

Install Wheel and Torque Lug Nuts

Meets NATEF Task: (A5-D-12) Install wheel, torque lug nuts, and make final checks and adjustments. (P-1)

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

_____ 1. Determine the vehicle manufacturer's specified lug nut torque specification.

_____ (usually between 80 and 100 lb-ft)

_____ 2. Use a hand-operated wire brush on the wheel studs to ensure clean and dry threads and check for damage.

OK _____ **NOT OK** _____ Describe fault: _____

_____ 3. Verify that the lug nuts are OK and free of defects.

CAUTION: Some vehicle manufacturers warn to not lubricate the wheel studs because this can cause the lug nuts to loosen while the vehicle is being driven, resulting in personal injury.

_____ 4. Install the wheel over the studs and start all lug nuts (or bolts) by hand.

_____ 5. Tighten the lug nuts a little at a time in a star pattern using an air impact wrench equipped with the proper torque limiting adapter or a torque wrench.

_____ Used a torque wrench

_____ Used an air impact with a torque limiting adapter

_____ 6. Tighten the lug nuts to final torque in a star pattern.



NOTE: "Tighten one, skip one, tighten one" is the usual method if four or five lug nuts are used.