

# OPERATION AND PARTS MANUAL



*Mikasa* SERIES

**MODEL MVH128GH**  
**REVERSIBLE PLATE COMPACTOR**  
**(HONDA GX160UT2SCM GASOLINE ENGINE)**

Revision #0 (03/08/18)

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## PROPOSITION 65 WARNING

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 <b>WARNING</b> 
<b>CALIFORNIA — Proposition 65 Warning</b>
Gasoline engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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### NOTICE

Specifications and part numbers are subject to change without notice.

# SAFETY INFORMATION

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



## SAFETY MESSAGES

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

## SAFETY SYMBOLS

**! DANGER**

Indicates a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**.

**! WARNING**

Indicates a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

**! CAUTION**

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE INJURY**.

**NOTICE**

Addresses practices not related to personal injury.

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

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

# SAFETY INFORMATION

## GENERAL SAFETY

### CAUTION

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



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



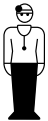
- **NEVER** operate this equipment under the influence of drugs or alcohol.



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

### NOTICE

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



# SAFETY INFORMATION

## COMPACTOR SAFETY

### DANGER

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



### WARNING

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

### CAUTION

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

### NOTICE

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

## ENGINE SAFETY

### DANGER

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



### WARNING

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



### CAUTION

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



### NOTICE

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

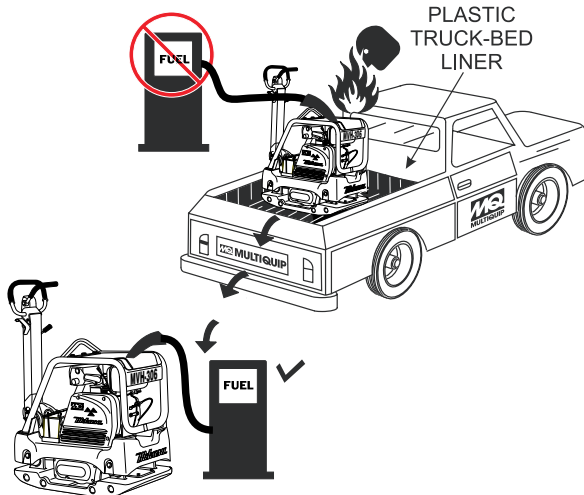


# SAFETY INFORMATION

## FUEL SAFETY

### DANGER

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



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



## BATTERY SAFETY (ELECTRIC START ONLY)

### DANGER

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



### WARNING

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



### CAUTION

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



# SAFETY INFORMATION

## 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/DECOMMISSIONING

### NOTICE

Decommissioning is a controlled process used to safely retire a piece of equipment that is no longer serviceable. If the equipment poses an unacceptable and unrepairable safety risk due to wear or damage or is no longer cost effective to maintain (beyond life-cycle reliability) and is to be decommissioned (demolition and dismantlement), be sure to follow rules below:

- DO NOT pour waste or oil directly onto the ground, down a drain or into any water source.
- Contact your country's Department of Public Works or recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.



- When the life cycle of this equipment is over, remove battery and bring to appropriate facility for lead reclamation. Use safety precautions when handling batteries that contain sulfuric acid.

- When the life cycle of this equipment is over, it is recommended that the trowel frame and all other metal parts be sent to a recycling center.

Metal recycling involves the collection of metal from discarded products and its transformation into raw materials to use in manufacturing a new product.

Recyclers and manufacturers alike promote the process of recycling metal. Using a metal recycling center promotes energy cost savings.

## EMISSIONS INFORMATION

### NOTICE

The diesel engine used in this equipment has been designed to reduce harmful levels of carbon monoxide (CO), hydrocarbons (HC) and nitrogen oxides (NOx) contained in diesel exhaust emissions.

This engine has been certified to meet US EPA Evaporative emissions requirements in the installed configuration.

Attempting to modify or make adjustments to the engine emission system by unauthorized personnel without proper training could damage the equipment or create an unsafe condition.

Additionally, modifying the fuel system may adversely affect evaporative emissions, resulting in fines or other penalties.

### Emission Control Label

The emission control label is an integral part of the emission system and is strictly controlled by regulations.

The label must remain with the engine for its entire life.

If a replacement emission label is needed, please contact your authorized Kohler Engine Distributor.

# SPECIFICATIONS

<b>Table 1. MVH128GH Specifications</b>	
Centrifugal Force	5,283 lbf (23.5 kN)
Vibration Frequency	5,400 vpm (90 Hz)
Maximum Traveling Speed	89 ft/min (27 m/min)
Plate Size (W x L)	15.75 x 23.23 in (400 x 590 mm)
Max. Forward Speed	89 ft./min (27 m/min)
Operating Weight	268.96 lbs. (122 kg.)

<b>Table 2. Engine Specifications</b>	
Engine Make	HONDA
Engine Model	GX160UT2SCM
Engine Type	Air-cooled 4 stroke, Single Cylinder, OHV Horizontal Shaft Gasoline Engine
Cylinder Bore X Stroke	2.7 in. x 1.8 in. (68 mm x 45 mm)
Displacement	12.0 cu-in (196 cc)
Maximum Output	4.8 HP (3.6 kW) @ 3600 RPM
Fuel Tank Capacity	Approx. 0.95 U.S. gallons (3.6 liters)
Fuel Type	Unleaded Automobile Gasoline
Oil Capacity	0.63 qts (0.6 liters)
Air Cleaner	Cyclone Filter Element
Starting Method	Recoil Start
Dry Net Weight	23.1 lbs (10.48 Kg.)
Dimensions (L x W x H)	12.0 x 14.2 x 13.2 in. (304 x 362 x 335 mm)

<b>Table 3. Noise and Vibration Emissions</b>	
Measured Sound Power Level in dB(A)	105
Guaranteed Sound Power Level in dB(A)	107
Guaranteed Sound Pressure Level at Operator Station in dB(A)	93
Hand-Arm Vibration in m/s <sup>2</sup>	3.4

## NOTES:

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

# DIMENSIONS

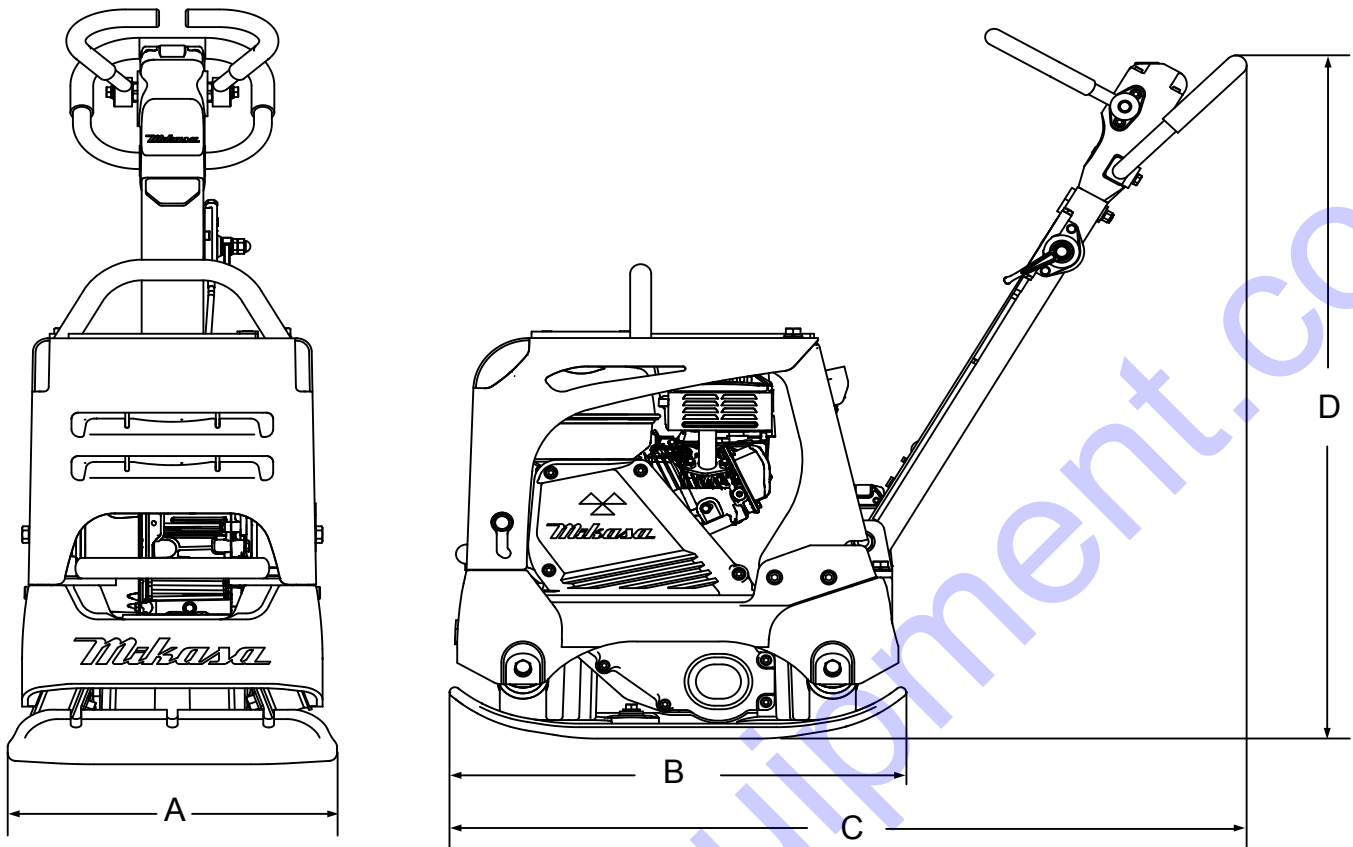


Figure 1. Dimensions

Table 4. Dimensions	
REF. DES.	IN. (MM)
A	15.75 (400)
B	23.23 (590)
C	40.55 (1030)
D	38.00 (965)

## GENERAL INFORMATION

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### DEFINITION OF PLATE COMPACTOR

The Mikasa MVH128GH is a reversible plate compactor designed for efficient compaction of sand, gravel and cohesive soils. 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 compactor 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 produces a vibration frequency of 5,400 VPM (vibrations per minute). The travel speed of the compactor is approximately 89 ft/min (27 meters/minute).

### ENGINE

This plate compactor is equipped with a Honda GX160UT2SCM, 4.8 HP air cooled, 4-cycle gasoline engine. The engine drives an eccentric weight at a high speed to develop a compaction force. Reference Table 2 for detailed specifications.

### CONTROLS

Before starting the plate compactor identify and understand the function of all the controls and components.

# COMPONENTS

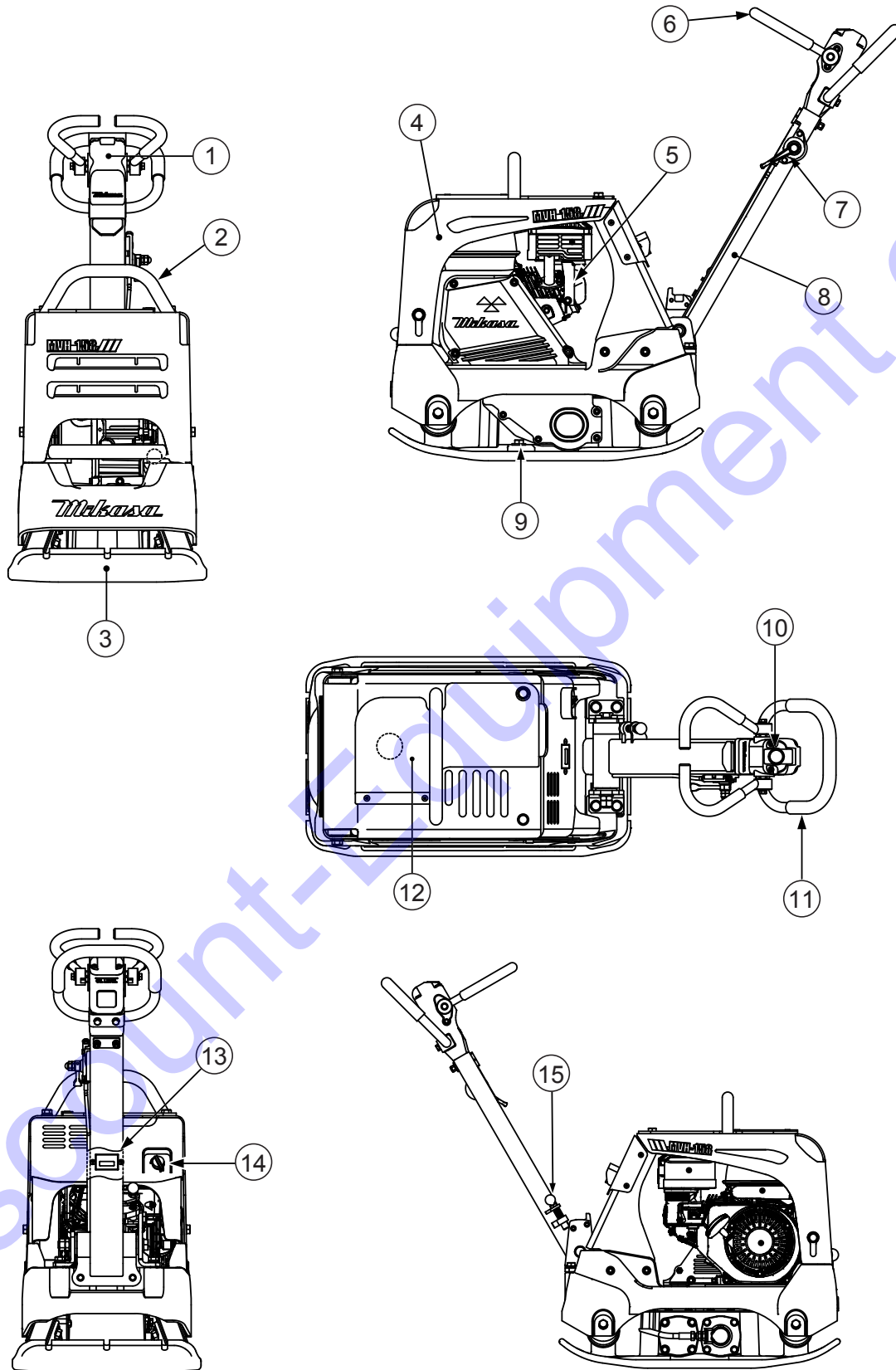


Figure 2. Plate Compactor Components

## COMPONENTS

Figure 2 shows the location of the basic controls and components of the MVH128GH Plate Compactor. The function of each control is described below:

1. **Hydraulic Pump (Oil Reservoir)** — Regulates hydraulic oil flow produced by the direction of the control lever.
2. **Lifting Bale** — When lifting of the compactor is required either by forklift, crane etc., tie rope or chain around this lifting point.
3. **Vibrating Plate** — A flat, open plate made of durable cast iron construction used in the compacting of soil.
4. **Front Cover** — Open to access engine and other components.
5. **Engine** — This plate compactor uses a Honda GX160 4.8 HP series gasoline engine. Refer to the owner's manual for engine information.
6. **Direction Control Lever** — *Push* the lever forward to move compactor in a forward direction. *Pull* the lever backwards to move compactor in backwards direction. Placing the lever in the middle (midway) will cause the compactor not to move (neutral).
7. **Throttle Lever** — Controls speed of the plate compactor. Place straight vertically to start, **push** fully counterclockwise for full throttle and fully clockwise to stop plate compactor.
8. **Handle Bar** — When operating the compactor, this handle is to be in the downward position. When the compactor is to be **stored**, move the handle bar to the upright position.
9. **Vibration Case Oil Filler** — Used to add oil to the vibration case.
10. **Breather Plug** — Allow pressure to escape to the air in the form of a gas from heat.
11. **Hand Grip** — When operating the compactor use this hand grip to maneuver the compactor.
12. **Rubber Cover** — Lift this rubber cover to gain access to the fuel tank.
13. **Hour/Tachometer** — Displays the cumulative time that the machine has been in use. During operation it displays the rpm reading.
14. **Engine ON-OFF Switch** — Used to turn the engine on or off.
15. **Handle Bar Height Adjuster** — Adjusts the handle bar to the desired height by loosening the wing nut and turning the grip clockwise to raise the handle bar and counterclockwise to lower the handle bar.

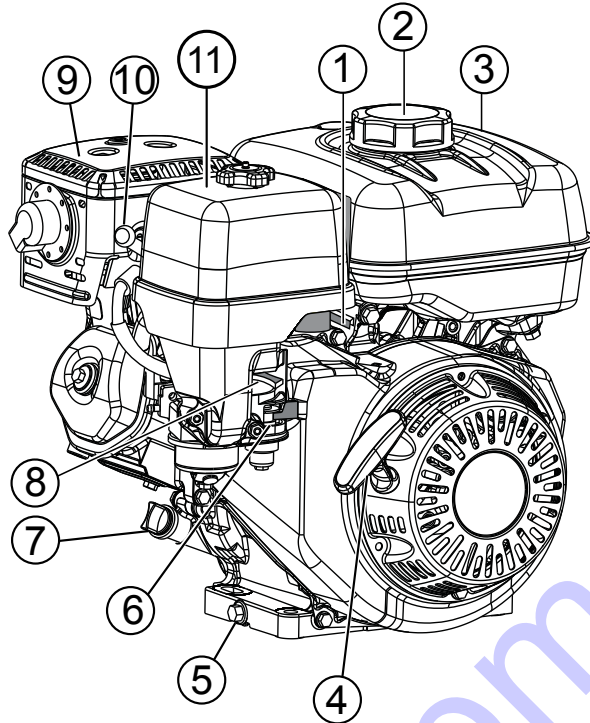


Figure 3. Engine Controls and Components

## INITIAL SERVICING

The engine (Figure 3) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions and details of operation and servicing.-

1. **Throttle Lever** – Used to adjust engine RPM speed. For normal operation this lever should always be placed in the **RUN** position.
2. **Fuel Cap** – Remove this cap to add unleaded gasoline to the fuel tank. Fill with unleaded gasoline.
3. **Fuel Tank** – Refer to Table 2 for fuel tank capacity. Make sure cap is tightened securely. **DO NOT** over fill. For additional information refer to Honda engine owner's manual.

4. **Recoil Starter (Pull Rope)** – Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
5. **Oil Drain Plug** – Remove this plug to remove oil from the engine's crankcase.
6. **Fuel Valve Lever** – **OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel.
7. **Dipstick/Oil Filler Cap** – Remove this cap to determine if the engine oil is low. Add oil through this filler port as recommended in (Table 5).
8. **Choke Lever** – Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
9. **Muffler** – Used to reduce noise and emissions. **NEVER** touch when **hot!**
10. **Spark Plug** – Provides spark to the ignition system. Set spark plug gap according to engine manufacturer's instructions. Clean spark plug once a week.
11. **Air Cleaner** – Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cover to gain access to filter element. Reference the maintenance section in this manual for servicing.

### DANGER



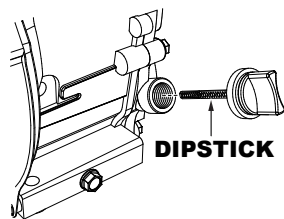
Add fuel to the tank only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up and the area surrounding the engine is dry.

## BEFORE STARTING

1. Read all 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.

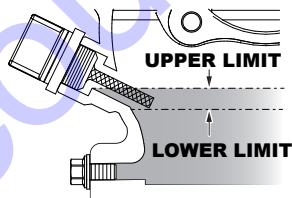
## ENGINE OIL CHECK

1. To check the engine oil level, place the compactor on secure level ground with the engine stopped.
2. Remove the dipstick from the engine oil filler hole (Figure 4) and wipe clean.



**Figure 4. 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 5), fill to the edge of the oil filler hole with the recommended oil type as listed in Table 5. Refer to Table 2 for maximum engine oil capacity.



**Figure 5. Engine Oil Dipstick (Oil Level)**

**Table 5. 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

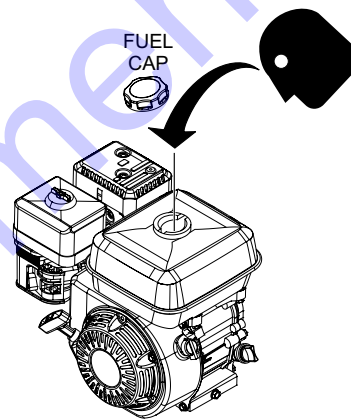


### EXPLOSIVE FUEL!

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

## FUEL CHECK

1. Visually inspect (Figure 6) to see if fuel level is low. If fuel is low, replenish with unleaded fuel.

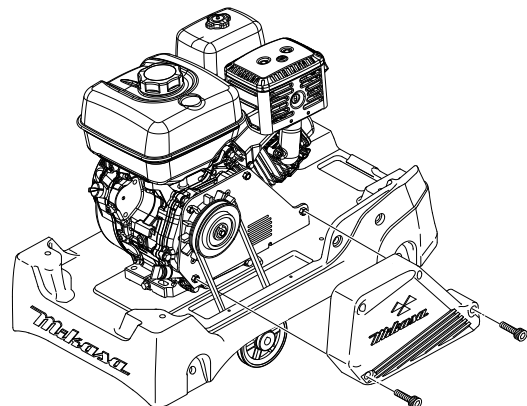


**Figure 6. Fuel Check**

2. When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel immediately.

## V-BELT COVER REMOVAL

To inspect the V-belt, remove the four bolts that secure the belt cover to the frame as shown in Figure 7.



**Figure 7. V-Belt Location**

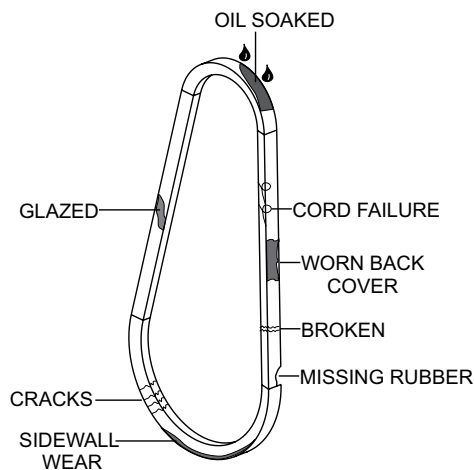


## V-BELT INSPECTION

Visually examine the V-belt (Figure 8) and determine if it is full of tiny cracks, frayed, has pieces of rubber missing, is peeling or otherwise damaged.

Also, examine the belt and determine if it is **oil soaked** or **"glazed"** (hard shiny appearance on the sides of the belt). Either of these two conditions can cause the belt to run hot, which can weaken it and increase the danger of it breaking.

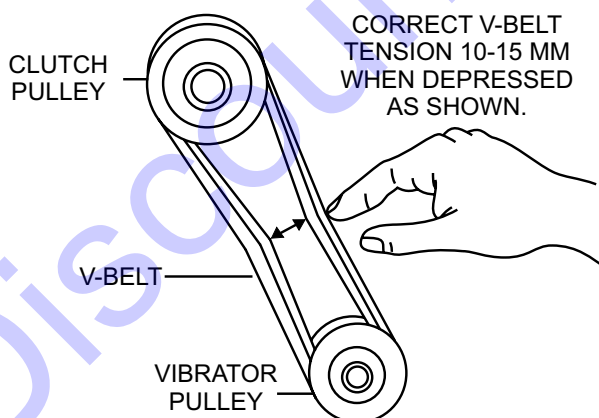
If the V-belt exhibits any of the referenced wear conditions replace the V-belt immediately



**Figure 8. Drive Belt Inspection**

## V-BELT TENSION

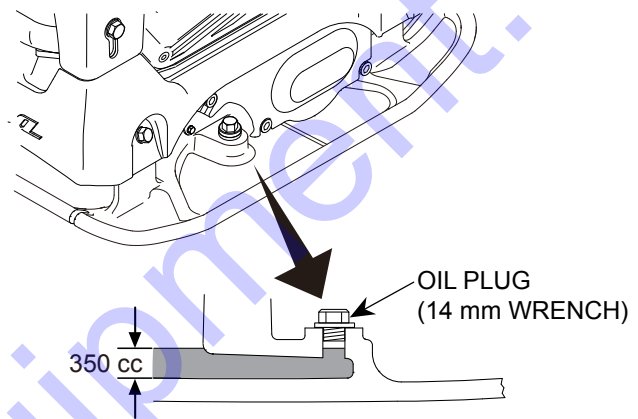
The V-belt tension is proper if the V-belt bends 10 to 15 mm (Figure 9) when depressed with finger at midway between the clutch and vibrator pulleys.



**Figure 9. V-Belt Tension**

## VIBRATOR OIL CHECK

1. Place the 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 oil plug (vibrator oil gauge) as shown in Figure 10. Clean the oil gauge and re-thread back in. Remove the oil gauge again and confirm oil level does not exceed the cross hash of the oil plug. **DO NOT OVERFILL!**



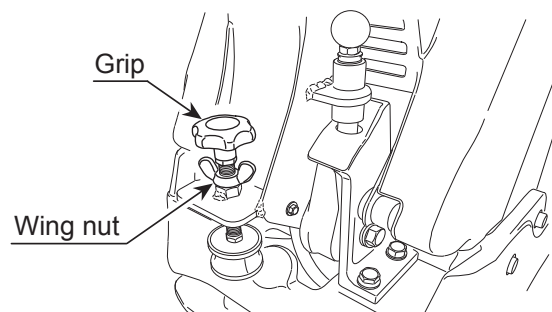
**Figure 10. Vibrator Oil Check**

3. The vibrator holds approximately 11.8 oz. (350 cc). **IMPORTANT**, if oil is required, replace using only SAE 10W-30 motor oil.

## HANDLE BAR

The height of the handle bar can be adjusted for ease of use. Adjust the handle height as follows. Refer to Figure 11.

1. Loosen the wing nut.
2. Turn the grip clockwise to raise the handle or counterclockwise to lower the handle.
3. When the handle bar is raised to the desired height, tighten the wing nut.



**Figure 11. Handle Height Adjustment**

## CAUTION

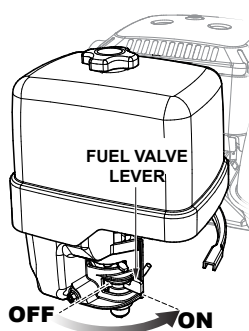


**DO NOT** attempt to operate the compactor until the Safety, General Information and Inspection sections of this manual have been *read and thoroughly understood*.

This section is intended to assist the operator with the initial startup of the compactor. It is extremely important that this section be read carefully before attempting to use the compactor in the field.

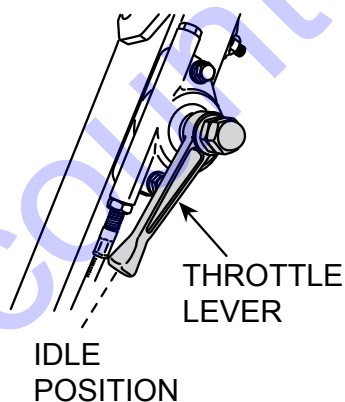
## STARTING THE ENGINE

1. Place the engine fuel valve lever (Figure 12) to the "ON" position.



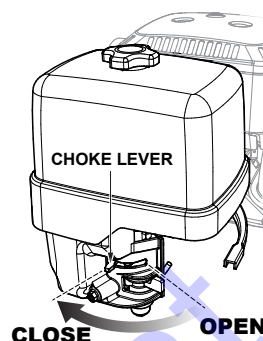
**Figure 12. Engine Fuel Valve Lever (ON Position)**

2. Move the throttle lever (Figure 13) to the *idle* position.



**Figure 13. Throttle Lever (Idle Position)**

3. Place the choke lever (Figure 14) in the "CLOSED" position if starting a cold engine.

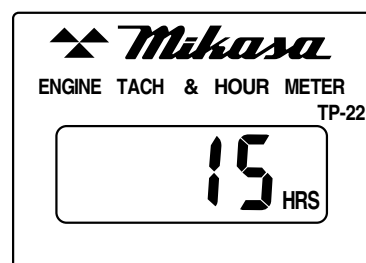


**Figure 14. Choke Lever (Closed)**

## NOTICE

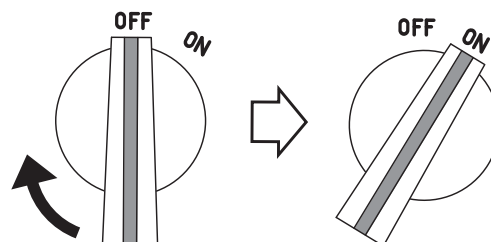
The **CLOSED** position of the choke lever enriches the fuel mixture for starting a **COLD** engine. The **OPEN** position provides the correct fuel mixture for normal operation after starting, and for restarting a warm engine.

4. When the engine is stopped, the hour tachometer always shows "cumulative time" (Figure 15).



**Figure 15. Hour Tachometer (Cumulative Time)**

5. Place the engine ON/OFF switch (Figure 16) in the "ON" position.



**Figure 16. Engine ON/OFF Switch (ON Position)**

## STARTUP

6. Grasp the starter grip (Figure 17) 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.

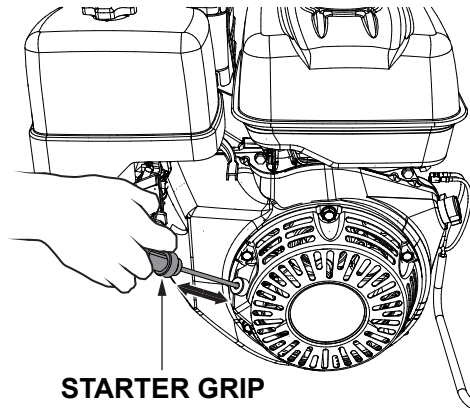


Figure 17. Starter Grip

### NOTICE

**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.

7. When engine starts, release the starter grip and allow the rope to recoil.
8. If the choke lever was moved to the "CLOSED" position to start the engine, gradually move it to the "OPEN" position (Figure 18) as the engine warms up. If the engine has not started, repeat steps 1 through 6.

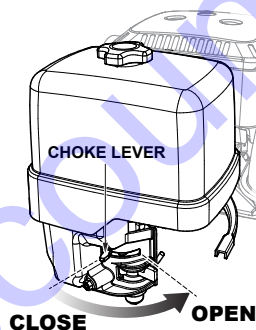


Figure 18. Choke Lever (Open)

9. Before the compactor is placed in to operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a lose component.
10. During operation, the hour tachometer displays "rotation number" (Figure 19).

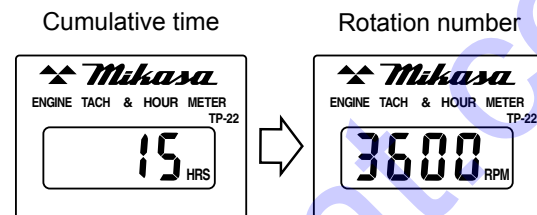


Figure 19. Hour Tachometer (Rotation Number)

## OPERATION

### CAUTION



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

1. Once the engine has started, move the engine throttle lever quickly to the **operation** position (Figure 20).

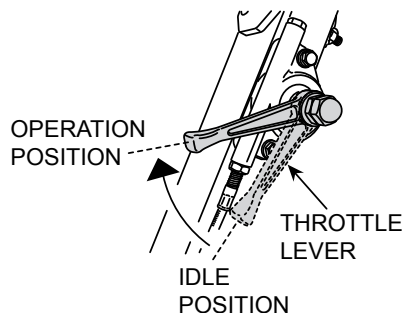


Figure 20. Throttle Lever (Operation Position)

### NOTICE

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

2. The direction control lever allows the machine to be moved either backward or forward (Figure 21). The direction control lever is normally in the forward position and the machine automatically moves forward. When pulled backward, the machine moves backward.

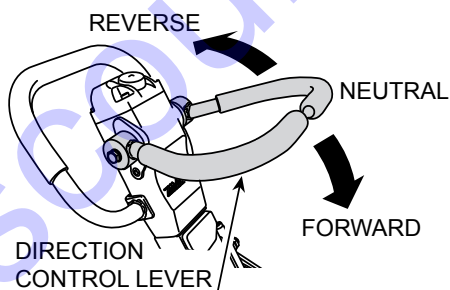


Figure 21. Direction Control Lever

3. When the direction control lever is the neutral position, the machine vibrates staying at the same location

### NOTICE

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

4. 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:
  - a. Check the bottom plate to see if clay or equivalent material has been lodged in the plate mechanism. If so, wash with water and remove.
  - b. Remember the compactor does not work as efficiently on clay or soils that have a high moisture content level.
  - c. If the soil has a high moisture level, dry soil to appropriate moisture content level or carry out compaction twice.

## STOPPING THE ENGINE

### Normal Shutdown

1. Move the throttle lever to the **idle** position (Figure 22) and run the engine for three minutes at low speed.

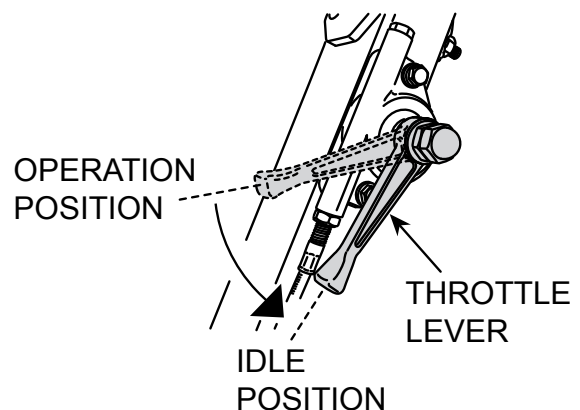
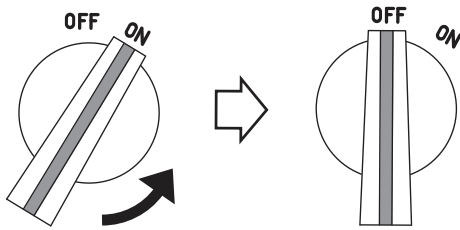


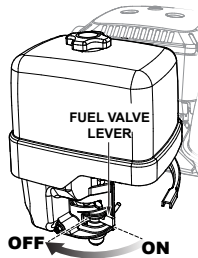
Figure 22. Throttle Lever (Idle)

- Place the engine **ON/OFF** switch (Figure 23) in the **OFF** position.



**Figure 23. Engine ON/OFF Switch (OFF Position)**

- Place the fuel shut-off lever (Figure 24) in the **OFF** position.



**Figure 24. Fuel Valve Lever (OFF)**

### Emergency Shutdown

- Move the throttle lever quickly to the **IDLE** position, and place the engine **ON/OFF** switch in the **OFF** position.

## GENERAL MAINTENANCE

General maintenance practices are crucial to the performance and longevity of your compactor. This equipment requires routine cleaning, inspection and lubrication. Reference Table 6 and Table 7 for scheduled engine and compactor maintenance.

The following procedures, devoted to maintenance, can prevent serious compactor damage or malfunctioning.

### NOTICE

Reference **HONDA** engine manual supplied with your compactor for more detailed engine maintenance and troubleshooting.

### CAUTION

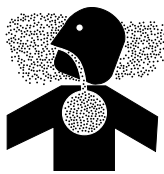


**ALWAYS** allow the engine to cool before servicing. **NEVER** attempt any maintenance work on a hot engine.

### CAUTION

**ALWAYS** disconnect the spark plug wire from the spark plug and secure away from the engine before performing maintenance or adjustments on the machine.

### WARNING



Some maintenance operations may require the engine to be run. Ensure that the maintenance area is well ventilated. Gasoline engine exhaust contains poisonous carbon monoxide gas that can cause unconsciousness and may result in **DEATH**.

## General Cleanliness

Clean the compactor daily. Remove all dust and debris buildup (mud, clay etc.). If the compactor is steam-cleaned, ensure that lubrication is accomplished **AFTER** steam cleaning.

### NOTICE

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

### NOTICE

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

# MAINTENANCE

## NOTICE

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

## NOTICE

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

To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with Table 6 and Table 7.

## ENGINE MAINTENANCE

Perform engine maintenance as listed in Table 6.

**Table 6. 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 and 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.

## Machine Inspection

Perform machine inspection as listed in Table 7.

Table 7. Machine Inspection		
Interval	Check	Solution
Daily Before Starting	Machine	Clean if necessary.
	Fuel Tank For Leaks	Repair fuel leaks.
	Fuel System for Leaks	Repair fuel leaks.
	Engine Oil	Add oil if necessary.
	Vibrator Oil	Add oil if necessary.
	Air Cleaner Element	Clean/Replace
	Cyclone Pre-Cleaner	Clean
	Guard Frame	Inspect/deformations
Every 20 Hours	Shock Absorber	Replace if damaged.
	Engine Oil	Replace only after first 20 hrs.
Every 100	Engine Oil	Change
	Air Cleaner Element	Clean/Replace
	Vibrator Oil	Check oil level. Check for leaks.
Every 200 hours	V-Belt	Inspect, replace if damaged or worn.
	Clutch	Inspect, replace if not working properly.
	Engine Bolts	Replace bolts if deformed or elongated.
Every 300 hours	Vibrator Oil	Change
	Fuel Filter	Change
Every 2 years	Fuel Lines	Replace


## Tightening Torque

Reference Table 8 below (Tightening Torque ), for retightening of nuts and bolts.

Table 8. 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							
Bolt threads used with this machine are all right handed								
Material and quality of material is marked on each bolt, and screw.								


## Engine Air Cleaner

**! DANGER**



**DO NOT** use gasoline or low flash point solvents for cleaning the air cleaner. The possibility exists of fire or explosion which can cause damage to the equipment and severe bodily harm or even **DEATH!**

**! CAUTION**



Wear protective equipment such as approved safety glasses or face shields and dust masks or respirators when cleaning air filters with compressed air.

**NOTICE**

Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.

The Honda GX160UT2SCM engine is equipped with a replaceable, high-density paper air cleaner element. See (Figure 25) for air cleaner components.

1. Remove the air cleaner cover and foam filter element.
2. Tap the paper filter element 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 inside out. **NEVER** brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.

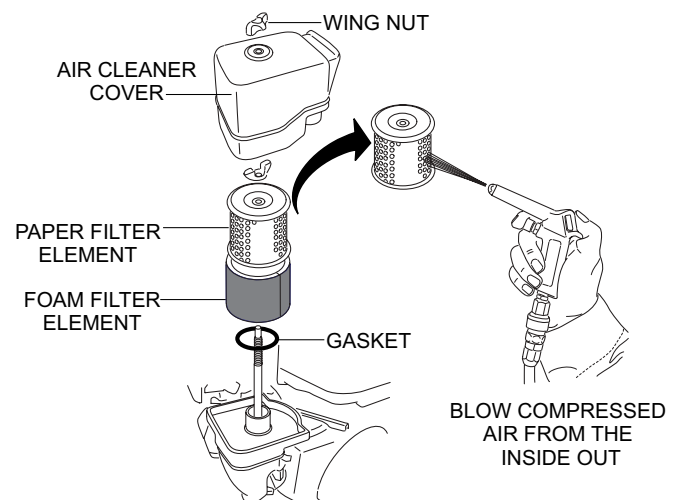


Figure 25. Engine Air Filter



- 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.
- Blow compressed air (Figure 26) through the air cleaner cover as shown in (Figure 25). Clean inside of air filter cover with warm, soapy water or nonflammable solvent. Rinse and dry thoroughly.

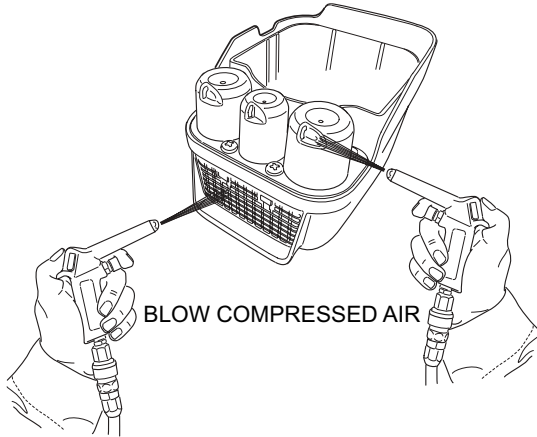


Figure 26. Engine Air Filter Cover

### NOTICE

Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.

## ENGINE OIL

### NOTICE

Drain the engine oil when the oil is warm.

- Remove the oil drain bolt (Figure 27). and sealing washer and allow the oil to drain into a suitable container.
- Replace engine oil with recommended type oil as listed in Table 5. For engine oil capacity, see Table 2 (Engine Specifications). **DO NOT** overfill.
- Reinstall drain bolt with sealing washer and tighten securely.

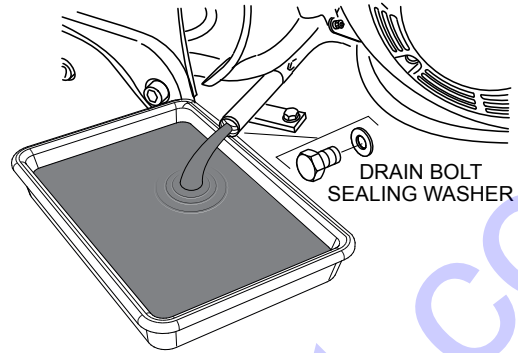


Figure 27. Draining Engine Oil

## HYDRAULIC OIL

- With the handle in vertical position, remove the plug cap from the hydraulic pump (Figure 28).

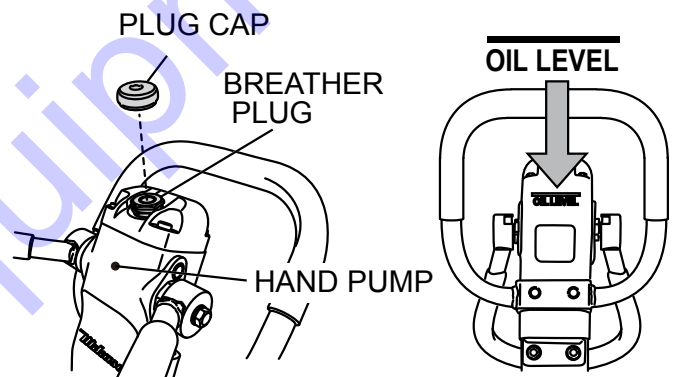


Figure 28. Removing Plug/Breather Cap

- Remove the breather plug with a 24 mm wrench at the top of the hydraulic pump.
- Remove the hydraulic hose connected to the cylinder on the vibrator side (Figure 29).

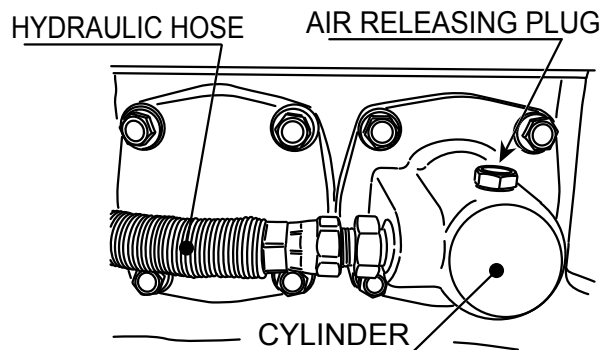


Figure 29. Removing Hydraulic Hose

4. Drain the hydraulic oil from the pump.
5. After the oil is drained, attach the hydraulic hose again to the cylinder on the vibrator side.
6. Pour hydraulic oil (300 cc) to the hydraulic pump breather plug attachment hole (Figure 28).
7. Remove the air releasing plug of vibrator cylinder. Oil will then come out from the air releasing plug. After air bubbles stop coming out, reattach the plug. Tighten securely (Figure 29).
8. In case the air bleeding is insufficient, repeat step 7.
9. Attach the hydraulic pump breather plug and put on the plug cap. After making sure the hydraulic oil in the pump is at OIL LEVEL, attach the breather plug.

## CAUTION

**DO NOT** exceed OIL LEVEL of hydraulic oil. If the level is higher, oil will burst out from the breather plug.

## SPARK PLUG

### NOTICE

**NEVER** use a spark plug of incorrect heat range.

1. Remove and clean spark plug (Figure 30) with a wire brush if it is to be reused. Discard spark plug if the insulator is cracked or chipped.
2. Using a feeler gauge adjust spark plug gap to 0.028 ~0.031 inch (0.7~0.8 mm).
3. Thread spark plug into cylinder hole by hand to prevent cross-threading, then tighten securely.

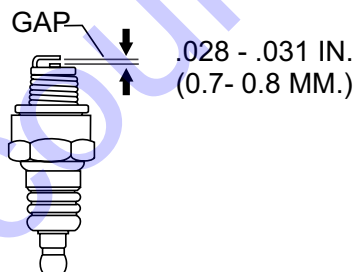


Figure 30. Spark Plug Gap

## V-BELT

Visually examine the V-belt (Figure 31) and determine if it is full of tiny cracks, frayed, has pieces of rubber missing, is peeling or otherwise damaged.

Also, examine the belt and determine if it is **oil soaked** or **"glazed"** (hard shiny appearance on the sides of the belt). Either of these two conditions can cause the belt to run hot, which can weaken it and increase the danger of it breaking.

If the V-belt exhibits any of the above wear conditions replace the V-belt immediately.

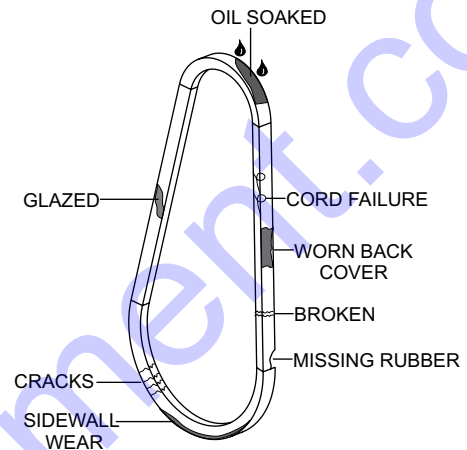


Figure 31. V-Belt Inspection

## SPARK ARRESTER CLEANING

Clean the spark arrester every year or 100 hours.

1. Remove the 4 mm screws (3) from the exhaust deflector, then remove the deflector (Figure 32).
2. Remove the 5 mm screws (4) from the muffler protector, then remove the muffler protector.
3. Remove the 4 mm screws from the spark arrester, then remove the spark arrester.

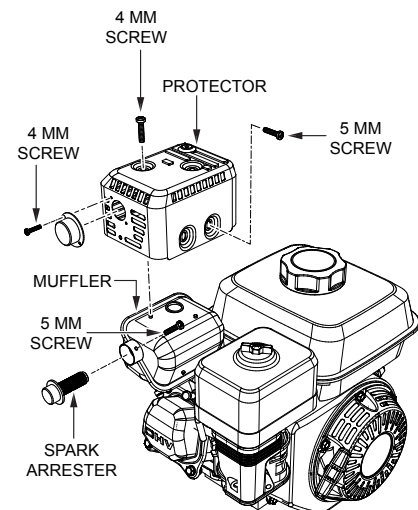
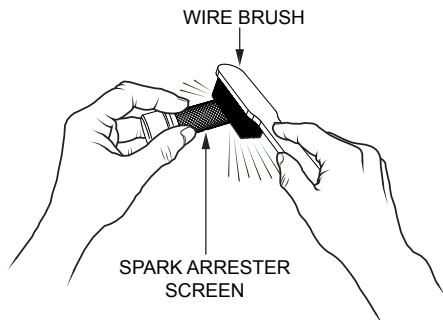


Figure 32. Spark Arrester Removal

- Carefully remove carbon deposits from the spark arrester screen (Figure 33) with a wire brush.



**Figure 33. Cleaning The Spark Arrester**

- If the spark arrester is damaged and has breaks or holes, replace with a new one.
- Reinstall the spark arrester and muffler protector in reverse order of disassembly.

### STORAGE

- Wash off dirt and soil from every part with water. While washing, be careful not to let the water splash on the electric components such as the engine muffler.
- Cover the machine to prevent dust and dirt buildup.
- Store the machine in a dry area away from direct sunlight.
- Do not leave the machine outdoors. Keep it indoors.
- When not used for a long period of time, drain the fuel from the fuel tank.
- When the machine is used after a long storage period, check the level of engine oil before using.

## TROUBLESHOOTING (COMPACTOR)

Troubleshooting (Compactor)		
Symptom	Possible Problem	Solution
Travel speed low and vibration weak.	Clutch slips?	Adjust or replace clutch.
	V-belt slips?	Adjust or replace V-belt.
	Excessive oil in vibrator?	Fill to correct level.
	Trouble in vibrator internals?	Check vibrator assembly for any worn or defective parts, replace any defective parts.
	Aeration in hydraulic oil for for travel reversing system?	Purge air in hydraulic oil. (Bleed plug)
	Engine speed incorrect?	Set engine speed to correct RPM.
Travels forward or backward but unable to switch direction.	Hydraulic pump problems?	Check hydraulic pump.
	Direction Control Lever installation wrong?	Correct installation of IDirection Control Lever.
	Broken or defective oil hose?	Replace oil hose.
	Aeration in hydraulic oil?	Purge air in hydraulic oil. (Bleed plug)
	Excessive oil in reversing system?	Fill to correct level.
	Hydraulic pump clogged with trash?	Clean valve inside hydraulic pump.
	Cylinder piston bearing failure?	Check piston bearing in cylinder for leakage.
Does not travel in forward or reverse	V-belt disengaged or slips?	Engage V-belt, adjust or replace.
	Clutch slips?	Adjust clutch, replace if necessary.
	Vibrator locks?	Check vibrator and correct problem.
	Cylinder piston bearing failure?	Check piston bearing in cylinder for leakage at USH packing.
Direction Control Lever operating resistance for reverse is high.	Piston inside hydraulic pump not moving smoothly?	Adjust or replace.
	Vibrator cylinder piston does not move smoothly	Adjust or replace.

# TROUBLESHOOTING (ENGINE)

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

## TROUBLESHOOTING (ENGINE)

Troubleshooting (Engine) - continued		
Symptom	Possible Problem	Solution
Weak in power, compression is proper and does not misfire.	Air cleaner dirty?	Clean or replace air cleaner.
	Improper level in carburetor?	Check float adjustment, rebuild carburetor.
	Defective spark plug?	Clean or replace spark plug.
	Improper spark plug?	Set to proper gap.
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	Wrong type of fuel?	Replace with correct type of fuel.
	Cooling fins dirty?	Clean cooling fins.
	Intake air restricted?	Clear intake of dirt and debris. Replace air cleaner elements as necessary.
	Oil level too low or too high?	Adjust oil to proper level.
Rotational speed fluctuates.	Governor adjusted incorrectly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunctions. (if applicable)	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.
Starter malfunctions.	Loose, damaged wiring?	Ensure tight, clean connections on battery and starter.
	Battery insufficiently charged?	Recharge or replace battery.
	Starter damaged or internally shorted?	Replace starter.
Burns too much fuel.	Over-accumulation of exhaust products?	Check and clean valves. Check muffler and replace if necessary.
	Wrong spark plug?	Replace spark plug with manufacturer's suggested type.
Exhaust color is continuously "white".	Lubricating oil is wrong viscosity?	Replace lubricating oil with correct viscosity.
	Worn rings?	Replace rings.
Exhaust color is continuously "black".	Air cleaner clogged?	Clean or replace air cleaner.
	Choke valve set to incorrect position?	Adjust choke valve to correct position.
	Carburetor defective, seal on carburetor broken?	Replace carburetor or seal.
	Poor carburetor adjustment, engine runs too rich?	Adjust carburetor.
Will not start, no power with key "ON". (if applicable)	ON/OFF device not activated ON?	Turn on ON/OFF device.
	Battery disconnected or discharged?	Check cable connections. Charge or replace battery
	Ignition switch/wiring defective?	Replace ignition switch. Check wiring.

# 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

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.

## SUGGESTED SPARE PARTS

### MVH128GH PLATE COMPACTOR

1 to 3 units

Qty.	P/N	Description
4.....	472471010.....	SHOCK ABSORBER
2.....	070100332.....	V-BELT
1.....	956100078.....	THROTTLE WIRE

#### NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

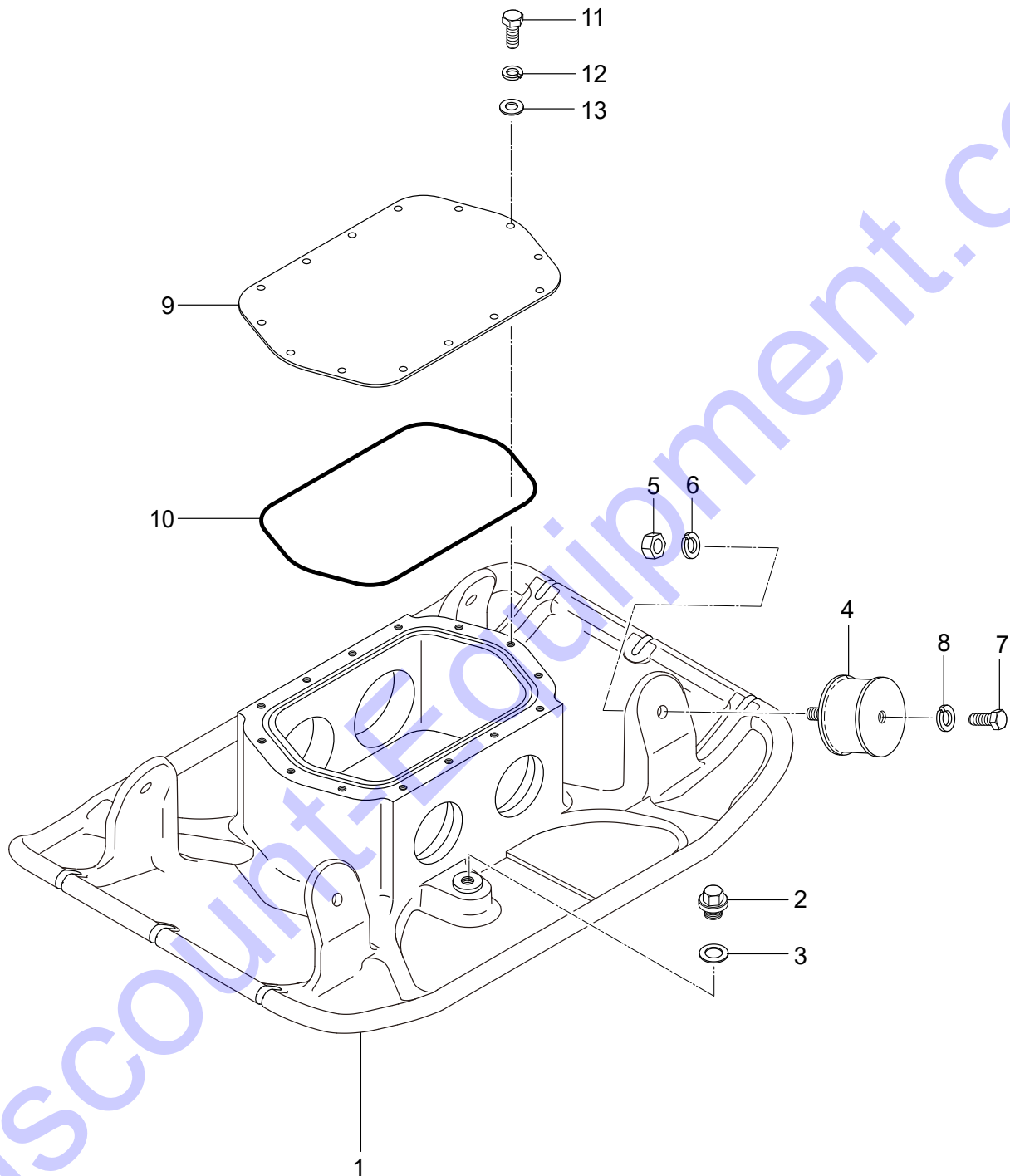
### HONDA GX160UT2SCM GASOLINE ENGINE

1 to 3 units

Qty.	P/N	Description
3.....	0650140480.....	SPARK PLUG, (BPR6ES)
1.....	28462ZH8003.....	ROPE, RECOIL STARTER
3.....	17210Z0V781.....	ELEMENT
3.....	17218Z0V780.....	FILTER, OUTER
1.....	17620Z4H900.....	CAP COMPLETE, FUEL TANK
1.....	17672Z4H000.....	FUEL FILTER, FUEL TANK



# VIBRATING PLATE ASSY.



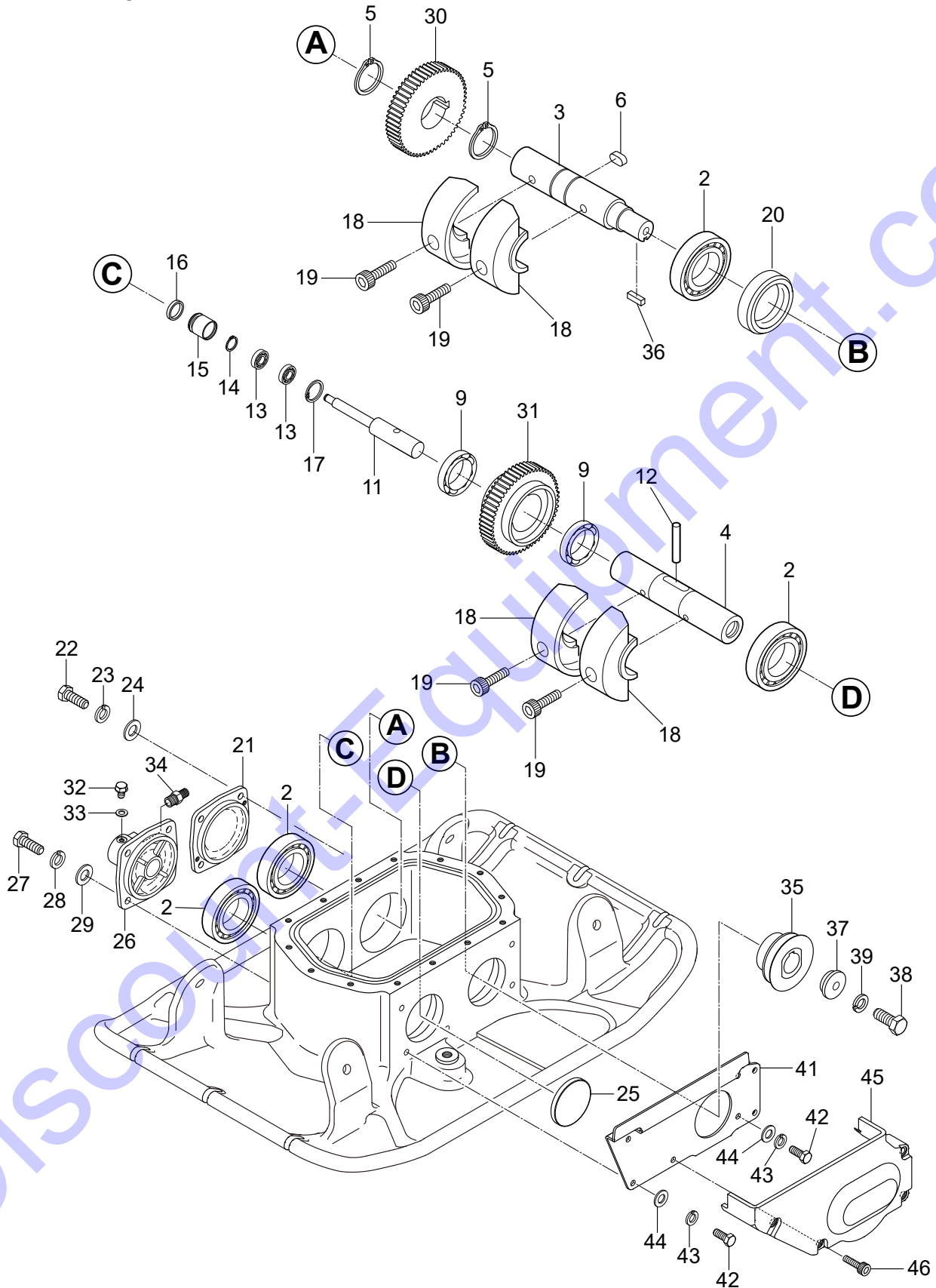
**VIBRATING PLATE ASSY.**

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<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	472122280	VIBRATING PLATE	1	
2	953405270	PLUG	1	
3	953405260	PACKING 1/4"	1	
4	472471010	SHOCK ABSORBER	4	
5	020312100	NUT, M12	4	
6	030212300	WASHER, LOCK M12	4	
7	001221230	BOLT, 12X30	4	
8	030212300	WASHER, LOCK M12	4	
9	471354550	COVER, VIBRATOR	1	
10	050710080	O-RING .....	1	REPLACES P/N 050710160
11	001220820	BOLT, 8X20	14	
12	030208200	WASHER, LOCK M8	14	
13	031108160	WASHER, FLAT M8	14	

Discount-Equipment.com

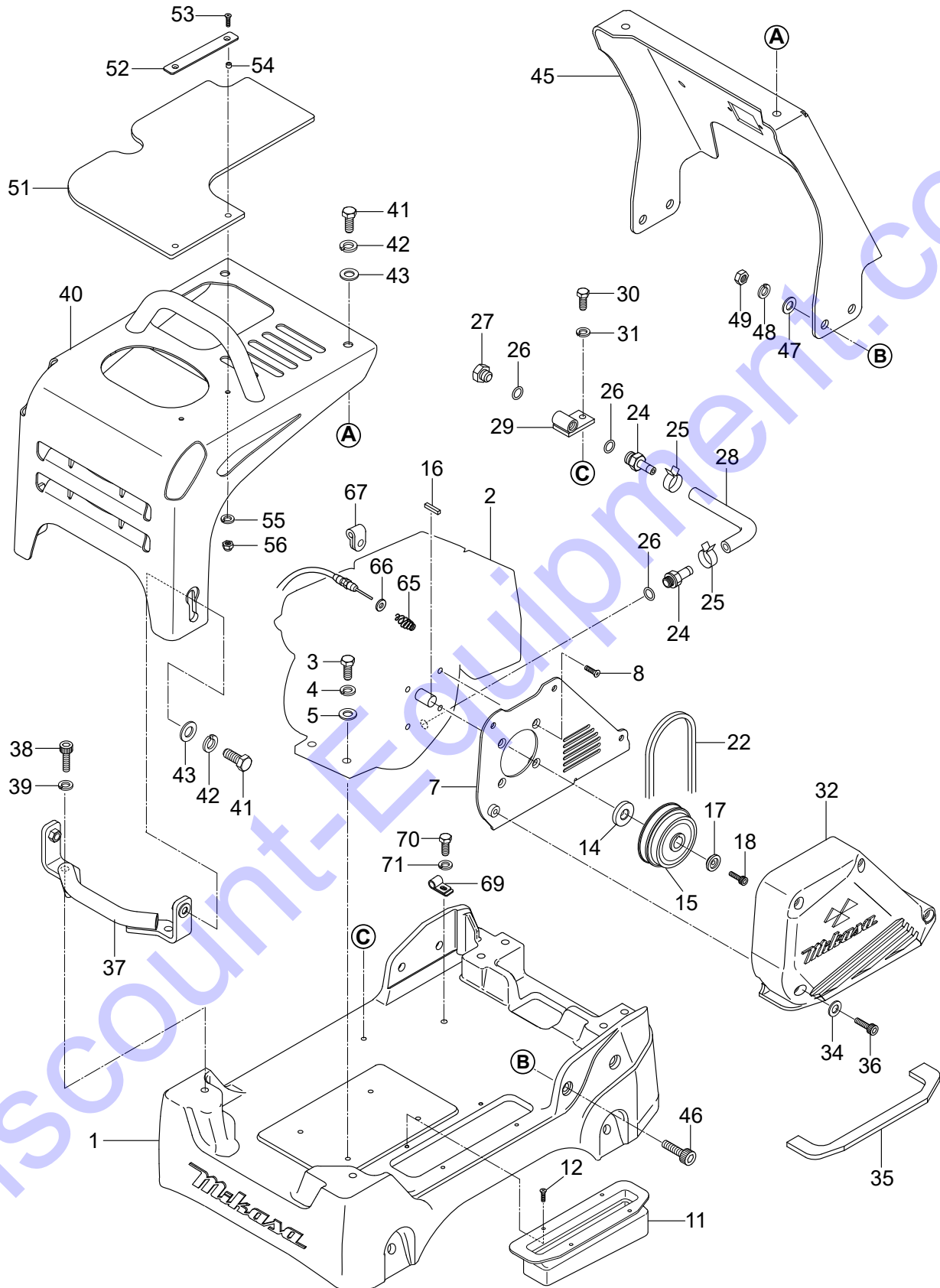
# VIBRATOR ASSY.



## VIBRATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	040306307	BEARING.....	4.....	REPLACES P/N 040406307
3	472355260	ROTARY SHAFT, DRIVE	1	
4	472355270	ROTARY SHAFT, DRIVEN	1	
5	080200350	STOP RING	2	
6	951405460	KEY, 10X8X19	1	
9	040306907	BEARING	2	
11	459346230	PISTON ROD	1	
12	025508050	PIN	1	
13	042006000	BEARING.....	2.....	REPLACES P/N 042506000
14	0080000010	STOP RING .....	1.....	REPLACES P/N 080200100
15	455435051	PISTON	1	
16	455010070	COPPER PACKING	1	
17	080100260	STOP RING	1	
18	472471020	ECCENTRIC ROTATOR	4	
19	009120306	SOCKET HEAD BOLT, 10X30	4	
20	060202060	OIL SEAL	1	
21	471354540	BEARING COVER	1	
22	001220825	BOLT, 8X25	4	
23	030208200	WASHER, LOCK M8	4	
24	031108160	WASHER, FLAT M8	4	
25	953010060	SEAL CAP	1	
26	471219700	CYLINDER	1	
27	001220825	BOLT, 8X25	4	
28	030208200	WASHER, LOCK M8	4	
29	031108160	WASHER, FLAT M8	4	
30	471354810	GEAR, DRIVE	1	
31	458342590	GEAR, DRIVEN	1	
32	001220812	BOLT, 8X12	1	
33	953404600	COPPER PACKING	1	
34	954010020	CONNECTOR, 1/4"	1	
35	472355210	PULLEY	1	
36	951400990	KEY, 7X7X20	1	
37	471470140	WASHER, PULLEY	1	
38	001220830	BOLT, 8X30	1	
39	030208200	WASHER, LOCK M8	1	
41	472355220	GUIDE, BELT COVER	1	
42	001220820	BOLT, 8X20	3	
43	030208200	WASHER, LOCK M8	3	
44	031108160	WASHER, FLAT M8	3	
45	472219870	BELT COVER, LOWER	1	
46	001520851	SOCKET HEAD BOLT, 8X55	4	

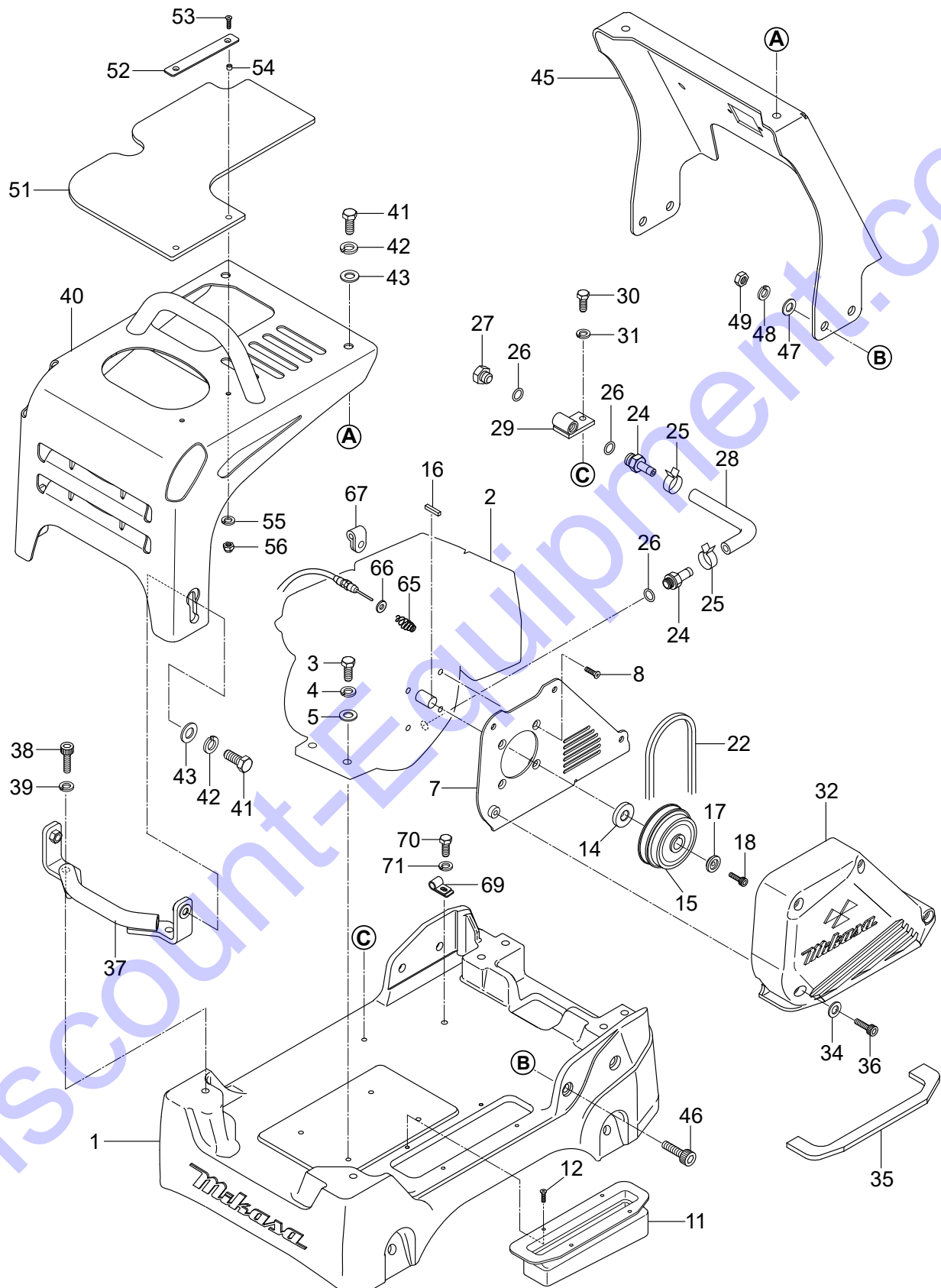
# BASE AND ENGINE ASSY.



## BASE AND ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	472122290	BASE	1	
2	912216023	ENGINE, GX160UT2SCM	1	
3	001220840	BOLT, 8X40	4	
4	030208200	WASHER, LOCK M8	4	
5	031108160	WASHER, FLAT M8	4	
7	472355250	BELT COVER, (IN)	1	
8	009120408	SUNK HEAD BOLT, 8X20	4	
11	472219850	DUST COVER	1	
12	092006010	FLAT HEAD SCREW, 6X10	4	
14	472471230	CLUTCH, SPACER	1	
15	458337770	CLUTCH ASSY.	1	
16	0320050150	KEY	1	
17	471470090	CLUTCH, WASHER	1	
18	001520825	SOCKET HEAD BOLT, 8X25	1	
22	070100332	V-BELT	1	
24	15550ZK8P90	DRAIN JOINT	2	
25	954010070	HOSE BAND	2	
26	90601ZE1000	WASHER, DRAIN PLUG	3	
27	90131ZE1000	BOLT, DRAIN PLUG	1	
28	15552ZB9000	DRAIN HOSE	1	
29	459462050	JOINT	1	
30	001220820	BOLT, 8X20	1	
31	030208200	WASHER, LOCK M8	1	
32	472122390	BELT COVER (OUT)		
34	033910220	WASHER, 8.4X15.5X1.6	4	
35	472355230	DUST SPONGE (OUT)	1	
36	001520552	SOCKET HEAD BOLT, 8X60	4	
37	472355240	FRONT BUMPER	1	
38	001521235	SOCKET HEAD BOLT, 12X35	2	
39	030212300	WASHER, LOCK M12	2	
40	472122400	FRONT COVER	1	
41	001221235	BOLT, 12X35	4	
42	030212300	WASHER, LOCK M12	4	
43	031112230	WASHER, FLAT M12	4	
45	472219860	CENTER COVER	1	
46	001521030	SOCKET HEAD BOLT, 10X30	4	
47	031110160	WASHER, FLAT M10	4	
48	030210250	WASHER, LOCK M10	4	
49	020310080	NUT M10	4	

# BASE AND ENGINE ASSY. CONT'D.

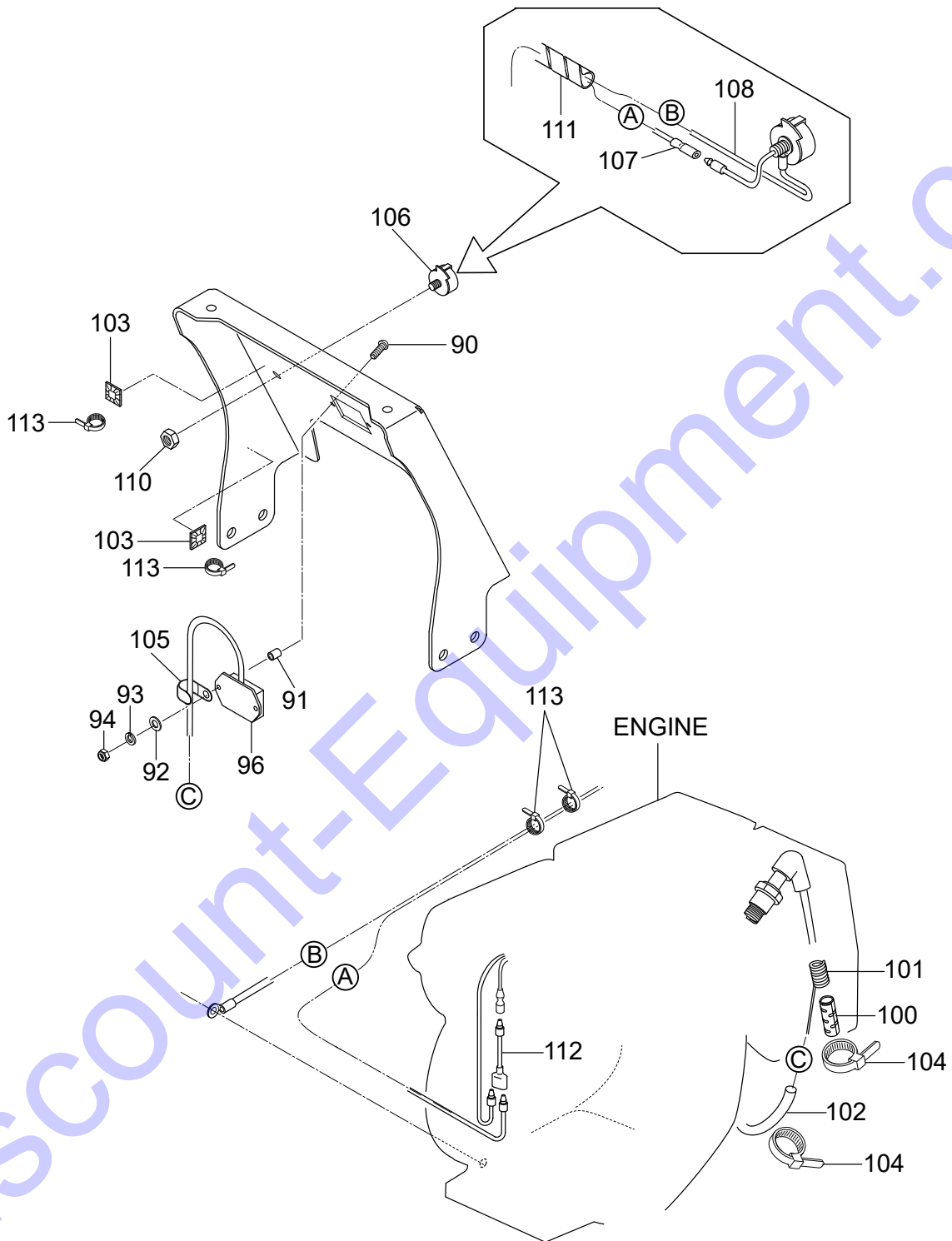


## BASE AND ENGINE ASSY. CONT'D.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
51	472471040	RUBBER COVER, UPPER	1	
52	472471050	STOPPER, COVER	1	
53	009120424	SOCKET HEAD BOLT, 6X25	2	
54	617465130	COLLAR	2	
55	030206150	WASHER, LOCK M6	2	
56	022710607	NYLON NUT M6	2	
65	371467760	RETURN SPRING	1	
66	031105080	WASHER, FLAT M5	1	
67	2067550101	CLAMP, COMPLETE	1	
69	959407260	CLIP D6	1	
70	001221015	BOLT, 10X15	1	
71	030210250	WASHER, LOCK M10	1	



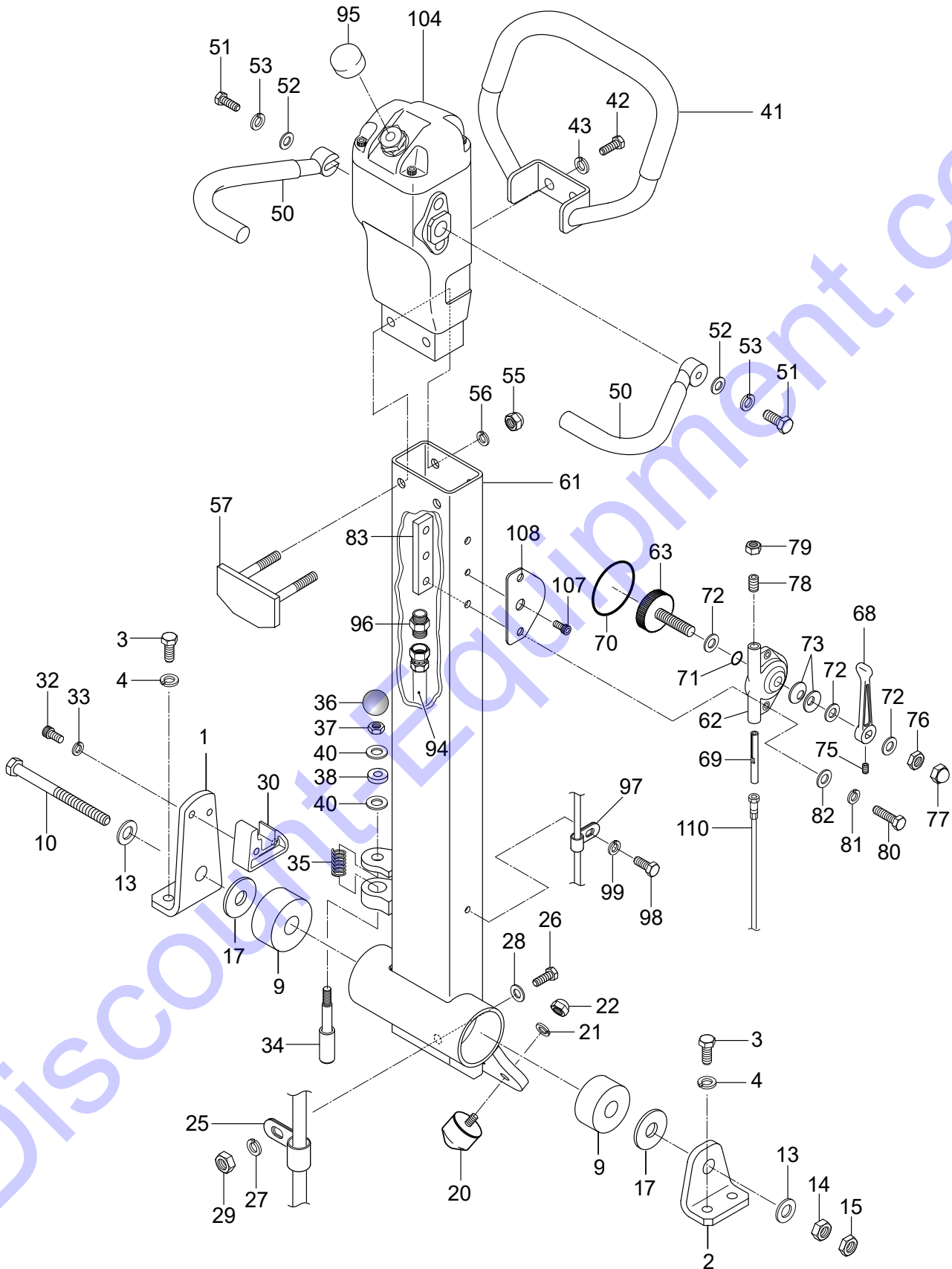
# ELECTRIC DEVICE ASSY.



## ELECTRIC DEVICE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
90	009110072	PAN HEAD SCREW, 5X35	2	
91	952407930	COLLAR	2	
92	031105080	WASHER, FLAT M5	2	
93	030205130	WASHER, LOCK M5	2	
94	022710506	NYLON NUT M5	2	
96	955010311	TACHO/HOUR METER	1	
100	955010307	CLIP BELT	1	
101	955010317	CURL CORD	1	
102	959026836	RUBBER TUBE	1	
103	955407970	WIRING FIXED BASE	2	
104	506010070	CLAMP	2	
105	2067550101	CLAMP COMPLETE	1	
106	955301010	STOP SWITCH, ENGINE	1	
107	468467570	READ CORD	1	
108	467466980	LEAD WIRE (SW-GROUND)	1	
110	020308060	NUT M8	1	
111	959021827	SPIRAL TUBE	1	
112	515450380	WIRE HARNESS	1	
113	506010070	CLAMP	4	

# OPERATION ASSY.



## OPERATION ASSY.

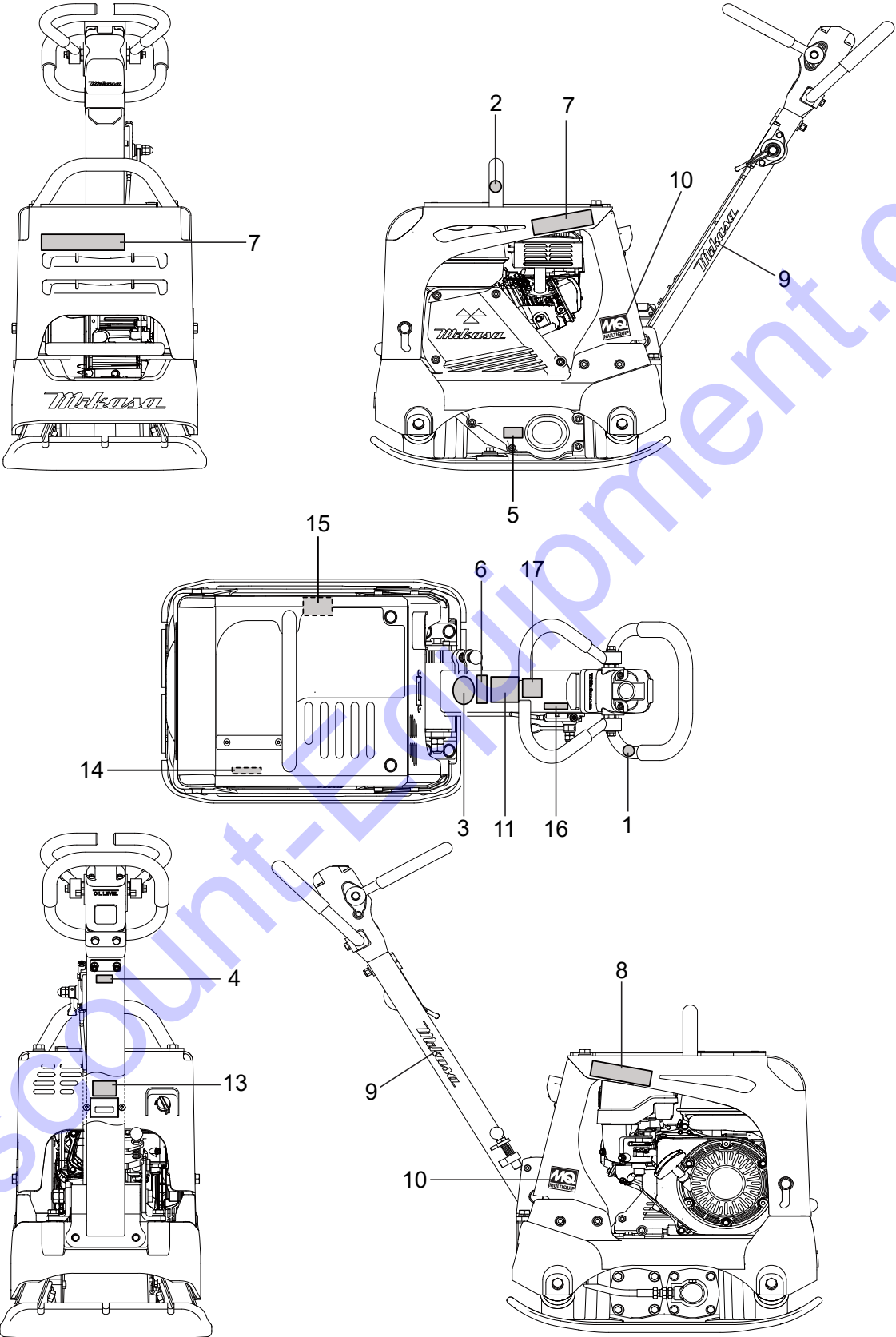
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	471354640	HANDLE BRACKET (R)	1	
2	459338030	HANDLE BRACKET (L)	1	
3	001221230	BOLT, 12X30	4	
4	030212300	WASHER, LOCK M12	4	
9	470468900	CUSHION RUBBER	2	
10	001221680	BOLT, 16X200	1	
13	031116260	WASHER, FLAT M16	2	
14	020316130	NUT M16	1	
15	020416100	NUT M16	1	
17	952409690	WASHER 17X45X4.5	2	
20	939010490	STOPPER RUBBER	2	
21	030208200	WASHER, LOCK M8	2	
22	022130806	CAP NUT M8	2	
25	959408930	CLIP 15 (M6)	1	
26	001220625	BOLT, 6X25	1	
27	030206150	WASHER, LOCK M6	1	
28	031106100	WASHER, FLAT M6	1	
29	020306050	NUT M6	1	
30	471354710	HANDLE ROCK STOPPER	1	
32	001520825	SOCKET HEAD BOLT 8X25	2	
33	030208200	WASHER, LOCK M8	2	
34	471470170	STOPPER, HANDLE	1	
35	471470180	SPRING, STOPPER	1	
36	959409700	BALL GRIP	1	
37	020410060	NUT M10	1	
38	456449980	RUBBER PACKING	1	
40	031110160	WASHER, FLAT M10	2	
41	458214400	HANDLE GRIP	1	
42	001220820	BOLT, 8X20	2	
43	030208200	WASHER, LOCK M8	2	
50	471354800	LEVER, TRAVEL	2	
52	001220830	BOLT, 8X30	2	
53	031108160	WASHER, FLAT M8	2	
54	030208200	WASHER, LOCK M8	2	
55	022710809	NYLON NUT M8	2	
56	030208200	WASHER, LOCK M8	2	
57	458337480	PUMP HOLDER	1	



**OPERATION ASSY. CONT'D.**

<b>NO.</b>	<b>PART NO.</b>	<b>PART NAME</b>	<b>QTY.</b>	<b>REMARKS</b>
61	471122170	HANDLE BAR	1	
62	362341550	THROTTLE BODY	1	
63	362456521	THROTTLE GEAR	1	
68	362455630	THROTTLE LEVER	1	
69	362455620	SLIDER	1	
70	050100450	O-RING	1	
71	050200100	O-RING	1	
72	031110160	WASHER, FLAT M10	3	
73	032110180	CONICAL SPRING WASHER M10	2	
75	096206006	SOCKET HEAD SCREW 6X6	1	
76	020410060	NUT, M10	1	
77	022131008	CAP, NUT M10	1	
78	096208020	SOCKET HEAD SCREW 8X20	1	
79	020408050	NUT, M8	1	
80	001220625	BOLT 6X25	2	
81	030206150	WASHER, LOCK M6	2	
82	031106100	WASHER, FLAT M6	2	
83	463455960	THROTTLE NUT	1	
94	459452060	OIL HOSE	1	
95	458451630	BREATHER CAP	1	
96	954003150	MALE CONNECTOR, O-RING 1/4"	1	
97	2067550101	CLAMP COMPLETE	1	
98	001220615	BOLT 6X15	1	
99	030206150	WASHER, LOCK M6	1	
104	459219610	HAND PUMP	1	
107	001520510	SOCKET HEAD BOLT 5X10	1	
108	463455950	SPACER, THROTTLE	1	
110	956100078	THROTTLE WIRE	1	

# NAMEPLATE AND DECALS ASSY.

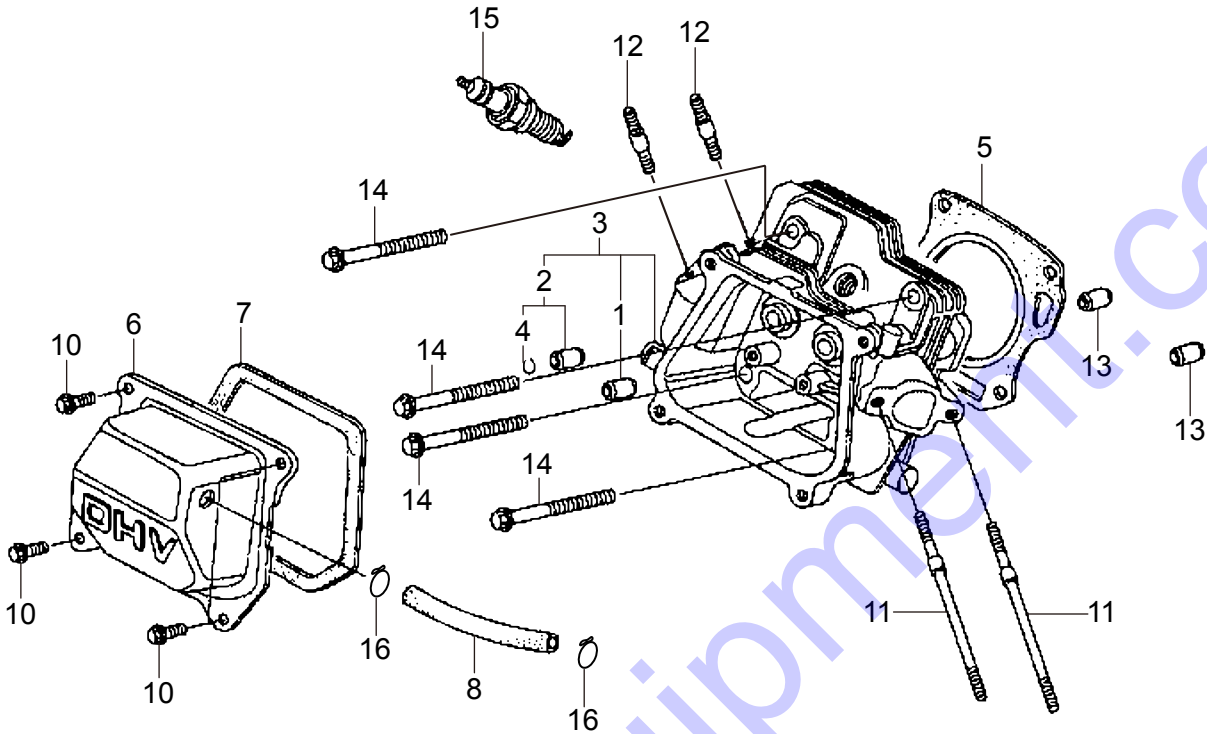


## NAMEPLATE AND DECALS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	920900090	DECAL, DO NOT LIFT .....	1.....	REPLACES P/N 920214730
2	920214740	DECAL, LIFTING POSITION	1	
3	920203330	EAR PROTECTION LABEL	1	
4	920211090	DECAL, SHELL TELLUS OIL 32	1	
5	920201950	DECAL, OIL SAE 10W-30	1	
6	920214100	DECAL, E/G FIRE WARNING	1	
7	920221730	DECAL, MODEL (R, OR)	2	
8	920221740	DECAL, MODEL (L, OR)	1	
9	920217130	DECAL, MIKASA MARK	2	
10	920220220	DECAL, MQ MARK	2	
11	920218390	DECAL, CAUTION	1	
13	920218130	DECAL, E/G RPM 3600	1	
14	920208350	DECAL, V-BELT RPF3330	1	
15	920221750	PLATE, SERIAL NO./MQ	1	
16	920211690	DECAL, LEVER OPERATION	1	
17	920220810	DECAL, CAUTION, LEVER	1	



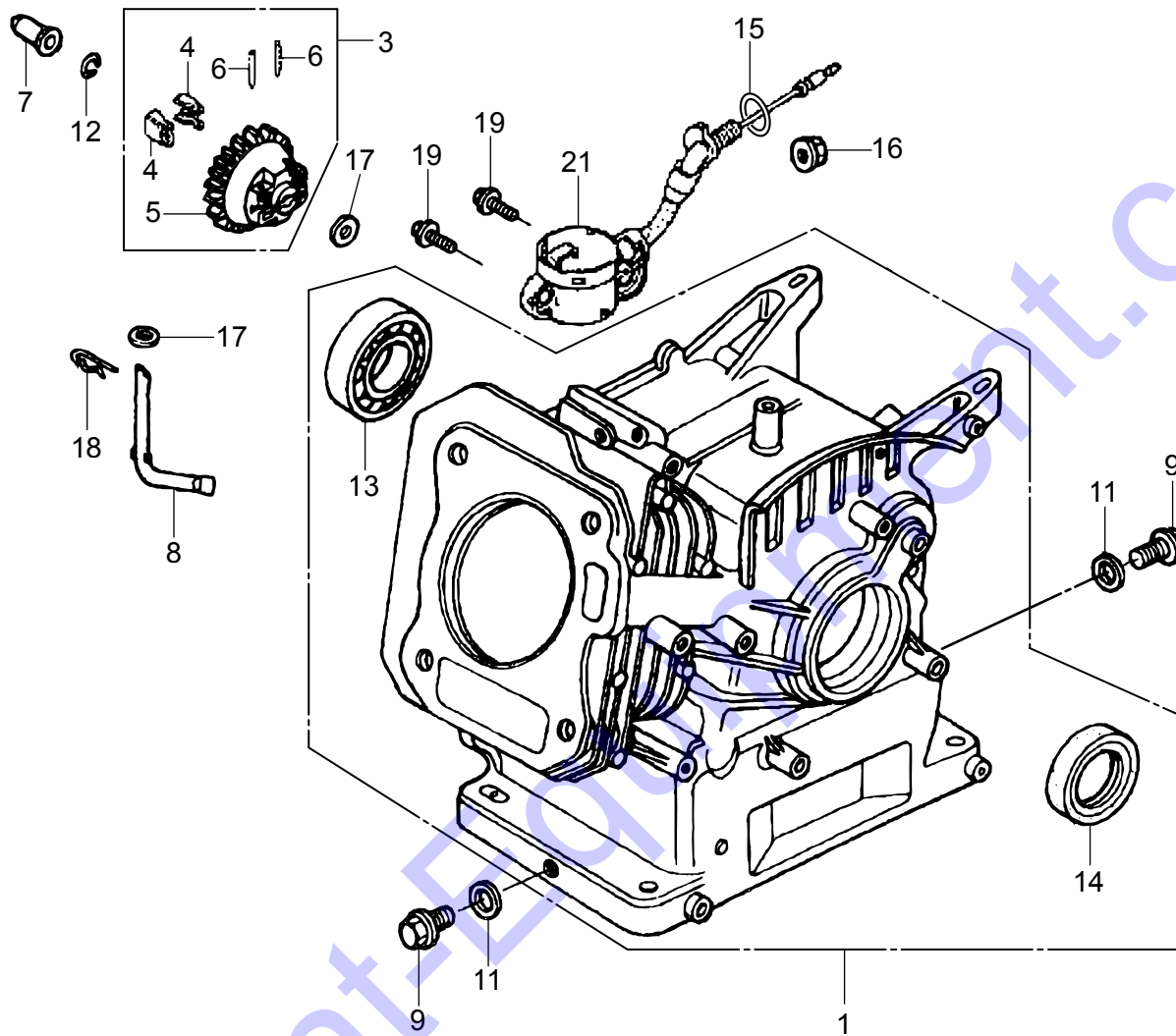
**HONDA GX160UT2SCM ENG. — CYLINDER HEAD ASSY.**



## HONDA GX160UT2SCM ENG. — CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1%	12204ZE1306	GUIDE, INLET VALVE (O.S.)	1	
2%	12205ZE1315	GUIDE, EXHAUST VALVE (O. S.).....	1.....	INCLUDES ITEM W/\$
3	12210Z4M405	HEAD COMPLETE, CYLINDER.....	1.....	INCLUDES ITEMS W/%
4\$%	12216ZE5300	CLIP, VALVE GUIDE	1	
5	12251ZL0003	GASKET, CYLINDER HEAD	1	
6	12310Z4M840	COVER COMPLETE, HEAD	1	
7	12391ZE1000	PACKING, HEAD COVER	1	
8	15721ZE1840	TUBE, BREATHER	1	
10	90013883000	FLANGE BOLT 6X12	4	
11	90043ZE1020	STUD BOLT 6X112	2	
12	90047ZE1000	STUD BOLT 8X32	2	
13	9430110160	KNOCK PIN 10X16	2	
14	957010806000	BOLT, FLANGE 8X60	4	
15	0650140480	SPARK PLUG, BPR6ES	1	
16	9500280000	CLIP, TUBE	2	

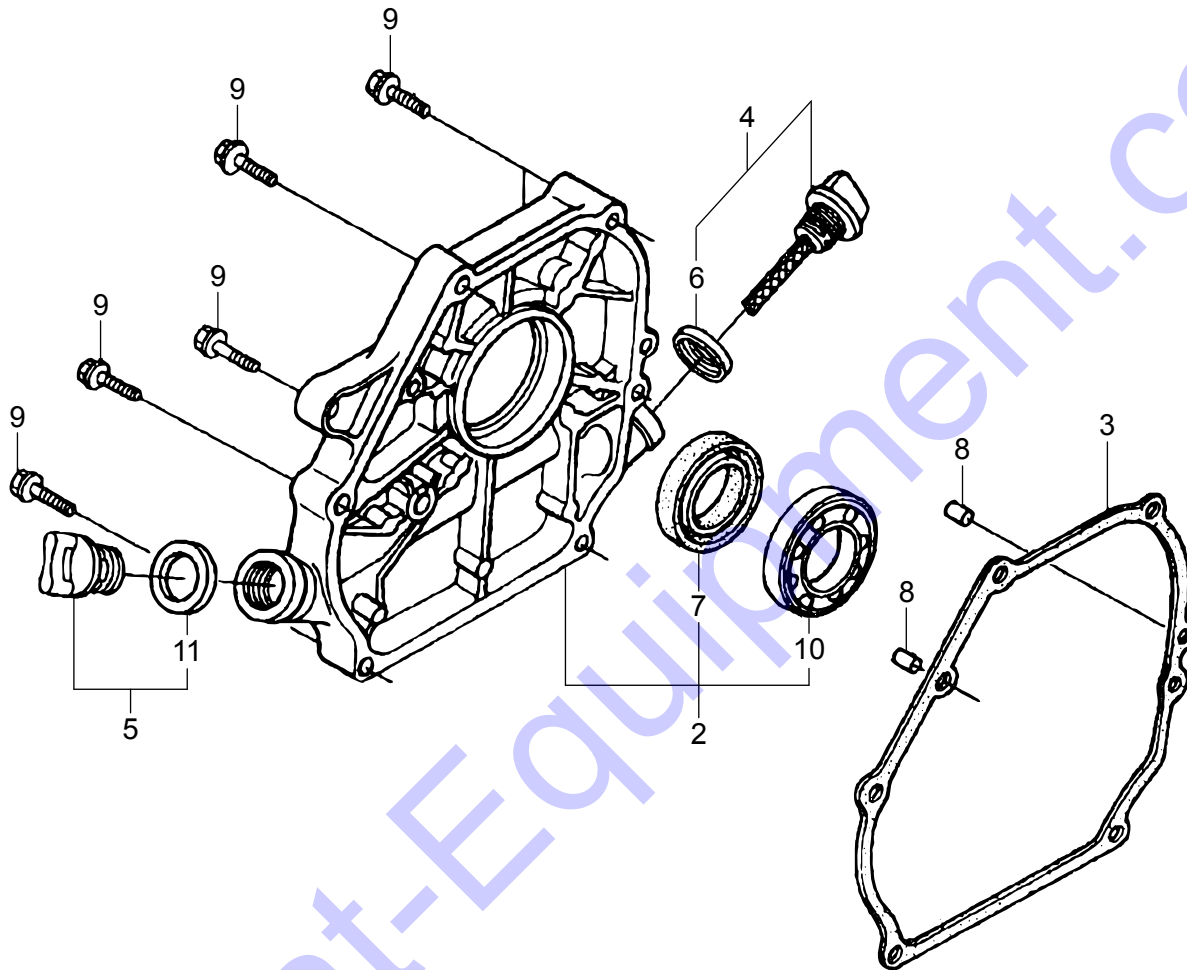
# HONDA GX160UT2SCM ENG. — CYLINDER BARREL ASSY.



## HONDA GX160UT2SCM ENG. — CYLINDER BARREL ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12000Z4M416	BARREL, ASSY. CYLINDER (OIL ALERT).....	1.....	INCLUDES ITEMS W/\$
3	16510Z4M000	GOVERNOR ASSY.....	1.....	INCLUDES ITEMS W/%
4%	16511Z4M000	WEIGHT, GOVERNOR	2	
5%	16512Z4M000	HOLDER, GOVERNOR WEIGHT	1	
6%	16513ZE1000	PIN, GOVERNOR WEIGHT	2	
7	16531Z4M000	SLIDER, GOVERNOR	1	
8	16541Z4M000	SHAFT, GOVERNOR ARM	1	
9	90131ZE1000	BOLT, DRAIN PLUG	2	
11	90601ZE1000	WASHER, DRAIN PLUG	2	
12	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
13\$	91001ZF1003	BALL BEARING	1	
14\$	91201Z0T801	OIL SEAL 25X41X6	1	
15	91353671003	O-RING 14MM.....	1.....	REPLACES P/N 91353671004
16	9405010000	FLANGE NUT M10	1	
17	9410106800	WASHER, FLAT 6MM	2	
18	9425108000	LOCK PIN 8MM	1	
19	957010601200	FLANGE BOLT 6X12	2	
21	35480Z0T003	SWITCH ASSY., OIL LEVEL	1	

# HONDA GX160UT2SCM ENG. — CRANKCASE COVER ASSY.

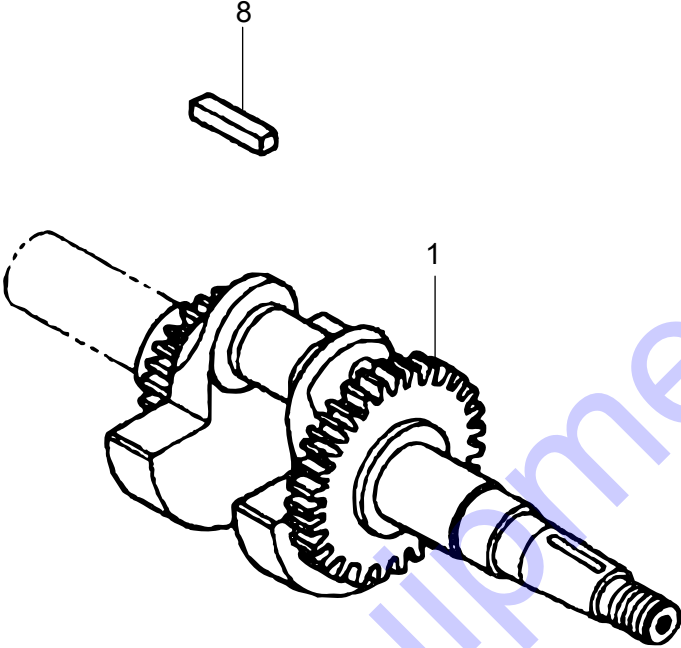


## HONDA GX160UT2SCM ENG. — CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	11300Z4M630	COVER, ASSY., CRANKCASE.....	1.....	INCLUDES ITEMS W/#
3	11381ZH8801	GASKET, CRANKCASE	1	
4	15600Z0T810	CAP ASSY., OIL FILLER .....	1.....	INCLUDES ITEMS W/\$
5	15600Z0T820	CAP ASSY., OIL FILLER .....	1.....	INCLUDES ITEMS W/%
6\$	15625Z0T800	PACKING, OIL FILLER CAP	1	
7#	91201Z0T801	OIL SEAL 25X41X6	1	
8	9430108140	KNOCK PIN 8X14	2	
9	957010803200	FLANGE BOLT 8X32	6	
10#	961006205010	BALL BEARING.....	1.....	REPLACES P/N 961006205000
11%	15625Z0T800	PACKING, OIL FILLER CAP	1	

**HONDA GX160UT2SCM ENG. — CRANKSHAFT ASSY.**

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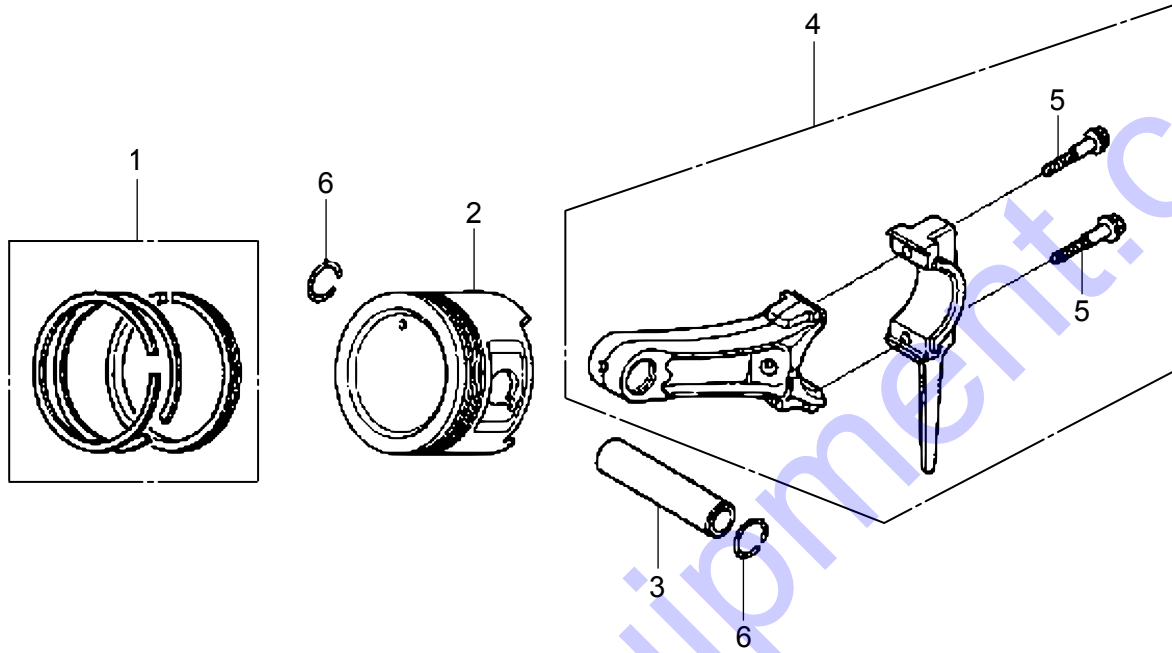
## HONDA GX160UT2SCM ENG. — CRANKSHAFT ASSY.

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<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13310Z4M880	CRANKSHAFT COMPLETE	1	
8	90741883810	KEY 5X5X33	1	



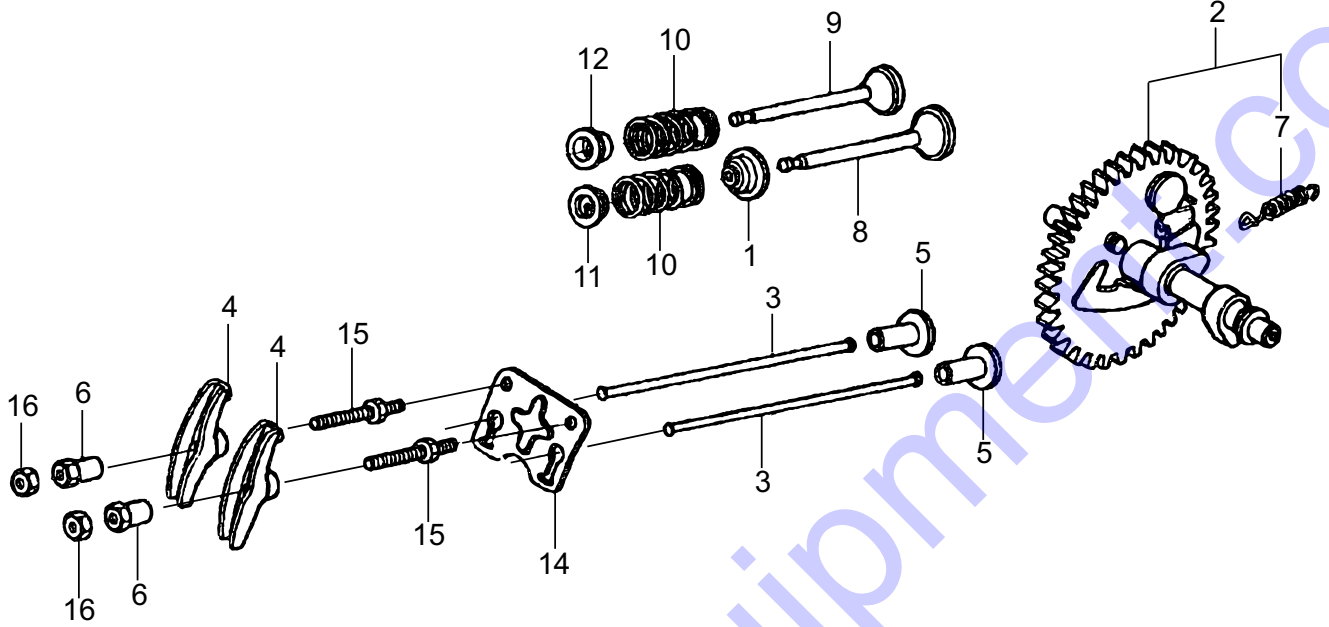
# HONDA GX160UT2SCM ENGINE — PISTON ASSY.



## HONDA GX160UT2SCM ENGINE — PISTON ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010Z4M801	RING SET, PISTON (STD)	1	
1	13011Z4M003	RING SET, PISTON 0.25	1	
1	13012Z4M003	RING SET, PISTON 0.50	1	
2	13101Z4M800	PISTON (STD)	1	
2	13102Z4M800	PISTON 0.25	1	
2	13103Z4M800	PISTON 0.50	1	
3	13111Z4M000	PIN, PISTON	1	
4	13200Z0T900	ROD ASSY., CONNECTING.....	1	INCLUDES ITEM W/\$
5\$	90001Z4M000	BOLT, CONNECTING ROD 6X34.5	2	
6	90551ZE1000	CLIP, PISTON PIN 18MM	2	

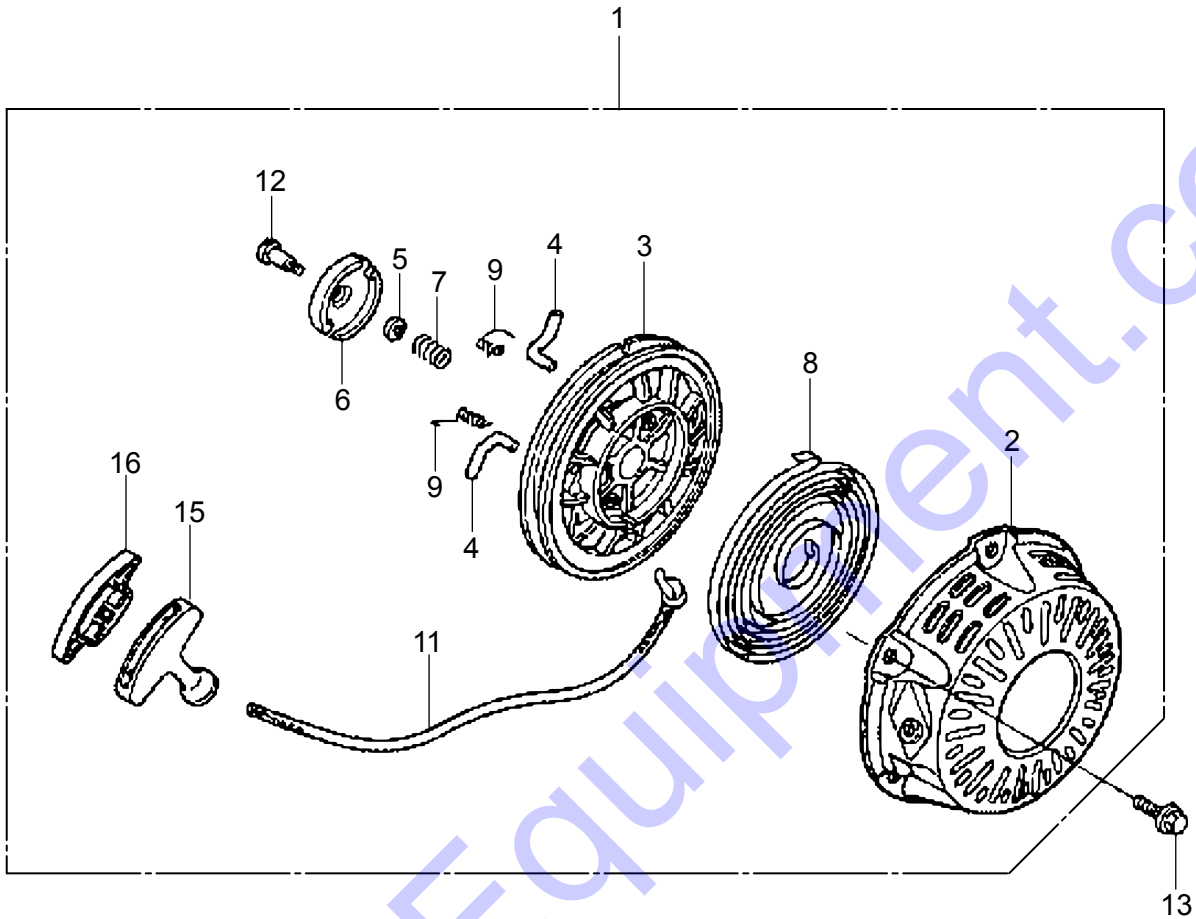
# HONDA GX160UT2SCM ENG. — CAMSHAFT ASSY.



## HONDA GX160UT2SCM ENG. — CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12209Z4M801	SEAL, VALVE STEM	1	
2	14100Z4M000	CAMSHAFT ASSY.....	1	INCLUDES ITEM W/\$
3	14410Z4M000	ROD COMPLETE, PUSH	2	
4	14431ZE1000	ARM, VALVE ROCKER	2	
5	14441ZE1010	VALVE LIFTER	2	
6	14451Z4M000	PIVOT, ROCKER ARM	2	
7\$	14568ZE1000	SPRING, WEIGHT RETURN	1	
8	14711Z4M000	VALVE, INTAKE	1	
9	14721Z4M000	VALVE, EXHAUST	1	
10	14751ZF1000	SPRING, VALVE	2	
11	14771Z0T900	RETAINER, SPRING VALVE	1	
12	14771Z0T900	RETAINER, SPRING VALVE	1	
14	14791Z4M000	PLATE, PUSH ROD GUIDE	1	
15	90012ZE0010	BOLT, PIVOT, 8MM	2	
16	90206ZE1000	NUT, PIVOT ADJUSTING	2	

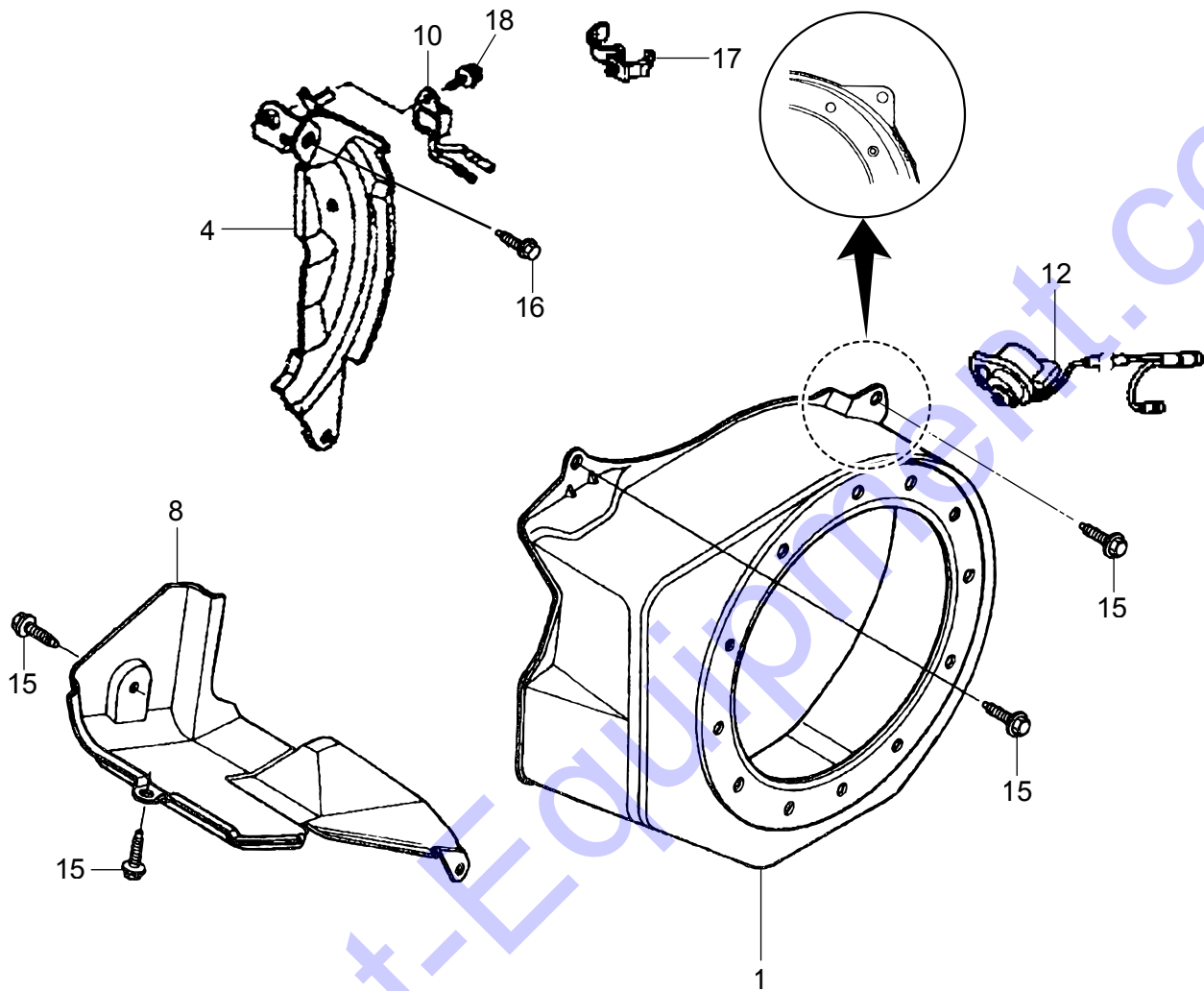
# HONDA GX160UT2SCM ENG. — RECOIL STARTER ASSY.



## HONDA GX160UT2SCM ENG. — RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400Z4M801ZD	STARTER ASSY., RECOIL .....	1.....	INCLUDES ITEMS W/\$
2\$	28410Z4M003ZD	CASE COMPLETE, RECOIL STARTER	1	
3\$	28421Z1T702	REEL, RECOIL STARTER	1	
4\$	28422Z1T701	RATCHET, STARTER	2	
5\$	28431ZH8801	PLATE, FRICTION	1	
6\$	28433Z1T702	RATCHET GUIDE	1	
7\$	28441ZH8801	FRICTION SPRING	1	
8\$	28442ZH8003	SPRING, RECOIL STARTER	1	
9\$	28443Z1T701	SPRING, RETURN	2	
11\$	28462ZH8003	ROPE, RECOIL STARTER	1	
12\$	90003ZH8801	SET SCREW	1	
13	957010600800	BOLT, FLANGE 6X8	3	
15\$	28461Z4M305	KNOB, RECOIL STARTER	1	
16\$	28463Z4M003	KNOB, REINFORCEMENT	1	

# HONDA GX160UT2SCM ENG. — FAN COVER ASSY.

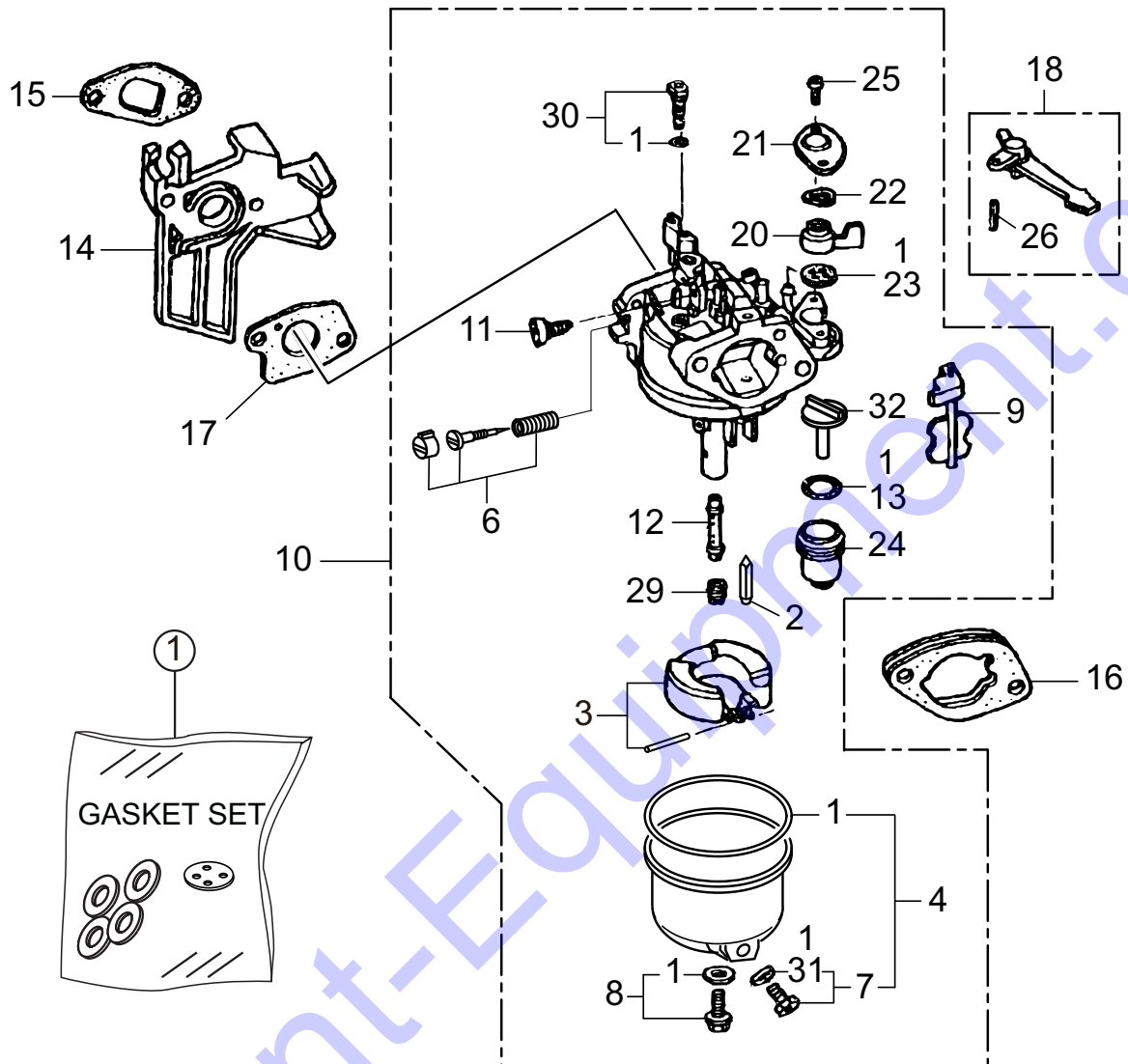


## HONDA GX160UT2SCM ENG. — FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	19610Z4M000ZB	COVER COMPLETE, FAN	1	
4	19611Z4M810	PLATE COMPLETE, SIDE (OIL ALERT)	1	
8	19630Z4M000	SHROUD COMPLETE	1	
10	34150ZH7023	ALERT UNIT, OIL	1	
12	35120Z0T831	SWITCH ASSY., E/G STOP	1	
15	90013883000	FLANGE BOLT 6X12	6	
16	90022888010	FLANGE BOLT 6X20	1	
17	90601ZH7013	CLIP, HARNESS	1	
18	957010600800	FLANGE BOLT 6X8	1	



# HONDA GX160UT2SCM ENG. — CARBURETOR ASSY.



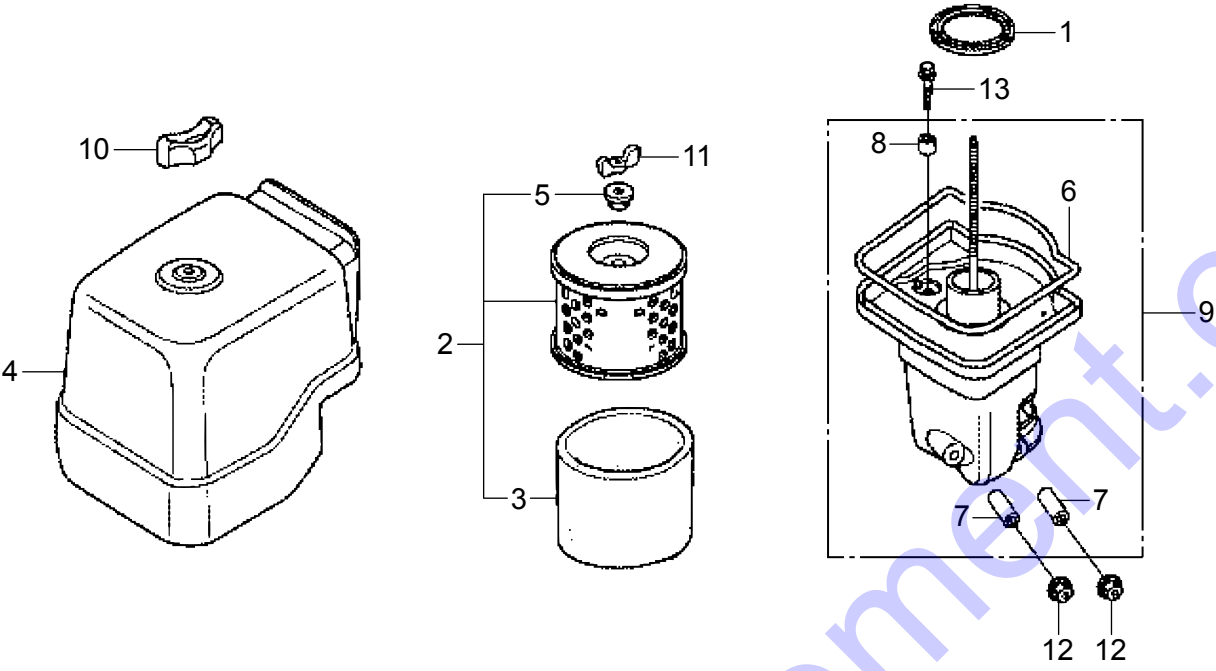
## NOTICE

Gasket set, item 1 included with items 4, 7, 8, 13, 23, 30 and 31.

## HONDA GX160UT2SCM ENG. — CARBURETOR ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1*%	16010ZE1812	GASKET SET	1	
2*	16011ZE0005	FLOAT VALVE SET	1	
3*	16013Z0SB01	FLOAT SET	1	
4*	16015Z4M911	CHAMBER SET, FLOAT .....	1	INCLUDES ITEM W/%, &
6*	16016ZH7W01	SCREW SET, PILOT	1	
7*&	16024Z5T901	SCREW SET, DRAIN .....	1	INCLUDES ITEM W/%
8*	16028Z5T901	SCREW SET .....	1	INCLUDES ITEM W/%
9*	16044Z4M911	CHOKE SET	1	
10	16100Z4M781	CARBURETOR ASSY.....	1	INCLUDES ITEMS W/*
11*	16124ZE0005	SCREW, THROTTLE STOP	1	
12*	16166Z4M781	NOZZLE, MAIN	1	
13*	16955283000	PACKING, CUP .....	1	INCLUDES ITEM W/%
				REPLACES P/N 16173001004
14	16211Z4M000	INSULATOR, CARBURETOR	1	
15	16212ZH8800	PACKING, INSULATOR	1	
16	16220ZE1020	SPACER COMPLETE, CARBURETOR	1	
17	16221ZH8801	PACKING, CARBURETOR	1	
18	16610ZE1000	CHOKE LEVER COMPLETE .....	1	INCLUDES ITEM W/\$
20*	16953ZE1812	LEVER, COCK	1	
21*	16954ZE1812	PLATE, LEVER SETTING	1	
22*	16956ZE1811	SPRING, COCK LEVER	1	
23*	16957ZE1812	PACKING, FUEL COCK .....	1	INCLUDES ITEM W/%
24*	16967ZE0811	CUP, FUEL STRAINER	1	
25*	93500030060H	SCREW 3X6	2	
26\$	9430520122	SPRING PIN 2X12	1	
29*	99101ZH80720	MAIN JET #72	1	
30*	99204ZE20400	PILOT, JET SET #40 .....	1	INCLUDES ITEM W/%
31*	16141Z0S003	WASHER, FLAT.....	1	INCLUDES ITEM W/%
32*	16959Z5T901	FILTER, CUP	1	

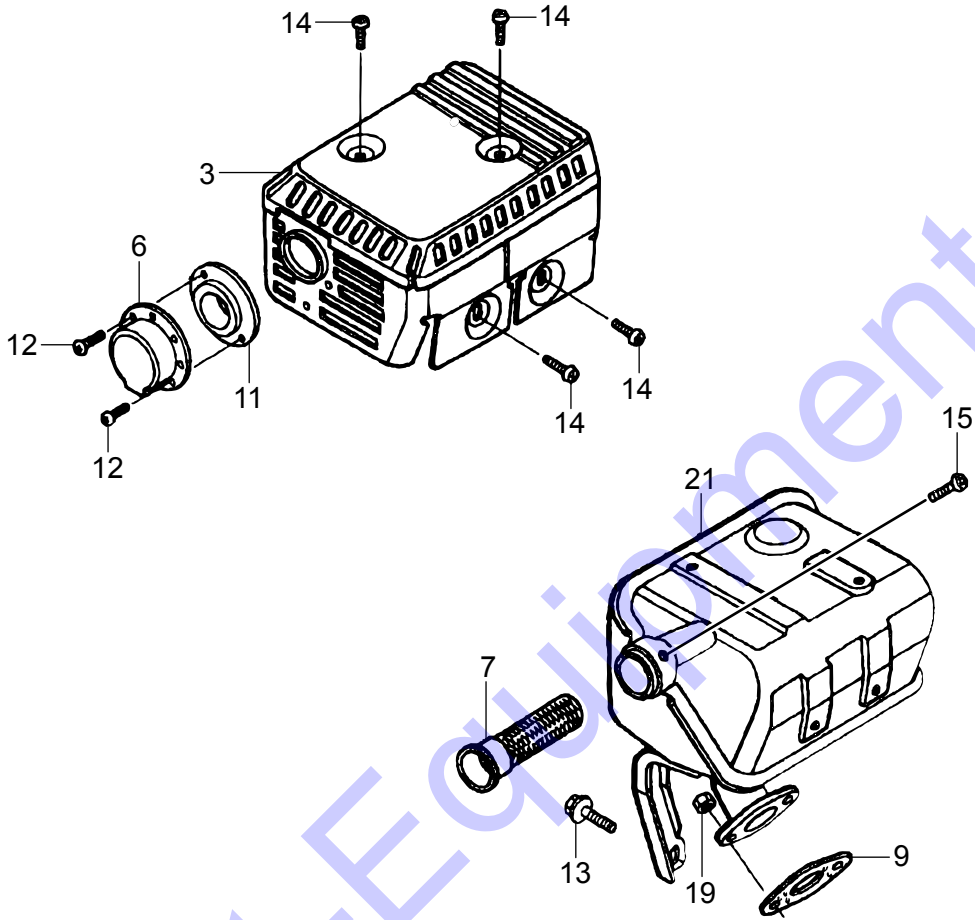
**HONDA GX160UT2SCM ENGINE — AIR CLEANER ASSY.**



## HONDA GX160UT2SCM ENGINE — AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16271ZE1000	PACKING, ELBOW	1	
2	17210Z0V781	ELEMENT .....	1	INCLUDES ITEMS W/\$
3\$	17218Z0V780	FILTER, OUTER	1	
4	17230Z0V780	COVER ASSY.	1	
5\$	17232891000	GROMMET	1	
6%	17233Z0V780	SEAL, AIR CLEANER COVER	1	
7%	17238ZE7010	COLLAR	2	
8%	17239ZE3840	COLLAR B	1	
9	17410Z0V780	ELBOW COMPLETE .....	1	INCLUDES ITEMS W/%
10	90300Z4M800	WING NUT	1	
11	90325044000	WING NUT	1	
12	9405006000	FLANGE NUT 6MM	2	
13	957010602000	FLANGE BOLT 6X20	1	

# HONDA GX160UT2SCM ENGINE — MUFFLER ASSY.



## HONDA GX160UT2SCM ENGINE — MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3	18320Z4M000	PROTECTOR COMPLT., MUFFLER (STD)	1	
6	18340ZE1010	DEFLECTOR COMPLETE	1	
7	18355ZE1000	ARRESTER, SPARK	1	
9	18381Z0T801	GASKET, MUFFLER	1	
11	18522ZE1000	GUIDE, MUFFLER	1	
12	90002Z0T800	SCREW, TAPPING, 4X8	2	
13	90016ZE1000	FLANGE, BOLT 6X13	1	
14	90050ZE1000	SCREW, TAPPING, 5X8	4	
15	90055ZE1000	SCREW, TAPPING, 4X6	1	
19	94001080000S	NUT 8MM	2	
21	18310Z4MV51	MUFFLER COMPLETE	1	

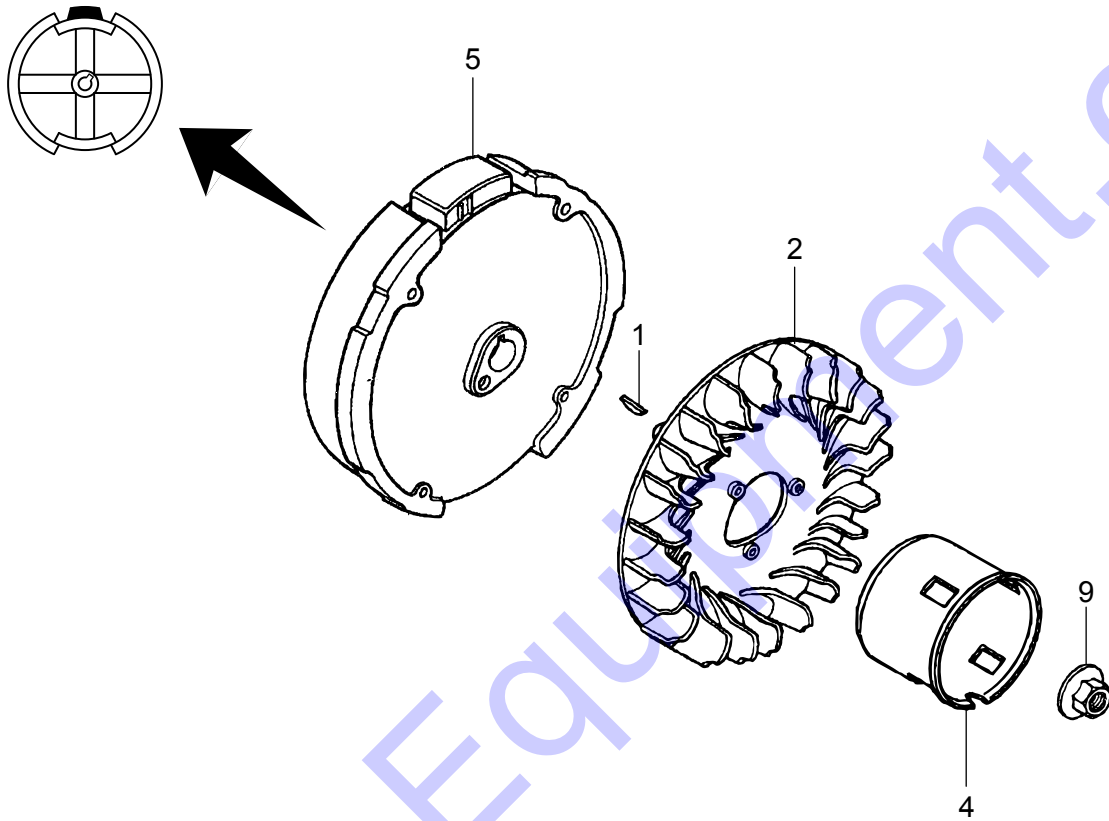


## HONDA GX160UT2SCM ENGINE — FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16854ZH8000	RUBBER, SUPPORT (107MM)	1	
2	16955ZE1010	JOINT, FUEL TANK	1	
5%	17631Z0T801	PACKING, FUEL FILLER CAP	1	
7	90004ZH7003	FLANGE BOLT, 6X29	1	
8	91353671003	O-RING, 14MM.....	1	REPLACES P/N 91353671004
9	9405006000	FLANGE NUT, 6MM	2	
10	91424Z4M003	TUBE, FUEL 4.5X145	1	
12	950024080008	CLAMP, TUBE (D8)	2	
13	17620Z4H900	CAP COMPLETE, FUEL TANK.....	1	INCLUDES ITEM W/%
14	17672Z4H000	FUEL FILTER, FUEL TANK	1	
15	17510Z4M000ZB	FUEL TANK COMPLETE, NH1, BLK	1	
16	90503898000	WASHER, TANK CUSHION	2	
17	91302Z4M003	O-RING 5.5X1.5	2	



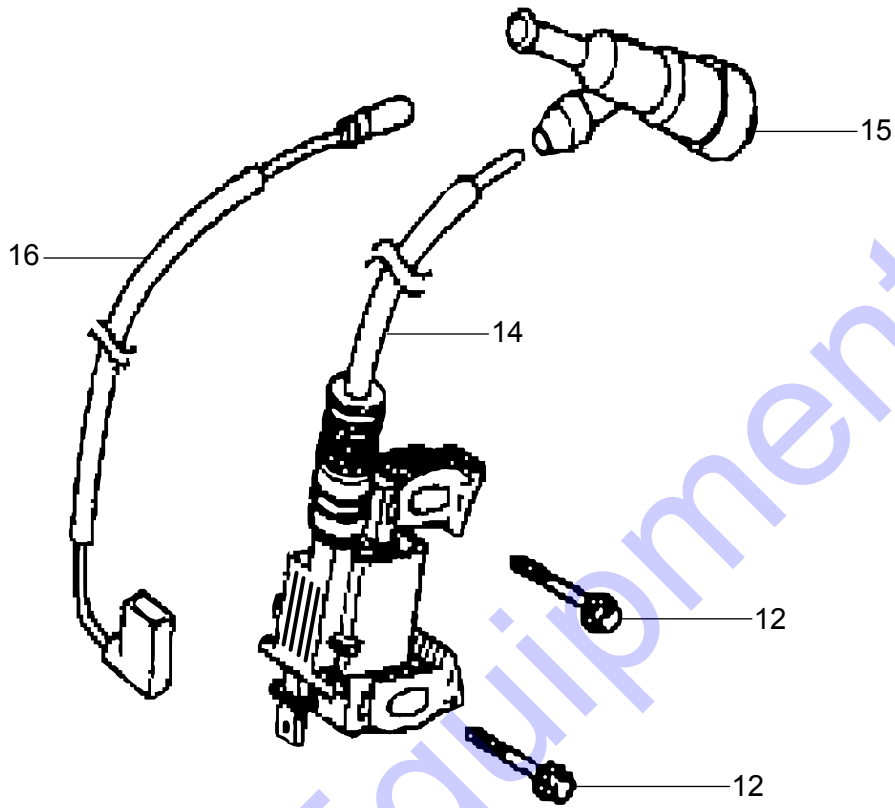
# HONDA GX160UT2SCM ENGINE — FLYWHEEL ASSY.



## HONDA GX160UT2SCM ENGINE — FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13331357000	WOODRUFF KEY 25X18	1	
2	19511ZE1000	COOLING FAN	1	
4	28451Z4M003	STARTER, PULLEY	1	
5	31110Z4M000	FLYWHEEL COMPLETE	1	
9	90201Z0T800	NUT, SPECIAL 14MM	1	

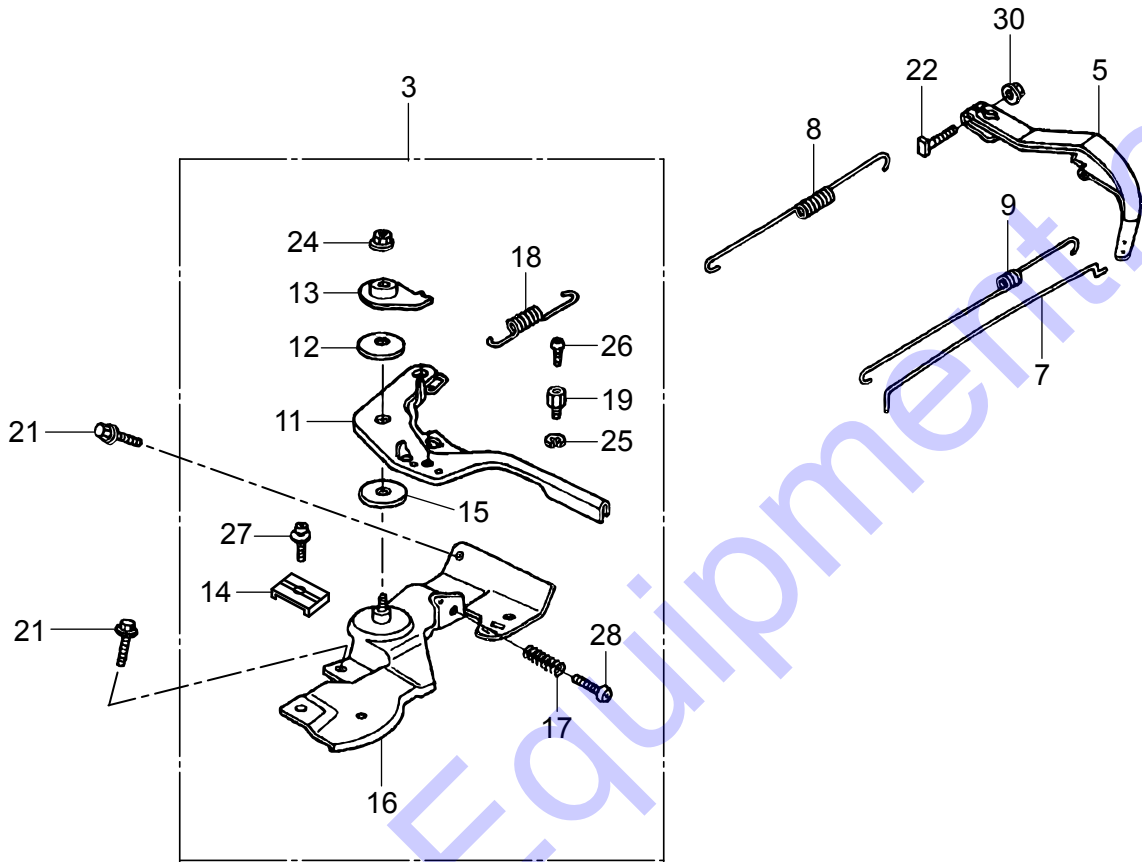
# HONDA GX160UT2SCM ENGINE — IGNITION COIL ASSY.



## HONDA GX160UT2SCM ENGINE — IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
12	957010602500	FLANGE BOLT 6X25 .....	2.....	REPLACES P/N 90121952000
14	30500Z0T003	COIL ASSY., IGNITION	1	
15	30700Z0T812	CAP ASSY., NOISE SUPPRESSOR	1	
16	32195Z0T003	CORD, STOP SWITCH 370MM	1	

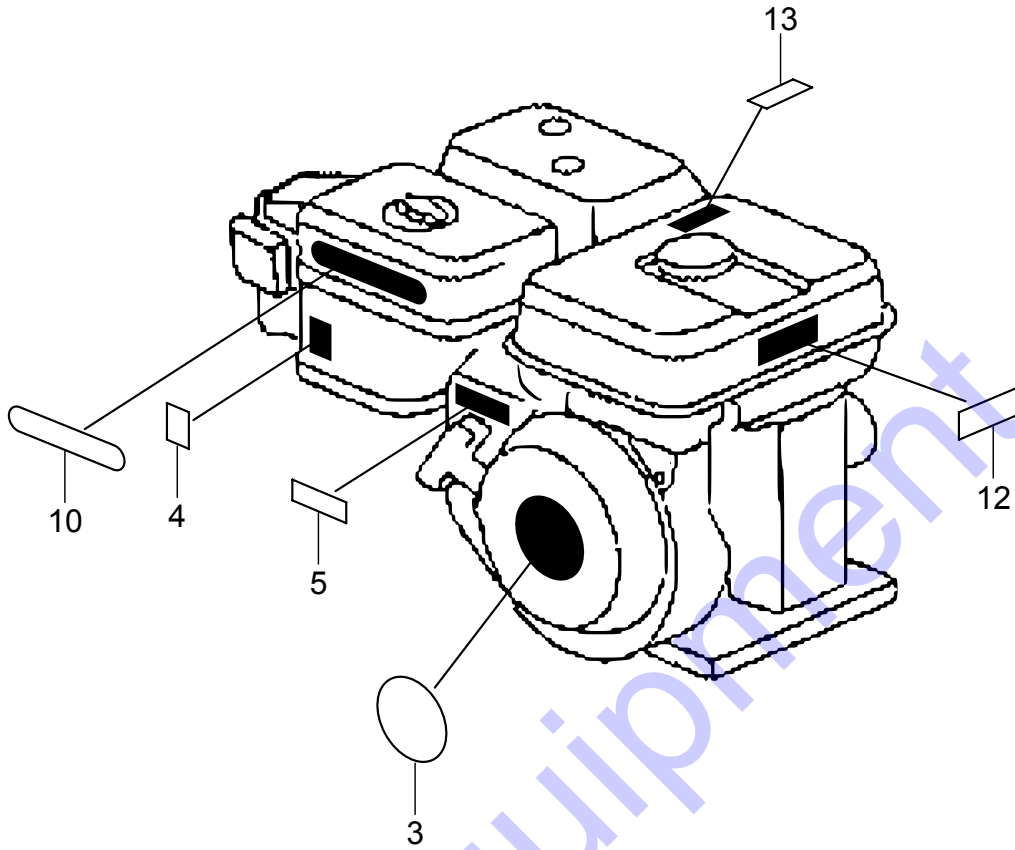
# HONDA GX160UT2SCM ENGINE — CONTROL ASSY.



## HONDA GX160UT2SCM ENGINE — CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3	16500Z0V780	CONTROL ASSY.....	1.....	INCLUDES ITEMS W/#
5	16551Z4M000	ARM, GOVERNOR	1	
7	16555Z4M000	ROD, GOVERNOR	1	
8	16561Z4M010	SPRING, GOVERNOR	1	
9	16562Z4M000	SPRING, THROTTLE RETURN	1	
11#	16571Z4M000	LEVER, CONTROL	1	
12#	16574ZE1000	LEVER, SPRING	1	
13#	16575ZH8000	WASHER, CONTROL LEVER	1	
14#	16576891000	HOLDER, CABLE	1	
15#	16578ZE1000	SPACER, CONTROL LEVER	1	
16#	16580Z0V780	BASE COMPLETE, CONTROL	1	
17#	16584883300	ADJUSTING SPRING	1	
18#	16592ZE1810	SPRING, CABLE, RETURN	1	
19#	16594883010	HOLDER, WIRE	1	
21	90013883000	FLANGE BOLT 6X12	2	
22	90015Z5T000	BOLT, GOVERNOR ARM	1	
24#	90114SA0000	LOCK NUT 6MM	1	
25#	90605230000	CIR CLIP	1	
26#	0043504060	SCREW 4X6 .....	1.....	REPLACES P/N 93500040060H
27#	0202005T125	SCREW 5X16 .....	1.....	REPLACES P/N 93500050160A
28#	93500050250H	SCREW 5X25	1	
30	9405006000	FLANGE NUT 6MM	1	

# HONDA GX160UT2SCM ENGINE — DECALS ASSY.



## HONDA GX160UT2SCM ENGINE — DECALS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3	87521Z4M000	EMBLEM (GX160)	1	
4	87528Z4M000	MARK, CHOKE	1	
5	87532ZH7000	MARK, THROTTLE INDICATION	1	
10	87602Z0V780	MARK, SALES POINT	1	
12	87516Z4H010	MARK, OP CAUTION	1	
13	87539Z4M000	MARK, EX. CAUTION	1	



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