

MECHANIC STUDY GUIDE
Automatic Transmission
Automobile & Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items.

Component Diagnosis - 8%

Hydraulic pump Torque
converter Clutch pack
clearance Pump gear
clearance

Internal Operation - 32%

Gear train end-play
Clutch band servo
Planetary gear set
Multiple disc clutch packs
Passing gear operation Lock-up
converters Vacuum modulator
Valve body shift valves
Shift points
Governor operation
TPS (throttle position sensor)
operation

General Diagnosis - 18%

Harsh engagement Governor
malfunctions Fluid diagnosis
Glazed band diagnosis
Fluid leak diagnosis
Pressure testing
Spool valve diagnosis Burned
clutch diagnosis Fluid loss
diagnosis

Driveability Diagnosis 28%

Downshift problems
Improper shifting
Upshifting problems
Modulator problems
Shift linkage adjustment
No drive diagnosis
Creeps in neutral
Restricted filter
Noisy transmission
Slipping Transmission
Sluggish operation

Repair Procedures - 6%

Transmission remove & replace
Stator support bushing wear
Cooler line repair
Pump to converter engagement

Miscellaneous - 8%

Valve identification
Fluid types
Transaxle knowledge
Valve body components
Direct drive condition

SAMPLE QUESTION:

It takes a moment for the car to move after the gear selector has been placed in "drive." Which of the following would cause this problem?

- A. A defective neutral safety switch.
- B. A partially plugged screen.
- C. An inoperative lock-up converter clutch.
- D. None of the above.

ANSWER: B