

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

## Chapter 118 – Rear Suspension and Service

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Solid rear axles, leaf spring suspensions, and trailing arm rear suspension
  2. Semi-trailing arm rear suspension, independent rear suspension, and semi-independent rear suspension
  3. Rear suspension service, rear shock replacement, and rear spring replacement
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#### **OBJECTIVES:**

1. Describe solid rear axles and leaf spring suspensions.
  2. Distinguish between trailing arm and semi-trailing arm rear suspensions.
  3. Distinguish between independent and semi-independent rear suspensions.
  4. Explain rear suspension service, including replacement of rear shocks and rear springs.
  5. This chapter will help prepare for ASE Suspension and Steering (A4) certification content area “B” (Suspension System Diagnosis and Repair).
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A4-C-12) P-1:** Rear Leaf Springs
  2. **Task Sheet ASE (A4-C-11) P-3:** Inspect, Remove, or Replace Suspension Components
  3. Chapter PowerPoint
  4. Chapter Crossword Puzzle and Word Search
  5. Videos: Suspension Noises 101 (time 23:56), Shock squeak (time 1:02), and Shock replacement (time 3:10)
  6. Videos: Rear suspension noise (time 3:01) and Torsion bar replacement (time 20:14)
  7. Videos: Rear strut replacement (time 9:12) and Spring shackle (time 7:48)
  8. Videos: Bump stop replacement (time 7:37) and Track bar installation (time 8:55)
  9. Videos: How To Install New Leaf Springs (time 11:18)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A4-C-12) P-1:** Have students complete Rear Leaf Springs Task Sheets.
  2. **Task Sheet ASE (A4-C-11) P-3:** Have students complete Inspect, Remove, or Replace Suspension Components 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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