

OPERATION AND PARTS MANUAL



Mikasa SERIES
MODEL MVH406GH
REVERSIBLE PLATE COMPACTOR
(HONDA GX390U1SMX2 GASOLINE ENGINE)

Revision #3 (02/04/14)



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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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MIKASA MVH406GH REVERSIBLE PLATE COMPACTOR

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Specifications and part numbers are subject to change without notice.

MVH-406GH — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

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.



This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of the Multiquip MVH-406GH Plate Compactor. Refer to the engine manufacturer's instructions for data relative to its safe operation.

Before using this plate compactor, ensure that the operating individual has read and understands all instructions in this manual.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) 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 three words: **DANGER**, **WARNING**, or **CAUTION**.

DANGER

You **WILL** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.

WARNING

You **CAN** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.

CAUTION

You **CAN** be **INJURED** if you **DO NOT** follow directions.

Potential hazards associated with the operation of this equipment will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

HAZARD SYMBOLS

WARNING - Lethal Exhaust Gasses

Engine exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled. **NEVER** operate this equipment in a confined area or enclosed structure that does not provide ample free flow air.



WARNING - Explosive Fuel

Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids.



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 approved containers, in well-ventilated areas and away from sparks and flames.

WARNING - Burn Hazards

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



CAUTION - Respiratory Hazard

ALWAYS wear approved **respiratory** protection when required.



MVH-406GH — SAFETY MESSAGE ALERT SYMBOLS

! CAUTION - Rotating Parts

NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

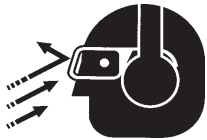


! CAUTION - Accidental Starting

ALWAYS place the engine **ON/OFF** switch in the **OFF** position, when equipment is not in use.



! CAUTION - Sight and Hearing Hazards

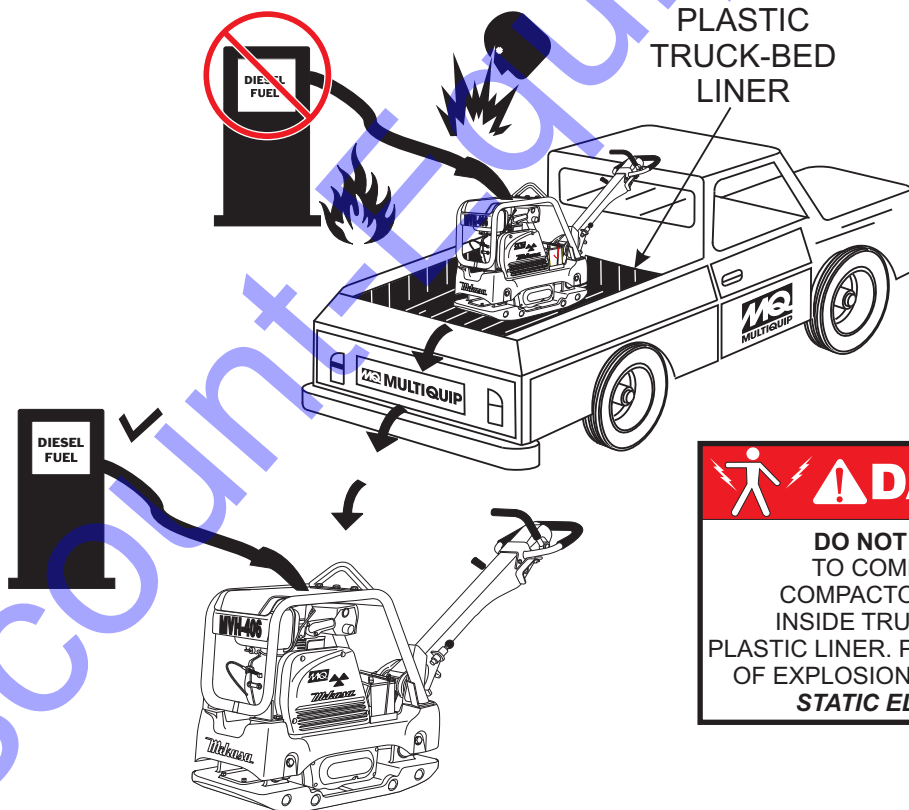


ALWAYS wear approved eye and hearing protection.

! CAUTION - Equipment Damage Messages

Other important messages are provided throughout this manual to help prevent damage to your light tower, other property, or the surrounding environment.

This equipment, other property, or the surrounding environment could be damaged if you do not follow instructions.



! DANGER

DO NOT ADD FUEL TO COMPACTOR IF COMPACTOR IS PLACED INSIDE TRUCK-BED WITH PLASTIC LINER. POSSIBILITY EXISTS OF EXPLOSION OR FIRE DUE TO STATIC ELECTRICITY.

MVH-406GH — RULES FOR SAFE OPERATION

WARNING - Read This Manual

Failure to follow instructions in this manual may lead to **Serious Injury** or even **Death**. This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating this equipment.

Safety:

- **DO NOT** operate or service this equipment before reading this entire manual.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.

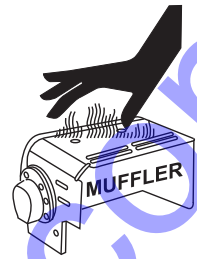


- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate the saw under the influence of drugs or alcohol.



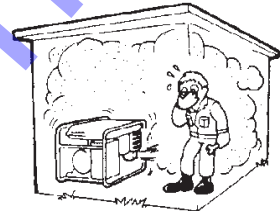
- **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- **ALWAYS** check all the bolts on the light tower for tightness.
- **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.

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



- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot* components can cause serious burns.

- The engine of this reversible plate compactor requires an adequate free flow of cooling air. **NEVER** operate the reversible plate compactor in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the reversible plate compactor or engine and may cause injury to people and property. Remember the vibration roller's engine gives off **DEADLY** gases.



- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with **flammable** liquids. When refueling, **stop the engine** and allow it to cool. **DO NOT smoke** around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.
- **NEVER** operate the reversible plate compactor in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe *bodily harm or even death*.
- Topping-off to filler port is dangerous, as it tends to spill fuel.
- **ALWAYS** store the reversible plate compactor in a clean, dry location out of the reach of children.
- **NEVER** run engine without air cleaner. Severe engine damage may occur.
- **NEVER** leave the reversible plate compactor unattended, turn off engine.
- **CAUTION** must always be observed while servicing this reversible plate compactor. Rotating parts can cause injury if contacted.
- **DO NOT** leave reversible plate compactor with engine running.



MVH-406GH — RULES FOR SAFE OPERATION

- **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.

Transporting

- Always shutdown engine before transporting.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Drain fuel when transporting compactor over long distances or bad roads.
- Always tie-down the compactor during transportation by securing the compactor's guard frame with an appropriate tie-down.

Loading and Unloading

- Before lifting, make sure that machine parts (hook and vibration insulator) are not damaged and screws are not loosened or lost.
- **ALWAYS** make sure crane or lifting device has been properly secured to the lifting bale of compactor.
- **NEVER** lift the machine while the engine is running.
- Use a reliable chain, cable or strap of adequate lifting capacity.
- **NEVER** allow any person or animal to stand underneath the machine while lifting.
- Use a crane with a one point suspension hook and lift straight upwards or forklift to load and unload the compactor. A skilled crane operator is required to perform the job.
- **ALWAYS** use the lifting bale (Figure 1) on the machine when lifting is required. **DO NOT** use any other part of the machine for lifting.
- **ALWAYS** lift the machine vertically.
- Try not to lift machine to unnecessary heights.



Figure 18. Lifting the Compactor

Emergencies

- **ALWAYS** know the location of the nearest *fire extinguisher*.
- **ALWAYS** know the location of the nearest and *first aid kit*.
- In emergencies *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.



Maintenance Safety

- **NEVER** lubricate components or attempt service on a running machine.
- **ALWAYS** allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts.
- 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.

MVH-406GH — OPERATION AND SAFETY DECALS

Figure 2 displays the operation and safety decals as they appear on the reversible plate compactor. Should any of these decals become damaged or unreadable, contact the Multiquip Parts Department for a replacement set.



P/N 920203330

MVH-406

P/N 920211640

Shell Tellus Oil
32

P/N 920211090



P/N 920201580



P/N 920201950



P/N 920205040



P/N 920211060



P/N 920204580

DANGER FUEL	DANGER FUEL	DANGER LIFTING	DANGER LIFTING
Fire Risk	Operate only in well-ventilated area	Do not stand next to machine while lifting	Do not use machine handle
WARNING NOISE	WARNING HOT TEMP.	WARNING TRANSPORT	CAUTION READ
Wear eye protection	Operate only in well-ventilated area	Do not touch moving parts in operation	Read operator's manual carefully before use

OPERATIONAL CAUTION

Prior to OPERATION, check the engine oil and fuel levels. If not enough, add to proper levels.

Warm up engine at low speed for 3-5 minutes.

Operate machine at full throttle speed. (incorrect clutch engagement causes clutch to burn.)

Use travel lever for forward & reverse motion. Do not push or pull travel lever strongly.

NPA-962 (J)

P/N: 920209620

Mikasa

Serial No.

Model No.

MQ MULTIQUIP

CONTACT
MQ PARTS DEPT.

Figure 2. Operation and Safety Decals

Table 1. MVH-406GH Reversible Plate Compactor Specifications

Centrifugal Force	12,346 lbs. (5,600 kg)
Vibration Frequency	4,600 vpm (76.5 Hz)
Traveling Speed	0 to 76 ft/min (0 to 24 m/min)
Plate Size (L x W)	35.43 x 19.69 in (90 x 50 cm)
Plate Size with extension plates (L x W)	35.43 x 25.59 in (90 x 65 cm)
Max. Area of Compaction (no extensions)	7,510 sq. ft. (2,289 sq. meters)
Length (handle in working position)	63.39 in (1610 mm)
Height (handle in working position)	41.34 in (1050 mm)
Length (handle in vertical position)	37.6 in (955 mm)
Height (handle in vertical position)	55.12 in (1400 mm)
Operating Weight (without extension plates)	782 lbs. (380 kg)
Operating Weight (with extension plates)	868 lbs. (395 kg)

Table 2. Engine Specifications

Engine Make	HONDA GX390U1SMX2
Engine Type	4-Stroke, Single Cylinder, OHV, Gasoline Engine
Cylinder Bore X Stroke	3.5 x 2.5 in (88 x 64 mm)
Displacement	23.8 cu in (390 cm ³)
Maximum Output	13.0 HP @3,600 RPM (9.6 kw @3600 RPM)
Fuel Tank Capacity	1.72 gallons (6.5 liters)
Oil Capacity	1.16 quartz (1.1 liters)
Speed Control Method	Centrifugal Flyweight Type
Starting Method	Recoil Start
Dry Net Weight	68.2 lbs. (31 kg)
Dimensions (L x W x H)	15.0 x 17.7 x 17.4 in (380 x 450 x 443 mm)

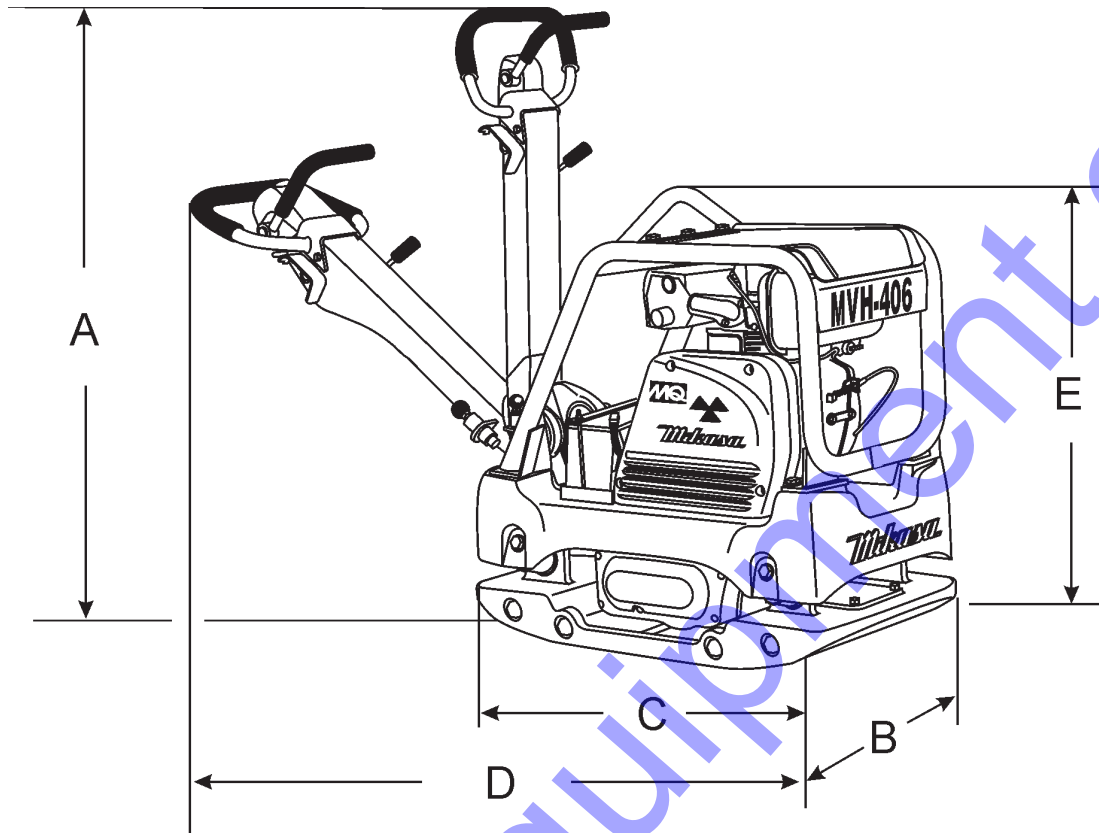


Figure 3. MVH-406GH Reversible Plate Compactor Dimensions

TABLE 3. DIMENSIONS

REF.	DIMENSIONS
A	55.12 in. (140 cm.)
B	19.69 in. (50 cm.)
C	35.3 in. (90 cm.)
D	63.39 in. (161 cm.)
E	41.34 in. (105 cm.)

Plate Compactor

The Mikasa MVH-406GH is a walk behind, reversible plate compactor designed for the compaction of sand, clay and asphalt. This plate compactor is a powerful compacting tool capable of applying a tremendous force in consecutive high frequency vibrations to a soil surface. Its applications include soil compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

Vibratory Plates

The vibratory plates of the MVH-406GH produce low amplitude high frequency vibrations, designed to compact granular soils.

The resulting vibrations cause forward motion. The engine and handle are vibration isolated from the vibrating plate. The heavier the plate, the more compaction force it generates.

Reversible Vibratory Plates

Reversible vibratory plates have two eccentric weights that allow a smooth transition for forward and reverse travel, plus increased compaction force as the result of dual weights.

Due to their weight and force, reversible plates are ideal for semi-cohesive soils.

Frequency/Speed

The compactor's vibrating plate maximum frequency is 4600 vpm (vibrations per minute). The forward and reverse travel speed of the compactor is approximately 76 ft./minute (24 meters/minute).

Engine

The Mikasa MVH-406GH Plate Compactor is equipped with a HONDA GX390U1SMX2 engine.

Controls

Before starting the MVH-406GH Plate Compactor, identify and understand the function of the controls and components as indicated in Figure 4.

MVH-406GH— PLATE COMPACTOR COMPONENTS

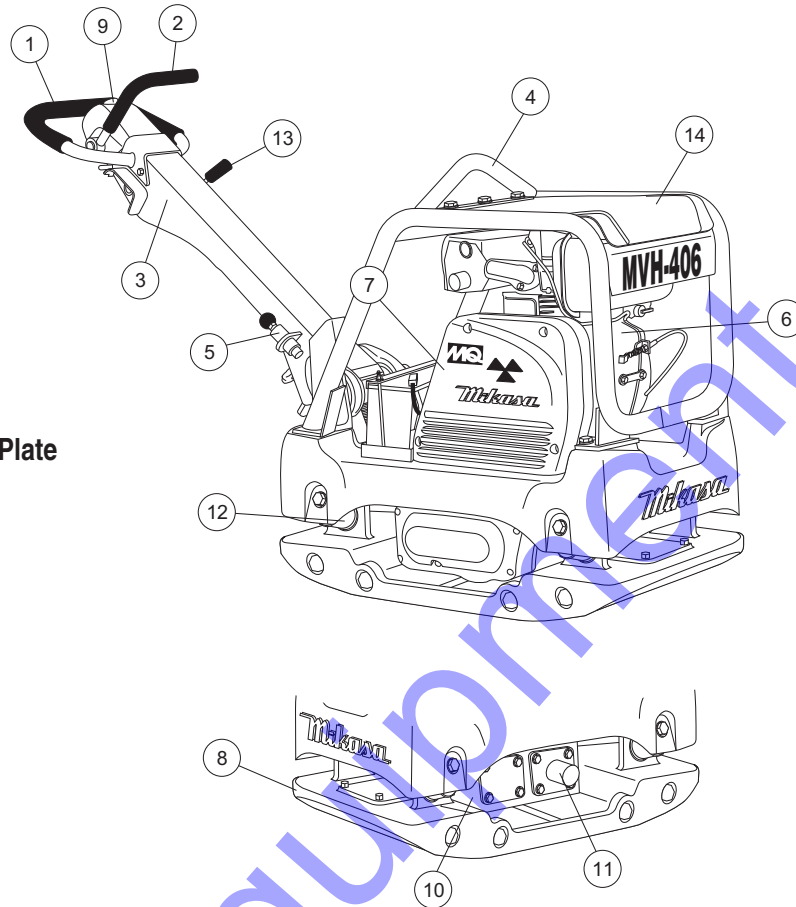


Figure 4. MVH-406GH Reversible Plate Compactor Components

Figure 4 illustrates the location of the major components for the MVH-406GH Reversible Plate Compactor. The function of each component is described below:

1. **Hand Grip** – When operating the compactor use this hand grip to maneuver the compactor.
2. **Forward & Reverse Lever** – **Push** the lever forward, the compactor will move in a forward direction, **pull** the lever backwards, the compactor will move in backwards direction. Placing the lever in the middle (midway) will cause the compactor not to move (neutral).
3. **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.
4. **Guard Hook** - Used to lift the machine with crane or other lifting device.
5. **Stopper** - Locks the handle in place in the upward position for stowing.
6. **Engine** – This plate compactor uses a GX390U1SMX2 Honda gasoline engine. Refer to the owner's manual for engine information and related topics.
7. **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.
8. **Base Plate** – Designed to compact sand, clay, and asphalt.
9. **Oil Reservoir** – Fill with Shell Tellus Oil 46 or equivalent grade hydraulic oil.
10. **Vibration Case** – Encloses the eccentric, gears and counter weights.
11. **Hydraulic Cylinder** – Activated by moving the travel lever. The cylinder controls the direction of movement by the plate compactor.
12. **Shock Absorber** – Protects plate compactor from damage by absorbing vibration during operation.
13. **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.
14. **Rubber Cover** – Lift this rubber cover to gain access to the fuel tank.

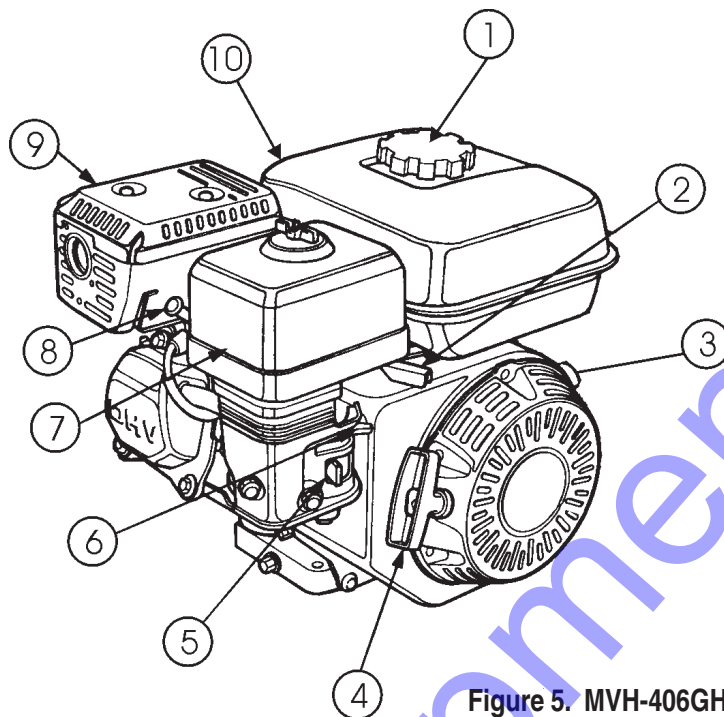


Figure 5. MVH-406GH Engine Components

INITIAL SERVICING

The engine (Figure 5) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions & details of operation and servicing. The engine shown above is a **HONDA** engine, operation for other types of engines may vary somewhat.

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



DANGER

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

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

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

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

8. **Spark Plug** – Provides spark to the ignition system. Set spark plug gap to 0.6 - 0.7 mm (0.028 - 0.031 inch) Clean spark plug once a week.
9. **Muffler** – Used to reduce noise and emissions.



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.

10. **Fuel Tank** – Holds unleaded gasoline. For additional information refer to engine owner's manual.

CAUTION

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



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



Before Starting

1. Read safety instructions at the beginning of manual.
2. Familiarize yourself with the operating and control elements of the machine and the working environment. This includes obstacles in the working area, bearing capacity of the ground and the necessary safety provisions.
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 fastening nuts and bolts for tightness. Loose threads may cause damage to the machine when vibrating.
5. Understand the geographical features and regulations of the job site.
6. Clean the compactor, removing dirt and dust. Particularly, the bottom of the plate, engine cooling air inlet.



Checking Engine Oil Level

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

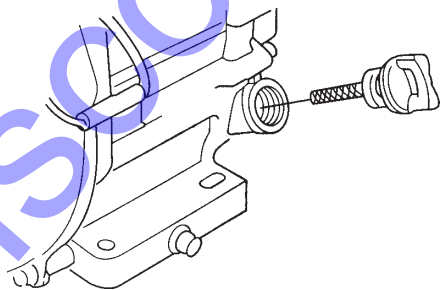


Figure 6. Engine Oil Dipstick Removal

4. If the oil level is low (Figure 7), fill to the edge of the oil filler hole with the recommended oil type (Table 4). Maximum oil capacity is 1.16 quarts (1.10 liters).

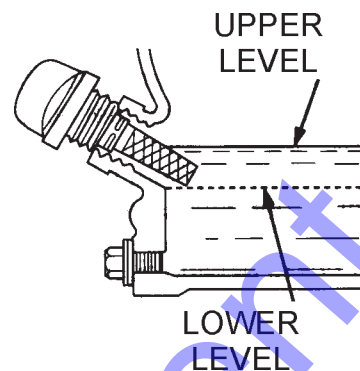


Figure 7. Engine Oil Level

Table 4. 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

Checking the Hydraulic Oil Level

1. To check the engine oil level, place the compactor on secure level ground with the engine stopped.
2. Remove the hydraulic oil breather cap located at the top of the hydraulic oil tank (Figure 8).
3. Using a 24 mm wrench, remove the hydraulic oil filler plug.
3. Visually inspect to determine if hydraulic oil level is low. If oil level is low add Shell Tellus 46 hydraulic oil or equivalent through the hand pump oil filler port.

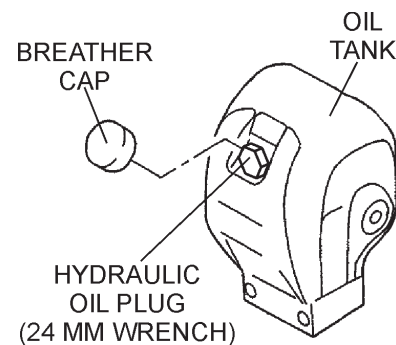


Figure 8. Hydraulic Oil Filler Plug Removal

CAUTION

DO NOT overfill hydraulic oil tank. This could cause oil leaks and sluggish operation. Clean cap and surrounding area before opening to prevent dirt from entering oil tank.

- When adding hydraulic oil, only fill to the specified oil level as marked on the front of the hydraulic oil tank (Figure 9). **DO NOT** overfill



Figure 9. Oil Tank (Front View)

Checking the Air Cleaner

- To check the engine oil level, place the compactor on secure level ground with the engine stopped.
- Loosen the wing nut (Figure 10), remove the air cleaner cover.

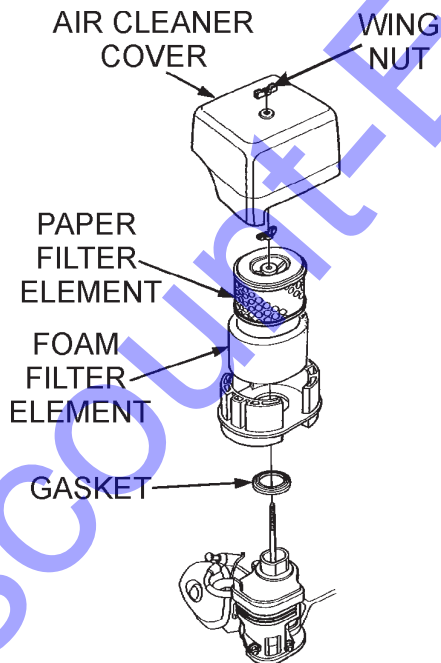


Figure 10. Air Cleaner Element

- Remove the air cleaner element (Figure 11) and inspect it for signs of wear or dirt. If air cleaner element is dirty, clean or replace element.

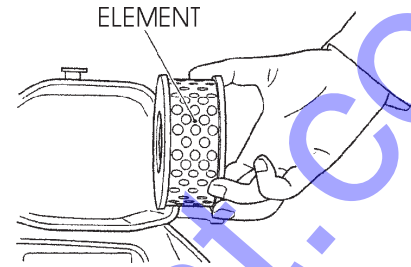


Figure 11. Air Cleaner Element

Explosive Fuel

DANGER



Diesel fuel is 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**.

Checking The Fuel

- Remove the fuel cap located on top of fuel tank.
- Visually inspect to see if fuel level is low. If fuel is low, replenish with diesel fuel (Figure 12).
- When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel.

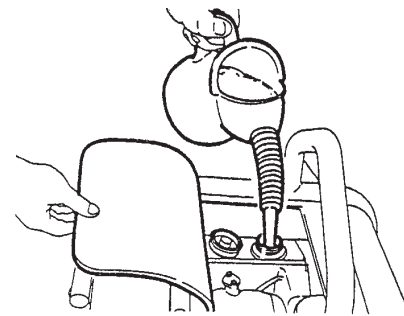


Figure 12. Refueling

DANGER

Fuel spillage on a hot engine can cause a **fire** or **explosion**. If fuel spillage occurs, wipe up the spilled fuel completely to prevent fire hazards. **NEVER!** smoke around or near the compactor.



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 start-up** of the compactor. It is extremely important that this section be read carefully before attempting to use the compactor in the field.

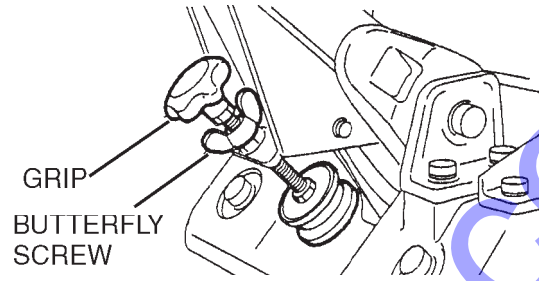


Figure 14. Handle Adjustment

Refer to Figure 3 for the location of controls and components.

Releasing the Handle

1. Pull the handle release pin, (Figure 13) then push down on the hand grip to release the handle.

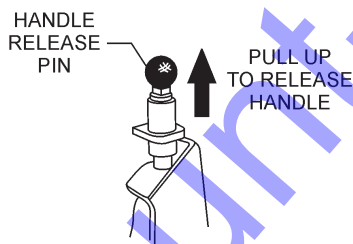
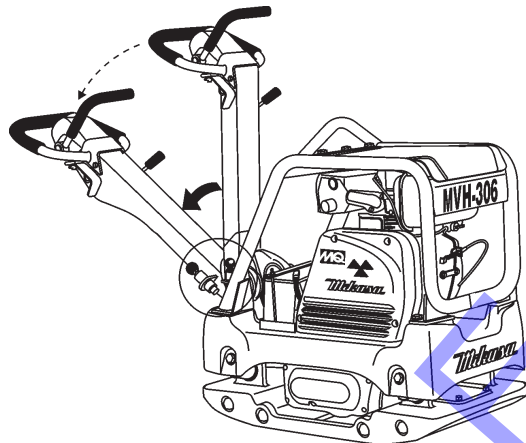


Figure 13. Handle Release Pin

Adjusting Handle Height

The height of the handle is adjustable for your comfort.

1. Loosen the butterfly screw (Figure 14).
2. Turn the grip clockwise to raise the handle or counterclockwise to lower the handle.
3. When the handle is raised to the desired height, tighten the butterfly screw.

STARTING THE ENGINE

1. Place the engine fuel valve lever (Figure 15) to the "ON" position.

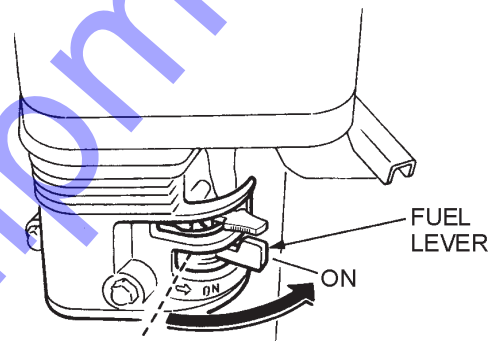


Figure 15. Engine Fuel Valve Lever

2. Place the **throttle lever** (Figure 16) in the **START** position (center).

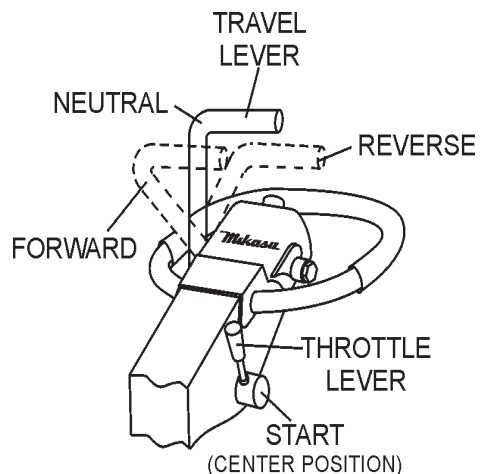


Figure 16. Travel/Throttle Lever (Start Positions)

- Place the **choke lever** (Figure 17) in the “**OPEN**” position if starting a cold engine.

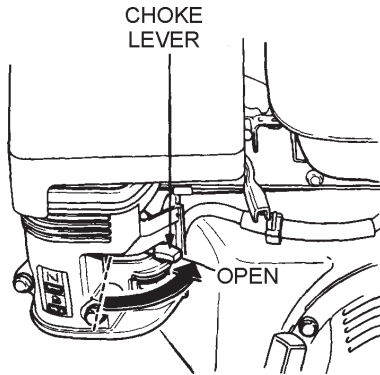


Figure 17. Engine Choke Lever (Open)

- Place the **choke lever** (Figure 18) in the “**CLOSED**” position if starting a warm engine or if the temperature is warm.

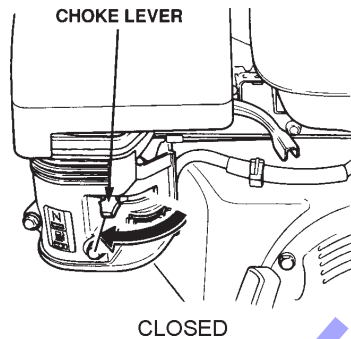


Figure 18. Engine Choke Lever (Closed)

- Place the **engine ON/OFF** switch (Figure 19) in the “**ON**” position.

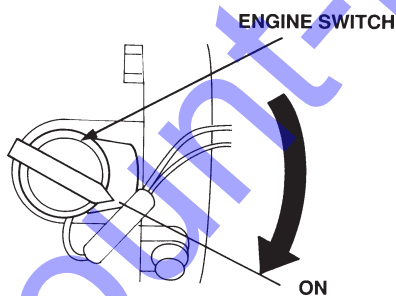


Figure 19. Engine ON/OFF Switch (ON position)

- Grasp the starter grip (Figure 20) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter briskly and smoothly for starting.

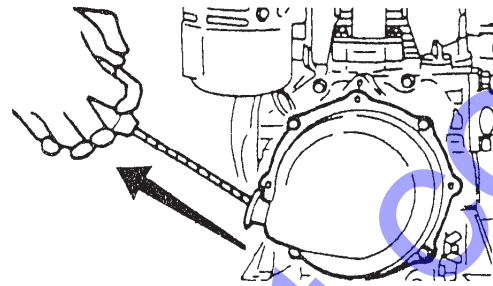


Figure 20. Engine Start Handle

- If the engine has started, slowly return the choke lever (Figure 18) to the “**CLOSED**” position. If the engine does not start, repeat steps 1 through 6.
- Before the compactor is placed into operation, run the engine for several minutes. Check for fuel leaks and noises that would be associated with a loose component.

TRAVELING



CAUTION

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

- Grasp the compactor's hand grip (Figure 21), and move the engine throttle lever (Figure 21) quickly to the **fast** position.
- With the throttle lever in the fast position, the engine speed should be around 3,600 RPM, therefore engaging the centrifugal clutch

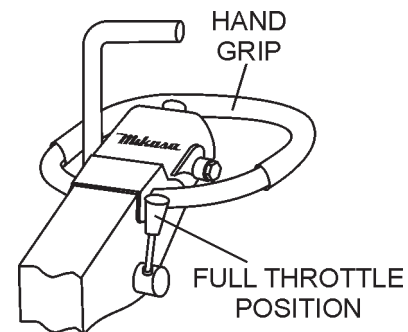


Figure 21. Throttle Lever (Fast)

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

- To make the compactor move in the forward direction push the travel lever (Figure 22) forward.

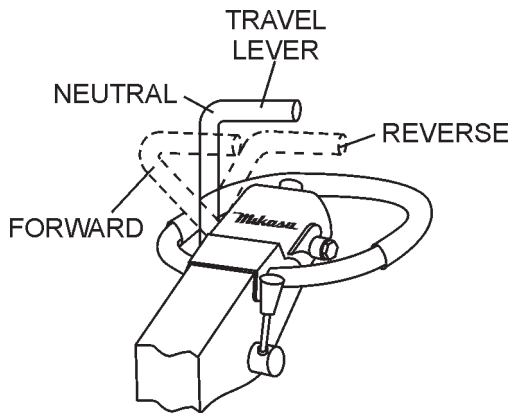


Figure 22. Travel Lever

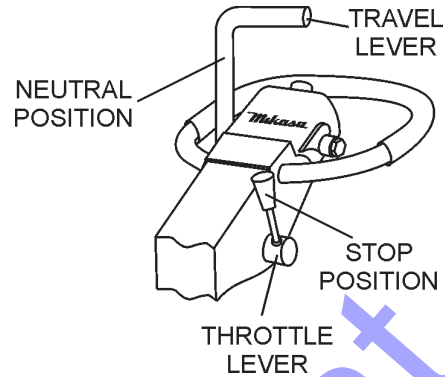


Figure 23. Throttle Lever (Stop)

- To make the compactor move in the reverse direction pull the travel lever (Figure 22) backwards.
- Firmly gasp the compactor's hand grip, the compactor will begin moving in the desired position when the direction lever has been placed in the desired position.
- 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.
- If travel lever is placed in the neutral position, the machine will vibrate in place.
- To move the compactor laterally, hold the hand grip firmly and swing compactor. **DO NOT** swing compactor while gripping the travel lever.

Normal Shutdown

- Return the throttle lever to the **START** position (Figure 16). Allow the machine to cool down for 2 to 3 minutes.
- Place the travel lever in the **NEUTRAL** position.
- Place the throttle lever in the **STOP** position (Figure 23) to stop the engine.
- Turn the engine **ON/OFF** switch to the "**OFF**" position (Figure 24).

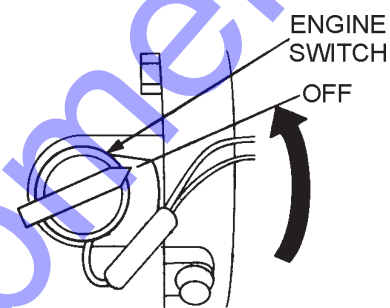


Figure 24. Starter Switch (STOP)

Emergency Shutdown

- Move the throttle lever quickly to the **STOP** position.

STOWING THE HANDLE

- Push up the handle upward (Figure 25) until the handle locks in place.

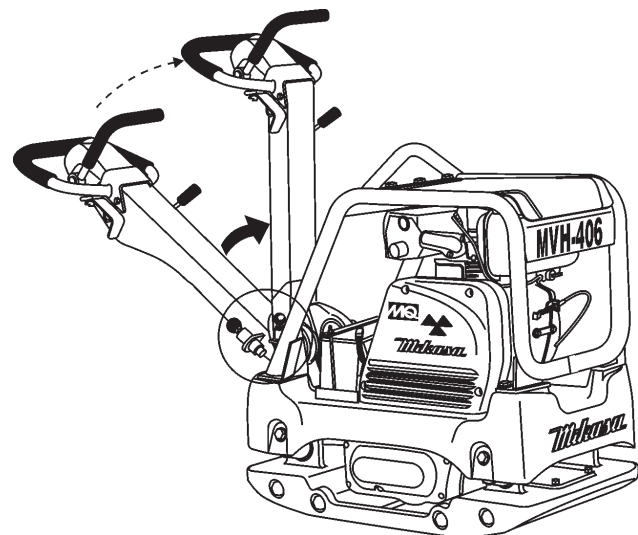


Figure 25. Stowing the Handle

CAUTION

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

Inspection and Maintenance Service Tables.

1. To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with Tables 5 through 7.

TABLE 5. MVH-406GH MACHINE INSPECTION

ITEM	HOURS OF OPERATION
Loose or Missing Screws	Every 8 hours (every day)
Damaged Parts	Every 8 hours (every day)
Function of Controlling System Part	Every 8 hours (every day)
Hydraulic System Leak	Every 100 hours
Vibrator Oil Check	Every 100 hours
Vibrator Oil Replacement	Every 300 hours
Hydraulic Oil Check	Every 100 hours
Hydraulic Oil Replacement	First after 200 hours, then every 1,000 hours
V-belt (clutch) Check	Every 200 hours

CAUTION

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

CAUTION

Fuel piping and connections should be replaced every 2 years.

TABLE 6. MVH-406GH ENGINE CHECK

ITEM	HOURS OF OPERATION
Spark Plug Check	Every 40 hours (every week)
Oil or Fuel Leak	Every 8 hours (every day)
Tightness of Fastening Threads	Every 8 hours (every day)
Engine Oil Check and Replenishment	Every 8 hours (every day) (Replenish to specified maximum level)
Engine Oil Replacement	After first 25 hours then every 50 to 100 hours
Air Filter Cleaning	Every 100 hours
See separate engine manual for details on engine check.	

Daily Service

- Check for leakage of fuel or oil.
- Check for loose screws including tightness. See Table 7 below (tightening torque), for retightening:

TABLE 7.

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	300~350	650 ~ 700					

* (In case counter-part is of aluminum)
(Threads in use with this machine are all right handed)
Material and quality of material is marked on each bolt, and screw.

- Remove soil and clean the bottom of compaction plate.
- Check hand pump, piping and hose for any leakage. A loosened hydraulic hose can be a cause for leakage. Check hydraulic hose connections with wrench applied for tightness.
- Check engine oil.

Spark Plug

1. Remove and clean the spark plug (Figure 26).
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.

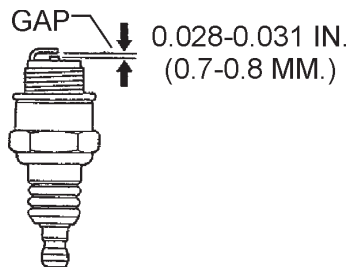


Figure 26. Spark Plug Gap

Engine Oil Replacement

1. Replace engine oil, first in 25 hours of operation and every 50 to 100 hours afterwards.
2. Drain the engine oil when the oil is **warm** as shown in Figure 27.
3. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
4. Replace engine oil with recommended type oil as listed in Table 4. Engine oil capacity is 1.16 quarts (1.1 liters). **DO NOT** overfill.
5. Install drain bolt with sealing washer and tighten securely.

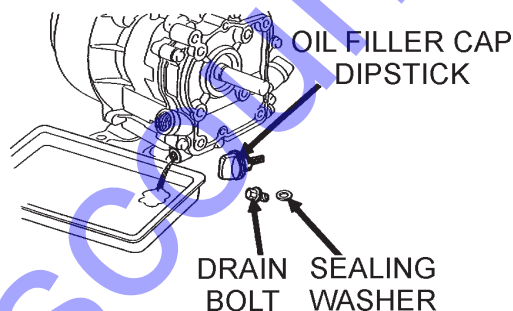


Figure 27. Engine Oil (Draining)

Engine Oil Replacement:

1. Replace engine oil, in first 25 hours of operation and every 50 to 100 hours afterwards.
2. Oil may be drained more easily when it is warm after operation (For more details, see separate engine Owner's Manual).

Air Filter (Every 6 Months or 400 Hours)

1. The air filter element should be cleaned because a clogged air cleaner can cause poor engine starting, lack of power and shorten engine life substantially.

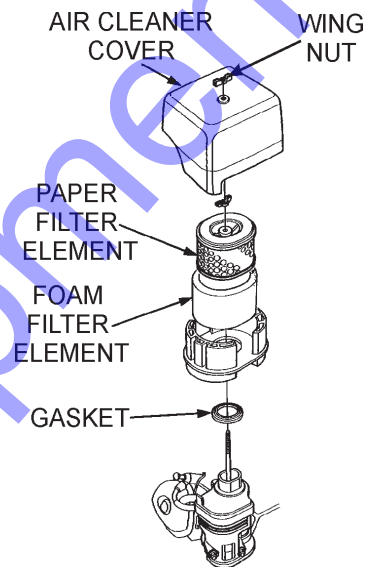


Figure 28. Engine Air Filter and Element

2. To clean or replace air filter loosen the wing nut on the air filter housing (Figure 28) remove the cover and take out air filter cartridge. If only cleaning of the air filter is desired blow through the air filter cartridge from the inside, moving a jet of dry compressed air up and down until all dust is removed.

CAUTION

NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand gets caught between the V-belt and the clutch (Figure 29). Always use safety gloves.

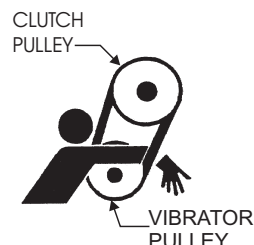


Figure 29. V-Belt Hazard

Checking and Replacing the V-Belt and Clutch

- After 200 hours of operation, remove the belt cover to check the V-belt tension (Figure 30). Tension is proper if the belt bends about 3/8" (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.

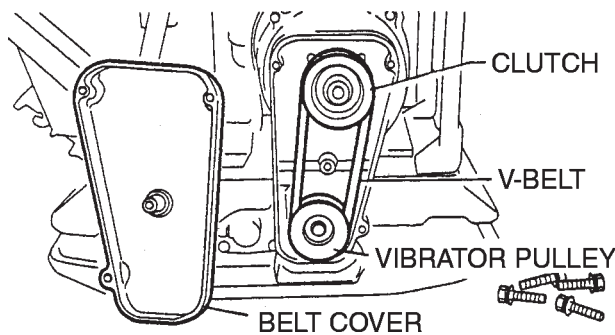


Figure 30. V-Belt Check

● Replacing the V-belt

Remove the belt cover. Engage an offset wrench 3/4" (19 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 cover removed, check outer drum of the clutch for seizure and "V" groove for wear or damage with your eyes. Clean the "V" groove as necessary. If the shoe is worn, power transmission becomes deficient and slipping will result.

● Replacing Clutch

Remove V-belt. Remove bolt at engine power output by giving a light tap with a hammer to an engaged wrench and rotate bolt counterclockwise. Remove clutch with a pulley extractor. To reinstall, reverse the procedure.

⚠ CAUTION

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

Vibrator Oil Level Check

⚠ CAUTION

Always clean the area around the vibrator oil level check plug before removing oil check plug. This will prevent dirt and debris from entering the system.

- In every 100 hours of operation, with the machine positioned horizontally, use a 3/4" (19 mm) wrench and remove vibrator oil level check plug (Figure 31). Visually inspect and see if vibrator oil level is up to filler port. Use engine oil 10W-30 for lubrication. Capacity of the lubrication oil is 20.3 fl.oz (600cc). Be sure to clean area around check hole to prevent dirt and dust from entering.

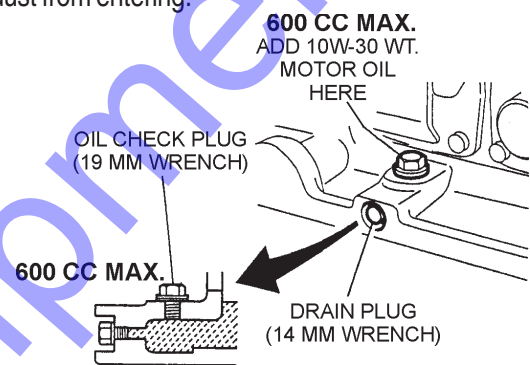


Figure 31. Vibrator Oil Drain and Check Plugs

Draining Vibrator Oil

- Replace vibrator oil after first 200 hours and in every 1,000 hours of operation.
- Position handle bar vertically (storage position).
- Using a 14 mm wrench remove the vibrator oil drain plug (Figure 31) from the vibrating plate assembly.

For draining oil through level check hole, have the machine inclined with a sleeper or the like placed under the compaction plate on opposite side.

- After hydraulic oil has been completely drained from machine, fill with 10W-30 motor oil to the appropriate safe operating level (Figure 31).
- Reinstall drain plug into vibrating plate assembly. Apply seal tape or Loctite #575 to thread portion of drain plug.

Draining Hydraulic Oil

- Disconnect the hydraulic hose (Figure 32) connected to the hydraulic oil cylinder.

2. Push the travel lever back and forth to drain the hydraulic oil from the hand pump (hydraulic oil reservoir).

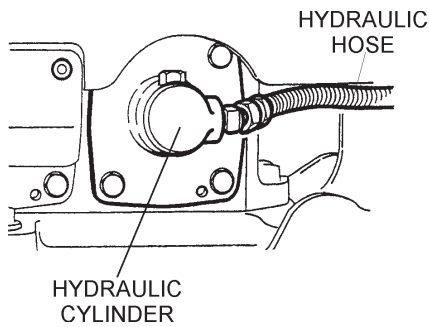


Figure 32. Hydraulic Oil Cylinder/Hose

3. After draining hydraulic oil, reconnect hydraulic oil hose to cylinder.
4. Place handle in upright position. Pull travel lever all the way back (reverse), and using a rope, secure travel lever to hand grip.

Adding Hydraulic Oil

1. Remove the breather cap and oil plug (Figure 33) from the hydraulic oil tank using a 24mm hex socket.

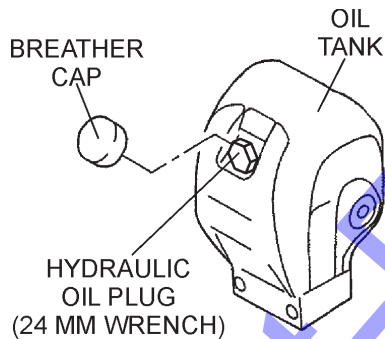


Figure 33. Hydraulic Oil Tank

2. Using a funnel, add **Shell Tellus Oil #46** or equivalent to the hydraulic oil tank through the oil filler port (Figure 34). Oil tank capacity is 50.7 fl. oz (1500 cc)

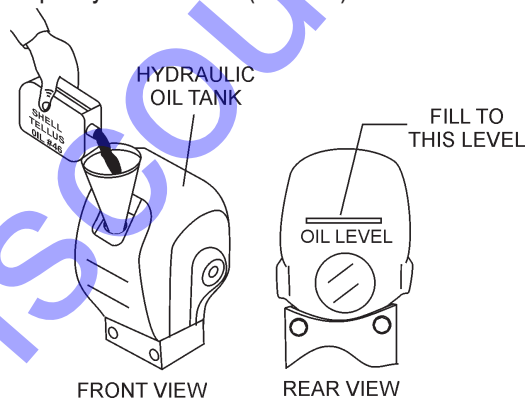


Figure 34. Hydraulic Oil Maintenance

CAUTION

Make sure hydraulic oil is at a normal safe operating level. **DO NOT** over fill. Over filling (excessive oil) will cause excess oil to blow out of bleeder plug.

3. Loosen bleeder plug located at top of hydraulic cylinder on side of vibrator (Figure 35). Air remaining in the circuit will be forced out of the bleeder plug. Once all air has been purged from the hydraulic system, tighten bleeder plug securely
4. Reinsert oil plug into hydraulic oil tank and tighten securely. Reinstall breather cap.

CAUTION

The **bleeder plug** should only be loosened, but not removed.

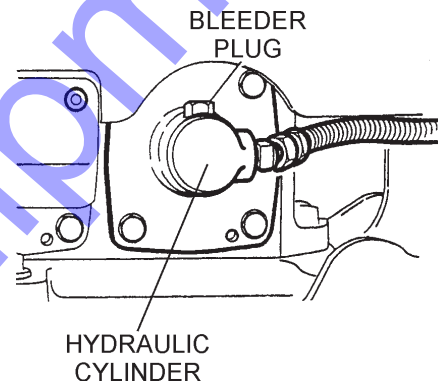


Figure 35. Bleeder Plug

LONG TERM STORAGE

When storing your compactor for long periods do the following:

- Run the engine at idle speed for 3-5 minutes.
- Stop the engine. Drain the engine crankcase oil while the engine is still warm. Fill engine crankcase with fresh oil.
- Wipe any oil or dirt that may have accumulated on the compactor.
- Store compactor in a cool dry place, out of reach of children and unauthorized personnel.

Troubleshooting

See Tables 8 (engine) and 9 (plate compactor) on proceeding pages for engine and plate compactor troubleshooting guide.

MVH-406GH—TROUBLESHOOTING

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the

diagnosis based on the Engine Troubleshooting (Table 8) information shown below. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service plant.

TABLE 8. ENGINE TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Difficult to start, "fuel is available, but no SPARK at spark plug".	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
Difficult to start, "fuel is available, and SPARK is present at the spark plug".	ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirty?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser.
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, "fuel is available, spark is present and compression is normal"	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
Difficult to start, "fuel is available, spark is present and compression is low"	Suction/exhaust valve stuck or protruded?	Re-seat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and or piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present at carburetor.	Fuel not available in fuel tank?	Fill with correct type of fuel.
	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock lever, replace if necessary.
	Fuel filter clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the

diagnosis based on the Compactor Troubleshooting (Table 9) information shown below. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service plant.

TABLE 8. ENGINE TROUBLESHOOTING (CONTINUED)

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

TABLE 9. TROUBLESHOOTING COMPACTOR

SYMPTOM	POSSIBLE CAUSE	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.	Travel reversing system inoperative?	Check entire travel system.
	Reversing lever installation correct?	Clean installation of reversing lever.
	Broken or defective oil hose?	Replace oil hose.
	Aeration in hydraulic oil for for travel reversing system?	Purge air in hydraulic oil. (Bleed plug)
	Excessive oil in reversing system?	Fill to correct level.
	Selector valve clogged with trash?	Clean selector valve.
	Cylinder piston bearing failure?	Check piston bearing in cylinder for leakage at USH packing.
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.
	Pump input shaft key or adapter key-way damaged?	Replace input shaft key or adapter key-way
	Cylinder piston bearing failure?	Check piston bearing in cylinder for leakage at USH packing.
Reversing lever operating resistance great.	Excessive hydraulic oil?	Fill to correct level.

MVH-406GH — 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.

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 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.



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 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.

MVH-406GH W/ HONDA GX390U1SMX2 ENGINE

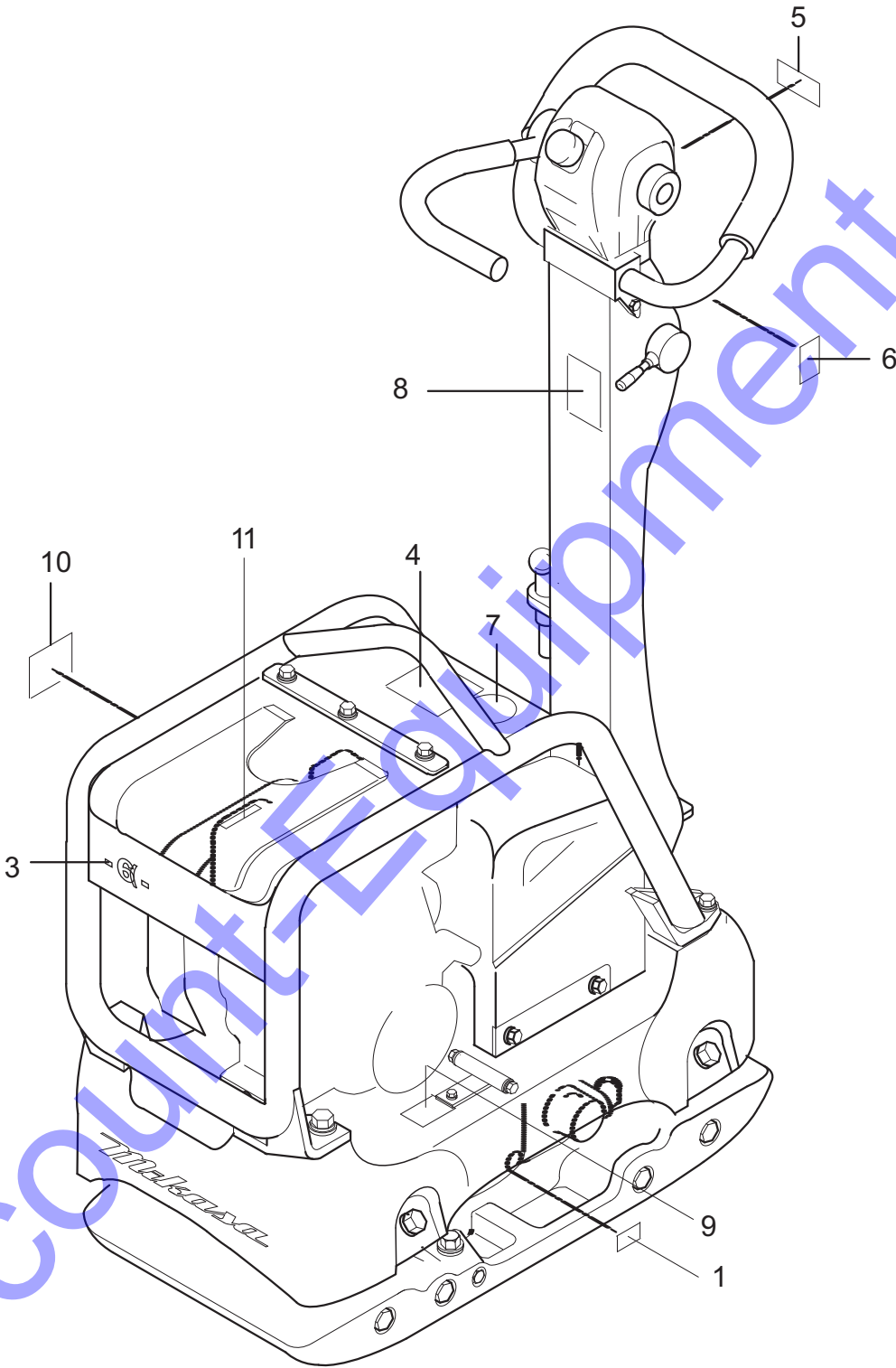
1 to 3 Units

Qty.	P/N	Description
1	956100055	THROTTLE WIRE
2	070200353	V-BELT
3	9807956846	SPARK PLUG
3	17210ZE3505	ELEMENT, AIR CLEANER (DUAL)
1	17620Z0T305	CAP, FUEL TANK
1	28462ZE3W01	ROPE, RECOIL
4	939010260	SHOCK ABSORBER

Discount-Equipment.com

MVH-406GH — NAMEPLATE AND DECALS

NAMEPLATE AND DECALS



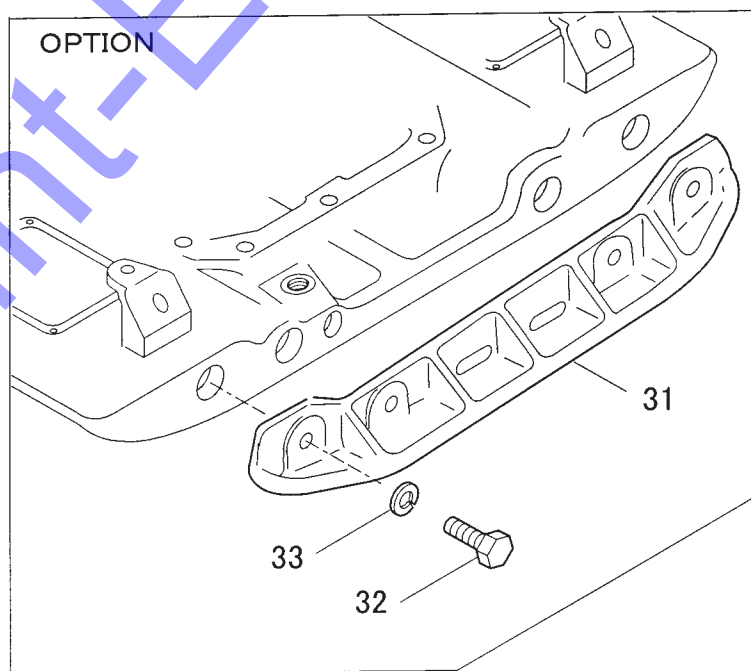
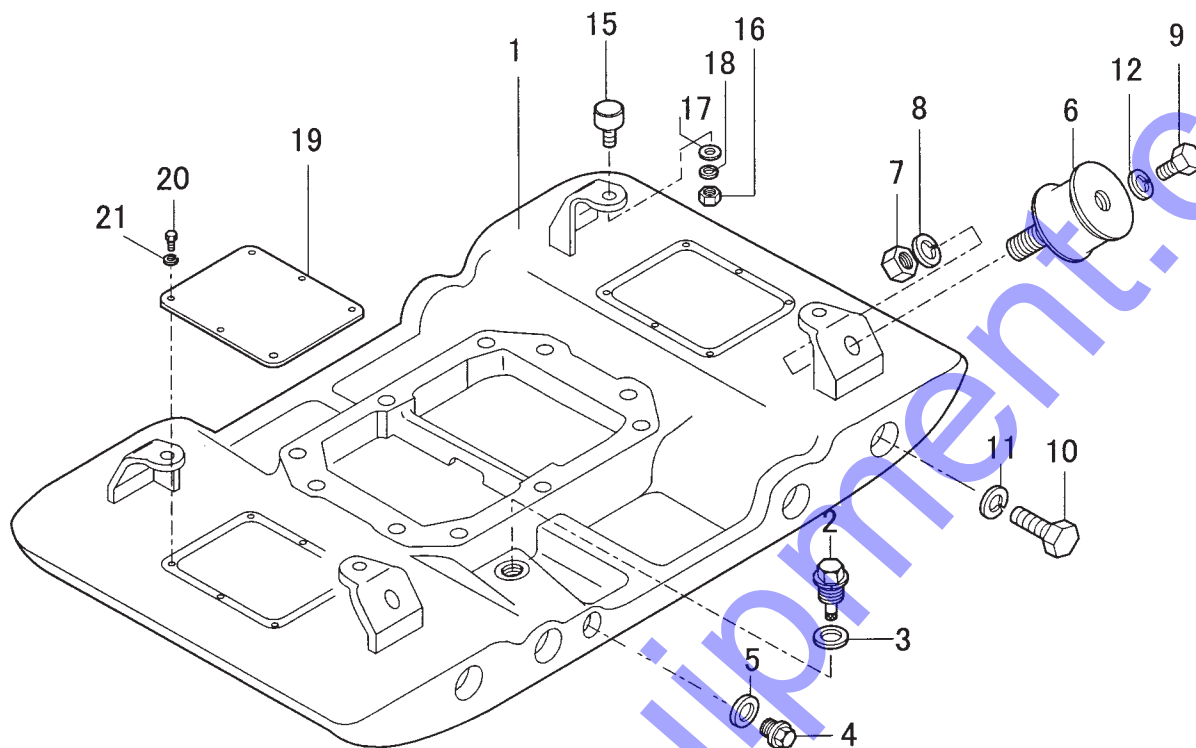
MVH-406GH — NAMEPLATE AND DECALS

NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	920201950	DECAL, OIL SAE 10W-30	1	NPA-195
3	920211640	DECAL, MODEL LOGO	1	
4	920209620	DECAL, CAUTION	1	NPA-962
5	920207480	DECAL, SHELL TELLUS OIL 46	1	NPA-748
6	920204580	DECAL, FULL THROTTLE	1	NPA-458
7	920203330	DECAL, EAR PROTECTION	1	DCL-333
8	920211060	DECAL, CAUTION (TRAVEL LEVER)	1	NPA-1106
9		DECAL, SERIAL NO.	1	CONTACT PARTS DEPT.
10	920201580	DECAL, MQ LOGO	1	
11	920205040	DECAL, V-BELT HDPF-5350	1	NPA-504

MVH-406GH — VIBRATING PLATE ASSY.

VIBRATING PLATE ASSY.



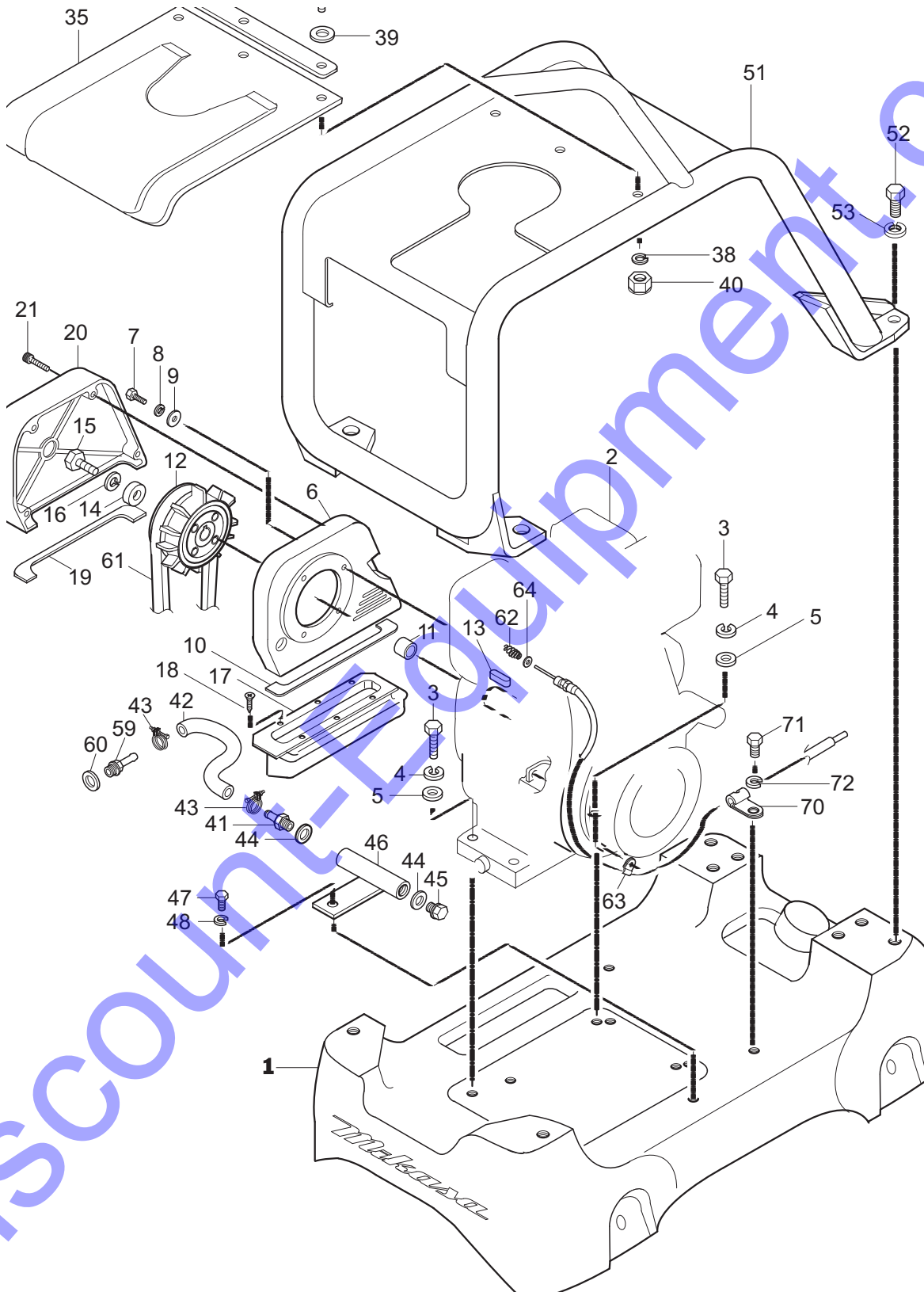
MVH-406GH — VIBRATING PLATE ASSY.

VIBRATING PLATE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	465118410	VIBRATING PLATE	1	
2	464458940	OIL GAUGE	1	
3	953402930	COPPER PACKING 19X30X1	1	
4	953400270	PLUG 1/4X14 10L	1	
5	953405260	PACKING 1/4 (CU)	1	
6	939010260	SHOCK ABSORBER 110X60H	4	
7	020316130	NUT M16	4	
8	030216400	WASHER, LOCK M16	4	
9	001221635	BOLT 16X35 T	4	
10	001221830	BOLT 18X30 T	8	
11	58407	WASHER, LOCK M18	8	
12	030216400	WASHER, LOCK M16	4	
15	939010010	SHOCK ABSORBER, STOPPER 45	4	
16	020310080	NUT M10	4	
17	031110160	WASHER, FLAT M10	4	
18	030210250	WASHER, LOCK M10	4	
19	464343730	COVER, VIBRATING PLATE	2	
20	011008015	BOLT 8X15 T	12	
21	030208200	WASHER, LOCK M8	12	
31	52993	EXTENSION PLATE	2	OPTION
32	012218050	BOLT 18X50 T	8	OPTION
33	58407	WASHER, LOCK M18	8	OPTION

MVH-406GH — BASE AND ENGINE ASSY.

BASE AND ENGINE ASSY.



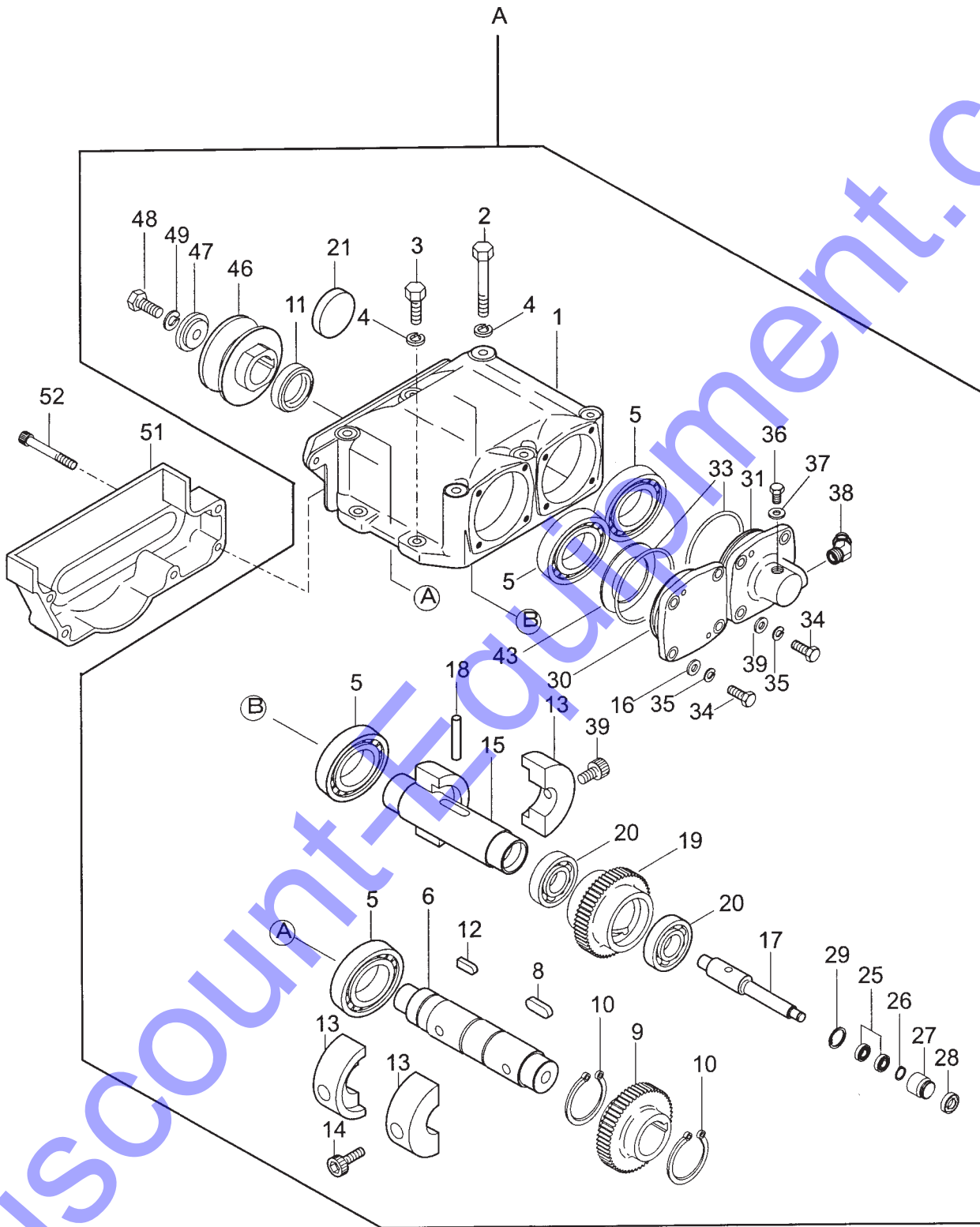
MVH-406GH — BASE AND ENGINE ASSY.

BASE AND ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	465118420	BASE	1	
2	912239011	ENGINE ASSY., GX390U1SMX2	1	
3	0105051045	BOLT 10X45 T	4	
4	030210250	WASHER, LOCK M10	4	
5	031110160	WASHER, FLAT M10	4	
6	465217030	BELT COVER (IN)	1	
7	001121025	BOLT 8X25 T	4	
8	030210250	WASHER LOCK M10	4	
9	031110160	WASHER, FLAT M10	4	
10	465345100	DUST-PROOF SPONGE (IN)	1	
11	464457360	SPACER	1	
12	456343340	CLUTCH ASSY/CHM03/W. FAN	1	
13	951400110	KEY 7X7X35	1	
14	952400690	WASHER 9X35X4.5	1	
15	001220830	BOLT 8X30 T	1	
16	030208200	WASHER, LOCK M8	1	
17	465216990	DUST-PROOF COVER	1	
18	092006010	FLAT HEAD SCREW 6X10	3	
19	465345110	DUST-PROOF SPONGE (OUT)	1	
20	465217000	BELT COVER (OUT)	1	
21	001521052	SOCKET HEAD BOLT 10X50 T	4	
35	464117920	RUBBER COVER (GUARD FRAME)	1	
36	456449950	PLATE, COVER	1	
37	011208030	BOLT 8X30 T	1	
38	030208200	WASHER, LOCK M8	3	
39	031108160	WASHER, FLAT M8	3	
40	022710809	NYLON NUT M8	3	
41	459010060	UNION TIP, DRAIN	1	
42	465459390	DRAIN HOSE	1	
43	459010090	HOSE BAND	2	
44	459010080	GASKET (OIL DRAIN)	2	
45	0401140030	PLUG	1	
46	464457380	DRAIN JOINT	1	
47	014208020	BOLT 8X20 T	1	
48	030208200	WASHER, LOCK M8	1	
51	465118770	GUARD HOOK	1	
52	012214030	BOLT 14X30 T	4	
53	030214350	WASHER, LOCK M14	4	
59	90131ZE3790	DRAIN JOINT	1	
60	9410912000	WASHER, DRAIN PLUG M12	1	
61	070200353	V-BELT	1	
62	0830000010	COIL SPRING	1	
63	151010680	CLAMP COMPLETE	1	
64	58151	WASHER, FLAT M5	1	
70	959407260	CLIP D6	1	
71	001221015	BOLT 10 X 15	1	
72	030210250	WASHER, LOCK M10	1	

MVH-406GH — VIBRATOR ASSY.

VIBRATOR ASSY.



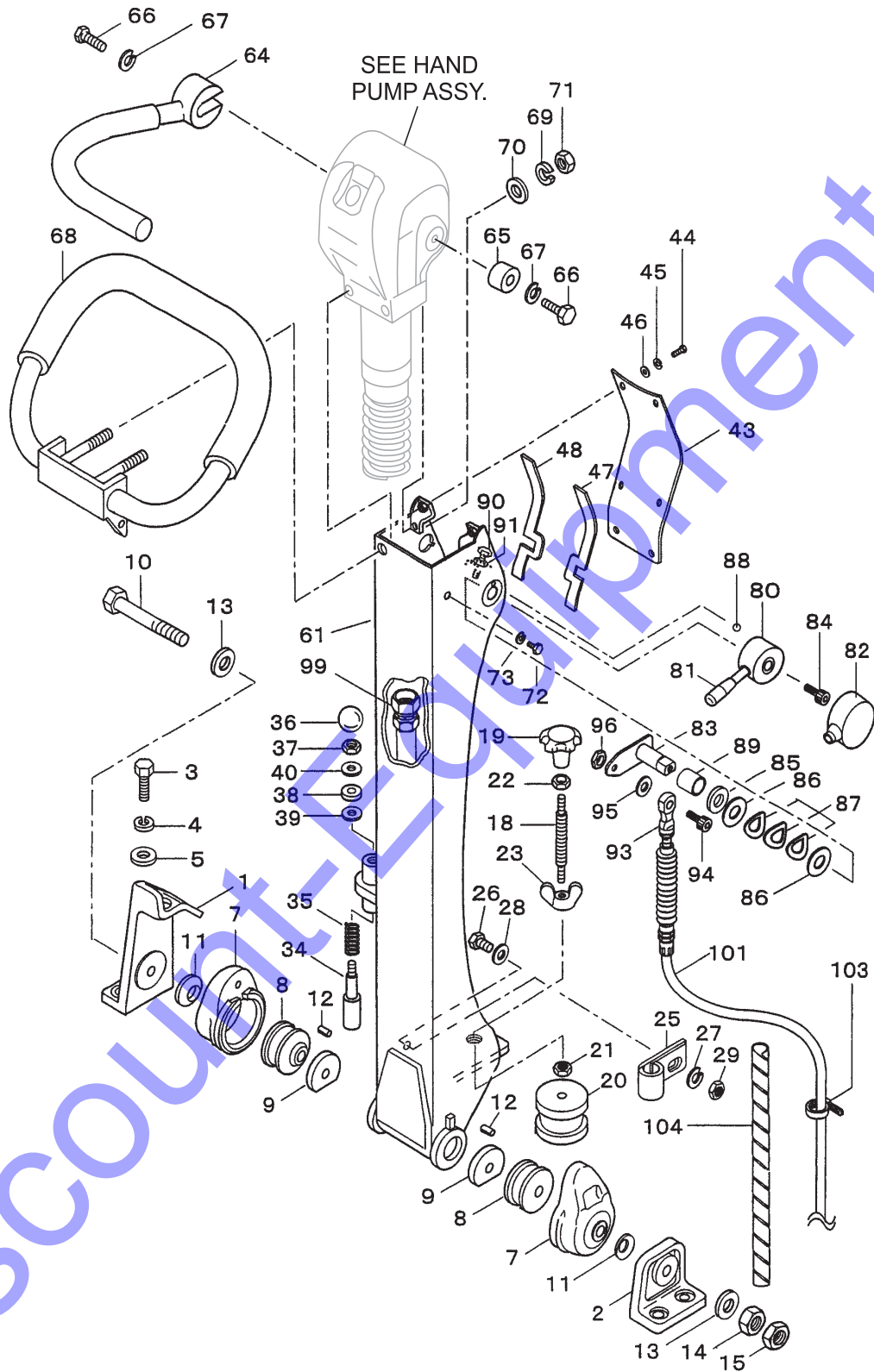
MVH-406GH — VIBRATOR ASSY.

VIBRATOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
A	465910010	VIBRATOR ASSY.	1	INCLUDES ITEMS W/#
1#	464117880	VIBRATING CASE	1	
2#	001221470	BOLT 14X150 T	6	
3#	001221450	BOLT 14X50 T	4	
4#	030214350	WASHER, LOCK M14	10	
5#	047920120	ROLLER BEARING NJ310EMC4	4	
6#	457212410	ROTARY SHAFT, DRIVE	1	
8#	951405370	KEY 15X10X39 RR	1	
9#	456327150	GEAR, DRIVE	1	
10#	080200550	STOP RING S-55	2	
11#	060105030	OIL SEAL SB-50729	1	
12#	951404970	KEY 12X8X30 R	1	
13#	465345080	ECCENTRIC ROTATOR	4	
14#	009120301	SOCKET HEAD BOLT 16X40 T	2	
15#	456337670	ROTARY SHAFT, DRIVEN/304B	1	
16#	009120302	SOCKET HEAD BOLT 16X30T	2	
17#	456337380	PISTON ROD	1	
18#	456010010	KNOCK PIN 10X70	1	
19#	464343720	GEAR (DRIVEN)	1	
20#	040006911	BEARING 6911	2	
21#	953010030	SEAL CAP/SC72-8N	1	
25#	042506000	BEARING 6000ZZSG	2	
26#	080200100	STOP RING S-10	1	
27#	455435051	PISTON, 22.4D	1	
28#	455010070	PACKING USH-22.4X30X5	1	
29#	080100260	STOP RING R-26	1	
30#	456327130	BEARING COVER	1	
31#	456210636	CYLINDER (L)	1	
33#	050101050	O-RING G-105	2	
34#	001221025	BOLT 10X25 T	8	
35#	030210250	WASHER, LOCK M10	8	
36#	011008015	BOLT 8X12 T	1	
37#	953404600	COPPER PACKING 8X16X2	1	
38#	455010020	ELBOW 45 DEG. 15-0404	1	
39#	031110160	WASHER, FLAT M10	4	
43#	952405470	SHIM 90X110X0.5	2	
46#	464343710	PULLEY	1	
47#	464457370	WASHER, PULLEY	1	
48#	012212030	BOLT 12X30 T	1	
49#	030212300	WASHER, LOCK M12	1	
51	465217010	BELT COVER (LOWER)	1	
52	001520852	SOCKET HEAD BOLT 8X60 T	5	

MVH-406GH — CONTROL ASSY.

CONTROL ASSY.



CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	464343680	HANDLE BRACKET	1	
2	456336420	HANDLE BRACKET(R)	1	
3	012212035	BOLT 12X35 T	4	
4	030212300	WASHER, LOCK M12	4	
5	031112230	WASHER, FLAT M12	4	
7	456336400	RUBBER COUPLING	2	
8	456449940	SHOCK ABSORBER	2	
9	456449930	RUBBER PLATE	2	
10	001221681	BOLT 16X250 T	1	
11	032124400	CONICAL SPRING WASHER M24	2	
12	025306016	SPRING PIN 6X16	2	
13	0401450160	WASHER, FLAT M16	2	
14	020316130	NUT M16	1	
15	020416100	NUT M16, H=10	1	
18	455434950	SPINDLE	1	
19	455010030	KNOB	1	
20	939010060	SHOCK ABSORBER 60	1	
21	020310080	NUT M10, H=6	1	
22	020412070	NUT M12, H=7	1	
23	022411635	WING NUT M16	1	
25	954404230	CLAMP SA120-18	1	
26	011206020	BOLT 6X20 T	1	
27	030206150	WASHER, LOCK M6	1	
28	952404470	WASHER, FLAT M6	1	
29	020106050	NUT M6	1	
34	501402870	HANDLE STOPPER	1	
35	501402880	SPRING/HANDLE (1.4X18X44)	1	
36	959403460	BALL GRIP 32D-M10	1	
37	020310080	NUT M10, H=6	1	
38	456449980	RUBBER PACKING 9D-20D-5T	1	
39	953405260	PACKING 1/4 (CU)	1	
40	031110160	WASHER, FLAT M10	1	
43	464343690	HANDLE COVER	1	
44	0105050616	BOLT 6 X15 T	6	
45	030206150	WASHER, LOCK M6	6	
46	852404470	WASHER, FLAT M6	6	
47	464457710	PACKING A, HANDLE COVER	1	
48	464457720	PACKING B, HANDLE COVER	1	
61	464117890	COLUMN, HANDLE	1	
64	464216630	TRAVEL LEVER	1	
65	464457400	HANDLE BOSS	1	
66	012010030	BOLT 10 X 30 T	2	
67	030210250	WASHER, LOCK M10	2	
68	464216620	HANDLE W/RUBBER GRIP	1	

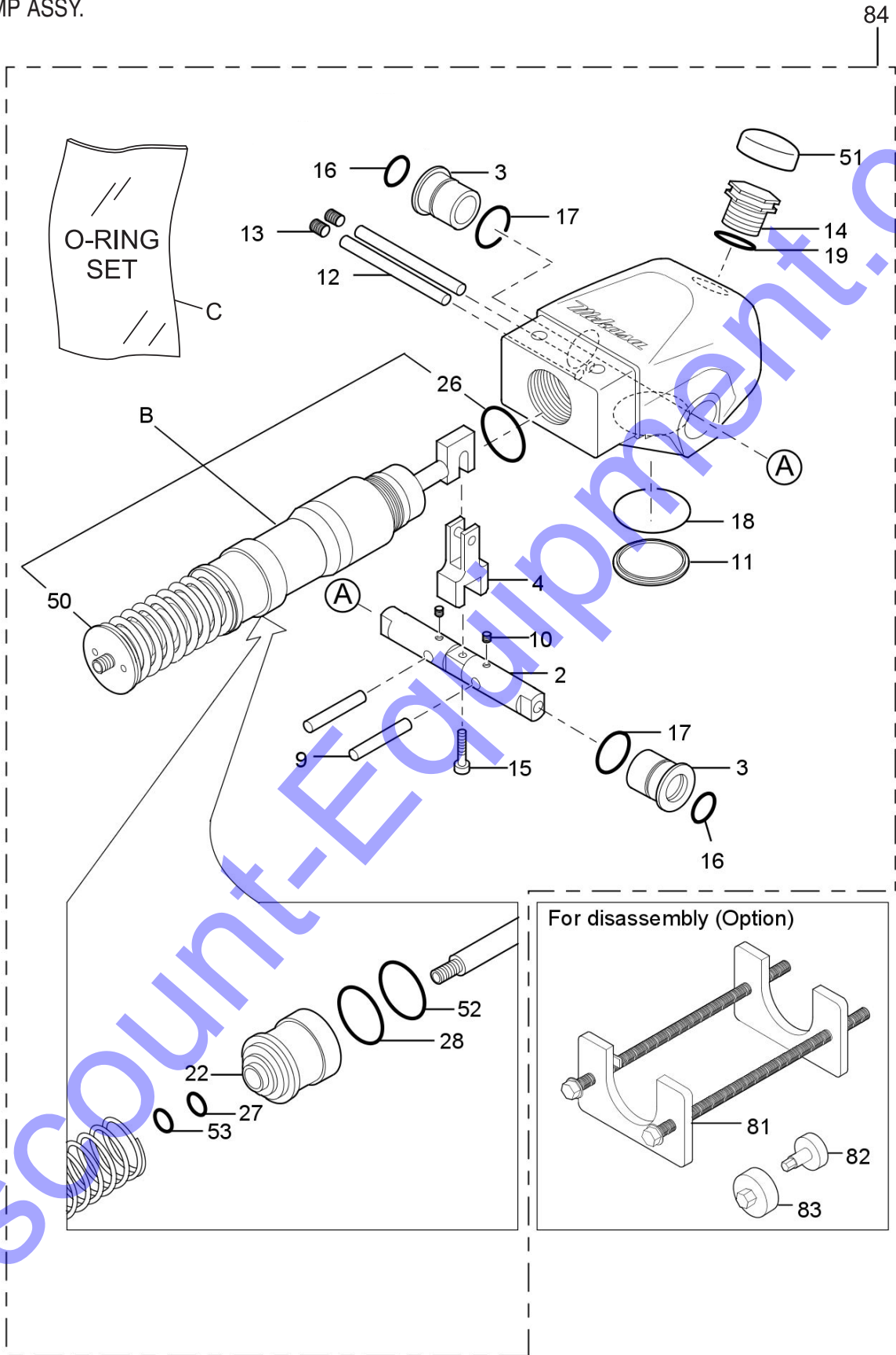
MVH-406GH — CONTROL ASSY. (CONTINUED)

CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
69	030210250	WASHER, LOCK M10	2	
70	031110160	WASHER, FLAT M10	2	
71	020310080	NUT M10	2	
72	011208025	BOLT 8X25 T	2	
73	030208200	WASHER, LOCK M8	2	
80	464457340	THROTTLE LEVER	1	
81	959403840	BAR GRIP, I.D. 12MM	1	
82	464457420	COVER, THROTTLE LEVER	1	
83	464457350	ARM, THROTTLE	1	
84	001520820	SOCKET HEAD BOLT 8X20 T	1	
85	031116260	WASHER, FLAT M16	1	
86	458450660	WASHER 16.4-35-0.6	2	
87	033910080	CONICAL SW 16,3X31.5X1.2	3	
88	464457440	STEEL BALL D6 (SUJ)	1	
89	464010010	DRY BUSHING /LFB-1620	1	
90	001220625	BOLT 6X25 T	2	
91	020306050	NUT M6	2	
93	464010020	ROD END M5	1	
94	001520520	SOCKET HEAD BOLT 5X20 T	1	
95	031105080	WASHER, FLAT M5	1	
96	020305040	NUT M5	1	
99	954002270	OIL HOSE W/ SPRING 1/4X920	1	
101	956100055	THROTTLE WIRE	1	
103	454010020	CLAMP TC-100	1	
104	959021815	SPIRAL TUBE 6D-330L	1	
104	959021810	SPIRAL TUBE KEP6/L=500	1	

MVH-406GH — HAND PUMP ASSY.

HAND PUMP ASSY.



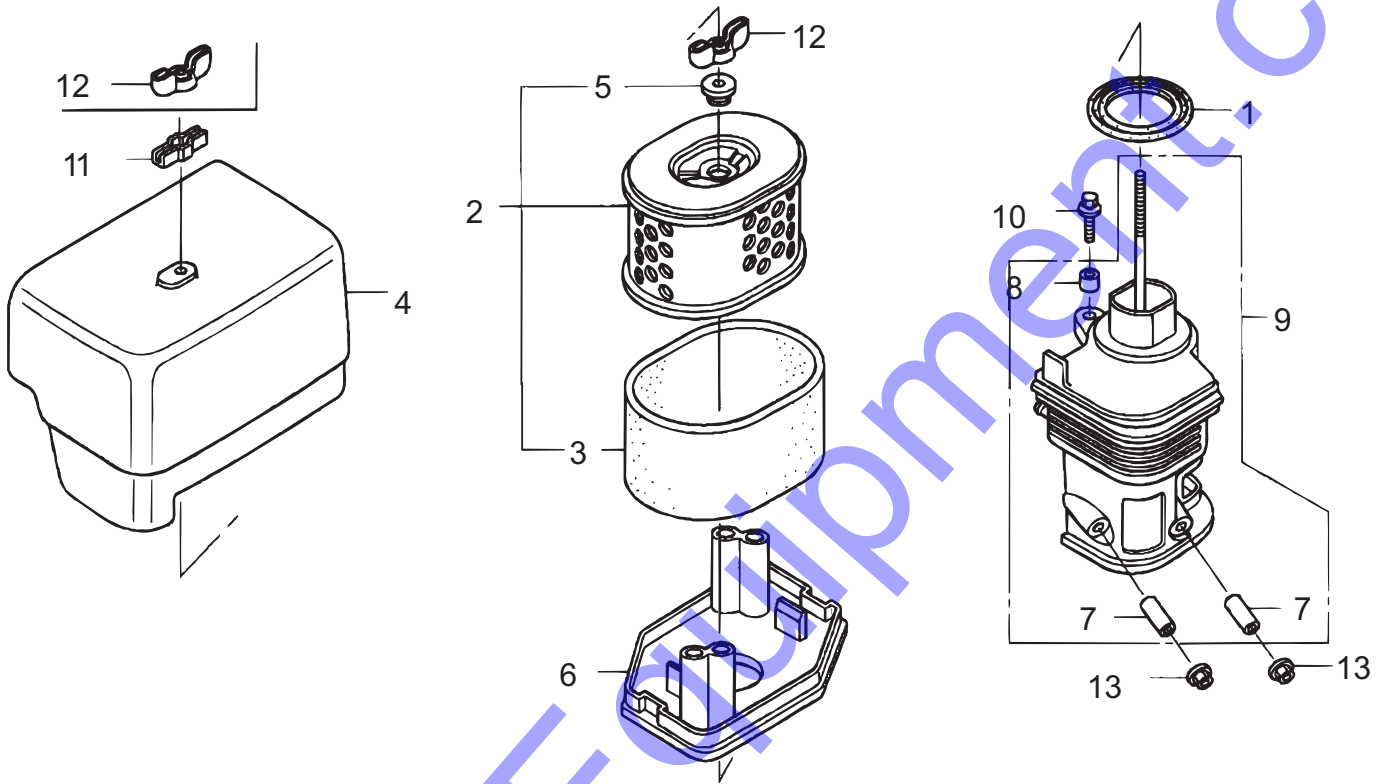
MVH-406GH — HAND PUMP ASSY.

HAND PUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
B*	465910070	ACCUMULATOR	1	
C*	464910080	O-RING DUST,SEAL,SET	1	INCLUDES ITEMS W/#
2*	464010040	CONTROL SHAFT	1	
3*	464010050	BUSH	2	
4*	464010060	CAM	1	
9*	464010070	STOPPER	2	
10*	099205005	SOCKET HEAD SCREW 5X5 T	2	
11*	464010080	PLUG	1	
12*	464010090	PIN,STOPPER	2	
13*	464010100	PLUG	2	
14*	458010080	BREATHER	1	
15*	001520620	SOCKET HEAD BOLT 6X20 T	1	
16#*	050200200	O-RING P-20	2	
17#*	050200220	O-RING P-22	2	
18#*	050300380	O-RING S-38	1	
19#*	050200180	O-RING P-18	1	
22*	464010111	ACCUMULATOR CASE	1	
26#*	050300400	O-RING S-40	1	
27#*	050200150	O-RING P-15	1	
28#*	050100400	O-RING G-40	1	
50*	464010120	SPRING PLUG	1	
51*	458451630	BREATHER CAP	1	
52#*	069904010	DUST SEAL SER-40	1	
53#*	069901010	DUST SEAL SER-15	1	
81	984010030	SPRG.COMPRESSION TOOL	1	
82	984010040	DISASSEMBLING TOOL A	1	
83	984010050	DISASSEMBLING TOOL B	1	
84	465217100	HAND PUMP ASSY	1	INCLUDES ITEMS W/*

GX390U1SMX2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.



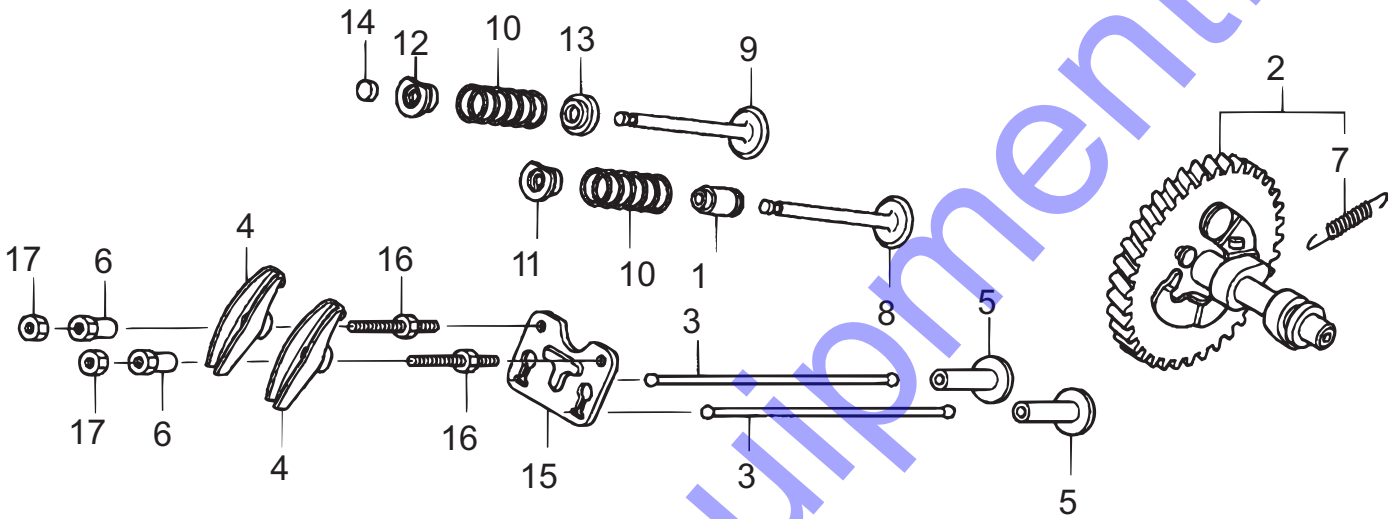
GX390U1SMX2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16271ZE2010	PACKING, ELBOW	1	
2	17210ZE3505	AIR CLEANER ELEMENT	1	INCLUDES ITEMS W/ #
3#	17218ZE3505	FILTER, OUTER	1	
4	17231ZE3W01	COVER, AIR CLEANER	1	
5#	17232891000	GROMMET, AIR CLEANER	1	
6	17235ZH9N01	NOISE SILENCER	1	
7+	17238ZE2310	COLLAR, AIR CLEANER	2	
8+	17239ZE1000	COLLAR(B), AIR CLEANER	1	
9	17410ZH9N00	ELBOW COMP., AIR CLEANER	1	INCLUDES ITEMS W/ +
10	90009ZE2003	BOLT-WASHER 6X22	1	
11	90203ZA0800	NUT, WING 6MM (BLACK)	1	
12	90325044000	NUT	1	
13	9405006000	FLANGE NUT 6MM	1	

GX390U1SMX2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



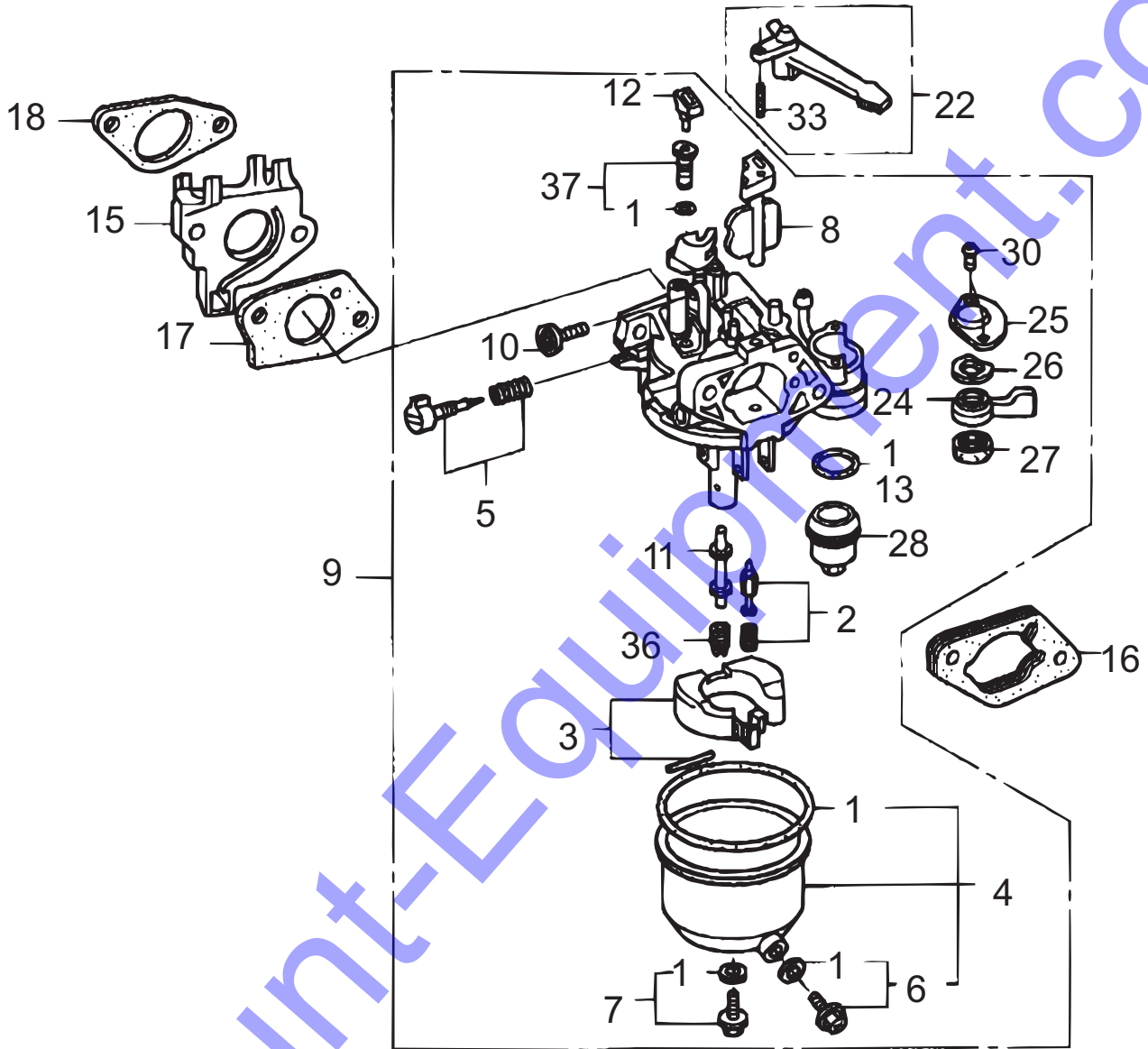
GX390U1SMX2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12209ZE8003	SEAL, VALVE STEM	1	
2	14100ZF6W01	CAMSHAFT ASSY.	1	INCLUDES ITEM W/ #
3	14410ZE3013	ROD, PUSH	2	
4	14431ZE2010	ARM, VALVE ROCKER	2	
5	14441ZE2000	LIFTER, VALVE	2	
6	14451ZE1013	PIVOT, ROCKER ARM	2	
7#	14568ZE1000	SPRING, WEIGHT RETURN	1	
8	14711ZE3000	VALVE, IN.	1	
9	14721ZE3000	VALVE, EX.	1	
10	14751ZE2003	SPRING, VALVE	2	
11	14771ZE2000	RETAINER, IN. VALVE SPRING	1	
12	14773ZE2000	RETAINER, EX. VALVE SPRING	1	
13	14775ZE2010	SEAT, VALVE SPRING	1	
14	14781ZE2000	ROTATOR, VALVE	1	
15	14791ZE2010	PLATE, PUSH ROD GUIDE	1	
16	90012ZE0010	PIVOT BOLT 8MM	2	
17	90206ZE1000	NUT, PIVOT ADJUSTING	2	

GX390U1SMX2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.



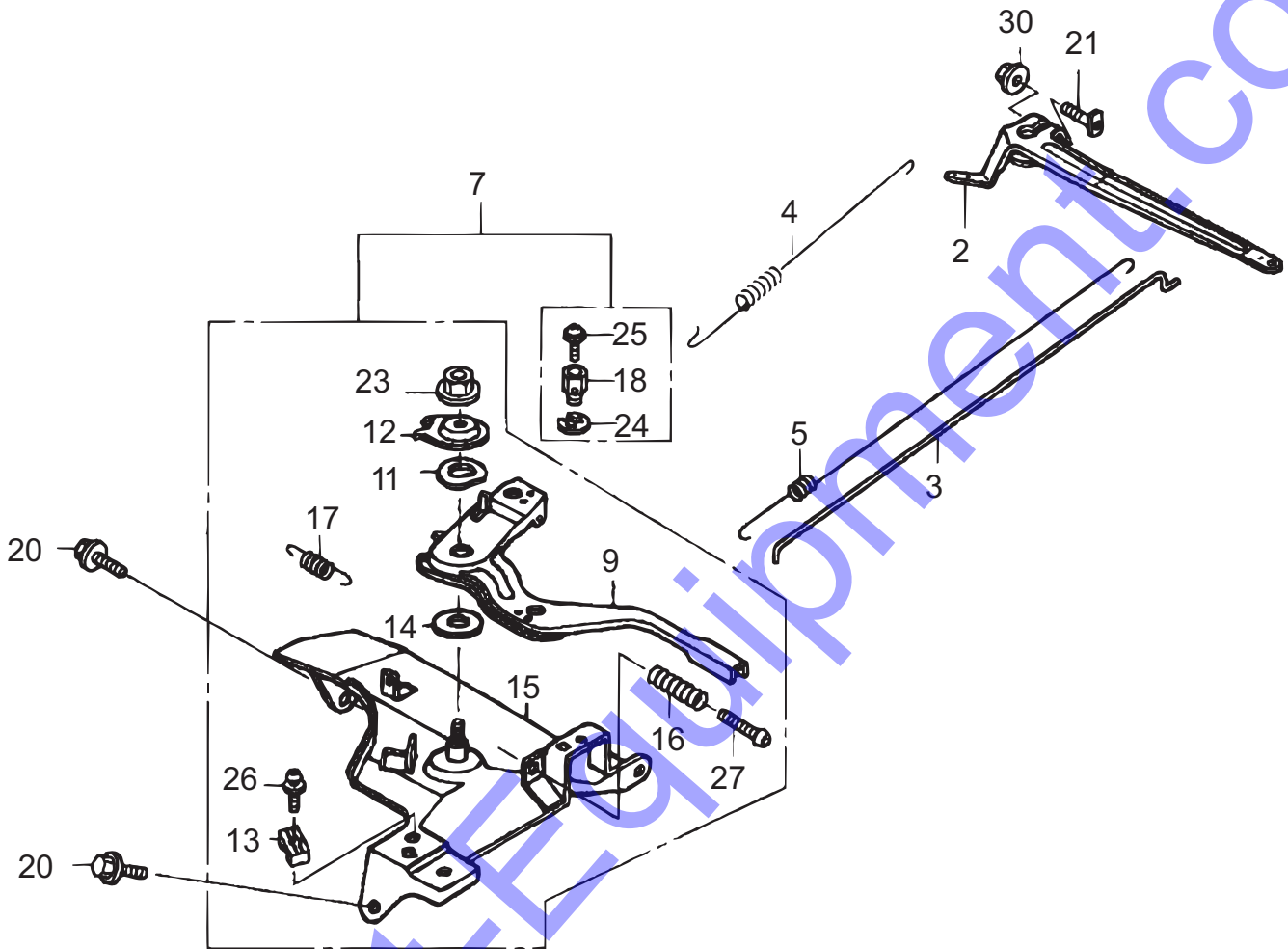
GX390U1SMX2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#%	16010ZE2812	GASKET SET	1	
2#	16011ZA0931	VALVE SET, FLOAT	1	
3#	16013ZA0931	FLOAT SET	1	
4#	16015ZE8005	CHAMBER SET, FLOAT	1	INCLUDES ITEMS W/ %
5#	16016ZH7W01	SCREW SET, PILOT	1	
6#%	16024ZE1811	DRAIN SCREW SET	1	
7#	16028ZE0005	SCREW SET	1	
8#	16044ZE3W20	CHOKE SET	1	
9	16100ZF6V01	CARBURETOR ASSY (BE85B B)	1	INCLUDES ITEMS W/ #
10#	16124ZE0005	SCREW, THROTTLE STOP	1	
11#	16166ZF6V00	NOZZLE MAIN	1	
12#	16172ZE3W10	COLLAR SET	1	
13#	16173001004	PACKING, CUP	1	
15	16211ZF6000	INSULATOR, CARBURETOR	1	
16	16220ZA0702	SPACER COMP., CARBURETOR	1	
17	16221ZF6800	PACKING, CARBURETOR	1	
18	16223ZE3W00	PACKING, INSULATOR	1	
22	16610ZE1000	CHOKE LEVER COMP	1	INCLUDES ITEM W/ +
24#	16953ZE1812	LEVER, COCK	1	
25#	16954ZE1812	PLATE, LEVER SETTING	1	
26#	16956ZE1811	SPRING, COCK LEVER	1	
27#	16957ZE1812	PACKING, FUEL COCK	1	
28#	16967ZE0811	CUP, FUEL STRAINER	1	
30#	93500030060H	SCREW 3X6	3	
33+	9430520122	SPRING PIN 2X12	1	
36#	99101ZH80920	JET, MAIN #92	1	
37#	99204ZA00450	PILOT JET SET #45 *5-5-2	1	

GX390U1SMX2 ENGINE — CONTROL ASSY.

CONTROL ASSY.



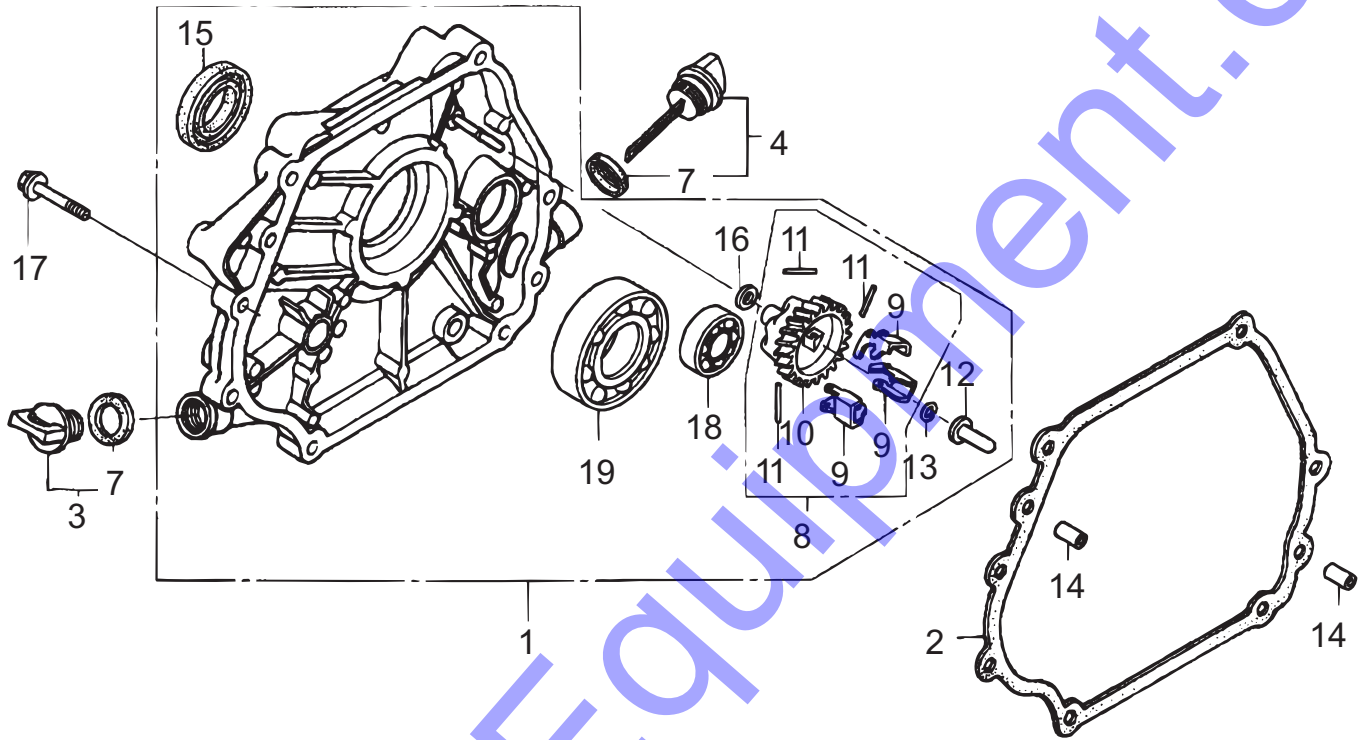
GX390U1SMX2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	16551ZE3000	ARM, GOVERNOR	1	
3	16555ZE3000	ROD, GOVERNOR	1	
4	16561ZE3000	SPRING, GOVERNOR	1	
5	16562ZE3000	SPRING, THROTTLE RETURN	1	
7	16570ZE3W10	CONTROL ASSY. (REMOTE)	1	INCLUDES ITEMS W/ #
9#	16571ZE3W00	LEVER, CONTROL	1	
11#	16574ZE1000	LEVER SPRING	1	
12#	16575ZE2W00	WASHER, CONTROL LEVER	1	
13#	16576891000	HOLDER, CABLE	1	
14#	16578ZE1000	SPACER, CONTROL LEVER	1	
15#	16581ZE3W00	BASE COMP., CONTROL	1	
16#	16584883300	ADJUSTING SPRING	1	
17#	16592883310	SPRING, CABLE RETURN	1	
18#	16594883010	HOLDER, WIRE	1	
20	90013883000	FLANGE BOLT 6X12	2	
21	90015ZE5010	BOLT, GOVERNOR ARM	1	
23#	90114SA0000	LOCK NUT 6MM	1	
24#	90605230000	CIR CLIP	1	
25#	93500040060H	SCREW 4X6	1	
26#	93500050160A	SCREW 5X16	1	
27#	93500050320A	PAN SCREW 5X32	1	
30	9405006000	FLANGE NUT 6MM	1	

GX390U1SMX2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



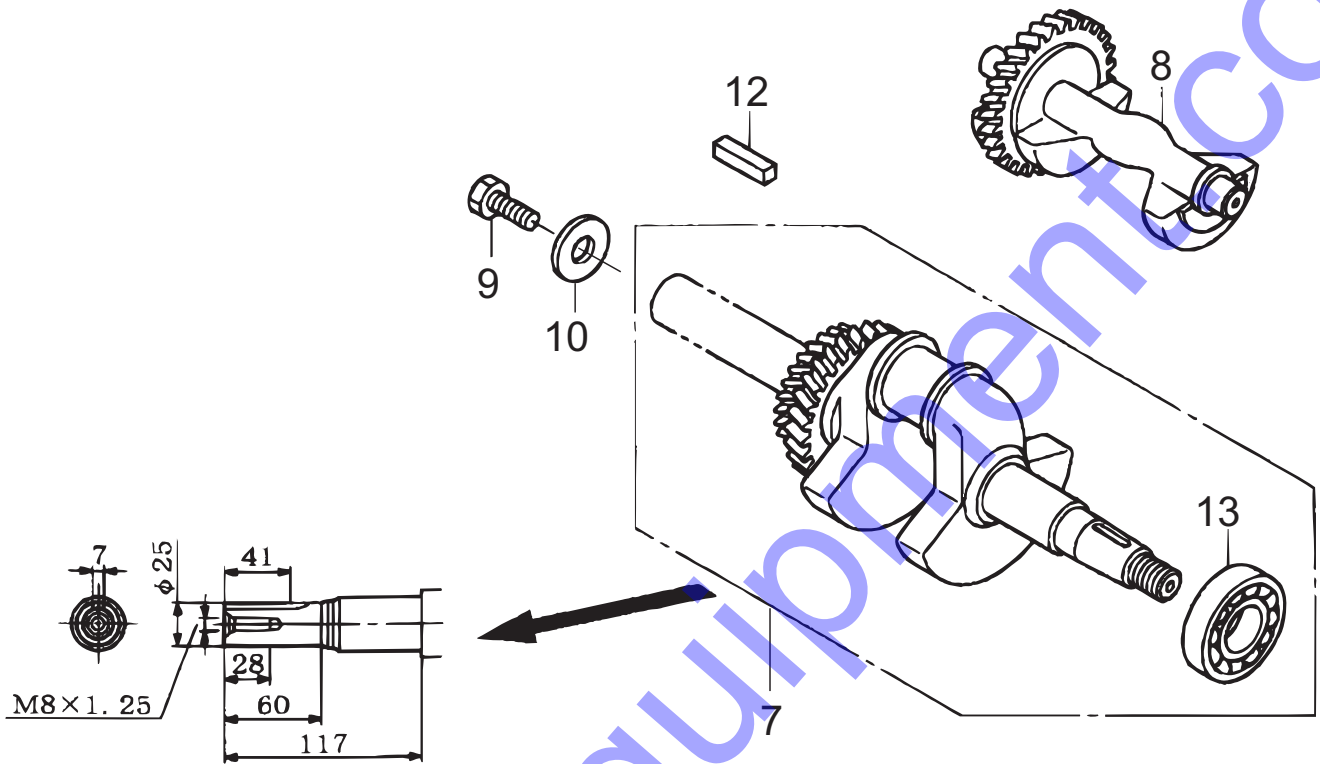
GX390U1SMX2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11300ZE3040	COVER ASSY, CRANKCASE	1	INCLUDES ITEMS W/ #
2	11381ZE3801	PACKING, CASE COVER	1	
3	15600ZG4003	OIL PLUG	1	INCLUDES ITEM W/ %
4	1560073503	CAP ASSY., OIL FILLER	1	INCLUDES ITEM W/ %
7%	15625ZE1003	PACKING, OIL FILLER CAP	2	
8	16510ZE3000	GOVERNOR ASSY.	1	INCLUDES ITEMS W/ +
9#+	16511ZE8000	WEIGHT, GOVERNOR	3	
10#+	16512ZE3000	HOLDER, GOVERNOR WEIGHT	1	
11#+	16513ZE2000	PIN, GOVERNOR WEIGHT	3	
12#	16531Z0A000	SLIDER, GOVERNOR	1	
13#	90602E1000	CLIP, GOVERNOR HOLDER	1	
14	90701HC4000	PIN, DOWEL 8X12	2	
15#	91201ZE3004	OIL SEAL 35X52X8	1	
16#	9410106800	PLAIN WASHER 6MM	1	
17	957010804000	BOLT, FLANGE 8X40	7	
18#	961006202000	BEARING, RADIAL BALL 6202	1	
19#	961006207000	BEARING, RADIAL BALL 6207	1	

GX390U1SMX2 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.



GX390U1SMX2 ENGINE — CRANKSHAFT ASSY.

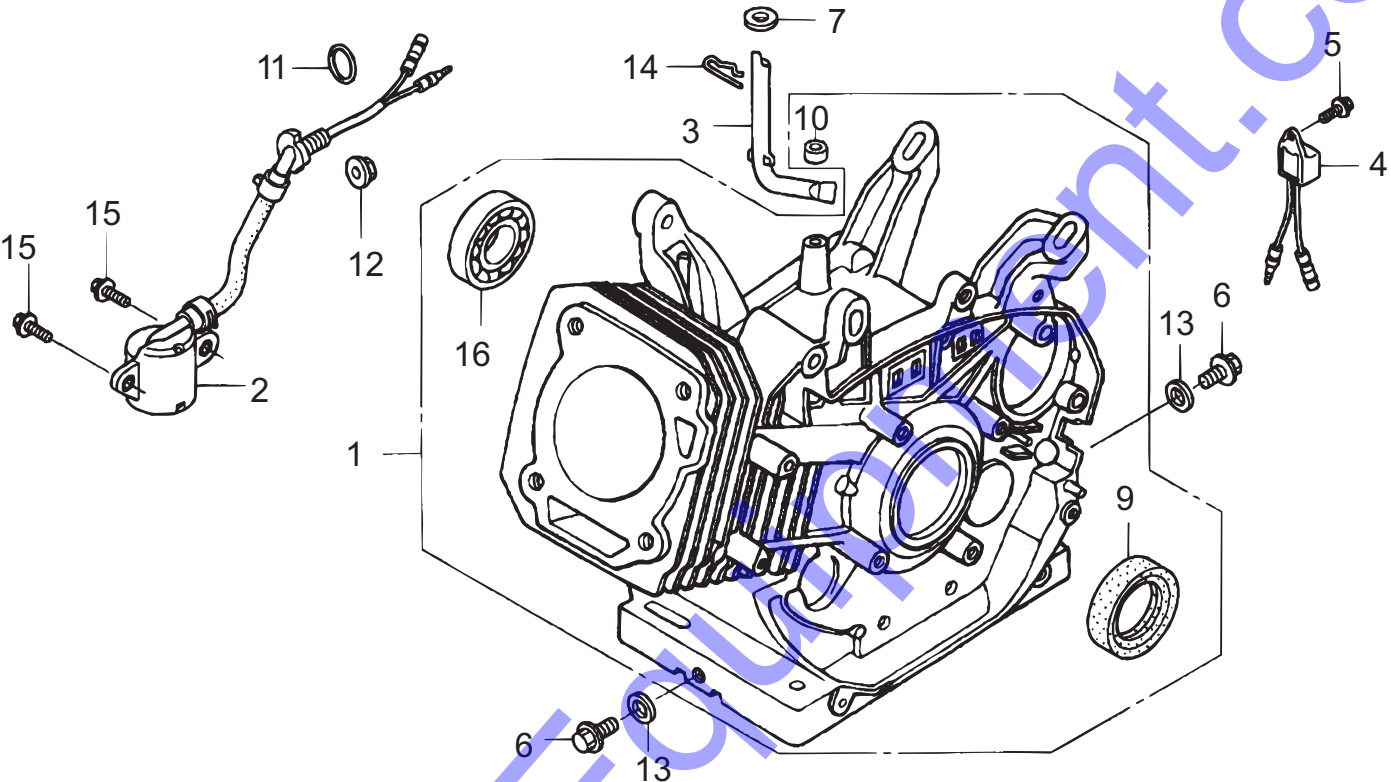
CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
7	13310ZF6W71	CRANKSHAFT CP	1	INCLUDES ITEM W/ #
8	13351ZE3010	WEIGHT, BALANCER	1	
9	92101080250A	BOLT 8X25	1	
10	90534706010	WASHER, LOCK 8MM	1	
12	90741805000	KEY 7X7X33	1	
13#	91001ZF6003	BEARING, RADIAL BALL 6207S	1	

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GX390U1SMX2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.



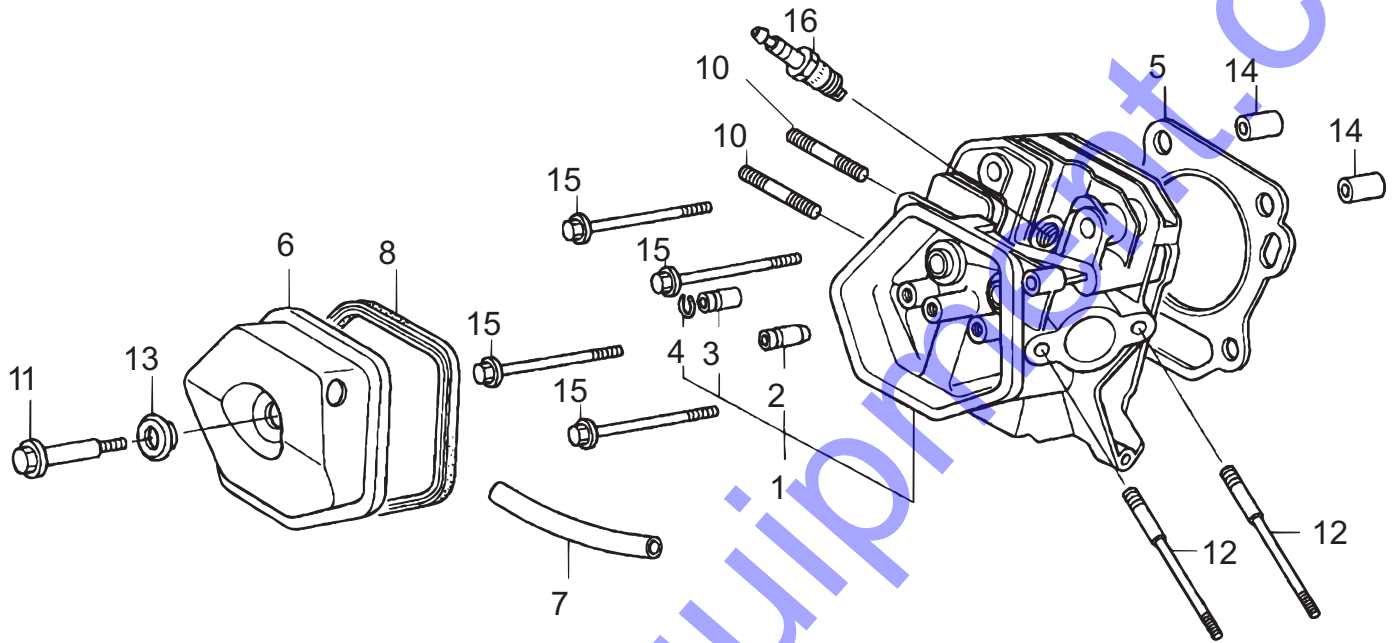
GX390U1SMX2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12000ZF6417	BARREL ASSY, CYLINDER	1	INCLUDES W/ #
2	15510ZE2043	SWITCH ASSY, OIL LEVEL	1	
3	16541ZE3010	SHAFT, GOVERNOR ARM	1	
4	34150ZH7003	ALERT UNIT, OIL	1	
5	90013883000	FLANGE BOLT 6X12	2	
6	90131896650	BOLT, DRAIN PLUG	2	
7	90446KE1000	WASHER 8.2X17X0.8	1	
9#	91201ZE3004	OIL SEAL 35X52X8	1	
10#	91203952771	OIL SEAL 8X14X5	1	
11	91353671004	O-RING 14MM	1	
12	9405010000	FLANGE NUT M10	1	
13	9410912000	WASHER, DRAIN PLUG M12	2	
14	9425110000	PIN, LOCK 10MM	1	
15	957010601200	FLANGE BOLT 6X12	2	
16#	961006202000	BEARING, RADIAL BALL 6202	1	

GX390U1SMX2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.



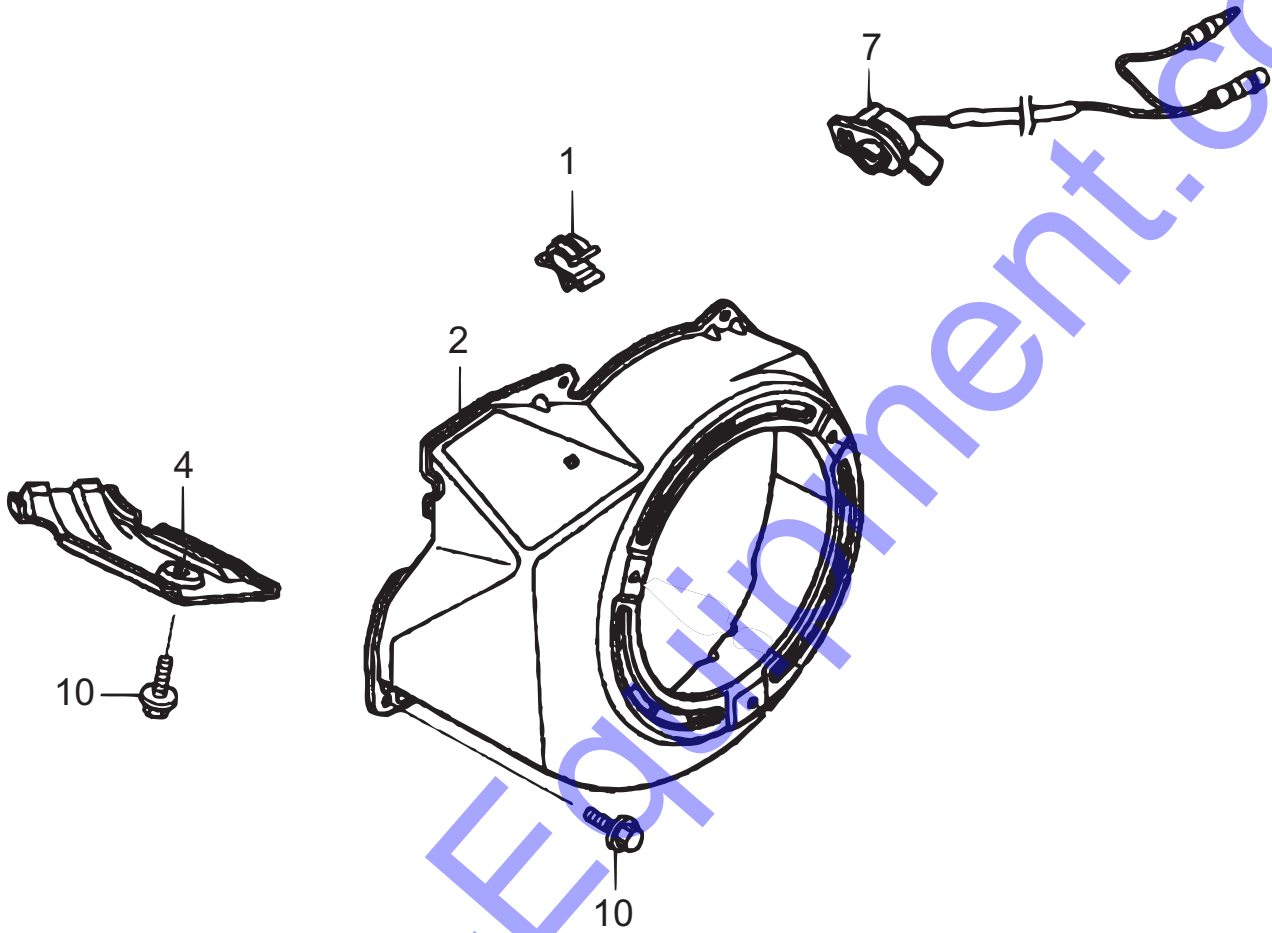
GX390U1SMX2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12200ZF6406	HEAD COMP., CYLINDER	1	INCLUDES ITEMS W/ #
2#	12204ZE2306	GUIDE, IN. VALVE (OVERSIZE)	1	
3#	12205ZE2305	GUIDE, EX. VALVE (OVERSIZE)	1	
4#	12216ZE2300	CLIP, VALVE GUIDE	1	
5	12251ZF6W00	GASKET, CYLINDER HEAD	1	
6	12310ZE2020	COVER COMP., HEAD	1	
7	950051110530	TUBE, 11X105	1	
8	12391ZE2020	PACKING, HEAD COVER	1	
10	92900080320E	BOLT, STUD 8X32	2	
11	90014ZE2000	BOLT, HEAD COVER	1	
12	90042ZE8000	BOLT, STUD 8X31.5	2	
13	90441ZE2010	WASHER COMP., HEAD COVER	1	
14	9430112200	PIN, DOWEL 12X20	2	
15	957251008000	BOLT, FLANGE 10X80	4	
16	9807956846	SPARK PLUG BPR6ES (NGK)	1	

GX390U1SMX2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.



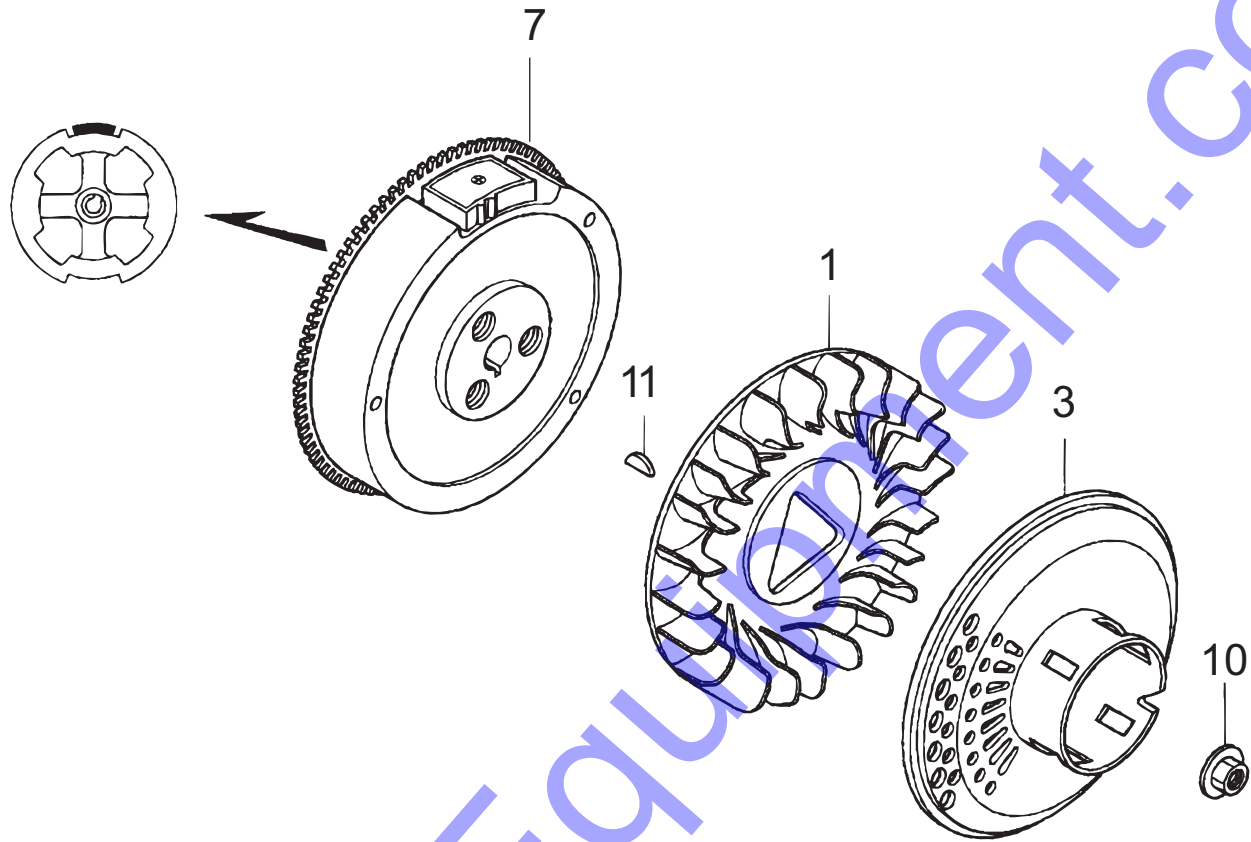
GX390U1SMX2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16731ZE2003	CLIP, TUBE	1	
2	19610ZE3010ZB	COVER CP, FAN/GX390/BLACK	1	
4	19631ZE3W00	SHROUD	1	
7	36100ZF6P81	SWITCH ASSY, ENGINE STOP/U	1	
10	90013883000	FLANGE BOLT 6X12	6	

GX390U1SMX2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.



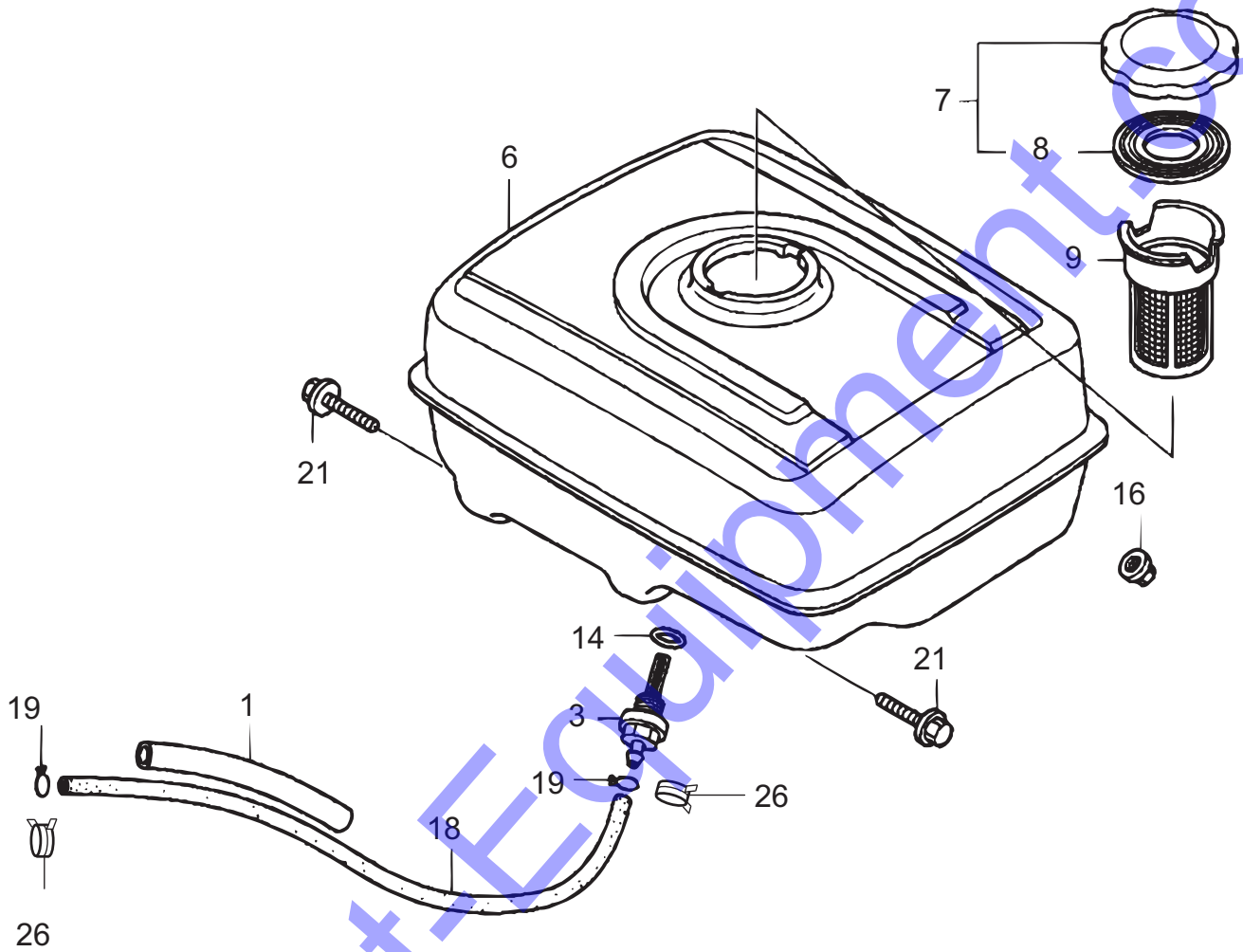
GX390U1SMX2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	19511ZE3000	FAN	1	
3	28450ZE3W11	PULLEY	1	
7	28451ZE3W01	PULLEY	1	
10	90201ZE3V00	NUT	1	
11	90741ZE2000	KEY	1	

GX390U1SMX2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.



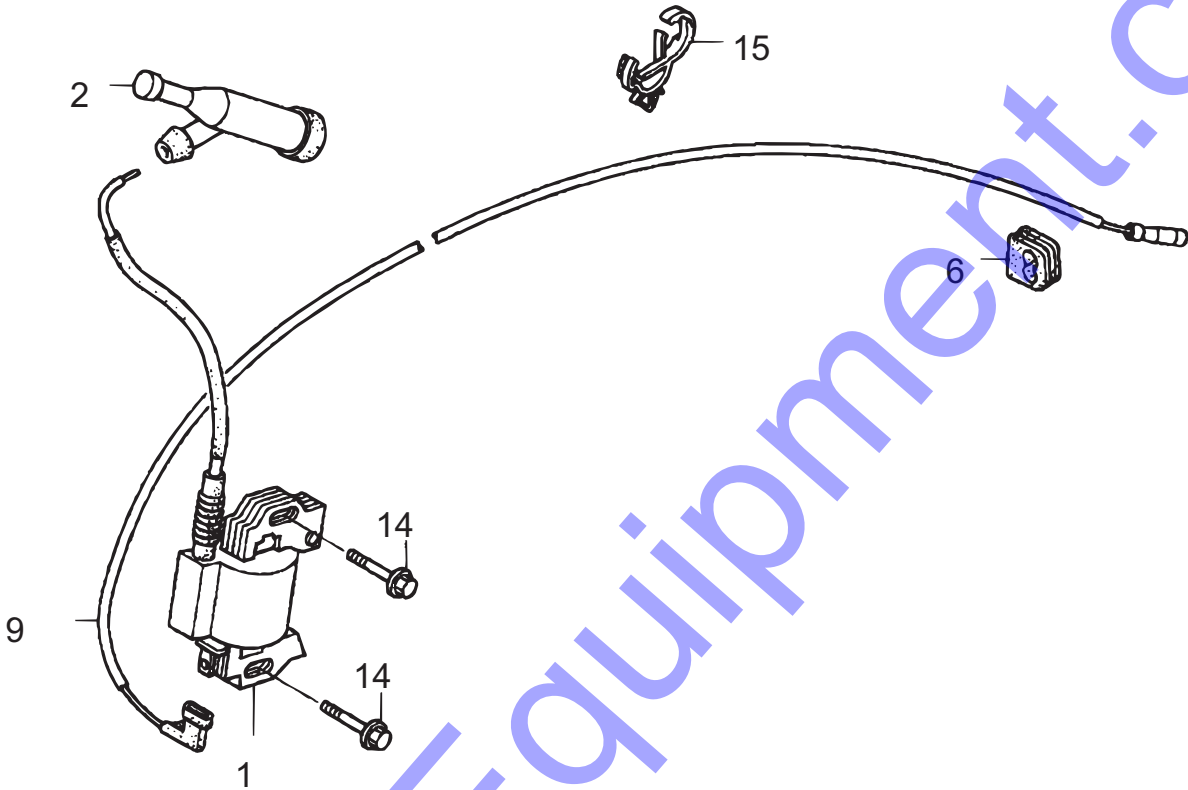
GX390U1SMX2 ENGINE — FUEL TANK ASSY.

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	
3	16955ZE1000	JOINT, FUEL TANK	1	
6	17510ZE3020ZB	TANK CP, FUEL/BLACK/GX390	1	
7	17620Z0T305	FUEL TANK CAP CP	1	INCLUDES ITEM W/ #
8#	17631Z0T812	PACKING, FUEL FILLER CAP	1	
9	17672ZE2W01	FUEL FILTER	1	
14	91353671004	O-RING 14MM	1	
16	9405008000	FLANGE NUT M8	2	
18	91424Z5L801	TUBE, FUEL 4.5X235(FKM)	1	S/N 1105014 AND ABOVE
18	950014523540	TUBE, FUEL 4.5X235	1	S/N 1105013 AND BELOW
19	9500202080	CLIP, TUBE	2	S/N 1105013 AND BELOW
21	957010802500	FLANGE BOLT 8X25	2	
26	950024080008	CLAMP, TUBE(D8)	1	S/N 1105014 AND ABOVE

GX390U1SMX2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.



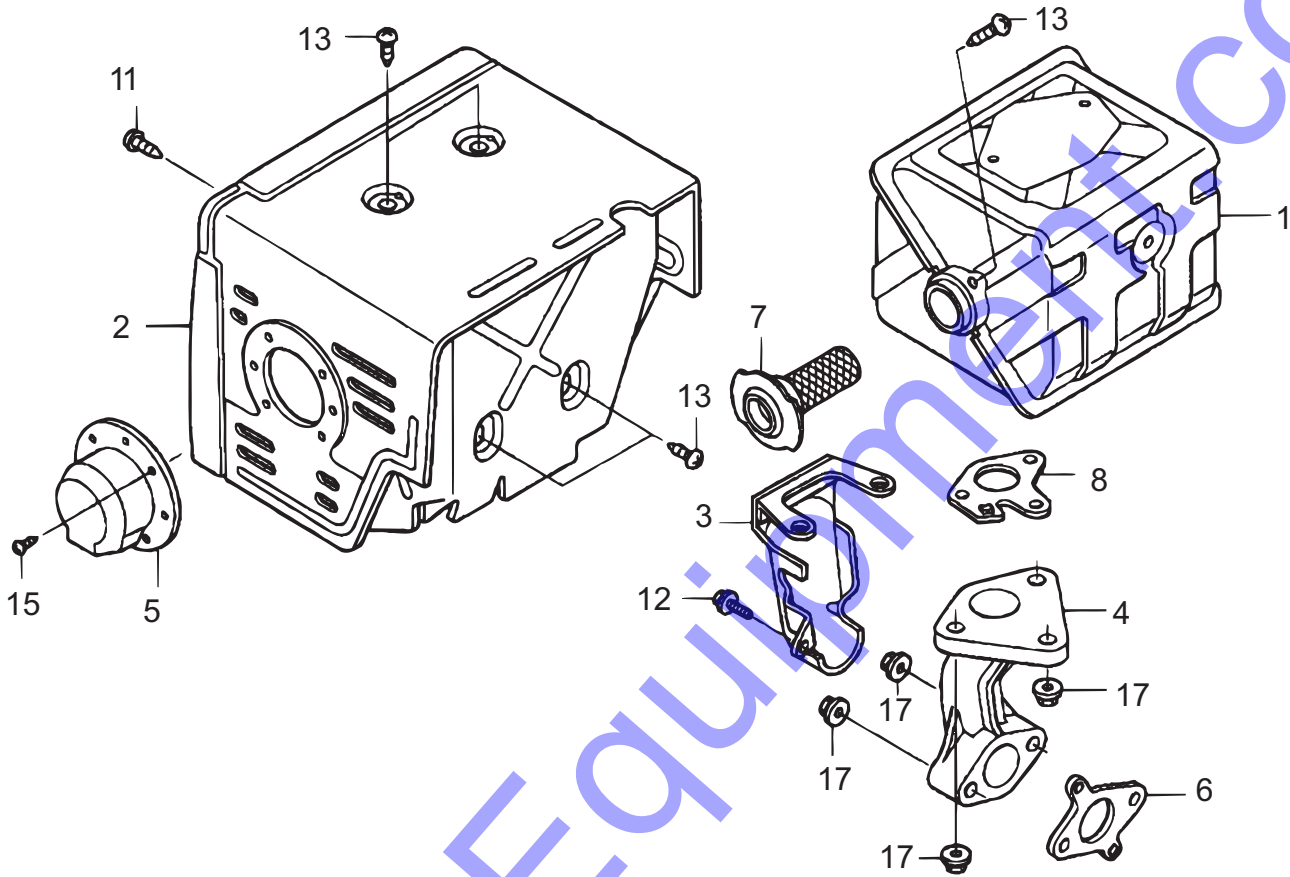
GX390U1SMX2 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30500ZF6W02	COIL ASSY, IGNITION/GX390	1	
2	30700ZE1013	CAP ASSY	1	
6	31512ZE2000	GROMMET, CORD	1	
9	36101ZE2701	CORD, STOP SWITCH (430MM)	1	
14	90015883000	FLANGE BOLT 6X28	2	
15	90684ZA0601	CLIP, HARNESS	1	

GX390U1SMX2 ENGINE — MUFFLER ASSY.

IMUFFLER ASSY.



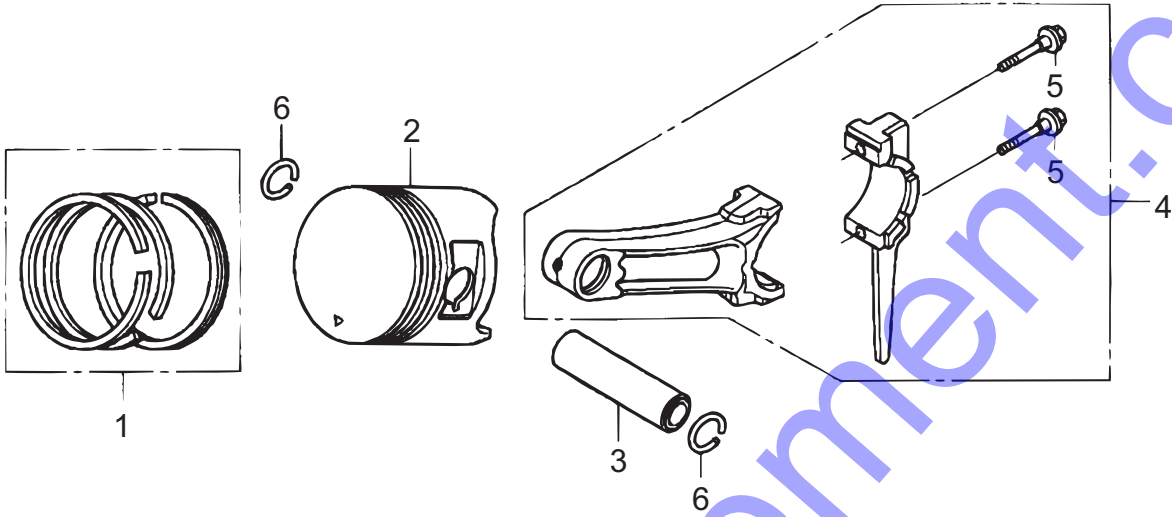
GX390U1SMX2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18310ZE2W61	MUFFLER COMP. (100DB)	1	
2	18320ZE2W61	PROTECTOR COMP., MUFFLER	1	
3	18323ZE3W40	PROTECTOR, EX. PIPE	1	
4	18330ZE2W00	PIPE, EXHAUST	1	
5	18331ZE3810	CAP, MUFFLER	1	
6	18333ZF6W01	GASKET, EX. PIPE	1	
7	18355ZE2W00	ARRESTER, SPARK	1	
8	18381ZE2W10	GASKET, MUFFLER (ARRESTER)	1	
11	90006ZE2000	TAPPING SCREW 6X10	1	
12	90013883000	FLANGE BOLT 6X12	1	
13	90050ZE1000	TAPPING SCREW 5X8	5	
15	90055ZE1000	TAPPING SCREW 4X6	3	
17	9405008000	FLANGE NUT M8	5	

GX390U1SMX2 ENGINE — PISTON ASSY.

PISTON ASSY.



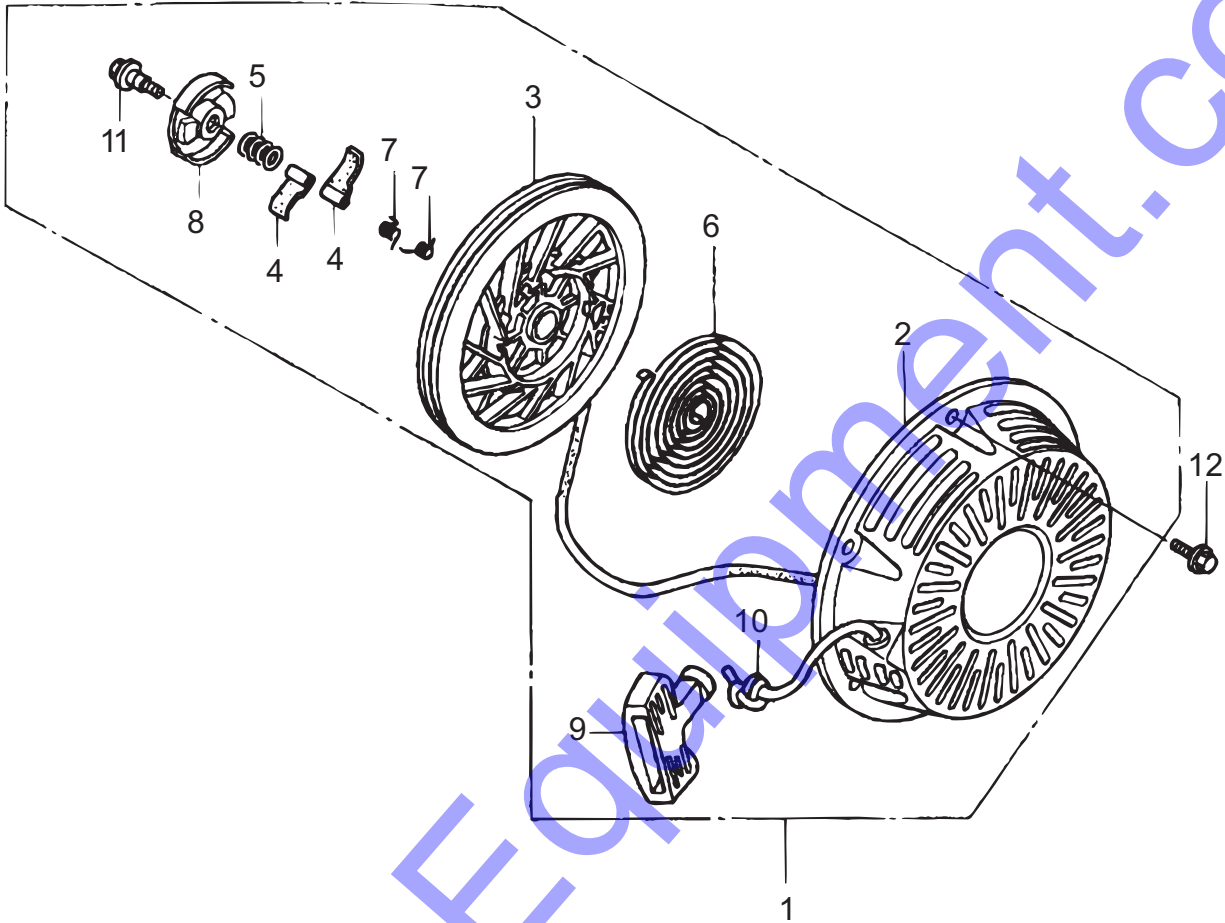
GX390U1SMX2 ENGINE — PISTON ASSY.

PISTON ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010ZF6013	RING SET, PISTON(STD)	1	
1	13011ZF6003	RING SET, PISTON(0.25)	1	
1	13012ZF6003	RING SET, PISTON(0.50)	1	
1	13013ZF6003	RING SET, PISTON(0.75)	1	
2	13101ZF6W00	PISTON (STD.)	1	
2	13102ZF6W00	PISTON (0.25)	1	
2	13103ZF6W00	PISTON (0.50)	1	
2	13104ZF6W00	PISTON (0.75)	1	
3	13111ZF6W00	PIN, PISTON	1	
4	13200ZE3020	ROD, ASSY CONNECTING, STD	1	INCLUDES ITEM W/ #
4	13200ZE3315	ROD, ASSY CONNECTING 0.25	1	
5#	90001ZE8000	BOLT, CONNECTING ROD	2	
6	90601ZE3000	CLIP, PISTON PIN 20MM	2	

GX390U1SMX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



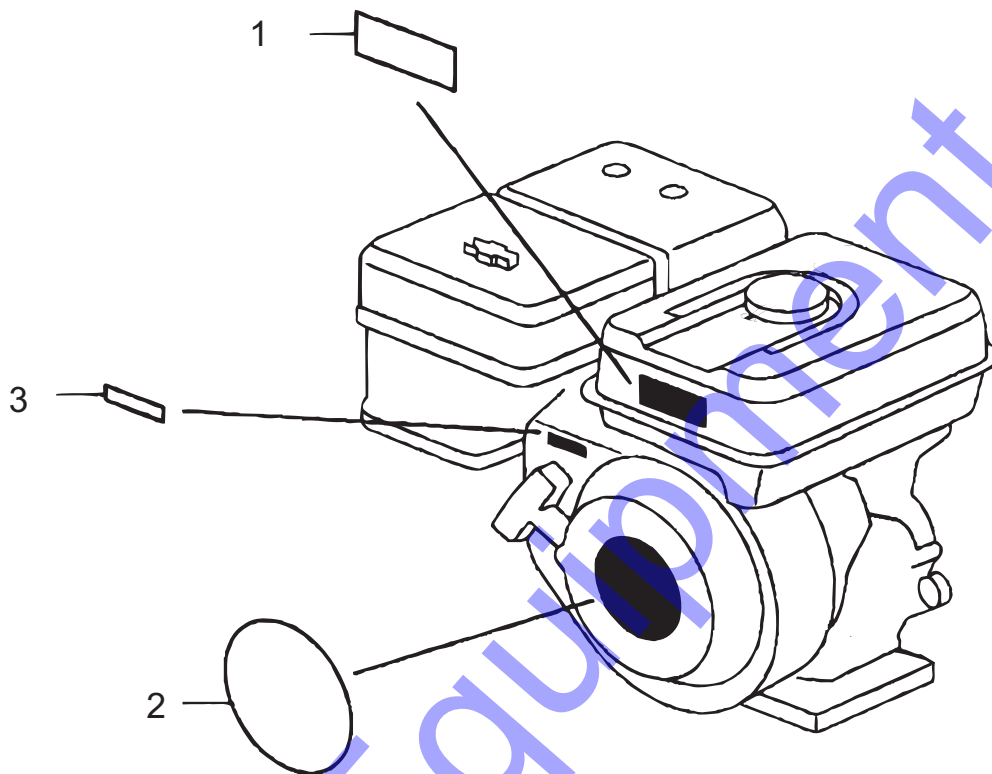
GX390U1SMX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400ZE3W01ZB	STARTER ASSY	1	INCLUDES ITEMS W/ #
2#	28410ZE3W01ZB	CASE CP	1	
3#	28421ZE3W01	PULLEY	1	
4#	28422ZE2W01	RATCHET	2	
5#	28441ZE2W01	SPRING	1	
6#	28442ZE2W01	SPRING	1	
7#	28443ZE2W01	SPRING	2	
8#	28444ZE2W01	RETAINER	1	
9#	28461ZE2W02	GRIP	1	
10#	28462ZE3W01	ROPE	1	
11#	90004ZE2W01	SCREW	1	
12	90008ZE2003	BOLT	1	

GX390U1SMX2 ENGINE — LABELS ASSY.

LABELS ASSY.



GX390U1SMX2 ENGINE — LABELS ASSY.

RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	87516ZH7000	MARK, OPERATOR CAUTION	1	
2	87521ZF6W03	EMBLEM	1	
3	87532ZH7000	MARK, THROTTLE INDICATION	1	

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