

CHIPPER CHECK OUT LIST

Show Customer Knife Condition _____

Starting Instructions _____

Feed Control Valve _____

Forward / Reverse Control Bar _____

Proper Feeding Techniques _____

Fuel Tank Location _____ **Gas Only**

MISUSE WARNING: This chipper is for tree branches and limbs only! You are responsible for any damage caused by nail, metal, dirt or sand embedded wood, wire, rocks, etc. Misuse Voids The Equipment Protection Plan!

Employee Print: _____

Customers Signature: _____

Date: _____

Note: Upon Return The Condition Of The Knives Will Be Inspected!

**WARNING
TOWABLE CHIPPERS**

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. If any safety devices or warnings have been removed, defeated, defaced or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

**Weight 2,360 lbs. 12 ga. fuel capacity
A TOOL SHED IS NOT RESPONSIBLE FOR BUMPER DAMAGE
<<< Not allowed over 100 miles from our outer most location. >>>**

MISUSE WARNING

This chipper is for tree branches and limbs only! You are responsible for any damage caused by nail, metal, dirt or sand embedded wood, wire, rocks, etc.

Over feeding or putting piles of leaves or debris in the hopper will slow the cutter wheel causing it to jamb. This misuse will damage the belts and the centrifugal clutch. Misuse Is Not Covered By The Equipment Protection Plan. A cleaning charge will apply.

ALWAYS WEAR SAFETY GLASSES EAR AND FACE PROTECTION

IMPORTANT SAFETY RULES TO FOLLOW

 **WARNING** Before starting the Chipper. Make sure the area has been secured to keep bystanders clear and out of the restricted/operator's only area. (At least a 50 foot diameter circle around the Chipper) If necessary use barricades, cones, delineator posts and caution tape. Check to see that all the belt guards are in place and that the infeed hopper is clear of any foreign objects.

 **DANGER** Make sure to position the discharge chute into a safe and restricted area. Discharge chips are moving at a high rate of speed and can cause property damage and /or injuries to animals or pedestrians.
Note: Chips will break the back window out of a truck.

 **DANGER** When operating the Chipper never wear loose fitting clothing or gloves that do not fit your hands snugly. Loose fitting clothes can become entangled in the chippers moving parts or branches pulling you into the Chipper resulting in dismemberment or death. Always wear personal protective equipment including, hardhat, safety shoes, eye protection, ear protection and gloves. **CONTACT WITH ROTATING FEED ROLLER AND CUTTER WHEEL CAN KILL OR DISMEMBER.**

 **WARNING** Whenever feeding branches into the Chipper always stand to the curb side of the hopper infeed table. Never stand directly in hopper opening. Limbs and chips can be kicked back or thrown out of hopper. If working near traffic, wear high visibility clothing.

 **WARNING** Never push short branches, twigs or leaves into the Chipper. When you are feeding a longer branch simply toss the smaller pieces on top. The longer branch will pull them into the chipper automatically.

 **DANGER NEVER REACH INTO THE INFEED HOPPER!** If a feeding problem should occur place the feeder control bar in neutral, shut machine down and wait until the cutting wheel comes to a complete stop before resolving the problem. Do the same before refueling, cleaning or transporting.

ATTENTION Whenever feeding limbs into Chipper, feed butt end first. This practice will decrease the problem of wedging or jamming in hopper.

 **CAUTION** Always keep the chipper on level ground when unhooked from truck. Always block both tires front and rear, make sure rear stabilizer tube is down and locked to keep Chipper from tipping backwards. Chipper should always be sitting level from front to back when unhooked from truck. The chipper must be operated on a firm, level surface.

 **DANGER** Fuel and fumes can catch fire or explode and cause burns. Make sure engine is turned off and cooled down before refueling. Do not touch any hydraulic line that may burst. Hydraulic fluid is under extreme pressure and can cause serious burns or puncture your skin. Prevent fires by keeping engine compartment; battery, hydraulic lines, fuel tank and operator's station clean of trash, grease, and debris. Exhaust fumes can be fatal. Work outdoors only.

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. If there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**

BRANCH CHIPPER CONTROLS



Start the engine at an idle then slowly bring the RPM's up, giving the cutting wheel time to build up speed.

ALWAYS RUN THE MOTOR AT FULL THROTTLE OR THE FEED WHEEL WILL NOT TURN.



FEED WHEEL CONTROL HANDLE
Pulling this handle towards you engages the feed wheel moving the branches into the cutting wheel. The middle position is neutral and pushing the handle all the way forward reverses the feed wheel.



FEED WHEEL SPEED CONTROL LEVER
This lever make the feed wheel turn faster or slower.
0 = SLOWEST 10 = FASTEST
If the feed wheel keeps stopping you have the lever set too high.
THE FEED WHEEL WILL NOT RESUME TURNING UNTIL THE CUTTING WHEEL REGAINS THE PROPER RPM's

SAFE WORKING AREA

In order to create a safe working area, each crew must consider:

- 1) Placement of equipment and the brush pile.
- 2) Keeping children, pets and onlookers in a safe distance.
- 3) Guard chipper discharge.
- 4) Minimize interference with auto traffic.

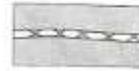
Using these safety tools, layout a safe working area that best fits your project and/or situation.



Barricade Signs



Safety Cones



Caution Tape

The example below, is also a sticker on the side of your machine.
Please Note: This is a proposed layout, your safe working area may vary.



DEBRIS HANDLING EQUIPMENT

Safety is No Accident

Follow these step for a safe and successful chipper rental

By Lisa Cleaver, managing editor

WARNING



This Chipper is for tree limbs and branches only!

The damage to the blade in this picture was caused by nail embedded wood. Feeding nail embedded wood, wire, rocks or any other foreign materials through this Chipper is considered misuse and is not covered by the Equipment Protection Plan.

Total cost of repairs billed to the customer for damages to the Chipper were \$410.18

Note: We always inspect the Chipper blades and bed knife before and after each rental.

When renting a brush chipper, it's important to know and understand how to safely operate the equipment. Following are some tips to help you have a successful — and safe! — chipper rental.

- Never operate a chipper alone. There should always be at least two trained operators on the worksite at all times.
- Avoid walking in the path of the discharge chute while the machine is in operation.
- Keep your face and body back from the feed hoppers to avoid blowback. Only operate the unit from the operator zone!
- Avoid breaking the plane of the knives when feeding material.
- Never place hands or feet inside the infeed chute while the machine is in operation.
- Never try to maintain the rental unit. If a problem arises, take the chipper back to the rental center so a properly trained service technician can work on it.
- Never operate equipment with the die/drum hood open or guards missing.
- Never operate the machine in an area where potential damage can occur from the high-velocity discharge of material (e.g. discharging into a truck bed or next to a physical structure).
- Keep children and pets away from the chipper during operation.



For a successful chipper rental, be sure you understand all the proper operating procedures before leaving the rental yard.

- Long hair should be secured and jewelry should be removed.
- Always wear the correct personal protective equipment (PPE) including: hard hat with face shield, gloves without cuffs (no quilted-style gloves), hearing and eye protection, work boots with hard toes, and safety tucked in clothing.

Equipment Inspections

The final step toward safe chipper rentals is thoroughly inspecting the unit before each use. All inspections should be done with the key removed and the ignition

in the OFF position. Be sure to do the following:

- Review all safety decals and check all engine gauges, replacing any that might be damaged.
- Make sure all guards are tight and securely in place.
- Inspect all OEM installed safety devices for proper operation.
- Inspect the operator control bar, making sure it moves freely and functions properly.
- Inspect the chipper disc or drum for wear and/or cracks.
- Inspect the chipper knives for damage and replace, or file as needed.
- Inspect chipper knife attaching hardware and replace as needed.
- Inspect the chipper apron area to ensure the infeed cutting edge is within OEM tolerances (i.e. cutting edge is the proper distance from the knives and has a good 90-degree cutting edge).
- Inspect bolt tension, making sure the bolts are within tolerance from the engine to the cutting mechanism.

Accidents usually occur when people make mistakes. By knowing the proper operating procedures and thoroughly inspecting the equipment before use, you're on your way to a successful chipper rental. ■

Information provided by Danell Industries, Mustang Industries and MacKinnon, Inc.