

Diagnosis

Student/Intern information:

Name _____ Date _____ Class _____

Vehicle used for this activity:

Year _____ Make _____ Model _____

Odometer _____ VIN _____

Learning Objective/Task	CDX Tasksheet Number	2017 MAST NATEF Reference Number; Priority Level
• Diagnose electronic transmission/transaxle control systems using appropriate test equipment and service information.	C600	2A11; P-1
• Inspect, test, adjust, repair, and/or replace electrical/electronic components and circuits including computers, solenoids, sensors, relays, terminals, connectors, switches, and harnesses; demonstrate understanding of relearn procedure.	C601	2B3; P-1
• Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held-member (power flow) principles.	C066	2A10; P-1
• Diagnose pressure concerns in a transmission using hydraulic principles (Pascal's Law).	C747	2A12; P-2
• Diagnose noise and vibration concerns; determine needed action.	C743	2A7; P-2
• Identify and interpret transmission/transaxle concerns, differentiate between engine performance and transmission/transaxle concerns; determine needed action.	C599	2A1; P-1
• Check fluid level in a transmission or a transaxle equipped with a dipstick.	C902	2A4; P-1
• Check fluid level in a transmission or a transaxle not equipped with a dipstick.	C903X	2A5; P-1
• Diagnose fluid loss and condition concerns; determine needed action.	C682	2A3; P-1

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle with automatic transmission/transaxle
- Vehicle hoist
- Transmission pressure gauge set
- Tachometer
- Scan tool
- DVOM/DMM

Some Safety Issues to Consider

- Vehicle hoists are important tools that increase productivity and make the job easier. However, they can also cause severe injury or death if used improperly. Make sure you follow the manufacturer's operation procedures. Also, make sure you have your supervisor's/ instructor's permission to use a hoist.
- When running any vehicles in the shop, make sure you use the shop's exhaust ventilation system to discharge all exhaust gas safely outside.
- Diagnosis of this fault may require test-driving the vehicle on the school grounds. Attempt this task only with full permission from your instructor and follow all the guidelines exactly.
- Always wear the correct protective eyewear and clothing, and use the appropriate safety equipment, as well as fender covers, seat protectors, and floor mat protectors.
- Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

Performance Standard

0—No exposure: No information or practice provided during the program; complete training required

1—Exposure only: General information provided with no practice time; close supervision needed; additional training required

2—Limited practice: Has practiced job during training program; additional training required to develop skill

3—Moderately skilled: Has performed job independently during training program; limited additional training may be required

4—Skilled: Can perform job independently with no additional training