

OPERATION AND PARTS MANUAL



***WHITEMAN* SERIES**

WM120PM Series

POLY-MECHANICAL

WM120SM Series

STEEL-MECHANICAL

PLASTER/MORTAR MIXERS

Revision #7 (09/15/11)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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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.

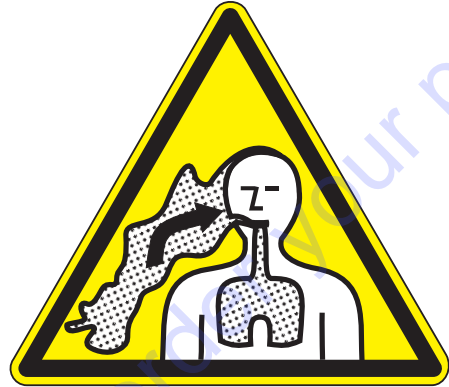
WARNING



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.

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NOTE

*Specification and part number
are subject to change without
notice.*

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The safety instruction decals shown must be on all Whiteman Mixers

CAUTION!
SHUT OFF ENGINE BEFORE
PUTTING HANDS IN MIXING DRUM

P/N EM948423

WHITEMAN SAFETY INSTRUCTIONS

1. Read owners manuals 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.

WHITEMAN CONCRETE PRODUCTS — A MULTQUIP COMPANY

P/N 924801

NAMEPLATE

RULES FOR SAFE OPERATION

CAUTION:

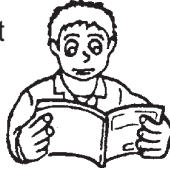


Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the WM-120PM or WM-120SM mixers:

GENERAL SAFETY

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



- This equipment should not be operated by persons under 18 years of age.

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.



- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.



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



- **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.

- Manufacture does not assume responsibility for any accident due to equipment modifications.

- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.

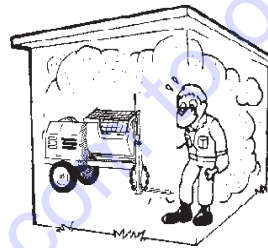
- Always check the machine for loosened threads or bolts before starting.

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or mixer.



- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot* components can cause serious burns.

- The engine section of this mixer requires an adequate free flow of cooling air. Never operate the mixer in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the mixer or engine and may cause injury to people. Remember the mixer's engine gives off **DEADLY** carbon monoxide gas.



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



- Always use extreme caution when working with **flammable** liquids. When refueling, **stop** the engine and allow it to cool. **DO NOT** smoke 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*.

RULES FOR SAFE OPERATION

CAUTION:



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

The following safety guidelines should always be used when operating the WM120S/WM120P Mixer:

GENERAL SAFETY

- Stop the engine when leaving the mixer unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- Always stop the engine before servicing, adding fuel and oil.
- **NEVER** Run engine without air filter. Severe engine may occur.
- Always service air cleaner frequently to prevent carburetor malfunction.
- Always be sure the operator is familiar with proper safety precautions and operations techniques before using mixer.
- Always store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **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** Run engine without air cleaner. Severe engine damage may occur.
- Always read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- Always be sure the operator is familiar with proper safety precautions and operations techniques before using pump.
- 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.

CAUTION:



■ **DO NOT** operate this equipment unless all guards and safety devices are attached and in place.

- Caution must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- When towing, an adequate safety chain must be fastened to the frame, refer to page 14.
- Keep all inexperienced and unauthorized people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.
- Check all fasteners periodically for tightness. Also check towing tongue bolt, lock nut and wheel lug nuts for wear.
- Stop the engine and disconnect the spark plug before allowing anybody's hands in the mixing drum.
- Never pour or spray water over the engine or electric motor.
- Always stand clear of dump handle when mixer is in operation. Any binding of material between the mixer blades and drum will cause drum and handle to quickly move in the discharge position.
- Depending on type of mixer, test the **ON/OFF** switch for either the gasoline engine or electric motor before operating. The purpose of these switches is to shut down the engine or motor of the mixer.

Emergencies

- Always know the location of the nearest **fire extinguisher** and **first aid kit**. Know the location of the nearest telephone. Also know the phone numbers of the nearest **ambulance**, **doctor** and **fire department**. This information will be invaluable in the case of an emergency.

Maintenance Safety

- **NEVER** lubricate components or attempt service on a running machine.
- Always allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine 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**. Know the location of the nearest telephone. Also know the phone numbers of the nearest **ambulance**, **doctor** and **fire department**. This information will be invaluable in the case of an emergency.

Table 1. WM120P/S Series Mixers

SPECIFICATION PARAMETER	WM120PM	WM120SM
Capacity - cu. ft (liters)	12 (340)	12 (340)
Bag capacity - bags	3.5 to 4	3.5 to 4
Weight - lbs (kg.)	1,090 (494)	1,090 (494)
Length w/Tow Bar x W x H - in. (cm.)	82 x 51 x 60 (208 x 130 x 152)	82 x 51 x 60 (208 x 130 x 152)
Height W/Dump Handle - in. (cm.)	75 (191)	75 (191)
Discharge Height - in. (cm.)	75 (191)	75 (191)
Drive	Mechanical	Mechanical
Dump Action	Manual	Manual
Power Sources	5 HP Single-Phase 230/460 Electric 5 HP Three-Phase 230/460 Electric 11 HP Honda 9.2 HP Wisc. AENLD-3	5 HP Single-Phase 230/460 Electric 5 HP Three-Phase 230/460 Electric 11 HP Honda 9.2 HP Wisc. AENLD-3

NOTE

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

GENERAL

The Whiteman WM-120PM and WM120SM Series plaster and mortar mixers are shipped completely assembled and have been factory tested.

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

These mixers can be powered by either gasoline or electric motors. The power from the engine is transmitted via the clutch/reduction assembly directly to the paddle shaft. Therefore providing high mixer torque and eliminating V-belts.

BEFORE STARTING

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

Check the items listed below:

OIL LEVELS

Be sure to check the oil levels in the engine and engine reduction unit before starting the unit.

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 the torque chart below as a general guideline and keep all hardware tight:

HARDWARE DIA

TORQUE (LB./FT.)

5/16" - 18	24
3/8" - 24	37
1/2" - 13	39
1/2" - 13 (Grade 8)	90

GASOLINE ENGINE CARE

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

GASOLINE MIXER OFF/ON SWITCH

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

ELECTRIC MOTOR MIXER OFF/ON SWITCH

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

ENGINE THROTTLE AND CHOKE CONTROLS

Please refer to the engine owners manual for specific instructions.

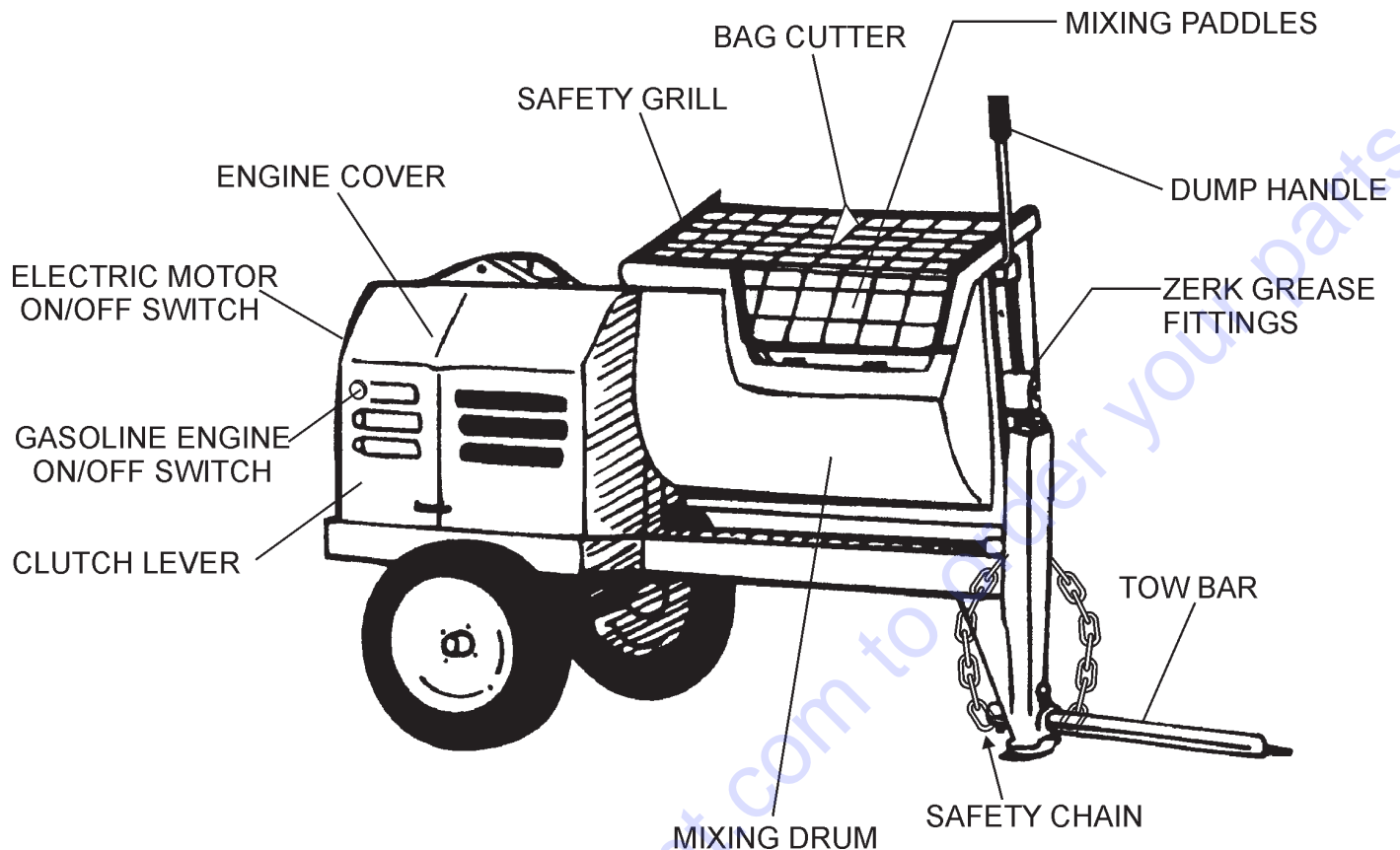


Figure 1. Mixer

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.

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.

Mixing Paddles — Used in the mixing of material. This unit uses four different types of paddles to provide a fast uniform mix.

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.

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.

Mixing Drum — Made of either *polyethylene* or *steel*. Mixing materials such as concrete, mortar, plaster are to be placed into this drum for mixing. Always clean the drum after each use.

Tow Bar — When towing is required, connect tow bar to a vehicle Reference page 14.

Engine Cover — Lift this cover to gain access to the engine compartment.

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.

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.

Clutch Lever — Push the clutch lever forward, toward the tow tongue end of the mixer to engage clutch. Once clutch is engaged paddle shaft will rotate. To disengage clutch pull the clutch backwards towards the engine.

ELECTRIC MOTOR

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

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

CAUTION:



■ **DO NOT** spray water at any time on the *electric motor*.

■ **DO NOT** operate electric motor in a explosive environment.

The electric motor for this mixer is available in either a 5 HP single-phase or 5 HP 3-phase configuration. The input voltage requirement for these motors is either 230 VAC or 440 VAC only.

ELECTRIC MOTOR CONNECTION

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

NOTE

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 2. Electric Motor Wiring Information

Motor Horsepower Rating	230 Volt - Single Phase	
	NEMA Plug Connector	Mating NEMA Receptacle Connector
3 HP	L6-20P P/N 940539	L6-20R P/N 940540
5 HP	L6-30P P/N 940547	L6-30R P/N 940548

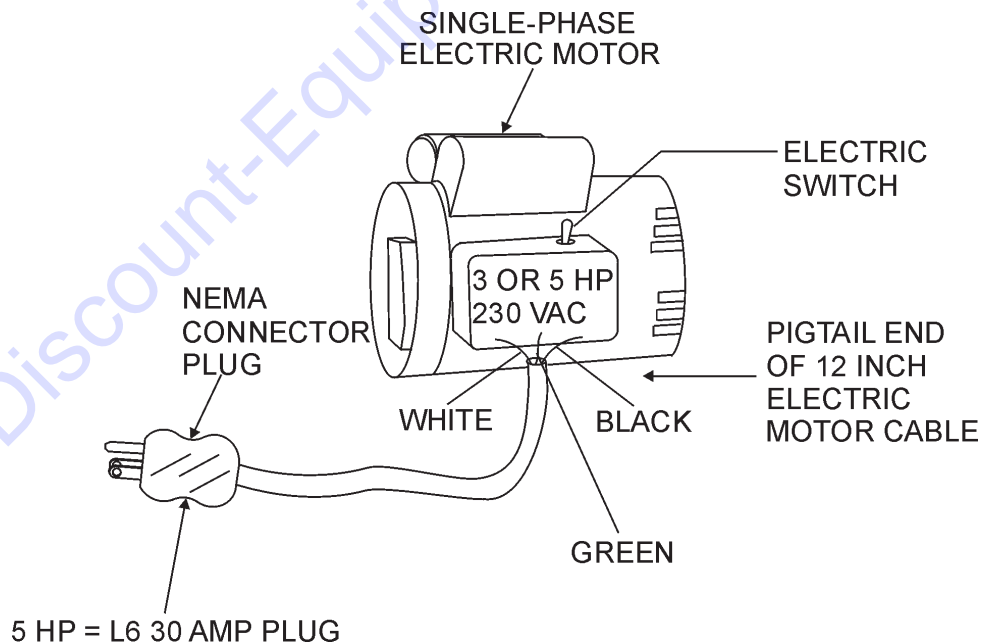


Figure 2. Single Phase Electric Motor with 12 inch Pigtail Cable

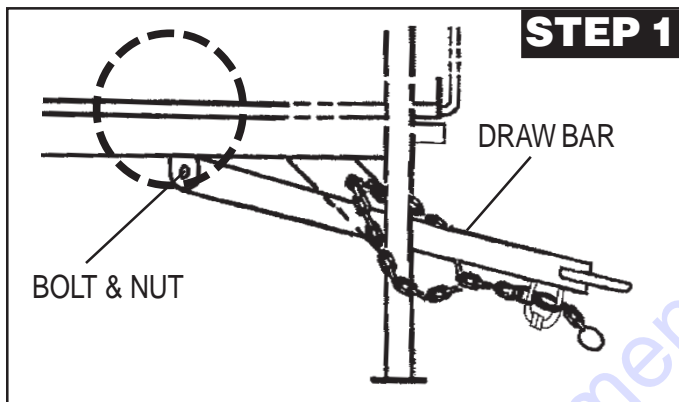
NOTE

Before towing, check with local and state laws for proper compliance.

The tow bar and chain must be properly attached to the mixer and towing vehicle prior to towing. Refer to the following installation instruction:

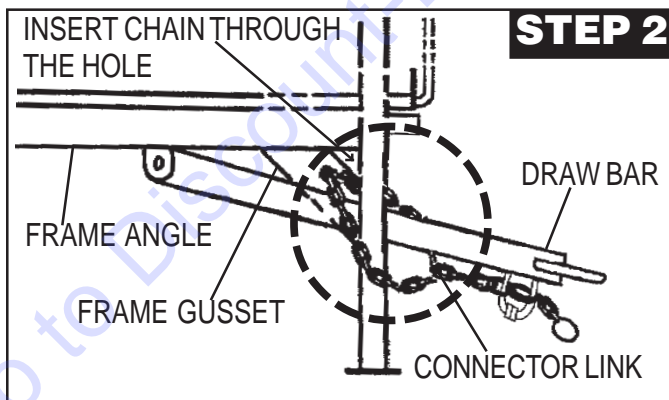
Step 1.

Insert the Draw Bar into the main frame. Secure, utilizing the 3/4" bolt (grade 5) and nylock nut. Tighten to 100 foot pounds.



Step 2.

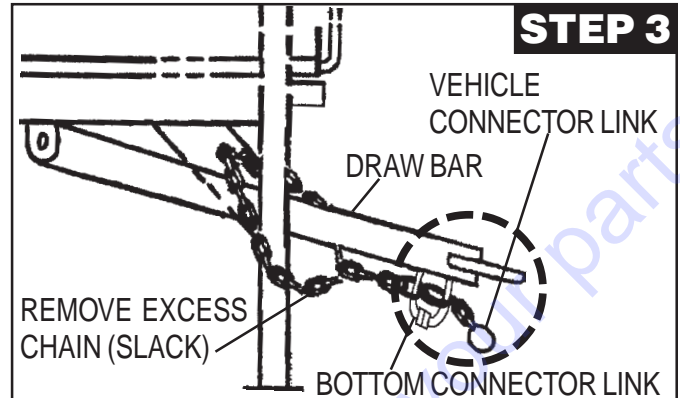
Install the chain through the hole located between the frame gusset and frame angle. Loop the chain together and place under the Draw Bar. Secure with connector link.



Step 3.

Extend the chain along the length of the Draw Bar, remove excess chain (slack) and secure to bottom connector link. Secure the chain to the towing vehicle, using the connector link.

STEP 3



NOTE

It is critical that the length of the chain be properly adjusted, to prevent the **Draw Bar** and the front mixer stand from dropping to the ground (contact) in the event the Draw Bar becomes disconnected from the towing vehicle.

If a new safety chain is required use P/N 13363. For a new connector link use P/N 01004.

CAUTION:



■ Check the following before towing:

BALL HITCH COUPLER

1. Check vehicle hitch, ball, and coupler for signs of wear or damage. Replace any parts that are worn or damaged before towing.
2. Use only the 2" ball diameter as indicated on your coupler. Use of any other ball diameter will create an extremely dangerous condition which can result in separation of the coupler and ball or ball failure.
3. Be sure the coupler is secured to the hitch ball and the lock lever is down tight and locked.
Recheck tightness again after towing about 50 miles.
4. Check that trailer safety chains are properly connected.

WM-120P/S — PADDLE BLADE ADJUSTMENT

Paddle blade adjustment is dependent on drum type, **polyethylene** or **steel**. Figure 3 illustrates the paddle blade adjustment when using a polyethylene drum. Figure 4 illustrates the paddle blade adjustment when using a steel drum. When using a polyethylene drum the paddle blade should come as close as possible to the drum end and side walls without making contact. If material builds up on the drum, use a rubber mallet to dislodge the material without adverse effect to the drum.

NOTE

EPOXY COMPATIBILITY - There are some epoxies and other chemicals used in certain applications that are **not** compatible with polyethylene drums. Since Whiteman Industries cannot control the end user's application of this product, we **will not** assume responsibility for the resulting damages when exposed to incompatible chemicals.

POLYETHYLENE DRUM

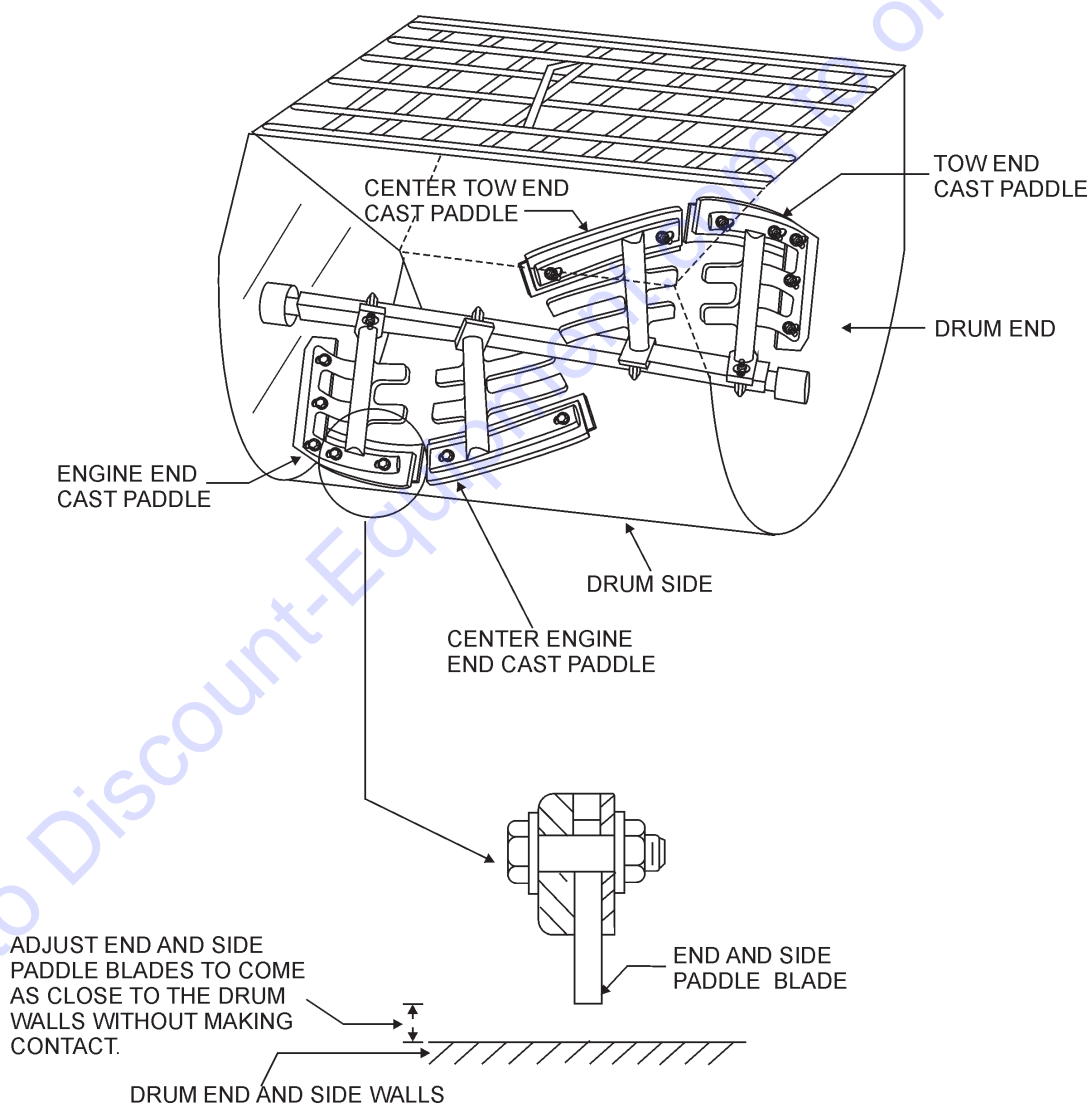


Figure 3. Paddle Blade Adjustment, Polyethylene Drum

WM-120P/S — PADDLE BLADE ADJUSTMENT

STEEL DRUM

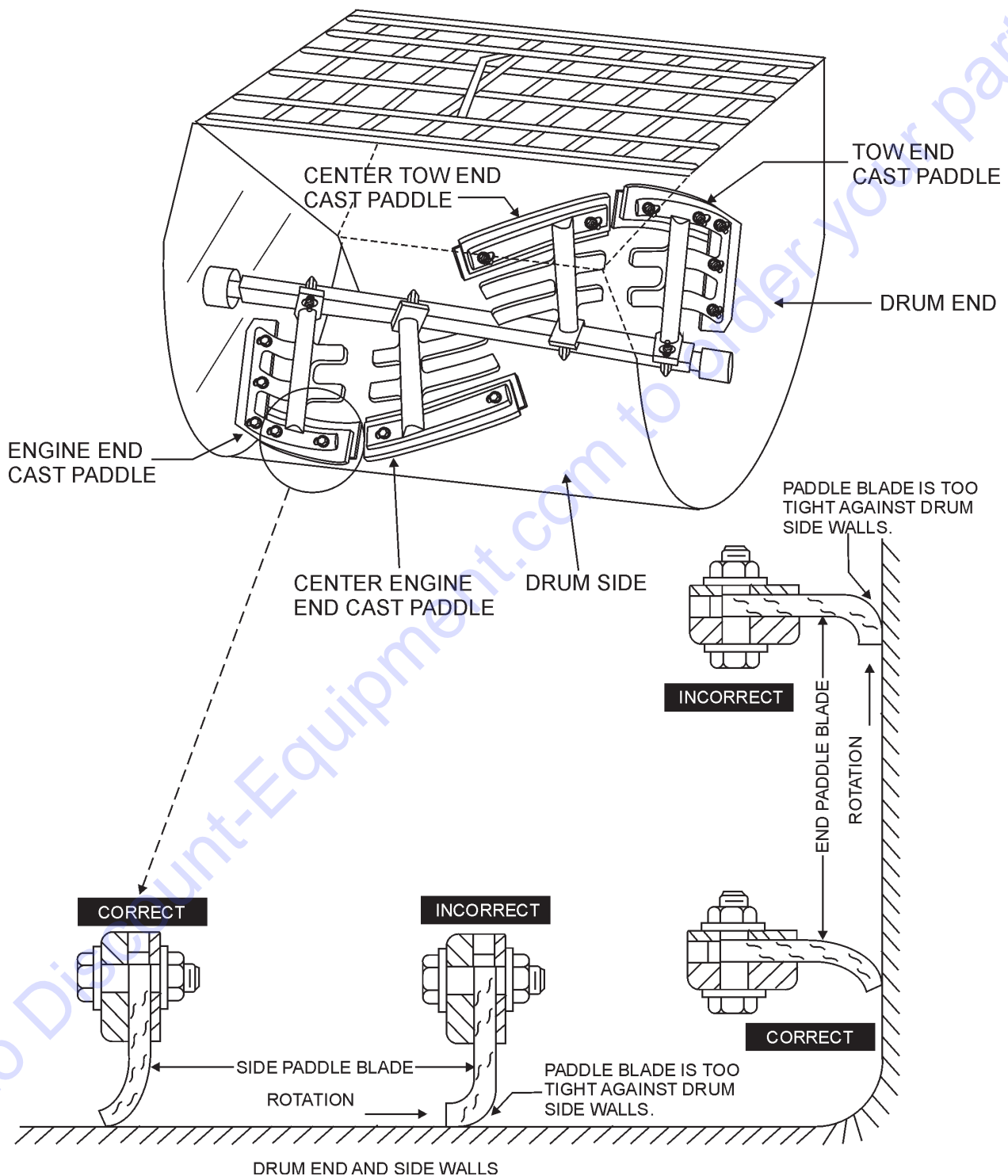


Figure 4. Paddle Blade Adjustment, Steel Drum

This section is intended to assist the operator with the initial start-up of the WM-120P/S mixer. It is extremely important that this section be read carefully before attempting to use the mixer in the field.

DO NOT use your mixer until this section is thoroughly understood.

CAUTION:



Failure to understand the operation of the WM-120P/S mixer could result in severe damage to the mixer or personal injury.

See Figure 1 (Page 10) for the location of any control referenced in this manual.

LUBRICANTS

ENGINE OIL

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

CLUTCH OIL

1. Check the oil level in the clutch compartment, fill with 30 SAE engine oil if needed.

REDUCTION GEAR OIL

1. Check the oil level in the reduction gear compartment, fill with 90 SAE transmission oil if needed.

ZERK GREASE FITTINGS

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

FUEL

1. 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.

CAUTION:



Handle fuel safely. Motor fuels are highly **flammable** and can be dangerous if mishandled. **DO NOT** smoke while refueling. Do not attempt to refuel mixer if the engine is hot or running. Always allow engine to **cool** before refueling.

STARTING THE ENGINE (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 5) to the **ON** position.

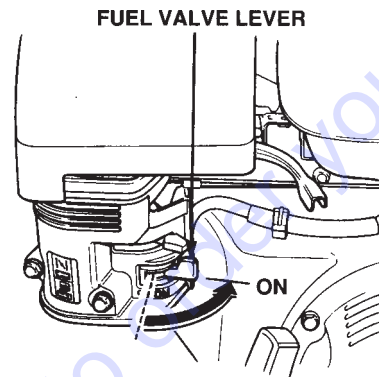


Figure 5. Fuel Shut-Off Lever

2. To start a cold engine, move the choke lever (Figure 6) to the **CLOSED** position.

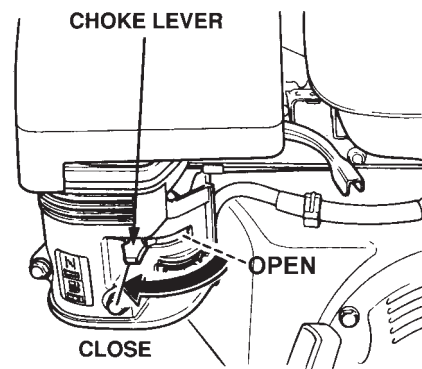


Figure 6. Choke Lever

3. Move the throttle lever (Figure 7) away from the slow position, about 1/3 of the way toward the fast position.

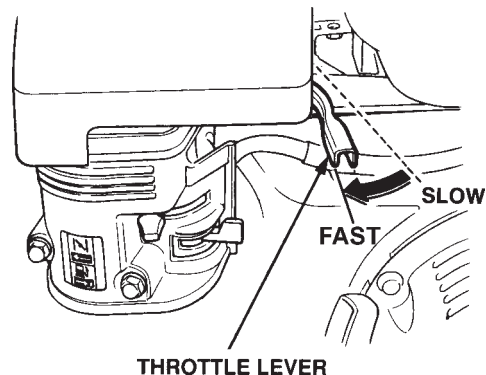


Figure 7. Throttle lever Lever

- Turn the engine switch (Figure 8) to the ON position.

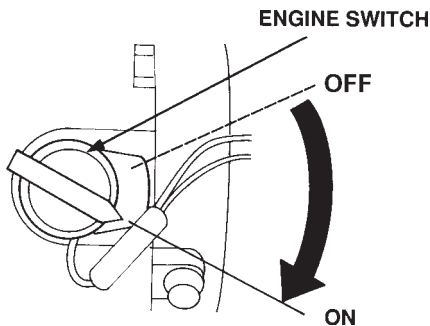


Figure 8. Engine ON/OFF Switch

- Located on the engine cover is the main **start/stop** switch (Figure 9). Pull this switch outward to start the engine.

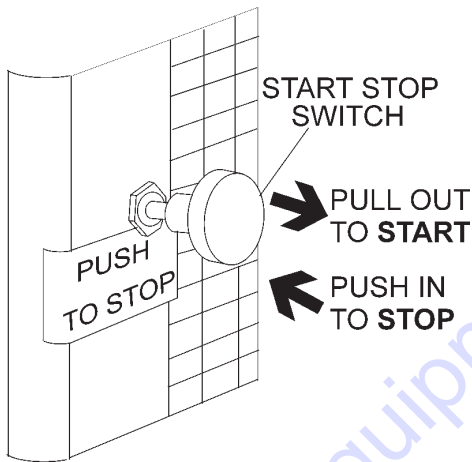


Figure 9. Main ON/OFF Switch

- Pull the **starter grip** (Figure 10) lightly until you feel resistance, then pull briskly. Return the starter grip gently. Push the clutch lever forward, toward the tow tongue end of the mixer. When engine starts adjust throttle lever so that paddle shaft inside mixer rotates between 30 - 40 RPM's. The number of RPM's will vary depending on engine type and load.

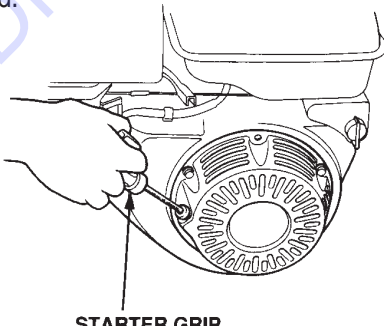


Figure 10. Starter Grip

MIXING

- The paddle shaft inside the drum should be rotating at this time.
- Lift the mixing bag compound onto the steel grate over the bag cutter and let the contents fall into the drum.
- Add water, and mix compound to desired consistency, then dump.

NOTE

Be sure to stand clear of the **dump handle** when the mixer is operational. Any binding of material between the mixer blades and the drum will cause the drum handle to move to the discharge position, thus causing bodily harm.

STARTING THE ELECTRIC MOTOR

- After the electric motor has been connected to a power source by a licensed electrician it can then be ready for use.
- Set the electric motor's ON/OFF switch (Figure 11) to the **ON** position.

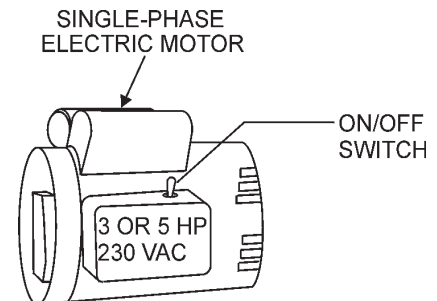


Figure 11. Main ON/OFF Switch

- Engage the clutch lever and verify that the paddle shaft is rotating, then follow steps 1, 2 and 3 outlined in the mixing section above.

STOPPING THE MIXER (gasoline)

- Push the main **start/stop** switch (Figure 9) inward to stop the engine.

turn the fuel shut-off valve to the **OFF** position

- Disconnect the spark plug.
- Clean drum of all debris and foreign matter.

STOPPING THE MIXER (electric)

- Place the electric motor's **start/stop** switch (Figure 11) in the **OFF** position.
- Disconnect the electric motor's extension cord from its power source.
- Clean drum of all debris and foreign matter.

WHEEL BEARINGS

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

Reassemble the hub and mount the wheel. Then tighten the adjusting nut, at the same time turn the wheel in both directions, until there is a slight bind to be sure all the bearing surfaces are in contact.

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

SHAFT SEALS CAUTION:



IMPORTANT -DRUM HEAD SEAL CARE

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

CLUTCH REDUCTION ASSEMBLY LUBRICATION

The clutch reduction assembly has two separate compartments. Each of which must be filled with its proper lubricant and checked at regular intervals.

The **clutch compartment** should be filled with a good grade of number 30 SAE engine oil which can be poured through the filler hole located just above the clutch inspection door on the opposite side of the transmission. Fill the clutch compartment with 30 SAE engine oil until it overflows the oil level plug located on the shifter side of the clutch compartment. Check this oil level every two or three months and add oil as required. Drain and refill once a year.

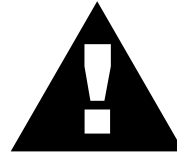
The **reduction gear, upper compartment** should be filled with number 90 SAE oil, as used in automobile transmissions. The filler plug is at the top of the reduction gear case and the oil level plug is on the same side of the case as the clutch lever. Fill the reduction gear compartment with 90 SAE transmission oil until it overflows the oil level plug. Check this oil level every two or three months and add oil as required. Drain and refill once a year.

PADDLE SHAFT BEARINGS

The paddle shafts in the Whiteman WM120P/S mixers rotate in sealed ball bearings, which require no additional lubrication as they are packed and sealed at the factory.

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

CAUTION:



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

BOLT CONNECTOR

A 5/8 " x 4 1/4" bolt is used as a connector pin located between the reduction gear assembly and the paddle shaft. It is designed to protect the transmission in the event a rock or other object should get caught between the paddle blade and the drum, this pin may shear. It is recommended that an extra bolt be kept on hand so as to quickly make a replacement, if necessary.

NOTE

This connector pin bolt is special. When replacing this bolt consult the parts section of this manual for the correct part number.

BEARING BRACKET

Grease the bearing bracket every month.

CLEANING

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

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

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

Clutch Adjustment Mechanical 12 CF Mixer

If the rotating mixing paddles appear to be losing rotational speed, it may be necessary to adjust the clutch. For optimum performance Multiquip recommends 35-55 lbs. applied pressure to the hand clutch lever. After the first initial operating hours (8) check the clutch for proper engagement pressure.

Clutch Adjustment Procedure

CAUTION:



Always stop the engine, disconnect the spark plug or electrical power cord before attempting this procedure.

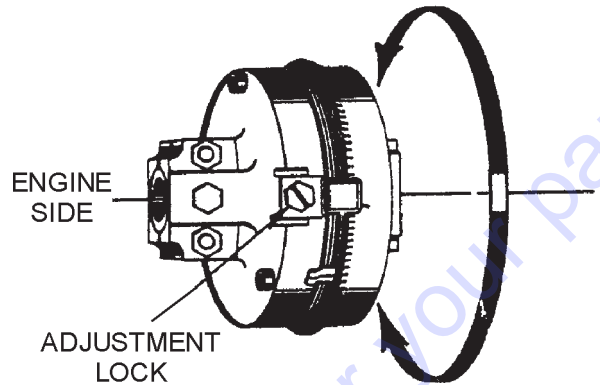
1. To gain access to the " Gear Reduction Compartment" remove the four 9/16-inch hex head bolts that secure the hood to the engine and remove engine hood.
2. Drain the clutch compartment oil by removing the magnetic 3/8 plug located at the bottom of the Gear Reduction Assembly.

NOTE

The Gear Reduction Compartment consist of two compartments, a lower and upper. The **lower** compartment houses the clutch, the **upper** compartment contains the actual gear reduction. Remember each compartment requires a different type of lubricating oil.

3. To gain access to the " **clutch Inspection door**" remove the six 1/2-inch capscrews and lockwashers that secure the clutch inspection door. Remove door and gasket.
4. Check that the clutch is disengaged by pulling the shifter lever towards the rear of the mixer.
5. Refer to Figure 12 for steps 5A through 5G:
 - A. Rotate the clutch using the recoil starter until the **adjustment lock** (Figure 12) P/N EM934040 is visible. Using a flat blade screwdriver loosen the adjustment bolt just enough to release the adjustment lock.
 - B. Using a punch, rotate the **adjusting ring** P/N EM 934045 one notch at a time in the counter-clockwise direction until a firm 35 to 55 lbs. pressure is felt when engaging the clutch lever (the lever should snap into the engaged position).

ROTATE COUNTER-CLOCKWISE
TO INCREASE CLUTCH PRESSURE



ROTATE CLOCKWISE
TO DECREASE CLUTCH PRESSURE

Figure 12. Clutch Adjustment Lock Location

NOTE

If the clutch cannot be adjusted, it may be necessary to inspect or replace the clutch.

- C. When the clutch has been satisfactorily adjusted reinstall the **adjustment lock** P/N EM 934040 and tighten lock bolt.
- D. Reinstall the **clutch Inspection door** using the six 1/2-inch capscrews and lockwashers, and also check that the gasket is not worn or broken.
- E. When the clutch has been satisfactorily adjusted reinstall the **adjustment lock** P/N EM 934040 and tighten lock bolt.
- F. Remove the 3/8-inch square head pipe plug located on the lower clutch compartment. Refill the clutch compartment with 2 1/4 quarts of SAE 30 motor oil to the level of the plug. When done reinstall plug.
- G. Reinstall spark plug wire or electric power cord. Start engine, check for proper clutch engagement and inspect for any oil leaks.

NOTE

Any questions regarding the above procedure please contact Discount-equipment

WM-120P/S — 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 Troubleshooting (Table 3) information shown below and on the proceeding page. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service

TABLE 3. ENGINE TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Poor starting	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.
	Spark plug is red?	Spark plug is fouled. Check transistor 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?	Transistor 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 axle 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.

WM-120P/S —TROUBLESHOOTING (ENGINE/MIXER)

TABLE 3. ENGINE TROUBLESHOOTING (CONTINUED)

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

TABLE 4. MIXER TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Blades will not rotate.	Broken connector pin?	Replace connector pin. Use P/N 963157 when ordering.
	Defective or mis-adjusted clutch?	Adjust or replace clutch.
Material leaking from drum ends.	Worn or defective paddle shaft seals?	Adjust or replace seals.
Drum difficult to discharge (tilt)	Malfunction in air-cleaner system, air filter clogged?	Clean or replace air filter.
	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.

WM-120P/S— — 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.

WM-120P/S— SUGGESTED SPARE PARTS

WM-120PS 1 TO 3 UNITS

Qty.	P/N	Description
6	491010	RUBBER LATCH ASSY.
1	EM200293	PADDLE ARM TOW SIDE
1	EM200294	PADDLE ARM CENTER TOW SIDE
1	EM200295	PADDLE ARM CENTER ENGINE SIDE
1	EM200296	PADDLE ARM ENGINE SIDE
3	EM200863	RUBBER BLADE KIT (STEEL DRUM)
3	EM204625	RUBBER BLADE KIT (PLASTIC DRUM)
2	EM200297	U-BOLT
2	EM200268	U-BOLT
2	3530	PADDLE SHAFT, SEAL KIT
2	EM902153	BEARING, PADDLE SHAFT
3	EM963157	CONNECTOR BOLT
1	EM934041	CLUTCH, DRIVEN MEMBER

WM-120PS 5 TO 10 UNITS

Qty.	P/N	Description
10	491010	RUBBER LATCH ASSY.
2	EM200293	PADDLE ARM TOW SIDE
2	EM200294	PADDLE ARM CENTER TOW SIDE
2	EM200295	PADDLE ARM CENTER ENGINE SIDE
2	EM200296	PADDLE ARM ENGINE SIDE
6	EM200863	RUBBER BLADE KIT (STEEL DRUM)
3	EM204625	RUBBER BLADE KIT (PLASTIC DRUM)
4	EM200297	U-BOLT
4	EM200268	U-BOLT
4	3530	PADDLE SHAFT, SEAL KIT
4	EM902153	BEARING, PADDLE SHAFT
5	EM963157	CONNECTOR BOLT
2	EM934041	CLUTCH, DRIVEN MEMBER

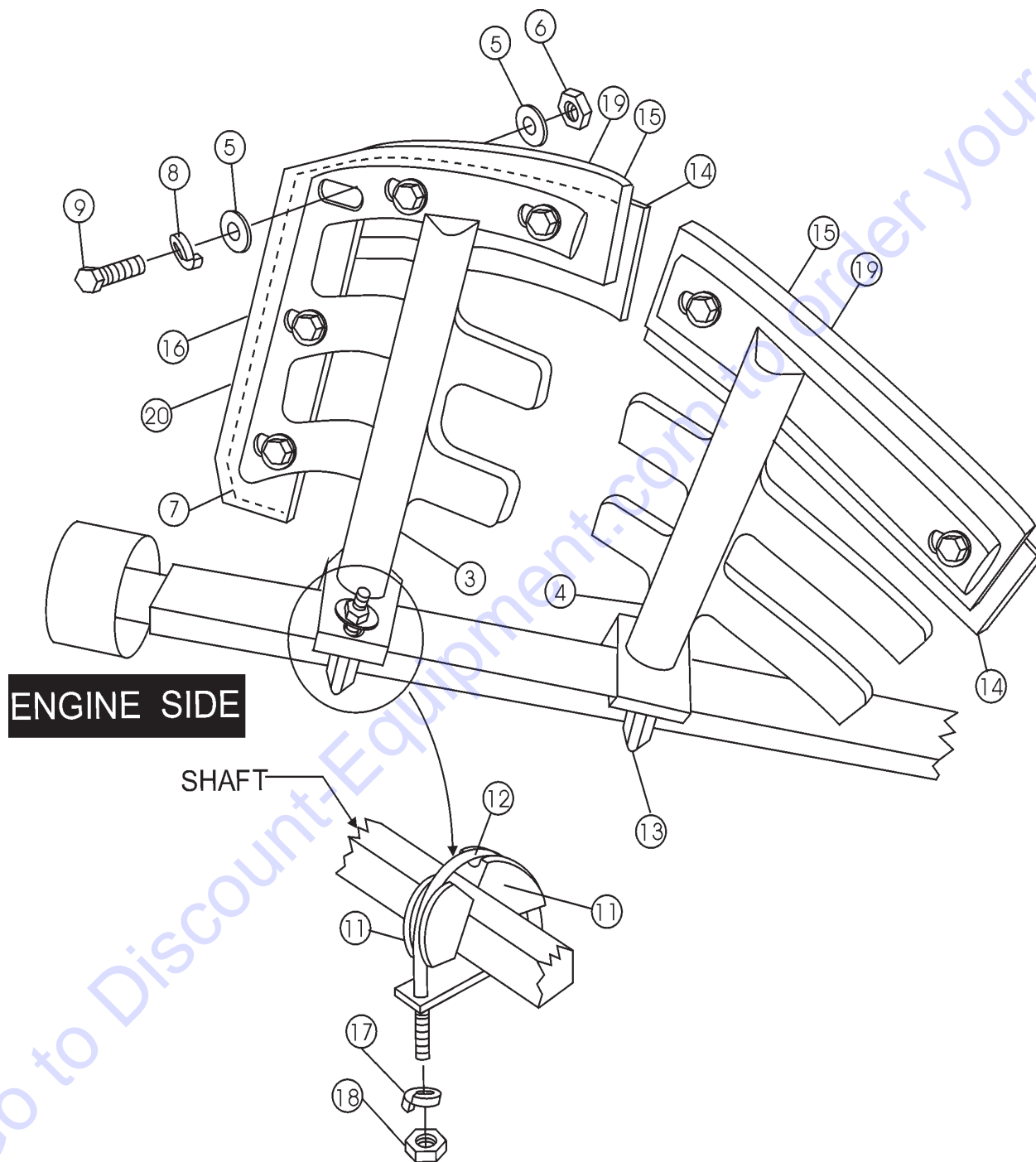
NOTE

Part numbers on this Suggested Spare Parts List may supercede/replace the P/N shown in the text pages of this book.

WM-120P/S — ENGINE SIDE PADDLE ASSY.

ENGINE SIDE PADDLE ASSY.

USED IN POLYETHYLENE AND STEEL DRUMS



WM-120P/S — ENGINE SIDE PADDLE ASSY.

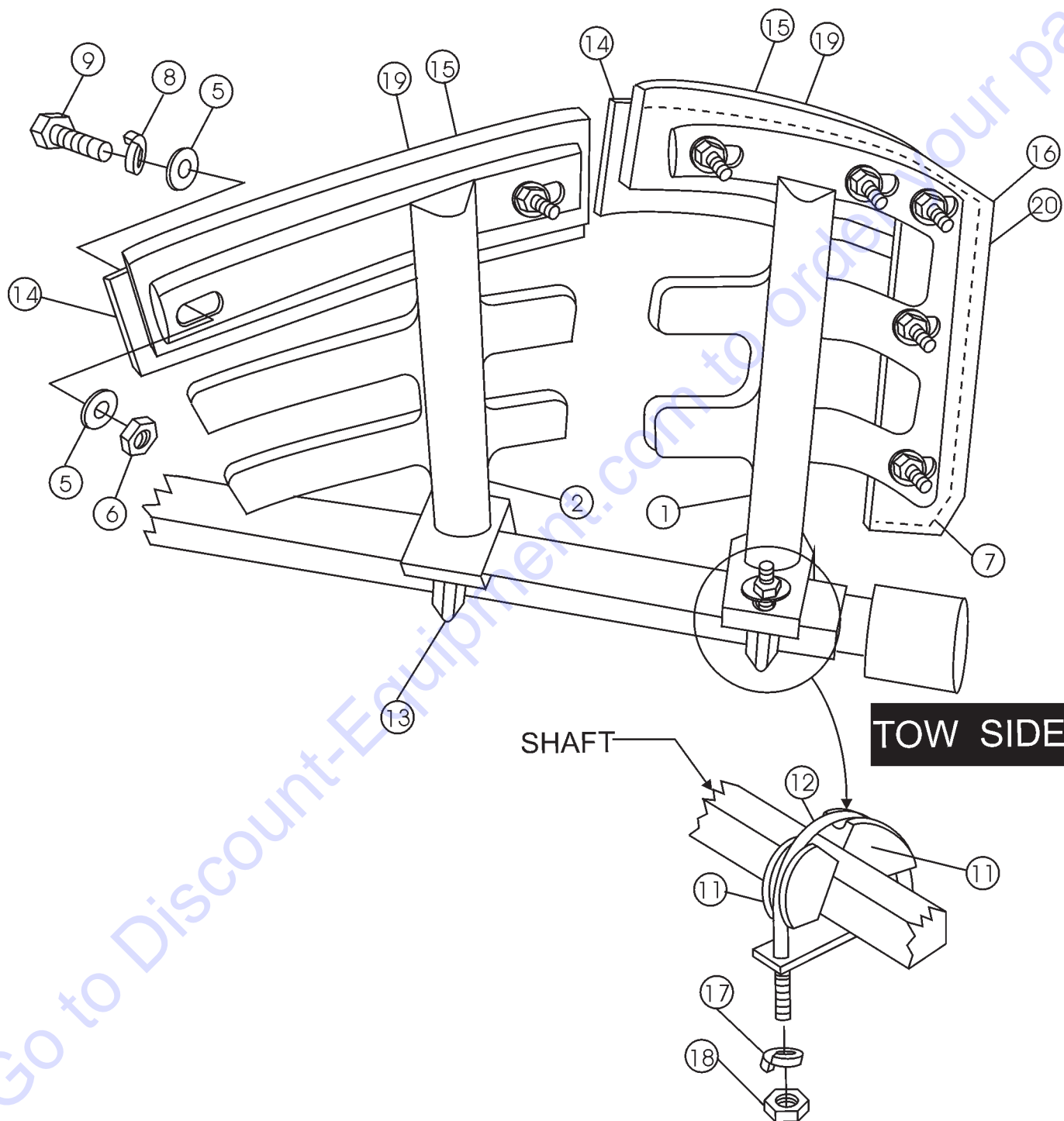
ENGINE SIDE PADDLE ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
3	EM200296	PADDLE ARM ENGINE SIDE	1	
4	EM200295	PADDLE ARM CENTER ENGINE SIDE	1	
5	0300B	FLAT WASHER 5/16	28	
6	0161D	HEX NUT 5/16	14	
7*#	EM203433	END BACK-UP BLADE	2	
8	0161C	LOCK WASHER 5/16	14	
9	1207	HHCS 5/16-18 1 3/4"	14	
11	EM200292	PADDLE ARM INSERT CASTING	8	
12	EM200297	END PADDLE U-BOLT	2	
13	EM200268	CENTER PADDLE J-BOLT	2	
14*#	EM203432	CENTER BACK-UP BLADE	4	
15#	EM507519	TOP PLASTIC BLADE	4	POLYETHYLENE DRUM ONLY
16#	EM507518	END PLASTIC BLADE	2	POLYETHYLENE DRUM ONLY
17	5054A	LOCK WASHER 1/2"	8	
18	968011	HEX NUT 1/2-13	8	
19*	EM200212	TOP RUBBER BLADE	4	STEEL DRUM ONLY
20*	EM200213	END RUBBER BLADE	2	STEEL DRUM ONLY
	EM200863	BLADE KIT(STEEL DRUM ONLY)	1	INCLUDES ITEMS W/* AND MTG. HDW.
	EM204625	BLADE KIT, (POLY DRUM ONLY)	1	INCLUDES ITEMS W/# AND MTG. HDW.

WM-120P/S — TOW SIDE PADDLE ASSY.

TOW SIDE PADDLE ASSY.

USED IN POLYETHYLENE AND STEEL DRUMS



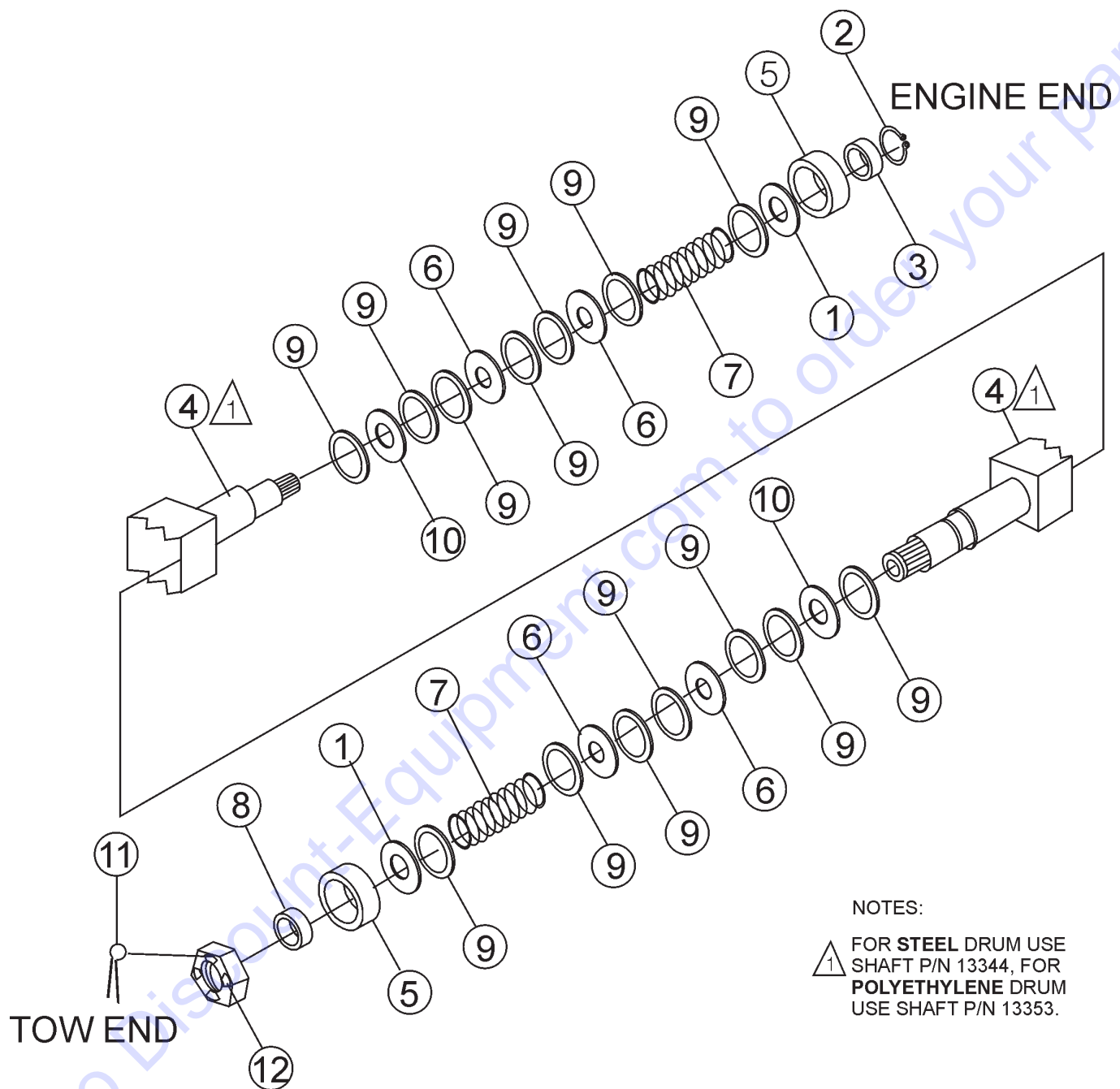
WM-120P/S — TOW SIDE PADDLE ASSY.

TOW SIDE PADDLE ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	EM200293	PADDLE ARM TOW SIDE	1	INCLUDES S/N 72395319
2	EM200294	PADDLE ARM CENTER TOW SIDE	1	
5	0300B	FLAT WASHER 5/16	28	
6	0161D	HEX NUT 5/16	14	
7*#	EM203433	END BACK-UP BLADE	2	
8	0161C	LOCK WASHER 5/16	14	
9	1207	HHCS 5/16-18 1 3/4"	14	
11	EM200292	PADDLE ARM INSERT CASTING	8	
12	EM200297	END PADDLE U-BOLT	2	
13	EM200268	CENTER PADDLE U-BOLT	2	
14*#	EM203432	CENTER BACK-UP BLADE	4	
15#	EM507519	TOP PLASTIC BLADE	4	POLYETHYLENE DRUM ONLY
16#	EM507518	END PLASTIC BLADE	2	POLYETHYLENE DRUM ONLY
17	5054A	LOCL WASHER 1/2"	8	
18	968011	HEX NUT 1/2-13	8	
19*	EM200212	TOP RUBBER BLADE	4	STEEL DRUM ONLY
20*	EM200213	END RUBBER BLADE	2	STEEL DRUM ONLY
	EM200863	BLADE KIT(STEEL DRUN ONLY)	1	INCLUDES ITEMS W/* AND MTG. HDW.
	EM204625	BLADE KIT, (POLY DRUM ONLY).....	1	INCLUDES ITEMS W/# AND MTG. HDW.
	EM203028	HDW. KIT, (FOR RUBBER OR POLY BLADES)...	1	INCLUDED IN BLADE KITS

WM-120P/S — PADDLE SHAFT ASSY.

TOW SIDE PADDLE ASSY.



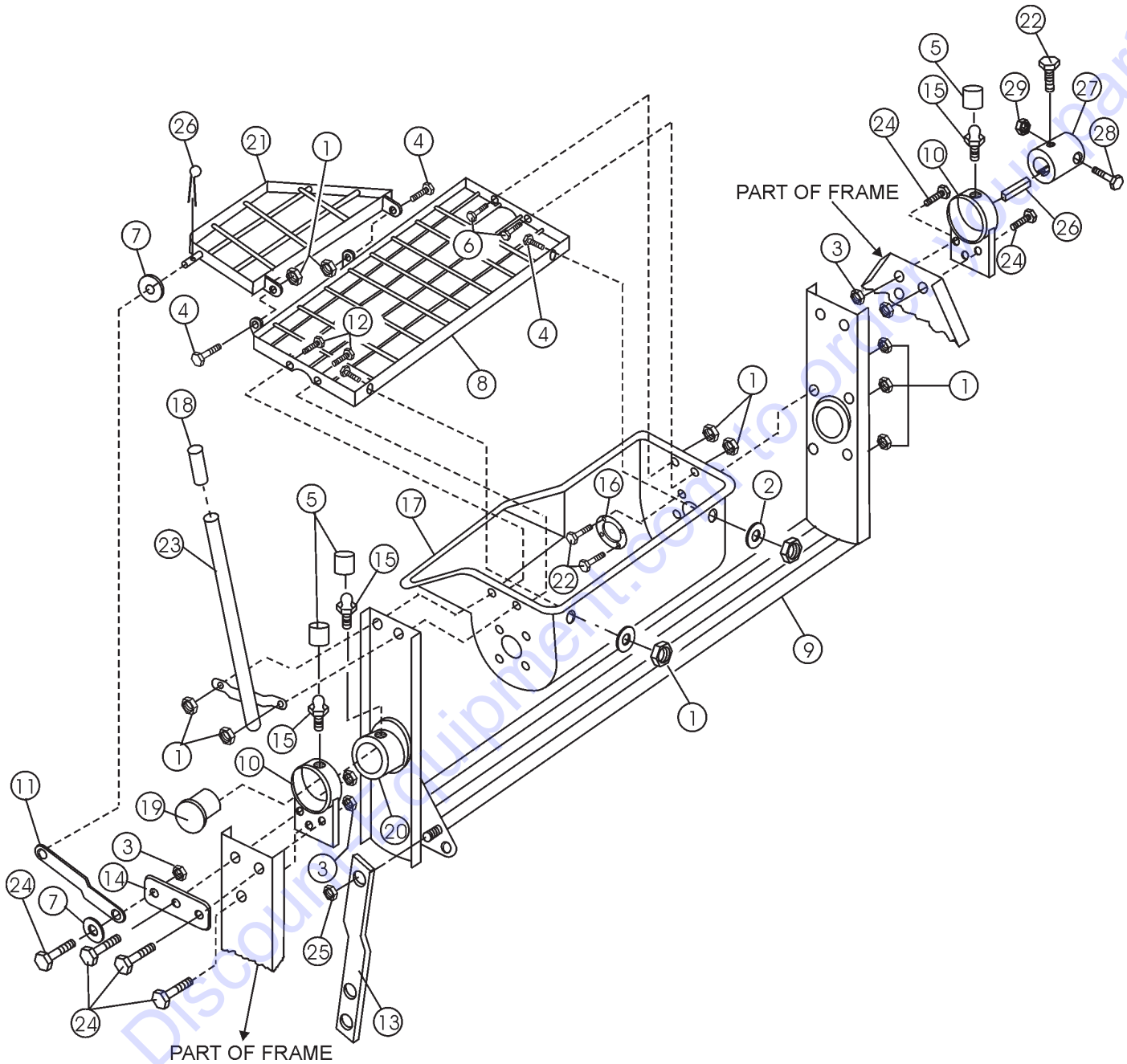
WM-120P/S — PADDLE SHAFT ASSY.

TOW SIDE PADDLE ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1*	13002	SEAL BEARING 1-1/2 ID	2	
2	13348	RING, SNAP	1	
3	13349	SPACER, SNAP RING	1	
4	13353	SHAFT, PADDLE WM120PM	1	POLYETHYLENE DRUM ONLY
4	13344	SHAFT, PADDLE WM120PM	1	STEEL DRUM ONLY
5	EM902153	BEARING, BALL	2	
6*	3019	SEAL PADDLE SHAFT, 1-1/8 ID	4	
7	3024	SPRING PADDLE SHAFT	2	
8	3047	SPACER, 2 X 1-1/8 X 1/4L	1	
9	3061	SPACER 2-7/8 X 2-1/8 X .105	14	
10*	3494	SEAL, URETHANE 1-1/4 ID	2	
11	5028B	PIN, COTTER 1/8 X 2	1	POLYETHYLENE DRUM ONLY
12	8164	NUT, SLOTTED HEX JAM	1	POLYETHYLENE DRUM ONLY
	3530	PADDLE SHAFT SEAL KIT	1	INCLUDES ITEMS W/

WM-120P/S — POLYETHYLENE DRUM ASSY.

POLYETHYLENE DRUM ASSY.



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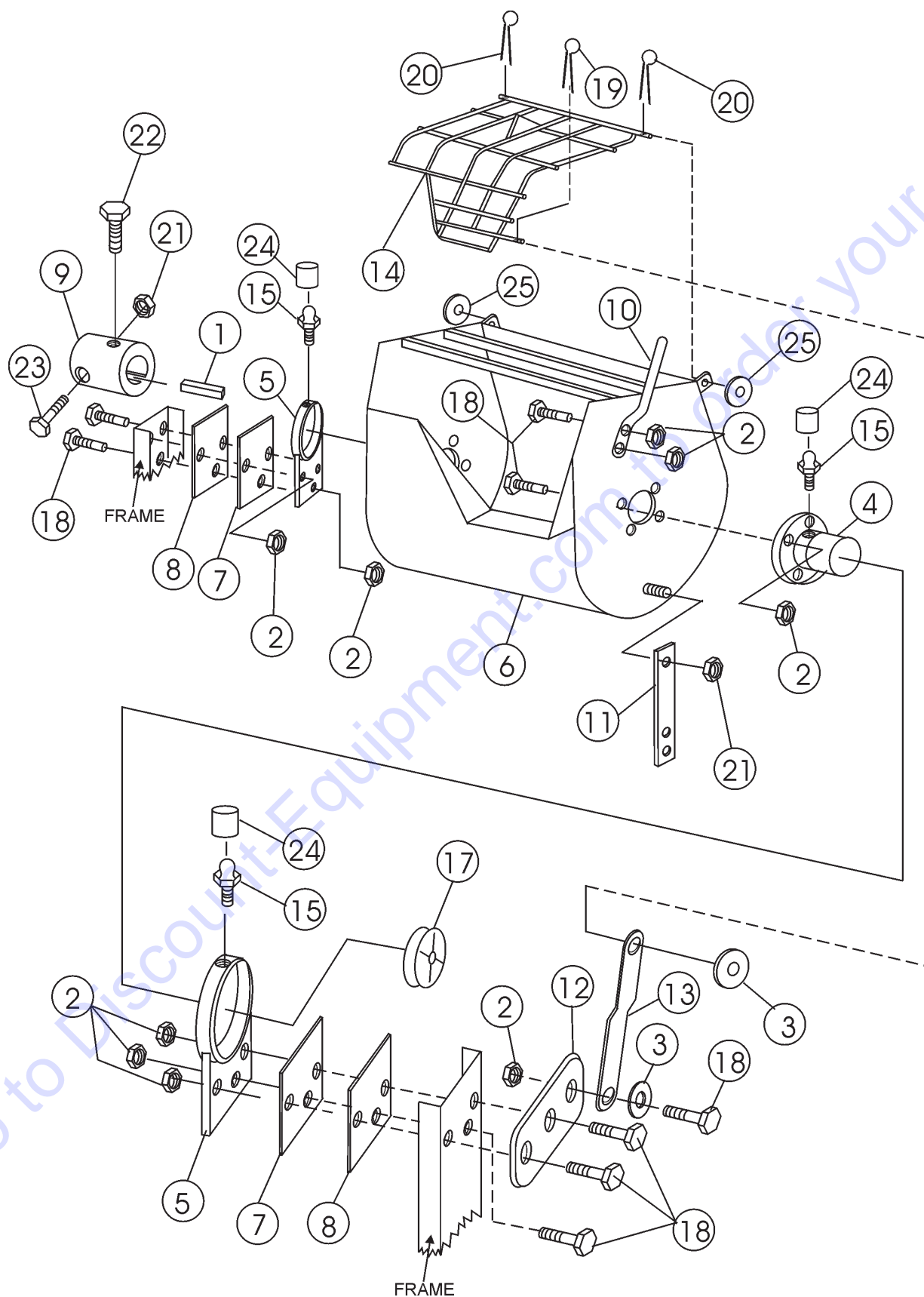
WM-120P/S — POLYETHYLENE DRUM ASSY.

POLYETHYLENE DRUM ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	10133	NUT, NYLOC 3/8-16	16	
2	10136	WASHER, FLAT, 3/8 SAE	2	
3	10176	NUT, NYLOC 1/2-13	7	
4	1023	SCREW, HHC 3/8-16 X 1 1/4	4	
5	1162 A	CAP, GREASE ZERK	4	
6	1284	SCREW, HHC 3/8-16 X 1 1/2	2	
7	13211	WASHER, FLAT, 1/2 USS	1	
8	13270	GRATE, 120 STATIONARY W/A	1	
9	13357	TUB FRAME W/A, 120PM	1	
10	13361	BEARING BRACKET	2	
11	13362	BAR, GRATE OPENING	1	
12	1665	SCREW, HHC 3/8-16 X 2	2	
13	511583	DRUM LATCH	1	
14	EM203335	HINGE, GRILL CLOSING BAR	1	
15	2621	ZERK, GREASE STR 1/4-28	4	
16	3006	SUPPORT DISC-BRG.	2	
17	3042	DRUM, PLASTIC 12 CU. FT. MIXER	1	
18	3101	GRIP, 1"	1	
19	3249	CAP, DUST	1	
20	3291	BOSS, BEARING	2	
21	3309	GRATE, MOVEABLE W/A	1	
22	3480	SCREW, FHC 3/8-16 X 2. PLATED	8	
23	3512	HANDLE, DUMP W/A	1	
24	5218	SCREW, HHC 1/2-13 X 1 1/2	7	
25	9503	NUT, NYLOC 5/8-11	1	
26	010022	KEY, 3/8 SQ X 1 3/4	1	
27	200255	COUPLER, PADDLE SHAFT	1	
28	963157	SCREW, HHC 5/8-11 X 4-1/2, GR2	1	
29	9503	NUT, NYLOC 5/8-11	2	
30	961019	SCREW, SQHS, 3/8-16 X 1-1/4, CUP	2	

WM-120P/S — STEEL DRUM ASSY.

STEEL DRUM ASSY.

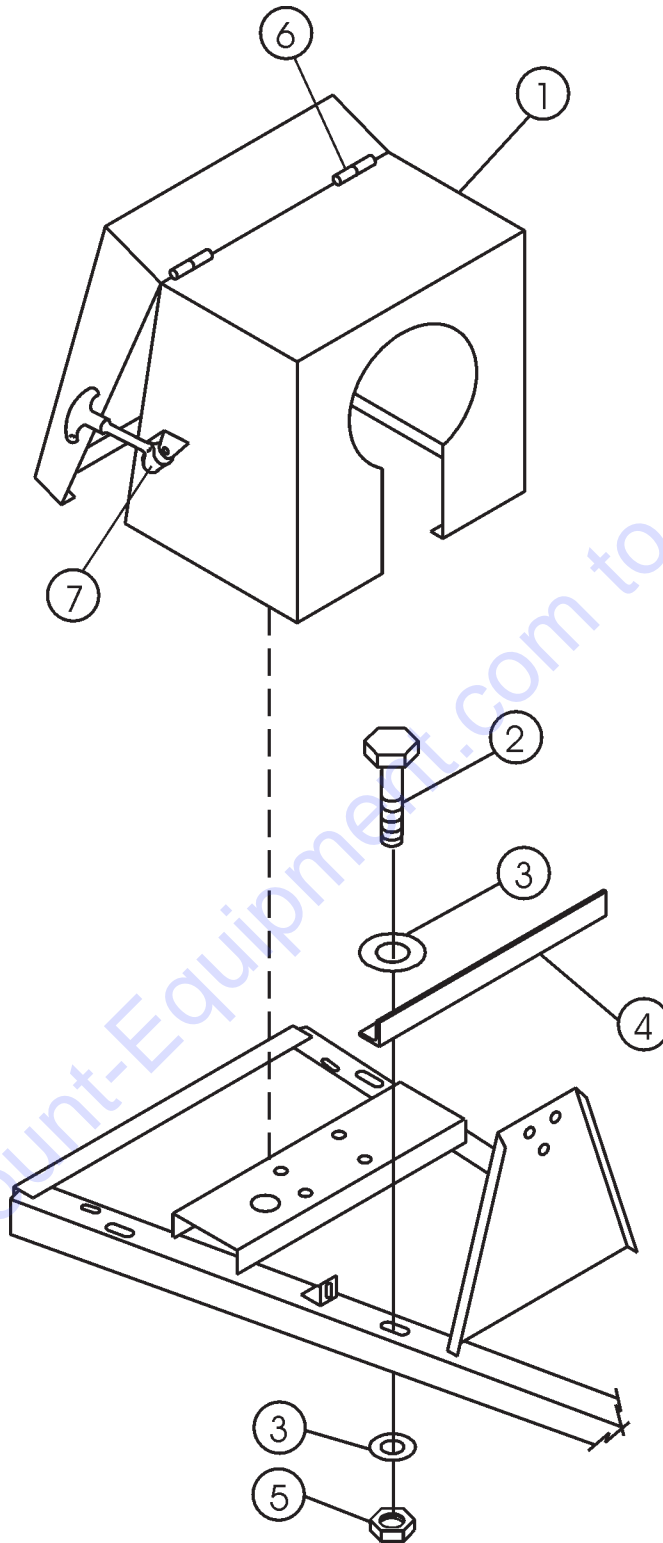


WM-120P/S — STEEL DRUM ASSY.

STEEL DRUM ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM010022	KEY, 3/8 SQ X 1 3/4	1	
2	10176	NUT, NYLOC 1/2-13	17	
3	13211	WASHER, FLAT, 1/2 USS	4	
4	13277	BOSS, BEARING	2	
5	13345	BEARING BRACKET	2	
6	13346	TUB, STEEL	1	
7	EM200079	SHIM, BEARING BRKT. .135	2	
8	EM200080	SHIM, BEARING BRKT. .187	2	
9	EM200255	COUPLER, PADDLE SHAFT	1	
10	EM201537	DUMP LEVER	1	
11	EM201731	DRUM LATCH	1	
12	EM203335	HINGE, GRILL CLOSING BAR	1	
13	EM203344	BAR, GRILL OPENING	1	
14	EM203449	GRILL, DRUM	1	
15	2621	ZERK, GREASE STR 1/4-28	4	
16	3214	SCREW, HHC 1/2-13 X 1 1/4	3	
17	3249	CAP, DUST	1	
18	5218	SCREW, HHC 1/2-13 X 1 1/2	12	
19	7170	PIN, HITCH CLIP, 5/32 X 3-5/16	1	
20	EM924015	PIN, COTTER, 3/16 X 1	2	
21	9503	NUT, NYLOC 5/8-11	2	
22	EM961019	SCREW, SQHS, 3/8-16 X 1-1/4, CUP	2	
23	EM963157	SCREW, HHC 5/8-11 X 4-1/2, GR2	1	
24	1162A	CAP, GREASE ZERK	1	

CAB ASSY.



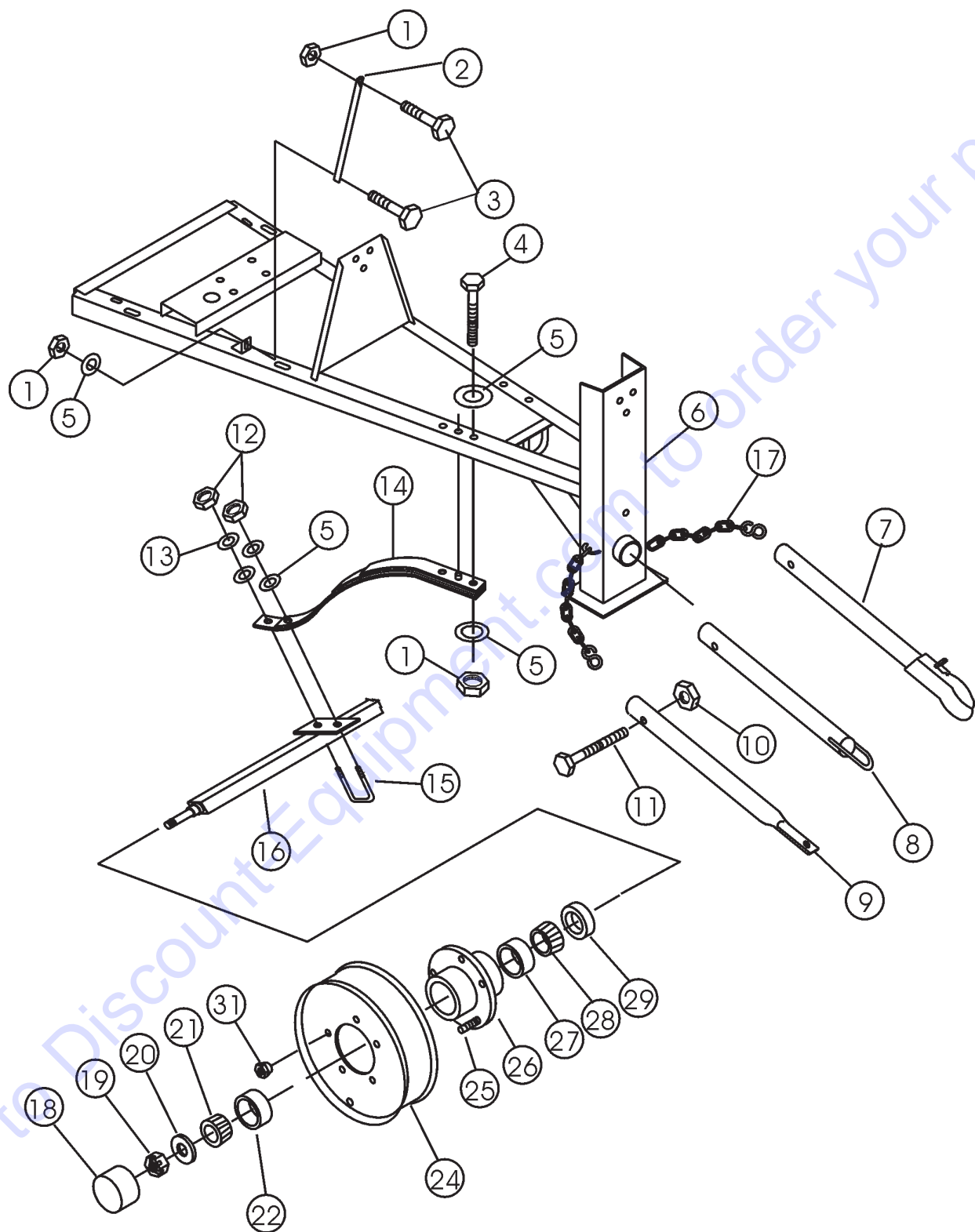
CAB ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM202957	CAB DOOR, COMPLETE ASSY.	1	
2	1284	HHCS 3/8-16 X 1.1/2"	4	
3	4001	FLAT WASHER 3/8"	8	
4	202771	CAB FRONT SUPPORT ANGLE	1	
5	10133	LOCK NUT 3/8-16	4	
6	13333	LATCH PIN ASSY.	2	
7	491010	RUBBER LATCH ASSY.	2	

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WM-120P/S — FRAME, WHEEL, TIRE AND HUB ASSY.

FRAME, WHEEL, TIRE AND HUB ASSY.



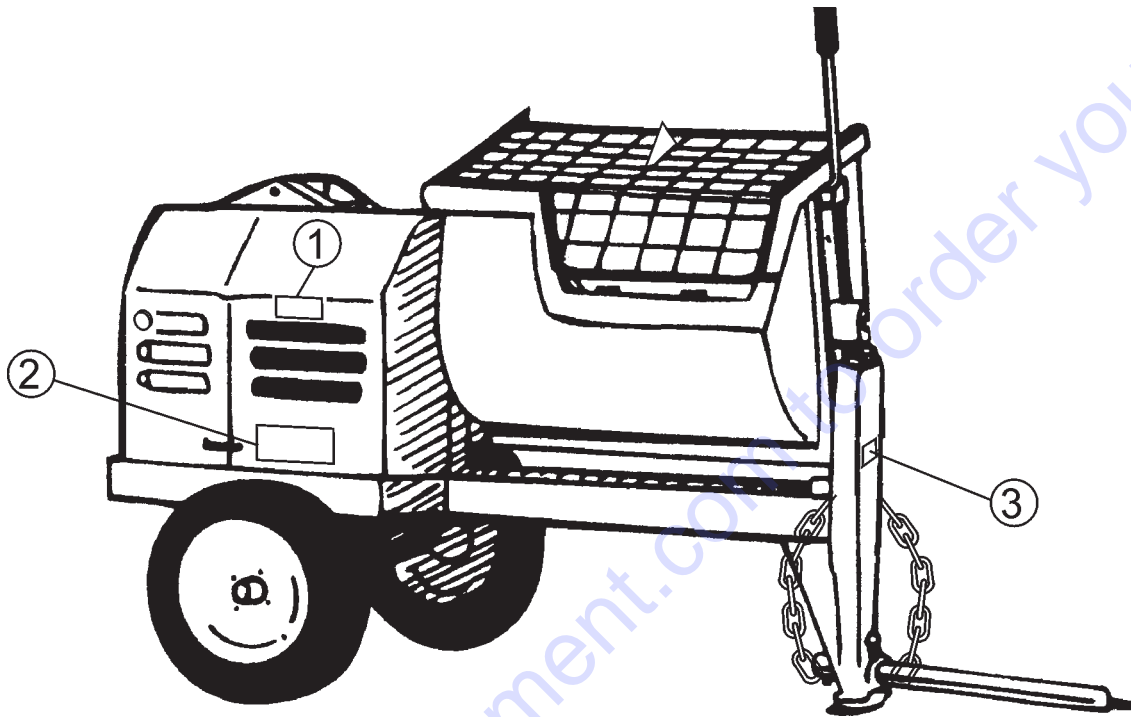
WM-120P/S — FRAME, WHEEL, TIRE AND HUB ASSY.

FRAME, WHEEL, TIRE AND HUB ASSY.

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	10176	LOCK NUT 1/2-13	8	
2	EM204086	TRANSMISSION SUPPORT BAR	2	
3	5218	HHCS 1/2-13 X 1.1/2"	4	
4	2549	HHCS 1/2-13 X 3"	4	
5	0447	FLAT WASHER 1/2"	14	
6	EM202765	FRAME W/A	1	
7	EBC-1	BALL HITCH TOW BAR	1	CONTACT UNIT SALES DEPT.
8	ELC-1	PINTLE EYE TOW BAR	1	CONTACT UNIT SALES DEPT.
9	EDC-1	PIN HOLE TOW BAR	1	CONTACT UNIT SALES DEPT.
10	5070B	LOCK NUT 3/4-10	1	
11	EM963580	HHCS 3/4-10 X 4.1/2"	1	
12	8244	HEX NUT 1/2-20	4	
13	5054A	LOCK WASHER 1/2"	4	
14	EM201225	AXLE SPRING	2	
15	EM966204	SQUARE AXLE U-BOLT 1.1/2"	2	
16	EM202983	AXLE	1	
17	13363	SAFETY CHAIN ASSY.	2	
18#	EM941278	GREASE CAP	2	
19#	EM968302	AXLE NUT	2	
20#	EM923161	AXLE WASHER	2	
21#	EM903113	OUTER BEARING CONE	2	
22#	EM903012	OUTER BEARING CUP	2	
24#	EM941257	WHEEL 13 X 4.1/2-5 ON 4.1/2" BC	2	
25#	EM941279	SERRATED WHEEL STUD	10	
26#	EM941277	HUB INC.	2	
27#	EM903169	INNER BEARING CUP	2	
28#	EM903168	INNER BEARING CONE	2	
29#	EM914324	SEAL	2	
31	EM941280	WHEEL NUT	10	

WM-120P/S — NAME PLATE AND DECALS

NAME PLATE AND DECALS



WM-120P/S — NAME PLATE AND DECALS

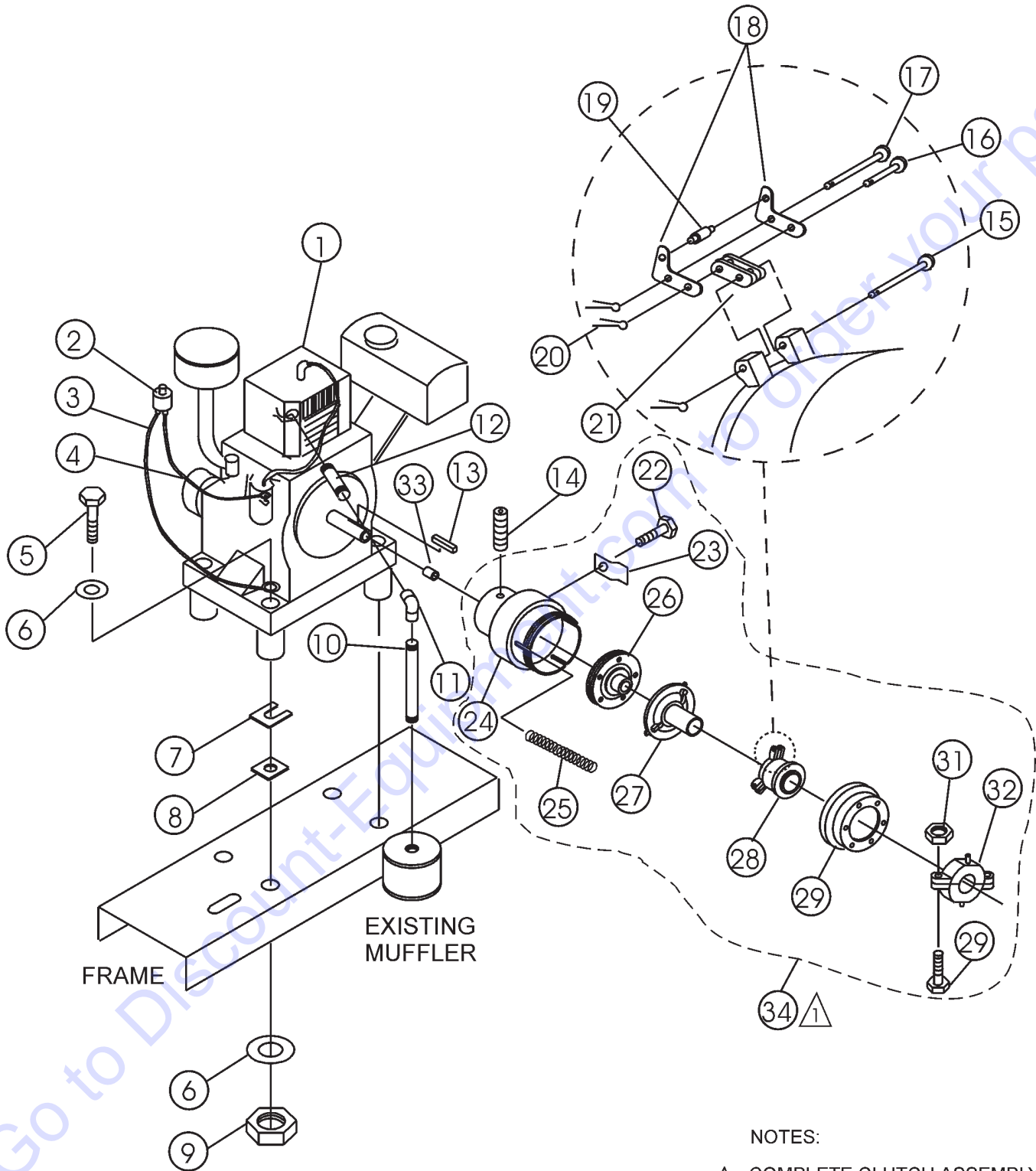
NAME PLATE AND DECALS

<u>NO</u>	<u>PART NO</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1*	EM948423	DECAL : CAUTION	1	
2*	924801	DECAL : SAFETY INSTRUCTIONS	1	
3		PLATE, SERIAL NO.	1	CONTACT DISCOUNT-EQUIPMENT. W/MODEL
	DCLWM120PS	KIT, DECAL	1	& S/N INCLUDES ITEMS W/*

SEE DECAL ILLUSTRATIONS ON PAGE 7.

WM-120P/S — WISCONSIN ENGINE ASSY.

WISCONSIN ENGINE ASSY.



NOTES:

△ COMPLETE CLUTCH ASSEMBLY, ITEM 34, P/N 934022 INCLUDES ALL ITEMS WITHIN OUTLINE.

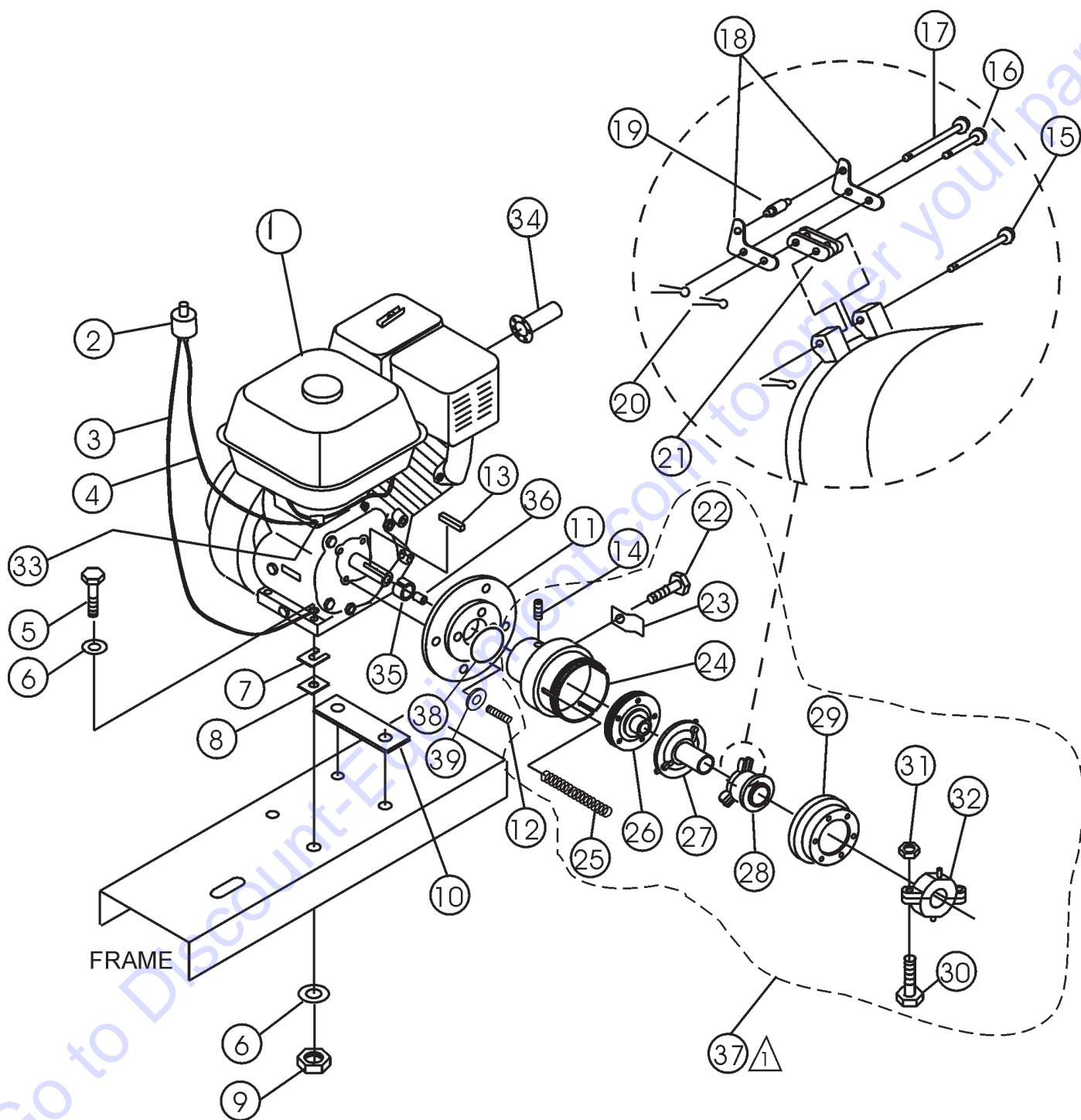
WM-120P/S — WISCONSIN ENGINE ASSY.

WISCONSIN ENGINE ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	EM937029	9.2HP WISCONSIN ENGINE	1	
2	EM940734	KILL SWITCH	1	
3	EM203298	ENGINE KILL GROUND WIRE	1	
4	EM203299	ENGINEKILL WIRE	1	
5	0169	HHCS 3/8-16 X 3"	4	
6	10136	FLAT WASHER 3/8"	8	
7	EM100235	ENGINE SHIM .030		
	EM100236	ENGINE SHIM .018		
	EM100237	ENGINE SHIM .010		
8	EM203007	ENGINE PAD .187		
	EM203016	ENGINE PAD .135		
	EM203017	ENGINE PAD .060		
9	10133	LOCK NUT 3/8-16	4	
10	EM912104	1" PIPE NIPPLE X 10" LONG	1	
11	5081	1' 90 DEG. ELBOW	1	
12	EM912097	1' PIPE NIPPLE X 5" LONG	1	
13	EM010009	SQ KEY 1/4 X 1/4 X 1"	1	
14	EM961045	SHSS 5/16-18 X 1/2" NYLOC	1	
15#	EM925013	LEVER PIN	3	
16#	EM925018	SHORT LINK PIN	3	
17#	EM925016	LONG LINK PIN	3	
18#	EM959012	LEVER	6	
19#	EM934054	ROLLER	3	
20#	5117	COTTER PIN	9	
21#	EM934053	CONNECTING LINK	6	
22	9503	SLOTTED HHCS 1/4-20 X 1/2"	1	
23#	EM934040	ADJUSTING LOCK	1	
24#	EM934039	CLUTCH HOUSING	1	
25#	EM918009	SPRING	3	
26#	EM934041	SPLINED CENTER W/FACING	1	
27#	EM934042	PRESSURE PLATE ASM	1	
28#	EM934043	RELEASE SLEEVE	1	
29#	EM934045	ADJUSTING RING	1	
30#	EM963289	BOLT	2	
31#	EM969009	LOCK NUT	2	
32#	EM934044	RELEASE BEARING ASM	1	
33	EM801570	PILOT BUSHING	1	
34	EM934022	CLUTCH ASM	1	INCLUDES ITEMSW/#

WM-120P/S — HONDA ENGINE ASSY.

HONDA ENGINE ASSY.



NOTES:

△ 1 COMPLETE CLUTCH ASSEMBLY,
ITEM 37, P/N 934022 INCLUDES
ALL ITEMS WITHIN OUTLINE.

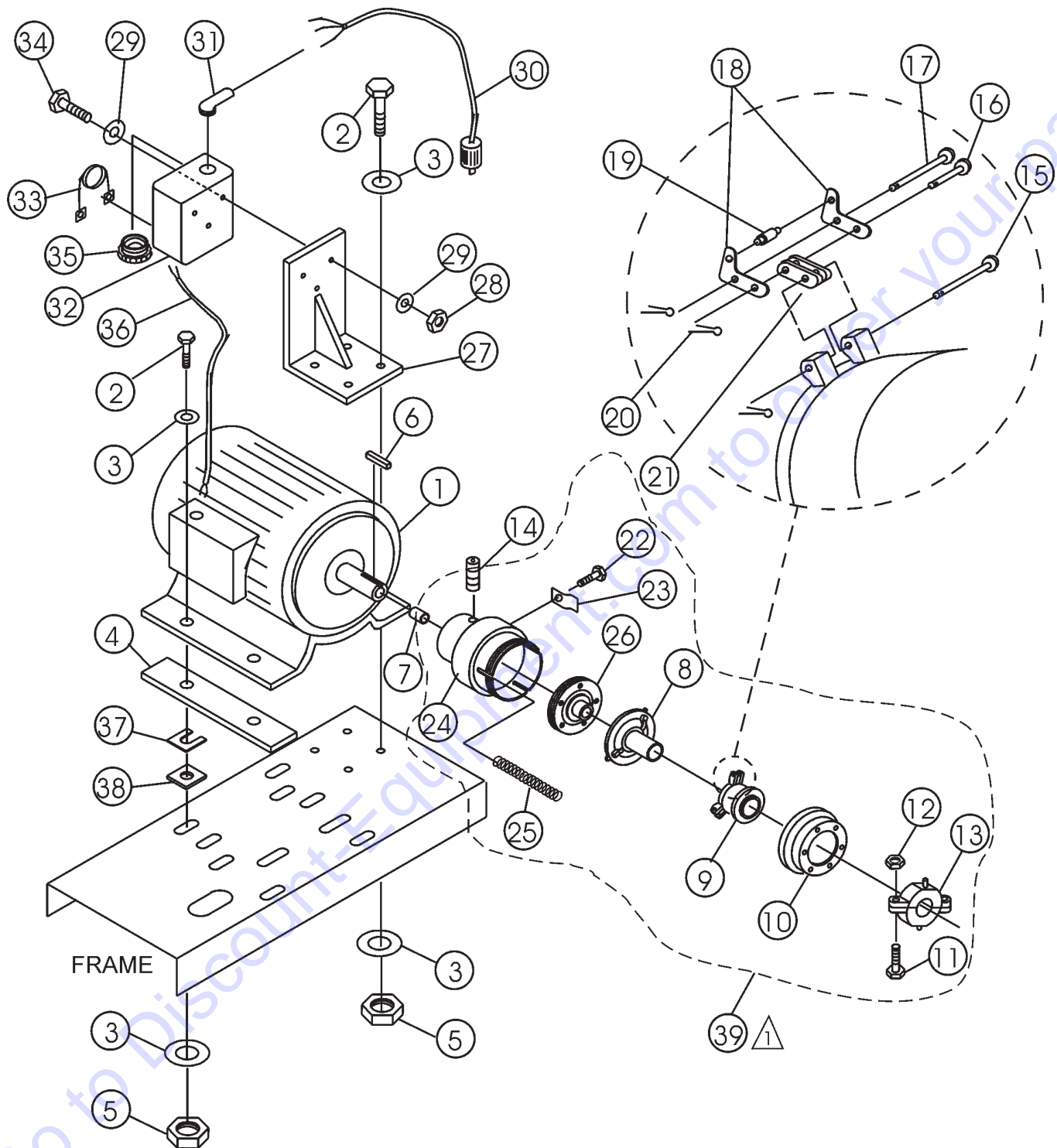
WM-120P/S — HONDA ENGINE ASSY.

HONDA ENGINE ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	EM203039	11HP HONDA ENGINE	1	
2	EM940734	KILL SWITCH	1	
3	EM203298	ENGINE KILL GROUND WIRE	1	
4	EM203035	ENGINE KILL WIRE	1	
5	9154	HHCS 3/8-16 X 1.3/4"	4	
6	10136	FLAT WASHER 3/8"	8	
7	EM100235	ENGINE SHIM .030	AR	
	EM100236	ENGINE SHIM .018	AR	
	EM100237	ENGINE SHIM .010	AR	
8	EM203007	ENGINE PAD .187	AR	
	EM203016	ENGINE PAD .135	AR	
	EM203017	ENGINE PAD .060	AR	
9	10133	LOCK NUT 3/8-16	4	
10	EM204550	MOTOR MOUNT	2	
11	EM203038	ADAPTER KIT	1	INCLUDES ITEMS W/*
12*	11090	STUD, 3/8 SHC	4	
13	EM927066	SQ KEY	1	
14	EM961045	SHSS 5/16-18 X 1/2"NYLOC	1	
15#	EM925013	LEVER PIN	3	
16#	EM925018	SHORT LINK PIN	3	
17#	EM925016	LONG LINK PIN	3	
18#	EM959012	LEVER	6	
19#	EM934054	ROLLER	3	
20#	5117	COTTER PIN	9	
21#	EM934053	CONNECTING LINK	6	
22	9503	SLOTTED HHCS 1/4-20 X 1/2"	1	
23#	EM934040	ADJUSTING LOCK	1	
24#	EM934039	CLUTCH HOUSING	1	
25#	EM918009	SPRING	3	
26#	EM934041	SPLINED CENTER W/FACING	1	
27#	EM934042	PRESSURE PLATE ASM	1	
28#	EM934043	RELEASE SLEEVE	1	
29#	EM934045	ADJUSTING RING	1	
30#	EM963289	BOLT	2	
31#	EM969009	LOCK NUT	2	
32#	EM934044	RELEASE BEARING ASM	1	
33	1475	WIRE SPLICE	1	
34	EM203149	EXHAUST DEFLECTOR	1	
35*	EM203040	SLEEVE	1	
36	EM801570	PILOT BUSHING	1	
37	EM934022	CLUTCH ASM	1	INCLUDES ITEMS/W#
38*	13377	OIL SEAL	4	
39*	13379	COPPER WASHER	4	

WM-120P/S — ELECTRIC MOTOR ASSY.

ELECTRIC MOTOR ASSY.



NOTES:

△ COMPLETE CLUTCH ASSEMBLY, ITEM 39, P/N 934022 INCLUDES ALL ITEMS WITHIN OUTLINE.

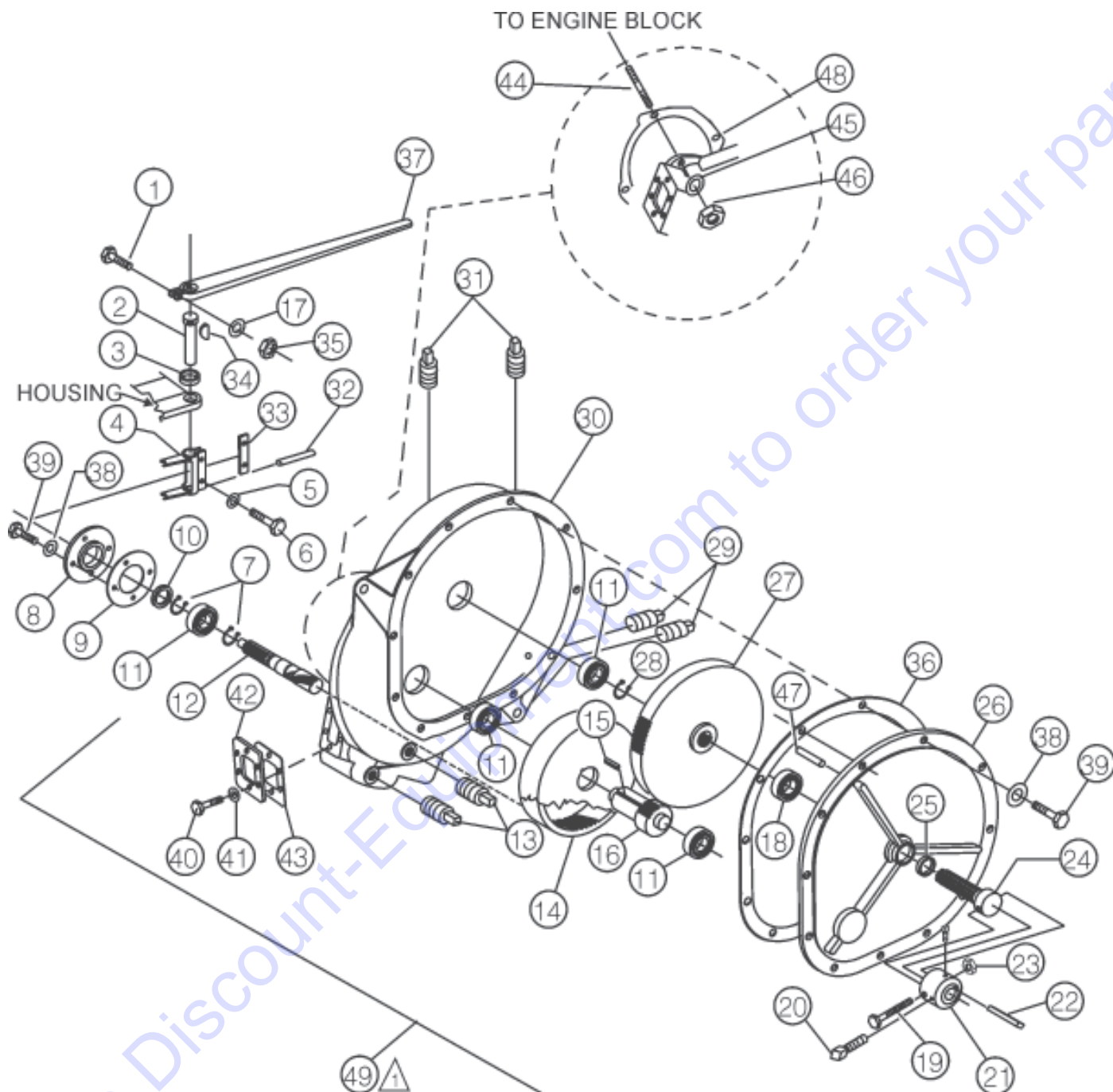
WM-120P/S — ELECTRIC MOTOR ASSY.

ELECTRIC MOTOR ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	EM939228	5 HP 1 PHASE ELECT MOTOR	1	
1	EM239229	5 HP 3 PHASE ELECT MOTOR	1	"
2	1023	HHCS 3/8-16 X 1.1/4"	8	
3	10136	FLAT WASHER 3/8"	16	
4	EM204549	MOTOR MOUNT	2	
5	10133	LOCK NUT 3/8-16	8	
6	EM010009	SQ KEY	1	
7	EM801570	BUSHING	1	
8	EM934042	PRESSURE PLATE ASM	1	
9#	EM934043	RELEASE SLEEVE	1	
10#	EM934045	ADJUSTING RING	1	
11#	EM963289	BOLT	2	
12#	EM969009	LOCK NUT	2	
13#	EM934044	RELEASE BEARING ASM	1	
14#	EM961045	SHSS 5/16-18 X 1/2" NYLOC	1	
15#	EM925013	LEVER PIN	3	
16#	EM925018	SHORT LINK PIN	3	
17#	EM925016	LONG LINK PIN	3	
18#	EM959012	LEVER	6	
19#	EM934054	ROLLER	3	
20#	5117	COTTER PIN	9	
21#	EM934053	CONNECTING LINK	6	
22	9503	SLOTTED HHCS 1/4-20 X 1/2"	1	
23#	EM934040	ADJUSTING LOCK	1	
24#	EM934039	CLUTCH HOUSING	1	
25#	EM918009	SPRING	3	
26#	EM934041	SPLINED CENTER W/FACING	1	
27	EM204526	MOUNT BRKT	1	
28	10019	LOCK NUT 10-32	3	
29	2203	FLAT WASHER #10	6	
30	EM201794	PIG TAIL	1	
31	0174	90 DEG ELBOW	1	
32	EM98187	MOTOR STARTER 1 PHASE	1	
32	EM98191	MOTOR STARTER 3 PHASE	1	
33	EM940198	HEATER 1 PHASE	1	
33	EM940209	HEATER 3 PHASE	1	
34	8133	RHMS 10-32 X 3/4"	3	
35	EM940184	REDUCER BUSHING	1	
36	EM012295	CONDUIT	1	
37	EM100235	ENGINE SHIM .030		
	EM100236	ENGINE SHIM .018		
	EM100237	ENGINE SHIM .010		
38	EM203007	ENGINE PAD .187		
	EM203016	ENGINE PAD .135		
	EM203017	ENGINE PAD .060		
39	EM934022	CLUTCH ASM	1	INCLUDES ITEMS/W#

WM-120P/S — TRANSMISSION ASSY.

TRANSMISSION ASSY.



NOTES:

- 1 COMPLETE TRANSMISSION ASSEMBLY, ITEM 49, P/N 600000 INCLUDES ALL ITEMS WITHIN BRACKET, EXCEPT ITEMS, 19, 20, 21, 22, 23, 37, AND 48.

WM-120P/S — TRANSMISSION ASSY.

TRANSMISSION ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS ¹
1#	2200	HHCS 3/8-24 X 2"	1	
2#	EM600029	SHIFTER SHAFT	1	
3#	EM914005	SEAL	1	
4#	EM600028	CLUTCH YOKE	1	
5#	0181B	LOCK WASHER 1/4"	2	
6#	0730	HHCS 1/4-20 X 1"	2	
7#	EM926029	SNAP RING	2	
8#	EM600023	BEARING RETAINER	1	
9#	EM600022	BEARING RETAINER GASKET	1	
10#	914209	SEAL	1	
11#	EM902091	BALL BEARING	4	
12#	EM600016	INPUT PINION SHAFT	1	
13#	EM911329	SQ HEAD MAG. PINE PLUG 3/8"	2	
14#	EM600020	INTERNAL GEAR	1	
15#	EM010062	SQ KEY 3/8 X 1.3/8"	1	
16#	EM600131	OUTPUT DRIVE PINION	1	
17#	10136	FLAT WASHER 3/8"	1	
18#	EM902161	BALL BEARING	1	
19	EM963157	HHCS 5/8-11 X 4.1/2" GD2	1	
20	EM961019	SQHSS3/8-16 X 1.1/4" CUP	2	
21	EM200255	PADDLE SHAFT COUPLER	1	
22	EM010022	SQ KEY 3/8 X 3/8 X 1.3/4'	1	
23	9503	LOCK NUT 5/8-11	1	
24#	600015	OUTPUT SHAFT	1	
25#	914207	OIL SEAL	1	
26#	600014	TRANSMISSION COVER	1	
27#	EM600133	OUTPUT SHAFT GEAR	1	
28#	EM926036	SNAP RING	1	
29#	EM911064	SQ HEAD PINE PLUG 1/2 NPT	2	
30#	EM600012	MAIN TRANSMISSION HOUSING	1	
31#	EM911356	BREATHER VENT PIPE PLUG 1/2"	2	
32#	1729	ROLL PIN	1	
33#	EM600024	LOCK PLATE	1	
34#	EM927048	WOODRUFF KEY #A	1	
35#	10133	LOCK NUT 3/8-16	1	
36#	EM600021	TRANSMISSION COVER GASKET	1	
37	EM600018	SHIFTER LEVER	1	
38#	0161C	LOCK WASHER 3/8"	17	
39#	0202	HHCS 5/8-16 X 1"	17	
40#	4196	HHCS 3/8-16 X 3/4"	6	
41#	1875	INTER. SHKP WASHER 3/8"	6	
42#	EM931233	SHIFTER COVER	1	
43#	EM600026	SHIFTER COVER GASKET	1	
44#	EM300999	STUD 7/16-14 X 2.1/16"	4	
45#	2955	LOCK WASHER 7/16"	4	
46#	EM968010	HEX NUT 7/16-14	4	
47#	EM925109	DOWEL PIN	3	
48	EM801965	GASKET	1	
49	EM600000	COMP.TRANS. ASM.	1	INCLUDES ITEMS W/#

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