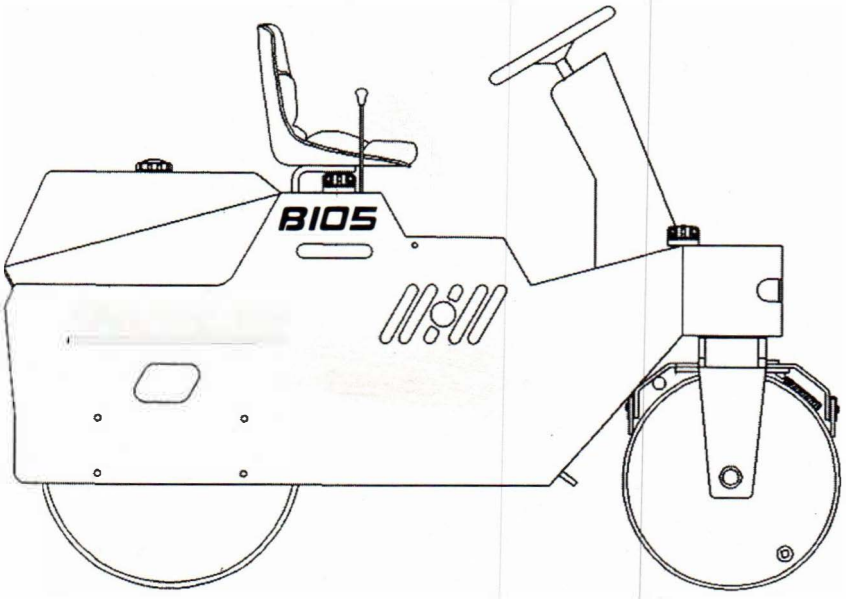
NEW BEUTHLING

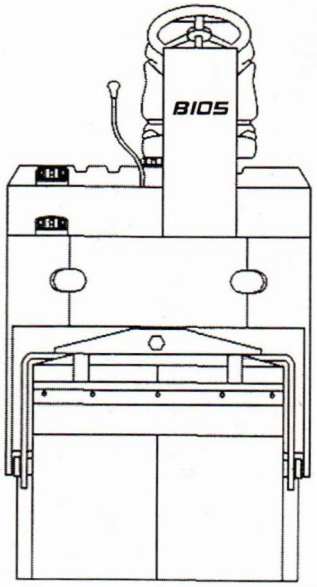
OWNER'S MANUAL
PARTS MANUAL

B105 STATIC

RIDE-ON STATIC COMPACTOR - 1 1/2 TON
GASOLINE & DIESEL ENGINES

SERIAL NUMBER 105501 & UP





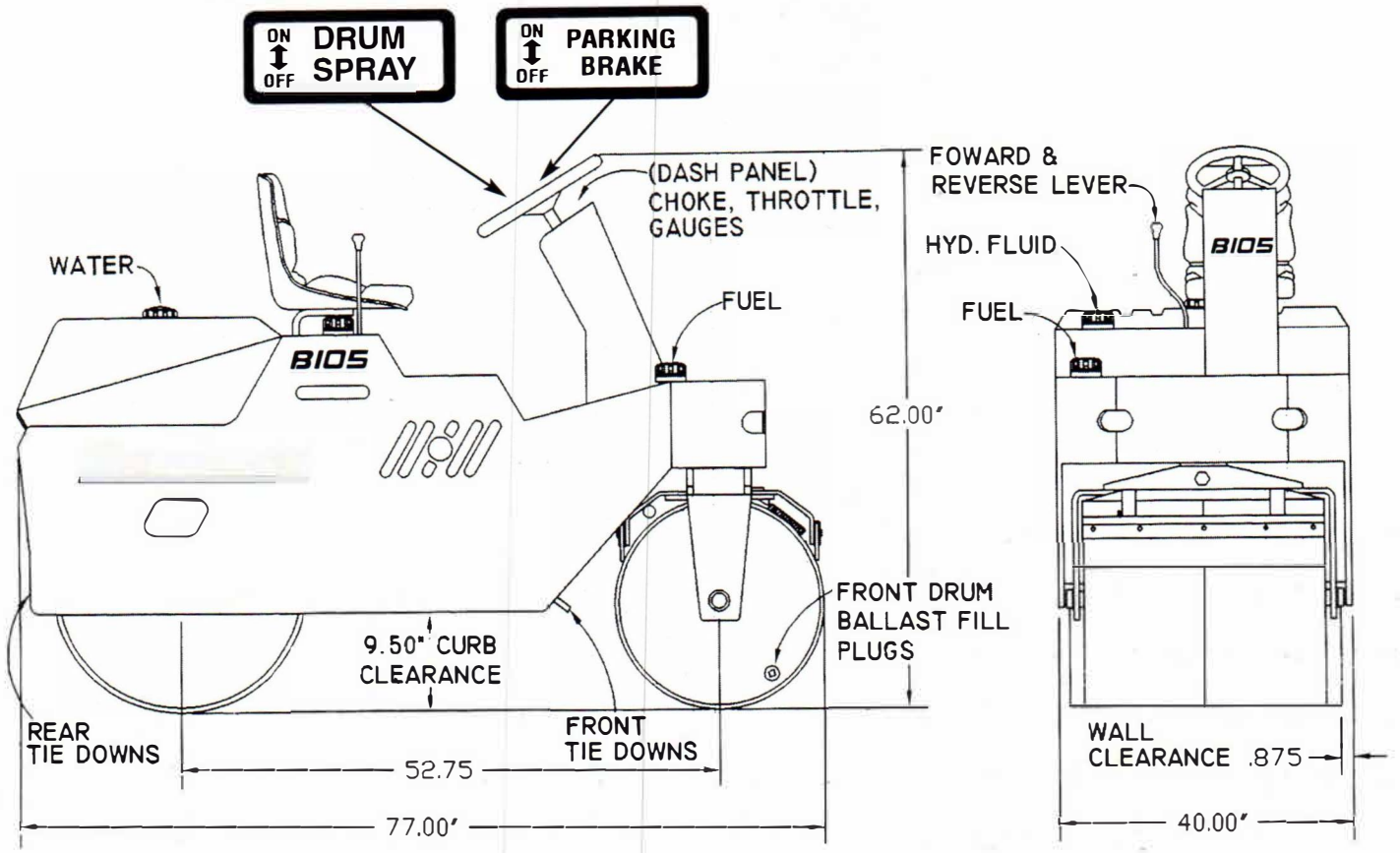
WARNING! READ THIS MANUAL AND CIMA ROLLER COMPACTOR SAFETY MANUAL BEFORE OPERATING OR SERVICING YOUR MODEL B105.

TABLE OF CONTENTS

NOTE:

FOR ALL INQUIRES PLEASE INDICATE:
- BEUTHLING MODEL
- BEUTHLING SERIAL NUMBER
- ENGINE MAKE & MODEL
- ENGINE SPEC NUMBER

MODEL & SERIAL NUMBER PLATE IS LOCATED ON FRONT MAIN FRAME



⚠ SAFETY WARNING ⚠

- **BEFORE OPERATING UNIT, READ AND UNDERSTAND "OWNER'S MANUAL."**
- **IT IS THE CUSTOMER'S RESPONSIBILITY TO SUPERVISE, TRAIN AND EDUCATE THEIR EMPLOYEES OR ANY OTHER USER OF THIS EQUIPMENT FOR PROPER OPERATION, MAINTENANCE AND SAFETY.**
- **KEEP HANDS AND FEET CLEAR WHEN UNIT IS RUNNING OR MOVING.**

OPERATING OR PARKING THIS UNIT ON INCLINES, HILLS, RAMPS OR NEAR THE EDGE OF A WORK SURFACE MAY BE DANGEROUS AND CAUSE THIS UNIT TO BECOME UNSTABLE OR ROLLOVER.

ALWAYS BE IN CONTROL OF YOUR UNIT

FAILURE TO OBEY SAFETY WARNINGS MAY RESULT IN SERIOUS INJURY TO OPERATOR OR OTHERS.

380-0027 REV

OPERATION

⚠ *WARNING:*

Read this manual and the CIMA "Roller - Compactor Safety Manual", supplied with the machine, BEFORE starting, operating, or servicing the machine.

Before starting engine make certain control lever is in "NEUTRAL" (center) position.The transmission MUST be in the "NEUTRAL" position for the engine to be started. A neutral start switch has been included within the electrical system. The brake rocker switch is located on the console dash panel and is **"ON"** (or brake applied) when rocker switch is in **UP** position and **"OFF"** when rocker switch is in **DOWN** position.

When brake rocker switch is **"ON"**, red indicator light is **LIT** and **ALARM** buzzer is **SOUNDING**.

⚠ *WARNING:*

The machine MUST NOT move, at ANY time, when the secondary/parking brake rocker switch is in the "ON" (up) position.

DO NOT operate the machine, if the machine will MOVE when the secondary/parking brake rocker switch is "ON".

NEVER drive the machine with the secondary/parking brake rocker switch "ON".

When starting, if so equipped, and not previously done, unlock the locks securing the floor and dash covers. Move the dash cover to the stowed position.

Continued next page

If so equipped with ROPS, IMMEDIATELY, after being seated, place the seat belt across the lap and SECURELY insert the metal end into the belt buckle. TIGHTEN the belt, AGAINST the body, by pulling on the loose end of the belt.

Move the engine speed throttle control to the LOW (down) engine idle speed position. Pull the engine choke knob to the "choke" (up) position, if the engine is cold.

Turn the ignition switch key to the START position. Crank and start the engine. If used, push the choke knob "in" as the engine warms. Put the engine throttle speed (RPM) control in the desired engine speed position and turn the throttle control handle clockwise to "lock" in position.

CAUTION

If the engine does NOT start within ten (10) seconds of continuous cranking, turn the ignition key switch to the "OFF" position and wait at least thirty (30) seconds. This will allow the starter motor time to cool. Try starting the engine again. Do NOT increase the speed of the engine ABOVE the LOW rpm for a period of one (1) minute, to allow the hydraulic oil to reach operating temperature.

WARNING:

Do NOT put the engine throttle speed (RPM) handle in the "FULL" engine speed position when the machine is being run in a confined area, or is near ANY object.

Check operation of ALL gauges and instruments. Check the operation of ALL other optional equipment, such as rotating beacon and work lights, if so equipped. The machine is put into motion by moving the control lever in the direction of the travel desired. PUSHING the lever in the FORWARD direction will select a FORWARD direction of machine travel. PULLING the lever in the BACKWARD direction will select the REVERSE direction of the machine travel. If so equipped, note that the back up alarm system sounded when the control lever moved within the REVERSE position. The machine travel speed is proportional to the amount of the control lever movement, UNTIL full lever travel has been reached, in EITHER direction. The control lever should be moved slowly from one direction through neutral to the opposite direction. The procedure utilizes the hydraulic system's DYNAMIC BRAKING capability to bring the machine's weight to a complete stop, at neutral, before going in the opposite direction. This procedure allows the transmission system and engine to slow the machine to a stop.

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

WARNING:

Slowing or stopping of machine during LEVEL surface operation is done by moving the directional/speed control lever TOWARD, and then TO the NEUTRAL position. Slow, or stop, the machine on a SLOPE, by moving the directional/speed control lever to the direction OPPOSITE the direction of machine travel.

If the machine speed can NOT be controlled through the use of dynamic braking, use dynamic braking AND the secondary/parking brake system to slow, and then stop the machine.

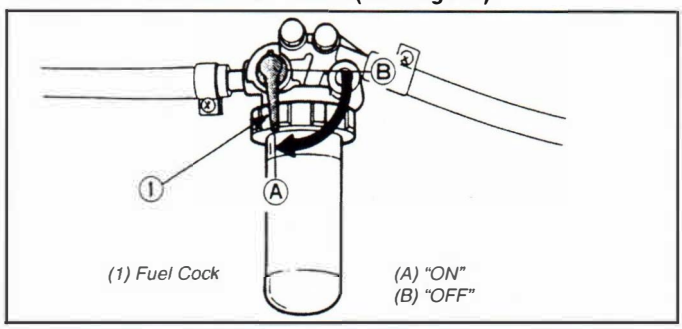
The secondary/parking brake system MUST be used to hold the machine in a "stopped" condition at ALL times. The transmission system will NOT hold the machine in a "stopped" condition.

STARTING DIESEL ENGINE

IMPORTANT:

- **Do not use ether or any starting fluid for starting the engine, or a severe damage will occur.**
- **When starting the engine after a long storage (of more than 3 months), first set the stop lever to the "STOP" position and then activate the starter for about 10 seconds to allow oil to reach every engine part.**

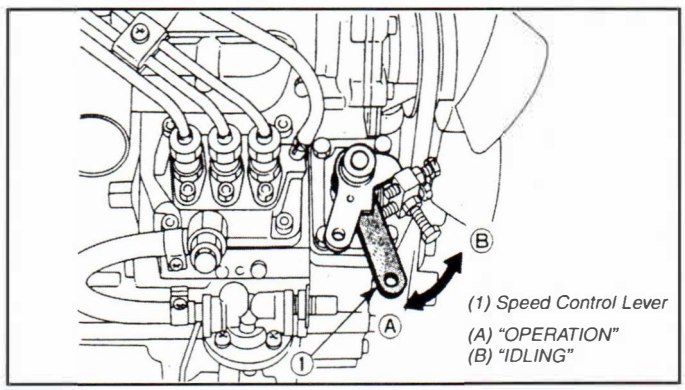
1. Set the fuel cock to "ON".(on engine)



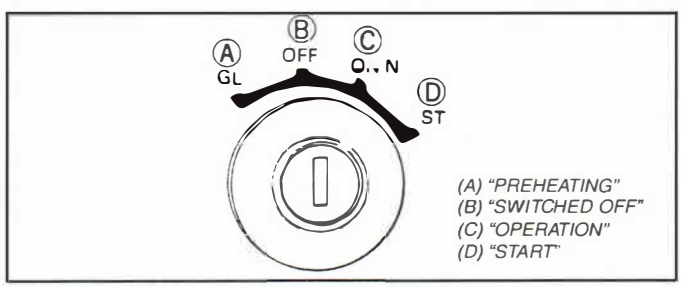
2. Move directional/speed control lever to "Neutral" position.

3. Pull the engine stop cable up in "START" position.

4. Set the throttle handle at more than half "OPERATION".



4. Insert the Ignition key into the key switch and turn it "ON".



5. Turn the Ignition Key to the "PREHEATING" position to allow the glow lamp timer indicator to illuminate.

COLD WEATHER STARTING DIESEL

If the ambient temperature is below –5˚C(23˚F) and the engine is very cold, start it in the following manner:
Take steps (1) through (4) left.

Turn the Ignition Key to the "PRE-HEAT" position and keep it there for a certain period mentioned below.

IMPORTANT:

- **Shown below are the standard preheating times for various temperatures. This operation, however, is not required, when the engine is warmed up.**

Temperature	Preheating Time
Over 10˚C(50˚F)	About 6 sec.
Below -5˚C(23˚F)	About 10 to 15 sec.

Note:
(with lamp timer in use)

- **The glow lamp goes out in about 6 seconds when the lamp timer is up. Refer to this for pre-heating. Even with the glow lamp off, the glow plug can be pre-heated by turning the Ignition Key switch to the "PREHEATING" position.**

6. **Turn the Ignition Key to the "START" position and the engine should start. Release the Ignition Key immediately when the engine starts.**

7. **Check to see that the oil pressure guage and battery guage are indicating properly, if not immediately stop the engine, and determine the cause.**

(See "CHECKS DURING OPERATION" in "Operating the Engine" Section of Kubota Operators Manual.)

Note:

- **If the oil pressure drops below normal immediately stop the engine and check;**
  - **–if there is enough engine oil.**
  - **–if the engine oil has dirt in it.**
  - **–if the wiring is faulty.**
- **If the engine does not catch or start at 10 seconds after the Ignition Key is set at "START", wait for another 30 seconds and then begin the engine starting sequence again. Do not allow the starter motor to run continuously for more than 20 seconds.**

8. **Warm up the engine at medium speed without load.**

IMPORTANT:

- **Do not allow the starter motor to run continuously for more than 20 seconds.**
- **Be sure to warm up the engine not only in winter, but also in warmer seasons. An insufficiently warmed-up engine can shorten its service life.**
- **When there is fear of temperature dropping below –15˚C (5˚F) detach the battery from the machine, and keep it indoors in a safe area, to be reinstalled just before next operation.**

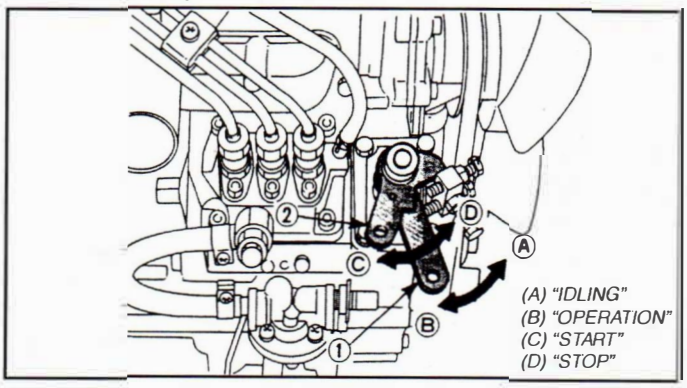
STOPPING DIESEL ENGINE

1. Move directional/speed control lever to **neutral position.**
2. Set engine **throttle handle** to **idle** position. (Down)
3. Set **parking brake switch** to ON position.
4. Push **stop cable** down and hold until engine stops.
5. Turn **ignition key** counterclockwise to **off position** and remove from switch. Do not turn ignition key to off position until engine stops. Spring actuated brakes **will not** be applied with ignition switch on.
6. Pull up to return **stop cable** to start/run position for next engine starting.

EMERGENCY SHUTDOWN PROCEDURE: (Diesel Engine)

1. Move directional/speed control lever to **neutral position.**
2. Stop engine by pushing engine **stop cable** down.
3. Turn **ignition key** counterclockwise to **Off Position** and remove from switch. Parking Brake is spring actuated when engine is stopped and Ignition Switch is turned off.

See Kubota Engine Owners Manual for additional details on engine operation.



(1) Speed Control Lever
(2) Engine Stop Lever

DYNAMIC BRAKING
Hydrostatic drive motor in rear drum provides hydraulic dynamic braking when the directional/speed control lever is moved to neutral.

SECONDARY / PARKING BRAKE:
Failsafe, mechanical disc brakes in the hydrostatic drive motor are spring actuated when engine is stopped. Brake is hydraulically released when engine is started. Manual parking brake switch on console controls solenoid hydraulic valve which actuates, and releases secondary/parking brake when engine is running. Manual switch in **"OFF"** position releases brakes, and in **"ON"** position actuates brakes.

WARNING:

Do Not try to move machine with secondary parking brake engaged. Backup pressure of hydraulic system with low engine RPM's may have adverse affects on engine and hydraulic system if this happens.

DRUM SPRAY SYSTEM
The pressurized water spray system will help keep both drums clean when compacting asphalt. Fill the water tank with clean water.

Put the water spray system control switch in the "ON" position (located on dash). NEVER run the system dry.

A full width cocoa mat is located on each drum and is used in combination with the drum spray system to help keep the drum surface wet and clean.

DRUM SCRAPERS
Both the front and rear drums are equipped with full width, adjustable rubber scrapers which are mounted ahead of, and behind each drum. These scrapers are designed to help keep large pieces of material from clinging to the drums when traveling in either direction. The scrapers must remain adjusted against the surface of the drums at all times.

DRUM BALLAST
This machine is designed for use with or without liquid ballast in the front drums only.

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 front roller for filling and draining purposes, be sure to fill or drain both front drums.

MACHINE TRANSPORT
When the machine is being moved by truck or trailer, use SOLID wood blocking. Use SOLID wood blocks in front, and at the rear, on EACH side of EACH drum. Four (4) tie-down areas are provided and are to be used, with the blocking, to secure the machine to the truck or trailer bed when transporting the machine. Secure all fill caps and covers before transporting.

MAINTENANCE

WARNING:

DO NOT operate machine if any part is not in proper operating condition or is missing. Always remove key from switch when performing maintenance (engine off), leaving equipment unattended or when equipment is not in use.

ENGINE (GASOLINE)
Daily check the engine lubrication oil level in the crankcase. The engine lubrication oil MUST be kept at a level ABOVE the "ADD" mark but NOT ABOVE the "FULL" mark on the engine lubrication oil dipstick. A low oil warning indicator "Red" light is located on dash. Check engine oil when lit. Check the engine inlet air cleaner condition and remove and replace as needed.

CAUTION:

See the "Engine Operation and Maintenance Instruction Manual", published by the Kohler or Kubota Engines, for approved, correct engine component inspection and maintenance periods and/or procedures.

HYDRAULIC SYSTEM
After a new machine has run FIVE (5) hours, the oil filter should be changed. This is to rid the system of any trapped contamination from factory assembly. ANYTIME the filter has been changed, IDLE engine for three (3) 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 250 hours or yearly, sooner if conditions warrant, i.e., extreme dust or condensation. The B105 is equipped with a 10 quart oil reservoir - when changing or adding fluid, use H.D. 32HYD Fluid or Equivalent. 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 at the "middle" of the screen in the fill neck. Never fill reservoir to overflowing.

DIRECTIONAL CONTROL LEVER
Lubricate the directional control lever and cable assembly exposed, and pivoting part areas, with EP-2 chassis grease. NO zerk fitting is found on the directional control level and/or cable assembly. Inspect the mechanical condition of the control lever and cable assembly. It must NOT be loose, damaged, or bind within the lever, or cable. Repair, or replace, the direction control lever and/or cable assembly if any damage is noted.

FRONT DRUMS
Several times per year, lift the front drums and check for any side movement (end play) of the drums, through the tapered roller bearings. If needed, adjust the movement by loosening the two (2) set screws found on each end of the front axle and tightening the Axle bolts (having grease zerks) to obtain correct end play. Retighten the set screws.

DRUM SCRAPERS/COCOA MATS
Check the condition and adjustment of all four (4) rubber scrapers, if worn beyond adjustment replace with new. NOTE: Rubber scrapers can be removed and flipped to opposite side to extend life. Check and replace both cocoa mats when worn or damaged. Never allow steel pans to come in contact with drum. Front and rear cocoa mats pans are designed to pivot away from drums when not in use.

BEARINGS
Lubricate each of the four (4) front axle bearings through the one (1) zerk fitting found at the left, and (1) zerk on the right end of the front axle shaft with EP-2 chassis grease. Use enough grease through zerk fitting to purge old grease on inner bearings.

All bolts, drive coupling set screws and collar set screws of bearings, should be checked during each periodical maintenance check and lubrication activity.

See lubrication chart in this manual and under center floor cover for complete bearing lubrication.

DRUM SPRAY SYSTEM

The water should be drained from the system when freezing temperatures are expected. Remove drain plug Item (13) to drain tank. Remove Hoses Items (9) and (24) to drain pump and valves. See Drum Spray System Diagram page 19.

ELECTRICAL SYSTEM

This system is 12-volt, during engine and other system maintenance inspections, check the electrical wiring for correct routing and support. Inspect the wires for loose terminal connections, cracks or wear in the wiring insulation and for corrosion.

WARNING:

BATTERY EXPLOSION CAN OCCUR IF A BATTERY IS SHORTED. ALWAYS disconnect BOTH the positive (+) AND the negative (–) battery cables from a battery, BEFORE ANY repair procedures are done to the electrical wiring or components. DO NOT weld on machine unless battery is disconnected and removed.

A thirty (30) amp circuit breaker has been installed in the electrical circuit. It is located under the dash. If a circuit overload occurs, the circuit breaker will reset automatically every ten (10) seconds, or until the cause of the overload has been located and corrected.

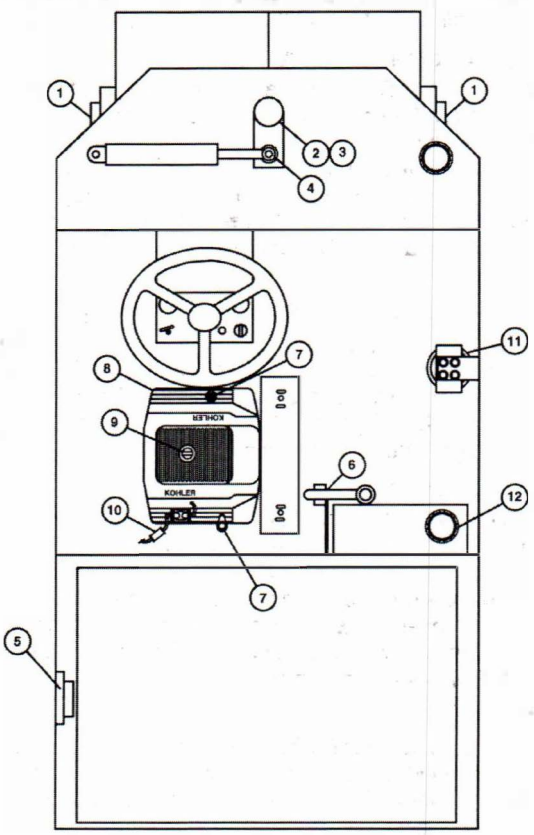
Gasoline units have three functions monitored by gauges on the dash panel. These functions are: VOLTMETER, HOURMETER and FUEL GAUGE, (Optional). Diesel units have five functions monitored by gauges on the dash panel. These functions are; ENGINE OIL PRESSURE, ENGINE WATER TEMPERATURE, VOLTMETER, HOURMETER and FUEL GAUGE, (optional).

For indicator light functions refer to Operation, pages 1-4.

NEVER attempt to disconnect the hourmeter. Engine and machine operating hours are essential for proper machine maintenance.

LUBRICATION CHART

MODEL B105



REF. NO.	LUBRICATION POINT	DAILY	WEEKLY	MONTHLY	250 HOURS	TYPES OF LUBRICATION	LUB. FITTING
1	Front Axle Bearings		•			EP-2 Chassis Lub.	Yes (2)
2	Front Pivot Tube		•				Yes
3	Oscillating King Pin		•				Yes
4	Steering Cylinder Rod End		•				Yes
5	Rear Drum Bearing			•			Yes
6	Control Lever		•				No
7	Engine Crankcase/Dipstick	✓				See Engine Manual	No
8	Engine Oil Filter				•		No
9	Engine Air Cleaner	✓			•		No
10	Fuel Filter				•		No
11	Hydraulic Oil Filter				•	Replace Filter Element	No
12	Hydraulic Oil Reservoir	✓			•	Sunco TH Fluid or Equivalent 10 U.S. qt.	No

✓ Check
• Lube or Change
See Owner's Manual For Further Details

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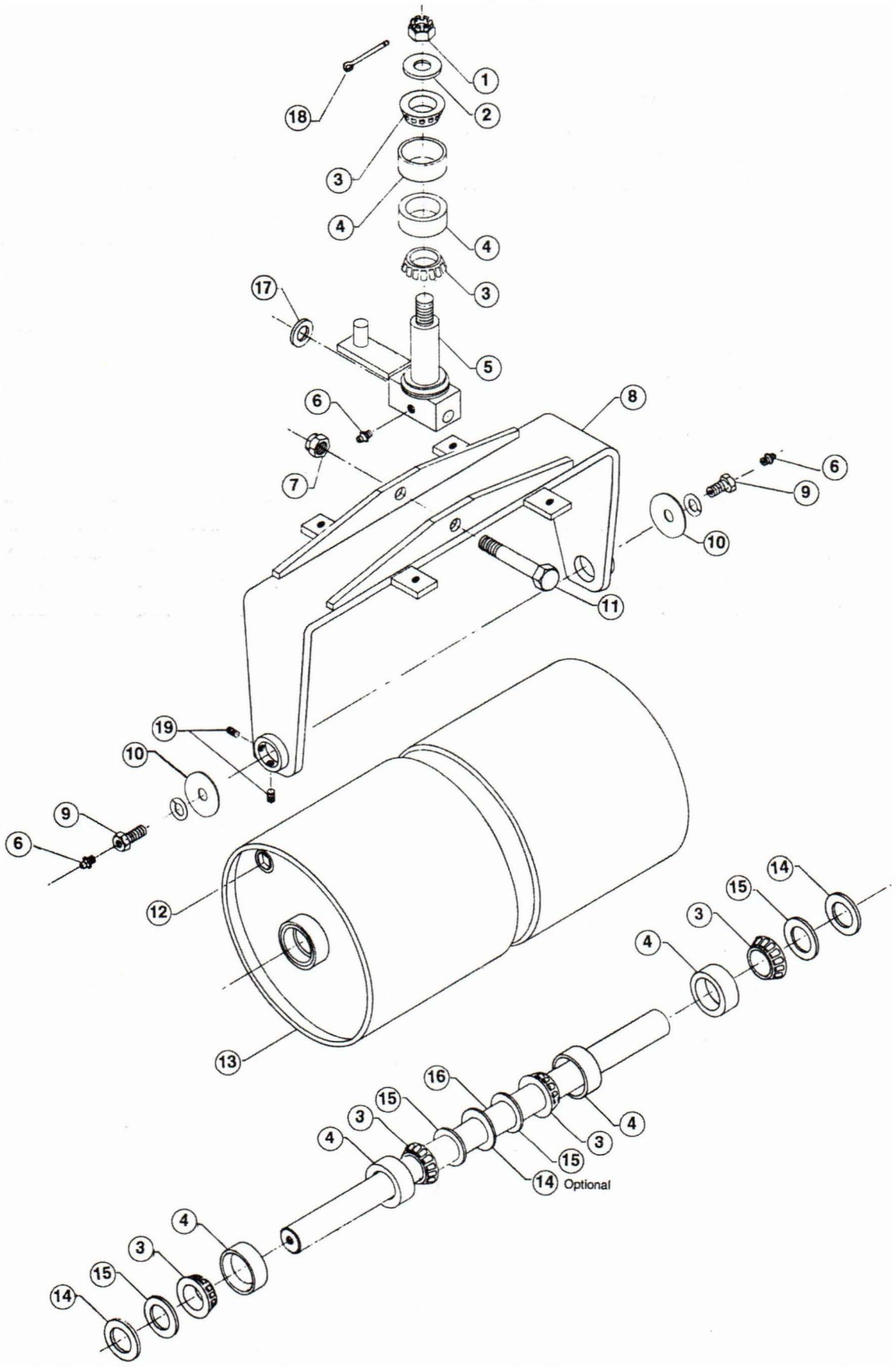
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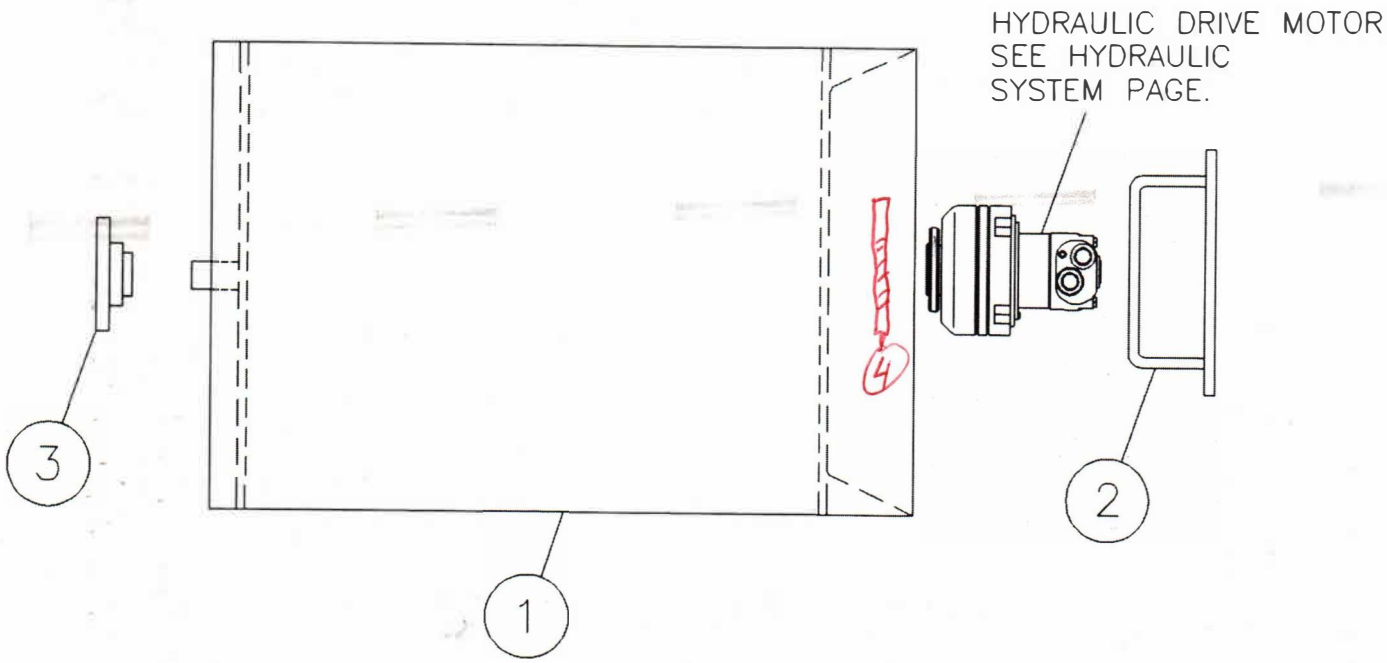
FRONT END ASSEMBLY

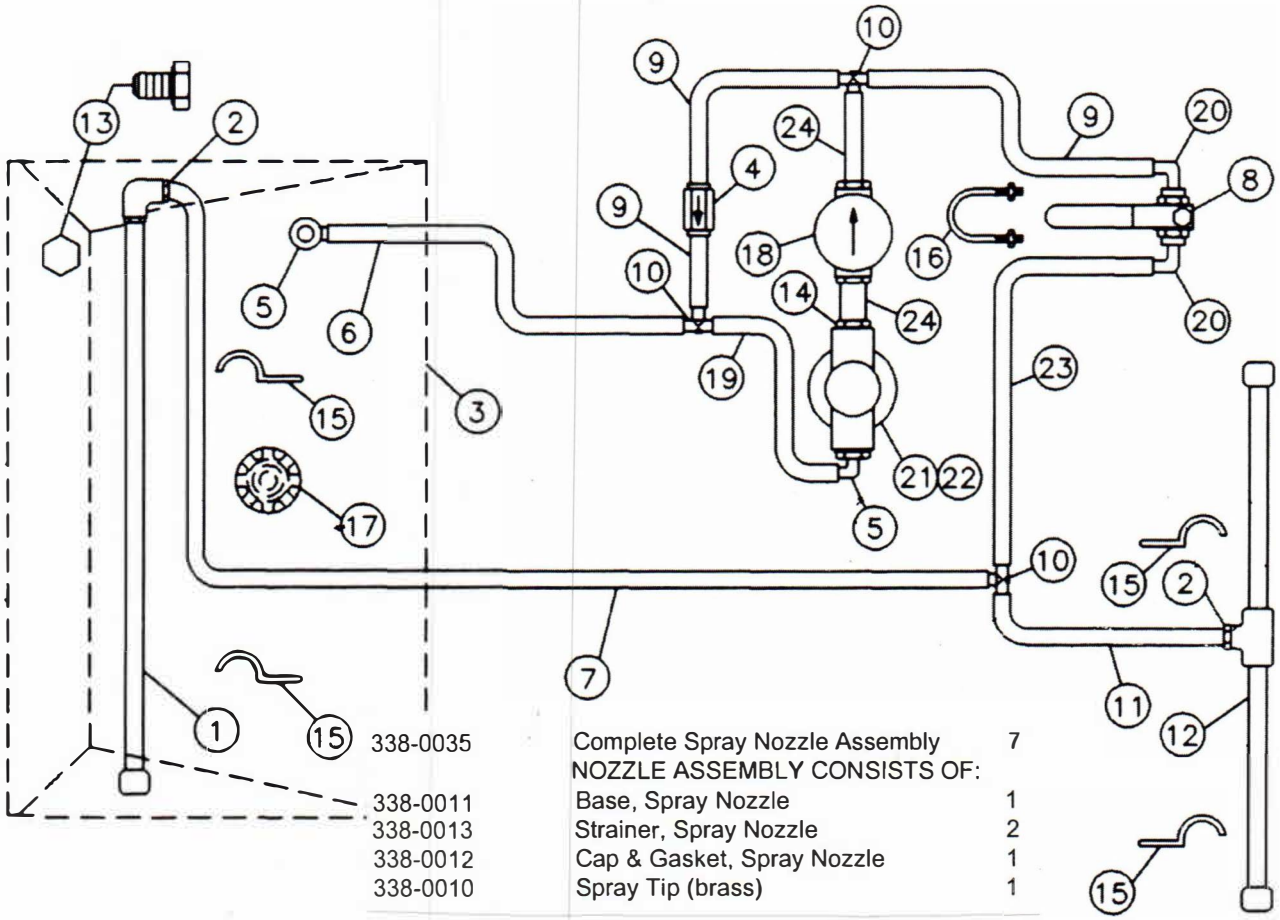
Item No.	Part No.	Description	Qty.
1	609-0076	Hex Slotted Nut	1
2	000-1043	Washer - King Pin	1
3	300-0001	Bearing Cone	6
4	300-0002	Bearing Cup	6
5	000-2121	King Pin	1
6	370-0001	Grease Fitting 1/4 - 28 NF	3
7	607-0012	Lock Nut 1" - 8 NC	1
8	000-1325	Yoke	1
9	000-1753	Front Axle Bolt	2
10	000-1107	Washer - Front Axle	2
11	600-9000	King Pin Bolt	1
12	526-0010	1 1/2" Countersunk Ballast Fill Plug	2
13	000-1323	Front Drum Half	2
14	000-3057	Front Axle Bearing Spacer Set	As Required
15	000-1058	Front Axle Grease Seal Inner & Outer	4
16	000-1057	Front Axle	1
17	000-1292	King Pin Bolt Spacer	As Required
18	630-0009	Cotter Pin	1
19	615-5001	Soc. Head Set Screw	4

REAR DRUM ASSEMBLY
B105



Item No.	Part No.	Description	Qty.
1	000-2102	Rear Drum	1
2	000-2111	Rear Drive Plate	1
3	300-0003	Bearing, Rear Drum	1
4	000-2137	Flange Adapter Drive Motor (Not Shown)	1
	000-2124	Flange Adapter Drive Motor - Metric (Not Shown)	

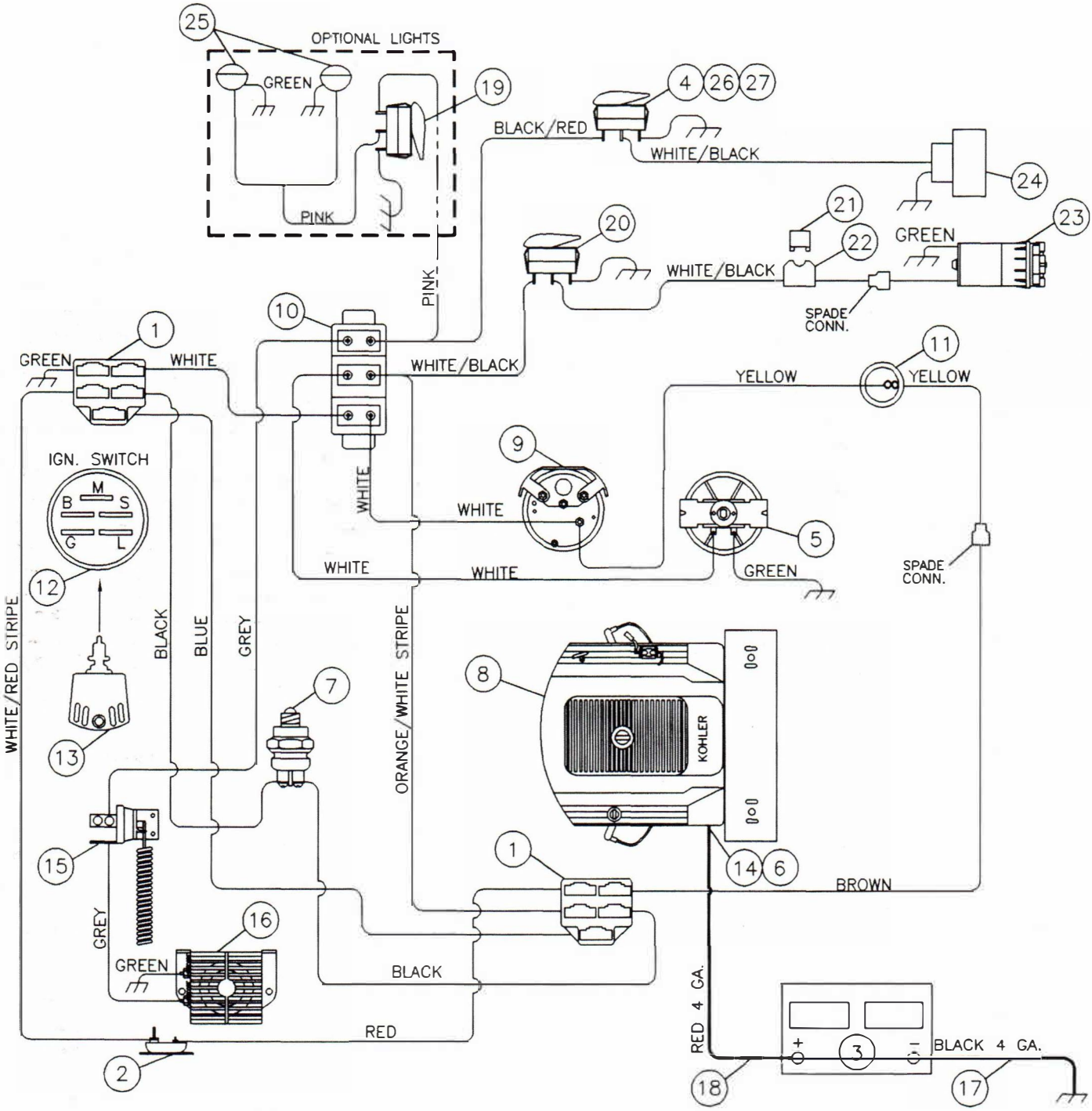
DRUM SPRAY SYSTEM - B105



338-0035	Complete Spray Nozzle Assembly	7
	NOZZLE ASSEMBLY CONSISTS OF:	
338-0011	Base, Spray Nozzle	1
338-0013	Strainer, Spray Nozzle	2
338-0012	Cap & Gasket, Spray Nozzle	1
338-0010	Spray Tip (brass)	1

Item No.	Part No.	Description	Qty.
1	000-1403	Rear Spray Bar	1
2	540-0002	Adapter, Straight, Poly	2
3	000-1402	Water Tank	1
4	338-0009	Check Valve, Inline	1
5	524-0003	Adapter, 90° Poly	2
6	424-0003-9½	Water Hose, 1/2" I.D. x 9½" Lg. (Blue)	1
7	424-0003-23	Water Hose, 1/2" I.D. x 23" Lg. (Blue)	1
8	530-0001	Ball Valve, 1/2"	1
9	424-0003-4	Water Hose, 1/2" I.D. x 4" Lg. (Blue)	3
10	543-0003	Adapter, Tee Poly	3
11	424-0003-48	Water Hose, 1/2" I.D. x 48" Lg. (Blue)	1
12	000-1123	Front Spray Bar	1
13	546-0002	Plug, 3/4" PVC	1
14	540-0008	Adapter, Straight Poly	1
15	645-0008	Clamp	4
16	645-0019	U-Bolt	1
17	350-0004	Vented Cap	1
18	338-0033	Water Pump	1
19	424-0003-3½	Water Hose, 1/2" I.D. x 3½" Lg. (Blue)	1
20	542-0002	Adapter, 90° Poly	2
21	338-0020	Strainger, System	1
22	338-0031	Screen, Replacement for 338-0020	1
23	424-0003-8½	Water Hose, 1/2" I.D. x 8½" Lg. (Blue)	1
24	424-0003-3	Water Hose, 1/2" I.D. x 3" Lg.	2
	645-0063	Hose Clamp	20

BI05 WIRING DIAGRAM W/ KOHLER TH16S SPEC. NO. PA52547

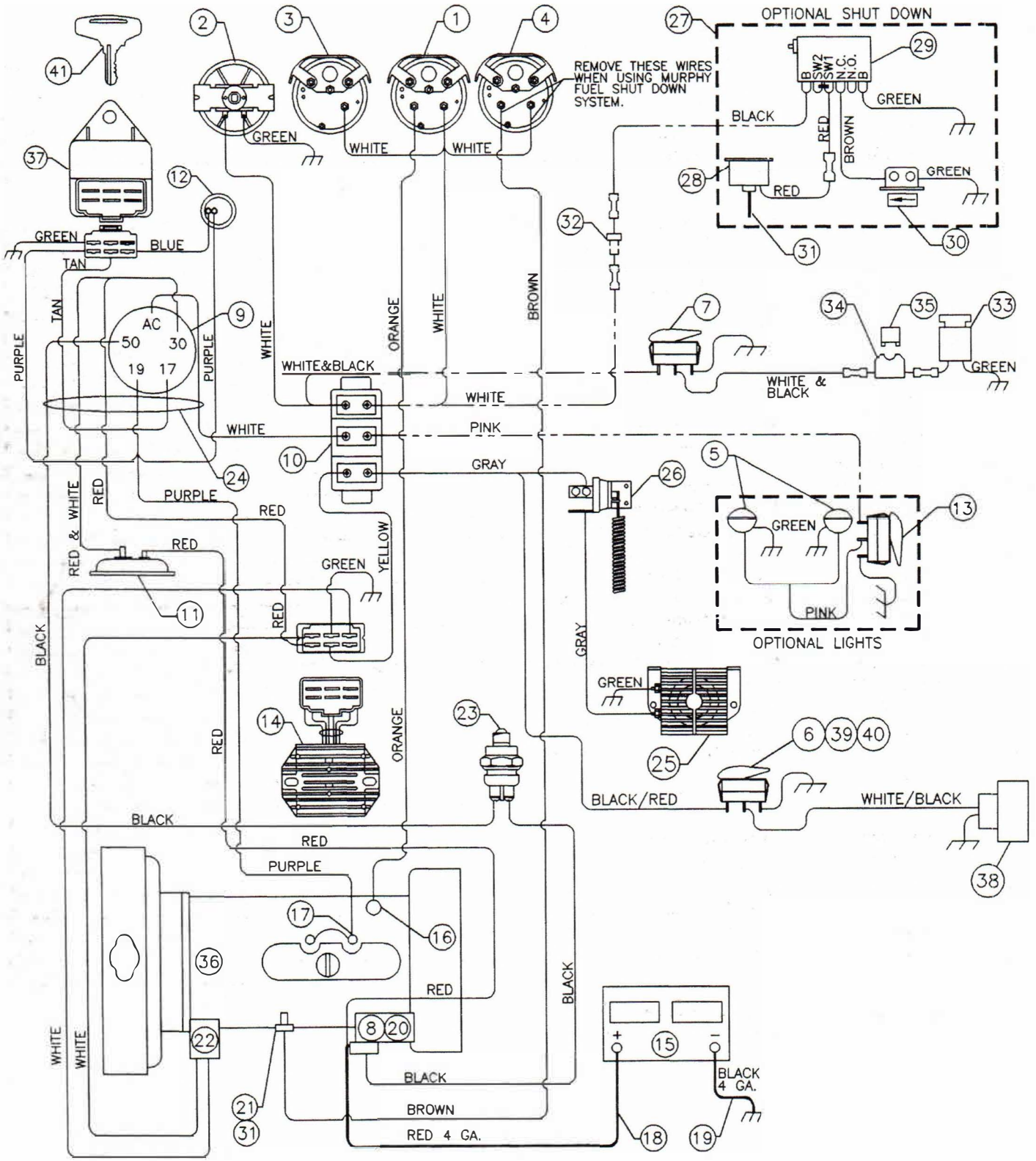


ELECTRICAL SYSTEM w/KOHLER TH16S Engine

B105

Item No.	Part No.	Description	Qty.
1	335-0074	Connector - 5 Way (1) at Keyswitch (1) at Engine	2
2	335-0063	30 Amp. Circuit Breaker - Under Dash	1
3	335-0267	Battery, 12-Volt	1
4	335-0285	Rocker Switch (Brake)(Red)	1
5	375-0001	Hourmeter	1
6	200-0276	Solenoid - Kohler TH16S	1
7	335-0013	Neutral Start Switch – at Control Lever	1
8	201-0001	Engine - Kohler TH16S	1
9	375-0013	Voltmeter	1
10	335-0021	Terminal Block - Under Dash	1
11	335-0105	Red Indicator Light (Low Oil)	1
12	335-0047	Ignition Switch - 5-Pole 12-Volt w/Keys	1
13	335-0064	Spare Ignition Keys	2
14	201-0002	Starter - Kohler TH16S	1
15	335-0094	Back Up Alarm Switch - OPTIONAL	1
16	335-0265	Back Up Alarm - OPTIONAL	1
17	335-0288-22	(NEG) Battery Cable (Black)	1
18	335-0289-21	(POS) Battery Cable (Red)	1
19	335-0286	Rocker Switch (Work Lights)	2
20	335-0286	Rocker Switch (Drum Spray System)	1
21	335-0207	10 Amp Spade Fuse - Water Pump - OPTIONAL	1
22	335-0177	Fuse Holder - OPTIONAL	1
23	338-0033	Water Pump (Drum Spray System)	1
24	110-0012	Brake Alarm	1
25	335-0172	Work Lights - OPTIONAL	2 or 4
26	335-0287	3 Switch Mounting Panel (Not Shown)	1
27	335-0284	Mounting Panel Plug (Not Shown)	As Req'd
*	000-2140	Wire Harness, Kohler Gasoline Engine (Not Shown)	1

B105 WIRING DIAGRAM W/ KUBOTA DIESEL Z482

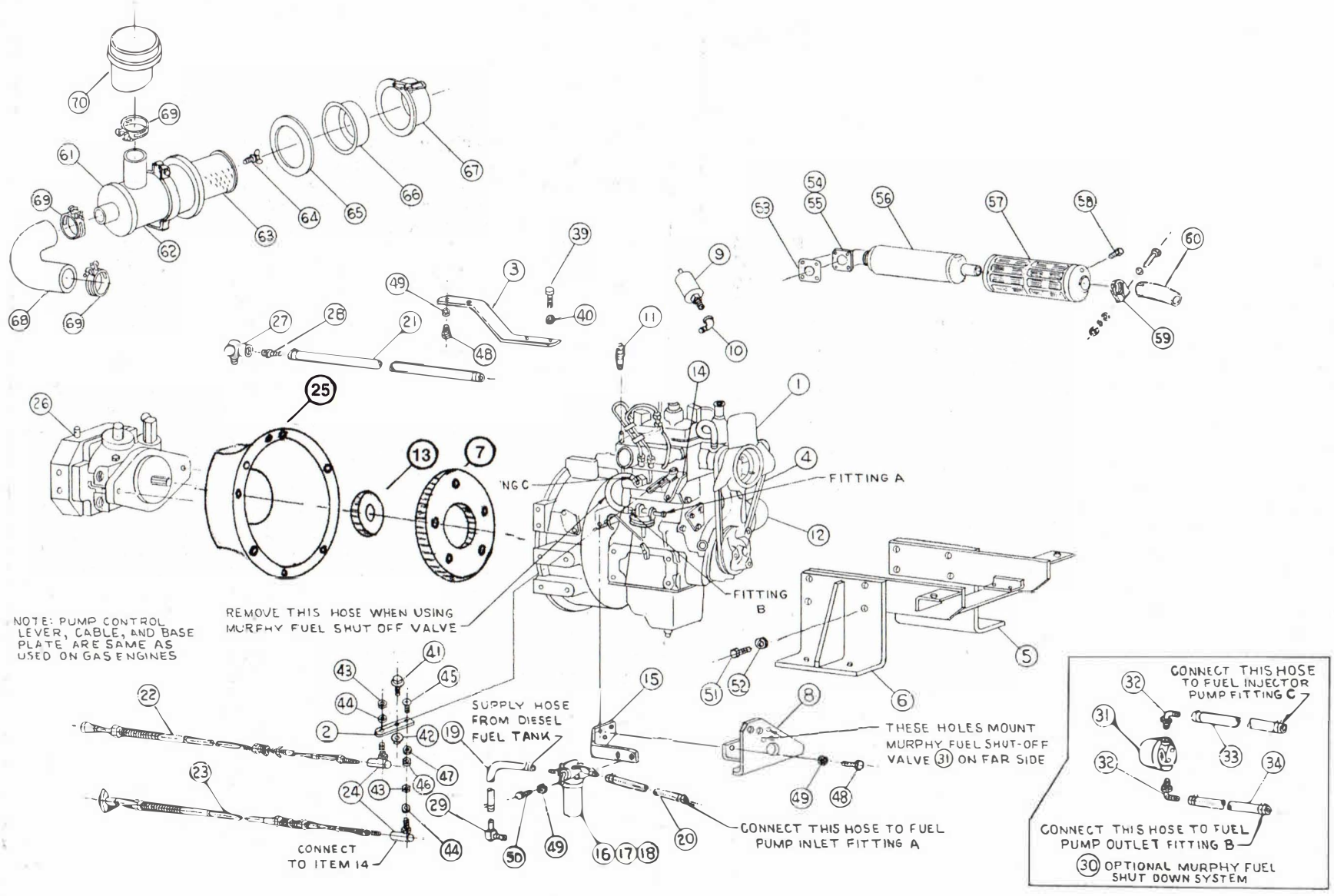


NOTE: ALL WIRE 14 GA. UNLESS OTHERWISE SPECIFIED.

ELECTRICAL SYSTEM w/Kubota Diesel Z482

Item No.	Part No.	Description	Qty.
1	375-0003	Water Temp Gauge	1
2	375-0001	Engine Hour Meter	1
3	375-0013	Voltmeter	1
4	375-0023	Oil Pressure Gauge	1
5	335-0172	Work Lights - OPTIONAL	2 or 4
6	335-0285	Rocker Switch (Brake)(Red)	1
7	335-0286	Rocker Switch (Drum Spray System)	1
8	207-0021	Starter - Kubota Z482	1
9	207-0008	Ignition Switch - Kubota	1
10	335-0021	Terminal Board	1
11	335-0063	30 Amp Circuit Breaker	1
12	207-0030	Glow Plug Indicator Light (Kubota)	1
13	335-0286	Rocker Switch (Lights) - OPTIONAL	1
14	207-0018	Regulator (Kubota)	1
15	335-0267	Battery, 12-volt	1
16	375-0004	Water Temp Sendor	1
17	207-0034	Glow Plug	1
18	335-0289-38	(POS) Battery Cable (Red)	1
19	335-0288-28	(NEG) Battery Cable (Black)	1
20	207-0019	Solenoid, Engine (Kubota)	1
21	375-0024	Oil Pressure Sendor	1
22	207-0012	Dyno Alternator (Kubota)	1
23	335-0013	Neutral Start Switch	1
24	000-KD028	Beuthling Wiring Harness (Diesel Engine Only)	1
25	335-0265	Back Up Alarm	1
26	335-0094	Switch, Back Up Alarm	1
27	335-0100	Murphy Fuel Shut Down System Consisting of Items 28, 29, 30, 31, 32 - OPTIONAL	1
28	375-0015	Murphy Oil Pressure Gauge Replaces Item 4 - OPTIONAL	1
29	375-0016	Murphy Magnetic Switch - OPTIONAL	1
30	375-0017	Murphy Fuel Shut-Off Valve - OPTIONAL	1
31	375-0018	Murphy Oil Line Kit Replaces Item 21 - OPTIONAL	1
32	335-0239	14 Amp Fuse - OPTIONAL	1
33	338-0033	Water Pump (Drum Spray System)	1
34	335-0174	Fuse Holder - OPTIONAL	1
35	335-0207	10 Amp Fuse - OPTIONAL	1
36	205-0161	Kubota Diesel Engine Model Z482	1
37	207-0028	Lamp Timer For Glow Plugs (Kubota)	1
38	335-0121	Brake Alarm	1
39	335-0287	3 Switch Mtg. Panel (Not Shown)	1
40	335-0284	Mtg. Panel Plug (Not Shown)	As Req'd
41	335-0133	Key - Ignition (Set of 2) (Kubota)	1
	375-0009	Fuel Gauge - Optional	
	375-0022	Fuel Sender - Optional	

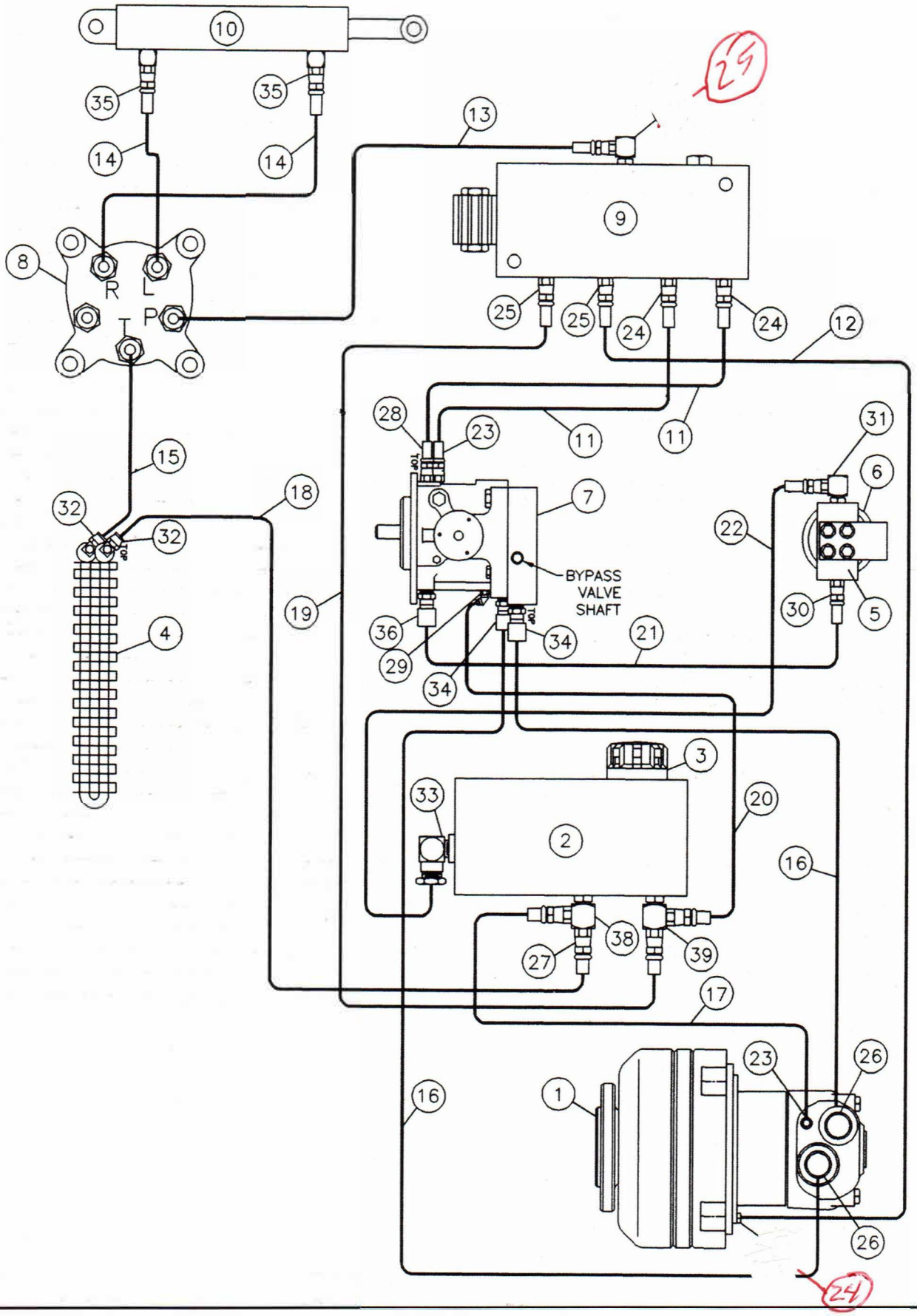
KUBOTA Z482


NOTE: PUMP CONTROL LEVER, CABLE, AND BASE PLATE ARE SAME AS USED ON GAS ENGINES
REMOVE THIS HOSE WHEN USING MURPHY FUEL SHUT OFF VALVE
FITTING A
FITTING B
SUPPLY HOSE FROM DIESEL FUEL TANK
THESE HOLES MOUNT MURPHY FUEL SHUT-OFF VALVE (31) ON FAR SIDE
CONNECT THIS HOSE TO FUEL PUMP INLET FITTING A
CONNECT TO ITEM 14
CONNECT THIS HOSE TO FUEL INJECTOR PUMP FITTING C
CONNECT THIS HOSE TO FUEL PUMP OUTLET FITTING B
(30) OPTIONAL MURPHY FUEL SHUT DOWN SYSTEM

KUBOTA Z482 DIESEL ENGINE COMPONENTS

Item No.	Part No.	Description	Qty.
1	205-0187	Fan Blade	1
2	000-KD500	Stop Lever Extension	1
3	000-KD003	Air Filter Bracket	1
4	235-0011	Fan Belt	1
5	000-KD026	Engine Bracket - Left Hand	1
6	000-KD025	Engine Bracket - Right Hand	1
7	230-0036	Nylon Flange	1
8	000-KD015	Bracket For Throttle And Stop Cable	1
9	375-0006	Oil Pressure Sender	1
10	502-0041	90° Street Elbow 1/8 N.P.T.	1
11	375-0010	Water Temperature Sender	1
12	205-0010	Oil Filter	1
13	230-0037	Splined Hub	1
14	205-0006	Engine Stop Lever	1
15	000-KD009	Fuel Filter Bracket	1
16	205-0004	Fuel Filter Cup	1
17	205-0046	Fuel Filter Cup O - Ring	1
18	205-0011	Fuel Filter Element	1
19	432-0001-27	5/16" Fuel Line Hose x 27" Lg. (From Tank)	1
20	432-0001-14	5/16" Fuel Line Hose x 14" Lg. (To Fuel Pump Inlet)	1
21	420-0001-25	3/16" Fuel Line Hose x 25" Lg. (Return)	1
22	315-0013	Engine Shut Off Cable	1
23	315-0014	Throttle Cable	1
24	645-0026	Ball Joint	2
25	230-0042	Hydraulic Pump Mounting Plate Housing	1
26	100-0030	Propel Pump. SEE HYDRAULIC DIAGRAM	1
27	502-0014	90° Adapter 1/4" NPT Male x 1/4" NPT Female	1
28	500-0061	Straight Adapter 1/4" NPT x 3/16" Barb	1
29	502-0021	90° Adapter 1/4" NPT x 5/16 Barb	1
30	335-0100	Murphy Fuel Shut Down System Consisting of Items 31,32, 33, 34 - OPTIONAL	1
31	375-0017	Murphy Fuel Shut-Off Valve - OPTIONAL	1
32	502-0021	90° Adapter 1/4" NPT x 5/16 Barb - OPTIONAL	2
33	432-0001-4	5/16" Fuel Line Hose x 4" Lg. - OPTIONAL	1
34	432-0001-10	5/16" Fuel Line Hose x 10" Lg. - OPTIONAL	1

Item No.	Part No.	Description	Qty.
41	600-1000	1/4 N.C. Serrated Flange H.C.S.	1
42	605-0027	1/4 N.C. Serrated Flange Hex. Nut	1
43	605-0015	1/4 N.F. Hex. Nut	2
44	625-0003	1/4 Lock Washer	2
45	615-8002	#10 N.C. x 5/8 Round P.H.C.S.	1
46	605-0012	#10 N.C. Hex. Nut	1
47	625-0019	#10 Lock Washer	1
48	610-1002	8mm x 1.25 x 20mm H.H.C.S.	4
49	610-1017	8mm Lock Washer	6
50	610-1025	8mm x 1.25 x 65mm H.H.C.S.	2
51	610-1001	10mm x 1.25 x 35mm H.H.C.S.	8
52	610-1009	10mm Lock Washer	8
53	205-0065	Muffler Gasket	1
54	205-0066	Muffler Flange Cover L.H. NOT SHOWN	1
55	205-0067	Muffler Flange Cover R.H. NOT SHOWN	1
56	205-0043	Muffler Only	1
57	205-0068	Muffler Cover	1
58	205-0069	Bolt	1
59	397-0011	Clamp	1
60	205-0070	Muffler Pipe	1
61	205-0071	Air Cleaner Assy.	1
62	205-0072	Air Cleaner Body	1
63	205-0012	Air Cleaner Element	1
64	205-0073	Wing Bolt	1
65	205-0074	Air Cleaner Cover Gasket	1
66	205-0075	Cover - Inner	1
67	205-0022	Air Cleaner Cover	1
68	205-0228	Hose Elbow	4
69	645-0029	Hose Clamp	3
70	205-0077	Inlet Cap, Air Cleaner	1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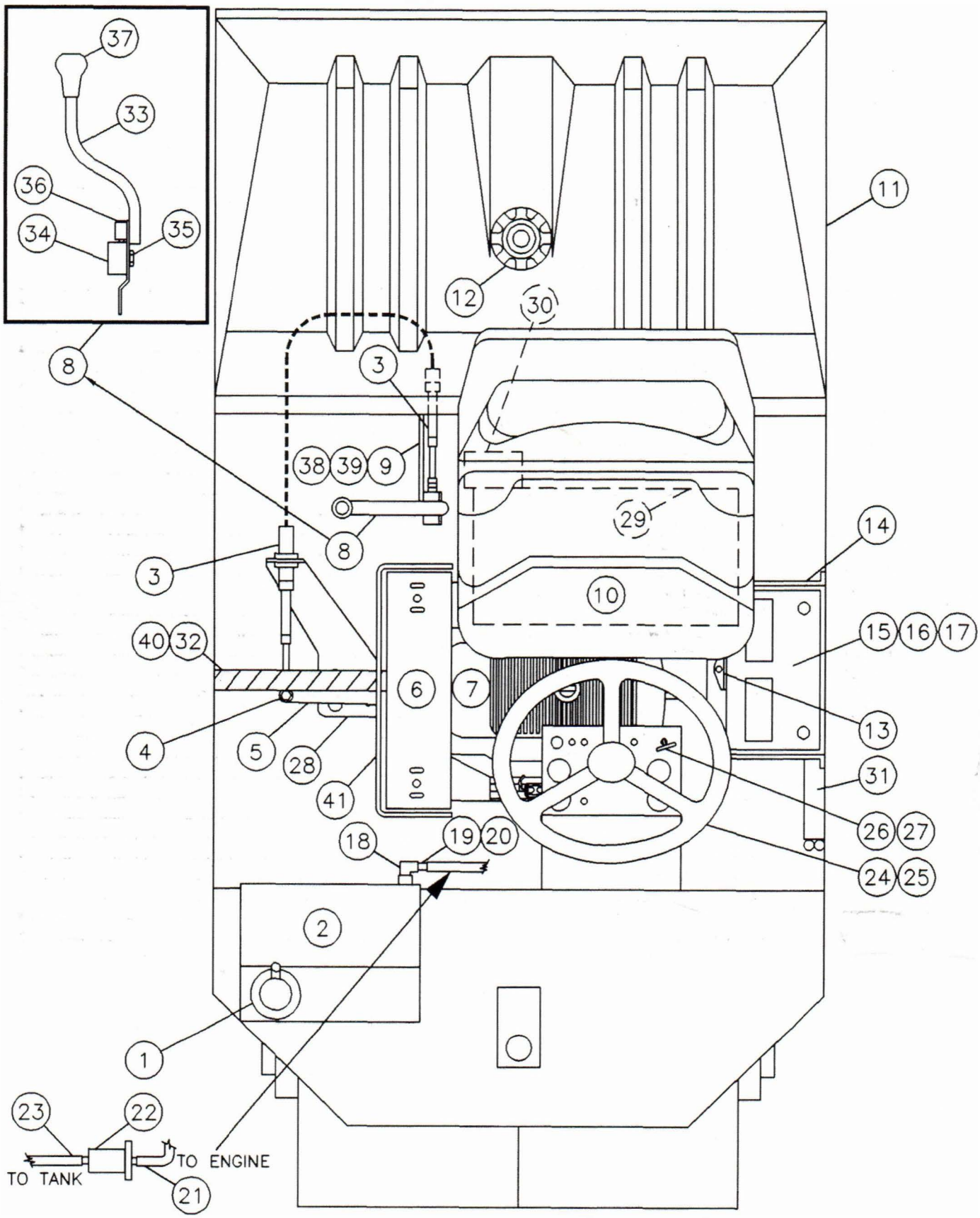
HYDRAULIC SYSTEM
B105

Item No.	Part No.	Description	Qty.
1	105-0031	Drive Motor w/Brake	1
2	000-1362	Hydraulic Oil Tank	1
3	350-0002	Fill Cap w/Screen	1
4	125-0003	Heat Exchanger	1
5	130-0003	Filter Head	1
6	130-0002	Filter Element	1
7	100-0030	Pump, Propel	1
8	105-0032	Motor, Steering Orbital	1
8	330-0023	Column, Steering Orbital (Not Shown)	1
9	110-0057	Valve Block	1
10	115-0008	Cylinder, Steering	1
11	403-0059	Hose Assembly, 3/8" I.D. x 32" Lg.	2
12	403-0060	Hose Assembly, 3/8" I.D. x 80" Lg.	1
13	403-0061	Hose Assembly, 3/8" I.D. x 20" Lg.	1
14	403-0062	Hose Assembly, 3/8" I.D. x 24" Lg.	2
15	404-0063	Hose Assembly, 3/8" I.D. x 35" Lg.	1
16	404-0077	Hose Assembly, 1/2" I.D. x ~~28~~ Lg. 32" Lg 4-21-05	2
17	423-0001-34	Hose Assembly, 3/8" I.D. x 34" Lg.	1
18	423-0001-48	Hose Assembly, 3/8" I.D. x 48" Lg.	1
19	423-0001-66	Hose Assembly, 3/8" I.D. x 66" Lg.	1
20	424-0001-15	Hose Assembly, 1/2" I.D. x 15" Lg.	1
21	426-0001-13	Hose Assembly, 3/4" I.D. x 13" Lg.	1,
22	426-0001-34	Hose Assembly 3/4" I.D. x 34" Lg.	1
23	500-0003	Adapter, Straight	2
24	500-0046	Adapter, Straight	~~2~~ 3
25	500-0068	Adapter, Straight	3
26	500-0075	Adapter, Straight	2
27	500-0081	Adapter, Straight	1
28	500-0082	Adapter, Straight	1
29	501-0001	Adapter, 45°	1
30	501-0008	Adapter, 45°	1
31	502-0008	Adapter, 90°	1
32	502-0013	Adapter, 90°	2
33	502-0007	Adapter, 90°	1
34	502-0010	Adapter, 90°	2
35	502-0011	Adapter, 90°	2
36	502-0054	Adapter, 90°	1
37	502-0034	Adapter, 90°	1
38	~~502-0054~~ 503-0003	Adapter, ~~90°~~ TEE	1
39	503-0009	Adapter, Tee	1
			1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TO ENGINE
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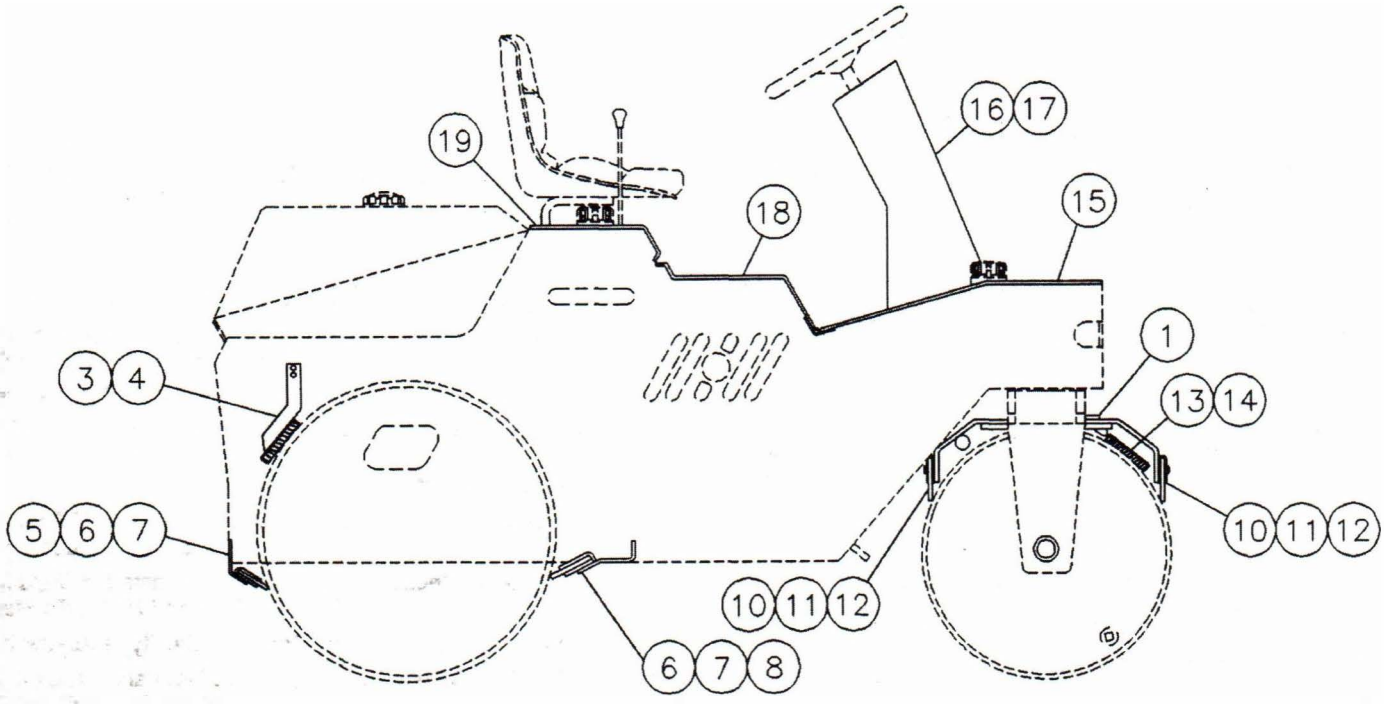
MISCELLANEOUS COMPONENTS
TH16S

Item No.	Part No.	Description	Qty.
1	350-0002	Fill Cap Complete, Fuel	1
2	000-1358	Fuel Tank	1
3	315-0010	Control Cable, Pump	1
4	645-0022	Ball Joint	2
5	000-3020	Control Lever, on Pump	1
6	200-0269	Muffler - Kohler TH 16S	1
7	201-0001	Engine - Kohler TH16S w/Muffler & Guard	1
7	205-0161	Engine - NOT SHOWN - Kubota Diesel Z482	1
8	000-1441	Control Lever, Forward & Reverse Complete Assembly	1
9	000-2010	Control Cable Bracket, Upper	1
10	395-0001	Seat	1
11	000-1402	Water Tank, Poly	1
12	350-0020	Water Cap w/Chain	1
14	000-1405	Battery Tray	1
15	335-0267	Battery 12 Volt	1
16	335-0288-22	Battery Cable - Negative - NOT SHOWN	1
17	335-0289-21	Battery Cable - Positive - NOT SHOWN - Kohler TH16S	1
18	502-0014	90° Adapter 1/4 - 18 Male x 1.4 - 18 Female NPT	1
19	645-0038	Fuel Hose Clamp	4
20	500-0009	Barbed Insert 1/4 NPT Male x 1/4 Barb	1
21	420-0001-3	Fuel Line 1/4" x 3" Lg. (Filter to Engine) on Kohler TH16S Only	1
22	200-0027	Fuel Filter - Kohler TH16S	1
23	420-0001	Fuel Line 1/4" x 39" Lg. - on Engine Kohler TH16S	1
24	330-0026 0024	Steering Wheel	1
25	330-0025	Steering Wheel Cap	1
26	315-0019	Throttle Cable w/Tee Handle	1
27	315-0001	Choke Cable	1
28	000-3021	Pump Control Base Plate	1
29	000-1240	Seat Base	1
30	335-0265	Back Up Alarm - OPTIONAL	1
31	125-0003	Heat Exchanger - Hydraulic	1
32	000-1498	Exhaust Pipe - Kohler TH16S Only	1
33	000-1437	Control Lever Only	1
34	000-1438	Mount - Control Lever	1
35	000-1440	Bolt - Adjusting	1
36	310-0005	Plunger - Netural Detent	1
37	350-0031	Knob - Soft Plastic	1
38	335-0094	Back Up Alarm Switch - OPTIONAL	1
39	000-2138	Control Lever Stop Angle	1
40	397-0016-35	Heat Wrap (for Exhaust Pipe)	1
41	200-0270	Muffler Guard (Kohler TH16S)	1

COVERS, RUBBER SCRAPERS AND COCOA MATS



Item No.	Part No.	Description	Qty.
1	000-1416	Front Cocoa Mat Pivot Bracket	2
3	000-1293	Cocoa Mat Pan - Rear	1
4	355-0005	Cocoa Mat Rear	1
5	000-1413	Bracket - Rear Drum Scraper	2
6	000-1410	Back Up Bar - Rear Rubber Scraper	4
7	000-1411	Rear Rubber Scraper	2
8	000-1412	Bracket - Forward Rear Scraper	2
10	000-1268	Back Up Bar - Front Rubber Scraper	4
11	000-1269	Front Rubber Scraper	2
12	000-1407	Front Scraper Arm	4
13	000-1419	Front Cocoa Mat Pan	1
14	355-0001	Cocoa Mat Front	1
15	000-2141	Front Floor Cover	1
16	000-2114	Dash Panel - NOT SHOWN	1
17	000-2136	Steering Column Cover	1
18	000-1367	Center Floor Cover	1
19	000-2110	Rear Floor Cover	1
*	380-0099	Complete Set of Decals	1

SPECIFICATIONS

WEIGHTS

Shipping Weight..... 2250 lbs.
Operating Weight (Full Ballast + Operator)..... 3000 lbs.

DIMENSIONS

Overall Length..... 77 In.
Overall Height ..... 62 in.
Overall Width..... 40 in.
Wheelbase ..... 52.75 in.
Curb Clearance ..... 9.50 in.
Wall Clearance ..... .875 in.

CAPACITIES

Fuel (Kohler) ..... 3 gal.
Hydraulic Fluid .....10 qt.
Engine Oil (Kohler) .....1.6 pts.
Water Tank .....34 gal.

DRUMS

FRONT:

Overall Width..... 30 in.
Diameter ..... 20 in.
Sheil Thickness ..... .437 in.

REAR:

Overall Width..... 37 in.
Diameter ..... 24 in.
Shell Thickness ..... .437 in.

STEERING

Type ..... Hydraulic, cylinder-front drum
Turning Radius (inside) .....56 in.
Oscillation .....24˚ Total

DRIVE

Drive System ..... Hydrostatic, *Internal Direct Drive,* Rear Drum, Single Lever, Infinitely Variable Controls
Travel Speed ..... 0-6 MPH
Engine ..... Kohler TRiAD OHC V-Twin Cylinder, Air Cooled, gasoline, Electric Start, 12 Volt Battery, 16 HP @ 3600 RPM

BRAKES

Service ..... Hydrostatic drive provides dynamic braking
Secondary/Parking.....Failsafe, Spring applied Hydraulically released, manual switch on console

DRUM SPRAY SYSTEM

Type .....Pressurized with water pump & switch
Tank ..... Polyethylene plastic, 3" fill neck, cap w/safety chain rear, 34 gal. capacity
Drum Scrapers ..... Four adjustable, rubber
Drum Cocoa Mats ..... One each drum, pivoting

STANDARD EQUIPMENT

- Instrumentation .....Hourmeter, Voltmeter, & Low Engine Oil Indicator Light
- Vandal Protection ..... Lockable Fill Caps for Fuel and Hydraulic Fluid
- Seat..... High Back, Bucket Type Adjustable
- Safety Devices..... Neutral Start Switch, Failsafe Hydraulic Brake

OPTIONAL EQUIPMENT

- *Kubota Diesel Engine*
- *Vanguard Gasoline Engine*
- *Honda Gasoline Engine*
- *Back-Up Alarm*
- *Vandal Protection Package*
- *Work Lights*
- *Arm Rests*
- *Fuel Guage*
- *Special Paint (Any Color)*
- *ROPS (Rollover Protection Structure) w/Seat Belt*

NEW BEUTHLING

ONE YEAR LIMITED WARRANTY

We warrant to the original consumer that each new unit sold by us will be free from manufacturing defects in materials or workmanship in normal service for a period of one year from date of shipment, provided the unit is operated and maintained in accordance with NEW BEUTHLING'S instruction and manuals.

Defective parts are to be returned to the factory, freight prepaid, and will be replaced or repaired whichever NEW BEUTHLING elects. Some compo-nents, i.e., engine, hydraulic pumps and motors etc. are subject to manufacturer's warranty. Most of these warranties meet or exceed the NEW BEUTHLING WARRANTY.

For the first 12 months, NEW BEUTHLING will cover all parts and labor. After the first six months, rental units and the following specific components are not covered under the NEW BEUTHLING WARRANTY: batteries, electrical components, throt-tle, choke, & control cables.

This warranty is not applicable to normal maintenance service (such as engine tune-ups) or normal replacement of service or wear items, such as filters, lubricating oil, grease and rubber scrapers.

Allowance for repairs or alterations will not be allowed unless they are authorized in writing by NEW BEUTHLING.

Liability for damages or delay caused by defective parts will not be assumed by NEW BEUTHLING

Credit will not be allowed if in the opinion of NEW BEUTHLING a part failed through neglect of maintenance, misuse or as the result of an accident. The machine may not be altered or modified in any manner which affects the mechanical operation of the machine as designed by the manufacturer.

NEW BEUTHLING makes every effort to continually improve its products, and it does so without incurring any obligation to make such changes on units previously shipped. NEW BEUTHLING also reserves the right to discontinue the production of any product at any time.

To obtain warranty service, purchaser must bring the unit to an authorized NEW BEUTHLING dealer.

New Beuthling
465 Griffin Blvd.
Amery, Wisconsin 54001
715-263-2300

MACHINE IDENTIFICATION INFORMATION

BEUTHLING SERIAL NUMBER: _____

ENGINE MAKE & MODEL: _____

ENGINE SPEC NUMBER: _____

ENGINE SERIAL NUMBER: _____

PURCHASE DATE: _____

DEALER: _____

MACHINE SERVICE INFORMATION

NOTES

NOTES

BEUTHLING MANUFACTURING COMPANY, INC.
100 DIGITAL DRIVE, CLEAR LAKE, WI 54005
(715) 263-2300 Fax: (715) 263-2303