

NATEF TASK SHEET --- SECTION A5 F.7 (P-1)

A5F7: REPLACE WHEEL STUDS

Student: _____ Date: _____ Period: _____

VIN: _____ Year: _____ Make: _____ Model: _____

Engine: _____ Transmission: _____ Production Date: _____

OBJECTIVE: Student will remove, clean, inspect, and replace wheel studs.

- MATERIALS:**
1. **EYE PROTECTION**
 2. Hand Tools
 3. Floor Jack and Safety Stands
 4. Hydraulic Press or Hammer
 5. Vehicle or hub (see instructor)



PROCEDURE: **WEAR EYE PROTECTION!** Wear Safety Glasses.

1. Purchase press-in wheel studs that fit the measurements of your car.
2. Loosen the lug nuts of your car's wheel with a lug wrench, then raise your car with a car jack. Lower your car onto jack stands to prevent injury while installing the wheel studs. Remove the lug nuts fully, and remove the wheel from the hub.
3. Disassemble the brake system on the wheel. Remove the brake caliper, held in place by two bolts, taking care not to damage the brake pads during the removal. Hang the brake caliper, or rest it in a position from which you won't damage the brake line. Remove the brake rotor next; use penetrating oil to lubricate and loosen it if it doesn't slide off easily.
4. Identify the old or broken stud, remove it with a hammer. Pound the stud out of the bolt hole if the stud is only old or worn; use a hammer and punch if the stud has broken and left fragments behind; take care not to scratch or damage the bolt hole. Show the stud to your instructor X_____
5. Insert the new stud from the back of the brake hub. Use a few washers as spacers for the installation of the new stud to help prevent damage to the stud's threads, which you can strip or otherwise damage if you don't use a spacer. Install the new stud using a socket wrench, pulling it through the bolt hole until the spines catch. Tighten the stud until the back rests flush against the brake hub.
6. Reinstall the brake system reversing the process detailed in Step 3. Reattach the wheel to the car, and torque the lug nuts according to factory specs. Jack up the car once again, and remove the jack stands before finally lowering your car. Put away all tools and equipment used.

INSTRUCTORS EVALUATION

LEVEL OF SKILL ATTAINED	<i>Initial</i>	OVERALL SKILL EVALUATION	<i>Points</i>
DEMONSTRATES MASTERY (5)		DOCUMENTATION COMPLETENESS (1)	
PERFORMS SATISFACTORILY (4)		SAFETY COMPLIANCE (1)	
CAPABLE, NEEDS PRACTICE (3)		WORK PROFESSIONALISM (3)	
ASSISTED IN PERFORMING (2)		LEVEL OF SKILL ATTAINED (1-5)	
EXPOSURE, OBSERVATION (1)		TOTAL SCORE	
INSTRUCTOR'S SIGNATURE:			
edited from: http://www.ehow.com/how_7491003_press-wheel-studs.html			

A5F7 / 05-06-12 / vdb