



AIRCRAFT TIRES, TUBES AND WHEELS

SAFETY ESSENTIALS

BEFORE WORKING ON A WHEEL & TIRE ASSEMBLY, ASK YOURSELF

- * Have I read the **NAVAIR 04-10-506 Technical Manual for Aircraft Tires and Tubes**, or **NAVAIR 17-1-129 Support Equipment Tire and Wheel Assemblies**, as applicable?
- * Have I read the **Maintenance Instruction Manual (IETMS)** for this particular assembly?
- * Have I read the **NAVAIR 17-1-123 Technical Manual for Operating and Maintaining the Tire Inflation Assembly**?
- * Have I performed the pre-use inspection of the inflator-assembly kit in accordance with **NAVAIR 17-600-174-6-1**?
- * Do I understand the hazards of high-pressure gases?
- * Do I understand the procedures for inflating and deflating tires?
- * Am I fully qualified for the task in accordance with current directives?

INFLATION PRECAUTIONS

- * Tires newly mounted on wheels must be inflated in a tire cage.
- * Do not fully inflate mounted tires until the axle nut is secured against the wheel bearing.
- * High-pressure sources must be equipped with valves that **limit pressure to 150% above** maximum tire-inflation pressure **or 600 PSI**, whichever is less.
- * Do not modify hose couplings or valve stem adapters, and do not substitute adapter-valve cores.
- * Handle remote control inflator gauges with care.
- * Only use the correct remote inflator gauge after ensuring it has been calibrated **within the last 12 months** in accordance with calibration directives.
- * Do not tamper with the inflator assemblies' relief-valve setting.
- * Clean the tire-inflation area of loose objects within a **20 ft. radius**.
- * Clear the area of unnecessary personnel (refer to **NAVAIR 17-1-123, WP 005 00, Figure 2** for danger areas).
- * **Never set the regulator higher than 600 PSI.**
- * Ensure all inflation-hose couplings are connected tightly.
- * Stand as far away as the inflator hose will permit (**10 feet**) in a line fore or aft of the wheel.
- * Open the source valve slowly, **inflate in 10 PSI** increments to desired pressure and do not overinflate.
- * If over-inflation occurs, open bleeder valve on inflation gauge to release pressure, and allow pressure to stabilize before disconnecting hose at valve stem.
- * Replace valve cap on valve stem.

NOTE: Use water-pumped nitrogen to inflate tires. Dry, oil-free air may be used only when nitrogen is unavailable.

DEFLATION, REMOVAL & DISASSEMBLY

Before removing a wheel and tire assembly from an aircraft, deflate using an approved procedure (refer to **NAVAIR 04-10-506**). When deflated completely, remove the valve core and install a "deflated tire flag" in accordance to **NAVAIR 04-10-506**. Break the tire beads before removing any wheel bolts or unlocking wheel flange lock ring.



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