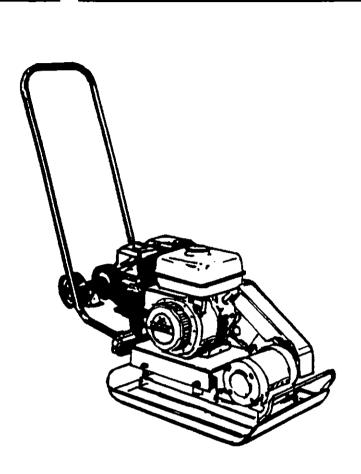
INGERSOLL-RAND

HX55 SERIES

OPERATING & MAINTENANCE INSTRUCTIONS AND PARTS MANUAL

Vibratory Plate Compactor (Effective S/N. 1501)



Do not remove operation manual from machine. Replace manual if damaged

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Ingersoll-Rand Sales Company Limited PO Box 2, Chorley New Road, Horwich Bolton BL6 6JN United Kingdom

HX55 ENGLISH COMM.NO. 10571644 Revised (01-13)

EC DECLARATION	OF CONFORMITY
WITH EC DI	RECTIVES
89/392/EEC, 91/368/EEC,	93/44/EEC. 93/68/EEC.
WE,	
ERRUT PRODUCTS LTD. Represente SPEEDWELL IND. EST. in the EU b STAVELEY CHESTERFIELD S43 3PG UNITED KINGDOM	
DECLARE THAT, UNDER OUR SOLE RESPONSIBLITY FO	OR MANUFACTURE AND SUPPLY, THE PRODUCT(S),
MODEL <u>TYP</u> HX55 SERIES VIBRATORY BASEPL	
TO WHICH THIS DECLARATION RELATES, IS (ARE) IN C DIRECTIVES USING THE FOLLOV	
 prEN 500-1 prEN 500-4 the EN and ISO standards me 	ntioned in chapter 2 of prEN 500-1
Issued at Chesterfield on 01/04/1996 by: R.Steel, Technical Manager	Issued at Horwich on 01/04/1996 by: W. Porritt, Quality Assurance Manager
Asthing	
R.STEEL	W.PORRITT

FOREWORD

Basic operation and designated use of the machine/plant.

The machine has been built in accordance with state-of-the-art standards and the recognized safety rules. Nevertheless, its use may constitute a risk to life and limb of the user or of third parties, or cause damage to the machine and to other material property.

The machine must only be used in technically perfect condition in accordance with its designated use and the instructions set out in the operating manual, and only by safety-conscious persons who are fully aware of the risks involved in operating the machine. Any functional disorders, especially those affecting the safety of the machine, should therefore be rectified immediately.

Designated Use:

The machine is designed exclusively for the compaction of soil and asphaltic road construction materials. Using the machine for purposes other than those mentioned above is considered contrary to its designated use. The manufacturer/supplier cannot be held liable for any damage resulting from such use. The risk of such misuse lies entirely with the user.

Operating the machine within the limits of its designated use also involves observing the instructions set out in the operating manual and complying with the inspection and maintenance directives.

Operator exposure to vibration.

In accordance with requirements of clauses 2.2 of Annex [of the Machinery Directive 89/92/EEC and Directive 91/368/EEC, the machine series model have been tested and the weighted root mean square acceleration to which the operator's arm is exposed recorded exceeds 2.5 m/s²

Operator exposure to Airborne Noise Emission.

In accordance with requirements of clauses 1.7.5f of Annex I of the Machinery Directive 89/392/EEC and Directive 91/368/EEC, the machine has been tested and noise emission, dependant on engine model is as quoted in Table I.

Tests were conducted according to Standards BS 6842 / EN28662-5, with machine running at rated engine speed on an elastic surface in a grassed area

Identification data

An exact description of the model type and its serial number of your machine will facilitate fast and efficient response from our parts and service support operations,

Always provide the model of your machine and its serial number when you contact the local Ingersoll-Rand service or parts office.

We advise you to enter your machine data in the following lines to maintain machine and engine information:

Model.: HX55 Serial No..... Year of manufacture..... Engine Serial No. and type of engine.

TABLE I - NOISE EMMISSION

Model	Engine Make	Noise Level at Operator's Ear (dbA)	Sound Power Level (dbA)
HX55	HONDA	94	90
HX55R	ROBIN	94	90
HX55H	HONDA	94	90
HX55HR	ROBIN	94	90
HX55Y	YANMAR	94	91
HX55HY	YANMAR	94	91
HX55Z	HATZ	96	93
HX55HZ	HATZ	96	93

HX-55 REVERSIBLE PLATE COMPACTOR OPERATION AND MAINTENANCE MANUAL COMMUNICATION NO. 10571644

SECTION

This manual should be used with all related supplemental books, engine and transmission manuals, and parts 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. SAFETY PRECAUTIONS AND GUIDELINES 1

INTRODUCTION 2

SYMBOL IDENTIFICATION AND METRIC CONVERSION 3

OPERATING CONTROLS AND INSTRUMENTS 4

OPERATING INSTRUCTIONS 5

FUEL AND LUBRICATION SPECIFICATIONS 6

INITIAL BREAK-IN MAINTENANCE 7

ROUTINE MAINTENANCE SCHELUDE CHART 8

4 HOUR OR DAILY ROUTINE MAINTENANCE 9

40 HOUR OR WEEKLY ROUTINE MAINTENANCE 10

100 HOUR ROUTINE MAINTENANCE 11

500 HOUR OR SEMI-ANNUAL ROUTINE MAINTENANCE 12

ROUTINE ADJUSTMENTS 13

MISCELLANEOUS AND OPTIONAL EQUIPMENT 14

SPECIFICATIONS 15

PARTSIDENTIFICATION 16

INDEX 17

SECTION 1 - SAFETY PRECAUTIONS AND GUIDELINES

Contents

Page C

OVERVIEW - SAFETY PRECAUTIONS AND GUIDELINES ______ 1 PRE-START INSPECTION _____ 1

Contents	Page
OPERATING	1
MAINTENANCE	1

OVERVIEW

BEFORE YOU OPERATE, MAINTAIN OR IN ANY OTHER WAY, OPERATE THIS MACHINE:

READ and STUDY this manual. KNOW how to safely use the unit's controls and what you must do for safe maintenance.

ALWAYS wear or use the proper safety items required for your personal protection.

If you have ANY QUESTIONS about the safe use or maintenance of this unit,

ASK YOUR SUPERVISOR OR CONTACT ANY INGERSOLL-RAND DISTRIBUTOR. NEVER GUESS - ALWAYS CHECK!

PRE-START INSPECTION

INSPECT your machine. Have any malfunctioning, broken or missing parts corrected or replaced before use.

VERIFY that all the instruction and safety labels are in place and readable. These are as important as any other equipment on the compactor.

NEVER fill the fuel tank, with the engine running, while near an open flame, or when smoking. ALWAYS wipe up any spilled fuel **immediately**.

CHECK for WARNING tags placed on the machine. DO NOT operate the equipment until repairs have been made and the WARNING tags are removed by authorized personnel.

KNOW the location of the Emergency Shut-Down Control if the machine is so equipped.

OPERATING

Always make sure that no person or obstruction is in your line of travel. Watch your step to avoid tripping.

USE extreme caution and be observant when working in close quarters or congested areas.

DO NOT run the engine in a closed building for an extended length of time. EXHAUST FUMES CAN KILL.

DO NOT operate the compactor on non-compactable material, such as concrete or hardened asphalt.

MAINTENANCE

AVOID, whenever possible, servicing, cleaning or examining the unit with the engine running.

The engine must be switched off before any work is carried out on the machine and, to prevent accidental starting, the following instructions must be followed.

- (a) Petrol engines ALWAYS disconnect the spark plug before performing any work on the unit.
- (b) Diesel Engines ON/OFF switch must be at 'OFF' position.

DO NOT alter the engine governor settings from that indicated in the engine manual.

ALWAYS replace damaged or lost decals. Refer to the Parts Manual for the proper location and part number of all decals.

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SECTION 2 - INTRODUCTION

Safe operation depends on reliable equipment and the use of proper operating procedures. Performing the checks and services described in this manual will help keep your compactor in good condition. These recommended operation procedures will help you to avoid unsafe practices.

Safety notes have been included throughout this manual to help you avoid injury and prevent damage to the equipment. These notes are not intended to cover all eventualities; it is impossible to anticipate and evaluate all possible methods of operation. Therefore, you are the only person who can guarantee safe operation and maintenance.

It is important that any procedure not specifically recommended in this manual be thoroughly evaluated from the standpoint of safety before it is implemented.

Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication.

Each publication is reviewed and revised, as required, to update and include these changes in later editions.

Ingersoll-Rand reserves the right to modify or make changes within a specific model series group without notice and without incurring any liability to retrofit units previously shipped from the factory. Contact your Ingersoll-Rand Distributor for non-routine maintenance information that is not covered in this publication.

Note:

The model series referred to in this manual has optional engines as listed below. It is important to relate the instructions in this manual to the particular engine installed on your machine. The instructions relate to the Standard engine most commonly installed in this model series. Therefore it is important to read this manual together with the engine manufacturer's instruction manual provided with the machine. The engine manufacturer's manual will contain further detailed and specific instructions on operation and maintenance.

Engine availability.

Make	Engine	Engine
	Model	Remarks
		Standard
Honda		Standard
Honda	GX160	Standard
Honda	GX160	Standard
Robin	EY20	Optional
		_
Yanmar	L40	Optional
		-
Hatz	E673	Optional
	Honda Honda Honda Honda Robin Robin Robin Robin Robin Robin Yanmar Yanmar Yanmar Yanmar Yanmar Yanmar Hatz Hatz Hatz Hatz Hatz Hatz	ModelHondaGX160HondaGX160HondaGX160HondaGX160HondaGX160RobinEY20RobinEY20RobinEY20RobinEY20RobinEY20RobinEY20RobinEY20YanmarL40YanmarL40YanmarL40YanmarL40HatzE673HatzE673HatzE673HatzE673HatzE673

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION

Contents

Contents

Page

Page

INTERNATIONAL MACHINE SYMBOLS ____ 1 INTERNATIONAL HIGHWAY SYMBOLS ___ 1

METRIC CONVERSION _____ 2

INTERNATIONAL MACHINE SYMBOLS

The following explains the meaning of international symbols that may appear on your machine.

		Ο		副	X	€	֎→
	ENGINE ON	ENGINE OFF	CAUTION	DIESEL FUEL	WATER	FORWARD	REVERSE
	ļ	A				6	(STOP)
	GREASE	OIL	FREQUENCY	VIBRATION	ENGINE ON	VIBRATION	ENGINE STOP EMERGENCY
	Ū	0	с	LINEAR	ROTATIONAL	-	4
	ENGINE ON	ENGINE OIL	LIFT POINT	INCREASE	INCREASE	LOW SPEED	HIGH SPEED
		围					
L	CHOKE	FUEL					

SECTION 3 - SYMBOL IDENTIFICATION AND METRIC CONVERSION

METRIC CONVERSION

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	vibrations per minute	Hertz	0.0167

SECTION 4 - OPERATING CONTROLS AND INSTRUMENTS

Contents	Page	Contents	Page
GENERAL ARRANGEMENT FUEL VALVE LEVER CHOKE LEVER THROTTLE LEVER	2 2	RECOIL STARTER ENGINE STOP (ON/OFF SWITCH) EMERGENCY STOP TRANSPORT	3 3

GENERAL ARRANGEMENT

A general arrangement of the machine, Refer Figure 4-1, indicates the location of the major componants.

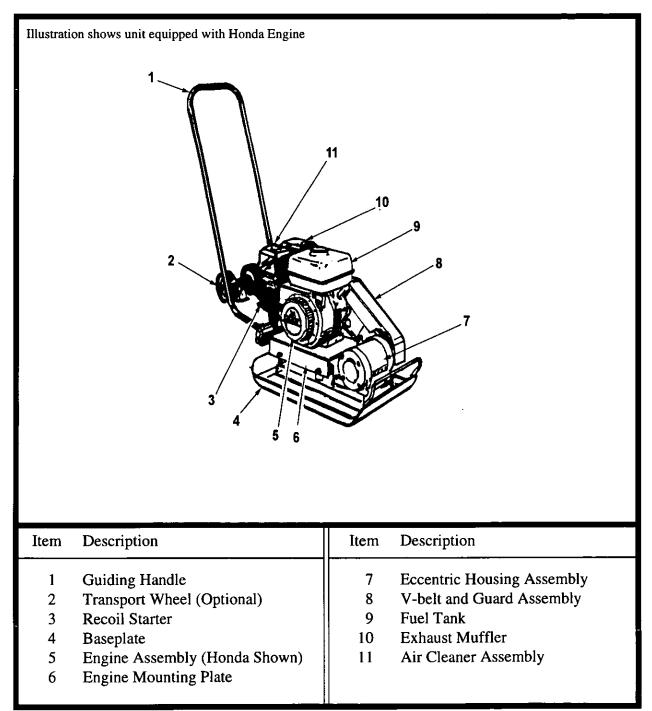
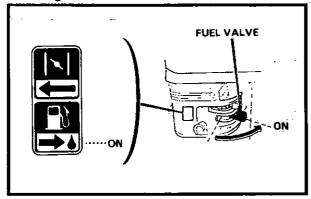


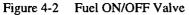
Figure 4-1 General Arrangement of HX-55 Series Vibratory Plate Compactor.

SECTION 4 - OPERATING CONTROLS AND INSTRUMENTS

FUEL VALVE LEVER

The Fuel ON/OFF Valve lever is located on the engine, Refer Figure 4.2





1

CHOKE LEVER

The Choke Lever is located on the engine, below the Fuel Valve lever, refer Figure 4-3.

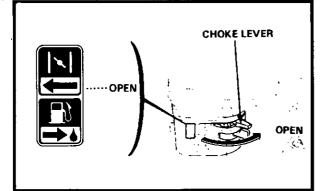


Figure 4-3 Choke Lever

The Choke Lever used to control the ratio of the air to gasoline fuel mixture.

When the engine is cool or just started, the choke should be closed. As the engine warms up, the choke lever can be opened approximately one half to completely open depending upon how well the engine runs.

THROTTLE/VIBRATION CONTROL LEVER

The Throttle Lever, refer Figure 4-4, is located on the engine and is used to control the engine speed and vibration ON/OFF.

Pull the lever toward the operator for high engine idle speed \clubsuit / vibration 'ON'.

Push the lever forward away from the operator for low

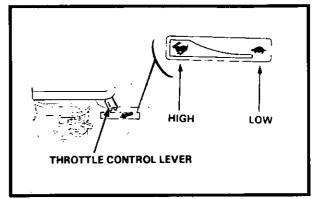


Figure 4-4 Throttle Control Lever (Engine Speed)

engine idle speed **(**) vibration 'OFF'. DIRECTION CONTROL LEVER

The increase in engine speed to high idle will cause the plate to vibrate and move in a forward direction of travel when performing compaction operations.

RECOIL STARTER



Avoid pulling the rope completely out. If you do, the recoil starter could be damaged and the rope broken. Allow the rope to return to the original position.

The Recoil Starter is provided to start the engine refer

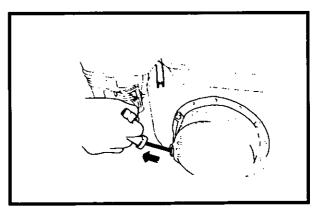


Figure 4-5 Recoil Starter

Figure 4-5.

. Pull the handle of the rope forcibly while holding the operating handle. After start-up of the engine, allow the engine to warm-up at a slow speed without load for approximately three minutes.

Page

PREPARATION	1
SAFETY CHECKS - PRE-STARTING	1
BEFORE OPERATING THE UNIT	2
START-UP PROCEDURE	2

PREPARATION

The Vibratory Plate has been throughly tested prior to despatch and the fuel tank has been drained for transit.

However the following checks should be made prior to putting the compactor into operation:-

SAFETY CHECKS - PRE-STARTING

Before starting each day, in addition to the 4 hour /daily routine maintenance, check or inspect the following ' items to ensure trouble free performance.





Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRE-CAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.

1. Check fluid lines, hoses, fittings, filler openings, drain plugs, muffler, safety shrouds and any other areas for signs of leakage or damage. Fix any leaks and correct any damage before operating.

2. Inspect the entire unit for loose bolts/nuts, damaged or missing parts and repair or replace them as needed.

3. Check the engine oil level. If the level is low, add fresh oil to upper level on the oil level gauge. Refer Figure 5-1.

4. Check the eccentric housing oil level and add oil as needed to bring to correct level, Refer Figure 5-2.

Contents	Page
COMPACTOR OPERATION	3
SHUT-DOWN PROCEDURE	3
STORAGE	4

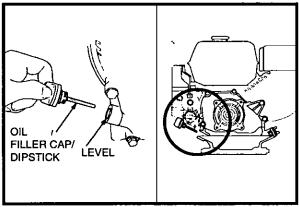


Figure 5-1 Engine Oil Level

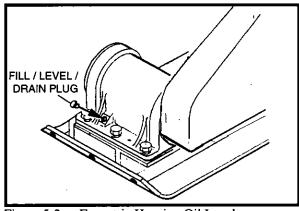


Figure 5-2 Eccentric Housing Oil Level





Fuel is flammable. May cause injury and property damage.

Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank.

Always wipe up any spilled fuel.

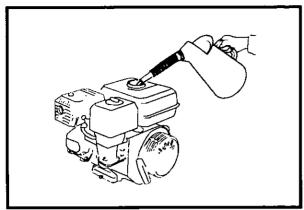


Figure 5-3 Fuel Fill

5. Check the fuel level. If necessary fill the fuel tank with the correct fuel, Refer Figure 5-3.

6. DO NOT operate faulty equipment.

7. Be observant of people and obstructions within the work area.

BEFORE OPERATING THE UNIT

1. READ this Instruction Manual and the Engine Manufacturer's Manual for correct engine starting procedure..

2. Ensure that the 10 Hour or Daily Routine Maintenance is performed.

START-UP PROCEDURE

IF YOU ARE IN DOUBT OF THE OPERATION OF THIS UNIT AFTER READING THESE PRO-CEDURES - SEE YOUR SUPERVISOR. READ ALL OF THE INSTRUCTIONS PRIOR TO STARTING THE MACHINE.

1. Open the fuel cock located under the fuel tank, Refer Figure 5-4.

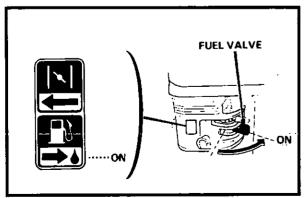


Figure 5-4. Fuel ON/OFF Valve

2. Close the choke lever, Refer Figure 5-5.

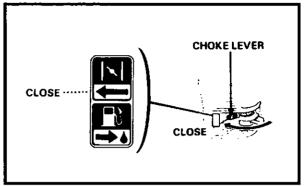


Figure 5-5 Choke Lever - Closed

As the engine warms up, gradually open the choke lever halfway or completely, depending upon engine condition, Refer Figure 5-6.

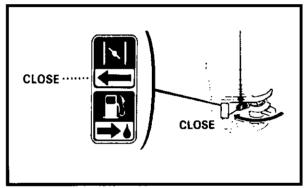


Figure 5-6 Choke lever - Open

3. Position the Throttle Lever at the low Idle speed position = \clubsuit , Refer Figure 5-7.



There is no neutral position, the compactor does not move at low idle engine speed.

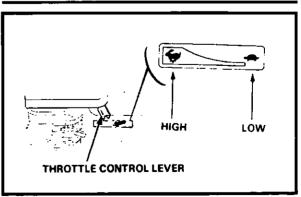


Figure 5-7 Throttle Control Lever (Engine Speed)

4. Start the engine by turning the engine switch to the ON position = I. Refer Figure 5-8.

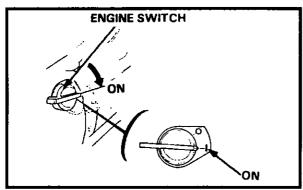


Figure 5-8 Engine ON/OFF Switch

Pull the starter grip likely until resistance is felt, then pull forcibly while holding the operation handle, Refer Figure 5-9.

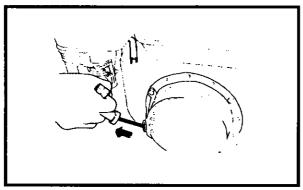


Figure 5-9 Recoil Starter operation

CAUTION

Avoid pulling the rope completely out. If you do, the recoil starter could be damaged and the rope broken. Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

5. After start-up of the engine, open the choke lever gradually.

6. Allow the engine to warm up at slow speed without load.

COMPACTOR OPERATION



There is no neutral position, the compactor does not move at low idle speed.

1. After the engine has warmed up, quickly move the Throttle Lever to High Idle position \clubsuit when the centrifugal clutch will engage automatically, causing the compactor to simultaneously vibrate and move forward.

2. The Machine Handle is used to steer the compactor during operation.

3. If speed of engine is reduced to reduce speed over ground, output of machine will be reduced due to reduction of vibrations from the eccentric housing assembly

4. Manually guide the vibrating plate covering the working area. Continue with passes until the required compaction is produced.

NOTE

When compacting on slopes it is advisable to tie a rope to the compactor which can be held by another person to take the weight of the machine.

CARE DURING OPERATION

1. If the Air Filter becomes choked with sand or dust, the engine rpm. will drop. Clean the element.

2. If the engine runs at normal speed, but the compactor will not vibrate, check the V-belt tension and the centrifugal clutch for correct operation.

SHUT-DOWN PROCEDURE

Emergency Stop. To stop the engine in an emergency, turn the engine switch to the OFF position = O.

Normal Shut-down.

For normal shut-down use the following procedure:

1. Position the Throttle Control Lever to the "low" idle position = \clubsuit , and allow the engine to idle for two to three minutes.

2. The centrifugal clutch will automatically disengage and stop the vibration.

3. Stop the engine by turning the engine ON/OFF switch to the right to position **O**, Refer Figure 5-10.

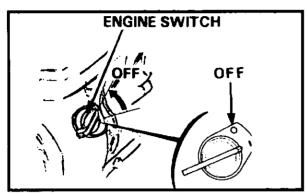


Figure 5-10 Engine Switch - OFF Position.

4. Close the fuel cock valve.

STORAGE

- 1. Drain the fuel tank and the carburetor.
- 2. Close the fuel cock valve.

3. Pull the handle on the recoil starter until it becomes hard to pull.

4. Clean the unit of all dirt, grease or other material.

5. Store in a clean, dry location. Use the cover if storage will be for a long time.

SECTION 6 - FUEL AND LUBRICATION SPECIFICATIONS

Contents	Page	Contents	Page
GENERAL INFORMATION	1	FUEL & LUBRICANT CAPACITIES	1

GENERAL INFORMATION

Lubrication is an essential part of preventive maintenance, affecting to a great extent the useful life of the unit. Different lubricants are needed and some components in the unit require more frequent lubrication than others.

Specific recommendations of brand and grade of lubricants are not made here due to regional availability, operating conditions, and the continual development of improved products. Where questions arise, refer to the requirements and specifications in the manufacturer's manual. All oil levels are to be checked with the machine parked on a level surface, and while the oil is cold, unless otherwise specified.

NOTE:

For detailed information on specific engine requirements it is essential to consult the Engine Manufacturer's Operation and Maintenance Manual supplied with the machine.

3.6 Liter 2.5 Liter 0.15 Liter
2.5 Liter
2.5 Liter
2.5 Liter
0.15 Lite
0.15 Liter
0.15 Liter
0.00
0.6 Liter
0.6 Liter
0.75 Liter
1.0 Liter
1.0 Ekci.

SECTION 7 - INITIAL BREAK-IN MAINTENANCE

Contents	Page	Contents
ENGINE OIL	1	ECCENTRIC HOUSING OIL

ENGINE OIL

Page

2

Drain the engine oil after the first 20 hours of operation. Fill with the correct amount of the recommended oil. Check the oil level with the oil check gauge, Refer Figure 7-1.

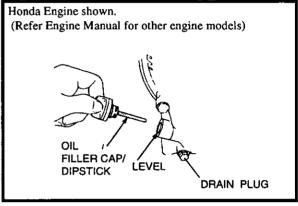


Figure 7-1 Engine Oil Level

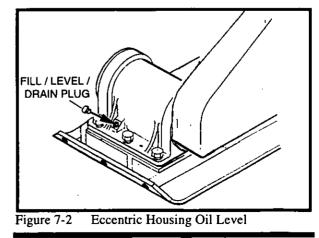
<u>NOTE:</u>

For detailed information on specific engine requirements it is essential to consult the Engine Manufacturer's Operation and Maintenance Manual supplied with the machine.

ECCENTRIC HOUSING OIL

Drain the Eccentric Housing Oil after the first 100 hours of operation. Remove the Fill/Level/Drain Plug, and place the machine so that the level plug hole is at lowest point to permit complete emptying of the housing..

Drain out the oil and fill with the correct amount of the recommended oil, Refer Section 6, Fuel and Lubrication Specifications.. Clean and replace the plug securely.



WARNING



Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRE-CAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.

Any new equipment requires an initial modification of the maintenance schedule to properly break-in the various systems and component units.

Perform this one time initial break-in maintenance after 20 to 100 hours of operation IN ADDITION TO the 4 hour, 40 hour and 100 hour maintenance tasks which are described on the following pages.

After this initial phase, the regular intervals should be followed. Refer Section 8 Routine Maintenance Schedule Chart..

A WARNING



Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

SECTION 8 - ROUTINE MAINTENANCE SCHEDULE

GENERAL MAINTENANCE INFORMATION

To prevent minor irregularities from developing into serious conditions, several other services or checks are recommended for the same intervals as the periodic lubrication.

The purpose of these services or checks are to ensure the uniterrupted and safe operation of a the unit by revealing the need for adjustment caused by normal wear.

- I. Prior to conducting any maintenance work, ensure that the following instructions are observed:
 - 1. Place the machine on a firm, level and clean working surface.
 - 2. Ensure the engine is shutdown and allowed to cool.
 - 3. Thoroughly wash all fittings, caps, plugs, etc., with a non-flammable, non-toxic cleaning solution before servicing, to prevent dirt from entering while performing the service.

II. Prior to conducting any maintenance work, ensure that the following instructions are observed:

- 1. When draining fluids, ensure that adequate sealable containers are available and that every care is taken to prevent spillage.
- 2. Always ensure waste fluids are disposed of in an enviromentally safe manner.
- 3. Always ensure used filters are stored in secure containers and disposed of in an environmentally safe manner.
- 4. Always ensure the Engine Manufacturer's Instruction Manual is followed for the particular engine installed in your machine..

The maintenance chart in this section shows those items requirieng regular service and the intervals at which they should be performed.

A regular service program should be geared to the items listed under each interval. These intervals are based on average operating conditions. In the event of extremely severe, dusty or wet operating conditions, more frequent maintenance than specified may be necessary.

	As required	4h	8h	40h	100h	500h.	Page Ref.
Torque up any loosebolted connections				[15-1
Check V-Belts (Refer Section 13)							13-1
Check Check Air cleaner connections and ducts							
for leaks							9-1
Clean/replace air cleaner elements							9-1
Clean the machine							-
Check and replace shock mounts that are torn or severely cracked							13-1
Check engine oil level (Dipstick marks)							9.1
Change engine oil							9.1
Check oil level in eccentric housing							11-1
Change eccentric housing oil							12-1
Check/clean cooling fins of cylinders, engine							-
Check valve clearance (Refer engine manual)						-	
· · · · · · · · · · · · · · · · · · ·							

MAINTENANCE SCHEDULE CHART

SECTION 9-4 HOUR OR DAILY ROUTINE MAINTENANCE

Contents	Page
ENGINE OIL	1
V-BELTS	1

WARNING



Improper maintenance can be hazardous.

Read and understand SECTION 1 - SAFETY PRE-CAUTIONS AND GUIDELINES before you perform any maintenance, service or repairs.





Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

ENGINE OIL

Check the engine oil level twice daily, (every 4 hours), Refer Figure 9-1.

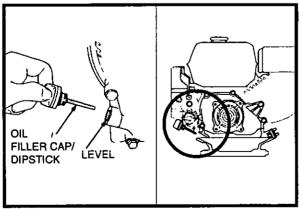


Figure 9-1 Engine Oil Level

Contents

Page

AIR CLEANER FILTER _____ 1

V-BELTS

Check the V-belts daily, Refer Figure 9-2.

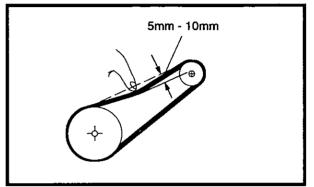
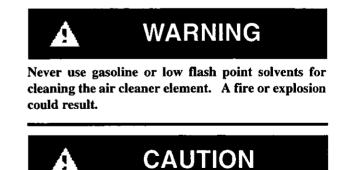


Figure 9-2 Checking belt tension

To check for correct tension, press belt down lightly with a finger at a point midway between the pulleys. The tension correct if the finger pressure causes a deflection no greater than 5 mm (3/16") to 10 mm (3/8"), Refer Fig. 9-2. Should adjustment be required refer to Section 13, Routine Adjustments.

AIR CLEANER FILTER

The air cleaner filter requires cleaning daily. A dirty air cleaner will restrict air flow to the carburettor. To prevent carburettor malfunction, service the air cleaner regularly. Service more frequently when operating in extremely dusty conditions.



Never run the engine without the air cleaner. Rapid engine wear will result.

The air cleaner used on Honda engine units is a dual element dry type. The following procedure is recommended..

Honda Engine Shown (Refer Engine Manual for other engine models) WING NUT PAPER ELEMENT FOAM ELEMENT

Figure 9-3 Dual Element Air Cleaner.

1. Remove the wing nut and the air cleaner cover. Remove the elements and separate them. Carefully check both elements for holes or tears and replace if damaged.

2. Foam element: Wash the element in a solution of household detergent and warm water, then rinse thoroughly, or wash in nonflammable or high flash point solvent. Allow the element to dry thoroughly.

Soak the element in clean engine oil and squeeze out the excess oil. The engine will smoke during initial start-up if too much oil is left in the foam.

3. Paper Element: Tap the element lightly several times on a hard surface to remove excess dirt, or blow compressed air through the filter from the inside out. Never try to brush the dirt off; brushing will force dirt into the fibres. Replace the element if it is excessively dirty.

<u>NOTE:</u>

For detailed information on specific engine requirements it is essential to consult the Engine Manufacturer's Operation and Maintenance Manual supplied with the machine.

SECTION 10 - 40 HOUR OR WEEKLY ROUTINE MAINTENANCE

Page

CHANGE ENGINE OIL _____ 1





Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

ENGINE OIL

Change the engine oil weekly, (every 40 hours), Refer Figure 10-1.

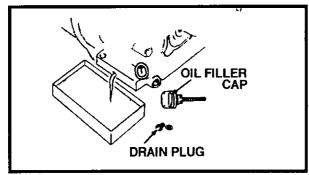


Figure 10-1. Engine Oil Change

1. Remove the oil filler cap and drain plug to drain the oil.

2. Install the drain plug, and tighten securely.

3. Refill with the recommended engine oil (Refer Section 6, FUEL AND LUBRICATION SPECIFICA-TIONS, and check the oil level.

4. Install the oil filler cap.

NOTE:

Refer to engine manufacturer's manual for details on specific engine models..

SECTION 11 - 6 MONTH OR 100 HOUR ROUTINE MAINTENANCE

Contents	Page
CHECK ECCENTRIC HOUSING OIL	1
SEDIMENT CUP CLEANING	1





Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

ECCENTRIC HOUSING OIL

With the machine on level surface, check the Eccentric Housing Oil level every 100 hours.

The oil level should reach the bottom of the threads of the oil level plug hole as shown in Figure 11-1.

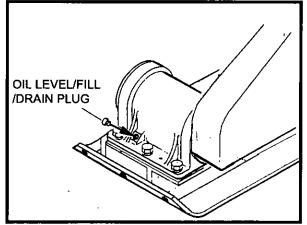


Figure 11-1 Eccentric Housing Oil Level

If the level is lower, add correct oil specification, refer SECTION 6, until level is correct..

Page

SPARK PLUG SERVICE _____ 1

SEDIMENT CUP CLEANING





• Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in the area.

• After installing the sediment cup, check for leaks, and make sure the area is dry before starting the engine.

1. Turn the fuel valve to OFF.

2. Remove the sediment cup and O-ring, refer Figure 11-2.

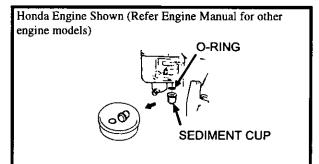


Figure 11-2 Sediment Cup and O-ring.

3. Wash both in nonflammable or high flash point solvent.

- 4. Dry them thoroughly and reinstall securely.
- 5. Turn the fuel valve ON and check for leaks.

SPARK PLUG SERVICE

To ensure proper engine operation, the spark plug must be properly gapped and free from deposits.

1. Remove the spark plug cap and use the proper size spark plug wrench to remove the spark plug.



If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.

SECTION 11 - 6 MONTH OR 100 HOUR ROUTINE MAINTENANCE

2. Visually inspect the spark plug. Discard the spark plug if there is apparent wear, or if the insulator is cracked or chipped. Clean the spark plug with wire brush if it is to be reused.

3. Measure the gap with a feeler gauge. Correct as necessary by bending the side electrode. The gap should be: 0.70 - 0.80mm (0.28 - 0.32 in.)

4. Check that the spark plug washer is in good condition and the thread the spark plug in by hand to prevent cross-threading.

5. After the spark plug is seated, tighten with a spark plug wrench to compress the washer. NOTE:

When installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. When reinstalling a used spark plug, tighten 1/8 - 1/4 turn after

SECTION 12 - 500 HOUR OR SEMI-ANNUAL ROUTINE MAINTENANCE

Contents	Page	Contents	Page
CHANGE ECCENTRIC HOUSING OIL	1	CHECK ENGINE VALVE CLEARANCE_	2

WARNING



Hot oil and/or components can burn.

Oil must be at normal operating temperature when draining.

Avoid contact with hot oil or components.

ECCENTRIC HOUSING OIL

OIL LEVEL/FILL /DRAIN PLUG

Figure 12-1 - Eccentric Housing Oil change.

After initial 100 hours oil change, the eccentric housing oil is changed every 500 hours.

1. Allow unit of warm up before draining.

2. Drain completely by position the machine with the drain port at lowest point, refer Figure 12-1.

3. Place the machine on level surface

4. Refill with oil of the correct specification, refer SECTION 6, FUEL AND LUBRICATION SPECIFI-CATIONS.. 5. The oil level is correct when it reaches the bottom of the threads of the oil level plug hole as shown in Figure 12-2.

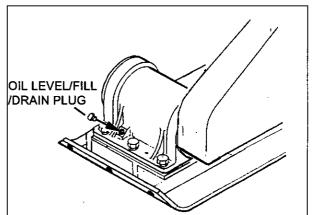


Figure 12-2 - Eccentric Housing Oil Level.

ENGINE VALVE CLEARANCE

Refer to Engine manual for instructions on engine adjustments such as valve clearance adjustment, every 500 hours.

SECTION 13 - ROUTINE ADJUSTMENTS

Contents	Page
V-BELT ADJUSTMENT	1
VIBRATION FREQUENCY CHECK	1

V-BELT ADJUSTMENT

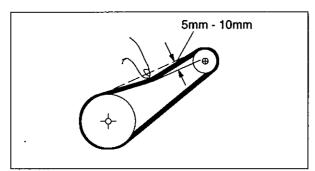


Figure 13-1 - V-Belt Adjustment.

• Tension of the belts.

The tension of the belts should be taut enough so that if the belts are pressed down lightly with a finger between the two pulleys, deflection would be approximately 5mm (3/ 16") to 10mm (3/8"), refer Figure 13-1

• Tensioning Method Procedure

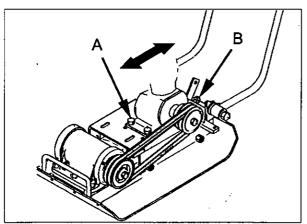


Figure 13-2 - V-Belt Alignment Adjustment.

1. First loosen the engine mounting bolts 'A', refer Figure 13-2.

2. Progressively move the engine backwards by turning the tensioning bolt 'B', until the required belt tension is produced.

3. With the required belt tension, retighten the engine mounting bolts.

Note:

If the engine is used with the belt tension too weak, the belt will not only slip but also the belt wear rate will be higher.

Contents	Page
ENGINE ADJUSTMENTS	

• V-belt Alignment Adjustment Procedure.

Note:

Misalignment of the V-belt in the pulles will cause accelerated belt wear.

1. After replacing the belts or checking belt tension, it is important to check the gap between the engine mounting plate and the machine body.

The gap should be equal at all four corners. This ensures that the engine shaft and the eccentric shaft run parallel.

2. If necessary adjust the space washers on the antivibration mounts until the required alignment is acheived.

VIBRATION FREQUENCY CHECK

The vibration frequency depends on the engine speed.

Check the engine speed with the throttle set on High Idle. The engine speed should be adjusted to the value stated in the Technical Specifications, Section 15.

If trouble is experience with excessive vibration, have the engine speed checked.

Prolonged running with excessive vibration will greatly reduce V-belt and vibration shock mount life.

Also for maximum compaction performance it is essential to maintain correct vibration frequency of the vibrating plate.

When running correctly the machine should 'hum' with very little vibration felt at the handle. In this condition the machine will travel forward, on the ground, with very little effort.

ENGINE ADJUSTMENTS.

Refer to the Engine Manufacturer's Manual for instructions on routine engine adjustments.

SECTION 14 - MISCELLANEOUS AND OPTIONAL EQUIPMENT

Contents	Page	Contents	Page
SOLID HANDLE OPTION SPLIT HANDLE OPTION	1 1	TRANSPORTER	1

SOLID HANDLE OPTION

Refer to SECTION 16, PARTS, Page 16-6 for installation details on this option. This may be retrofited to standard units or is factory supplied.

SPLIT HANDLE OPTION

Refer to SECTION 16, PARTS, Page 16-8 for installation details on this option. This may be retrofited to standard units or is factory supplied.

.

TRANSPORTER

Refer to SECTION 16, PARTS, Page 16-12 for installation details on this option. This may be retrofited to standard units or is factory supplied.

SECTION 15 - SPECIFICATIONS

Page	Contents	Page
1	ENGINE RPM SPECIFICATION	1
	0	

TECHNICAL SPECIFICATION

MODEL	HX-55
OPERATING WEIGHT:	
Petrol Engine units	110 kg
Diesel Engine units	148 kg
STATIC WEIGHT PER UNIT AREA:	
1400 series (HX55H Series)	1670 kg/m ²
Standard (HX55 Series)	441 kg/m ²
VIBRATION FREQUENCY	90 HZ
CENTRIFUGAL FORCE	21 kN
TRAVEL SPEED	22.5 m./min. (Depending on surface)
OVERALL LENGTH	1200 mm
OVERALL HEIGHT	1010 mm.
OVERALL WIDTH	550 mm
PLATE SIZE (Contact)	550 mm x 475 mm
*ENGINE (MAKE & MODEL)	Honda GX160
ENGINE HORSEPOWER RATING	4.1 kW @ 3600 rpm
FUEL TANK CAPACITY	3.6 Liters
FUEL	Unleaded Petrol
STARTING SYSTEM	Recoil Starter
* Optional engines are:	
ENGINE (MAKE & MODEL)	Robin EY20
ENGINE HORSEPOWER RATING	3.7 kW @ 3600 rpm
	5.5 kw e 5000 ipm
ENGINE (MAKE & MODEL)	Yanmar L40
ENGINE HORSEPOWER RATING	3 kW @ 3600 rpm
	Hatz E673
ENGINE (MAKE & MODEL)	
ENGINE HORSEPOWER RATING	4 kW @ 3600 rpm

ENGINE RPM SPECIFICATION

Note: For engine rpm settings, refer to the engine manual

.

SECTION 16 - PARTS MANUAL

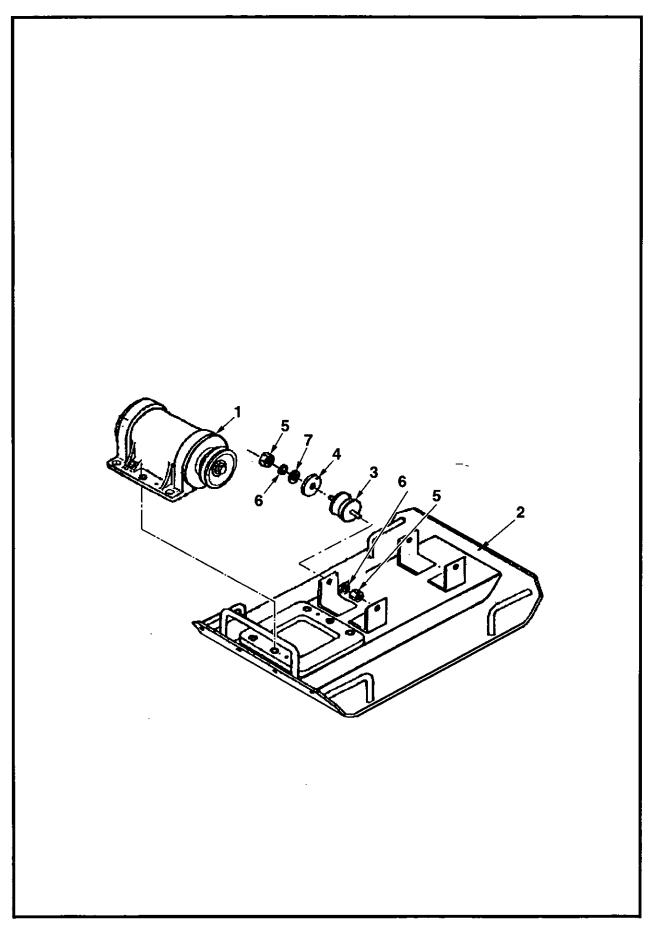
HX-55 SERIES PLATE COMPACTOR

Effective S/N. 1501

WHEN ORDERING REPLACEMENT PARTS

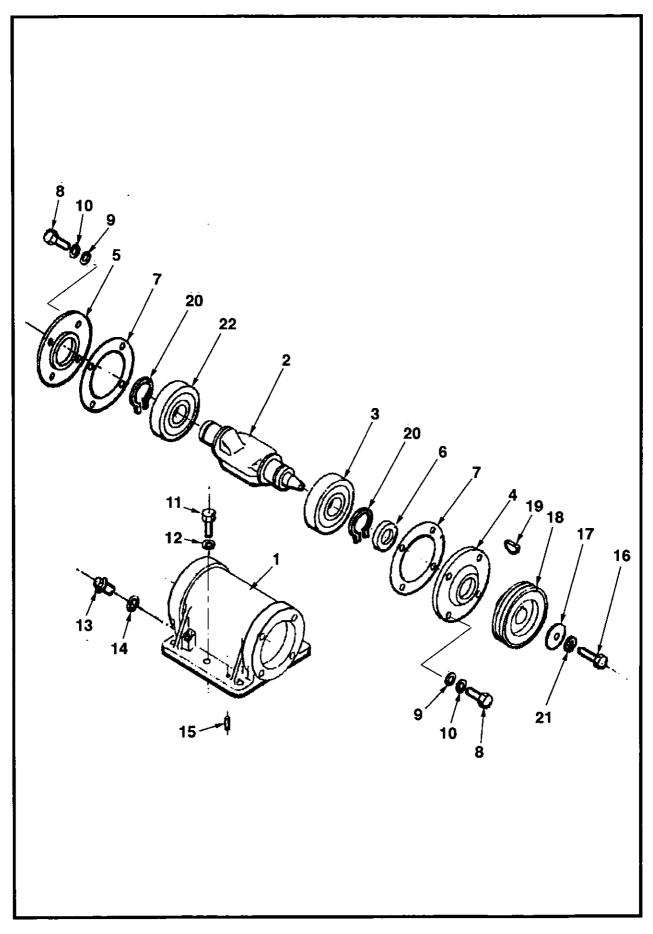
Find the appropriate parts from those listed among the illustration views and furnish with the parts order : Model, Serial Number, Part Number, Part Name and the required quantity. The number given in the Reqd.No. column indicates the quantity of parts used for one unit.

> Note: The parts listed in the parts book are subject to change without notice.



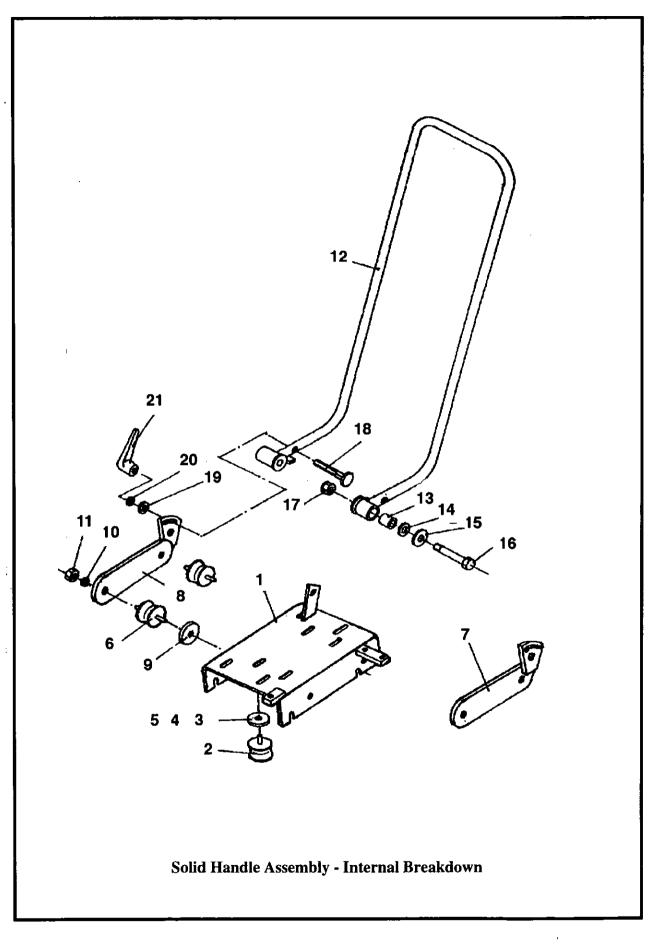
SECTION 16 - PARTS HX-55 SERIES ECCENTRIC & BASEPLATE ASSEMBLY

Item Comm. No. Description Qty. Spec. 1 10570547 Vibrator unit assembly 1 1 3 92991934 Anti-vibration mounting 4 1 4 10571529 Spacer 4 1 5 92304256 Nut 8 8 6 92329275 Spring washer 8 8 7 92061498 Washer 4 1	
2 10571859 Baseplate 1 3 92991934 Anti-vibration mounting 4 4 10571529 Spacer 4 5 92304526 Nut 8 6 92329275 Spring washer 8	
2 10571859 Baseplate 1 3 92991934 Anti-vibration mounting 4 4 10571529 Spacer 4 5 92304526 Nut 8 6 92329275 Spring washer 8	
3 92991934 Anti-vibration mounting 4 4 10571529 Spacer 4 5 92304526 Nut 8 6 92329275 Spring washer 8	
4 10571529 Spacer 4 5 92304526 Nut 8 6 92329275 Spring washer 8	
5 92304526 Nut 8 6 92329275 Spring washer 8	
7 92061498 Washer 4 1 1 1 1 1<	



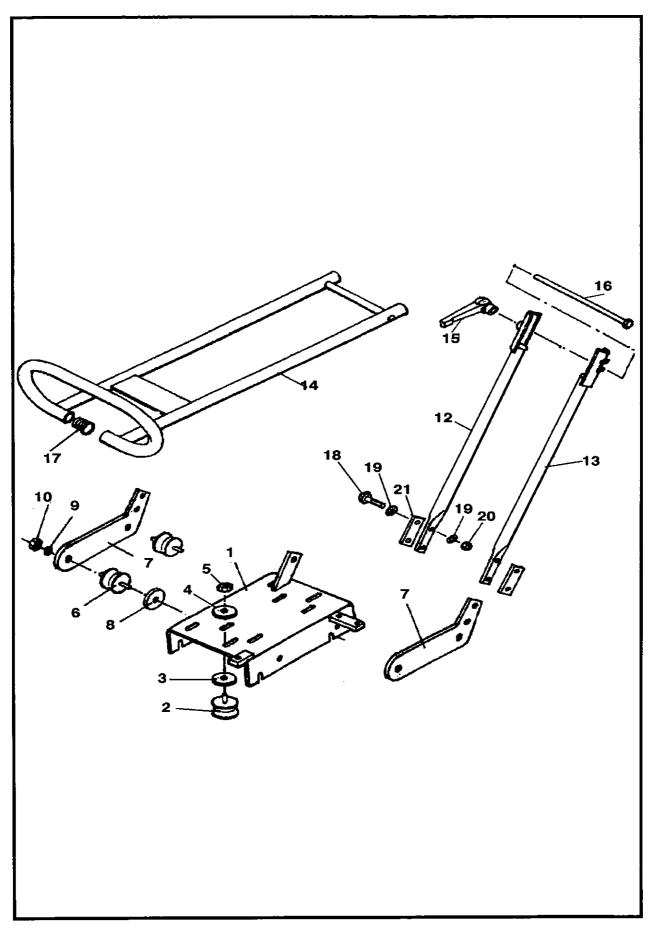
SECTION 16 - PARTS HX-55 SERIES ECCENTRIC ASSEMBLY - Internal Breakdown

Item	Comm. No.	Description	Qty.	Spec.
1	10571826	Housing	1	
2	10571875	Shaft	1	
3	10571792	Bearing	1	
4	10571834	Bearing cover 'A'	1	
5	10571842	Bearing cover 'B'	1	
6	10571800	Oil seal	1	
7	10570554	Gasket	2	
8	10570489	Setscrew	8	
9	10571743	Spring washer	8	
10	93450369	Washer	8	
11	10570612	Setscrew	8	
12	92304690	Spring washer	8	
13	92992122	oil drain plug	1	
14	92992130	Washer	1	
15	10570695	Spirol pin	2	
16	10570604	Setscrew	1	
17	10571909	Washer		
18	10571891	Pulley		
19 20	10571768	Key	12	
20 21	10571750 92329275	Circlip Spring washer	2	
21	10571784	Bearing	1	
	10571764	Dearing		
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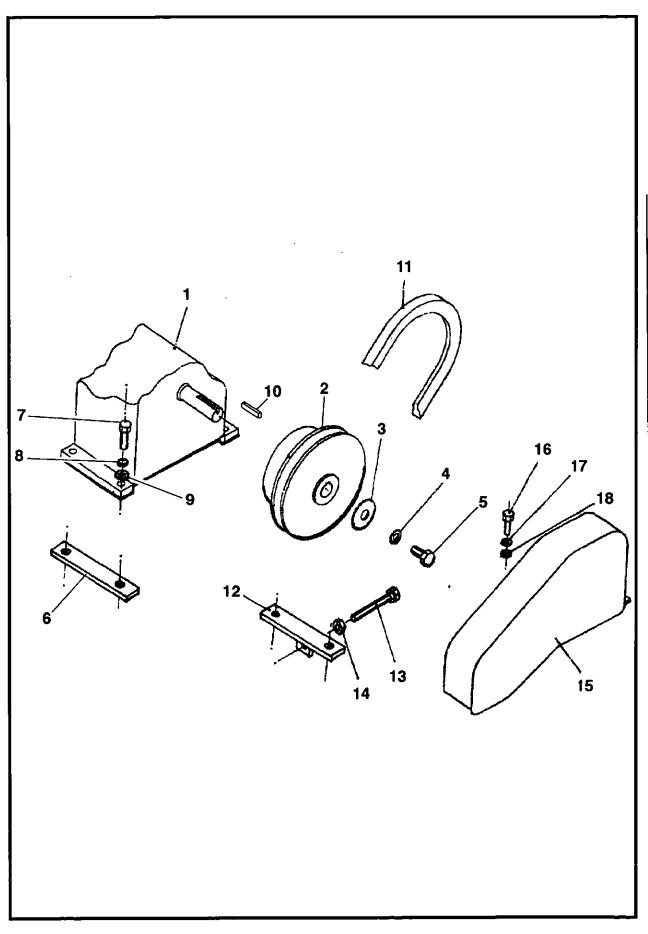
SECTION 16 - PARTS HX-55 SERIES SOLID HANDLE OPTION

Item	Comm. No.	Description	Qty.	Spec.
1	10570448	Bedplate	1	
2	92991942	Anti-Vibration damper		
3	10571529	Spacer	1	
4	92061498	Washer	1	
5	92304526	Nylocnut	1	
6	92991934	Anti vibration mounting	4	
7	10571933	Handle mount- LH	1	
8	10571941	Handle mount- RH	1	
9	10570471	Spacer	4	
10	92329275	Spring washer	8	
11	92304526	Nut	8	
12	10571925	Handle	1	
13	92991959	Anti vibration bush	2	
14	92991975	Spacer	2	
15	92991983	Spacer	2	
16	10570380	Handle Support Pin	2	
17	10571719	Nut	2	
18	10571701	Coach bolt	2	
19	92061498	Washer	22	
20 21	93450369 10571347	Spring washer Locking lever	2	
21	10371347	Locking level	2	
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SPLIT HANDLE OPTION

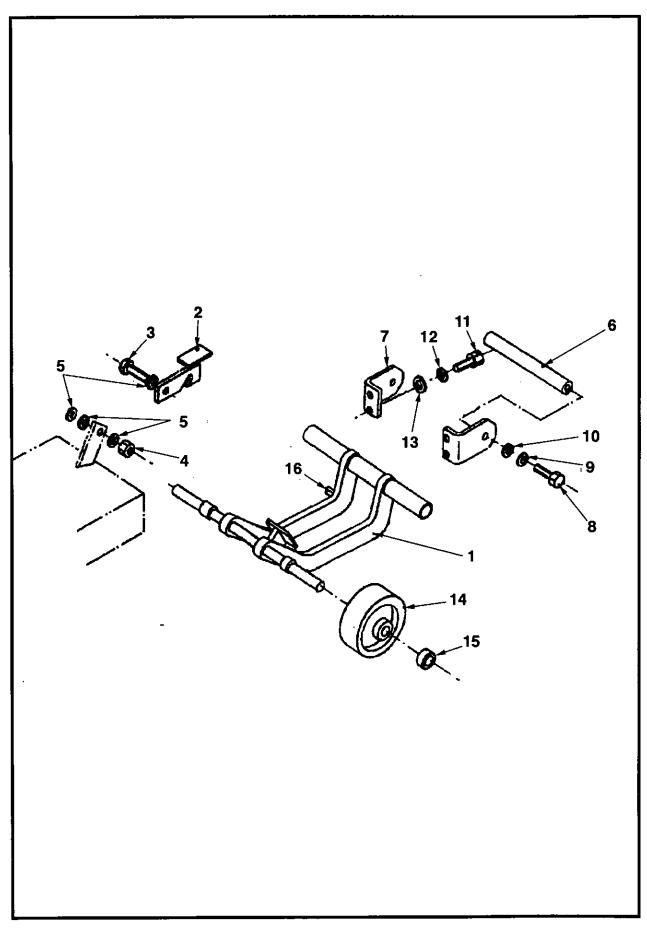
Item	Comm. No.	Description	Qty.	Spec.
. 1	10570448	Bedplate	1	
2	92991942	Anti-vibration damper	.	
3	10571529	Spacer	1	
4	92061498	Washer	1	
5	92304526	Nyloc nut	1	
6	92991934	Anti-vibration mounting	4	
° 7	10570604	Handle mounting plate	2	
8	10570471	Spacer	4	
9	93450369	Spring washer	8	
10	92304526	Nut	8	
	10570497	Split Handle Assembly	1	
12	10570489	Bottom leg 'A'	1	
13	10570620	Bottom leg 'B'	1	
14	10571693	Top handle	1	
15	10571347	Locking lever	1	
16	10570588	Tie rod	1	
17	10571388	Insert	2	
18	10570497	Setscrew	4	
19	92061498	Washer	4	
20	92304518	Nut	4	
21	10570596	Rubber mounting	2	
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ENGINE AND ECCENTRIC DRIVE ASSEMBLY

Item	Comm. No.	Description	Qty.	Spec.
1	10571818	Engine Honda	1	
2	10570208	Clutch	1	
3	10570679	Washer	1	
4	90105313	Spring washer	1	
5	10571735	Setscrew	1	
6	10571479	Engine mounting plate	2	
7	10570505	Setscrew	4	
8	90105313	Spring washer	4	
9	93450369	Washer	4	
10	10570703	Кеу	1	
11	10571776	Drive BeIt	2	
12	10571487	Belt tensioning Bracket	1	
13	10571917	Belt tensioner	1	
14	92304526	Nut	1	
15	10571867	Belt guard	1	
16	10570471	Setscrew	3	
17	90105313	Springwasher	3	
18	93450369	Washer	3	
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TRANSPORTER CART ASSEMBLY - OPTION

Item	Comm. No.	Description	Qty.	Spec.
-	10570505	Transporter Cart Assembly	1	
1	10571958	Transporter	1	
2	10571966	Release latch	1	
3	10570604	Setscrew	1	
4	92304526	Nyloc nut	1	
5	92061498	Washer	4	
6	10571974	Pivotshaft	1	
7	10571982	Bracket	2	
8	10571727	Setscrew	2	
9	92329275	Spring washer	6	
10	92061498	Washer	2	
11	10571727	Setscrew	4	
12	92329275	Spring washer	4	
13	92061498	Washer	4	
14	92994086	Wheel	2	
15	10571354	Shaft collar	2	
16	10570307	Dowel	1	
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