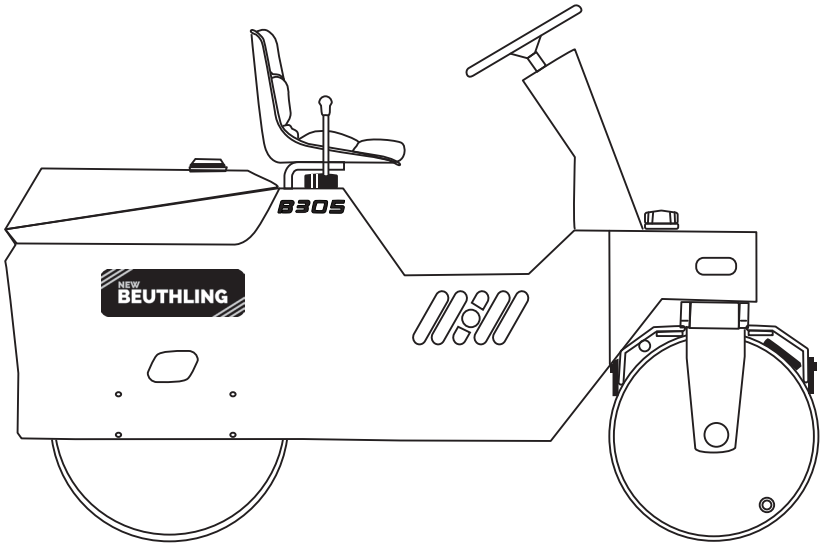
NEW BEUTHLING

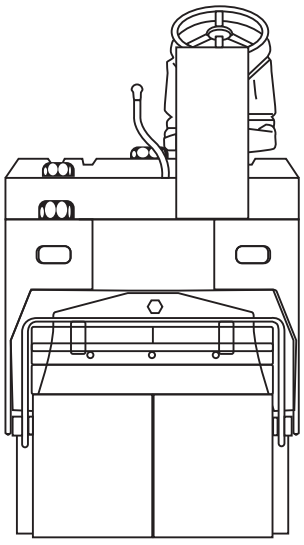
OWNER'S & PARTS MANUAL

B305 VIBRATORY

RIDE-ON VIBRATORY COMPACTOR - 2 1/4 TON
GASOLINE & DIESEL ENGINES

SERIAL NUMBERS 305-NB24-0001 & UP





WARNING! READ THIS MANUAL AND AEM AEM ROLLER COMPACTOR SAFETY MANUAL BEFORE OPERATING OR SERVICING YOUR MODEL B305.

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NOTE:

FOR ALL INQUIRES PLEASE INDICATE:

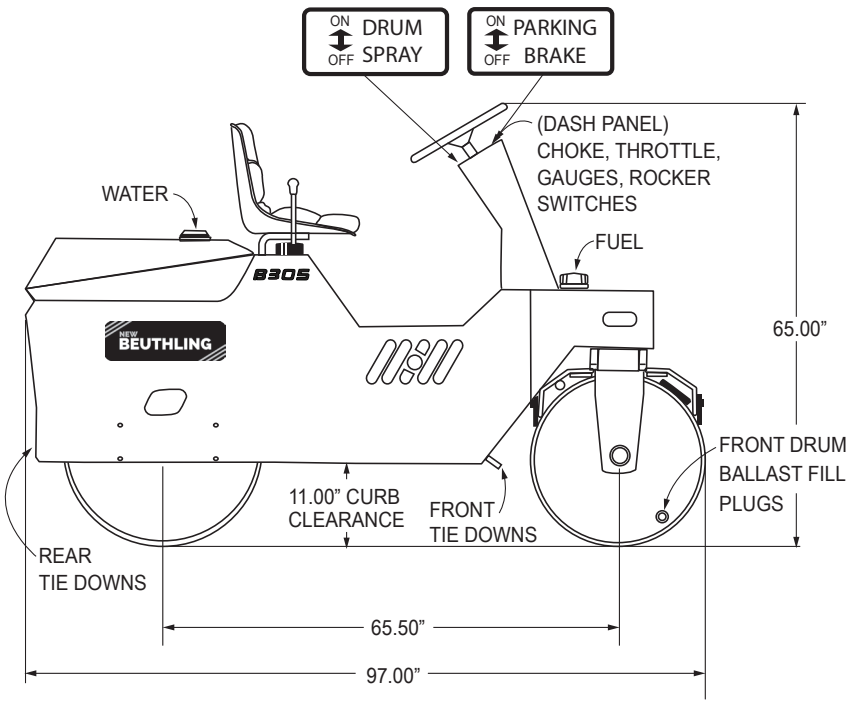
NEW BEUTHLING MODEL _____

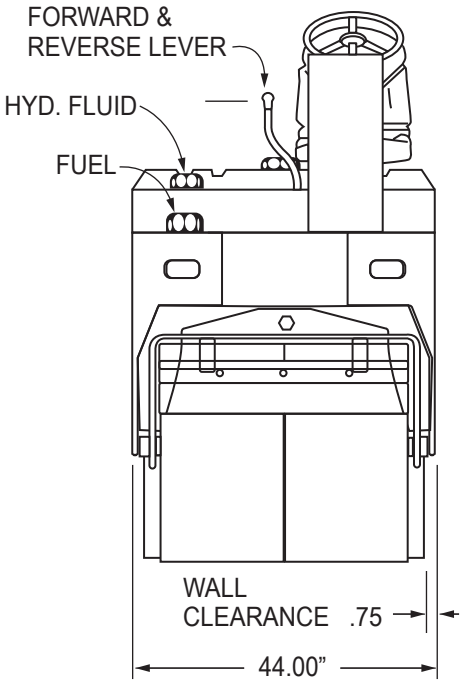
NEW BEUTHLING SERIAL NUMBER _____

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 <u>INCLINES, HILLS, RAMPS</u> OR NEAR THE <u>EDGE</u> OF A WORK SURFACE MAY BE DANGEROUS AND CAUSE THIS UNIT TO BECOME UNSTABLE OR <u>ROLLOVER</u>.

ALWAYS BE IN CONTROL OF YOUR UNIT

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

OPERATION

WARNING:

Read this manual and the AEM "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 the **up** position and **"OFF"** when rocker switch is in the **down** position.

When brake rocker switch is **"ON"**, red indicator light is **ON** and **ALARM** buzzer is **sounding** (if equipped).

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, keep the secondary /parking brake rocker switch in the "UP" (brake applied) position. If so equipped, and not previously done, unlock the locks securing the optional floor and dash covers. Move the covers to the stowed position. On gasoline engine powered machines, put the fuel shut off valve, if so equipped, in the "RUN" position if not previously done. When starting, if so equipped, and not previously done, unlock the doors securing the floor and dash covers. Move the dash cover to the stowed position.

Continued on 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.

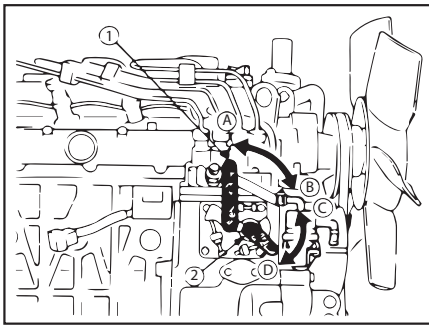
STARTING DIESEL ENGINE

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.**

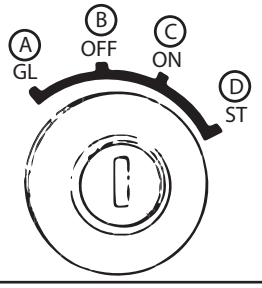
1. Move directional/speed control lever to "Neutral" position.

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



(1) Speed Control Lever
(A) "OPERATION"
(B) "IDLING"
(2) Engine Stop Lever
(C) "START POSITION"
(D) "STOP POSITION"

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



(A)"PREHEATING"
(B) "SWITCHED OFF"
(C)"OPERATION"
(D) "START"

4. 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 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 starter switch to the "PREHEATING" position.**

5. Turn the key to the "START" position and the engine should start. Release the key immediately when the engine starts.

6. Check to see that the oil pressure gauge and battery gauge 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 low or no oil pressure 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 starter switch 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.**

7. 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.**

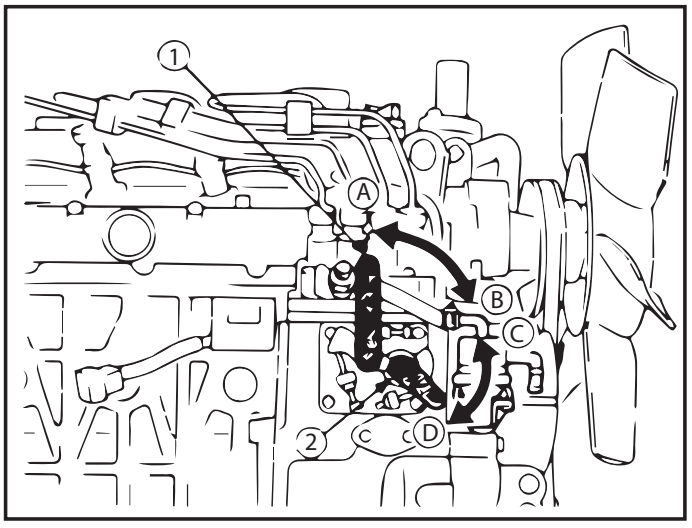
STOPPING DIESEL ENGINE

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. Turn **ignition key** counterclockwise to **off position** and remove from switch. Spring actuated brakes **will not** be applied with ignition switch on.

EMERGENCY SHUTDOWN PROCEDURE: (Diesel Engine)

1. Move directional/speed control lever to **neutral position**.
2. 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

(A) "IDLING"
(B) "OPERATION"
(C) "START"
(D) "STOP"

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.

NOTE:
If equipped with optional manual brake release kit, this machine can be moved off the work site in the event the machine is disabled with no power. Please refer to page 6 for procedure.

DRUM SPRAY SYSTEM
The pressurized drum spray system will help keep both drums clean when compacting asphalt. Fill the water tank with clean water. Located by the seat is the spray valve. Open valve, by moving the valve handle, until the desired flow rate is obtained. Put the drum 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
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 (if equipped) is located on dash. Check the engine inlet air cleaner condition and replace as needed.

CAUTION:

See the "Engine Operation and Maintenance Instruction Manual", published by the Honda Engine, 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 B305 is equipped with a 15 quart oil reservoir - when changing or adding fluid, use AW ISO 32 HYD 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 lever 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 cap screws (having grease zerks) to obtain correct end play. Re-tighten 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 cocoa mat pan 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 (2) zerk fittings found at the left, and 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 (12) to drain tank. Remove Hoses Items (8) and (18) to drain pump and valves. See Drum Spray System Diagram page 14.

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:

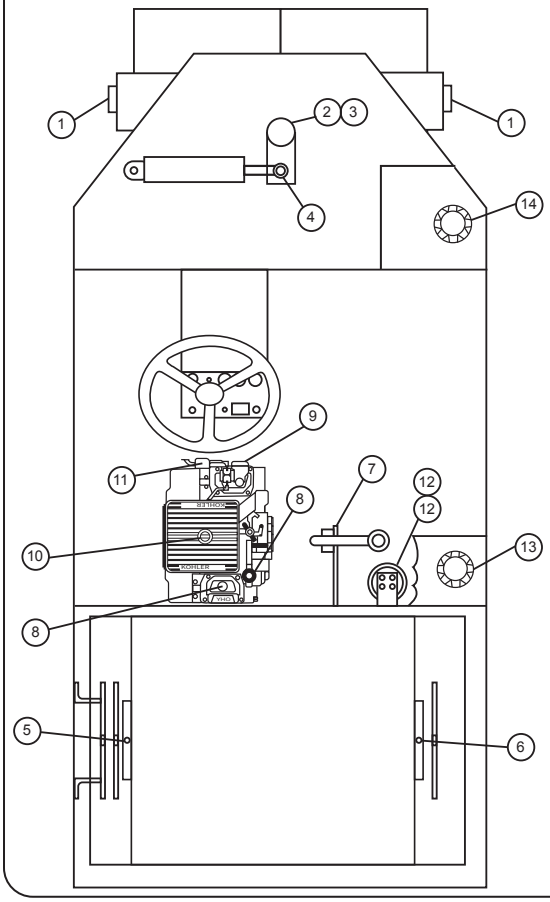
BATTERY EXPLOSION CAN OCCUR IF A BATTERY IS SHORTED. ALWAYS disconnect BOTH the positive (+) AND the negative (-) battery cables from a battery, BEFORE ANY repair procedures are done to the electrical wiring or components. DO NOT weld on machine unless battery Is disconnected and removed.

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. 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.

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 B305

Ref No.	Lubrication Point	DAILY	WEEKLY	MONTHLY	250 HOURS	Types of Lubricant	Lub. Fitting
1	Front Axle Bearings		•			EP-2 Chassis Lub.	Yes (2)
2	Front Pivot Tube		•			EP-2 Chassis Lub.	Yes
3	Oscillating King Pin		•			EP-2 Chassis Lub.	Yes
4	Steering Cylinder Rod End		•			EP-2 Chassis Lub.	Yes
5	Vibe Bearing LH			•		EP-2 Chassis Lub.	Yes
6	Vibe Bearing RH			•		EP-2 Chassis Lub.	Yes
7	Control Lever		•			EP-2 Chassis Lub.	No
8	Engine Crankcase/Dipstick	✓				See Engine Manual	No
9	Engine Oil Filter				•	See Engine Manual	No
10	Engine Air Cleaner	✓			•	See Engine Manual	No
11	Fuel Filter				•	See Engine Manual	No
12	Hydraulic Oil Filters (2)				•	Replace Filter Element	No
13	Hydraulic Oil Reservoir	✓			•	AW IOS 32	No
14	Fuel Tank	✓				5 U.S. Gal.	No

✓ Check • Lube or Change

See Owner's Manual For Further Details

FILTER CHART

Honda GX 690
Gasoline Engine

Oil Filter	200-0400
Fuel Filter	200-0402
Air Filter Element	200-0401
Hyd. Oil Filter	130-0002

FILTER CHART

Kubota D1005
Diesel Engine

Oil Filter	200-0156
Fuel Filter	205-0250
Air Filter Element	205-0252
Hyd. Oil Filter	130-0002

DECALS, OPERATION & MAINTENANCE

⚠ CAUTION ⚠

DO NOT PUSH OR PULL UNIT.
MAY CAUSE DAMAGE TO
HYDRAULIC SYSTEM.

TO START CONTROL, LEVER
MUST BE IN NEUTRAL.

⚠ OPERATION WARNING ⚠

EQUIPPED WITH TRANSMISSION BY-PASS VALVE
NORMAL OPERATION - CLOSE VALVE CW (CLOCKWISE)
FREEWHEEL - OPEN VALVE 180°CCW (COUNTER CLOCKWISE)

NORMAL OPERATION
(CLOSED)

FREEWHEEL (OPEN)

⚠CAUTION | **ROTATING PARTS**

⚠WARNING | **HOT AREA**

NO STEP

RECOMMENDED HYDRAULIC FLUIDS

- USE H.D. ISO-32 HYD. FLUID OR EQUIVILENT
- FILL TO MIDDLE OF SCREEN ONLY
- CHECK HYDRAULIC FLUID DAILY
- CHANGE FLUID & FILTER EVERY 250 HRS. (SOONER IF CONDITIONS WARRANT)

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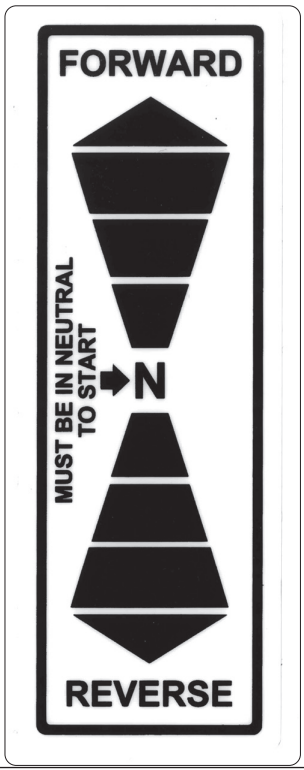

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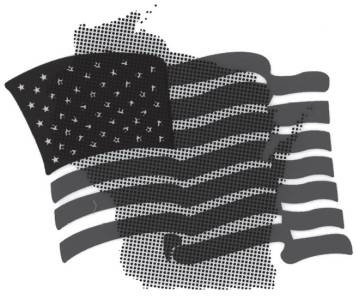

AMERY, WISCONSIN

DECALS, OPERATION & MAINTENANCE

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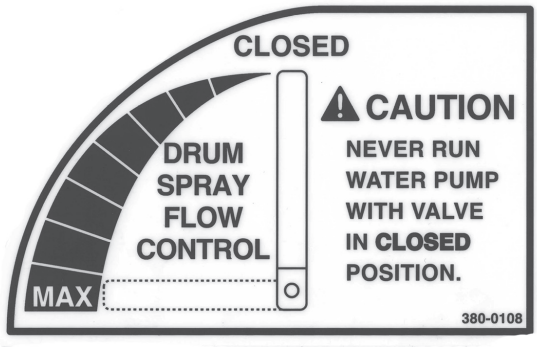

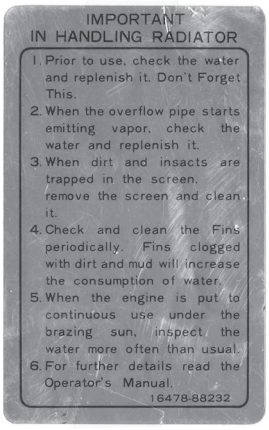

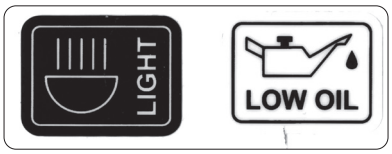

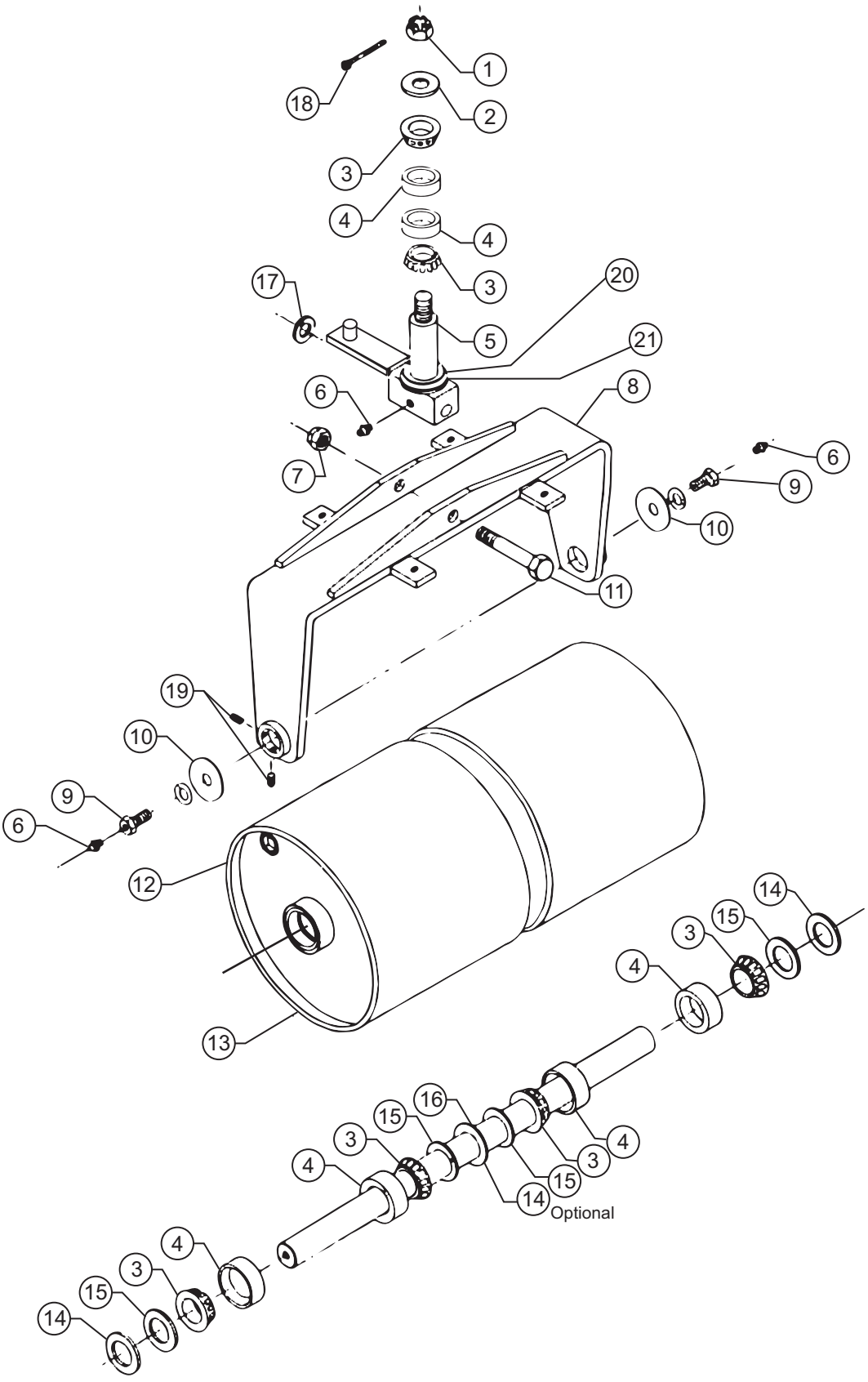
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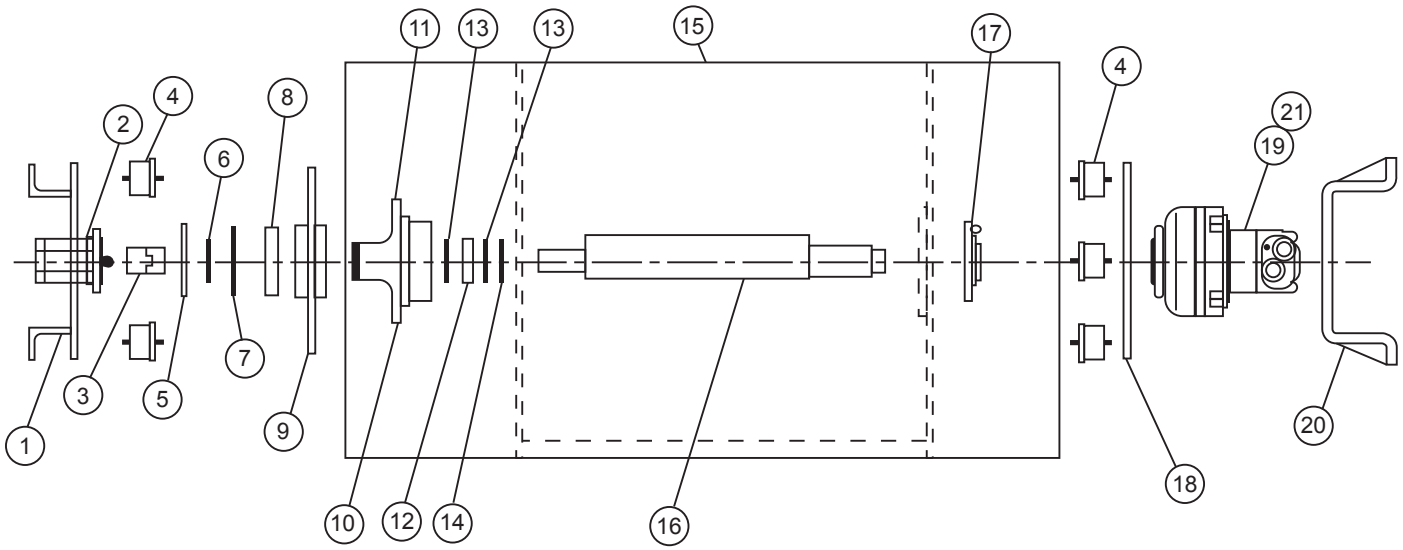
FRONT END ASSEMBLY

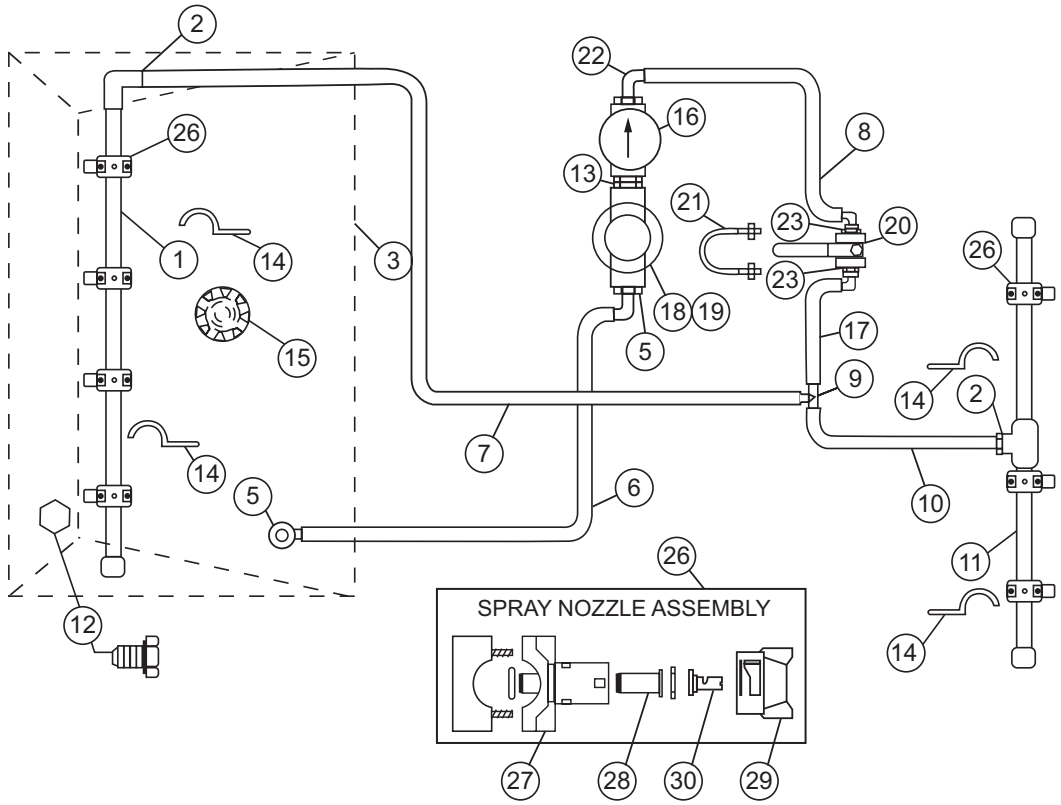
Item No.	Part No.	Description	Qty.
1	609-0076	Hex Slotted Nut	1
2	000-1043	Washer – King Pin	1
3	300-0001	Bearing Cone	6
4	300-0002	Bearing Cup	6
5	000-3178	King Pin (complete with 000-2014 and 000-2015)	1
6	370-0001	Grease Fitting1/4 - 28 NF	3
7	607-0012	Lock Nut 1” - 8 NC	1
8	000-1050	Yoke	1
9	000-1753	Front Axle Bolt w/Lock Washer & Zerk	2
10	000-1107	Washer - Front Axle	2
11	000-1222	King Pin Bolt	1
12	526-0010	1 1/2” Countersunk Ballast Fill Plug	2
13	000-1065	Front Drum Half (sold in pairs)	1
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
20	000-2014	Grease Seal – King Pin	1
21	000-2015	Washer – King Pin	1

B305 REAR DRUM ASSEMBLY II



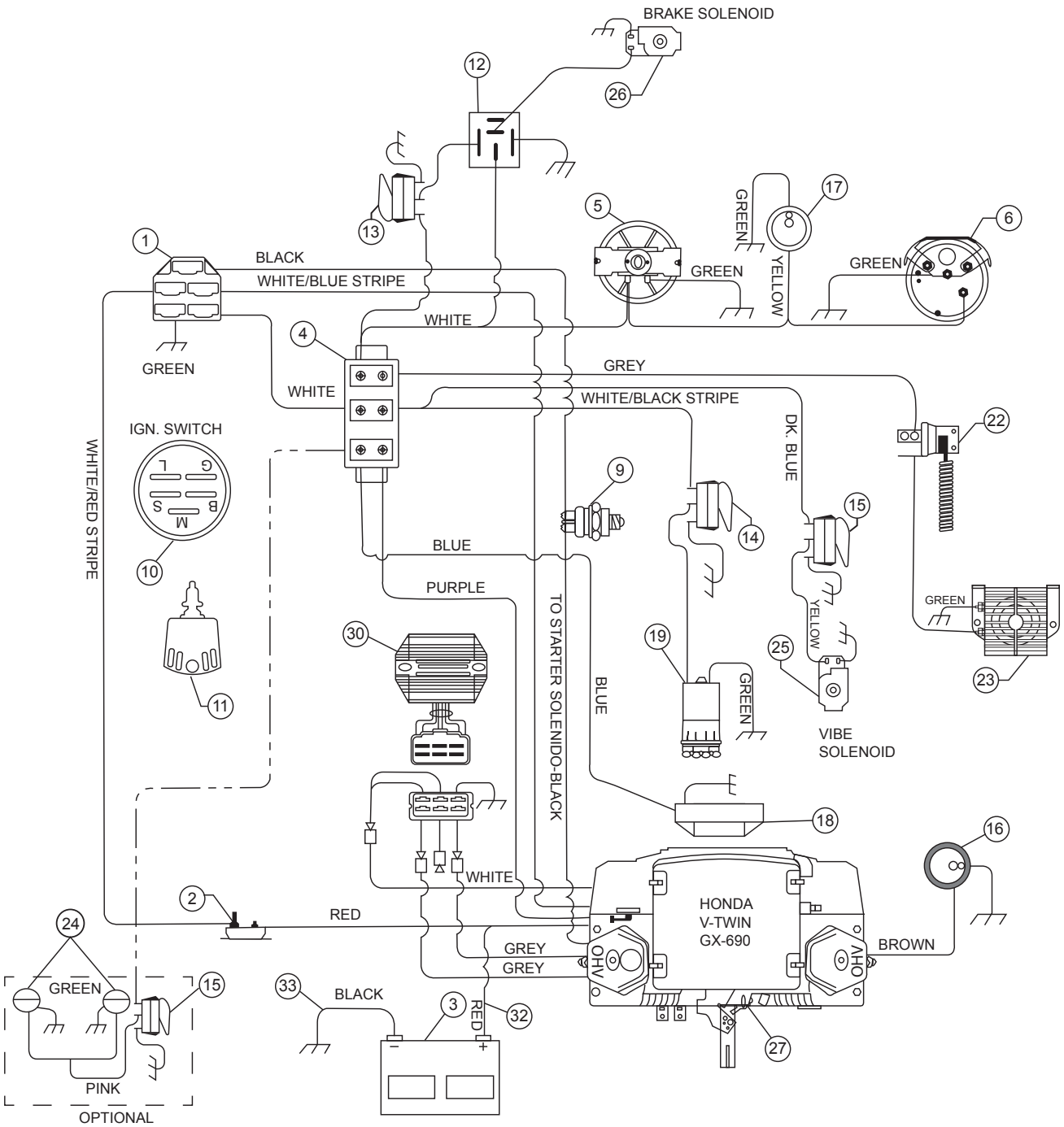
Item No.	Part No.	Description	Qty.
1	000-2534	Mounting Ring - Vibe. Side	1
2	105-0040	Vibe. Motor.	1
3	230-0057	Coupling - Complete	1
4	325-0011	Rubber Mount	9
5	000-2527	Mtg. Plate - Vibe. Motor	1
6	366-0001	Snap Ring - External	1
7	366-0002	Snap Ring - Internal	1
8	300-0031	Bearing Axle	1
9	000-2524	Bearing Housing Axle - Vibe. Side	1
10	000-2545	Bearing Housing - Vibe. Side	1
11	370-0008	Grease Fitting	1
12	300-0034	Bearing - Vibe. Shaft	1
13	365-0074	Seal - Vibe. Bearings	2
14	366-0003	Snap Ring - Internal	1
15	000-2565	Rear Drum	1
16	000-2566	Vibratory Shaft	1
17	300-0033	Bearing	1
18	000-2530	Drive Plate	1
19	105-0031	Drive Motor w/Brake (SAE Ports)	1
20	000-2531	Drive Motor Mount	1
21	365-0073	Seal Kit for 105-0031	1

DRUM SPRAY SYSTEM



Item No.	Part No.	Description	Qty.
1	000-3146	Rear Spray Bar (For Nozzles)	1
2	540-0002	Adapter, Straight Poly	2
3	000-1138	Water Tank	1
5	542-0003	Adapter, 90° Poly	2
6	424-0003-30	Water Hose, 1/2" I.D. x 30" Lg	1
7	424-0003-33	Water Hose, 1/2" I.D. x 33" Lg	1
8	424-0003-12	Water Hose, 1/2" I.D. x 12" Lg	1
9	543-0003	Adapter, Tee Poly	1
10	424-0003-72	Water Hose, 1/2" I.D. x 72" Lg	1
11	000-2146	Front Spray Bar (For Nozzles)	1
12	546-0002	Plug, 3/4" PVC	1
13	540-0004	Adapter, Straight Poly	1
14	645-0008	Clamp, Spray Bar	4
15	350-0020	Vented Cap, Water Tank w/chain	1
16	338-0041	Water Pump	1
17	424-0003-4	Water Hose, 1/2" I.D. x 4" Lg	1
18	338-0020	Strainer, Water System	1
19	338-0031	Screen, Replacement for 338-0020	1
20	530-0001	Ball Valve, 1/2" Bronze	1
21	645-0019	U-Bolt	1
22	542-0004	Adapter, 90°	1
23	542-0002	Adapter, 90°	2
26	338-0035	Complete Spray Nozzle Assembly	7
NOZZLE ASSEMBLE CONSISTS OF:			
27	338-0011	Base, Spray Nozzle	1
28	338-0013	Stainer, Spray Nozzle	2
29	338-0012	Cap & Gasket, Spray Nozzle	1
30	338-0010	Spray Tip (Brass)	1
*	645-0063	Hose Clamp (not shown)	16

ELECTRICAL SCHEMATIC - W/ HONDA GX690

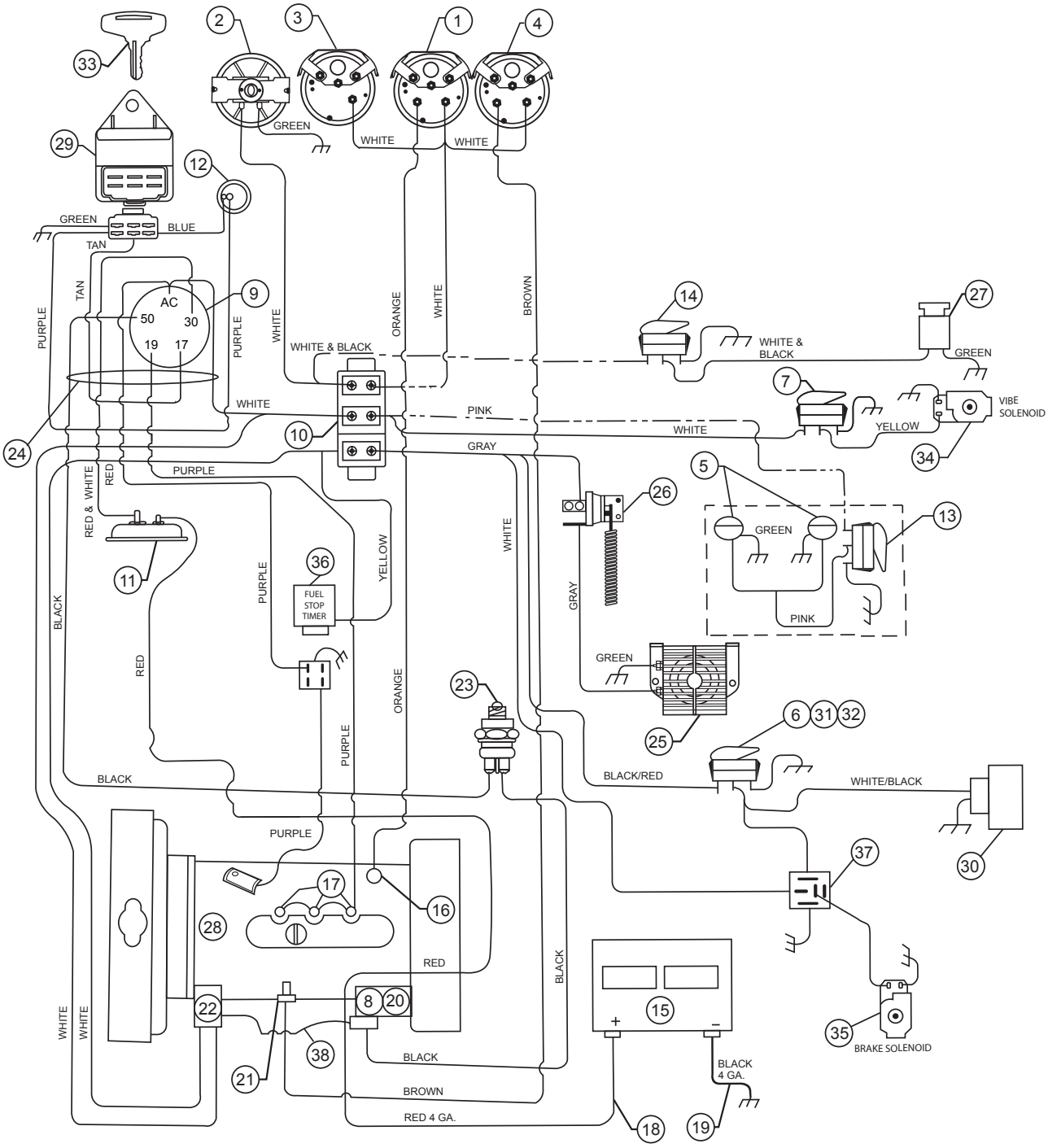


ELECTRICAL SYSTEM - W/ HONDA GX690

Item No.	Part No.	Description	Qty.
1	335-0074	Connector - 5 way (1) at Key Switch	1
2	335-0063	Circuit Breaker, 30 amp (Under Dash)	1
3	335-0267	Battery, 12 volt	1
4	335-0021	Terminal Block (Under Dash)	1
5	375-0001	Hourmeter	1
6	375-0013	Voltmeter	1
7	375-0009	Fuel Gauge (not shown)	1
8	375-0022	Fuel Sender (not shown)	1
9	335-0013	Switch, Neutral Start (at Control Lever)	1
10	335-0311	Switch, Ignition 5 pole	1
11	335-0312	Key, Ignition (set of 2)	
12	335-0291	Relay, Reverse Polarity	1
13	335-0285	Switch, Rocker (Brake)(Red)	1
14	335-0294	Switch, Rocker (Drum Spray System)(Blue)	1
15	335-0286	Switch, Rocker (Vibrator)(Work Lights)	1
16	335-0105	Light, Red Indicator (Low Oil)	1
17	335-0019	Light, Green Indicator (Run Light)	1
18	335-0307	Fan, Electric (Mounted on cooler)	1
19	338-0041	Water Pump (Drum Spray System)	1
20	335-0207	Fuse, 10amp Spade Fuse (OPTIONAL) not shown	1
21	335-0177	Fuse Holder (OPTIONAL) not shown	1
22	335-0094	Switch, Back-up Alarm	1
23	335-0323	Alarm, Back-up	1
24	335-0172	Work Lights (OPTIONAL)	2 or 4
25	110-0093	Coil, Vibe. Control System Valve	1
26	110-0085	Coil, Brake Valve	1
27	200-0389	Engine, Honda GX690	1
28	335-0287	3 Switch Mounting Panel (not shown)	1
29	335-0284	Plug-mounting Panel (not shown)	As required
30	200-0409	Regulator, Honda	1
31	200-0410	Solenoid, Start Honda (not shown)	1
32	335-0289	Positive Battery Cable	1
33	335-0288	Negative Battery Cable	1
34	000-2543	Wire Harness (Honda GX690)	1

Please Check Engine Serial & Spec Numbers
Before Ordering Parts

ELECTRICAL SCHEMATIC - KUBOTA D1005 DIESEL

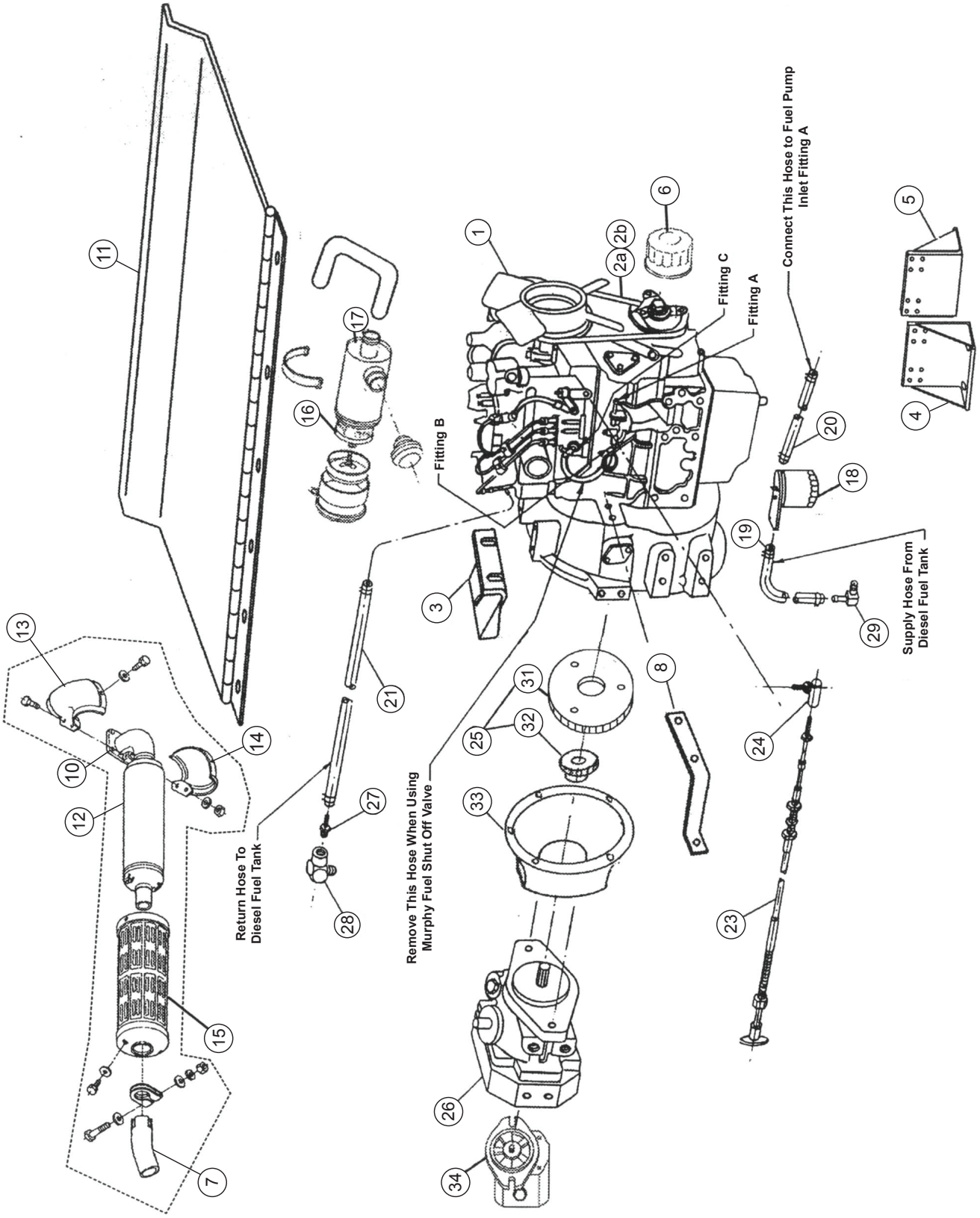


ELECTRICAL SYSTEM - w/Kubota D1005 Diesel

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
*	375-0009	Fuel Gauge (not shown)	1
*	375-0022	Fuel Sender (not shown)	1
5	335-0172	Work Lights - OPTIONAL	2 or 4
6	335-0285	Rocker Switch (Brake)(Red)	1
7	335-0286	Rocker Switch (Vibe Control System)	2
8	207-0041	Starter - Kubota D1005	1
9	207-0008	Ignition Switch - Kubota	1
10	335-0021	Terminal Block (Under Dash)	1
11	335-0063	30 amp Circuit Breaker	1
12	207-0030	Glow Plug Indicator Light (Kubota)	1
13	335-0286	Switch, Rocker (Work Lights) OPTIONAL	1
14	335-0294	Switch, Rocker (Drum Spray System) Blue)	1
15	335-0267	Battery, 12 volt	1
16	375-0004	Water Temp Sender	1
17	207-0034	Glow Plug	3
18	335-0276	(POS) Battery Cable (Red)	1
19	335-0020	(NEG) Battery Cable (Black)	1
20	207-0043	Solenoid, Engine (Kubota)	1
21	375-0024	Oil Pressure Sender	1
22	207-0042	Alternator (Kubota) Dynamo Assy	1
23	335-0013	Neutral Start Switch	1
24	000KD618	New Beuthling Wiring Harness (Diesel Engine Only) D1005	1
25	335-0323	Back Up Alarm	1
26	335-0094	Switch, Back Up Alarm	1
27	338-0041	Water Pump (Drum Spray System)	1
28	205-0344	Kubota Diesel Engine Model D1005	1
29	207-0028	Lamp Timer For Glow Plugs (Kubota)	1
30	335-0121	Brake Alarm - OPTIONAL	1
31	335-0287	3 Switch Mtg. Panel (not shown)	1
32	335-0284	Mtg. Panel Plug (not shown)	As Req'd
33	335-0133	Key - Ignition (Set of 2)(Kubota)	1
34	110-0093	Coil, Vibe Control System Valve	1
35	110-0087	Coil & Valve - Brake	1
36	207-0047	Fuel Stop Solenoid Timer	1
37	335-0291	Relay (Reverse Polarity)	1
38	335-0320	Cable, Starter to Alternator	1

Please Check Engine Serial & Spec Numbers Before Ordering Parts

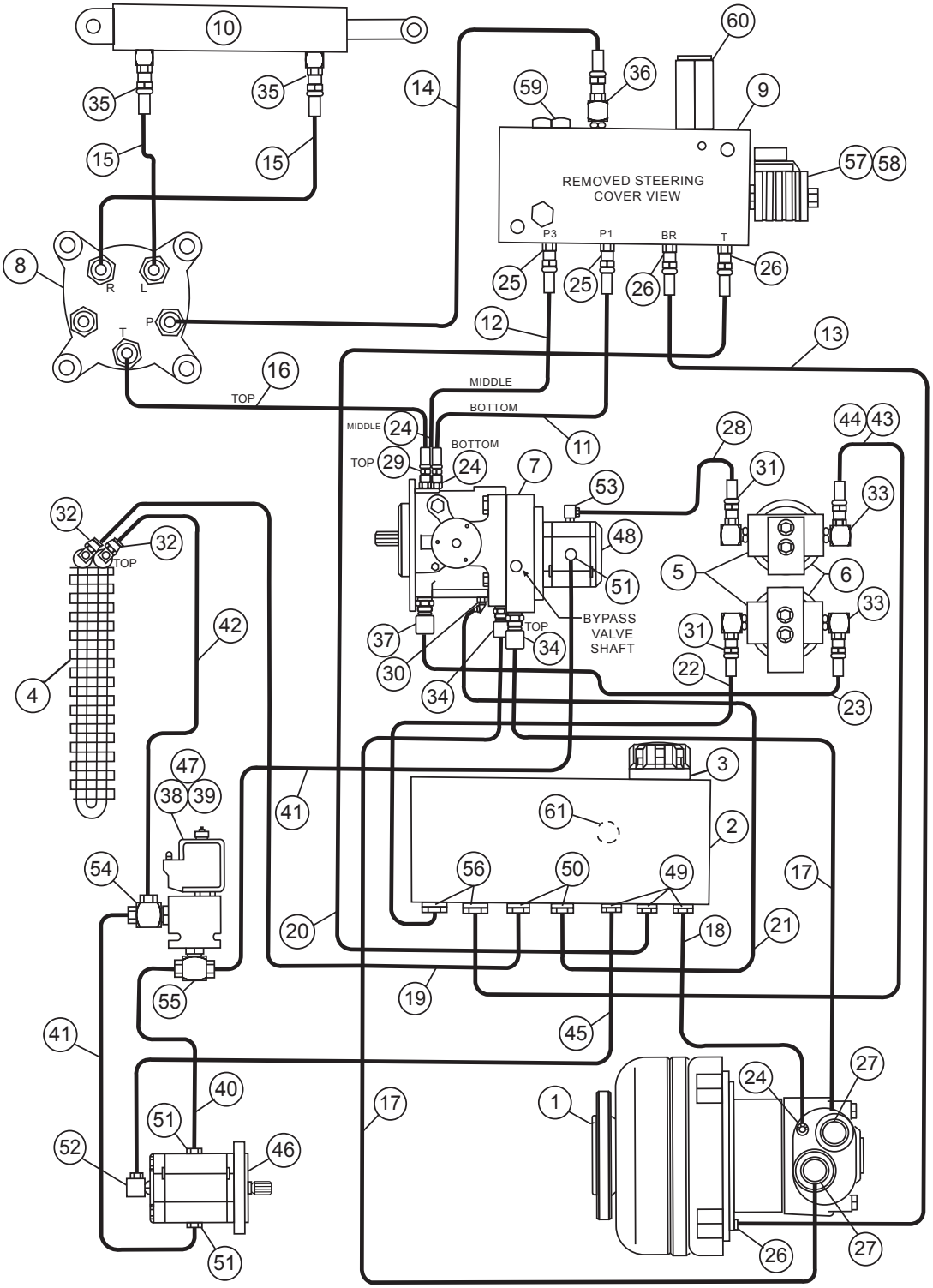
KUBOTA D1005 DIESEL ENGINE COMPONENTS



KUBOTA D1005 DIESEL ENGINE & RELATED COMPONENTS B305

*NOTE: Must have unit and engine S/N when ordering these engine parts

Item No.	Part No.	Description	Qty.
1	205-0344	Kubota Diesel Engine Model D1005	1
2a	235-0016	Fan Belt	1
2b	235-0015	Alternator Belt	1
3	000KD602	Bracket, Air Cleaner	1
4	000KD585	Engine Mount (RH)	1
5	000KD585	Engine Mount (LH)	1
6	205-0156	Oil Filter (Engine)	1
7	000KD619	Tail Pipe	1
8	000KD601	Bracket For Throttle Cable	1
9	000-3151	MTG Bracket for Fuel Filter (not shown)	1
10	000KD581	Spacer, Muffler (not shown)	1
11	000-3110	Center Floor Cover	1
12	205-0043	Muffler	1
13	205-0066	Cover, Muffler Flange (LH)	1
14	205-0067	Cover, Muffler Flange (RH)	1
15	205-0248	Muffler Complete (Kubota)	1
16	205-0252	Air Cleaner Element (Only)(Kubota)	1
17	205-0253	Air Cleaner Complete (Kubota) Steel Body	1
18	205-0014	Fuel Filter (Kubota) Spin on Type	1
19	432-0001-27	Fuel Line 5/16" x 27" Lg. (From Tank)	1
20	432-0001-14	Fuel Line 5/16" x 14" Lg. to (Fuel Pump Inlet)	1
21	420-0001-25	Fuel Line 3/16" x 25" Lg. (Return)	1
23	315-0014	Throttle Cable	1
24	645-0026	Ball Joint	1
25	230-0051	Coupling, Pump to Engine - Consists of (230-0051 Nylon Flange)(230-0037 Splined Hub)	1
26	100-0036	Propel Pump, SEE HYDRAULIC DIAGRAM	1
27	500-0061	Adapter Straight 1/4" NPT x 3/16" Barb	1
28	502-0014	Adapter 90° 1/4" NPT Male x 1/4" NPT Female	1
29	502-0021	Adapter 90° 1/4" NPT x 5/16" Barb	1
30	207-0046	Starter & Solenoid (not shown)	1
31	230-0051	Nylon Flange - 3 Hole	1
32	230-0037	Splined Hub	1
33	230-0042	Coupling Housing	1
34	100-0028	Gear Pump, Hyd. (Vibratory System)	1


REMOVED STEERING COVER VIEW
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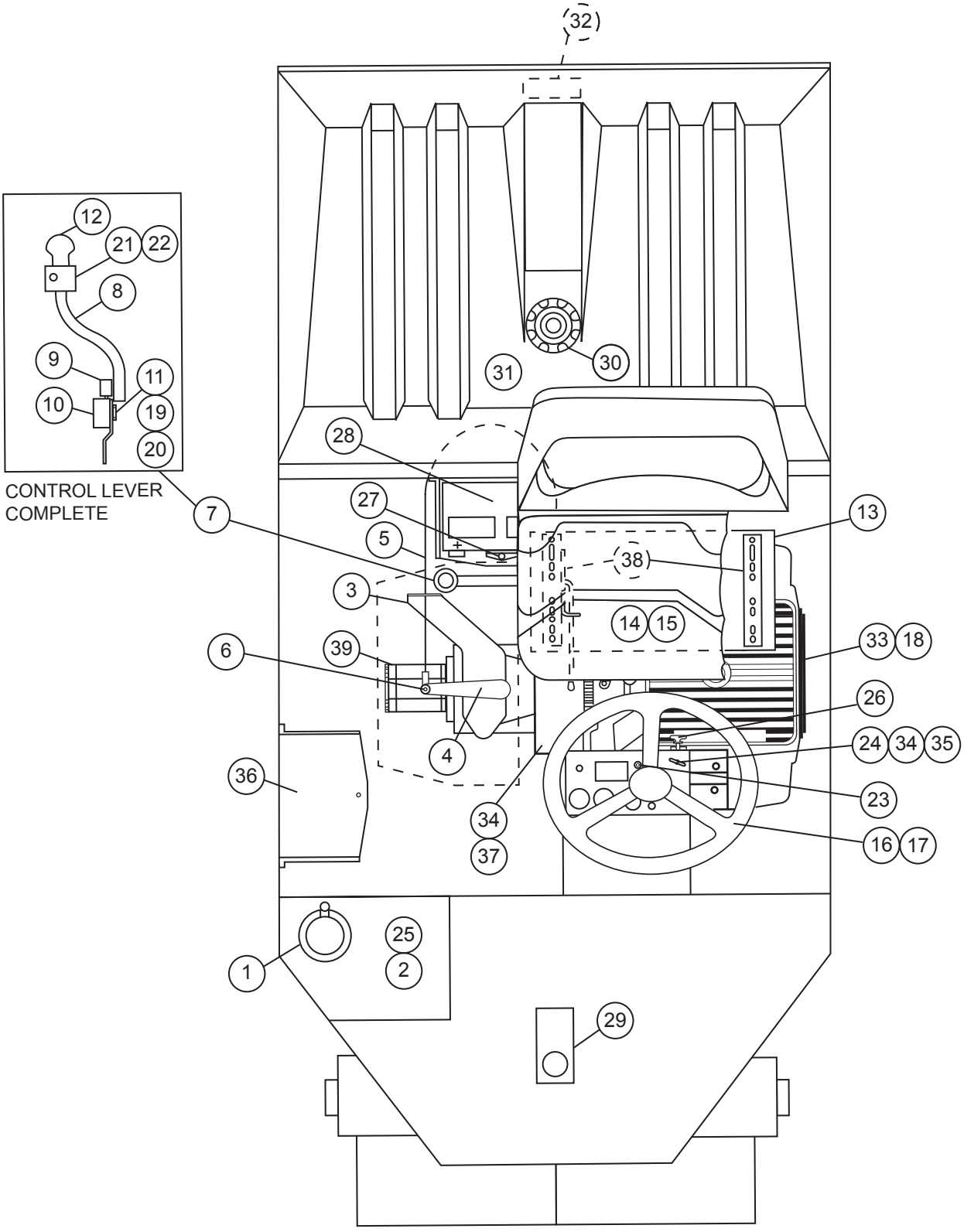
MIDDLE
BOTTOM
BYPASS VALVE SHAFT

HYDRAULIC SYSTEM B305

Item No.	Part No.	Description	Qty.
1	105-0031	Drive Motor w/Brake	1
2	000-2538	Tank, Hydraulic Oil	1
3	350-0002	Fill Cap w/Screen	1
4	125-0003	Heat Exchanger	1
5	130-0003	Filter Head	2
6	130-0002	Filter Element, Hydraulic Fluid	2
7	100-0036	Pump, Propel	1
8	105-0032	Motor, Steering Orbital	1
8	330-0023	Column, Steering Orbital (not shown)	1
9	110-0073	Manifold Package - Brake & Steering System	1
10	115-0008	Cylinder, Steering	1
11	403-0064	Hose Assembly, 3/8" I.D. HP x 34" Lg.	1
12	403-0065	Hose Assembly, 3/8" I.D. HP x 36" Lg.	1
13	403-0066	Hose Assembly, 3/8" I.D. HP x 92" Lg.	1
14	403-0061	Hose Assembly, 3/8" I.D. HP x 20" Lg.	0
15	403-0062	Hose Assembly, 3/8" I.D. HP x 24" Lg.	2
16	403-0073	Hose Assembly, 3/8" I.D. HP x 45" Lg.	1
17	404-0078	Hose Assembly, 1/2" I.D. HP x 30 1/2" Lg.	2
18	423-0001-34	Hose Assembly, 3/8" I.D. LP x 34" Lg.	1
19	424-0001-61	Hose Assembly, 1/2" I.D. LP x 61" Lg.	1
20	424-0001-71	Hose Assembly, 3/8" I.D. LP x 71" Lg.	1
21	426-0001-25	Hose Assembly, 1/2" I.D. LP x 25" Lg.	1
22	426-0001-13	Hose Assembly, 3/4" I.D. LP x 13" Lg.	1
23	426-0001-14 ½	Hose Assembly, 3/4" I.D. LP x 14 1/2" Lg.	1
24	500-0003	Adapter, Straight	3
25	500-0046	Adapter, Straight	2
26	500-0068	Adapter, Straight	3
27	500-0075	Adapter, Straight	2
28	426-0001-11	Hose Assembly 3/4" I.D. LP x 11" Lg.	1
29	500-0082	Adapter, Straight	1
30	501-0001	Adapter, 45°	1
31	502-0008	Adapter, 90°	1
32	502-0024	Adapter, 90°	2
33	502-0007	Adapter, 90°	2
34	502-0010	Adapter, 90°	2
35	502-0011	Adapter, 90°	2
36	502-0034	Adapter, 90°	1
37	502-0054	Adapter, 90°	1
38	110-0094	Cartridge Valve (Vibe Control)(Part of 110-0095)	1
39	110-0093	Coil Only (Vibe Control)(Part of 110-0095)	1
40	404-0084	Hose Assembly, 1/2" I.D. HP x 38" Lg.	1
41	404-0083	Hose Assembly, 1/2" I.D. HP x 34" Lg.	2
42	424-0004-33	Hose Assembly, 1/2" I.D. LP x 33" Lg.	1
43	426-0001-33	Hose Assembly, 3/4" I.D. LP x 33" Lg.	1
44	426-0001-24	Hose Assembly, 3/4" I.D. LP x 24" Lg.	1
45	423-0001-76	Hose Assembly, 3/8" I.D. LP x 76" Lg.	1
46	105-0040	Motor, Vibe	1
47	110-0095	Valve Package Complete, (Vibe Control)	1
48	100-0028	Pump, Vibe	1
49	500-0035	Adapter, Straight	1
50	500-0071	Adapter, Straight	1
51	502-0031	Adapter, 90°	3
52	502-0013	Adapter, 90°	1
53	502-0055	Adapter, 90°	1
54	503-0018	Adapter Tee	1
55	503-0015	Adapter Tee	1
56	500-0006	Adapter, Straight	2
57	110-0084	Cartridge - Brake Valve (Part of 110-0073)	1
58	110-0085	Coil - Brake Valve (Part of 110-0073)	1
59	110-0096	Check Valve (Part of 110-0073)	1
60	110-0097	Valve Pressure Relief (Part of 110-0073)	1
61	135-0017	Sight Gauge - Tank	1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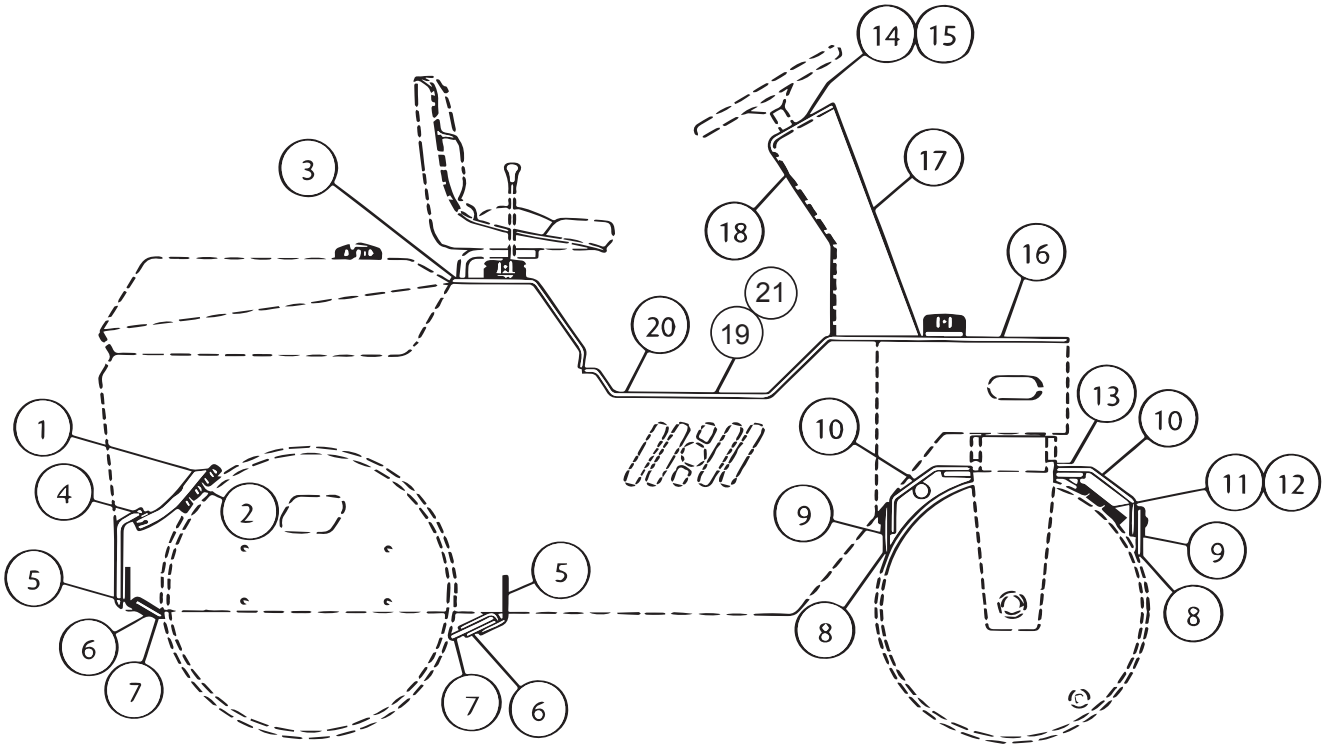
MISCELLANEOUS COMPONENTS

Item No.	Part No.	Description	Qty.
1	350-0002	Fill Cap Complete, Diesel Fuel	1
1	350-0033	Fill Cap Complete, Gasoline	1
2	000-3124	Fuel Tank	1
3	000-3021	Control Base Plate, Pump	1
4	000-3020	Control Lever, Pump	1
5	315-0011	Control Cable, Pump	1
6	645-0022	Ball Joint, Cable End	2
7	000-1441	Control Lever Complete	1
8	000-1437	Control Lever (Lever Only)	1
9	310-0005	Spring Plunger, Control Lever	1
10	000-1438	Mount, Control Lever	1
11	000-1440	Adjusting Bolt, Control Lever	1
12	350-0031	Knob	1
13	000-1240	Seat Base	1
14	395-0001	Seat Only	1
15	395-0002	Arm Rest Kit - OPTIONAL (not shown)	1
16	330-0024	Steering Wheel	1
17	330-0025	Steering Wheel Cap	1
*	330-0027	Spinner Knob - Steering Wheel - OPTIONAL	1
18	200-0389	Honda GX690 Engine	1
*	200-0400	Oil Filter, Honda	1
*	200-0402	Fuel Filter, Honda	1
*	200-0401	Air Filter Element, Honda	1
19	305-0001	Bushing	1
20	305-0003	Washer	1
21	000-3013	Housing for Switch	1
22	335-0071	Switch, Toggle	1
23	315-0001	Choke Cable - Gasoline Engine	1
24	315-0022	Throttle Cable - Gasoline Engine	1
25	530-0008	Valve, Slosh - Fuel (not shown)	1
26	645-0005	Rubber Hood Latch w/Mounting Hardware	1
27	385-0074	Battery Hold Down	1
28	335-0267	Battery, 12 Volt	1
29	000-3136	King Pin (See p.11 for Front End Assembly)	1
30	350-0020	Cap w/Chain & Clip - Water Tank	1
31	000-1138	Water Tank - 50 Gallon	1
32	335-0265	Back Up Alarm	1
33	205-0344	Engine, Kubota Diesel - Model D1005 (not shown)	1
34	205-0043	Muffler - Kubota Diesel (See p.19 for Kubota Diesel Engine)	1
35	315-0014	Throttle Cable - Diesel Engine	1
36	000-1405	Battery Tray (Diesel Engine)	1
37	200-0390	Muffler - Honda GX690	1
38	395-0019	Adjustable Seat Slides	1
39	100-0028	Pump, Vibe System	1
*	380-0114	Decal Kit, Complete Set B305	1

Please Check Engine Serial & Spec Numbers Before Ordering Parts

*** Item Not Shown**

COVERS, RUBBER SCRAPERS AND COCOA MATS



Item No.	Part No.	Description	Qty.
1	000-1294	Rear Cocoa Mat Pan	1
2	355-0003	Rear Cocoa Mat	1
3	000-3107	Rear Floor Cover	1
4	000-1271	Rear Cocoa Mat Pivot Bracket	2
5	000-1277	Bracket - Scraper Rear Drum	4
6	000-1278	Back Up Bar - Rear Rubber Scraper	4
7	000-1279	Rear Rubber Scraper	2
8	000-1269	Front Rubber Scraper	2
9	000-1268	Back Up Bar - Front Rubber Scraper	4
10	000-1270	Front Scraper Arm	4
11	000-1419	Front Cocoa Mat Pan	1
12	355-0001	Front Cocoa Mat	1
13	000-1416	Front Cocoa Mat Pivot Bracket	2
14	000-V021	Vandal Cover Assembly - OPTIONAL	1
15	000-V013	Locking Tab Vandal Cover - OPTIONAL	1
16	000-3108	Front Floor Cover	1
17	000-3140	Cover - Steering Column	1
18	000-3112	Steering Column / Dash Panel	1
19	000-3110	Center Floor Cover (w/louvers)	1
20	000-V005	Locking Tab Floor Cover - OPTIONAL	2
21	000-2542	Heat Deflector Shield (Under Center Floor Cover)	1
*	380-0114	Decal Kit, Complete Set B305	1

B305 SPECIFICATIONS

WEIGHTS

Shipping Weight . . . . . 3100 lbs.
Operating Weight (Full Ballast + Operator) . . . . . 4200 lbs.

DIMENSIONS

Overall Length . . . . . 97 in.
Overall Height . . . . . 65 in.
Overall Width . . . . . 44 in.
Wheelbase . . . . . 65.5 in.
Curb Clearance . . . . . 11 in.
Wall Clearance . . . . . .75 in.

CAPACITIES

Fuel . . . . . 5 gal.
Hydraulic Fluid . . . . . 4 gal.
Engine Oil (Honda Engine) . . . . . 2.1 qts.
Water Tank . . . . . 50 gal.

DRUMS

FRONT - SPLIT:

Overall Width . . . . . 30 in.
Diameter . . . . . 24 in.
Shell Thickness . . . . . .437 in.

REAR:

Overall Width . . . . . 40 in.
Diameter . . . . . 28 in.
Shell Thickness . . . . . .500 in.

STEERING

Type . . . . . Hydraulic, cylinder-front drum
Turning Radius (inside) . . . . . 68 in.
Oscillation . . . . . 24˚ Total

DRIVE

Drive System . . . . . Hydrostatic, *Internal Direct Drive,* Rear Drum, Single Lever, Infinitely Variable Controls
Travel Speed . . . . . 0-6 MPH
Engine . . . . . Honda GX690 Twin Cylinder Air Cooled, Gasoline, Electric Start, 12 Volt Battery 24HP @ 3600 RPM

VIBRATION SYSTEM -REAR DRUM

Type . . . . Hydraulic Direct Drive (Vibe Shaft & Motor in Drum)
Control . . . . . On-Off Switch on Control Lever
Frequency . . . . . 2500 VPM
Centrifugal Force . . . . . 600 lbs. @ 2500 VPM
Total Applied Force . . . . . 9500 lbs.

BRAKES

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

DRUM SPRAY SYSTEM

Type . . . . . Pressurized w/quick disconnect spray nozzles
Tank . . . . . Polyethylene plastic, 3” fill neck, cap w/safety chain rear, 50 gal. capacity
Drum Scrapers . . . . . Four adjustable, rubber
Drum Cocoa Mats . . . . . One each drum, pivoting

STANDARD EQUIPMENT

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

OPTIONAL EQUIPMENT

- Kubota Diesel Engine
- Vandal Protection Package
- Work Lights
- Arm Rests
- Special Paint (Any Color)
- ROPS (Rollover Protection Structure) w/Seat Belt

NOTES

COMPACTOR IDENTIFICATION INFORMATION

COMPACTOR SERIAL NUMBER: _____

ENGINE, MAKE, MODEL & SERIAL NUMBER: _____

PURCHASE DATE: _____

DEALER: _____

PHONE #: _____

COMPACTOR SERVICE INFORMATION

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