



COURSE NUMBER

AMT 163

Student Name _____

CO-OP IV TASK LIST

Upon completion of a task, the student should enter the date of completion and an authorized employee of the dealership must then validate that the task has been successfully completed by initialing next to the date.

Work Area: Brakes

1. Check master cylinder fluid condition and adjust level as needed _____
2. Check master cylinder for internal and external leaks and proper operation; determine needed repairs _____
3. Bench bleed master cylinder _____
4. Replace master cylinder _____
5. Inspect brake lines and hoses; replace as needed _____
6. Diagnose poor stopping, noise, pulling, grabbing, dragging, or pedal pulsation using road test and visual inspection _____
7. Perform front disc brake repair including replacement of brake pads, rebuilding calipers, and machining rotors following manufacturer's recommended procedures _____
8. Perform rear drum repair including replacement of brake shoes and wheel cylinders, and machining of brake drums following manufacturer's recommended procedures _____
9. Check parking brake system; lubricate, adjust and or replace as needed _____
10. Test operation of vacuum operated power assist unit; determine needed repairs _____
11. Check operation of hydraulic valves (metering, proportioning, pressure differential, and combination) _____
12. Clean, inspect & repack front wheel bearings on rear wheel drive vehicle _____
13. Test parking brake indicator lights, switches, and wiring _____
14. Test, adjust, repair or replace brake stop light switch and wiring _____
15. Diagnose and repair an anti-lock brake system _____

Work Area: Steering and Suspension

1. Inspect manual and power steering fluid levels and condition _____
2. Diagnose power rack and pinion steering gear looseness, and hard steering problems; determine needed repairs _____
3. Diagnose power steering fluid leaks _____
4. Remove and replace manual or power rack and pinion steering gear _____
5. Flush power steering system _____
6. Remove and replace power steering pump _____
7. Inspect and replace power steering pump pulley _____
8. Replace power steering hose(s) _____
9. Inspect steering and suspension for worn parts; replace as needed _____
10. Replace worn steering parts such as inner and outer tie rod ends, pitman arm, idler arm, steering center link, etc. _____
11. Replace broken or worn suspension parts such as upper and lower ball joints, bushings, stabilizer links, springs, etc. _____
12. Inspect and replace MacPherson strut cartridge or assembly _____
13. Inspect and replace shock absorbers _____
14. Diagnose wheel bearing noise _____
15. Inspect and service or replace front and or rear wheel bearings _____
16. Diagnose vehicle wandering, pulling, hard steering, and poor steering return; determine needed repairs _____
17. Measure riding height _____
18. Perform 4 wheel alignment; make all necessary adjustments _____
19. Center steering wheel _____
20. Inspect abnormal tire wear; determine probable cause(s) _____
21. Diagnose wheel/tire vibration, shimmy, and tramp problems; determine needed repairs _____
22. Diagnose tire pull (lead) problems; determine corrective actions _____
23. Diagnose & repair electronically controlled variable power steering system _____
24. Diagnose and repair electronically controlled suspension system _____

Work Area: Engine Management - Fuel & Emissions

- 1. Inspect fuel tank and fuel cap; inspect and replace fuel lines, fittings, and hoses _____
- 2. Check fuel for contaminants and quality _____
- 3. Inspect and test mechanical and electrical fuel pumps; replace as needed _____
- 4. Replace fuel filters _____
- 5. Inspect and service air cleaner and element _____
- 6. Inspect and test positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; service or replace as needed _____
- 7. Inspect and test EGR system; service or replace as needed _____
- 8. Inspect and test components of air injection systems; service or replace as needed _____
- 9. Inspect and test components of catalytic converter systems; replace as needed _____
- 10. Inspect and test components of inlet air temperature control system; replace as needed _____
- 11. Inspect and test components of early fuel evaporation control systems; service or replace as needed _____
- 12. Inspect and test components and hoses of evaporative emissions control systems; replace as needed _____

Work Area: Engine Management - Performance

- 1. Use of Engine Emissions Diagnostic Manual _____
- 2. Verifies concern prior to repair _____
- 3. Routinely checks OASIS for pertinent information _____
- 4. References TSBs as part of routine procedure _____
- 5. Use of EVTMs as diagnostic/repair aid _____
- 6. Locate/interpret engine calibration information _____
- 7. Diagnosing the following Non-EEC Driveability Concerns:
 - Basic Adjustments (throttle stop, etc.) _____
 - Induction System Problems _____
 - Vacuum Leaks _____
 - Poor Compression _____
 - Valve train (cam timing, duration, etc.) _____
 - Exhaust Restriction _____

8. Engine Control Strategies (timing, fuel, EGR, etc.) _____
9. Use of the following equipment:
- Breakout Box _____
 - Digital Volt/Ohm Meter _____
 - New Generation Star Tester _____
 - Oscilloscope/Engine Analyzer _____
 - Exhaust Emissions Analyzer _____
 - Fuel Quality Test Equipment _____
 - Fuel Pressure Test Equipment _____
 - NGS Scan Tool _____
 - Service Bay Diagnostic System _____
 - World Diagnostic System _____
10. Performs self test preliminary/visual checks _____
11. Performing EEC-IV System Self Test _____
12. Interpreting EEC-IV Self Test Codes _____
13. Performing pinpoint diagnostics when self test indicates a system fault _____
14. Diagnosing system faults that don't generate a self test code _____
15. Diagnosing intermittent faults _____
16. Diagnosing concerns in the following areas:
- TFI-IV Ignition System and Timing Control circuits _____
 - Potentiometer sensor circuits (TPS, EVP, etc.) _____
 - Thermistor sensor circuits (ECT, IAT, VAT, etc.) _____
 - Frequency generator circuits (MAP, BP, etc.) _____
 - Exhaust Gas Oxygen (EGO) sensor circuit _____
 - Knock sensor circuit _____
 - Fuel delivery system _____
 - Fuel injection system _____
 - EGR valve and control system _____
 - Thermactor valves and control system _____
 - Boost control systems _____
 - Electronic Control Assembly (processor) _____