

Wheel Bearing Service

Meets NATEF Task: (A5-F-1) Remove, clean, inspect, repack, and install wheel bearings and replace seals; install hub and adjust bearings. (P-1)

Name _____ Date _____ Time on Task _____

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

_____ 1. Remove the wheel cover and the hub dust cap (grease cap).

_____ 2. Remove and discard the cotter key.

_____ 3. Remove the spindle nut, washer and outer bearing.

_____ 4. Remove inner and outer bearing and grease seal.

_____ 5. Thoroughly clean the bearing in solvent and denatured alcohol or brake cleaner and blow it dry with compressed air.



_____ 6. Closely inspect the bearing for wear or damage.

_____ 7. Show the instructor the cleaned bearing. **Instructor's OK** _____

_____ 8. Repack the bearing with the correct type of wheel bearing grease.

_____ 9. Install a new grease seal using a seal installing tool.

_____ 10. Correctly adjust the bearing preload:

_____ Install the spindle nut and while rotating the tire assembly, tighten (snug only, 12 to 30 lb.-ft.) with a wrench to "seat" the bearing correctly in the race.

_____ While still rotating the tire assembly, loosen the nut approximately 1/2 turn and then *hand tighten only*.

_____ Install a new cotter key (the common size is 1/8" diameter and 1.5 inches long).

_____ Bend the ends of the cotter key up and around the nut to prevent interference with the dust cap.

_____ 11. Install the hub dust cap (grease cap) and wheel cover.