PARTS AND OPERATION MANUAL



JUT Parts

PLASTER/MORTAR MIXE R

MS30H (Steel-Gasoline) **MS30E** (Steel-Electric) Effective S/N SEC55001

Revision #4 (08/10/06)



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A WARNING **A**

your parts

CALIFORNIA — Proposition 65 Warning

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

- Leadfrom lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: <u>ALWAYS</u> work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

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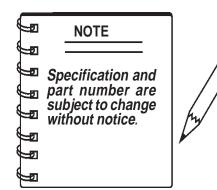
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HONDA GX240K1HA2 ENGINE

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MS-20 MIXER — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF <u>OTHERS</u>!

Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.

NOTE

This Owner's Manual has been developed to provide complete instructions for the safe and efficient operations of the **MQ STOW** *mortar* and *plaster* mixer. Refer to the engine manufacturers instructions for data relative to its safe operation.

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

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: **DANGER**,



DANGER: You WILL be KILLED or SERIOUSLY injured if you do not follow directions.



WARNING: You **CAN** be **KILLED** or SERIOUSLY injured if you do not follow directions.



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

HAZARD SYMBOLS



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

Explosive Fuel



Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids. **DO NOT** fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well-ventilated areas and away from sparks and flames. **NEVER** use fuel as a cleaning agent.

Burn Hazards



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

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MS-20 MIXER — SAFETY MESSAGE ALERT SYMBOLS

Accidental Starting



ALWAYS place the ON/OFF switch in the OFF position, disconnect the spark plug lead before servicing the engine or equipment. Ground the lead to prevent sparks that could ignite a fire.

Sight and Hearing hazard





ALWAYS wear approved respiratory protection.

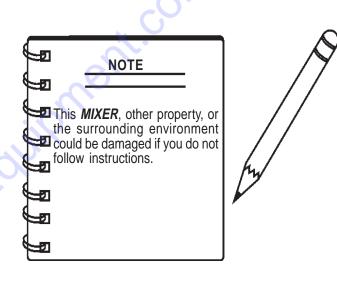
Equipment Damage Messages



50 to Discount

ALWAYS wear approved *eye* and *hearing* protection.

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



MS30H/MS30E MIXER — RULES FOR SAFE OPERATION

CAUTION:



Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the MS30H/MS30E mortar and plaster mixers:

GENERAL SAFETY

DO NOT operate or service this equipment before reading this entire manual.



- This equipment should not be operated by persons under 18 years of age.
- NEVER operate this equipment without proper protective clothing, shatterproof glasses, steeltoed boots and other protective devices required by the job.
- NEVER operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- NEVER operate this equipment under the influence or drugs or alcohol.



- ALWAYS check the machine for loosened threads or bolts before starting.
- ALWAYS wear proper respiratory (mask), hearing and eye protection equipment when operating the mixer.



- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacture does not assume responsibility for any accident due to equipment modifications.
- NEVER use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- NEVER touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or mixer.
- High Temperatures Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot!* components can cause serious burns.
- The engine section of this mixer requires an adequate free flow of cooling air. NEVER operate the mixer in any enclosed



or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the mixer or engine and may cause injury to people. Remember the mixer's engine gives off **DEADLY** carbon monoxide gas.

ALWAYS refuel in a well-ventilated area, away from sparks and open flames.



■ ALWAYS use extreme caution when working with flammable liquids. When refueling, stop the engine and allow it to cool. DO NOT_<u>smoke</u> around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.

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

MS30H/MS30E MIXER — RULES FOR SAFE OPERATION

- Stop the engine when leaving the mixer unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- ALWAYS stop the engine before servicing, adding fuel and oil.
- NEVER Run engine without air filter. Severe engine may occur.
- ALWAYS service air cleaner frequently to prevent carburetor malfunction.
- ALWAYS be sure the operator is familiar with proper safety precautions and operations techniques before using mixer.
- 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.
- DO NOT operate this equipment unless all guards and safety devices are attached and in place.
- CAUTION must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- When towing, an adequate safety chain must be fastened to the frame, refer to page 19.
- Keep all *inexperienced* and *unauthorized* people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.
- Check all fasteners periodically for tightness. Also check towing tongue bolt, lock nut and wheel lug nuts for wear.
- Stop the engine and disconnect the spark plug before allowing anybody's hands in the mixing drum.
- NEVER pour or spray water over the engine or electric motor.
- ALWAYS stand clear of dump handle when mixer is in operation. Any binding of material between the mixer blades and drum will cause drum and handle to quickly move in the discharge position.
- Depending on type of mixer, test the ON/OFF switch for either the gasoline engine or electric motor before operating. The purpose of these switches is to shut down the engine or motor of the mixer.
- Refer to the HONDA Engine Owner's Manual for engine technical questions or information recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.

Transporting

- ALWAYS shutdown engine before transporting.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Drain fuel when transporting mixer over long distances or bad roads.

Maintenance Safety

- NEVER lubricate components or attempt service on a running mixer.
- ALWAYS allow the mixer a proper amount of time to cool before servicing.
- Keep the mixer in proper running condition.
- Fix damage to the mixer immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- DO NOT use food or plastic containers to dispose of hazardous waste.

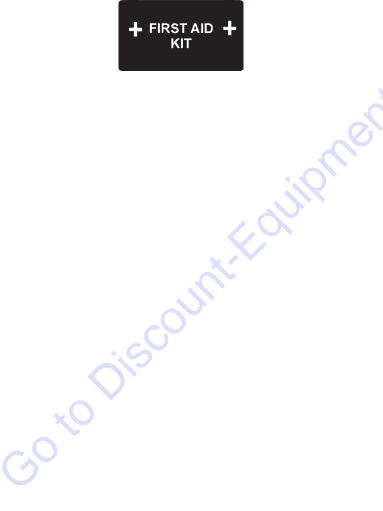
MS30H/MS30E MIXER — RULES FOR SAFE OPERATION

Emergencies

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



ALWAYS know the location of the nearest and *first aid kit*.



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







MS30H/MS30E MIXER — OPERATION AND SAFETY DECALS

Machine Safety Decals

The MQ STOW mortar and plaster mixer is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. Figure 1 below illustrates these decals as they appear on the machine. Should any of these decals become unreadable, replacements can be obtained from your dealer.

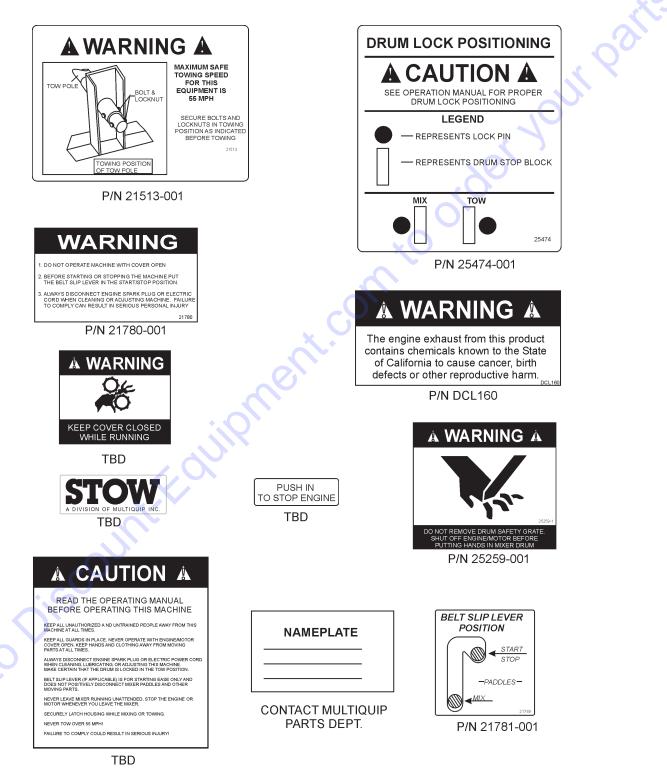


Figure 1. Mixer Operation and Safety Decals

MS30H/MS30E MIXER — SPECIFICATIONS

Table 1. MS30H/MS30E Mixer Specifications				
Capacity	9.0 cu. ft (198 liters)	×9		
Bag Capacity	2-1/2 to 3-1/2 bags			
Weight MS30H	650 lbs. (294 kg.)			
Weight MS30E	639 lbs. (290 kg.)	•		
Length w/Tow Bar x W x H	64 x 55.5 x 56 in. (162 x 141 x 142 cm.)			
Height W/Dump Handle	75 in. (191 cm.)			
Discharge Height	25 in. (63 cm.)			
Drive	V-Belt/Gear			
Dump Action	Manual			

	Table 2. Specifications (Engine & Electric Motor)				
		Model	HONDA GX240K1HA2	BALDOR 35LYS733	
		Туре	Air-cooled 4 stroke, 90 V- Twin Cylinder, OHV, Horizontal Shaft Gasoline Engine	2.0 HP, 115/230, Single Phase Electric Motor	
		Bore X Stroke	2.90 in. X 2.30 in. (73 mm x 58 mm)	N/A	
		Displacement	14.81 cc	N/A	
	Engine/Electric Motor	Max Output	8.0 H.P./3600 R.P.M.	2.0 H.P./1725 RPM	
to Disco		Fuel Tank Capacity	Approx. 1.59 U.S. Gallons (6 Liters)	N/A	
		Fuel	Unleaded Gasoline	N/A	
		Lube Oil Capacity	2-1/3 pints	N/A	
		Speed Control Method	Centrifugal Fly-weight Type	N/A	
S		Starting Method	Recoil Start	N/A	
	Dimensions (L x W x H)	14.0 x 16.9 X 16.1 in. (355 X 430 X 410 mm)	15.56 x 8.93 X 8.56 in. (395 X 226 X 217 mm)	
	Dry Net Weight		55.1 lbs. (25 Kg.)	Approx. 25 lbs. (11 Kg.)	

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GENERAL

The MQ STOW Model MS30H (Honda GX240K1) gasoline engine) and MS30E (electric motor) plaster and mortar mixers are shipped completely assembled and have been factory tested.

The drum batch capacity of these mixers is between 3.5 and 4.0 bags. With proper care, they will give continuous service year-after-year.

These mixers can be powered by either gasoline or electric motors. The shaft of the engine or electric motor is connected to a drive belt pulley which is attached to a main gear. As the main gear rotates it causes the paddle shaft to rotate.

BEFORE STARTING

Before starting the engine, read the engine owners manual and thoroughly understand the safety information.

Check the items listed below:

OIL LEVELS

Be sure to check the oil levels in the engine and engine reduction unit before starting the unit (gasoline model only).

HARDWARE

E E E

Check all hardware on the mixer before starting. Periodically inspect all hardware. Loose hardware can contribute to early component failure and poor performance. Use the torque chart below as a general guideline and keep all hardware tight:

HARDWARE DIA	TORQUE (LB./FT.)
5/16"- 18	24
3/8" - 24	37
1/2" - 13	39
1/2" - 13 (Grade 8)	90
NOTE	In accordance with our established policy of constant improvement, we

notice.

reserve the right to amend these

specifications at any time without

GASOLINE ENGINE CARE

For care and operation of the gasoline engine, refer to the engine manufacturer's operating instructions furnished with the engine. We recommend draining and refilling the engine crankcase at least every thirty hours of operation. Check the engine oil level daily.

GASOLINE MIXER OFF/ON SWITCH

This feature is on gasoline engine mixers only. Located on the side of the engine cover. The purpose of this switch is to start and stop the mixer in normal operation.

ELECTRIC MOTOR MIXER OFF/ON SWITCH

This feature is on electric motor mixers only. This switch is located on top of the motor. Lift the engine cover to gain access to this switch. The purpose of this switch is to start and stop the mixer in normal operation. **NEVER** use the electric motor in an explosive environment.

ENGINE THROTTLE AND CHOKE CONTROLS

Please refer to the engine owners manual for specific instructions.

MS30H/MS30E MIXER — BASIC ENGINE COMPONENTS

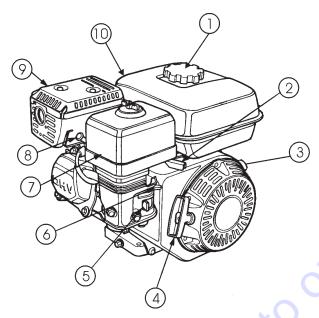


Figure 2. Engine Controls and Components

6.

INITIAL SERVICING

The engine (Figure 2) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturers Engine manual for instructions & details of operation and servicing.

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



WARNING

Adding fuel to the tank should be accomplished only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill,

DO NOT attempt to start the engine until the fuel residue has been completely wiped up, and the area surrounding the engine is dry.

- Throttle Lever Used to adjust engine RPM speed (lever advanced forward SLOW, lever back toward operator FAST).
- 3. Engine ON/OFF Switch ON position permits engine starting, OFF position stops engine operations.
- 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.

Jer your parts

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

NOTE

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

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

WARNING

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas

while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.

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

MS30H/MS30E MIXER — ELECTRIC MOTOR

Electric Motor

For maintenance 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 a explosive environment.

The electric motor used in this mixer is a single-phase 1.5 HP motor. The input voltage requirement for this motor is either 115 or 230 VAC only.

Electric Motor Connection

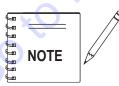
A 12 inch electrical cable (Figure 2) with a pigtail at one end is provided with the electrical motor for hookup to a power source. Table 1. shows the required NEMA connector for the desired motor horsepower rating. In addition, Table 2 also shows the matching NEMA approved connector for the required extension cord.

ALWAYS, make certain that the power source required for the electric motor is **correct** and always use the correct NEMA configuration plug. **Failure** to supply the correct voltage to the motor can severely damage the motor.

The motor supplied is wired for 115 VAC grounded operation. Make certain that the correct size grounded (3-wires) extension cord is used. See Table 4.

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.



It is strongly recommended that all electrical wiring be done by a *licensed electrician*. Special attention should be given to the electric switch as well as

the over-and-under voltage protection devices as per regulations set forth in the local electrical safety code handbook.

Electric Motor Voltage Switch

- 1. **ALWAYS** make certain the motor switch is "**OFF**" and the power cord has been disconnected from the power source.
- Remove the voltage lock-out bolt (Figure 3). Change the position of the voltage change toggle switch from 115 VAC to 230 VAC. The mixer is factory wired for 115 VAC operation.
- 3. Replace the voltage lock-out bolt.
- Important!, when changing the input voltage to the motor from 115 to 230 VAC the *plug* on the motor power cord must also be changed. See Table 3.

Table 3. Electric Motor Wiring Information			
Motor	115-230 VAC - Single Phase		
Horsepower Rating	NEMA Plug Connector	Mating NEMA Receptacle Connector	
1.5 HP (115 VAC)	L5-20P P/N EM940537	L5-20R P/N EM940538	
1.5 HP (230 VAC)	L6-20P P/N 940539	L6-20R P/N 940540	

	Table 4. Recommended Extension Cord Sizes					
Model	Motor	Voltage	50 ft. (15.24 m)	75 ft. (22.86 m)	100 ft. (30.48 m)	200 ft. (60.96 m)
MS30E (Electric)	1.5 HP	115	No. 12	No. 10	No. 8	No. 6
		230	No. 14	No. 12	No. 12	No. 8

MS30H/MS30E MIXER — ELECTRIC MOTOR

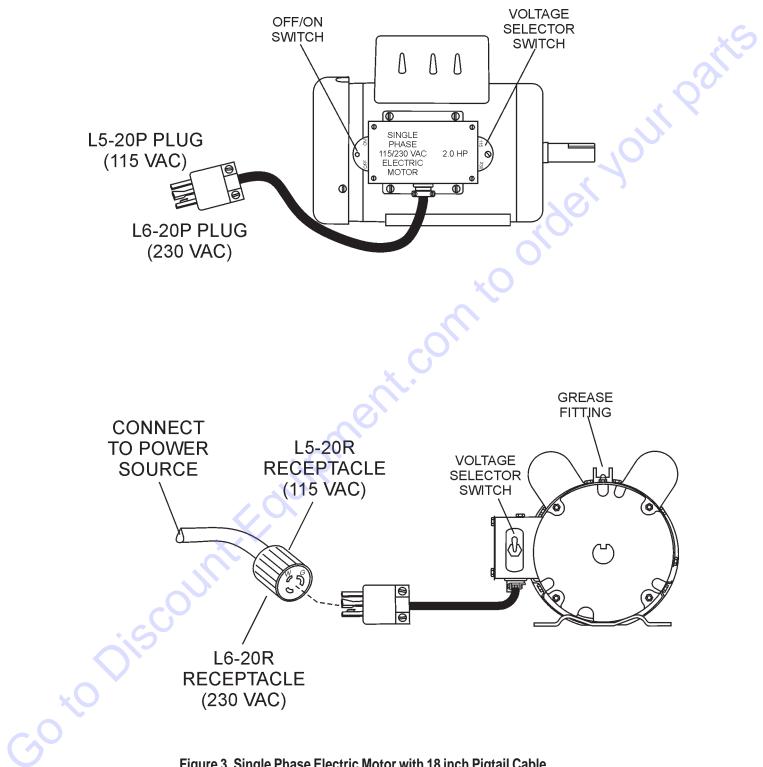


Figure 3. Single Phase Electric Motor with 18 inch Pigtail Cable

MS30H/MS30E MIXER — CONTROLS

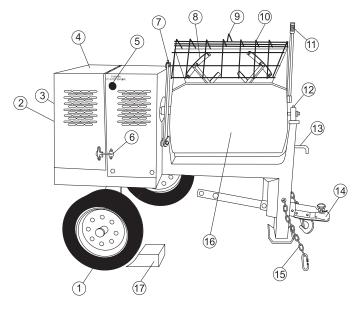


Figure 4. Mixer Components

Figure 4 illustrates the basic components and controls of the MS30H/MS30E mixer

- 1. **Tires Ply** The tire ply (layers) number is rated in letters; This mixer uses 13-inch 4-ply tires.
- Engine Cover Lift this cover to gain access to the engine compartment.
- 3. Belt Slip Lever When starting this lever should be move upward and to the left. For mixing place the lever in the down position. See attached decal located adjacent to lever.
- ON/OFF Switch (electric) This switch is provided on mixers with electric motors. To gain access to this switch, lift the engine cover. When activated it will shut down the electric motor.
- ON/OFF Switch (gasoline) This switch is provided on mixers with gasoline engines only and is located on the side of the engine cover. When activated it will shut down the engine.
- 6. **Latch**—Use this latch to secure the engine compartment cabinet.
- Safety Grill Lock Handle To prevent injury to hands and arms, the safety grill should ALWAYS be locked when the mixing of plaster or mortar is required. Also when transporting the mixer the safety grill should be locked. The safety grill should only be un-locked when cleaning of the blades and drum is required.

- 8. **Mixing Paddles** Used in the mixing of material. This unit uses four different types of paddles to provide a fast uniform mix.
- Bag Cutter—This feature allows compound mixing bags to be opened easily, therefore allowing the contents of the bag to fall directly into the mixing drum.
- Safety Grill Provided for operator safety. This safety grill is designed to keep hands and solid objects out of the mixing drum when in use. This grill should be closed at all times when mixer is in use. DO NOT remove the grill or grill opening bar. Keep the grill clean by washing it down daily.
- 11. **Dump Handle** Pull this handle downward to dump the contents of the drum. Push the handle upward to return the drum to its vertical position.
- 12. **Pivot Point/Zerk Fitting** There is, on each end of the mixing drum a zerk grease fitting. These fittings lubricate the dumping mechanism. Lubricate both fittings at least twice a week.
- 13. **Dump Handle Release Pin** Pull this pin outward (spring loaded) to release the drum, then pull down on the dump handle to place the drum in the dump position. When drum is in dump position, pin will automatically lock drum.
- 14. **Tow Bar/Coupler** This mixer uses a 2-inch coupler or pintle
- Safety Chain This mixer uses a 3/16-inch thick, 72inches long zinc-plated saftey chain. *ALWAYS* connect the safety chain when towing.
- 16. **Steel Mixing Drum** Mixing materials such as mortar, plaster are to be placed into this drum for mixing. Always clean the drum after each use.
- 17. **Chock Blocks** Place these blocks (not included as part of the mixer package) under each mixer wheel to prevent rolling.

MS30H/MS30E MIXER — TOWING GUIDELINES

Towing Safety Precautions CAUTION :



Check with your county or state safety towing regulations department before towing your *mortar and plaster mixer*.

To reduce the possibility of an accident while transporting the mixer on public roads, always make sure that the trailer 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 trailer section of the mixer is equipped with a "Safety Chain".
- ALWAYS attach mixer's safety chain to the frame of the towing vehicle.
- 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 10 MPH or less depending on type of terrain.
- Place chocked blocks underneath wheel to prevent rolling, while parked.
- Inflate tires to correct pressure, inspect tires for cuts, and excessive wear. See Table 4 (Tire Wear Troubleshooting).
- Check wheel mounting lug nuts with a torque wrench. Torque wheel lug nuts as described in the "Lug Nut Torque Requirements", Table 6.
- Check tightness of suspension hardware (nuts and bolts).

- 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.
- **DO NOT** transport mixer with fuel in the fuel tank.

CAUTION:



If the trailer coupler is deformed replace entire coupler. **NEVER** tow the pump with a defective trailer coupler. There exist the possibility of the trailer separating from the towing vehicle.

Mixer Trailer Vehicle Connection

- 1. Check the vehicle hitch ball, and trailer coupler for signs of wear or damage. Replace any parts that are worn or damaged before towing.
- Use only the 2-inch ball diameter with a towing capability of 5,000 lbs. (2,268 kg) as indicated on the trailer's 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. Be sure the coupler is secured to the hitch ball and the lock lever is down (locked).
- 4. Attach safety chains as shown in Figure 5. Remember to *cross* the safety chains underneath the towpole of the mixer.
- 5. After towing for about 50 miles recheck the entire towing system for tightness.

Recommended Maintenance

- 1. Smear ball socket and clamp face with chassis grease. Periodically oil pivot points and were surfaces of coupler with SAE 30 W motor oil.
- 2. When parking or storing the mixer, keep the coupler off the ground so dirt and other debris will not build up in the ball socket.

MS30H/MS30E MIXER — SAFETY CHAIN CONNECTION

Always Tow with a Safety Chain

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.

Reference Figure 5 for the installation of the safety chain.

Tow Bar to Mixer Connection

1. Insert the tow bar through the round opening at the bottom of the mixer stand.

Align the hole on the tow bar with the hole on the mixer frame, 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.

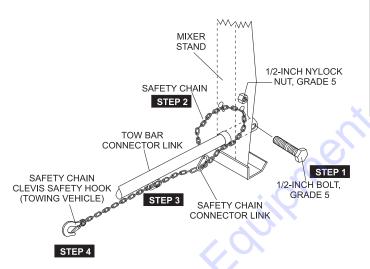


Figure 5. Mixer Safety Chain and Coupler

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2. Route the safety chain through the holes just above the tow bar, located on each side of the mixer stand.

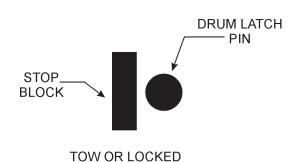
Loop the chain together and place under the tow bar. Secure the loop with the connector link.

- 3. extend the safety chain along the length of the tow bar, looping it through the tow bar's connector link. Remove any excess chain slack.
- 4. Connect the free end of (clevis safety hook) the safety chain to the towing vehicle. 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.

A CAUTION

Drum Saftey when Towing

DO NOT tow the mixer unless the mixing drum is *completely empty. ALWAYS* make sure the drum latch pin is fully engaged to the *right* (Figure 6) of the drum stop block. This will keep the drum from rotating.



POSITION Figure 6. Drum Latch Pin (Tow or Locked Position)

MS30H/MS30E MIXER — TRAILER SAFETY GUIDELINES

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.

CAUTION :



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

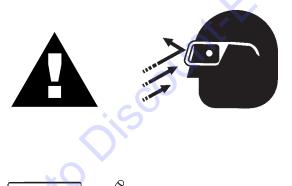
air pressure in the inter-tube may cause pieces of the rim to explode (break-off) with great force and can cause serious eye or bodily injury.



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.

Table 5 (Tire Wear Troubleshooting) will help pinpoint the causes and solutions of tire wear problems.





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

TABLE 5 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 adjust- ment and balance tires.	
	Flat Spots	Wheel lockup & tire skidding.	Avoid sudden stops when possible and adjust brakes.	

Suspension

The rigid type axle and associated hardware (Figure 7) should be periodically inspected for signs of excessive wear, elongation of bolt holes, and loosening of fasteners. Replace all damaged parts immediately.

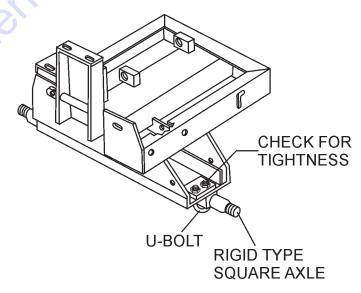


Figure 7. Axle Support Components

MS30H/MS30E MIXER — TRAILER SAFETY GUIDELINES

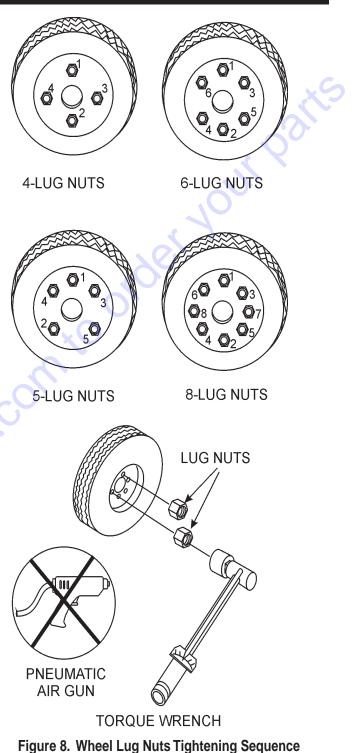
Lug Nut Torque Requirements

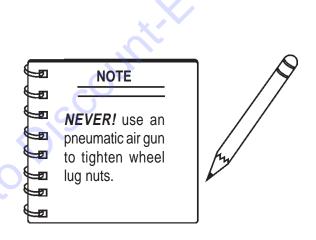
It is extremely important to apply and maintain proper wheel mounting torque on the trailer. Be sure to use only the fasteners matched to the cone angle of the wheel. Proper procedure for attachment of the wheels is as follows:

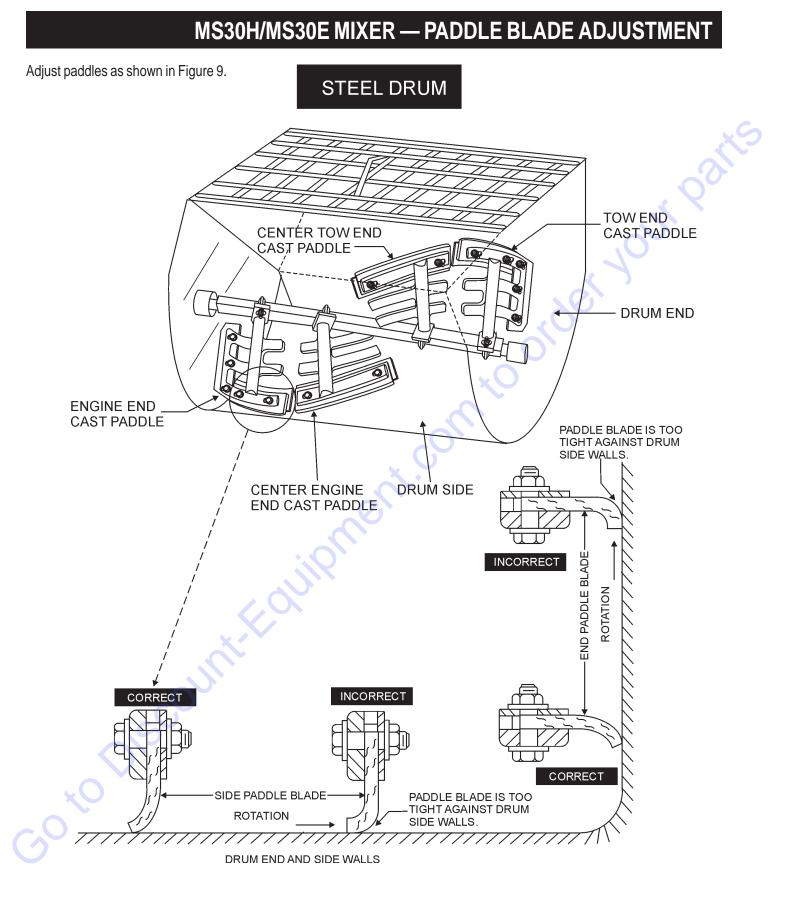
- 1. Start all wheel lug nuts by hand.
- 2. Torque all lug nuts in sequence. See Figure 8. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 6.

Table 6. Tire Torque Requirements				
Wheel Size	First Pass FT-LBS	Second Pass 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	

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









MS30H/MS30E MIXER — PRE-INSPECTION

CAUTION



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

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



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

It is recommended that the mixer's *kill switch* be used to stop the engine after every use. Doing this will verify that the switch is working properly and presents no danger to the operator.

Before Starting

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

Engine Oil Check

- 1. To check the engine oil level, place the trowel on secure level ground with the engine stopped.
- Remove the filler dipstick from the engine oil filler hole (Figure 10) and wipe it clean.

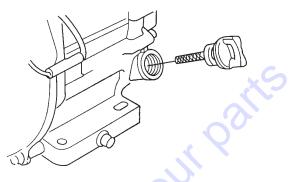


Figure 10. Engine Oil Dipstick (Removal)

- 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 11), fill to the edge of the oil filler hole with the recommended oil type (Table 7). Maximum oil capacity is 400 cc.



Reference manufacturer engine manual for specific servicing instructions.

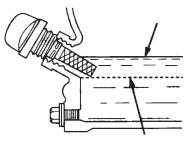


Figure 11. Engine Oil Dipstick (Oil Level)

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

MS30H/MS30E MIXER — PRE-INSPECTION







Fuel Check

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 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 trowel if the engine is *hot!* or *running*.

1. Remove the gasoline cap located on top of fuel tank.

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2. Visually inspect to see if fuel level is low. If fuel is low, replenish with unleaded fuel.



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

V-belt Check

A worn or damaged V-belt can adversely affect the performance of the mixer. If a V-belt is defective or worn simply replace the Vbelt as outlined in the maintenance section of this manual.

Blade Check

Check for worn or paddle blades. Make sure that all blades are adjusted properly. See blade adjustment procedure on page 22. Replace all defective or damaged blades immediately.

Controls

Start/Stop Switches

This mixer has been equipped with a start/stop switch for both the gasoline and electric motor mixers. These switches should be tested every time the engine or motor is started.

Lubricants

Engine Oil

- 1. Remove the engine oil dipstick from its holder.
- 2. Determine if the engine oil is low, add correct amount of engine oil to bring oil level to a normal safe level.

Grease Fittings (Zerk)

1. Check the zerk grease fittings at each end of the mixing drum. These grease fittings lubricate the dumping mechanism. If the dumping handle is stiff or hard to move lubricate these fittings.

MS30H/MS30E MIXER — INITIAL START-UP

This section is intended to assist the operator with the initial start-up of the MS-30H (gasoline) or MS30E (electric) mixer. 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.

CAUTION:



Failure to understand the operation of the MS30H/MS30E mixers could result in severe damage to the mixer or personal injury.

See Figure 4 (Page 17) for the location of any control referenced in this manual.

Starting (gasoline only)

The following steps outline the procedure for starting the engine. Depending on the type of engine employed in the mixer the steps may vary slightly. If your mixer has an electric motor disregard this section.

1. Move the fuel shut-off lever (Figure 12) to the ON position.

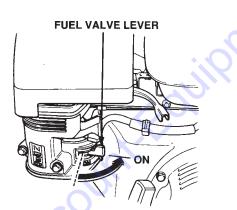


Figure 12. Fuel Shut-OFF Lever

2. To start a cold engine, move the choke lever (Figure 13) to the **CLOSED** position.

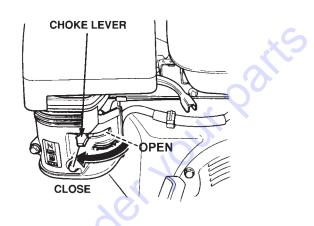
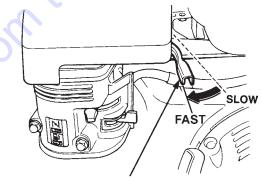


Figure 13. Choke Lever

3. Move the throttle lever (Figure 14) away from the slow position, about 1/3 of the way toward the fast position.



THROTTLE LEVER Figure 14. Throttle Lever

MS30H/MS30E MIXER — INITIAL START-UP

4. Turn the engine switch (Figure 15) to the ON position.

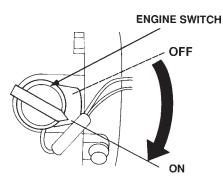


Figure 15. Engine ON/OFF Switch

5. Located on the engine cover is the main *start/stop* switch (Figure 16). Pull this switch outward to start the engine.

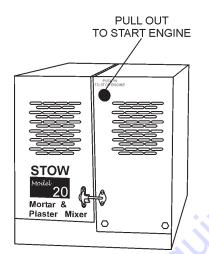
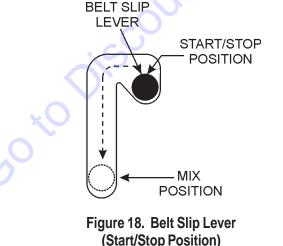


Figure 16. Start/Stop Switch (gasoline)

6. Place the belt slip lever (Figure 17) in the *START/STOP* position.



CAUTION:



Make certain the *drum lock pin* (Figures 18 and 19) is placed to the *right* (when viewing the mixer from the towpole end) of the drum stop block which is welded to the front side of the drum. Also make sure lock pin is fully engaged (locked). This will prevent the drum

from tipping.

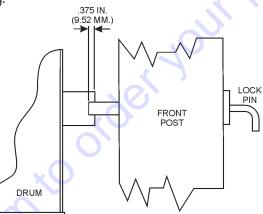
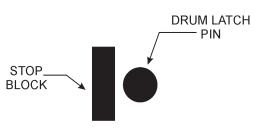


Figure 19. Drum Lock Pin (Side-View)



TOW OR LOCKED POSITION

Figure 19. Drum Lock Pin (Right Position)

7. Pull the *starter grip* (Figure 20) lightly until you feel resistance, then pull briskly. Return the starter grip gently.

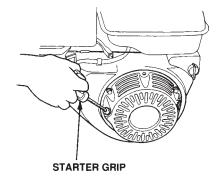
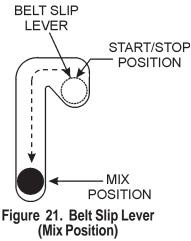


Figure 20. Starter Grip

MS30H/MS30E MIXER — INITIAL START-UP

8. Place the belt slip lever (Figure 21) in the *mix* position. This will tilt the engine placing tension on the V-belts enabling the shaft to rotate.



Starting (electric only)

- Using an adequate size extension cord (see Table 4), 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.
- 2. Set the electric motor's **ON/OFF** switch (Figure 3) to the **ON** position.

Mixing Dumping

- 1. The paddle shaft inside the drum should be rotating at this time.
- 2. Lift the mixing bag compound onto the steel grate over the bag cutter and let the contents fall into the drum.
- 3. Add water, and mix compound to desired consistency.
- 4. When charging, mixing, or dumping a batch of plaster or mortar the *drum lock pin* should be placed to the *left* (when viewing the mixer from the towpole end) of the drum stop block which is welded to the front side of the drum. See Figure 22.

This will allow the operator to use both hands on the drum handle during dumping. Please note that when the lock pin is placed to the left, the drum will only rotate in a clockwise direction. When the dump handle is released, the drum will return to an upright position.

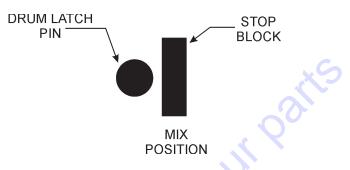
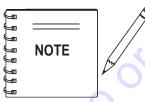


Figure 22. Drum Lock Pin (Left Position)



Be sure to stand clear of the *dump handle* when the mixer is operational. Any binding of material between the mixer

blades and the drum will cause the drum handle to move to the discharge position, thus causing bodily harm.

Starting (electric only)

- Using an adequate size extension cord (see Table 4), 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 source.
- 2. Set the electric motor's ON/OFF switch (Figure 3) to the **ON** position.

STOPPING THE MIXER (gasoline)

- 1. Place the *belt slip lever* in the *start/stop* position.
- 2. Push the main *start/stop* switch (Figure 8) inward to stop the engine.
- 3. Turn the fuel shut-off valve to the **OFF** position.
- 4. Disconnect the spark plug.
- 5. Clean drum of all debris and foreign matter.

STOPPING THE MIXER (electric)

- 1. Place the electric motor's *start/stop* switch (Figure 3) in the **OFF** position.
- 2. Disconnect the electric motor's extension cord from its power source.
- 3. Clean drum of all debris and foreign matter

MS30H/MS30E MIXER — MAINTENANCE

WHEEL BEARINGS

After every 3 months of operation, remove the hub dust cap and inspect the wheel bearings. 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.") Fill the wheel hub 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.

DRUM HEAD SEAL CARE

Grease every 40 hours of operation using any grade *#1 lithium base grease*. Appy grease until visible inside of mixing tub (over grease). This will purge the seal system of contamination.

PADDLE SHAFT BEARINGS

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The paddle shafts in the MQ STOW mixers rotate in sealed ball bearings, which require no additional lubrication as they are packed and sealed at the factory.

There is, on each end of the mixing drum, an *zerk grease fitting*. Oil these fittings two or three times each week as they lubricate the dumping mechanism of the mixing drum.

CAUTION:



Failure to lubricate the zerk grease fittings two or three times a week will cause the dumping mechanism to stiffen, making the mixer hard to dump.

BEARING BRACKET

Grease the bearing bracket every month.

GEAR ALIGNMENT

The countershaft and drive pinion are mounted on a slotted base. To align gears, loosen the pillow block mounting bolts and move them until the necessary alignment has been made.

GEAR LUBRICATION

The surface of the pinion and bull gear should be very lightly greased every 250 hours. IMPORTANT! avoid over-greasing. Excess grease will accumulate contaminates and cause premature wear.

CLEANING

ALWAYS disconnect the spark plug wire before cleaning the inside of the drum.

NEVER pour or spray water over the gasoline engine or electric motor.

For consistent performance, long life and high quality mixing, *thoroughly clean* the mixer *inside* and *out* at the end of each day's operation. To prevent lumps of dried mortar from forming and contamination of future batches, do not allow a buildup of materials to form on the blades or anywhere inside the drum.

MS30H/MS30E MIXER — TROUBLESHOOTING (ENGINE)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the diagnosis based on the *Engine*, *Mixer* and *Electric Motor* Troubleshooting (Tables 8, 9 and 10) information shown below and on the proceeding pages. If the problem cannot be remedied, please leave the unit just as it is and consult or company's service department.

TABLE 8. ENGINE TROUBLESHOOTING			
SYMPTOM	POSSIBLE PROBLEM	SOLUTION	
	Inspect carburetor to see if fuel is reaching it?	Check fuel line	
	No Fuel?	Add Fuel	
	Water in fuel tank?	Flush or replace fuel tank.	
	Fuel filter clogged?	Replace fuel filter	
	Stuck carburetor?	Check float mechanism.	
Poor starting	Spark plug is red?	Spark plug is fouled. Check tranistor ignition unit.	
	Spark plug is blue-white?	Insufficient compression, injected air leaking. Carburetor jets are clogged (overflow).	
	No spark present at tip of spark plug?	Tranistor ignition unit broken, high voltage cord cracked or broke Start/Stop switch broken. Replace spark plug if fouled.	
	No oil?	Add oil as required.	
	Oil pressure alarm lamp blinks upon starting?	Check Automatic shutdown circuit "oil sensor".	
Insufficient power output "no compression"	Engine will not turn over?	Replace cylinder and piston and if necessary axel joint.	
	Cylinder head connecting bolts loose?	Tighten cylinder head connecting bolts.	
	Cylinder head gasket damaged?	Replace cylinder head gasket.	
	Malfunction of valve seat?	Re-seat valves.	
	Spark plug is loose?	Replace spark plug.	
	Worn piston rings?	Replace piston rings.	
×0×	Malfunction in air-cleaner system, air filter clogged?	Clean or replace air filter.	
Insufficient power output "compression"	Air leaking in from interface between carburetor and cylinder head?	Tighten bolts between carburetor and cylinder head. Replace cylinder head gasket.	
	Malfunction in fuel system?	Clean or replace fuel filter. Clean or replace carburetor. Check carburetor float.	

MS30H/MS30E MIXER — TROUBLESHOOTING (ENGINE)

SYMPTOM	POSSIBLE PROBLEM	SOLUTION	
Insufficient power output "compression" and overheats	Malfunction in cooling fan?	Check or replace cooling fan.	
	Air in-take filter clogged?	Clean or replace air in-take filter.	
Burns to much fuel	Over accumulation of exhaust products?	Clean and check valves. Check muffler, replace if necessary.	
	Wrong spark plug?	Replace spark plug with manufactures suggested type spark pl	
Exhaust color is continiously	Lubricating oil is wrong viscosity?	Replace lubricating oil with correct viscosity.	
"WHITE"	Worn rings?	Replace rings	
Exhaust color is continiously "BLACK"	Air cleanner clogged?	Clean or replace air cleaner.	
	Choke valve has not been set to the correct position?	Adjust choke valve to the correct position.	
	Carburetor defective, seal on carburetor broken?	Replace carburetor or seal.	
	Poor carburetor adjustment "engine runs too rich?	Adjust carburetor.	
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MS30H/MS30E MIXER — TROUBLESHOOTING (MIXER/MOTOR)

TABLE 9. MIXER TROUBLESHOOTING		
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Blades will not rotate.	Worn or defective V-belt?	Replace V-belt.
	Adjustment lever mis-aligned?	Check position of adjustment lever. Adjust if necessary.
Material leaking from drum ends.	Worn or defective paddle shaft seals?	Replace seals.
Drum difficult to discharge (tilt)	Defective or worn drum support brackets?	Apply grease to bracket or replace.
	Blades adjusted too tight.	Adjust blades until they almost touch side walls of drum.
		Conto

TABLE 10. ELECTRIC MOTOR TROUBLESHOOTING		
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
	No voltage to motor?	Check power source.
Blades will not rotate.	Defective extension cord?	Replace extension cord.
blades will not rotate.	Defective motor ON/OFF switch?	Replace switch.
	Defective motor windings?	Repair windings or replace windings.
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We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto,
Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S.
Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep,Small Line, Wanco, Yanmar

MS30H/MS30E MIXER — WIRING DIAGRAM (ELECTRIC MOTOR)

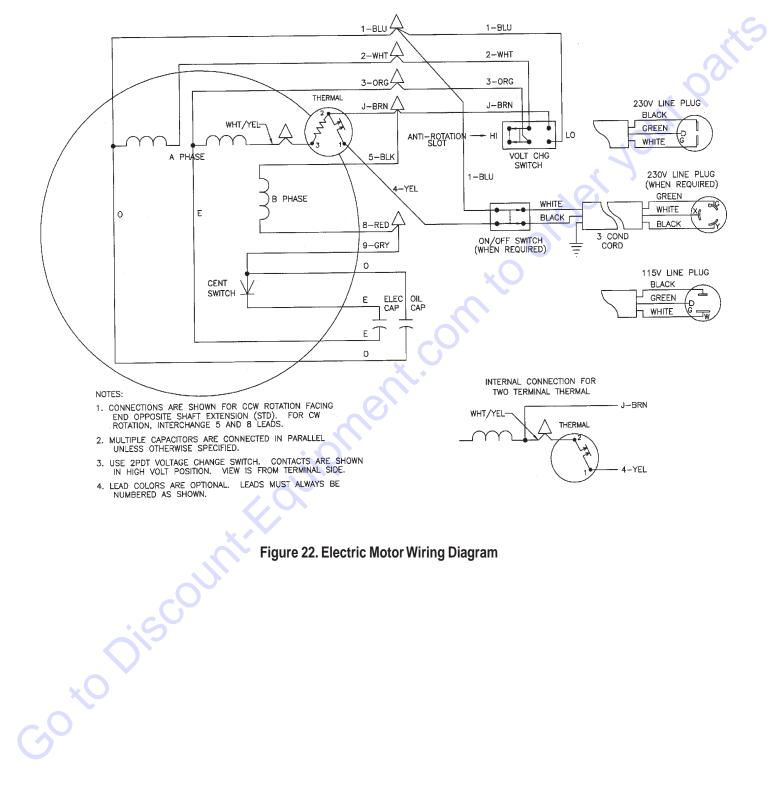


Figure 22. Electric Motor Wiring Diagram

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MQ STOW MS30H/MS30E MIXER - PARTS & OPERATION MANUAL - REV. #4 (08/10/06) - PAGE 33

EXPLANATION OF CODE IN REMARKS COLUMN

com to order your parts

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

Section 1: Items Found In the "Remarks" Column

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

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

Section 2: Items Found In the "Remarks" Column

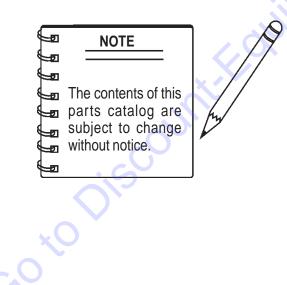
Serial Numbers-Where indicated, this indicates a serial number range (inclusive) where a particular part is used.

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

Section 3: Items Found In the "Items Number" Column

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

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



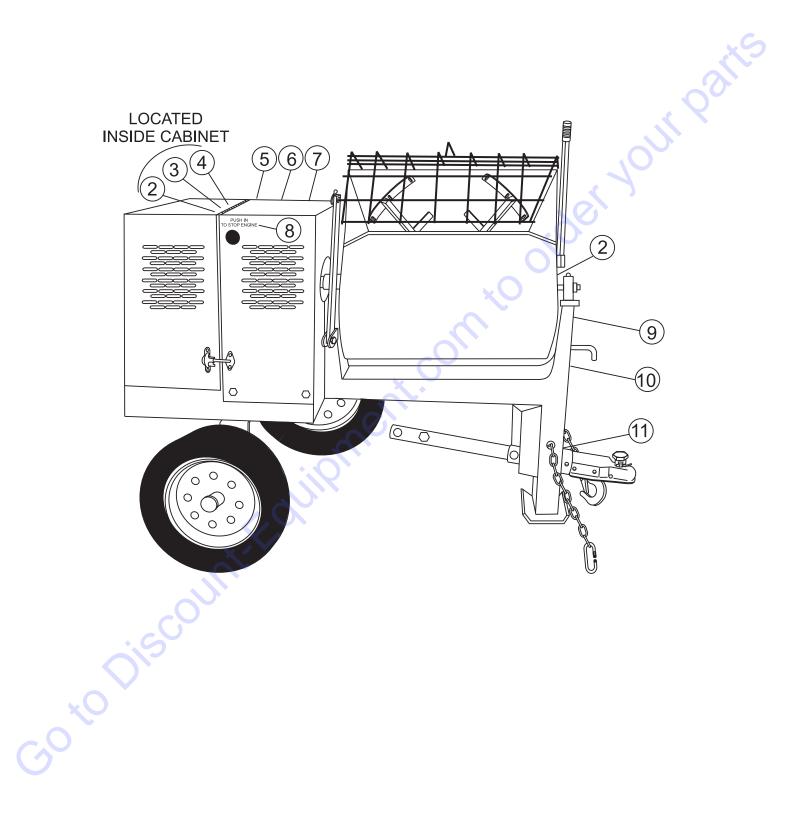
MS30H/MS30E MIXER — SUGGESTED SPARE PARTS

MS30H/MS30E MIXER 1 TO 3 UNITS WITH HONDA GX240K1HA2 ENGINE

2	Description RUBBER LATCH ASSY. V-BELT, HONDA 8.0 HP V-BELT, ELECTRIC MOTOR		A
3 17210ZE2505 .			Jr P
Ⅰ2040∠∠⊏∠₩₩	VPE, RECUL STARTER		ery
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MS30H/MS30E MIXER — NAMEPLATE AND DECALS

NAMEPLATE AND DECALS.

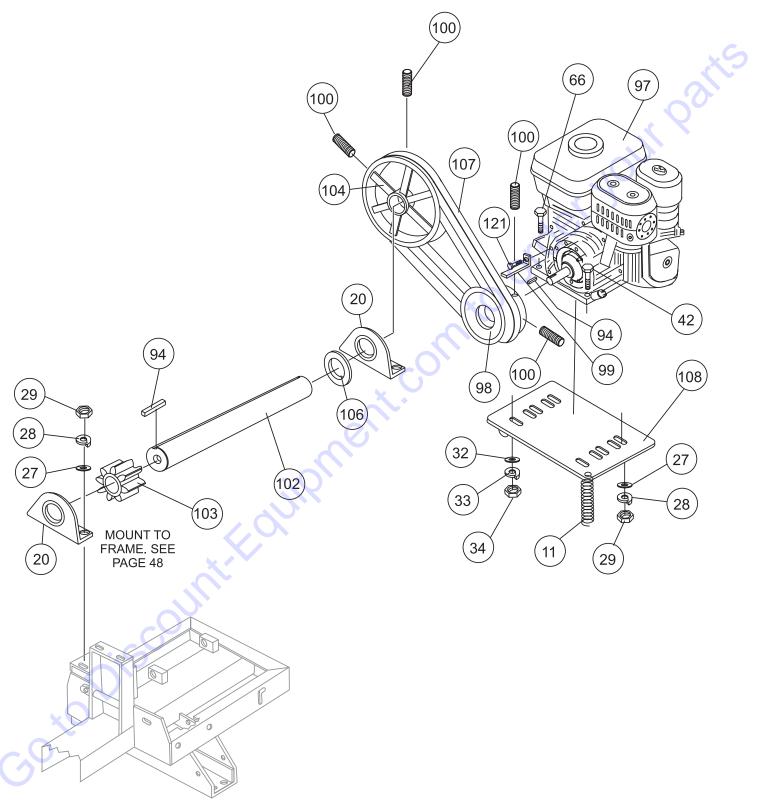


MS30H/MS30E MIXER — NAMEPLATE AND DECALS

	<u>NO</u> 2* 3* 5* 6* 7* 8* 9* 10 11*	ATE AND DECALS. PART NO TBD 21780-001 DCL160 TBD 21781-001 25259-001 TBD 25474-001 25474-001 21513-001 DCLMS20	PART NAME DECAL: STOW (MULTIQUIP) DECAL: WARNING DECAL: PROP. 65 DECAL: KEEP COVER CLOSED DECAL: CAUTION READ DECAL: BELT SLIP LEVER DECAL: WARNING GRATE DECAL: PUSH IN STOP DECAL: NAMEPLATE DECAL: CAUTION, DRUM LOCK DECAL: WARNING TOW POLE KIT, DECAL	1 1	REMARKS
	SEE DE	CAL ILLUSTRATION	NS ON PAGE 11.	.on	,0°,
			ilement.		
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			IS30E MIXER — PARTS & OPERATIC	ON MANUAL	— REV. #4 (08/10/06) — PAGE 37

MS30H/MS30E MIXER — HONDA ENGINE ASSY.

HONDA ENGINE ASSY.

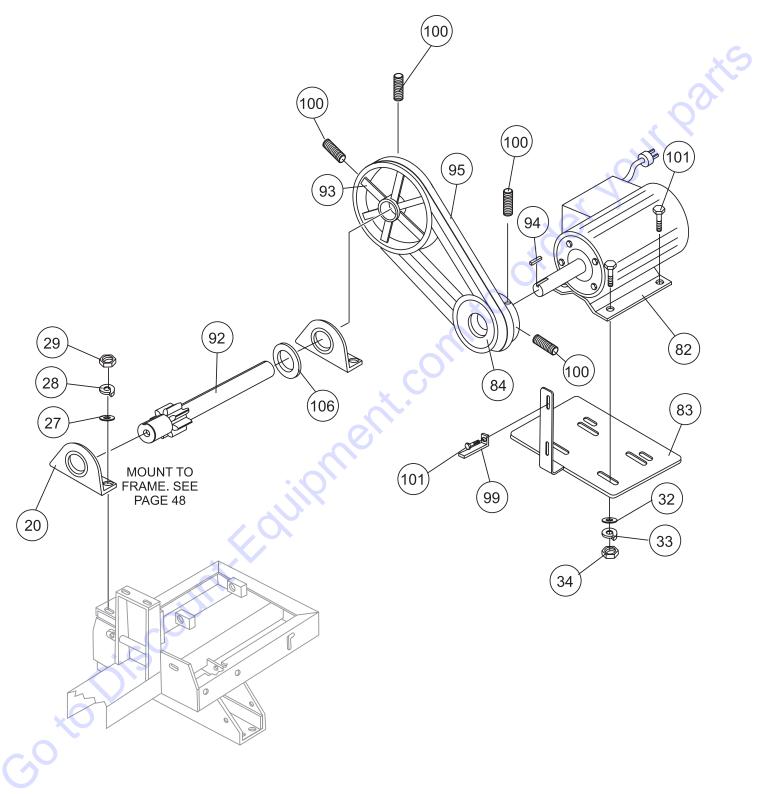


MS30H/MS30E MIXER — HONDA ENGINE ASSY.

HONDA <u>NO</u> 11 20 27 28 29 32 33 34 42 66 94 97 99 98 100 102 103 104 106 107 108 121	ENGINE ASSY. <u>PART NO</u> 20559-001 20178-001 07030-006 07029-006 07033-006 07030-005 07029-005 07029-005 07033-005 06501-014 06500-016 10057-032 GX240K1HA2 24975-001 505205 12969-008 20019-001 20022-001 492077 07030-016 07055-041 20771-354 06500-010	PART NAME POWER MOUNT SPRING PILLOW BLOCK BEARING FLAT WASHER 3/8 LOCK WASHER 3/8 HEX NUT 3/8-16 FLAT WASHER 5/16 LOCK WASHER 5/16 HEX NUT 5/16-18 CAP SCREW 3/8-16 x 1-3/4 CAP SCREW 5/16 - 18 x 2 SQUARE KEY 1/4 x 1-1/2 ENGINE- 8 H.P. HONDA BELT RETAINER BAR DRIVE PULLEY SOCKET SET SCREW 5/16-18 PINION SHAFT PINION GEAR DRIVEN PULLEY FLAT WASHER V-BELT ENGINE MOUNT CAP SCREW 5/16- 18 x 1-1/4	3 1 4 1 1 1 1 AR	
Got	MQ STOW MS30H/T	MS30E MIXER — PARTS & OPERAT	ION MANUAI	L — REV. #4 (08/10/06) — PAGE 39

MS30H/MS30E MIXER — ELECTRIC MOTOR ASSY. (ELECTRIC)

ELECTRIC MOTOR ASSY.

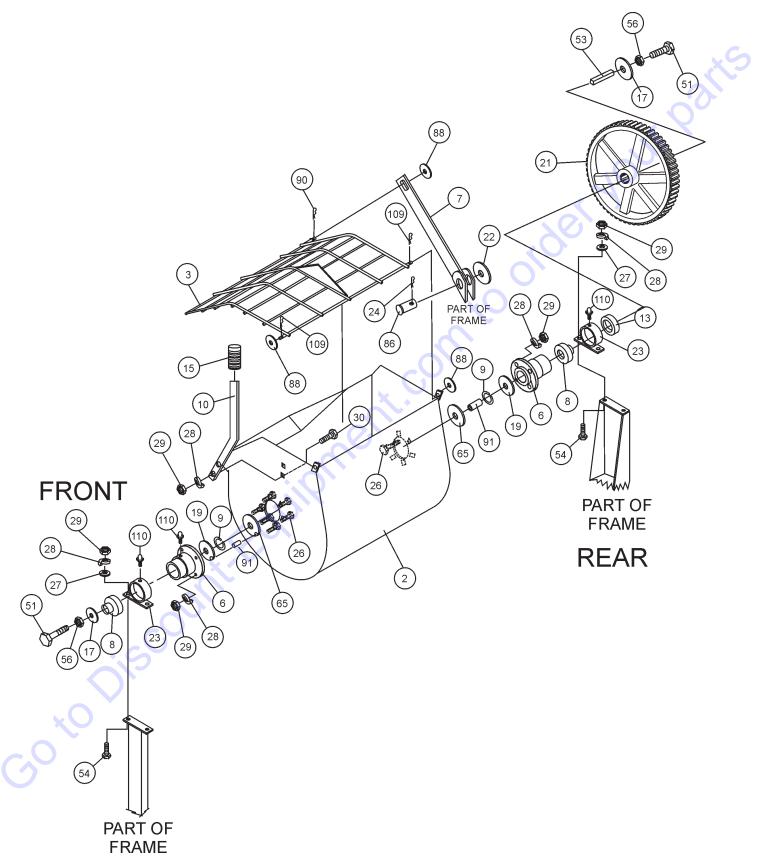


MS30H/MS30E MIXER — ELECTRIC MOTOR ASSY. (ELECTRIC)

ELECTRIC MOTOR ASSY. <u>NO PART NO</u>	PART NAME	QTY.	<u>REMARKS</u>
2020178-0012707030-0062807029-006	PILLOW BLOCK FLAT WASHER 3/8 LOCK WASHER 3/8	2 40 50	<u>د</u>
29 07033-006 32 07030-005 33 07029-005	HEX NUT 3/8-16 FLAT WASHER 5/16 LOCK WASHER 5/16	50 6 6	021
3407033-005824932068320250-352	HEX NUT 5/16-18 MOTOR & CONTROL ASSY. MOTOR MOUNT UNIT	6 1 1	JI TU
84 502213 92 20216-001 93 530088	DRIVE PULLEY PINION & SHAFT DRIVEN PULLEY	1 1 1	
94 10057-032 95 491112	SQUARE KEY 1/4 x 1-1/2 V-BELT	2	<i>de</i>
9924975-00110012969-00810106500-008	BELT RETAINER BAR SOCKET SET SCREW 5/16-18 CAP SCREW 5/16-18 x 1	1 4 5	0
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MS30H/MS30E MIXER — STEELTUB ASSY.

STEEL TUB ASSY.



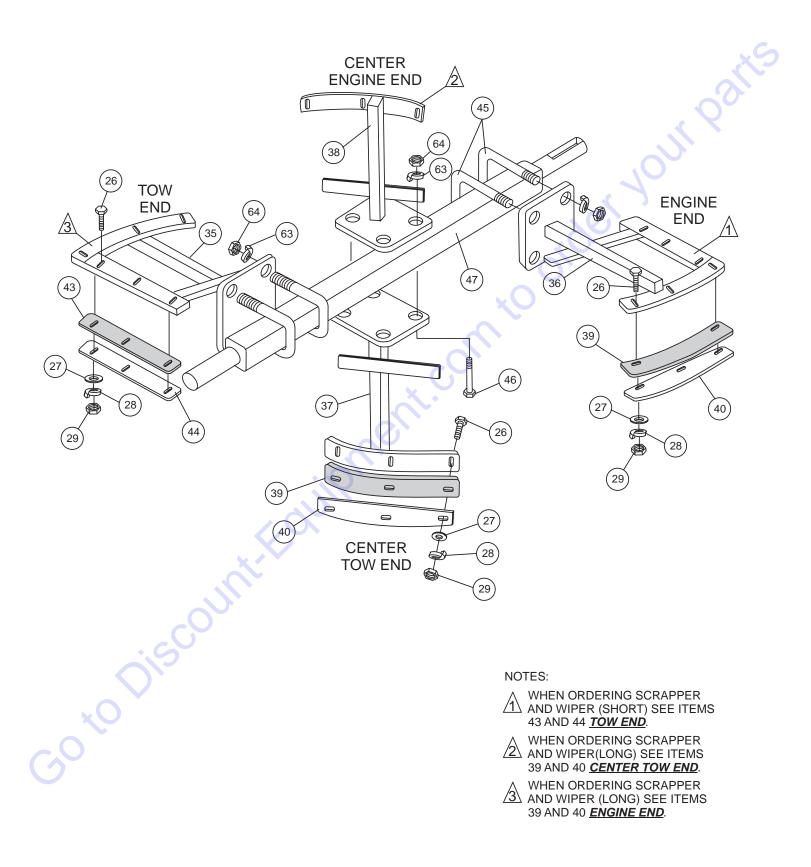
MS30H/MS30E MIXER — STEELTUB ASSY

OTEL	TUB ASSY.				
NO	<u>PART NO</u>	PART NAME	QTY.	REMARKS	
2	29283-351	DRUM			
3	29212-351	GRATE	1		
6	20657-001	TRUNNION HUB	2		5
7	27127-003	LIFT BAR	2		
8	20561-001	SEALED BEARING	2		
o 9			2		
	20655-001		2 1		
10	25492-001		1		
13	20211-001	MAIN GEAR SPACER	1		\sim
15	21380-001	DRUM HANDLE GRIP	1		O
17	18937-003	SPECIAL WASHER	2		
19	20654-001	SHAFT SEAL	2		3
21	20472-001	MAIN GEAR	1	70.	
22	08602-006	FLAT WASHER 3/8	12		
23	20576-501	DRUM BEARING ASSY.	2		
24	13698-062	HITCH PIN	1	O	
26	17985-010	CARRIAGE BOLT 3/8-16 x 1-1/4	22		ourparts
27	07030-006	FLAT WASHER 3/8	40		
28	07029-006	LOCK WASHER 3/8	50		
29	07033-006	HEX NUT 3/8-16	50		
51	06505-012	CAP SCREW 5/8 -11 x 1-1/2	2		
53	10057-034	SQUARE KEY 3/8 x 2			
54	17985-012	CARRIAGE BOLT 3/8 - 16 x 1-1/2	• 4		
56	07033-010	HEX NUT 5/8-11	1		
65	20104-001	SHAFT SEAL	2		
86	08326-007	CLEVIS PIN	1		
88	07030-008	FLAT WASHER 1/2	3		
90	13698-010	HITCH PIN	1		
91	07594-012	ROLL PIN 3/16 x 3/4	2		
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110	07745-001	GREASE FITTING	3		
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	07028-055 07745-001				

MQ STOW MS30H/MS30E MIXER - PARTS & OPERATION MANUAL - REV. #4 (08/10/06) - PAGE 43

MS30H/MS30E MIXER — PADDLE SHAFT ASSY.

PADDLE SHAFT ASSY.

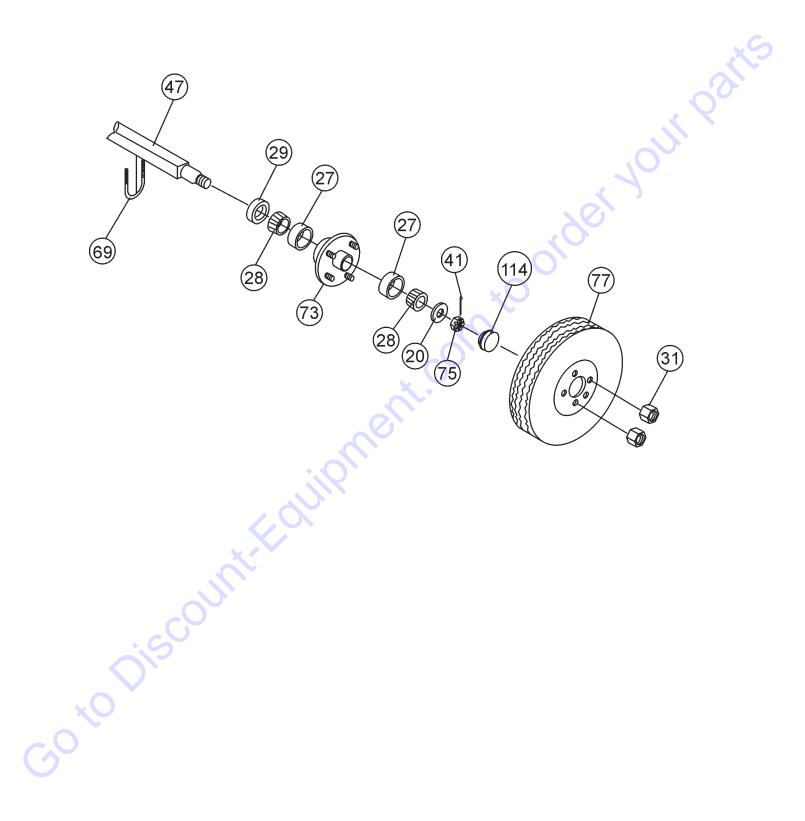


MS30H/MS30E MIXER — PADDLE SHAFT ASSY.

PADD <u>No</u> 26* 27* 28* 29* 35* 36* 37* 38* 39*# 40* 43*# 44* 45 46 47 63 64	20725-001	PART NAME CARRIAGE BOLT 3/8-16 x 1-1/4 FLAT WASHER 3/8 LOCK WASHER 3/8 HEX NUT 3/8-16 PADDLE ASSY. TOW POLE END PADDLE ASSY. ENGINE END PADDLE ASSY. CNT. TOW END PADDLE ASSY. CTN. ENG. END WIPER LONG SCRAPER LONG WIPER SHORT SCRAPER SHORT U-BOLT PADDLE MNT. CAP SCREW 1/2 -20 x 3-1/4 PADDLE SHAFT SQ LOCK WASHER 1/2 GRADE 8 HEX NUT 1/2-20 GRADE 5 PADDLE KIT	22 44 50 50 1 1 1 1 4 4 2 2 4 4 1 16 6 1.INC		ourparts
		ipment.	,O`		
Gox	odiscol				
-	MQ STOW MS30H	/MS30E MIXER — PARTS & OPERATIC	N MANUAL -	– REV. #4 (08/10/06) -	– PAGE 45

MS30H/MS30E MIXER — AXLE ASSY.

AXLE ASSY.



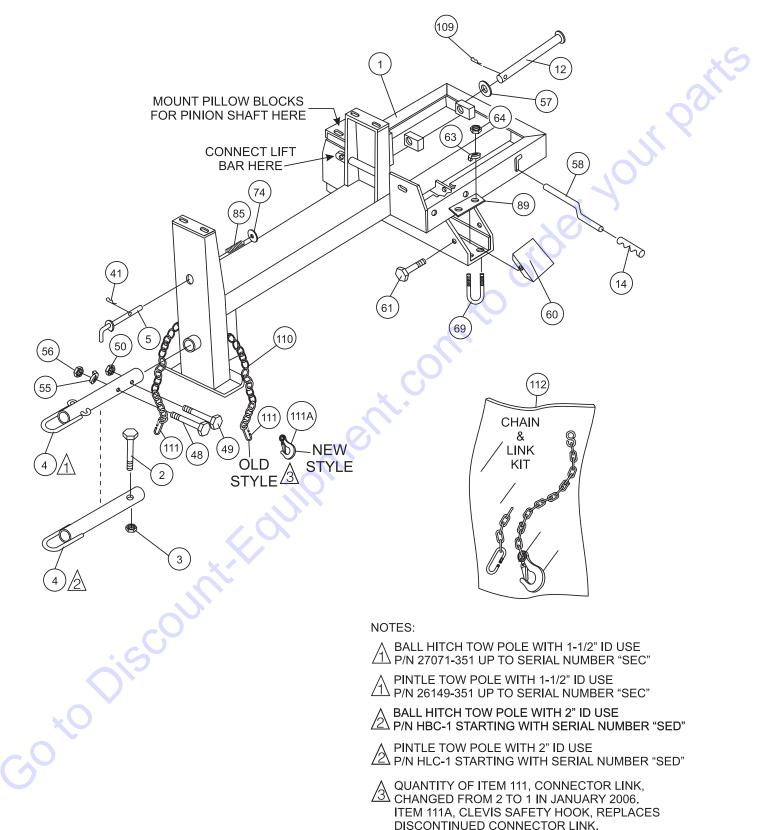
MS30H/MS30E MIXER — AXLE ASSY.

AXLE ASSY.

NO 20 27* 28 29 31 41 47 69 73 75 77 114	PART NO 507444 EM903012 EM903113 3065 8115 0183 530032 500617 EM941306 502246 3005 3469	PART NAME AXLE WASHER BEARING CUP BEARING CONE SEAL WHEEL NUT COTTER PIN 5/32 x 1-1/2 AXLE U-BOLT AXLE MNT. HUB ASSY. SLOTTED HEX NUT 1-20 WHEEL & TIRE ASSY12" DUST COVER	2 2 2	INCLU	IDES ITEM W/*
Got		S30H/MS30E MIXER — PARTS & OP		REV. #4 (08/10	0/06) — PAGE 47

MS30H/MS30E MIXER — FRAME ASSY.

FRAME ASSY.



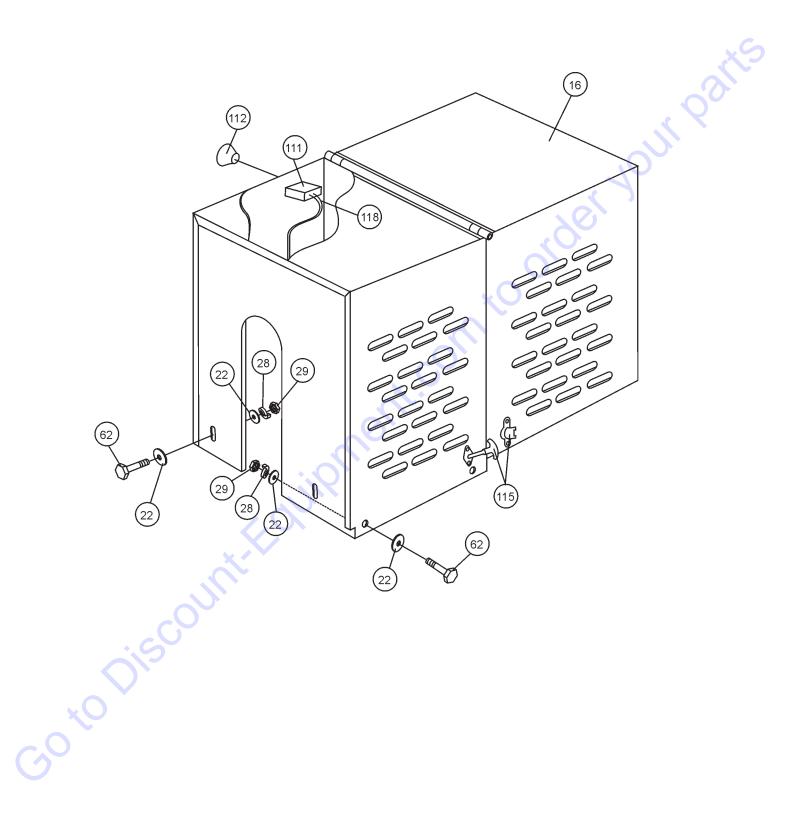
MS30H/MS30E MIXER — FRAME ASSY.

FRAME ASSY.

	4331.			
NO	PART NO	PART NAME	QTY.	REMARKS
1	29016-351	MAIN FRAME UNIT	1	
2	3215	BOLT 1/2 x 13 x 3-1/2	1	C
3	10176	NUT, NYLOCK 1/2-13	1	
4	27071-351	BALL HITCH TOW POLE 1-1/2" ID	1	UP TO S/N SEC
4	26149-351	PINTLE TOW POLE 1-1/2" ID	1	UP TO S/N SEC
4	HBC-1	BALL HITCH TOW POLE 2" ID	1	STARTING AT S/N SEE 💙
4	HLC-1	PINTLE TOW POLE 2" ID	1	STARTING AT S/N SEE
				CONTACT UNIT SALES
5	20567-352	LOCK PIN UNIT	1	
12	29277-351	ENGINE MOUNT SHAFT	1	
14	20278-001	CLUTCH HANDLE GRIP	1	, , , , , , , , , , , , , , , , , , ,
41	07028-057	COTTER PIN 5/32 x 1-1/2	3	20.
48	06505-028	CAP SCREW 5/8 -11 x 3-1/2	1	
49	06505-024	CAP SCREW 5/8 -11 x 3	1	
50	07418-010	LOCK NUT 5/8 NYLOCK	1	0
55	07029-010	LOCK WASHER 5/8	3	
56	07033-010	HEX NUT 5/8-11	1	
57	07030-010	FLAT WASHER 5/8	3	
58	22856-001	BELT SLIP LEVER	1	
60	28986-001	TRANSOM COVER	2	
61	22538-001	THD. ROLLING SCREW 1/4-20 x 1/2	4	
63	TBD	LOCK WASHER 1/2 GRADE 8	16	
64	492589	HEX NUT 1/2-20 GRADE 5	6	
69	500617	U-BOLT AXLE MNT.	2	
74	07030-012	FLAT WASHER 3/4	1	
85	25398-001	SPRING-LOCKING PIN	1	
89	29242-001	PLATE	2	
109	07028-055	COTTER PIN 5/32 x 1	2	
110#		SAFETY CHAIN	1	
111#	01004	CONNECTOR LINK	2	BEFORE JANUARY 2006
111#	01004	CONNECTOR LINK	1	AFTER JANUARY 2006
111A#	516580	CLEVIS SAFETY HOOK		AFTER JANUARY 2006
112	13363KIT	CHAIN AND LINK KIT	1	INCLUDES ITEMS W/#
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MS30H/MS30E MIXER — ENGINE COVER ASSY.

CABINET ASSY.

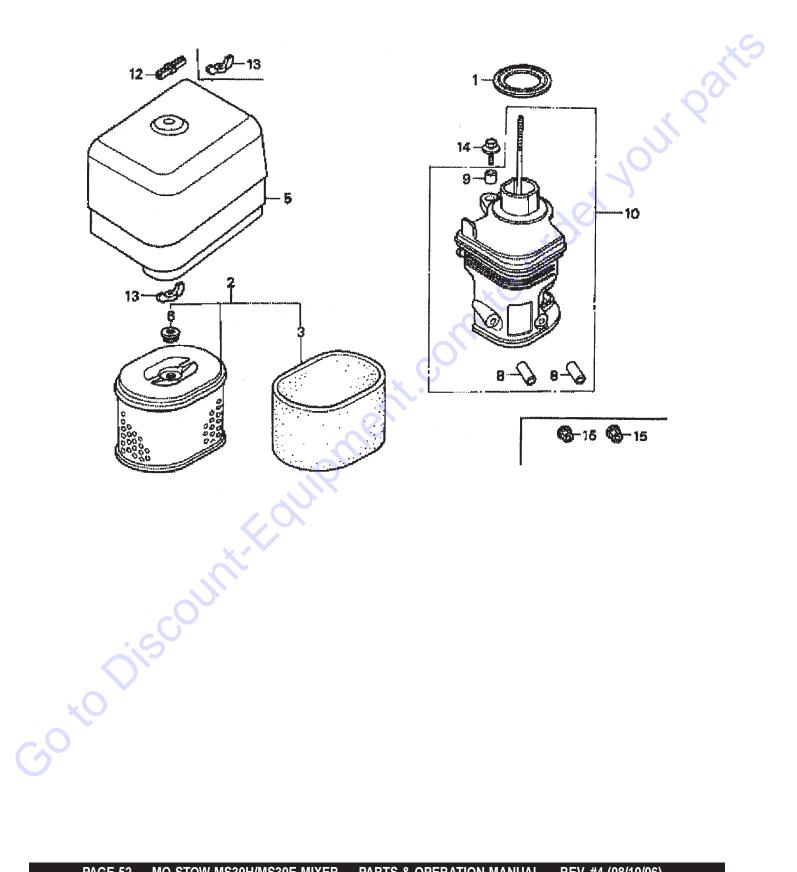


MS30H/MS30E MIXER — ENGINE COVER ASSY.

16 29280-502 ENGINE HOUSE ASSY: 1 12 0602-006 FLAT WASHER 3/8 50 28 07023-006 LOCK WASHER 3/8 50 29 07033-006 HEX NUT 3/8-16 50 62 06601-008 CAP SCREW 3/8 - 16 x 1 12 111 29173-001 STOP SWITCH 1 115 49100 LATCH ASSY, 2 118 23342-523 WIRE ASSY. GROUND LEAD 1	ENGINE COVER		PART NAME	<u>QTY.</u>	REMARKS
ent. conto order y	16 29280 22 08602 28 07029 29 07033 62 06501 111 29173 112 29174 115 49101	-502 -006 -006 -008 (-001 -001 0	ENGINE HOUSE ASSY. FLAT WASHER 3/8 LOCK WASHER 3/8 HEX NUT 3/8-16 CAP SCREW 3/8 - 16 x 1 STOP SWITCH RED KNOB LATCH ASSY.	1 12 50 50 12 1 1 2	ur part
oto Discount-Featingment.com to order	118 23342	-523	WIRE ASSY. GROUND LEAD	1H	IONDA, B & S
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HONDA GX240K1HA2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.



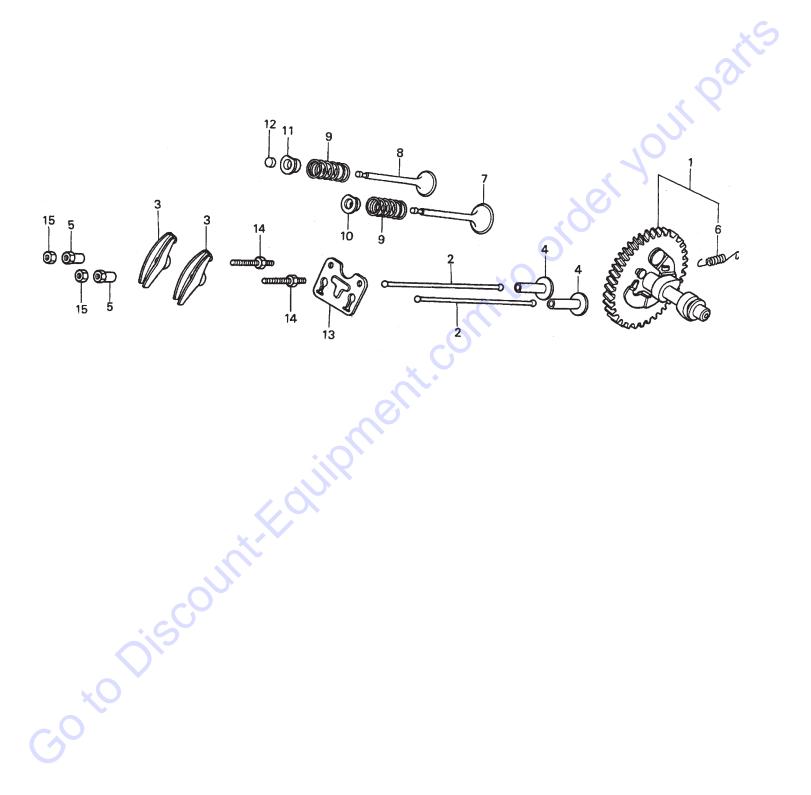
HONDA GX240K1HA2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

NO. 1 2 3 * 5 6 8 # 9 # 10 12 13 14 15	PART NO. 16271ZE2000 17210ZE2505 17218ZE2505 17231ZH9820 17232891000 17238ZE2310 17239ZE1000 17410ZE2020 90203ZA0800 90325044000 90009ZE2003 9405006000	PART NAME GASKET, ELBOW ELEMENT, AIR CLEANER, DUAL FILTER, OUTER COVER, AIR CLEANER GROMMET, AIR CLEANER COLLAR, AIR CLEANER COLLAR B, AIR CLEANER ELBOW COMP., AIR CLEANER WINGNUT 6MM WINGNUT, TOOL BOX SETTING BOLT- WASHER 6 X 22 NUT, FLANGE 6MM	1 1 1 2 1	REMARKS INCLUDES ITEM W/*
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Go	MQ STOW MS30H	/MS30E MIXER — PARTS & OPERATI	ON MANUAL — R	EV. #4 (08/10/06) — PAGE 53

HONDA GX240K1HA2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



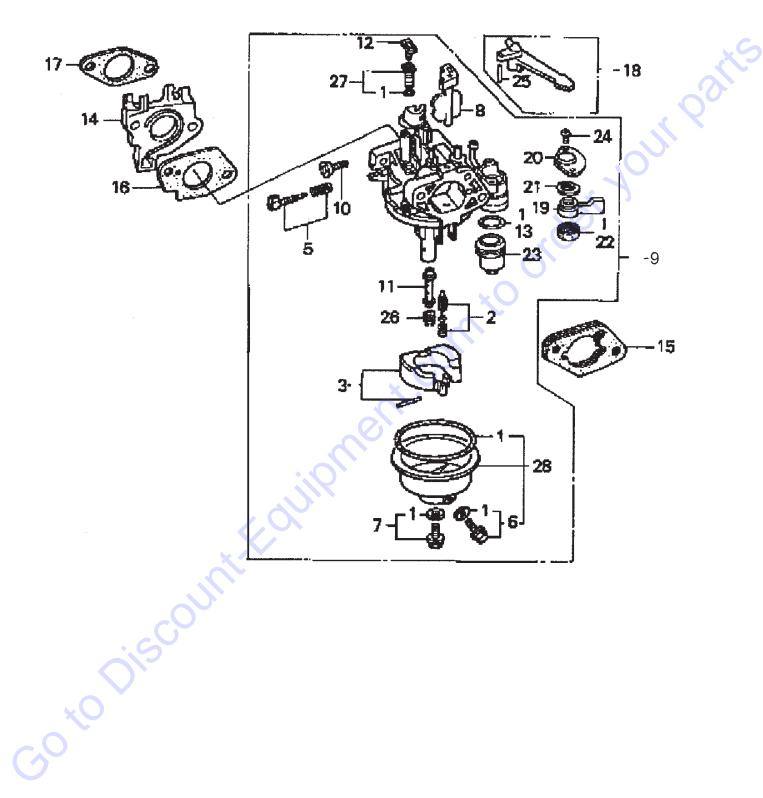
HONDA GX240K1HA2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.

NO. 1 1 2 3 4 5 6* 7 8 9 10 11 12 13 14 15	PART NO. 14100ZE2W01 14100ZE2306 14410ZE2013 14431ZE2010 14441ZE2000 14451ZE1013 14568ZE1000 14711ZE2000 14771ZE2000 14771ZE2000 14773ZE2000 14791ZE2010 90012ZE0010 90206ZE1000	PART NAME CAMSHAFT ASSY CAMSHAFT ROD PUSH ARM VALVE ROCKER LIFTER VALVE PIVOT ROCKER ARM SPRING, WEIGHT RETURN VALVE, IN. VALVE, IN. VALVE, EX. SPRING, VALVE RETAINER, IN. VALVE SPRING RETAINER, EX. VALVE SPRING ROTATOR, VALVE PLATE, PUSH ROD GUIDE BOLT, PIVOT 8MM NUT, PIVOT ADJ.	1 2 2 2 1 1 1 1 2 1 1 1 2 2 2	REMARKS	atts
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GO		/MS30E MIXER — PARTS & OPERATI	ON MANUAL — F	REV. #4 (08/10/06) — PAGE 55	

HONDA GX240K1HA2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.



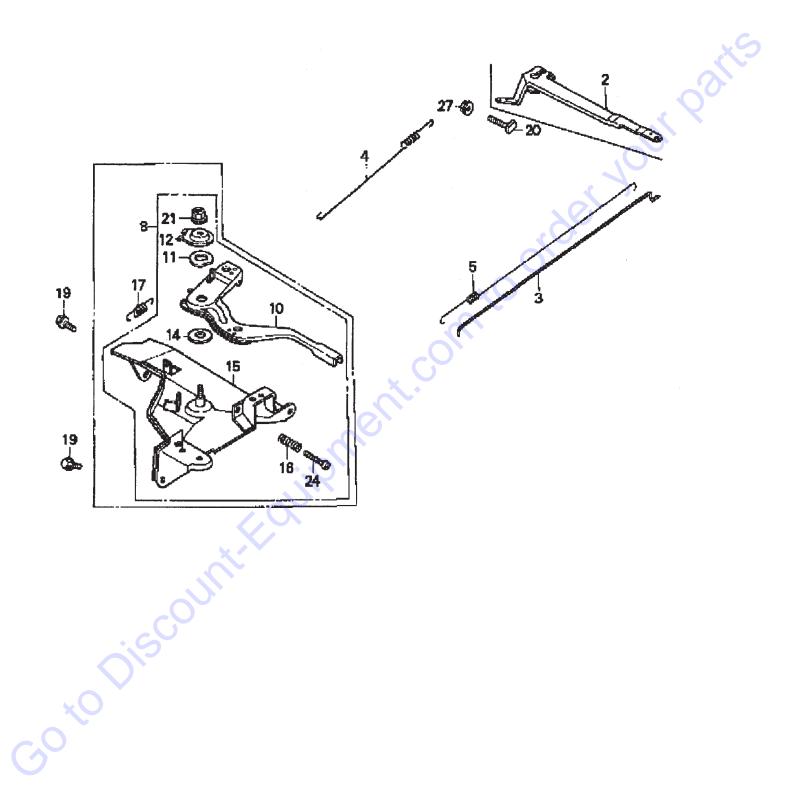
HONDA GX240K1HA2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u> 1*+	<u>PART NO.</u> 16010ZE2812	<u>PART NAME</u> GASKET SET	<u>QTY.</u> 1	REMARKS
2*	16011ZA0931	VALVE SET, FLOAT	1	
3*	16013ZA0931	FLOAT SET	1	
5*	16016ZHW01	SCREW SET	1	
6*+	16024ZE1811	SCREW SET, DRAIN	1	$\mathbf{O}^{\mathbf{V}}$
7*+	16028ZE0005	SCREW SET B	1	X X
8*	16028ZE2005	CHOKE SET	1	
9*	16100ZE2W71	CARBURETOR ASSY	1	. INCLUDES ITEMS W/*
10*	16124ZE0005	SCREW, THROTTLE STOP	1	
11*	16166ZE2W70	NOZZLE, MAIN	1	
12*	16172ZE3W10	COLLAR, SET	1	
13*	16173001004	O-RING	1	
14	16211ZE2000	INSULATOR, CARB.	1	
15	16220ZA0702	SPACER COMP., CARB.	1	O`
16	16221ZA0800	GASKET, CARBURETOR	1	
17	16223ZA0800	GASKET, INSULATOR	1	XU
18	16610ZE1000	LEVER COMP., CHOKE, STD.	1	
19*	16953ZE1812	LEVER, VALVE	1	0,
20*	16954ZE1811	PLATE, LEVER SETTING	1	
21*	16956ZE1811	SPRING, VALVE LEVER	1	
22*	16957ZE1812	GASKET, VALVE	1	
23*	16967ZE0811	CUP, FUEL STRAINER	1	
24*	93500030060H	SCREW, PAN 3 X 6	2	
25	9430520122	PIN, SPRING 2 X 12	1	
26*	99101ZH70820	JET, MAIN #82, OPTIONAL	1	
26*	99101ZH70850	JET, MAIN #85, OPTIONAL	1	
26*	99101ZH70880	JET, MAIN #88	1	
27*	99204ZE20400	JET SET, PILOT #40	1	
28*	16015ZE8005	CHAMBER SET, FLOAT	1	. INCLUDES ITEMS W/+
C.O.X.				

HONDA GX240K1HA2 ENGINE — CONTROL ASSY.

CONTROL ASSY.



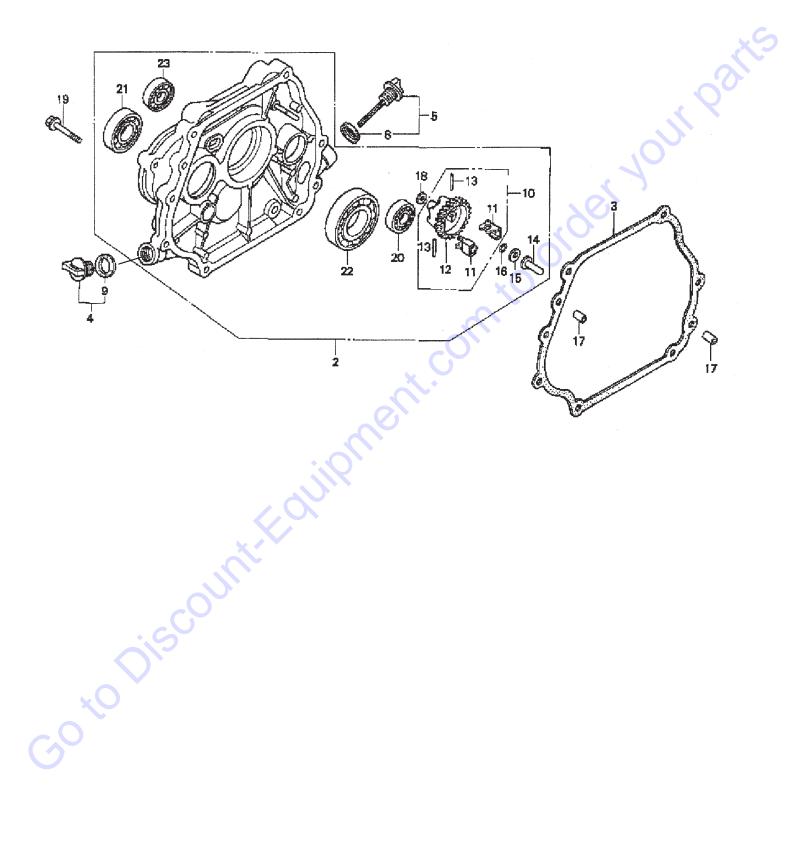
HONDA GX240K1HA2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

5010 BOLT, GOVERNOR A 0000 NUT, SELF- LOCK (6 0280A SCREW, PAN (5 X 28 000 NUT, FLANGE	SMM) 1 B) 1	order
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HONDA GX240K1HA2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



Search Website by Part Number Discount	Search Manual Library For Parts Manual & Lookup Part Numbers – Purchase or Request Quote	Can't Find Part or Manual? Request Help by Manufacturer, Model & Description
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ni Zapitrami i siya Yoni na kasarata ke tarata di katalari ganity apulartari. Na sali Ina Badu mu Parla na Asaratari ke tarata da da Katani Alaki Ying Katani katalari Ina da mu Parla na Parla Asaratari ke tarata da da taratari ya Katani kata Katani katalari	SCOL Brand	
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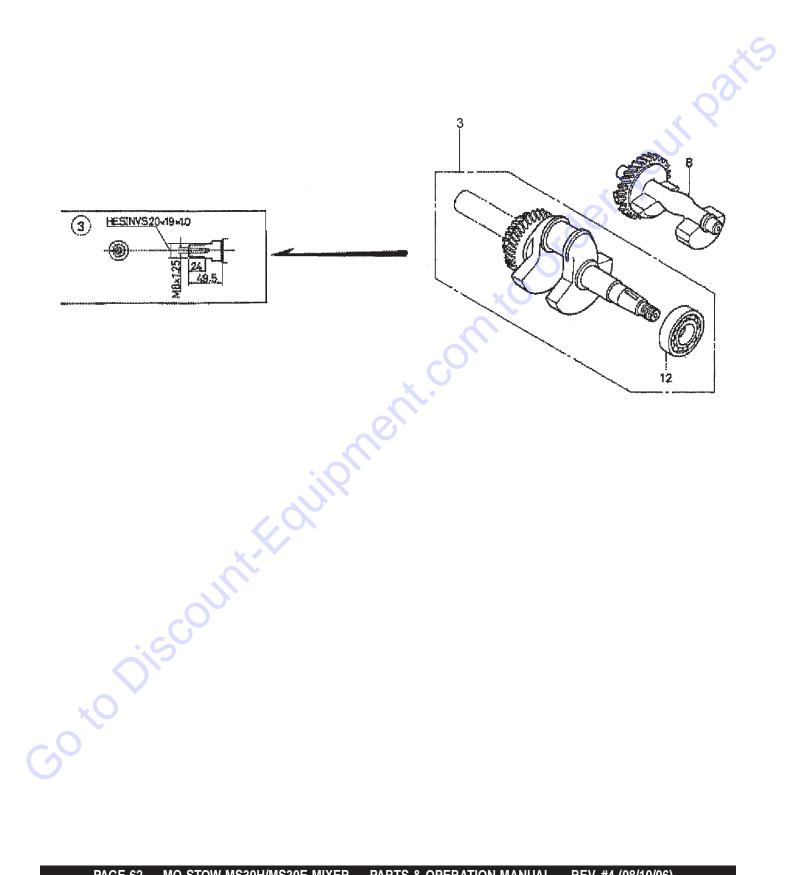
HONDA GX240K1HA2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u> 2	<u>PART NO.</u> 11400ZE2621	PART NAME COVER ASSY., CRANKCASE	<u>QTY.</u> 1	. INCLUDES ITEMS W/*
3 4 5 8% 9#	11381ZE2801 15600ZG4003 15600735003 15625ZE1003 15625ZE1003	(H-TYPE) (BALANCER) GASKET, CASE COVER CAP ASSY., OIL FILLER CAP ASSY., OIL FILLER GASKET, OIL FILLER CAP GASKET, OIL FILLER CAP		
10 11*+ 12*+ 13*+ 14* 15* 16*	16510ZE2811 16511ZE2000 16512ZE2811 16513ZE2000 16531ZE2000 90473147000 90602ZE1000	GOVERNOR ASSEMBLY (BALANCER) WEIGHT, GOVERNOR HOLDER, GOVERNOR WEIGHT PIN, GOVERNOR WEIGHT SLIDER, GOVERNOR WASHER (6 X 16) CLIP, GOVERNOR HOLDER	1 2 1 2 1 1 1 1	. INCLUDES ITEMS W/+
17 18* 19 20* 21* 22* 23*	90701HC4000 9410106800 957010803500 961006202000 961006204000 961006206000 961006302000	PIN, DOWEL (8 X 12) WASHER, PLAIN (6MM) BOLT, FLANGE (8 X 35) BEARING, RADIAL BALL (6202) BEARING, RADIAL BALL (6204) BEARING, RADIAL BALL (6206) BEARING, RADIAL BALL (6302)	2 7 1 1 1 1	
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HONDA GX240K1HA2ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.

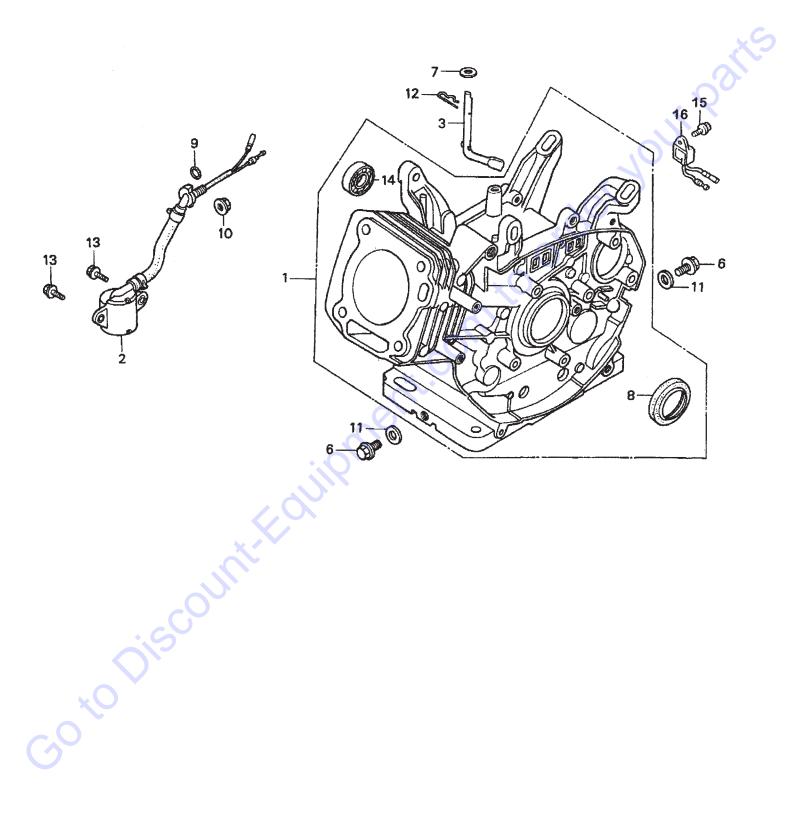


HONDA GX240K1HA2ENGINE — CRANKSHAFT ASSY.

CRAN	NKSHAFT ASSY.			
<u>NO.</u>	PART NO.	PART NAME	QTY.	REMARKS
3 8	13320ZE2611 13351ZE2010	CRANKSHAFT (L- TYPE) WEIGHT BALANCER	1 1	INCLUDES ITEM W/*
12*	961006206000	BEARING, RADIAL BALL (6206)	1	
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	Discol	int-Fouipmer		
×	odiscol	nt-Falipmer		
×	odiscol	nt-Fouipmer		
C C	odiscol	nt-Fouipmer		
, C	odiscol	nt-coulone		
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HONDA GX240K1HA2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.



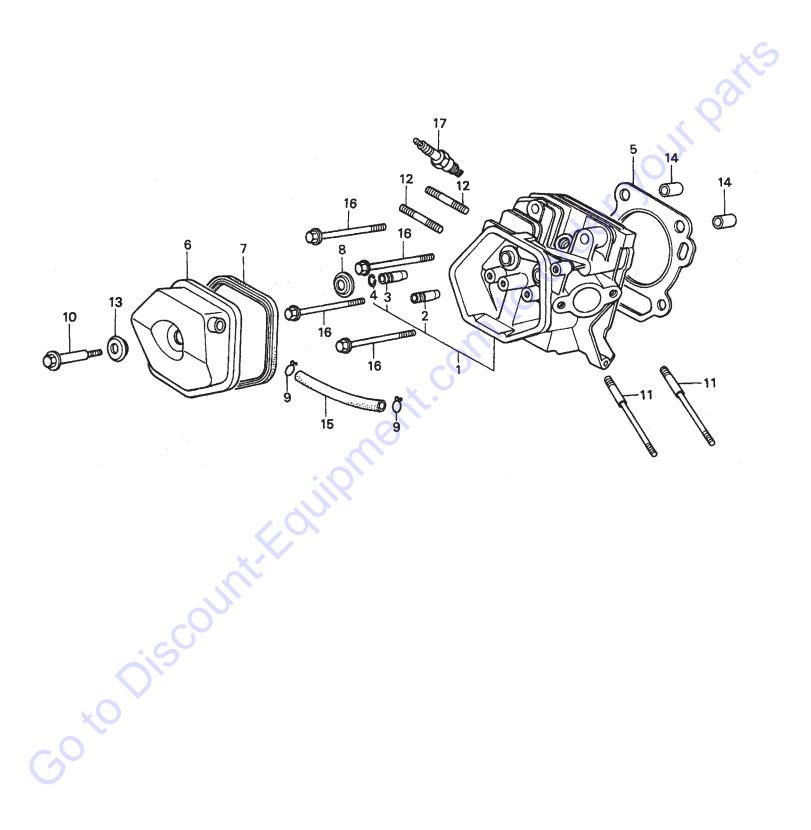
HONDA GX240K1HA2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

NO. 1 2 3 6 7 8* 9 10 11 12 13 14*	PART NO. 12000ZE2834 15510ZE2043 16541ZE2010 90131896650 90446KE1000 91201890003 91353671003 9405010000 9410912000 9425110000 957010601200 961006202000	PART NAMEQTY.REMARKSCYLINDER ASSY., BALANCER + OIL ALERT1INCLUDES ITEMS W/*SWITCH ASSY., OIL LEVEL1SHAFT, GOVERNOR ARM1BOLT, DRAIN PLUG2WASHER 8.2 X17X0.81OIL SEAL 30X46X81O-RING 14MM ARAI1NUT FLANGE 10MM1WASHER, DRAIN PLUG 12MM2PIN, LOCK 10MM1BOLT, FLANGE 6X122BEARING RADIAL BALL 62021	>
14* 15	961006202000 90013883000	BEARING, RADIAL BALL 6202 1 BOLT, FLANGE 6X12 CT200 1	
16	34150ZH7003	ALERT UNIT, OIL	
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HONDA GX240K1HA2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.



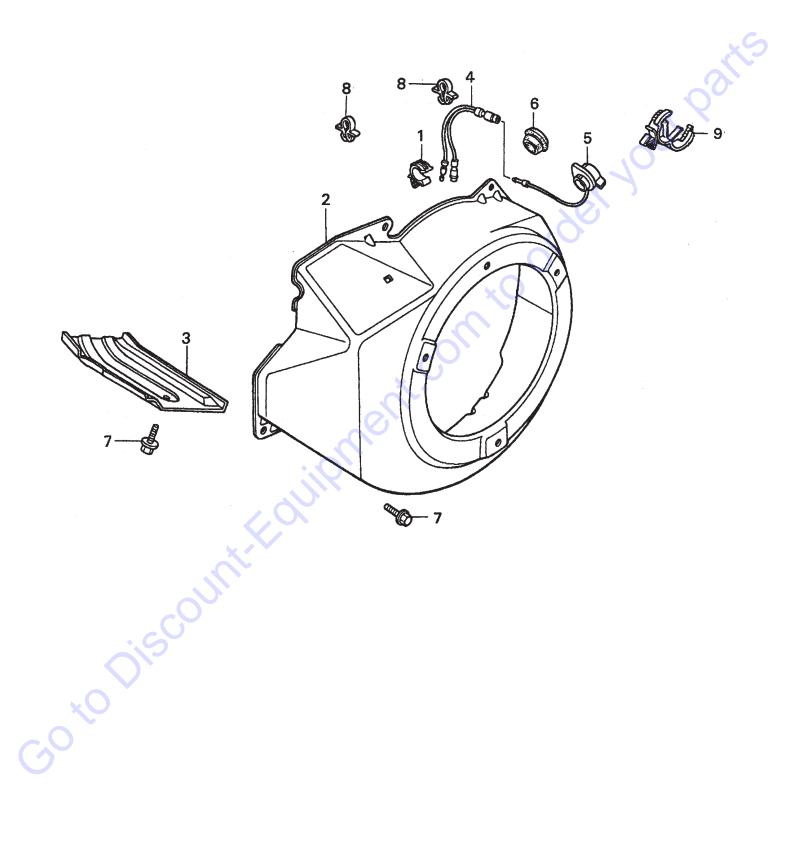
HONDA GX240K1HA2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

NO. 1 2* 3* 4* 5 6 7	PART NO. 12200ZH9000 12204ZE2306 12205ZE2305 12216ZE2300 12251ZE2800 12310ZE2020 12391ZE2020	PART NAME CYLINDER HEAD COMP. GUIDE, VALVE, OS, OPTIONAL GUIDE, EX. VALVE, OS, OPTIONAL CLIP, VALVE GUIDE GASKET, CYLINDER HEAD COVER COMP., HEAD GASKET, CYLINDER HEAD COVER	QTY. <u>REMARKS</u> 1 INCLUDES ITEMS W/* 1 1 1 1	Ş
8 10 11 12 13 14 15 16 17 17	14775ZE2010 90014ZE2000 90042ZE2000 90047ZE2000 90441ZE2010 9430112200 950051100130M 957011008000 9807956846 9807956855	SEAT, VALVE SPRING BOLT, HEAD COVER BOLT, STUD 8X123 BOLT, STUD 8X47 WASHER COMP., HEAD COVER PIN A, DOWEL 12X20 BULK HOSE, VACUUM 11X1000, 11X10 BOLT, FLANGE 10X80 SPARK PLUG, BPR6ES, NGK SPARK PLUG, W20EPR-U, DENSO	$\begin{array}{c}1\\1\\2\\2\\1\\2\\00\\1\\4\\1\\1\end{array}$	
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HONDA GX240K1HA2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.



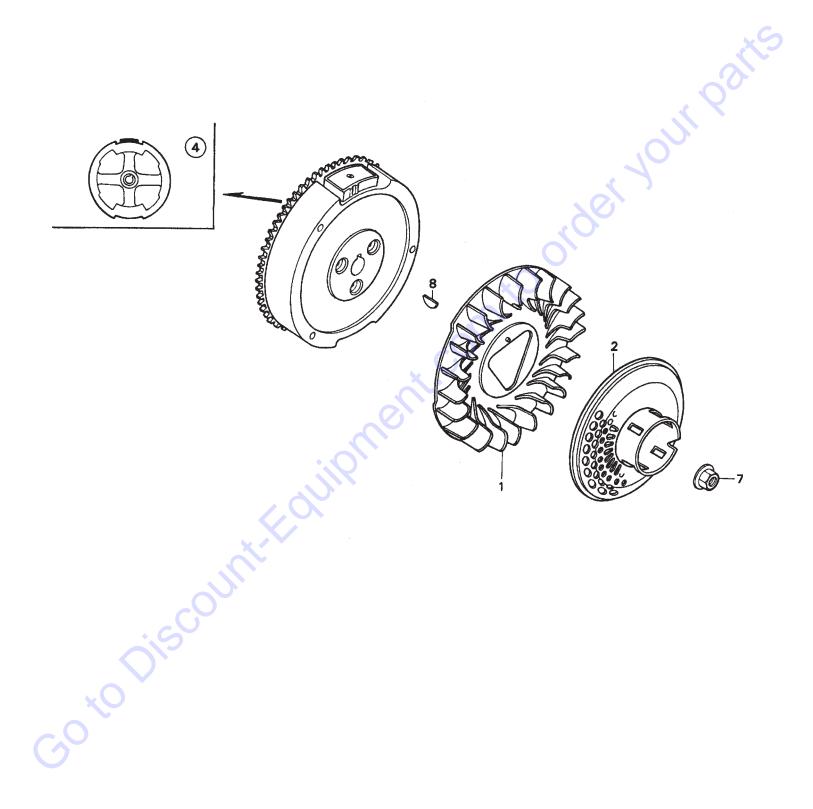
HONDA GX240K1HA2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

<u>NO.</u> 1 2 3 4 5 7 9	PART NO. 16731ZE2003 19610ZE2010ZC 19631ZE2D00 32197ZH8003 36100ZE1015 90013883000 90684ZA0601	PART NAME CLIP, TUBE COVER COMP., FAN *NH1* BLACK SHROUD SUB-HARNESS SWITCH ASSY., ENGINE STOP BOLT, FLANGE 6X12, CT200 CLIP, WIRE HARNESS	<u>QTY.</u> 1 1 1 1 6 1	REMARKS
		PART NAME CLIP, TUBE COVER COMP., FAN *NH1* BLACK SHROUD SUB-HARNESS SWITCH ASSY, ENGINE STOP BOLT, FLANGE 6X12, CT200 CLIP, WIRE HARNESS	toor	56.
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Go		MS30E MIXER — PARTS & OPERATION MAN	UAL — REV. #4	(08/10/06) — PAGE 69

HONDA GX240K1HA2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.



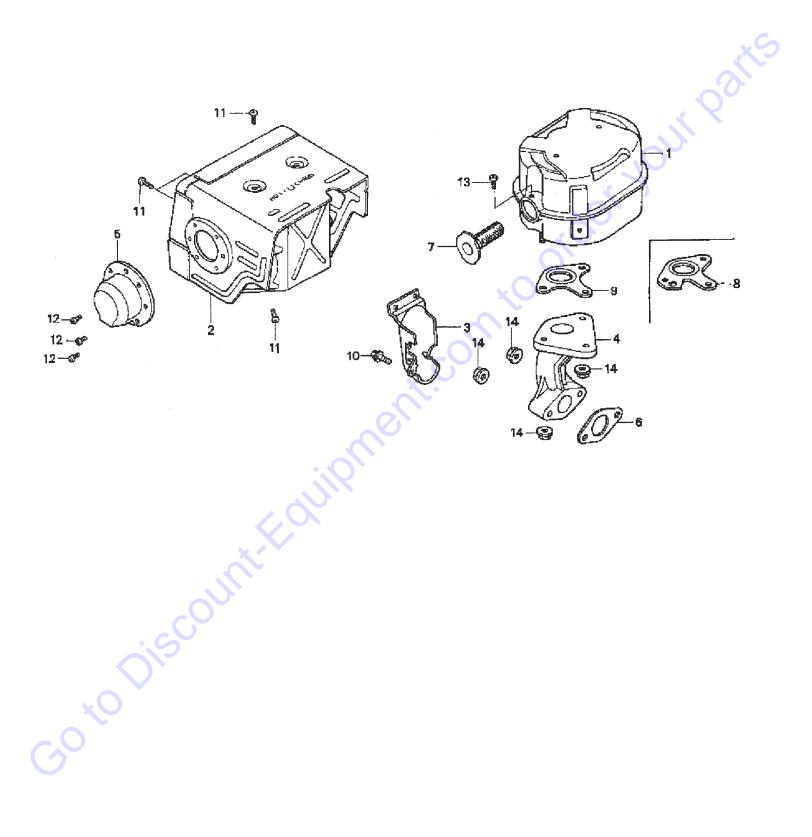
HONDA GX240K1HA2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

	FLYW	HEEL ASSY.			
	<u>NO.</u> 1 2 4 7 8	PART NO. 19511ZE2000 28450ZE2W11 31100ZE2010 90201ZE3V00 90741ZE2000	<u>PART NAME</u> FAN, COOLING PULLEY COMP., STARTER, SCREEN GRID FLYWHEEL COMP. NUT, SPECIAL 16MM KEY, SPECIAL WOODRUFF 25X18	<u>QTY.</u> 1 1 1 1	REMARKS
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			NUT, SPECIAL WOODRUFF 25X18	⁰	
			uipment.		
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HONDA GX240K1HA2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.



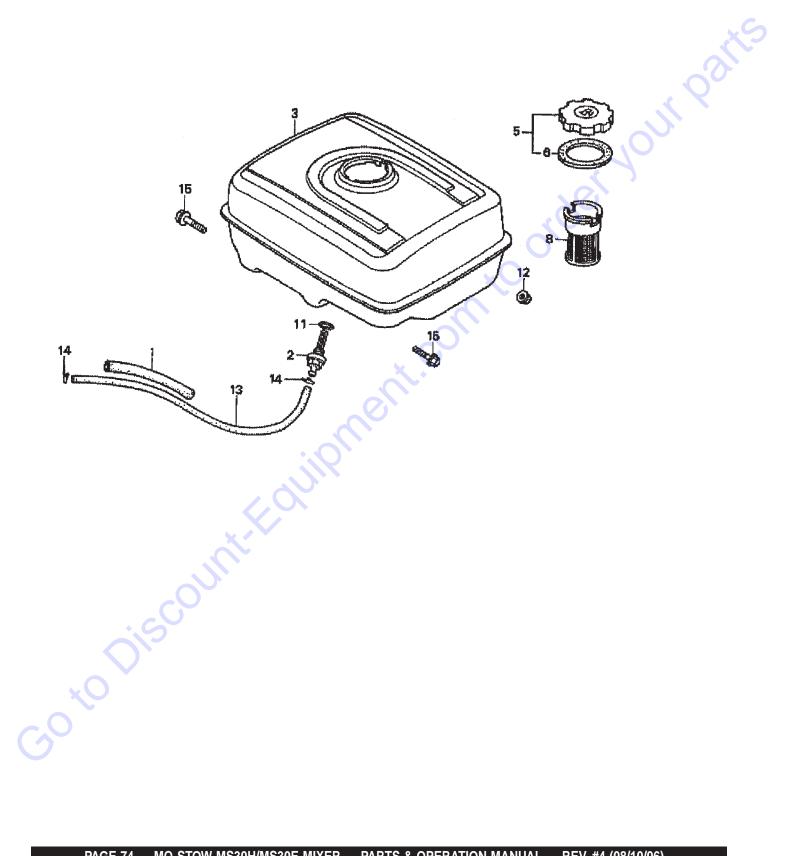
HONDA GX240K1HA2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	PART NO. 18310ZE2W00 18320ZE2W01 18323ZE2W00 18330ZE2W00 18331ZE2810 18333ZE3800 18355ZE2010 18381ZE2W10 18381ZE2W10 18381ZE2800 90013883000 90050ZE1000 90050ZE1000 9405008000	PART NAME MUFFLER PROTECTOR, MUFFLER PROTECTOR, EX. PIPE PIPE, EX. CAP, MUFFLER GASKET, EX. PIPE ARRESTER, SPARK GASKET, MUFFLER (ARRESTER) GASKET, MUFFLER BOLT, FLANGE (6 X 12) (CT200) SCREW, TAPPING (5 X 8) SCREW, TAPPING (5 X 8) SCREW, TAPPING (5 X 8) (OPTIONAL) NUT, FLANGE (8MM)	×O	REMARKS	5
Go	MQ STOW MS30H/MS	S30E MIXER — PARTS & OPERATION MAN		V. #4 (08/10/06) — PAGE 73	

HONDA GX240K1HA2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.



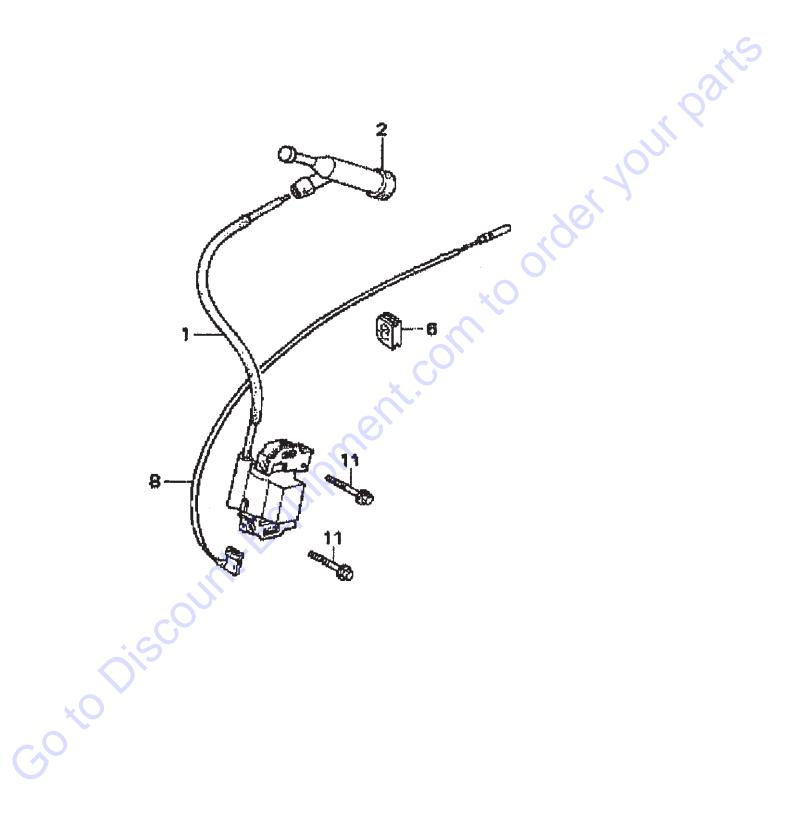
HONDA GX240K1HA2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.

NO. 1 2 3 5 6* 8 11 12 13 14 15	PART NO. 16854ZH8000 16955ZE1000 17510ZE2010ZD 17620ZH7023 17631ZH7003 17672ZE2W01 91353671003 9405008000 950014500360M 9500202080 957010802500	PART NAME RUBBER SUPPORTER 107MM JOINT, FUEL TANK TANK COMP., FUEL *NH1*, BLACK CAP COMP., FUEL FILLER GASKET, FUEL FILLER CAP FILTER, FUEL O-RING 14MM, ARAI NUT, FLANGE 8MM BULK HOSE, FUEL 4.5X3000, 4.5X222 CLIP, TUBE, B8 BOLT, FLANGE 8X25	<u>QTY.</u> 1 1 1 1 2 2 2	REMARKS
		ht	, to	
Go		/MS30E MIXER — PARTS & OPERATION MAN	NUAL — REV. #4	(08/10/06) — PAGE 75

HONDA GX240K1HA2ENGINE — IGNITION ASSY.

IGNITION COIL ASSY.



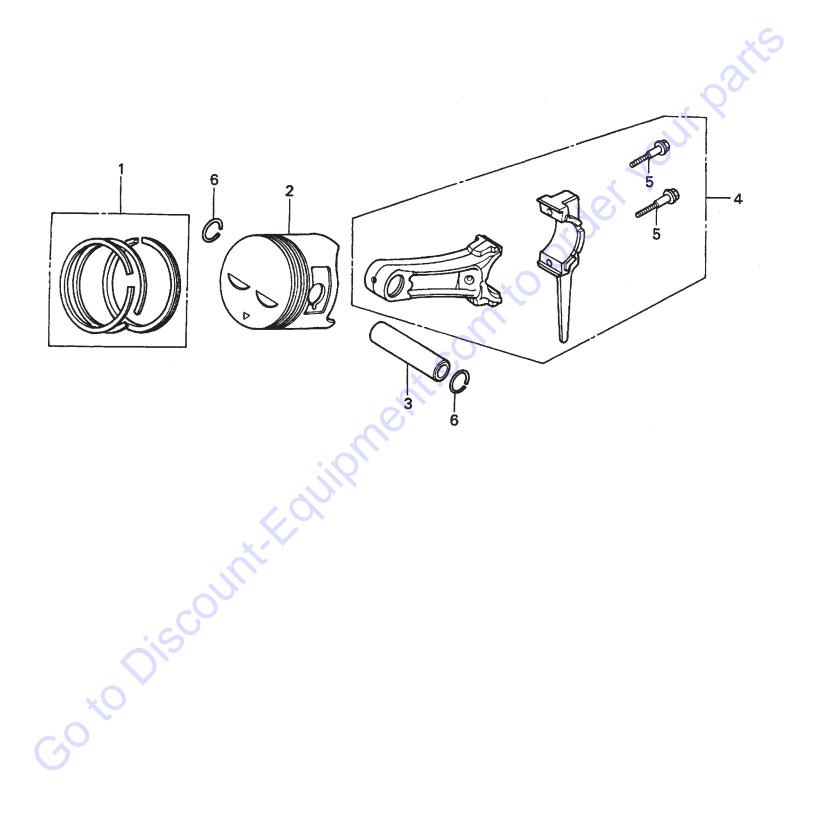
HONDA GX240K1HA2ENGINE — IGNITION ASSY.

IGNITION COIL ASSY.

	IGNIT	ION COIL ASSY.			
	<u>NO.</u> 1 2 6 8 11	PART NO. 30500ZE2023 30700ZE1013 31512ZE2000 36101ZE1010 90015883000	PART NAME COIL ASSY., IGNITION CAP ASSY., NOISE SUPPRESSOR GROMMET, WIRE WIRE, STOP SWITCH 370MM BOLT, FLANGE 6X28	<u>QTY.</u> 1 1 1 2	REMARKS
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HONDA GX240K1HA2 ENGINE — PISTON ASSY.

PISTON ASSY.



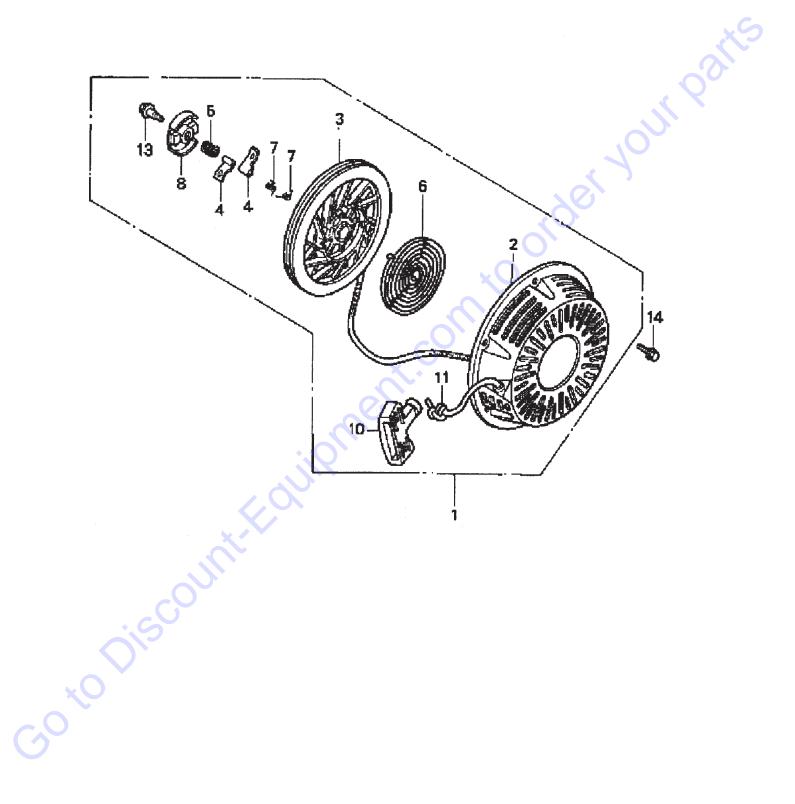
HONDA GX240K1HA2 ENGINE — PISTON ASSY.

PISTON ASSY.

NO. 1 1 1 2 2 2 2 2 3 4 4 5* 6	PART NO. 13010ZE2013 13011ZE2013 13012ZE2013 13013ZE2013 13101ZE2W00 13102ZE2W00 13103ZE2W00 13104ZE2W00 13111ZE2000 13200ZE2000 13200ZE2000 13200ZE2305 90001ZE8000 90551ZE1000	PART NAME RING SET, PISTON, STD. RING SET, PISTON, OS 0.25, OPTIONAL RING SET, PISTON, OS 0.50, OPTIONAL RING SET, PISTON, 0.75, OPTIONAL PISTON, STANDARD PISTON, OS 0.25, OPTIONAL PISTON, OS 0.50, OPTIONAL PISTON, 0.75, OPTIONAL PISTON, 0.75, OPTIONAL PIN, PISTON ROD ASSY., CONNECTING STANDARD ROD ASSY., CONNECTING, US 0.25, OPT. BOLT, CONNECTING ROD CLIP, PISTON PIN 18MM	QTY. 1 1 1 1 1 1 1 1 1 2 2	REMARKS
		int-Fouipment.com		
GO	MQ STOW MS30H	/MS30E MIXER — PARTS & OPERATION MANUA	L — REV. #4	(08/10/06) — PAGE 79

HONDA GX240K1HA2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



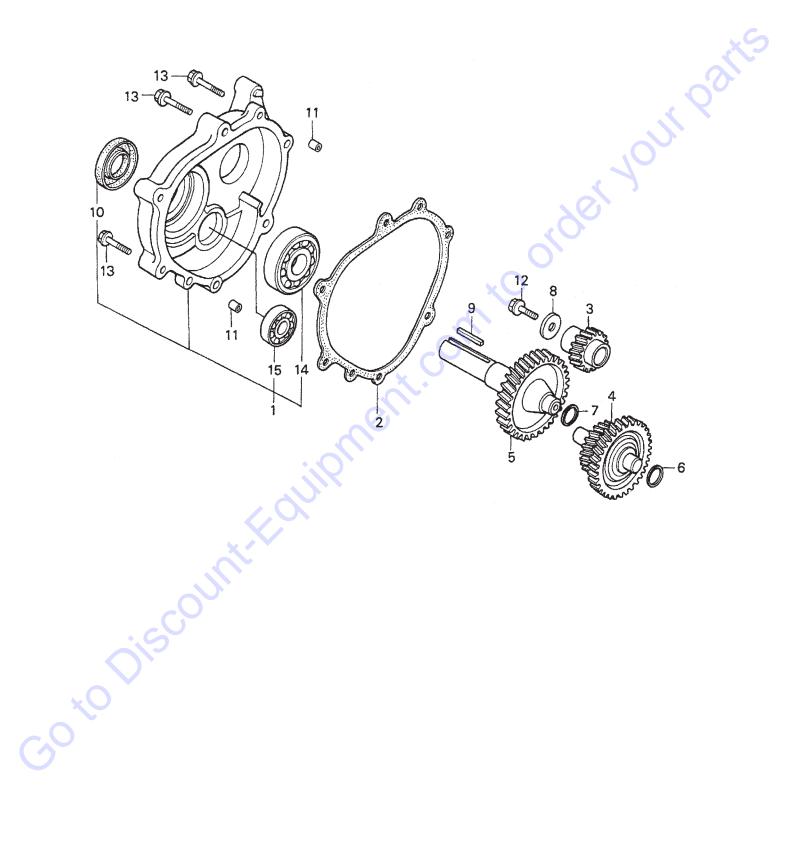
HONDA GX240K1HA2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

NO. 1 2* 3* 4* 5* 6* 7* 8* 10* 11* 13* 14	PART NO. 28400ZE2W01ZB 28410ZE2W01ZB 28421ZE2W01 28422ZE2W01 28441ZE2W01 28443ZE2W01 28443ZE2W01 28444ZE2W01 28461ZE2W02 28462ZE2W11 90004ZE2W01 90008ZE2003	PART NAME STARTER ASSY., RECOIL *NH1*, BLK CASE COMP., RECOIL STARTER *NH1*, BLK PULLEY, RECOIL STARTER RATCHET, STARTER SPRING, FRICTION SPRING, STARTER RETURN SPRING RATCHET RETAINER, SPRING GRIP, STARTER ROPE, RECOIL STARTER SCREW, CENTER BOLT, FLANGE 6X10		REMARKS
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		30E MIXER — PARTS & OPERATION MANUAL —	REV. #4(08/10/06) — PAGE 81

HONDA GX240K1HA2 ENGINE — GEAR REDUCTION ASSY.

GEAR REDUCTION ASSY.



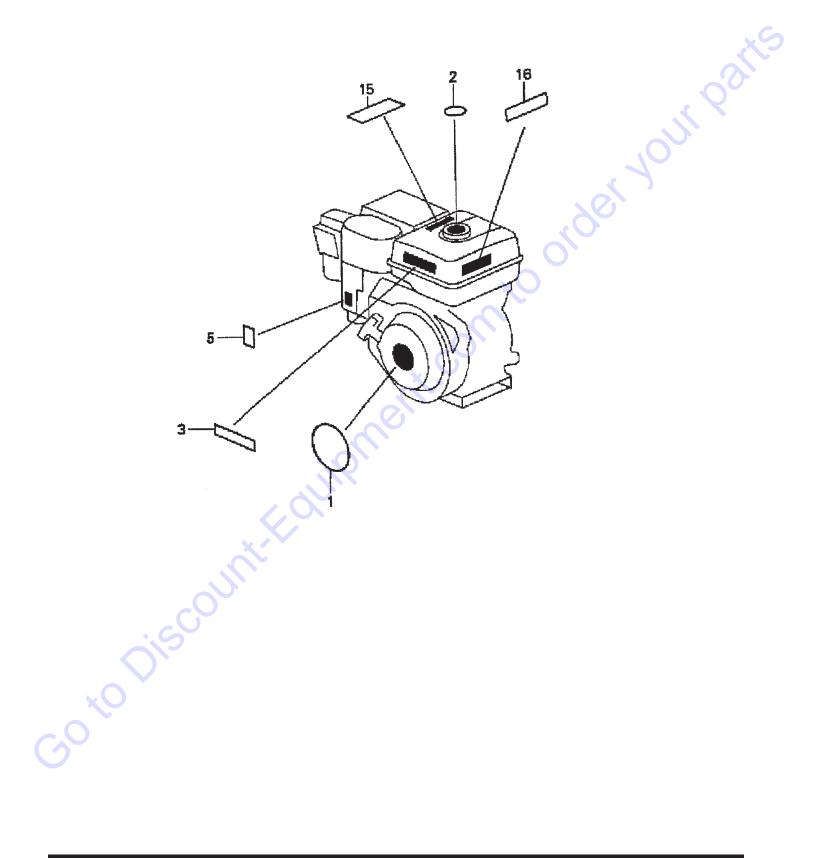
HONDA GX240K1HA2 ENGINE — GEAR REDUCTION ASSY.

GEAR REDUCTION ASSY.

NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	PART NO. 11500ZE2620 11521ZE2800 22103ZE2620 23220ZE2621 23710ZE2621 90401ZE2620 90402ZE2620 90473842000 90745ZE2600 91201890003 9430108140 957010802500 957010804000 961006206000 961006302000	PART NAME COVER ASSY, REDUCTION CASE GASKET, CHAIN CASE COVER GEAR, PRIMARY DRIVE (17T) COUNTERSHAFT SHAFT, P.T.O. (H- TYPE) SHIM A (OPTIONAL) SHIM B (OPTIONAL) WASHER (8MM) KEY (6.3 X 6.3 X 43) OIL SEAL (30 X 46 X 8) PIN A, DOWEL (8 X 14) BOLT, FLANGE (8 X 25) BOLT, FLANGE (8 X 40) BEARING, RADIAL BALL (6206) BEARING, RADIAL BALL (6302)	QTY. 1 1 1 1 AR AR 1 1 1 2 1 6 1	REMARKS
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	MQ STOW MS30H/M	S30E MIXER — PARTS & OPERATION MAI	NUAL — RE'	V. #4 (08/10/06) — PAGE 83

HONDA GX240K1HA2 ENGINE — LABEL ASSY.

LABEL ASSY.



HONDA GX240K1HA2 ENGINE — LABEL ASSY.

LABELS ASSY.

<u>NO.</u> 1 2 3 5	PART NO. 87521ZE2W01 87522ZE1810 87522ZH9000 87528ZE2810	PART NAME EMBLEM, INTERNAL MARK, CAUTION, EXTERNAL LABEL, CAUTION MARK, CHOKE, EXTERNAL	<u>QTY.</u> 1 1 1	REMARKS
15 16	87586ZH7W00 87532ZH8810	LABEL, FUEL CAUTION MARK, OIL ALERT	1 1	your P
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