



---

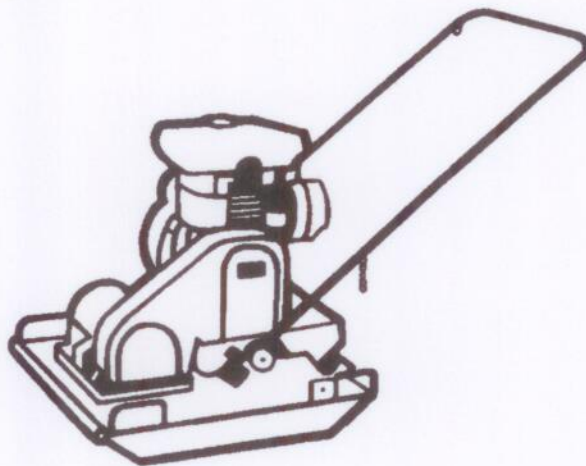
# VIBRATORY PLATE COMPACTOR

CP50 - CD50

---

## OPERATING INSTRUCTIONS

---



### **WARNING**

To reduce the risk of injury, all operators and maintenance personnel must read and understand these instructions before operating, changing accessories, or performing maintenance on Flextool power equipment. All possible situations cannot be covered in these instructions. Care must be exercised by everyone using, maintaining or working near this equipment.

## CONTENTS

Introduction .....	2
Applications .....	2
Functions and controls .....	2
Accessories .....	2
Hazards & risks .....	2-3
Operation .....	3
Care and preventive maintenance .....	3
Service .....	3
Specifications .....	4
Trouble shooting .....	4
Warranty .....	4
Spare parts and service .....	4

## INTRODUCTION

Thank you for your selection of Flextool equipment. Flextool have specialised in the design and manufacture of quality products since 1951.

We have taken care in the design, manufacture and testing of this product. It is covered by a six month warranty. Should service or spare parts be required, prompt and efficient service is available from our branches.

### General Safety Instructions for the Operation of Power Equipment

The goal of Flextool is to produce power equipment that helps the operator work safely and efficiently. The most important safety device for this or any tool is the operator. Care and good judgement are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important items, individuals should look for and obey Caution, Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities, limitations, potential hazards, how it operates, and how it stops.

## APPLICATIONS

Trench compaction	Earthworks
Road maintenance	Landscaping
Brickpaving	Driveway toppings

## FUNCTIONS AND CONTROLS

### Motor

The motor is controlled by an ON/OFF switch or push button which is mounted on the motor below the fuel tank.

The motor speed is controlled by a remote throttle lever which is mounted on the machine handle.

Honda and Robin motors are fitted with an oil alert device which will stop the motor or prevent starting when the crankcase oil level falls below a safe level

### Drive belt

Tension of the drive belt is adjustable. Loosen the four nuts on the bolts which secure the motor to the baseplate, Adjust the set screws which bear against the motor crankcase to achieve the required belt tension. Ensure that the four nuts and the set screw locknuts are tightened after adjustment.

## ACCESSORIES

Transport Trolley - facilitates handling. Hooks into the baseplate. Fitted with 200mm rubber tyres.

Water Tank Kit - for dust reduction, cement stabilised soil, bitumen hot mix.

## HAZARDS AND RISKS

NEVER allow any person to operate the machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY could result from improper or careless use of this machine

Plate compactors are heavy units and should be positioned by two people of appropriate strength. Using the lifting handles provided on the machine, along with correct lifting techniques.

### ! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place.

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not tip over, slide or fall while in operation or unattended.

DO NOT leave the machine in operation while it is unattended.

ENSURE that the walls of a trench are stable and will not collapse due to the action of the vibration, prior to commencing compaction.

ENSURE that the area to be compacted does not contain any "live" electrical cables, gas, water or communication services which may be damaged by the action of the vibration.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

DO NOT increase the governed no-load motor speed above 3,500 r/min. Any increase may result in personal injury and damage to the machine.

BE CAREFUL not to come in contact with the muffler when the engine is hot, since it can cause severe burns.

ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

### ! FIRE & EXPLOSION HAZARDS

PETROL is extremely flammable and explosive under certain conditions.

ENSURE that petrol is only stored in an approved storage container.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.

DO NOT over fill the fuel tank and avoid spilling petrol when refuelling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.

ENSURE that the fuel tank cap is securely fitted after refuelling.

### **! CHEMICAL HAZARDS**

DO NOT operate or refuel a petrol or diesel motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

### **! NOISE HAZARDS**

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure. As required by Occupational Health and Safety regulations.

### **PROTECTIVE CLOTHING**

ALWAYS wear approved hearing protection when working in a confined work space. Protective goggles and a dust mask should be worn when working in a dusty environment. Protective clothing and footwear may also be desirable when working with hot mix bitumen.

### **! ADDITIONAL HAZARDS**

Slip/Trip/Fall is a major cause of serious injury or death. Beware of uneven or slippery work surfaces.

Exercise care when working in the vicinity of unprotected holes or excavations

## **OPERATION**

The machine is best suited to the compaction of bituminous and granular materials e.g. granular soils, gravels and sands or mixtures of both, Cohesive soils such as silt and clay are best compacted using the impact force produced by a vibrating rammer.

Where possible the site should be graded and levelled before commencing compaction.

Correct moisture content in soil is vital to proper compaction. Water acts as a lubricant to help slide soil particles together. Too little moisture means inadequate compaction; too much moisture leaves water-filled voids that weaken the soil's load-bearing ability.

Compaction of dry materials will be facilitated by moistening with a water hose fitted with a sprinkler.

Excessive watering or water content will cause the machine to stall.

The optional water tank kit is recommended when the machine is used on bituminous surfaces as the water film prevents a build up of material on the underside of the plate.

Use unleaded grade petrol and ensure that the fuel is free from contamination.

The vibratory motion provides a self propelling action. Position the handle at the opposite end of the machine to the vibrator.

Start the motor using the recoil starter. (If the motor is fitted with an on/off switch this must first be turned to ON before starting.)

For more information on starting and correct operating procedures of the motor, refer to the motor operation manual supplied with the unit.

Increase the motor speed to the maximum setting using the hand throttle lever, before commencing compacting.

The machine should be controlled by grasping the handle with both hands and applying restraint to control the forward motion,

Steer the machine by moving the handle sideways to the right or left.

ALWAYS maintain good footing so that you do not slip and loose control when starting or operating the machine

If the optional water tank is fitted, the flow rate can be controlled by adjusting the cock in the supply hose to the sprinkler bar.

## **CARE AND PREVENTIVE MAINTENANCE**

Check the oil level in the motor crankcase daily.

Check the vibrator oil level weekly.

Inspect the rubber anti vibration mounts for wear or deterioration.

If the optional water tank is fitted inspect the water hose and its connections to ensure that they do not leak.

Clean the underside of the plate regularly to prevent a build up of material.

## **SERVICE**

Change the oil in the motor crankcase regularly to minimise wear.

When servicing the vibrator replace the oil with 100mL of 20W-40 motor oil.

Inspect, clean and/or replace the motor air cleaner regularly, particularly when operating in a dusty environment.

Inspect, clean and/or replace the spark plug regularly

Check all fasteners for tightness as the machine is subject to vibration.

Check vee belt tension, wear and that it is running true, adjust or replace as required.

## SPECIFICATIONS

### MOTOR

CP50 -	Honda GX160	4.1 kW output
	Robin EY20	3.7kW output
CD50 -	Yanmar Diesel	3.5kW output

**Governed speed -** 3,500 r/min

### WEIGHT

CP50 -	86kg
CD50 -	87kg

### SHIPPING

Size (l x w x h) - 630 mm x 495 mm x 1165 mm

### DRIVE BELTS

1 x 'A' section vee belt

### VIBRATOR

Frequency -	5,800 vibrations/min
Centrifugal force -	15.2 kN

### BEARINGS

The following bearings are sealed:  
Centrifugal clutch - grease lubricated  
Vibrator - oil bath lubricated

### FINISH

The machine is finished in gold equipment enamel, the handle in black baked enamel. Exposed metal surfaces are zinc electroplated for corrosion protection.

## WARRANTY

FLEXTOOL products are covered by warranty for a period of six (6) months from the date of purchase against defects in material or workmanship provided that:

- The product concerned has been operated and maintained in accordance with the operating instructions.
- Has not been damaged by accident, misuse or abuse.
- Has not been tampered with or repaired by any unauthorised person.

The owner is responsible for the cost of transportation to and from the authorised repairer and the unit is at the owners risk while in transit to and from the repairer.

## SPARE PARTS AND SERVICE

### Flextool (Aust.) Pty. Ltd.

A.C.N. 004 502 961

#### Melbourne

**Head Office** P O Box 1102  
191 Wellington Street  
Collingwood Vic. 3066  
Australia

**Tel:** (03) 9419 6300  
**Fax:** (03) 9417 1391

#### Sydney

29 Crescent Street  
Rozelle N.S.W. 2039

**Tel:** (02) 9818 5722  
**Fax:** (02) 9818 3276

#### Brisbane

17 Ross Street  
Newstead Qld. 4006

**Tel:** (07) 3252 2306  
**Fax:** (07) 3252 5359

#### Adelaide

68 Daws Road  
Edwardstown S.A. 5039

**Tel:** (08) 8374 4300  
**Fax:** (08) 8374 4194

#### Perth

3 / 47 Tate Street  
Bentley W.A. 6102

**Tel:** (08) 9451 2077  
**Fax:** (08) 9350 5011

#### Free Call:

Outside the above metropolitan areas.

**Tel:** 1 800 801 108

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Motor will not start.	<ul style="list-style-type: none"> <li>• Check the ON/OFF switch to ensure that it is switched 'ON'.</li> <li>• Check the fuel supply.</li> <li>• If a Honda or Robin motor is fitted check the crankcase oil level as an oil sensor device is fitted to these motors which prevents starting and stops the motor when the oil level is low.</li> <li>• Ensure the spark plug ignition lead is connected</li> <li>• Check the carburettor jet and bowl to ensure they are clean.</li> </ul>
Motor stops.	<ul style="list-style-type: none"> <li>• Check the fuel supply.</li> <li>• Check that the fuel cock is turned on.</li> <li>• Check the condition of the air filter.</li> </ul>
Petrol Motor lacks power.	<ul style="list-style-type: none"> <li>• Check the condition of the air filter.</li> <li>• Check the condition of the spark plug.</li> </ul>
Water flow stops	<ul style="list-style-type: none"> <li>• Insufficient water.</li> <li>• Blockage in water hose or sprinkler bar.</li> </ul>
Insufficient vibration	<ul style="list-style-type: none"> <li>• Check for a slipping or a missing vee belt.</li> <li>• Check that the motor governed speed is 3,500 r/min.</li> </ul>
Machine is not moving freely	<ul style="list-style-type: none"> <li>• Check the underside of the plate for a build up of material</li> </ul>