

# Wheel Bearing and Race Replacement

Meets NATEF Task: (A5-F-6) Replace wheel bearing and race. (P-2)

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. Remove the bearing race using the specified tool.
- \_\_\_\_\_ 6. Show the instructor the removed race.  
**Instructor's OK** \_\_\_\_\_
- \_\_\_\_\_ 7. Install new race using the correct bearing race installation tool.
- \_\_\_\_\_ 8. Show the instructor the new race. **Instructor's OK** \_\_\_\_\_
- \_\_\_\_\_ 9. Install a new grease seal using a seal installing tool.
- \_\_\_\_\_ 10. Pack the new bearing with the correct type of wheel bearing grease.
- \_\_\_\_\_ 11. 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.
- \_\_\_\_\_ 12. Install the hub dust cap (grease cap) and wheel cover.

