OPERATION AND PARTS MANUAL

MULTIQUIP

MULTIQUIP
MODEL QP-204H
CENTRIFUGAL PUMP

(Honda Gasoline Engine)

Revision #3 (06/05/06)

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

PARTS FINDER

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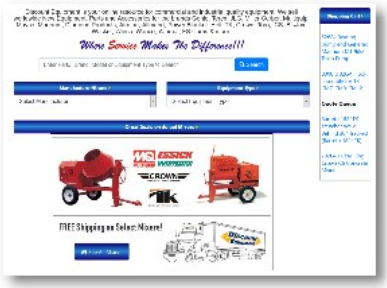

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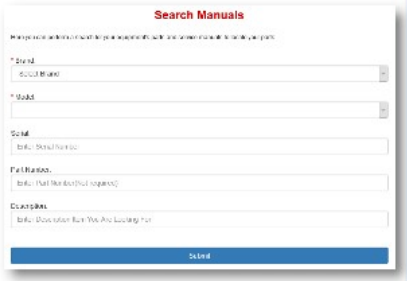

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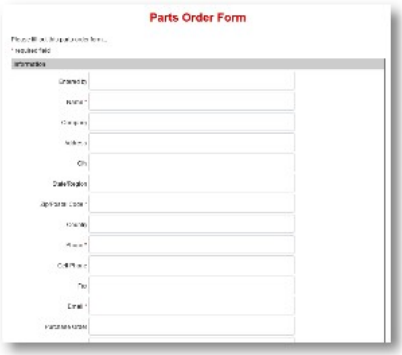

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⚠ WARNING ⚠

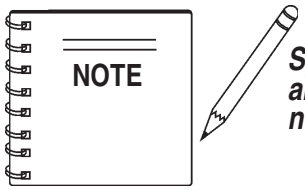
CALIFORNIA — Proposition 65 Warning

Engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

QP-204H Gasoline Powered Centrifugal Pump

Component Drawing

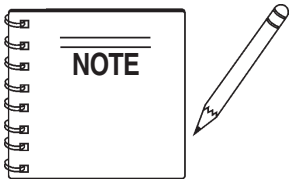
Honda GX120K1PX2/ GX120U1PX2 Engines



Specification and part number are subject to change without notice.

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 ***QP-204H Centrifugal Pump***.

Refer to the engine manufacturer's instructions for data relative to its safe operation.

Before using this centrifugal pump, 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 these directions.

WARNING

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

CAUTION

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

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.

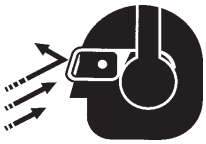
CAUTION - Rotating Parts

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 the pump is not in use.

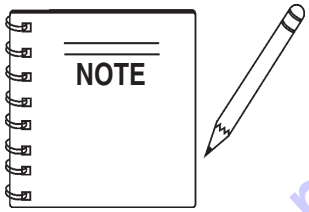
CAUTION - Sight and Hearing Hazards



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 pump, other property, or the surrounding environment.



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

⚠ DANGER

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 ***pump***:

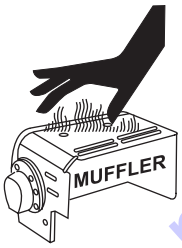
GENERAL SAFETY

- **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.

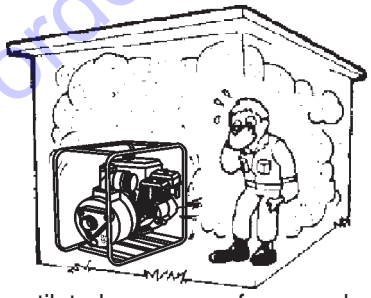
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence or drugs or alcohol.

- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- **ALWAYS** check the machine for loosened threads or bolts before starting.
- **ALWAYS** wear proper respiratory (mask) hearing and eye protection equipment when operating the pump.

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or plate 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 of this pump requires an adequate free flow of cooling air. ***NEVER!*** operate the pump 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 pump or engine and may cause injury to people and property. Remember the 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 equipment 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.
- Refer to the ***Engine Owner's Manual*** for engine technical questions or information.
- **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.
- **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.

- **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 operation 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.
- **NEVER** leave the pump unattended, turn off engine when unattended.
- Unauthorized equipment modifications will void all warranties.
- **NEVER** pump volatile, explosive, flammable or low flash point fluids. These fluids could ignite or explode.
- **NEVER** operate the pump in an ***explosive*** atmosphere.
- Before starting the pump, check that the clean-out cover is securely fasten.
- **ALWAYS** ensure pump is on level ground before use.
- Become familiar with the components of the pump before operating.
- **ALWAYS** replace any worn or damaged warning decals.
- **NEVER** pump corrosive chemicals or water containing toxic substances. These fluids could create serious health and environmental hazards. Contact local authorities for assistance.
- **NEVER** open the priming plug when pump is hot. Hot water inside could be pressurized much like the radiator of an automobile. Allow pump to cool to the touch before loosening plug. The possibility exists of scalding, resulting in severe bodily harm.

- **NEVER** open the pump housing during operation or start the pump with the clean-out cover removed. The rotating impeller inside the pump can cut or sever objects caught in it.
- **NEVER** block or restrict flow from discharge hose. Remove kinks from discharge line before starting pump. Operation with a blocked discharge line can cause water inside pump to overheat.
- **ALWAYS** fill the pump casing with water before starting the engine. Failure to maintain water inside the pump housing will cause severe damage to the pump.
- In winter drain water from pump housing to prevent freezing.

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.

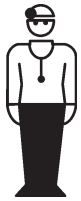
TRANSPORTING

- **ALWAYS** shutdown engine before transporting.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Drain fuel when transporting pump over long distances or bad roads.
- **ALWAYS** tie down the pump during transportation by securing the pump'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 case of an emergency.



- **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.

Table 1. Specifications (Pump)

Pump	**Model**	**QP-204H**
	Type	Centrifugal Pump
	Suction & Discharge Size	2.00 in. (51 mm.)
	Maximum Pumping Capacity	142 gallons/minute (538 liters/minute)
	Max. Lift	25 ft. (7.62 meters)
	Max. Head	115 ft. (35.0 meters)
Dimension (L x W x H)		19.0 x 14.0 X 16.0 in. (48 X 35 X 40 cm.)
Dry Net Weight		57 lbs. (26 Kg.)

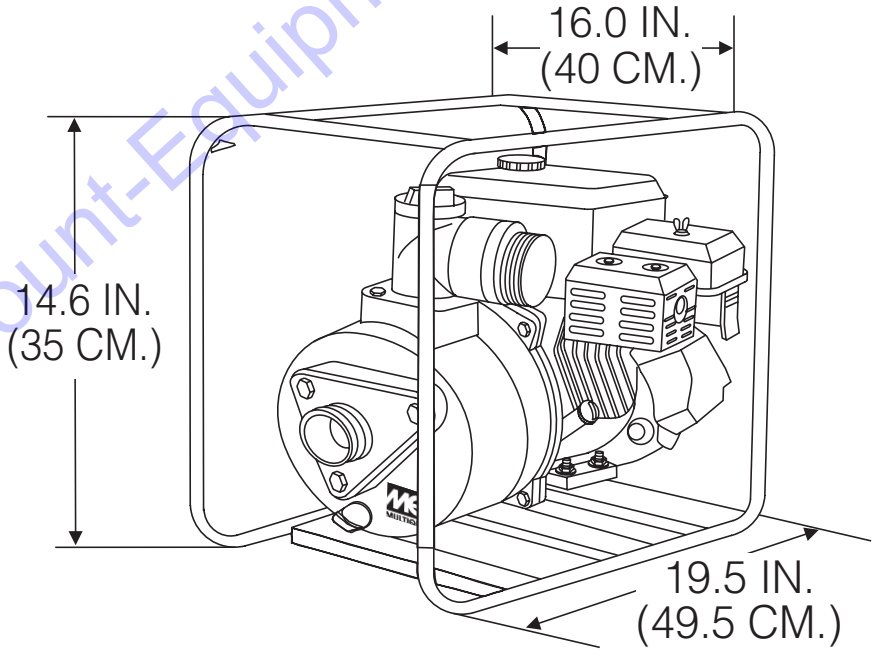


Figure 1. QP-204H Dimensions

Table 2. Specifications (Engine)

Engine	**Model**	**HONDA GX120K1PX2/GX120U1PX2**
	Type	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine
	Bore X Stroke	2.7 in. x 1.8 in. (68 mm x 45 mm)
	Displacement	163 cc (9.9 cu-in)
	Max Output	5.5 H.P./3600 R.P.M.
	Fuel Tank Capacity	Approx. 0.95 U.S. gallons (3.6 liters)
	Fuel	Unleaded Automobile Gasoline
	Lube Oil Capacity	.60 liters (0.63 qts)
	Speed Control Method	Centrifugal Fly-weight Type
	Starting Method	Recoil Start
Dimension (L x W x H)		12.0 x 14.4 x 13.2 in. (304 x 362 x 335 mm)
Dry Net Weight		33.1 lbs (15 Kg.)

APPLICATION

The ***QP204H Centrifugal Pump*** is designed to handle all types of clear water applications. It is ideal for residential use such as dewatering basements and swimming pools. Both the suction and discharge ports on the QP-204H pump use a 2-inch diameter opening, which allows the pump to pump at a rate of approximately 142 gallons/minute (gpm) or 538 liters/minute (lpm).

Centrifugal or self priming pumps are designed to purge air from the suction line and create a partial vacuum in the pump body. The reduced atmospheric pressure inside the pump allows water to flow through the suction line and into the pump body. The centrifugal force created by the rotating impeller pressurizes the water and expels it from the pump.

Power Plant

This centrifugal pump is powered by an 4.0 horsepower air cooled 4-stroke, single cylinder ***HONDA GX-120*** gasoline engine that incorporates a low "***Oil Alert Feature***"

Oil Alert Feature

In the event of ***low oil*** or ***no oil***, the HONDA GX-120 engine has a built-in oil alarm engine shut-down feature. In the event the oil level is low the engine will automatically shut-down.

Standard Centrifugal Pump

Standard centrifugal pumps provide an economical choice for general purpose dewatering. These types of pumps should only be used in ***clear water*** applications (agricultural, industrial, residential) as they have a limited solid handling capability of only 10% by volume.

Suction Lift

This pump is intended to be used for dewatering applications and is capable of suction lifts up to 25 feet at sea level. For optimal suction lift performance keep the suction hose or line as short as possible. In general, always place the pump as close to the water as possible.

Pump Support

The pump should always be placed on ***solid stationary ground***, on a level position.

NEVER place the pump on ***soft soil***. The suction hose or pipe connection should always be checked for tightness and leaks. A small suction leak in the hose or fittings could prevent the pump from priming.

Elevation

Higher elevations will effect the performance of the pump. Due to less atmospheric pressure at higher altitudes, pumps **DO NOT** have the priming ability that they have at sea level. This is due to the "thinner air" or lack of oxygen at higher altitudes.

A general rule of thumb is that for every 1,000 feet of elevation above sea level a pump will lose one foot of priming ability.

For example, in Flagstaff, Arizona where the elevation is approximately 7,000 feet, the pump would have a suction lift of only 18 feet rather than the 25 feet at sea level. Table 3 shows suction lift at various elevations.

Table 3. Suction Lift at Various Elevations

Altitude Feet (Meters)	Suction Lift in Feet (Meters)			
Sea Level	10.0 (3.048)	15.0 (4.572)	20.0 (6.096)	25.0 (7.620)
2,000 (610)	8.80 (2.680)	13.2 (4.023)	17.6 (5.364)	22.0 (6.705)
4,000 (1,219)	7.80 (2.377)	11.7 (3.566)	15.6 (4.754)	19.5 (5.943)
6,000 (1,829)	6.90 (2.103)	10.4 (3.169)	13.8 (4.206)	17.3 (5.273)
8,000 (2,438)	6.20 (1.889)	9.30 (2.834)	12.4 (3.779)	15.5 (4.724)
10,000 (3,048)	5.70 (1.737)	8.60 (2.621)	11.4 (3.474)	14.3 (4.358)

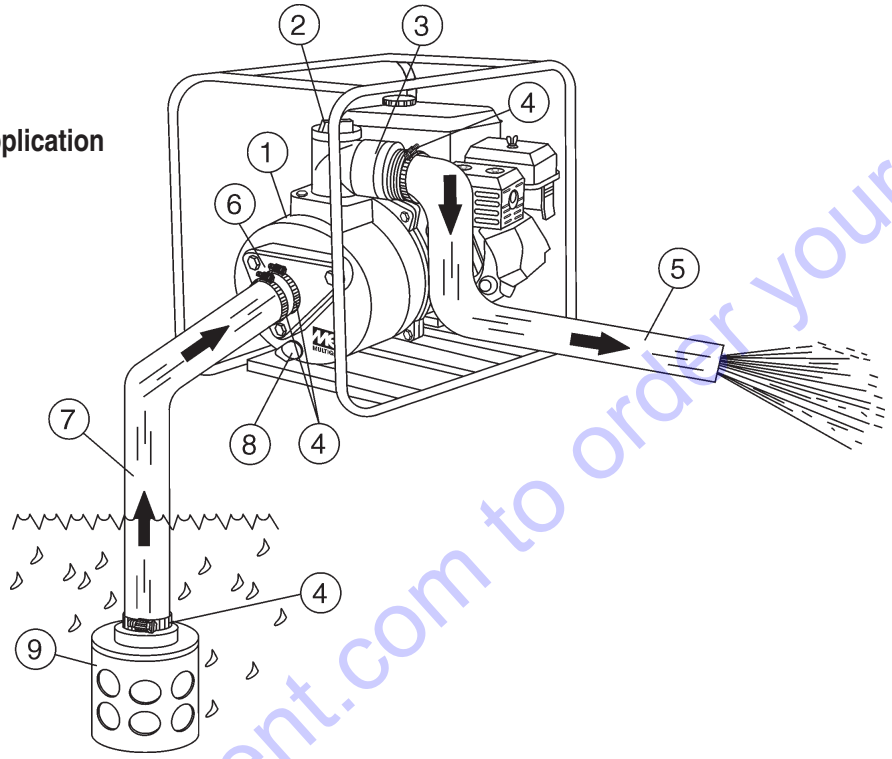
Table 4 shows percentage drops in performance as elevation increases.

Table 4. Performance Loss at Various Elevations

Altitude Feet (Meters	Discharge Flow	Discharge Head
Sea Level	100%	100%
2,000 (610)	97%	95%
4,000 (1,219)	95%	91%
6,000 (1,829)	93%	87%
8,000 (2,438)	91%	83%
10,000 (3,048)	88%	78%

Figure 2 shows a typical application using the QP-204H centrifugal pump. Please note that this pump is intended for the removal of clean water.

Figure 2. QP-204H Pump Application



1. **Pump –** The model QP-204H is 2-inch centrifugal pump used in general de-watering applications. Typical dewatering applications consist of dewatering basements and swimming pools.
2. **Fill Cap –** Prior to operation, the pump casing should be filled with water. Remove this cap to add water to the pump. After the initial prime, a sufficient amount of water will be retained in the casing so that the operator will not need to re-prime later.

   If the casing is dry or has insufficient water, the pump will have difficulty in priming which could lead to premature mechanical seal wear thus causing damage to the pump.
3. **Discharge Port –** Connect a 2-inch discharge hose to this port.
4. **Worm Clamp –** Used to secure the hose to the inlet and outlet ports on the pump. Use two clamps to secure the hose on the inlet side of the pump.
5. **Discharge Hose –** Connect this flexible rubber hose to the discharge port on the pump. Make sure that the hose lays flat and is not kinked. Use only recommended type discharge hose. Contact Multiquip parts department for ordering information.
6. **Suction Port –** Connect a 2-inch inlet hose to this port. Use two worm clamps to secure the hose.
7. **Suction Hose –** Connect this flexible rubber hose to the suction port on the pump. Make sure that the hose lays flat and is not kinked. Use only recommended type suction hose. Contact Multiquip parts department for ordering information.
8. **Drain Plug –** Remove this plug to drain water from the pump.
9. **Strainer –** Always attach a strainer to bottom side of the suction hose to prevent large objects and debris from entering the pump. Strainer should be positioned so that it will remain completely under water. Running the pump with the strainer above water for long periods can damage pump.

DANGER - Fueling The Engine

If pump is placed in a truck bed with a plastic liner, **REMOVE** pump from truck bed and place on ground (Figure 3) to refuel. The possibility of ***fire*** or ***explosion*** exists, due to static electricity.

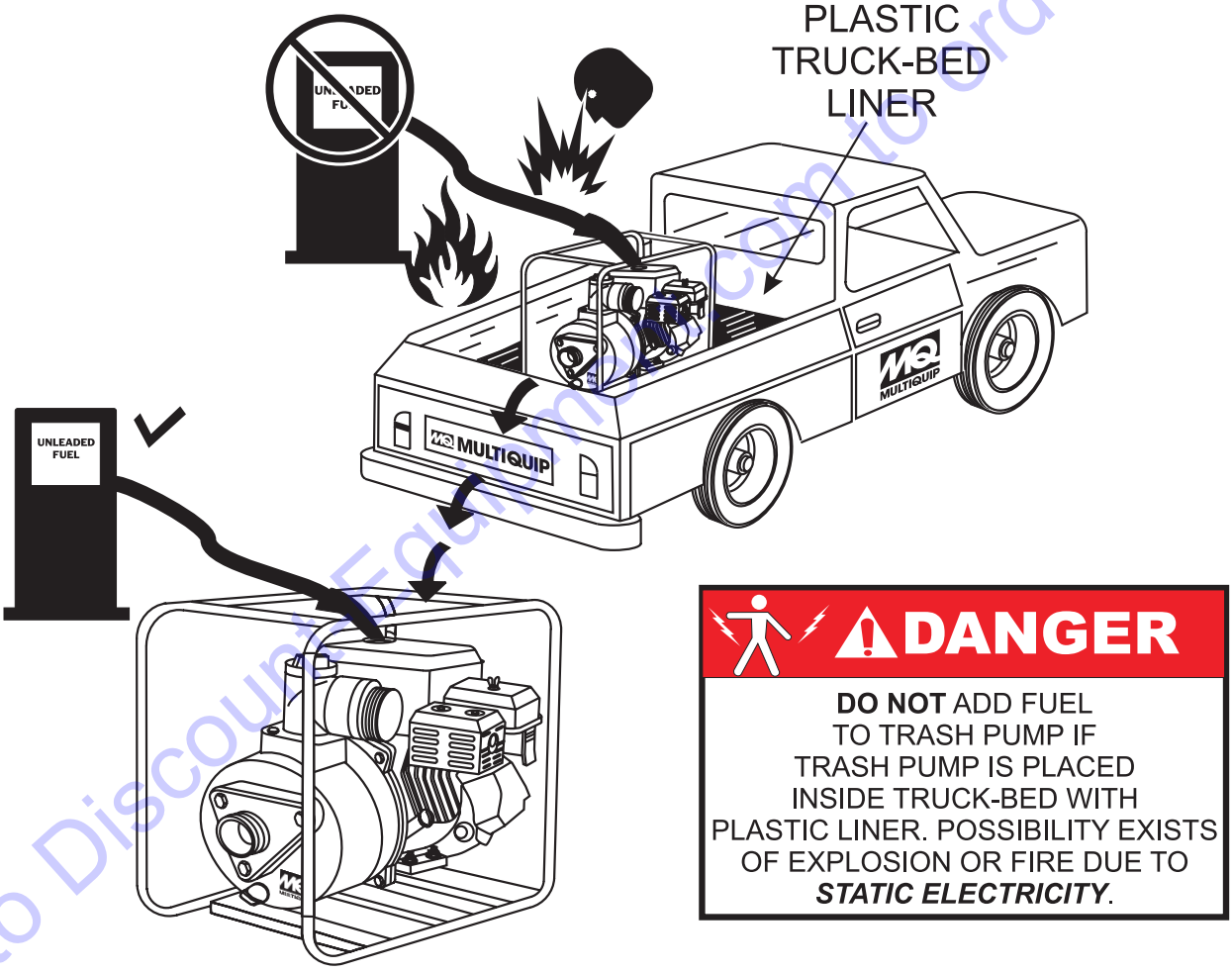


Figure 3. Pump Refueling

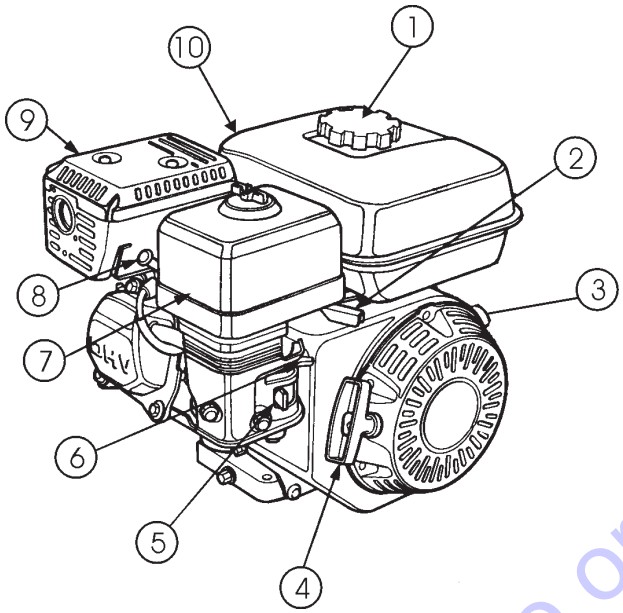


Figure 4. Engine Controls and Components

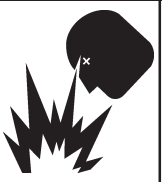
INITIAL SERVICING

The engine (Figure 4) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturers engine manual for instructions and details of operation and servicing. The engine shown above is a **HONDA** engine, operation for other types of engines may vary somewhat.

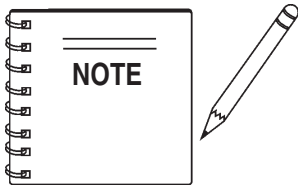
1. **Fuel Filler Cap –** Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.

⚠ CAUTION - Fueling The Engine

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.

⚠ CAUTION - Burn Hazard

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.

Pre-Inspection (Engine)

1. Read safety instructions at the beginning of manual.
2. Clean the pump, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one as required.
4. Check carburetor for external dirt and dust. Clean with dry compressed air.
5. Check fastening nuts and bolts for tightness.

Engine Oil Check

1. To check the engine oil level, place the pump on secure level ground with the engine stopped.
2. Remove the filler dipstick from the engine oil filler hole (Figure 5) and wipe clean.

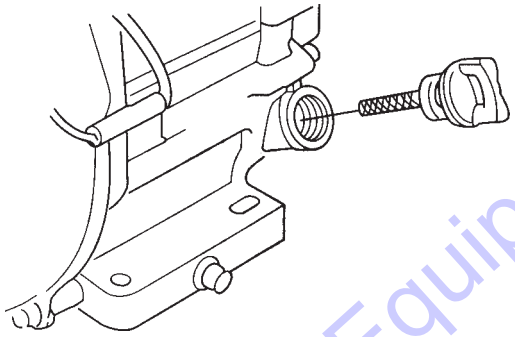


Figure 5. Engine Oil Dipstick (Removal)

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low (Figure 6), fill to the edge of the oil filler hole with the recommended oil type (Table 5). Maximum oil capacity is 1.16 quarts (1.1 liters)

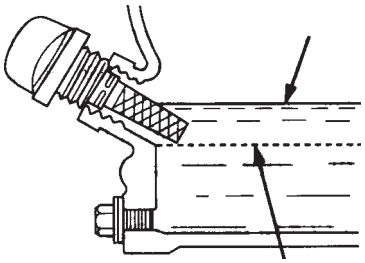
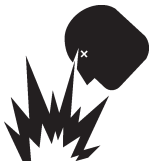


Figure 6. Engine Oil Dipstick (Oil Level)

Table 5. Oil Type

Season	Temperature	Oil Type
Summer	25°C or Higher	SAE 10W-30
Spring/Fall	25°C~10°C	SAE 10W-30/20
Winter	0°C or Lower	SAE 10W-10

⚠ WARNING - Explosive Fuel



Diesel 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** smoke while refueling. **DO NOT** attempt to refuel the pump if the engine is ***hot!*** or ***running***.

Fuel Check

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

Pre-Setup (Pump)

1. Read safety instructions at the beginning of manual.
2. Place pump as near to water as possible, on a firm flat, level surface.
3. To prime pump, remove fill cap (Figure 2) and fill pump casing with water. If the pump casing is not filled with water before starting, it will not begin pumping.

⚠ CAUTION - Pump Casing

Pump casing ***must*** be filled with water before using pump. Otherwise pump will not be able to begin pumping.

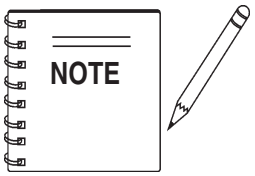
⚠ WARNING - High Pressure

DO NOT open ***fill cap*** if pump is **hot!** Water inside may be under pressure. The possibility exists of scalding, resulting in severe bodily harm.

4. Check for ***leaks*** between pump and engine. If water is leaking between the pump and engine housing, the seal inside the pump may be worn or damaged. Continued operation of the pump is not recommended. Further usage of the pump under these conditions may cause severe water damage to engine.

Hoses and Clamps

1. Check that all hoses are ***securely*** attached to the pump. Make certain suction hose (Figure 2) does not have any air leakage. Tighten hose clamps and couplings as required.
2. It is recommended that 2 clamps be used when securing the suction hose to the inlet side (suction) of the pump.
3. Remember suction hoses must be ***rigid*** enough not to collapse when the pump is in operation.
4. Check that the ***discharge*** hose (Figure 2) is not restricted. Place hose so that it lays as straight as it is possible on the ground. Remove any twists or sharp bends from hose which may block the flow of water.



Suction and discharge hoses are available from Multiquip. Contact your nearest dealer for more information.

5. The discharge hose is usually a ***collapsible*** (thin-walled) hose, however if a thin-walled discharge hose is not available, a rigid suction hose can be substituted in its place.
6. Make sure the ***suction strainer*** (Figure 2) is clean and securely attached to the water end of the suction hose. The strainer is designed to protect the pump by preventing large objects from being pulled into the pump.

⚠ CAUTION - Strainer

The strainer should be positioned so it will remain completely ***under water***. Running the pump with the strainer above water for long periods can damage the pump.

⚠ CAUTION - Flammable Fluids-Chemicals

DO NOT pump flammable fluids, corrosive chemicals or fluids containing toxic substances. These fluids can create potentially dangerous health and environmental hazards. Contact local authorities for assistance.

⚠ CAUTION - Mechanical Seal

This pump uses a water-cooled ***mechanical seal*** to prevent water from seeping into the engine. The passage of water through the pump casing lubricates the seal and prevents it from overheating. ***NEVER!*** operate the pump without water in the casing as this will cause damage to the mechanical seal.

⚠ CAUTION - Read Manual

DO NOT attempt to operate the pump 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 trash pump. It is extremely important that this section be read carefully before attempting to use the pump in the field.

Starting the Engine (*HONDA* engine)

1. Place the engine ***fuel valve lever*** (Figure 7) to the "**ON**" position.

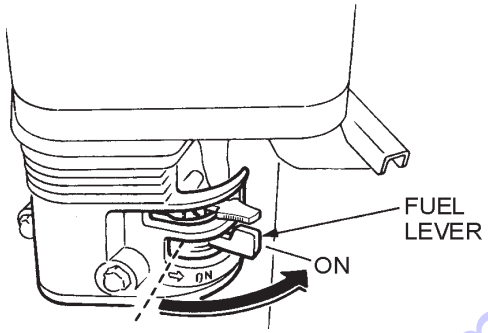


Figure 7. Engine Fuel Valve Lever (ON Position)

2. Move the ***throttle lever*** (Figure 8) away from the slow position, about 1/3 of the way toward the fast position.

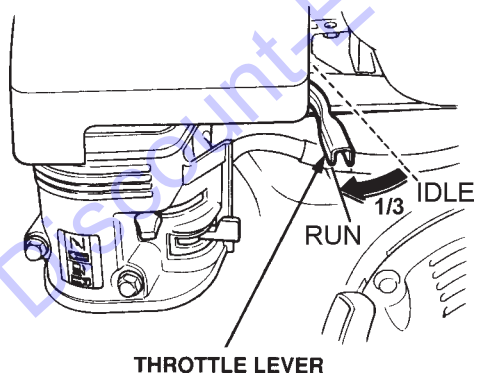


Figure 8. Throttle Lever (1/3 Start Position)

3. Place the ***choke lever*** (Figure 9) in the "***CLOSED***" position if starting a ***cold*** engine.

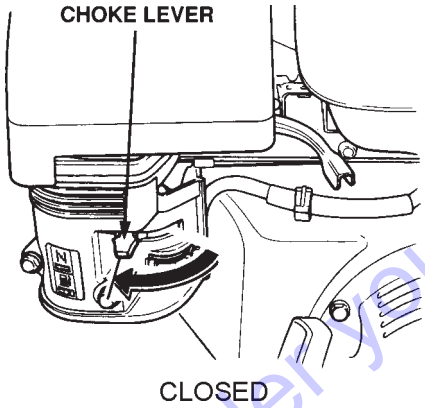


Figure 9. Engine Choke Lever (Closed)

4. Place the ***choke lever*** (Figure 10) in the "***OPEN***" position if starting a ***warm engine*** or the ***temperature is warm.***

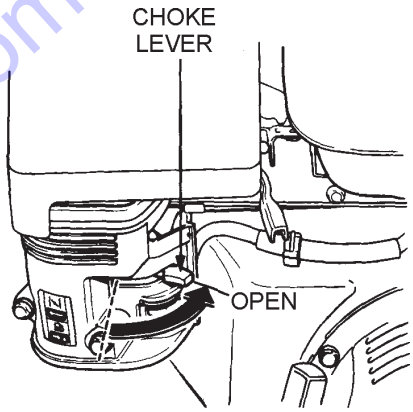


Figure 10. Engine Choke Lever (Open)

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

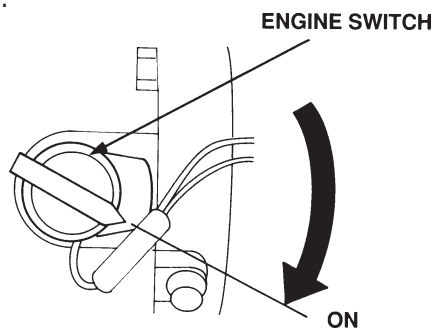


Figure 11. Engine ON/OFF Switch (ON Position)

6. Grasp the starter grip (Figure 12) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.

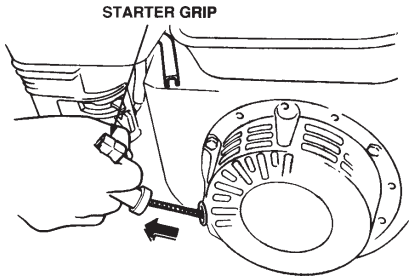


Figure 12. Starter Grip

7. If the engine has started, and the choke lever was moved to the ***CLOSED*** position to start the engine, gradually move the choke lever lever to the ***OPEN*** position as the engine warms up. If the engine has not started repeat steps 1 through 6.

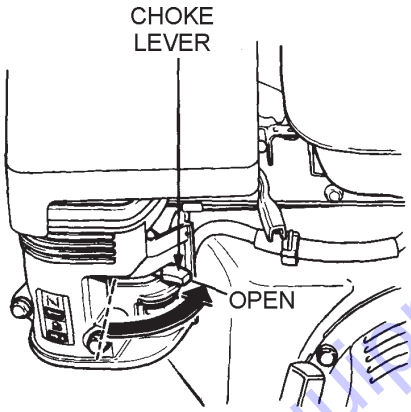


Figure 13. Choke Lever (Open)

8. Before the pump is placed into operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a lose component.

9. To begin pumping, place the throttle lever (Figure 14) in the "***RUN" position***.

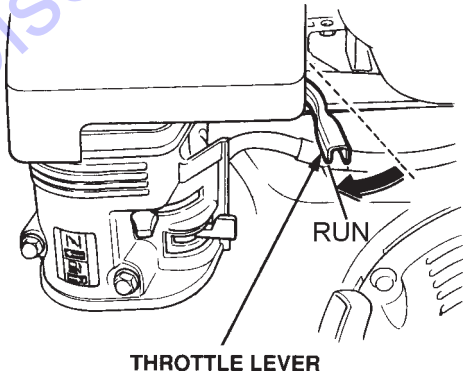


Figure 14. Throttle Lever (Run)

⚠ CAUTION - Maximum Engine Speed

ALWAYS run engine at ***full speed*** while pumping.

Stopping The Engine

Normal Shutdown

1. Move the throttle lever to the **IDLE** position (Figure 15) and run the engine for three minutes at low speed.

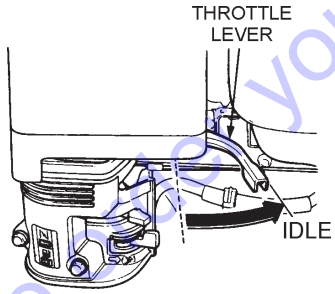


Figure 15. Throttle Lever (Idle)

2. After the engine ***cools***, turn the engine ON/OFF switch to the "**OFF**" position (Figure 16).

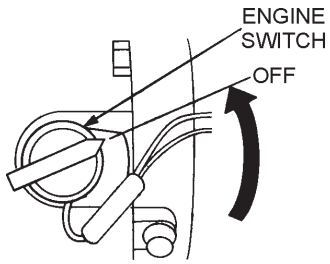


Figure 16. Engine ON/OFF Switch (OFF)

3. Place the ***fuel shut-off lever*** (Figure 17) in the **OFF** position.

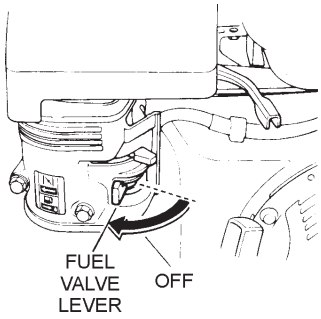


Figure 17. Fuel Valve Lever (OFF)

Emergency Showdown

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

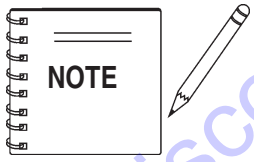
Pump Vacuum Test

CAUTION - Pump Priming

DO NOT attempt to start the engine unless the pump has previously been ***primed*** with water. Severe pump damage will occur if pump has not been primed.

To perform the pump vacuum test do the following:

1. Remove the pump fill cap (Figure 2), and fill the pump with water.
2. Start the engine as outlined in the initial start-up section, and wait for the pump to begin pumping.
3. As shown in Figure 18 (next page), place a water hose inside the discharge opening of the pump, and turn on the water. This flow of water into the discharge opening will ***prevent*** the pump from running dry.
4. Place the ***Pump Vacuum Tester*** (P/N 7000030) over the pump suction (inlet) opening (Figure 18) with the vacuum gauge facing upwards. It may be necessary to apply a small amount of water around the rubber seal of the vacuum tester to make a good suction fit.
5. Check and make sure that there are no air leaks between the vacuum tester and the inlet port on the pump. If air leaks are present reset vacuum tester.
6. Run the pump for a few minutes while monitoring the vacuum gauge. If the gauge indicates a reading between -25 and -20 in. Hg. (inches of mercury) then it can be assumed that the pump is working correctly.



25 in. Hg (inches of mercury) translates into 25 feet of lift at ***sea level***.

7. If the vacuum tester gauge indicates a reading ***below*** -20 in. Hg, it can then be assumed that the pump is not functioning correctly, and corrective action needs to be taken.
8. To test the ***flapper valve***, shut down the engine. The vacuum tester should remain attached to the pump suction inlet port by vacuum. This indicates the pump's flapper valve is seating properly to hold water in the suction hose when the engine is stopped. This prevents backflow and allows for faster priming when the engine is restarted.

CAUTION

DO NOT RUN PUMP WITHOUT WATER.

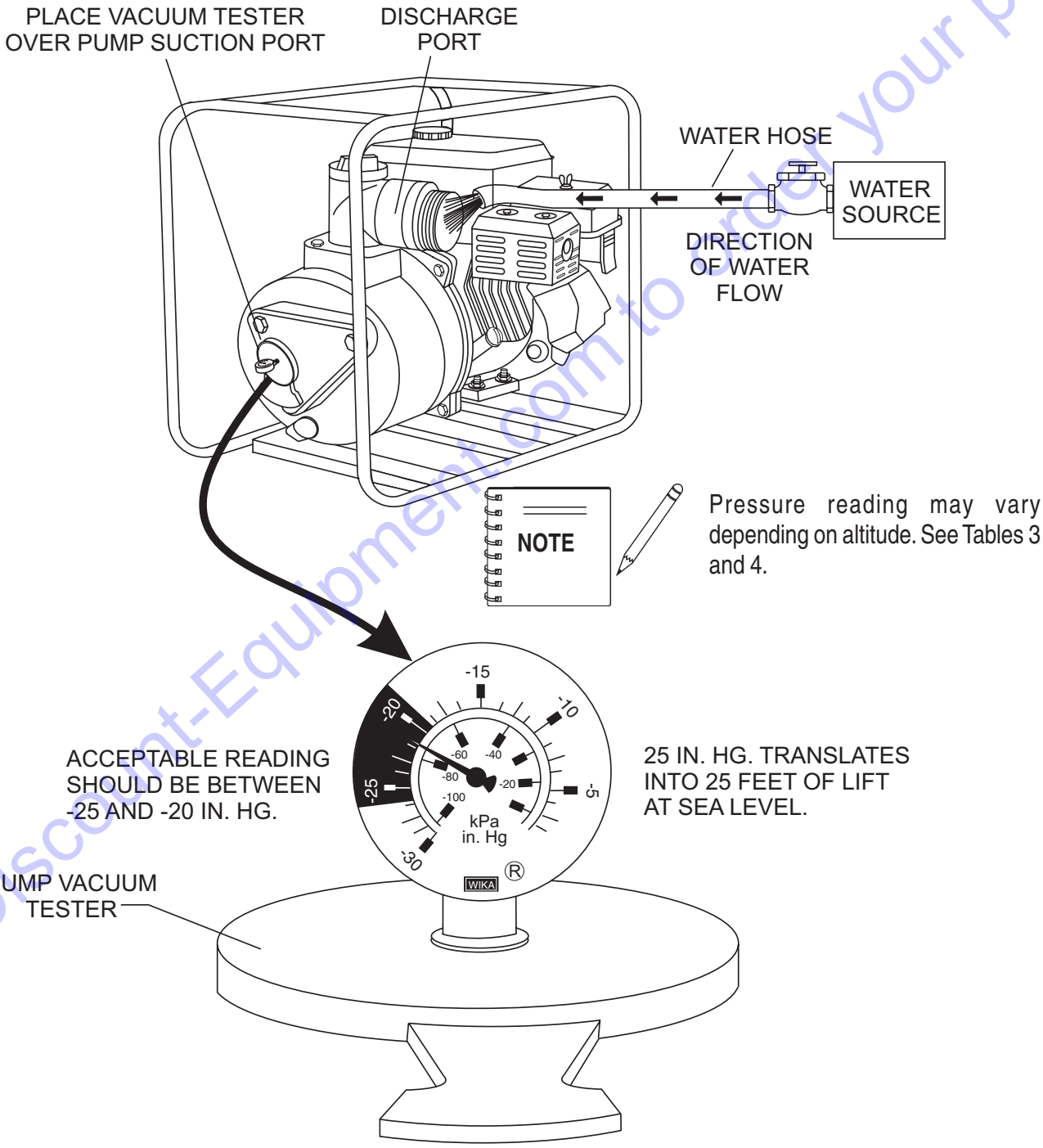


Figure 18. Pump Vacuum Tester

Engine Maintenance

Perform engine maintenance procedures as referenced by Table 6 below:

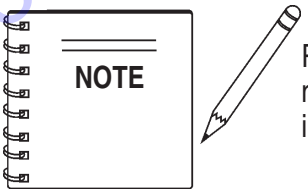
Table 6. Engine Maintenance Schedule

DESCRIPTION (3)	OPERATION	BEFORE	FIRST MONTH OR 10 HRS.	EVERY 3 MONTHS OR 25 HRS.	EVERY 6 MONTHS OR 50 HRS.	EVERY YEAR OR 100 HRS.	EVERY 2 YEARS OR 200 HRS.
Engine Oil	CHECK	X					
	CHANGE		X				
Air Cleaner	CHECK	X					
	CHANGE			X (1)			
All Nuts & Bolts	Re-tighten If Necessary	X					
Spark Plug	CHECK-CLEAN				X		
	REPLACE						X
Cooling Fins	CHECK				X		
Spark Arrester	CLEAN					X	
Fuel Tank	CLEAN					X	
Fuel Filter	CHECK					X	
Idle Speed	CHECK-ADJUST					X (2)	
Valve Clearance	CHECK-ADJUST						X (2)
Fuel lines	CHECK	Every 2 years (replace if necessary) (2)					

(1) Service more frequently when used in **DUSTY** areas.

(2) These items should be serviced by your servic dealer, unless you have the proper tools and are mechanically proficient. Refer to the HONDA shop Manual for service procedures

(3) For commercial use, log hours of operation to determine proper maintenance intervals.



Reference manufacturer engine manual for specific servicing instructions.

MAINTENANCE

Perform the engine maintenance procedures as indicated below:

DAILY

- Thoroughly remove dirt and oil from the engine and control area. Clean or replace the air cleaner elements as necessary. Check and retighten all fasteners as necessary. Check the spring box and bellows for oil leaks. Repair or replace as needed.

WEEKLY

- Remove the fuel filter cap and clean the inside of the fuel tank.
- Remove or clean the filter at the bottom of the tank.
- Remove and clean the spark plug (Figure 19), then adjust the spark gap to 0.028 ~0.031 inch (0.6~0.7 mm). This unit has electronic ignition, which requires no adjustments.

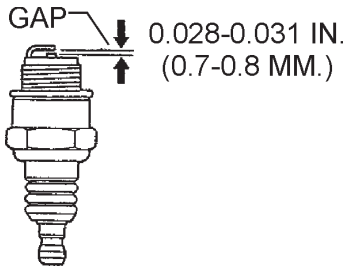


Figure 19. Spark Plug Gap

ENGINE OIL

1. Drain the engine oil when the oil is ***warm*** as shown in Figure 20.
2. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
3. Replace engine oil with recommended type oil as listed in Table 5. Engine oil capacity is 1.16 quarts (1.1 liters). **DO NOT** overfill.
4. Install drain bolt with sealing washer and tighten securely.

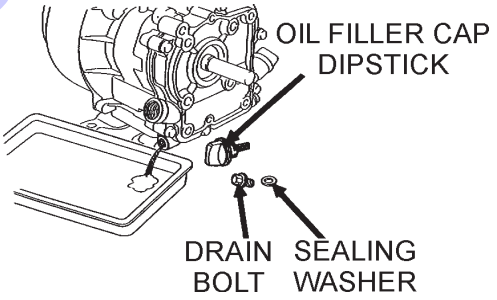


Figure 20. Engine Oil (Draining)

⚠ DANGER - Cleaning Solvents

The **DO NOT** use gasoline as a cleaning solvent, because that would create a risk of fire or explosion.

ENGINE AIR CLEANER

1. Remove the air cleaner cover and foam filter element as shown in Figure 21.
2. Tap the paper filter element (Figure 21) several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm^2)] through the filter element from the air cleaner case side. ***NEVER*** brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.
3. Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.

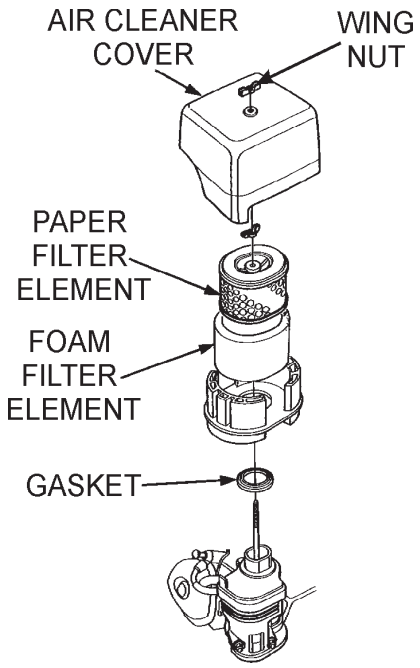


Figure 21. Engine Air Cleaner

Pump Storage

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

- Drain the fuel tank completely.
- Run the engine until the fuel in the carburetor is completely consumed.
- Completely drain used oil from the engine crankcase and fill with fresh clean oil, then follow the procedures described in the engine manual for engine storage.
- Remove the drain plug from the pump and drain out any water from left in the housing.
- Remove the pump cover and clean inside of pump housing. Coat inside of pump housing with a light film of oil to reduce corrosion. A spray can of oil works well for this application.
- Cover suction and discharge ports with duct tape to prevent any foreign matter from falling into pump.
- Cover pump and engine with plastic covering or equivalent and store in a clean, dry place.
- To protect the water cooled-seals, place one-half pint of lubricating oil (new or used) through the discharge opening on the pump and crank the engine several times. This will prevent excessive corrosion and also keep the mechanical seal lubricated.

TABLE 7. ENGINE TROUBLESHOOTING		
SYMPTOM	**POSSIBLE PROBLEM**	**SOLUTION**
Difficult to start		
Fuel is available but spark plug will not ignite. (Power available at high tension cable).	Ignition plug being bridge?	Check ignition system.
	Carbon deposit at ignition?	Clean or replace ignition.
	Short circuit due to defective insulators?	Replace insulators.
	Improper spark gap?	Set spark plug gap to the correct gap.
Fuel is available but spark plug will not ignite. (Power **NOT** available at high tension cable).	Short circuit at stop switch?	Check stop switch circuit. Replace stop switch if defective.
	Ignition coil defective?	Replace ignition coil.
Fuel is available and spark plug ignites (compression **normal)**.	Muffler clogged with carbon deposits?	Clean or replace muffler.
	Mixed fuel quality is inadequate?	Check fuel to oil mixture.
	Fuel in use inadequate (water, dust)?	Flush fuel sytem and replace with fresh fuel.
	Air Cleaner clogged?	Clean or replace air cleaner.
Fuel is available and spark plug ignites (compression **low**).	Defective cylinder head gasket?	Tighten cylinder head bolts or replace head gasket.
	Cylinder worn?	Replace cylinder.
	Spark plug loose?	Tighen spark plug.
Operation not satisfactory		
Not enough power available (compression normal, no miss-firing).	Air cleaner clogged?	Clean or replace air cleaner.
	Air in fuel line?	Bleed (remove air) from fuel line.
	Fuel level in carbureator float chamber improper?	Adjust carbureator float
	Carbon deposits in cylinder?	Clean or replace cylinder
Not enough power available (compression normal, miss-firing).	Ignition coil defective?	Flush fuel sytem and replace with fresh fuel.
	Ignition plug often shorts?	Replace ignition wires, clean ignition.
	Fuel in use inadequate (water, dust)?	Flush fuel sytem and replace with fresh fuel.
Engine overheats.	Excessive carbon depostion in combustion chamber?	Clean or replace crankcase.
	Exhaust or muffler clogged with carbon.	Clean or replace muffler.
	Spark plug heat value incorrect?	Replace spark plug with correct type spark plug.

TABLE 7. ENGINE TROUBLESHOOTING (Continued)		
SYMPTOM	**POSSIBLE PROBLEM**	**SOLUTION**
Operation not satisfactory		
Rotational speed fluctuates.	Governor adjustment improper?	Adjust governor to correct lever.
	Governor spring defective?	Clean or replace ignition.
	Fuel flow erratic?	Check fuel line.
	Air taken in through suction line?	Check suction line.
Recoil starter not working properly.	Dust in rotating part?	Clean recoil starter assembly.
	Spring spring failure?	Replace sprial spring.

TABLE 8. PUMP TROUBLESHOOTING		
SYMPTOM	**POSSIBLE PROBLEM**	**SOLUTION**
Pump does not take on water.	Not enough priming water in the housing?	Add water.
	Engine speed too low?	Increase throttle.
	Strainner plugged?	Clean strainer.
	Suction hose damaged?	Replace or repair hose, and clamps
	Air leak at suction port?	Check that fittings are tight and properly sealed.
	Pump is located too high above water line?	Move pump closer to water.
	Debris collecting in pump housing?	Clean pump housing.
	Too much distance between impeller and volute.	Adjust clearance by adding shims or replace impeller. Min. .006" - Max. .020"
	Water leaking out weep hole between pump and engine?	Check condition of mechanical seal and gaskets, between pump end and engine housing.
Pump takes in water, little or no discharge.	Engine speed too low?	Increase throttle speed.
	Suction strainer partially plugged?	Clean strainer.
	Impeller/Volute worn?	Adjust clearance by adding shims or replace impeller/volute
Suction hose leaks at inlet.	Fittings/clamps are not sealed properly?	Tighten, replace or add clamp. (Keep extra seals on pump)
	Hose diameter is too large?	Use smaller diameter hose or replace hose.
Discharge does not stay on coupling.	Pressure too high?	Check pressure, add additional clamp.
	Hose kinked or end blocked?	Check hose.
Impeller does not turn: pump is hard to start.	Impeller jammed or blocked?	Open pump cover and clean dirt and debris from inside housing.
	Impeller and volute binding?	Adjust clearance by removing shim from behind impeller.
	Defective engine?	See Engine Owner's Manual.

QP-204H — 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.

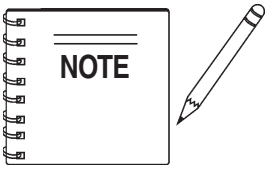
Sample Parts List:

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.

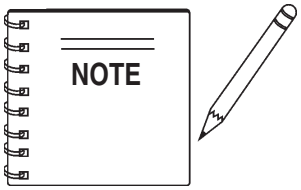
Indicated by:
"XXXXX ONLY"
"NOT USED ON XXXX"

"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.

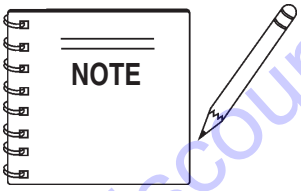
"Not Sold Separately" - Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

QP-204H CENTRIFUGAL PUMP 1 TO 3 UNITS WITH HONDA GX120K1PX2/ GX120U1PX2 ENGINE(S)

Qty.	P/N	Description
2	KIT204	KIT, PUMP
2	0631211100	DRAIN CAP, FLOODING
2	0480350300	O-RING DRAIN CAP
1	9258000030	IMPELLER
2	17210ZE0505	ELEMENT AIR CLEANER DUAL
3✠	9807956846	SPARK PLUG
3◊	9807955855	SPARK PLUG
3✠	28462ZH8003	ROPE STARTER
3	28461ZH8003	ROPE STARTER
1	17620ZH7023	CAP, FUEL WITH GASKET

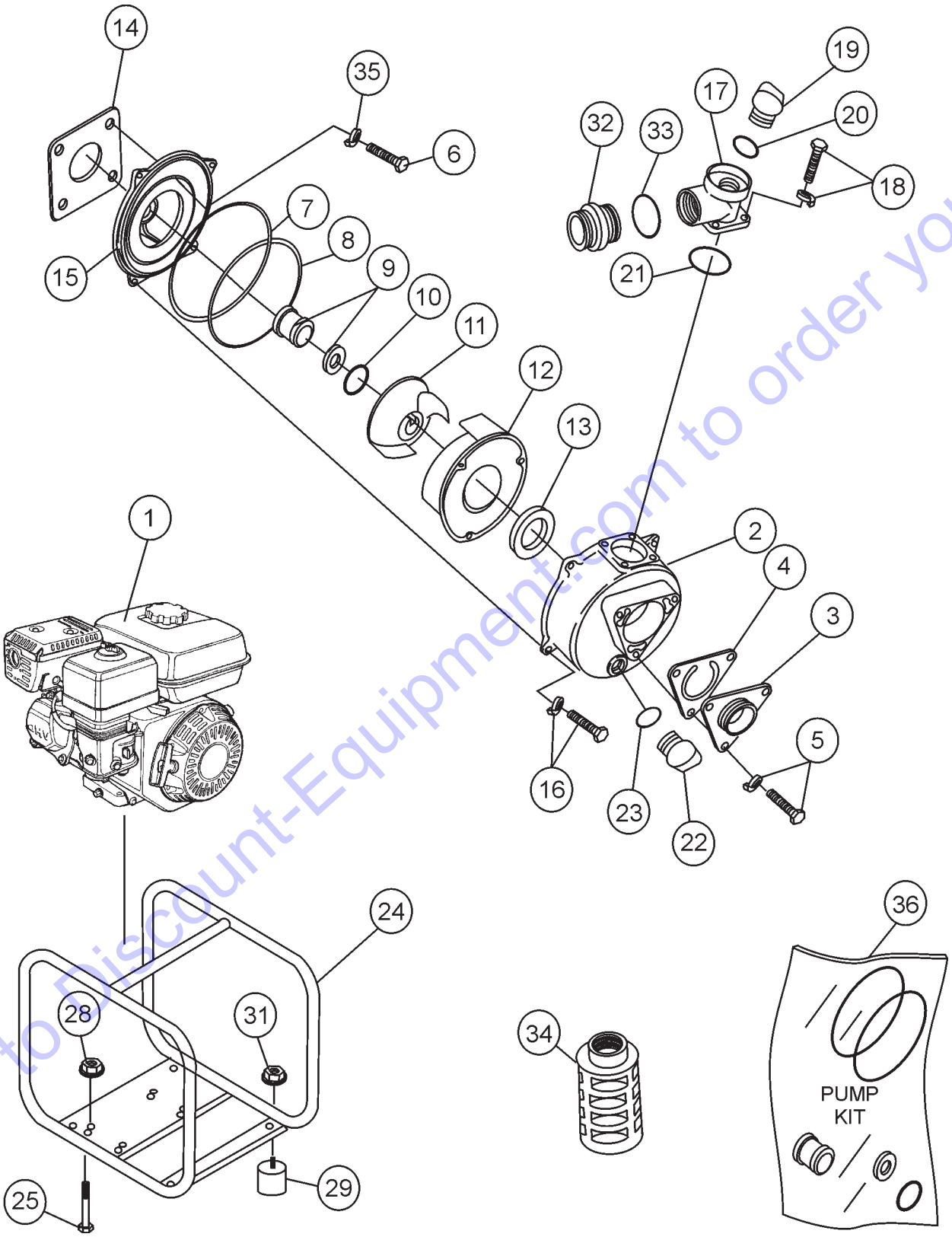


Part number on this Suggested Spare Parts List may super cede/ replace the P/N shown in the text pages of this book.



✠ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

PUMP ASSY.

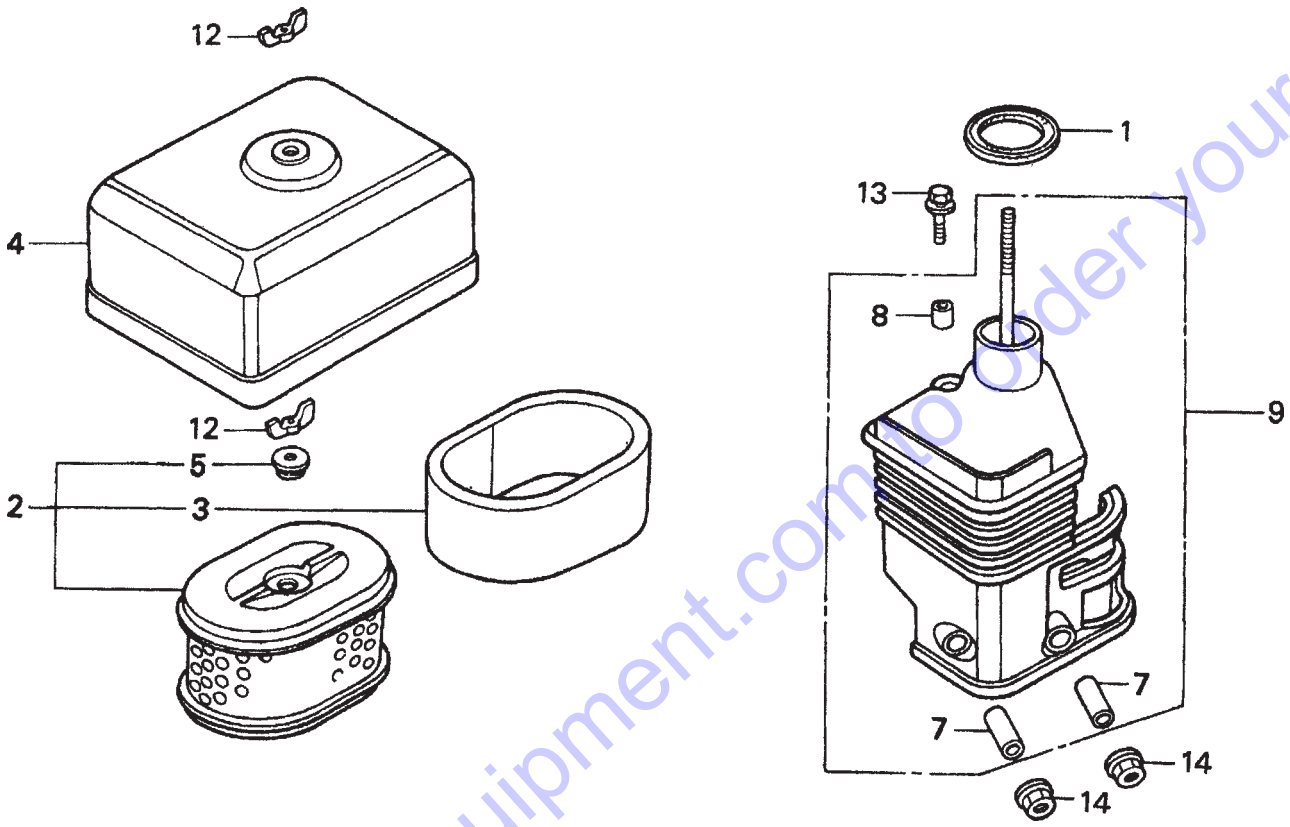


PUMP ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	GX120K1PX2	ENGINE, HONDA	1	S/N 204H-19761 AND BELOW
1	GX120U1PX2	ENGINE, HONDA	1	S/N 204H-19762 AND ABOVE
2	1293100010	CASING	1	
3	1808000160	SUCTION COVER NPT2”	1	REPLACES 1808100160
4	1293350350	CHECK VALVE	1	
5	0181050820	BOLT SET WITH SPRING WASHER	3	REPLACES 0820018105
6	0181050820	BOLT SET WITH SPRING WASHER	4	REPLACES 0820018105
7*	0489242100	O-RING (CASING). DIA 2.4 X DIA. 210	1	REPLACES 2100048924
8*	0489241780	O-RING (VOLUTE CASING)	1	REPLACES 1780048924
9*	0803442320	MECHANICAL SEAL SILCON CARBIDE	1 SET	REPLACES 0803112320
10*	0852831600	ADJUST LINER DIA. 0.3 THICKNESS	1~3	REPLACES 1713085283
10*	0852851600	ADJUST LINER DIA. 0.5 THICKNESS	1~3	REPLACES 1713085283
11	9258000030	IMPELLER	1	REPLACES 1293000030
12	1808000130	VOLUTE CASING	1	
13	1293330620	VOLUTE CASING PACKING	1	
14	1211390610	CASING COVER PACKING	1	
15	9258100020	CASING COVER	1	REPLACES 1293100020
16	0181050825	BOLT SET WITH SPRING WASHER (DELIVERY ELBOW) M8 X 25	4	REPLACES 0820018105
17	9246100090	DELIVERY ELBOW NPS2”	1	
18	0181050820	BOLT SET WITH SPRING WASHER	4	REPLACES 0820018105
19	0631211100	FLOODING CAP PF1”	1	REPLACES 1100063121
20	0480350300	O-RING (FLOODING CAP) P30	1	REPLACES 0300048035
21	0481310550	O-RING (DELIVERY ELBOW) G55	1	REPLACES 0550048131
22	0631211060	DRAIN CAP PF3/4”	1	REPLACES 1060063121
23	0480240220	O-RING (DRAIN CAP) P22	1	REPLACES 0220048024
24	1808214010	BASE	1	REPLACES 1293214010
25	0105050840	BOLT (ENGINE) M8 X 40	4	REPLACES 0840010505
28	0209150080	FLANGE NUT (ENGINE) M8	4	
29	0723322030	CUSHION RUBBER	4	REPLACES 2030072332
31	0209150060	FLANGE NUT (CUSHION RUBBER) M6	4	REPLACES 0060020545
32	0790432020	NIPPLE (DELIVERY) NPS2” X NPT2”	1	REPLACES 1279001800
33	0481310550	O-RING (NIPPLE) G55	1	REPLACES 0550048131
34	0742303050	STRAINER NPT2”	1	REPLACES 1279308020
35	0451250080	SPRING WASHER M8	4	
36	KIT204	KIT, PUMP	1	INCLUDES ITEMS W/*

HONDA GX120K1PX2/GX120U1PX2 ENG. — AIR CLEANER (DUAL) ASSY.

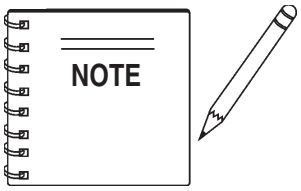
AIR CLEANER (DUAL) ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENG. — AIR CLEANER (DUAL) ASSY.

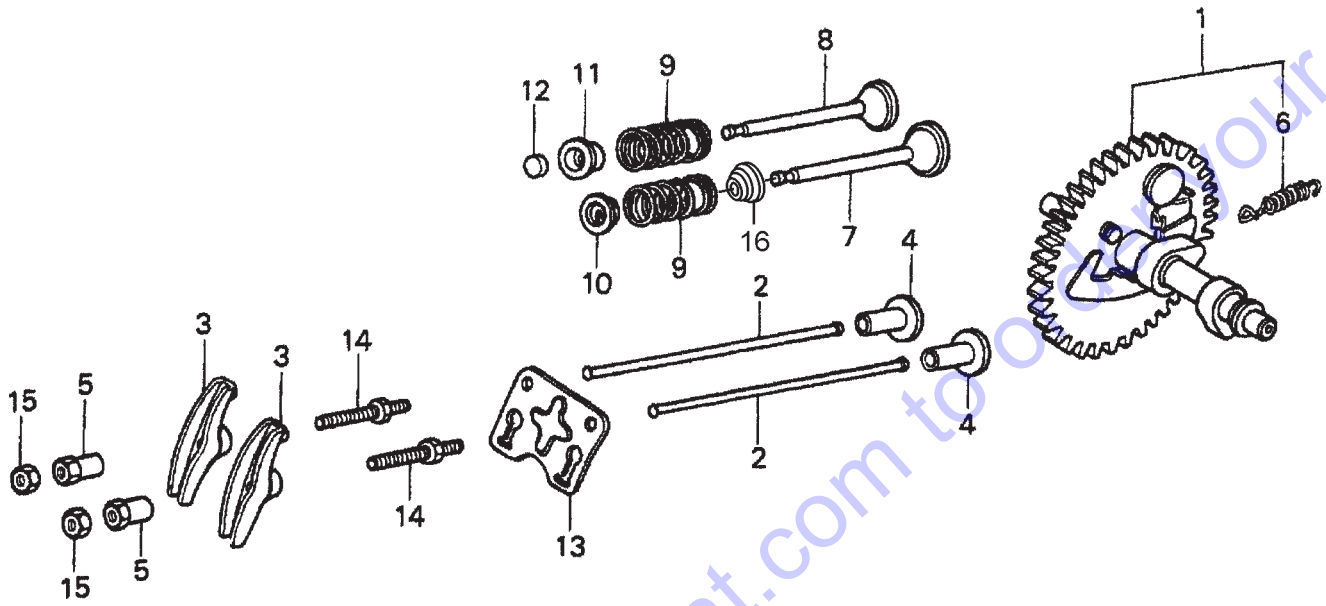
AIR CLEANER (DUAL) ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	16271ZE1000	GASKET, ELBOW	1	
2✠	17210ZE0505	ELEMENT, AIR CLEANER (DUAL)	1	INCLUDES ITEMS W/#
2◊	17210ZE0822	ELEMENT, AIR CLEANER (DUAL)	1	INCLUDES ITEMS W/%
3✠#	17218ZE0505	FILTER, OUTER	1	
3◊%	17218ZE0821	FILTER, OUTER	1	
4	17230ZE0820	COVER, AIR CLEANER (DUAL)	1	
5#%	17323891000	GROMMET, AIR CLEANER	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	



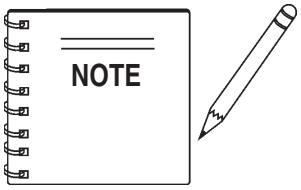
✠ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

CAMSHAFT ASSY.



CAMSHAFT ASSY.

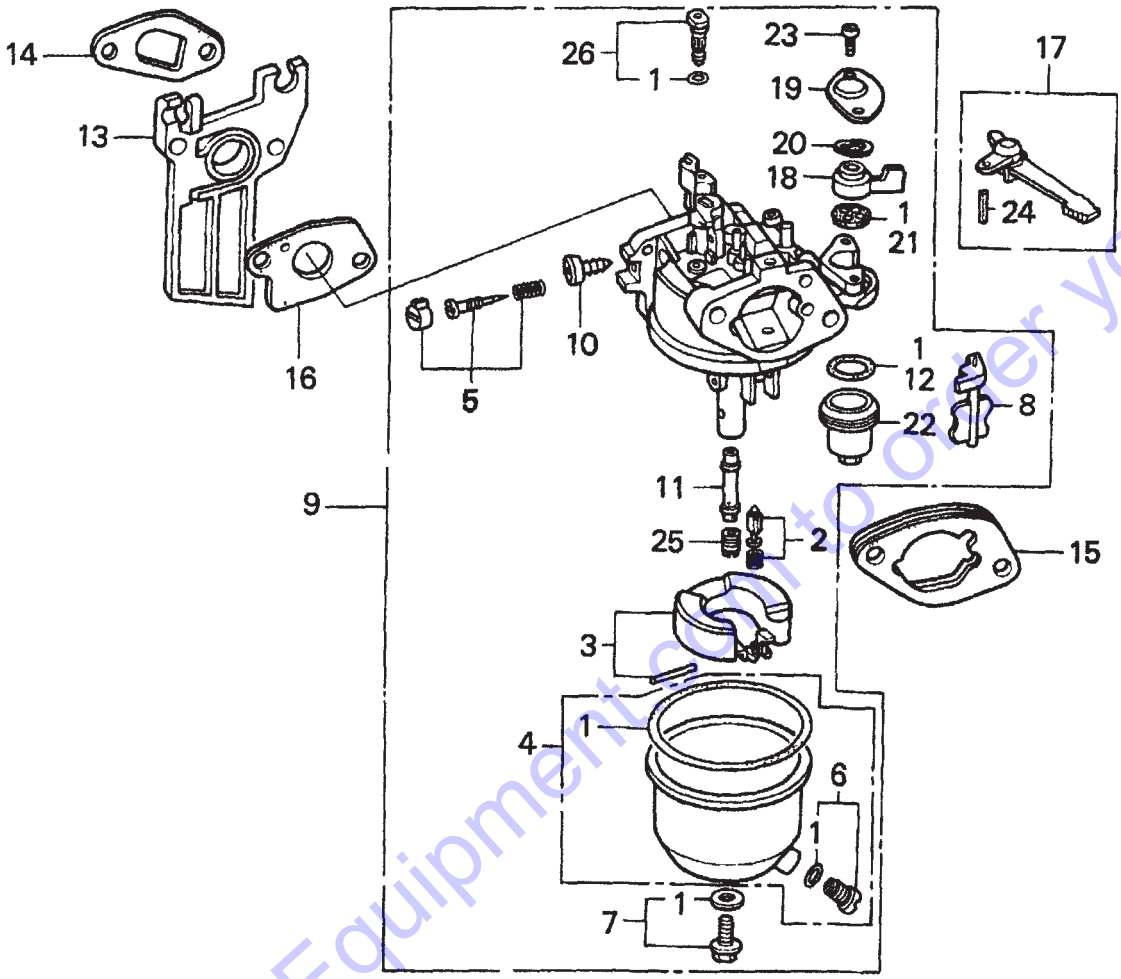
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	14100ZE0812	CAMSHAFT ASSEMBLY	1	INCLUDES ITEMS W/#
2	14410ZE0010	ROD, PUSH	2	
3	14431ZE1000	ARM, VALVE ROCKER	2	
4✖	14441ZE1000	LIFTER, VALVE	2	S/N 2828018 AND BELOW
4✖	14441ZE1010	LIFTER, VALVE	2	S/N 2828019 AND ABOVE
4◊	14441ZE1010	LIFTER, VALVE	2	
5	14451ZE1013	PIVOT, ROCKER ARM	2	
6#	14568ZE1000	SPRING, WEIGHT RETURN	1	
7✖	14711ZF0000	VALVE, IN.	1	S/N 3890562 AND BELOW
7✖	14711ZF0010	VALVE, IN.	1	S/N 3890563 AND ABOVE
7◊	14711ZF0010	VALVE, IN.	1	
8	14721ZH7810	VALVE, EX. (STELITE)	1	
9	14751ZF1000	SPRING, VALVE	2	
10	14771ZE1000	RETAINER, IN. VALVE SPRING	1	
11	14773ZE1000	RETAINER, EX. VALVE SPRING	1	
12	14781ZE1000	ROTATOR, VALVE	1	
13	14791ZE0010	PLATE, PUSH ROD GUIDE	1	
14	90012ZE0010	BOLT, PIVOT 8MM	2	
15	90206ZE1000	NUT, PIVOT ADJ.	2	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

HONDA GX120K1PX2/GX120U1PX2 ENGINE— CARBURETOR ASSY.

CARBURETOR ASSY.

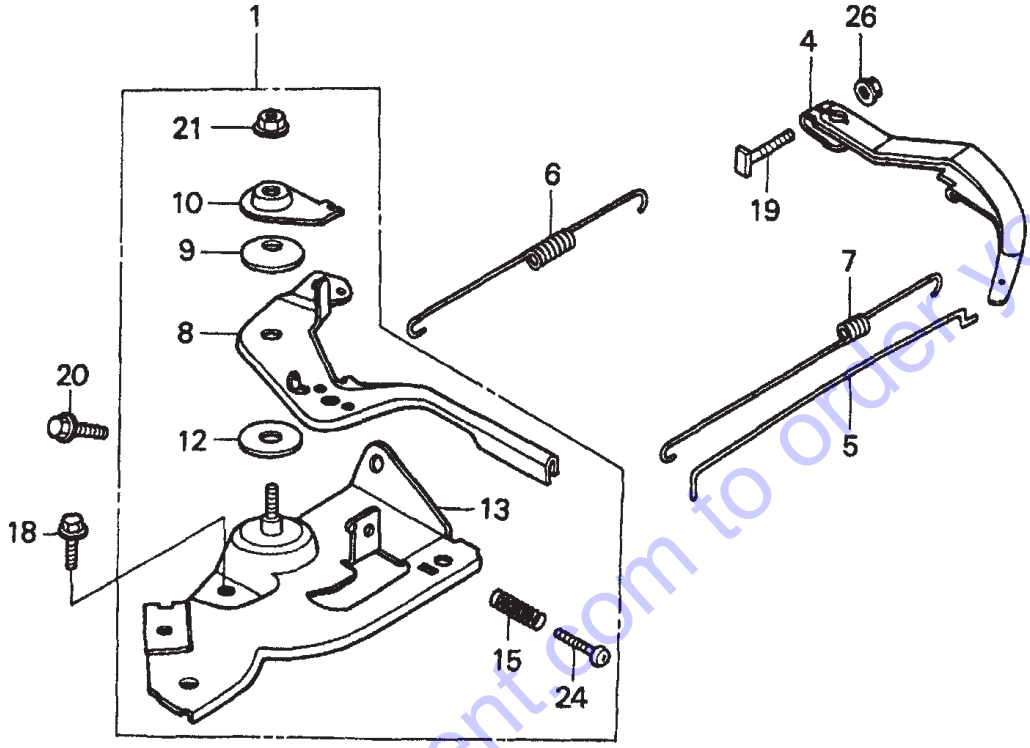


HONDA GX120K1PX2/GX120U1PX2 ENGINE— CARBURETOR ASSY.

CARBURETOR ASSY.

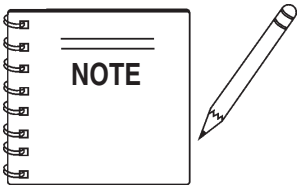
NO.	PART NO.	PART NAME	QTY.	REMARKS
1*	16010ZE1812	GASKET SET	1	
2*	16011ZE0005	VALVE SET, FLOAT	1	
3*	16013ZE0005	FLOAT SET	1	
4*	16015ZE1811	CHAMBER SET, FLOAT	1	
5*	16016ZH7W01	SCREW SET	1	
6*	16024ZE1811	SCREW SET, DRAIN	1	
7*	16028ZE0005	SCREW SET B	1	
8*	16044ZE0005	CHOKE SET	1	
9	16100ZH7W51	CARBURETOR ASSEMBLY, BE60B B	1	INCLUDES ITEMS W/*
10*	16124ZE0005	SCREW, THROTTLE STOP	1	
11*	16166ZH7W50	NOZZLE, MAIN	1	
12*	16173001004	GASKET, FUEL STRAINER CUP	1	
13	16211ZE0000	INSULATOR, CARBURETOR	1	
14	16212ZH7800	GASKET, INSULATOR	1	
15	16220ZE1020	SPACER, CARBURETOR	1	
16	16221ZH8801	GASKET, CARBURETOR	1	
17	16610ZE1000	LEVER, CHOKE (STANDARD)	1	INCLUDES ITEMS W/+
18*	16953ZE1812	LEVER, VALVE	1	
19*	16954ZE1811	PLATE, LEVER SETTING	1	
19*	16954ZE1812	PLATE, LEVER SETTING	1	
20*	16956ZE1811	SPRING, VALVE LEVER	1	
21*	16957ZE1812	GASKET, VALVE	1	
22*	16967ZE1811	CUP, FUEL STRAINER	1	
23*	93500030080G	SCREW, PAN 3 X 8	2	
24*+	9430520122	PIN, SPRING 2 X 12	1	
25	99101ZH80550	JET, MAIN #55 (OPTIONAL)	1	
25	99101ZH80580	JET, MAIN #58 (OPTIONAL)	1	
25*	99101ZH80600	JET, MAIN #60	1	
26*	99204ZH00350	JET, MAIN #35	1	

CONTROL ASSY.



CONTROL ASSY.

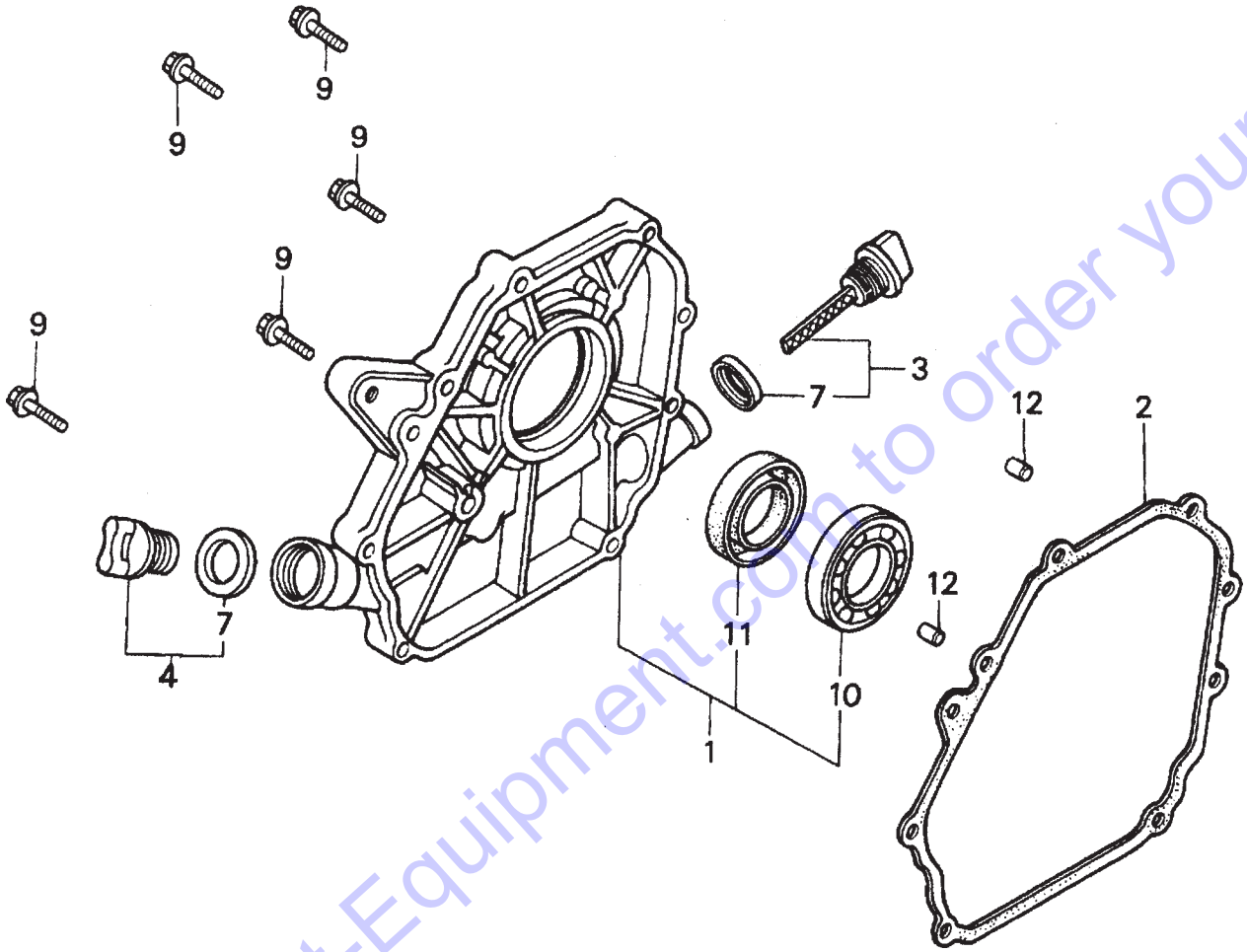
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	16500ZH7000	CONTROL ASSEMBLY	1	INCLUDES ITEMS W/#
4	16551ZE0010	ARM, GOVERNOR	1	
5	16555ZE0000	ROD, GOVERNOR	1	
6	16561ZE0020	SPRING, GOVERNOR	1	
7	16562ZE0020	SPRING, THROTTLE RETURN	1	
8#	16571ZH7000	LEVER, CONTROL	1	
9#	16574ZE1000	SPRING, LEVER	1	
10#	16575ZH8000	WASHER, CONTROL LEVER	1	
12#	16578ZE1000	SPACER, CONTROL LEVER	1	
13#	16580ZH7000	BASE, CONTROL	1	
14#	16575ZH8000	WASHER, CONTROL LEVER	1	
15#	16584883300	SPRING, CONTROL ADJUSTING	1	
18	90013883000	BOLT, FLANGE 6X12 (CT200)	1	
19	90015ZE5010	BOLT, GOVERNOR ARM	1	
20	90022888010	BOLT, FLANGE 6X20 (CT200)	1	
21#	90114SA0000	NUT, SELF- LOCK 6MM	1	
24✖#	93500050280A	SCREW, PAN 5X28	1	S/N 2812716 AND BELOW
24✖#	93500050250H	SCREW, PAN 5X25	1	S/N 2812717 AND ABOVE
24◊#	93500050250H	SCREW, PAN 5X25	1	
26	9405006000	NUT, FLANGE 6MM	1	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

HONDA GX120K1PX2/GX120U1PX2 ENGINE— CRANKCASE COVER ASSY.

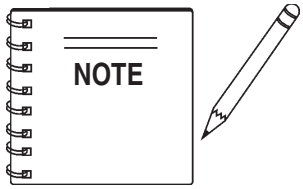
CRANKCASE COVER ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— CRANKCASE COVER ASSY.

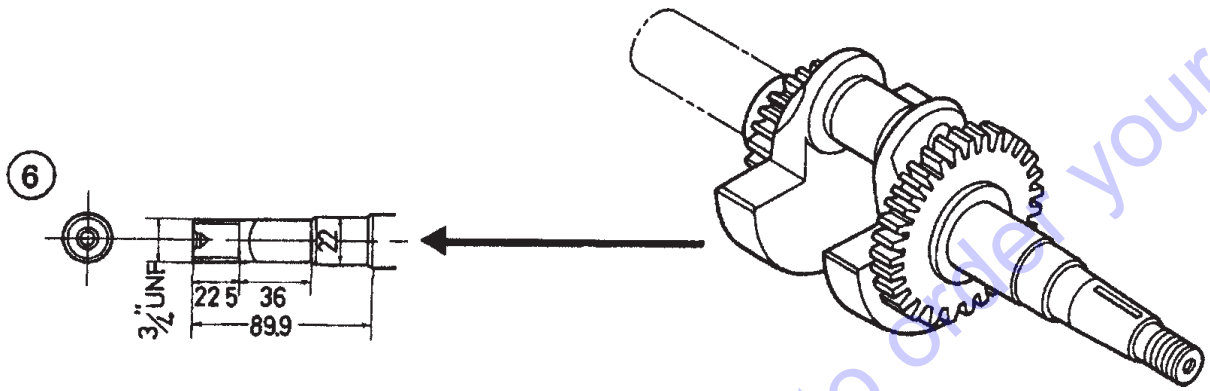
CRANKCASE COVER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11300ZE0641	COVER ASSY., CRANKCASE(U- TYPE)	1	INCLUDES ITEMS W/%
2	11381ZH7800	GASKET, CASE COVER	1	
3	15600ZE1003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEM W/+
4	15600ZG4003	CAP ASSEMBLY, OIL FILLER	1	INCLUDES ITEM W/#
7+#	15625ZE1003	GASKET, OIL FILLER CAP	1	
9	90015883000	BOLT, FLANGE 6X28	7	
10%	91001878003	BEARING, RADIAL BALL	1	
11✖%	91203ZE0003	OIL SEAL, 22X41X6	1	
11◊%	91203ZE0013	OIL SEAL, 22X41X6	1	
12	9430108140	PIN A, DOWEL 8X14	2	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

CRANKSHAFT ASSY.

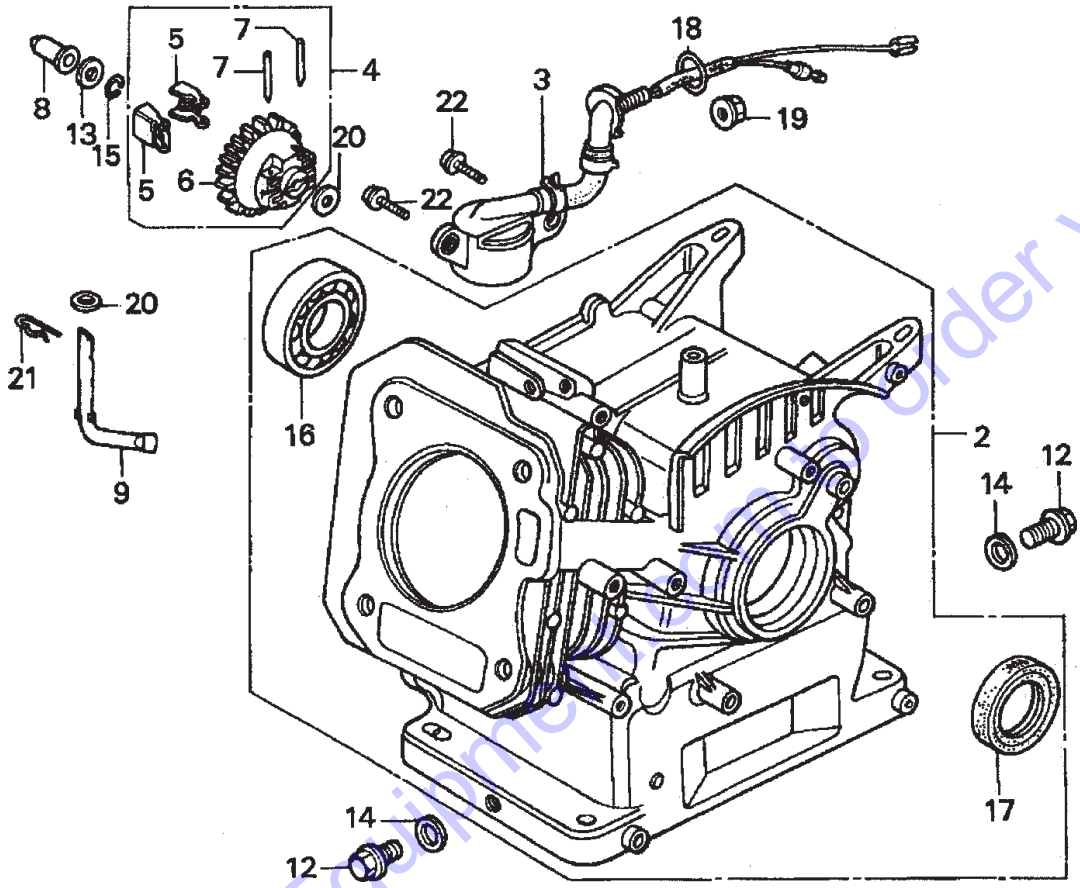


CRANKSHAFT ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
6	13310ZE0650	CRANKSHAFT, P-TYPE	1	

HONDA GX120K1PX2/GX120U1PX2 ENGINE— CYLINDER BARREL ASSY.

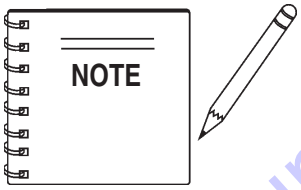
CYLINDER BARREL ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

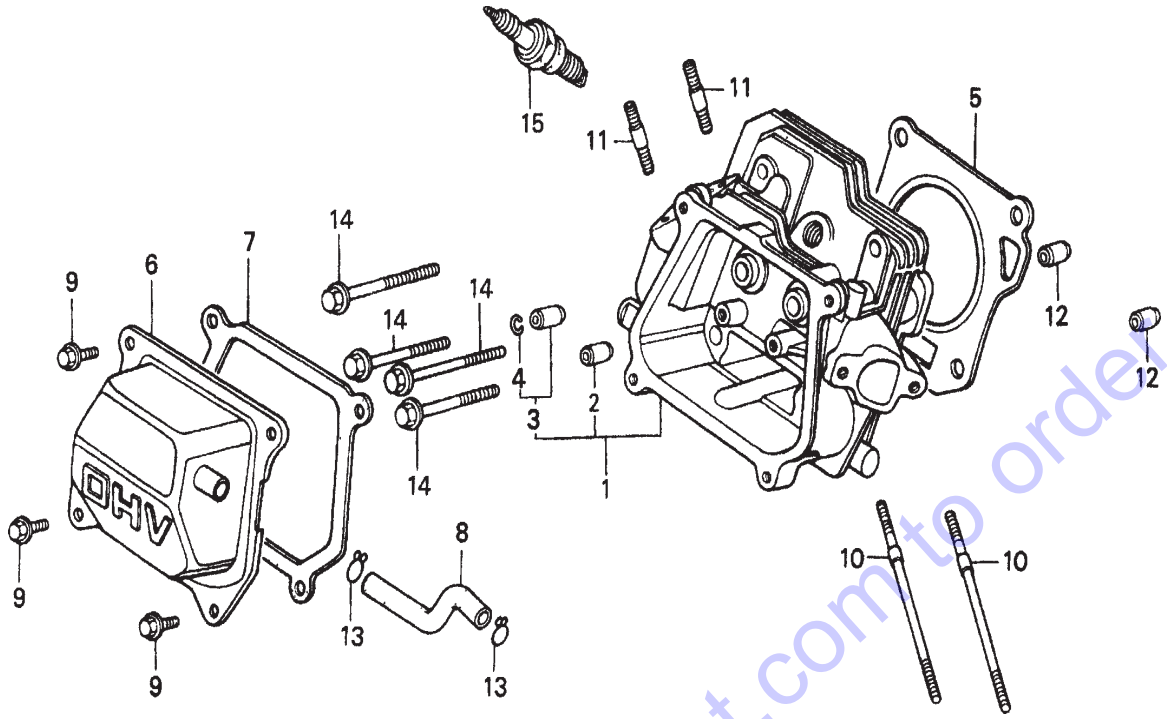
NO.	PART NO.	PART NAME	QTY.	REMARKS
2✠	12000ZH7405	CYLINDER BARREL ASSEMBLY	1	INCLUDES ITEMS W/+
2◊	12000ZH7425	CYLINDER BARREL ASSEMBLY	1	INCLUDES ITEMS W/#
3✠	15510ZE1023	SWITCH ASSEMBLY, OIL LEVEL	1	S/N 2867760~3327460
3✠	15510ZE1033	SWITCH ASSEMBLY, OIL LEVEL	1	S/N 3327461 AND ABOVE
3◊	15510ZE1033	SWITCH ASSEMBLY, OIL LEVEL	1	
4	16510ZE1000	GOVERNOR ASSEMBLLY	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	
12	90131ZE1000	BOLT, DRAIN PLUG	2	
13	90451ZE1000	WASHER, THRUST 6MM	1	
14	90601ZE1000	WASHER, DRAIN PLUG 10.2MM	2	
15	90602ZE1000?	CLIP, GOVERNOR HOLDER	1	
16+#	91001878003	BEARING, RADIAL BALL 62/22	1	
17+#	91202ZE6013	OIL SEAL 22X35X6	1	
18	91353671003	O- RING 13.5X1.5 (14 MM)	1	
19	9405010000	NUT, FLANGE 10MM	1	
20	9410106800	WASHER, PLAIN 6MM	2	
21	9425108000	PIN, LOCK 8MM	1	
20	957010601200	BOLT, FLANGE 6X12	2	



✠ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

HONDA GX120K1PX2/GX120U1PX2 ENGINE— CYLINDER HEAD ASSY.

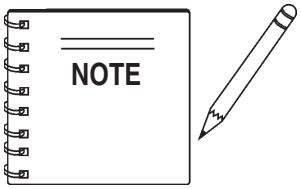
CYLINDER HEAD ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— CYLINDER HEAD ASSY.

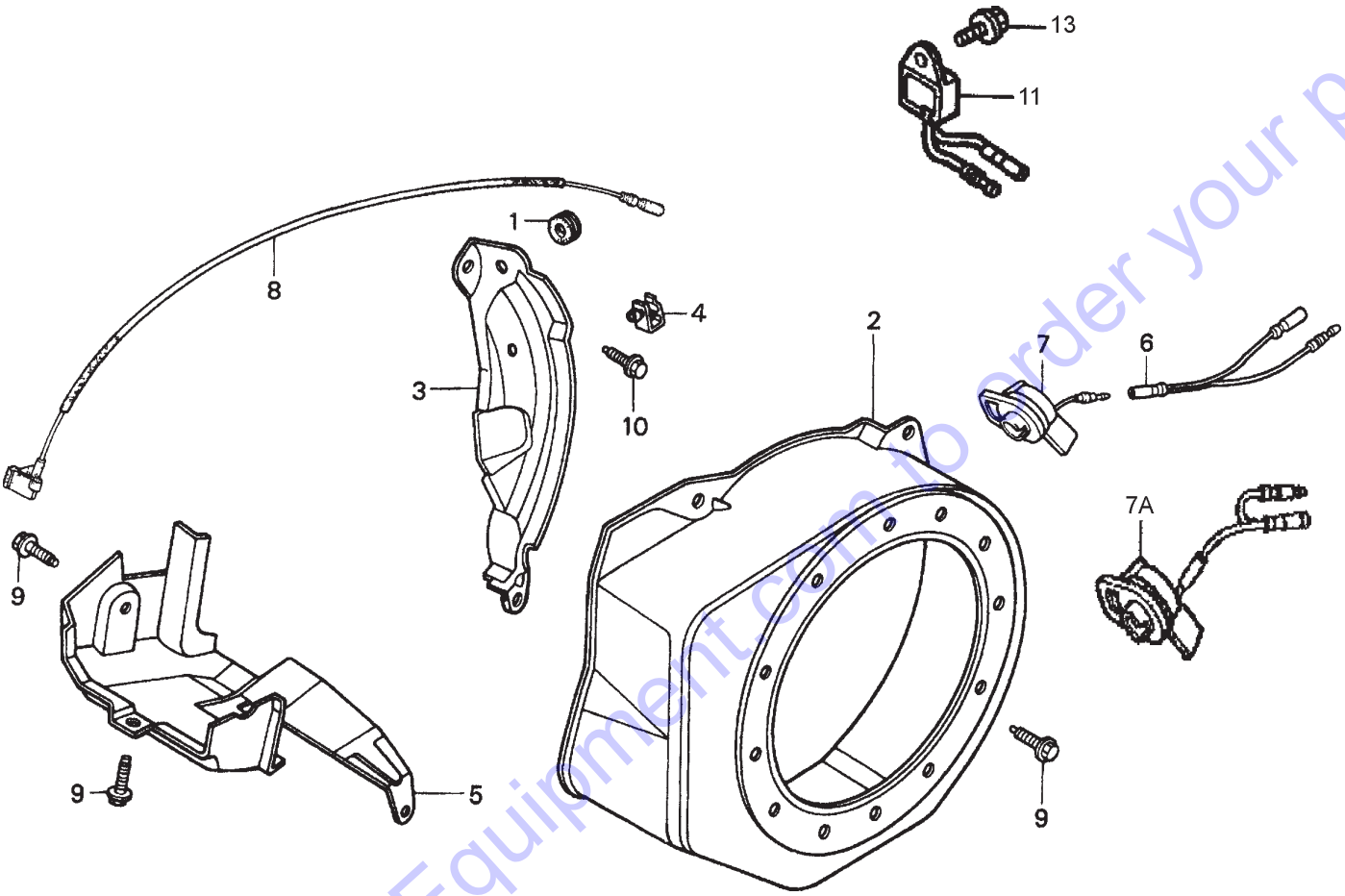
CYLINDER HEAD ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1✖	12210ZH7000	CYLINDER HEAD	1	INCLUDES ITEMS W/%
1◊	12210ZH7405	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✖	12310ZE1000	COVER, HEAD	1	S/N 3909674 AND BELOW
6✖	12310ZE1020	COVER, HEAD	1	S/N 3909675 AND ABOVE
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	9807955846	SPARK PLUG BPR5ES (NGK), OPTIONAL	1	
15	9807956846	SPARK PLUG BPR5ES (NGK)	1	
15◊	9807955855	PLUG, SPARK(W16EPR-U) (DENSO)	1	
15◊	9807956855	PLUG, SPARK(W20 EPR-U) (DENSO)	1	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

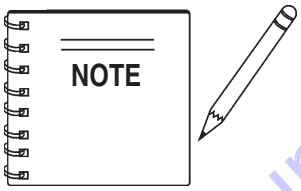
FAN COVER ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— FAN COVER ASSY.

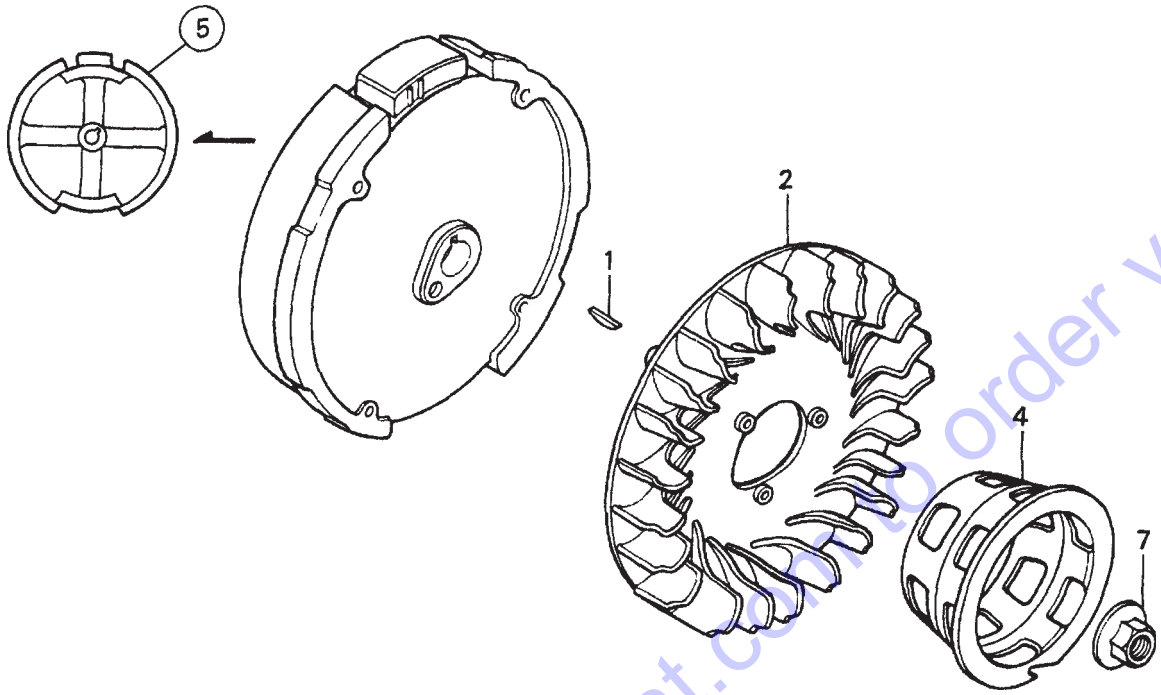
RECOIL STARTER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	1134371300	GROMET, ADJUSTING CABLE	1	
2	19610ZE0000ZE	COVER, FAN *NH1* BLACK	1	
3✖	19612ZH7810	PLATE, SIDE(OIL ALERT)	1	S/N 3084882 AND BELOW
3✖	19612ZH7811	PLATE, SIDE(OIL ALERT)	1	S/N 3084883~3182937
3✖	19612ZH7812	PLATE, SIDE(OIL ALERT)	1	S/N 3182938~3257376
3✖	19611ZH7810	PLATE, SIDE(OIL ALERT)	1	S/N 3257377 AND ABOVE
3◊	19611ZH7810	PLATE, SIDE(OIL ALERT)	1	
4✖	19613ZE1010	CLAMP, CORD	1	S/N 2867760 AND BELOW
4✖	90601ZH7013	CLIP, HARNESS	1	S/N 2867761 AND ABOVE
4◊	90601ZH7013	CLIP, HARNESS	1	
5	19630ZH7000	SHROUD	1	
6✖	32197ZH8003	SUB, HARNESS	1	
7✖	36100ZE1015	SWITCH ASSEMBLY, ENGINE STOP	1	S/N 2867760 AND BELOW
7✖	36100ZH7003	SWITCH ASSEMBLY, ENGINE STOP	1	S/N 2867761 AND ABOVE
7A◊	36100ZF6P81	SWITCH ASSEMBLY, ENGINE STOP	1	
8	36101ZE1010	WIRE, STOP SWITCH 370MM	1	
9	90013883000	BOLT, FLANG 6 X 12 (CT200)	6	
10	90022888010	BOLT, FLANG 6 X 12 (CT200)	1	
11	34150ZH7003	ALERT UNIT, OIL	1	S/N 3259629 AND ABOVE
13	957010600800	BOLT, FLANGE 6X8	3	S/N 3259269 AND ABOVE



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

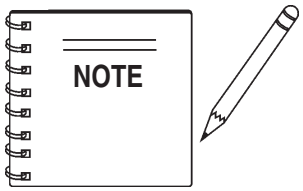
FLYWHEEL ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— FLYWHEEL ASSY.

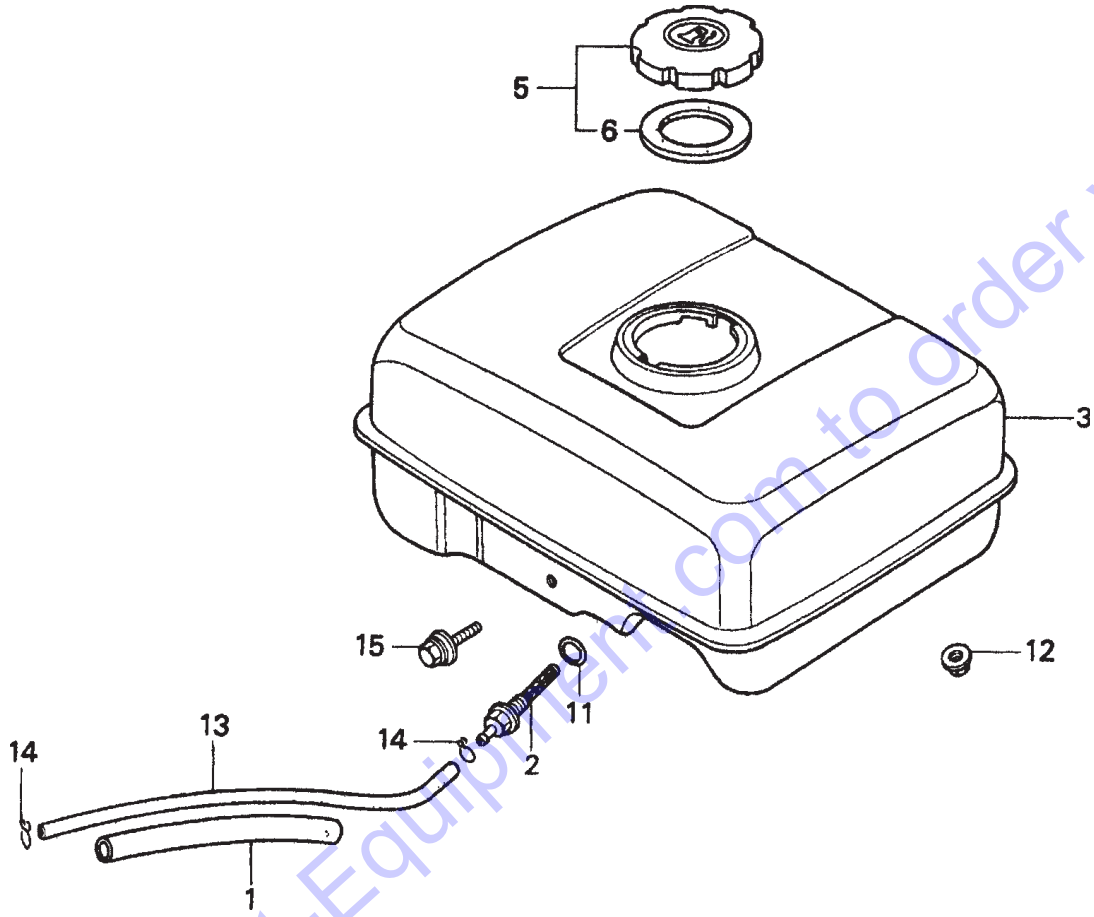
FLYWHEEL ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	13331357000	KEY, SPECIAL WOODRUFF 25X18	1	
2	19511ZE0000	FAN, COOLING	1	
4✖	28451ZH8003	PULLEY, STARTER	1	
4◊	28451ZH7801	PULLEY, STARTER	1	
5	31100ZE0010	FLYWHEEL	1	
7	90201878003	NUT, SPECIAL 14MM	1	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

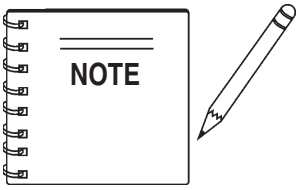
FUEL TANK ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— FUEL TANK ASSY.

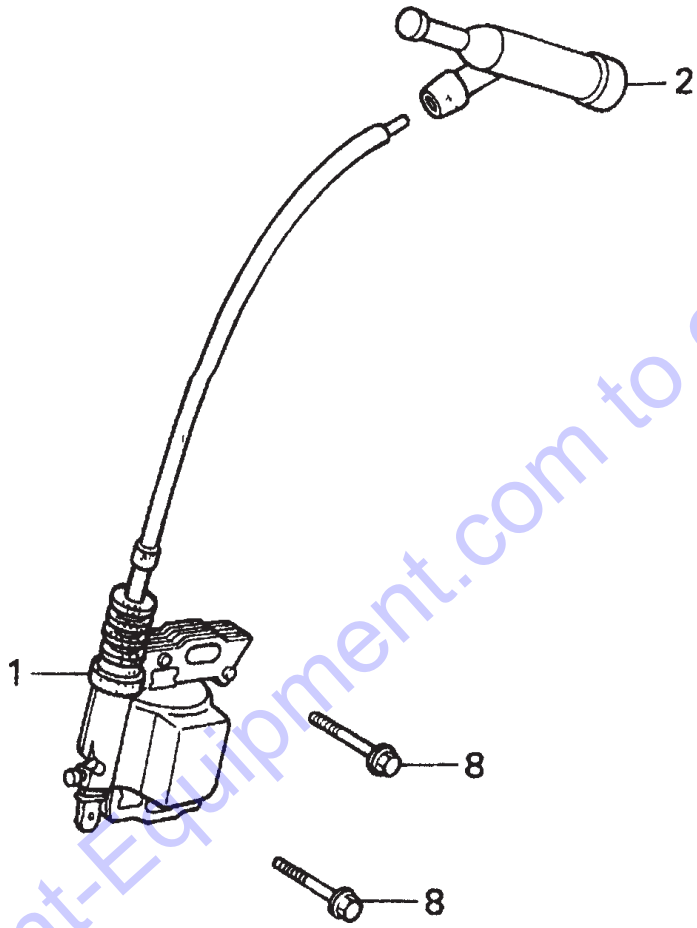
FUEL TANK ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	16854ZH8000	RUBBER, SUPPORTER 107MM	1	
2	16955ZE1000	JOINT, FUEL TANK	1	
3	17510ZE0020ZD	TANK, FUEL *NH1* (BLACK)	1	
4	17620Z0T305	CAP COMP., FUEL TANK		
5✖	17620ZH7023	CAP, FUEL FILTER	1	INCLUDES ITEMS W/#
5◊	17620Z0T305	CAP, FUEL FILTER	1	INCLUDES ITEMS W/%
6✖#	17631ZH7003	GASKET, FUEL FILLER CAP	1	
6◊%	17631Z0T812	GASKET, FUEL FILLER CAP	1	
11✖	91353671003	O- RING 13.5X1.5 (ARAI)	1	
11◊	91353671004	O- RING 14MM (NOK)	1	
12	9405006000	NUT, FLANGE 6MM	2	
13✖	950014500360M	BULK HOSE, FUEL (4.5X3000) (4.5X140)	1	
13◊	950014514040	BULK HOSE, FUEL (4.5X3000) (4.5X140)	1	
14	9500202080	CLIP, TUBE (B8)	2	
15✖	957010602500	BOLT, FLANGE 6X25	1	S/N 3890882 AND BELOW
15✖	90004ZH7003	BOLT, FLANGE 6X29	1	S/N 3890883 AND ABOVE
15◊	90004ZH7003	BOLT, FLANGE 6X29	1	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

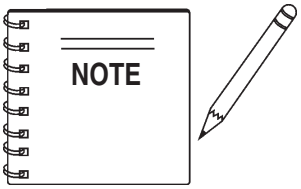
IGNITION COIL ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— IGNITION COIL ASSY.

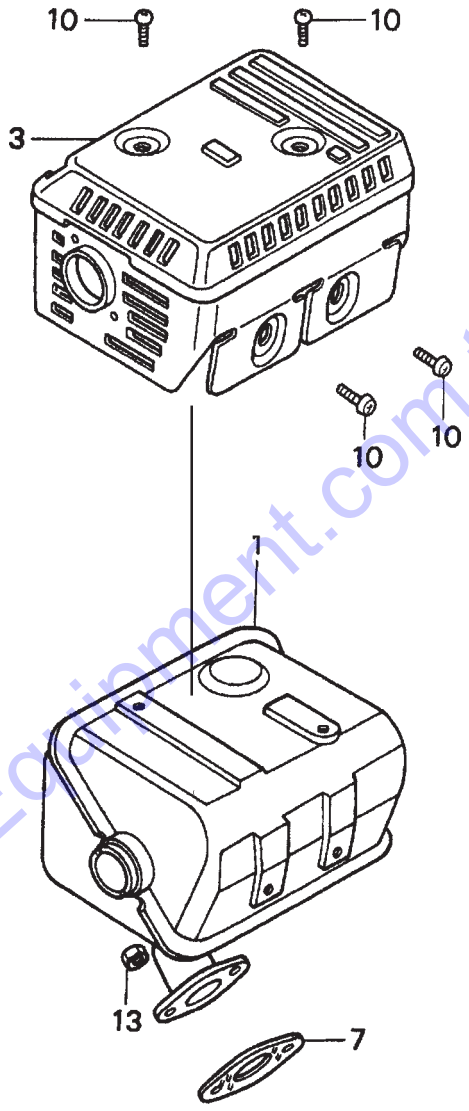
IGNITION COIL ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1✠	30500ZE1033	COIL ASSEMBLY, IGNITION	1	
1◊	30500ZE1063	COIL ASSEMBLY, IGNITION	1	
2	30700ZE1013	CAP ASSEMBLY, NOISE SUPPRESSOR	1	
8	90121952000	BOLT, FLANGE 6X25	2	



✠ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

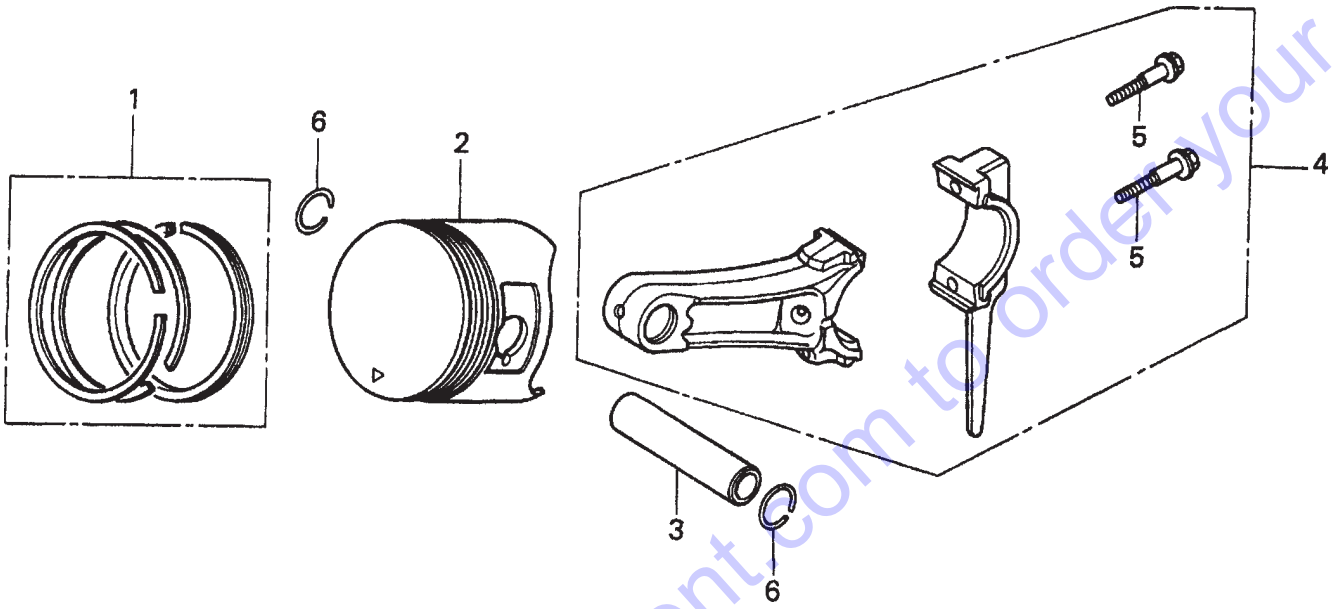
MUFFLER ASSY.



MUFFLER ASSY.

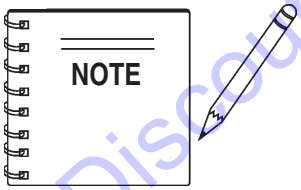
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	18310ZF1000	MUFFLER (STD)	1	
3	18320ZF1H01	PROTECTOR, MUFFLER (STD BLACK)	1	
7	18381ZH8800	GASKET, MUFFLER	1	
10	90050ZE1000	SCREW, TAPPING 5X8	4	
13	94001080000S	NUT, HEX. 8MM	2	

PISTON ASSY.



PISTON ASSY.

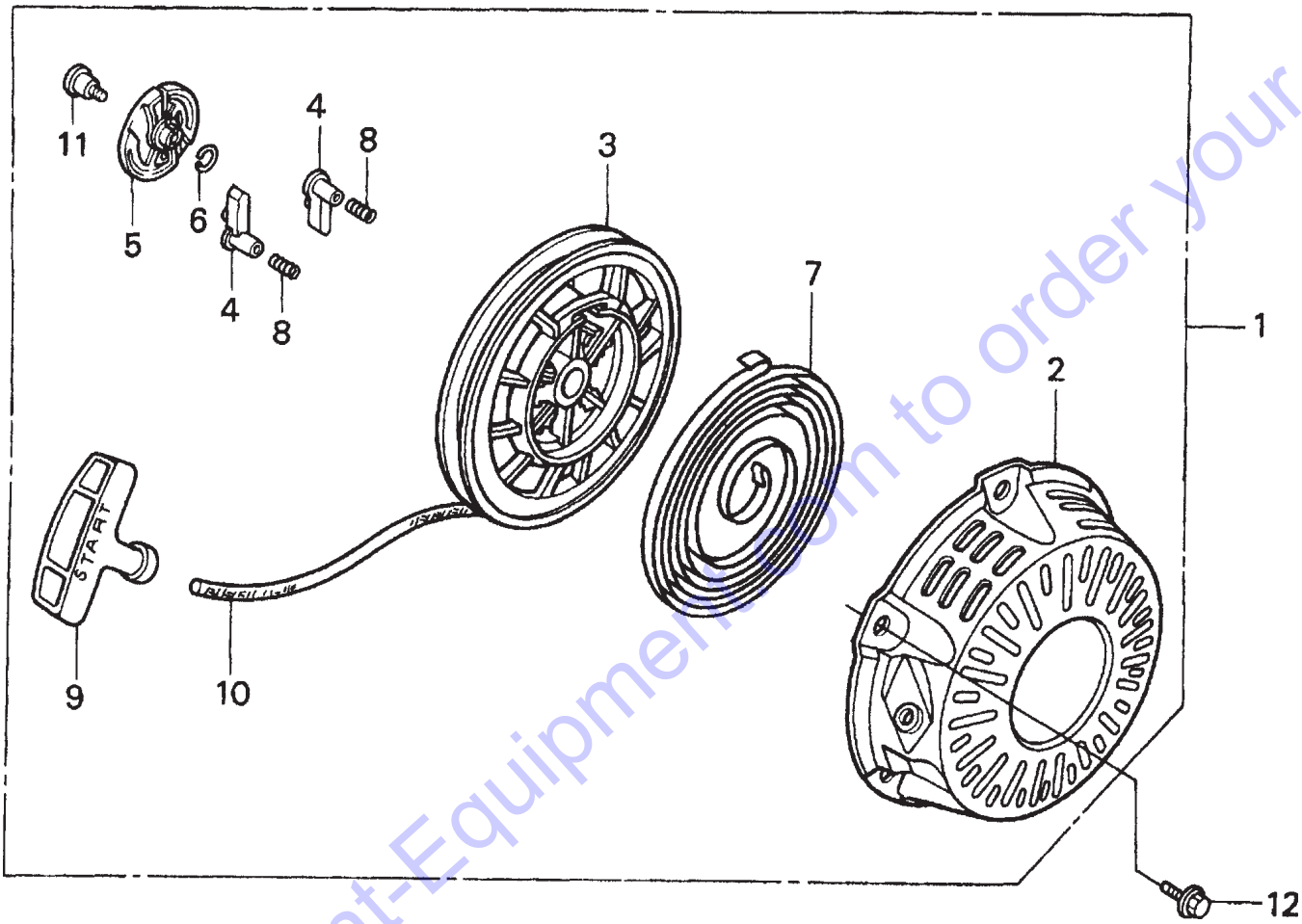
NO.	PART NO.	PART NAME	QTY.	REMARKS
1✖	13010ZE6013	RING SET, PISTON (STANDARD)	1	S/N 3284616 AND BELOW
1✖	13010ZK7V01	RING SET, PISTON (STANDARD)	1	S/N 3284617 AND ABOVE
1✖	13011ZE6013	RING SET, PISTON (OS 0.25)	1	S/N 3284616 AND BELOW
1✖	13011ZK7V01	RING SET, PISTON (OS 0.25)	1	S/N 3284617 AND ABOVE
1✖	13012ZE6013	RING SET, PISTON (OS 0.50)	1	S/N 3284616 AND BELOW
1✖	13012ZK7V01	RING SET, PISTON (OS 0.50)	1	S/N 3284617 AND ABOVE
1✖	13013ZE6013	RING SET, PISTON (0.75)	1	S/N 3284616 AND BELOW
1✖	13013ZK7V01	RING SET, PISTON (0.75)	1	S/N 3284617 AND ABOVE
1◊	13010ZE6013	RING SET, PISTON (STANDARD)	1	
1◊	13010ZK7V01	RING SET, PISTON (STANDARD)	1	
1◊	13011ZE6013	RING SET, PISTON (0.25)	1	
1◊	13011ZK7V01	RING SET, PISTON (0.25)	1	
1◊	13012ZE6013	RING SET, PISTON (0.50)	1	
1◊	13012ZK7V01	RING SET, PISTON (0.50)	1	
1◊	13013ZE6013	RING SET, PISTON (0.75)	1	
1◊	13013ZK7V01	RING SET, PISTON (0.75)	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 ASSEMBLY, CONNECTING (UNDER SIZE)	1	INCLUDES ITEM W/#
4	13200ZE0000	ROD ASSEMBLY, CONNECTING	1	INCLUDES ITEM W/#
5#	90001ZE1000	BOLT, CONNECTING ROD	2	
6	90551ZE0000	CLIP, PISTON PIN 13MM	2	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

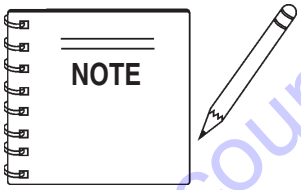
HONDA GX120K1PX2/GX120U1PX2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



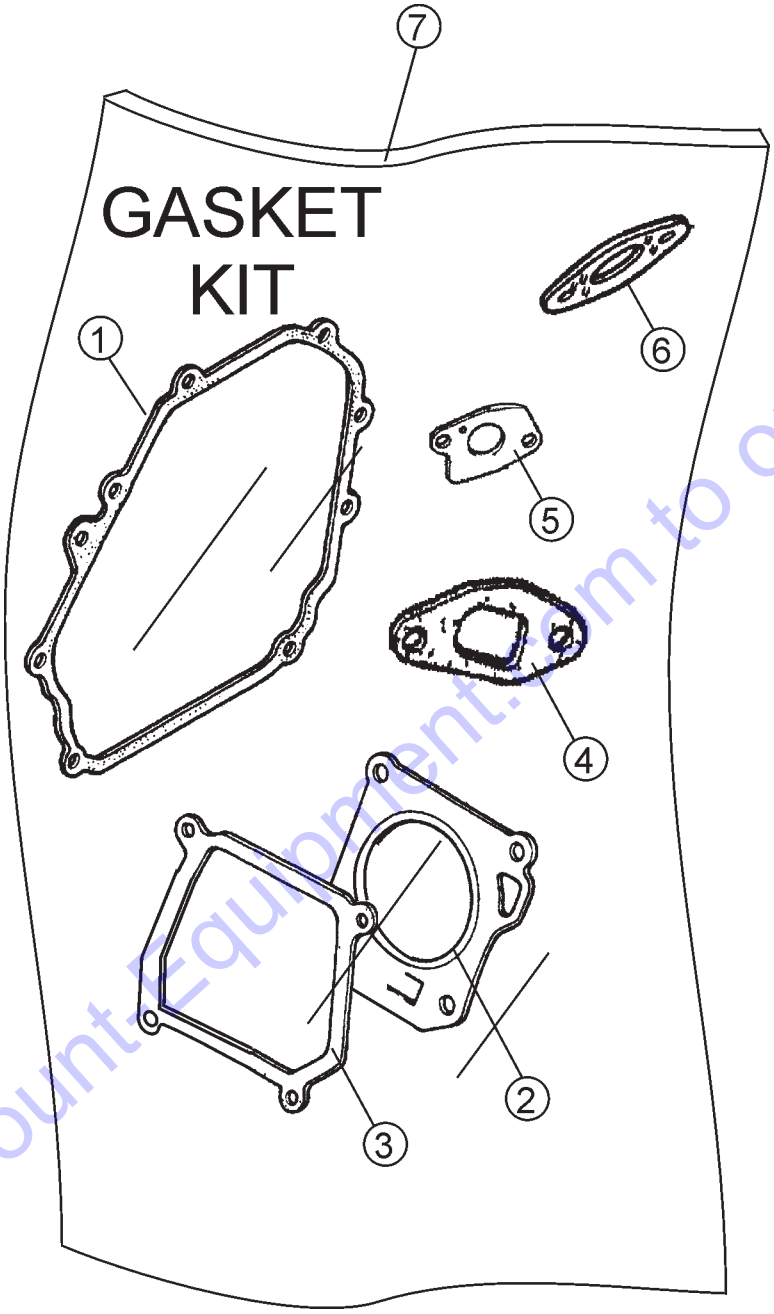
RECOIL STARTER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1✖	28400ZH8013ZB	STARTER ASSY., RECOIL *NH1* (BLACK)	1	INCLUDES ITEMS W/%
1◊	28400ZH8023ZB	STARTER ASSY., RECOIL *NH1* (BLACK)	1	INCLUDES ITEMS W/#
2%#	28410ZH8003ZB	CASE, RECOIL STARTER	1	
3✖%	28420ZH8013	REEL, RECOIL STARTER	1	
3◊#	28421ZH8801	REEL, RECOIL STARTER	1	
4✖%	28422ZH8013	RATCHET, STARTER	2	
4◊#	28422ZH8801	RATCHET, STARTER	2	
5✖%	28433ZH8003	GUIDE, RATCHET	1	
5◊#	28431ZH8801	GUIDE, RATCHET	1	
6✖%	28441ZH8003	SPRING, FRICTION	1	
6◊#	28433ZH8801	SPRING, FRICTION	1	
7✖%	28442ZH8003	SPRING, RECOIL STARTER	1	
7◊#	28441ZH8801	SPRING, RECOIL STARTER	1	
8✖%	28443ZH8003	SPRING, RETURN	2	
8◊#	28442ZH8003	SPRING, RETURN	2	
9✖%	28461ZH8003	KNOB, RECOIL STARTER	1	
9◊#	28443ZH8801	KNOB, RECOIL STARTER	1	
10✖%	28462ZH8003	ROPE, RECOIL STARTER	1	
10◊#	28461ZH8003	ROPE, RECOIL STARTER	1	
11✖%	90003ZH8003	SCREW, SETTING	1	
11◊#	28462ZH8003	SCREW, SETTING	1	
12	90008ZE2003	BOLT, FLANGE 6X10	3	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

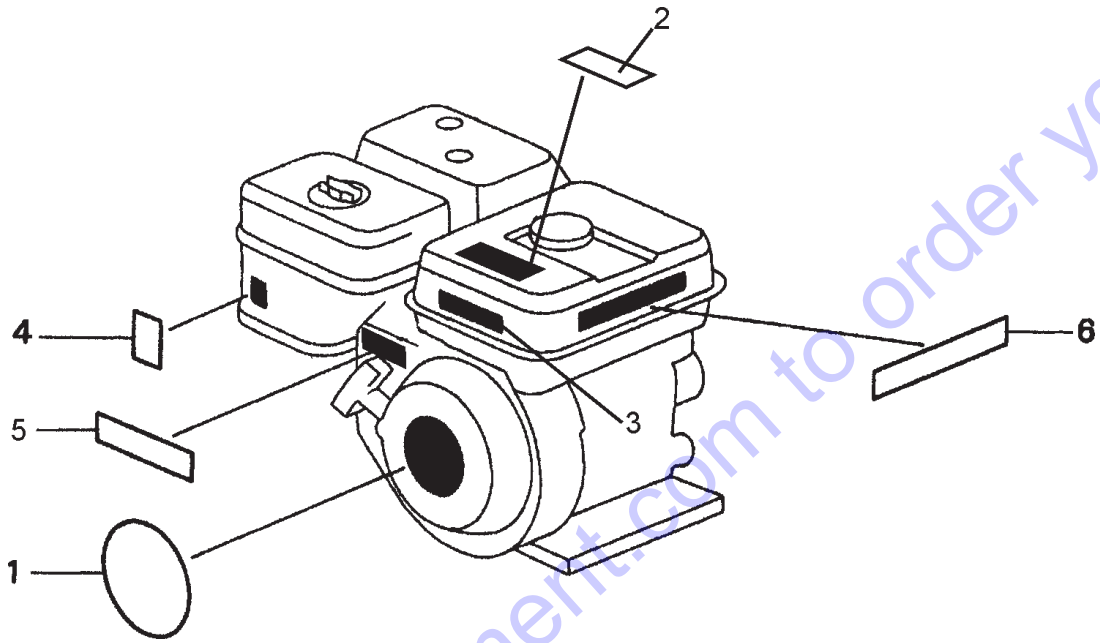
GASKET ASSY.



GASKET ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1 #	11381ZH7800	GASKET, CASE COVER	1	
2 #	12251ZH7800	GASKET, CYLINDER HEAD	1	
3 #	12391ZE1000	GASKET, CYLINDER HEAD COVER	1	
4 #	16212ZH7800	GASKET, INSULATOR	1	
5 #	16221ZH8801	GASKET, CARBURETOR	1	
6 #	18381ZH8800	GASKET, MUFFLER	1	
7	06111ZH7405	GASKET KIT	1	INCLUDES ITEM W/*

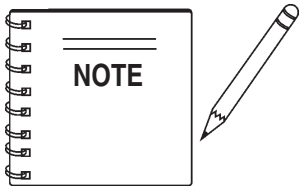
LABELS ASSY.



HONDA GX120K1PX2/GX120U1PX2 ENGINE— LABELS ASSY.

LABELS ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1✖	87521ZH7010	EMBLEM, INTERNAL	1	S/N 3841370 AND BELOW
1✖	87521ZH7020	EMBLEM	1	S/N 3841371 AND ABOVE
1◊	87521ZH7030	EMBLEM	1	
2◊	87516ZH7000	MARK OPERATOR CAUTION (ENGLISH)	1	
3	87522ZH9000	LABEL, CAUTION	1	
4✖	87528ZE1810	MARK, CHOKE	1	
4◊	87528ZH7000	MARK, CHOKE (GRAY)	1	
5◊	87532ZH7000	MARK, THROTTLE INDICATION	1	
6✖	87532ZH8810	MARK, OIL ALERT (ENGLISH)	1	



✖ GX120K1PX2: Model QP-204H S/N 204H-19761 AND BELOW
◊ GX120U1PX2: Model QP-204H S/N 204H-19762 AND ABOVE

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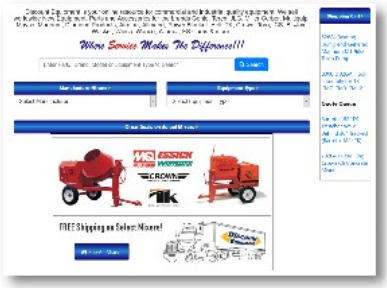

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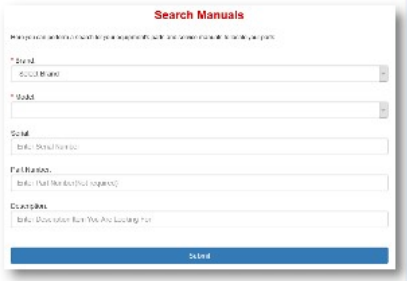

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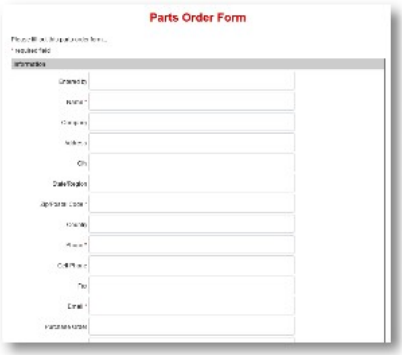

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