OPERATION AND PARTS MANUAL



MODEL MVC-88GH/GHW ONE-WAY PLATE COMPACTOR (HONDA GX160K1QMX2 GASOLINE ENGINE)

Revision #5 (01/11/11)

To find the latest revision of this publication, visit our website at: www.multiquip.com



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.



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.

NOTES

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NOTICE

Specification and part number are subject to change without notice.

PARTS ORDERING PROCEDURES

Ordering parts has never been easier! **Choose from three easy options:**

Effective: January 1st, 2006



lest Deall S Order via Internet (Dealers Only):

Order parts on-line using Multiquip's SmartEquip website!

- View Parts Diagrams
- Order Parts
- Print Specification Information



If you have an MQ Account, to obtain a Username and Password, E-mail us at: parts@multiquip.

To obtain an MQ Account, contact your District Sales Manager for more information.

Goto www.multiquip.com and click on Order Parts to log in and save!

Use the internet and qualify for a 5% Discount on Standard orders for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Fax (Dealers Only):

All customers are welcome to order parts via Fax. Domestic (US) Customers dial:

1-800-6-PARTS-7 (800-672-7877)

Fax your order in and qualify for a 2% Discount on Standard orders for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Phone:

Domestic (US) Dealers Call:

1-800-427-1244

Non-Dealer Customers:

Contact your local Multiquip Dealer for parts or call 800-427-1244 for help in locating a dealer near you.



International Customers should contact their local Multiquip Representatives for Parts Ordering information.

When ordering parts, please supply:

- **Dealer Account Number**
- **Dealer Name and Address**
- Shipping Address (if different than billing address)
- **Return Fax Number**
- **Applicable Model Number**
- Quantity, Part Number and Description of Each Part
- **Specify Preferred Method of Shipment:**
 - ✓ UPS/Fed Ex
- ✓ DHL ✓ Truck
- Priority One Ground
- **Next Day**
- Second/Third Day

NOTICE

All orders are treated as Standard Orders and will ship the same day if received prior to 3PM PST.





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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			
attaMilli dilka.	Burn hazards			
	Respiratory hazards			
OFF	Accidental starting hazards			
	Eye and hearing hazards			
→ K	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.

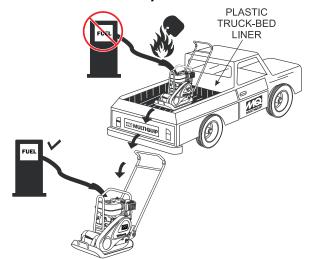


■ **NEVER** tip the engine to extreme angles during lifting as it may cause oil to gravitate into the cylinder head, making the engine start difficult.

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.

TABLE 1. Specifications (Compactor)					
Models	MVC-88GH/MVC-88GHW				
Centrifugal Force	3,450 lbs. (1,564.9 kg)				
Number of Vibrations	5,800 vibrations/min				
Traveling Speed	72 ft./min (22 meters/min)				
Plate Size (LxW)	19.7 x 20.7 in. .500 x .525 mm				
Operating Weight (GW) Operating Weight (GHW)	183 lbs. (83.0 kg.) 212 lbs. (96.2 kg.)				
Fuel Tank Capacity	3.8 qt. (3.6 liters)				
Water Tank Capacity GHW Model Only	13.7 qt. (13.0 liters)				
Max. Area Of Compaction	7092 sq. ft./hr.				

Table 2	(Engine)		
	Model	HONDA GX160K1QMX2	
	Туре	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)	
Engino	Max Output	5.0 H.P./3600 R.P.M.	
Engine	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	
Dimension (L x W x H)		12.0 x 14.4 x 13.2 in. (304 x 362 x 335 mm	
Dry Net Weight		33.1 lbs (15 Kg.)	

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GENERAL INFORMATION

Definition of Plate Compactor

The Mikasa MVC-88GH/GHW 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/GHWproduce 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 forward and reverse travel speed of the compactor is approximately 23 meters/minute (75 ft./minute).

Engine

The Mikasa MVC-88GH/GHW Plate Compactor is equipped with an Honda 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-88GH/GHW Plate Compactor identify and understand the function of the controls and components as indicated in Figure 1.

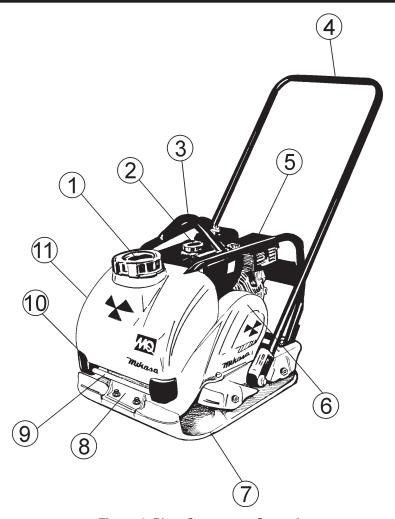


Figure 1. Plate Compactor Controls

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

- Water Tank Cap Remove this cap to add water to the water tank.
- 2. **Fuel Tank Cap** Remove this cap to add fuel.
- 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 manuever the compactor.
- Gasoline Engine This plate compactor uses a HONDA GX160K1QMX2 engine. Refer to the HONDA owners manual for engine information and related topics.

- 6. Belt Cover Remove this cover to gain acess to the V-belts. NEVER run the compactor without the V-belt cover. If the V-belt cover is not installed, the possibility exist that your hand may get caught between the V-belt and clutch, thus 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 Holds 13.7 quarts of water, removable no tools required.

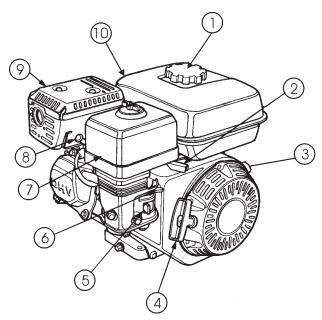


Figure 2. Engine Controls & Components

INITIAL SERVICING

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.

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

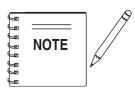
WARNING



Add fuel to the tank only when the engine is stopped and has cooled 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.

- 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.

- Fuel Valve Lever OPEN to let fuel flow, CLOSE to stop the flow of fuel.
- Choke Lever Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
- 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



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.

- 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.

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CAUTION



NEVER operate the unit in a confined area or enclosed area structure that does not provide ample *free flow of air*.

A C

CAUTION



ALWAYS wear approved eye and hearing protection before operating the unit.

Before Starting

- Read safety instructions at the beginning of manual.
- 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.

Engine Oil Check

- 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.

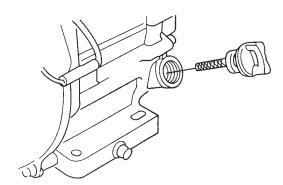


Figure 3. Engine Oil Dipstick (Removal)

- 3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
- 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)

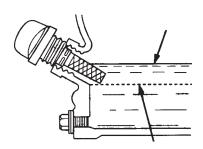


Figure 4. Engine Oil Dipstick (Oil Level)

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				

♠ DANGER



EXPLOSIVE FUEL!

Motor fuels are highly flammable and can be dangerous if mishandled. **DO NOT** smoke while refueling. **DO NOT** attempt to refuel if the engine is *hot* or *running*.

Fuel Check

- 1. Remove the gasoline cap located on top of fuel tank.
- Visually inspect to see if the fuel level is low. If fuel is low, replenish with unleaded fuel.
- 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 of your hand (Figure 5) gets caught between the V-belt and the clutch. Always use safety gloves.

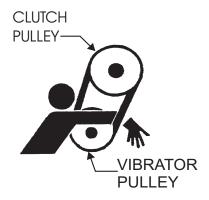


Figure 5. V-Belt Hazard

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

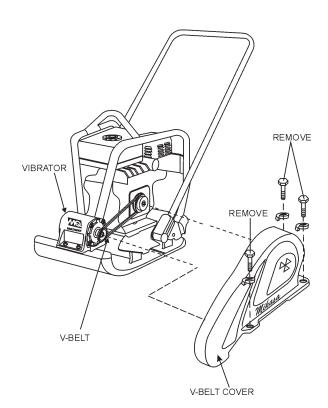


Figure 6. V-Belt Cover Removal

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.

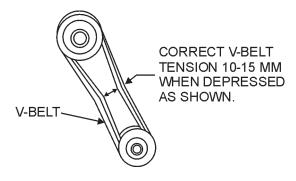


Figure 7. V-Belt Tension

- A loose V-belt will decrease the power transmission output, causing reduced compaction and premature wear of the helt
- 4. If the V-belt becomes worn or loose, replace it by using V-belt part number RPF-3320 or A-32.

Vibrator Oil Check

- 1. Place the MVC-88GH/GHW plate compactor horizontally on a flat surface. Make sure the compactor is level when checking the oil in the vibrator assembly.
- 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 oz.). IMPORTANT, if oil is required, replace using only SAE 10W-30 motor oil.

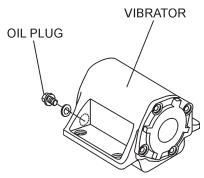


Figure 8. Vibrator Oil Plug

CAUTION



DO NOT attempt to operate the compactor until the Safety, General Information and Inspection sections of this manual have been *read and thoroughly understood*.

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

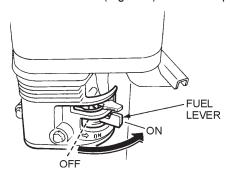


Figure 9. Fuel Valve Lever

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

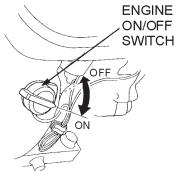


Figure 10. Engine ON/Off Switch

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

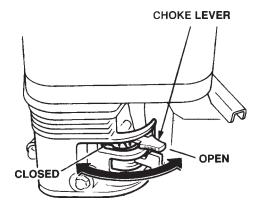


Figure 11. Choke Lever

NOTICE

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.

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

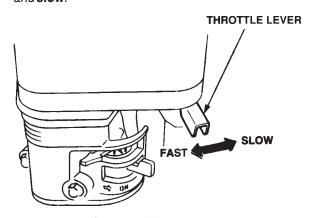


Figure 12. Throttle Lever

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.

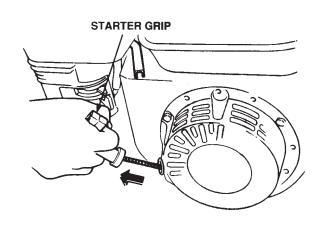


Figure 13. Starter Grip

- 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.
- Before the compactor is put into operation run the engine for 3-5 minutes.
- 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.
- With the throttle lever in the fast position, the engine speed should be around 2,300 RPM, therefore engaging the centrifugal clutch.

NOTICE

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

- Firmly gasp the compactor's handle bar with both hands, the compactor will begin moving forward.
- 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.

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

Inspection and Maintenance Service Tables.

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



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.

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	Х					
Engine Oil	CHANGE		Х				
Air Cleaner	CHECK	Х					
All Cleaner	CHANGE			X (1)			
All Nuts & Bolts	Re-tighten If Necessary	Х					
Consult Dive	CHECK-CLEAN				Х		
Spark Plug	REPLACE						Х
Cooling Fins	CHECK				Х		
Spark Arrester	CLEAN					Х	
Fuel Tank	CLEAN					Х	
Fuel Filter	CHECK					Х	
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				
(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				
Vibrator oil replacement Every 200 hours					
V-belt (clutch) check Every 200 hour					

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.								
TI	TIGHTENING TORQUE (in. kg/cm) Diameter							er
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 oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
- Replace engine oil with recommended type oil as listed in Table 3. For engine oil capacity, see Table 2 (engine specifications). DO NOT overfill.
- Install drain bolt with sealing washer and tighten securely.

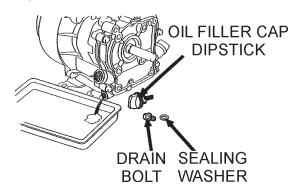


Figure 14. Engine Oil (Draining)

ENGINE AIR CLEANER

- 1. Remove the air cleaner cover and foam filter element as shown in Figure 15.
- 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/cm²)] 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.
- 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.

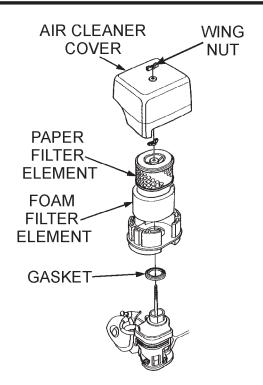


Figure 15. Air Cleaner

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 replaceing 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

 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.

A

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.

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.

TROUBLESHOOTING

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				
	Spark plug bridging?	Check gap, insulation or replace spark plug.				
Difficult to start, "fuel is available, but no	Carbon deposit on spark plug?	Clean or replace spark plug.				
SPARK at 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.				
	ON/OFF switch is shorted?	Check switch wiring, replace switch.				
	Ignition coil defective?	Replace ignition coil.				
Difficult to start, "fuel is available, and SPARK is present at the spark plug".	Improper spark gap, points dirtry?	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 short life at its control to	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.				
Difficult to start, "fuel is available, spark is present and compression is normal"	Water or dust in fuel system?	Flush fuel system.				
	Air cleaner dirty?	Clean or replace air cleaner.				
	Suction/exhaust valve stuck or protruded?	Re-seat valves.				
Difficult to start, "fuel is available, spark	Piston ring and/or cylinder worn?	Replace piston rings and or piston.				
is present and compression is low"	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.				
	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.				
No fuel present at carburetor.	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.				

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TABLE 7. ENGINE TROUBLESHOOTING (CONTINUED)					
SYMPTOM	POSSIBLE CAUSE	SOLUTION			
	Air cleaner not clean?	Clean or replace air cleaner			
"Weak in power" compression is	Improper level in carburetor?	Check float adjustment, re-build carbureator.			
proper and does not misfire.	Defective Spark plug?	Clean or replace spark plug.			
	Defective Spark plug?				
IIIAA ala isa arawali arawa arawa isa	Water in fuel system?	Flush fuel system, and replace with correct type of fuel.			
"Weak in power" compression is proper but misfires.	Dirty spark plug?	Clean or replace spark plug.			
	Ignition coil defective?	Replace ignition coil.			
	Spark plug heat value improper?	Replace with correct type of spark plug.			
Engine overheats.	Correct type of fuel?	Replace with correct type of fuel			
	Cooling fins dirty?	Clean cooling fins.			
	Governor adjusted correctly?	Adjust governor.			
Rotational speed fluctuates.	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.			
	Sprial spring loose?	Replace sprial spring.			

TABLE 8. PLATE COMPACTOR TROUBLESHOOTING				
SYMPTOM POSSIBLE CAUSE		SOLUTION		
	Engine speed too low?	Set engine speed to correct RPM.		
Travel speed too low, and vibration is weak.	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.		

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NOTES

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EXPLANATION OF CODE 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

<u>NO.</u>	<u>PART NO.</u>	PART NAME	<u>QTY.</u>	<u>REMARKS</u>
1	12345	BOLT	1	.INCLUDES ITEMS W/%
2%		WASHER, 1/4 I	N	.NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 I	N1	.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.

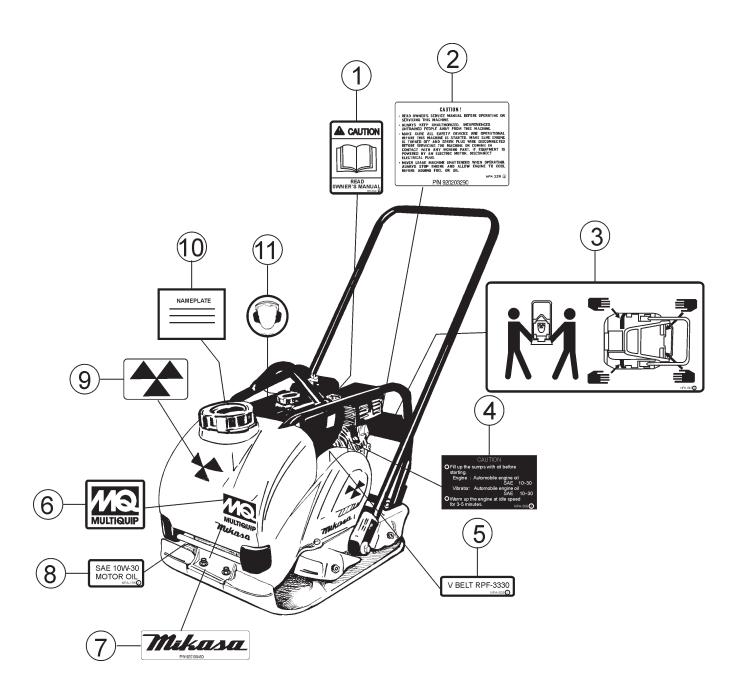
"Not Sold Separately" — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

SUGGESTED SPARE PARTS

MVC-88GH/GW 1 TO 5 UNITS WITH HONDA GX160K1QMX2 ENGINE

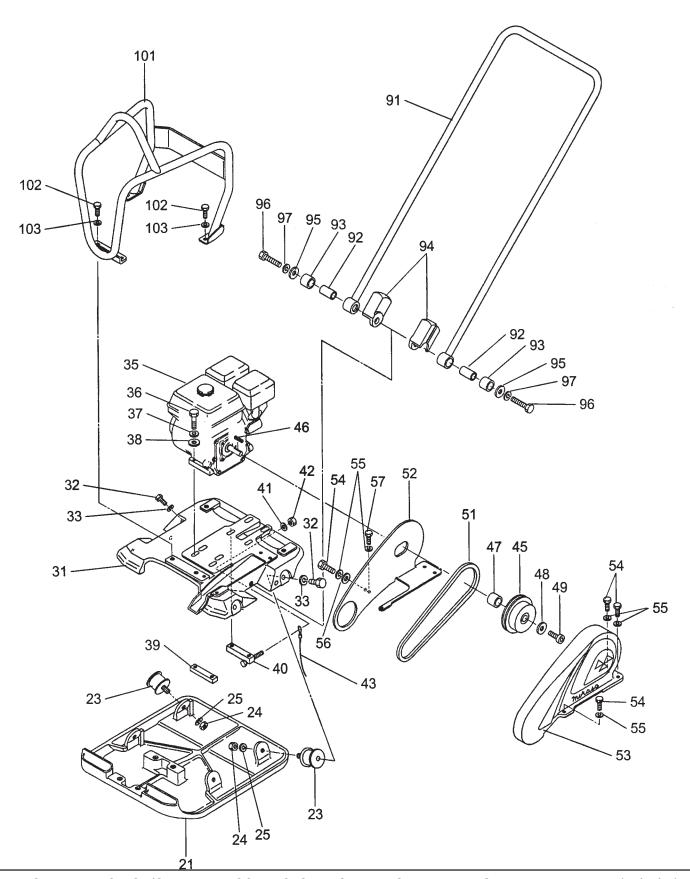
1 to 5 Units

Qty.	P/N	<u>Description</u>
3	o70100332	V-BELT
1	060403060	OIL SEAL, VIBRATING
	050101000	
	9807956841	
1	28462ZH8003	ROPE, RECOIL STARTER
1	36100ZE1015	SWITCH ASSY, ENGINE STOP
5	17210ZE1822	ELEMENT, A/C
1	17620ZH7023	CAP, FUEL TANK
1	17672ZE2W01.	FUEL FILTER, FUEL TANK
4	939010140	SHOCK ABSORBER



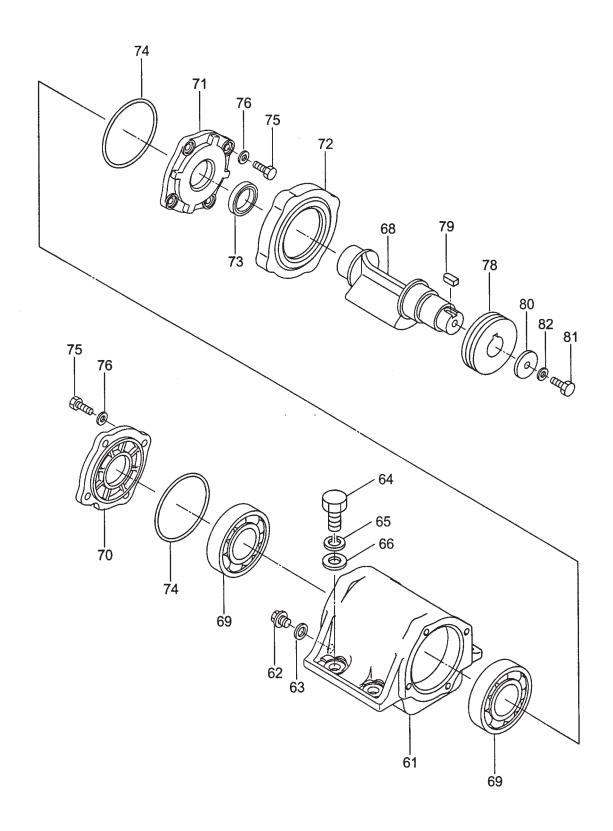
NAME PLATE AND DECALS

NO	PART NO	PART NAME QTY. REMARKS
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-33301 NPA-835
6	920201580	DECAL, MQ LOGO2 NPA-158
7	920106460	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		PLATE, SERIAL NO./MVC-MQ1 CONTACT MQ PARTS DEPT. W/ MODEL & S/N
11	920203330	EAR PROTECTION LABEL1 NPA-333



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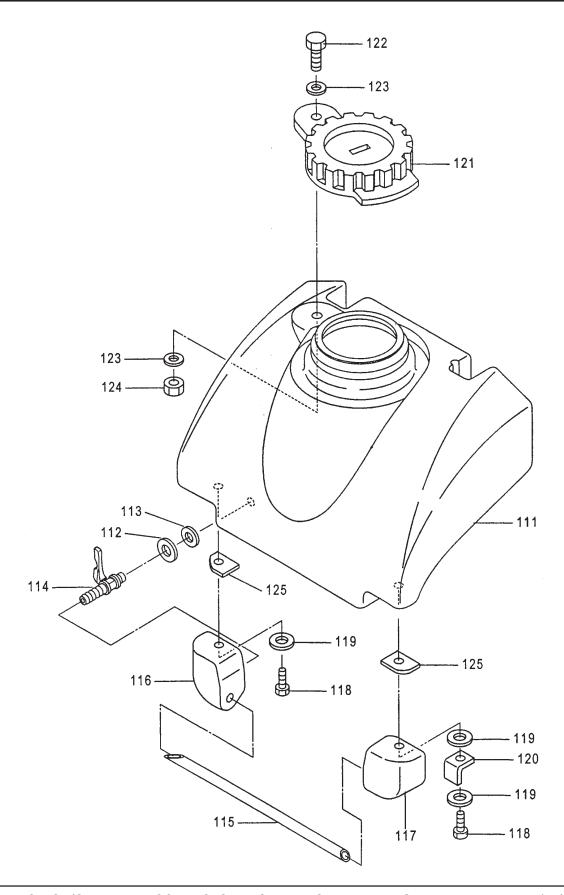
NO.	DARTNO	DADT NAME	OTV	DEMARKS
<u>NO</u> 21	PART NO	<u>Part Name</u> Vibrating plate	<u>QTY.</u> 1	REMARKS
	416115971	SHOCK ABSORBER 50D-45H	4	
23	939010140		4	
24	020310080	NUT M10	4	
25	030210250	WASHER SW M10	4	
31	416115980	BASE	I 4	
32	001221025	BOLT 10X25 T	4	
33	030210250	WASHER, LOCK M10	4	
35	912216006	ENGINE ASSY. GX160K1QMX2	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	951010170	KEY 4.77X4. 77X35	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	416116000	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	416115930	HANDLE	1	
92	416452730	COLLAR 13-20-44	2	
93	404433430	RUBBER 20X32X28.5/52H	2	
94	416452360	HANDLE STOPPER	2	
95	952405600	WASHER 12.5X35X4.5	2	
96	001211253	BOLT 12X65 H	2	
97	030212300	WASHER, LOCK M12	2	
101	416115940	GUARD HOOK/MVC-88	1	
102	001221025	BOLT 10X25 T	4	
103	030210250	WASHER, LOCK M10	4	



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VIBRATOR ASSY.

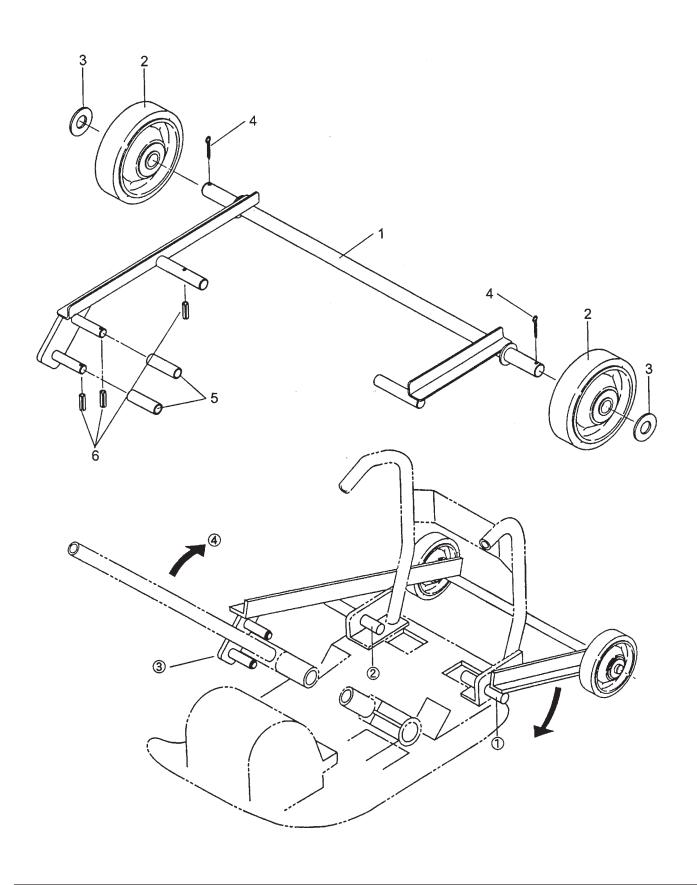
NO	PART NO	PART NAME	QTY.	REMARKS
61	416115990	VIBRATING CASE	1	
62	953400270	PLUG 1/4X14 10L	1	
63	953405260	PACKING 1/4	1	
64	001221635	BOLT 16X35 T	4	
65	030216400	WASHER, LOCK M16	4	
66	031116260	WASHER, FLAT M16	4	
68	416338890	ECCENTRIC ROTATOR	1	
69	040306211	BEARING 6211C3	2	
70	416338900	CASE 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	416452720	PULLEY A1-30-86-20B	1	
79	951405240	KEY 7X7X19 R	1	
80	952404250	WASHER 11X40X4	1	
81	001221025	BOLT 10X25 T	1	
82	030210250	WASHER, LOCK M10	1	



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SPRINKLER ASSY.

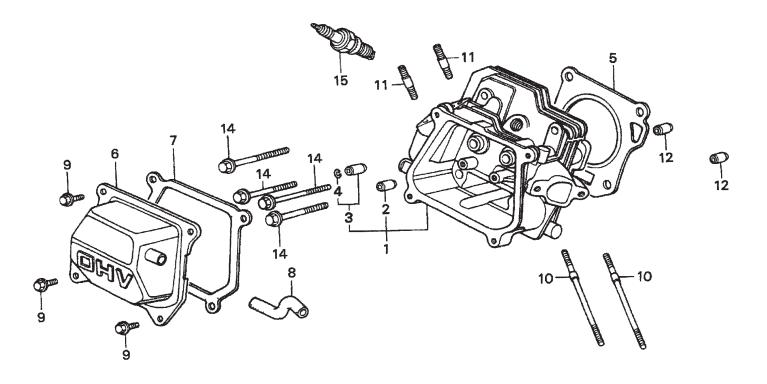
NO	PART NO	PART NAME	QTY.	REMARKS
111	4169100109	WATER TANK ASSY		INCLUDES ITEMS W/*
111A*	416910010	WATER TANK (W/CAP ONLY)	. 1	REPLACES 416116010 INCLUDES ITEMS W/#
112*	033910050	WASHER 14.5X30X1.6	1	
113*	953406390	PACKING 13X28X2	1	
114*	954403241	COCK PT1/4	1	
115*	416338930	SPRINKLING PIPE	1	
116*	416338940	PIPE HOLDER (L)	1	
117*	416452750	PIPE HOLDER (R)	1	
118*	001740825	FLANGE BOLT 8X25	2	
119*	416453780	PACKING 8X19X2T	3	
120*	416452790	STAY, PIPE HOLDER	1	
121*#	954300340	CAP, WATER TANK	1	
122*#	001241030	BOLT 10X30	1	
123*#	033910010	WASHER 10.5X21X2	2	
124*#	022910180	NYLON NUT M10	1	
125*#	416453800	SEAT PACKING	2	



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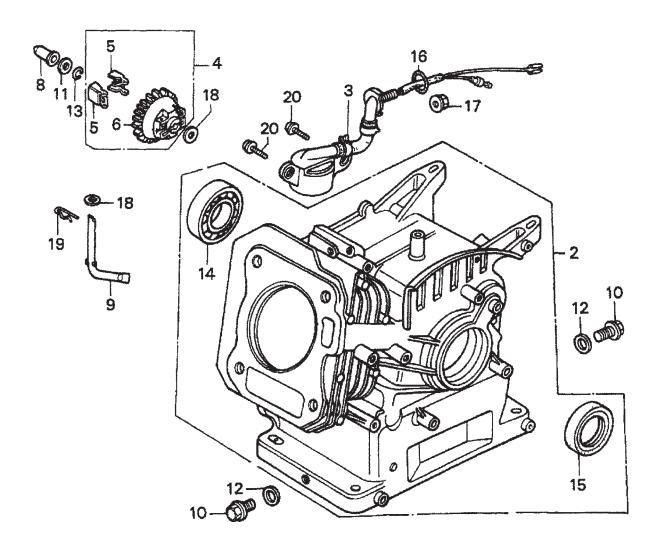
TRANSPORT WHEEL ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
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	



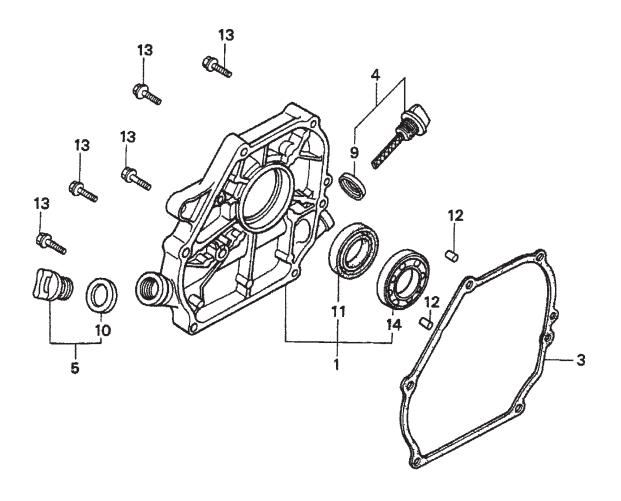
CYLINDER HEAD ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1	12210ZH8020	CYLINDER HEAD	1	. INCLUDES ITEMS W/*
2*	12204ZE1306	GUIDE, VALVE (OS) (OPTIONAL)	1	
3*	12205ZE1315	GUIDE, EX. VALVE (OS) (OPTIONAL)	1	. INCLUDES ITEMS W/#
4* #	12216ZE5300	CLIP, VALVE GUIDE	1	
5	12251ZF1800	GASKET, CYLINDER HEAD	1	
6	12310ZE1010	COVER, HEAD	1	. S/N 7638542 AND BELOW
6	12310ZE1020	COVER, HEAD	1	. S/N 7638543 AND ABOVE
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 109)	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	9807955846	SPARK PLUG (BPR5ES) (NGK)	1	
15	9807956846	SPARK PLUG (BPR6ES) (NGK)	1	



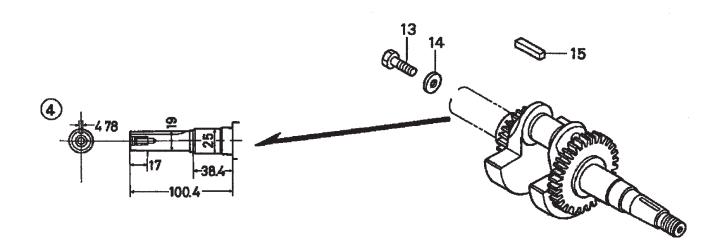
CYLINDER BARREL ASSY.

NO.	PART NO.	PART NAME	QTY. REMARKS
2	12000ZH8811	CYLINDER ASSY. (OIL ALERT)	1 INCLUDES ITEMS W/*
3	15510ZE1023	SWITCH ASSY., OIL LEVEL	1 USE UP TO ENGINE S/N 4367320
3	15510ZE1033	SWITCH ASSY., OIL LEVEL	1 USE FROM ENGINE S/N 4367321
4	16510ZE1000	GOVERNOR ASSY	1 INCLUDES ITEMS W/#
5#	16511ZE1000	WEIGHT, GOVERNOR	2
6#	16512ZE1000	HOLDER, GOVERNOR WEIGHT	1
8	16531ZE1000	SLIDER, GOVERNOR	1
10	90131ZE1000	BOLT, DRAIN PLUG	2
11	90451ZE1000	WASHER, THRUST (6MM)	1
12	90601ZE1000	WASHER, DRAIN PLUG (10.2MM)	2
13	90602ZE1000	CLIP, GOVERNOR HOLDER	1
14*	91001ZF1003	BEARING, RADIAL BALL (6205)	1
15*	91202883005	OIL SEAL (25 X 41 X 6)	1
16	91353671003	O-RING (13.5 X 1.5) (ARAI)	1
17	9405010000	NUT, FLANGE (10MM)	1
18	9410106800	WASHER, PLAIN (6MM)	2
19	9425108000	PIN, LOCK (8MM)	1
20	957010601200	BOLT, FLANGE (6 X 12)	2



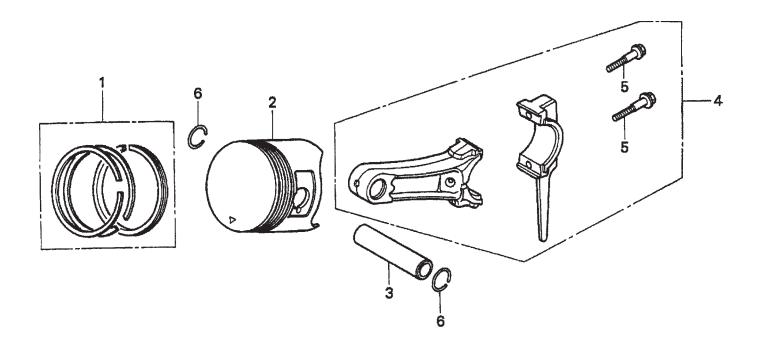
CRANKCASE COVER ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	11300ZE1641	COVER ASSY., CRANKCASE (U-TYPE).	1	. INCLUDES ITEMS W/*
3	11381ZH8801	GASKET, CASE COVER	1	
4	15600ZE1003	CAP ASSY., OIL FILLER	1	. INCLUDES ITEMS W/#
5	15600ZG4003	CAP ASSY., OIL FILLER	1	. INCLUDES ITEMS W/+
9#	15625ZE1003	GASKET, OIL FILLER CAP	1	
10+	15625ZE1003	GASKET, OIL FILLER CAP	1	
11*	91202883005	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	



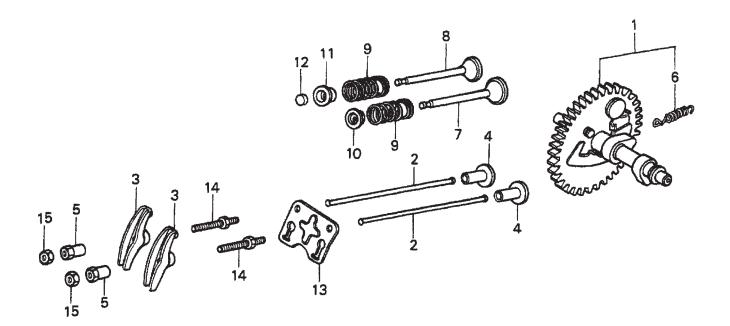
CRANKSHAFT ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
4	13310ZE1601	CRANKSHAFT (Q-TYPE)	1	
13	90003ZE1000	BOLT, HEX 5/16"	1	. USE FROM S/N 6745959
14	90473842000	WASHER, 8 MM	1	. USE FROM S/N 6745959
15	90745ZE1600	KEY, 78 X 38 MM	1	



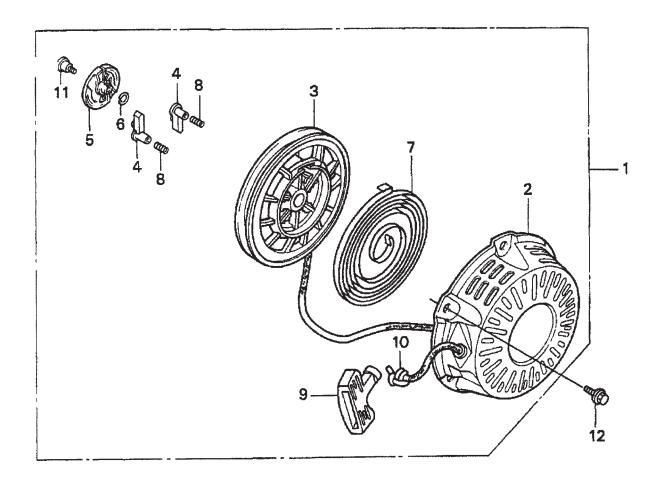
PISTON/RINGS ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	13010ZH8941	RING SET, PISTON (STD)	1	
1	13011ZH8941	RING SET, PISTON (OS 0.25)	1	
1	13012ZH8941	RING SET, PISTON (OS 0.50)	1	USE FROM ENGINE S/N 4733211
1	13013ZH8941	RING SET, PISTON (0.75) OPTION	1	
2	13101ZH8000	PISTON (STD)	1	
2	13102ZH8000	PISTON (OS 0.25)	1	
2	13103ZH8000	PISTON (OS 0.50)	1	
2	13104ZH8000	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	



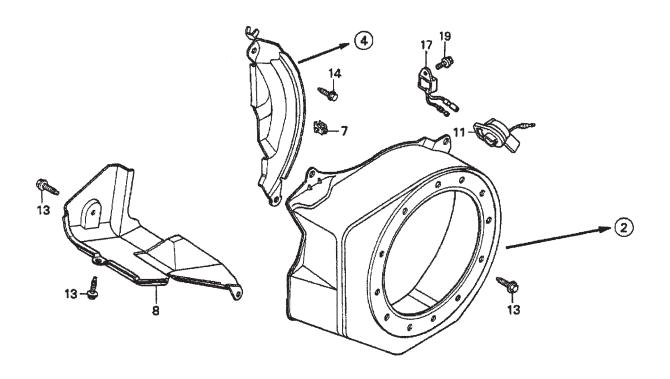
CAMSHAFT ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	14100ZE1812	CAMSHAFT ASSY	1	INCLUDES ITEMS W/*
2	14410ZE1010	ROD, PUSH	2	
3	14431ZE1000	ARM, VLAVE ROCKER	2	
4	14441ZE1010	LIFTER, VALVE	2	
5	14451ZE1013	PIVOT, ROCKER ARM	2	
6*	14568ZE1000	SPRING, WEIGHT RETURN	1	
7	14711ZF1000	VALVE, IN.	1	
8	14721ZF1000	VALVE, EX. (STELITE)	1	
9	14751ZF1000	SPRING VALVE	2	
10	14771ZE1000	RETAINER, IN. VALVE SPRING	1	
11	14773ZE1000	RETAINER, EX. VALVE SPRING	1	
12	14781ZE1000	ROTATOR, VALVE	1	
13	14791ZE1010	PLATE, PUSH ROD GUIDE	1	
14	90012ZE0010	BOLT, PIVOT (8MM)	2	
15	90206ZE1000	NUT, PIVOT ADJ.	2	



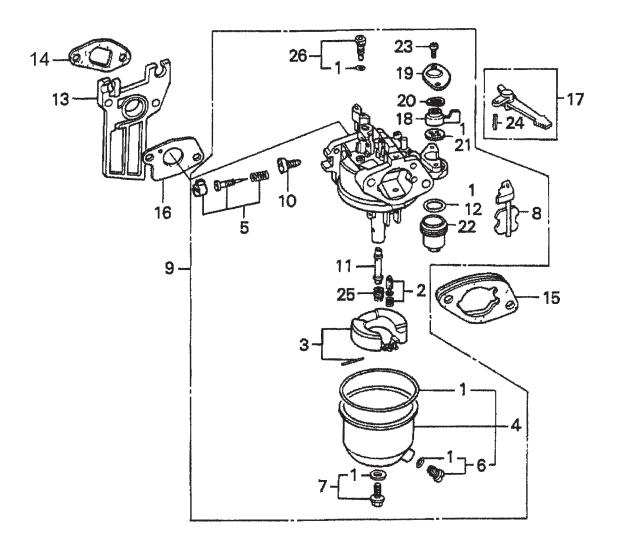
RECOIL STARTER ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	28400ZH8013ZB	STARTER ASSY., RECOIL "NH1" (BLACK)	1	. INCLUDES ITEMS W/*
2*	28410ZH8003ZB	CASE, RECOIL STARTER "NH1" (BLACK)	1	
3*	28420ZH8013	REEL, RECOIL STARTER	1	
4*	28422ZH8013	RATCHET, STARTER	2	
5*	28433ZH8003	GUIDE, RATCHET	1	
6*	28441ZH8003	SPRING, FRICTION	1	
7 *	28442ZH8003	SPRING, RECOIL STARTER	1	
8*	28443ZH8003	SPRING, RETURN	2	
9*	28461ZH8003	KNOB, RECOIL STARTER	1	
10*	28462ZH8003	ROPE, RECOIL STARTER	1	
11*	90003ZH8003	SCREW, SETTING	1	
12	90008ZE2003	BOLT, FLANGE (6 X 10)	3	



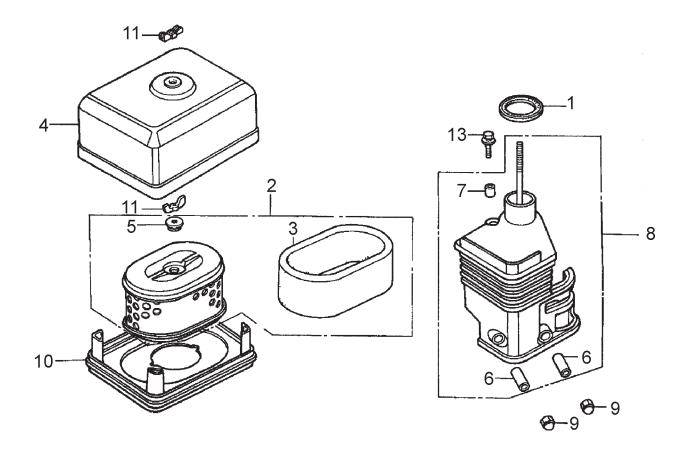
FAN COVER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
2	19610ZE1000ZC	COVER, FAN *NH1* (BLACK)	1	
4	19612ZH8811	PLATE, SIDE (OIL ALERT)	1	
7	90601ZH7013	CLIP, HARNESS	1	
8	19630ZH8000	SHROUD	1	
11	36100ZE1015	SWITCH ASSY., ENGINE STOP	1	. USE UP TO S/N 4368640
11	36100ZH7003	SWITCH ASSY., ENGINE STOP	1	. USE FROM 4368641
13	90013883000	BOLT, FLANGE (6 X 12) (CT200)	6	
14	90022888010	BOLT, FLANGE (6 X 20) (CT200)	1	
17	34150ZH7003	ALERT UNIT, OIL	1	
19	957010600800	BOLT, FLANGE (6 X 8)	1	



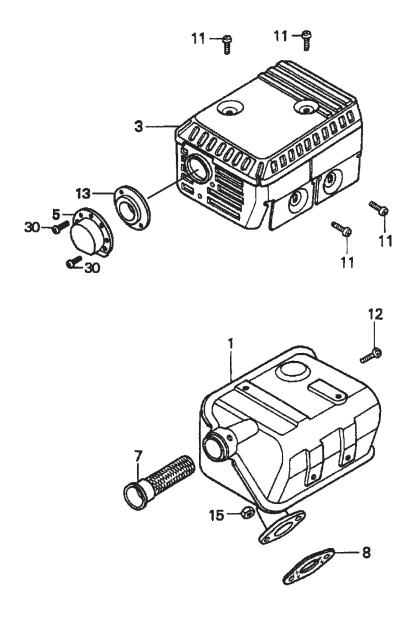
CARBURETOR ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	16010ZE1812	GASKET SET	1	HEMATIKO
2*	16011ZE0005	VALVE SET, FLOAT	1	
_ 3*	16013ZE0005	FLOAT SET	1	
4*	16015ZE0831	CHAMBER SET, FLOAT	1	
5*	16016ZH7W01	SCREW SET	1	
6*	16024ZE1811	SCREW SET, DRAIN	1	
7*	16028ZE0005	SCREW SET B	1	
8*	16044ZE0005	CHOKE SET	1	
9*	16100ZH8W51	CARBURETOR ASSY. (BE65B B)	1	INCLUDES ITEMS W/*
10*	16124ZE0005	SCREW, THROTTLE STOP	1	
11*	16166ZH8W50	NOZZLE, MAIN	1	
12*	16173001004	O-RING	1	
13	16211ZE1000	INSULATOR, CARBURETOR	1	
14	16212ZH8800	GASKET, INSULATOR	1	
15	16220ZE1020	SPACER, CARBURETOR	1	
16	16221ZH8801	GASKET, CARBURETOR	1	
17	16610ZE1000	LEVER, CHOKE (STD)	1	INCLUDES ITEMS W/#
18*	16953ZE1812	LEVER, VALVE	1	
19*	16954ZE1811	PLATE, LEVER SETTING	1	
20*	16956ZE1811	SPRING, VALVE LEVER	1	
21*	16957ZE1812	GASKET, VALVE	1	
22*	16967ZE0811	CUP, FUEL STRAINER	1	
23*	93500030060H	SCREW, PAN (3 X 6)	2	
24#	9430520122	PIN, SPRING (2 X 12)	1	
25	99101ZH80650	JET, MAIN (#65) OPTIONAL	1	
25	99101ZH80680	JET, MAIN (#68) OPTIONAL	1	
25*	99101ZH80700	JET, MAIN (#70)	1	
26*	99204ZE00350	JET, SET, PILOT (#35)	1	



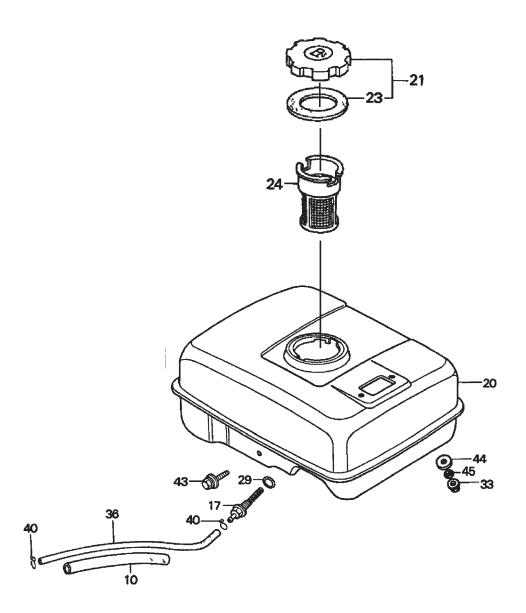
AIR CLEANER ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1	16271ZE1000	GASKET, ELBOW	1	. INCLUDES ITEMS W/*
2	17210ZE1505	ELEMENT, AIR CLEANER (DUAL)	1	
3*	17218ZE1505	FILTER (OUTER)	1	
4	17230ZE1820	COVER, AIR CLEANER (DUAL)	1	
5*	17232891000	GROMMET, AIR CLEANER	1	
6#	17238ZE7010	COLLAR, AIR CLEANER	2	
7#	17239ZE1000	COLLAR B, AIR CLEANER	1	
8	17410ZE1020	ELBOW, AIR CLEANER	1	. INCLUDES ITEMS W/#
9	90201415000	NUT, CAP (6 MM)	2	
10	17235ze1831	NOSE, MUFFLER	1	
11	90325044000	WINGNUT, TOOL BOX SETTING	2	
13	957010602000	BOLT, FLANGE (6 X 20)	1	



MUFFLER ASSY.

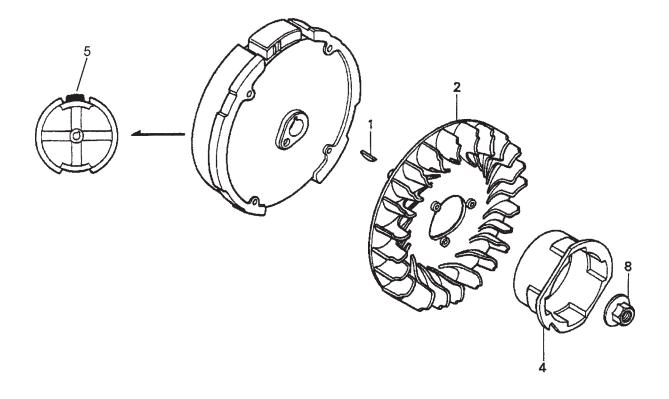
<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	18310ZH8810	MUFFLER	1	. USE UP TO S/N 6745959
1	18310ZK8V50	MUFFLER	1	. USE FROM S/N 6745959
3	18320ZF1H01	PROTECTOR, MUFFLER	1	
5	18331883810	CAP, MUFFLER	1	
7	18355ZE1000	ARRESTER, SPARK	1	
8	18381ZH8800	GASKET, MUFFLER	1	
11	90050ZE1000	SCREW, TAPPING (5 X 8)	4	
12	90055ZE1000	SCREW, TAPPING (4 X 6)	1	
13	18522ZE1000	GUIDE, MUFFLER	1	
15	94001080000S	NUT, HEX (8MM)	2	
30	90002ZG0003	SCREW, TAPPING (4 X 8)	2	



FUEL TANK ASSY.

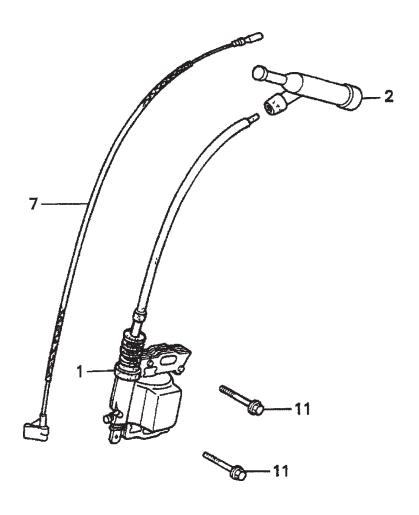
NO.	PART NO.	PART NAME	QTY.	REMARKS
10	16854ZH8000	RUBBER, SUPPORTER (107MM)	1	
17	16955ZE1000	JOINT, FUEL TANK	1	
20	17510ZE1020ZF	TANK, FUEL *NH1* (BLACK)	1	
21	17620ZH7023	CAP, FUEL FILLER	1	. INCLUDES ITEMS W/*
23*	17631ZH7003	GASKET, FUEL FILLER CAP	1	
24	17672ZE2W01	FILTER, FUEL	1	
29	91353671003	O-RING (13.5 X 1.5) (ARAI)	1	
33	9405006000	NUT, FLANGE (6MM)	2	
36	950014500360M	BULK HOSE, FUEL (4.5 X 3000)	1	
		(4.5 X 140)		
40	9500202080	CLIP, TUBE (B8)	2	
43	957010602500	BOLT, FLANGE (6 X 25)	1	
44	90404680000	WASHER	2	. USE FROM S/N 6745959
45	91319ME5003	O-RING	2	. USE FROM S/N 6745959

COOLING FAN AND FLYWHEEL ASSY.



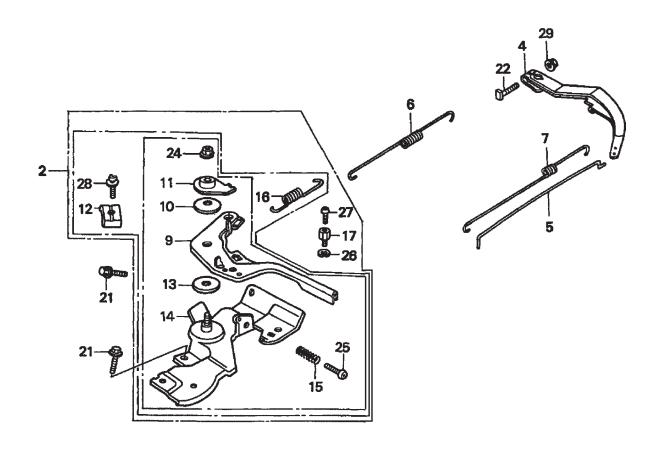
COOLING FAN AND FLYWHEEL ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1	13331357000	KEY, SPECIAL WOODRUFF (25 X 18)	1	
2	19511ZE1000	FAN, COOLING	1	
4	28451ZH8003	PULLEY, STARTER	1	
5	31100ZE1010	FLYWHEEL	1	
5	31100ZE1810	FLYWHEEL (LAMP)	1	
8	90201878003	NUT, SPECIÁL (14MM)	1	



IGNITION COIL ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
1	30500ZE1033	COIL ASSY., IGNITION	1	
2	30700ZE1013	CAP ASSY., NOISE SUPPRESSOR	1	
7	36101ZE1010	WIRE, STOP SWITCH (370MM)	1	
11	90121952000	BOLT, FLANGE (6 X 25)	2	



CONTROL ASSY.

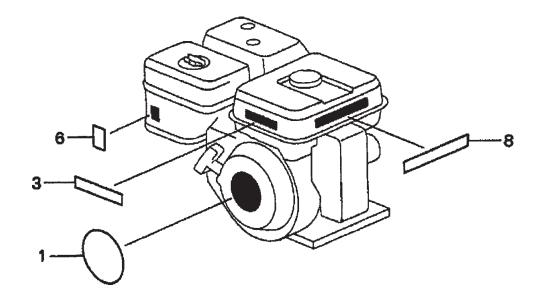
NO.	PART NO.	PART NAME	QTY. REMARKS
2	16500ZH8813	CONTROL ASSY	1 INCLUDES ITEMS W/*
4	16551ZE0010	ARM, GOVERNOR	1
5	16555ZE1000	ROD, GOVERNOR	1
6	16561ZE1020	SPRING, GOVERNOR	1
7	16562ZE1020	SPRING, THROTTLE RETURN	1
9*	16571ZH8020	LEVER CONTROL	1
10*	16574ZE1000	SPRING LEVER	1
11*	16575ZH8000	WASHER, CONTROL LEVER	1
12*	16576891000	HOLDER, CABLE	1
13*	16578ZE1000	SPACER, CONTROL LEVER	1
14*	16580ZH8813	BASE CONTROL	1
15*	16584883300	SPRING, CONTROL ADJUSTING	1
16*	16592ZE1810	SPRING, CABLE RETURN	1
17*	16594883010	HOLDER, WIRE	1
21	90013883000	BOLT, FLANGE (6 X 12) (CT200)	2
22	90015ZE5010	BOLT, GOVERNOR ARM	1
24*	90114SA0000	NUT, SELF-LOCK (6MM)	1
25*	93500050250H	SCREW, PAN (5 X 25)	1
26*	90605230000	CIRCLIP	1
27*	93500040060H	SCREW, PAN (5 X 25)	1
28*	93500050160A	SCREW, PAN (5 X 16)	1
29	9405006000	NUT, FLANGE (6MM)	1

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NO ARTWORK AVAILABLE

GASKET KIT ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	06111ZH8405	GASKET KIT	1	INCLUDES ITEMS W/*
2*	11381ZH8801	GASKET, CASE COVER	1	
3*	12251ZF1800	GASKET, CYLINDER HEAD	1	
4*	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
5*	16212ZH8800	GASKET, INSULATOR	1	
6*	16221ZH8801	GASKET, CARBURETOR	1	
7 *	18381ZH8800	GASKET, MUFFLER	1	



LABELS ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY. REMARKS
1	87521ZH8020	EMBLEM (5.5)	1
3	87522zh9010	LABEL, CAUTION	1
6	87528ZE1810	MARK, CHOKE	1
8	87532ZH8810	MARK, OIL ALERT (E)	1

TERMS AND CONDITIONS OF SALE — PARTS

PAYMENT TERMS

Terms of payment for parts are net 30 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is \$15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

- A Returned Material Authorization must be approved by Multiquip prior to shipment.
- To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
 - The parts numbers and descriptions must match the current parts price list.
 - The list must be typed or computer generated.
 - c. The list must state the reason(s) for the return.
 - d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
 - The list must include the name and phone number of the person requesting the RMA.
- 3. A copy of the Return Material Authorization must accompany the return shipment.
- Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.

- Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
- 6. The following items are not returnable:
 - Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
 - Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
 - Any line item with an extended dealer net price of less than \$5.00.
 - d. Special order items.
 - e. Electrical components.
 - f. Paint, chemicals, and lubricants.
 - g. Decals and paper products.
 - h. Items purchased in kits.
- 7. The sender will be notified of any material received that is not acceptable.
- Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
- Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
- 10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
- 11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A \$35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

Effective: February 22, 2006

NOTES

MVC88GH/GHW PLATE COMPACTOR — OPERATION AND PARTS MANUAL — REV. #5 (01/11/11) — PAGE 73

OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

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

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave. Carson, CA 90746 Fax (800) 537-3927

Contact: mg@multiquip.com

Service Department

800-421-1244 310-537-3700

Technical Assistance

800-478-1244

Fax: 310-943-2238

Fax: 310-537-4259

Tel. (800) 421-1244

MQ Parts Department

800-427-1244 310-537-3700 Fax: 800-672-7877 Fax: 310-637-3284

Warranty Department

800-421-1244 310-537-3700 Fax: 310-537-1173

MEXICO

MQ Cipsa

Carr. Fed. Mexico-Puebla KM 126.5 Momoxpan, Cholula, Puebla 72760 Mexico Contact: pmastretta@cipsa.com.mx

Tel: (52) 222-225-9900

Fax: (52) 222-285-0420

Unit 2, Northpoint Industrial Estate, Globe Lane.

Dukinfield, Cheshire SK16 4UJ Contact: sales@multiquip.co.uk

UNITED KINGDOM

Multiquip (UK) Limited Head Office

Tel: 0161 339 2223 Fax: 0161 339 3226

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Multiquip

4110 Industriel Boul. Tel: (450) 625-2244 Laval, Quebec, Canada H7L 6V3 Tel: (877) 963-4411 Contact: jmartin@multiquip.com Fax: (450) 625-8664

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