VIBRATORY PLATE COMPACTOR BC110

Bobcat®

Operation/ Maintenance And Parts Manual



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BC110 PLATE COMPACTOR
OPERATION, MAINTENANCE and PARTS MANUAL
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This manual should be used with all related supplemental books, engine and transmission manuals, and part books. Related Service Bulletins should be reviewed to provide information regarding some of the recent changes.

If any questions arise concerning this publication or others, contact your local distributor for the latest available information.

Contents of this manual are based on information in effect at the time of publication and are subject to change without notice.

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CHECK AND CHANGE ENGINE OIL

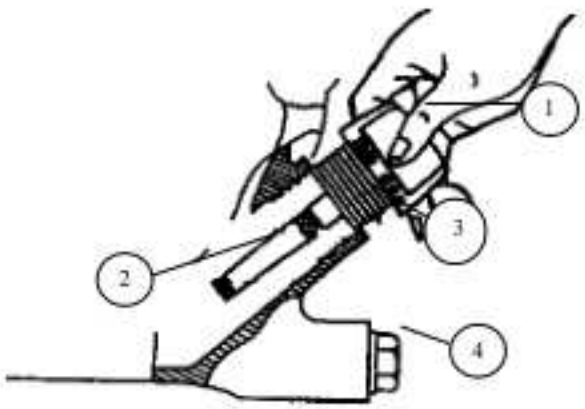
Before checking or refilling engine oil, be sure the machine is located on a stable level surface and stopped.
When checking oil do not thread the oil gauge (1, Figure 9-1) into oil filler to check oil level. If the oil level is below the lower level (2, Figure 9-1) line on the dipstick, refill with the proper oil to the upper level (3, Figure 9-1)(to the neck of oil filler).

When changing oil stop the engine, loosen and remove the drain plug (4, Figure 9-1), reinstall the drain plug before refilling oil.

Add new oil at the oil gauge (1, Figure 9-1) port.

Always use the best grade and clean oil. Contaminated oil, poor quality oil and shortage of oil cause damage to engine or shorten the engine life.

Figure 9-1



(HONDA Engine Shown)

Changing and filling:
ENGINE OIL (SAE 10W30) HONDA 1.26 Pints (0.59liters)
ROBIN 1.28 Pints (0.61 liters)

Use class SE, SF (API classification) or higher grade oil.

Initial oil change ..... After 20 hours of operation.
Thereafter ..... Every 50 hours of operation.

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TROUBLESHOOTING

1) Engine fails to start.

a) Spark plug is defective	Clean or replace.
b) Air in the fuel system.	Bleed air completely.
c) Fuel tank is empty.	Fill Tank
d) Carburetor is clogged.	Clean or replace, if necessary.
e) Excessive fuel.	Open fuel drain cock and drain excess fuel. Clean spark plug.

2) Engine runs irregularly.

a) Fuel line sucks air.	Retighten the fuel pipe joints and bleed air.
b) Air cleaner is clogged.	Clean air cleaner or replace element.
c) Engine stalls during operation.	Clean fuel system and retighten the fuel pipe joints.
d) Low compression.	Replace head gasket or retighten spark plug.

3) Machine fails to vibrate.

a) Incorrect setting RPM of engine.	Adjust.
b) Throttle cable is slacked.	Adjust.
c) Centrifugal clutch is slipped.	Overhaul or replace, If necessary.
d) Belt is slipped.	Adjust or replace, If necessary.

4) The travelling is bad or the vibration is diffuse.

a) Incorrect setting RPM of engine.	Adjust.
b) Air cleaner is clogged.	Clean air cleaner or replace element.
c) Centrifugal clutch is slipped.	Overhaul or replace, If necessary.
d) Belt is slipped.	Adjust or replace, If necessary.

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SPECIFICATIONS

MODEL	BC110
WEIGHT	245 pounds (110 kg)
VIBRATION FREQUENCY	6500 CPM (108 Hz)
CENTRIFUGAL FORCE	4630 pounds (20.6 kN)
TRAVEL SPEED	72 to 75 feet per minute (22 to 23 mpm)
OVERALL LENGTH	44.0 inches (1120 mm)
OVERALL HEIGHT	37.8 inches (960 mm)
PLATE SIZE (W x L)	22 x 26 inches (550 x 650 mm)
ENGINE (MAKE & MODEL)	Honda GX120K air cooled Robin EY20 air cooled
ENGINE HORSEPOWER	4.9 HP (3.7 kW) 4.6 HP (3.4 kW
FUEL TANK CAPACITY	Honda 3.9 quarts (3.7 liters) Robin 4.0 quarts (3.8 liters)
FUEL	Automotive gasoline
STARTING SYSTEM	Recoil starter

ENGINE RPM SETTINGS

NOTE

For engine rpm settings, refer to the engine manual.

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ITEM	COMM. NO.	DESCRIPTION	QTY	DIMENSIONS/NOTES
1	IR54474697	Oil Alert Unit	1	
4	IR54474739	Fan Cover	1	
7	IR54474796	Side Plate	1	
10	IR54474804	Stop Switch Cord Clamp	1	
11	IR54474812	Shroud	1	
13	IR54474820	Engine Stop Switch Harness	1	
14	IR59244145	Engine Stop Switch	1	
15	IR59244152	Stop Switch Cord	1	
17	IR54474838	Label: Specification	1	
18	IR54474846	Label: Oil Alert	1	
21	IR59242990	Flange Bolt	4	M6 x 12mm
22	IR59244764	Flange Bolt	1	M6 x 20mm
24	IR59244103	Flange Bolt	1	M6 x 8mm

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