

SOP - Wood Chipper

DO NOT use this plant* unless you have been inducted in its safe use and operation by an Authorised Experienced Operator

This SOP may not cover all possible hazards and risks and should be referred to as a control measure in the risk assessment process. Additional training may be required for high risk plant. Site and task may change required PPE.

PERSONAL PROTECTIVE EQUIPMENT



Eye protection must be worn



Long and loose hair must be contained or covered.



Hearing protection must be worn



Foot protection must be worn



Fitted hand protection must be worn



Protective body clothing must be worn



High visibility clothing must be worn

POTENTIAL HAZARDS AND RISKS

- i Entanglement**
Entanglement in moving parts
- i Shearing**
Body parts sheared between items of plant
- i Struck by Moving Object**
Struck by moving object due to work pieces being ejected
- i Cutting, Stabbing or Puncturing**
Injury from sharp or flying object
Injury from contact with moving parts
Injury from work pieces being ejected
- i Other**
Injury due to kickback from sharp rotating parts
Hearing damage from excessive noise
Exposure to toxic fumes
Injury due to plant malfunction or misuse
- i Manual Task Injury**
Manual task injury from incorrect manual handling techniques

PRE-OPERATIONAL SAFETY CHECKS

- ✓ Complete site specific risk assessment
- ✓ Complete the appropriate pre-operational plant checklist
- ✓ Ensure chipper has been serviced, this will include chipper blades sharpened
- ✓ Ensure you are familiar with plant operations and controls
- ✓ Ensure guards are fitted, secured and functional in accordance with manufacturers guidelines
- ✓ Check all bolts and screws for proper tightness
- ✓ Never operate without the shredder hopper, chipper chute, or discharge chute properly attached to the machine
- ✓ Ensure a designated work area is established
- ✓ Ensure chipper is on stable ground
- ✓ Ensure gloves are well fitted
- ✓ Allocate worker as spotter to warn and engage emergency stop if required

OPERATING PROCEDURES

- ✓ Keep clear of moving plant parts
- ✓ Ensure no person or animal is endangered when operating plant
- ✓ Before making adjustments bring plant to a complete standstill and isolate

- ✓ Know how to stop the chipper and disengage it quickly
- ✓ Before starting the chipper, make sure the chipper chute, feed intake, and cutting chamber are empty and free of all debris
- ✓ Inspect wood going into chipper for any foreign items such as nails, rope, etc.
- ✓ If the impeller strikes a foreign object or if the chipper starts making an unusual noise or vibration, immediately shut the engine off. Visually inspect for damage, contact your supervisor if repairs are required
- ✓ Stand clear when loading twisted branches into the hopper, let the chipper do the work
- ✓ Before cleaning, repairing, or inspecting, stop the engine and make certain the impeller and all moving parts have stopped. Place lock out tag over control box lock and keep keys on you while working on chipper

ENDING OPERATIONS

- ✓ Allow plant to cool before performing any maintenance, refuelling or cleaning
- ✓ Refuel plant at least 3 metres from combustibles
- ✓ Ensure plant is in good working order and stored in the appropriate location
- ✓ Clean away any foreign material in and around the motor, blades and guards

DO NOT

- ✘ Do not operate this plant on paved, gravel or uneven surfaces
- ✘ Never run an engine indoors or in a poorly ventilated area
- ✘ Do not attempt to shred or chip material larger than specified on the machine or in manual
- ✘ Do not put any body parts near rotating parts or in the feeding chambers and discharge opening
- ✘ If it becomes necessary to push material through the shredder hopper, use a small diameter stick. Do not use your hands or feet
- ✘ Do not allow an accumulation of processed material to build up in the discharge area
- ✘ Never attempt to unclog either the feed intake or discharge opening, or inspect and repair the machine while the engine is running
- ✘ Never remove fuel cap or add fuel while the engine is hot or running. Allow engine to cool at least two minutes before refuelling
- ✘ Do not use if plant is faulty. Attach a DO NOT OPERATE tag and report fault to your supervisor
- ✘ Do not leave plant running unattended
- ✘ Do not leave keys in machinery whilst unattended
- ✘ Do not wear loose jewellery
- ✘ Do not use mobile phone while operating plant

EMERGENCY E-STOP BUTTON

1. Push the **red coloured bump bar** at the lower edge of the feed table or pull the **red coloured feed control bar** at the upper section of the feed table toward you or push the **emergency e-stop** at the engine control panel if you are near the engine control panel (the feed rollers will now stop rotating)
2. Carefully check for any foreign object(s) lodged in between the feed rollers. This operation must be performed by visually sighting the feed rollers and the feed table whilst applying extreme personal care, do not attempt to manually dislodge the item(s) with your hands
3. In the event where a non-timber product is lodged in between the feed rollers the following actions must be performed:
 - reverse the feed rollers to dislodge the non timber product with extreme care by pushing the **red coloured feed control bar** into the reverse position, fig 4. The feed rollers will now eject the non-timber product away from the internal cutter drum
4. Safely remove the non-timber product from the feed table
5. If the **emergency e-stop** was pushed and the foreign object has now been removed, reset the **emergency e-stop** at the control panel by pulling it towards you, and then push either one of the **green buttons** positioned on both sides of the upper section of the feed table to continue feeding the timber product. As the operator of the chipper, you must fully understand the above listed operations before attempting to operate the plant

PUSHING THE BUMP STOP

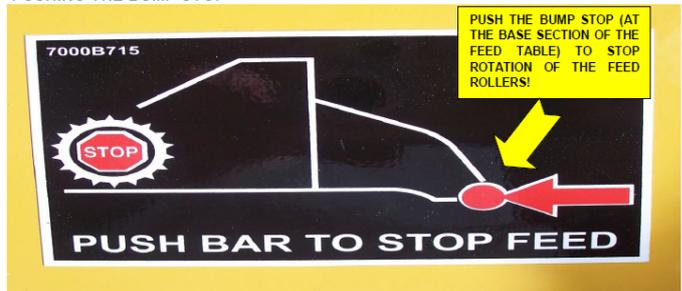


Fig. 1

PULLING THE FEED CONTROL BAR

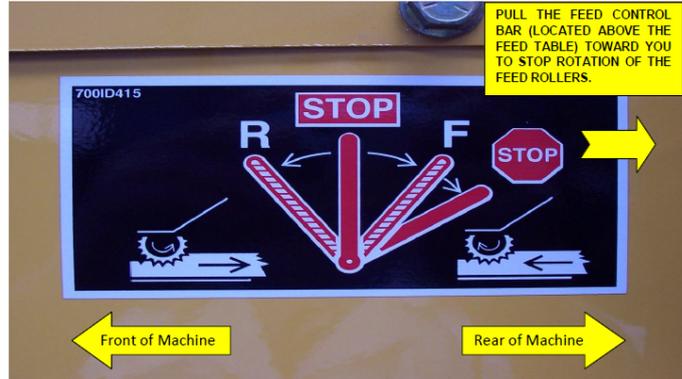


Fig. 2

PUSHING THE EMERGENCY E-STOP BUTTON



Fig. 3

PUSHING THE FEED CONTROL BAR TO REVERSE THE FEED ROLLERS

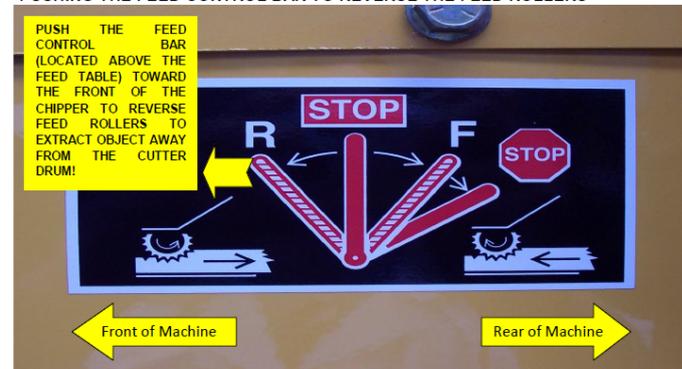


Fig. 4

*Plant in this SOP refers to any machinery, equipment, appliance, container, implement and tool.