**Automotive Technology 6th Edition**

**Chapter 135**

**Automatic Transmission/Transaxle Diagnosis and In-Vehicle Service**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Transmission problem diagnosis, transmission fluid leak diagnosis, and in-vehicle service

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**OBJECTIVES:**

1. Explain the process of diagnosing transmission problems.

2. Discuss the procedures for performing in-vehicle 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** **(A2-B-4) P-1**: Service Automatic Transmission/Transaxle

**2**. **Task Sheet ASE (A2-A-3) P-1, (A2-A-4) P-1, (A2-A-5) P-1**: Diagnose Fluid Loss

**3**. **Task Sheet ASE (A2-A-1) P-1, (A2-A-6) P-1**: Pressure Test Automatic Transmission

**4**. **Task Sheet ASE (A2-A-8) P-2**: Torque Converter Stall Test

**5**. **Task Sheet ASE (A2-A-9) P-3**: Torque Converter Lock-Up Test

**6**. **Task Sheet ASE (A2-A-7) P-2**: Noise and Vibration Diagnosis

**7**. **Task Sheet ASE (A2-A-10) P-1, (A2-A-11) P-1, (A2-B-3) P-1**: Diagnose Electrical/Electronic Concerns

**8**. **Task Sheet ASE (A2-B-1) P-1**: Inspect and Adjust Linkages

**9**. **Task Sheet ASE (A2-A-11) P-1**: Electronic Transmission Scan Tool Diagnosis

**10**. **Task Sheet ASE (A2-B-5) P-2**: Inspect and/or Replace Powertrain Mounts

11. Chapter PowerPoint

12. Chapter Crossword Puzzle and Word Search

13. Videos: [(A2) Automatic Transmissions and Transaxles Videos](https://jameshalderman.com/a2_vid_lib_page/)

14. Animations: [(A2) Automatic Transmissions and Transaxles Animations](https://jameshalderman.com/a2_anim_lib_page/)

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**ACTIVITIES:**

**1. Task Sheet ASE** **(A2-B-4) P-1**: Have students complete Service Automatic Transmission/Transaxle Task Sheet.

**2**. **Task Sheet ASE (A2-A-3) P-1, (A2-A-4) P-1, (A2-A-5) P-1**: Have students complete Diagnose Fluid Loss Task Sheet.

**3**. **Task Sheet ASE (A2-A-1) P-1, (A2-A-6) P-1**: Have students complete Pressure Test Automatic Transmission Task Sheet.

**4**. **Task Sheet ASE (A2-A-8) P-2**: Have students complete Torque Converter Stall Test Task Sheet.

**5**. **Task Sheet ASE (A2-A-9) P-3**: Have students complete Torque Converter Lock-Up Test Task Sheet.

**6**. **Task Sheet ASE (A2-A-7) P-2**: Have students complete Noise and Vibration Diagnosis Task Sheet.

**7**. **Task Sheet ASE (A2-A-10) P-1, (A2-A-11) P-1, (A2-B-3) P-1**: Have students complete Diagnose Electrical/Electronic Concerns Task Sheet.

**8**. **Task Sheet ASE (A2-B-1) P-1**: Have students complete Inspect and Adjust Linkages Task Sheet.

**9**. **Task Sheet ASE (A2-A-11) P-1**: Have students complete Electronic Transmission Scan Tool Diagnosis Task Sheet.

**10**. **Task Sheet ASE (A2-B-5) P-2**: Have students complete Inspect and/or Replace Powertrain Mounts 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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