OPERATION AND PARTS MANUAL



MODEL MS-93 PLASTER AND MORTAR MIXER (GASOLINE ENGINE/ELECTRIC MOTOR)

Revision #5 (03/26/10)

THIS MANUAL <u>MUST</u> ACCOMPANY THE EQUIPMENT AT ALL TIMES.



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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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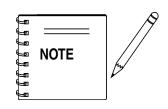
HONDA GX240K1HA2 EN-GINE

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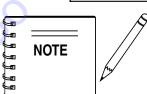


Specifications and are subject to change without notice.

STOW MS-93 PLASTER/MORTAR MIXER — SPECIFICATIONS

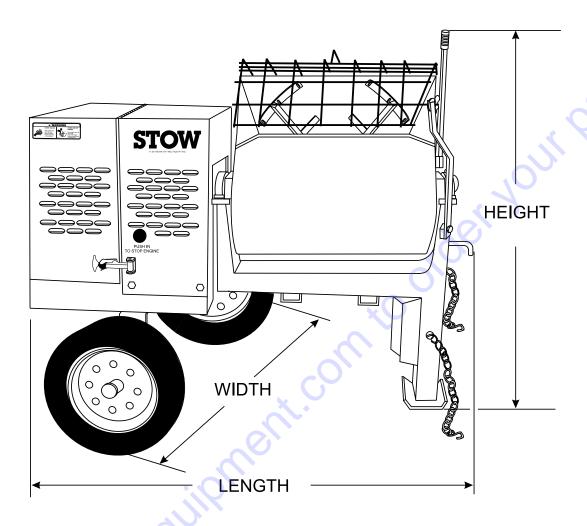
Table 1. STOW MS-93 Mixer Specifications				
Capacity	9.3 cu. ft (263 liters)			
Bag Capacity	2-1/2 to 3-1/2 Bags			
Length Without Tow Bar	42 in. (107 cm.)			
Length Tow Bar	36 in. (91 cm.)			
Width	29 in. (74 cm.)			
Height W/Dump Handle	76 in. (193 cm.)			
Discharge Height	75 in. (191 cm.)			
Drive	V-Belt/Gear			
Dump Action	Manual			
Weight Approx.	693 lbs. (314 kg.)			

Table	2. Specifications	(Engine & Electric Motor)			
	Model	HONDA GX240K1HA2	BALDOR 35LYS733		
	Туре	Air-cooled 4 stroke, 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		
	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		
-CO	Speed Control Method	Centrifugal Fly-weight Type	N/A		
2.5	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.)		



In accordance with our established policy of constant improvement, we reserve the right to amend these specifications at any time without notice.

STOW MS-93 PLASTER/MORTAR MIXER — DIMENSIONS



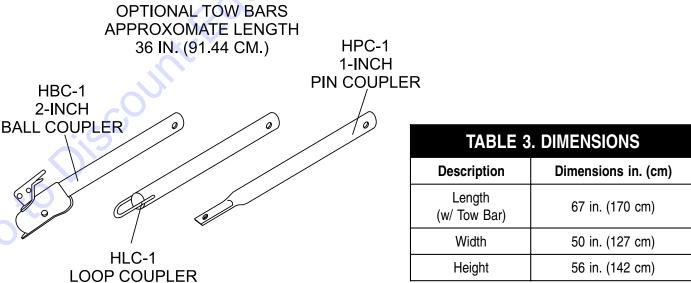


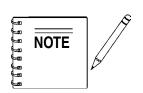
Figure 1. Dimensions

STOW MS-93 MIXER — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

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





This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of the **MQ Mikasa Model MT-84F** *tamping rammer*. Refer to the engine manufacturers instructions for data relative to its safe operation.

Before using this rammer, 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**,



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



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



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

HAZARD SYMBOLS

Potential hazards associated with the operation of a *MT-84F Tamping Rammer* will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

WARNING

Lethal Exhaust Gas Hazards

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



WARNING

Explosive Fuel Hazards

Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids.



DO NOT fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well-ventilated areas and away from sparks and flames.

WARNING

Burn Hazards

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



WARNING

Respiratory Hazards

ALWAYS wear approved *respiratory* protection when required.



STOW MS-93 MIXER — SAFETY MESSAGE ALERT SYMBOLS



Rotating Parts Hazards

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



CAUTION

Equipment Damage Hazards

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



Accidental Starting Hazards

ALWAYS disconnect the electrical power cord from the electric motor when the mixer is not in use and place the ON/OFF switch in the **OFF** position.





Eye and Hearing Hazards



TOW MS-93 PLASTER/MORTAR MIXER — RULES FOR SAFE OPERATION



Read this manual!

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 STOW MS-93 mortar and plaster mixer:

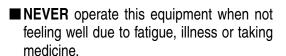
GENERAL SAFETY

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



- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.







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







■ ALWAYS wear proper respiratory (mask), hearing and eye protection equipment when operating the mixer.



- **NEVER** place hands inside the drum while the blades are rotating.
- 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 wellventilated 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**.
- Topping-off to filler port is dangerous, as it tends to spill fuel.
- 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.



Starting the Mixer Engine

NEVER! start the engine or engage the paddle arms when the drum is in the discharge (down) position.

STOW MS-93 PLASTER/MORTAR MIXER — RULES FOR SAFE OPERATION

- 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 check the machine for loosened threads or bolts before starting.
- 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. See Towing Guidelines section in this manual.
- 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.

WARNING

Stand Clear of the Mixer when in use

Always stand clear of the dump handle when the mixer is in operation. Any binding of material between the mixer blades and the drum will cause the drum handle to quickly move and could cause bodily harm.

- 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

- **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.

EMERGENCIES

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







STOW MS-93 PLASTER/MORTAR MIXER — TOWING GUIDELINES

Towing Safety Precautions



Regularly Inspect Towing Components

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:

- Check with your county or state safety towing regulations department before towing your *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 off-road towing is not to exceed **10** or **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 9 (Tire Wear Troubleshooting).
- When towing of the mixer is required, place the drum in the up position (mouth facing upwards) and lock the drum latch.

- **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.

Tow Bar to Vehicle Connection (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.



Replacing Towing Components

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

- 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.
- 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 Connection (Pintle and Loop)

- Make sure the bumper on the towing vehicle is equipped to handle either a pentle 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 the tow bar to the towing vehicle and to the unit being towed.

STOW MS-93 PLASTER/MORTAR 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 2 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.

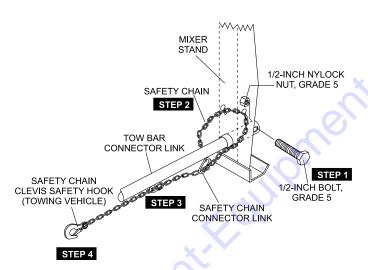




Figure 2. Tow Bar and Safety Chain Installation

- 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.
- 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.



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 3) of the drum stop block. This will keep the drum from rotating.

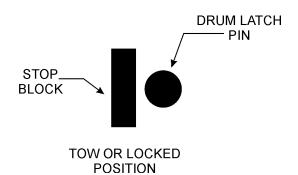


Figure 3. Drum Latch Pin (Tow or Locked Position)

MS-93 PLASTER/MORTAR MIXER — OPERATION AND SAFETY DECALS

Machine Safety Decals

The STOW MS-93 mortar and plaster mixer is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. Figure 4 below illustrates these decals as they appear on the machine. Should any of these decals become unreadable, replacements can be obtained from your dealer.



P/N: 35137

STOW
A DIVISION OF MULTIQUIP INC.
P/N: 512527

STOW

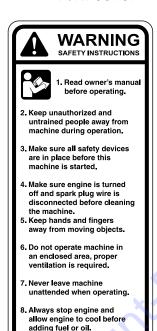
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P/N 513522

À WARNING À





A ATTENTION!

BELT SLIP LEVER POSITION

START ENGINE

міх



P/N 513479

P/N: CIPDCL160



P/N: EM948630



STAND CLEAR OF DUMP HANDLE. HANDLE KICK-BACK IS POSSIBLE.

P/N: DCL280

P/N: 504713



P/N: 13118

P/N DCL151

TIRES. DO NOT EXCEED RECOMMENDED

Figure 4. Mixer Operation and Safety Decals

STOW MS-93 PLASTER/MORTAR MIXER — GENERAL INFORMATION

Application

The STOW MS-93 series mixers (drum capacity of 9.0 cu. ft./263 liters) are shipped completely assembled and have been factory tested and are ready for use.

This mixer is <u>only</u> intended for the production of *plaster* and *mortar*. The mixer must be used for its intended purpose and is not suitable for the mixing of *flammable* or *explosive* substances. The mixer <u>must not be used</u> in an explosive atmosphere. This mixer has a batch capacity between 2-1/2 and 3-1/2 bags.

Power Plants

The STOW *plaster* and *mortar* mixer can be powered by either a Honda GX240K1HA2 air-cooled, 4-stroke gasoline engine or a 2 HP electric motor. Refer to Table 2 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 (115 VAC applications).

Extension Cables

The extension cable should be a 3-wire configuration that includes a ground wire that conforms to UL code. The wire cross section must be a minimum of 2.5 mm². Choose an extension cord of adequate current carrying capacity as referenced in Table 6. Remember *cable distance* affects the current-voltage capacity of the extension cable.

Ensure that the extension cable is carefully laid out avoiding **wet areas**, **sharp edges** and locations where vehicles might run over it. Avoid allowing the extension cable to be trapped underneath the mixer.

Unroll the extension cable fully or it will overheat and could catch fire. Make sure that all extension cable connections are dry and safe. Replace any defective or badly worn extension cable immediately.

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 4 as general guideline when torqueing of mixer hardware is required. Remember to keep all mixer hardware components tight.

Table 4. 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 a more detailed engine maintenance, refer to the *Honda* Engine Owner's manual furnished with the engine.

STOW MS-93 PLASTER/MORTAR MIXER — BASIC MIXER COMPONENTS

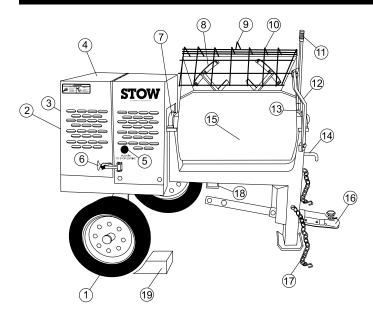


Figure 5. Mixer Components

Figure 5 illustrates the basic components and controls of the STOW MS-93 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.
- 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.
- Latch Use this latch to secure the engine compartment cabinet.
- 7. **Drum Bearing** There is on each end of the mixing drum, a sealed bearing. Bearings are packed and sealed at the factory and require no further maintenance.

- 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.
- 10. 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. 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.
- 13. **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.
- 14. 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.
- 15. **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.
- Tow Bar/Coupler This mixer uses a 2-inch coupler or pintle towbar.
- Safety Chain This mixer uses a 3/16-inch thick, 72-inches long zinc-plated saftey chain. ALWAYS connect the safety chain when towing.
- 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.
- Chock Blocks Place these blocks (not included as part of the mixer package) under each mixer wheel to prevent rolling.

STOW MS-93 PLASTER/MORTAR MIXER — BASIC ENGINE COMPONENTS

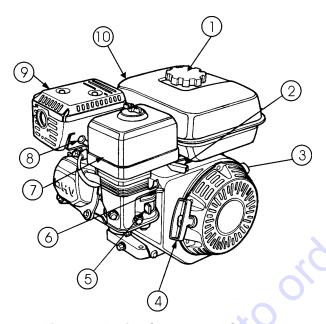


Figure 6. Engine Controls and Components

INITIAL SERVICING

The engine (Figure 6) 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.



Explosive Fuel Hazard

Adding fuel to the tank should be done only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up, and the area surrounding the engine is dry.

- Throttle Lever Used to adjust engine RPM speed (lever advanced forward SLOW, lever back toward operator FAST).
- Engine ON/OFF Switch ON position permits engine starting, OFF position stops engine operations.
- 4. Recoil Starter (pull rope) Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.

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



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

WARNING

Burn Hazard

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



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

STOW MS-93 PLASTER/MORTAR 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.



Electric Motor Safety

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 3 HP motor. The input voltage requirement for this motor is 115/230 VAC, and has been pre-set to 230VAC.

Electric Motor Connection

A 12-inch electrical cable (Figure 7) is provided with the electrical motor for hookup to a power source. Table 5 shows the required NEMA connector for the desired motor horsepower rating. In addition, Table 5 also shows the matching NEMA approved connector for the required extension cord.



Electric Motor Connections

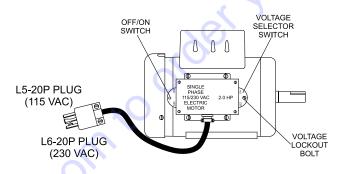
ALWAYS make certain that the power source required for the electric motor is **correct** and always use the correct NEMA configuration plug. **Failure** to supply the correct voltage to the motor can severely damage the motor.



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

Table 5. Electric Motor Wiring Information					
Motor	115-230 VAC - Single Phase				
Horsepower Rating	NEMA Plug Connector	Mating NEMA Receptacle Connector			
2.0 HP (115 VAC)	L5-20P P/N EM940537	L5-20R P/N EM940538			
2.0 HP (230 VAC)	L6-20P P/N 940539	L6-20R P/N 940540			



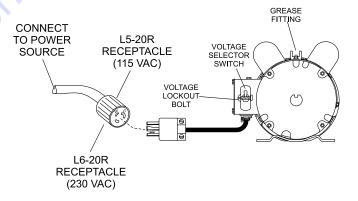


Figure 7. Single Phase Electric Motor With 12-inch Pigtail

STOW MS-93 PLASTER/MORTAR MIXER — ELECTRIC 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 6.

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.

motor
.wer cord

Table 6. 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)
MS93E (Electric)	2.0 HP	115	No. 12	No. 10	No. 8	No. 6
(Electric)		230	No. 14	No. 12	No. 12	No. 8

STOW MS-93 — PADDLE BLADE ADJUSTMENT (STEEL DRUM)

Adjust paddles as shown in Figure 8.

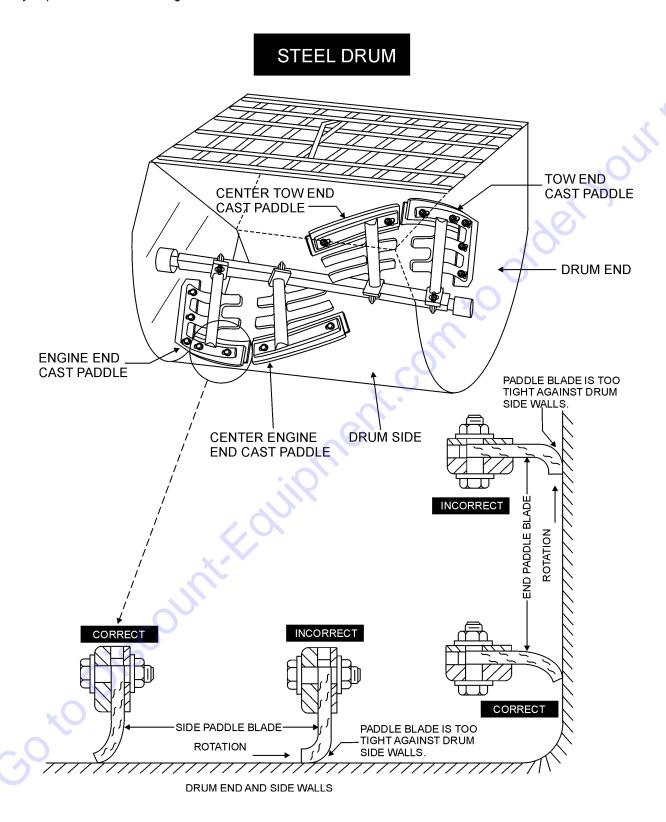


Figure 8. Paddle Blade Adjustment, Steel Drum

STOW MS-93 PLASTER/MORTAR MIXER — INSPECTION

Before Starting

- 1. Read *all 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.

A CAUTION

Eyesight and Hearing Protection

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



A CAUTION

Inspection & Maintenance Saftey

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 mixer on secure level ground with the engine stopped.
- 2. Remove the filler dipstick from the engine oil filler hole (Figure 9) and wipe it clean.

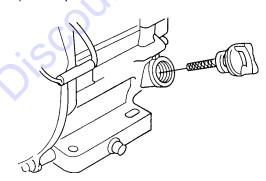
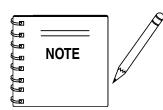


Figure 9. Engine Oil Dipstick (Removal)

- 3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
- If the oil level is low (Figure 10), fill to the edge of the oil filler hole with the recommended oil type (Table 7). Maximum oil capacity is 1.16 gts. (1.09 liters)



Reference manufacturer engine manual for specific servicing instructions.

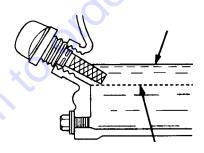


Figure 10. Engine Oil Dipstick (Oil Level)

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		

STOW MS-93 PLASTER/MORTAR MIXER — INSPECTION

Fuel Check

DANGER

Explosive Fuel Hazard

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



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

CAUTION

Start/Stop Switch

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. 30 to Diescountification of the contract of th

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 V-belt 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 in this manual. 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 electric motor is started.

Grease Fittings (Dumping Mechanism)

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.

STOW MS-93 PLASTER/MORTAR MIXER — START-UP PROCEDURES

This section is intended to assist the operator with the initial start-up of the STOW MS-93H (gasoline engine) or STOW MS-93E (electric motor) 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.

WARNING

General Safety

Failure to understand the operation of the STOW MS-93 series mixers could result in **severe damage** to the mixer or **personal injury**.

See Figures 5 and 6 for the location of any control referenced in this manual.

CAUTION

Respiratory Hazard



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

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 11) to the **ON** position.

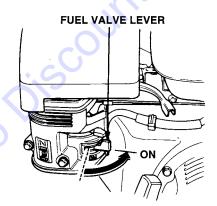


Figure 11. Fuel Shut-OFF Lever

2. To start a cold engine, move the choke lever (Figure 12) to the **CLOSED** position.

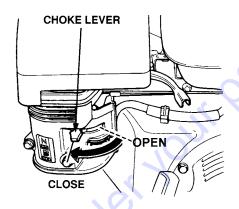


Figure 12. Choke Lever

3. Move the throttle lever (Figure 13) away from the slow position, about 1/3 of the way toward the fast position.

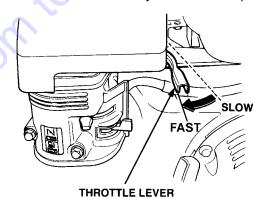


Figure 13. Throttle Lever

MS-93 PLASTER/MORTAR MIXER — START-UP PROCEDURES

4. Turn the engine switch (Figure 14) to the **ON** position.

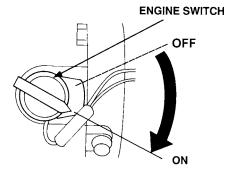


Figure 14. Engine ON/OFF Switch

5. The main **start/stop** switch located on the engine cover is (Figure 15) is used to start and stop the engine. Pull this switch outward to start the engine.

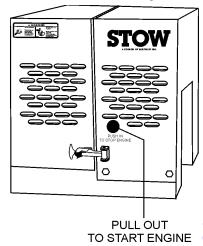


Figure 15. Start/Stop Switch (gasoline engine)

6. Place the **belt slip lever** (Figure 16) in the **START/STOP** (disengaged) position.

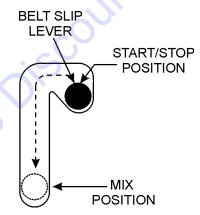


Figure 16. Belt Slip Lever (Start/Stop Position)

CAUTION

Preventing Drum Tipping

Make certain the *drum lock pin* (Figures 17 and 18) 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.

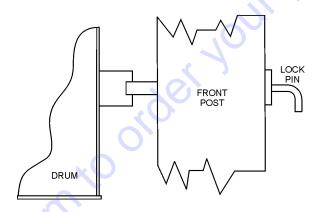


Figure 17. Drum Lock Pin (Side-View)

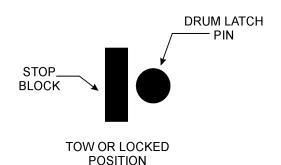


Figure 18. Drum Lock Pin (Right Position)

7. Pull the **starter grip** (Figure 19) lightly until you feel resistance, then pull briskly. Return the starter grip gently.

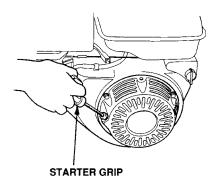


Figure 19. Starter Grip

STOW MS-93 PLASTER/MORTAR MIXER — OPERATION/SHUT-DOWN

8. Place the belt slip lever (Figure 20) in the *mix* position. This will tilt the engine placing tension on the V-belts enabling the shaft to rotate.

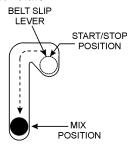


Figure 20. Belt Slip Lever (Mix Position)

Starting (electric only)

- Using an adequate size extension cord (see Table 5), 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 7) to the **ON** position.

Mixing Dumping

- The paddle shaft inside the drum should be rotating at this time.
- 2. Add a small amount water to the mixing drum.
- Lift the mixing bag compound onto the steel safety grate over the bag cutter and let the contents fall into the drum. Add more water if desired 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 21.

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 be maintained in the vertical position as the paddles rotate. To discharge the material the operator should hold the dump handle with **both hands** and rotate the drum to discharge the desired amount of material.

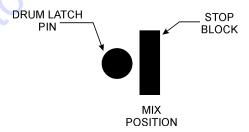


Figure 21. Drum Lock Pin (Left Position)

WARNING

Dump Handle Safety

Be sure to stand clear of the *dump handle* (Figure 22) 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 and could cause bodily harm.



Figure 22. Stand Clear of Dump Handle

STOPPING THE MIXER (gasoline engine)

- 1. Place the *belt slip lever* in the *start/stop* position (Figure 20).
- 2. Push the main **start/stop** switch (Figure 15) inward to stop the engine.
- 3. Turn the fuel shut-off valve to the **OFF** position.
- 4. Disconnect the spark plug.
- 5. Clean mixer as referenced in the maintance section of this manual.

STOPPING THE MIXER (electric motor)

- Place the electric motor's ON/OFF switch (Figure 4) in the OFF position.
- 2. Disconnect the electric motor's extension cord from its power source.
- 3. Clean mixer as referenced in the maintance section of this manual.

Use Table 8 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 8. Engine Maintenance Schedule							
DESCRIPTION (3)	OPERATION	BEFORE	FIRST MONTH OR 10 HRS.	EVERY 3 MONTHS OR 25 HRS.	EVERY 6 MONTHS OR 50 HRS.	EVERY YEAR OR 100 HRS.	EVERY 2 YEARS OR 200 HRS.
Engine Oil	CHECK	Х				70,	
Engine Oil	CHANGE		Х				
Air Cleaner	CHECK	Х					
All Cleaner	CHANGE			X (1)	XO		
All Nuts & Bolts	Re-tighten If Necessary	Х		~			
Consult Dive	CHECK-CLEAN			C	Х		
Spark Plug	REPLACE		5				Х
Cooling Fins	CHECK		~6)		Х		
Spark Arrester	CLEAN					Х	
Fuel Tank	CLEAN	110				Х	
Fuel Filter	CHECK					Х	
Idle Speed	CHECK-ADJUST					X (2)	
Valve Clearance	CHECK-ADJUST						X (2)
Fuel lines	CHECK	Every 2 years (replace if necessary) (2)					

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

⁽²⁾ These items should be serviced by your 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

Perform the scheduled maintenance procedures as defined by Table 8 and below:

DAILY

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

WEEKLY

- Remove the fuel filter cap and clean the inside of the fuel tank.
- Remove or clean the filter at the bottom of the tank.
- Remove and clean the spark plug (Figure 23), 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.

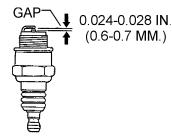


Figure 23. Spark Plug Gap

ENGINE OIL

- 1. Drain the engine oil when the oil is *warm* as shown in Figure 24.
- 2. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
- Replace engine oil with recommended type oil as listed in Table 7. For engine oil capacity, see Table 2 (engine specifications). DO NOT overfill.
- 4. Install drain bolt with sealing washer and tighten securely.

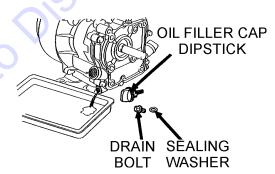


Figure 24. Engine Oil (Draining)

ENGINE AIR CLEANER

- 1. Remove the air cleaner cover and foam filter element as shown in Figure 25.
- 2. Tap the paper filter element (Figure 25) 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. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.



Explosive Hazard

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



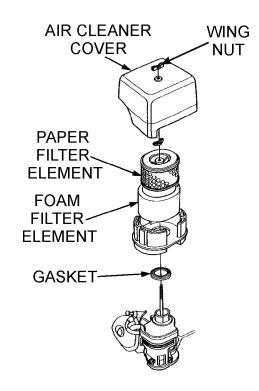


Figure 25. Engine Air Cleaner

Ball Socket and Clamp Face Maintenance

- If the towing vechicle is equipped with a ball socket, smear socket periodically with multi-purpose grease. This will keep the ball socket well lubricated.
- 2. 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.

Drum Head Seals

There is 1 set of drum head seals (Figure 26) that will require lubrication. Lubricate the grease fitting for each drum seal *every 40 hours of operation* using any grade lithium base grease. Apply grease until visible inside of mixing drum (over grease). This will purge seal system of contamination.

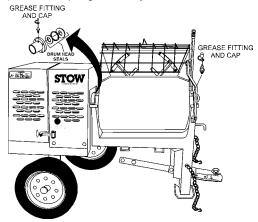


Figure 26. Grease Fittings (Drum Head Seals)

Drum Bearing Bracket Lubrication

There is 1 set of drum bearing brackets (Figure 27) that will require lubrication. These brackets are intended to make the drum rotate freely. Lubricate the grease fitting for each drum bearing bracket *every month or when the drum becomes difficult to position* using multi-purpose grade grease.

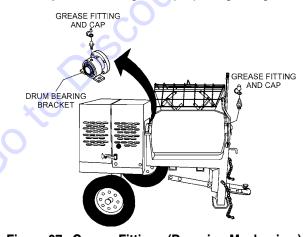


Figure 27. Grease Fittings (Dumping Mechanism)

CAUTION

Lubricating the Grease Fittings

<u>Failure</u> to lubricate the drum bearing grease fittings periodically will cause the dumping mechanism to stiffen, making the mixing drum hard to dump.

Countershaft Bearing Lubrication

There is 1 set of countershaft bearings (Figure 28) that will require lubrication. Lubricate the grease fitting for each countershaft bearing *every 40 hours of operation* using any grade lithium base grease.

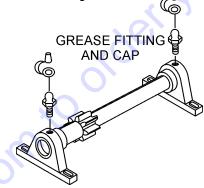
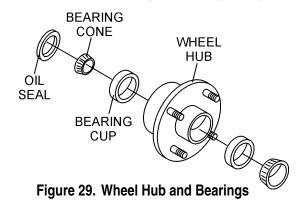


Figure 28. Grease Fittings (Countershaft)

Wheel Bearings

1. After every 3 months of operation, remove the hub dust cap and inspect the wheel bearings (Figure 29). 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.")



2. Fill the wheel hub (Figure 28) 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.

MAIN GEAR AND DRIVE PINION ALIGNMENT

- Disconnect the spark plug wire (gasoline engines). If mixer is equipped with an electric motor remove power cord from AC power receptacle. In addition make sure the clutch engagement lever is dis-engaged to relieve V-belt tension.
- The countershaft and drive pinion are mounted on a slotted base. To align drive pinion with main gear, loosen the pillow block mounting bolts and move them until the necessary alignment has been made. Remember gears must be paralleled aligned not skewed.
- 3. Using your hand, slightly move (rock) the drive pulley back and forth to determine the amount of backlash. Insert feeler gauge between gears to determine backlash distance. Backlash should range between 0.007- 0.012 inches (Figure 30).

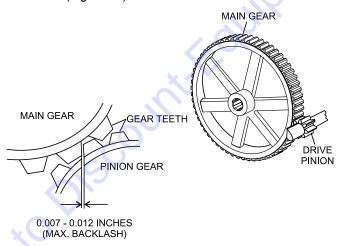


Figure 30. Drive Pinion and Main Gear (Backlash)

INSPECT TOOTH CONTACT BETWEEN MAIN GEAR AND DRIVE PINION

- Coat 3 or 4 teeth at 3 different positions on the main gear with yellow paint.
- 2. Rotate the drive pulley in both directions.
- 3. Inspect the tooth pattern.
- 4. If gear teeth are not contacting properly (Figure 31), adjust pillow block to correct the problem.

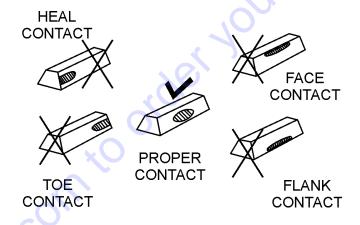
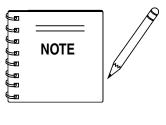


Figure 31. Gear Teeth Alignment

GEAR LUBRICATION

The surface of the pinion and main gear (Figure 32) should be very lightly greased.



Grease main and pinion gears every 250 hours of operation. IMPORTANT! avoid overgreasing. Excess grease will accumulate contaminates and cause premature wear.

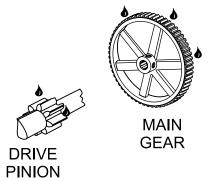


Figure 32. Pinion and Bull Gear Lubrication

Grease Fittings (Zerk) Maintenance (Electric Motor)

- There are two grease (Figure 33) fittings at each end of the electric motor that will require lubrication. Lubricate these fittings about *every 16 months*.
- 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.

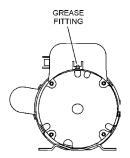


Figure 33. Grease Fittings Electric Motor

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.

WARNING

Damaged Wheels

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 maximum tire life and tread wear.



Eyesight Hazard

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



Table 9 (Tire Wear Troubleshooting) will help pinpoint the causes and solutions of tire wear problems.

TABLE 9. 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.		

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 34. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 10.

Table 10. 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.

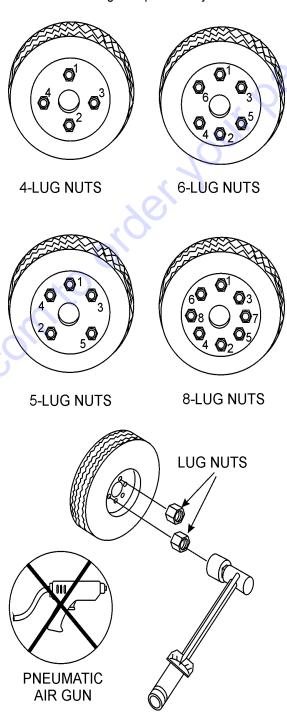


Figure 34. Wheel Lug Nuts Tightening Sequence

TORQUE WRENCH

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Suspension

The rigid type axle and associated hardware (Figure 35) should be periodically inspected for signs of excessive wear, elongation of bolt holes, and loosening of fasteners. Replace all damaged parts immediately.

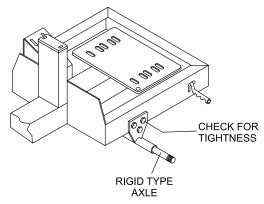


Figure 35. Axle Support Components

Mixer Cleaning

- ALWAYS disconnect the spark plug wire (gasoline engines) before cleaning the inside of the drum. If mixer is equipped with an electric motor remove power cord from AC power receptacle. In addition make sure the clutch engagement lever is dis-engaged.
- 2. Make sure the rear section of the safety grate is connected to the mixing drum.
- 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, DO NOT allow a buildup of materials to form on the blades or anywhere inside the drum.
- 4. Rotate mixer to dump position and remove debris.
- 5. **Thoroughly clean** the entire mixer, wheels, cabinet and frame.
- 6. **NEVER!** pour or spray water over the engine or electric motor (Figure 36).

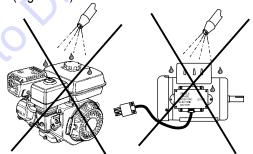


Figure 36. No Spraying of Water



Keep Hands Clear of Drum!

When rotating the mixing drum from the dump position to the upright position, **keep hands clear of safety grate.** The possibility exists of hands or fingers being crushed (Figure 37).



Figure 37. Safety Grate (Crush Hazard)

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

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 fuel is completely consumed.
- Completely drain used oil from the engine crankcase and fill with fresh clean oil, then follow the procedures described in the engine manual for engine storage.
- Clean the entire mixer and engine compartment.
- Place the mixing drum in the down position (mouth facing downward).
- Cover the mixer and place it a clean dry area, that is protected from harsh elements.

STOW MS-93 PLASTER/MORTAR 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 11, 12 and 13) 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 11. 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 broken. 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.			
Insufficient power output "compression"	Malfunction in air-cleaner system, air filter clogged?	Clean or replace air filter.			
	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.			

STOW MS-93 PLASTER/MORTAR 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 spart
Exhaust color is continiously	Lubricating oil is wrong viscosity?	Replace lubricating oil with correct viscosity.
"WHITE"	Worn rings?	Replace rings
	Air cleanner clogged?	Clean or replace air cleaner.
Exhaust solar is continiously	Choke valve has not been set to the correct position?	Adjust choke valve to the correct position.
Exhaust color is continiously "BLACK"	Carburetor defective, seal on carburetor broken?	Replace carburetor or seal.
	Poor carburetor adjustment "engine runs too rich?	Adjust carburetor.
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STOW MS-93 — TROUBLESHOOTING (MIXER/ELECTRIC MOTOR)

TABLE 12. 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.		

TABLE 13. ELECTRIC MOTOR TROUBLESHOOTING			
SYMPTOM	POSSIBLE PROBLEM	SOLUTION	
Blades will not rotate.	No voltage to motor?	Check power source.	
	Defective extension cord?	Replace extension cord.	
	Defective motor ON/OFF switch?	Replace switch.	
	Defective motor windings?	Repair windings or replace windings.	

STOW MS-93 MIXER — WIRING DIAGRAM (ELECTRIC MOTOR)

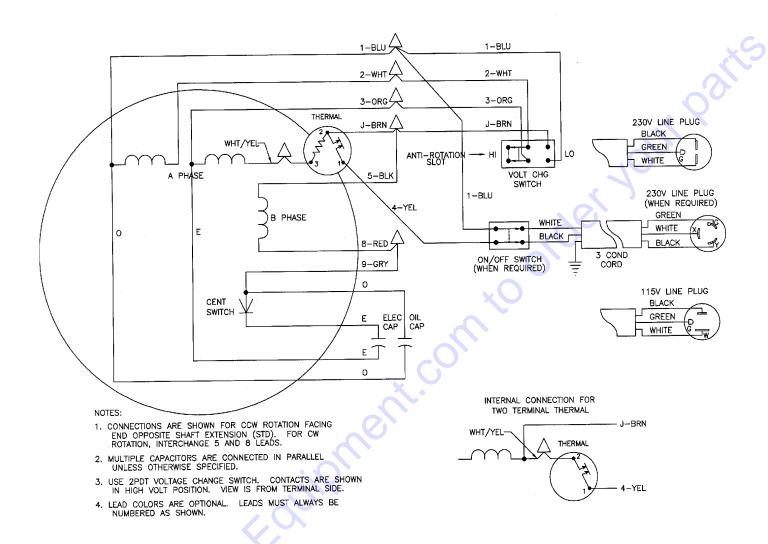


Figure 38. Electric Motor Wiring Diagram

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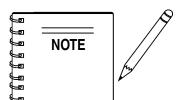
EXPLANATION OF CODE IN REMARKS COLUMN

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

Items Found In the "Remarks" Column

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

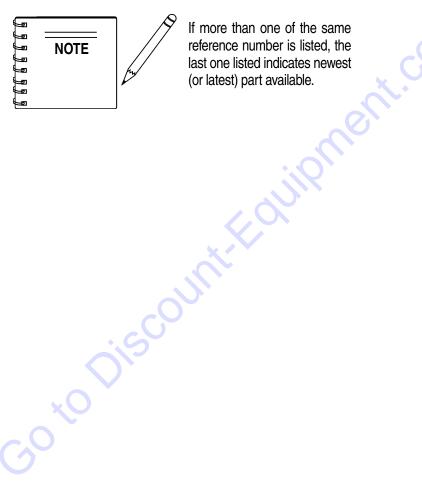
Model Number-Where indicated, this shows that the corresponding part is utilized only with this specific model number or model number variant.



The contents of this parts catalog are subject to change

Items Found In the "Items Number" Column

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

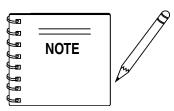


If more than one of the same

STOW MS-93 MIXER — SUGGESTED SPARE PARTS

MS-93 PLASTER AND MORTAR MIXER 1 TO 3 UNITS WITH HONDA GX240K1HA2 ENGINE

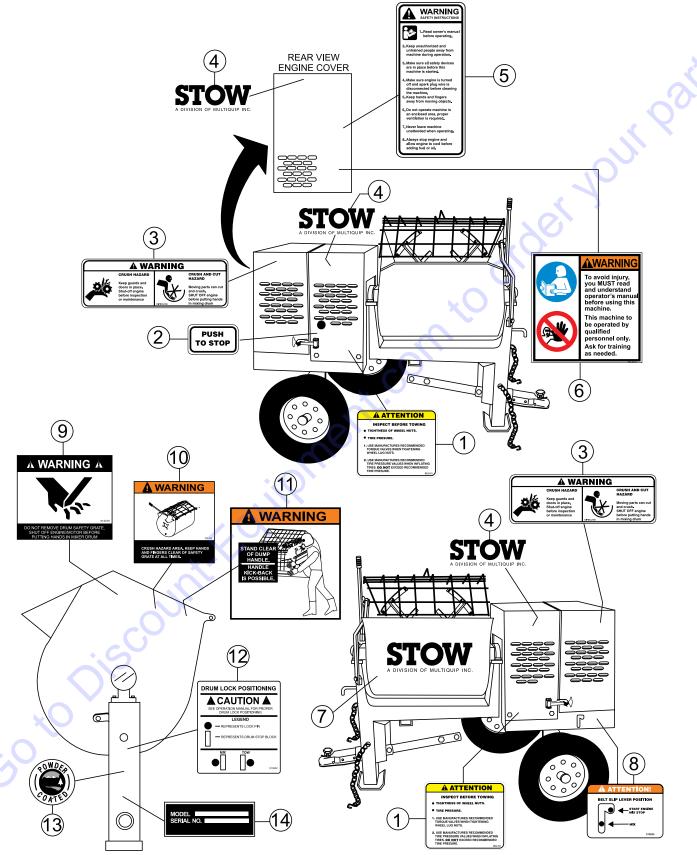
	6491112 2EM914288 4EM903113 420654-001 2530029 220104-002 2EM200863 317210ZE2515 39807956846 128462ZE2W11	V-BELT A41 HONDA ENGINEV-BELT A40 ELECTRIC MOTOROIL SEAL, AXLEBEARING, CONE, AXLEBEARING, CUP, AXLESEAL, PADDLE SHAFTRING, RETENTIONSEAL, SHAFT URETHANEKIT, WIPER BLADESELEMENT, AIR CLEANER	NOTE		gested Spare Parts List masupercede/replace the P/N shown in the test pages of the manual.
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1		STOW MS-93 MIXER — OPERATIO	N MANUAL — REV. #5(03/26/10) —	PAGE 39



Part numbers on this Suggested Spare Parts List may supercede/replace the P/N's shown in the test pages of this

STOW MS93 MIXER — NAMEPLATE AND DECALS

NAMEPLATE AND DECALS

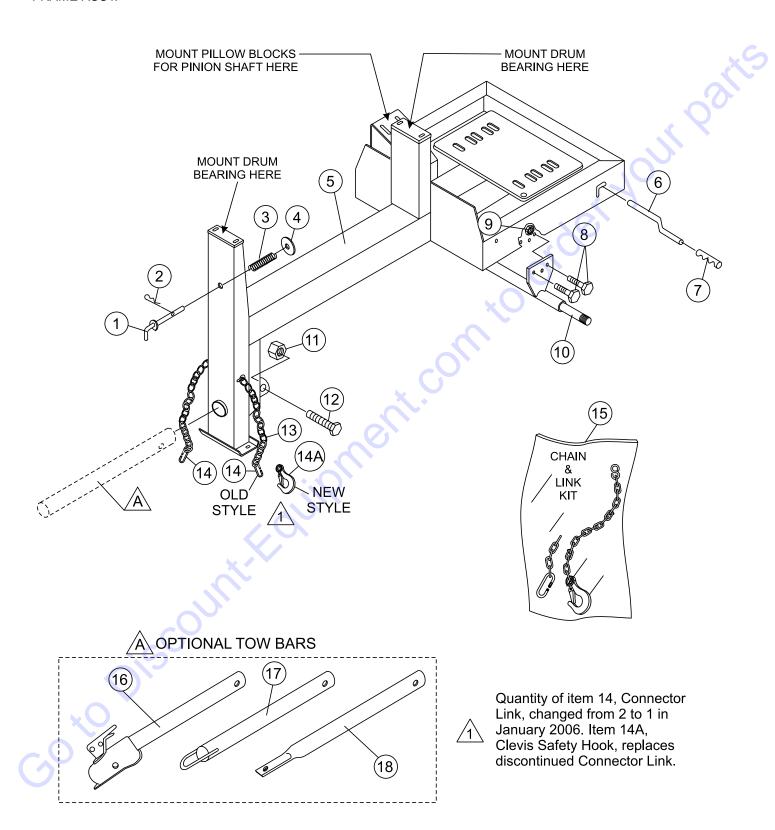


STOW MS93 MIXER — NAMEPLATE AND DECALS

NAMEPLATE AND DECALS

	PART NO	PART NAME	QTY.	<u>REMARKS</u>
1	DCL151	DECAL, TOWING INSTRUCTIONS	2	
2	EM948630	DECAL, PUSH TO STOP	1	
3	CIPDCL160	DECAL, CRUSH WARNING	2	
4	51064	DECAL, STOW LOGO (SMALL)	3	
5	504713	DECAL, SAFETY INSTRUCTIONS	1	
6	35137	DECAL, WARNING READ	1	
7	512527	DECAL, STOW LOGO (LARGE)	3	
8	513523	DECAL, BELT SLIP	1	
9	513479	DECAL, WARNING SAFETY GRATE	1	
10	DCL335	DECAL, CRUSH WARNING SAFETY GRATE	1	. 0
11	DCL280	DECAL, WARNING DUMP HANDLE	1	Ze
12	513522	DECAL, DRUM LOCK	1	40.
13	13118	DECAL, POWDER COATED	1	0,
14		NAMEPLATE	1	CONTACT PA
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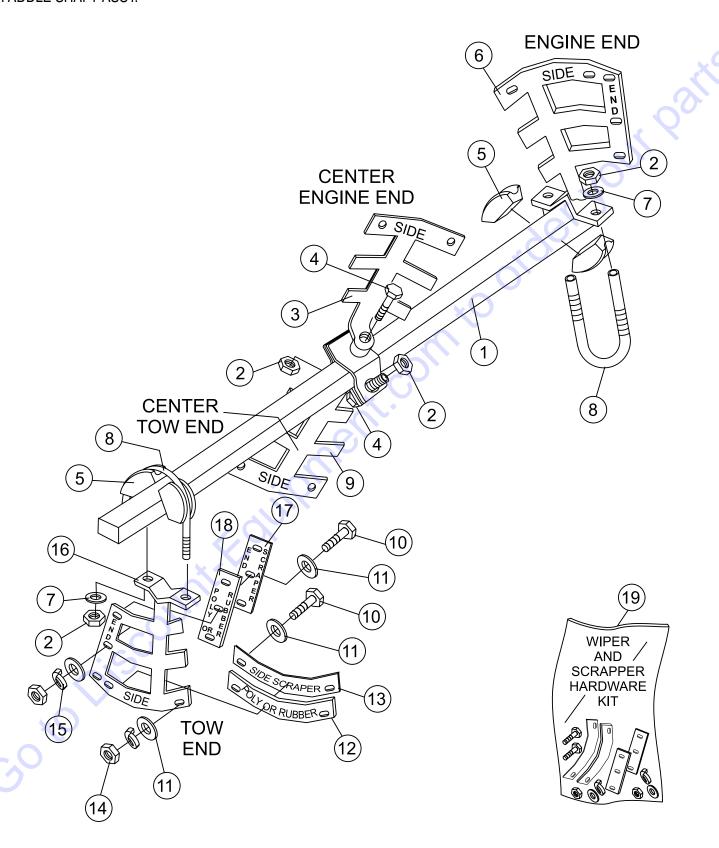
STOW MS93 MIXER — FRAME ASSY.

FRAME ASSY.

1 514842 LOCK, PIN 1 2 491692 COTTER PIN 1 3 530023 SPRING LOCKING PIN 1 4 507444 WASHER, FLAT 3/4" 1 5 514834 MAIN FRAME 1 6 530013 CLUTCH HANDLE LEVER 1 7 20278-001 CLUTCH HANDLE GRIP 1 8 EM963692 BOLT 1/2" UNC 1-1/2" 6 9 492584 NUT, LOCK 1/2" 6 10 514802 AXLE, UNIVERSAL 1 11 10176 LOCK NUT 1/2" NC 1 12 EM124 BOLT 1/2"-13 X 4 G5 1	der your
3 530023 SPRING LOCKING PIN 1 4 507444 WASHER, FLAT 3/4" 1 5 514834 MAIN FRAME 1 6 530013 CLUTCH HANDLE LEVER 1 7 20278-001 CLUTCH HANDLE GRIP 1 8 EM963692 BOLT 1/2" UNC 1-1/2" 6 9 492584 NUT, LOCK 1/2" 6 10 514802 AXLE, UNIVERSAL 1 11 10176 LOCK NUT 1/2" NC 1	der your
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15 13363KIT CHAIN AND LINK KIT 1	INCLUDES ITEMS W/^
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STOW MS93 MIXER — PADDLE SHAFT ASSY.

PADDLE SHAFT ASSY.



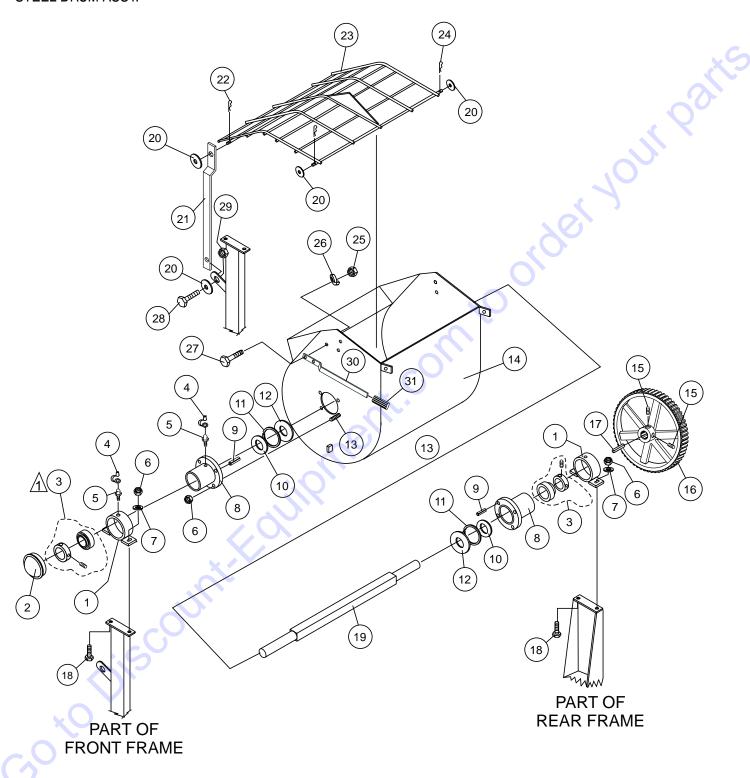
STOW MS93 MIXER — PADDLE SHAFT ASSY.

PADDLE SHAFT ASSY.

1 2	514752	PART NAME		
2		PADDLE SHAFT	1	
3	492584 EM200295	NUT, LOCK 1/2" PADDLE ARM, CENTER ENGINE END	6 1	
4	510721	BOLT, 1/2 " X 6" G5	2	O
5	EM200292	INSERT, PADDLE ARM	4	00
6	EM200296	PADDLE ARM, ENGINE END	1	4
7 8	504322 EM200297	WASHER, FLAT 1/2" U-BOLT, END PADDLES	6 2	
a	EM200294	PADDLE ARM, CENTER TOW END	1	10
10*	492367	SCREW, HHC 5/16-18 X 1-3/4 G5	14	
11*	EM923023	WASHER, FLAT 5/16"	28	
12 13*	EM200212 EM203432	BLADE, SIDE, RUBBER BLADE, SIDE, SCRAPPER	4 4 《	O.
11" 12* 13* 14* 15*	2105164	NUT, HEX 5/16" NC G5	14	
15*	EM923343	WASHER, LOCK 5/15"	14	
16 17*	EM200293 EM203433	PADDLE ARM, TOW END BLADE ,SCRAPPER END	2	
16 17* 18*	EM200213	BLADE, RUBBER END	2	
19	EM200863	KIT, WIPERS, SCRAPPERS & HDWARE	1	INCLUDES ITEMS W
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STOW MS93 MIXER — STEEL DRUM ASSY.

STEEL DRUM ASSY.



NOTES:

SET SCREWS AND BEARING COLLAR ARE INCLUDED WITH BEARING AND CANNOT BE PURCHASED SEPARATELY.

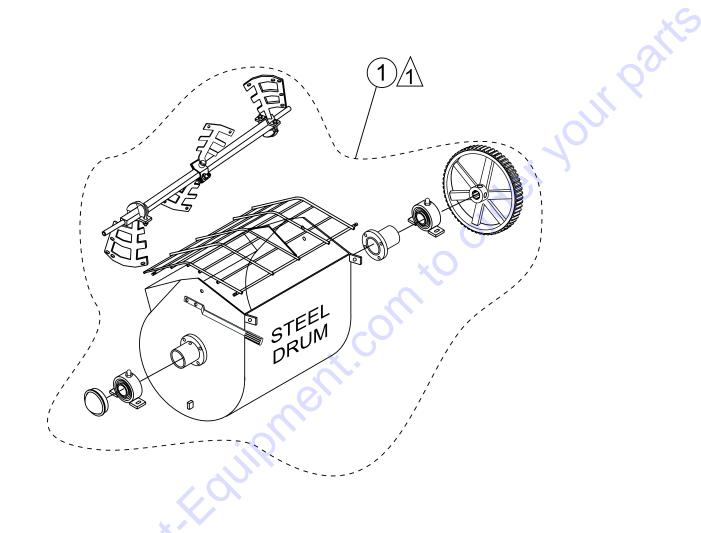
STOW MS93 MIXER — STEEL DRUM ASSY.

STEEL DRUM ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	530028Y	DRUM BEARING BRACKET	2	
2	3249	CAP, DUST	1	
3	20561-001	BEARING SEALED	2	SET SCREWS AND BEARING
				COLLAR CANNOT BE
PURC	CHASED			SEPARATELY.
4	491008	CAP, GREASE FITTING	2 2	A Y
5	EM916019	FITTING, GREASE		
6	EM969013	NUT, LOCK 3/8"	12	
7	3019092	WASHER, FLAT 3/8"	4	
8	514778Y	TRUNNION HUB	2	3
9	513453	ROLL PIN 3/16" X 3/4"	2	. 0
10	20654-001	SEAL, SHAFT (BLACK)	2 2 2 2	
11	530029	RING, RETENTION		40,
12	20104-002	SEAL, SHAFT URETHANE (YELLOW)	2	0,
13	513452	BOLT 3/8" NC X 1/4" G5	8	
14	514786Y	STEEL DRUM, YELLOW	1)	
15	492484	SET SCREW	2	
16	530043	MAIN GEAR	1	
17	500432	KEY, 3/8" X 50 MM	1	
18	17985-012	CARRIAGE BOLT 3/8-16 X 1-1/2"	4	
19	514752	SHAFT, PADDLE	1	
20	492600	WASHER, FLAT 1/2"	4	
21	514945Y	LIFT BAR	1	
22	EM925191	PIN, COTTER	1	
23	514946	GRATE	1	
24	505070	PIN, COTTER	2	
25	492556	HEX NUT 1/2" G5	2	
26	6109180	WASHER, LOCK 1/2"	2	
27	EM963692	BOLT 1/2" UNC 1-1/2"	2	
28	EM963102	CAPSCREW, HHCS 1/2" NC X 1-1/4"	1	
29	492584	NUT, LOCK1/2" NC	1	
30	EM201537Y	HANDLE DUMP	1	
31	15081	GRIP, DUMP HANDLE	1	

STOW MS93 MIXER — DRUM & PADDLE SHAFT COMPLETE ASSY.

DRUM AND PADDLE SHAFT COMPLETE ASSY.



NOTES:

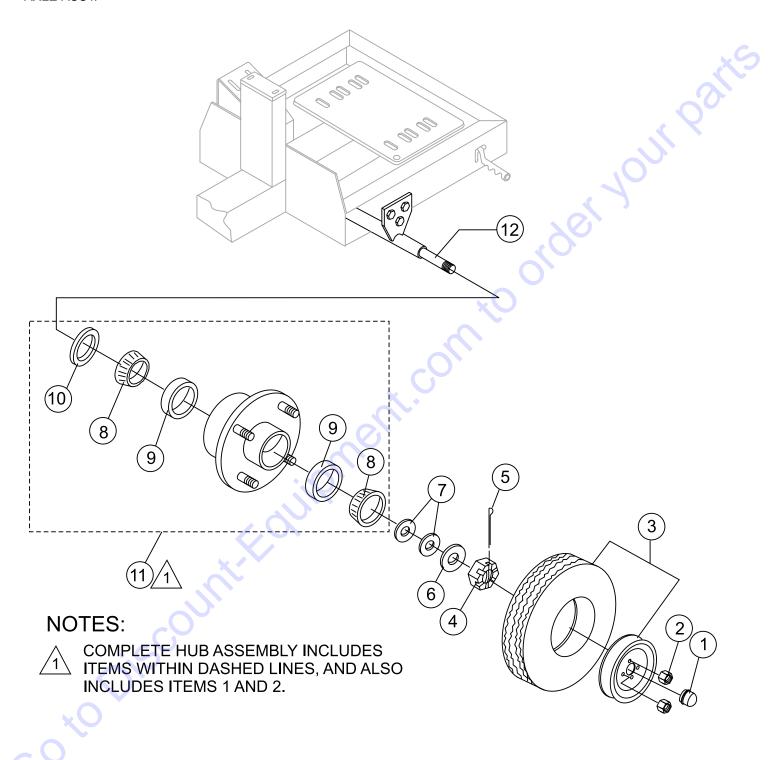
COMPLETE DRUM AND PADDLE SHAFT ASSEMBLIES ARE INCLUDED WITHIN DASHED LINES.

STOW MS93 MIXER — DRUM & PADDLE SHAFT COMPLETE ASSY.

DRUM AND PADDLE SHAFT COMPLETE ASSY.

NO.	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1	516071	DRUM AND SHAFT COMPLETE ASSY	1	INCLUDES ITEMS LISTED BELOW:
	530028Y	DRUM BEARING BRACKET	2	
	3249	CAP, DUST	1	
	20561-001	BEARING SEALED	2 2	
	491008	CAP, GREASE FITTING	2	500
	EM916019	FITTING, GREASE	2	
	EM969013	NUT, LOCK 3/8"	12	
	3019092	WASHER, FLAT 3/8"	4	
	514754Y	TRUNNION HUB		10
	513453	ROLL PIN 3/16" X 3/4"	2	
	20654-001	SEAL, SHAFT (BLACK)	2	
	530029	RING, RETENTION	2 2 2 2	
	20104-002	SEAL, SHAFT URETHANE (YELLOW)	2	40
	513452	BOLT 3/8" NC X 1/4" G5	8	
	514786	DRUM, STEEL	1	
	492484	SET SCREW	2.	
	530043	MAIN GEAR	1	
	500432	KEY, 3/8" X 50 MM		
	EM963057	CAPSCREW HHCS 3/8 X 1-1/2"	1	
	514752	SHAFT, PADDLE		
	492600	WASHER, FLAT 1/2"	2	
	514946	GRATE	1	
	505070	PIN, COTTER	2	
	492556	HEX NUT 1/2" G5		
	6109180	WASHER, LOCK 1/2"	2 2	
	EM963692	BOLT 1/2" UNC 1-1/2"	2	
	EM201537	HANDLE DUMP	1	
	15081	GRIP, DUMP HANDLE	1	
	514752	PADDLE SHAFT	1	
	492584	NUT, LOCK 1/2"	6	
	492304 EM200295	PADDLE ARM, CENTER ENGINE END	6	
			1	
	510721 EM200202	BOLT, 1/2 " X 6" G5	2	
	EM200292	INSERT, PADDLE ARM	4	
	EM200296	PADDLE ARM, ENGINE END	1	
	504322	WASHER, FLAT 1/2"	6	
	EM200297	U-BOLT, END PADDLES	2	
	EM200294	PADDLE ARM, CENTER TOW END	1	
	492367	SCREW, HHC 5/16-18 X 1-3/4 G5	14	
X	EM923023	WASHER, FLAT 5/16"	28	
	EM200212	BLADE, SIDE, RUBBER	4	
\cup	EM203432	BLADE, SIDE, SCRAPPER	4	
	2105164	NUT, HEX 5/16" NC G5	14	
	2105164 EM923343	WASHER, LOCK 5/15"	14	
	2105164 EM923343 EM200293	WASHER, LOCK 5/15" PADDLE ARM, TOW END	14 1	
	2105164 EM923343	WASHER, LOCK 5/15"	14	

AXLE ASSY.

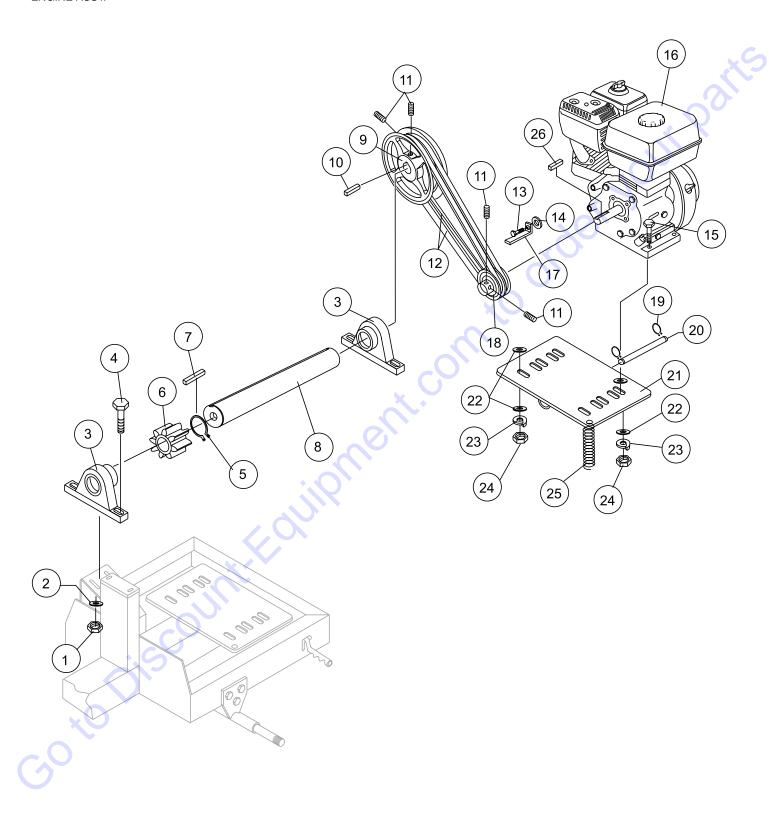


STOW MS93 MIXER — AXLE ASSY.

AXLE ASSY.

	NO	PART NO	PART NAME	QTY.	REMARK
	1# 2#	3469 8115	DUST CAP LUG NUTS	2 8	
	3	3005	TIRE AND RIM, CARLISE	2	
	4 5	8164 491688	CASTLE NUT 1" COTTER PIN 1/8" X 1-1/2'	2 2	500
	6	EM511159	WASHER, FLAT, .087" THICKNESS	2	X X
	7 8#	EM501299 EM903113	WASHER, FLAT, .135" THICKNESS BEARING CONE	1 4	
	9#	EM903012	BEARING CUP	4	10
	10# 11	EM914288 EM941306	OIL SEAL HUB ASSY., 4-BOLT	2 2	INCLUDES ITEMS W/#
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		SI	TOW MS-93 MIXER — OPERATION MANUAL — RE	V. #5 (03/26/10) –	- PAGE 51

ENGINE ASSY.

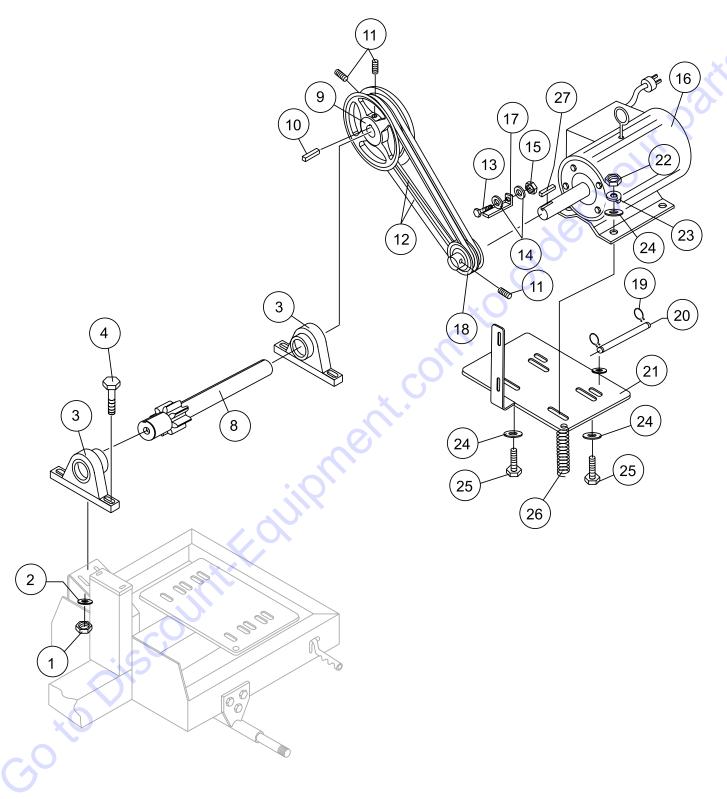


STOW MS93 MIXER — ENGINE ASSY.

ENGINE ASSY.

STOW MS93 MIXER — ELECTRIC MOTOR ASSY.

ELECTRIC MOTOR ASSY.

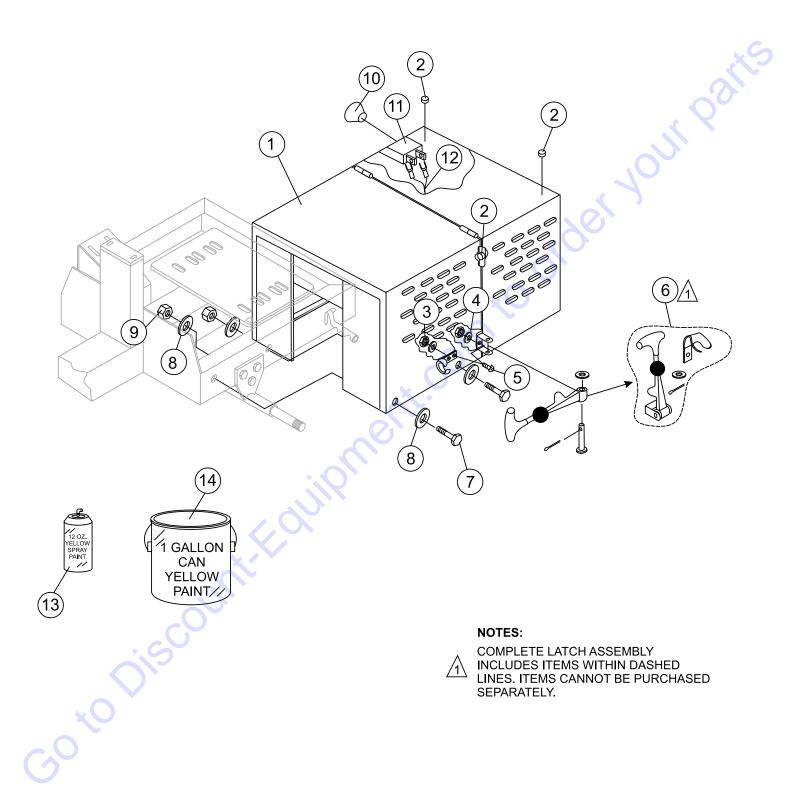


STOW MS93 MIXER — ELECTRIC MOTOR ASSY.

ELECTRIC MOTOR ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	492583	NUT 3/8" NC G5	4	
2	506488	FLAT WASHER 3/8	8	
3	EM905016	PILLOW BLOCK BEARING	2	
4	492378	BOLT 3/8" NC X 1-3/4" G5	4	
8	20216-000	PINION SHAFT	1	
9	20061-001	PULLEY (LARGE)	1	
10	500275	KEY, 1/4" X 40 MM	1	
11	492467	SET SCREW, 5/16' NC 3/8"	3	
12	491112	V-BELT, A-40	3 2 1	
13	0202	CAP SCREW 5/16"-18X 1"		
14	EM923023	WASHER, FLAT 5/16"	2	
15	492582	NUT, NYLON 5/16"-18	1	70.
16	493208	ELECTRIC MOTOR 2 HP	1	
17	514985	BELT RETAINER BAR	1 🦰	
18	502213	PULLEY, (SMALL)	1	
19	604445	RING, RÉTENTION	2	
20	530454	SHAFT, ENGINE MOUNT		
21	530089	ELECTRIC MOTOR MOUNTING PLAT	E 1	
22	2105164	NUT, HEX 5/16" NC	4	
23	492623	WASHER, LOCK 5/16"	4	
24	EM923023	WASHER, FLAT 5/16"	8	
25	492365	BOLT 5/16" NC X 1-1/4" G5	4	
26	530024	SPRING, EXTENSION	1	
27	502724	KEY, 3/16" X 30 MM	1	
	Olisco			
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CABINET ASSY.



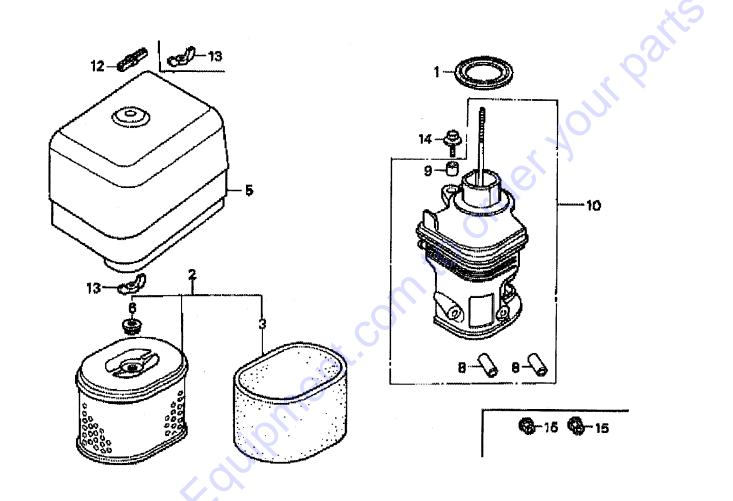
STOW MS93 MIXER — CABINET ASSY.

CABINET ASSY.

	NO	PART NO	PART NAME	QTY.	REMARKS
	1	515014	CABINET, ENGINE W/DECALS		INCLUDES ITEMS W/*
	2	490202	RUBBER PROTECTOR	4	DEDI ACEMENT DADT ONLY
		13287 2203	LOCK NUT 8-32 WASHER, FLAT #10 SCREW RHMS 8-32 X 1/2"	6	REPLACEMENT PART ONLY
	4 5	1307	VMSDER, FLAT #10 SCREW RHMS 8-32 X 1/2"	6	REPLACEMENT PART ONLY
	6*	491010	LATCH ASSY., COMPLETE	2	TEI EAGENENT TATTI ONEI
	5 6* 7	492375	BOLT 3/8" NC X 1" G5	4	
	8	492598	WASHER, FLAT 3/8"	4	100
	9	492583	NUT 3/8" NC G5	4	10
	10	29174-001	KNOB, MUSHROOM	1	~ ,
	11 12	29173-001 504135C	SWITCH, PUSH-PULL WIRE HARNESS	1	70.
	13	RAL1003S	PAINT, SPRAY CAN 12 OZ., YELLOW	AR	40
	14	RAL1003G	PAINT, GALLON CAN, YELLOW	AR	O'
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1		STO	W MS-93 MIXER — OPERATION MANUAL —	RFV #5 (0:	3/26/10) — PAGE 57
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HONDA GX240K1HA2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.



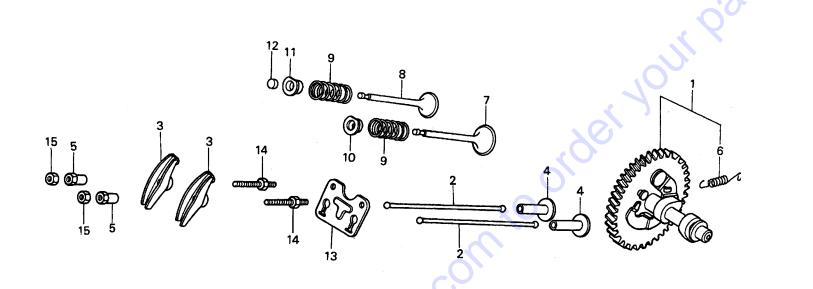
HONDA GX240K1HA2 ENGINE — AIR CLEANER ASSY.

AIR CLEANER ASSY.

NO. 1 2 3 5 6 8 # 9 # 10 12 13 14 15	PART NO. 16271ZE2000 17210ZE2515 17218ZE2505 17231ZH9820 17232891000 17238ZE2310 17239ZE1000 17410ZE2020 0037806000 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 1 2 1	REMARKS INCLUDES ITEM W/*
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	STOV	V MS-93 MIXER — OPERATION MANUAL	— REV. #5 (0	3/26/10) — PAGE 59

HONDA GX240K1HA2 ENGINE — CAMSHAFT ASSY.

CAMSHAFT ASSY.



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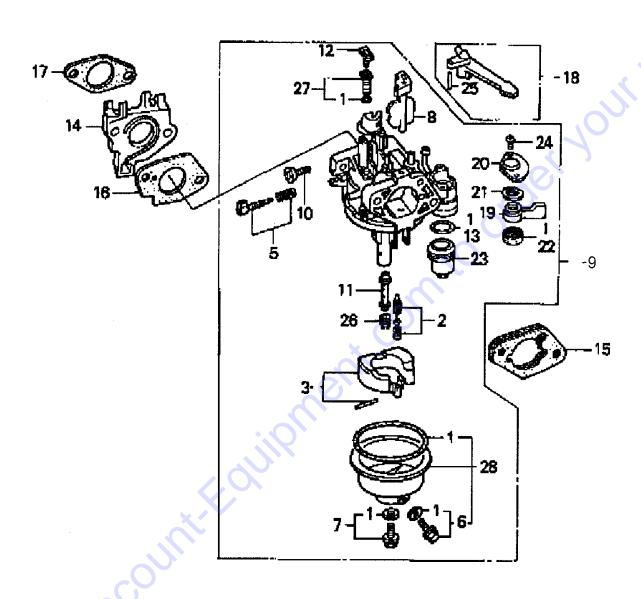
HONDA GX240K1HA2 ENGINE — CAMSHAFT ASSY.

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 14721ZE2000 14771ZE2000 14773ZE2000 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, EX. SPRING, VALVE RETAINER, IN. VALVE SPRING RETAINER, EX. VALVE SPRING ROTATOR, VALVE PLATE, PUSH ROD GUIDE BOLT, PIVOT ADJ.	QTY	REMARKS INCLUDES ITEM W/*
Gox	STOW	MS-93 MIXER — OPERATION MANUAL	— REV. #5 (03	3/26/10) — PAGE 61

HONDA GX240K1HA2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

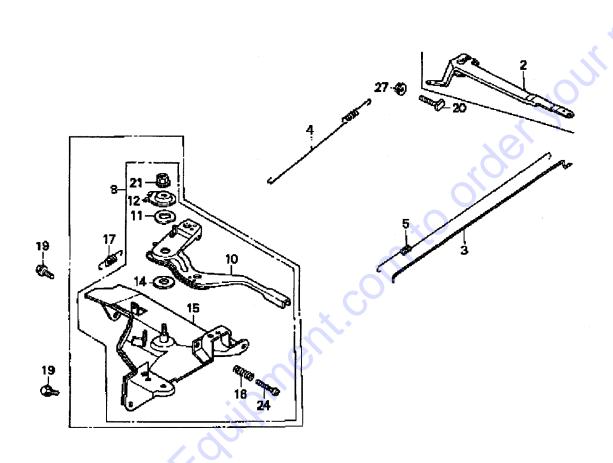


HONDA GX240K1HA2 ENGINE — CARBURETOR ASSY.

CARBURETOR ASSY.

<u>NO.</u>	PART NO.	PART NAME	QTY.	<u>REMARKS</u>
1*+ 2*	16010ZE2812	GASKET SET	1	
2*	16011ZA0931	VALVE SET, FLOAT	 	
٠ *	16013ZA0931	FLOAT SET	 	
5°*.	16016ZHW01	SCREW SET DRAIN	 	
0 + 7*.	16024ZE1811	SCREW SET, DRAIN SCREW SET B	 	
/* ⁺	16028ZE0005 16028ZE2005	CHOKE SET	 	
7*+ 8* 9*.	16100ZE2W71	CARBURETOR ASSY	 	INCLUDES ITEMS W/*
9 10*	16100ZE2W71 16124ZE0005	SCREW, THROTTLE STOP	 	INCLUDES ITENIS W/
11*	16124ZE0005 16166ZE2W70	NOZZLE, MAIN	1	
10*	16075GHBB00	COLLAR, SET	1	
12* 12* 13*	16075GHBB00	O-RING	1	(0)
14	16211ZE2000	INSULATOR, CARB.	1	.0
15	16220ZA0702	SPACER COMP., CARB.	1	
16	16221ZA0800	GASKET, CARBURETOR	1	
17	16223ZA0800	GASKET, INSULATOR	1	~O
18 10*	16610ZE1000	LEVER COMP., CHOKE, STD.	1	
19*	16953ZE1812	LEVER, VALVE	1	
/()	16954ZE1811	PLATE, LEVER SETTING	10	
21.*	16956ZE1811	SPRING, VALVE LEVER		
22*	16957ZE1812	GASKET, VALVE	1	
23 [*]	16967ZE0811	CUP, FUEL STRAINER	1	
23 [*] 24 [*]	93500030060H	SCREW, PAN 3 X 6	2	
25 25*	9430520122	PIN, SPRING 2 X 12	1	
26 *	99101ZH70820	JET, MAIN #82, OPTIONAL	1	
26	99101ZH70850	JET, MAIN #85, OPTIONAL	1	
26 [*] 27 [*]	99101ZH80880	JET, MAIN #88	1	
27 🔭	99204ZE20400	JET SET, PILOT #40	1	
28 [*]	16015ZE8005	CHAMBER SET, FLOAT	1	INCLUDES ITEMS W/+

CONTROL ASSY.



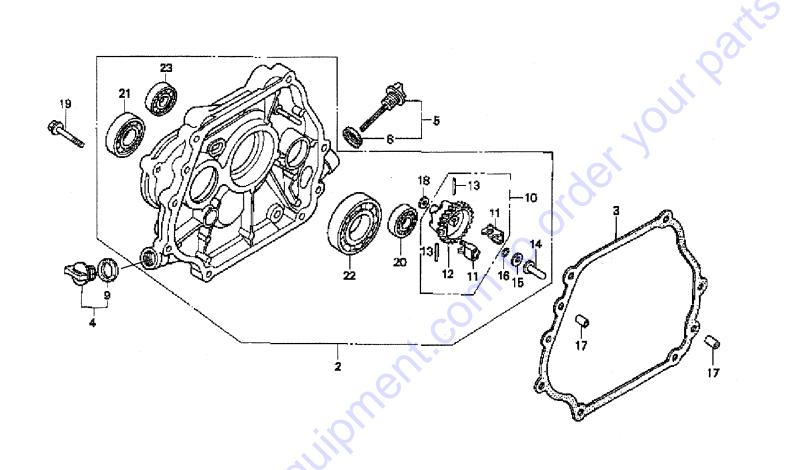
HONDA GX240K1HA2 ENGINE — CONTROL ASSY.

CONTROL ASSY.

NO. 2 3 4 5 8 ** 10** 12** 14** 15** 16 19 20 21** 24	16551ZE2000 16555ZE2000 16561ZE2000 16571ZE2000 16570ZE2W00 16571ZE2W00 16574ZE1000 16575ZE2W00 16578ZE1000 16581ZE2W00 16584883300 90013883000 90015ZE5010 90114SA0000	PART NAME ARM, GOVERNOR ROD, GOVERNOR SPRING, GOVERNOR SPRING, THROTTLE RETURN CONTROL ASSEMBLY LEVER, CONTROL SPRING, LEVER WASHER, CONTROL LEVER SPACER, CONTROL LEVER BASE, CONTROL SPRING, CONTROL ADJUSTING BOLT, FLANGE (6 X 12) (CT200) BOLT, GOVERNOR ARM NUT, SELF- LOCK (6MM) SCREW, PAN (5 X 28) NUT, FLANGE	QTY. 1 1 1 1 1 1 1 1 1 1 1 1 1	REMARKS INCLUDES ITEMS W/*
	STOW	MS-93 MIXER — OPERATION MANUAL —	REV. #5 (03/26	6/10) — PAGE 65

HONDA GX240K1HA2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.



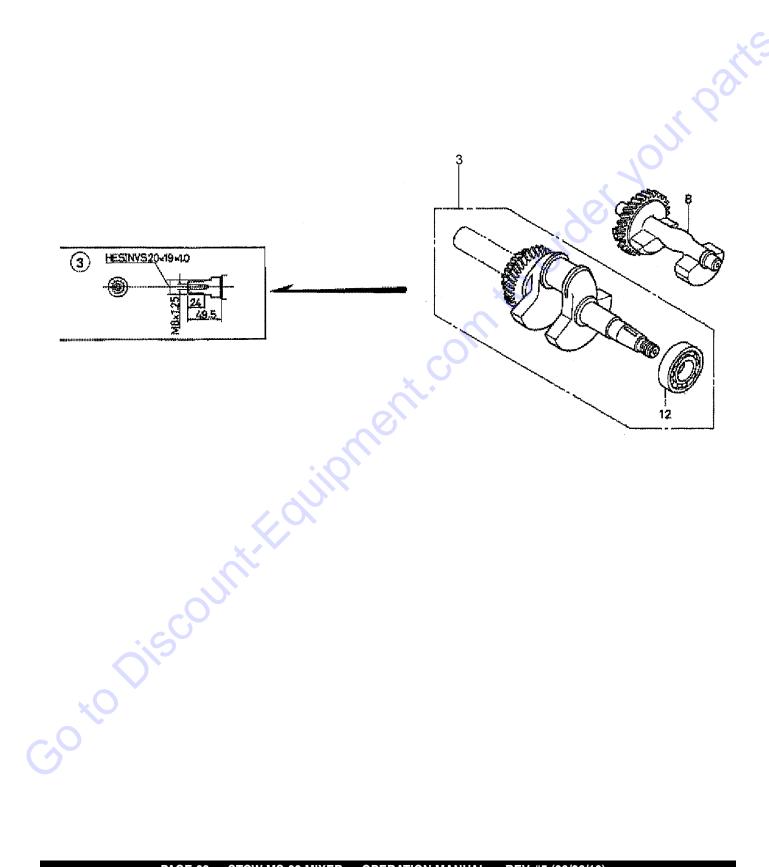
HONDA GX240K1HA2 ENGINE — CRANKCASE COVER ASSY.

CRANKCASE COVER ASSY.

<u>NO.</u> 2	PART NO. 11400ZE2621	,	<u>QTY.</u> 1	REMARKS 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 CAP GASKET, OIL FILLER CAP GASKET, OIL FILLER CAP		
10 11*+ 12*+ 13*+ 14* 15* 16* 17	16510ZE2811 16511ZE2000 16512ZE2811 16513ZE2000 16531ZE2000 90473147000 90602ZE1000 90701HC4000 58176 957010803500	GOVERNOR ASSEMBLY (BALANCER) WEIGHT, GOVERNOR HOLDER, GOVERNOR WEIGHT PIN, GOVERNOR WEIGHT SLIDER, GOVERNOR WASHER (6 X 16) CLIP, GOVERNOR HOLDER PIN, DOWEL (8 X 12) WASHER, PLAIN (6MM) BOLT, FLANGE (8 X 35)	1	INCLUDES ITEMS W/+
19 20* 21* 22* 23*	961006202000 961006204000 961006206000 961006302000	BEARING, RADIAL BALL (6202) BEARING, RADIAL BALL (6204) BEARING, RADIAL BALL (6206) BEARING, RADIAL BALL (6302)	1 1 1 1	
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	STOW MS	-93 MIXER — OPERATION MANUAL — REV	. #5 (03/26/	10) — PAGE 67

HONDA GX240K1HA2ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.



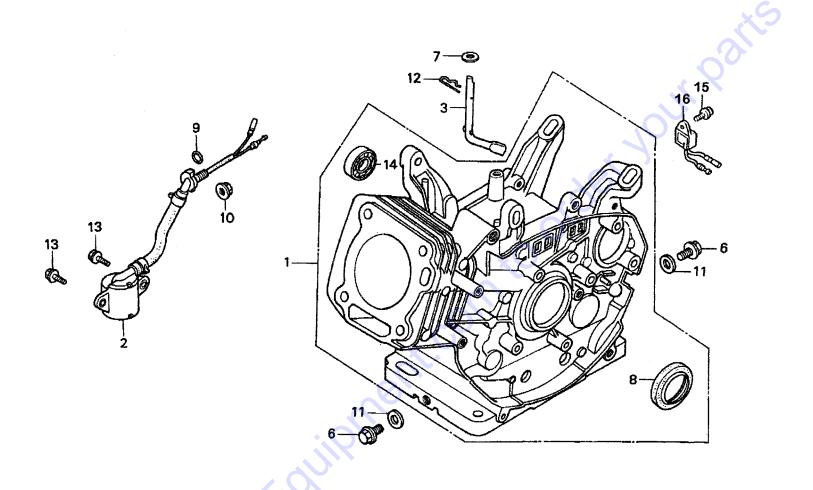
HONDA GX240K1HA2ENGINE — CRANKSHAFT ASSY.

CRANKSHAFT ASSY.

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

CYLINDER BARREL ASSY.



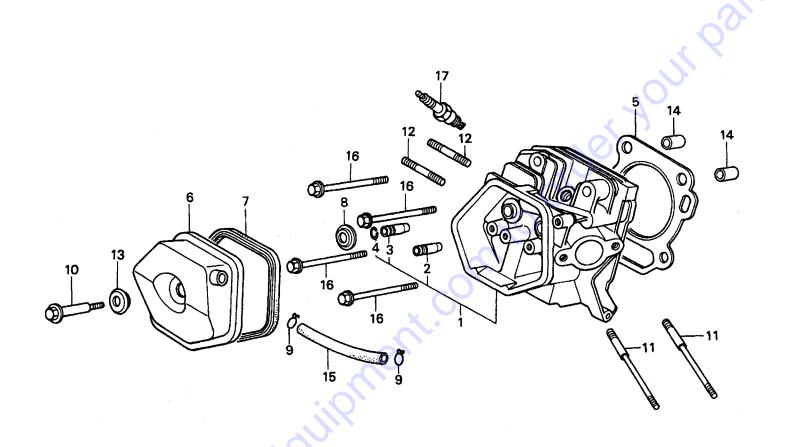
HONDA GX240K1HA2 ENGINE — CYLINDER BARREL ASSY.

CYLINDER BARREL ASSY.

NO. 1 2 3 6 7 8 9 10 11 12 13 14 15 16	PART NO. 12000ZE2834 15510ZE2043 16541ZE2010 90131896650 90446KE1000 91201890003 91353671003 9405010000 031112230 9425110000 957010601200 961006202000 90013883000 34150ZH7003	PART NAME CYLINDER ASSY., BALANCER + OIL ALERT SWITCH ASSY., OIL LEVEL SHAFT, GOVERNOR ARM BOLT, DRAIN PLUG WASHER 8.2 X17X0.8 OIL SEAL 30X46X8 O-RING 14MM ARAI NUT FLANGE 10MM WASHER, DRAIN PLUG 12MM PIN, LOCK 10MM BOLT, FLANGE 6X12 BEARING, RADIAL BALL 6202 BOLT, FLANGE 6X12 CT200 ALERT UNIT, OIL	QTY1	REMARKS INCLUDES ITEMS W/*
GOX	STOW	MS-93 MIXER — OPERATION MANUAL — REV. #5	(03/26/10)	— PAGE 71

HONDA GX240K1HA2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

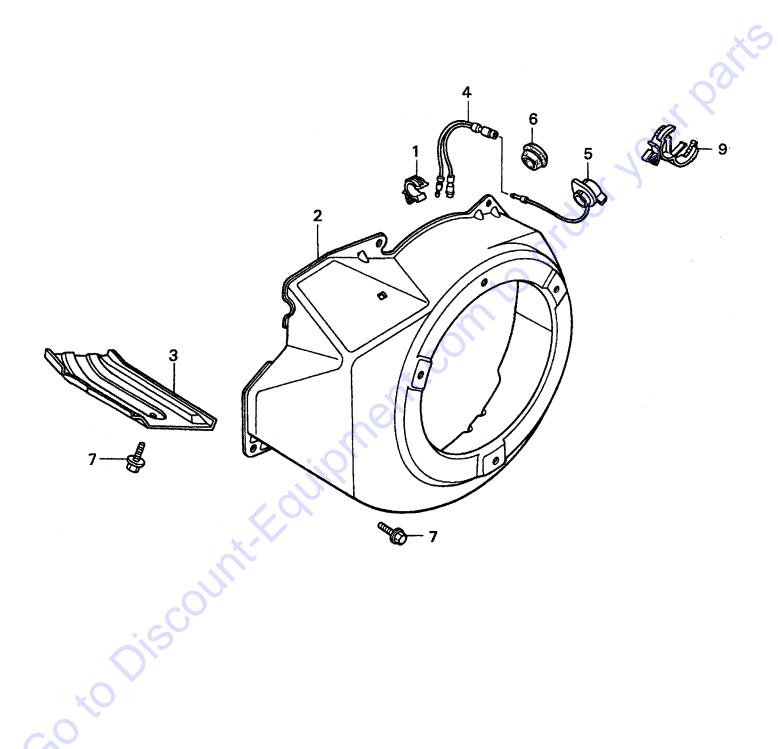


HONDA GX240K1HA2 ENGINE — CYLINDER HEAD ASSY.

CYLINDER HEAD ASSY.

	NO. 1 2 4 3 4 5 6 7 11 12 13 14 15 16 17	PART NO. 12200ZH9000 12204ZE2306 12205ZE2305 12216ZE2300 12251ZE2800 12310ZE2020 12391ZE2020 14775ZE2010 90014ZE2000 90042ZE2000 92900080320E 90441ZE2010 9430112200 950051100130M 957011008000 9807956846 9807956855	PART NAME CYLINDER HEAD COMP	QTY. 1 1 1 1 1 1 2 2 1 2 1 1 1 1 1	REMARKSINCLUDES ITEMS W/*
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l		STOW M	IS-93 MIXER — OPERATION MANUAL — REV. #	(03/26/10) -	— PAGE 73

FAN COVER ASSY.

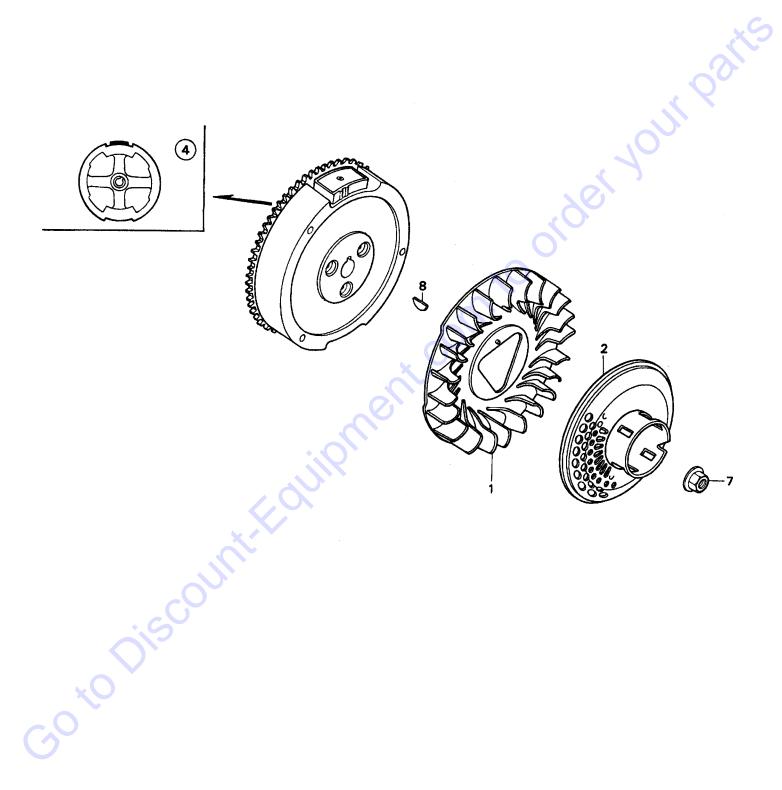


HONDA GX240K1HA2 ENGINE — FAN COVER ASSY.

FAN COVER ASSY.

NO.	COVER ASSY. <u>PART NO.</u>	PART NAME	QTY.	REMARKS
1	16731ZE2003 19610ZE2010ZC	CLIP, TUBE	1	
2 3	19631ZE2D00	COVER COMP., FAN *NH1* BLACK SHROUD	1	
4 5	32197ZH8003 36100ZE1015	SUB-HARNESS SWITCH ASSY., ENGINE STOP	1 1	
7	90013883000	BOLT, FLANGE 6X12, CT200	6	Y >.
9	90684ZA0601	CLIP, WIRE HARNESS	1	
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		Jillywey		
		COLINAGIO		
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		Mirkoliipmen		
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	Oiscoil	Jnt. Folilphne n.		
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FLYWHEEL ASSY.

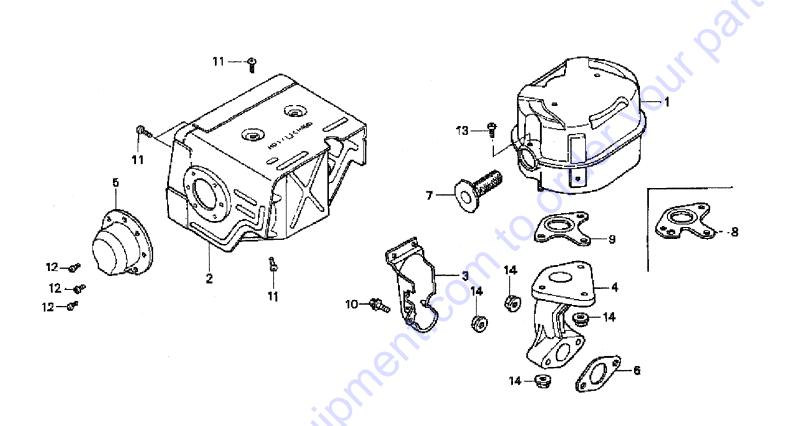


HONDA GX240K1HA2 ENGINE — FLYWHEEL ASSY.

FLYWHEEL ASSY.

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

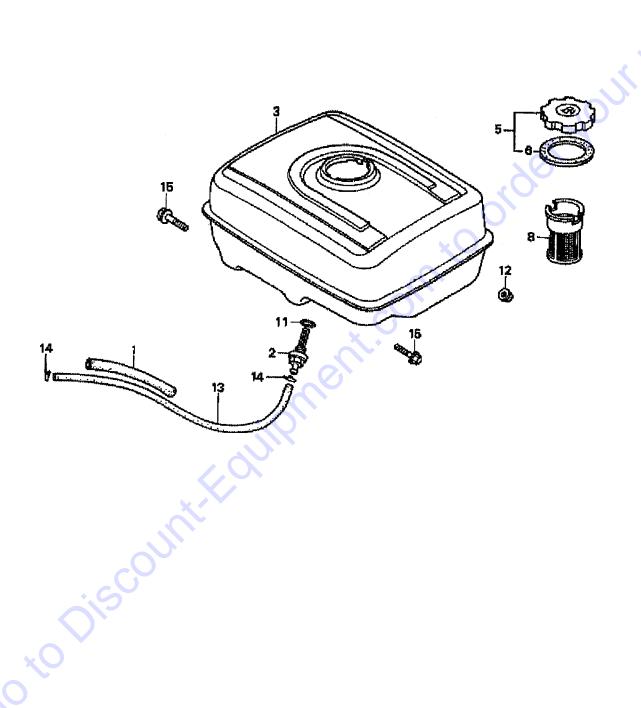


HONDA GX240K1HA2 ENGINE — MUFFLER ASSY.

MUFFLER ASSY.

NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	PART NO. 18310ZE2W00 18320ZE2W01 18323ZE2W00 18330ZE2W00 18331ZE2810 18333ZK6Y00 18355ZE2010 18381ZE2W10 18381ZE2W10 18381ZE2800 90013883000 90050ZE1000 90055ZE1000 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 (4 X 6) SCREW, TAPPING (5 X 8) (OPTIONAL) NUT, FLANGE (8MM)	QTY. 1 1 1 1 1 1 1 5	REMARKS
		At. F. Olilo Ment. Con		
COX	STOW	MS-93 MIXER — OPERATION MANUAL — REV	/. #5 (03/2	6/10) — PAGE 79

FUEL TANK ASSY.

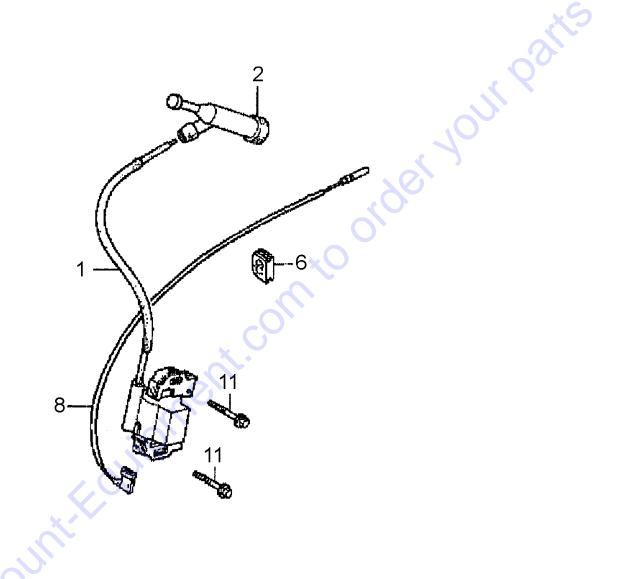


HONDA GX240K1HA2 ENGINE — FUEL TANK ASSY.

FUEL TANK ASSY.

NO. 1 2 3 5 * 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	1 1 1 2 1 2 2	REMARKSINCLUDES ITEMS W/*
	STOW	MS-93 MIXER — OPERATION MANUAL — REV. #		— PAGE 81

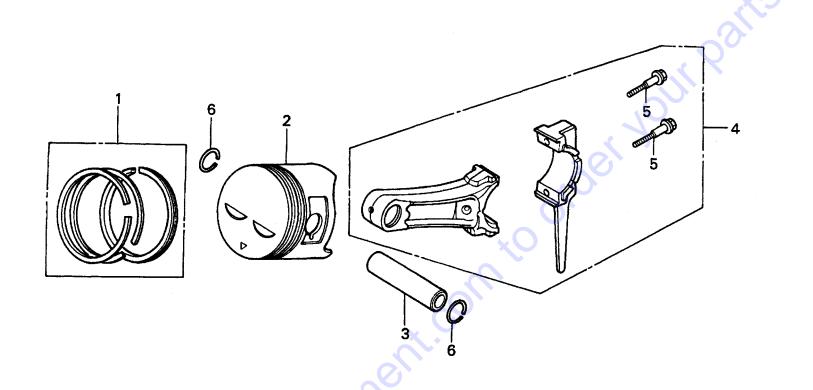
IGNITION COIL ASSY.



HONDA GX240K1HA2ENGINE — IGNITION ASSY.

NO	TION COIL ASSY.	DA DT NAME	OTV	DEMARKS
NO. 1 2 6 8 11	PART NO. 30500ZF6W02 30700ZE1013 31512ZE2000 36101ZE1010 90015883000	PART NAME COIL ASSY., IGNITION CAP ASSY., NOISE SUPPRESSOR GROMMET, WIRE WIRE, STOP SWITCH 370MM BOLT, FLANGE 6X28	QTY. 1 1 1 1 2	REMARKS
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PISTON ASSY.



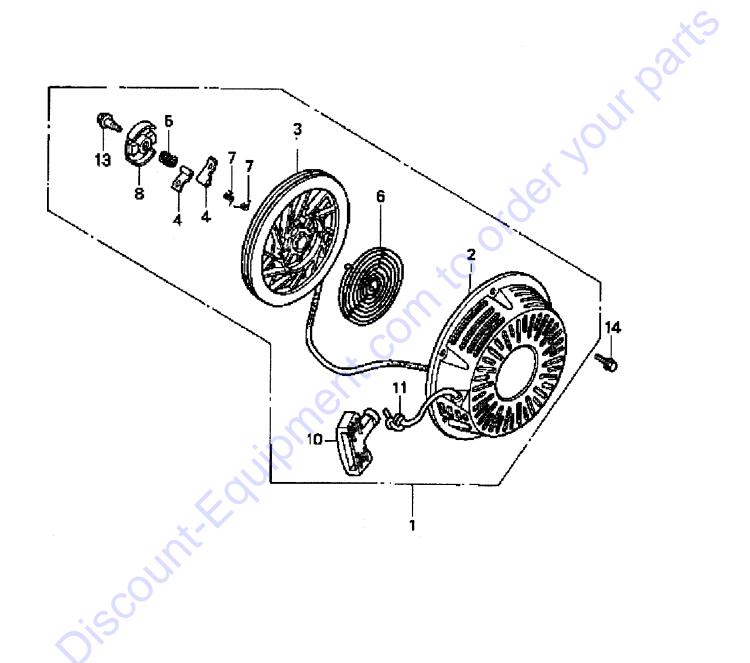
HONDA GX240K1HA2 ENGINE — PISTON ASSY.

PISTON ASSY.

NO. 1 1 1 2 2 2 2 3 4 4 5* 6	PART NO. 13010ZE2013 13011ZE2013 13012ZE2013 13013ZE2013 13101ZE2W00 13102ZE2W00 13103ZE2W00 13104ZE2W00 13111ZE2000 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 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 2 2	REMARKSINCLUDES ITEMS W/*
	o Discol	nt-Edilphent.com		
GO,		MS-93 MIXER — OPERATION MANUAL — REV. #	[‡] 5 (03/26/10)	— PAGE 85

HONDA GX240K1HA2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.



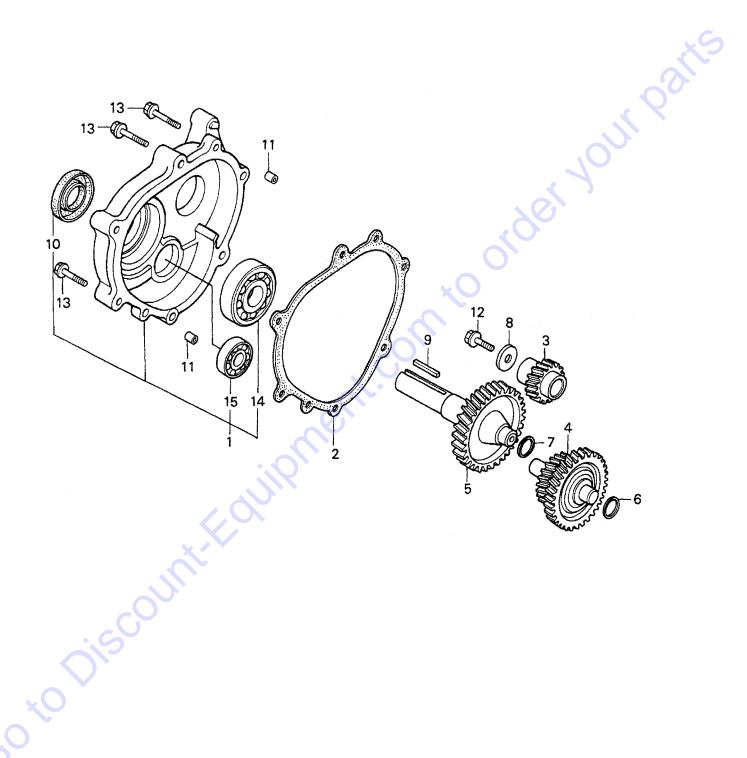
HONDA GX240K1HA2 ENGINE — RECOIL STARTER ASSY.

RECOIL STARTER ASSY.

NO. 1 * 2 * 3 * 4 * 5 * 6 * 7 * 8 * 10 * 11 * 13 * 14	PART NO. 28400ZE2W01ZB 28410ZE2W01ZB 28421ZE2W01 28422ZE2W01 28441ZE2W01 28442ZE2W01 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	QTY 1 1 1 2 1 1 2 1 1 3	REMARKS INCLUDES ITEMS W/*
		L.F. Oliloment.		
GOX	STOW MS-	93 MIXER — OPERATION MANUAL — REV. #5 (03	3/26/10) —	- PAGE 87

HONDA GX240K1HA2 ENGINE — GEAR REDUCTION ASSY.

GEAR REDUCTION ASSY.

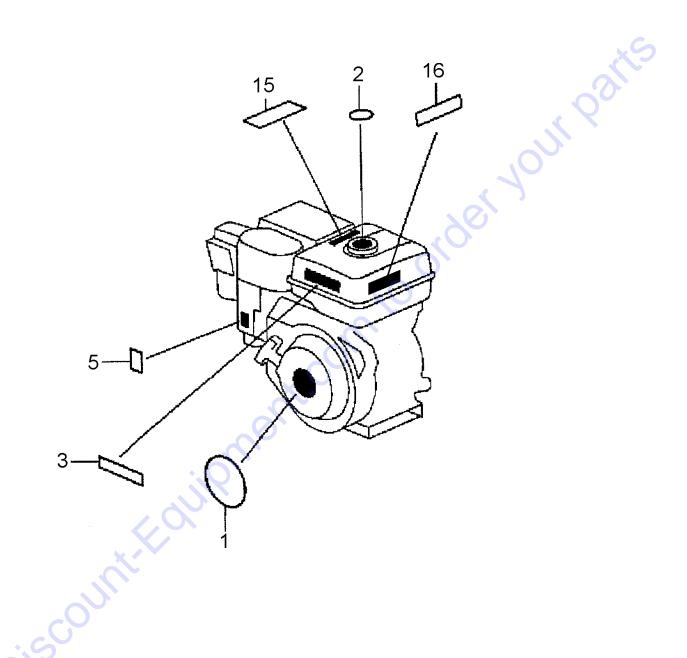


HONDA GX240K1HA2 ENGINE — GEAR REDUCTION ASSY.

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)	QTY1	REMARKS INCLUDES ITEMS W/*
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LABEL ASSY.



HONDA GX240K1HA2 ENGINE — LABEL ASSY.

LABELS ASSY.

NO. 1 2 3 5 15 16	PART NO. 87521ZE2W01 87522ZE1810 87522ZH9000 87528ZE2810 87586ZH7W00 87532ZH8810	PART NAME EMBLEM, INTERNAL MARK, CAUTION, EXTERNAL LABEL, CAUTION MARK, CHOKE, EXTERNAL LABEL, FUEL CAUTION MARK, OIL ALERT	QTY. 1 1 1 1 1	REMARKS ALL ALL ALL ALL ALL ALL ALL A
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		EMBLEM, INTERNAL MARK, CAUTION, EXTERNAL LABEL, CAUTION MARK, CHOKE, EXTERNAL LABEL, FUEL CAUTION MARK, OIL ALERT	-0 ¹	
	Oiscoli	N. F.O.		
COX				
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