

OPERATION MANUAL



***Mikasa* SERIES**
MODEL MVC60VTH/VTHW
ONE-WAY PLATE COMPACTOR
(HONDA GX120 ENGINE)

Revision #0 (07/07/2025)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

PROPOSITION 65 WARNING



**MVC60VTH/THW Plate
Compactor**

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Specifications and part numbers are subject to change without notice.

SAFETY INFORMATION

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.










SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: **DANGER**, **WARNING**, **CAUTION** or **NOTICE**.

SAFETY SYMBOLS

 DANGER
Indicates a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY .
 WARNING
Indicates a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY .
 CAUTION
Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE INJURY .
NOTICE
Addresses practices not related to personal injury.

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety messages.

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Respiratory hazards
	Accidental starting hazards
	Eye and hearing hazards
	Rotating parts hazards

SAFETY INFORMATION

GENERAL SAFETY

⚠ CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.



- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication.



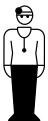
- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **ALWAYS** check the equipment for loosened threads or bolts before starting.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.
- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.

NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **ALWAYS** know the location of the nearest fire extinguisher.
- **ALWAYS** know the location of the nearest first aid kit.
- **ALWAYS** know the location of the nearest phone or **keep a phone on the job site**. Also, know the phone numbers of the nearest **ambulance**, **doctor** and **fire department**. This information will be invaluable in the case of an emergency.



SAFETY INFORMATION

COMPACTOR SAFETY

DANGER

- **NEVER** operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.



WARNING

- **NEVER** disconnect any **emergency or safety devices**. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.

CAUTION

- **NEVER** lubricate components or attempt service on a running machine.

NOTICE

- **ALWAYS** keep the machine in proper running condition.
- Fix damage to machine and replace any broken parts immediately.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

ENGINE SAFETY

DANGER

- The engine fuel exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled.
- The engine of this equipment requires an adequate free flow of cooling air. **NEVER** operate this equipment in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause injury to people and property and serious damage to the equipment or engine.



WARNING

- **DO NOT** place hands or fingers inside engine compartment when engine is running.
- **NEVER** operate the engine with heat shields or guards removed.
- Keep fingers, hands hair and clothing away from all moving parts to prevent injury.
- **DO NOT** remove the radiator cap while the engine is hot. High pressure boiling water will gush out of the radiator and severely scald any persons in the general area of the compactor.
- **DO NOT** remove the coolant drain plug while the engine is hot. Hot coolant will gush out of the coolant tank and severely scald any persons in the general area of the compactor.
- **DO NOT** remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the compactor.



CAUTION

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing equipment.



NOTICE

- **NEVER** run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.
- **NEVER** tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable.
- **NEVER** tip the engine to extreme angles during lifting as it may cause oil to gravitate into the cylinder head, making the engine start difficult.

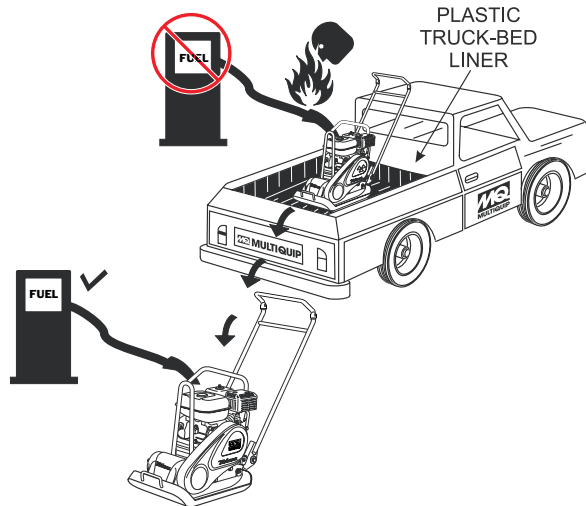


SAFETY INFORMATION

FUEL SAFETY

DANGER

- **DO NOT** add fuel to equipment if it is placed inside truck bed with plastic liner. Possibility exists of explosion or fire due to static electricity.



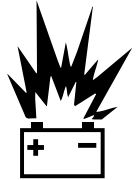
- **DO NOT** start the engine near spilled fuel or combustible fluids. Diesel fuel is extremely flammable and its vapors can cause an explosion if ignited.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with flammable liquids.
- **DO NOT** fill the fuel tank while the engine is running or hot.
- **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system.
- Store fuel in appropriate containers, in well-ventilated areas and away from sparks and flames.
- **NEVER** use fuel as a cleaning agent.
- **DO NOT** smoke around or near the equipment. Fire or explosion could result from fuel vapors or if fuel is spilled on a hot engine.



BATTERY SAFETY (ELECTRIC START ONLY)

DANGER

- **DO NOT** drop the battery. There is a possibility that the battery will explode.
- **DO NOT** expose the battery to open flames, sparks, cigarettes, etc. The battery contains combustible gases and liquids. If these gases and liquids come into contact with a flame or spark, an explosion could occur.



WARNING

- **ALWAYS** wear safety glasses when handling the battery to avoid eye irritation. The battery contains acids that can cause injury to the eyes and skin.
- Use well-insulated gloves when picking up the battery.
- **ALWAYS** keep the battery charged. If the battery is not charged, combustible gas will build up.
- **DO NOT** charge battery if frozen. Battery can explode. When frozen, warm the battery to at least 61°F (16°C).
- **ALWAYS** recharge the battery in a well-ventilated environment to avoid the risk of a dangerous concentration of combustible gases.
- If the battery liquid (dilute sulfuric acid) comes into contact with **clothing or skin**, rinse skin or clothing immediately with plenty of water.
- If the battery liquid (dilute sulfuric acid) comes into contact with **eyes**, rinse eyes immediately with plenty of water and contact the nearest doctor or hospital to seek medical attention.



CAUTION

- **ALWAYS** disconnect the **NEGATIVE battery terminal** before performing service on the equipment.
- **ALWAYS** keep battery cables in good working condition. Repair or replace all worn cables.

TRANSPORTING SAFETY

CAUTION


- NEVER allow any person or animal to stand underneath the equipment while lifting.

NOTICE

- Before lifting, make sure that the equipment parts (hook and vibration insulator) are not damaged and screws are not loose or missing.
- Always make sure crane or lifting device has been properly secured to the lifting bail (hook) of the equipment.
- **ALWAYS** shutdown engine before transporting.
- **NEVER** lift the equipment while the engine is running.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- Use one point suspension hook and lift straight upwards.
- **DO NOT** lift machine to unnecessary heights.
- **ALWAYS** tie down equipment during transport by securing the equipment with rope.

ENVIRONMENTAL SAFETY

NOTICE

- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters. 
- **DO NOT** use food or plastic containers to dispose of hazardous waste.
- **DO NOT** pour waste, oil or fuel directly onto the ground, down a drain or into any water source.

SPECIFICATIONS

Table 1. MVCV60TH/VTHW Specifications

Centrifugal Force	2,315 lbf (10.3 kN)
Vibration Frequency	5800 vpm (97 Hz)
Max Traveling Speed	82 ft/min (25 m/min)
Max. Area of Compaction	5,651 ft ² /hr (525 m ² /hr)
Plate Size (L x W)	20.5 x 13.8 in (520 x 350 mm)
Operating Weight	152 lbs. (69 kg)
Operating Weight (with water tank)	165 lbs. (75 kg)
Water Tank Capacity	8.9 quarts (8.5 liters)
Vibrator System	Single Shaft Vibrator
Vibrator Oil Grade	API CD or later SAE10W-30
Vibrator Oil Capacity	0.32 quart (0.2 liter)
Handle Type	Vibration Absorbing System (VAS) Folding Handle

Table 2. Engine Specifications

Manufacturer	Honda
Model	GX120
Engine Type	Air-cooled, 4-stroke Gasoline
Maximum Output	3.2 HP (2.4 kW) / 3600 rpm
Operating Engine Speed	3600 rpm
PTO Shaft	Metric
Starter	Recoil
Fuel Tank Capacity	0.53 gal (2.0 liters)
Engine Oil Grade	API SE or later SAE10W-30
Engine Oil Capacity	0.59 quart (0.56 liter)

SPECIFICATIONS

Table 3. Noise and Vibration Emissions

Model	MVC60VTH	MVC60VTHW
Measured Sound Power Level in dB(A)	100	
Guaranteed Sound Power Level in dB(A)	105	
Hand-Arm Vibration in m/s ²	2.7	2.2

NOTES:

1. *Products are tested for sound pressure level in accordance with European Directives 2000/14/EC and 2005/88/EC, relating to Noise Emission in the Environment by equipment for use outdoors.*
2. *Products are tested for hand/arm vibration (HAV) level in accordance with European Directives 2002/44/EC and EN500-4 and ISO 5349-1:2001, ISO 5349-2:2001.*

DIMENSIONS

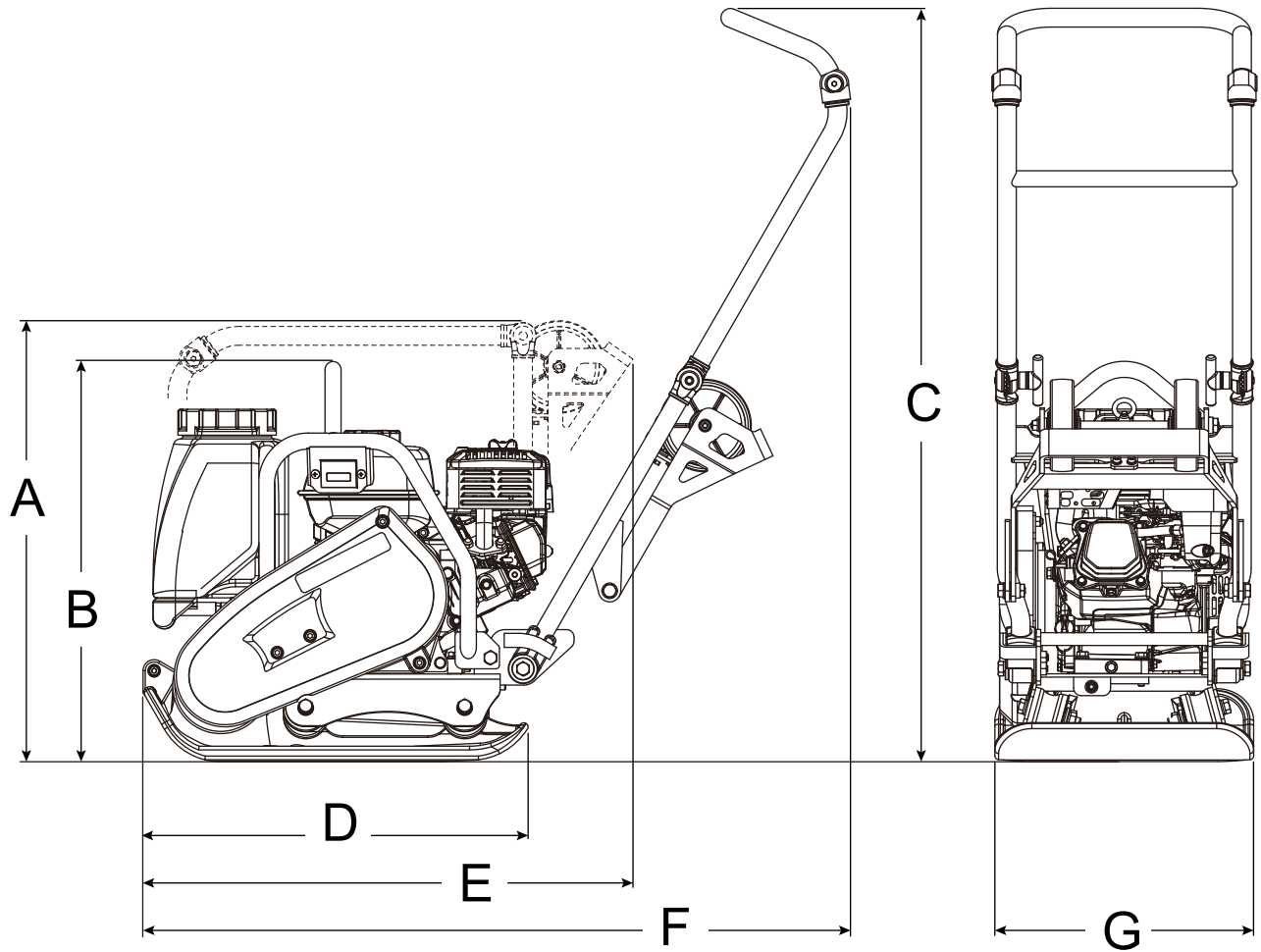


Figure 1. MVC60VTH-THW Dimensions

Table 4. Dimensions		
Reference	Description	Measurement
A	Height (including stowed handle)	23.5 in (596 mm)
B	Height	21.3 in (540 mm)
C	Height (including handle)	39.6 in (1005 mm)
D	Length of Plate	20.5 in. (520 mm)
E	Length of Plate (including stowed handle)	26.1 in (663 mm)
F	Length of Plate (including deployed handle)	38.6 in. (980 mm)
G	Width of Plate	13.8 in. (350 mm)

GENERAL INFORMATION

DEFINITION OF PLATE COMPACTOR

The Mikasa MVC60VTH/THW is a walk-behind, one-way plate compactor designed for the compaction of sand, mixed soils and asphalt. This plate compactor is a powerful compacting tool capable of applying a tremendous force in consecutive high frequency vibrations to a soil surface. Its applications include soil compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

The upper part is made up of power source, handle, belt cover, water tank for sprinkling 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 through v-belt.

POWER TRANSMISSION

The power unit is used the 4-cycle single cylinder air cooled gasoline engine. The engine output shaft is equipped with the centrifugal clutch pulley. The centrifugal clutch pulley is engaged when increasing the engine speed. Then, the engine speed is transferred to the vibrator through the V belt. The engine speed is converted to the specified speed to rotate the eccentric shaft of the vibrator by the ratio of the clutch pulley to the vibrator pulley.

VIBRATORY PLATES

The vibrator generates the vibration by rotating the eccentric shaft. The vibration generated by the vibrator is transferred to the vibrating plate. The vibration of vibrating plate carries the machine forward, and the vibration with the weight of the machine is compacted the ground.

FREQUENCY/SPEED

The compactor's vibrating plate has a frequency of 5,880 vpm (vibrations per minute).

WATER TANK

The water tank provides lubrication to the base plate when compacting asphalt and may be used for dust control in dry work environments.

NOTES

[illegible]

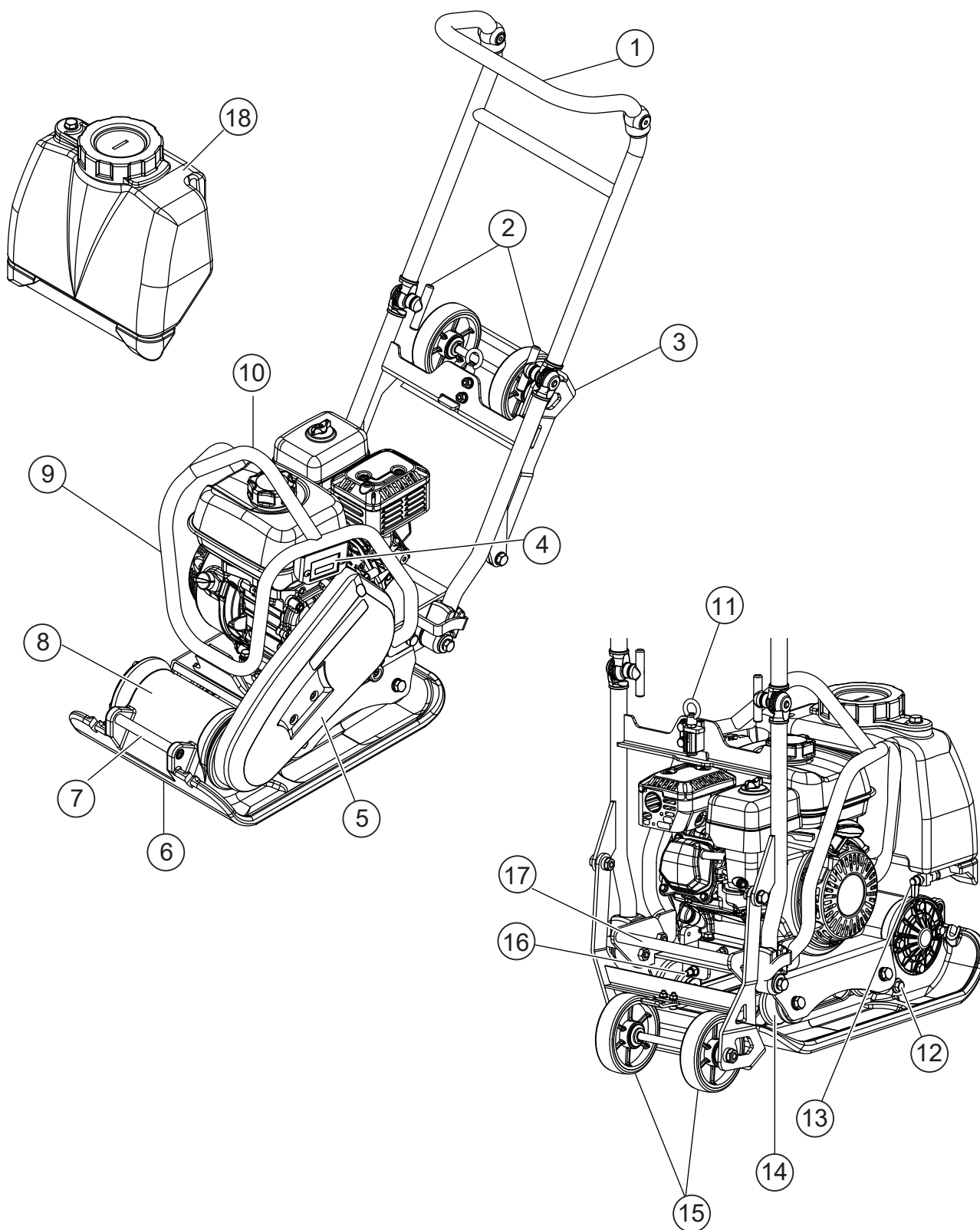


Figure 2. MVC60VTH/THW Controls and Components

Figure 2 shows the location of the basic controls and components of the MVC60VTH/THW Plate Compactor. The function of each control is described below:

1. **Vibration Absorbing System Handle** — Designed to absorb or dampen the vibration during compaction.
2. **Grip Bolt** — Locks the handle in place.
3. **Wheel Kit** — When deployed, used to move plate compactor to a different location.
4. **Hour Meter and Tachometer** — Indicates the number of hours that the machine has been in operation and engine speed.
5. **Belt Cover** — Remove this cover to gain access to the V-belts. **NEVER** run the compactor without the V-belt cover. If the V-belt cover is not installed, the possibility exists that your hand may get caught between the V-belt and clutch, causing serious injury and bodily harm.
6. **Vibrating Plate** — A flat, open plate made of durable cast iron construction used in the compacting of soil.
7. **Lifting Grip** — Used to lift compactor and move to a different location.
8. **Vibrating Motor** — Starts the compacting action.
9. **Guard Frame** — Protects unit from being hit by other objects.
10. **Lifting Hook** — When lifting of the compactor is required either by forklift, crane, etc., tie rope or chain around this lifting point.
11. **Lock for Wheel Kit** — Locks the wheel kit in place.
12. **Drain Plug (Vibrator)** — Used to drain vibrator oil from the machine.
13. **Water Shut OFF Valve (MVC60VTHW only)** — Turn this valve downward to let water flow from the water tank to the water tube.
14. **Shock Absorber** — Helps to control the impact and rebound movement of the compactor and smoothens out bumps and vibrations.
15. **Wheel Kit** — When deployed, used to move plate compactor to a different location.
16. **V-belt Tension Adjuster** — Adjusts the tension of the V-belt to prevent slack.
17. **Lock for Wheel Kit** — Locks the wheel kit in place.
18. **Water Tank (MVC60VTHW only)** — Used when your application requires sprinkling. *Do not fill with diesel fuel or gasoline as this creates both a safety and environmental hazard!*

ENGINE COMPONENTS

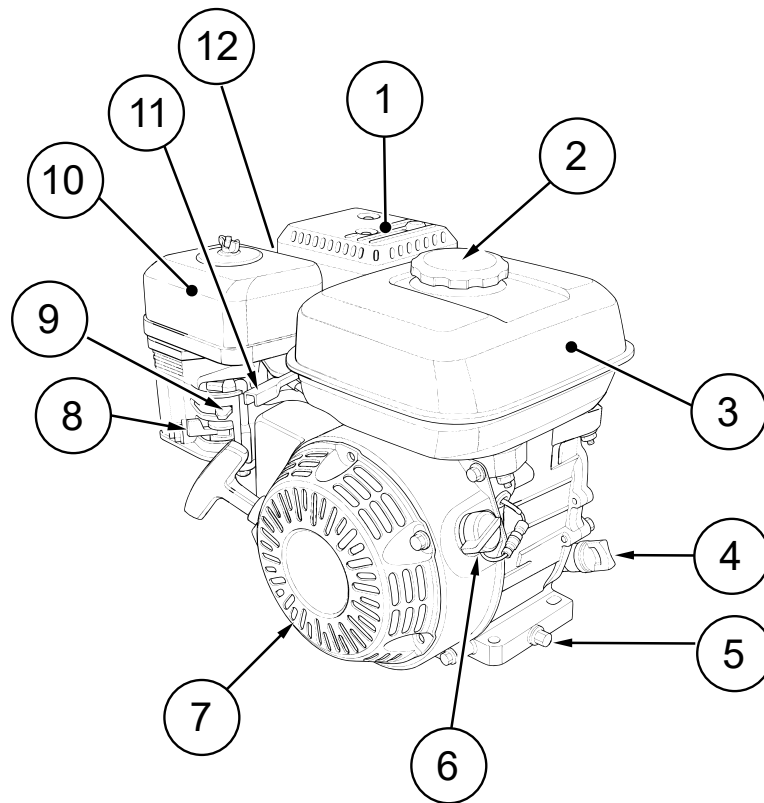


Figure 3. Engine Components

1. **Muffler** — Used to reduce noise and emissions. **NEVER** touch when hot!
2. **Fuel Tank Cap** — Remove this cap to add unleaded gasoline to the fuel tank. Fill with unleaded gasoline.
3. **Fuel Tank** — Refer to Table 5 for fuel tank capacity. Make sure cap is tightened securely. **DO NOT** over fill. For additional information refer to engine owner's manual.
4. **Oil Gauge** — Check to determine if the engine oil is low.
5. **Oil Drain Plug** — Remove this plug to remove oil from the engine crankcase.
6. **Engine ON/OFF Switch** — Turns the engine on and off.
7. **Recoil Starter (Pull Rope)** — Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
8. **Fuel Valve Lever** — Used to control the engine speed.
9. **Choke Lever** — Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
10. **Air Cleaner** — Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cover to gain access to filter element. Reference the maintenance section in this manual for servicing.
11. **Throttle Lever** — Used to start and stop throttle.
12. **Spark Plug** — Provides spark to the ignition system. Set spark plug gap according to engine manufacturer's instructions. Clean spark plug once a week.

BEFORE STARTING

1. Read safety instructions at the beginning of manual.
2. Clean the machine, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one as required.
4. Check the carburetor for external dirt and dust. Clean with dry compressed air.
5. Check fastening nuts and bolts for tightness. Loosened screws or bolts due to vibration, could lead to unexpected accident.
6. Replace any missing or damaged safety and operation decals.

ENGINE OIL CHECK

1. To check the engine oil level, place the compactor on secure level ground with the engine stopped (see Figure 4).
2. If the oil level is low, add oil (Grade API SE or SAE10W-30 above). Oil capacity is 0.59 quart (0.56 liter).

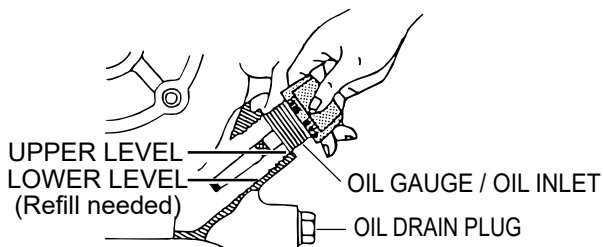


Figure 4. Engine Oil Check

VIBRATOR OIL CHECK

3. Check the vibrator oil level by removing the drain plug (Figure 5).

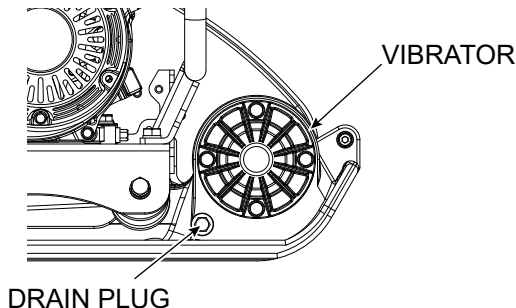


Figure 5. Vibrator Oil Check

4. Make sure the oil level is set at level of drain plug hole. Use the following engine oil: Oil grade APICD or above SAE10W-30. Oil capacity is 0.32 quart (0.3 liter).

V-BELT CHECK

1. Visually check the V-belt condition. If there are cracks, wears and any other damages on the V-belt, replace the V-belt with a new one as required (Figure 6).

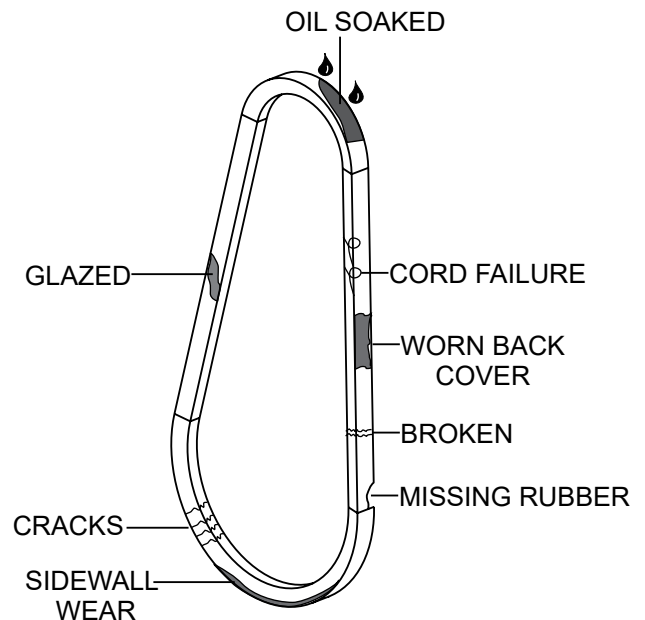


Figure 6. V-Belt Check

2. Check the V-belt tension. The V-belt tension is proper if the V-belt bends 10 to 15 mm when depressed with finger at midway between the clutch and vibrator pulley. (Figure 7).

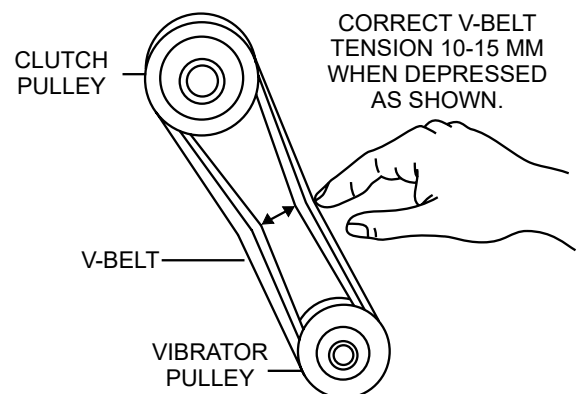


Figure 7. V-Belt Tension

3. If the V-belt tension is not proper, adjust the V-belt tension. Loosen the four bolts securing the engine and turn the nut for the V-belt tensioner until the V-belt tension is correct. Retighten the bolts and recheck the tension and alignment (Figure 8).

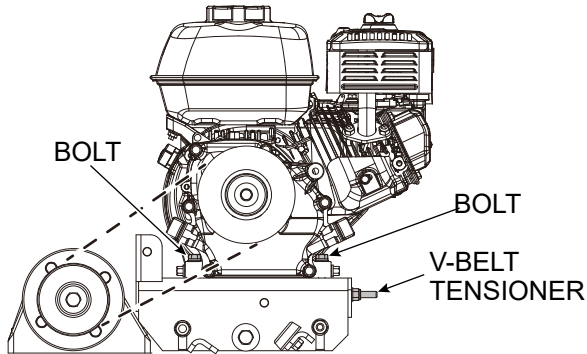


Figure 8. Adjusting V-Belt Tension

FOLDING HANDLE CHECK

1. Check the Vibration Absorbing System (VAS) folding handle to fix at storage or operation position. When fixing the handle position, tighten the grip bolts securely (Figure 9).

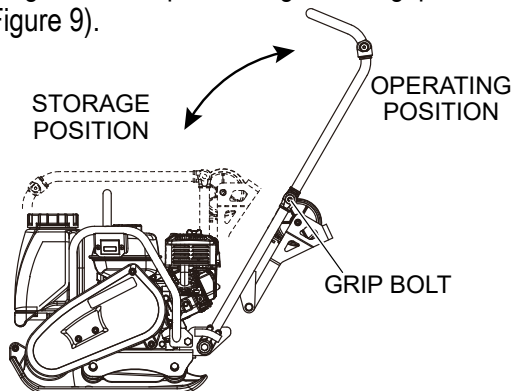


Figure 9. Folding Handle Check

WHEEL KIT CHECK

1. Check the wheel kit lock to make sure it works (Figure 10).

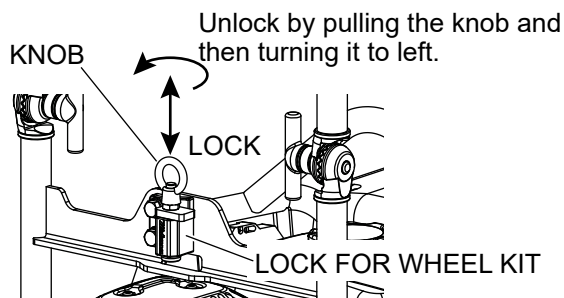


Figure 10. Wheel Kit Lock Check

2. Check that the wheel kit can be moved smoothly from storage to carrying position and vice versa (Figure 11).

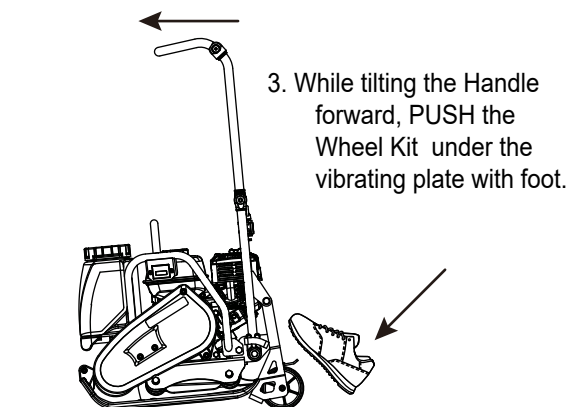
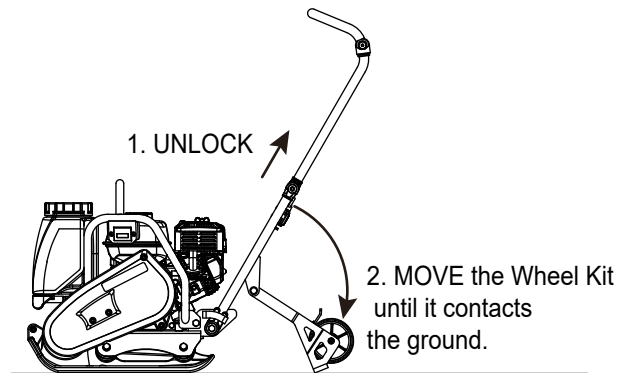


Figure 11. Wheel Kit Position

3. Check that the wheel kit rotates smoothly by moving the machine forward and backward (Figure 12).

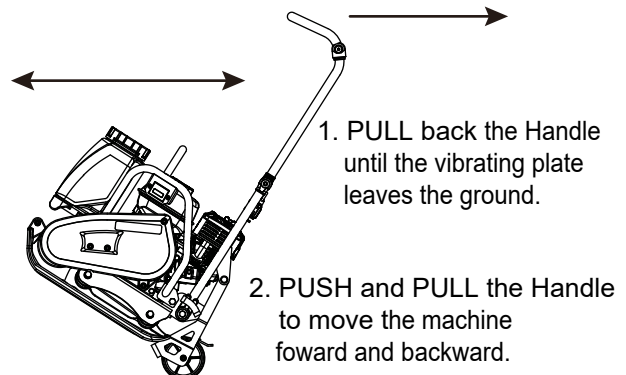


Figure 12. Wheel Kit Movement

CAUTION

DO NOT get oil and gasoline on the wheel kit. Oil and gasoline can cause the rubber to swell and deteriorate. If contaminated with oil or gasoline, immediately clean the wheel kit.

FUEL CHECK

1. Visually check fuel level. If fuel level is low, refuel with unleaded fuel (Figure 13).

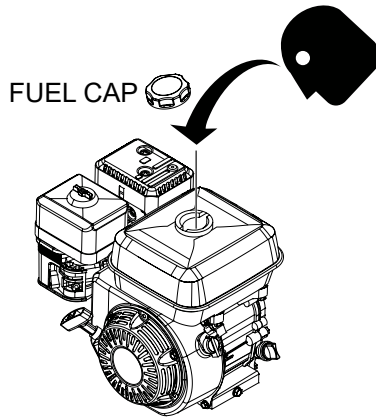



Figure 13. Fuel Check

2. When refueling, be sure to use a strainer for filtration.



! DANGER

Adding fuel to the tank should be done only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up and the area surrounding the engine is dry.

WATER TANK CHECK

1. Check the water tank for leaks after filling up with water (Figure 14).

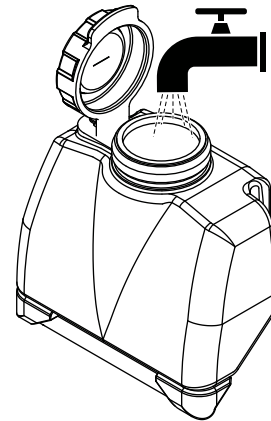


Figure 14. Fill and Leak Check

2. Check the water tank ON and OFF valve (Figure 15).

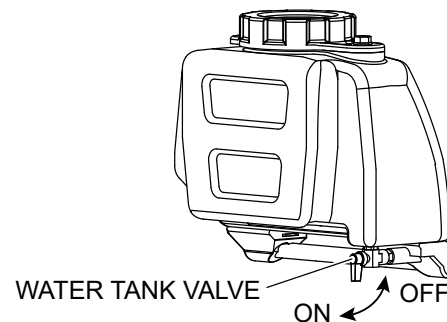


Figure 15. Water Tank ON-OFF Valve

CAUTION

Failure to understand the operation of the plate compactor could result in severe damage to the unit or personal injury.

STARTUP

1. Move the VAS folding handle from storage position to operation position, then secure the handle position by tightening the grip bolts.
2. Move the fuel cock lever to the "ON" position (Figure 16).

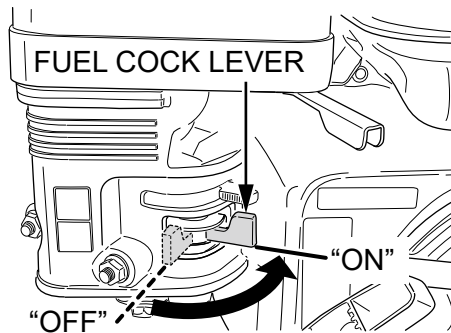


Figure 16. Fuel Cock Lever (ON)

3. To start a cold engine, move the choke lever to the "CLOSED" position. To restart a warm engine, leave the choke lever in the "OPEN" position (Figure 17).

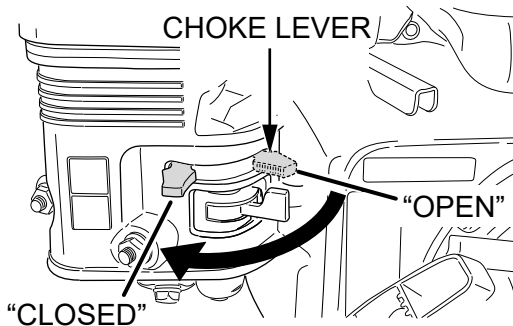


Figure 17. Choke Lever (CLOSED)

4. Move the throttle lever to the idle position (Figure 18).

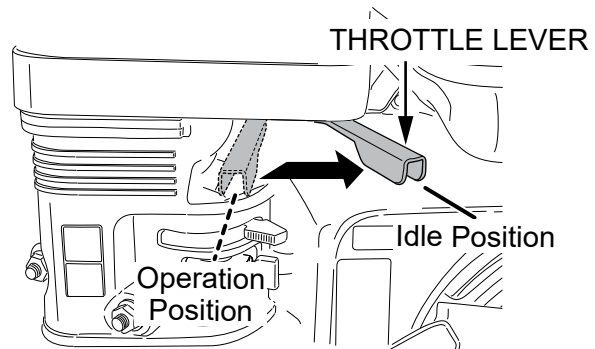


Figure 18. Throttle Lever (IDLE)

5. Turn the engine switch to the "ON" position (Figure 19).

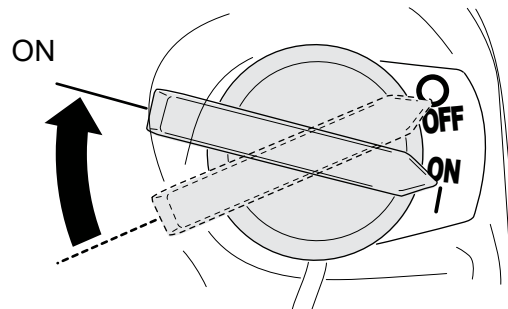


Figure 19. Engine Switch ON

6. Pull the starter grip lightly until you feel resistance. Then, pull it briskly in the direction of the arrow as shown in Figure 20.

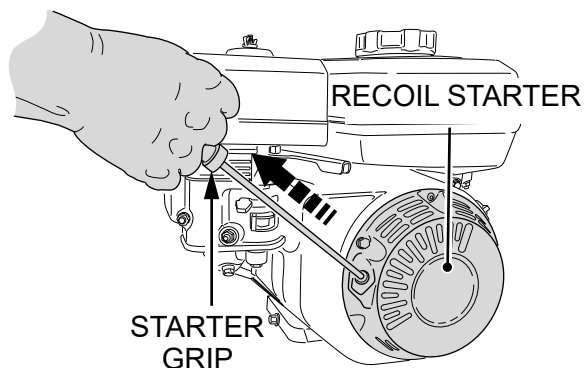


Figure 20. Recoil Start

NOTICE

- Do not pull the starter grip all the length of the rope.
- Be careful not to pull it too hard as it might break or come off.
- Return it gently to prevent damage to the recoil starter.

OPERATION

7. If the choke lever has been moved to the "CLOSED" position to start the engine, gradually move it to the "OPEN" position as the engine warms up.

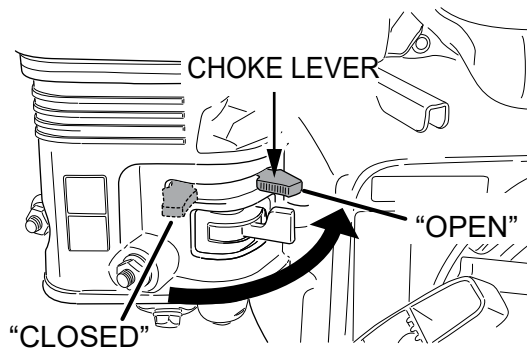


Figure 21. Choke Lever (OPEN)

NOTICE

When starting the cold engine, if the throttle lever is moved from the idle position about 1/3 of the way to the operation position, the centrifugal clutch may slip as soon as the engine has started.

This may cause a failure of the centrifugal clutch, abnormal vibration of the machine, which is very dangerous.

As soon as the engine has started, return the throttle lever to the idle position.

OPERATION

CAUTION

During operation, pay sufficient attention to dangerous objects and obstacles in the direction of your work and surrounding area. During operation, never touch the moving parts and high temperature parts of the machine.

CAUTION

Always move the throttle lever quickly, without hesitation. Increasing the engine speed slowly causes the clutch to slip.

1. After the engine has been started, move the throttle lever quickly to the operation position. The machine starts vibrating (Figure 22).

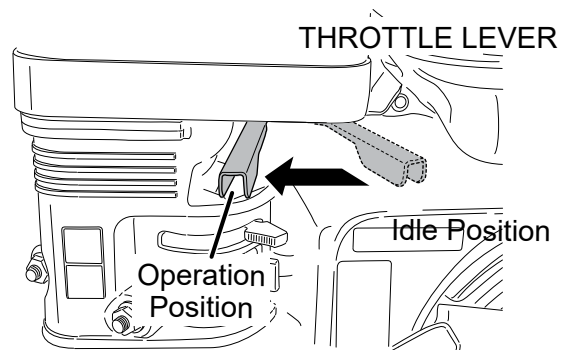


Figure 22. Throttle Lever (Operation)

2. To suspend the work, return the throttle lever to the idle position quickly.

CAUTION

- **DO NOT** use this machine on ground that is harder than the machine can handle, or for driving pilings or tamping rock beds.
- Furthermore, use of the machine on sloping ground, such as the side of an embankment, may make the machine unstable and can cause an accident. It can also result in premature machine wear due to uneven loads on the machine.
- Only use the machine for compacting earth and sand, soil, and asphalt.
- **DO NOT** use the machine for other types of jobs.

NOTICE

When machine is used on ground that contains clay or high water percentage, the ground surface tends to stick to the vibrating plate, and the machine may slow down or not compact.

Check the bottom of the vibrating plate to see if there is any clay adhered to it.

Let the ground dry to the appropriate ground condition before using this machine to get good compaction performance.

STOPPING

CAUTION

Never stop the engine suddenly while working at high speed.

1. Move the throttle lever to the idle position. Cool down the engine for 3 to 5 minutes at idle speed before stopping (Figure 23).

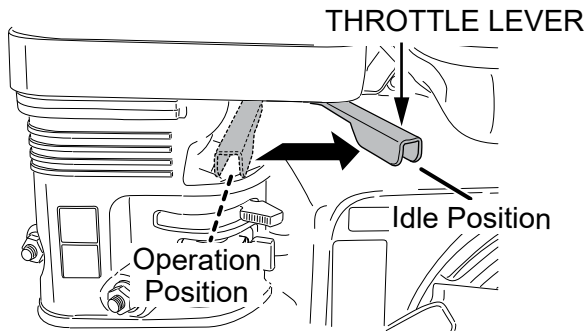


Figure 23. Throttle Lever (IDLE)

2. Turn the engine switch to the OFF position (Figure 24).

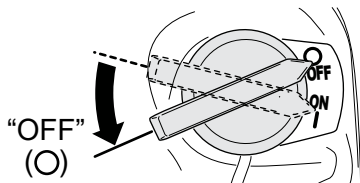


Figure 24. Engine Switch (OFF)

3. Move the fuel cock lever to the OFF position (Figure 25).

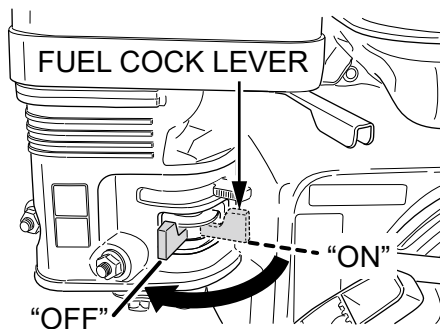


Figure 25. Fuel Cock Lever (OFF)

WATER TANK (MVC60VTHW ONLY)

1. If your application requires sprinkling work, open the valve of water tank (Figure 26).

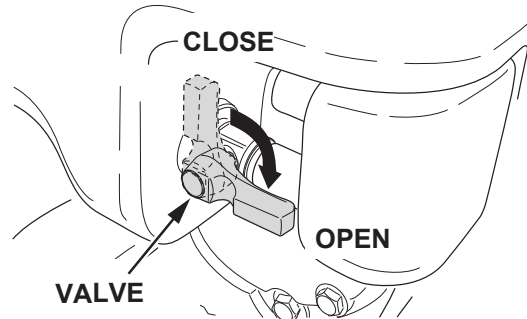


Figure 26. Water Tank Valve (Open)

2. When stopping sprinkling work, close the valve of water tank (Figure 27).

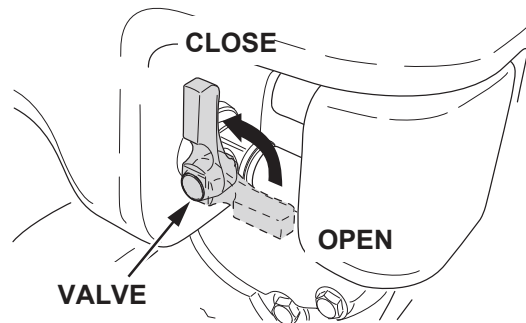


Figure 27. Water Tank Valve (Close)

TRANSPORTATION AND STORAGE

TRANSPORTATION

1. Stop the engine before transporting the machine.
2. Always drain the fuel before transportation.
3. Do not move the machine until the engine and main body have cooled down enough.
4. Tie down the machine securely to prevent the machine from moving or falling.
5. Make sure there is no breakage of guard frame and shock absorbers nor loose or missing bolts.
6. Use an intact lifting cable (wire or rope) without any deformation with sufficient strength.
7. Slowly lift upward without applying any impact. Never let people or animals go under the lifted machine.
8. For safety reasons, do not lift to a height that is higher than necessary.
9. Use a crane or lift for loading and unloading the machine.
10. Designate a person to guide the loading and unloading, and always work under the instruction of that person.
11. When lifting, always use the lifting hook. Never lift by using the handle as the lifting hook (Figure 28).

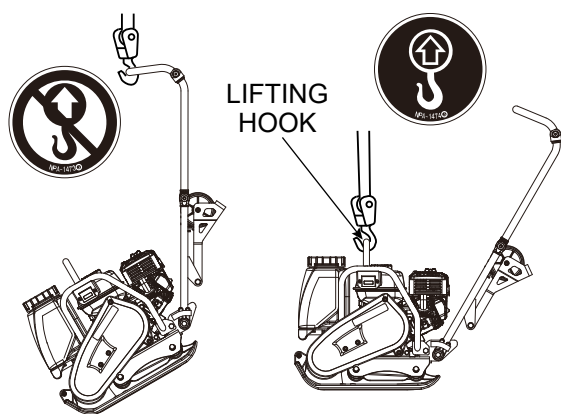


Figure 28. Lifting the Machine

STORAGE

- Wash off dirt and soil with water. While washing, be careful not to splash water on the electric components such as the battery, the engine muffler, and air cleaner.
- Store the machine on hard and level ground. Then, tie down the machine securely to prevent moving.
- Store the machine in a dry and clean place out of direct sunlight.
- Cover the machine to keep out dust. Do not leave the machine outdoors.
- When not used for a long period of time, drain the fuel from the fuel tank and the carburator.
- When the machine is used after a long storage period, check the engine oil condition and fill the fresh gasoline.

NOTICE

Do not get oil and gasoline on the rubber parts such as the shock absorbers. Oil and gasoline cause the rubber to swell and deteriorate. If contaminated with oil or gasoline, immediately clean them.

CAUTION

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

INSPECTION AND MAINTENANCE TABLES

To make sure your plate compactor is always in good working condition, carry out the maintenance inspection in accordance with Table 7 daily, before starting operation.

NOTICE

This inspection interval is for operation under normal conditions. Adjust your inspection interval based on the number of hours the plate compactor has been in use, and the type of working conditions it is being used in.

Table 6. Tightening Torque (kg cm)

Material	Diameter							
	6mm	8mm	10mm	12mm	14mm	16mm	18mm	20mm
4T	70	150	300	500	750	1,100	1,400	2,000
6-8T	100	250	500	800	1,300	2,000	2,700	3,800
11T	150	400	800	1,200	2,000	2,900	4,200	5,600
*	100	300-350	650-700					

* (for aluminum counterpart)
(Threads in use with this machine are all right-handed)
Material and quality of material is marked on each bolt and screw.

Table 7. Inspection

Item	Type of Inspection	Interval
Fuel Tank	Leak, Level, Dirt	Daily
Fuel System	Leak, Dirt, Clog	Daily
Air Cleaner	Dust, Dirt	Daily
Engine Oil	Leak, Level, Dirt	Daily
Vibrator Oil	Leak, Level, Dirt	Daily
V-Belt	Tension, Crack, Wear	Daily
Lifting Hook	Break, Crack, Looseness	Daily
Lifting Grip	Break, Crack	Daily
Shock Absorber	Crack, Damage, Wear	Daily
Nuts and Bolts	Looseness, Coming off	Daily
Vibrator Oil	Change	Every 10 hours
Engine Oil Filter	Change	After first 20 hours
Engine Oil Filter	Wash	Every 100 hours
Engine Oil	Change	After first 20 hours then every 100 hours
V-Belt	Tension, Crack, Wear, Failure	Every 200 hours
Clutch	Wear, Failure	Every 200 hours
Fuel Filter	Change	Every 300 hours
Engine Oil Filter	Change	Every 300 hours
Fuel Lines	Change	Every 2 years
Air Cleaner Element	Change	As Needed

ENGINE OIL CHANGE

1. Change the engine oil, first in 20 hours of operation and every 100 hours afterwards.

AIR CLEANER

1. When the air cleaner element becomes dirty, the engine will not start smoothly, and will not get sufficient output. It will affect the machine operation and shorten engine life.
2. Check air cleaner daily and clean element as needed. Refer to engine manual.
3. When element cannot be cleaned, replace with new one (Figure 29).

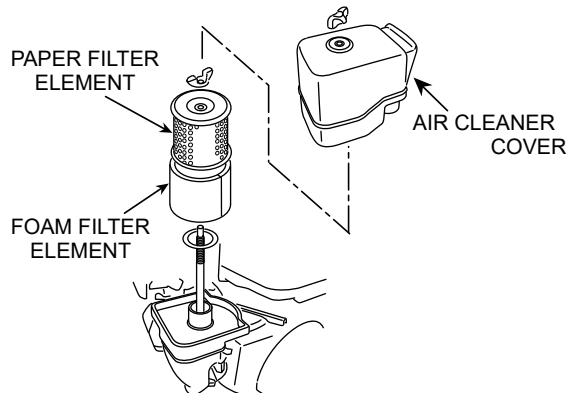


Figure 29. Air Cleaner Components

VIBRATOR OIL CHANGE

1. At every 100 hours of operation, check that the vibrator oil level is acceptable, by removing the drain plug.
2. At every 300 hours of operation, change the vibrator oil. When draining the oil from the port of the drain plug, tilt the machine with a sleeper or the like placed under the rubber rolls or use the oil changer.

NOTICE

Do not overfill. After draining the vibrator oil, some oil still remains in vibrator case. So make sure that the oil level is correct after filling oil.

V-BELT CHECK AND CHANGE

1. Every month or every 200 hours of operation, visually check the V-belt condition. If there are cracks, wears and any other damage, replace the V-belt with a new one.
2. Check the V-belt tension. The V-belt tension is proper if the V-belt bends 10 to 15 mm when depressed with finger at midway between the clutch and vibrator pulleys. See Inspection section.
3. If the V-belt tension is not proper, adjust the V-belt tension. Loosen the four bolts securing the engine and turn the nut for the V-belt tension adjuster until the V-belt tension is correct. Retighten the bolts and recheck the tension and alignment. See Inspection section.

CLUTCH CHECK AND CHANGE

1. Check the clutch while checking the V-belt.
2. Visually check for burning of the clutch shoes, wearing of the clutch linings and condition of the V-groove pulley.
3. If the clutch linings are worn, the clutch slips and transmission is not performed properly. Replace the clutch with a new one as required.

TROUBLESHOOTING

Troubleshooting (Plate Compactor)		
Symptom	Possible Problem	Solution
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 vibrator?	Drain excess oil and fill to proper level.
	Malfunction in vibrator housing?	Check eccentric, gears and counter weights.
	Shock Absorber Failure?	Replace shock absorber.
	Insufficient engine output?	Check engine, compression etc.
No Vibration	No fuel	Add fuel
	Broken or Loose V-Belt	Replace or Fix
	Broken or Slipping Clutch	Replace
	Broken Vibrator	Replace

TROUBLESHOOTING

Troubleshooting (Engine)		
Symptom	Possible Problem	Solution
Difficult to start, fuel is available, but no spark at spark plug.	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
	Spark plug is red?	Check transistor ignition unit.
	Spark plug is bluish white?	If insufficient compression, repair or replace engine. If injected air leaking, correct leak. If carburetor jets clogged, clean carburetor.
	No spark present at tip of spark plug?	Check if transistor ignition unit is broken, and replace defective unit. Check if voltage cord cracked or broken and replace. Check if spark plug is fouled and replace.
	No oil?	Add oil as required.
	Oil pressure alarm lamp blinks upon starting? (if applicable)	Check automatic shutdown circuit, oil sensor. (if applicable)
Difficult to start, fuel is available, and spark is present at the spark plug.	ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirty?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser.
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, fuel is available, spark is present and compression is normal.	Wrong fuel type?	Flush fuel system, replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
	Choke open?	Close choke.
Difficult to start, fuel is available, spark is present and compression is low.	Suction/exhaust valve stuck or protruded?	Reseat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and/or piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present at carburetor.	No fuel in fuel tank?	Fill with correct type of fuel.
	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock lever, replace if necessary.
	Fuel filter/lines clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

OPERATION MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Inc.

(310) 537- 3700
6141 Katella Avenue Suite 200
Cypress, CA 90630
E-MAIL: mq@multiquip.com
WEBSITE: www.multiquip.com

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Multiquip

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4110 Industriel Boul.
Laval, Quebec, Canada H7L 6V3
E-MAIL: infocanada@multiquip.com

UNITED KINGDOM

Multiquip (UK) Limited Head Office

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Unit 2, Northpoint Industrial Estate, Globe Lane,
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