OPERATION AND PARTS MANUAL

STOW®

A DIVISION OF MULTIQUIP INC.

MODELS
C10SH8 (STEEL)
C10PH8 (PLASTIC)
CONCRETE MIXER
(HONDA GX240U1QA2 GASOLINE ENGINE

Revision #1 (09/15/11)

To find the latest revision of this publication, visit our website at: www.stowmfg.com

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

⚠ WARNING ⚠

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:

- **Lead from 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: ALWAYS 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.

⚠ WARNING

SILICOSIS WARNING

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

⚠ WARNING

RESPIRATORY HAZARDS

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

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

C10SH8-PH8 Concrete Mixer

Component Drawings

NOTICE

Specifications and part numbers are subject to change without notice.

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

SAFETY MESSAGES

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

SAFETY SYMBOLS

DANGER

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

WARNING

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

CAUTION

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

NOTICE

Addresses practices not related to personal injury.

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

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Rotating parts hazards

GENERAL SAFETY

⚠ CAUTION

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

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

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

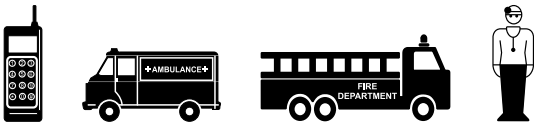
- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.
- **ALWAYS** check the equipment for loosened threads or bolts before starting.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.

NOTICE

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

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

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



MIXER SAFETY

⚠ DANGER

- **NEVER** operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe **bodily harm or even death.**
- **DO NOT** mix **flammable** or **explosive** substances.

⚠ WARNING

- **NEVER** place your hands inside the drum while starting or operating this equipment.
- **NEVER** disconnect any **emergency or safety devices.** These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.
- Before operating mixer, ensure that safety grate is in position and correctly fitted.

⚠ CAUTION

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

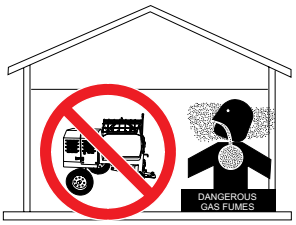
NOTICE

- **ALWAYS** keep the machine in proper running condition.
- **ALWAYS** ensure mixer is on level ground before mixing.
- Fix damage to machine and replace any broken parts immediately.
- **DO NOT** tip mixer onto drum mouth when the drum is rotating.
- Ensure the drum is rotating while filling and emptying the drum.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

ENGINE SAFETY (GASOLINE MODELS ONLY)

⚠ DANGER

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



⚠ WARNING

- **DO NOT** place hands or fingers inside engine compartment when engine is running.
- **NEVER** operate the engine with heat shields or guards removed.

- Keep fingers, hands hair and clothing away from all moving parts to prevent injury.
- **DO NOT** remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the mixer.

⚠ CAUTION

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing equipment.
- Make certain the operator knows how to and is capable of turning the engine OFF in case of an emergency.

NOTICE

- **NEVER** run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.

- **NEVER** tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable.

FUEL SAFETY (GASOLINE MODELS ONLY)

DANGER

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

GENERATOR SAFETY

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

ELECTRIC MOTOR SAFETY (ELECTRIC MODELS ONLY)

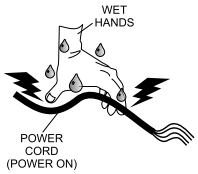
NOTICE

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

Power Cord/Cable Safety

DANGER

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



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

CAUTION

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

NOTICE

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

TRANSPORTING SAFETY

CAUTION

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

NOTICE

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

TOWING SAFETY

⚠ CAUTION

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

ENVIRONMENTAL SAFETY

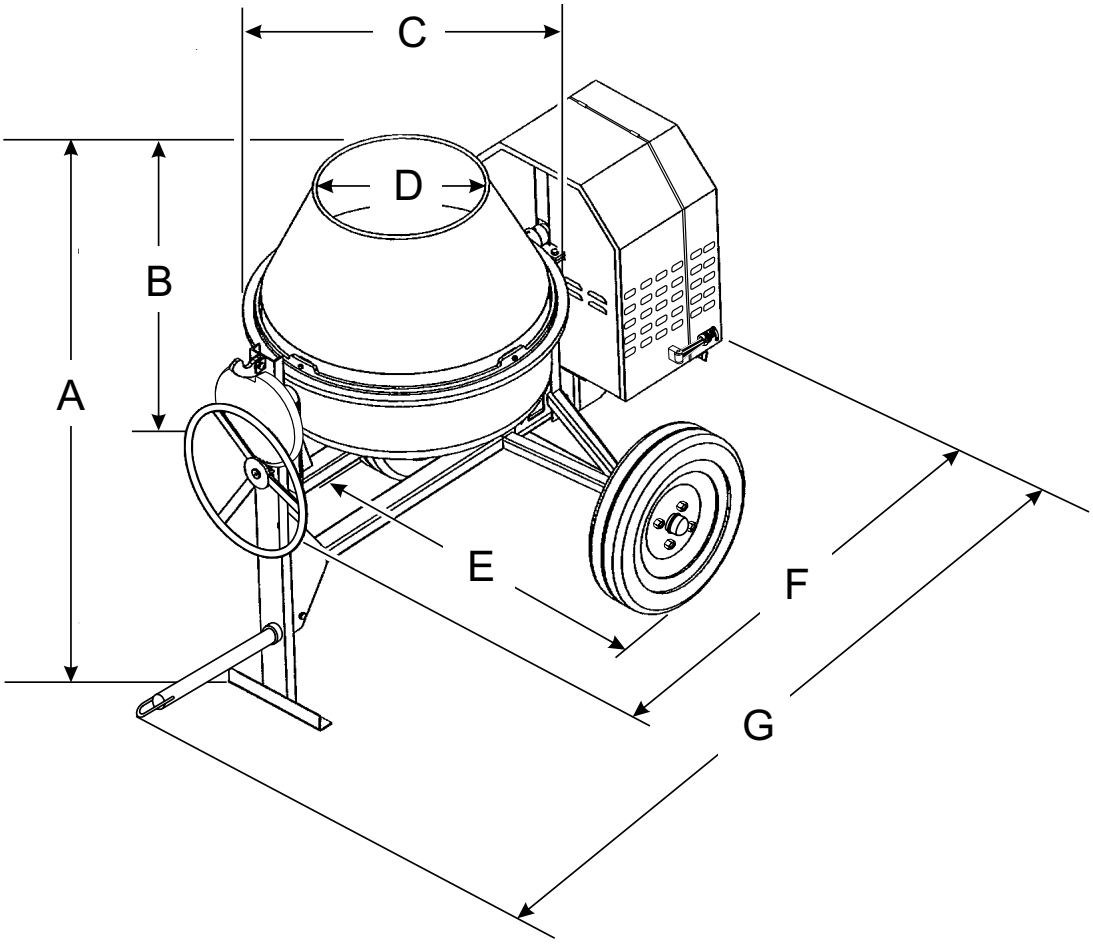
NOTICE

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

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

Table 1. Mixer Specifications		
Model	C10SH8	C10PH8
Drum Material	Steel	Polyethylene
Bag Capacity	1	1
Drum Capacity — cu.ft. (liters)	9.0 (255)	9.0 (255)
Discharge Height — in. cm.	21.5 (55)	21.5 (55)
Drum Opening — in. cm.	20.0 (51)	19.2 (49)
Drum Depth — in. cm	29 (74)	28 (71)
Tires	B78 x 13	B78 x 13
Drive	V-Belt	V-Belt
Dump Action	Manual	Manual
Weight - With Engine	600 lbs. (272 Kg.)	620 lbs. (281 Kg.)

Table 2. Engine Specifications		
Engine	Model	HONDA GX240U1QA2
	Type	Air-cooled 4 stroke, Single Cylinder, OHV, Horizontal Shaft Gasoline Engine
	Bore X Stroke	2.90 in. X 2.30 in. (73 mm x 58 mm)
	Displacement	14.81 cc
	Max Output	8.0 H.P./3600 R.P.M.
	Fuel Tank Capacity	Approx. 1.59 U.S. Gallons (6 Liters)
	Fuel	Unleaded Gasoline
	Lube Oil Capacity	2-1/3 pints
	Speed Control Method	Centrifugal Fly-weight Type
	Starting Method	Recoil Start
Dimension (L x W x H)		14.0 x 16.9 X 16.1 in. (355 X 430 X 410 mm)
Dry Net Weight		55.1 lbs (25 Kg.)



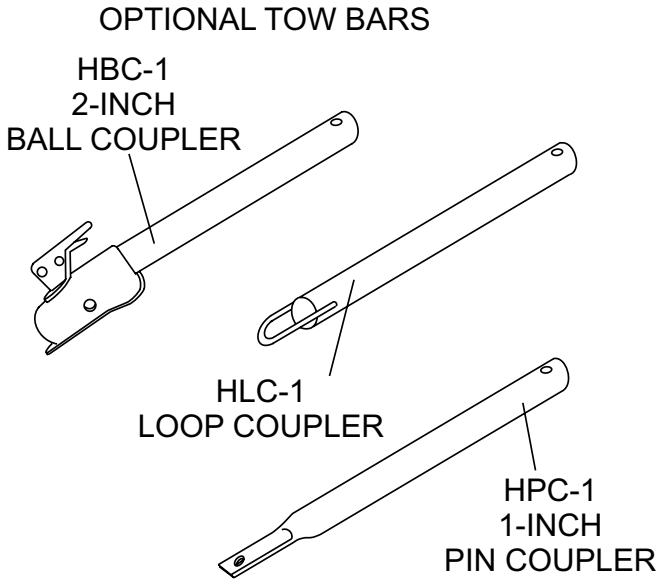


Table 3. Dimensions		
Reference Letter	Description	Dimension
A	Height	61 in. (1545 mm)
B	Drum height	30 in. (765 mm)
C	Drum width	38.6 in. (980 mm)
D	Drum neck diameter	21.1 in. (535 mm)
E	Width	45.7 in. (1160 mm)
F	Length, no tow bar	74.5 in. (1892 mm)
G	Length with tow bar	92.7 in. (2355 mm)

Figure 1. Dimensions

APPLICATION

This mixer is only intended for the production of concrete. The mixer must be used for its intended purpose and is not suitable for the mixing of flammable or explosive substances. The mixer must not be used in an explosive atmosphere. Use Table 5 (Mixing Hints) as a guide when mixing concrete for various applications.

POWER PLANTS

The Stow C10SH8 and C10PH8 mixers are powered by an air-cooled, 4-stroke Honda GX240U1QA2 gasoline engine. Refer to Table 2 for engine specifications.

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 the 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 more detailed engine maintenance information, refer to the Honda engine owner's manual supplied with the engine.

Table 5. Mixing Hints

Applications	Mix Ratios	Batch Quantities					Approx. Batch Output	
		Cement 112 lbs. (50 Kgs.) Bag	Sand		Stone			
			Cu. Ft.	Ltr	Cu. Ft.	Ltr	Cu.Ft.	Ltr
Most Ordinary	1:2:4	1/2 Bag	1-1/4	35	2-1/2	71	3	85
Foundations	1:3:6	1/3 Bag	1-1/4	35	2-1/2	71	2-3/4	78
Rough Mass Concrete	1:4:8	1/4 Bag	1-1/4	35	2-1/2	71	2-3/4	78
Watertight Floors, Tanks, Pits, Etc.	1:1-1/2:3	2/3 Bag	1-1/4	35	3	71	3	85

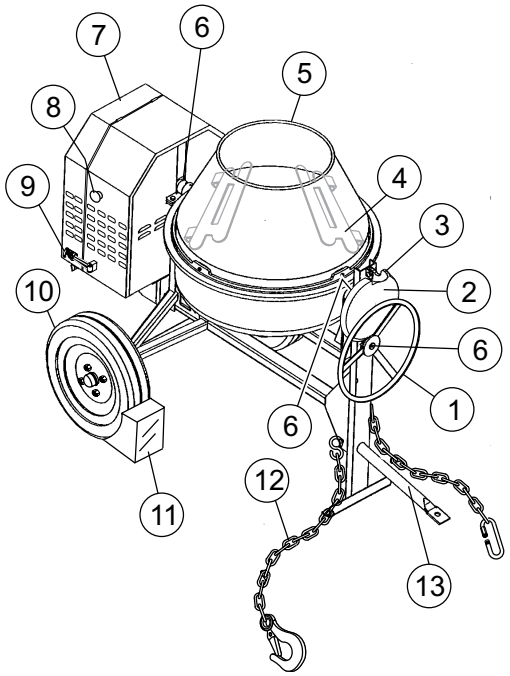


Figure 2. Major Components

Figures 2 shows the location of the controls and components for the C10SH8-PH8 mixer. The function of each control is described below.

1. **Handwheel** — Turn this wheel clockwise or counter-clockwise to rotate the mixing drum. Remember the dump latch must be in the up position in order for the mixing drum to be rotated.
2. **Dump Gear Guard** — **NEVER** operate the mixer with this guard removed. Its purpose is to prevent dirt and debris from entering the dump gear. In addition operator clothing could become entangled in the dump gear, causing severe injury and bodily harm.
3. **Dump Latch** — To rotate the mixing drum, this latch must be in the up position. To lock the drum, place the latch in the down position.
4. **Mixing Blades (Steel or Plastic)** — Used for the mixing of concrete. Replace plastic blades when they show signs of wear. When steel blades show signs of wear, entire steel mixing drum assembly must be replaced. See steel and plastic mixing drum assemblies in the parts section of this manual.
5. **Mixing Drum** — The C10SH8 uses a 6 cu. ft steel mixing drum and the C10PH8 uses a 6 cu. ft. plastic mixing drum. This drum is to be used for mixing of concrete. Always clean the drum after each use. **DO NOT** use this mixing drum for the mixing of volatile liquids.
6. **Zerk Fittings** — There are three zerk fittings on the mixer that lubricate the handwheel, gear and yoke. Lubricate fittings as referenced in the maintenance section of this manual.
7. **Engine Cabinet** — Encloses engine. **NEVER** run mixer with cabinet removed.
8. **ON/OFF Switch** — This switch is located on the side of the mixer frame. When activated it will shut down the engine. Pull out when starting the engine.
9. **Cabinet Latch** — Use latches to secure engine cabinet.
10. **Tire Ply** — The tire ply (layers) number is rated in letters; This mixer uses 13-inch 2-ply tires. Replace with only recommended type tires.
11. **Chock Blocks** — Place these blocks (not included as part of the mixer package) under each mixer wheel to prevent rolling when mixer is not connected to the towing vehicle.
12. **Safety Chain** — This mixer uses a 3/16-inch thick, 72-inches long zinc-plated saftey chain. **ALWAYS** connect the safety chain when towing.
13. **Tow Bar** — This mixer uses various towing bars. Please reference the frame assembly drawing and parts list in this manual to determine which tow bar meets your requirements

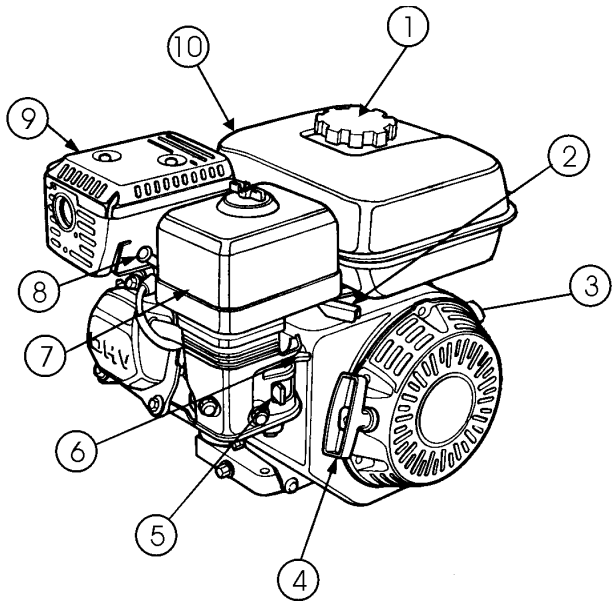


Figure 3. Engine Components (Honda GX Series Engine Shown)

The engine (Figure 3) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions and details of operation and servicing.

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

DANGER

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.

2. **Throttle Lever** — Used to adjust engine RPM speed (lever advanced forward **SLOW**, lever back toward operator **FAST**).
3. **Engine ON/OFF Switch** — ON position permits engine starting. OFF position stops engine operations.
4. **Recoil Starter (pull rope)** — Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
5. **Fuel Valve Lever** — OPEN to let fuel flow, CLOSE to stop the flow of fuel.
6. **Choke Lever** — Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
7. **Air Cleaner** — Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cannister to gain access to filter element.

NOTICE

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

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.

TOWING SAFETY PRECAUTIONS

CAUTION

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

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

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

- Make sure that the hitch and coupling of the towing vehicle are rated equal to, or greater than the trailer "gross vehicle weight rating" (GVWR).
- ALWAYS inspect the hitch and coupling for wear. NEVER tow the mixer with defective hitches, couplings, chains etc.
- CHECK the tire air pressure on both the towing vehicle and the trailer. Also check the tire tread wear on both vehicles.
- ALWAYS make sure the mixer is equipped with a "Safety Chain".
- ALWAYS attach trailer's safety chain to the frame of towing vehicle.
- ALWAYS make sure that the towing vehicle's directional, backup, and brake lights are working properly.
- Remember in most cases the maximum speed unless otherwise posted for highway towing is 45 MPH, however before towing your mixer, check your local state, and county vehicle towing requirements. Recommended off-road towing is not to exceed 10 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 16 (Tire Wear Troubleshooting).
- When towing of the mixer is required, place the drum in the up position (mouth facing upwards).
- ALWAYS make sure that the fuel valve lever is in the OFF position (gasoline models only).
- Check wheel mounting lug nuts with a torque wrench. Torque wheel lug nuts as described in the maintenance section of this manual.
- Check tightness of U-clamp nuts, torque suspension hardware as referenced in the maintenance section of this manual.
- Avoid sudden stops and starts. This can cause skidding, or jackknifing. Smooth, gradual starts and stops will improve gas milage.
- Avoid sharp turns to prevent rolling.

CAUTION

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

Tow Bar to Vehicle Connection (Coupler Only)

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

Mixer Tow Bar Vehicle Connection (Pintle and Loop)

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

⚠ CAUTION

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

Reference Figure 4 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.

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.

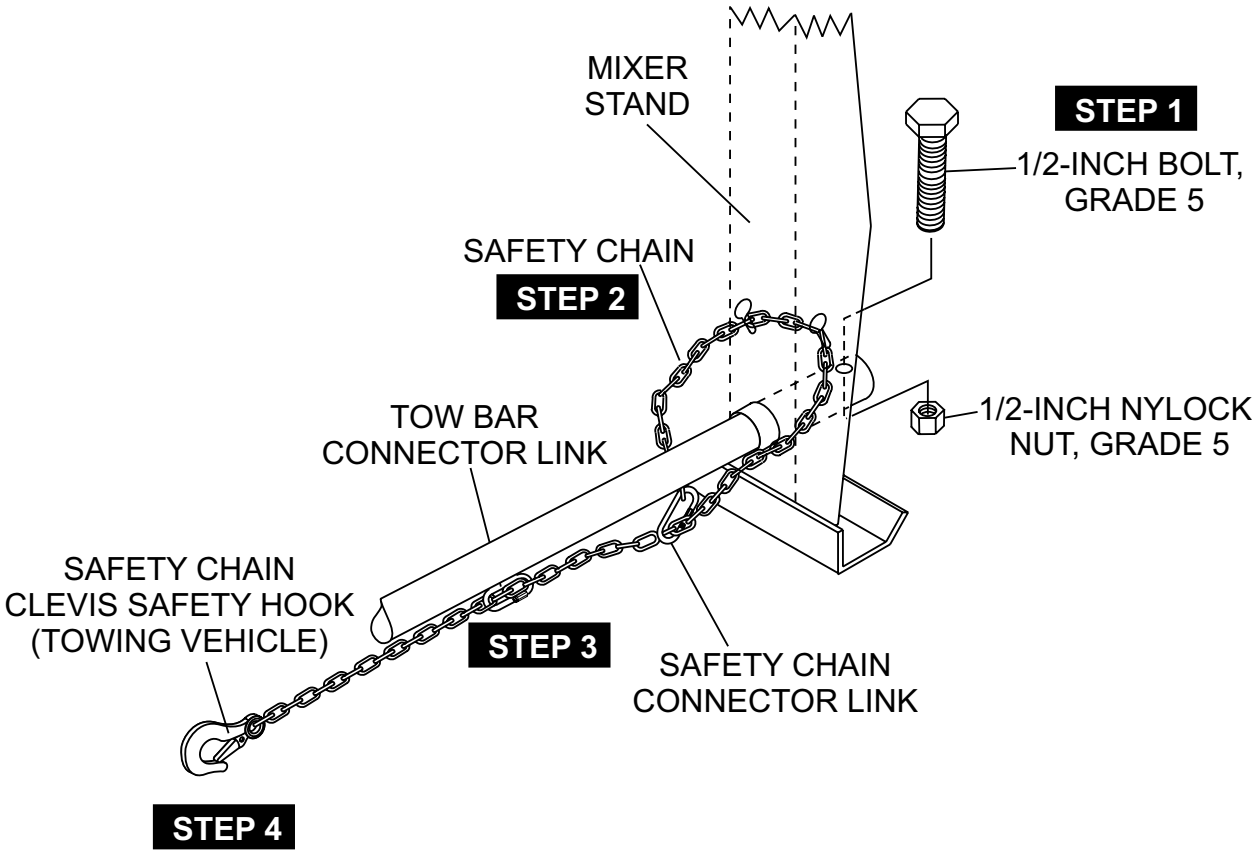


Figure 4. Tow Bar and Safety Chain Installation

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 mixer on secure level ground with the engine stopped.
2. Remove the filler dipstick from the engine oil filler hole (Figure 5) and wipe it clean.

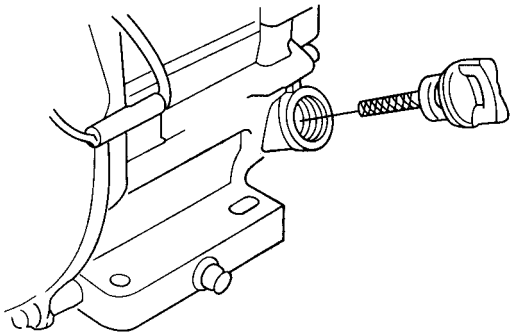


Figure 5. Engine Oil Dipstick (Removal)

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the engine oil level is low (Figure 6), fill to the edge of the oil filler hole with the recommended oil type (Table 6). See Table 2 for the oil capacity of your type engine.

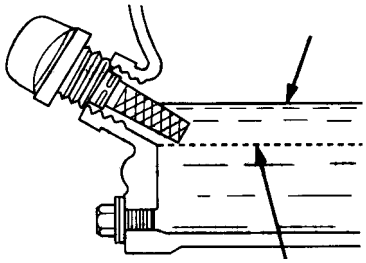


Figure 6. Engine Oil Dipstick (Oil Level)

Table 6. 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

FUEL CHECK

DANGER

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.**

If fuel is low, remove the fuel filler cap and fill with unleaded gasoline.

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

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 blades. If using a steel tub and the blades are worn, replace the entire tub assembly. Remember the blades are welded to tub.

If using a plastic tub, replace the blades using the part numbers referenced in the parts section of this manual.

START/STOP SWITCHES

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

GREASE FITTINGS (ZERK)

Check the zerk fittings (Figure 20) as shown in the maintenance section of this manual. These grease fittings lubricate the handwheel,gear and yoke.

STARTING THE ENGINE

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.

1. Move the fuel shut-off lever (Figure 7) to the ON position.

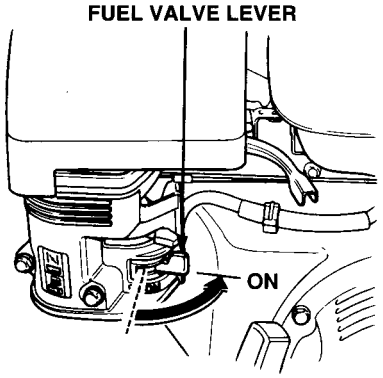


Figure 7. Fuel Shut-Off Lever

2. To start a cold engine, move the choke lever (Figure 8) to the CLOSED position.

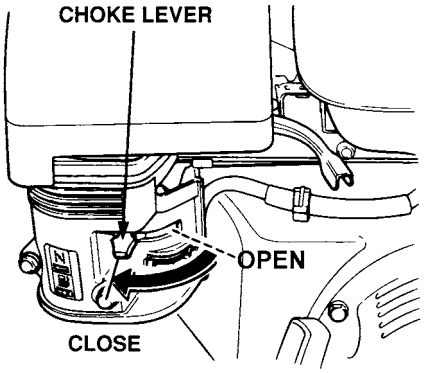


Figure 8. Choke Lever

3. Move the throttle lever (Figure 9) away from the slow position, about 1/3 of the way toward the fast position.

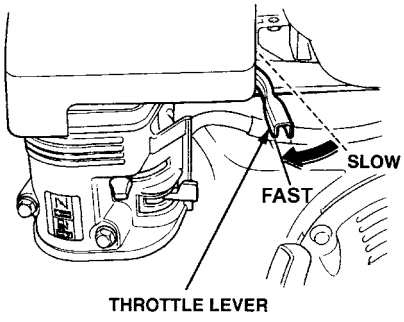


Figure 9. Throttle Lever

4. Turn the engine switch (Figure 10) to the ON position.

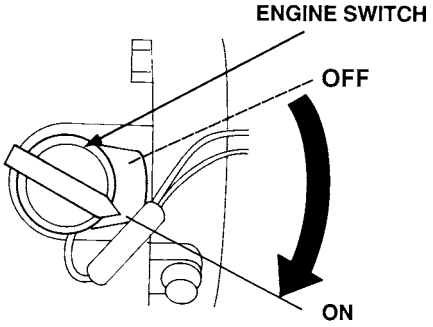


Figure 10. Engine ON/OFF Switch

5. Located at the rear of the mixer frame is the main start/stop button (Figure 11). Pull this button outward to start the engine.

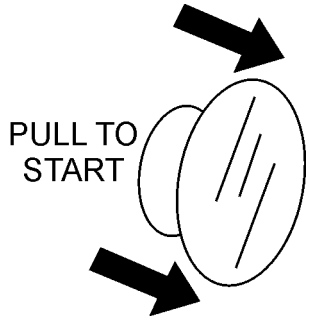


Figure 11. Engine Start/Stop Button

6. Pull the starter grip (Figure 12) lightly until you feel resistance, then pull briskly. The drum should be rotating at this time.

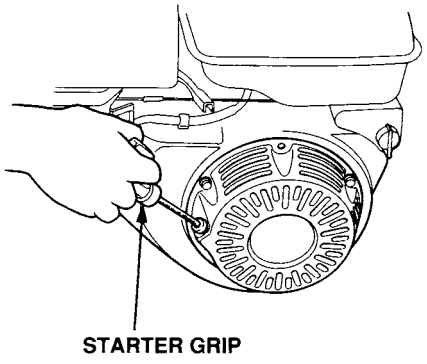


Figure 12. Starter Grip

OPERATION

1. To position the tub, make sure the mixer is placed on firm level ground, then **pull up** on the **dump latch** (Figure 13) and turn the **hand wheel** until the tub is at the desired position. Once the tub is at the desired position, **pull down** on the dump latch to lock the tub in position.

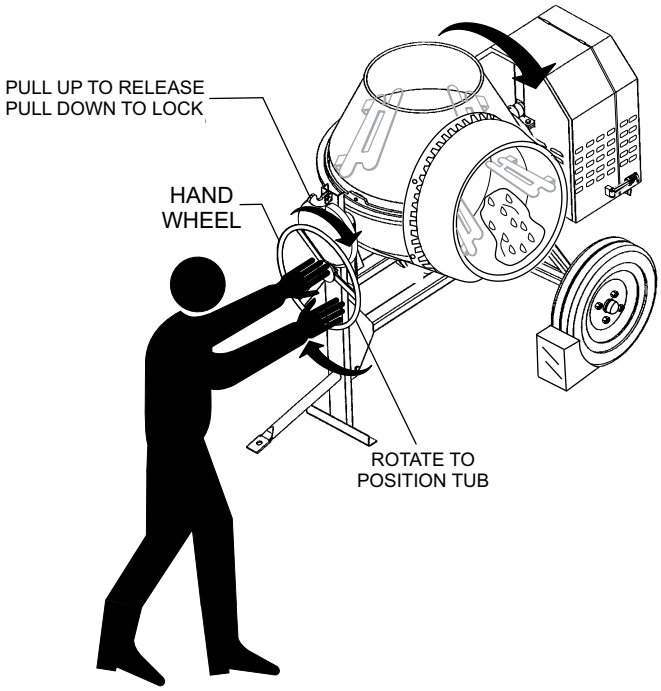


Figure 13. Mixing Drum Position

2. As the drum rotates, use a shovel (Figure 14) to place the cement mix inside the drum, add water as required. Be careful to only place the **tip** of the shovel inside the drum.

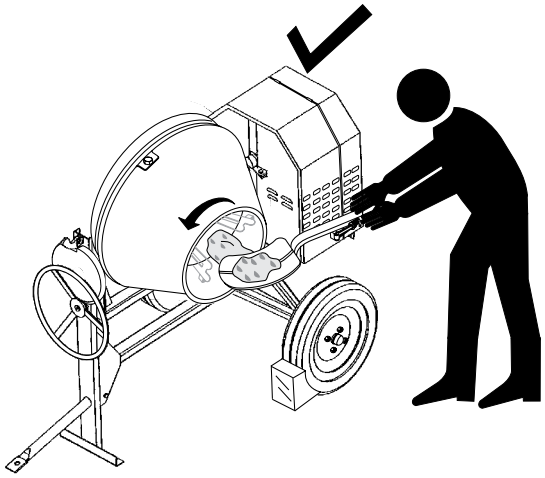


Figure 14. Filling Mixing Drum

⚠ CAUTION

Placing the shovel all the way inside the drum will cause the shovel to strike the blades. This condition will make the shovel rotate, and cound cause injury to personnel. **NEVER** place hands inside the mixing drum while it is rotating (Figure 15).

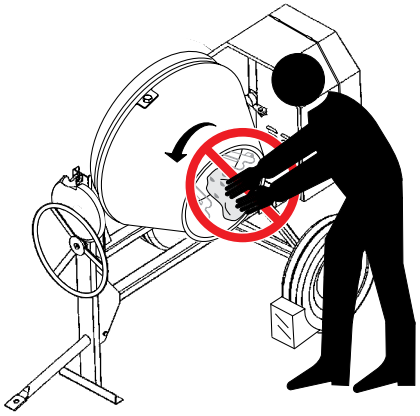


Figure 15. Filling Mixing Drum Incorrectly

STOPPING THE MIXER

1. Push the main start/stop switch (Figure 16) inward to stop the engine.

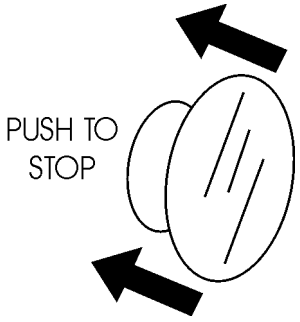


Figure 16. Start/Stop Button (Stop Position)

2. Place fuel shut-off lever in the OFF position.
3. Clean drum of all debris and foreign matter.

Use Table 7 as a general maintenance guideline when servicing your engine. For more detailed engine maintenance information, refer to the engine owner's manual supplied with your engine.

Table 7. Engine Maintenance Schedule

Description (3)	Operation	Before	First Month or 10 Hrs.	Every 3 Months or 25 Hrs.	Every 6 Months or 50 Hrs.	Every Year or 100 Hrs.	Every 2 Years or 200 hrs.
Engine Oil	Check	X					
	Change		X				
Air Cleaner	Check	X					
	Change			X (1)			
All Nuts and Bolts	Re-tighten if Necessary	X					
Spark Plug	Check/Clean				X		
	Replace						X
Cooling Fins	Check				X		
Spark Arrester	Clean					X	
Fuel Tank	Clean					X	
Fuel Filter	Check					X	
Idle Speed	Check/Adjust					X (2)	
Valve Clearance	Check/Adjust						X (2)
Fuel Lines	Check	Every 2 years (replace if necessary) (2)					

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

(2) These items should be serviced by your 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 7 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 17), then adjust the spark gap to 0.024 ~0.028 inch (0.6~0.7 mm). This unit has electronic ignition, which requires no adjustment

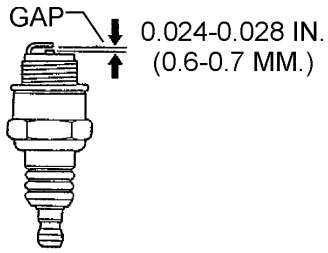


Figure 17. Spark Gap

ENGINE OIL

1. Drain the engine oil when the oil is **warm** as shown in Figure 18.
2. Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
3. Replace engine oil with recommended type oil as listed in Table 6. For engine oil capacity, see Table 2 (engine specifications). **DO NOT** overfill.
4. Install drain bolt with sealing washer and tighten securely.

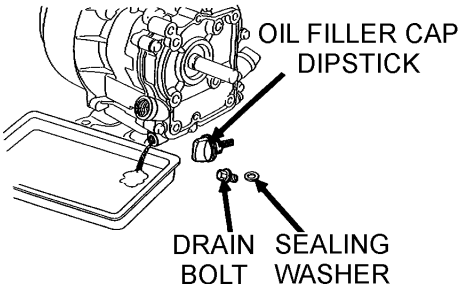


Figure 18. Engine Oil (Draining)

DANGER

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

ENGINE AIR CLEANER

1. Remove the air cleaner cover and foam filter element as shown in Figure 19.
2. Tap the paper filter element (Figure 19) 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.
3. Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.

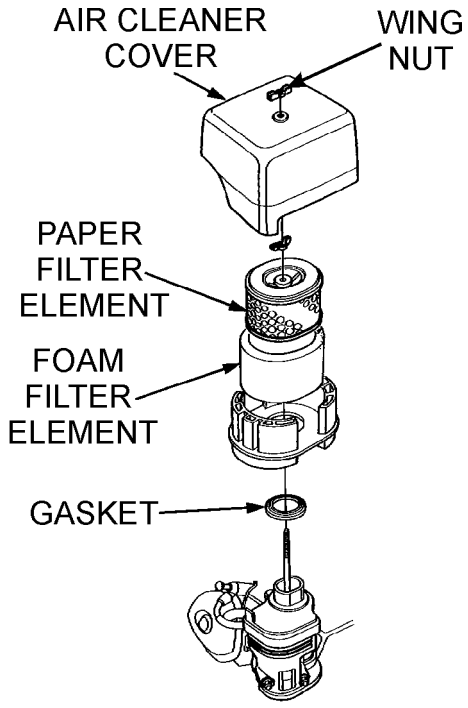


Figure 19. Engine Air Cleaner

BALL SOCKET AND CLAMP FACE

1. 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.
3. When parking or storing your mixer. Keep the coupler off the ground so dirt will not build up in the ball socket.

GREASE FITTINGS (ZERK)

There are three grease fittings (Figure 20) that will require lubrication. Lubricate these fittings **once a week**. Use lithium base grease, grade NO. 1.

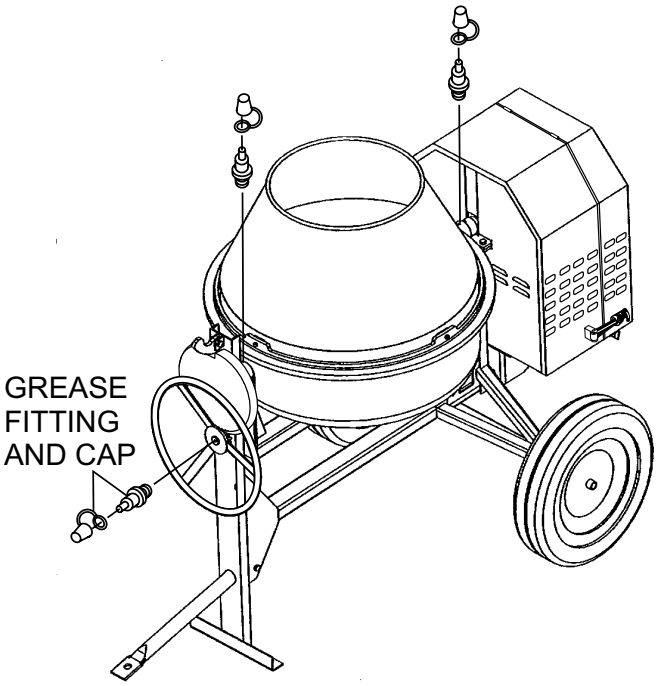


Figure 20. Grease Fittings

WHEEL BEARINGS

1. After every 3 months of operation, remove the hub dust cap and inspect the wheel bearings (Figure 21). Once a year, or when required, disassemble the wheel hubs remove the old grease and repack the bearings forcing grease between rollers, cone and cage with a good grade of high speed wheel bearing grease (**NEVER** use grease heavier than 265 A.S.T.M. penetration ("No. 2.")

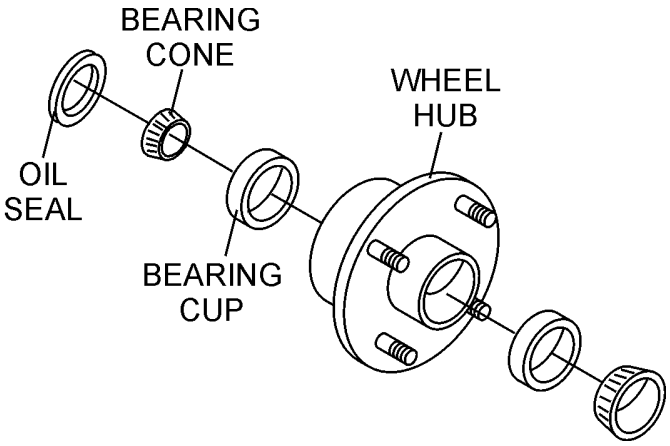


Figure 21. Wheel Hub and Bearings

2. Fill the wheel hub (Figure 21) with grease to the inside diameter of the outer races and also fill the hub grease cap. Reassemble the hub and mount the wheel. Then tighten the adjusting nut, at the same time turn the wheel in both directions, until there is a slight bind to be sure all the bearing surfaces are in contact.

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

MIXER CLEANING

1. For thorough mix and longer drum life, always wash drum out after each use.
2. **NEVER** pour or spray water over the engine.

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

⚠ CAUTION

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

Table 8. Tire Wear Troubleshooting

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

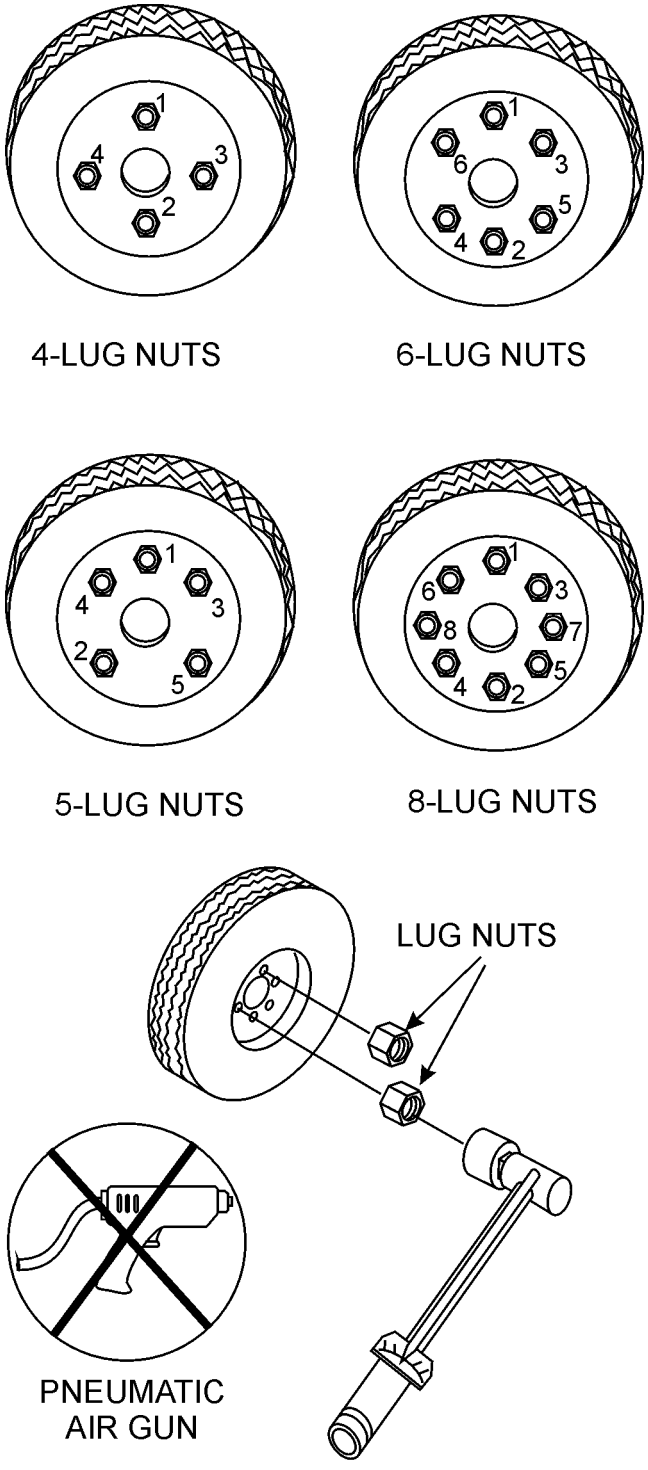


Figure 22. Wheel Lug Nuts Tightening Sequence

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 22. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 9.
3. After first road use, retorque all lug nuts in sequence. Check all wheel lug nuts periodically.

Table 9. 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

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.

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 Troubleshooting (Tables 10 and 11) information shown below and on the next page. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service plant.

Table 10. Engine Troubleshooting

Symptom	Possible Problem	Solution
Difficult to start		
Fuel is available but spark plug will not ignite (power available at high tension cable).	Ignition plug being bridge?	Check ignition system.
	Carbon deposit at ignition?	Clean or replace ignition.
	Short circuit due to defective insulators?	Replace insulators.
	Improper spark gap?	Set spark plug gap to the correct gap.
Fuel is available but spark plug will not ignite (power **NOT** available at high tension cable).	Short circuit at stop switch?	Check stop switch circuit. Replace stop switch if defective.
	Ignition coil defective?	Replace ignition coil.
Fuel is available and spark plug ignites (compression **normal**).	Muffler clogged with carbon deposits?	Clean or replace muffler.
	Fuel in use inadequate (water, dust)?	Flush fuel system and replace with fresh fuel.
	Air cleaner clogged?	Clean or replace air cleaner.
Fuel is available and spark plug ignites (compression **low**).	Defective cylinder head gasket?	Tighten cylinder head bolts or replace head gasket.
	Cylinder worn?	Replace cylinder.
	Spark plug loose?	Tighten spark plug.
Operation not satisfactory		
Not enough power available (compression normal, no miss-firing).	Air cleaner clogged?	
	Air in fuel line?	Bleed (remove air) from fuel line.
	Fuel level in carburetor float chamber improper?	Adjust carburetor float.
	Carbon deposits in cylinder?	Clean or replace cylinder.
Not enough power available (compression normal, miss-firing).	Ignition coil defective?	Flush fuel system and replace with fresh fuel.
	Ignition plug often shorts?	Replace ignition wires, clean ignition.
	Fuel in use inadequate (water, dust)?	Flush fuel system and replace with fresh fuel.
Rotational speed fluctuates.	Governor adjustment improper?	Adjust governor to correct level.
	Governor spring defective?	Clean or replace ignition.
	Fuel flow erratic?	Check fuel line.
	Air taken in through suction line?	Check suction line.
Recoil starter not working properly.	Dust in rotating part?	Clean recoil starter assembly.
	Spring failure?	Replace spiral spring.

Table 11. Mixer Troubleshooting		
Symptom	**Possible Problem**	**Solution**
Drum rotates rough.	Defective ring gear?	Check that the ring gear and bearings are not worn. Replace as necessary.
	Defective pinion gear?	Check that the pinion gear and bearings are not worn. Replace as necessary.
	Worn V-belt?	Replace V-belt.
	Loose pulley?	Tighten or replace pulley.
Drum does not rotate at all.	Fuel?	Check level of fuel in fuel tank. Add fuel if necessary. Make sure fuel is being supplied to engine. Check to ensure that the fuel filter is not clogged.
	Broken V-belt?	Replace V-belt.
	Defective ring or pinion gears?	Check that the gears and bearings are not broken. Replace as necessary.

EXPLANATION OF CODE IN REMARKS COLUMN

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

NOTICE

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

SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN.	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols — All items with same unique symbol

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

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

NOTICE

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

PART NO. Column

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

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

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

QTY. Column

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

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

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

REMARKS Column

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

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

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

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

Indicated by:

"S/N XXXXX AND BELOW"
"S/N XXXX AND ABOVE"
"S/N XXXX TO S/N XXX"

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

Indicated by:

"XXXXX ONLY"
"NOT USED ON XXXX"

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

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

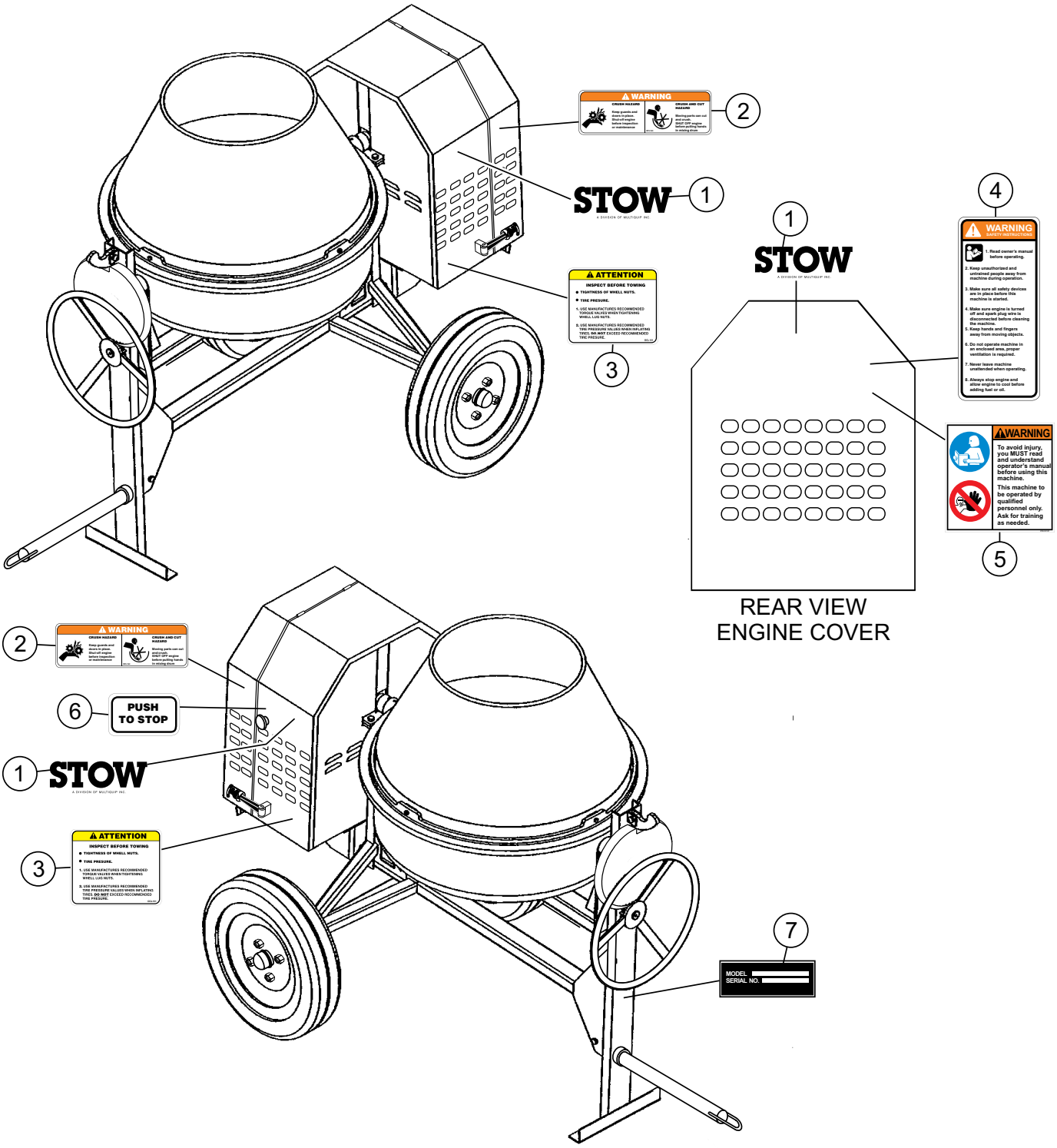
C10SH8-PH8 CONCRETE MIXER WITH HONDA GX240U1QA2 ENGINE

1 to 3 units

Qty.	P/N	Description
2	EM493399	V-BELT
2	29173-001	SWITCH, STOP
4	491010	RUBBER LATCH ASSY.
1	EM903026	BEARING CUP
1	EM903063	BEARING CONE
2	492178	BEARING, SHAFT
2	EM914288	OIL SEAL
1	516592	OIL SEAL
4	EM903113	BEARING CONE
4	EM903012	BEARING CUP
2	3469	DUST CAP
3	9807956846	SPARK PLUG
3	17210ZE2505	AIR FILTER 8.0 HP
1	17620ZH7023	CAP, FUEL
1	28462ZEW211	ROPE, 8.0 HP

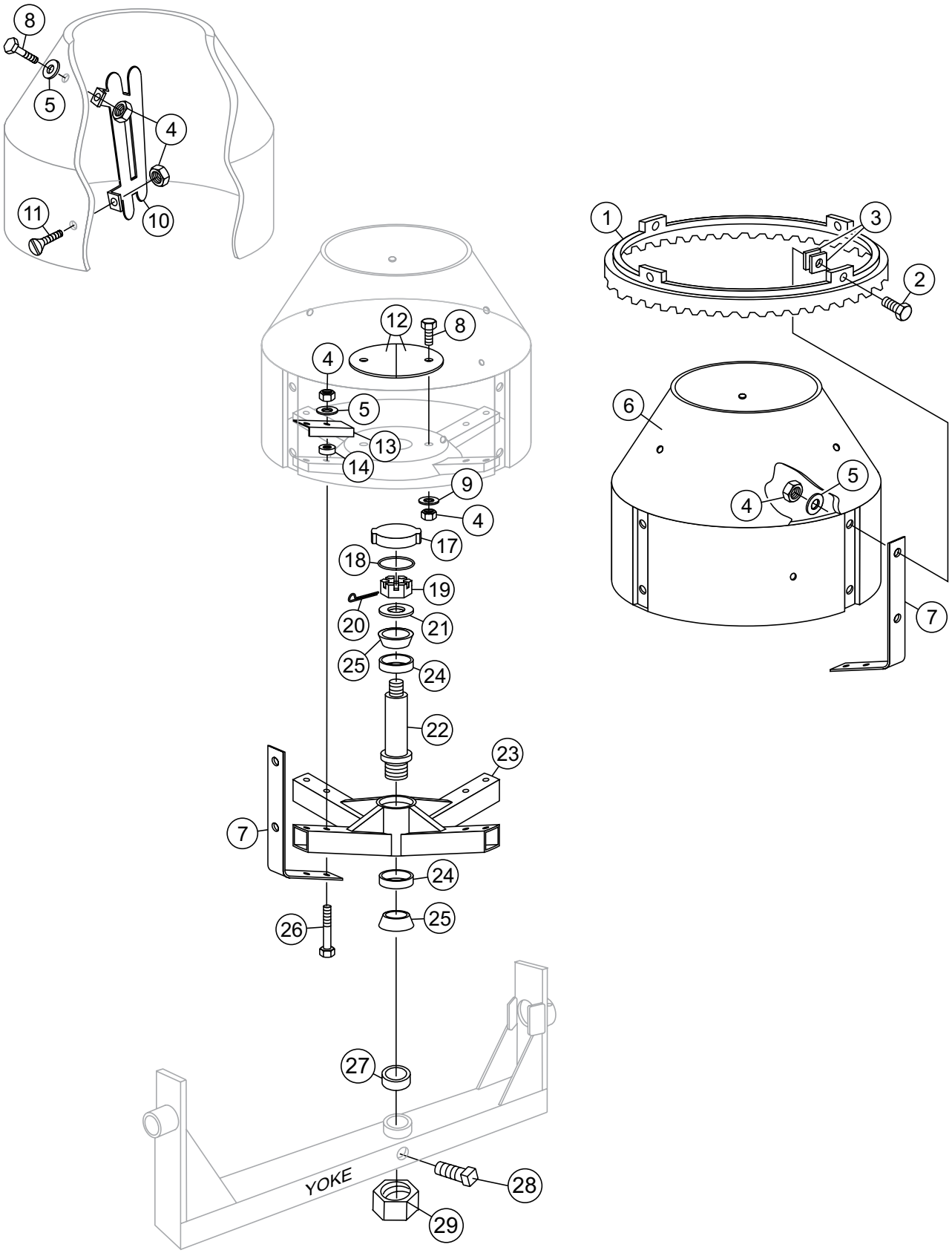
NOTICE

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


WARNING
CRUSH HAZARD
CRUSH AND CUT HAZARD
2
STOW
A DIVISION OF MULTIQUIP INC
1
ATTENTION
INSPECT BEFORE TOWING
TIGHTNESS OF WHEEL NUTS.
TIRE PRESURE.
3
4
WARNING
SAFETY INSTRUCTIONS
1. Read owner's manual before operating.
2. Keep unauthorized and untrained people away from machine during operation.
3. Make sure all safety devices are in place before this machine is started.
4. Make sure engine is turned off and spark plug wire is disconnected before cleaning the machine.
5. Keep hands and fingers away from moving objects.
6. Do not operate machine in an enclosed area, proper ventilation is required.
7. Never leave machine unattended when operating.
8. Always stop engine and allow engine to cool before adding fuel or oil.
WARNING
To avoid injury, you MUST read and understand operator's manual before using this machine.
This machine to be operated by qualified personnel only. Ask for training as needed.
5
REAR VIEW
ENGINE COVER
6
PUSH
TO STOP
7
MODEL
SERIAL NO.

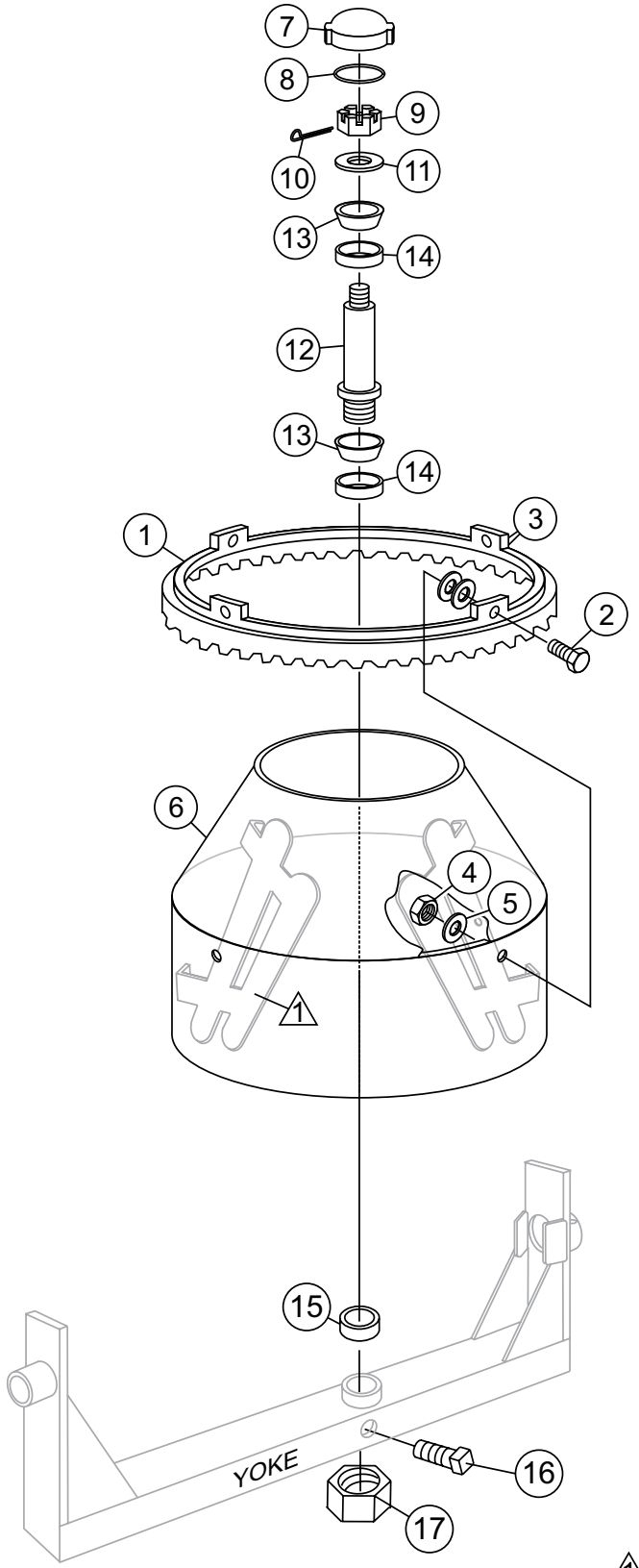
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	510164	DECAL, STOW A DIVISION OF MULTIQUIP	3	
2	DCL160A	DECAL, CRUSH WARNING	2	
3	DCL151	DECAL, WARNING TOWING	2	
4	504713	DECAL, WARNING SAFETY INSTRUCTIONS	1	
5	35137	DECAL, READ MANUAL	1	
6	EM948630	DECAL, PUSH TO STOP	1	
7		NAMEPLATE	1	CONTACT MQ PARTS DEPT.

PLASTIC DRUM ASSY



PLASTIC DRUM ASSY

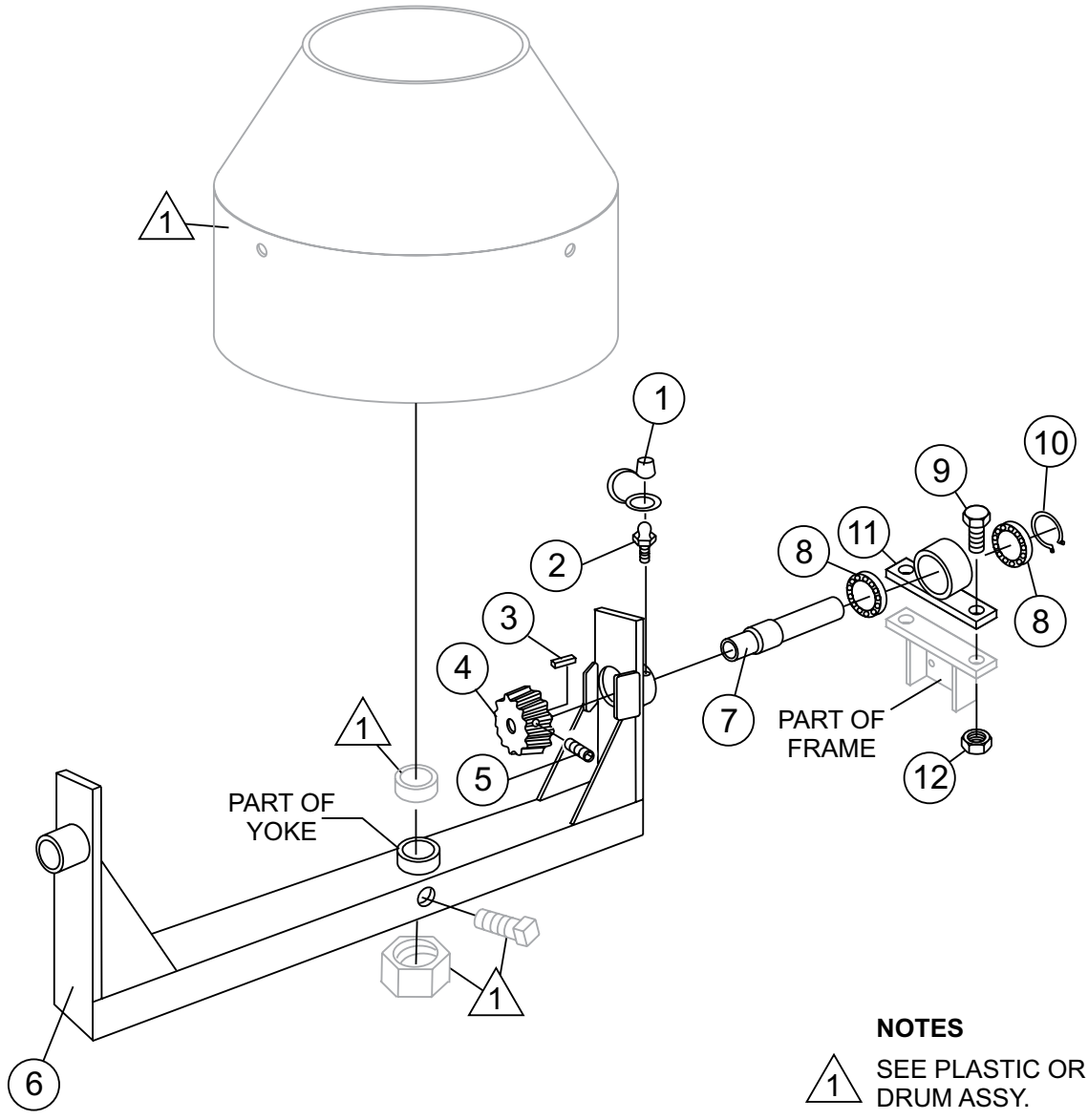
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	516658	GEAR RING	1	
2	412379	SCREW, CAP 3/8"	4	
3	511729	SHIM	8	
4	EM969013	NUT, NYLOC	30	
5	510909	WASHER	19	
6	510916	DRUM, PLASTIC	1	
7	511089	SUPPORT BRACKET	4	
8	EM963057	SCREW, CAP 3/8" X 1-1/2"	5	
9	3019092	WASHER, 3/8" FLAT	2	
10	510884	BLADE, PLASTIC DRUM	3	
11	515453	SCREW	3	
12	515304	PLATE PROTECTION	2	
13	515305	PLATE PROTECTION	4	
14	507538C	BUSHING	8	
17	516424	CAP, PLASTIC DRUM	1	
18	516618	O-RING	1	
19	516678C	NUT, KING PIN	1	
20	EM924006	PIN, COTTER 1/8 X 3/4	1	
21	517134	WASHER	1	
22	516504	PIN, KING	1	
23	516706	SUPPORT SPIDER	1	
24	EM903026	BEARING CUP	2	
25	EM903063	BEARING CONE	2	
26	503116	BOLT 3/8" NC X 3-3/8"	1	
27	516592	OIL SEAL	1	
28	492491	SCREW, SET	1	
29	516614	NUT	1	



NOTES

1 MIXING BLADES ARE PART OF DRUM ASSEMBLY. TO RE-ORDER NEW BLADES A COMPLETE MIXING DRUM MUST BE PURCHASED.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	516658	GEAR RING	1	
2	EM963057	SCREW, CAP 3/8" X 1-1/2"	4	
3	511730	SHIM	8	
4	492542	NUT	4	
5	0166 A	WASHER, LOCK 3/8"	4	
6	516575	DRUM, STEEL	1	
7	516511	CAP, DRUM	1	
8	516618	O-RING	1	
9	516678	NUT, KING PIN	1	
10	EM924006	PIN, COTTER 1/8" X 3/4"	1	
11	504447	WASHER	1	
12	516495	PIN, KING	1	
13	EM903063	BEARING CONE	2	
14	EM903026	BEARING CUP	2	
15	516592	OIL SEAL	1	
16	492491	SCREW, SET	1	
17	516614	NUT	1	

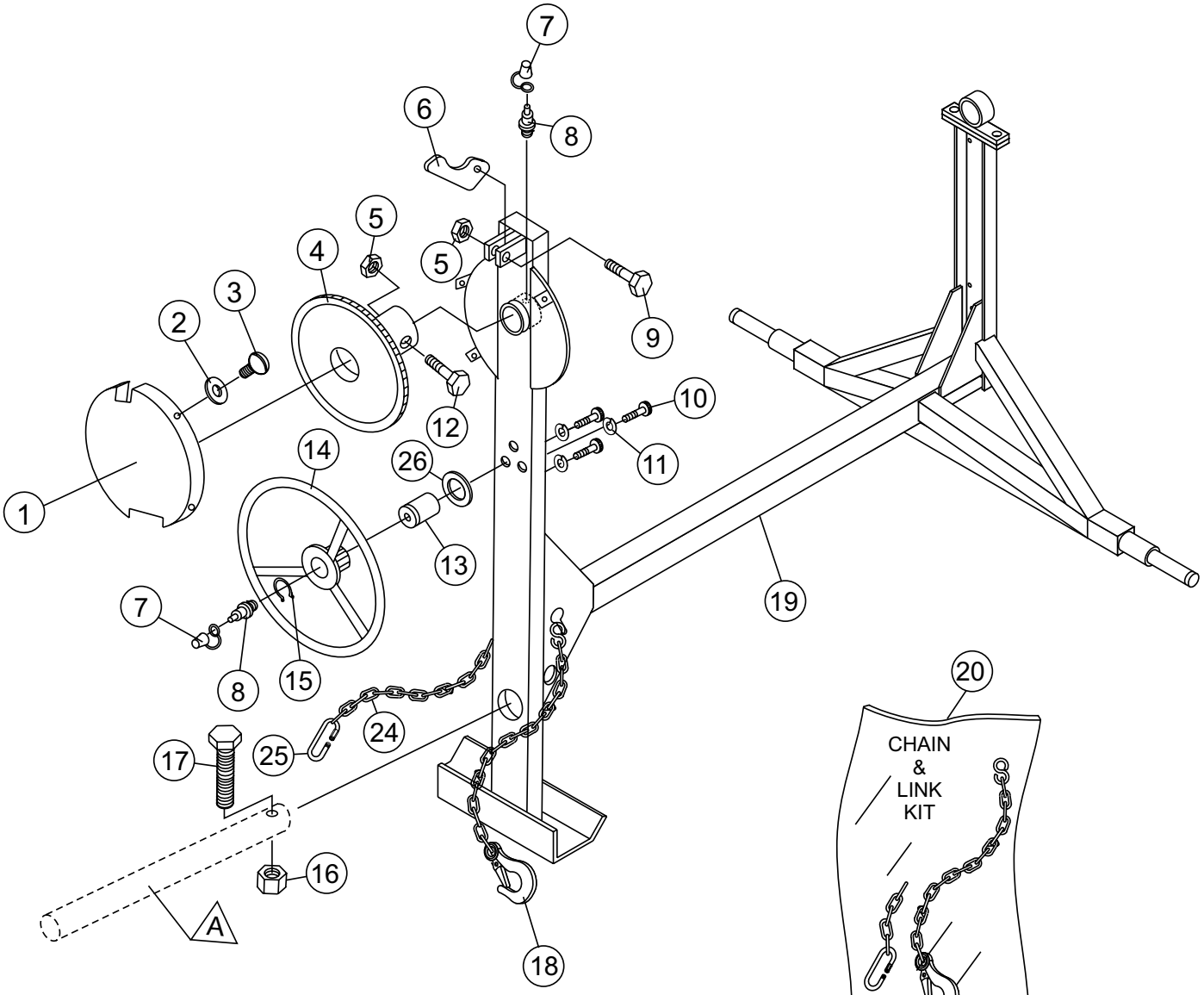


NOTES

1 SEE PLASTIC OR STEEL DRUM ASSY.

YOKE ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	491008	FITTING PROTECTOR	1	
2	EM916001	GREASE FITTING	1	
3	500214	KEY SQUARE 1/4" X 1/4" X 1-1/2"	1	
4	503915	PINION GEAR	1	
5	492468	SCREW, SET 5/16"	1	
6	516654	SUPPORT YOKE	1	
7	513991	PINION, JACKSHAFT	1	
8	492178	BEARING, SHAFT	2	
9	EM963692	SCREW, CAP HHCS, 1/2-13 X 1	2	
10	490970	SNAP RING	1	
11	514036	HOUSING, JACKSHAFT	1	
12	492584	NUT, LOCK 1/2"	2	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26
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15
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CHAIN
&
LINK
KIT
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A
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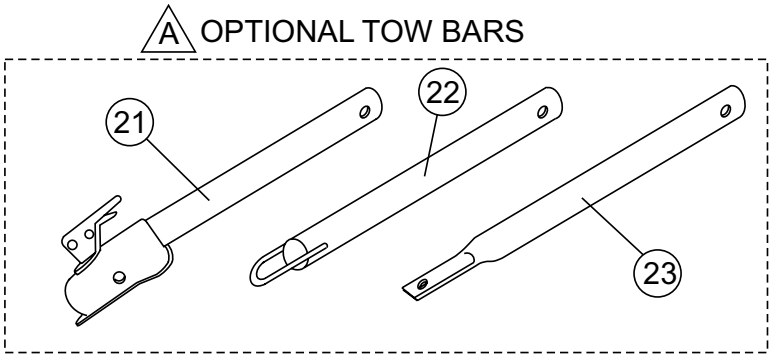
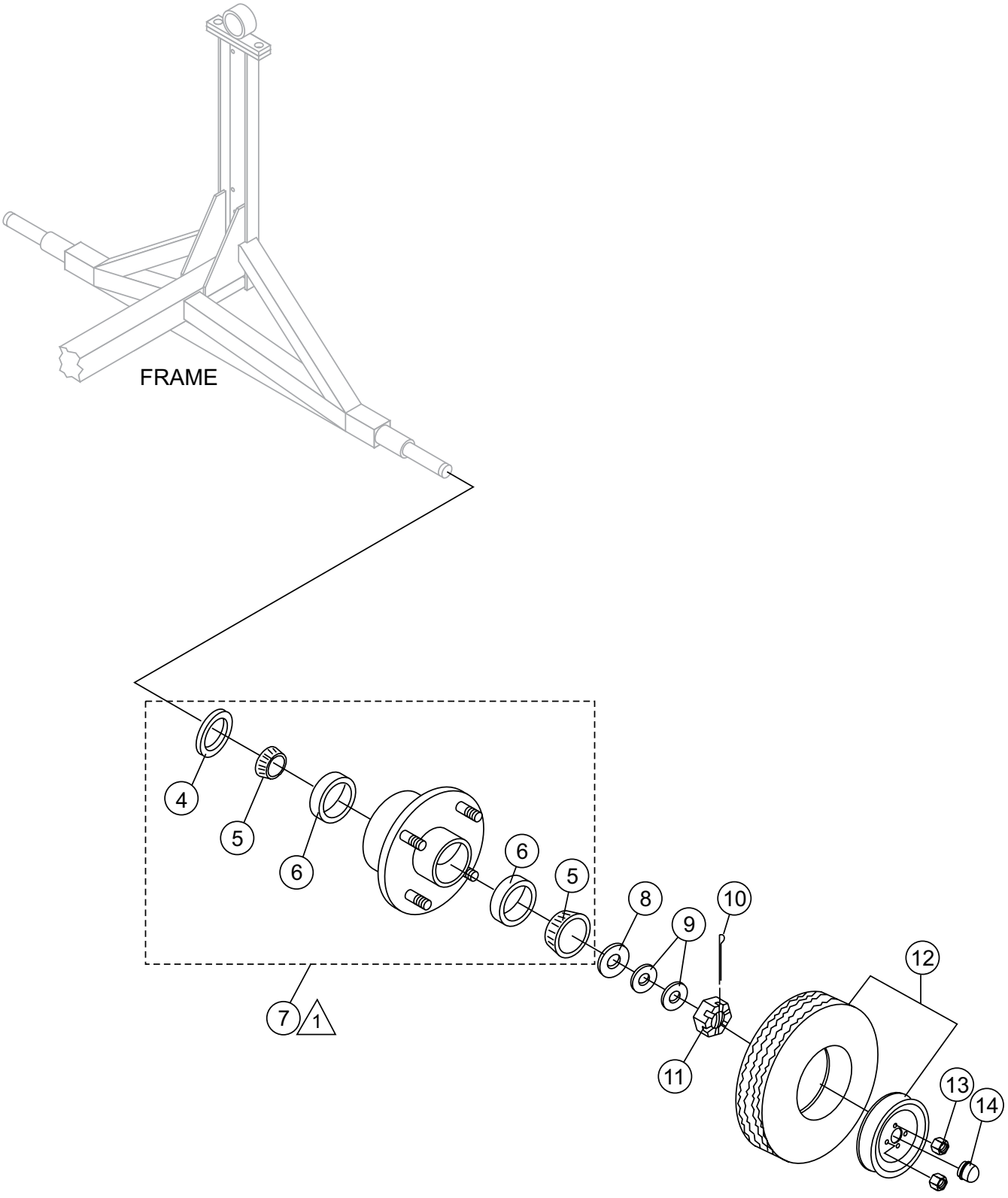

A OPTIONAL TOW BARS
21
22
23

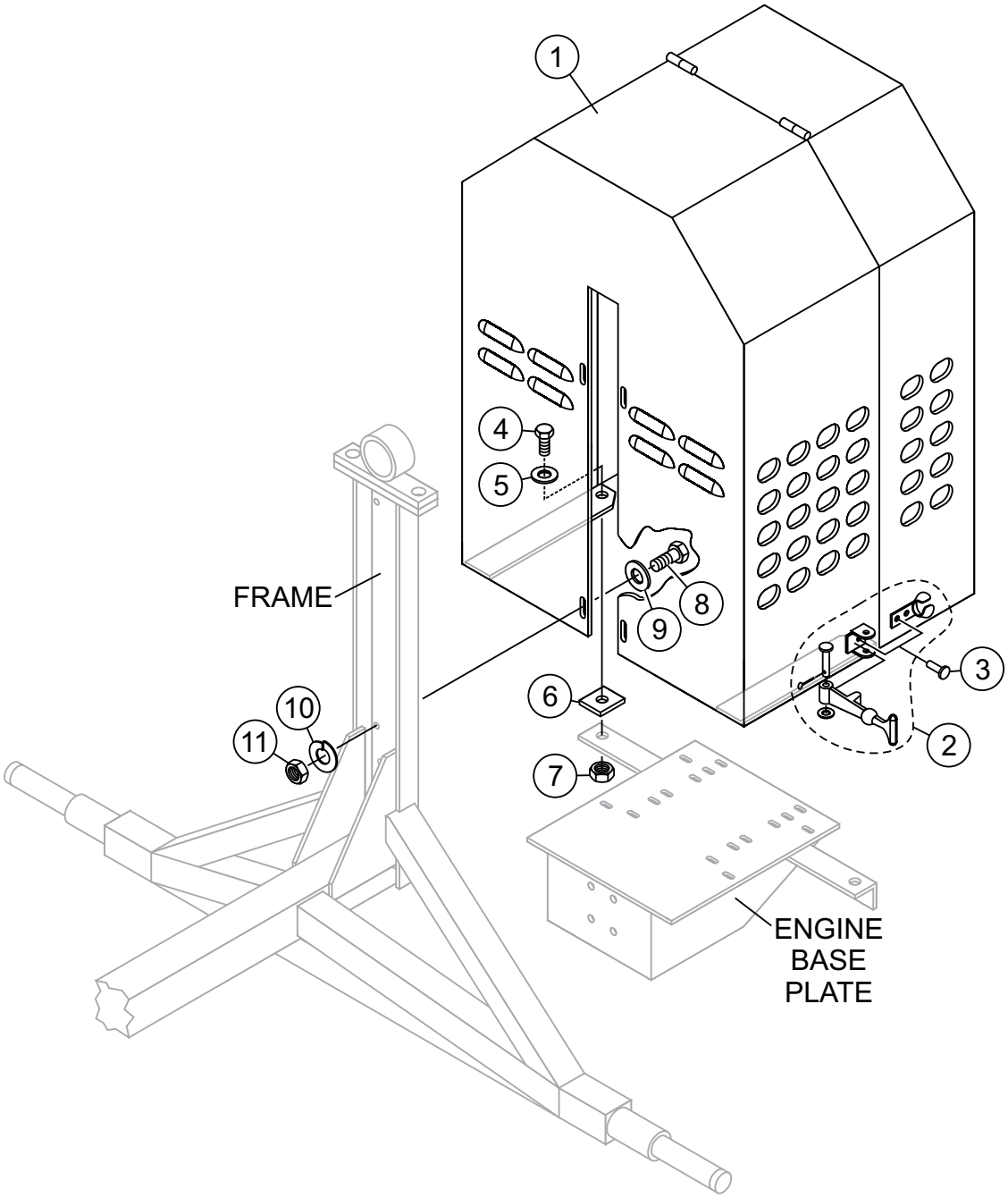
NO.	PART NO.	PART NAME	QTY.	REMARKS
1	514245	GUARD, GEAR WHEEL	1	
2	3103160	WASHER	4	
3	492278	BOLT HEAD ROUND 1/4 X 3/8	4	
4	516668	GEAR, DUMP	1	
5	492584	NUT, LOCK 1/2"	3	
6	490895	DUMP LATCH	1	
7	491008	FITTING PROTECTOR	2	
8	EM916001	GREASE FITTING	2	
9	492329	BOLT, 1/2" NC X 1-3/4" G2	1	
10	492259	BOLT, 5/16" NC X 3/4"	3	
11	EM923343	WASHER, LOCK 5/16"	3	
12	EM963102	BOLT, HHCS 1/2" NC X 1-1/4"	2	
13	516534	HANDWHEEL SHAFT	1	
14	517371	HANDWHEEL	1	
15	490961	RETAINING RING	1	
16	10176	NUT, NYLOC 1/2-13	1	
17	EM124	BOLT, HHCS 1/2 X 4 G5	1	
18%	516581	CLEVIS SAFETY HOOK	1	
19	518266	FRAME	1	
20	13363KIT	CHAIN AND LINK KIT	1	INCLUDES ITEMS W/%
21	HBC-1	BALL HITCH	1	
22	HLC-1	LOOP HITCH	1	
23	HPC-1	PIN HITCH	1	
24%		SAFETY CHAIN	2	
25%	01004	CONNECTOR LINK	1	
26	504447	WASHER	1	



NOTES:

1. COMPLETE HUB ASSEMBLY INCLUDES ITEMS WITHIN DASHED LINES AND ITEMS 13 AND 14.

NO.	PART NO.	PART NAME	QTY.	REMARKS
4%	EM914288	OIL SEAL	2	
5%	EM903113	BEARING CONE	4	
6%	EM903012	BEARING CUP	4	
7	EM941306	HUB ASSY, 4-BOLT	2	INCLUDES ITEMS W/%
8%	EM511159	WASHER, FLAT, .087" THICKNESS	2	
9%	EM501299	WASHER, FLAT, .135" THICKNESS	A/R	
10	491688	COTTER PIN, 1/8" X 1-1/2"	2	
11	8164	NUT, SLOTTED HEX JAM 1"-20	2	
12	516476	TIRE AND RIM	2	
13	8115	LUG NUT	8	
14	3469	DUST CAP	2	


1
4
5
FRAME
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9
3
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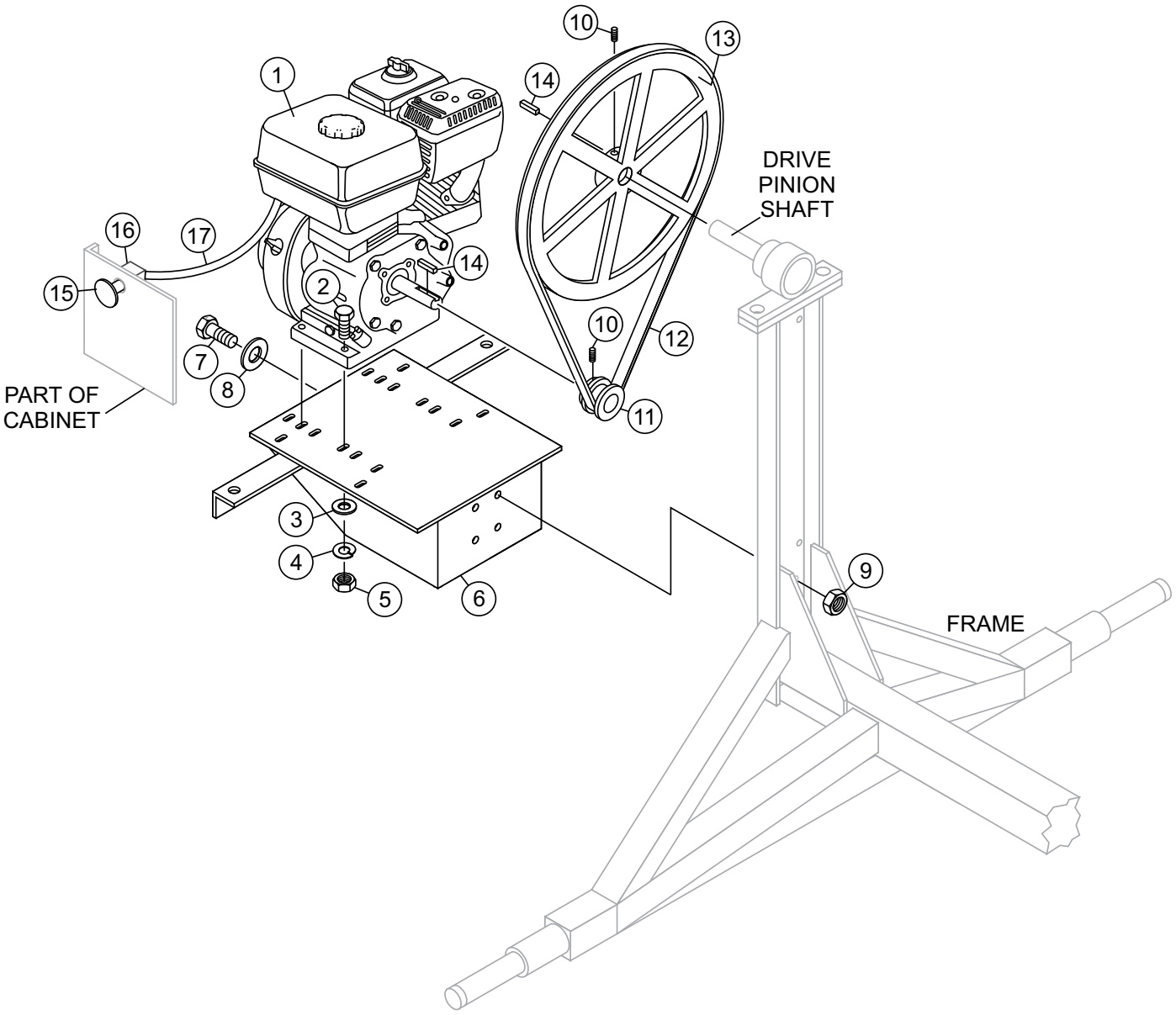
10
11
2
7
ENGINE
BASE
PLATE

CABINET ASSY.

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	518428	CABINET	1	
2	491010	RUBBER LATCH ASSY.	2	
3	1307	SCREW, PHP 8-32 X 1/2 PLATED	6	
4	492312	BOLT, 3/8" NC X 1-1/4" G2	2	
5	3019092	WASHER, FLAT 3/8"	2	
6	501028	SPACER	2	
7	EM969013	NUT, NYLOC 3/8"	2	
8	492357	BOLT, 1/4" NC X 1" G5	4	
9	EM923057	WASHER, 1/4"	4	
10	2101402	WASHER, LOCK 1/4"	4	
11	2101428	NUT, 1/4-20	4	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15
16
17
DRIVE
PINION
SHAFT
PART OF
CABINET
FRAME

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	GX240U1QA2	ENGINE, HONDA 8.0 HP	1	
2	492378	BOLT, 3/8" NC X 1-3/4" G5	4	
3	3019092	WASHER, FLAT 3/8"	4	
4	0166 A	WASHER, LOCK 3/8"	4	
5	1456	NUT, HEX 3/8 - 16	4	
6	516648	ENGINE BASE PLATE	1	
7	EM963692	BOLT, HHCS 1/2 - 13 X 1-1/2	4	
8	EM621	WASHER, 1/2"	4	
9	492584	NUT, LOCK 1/2"	4	
10	492468	SCREW, SET 5/16"	2	
11	504075	PULLEY, SMALL	1	
12	EM493399	V-BELT	1	
13	514060	PULLEY, LARGE	1	
14	500214	KEY, SQUARE 1/4 X 1/4 X 1-1/2	2	
15	29174-001	BUTTON, STOP	1	
16	29173-001	SWITCH, STOP	1	
17	510573C	HARNESS, STOP SWITCH	1	

STOW®
A DIVISION OF MULTIQUIP INC.

Terms And Conditions Of Sale
STOW Construction Equipment

PAYMENT TERMS

Terms of payment for unit sales are 2% 15 days net 30 days from date of invoice unless otherwise specifically stated on our invoice. Parts invoices have terms of net 10 days. **Minimum parts billing is $15.00 net.**

Applicable discounts will be computed on merchandise value only. Late charges will be assessed at prevailing rates. Cash discounts cannot be taken on current billings if any previously billed amounts are past due.

FREIGHT POLICY

Freight policy is established to offer customers every advantage possible. Due to bulk freight ratings on some equipment and other shipping considerations, freight policies differ by equipment type. Actual back freight may be charged for shipments originating from other than specified FOB warehouses. **See Freight Policy for details.**

All STOW domestic sales are FOB nearest available designated MQ/STOW warehouse. Export orders are ex-works factory located in Carson, CA or Boise, ID.

Additions to orders already shipped cannot be accepted for freight minimums.

Should STOW elect to make partial shipments of an order originally complying with the "freight allowed" requirements, transportation charges will be absorbed by STOW on any subsequent shipment applying to that order.

All other orders will be shipped collect or prepaid with charges added to the invoice. STOW's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

Parts: FOB Carson, California or Boise, Idaho. **See Freight Policy for details and additional discounts.**

DROP SHIPMENTS

STOW reserves the right to refuse Drop Shipments outside the normal service area of the purchasing dealer.

FIELD WAREHOUSES

Field Warehouses are currently located in California, Georgia, Idaho, Iowa, and New Jersey

SPECIAL EXPEDITING SERVICE

The higher of a $35.00 surcharge or actual costs will be added to the invoice for special handling, including bus shipments, or in cases where STOW personnel must personally deliver the equipment or parts to the carrier.

RETURNED GOODS POLICY

Return shipments may be accepted and credit allowed, subject to the following provisions.

1. A Returned Material Authorization (RMA) must be approved by STOW prior to shipment. Approvals for returned goods must be with just cause and are at the sole discretion of STOW. A copy of the Authorization must accompany the shipment to the designated Warehouse.
2. Parts being returned must be listed as currently supplied on the current parts list.
3. Parts must be in new and resalable condition in the original package, with part numbers clearly marked.
4. Units and accessories must be current models in the latest price list and in new and resalable condition.
5. Special order items are not returnable for credit.
6. Credit on returned parts and units will be issued at actual dealer net price at time of purchase less 15% restocking charge.
7. All returned shipments are to be made to the STOW designated receiving point, freight prepaid at the sender's expense.

The sender will be notified of any material received that does not meet the above provisions. Such material will be held for 30 days from notification pending instructions. If a reply is not received within 30 days, the material will be returned to the sender at his expense with no credit issued.

PRICING, REBATES AND SPECIFICATIONS

Every effort will be made to provide adequate notice of changes; however, prices and equipment specifications are subject to change without notice.

Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price.

Rebates for price reductions and added charges for price increases will not be made for stock in dealer inventory at the time of a price change.

STOW reserves the right to quote and sell direct to Government agencies and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

LIMITATION OF SELLER'S LIABILITY

STOW shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed and in no event shall STOW be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

There are no warranties, express or implied, made by STOW. hereunder on Products manufactured or distributed by it except the warranty against defects in material and workmanship on new Products to the original purchaser, as set forth in the STOW New Product Limited Warranty.

Effective: July 15, 2003

STOW®
A DIVISION OF MULTIQUIP INC.
Atlanta • Boise • Newark • Quebec, Canada
Manchester, UK • Rio de Janeiro, BR • Puebla, MX

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310-661-4242 • 877-BUY-STOW
FAX: 310-604-9237
E-MAIL: stow@stowmfg.com
www.stowmfg.com

OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave.
Carson, CA 90746
Contact: mq@multiquip.com

Tel. (800) 421-1244
Fax (800) 537-3927

MQ Parts Department

800-427-1244
310-537-3700

Fax: 800-672-7877
Fax: 310-637-3284

Service Department

800-421-1244
310-537-3700

Fax: 310-537-4259

Warranty Department

800-421-1244
310-537-3700

Fax: 310-943-2249

Technical Assistance

800-478-1244

Fax: 310-943-2238

MEXICO

MQ Cipsa

Carr. Fed. Mexico-Puebla KM 126.5
Momoxpan, Cholula, Puebla 72760 Mexico
Contact: pmastretta@cipsa.com.mx

Tel: (52) 222-225-9900
Fax: (52) 222-285-0420

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Tel: 0161 339 2223
Fax: 0161 339 3226

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Multiquip

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Contact: jmartin@multiquip.com

Tel: (450) 625-2244
Tel: (877) 963-4411
Fax: (450) 625-8664

This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

The information and specifications included in this publication were in effect at the time of approval for printing. Illustrations, descriptions, references and technical data contained in this manual are for guidance only and may not be considered as binding. Multiquip Inc. reserves the right to discontinue or change specifications, design or the information published in this publication at any time without notice and without incurring any obligations.

Your Local Dealer is:

MULTIQUIP®