



Correlation of
***Modern Automotive Technology*, by Duffy**
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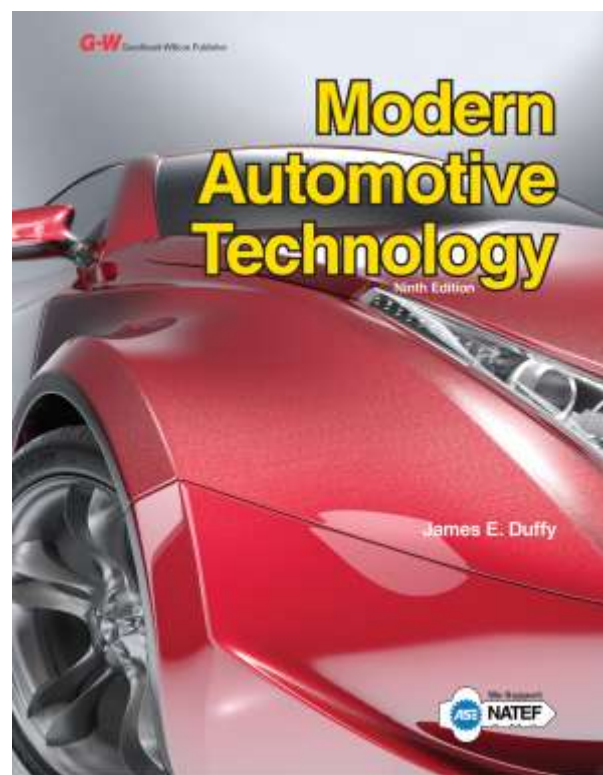
to

NATEF Maintenance and Light Repair (MLR) Task List Correlation Chart

The following chart correlates the *Modern Automotive Technology* Shop Manual (©2017) to the 2017 NATEF Maintenance and Light Repair (MLR) Task List.

The correlation below lists the tasks, priority level, and the corresponding page numbers from the *Modern Automotive Technology* Shop Manual for the Maintenance and Light Repair Task List.

For more information on NATEF standards, including additional information on the ASE Industry Education Alliance, please visit <http://www.asealliance.org/>.



ENGINE REPAIR

For every task in Engine Repair, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
I. ENGINE REPAIR		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2

Task Number and Description	Priority	Job #s
2. Verify operation of the instrument panel engine warning indicators.	P-1	11, 138, 139, 140, 141
3. Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	P-1	7
4. Install engine covers using gaskets, seals, and sealers as required.	P-1	3, 4, 27, 28, 34
5. Verify engine mechanical timing.	P-2	24, 28
6. Perform common fastener and thread repair, to include: remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.	P-1	15
7. Identify service precautions related to service of the internal combustion engine of a hybrid vehicle.	P-2	12, 13
I. ENGINE REPAIR		
B. Cylinder Head and Valve Train		
1. Adjust valves (mechanical or hydraulic lifters).	P-3	25
2. Identify components of the cylinder head and valve train.	P-1	13, 20, 21, 23, 28
I. ENGINE REPAIR		
C. Lubrication and Cooling System		
1. Perform cooling system pressure dye tests to identify leaks; check coolant condition and level; inspect and test radiator, pressure cap, coolant recovery tank, heater core, and gallery plugs; determine necessary action.	P-1	31
2. Inspect, replace, and/or adjust drive belts, tensioners, and pulleys; check pulley and belt alignment.	P-1	31, 33
3. Remove, inspect, and replace thermostat and gasket/seal.	P-1	36
4. Inspect and test coolant; drain and recover coolant; flush and refill cooling system; use proper fluid type per manufacturer specification; bleed air as required.	P-1	2, 31, 32
5. Perform engine oil and filter change; use proper fluid type per manufacturer specification; reset maintenance reminder as required.	P-1	2, 6, 136, 138, 141
6. Identify components of the lubrication and cooling systems.	P-1	31, 33, 34, 35, 36

AUTOMATIC TRANSMISSION AND TRANSAXLE

For every task in Automatic Transmission and Transaxle, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Check fluid level in a transmission or transaxle equipped with a dipstick.	P-1	39, 44
3. Check fluid level in a transmission or transaxle not equipped with a dipstick.	P-1	39, 44
4. Check transmission fluid condition; check for leaks.	P-2	39, 44
5. Identify drive train components and configuration.	P-1	37, 48, 49, 52, 53, 54, 55, 57
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
B. In-Vehicle Transmission/Transaxle		
1. Inspect, adjust, and/or replace external manual valve shift linkage, transmission range sensor/switch, and/or park/neutral position switch.	P-2	39, 45
2. Inspect for leakage at external seals, gaskets, and bushings.	P-1	3, 4
3. Inspect, replace, and/or align power train mounts.	P-2	37, 38
4. Drain and replace fluid filter(s); use proper fluid type per manufacturer specification.	P-1	2, 44
II. AUTOMATIC TRANSMISSION AND TRANSAXLE		
C. Off-Vehicle Transmission/Transaxle		
1. Describe the operational characteristics of a continuously variable transmission (CVT).	P-3	39
2. Describe the operational characteristics of a hybrid vehicle drive train.	P-3	39

MANUAL DRIVE TRAIN AND AXLES

For every task in Manual Drive Train and Axles, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
III MANUAL DRIVE TRAIN AND AXLES		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Drain and refill manual transmission/transaxle and final drive unit; use proper fluid type per manufacturer specification.	P-1	2, 77, 78, 79, 80, 86, 89
3. Check fluid condition; check for leaks.	P-2	60, 65
4. Identify manual drive train and axle components and configuration.	P-1	77, 78, 79, 80, 81
III MANUAL DRIVE TRAIN AND AXLES		
B. Clutch		
1. Check and adjust clutch master cylinder fluid level; use proper fluid type per manufacturer specification.	P-1	2, 71, 73
2. Check for hydraulic system leaks.	P-1	71, 73
III MANUAL DRIVE TRAIN AND AXLES		
C. Transmission/Transaxle		
1. Describe the operational characteristics of an electronically-controlled manual transmission/transaxle.	P-2	69
III MANUAL DRIVE TRAIN AND AXLES		
D. Drive Shaft, Half Shaft, Universal Joints, and Constant-Velocity (CV) Joints (Front, Rear, All, and Four-wheel Drive)		
1. Inspect, remove, and/or replace bearings, hubs, and seals.	P-2	68
2. Inspect, service, and/or replace shafts, yokes, and universal/CV joints.	P-2	66, 67
3. Inspect locking hubs.	P-3	67, 68, 83, 92
4. Check for leaks at drive assembly and transfer case seals; check vents; check fluid level; use proper fluid type per manufacturer specification.	P-2	2, 65, 81
III MANUAL DRIVE TRAIN AND AXLES		
E. Differential Case Assembly		
1. Clean and inspect differential case; check for leaks; inspect housing vent.	P-1	7, 65, 87

Task Number and Description	Priority	Job #s
2. Check and adjust differential case fluid level; use proper fluid type per manufacturer specification.	P-1	2, 60
3. Drain and refill differential housing.	P-1	86, 89
4. Inspect and replace drive axle wheel studs.	P-1	108

SUSPENSION AND STEERING

For every task in Suspension and Steering, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
IV. SUSPENSION AND STEERING		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Disable and enable supplemental restraint system (SRS); verify indicator lamp operation.	P-1	94, 147
3. Identify suspension and steering system components and configurations.	P-1	90, 93, 95, 96, 98, 101, 102, 104, 105
IV. SUSPENSION AND STEERING		
B. Related Suspension and Steering Service		
1. Inspect rack and pinion steering gear inner tie rod ends (sockets) and bellows boots.	P-1	95
2. Inspect power steering fluid level and condition.	P-1	91, 97
3. Flush, fill, and bleed power steering system; use proper fluid type per manufacturer specification.	P-2	2, 97
4. Inspect for power steering fluid leakage.	P-1	97
5. Remove, inspect, replace, and/or adjust power steering pump drive belt.	P-1	33, 97
6. Inspect and replace power steering hoses and fittings.	P-2	90, 97
7. Inspect pitman arm, relay (centerlink/intermediate) rod, idler arm, mountings, and steering linkage damper.	P-1	90, 94, 96
8. Inspect tie rod ends (sockets), tie rod sleeves, and clamps.	P-1	90
9. Inspect upper and lower control arms, bushings, and shafts.	P-1	90
10. Inspect and replace rebound bumpers.	P-1	90, 99
11. Inspect track bar, strut rods/radius arms, and related mounts and bushings.	P-1	90

Task Number and Description	Priority	Job #s
12. Inspect upper and lower ball joints (with or without wear indicators).	P-1	90
13. Inspect suspension system coil springs and spring insulators (silencers).	P-1	90
14. Inspect suspension system torsion bars and mounts.	P-1	90
15. Inspect and/or replace front/rear stabilizer bar (sway bar) bushings, brackets, and links.	P-1	90, 98
16. Inspect, remove, and/or replace strut cartridge or assembly; inspect mounts and bushings.	P-2	90, 101
17. Inspect front strut bearing and mount.	P-1	90, 101
18. Inspect rear suspension system lateral links/arms (track bars), control (trailing) arms.	P-1	90, 99
19. Inspect rear suspension system leaf spring(s), spring insulators (silencers), shackles, brackets, bushings, center pins/bolts, and mounts.	P-1	90, 100
20. Inspect, remove, and/or replace shock absorbers; inspect mounts and bushings.	P-1	90, 102
21. Inspect electric power steering assist system.	P-2	97
22. Identify hybrid vehicle power steering system electrical circuits and safety precautions.	P-2	93
23. Describe the function of suspension and steering control system components (i.e., active suspension and stability control).	P-3	90
IV. SUSPENSION AND STEERING		
C. Wheel Alignment		
1. Perform prealignment inspection; measure vehicle ride height.	P-1	90, 103
2. Describe alignment angles (camber, caster, and toe).	P-1	103
IV. SUSPENSION AND STEERING		
D. Wheels and Tires		
1. Inspect tire condition; identify tire wear patterns; check for correct tire size, application (load and speed ratings), and air pressure as listed on the tire information placard/label.	P-1	81, 104
2. Rotate tires according to manufacturer's recommendations, including vehicles equipped with tire pressure monitoring systems (TPMS).	P-1	106
3. Dismount, inspect, and remount tire on wheel; balance wheel and tire assembly.	P-1	105, 106
4. Dismount, inspect, and remount tire on wheel equipped with tire pressure monitoring system sensor.	P-1	105, 106

Task Number and Description	Priority	Job #s
5. Inspect tire and wheel assembly for air loss; determine necessary action.	P-1	104
6. Repair tire following vehicle manufacturer approved procedure.	P-1	2, 105
7. Identify indirect and direct tire pressure monitoring systems (TPMS); calibrate system; verify operation of instrument panel lamps.	P-1	105
8. Demonstrate knowledge of steps required to remove and replace sensors in a tire pressure monitoring system (TPMS), including relearn procedure.	P-1	105, 161

BRAKES

For every task in Brakes, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
V. BRAKES		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Describe procedure for performing a road test to check brake system operation, including anti-lock brake system (ABS).	P-1	107
3. Install wheel and torque lug nuts.	P-1	105, 116, 118
4. Identify brake system components and configuration.	P-1	107, 108, 109, 110, 112, 116, 118, 121
V. BRAKES		
B. Hydraulic System		
1. Describe proper brake pedal height, travel, and feel.	P-1	107
2. Check master cylinder for external leaks and proper operation.	P-1	107
3. Inspect brake lines, flexible hoses, and fittings for leaks, dents, kinks, rust, cracks, bulging, wear, and loose fittings/supports.	P-1	107, 111
4. Select, handle, store, and fill brake fluids to proper level; use proper fluid type per manufacturer specification.	P-1	2, 113, 115
5. Identify components of hydraulic brake warning light system.	P-3	111, 136, 138
6. Bleed and/or flush brake system.	P-1	115

Task Number and Description	Priority	Job #s
7. Test brake fluid for contamination.	P-1	115
V. BRAKES		
C. Drum Brakes		
1. Remove, clean, and inspect brake drum; measure brake drum diameter; determine serviceability.	P-1	107, 116
2. Refinish brake drum and measure final drum diameter; compare with specification.	P-1	117
3. Remove, clean, inspect, and/or replace brake shoes, springs, pins, clips, levers, adjusters/self-adjusters, other related brake hardware, and backing support plates; lubricate and reassemble.	P-1	116
4. Inspect wheel cylinders for leaks and proper operation; remove and replace as needed.	P-2	116
5. Pre-adjust brake shoes and parking brake; install brake drums or drum/hub assemblies and wheel bearings; make final checks and adjustments.	P-1	116
V. BRAKES		
D. Disc Brakes		
1. Remove and clean caliper assembly; inspect for leaks and damage/wear; determine necessary action.	P-1	107, 118
2. Inspect caliper mounting and slides/pins for proper operation, wear, and damage; determine necessary action.	P-1	118
3. Remove, inspect, and/or replace brake pads and retaining hardware; determine necessary action.	P-1	118
4. Lubricate and reinstall caliper, brake pads, and related hardware; seat brake pads and inspect for leaks.	P-1	118
5. Clean and inspect rotor and mounting surface, measure rotor thickness, thickness variation, and lateral runout; determine necessary action.	P-1	118
6. Remove and reinstall/replace rotor.	P-1	118
7. Refinish rotor on vehicle; measure final rotor thickness and compare with specification.	P-1	120
8. Refinish rotor off vehicle; measure final rotor thickness and compare with specification.	P-1	120
9. Retract and readjust caliper piston on an integral parking brake system.	P-2	110
10. Check brake pad wear indicator; determine necessary action.	P-1	118
11. Describe the importance of operating a vehicle to burnish/break in replacement brake pads according to manufacturer's recommendation.	P-1	118

Task Number and Description	Priority	Job #s
V. BRAKES		
E. Power-Assist Units		
1. Check brake pedal travel with and without engine running to verify proper power booster operation.	P-2	114
2. Identify components of the brake power assist system (vacuum and hydraulic); check vacuum supply (manifold or auxiliary pump) to vacuum-type power booster.	P-1	114
V. BRAKES		
F. Related Systems (i.e., Wheel Bearings, Parking Brakes, Electrical)		
1. Remove, clean, inspect, repack, and install wheel bearings; replace seals; install hub and adjust bearings.	P-1	5, 109
2. Check parking brake system components for wear, binding, and corrosion; clean, lubricate, adjust, and/or replace as needed.	P-2	110
3. Check parking brake operation and parking brake indicator light system operation; determine necessary action.	P-1	110
4. Check operation of brake stop light system.	P-1	136
5. Replace wheel bearing and race.	P-2	5, 109
6. Inspect and replace wheel studs.	P-1	108
V. BRAKES		
G. Electronic Brake, Traction Control, and Stability Control Systems		
1. Identify traction control/vehicle stability control system components.	P-3	121
2. Describe the operation of a regenerative braking system.	P-3	111

ELECTRICAL/ELECTRONIC SYSTEMS

For every task in Electrical/Electronic Systems, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
A. General		
1. Research service information, including vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Demonstrate knowledge of electrical/electronic series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law).	P-1	136
3. Using wiring diagrams to trace electrical/electronic circuits.	P-1	130, 136, 138

Task Number and Description	Priority	Job #s
4. Demonstrate proper use of a digital multimeter (DMM) when measuring source voltage, voltage drop (including grounds), current flow, and resistance.	P-1	130, 136, 142
5. Demonstrate knowledge of the causes and effects from shorts, grounds, opens, and resistance problems in electrical/electronic circuits.	P-1	130, 138, 142
6. Use a test light to check operation of electrical circuits.	P-2	130, 136
7. Use fused jumper wires to check operation of electrical circuits.	P-2	125, 138
8. Measure key-off battery drain (parasitic draw).	P-1	125
9. Inspect and test fusible links, circuit breakers, and fuses; determine necessary action.	P-1	125, 130, 138, 139
10. Repair and/or replace connectors, terminal ends, and wiring of electrical/electronic systems (including solder repair).	P-1	126
11. Identify electrical/electronic system components and configuration.	P-1	126, 130, 134, 141, 142, 143, 144, 145, 146, 147, 150, 157
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
B. Battery Service		
1. Perform battery state-of-charge test; determine necessary action.	P-1	127
2. Confirm proper battery capacity for vehicle application; perform battery capacity and load test; determine necessary action.	P-1	127
3. Maintain or restore electronic memory functions.	P-1	125, 128
4. Inspect and clean battery; fill battery cells; check battery cables, connectors, clamps, and hold-downs.	P-1	127, 128
5. Perform slow/fast battery charge according to manufacturer's recommendations.	P-1	128
6. Jump-start vehicle using jumper cables and booster battery or an auxiliary power supply.	P-1	129
7. Identify safety precautions for high voltage systems on electric, hybrid-electric, and diesel vehicles.	P-2	127, 128
8. Identify electrical/electronic modules, security systems, radios, and other accessories, that require reinitialization or code entry after reconnecting vehicle battery.	P-1	128
9. Identify hybrid vehicle auxiliary (12v) battery service, repair, and test procedures.	P-2	127, 128

Task Number and Description	Priority	Job #s
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
C. Starting System		
1. Perform starter current draw test; determine necessary action.	P-1	130
2. Perform starter circuit voltage drop tests; determine necessary action.	P-1	130
3. Inspect and test starter relays and solenoids; determine necessary action.	P-2	130, 131
4. Remove and install starter in a vehicle.	P-1	133
5. Inspect and test switches, connectors, and wires of starter control circuits; determine necessary action.	P-2	130
6. Demonstrate knowledge of an automatic idle-stop/start-stop system.	P-3	—
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
D. Charging System		
1. Perform charging system output test; determine necessary action.	P-1	134
2. Inspect, adjust, and/or replace generator (alternator) drive belts; check pulleys and tensioners for wear; check pulley and belt alignment.	P-1	33, 134
3. Remove, inspect, and/or replace generator (alternator).	P-2	134, 135
4. Perform charging circuit voltage drop test; determine necessary action.	P-2	134
VI. ELECTRICAL/ELECTRONIC SYSTEMS		
E. Lighting, Instrument Cluster, Driver Information, and Body Electrical Systems		
1. Inspect interior and exterior lamps and sockets including headlights and auxiliary lights (for lights/driving lights); replace as needed.	P-1	136
2. Aim headlights.	P-2	137
3. Identify system voltage and safety precautions associated with high-intensity discharge headlights.	P-2	137
4. Disable and enable supplemental restraint system (SRS); verify indicator lamp operation.	P-1	147
5. Remove and reinstall door panel.	P-1	144
6. Describe the operation of keyless entry/remote start systems.	P-3	151
7. Verify operation of instrument panel gauges and warning/indicator lights; reset maintenance indicators.	P-1	136, 138, 139, 140, 141
8. Verify windshield wiper and washer operation; replace wiper blades.	P-1	143

HEATING AND AIR CONDITIONING

For every task in Heating and Air Conditioning, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
VII. HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)		
A. General		
1. Research vehicle service information, including refrigerant/oil type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Identify heating, ventilation, and air conditioning (HVAC) components and configuration.	P-1	152, 156, 157, 158, 159
VII. HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)		
B. Refrigeration System Components		
1. Inspect and replace A/C compressor drive belts, pulleys, and tensioners; visually inspect A/C components for signs of leaks; determine necessary action.	P-1	33 152, 155
2. Identify hybrid vehicle A/C system electrical circuits and the service/safety precautions.	P-2	152
3. Inspect A/C condenser for airflow restrictions; determine necessary action.	P-1	152
VII. HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)		
C. Heating, Ventilation, and Engine Cooling Systems		
1. Inspect engine cooling and heater systems hoses and pipes; determine necessary action.	P-1	31, 33, 158, 159
VII. HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)		
D. Operating Systems and Related Controls		
1. Inspect A/C-heater ducts, doors, hoses, cabin filters, and outlets; determine necessary action.	P-1	
2. Identify the source of A/C system odors.	P-2	

ENGINE PERFORMANCE

For every task in Engine Performance, the following safety requirement must be strictly enforced:

- 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.

Task Number and Description	Priority	Job #s
VIII. ENGINE PERFORMANCE		
A. General		
1. Research vehicle service information, including fluid type, vehicle service history, service precautions, and technical service bulletins.	P-1	2
2. Perform engine absolute manifold pressure test (vacuum/boost); document results.	P-2	8
3. Perform cylinder power balance test; document results.	P-2	8
4. Perform cylinder cranking and running compression test; document results.	P-2	9
5. Perform cylinder leakage test; document results.	P-2	9
6. Verify engine operating temperature.	P-1	31
7. Remove and replace spark plugs; inspect secondary ignition components for wear and damage.	P-1	164, 165
VIII. ENGINE PERFORMANCE		
B. Computerized Controls		
1. Retrieve and record diagnostic trouble codes (DTC), OBD monitor status, and freeze frame data; clear codes when applicable.	P-1	11, 161
2. Describe the use of the OBD monitors for repair and verification.	P-1	161
VIII. ENGINE PERFORMANCE		
C. Fuel, Air Induction, and Exhaust Systems		
1. Replace fuel filter(s) where applicable.	P-2	167
2. Inspect, service, or replace air filters, filter housings, and intake ductwork.	P-1	168
3. Inspect integrity of the manifold, exhaust pipes, muffler(s), catalytic converter(s), resonator(s), tailpipe(s), and heat shields; determine necessary action.	P-1	173, 174, 177
4. Inspect condition of exhaust system hangers, brackets, clamps, and heat shields; determine necessary action.	P-1	173, 174, 177
5. Check and refill diesel exhaust fluid (DEF).	P-2	173

Task Number and Description	Priority	Job #s
VIII. ENGINE PERFORMANCE		
D. Emissions Control Systems		
1. Inspect, test, and service positive crankcase ventilation (PCV) filter/breather, valve, tubes, orifices, and hoses; perform necessary action.	P-2	178

REQUIRED SUPPLEMENTAL TASKS

Task Number and Description	Job #s
Shop and Personal Safety	
1. Identify general shop safety rules and procedures.	1
2. Utilize safe procedures for handling of tools and equipment.	1
3. Identify and use proper placement of floor jacks and jack stands.	1
4. Identify and use proper procedures for safe lift operation.	1
5. Utilize proper ventilation procedures for working within the lab/shop area.	1
6. Identify marked safety areas.	1
7. Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment.	1
8. Identify the location and use of eyewash stations.	1
9. Identify the location of the posted evacuation routes.	1
10. Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities.	1
11. Identify and wear appropriate clothing for lab/shop activities.	1
12. Secure hair and jewelry for lab/shop activities.	1
13. Demonstrate awareness of the safety aspects of supplemental restraint systems (SRS), electronic brake control systems, and hybrid vehicle high voltage circuits.	1
14. Demonstrate awareness of the safety aspects of high voltage circuits (such as high intensity discharge (HID) lamps, ignition systems, injection systems, etc.).	1, 137
15. Locate and demonstrate knowledge of material safety data sheets (MSDS).	1, 2
Tools and Equipment	
1. Identify tools and their usage in automotive applications.	1, 11
2. Identify standard and metric designation.	2, 28, 31, 40, 172
3. Demonstrate safe handling and use of appropriate tools.	1

Task Number and Description	Job #s
4. Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	1
5. Demonstrate proper use of precision measuring tools (i.e., micrometer, dial-indicator, dial-caliper).	16, 18, 21, 27
Preparing Vehicle for Service	
1. Identify information needed and the service requested on a repair order.	2
2. Identify purpose and demonstrate proper use of fender covers, mats.	6
3. Demonstrate use of the three Cs (concern, cause, and correction).	160
4. Review vehicle service history.	2
5. Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.	2
Preparing Vehicle for Customer	
1. Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover, etc.).	6