

OPERATOR PROTECTIVE EQUIPMENT

Personal protective equipment helps make tire servicing safer. However, safety equipment does not take the place of safe operating practices. Always wear durable work clothing during tire service activity. Loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect operator's hands when handling worn tires and wheels. Sturdy leather work shoes with steel toes and oil resistant soles should be used by tire service personnel to help prevent injury in typical shop activities. Eye protection is essential during tire service activity. Safety glasses with side shields, goggles, or face shields are strongly recommended.



Owner's Responsibility

Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property. Do not assemble or operate this machine until you read and understand all the dangers, warnings and cautions in this manual.

To maintain machine and user safety, the responsibility of the owner is to read and follow these instructions:

- Follow all assembly and installation instructions completely.
- Make sure the installation conforms to all applicable Local, State, and Federal Codes, Rules, and Regulations; such as State and Federal OSHA Regulations and Electrical Codes.
- Carefully check the unit before each use.
- Read and follow the assembly and operating instructions. Keep them readily available for quick reference.
- Make certain all operators are properly trained, know how to safely and correctly operate the equipment, and are properly supervised.
- Allow the equipment to be operated only with all parts in place and operating correctly.
- Carefully inspect the unit on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with authorized or approved replacement parts.
- Keep all instructions permanently with the unit and all decals/labels/notices on the unit clean and visible.
- Do not override safety features.

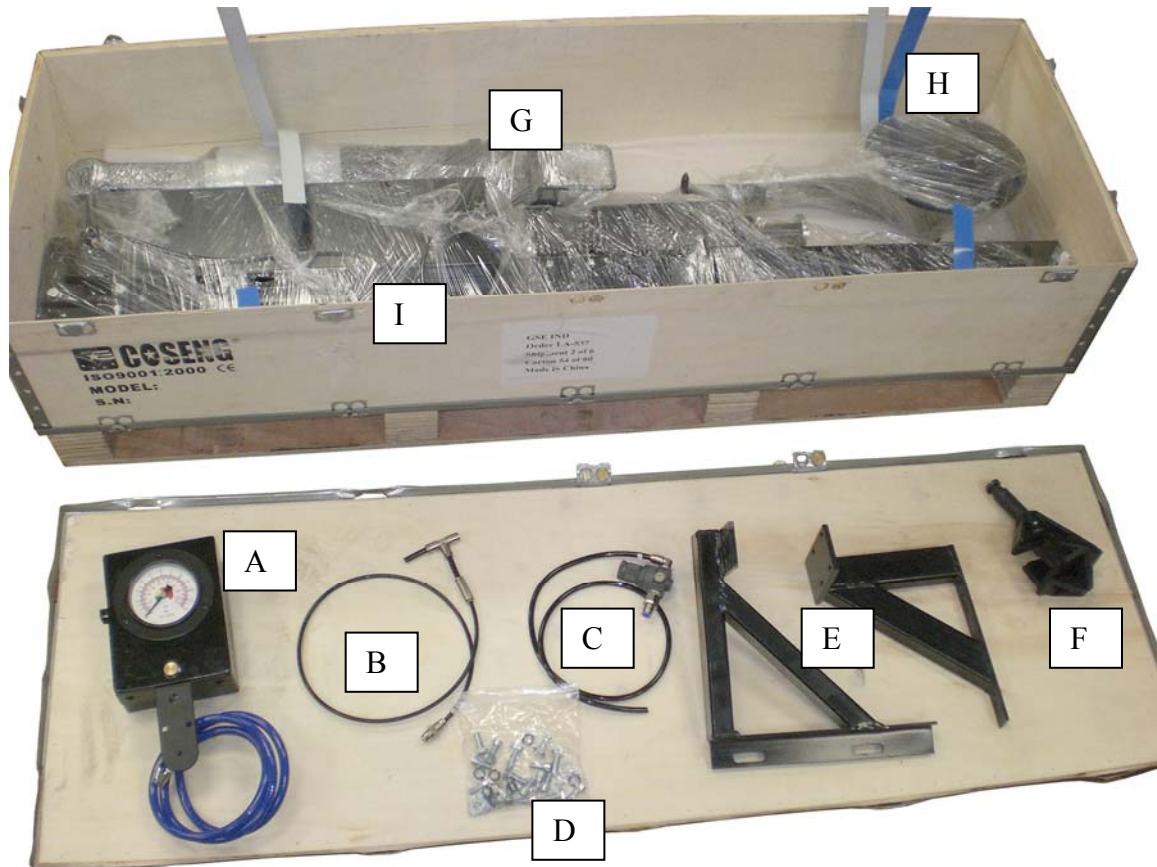
GENERAL SAFETY WARNINGS AND PRECAUTIONS

- **KEEP WORK AREA CLEAN AND DRY.**
Cluttered, damp, or wet work areas invite injuries.
- **KEEP CHILDREN AWAY FROM WORK AREA.**
Do not allow children to handle this product.
- **STORE IDLE EQUIPMENT.**
When not in use, tools and equipment should be stored in a dry location to inhibit rust. Always lock up tools and equipment, and keep out of reach of children.
- **DO NOT USE THIS PRODUCT IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.**
Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use this product.
- **USE EYE PROTECTION.**
Wear ANSI approved safety impact eyeglasses when assembling and using this product.
- **DRESS SAFELY.**
Do not wear loose clothing or jewelry, as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts. If wearing a long-sleeve shirt, roll sleeves up above elbows.
- **DO NOT OVERREACH.**
Keep proper footing and balance at all times to prevent injury.
- **INDUSTRIAL APPLICATIONS MUST FOLLOW OSHA REQUIREMENTS.**
- **STAY ALERT.**
Watch what you are doing at all times. Use common sense. Do not assemble or use this product when you are tired or distracted from the job at hand.
- **CHECK FOR DAMAGED PARTS.**
Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace or repair damaged or worn parts immediately.
- **REPLACEMENT PARTS AND ACCESSORIES:**
When servicing, use only identical replacement parts. Only use accessories intended for use with this product. Approved accessories are available from Greg Smith Equipment Sales.
- **MAINTAIN THIS PRODUCT WITH CARE.**
Keep this product clean and dry for better and safer performance.
- **MAINTENANCE:**
For your safety, service and maintenance should be performed regularly by a qualified technician or other competent person.
- **USE THE RIGHT TOOL FOR THE JOB.**
Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this unit was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this machine, and do not use this machine for a purpose for which it was not intended.



The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.

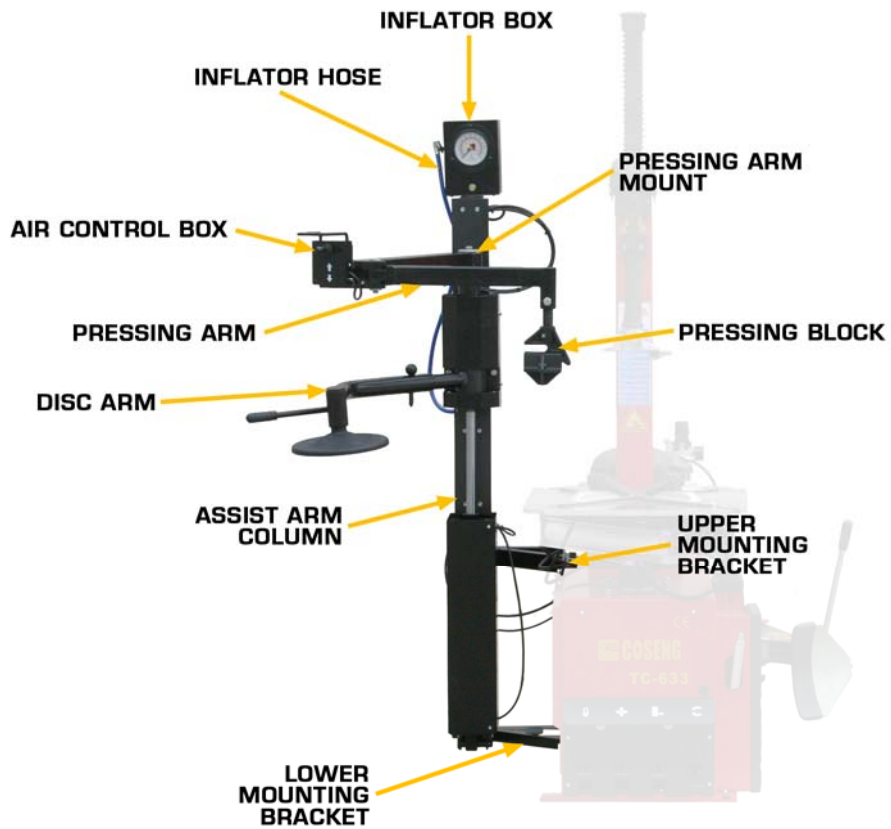
Once you have completed the assembly of your tire changer, you may proceed with the following steps to complete the RF Assist Arm assembly and installation. The Assist Arm column is extremely heavy (**approx. 275 lbs.**). It will take at least two people (or mechanical equipment) to lift the Assist Arm column out of the shipping container (**shipping weight approx. 300 lbs.**). You may need a cherry picker or forklift for this operation. Be careful not to set the Assist Arm column on any air lines or fittings (this will damage them).



STEP 1: Unwrap and verify that all of the components are present and undamaged:

Parts included:

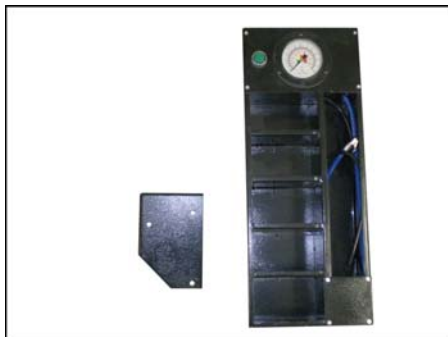
- A. Inflator Box
- B. Hose Tee Assembly
- C. Inflator Regulator Assembly (See the regulator installation guide, machines already equipped with this regulator will not use this part provided in the kit.)
- D. Hardware Kit
- E. Upper and Lower Arm Brackets
- F. Press Block
- G. Pressing Arm with Controls
- H. Disc Arm
- I. Assist Arm Column



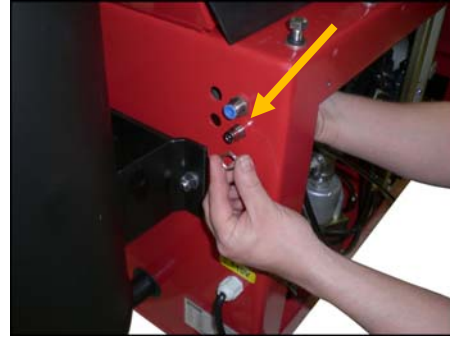
STEP 2: Remove the side cover



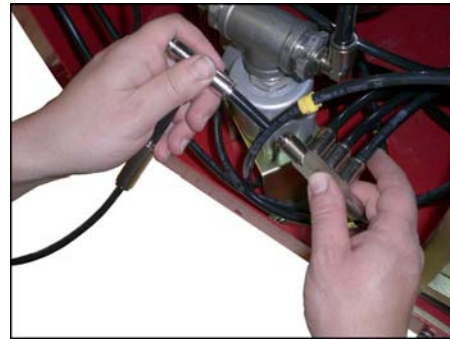
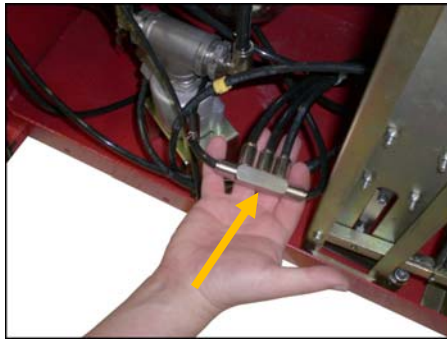
STEP 3: If your machine has an Inflator Box Assembly already installed, remove it and set it aside. (This applies to tire changers now in use)



STEP 4: Locate the Hose Tee Assembly. Remove the nut from the small fitting on the Tee, and insert the fitting through the hole located below the Air Regulator fitting (see arrow). Install and tighten the fitting.



STEP 5: Locate the 5-way union located inside the machine. Disconnect the air line indicated by the arrow. Press the short hose on the Hose Tee Assembly into the 5-way air union.

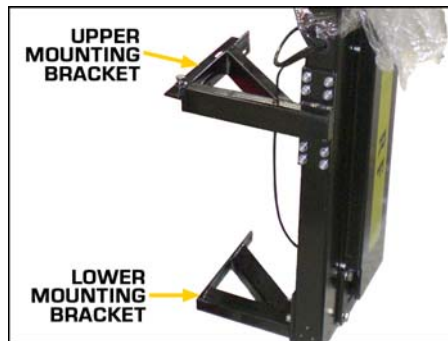


STEP 6: Press the line that was disconnected in step 5 into the opposite side of the Hose Tee Assembly's three way air union.



STEP 7: Bolt the Upper and Lower Arm Brackets to the Assist Arm Column as shown, using the 12 small Allen head screws and washers supplied in the hardware kit. Tighten with a 5mm Allen wrench.

CAUTION: The Assist Arm Column Assembly weights approx. 275 lbs.

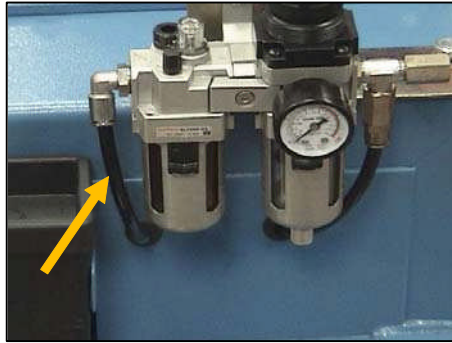


STEP 8: The Assist Arm will attach to the Tire Changer chassis as shown below. Remove the two hex bolts supplied with the machine (arrows). With another person's help, tip the Assist Arm Column upright, so that the brackets line up with the mounting holes. Be careful not to break the plastic air lines. Use the two hex head bolts and washers removed at the beginning of this step, and four matching bolts and washers from the hardware kit. Tighten all six bolts securely with a 16mm wrench.



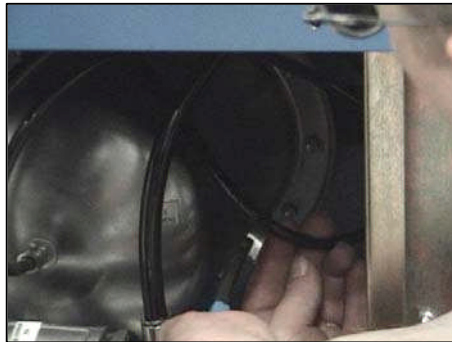
For TC589, TC589X, and TC421 and C211 Series Tire Changers:

STEP 1: Locate the 8mm air line connected to the lubricator (arrow). This line is the main air supply for the changer. Follow the line into the chassis. Have a helper “wiggle” the line so that you may easily locate it inside the chassis.

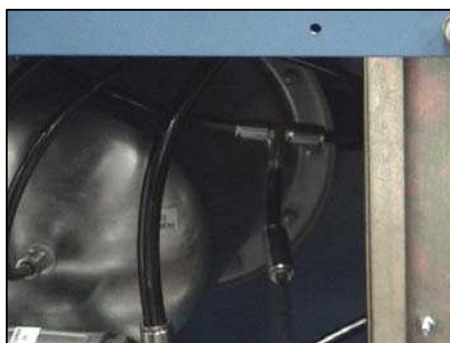
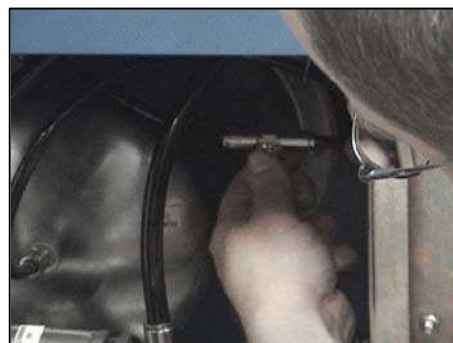


WARNING: Do not use the air line connected behind the regulator / filter assembly! This line supplies the bead blast system. Connecting to this line will cause damage to your Assist Arm and its controls. **Be certain** that you are using the correct air line before you continue.

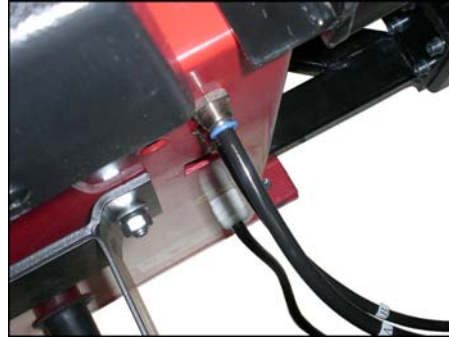
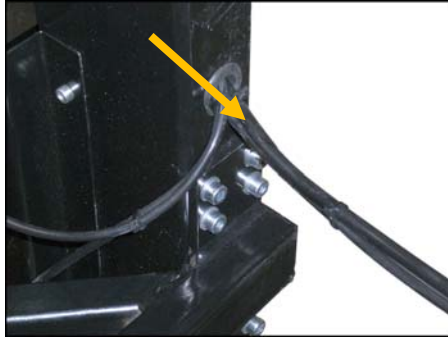
STEP 2: Cut the air line where it is easy to access. Make sure your cut is straight (not at an angle) and smooth. Cut the line only once.



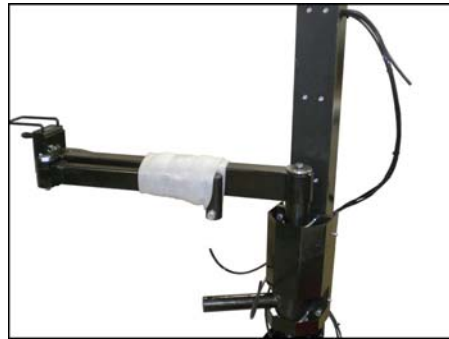
STEP 3: Locate the Hose Tee Assembly included with the Assist Arm. Connect the cut ends of the air supply line into the Hose Tee as shown. Press the hoses into the press lock fittings completely make certain they are tight.



STEP 9: Locate the two loose air lines coming out near the bottom of the Assist Arm Column (arrow). The larger line is 8 mm in diameter. The smaller line is 6 mm in diameter. Press the 8 mm line into the top press lock fitting on the rear of the changer. Press the 6 mm line into the lower fitting.



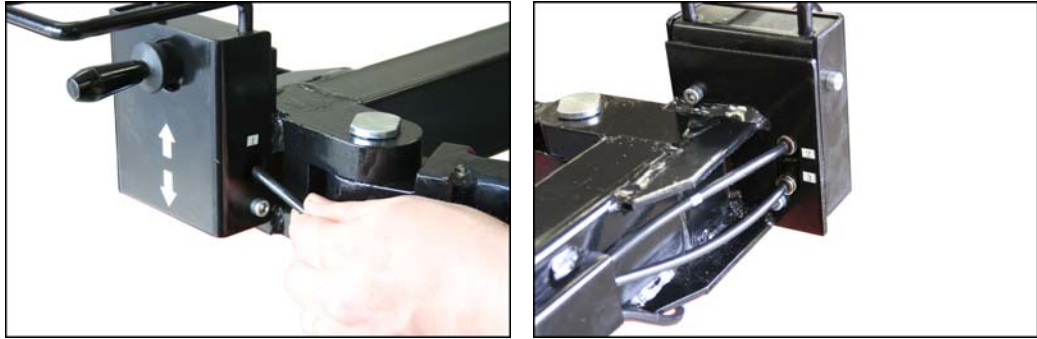
STEP 10: Remove the bolt and washer from the Pressing Arm mount located on the front of the Assist Arm Column. Place the Pressing Arm onto the mount and re-install the bolt and washer. Tighten the bolt securely.



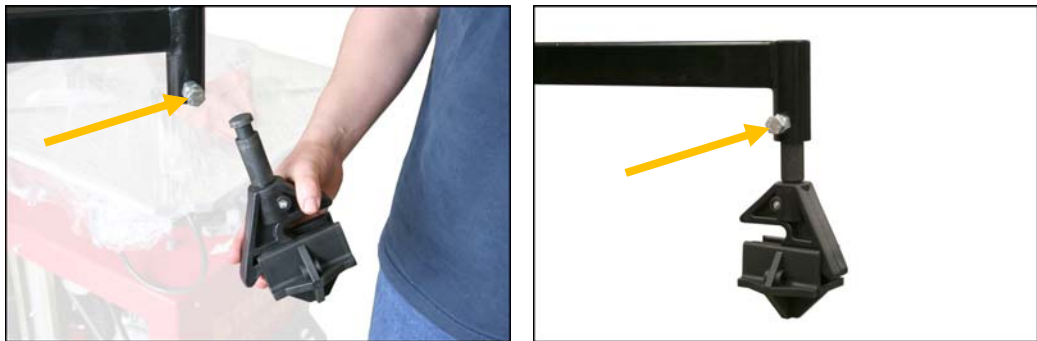
STEP 11: Locate the loose air lines coming out near the top of the Assist Arm column. Route the three longest lines (labeled 1, 2, and 3) through the square tube on the back of the Pressing Arm as shown above.



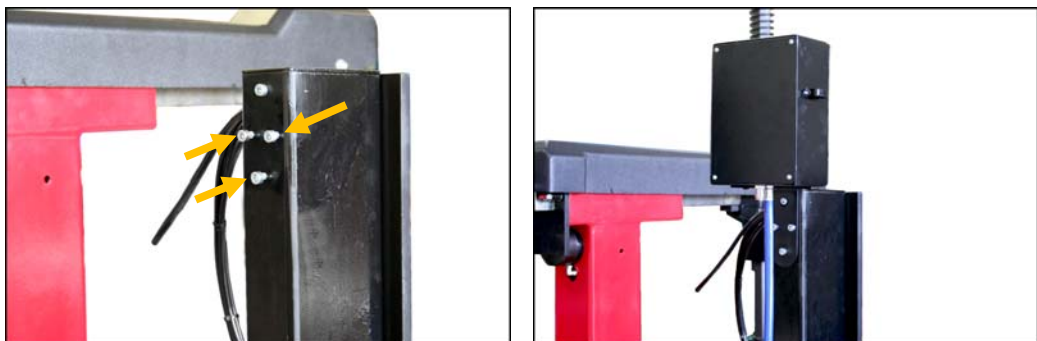
STEP 12: Press each of the three marked lines into the matching numbered port on the Assist Arm air control box.



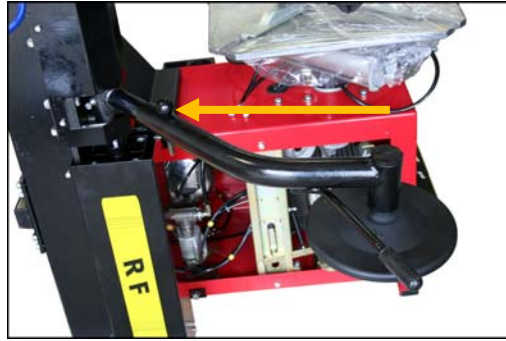
STEP 13: Insert the Press Block into the end of the Pressing Arm and tighten the locking bolt with a 16mm wrench. The Press Block must turn freely after the bolt is tightened.



STEP 14: Remove the three Allen head mounting screws at the top of the Assist Arm Column (top left photo) and set them aside. Position the Inflater Box as shown and re-install the screws. Tighten the screws with a 5mm Allen wrench (top right photo). Find the unused 8mm line coming from near the top of the Column, and press it into the fitting on the bottom of the Inflater Box (bottom photo). Re-install the side access cover.



STEP 15: Remove the locking pin located on the round tube at the front side of the Assist Arm Column (arrow). Position the Disk Arm as shown and re-install the locking pin. Re-install the machine side cover.



STEP 16: Congratulations! Your Tire Changer Assist Arm is complete. Remember to check all bolts and screws for tightness. Connect air and electrical service to the machine. Set the air regulator between 100 and 116psi, and check thoroughly for air leaks. Test each function and control on the machine as described in the owner's manual **BEFORE** attempting to change tires. **THE TIRE MACHINE SHOULD BE OFF OF THE SKID BEFORE OPERATING.**

For more information on the use of this machine, refer to the owner's manual.

