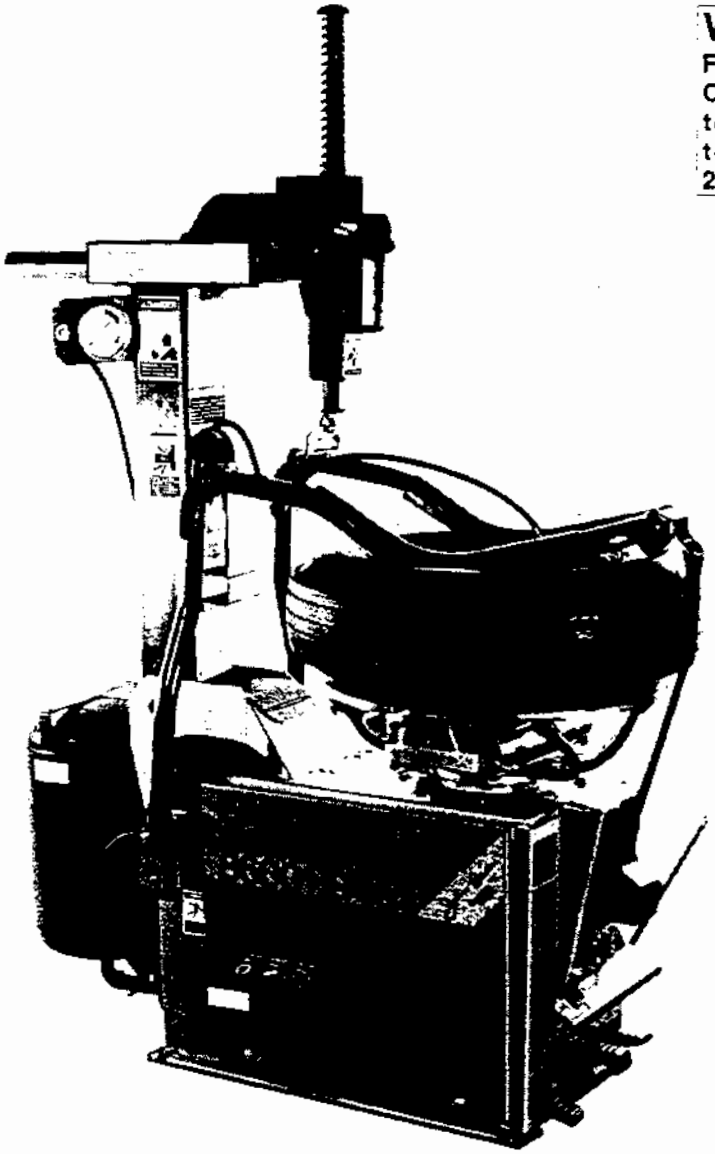
FMC

Operator's Manual

Model 8500/8600

Tire Changer

Form Number 4716-3



WARNING:
For Safety Purposes Use Only Rear Holes in base to secure Tire Changer to floor. Do Not use 2 Front holes in base.

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CONGRATULATIONS! You have purchased one of the finest tire changers on the market today, the FMC 8500/8600. This Tire Changer is designed for ease of operation, gentle handling of custom rims, safety, reliability, and speed. This combination of features means more profit and added versatility for your shop, enabling you to work with aluminum or magnesium alloy wheels without undue concern about breaking the customer's rim. Please read your manual thoroughly before operating the unit. Instructions on use, maintenance, and operational requirements of the machine are covered in your manual.

The FMC 8500/8600 requires both correct electrical supply and proper air pressure to function properly. Electrical requirements are 115VAC, single phase, 20 Amp circuit. Air pressure requirements are 120 - 170psi at the machine. Please have a qualified, licensed electrician perform necessary changes to the building wiring before you install and plug in the unit.

Failure to provide proper electrical supply AND GROUNDING will create shock hazards to the operator.

CONTROLS

Note the location of the foot controls for the 8500/8600. Time should be taken to familiarize yourself with the operation and function of all controls.

DO NOT PRESS THE INFLATOR PEDAL [4] WITHOUT A TIRE/WHEEL COMBINATION INSTALLED ON THE TURNTABLE OF THE MACHINE. THE BEAD BLAST MAY BE ACTIVATED, AND COULD BLOW DEBRIS INTO THE FACE OF THE OPERATOR OR THE FACE OF A BYSTANDER.

[1] - Rotates table in the direction selected by the FORWARD/REVERSE rocker switch on front of the cabinet.

[2] - Activates the bead breaker mechanism when pressed.

[3] - Activates the rim clamps. Pressing down moves the clamps inward. Releasing the pedal moves the clamps outward. Clamping may be done from inside or outside of the wheel.

[4] - Controls the inflator hose and the bead blast. Press down firmly for the bead seater air blast.

[5] - (8600 only) - controls head column position. Press down to bring the head forward - press and release to move the column to the rear.

[6] - Controls the selection of clockwise or counterclockwise rotation of the turntable when the turntable rotation pedal is pressed. **(NOT SHOWN)**

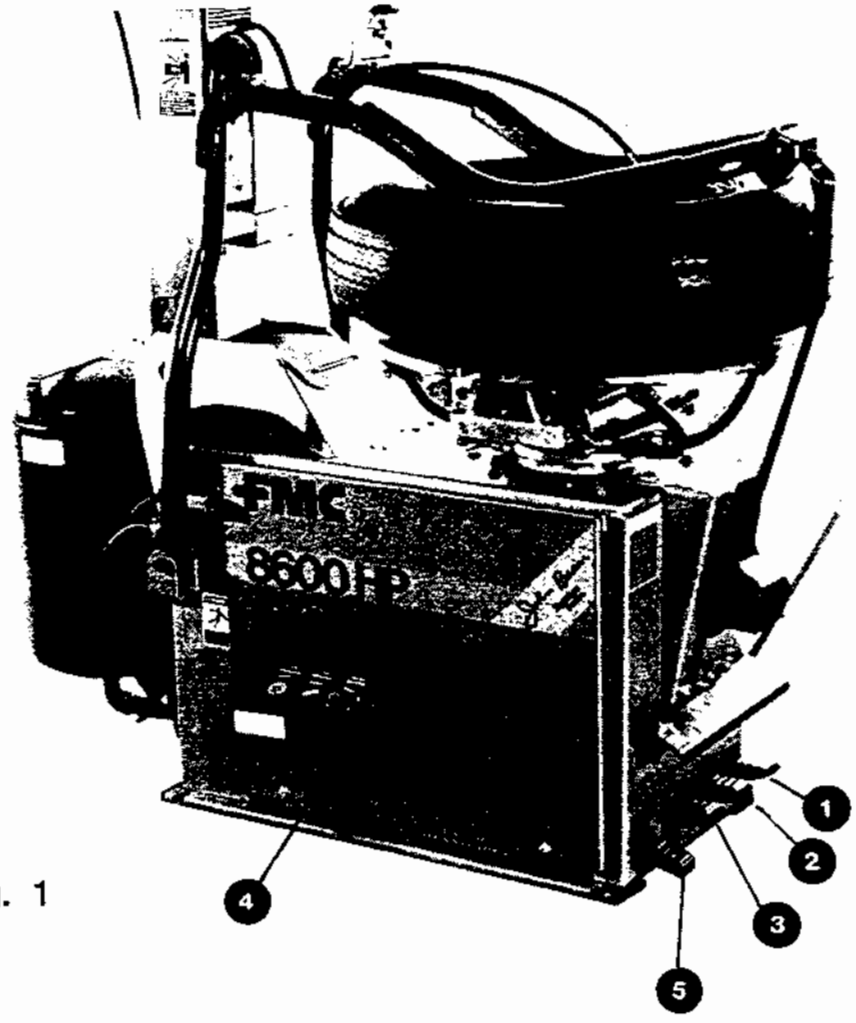

Fig. 1

SLIDE CONTROLS

The mount/demount head is locked using individual levers (8500) or by pressing (to move the slides) and releasing (to lock the slides in position) the button in the handle on the 8600 head. See Figure 2.

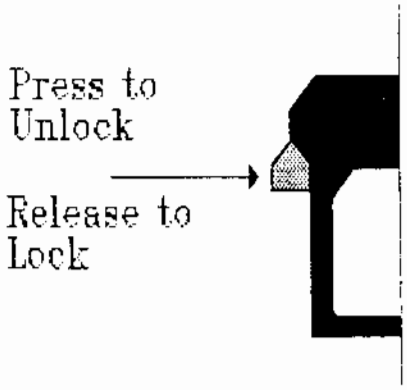

Fig. 2

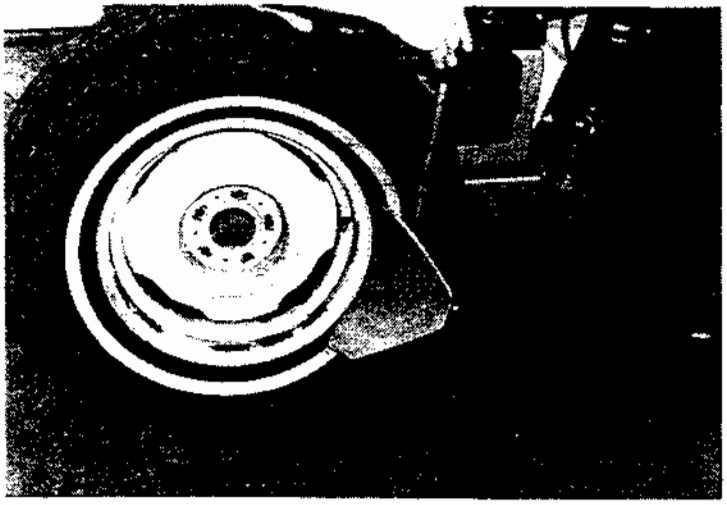

Fig. 3

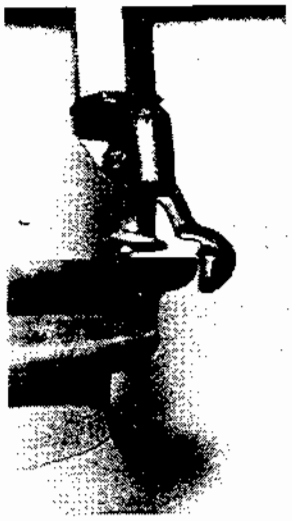

Fig. 4

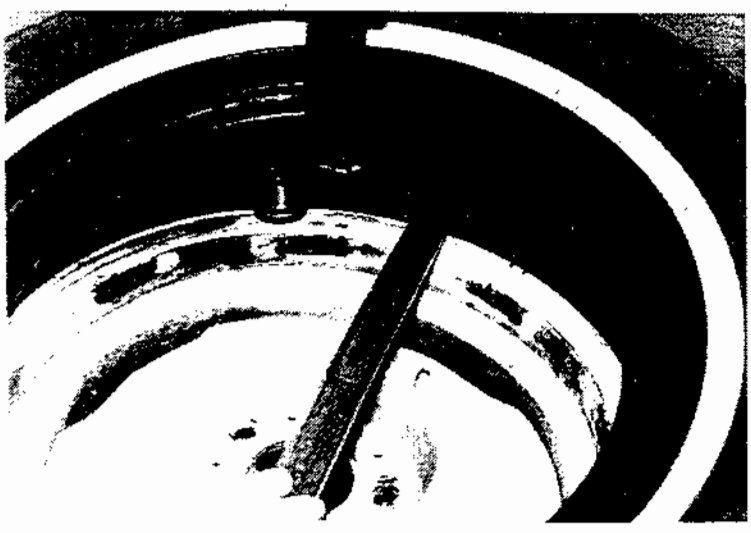

Fig. 5

BEAD LOOSENING/TIRE REMOVAL

1. Remove any wheel weights prior to loosening beads. Check for "tape weights" inside the rim. Remove the valve core and deflate the tire.

2. Roll the wheel & tire into position & loosen the bead using pedal [2]. You may have to loosen the bead in more than one place around the rim. After loosening the bead on one side, turn the wheel around and loosen the bead on the other side. See Figure 3. Apply rubber lubricant liberally to the bead area.

On CORVETTE wheels with the OPTIONAL LOW PRESSURE SENSOR installed, break the bead at points 90 degrees offset from the valve stem. Damage to the wheel will result if the bead is broken at any other point of the rim.

3. Set the rim clamps to the proper position - clamps IN to clamp the wheel from the inside, and OUT to clamp from the outside. Use Pedal [3].

4. Place the wheel (narrowest side up) on the table, and clamp in position. Hold the tire and wheel down while clamping .

5. Move the head column forward (manual on 8500 - with pedal [5] on the 8600). Set the mount/demount head in position as shown in Figure 4.

NOTE: Once the mount/demount head is positioned properly, matching wheels may be mounted with tires without having to reset the head. DO NOT leave the slides locked when changing rim diameters or widths, or damage to the machine or the wheels will occur.

Demount the tire as shown in Fig. 5, using the tire tool and the table rotation pedal [1]. Push down on the tire sidewall to move the bead into the drop center of the wheel and ease removal. Repeat the process for removing the lower bead.

6. Move the head back and remove the tire.

NOTE: Table rotation may be reversed at any time by changing the FORWARD/REVERSE rocker switch to REVERSE setting and pressing the Rotation Pedal [1].

TIRE MOUNTING

- Inspect the wheel for rust/damage. Clean or replace as necessary.
- Lubricate the tire to be mounted on the wheel. Move the tower to its forward (upright) position. Position the lower bead of the tire so the bead rides on the left side of the head, and below the right hand portion of the head. Select FORWARD on the FORWARD/REVERSE switch and press down on Rotation Pedal [1] to mount the tire.
- Install the tube (if used).
- Mount the upper bead of the tire following the directions above.

Bead seating is the most dangerous part of mounting a tire. It is possible to mount tires that are 1/2" smaller than the rim that they are mounted on. While these beads will seal, it is IMPOSSIBLE TO GET THEM TO SEAT IN THEIR PROPER POSITION WITHOUT EXPLODING!!!

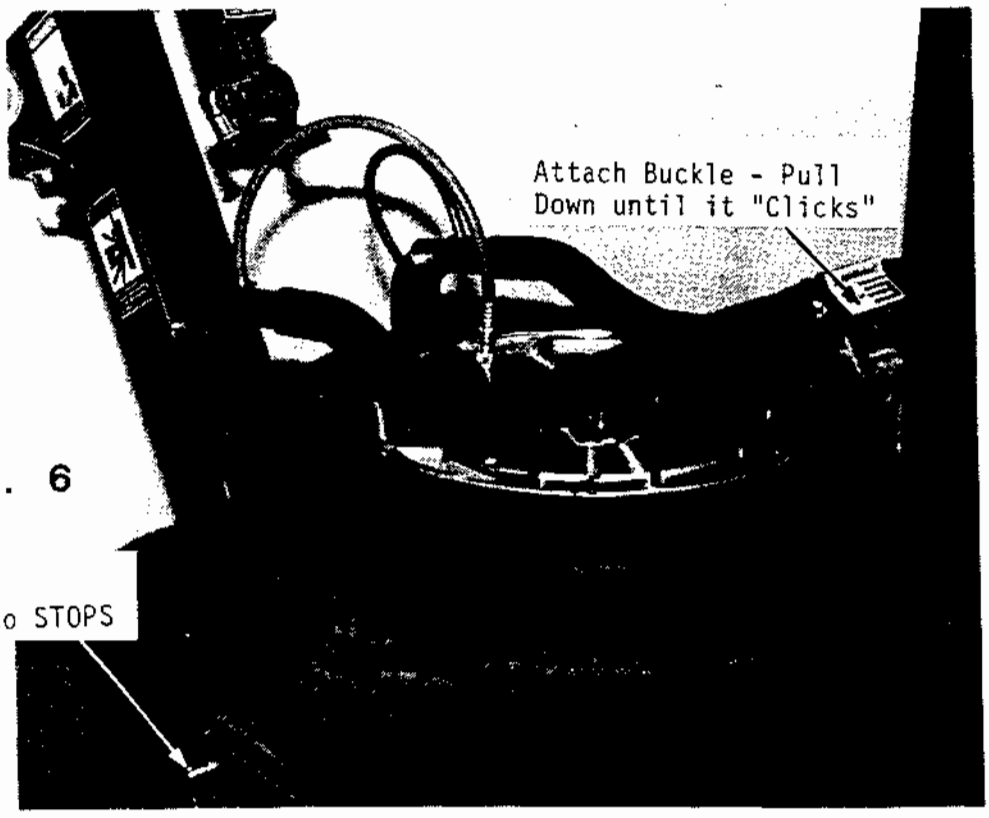

Fig. 6

INFLATION

- Ensure that both beads of the tire are properly lubricated.
- 16" and larger wheels should be inflated with rim clamps loosened and the tire resting on the table.
- Wheels smaller lthan 16" should be inflated with the rim clamps fastened.

Pull the restraint arms forward over the tire and rim (Fig.6). Attach the safety strap to the restraint arm, and pull the buckle down until it "clicks" in place. Please note that with FMC's unique safety system, air pressure to the tire is interrupted unless the safety buckle and strap are in place.

Always check the CONDITION of the SAFETY BELT before using this machine. If WEAR is evident, or DAMAGE to the BELT or its STITCHING is seen; call your FMC SERVICE REPRESENTATIVE IMMEDIATELY. Replace belts with genuine FMC replacement belts ONLY. The tire changer must never be used with a WORN belt or with any belt other than a genuine FMC belt.

Attach the air chuck to the valve stem (valve core removed). Press pedal [4] to inflate the tire. During inflation, a series of "clicks" will be heard, indicating that the pressure limiting and sensing devices within the machine are working properly. IF THESE CLICKS SHOULD CEASE AT ANY TIME DURING INFLATION (except when the tire pressure is in excess of 55psi), CALL YOUR FMC REPRESENTATIVE IMMEDIATELY AND HAVE THE MACHINE REPAIRED. If you are unsure of who your representative is, call 1-800-FMC-TEAM, and the factory will arrange for a service call for you.

The FMC Safety Inflation System checks pressure in the tire being inflated every 4 seconds. Watch the air pressure guage, and ensure that recommended inflation pressures in the tire are not exceeded. If the pressure should exceed recommended levels, bleed the excess air out using the bleeder valve located next to the air guage.

Please note the FMC 8500/8600 is capable of pressurizing tires to approximately 60psi. Should higher inflation pressures be desired, remove the tire from the machine after seating the bead, and inflate it in an approved safety cage.

⚠WARNING

DO NOT USE ANY EXTERNAL AIR HOSES when mounting and inflating tires on this machine. Use ONLY the Inflator Hose BUILT INTO THE UNIT.

MAINTENANCE

- **Clean and lubricate all moving metal parts. Clean plastics using soap and water.**

- Drain water regularly from the filter/lubricator unit at (A) (in Fig. 7). Check the oil level in the lubricator regularly. When adding oil to the lubricator, disconnect the air supply first, remove the fill screw (B), and add oil as needed. Make sure seals are in place when replacing the cap.

- Periodically check the lubricator action. An oil drop in the bubble glass at (G) every 4 - 5 operations of the bead breaker indicates that the proper amount of oil is being dispersed in the system. If necessary, adjust the unit using screw (R) to correct the oil flow.

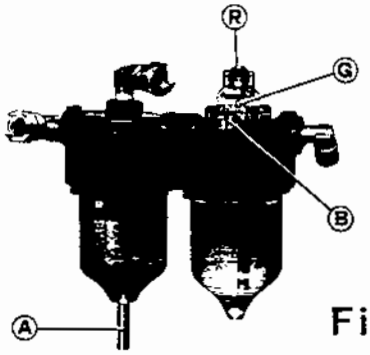

Fig. 7

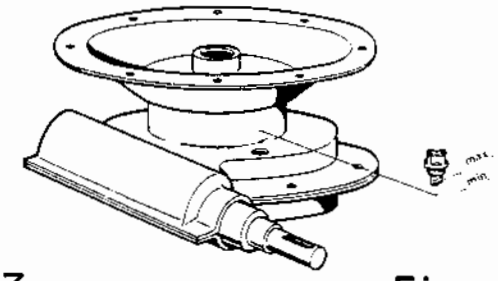

Fig. 8

- Check the oil level in the gearbox regularly (Fig. 8). Remove the side cover of the machine and unscrew the transmission filler cap. If it becomes necessary to add oil, use one of the following:

MOBIL GEAR 626

SHELL-OMALA 68

SUN EP 1050

GULF EP LUBE HD68

Oils to be used in the filter/lubricator unit of the changer are as follows:

MOBIL DTE LIGHT (10-20 grade)

GULF (CHEVRON) HARMONY 32 (No 32AW)

NOTE: no additives may be present in lubricants for this system. Lubricants CAN have anti-foaming agents added.

OPTIONAL ACCESSORIES

Options for use with the FMC 8500/8600 include 8" wheel adapters. See your FMC Representative for details and pricing.

FOR SERVICE AND INFORMATION ON YOUR NEW 8500/8600 TIRE CHANGER, CALL 1-800-FMC-TEAM or YOUR LOCAL FMC REPRESENTATIVE.

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