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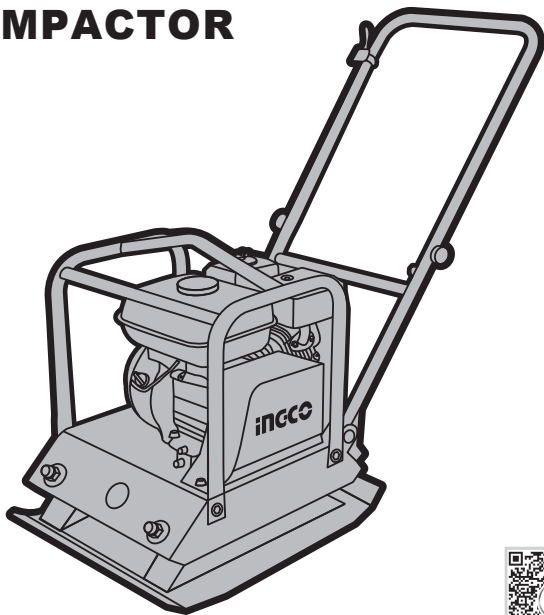
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ingco

www.ingco.com

**PRODUCT
MANUAL**

GASOLINE PLATE COMPACTOR



GCP100-1 GCP100-2 GCP100-2E



SCAN FOR VIDEO

Original Instructions

GENERAL SAFETY WARNINGS

Thank you for your selection of our equipment.

We have taken care in the design, manufacture and testing of this product. 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 Our factory's goal 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. We have no duty if person don't operate as instruction said.

⚠ WARNING

This safety alert symbol identifies important safety messages throughout this manual and on the machine.

When you see this symbol, carefully read the message that follows. Your safety is at stake!

Foreword

It is important to read this manual carefully so that you will fully understand the operational characteristics and performance of the plate compactor. Proper maintenance procedures will insure long life and top performance of the unit.

Safety

This section outlines basic safety procedures that apply to the operation, maintenance and adjustment of the plate compactor. This unit is designed as a powerful, productive machine that should be operated with respect and caution.

Misuse or carelessness can result in serious injury or property damage. Or both. Safety precautions must be observed at all times.

Operator qualifications

Before operating this equipment, an individual should read this manual. Whenever possible, he should be shown how to operate the unit by an experienced operator. Inexperience is hazardous in operating any machine or attachment. Trial and error are not the way to become familiar with a piece of equipment. This is expensive, cuts equipment life and can create machine should not be left unattended when operating.

General safety

⚠ CAUTION

Protection required. Wear hard hat, shatterproof glasses, steel toed boots and other protective devices required by job conditions. Avoid jewelry or loose clothing. These many catches on controls or in moving parts and cause serious injury.

Starting safety

⚠ CAUTION

Poisonous fumes. Start and operate only in well ventilated area. Breathing exhaust gases can result in sickness or death.

Servicing Safety

⚠ CAUTION

Flammable liquid. Stop engine and do not smoke or allow work in immediate area when refueling. Fire or explosion could result from flames or sparks.

Moving parts. Shutdown engine before performing. Service or maintenance. Contact with moving parts can cause serious injury.

Flight temperature. Allow machine and engine to cool before performing service or maintenance. Contact with hot components can cause serious burns.

Engine

See engine operations manual

Shutdown

Emergency shutdown

Move throttle lever to "OFF" position and also turn stop switch to "OFF".

Normal shutdown

Move throttle lever quickly from "ON" to "OFF" and run engine for 3 to 5 minutes at low speed. After engine cools, turn stop switch to "OFF" position, close fuel shutoff valve.

ADDITIONAL SAFETY WARNING

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 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 muffler when the engine is hot, since it can cause severe burns.

Ensure that repairs to the motor and machine are carried out by 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 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.

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.

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.

INTENDED USE

Plate compactor is the machine that compacts the ground and it intends to make the surface smooth, by transmitting vibration through vibrating plate, which power generated from single motor in vibrator case This machine is suitable for making the ground surface smooth, such as leveling the soil and beaching, finishing the asphalt paving.

Applications as followings:

Trench compaction, Earth works, Road maintenance, Landscaping, Brick paving, Driveway toppings.

Warning for incorrect application and abuse!

This machine is hard to move forward on a soil with much water (especially clay soil). It is not suitable for such application. This machine is difficult to level a ground include big stones due to insufficient compacting force. Plate compactor is mainly applied for compacting surface smooth and it is not effective for jobs that requires heavy compaction. In case of compacting ground deeply into lower layer, it is recommended to use. Tamping Rammer, Vibro Compactor and Vibration Roller which compacting force is rather effective. Please use this compactor for compacting surface on soil, sediment, sand, beaching and asphalt. It is not recommended for use this machine for the other applications.

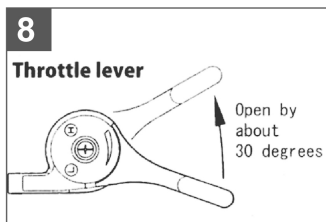
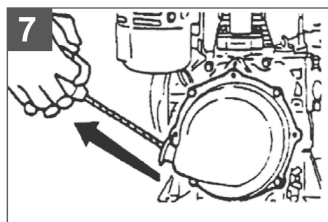
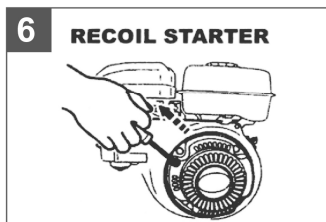
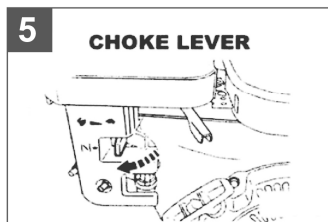
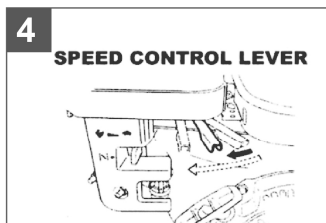
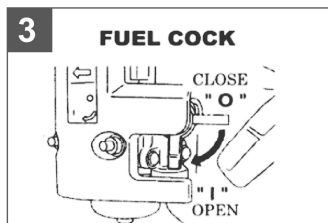
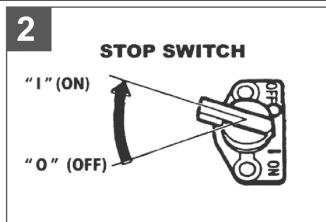
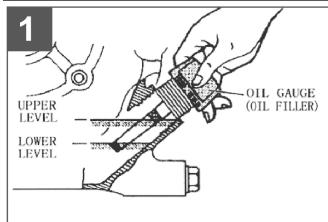
SPECIFICATIONS

Technical specifications

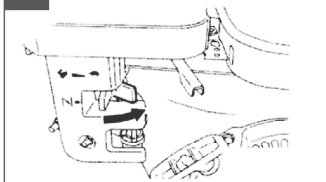
Model	GCP100-1	GCP100-2, GCP100-2E
Engine type	Air-cooled, 4-stroke, single cylinder	Air-cooled, 4-stroke, single cylinder
Engine model	Petrol Honda GX160	Petrol INGCO
Power	4.0kW (5.5HP)	4.8kW (6.5HP)
Operation mass	90kg (198Lbs)	90kg (198Lbs)
Frequency	4200vpm	4200vpm
Centrifugal force	15kN	15kN
Compaction depth	30cm (12")	30cm (12")
Travel speed	45 cm/s (18 in/s)	45 cm/s (18 in/s)
Efficiency	660 m ² /hr (7100 ft ² /hr)	660 m ² /hr (7100 ft ² /hr)
Plate Size cm(in)	56x44 (22x17)	56x44 (22x17)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

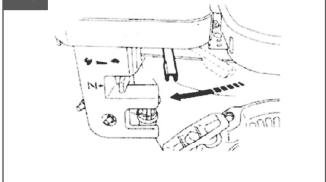
OPERATION PICTURE



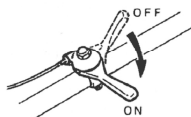
9 CHOKE LEVER



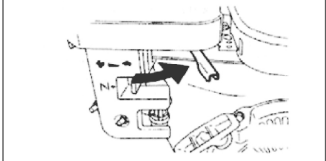
10 SPEED CONTROL LEVER



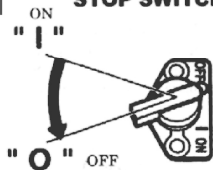
11 SPEED CONTROL LEVER at handle



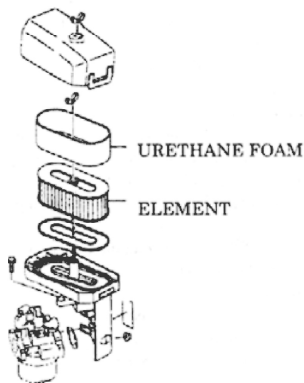
12 SPEED CONTROL LEVER



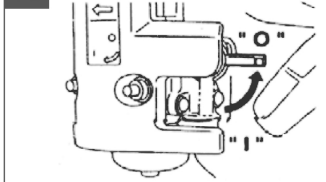
13 STOP SWITCH



14 AIR CLEANER

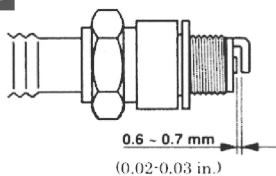


15 FUEL COCK



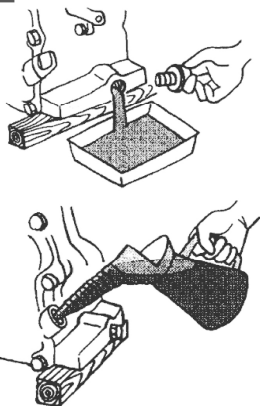
16

SPARK PLUG



17

MOTOR OIL



OPERATION

Structure

The upper part is made up of Power Source, Handle, Belt Cover and Guard Hook which are fixed by Engine base. The Engine base is fixed on Vibrating Plate by Shock Absorbing Rubber. The lower part is made up of Vibrating Plate and Vibrator unit that has an Eccentric rotary shaft built in. The power source is transmitted from the centrifugal clutch on engine output shaft to the eccentric rotary shaft via V-belt.

Power transfer

Air-cooled Single cylinder Engine is amounted as power source and Centrifugal Clutch is fixed on engine output shaft. Petrol Engine (2 cycle, 4 cycle) and Diesel Gasoline Engine can be mounted as option. Centrifugal Clutch engages by running up the engine and engine is reduced o suitable number for compacting. The rotation of engine is transmitted from V-pulley integrated with Clutch drum to Vibrator pulley through V-belt. Vibrator Pulley rotates Eccentric rotor shaft that is contained in Vibrator case. The generated vibration created from eccentric rotor is transmitted to Compaction with the weight of the machine makes the compaction of the ground possible.

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.

Motor is 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.

Operation

General 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 leveled 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.

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 of 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. Forward or backward motion has problem, adjust the red handle or nut (item 21, 22 in components list) Steer the machine by moving the handle sideways to the right or left.

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

1. Prior to operation

- a) Make sure that all dirt, nut, etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the button face of the vibrating plate and those areas adjacent to the cooling air inlet of engine, carburetor, and air cleaner.
- b) Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit.
- c) Check the V-belt for tightness. The normal slack should be approximately 10-15 mm (1/2") when the belts are forcibly depressed in the middle position between the two sheaves. If there is excess belt play. There could be a decrease in the impact force or erratic vibration, causing machine damage.
- d) Check the engine oil level and if the engine oil lever is low, it should be refilled. Use the proper motor oil as suggested in the table below. (see Figure 1).

Season temperature	Grade of motor oil (higher than MS class)
Spring, Summer or Autumn +120°F to +40°F	SAE30
Winter +40°F to +15°F	SAE20
Below +15°F	SAE10W-30

- e) Remove the oil plug in the vibrator assembly and check the oil level. Make sure the compactor is level when checking. The oil level should be up to the oil plug. Every month or every 200 hours of operation, replace the oil.

▲ IMPORTANT!

Use the motor oil SAE. When changing the oil, the old oil can be drained by tipping the unit. The oil will drain easily while it is hot.

- f) A regular grade gasoline should be used in the engine. When filling the fuel tank, make sure the fuel.

2. Caution

- a) Be careful with the operating place and ventilation. Avoid operating the machine in a closed room, tunnel, or other badly ventilated places, since its exhaust contains deadly poisonous carbon monoxide. If the machine is employed unavoidable operated in such a place, discharge the exhaust out the room by a suitable means.

- b) Be careful with the hot members.
- c) Mufflers and other hot members are dangerous. Do not touch them with unprepared hand.
- d) Observe with the following cautions when transporting. Clamp fuel tank cap securely, and turn the fuel valve OFF at the source during Drain gasoline from fuel tank before transporting over a long distance or on rough roads.
- e) Stop engine without fail before replenishing fuel tank.
- f) Never replenish gasoline while the engine is running or remains hot otherwise spilled or evaporated fuel is liable to catch fire from engine sparks or muffler heat.
- g) Wipe off spilled fuel, if any, before starting engine. Be careful not to spill fuel.
- h) Keep inflammables away from the vicinity of the exhaust port.
- i) Be careful with gasoline match, straw and other inflammables, since the exhaust port is subjected to a high temperature.

3. Starting gasoline engine

- a) Turn the STOP SWITCH clock-wise to the position "ON" (see Figure 2)
- b) Open the fuel cock (see Figure 3)
- c) Set the speed control lever 1/3 to 1/2 of the way towards the high-speed position (see Figure 4).
- d) Close the choke lever (see Figure 5). If the engine is warm or the ambient temperature is high, open the choke lever half-way, or keep it fully open. If the engine is cold or the ambient temperature is low, close the choke lever fully.
- e) Pull the starter handle slowly until resistance is felt. This is the compression point. Return the handle to its original position and pull swiftly. Do not pull out the rope all the way. After start the engine, allow the starter handle to return to its original position while still holding the handle.
- f) Diesel engine. Turn the throttle lever to START position (open by about 30 degrees) (see Figure 8).
- g) Operate Starter. In case of recoil starter by pulling the starter knob slowly, you will reach such point where resistance become strong (compression point). By pulling it further, you will find a point where resistance is reduced. Return the knob but slowly return it original (see Figure 7)

⚠ CAUTION!

Do not pull the rope all the way and do not take your hand off the pulled knob

but slowly return it original position.

- h) After starting up the engine, be sure to perform a warm up the engine, be sure to perform a warm up run for 2 to 3 minutes. This should be performed without fail, particularly during winter season.

4. Operation

- a) As the engine warms up, gradually move the choke lever to the OPEN position (see Figure 9)
- b) Move the speed control lever from the LOW to the HIGH position. When the engine speed reaches approximately 2,300-2,600 PRM, the centrifugal clutch engages. If the engine speed increased very slowly, it is possible that the clutch can slip. Do not operate the speed control lever slowly (see Figure 10-11)

Oil alert system

The oil alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert System will automatically stop the engine (the engine switch will remain in the ON position).

NOTE: If the engine stops and will not restart, check the engine oil level.

- a) When compacting asphalt, it is advisable to paint the bottom face of the vibrating plate with diesel fuel. This will assist in preventing the plate from sticking to the asphalt.
- b) When shutting off the vibrator, turn the speed control lever from the HIGH to LOW position. Do not move the speed control lever slowly.

5. Transportation

- a) Be sure to stop the engine while transporting.
- b) Screw up the fuel tank cap securely and close the fuel valve to avoid fuel leaking.
- c) In transportation by car, fix machine securely not to move nor to fall down. In case of driving for long distance or at off-road, tank out fuel from tank.

6. Shutdown

To stop the engine in an emergency, turn the stop switch to the OFF position.

Under normal conditions, use the following procedure:

- a) Set the speed control lever at the low-speed position and allow the engine to

run at low speed for 2 or 3 minutes before stopping.

- b) Turn the stop switch to the OFF position. (see Figure 13)
- c) Close the fuel cock (see Figure 15)

7. Service & storage

⚠ CAUTION!

Flammable liquid: Stop engine and do not smoke or allow work in immediate area when refueling. Fire or explosion could result from flames or sparks.

Moving parts: Shutdown engine before performing service or maintenance. Contact with moving parts cause serious injury.

High temperature: Allow machine and engine to cool before performing service or maintenance. Contact with hot components can cause serious burn.

a) Daily service

- Remove mud, dirt, etc., from the unit.
- Clean bottom face of the vibrating plate.
- Check the air cleaner element and clean if necessary.
- Check all nuts, bolts, and screws for tightness and retighten as necessary.

b) Weekly service

♦ Air cleaner service (see Figure 14)

Dirty air cleaner element will cause starting difficulty, power loss, engine malfunctions, and shorten engine life extremely.

Keep the air cleaner element clean.

Urethane foam element

Remove the element and wash it in kerosene or diesel fuel. Then saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Squeeze the element to remove the mixture and install it in the air cleaner.

Urethane foam dual structure

1. Clean the urethane foam in the same way as described above.
2. Wash the element in kerosene or diesel fuel. Saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Shake off excessive oil and reinstall.

♦ **Remove spark plug**, clean and adjust the spark plug gap to 0.6-0.7mm (0.02-0.03 in.). (see Figure 16)

♦ **Drain the motor oil** of the engine and replace with new specified oil. (see Figure 17)

NOTE: When the engine is new, the first oil change must be made after 20 hours

of operation and replenish the oil tank before operating.

c) Monthly service

Change the oil in the vibrator assembly.

a) Storage

When storing the compactor for long periods after operation.

- ◆ Thoroughly drain the fuel from the fuel tank fuel pipe and carburetor.
- ◆ Pour a few drops of motor oil into the cylinder by removing the spark plug. Rotate the engine several times by hand so that the cylinder interior is covered with oil.
- ◆ Clean the outer surface of the machine with an oil moistened cloth. Cover the unit and store in a humidity-free area.

MAINTENANCE&MALFUNCTIONS

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. Clean the underside of the plate regularly to prevent a buildup of material.

Service

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

⚠ CAUTION!

Inspection and other services should always be carried out on hard and level ground with the engine shutdown.

Inspection and maintenance Service Tables.

1. To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with Tables 1 through 3.

Table 1: Machine inspection

Item	Hours of operation	Remarks
Loose or Missing screws	Every 8 hours (every day)	
Damaged parts	Every 8 hours (every day)	
Function of Controlling system part	Every 8 hours (every day)	
Vibrator Oil Check	Every 100 hours	
Vibrator Oil Replacement	Every 300 hours	Replenish 600mL
V-belt (clutch) Check	Every 200 hours	
Battery Check	Every 100 hours	

⚠ CAUTION! These inspection intervals are for operation under normal conditions. Adjust you inspection intervals based on the number hours plate compactor is in use, and particular working conditions. Vibrator case uses 320F gear oil as lubricant.

⚠ CAUTION! Fuel piping and connections should be replaced every 2 years.

Table 2: Engine check

Item	Hours of operation
Oil or Fuel leak	Every 8 hours (every day)
Tightness of fastening threads	Every 8 hours (every day)
Engine oil check and Replenishment	Every 8 hours (Replenish to specified maximum level)
Engine oil replacement	After first 25hours then every 50to 100 hours
Air filter cleaning	Every 100 hours
See separate engine manual for details on engine check	

Daily service

- Check for leakage of fuel or oil.
- Check for loose screws including tightness. See Table 3 below (tightening torque), for retightening:

Table 3: tightening torque (in.kg/cm) Diameter

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	300-350	650-700					
*(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								

- Remove soil and clean the bottom of compaction plate.
- Check engine oil.

Bearings

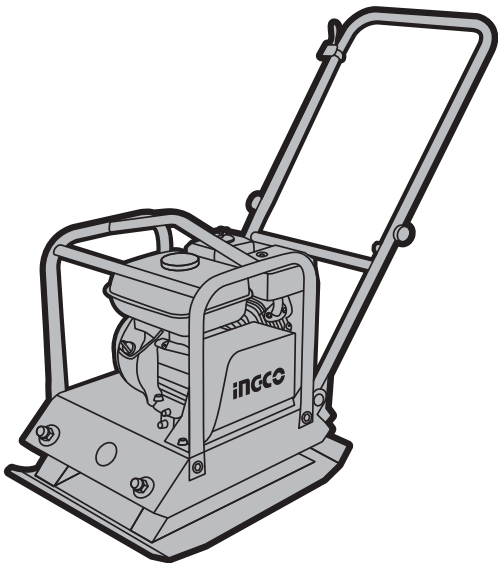
The following bearings are sealed: Centrifugal clutch-grease lubricated Vibrator-Oil bath lubricated.

Finish

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

Troubleshooting

Symptom	Possible causes and correction
Motor will not start	• Check the ON/OFF switch to ensure that it is switched 'ON'. • Check the fuel supply. • If a motor is fitted check the crankcase oil level as and oil sensor device is fitted to these motors which prevents starting and stops the motor when the oil level is low. • Ensure the carburetor jet and bowl to ensure they are then.
Motor stops	• Check the fuel supply.
Petrol Motor lacks power.	• Check the condition of the air filter
Insufficient vibration	• Check for a slipping or a missing see belt.
Machine is not moving freely	• Check the underside of the plate for a buildup of material.
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	



MADE IN CHINA 0224.V14

NEWWAY TECHNOLOGY (SUZHOU) CO., LIMITED

No. 20 Dagang Road, Fuqiao Town, Taicang City, China



www.ingco.com