THE NEW POWER PLUS

CAT-A-GATOR
All - Terrain

PARTS & SERVICE MANUAL FOR SERIES 618-619 — 830-837

PRICE $7.00

CAT-A-GATOR CORP. BOX 202 HAMEL, MINN.

PREFACE

Your Cat-A-Gator is one of the finest all-terrain amphibious vehicles on the market.

This vehicle, designed for rugged off the road use, like all things mechanical, must be operated and serviced properly to obtain top running performance.

Please read this manual carefully before operation to insure trouble free operation and long life.

Refer to this manual for:

Operating instructions
Maintenance practices
Recommended replacement parts

Your Cat-A-Gator has been manufactured by skilled technicians. The all-welded steel body and carefully designed mechanism is intended to deliver many hours of reliable service. Care in its use, however, is imperative to performance. The engine, built by one of the world's leading manufacturers is carefully machined and assembled with rigid and close supervision to meet exact specifications

Your pride in your purchase will increase with respectful operation of this fine machine. Remember, you are the determining factor at its controls.

CAT-A-GATOR CORPORATION
Box 206
Hamel, Minn. 55340
Phone 612/478-6600

PARTS ORDERING INSTRUCTIONS

Your Cat-A-Gator warranty is an integral part of your purchase.

Your warranty is not effective unless you fill in and mail the warranty card furnished with your machine.

In communications concerning your Cat-A-Gator, please include the following information. This information will aid in returning the proper part with fast effective service. Contact your local dealer for Cat-A-Gator repair parts.

Model No._____ Engine No._____ Serial No._____
Part No._____ Description_____
_____
Type of Terrain_____
Mounted Equipment_____
Purchased From_____
Hours Equipment Operated_____

CONTENTS

OPERATING PROCEDURES — 6-WHEEL

READ THESE INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR CAT-A-GATOR

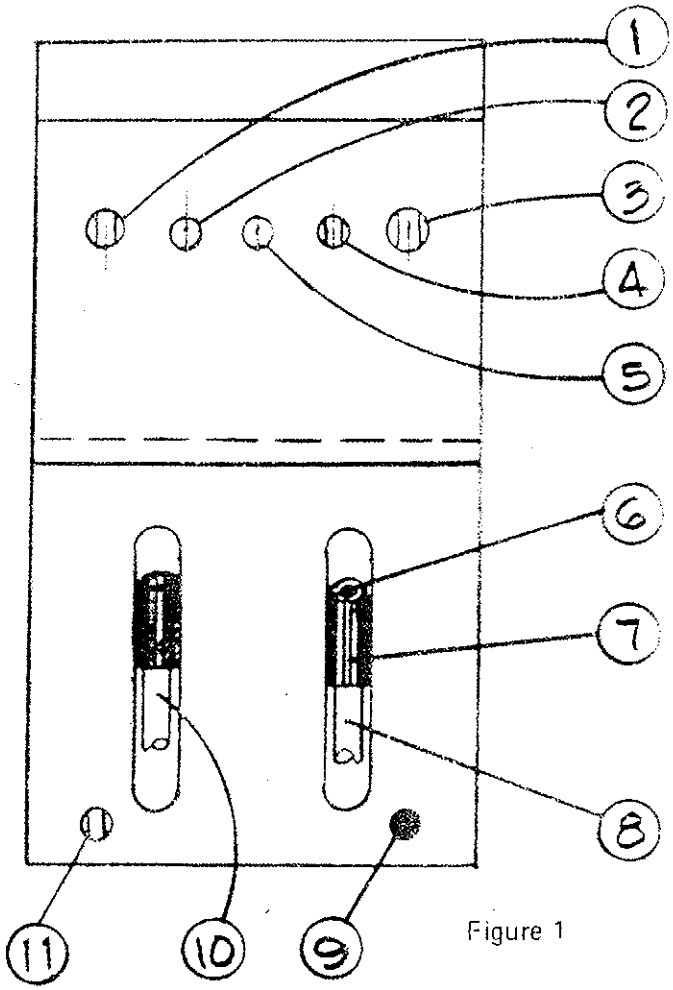


Figure 1

CONTROLS NAMED

1. LIGHT SWITCH
2. GENERATOR LIGHT
3. IGNITION SWITCH
4. WIPER SWITCH
5. OIL LIGHT
6. SOLENOID RELEASE BUTTON*
7. HAND GRIP
8. RIGHT STEERING LEVER
9. CHOKE
10. LEFT STEERING LEVER
11. HEATER SWITCH

*Applies to 8-Wheel only.

BEFORE STARTING make sure the engine has been filled with oil and fuel. If engine fails to start at first attempt, inhibitor oil used at the factory may have fouled the spark plugs. Remove plugs, clean in gasoline, dry thoroughly and re-install. Heavy exhaust smoke when the engine is first started is normal and is caused by the inhibitor oil.

FUEL: Use clean, fresh, regular grade automotive gasoline. Do not use highly leaded premium fuels. Never fill tank when engine is running. Leave fuel expansion space. Open fuel line valve (when used) and operate primer rod to assure fuel supply. (See Figure 2, page 4)

CRANKCASE OIL: Use good quality detergent oil meeting API (American Petroleum Institute) service designations MS, MS/DG. Recommended SAE oil numbers for expected ambient temperatures are as follows:

Above 90 F	SAE 50
30 F to 90 F	SAE 30
0 F to 30 F	SAE 10W
Below 0 F	SAE 5W (5W-20 if 5W is not available)

OIL CAPACITY

MANUAL START — 3 qts. ELECTRIC START — 3½ qts.

Refer to Engine Maintenance Section for complete information.

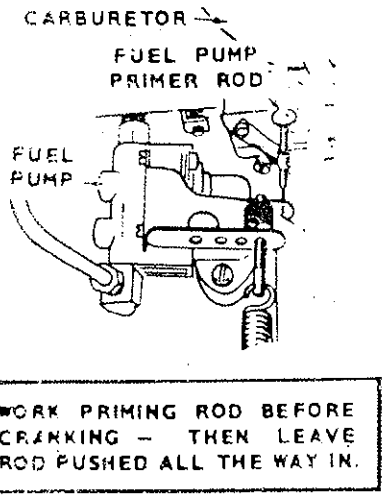


Figure 2

TO START lift choke on manual choke machine to full choke. (NOTE: See engine operating manual for priming and carbureting adjustments.)

Snap the ignition switch to "On" then continue to rotate key clockwise to engage starter.

After engine starts pull both steering levers to neutral and rev up motor. Since auto torque drive will be engaged past 1400 RPM it is necessary that the levers be held in neutral position during warm up. Complete warm up of engine is imperative on very cold days.

Now machine is in operating position. To go forward, rev motor slightly and slowly allow levers to assume forward position. They are spring loaded to remain forward. Accelerate to desired speed.

TO REVERSE, pull both levers toward operator until reverse action is attained.

TO TURN RIGHT, pull right steering lever only. (NOTE: Turns take more power because of reverse steering action, so depress accelerator to floor to make turns.)

TO TURN LEFT, pull left steering lever only.

TO STOP SLOWLY, pull both steering levers to neutral.

TO STOP RAPIDLY if going forward, pull both steering levers slightly past neutral to reverse position.

TO STOP RAPIDLY if going in reverse, allow levers to go past neutral to forward position.

READ THESE INSTRUCTIONS CAREFULLY BEFORE OPERATING YOUR CAT-A-GATOR

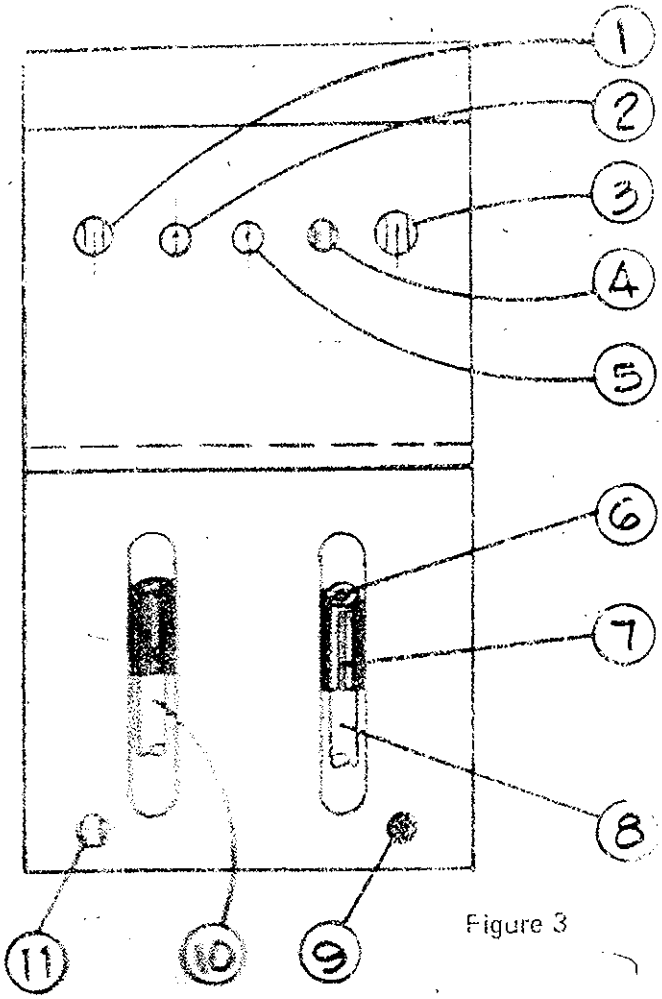


Figure 3

1. LIGHT SWITCH
2. GENERATOR LIGHT
3. IGNITION SWITCH
4. WIPER SWITCH
5. OIL LIGHT
6. SOLENOID RELEASE BUTTON
7. HAND GRIP
8. RIGHT STEERING LEVER
9. CHOKE
10. LEFT STEERING LEVER
11. HEATER SWITCH

BEFORE STARTING make sure the engine has been filled with oil and fuel. If engine fails to start at first attempt, inhibitor oil used at the factory may have fouled the spark plugs. Remove plugs, clean in gasoline, dry thoroughly and re-install. Heavy exhaust smoke when the engine is first started is normal and is caused by the inhibitor oil.

FUEL: Use clean, fresh, regular grade automotive gasoline. Do not use highly leaded premium fuels. Never fill tank when engine is running. Leave fuel expansion space. Open fuel valve line when used.

CRANKCASE OIL: Use good quality detergent oil meeting API (American Petroleum Institute) service designation MS. Recommended SAE oil numbers for expected ambient temperatures are as follows:

Above 30 F	SAE 30
30 F to 0 F	SAE 10 or SAE 10W-30
Below 0 F	SAE 5W-20

OIL CAPACITIES

24HP Kohler – 3½ qts. 30 HP Wisconsin – 4 qts. 37 HP Wisconsin – 5 qts.

OPERATING PROCEDURES -- 8-WHEEL (Continued)

To operate the 8-wheel Tat-A-Gator, turn ignition switch to right but do not engage starter. This energizes all controls. Push solenoid release button on top of right steering lever. This releases any pressure in start cylinder which might engage drive belt. (NOTE: On new machines, drive belt may be overly tight before run-in. If this occurs, pull both steering levers to neutral and hold with left arm while starting.)

See start instructions electrically cranked engines, page 4.

Hold engine in neutral position by pulling steering levers to neutral position indicated on panel. The foot pedal marked power is accelerator. Speed up engine slightly so that when power train engages, idling engine will not die.

To engage power train, push hydraulic speed change pedal one time to engage slowest speed. Each additional pump of pedal increases speed and decreases power.

Now machine is in operating position. TO GO FORWARD, release both steering levers. They are spring loaded in forward position.

TO REVERSE, pull both levers toward operator until reverse action is obtained.

TO TURN RIGHT, pull right steering lever ONLY. (NOTE: Turns take more power because of reverse steering action, so depress accelerator to floor to make turns.)

TO TURN LEFT, pull left steering lever ONLY.

TO STOP SLOWLY, pull both steering levers to neutral.

TO STOP RAPIDLY if going forward, pull steering levers slightly past neutral to reverse position.

TO STOP RAPIDLY if going in reverse, allow levers to go past neutral to forward position.

TO GEAR DOWN, tap solenoid release button. Each tap decreases speed at the same RPM of engine, and increases power.

TO ATTAIN NEUTRAL with levers in forward position, hold release button down for 3 seconds or until vehicle no longer wants to go forward.

IMPORTANT PROCEDURES TO REMEMBER

DO NOT IDLE MOTOR LONG WITH VEHICLE IN NEUTRAL. TO DO SO CAUSES UNDUE BELT WEAR.

DO NOT PULL LEVERS BACK WITH UNDUE FORCE OR DAMAGE TO KNUCKLE JOINTS MAY OCCUR.

BE SURE DRAIN PLUGS IN REAR OF MACHINE ARE INSTALLED BEFORE OPERATING VEHICLE IN WATER-(2) ¾" I.P.S. PLUGS DRAIN CHANNELS AFTER EACH USE IN WATER.

DO NOT BLOCK FLOW OF AIR AROUND ENGINE CAGE OR ENGINE DAMAGE MAY OCCUR DUE TO OVERHEATING.

MAINTAIN TIRE PRESSURE AT 40 LB. TO PREVENT TRACK WALK-OFF.

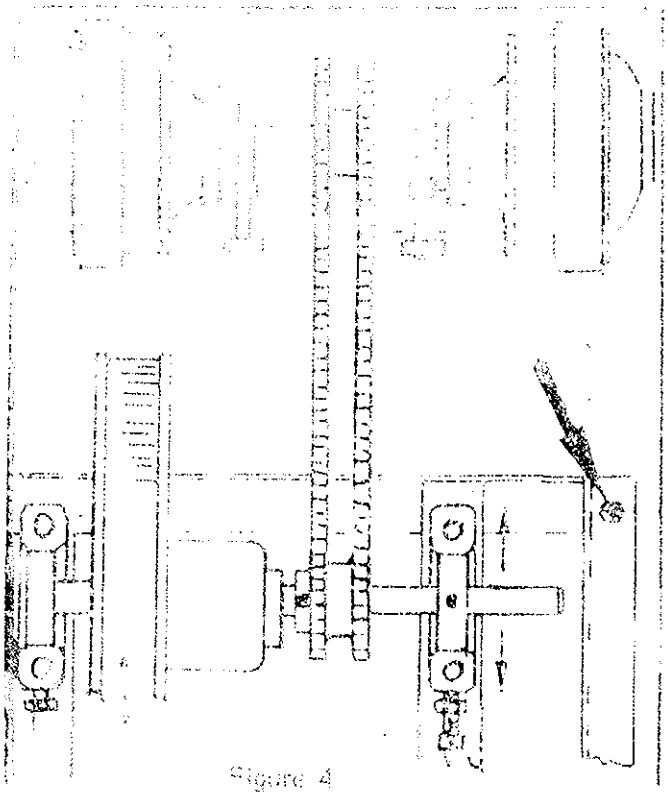


Figure 4

MAINTENANCE

1. CHAIN ADJUSTMENT

A. Main Drive Chain Adjustment - 6-wheel (See Figure 4)

1. Wear in chains and sprockets will occur over a period of time resulting in loose chains. Usually this is indicated by a loud noise in chain movement and possibly a chain jumping off the sprocket teeth.

2. To tighten main drive chain on 6-wheel units, loosen 4 bolts on motor frame corners and move frame to rear. Chain should have only ¼" play.

B. Main Drive Chain Adjustment - 4-wheel (See Figure 5)

1. Loosen 4 bolts on 2 pillow blocks as shown in Figure 5.

2. Pull jack shaft assembly to rear until drive chain has only ¼" play.

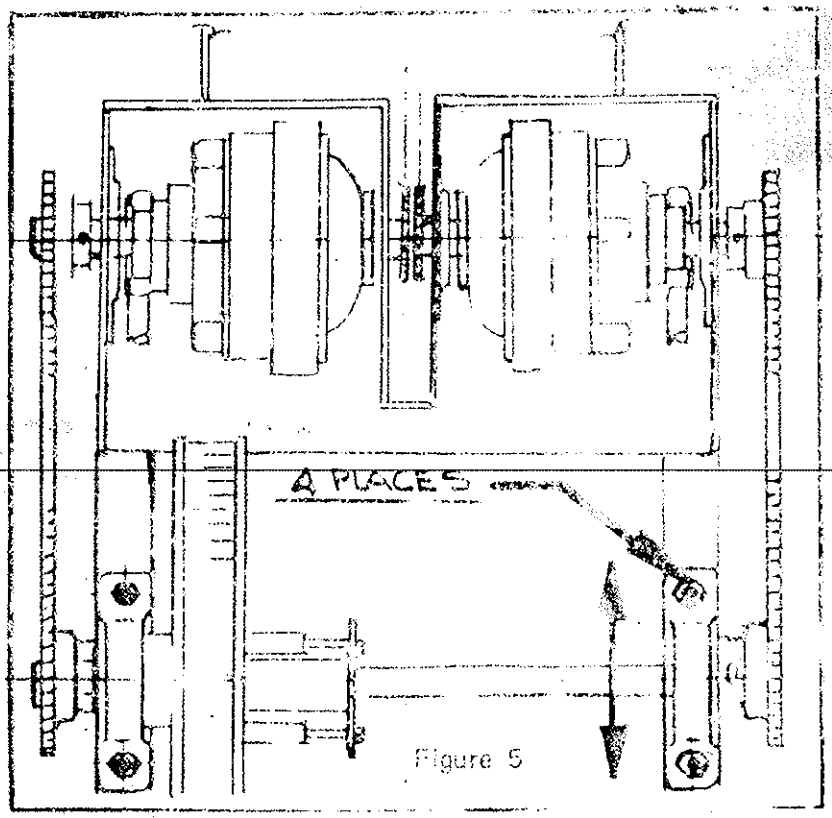


Figure 5

C. Wheel Chain Adjustment

1. Remove motor cage and plate under seat.

2. Loosen bolts on idler sprockets just enough so that they remain somewhat snug.

3. Push idler sprockets downward until top of chain has only ¼" play. Tighten bolts.

To tighten chain "H" first loosen bolts "D" then back off set screw "B". Move set screw "B" ahead to accomplish desired tension and tighten set screw "B" and bolts "D".

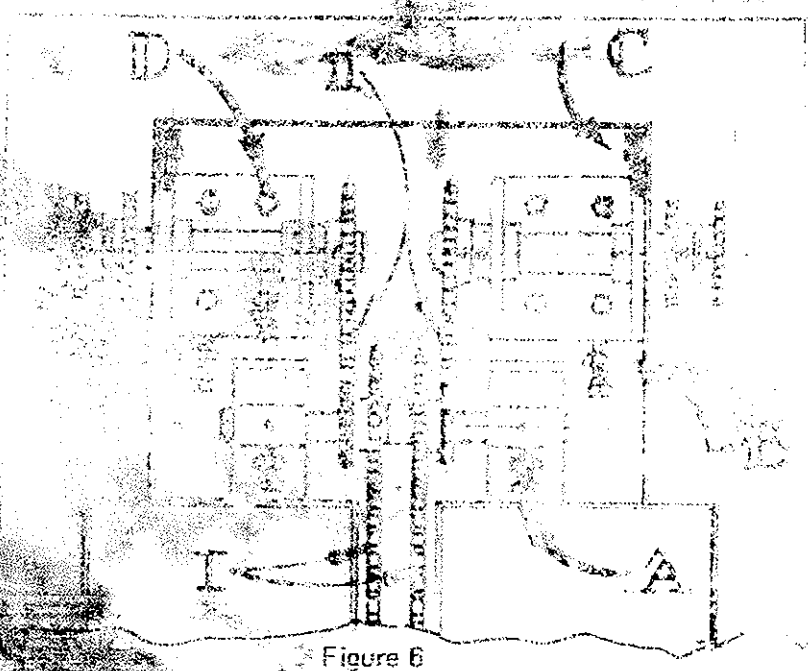


Figure 6

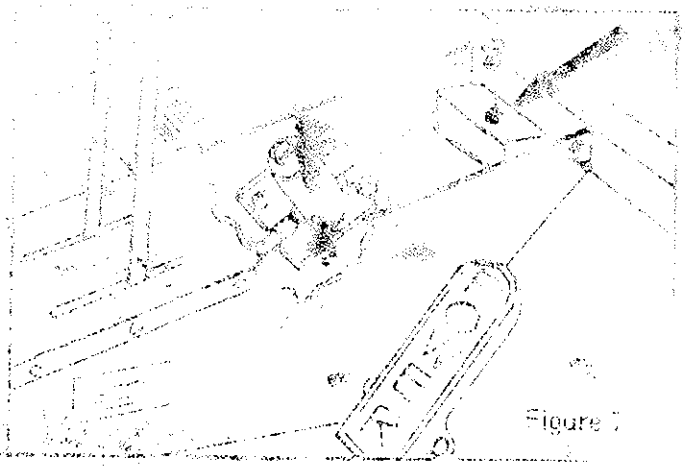


Figure 7

II. ENGINE MAINTENANCE

Refer to engine manufacturer's instruction manual.

III. HYDRAULIC SHIFT MAINTENANCE

A. Hydramite (See Figure 7)

1. Remove control panel to expose tank reservoir. Remove test plug and fill with heavy duty hydraulic oil to fill. Replace plug. Test pressure by depressing hydraulic pedal.

2. If pressure inadequate, disconnect [illegible] cylinder. Pump hydraulic oil until air is cleared from line. Reconnect hose. With pedal in depressed position.

3. If pressure still inadequate, disassemble hydramite and inspect for foreign materials or for deteriorated cups. Also check condition of solenoid and solenoid release button on right steering lever.

B. Starz Cylinder Assembly (See Figure 8)

1. If assembly fails to release motor pulley to neutral position, turn hydraulic pivot rod counter clockwise to move control arm outward.

2. If starz cylinder fails to activate after hydramite and lines have been checked, replace with new cylinder.

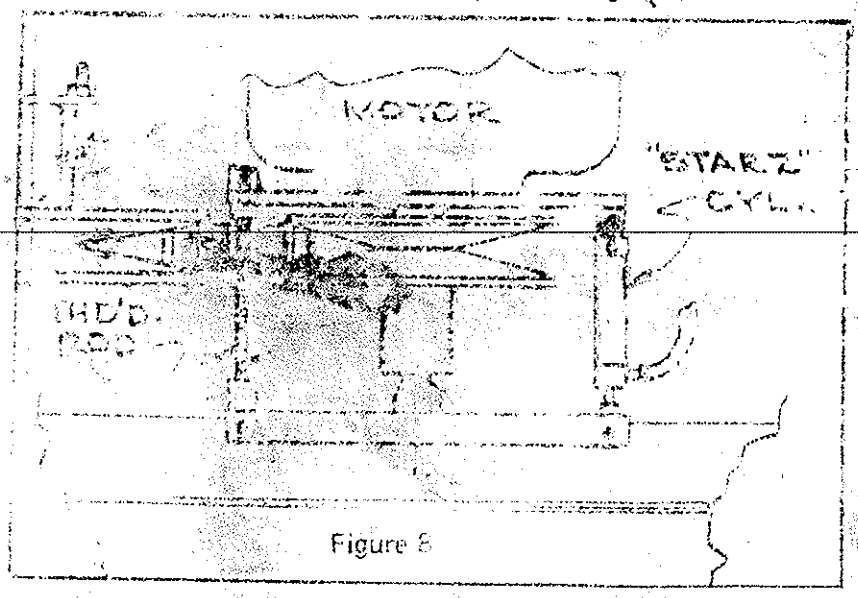


Figure 8

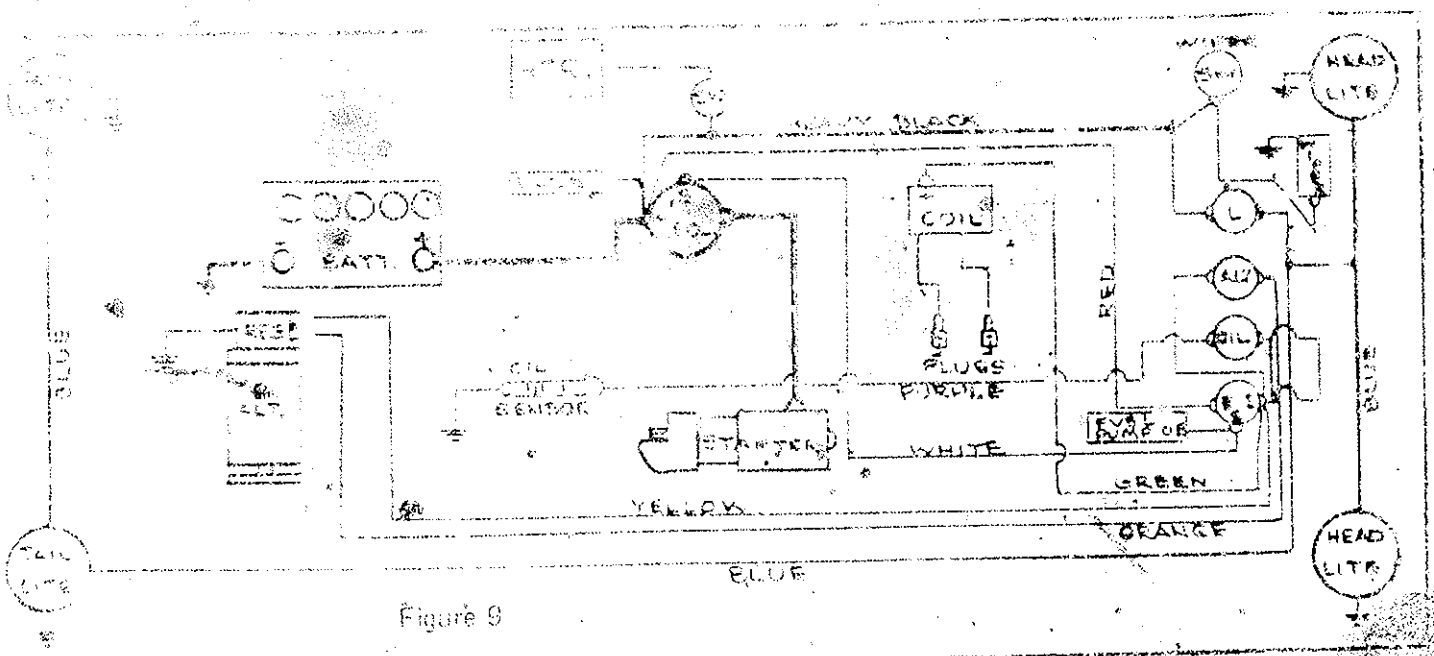


Figure 9

FUSE (See Figure 9)

A single 30 Amp. (short, fuse is located on the starter solenoid mounting just above the starter solenoid.

LUBRICATION

1. Wheel bearings. A zerk fitting is located at the bottom of each axle tube. Fill accord-

short jack shaft, and on the variable drive pulley. Grease every 25 hours with good general purpose lubricant. Lubriplate 630-AA is recommended.

3. Check transmission planetaries every 25 hours operation. Remove plug and turn to downward position. Oil should then be level with filler hole. Use EP-80-90 Mobil Oil. (See Figure 10A)

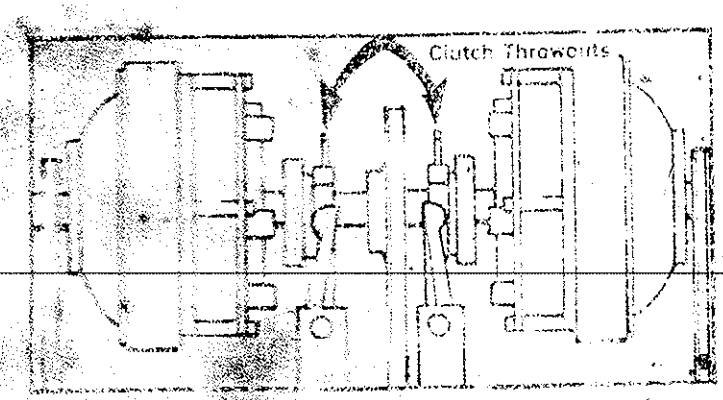


Figure 10

ing to use seven good general purpose lub ricant. Lubriplate 630-AA is recommended.

2. Zerk fittings are located at each end of the long jack shaft, on the pillow blocks of the

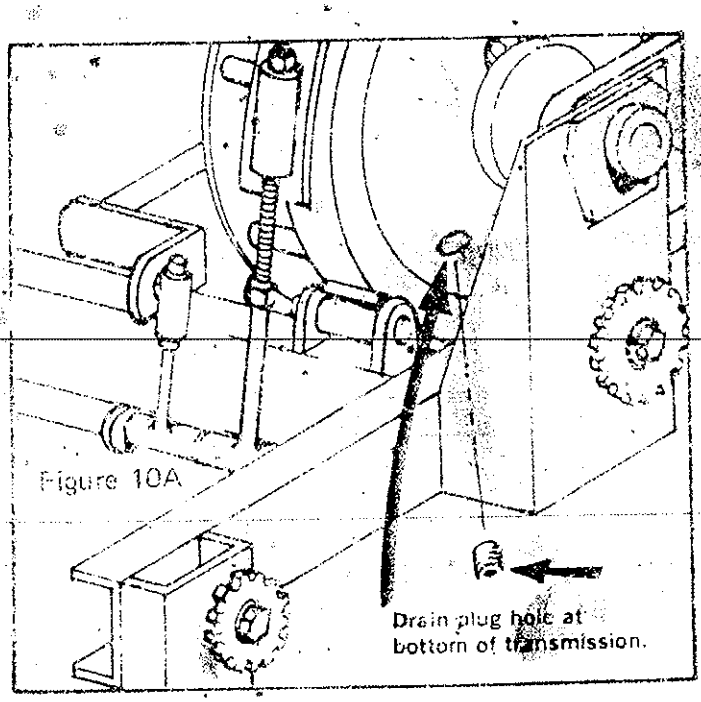


Figure 10A

V. LUBRICATION (Continued)

4. Engine oil. See pages 3 and 5 of engine manufacturer's manual.

5. Chain lubrication. Paint chains as needed with lubriplate oil or spray with roller chain dry spray. Wheel chains may need more attention than others if water enters channels.

6. Power transfer component. Remove cover. Keep 1½ quarts SAE 30 machine oil in box or to level of tops of anchoring nuts. Replace cover securely.

VI. BRAKE AND STEERING CLUTCH ADJUSTMENTS (See Figures 11 & 12)

Both the brake and the clutch are controlled by the two steering levers. As the linkage for brake and clutch are connected together, it means a critical adjustment to get proper control for vehicle operation. DO NOT MAKE ANY ADJUSTMENTS WITH ENGINE RUNNING.

1. Lift up motor cage cover. If additional working space is needed, remove clutch cover plate behind seat.

2. Slowly pull the right steering lever back while at the same time noting that the brake band will tighten down and the clutch face will move out. Repeat procedure with left steering lever.

3. Hold both steering levers in neutral position, move brake band sidewise with fingers. If clutch face is open about .005 inch (thickness of a sheet of writing paper) and brake band does not move, adjustment of the band is needed.

   a. Loosen jam nuts on band arm to release tension so band can be moved sidewise with fingers with lever in neutral position.

   b. Retighten jam nuts to lock arm in position.

4. If brake band is moveable with fingers but clutch face is not open .005 with lever in neutral, clutch needs adjusting.

   a. Slide ball locking collar down to release ball joint. Remove pin on fork type linkage.

   b. Turn spring loaded ball or fork end 3 complete turns and reconnect linkage.

   c. Pull lever back. Clutch face should move out .005 inch. Use feeler guage or sheet of writing paper. Repeat adjustment procedure if clutch opening tolerance is not correct.

5. When proper adjustments have been made to both left and right steering clutches, start engine for an operation check.

6. With engine running, pull both steering levers back to neutral position. If vehicle wants to go left or right, recheck adjustments. If the vehicle wants to go forward, the steering rods between levers and clutch assembly require adjustment or the drive belt may be loose.

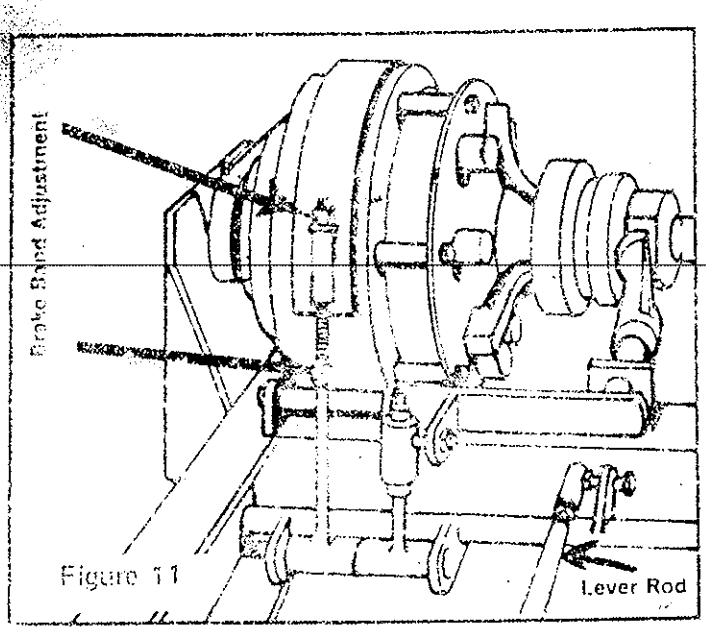


Figure 11

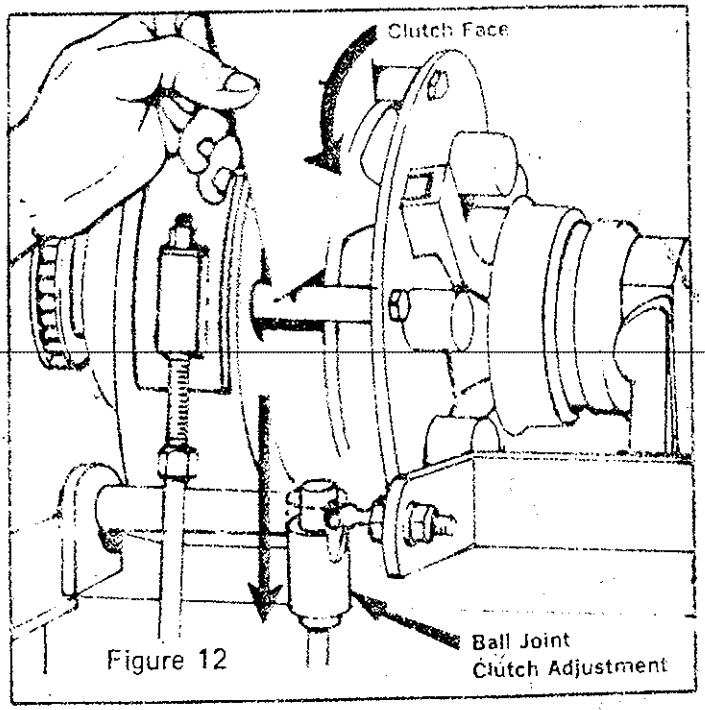


Figure 12

VII. STEERING ADJUSTMENTS

A. Steering Rod Adjustment

1. Pull steering levers to neutral position, start engine. If vehicle wants to move forward the rods between levers and clutch assembly require adjustment.
2. STOP ENGINE. Open engine cage cover and remove clutch cover plate under seat.
3. Slide locking collar back on rod end to release ball joint.
4. Turn collar two complete turns to shorten rod. Reconnect linkage.
5. Pull lever back and check brake band and clutch face adjustment.
6. Start engine and with both levers in neutral vehicle should not move.
7. Readjust linkage if necessary until vehicle maintains a stationary position with steering levers in neutral position.

VIII. VARIABLE DRIVE ADJUSTMENTS

A. Torque Drive, 6-Wheel

1. Belt adjustment. A loose belt adjustment is indicated by belt slippage, preventing the vehicle from moving up an incline in extreme low range. To check belt tension, place a straightedge across both pulleys. (See Figure 13) Pull belt down midway between pulleys. Distance from belt to wood should be one inch. To make adjustment on belt:

   a. Remove engine cage frame.

   b. Loosen four engine plate holding bolts. (See Figure 14)

   c. Move engine to rear to take up belt slack. Slack midway between pulleys should be one inch from straightedge placed across top of both pulleys.

   d. Before tightening engine bolts, check pulley alignment. Place straightedge against flat side of variable pulley sheaf. Straightedge should then be ½ inch from inside edge of motor pulley sheaf nearest motor.

2. Pully Adjustment.

   a. Back off variable pulley adjusting hub by pushing toward pulley and turning counter clockwise to relaxed position.

   b. Turn clockwise seven notches and allow hub to spring outward to engaged position.

B. Variable Drive, 8-Wheel

1. Belt adjustment. To tighten belt see belt adjustment this page for 6-Wheel.
2. Pulley alignment. Place straightedge against flat surface of motor pulley sheaf nearest motor. Other end of straightedge should be parallel to flat surface of variable pulley sheaf.
3. Pulley adjustment. Maintain 3/8 inch distance between ends of the three adjusting bolts and flat surface of retaining nuts.

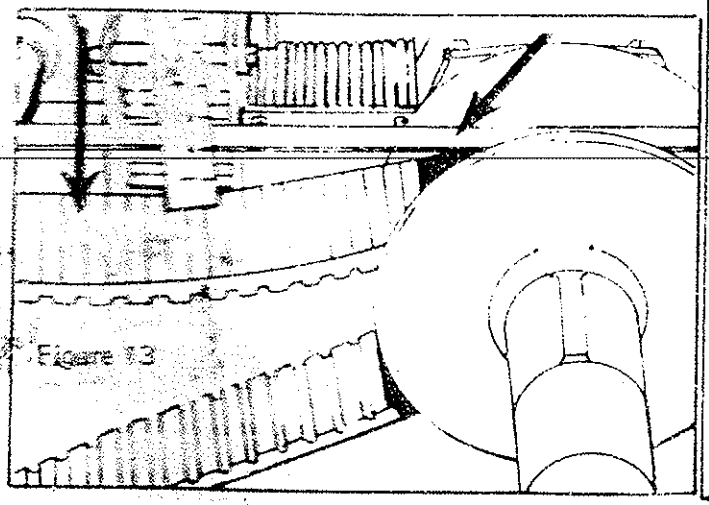


Figure 13

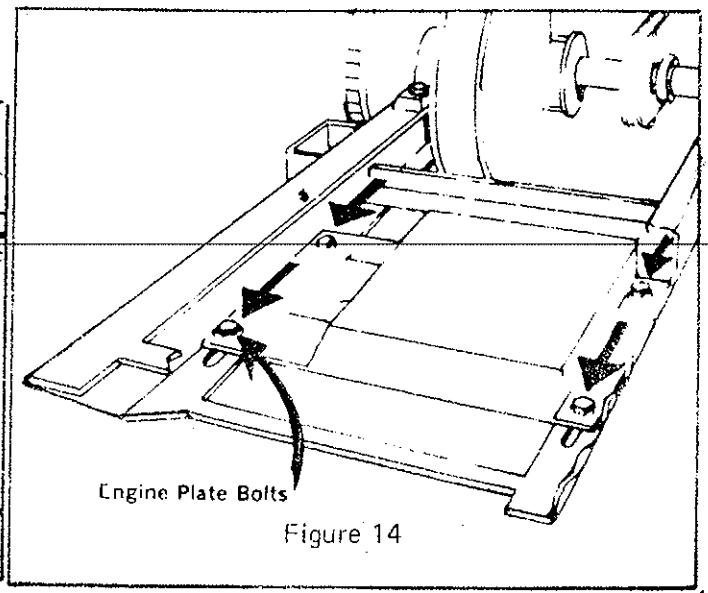


Figure 14

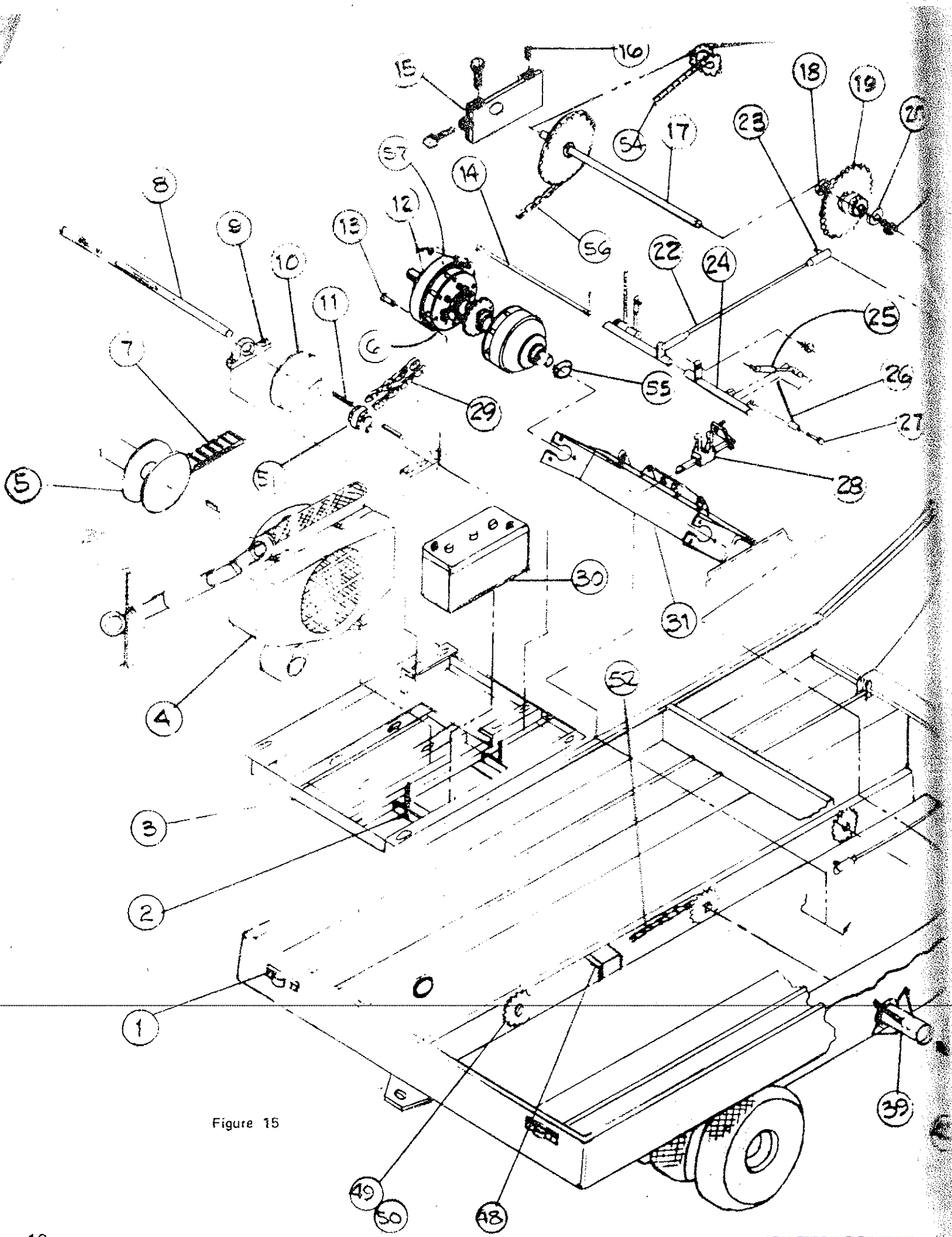
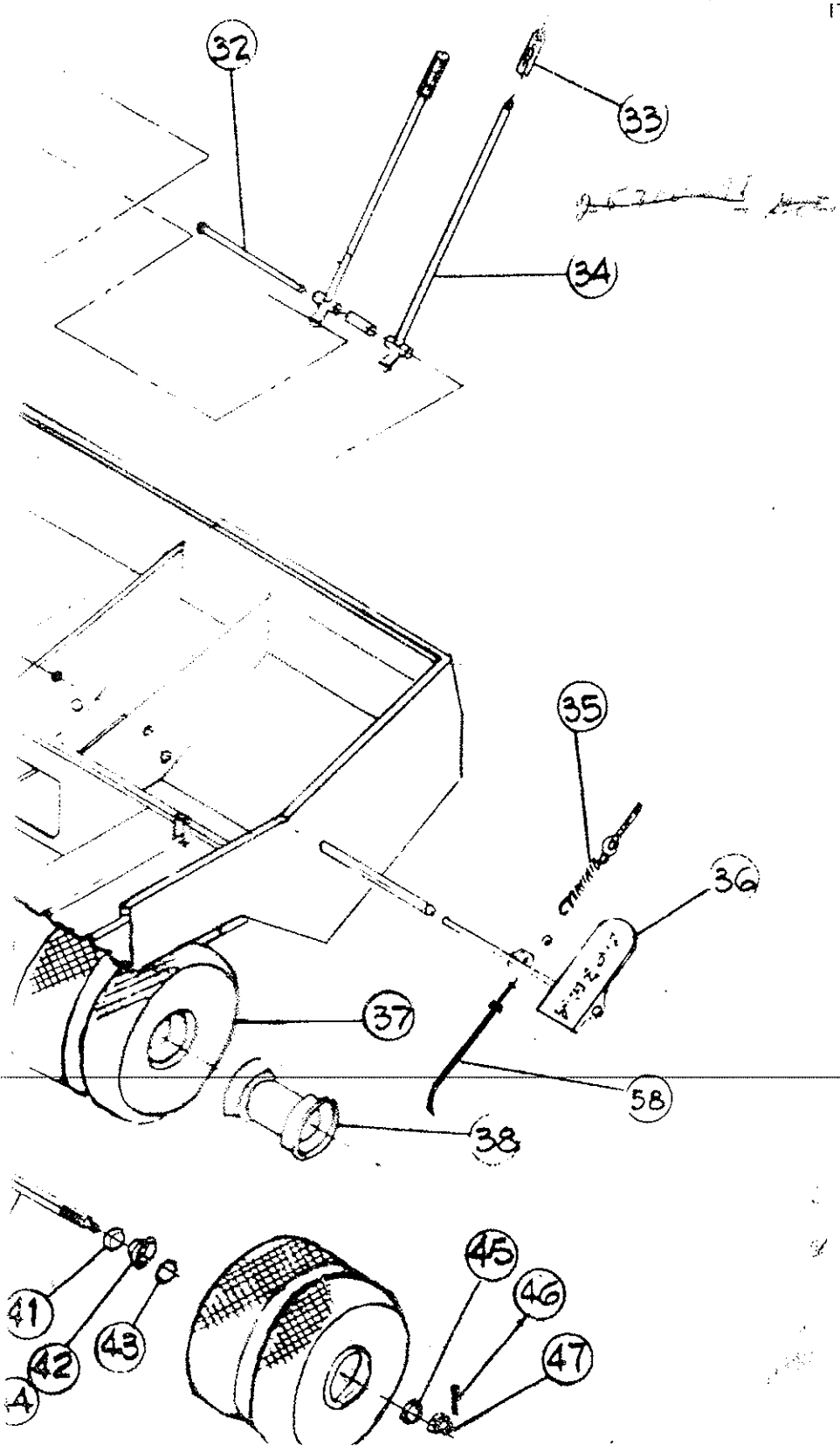


Figure 15

6-WHEEL PARTS CALLOUT



ITEM	DESCRIPTION OF PART	PART NO.	REQ'D.
1	Tail Light	2092	2
2	Battery Hold-down	2093A	2
3	Motor Mount Frame	2094	1
4	Onan Engine (16 & 20 H.P.)	2095	1
5	Motor Pulley	2090	1
6	Throwout Bearing	2096	2
7	Drive Belt	2097	1
8	Jack Shaft	2034	1
9	Pillow Block	2088	2
10	Variable Pulley	2089	1
11	Key-Pulley	2098	2
12	Planetary Ass'y	2091	1
13	Pin Planetary	2101	1
14	Activ. Sleeve Rod	2046	2
15	Take-up Ass'y	2103	2
16	Adjusting Bolt ½-13	2104	6
17	Secondary Jack Shaft	2041	1
18	Bearing (Timken)	2105	2
19	15-15-54 Sprocket	2061	2
20	Washer (Oilite)	2106	2
21	Bolt - 5/8-18	2107	2
22	Activator Rod	2043	2
23	Ball Joint	2108	4
24	Control Arm Ass'y	2046	2
25	Throw-out Arm, Clutch	2044	2
26	Brake Arm	2045	2
27	Pin-Brake Arm	2045A	2
28	Clutch Fork Arm R & L	2102	1 ea.
29	#40 Double Chain	2084A	1
30	Battery	2093	1
31	Planetary Frame	2020	1
32	Rod-Steer Levers	2109	1
33	Handle Grip	2111	2
34	Steer Lever	2110	2
35	Spring-Accelerator	2113	1
36	Accelerator Pedal Ass'y	2112	1
37	Dual Tire (18")	2114	6
38	Wheel Rim	2115	6
39	Axle Housing	2004	6
40	Axle (1" Dia.)	2005	6
41	Bearing	2006	12
42	Collars-Outs.	2001	12
43	Seal - Rubber Quad	2008	12
44	Collar-Inside	2002	6
45	Washer	2007	6
46	Cotter Pin	2012	6
47	Castle Nut	2013	6
48	Idler Sprkt.	2019	6
49	Wheel Spr. Sing.	2059	4
50	Wheel Spr. Dble.	2060	2
51	Drive Sprkt. (Dble.)	4000	1
52	Wheel Chain	2085	2
53	Frt. Door Chain	2085A	2
54	Rear Door Chain	2085B	2
55	Bearing - 1" I.D.	2080	2
56	Transmission Chain	2030	2
57	Brake Band	2099	2
58	Throttle Cable	2100	1

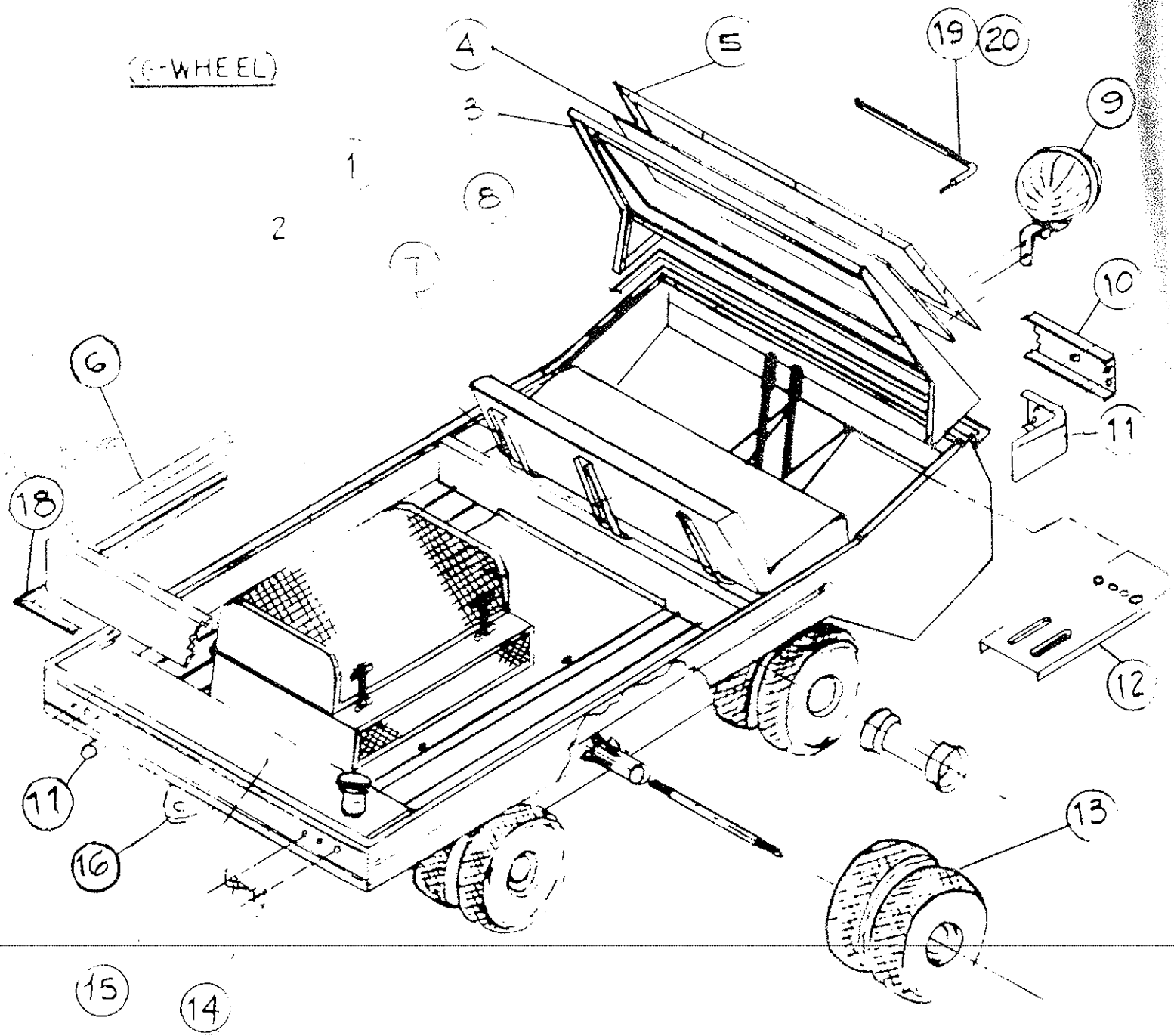


Figure 16

CHASSIS ASSEMBLY PARTS LIST

6-WHEEL

ITEM	DESCRIPTION	PART NO.	REQ'D.	ITEM	DESCRIPTION	PART NO.	REQ'D.
1	Body Frame	2016	1	11	Bumper End	5061	2
2	Motor Cage	2056	1	12	Instrument Panel	2048	1
3	Windshield Frame	2037	1	13	Wheel – 18"	2015	6
4	Glass	5059	1	14	Tail Lamp	2909	2
5	Glass Frame	5059	1	15	Gas Tank	2051A	1
6	Side Board (Opt.)	2017	1	16	Hitch-Rear	2086	1
7	Seat Mtg. Bar	2067	3	17	Tail Pipe	2087	1
8	Seat - Bench	2066	1	18	Welting	5059A	1
9	Head Lamp	2906	2	19	Wiper Ass'y	5060	1
10	Bumper	2018	1	20	Wiper Motor	5060	1

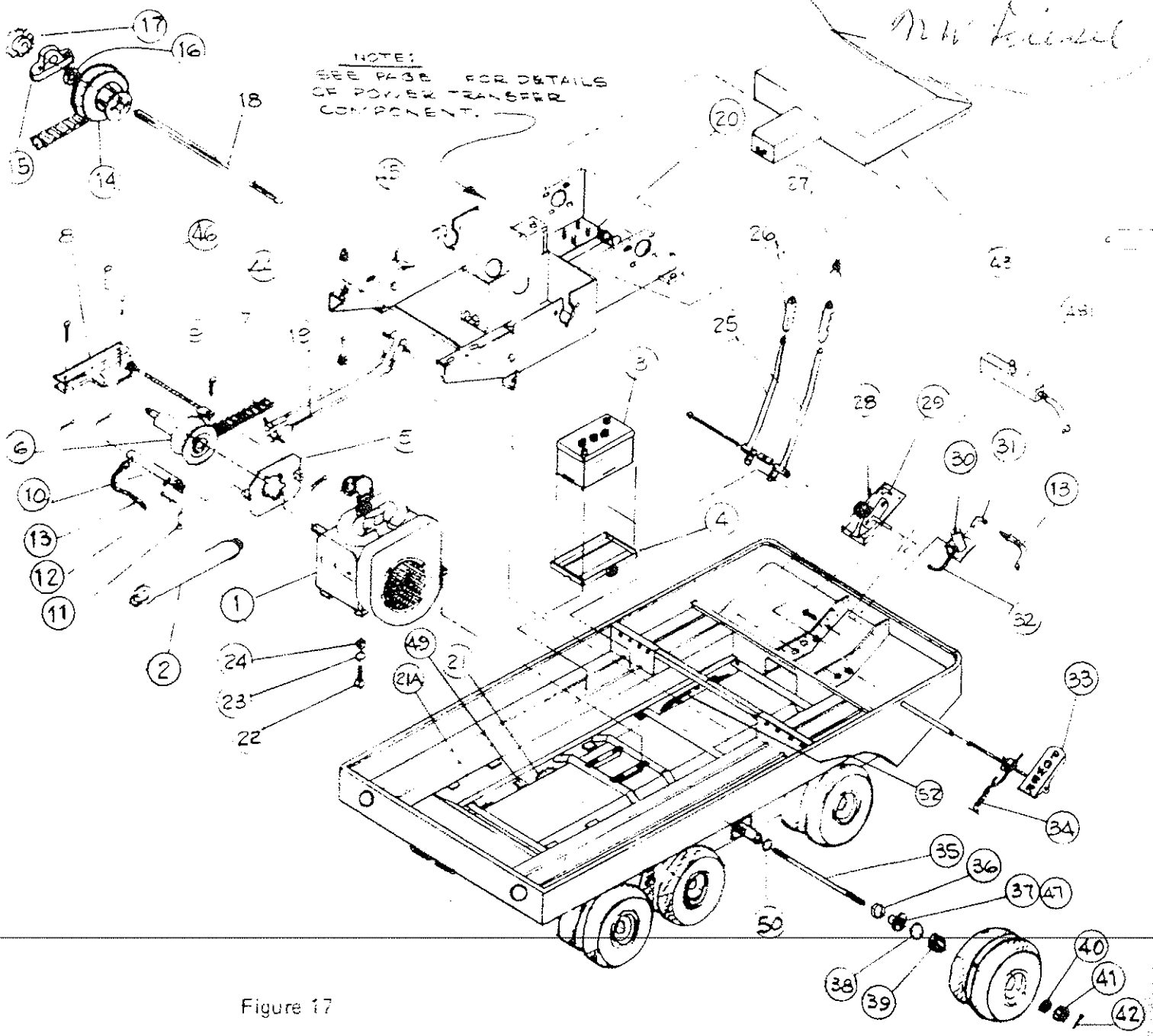


Figure 17

Plugs - Gap .030
Points - Gap .020

8-WHEEL PARTS CALLOUT

ITEM	DESCRIPTION	PART NO.	REQ'D.
1	Engine - 30 or 37 h.p.	5139/5140	1
2	Muffler	5172	1
3	Battery - 12V.	5247	1
4	Battery Holder	5146	1
5	Hydr. Mtg. Plate	5259A	1
6	Motor Pulley	5142	1
7	Drive Belt	5137	1
8	Hydr. Cont. Arm	5261A	1
9	Hydr. Pivot Rod	5262D	1
10	"STARZ" Cyl.	5223	1
11	¼ Pin	5267	4
12	Cotter Key	5268	5
13	Hydraulic Hose	5221	1
14	Variable Pulley	5136	1
15	Pillow Block	5133	2
16	Collar - 1¼ Dia.	5286	6
17	#50 - 17 T. Sprkt	5066	2
18	Jack Shaft	5052	1
19	Activator Arms	5148	2
20	Power Transf. Comp't.	5072-A	1
21	Wheel Sprkt. Dble.	5070	4
21A	Wheel Sprkt. Sing.	5069	4
22	½" Bolt	5288	4
23	Lockwasher	5292	4
24	½ Hex Nut	5290	4
25	Steering Lever	5284	2
26	Grips - Rubber Lever	5231	2
27	Button, Hydr.	5198	1
28	Hydramite Cyl.	5208	1
29	1/8" St. Ell	5210	1
30	Solenoid	5213	1
31	I.P.S. Elbow	5294	2
32	Hose - Tank to Hydrom.	5214	1
33	Power Pedal	5237	1
34	Spring, 7/8" Dia.	5243	1
35	Axle	5001	8
36	Bearing	5006	16
37	Outside Collar	5002	8
38	Washer, Felt	5008	8
39	Dust Cap	5010A	8
40	1" Washer, Plain	5010B	8
41	1" Nut, Castle	5007	8
42	Cotter Key	5010D	8
43	Power Transfer Cover	5081A	1
44	½-20 Hex Hd. Bolt	5134	4
45	½-20 Locknut	5135	4
46	Pin - Center Pivot	5269	1
47	Seal, Rubber Quad	5010	16
48	Valve, By Pass	5218	1
49	15T. #60 Idler Sprkt.	5296	4
50	Seal - Rubber	5010	16
51	Tank - Hydro. Reserv.	5215	1
52	Wheel Chain	5099	4

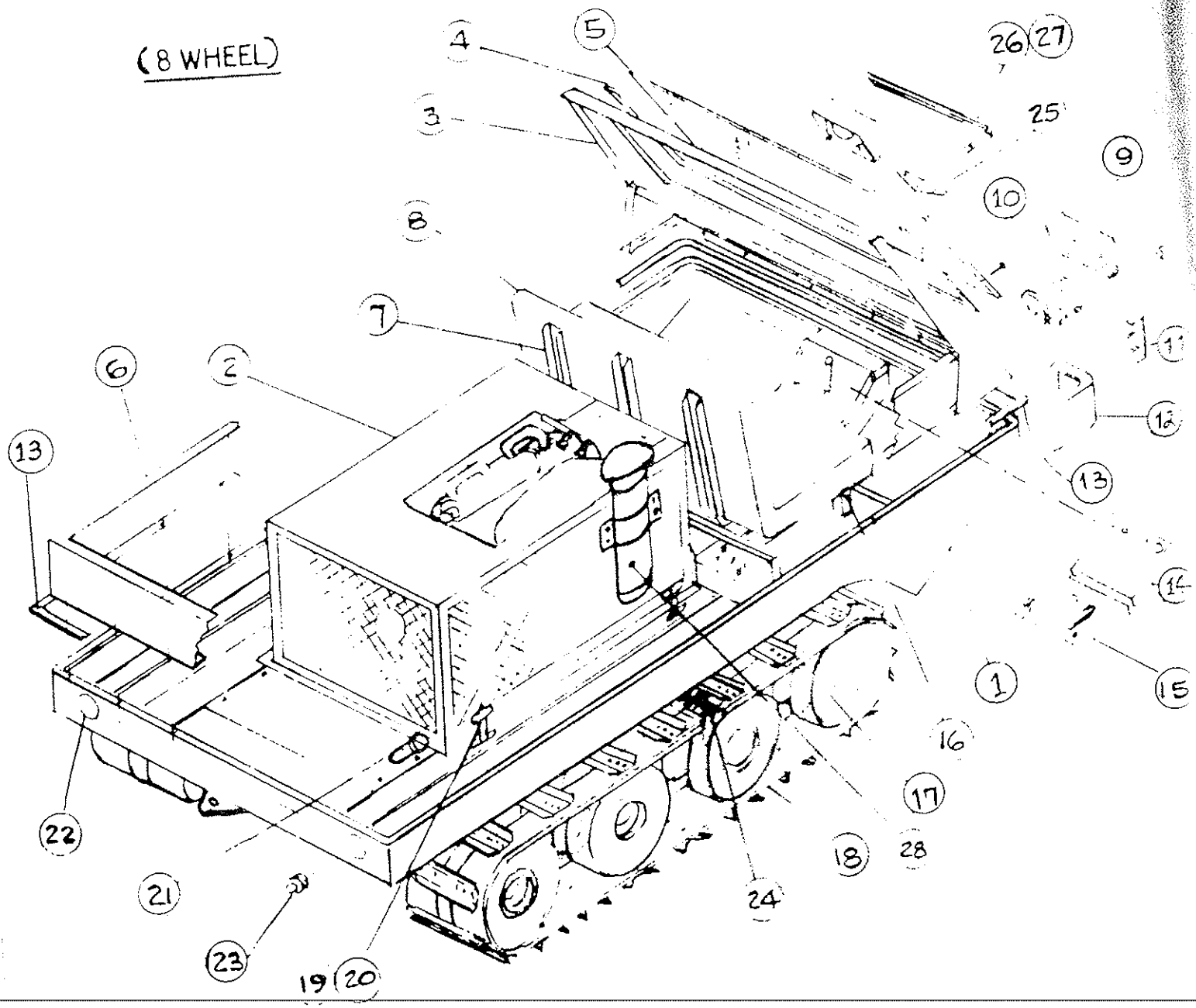


Figure 18

ITEM	DESCRIPTION	PART NO.	REQ.
1	Body Frame	5011	1
2	Motor Cover Cage	5057	1
3	Windshield Frame	5058	1
4	Window Frame Cover	5058B	1
5	Glass	5059	1
6	Side Board (Opt.)	5295	1
7	Seat Mounting Bar	5253	3
8	Seat - Bench/Bucket	5250	1
9	Headlamp Casting	5181	2
10	Headlamp Frame	5181A	2
11	Bumper	5053	1
12	Bumper End	5061	2
13	Gasket	5059A	1
14	Instrument Panel	5234	1
15	Steering Lever Cover	5235	1
16	Pin	5129A	2
17	Wheel - 18" or 20"	5177/5277	8
18	Track (Optional)	5038/5282	2
19	Hood Latch &	5171B	4
20	Clip		4
21	Gas Tank	5153	1
22	Tail Lamp Ass'y	5178	2
23	Drain Plug	5050	2
24	Connector Cable	5048	2
25	Name Plate Decal	5236A	1
26	Wiper Assembly (Opt.)	5060	1
27	Wiper Motor	5060A	1
28	Air Cleaner	5057A	1

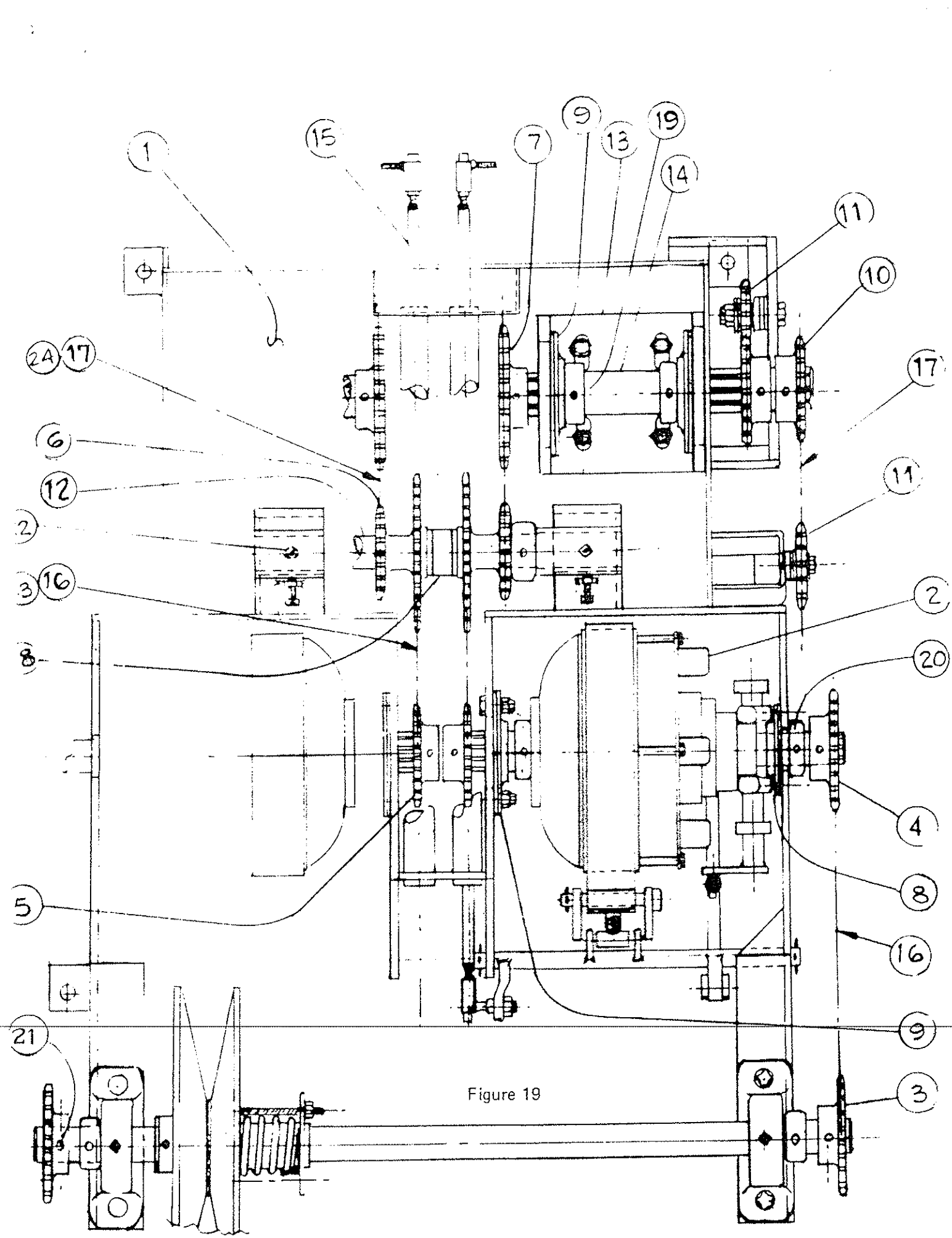


Figure 19

POWER TRANSFER COMPONENT PARTS CALLOUT

ITEM	DESCRIPTION	PART NO.	REQ'D.
1	Gear Box Ass'y	5072-A	1
2	Planetary	5062	2
3	17 Tooth - # 50 Sprkt.	5066	2
4	20 Tooth - # 50 Sprkt.	5065	2
5	15 Tooth - # 50 Sprkt.	5067	2
6	14-40T. Cluster Sprkt.	5063	2
7	36 Tooth - # 60 Sprkt.	5064	2
8	1¼ Flanged Bearing	5100	2
9	1 5/8 Flanged Bearing	5101	6
10	14 Tooth - # 60 Sprkt.	5068	4
11	15 Tooth # 60 Idler Sprkt.	5296	4
12	Jack Shaft - Secondary	5081	2
13	Output Shaft Saddle	5082-A	2
14	Output Shaft	5071	2
15	Control Rod Ass'y	5148-A	2
16	# 50 L Chain-Roller	5098	As Req'd
17	# 60 Chain - Roller	5099	As Req'd
18	1¼ I.D. Oilite Washer	5297	2
19	Collar 1 5/8 I.D.	5287	4
20	Collar 1¼ I.D.	5286	4
21	5/16 - 18 Set Sc. Dog Pt.	5298	25
22	Zerke Fitting	5174	7
23	# 50 Std. (37 h.p.)	5299	As Req'd
24	# 60 H.D. (37 h.p.)	5300	As Req'd
25	Brake Band	5131-A	2
26	Bearing - (Timken)	2917	2
27	Brg. Race	2917-A	2

PLANETARY PARTS CALLOUT

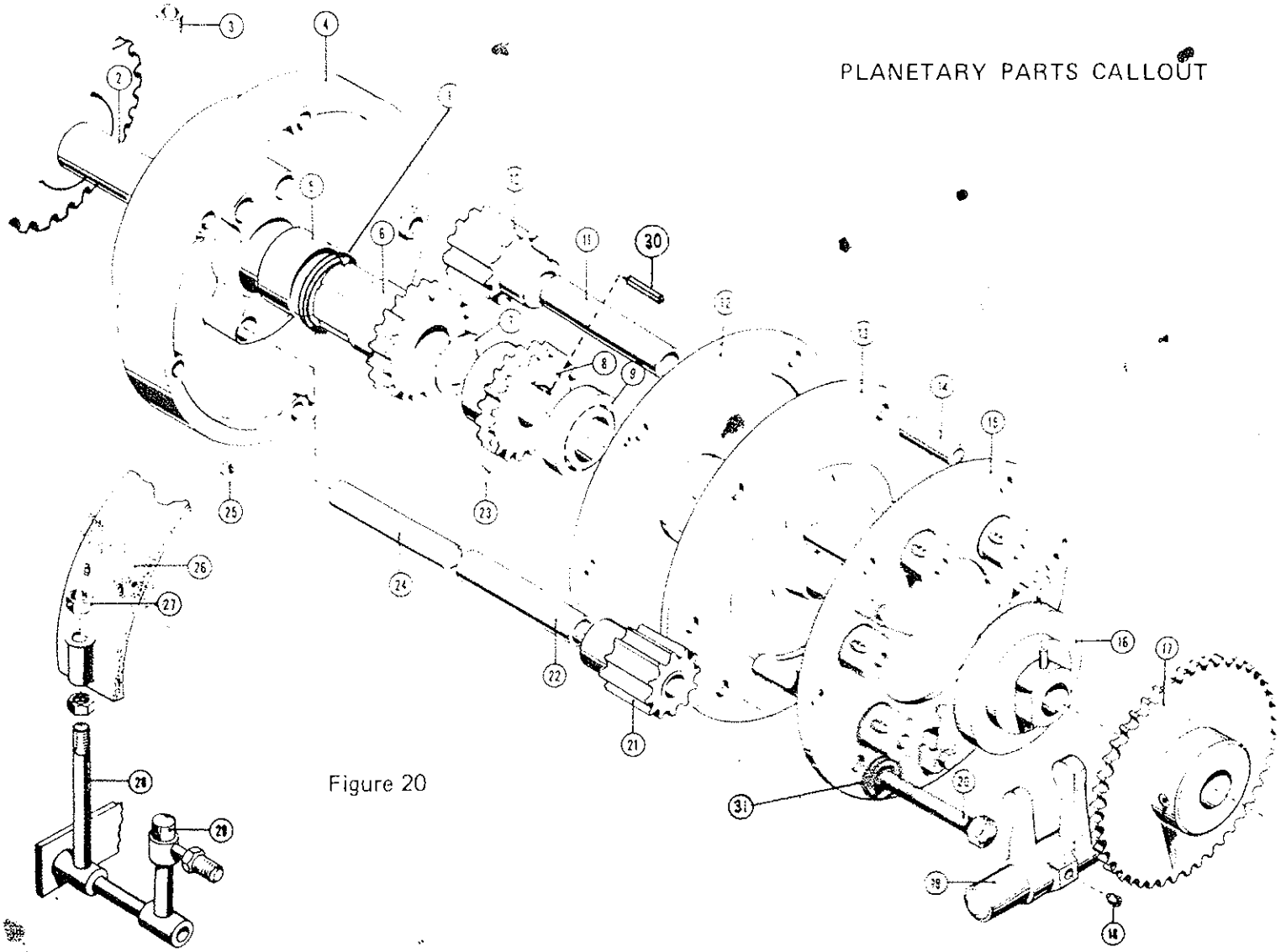


Figure 20

STEERING TRANSMISSION ASSEMBLY

ITEM	DESCRIPTION	REQ.	ITEM	DESCRIPTION	REQ.	ITEM	DESCRIPTION	REQ.
1	Seal	2	11	Oilite Bearing	8	22	Oilite Bearing	8
2	Shaft	1	12	Gear Cover	2	23	Set Screw	2
3	Pipe Plug	2	13	Clutch Disc	2	24	Idler Gear Pin	8
4	Gear Housing	2	14	Spacer	12	25	Set Screw	2
5	Oilite Bearing	2	15	Pressure Plate	2	26	Brake Band	2
6	Output Gear	2	16	Throw-Out Bearing	2	27	Nut	4
7	Oilite Washer	2	17	Gear	1	28	Arm	2
8	Drive Gear	2	18	Pin	2	29	Knuckle Joint	2
9	Bearing	2	19	Fork	2	30	Key	1
10	Idler Gear	4	20	Cap Screw	12	31	Lockwasher	6
			21	Idler Gear	4			

MOTOR VARIABLE ASSEMBLY

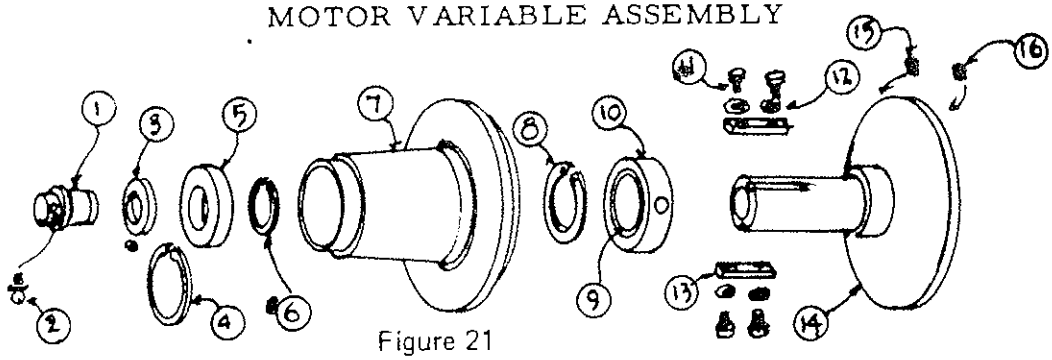


Figure 21

CAT-A-GATOR ASS'Y NOS. 30 H.P. – 5142 AND 37 H.P. – 5144

ITEM	MFG. PART NUMBER	PART DESCRIPTION	QUANTITY UNIT
1	03-1377	Stub Thrust Shaft	1
2	03-1451	Grease Fitting ¼ - 28	1
3	03-3020	Spacer	1
4	03-2904	Snap Ring 5108 - 293	1
5	03-2906	Ball Bearing 307NPP	1
6	03-1381	Snap Ring 5108 - 137	1
7	03-2902	Female Sheave	1
8	03-2905	Snap Ring	1
9	03-2962	Oilite Bearing	1
10	03-2961	Idler Collar	1
11	03-2687	Cap Screw	4
12	03-1651	Lock Washer	4
13	03-2612	Key	2
14	A	Male Sheave	1
15	03-1652	Set Screw	1
16	03-1650	Set Screw	1

12" VARIABLE ASSEMBLY

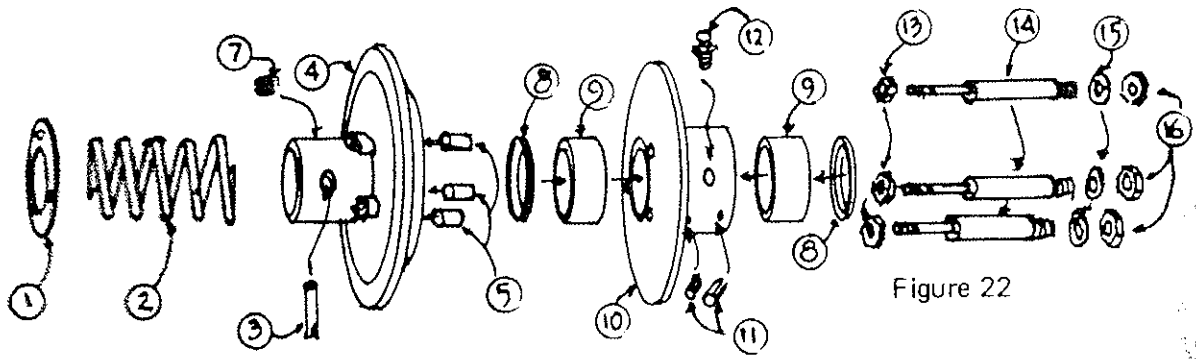


Figure 22

CAT-A-GATOR ASS'Y NO. 5136

ITEM	MFG. PART NUMBER	PART DESCRIPTION	QUANTITY UNIT
1	06-1067	Tension Plate	1
2	06-1065	Spring	1
3	06-2875	Driv-Lok Pin	1
4	A	12" Sheave Fixed	1
5	06-1553	Oilite AA-724-3	3
6	06-1229	Nut ½ - 13 Hex	3
7	03-1650	Set Screw 3/8 -16 X 3/8 Nylok	1
8	06-2859	Wiper B-132-116-2	2
9	06-2865	Oilite AA-1512-16	2
10	B	12" Sliding Sheave	1
11	03-1571	Roll Pin 1/8 X 3/8	2
12	C	Grease Fitting ¼ - 28 X 1 1/8	1
13	06-1168	Nut 3/8 - 16 Hex Nylok	3
14	06-2838	Drive Pin	3
15	06-1141	Lock Washer ⅛ Internal Shakeproof	3

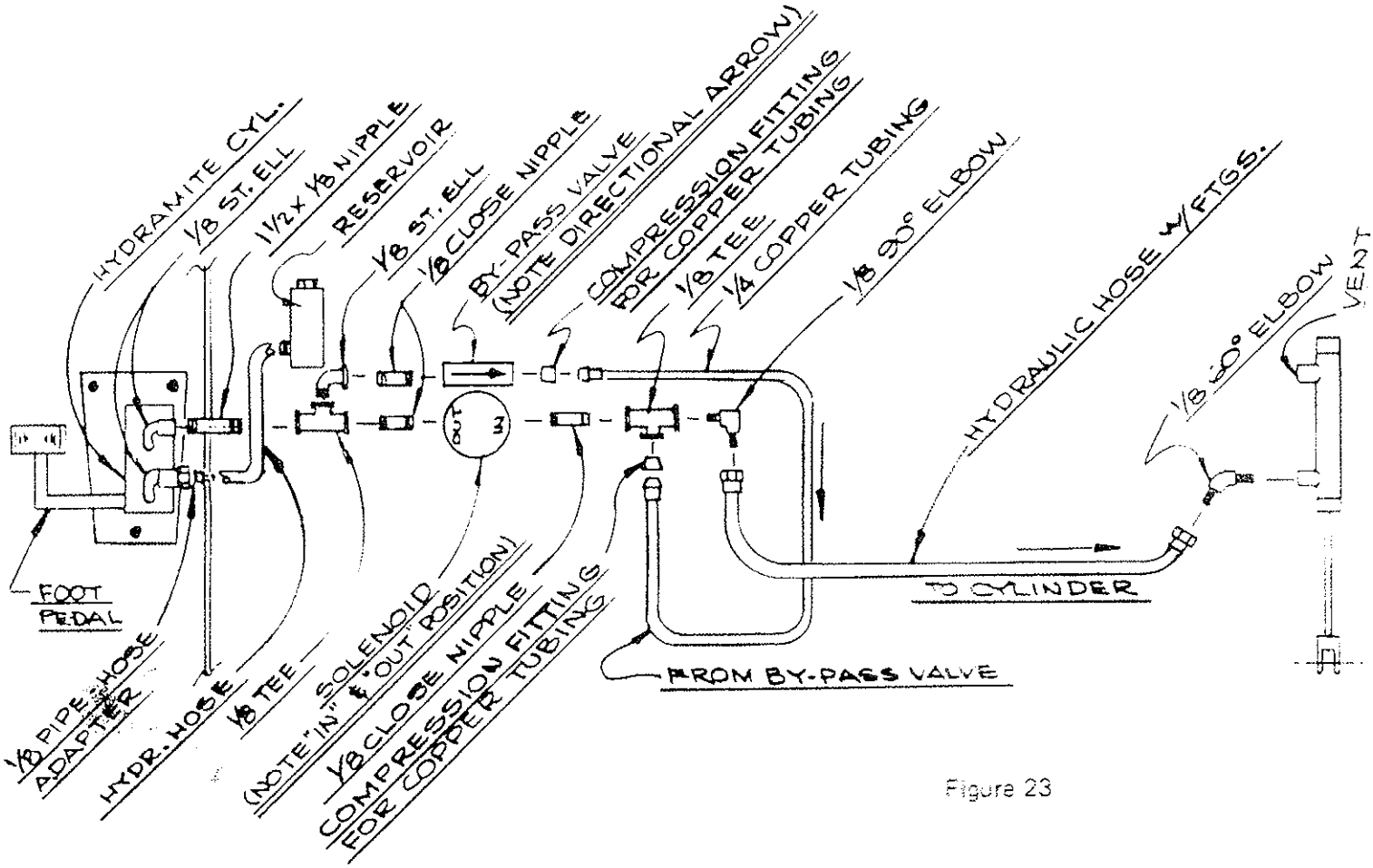


Figure 23

HYDRAULIC SYSTEM ASSEMBLY

TRACK INSTALLATION

1. Lay out tracks in front of vehicle so that center guides line up between dual wheels. Run vehicle onto tracks just far enough so that front end of tracks, when brought up over wheels, extend about two inches to rear of front wheels.

2. Bring both ends of track up over wheels. It may be necessary with new track to use pry loose center guides until ends of tracks are positioned as closely together as possible.

3. Attach hook on ratcher puller ("Come-along") to second cleat from one end of track. Attach pulley hook of puller to second cleat from other end of track. Finally, attach terminal hook of puller to same cleat as ratchet hook.

4. Draw ends of track together with puller until loops on hinge pin clamps dovetail.

5. Attach vice grip pliers to one end of nylon cable pin. Insert other end of pin into hinge loops of inside belting and push through all loops with twisting motion. Repeat with outside belting. It is helpful in this operation to bevel insertion end of cable with file or grinder.

6. Bend each end of cable pins to 90 angle to prevent working out. Detach ratchet puller.

If difficulty is found in drawing end of track together, deflate front and rear tires. In the case of extra wide tracks it may be necessary to jack up the vehicle after track has been brought up over wheels so that slack beneath the wheels may be taken up