



## VIBRATORY PLATE COMPACTOR

HCOMP100-1

### INSTRUCTIONS MANUAL



**Warning: read the manual before use the tool**

HYUNDAI  
32, rue Aristide Bergès - ZI 31270 Cugnaux – France  
Licensed by Hyundai Corporation, Korea  
Made in China



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## 1. SAFETY INSTRUCTIONS

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### General safety rules

#### a) Understanding your machine

- Read and understand the operator's manual and labels attached to the machine. Learn about its application and limitations as well as its specific potential hazards.
- Become familiar with the controls and their own operations. Know how to stop the machine and quickly disengage the controls.
- Be sure to read and understand all instructions and safety precautions outlined in the Machine Manual packed separately with the unit. Do not attempt to operate the machine until you have fully understood how to operate it properly and maintain the engine, and how to prevent accidental injury and / or property damage.

#### b) Work area

- Never start and run the engine in a confined space. The exhaust gases are dangerous; they contain carbon monoxide, an odourless and deadly gas. Only operate the unit in a well-ventilated outdoor area.
- Never operate the machine without good visibility or lighting.
- Please take precautions when operating in areas where there is a particular risk under local regulations, for example near overhead power lines, under a tunnel, or in a contaminated area. Keep people away from the work area.

#### c) Personal security

- Do not operate the machine under the influence of drugs, alcohol or medication that could affect your ability to use it properly.
- Dress properly. Wear long pants, boots and gloves. Do not wear loose clothing, shorts, jewellery of any kind. Secure the long hair so that it is above the shoulders. Keep hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- Check your machine before starting it. Keep casings in place and in working order. Make sure all nuts, bolts, etc. are tight.
- Never operate the machine if it needs to be repaired or if it is mechanically damaged. Replace damaged, missing or defective parts before using. Check for fuel leaks. Keep the machine in a safe operating condition.
- Do not operate the machine if the engine switch is not working properly. Any gasoline machine that cannot be controlled with the engine switch is dangerous and needs to be replaced.
- Make a habit of checking that the adjustable wrenches are removed from the machine area before starting it. A wrench that stays on a rotating part of the machine can cause bodily injury.
- Stay awake, watch what you are doing and make sense when operating the machine.
- Do not stretch too far. Do not operate the machine while barefoot, in sandals or with light shoes. Wear safety shoes that will protect your feet, and improve your grip on slippery surfaces. Walk carefully and balance at all times. This allows a better control of the machine in unforeseen situations.
- Avoid accidental starting. Make sure the engine switch is off before transporting the machine or performing maintenance or overhaul of the machine. Transporting or performing maintenance or overhaul on the machine with the switch in the on position is an invitation to accidents.

#### d) Fuel safety

- The fuel is highly flammable; its vapours may explode if ignited. Take precautions to reduce the risk of serious personal injury.

- When filling or emptying the fuel tank, use an approved fuel storage container and do so outdoors in a well-ventilated area. Do not smoke, spark, and leave naked flames or other sources of ignition nearby by adding fuel or operating the unit. Never fill the fuel tank indoors.
- Ground conductive objects, such as tools, and away from live electrical parts and connections to avoid sparks or bows. These events can ignite fumes and vapours.
- Always stop the engine and allow it to cool before filling the fuel tank. Never remove the fuel tank cap or add fuel when the engine is running or hot. Do not operate the machine if leaks in the fuel system are known.
- Slowly remove the fuel tank cap to allow any pressure to escape from the tank.
- Never overfill the fuel tank (there must be no fuel above the limit).
- Replace the fuel tank and container caps, and wipe off any fuel spills. Never operate the unit without the fuel cap securely in place.
- Replace the fuel tank and container caps, and wipe off any fuel spills. Never operate the unit without the fuel cap securely in place.
- Avoid creating an ignition source for fuel spills. If fuel is spilled, do not attempt to start the engine, but move the machine away from this area, and avoid creating an ignition source until the fuel vapours have dissipated.
- Store fuel in specially designed and approved containers for this purpose.
- Store fuel in a well-ventilated area, away from sparks, open flames and other sources of ignition.
- Never store fuel or the machine with fuel in the tank inside a building where vapours may touch sparks, open flames or other sources of ignition, such as a water heater, oven, a tumble dryer and the like. Allow the engine to cool before storing the machine in an enclosed area.

**e) Use and maintenance of the machine**

- Never move or transport a machine while the engine is running.
- Do not force the machine. Use the correct machine for your application. The correct machine will do better and safer the job for which it was designed.
- Do not change the engine throttle settings or run the engine too fast. The accelerator controls the maximum operating speed of the engine.
- Do not run the engine at high speed when you are not compacting.
- Do not put your hands and feet near the rotating parts.
- Avoid contact with hot fuel, oil, exhaust and hot surfaces. Do not touch the engine or muffler. These parts become extremely hot during operation. They stay hot for a short time after stopping the unit. Allow the engine to cool before performing any maintenance or adjustments.
- If the machine makes unusual noise or vibrations during starting, immediately shut off the engine, disconnect the spark plug and look for the cause. Unusual noise or vibration is usually a warning of a problem.
- Only use accessories approved by the manufacturer. Failure to do so may result in personal injury.
- Maintain the machine. Check for misalignment or blockage of moving parts, breakage of parts, and other conditions that may affect machine operation. If it is damaged, have the machine repaired before using it. Many accidents are caused by poorly maintained equipment.
- Do not leave on the engine and muffler grass, leaves, excess grease or carbon deposits to reduce the risk of fire.
- Do not soak or water the unit with water or any other liquid. Keep hands dry, clean and free of debris. Clean after each use.

- Observe the laws and regulations for proper disposal for gasoline, oil, etc. to protect the environment.
- Store the machine out of reach of children, and do not leave anyone without experience with the machine or instructions for use. The machine is dangerous for untrained users.

#### **f) Review**

Before cleaning, repairing, inspecting or adjusting the machine, turn off the engine and make sure that moving parts are at a standstill. Always make sure that the engine switch is in the "OFF" position. Disconnect the spark plug, and keep the cable away from the spark plug to prevent accidental starting.

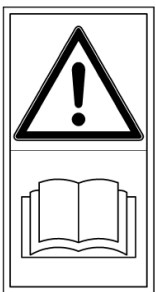







Have the machine serviced by qualified personnel using identical spare parts. This will ensure that the safety of the machine is maintained






#### **General safety rules**

- To avoid injury, keep hands, fingers, and feet away from the base plate. Hold the handle of the plate compactor firmly with both hands. If both hands hold the handle and feet are away from the compactor base, your hands, fingers and feet cannot be injured by the base.
- Always operate the machine from behind, never drive past the machine while the engine is running.
- Never place the tool or other element under the compactor plate.
- If the unit strikes a foreign object, stop the engine, disconnect the spark plug, inspect the machine carefully, and repair any damage before restarting and operating the machine.
- Do not overload the capacity of the machine by compacting too deeply in one pass or at too high a speed.
- Never operate the machine at a high speed on hard or slippery surfaces.
- Exercise extreme caution when working or crossing paths, pedestrian paths or roads. Stay alert for hidden dangers and traffic. Do not carry a passenger.
- Never leave the plate compactor in the operating position and leave it unattended while the engine is running.
- Always stop the engine if the compaction is delayed, or going from one place to another.
- Stay clear of edge of ditches and avoid actions that could spill the plate compactor.
- Always climb the slopes carefully, in the upward direction or across the slopes so that the plate compactor does not tip over the operator.
- Always park the unit on a firm, level surface and cut the machine.
- To reduce vibration exposure, limit operating hours and take breaks to minimize repetition and rest your hands. Reduces the speed and strength with which you make repetitive movements. Try to do daily work for which hand-held equipment is not required.
- When using, complete protective equipment must be worn, including at least non-slip safety shoes, eye, hearing and respiratory protection. Also wear protective gloves.
- Untrained, inexperienced and unfamiliar users will need to be properly trained to use the tool through a competent person.
- The operator and staff should familiarize themselves with the instruction manual before using the machine;
- The machine must remain stable. It must be used on stable ground. Remove all materials and avoid any areas and situations that could make the machine unstable.
- The machine must be put into service only when it meets all the safety and use precautions, stability, surface condition, track width and the relation between the widths of the drum and, by for example, the height of the edges and / or edges and / or the depth of the ditches should be taken into account.
- The user of the machine must determine if there are particular risks when operating the machine, such as

toxic gases, ground conditions (under the feet). Take special precautionary measures to eliminate or reduce the hazard as described in this manual.

## SYMBOLS

	<p>Read instruction handbook</p>
	<p>Wear hearing and ocular protection</p>
	<p>Wear protection gloves</p>
	<p>Wear antiskid shoes of protection</p>
	<p>It is forbidden to remove or modify the protection and safety devices.</p>
	<p>Stay away from rotating parts.</p>
	<p>Do not touch parts made hot by operations. Serious burns can result.</p>
	<p>Do not smoke or show naked flames. Take extreme precautions to store, handle and use the fuel, as it is very volatile and explosive under the vapour state.</p>

	Keep children and onlookers out of the way
	Guarantee sound power level
	Warning decal
	Crushing hazard
	Cutting hazards

## 2. THE PRODUCT

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Your new vibrating plate compactor will exceed your expectations. It has been manufactured according to binding quality standards for superior performance criteria. You will find it easy and safe to use, and by maintaining it well, it will give you many years of reliable service.



Read the entire user manual carefully before using it. Pay special attention to precautions and warnings.

The commitment to quality has been designed in detail: self-cleaning reinforced base plate, engine oil drain hose, closed belt guard, self-adjusting centrifugal clutch and folding handle. A range of useful accessories can be used in all kinds of applications.

The plate compactor applies energy to loose soil and other materials to increase density and lift, and is generally used for minor repairs and maintenance work. Soft soil or particles are moved or rearranged in a particular manner close to one another to avoid air pockets and voids. It increases lift, decreases water absorption, prevents soil compaction, reduces swelling and soil contraction, and prevents frost damage. It is ideal for compaction of granular soils, sand, gravel, crushed aggregates and mixed soils.

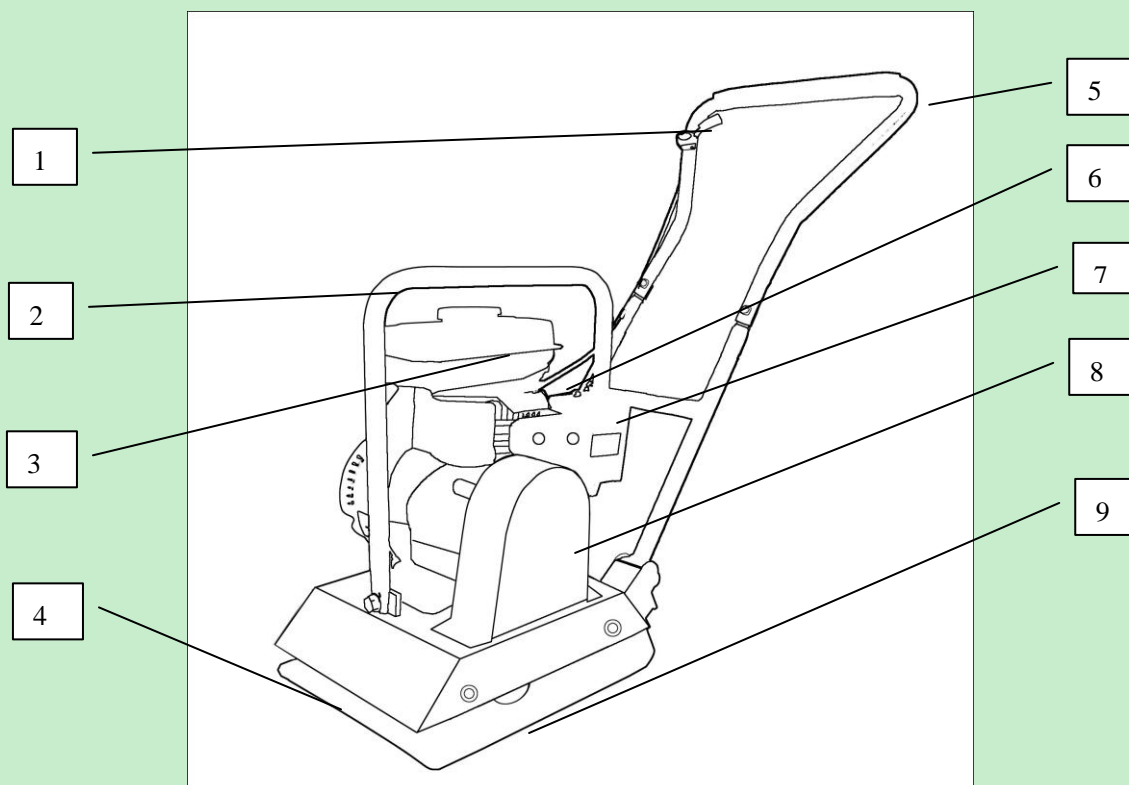


These compactors are not intended for use on cohesive soils such as clay or hard surfaces such as concrete.

The engine manufacturer is responsible for engine problems with respect to performance, power, features, warranty and overhaul. For more information, see the engine manufacturer's owners / owner's manual, which is packaged separately from the unit.

#### Product Description

- |                   |               |
|-------------------|---------------|
| 1. Accelerator    | 6. Air filter |
| 2. Lifting handle | 7. Silent     |
| 3. Fuel tank      | 8. Belt cover |
| 4. Base plate     | 9. Vibrator   |



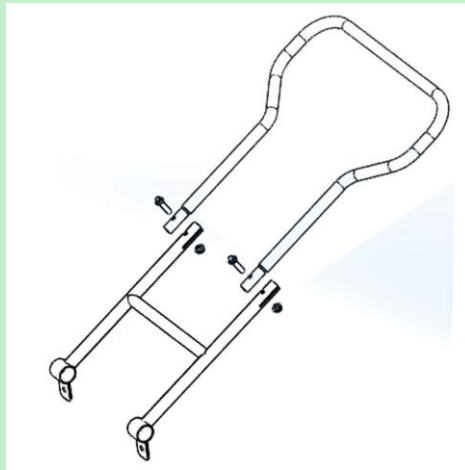


## Technical data

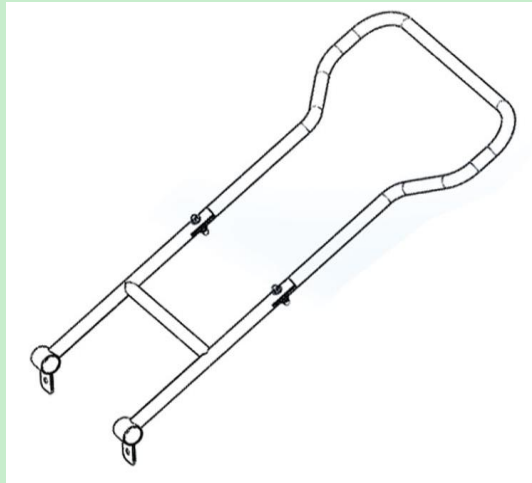
Model	HCOMP100-1
Size of the plate	410 X 280 mm
Centrifugal force	10.3kN
Speed of the vibrator	5300/min
Depth of compaction	10 cm
Movement speed	0-20 m/min
Engine	1.35kW
Weight of operation	34kg
Sound pressure level	88.5 dB(A), K=3 dB(A),
Guarantee sound power level	103dB(A)
Vibration value	10.51 m/s <sup>2</sup> , K=1.5m/s <sup>2</sup>

### 3. Assembly

a) Assembly of the handle



b) Example of finished assembly of round



c) Engine oil



#### **OIL WAS DRAINED FOR SHIPMENT**

Failure to fill the engine crankcase with oil before starting the engine will result in permanent damage and void the engine warranty.

Add oil according to the engine manual.

#### **4. INSPECTION & OPERATION**

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THE MACHINE IS BETTER APPROPRIATE TO COMPACTION OF BITUMEN AND GRANULAR MATERIALS LIKE GRANULAR SOILS, GRAVEL AND SAND, OR MIXING BOTH, COHERENT SOILS LIKE LIMON AND CLAY ARE BETTER COMPACT WITH IMPACT STRENGTH BY A VIBRANT GIRL.

TO THE EXTENT POSSIBLE, THE SITE SHOULD BE REPORTED BEFORE STARTING COMPACTION.

THE MOISTURE RATE IN THE SOIL IS ESSENTIAL FOR CORRECT COMPACTION. WATER IS LIKE A LUBRICANT TO HELP SLIDE PARTICLES TOGETHER. TOO LITTLE MOISTURE MEANS INADEQUATE COMPACTION; TOO MUCH MOISTURE LEAKS EMPTY FILLED WITH WATER THAT AFFECT THE FLOOR OF THE SOIL.

THE COMPACTION OF DRY MATERIALS WILL BE FACILITATED IN THE HUMIDIFIER WITH A WATER PIPE PROVIDED WITH A WATERPROOF APPLE.

TOO MUCH WATER WILL CAUSE THE MACHINE TO DERAPATE.

THE OPTIONAL KIT FOR THE WATER TANK IS RECOMMENDED WHEN THE MACHINE IS USED ON BITMINE SURFACES AS THE WATER FILM PREVENTS THE AMOUNT OF MATERIAL ON THE SURFACE OF THE PLATE.

THE VIBRATION MOVEMENT PROVIDES A SELF-PROPULSION ACTION. POSITION THE HANDLE OF THE OPPOSITE SIDE OF THE MACHINE TO THE VIBRATOR  
START THE ENGINE WITH THE WINDING STARTER. (IF THE MOTOR HAS AN ON / OFF SWITCH, IT MUST FIRST BE SWITCHED ON BEFORE STARTING).

FOR MORE INFORMATION ON STARTING AND PROCEDURES  
CORRECTLY TO OPERATE THE ENGINE, SEE THE OPERATING MANUAL OF THE ENGINE SUPPLIED WITH THE UNIT.

INCREASE ENGINE SPEED TO MAXIMUM POSITION WITH ACCELERATOR LEVER BEFORE STARTING COMPACTION.

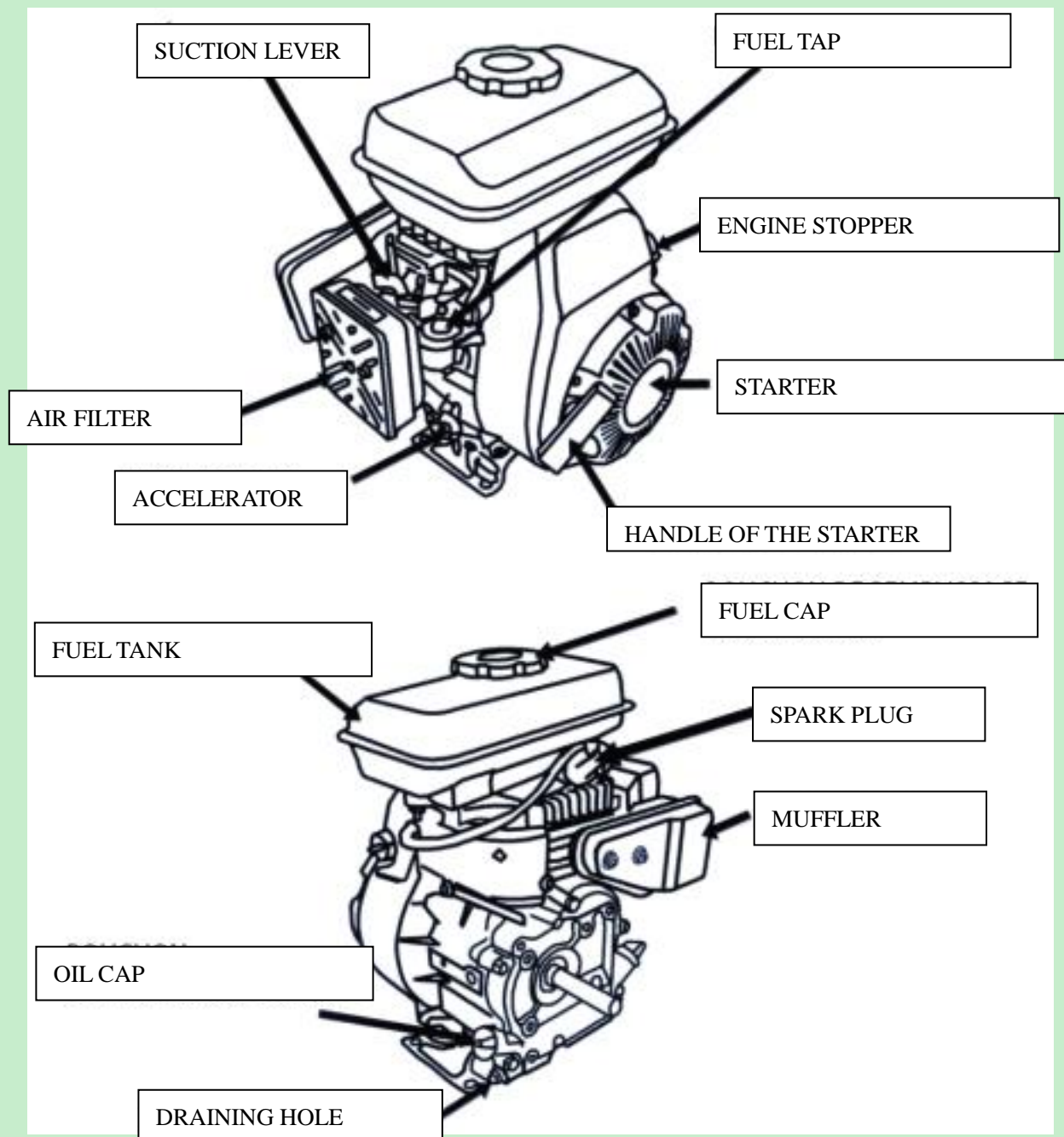
THE MACHINE MUST BE INSPECTED BY TIGHTENING THE HANDS OF BOTH HANDS AND APPLYING A STRESS TO CONTROL THE FRONT MOVEMENT.

CHANGE THE DIRECTION OF THE MACHINE BY MOVING THE CHANNEL RIGHT OR LEFT.

ALWAYS WELL STAND ON YOUR FEET NOT TO SLIDE AND LOSE  
INSPECTION BY STARTING OR OPERATING THE MACHINE.  
IF THE WATER TANK IS INSTALLED, THE FLOW CAN BE CHECKED BY ADJUSTING THE TAP FROM THE ALIMENTATION HOSE TO THE HEAD ROD.

**PLEASE READ THE INSTRUCTION MANUAL FOR THE DIESEL ENGINE (GASOLINE) BEFORE USE.**

**DIESEL (GASOLINE) BEFORE USE.**



### Before starting

1. Road safety instructions: beginning of the manual.
2. Clean the compactor, remove dirt and dust. Especially, the bottom of the plate, the engine cooling air inlet, the carburettor and the air filter.
3. Check the air filter for dirt and dust. If the air filter is dirty, blow through the filter cartridge from the

### NOTE

The oil level warning system will automatically stop the engine before the engine goes below safety limits. Always be sure to check the engine oil level before starting the engine

Table 3. Type of oil

inside by moving the jet of compressed air up and down until all dust is removed. If not, replace the air filter with a new one.

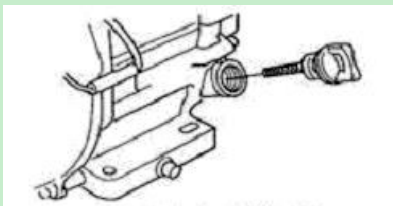
4. Check that the carburettor exterior is free of dirt and dust. Clean with dry compressed air.

5. Check the tightness of the nuts and bolts. Loose screws and bolts due to vibration may cause an unforeseen accident.

Check the engine oil

1. To check the engine oil level, place the plate compactor on level, stable ground and the engine stopped.

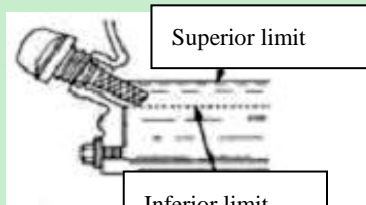
2. Remove the plug / dipstick from the engine oil filter port (Figure 3) and wipe it clean.



**Figure 3. Engine oil dipstick**

3. Insert and remove the dipstick without screwing into the filter neck. Check the oil level indicated on the dipstick.

4. If the oil level is low (Figure 4), fill to the edge of the oil filter hole with the recommended type of oil (Table 3). Maximum oil capacity: 400 cc.



**Figure 4. Engine oil dipstick**

**Check the belt**

**ATTENTION :**



NEVER try to check the belt while the engine is running. Serious injury can occur if your hands (Figure 6) get caught between the belt and the clutch. Always wear safety gloves.

Season	Temperature	Type
Summer	25°C or more	SAE 10W-30
Spring / Autumn	10°C à 25°C	SAE 10W-30/20
Winter	0°C or less	SAE 10W-10

**Check the essence**

1. Remove the fuel cap at the top of the fuel tank.

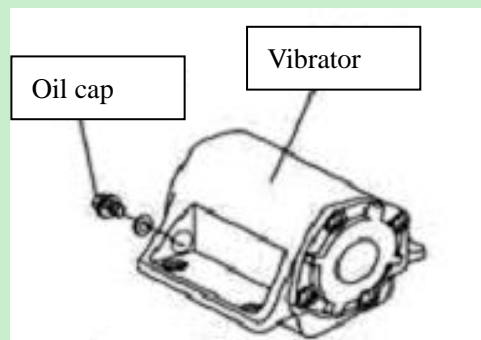
2. Visually inspect to see if the fuel level is low. If the level is low, fill with unleaded gasoline.

3. When refuelling, use strainer for filtering. DO NOT fill to the top. Wipe off any fuel spillage.

Check the vibrator oil

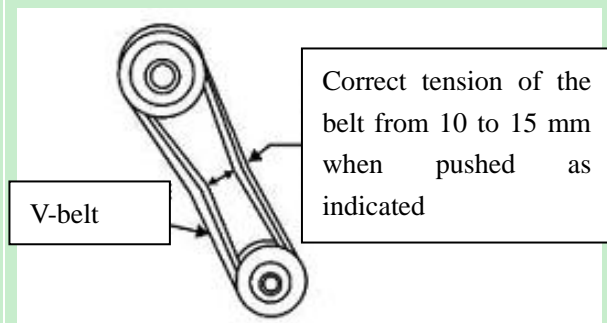
1. Place the MVC-88GH horizontally on a flat surface. Make sure the compactor is level by checking the vibrator oil.

2. Check the vibrator level by removing the plug (vibrating oil dipstick) as shown in Figure 5. The oil level should reach the plug. The vibrator contains 140 cc (about 1 quart). **IMPORTANT:** If oil is required, use SAE 10W-30 engine oil.



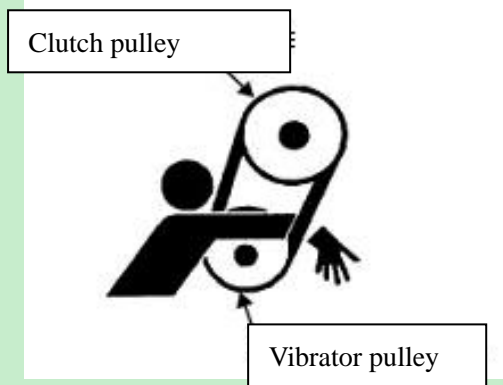
**Figure 5. Oil cap of the vibrator**

2. The belt tension is correct if the belt slumps by 10 to 15 mm by pressing the finger in the middle between the clutch and the pulley.



**Figure 8. Belt tension**

3. A relaxed belt will reduce the power transmitted,



**Figure 6. Danger of the belt**

1. To check the belt tension, remove the three bolts securing the belt cover to the body as shown in Figure 7.

causing a reduction in compaction and premature wear of the belt.

4. If the belt is worn or loose, replace it with a series belt RPF-3320 or 1-32.

## OPERATIONS

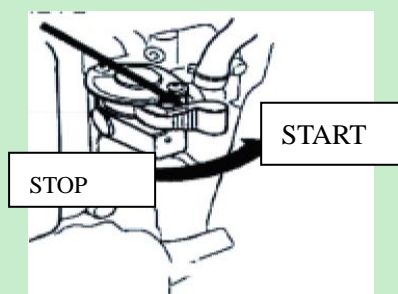
### 5. OPERATION

Before operating the engine for the first time, please review the **IMPORTANT SAFETY INFORMATION** and the chapter entitled **BEFORE OPERATION**.

#### STARTING THE ENGINE

1 Turn the fuel valve to the ON position.

#### FUEL VALVE



2. To start a cold engine, turn the choke to the **CLOSED** position.

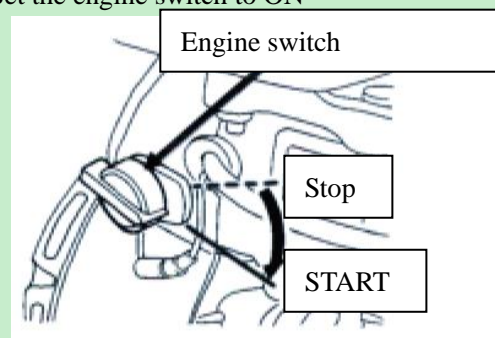
To restart a warm engine, turn the choke to **OPEN**.

### WARNING

Carbon monoxide is toxic.

Breathing it can cause fainting and even kill you. Avoid areas or actions exposing you to carbon monoxide.

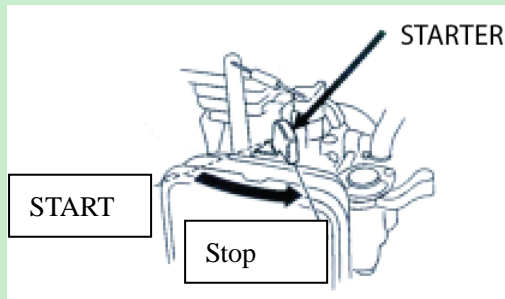
4. Set the engine switch to ON



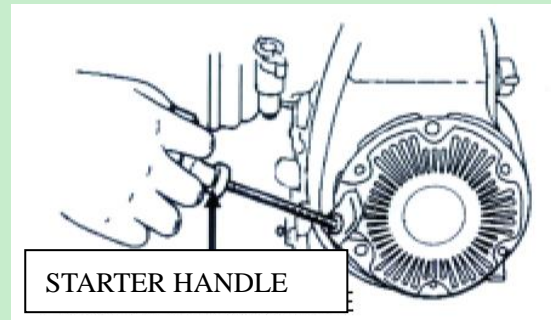
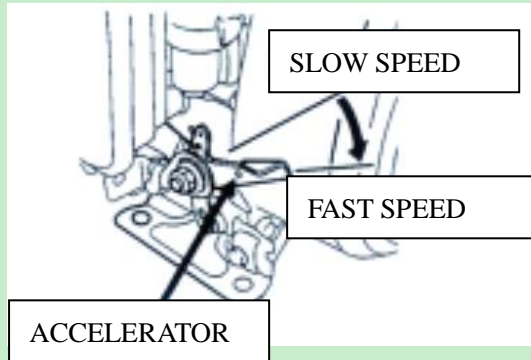
5. Starter.

Pull the starter grip lightly until you feel resistance, and then pull hard.

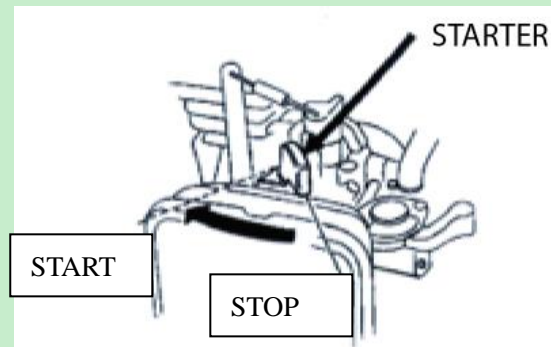
Slowly release the handle



3. Move the throttle from SLOW, about 1/3 to the FAST position.



6. Gradually move to the OPEN position when the engine starts to heat up.



## 5. MAINTENANCE

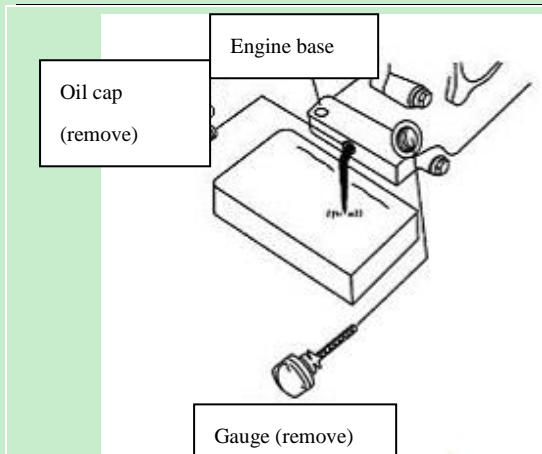


Figure 14. Oil cap of the vibrator

### Vibrator oil change

1. To change the vibrator oil, remove the drain plug at the bottom right of the vibrator (Figure 5) and simply tilt the vibrator to drain the oil. Note that the oil will drain more easily if it is hot. Remember to use only 10W-30 engine oil to replace the vibrating oil.

### Air filter

1. The air filter needs to be cleaned because a clogged air filter can cause the engine to start improperly, lack of power and a significant reduction in engine life.  
2. To clean or replace the air filter, loosen the wing nut on the air

### ATTENTION :



**NEVER** try to check the belt while the engine is running. Serious injury can occur if your hands (Figure 6) get caught between the belt and the clutch. Always wear safety gloves.

### Checking and replacing the belt and clutch

1. After 200 hours of operation, remove the top cover of the belt to check the belt tension. The tension is correct if the belt drops about 10 mm when the finger is pressed firmly between the shafts. Relaxed or worn belts reduce the efficiency of the power transmission, resulting in low compaction and reducing the life of the belt itself.

### Checking and replacing the belt and clutch

### ATTENTION :



filter housing (Figure 15), remove the cover and remove the filter cartridge. If only cleaning the air filter is desired, blow through the filter cartridge from the inside by moving the jet of compressed air up and down until all dust is removed.

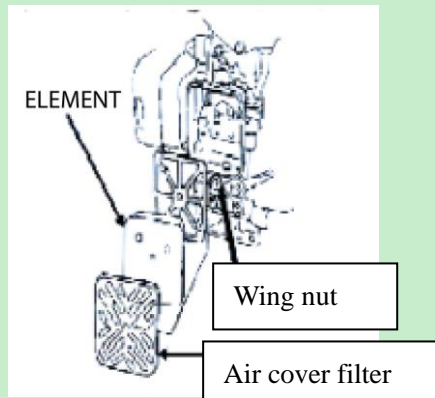


Figure 15. Air filter



If compactor vibrations become weak or even disappear during normal operations regardless of operating hours, check the belt and clutch immediately.

#### • Belt replacement

Remove the upper and lower covers of the belt. Insert a ring wrench (13 mm) or similar into the clamp bolt of the vibrator pulley. Insert a cloth or similar into the center of the belt on the left and pull firmly, turn the key clockwise to remove the belt.

#### Belt installation

Engage the belt on the vibrator pulley and push the belt to the left of the upper clutch, and in the same manner as for removal, turn the wrench clockwise so that the belt snaps into place.

#### Checking the clutch

Check the clutch at the same time as the belt. With the belt removed, visually check that the outer drum of the clutch is not seized and that the V-shaped sheave is not worn or damaged. Clean the sheave V if necessary. Wear of the liner or sole must be checked by checking. If the sole is worn, the power transmission becomes defective and will slip.

### Engine maintenance

See the engine manual included in your plate compactor for engine maintenance information. Your engine manual provides detailed information for performing the tasks.

## 6. STORAGE

If the plate compactor is not used for a period of more than 30 days, follow the steps to prepare the unit for storage.

- 1) Drain the fuel tank completely. Stored fuel containing ethanol or MTBE may begin to expire in 30 days. The expired fuel contains a lot of gum and can clog the carburettor and decrease the fuel flow.
- 2) Start the engine and let it run until it stops. This ensures that no fuel remains in the carburettor. Run the engine until it stops. This prevents deposits from forming in the carburettor and possibly damaging the engine.
- 3) While the engine is still hot, drain the engine oil. Fill it with oil of the quality recommended in the engine manual.
- 4) Allow the engine to cool. Remove the spark plug and put 60ml of high quality SAE-30 engine oil into the cylinder. Pull the starter cord gently to dispense the oil. Replace the candle.





**Remove the spark plug and drain all oil from the cylinder before attempting to start the unit after storage.**

- 1) Use clean rags on the outside of the compactor, and keep the vents in obstruction.



**Do not use strong detergents or gasoline-based cleaners to clean plastic parts. Chemicals can damage the plastic.**

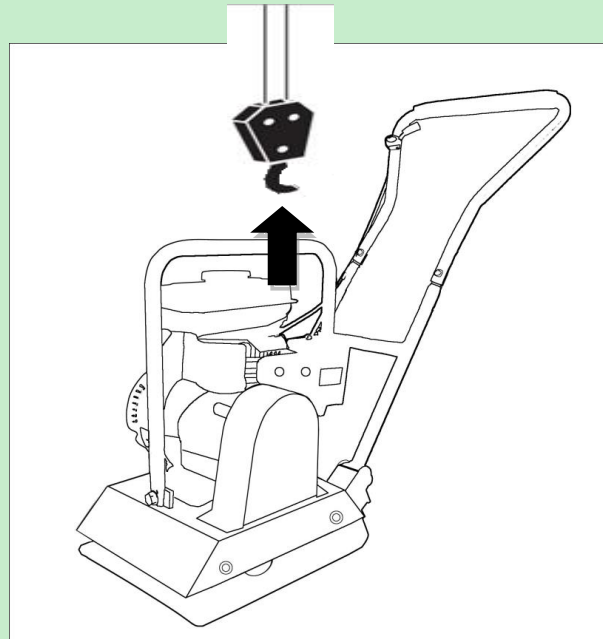
- 2) Lift the spring bolt and bend the wheel support.
- 3) Carefully bend the handle down. Do not pinch or bend the control cables.
- 4) Store your plate compactor upright in a clean, dry, well ventilated building.

## 7. LIFTING AND TRANSPORT

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See the technical data to know the weight of the machine.

To avoid burns and fires, allow the engine to cool before lifting / transporting the machine or storing it indoors.



The unit must be transported upright to avoid spilling fuel. Do not lie down or turn over the machine.

Secure or attach the unit with the lift handle to prevent the machine from slipping or tipping over.

When transporting, towing in a vehicle, secure the machine securely and keep it level to avoid spilling fuel, do not put it down and do not put anything on the machine



The machine may fall and cause damage or injury if improperly lifted. Rise with the handles at the base of the plate.

## 8. TROUBLESHOOTING

	Problem	CAUSES AND SOLUTIONS
1	ENGINE DOES NOT START	CHECK ON / OFF SWITCH TO MAKE SURE IT IS ON VERIFY FUEL SUPPLY IF A DIESEL ENGINE (GASOLINE) IS INSTALLED, CHECK THE STARTER OIL AS AN OIL SENSOR IS INSTALLED ON THESE ENGINES THAT PREVENTS STARTING AND STARTS THE ENGINE WHEN THE OIL LEVEL IS TOO LOW. MAKE SURE THE SPARK PLUG IS CONNECTED CHECK THE INJECTOR AND CARBURETOR BOWL TO ENSURE THAT THEY ARE CLEAN.
2	ENGINE STOP	VERIFY FUEL SUPPLY CHECK THAT THE FUEL TAP IS OPEN VERIFY THE AIR FILTER
3	ENGINE POWER LOSS	VERIFY THE CONDITION OF THE AIR FILTER VERIFY THE SPARK PLUG
4	WATER STOPS TO FLOW	NOT ENOUGH WATER BLOCKING IN THE WATER PIPE
5	INSUFFICIENT VIBRATION	CHECK WHETHER THE V-BELT SLIDES CHECK THAT THE ENGINE RUNS AT 3500 TRS / MIN
6	THE MACHINE DOES NOT MOVE FREELY	CHECK THE BOTTOM OF THE PLATE IF THERE MATERIALS

## 9. DECLARATION OF CONFORMITY EC

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Declaration of conformity EC

**HYUNDAI**

32, rue Aristide Bergès - ZI 31270 Cugnaux – France

Declare that the machine

**VIBRATORY PLATE COMPACTOR**

**Model: HCOMP100-1**

**Serial number:**

Responsible of technical file: Olivier Patriarca

Is in conformity with the following Directives:

Directive Machine 2006/42/EC

Directive noise 2000/14/EC Annex VI & 2005/88/EC

Directive 97/68/EC and Directive 2010/26/EU

Guarantee noise power level 103 dB(A);

La certification bruit a été délivrée par l'organisme notifié (NB no.0499)

Société Nationale de Certification et d'Homologation

11, route de Luxembourg L-5230 Sandweiler

The product is also in conformity with the following standards:

EN 500-1: 2006+A1: 2009

EN 500-4: 2011

EN ISO 12100 :2010

EN ISO 20643 :2008+A1 :2012

ISO 5349-1: 2001

EN 55012:2007+A1

EN 61000-6-1:2007

A handwritten signature in black ink, appearing to read 'Philippe MARIE', enclosed within a white rectangular box.

Philippe MARIE / PDG

Cugnaux, 19/09/2018

