

Transmission Disassembly and Inspection

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
• Disassemble, clean, and inspect transmission/transaxle.	C684	2C6; P-1
• Inspect, measure, and reseal oil pump assembly and components.	C688	2C10; P-2
• Measure transmission/transaxle end play and/or preload; determine needed action.	C689	2C11; P-1
• Inspect and measure planetary gear assembly components; determine needed action.	C752	2C15; P-2
• Inspect bushings; determine needed action.	C751	2C14; P-2
• Inspect, measure, and/or replace thrust washers and bearings.	C750	2C12; P-2
• Inspect one-way clutches, races, rollers, sprags, springs, cages, and retainers; determine needed action.	C759	2C22; P-2
• Inspect oil delivery circuits, including seal rings, ring grooves, and sealing surface areas, feed pipes, orifices, and check valves/balls.	C690	2C13; P-2
• Inspect case bores, passages, bushings, vents, and mating surfaces; determine needed action.	C753	2C16; P-2
• Inspect servo and accumulator bores, pistons, seals, pins, springs, and retainers; determine needed action.	C686	2C8; P-2
• Inspect clutch drum, piston, check balls, springs, retainers, seals, friction plates, pressure plates, and bands; determine needed action.	C756	2C19; P-2
• Measure clutch pack clearance; determine needed action.	C757	2C20; P-1
• Air test operation of clutch and servo assemblies.	C758	2C21; P-1
• Inspect, measure, clean, and replace valve body (includes surfaces, bores, springs, valves, switches, solenoids, sleeves, retainers, brackets, check valves/balls, screens, spacers, and gaskets).	C685	2C7; P-2
• Diagnose and inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform needed action.	C754	2C17; P-2
• Inspect, measure, repair, adjust, or replace transaxle final drive components.	C755	2C18; P-2

Time off _____

Time on _____

Total time _____

Materials Required

- Vehicle with automatic transmission/transaxle
- Vehicle hoist
- Transmission jack
- Dial indicator
- Drain pan
- Cooler flushing equipment
- Torque wrench
- Manufacturer or job specific special tools
- Transmission/transaxle
- Snap ring pliers
- Dial indicator
- Feeler blades
- Straightedge
- Approved air nozzle
- Manufacturer-specific tools

- This procedure may require cleaning the transmission or axle assembly prior to inspection. If so, use the proper equipment and procedures to carry this out safely. Also, get your supervisor's/ instructor's permission prior to cleaning.
- Automotive transmissions/transaxles are heavy. Make sure they are secured to the transmission jack during removal and installation.
- 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.
- Castings and machined parts may have sharp edges. Handle these parts with care.
- Many transmission parts are round and can easily roll off of tables and carts. Be sure to place them in a secure manner to prevent component damage or personal injury from falling objects.
- Compressed air can be very dangerous if applied to broken skin or body cavities. Always use approved air nozzles, and never point them at yourself or another person.
- Transmissions, transaxles, and their component assemblies are heavy and can slip easily. Work safely, get help, and do not overextend your abilities.

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