OPERATION AND PARTS MANUAL



MODEL MC94SH/MC94PH MC94SE/MC94PE CONCRETE MIXER (HONDA GX240 SERIES GASOLINE ENGINES AND 1.5 HP ELECTRIC MOTOR)

Revision #13 (08/02/21)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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SILICOSIS/RESPIRATORY WARNINGS

AWARNING



SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

AWARNING



RESPIRATORY HAZARDS

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.

TABLE OF CONTENTS

MC94P/S Series Concrete Mixers

Proposition 65 Warning	2
Silicosis/Respiratory Warnings	3
Table of Contents	4
Training Checklist	6
Safety Information	7–12
Mixer Specifications/Noise and Vibration	13
Engine/Electric Motor Specifications	14
General Information	15
Basic Components (Mixer)	16
Engine Components	17
Electric Motor Components	18–19
Towing Guidelines	20
Safety Chain Connection	21
Inspection	22–23
Start-Up	24–25
Operation	26–27
Maintenance (Engine)	28–31
Maintenance (Mixer)	31–34
Troubleshooting (Mixer)	35
Troubleshooting (Engine)	36–37
Explanation of Code in Remarks Column	38
Suggested Spare Parts	39

Component Drawings

Nameplate and Decals Assembly	. 40-	-41
Plastic Barrel Assembly	. 42-	-43
Steel Barrel Assembly	. 44-	-45
Main Frame Assembly	. 46-	-47
Axle Assembly	. 48-	-49
Cabinet Assembly	. 50-	-51
Gas Engine Mounting Plate Assembly	. 52-	-53
Electric Motor Mounting Plate Assembly	. 54-	-55
Engine Service Parts	. 56-	-57

NOTICE

Specifications and part numbers are subject to change without notice.

TRAINING CHECKLIST

No,	Description	OK?	Date
INU,	-		Dale
1	Read operation manual completely.		
	Machine layout, location of		
2	components, checking of engine		
	oil levels.		
3	Fuel system, refueling procedure.		10
4	Operation of controls (machine not running).		. 4
5	Safety controls, safety stop switch operation.		,9e,
6	Emergency stop procedures.		
7	Machine transport and storage.		
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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
2	Lethal exhaust gas hazards
ANK.	Explosive fuel hazards
atallitatalum.	Burn hazards
	Rotating parts hazards

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.











- Avoid wearing jewelry or loose-fitting clothes that may snag on the controls or moving parts as this can cause serious injury.
- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when on medication.



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







- ALWAYS clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.
- 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 or older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to 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 the 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.









MIXER 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.



■ DO NOT mix flammable or explosive substances.

WARNING

■ **NEVER** place your hands inside the drum while starting or operating this equipment.



- 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.
- Before operating the mixer, ensure that the safety grate is in position and correctly fitted.

CAUTION

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

NOTICE

- ALWAYS keep the machine in proper running condition.
- **ALWAYS** ensure the mixer is on level ground before mixing.
- Fix damage to the machine and replace any broken parts immediately.
- **DO NOT** tip the mixer onto the drum mouth when the drum is rotating.
- Ensure the drum is rotating while filling and emptying the drum.
- 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.
- ALWAYS make sure the mixer is clean of dried materials. DO NOT allow material to build up inside the drum. Keep the drum, frame and wheels clean. Excess debris can fall off on the highway and/or build up on the frame and wheels, creating an unbalanced condition leading to premature metal fatigue.

ENGINE SAFETY (GASOLINE MODELS ONLY)

DANGER

- 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 the free flow of 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 the engine compartment when the engine is running.
- **NEVER** operate the engine with heat shields or guards removed.
- Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.
- **DO NOT** remove the 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 mixer.

CAUTION

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



■ Make certain the operator knows how to and is capable of turning the engine **OFF** in case of an emergency.

NOTICE

- **NEVER** run the engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service the 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 (GASOLINE MODELS ONLY)

DANGER

- **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 the tank, since spilled fuel can 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.



GENERATOR SAFETY

If using a generator to power the mixer, refer to the applicable generator manual safety information section.



ELECTRIC MOTOR SAFETY (ELECTRIC MODELS ONLY)

NOTICE

- Operate the electric motor only at the specified voltage indicated on the nameplate.
- **DO NOT** spray water onto the electric motor.
- **ALWAYS** disconnect the AC power plug from the power source before moving the mixer.
- ALWAYS make sure the ON/OFF switch on the electric motor is in the OFF position when not in use and before inserting the mixer's power plug into an AC receptacle.



Power Cord/Cable Safety

DANGER

- NEVER let power cords or cables lay in water.
- NEVER use damaged or worn cables or cords when connecting the equipment to a generator. Inspect the insulation for cuts.
- NEVER grab or touch a live power cord or cable with wet hands. The possibility exists of electrical shock, electrocution or death.



Make sure power cables are securely connected. Incorrect connections may cause electrical shock and damage to the mixer.

CAUTION

Ensure that cables and cords will not be tripped over or trapped underneath the mixer.

NOTICE

■ ALWAYS make certain that the proper power or extension cord has been selected for the job.

TRANSPORTING SAFETY

CAUTION

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

NOTICE

- ALWAYS make sure forklift forks are inserted as far as possible into the pockets (if applicable) when lifting the mixer.
- ALWAYS shut down the engine before transporting.
- **NEVER** lift the equipment while the engine is running.
- Tighten the fuel tank cap securely and close the fuel cock to prevent fuel from spilling.
- **DO NOT** lift the machine to unnecessary heights.
- ALWAYS tie down equipment during transport by securing the equipment with rope.
- **NEVER** tip the engine to extreme angles during lifting as this may cause oil to gravitate into the cylinder head, making the engine difficult to start.

TOWING SAFETY

CAUTION

- In addition to meeting *Department of Transportation* (*DOT*) safety towing regulations, check your local county or state safety towing regulations before towing the mixer.
- In order to reduce the possibility of an accident while transporting the mixer on public roads, **ALWAYS** make sure the towing vehicle is mechanically sound and in good operating condition.
- **ALWAYS** shut down the engine before transporting and place the fuel valve in the **OFF** position.
- ALWAYS inspect the hitch and coupling for wear. NEVER tow a mixer with defective hitches, couplings, chains, etc.
- Check the tire air pressure on both towing vehicle and mixer. Mixer tires should be inflated to 50 psi cold. Also check the tire tread wear on the vehicle and mixer.
- ALWAYS make sure the mixer is equipped with a safety chain.
- ALWAYS properly attach the mixer's safety chains to the towing vehicle.
- The maximum speed for highway towing is 55 MPH unless posted otherwise. Recommended off-road towing is not to exceed 15 MPH or less depending on type of terrain.
- Avoid sudden stops and starts. These can cause skidding or jackknifing. Smooth, gradual starts and stops will improve towing.
- Avoid sharp turns to prevent rolling.
- The mixer should be adjusted to a level position at all times when towing.
- Raise and lock the mixer wheel stand in the **UP** position when towing.
- Place *chock blocks* underneath the mixer wheels to prevent **rolling** while parked.

ENVIRONMENTAL SAFETY/DECOMMISSIONING

NOTICE

Decommissioning is a controlled process used to safely retire a piece of equipment that is no longer serviceable. If the equipment poses an unacceptable and unrepairable safety risk due to wear or damage or is no longer cost effective to maintain (beyond life-cycle reliability) and is to be decommissioned (demolition and dismantlement), follow the rules below.

- **DO NOT** pour waste or oil directly onto the ground, down a drain or into any water source.
- Contact your country's Department of Public Works or a recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.



- When the life cycle of this equipment is over, remove the battery (if equipped) and bring it to an appropriate facility for lead reclamation. Use safety precautions when handling batteries that contain sulfuric acid.
- When the life cycle of this equipment is over, it is recommended that the mixer frame and all other metal parts be sent to a recycling center.

Metal recycling involves the collection of metal from discarded products and its transformation into raw materials to use in manufacturing a new product.

Recyclers and manufacturers alike promote the process of recycling metal. Using a metal recycling center promotes energy cost savings.

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EMISSIONS INFORMATION

NOTICE

The gasoline engine used in this equipment has been designed to reduce harmful levels of carbon monoxide (CO), hydrocarbons (HC) and nitrogen oxides (NOx) contained in gasoline exhaust emissions.

This engine has been certified to meet US EPA evaporative emissions requirements in the installed configuration.

Attempting to modify or make adjustments to the engine emission system by unauthorized personnel without proper training could damage the equipment or create an unsafe condition.

Additionally, modifying the fuel system may adversely affect evaporative emissions, resulting in fi nes or other penalties.

Emission Control Label

The emission control label is an integral part of the emission system and is strictly controlled by regulation(s).

The label must remain with the engine for its entire life.

contact

MIXER SPECIFICATIONS/NOISE AND VIBRATION

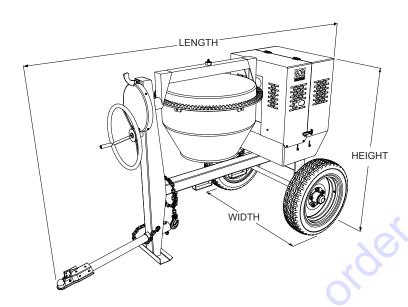


Figure 1. Dimensions

Table 1. MC94SP Series Specifications/Dimensions				
Height	63 in. (1,600 mm)			
Width	51 in. (1,296 mm)			
Length	103 in. (2,616 mm)			
Maximum Mixing Capacity	9 cu. ft. (170 liters)			
Bag Capacity	1 to 1.5 bag)			
Weight - With Engine/ ElectricMotor	755 lbs. (342 Kg.)			

Table 2. MC94SP Noise And Vibration (Gasoline Only)				
Guaranteed ISO 11201:2010 Based Sound Pressure Level at Operator Station in dB(A)	TBD			
Guaranteed ISO 3744:2010 Based Sound Power Level in dB(A)	TBD			

NOTES:

- 1. Sound Pressure and Power Levels are "A" weighted Measures per ISO 226:2003 (ANSI S1.4-1981). They are measured with the operating condition of the machine which generates the most repeatable but highest values of the sound levels. Under normal circumstances, the sound level will vary depending on the condition of the material being worked upon.
- 2. The vibration level indicated is the vector sum of the RMS (Root Mean Square) Values of amplitudes on each axis, standardized to an 8 hour exposure period, and obtained using operating condition of the machine that generates the most repeatable but highest values in accordance with the applicable standards for the machine.

ENGINE/ELECTRIC MOTOR SPECIFICATIONS

Table 3. Engine/Electric Motor Specifications					
Model	HONDA GX240K1QX2 GX240UT1QA2	Baldor 35LYL229			
Туре	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine	1.5 HP, 1Ø-120/240 VAC, Electric Motor			
Bore X Stroke	2.9 in. X 2.3 in. (73 mm x 58 mm)	N/A			
Displacement	14.81 cu. in. (242 cc)	N/A			
Max Output	8.0H.P./3,600 rpm	1.5 HP/1725 R.P.M.			
Fuel Tank Capacity	1.59 U.S. Gallons (6.0 Liters)	N/A			
Fuel	Unleaded Automobile Gasoline	N/A			
Lube Oil Capacity	1.16 qt. (1.1 liter)	N/A			
Speed Control Method	Centrifugal Fly-weight Type	N/A			
Starting Method	Recoil Start	Electric			
Input Voltage	N/A	120/240 VAC, 1Ø			
Dimension (L x W x H)	14.0 x 16.9 X 16.1 in. 15.55 x 8.65 X 9.06 (355 X 430 X 410 mm) (395 X 220 X 230 m				
Dry Net Weight	55.1 lbs (25.0 Kg.)	Approx. 12 lbs (5.4 kg.)			

Table 4. Mixing Hints								
Applications Mix Ratios Cement Bag Sand Stone					Approx. Batch Output			
								X /
Most Ordinary	1:2:4	1/2 Bag	11⁄4	35	2½	71	3	85
Foundations	1:3:6	1/3 Bag	11/4	35	2½	71	2¾	78
Rough Mass Concrete	1:4:8	1/4 Bag	11/4	35	2½	71	2¾	78
Watertight Floors, Tanks, Pits, etc.	1:1½:3	2/3 Bag	11/4	35	3	71	3	85

GENERAL INFORMATION

APPLICATION

This mixer is **only** intended for the production of **concrete**. The mixer must be used for its intended purpose and is not suitable for the mixing of flammable or explosive substances. The mixer *must not be used* in an explosive atmosphere. Use Table 4 (Mixing Hints) as a guide when mixing concrete for various applications.

POWER PLANTS

The mixer can be powered by a Honda GX240 air-cooled, 4-stroke gasoline engine or a 1.5 HP electric motor. Refer to Table 3 to for specific engine or electric motor data information.

ELECTRICAL

If mixer is equipped with an *electric motor*, make sure that the power being supplied to the motor corresponds to the voltage rating label on the motor. Supplying the wrong voltage to the electric motor will cause severe electrical damage to the motor.

Always make sure the **OFF/ON** switch on the electric motor is in the *OFF* position before applying power.

It is **strongly recommended** when inserting the mixer's power cord into a receptacle, that a G.F.C.I. (Ground Fault Current Interrupter) receptacle be used (120 VAC applications).

HARDWARE

Check all hardware on the mixer before starting. Periodically inspect all hardware. Loose hardware can contribute to early component failure and poor performance. Use Table 5 as general guideline when the torqueing of mixer hardware is required. Remember to keep all mixer hardware components tight.

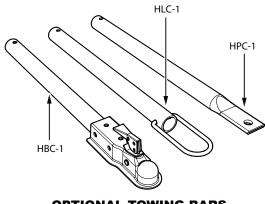
Table 5. Hardware Torque Recommendations				
Hardware Diameter Torque (ft-lbs)				
5/16-inch x 18 14				
3/8-inch x 16 24				
3/8-inch x 24 37				
1/2-inch x 13	39			
1/2-inch x 13 (Grade 8)	90			

ENGINE MAINTENANCE

For basic engine maintenance, refer to the engine maintenance section in this manual. For more detailed engine maintenance, refer to the Honda Engine Owner's manual furnished with the engine.

OPTIONAL TOW BARS

This mixer can be configured for use with various types of tow bars (ball, loop and pin). Reference Figure 2. Contact Discount-Equipment for the desired tow bar.



OPTIONAL TOWING BARS

Figure 2. Optional Tow Bars

BASIC COMPONENTS (MIXER)

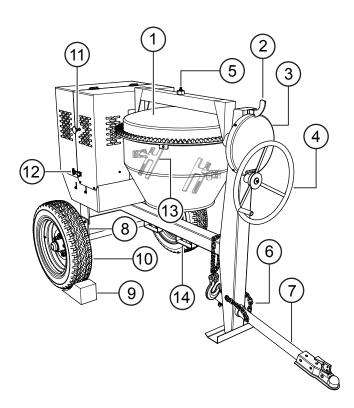


Figure 3. Mixer Major Components

- Steel Mixing Drum This mixer uses a 6 cu. ft <u>steel</u> mixing drum. This drum is to be used for mixing of concrete. Always clean the drum after each use. DO NOT use this mixing drum for the mixing of volatile liquids.
- 2. **Dump Latch** To rotate the mixing drum, this latch must be in the up position. To lock the drum, place the latch in the down position.
- 3. **Dump Gear Guard NEVER** operate the mixer with this guard removed. Its purpose is to prevent dirt and debris from entering the dump gear. In addition, operator clothing could become entangled in the dump gear, causing severe injury and bodily harm.
- Handwheel Turn this wheel clockwise or counterclockwise to rotate the mixing drum. Remember the dump latch must be in the *up position* in order for the mixing drum to be rotated.

- Zerk Fittings There are four grease zerk fittings that require lubrication, three are on the yoke, and the remaining fitting is located in the center of the handwheel. Lubricate these fittings as referenced in the maintenance section of this manual.
- Safety Chain This mixer uses a 3/16-inch thick,
 72-inches long zinc-plated saftey chain. ALWAYS connect the safety chain when towing.
- Tow Bar This mixer uses various towing bars, please reference the frame assembly drawing and parts list in this manual to determine which tow bar meets your requirements.
- 8. **Spring Suspension** This mixer uses a *spring* type suspension. Check the mounting hardware for bolt hole elongation and tightness. See maintenance section of this manual for recommended maintenance.
- Chock Blocks Place these blocks (not included as part of the mixer package) under each mixer wheel to prevent rolling, when mixer is not connected to the towing vehicle.
- Tires Ply The tire ply (layers) number is rated in letters. This mixer uses 13-inch 2-ply tires. Replace with only recommended type tires.
- 11. ON/OFF Switch (gasoline only) This switch is provided on mixer with gasoline engines only and is located on the side of the mixer cabinet. When activated it will shut down the engine. Pull out when starting the engine.
- Cabinet/Latch Encloses engine and electric motor.
 NEVER run mixer with cabinet removed. Use latches to secure engine compartment cabinet.
- 13. Mixing Blades (Steel) Used for the mixing of concrete. When blades show signs of wear, entire steel mixing drum assembly must be replaced. See steel mixing drum assembly in the parts section of this manual.
- 14. Forklift Pockets When lifting of the mixer is required, use these fork lift pockets to lift the mixer. Remember to insert the forks of the forklift a minimum of 24 inches into the lift pockets.

ENGINE COMPONENTS

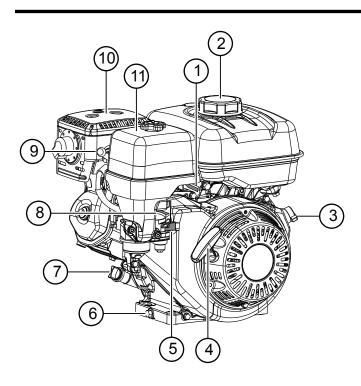


Figure 4. Engine Components

INITIAL SERVICING

The engine (Figure 4) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions and details of operation and servicing.

- 1. **Throttle Lever** Used to adjust engine RPM speed.
- Fuel Filler Cap/Fuel Tank Remove this cap to add unleaded gasoline to the fuel tank. Fill with unleaded gasoline. Refer to Table 3 for fuel tank capacity. Make sure cap is tightened securely. DO NOT over fill. For additional information, refer to Honda engine owner's manual.

A DANGER



Add fuel to the tank 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.

- 3. **Engine On/Off Switch ON** position permits engine starting, **OFF** position stops engine operation.
- 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. **Oil Drain Plug** Remove this plug to remove oil from the engine's crankcase.
- 7. **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 7.
- 8. **Choke Lever** Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
- 9. **Spark Plug** Provides spark to the ignition system. Set spark plug gap according to engine manufacturer's instructions. Clean spark plug once a week.
- Muffler Used to reduce noise and emissions. NEVER touch when hot!
- 11. **Air Cleaner** Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter canister to gain access to filter element.

NOTICE

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

ELECTRIC MOTOR COMPONENTS

ELECTRIC MOTOR

For lubrication care and operation of the electric motor, refer to your electric motor instruction booklet furnished with the motor.

Protect the electric motor from dust as much as possible and keep ventilating openings clean.

CAUTION

DO NOT spray water at any time on the electric motor. **DO NOT** operate electric motor in an explosive environment.

The electric motor used on this mixer is single-phase, 1/2 HP @120 VAC motor. Pay special attention to the nameplate on the electric motor when supplying power to the electric motor. Applying incorrect power to the motor can severely damage the motor and may cause serious bodily injury!

Always make certain that the correct voltage is being supplied to the motor. The input voltage requirements can be found on the electric motor's nameplate.

ELECTRIC MOTOR POWER CONNECTIONS

A 12-inch electrical cable (Figure 6) is provided with the electrical motor for hookup to a power source.

The electric motor supplied with the mixer is configured from the factory for 120 VAC grounded operation.

Motors can burn out when the line voltage falls 10% below the voltage rating of the motor. Failure to use proper voltage will cause the motor to overheat and actuate the overload switch.

If overload protection should actuate because of improper voltage or any other malfunction, turn the main switch on the motor to the "OFF" position and correct the problem, press the reset switch button, and turn the main switch to the "ON" position.

NOTICE

It is strongly recommended that all electrical wiring be done by a *licensed electrician*. Pay special attention to the nameplate on the electric motor. Make certain that the voltage supplied to the electric motor matches the required operating voltage printed on the nameplate.

ELECTRIC MOTOR VOLTAGE CHANGE SWITCH

- ALWAYS make certain the electric motor's ON/OFF switch is in the "OFF" position and the power cord has been disconnected from the power source.
- 2. Remove the voltage change lock-out bolt and nut (Figure 5). Change the position of the voltage change toggle switch from 120 VAC to 240 VAC. The mixer is factory wired for 120 VAC operation.
- 3. Re-install the voltage change lock-out bolt and nut.

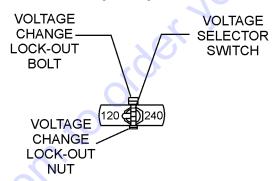


Figure 5. Voltage Change Switch

Important!, when changing the input voltage to the electric motor from 120 to 240 VAC, the plug on the electric motor power cord must also be changed. See Table 6 and Figure 6.

Table 6. Electric Motor Wiring Information						
120-	240 VAC -Single	Phase				
Motor HP	NEMA Plug	Mating NEMA				
Rating	Rating Connector Connector					
1.5 HP	1.5 HP L5-20P L5-20R					
(120 VAC) P/N EM940537 P/N EM940538						
1.5 HP	L6-20P	L6-20R				
(240 VAC)	P/N 940539	P/N 940540				

NOTICE

ALWAYS make certain the electric motor's ON/OFF switch is working properly. When the mixer is not in use, place the **ON/OFF** switch in the "**OFF**" position and disconnect the power cord from the power source.

ELECTRIC MOTOR COMPONENTS



CAUTION

NEVER disable or disconnect the **ON/OFF** switch on the electric motor. It is provided for operator safety. Injury may result if it is disabled, disconnected or improperly maintained.

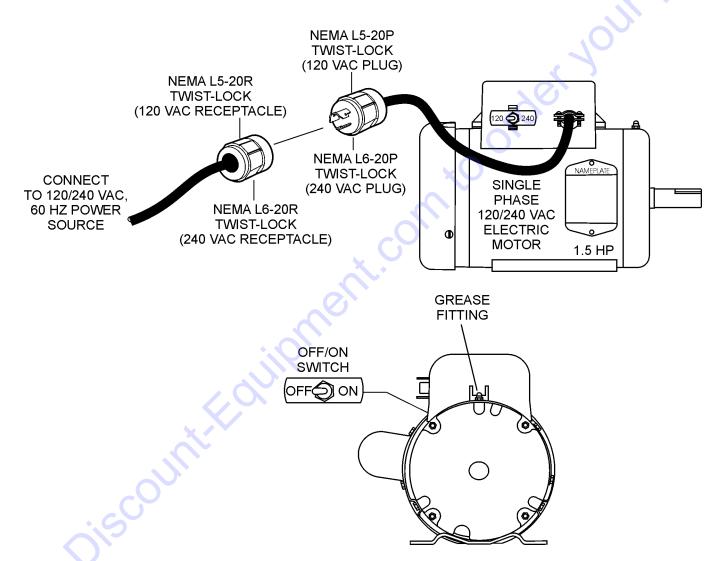


Figure 6. Electric Motor

TOWING GUIDELINES

TOWING SAFETY PRECAUTIONS

CAUTION

Check with your county or state safety towing regulations department before towing your mixer.

To reduce the possibility of an accident while transporting the mixer on public roads, always make sure that the mixer towing components and the towing vehicle are in good operating condition and both units are mechanically sound.

The following list of suggestions should be used when towing the mixer:

- Make sure that the hitch and coupling of the towing vehicle are rated equal to, or greater than the trailer "gross vehicle weight rating" (GVWR).
- ALWAYS inspect the hitch and coupling for wear. NEVER tow the mixer with defective hitches, couplings, chains etc.
- CHECK the tire air pressure on both the towing vehicle and the trailer. Also check the tire tread wear on both vehicles.
- ALWAYS make sure the mixer is equipped with a "Safety Chain."
- ALWAYS attach trailer's safety chain to the frame of towing vehicle.
- ALWAYS make sure that the towing vehicle's directional, backup, and brake lights are working properly.
- Remember in most cases the maximum speed unless otherwise posted for highway towing is 55 MPH, however before towing your mixer, check your local state, and county vehicle towing requirements. Recommended offroad towing is not to exceed 15 MPH or less depending on type of terrain.
- Place *chocked blocks* underneath wheels to prevent rolling, while parked, if disconnected from towing vehicle.
- Inflate tires to correct pressure, inspect tires for cuts, and excessive wear. See Table 10 (Tire Wear Troubleshooting).
- When towing of the mixer is required, place the drum in the up position (mouth facing upwards).

- ALWAYS make sure that the fuel valve lever is in the **OFF** position (gasoline models only).
- Check wheel mounting lug nuts with a torque wrench. Torque wheel lug nuts as described in the maintenance section of this manual.
- Check tightness of U-clamp nuts, torque suspension hardware as referenced in the maintenance section of this manual.
- Avoid sudden stops and starts. This can cause skidding, or jackknifing. Smooth, gradual starts and stops will improve gas milage.
- Avoid sharp turns to prevent rolling.



CAUTION

If the mixer tow bar is deformed or damaged replace entire tow bar. **NEVER** tow the mixer with a defective tow bar. There exists the possibility of the trailer separating from the towing vehicle.

TOW BAR TO VEHICLE (COUPLER ONLY)

- Check the vehicle hitch ball, and mixer's coupler for signs of wear or damage. Replace any parts that are worn or damaged before towing.
- 2. Use only a 2-inch ball diameter (towing vehicle), this will match the mixer's 2-inch coupler. Use of any other ball diameter will create an extremely dangerous condition which can result in separation of the coupler and ball or ball failure.
- 3. After tow bar has been connected to mixer (see next page), attach mixer's coupler to the hitch ball on the towing vehicle securely and make sure the lock lever is in the down position (locked).

MIXER TOW BAR VEHICLE (PINTLE AND LOOP)

- 1. Make sure the bumper on the towing vehicle is equipped to handle either a pintle or loop type tow bar configuration.
- 2. After tow bar has been connected to mixer (see next page), secure either type of tow bar to the towing vehicle, following state and county towing regulations
- 3. As a minimum, use a 1/2-inch bolt and nylock nut grade 5 when securing either tow bar to the towing vehicle.



CAUTION

NEVER tow the mixer with the safety chain removed. The safety chain is intended to prevent complete separation of the mixer from the towing vehicle in the event of a tow bar failure.

TOW BAR TO MIXER CONNECTION

1. Insert the tow bar through the round opening at the bottom of the mixer stand (Figure 7).

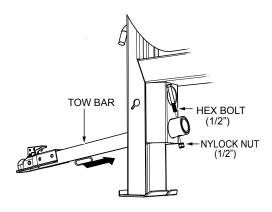


Figure 7. Inserting Tow Bar

- 2. Align the hole on the tow bar with the hole on the mixer frame (Figure 7), and insert 1/2-inch bolt through tow bar and frame. Secure tow bar to frame with 1/2-inch nylock nut. Tighten to 40 ft.-lbs.
- 3. Route the safety chain through the holes just above the tow bar, located on each side of the mixer stand.

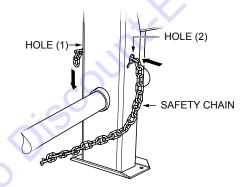


Figure 8. Attaching Safety Chains to Mixer Stand

Loop (cross) the safety chain (Figure 9) and place under the tow bar. Secure the loop with the safety chain connector link.

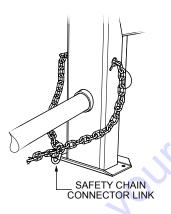


Figure 9. Crossing The Safety Chain

5. Extend the safety chain along the length of the tow bar (Figure 10), looping it through the tow bar's connector link. Remove any excess chain slack.

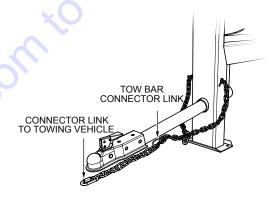


Figure 10. Extending Safety Chain

6. Connect the free end of (connector link) the safety chain to the towing vehicle (Figure 10). Remember it is critical that the length of the chain be properly adjusted, to prevent the draw bar and the front of the mixer stand from dropping to the the ground (contact) in the event the draw bar becomes disconnected from the towing vehicle.



CAUTION

Use a lifting device to lift tow bar onto vehicle coupler. If lifting device is not available, have two persons of similar height lift the tow bar. When lifting, do not attempt to lift by bending forward. Bend hips and knees to squat down to your load, keep it close to your body, and straighten your legs to lift.

BEFORE STARTING



CAUTION

NEVER disable or disconnect the **start/stop switch**. It is provided for operator safety. Injury may result if it is disabled, disconnected or improperly maintained.

- 1. Read all safety instructions at the beginning of manual.
- 2. Clean the unit, 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.



CAUTION



ALWAYS wear approved eye and hearing protection while operating the mixer.



CAUTION



NEVER place hands or feet inside the engine guard cover while the engine is running. **ALWAYS** shut the engine down before performing any kind of maintenance service on the mixer.

ENGINE OIL CHECK

- 1. To check the engine oil level, place the unit on secure level ground with the engine stopped.
- Remove the filler dipstick from the engine oil filler hole (Figure 11) and wipe it clean.

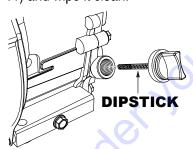


Figure 11. Engine Oil Dipstick (Removal)

- 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 12), fill to the edge of the oil filler hole with the recommended oil type (Table 7). Maximum oil capacity is 2.33 pints (1.09 liters).

NOTICE

Reference engine manufacturer's manual for specific servicing instructions.

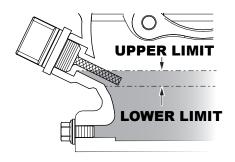


Figure 12. Engine Oil Dipstick (Oil Level)

Table 7. Engine Oil Type					
Season Temperature Oil Type					
Summer	SAE 10W-30				
Spring/Fall 25°C ~ 10°C		SAE 10W-30/20			
Winter	0°C or Lower	SAE 10W-10			

FUEL CHECK

A

DANGER



If your mixer has a gasoline engine, determine if the engine fuel is low. If fuel is low, remove the fuel filler cap and fill it with **unleaded** gasoline. Motor fuels are **highly flammable** and can be dangerous

if mishandled. **DO NOT** smoke while refueling. **DO NOT** attempt to refuel the mixer if the engine is **hot** or **running.**

- 1. Remove the gasoline cap located on top of fuel tank.
- 2. Visually inspect to see if fuel level is low. If fuel is low, replenish with unleaded fuel.

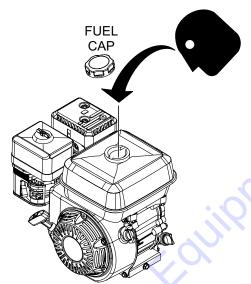


Figure 13. Engine Oil Dipstick (Oil Level)

When refueling, be sure to use a strainer for filtration.
 DO NOT top-off fuel. Wipe up any spilled fuel immediately.

TIRES

Check for *worn* or *defective* tires (Figure 14). Replace any defective or worn tires immediately.

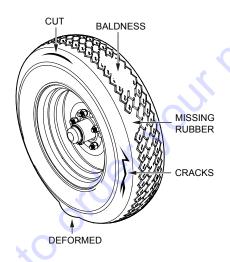


Figure 14. Tire Wear

V-BELT CHECK

Visually examine the V-belt (Figure 15) and determine if it is full of tiny cracks, frayed, has pieces of rubber missing, is peeling or otherwise damaged.

Also, examine the belt and determine if it is *oil soaked* or "*glazed*" (hard shiny appearance on the sides of the belt). Either of these two conditions can cause the belt to run hot, which can weaken it and increase the danger of it breaking.

If the V-belt exhibits any of the above wear conditions replace the V-belt immediately.

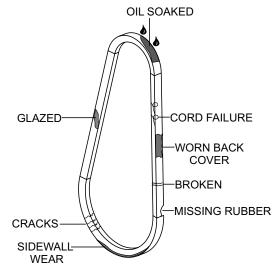


Figure 15. V-Belt Inspection

This section is intended to assist the operator with the initial start-up of the unit. It is extremely important that this section be read carefully before attempting to use the mixer in the field. **DO NOT** use your mixer until this section is thoroughly understood.



Failure to understand the operation of the mixer could result in severe damage to the mixer or personal injury. Reference Figure 3 and Figure 4 for the location of any components referenced in this manual.

CAUTION



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

STARTING THE MIXER (GASOLINE ENGINE)

The following steps outline the procedure for starting the engine.

Place the fuel shut-off lever (Figure 16) in the ON position.



Figure 16. Fuel Shut-Off Lever

2. To start a cold engine, move the choke lever (Figure 17) to the **CLOSED** position.



Figure 17. Choke Lever

3. Move the throttle lever (Figure 18) away from the slow position, about 1/3 of the way toward the fast position.

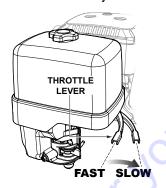


Figure 18. Throttle Lever

4. Turn the engine switch (Figure 19) to the ON position.

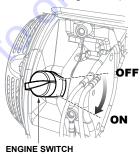


Figure 19. Engine On/Off Switch

5. Located at the rear of the mixer frame is the main *start/stop* button (Figure 20). Pull this button outward to start the engine.

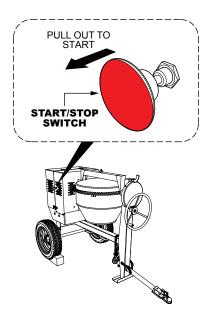


Figure 20. Engine Start/Stop Button

6. Pull the **starter grip** (Figure 21) lightly until you feel resistance, then pull briskly. Return the starter grip gently.

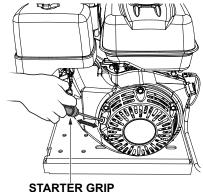


Figure 21. Starter Grip

STARTING THE MIXER (ELECTRIC MOTOR)

The following steps outline the procedure for starting the electric motor.

 Using an adequate size extension cord (Table 8), connect one end of the extension cord to the plug on the electric motor, connect the other end to the power source. Make sure the motor is configured for the proper operating voltage.

Table 8. Recommended Extension Cord Size						
Electric Input 50 ft. 75 ft. 100 ft. 200 ft. Motor Voltage (15.24 m) (22.86 m) (30.48 m) (60.96 m)						
1.5 HP	120 VAC	No. 12	No. 10	No. 8	No. 6	
1.5 ПР	240 VAC	No. 14	No. 12	No. 12	No. 8	
CAUTION: Equipment damage can result from low voltage						

NOTICE

Extensions cords must be rated "Heavy Duty" or "Extra Heavy Duty" and must be a continuous length.

2. To start the electric motor, move the **ON/OFF** switch to the ON position (Figure 22).

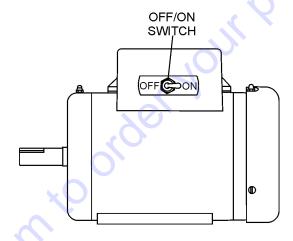


Figure 22. Electric Motor ON/OFF Switch

MIXING

1. To position the tub, make sure the mixer is placed on firm level ground, then pull up on the dump latch (Figure 23) and turn the hand wheel until the tub is at the desired position. Once the tub is at the desired position, pull down on the dump latch to lock the tub in position.

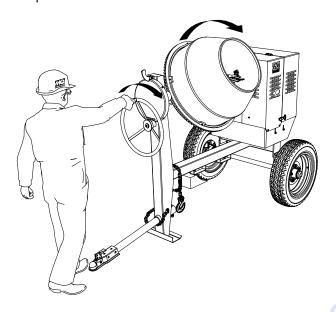
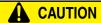


Figure 23. Mixing Drum Positioning



NEVER stand in front or behind the mixing drum while it is being placed in the dump position. Stay clear of the mixing drum while it is being positioned.

 As the drum rotates, use a shovel (Figure 24) to place the cement mix inside the drum, add water as required.
 Be careful to only place the tip of the shovel inside the drum.

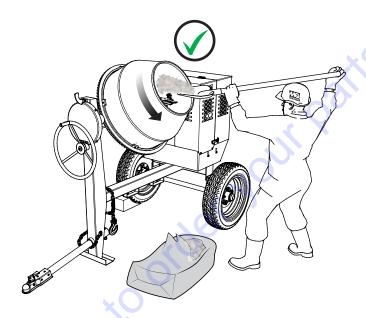


Figure 24. Filling Mixing Drum (CORRECT)

Placing the shovel all the way inside the drum (Figure 25)
will cause the shovel to strike the blades. This condition
will make the shovel rotate, and could cause injury to
personnel. NEVER place hands inside the mixing drum
while it is rotating.

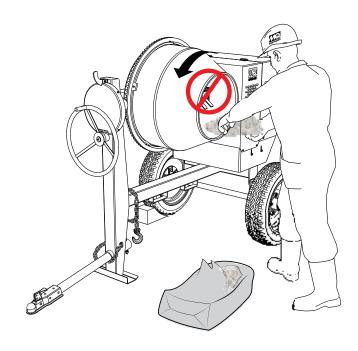


Figure 25. Filling Mixing Drum (WRONG)

STOPPING THE MIXER (GASOLINE ENGINE)

1. Place the throttle lever (Figure 26) in the slow (idle) position, and let the engine idle 3~5 minutes.



Figure 26. Throttle Lever (Idle)

2. Push the engine **start/stop** switch (Figure 27) inward to stop the engine.

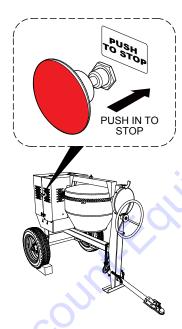


Figure 27. Start/Stop Button (Stop Position)

3. Place fuel shut-off lever (Figure 28) in the **OFF** position.

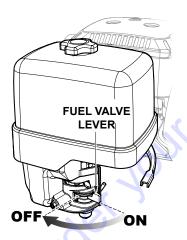


Figure 28. Fuel Shut-Off Lever (OFF)
STOPPING THE MIXER (ELECTRIC MOTOR)

1. To stop the electric motor, move the **ON/OFF** switch to the **OFF** position (Figure 29).

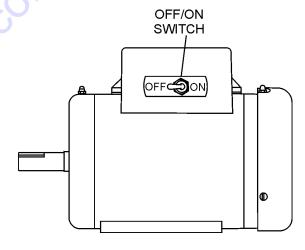


Figure 29. Electric Motor OFF/STOP Switch

2. Remove extension cord from electric motor plug.

MAINTENANCE (ENGINE)

Use Table 9 as a general maintenance guideline when servicing your engine. For more detail engine maintenance information, refer to the engine owner's manual supplied with your engine.

		Table	9. Engine Mai	intenance Sch	edule		
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	Χ					
	Change		Χ				
Air Cleaner	Check	Χ				7	
All Cleaner	Change			X (1)			
All Nuts and Bolts	Re-tighten if necessary	Х				9	
Charle Dluga	Check/Clean				Х		
Spark Plugs	Replace				хO		Χ
Cooling Fins	Check				X		
Spark Arrester	Clean					Χ	
Fuel Tank	Clean			60		Х	
Fuel Filter	Check			X		Х	
Idle Speed	Check/ Adjust		.0			X (2)	
Valve Clearance	Check/ Adjust		00				X (2)
Fuel Lines	Check	-	Eve	ery 2 years (rep	lace if necessa	ry) (2)	

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

⁽²⁾ These items should be serviced by your service 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.

MAINTENANCE (ENGINE)

MAINTENANCE

Perform the scheduled maintenance procedures as defined by Table 9 and below:

DAILY

AIR CLEANER/ FASTENERS

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.

WIRING

Inspect the entire mixer for bad or worn electrical wiring or connections. If any wiring or connections are exposed (insulation missing) replace wiring immediately.

PIPING AND HOSE CONNECTION

Inspect all piping, oil hose, hydraulic hose and fuel hose connections for wear and tightness. Tighten all hose clamps and check for leaks. If any hose lines are defective replace them immediately.

WEEKLY

FUEL STRAINER (IF EQUIPPED)

- 1. Thoroughly clean the area around the fuel cap.
- 2. Remove the fuel cap from the fuel tank.
- 3. Next, remove, inspect and clean the fuel strainer (Figure 30) with solvent.

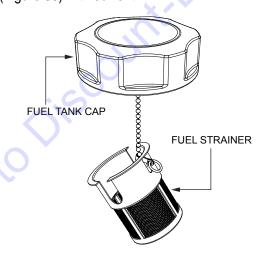


Figure 30. Fuel Strainer

SPARK PLUG

1. Remove and clean the spark plug (Figure 31), then adjust the spark gap to 0.024 ~0.028 inch (0.6~0.7 mm). This unit has electronic ignition, which requires no adjustments.

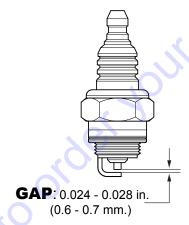


Figure 31. Spark Plug Gap

ENGINE OIL

- 1. Drain the engine oil when the oil is warm as shown in Figure 32.
- 2. Unscrew the oil filler dipstick from its holder.
- 3. Next, remove oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
- 4. Replace engine oil with recommended type oil as listed in Table 7. For engine oil capacity, see Table 3 (Engine Specifications). **DO NOT** overfill.
- 5. Install drain bolt with sealing washer and tighten securely.

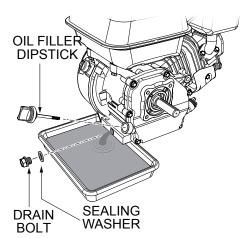


Figure 32. Draining Engine Oil

MAINTENANCE (ENGINE)

ENGINE AIR CLEANER (DUAL ELEMENT)

- 1. Remove the air cleaner cover and foam filter element as shown in Figure 33.
- 2. Tap the paper filter element (Figure 33) several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm2)] 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.
- Clean foam element in warm, soapy water or nonflammable solvent (Figure 34). Rinse and dry thoroughly.
- Next, dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing. The engine will smoke if too much oil is left in the foam.

⚠ DANGER

DO NOT use gasoline as a cleaning solvent to avoid creating the risk of fire or an explosion.

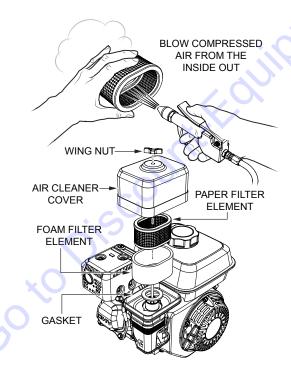


Figure 33. Engine Air Cleaner (Dual Element)

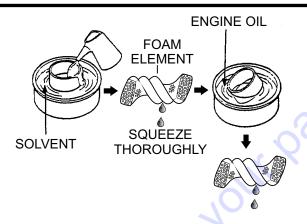


Figure 34. Cleaning Foam Element

5. Reassemble the air cleaner, and tighten the wing nut securely.

SPARK ARRESTER CLEANING

Clean the spark arrester every 6 months or 100 hours.

1. Remove the 4 mm screw (3) from the exhaust deflector (Figure 35), then remove the deflector.

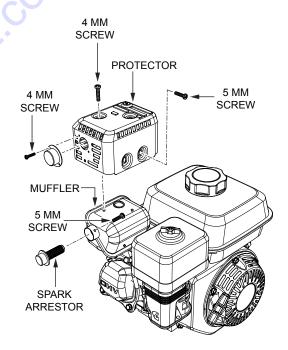


Figure 35. Spark Arrester

2. Remove the 5 mm screw (4) from the muffler protector, then remove the muffler protector.

3. Carefully remove carbon deposits from the spark arrester screen (Figure 36) with a wire brush

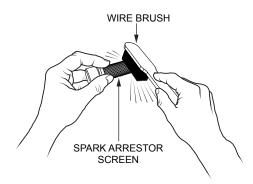


Figure 36. Cleaning The Spark Arrester

- 4. If the spark arrester is damaged and has breaks or holes, replace with a new one.
- 5. Reinstall the spark arrester and muffler protector in reverse order of disassembly.

BALL SOCKET AND CLAMP FACE

30 to Discound

- If the towing vehicle is equipped with a ball socket, smear socket periodically with multi-purpose grease. This will keep the ball socket well lubricated.
- Periodically oil *pivot points* and *clamp face* surfaces of coupler with SAE 30 WT. motor oil.
- When parking or storing your mixer, keep the coupler off the ground so dirt will not build up in the ball socket.

GREASE FITTINGS (ZERK) - MIXER

 There are *four* grease (Figure 37) fittings that will require lubrication. Lubricate these fittings *once a week*. Use lithium base grease, grade N0.1.

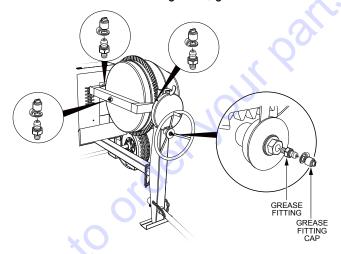


Figure 37. Grease Fittings (Mixer)

GREASE FITTINGS (ZERK) - ELECTRIC MOTOR

1. There are *two* grease (Figure 38) fittings at each end of the electric motor that will require lubrication. Lubricate these fittings about *every 16 months*.

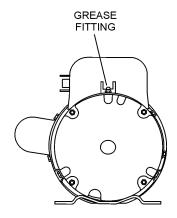


Figure 38. Grease Fittings (Electric Motor)

 Use Poleyrex EM (Exxon Mobil) or equalivant lubricant. Clean grease fitting, apply grease gun to fitting (1/2 shot). Remember too much grease or injecting grease too quickly can cause premature bearing failure. Slowly apply the recommended amount of grease, taking a miniute or so to apply.

MAINTENANCE (MIXER)

WHEEL BEARINGS

After every 3 months of operation, remove the hub dust cap and inspect the wheel bearings (Figure 39).
 Once a year, or when required, disassemble the wheel hubs remove the old grease and repack the bearings forcing grease between rollers, cone and cage with a good grade of high speed wheel bearing grease (never use grease heavier than 265 A.S.T.M. penetration ("No. 2.").

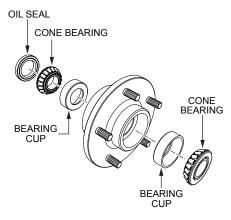


Figure 39. Wheel Hub and Bearings

2. Fill the wheel hub (Figure 39) with grease to the inside diameter of the outer races and also fill the hub grease cap. Reassemble the hub and mount the wheel. Then tighten the adjusting nut, at the same time turn the wheel in both directions, until there is a slight bind to be sure all the bearing surfaces are in contact.

Then back-off the adjusting nut 1/6 to 1/4 turn or to the nearest locking hole or sufficiently to allow the wheel to rotate freely within limits of .001" to .010" end play. Lock the nut at this position. Install the cotter pin and dust cap, and tighten all hardware.

MIXER CLEANING

It is important that the drum interior is free of dried material. Obstructions can cause the paddle blades to lock against the drum.

- For gasoline models, push the "Engine Stop" button inward to the OFF position to the stop the engine. For electric models place the ON/OFF switch in the OFF position.
- 2. If mixer is equipped with a gasoline engine , **ALWAYS** disconnect the spark plug wire before cleaning the inside of the drum.

- 3. If mixer is equipped with an electric motor *remove* power cord from AC power source..
- 4. Place "DO NOT Operate" tag on mixer.
- At the end of each day's operation, place mixer drum in an upright position and spray inside of tub immediately with water to prevent lumps of dried mortar or plaster from forming and contamination of future batches.
- 6. **DO NOT** allow a buildup of materials to form on the blades or anywhere inside the drum.
- 7. Rotate mixer to *dump* position and remove debris.
- 8. **Thoroughly clean** the entire mixer, wheels, cabinet and frame.
- 9. **NEVER!** pour or spray water over the engine or electric motor (Figure 40).

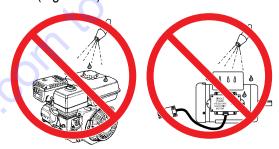


Figure 40. No Spraying of Water

10. When cleaning of the entire mixer is done, return mixing drum to an upright position.

TIRES/WHEELS/LUG NUTS

Tires and wheels are a very important and critical components of the trailer. When specifying or replacing the trailer wheels, it is important the wheels, tires and axle are properly matched.





DO NOT attempt to repair or modify a wheel. **DO NOT** install an inter-tube to correct a leak through the rim. If the rim is cracked, the air pressure in the inter-tube may cause pieces

of the rim to explode (break-off) with great force and can cause serious eye or bodily injury.

Tires Wear/Inflation

Tire inflation pressure is the most important factor in tire life. Pressure should be checked cold before operation. **DO NOT** bleed air from tires when they are hot. Check inflation pressure weekly during use to insure the maximum tire life and tread wear.

WARNING



ALWAYS wear safety glasses when removing or installing force fitted parts. Failure to comply may result in serious injury.

Table 10 (Tire Wear Troubleshooting) will help pinpoint the causes and solutions of tire wear problems.

Table 10. Tire Wear Troubleshooting				
Wear Pattern		Cause	Solution	
	Center Wear	Over Inflation	Adjust pressure to particular load per tire manufacturer	
	Edge Wear	Under Inflation	Adjust pressure to particular load per tire manufacturer.	
	Side Wear	Loss of chamber or overloading	Make sure load does not exceed axle rating. Align wheels.	
	Toe Wear	Incorrect toe-in	Align wheels.	
	Cupping	Out of balance	Check bearing adjustment and balance tires.	
	Flat Spots	Wheel lockup and tire skidding	Avoid sudden stops when possible and adjust brakes.	

SUSPENSION

The spring suspension and associated components (Figure 41) should be visually inspected every 6,000 miles for signs of excessive wear, elongation of bolt holes and loosening of mounting bracket. Replace any damaged suspension component immediately.

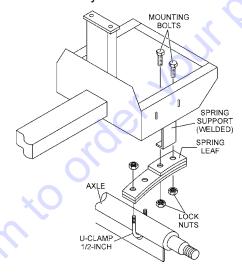


Figure 41. Suspension Components

LUG NUT TORQUE REQUIREMENTS

It is extremely important to apply and maintain proper wheel mounting torque. Be sure to use only the fasteners matched to the cone angle of the wheel. Proper procedure for attachment of the wheels is as follows:

- 1. Start all wheel lug nuts by hand.
- 2. Torque all lug nuts in sequence. See Figure 42. **DO NOT** torque the wheel lug nuts all the way down. Tighten (torque) each lug nut in three separate passes as defined by Table 11.

NOTICE

NEVER use an pneumatic air gun to tighten wheel lug nuts.

MAINTENANCE (MIXER)

3. After first road use, retorque all lug nuts in sequence. Check all wheel lug nuts periodically.

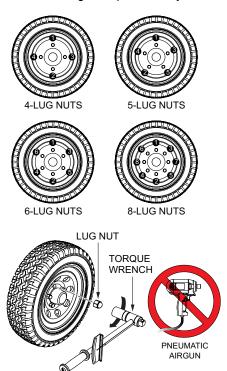


Figure 42. Wheel Lug Nuts Tightening Sequence

Table 11. Tire Torque Requirements				
Wheel Size	First Pass Second Pass FT-LBS FT-LBS		Third Pass FT-LBS	
12"	20-25	35-40	50-65	
13"	20-25	35-40	50-65	
14"	20-25	50-60	90-120	
15"	20-25	50-60	90-120	
16"	20-25	50-60	90-120	

MIXER STORAGE

For storage of the mixer for over 30 days, the following is recommended:

- Drain the fuel tank completely, or add STA-BIL to the fuel.
- Run the engine until the gasoline in the carburetor is completely consumed.
- Completely drain the oil from the crankcase and refill with fresh oil.
- Clean the entire mixer and engine compartment.
- Place the mixing drum in the down position (mouth facing downward).
- Clean all external parts of the mixer with a cloth.
- Cover the mixer and place it a clean dry area, that is protected from harsh elements.

TROUBLESHOOTING (MIXER)

	Troubleshooting (Mixer)		
Symptom	Possible Problem	Solution	
	Defective ring gear?	Check that the ring gear and bearings are not worn. Replace as necessary.	
Drum rotates rough.	Defective pinion gear?	Check that the pinion gear and bearings are not worn . Replace as necessary.	
	Worn V-belt?	Replace V-belt.	
	Loose pulley?	Tighten or replace pulley.	
	Incorrect or no voltage being supplied to electric motor?	Check that the electric motor has the correct supply voltage.	
	Power to electric motor?	Inspect power source and extension cord. Push reset button on electric motor. Make sure correct voltage is being supplied to motor.	
Drum does not rotate at all.	Fuel?	Check level of fuel in fuel tank. Add fuel if necessary. Make sure fuel is being supplied to the engine. Check to ensure that the fuel filter is not clogged.	
	Broken V-belt?	Replace V-belt.	
	Defective ring or pinion gears?	Check that the gears and bearings are not broken. Replace as necessary.	
	Defective electric motor?	Replace electric motor.	

	Troubleshooting (Electric Motor)	
Symptom	Possible Cause	Solution
	Is there power?	Check power source. Check reset button.
60	Is power cable plugged in?	Plug in power cable.
Electric motor will not start.	Is ON/OFF switch placed in ON position?	Place ON/OFF switch in ON position.
	Defective electric motor ON/OFF switch?	Replace switch.
	Defective motor windings?	Repair windings or replace windings.
	Defective extension cord?	Replace extension cord.
Electric motor continuously stops.	Reset button OK?	Check power source.
Electric motor RPM's too low.	Low voltage?	Check input voltage.
Electric motor RPM's too high.	High voltage?	Check input voltage.

TROUBLESHOOTING (ENGINE)

	Troubleshooting (Engine)		
Symptom	Possible Problem	Solution	
	Spark plug bridging?	Check gap, insulation or replace spark plug.	
	Carbon deposit on spark plug?	Clean or replace spark plug.	
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.	
	Improper spark plug gap?	Set to proper gap.	
	Spark plug is red?	Check transistor ignition unit.	
Difficult to start, fuel is available, but no spark at spark plug.	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 is cracked or broken and replace. Check if spark plug is fouled. Replace if fouled.	
	No oil?	Add oil as required.	
	Oil pressure alarm lamp blinks upon starting? (if applicable)	Check automatic shutdown circuit, "oil sensor". (if applicable)	
	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.	
process at the opan prog.	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 available, spark is	Piston ring and/or cylinder worn?	Replace piston rings and/or piston.	
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.	
60	No fuel in fuel tank?	Fill with correct type of fuel.	
iso	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.	
XO	Air in fuel line?	Bleed fuel line.	
Will not start, no power with key "ON". (if applicable)	ON/OFF device not in ON position?	Place ON/OFF device in ON posotion.	

TROUBLESHOOTING (ENGINE)

Symptom	Troubleshooting (Engine) - continued Possible Problem	Solution
Symptom		
	Air cleaner dirty?	Clean or replace air cleaner.
Weak in power, compression is proper and does not misfire.	Improper level in carburetor?	Check float adjustment, rebuild carburetor.
does not mistire.	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.
Described and social services (for extracted)	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.
	Over-accumulation of exhaust products?	Check and clean valves. Check muffler and replace if necessary.
Burns too much fuel.	Wrong spark plug?	Replace spark plug with manufacturer's suggested type.
	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.

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

1 12345 BOLT	<u>NO.</u>	<u>Part no.</u>	<u>Part name</u>	<u>QTY.</u>	<u>REMARKS</u>
2% 12347 WASHER, 3/8 IN1MQ-45T ONLY 3 12348 HOSEA/RMAKE LOCALLY	1	12345	BOLT	1	INCLUDES ITEMS W/%
3 12348 HOSEA/RMAKE LOCALLY	2%		WASHER, 1/4 IN	l	NOT SOLD SEPARATELY
	2%	12347	WASHER, 3/8 IN	l1	MQ-45T ONLY
4 12349 BEARING1S/N 2345B AND ABOV	3	12348	HOSE	A/R	MAKE LOCALLY
	4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol

(@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

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

NOTICE

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

PART NO. Column

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

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

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

QTY. Column

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

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

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

REMARKS Column

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

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

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

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

Indicated by:

"S/N XXXXX AND BELOW"

"S/N XXXX AND ABOVE"

"S/N XXXX TO S/N XXX"

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

Indicated by:

"XXXXX ONLY"

"NOT USED ON XXXX"

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

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

SUGGESTED SPARE PARTS

MC-94S/P CONCRETE MIXER 1 TO 4 UNITS WITH HONDA GX240 SERIES ENGINES

Qty.	P/N	Description	
2	.493399	.V-BELT, GASOLINE B-55, 8.0 HP	
		V-BELT, ELECT., MOTOR B-59, 1	
1	.29173-001	STOP BUTTON W/GAS ENGINE	
2	.491010	LATCH SET	
1	.505390	EXPANSION PLUG	
2	.510956	SPINDLE BEARING CUP	
2	.510955	SPINDLE BEARING CONES	
1	.EM505472	SPACER, DRUM (STEEL ONLY)	
2	.EM914288	.SEAL, AXLE	
	.EM903012		
2	.EM903113	BEARING CONE	
2	.3469	.DUST CAP, AXLE	
3♣	.17210ZE2515	ELEMENT, AIR CLEANER	
3◊	.17210ZE2822	ELEMENT, AIR CLEANER	
3	.9807956855	SPARK PLUG, DENSO	
	.17620ZH7023		
10	.17620Z4H020	.CAP, FUEL TANK	
	.28462ZE2W11		

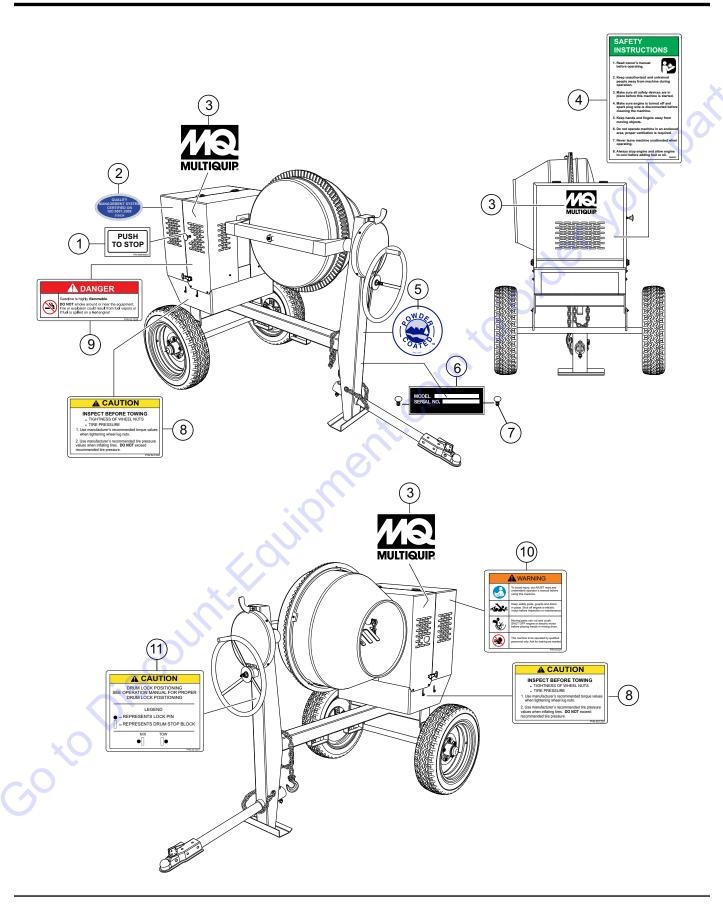
NOTICE

- ♣ HONDA GX240K1QA2
- ♦ HONDA GX240UT1QA2

NOTICE

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

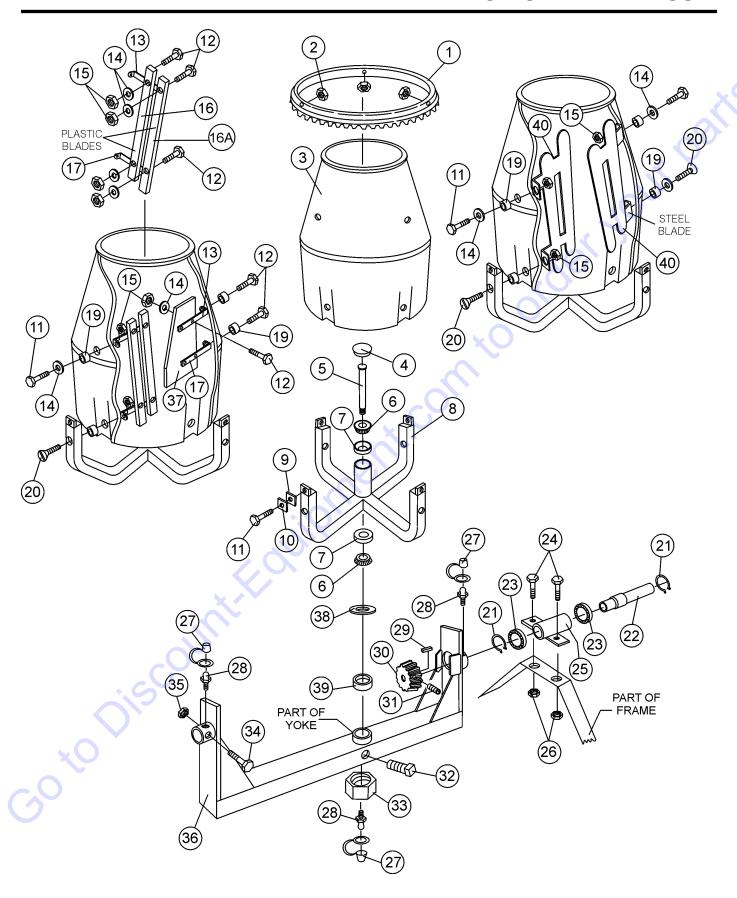
NAMEPLATE AND DECALS ASSY.



NAMEPLATE AND DECALS ASSY.

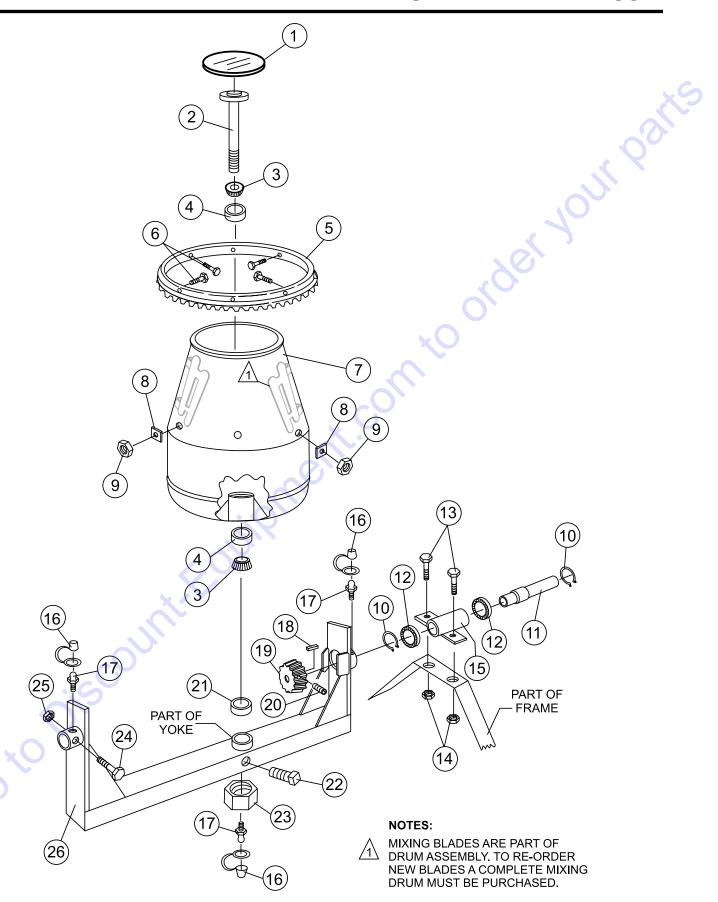
2 3 4	PART NO. 948630 518524 512910 520935	PART NAME DECAL, PUSH TO STOP DECAL, ISO 9001:2000, EXPORT MQ MULTIQUIP LOGO DECAL, SAFETY INSTRUCTIONS	QTY. 1 1 3	REMARKS
5 6 7 8 9 10 11	13118 491757 521232 521228 521229 521231	DECAL, POWDER COATED NAMEPLATE POP RIVET DECAL, TOWING INSTRUCTIONS DECAL, DANGER NO SMOKING DECAL, WARNING READ MANUAL DECAL, DRUM LOCK POSITION	1 CON 2 2 2 2 2 1	TACT DISCOUNT-EQUIPMEN
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PLASTIC BARREL ASSY.



PLASTIC BARREL ASSY.

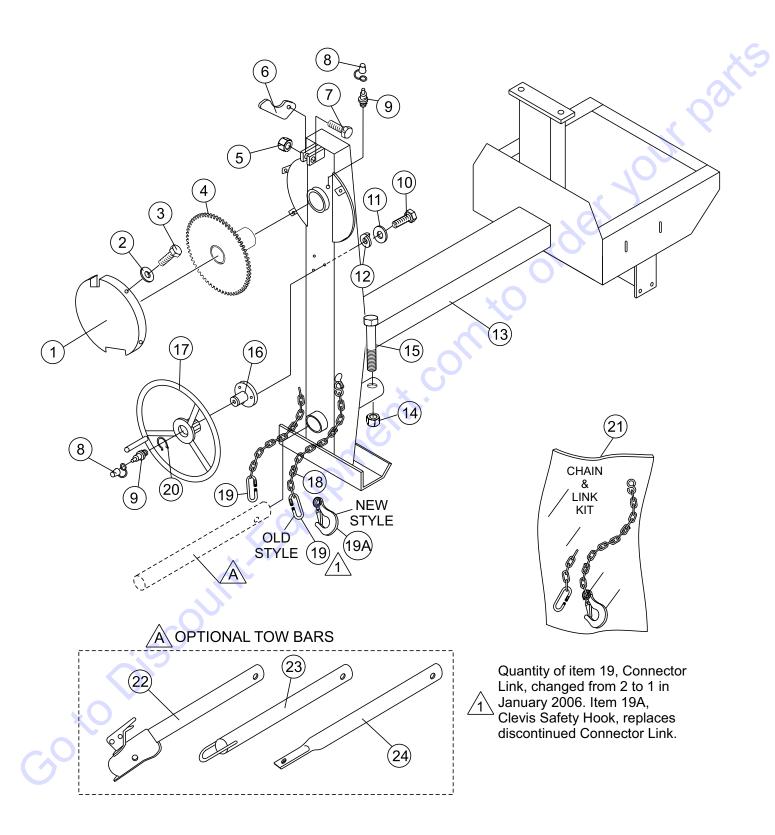
NO.	PART NO.	PART NAME	QTY.	<u>REMARK</u>
1	514061	RING GEAR	1	
2	EM969013	NUT, LOCK 3/8" NC	4	
3	508492	BARREL, PLASTIC 9 CU. FT.	1	
4	505390	PLUG, EXPANSION	1	X
5	508491	KING PIN	1	
6	510955	SPINDLE BEARING CONE	2	
7	510956	SPINDLE BEARING CUP	2	
8	514930	SUPPORT SPIDER	1	
9	511758	SHIM PLASTIC #14	AR	
10	511759	SHIM PLASTIC #16	AR	10
11	EM963057	BOLT 3/8" NC 1-1/2" G5	4	
12	492378	BOLT 3/8" NC 1-3/4" G5	16	
13	507542	SUPPORT BRACKET, UPPER	4	76,
14	492598	WASHER, FLAT	16	
15	492583	NUT, HEX 3/8" NC	16	
16	508497	PLASTIC BLADE, VERT. LONG	2	
16A	508498	PLASTIC BLADE, VERT. SHORT	2	
17	507541	SUPPORT BRACKET, LOWER	4	
19	507538C	SPACER MC8079	4	
20	508345	BOLT, FLAT HEAD 3/8" NC X 3-1/2" G	4	
21	EM926036	RING, RETENTION	2	
22	514515	DRIVE PINION SHAFT	1	
23	492179	BEARING, PINION SHAFT	2	
24	EM963692	BOLT 1/2" NC X 1-1/2" G5	2	
25	502036	HOUSING, JACKSHAFT	1	
26	492584	LOCKNUT, HEX 1/2" NC	2 3	
27	491008	CAP, GREASE FITTING	3	
28	EM916001	GREASE FITTING 1/8" NPT	3	
29	500246	SQUARE KEY 1/4 X 35 MM	1	
30	503915	DRIVE PINION	1	
31	492468	ALLEN SCREW 5/16 NC 1/2"	1	
32	492491	SET SCREW 1/2" X 1" NC	1	
33	07037-024	NUT, HEX LOWER 1-1/2" NF	1	REPLACES EM968306
34	505079	BOLT 5/8" NC X 1-1/4" NC	1	
35	492586	LOCKNUT, HEX 5/8" NC	1	
36	510647	YOKE	1	
37	508496	BLADE, PLASTIC (SHOVEL)	2	
38	500980	WASHER, FLAT 1-9/16"	1	
39	505472	SPACER, BARREL	1	
40	515450	STEEL BLADES	4	EFFECTIVE 02/2005



PAGE 44 — MC94S/P CONCRETE MIXER • OPERATION AND PARTS MANUAL — REV. #13 (08/02/21)

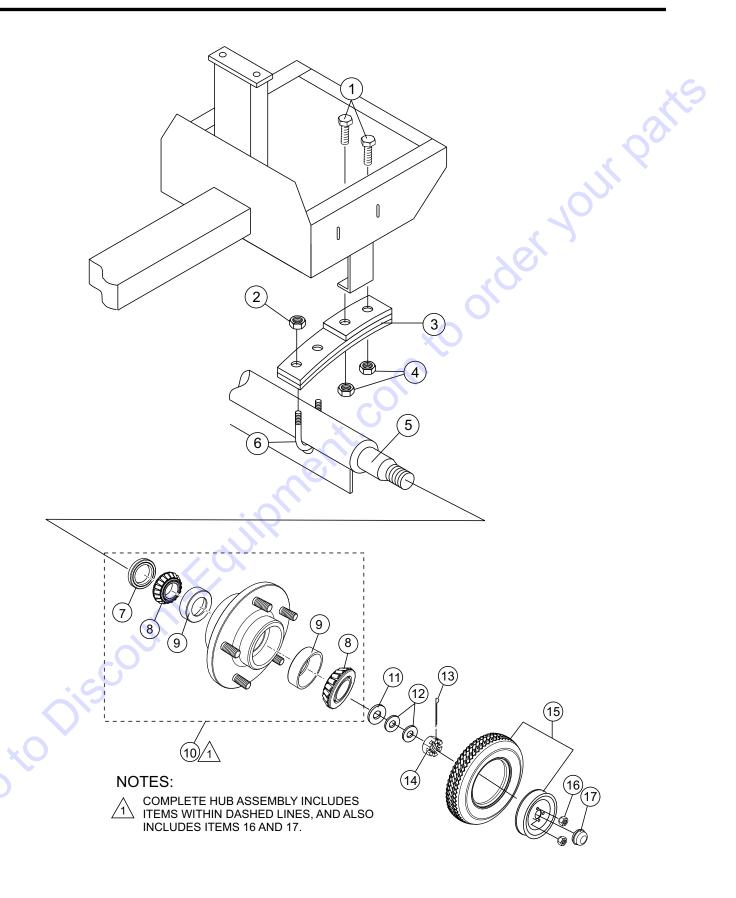
STEEL BARREL ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARK</u>
1	505390	PLUG, EXPANSION	1	
2	505469	KING PIN	1	
3	510955	SPINDLE BEARING CONE	2	
4	510956	SPINDLE BEARING CUP	2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5	514061	RING GEAR	1	
6	EM9633057	BOLT 3/8" NC 1-1/2" G5	6	
7	505473	BARREL, STEEL 9 CU. FT.	1	, 9
8	511732	SHIM 0.25 THICK	AR	
8	511729	SHIM .100 THICK	AR	
8	511730	SHIM .140 THICK	AR	10
8	511731	SHIM .187 THICK	AR	
9	EM969013	NUT, LOCK 3/8" NC	6	
10	490962	SNAP RING	2	70,
11	514515	DRIVE PINION SHAFT	1	4 O =
12	492179	BEARING, PINION SHAFT	2 2	
13	EM963692	BOLT 1/2" NC X 1-1/2" G5		<i>)</i>
14	492584	LOCKNUT, HEX 1/2" NC	2	
15	502036	HOUSING, JACKSHAFT	1	
16	491008	CAP, GREASE FITTING	3	
17	EM916001	GREASE FITTING 1/8" NPT	3	
18	500214	SQUARE KEY 1/4" X 30 MM	9 1	
19	503915	DRIVE PINION	1	
20	492467	ALLEN SCREW 5/16 NC 3/8"	1	
21	EM505472	SPACER, BARREL	1	
22	492491	SET SCREW 1/2" X 1" NC	1	
23	07037-024	NUT, HEX LOWER 1-1/2" NF	1	REPLACES EM968306
24	492406	BOLT 5/8" NC X 1-1/2" NC	1	
25	492586	LOCKNUT, HEX 5/8" NC	1	
26	510593	YOKE	1	
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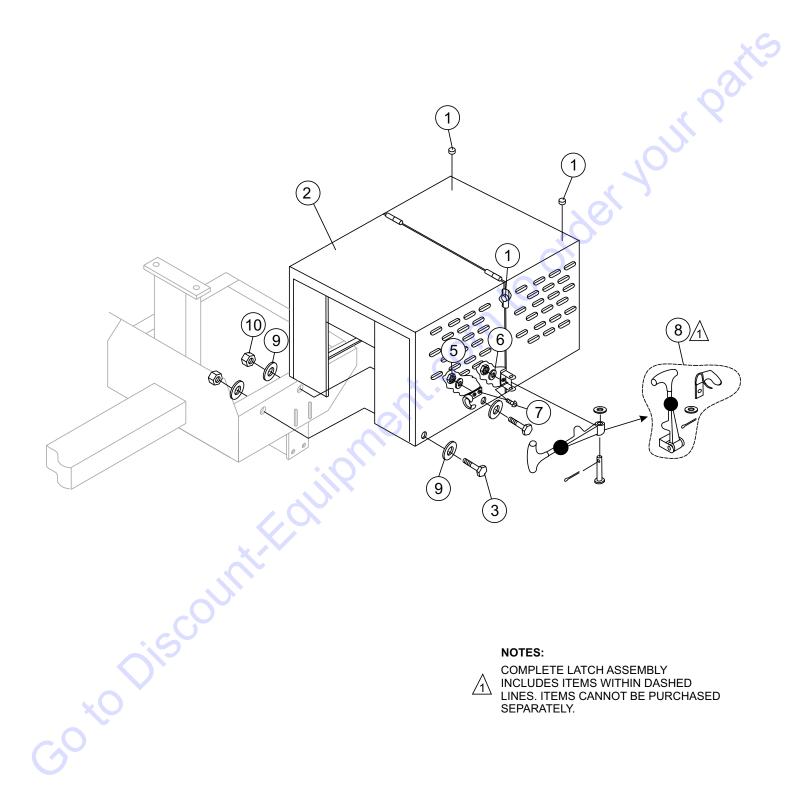
MAIN FRAME ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARK</u>
1	514245	GUARD, GEAR WHEEL	1	
2	492621	WASHER, LOCK 1/4"	4	
3	492278	ROUND HEAD BOLT 1/4" NC 3/8 G2"	4	
4	514692	DUMP GEAR	1	
5	492584	NUT, LOCK 1/2" NC	1	all bo
6	490895	DUMP LATCH	1	
7	492395	BOLT 1/2" NC X 1-3/4" G5	1	
8	EM916001	GREASE FITTING 1/8" NPT	2	
9	491008	GREASE CAP	2	
10	EM963055	BOLT 3/8" NC X 3/4" G5	3	10
11	3109092	WASHER, FLAT 3/8"	3	35 400
12	0166 A	WASHER, LOCK 3/8"	3	4)
13	514521	FRAME	1	
14	10176	LOCK NUT 1/2 NC	1	
15	EM124	BOLT 1/2"-13 X 4 G5	1	
			1	
16	514723	HANDWHEEL SHAFT HANDWHEEL	1	DEDI ACEC D/N 514000
17	501808			REPLACES P/N 514002
18*	04004	SAFETY CHAIN		DEFODE JANUARY 2000
19*	01004	CONNECTOR LINK		
19*	01004	CONNECTOR LINK		
19A*	516580	CLEVIS SAFETY HOOK, 1/4"	1	AFTER JANUARY 2006
20	490961	SNAP RING	1	
21	13363KIT	CHAIN AND LINK KIT		
22	HBC-1	BALL HITCH 2-INCH		
23	HLC-1	LOOP HITCH		
24	HPC-1	PIN HITCH 1-INCH	1 CON	ITACT DISCOUNT-EQUIPM
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AXLE ASSY.

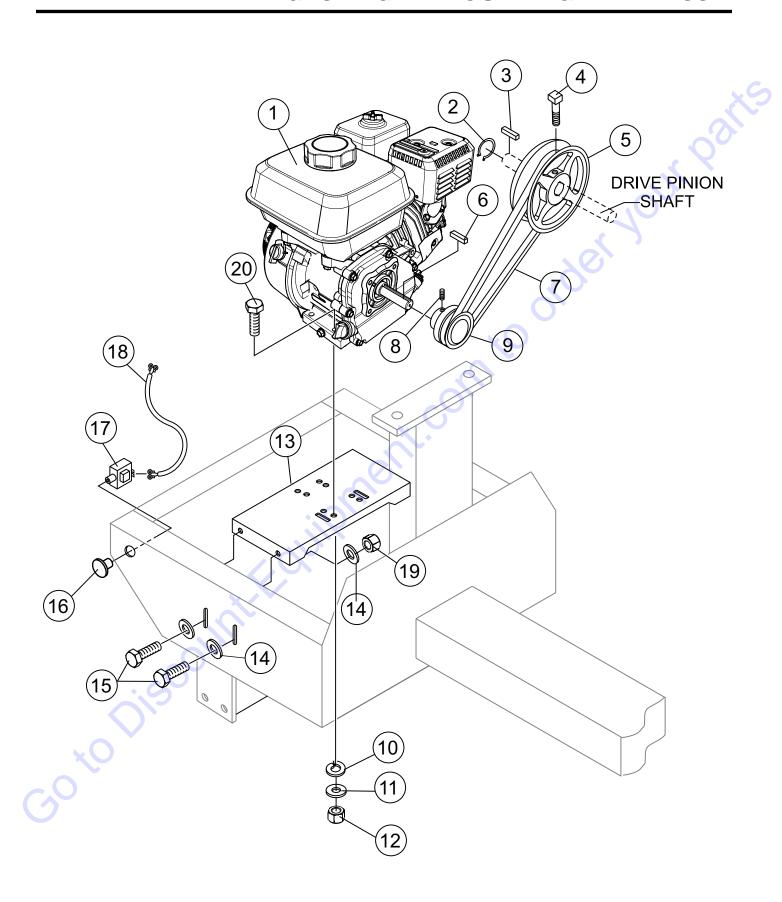
2 3 4	PART NO. 492397 492589 491928 492584	PART NAME BOLT 1/2" NC 2-1/2" G5 NUT 1/2" NF SPRING LEAF NUT, HEX 1/2"	QTY. 4 4 2 4	<u>REMARK</u>
5 6 7# 8# 9# 10 11 12 13	514545 500617 EM914288 EM903113 EM903012 EM941306 EM511159 EM501299 491688 8164	AXLE U-CLAMP OIL SEAL BEARING CONE, BEARING CUP HUB ASSY., 4-BOLT (1-1/16" SPINDLE) WASHER, FLAT, .087" THICKNESS WASHER, FLAT, .135" THICKNESS COTTER PIN 1/8" X 1-1/2' NUT, SLOTTED HEX JAM 1"-20	1 2 2 4 4 2 AR	INCLUDES ITEMS W/#
15 16# 17#	3005 8115 3469	TIRE AND RIM LUG NUTS DUST CAP	2 2 2 8 2	0
		L'Alile.		
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, X	o Disco			



CABINET ASSY.

1	PART NO.	PART NAME BURBER PROTECTOR	<u>QTY.</u>	<u>REMARKS</u>
2 3 4 5 6 7 8* 9	490202 514694 492375 EM923023 13287 2203 1307 491010 492598	RUBBER PROTECTOR ENGINE HOUSING CABINET W/DECALS BOLT 3/8" NC X 1" G5 WASHER, FLAT 5/16" LOCK NUT 8-32 WASHER, FLAT #10 RHMS 8-32 X 1/2" LATCH ASSY., COMPLETE WASHER, FLAT 3/8"	6 8 6 66 2 12	REPLACEMENT PART ONLY
10	2105164	NUT 3/8" NC G5	6	400
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			×O'	
		Mentio		
		Jil Pinenti.		
		JINT: EQUIPMENT.		
		Junit Folilon Properties		
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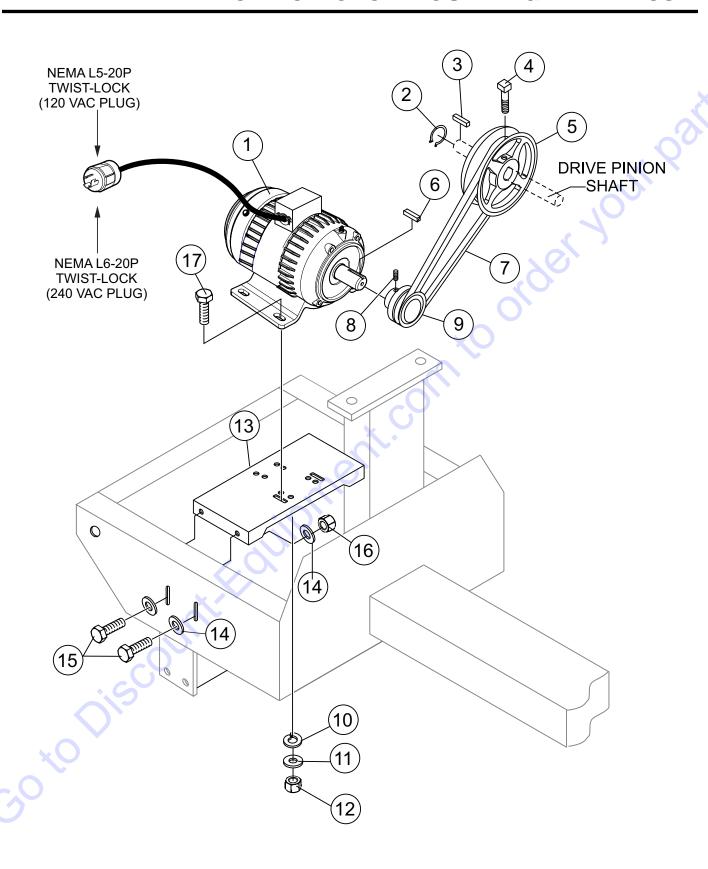
GAS ENGINE MOUNTING PLATE ASSY.



GAS ENGINE MOUNTING PLATE ASSY.

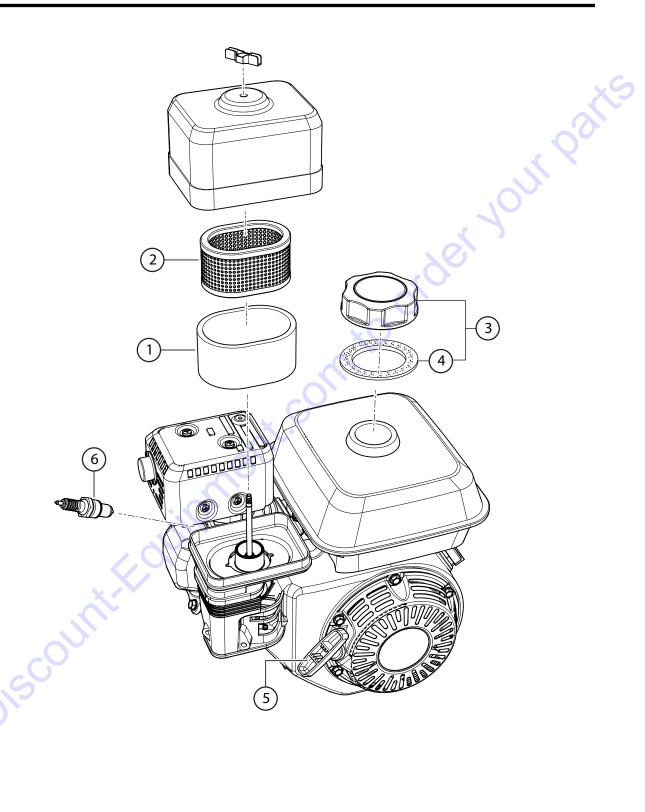
1 2	01/0/01/17/01	PART NAME	QTY.	REMARKS
_	GX240UT1QA2 490956	ENGINE, HONDA 8.0 HPSNAP RING	1 1	REPLACES GX240K1QA2 E
3	500275	SQUARE KEY 1/4 X 40 MM	1	
4	492468	SET SCREW 5/16" NC X 3/4"	1	
5	514060	UPPER PULLEY	1	
6	90745ZE2600	SQUARE KEY 6.3 X 6.3 X 43 MM 8.0 HP	1	5.0
7	493399 492468	V-BELT B-55 8.0 HP ALLEN SCREW 5/16" NC X 3/8"	1	4 4
8 9	504075	DRIVE PULLEY 8.0 HP	1	
10	EM923343	WASHER, LOCK 5/16"	4	10
11	EM923023	WASHER, FLAT 5/16"	4	
12	2105164	NUT, HEX 5/16 X18 NC G5	4	
13 14	514810 492600	BASE PLATE, ENGINE WASHER, FLAT 1/2"	1 8	
15	EM963692	BOLT, HEX 1/2" NC 1-1/2" G5	0 4	
16	29174-001	BUTTON, STOP	1)
17	29173-001	SWITCH, STOP	_1	
18	510573C	ENGINE CABLE HARNESS	1	
19	492584	LOCKNUT 1/2"	4	
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ELECTRIC MOTOR MOUNTING PLATE ASSY.



ELECTRIC MOTOR MOUNTING PLATE ASSY.

14 492600 WASHER, FLAT 1/2" 8 15 EM963692 BOLT, HEX 1/2" NC 1-1/2" G5 4 16 492584 LOCKNUT 1/2" 4 17 492367 BOLT 5/16" X 1-3/4" G5 4	1 2 3 4 5 6 7 8 9 10 11 12 13	PART NO. P145K17DB45A 490960 500275 492476 514060 500169 512265 492468 514923 EM923343 EM923023 2105164 514810	PART NAME MOTOR, ELECTRIC 1.5 HP SNAP RING SQUARE KEY 1/4" X 40 MM SET SCREW 5/16" NC X 3/4" UPPER PULLEY SQUARE KEY 3/16" X 50 MM V-BELT B-59 ALLEN SCREW 5/16" NC X 1/2" DRIVE PULLEY WASHER, LOCK 5/16" WASHER, FLAT 5/16" NUT, HEX 5/16 X18 NC G5 BASE PLATE, ENGINE	QTY. 1 1 1 1 1 1 4 4 4	REMARKS
alipholic Collination of the Col	14 15 16	492600 EM963692 492584	WASHER, FLAT 1/2" BOLT, HEX 1/2" NC 1-1/2" G5 LOCKNUT 1/2"	4	olo
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ENGINE SERVICE PARTS

1 2♣ 2♦ 3♣ 3♦ 4% 4\$	PART NO. 17218ZE2505 17210ZE2515 17210ZE2822 17620ZH7023 17620Z4H020 17631ZH7003 17631ZOT801	PART NAME FILTER, OUTER AIR CLEANER ELEMENT AIR CLEANER ELEMENT (DUAL) TANK CAP TANK CAP GASKET GASKET		
5 6	28462ZE2W11 9807956855	ROPE, RECOIL SPARK PLUG, DENSO	1 1	
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