

OPERATION AND PARTS MANUAL



Mikasa **SERIES**
MODEL MVC40H
PLATE COMPACTOR
(HONDA GX100UTVMA GASOLINE ENGINE)

Revision #0 (08/01/18)

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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.



CALIFORNIA — Proposition 65 Warning

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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Honda GX100UTVMA Engine

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NOTICE

Specifications and part numbers are subject to change without notice.

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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
	Burn hazards
	Respiratory hazards
	Accidental starting hazards
	Eye and hearing hazards
	Rotating parts hazards

SAFETY INFORMATION

GENERAL SAFETY

CAUTION

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



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



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



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

NOTICE

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



SAFETY INFORMATION

COMPACTOR SAFETY

DANGER

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



WARNING

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

CAUTION

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

NOTICE

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

ENGINE SAFETY

DANGER

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



WARNING

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



CAUTION

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



NOTICE

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

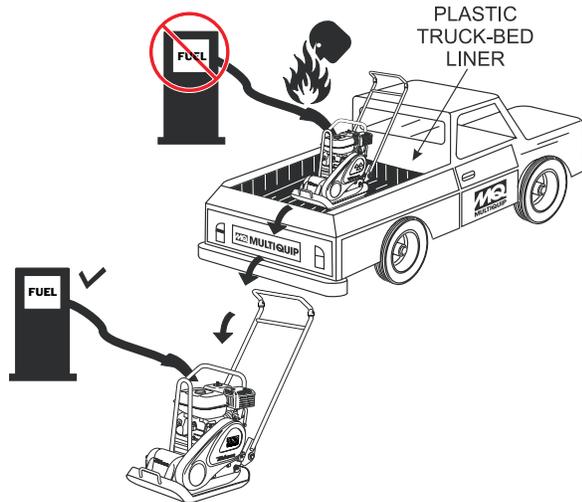


SAFETY INFORMATION

FUEL SAFETY

DANGER

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



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

BATTERY SAFETY (ELECTRIC START ONLY)

DANGER

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

WARNING

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

CAUTION

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

TRANSPORTING SAFETY

CAUTION

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

NOTICE

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

ENVIRONMENTAL SAFETY

NOTICE

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

SPECIFICATIONS

Table 1. Compactor Specifications

Model	MVC40H
Centrifugal Force	1,619 ft lbs. (7.2 kN)
Vibration Frequency	6,200 vpm (103 Hz)
Maximum Forward Speed	82 ft/min (25 m/min)
Plate Size (L x W)	16.53 x 11.61 in (420 x 295 mm)
Operating Weight	110.23 lbs. (50 kg)

Table 2. Engine Specifications

Make	HONDA
Model	GX100UTVMA
Type	Air-cooled, 4 stroke, Gasoline Engine
Displacement	86 cc.
Max Output	2.1 kW/3,600 R.P.M.
Continuous Output	1.7 kW/3,600 R.P.M.
Fuel Tank Capacity	Approx. 0.2 U.S. gallons (0.77 liters)
Fuel	Unleaded Automobile Gasoline
Lube Oil Capacity	.317 qts. (0.3 liters)
Spark Plug	NGK BMR4A (Champion RCJ14)
Dimensions	11.3 x 11.97 x 16.46 in. (287 x 304 x 418 mm)
Dry Net Weight	23.37 lbs (10.6 Kg.)

NOISE AND VIBRATION EMISSIONS

Table 3. Noise and Vibration Emissions

Measured Sound Power Level in dB(A)	100
Guaranteed Sound Power Level in dB(A)	105
Guaranteed Sound Pressure Level at Operator Station in dB(A)	86
Hand-Arm Vibration in m/s ²	5.6

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.*

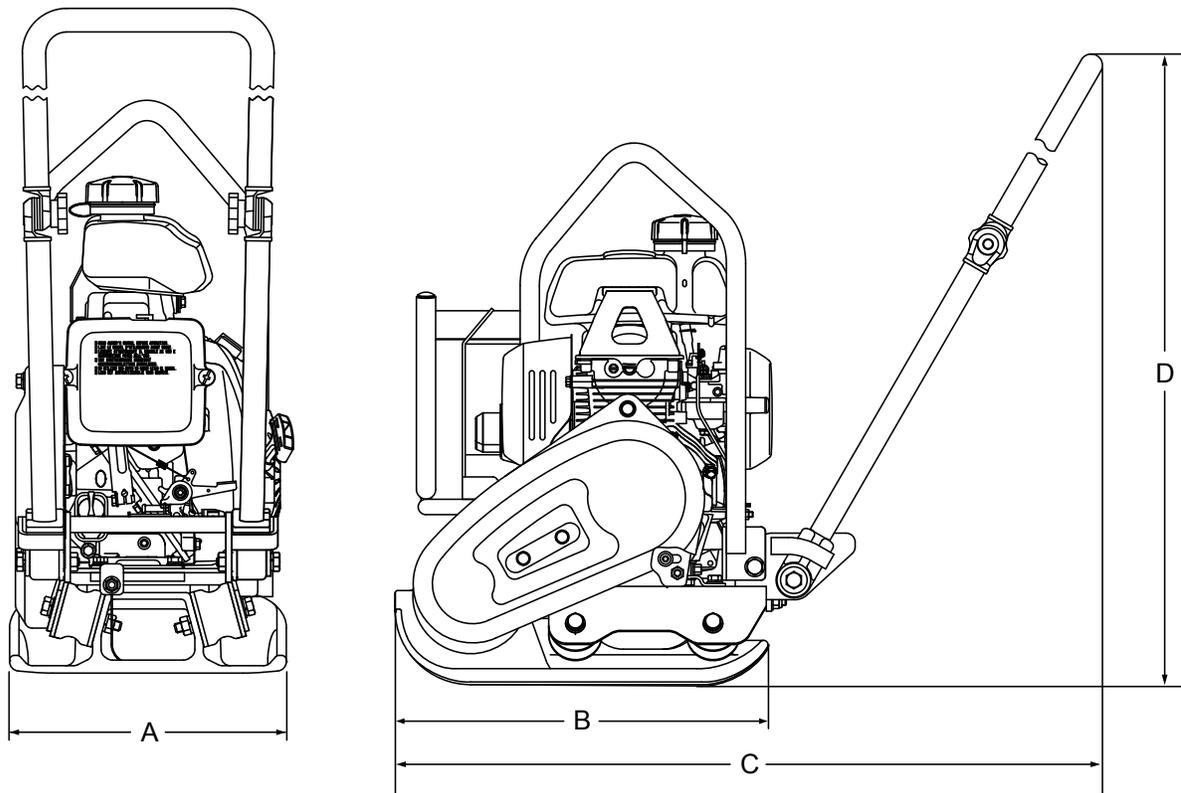


Figure 1. Plate Compactor Components

Table 4. Dimensions		
Reference Letter	Description	DIMENSION in. (mm)
A	Width	11.6 in. (295 mm)
B	Length (Plate)	16.5 in. (420 mm)
C	Length (Compactor, Handle Tilted)	35.8 in. (910 mm)
D	Height (Handle Tilted)	36.2 in. (920 mm)

GENERAL INFORMATION

DEFINITION OF PLATE COMPACTOR

The Mikasa MVC40H is a one-direction (forward) 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.

The MVC40H is small and lightweight. It can be easily handled by one person in confined areas. It has an accessible front-mounted vibrator assembly. The sealed belt cover keeps dirt and rocks away from the belt.

VIBRATORY PLATE

The vibratory plate of the compactor produces 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 of 6,200 vpm (vibrations per minute). The travel speed of the compactor is approximately 82 ft./minute (25 meters/minute).

ENGINE

The MQ Mikasa MVC40H Plate Compactor is equipped with an air-cooled, 4-stroke Honda GX100UTVMA gasoline engine. When adding fuel, always use unleaded gasoline.

CONTROLS

Before starting the MVC40H Plate Compactor, identify and understand the function of the controls and components.

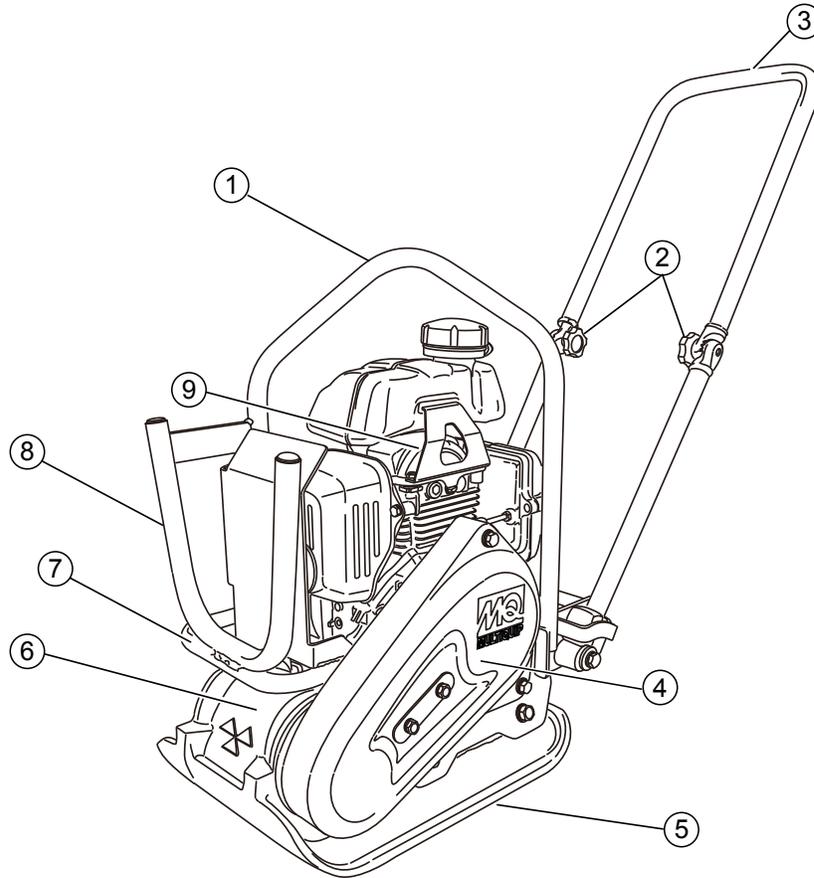


Figure 2. Plate Compactor Components

Figure 2 shows the location of the basic controls and components of the MVC40H Plate Compactor. The function of each control is described below:

1. **Lifting Bale** — When lifting of the compactor is required either by forklift, crane etc., tie rope or chain around this lifting point.
2. **Handle Bar Adjuster Bolt** — Adjusts the handle bar by loosening the bolts and raising the handle bar to the desired position. Make sure to tighten the bolts after adjusting handle bar.
3. **Handle Bar** — When operating the compactor use this handle bar to maneuver the compactor.
4. **Belt Cover** — Remove this cover to gain access to the V-belts. **NEVER** run the compactor without the V-belt cover. If the V-belt cover is not installed, the possibility exist that your hand may get caught between the V-belt and clutch, thus causing serious injury and bodily harm.
5. **Vibrating Plate** — A flat, open plate made of durable cast iron construction used in the compacting of soil.
6. **Vibration Case** — Encloses the eccentric, gears and counter weights.
7. **Hand Lift Handle** — When lifting of the compactor by personnel is required, use this hand lift handle. **DO NOT** attach a crane or heavy lifting device to this handle to lift the compactor.
8. **Water Tank Holder** — Holds an optional water tank if used.
9. **Gasoline Engine** — This plate compactor uses a 4-stroke, air-cooled HONDA GX100UTVMA gasoline engine. Refer to the HONDA owner's manual for engine information.

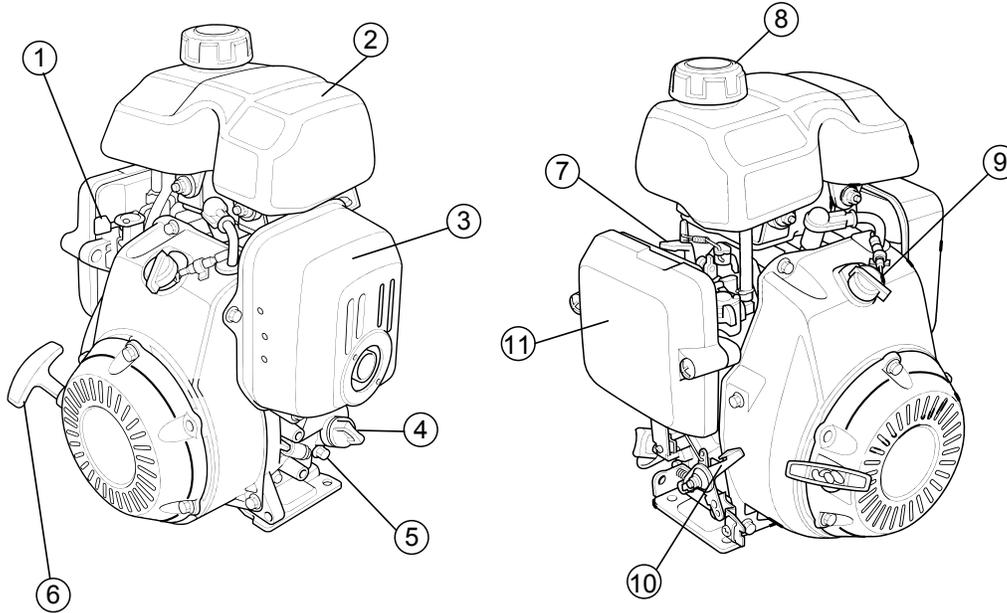


Figure 3. Engine Components

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. **Fuel Valve Lever** — **OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel. **Throttle Lever** — Used to adjust engine RPM speed (lever advanced forward - **SLOW**, lever back toward operator - **FAST**).
2. **Fuel Tank** — Holds unleaded gasoline. For additional information refer to engine owner's manual.
3. **Muffler** — Used to reduce noise and emissions.

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.

4. **Oil Dipstick/ Filler Cap** — Remove the filler cap dipstick when checking the engine oil level. Add engine oil through this filler port. See Table 5 for recommended type engine oil.
5. **Oil Drain Plug** — Remove this plug to drain engine oil from the crankcase.

6. **Recoil Starter (pull rope)** — Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
7. **Choke Lever** — Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
8. **Fuel Filler Cap** — Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.
9. **Start/Stop Switch** — Place this switch in the "ON" position (1) to start the engine. Place in the "OFF" position (0) to stop the engine.
10. **Throttle Lever** — Used to adjust engine RPM speed. For normal operation this lever should always be placed in the **RUN** position.
11. **Air Cleaner** — Prevents dirt and other debris from entering the fuel system. Release clips on side of air filter canister to gain access to filter element.

NOTICE

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.

BEFORE STARTING

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

ENGINE OIL CHECK

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

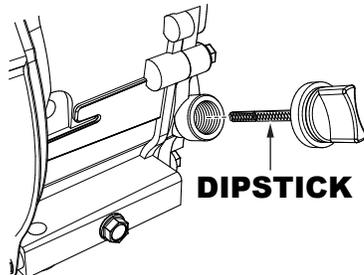


Figure 4. Engine Oil Dipstick Removal

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 (Table 5).

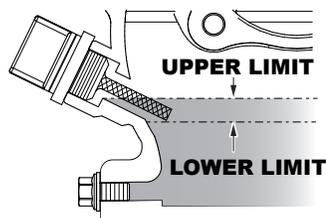


Figure 5. Engine Oil Dipstick (Oil Level)

NOTICE

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

Table 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

WARNING



Adding fuel to the tank should be accomplished 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.

FUEL CHECK

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

V-BELT CHECK

CAUTION

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

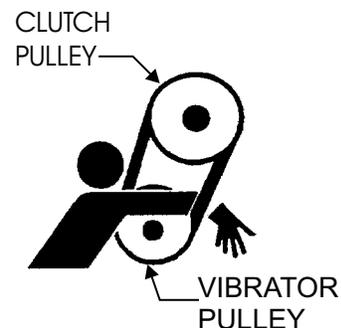


Figure 6. V-Belt Hazard

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

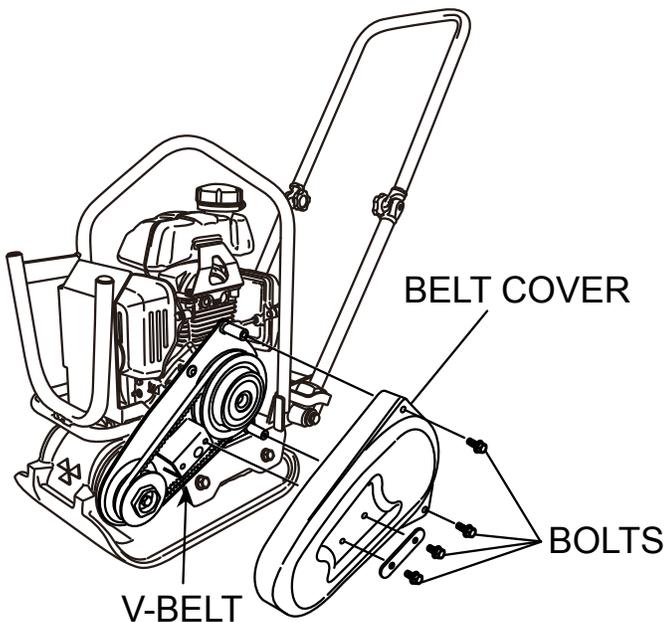


Figure 7. V-Belt Cover Removal

2. The V-belt tension is proper if the V-belt bends 10 to 15 mm (Figure 8) when depressed with finger midway between the clutch and vibration pulley shafts.

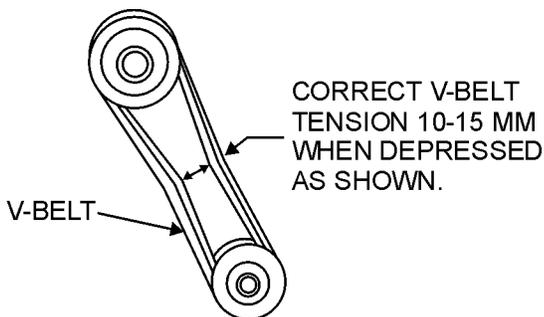


Figure 8. V-Belt Tension

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

VIBRATOR OIL CHECK

1. Place the 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 9. The oil level should be up to the oil plug. **IMPORTANT**, if oil is required, replace using only SAE10W-30 motor oil.

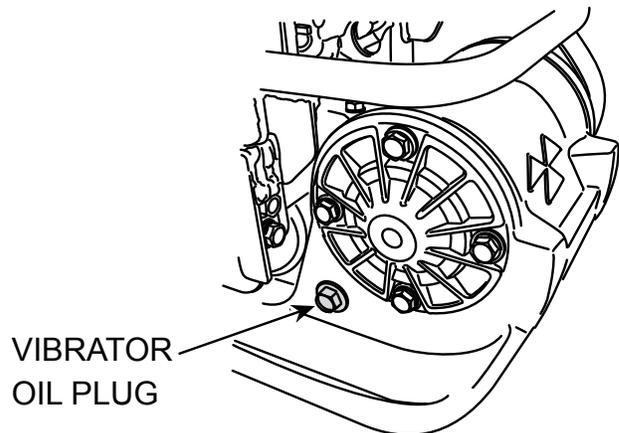


Figure 9. Vibrator Oil Plug

INITIAL START-UP

1. Place the fuel valve lever (Figure 10) in the **ON** position.

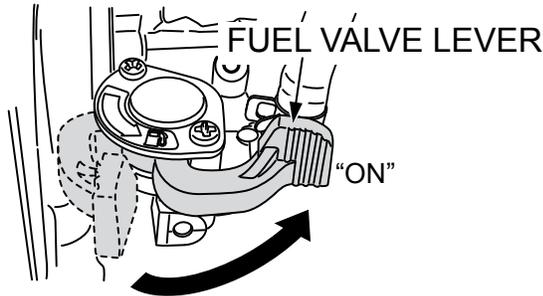


Figure 10. Fuel Valve Lever

2. Place the engine ON/OFF switch (Figure 11) in the **ON** position.

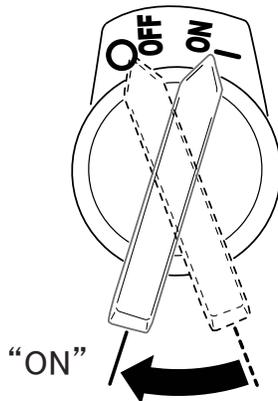


Figure 11. Engine ON/OFF Switch

3. Place the choke lever (Figure 12) in the "CLOSED" position if starting a cold engine. If starting a warm engine or the temperature is warm, place the choke lever in the "OPEN" position.

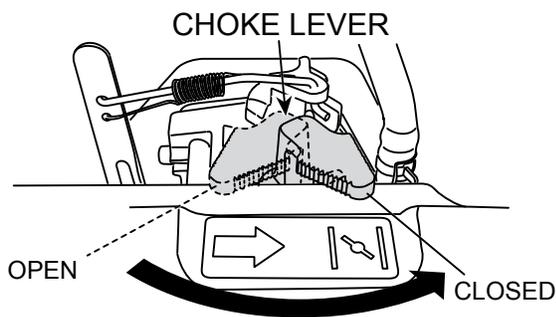


Figure 12. Choke Lever (Closed)

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. Place the throttle lever (Figure 13) in the **SLOW** position (idle).

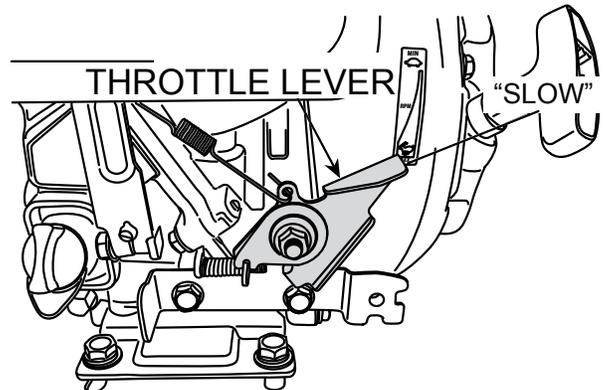


Figure 13. Throttle Lever (Slow)

5. Grasp the starter grip (Figure 14) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Rewind the rope a little from that point and pull out sharply.

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.

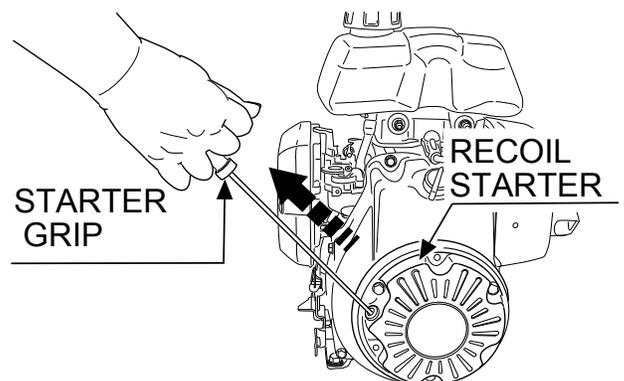


Figure 14. Starter Grip

OPERATION

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

OPERATION

CAUTION

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

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

NOTICE

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

3. Firmly grasp the compactor's handle bar with both hands. The compactor will begin moving forward.
4. 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.

5. 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. 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.

Normal Shutdown

1. Place the throttle lever (Figure 13) in slow position, and listen for the engine speed to decrease.
2. Place the Engine **ON/OFF** switch (Figure 10) in the **OFF** position.
3. Place the fuel valve lever (Figure 9) in the **OFF** position.

Emergency Shutdown

Move the throttle lever quickly to the **SLOW** position, and place the Engine **ON/OFF** switch in the **OFF** position.

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.

Table 6. Engine Check

Item	Hours of Operation
Leakage of Oil or Fuel	Every 8 hours (everyday)
Tightness of Fastening Threads	Every 8 hours (everyday)
Damage of any part	Every 8 hours (everyday)
Engine Oil Check and Replenishment	Every 8 hours (everyday) Replenish to specified max. level
Engine Oil Replenishment	After first 20 hours then every 100 hours
Air Cleaner Cleaning	Every 50 hours

Table 7. Machine Inspection

Item	Hours of Operation
Starting Check	Every 8 hours (everyday)
Loose or lost screws	Every 8 hours (everyday)
Damage of any part	Every 8 hours (everyday)
Function of controlling system part	Every 8 hours (everyday)
Vibrator Oil Check	Every 100 hours
Vibrator Oil Replacement	Every 300 hours
V-belt (clutch) Check	Every 200 hours

DAILY SERVICE

1. Check for leakage of fuel or oil.
2. Check engine oil.

NOTICE

Fuel piping and connections should be replaced every 2 years.

3. Check for loose screws including tightness. See Table 8 for retightening.

Table 8. Tightening Torque (kg/cm) Diameter

Material	6 mm	8 mm	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 counterpart 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 after operation. Remove the oil filler cap then unscrew the engine oil drain plug located at the base of the engine. Drain the old oil into a pan (Figure 15).

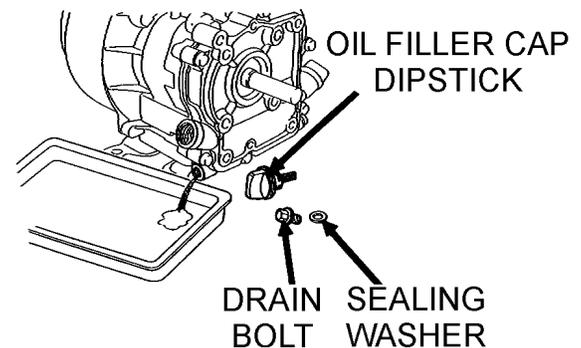


Figure 15. Engine Oil (Draining)

2. Replace engine oil with recommended type oil as listed in Table 5. For engine oil capacity, see Table 2 (engine specifications). **DO NOT** overfill.
3. Reinstall drain bolt with sealing washer and tighten securely.

AIR FILTER

1. Remove the air cleaner cover and foam filter element as shown in Figure 16.
2. Wash the foam outer filter element in kerosene or diesel fuel. Then saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil.
3. Completely squeeze the element to remove the mixture and reinstall it back into the air cleaner.

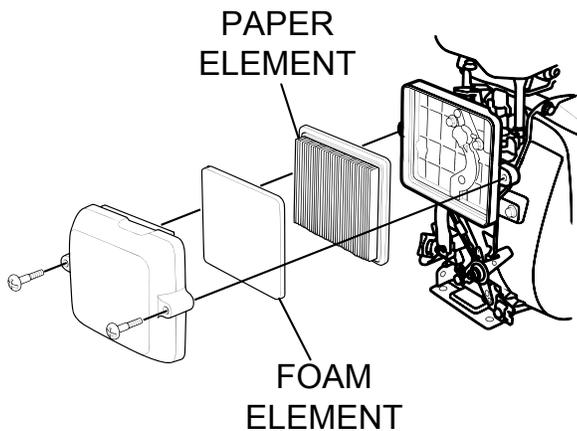


Figure 16. Air Filter

SPARK PLUG

1. Remove and clean the spark plug (Figure 17).

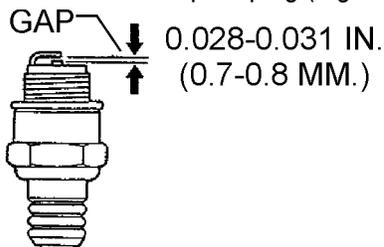


Figure 17. Spark Plug Gap

2. Adjust the spark gap to 0.028~0.031 inch (0.6~0.7 mm). This unit has electronic ignition which requires no adjustments.

CHANGING VIBRATOR OIL

1. When changing the vibrator oil, remove the drain plug.
2. Tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot.
3. Remember to use only 10W-30 motor oil when replacing vibrator oil.

CHECKING/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.

CHECKING V-BELT

Visually examine the V-belt (Figure 18) 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.

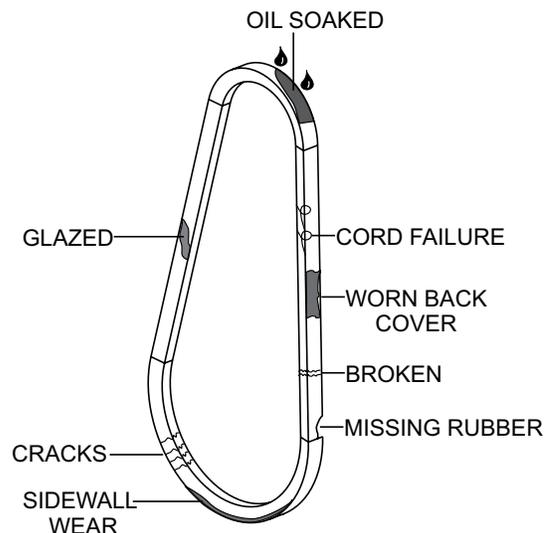


Figure 18. V-Belt Inspection

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, visually check outer drum of the clutch for seizure and "V" groove for wear or damage. Clean the "V" groove as necessary. Wear of lining or shoe should be checked regularly. If the shoe is worn, power transmission becomes deficient and slipping will result.

WARNING

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.

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 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.

Folding Handle

To fold handle for storage:

1. Loosen handle bar adjuster bolts (Figure 19).
2. Fold the handle inward as far as possible.
3. Tighten handle bar adjuster bolts.

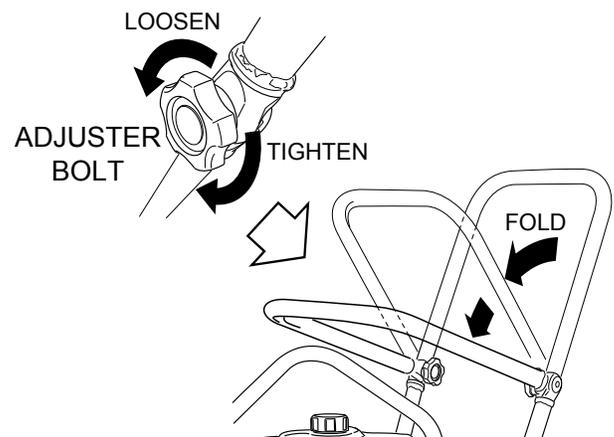


Figure 19. Folding the Handle

TROUBLESHOOTING

Troubleshooting (Engine)		
Symptom	Possible Problem	Solution
Difficult to start, fuel is available, but no spark at spark plug.	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
	Spark plug is red?	Check transistor ignition unit.
	Spark plug is bluish white?	If insufficient compression, repair or replace engine. If injected air leaking, correct leak. If carburetor jets clogged, clean carburetor.
	No spark present at tip of spark plug?	Check if transistor ignition unit is broken, and replace defective unit. Check if voltage cord cracked or broken and replace. Check if spark plug 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

Troubleshooting (Plate Compactor)		
Symptom	Possible Problem	Solution
Travel speed too low, and vibration is weak.	Engine speed too low?	Set engine speed to correct RPM.
	Clutch slips?	Check or replace clutch.
	V-belt slips?	Adjust or replace V-belt.
	Excessive oil in vibrator?	Drain excess oil and fill to proper level.
	Malfunction in vibrator housing?	Check eccentric, gears and counter weights.
	Bearing Failure?	Replace bearing.
	Insufficient engine output?	Check engine, compression etc.

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

MVC40H PLATE COMPACTOR

1 to 5 units

Qty.	P/N	Description
3	.....070100282.....	V-BELT, RPF-3280
4	.....939010250.....	SHOCK ABSORBER

HONDA GX100UTVMA ENGINE

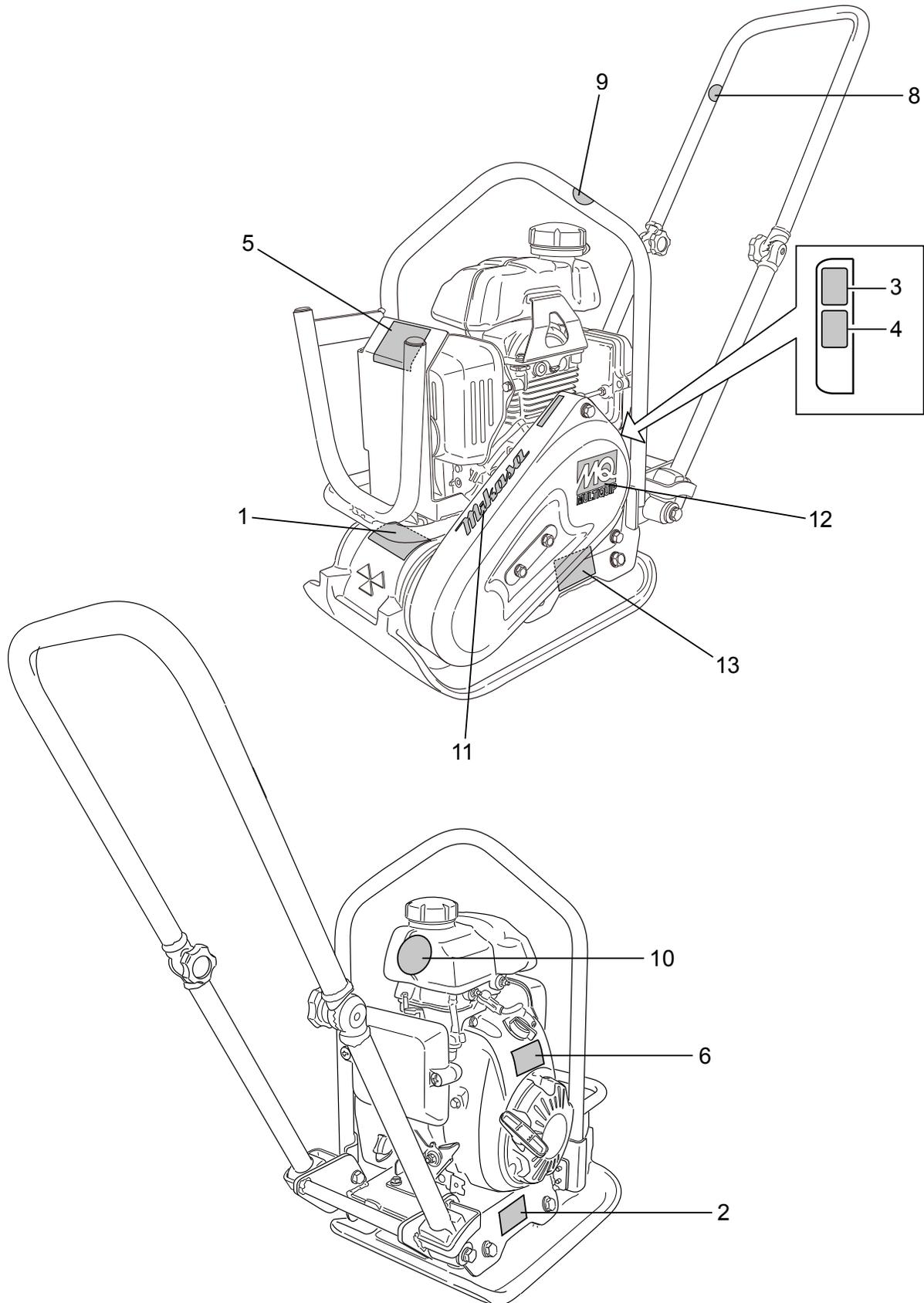
1 to 5 units

Qty.	P/N	Description
3	.....9805655777.....	SPARK PLUG
1	.....28462Z0DV03.....	ROPE, RECOIL STARTER
3	.....17211ZL8023	ELE, AIR CLEANER, PAPER
3	.....17218Z0D000.....	ELE, AIR CLEANER, FOAM
1	.....17620Z0J800.....	CAP, FUEL TANK
1	.....16952ZE6000	FUEL STRAINER, FUEL TANK

NOTICE

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

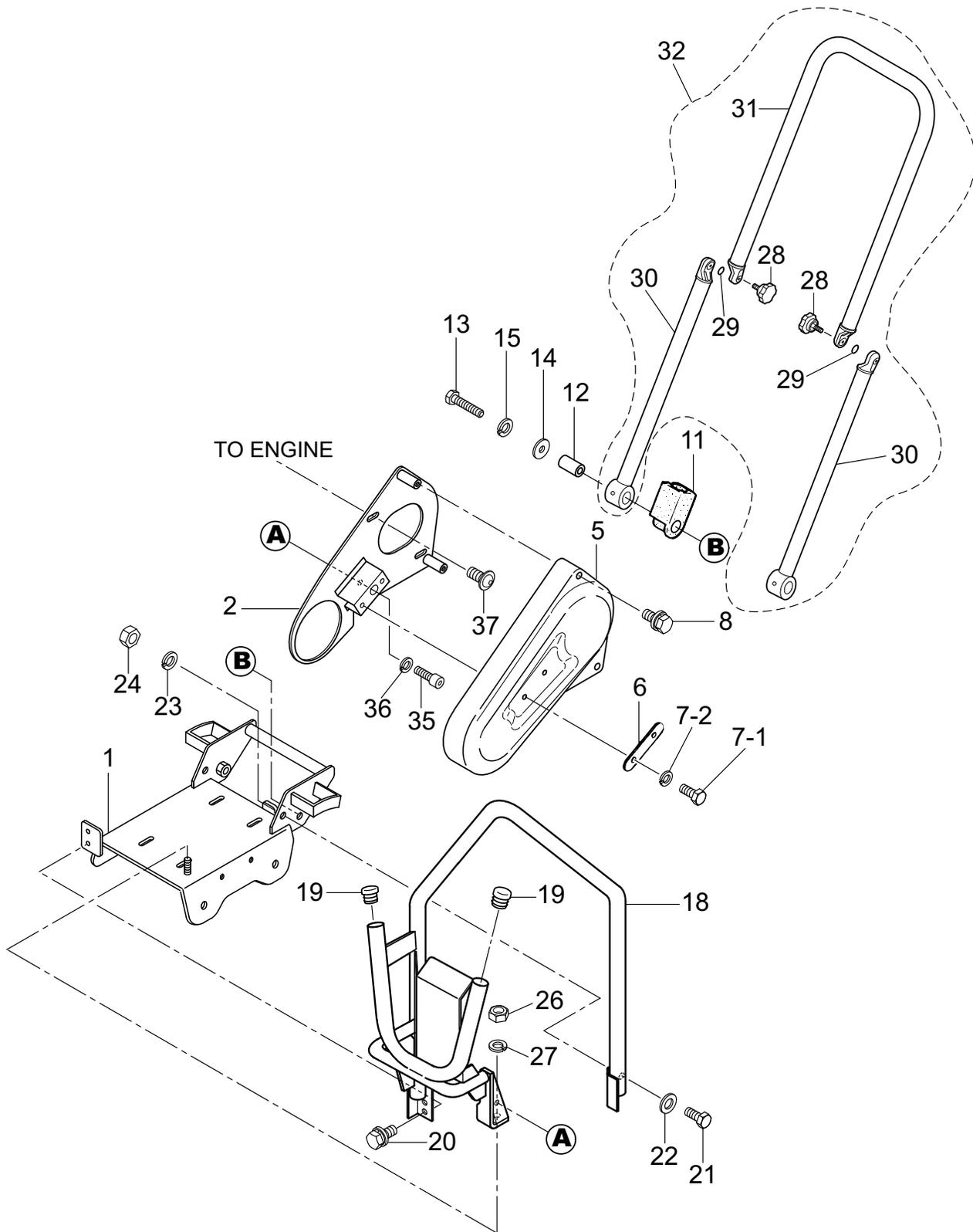
NAMEPLATES AND DECALS



NAMEPLATES AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	920218740T2	DECAL, CAUTION	1	
2	920218750T2	DECAL, CAUTION	1	
3	920218730T2	DECAL, CAUTION (MANUAL/EXP)	1	
4	920219450T2	DECAL, DANGER	1	
5	920218760T2	DECAL, FUEL CAUTION/MVC	1	
6	920218770	DECAL, E/G FIRE WARNING	1	
7	920221230	DECAL, V-BELT/RPF-3280	1	
8	920900090	DECAL, DO NOT LIFT	1.....	REPLACES P/N 920214730
9	920900090	DECAL, LIFTING POSITION	1.....	REPLACES P/N 920214740
10	920203330	EAR PROTECTION LABEL	1	
11	920109530	DECAL, MIKASA (125MM) YELLOW	1	
12	920220220	DECAL, MQ MARK 72X57	1	
13	920221790	PLATE, MODEL/SERIAL NUMBER.....	1.....	CONTACT PARTS DEPT.

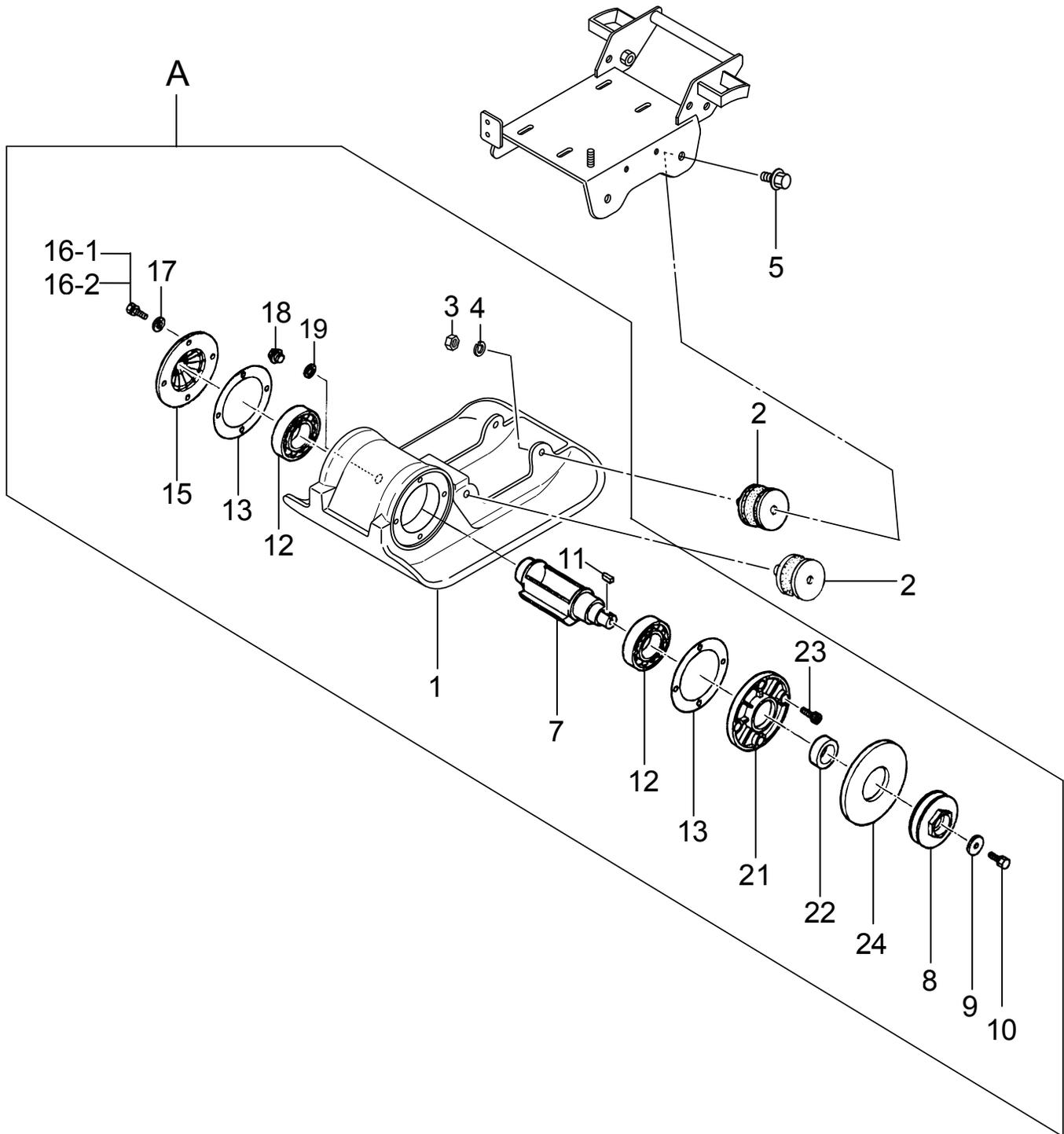
BASE AND HANDLE ASSY.



BASE AND HANDLE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	417122340	BASE	1	
2	417122360	BELT COVER (INNER)	1	
5	417122350	BELT COVER (OUTER)	1	
6	417466230	PLATE, BELT COVER	1	
7-1	014208020	BOLT 8X20.....	2	REPLACES P/N 001220820
7-2	030208200	WASHER, LOCK M8	2	
8	011808015	BOLT, 8X15 HEX HEAD ASSY.....	2	REPLACES P/N 002410815
11	417454410	HANDLE STOPPER	2	
12	417454420	COLLAR	2	
13	012210060	BOLT 10X60.....	2	REPLACES P/N 001221052
14	952401660	WASHER	2	
15	030210250	WASHER, LOCK M10	2	
18	417122380	GUARD HOOK	1	
19	959408080	CAP, PIPE	2	
20	002410820	BOLT, 8X20 HEX HEAD ASSY.	2	
21	0105091025	BOLT 10X25.....	1	REPLACES P/N 001221025
22	031110160	WASHER, FLAT M10	1	
23	030210250	WASHER, LOCK M10	1	
24	020310080	NUT M10	1	
26	020108060	NUT M8.....	1	REPLACES P/N 020308060
27	030208200	WASHER, LOCK M8	1	
28#	959406961	GRIP BOLT 45X10X30	2	
29#	050200080	O-RING	2	
30#	417352430	HANDLE (LOWER)	2	
31#	417355580	HANDLE (UPPER)	1	
32	417910150	FOLDING HANDLE COMPLETE	1	INCLUDES ITEMS W/#
35	096208010	SOCKET HEAD BOLT 8X12.....	1	REPLACES P/N 001520812
36	030208200	WASHER, LOCK M8	1	
37	009110102	SOCKET HEAD SCREW 8X16	2	

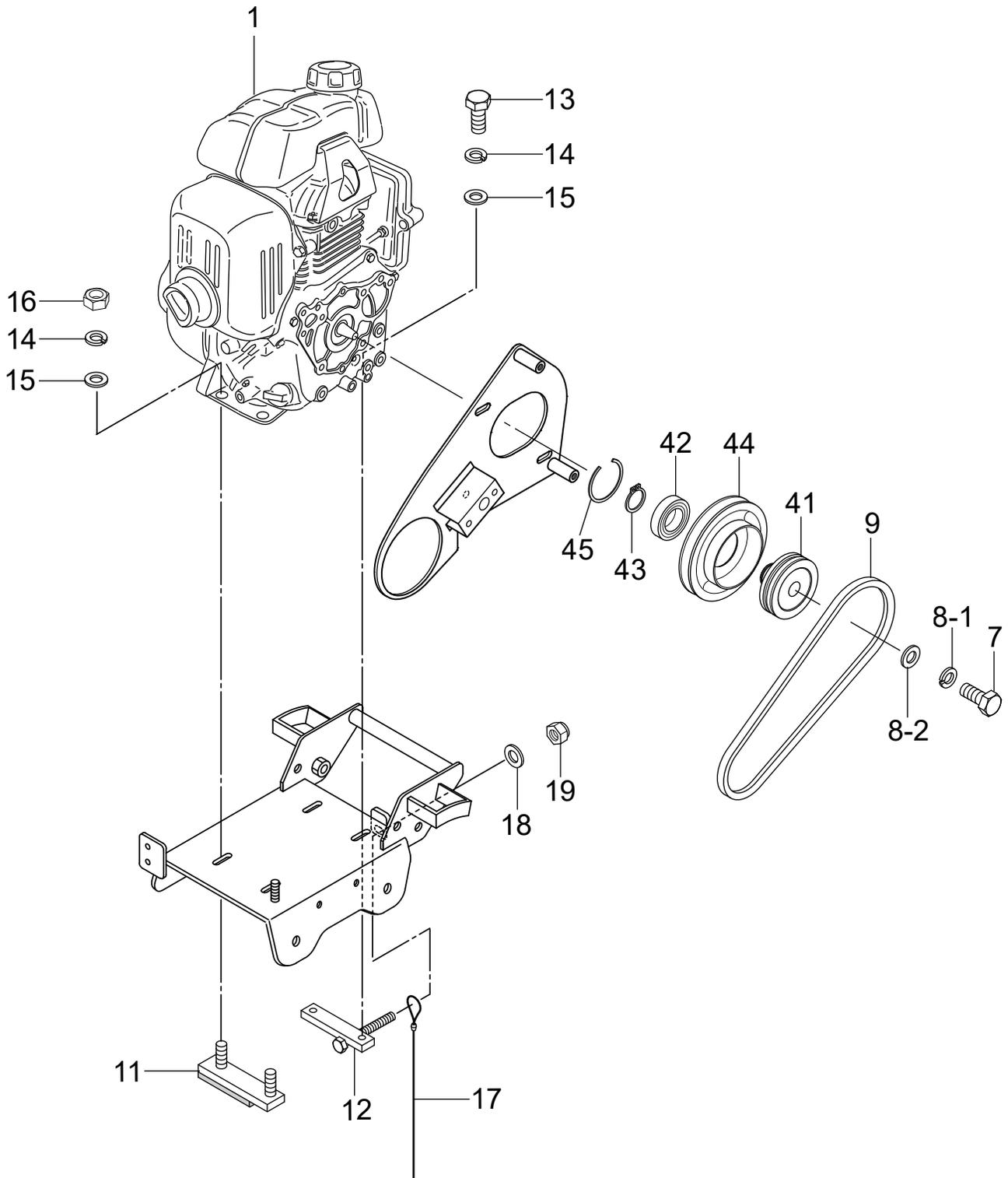
VIBRATING PLATE AND VIBRATOR ASSY.



VIBRATING PLATE AND VIBRATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	417910210	VIBRATING PLATE ASSY., COMPLETE	1.....	INCLUDES ITEMS W/#
1#	417122310	VIBRATING PLATE	1	
2	939010420	SHOCK ABSORBER D50X60X45H	4	
3#	020310080	NUT M10	4	
4#	030210250	WASHER, LOCK M10	4	
5	0105091025	BOLT 10X25 HEX HEAD ASSY.....	4.....	REPLACES P/N 002411025
7#	417218560	ECCENTRIC ROTATOR	1	
8#	417350430	PULLEY	1	
9#	952400130	WASHER 9304	1	
10#	011708025	BOLT 8X25 HEX HEAD ASSY.....	1.....	REPLACES P/N 002210825
11#	951405240	KEY 7X7X19 R	1	
12#	040406208	BEARING 6208C4	2	
13#	417454390	PACKING (VIB.)	2	
15#	417339899	CASE COVER (R)	1	
16-1#	014208020	BOLT 8X20.....	4.....	REPLACES P/N 001220820
16-2#	030208200	WASHER, LOCK M8	4	
17#	0401450080	WASHER, FLAT M8.....	4.....	REPLACES P/N 031108160
18#	953405270	PLUG 1/4X14 13L	1	
19#	953405260	PACKING 1/4	1	
21#	417339909	CASE COVER (L)	1	
22#	060403020	OIL SEAL	1	
23#	096208010	SOCKET HEAD BOLT 8X15.....	4.....	REPLACES P/N 001520815
24#	417339910	COVER SEAL (VIB.)	1	

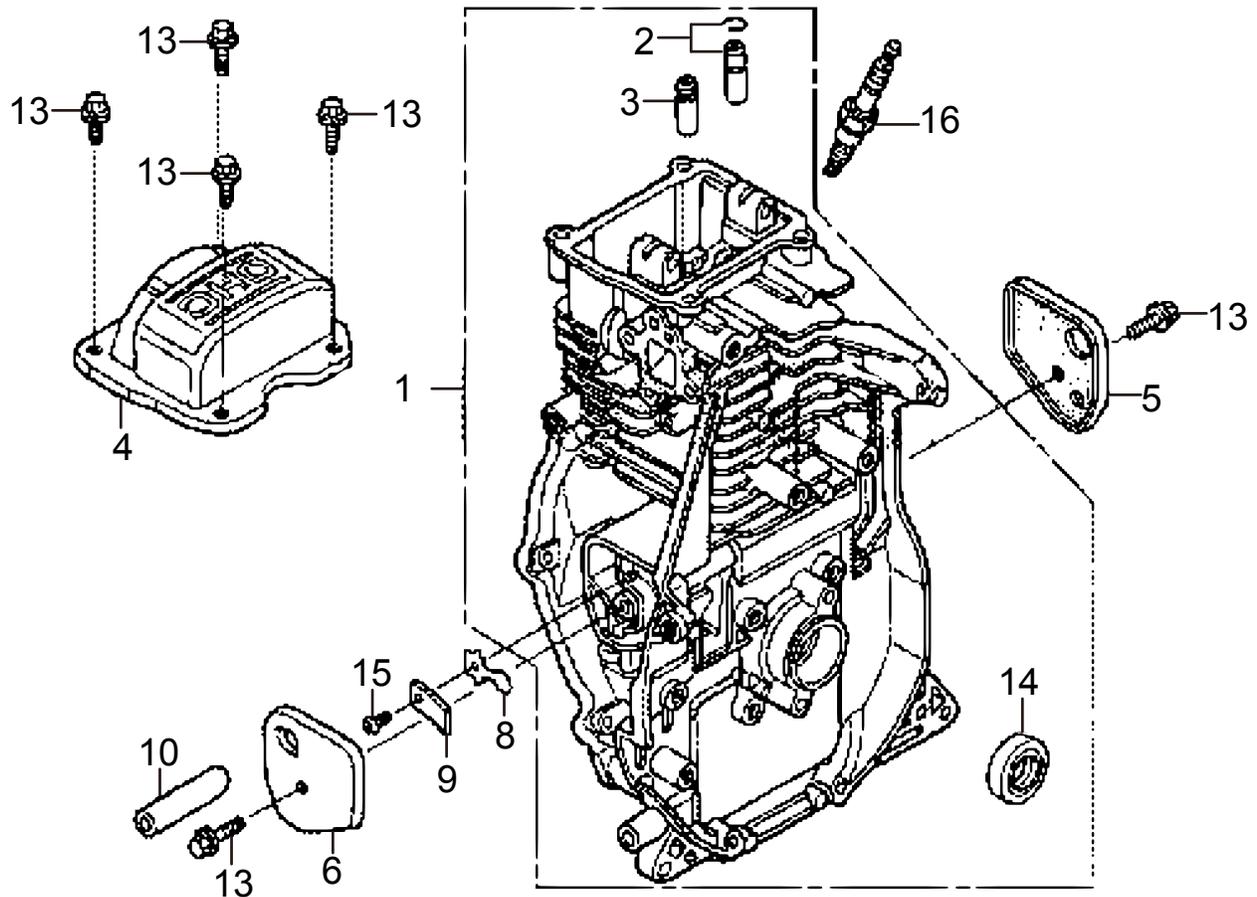
ENGINE ASSY.



ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	912210033	ENGINE ASSY. GX100UTVMA	1	
7	011208025	BOLT 8X25.....	1.....	REPLACES P/N 001220825
8-1	030208200	WASHER, LOCK M8	1	
8-2	031108200	WASHER, FLAT M8	1	
9	070100282	V-BELT, RPF-3280	1	
11	417470980	PLATE, BOLT WITH RUBBER	1	
12	417471110	ENGINE NUT, REAR	1	
13	014208020	BOLT 8X20.....	2.....	REPLACES P/N 001220820
14	030208200	WASHER, LOCK M8	4	
15	0401450080	WASHER, FLAT M8.....	4.....	REPLACES P/N 031108160
16	020108060	NUT M8	2.....	REPLACES P/N 020308060
17	959404350	EARTH WIRE	1	
18	0401450080	WASHER, FLAT M8.....	1.....	REPLACES P/N 031108160
19	022710809	NYLON NUT M8	1	
41	417355080	CLUTCH SHOE AND BOSS ASSY.	1	
42	042006006	BEARING.....	1.....	REPLACES P/N 044006006
43	080200300	STOP RING		
44	417470990	CLUTCH DRUM	1	
45	080600550	STOP RING	1	

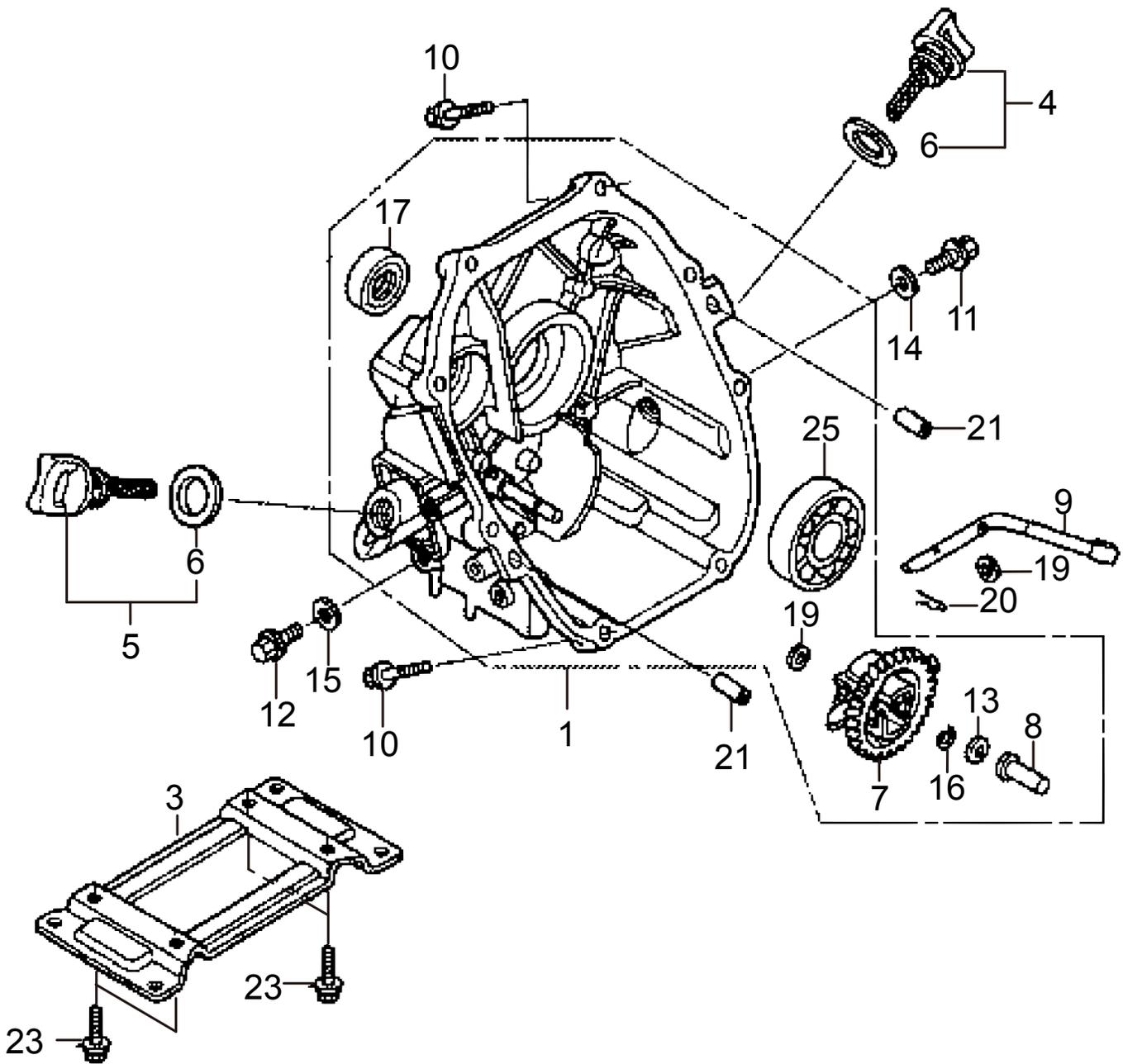
HONDA GX100UTVMA ENGINE — CYLINDER BARREL ASSY.



HONDA GX100UTVMA ENGINE — CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12000Z0D405	BARREL ASSY., CYLINDER	1.....	INCLUDES ITEMS W/\$
2\$	12201Z0D305	GUIDE ASSY., EXHAUST VALVE (OS)	1	
3\$	12204Z0D305	GUIDE, INLET VALVE (O.S.)	1	
4	12311Z0D000	COVER, HEAD	1	
5	12355Z0D000	COVER COMPLETE A, BREATHER	1	
6	12365Z0D000	COVER COMPLETE B, BREATHER	1	
8	15571ZM7003	VALVE, OIL OUTLET	1	
9	15572ZM7000	PLATE, STOPPER	1	
10	15721Z0D000	TUBE, BREATHER	1	
13	90014952000	BOLT, FLANGE 6X14	6	
14\$	91202KJ9003	OIL SEAL 20X32X6	1	
15	93500030050A	SCREW, PAN 3X5	1	
16	9805655777	SPARK PLUG	1	

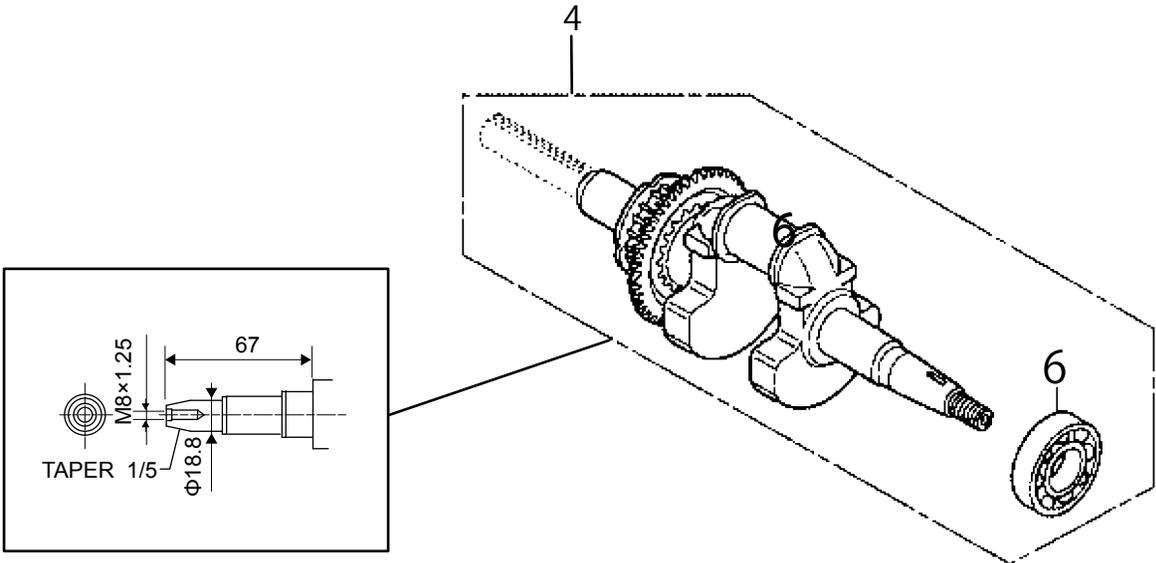
HONDA GX100UTVMA ENGINE — CRANKCASE COVER ASSY.



HONDA GX100UTVMA ENGINE — CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11300Z0D405	COVER ASSY., CRANK CASE.....	1.....	INCLUDES ITEMS W/#
3	12351Z0DT00	CRADLE, ENGINE	1	
4	15600ZDF000	CAP ASSY., OIL FILLER	1.....	INCLUDES ITEMS W/\$
5	15600ZDF000	CAP ASSY., OIL FILLER	1.....	INCLUDES ITEMS W/@
6\$@	15625Z0T800	PACKING, OIL FILLER CAP	2	
7#	16510ZL8000	GOVERNOR ASSY.	1	
8#	16531ZE1000	SLIDER, GOVERNOR	1	
9	16541Z0D000	SHAFT, GOVERNOR ARM	1	
10	957010602500	FLANGE BOLT 6X25	8.....	REPLACES P/N 90121952000
11	90131ZE1000	BOLT, DRAIN PLUG	1	
12	90131ZE1000	BOLT, DRAIN PLUG	1	
13#	90451ZE1000	THRUST WASHER 6MM	1	
14	90601ZE1000	WASHER, DRAIN PLUG	1	
15	90601ZE1000	WASHER, DRAIN PLUG	1	
16#	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
17#	91202KJ9003	OIL SEAL 20X32X6	1	
19	58176	WASHER, FLAT 6MM.....	2.....	REPLACES P/N 9410106800
20	9425108000	LOCK PIN 8MM	1	
21	9430108200	KNOCK PIN 8X20	2	
23	957010801800	FLANGE, BOLT 8X18	4	
25#	961006204000	BEARING, RADIAL BALL	1	

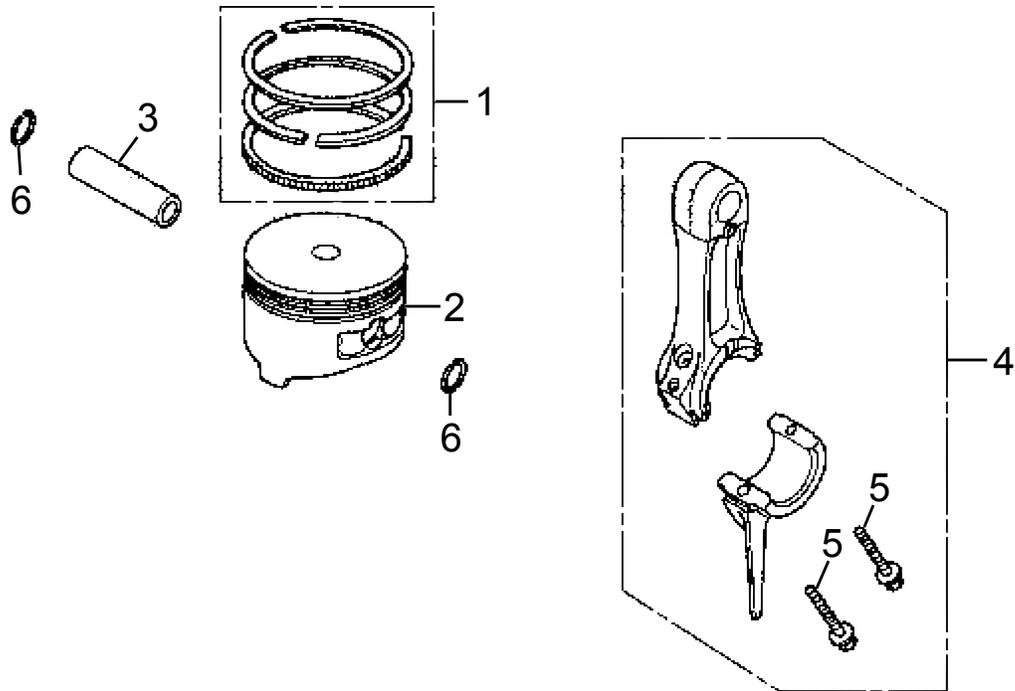
HONDA GX100UTVMA ENGINE — CRANKSHAFT ASSY.



HONDA GX100UTVMA ENGINE — CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
4	13310Z0DV70	CRANKSHAFT COMPLETE.....	1.....	INCLUDES ITEM W/\$
6\$	91001Z0DV01	BEARING, RADIAL BALL	1	

HONDA GX100UTVMA ENGINE — PIST. AND CONN. ROD ASSY.



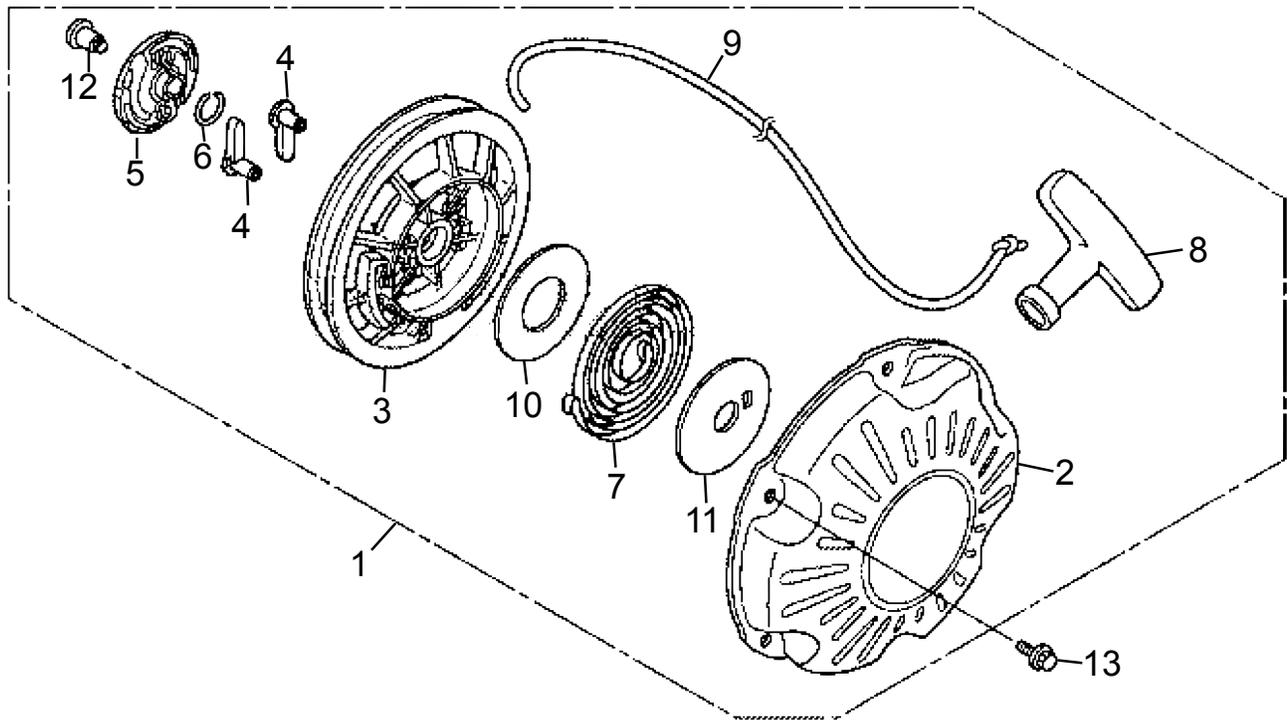
HONDA GX100UTVMA ENGINE — PIST. AND CONN. ROD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010Z0D003	RING SET, PISTON	1	
2	13101ZDD000	PISTON	1	
3	13111ZE0000	PISTON PIN	1	
4	13200Z0D000	CONNECTING ROD ASSY.....	1.....	INCLUDES ITEM W/#
4	13200Z0D305	CONNECTING ROD ASSY (UNDER)	1.....	INCLUDES ITEM W/\$
5#\$	90001ZM7000	CONNECTING ROD BOLT	2	
6	90551ZE0000	CLIP, PISTON PIN 13MM	2	

HONDA GX100UTVMA ENGINE — CAMSHAFT PULLEY ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12209KT7013	SEAL, VALVE STEM	1	
2	14320ZDD000	PULLEY COMP., CAMSHAFT/RTE	1	
3	14324Z0D000	SHAFT, CAM PULLEY	1	
4	14400Z0D003	TIMING BELT	1	
5	14431ZDD000	ROCKER ARM, INTAKE VALVE	1	
6	14441ZDD000	ROCKER ARM, EXHAUST VALVE	1	
7	14461ZL8000	SHAFT, ROCKER ARM	2	
8	14711Z0D000	INLET VALVE	1	
9	14721Z0D000	EXHAUST VALVE	1	
10	14751Z0D000	SPRING, VALVE	2	
11	14771ZM3010	RETAINER, VALVE SPRING	2	
12	90012333000	SCREW, TAPPET ADJUSTING	2	
13	90206001000	NUT, TAPPET ADJUSTING	2	
14	91301ZM0V31	O-RING 6.8X1.9	1	

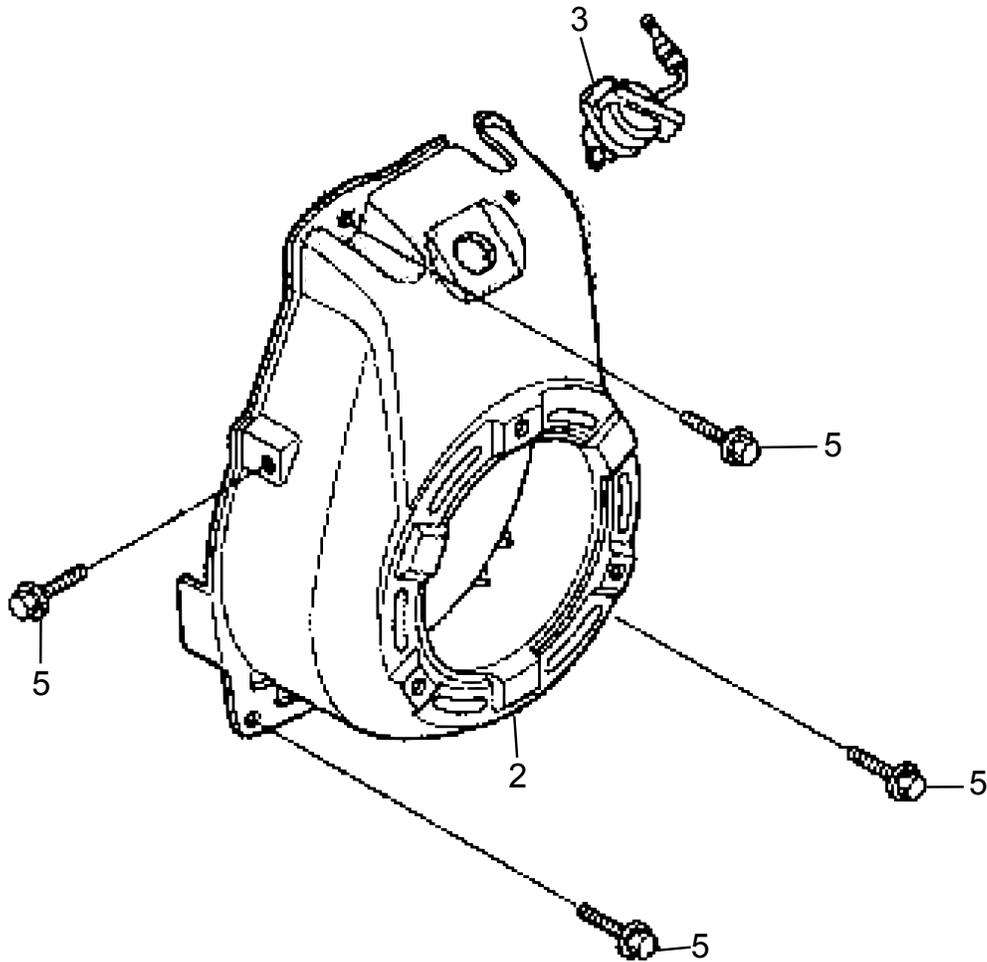
HONDA GX100UTVMA ENGINE — RECOIL STARTER ASSY.



HONDA GX100UTVMA ENGINE — RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400Z0DV04ZA	RECOIL STARTER ASSY.	1.....	INCLUDES ITEMS W/\$
2\$	28410Z0DV02ZA	CASE COMPLETE/RECOIL	1	
3\$	28421ZDD003	REEL, RECOIL STARTER	1	
4\$	28422ZG0W02	RATCHET, STARTER	2	
5\$	28433ZG0W02	GUIDE, RATCHET	1	
6\$	28441ZW9003	SPRING, FRICTION	1.....	REPLACES P/N 28441ZW6003
7\$	28442ZH8003	SPRING, RECOIL STARTER	1	
8\$	28461ZDD003	KNOB, RECOIL STARTER	1	
9\$	28462Z0DV03	ROPE, RECOIL STARTER	1	
10\$	28467Z0DV02	PLATE, SIDE	1	
11\$	28468Z0DV02	PLATE, SLIDE	1	
12\$	90003ZH8003	SET SCREW	1	
13	957010600800	FLANGE BOLT 6X8	3	

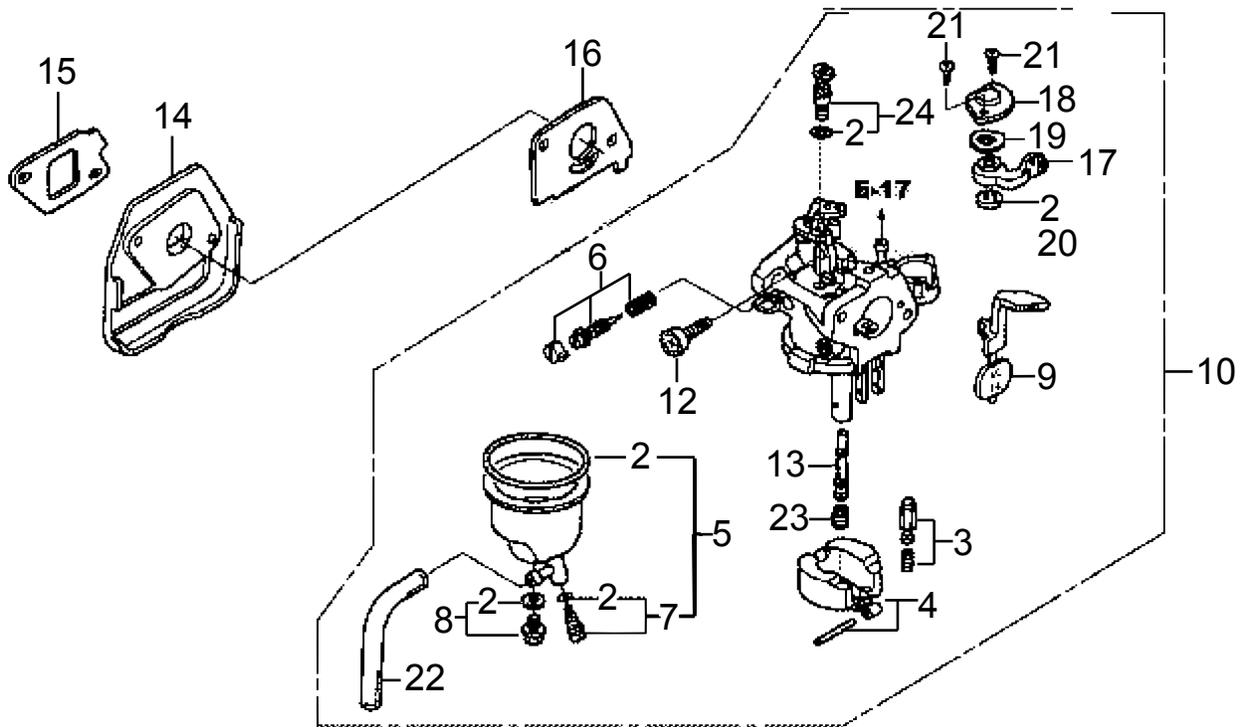
HONDA GX100UTVMA ENGINE — FAN COVER ASSY.



HONDA GX100UTVMA ENGINE — FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	19610Z0DV00ZB	FAN COVER COMPLETE, BLACK	1	
3	35120Z0DV81	SWITCH ASSY., ENGINE STOP	1	
5	90014952000	BOLT, FLANGE 6X14	4	

HONDA GX100UTVMA ENGINE — CARBURETOR ASSY.

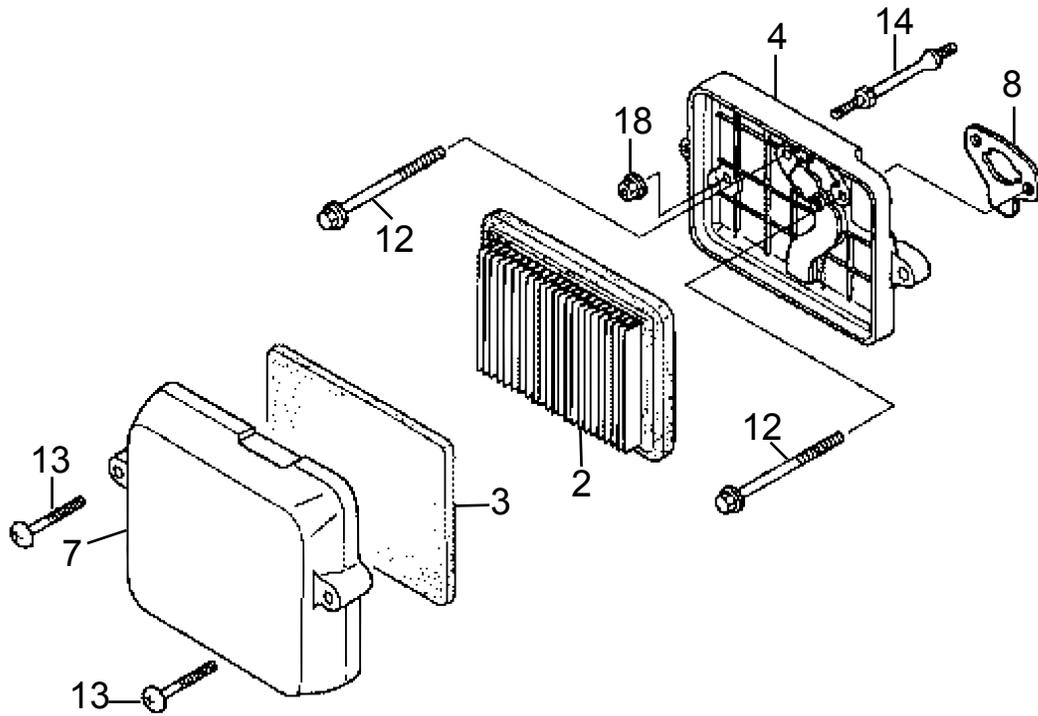


NOTICE
Gasket set, item 2 included with items 5, 7, 8, 20 and 24.

HONDA GX100UTVMA ENGINE — CARBURETOR ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
2\$#	16010ZM7003	GASKET SET	1	
3\$	16011ZE0005	FLOAT VALVE SET	1	
4\$	16013ZG0811	FLOAT SET	1	
5\$	16015ZM7003	FLOAT CHAMBER SET	1.....	INCLUDES ITEMS W/#
6\$	16016ZH7W01	SCREW SET, PILOT	1	
7\$	16024ZB9005	DRAIN SCREW SET	1.....	INCLUDES ITEMS W/#
8\$	16028ZG0811	SCREW SET	1.....	INCLUDES ITEMS W/#
9\$	16044Z4E003	CHOKE SET	1	
10	16100Z4E033	CARBURETOR ASSY.....	1.....	INCLUDES ITEMS W/\$
12\$	16124ZE0005	SCREW, THROTTLE STOP	1	
13\$	16166Z4E003	MAIN NOZZLE	1	
14	16211Z0D010	INSULATOR, CARBURETOR	1	
15	16212Z0D000	PACKING, INSULATOR	1	
16	16221ZG0801	PACKING, CARBURETOR	1	
17\$	16953Z0D003	LEVER, COCK	1	
18\$	16954ZE1812	PLATE, LEVER SETTING	1	
19\$	16956ZE1811	SPRING, COCK LEVER	1	
20\$	16957ZE1812	PACKING, FUEL COCK	1.....	INCLUDES ITEMS W/#
21\$	93500030060H	SCREW 3X6	2	
22\$	950030500160M	TUBE, VINYL 3.5X6.5X1M	1	
23\$	99101ZG0062	JET, MAIN	1	
24\$	99204ZE2040	PILOT JET SET #35	1.....	INCLUDES ITEMS W/#

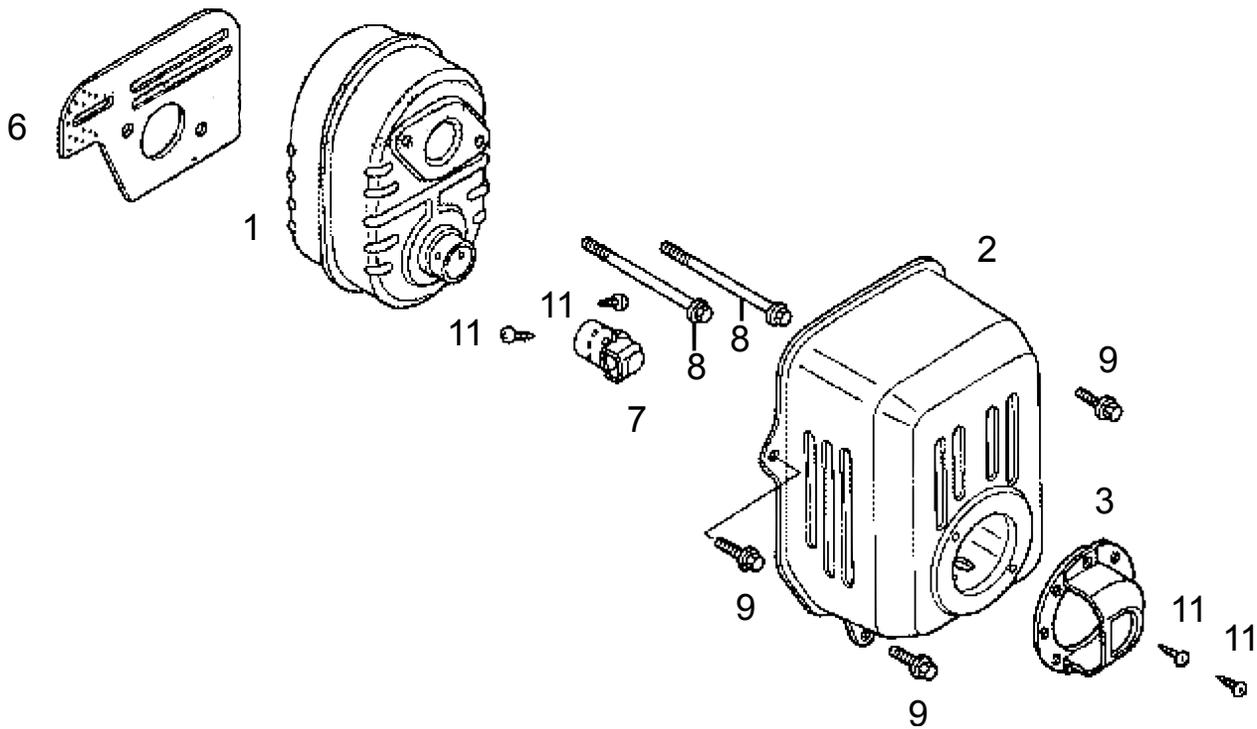
HONDA GX100UTVMA ENGINE — AIR CLEANER ASSY.



HONDA GX100UTVMA ENGINE — AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	17211ZL8023	AIR CLEANER, ELEMENT, PAPER	1	
3	17218Z0D000	AIR CLEANER, ELEMENT, FOAM	1	
4	17220Z0DV22	CASE COMPLETE, AIR CLEANER	1	
7	17231Z0DV62	COVER, AIR CLEANER	1	
8	17274ZT3000	PACKING, AIR CLEANER	1	
12	90004Z0D000	BOLT, FLANGE 5X77	2	
13	90011Z0D000	BOLT, AIR CLEANER COVER	2	
14	90041Z0DV20	STUD BOLT	1	
18	9405006000	FLANGE NUT 6MM	1	

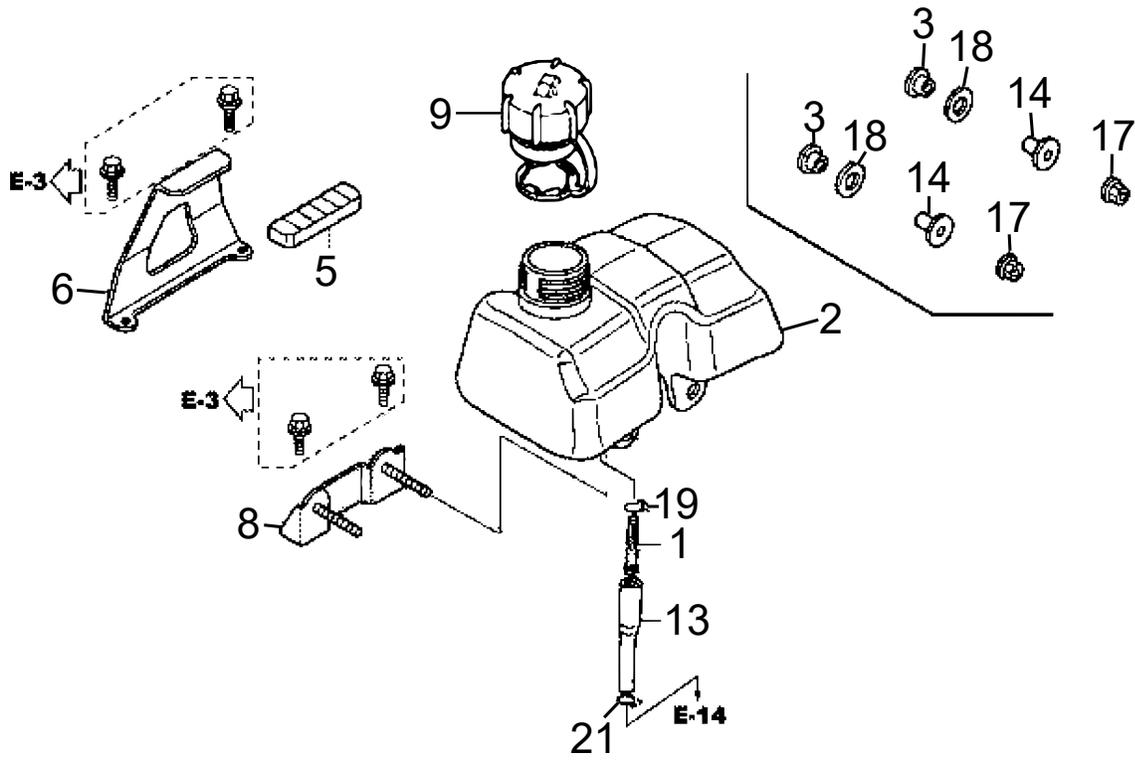
HONDA GX100UTVMA ENGINE — MUFFLER ASSY.



HONDA GX100UTVMA ENGINE — MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18310ZM0010	MUFFLER COMPLETE	1	
2	18320ZOM781	MUFFLER PROTECTOR	1	
3	18348ZL8000	CAP, MUFFLER	1	
6	18381Z0D000	GASKET, MUFFLER	1	
7	18430ZL8000	DEFLECTOR COMP., MUFFLER	1	
8	90004ZL8000	BOLT, FLANGE 6X79	2	
9	90014952000	BOLT, FLANGE 6X14	3	
11	90055ZE1000	TAPPING SCREW 4X6	4	

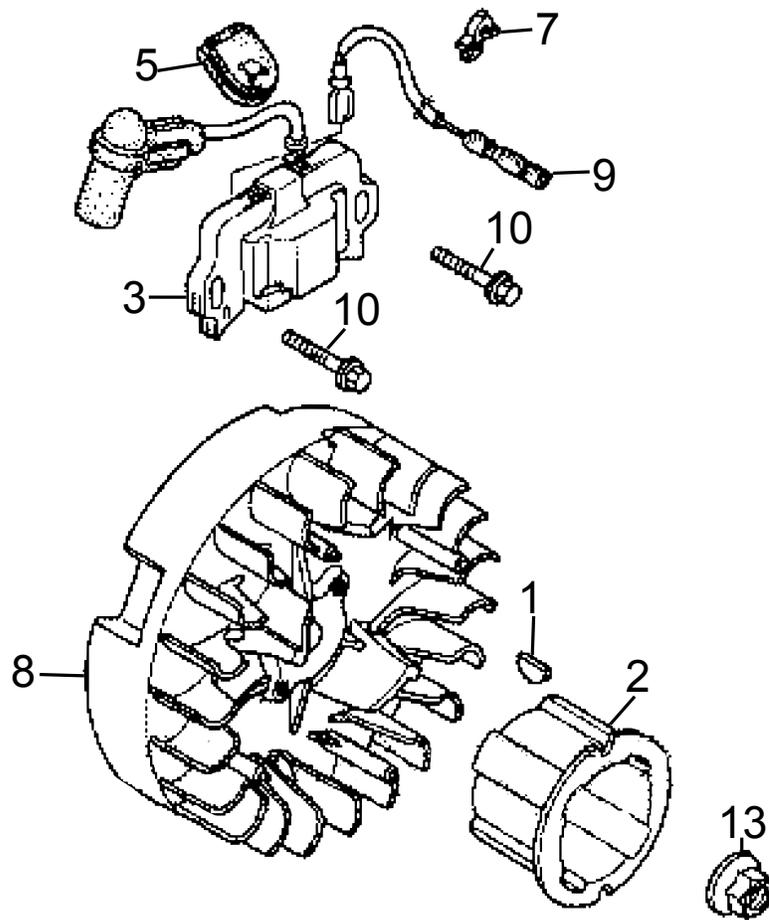
HONDA GX100UTVMA ENGINE — FUEL TANK ASSY.



HONDA GX100UTVMA ENGINE — FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16952ZE6000	STRAINER, FUEL	1	
2	17511Z4C810	TANK, FUEL	1	
3	17532Z0DT00	RUBBER A, TANK MOUNTING	2	
5	17533Z0DT00	RUBBER B, TANK MOUNTING	1	
6	17561Z0D000	STAY A, FUEL TANK	1	
8	17566Z0DT02	STAY B, FUEL TANK	1	
9	17620Z0J800	FUEL TANK CAP COMPLETE	1	
13	17701Z4E023	TUBE, FUEL	1	
14	19052MB4880	COLLAR, CANISTER MOUNTING	2	
17	90343ZE6000	NUT, SELF-LOCK 6MM	2	
18	90510KY1000	WASHER, FLAT 15MM	2	
19	950024105008	CLIP, TUBE	1	
21	950024080008	CLIP, TUBE	1	

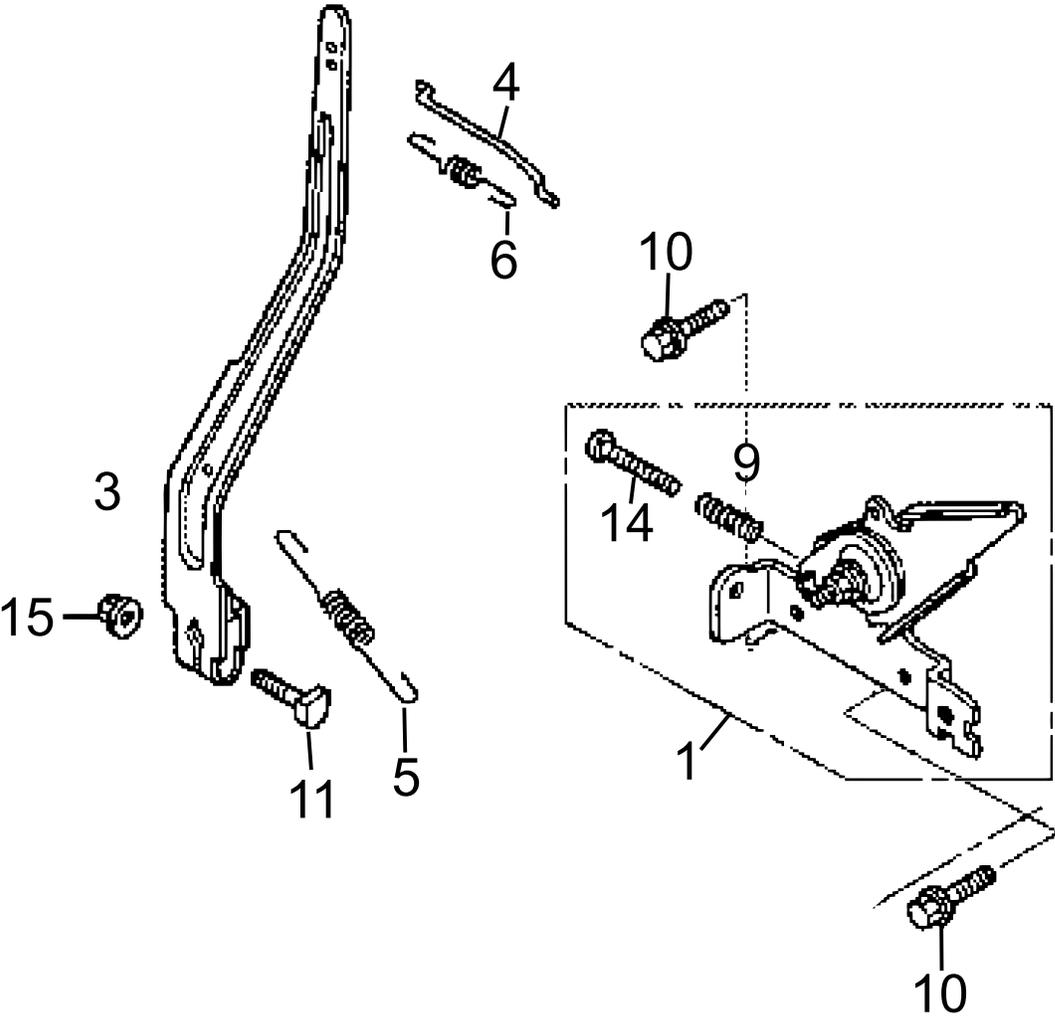
HONDA GX100UTVMA ENG. — FLYWHEEL/IGN. COIL ASSY.



HONDA GX100UTVMA ENG. — FLYWHEEL/IGN. COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13331ZM7000	WOODRUFF KEY 25X18	1	
2	28451Z0DV03	STARTER PULLEY	1	
3	30500Z0D023	IGNITION COIL ASSY.	1	
5	30564ZA5000	GROMMET, CORD	1	
7	30701883000	CLIP, HIGH TENSION CORD	1	
8	31110Z0D003	FLYWHEEL COMPLETE	1	
9	32195Z0D000	CORD, STOP SWITCH	1	
10	90022888010	FLANGE BOLT 6X20	2	
13	9405012000	FLANGE NUT M12	1	

HONDA GX100UTVMA ENGINE — CONTROL ASSY.



HONDA GX100UTVMA ENGINE — CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16500Z0DT00	CONTROL ASSY.....	1.....	INCLUDES ITEMS W/\$
3	16551Z0D010	GOVERNOR ARM	1	
4	16555Z0D000	GOVERNOR ROD	1	
5	16561Z0D000	GOVERNOR SPRING	1	
6	16562Z0D000	SPRING, THROTTLE	1	
9\$	16584883300	ADJUSTING SPRING	1	
10	90014952000	BOLT, FLANGE 6X14	2	
11	90015Z5T000	BOLT, GOVERNOR ARM	1	
14\$	93500050250A	SCREW, PAN HD 5X25	1	
15	9405006000	FLANGE NUT 6MM	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:

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. 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.
 - a. The parts numbers and descriptions must match the current parts price list.
 - b. 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.
 - e. 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.
4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.

5. 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:
 - a. Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
 - b. 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.
 - c. 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.
8. 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.
9. 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

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
Contact: mq@multiquip.com

Tel. (800) 421-1244
Fax (310) 537-3927

MQ Parts Department

800-427-1244
310-537-3700

Fax: 800-672-7877

Service Department

800-421-1244
310-537-3700

Warranty Department

800-421-1244
310-537-3700

Fax: 310-943-2249

Technical Assistance

800-478-1244

Fax: 310-943-2238

CANADA

Multiquip

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

Tel: (450) 625-2244
Tel: (877) 963-4411
Fax: (450) 625-8664

UNITED KINGDOM

Multiquip (UK) Limited Head Office

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

Tel: 0161 339 2223
Fax: 0161 339 3226

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This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

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