OPERATION AND PARTS MANUAL



Mikasa SERIES MODEL MTX60HD TAMPING RAMMER (HONDA GX100UKRBF GASOLINE ENGINE)

Revision #2 (07/05/16)



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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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CALIFORNIA — Proposition 65 Warning

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

TABLE OF CONTENTS

MTX60HD Rammer	Honda GX100UKRBF Engine
Proposition 65 Warning2	Cylinder Barrel Assembly40-4
Table Of Contents4	Crankcase Cover Assembly42-43
Parts Ordering Procedures5	Crankshaft Assembly44-45
Safety Information6-9	Piston/ Conn. Rod Assembly46-47
Specifications	Camshaft Assembly48-49
Noise and Vibration Emissions11	Recoil Starter Assembly50-5
General Information	Fan Cover Assembly52-53
Components	Carburetor Assembly (S/N T-3423 and Below) 54-55
Basic Engine14	Carburetor Assembly (S/N T-3424 and Above) 56-57
Inspection	Air Cleaner Assembly58-59
Operation16-17	Muffler Assembly
Maintenance	Flywheel Ignition Assembly 62-63
Troubleshooting	Control Assembly
Explanation Of Code In Remarks Column 22	Labels Assembly66-67
Suggested Spare Parts	
Component Drawings	Terms And Conditions Of Sale — Parts 68
Nameplates And Decals24-25	NOTION
Crankcase And Engine Assembly26-29	NOTICE
Guide Cylinder Assembly 30-31	Specifications and part numbers are subject to change
Foot Assembly32-33	without notice.
Fuel Tank And Handle Assembly34-35	
Combination Lever Assembly 36-37	

SAFETY INFORMATION

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

SAFETY MESSAGES

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

SAFETY SYMBOLS

DANGER

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

WARNING

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

CAUTION

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

NOTICE

Addresses practices not related to personal injury.

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

Symbol	Safety Hazard Lethal exhaust gas hazards		
	Explosive fuel hazards		
alle Miller and the	Burn hazards		
	Respiratory hazards		
OFF	Accidental starting hazards		
	Eye and hearing hazards		

SAFETY INFORMATION

GENERAL SAFETY

CAUTION

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











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



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







- ALWAYS check the equipment for loosened threads or bolts before starting.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.

NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- NEVER use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- ALWAYS know the location of the nearest fire extinguisher.



■ ALWAYS know the location of the nearest first aid kit.



■ ALWAYS know the location of the nearest phone or keep a phone on the job site. Also, know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.









RAMMER SAFETY

DANGER

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



WARNING

- NEVER disconnect any emergency or safety devices. These devices are intended for operator safety. Disconnection of these devices can cause severe injury. bodily harm or even death. Disconnection of any of these devices will void all warranties.
- **DO NOT** use this machine on ground that is harder than the machine can handle, or for driving pilings or tamping rock beds. Furthermore, use of the machine on sloping ground, such as the side of an embankment, may make the machine unstable and can cause an accident. It can also result in premature machine wear due to uneven loads on the machine.

Use the machine with confidence for tamping earth and sand, soil, gravel, and asphalt. DO NOT use the machine for other types of jobs.

CAUTION

■ NEVER lubricate components or attempt service on a running machine.

NOTICE

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

SAFETY INFORMATION

ENGINE SAFETY

DANGER

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



WARNING

- DO NOT place hands or fingers inside engine compartment when engine is running.
- NEVER operate the engine with heat shields or guards removed.
- DO NOT remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the rammer.



CAUTION

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



NOTICE

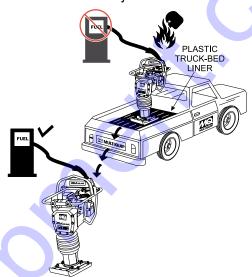
- NEVER run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.
- NEVER tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable.



FUEL SAFETY

DANGER

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



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



TRANSPORTING SAFETY

CAUTION

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

NOTICE

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

ENVIRONMENTAL SAFETY

NOTICE

■ Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.



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

Table 1. Rammer Specifications			
Overall Height	38.8 in. (985 mm)		
Overall Width	13.8 in. (350 mm)		
Over Length	28.1 in. (713 mm)		
Shoe Size (W x L)	10.4 x 13.4 in. (265 x 340 mm)		
Fuel Tank Capacity	2.7 qt. (2.5 liters)		
Lubrication Oil Capacity	0.69 qt. (0.65 liter)		
No. of Impacts Per Second	644-695 (10.7 - 11.6 Hz)		
Impact Force	3,060 lbf (13.6 kN)		
Impact Plate Stroke	2 - 3.2 in. (50 - 80 mm)		
Operating Weight	141 lbs. (64 kg)		

Table 2. Engine Specifications				
Model	Honda GX100UKRBF Engine			
Туре	Air-Cooled 4 Stroke, Overhead camshaft, single cylinder gasoline engine			
Piston Displacement	6.0 cu.in. (98 cc)			
Max. Output	3.0 hp/3,600 rpm (2.2 KW)			
Max. Governed Speed, No Load	3,800 - 4,100 rpm			
Cooling System	Air-Cooled			
Engine Oil Capacity	0.3 qt. (0.28 liters)			
Fuel	Unleaded gasoline			
Lubricant for Engine	Automobile Oil; Class SE or higher			
Starting System	Recoil Starter			
Spark Plug Type	NGK CR5HSB			

NOISE AND VIBRATION EMISSIONS

Table 3. Noise and Vibrat	ion Emissions
Measured Sound Power Level in dB(A)	103
Guaranteed Sound Power Level in dB(A)	107
Guaranteed Sound Pressure Level at Operator Station in dB(A)	92
Hand-Arm Vibration in m/s ²	5.2

NOTES:

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

GENERAL INFORMATION

The Multiquip MTX60HD tamping rammer is a powerful compacting tool capable of applying a tremendous force in consecutive impacts to a soil surface. Its applications include soil compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

The impact force of the MTX60HD levels and uniformly compacts voids between soil particles to increase dry density.

Circular motion is converted to create impact force. The MTX60HD tamping rammer develops a powerful compacting force at the foot of the rammer. To maintain optimum performance, proper operation and service are essential.

The MTX60HD is equipped with an air cooled, four-cycle gasoline engine. Transmission of the power takes place by increasing the engine speed to engage the centrifugal clutch.

The MTX60HD uses an oil bath lubrication system. Always check the oil level through the oil level sight glass at the rear of the tamper foot.

Before starting the MTX60HD Tamping Rammer identify and understand the function of the controls.

CAUTION



Before starting operation check the lifting handle to:

- 1. Make sure that there is no damage on the bolts.
- 2. Make sure that there is no crack or breakage on handle.
- 3. Make sure that there is no fissure on the surface. If there is any abnormality or damage, replace with new one.

For operation:

This handle is to be used to lift up the shoe part of the machine with the body laid down on the ground or truck bed.

- 1. Use proper lifting techniques to avoid back injury. This handle is for manual lifting only.
- 2. Do not use this handle as a rammer lift point. Use the lifting point on the top of the machine.
- 3. Do not move the rammer with the lifting handle and the front rollers more than 16 feet (5 meters).

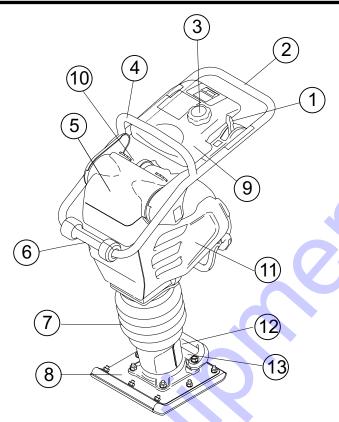


Figure 1. MTX60HD Rammer

Figure 1 shows the location of the controls and components for the MTX60HD Tamping Rammer. The functions of each control is described below:

- Combination (Throttle) Lever Used to adjust engine speed (rpm). Move lever forward (SLOW) to reduce engine speed, move lever back toward operator (FAST) to increase speed. Always operate the rammer at full speed (rpm).
- 2. **Handle** To operate rammer, *GRIP* handle assembly firmly on both sides.
- Fuel Tank Cap Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. DO NOT over fill.
- 4. **Hook** Used to lift rammer for transporting.
- 5. **Air Cleaner Cover** Protects the air cleaner which prevents dirt and other debris from entering the engine.
- 6. **Roller** Allows rammer to be moved around easily by rolling the unit.
- Bellows Reservoir for oil bath.

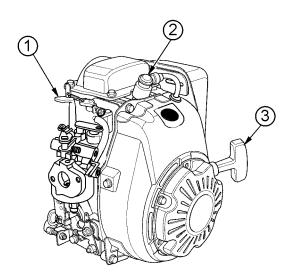
- 8. Foot Laminated wood with tempered steel plate for superior shock absorption.
- 9. **Fuel Tank** Holds the fuel for the unit (up to 3.2 quarts).
- 10. **Muffler** Reduces the noise of the engine when running.
- 11. **Engine** This unit uses a Honda GX100UKRBF gasoline engine.
- 12. **Oil Gauge (Sight Glass)** Indicates the level of oil in the oil bath reservoir.
- 13. **Drain Valve** Open this valve to remove oil from the bellows.

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.



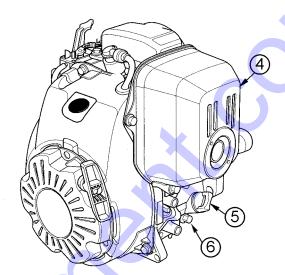


Figure 2. Honda GX100 Engine

The engine (Figure 2) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the engine manufacturer's manual for detailed operation and service information.

- Choke Lever Normally used in starting the engine in cold weather conditions. In cold weather, turn the choke lever to the fully closed position. In warm weather, set the choke lever halfway or completely open.
- 2. **Spark Plug** Provides spark to the ignition system. Set spark plug gap to 0.024 0.028 inch (0.6 0.7 mm). Clean spark plug once a week.
- Recoil Starter (pull rope) Manual-starting method.
 Pull the starter grip until resistance is felt, then pull briskly and smoothly.

NOTICE

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

- 4. **Muffler** Used to reduce noise and emissions.
- 5. **Dipstick/Oil Filler Cap** Remove this cap to determine if the engine oil is low. Add oil through this filler port as recommended in Table 3.
- 6. **Oil Drain Plug** Remove this plug to remove oil from the engine's crankcase.



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.

It is extremely important that this section be read carefully before attempting to operate the rammer. **DO NOT** use your rammer until this section is thoroughly understood.

CRANKCASE AND SPRING CYLINDER OIL BATH

This unit uses an oil bath lubrication system. Perform the following:

1. Check the oil level through the oil level sight glass (Figure 3) at the rear of the tamper foot.

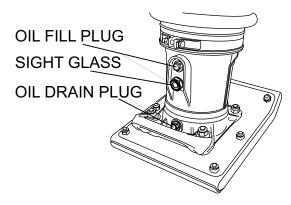


Figure 3. Foot Housing Sight Glass

NOTICE

The oil level should be kept at the half way point of the sight glass.

2. If oil is not visible, add 10W-30 SE, SF or higher grade motor oil into the oil fill plug opening (Figure 3). The bath contains approximately 0.69 qt. (0.65 liter)

ENGINE

1. Fill the fuel tank (Figure 4) with unleaded gasoline. At the same time, check the engine oil and make it a habit to replenish it often (Figure 5).

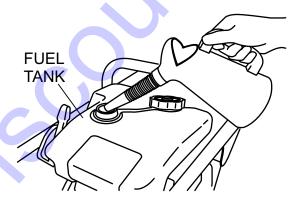


Figure 4. Fuel Tank

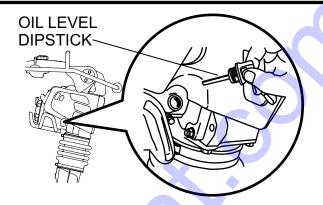


Figure 5. Engine Oil Dipstick

- 2. Low levels of oil may result in engine seizure due to high levels of consumption during operation.
- 3. Check the engine oil level and if the engine oil level is low, it should be refilled. Use the proper motor oil as suggested in the Table 4 below.

	Table 4. Motor Oil Grade			
	Season or Temperature	Grade of motor oil (higher than MS class)		
	Spring, Summer or Autumn +120° F to +15° F	SAE 30		
>	Winter +40° F to +15° F	SAE 30		
	Below +15° F	SAE 10W-30		

GENERAL INSPECTION

- 1. Check all nuts, bolts fasteners for tightness. Retighten as necessary.
- 2. Clean any dirt from the recoil starter and foot pedestal. Wipe the entire unit clean before operating.
- 3. Replace any missing or damaged Safety Operation decals.
- 4. Adjust height of handle. Adjust handle by loosening nuts and moving handle to suit operation. Retighten nuts.

CAUTION

Failure to understand the operation of the Tamping Rammer could result in severe damage to the unit or personal injury.

INITIAL STARTUP

When starting the MTX60HD Tamping Rammer perform the following:

1. Slide the throttle lever from the stop to the idle position (--) (Figure 6). This opens the fuel cock and the engine electrical circuit is turned on automatically.

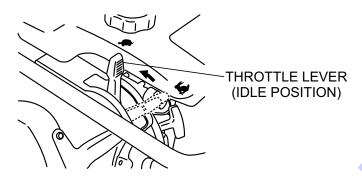


Figure 6. Throttle Lever (Idle Position)

2. Carburetor Purge System: Push the purge bulb 4 times or until you see fuel in the bulb (Figure 7).

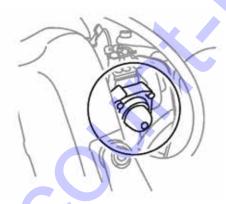


Figure 7. Purge Bulb

NOTICE

Pumping the purge bulb removes air from the fuel system. It does not pump fuel into the carburetor.

3. Place the choke lever to the closed position. When the weather is cold, close the choke all the way. When it is hot, or if the engine is hot, open the choke a little or leave it fully open.

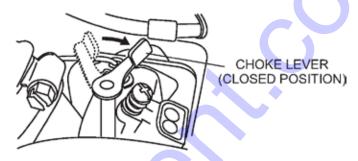


Figure 8. Choke Lever

4. Grip the starter rope handle (Figure 9) and pull it until you feel a slight resistance. Then pull sharply and quickly. Return the handle to the starter case before releasing.

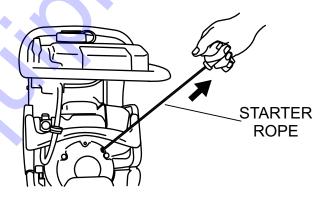


Figure 9. Recoil Starter

- 5. If engine fails to start, move the choke lever (Figure 8) to the half open position to avoid flooding.
- 6. Repeat steps 1 thru 5.
- 7. If the engine does not start after repeated attempts, check the spark plug for excess fuel. Clean and replace the spark plug as needed.

OPERATION

1. To start the rammer tamping action, move the throttle lever (Figure 10) quickly from IDLE to the START (*) position. DO NOT move the throttle lever slowly as this may cause damage to the clutch or spring.

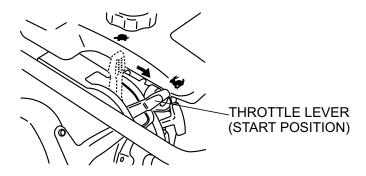


Figure 10. Throttle Lever (Start Position)



CAUTION

Make sure that the throttle lever is moved to the FULL **START** position. Operating the rammer at less than full speed can result in damage to the clutch springs or foot.

- 2. The MTX60HD tamping rammer is designed to run at 3,800 to 4,100 rpm. At optimum rpm the foot hits at the rate between 644-695 impacts per minute. Increasing throttle speed past factory set rpm does not increase impacts and may damage unit. The MTX60HD is designed to advance while tamping. For faster advance, pull back slightly on the handle so that rear of foot contacts soil first.
- 3. To stop the tamping action, move throttle lever quickly from **START** to **IDLE** position (Figure 6).

STOPPING THE ENGINE

1. Move throttle lever quickly from the START to IDLE position (Figure 6) and run the engine for three minutes at low speed. After the engine cools, move the throttle lever to the STOP position (Figure 11). The engine will stop and the fuel cock is automatically closed.



Figure 11. Throttle Lever (Stop Position)

If the engine does not stop due to a problem with the switch or the like, move the machine to a safe location and hold the throttle lever in the stop position. Let the machine run on idle and the machine will stop after a few minutes.

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.

EVERY 50 HOURS

■ Inspect in-line fuel filter (Part Number 16910Z4ES21, Figure 12) and replace if necessary.

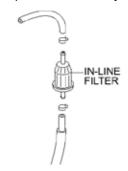


Figure 12. In-Line Fuel Filter

■ Remove and clean the spark plug, then adjust the spark gap to 0.024~0.028 inch (0.6~0.7 mm).

EVERY 80 TO 100 HOURS

■ Remove the air cleaner cover. Loosen and remove the 2 screws that hold the cover to the air cleaner assembly. If the primary element (Figure 13) is dirty, wash it with gasoline or kerosene. Then dip it in engine oil (SAE10W-30) and wring the element so that 25 to 30 cc of engine oil remains on the element.

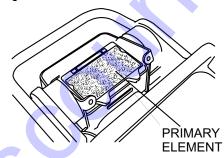


Figure 13. Air Cleaner Primary Element

EVERY 200 HOURS

Remove the oil drain plug on foot housing (Figure 14) and drain the oil. Refill with approximately 0.69 qt. (0.65) liter) of 10W-30 SE, SF or higher grade motor oil. Oil should be midway in sight glass. Break in oil should be changed after first 50 hours.



Figure 14. Oil Drain Plug

EVERY 6 MONTHS

- Clean the inside of the fuel tank with solvent.
- Inspect and clean fuel strainer (Figure 15). Replace strainer if necessary.

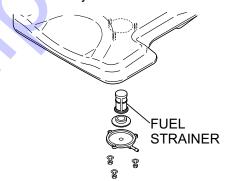


Figure 15. Fuel Strainer

EVERY 2 YEARS

■ Replace the fuel line every 2 years even if there is no visible damage.

LONG TERM STORAGE

- Slide the throttle lever to the **STOP** position.
- Drain any fuel including in the fuel hose.
- Replace lubrication oil and apply grease to lubrication points.
- Cover the air intake on the air cleaner and the exhaust outlet on the muffler.
- Store unit indoors covered with plastic sheet in moisture free and dust free location out of direct sunlight.

TROUBLESHOOTING

Troubleshooting (Engine)				
Symptom	Possible Problem	Solution		
, .	Combo lever in incorrect position?	Make sure combo lever is in start position.		
	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.		
	Fuel reaching carburetor?	Check fuel line.		
	Water in fuel tank?	Flush or replace fuel tank.		
Difficult to start, fuel is available, but no spark at	Fuel filter clogged?	Replace fuel filter.		
spark plug.	Stuck carburetor?	Check float mechanism.		
	Spark plug is red?	Check transistor ignition unit.		
	Spark plug is bluish white?	If insufficient compression, repair or replace engine. If injected air leaking, correct leak. If carburetor jets clogged, clean carburetor.		
	No spark present at tip of spark plug?	Check transistor ignition unit is broken, and replace defective unit. Check if voltage cord cracked or broken and replace. Check if spark plug if fouled and replace.		
	No oil?	Add oil as required.		
	ON/OFF switch is shorted?	Check switch wiring, replace switch.		
	Ignition coil defective?	Replace ignition coil.		
Difficult to start, fuel is available, and spark is present at the spark plug.	Improper spark gap, points dirty?	Set correct spark gap and clean points.		
prosent at the spant plag.	Condenser insulation worn or short circuiting?	Replace condenser.		
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.		
	Wrong fuel type?	Flush fuel system, replace with correct type of fuel.		
Difficult to start, fuel is available, spark is present and compression is normal.	Water or dust in fuel system?	Flush fuel system.		
present and compression is normal.	Air cleaner dirty?	Clean or replace air cleaner.		
	Choke open?	Close choke.		
	Suction/exhaust valve stuck or protruded?	Reseat valves.		
Difficult to start fuel is evallable smark in	Piston ring and/or cylinder worn?	Replace piston rings and/or piston.		
Difficult to start, fuel is available, spark is present and compression is low.	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 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.		
No fuel present at carburetor.	Fuel filter/lines clogged?	Replace fuel filter.		
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.		
	Air in fuel line?	Bleed fuel line.		

TROUBLESHOOTING

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

TROUBLESHOOTING

Troubleshooting (Rammer)			
Symptom	Possible Problem	Solution	
Engine runs but rammer jumps erratically or not at all.	Operating speed of throttle lever is incorrectly set?	Set throttle lever to correct position.	
	Oil in excess?	Drain excess oil. Bring to correct level.	
	Clutch slips?	Replace or adjust clutch.	
	Spring Failure?	Replace spiral spring.	
	Speed of engine improper?	Adjust engine speed to correct operating RPM setting.	
	Soil over-compacted?	Shut down machine and test soil.	

EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

NOTICE

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

SAMPLE PARTS LIST

<u>MARKS</u>
CLUDES ITEMS W/%
T SOLD SEPARATELY
2-45T ONLY
KE LOCALLY
N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

NOTICE

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break — Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"

"S/N XXXX AND ABOVE"

"S/N XXXX TO S/N XXX"

Specific Model Number Use — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"

"NOT USED ON XXXX"

"Make/Obtain Locally" — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

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

SUGGESTED SPARE PARTS

MTX60HD TAMPING RAMMER WITH HONDA GX100UKRBF ENGINE

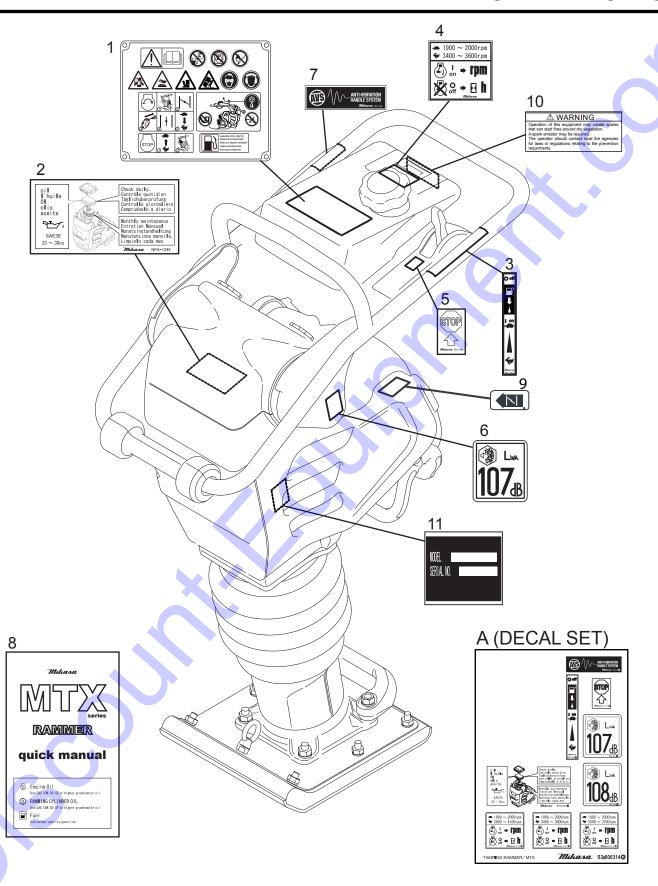
1 to 3 units

Qty.	P/N	Description
1	956100062	.THROTTLE WIRE
3	366010070	PRIMARY ELEMENT, AIR CLEANER
3	366010080	SECONDARY ELEMENT, AIR CLEANER
1	366350460	.CAP ASSY., FUEL TANK
2	16910Z4ES21	FILTER, IN-LINE FUEL
3	9805655777	.SPARK PLUG
1	954406010	.STRAINER, FUEL TANK
1	28462Z0DV03	ROPE, RECOIL STARTER
1	956200110	COMBINATION LEVER
1	366900170	.CUP AND PACKING SET
1	366348550	.CLUTCH ASSY

NOTICE

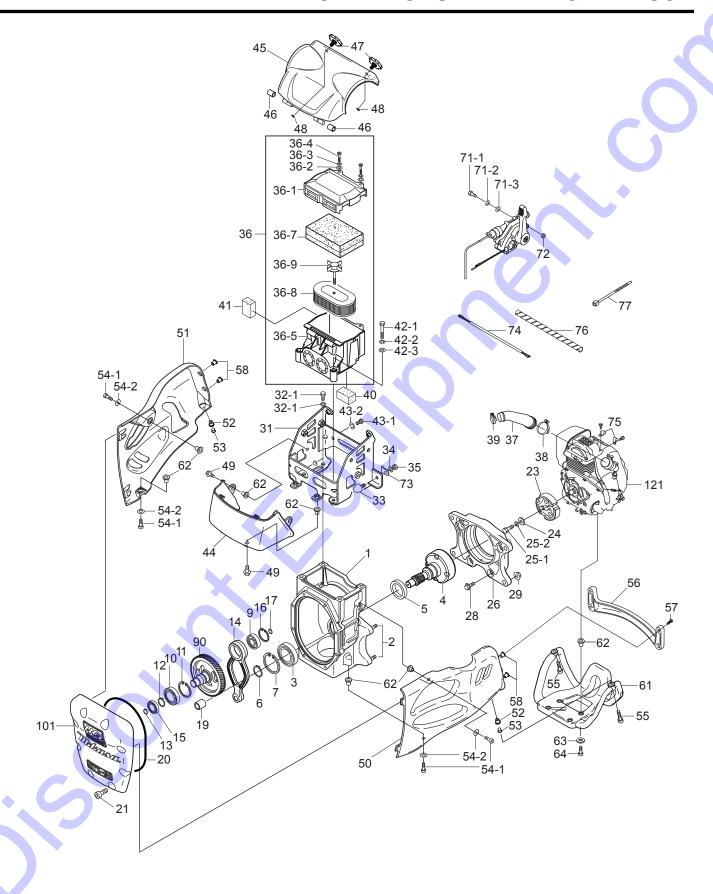
Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

NAMEPLATES AND DECALS

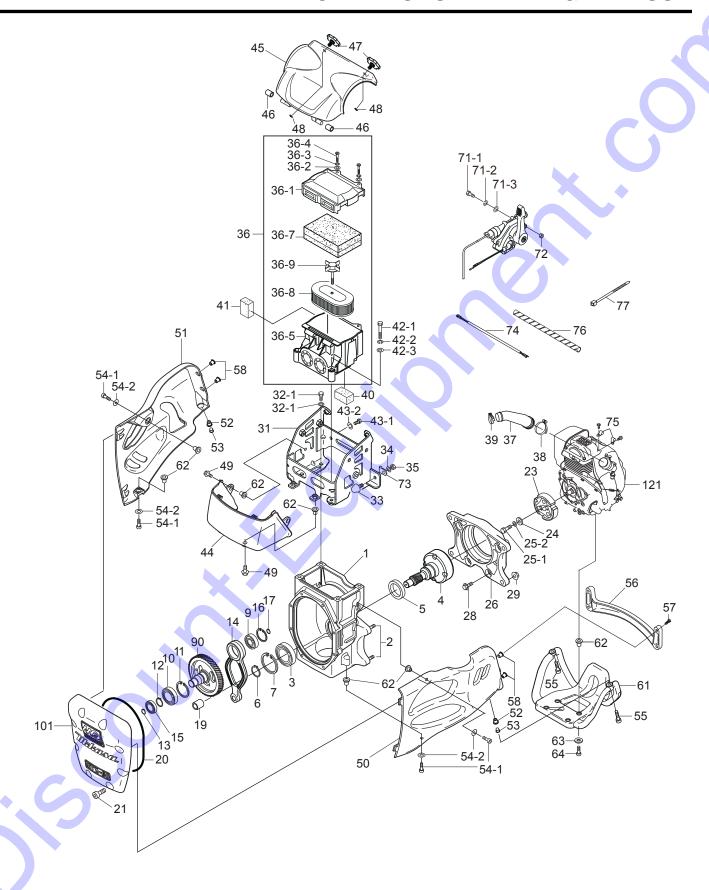


NAMEPLATES AND DECALS

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	920215440	OPERATION DECAL	1	
2#		DECAL, AIR CLEANER	1	
3#		DECAL, LEVER OPERATION	1	
4#		DECAL, MAX SPEED DECAL 4100	1	
5#		DECAL, MACHINE STOP	1	
6#		DECAL, EC NOISE REQ. Lwa 107dB	1	
7#		DECAL, ANTI-VIB HANDLE	1	
8	920212540	QUICK MANUAL	1	
9	0732004430	DECAL, CHOKE OPERATION	1	X
10	920214100	DECAL, E/G FIRE WARNING	1	
11		SERIAL PLATE NO	1	CONTACT MQ PARTS DEPT.
		-		W/ SERIAL NO.
Α	920900040	DECAL SET	1	INCLUDES ITEMS W/ #

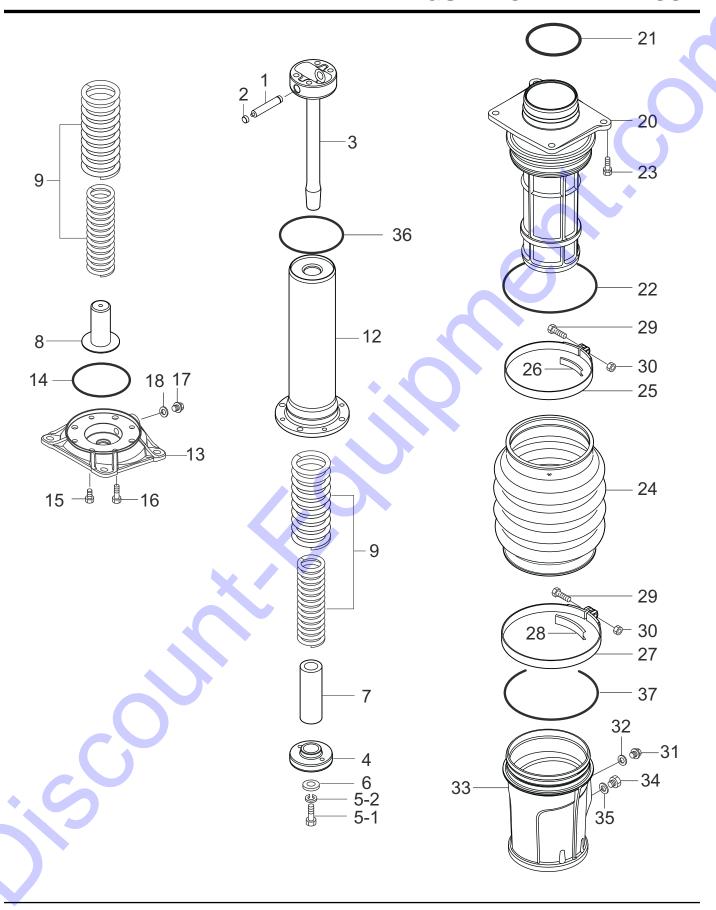


<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	368910010	CRANKCASE CP	<u>1</u>	INCLUDES ITEM W/ *
2*	009120204	STUD BOLT 10X50X21T/21S	4	
3	041006007	BEARING 6007Z	1	
4	368347410	DRUM, PINION	1	
5	060404010	OIL SEAL TC-40528	1	
6	080200350	STOP RING S-35	1	
7	080100620	STOP RING R-62	1	
9	042506203	BEARING 6203	1	
10	040006305	BEARING 6305	1	•
11	080100620	STOP RING R62	1	
12	080200170	STOP RING S-17	1	
13	JISB2804C25	SNAP RING 25MM	1	
14	368347250	CONNECTING ROD	1	
15	040006304	BEARING 6304	1	
16	080100520	STOP RING R-52	1	
17	080200200	STOP RING S-20	1	
19	047940060	NEEDLE BEARING FJ-1816	1	
20	050710100	0- RING AS568- 267	1	
21	014208025	SOCKET HEAD BOLT 8X25 T	8	
23	366348550	CLUTCH ASSY.	1	
24	952401450	WASHER 8.5X22X3	1	
25-1	011208025	BOLT 8X25 T	1	
25-2	030208200	WASHER, LOCK M8	1	
26	368217640	ENGINE FLANGE	1	
28	001710840	SOCKET HEAD BOLT 8X40 T	4	
29	022611010	FLANGE NUT M10 H	4	
31	368347490	SHOCK ABSORBER BRACKET 60	1	
32-1	012010030	BOLT 10X30 H	4	
32-2	030210250	WASHER, LOCK M10	4	
33	939010270	STOPPER RUBBER (70)	1	
34	030208200	WASHER, LOCK M8 \ '	1	
35	020108060	NUT M8	1	
36	366900010	AIR CLEANER ASSY	1	INCLUDES ITEMS W/#
36-1#	366010010	AIR CLEANER COVER	1	
36-2#	366010020	WASHER, FLAT M6 (6.5X18X1.5)	2	
36-3#	030206150	WASHER, LOCK M6	2	
36-4#	366010040	COIN BOLT M6	2	
36-5#	366010050	AIR CLEANER BASE CP	1	
36-7#	366010070	PRIMARY ELEMENT CP	1	
36-8#	366010080	SECONDARY ELEMENT	1	
36-9#	362030040	GRIP BPLT CP	1	
37	366345470	INTAKE PIPE	1	
38	954407681	CYCLONE CLAMP (CY- 1) 45	1	
39	954407682	CYCLONE CLAMP (CY- 1) 38	1	
40	366460160	UNDER SEALING FORM	4	



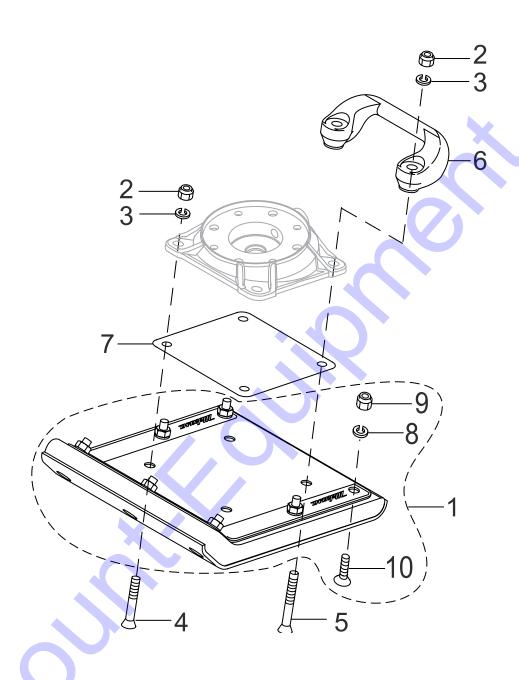
<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
41	366460150	SIDE SEALING FORM	1	
42-1	001220851	BOLT 8X55 T	2	
42-2	030208200	WASHER, LOCK M8	2 2	
42-3	014208020	WASHER, FLAT M8		
43-1	011008015	BOLT 8X15 H	2	
43-2	030208200	WASHER, LOCK M8	2	
44	368217760	BOTTOM CLEANER COVER 60	1	
45	368217750	TOP CLEANER COVER 60	1	
46	366460140	RUBBER BUSH 10X16X17	2	
47	366345980	CLEANER COVER KNOB	2	
48	050200060	0-RING P6	2	
49	009110040	FLANGE BOLT 8X20	4	
50	368119470	LINK GUARD	1	
51	368119480	MUFFLER GUARD	1	
52	022910260	WELL NUT M8	2 2	
53	366460170	FLANGE COLLAR 8	2	
54-1	014208020	SOCKET HEAD BOLT 8X20 T	4	
54-2	033910220	WASHER, FLAT M8	4	
55	009110038	SOCKET HEAD BOLT 8X30 ZN	2	
56	368217770	CROSS BAR	1	
57	009110039	SOCKET HEAD BOLT 6X25 ZN	4	
58	022910250	WELL NUT M6	4	
61	368119490	ENGINE GUARD	1	
62	366461050	COLLAR/GUARD	12	
63	033910220	WASHER 8.4X15.5X1.6	4	
64	009110038	SOCKET HEAD BOLT 8X30 ZN	4	
71-1	011206020	BOLT 6X20 T	2	
71-2	030206150	WASHER, LOCK M6	2	
71-3	031106100	WASHER, FLAT M6	2 2	
72	020106050	NUT M6		
73	959006120	CLIP (TCP2-10509B)	1	
74	368461280	WIRE HARNESS	1	
75	2067550101	CLAMP COMPL	2	
76	959021814	SPIRAL TUBE KEP6 / L=200	1	
77	454010020	CLAMP TC-100	3	
90	368347270	CRANK GEAR	1	
101	368010010	FRONT COVER	1	
121	912210014	ENGINE ASSY., GX100UKRBF	1	

GUIDE CYLINDER ASSY



GUIDE CYLINDER ASSY

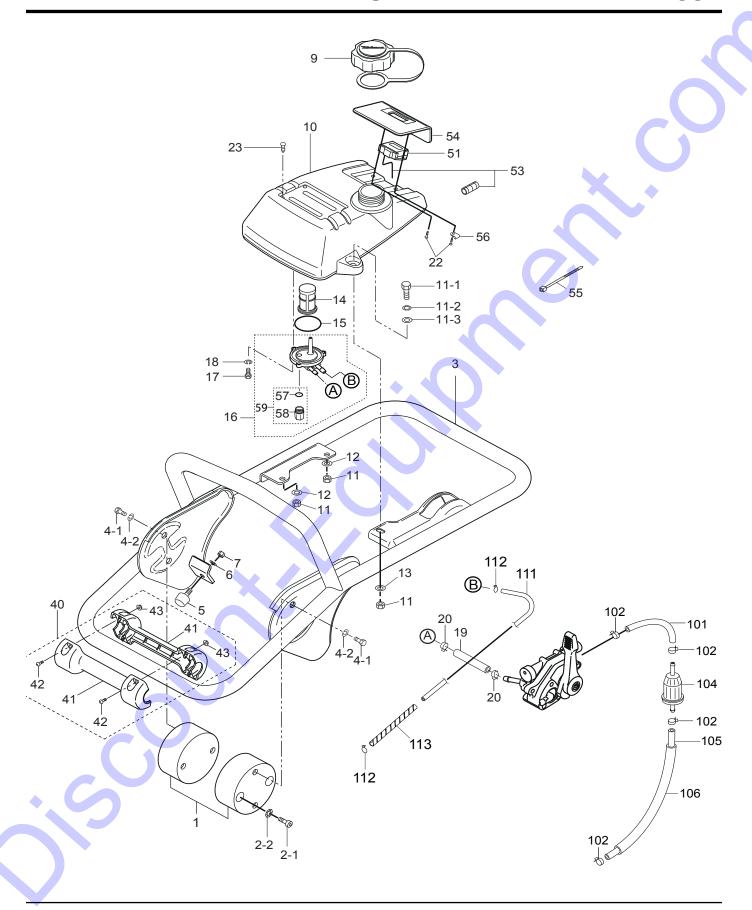
NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	368461210	PISTON PIN	1	
2	368459920	PISTON PIN PLUG	2	
3	368347290	PISTON ROD	1	
4	368461160	PISTON END	1	
5-1	012012030	BOLT 12X30 T	1	
5-2	030212300	WASHER, LOCK M12	1	
6	952404790	WASHER 13306	1	
7	368461260	LOWER STOPPER	1	
8	368461200	BOTTOM STOPPER	1	X
9	368461270	MAIN SPRING	2	
12	368347281	SPRING CYLINDER	1	REPLACES P/N 368347280
13	368217710	FOOT PLATE	1	
14	050100800	0-RING G-80	1	
15	014210020	SOCKET HEAD BOLT 15X20 T	4	
16	001520835	SOCKET HEAD BOLT 8X25 T	4	
17	953405270	PLUG 1/4X14 13L		
18	953405260	PACKING 1/4 (CU)	1	
20	368217720	CYLINDER GÙIDÉ	1	
21	050100850	0-RING G-85		
22	050101150	0-RING G-115	1	
23	012710035	BOLT 10X35 H, SW4	4	
24	368346180	ORANGE BELLOWS	1	
25	368347520	BELLOWS CLAMP 131D	1	
26	368461400	BAND GUIDE 131D	1	
27	368347530	BELLOWS CLAMP 149D	1	
28	368461410	BAND GUIDE 149D	1	
29	011008040	BOLT 8X40 T	2	
30	020108060	NUT M8	2	
31	953405270	PLUG 1/4X14 13L	1	
32	953405260	PACKING 1/4 (CU)	1	
33	368118970	PROTECTION SLEEVE	1	
34	366460300	OIL GAUGE ASSY.	1	
35	953404670	COPPER PACKING 17X25.5X1	1	
36	050200800	0-RING P-80	1	
37	050101300	0-RING G-130	1	
•.		3	•	



FOOT ASSY

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	362910150	FOOT ASSY. 265W M4B	1	INCLUDES ITEMS W/ #
2	022711214	NYLON NUT M12	4	
3	030212300	WASHER, LOCK M12	4	
4	009110034	BOLT, SQUARE NECK 12X65	2	
5	009110035	BOLT, SQUARE NECK 12X95	2	
6	363343390	HANDLE LIFT	1	
7	368347460	FOOT COVER	1	
8#	030210250	WASHER, LOCK M10	7	
9#	022711012	NYLON NUT M10	7	*
10#	009110036	BOLT, SQUARE NECK 10X55	7	

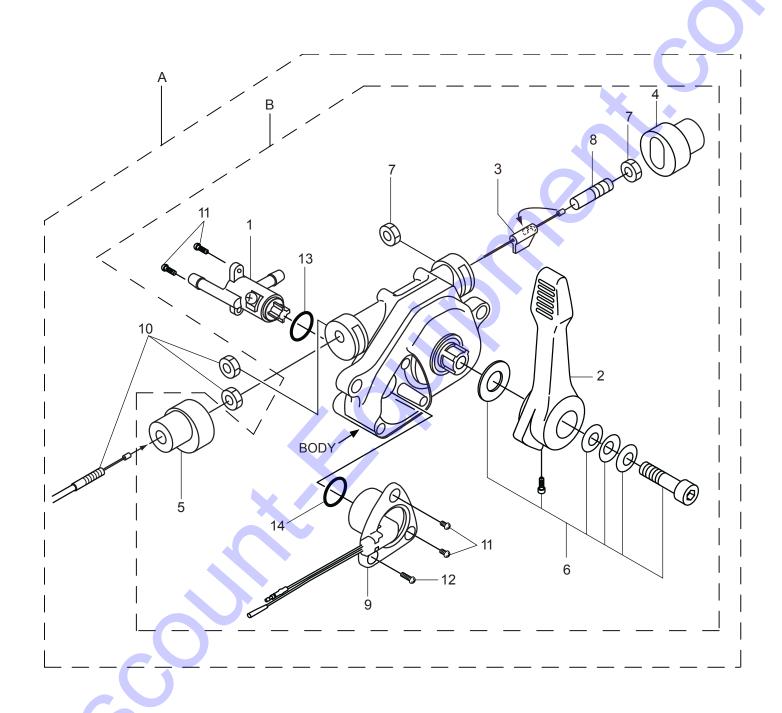
FUEL TANK AND HANDLE ASSY



PAGE 34 — MTX60HD RAMMER • OPERATION AND PARTS MANUAL — REV. #2 (07/05/16)

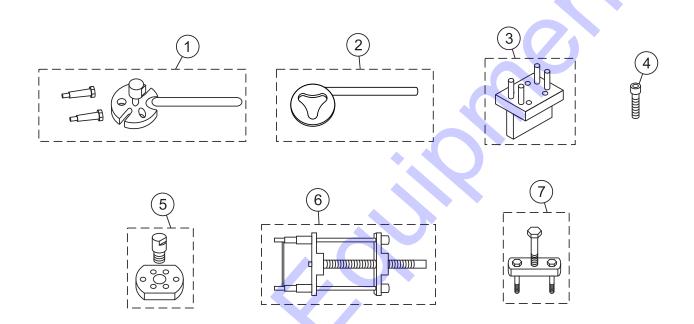
FUEL TANK AND HANDLE ASSY

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	368347630	SHOCK ABSORBER	2	
2-1	014210020	SOCKET HEAD BOLT 10X20 T	4	
2-2	033121009	TOOTHED LOCK WASHER B M10	4	
3	368119572	HANDLE	1	
4-1	001211020	BOLT 10X20 H	4	
4-2	030210250	WASHER, LOCK M10	4	
5	939010270	STOPPER RUBBER (70)	1	
6	030208200	WASHER, LOCK M8	1	
7	020108060	NUT M8	1	
9	366350460	CAP ASSY., FUEL TANK	1	
10	366120250	FUEL TANK/MTX70	1	
11	022710809	NYLON NUT M8	3	
11-1	011208025	BOLT 8X25 H	3 3	
11-2	030208200	WASHER, LOCK M8		
11-3	0401450080	WASHER, FLAT M8	3	
12	952401450	WASHER, 8.5X22X3	2	
13	0401450080	WASHER, FLAT M8		
14	954406010	STRAINER #110		
15	050250420	O-RING P42		INCLUDED ITEMO M/ ft
16	366350110	HOLDER, FILTER		INCLUDES ITEMS W/\$
17	001200515	BOLT 5X15 H	3 3	
18	030205130	WASHER, LOCK M5	3	
19	959328406	FUEL HOSE L=90	l O	
20 22	954406420	HOSE BAND 10.5 TAPPING SCREW 5X20	2 2	
23	009110037	PAN HEAD SCREW 4X8	4	
23 40	094010053 366910030	ROLLER ASSY. W/SCREW	4	INCLUDES ITEMS W/#
40 41 #	366217170	ROLLER ASST. WISCHEW	2	INGLODES ITEMS W/#
41 # 42#	0017105020	SCREW 5X20	4	
42# 43#	022610505	FLANGE NUT M5 H	4	
45# 51	955010311	TACH/HOUR METER	4	
53	955010311	CURL CORD TP22	1	
54	366345620	FINISHER, METER	1	
5 4	454010020	CLAMP TC100	5	
56	954010270	CLIP AB-3N	1	
57&\$	366464260	CUP, HOLDER FILTER	1	
57&\$ 58&\$	366464270	PACKING, HOLDER FILTER	1	
50&\$ 59\$	366900170	CUP AND PACKING SET	1	INCLUDES ITEMS W/&
ეყუ 101	959328402	FUEL HOSE 5.5X8.5X170		INGLODES ITEIVIS W/A
102	0561080020	CLAMP, HOSE	1	
104	16910Z4ES21	FILTER, IN-LINE FUEL	4	
105	959328403	FUEL HOSE 5.5X8.5X260	1	
105	959326403	TUBE, VINYL L180	1 1	
111%	959028301	RETURN HOSE 3X6X600	1 1	
		HOSE CLIP	2	
113%	959021814	SPIRAL TUBE 6D-200L	ے 1	
113/6	333021014	OF ITIAL TODE OD-200L	ı	



COMBINATION LEVER ASSY

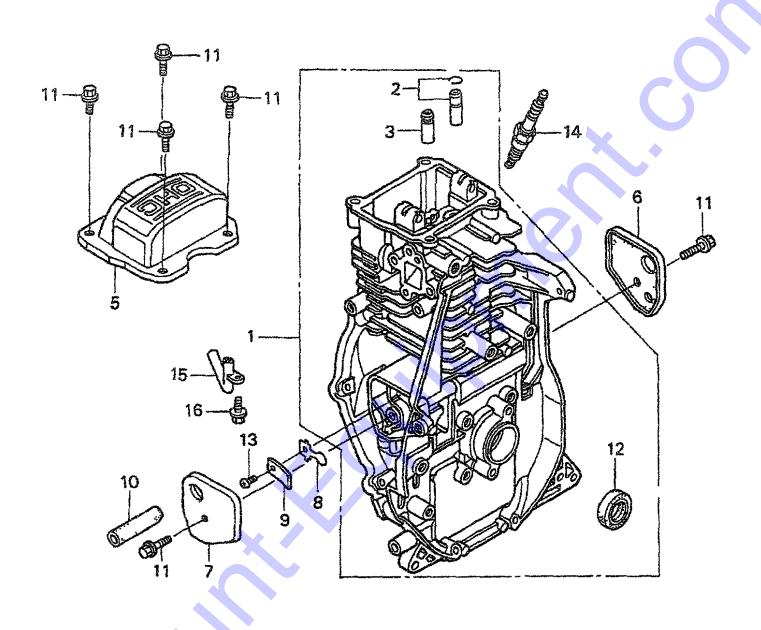
NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
Α	366900032	COMB. LEVER W/ THROTTLE WIRE	1	INCLUDES ITEMS W/@
В	956200110	COMB. LEVER W/OUT THROTTLE WIRE	1	INCLUDES ITEMS W/#
1@#	366349430	FUEL COCK	1	
2@#	366010310	LEVER	1	
3@#	366010190	SLIDER	1	
4@#	366010200	END CAP	1	
5@#	366010210	WIRE CAP	1	
6@#	366010220	BOLT AND WASHER SET	1	
7@#	020408050	NUT M8, H=5	2	X
8@#	959407650	SOCKET HEAD SCREW/TH.WIRE	1	
9@#	366010320	STOP SWITCH	1	
10@	956100062	THROTTLE WIRE	1	
11@#	094010051	TAPPING SCREW B1 4X12	4	
12@#	094010052	TAPPING SCREW B1 4X30	1	
13@#	050200150	O-RING, P15	1	
14@#	050200110	O-RING, P11	1	



TOOLS

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>	
1	981010400	CLUTCH PULLER A	1		
2	983010060	CLUTCH MOUNTER	1		
3	983910090	PISTON ROD HOLDER	1		
4	009110044	SOCKET HEAD BOLT 8X50 (FULL	THREAD)		
		CRANK GEAR REMOVER `	´ 2		
5	983910021	CLUTCH PULLER B	1		
6	983010042	SPRING CYLINDER REMOVER	1		
7	983910010	PISTON END REMOVER	1		
			-		

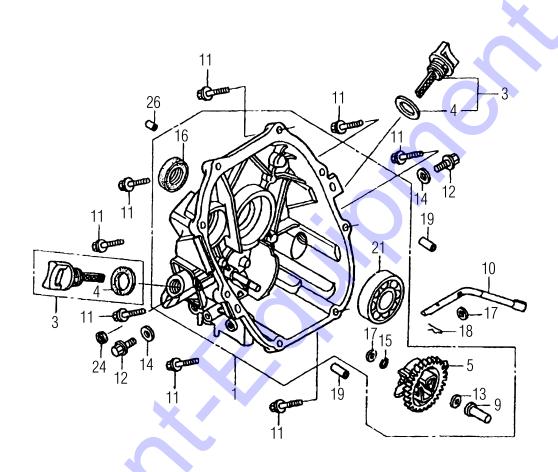
HONDA GX100UKRBF ENGINE — CYLINDER BARREL ASSY.



HONDA GX100UKRBF ENGINE — CYLINDER BARREL ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12000Z0DV00	BARREL ASSY., CYLINDER	1	INCLUDES ITEMS W/@
2@	12201Z0D305	GUIDE ASSY., EX VALVE (O.S.)	1	
3@	12204Z0D305	GUIDE, INLET VALVE (O.S)	1	
5	12311Z0D000	COVER, HEAD T	1	
6	12355Z0D000	COVER COMP A, BREATHER	1	
7	12365Z0D000	COVER COMP B, BREATHER	1	
8	15571Z0DV71	VALVE, OIL OUTLET	1	
9	15572ZM7000	PLATE, STOPPER	1	
10	15721Z0DV70	TUBE, BREATHER	1	*
11	90014952000	VOLT, FLANGE 6X14 (CT200)	6	
12@	91202KJ9003	OIL SEAL 20X32X6	1	
13	93500030050A	SCREW 3X5	1	
14	9805655777	PLUG, SPARK (U16FSR-UB)	1	
15	15171Z0DV00	PIPE, BREATHER	1	
16	90008ZM7000	BOLT 4X10	i	

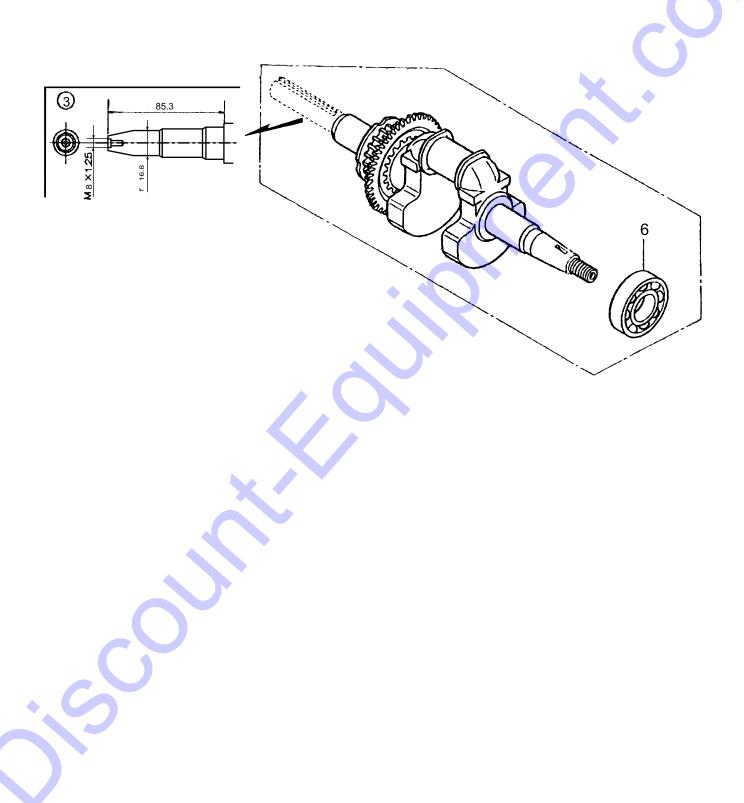
HONDA GX100UKRBF ENGINE — CRANKCASE COVER ASSY.



HONDA GX100UKRBF ENGINE — CRANKCASE COVER ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	11300Z0D409	COVER ASSY., CRANK CASE	1	.INCLUDES ITEMS W/@
3	15600ZM7003	OIL FILLER CAP ASSY	2	.INCLUDES ITEMS W/#
4#	15625ZE1003	PACKING, OIL FILLER CAP	2	
5@	16510ZL8000	GOVERNOR ASSY.	1	
9@	16531ZE1000	SLIDER, GOVERNOR	1	
10	16541Z0D000	SHAFT, GOVERNOR ARM	1	
11	90121952000	FLANGE BOLT 6x25	8	
12	90131ZE1000	BOLT, DRAIN PLUG	1	
13@	90451ZE1000	THRUST WASHER 6 MM	1	X •
14	90601ZE1000	WASHER, DRAIN PLUG	1	
15@	90602ZE1000	CLIP, GOVERNOR HOLDER	1	
16@	91202KJ9003	OIL SEAL 20x32x6	1	
17@	9410106800	PLAIN WASHER 6 MM	2	
18	9425108000	LOCK PIN	1	
19	9430108200	KNOCK PIN	2	
21@	91001Z0DV01	BEARING, RADIAL BALL 6204		
24	91231891003	OIL SEAL 6x11x4	1	

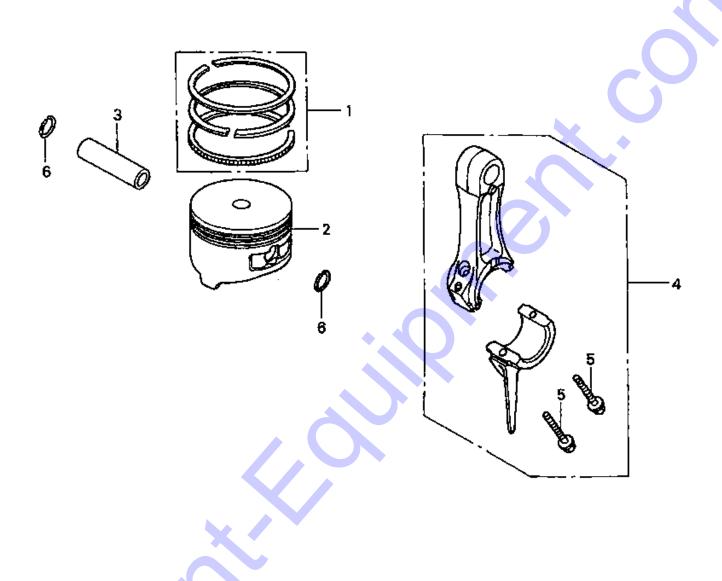
HONDA GX100UKRBF ENGINE — CRANKSHAFT ASSY.



HONDA GX100UKRBF ENGINE — CRANKSHAFT ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
3	13310Z0DV70	CRANK SHAFT COMP	1	INCLUDES ITEM W/@
6@	91001Z0DV01	BEARING, RADIAL BALL	2	

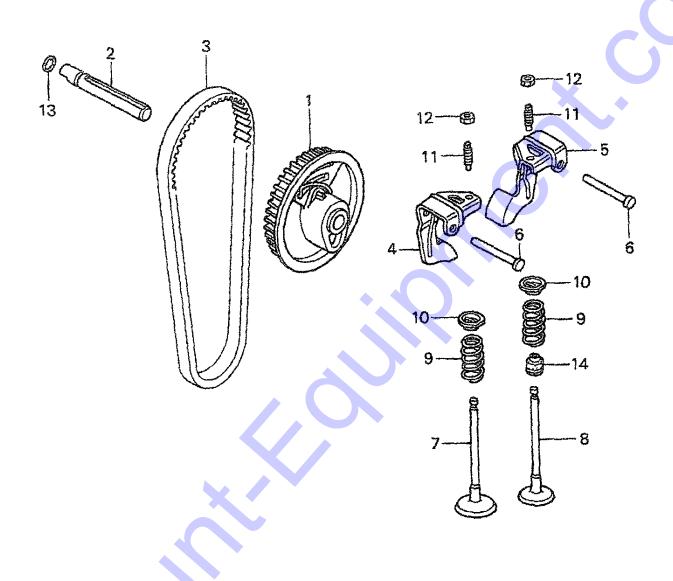
HONDA GX100UKRBF ENGINE — PISTON/ CONN. ROD ASSY.



HONDA GX100UKRBF ENGINE — PISTON/ CONN. ROD ASSY.

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

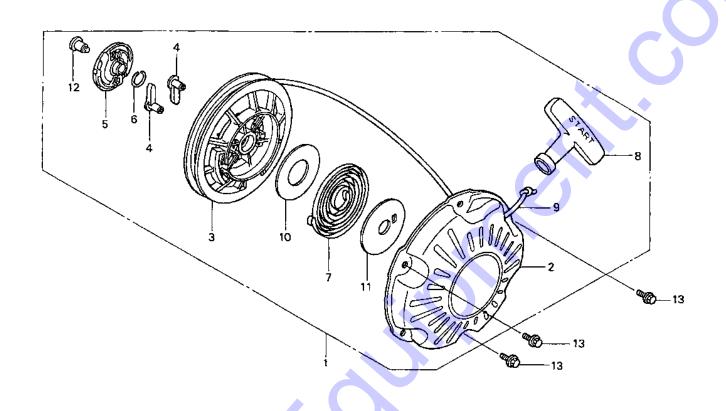
HONDA GX100UKRBF ENGINE — CAMSHAFT ASSY.



HONDA GX100UKRBF ENGINE — CAMSHAFT ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	14320Z0D010	PULLEY, COMP., CAMSHAFT	1	
2	14324Z0D000	SHAFT, CAM PULLEY	1	
3	14400Z0D003	TIMING BELT (61YU7 G-200)	1	
4	14431Z0D000	ROCKER ARM, INTAKE VALVE	1	
5	14441Z0D000	ROCKER ARM, EXHAUST VALVE	1	
6	14461ZL8000	SHAFT, ROCKER ARM	2	
7	14711Z0D000	INLET VALVE	1	
8	14721Z0D000	EXHAUST VALVE	1	
9	14751Z0D000	SPRING, VALVE	2	
10	14771ZM3010	RETAINER, VALVE SPRING	2	
11	90012333000	SCREW, TAPPET ADJUSTING	2	
12	90206001000	NUT, TAPPET ADJUSTING	2	
13	91301ZM0V31	O-RING 6.8X1.9	1	
14	12209KT7013	SEAL, VALVE STEM	1	V)

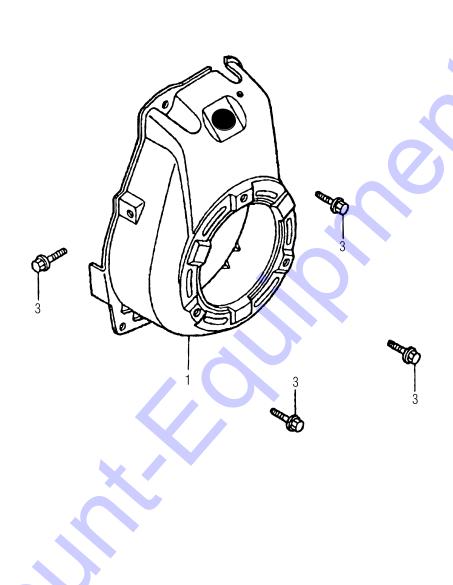
HONDA GX100UKRBF ENGINE — RECOIL STARTER ASSY.



HONDA GX100UKRBF ENGINE — RECOIL STARTER ASSY.

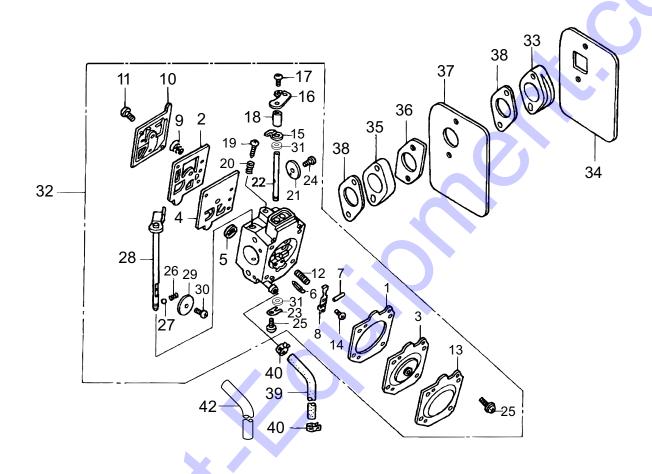
<u>NO.</u>	<u>PART NO.</u> 28400Z0DV04ZA	PART NAME RECOIL STARTER ASSY	<u>QTY.</u>	REMARKS INCLUDES ITEMS W/@
2@	28410Z0DV04ZA	CASE COMP, RECOIL @5-3-5	1	INOLODES ITEMS W/ @
3@	28421Z0DV02	REEL, RECOIL STARTER	1	
4@	28422ZG0W02	RATCHET, STARTER	1	
5@	28433ZG0W02	GUIDE, RATCHET	1	
6@	28441ZW6003	SPRING, FRICTION	1	
7@	28442ZH8003	SPRING, RECOIL STARTER	1	
8@	28461ZH8013	STARTER KNOB	1	
9@	28462Z0DV03	ROPE, RECOIL STARTER	1	•
10@	28467Z0DV02	PLATE, SIDE	1	
11@	28468Z0DV02	PLATE, SLIDE	1	
12@	90003ZH8003	SET SCREW	1	
13	957010600800	BOLT, FLANGE 6X8	3	

HONDA GX100UKRBF ENGINE — FAN COVER ASSY.



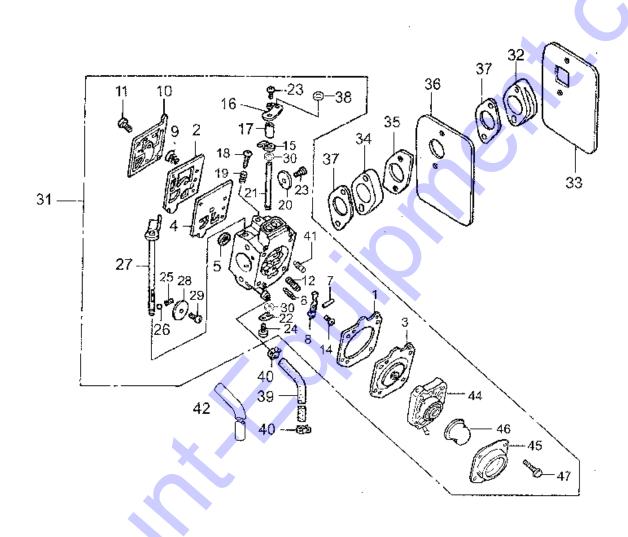
HONDA GX100UKRBF ENGINE — FAN COVER ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	19610Z4ES30ZA	FAN COVER CP	1	
3	90014952000	BOLT, FLANGE 6X14 (CT200)	4	



HONDA GX100UKRBF ENGINE — CARBURETOR ASSY. (S/N T-3423 & BELOW)

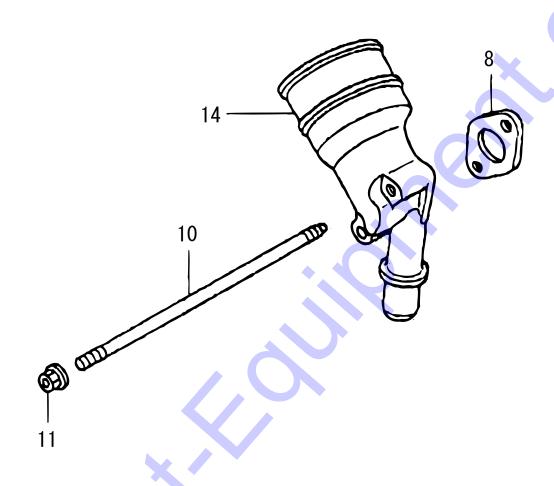
NO.	PART NO.	PART NAME	QTY.	REMARKS
1@	16010Z0DV02	GASKET, METALING DIAPHRAGM	1	
2@	16011Z0DV02	GASKET, PUMP	1	
3@	16013Z0DV02	DIAPHRAGM ASSY., METALING	1	
4@	16014Z0DV02	DIAPHRAGM, PUMP	1	
5@	16018ZM3004	SCREEN, INLET	1	
6@	16019ZM3004	VALVE, INLET NEEDLE	1	
7@	16022ZM3014	PIN, METALING LEVER	1	
8@	16023Z0DV02	LEVER, METALING	1	
9@	16030ZM3004	SPRING, PUMP	1	*
10@	16040Z0DV02	COVER, PUMP	1	
11@	16041Z0DV02	SCREW	1	
12@	16042Z4EV92	SPRING	1	
13@	16043Z0DV02	COVER, METALING DIAPHRAGM	1 /	
14@	16044Z0DV02	SCREW	1	
15@	16045Z0DV02	STOPPER, THROTTLE LEVER	1	
16@	16046Z0DV73	LEVER, THROTTLE	1	
17@	16054Z0DV02	SCREW, VALVE	1	· ·
18@	16048Z0DV02	SPACER, THROTTLE LEVER	1	
19@	16049Z4ES12	SCREW, IDLE ADJUSTING	1	
20@	16050Z0DV02	SPRING	1	
21@	16051Z0DV02	VALVE, THROTTLE	1	
22@	16052Z0DV02	SHAFT, THROTTLE	1	
23@	16053Z0DV02	CLIP, THROTTLE SHAFT	1	
24@	16054Z0DV02	SCREW, VALVE	1	
25@	16055Z0DV02	SCREW ASSY.	5	
26@	16056Z0DV02	SPRING	1	
27@	16057Z0DV02	BALL	1	
28@	16058Z0DV72	SHAFT ASSY., CHOKE	1	
29@	16059Z0DV03	VALVE, CHOKE	1	
30@	16060Z0DV02	SCREW	1	
31@	16061Z0DV02	SEAL, DUST	2	
32	16100Z4ES15	CARBURETOR, ASSY., (HAD 201C)	1	INCLUDES ITEMS W/ @
33	16211Z0DV00	INSULATOR, CARBURETOR	1	
34	16212Z0DV00	PACKING, INSULATOR	1	
35	16213Z4ES10	INSULATOR B, CARBURETOR	1	
36	16214Z0DV01	PACKING B, INSULATOR	1	
37	16215Z0DV00	PLATE, INSULATOR	1	
38	16221 Z 0DV00	PACKING, CARBURETOR	2	
39	950014500350M	HOSE, FUEL 4.5X270	1	
40	H950024085008	CLAMP, TUBE	2	
42	950033600110M	TUBE, VINYL 11X13X1M	1	
43	16552896650	COLLAR, LEVER	1	



HONDA GX100UKRBF ENGINE — CARBURETOR ASSY. (S/N T-3424 & ABOVE)

NO.	PART NO.	PART NAME	QTY.	REMARKS
1@	16010Z0DV02	GASKET, METERING DIAPHRAGM	1	
2@	16011Z0DV02	GASKET, PUMP	1	
3@	16013Z4ES32	DIAPHRAGM ASSY., METERING	1	
4@	16014Z0DV02	DIAPHRAGM, PUMP	1	
5@	16018ZM3004	SCREEN, INLET	1	
6@	16019ZM3004	VALVE, INLET NEEDLE	1	
7@	16022ZM3014	PIN, METERING LEVER	1	
8@	16023Z0DV02	LEVER, METERING	1	
9@	16030ZM3004	SPRING, PUMP	1	•
10@	16040Z4E802	COVER, PUMP	1	
11@	16041Z0DV02	SCREW	1	
12@	16042Z0DV02	SPRING	1	
14@	16044Z4E802	SCREW	1	
15@	16045Z0DV02	STOP, THROTTLE	1	/)
16@	16046Z0DV73	LEVER, THROTTLE	1	
17@	16048Z0DV02	SPACER, THROTTLE LEVER		
18@	16049Z4ES12	SCREW, IDLE ADJUSTING	1	·
19@	16050Z0DV02	SPRING	1	
20@	16051Z0DV02	VALVE, THROTTLE	1	
21@	16052Z0DV02	SHAFT, THROTTLE	1	
22@	16053Z0DV02	CLIP, THROTTLE SHAFT	1	
23@	16054Z0DV02	SCREW, VALVE	2	
24@	16055Z0DV02	SCREW ASSY.	1	
25@	16056Z0DV02	SPRING	1	
26@	16057Z0DV02	BALL	1	
27@	16058ZODV02	SHAFT, ASSY., CHOKE	1	
28@	16059Z0DV03	VALVE, CHOKE	1	
29@	16060Z0DV02	SCREW	1	
30@	16061Z0DV02	SEAL, DUST	2	
31	16100Z4ES43	CARBURETOR ASSY. (W/PRIMER).	1	INCLUDES ITEMS W/@
32	16211Z0DV01	INSULATOR, CARBURETOR	1	
33	16212Z0DV00	PACKING, INSULATOR	1	
34	16213Z4ES10	INSULATOR B, CARBURETOR	1	
35	16214Z0DV00	PACKING B, INSULATOR	1	
36	16215Z0DV00	PLATE, INSULATOR	1	
37	16221Z0DV00	PACKING, CARBURETOR	2	
38@	16552896650	COLLAR, LEVER	1	
39	34479	HOSE, FUEL 4.5X1M	1	
40	H950024085008	CLAMP, TUBE	2	
41@	99101Z0D0480	JET (#48)	1	OVER 7000
41@	99101Z0D0500	JET (#50)	1	5000-7000
41@	99101Z0D0520	JET (#52)	1	STANDARD
42	950033600110M	TUBÈ, VÍNYL 11X13X1M	1	
44@	16017Z4ES32	BODY ASSY., AIRPURGE	1	
45@	16026Z4ES32	COVER, PRIMER PUMP	1	
46@	16032Z4ES32	PUMP, PRIMER	1	
47@	16055Z4ES32	SCREW ASSY.	4	

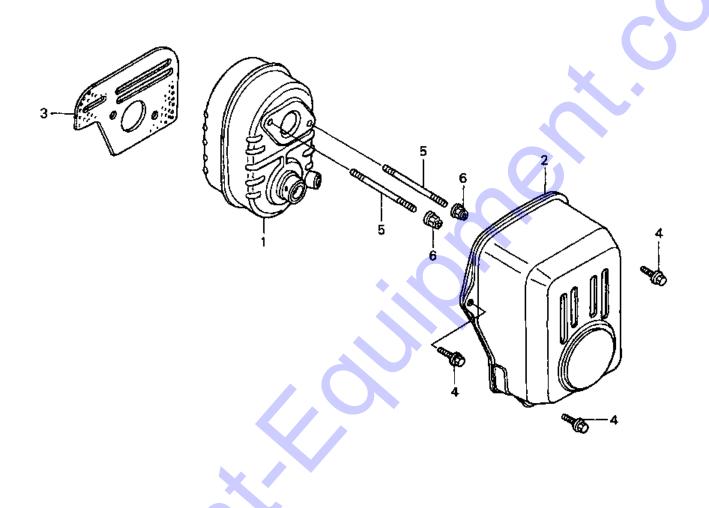
HONDA GX100UKRBF ENGINE — AIR CLEANER ASSY.



HONDA GX100UKRBF ENGINE — AIR CLEANER ASSY.

NO. 8	PART NO. 17228Z0DV21	<u>PART NAME</u> PACKING, AIR CLEANER	<u>QТҮ.</u> 1	<u>REMARKS</u>
10	90042Z4ES30	STUD BOLT 5X95	2	
11	9405005000	FLANGE NUT 5MM	2	
14	17410Z4ES31	ELBOW, AIR CLEANER	1	

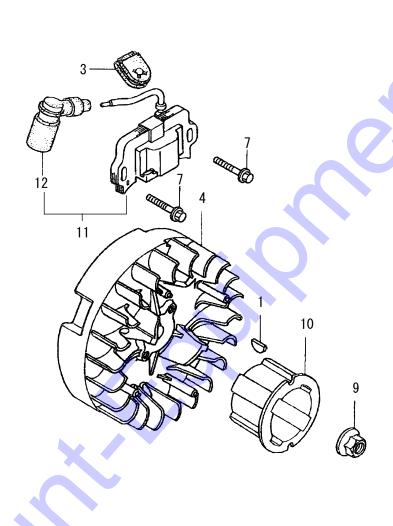
HONDA GX100UKRBF ENGINE — MUFFLER ASSY.



HONDA GX100UKRBF ENGINE — MUFFLER ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>	
1	18310Z0DV20	MUFFLER COMP.	1		
2	18321Z0DV22	MUFFLER PROTECTOR	1		
3	18381Z0D000	GASKET, MUFFLER	1		
4	90014952000	BOLT, FLANGE 6X14 (CT200)	3		
5	90048Z0DV00	STUD BOLT 6X78	2		
6	90343ZE6000	NUT, SELF-LOCK 6MM	2		
		,			

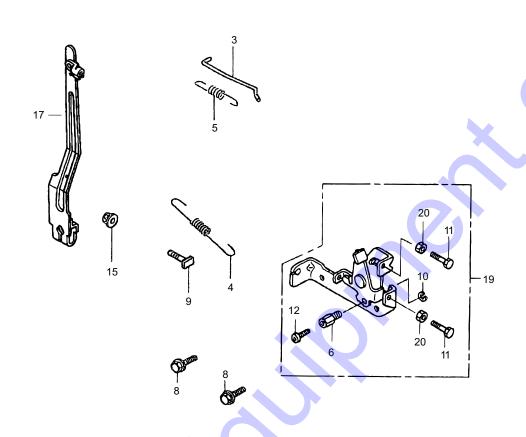
HONDA GX100UKRBF ENGINE — FLYWHEEL IGNITION ASSY.



HONDA GX100UKRBF ENGINE — FLYWHEEL IGNITION ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	13331ZM7000	WOODRUFF KEY 25X18	1	
3	30564ZA5000	GROMMET, CORD	1	
4	131110Z0D003	FLYWHEEL COMP	1	
7	90022888010	FLANGE BOLT 6X20	2	
9	9405012000	FLANGE NUT M12	1	
10	28451Z0DV03	STARTER PULLEY	1	
11	30500Z0DV02	IGNITION COIL ASSY	1	INCLUDES ITEMS W/@
12@	30700Z0DV01	TERMINAL ASSY	1	

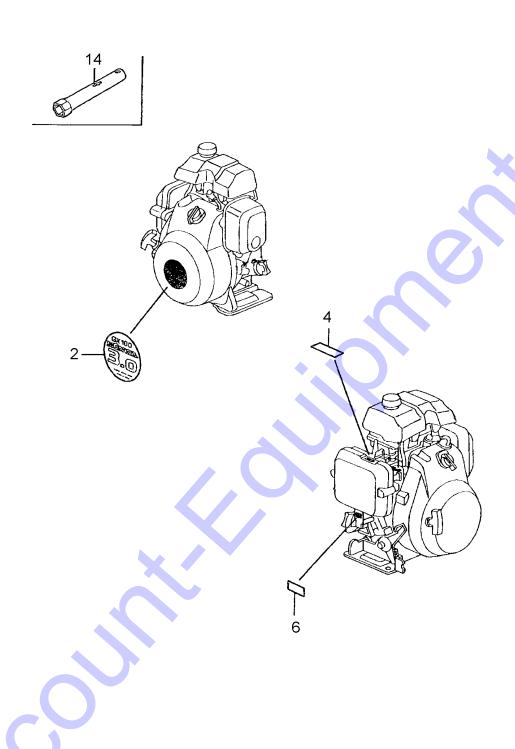
HONDA GX100UKRBF ENGINE — CONTROL ASSY.



HONDA GX100UKRBF ENGINE — CONTROL ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
3	16555Z0DV00	GOVERNOR ROD	1	
4	16561Z0DV00	GOVERNOR SPRING	1	
5	16562Z4ES10	SPRING, THROTTLE RETURN	1	
6@	16594883010	HOLDER, WIRE	1	
8	90014952000	BOLT, FLANGE 6X14 (CT200)	2	
9	90015ZE5010	BOLT, GOVERNOR ARM	1	
10@	90605230000	CIR CLIP	1	
11@	92301050220A	BOLT 5X20	1	
12@	0043504060	SCREW 4X6	1	•
15	9405006000	FLANGE NUT 6MM	1	
17	16550Z0DV01	GOVERNOR ARM	1	
19	16500Z4ES30	CONTROL ASSY	1	INCLUDES ITEMS W/@
20@	9400105000	NUT M5	2	

HONDA GX100UKRBF ENGINE — LABELS ASSY.



HONDA GX100UKRBF ENGINE — LABELS ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>	
2	87521Z0DV02	LABEL, TRADE MARK	1		
4	87528Z0D000	MARK, CHOKE	1		
6	87601Z4ES30	MARK, TYPE (KRBF)	1		
14	89216130690	WRENCH, SPÄRK PLUG	1		

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