

PH: (269) 382-2050

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# HS14 NON-FERROUS SAW MANUAL





## WARNING!

TO REDUCE THE RICK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN, ANY LIQUID OR MOISTURE.

#### **INSPECTION**

If these goods are damaged in transit, the **DELIVERING TRANSPORTATION COMPANY** is required by law to make notation of damages on the freight bill. If in your opinion, there may be concealed damage, they are required to make an inspection after goods are unpacked. Transportation rates are made in proportion to damage. Therefore, the carrier and **NOT** the shipper should be charged with any loss or damage. Any claim should be filed with the delivering Transportation Company. **PLEASE DO NOT RETURN GOODS TO US WITHOUT OUR RGA NUMBER AND SHIPPING INSTRUCTIONS.** 

<u>Electrical</u>: **CAUTION**: Voltage changes require wiring changes at drive motor. **WARRANTY DOES NOT COVER** unauthorized wiring changes/failures. <u>Consult an electrician an electrician if your not familiar with electrics</u>.

#### **HS14 SETUP**

- BEFORE STARTING OR CONNECTING ELECTRICAL VERIFY THE PHASE AND VOLTAGE OF THE UNIT.
- BE SURE MACHINE IS BALANCED CORRECTLY SO IT WILL TIP OVER.
- TO GUARD AGAINST CONCEALED DAMAGE, STAND CLEAR AND OBSERVE UNIT FOR THE FIRST FEW MINUTES OF OPERATION. GUARDS MUST NEVER BE REMOVED.
- BEFORE INSTALLING THE ABRASIVE WHEEL CONFIRM THAT THE CUTOFF WHEEL IS DESIGNED TO RUN AT 4400 SFPM (MOS). YOU CAN FIND THIS INFORMATION DIRECTLY ON THE THE SIDE OF YOUR CUTOFF WHEEL. IT

#### HIGH SPEED SAW SAFETY

- NEVER REMOVE SAFETY GUARDS FROM MACHINE. DISCONNECT MACHINE FROM POWER SOURCE BEFORE MAKING ANY MACHINE ADJUSTMENTS.
- DO NOT USE AROUND FLAMMABLE MATERIALS OR LIQUIDS.
- MACHINES SHOULD BE OPERATED IN VENTILATED AREAS.
- ALWAYS WEAR SAFETY GLASSES OR A FULL FACE SHIELD FOR PROTECTION.
- KEEP HANDS CLEAR OF THE CUTTING AREA.
- DO NOT WEAR GLOVES OR LOOSE FITTING CLOTHES WHEN OPERATING THIS MACHINE.
- ALWAYS KEEP HAIR TIED BACK OR COVERED.
- ALWAYS KEEP FLANGES CLEAN AND TIGHT AGAINST CUTTING WHEEL.
- MANUALLY TIGHTEN AND LOOSE SPINDLE NUT.
- DO NOT USE IMPACTED GUN TO LOOSEN OR TIGHTEN SPINDLE NUT.
- ALWAYS KEEP WHEEL GUARD IN THE DOWN POSITION.
- BE SURE WORK PIECE IS CLAMPED SECURELY IN VISE BEFORE CUTTING.

#### **WARNING!!!!**

IMPROPER USE MAY CAUSE BREAKAGE AND SERIOUS INJURY.

#### DO

- 1. DO always handle and store wheels in the vertical position.
- 2. DO visually inspect all wheels before mounting for possible damage.
- DO check machine speed against the established maximum safe operating speed marked on the wheel.
- 4. DO check mounting flanges for equal and correct diameter.
- 5. DO use mounting blotters when supplied with wheel.s
- DO always use a safety guard covering a least one-half of the high-speed wheel.
- 7. DO allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before cutting.
- DO always wear safety glasses or some type of eye protection when cutting.
- 9. DO tie back hair.

### DON'T

- 1. DON'T use a broken wheel or one that has been dropped or has become damaged.
- 2. DON'T force a wheel onto the machine or alter the size of the mounting hole if wheel won't fir the machine.
- 3. DON'T ever exceed maximum operating speed established for the wheel.
- 4. DON'T use mounting flanges on which the bearing surfaces are not clean, flat and free of burrs.
- 5. DON'T tighten the spindle nut excessively.
- 6. DON'T start the machine until the wheel guard is in place.
- 7. DON'T jam work into wheel.
- 8. DON'T force cutting so that motor slows noticeable or work gets
- 9. DON'T wear gloves and or have loose clothing when operating machine.
- 10. DON'T use tooth blade on saw.

# **BASIC OPERATION**

- 1. Be certain correct wiring is matched to motor.
- 2. Always keep flanges clean and tight against the abrasive wheel.
- 3. Be certain work piece is securely clamped in the vise. Any movement in the work piece during cutting will result in broken abrasive cutoff blades.
- 4. Down stop screw (#61) located on bracket located under the saw arm (#7) must be adjusted so the abrasive wheel does not cut into the saw base. Adjust the screw up when installing a new wheel so as not to allow the wheel to cut into the saw base. Keep adjusting the screw down as the wheel ears so you can cut thru the work piece.
- 5. Keep the blade guard in the down position at all times. Guarding is designed for abrasive blades only. **DO NOT USE STEEL TOOTHED BLADES!!! GUARDING IS NOT DESIGNED FOR STEEL TOOTHED BLADES PER OSHA AND ANSI STANDARDS.**
- 6. Select the correct high speed wheel for the material. Every wheel performs differently. Consult your dealer or wheel manufacturer for the correct high speed cutoff blade selection for your material.
- 7. Saw spindle speed is set at 4,400 SPFM select cutoff wheel that's designed to run at 4,400 SPFM or greater. Using cutoff wheel's designed to run under 4,400 SPM could cause wheel failure and could cause serious injury to operator. Contact the wheel manufacturer or dealer for the correct wheel.
- 8. Always follow safety procedures. Wear safety glasses, never wear gloves or loose fitting clothing that can get caught in the moving parts and tie back loose hair. Always keep hands out of sawing area when cutting. See attached safety sheet.
- 9. V-belts will stretch with use over time. Keep v-belts tight with 1/2" of "squeeze". Use a v-belt tensioner to tighten v-belt belt. Keep both faces of spindle and motor pulley aligned in the same plan with a straight edge. Check motor and spindle pulleys set set prior to operating the machine.

