Reinco

TM-Jr POWER MULCHER

SAFETY, OPERATION, PARTS & SERVICE

MANUAL

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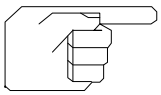
NOTICE

Every attempt has been made to make this manual complete, accurate and up-to-date. However, all information contained herein is subject to change due to updates and design modifications. All inquiries concerning this manual should be directed to **REINCO INC**.

CAUTION: The following information is **IMPORTANT** to the **HEALTH** and **SAFETY** of your employees. Please **READ**, take **ACTION** and **FILE** this document for future reference. Ask for additional copies if required.

Study this manual carefully before attempting to operate the machinery.

This safety alert symbol is used to call your attention to instructions concerning your personal safety. **Federal law requires you to explain the safety and operating instructions furnished with this machine to all employees before they are allowed to operated the machine.** These instructions must be repeated to the employees at the beginning of each season. Be sure to observe and follow these instructions for you and your employee's safety.



This symbol is used to draw attention to those operational and maintenance instructions we consider important to insure long trouble-free operation of this machine.

SN 1100 - 1399
REVISED 07/08/94
PN 32000900

REINCO MODEL TM-Jr
POWER MULCHER

FORWARD

A MESSAGE FROM REINCO

Getting the most out of your new **TM-Jr POWER MULCHER** should be within the reach of an inexperienced crew in a few hours. The purpose of this manual is to minimize start up difficulties and acquaint the new owner with recommended operating procedures and techniques. The following pages also include information on parts, service and accessories to help in making your new machine a versatile and profitable investment.

Your new **REINCO POWER MULCHER** represents the culmination of over thirty five years of expertise embodying field feedback, innovative design and manufacturing experience. Functional simplification and avoidance of mechanical complexities have been prime engineering objectives throughout this time. The benefits to be realized will be years if trouble free performance with minimum attention and maintenance.

Every operator and foreman should read this booklet and familiarize himself with the operational and mechanical aspects described. Some of the following commentary may appear to be obvious, but at the expense of being repetitive or assuming certain basics, this will serve as a guide for both owners and operators not acquainted with mulching procedures as well as providing instructions on the detailed operation of your new unit.

This manual is provided as a reference guide for units of similar construction, manufactured under prior designs. Some parts, options, engines, etc., may not be, or may not have been, available at the time of production of your machine. Contact **REINCO** for cost and availability of any requested upgrades.

All references made to engines, are intended to be general in nature. Please consult the appropriate engine manufacturer's literature for applicable detailed information.

We at **REINCO** welcome this opportunity to be of service to you and wish to express our appreciation for the confidence extended by your selection of **REINCO** mulching and seeding equipment.

WHAT IS MULCHING

From a horticultural point of view, mulch can cover a wide variety of organic materials. Pine bark, wood chips, pine straw, peat, and hay or straw are typical. At **REINCO**, our concern has been with the processing of the last two products in a useful productive form.

Reinco Power Mulchers process rectangular bales. After removing the twine or wire, the expanded slabs or flakes are thrashed into uniform stalk lengths, adjustable between 4" and 10" in length. These are then blown in place over prepared ground surfaces forming an intertwined mat. The mulch serves to control water evaporation and soil erosion while providing a beneficial micro climate promoting more rapid seed germination.

Mulch is commonly applied at the rate of 1-1/2 to 2 tons to the acre (about 3" to 4" of fluffed height). Higher rates, 6 tons or more, may sometimes be specified. There is a limit however, because more is not necessarily better. Too much will snuff out required air and inhibit growth.

To provide a sense of productivity, the **TM-Jr** carries a nominal rating of 2 tons per hour. In more practical terms this machine will process good quality dry mulch weighing about 60 lbs. per bale at the rate of about 1 bale a minute. This equates to somewhat over 60 bales per hour.

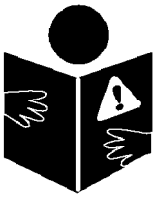
It is safe to predict that capacity limits are based on getting material to the machine and not how much the machine can blow out.

REINCO MODEL TM-Jr

POWER MULCHER

SAFETY

POWER MULCHER SAFETY OVERVIEW



Personnel responsible for your Power Mulcher training program, maintenance, and operations must read and understand this safety manual and operator's manual. No one should set up, operate or maintain a Power Mulcher until they understand it, its operation and know how to do their job safely.

RECOGNIZE SAFETY INFORMATION

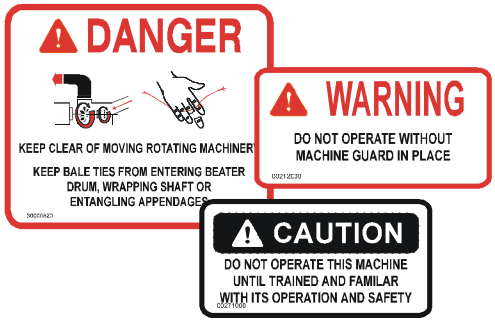
This is the safety alert symbol. When you see it in your operations manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

UNDERSTAND SAFETY WORDS

A signal word - **DANGER**, **WARNING**, or **CAUTION** - is used to identify a potential for serious injury. **DANGER** identifies the most serious hazards.

DANGER or **WARNING** safety signs are located near specific hazards. General precautions are listed on **CAUTION** safety signs. **CAUTION** also calls attention to safety messages in this manual and your operations manual.



FOLLOW SAFETY INSTRUCTIONS

Carefully read this safety manual and all safety messages in your operations manual on your Power Mulcher. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include current safety signs and safety guards. Replacement safety signs and guards are available from your Reinco dealer or directly from Reinco.

Learn how to operate the machine and how to use the controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

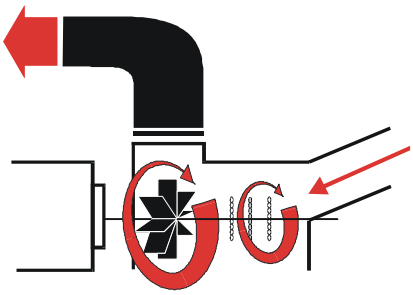
If you do not understand any part of this manual and need assistance, contact Reinco directly.

800-526-7687

CONCENTRATE ON YOUR JOB

Daydreaming, worrying about other problems or other improper operation of a machine could cripple you for life. Operating a Power Mulcher requires your complete attention. Talking, joking or participating in or watching horseplay could result in physical injury to you . . . and that's not something to joke about. So watch what you are doing and concentrate on your job.

KEEP CLEAR OF THE WORK AREA



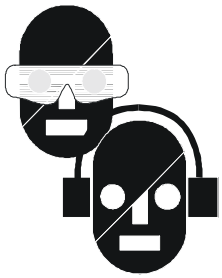
The purpose of a Power Mulcher is to cut and thrash bales of hay and discharge the processed mulch away from the machine. The Power Mulcher utilizes powerful engines which turn a main drive shaft , beater chains and blower wheel at high speed to process the hay. It is obvious that this same capacity will sever arms, hands, fingers or any other part of the body that is in the work area when the machine is activated.

Additionally, the discharge from the blower is capable of blowing mulch in excess of 100 feet on some models. The machine's discharge is powerful enough to dislodge pebbles, stones or other debris which may cause eye injury.

The person responsible for activating the machine is the boom operator. It is his responsibility to see not only that his own body is clear of the work area and all moving parts, but that his co-workers are clear also and are entirely visible in a safe location before activating the machine.

During set-up, maintenance or other work on the machine which requires manipulation within the beater drum, fan housing, boom, feed tray, engine or other work area, the key should be removed from the machine and battery disconnected.

WEAR PROTECTIVE CLOTHING



Protect your eyes from blowing chaff as well as rocks and other foreign debris found in mulch bales. Use approved impact resistant eye wear.

As the conditions dictate, the use of respirators to protect you from inhaling nuisance dust is recommended.

Construction equipment is noisy. Prolonged exposure to loud noise can cause impairment or loss of hearing. Use approved ear protection to control this hazard.

Reflective gear and hard hats may also be necessary depending on your job site.

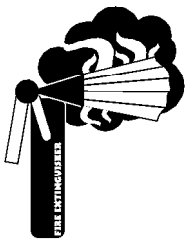
PRACTICE WORK AREA SAFETY RULES

The location of your job site will demand that additional safety practices be implemented. Always follow the applicable OSHA regulations.

While working on road sides and interstate highways, insure that appropriate strobes, flashers and other warning devices are installed on all vehicles as required by law. All workers should be wearing high visibility reflective vests. Anti-crash vehicles should be employed when appropriate. The use of barriers and flagmen is suggested. Be aware of the traffic flow and use caution to avoid discharging towards vehicles.

Since Power Mulchers are used at a variety of locations (strip mines, coal storage areas, land fills, refineries, power plants, and protected wilderness areas) it is imperative to contact the appropriate safety official or regulating agency to obtain information regarding any special safety considerations on specific job sites.

FIRE IS ALWAYS A POSSIBILITY



The potential for fire always exists. The combination of fuels, heat from engines,and clean dry straw increase the risk. Have a fire extinguisher near the work area. Learn to look for it before you begin working.

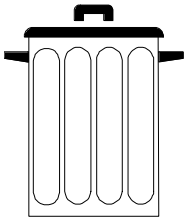
Always keep the machine clean of chaff and debris.

NEATNESS IS IMPORTANT

Keep the floor of your work area clear of bales or flakes of mulch, twine, scrap and trash that could cause you to stumble. Falling or slipping can result in painful or perhaps even fatal injuries.

Put all fuel, tools and other equipment away when you are not using them. Even a screwdriver can be deadly if left on an enclosure of the machine.

CLEAN AS YOU GO

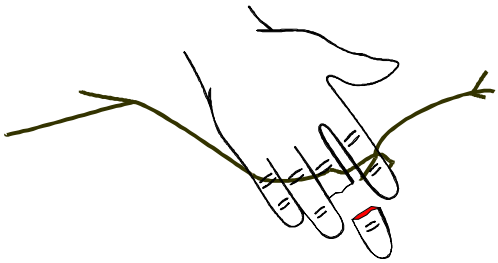


Twine, when removed, should be disposed of immediately in a container away from the Power Mulcher. That loose piece of twine around the machine could cause you to fall or loose a hand or finger.

PROPER BALE HANDLING IS IMPORTANT

Bale twine or wire is dangerous. When cutting and removing twine from a mulch bale the handler must make sure that the twine is not pulled into the machine. The twine can wrap around a shaft and pull an arm or hand into the machine. It is capable of cutting through fingers.

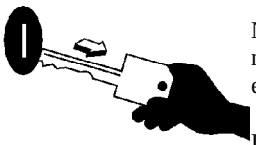
It takes only a fraction of a second to lose fingers. Pay attention to your fingers, the twine, and the moving equipment when handling twine.



VIBRATION IS A WARNING SIGN

A rotation unbalance of any sort will become obvious in the form of vibration. Vibration is an important warning sign of impending mechanical failure. Instruct all users of your equipment to report unusual vibration at the onset.

PRACTICE SAFE MAINTENANCE



Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service or adjust machine while it is running. Keep hands, feet and clothing away from moving or power driven parts. Disengage all power and operational controls, and relieve pressure. Stop engine and remove key. Allow machine to cool.

Disconnect the battery before machine adjustments or welding on machine.

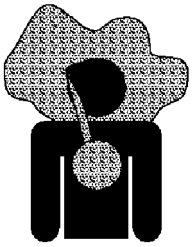
Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any build-up of grease, oil or debris.

PROPER ENGINE SERVICING IS IMPORTANT

Do not perform service on an engine if you are not qualified.

Use care when refueling all engines,whether gas or diesel units. Fuels and their vapors are extremely flammable and can explode when ignited. Do not fill the fuel tank when engine is hot or running , since spilled fuel could ignite if it comes in contact with hot parts or sparks from the ignition. Do not start the engine near spilled fuel; wipe up spills immediately. Never use gasoline as a cleaning agent.

Store fuels in approved containers only. After refueling remove containers from work area.

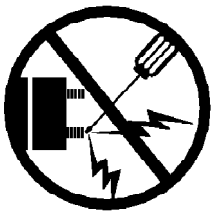


Do not add oil when engine is hot or running as oil could vaporize and ignite.

Do not add coolant to water cooled units when engine is hot due to the possibility of steam burns. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap first to relieve pressure before removing completely.

Engines are a burn hazard. The crank case, cylinder head, exhaust system, radiator, and other components can get extremely hot from operation.

The electrical systems of engines can be a source of high voltage. Never touch electrical wires or components when engine is running. Never attempt to start the engine by shorting across the starter solenoid.



Engine exhaust gasses contain poisonous carbon monoxide. Never run engine in an enclosed area. Avoid inhaling exhaust fumes.

Avoid accidental starts which could cause injury to yourself or fellow workers. Remove the ignition key. Disconnect and ground the spark plug wire on one and two cylinder gas units. On electric start units, disconnect the battery cables. Always remove the ground (-) cable first.

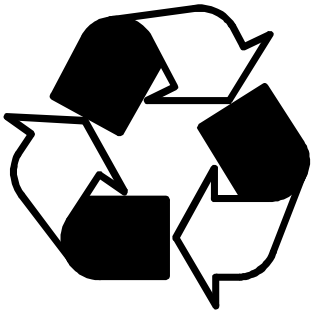
Refer to the engine manufacturer's operation and safety manuals for more detailed information.

ENGINE SPEED IS IMPORTANT

Never tamper with the governor components settings to increase the maximum speed. The components used to build the Power Mulcher are designed to operate at a specific maximum speed. Severe personal injury and damage to the Power Mulcher can result at speeds set above the maximum.

A rotation unbalance of any sort will become obvious in the form of vibration. Vibration is an important warning sign of impending mechanical failure. Notify your supervisor of any unusual vibrations or noises at the onset.

DISPOSE OF WASTE PROPERLY



Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with Reinco equipment include such items as oilfuel, coolant, filterbatteries, emulsified asphalt, tackifierand fertilizers .

Use leak proof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them. Do not pour waste onto the ground, down a drain or into any water source.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your state's Environmental Protection Agency.

LOOK THINGS OVER CAREFULLY

Before operating your Power Mulcher, look to see if your machine is in the proper condition. Are the beater chains or flail knives all in place? Are they worn? Is the blower wheel in operating condition? Is the work space clean? Is the fuel properly stored? Is all the bale twine cleaned up? Are the machines guards and covers all in place? Are all nuts, bolts and screws tight? Do you know where the fire extinguisher is? Do all workers have protective safety gear? Is everything in proper operating condition? If not, report the unsafe condition to your supervisor and be sure the problem is corrected before beginning operation.

KNOW YOUR MACHINE

Power Mulchers all have one characteristic in common. Once the beater shaft starts spinning, simply turning off the machine will not stop the main shaft and blower wheel from spinning. The moving machinery can cause serious injury and even death. Be aware that a shaft which rotates at more than 2000 revolutions per minute is extremely dangerous.

1 • Before mulching, be sure to read this entire manual.

2 • Do not operate unit if unfamiliar with operational and safety procedures on this or any unit.

3 • The force from the blower can kick up dust and blow over small items that are not secure.

4 • Never discharge the unit towards people. Bodily injury may occur.

5 • Never force any material into the machine.

6 • Never attempt to clear the beater drum of debris or make adjustments while the engine is running.

7 • Be sure to keep all body parts and clothing away from moving parts while engine is running.

8 • Do not attempt to discharge rocks, nails, or other debris which may damage blower or cause premature wear.

9 • Do not operate machine without coupling or shaft guards installed.

10 • Twine or wire should be cut and removed to prevent loose trailing ends from being pulled into the beater chamber.

11 • Do not allow fingers to become entangled in the bale twine.

12 • Do not wear loose clothing which may become entangled with the machinery.

13 • Do not add oil, water or fuel while engine is running or hot.

14 • Do not perform maintenance while unit is running or battery is connected.

15 • Do not under any condition operate the machine when vibrating.

16 • Working space must be allowed not only for the boom operator, but also for access to the stacked mulch bales.

17 • Daily, inspect the flailing chains, blower wheel blades and drive coupling assembly for signs of wear or misalignment.

18 • Always make sure chain stations are replaced in matched pairs.

19 • The flailing chains are made of case hardened steel. If a link breaks, an unbalance or vibration will occur. Do not under any condition operate the machine when vibrating. Always make sure chain stations are replaced in matched pairs.

20 • Check the leading edges of the blower wheel paddles. Dry mulch causes very little wear, but dirt laden, wet or moldy material will abrade the leading edges of the paddles. When they begin to feather and bend back, replace the wheel. Rocks and other foreign matter found in some mulch bales may also cause bending of the wheel blades which may produce a noticeable vibration.

21 • The drive coupling connects the engine to the blower shaft. Coupling misalignment will cause vibration. Realign immediately should this occur.

22 • Secure the discharge boom latch before transporting the machine.

23 • **It is imperative that common sense and good judgment be employed when operating this machine.**

REINCO MODEL TM-Jr

POWER MULCHER

OPERATION

UNPACKING

If it is received in the original factory packaging, your new Power Mulcher Model TM-Jr will require some light assembly.

1 • Remove the banding straps by cutting with a pair of snips. Open the top flaps and remove the discharge boom assembly.

2 • Remove the protective corrugated insert to uncover the machine.

3 • Locate the lifting loop and lift the unit from the box with a hoist and sling. If lifting is not practical, cut the box away from the machine close to the base, then discard the packaging.

4 • Place the machine in an open area suitable for assembly.

ASSEMBLY

WARNING! INSTALL BEARING GUARD BEFORE OPERATING

GUARD INSTALLATION INSTRUCTIONS

1 • Remove mulcher from shipping carton.

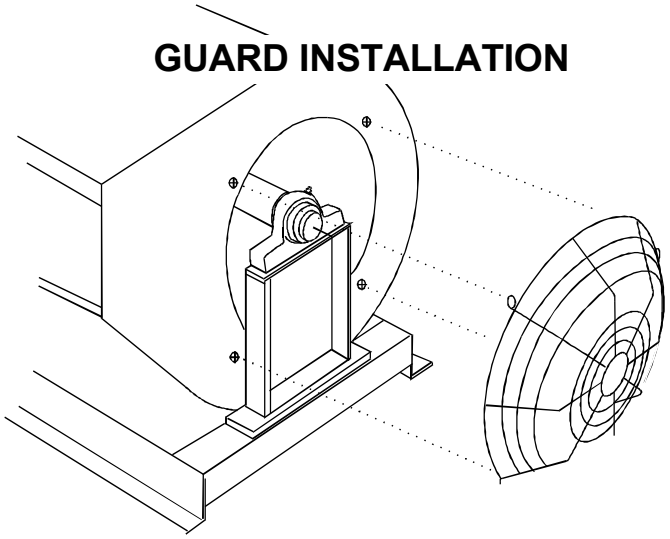
2 • Locate the wire bearing guard.

3 • Remove and retain the two (2) hex head cap screws and nuts located on the bearing side of the beater drum. (The side opposite the engine).

4 • Orient the guard so that the "looped ears" face up, then slip the bottom stringer hooks into the two (2) holes on the beater drum near the base frame.

5 • Push the guard toward the beater drum and align the two (2) "looped ears" with the upper mounting holes.

6 • Secure the guard with the two (2) ¼-20 x 3/4" hex head cap screws and nuts previously removed. Position the fasteners so that the nuts are on the exterior of the machine.



BOOM ASSEMBLY INSTRUCTIONS

1 • To install the discharge boom assembly, simply align the elbow with the blower discharge outlet and bearing assembly. Install the (6) bolts and washers from beneath the elbow bearing and tighten sequentially [1,4,3,5,2,6] until snug.

2 • There is no requirement for lubrication or periodic cleaning with this style of bearing assembly. The integrally lubricated cast nylon bearing plate does not require lubrication and is not directly exposed to chaff wear. Once installed, rotate the boom and lock in place with the transport lock pin.

LOCATING THE LOAD TRAY

1 • Remove the load tray from the side of machine by lifting it off the support pins and position it in the mouth of the beater chamber so that it may be supported at a slight angle. To do this, place the reinforced end of the tray over the support bar and under the support lip (both run crossways in beater chamber opening).

2 • Swing open the load tray extension tray to it's open position.

Inspect machine for obvious obstructions in beater chamber, blower housing, and the rest of the drive mechanism. Check all bolts for tightness. Now proceed to ***"PRE-OPERATION INSPECTION".***

PRE-OPERATION INSPECTION

Each machine is packaged for near immediate operation and is tested at the factory prior to shipping. Before starting, however, retrace the factory inspection procedures as follows:

1 • Crank case oil level

2 • Air cleaner assembly

3 • Fuel [check engine manual for proper fuel grade]

4 • Throttle and Choke

5 • Remove boom lock and actuate boom

6 • Remove feed tray, and install

7 • Remove any debris from beater drum

8 • Inspect flailing chain stations

9 • Check all screws for tightness

MOUNTING

Model TM-Jr can be secured to any flatbed truck or trailer and is compact enough to be carried in a standard pickup truck. The ideal working position is in the back of the bed and on the shoulder side of the road with the load tray extending toward the mulch supply.

IMPORTANT ! WORKING SPACE MUST BE ALLOWED NOT ONLY FOR THE BOOM OPERATOR, BUT ALSO FOR ACCESS TO THE STACKED MULCH BALES. FOR A LARGE TRAILER, TWO MEN OR MORE WILL BE REQUIRED FOR TOP PRODUCTIVITY.

A lifting loop is provided so that a front end loader, or a fork lift with lifting chain or sling, can be used to transport and position the machine. Once in place, secure with binders or mounting cleats and blocks. The base frame has two bolt holes through which fasteners can be positioned to secure the machine.

IMPORTANT ! INSURE THAT THE MACHINE BASE IS PLACED ON A LEVEL SURFACE BEFORE FASTENING. DO NOT DISTORT FRAME.

ENGINE BREAK IN

The BREAK-IN period for the specific engine is noted in the vendor operation manual supplied with this manual. Proper engine break in and maintenance scheduling will result as increased engine life.

IMPORTANT ! THE RECOMMENDED FIRST OIL CHANGE FOR THE KOHLER M14 IS AT 5 HOURS OPERATION.

STARTUP

Familiarize yourself with this entire manual. Also, read the engine manual.

The engine is equipped with an electronic ignition system. Other than servicing the spark plug, adjustments, timing or ignition maintenance is unnecessary. This non-contact ignition system should provide years of trouble free service if the engine is properly maintained. Before starting the unit, be sure it is mounted as described previously. Be sure to make your test run in an open area.

CAUTION ! THE FORCE FROM THE BLOWER CAN KICK UP DUST AND BLOW OVER SMALL ITEMS THAT ARE NOT SECURE.

After reading the engine manual, you may start the engine. Open the fuel tank supply valve. Locate and move choke control to the closed position (cold engine only). Move throttle 1/4 of its travel . Turn the ignition to start.

After starting, slowly reposition the choke to the fully open position. If vibration or roughness exist, stop engine and check for the cause. Vibration can be caused by misaligned drive mechanism and/or coupling. If this problem occurs, refer to maintenance section of this manual. If the machine runs smoothly, proceed to operation section of this manual.

OPERATING CAUTIONS

BE SURE ALL OPERATORS READ AND UNDERSTAND THE FOLLOWING OPERATIONAL PRECAUTIONS:

1 • Twine or wire should be cut and removed to prevent loose trailing ends from being pulled into the beater chamber.

2 • Never attempt to clear the beater drum of debris or make adjustments while the engine is running.

3 • Check the thrashing chains at the end of every days operation. The chains are made of case hardened steel. If a link breaks, an unbalanced vibration will occur. Do not, under any condition, operate the machine when vibrating. Always make sure chain stations are in matched pairs.

4 • Routinely inspect the drive coupling connecting the engine drive shaft to the blower shaft. Wear on the center member or coupling looseness will result from a vibration situation caused by an imbalance or misalignment due to overloading, obstruction or low quality mulch. Do not operate the unit until the coupling has been aligned or repaired.

5 • The engine has been set to a maximum operating speed of 3200 RPM. Do not exceed or set speed higher, as wear from excessive vibration may occur.

ENGINE OPERATING CAUTIONS

1 • Turn the fuel tank supply valve to the OFF position while transporting the unit. Failure to shut valve could cause damage to the engine.

2 • The engine has been set to a maximum operating speed of 3200 RPM. Do not exceed or set speed higher, as wear from excessive vibration may occur.

3 • Clean chaff from engine daily. Partial engine cowl removal may be required on a periodic basis.

4 • The engine is intended to run in a level position. Intermittently, the engine may run at a maximum of 10° angle for not more than 10 minutes.

5 • The available horsepower supplied by the engine drops 3% per one thousand feet above sea level. When operating unit at an altitude of 5000 feet or greater, a high altitude carburetor jet must be installed. Contact REINCO for details.

MULCHING

Your new Power Mulcher Model TM-Jr will accept flakes or slabs of mulch for thrashing and blowing. The opening has been limited to 8" in height to purposely prevent overloading. A bale placed on the load tray must first be untied and the wire or twine removed to prevent from being engorged by the machine. An ideal flake thickness of dry mulch material is about 4 to 5 inches.

The TM-Jr as equipped with standard flailing chain stations can blow mulch strands uniformly at distances 30 to 35 feet in calm air. This may vary slightly depending on bale moisture content and the degree of decomposition.

This unit is rated at 2 tons per hour. Dry bales, with a count of 40 to the ton would require 80 bales for this coverage equating to blowing four bales every three minutes. Conversely, oversized or wet bales weighing as much as 100 pounds may require two minutes or more for processing.

In practical terms, the machine can distribute mulch at higher outputs depending on the grade (quality), moisture content, and age. "Clean" mulch will be thrashed and blown faster than will old moldy mulch with many foreign objects. Similarly, hay characteristically will not "mulch" as quickly as straw.

Every load of mulch varies one way or another and requires some human or mechanical adjustment. The machine is not programmed to do this for you.

THEREFORE, IT IS IMPERATIVE THAT COMMON SENSE AND GOOD JUDGMENT BE EMPLOYED WHEN OPERATING THIS MACHINE.

CAUTION ! BEFORE MULCHING, BE SURE TO READ THIS ENTIRE MANUAL.

While job size usually dictates labor requirements, a three member crew is common. This would include a vehicle driver, a feed man and a placement operator. If extension hose is used, the operator would direct mulch placement at the far end of the hose while the feeder would continuously provide a mulch supply to the TM-Jr thus reducing the crew size to two.

In the case of a three man crew, the operator normally stands next to the feed tray and flakes the supplied mulch bales off into segments which are drawn into the beater chamber with only a slight nudge.

CAUTION ! NEVER FORCE ANY MATERIAL INTO THE MACHINE.

If mulch does not flow into the beater chamber by the air suction and a slight nudge, or if it plugs completely, stop the machine before inspecting the beater chamber.

CAUTION ! BE SURE TO KEEP ALL BODY PARTS AND CLOTHING AWAY FROM MOVING PARTS WHILE ENGINE IS RUNNING.

After placing each bale on the feed chute, either the feeder or operator must cut and remove the baling twine or wire. Since it is best to make the cut on the top of the bale closest to the beater chamber opening, it will probably be easiest for the operator to do the cutting. However, if the feeder loads each bale from the side opposite the operator it could be just as easy for the feeder to do the cutting and removal. In any case should twine or wire get into the machine, it should be stopped and removed. Baling wire and twine when wrapped with the mulch will reduce output and may damage the shaft bearings.

While flaking and feeding with one hand, the operator should direct the discharge boom with the other. Naturally it is to the crews advantage to mulch with the wind to obtain the best possible range and minimize operator fatigue and discomfort.

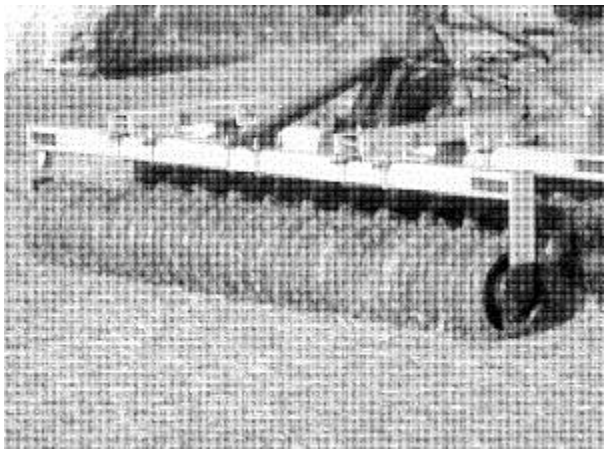
CAUTION ! NEVER DISCHARGE THE UNIT TOWARDS PEOPLE. BODILY INJURY MAY OCCUR.

Blowing range and output is partially controlled by the throttle. A low engine speed will blow only a portion of the maximum range while top engine speed will provide the greatest range. As engine speed decreases, the loading rate must be decreased accordingly. This adjustment in output should be coordinated with position, and travel speed to achieve the desired application rate. The crew should quickly adapt to a comfortable routine which will be clearly recognizable in the increased productivity.

ANCHORING MULCH

Mulch can be either "glued down" with tackifier, held down with netting, or "cut" into the soil with an implement.

Originally, emulsified asphalt was predominantly used for holding mulch in place. Although contractors still utilize this oil based tackifier, is use is becoming less common due to high cost, environmental concerns, availability problems and the associated cleanup liabilities in congested areas. The emulsion spray system option is utilized to spray the tackifier into the discharged mulch as it is placed.
Alternative tackifiers are available in either liquid or powder form, yet both are always applied in a liquid state through a HYDROGRASSER or a similiar mixing/spraying apparatus.



A straw incorporator implement is similar to a disc harrow yet the coulter blades are not angled. By rolling the "crimper" over blown hay or straw mulch, the notched blades "punch" the mulch strands into the soil thus holding it in place. The "packer" then "locks" the crimps permanently anchoring the mulch. Contact your REINCO representative for more information on tackifiers and "crimping" implements.

OPTIONAL EXTENSION HOSE

Up to 100 feet of 6" flexible extension hose can be used to apply mulch in hard to reach areas.

To install hose:

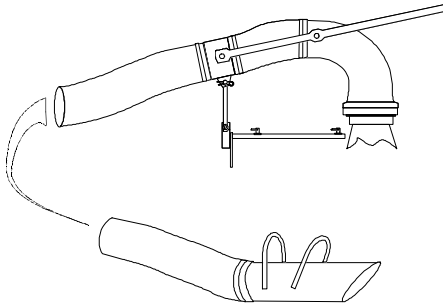
1 • Place the supplied stainless band clamp over the hose end and slip the hose end on to the boom discharge spout as far as it will go.

2 • Tighten band clamp.

3 • Install the applicator spout end similarly.

4 • If additional extension hoses are being used, they may be inserted before the applicator spout by means of a coupling tube, included with each extension hose kit. The hose ends are to be clamped over the coupler, as indicated above.

5 • Finally, be sure to lock the discharge boom assembly in place to prevent movement. Failure to lock the boom in place will cause premature hose wear.



Mulching can now be started. Adjust throttle to desired speed and begin feeding untied mulch bales while a second person directs discharge at the hose end.

OPTIONAL VACUUM ADAPTER

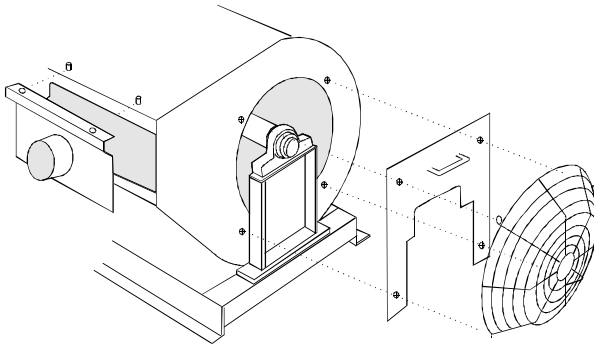
Another option adding to the versatility of the TM-Jr Power Mulcher is the vacuum adapter kit. Spilled mulch, leaves and decorative wood chips may be picked up and placed with this easily installed assembly.

The two piece kit includes a beater drum, "inlet hose adapter" and an air "suction cover".

1 • Install the inlet hose adapter by first removing the feed tray. Place the lower section of the adapter over the tray support rail and align the upper section so that the piece fits over the tray transport pins. Replace the transport cotter pins to secure the adapter.

2 • Check to insure that the adapter is "locked" in place. If the adapter moves, it is not correctly installed. Repeat the installation until a rigid fit is achieved.

3 • The suction cover is to be installed on the exterior of the unit at the pillow block bearing end. Remove the bearing shaft guard. Hold the cover over the beater shaft with the "U" shaped notch facing down. Slide the piece towards the beater shaft and wedge it between the beater drum wall and the bearing until firmly secured. This cover now forces all make-up air to be drawn through the inlet hose adapter. Replace the bearing guard using the two longer bolts supplied with the vacuum kit.



4 • The final installation step involves installing suction and discharge hoses consistent with the desired application. Typically, the basic hose "starter kit" would be connected to the inlet adapter by slipping the hose over the adapter tube and clamping the hose as indicated in the forgoing section. The other end of the hose would utilize the discharge spout end as a suction head. Other extension hoses may be added on the suction and discharge loops as the individual job dictates, however, the length of the hoses used will be constrained by the type of material(s)being vacuumed.

The feed man is now utilized to pick up the desired material by working the pick up end of the hose. Compacted or wetted material should be kicked up to assist in vacuuming. The placement operator simply directs the discharge boom assembly or the discharge extension hose if utilized.

CAUTION ! DO NOT ATTEMPT TO PICK UP OR DISCHARGE ROCKS, NAILS, OR OTHER DEBRIS WHICH MAY DAMAGE BLOWER OR CAUSE PREMATURE WEAR.

When done with the job, turn the machine off and remove the adapter and suction cover. Clean out any residual material remaining in the beater drum, then replace the feed tray.

REINCO MODEL TM-Jr

POWER MULCHER

MAINTENANCE AND SERVICE

SERVICE

Due to the simplified construction of REINCO HYDROGRASSERS AND POWER MULCHERS, most routine maintenance can be performed without the services of a skilled mechanic. In the event the unit requires expertise beyond that which is covered in this manual, contact your authorized REINCO servicing dealer.

If your REINCO dealer is not an authorized engine dealer, and the problem is engine related, contact an authorized engine service center. Call REINCO or your dealer for the name of your nearest engine service location.

The REINCO limited warranty which follows does not cover the engine. The engine manufacturer provides their own limited warranty found in the engine section of this manual.

ABOUT WARRANTY

The equipment warranty statement is provided as protection to our valued customers, when or if the situation occurs, that a part or parts fail prematurely during normal use and service. The warranty period as provided allows the purchaser to make claim for repair or replacement of the parts deemed defective within that period. The procedure that follows will provide that claims made, may be expedited promptly and that settlement will be made fairly and amicably.

WARRANTY PROCEDURE AND FILING

1 • NOTIFICATION - Promptly notify your dealer or REINCO of defect or failure and confirm in writing.

2 • AUTHORIZATION - Upon receipt of authorization from REINCO, initiate replacement or repair under the terms and conditions of the warranty.

3 • RETURN GOODS - Should part(s) be requested returned for inspection, obtain authorization for return (RGA). Return part(s) to REINCO Inc., freight prepaid. A copy of the return authorization should accompany the shipment.

4 • SUBMIT - Claims submitted for warranty consideration will require copies of notification, replacement part(s), invoice(s), and time record (Work Order). Copies of any additional correspondence with regard to the particular claim should be submitted as well.

REINCO's obligation under the terms of the warranty shall be limited to replacement or credit for the part(s). On request parts must be returned for inspection. Related labor must be considered fair and reasonable regarding work performed. A work order time record will be required to substantiate and validate labor reimbursement requests.

Claims submitted which upon review are determined to be the responsibility of third parties will be returned with instruction for forwarding to those parties.

Claims submitted for warranty consideration must be forwarded to REINCO for review within 30 days of the date of claim or the claim will be considered invalid and void.

Settlement of any claim will require that any prior claims or adjustments are settled
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WARRANTY

The following warranty statement is provided to illustrate Reinco's typical Warranty. To the extent that there may be inconsistencies between this statement and that provided by the order Terms and Conditions, the order Terms and Conditions shall apply.

REINCO INC. PROVIDES A LIMITED ONE YEAR WARRANTY ON THE MACHINERY OF ITS OWN MANUFACTURE. REINCO INC. WARRANTS TO ANY BUYER THAT THE MACHINERY SHALL BE FREE OF DEFECTS IN MATERIAL OR WORKMANSHIP DURING NORMAL USE AND SERVICE FOR A PERIOD OF ONE YEAR FROM THE DATE OF SHIPMENT TO THE CONSUMER. THIS WARRANTY IS NOT EXTENDED FOR MACHINES PLACED INTO RENTAL SERVICE.

UNDER THIS LIMITED WARRANTY, REINCO INC. SHALL WITHIN ONE WEEK FROM THE DATE OF NOTIFICATION, (1) INITIATE REPLACEMENT OR ACTION FOR REPAIR OF THE PART(S) PROVEN DEFECTIVE IN MATERIAL OR WORKMANSHIP OR, (2) DIRECT THE SERVICING DEALER TO INVESTIGATE, REPORT, AND THEN AUTHORIZE AND PERFORM REPAIR OR, (3) ON DIRECT FACTORY SHIPMENT, INSTRUCT THE USER, UPON VERIFICATION OF FAILURE, TO PERFORM HIS OWN REPAIR WITH PRIOR AGREED UPON BACK CHARGES TO REINCO INC. THE CHOICE OF ALTERNATIVES SHALL REMAIN THE SOLE DECISION OF REINCO INC.

THIS WRITTEN WARRANTY IS THE ONLY WARRANTY MADE BY REINCO INC. IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IF ANY, ARE LIMITED TO THE SAME TERM AS THIS WRITTEN WARRANTY. CERTAIN STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY. HOWEVER, SOLELY WITH RESPECT TO THE BUYER, THE FOREGOING WARRANTY IS IN LIEU OF ANY AND ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, AND NO OTHER WARRANTY IS MADE OR AUTHORIZED TO BE MADE.

THE USER OR DEALER MUST PROMPTLY, WITHIN THE LIMITED WARRANTY PERIOD, NOTIFY REINCO INC., AND CONFIRM IN WRITING, THE DEFECTS, ALLOWING THE COMPANY TO ANALYZE THE FAILURE AND DETERMINE ITS OBLIGATION UNDER THE WARRANTY. COSTS INCURRED BY THE USER OR DEALER ARE TO BE ABSORBED, UNTIL SETTLEMENT UNDER TERMS OF THIS WARRANTY. THE COMPANY RESERVES THE OPTION AND THE RIGHT TO HAVE ALL DEFECTIVE COMPONENTS RETURNED, TRANSPORTATION PREPAID, FOR INSPECTION.

THIS LIMITED WARRANTY DOES NOT COVER UNSATISFACTORY PERFORMANCE OR FAILURE DUE TO MISUSE OR ABUSE OF THE PRODUCT, NOR WILL REINCO INC. BE RESPONSIBLE FOR UNSATISFACTORY PERFORMANCE OR FAILURE DUE TO IMPROPER ADJUSTMENT OR REPAIR OF THE PRODUCT. THE SPECIFICATIONS ARE DESCRIPTIVE AND ARE NOT WARRANTIES.

THIS LIMITED WARRANTY DOES NOT COVER EQUIPMENT AND ACCESSORIES MANUFACTURED BY THIRD PARTIES.

REINCO INC. SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, SPECIAL, CONTINGENT, INCIDENTAL OR ANY OTHER DAMAGES WHATSOEVER IN CONNECTION WITH REPLACEMENT, REPAIR OR REFUND AS SET FORTH ABOVE. CERTAIN STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS IN ACCORDANCE WITH YOUR STATE LAW.

MAINTENANCE OVERVIEW

The life of your equipment investment relates directly to the care you give it. By following the recommendations below, your new Power Mulcher should last many years.

GENERAL: Keep your machine clean. Inspect beater chains, drive coupling, engine, oil and air cleaner before and after each use. Remove all dirt and chaff from the engine with a brush. Pay particular attention to the engine air intake at the flywheel shroud cover.

BEARINGS: The most common error committed by the casual operator is over lubrication of bearings. A shot or two of grease (Fiske Lubri-plate 930-AA or equivalent) every 100 hours is adequate. The drive plate shaft bearing is a sealed unit and, therefore, does not require periodic lubrication. Periodically check locking collar set screws for tightness.

BEATER CHAINS: A pair of formed steel clamps secure the chains to the shaft by means of a pair of 3/8" bolts. The chains are case hardened and mounted in three pairs of four links each.

CAUTION! Inspect the chain stations regularly for wear and replace only with suitable case hardened replacement links. Regular grade chain will not last and could cause serious injury or even death.

If chain stations are removed, be certain that all stations have the same number of links on both sides of each bracket otherwise, significant vibration can occur and cause damage to the bearings and shaft.

BLOWER WHEEL: The blower fan is keyed to the driven shaft with two square head set screws. Inspect these screws for tightness periodically and after the first twenty hours of use. If the fan becomes loose, reposition if necessary, then re-tighten screws. Screws can be accessed through blower outlet after discharge chute has been removed.

BOOM SWIVEL: The swivel assembly is designed to be completely maintenance free, with no requirements for disassembly or lubrication. Should the bearing ring wear making the boom assembly difficult to turn, the complete ring may be replaced.

DRIVE COUPLING: The drive coupling transmits power to the blower and beater shaft. Excessive misalignment of the shafts (axial or angular) will produce vibration. If so, realign coupling as necessary. Check the set screws and connecting bolts every 100 operating hours for loosening or other abnormality.

If the coupling becomes misaligned, contact your servicing dealer. Otherwise, follow this procedure: Determine the direction and degree of misalignment by measuring with a caliper or divider around the periphery of the drive coupling flanges. If the gap is measured on the top of the driven coupling flange, this indicates that the shaft[s] have shifted downwards. If a gap is measured in the side of the driven flange this indicates that either the blower housing assembly has shifted to one side or the driven shaft has shifted at the end opposite the engine.

If misalignment is detected, determine whether to adjust the housing blower shaft or engine [shim as required]. If it is determined that the housing needs adjustment, then loosen the bolts securing the blower housing to the cross member. They are under the angle leg beneath the drive coupling and are spaced approximately 11 inches apart. They are seen easily if viewed from the end of the machine under the engine base. If the misalignment is slight, you may be able to correct it now with the two vertical adjusting screws which are threaded through a small flange on the side of the blower housing side beneath the sealed flange bearing. Make the adjustment, then re-measure the two coupling flanges. If the gap is eliminated, tighten all bolts and again check alignment. If coupling is aligned, start engine and check for vibration. If vibration exists contact your servicing dealer or the factory for assistance.

For more information on coupling alignment, see ***"DRIVE COUPLING ALIGNMENT"*** .

ENGINE: Daily inspection involves checking oil level, air cleaner and removing dirt and chaff from engine cowl. Refer to engine manual for the manufacturers maintenance schedule and further details.

WINTERIZING AND STORAGE

When the season is over, a preventative maintenance plan for laying up the machine over the winter months will simplify spring start up.

1 • It is assumed that the entire unit will have been thoroughly cleaned and washed down both inside and out. Peeling paint or rusty spots should be scraped, primed and painted. The standard 100 hour check should be performed on the engine. The air cooled engine should be fogged to prevent sticking valves. Reference the specific engine manual for cold weather preparation.

2 • Remove the battery , fill and charge, and store in a dry, preferably warm area. Never store a battery directly on the ground or on concrete.

3 • Lubricate all components as listed per the ***"MAINTENANCE SCHEDULE".***

4 • Any identified repairs should be performed now to simplify next season's start up.

5 • If the machine cannot be stored inside during the winter months, cover the entire unit to protect from the elements.

MAINTENANCE SCHEDULE

At the end of each job, clean residual materials spilled or over sprayed onto and around the machine. Clean dirt and chaff from the engine cooling fins and shroud.

FIRST 4 HOURS:	• **CHECK ENGINE AND ALL MOUNTING BOLTS.**
	• **CHECK DRIVE COUPLING SET SCREWS. RETORQUE IF LOOSENED.**
	• **CHECK ENGINE CONTROLS.** **CHECK ENGINE MANUAL RELATED INFORMATION**
	• **CHECK ENGINE FLUID LEVELS.**
	• **INSPECT RUNNING GEAR AND HITCH COMPONENTS**
EVERY 4 HOURS:	• **CLEAN AIR INTAKE PRECLEANER FOAM.** **CHECK ENGINE MANUAL RELATED INFORMATION**
	• **REPEAT THE FIRST 4 HOURS INSPECTION.**
EVERY 20 HOURS:	• **INSPECT FLAIL CHAINS AND BLOWER WHEEL.**
	• **OIL THE THROTTLE AND CHOKE MECHANISMS.**
	• **CLEAN AIR INTAKE PRECLEANER FOAM.** **CHECK ENGINE MANUAL RELATED INFORMATION**
	• **LUBRICATE HITCH COMPONENTS**
	• **REPEAT THE FIRST 4 HOURS INSPECTION.**
EVERY 40 HOURS:	• **CHECK BATTERY ELECTROLYTES.**
	• **CHECK AND SET ENGINE RPM TO 3200 MAXIMUM.**
EVERY 100 HOURS:	• **TUNE UP ENGINE.** **CHECK ENGINE MANUAL FOR RELATED INFORMATION**
	• **CHANGE ENGINE OIL.** **CHECK ENGINE MANUAL RELATED INFORMATION**
	• **REPLACE AIR CLEANER CARTRIDGE.** **CHECK ENGINE MANUAL RELATED INFORMATION**
	• **LUBRICATE BLOWER SHAFT BEARINGS**
	• **CHECK TIRES FOR INFLATION AND WEAR PATTERN**
	• **INSPECT AXLE SPRINGS AND COMPONENTS**

DO NOT OVER GREASE BEARINGS!

For specific engine maintenance instructions, please refer to the engine manufacturer's manual.

DRIVE COUPLING ALIGNMENT

When aligning the coupling, it is important that the centerline of the driven shaft be true to the centerline of the engine shaft. Wear on the flex element due to the axial and radial misalignments will be avoided with proper alignment.

COUPLING SHOULD BE ALIGNED WITHIN .010" PARALLEL AND .200" ANGULAR.

1 • To check PARALLEL drive coupling alignment, use a notched straight edge (notch should be sufficient to clear the center member) and a feeler gauge. Place the straight edge across the two coupling flanges and measure the maximum offset at various points around the periphery of the coupling without rotating the coupling. If the maximum offset exceeds .010", realign the shafts.

2 • To check ANGULAR drive coupling alignment, a micrometer or caliper must be used. Measure from the outside of one flange to the outside of the other at intervals around the periphery of the coupling. Determine the maximum and minimum dimensions without rotating the coupling. The difference between the maximum and minimum must not exceed .200". If correction is required be sure to recheck the parallel alignment.

3 • In the field, the angular measurements may be approximated with a tape or ruler. Use opposite reference positions on the driven shaft flange, measuring to respective locations on the perimeter of the coupling flange (engine side). The variations should be limited to 1/32". However, this method should be rechecked as soon as possible as indicated above.

REINCO 502 COUPLING

ALIGNMENT OR REPLACEMENT

It should not be necessary to replace any parts on the drive coupling assembly, provided that misalignment is discovered at the onset. The following procedure covers the method to replace an entire coupling assembly, and may also be used as a guide for alignment also.

1 • Inspect the coupling assembly for damage. Secure replacements as required.

2 • Remove any protective coatings or lubricants from bores, mating surfaces and fasteners. De-burr any marred surfaces and edges.

3 • Slide one coupling flange onto each shaft. The keys must fit snugly. Should the fit be loose, find out why and correct before proceeding further. Nest the sleeve (flexible element) with metal ring within one flange. Draw the two flanges together with some clearance between the element and flanges (approx. 1/32" total or 1/64" per side). Center the flanges between the two shafts. Then torque the set screws on the flanges securely.

4 • Check parallel and angular alignment as described above. Should the alignment be within specifications, proceed to step 6.

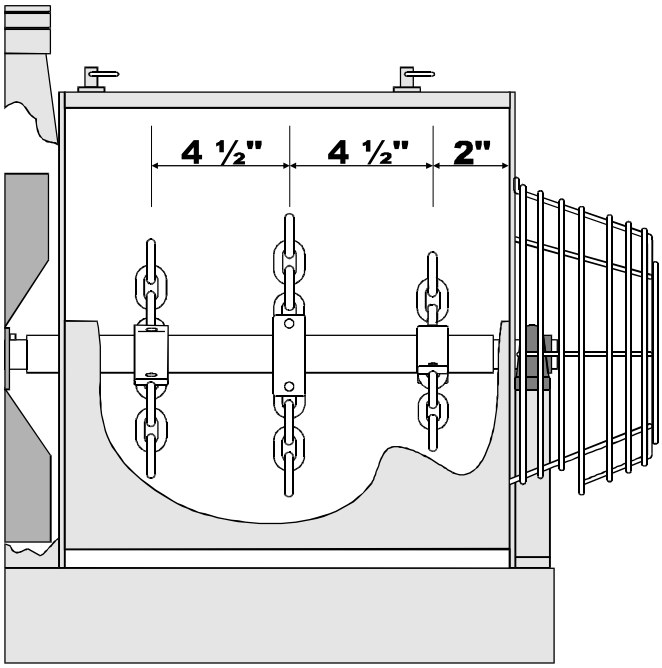
5 • Loosen bearing and/or engine bolts, as required, to shim to correct the alignment. Torque the bearing and engine fasteners, then repeat step 4.

6 • Check to insure that all fasteners are securely torqued and replace coupling guard.

.

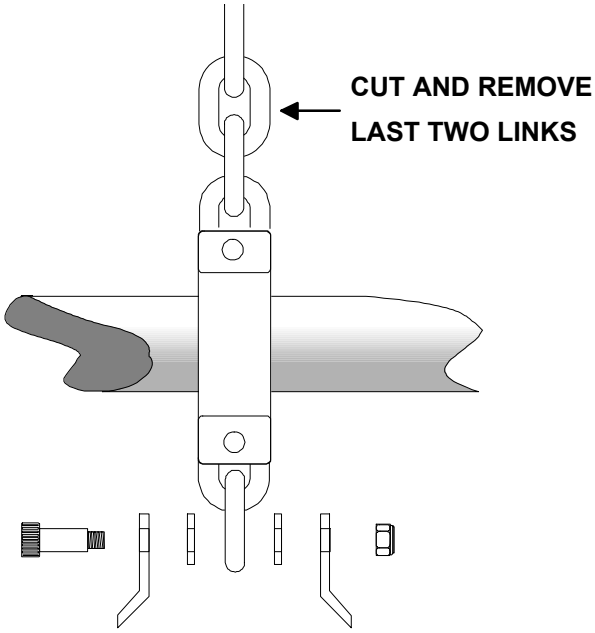
MULCH LENGTH AND BEATER CHAIN ADJUSTMENT

Pairs of steel clamps secure the chains to the beater shaft by means of a pair of 3/8" bolts. The chains are of alloy steel, casehardened and mounted in pairs of four link stations. The first is mounted 2" from the beater drum end sheet. The other two are 4½" apart. Each station is set 120° from one another as viewed from the open end of the shaft.



The position of the chain on the beater shaft will determine the stalk length of the discharged mulch. The station nearest the blower inlet will determine stalk length. Moving closer to the blower will shorten the stalks. Positioning too close to the inlet, however, will act as a restriction in getting mulch to the blower. One or both of the stations farthest from the blower inlet may not be required , depending on the mulch. With very dry and old material these can be completely removed.

Chains do wear! Scheduled inspection should be made after every 40 hours as routine. If wet, moldy mulch is used, inspection should become a daily routine. The link chain used is case hardened (Grade 70) for wear resistance. On inspection, if an apparent groove is beginning to form between the mating links the chain should be replaced in pairs.



INSTALL FLAIL KNIFE ASSEMBLY ON BOTH ENDS OF CHAIN STATION

When processing coarse or green mulch, or salt hay, a series of cutting knives should be installed in lieu of the 4 link station closest to the blower wheel. These are available in sets, which include mounting hardware for one station. (PART No. CH0643.22)

These are not installed as standard equipment because stalk length with average mulch hay would be much to short.

To install the flail knives:

1 • Cut or burn the two outer links from the station closest to the blower wheel.

2 • Secure the knives as shown in the diagram to the left. One kit includes all parts required for one chain station.

Should the mulch be too fine, try removing one or both of the other stations. also try locating the knife assembly at another location.

REINCO MODEL TM-Jr

POWER MULCHER

PART PICTORIALS

REPLACEMENT PARTS

TO ORDER REPLACEMENT PARTS:

Identify the part(s) by item number using the pictorial schematic provided. Match the item number to the list, and identify the part required by stock number. Contact your **REINCO** dealer for price and availability. Parts may be ordered directly from the factory, outside of dealer territories. Parts ordered from the factory, for shipment to a customer within a dealer territory will be directed through the respective dealer's Parts and Service departments.

Many of the parts listed are commercially available and may be procured locally. Manufacturer's specific part numbers are available on request.

Other parts, such as engine components may be obtained through the respective manufacturer's distribution and service network.

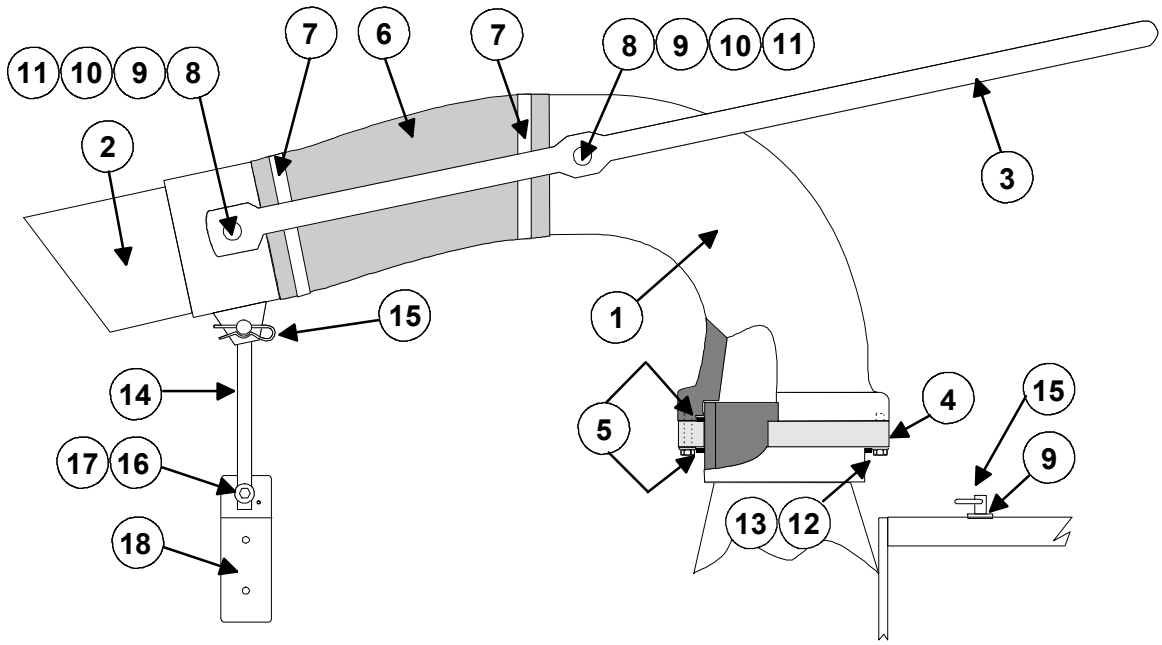
Should you require assistance with regard to locating these agencies, contact your **REINCO** dealer or **REINCO** directly.

OPERATION PARTS AND SERVICE MANUALS

Additional user manuals may be ordered by part number persuant to the following table:

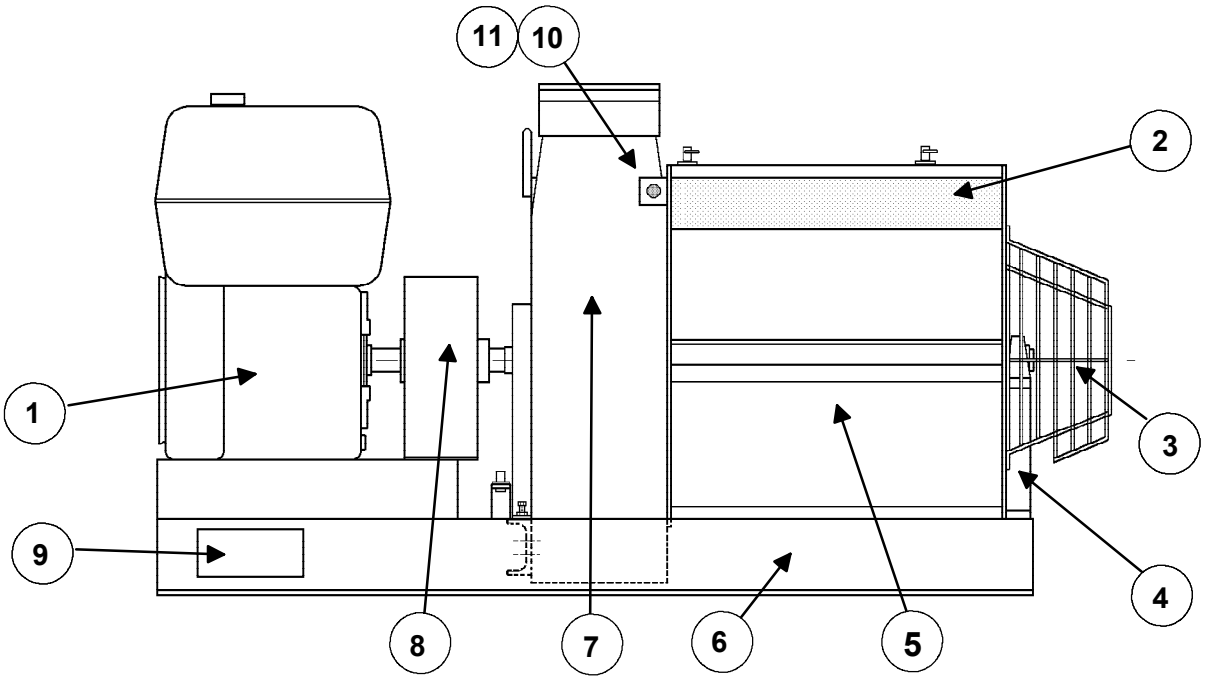
MANUAL PART NO.	MACHINE DESCRIPTION
00902000	Power Mulcher Safety Manual Common for All Reinco Mulchers
32000900	TM-Jr Serial No. 1100 - 1399
32000920	TM-Jr Serial No. 1400 - 1599
32000930	TM-Jr Serial No. 1600+

UPPER UNIT DETAILS



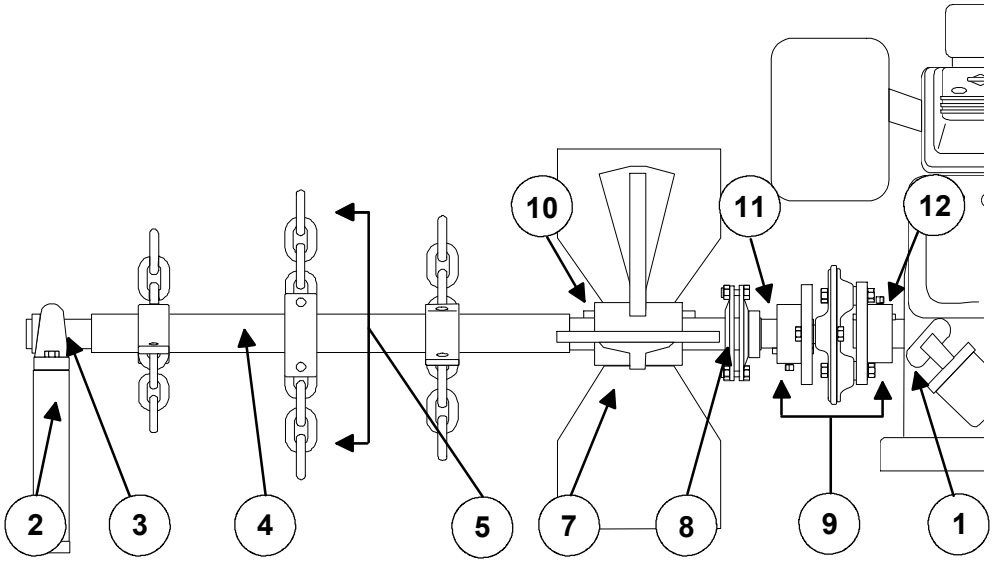
ITEM	PART NUMBER	DESCRIPTION	QTY
	32015000	**DISCHARGE BOOM ASSEMBLY**	1
		INCLUDES ITEMS 1 TO 13, UNASSEMBLED	
1	32135020	DISCHARGE ELBOW	1
2	32152020	DISCHARGE END SPOUT	1
3	32012040	HANDLE BAR	1
4	32172000	DISCHARGE BOOM BEARING	1
5	RI4406.50	RETAINING RING	2
6	32011030	BOOM HOSE	1
7	HO8160.37	TEE BOLT CLAMP	2
8	FA1122.12	STUD, 3/8NF-3/4 X 3/8NC-½ X 1½	4
9	FA0390.02	3/8" NYLON FLAT WASHER	6
10	FA0320.03	3/8" FLAT WASHER	4
11	FA2241.03	3/8-24 NYLOCK STOP NUT	4
12	FA0390.01	¼" NYLON FLAT WASHER	6
13	FA1122.12	¼-20 X 1¼ HHCS	6
14	32111040	BOOM LOCK BAR	1
15	HA7150.01	HAIRPIN COTTER	3
16	FA1183.04	5/16 X ½ SOCKET SHOULDER BOLT	1
17	FA1244.01	¼-20 NYLOCK JAM NUT	1
18	VARIOUS	BOOM LOCK BRACKET, SPECIFY UNIT SERIAL NUMBER AND ENGINE	1

LOWER UNIT DETAILS



ITEM	PART NUMBER	DESCRIPTION	QTY
1	EN3014.00	KOHLER M14-T ENGINE SPEC. No. 601545	1
	EN3014.50	KOHLER M14-S ENGINE SPEC. No. 601502	ALT
	EN3015.00	KOHLER CH-14 ENGINE SPEC. No. 1820	ALT
2	32121010	NEOPRENE DEBRIS SHIELD	1
3	31651000	BEARING GUARD	1
4	32035040	BEARING MOUNT	1
5	32044000	BEATER DRUM	1
6	32037000	BASE FRAME	1
7	32065000	BLOWER HOUSING	1
8	32094000	COUPLING GUARD	1
9	ID2600.11	SERIAL NUMBER PLATE	1
10	CO6040.03	THROTTLE CABLE	1
11	31121020	THROTTLE CABLE BRACKET	1
		BATTERY ITEMS (NOT SHOWN)	
12	BA8802.20	BATTERY, SP-30R	1
13	32241010	BATTERY HOLD DOWN	1
14	BA8805.01	BATTERY HOLD DOWN BOLT, 3/8-16 x 11¼	1
15	BA8805.02	BATTERY HOLD DOWN BOLT, 3/8-16 x 7½	1
16	BA8808.03	BATTERY CABLE, 9" BLACK	1
17	BA8808.06	BATTERY CABLE, 24" RED	1

DRIVE TRAIN DETAILS



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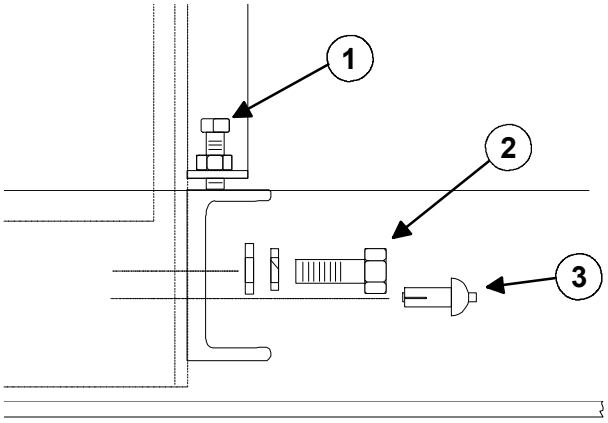
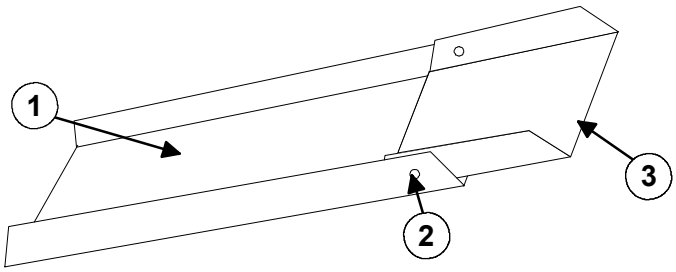
1	EN3014.00	KOHLER M14-T ENGINE SPEC. No. 601545	1
	EN3014.50	KOHLER M14-S ENGINE SPEC. No. 601502	ALT
	EN3015.00	KOHLER CH-14 ENGINE SPEC. No. 1820	ALT
2.0	32035040	BEARING MOUNT	1
3.0	BE0240.01	PILLOW BLOCK BEARING	1
4.0	32072000	BEATER SHAFT	1
5.0	32081040	BEATER CHAIN ASSEMBLY COMPLETE	3
		INCLUDES ITEMS 5.1 TO 5.4	
5.1	32081000	BEATER CHAIN BRACKET	2
5.2	CH0642.24	BEATER CHAIN, ¼ x 4 LINK, GRADE 70 CH	2
5.3	FA2124.14	3/8-24 x 1½ HHCS	2
5.4	FA2241.03	3/8-24 NYLOCK STOP NUT	2
6.0	CH0643.22	FLAIL KNIFE KIT (NOT SHOWN)	OPT
7.0	BL6010.01	BLOWER WHEEL	1
8.0	BE0342.01	SIDE PLATE FLANGE BEARING	1
9.0	CO8436.10X	COUPLING ASSEMBLY COMPLETE (1-1/8" x 1")	1
	CO8436.20X	COUPLING ASSEMBLY COMPLETE (1-1/8" x 1-1/8")	ALT
		INCLUDES ITEMS 9.1 TO 9.4 - **SPECIFY SERIAL No.**	
9.1	CO8435.31	FLEXIBLE CENTER MEMBER	1
9.2	CO8435.32	HARDWARE KIT	1
9.3	CO8436.11	COUPLING FLANGE, 1-1/8" BORE, BLOWER SIDE	1 or 2
9.4	CO8435.33	COUPLING FLANGE, 1" BORE, ENGINE SIDE	1 or 0
10.0	KE9003.11	BLOWER WHEEL KEY, 3/8 SQ. x 3½" BER	1
11.0	KE9001.20	COUPLING KEY, ¼ SQ. x 2" BER, BLOWER SIDE	1
12.0	KE9001.06	COUPLING KEY, ¼ SQ. x 2¼" BES, ENGINE SIDE	1

BLOWER HOUSING ALIGNMENT DETAILS



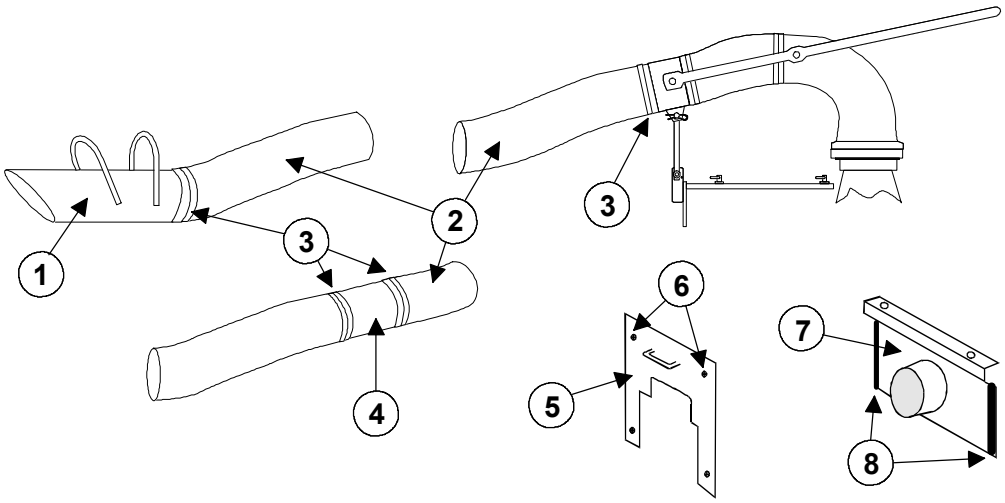
ITEM	PART NUMBER	DESCRIPTION	QTY
1.0		**BLOWER HOUSING HEIGHT ADJUSTMENT SCREWS**	
1.1	FA1574.14	3/8-16 x 1 SQHD KCPSS	2
1.2	FA1221.03	3/8-16 SF HEX NUT	2
2.0		**BLOWER HOUSING SECURING FASTENERS**	
2.1	FA1124.10	3/8-16 x 1 HHCS	2
2.2	FA0330.03	3/8 SPLIT LOCK WASHER	2
2.3	FA0320.03	3/8 FLAT WASHER	2
3.0	**FA0724.30**	**ALIGNMENT LOCKING DRIVE RIVET**	**2**

LOAD TRAY DETAILS



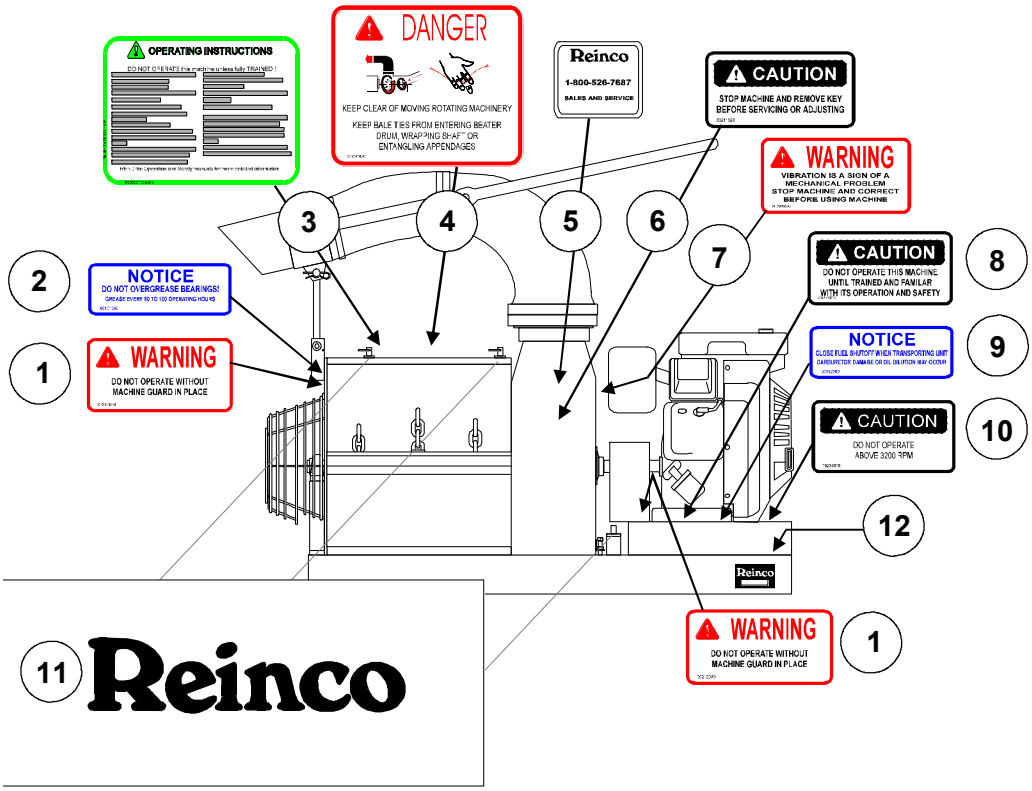
ITEM	PART NUMBER	DESCRIPTION	QTY
	32055000	**LOAD TRAY ASSEMBLY COMPLETE**	**1**
		INCLUDES ITEMS 1.0 TO 3.3	
1.0	32055010	FIXED TRAY	1
2.0	32055020	FOLD TRAY	1
3.1	FA1154.09	3/8-16 x 3/4 BHSS	2
3.2	FA1241.03	3/8-16 NYLOCK STOP NUT	2
3.3	FA0390.02	3/8 NYLON WASHER	2
4.0	ID2625.02	REINCO LOGO APPLIQUÉ (NOT SHOWN)	1

ACCESSORIES



ITEM	PART NUMBER	DESCRIPTION	QTY
	32009100	**HOSE STARTER KIT**	**1**
		INCLUDES ITEMS 1 TO 3	
1	32101010	HOSE END DISCHARGE PIPE	1
2	HO6160.04	6" x 25' MATERIAL HANDLING HOSE	1
3	HO8160.37	T BOLT CLAMP	2
	32009200	**EXTENSION HOSE KIT**	**1-3**
		INCLUDES ITEMS 2 TO 4	
2	HO6160.04	6" x 25' MATERIAL HANDLING HOSE	1
3	HO8160.37	T BOLT CLAMP	2
4	32101020	EXTENSION HOSE COUPLER	1
	32009300	**VACUUM ADAPTER KIT**	**1**
		INCLUDES ITEMS 5 TO 8	
5	32231010	SUCTION ADAPTER	1
6	FA1122.10	¼-20 x 1 HHCS	2
7	32231020	SUCTION COVER PLATE	1
8	GA7003.01	EXTRUDED GASKET (FEET)	1½

DECALS AND LABELS



ITEM	PART NUMBER	DESCRIPTION	QTY
	32009020	**DECAL SET COMPLETE**	**1**
		INCLUDES ITEMS 1 TO 11	
1	00211030	WARNING DECAL, GUARD	2
2	00191000	NOTICE DECAL, LUBRICATION	1
3	30000810	NOTICE DECAL, OPERATING INSTRUCTIONS	1
4	30000820	DANGER DECAL, MOVING MACHINERY / BALE TIES	1
5	00241000	NOTICE DECAL, REINCO SALES SERVICE	2
6	00211020	CAUTION DECAL, STOP MACHINE	1
7	00291000	WARNING DECAL, VIBRATION	1
8	00271000	CAUTION DECAL, EQUIPMENT TRAINING	1
9	00192000	NOTICE DECAL, SHUT OFF FUEL B&S V-18	1
10	00231000	CAUTION DECAL, 3200 MAX RPM	1
11	ID2625.02	DECAL, REINCO LOGO	1
12	ID2600.11	SERIAL NUMBER NAMEPLATE	1

NOTES

