

**NEW**

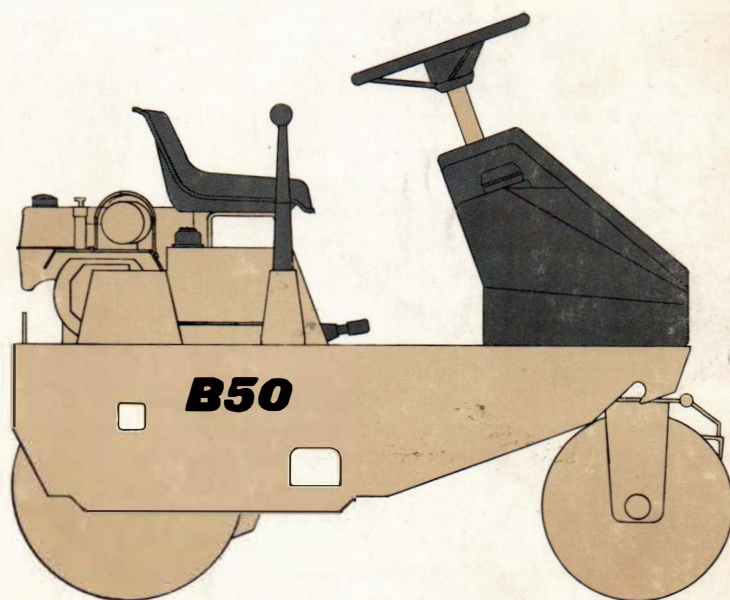
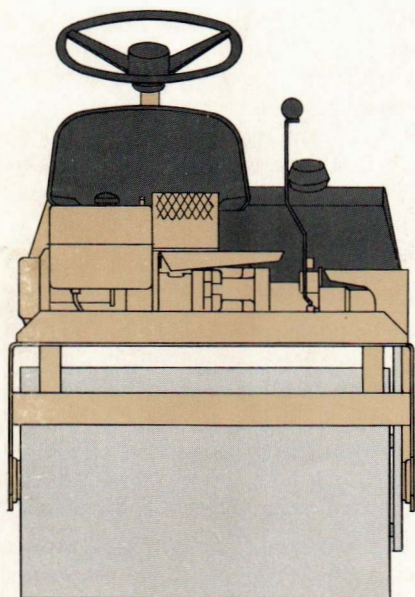
# BEUTHLING

## B50

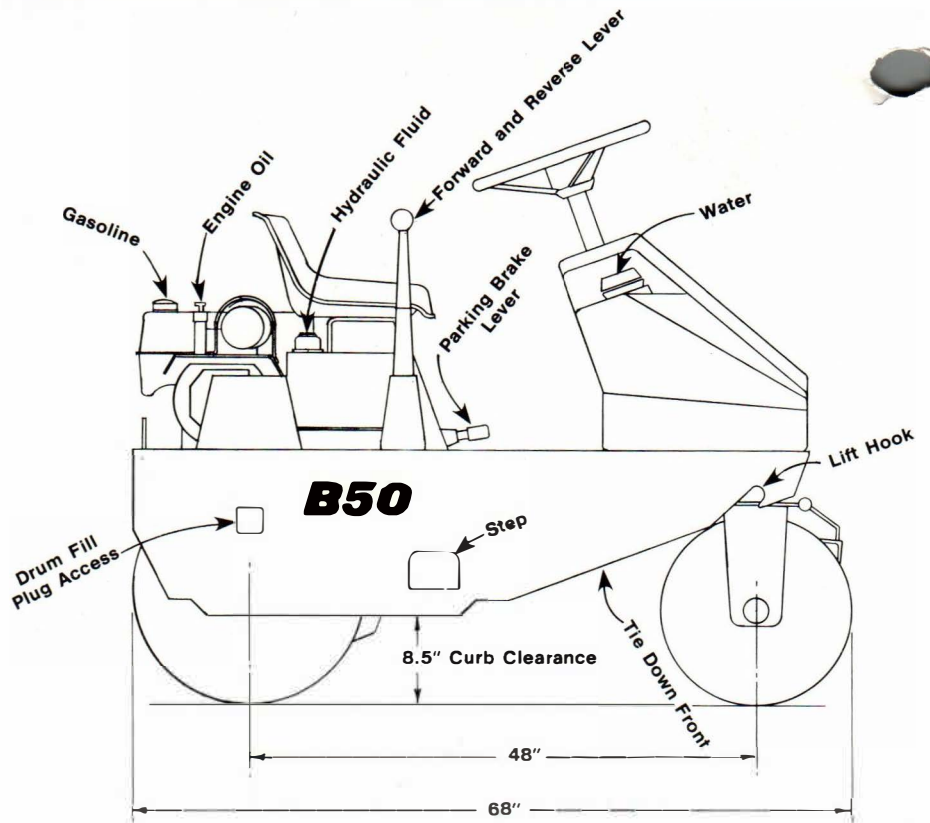
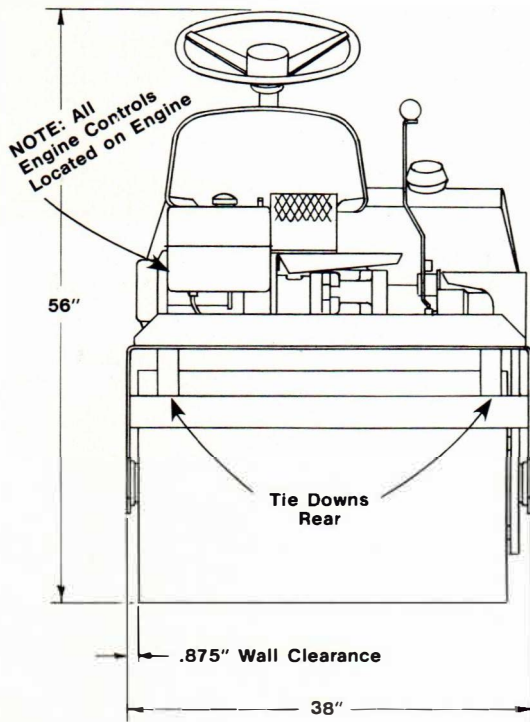
SELF PROPELLED STATIC COMPACTOR-1 TON

### OWNER'S MANUAL & PARTS LIST

S/N 50-1 & UP



WARNING! READ THIS MANUAL BEFORE OPERATING  
OR SERVICING YOUR MODEL B50.



**WARNING!** Read engine owner's manual before starting engine, for proper operation and service of engine.

The engine is set for a maximum of 3,200 RPM. **DO NOT** reset or change engine speed or operate over 3,200 RPM.

Check hydraulic fluid level in reservoir. When fluid is seen at the bottom of the screen, fluid is at proper level. It is recommended that a lock be used to guard against possible contamination or vandalism. Provisions are made on the fill neck cap for such a lock.

**OPERATION**

Before starting engine make certain control lever is in neutral position and the parking brake is engaged. The brake handle is located at the operator's left and is engaged or "on" when handle is in the up position and "off" when handle is in the down position. **CAUTION:** Never adjust parking brake hand lever too tightly, only enough to hold unit on an incline. Start engine and maintain slow RPM for approximately one minute to allow hydraulic system to warm-up before moving, release the parking brake. Travel speed and direction of travel are

controlled by a single lever (**AVOID** any fast movement of this lever or hitting the end of a full stroke with excessive force causing damage to pump control shaft seals).

The unit is put into motion by moving the control lever in the direction of travel desired. **CAUTION:** The control lever should always be moved slowly from one direction through neutral to the opposite direction. This procedure utilizes the hydraulic system's dynamic capability to bring the machine's weight to a complete stop, at neutral, before going in the opposite direction. Use of this procedure will prevent damage to the system.

If it is noticed that the engine is lugging down when the control lever is fully advanced during a heavy pull, move the control lever back to increase power and eliminate lugging.

The rear drive chain should be disconnected before pushing or pulling the unit if it is to be moved without the engine running. If the chain is not removed, damage to the hydraulic system may result. However, if unit is equipped with optional TRANSMISSION BY-PASS VALVE, drive chain does not need disconnecting. Unit is able to be moved off asphalt or to trailer by flipping valve to the "open" position. (See decal on unit).

The sprinkler valve handle is located to the right of operator's seat. This valve handle controls both front and rear water supply, gravity feed by rear water tank.

**BALLAST**

Greater compaction may be achieved through the use of water ballast in front and rear drums. If water ballast is used in temperatures below freezing, use 30% alcohol in water. If fuel oil is used, allow 10% for expansion. A pipe plug is located in each roller for filling purposes, be sure to fill both front drums. Access to plug in rear roller is through a large clearance hole in right side plate. Rotate rear roller to remove plug.

**NOTE:** In some conditions a fully ballasted front drum will cause the B50 to be nose heavy and "bulldoze". In this case reduce water capacity in front drums.

**HYDRAULIC SYSTEM**

**CAUTION:** After a new unit has run FIVE hours the oil filter should be changed. This is to rid the system of any trapped contamination from factory assembly. **CAUTION:** ANY TIME the filter has been changed, IDLE engine for three minutes

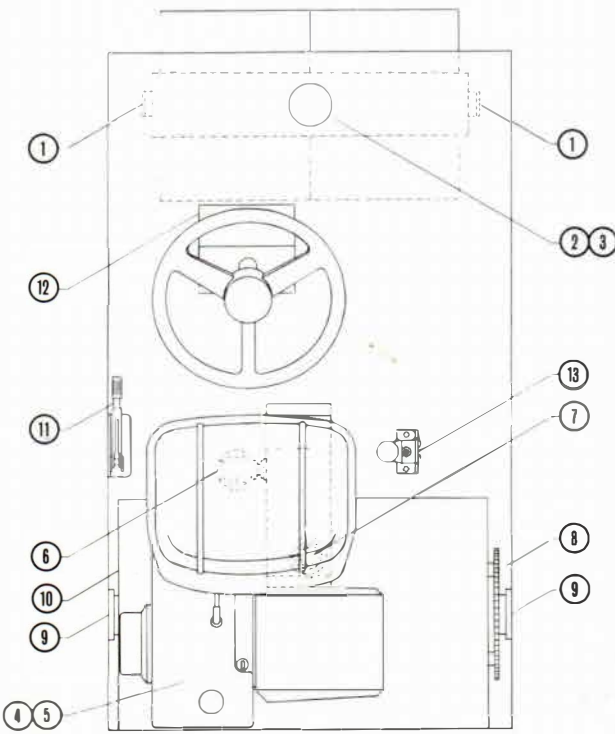
with control lever in NEUTRAL. At the end of this running period SLOWLY engage forward to reverse. This allows fluid to replace the air in the pump area introduced into the system with the filter change. IF THIS PROCEDURE IS NOT FOLLOWED partial or complete failure of the pump will result.

Check hydraulic fluid daily, change fluid and filter every 500 hours or sooner if conditions warrant, i.e., extreme dust or condensation. The B50 is equipped with a three gallon oil reservoir — when changing or adding fluid, use ATF Type F. To prevent any foreign matter from entering the tank extreme care should always be used when removing fill cap. Fluid is at proper level when seen half way up from bottom of the screen in the fill neck — never fill reservoir to overflowing.

**NOTE:** Use ATF Type F Fluid ONLY. Consult factory for equivalent hydraulic fluids.

**LUBRICATION CHART**

Model B50



See Operating Manual For Further Details

Ref. No.	Lubrication Point				Type Of Lubricant	Lub. Fitting
		Daily	Weekly	500 Hours		
1	Front Axle Bearings		•		Chassis Lubricant	Yes
2	Front Pivot Tube		•		Chassis Lubricant	Yes
3	Oscillating King Pin		•		Chassis Lubricant	Yes
4	Engine Crankcase	✓			See Engine Manual	No
5	Engine Air Cleaner	✓			See Engine Manual	No
6	Hydraulic Oil Filter			•	Replace	No
7	Hydraulic Oil Reservoir	✓		•	ATF Type F	No
8	Main Drive Chain		✓	•	Light Oil - Brushed On Or Oil Can	
9	Rear Drum Flange Bearings		✓	•	Chassis Lubricant	Yes
10	Parking Brake Arm Assembly In Rear Drum	✓	•		Chassis Lubricant	Yes
11	Parking Brake Handle	✓	•		Chassis Lubricant	No
12	Steering Gear Box			✓	Chassis Lubricant	No
13	Forward/Reverse Control Lever	✓	•		Chassis Lubricant	No

✓ Check

• Lub. Or Change

## LUBRICATION

Check steering gear box every 500 hours, use chassis lubricant if necessary. Fill to overflow and replace plug.

Check main drive chain weekly — lubricate monthly with light oil either brushed on or applied with oil can.

Zerk fittings will be found at the bottom of the flanged bearings on the rear drum — grease monthly with chassis lubricant. Fittings are also located on the ends of the front drum shaft, the front pivot tube and oscillating king pin. Lubricate weekly with chassis lubricant using grease gun. FRONT AXLE fittings require enough grease to purge inner bearings.

One zerk fitting will be found on the parking brake arm assembly located on the left side of the unit. Access to grease fitting is from under side. Use chassis lubricant weekly.

## CHAIN ADJUSTMENT

To tighten the main drive chain, loosen hydraulic drive motor plate bolts (4), use Beuthling shims (000-1543). Check for proper sprocket alignment before re-tightening adjusting screws. Removal of a chain link will compensate for any excess stretch which may develop in the chain.

## DRUM SCRAPERS

This unit is equipped with spring load steel scraper bars front and rear of each drum. Scrapers may be used with or without cocoa mats. If so equipped, front and rear cocoa mat pans are designed to pivot away from drum when not in use.

## ELECTRICAL

This unit is equipped with a magneto ignition system. See Engine Manual. Starting and stopping engine is done with

spring loaded key switch on engine. **CAUTION:** Always remove key from switch when leaving equipment unattended or when equipment is not in use.

See engine wiring diagram for adapting accessory lights and gauges.

**DO NOT** run engine with 12 volt battery disconnected to prevent electrical damage from the alternator. **DO NOT** weld on unit unless battery is disconnected. Always remove cable from negative (-) side of the battery for electrical safety.

## CHECK POINTS:

All bolts, drive coupling set screws and collar set screws of bearings should be checked periodically for tightness. Chain should be kept snug but not tight.

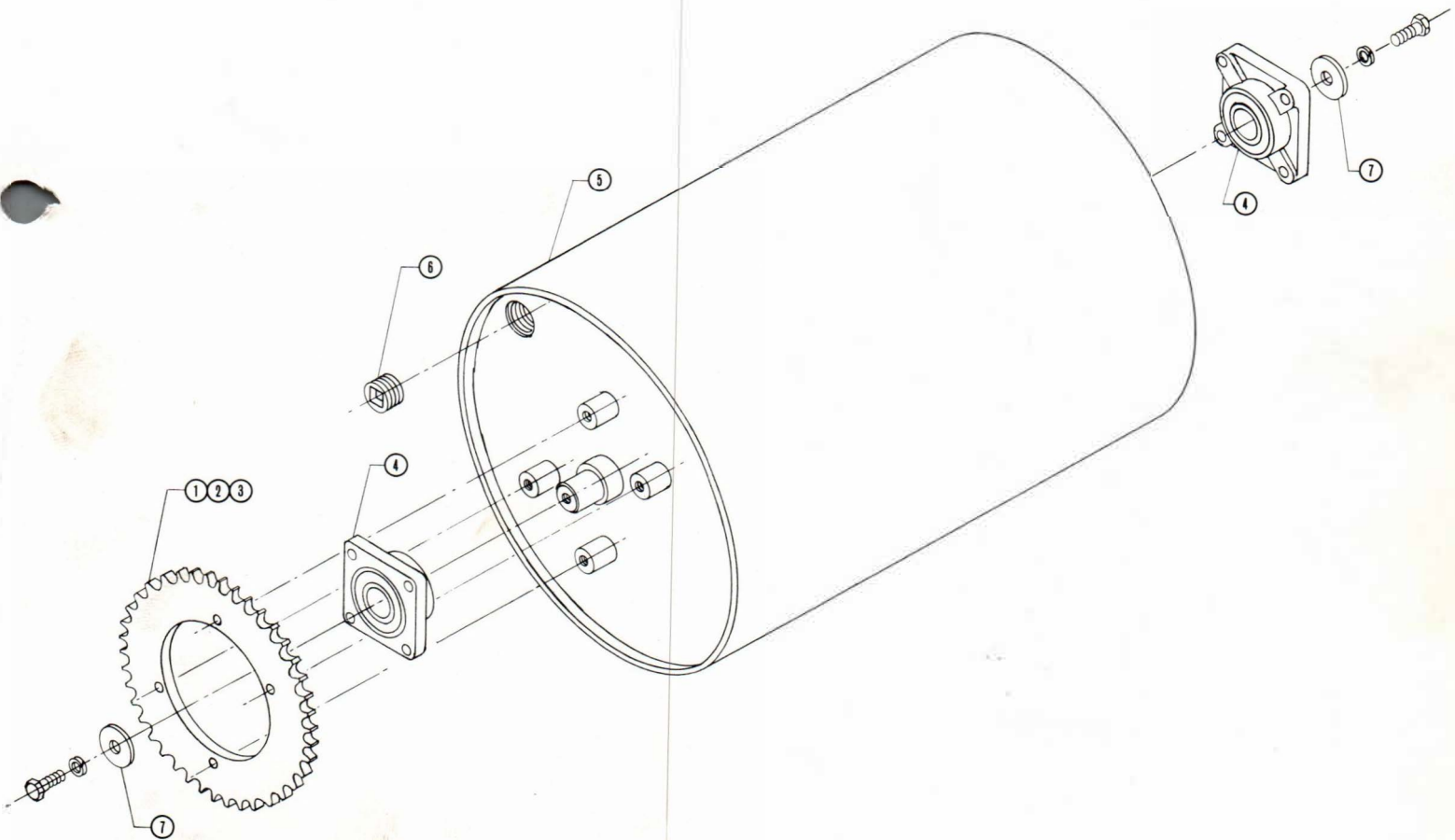
Each season lift front drums off the ground and check for any side movement of drums through Timken bearings (similar to loose auto wheel bearings). Adjust by loosening two set screws on each end of front axle and tightening cap screws (with zerk fittings) to proper adjustment. Re-tighten all set screws.

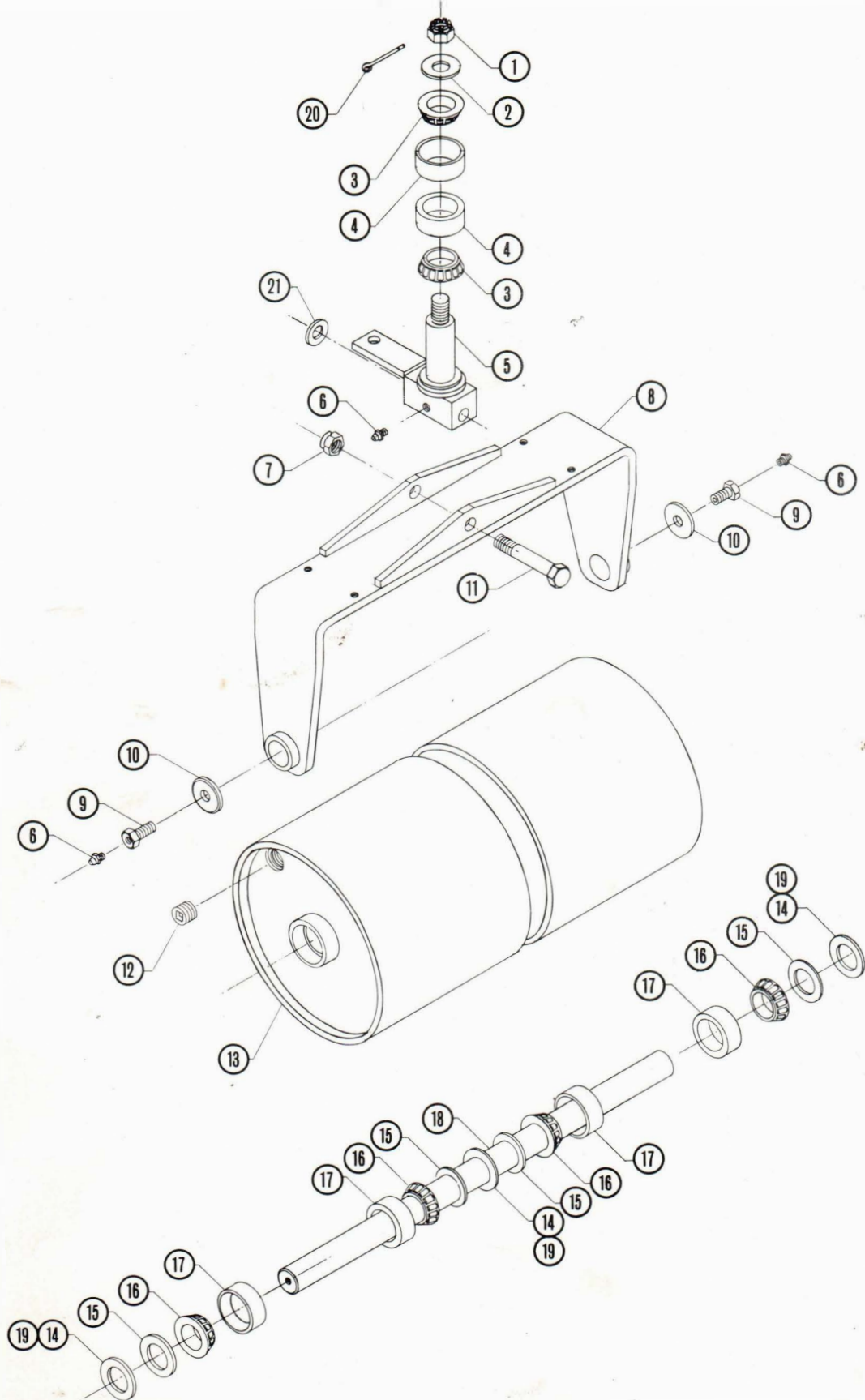
It is the customer's responsibility to supervise, train and educate his employees or any user of this equipment in its proper operation, maintenance and safety.

**NOTE:** When ordering parts be sure to indicate MODEL and SERIAL NUMBER of unit. Model and Serial number plate is located under seat on main frame.

**REAR END ASSEMBLY**

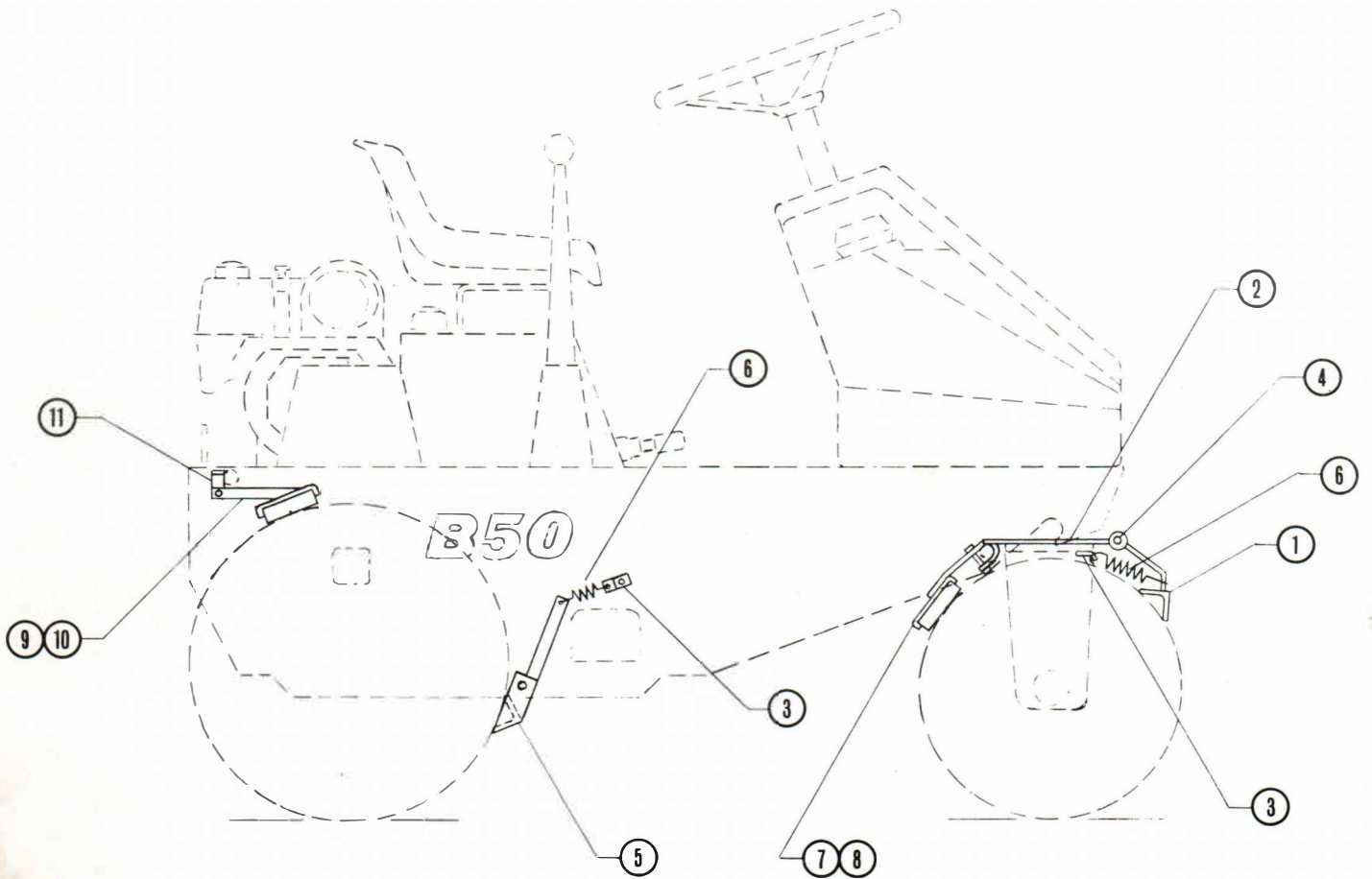
Item No.	Part No.	Description	Qty.
1	000-1589	Sprocket — Rear Drum.....	1
2	225-0007	Drive Chain — NOT SHOWN.....	1
3	000-1588 ✓	Drive Sprocket — NOT SHOWN.....	1
4	300-0003	Rear Drum Bearing.....	2
5	000S1528	Rear Drum Assembly.....	1
6	526-0001	1¼" Counter Sunk Ballast Fill Plug.....	1
7	000-1535	Washer — Rear Axle.....	2





**FRONT END ASSEMBLY**

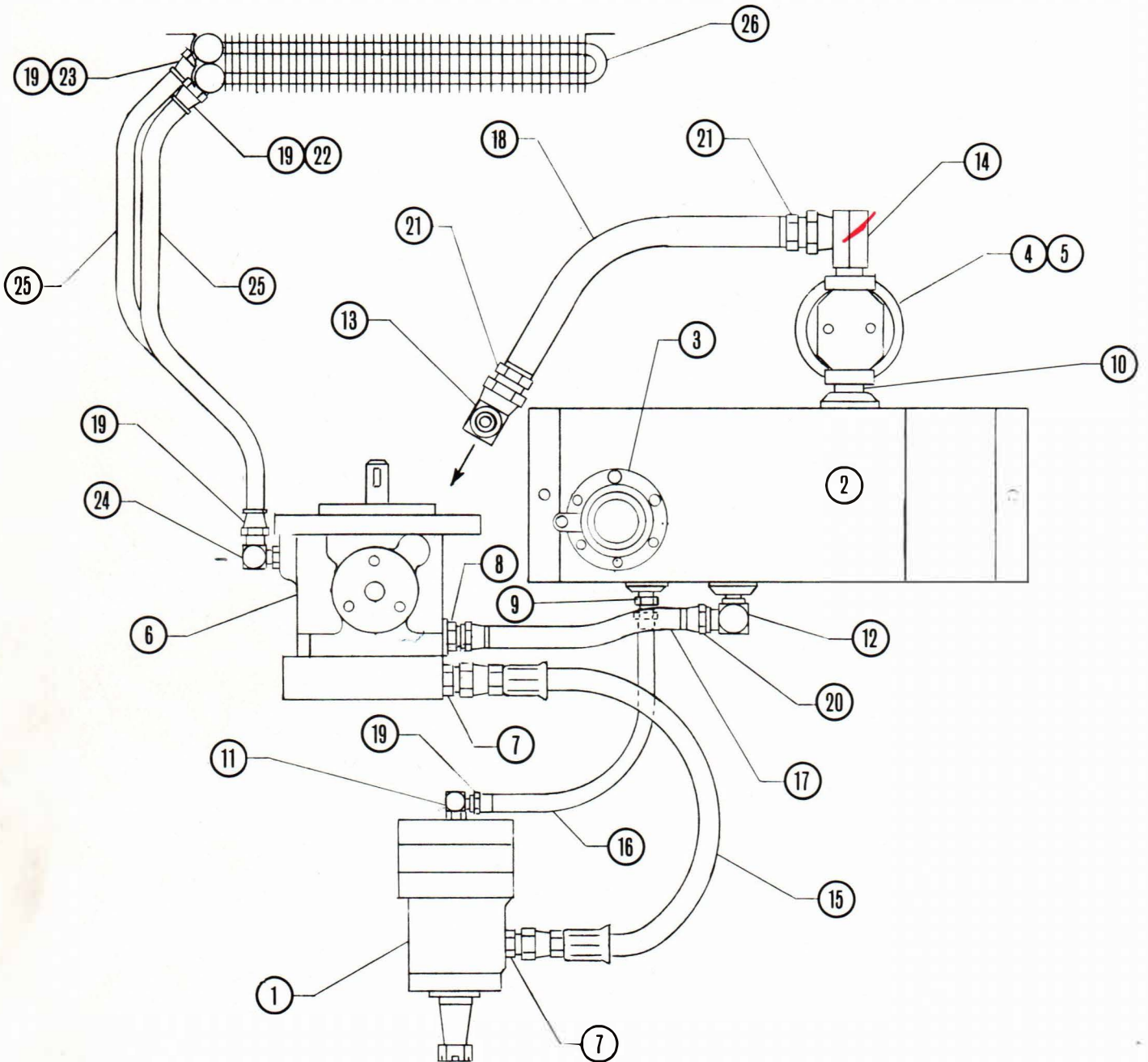
Item No.	Part No.	Description	Qty.
1	609-0026	1 1/4"-12 NF Hex Castle Nut .....	1
2	000-1043	Washer — King Pin .....	1
3	300-0001	Bearing Cone .....	2
4	300-0002	Bearing Cup .....	2
5	000S1596	King Pin Assembly... <i>REPLACE w/ 000-1380 - REMOVE ARM STOP -</i> .....	1
6	370-0001	1/4-28 NF Grease Fitting .....	3
7	607-0010	1"-8 NC Thd. Flexloc Nut .....	1
8	000S1544	Yoke Assembly .....	1
9	000-1106	Rework — Cap Screw .....	2
10	000-1518	Washer — Front Axle .....	2
11	000-1222	King Pin Bolt .....	1
12	526-0001	1 1/4" N.P.T. Countersunk Ballast Fill Plug .....	2
13	000S1520	Front Drum Assembly .....	2
14	000-1527	Front Axle Bearing Spacer - Thick (.060) .....	Vari.
15	000-1526	Front Axle Grease Seal Inner & Outer .....	4
16	300-0008	Bearing Cone .....	4
17	300-0007	Bearing Cup .....	4
18	000-1519	Front Drum Axle .....	1
19	000-1597	Front Axle Bearing Spacer - Thin (.030) .....	Vari.
20	630-0009	Cotter Pin .....	1
21	000-1292	King Bolt Spacer .....	Vari.





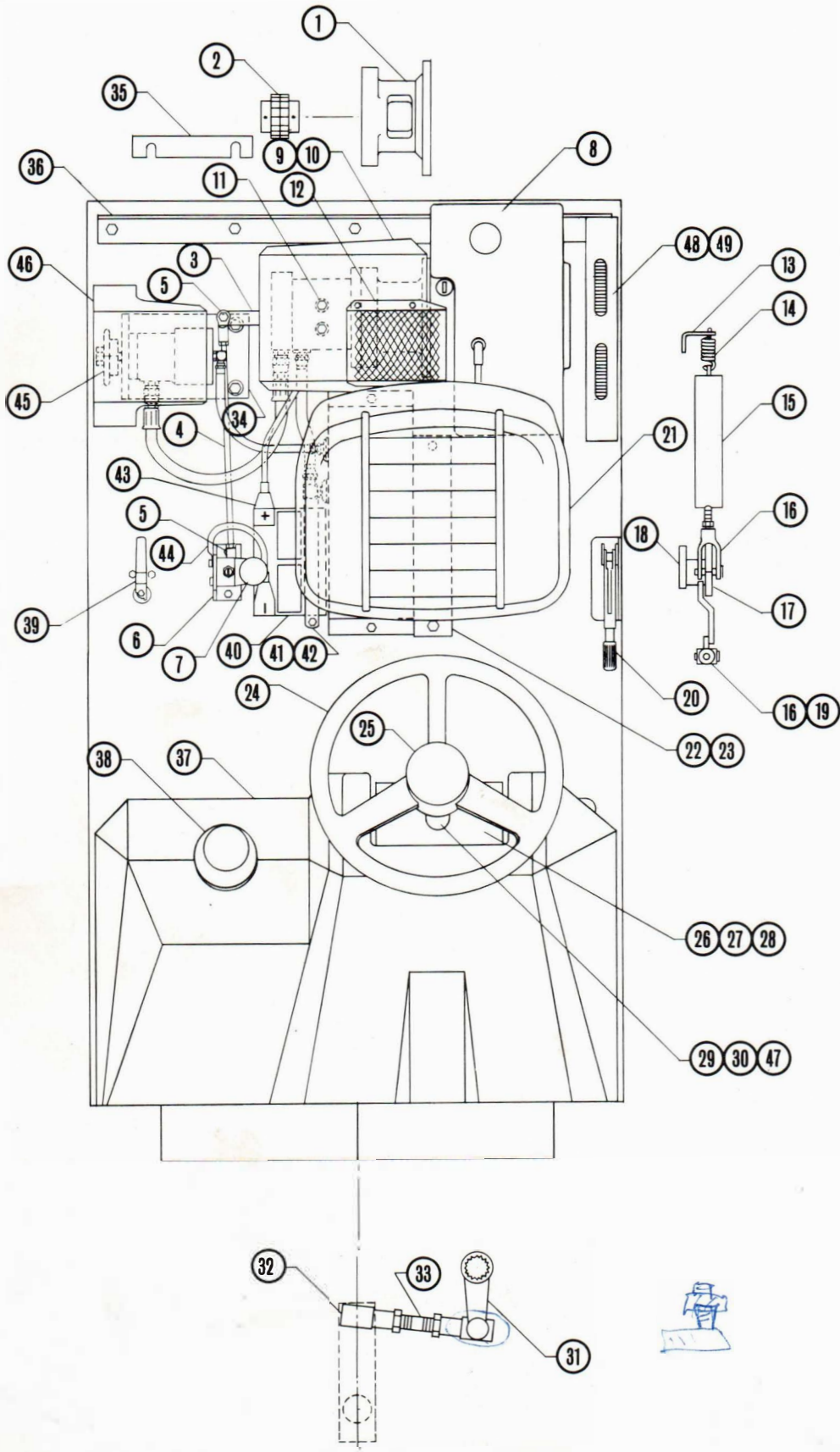
**SCRAPERS & OPTIONAL COCOA MATS**

<b>Item No.</b>	<b>Part No.</b>	<b>Description</b>	<b>Qty.</b>
1	000S1550	Front Scraper Assembly .....	1
2	000S1554	Front Scraper Mounting Bar.....	2
3	000-1556	Spring Anchor — Scraper Bars.....	4
4	000-1557	Front Scraper Pivot Rod.....	1
5	000S1567	Rear Scraper Assembly.....	1
6	000-1572	Extension Spring — Scraper Bars.....	4
7	000S1581	Cocoa Mat Pan — Front — OPTIONAL.....	1
8	355-0006	Cocoa Mat Front — OPTIONAL .....	1
9	000S1584	Cocoa Mat Pan — Rear — OPTIONAL.....	1
10	355-0007	Cocoa Mat — Rear — OPTIONAL.....	1
11	000-1587	Rear Cocoa Mat Bracket — OPTIONAL.....	2



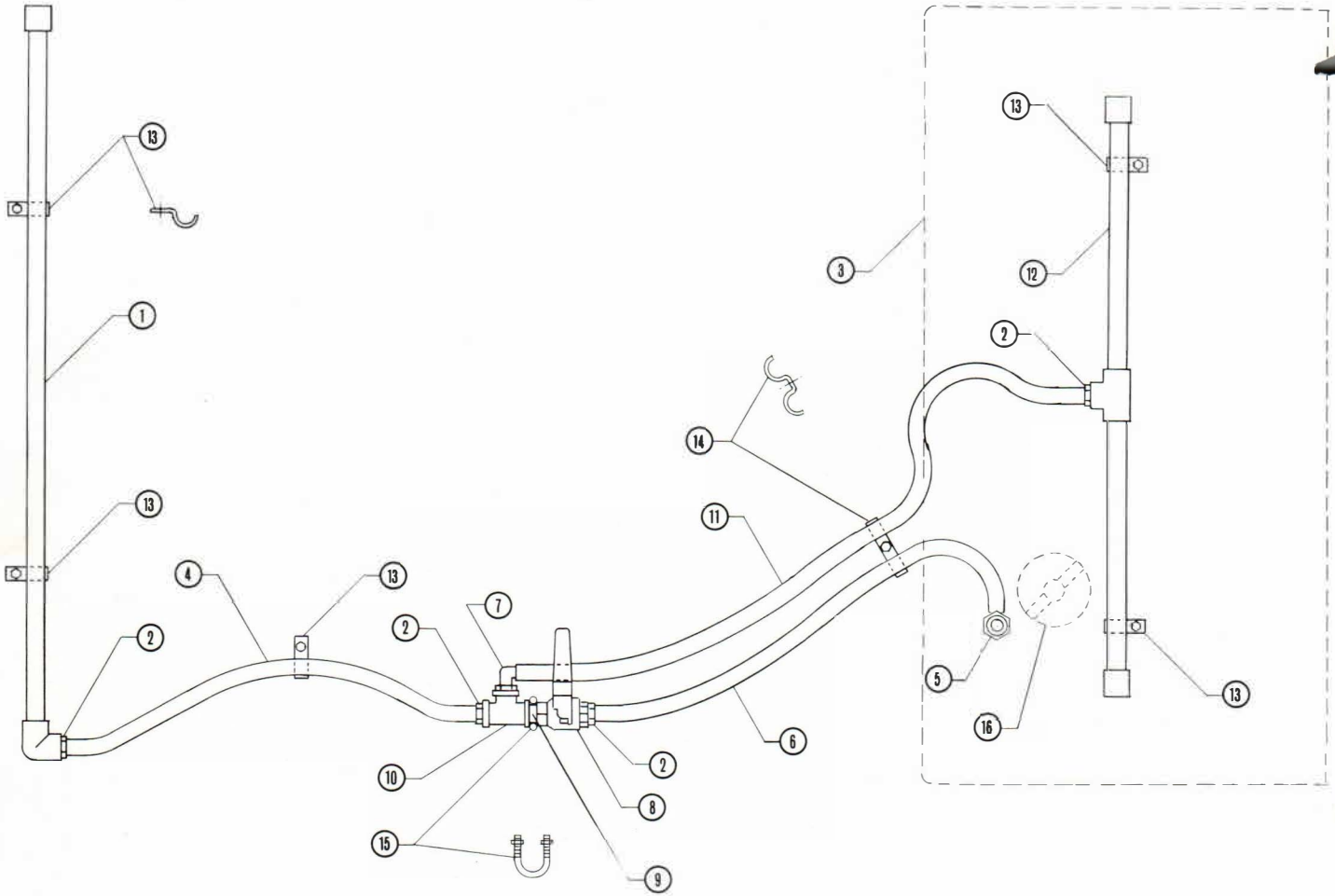
**HYDRAULIC SYSTEM**  
**(Kohler Magnum 8 H.P. Engine)**

Item No.	Part No.	Description	Qty.
1	105-0004	Hydraulic Motor.....	1
2	C000S1536	Oil Reservoir Assembly — 3 U.S. Gallons .....	1
3	350-0002	Filler Breather Assembly/Cap and 3" Screen.....	1
4	130-0001	10 Micron Filter Complete.....	1
5	130-0002	10 Micron Filter Element Only.....	1
6	100-0004	Hydraulic Pump.....	1
7	500-0016	Straight Adapter 7/16-14 Male Straight Thread 'O' Ring x 7/16-14 Male 37° JIC.....	4
8	500-0001	Straight Adapter 3/4-16 Male Straight Thread 'O' Ring x 3/4-16 Male 37° JIC.....	1
9	500-0017	Straight Adapter 3/8-18 NPT Male x 9/16-18 Male 37° JIC.....	1
10	520-0015	3/4-14 NPT x 1 1/2" Lg. Pipe Nipple.....	1
11	502-0016	90° Adapter 7/16-20 Male Straight Thread 'O' Ring x 9/16-18 Male 37° JIC.....	1
12	502-0003	90° Adapter 1/2-14 NPT Male x 3/4-16 Male 37° JIC.....	1
13	502-0004	90° Adapter 3/4-14 NPT Female Swivel x 3/4-16 Male Straight Thread 'O' Ring.....	1
14	502-0008	90° Long Adapter 3/4-14 NPT Male x 3/4-14 NPSM Female Swivel.....	1
15	404-0002	1/2" I.D. High Pressure Hose 3500 PSI — 7/8-14 Female Swivel 37° JIC B.E. x 22" Lg. ....	2
16	423-0001-9 1/2	3/8" I.D. Low Pressure Hose x 9 1/2" Lg.....	1
17	424-0001-7	1/2" I.D. Low Pressure Hose x 7" Lg. ....	1
18	426-0001-15	3/4" I.D. Low Pressure Hose x 15" Lg. ....	1
19	500-0007	Barbed Insert 9/16-18 Female Swivel 37° JIC x 3/8 Barb .....	6
20	500-0005	Barbed Insert 3/4-16 Female Swivel 37° JIC x 1/2 Barb.....	2
21	500-0006	Barbed Insert 3/4-14 NPT Male x 3/4 Barb .....	2
22	502-0006	90° Adapter 1/4-18 NPT Male x 9/16-18 Male 37° JIC.....	1
23	502-0012	90° Extended Adapter 1/4-18 NPT Male x 9/16-18 Male 37° JIC.....	1
24	502-0013	90° Adapter 9/16-18 Male Straight Thread 'O' Ring x 9/16-18 Male 37° JIC.....	2
25	423-0001-17 1/2	3/8" I.D. Low Pressure Hose x 17 1/2" Lg.....	2
26	125-0001	Heat Exchanger .....	1



**MISCELLANEOUS COMPONENTS**

Item No.	Part No.	Description	Qty.
1	345-0001	Pump Mount (000-1372).....	1
2	230-0001	Chain Coupling.....	1
3	000S1564	Pump Control Lever.....	1
4	000-1559	Rod-Pump Control.....	1
5	645-0022	Ball Joint.....	2
6	000-1563	Control Lever Support.....	1
7	000S1562	Forward & Reverse Control Lever Assembly.....	1
8	200-0021	Engine — SHOWN Kohler M8ST 8HP/Elec. & recoil start (Specify other Make & Model No.)...	1
9	000-1578	Cover—Hydraulic Pump.....	1
10	000-1579	Bracket—Hydraulic Pump Cover.....	2
11	000-1580	Support—Hydraulic Pump Cover.....	2
12	000-1595	Muffler Heat Guard—Kohler Engine.....	1
13	000-1337	Spring Anchor.....	1
14	360-0001	Tension Spring.....	1
15	000S1341	Brake Band Assembly.....	1
16	635-0002	Clevis.....	3
17	000S1346	Rotor Assembly.....	1
18	000S1336	Spindle Base Assembly.....	1
19	000-1534-	Brake Rod.....	1
20	310-0001	Brake Lever.....	1
21	385-0012	Seat.....	1
22	000-1517	Seat Mounting Bracket—Kohler Engine.....	1
23	000-1590	Seat Mounting Bracket—Honda Engine.....	1
24	330-0004	Steering Wheel.....	1
25	330-0005	Steering Wheel Cap.....	1
26	000-1501	Steering Column Plate.....	1
27	000-1182	Mounting Bar—Steering Column.....	1
28	000-1515	Brace—Steering Column.....	1
29	330-0002	Steering Gear Assemble— NOT SHOWN.....	1
30	330-0003	Steering Column.....	1
31	330-0001	Pitman Arm.....	1
32	645-0001	Ball Joint.....	2
33	000-1044	Steering Tie Rod.....	1
34	000S1118	Foot Mount Assembly—Hydraulic Motor.....	1
35	000-1543	Shim—Hydraulic Motor.....	Vari.
36	000-1516	Rear Stiffening Angle.....	1
37	000-1500	Polyethylene Water Tank.....	1
38	350-0004	Vented Cap—Water Tank.....	1
39	530-0001	½" Bronze Ball Valve.....	1
40	335-0053	Battery 12 Volt.....	1
41	000-1591	Battery Hold Down Strap.....	1
42	385-0013	Battery Hold Down Bolt W/Wing Nuts & Washer.....	2
43	335-0073	Battery Cable—Positive.....	1
44	335-0020	Battery Cable—Negative.....	1
45	000-1588	Drive Sprocket.....	1
46	000S1575	Chain Guard — Hydraulic Motor.....	1
47	330-0007	Coupling — Steering.....	1
48	125-0002	Heat Exchanger.....	1
49	000S1541	Heat Exchanger Bracket/Guard.....	1



### SPRINKLER SYSTEM

Item No.	Part No.	Description	Qty.
1	000S1549	Rear Sprinkler Bar Assembly (PVC).....	1
2	540-0002	Straight Adapter 1/2 NPT x 1/2 Barb.....	4
3	000-1500	Water Tank (Polyethylene) .....	1
4	424-0001-20	1/2" I.D. Low Pressure Hose x 20" Lg. ....	1
5	542-0003	90° Adapter 3/4 NPT x 1/2 Barb .....	1
6	424-0001-22 1/2	1/2" I.D. Low Pressure Hose x 22 1/2" Lg. ....	1
7	542-0002	90° Adapter 1/2 NPT x 1/2 Barb .....	1
8	530-0001	1/2" Bronze Ball Valve.....	1
9	520-0010	1/2" Close Nipple Galvanized Pipe.....	1
10	523-0001	1/2" NPT Tee Galvanized Pipe .....	1
11	424-0001-42	1/2" I.D. Low Pressure Hose x 42" Lg. ....	1
12	000S1548	Front Sprinkler Bar Assembly (PVC) .....	1
13	645-0008	1/2" Pipe Clamp.....	5
14	645-0009	1/2" Double Pipe Clamp.....	1
15	645-0019	U-Bolt for Ball Valve.....	1
16	350-0004	Vented Cap — Water Tank.....	1

**SERVICE RECORDS**

Dealer Name \_\_\_\_\_

Purchase Date \_\_\_\_\_ Serial No. \_\_\_\_\_

Engine Make & Model No. \_\_\_\_\_

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## B50 SPECIFICATIONS

### WEIGHTS & DIMENSIONS

Shipping Weight.....	1165 Lbs.
Working Weight.....	2000 Lbs.
Overall Length.....	68 In.
Overall Height.....	56 In.
Overall Width.....	38 In.
Wheelbase.....	48 In.
Curb Clearance.....	8.5 In.
Wall Clearance.....	.875 In.
Turning Radius Inside.....	52 In.

### FRONT DRUM SPLIT

Overall Width.....	28 In.
Diameter.....	18 In.
Shell Thickness.....	.3125 In.
Oscillation.....	24° Total
Steering Front Drum.....	Automotive Type (Mechanical)

### REAR DRUM

Overall Width.....	34.75 In.
Diameter.....	22 Ins.
Shell Thickness.....	.3125 In.

### PROPULSION

Drive System.....	Hydrostatic
Travel Speed.....	0-5 MPH
Engine*.....	Kohler 8 HP Magnum Single Cylinder Electric Start W/12V Battery

### TANKS

Fuel Tank.....	1.25 Gal.
Hydraulic Oil Res.....	3 Gal.
Water Tank Polyethylene.....	22 Gal.

### MISCELLANEOUS

Brakes.....	Dynamic with mechanical band type parking brake on rear drum.
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### OPTIONAL EQUIPMENT

Special Paint  
Cocoa mat Assembly

\*Other Engines Available