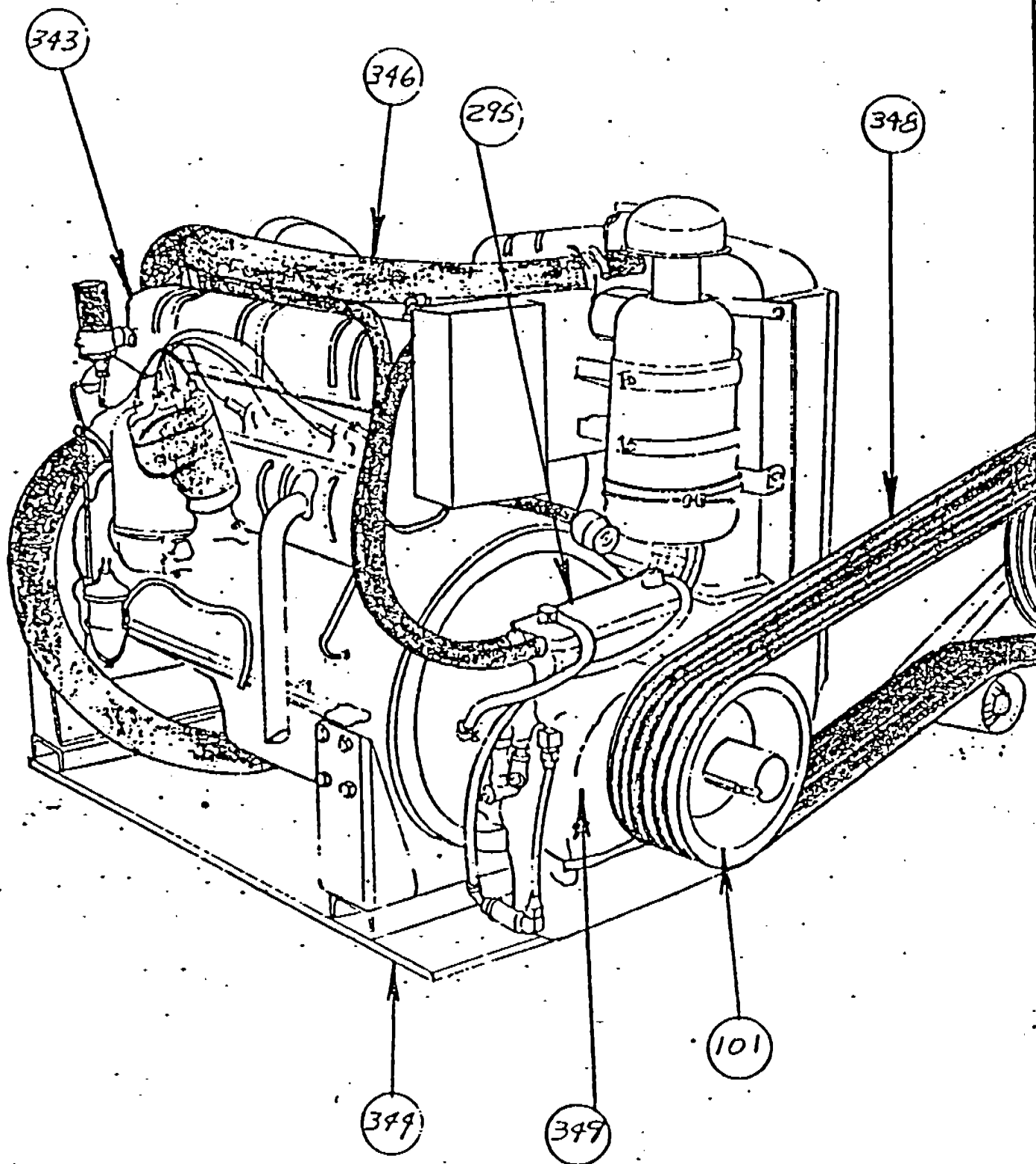
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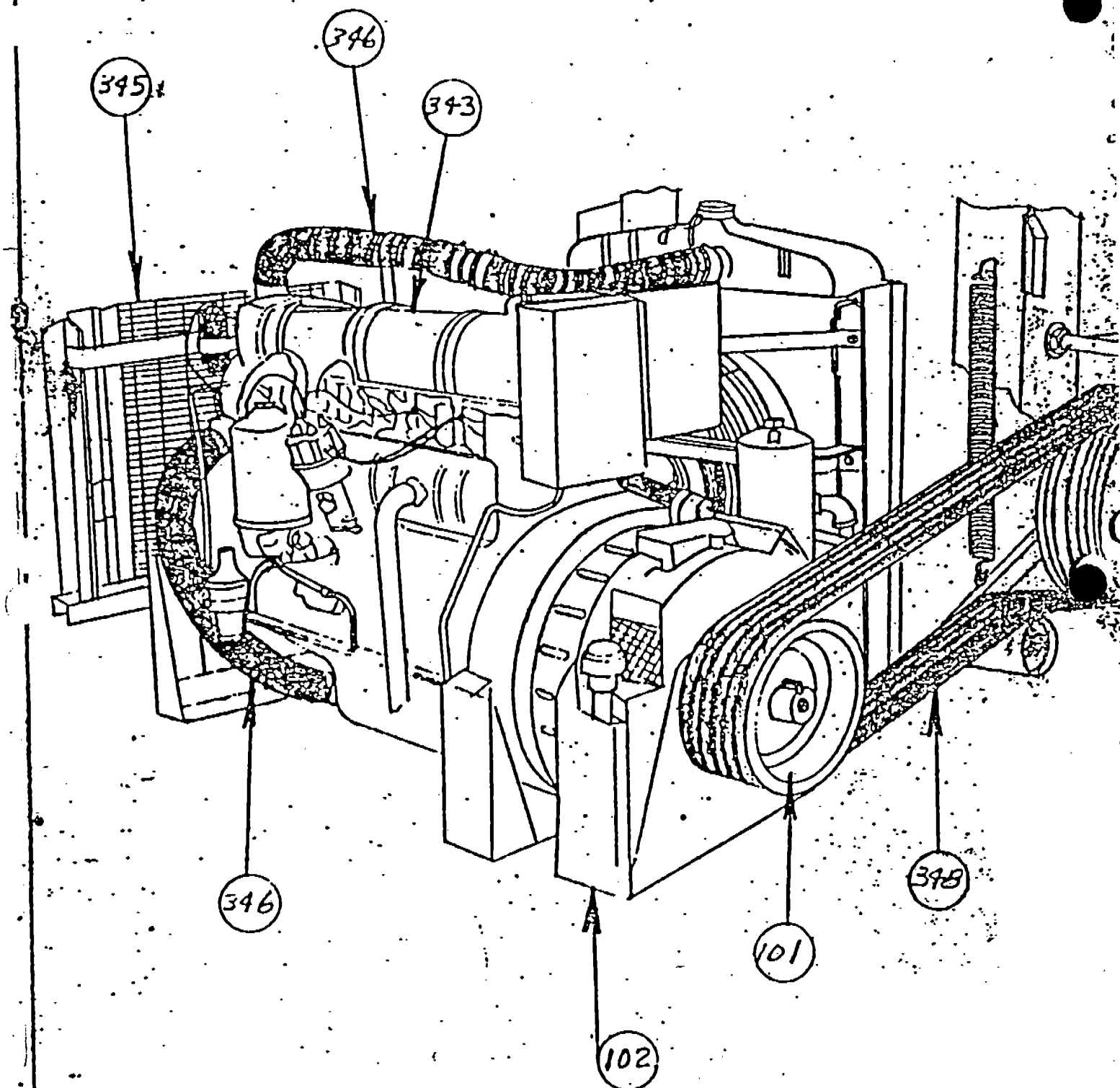
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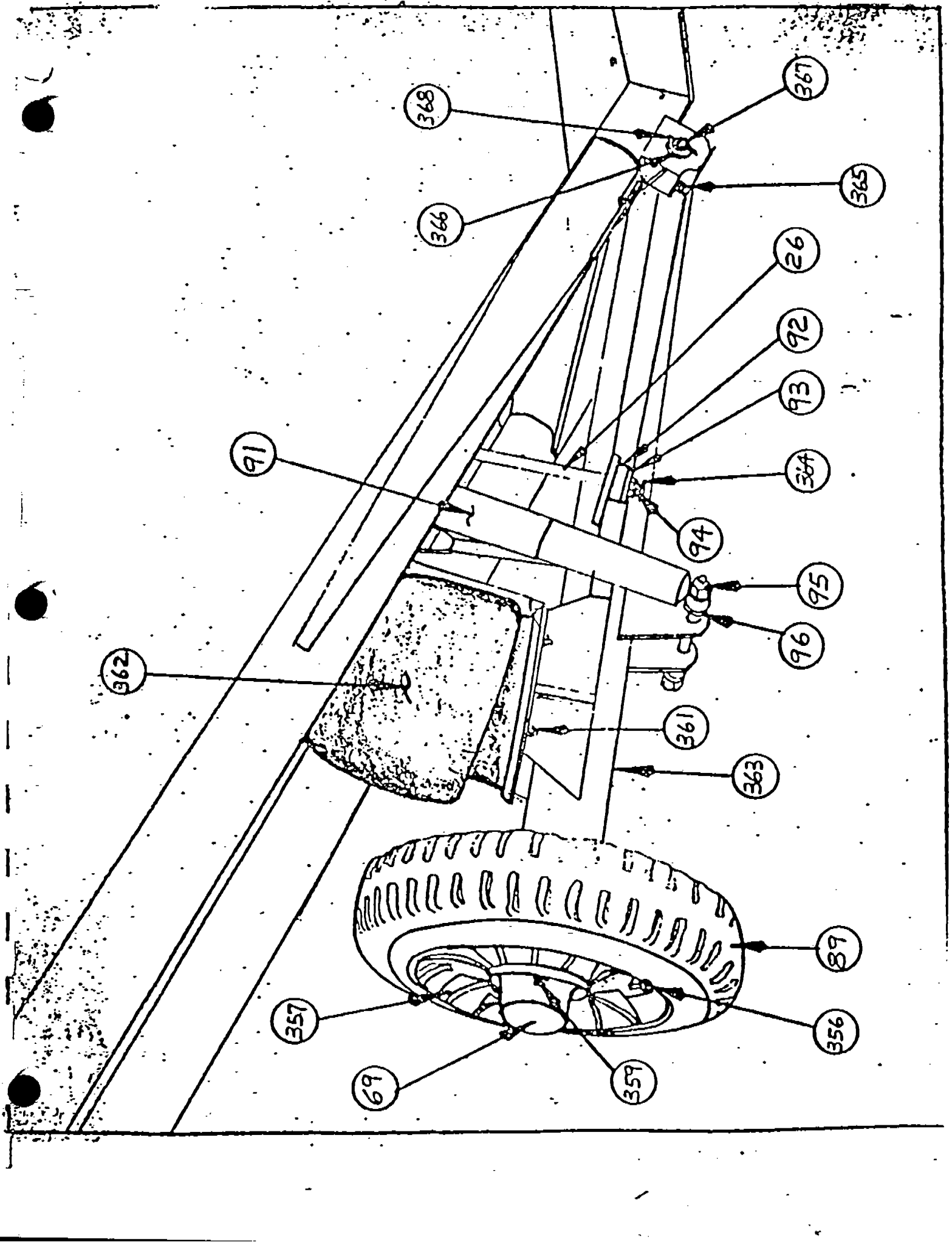
319

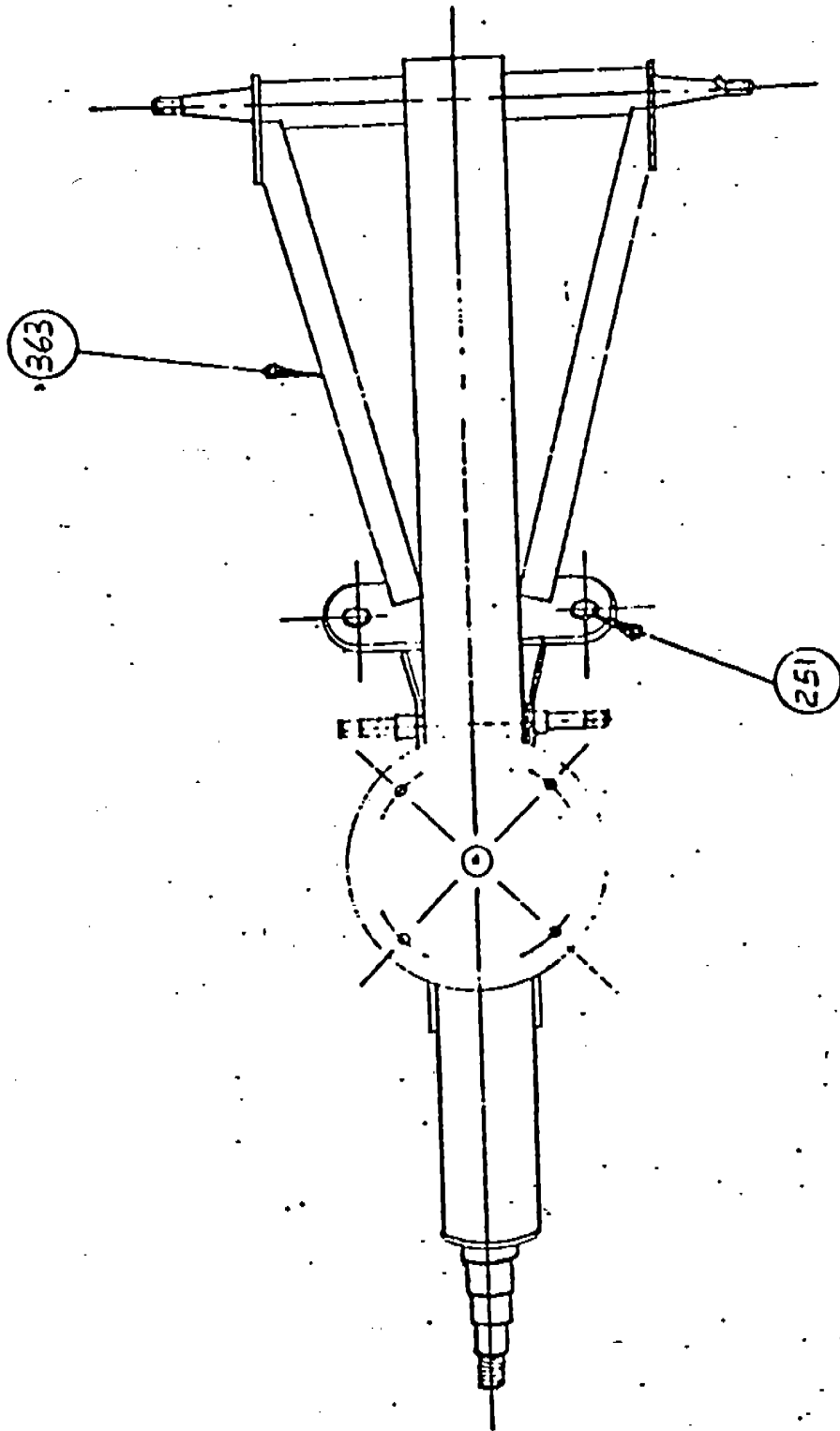


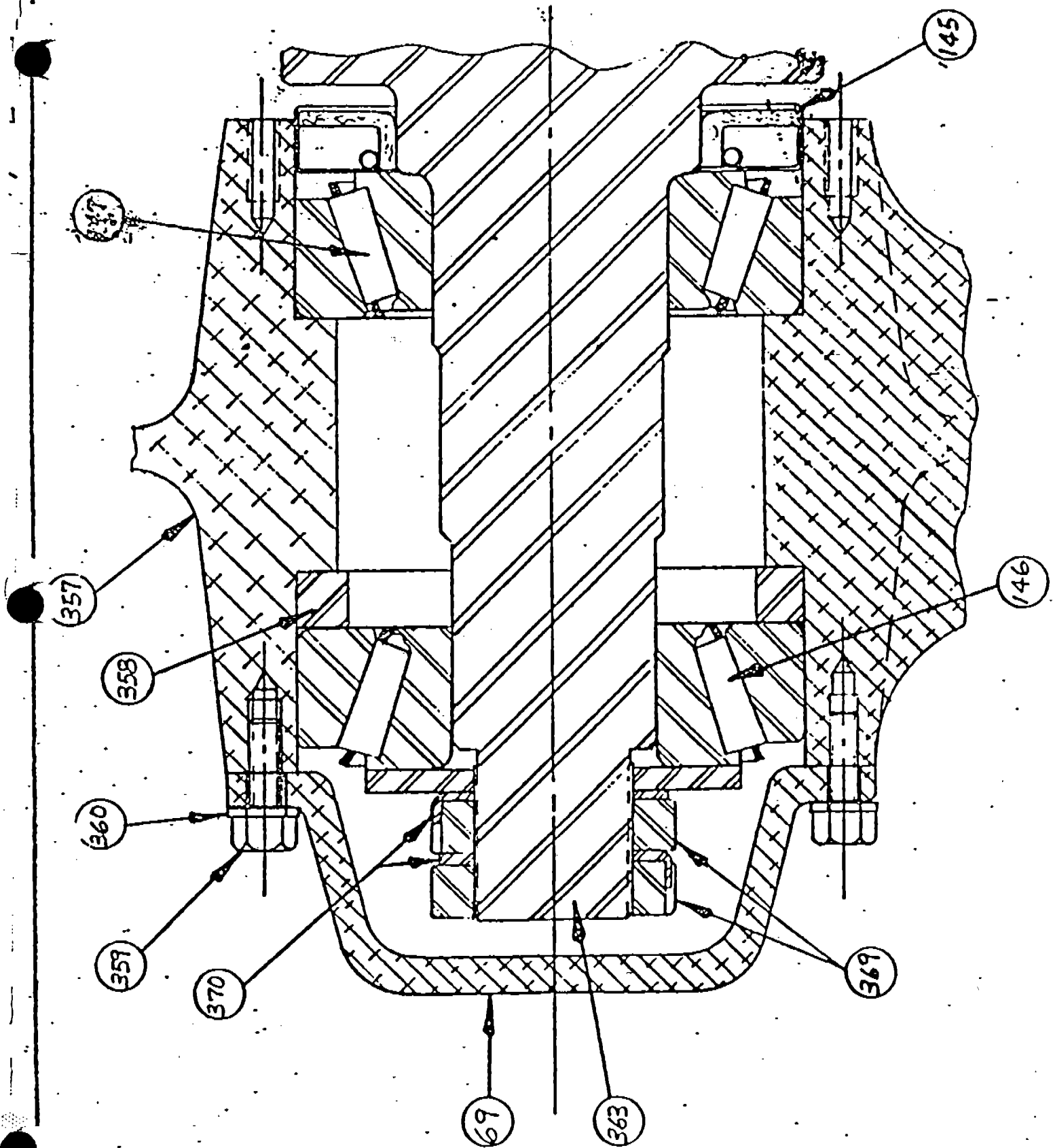


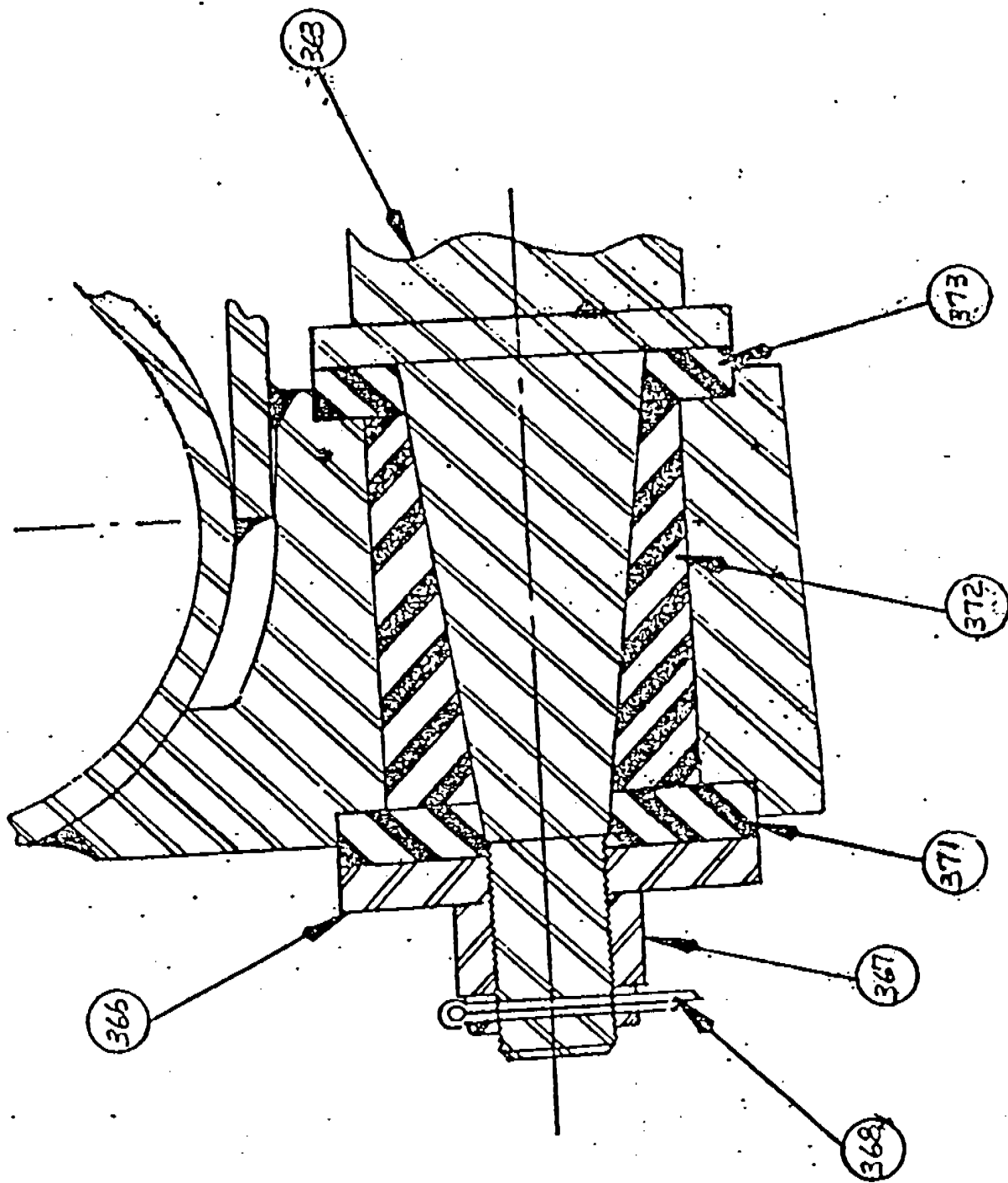


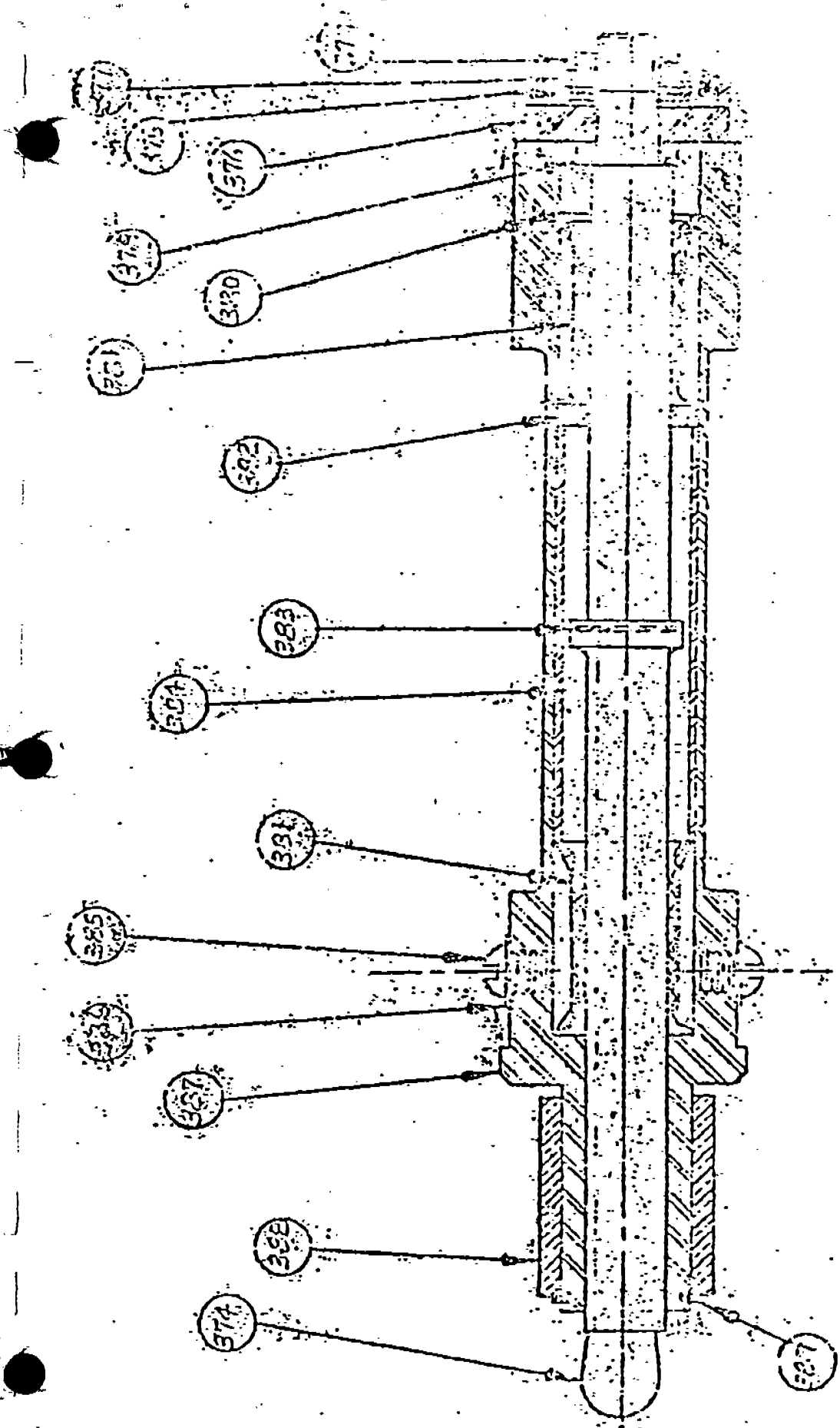






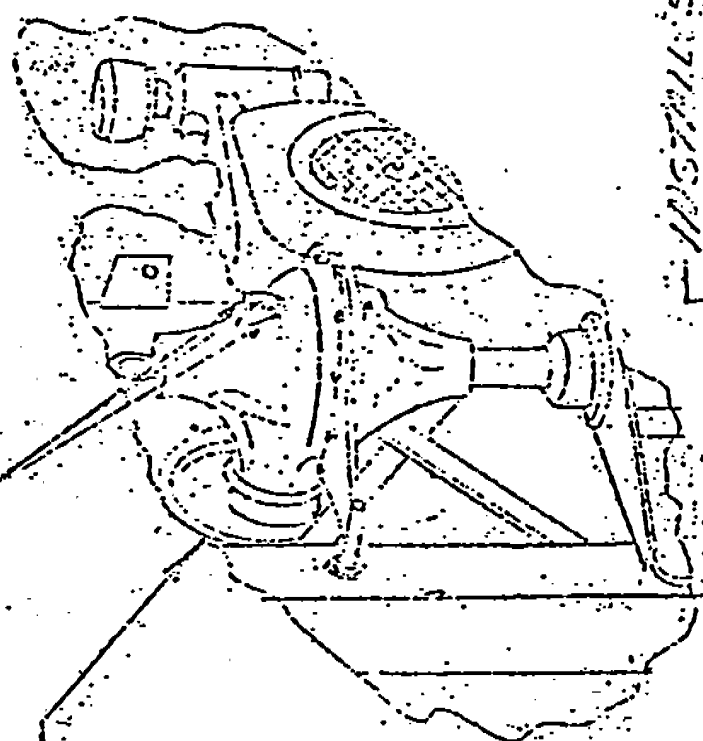




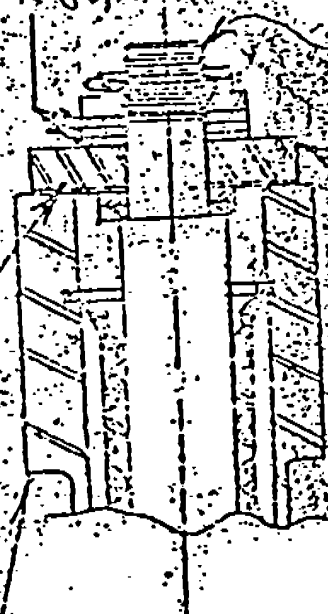


SAFETY FOR LOCK SHOWN ABOVE. NOTE THE POSITION OF THE
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1. INSTALL SUPPLY LINE
 2. INSTALL SUPPLY LINE
 3. INSTALL SUPPLY LINE



INSTALL SUPPLY LINE
 1. INSTALL SUPPLY LINE
 2. INSTALL SUPPLY LINE



TO INSURE
 OF WISHER'S
 SIDE OF
 EQUIPMENT
 ONE WISHER'S

