



X95

Tire Changer



Please read this manual before using your machine

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Safety Instructions

- All operators should be properly trained.
- All operators should not wear loose clothing or jewelry. Loose clothing or jewelry could become entangled with the wheel or other moving parts on machine and can cause serious injury.
- All operators should wear protective eye gear.
- The Tire Changer contains electrical components and should be kept indoors and in a dry environment. Exposure to water can cause damage and is not covered under the warranty.
- Maintain proper PSI and oil levels to ensure a longer life of machine and components.
- Do not attempt to crush or flatten rims with bead breaker.
- Follow all warning labels on machine.

Assembly

Un-package and remove all plastic wrapping from tire changer.

Your tire changer should include all of the following parts.







Part Numer	Description
X95-01	Air Distributor
X95-02	Cover for Hex Bar Lock
X95-03	Oiler/Water Separator with protection plate
X95-04	Cap for Spring on Hex Bar
X95-05	Lock Plate for Hex Bar
X95-06	Air Tank
X95-07	Spring for Hex Bar
X95-08	Screw for adjusting Swing Arm
X95-09	Tool Box/Inflation Box
X95-10	Plastic Demount Head w/metal adapter and bolts
X95-11	Spare Seal Kit bag, keep in a safe place in case you need to replace seals in your
X95-12	Lube Brush
X95-13	Plastic Rim Clamp Covers
X95-14	Tire Iron
X95-15	Plastic Inserts for Metal Demount Head
X95-16	4 bolts for mounting swing arm tower
X95-17	2 bolts for mounting Tool Box

1. Open Side access panel. You will find one additional loose hose inside machine.
2. Before installing swing arm tower on machine you should install X95-05 lock plate for hex bar. See below picture. Push hexagon bar down until it is flush/even with top of swing arm. Put X95-05 lock plate in place and push hex bar through lock plate. Pull lock handle to secure hexagon bar before installing swing arm tower.



3. Install inflation hose from foot pedal valve to tool box. Disconnect hose from foot pedal valve on far left. See below picture.



4. Feed hose through hole in side of swing arm tower and out of hole in bottom of swing arm tower. See below picture.



OR



5. Install swing arm tower on machine using 4 bolts X95-16. Feed hose through hole on body of machine while mounting tower. Caution! The powder coating is very slick. You should have 2 people to assist with this process in order to not cause injury or damage to yourself or the machine.



6. Reconnect hose to foot pedal valve as shown in picture on step 3.

7. Install hex bar spring X95-07 on hex bar and install cap for spring X95-04 on hex bar.



8. Install tool box to side of swing arm tower. Connect hose to open fitting next to inflation hose. See below picture



9. Install air tank using 2 bolts. Ensure air tank is positioned as high as possible before tightening bolts. See below pictures.



10. Install air distributor on air tank as shown in picture. Two large lines route from top of air distributor directly out top on machine to turn table. Single line routes from bottom of air distributor to inflation pedal valve.



11. Install oiler and water separator on back of machine. There is one hose with no number that is already connected to a foot pedal valve. Feed this hose through hole on back of machine and connect to fitting on oiler. See below picture.



12. Line 1 connects to fitting between oiler and water separator and then connects to the air tank pop off fitting.



13. Fill oiler with air tool oil before using machine. Bottom half of oiler screws off to be filled with air tool oil.



Maintenance

1. Keep the Jaws and 5-way valves clean.
2. Keep the Jaw slides properly lubricated.
3. Check the slide guide to jaw bolts tight under table.
4. Disconnect air from machine when not in use.
5. Keep oiler filled with air tool oil. Bottom half of oiler unscrews and can be filled with oil. See below picture.



6. Empty water separator every day. Twist and pull yellow knob at bottom of water separator to empty. Be sure to twist knob back to closed position after water has evacuated. See below picture.





Part number	Description
RAA-009	Bottom assist arm
RAA-010	Middle swing arm mounts to top swing arm
RAA-011	Main assist arm column with pre-connected top swing arm and up down controls

7. Keep FRL clean and check that oiler is full every day.
8. Do not use input pressure greater than 145 PSI or 10bar.
9. Do not set output pressure greater than 115 PSI or 8bar.
10. Follow all safety labels on machine.

If you purchased the Assist arm for right side of machine, follow these steps for installation.



Part number	Description
RAA-002	Assist arm mounting rod
RAA-003	Round plastic plate
RAA-004	Assist arm sidewall push
RAA-005	Assist arm cone
RAA-006	Sidewall rolling guide
RAA-007	Base mounting bolts for use with part RAA-001 and RAA-11
RAA-008	Assist arm mounting rod bolts for use with part RAA-002

1. Assist arm assembly begins by mounting RAA-011 (main assist arm column) to main side of tire changer body using RAA-007 (mounting bolts).



2. Position RAA-011 main assist arm in position as shown in above picture. Use RAA-007 mounting bolts to bolt RAA-011 to main machine body.



3. Connect air hose from arm to step down fitting and run hose into side of machine.



4. Follow hose from oiler inside machine and splice hose. Use T fitting that was provided and connect hose from assist arm inside machine.



5. Now you can continue with assembly of the assist arm. First place top assist arm (arm with up/down controls that is pre-installed to main assist arm) and RAA-009 bottom assist arm in place as shown below. Then place RAA-002 assist arm mounting rod through both assist arms.



6. Then use 2 of RAA-008 mounting bolts in top 2 holes of RAA-002.



7. Now use up/down switch to raise preinstalled rod up and inside RAA-002 as shown below. Then use the other RAA-008 mounting bolt to finish connection.



8. Now install remaining assist arm parts as shown in below pictures.



5. OPERATING INSTRUCTION

5-1 To Preliminary Operating Tests

1. Connect the tire changer to its air and electrical supply sources, and allow adequate time for the compressed air system to reach the recommended 110-PSI.
2. Depress the Reverse Pedal (3, Fig. 2) down, the turntable should turn in a clockwise direction. Pull the pedal up and the turntable should turn anticlockwise.
3. Press the bead breaker pedal (1, Fig. 2) to activate the paddle. When the pedal is released, the pedal should return to its original position.
4. Press the jaw clamp pedal (2, Fig. 2) once to open the four jaws. Press the pedal again to close the jaws.

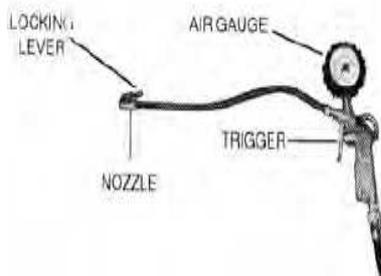
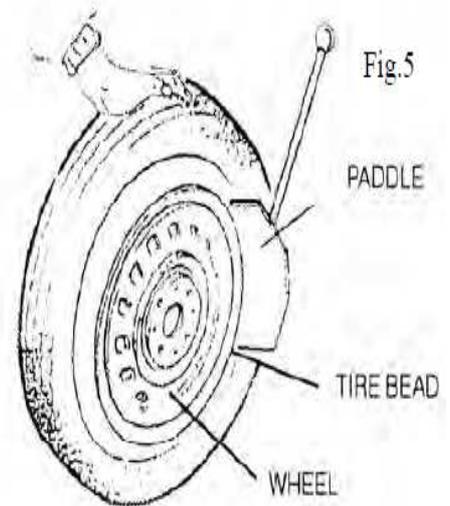


Fig.4

Press the trigger on the air gauge to release air from the nozzle. (Fig.4)

5-2 To Break Tire Bead

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel nuts.
2. Close the turntable clamping jaws completely.
3. Open the bead breaker arm by hand by pushing it towards the outside. Place the wheel up against the Rubber Buffer. Bring the Paddle against the bead about 10mm from the edge of the rim. (see Fig.5)
4. Depress the bead breaker pedal fully to activate the paddle. Release pressure on the bead breaker pedal. When the blade has reached the end of its travel and / or when the tire bead is broken.
5. Rotate the tire slightly, and repeat the procedure around the entire circumference of the wheel rim until the bead is completely detached from the rim. (Fig.5)
6. Repeat the above steps for the other side of the wheel / tire.



5-3 To Remove The Tire From The Wheel

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel weights.
2. Spread tire grease (or a similar lubricant) liberally on the complete circumference of the broken tire bead.

NOTE: Failure to lubricate the tire bead may cause serious damage to the bead.

3. Place the wheel / tire evenly on the turntable.(4, Fig.2)
4. To lock the wheel on the turntable, proceed as follows according to the wheel size:

RIM from 10" to 18":

Position the four jaws (5, Fig.2) according to the reference mark located on the turntable by depressing the jaw clamp pedal (2, Fig.2) halfway down.

Place the wheel on the four jaws and, while keeping the wheel rim pressed down, depress the jaw clamp pedal as far as it will go.

Check to make sure the wheel firmly secured by the jaws.

Rim from 12" to 20":

Position the four jaws so that they are completely closed.

Place the wheel on the four jaws and depress the jaw clamp pedal to open the jaws, thereby locking the wheel rim in place.

Check to make sure the wheel is firmly secured by the jaws.

5. Lower the tools shaft (7, Fig.2) until the mounting head (6, Fig.2) rests next to the wheel rim and on top of the tire. Then, lock the tools shaft in position, using the block support.
6. Insert the lever between the tire bead and the front section of the mounting head. (Fig.6)

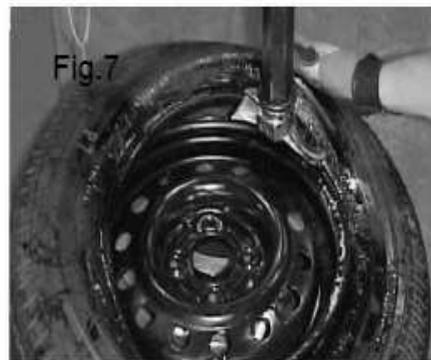


Fig.6

7. Move the tire bead over the mounting head by pulling upward on the reverse pedal.(3, Fig.2)
8. NOTE: To avoid damaging the inner tube (if there is one), it is recommended to perform this step with the inner tube valve stem positioned about 1" to the right of the mounting head.
9. With the lever (14, Fig.2) held in position, rotate the turntable in a clockwise direction by fully depressing the reverse pedal. Continue until the tire is completely separated from the wheel rim.
10. Remove the inner tube (if there is one), and repeat the above steps for the other side of the wheel / tire.

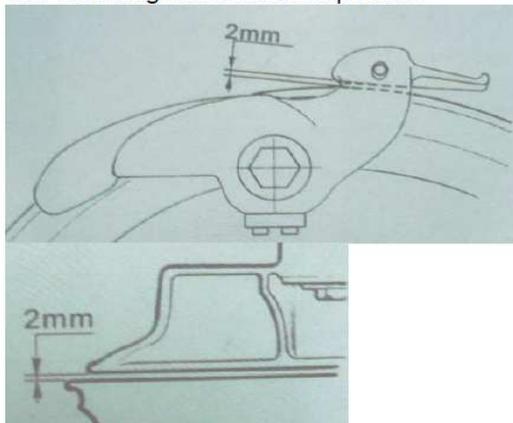
5-4 To Mount The Tire Onto The Wheel Rim

1. CAUTION: Before carrying out this procedure, deflate the tire fully, and remove all the wheel weights.
2. Spread tire grease (or a similar lubricant) liberally on the complete circumference of the tire bead to avoid damage to the tire bead to avoid damage to the tire and to facilitate the mounting procedure.
3. Lock the wheel rim, using the inner part of the jaws.(5, Fig.2)
4. NOTE: When you are working with wheel rims of the same size, it is not always necessary to lock and unlock the tools shaft. Instead, move the swinging arm (8, Fig.2) sideways with the tools shaft locked.(7, Fig.2)
5. Move the tire so that the bead passes below the front section of the mounting head and is brought up against the edge of the rear section of the mounting head. (Fig.7)



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6. Keep the tire bead pressed down into the wheel rim channel with your hands. Then, depress the reverse pedal to rotate the turntable clockwise. Continue this process throughout the entire circumference of the wheel and tire.
 7. Insert the inner tube (if there is one).
 8. Repeat the steps above the mount the other side of the tire.

The mounting head standard position



5-5 To Inflate The Tire

1. CAUTION: A burst tire can cause serious injury or even death to the operator. Always make sure the wheel rim and the tire are of the same size. Check the condition of the tire, and make sure it has no defects before beginning the inflation process. Keep your hands and body as far away from the tire as possible. Inflate the tire with brief jets of air, checking the air pressure frequently. Never inflate a tire above and or below the air pressure recommended by the tire manufacturer.
2. To inflate the tire, attach the air gauge nozzle (See Fig.4) to the tire valve stem with the locking lever in the "UP" position. Check the condition of the tire, and make sure the nozzle is pressed down completely over the threads of the valve stem.
3. When the air gauge nozzle is firmly in place, press the locking lever down to lock onto the valve stem.
4. Remember to inflate the tire with brief jets of air, checking the air pressure frequently. Once the proper air pressure has been reached, disconnect the nozzle from the valve stem and screw a valve cap onto the stem. (Fig.8)

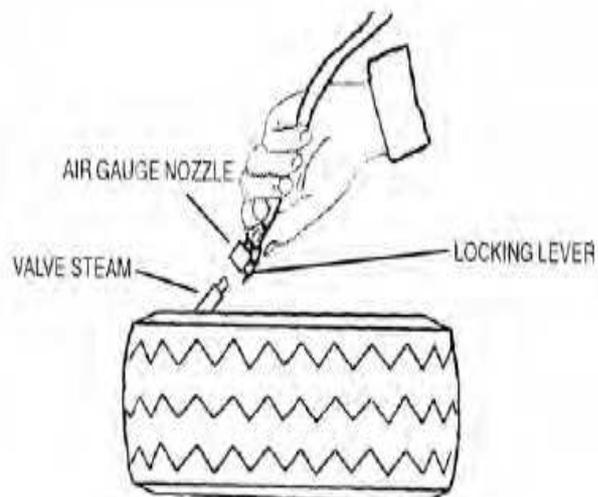


Fig. 8

6.CLEANING AND MAINTAENANCE

