

OPERATION AND PARTS MANUAL



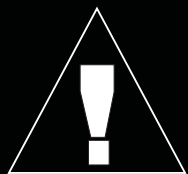
Plate Compactor *Mikasa* **Models** **MVC-70H/W**

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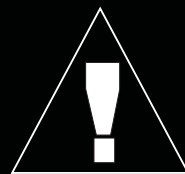
Revision #0 (03/04/04)



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WARNING



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.

HERE'S HOW TO GET HELP

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

CANADA

PARTS/SERVICE/WARRANTY

TOLL FREE 1-877-963-4411

PHONE: 1-514-351-2252

FAX: 1-514-351-3343

WORLD WIDE CORPORATE OFFICE

PARTS DEPARTMENT

800-427-1244 or 310/537-3700

FAX: 800-672-7877 or

310- 537-1173

SERVICE DEPARTMENT

800-478-1244 or 310-537-3700

FAX: 310-537-3927

WARRANTY DEPARTMENT

800-421-1244, EXT.279 or

310-537-3700

FAX: 310- 537-1173

MAIN

800-421-1244 or 310-537-3700

FAX: 310-537-3927

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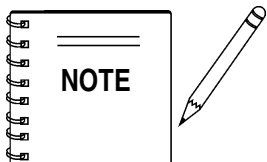
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Honda GX120K1SM12 Engine

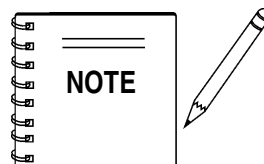
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*Specification and part number
are subject to change without
notice.*



*As a continuing effort to
update our parts book, contact
the **MULTIQUIP** literature
department for the latest
revision of your "Operation
and Parts Manual"*

PARTS ORDERING PROCEDURES

When ordering parts, please supply the following information:

- ☐ Dealer account number
- ☐ Dealer name and address
- ☐ Shipping address (if different than billing address)
- ☐ Return fax number
- ☐ Applicable model number
- ☐ Quantity, part number and description of each part
- ☐ Specify preferred method of shipment:
 - ✓ FedEx or UPS Ground
 - ✓ FedEx or UPS Second Day or Third Day
 - ✓ FedEx or UPS Next Day
 - ✓ Federal Express Priority One
 - ✓ DHL
 - ✓ Truck

Note: Unless otherwise indicated by customer, all orders are treated as "Standard Orders", and will ship within 24 hours. We will make every effort to ship "Air Shipments" the same day that the order is received, if prior to 2PM west coast time. "Stock Orders" must be so noted on fax or web forms.



Here's how to get help...

Please have the model and serial number on hand when calling.

Parts Department

800-427-1244
310-537-3700

Fax: 800-672-7877
Fax: 310-637-3284

Mayco Parts

800-306-2926
310-537-3700

Fax: 800-672-7877
Fax: 310-637-3284

Service Department

800-478-1244
310-537-3700

Fax: 310-537-4259

MQ Power Service Department

800-835-2551
310-537-3700

Fax: 310-638-8046

Warranty Department

800-421-1244, Ext. 279
310-537-3700, Ext. 279

Fax: 310-537-1173

Multiquip's Main Phone Numbers

800-421-1244
310-537-3700

Fax: 310-537-3927

Place Your Parts Order Via Web or Fax For Even More Savings!

Extra Discounts!

All parts orders which include complete part numbers and are received by our automated web parts order system, or by fax qualify for the following extra discounts:

Ordered via	Standard orders	Stock orders (\$750 list and above)
Fax	3%	10%
Web	5%	10%

Special freight allowances when you order 10 or more line items via Web or Fax! **

FedEx Ground Service **at no charge for freight**
No other allowances on freight shipped by any other carrier.

NOTE: DISCOUNTS ARE SUBJECT TO CHANGE



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WWW: multiquip.com

Direct TOLL-FREE access to our Parts Department:

Toll-free nationwide — 800-427-1244

MVC-70H/W — SPECIFICATIONS

TABLE 1. COMPACTOR SPECIFICATIONS

Model	MVC-70H/W
Centrifugal Force	1,220 kg (2,700 lbs.)
Vibration Frequency	5,600 vpm (93 Hz)
Maximum Forward Speed	25 m/min (82 ft/min)
Plate Size (L x W)	541 x 350 mm (21.3 x 13.8 in)
Overall Dimensions (L x W x H)	879 x 350 x 886 mm (4.6 x 13.8 x 34.9 in)
Operating Weight (with water tank)	86 kg (190 lbs.)
Operating Weight (without water tank)	76 kg (168 lbs.)
Maximum Area of Compaction	543 sq. m/hr (5,865 sq. ft/hr)
Water Tank Capacity (Option)	10 liters (2.64 gallons)

Table 2. Specifications (Engine)

Engine	Model	HONDA GX120K1SM12
	Type	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine
	Bore X Stroke	2.4 in. x 1.7 in. (60 mm x 42 mm)
	Displacement	119 cc (7.2 cu-in)
	Max Output	4.0 H.P./3600 R.P.M.
	Fuel Tank Capacity	0.66 US gal. (2.5 liters)
	Fuel	Unleaded Automobile Gasoline
	Lube Oil Capacity	.60 liters (0.63 qts)
	Speed Control Method	Centrifugal Fly-weight Type
	Starting Method	Recoil Start
Dimension (L x W x H)		11.7 x 13.4 x 12.5 in. (297 x 341 x 318 mm)
Dry Net Weight		28.7 lbs (13 Kg.)

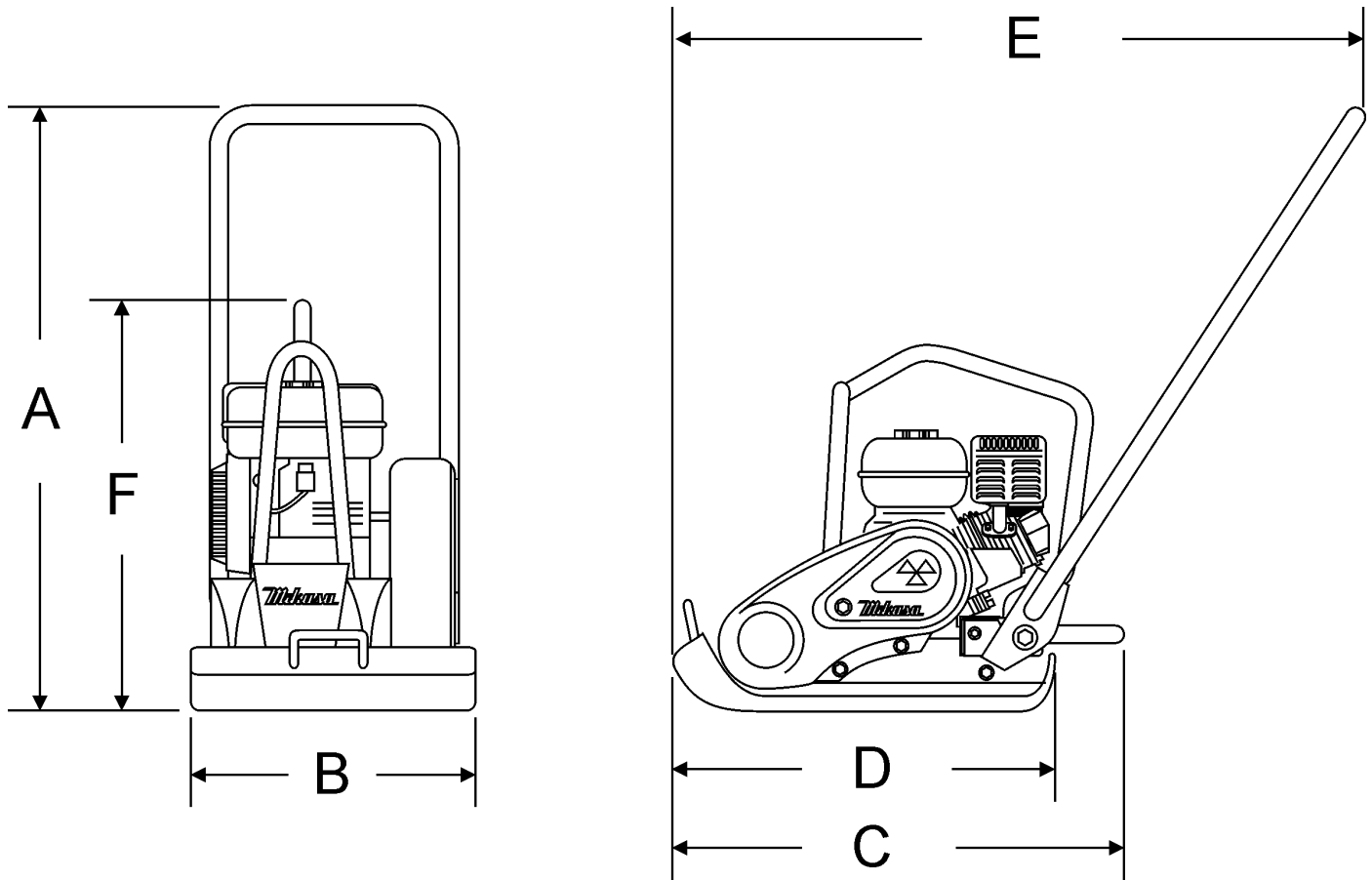


TABLE 3. DIMENSIONS		
REFERENCE LETTER	DESCRIPTION	DIMENSION in. (mm)
A	Height (Handle Upright)	914 mm (36 in.)
B	Width	420 mm (16.5 in.)
C	Length (Handle Upright)	635 mm (25 in.)
D	Plate Length	510 mm (20 in.)
E	Length (Handle Lowered)	914 mm (36 in.)
F	Height (Compactor Only)	635 mm (25 in.)
	Shipping Dimensions	686 x 381 x 711 mm (27 x 15 x 28 in.)

Figure 1. MVC-70H/W Plate Compactor Dimensions

MVC-70H/W — 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.

NOTE

This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of the MQ Multiquip Plate Compactor (MVC-70H/W). 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 MVC-70H/W Plate Compactor operation will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

HAZARD SYMBOLS



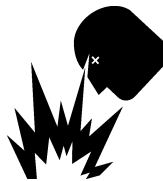
Lethal Exhaust Gases



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.



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. **NEVER** use fuel as a cleaning agent.



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.



Rotating Parts



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

MVC-70H/W — SAFETY MESSAGE ALERT SYMBOLS



Accidental Starting



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



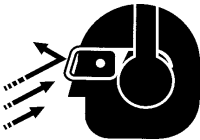
Respiratory Hazard



ALWAYS wear approved respiratory protection.



Sight and Hearing hazard

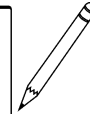
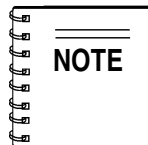


ALWAYS wear approved eye and hearing protection.



Equipment Damage Messages

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



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

MVC-70H/W — RULES FOR SAFE OPERATION

CAUTION:



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 the MVC-70H/W Plate Compactor:

GENERAL 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.

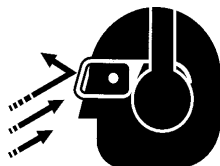


- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **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.

- **ALWAYS** wear proper respiratory (mask), hearing and eye protection equipment when operating the rammer.



- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.

- **ALWAYS** check the machine for loosened threads or bolts before starting.

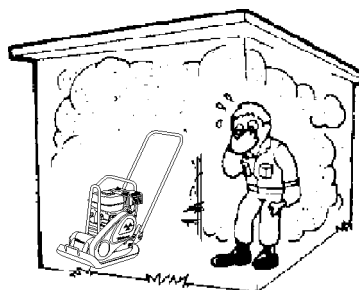
- Manufacture does not assume responsibility for any accident due to equipment modifications.

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



- **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 section of this compactor requires an adequate free flow of cooling air. Never operate the 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 compactor or engine and may cause injury to people. Remember the compactor's engine gives off **DEADLY** carbon monoxide gas.



- **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 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.



MVC-70H/W — RULES FOR SAFE OPERATION

- **NEVER** Run engine without air filter. Severe engine may occur.
- **ALWAYS** service air cleaner frequently to prevent carburetor malfunction.
- **ALWAYS** be sure the operator is familiar with proper safety precautions and operations techniques before using compactor.
- **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.
- **NEVER** use accessories or attachments, which are not
- **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.
- **NEVER** Run engine without air cleaner. Severe engine damage may occur.
- **ALWAYS** read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- **ALWAYS** be sure the operator is familiar with proper safety precautions and operations techniques before using pump.
- **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.
- Refer to the **HONDAEngine Owner's Manual** for engine technical questions or information.

Loading and Unloading (Crane)

- 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 hook of guard frame on compactor.
- **NEVER** lift the machine while the engine is running.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- Use one point suspension hook and lift straight upwards.
- **NEVER** allow any person or animal to stand underneath the machine while lifting.
- Try not to lift machine to unnecessary heights.

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 rope.

Emergencies

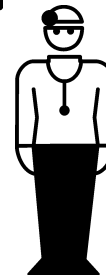
- **ALWAYS** know the location of the nearest **fire extinguisher**.



- **ALWAYS** know the location of the nearest **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.



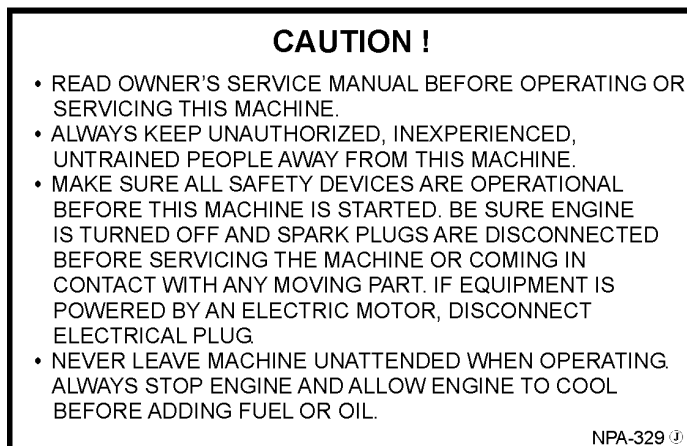
Maintenance Safety

- **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 plastic containers to dispose of hazardous waste.
- **DO NOT** pour waste, oil or fuel directly onto the ground, down a drain or into any water source

MVC-70H/W — OPERATION AND SAFETY DECALS

Machine Safety Decals

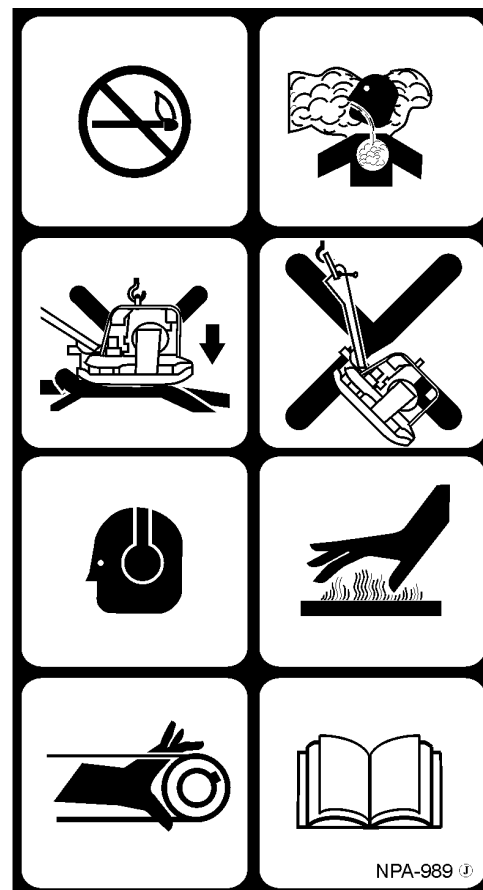
The MVC-70H/W Plate Compactor is equipped with a number of safety decals (Figure 2). These decals are provided for operator safety and maintenance information. The illustration below shows these decals as they appear on the machine. Should any of these decals become unreadable, replacements can be obtained from your dealer.



P/N: 920203290



CONTACT
MQ PARTS DEPT.



P/N: 920203989

Mikasa

P/N: 920101410



P/N: 920201580



P/N: 920105070

Figure 2. Operation and Safety Decals

MVC-70H/W — GENERAL INFORMATION

Definition of Plate Compactor

The Mikasa MVC-70H/W is a walk behind, plate compactor designed for the compaction of sand, mixed soils and asphalt. This plate compactor is a powerful compacting tool capable of applying a tremendous force in consecutive high frequency vibrations to a soil surface. Its applications include compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

The MVC-70H/W 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 5,600 vpm (vibrations per minute). The travel speed of the compactor is approximately 82 ft./minute (25 meters/minute).

Engine

The Mikasa MVC-70H/W Plate Compactor is equipped with a Honda GX120K1SM12 gasoline engine.

Controls

Before starting the MVC-70H/W Plate Compactor identify and understand the function of the controls and components as indicated Figure 3.

WARNING:



To avoid injuries and damage to the equipment, **ALWAYS** read and understand contents of operation manual before operating equipment.



MVC-70H/W — COMPONENTS (PLATE COMPACTOR)

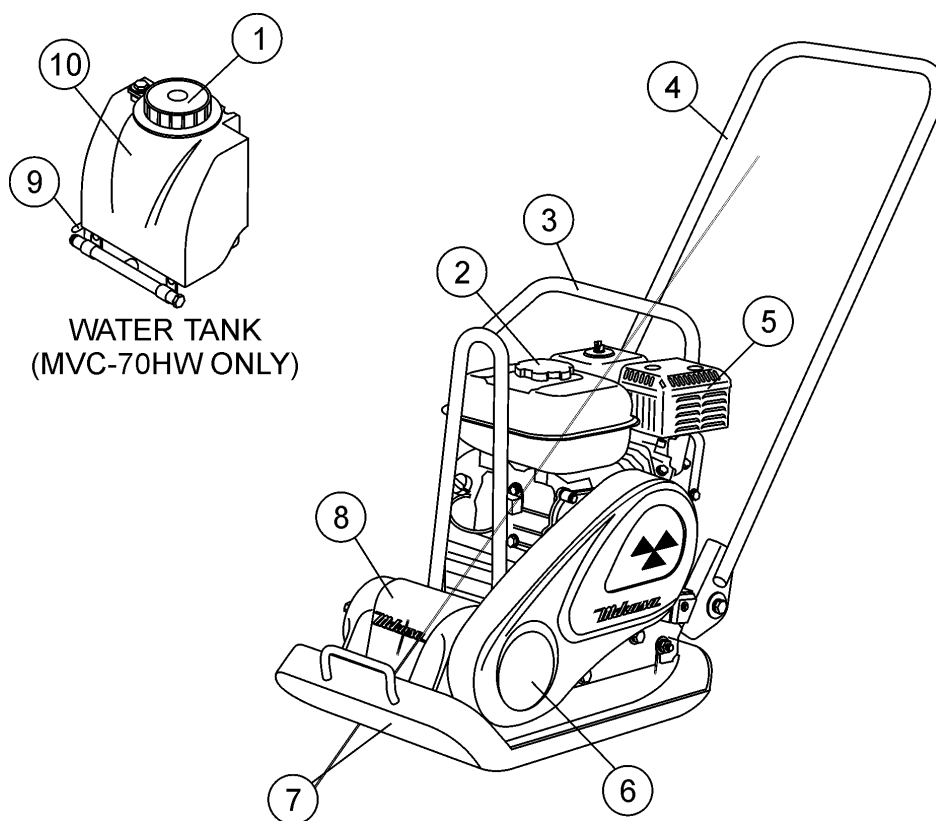


Figure 3. MVC-70H/W Plate Compactor Components

Figure 3 shows the location of the components and general maintenance parts. The function of each component is described below:

1. **Water Tank Cap (for MVC-70HW only)** – Remove this cap to add water to the water tank.
2. **Fuel Tank Cap** – Remove this cap to add fuel.
3. **Lifting Bail** – When lifting of the compactor is required either by forklift, crane etc., tie rope or chain around this lifting point.
4. **Handle Bar** – When operating the compactor use this handle bar to maneuver the compactor.
5. **Gasoline Engine** – This plate compactor uses a HONDA GX120K1SM12 HONDA engine. Refer to the HONDA owner's manual for engine information.
6. **Belt Cover** – Remove this cover to gain access to the V-belts. **NEVER** run the compactor without the V-belt cover. If the V-belt cover is not installed, the possibility exist that your hand may get caught between the V-belt and clutch, thus causing serious injury and bodily harm.
7. **Vibrating Plate** – A flat, open plate made of durable cast iron construction used in the compacting of soil.
8. **Vibration Case** – Encloses the eccentric, gears and counter weights.
9. **Water Shut-Off Valve (for MVC-70HW only)** – Turn this valve downward to let water flow from the water tank to the water tube.
10. **Water Tank (for MVC-70HW only)** – Holds 10.6 quarts (10 liters) of water, removable no tools required.

MVC-70H/W — COMPONENTS (HONDA GX120K1SM12 ENGINE)

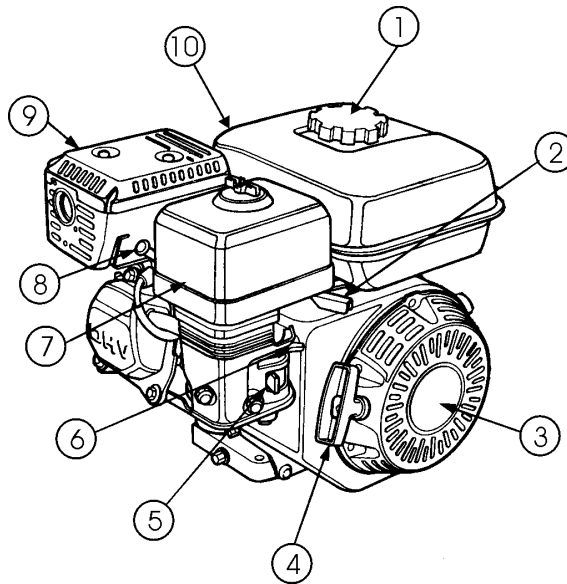


Figure 4. Engine Controls & Components

INITIAL SERVICING

The engine (Figure 4) 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 Filler Cap** – Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.



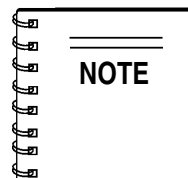
WARNING

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.

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) for HONDA engine. 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.

Before Starting

1. Read safety instructions at the beginning of manual.
2. Clean the compactor, removing dirt and dust. Particularly, the bottom of the plate, engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If the air filter is dirty, blow through the air filter cartridge from the inside, moving a jet of dry compressed air up and down until all dust is removed. Otherwise replace air filter with a new one.
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 plate compactor on secure level ground with the engine stopped.
2. Remove the filler cap/dipstick from the engine oil filler hole (Figure 5) and wipe it clean.

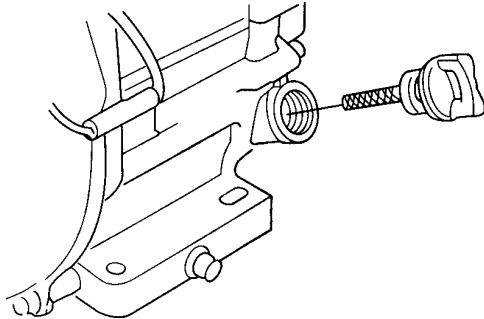


Figure 5. Engine Oil Dipstick

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 6), fill to the edge of the oil filler hole with the recommended oil type (Table 4).

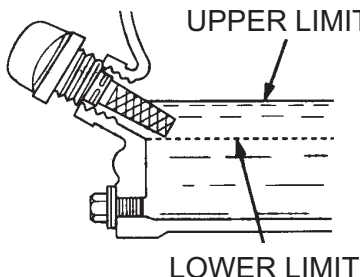
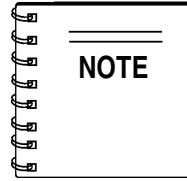


Figure 6. Engine Oil Dipstick



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 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

Gasoline 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.

Vibrator Oil Check

1. Place the MVC-70H/W plate compactor horizontally on a flat surface. Make sure the compactor is level when checking the oil in the vibrator assembly.
2. Check vibrator oil level by removing the plug (vibrator oil gauge) as shown in Figure 7. The oil level should be up to the oil plug. If oil is required, replace using only SAE 10W-30 motor oil.

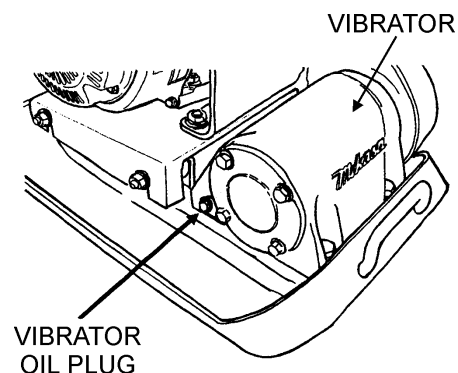


Figure 7. Vibrator Oil Plug

V-Belt Check

CAUTION:



NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 8) gets caught between the V-belt and the clutch. Always use safety gloves.

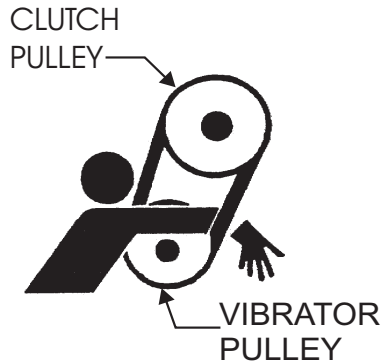


Figure 8. V-Belt Hazard

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

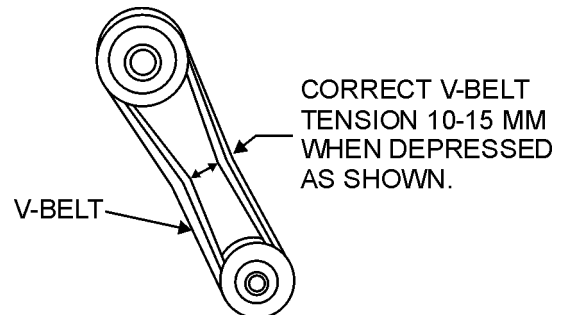


Figure 10. V-Belt Tension

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 .

1. To check the V-belt tension, remove the bolts that secure the belt cover to the frame as shown in Figure 9.

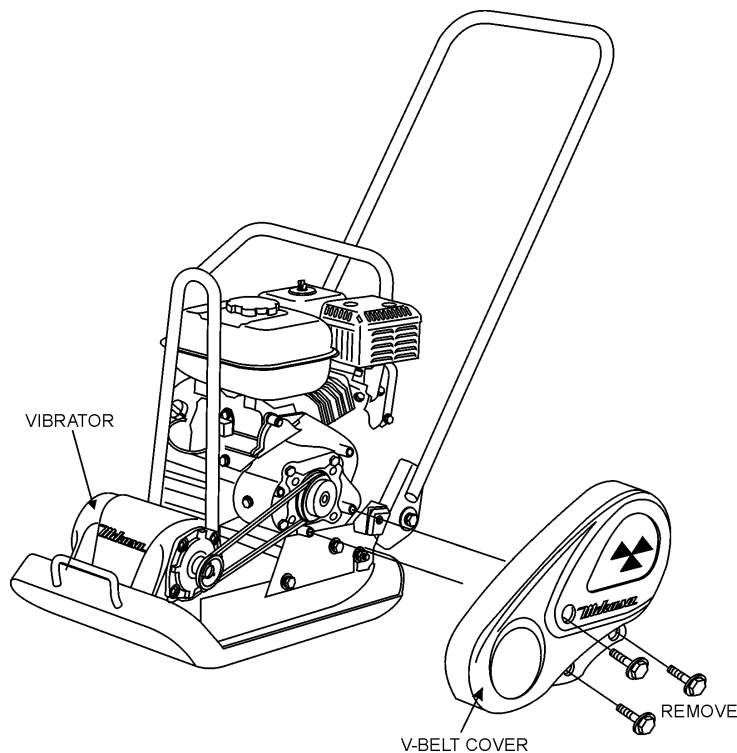
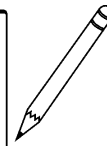
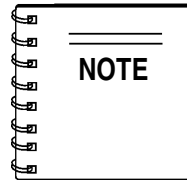


Figure 9. V-Belt Cover Removal

CAUTION:



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



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

1. Place the **fuel valve lever** (Figure 11) in the "ON" position.

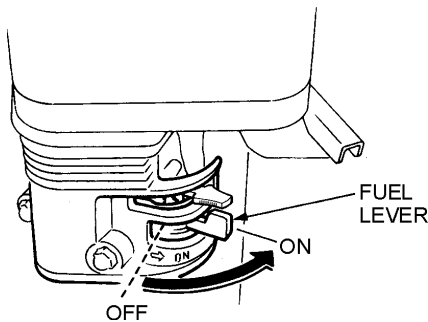


Figure 11. Fuel Valve Lever

2. Place the **Engine ON/OFF switch** (Figure 12) in the "ON" position.

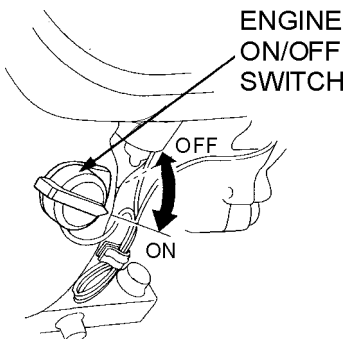


Figure 12. Engine ON/Off Switch

3. Place the **Choke Lever** (Figure 13) in the "OPEN" position.

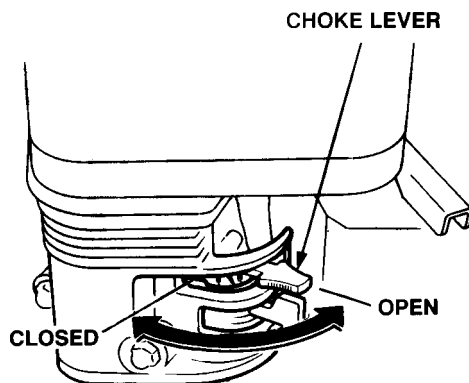


Figure 13. Choke Lever

4. Place the **throttle lever** (Figure 14) halfway between **fast** and **slow**.

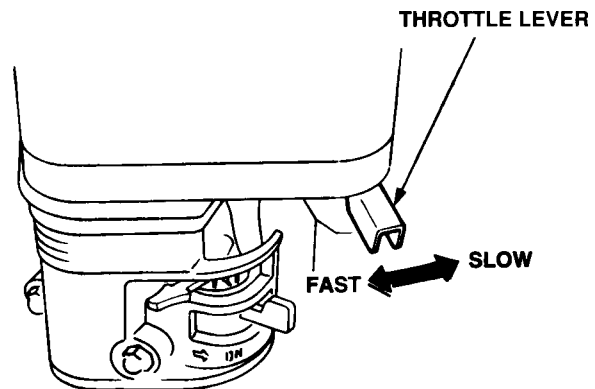


Figure 14. Throttle Lever

5. Grasp the starter grip (Figure 15) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding the compression point. Rewind the rope a little from that point and pull out sharply.

CAUTION:



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

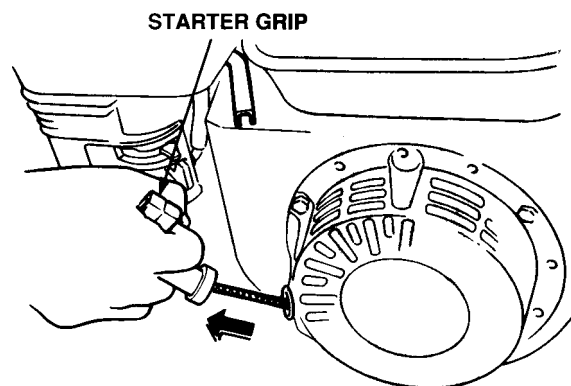


Figure 15. Starter Grip

6. If the engine has started, slowly return the choke lever (Figure 13) to the **CLOSED** position. If the engine has not started repeat steps 1 through 5.
7. Before the compactor is put into operation run the engine for 3-5 minutes.
8. Check for abnormal engine noises or fuel leaks.

Stopping the Engine

CAUTION:



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

1. Place the **throttle lever** (Figure 14) in **slow** position, and listen for the engine speed to decrease.
2. Place the **Engine ON/OFF switch** (Figure 12) in the "**OFF**" position.
3. Place the **fuel valve lever** (Figure 11) in the "**OFF**" position.

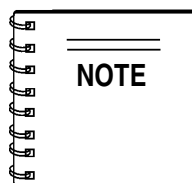
Operation

CAUTION:



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

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



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

3. Firmly gasp 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:
 - 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.
 - 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.

CAUTION:



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

Inspection and Maintenance Service Tables.

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

TABLE 5. MVH-64H MACHINE INSPECTION

ITEM	HOURS OF OPERATION	REMARKS
Damaged Parts	Every 8 hours (every day)	
Loose or Lost Screws	Every 8 hours (every day)	
Function of Controlling System Part	Every 8 hours (every day)	
Vibrator Oil Check	Every 100 hours	See page 16
Vibrator Oil Replacement	Every 300 hours	See page 22
V-belt (clutch) Check	Every 200 hours	See page 17

TABLE 6. ENGINE CHECK

(For details, see separate Engine Manual)	
Item	Hours of Operation
Leakage of oil or fuel	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 max. level)
Engine oil replenishment	At first 20 hours, then every 100 hours
Air cleaner cleaning	Every 50 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.

Daily Service

- Check for leakage of fuel or oil.
- Remove soil and clean the bottom of compaction plate.
- Check engine oil, see page 16.
- 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 (6mm) 300 ~ 350 (8mm) 650 ~ 700 (10mm)							
* (In case counter-part is of aluminum)								
(Threads in use with this machine are all right handed)								
Material and quality of material is marked on each bolt, and screw.								

Engine Oil Replacement:

1. Replace engine oil, in first 20 hours of operation and every 100 hours afterwards.
2. Oil may be drained more easily when it is warm after operation (For more details, see separate HONDA Owner's Manual).
3. When changing the engine oil, the old oil can be drained by removing the oil filler cap, and unscrewing the engine oil drain plug located at the base of the engine (Figure 16).
4. Remember to refill engine crankcase with the recommended type of oil as listed in Table 4.

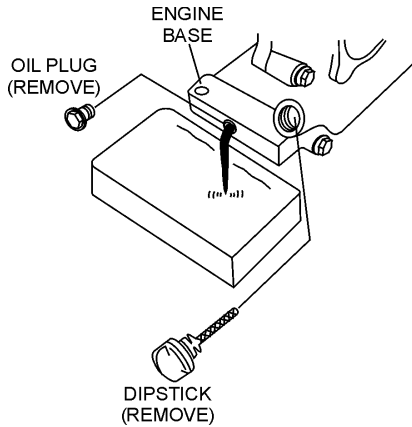


Figure 16. Engine Oil Plug

Spark Plug

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

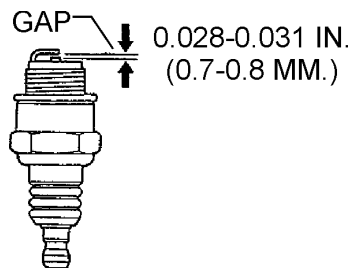


Figure 17. Spark Plug Gap

Air Filter

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.
2. To clean or replace air filter loosen the wing nut on the air filter housing (Figure 18), 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.

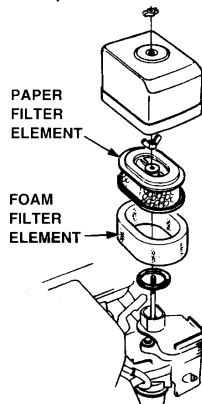


Figure 18. Air Filter

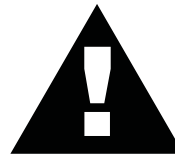
Changing Vibrator Oil

1. When changing the vibrator oil, remove the drain plug (Figure 7), and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot. Remember to use only 10W-30 motor oil when replacing vibrator oil.

Checking and Replacing the V-Belt and Clutch

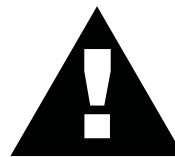
1. After 200 hours of operation, remove the upper belt cover to check the V-belt tension. Tension is proper if the belt bends about 10 mm when depressed strongly with finger between shafts. Loose or worn V-belts reduces power transmission efficiency, causing weak compaction and reduces the life of the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

CAUTION:



NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 8) gets caught between the V-belt and the clutch. Always use safety gloves.

CAUTION:



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

● Replacing the V-belt

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

● Reinstalling the V-belt

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

● Checking Clutch

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

MVC-70H/W — PREPARATION FOR LONG -TERM STORAGE

Compactor Storage

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

- Drain the fuel tank completely.
- Run the engine until the fuel in the injection system is completely consumed.
- Completely drain the oil from the engine crankcase and follow procedures described in the **HONDA** engine Owner's Manual for engine storage.
- Completely drain the compactor's 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.

MVC-70H/W — TROUBLESHOOTING (ENGINE)

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.

MVC-70H/W — TROUBLESHOOTING (ENGINE)

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.

MVC-70H/W — TROUBLESHOOTING (PLATE COMPACTOR)

TABLE 9. PLATE COMPACTOR TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Travel speed too low, and vibration is weak.	Engine speed too low?	Set engine speed to correct RPM.
	Clutch slips?	Check or replace clutch.
	V-belt slips?	Adjust or replace V-belt.
	Excessive oil in vibrator?	Drain excess oil and fill to proper level.
	Malfunction in vibrator housing?	Check eccentric, gears and counter weights.
Does not travel forward.	V-belt slips?	Replace V-belt.
	Clutch slips?	Check clutch springs and shoes.
	Vibrator locked?	Check vibrator housing (eccentric, gears and counterweights)

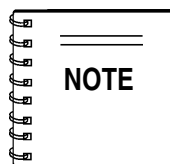
MVC-70H/W — EXPLANATION OF CODE IN REMARKS COLUMN

How to read the marks and remarks used in this parts book.

Items Found In the “Remarks” Column

Serial Numbers-Where indicated, this indicates a serial number range (inclusive) where a particular part is used.

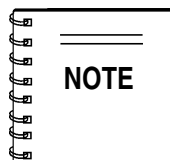
Model Number-Where indicated, this shows that the corresponding part is utilized only with this specific model number or model number variant.



If more than one of the same reference number is listed, the last one listed indicates newest (or latest) part available.

Items Found In the “Items Number” Column

All parts with same symbol in the number column, *, #, +, %, or >, belong to the same assembly or kit.



The contents of this catalog are subject to change without notice.

MVC-70H/W — SUGGESTED SPARE PARTS

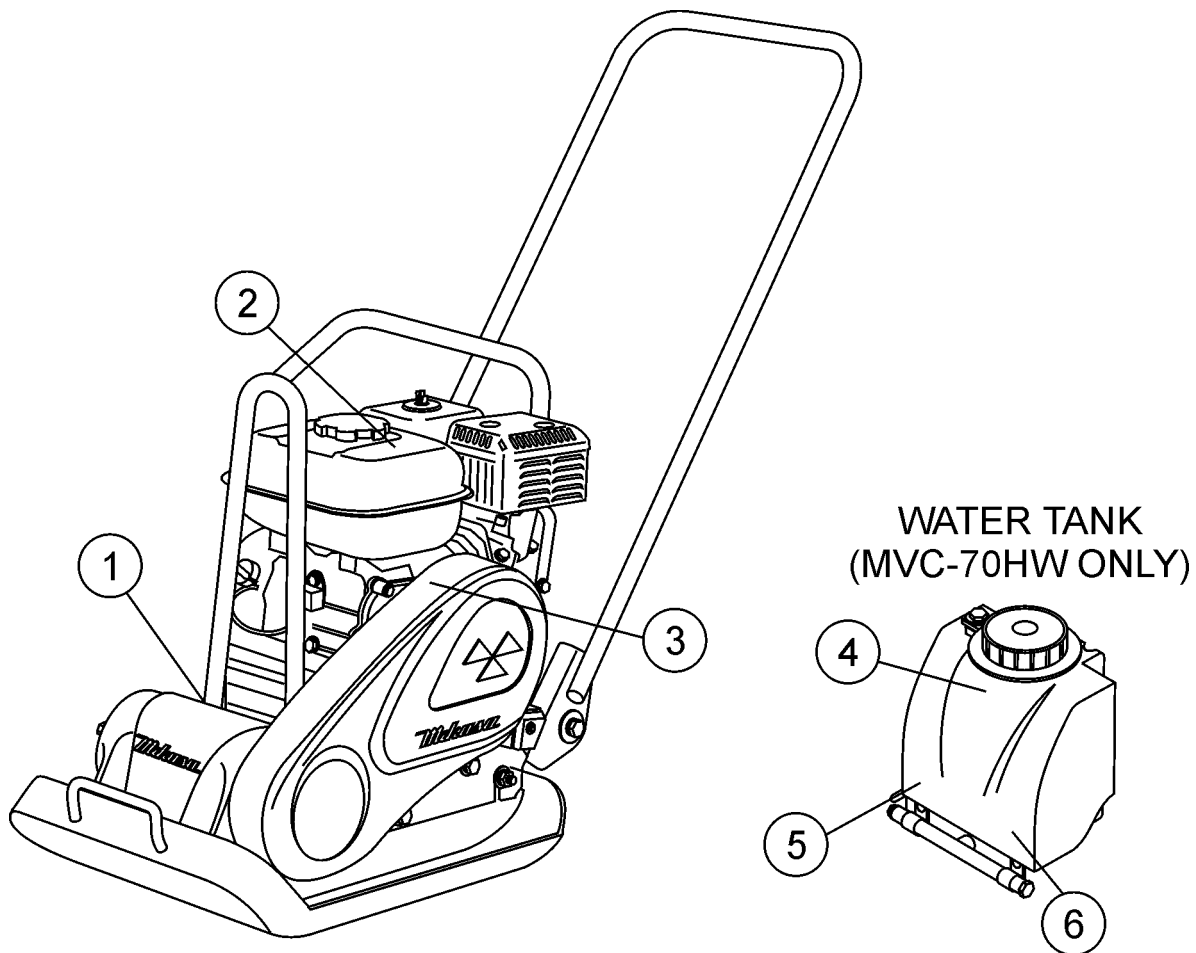
MQ MIKASA MVC-70H/W PLATE COMPACTOR WITH HONDA GX120K1SM12 GASOLINE ENGINE

1 to 3 Units

<u>Qty.</u>	<u>P/N</u>	<u>Description</u>
3	070100312	V-BELT
4	939010250	SHOCK ABSORBER
3	9807956846	SPARK PLUG
1	28462ZH8003	ROPE, RECOIL STARTER
3	17210ZE0822	ELEMENT, AIR CLEANER
1	17620ZH7023	FUEL CAP
1	17672ZE2W01	FUEL FILTER, FUEL TANK

MVC-70H/W — NAME PLATE AND DECALS

NAME PLATE AND DECALS



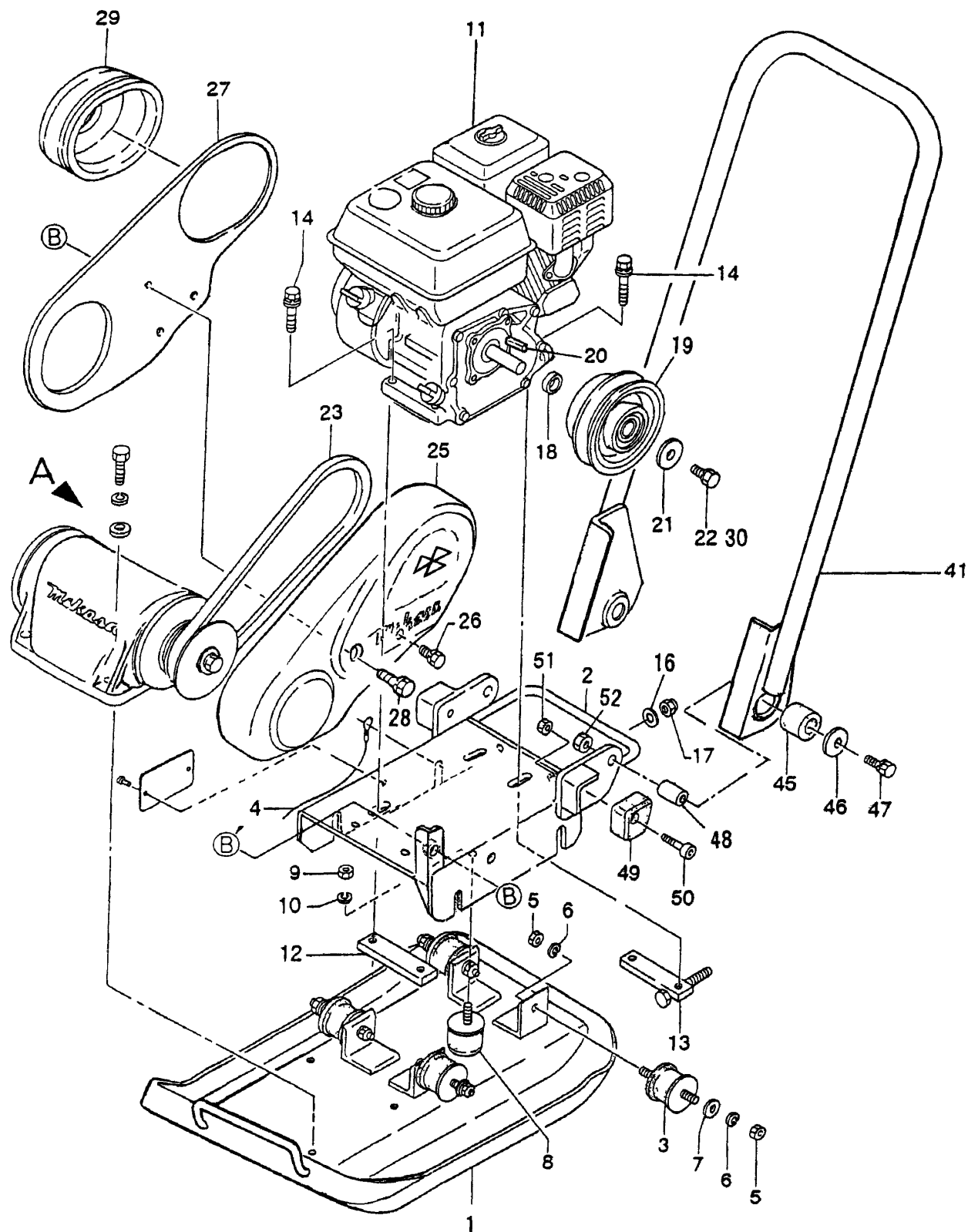
MVC-70H/W — NAME PLATE AND DECALS

NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1		PLATE, MODEL/SERIAL NUMBER	1	CONTACT PARTS DEPT.
2	920203290	DECAL, READ OWNERS MANUAL	1	NPA-329
3	920203989	DECAL, BELT GUARD WARNING	1	NPA-989
4	920101410	DECAL: MIKASA MARK 120X60	1	WATER TANK
5	920201580	DECAL: MQ MARK 71X55	1	MQ/WATER TANK
6	920105070	DECAL: MIKASA MARK 125MM	1	WATER TANK

MVC-70H/W — MAIN BODY ASSY.

MAIN BODY ASSY.



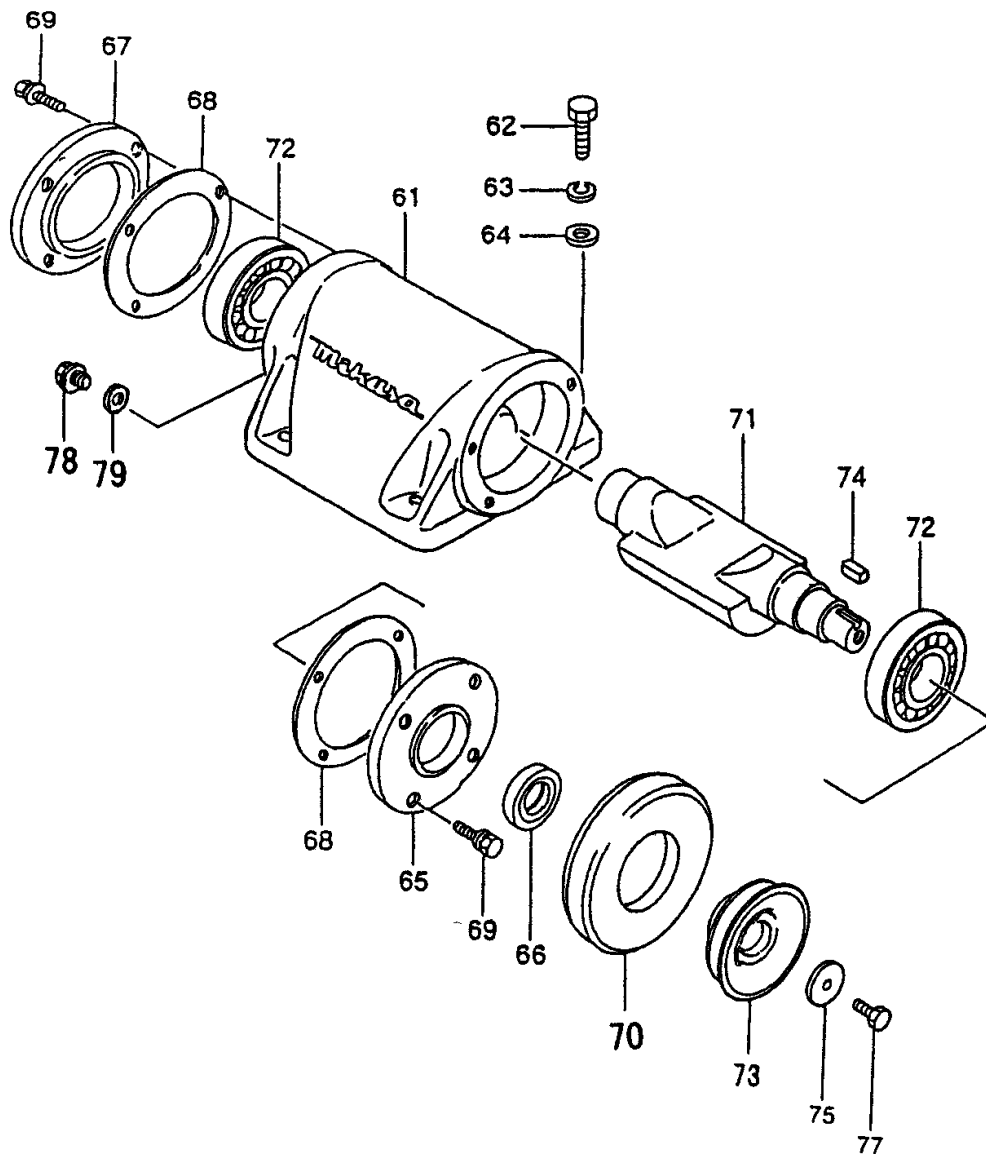
MVC-70H/W — MAIN BODY ASSY.

MAIN BODY ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	418117710	VIBRATORY PLATE	1	
2	418216490	BASE	1	
3	939010250	SHOCK ABSORBER D45-H41	4	
4	959404350	EARTH WIRE	1	
5	020310080	NUT M10	8	
6	030210250	WASHER, LOCK M10	8	
7	031110160	WASHER, FLAT M10	4	
8	939010010	SHOCK ABSORBER, STOPPER 45	1	
9	020310080	NUT M10	1	
10	030210250	WASHER, LOCK M10	1	
11	912212001	ENGINE HONDA GX120K1SM12	1	
12	404412290	ENGINE NUT	1	
13	413436870	ENGINE NUT, REAR	1	
14	002410840	BOLT 8X40 H, SW, PW	4	
16	031108160	WASHER, FLAT M8	1	
17	022710809	NYLON NUT M8	1	
18	404418150	SPACER 18X25X8 CLUTCH	1	
19	460446780	CLUTCH ASSY.	1	
20	951400100	KEY 5X5X35	1	
21	952400130	WASHER 9304	1	
22	002210820	BOLT 8X25 H, SW	1	
23	070100312	V-BELT RPF-3310	1	
25	418216460	BELT COVER	1	
26	002411035	BOLT 10X35 H, SW, PW	1	
27	418216480	BELT COVER, IN.	1	
28	002411053	BOLT 10X65 SW, PW	1	
29	418343420	COVER SEAL, E/G	1	
41	413216250	HANDLE LONG	1	
45	404433430	RUBBER 20X32X28.5/52H	2	
46	952403450	WASHER 11X35X4.5	2	
47	002211051	BOLT 10X55 H, SW	2	
48	413456490	COLLAR 10.5-20-31.5	2	
49	413436720	RUBBER, HANDLE	2	
50	001520845	SOCKET HEAD BOLT 8X45 T	2	
51	020308060	NUT M8	2	
52	020310080	NUT M10	2	

MVC-70H/W — VIBRATOR ASSY.

VIBRATOR ASSY.



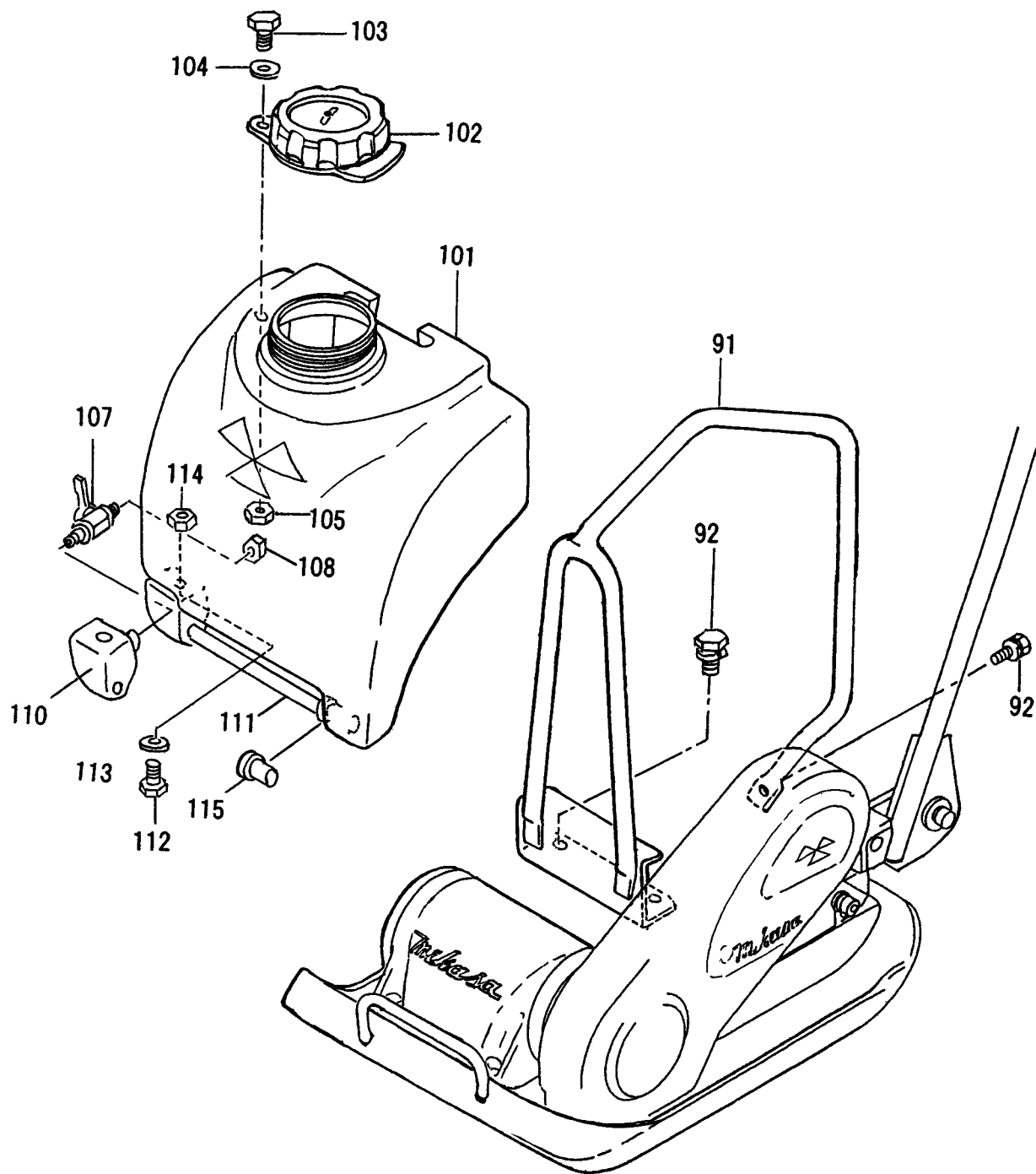
MVC-70H/W — VIBRATOR ASSY.

VIBRATOR ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
61	418117730	VIBRATING CASE	1	
62	001221445	BOLT 14X45 T	4	
63	030214350	WASHER, LOCK M14	4	
64	031114260	WASHER, FLAT M14	4	
65	418456950	CASE COVER/PULLEY	1	
66	060403020	OIL SEAL TC-30458	1	
67	418456960	CASE COVER/SHUT-OFF	1	
68	418456970	PACKING	2	
69	002400820	BOLT 8X20 SW, PW	8	
70	418456990	COVER SEAL, VIB.	1	
71	418343400	ECC. ROTOR SHAFT	1	
72	040306307	BEARING 6307C3	2	
72	040406307	BEARING 6307C4	2	
73	418456980	PULLEY, VIB.	1	
74	951401920	KEY 7X7X30	1	
75	952403450	WASHER 11X35X4.5	1	
77	002211030	BOLT 10X30 H, SW	1	
78	953400270	PLUG 1/4X14 10L	1	
79	953405260	PACKING	1	

MVC-70H/W — WATERTANK ASSY.

WATER TANK ASSY.



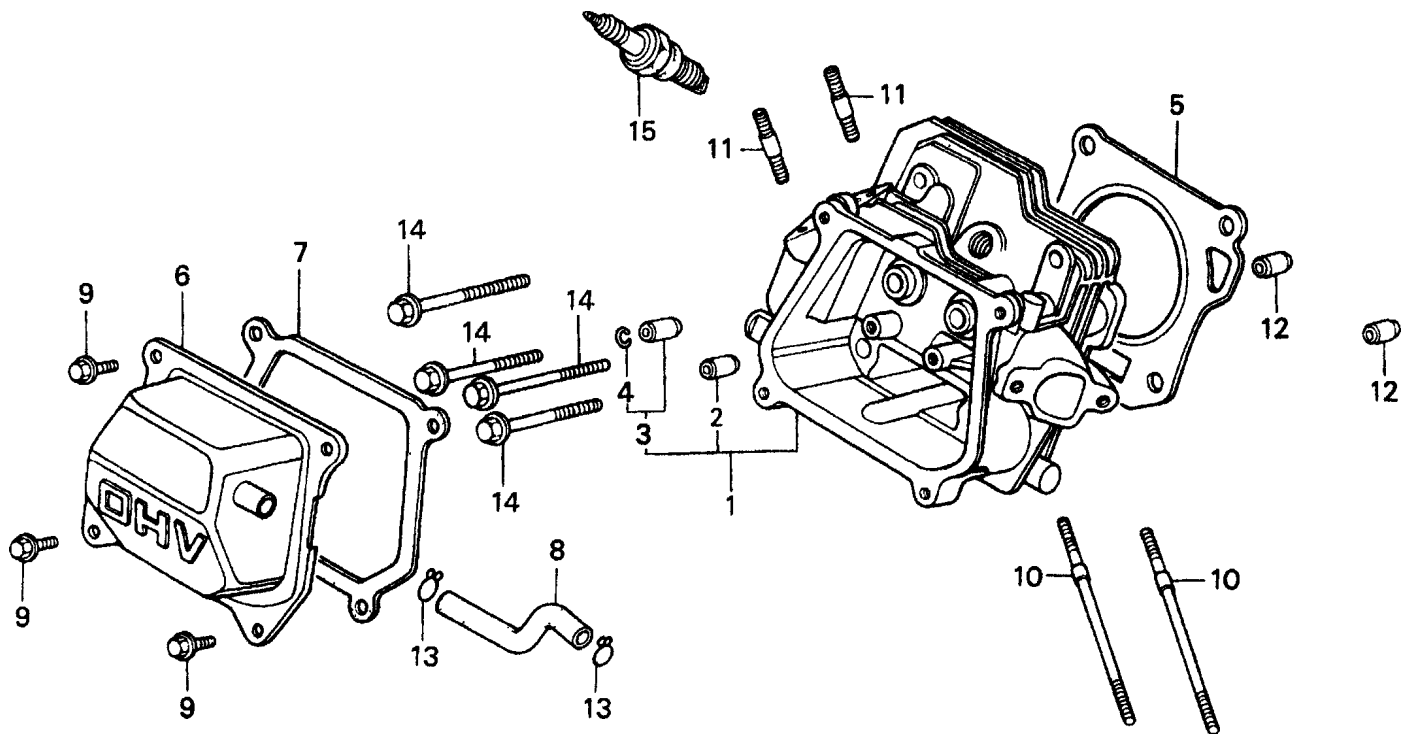
MVC-70H/W — WATER TANK ASSY.

WATER TANK ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
91	418216510	HOOK	1	
92	002211025	BOLT 10X25 H, SW	3	
101	418910020	WATER TANK, ORANGE	1	INCLUDES ITEM W/*
101	418910030	WATER TANK, WHITE	1	INCLUDES ITEM W/*
102*	954300342	CAP, WATER TANK	1	
103*	001241030	BOLT 10X30 U	1	
104*	033910010	WASHER 10.5X21X2 SUS.	2	
105*	022910180	NYLON NUT M10 SUS.	1	
107	954403241	COCK PT1/4, BH-1211 AL.	1	
108	959403790	NUT PS-1/4	1	
110	416338940	PIPE HOLDER, L	1	
111	418343430	SPRINKLING PIPE	1	
112	001220825	BOLT 8X25 T	1	
113	031108160	WASHER, FLAT M8	2	
114	020308060	NUT M8	1	
115	418457010	RUBBER CAP	1	

HONDA GX120K1SM12 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.



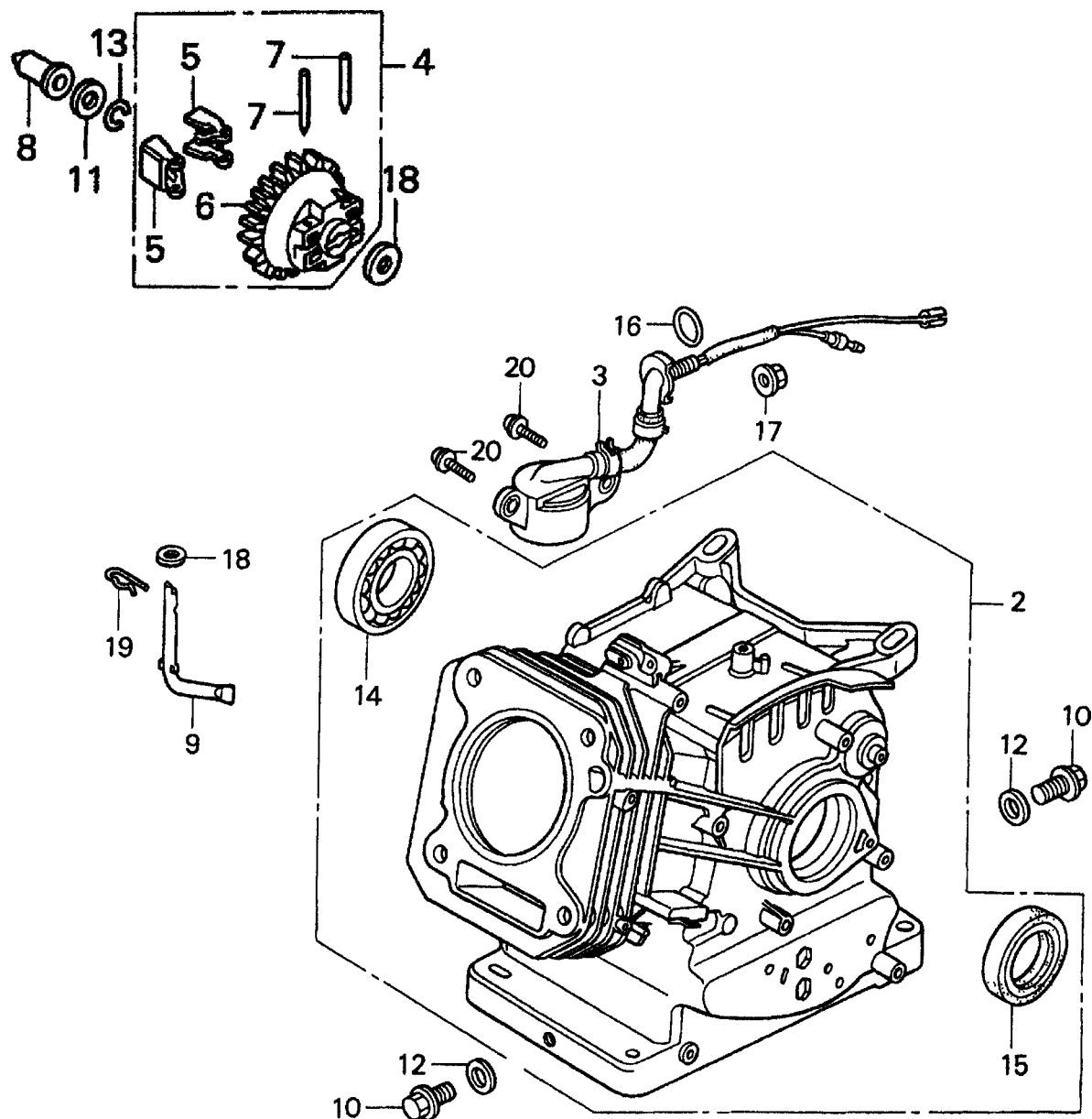
HONDA GX120K1SM12 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	12210ZH7000	CYLINDER HEAD	1	INCLUDES ITEMS W/*
2*	12204ZE1306	GUIDE, VALVE (OS) OPTIONAL	1	
3*	12205ZE1315	GUIDE, EX. VALVE (OS) OPTIONAL	1	INCLUDES ITEMS W/+
4*+	12216ZE5300	CLIP, VALVE GUIDE	1	
5	12251ZH7800	GASKET, CYLINDER HEAD	1	
6	12310ZE1020	COVER, HEAD	1	
7	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
8	15721ZH8000	TUBE, BREATHER	1	
9	90013883000	BOLT, FLANGE 6X12 (CT200)	4	
10	90043ZE1020	BOLT, STUD 6X109	2	
11	90047ZE1000	BOLT, STUD 8X32	2	
12	9430110160	PIN, A, DOWEL 10X16	2	
14	957230805500	BOLT, FLANGE 8X55	4	
15	9807956846	SPARK PLUG BPR6ES (NGK)	1	

HONDA GX120K1SM12 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.



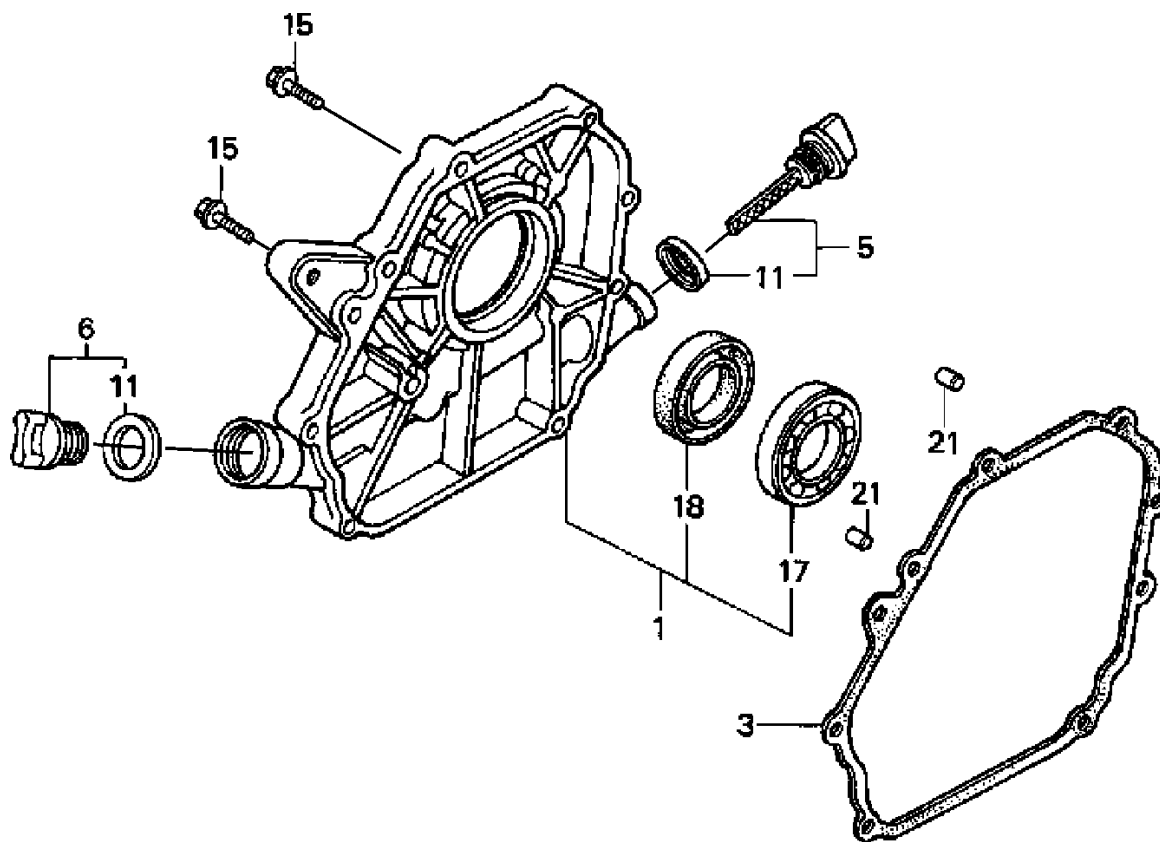
HONDA GX120K1SM12 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	120A0ZH7810	BARREL ASSY., CYLINDER	1	INCLUDES ITEMS W/*
3	15510ZE1033	SWITCH ASSY., OIL LEVEL	1	
4	16510ZE1000	GOVERNOR ASSY.	1	INCLUDES ITEMS W/#
5#	16511ZE1000	WEIGHT, GOVERNOR	2	
6#	16512ZE1000	HOLDER, GOVERNOR WEIGHT	1	
7#	16513ZE1000	PIN, GOVERNOR WEIGHT	2	
8	16531ZE1000	SLIDER, GOVERNOR	1	
9	16541ZE1000	SHAFT, GOVERNOR ARM	1	
10	90131ZE1000	BOLT, DRAIN PLUG	2	
11	90451ZE1000	WASHER, THRUST 6mm	1	
12	90601ZE1000	WASHER, DRAIN PLUG 10.2mm	2	
13	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
14*	91001878003	BEARING, RADIAL BALL 62/22	1	
15*	91202ZE6003	OIL SEAL 22X35X6	1	
16	91353671004	O- RING 14mm	1	
17	9405010000	NUT, FLANGE 10mm	1	
18	9410106800	WASHER, PLAIN 6mm	2	
19	9425108000	PIN, LOCK 8mm	1	
20	957010601200	BOLT, FLANGE 6X12	2	

HONDA GX120K1SM12 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



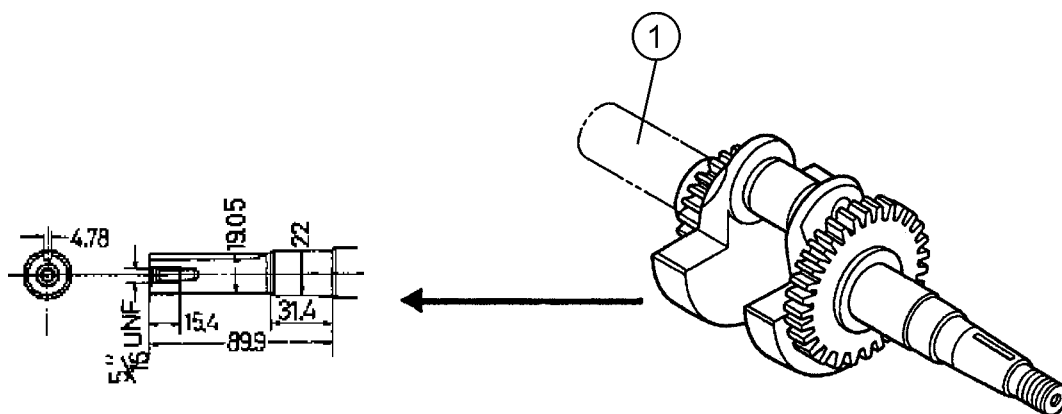
HONDA GX120K1SM12 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11300ZE0640	COVER ASSY., CRANKCASE	1	INCLUDES ITEMS W/*
3	11381ZH7800	GASKET, CRANKCASE	1	
5	15600ZE1003	CAP ASSY., OIL FILLER	1	INCLUDES ITEMS W/#
6	15600ZG4003	CAP ASSY., OIL FILLER	1	INCLUDES ITEMS W/+
11#+	15625ZE1003	PACKING, OIL FILLER CAP	2	
15	90015883000	BOLT, FLANGE 6X28	7	
17*	91001878003	BEARING, RADIAL 62/22	1	
18*	91203ZE0003	OIL SEAL 22X41X6	1	
21	9430108140	DOWEL PIN 8X14	2	

HONDA GX120K1SM12 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.



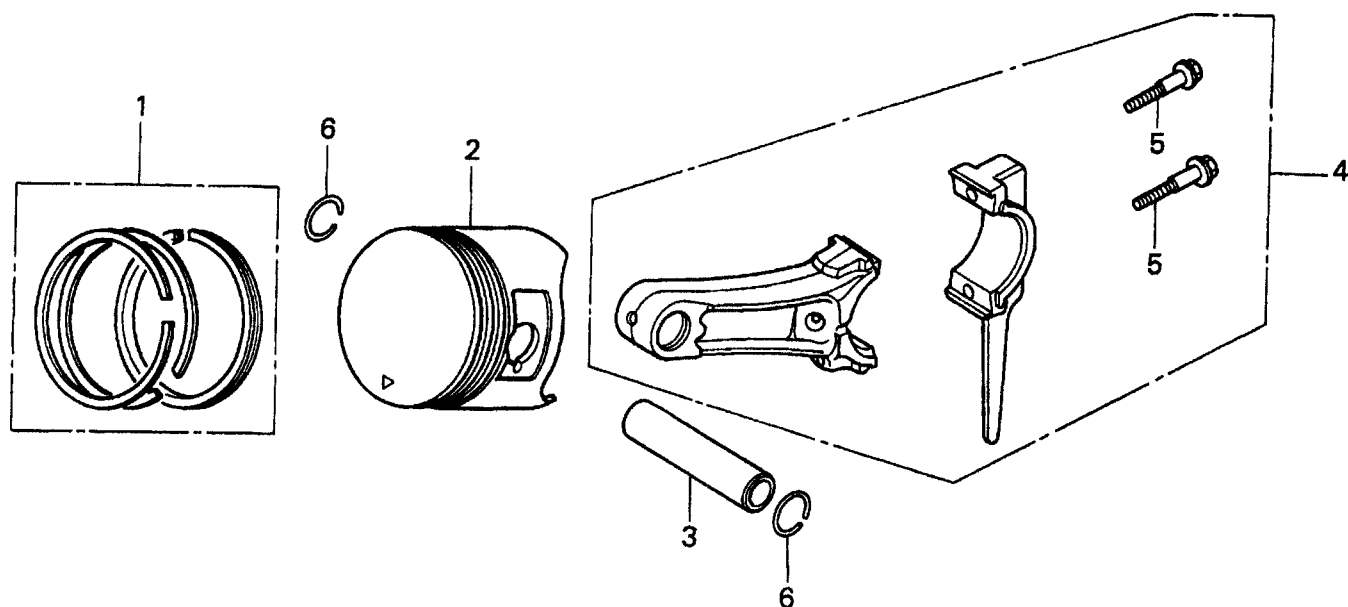
HONDA GX120K1SM12 ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13310ZE0601	CRANKSHAFT	1	

HONDA GX120K1SM12 ENGINE — PISTON/CONNECTING ROD ASSY.

PISTON/CONNECTING ROD ASSY.



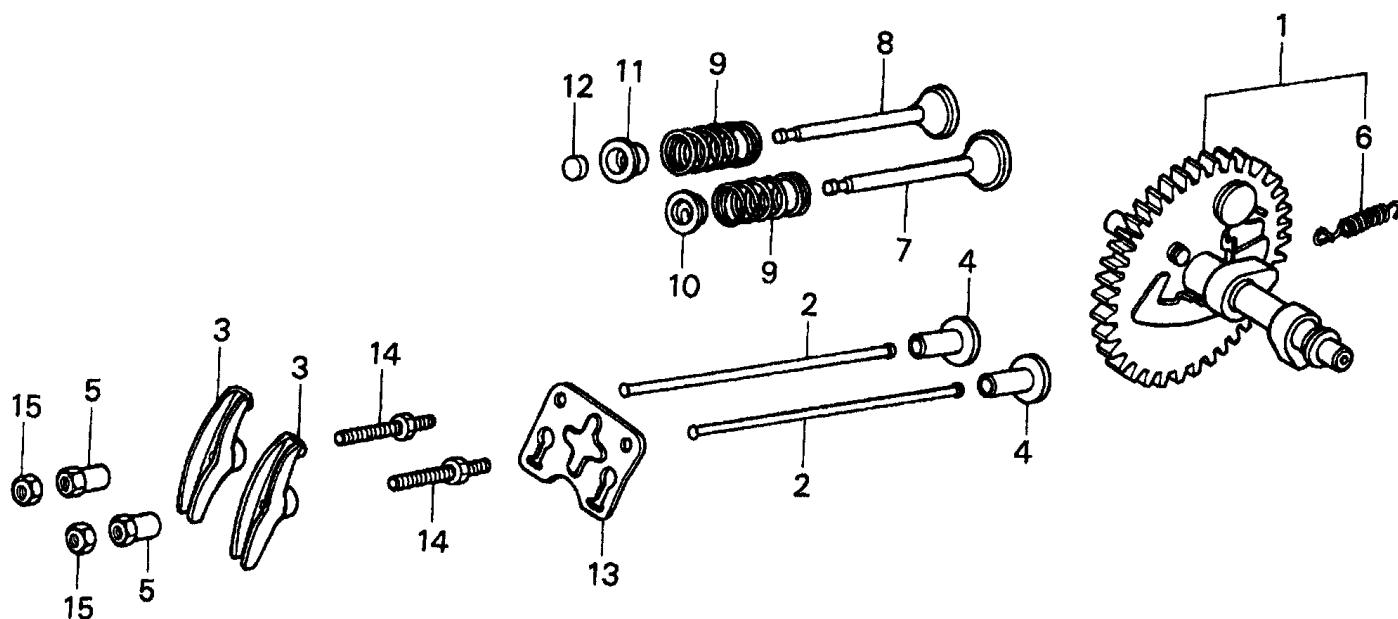
HONDA GX120K1SM12 ENGINE — PISTON/CONNECTING ROD ASSY.

PISTON/CONNECTING ROD ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13010ZK7V01	RING SET, PISTON (STANDARD)	1	
1	13011ZK7V01	RING SET, PISTON (OS 0.25), OPTIONAL	1	
1	13012ZK7V01	RING SET, PISTON (OS 0.50) , OPTIONAL	1	
1	13013ZK7V01	RING SET, PISTON (OS 0.75), OPTIONAL	1	
2	13101ZH7000	PISTON, STANDARD	1	
2	13102ZH7000	PISTON, OS 0.25	1	
2	13103ZH7000	PISTON, OS 0.50	1	
2	13104ZH7000	PISTON, 0.75	1	
3	13111ZE0000	PIN, PISTON	1	
4	132A0ZE0000	ROD ASSY, CONNECTING (UNDER SIZE)	1	INCLUDES ITEMS W/*
4	13200ZE0000	ROD ASSY., CONNECTING	1	INCLUDES ITEMS W/*
5*	90001ZE1000	BOLT, CONNECTING ROD	2	
6	90551ZE0000	CLIP, PISTON PIN 13MM	2	

HONDA GX120K1SM12 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



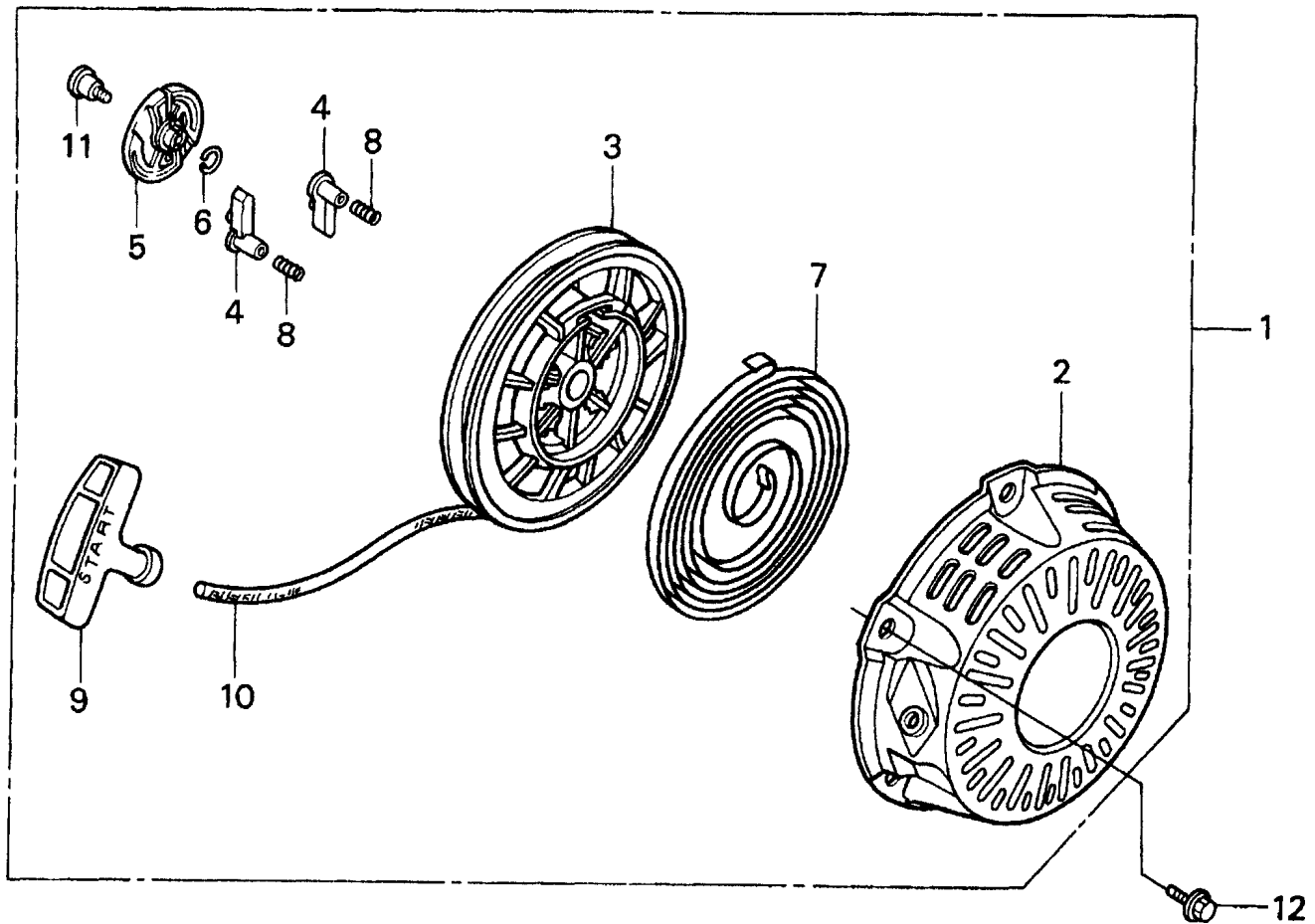
HONDA GX120K1SM12 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	14100ZE0812	CAMSHAFT ASSY.	1	INCLUDES ITEMS W/*
2	14410ZE0010	ROD, PUSH	2	
3	14431ZE1000	ARM, VALVE ROCKER	2	
4	14441ZE1010	LIFTER, VALVE	2	
5	14451ZE1013	PIVOT, ROCKER ARM	2	
6*	14568ZE1000	SPRING, WEIGHT RETURN	1	
7	14711ZF0000	VALVE, IN.	1	
8	14721ZF0000	VALVE, EX.	1	
9	14751ZF1000	SPRING, VALVE	2	
10	14771ZE1000	RETAINER, IN. VALVE SPRING	1	
11	14773ZE1000	RETAINER, EX. VALVE SPRING	1	
12	14781ZE1000	ROTATOR, VALVE	1	
13	14791ZE0010	PLATE, PUSH ROD GUIDE	1	
14	90012ZE0010	BOLT, PIVOT 8MM	2	
15	90206ZE1000	NUT, PIVOT ADJ.	2	

HONDA GX120K1SM12 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



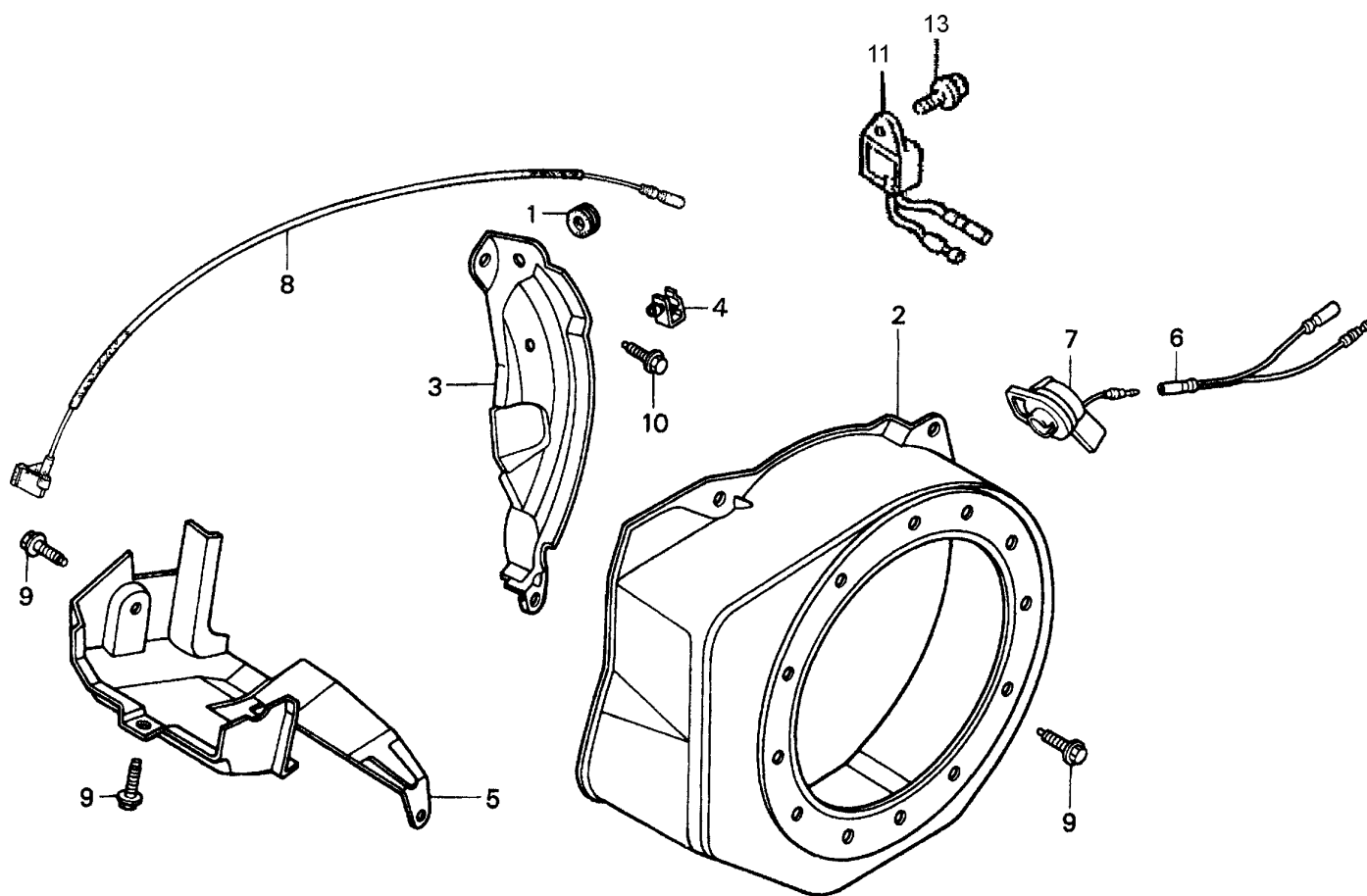
HONDA GX120K1SM12 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	28400ZH8013ZA	STARTER ASSY., RECOIL *NH1* (BLACK)	1	INCLUDES ITEMS W/*
2*	28410ZH8003ZA	CASE, RECOIL STARTER *NH1* (BLACK)	1	
3*	28420ZH8013	REEL, RECOIL STARTER	1	
4*	28422ZH8013	RATCHET, STARTER	2	
5*	28433ZH8003	GUIDE, RATCHET	1	
6*	28441ZH8003	SPRING, FRICTION	1	
7*	28442ZH8003	SPRING, RECOIL STARTER	1	
8*	28443ZH8003	SPRING, RETURN	2	
9*	28461ZH8003	KNOB, RECOIL STARTER	1	
10*	28462ZH8003	ROPE, RECOIL STARTER	1	
11*	90003ZH8003	SCREW, SETTING	1	
12	9008ZE2003	BOLT, FLANGE 6X10	3	

HONDA GX120K1SM12 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.



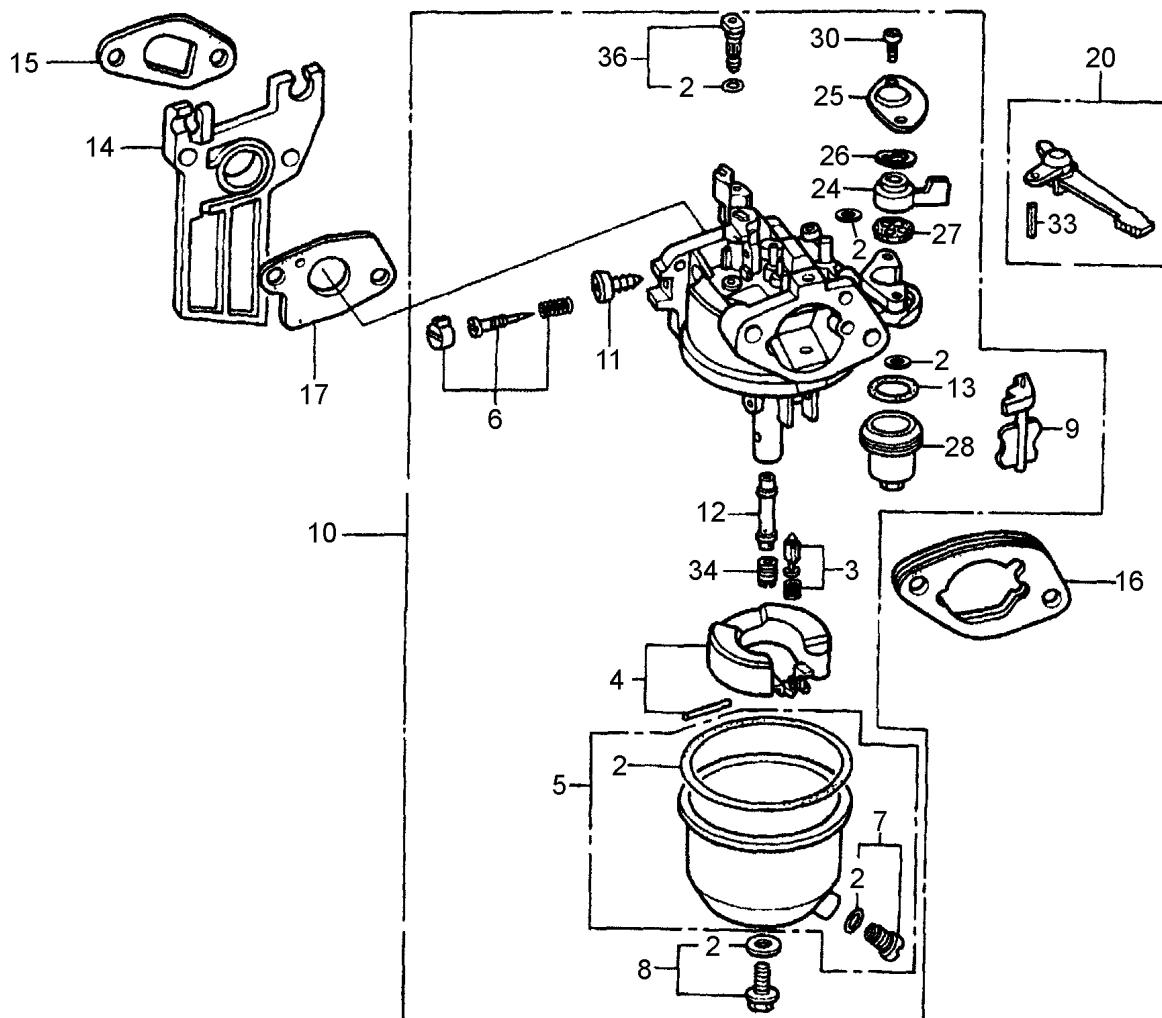
HONDA GX120K1SM12 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	11347371300	GROMMET, ADJUSTING COVER	1	
2	19610ZE0000ZA	COVER, FAN RED	1	
3	19611ZH7810	PLATE, SIDE (OIL ALERT)	1	
4	90601ZH7013	CLIP, HARNESS	1	
5	19630ZH7000	SHROUD	1	
6	32197ZH8003	SUB- HARNESS	1	
7	36100ZH7003	SWITCH ASSEMBLY, ENGINE STOP	1	
8	36101ZE1010	WIRE, STOP SWITCH 370MM	1	
9	90013883000	BOLT, FLANGE 6X12 (CT200)	6	
10	90022888010	BOLT, FLANGE 6X12 (CT200)	1	
11	34150ZH7003	ALERT UNIT, OIL	1	
13	95 7010600800	BOLT, FLANGE 6X8	1	

HONDA GX120K1SM12 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.



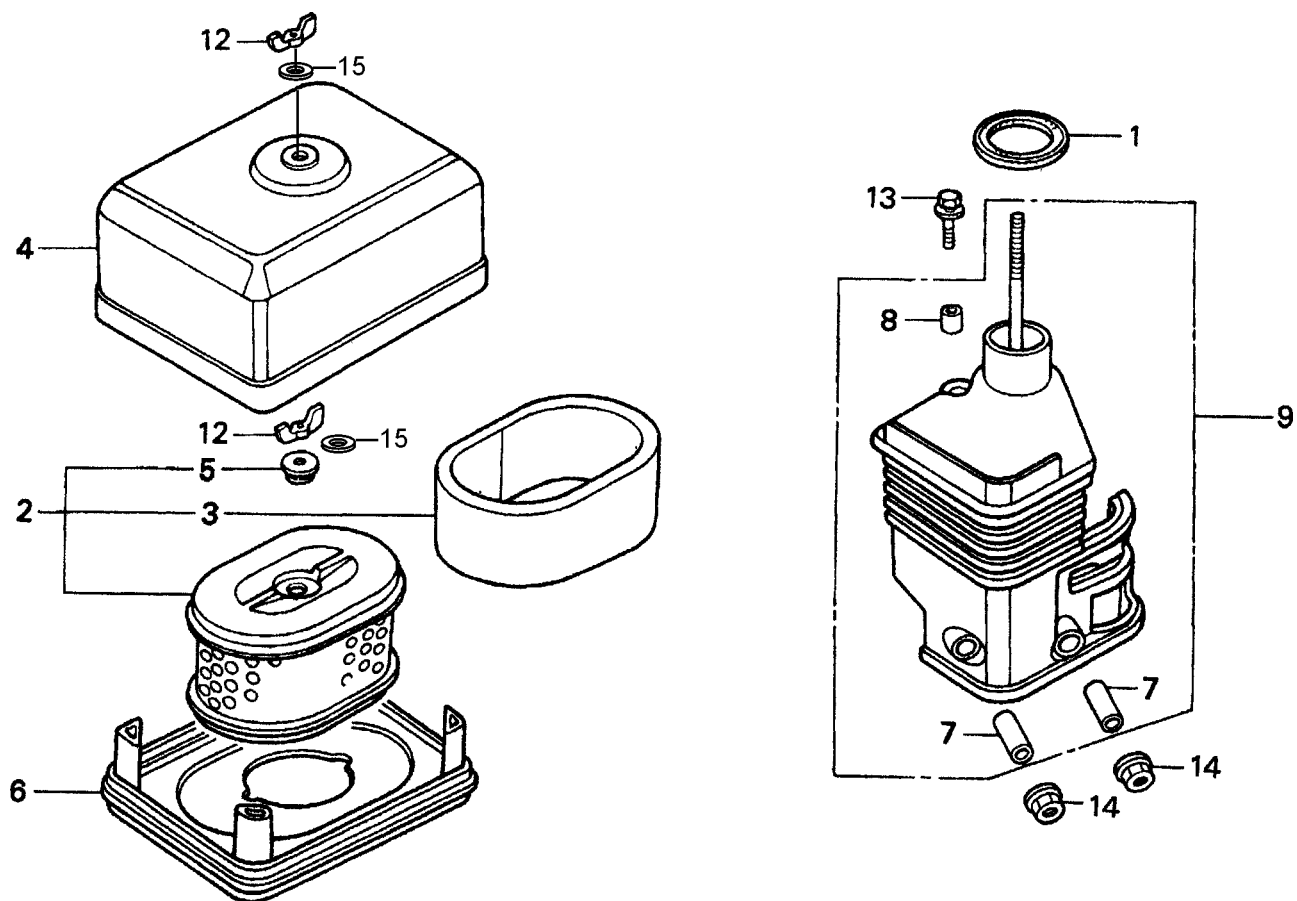
HONDA GX120K1SM12 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2*#	16010ZE1812	GASKET SET	1	
3*	16011ZE0005	VALVE SET, FLOAT	1	
4*	16013ZE0005	FLOAT SET	1	
5*	16015ZE0831	FLOAT CHAMBER SET	1	INCLUDES ITEMS W/#
7*#	16024ZE1811	DRAIN SCREW SET	1	
8*	16028ZE0005	SCREW SET B	1	
9*	16044ZE0005	CHOKE SET	1	
10	16100ZH7W51	CARBURETOR ASSY., BE60B B	1	INCLUDES ITEMS W/*
11*	16124ZE0005	SCREW, THROTTLE STOP	1	
12*	16166ZH7W50	NOZZLE, MAIN	1	
13*	16173001004	PACKING, CUP	1	
14	16211ZE0000	INSULATOR, CARBURETOR	1	
15	16212ZH7800	PACKING, INSULATOR	1	
16	16220ZE1020	SPACER, CARBURETOR	1	
17	16221ZH8801	GASKET, CARBURETOR	1	
20	16610ZE1000	LEVER, CHOKE (STANDARD)	1	INCLUDES ITEMS W/+
24*	16953ZE1812	LEVER, VALVE	1	
25*	16954ZE1812	PLATE, LEVER SETTING	1	
26*	16956ZE1811	SPRING, VALVE LEVER	1	
27*	16957ZE1812	GASKET, VALVE	1	
28*	16967ZE0811	CUP, FUEL STRAINER	1	
30*	93500030061H	SCREW, PAN (3 X 6)	2	
33+	9430520122	PIN, SPRING (2 X 12)	1	
34*	99101ZH80600	JET, MAIN (#60)	1	
35*	99204ZE00350	JET, SET, PILOT (#35)	1	
36	16016ZH7W01	SCREW SET	1	

HONDA GX120K1SM12 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.



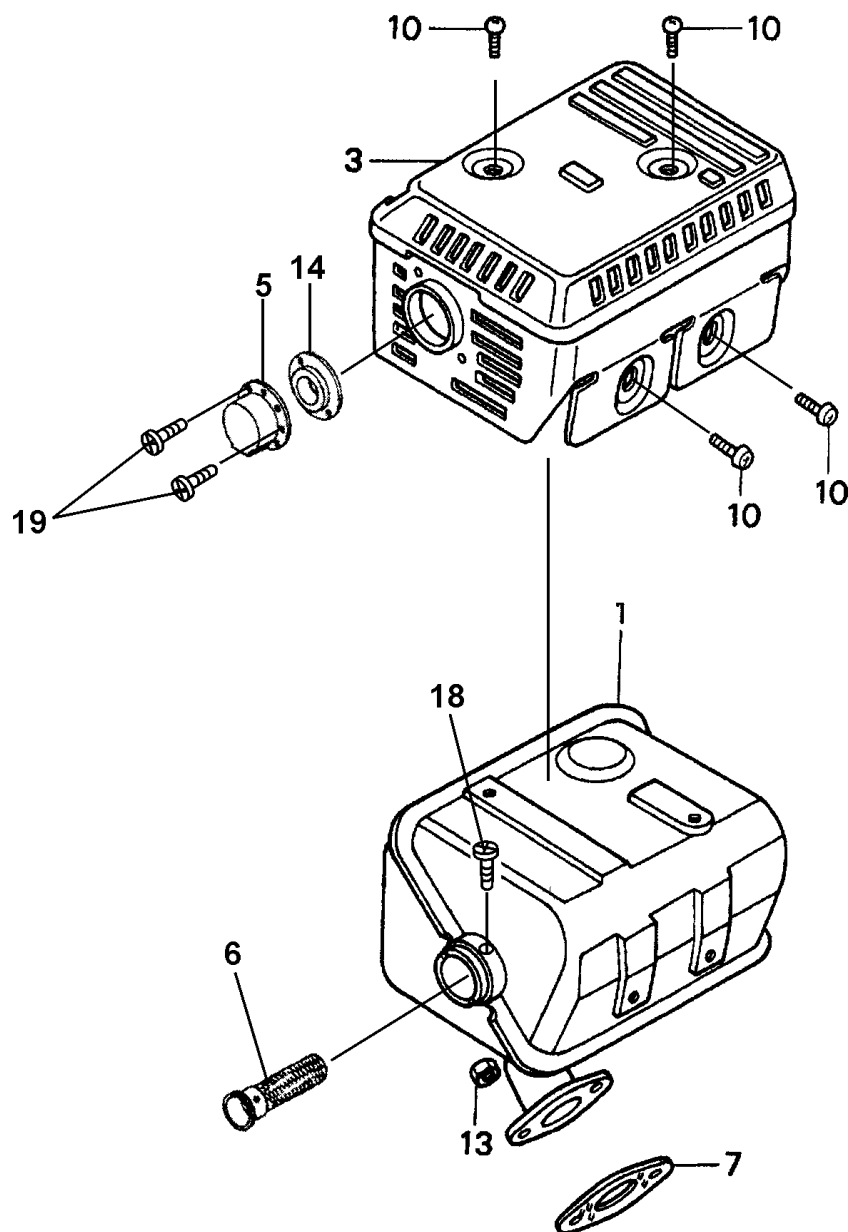
HONDA GX120K1SM12 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16271ZE1000	GASKET, ELBOW	1	
2	17210ZE0822	CLEANER ELEMENT	1	
3	17218ZE0821	ELEMENT OUTER	1	
4	17230ZE0820	COVER, AIR CLEANER	1	
5	17232891000	GROMMET, AIR CLEANER	1	
6	17235ZE1831	NOSE, SILENCER	1	
7*	17238ZE0010	COLLAR, AIR CLEANER	2	
8*	17239ZE1000	COLLAR B, AIR CLEANER	1	
9	17410ZE0030	ELBOW, AIR CLEANER	1	INCLUDES ITEMS W/*
12	90325044000	WINGNUT, TOOL BOX SETTING	2	
13	957010602000	BOLT, FLANGE 6X20	1	
14	9405006000	NUT, FLANGE 6MM	2	
15	9410106800	PLAIN WASHER 6MM	2	

HONDA GX120K1SM12 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.



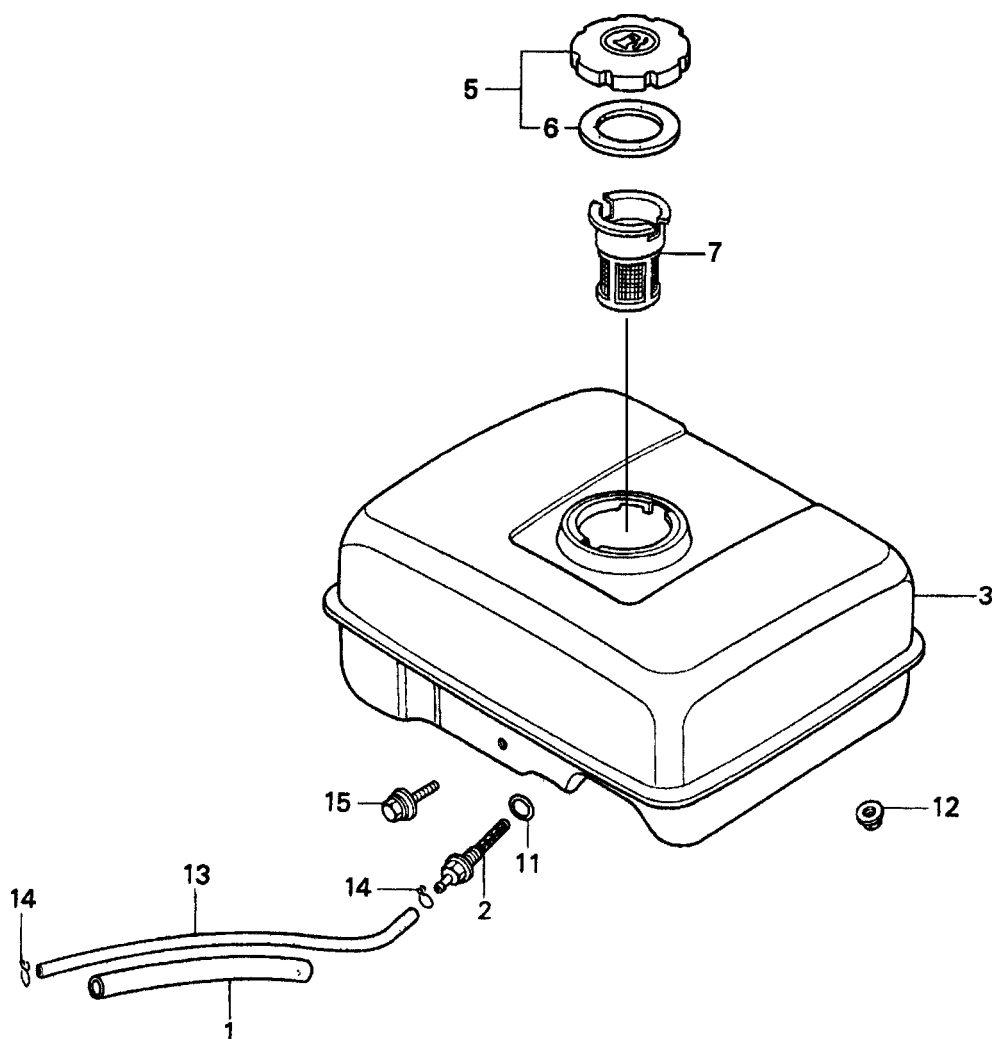
HONDA GX120K1SM12 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18310ZH8810	MUFFLER, ARRESTER	1	
3	18320ZF1H01	PROTECTOR, MUFFLER	1	
5	18340ZE1010	DEFLECTOR	1	
6	18355ZE1000	ARRESTER, SPARK		
7	18381ZH8800	GASKET, MUFFLER	1	
10	90050ZE1000	SCREW, TAPPING 5X8	4	
13	94001080000S	NUT, HEX. 8MM	2	
14	18522ZE1000	GUIDE, MUFFLER	1	
18	90055ZE1000	SCREW, TAPPING 4X6	1	
19	90002ZG0003	SCREW, TAPPING 4X8	2	

HONDA GX120K1SM12 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.



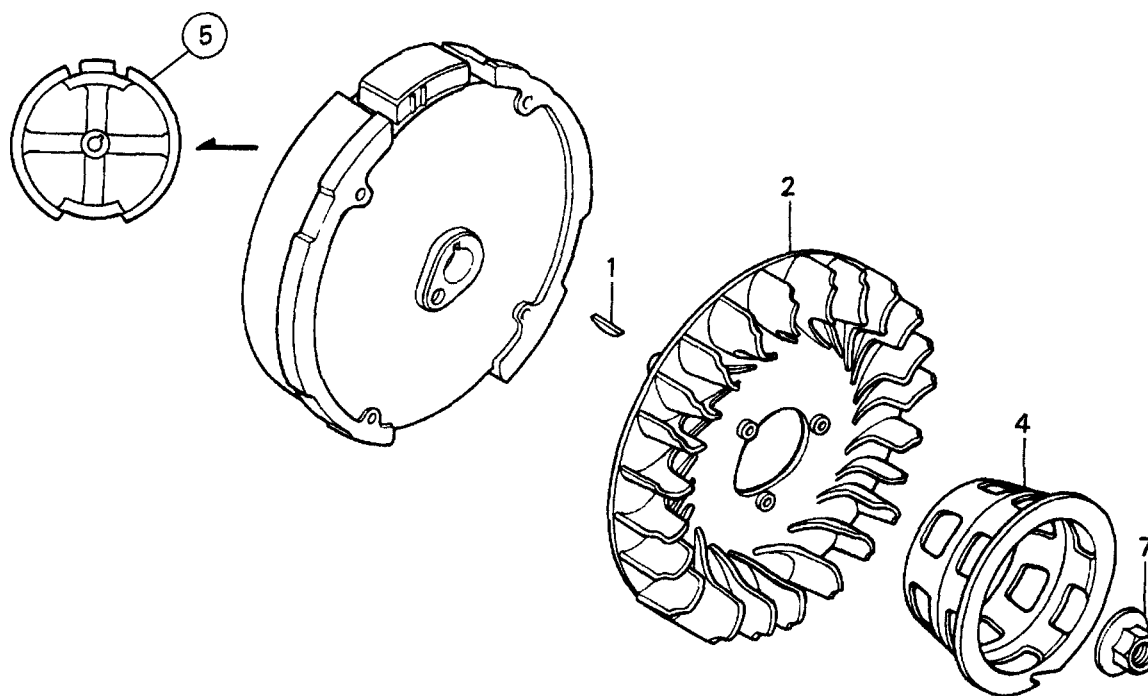
HONDA GX120K1SM12 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	16854ZH8000	RUBBER, SUPPORTER 107MM	1	
2	16955ZE1000	JOINT, FUEL TANK	1	
3	17510ZE0020ZD	TANK, FUEL *NH1* (BLACK)	1	
5	17620ZH7023	CAP, FUEL FILLER	1	INCLUDES ITEMS W/*
6*	17631ZH7003	GASKET, FUEL FILLER CAP	1	
7	17672ZE2W01	FUEL FILTER	1	
11	91353671004	O- RING 14MM	1	
12	9405006000	NUT, FLANGE 6MM	2	
13	950014514040	BULK HOSE, FUEL 4.5X140	1	
14	9500202080	CLIP, TUBE (B8)	2	
15	957010602500	BOLT, FLANGE 6X25	1	

HONDA GX120K1SM12 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.



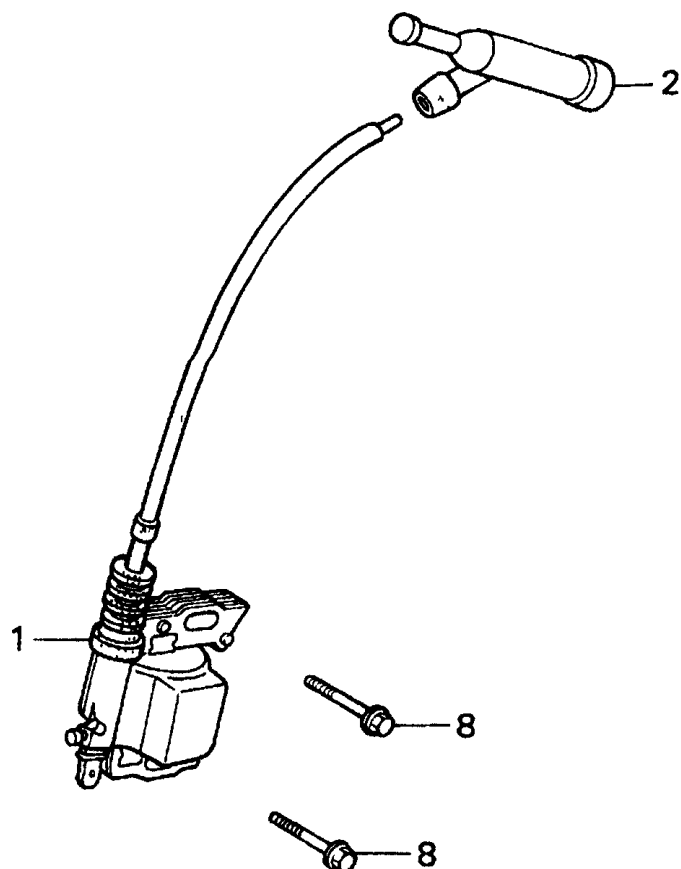
HONDA GX120K1SM12 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	13331357000	KEY, SPECIAL WOODRUFF 25X18	1	
2	19511ZE0000	FAN, COOLING	1	
4	28451ZH8003	PULLEY, STARTER	1	
5	31100ZE0010	FLYWHEEL	1	
7	90201878003	NUT, SPECIAL 14MM	1	

HONDA GX120K1SM12 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.



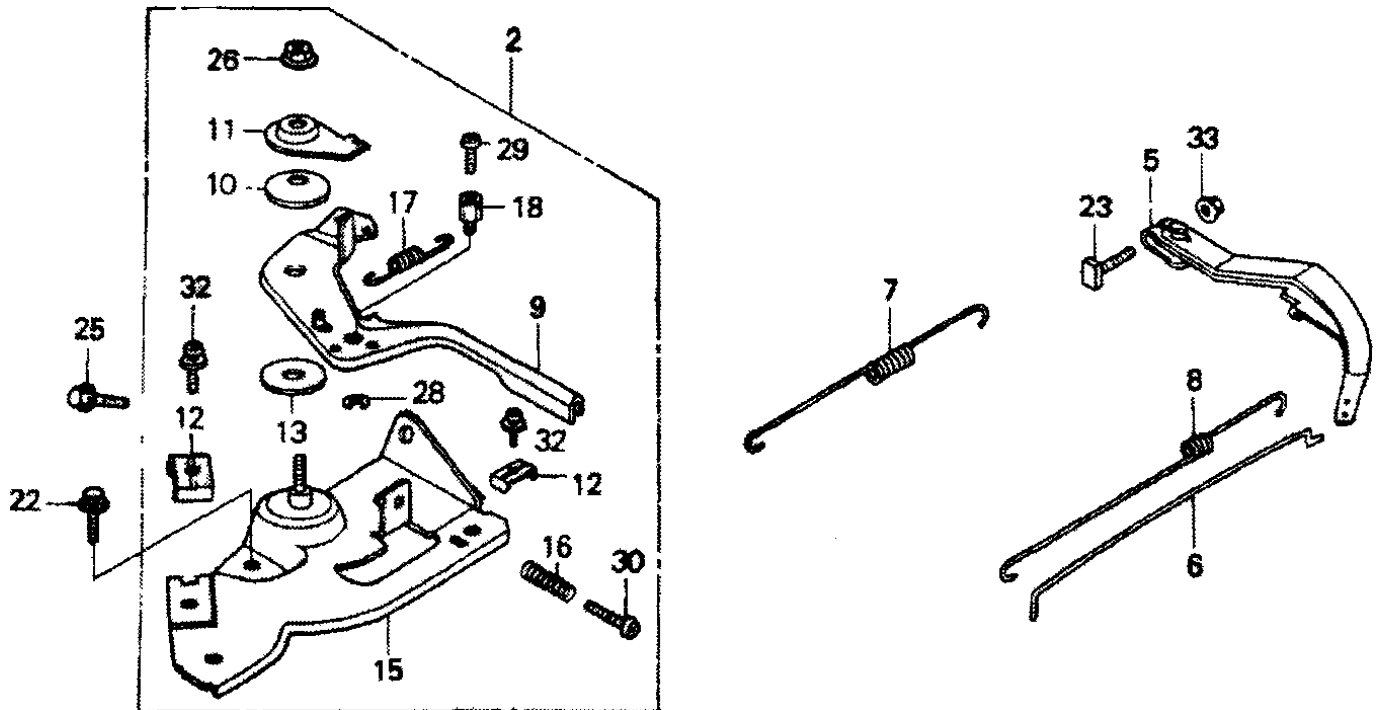
HONDA GX120K1SM12 ENGINE — IGNITION COIL ASSY.

IGNITION COIL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	30500ZE1033	COIL ASSY., IGNITION	1	
2	30700ZE1013	CAP ASSY., NOISE SUPPRESSOR	1	
8	90121952000	BOLT, FLANGE 6X25	2	

HONDA GX120K1SM12 ENGINE — CONTROL ASSY.

CONTROL ASSY.



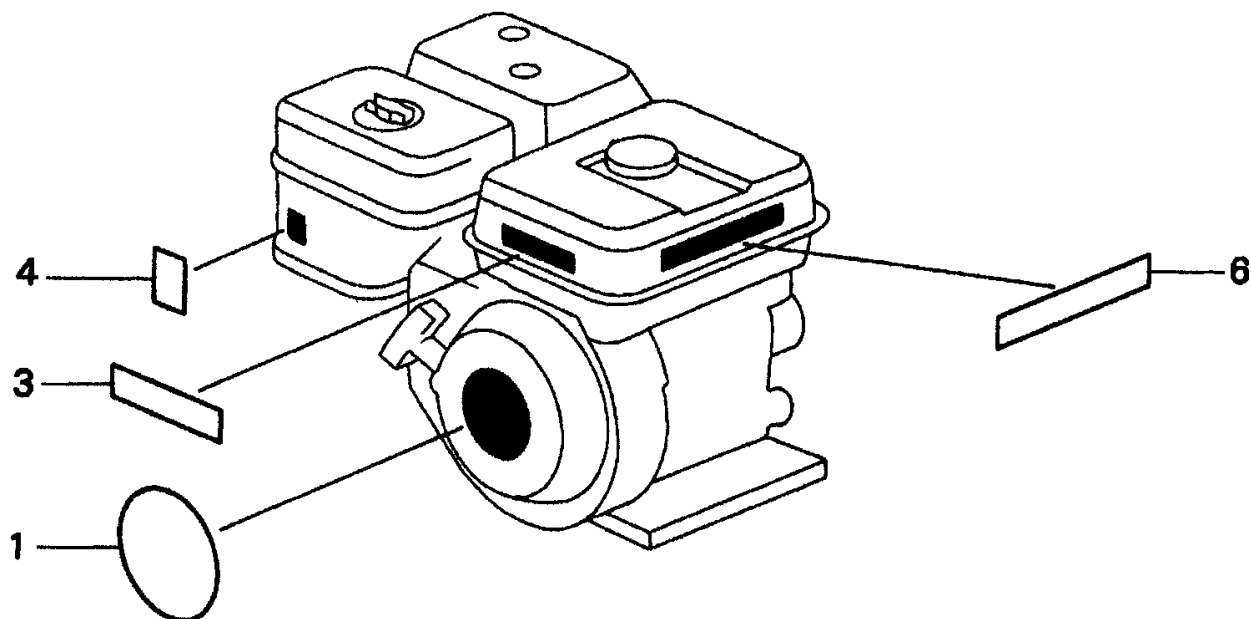
HONDA GX120K1SM12 ENGINE — CONTROL ASSY.

CONTROL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	16500ZH7810	CONTROL ASSY.	1	INCLUDES ITEMS W/#
5	16551ZE0010	ARM, GOVERNOR	1	
6	16555ZE0000	ROD, GOVERNOR	1	
7	16561ZE0020	SPRING, GOVERNOR	1	
8	16562ZE0020	SPRING, THROTTLE RETURN	1	
9#	16571ZH7000	LEVER, CONTROL	1	
10#	16574ZE1000	SPRING, LEVER	1	
11#	16575ZH8000	WASHER, CONTROL LEVER	1	
12#	16576891000	HOLDER, CABLE		
13#	16578ZE1000	SPACER, CONTROL LEVER	1	
15#	16580ZH7810	BASE CONTROL	1	
16#	16584883300	SPRING, CONTROL ADJUSTING	1	
17#	16592ZE1810	SPRING, CABLE RETURN	1	
18#	16594883010	HOLDER, WIRE	1	
22	90013883000	BOLT, FLANGE 6X12 (CT200)	1	
23	90015ZE5010	BOLT, GOVERNOR ARM	1	
25	90022888010	BOLT, FLANGE 6X20 (CT200)	1	
26#	90114SA0000	NUT, SELF- LOCK 6MM	1	
28#	93500040060H	SCREW 4X6	1	
30#	93500050250H	SCREW, PAN 5X25	1	
32#	93500050160A	SCREW, PAN 5X16	1	
33	9405006000	NUT, FLANGE 6MM	1	

HONDA GX120K1SM12 ENGINE — LABELS ASSY.

LABELS ASSY.



HONDA GX120K1SM12 ENGINE — LABELS ASSY.

LABELS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	87521ZH7020	EMBLEM	1	
3	87522ZH9000	LABEL, CAUTION	1	
4	87528ZE1810	MARK, CHOKE	1	
6	87532ZH8810	MARK, OIL ALERT (E)	1	

PAYMENT TERMS

Terms of payment for parts are net 10 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 here under 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.

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OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

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

CANADA

PARTS/SERVICE/WARRANTY

TOLL FREE 1-877-963-4411

PHONE: 1-514-351-2252

FAX: 1-514-351-3343

WORLD WIDE CORPORATE OFFICE

PARTS DEPARTMENT

800-427-1244 or 310/537-3700

FAX: 800-672-7877 or

310- 537-1173

SERVICE DEPARTMENT

800-478-1244 or 310-537-3700

FAX: 310-537-3927

WARRANTY DEPARTMENT

800-421-1244, EXT.279 or

310-537-3700

FAX: 310- 537-1173

MAIN

800-421-1244 or 310-537-3700

FAX: 310-537-3927



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