

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 102 – Wheel Bearings and Service

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Antifriction bearings, bearing greases, seals, and bearing diagnosis
  2. Wheel bearing service, sealed bearing replacement, and rear drive classifications
  3. Rear axle bearing and seal replacement and bearing failure analysis
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#### **OBJECTIVES:**

1. Describe the types of antifriction bearings, bearing greases, and seals.
  2. Explain the diagnosis of defective wheel bearings.
  3. Describe wheel bearing service and sealed bearing replacement.
  4. Discuss rear drive axle classifications.
  5. Describe rear axle bearing and seal replacement.
  6. State the reasons for bearing failure.
  7. This chapter will help prepare for suspension and steering (A4) ASE certification test content area “C” (related suspension and steering service).
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.

1. **Task Sheet ASE (A5-F-1) P-1:** Wheel Bearing Diagnosis
  2. **Task Sheet ASE (A5-F-2) P-2:** Wheel Bearing Service
  3. **Task Sheet ASE (A5-F-6) P-3, (A4-D-2) P-1:** Wheel Bearing and Race Replacement
  4. **Task Sheet ASE (A5-F-8) P-1:** Inspect and Replace Wheel Studs
  5. **Task Sheet ASE (A5-F-7) P-1, (A3-D-3) P-1:** Sealed Wheel Bearing Replacement
  6. Chapter PowerPoint
  7. Chapter Crossword Puzzle and Word Search
  8. Videos: [\(A4\) Suspension and Steering Videos](#)
  9. Animations: [\(A4\) Suspension and Steering Animations](#)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A5-F-1) P-1:** Have students complete Wheel Bearing Diagnosis Task Sheet.
  2. **Task Sheet ASE (A5-F-2) P-2:** Have students complete Wheel Bearing Service Task Sheet.
  3. **Task Sheet ASE (A5-F-6) P-3, (A4-D-2) P-1:** Have students complete Wheel Bearing and Race Replacement Task Sheet.
  4. **Task Sheet ASE (A5-F-8) P-1:** Have students complete Inspect and Replace Wheel Studs Task Sheet.
  5. **Task Sheet ASE (A5-F-7) P-1, (A3-D-3) P-1:** Have students complete Sealed Wheel Bearing Replacement Task Sheet.
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#### **ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.
  2. Complete end of chapter 10 question quiz.
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**CLASS DISCUSSION:**

1. Review and group discussion chapter Frequently Asked Questions and Tech Tips sections.
  2. Review and group discussion of the five (5) chapter Review Questions.
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**NOTES AND EVALUATION:**

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