



Company Name: _____ Job Site Location: _____

Date: _____ Start Time: _____ Finish Time: _____ Foreman/Supervisor: _____

Topic 246: Tire Balancer and Impact Wrench

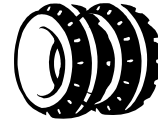
Introduction: Work in an automotive garage can be hazardous. Following are safety guidelines for tire balancer and impact wrench ops:
Tire balancer: New workers need to be trained on the proper operating procedures of the tire balancer. Hazards include flying debris, metal projectiles, back injuries, clothing and hair entanglement, and pinch points that can crush fingers.

- **All tools** must be used only for the purpose for which they are designed or approved.
- **Make sure** the area around the tire balancer is clean and free of debris. Stay alert to pinch points during operations.
- **Keep** all unauthorized traffic out of the work area.
- **Make sure** there are no loose tools, rags, or other hazards that may fall onto or impede the balancer while it is running.
- **Do not** try to balance any over or under inflated tires. Inflate tires to the manufacturer's specifications.
- **Inspect** the tread and sidewalls for damage (e.g. broken belts, bubbled sidewalls, slices or gashes).
- **Check** for imbedded stones, metal, or other debris. Make sure the rim and tire are clean and free of dried mud and dirt.
- **Use** proper lifting techniques for lifting the tire and wheel assembly onto and off the balancer. Bend at the knees. Use both hands.
- **Remember;** use the proper diameter backing hubs for the rim.
- **Make sure** the centering cones are the proper diameter. The centering cone tension spring must be used.
- **Tighten** the locking nut to keep the tire secure.
- **Enter** the rim width, tire size, and distance from bead to balancer on the control panel before balancing operations begin.
- **Hand spin** the tire to make sure the rim is not bent or warped. Ensure the tire and wheel assembly is properly mounted and secure.
- **Do not** operate the balancer without the wheel cover in place. Never disable the cover lockout switch.
- **Do not** lift the safety cover until the spin has come to a complete stop.
- **Always** install the weights fully seated against the rim bead. Use rim protectors for mags and alloy rims.
- **Remember,** make sure that the area where adhesive type weights are attached is clean, smooth, and free of debris.



Impact wrenches: Use only impact approved sockets, swivels, and extensions. Unapproved sockets and swivels can shatter and throw shrapnel causing injury to the operator and workers in the immediate vicinity. Keep all unauthorized traffic out of the work area.

- **Impact** wrenches must have a locking device for retaining the socket. The wrench must be disconnected from the air supply before repairs are performed. Make sure that the O-ring and retainer ring is in place and not missing.
- **Always** inspect for damage before use or after an accidental dropping. Repair or replace immediately.
- **Do not** engage the tool unless it is on the work being performed, unless the sockets, swivels, or extensions have been removed.
- **Make sure** that both male and female couplers are clean and in good working condition.
- **Always** use caution when tightening with the air ratchet. Use only impact approved swivels.
- **Ratchets** can backlash causing hands and fingers to be pinned.
- **Remember** to always oil and lube all air tools daily as per manufacturer's specifications.
- **An air supply line** must be regulated to maintain the pressure at not more than the tool rating.
- **Do not** exceed the manufacturer's recommended rating. Hose connections should have a positive-locking action.
- **Inspect** all hoses for leaks, kinks, defects, and damage. Repair or replace immediately.
- **Keep** the work area and walkways clear of hoses that could create tripping hazards.
- **When** an air line bursts or breaks free from the coupler, do not try to catch the flailing end of the hose. Crimp the hose or disconnect from the air supply. Air-line hose sections must be securely fastened together.



Personal protective equipment (PPE): Wear safety glasses or goggles. Wear gloves when checking the rim and tire assembly before mounting. Gloves protect the hands from sharp metal and splinters. Hearing protection may be needed (ear plugs or muffs). Keep shirts tucked in. Do not wear loose clothing. Keep long hair tied back and under a cap when necessary. Do not wear loose jewelry.

Conclusion: Communicate with your fellow workers. Let them know where you are at all times. Utilize these safety guidelines.

Work Site Review

Work-Site Hazards and Safety Suggestions: _____

Personnel Safety Violations: _____

Employee Signatures: _____
 (My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.)

Foreman/Supervisor's Signature: _____
 These guidelines do not supercede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.