SAFETY INFORMATION

For your safety, read this manual thoroughly before operating the EEWH312A Tire Changer

The EEWH312A Tire Changers are intended for use by properly trained automotive technicians. The safety messages presented in this section and throughout the manual are reminders to the operator to exercise extreme care when changing tires with these products.

There are many variations in procedures, techniques, tools, and parts for changing tires, as well as the skill of the individual doing the work. Because of the vast number of wheel and tire applications and potential uses of the product, the manufacturer cannot possibly anticipate or provide advice or safety messages to cover every situation. It is the automotive technician’s responsibility to be knowledgeable of the wheels and tires being changed. It is essential to use proper service methods and change tires in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area or the equipment or vehicle being serviced.

It is assumed that, prior to using the EEWH312A Tire Changers, the operator has a thorough understanding of the wheels and tires being changed. In addition, it is assumed he has a thorough knowledge of the operation and safety features of the rack, lift, or floor jack being utilized, and has the proper hand and power tools necessary to service the vehicle in a safe manner.

Before using the EEWH312A Tire Changers, always refer to and follow the safety messages and service procedures provided by the manufacturers of the equipment being used and the vehicle being serviced.

⚠️ IMPORTANT !! SAVE THESE INSTRUCTIONS -- DO NOT DISCARD !!
SAFETY INSTRUCTIONS

IMPORTANT!! SAVE THESE INSTRUCTIONS

Overinflated tires or tires mounted on the wrong sized rims can explode producing hazardous flying debris.

- Read Operator’s Manual before using this Tire Changer.
- Never mount tire on rim with different sized diameter.
- Never exceed maximum inflation pressure listed on tire sidewall.
- Use safety restraint arm to hold wheel in place while inflating.
  (If equipped)
- Always use attached air hose to inflate tires.

Explosion tires can cause death or serious injury.

Risk of electrical shock.

- Do not operate equipment with a damaged power cord or if the equipment has been dropped or damaged, until it has been examined by a qualified service person.
- If an extension cord is necessary, a cord with a current rating equal to or greater than that of the equipment should be used. Cords rated for less current than the equipment can overheat.
- Unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
- Do not expose the equipment to rain. Do not use on wet surfaces.
- Plug unit into correct power supply.
- Do not remove or bypass grounding pin.

Contact with high voltages can cause death or serious injury.

Risk of electrical shock. High voltages are present within the base unit.

- There are no user serviceable items within the unit.
- Service on the unit must be performed by qualified personnel.
- Do not open any part of the base cabinet.
- Unplug the unit before servicing.

Contact with high voltages can cause death or serious injury.
Warning !
Risk of crushing. Stand clear of bead breaker arm during operation.
- Read and understand the operation instructions before using this tire changer.
- Become familiar with all controls before proceeding with operation.
- Stand away from the bead breaker arm when in operation.
- Apply air to breaker in bursts if necessary to control arm depth.
- Keep all persons clear of tire changer.
Contact with moving parts could cause injury.

Warning !
Risk of pinching or crushing hands and fingers when mounting and demounting.
- Read and understand the operation instructions before using this tire changer.
- Keep hands and fingers clear of rim edge during demounting and mounting process.
- Keep hands and fingers clear of mount/demount head during operation.
- Keep hands and other body parts away from moving surfaces.
- Do not use tools other than those supplied with tire changer.
- Do not bypass any safety features.
- Use proper tire lubricant or paste to prevent tire binding.
Contact with moving parts could cause injury.

Warning
Risk of eye injury. Flying debris, dirt, and fluids may be discharged during bead seating and inflation process.
- Remove any debris from tire tread, wheel surfaces.
- Remove excess tire lubricant before inflating.
- Wear approved safety glasses during mount and demount procedures.
Debris, dirt, and fluids can cause serious eye injury.

Caution
Risk of injury. Tools may break or slip if improperly used or maintained.
- Read and understand the operation instructions before using this tire changer.
- Use only the mount-demount tire tool supplied with the tire changer.
- Frequently inspect, clean, and lubricate (if recommended) where designated.
- Follow procedures when instructed in this manual.
Tools that break or slip can cause injury.

IMPORTANT !!  SAVE THESE INSTRUCTIONS -- DO NOT DISCARD !!
DANGER

Tires and Rims that are not the same diameter are mismatched.

- NEVER attempt to mount or inflate any tire and rim that are mismatched.
- ALWAYS check to see that tire and rim diameters are the same.

A mismatched tire and rim could explode causing death or serious personal injury.

WARNING

Over-pressurized tires can explode causing flying debris.

- Read and understand Operator’s Manual before operating.
- Keep bystanders away from work area.
- ALWAYS wear Safety Goggles.
- ALWAYS check to see that Tire and Rim diameters are the same.
- NEVER attempt to mount or inflate any Tire and Rim with different diameters.
- Inspect tires, NEVER inflate tires that are damaged, rotten or worn.
- NEVER inflate ‘Split Rim Wheels’ on this tire changer, remove them and use only an approved safety inflation cage designed for this purpose.
- Lock turntable Clamp on inside of rim before attempting to inflate tire.
  NOTE: On some wheels the clamping jaws (when used on the inside of rim) may leave indentations.
- Use approved tire bead lubricant before removing or installing tire on rim.
- Position the Optional “Safety Restraint Arm” over the wheel to hold it to the turntable while inflating if so equipped.
- If a tire explodes on this tire changer, STOP using it until the “Safety Restraint Arm” has been replaced, which must be done even if no damage is seen.
- NEVER place head or body over a tire during inflation process.
- Use short bursts of air to seat tire beads, check tire air pressure frequently. NEVER exceed tire manufacturer’s pressure limits.
- NEVER attempt to bypass or alter the built in air pressure limiter. Only inflate tire with air hose supplied with tire changer. NEVER use shop inflation hose to inflate a tire.
- Tire Changer must be anchored to concrete floor if equipped with an optional “Safety Restraint Arm”

Expanding Tires can cause serious injury.
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1.0 INTRODUCTION

Congratulations on purchasing the Snap-on EEWH312A air-electric tire changer. This tire changer is designed for ease of operation, safe handling of rims, 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 damaging customer’s rims. With a minimum of maintenance and care your Snap-on EEWH312A Tire Changer will provide many years of trouble-free operation.

Please read this manual thoroughly before operating the unit. Instructions on use, maintenance and operational requirements of the machine are covered in this manual.

1.1 SPECIFICATIONS

Operation temperature range    +41/+122 F (+5/50 C)
EEWH312A  Air-Electric tire changer for car, light commercial vehicle and motorcycle tires designed for one-piece rims. Dimensions based on OEM tires and wheels only.

Air pressure required    140-170 psi (8.5 cfm)  
Electrical Requirements    115v 60hz 1ph 20A  
Bead breaker force    3300 lbs (kN 15)  
Bead Breaker Positions    3  
   Bead Breaker position #1    3.5” to 13”  
   Bead Breaker position #2    4” to 14.5”  
   Bead Breaker position #3    4.5” to 15.5”  
Turn Table Operation    Single Speed  
Turn Table Torque (lb - ft)    738  
Turn Table Speed (RPM)    7 CW  
Max. tire diameter    40” (mm 1016)  
Max Tire Width    13” (330mm)  
Max. wheel width    12” (305mm)  
Rim diameter outside clamping    10”-20”(254-508mm)  
Rim diameter inside clamping    12”-22”(305-558mm)  
Motor 110 VAC 60Hz    1 Hp (kw .75)  
Machine weight    442 lbs(200kg)  
Shipping Weight    530 lbs (204 kg)  
Overall demensions    68” x 41” x 49”  
Warranty    2 years

1.2 NOMENCLATURE

Before installing and using the Snap-on EEWH312A Tire Changer it is suggested that you become familiar with the nomenclature of the machine’s components.

1. Vertical slide  
2. Swing arm  
3. Swing Arm Adjustment knob  
4. Lock lever  
5. Mount/demount head  
6. Tower or column  
7. Turntable  
8. Clamping Jaws and Bead Seating Jets  
9. Bead breaker arm  
10. Bead breaker blade  
11. Bead breaker pads  
12. Foot pedal controls  
13. Inflation gauge  
14. Bead seater/inflator pedal  
15. Inflation hose  
16. Paste bucket  
17. Mount/Demount Tool
**TURNTABLE & CABINET FEATURES**

**EEWH312A**

- **ROUND TURNTABLE PLATFORM** - Provides easy access to tires lower bead during the tire changing process.
- **INTEGRATED BEAD SEATING JETS** - Air inflation jets are integrated into the turntable clamping jaws to insure full bead seating force directly into the tire cavity regardless of tire diameter.
- **TWIN CYLINDER CLAMPING POWER** - Two 2.45” clamping cylinders provide uniform clamping pressure throughout the stroke (regardless of rim sizes) as well as providing 25% more clamping power than most single clamping cylinder tire changers. Additionally, two smaller cylinders reduce the critical turntable to cabinet distance, reducing the stress on the transmission.

**WHEEL CLAMPS**

- **UNIQUE SIX POINT CONTACT CLAMPS**
  Provide better gripping capability regardless of dirt and moisture.
- **REDUCED ANGLE CLAMPS**
  Increases clamping contact area with rim insuring no slippage.
- **NYLON INSERT SOFT TOUCH CLAMPS**
  Single sided nylon insert in the clamping jaws provides non-metal touch in critical customer visible areas.

- **IN-COMING AIR PRESSURE GAUGE**
  Ergonomically located air gauge allows easy monitoring of incoming air pressure.
- **INTEGRATED PRESSURE LIMITER**
  Integrated safety pressure limiter stops air flow once tire pressure has reached approx. 55 PSI preventing accidental tire over-inflation.

**MOUNT/DEMOUNT ARM ASSEMBLY**

- **NON-SCRATCH NYLON INSERT** - Integrated into the mount/demount head is a replaceable scratch resistant nylon insert protecting against accidental rim contact.

**SAFETY RESTRAINT ARM (Optional)**

- **TIRE/RIM ASSEMBLY RESTRAINT** - Safety Restraint Arm positively restrains tire and rim assembly to the tire machine during the inflation process reducing potential for injury caused by the unlikely event of catastrophic tire or rim failure.
- **SIMPLE SWING ARM DESIGN** - SRA arm easily swings to the left when not in use allowing the technician to quickly and safely perform the inflation process without disrupting the tire changing procedure.
- **GRAVITY LOCK** - SRA lock mechanism operates without any mechanical cam system eliminating the possibility of system deterioration or misadjustment from mechanical wear.
- **POSITIONING SAFETY INTERLOCK SWITCH** - Integrated switch insures that SRA arm is centered on the tire/rim assembly before the inflation process can begin.
- **ANTI-ROTATION LOCK** - Prevents SRA from rotating during inflation process.
- **TIRE/RIM ASSEMBLY RESTRAINT** - Gravity Lock, Safety Interlock Switch - Anti-Rotation Lock - If equipped with this option.

**CONSTRUCTION DESIGNED FOR DURABILITY**

- **RUST PROOF VALVES AND CYLINDERS** - Critical bead breaking cylinder is lined with rust-proof polyfiber liner for years of rust free operation. Non-lined cylinders will pit causing bead breaker power loss.
- **LIFETIME LUBRICATED POLYMER VALVES** - Critical foot valves fabricated from glass/fiber self lubricating material providing years of maintenance free operation.
- **WATER SEPARATOR AND AUTOMATIC OILER** - Lubricates all air used for machine operation, does not lubricate air used for tire inflation, as do some competitive models.
- **HIGH TORQUE 1HP MOTOR** - Industrial strength high torque turntable drive motor eliminates tire remount stalling on low profile high performance tires (UL/CSA approved).
1.3 Floor and Height Space Requirements

Height:
- min 59” (1498mm)
- max 68” (1727mm)

min: 31” (790mm)
max 41” (1040mm)

min: 35” (890mm)
max 49” (1250mm)

Figure 2
# 1.4 ACCESSORIES AND CONSUMABLES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Status</th>
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<tbody>
<tr>
<td>EAA0351G93A</td>
<td>+6” Clamping Adaptors (4 each)</td>
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<tr>
<td>EAA0351G94A</td>
<td>+8” ATV Adaptors (4 each)</td>
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<tr>
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<td>EAA0304G84A</td>
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<tr>
<td>EAA0332G35A</td>
<td>Motorcycle Mount/Dismount Head</td>
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<tr>
<td>EAA0247G20A</td>
<td>Composite Mount/Demount Head</td>
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<tr>
<td>ST4025966</td>
<td>Bead depressing roller, for quick installation on mounting head.</td>
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<tr>
<td>EAA0247G15A</td>
<td>Protective Insert for Mount/Dismount Head (10 Each)</td>
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<tr>
<td>EAA0351G90A</td>
<td>Jaw Protectors, Covers Jaw - Long (4 each)</td>
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<tr>
<td>5-14126A</td>
<td>Paste Brush</td>
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</tr>
<tr>
<td>8-03229A</td>
<td>Paste Bucket</td>
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</tr>
<tr>
<td>EAA0329G99A</td>
<td>Inflation Hose Assembly</td>
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</tr>
<tr>
<td>EAA0247G02A</td>
<td>Tire Mounting Bar</td>
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<tr>
<td>EAA0247G04A</td>
<td>Protective Cover (For tire lever EAA0247G02A)</td>
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</tr>
<tr>
<td>EAA0304G14A</td>
<td>Wave Tire Tool</td>
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</tr>
<tr>
<td>EAA0247G14A</td>
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<td>EAA0247G70A</td>
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<td>EAA0270J11A</td>
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<tr>
<td>EAA0329G33B</td>
<td>Pneumatic Bead Assist</td>
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<tr>
<td>EAA0304G52A</td>
<td>Plastic Rim Protector, Clip-on Type (3 each)</td>
<td>optional</td>
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</table>
1.5 GENERAL CAUTIONS

A. DURING THE USE AND MAINTENANCE OF THE MACHINE IT IS MANDATORY TO COMPLY WITH ALL LAWS AND REGULATIONS FOR ACCIDENT PREVENTION.

B. THE ELECTRICAL POWER SOURCE MUST HAVE A GROUND CABLE AND THE GROUND CABLE OF THE MACHINE MUST BE CONNECTED TO THE GROUND CABLE OF THE POWER SOURCE.

C. BEFORE ANY MAINTENANCE OR REPAIRS ARE ACCOMPLISHED THE MACHINE MUST BE DISCONNECTED FROM THE AIR AND ELECTRICAL SUPPLY.

D. NEVER WEAR TIES, CHAINS OR OTHER LOOSE ARTICLES WHEN USING, MAINTAINING OR REPAIRING THE MACHINE. LONG HAIR IS ALSO DANGEROUS AND SHOULD BE KEPT UNDER A HAT. THE USER MUST WEAR PROPER SAFETY ATTIRE - GLOVES, SAFETY SHOES AND GLASSES.

2.0 INSTALLATION

Your new Snap-on EEWH312A Tire Changer requires a simple installation procedure requiring only a few moments. Follow these instructions carefully to insure proper and safe operation.

The Tire Changer is delivered mounted to a wooden skid. Remove tire changer from its mounts carefully, taking care to avoid any back strain.

Place Changer where proper operation will be unobstructed to all sides. Install the machine in a covered and dry place.

2.0.1 Anchoring

Once placed in the desired location the tire changer must be bolted to the floor using only the rear two mounting holes.

Tire Changer should be anchored to concrete floor for increased safety.

2.1 ELECTRICAL INSTALLATION

WARNING

BUILDING ELECTRICAL INSTALLATION MUST BE MADE BY A LICENSED ELECTRICIAN.

Check that the electrical specifications of the power source are the same of the machine. The machine uses 115v, 60 hz, single phase 20 amp source. Electric specifications are clearly marked on a label on the right side of the machine.

DANGER

FAILURE TO PROVIDE PROPER ELECTRICAL SUPPLY AND GROUNDING WILL CREATE A SHOCK HAZARD TO THE OPERATOR.
2.2 AIR INSTALLATION

⚠️ WARNING
THE AIR INSTALLATION MUST BE MADE ONLY BY QUALIFIED PERSONNEL.

⚠️ WARNING
EXCESSIVE AIR PRESSURE CAN SERIOUSLY INJURE PERSONNEL AND DAMAGE THE MACHINE.

Ensure that the line pressure is within the limits required by the machine. If the pressure exceeds 170 psi (12 bar) it is mandatory to install a pressure regulator before the air inlet of the machine.

If the air pressure is lower than the minimum required of 110 psi (8 bar) the clamping power of the turntable and the bead breaker power may be insufficient for certain tires and substantially reduces tire changer performance.

It is suggested that the air supply be equipped with a water separator/dryer type modification for maximum performance.

After ensuring all the above proceed as follows:

A. Connect the machine to the air supply with a rubber hose (rated for the pressure) with an internal diameter of no less than 1/2” (12.5mm).

⚠️ WARNING!
BEFORE CONNECTING THE MACHINE TO THE AIR SUPPLY BE SURE ALL PERSONNEL ARE CLEAR OF THE MACHINE AND NO ITEMS ARE LEFT ON THE TURNTABLE.

B. It is recommended that an air valve shut-off be installed between the shop air supply and the tire changer in case of air line or filter failure.

C. Should you install any optional accessories, please refer to the relevant instructions.

D. Ensure the functional ability of the air lubricator by ensuring that the glass site bowl is filled with air lubricant.
3.0 CONTROLS

Before operating the machine, take the time to familiarize yourself with the operation and function of all the controls.

A Press down and release the first pedal (1) from the left: the jaws of the turntable will retract. Do it again: the jaws will expand. If you press the pedal prior to the end of the stroke and release, the jaws may be stopped in any position.

B Open the bead breaker arm. Press down and hold the second pedal (2) from the left: by doing this you operate the bead breaker blade and the arm will move towards the machine. Release the pedal: the bead breaker blade will retract.

C Press down the first pedal (3) from the right: the turntable turns clockwise.

D Lower the Lock Lever (4) to unlock the vertical slide, lift the Lock Lever to lock.

E Turn Swing Arm Adjustment Knob (5) for positioning mount/demount head slightly away from rim diameter

F Press bead-seater pedal on left side of the machine (6) half way down: air will come out from inflation hose end.

G Press bead-seater pedal (6) all the way down swiftly to get air blast from the inflator jets in the clamping jaws. Air simultaneously comes out of inflator hose.

ATTENTION!
WHEN OPERATING THE BEAD SEATER IT IS MANDATORY TO WEAR SAFETY GLASSES TO PROTECT EYES.

Optional Safety Restraint Arm

H Safety Restraint Arm swings to center of the turntable.

I Lift upward on the restraint positioning knob to position over tire/wheel assembly for inflation, at the same time push down on the Anti-rotation Lock Arm to release lock. You may now swing the safety restraint arm to position on the center of the wheel. Lower the restraint until the rubber pad on the restraint disc is resting on the rim center. The SRA is a gravity lock which will automatically lock if any force other than the restraint position knob is lifted. You are now ready for the inflation process.

NOTE: the air supply will not function until the safety arm is centered over the turntable.
4.0 MOUNTING AND DEMOUNTING PRECAUTIONS

IMPORTANT!
BEFORE MOUNTING A TIRE ON A RIM, PAY ATTENTION TO THE FOLLOWING:
A. THE RIM MUST BE CLEAN AND IN GOOD CONDITION: IF NECESSARY CLEAN IT AFTER REMOVING ALL WHEEL-WEIGHTS INCLUDING ‘TAPE WEIGHTS’ INSIDE THE RIM.
B. THE TIRE MUST BE CLEAN AND DRY, WITHOUT ANY DAMAGE TO THE BEAD.
C. REPLACE THE RUBBER VALVE STEM WITH A NEW ONE OR REPLACE THE ‘O’ RING IF THE VALVE STEM IS MADE OF METAL.
D. IF THE TIRE REQUIRES A TUBE, MAKE SURE THE TUBE IS DRY AND IN GOOD CONDITION.
E. LUBRICATION IS NECESSARY TO MOUNT THE TIRE CORRECTLY AND GET A PROPER CENTERING. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.
F. MAKE SURE THE TIRE IS THE CORRECT SIZE FOR THE RIM.

4.1 DEMOUNTING TUBELESS TIRES

A. Remove all wheel-weights from the rim. Remove the valve stem or valve stem core and deflate the tire (Fig.11).

B. Break both beads.
Hold open the Bead Breaker, roll the tire/rim into the Breaker area (Fig. 12). Ensure that the Tire/rim assembly is against the rubber breaker pads on the side of the machine. Make certain that the bead breaker blade is not over the top of any portion of the rim. Now activate the bead breaker pedal. As soon as the bead dislodges from the rim, release the breaker foot pedal. It may be necessary to rotate the tire 90 degrees and repeat the above procedure to dislodge all beads.

Pay extra attention during this operation as it is easy to mistakenly keep your foot on the bead breaking pedal too long. This could potentially result in bead or rim damage (Fig.12)

NOTICE!
ON VEHICLES WITH TPMS SENSORS, BREAK THE BEAD AT 90 DEGREES OFFSET FROM THE VALVE STEM. DAMAGE TO THE WHEEL AND/OR SENSOR WILL RESULT IF THE BEAD IS BROKEN AT ANY OTHER POINT ON THE RIM.

C. Set the rim clamps to the proper position: retract clamps to clamp the wheel from the outside and expand clamps to clamp from the inside.
When clamping small wheels (14” or smaller) from the outside, set the clamps at a diameter nearly equal to the rim diameter, before placing the wheel on the clamps. This will help avoid the possibility of pinching the tire as the clamps retract.

NOTICE!
TO MINIMIZE THE RISK OF SCRATCHING ALLOY OR CLEAR COATED RIMS, THESE RIMS SHOULD BE CLAMPED FROM THE OUTSIDE. USING OPTIONAL PLASTIC RIM PROTECTION WILL MINIMIZE RIM DAMAGE WHEN CLAMPING ON THE INSIDE.
D. Liberally lubricate both beads. Place the wheel WITH DROP CENTER UP (Fig.13a) on the turntable, and clamp in position. Hold the tire and wheel down while clamping.

E. Gently position the mount/demount head in contact with rim edge, now manually push the lock lever up and lock it into place. The tool automatically moves vertically up and away from the rim edge. Turn the swing arm adjustment knob until the mount/demount head moves horizontally away from the rim flange by approximately 1/16" (2mm): this is necessary to avoid any rim contact during the changing process. (Fig.14).

F. Note that some OEM wheels and many aftermarket wheels require the wheel is clamped face down. The tire bead can only be removed over the inner rim flange. Take care to use correct reverse mount clamping from the outside with rim edge protectors installed.

NOTE:
EVERY MACHINE IS EQUIPPED WITH SEVERAL REPLACEMENT PLASTIC INSERTS (INSIDE STANDARD EQUIPMENT PACK). THE PLASTIC INSERTS WILL HELP AVOID DAMAGE FROM ACCIDENTAL CONTACT BETWEEN THE MOUNT/DEMOUNT HEAD AND THE RIM. THE PLASTIC INSERTS WILL NEED TO BE PERIODICALLY REPLACED.

MAINTENANCE NOTE:
IF THE MOUNT/DEMOUNT HEAD NYLON INSERTS ARE WEARING OUT PREMATURELY, THE CAUSE IS THE OPERATORS FAILURE TO CORRECTLY SET THE SWING ARM ADJUSTMENT KNOB, CAUSING THE INSERT TO INCORRECTLY CONTACT THE RIM.

NOTE:
ONCE THE MOUNT/DEMOUNT HEAD IS POSITIONED PROPERLY, IDENTICAL WHEELS MAY BE CHANGED WITHOUT HAVING TO RESET THE HEAD.

NOTE:
ON VEHICLES WITH TPMS SENSORS, LOCATE THE SENSOR AWAY FROM THE BEAD OF THE DROP CENTER. ALSO MAKE SURE THE TIRE LEVER DOES NOT CONTACT THE SENSOR DURING THE MOUNT OR DEMOUNT PROCESS. DAMAGE TO THE WHEEL AND/OR SENSOR WILL RESULT IF THE BEAD IS BROKEN AT ANY OTHER POINT ON THE RIM.

F. Insert the mount/demount tool under the bead and over the support of the mount/demount head. Lift the bead onto the mount/demount head. To make this operation easier, insure that the bead of the tire, directly across from the mount/demount head, is in the drop center of the wheel. Push the tire into the drop center with your hand or optional bead depressor tool if necessary.

If desired, the mount/demount tool can be removed after lifting the bead onto the mount/demount head (Fig.15), or you may remove the tool after the bead has been removed.
G. Rotate the turntable clockwise (pedal down) and, at the same time, push down on the tire sidewall to move the bead into the drop center of the rim (Fig. 16).

H. Repeat the process for removing the lower bead. This time, lift the bead opposite to the mount/demount head to keep it in the drop center (Fig. 17).

Move the swing arm aside and remove the tire.
4.2 MOUNTING TUBELESS TIRES

A. Clean entire rim surface (Fig.18).

Liberally lubricate both beads of the tire with approved tire lubricant (Fig.19).

**NOTICE!**
THESE LUBRICATION OPERATIONS ARE NECESSARY TO MOUNT THE TIRE CORRECTLY AND GET A PROPER CENTERING ON THE RIM. BE SURE YOU ARE USING APPROVED LUBRICANT ONLY.

**DANGER!!** Keep hands and fingers clear of mount-demount head during operation.
NOTICE!
SOME TIRES HAVE A COLOR DOT THAT IS TO BE KEPT ON THE OUTSIDE OF THE WHEEL AND IS TO BE ALIGNED WITH THE VALVE STEM. IF THIS IS THE CASE BE SURE TO ATTAIN PROPER ALIGNMENT PRIOR TO TIRE INFLATION.

NOTICE !
ON VEHICLES WITH TPMS SENSORS, LOCATE THE SENSOR (USUALLY WITH STEM) 90 DEGREES FROM THE MOUNT/DISMOUNT HEAD. DAMAGE TO THE WHEEL AND/OR SENSOR WILL RESULT IF THE BEAD CONTACTS THE TPMS SENSOR DURING THE MOUNT PROCEDURE.

B. Lock the rim to the turntable and rotate it so that the valve is at the 2 o'clock position. Place the tire to be mounted on the rim. Swing the mount/demount arm in so that the mount/demount head is in the working position. (Fig. 20) Engage the lower bead OVER the mount/demount head and UNDER the mounting finger of the mount/demount head (Fig. 20). Turn the wheel clockwise (right pedal down) while simultaneously pushing the tire down into the drop center, opposite to the mount/demount head.

C. Mount the upper bead following the directions in section B. With low profile tires the bead holding clamp (optional) can help to prevent the top bead from prematurely seating during the mounting cycle.

NOTE: Bead Holding Clamp must be removed prior to coming full circle and impacting the mount/demount head.

4.3 INFLATION OF TUBELESS TIRES.
Make sure that both beads are properly lubricated.

WARNING
Bead seating is the most dangerous part of mounting a tire. Never stand over tire when attempting to seat beads or during inflation. It is possible to incorrectly mount tires that are 1/2" smaller in diameter 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. Explosion of a tire may cause severe injury or death.

Inflate tire according to manufacturers recommendations.

WARNING
Before inflating a tire, check the condition of the tire and the rim.

Never exceed the maximum pressure allowed by the tire manufacturer.

The rim must be un-clamped when inflating.

The operator must stand clear from the wheel when inflating, and pressure must be monitored frequently to avoid over inflation.

Due to unusual configurations or the stacking of tires the inflation process may be difficult. To assist with this problem the Snap-on EEWH312A and some other Tire Changers are equipped with bead seater jets integrated into the table top.

To utilize the bead seater proceed as follows:
A. Position the optional safety restraint arm (if equipped) over center of wheel assembly. The safety arm is lifted upward by grasping the safety restraint position knob and lifting upward while simultaneously depressing the anti-rotation lock arm. Swing safety arm assembly so the circular retainer is centered over the rim. Note that air pressure to the inflation hose will not flow until the arm is centered over the rim.

B. If possible lock the wheel from inside. Outside locking reduces efficiency.

C. Connect the inflation hose to the valve stem.
D. Lift the tire with both hands so that the upper bead is sealed to the rim edge (Fig. 21).

⚠️ DANGER
NEVER STAND OVER TIRE WHEN ATTEMPTING TO SEAT BEADS OR DURING INFLATION

![Fig. 22]

E. Press the inflation pedal down swiftly to the end of its travel to activate the bead seater jets. (#6 Fig. 10)
The top bead is already sealed by the lifting motion. Therefore, the air from the bead seater jets will enter the tire impacting on the top sidewall and rebound into the bottom sidewall driving it into place and creating a seal.

⚠️ WARNING
WHEN OPERATING THE BEAD SEATER, ALWAYS WEAR SAFETY GLASSES TO AVOID INJURY TO EYES.

F. Install valve core, if removed. Complete inflation to manufacturers suggested pressure. Never exceed pressure listed on tire sidewall.

⚠️ WARNING
TIRE INFLATION - the tire changer inflation hose is limited to 51 psi (3.5 BAR). Never inflate the tire while on the tire changer with EXTERNAL SHOP AIR. Only use external shop air inflation when a tire is in an approved OSHA inflation cage. FAILURE TO FOLLOW THIS PROCEDURE CAN RESULT IN INJURY OR DEATH.
5.0 DEMOUNTING TUBE-TYPE TIRES

A. For breaking the bead operate as described for the tubeless tires in section 4.1.A to 4.1.F.

In this case the valve is part of the tube.

**NOTICE!**
**BE CAREFUL NOT TO DAMAGE THE TUBE DURING THE BEAD-BREAKING OPERATION. THE VALVE SHOULD BE OPPOSITE TO THE BLADE OF THE BEAD BREAKER.**

B. To demount the first bead, place the valve at 2 o’clock position.

**NOTICE!**
**BE CAREFUL NOT TO CATCH THE TUBE WITH THE MOUNT/DEMOUNT TOOL, WHEN LIFTING THE BEAD ON THE MOUNTING FINGER.**

After demounting the first bead carefully, remove the tube before demounting the second bead, as described in section 4.1.

5.1 MOUNTING TUBE-TYPE TIRES

A. Perform steps described in section 4.2.A.
**DO NOT** lubricate the tube. Talc can be used to assist with tire positioning if necessary.

B. Confirm that the tube is the correct size for the tire to be mounted. (Fig.23).

C. Inflate the tube slightly: if held with the index finger it should bend a little (Fig.24).

D. Mount the first bead as described in section 4.2.B. Put the tube inside the tire and connect the inflation air line to the tube valve to hold the tube in place. (Fig.25). Mount the top bead following the directions above.

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Fig.23

Fig.24

Fig.25
5.2 INFLATING TUBE-TYPE TIRES.

Make sure that both beads are properly lubricated.

⚠️ DANGER

BEAD SEATING IS THE MOST DANGEROUS PART OF MOUNTING A TIRE.
NEVER STAND OVER TIRE WHEN ATTEMPTING TO SEAT BEADS OR DURING INFLATION
IT IS POSSIBLE TO MOUNT TIRES THAT ARE 1/2” SMALLER IN DIAMETER 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.
EXPLOSION OF A TIRE MAY CAUSE SEVERE INJURY OR DEATH.

⚠️ DANGER

BEFORE INFLATING A TIRE, CHECK THE CONDITION OF THE TIRE AND THE RIM.
NEVER EXCEED THE MAXIMUM PRESSURE ALLOWED BY THE TIRE MANUFACTURER.

THE RIM MUST BE UNCLAMPED WHEN INFLATING.
THE OPERATOR MUST STAND CLEAR FROM THE WHEEL WHEN INFLATING, AND PRESSURE MUST BE MONITORED FREQUENTLY TO AVOID OVER INFLATION.

To inflate the tire unlock the rim and start inflating while pressing the valve towards the inside (this is necessary to avoid air pockets forming between tube and the tire) (Fig. 26).

Ensure that the tire is correctly centered on the rim and complete inflation.

6.0 MOUNTING AND DEMOUNTING MOTORCYCLE TIRES

To mount and demount motorcycle tires it is necessary to utilize the optional four motorcycle adaptors (part number EAA0351G92A).
The bead-breaking, mounting and demounting technique is the same as per the car, tubeless or tube-type tires.

NOTICE!

MOTORCYCLE RIMS MUST ALWAYS BE CLAMPED FROM THE OUTSIDE. AIR PRESSURE MUST NOT EXCEED 110 PSI (8 BAR) WHEN CLAMPING MOTORCYCLE RIMS.
7.0 MAINTENANCE

WARNING

BEFORE STARTING ANY MAINTENANCE OPERATION ENSURE THAT THE MACHINE IS DISCONNECTED FROM THE AIR AND ELECTRIC SUPPLY.

A. Periodically clean the vertical hexagonal rod with nonflammable liquid detergent. After this immediately lubricate with a light lubricating oil (Fig.27).

B. Periodically clean all moving metal parts and lubricate with oil.

C. Weekly clean the teeth of the clamps (1) with a wire brush, check the nylon clamping jaw insert and (2) replace if worn (Fig.28).

D. Inspect and replace as necessary the plastic mount/demount head insert. The insert is held in place by a small hex head set-screw. Remove the screw, replace insert and re-install set screw.

E. Lubricate piston rods of turntable air cylinders with oil as needed.

F. Periodically wash all plastic parts with cold water and soap or window cleaner.

G. Check the bead breaker pads. Replace if worn.

H. Discharge water from air filter every day!! (Do this by turning the knob "B" clockwise and upward. Water will automatically be discharged.) (see ‘B’ at Fig.29).

I. Check the automatic air lubricator oil level weekly. When adding oil to the lubricator, disconnect the air supply first, remove the fill screw ‘A’, and add oil as needed. Make sure seals are in place when replacing the cap.

NOTICE!

USE ONLY OILS FOR AIR DEVICES, DO NOT USE BRAKE FLUID OR OTHER NON SUGGESTED LUBRICANTS.

Suggested oil for the filter/lubricator unit:

Snap-on air tool oil IM1PT
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