

# OPERATION AND PARTS MANUAL



*Mikasa* SERIES  
**MODEL MVC-88VGH/VGHW**  
**ONE-WAY PLATE COMPACTOR**  
**(HONDA GASOLINE ENGINE)**

Revision #2 (08/06/10)



[www.discount-equipment.com](http://www.discount-equipment.com)

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
Numbers – Purchase  
or Request Quote**

**Search Manuals**

Enter your information to help us find the right parts manual for your machine.

\* Brand:

\* Model:

\* Serial:

\* Part Number:

SEARCH

**Can't Find Part or  
Manual? Request Help  
by Manufacturer,  
Model & Description**

**Parts Order Form**

Please fill in the following information to help us find the right part for your machine.

Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Description:	<input type="text"/>
Part Number:	<input type="text"/>
Quantity:	<input type="text"/>
Notes:	<input type="text"/>

Submit

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

**Need parts?**

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar



**CALIFORNIA — Proposition 65 Warning**

Gasoline engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

# MVC-88VGH/VGHW PLATE COMPACTOR — TABLE OF CONTENTS

## Multiquip — MVC88VGH/VGHW Plate Compactor

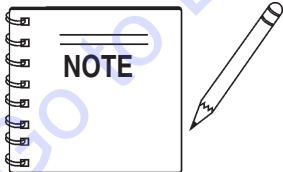
Proposition 65 Warning .....	2
Table Of Contents .....	4
Parts Ordering Procedures .....	5
Safety Information .....	6-10
Specifications (Compactor/Engine) .....	11
General Information .....	12
Components (Plate Compactor) .....	13
Components (Engine) .....	14
Inspection .....	15-16
Initial Start-Up .....	17-18
Operation .....	18
Maintenance .....	19-21
Preparation For Long Term Storage .....	22
Troubleshooting (Engine) .....	23-24
Troubleshooting (Plate Compactor) .....	24
Explanation Of Codes In Remarks Column .....	26
Suggested Spare Parts .....	27

## Honda GX160U1QMX2 Engine

Cylinder Head Assembly .....	38-39
Cylinder Barrel (Recoil) Assembly .....	40-41
Crankcase Cover Assembly .....	42-43
Crankshaft Assembly .....	44-45
Piston/Rings Assembly .....	46-47
Camshaft Assembly .....	48-49
Recoil Starter .....	50-51
Fan Cover Assembly .....	52-53
Carburetor Assembly .....	54-55
Air Cleaner Assembly .....	56-57
Muffler Assembly .....	58-59
Fuel Tank Assembly .....	60-61
Cooling Fan & Flywheel Assembly .....	62-63
Ignition Coil Assembly .....	64-65
Control Assembly .....	66-67
Terms and Conditions Of Sale — Parts .....	68

## Component Drawings

Nameplate and Decals .....	28-29
Body Assembly .....	30-31
Vibrator Assembly .....	32-33
Sprinkler Assembly (Option) .....	34-35
Transport Wheel Assembly (Option) .....	36-37



*Specification and part number  
are subject to change without  
notice.*

# MVC-88VGH/VGHW PLATE COMPACTOR — 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

# MVC-88VGH/VGHW PLATE COMPACTOR — 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.



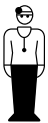
- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **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.



# MVC-88VGH/VGHW PLATE COMPACTOR — 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.

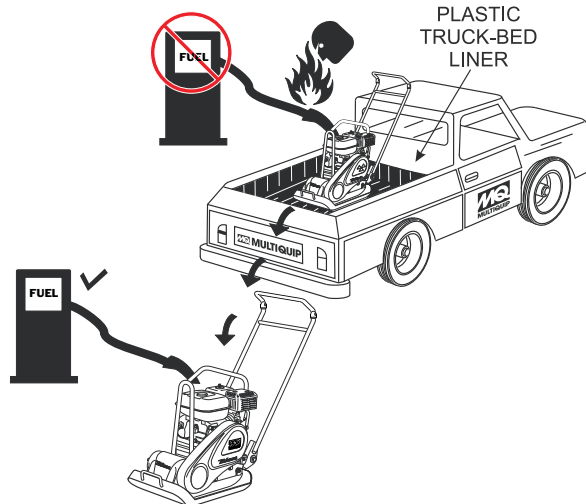



# MVC-88VGH/VGHW PLATE COMPACTOR — SAFETY INFORMATION

## 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.

# MVC-88VGH/VGHW PLATE COMPACTOR — SPECIFICATIONS

**TABLE 1. Specifications (Compactor)**

Models	MVC-88VGH/MVC-88VGHW
Centrifugal Force	3,450 lbs. (1,564.9 kg)
Number of Vibrations	5,800 vibrations/min
Traveling Speed	56 ft./min (17 meters/min)
Plate Size (LxW)	19.7 x 20.7 in. .500 x .525 mm
Operating Weight (VGH) Operating Weight (VGHW)	196 lbs. (89.0 kg.) 217 lbs. ( 98.5 kg.)
Fuel Tank Capacity	3.8 qt. (3.6 liters)
Water Tank Capacity VGHW Model Only	13.7 qt. (13.0 liters)
Max. Area Of Compaction	5800 sq. ft./hr.

**Table 2. Specifications (Engine)**

<b>Engine</b>	<b>Model</b>	<b>HONDA GX160U1QMX2</b>
	Type	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine
	Bore X Stroke	2.7 in. x 1.8 in. (68 mm x 45 mm)
	Displacement	163 cc (9.9 cu-in)
	Max Output	5.5 H.P./3600 R.P.M.
	Fuel Tank Capacity	Approx. 0.95 U.S. gallons (3.6 liters)
	Fuel	Unleaded Automobile Gasoline
	Lube Oil Capacity	.60 liters (0.63 qts)
	Speed Control Method	Centrifugal Fly-weight Type
	Starting Method	Recoil Start
<b>Dry Net Weight</b>	<b>33 lbs (15 Kg.)</b>	

# MVC-88VGH/VGHW PLATE COMPACTOR — GENERAL INFORMATION

## Definition of Plate Compactor

The Mikasa MVC-88VGH/VGHW is a walk behind, 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 compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

## Vibratory Plates

The vibratory plates of the MVC-88GH/GHW produce low amplitude high frequency vibrations, designed to compact granular soils and asphalt.

The resulting vibrations cause forward motion. The engine and handle are vibration isolated from the vibrating plate.

## Frequency/Speed

The compactor's vibrating plate has a frequency range between 5800 vpm (vibrations per minute). The travel speed of the compactor is approximately 17 meters/minute (56 ft./minute).

## Engine

The Mikasa MVC-88VGH/VGHW Plate Compactor is equipped with a Honda GX160U1QMX2 air cooled, 4-cycle gasoline engine. The engine drives an eccentric weight at a high speed to develop a compaction force. In addition this engine is equipped with an **Oil Alert** system that will automatically stop the engine before the engine falls below safe engine oil operating limits. Always be sure to check the engine oil level prior to starting the engine.

## Controls

Before starting the MVC-88VGH/VGHW Plate Compactor identify and understand the function of the controls and components.

## MVC-88VGH/VGHW PLATE COMPACTOR — COMPONENTS (COMPACTOR)

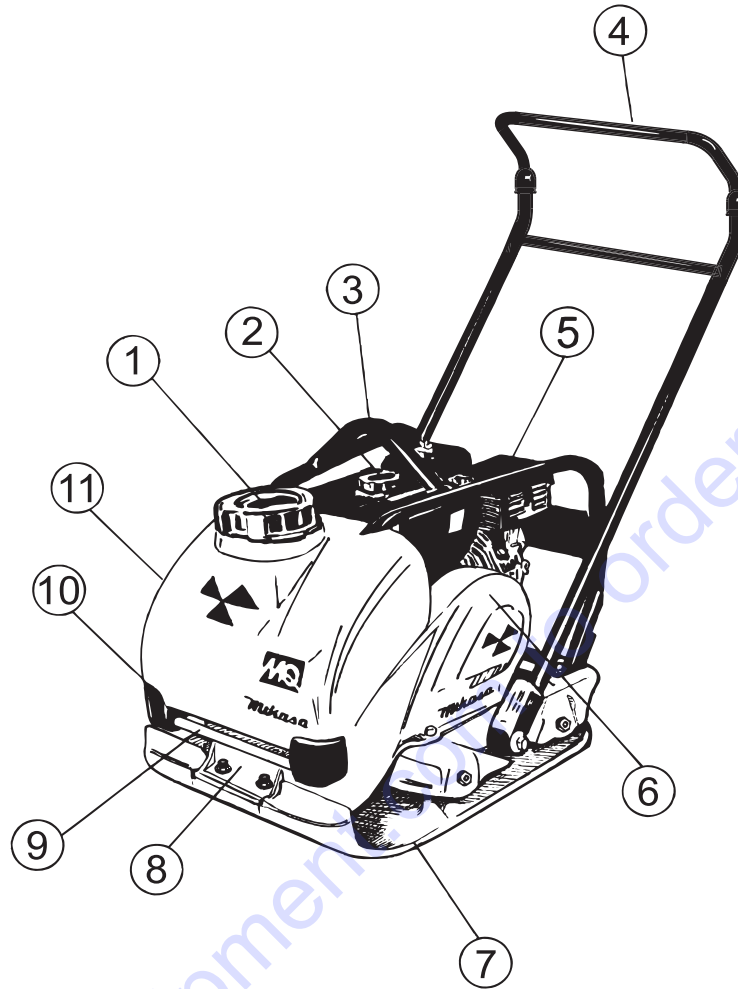


Figure 1. Plate Compactor Controls

Figure 1 shows the location of the basic controls and components of the MVC-88VGH/VGHW Plate Compactor. The function of each control is described below:

1. **Water Tank Cap (VGHW Only)** – Remove this cap to add water to the water tank.
2. **Fuel Tank Cap** – Remove this cap to add fuel.
3. **Lifting Bale** – When lifting of the compactor is required either by forklift, crane etc., tie rope or chain around this lifting point.
4. **Handle Bar** – When operating the compactor use this handle bar to maneuver the compactor.
5. **Gasoline Engine** – This plate compactor uses a HONDA GX160U1QMX2 engine. Refer to the HONDA owner's manual for engine information and related topics.
6. **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.
7. **Vibrating Plate** – A flat, open plate made of durable cast iron construction used in the compacting of soil.
8. **Vibration Case** – Encloses the eccentric, gears and counter weights.
9. **Water Tube (Sprinkler)** – Supplies water to the soil via a splash plate.
10. **Water Shut-Off Valve** – Turn this valve downward to let water flow from the water tank to the water tube.
11. **Water Tank (VGHW only)** – Holds 13.7 quarts of water (removable, no tools required).

# MVC-88VGH/VGHW PLATE COMPACTOR — COMPONENTS ( ENGINE )

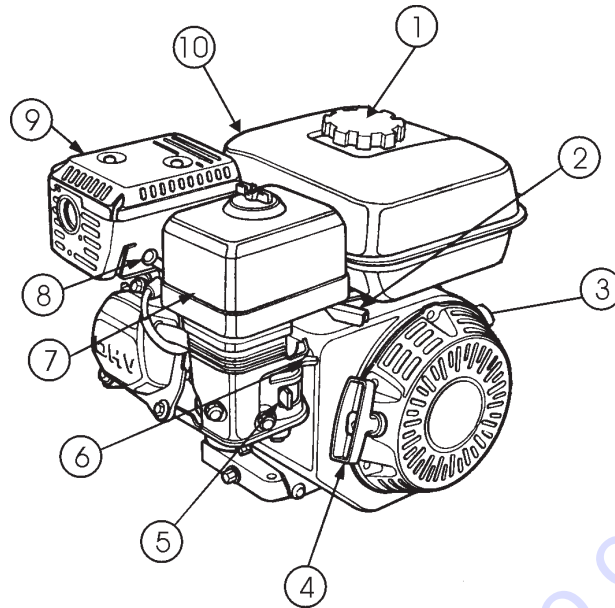


Figure 2. Engine Controls & Components


## ENGINE COMPONENTS

The engine (Figure 2) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturers Engine manual for instructions & details of operation and servicing.

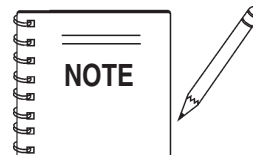
1. **Fuel Filler Cap** – Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.

**! DANGER** **Explosive Fuel Hazard**

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.




5. **Fuel Valve Lever** – **OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel.
6. **Choke Lever** – Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
7. **Air Cleaner** – Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cannister to gain access to filter element.



Operating the engine without an air filter, with a damaged air filter, or a filter in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

**! WARNING** **Burn Hazard**

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.



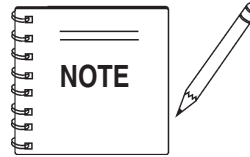
2. **Throttle Lever** – Used to adjust engine RPM speed (lever advanced forward - **SLOW**, lever back toward operator - **FAST**).
3. **Engine ON/OFF Switch** – **ON** position permits engine starting, **OFF** position stops engine operations.
4. **Recoil Starter (pull rope)** – Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.

8. **Spark Plug** – Provides spark to the ignition system. Set spark plug gap to 0.6 - 0.7 mm (0.028 - 0.031 inch) Clean spark plug once a week.
9. **Muffler** – Used to reduce noise and emissions.
10. **Fuel Tank** – Holds unleaded gasoline. For additional information refer to engine owner's manual.

# MVC-88VGH/VGHW PLATE COMPACTOR — INSPECTION

## Before Starting

1. Read safety instructions at the beginning of manual.
2. Clean the compactor, 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 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.



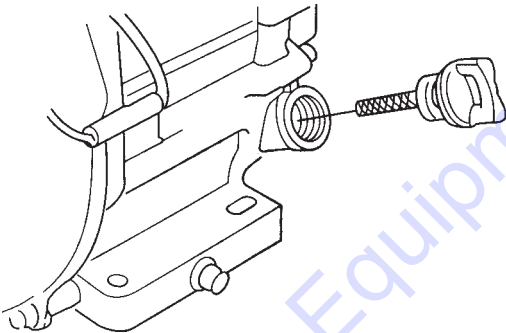
The Oil Alert System will automatically stop the engine before the engine falls below safe limits. Always be sure to check the engine oil level prior to starting the engine.

**Table 3. Oil Type**

Season	Temperature	Oil Type
Summer	25°C or Higher	SAE 10W-30
Spring/Fall	25°C~10°C	SAE 10W-30/20
Winter	0°C or Lower	SAE 10W-10

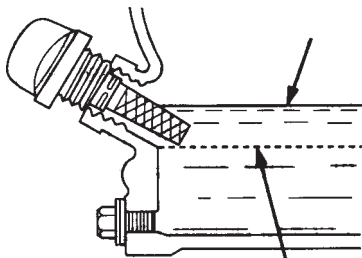
## Engine Oil Check

1. To check the engine oil level, place the pump on secure level ground with the engine stopped.
2. Remove the filler dipstick from the engine oil filler hole (Figure 3) and wipe clean.




**Figure 3. Engine Oil Dipstick (Removal)**

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low (Figure 4), fill to the edge of the oil filler hole with the recommended oil type (Table 3). Maximum oil capacity is 0.63 quarts (0.60 liters)




**Figure 4. Engine Oil Dipstick (Oil Level)**



**DANGER**

**Explosive Fuel Hazard**



Adding fuel to the fuel 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. **DO NOT** attempt to refuel the compactor if the engine is *hot!* or *running*.

## Fuel Check

1. Remove the gasoline cap located on top of fuel tank.
2. Visually inspect to see if the fuel level is low. If fuel is low, replenish with unleaded fuel.
3. When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel *immediately!*

## V-Belt Check

### CAUTION

**NEVER** attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 5) gets caught between the V-belt and the clutch. Always use safety gloves.

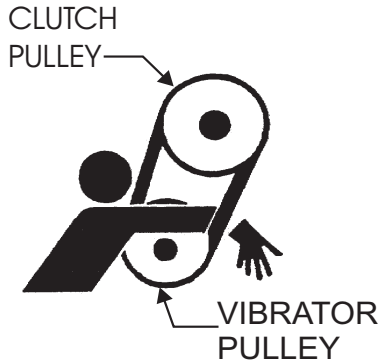


Figure 5. V-Belt Hazard

1. To check the V-belt tension, remove the three bolts that secure the belt cover to the frame as shown in Figure 6.

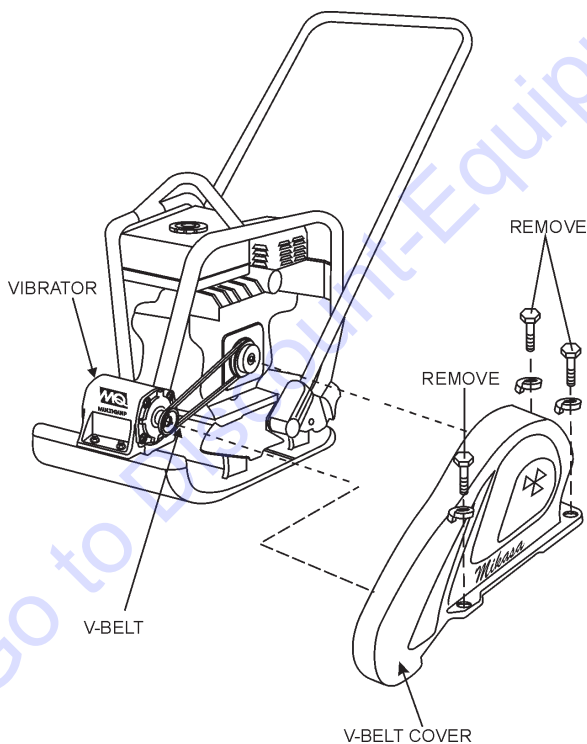


Figure 6. V-Belt Cover Removal

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

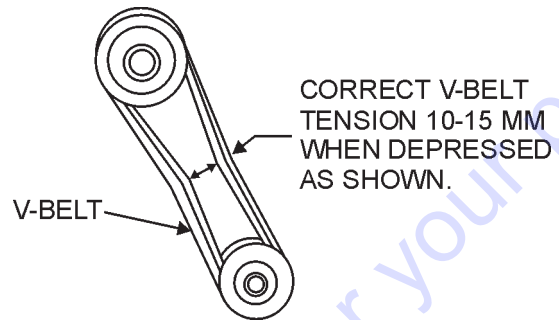


Figure 7. V-Belt Tension

3. A loose V-belt will decrease the power transmission output, causing reduced compaction and premature wear of the belt.
4. If the V-belt becomes worn or loose, replace it.

## Vibrator Oil Check

1. Place the MVC-88VGH/VGHW plate compactor horizontally on a flat surface. Make sure the compactor is level when checking the oil in the vibrator assembly.
2. Check vibrator oil level by removing the plug (vibrator oil gauge) as shown in Figure 8. The oil level should be up to the oil plug. The vibrator holds 140 cc (approximately 4 ounces). **IMPORTANT**, if oil is required, replace using only SAE10W-30 motor oil.

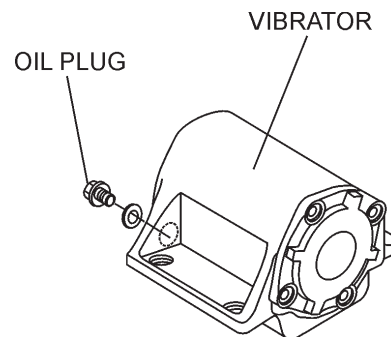
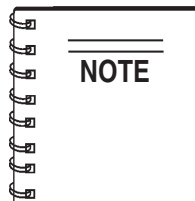


Figure 8. Vibrator Oil Plug

## CAUTION

**DO NOT** attempt to run the compactor until the Safety and Initial Start-up sections have been read and understood.



The **CLOSED** position of the choke lever enriches the fuel mixture for starting a **COLD** engine. The **OPEN** position provides the correct fuel mixture for normal operation after starting, and for restarting a warm engine.

1. Place the **fuel valve lever** (Figure 9) in the "ON" position.

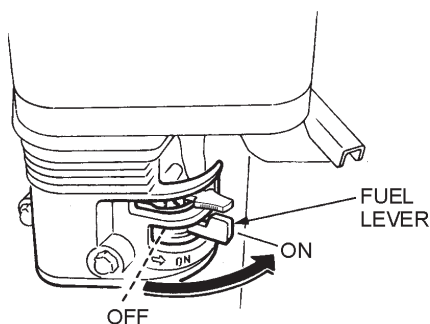


Figure 9. Fuel Valve Lever

2. Place the **Engine ON/OFF switch** (Figure 10) in the "ON" position.

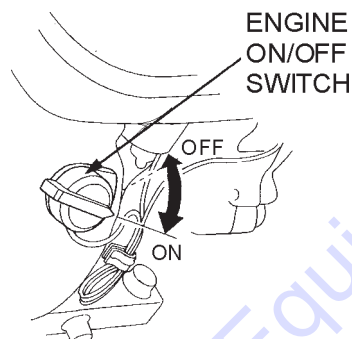


Figure 10. Engine ON/Off Switch

3. Place the **Choke Lever** (Figure 11) in the "OPEN" position.

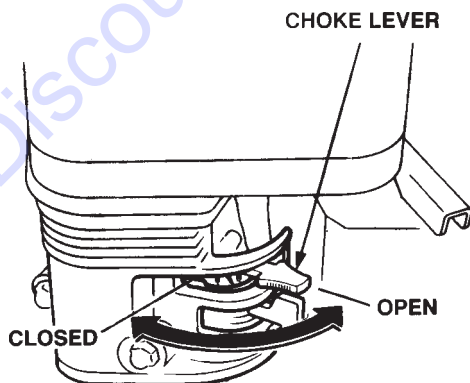


Figure 11. Choke Lever

4. Place the **throttle lever** (Figure 12) halfway between **fast** and **slow**.

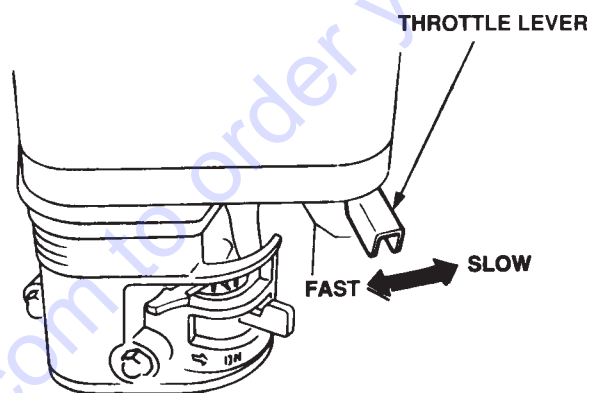


Figure 12. Throttle Lever

5. Grasp the starter grip (Figure 13) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding the compression point. Rewind the rope a little from that point and pull out sharply.

## CAUTION

**DO NOT** pull the starter rope all the way to the end  
**DO NOT** release the starter rope after pulling. Allow it to rewind as soon as possible.

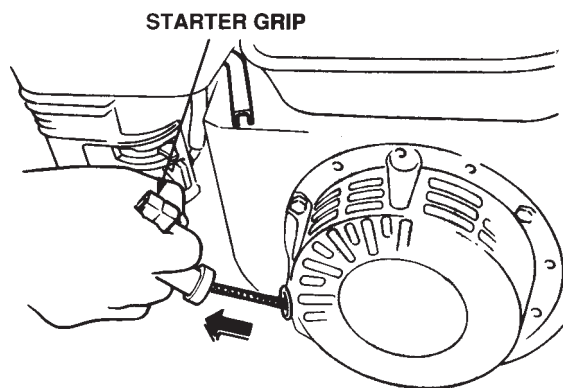


Figure 13. Starter Grip



# MVC-88VGH/VGHW— INITIAL START-UP/OPERATION

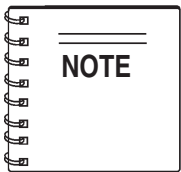
6. If the engine has started, slowly return the choke lever (Figure 11) to the **CLOSED** position. If the engine has not started repeat steps 1 through 5.
7. Before the compactor is put into operation run the engine for 3-5 minutes.
8. Check for abnormal engine noises or fuel leaks.

## Operation

### CAUTION

Make sure to follow all safety rules referenced in the safety section of this manual before operating compactor. Keep work area clear of debris and other objects that could cause damage to the compactor or bodily injury.

1. Once the engine has started, move the engine throttle lever quickly to the **fast** position.
2. With the throttle lever in the fast position, the engine speed should be around 2,300 RPM, therefore engaging the centrifugal clutch.



**ALWAYS** move the throttle lever quickly without hesitation, because increasing the engine speed slowly causes the clutch to slip.

5. Firmly gasp the compactor's handle bar with both hands, the compactor will begin moving forward.
6. Slowly walk behind the compactor and be on the lookout for any large objects or foreign matter that might cause damage to the compactor or bodily injury.
7. Compactor traveling speed may drop on soils which contain clay, however there may be cases where traveling speed drops because the compaction plate does not leave the ground surface easily due to the composition of the soil. To rectify this problem do the following:
  - Check the bottom plate to see if clay or equivalent material has been lodge in the plate mechanism. If so, wash with water and remove.
  - Remember the compactor does not work as efficiently on clay or soils that have a high moisture content level.
  - If the soil has a high moisture level, dry soil to appropriate moisture content level or carry out compaction twice.

## Stopping the Engine

### CAUTION

**NEVER** stop the engine suddenly while working at high speeds.

1. Place the **throttle lever** (Figure 12) in **slow** position, and listen for the engine speed to decrease.
2. Place the **Engine ON/OFF switch** (Figure 10) in the "**OFF**" position.
3. Place the **fuel valve lever** (Figure 9) in the "**OFF**" position.

## CAUTION

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

## CAUTION

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

### Inspection and Maintenance Service Tables.

- To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with Tables 4 through 6.

## CAUTION

Fuel piping and connections should be replaced every 2 years.

### Table 4. Engine Maintenance Schedule

DESCRIPTION (3)	OPERATION	BEFORE	FIRST MONTH OR 10 HRS.	EVERY 3 MONTHS OR 25 HRS.	EVERY 6 MONTHS OR 50 HRS.	EVERY YEAR OR 100 HRS.	EVERY 2 YEARS OR 200 HRS.
Engine Oil	CHECK	X					
	CHANGE		X				
Air Cleaner	CHECK	X					
	CHANGE			X (1)			
All Nuts & Bolts	Re-tighten If Necessary	X					
Spark Plug	CHECK-CLEAN				X		
	REPLACE						X
Cooling Fins	CHECK				X		
Spark Arrester	CLEAN					X	
Fuel Tank	CLEAN					X	
Fuel Filter	CHECK					X	
Idle Speed	CHECK-ADJUST					X (2)	
Valve Clearance	CHECK-ADJUST						X (2)
Fuel lines	CHECK	Every 2 years (replace if necessary) (2)					

(1) Service more frequently when used in **DUSTY** areas.

(2) These items should be serviced by your service dealer, unless you have the proper tools and are mechanically proficient. Refer to the HONDA Shop Manual for service procedures.

(3) For commercial use, log hours of operation to determine proper maintenance intervals.

**TABLE 5. MACHINE INSPECTION**

Item	Hours of Operation	Remarks
(Starting check)	Every 8 hours (every day)	
Loosened or lost screws	Every 8 hours (every day)	
Damage of any part	Every 8 hours (every day)	
Function of controlling system part	Every 8 hours (every day)	
Vibrator oil check	Every 100 hours	See page 19.
Vibrator oil replacement	Every 200 hours	See page 19.
V-belt (clutch) check	Every 200 hour	See page 19.

## Daily Service

- Check for leakage of fuel or oil.
- Check engine oil.
- Check for loose screws including tightness. See Table 6 below (tightening torque), for retightening.

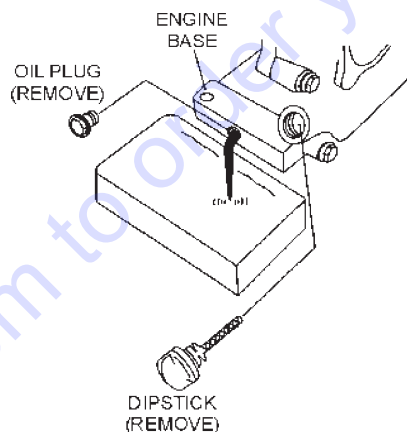
**TABLE 6.**

**TIGHTENING TORQUE (in. kg/cm) Diameter**

Material	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 (6mm) 300 ~ 350 (8mm)		650 ~ 700 (10mm)					
* (In case counter-part is of aluminum)								
(Threads in use with this machine are all right handed)								
Material and quality of material is marked on each bolt, and screw.								

## ENGINE OIL

1. Drain the engine oil when the oil is **warm** as shown in Figure 14.
2. Remove the dipstick and then unscrew the oil plug and allow the oil to drain into a suitable container.
3. Replace engine oil with recommended type oil as listed in Table 3. For engine oil capacity, see Table 2 (engine specifications). **DO NOT** overfill.
4. Install drain bolt with sealing washer and tighten securely.



**Figure 14. Engine Oil (Draining)**

## ENGINE AIR CLEANER

1. Remove the air cleaner cover and foam filter element as shown in Figure 15.
2. Tap the paper filter element (Figure 15) several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm<sup>2</sup>)] through the filter element from the air cleaner case side. **NEVER** brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.
3. Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.

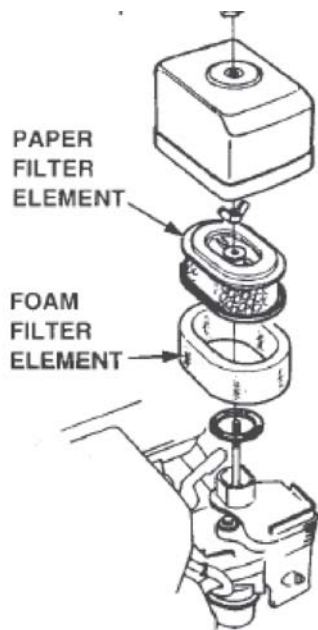


Figure 15. Air Cleaner

## CHANGING VIBRATOR OIL

1. When changing the vibrator oil, remove the drain plug located at the bottom- right of the vibrator (Figure 5), and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot. Remember to use only 10W-30 motor oil when replacing vibrator oil.

### **! CAUTION**

**NEVER** attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 6) gets caught between the V-belt and the clutch. Always use safety gloves.

## Checking and Replacing the V-Belt and Clutch

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

### **! CAUTION**

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

#### ■ Replacing the V-belt

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

#### ■ Reinstalling the V-belt

Engage V-belt to lower vibrator pulley and push the V-belt to left side of upper clutch and, in the same manner as in removal, rotate offset wrench clockwise so that the V-belt goes back on.

#### ■ Checking Clutch

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

## MVC-88VGH/VGHW— PREPARATION FOR LONG -TERM STORAGE

### Plate Compactor Storage

For storage of the plate compactor for over 30 days, the following is required:

- Drain the fuel tank completely or add STA-BIL to the fuel.
- Run the engine until the fuel is completely consumed.
- Completely drain the oil from the engine crankcase and follow procedures described in the **HONDA** engine Owner's Manual for engine storage.
- Completely drain the compactor's hydraulic oil from the vibrating case.
- Clean entire plate compactor, especially the bottom plate removing all dirt and foreign matter.
- Cover plate compactor and engine with plastic covering or equivalent and store in a clean, dry place.

Go to [Discount-Equipment.com](http://Discount-Equipment.com) to order your parts

## MVC-88VGH/VGHW—TROUBLESHOOTING (ENGINE)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the diagnosis based on the **Engine**, and **Compactor** Troubleshooting (Tables 7, and 8) information shown below and on the proceeding pages.

If the problem cannot be remedied, please leave the unit just as it is and consult or company's service department.

**TABLE 7. ENGINE TROUBLESHOOTING**

SYMPTOM	POSSIBLE CAUSE	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.
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, and replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
Difficult to start, "fuel is available, spark is present and compression is low"	Suction/exhaust valve stuck or protruded?	Re-seat 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.	Fuel not available 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 clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

# MVC-88VGH/VGHW—TROUBLESHOOTING (ENGINE COMPACTOR)

**TABLE 7. ENGINE TROUBLESHOOTING (CONTINUED)**

SYMPTOM	POSSIBLE CAUSE	SOLUTION
"Weak in power" compression is proper and does not misfire.	Air cleaner not clean?	Clean or replace air cleaner
	Improper level in carburetor?	Check float adjustment, re-build carburetor.
	Defective Spark plug?	Clean or replace spark plug.
	Defective Spark plug?	
"Weak in power" compression is proper but misfires.	Water in fuel system?	Flush fuel system, and replace with correct type of fuel.
	Dirty spark plug?	Clean or replace spark plug.
	Ignition coil defective?	Replace ignition coil.
Engine overheats.	Spark plug heat value improper?	Replace with correct type of spark plug.
	Correct type of fuel?	Replace with correct type of fuel
	Cooling fins dirty?	Clean cooling fins.
Rotational speed fluctuates.	Governor adjusted correctly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunction.	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.

**TABLE 8. PLATE COMPACTOR TROUBLESHOOTING**

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

# MVC-88VGH/VGHW— EXPLANATION OF CODES IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

## NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

## SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT.....	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN.....		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN....	1	MQ-45T ONLY
3	12348	HOSE .....	A/R	MAKE LOCALLY
4	12349	BEARING .....	1	S/N 2345B AND ABOVE

## NO. Column

**Unique Symbols** — All items with same unique symbol

(@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

## NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

## PART NO. Column

**Numbers Used** — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

## QTY. Column

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

## REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

**“Make/Obtain Locally”** — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

**“Not Sold Separately”** — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.



## MVC-88VGH/VGHW — SUGGESTED SPARE PARTS

MVC-88GH/GW 1 TO 5 UNITS WITH HONDA  
GX160U1QMX2 ENGINE

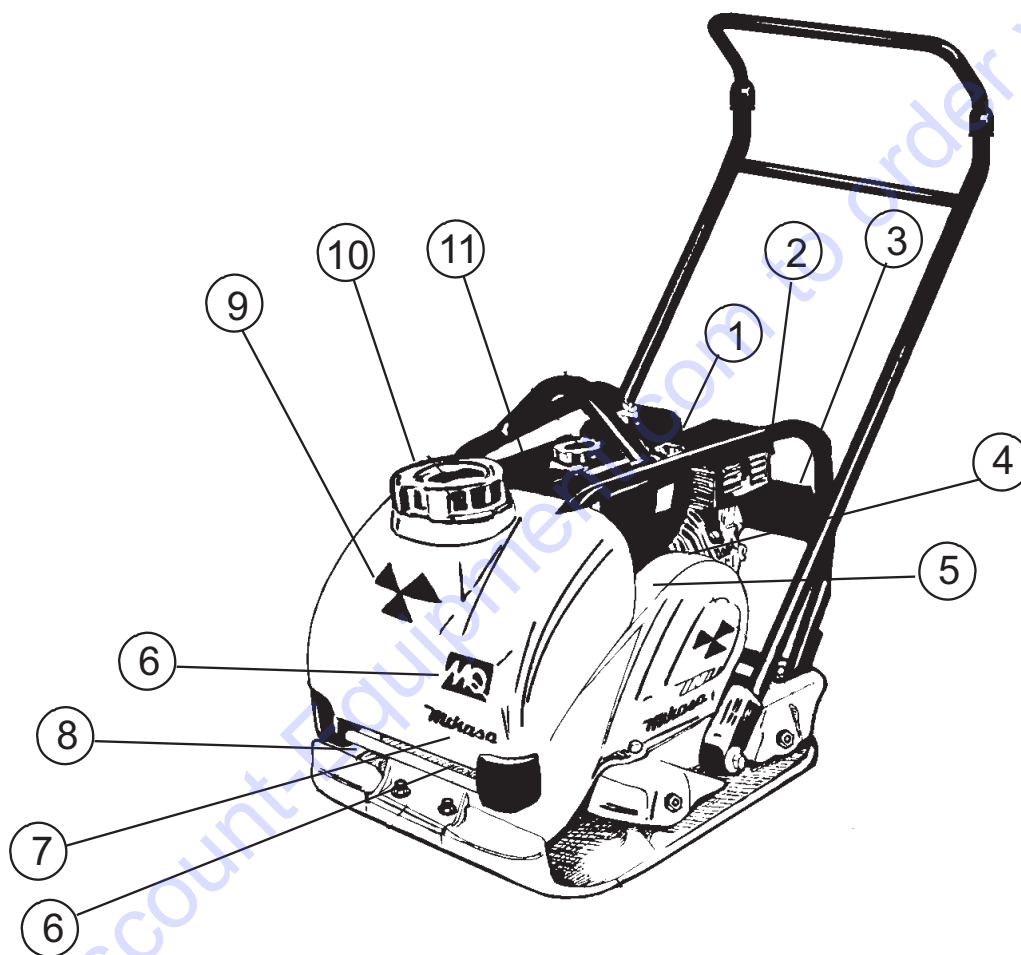
### *1 to 5 Units*

<u>Qty.</u>	<u>P/N</u>	<u>Description</u>
3 .....	070100332 .....	V-BELT
5 .....	0650140480 .....	SPARK PLUG
1 .....	28462ZH8003 .....	ROPE, RECOIL STARTER
5 .....	17210ZE1517 .....	ELEMENT, AIR CLEANER
1 .....	17620Z0T305 .....	CAP, FUEL TANK
1 .....	17672ZE2W01 .....	FUEL FILTER, FUEL TANK
4 .....	939010140 .....	SHOCK ABSORBER

Go to [Discount-Equipment.com](http://Discount-Equipment.com) to order your parts

# MVC-88VGH/VGHW— NAME PLATE AND DECALS

## NAME PLATE AND DECALS



## MVC-88VGH/VGHW— NAME PLATE AND DECALS

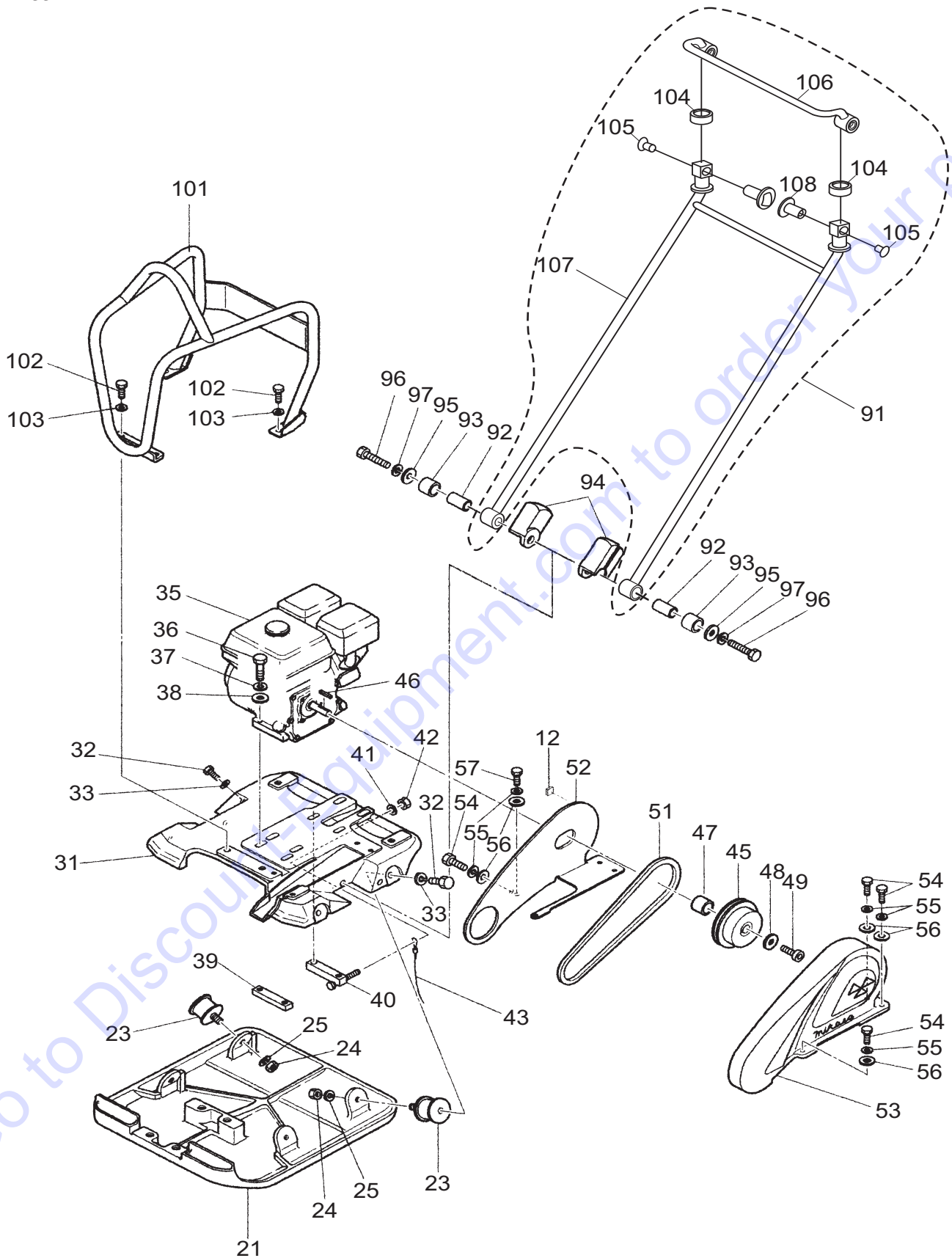
### NAME PLATE AND DECALS

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	920206290	DECAL, READ OWNERS MANUAL .....	1 .....	NPA-629
2	920203290	DECAL, CAUTION .....	1 .....	NPA-329
3	920208450	DECAL, LIFTING .....	1 .....	NPA-845
4	920203060	DECAL, CAUTION (START ENG/VIBR) .	1 .....	NPA-306
5	920208350	DECAL, V- BELT RPF-3330 .....	1 .....	NPA-835
6	920201580	DECAL, MQ LOGO .....	2 .....	NPA-158
7	920105070	DECAL, MIKASA LOGO (NAME) .....	1 .....	NPA-507
8	920201950	DECAL, MOTOR OIL .....	1 .....	NPA-195
9	920101410	DECAL, MIKASA LOGO (TRIANGLE) ...	1 .....	NPA-141
10		NAMEPLATE, SERIAL NO. ....	1 .....	CONTACT MQ PARTS DEPT. W/MODEL & S/N
11	920203330	EAR PROTECTION LABEL .....	1 .....	NPA-333

Go to Discount-Equipment.com to order your parts

# MVC-88VGH/VGHW— BODY ASSY.

BODY ASSY.



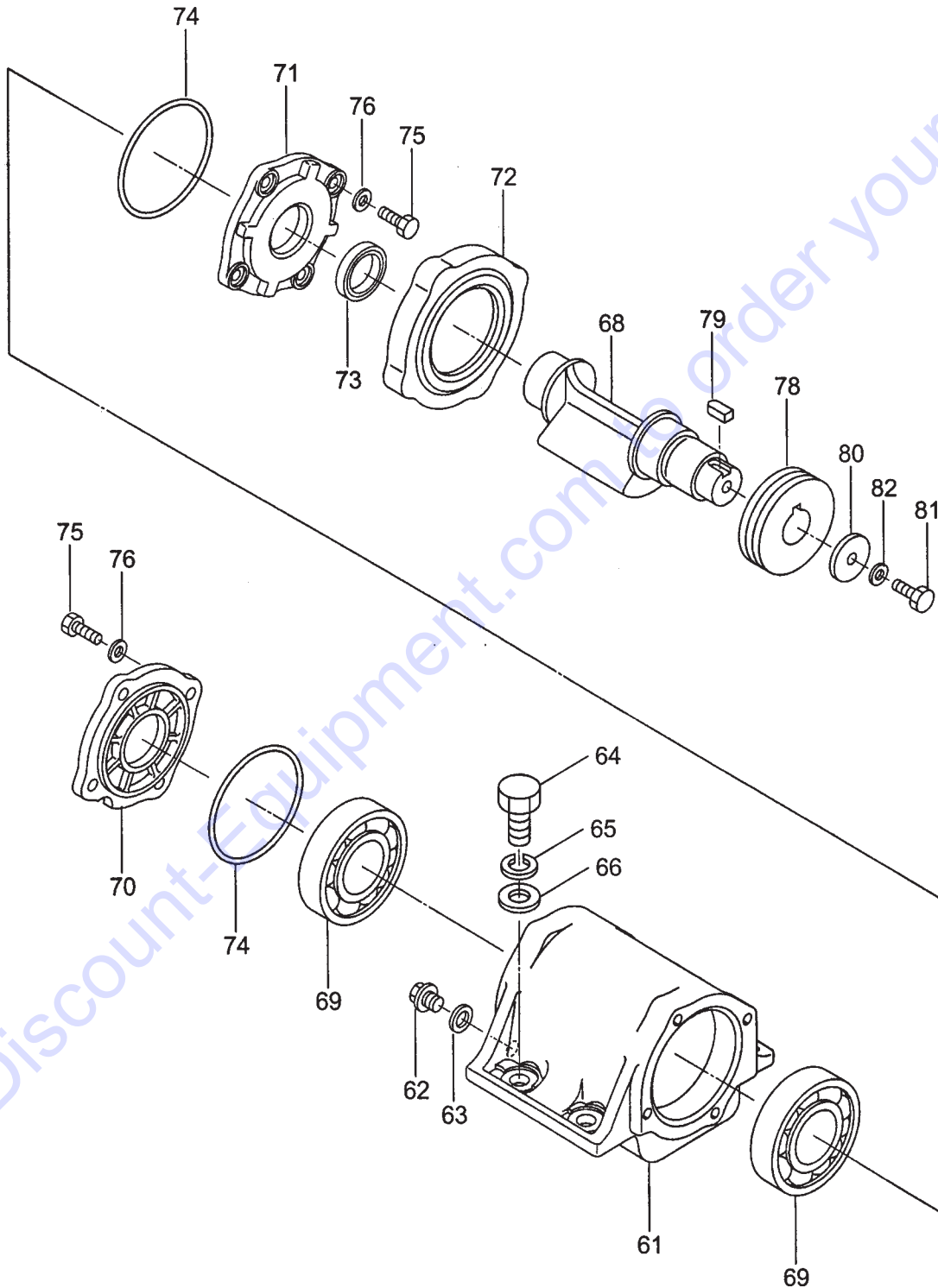
# MVC-88VGH/VGHW— BODY ASSY.

## BODY ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
12	416454360	RUBBER PLATE 25X25X8	1	
21	416115973	VIBRATING PLATE	1	
23	939010140	SHOCK ABSORBER 50D-45H	4	
24	020310080	NUT M10	4	
25	030210250	WASHER SW M10	4	
31	416115980	BASE	1	
32	001221025	BOLT 10X25 T	4	
33	030210250	WASHER, LOCK M10	4	
35	912216011	ENGINE ASSY. GX160U1QMX2	1	
36	001220845	BOLT 8X45 T	4	
37	030208200	WASHER, LOCK M8	4	
38	031108160	WASHER, FLAT M8	4	
39	404412290	ENGINE NUT	1	
40	416452780	ENGINE NUT (W/BOLT)	1	
41	031108160	WASHER, FLAT M8	1	
42	022710809	NYLON NUT M8	1	
43	959404350	EARTH WIRE	1	
45	416338990	CLUTCH ASSY.	1	
46	2062600113	KEY 4.77 X 4.77 X 35	1	
47	416452800	COLLAR 19.05-25-15.6	1	
48	952400130	WASHER	1	
49	009110004	SOCKET HEAD BOLT 5/16X24	1	
51	070100332	V-BELT RPF-3330	1	
52	416115950	BELT COVER (INSIDE)	1	
53	416010020	BELT COVER	1	
54	001220825	BOLT 8X25 T	4	
55	030208200	WASHER, LOCK M8	5	
56	031108160	WASHER, FLAT M8	1	
57	001220820	BOLT 8X20 T	1	
91	416910070	VIB. PROOF HANDLE ASSY .....	1	INCLUDES ITEMS W/ #
92	416452730	COLLAR 13-20-44	2	
93	404433430	RUBBER 20X32X28.5/52H	2	
94	416452360	HANDLE STOPPER	2	
95	952405600	WASHER 12.5 X 35 X 4.5	2	
96	001211253	BOLT 12X65 H	2	
97	030212300	WASHER, LOCK M12	2	
101	416115940	GUARD HOOK	1	
102	001221025	BOLT 10X25 T	4	
103	030210250	WASHER, LOCK M10	4	
104#	416459340	RUBBER	2	
105#	009120407	BOLT, SUNK HEAD 10X20T	2	
106#	416217070	GRIP, HANDLE	1	
107#	416118520	VIB. PROOF HANDLE	1	
108#	416459320	NUT, VIB. PROOF HANDLE	2	

# MVC-88VGH/VGHW—VIBRATOR ASSY.

VIBRATOR ASSY.



# MVC-88VGH/VGHW—VIBRATOR ASSY.

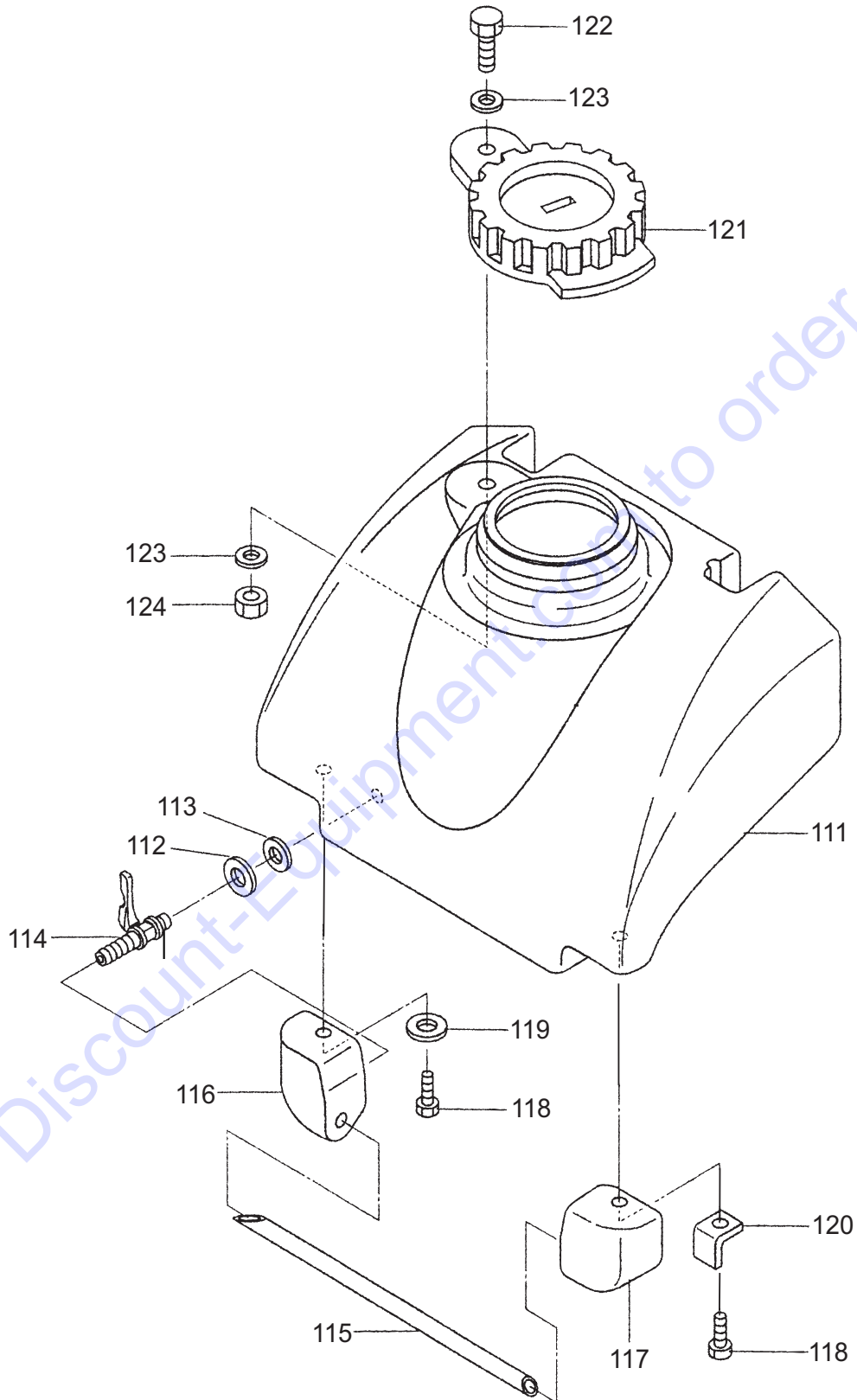
## VIBRATOR ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	416910030	VIBRATOR ASSY .....	1 .....	INCLUDES ITEMS W/ #
61#	416115991	VIBRATING CASE	1	
62#	953400270	PLUG 1/4X14 10L	1	
63#	953405260	PACKING 1/4	1	
64	001221640	BOLT 16X40 T	4	
65	030216400	WASHER, LOCK M16	4	
66	031116260	WASHER, FLAT M16	4	
68#	416215530	ECCENTRIC ROTATOR	1	
69#	040306211	BEARING 6211C3	2	
70#	416338900	CASE COVER (R)	1	
71#	416338910	CASE COVER (L)	1	
72#	416338920	BELT COVER GUARD	1	
73#	060403060	OIL SEAL TC-35488	1	
74#	050101000	O-RING G-100	2	
75#	001220825	BOLT 8X25 T	8	
76#	030208200	WASHER, LOCK M8	8	
78#	416454430	PULLEY A1-28-81-20	1	
79#	951405240	KEY 7X7X19 R	1	
80#	952404250	WASHER 11X40X4	1	
81#	001221025	BOLT 10X25 T	1	
82#	030210250	WASHER, LOCK M10	1	

Go to Discount-Equipment.com to order your parts

# MVC-88VGH/VGHW— SPRINKLER ASSY. (OPTION)

SPRINKLER ASSY. (OPTION)





## MVC-88VGH/VGHW— SPRINKLER ASSY. (OPTION)

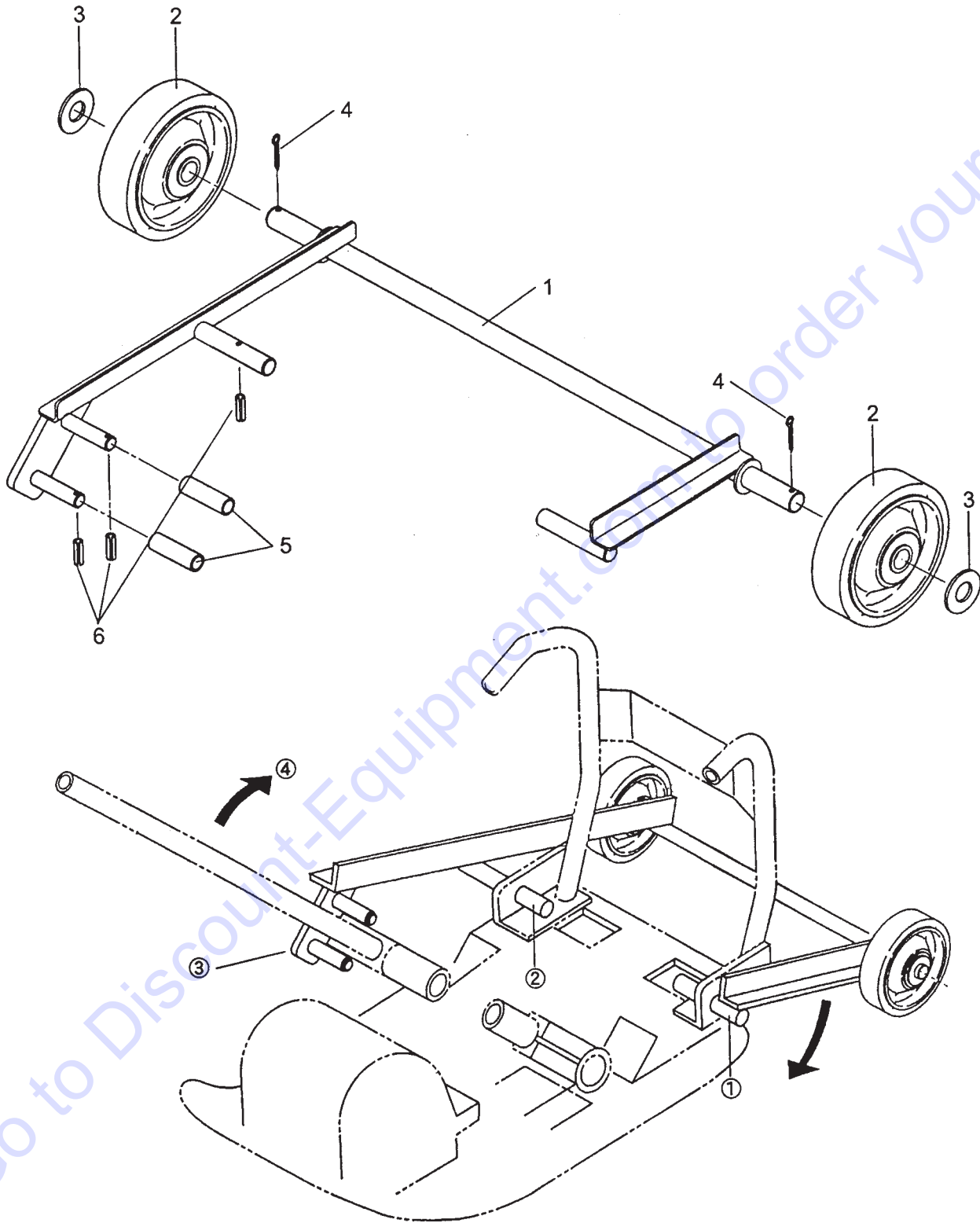
### SPRINKLER ASSY. (OPTION)

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
111	416910010	WATER TANK (W/CAP ONLY) .....	1 .....	REPLACES 416116010 INCLUDES ITEMS W/#
112	033910050	WASHER 14.5X30X1.6	1	
113	953406390	PACKING 13X28X2	1	
114	954403241	COCK PT1/4	1	
115	416338930	SPRINKLING PIPE	1	
116	416338940	PIPE HOLDER (L)	1	
117	416452750	PIPE HOLDER (R)	1	
118	001220825	FLANGE BOLT 8X25	2	
119	416453780	PACKING 8X19X2T	3	
120	416452790	STAY, PIPE HOLDER	1	
121#	954300342	CAP, WATER TANK (NBR)	1	
122#	001241030	BOLT 10X30	1	
123#	033910010	WASHER 10.5X21X2	2	
124#	022910180	NYLON NUT M10	1	

Go to Discount-Equipment.com to order your parts

# MVC-88VGH/VGHW—TRANSPORT WHEEL ASSY. (OPTION)

TRANSPORT WHEEL ASSY. (OPTION )



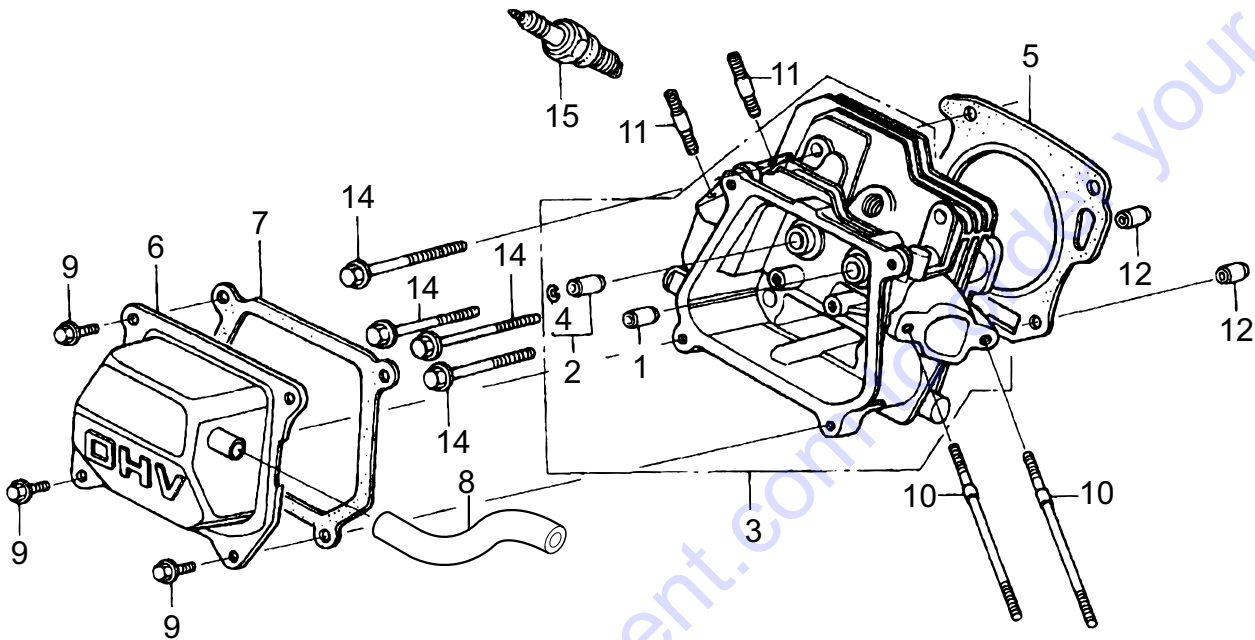
## MVC-88VGH/VGHW—TRANSPORT WHEEL ASSY. (OPTION)

### TRANSPORT WHEEL ASSY. (OPTION )

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	416116160	WHEEL SHAFT	1	
2	959404310	WHEEL 150X42	2	
3	031120320	WASHER, FLAT M20	2	
4	025203030	SPLIT COTTER PIN 3X30	2	
5	416454150	ROLLER	2	
6	025403025	SPRING PIN 3X25	3	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CYLINDER HEAD ASSY.



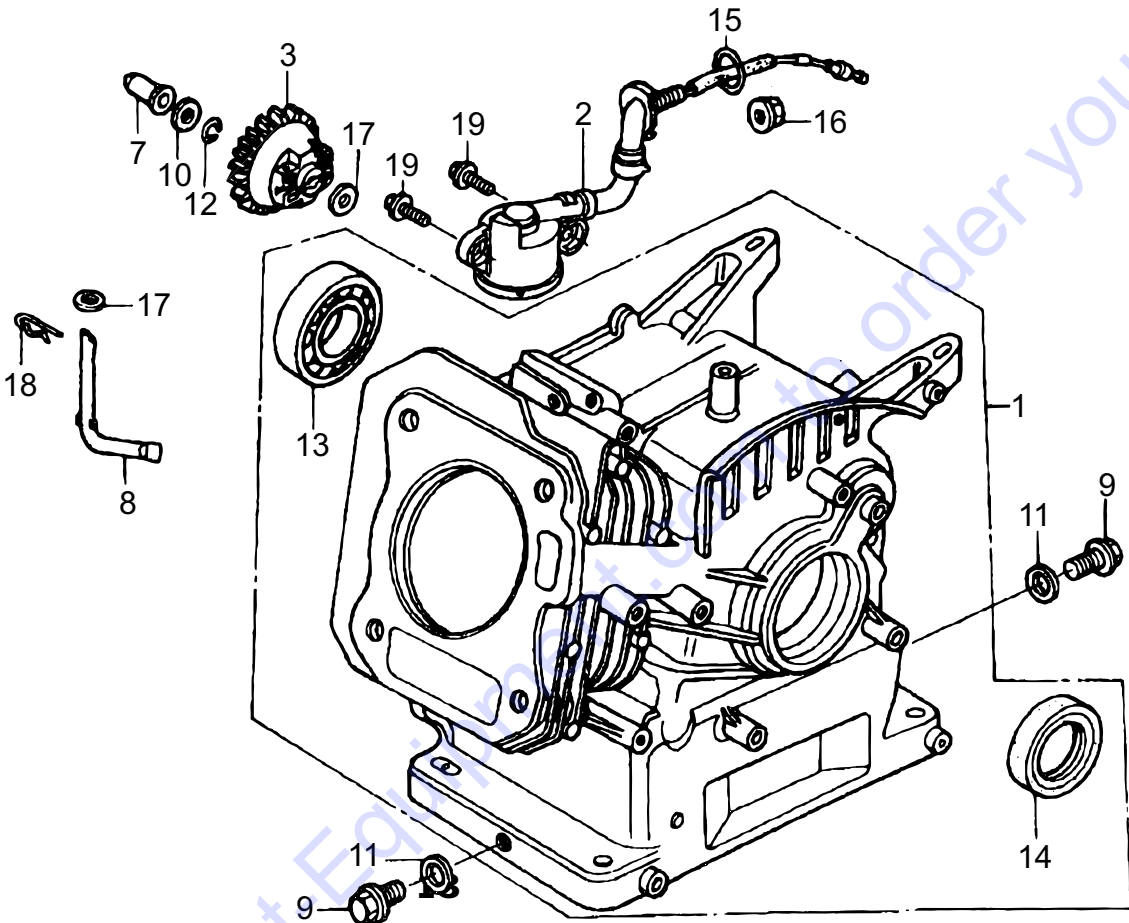
## HONDA GX160U1QMX2 ENGINE — CYLINDER HEAD ASSY.

### CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12204ZE1306	GUIDE, VALVE (OS)	1	
2	12205ZE1315	GUIDE, EX. VALVE (OS) .....	1	INCLUDES ITEMS W/#
3	12210ZH8405	HEAD, CYLINDER	1	
4#	12216ZE5300	CLIP, VALVE GUIDE	1	
5	12251ZF1800	GASKET, CYLINDER HEAD	1	
6	12310ZE1020	COVER, HEAD	1	
7	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
8	15721ZH8000	TUBE, BREATHER	1	
9	90013883000	BOLT, FLANGE (6 X 12)	4	
10	90043ZE1020	BOLT, STUD ( 6 X 112)	2	
11	90047ZE1000	BOLT, STUD (8 X 32)	2	
12	9430110160	PIN A, DOWELL (10 X 16)	2	
14	957230806000	BOLT, FLANGE (8 X 60)	4	
15	0650140480	SPARK PLUG EY45V	1	

Go to Discount-Equipment.com to order your parts

**HONDA GX160U1QMX2 ENGINE — CYLINDER BARREL ASSY.**



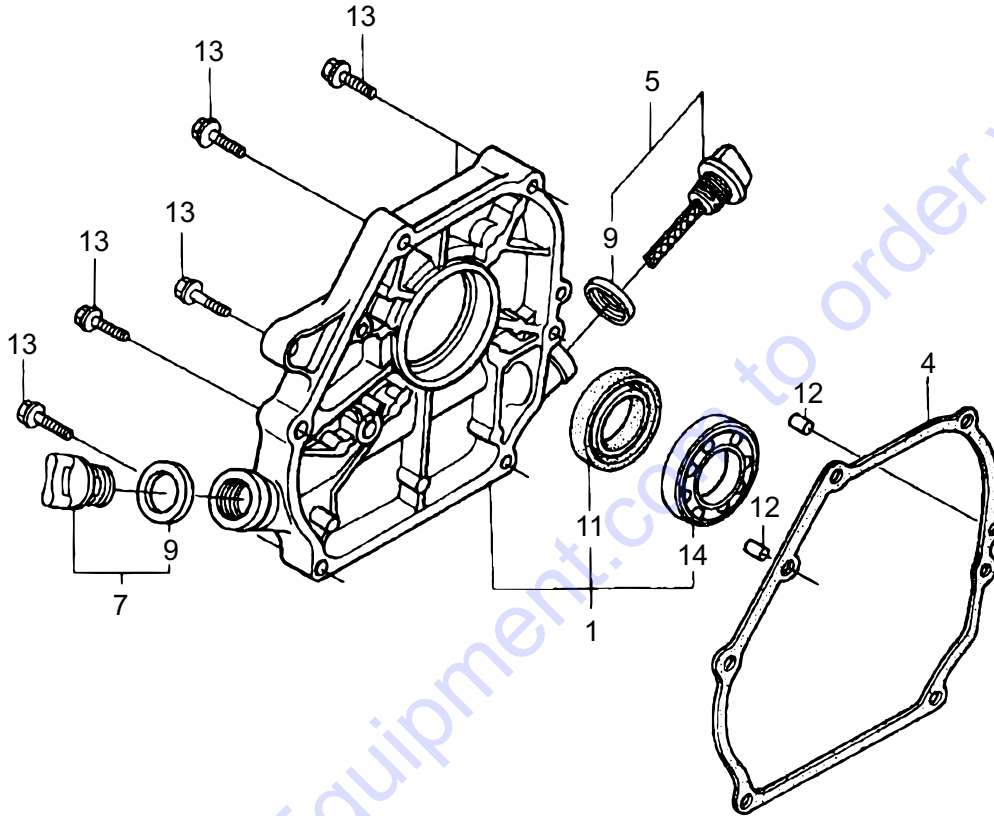
# HONDA GX160U1QMX2 ENGINE — CYLINDER BARREL ASSY.

## CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12000ZH8426	CYLINDER BARREL ASSY. ....	1.....	INCLUDES ITEMS W/ \$
2	15510ZE1033	SWITCH ASSY., OIL LEVEL	1	
3	16510ZE1000	GOVERNOR ASSY.	1	
7	16531ZE1000	SLIDER, GOVERNOR	1	
8	16541ZE1000	SHAFT, GOVERNOR ARM	1	
9	90131ZE1000	BOLT, DRAIN PLUG	2	
10	90451ZE1000	WASHER, THRUST (6MM)	1	
11	90601ZE1000	WASHER, DRAIN PLUG (10.2MM)	2	
12	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
13\$	91001ZF1003	BEARING, RADIAL BALL (6205)	1	
14\$	91201ZOT801	OIL SEAL (25 X 41 X 6)	1	
15	91353671004	O-RING (14 MM)	1	
16	9405010000	NUT, FLANGE (10MM)	1	
17	9410106800	WASHER, PLAIN (6MM)	2	
18	9425108000	PIN, LOCK (8MM)	1	
19	957010601200	BOLT, FLANGE (6 X 12)	2	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CRANKCASE COVER ASSY.





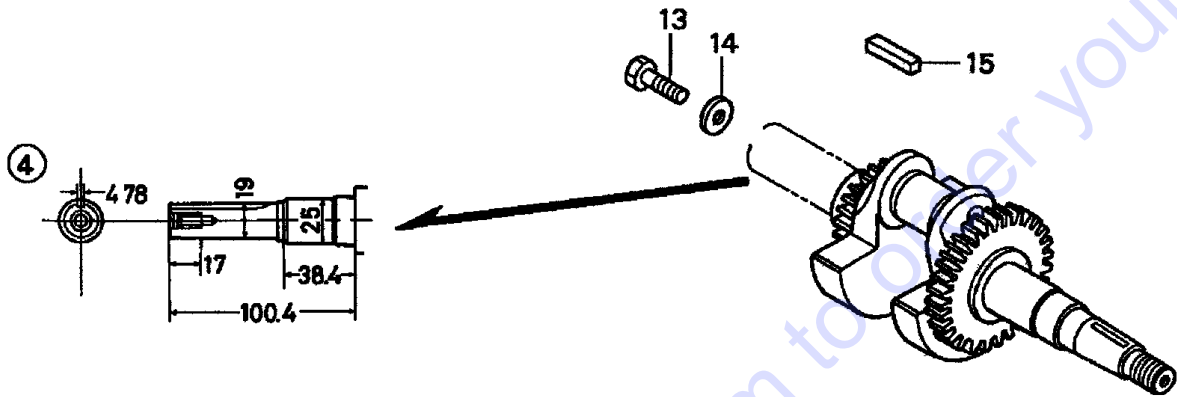
# HONDA GX160U1QMX2 ENGINE — CRANKCASE COVER ASSY.

## CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11300ZE1642	COVER ASSY., CRANKCASE .....	1.....	INCLUDES ITEMS W/ @
4	11381ZH8801	GASKET, CASE COVER	1	
5	15600ZE1003	OIL GAUGE .....	1.....	INCLUDES ITEMS W/ #
7	15600ZG4003	CAP ASSY., OIL FILLER.....	1.....	INCLUDES ITEMS W/ #
9#	15625ZE1003	GASKET, OIL FILLER CAP	2	
11@	91201Z0T801	OIL SEAL (25 X 41 X 6)	1	
12	9430108140	PIN A, DOWEL (8 X 14)	2	
13	957010803200	BOLT, FLANGE (8 X 32)	6	
14@	961006205000	BEARING, RADIAL BALL (6205)	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CRANKSHAFT ASSY.



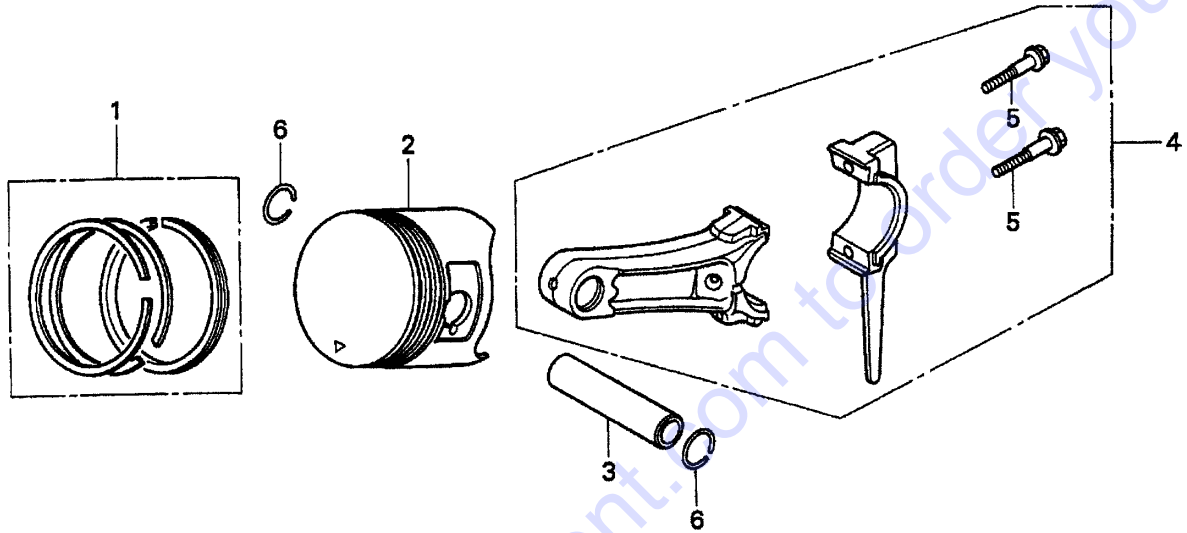
## HONDA GX160U1QMX2 ENGINE — CRANKSHAFT ASSY.

### CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
4	13310ZE1601	CRANKSHAFT	1	
13	90003ZE1000	BOLT, HEX 5/16"	1	
14	90473842000	WASHER, 8 MM	1	
15	90745ZE1600	KEY, 78 X 38 MM	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — PISTON/RINGS ASSY.



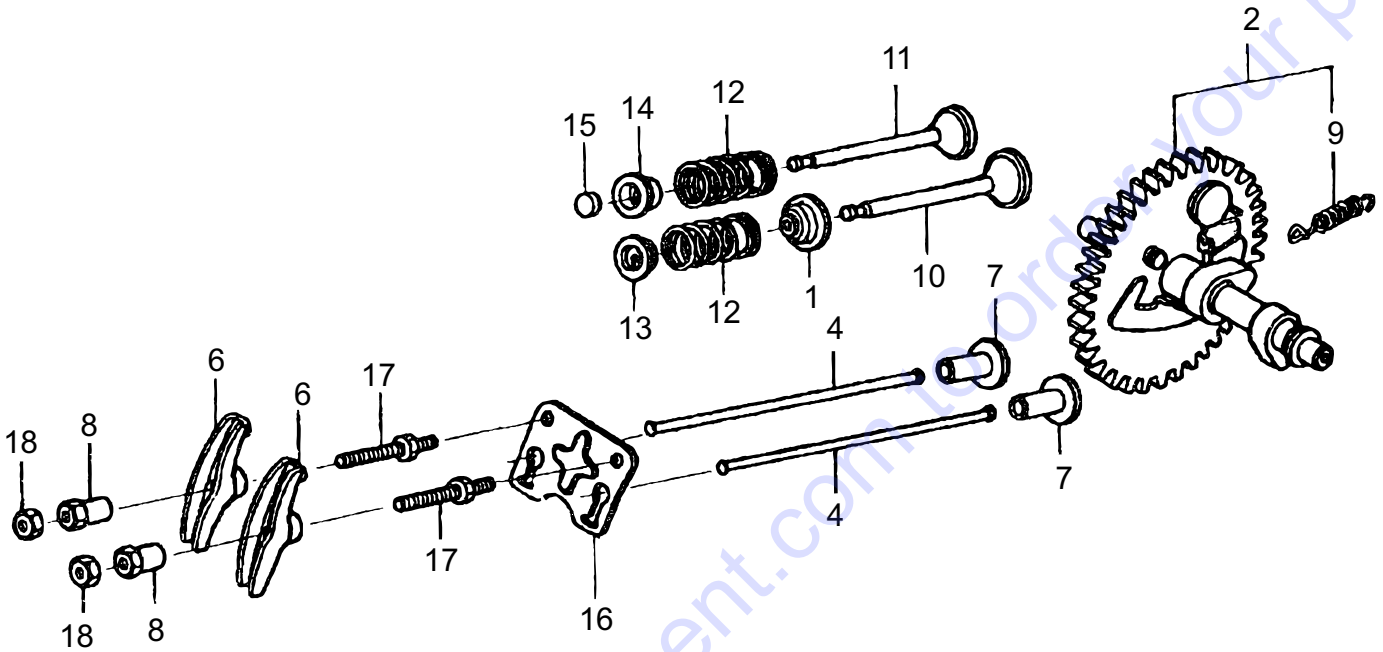
# HONDA GX160U1QMX2 ENGINE — PISTON/RINGS ASSY.

PISTON/RINGS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010ZL0003	RING SET, PISTON (STD)	1	
1	13011ZL0003	RING SET, PISTON (OS 0.25)	1	
1	13012ZL0003	RING SET, PISTON (OS 0.50)	1	
1	13013ZL0003	RING SET, PISTON (0.75)	1	
2	13101ZH8010	PISTON (STD)	1	
2	13102ZH8010	PISTON (OS 0.25)	1	
2	13103ZH8010	PISTON (OS 0.50)	1	
2	13104ZH8010	PISTON (0.75)	1	
3	13111ZE1000	PIN, PISTON	1	
4	13200ZE1010	ROD ASSY., CONNECTING.....	1	INCLUDES ITEMS W/@
5@	90001ZE1000	BOLT, CONNECTING ROD	2	
6	90551ZE1000	CLIP, PISTON PIN (18MM)	2	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CAMSHAFT ASSY.



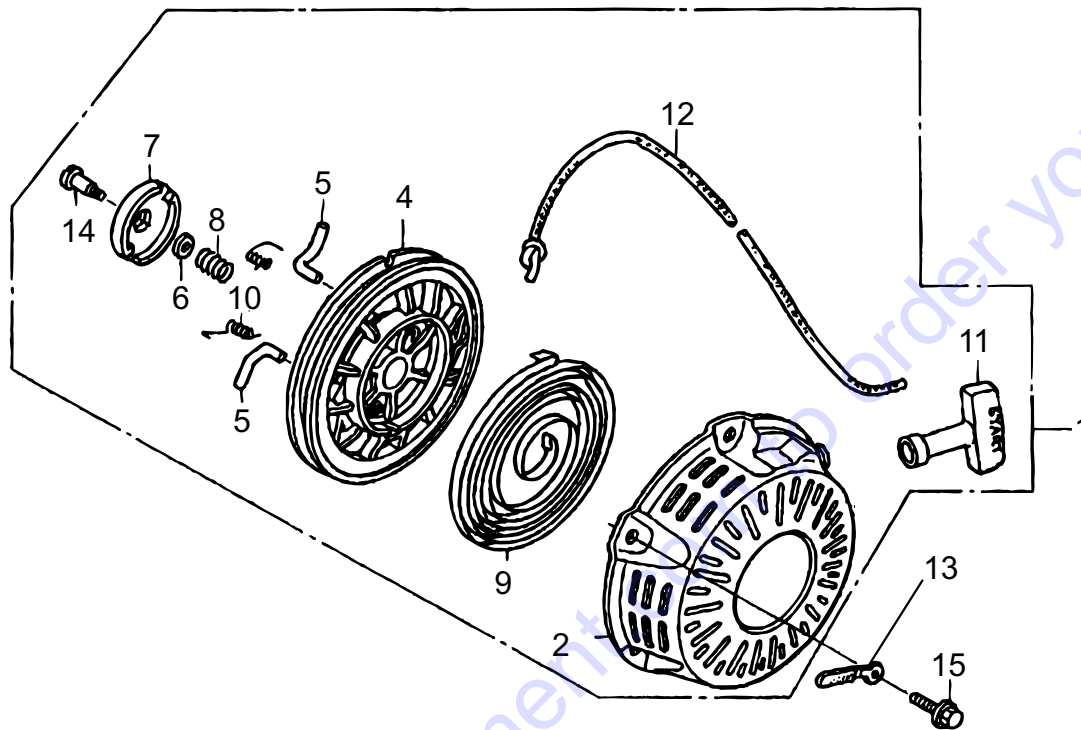
# HONDA GX160U1QMX2 ENGINE — CAMSHAFT ASSY.

## CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12209ZH8003	SEAL, VALVE STEM	1	
2	14100ZE1812	CAMSHAFT ASSY. ....	1	INCLUDES ITEMS W/@
4	14410ZE1010	ROD, PUSH	2	
6	14431ZE1000	ARM, VALVE ROCKER	2	
7	14441ZE1010	LIFTER, VALVE	2	
8	14451ZE1013	PIVOT, ROCKER ARM	2	
9@	14568ZE1000	SPRING, WEIGHT RETURN	1	
10	14711ZF1000	VALVE, INLET	1	
11	14721ZF1000	VALVE, EXHAUST	1	
12	14751ZF1000	SPRING VALVE	2	
13	14771ZE1000	RETAINER, IN. VALVE SPRING	1	
14	14773ZE1000	RETAINER, EX. VALVE SPRING	1	
15	14781ZE1000	ROTATOR, VALVE	1	
16	14791ZE1010	PLATE, PUSH ROD GUIDE	1	
17	90012ZE0010	BOLT, PIVOT (8MM)	2	
18	90206ZE1000	NUT, PIVOT ADJ.	2	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — RECOIL STARTER ASSY.





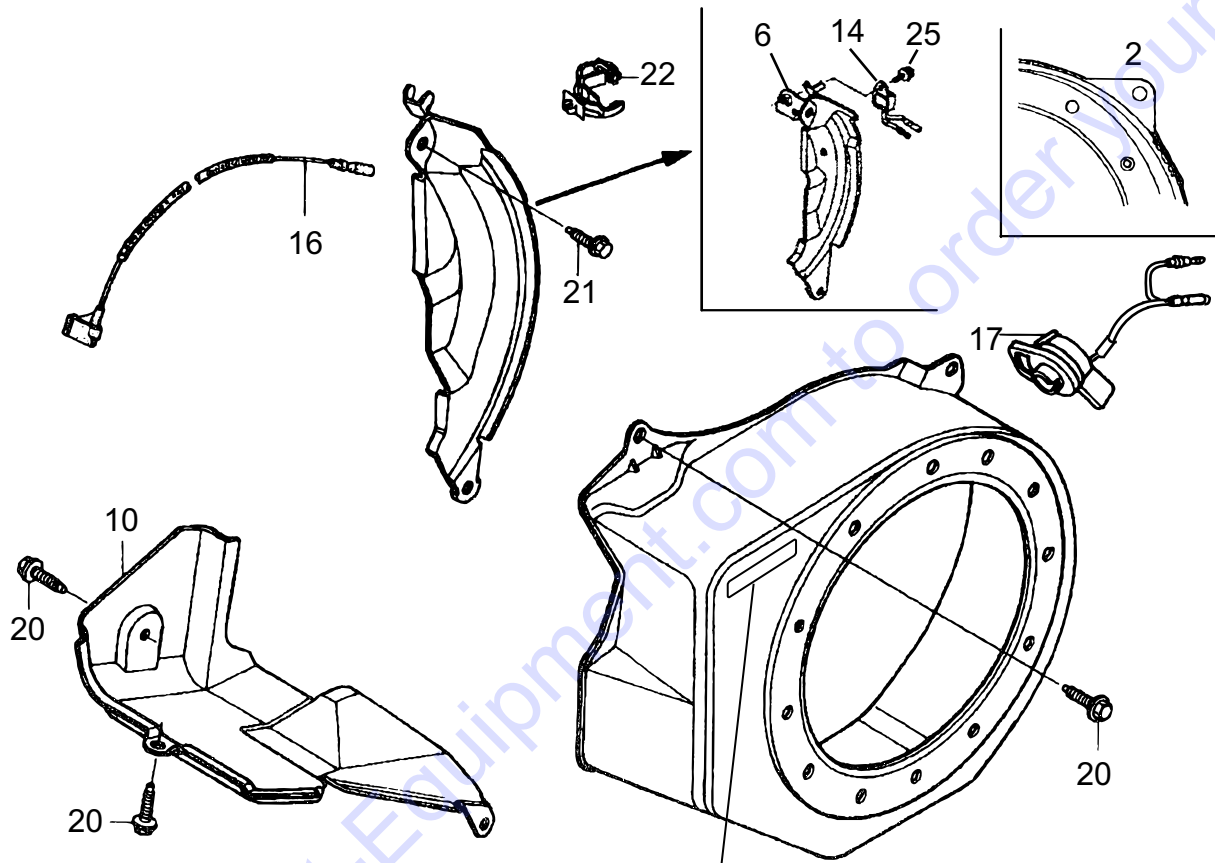
# HONDA GX160U1QMX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400ZH8023ZB	STARTER ASSY., RECOIL .....	1.....	INCLUDES ITEMS W/@
2@	28410ZH8003ZB	CASE, RECOIL STARTER	1	
4@	28421ZH8801	REEL, RECOIL STARTER	1	
5@	28422ZH8801	RATCHET, STARTER	2	
6@	28431ZH8801	PLATE, FRICTION	1	
7@	28431ZH8801	GUIDE, RATCHET	1	
8@	28441ZH8801	SPRING, FRICTION	1	
9@	28442ZH8003	SPRING, RECOIL STARTER	1	
10@	28443ZH8001	SPRING, RETURN	2	
11@	28461ZH8003	KNOB, RECOIL STARTER	1	
12@	28462ZH8003	ROPE, RECOIL STARTER	1	
13	32901MA1000	CLIP, CORD	1	
14@	90003ZH8001	SCREW, SETTING	1	
15	90008ZE2003	BOLT, FLANGE (6 X 10)	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — FAN COVER ASSY.



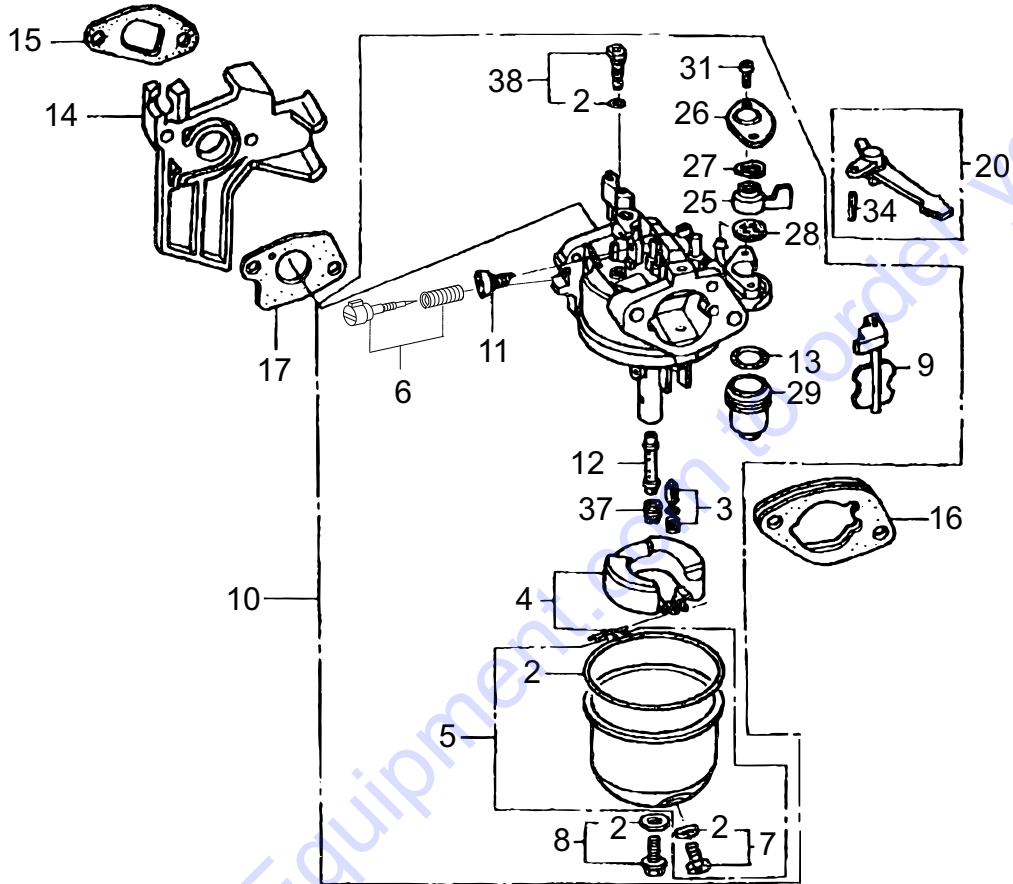
## HONDA GX160U1QMX2 ENGINE — FAN COVER ASSY.

### FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	19610ZE1000ZC	COVER, FAN *NH1* (BLACK)	1	
6	19611ZH8810	PLATE, SIDE (OIL ALERT)	1	
10	19630ZH8000	SHROUD	1	
14	34150ZH7003	ALERT UNIT, OIL	1	
16	3610ZE1010	CORD, STOP SWITCH (370MM)	1	
17	36100ZF6P81	SWITCH ASSY., ENGINE STOP	1	
20	90013883000	BOLT, FLANGE (6 X 12) (CT200)	6	
21	90022888010	BOLT, FLANGE (6 X 20) (CT200)	1	
22	90601ZH7013	CLIP, HARNESS	1	
25	957010600800	BOLT, FLANGE (6 X 8)	1	
26	87532ZH7000	MARK, THROTTLE INDICATION	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CARBURETOR ASSY.

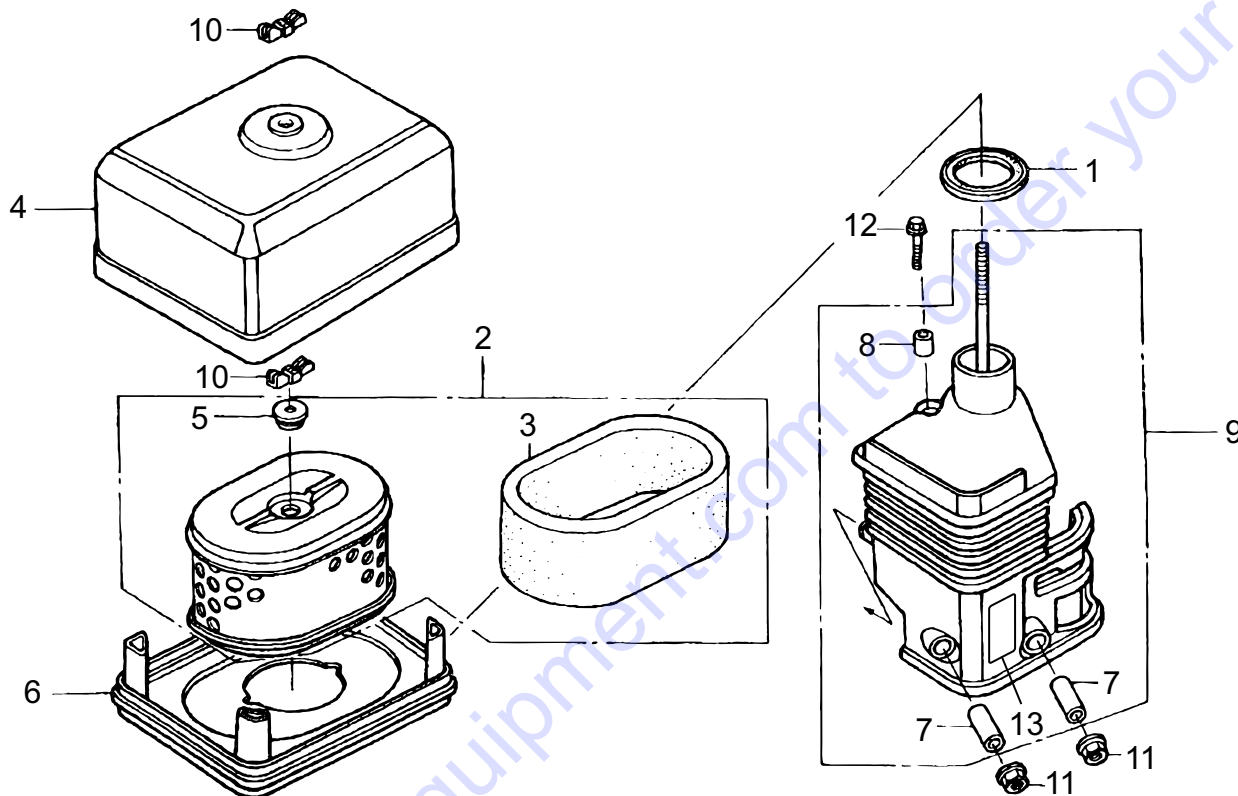


# HONDA GX160U1QMX2 ENGINE — CARBURETOR ASSY.

## CARBURETOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2@	16010ZE1812	GASKET SET	1	
3@	16011ZE0005	VALVE SET, FLOAT	1	
4@	16013ZE0005	FLOAT SET	1	
5@	16015ZE0831	CHAMBER SET, FLOAT .....	1	INCLUDES O-RING
6@	16016ZH7W01	SCREW SET	1	
7@	16024ZE1811	SCREW SET, DRAIN.....	1	INCLUDES GASKET
8@	16028ZE0005	SCREW SET B .....	1	INCLUDES GASKET
9@	16044ZE0005	CHOKE SET	1	
10	16100ZH8W51	CARBURETOR ASSY. (BE65B B) .....	1	INCLUDES ITEMS W/ @
11@	16124ZE0005	SCREW, THROTTLE STOP	1	
12@	16166ZH8W50	NOZZLE, MAIN	1	
13@	16173001004	O-RING	1	
14	16211ZE1000	INSULATOR, CARBURETOR	1	
15	16212ZH8800	GASKET, INSULATOR	1	
16	16220ZE1020	SPACER, CARBURETOR	1	
17	16221ZH8801	GASKET, CARBURETOR	1	
20	16610ZE1000	LEVER, CHOKE (STD).....	1	INCLUDES ITEMS W/ #
25@	16953ZE1812	LEVER, VALVE	1	
26@	16954ZE1812	PLATE, LEVER SETTING	1	
27@	16956ZE1811	SPRING, VALVE LEVER	1	
28@	16957ZE1812	GASKET, VALVE	1	
29@	16967ZE0811	CUP, FUEL STRAINER	1	
31@	93500030060H	SCREW, PAN (3 X 6)	2	
34#	9430520122	PIN, SPRING (2 X 12)	1	
37@	99101ZH80700	JET, MAIN (#70)	1	
38@	99204ZE00350	JET, SET, PILOT (#35).....	1	INCLUDES GASKET

# HONDA GX160U1QMX2 ENGINE — AIR CLEANER ASSY.



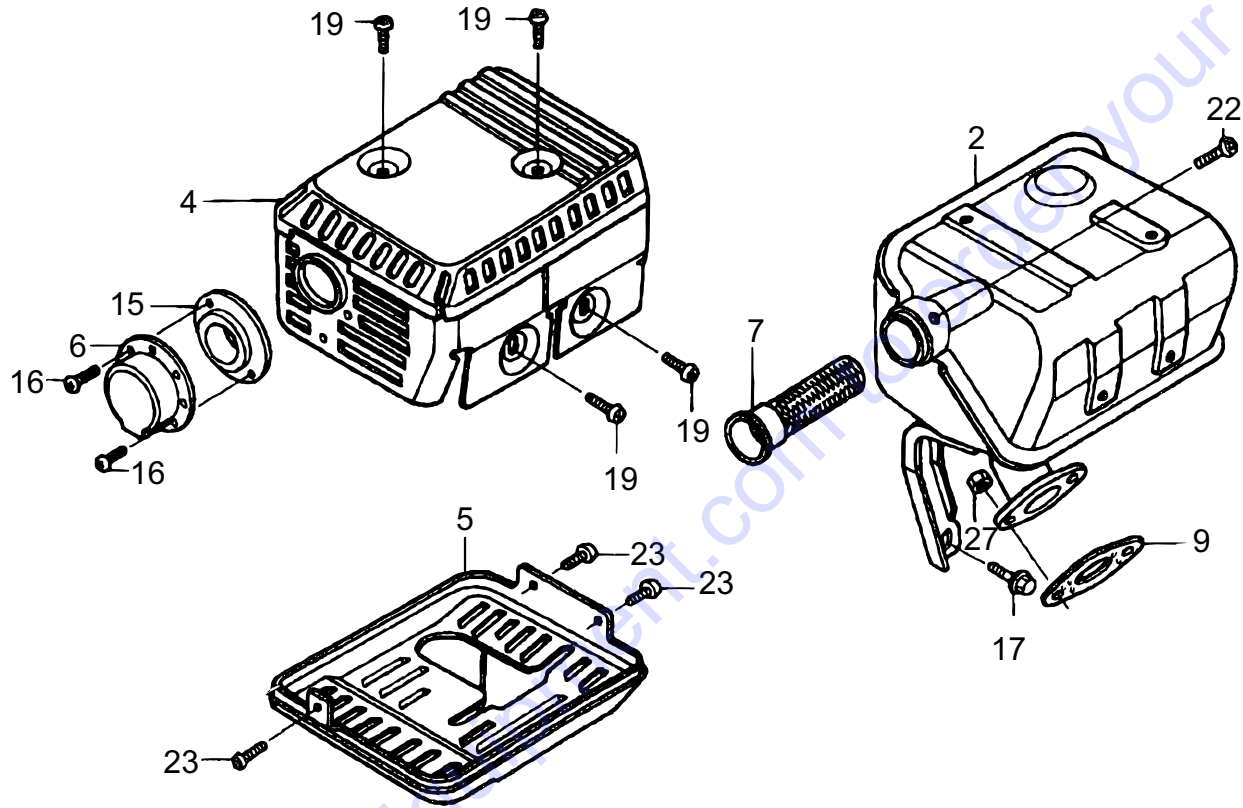
# HONDA GX160U1QMX2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16271ZE1000	GASKET, ELBOW	1	
2	17210ZE1517	ELEMENT, AIR CLEANER .....	1	INCLUDES ITEMS W/@
3@	17218ZE1507	FILTER (OUTER)	1	
4	17230ZE1820	COVER, AIR CLEANER	1	
5@	17232891000	GROMMET, AIR CLEANER	1	
6	17235ZE1831	NOISE, MUFFLER	1	
7#	17238ZE7010	COLLAR, AIR CLEANER	2	
8#	17239ZE1000	COLLAR B, AIR CLEANER	1	
9	17410ZE1020	ELBOW, AIR CLEANER .....	1	INCLUDES ITEMS W/ #
10	90325044000	WINGNUT, TOOL BOX SETTING	1	
11	9405006000	NUT, CAP (6 MM)	2	
12	957010602000	BOLT, FLANGE (6 X 20)	1	
13#	57528ZH7000	MARK, CHOKE	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — MUFFLER ASSY.





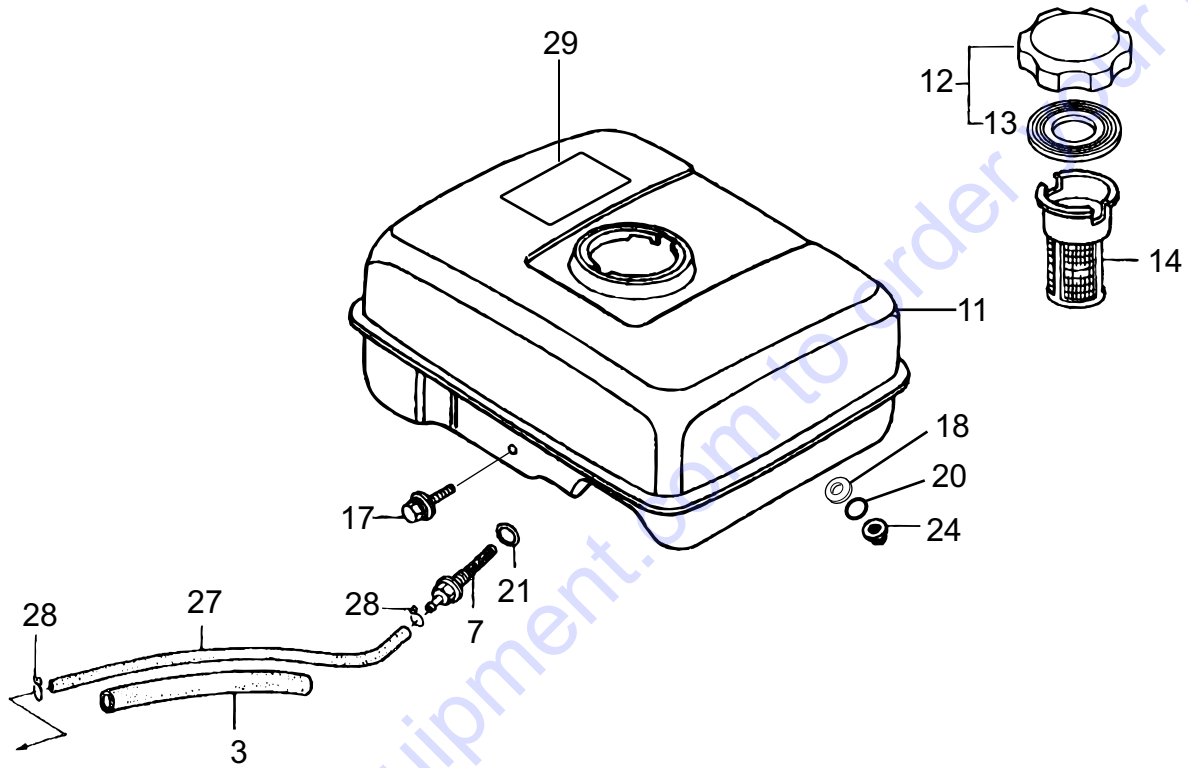
## HONDA GX160U1QMX2 ENGINE — MUFFLER ASSY.

### MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	18310ZK8V50	MUFFLER	1	
4	18320ZF1H01	PROTECTOR, MUFFLER	1	
5	18325ZE1010	PROTECTOR, LOWER	1	
6	18340ZE1010	DEFLECTOR CP	1	
7	18355ZE1000	ARRESTER, SPARK	1	
9	18381ZH8800	GASKET, MUFFLER	1	
15	18522ZE1000	GUIDE, MUFFLER	1	
16	90002ZG0003	SCREW, TAPPING (4 X 8)	2	
17	90016ZE1000	FLANGE BOLT 6 X13	1	
19	90050ZE1000	SCREW, TAPPING (5 X 8)	4	
22	90055ZE1000	SCREW, TAPPING (4 X 6)	1	
23	90055ZE1000	SCREW, TAPPING (4 X 6)	4	
27	94001080000S	NUT, HEX (8MM)	2	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — FUEL TANK ASSY.



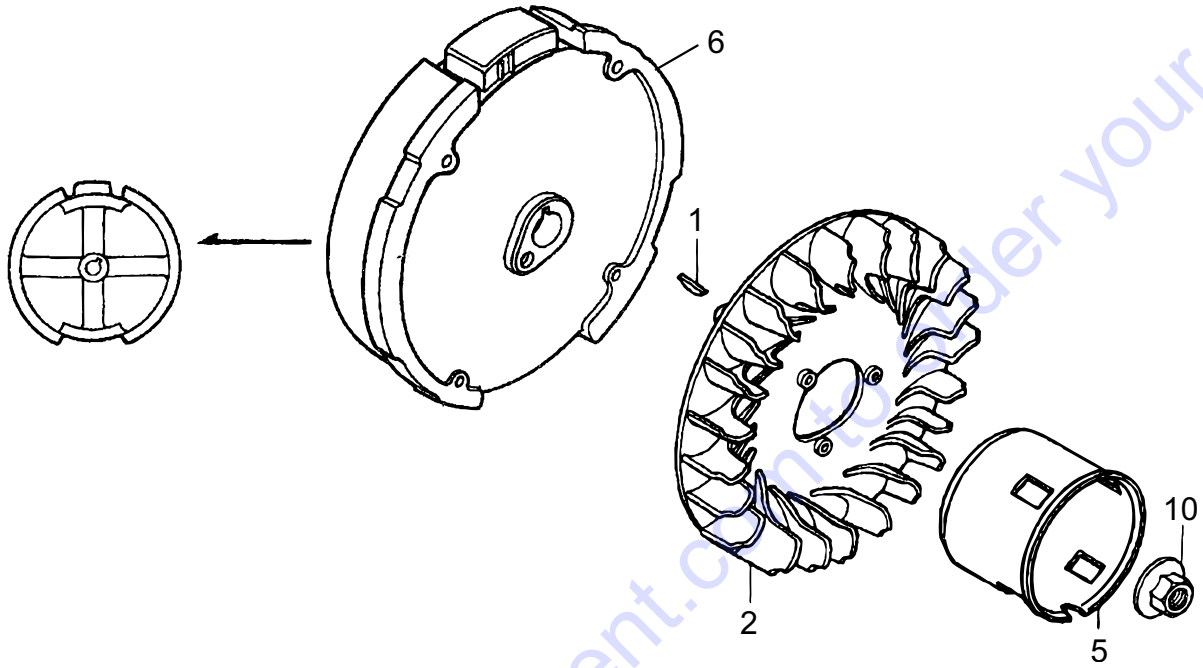
# HONDA GX160U1QMX2 ENGINE — FUEL TANK ASSY.

## FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3	16854ZH8000	RUBBER, SUPPORTER (107MM)	1	
7	16955ZE1000	JOINT, FUEL TANK	1	
11	17510ZE1020ZF	TANK, FUEL *NH1* (BLACK)	1	
12	17620Z0T305	CAP, FUEL FILLER.....	1	INCLUDES ITEMS W/@
13@	17631Z0T812	GASKET, FUEL FILLER CAP	1	
14	17672ZE2W01	FILTER, FUEL	1	
17	90004ZH7003	BOLT, FLANGE (6 X 29)	1	
18	90404680000	WASHER, 6.5 X 25 X 1.5	2	
20	91319ME5003	O-RING (5.5 X 1.4)	2	
21	91353671004	O-RING (13 MM)	1	
24	9405006000	NUT, FLANGE (6MM)	2	
27	950014514040	FUEL TUBE (4.5 X 140)	1	
27	950014500160M	BULK HOSE, FUEL (4.5 X 1M)	1	
28	9500202080	CLIP, TUBE	2	
29	87516ZH7000	MARK, OPERATION CAUTION	1	

Go to Discount-Equipment.com to order your parts

HONDA GX160U1QMX2 ENGINE — COOLING FAN & FLYWHEEL ASSY.



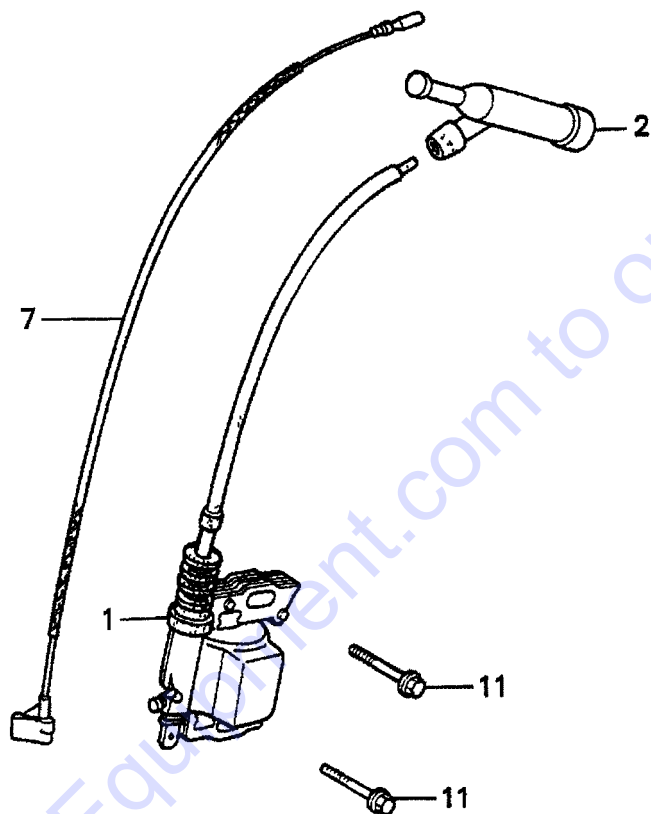
# HONDA GX160U1QMX2 ENGINE — COOLING FAN & FLYWHEEL ASSY.

COOLING FAN AND FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13331357000	KEY, SPECIAL WOODRUFF (25 X 18)	1	
2	19511ZE1000	FAN, COOLING	1	
5	28451ZH8001	PULLEY, STARTER	1	
6	31100ZE1010	FLYWHEEL	1	
10	90201878003	NUT, SPECIAL (14MM)	1	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — IGNITION COIL ASSY.



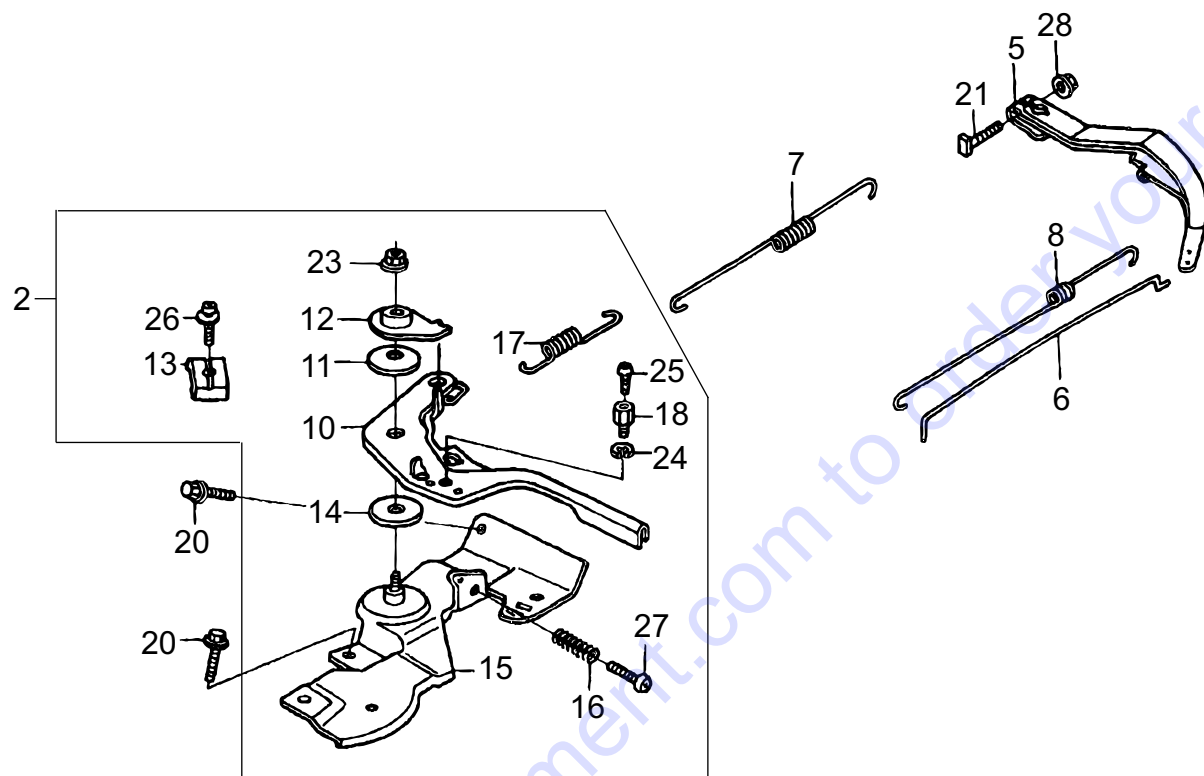
## HONDA GX160U1QMX2 ENGINE — IGNITION COIL ASSY.

### IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30500ZE1063	COIL ASSY., IGNITION	1	
2	30700ZE1013	CAP ASSY.	1	
7	36101ZE1010	WIRE, STOP SWITCH (370MM)	1	
11	90121952000	BOLT, FLANGE (6 X 25)	2	

Go to Discount-Equipment.com to order your parts

# HONDA GX160U1QMX2 ENGINE — CONTROL ASSY.





# HONDA GX160U1QMX2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	16500ZH8813	CONTROL ASSY.....	1.....	INCLUDES ITEMS W/@
5	16551ZE0010	ARM, GOVERNOR	1	
6	16555ZE1000	ROD, GOVERNOR	1	
7	16561ZE1020	SPRING, GOVERNOR	1	
8	16562ZE1020	SPRING, THROTTLE RETURN	1	
10@	16571ZH8020	LEVER CONTROL	1	
11@	16574ZE1000	SPRING LEVER	1	
12@	16575ZH8000	WASHER, CONTROL LEVER	1	
13@	16576891000	HOLDER, CABLE	1	
14@	16578ZE1000	SPACER, CONTROL LEVER	1	
15@	16580ZH8813	BASE CONTROL	1	
16@	16584883300	SPRING, CONTROL ADJUSTING	1	
17@	16592ZE1810	SPRING, CABLE RETURN	1	
18@	16594883010	HOLDER, WIRE	1	
20	90013883000	BOLT, FLANGE (6 X 12) (CT200)	2	
21	90015ZE5010	BOLT, GOVERNOR ARM	1	
23@	90114SA0000	NUT, SELF-LOCK (6MM)	1	
24@	90605230000	CIRCLIP	1	
25@	93500040060H	SCREW, PAN (4 X 6))	1	
26@	93500050160A	SCREW, PAN (5 X 16)	1	
27@	93500050250H	SCREW, PAN (5 X 25)	1	
28	9405006000	NUT, FLANGE (6MM)	1	

Go to Discount-Equipment.com to order your parts

# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
Numbers – Purchase  
or Request Quote**

**Search Manuals**

Enter your information to help us find the right parts manual for your machine.

\* Brand:

\* Model:

\* Serial:

\* Part Number:

SEARCH

**Can't Find Part or  
Manual? Request Help  
by Manufacturer,  
Model & Description**

**Parts Order Form**

Please fill in the following information to help us find the right part for your machine.

Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Description:	<input type="text"/>
Part Number:	<input type="text"/>
Quantity:	<input type="text"/>
Notes:	<input type="text"/>

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

**Need parts?**

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar