



Operator's Manual

Plate Compactor

CP10 Series

CP15 Series



Manufacturer

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Original instructions

This Operator's Manual presents the original instructions. The original language of the Operator's Manual is English.

Foreword

This manual contains important instructions for this machine. These instructions must be followed during installation, operation, and maintenance of the machines.

This manual provides information and procedures to safely operate. For your own safety and to reduce the risk of injury, carefully read, understand, and observe all instructions described in this manual.

We reserves the right to change any of the contents in this manual without notice.

Warranty

Our products are covered by warranty for a period of twelve (12) 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 unauthorized person.

Any evidence of failure to meet these conditions may result in a denial of the warranty claim.

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

Impact damage is not covered under warranty. Clutches are not covered under any warranty.

Engines are officially guaranteed by engine manufacturer. Please refer to the annex for engine warranty.

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1. SAFETY INFORMATION

1.1 Operating Safety

- 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;
- Plates 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.
- Do not operate the machine unless all protective guards are in place.
- Keep handles 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 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 the repairs to the motor and machine are carried out by competent personnel.
- 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.
- 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.
- 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.
- Slip/Trip/Fall is a major cause of serious injury or death. Be aware of uneven or slippery work surfaces.
- Exercise care when working in the vicinity of unprotected holes or excavations.

1.2 Operator Safety while using Internal Combustion Engines

- Petrol is extremely flammable and explosive under certain conditions;
- Ensure that the 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 refueling .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 refueling.

1.3 Service Safety





- Read and understand the instructions contained in the manual delivered with the machine before servicing or maintaining
- Familiarize yourself with the location and proper use of all controls and safety devices before servicing or maintaining.
- Contact local dealer for additional training if necessary.
- Do not allow improperly trained people to service or maintain the machine. Personnel servicing or maintaining the machine must be familiar with the associated potential risks and hazards.
- Do not attempt to clean or service the machine while it is running. Rotating parts can cause severe injury.
- Do not remove blades while the machine is hanging overhead.
- Disconnect the spark plug on machines equipped with gasoline engines, before servicing, to avoid accidental start-up.
- When replacement parts are required for this machine, use only our replacement parts or those parts equivalent to the original in all types of specifications, such as physical dimensions, type, strength, and material.



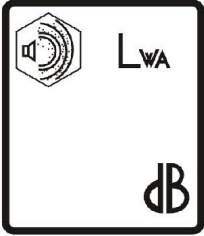

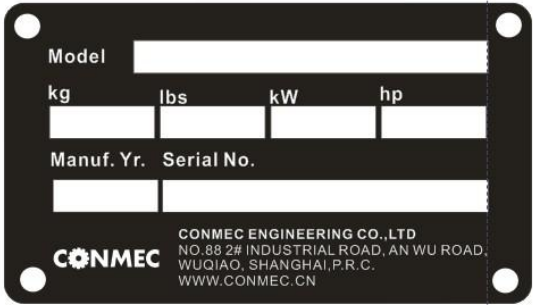
1.4 Label Locations



1.5 Label Meanings

Our machines use international pictorial labels where needed. These labels are described below:

Label	Meaning
	<p>DANGER! Engines emit carbon monoxide; operate only in well-ventilated area. Read the Operator's Manual for machine information. No sparks, flames, or burning objects near the machine. Shut off the engine before refueling. Use only clean, filtered unleaded gasoline.</p>
	<p>NOTICE! Throttle control lever: Turtle = Idle or Slow Rabbit = Full or Fast</p>
	<p>CAUTION! Read and understand the supplied Operator's Manual before operating the machine. Failure to do so increase the risk of injury to yourself or others.</p>
	<p>WARNING! Always wear hearing and eye protection when operating this machine.</p>

Label	Meaning
	<p>WARNING! Hand injury if caught in moving belt. Always replace belt guard.</p>
	<p>CAUTION! Lifting point.</p>
	<p>Guaranteed sound power level in dB(A).</p>
	<p>WARNING! Hot surface!</p>
	<p>A nameplate listing the model number and serial number is attached to each unit. Please record the information found on this plate so it will be available if the nameplate lost or damaged. When requesting service information, the serial number should be specified of the unit.</p>

2. OPERATION

2.1 Application

The machine must only be used for the following purposes:

- Compaction of soils.
- Compaction of asphalt.
- Shaking in of paving stones.

The machine may not be used for the following purposes:

- Compaction of intensely cohesive soils.
- Compaction of frozen soils.
- Compaction of hard, non-compactable soils.
- Compaction of soils that are not capable of bearing a load.

Its proper use also includes the observance of all instructions contained in this operator's manual as well as complying with the required service and maintenance instructions.

Any other use is regarded as improper. Any damage resulting from improper use will void the warranty and the liability on behalf of the manufacturer. The operator assumes full responsibility.

2.2 Pre start-up inspection

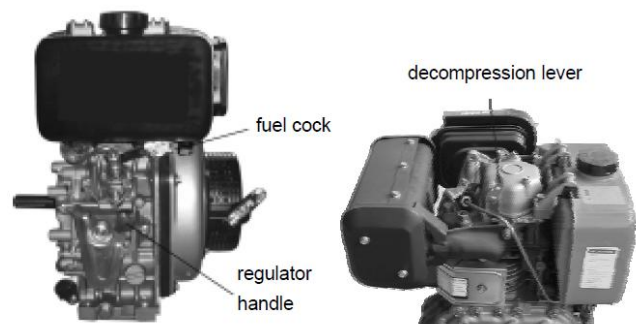
The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use. Whichever is first. If any fault is discovered, the compactor must not be used until the fault is rectified.

1. Thoroughly inspect the compactor for signs of damage. Check components are present and secure. Pay special attention to the belt drive safety guard fitted between the engine and the vibrator unit.
2. Check the engine oil level and top up as necessary
3. Check the engine fuel level and top up as necessary
4. Check for fuel and oil leaks

2.3 Start and stop Procedure

Diesel Engine

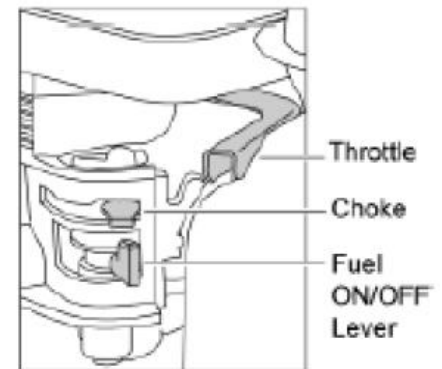
1. Open the fuel cock.
2. Turn the governor lever to "STARTING" position.
3. Hold the recoil starter handle.
4. Pull the starter handle until you feel the resistance, then return handle slowly.
5. Press the decompression lever to "Non-compression" position. The lever will return back automatically after the engine started.
6. Hold the recoil starter handle with two hands and pull it hardly.
7. It is difficult to start the engine at cold weather. Remove the rubber plug on the cylinder head and fill about 2CC engine oil before starting.
8. To stop the engine, set the governor lever to the low speed position, then run the engine at zero load five minutes.



9. Set the governor lever to the "STOP" position. Do not stop the engine with the decompression lever.
10. Set the fuel cock the "OFF" position.
11. Pull the recoil starter handles slowly, until you feel resistance. (At this point, the decompression just begins and intake/exhaust valves are both closed, thus the cylinder can be prevented from rust.)

Petrol Engine

1. Open the fuel tap by moving the fuel ON/OFF lever fully to the right.
2. If starting the engine from cold, set the choke ON by moving the choke lever fully to the left. If restarting a warm engine, the choke is usually not required. However, if the engine has cooled to a degree, partial choke may be required.
3. Turn the engine ON/OFF switch clockwise to the "1" position
4. Set the throttle to the idle position by moving the throttle lever fully to the right. Do not start the engine on full throttle, As the compactor will vibrate as soon as the engine starts.
5. Taking a firm hold of the control handle with one hand, grasp the recoil starter handle with the other. Pull the recoil starter until engine resistance is felt. Then let starter return.
6. Taking care not to pull starter's cope fully out, pull the starter handle briskly.
7. Repeat until the engine fires.
8. Once the engine fires gradually, set the choke lever to the OFF position by moving it to the right.
9. If the engine fails to fire after several attempts, follow the trouble-shooting guide on page 9.
10. To stop the engine, set the throttle to idle and turn the engine ON/OFF switch anticlockwise to the "0" position.
11. Turn the fuel off



3. MAINTENANCE

3.1 Periodic Maintenance Schedule

To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with following:

ITEM	Hours of Operation
(Starting check)	Every 8 hours (every day)
Loosened or lost screws	Every 8 hours (every day)
Damage of any part	Every 8 hours (every day)
Function of controlling system part	Every 8 hours (every day)
Remove soil and clean the bottom of compaction plate	Every 8 hours (every day)
Vibrator oil check	Every 100 hours
Vibrator oil replacement	Every 100 hours
V-belt (Clutch) Check	Every 100 hours
Check for leakage of fuel or oil	Every 8 hours (every day)
Check engine oil.	Every 8 hours (every day)
Tightness of fastening Threads	Every 8 hours (every day)
Engine oil check and replenishment	Every 8 hours (every day) (Replenish to specified Max.Level)
Engine oil replenishment	At first 20 hours, then every 100 hours
Air cleaner cleaning	Every 50 hours

NOTE: These inspection intervals are for operation under normal conditions. Adjust your inspection intervals based on the number hours plate compactor is in use, and particular working conditions.

Fuel piping and connections should be replaced every 2 years.

3.2 Tightening torque

Check for loose screws including tightness. See below (Tightening torque), for retightening.

Material	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm
4T	70	150	300	500	750	1100	1400	2000
6-8T	100	250	500	800	1300	2000	2700	3800
11T	150	400	800	1200	2000	2900	4200	5600
	100(6mm) 300-350(8mm) 650-700(10mm)							
(In case counter-part is of aluminum)								
(Threads in use with this machine are all right handed)								
Material and quality of material is marked on each bolt, and screw.								

3.3 Changing Vibrator Oil / Vibrator Grease

When changing the vibrator oil, remove the drain plug located at the bottom-right of the vibrator, and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot. For CP10 series, CP15 series, replace the oil with 200ML of 10W-30 motor oil, check and regrease exciter every 500 hours of operation, use SHELL ALVANIA R3 grease or equivalent.

3.4 Air Filter

1. The air filter element should be cleaned because a clogged air cleaner can cause poor engine starting, lack of power and shorten engine life substantially.
2. To clean or replace air filter loosen the wing nut on the air filter housing (Figure 1), remove the cover and take out air filter cartridge. If only cleaning of the air filter is desired blow through the air filter cartridge from the inside, moving a jet of dry compressed air up and down until all dust is removed.

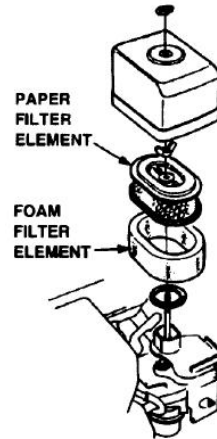


Figure 1 Air Filter

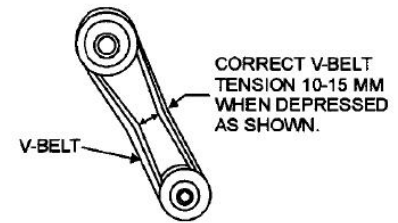


Figure 2. V-Belt Tension

NOTE: NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand gets caught between the V-belt and the clutch. Always use safety gloves.

3.5 Checking and Replacing the V-belt and Clutch

After 200 hours of operation, remove the upper belt cover to check the V-belt tension (Figure 2). Tension is proper if the belt bends about 10mm when depressed strongly with finger between shafts. Loose or worn V-belts reduce power transmission efficiency, cause weak compaction and reduces the life of the belt itself.

NOTE: Whenever the compactor's vibration becomes weak or lost during normal operation regardless of operation hours, check the V-belt and clutch immediately.

3.6 Replacing and reinstalling the V-belt

1. Remove the upper and lower belt covers, Engage an offset wrench (13mm) or the like to vibrator pulley (Lower) fastening bolt. Engage waste cloth or the like at midway of V-belt on the left side and while pulling it back strongly, rotate the offset wrench clockwise so that the V-belt will come off.
2. Engage V-belt to the lower vibrator pulley and push the V-belt to the left side of upper clutch and, in the same manner as in removal, rotate offset wrench clockwise so that the V-belt goes back on.

3.7 Checking Clutch

Check the clutch simultaneously with V-belt checking. With belt removed, check outer drum of the clutch for seizure and "V" groove for wear or damage with your eyes. Clean the "V" groove as necessary. Wear of lining or shoe should be checked with running check. If the shoe is worn, power Transmission becomes deficient and slipping will result.

3.8 Lifting and Transporting the machine

3.8.1 Lifting the Machine

When lifting the machine, observe the following instructions:

- Designate a skilled person to guide you for the lifting procedure.
- You must be able to see or hear this person.
- Use only suitable and certified hoisting gear, lifting tackle and load-bearing equipment with sufficient lifting capacities.
- Only use the attachment points described in the operator's manual.
- Attach the machine securely to the hoisting gear.
- Ensure that no one is nearby or under the machine.
- Do not climb onto the machine.

3.8.2 Transporting the Machine

- Secure the machine on the transport device against tilting, falling or slipping.
- Only use the lashing points listed in the operating instructions.
- Also observe the country-specific regulations, standards and guidelines.
- Trolley wheel (if equipped) as optional is used for short distance transportation.

3.9 Trouble Shooting

SYMPTOM	POSSIBLE CAUSES	REMEDY
Travel Speed too low, and vibration is weak	Engine speed too low?	Set engine speed to correct RPM.
	Clutch slips?	Check or replace clutch
	V-belt slips?	Adjust or replace V-belt
	Excessive oil in vibration?	Drain excess oil and fill to proper level
	Malfunction in vibrator housing?	Check eccentric, gears and counter weights
	Bearing Failure?	Replace Bearing
	Insufficient engine output?	Check engine, compression etc.

Engine Trouble Shooting

SYMPTOM	CAUSE	REMEDY
Engine will not start	Fuel tank empty.	Refill with fuel.
	Fuel tap closed.	Open.
	Air filter dirty.	Clean.
	Engine switch set to "OFF".	Set the engine switch to "ON".
	Recoil starter defective.	Repair.
	Oil level warning system turned off.	Top off with engine oil.

4 TECHNICAL DATE

4.1 Technical Specification

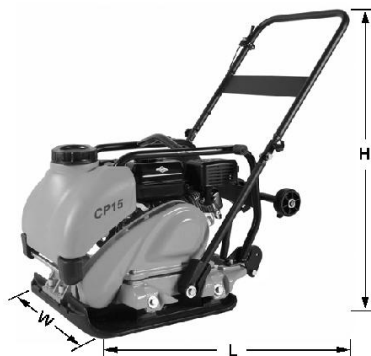
Model	CP10-2	CP10-3	CP10-4
Engine type	Chinese Petrol Engine	Robin EX13	Honda GX160
Power kw(hp)	4.0(5.5)	3.2(4.2)	4.0(5.5)
Operating weight kg(lb)	59(129)	59(129)	59(129)
Frequency rpm	5600		
Centrifugal Force kN	10.5		
Travel Speed cm/s(in/s)	40(16)		
Compaction Depth cm(in)	20(8)		
Efficiency m ² /hr(ft ² /hr)	450(4800)		
Plate size cm(in)	50*36(20*14)		
Water Tank Capacity L	10		

Model	CP15-1	CP15-2	CP15-3	CP15-4
Engine type	Chinese Diesel KM170F	Chinese Petrol Engine	Robin EX17	Honda GX160
Power kw(hp)	3.1(4.2)	4.8(6.5)	4.2(5.7)	4.0(5.5)
Operating weight kg(lb)	107(235)	97(212)	97(212)	97(212)
Frequency rpm	5500			
Centrifugal Force kN	13			
Travel Speed cm/s(in/s)	40(16)			
Compaction Depth cm(in)	30(12)			
Efficiency m ² /hr(ft ² /hr)	660(7100)			
Plate size cm(in)	53*50(21*20)			
Water Tank Capacity L	12			

4.2 Dimension (LXWXH) :

CP10 Series: 90cm x 30cm x 88cm

CP15 Series: 110cm x 83cm x 50cm



4.3 Acoustic Noise (According to 2000/14/EC)

Model	CP15-1	CP10-2/3/4 CP15-2/3/4
The sound pressure level at operator's location (L _{pA})	105dB(A)	102.2 dB(A)
The guaranteed sound power level (L _{WA})	108 dB(A)	105.2 dB(A)

4.4 Hand-Arm-Vibration (According to ISO 2631 and EN 1033):4-9 m/s²

**EC DECLARATION OF CONFORMITY
CE-KONFORMITÄTSERKLÄRUNG
DECLARACIÓN DE CONFORMIDAD DE LA CE
DÉCLARATION DE CONFORMITÉ C.E.**

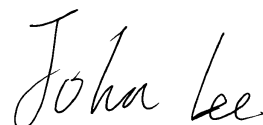
**CONMEC ENGINEERING CO., LTD
NO.88, 2# INDUSTRIAL AVENUE, AN WU ROAD, WU QIAO COUNTY,
FENG XIAN, SHANGHAI, P.R.C**

hereby certifies that the construction equipment specified hereunder /bescheinigt, da. das Bauger.t/
certifica que la máquina de construcción/atteste que le matériel :

1. Category / Art / Categoría / Catégorie:
Plate Compactor
2. Type / Typ / Tipo / Type:
CP10-2, CP10-3, CP10-4
CP15-1, CP15-2, CP15-3, CP15-4

has been produced in accordance with the following standards:/in übereinstimmung mit folgenden
Richtlinien hergestellt worden ist:/ha sido fabricado en conformidad con las siguientes normas: / a été
produit conformément aux dispositions des directives européennes ci-après :

2005/88/EC
2006/42/EC
2004/108/EC/EN55012:2007
EN500-1
EN500-4



03.09.13

Date / Datum / Fecha / Date

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