VIBRATORY PLATE COMPACTOR BC70

Bobcat®

Operation/ Maintenance And Parts Manual



An Ingersoll-Rand business

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BC70 PLATE COMPACTOR
OPERATION AND MAINTENANCE 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.

CONTENTS SECTION

SAFETY PRECAUTIONS AND GUIDELINES	1
INTRODUCTION	2
SYMBOL IDENTIFICATION AND METRIC CONVERSION	3
OPERATING INSTRUCTIONS	4
FUEL AND LUBRICATION SPECIFICATIONS	5
INITIAL BREAK-IN MAINTENANCE	6
TROUBLE SHOOTING AND GENERAL MAINTENANCE	7
10 HOUR OR DAILY ROUTINE MAINTENANCE	8
50 HOURS OR WEEKLY ROUTINE MAINTENANCE	9
100 HOURS OR MONTHLY MAINTENANCE	10
250 HOURS OR QUARTERLY ROUTINE MAINTENANCE	11
500 HOURS OR SEMI-ANNUAL ROUTINE MAINTENANCE	12
1000 HOURS OR ANNUAL ROUTINE MAINTENANCE	13
ROUTINE ADJUSTMENTS	14
MISCELLANEOUS AND OPTIONAL EQUIPMENT	15
SCHEMATICS	16
SPECIFICATIONS	17
PARTS MANUAL	18

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Contents Page

ENGINE OIL 1

CHECK AND CHANGE ENGINE OIL

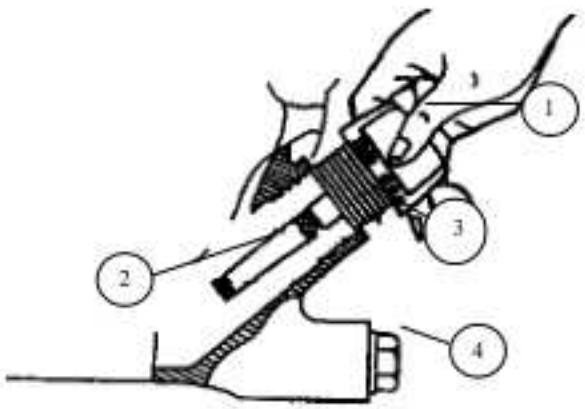
Before checking or refilling engine oil, be sure the machine is located on a stable level surface and stopped.
When checking oil do not thread the oil gauge (1, Figure 9-1) into oil filler to check oil level. If the oil level is below the lower level (2, Figure 9-1) line on the dipstick, refill with 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 1.06 Pints (0.50 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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TABLE OF CONTENTS
BC70

TITLE	PAGE
Table of Contents	A
Abbreviations Used In This Manual	B
Recommended Service Parts	D

ENGINE AND VIBRATION UNIT

A

Vibration Plate, Engine, Handle And Clutch	A.1.2
Vibration Unit Assembly	A.2.2

For Internal Breakdowns - See Section I.

ROLLOVER CAGE AND WATER TANK

B

Rollover Cage Assembly And Water Tank Assembly	B.1.2
Water Tank Assembly - Old Type (Steel)	B.2.2

CARRYING CART, TOOLS AND DECALS

C

Carrying Cart Assembly, Standard Tool Kit And Decals	C.1.2

INTERNAL BREAKDOWNS

I

Robin Engine (58837774)- Effective with S/N LB6011	I.1.2
Robin Engine (58836347)- Prior to S/N LB6011	I.2.2
Honda Engine (58836438) - Effective with S/N OB6041	I.3.2

WORD INDEX

W

Word Index	W.1.2

NUMERIC INDEX

X

Numeric Index	X.1.2

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SECTION 7 - TOUBLE SHOOTING - GENERAL MAINTENANCE

Contents

	Page
TROUBLE SHOOTING	1
GENERAL MAINTENANCE	2
TIMING BELT REPLACEMENT	3

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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SECTION 17 - SPECIFICATIONS

Contents Page

SPECIFICATIONS 1
ENGINE RPM SETTINGS 1

SPECIFICATIONS

MODEL	BC70
WEIGHT	150 pounds (70 kg)
VIBRATION FREQUENCY	5500 CPM (92 Hz)
CENTRIFUGAL FORCE	2650 pounds (11.8 kN)
TRAVEL SPEED	82 to 89 feet per minute (25 to 27 mpm)
OVERALL LENGTH	38.6 inches (980 mm)
OVERALL HEIGHT	37.8 inches (960 mm)
PLATE SIZE (W x L)	15.7 x 20.7 inches (400 x 525 mm)
ENGINE (MAKE & MODEL)	Honda GX120K air cooled Robin EY15 air cooled
ENGINE HORSEPOWER	3.5 HP (2.6 kW) 3.4 HP (2.5 kW
FUEL TANK CAPACITY	2.6 quarts (2.5 l)
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	IR59244111	Cover Adjustment Grommet	1	
2	IR54474697	Oil Alert Unit	1	
4	IR13221130	Fan Cover (Effective with Engine S/N 2186370)	1	
5	IR13221148	Fan Cover (Prior to Engine S/N 2186370)	1	
6	IR13221155	Side Plate	1	
8	IR54474804	Stop Switch Cord Clamp	1	
9	IR13221163	Shroud	1	
10	IR54474820	Engine Stop Switch Harness	1	
11	IR59244145	Engine Stop Switch	1	
12	IR59244152	Stop Switch Cord	1	
14	IR13221171	Label: Specification	1	
15	IR54474846	Label: Oil Alert	1	
18	IR59242990	Flange Bolt	4	M6 x 12mm
19	IR59244764	Flange Bolt	1	M6 x 20mm
20	IR59244103	Flange Bolt	1	M6 x 8mm

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