

CDX Tasksheet Number	TASKSHEET	ASC UK Mechanical Level 3 NVQ
C325	Diagnose the cause of incorrect operation of warning devices and other driver information systems; determine necessary action.	AE06
C329	Diagnose incorrect washer operation; perform necessary action.	AE06
C331	Diagnose incorrect heated glass operation; determine necessary action.	AE06
C338	Diagnose body electronic system circuits using a scan tool; determine necessary action.	AE06
C333	Diagnose incorrect operation of cruise control systems; determine necessary action.	AE06
C585	Identify refrigerant type; select and connect proper gauge set, record pressure readings; determine necessary action.	AE06
C336	Diagnose radio static and weak, intermittent, or no radio reception; determine necessary action.	AE06
C340	Diagnose the cause of false, intermittent, or no operation of anti-theft system.	AE06
C368	Inspect and test cooling fan, fan clutch, fan shroud, and air dams; perform necessary action.	AE06
C369	Inspect and test electric cooling fan, fan control system and circuits; determine necessary action.	AE06
C334	Diagnose supplemental restraint system (SRS) concerns; determine necessary action. (Note: Follow manufacturer's safety procedures to prevent accidental deployment.)	AE06
C344	Performance test A/C system; diagnose A/C system malfunctions using principles of refrigeration.	AE06
C345	Diagnose abnormal operating noises in the A/C system; determine necessary action.	AE06
C347	Leak test A/C system; determine necessary action.	AE06
C350	Diagnose A/C system conditions that cause the protection devices (pressure, thermal, and PCM) to interrupt system operation; determine necessary action.	AE06
C351*	Inspect and replace A/C compressor drive belts; determine necessary action.	AE06
C352	Inspect, test, and/or replace A/C compressor clutch components and/or assembly.	AE06
C372	Diagnose malfunctions in the electrical controls of heating, ventilation, and A/C (HVAC) systems; determine necessary action.	AE06
C373	Inspect and test A/C-heater blower, motors, resistors, switches, relays, wiring, and protection devices; perform necessary action.	AE06
C374	Test and diagnose A/C compressor clutch control systems; determine necessary action.	AE06
C375*	Diagnose malfunctions in the vacuum, mechanical components and electrical controls of the heating, ventilation, and A/C (HVAC) system; determine necessary action.	AE06
C376	Inspect and test A/C-heater control panel assembly; determine necessary action.	AE06
C377*	Inspect and test A/C-heater control cables, motors and linkages; perform necessary action.	AE06
C378	Inspect A/C-heater ducts, doors, hoses, cabin filters and outlets; perform necessary action.	AE06
C379	Check operation of automatic and semi-automatic heating, ventilation, and air-conditioning (HVAC) control systems; determine necessary action.	AE06
C519	Diagnose and rectify auxiliary equipment electrical faults.	AE06
C553	Inspect, diagnose, and calibrate tire pressure monitoring system.	AE06
C566	Using scan tool, observe and record related HVAC data and trouble codes.	AE06
C584	Diagnose incorrect heated glass, mirror or seat operation; determine necessary action.	AE06

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C451	Identify general shop rules and procedures.	G1
C452	Utilize safe procedures for handling tools and equipment.	G1
C453	Identify and use proper placement of floor jacks and jack stands.	G1
C454	Identify and use proper procedures for safe lift operation.	G1
C465	Locate and demonstrate knowledge of material safety data sheets (MSDS).	G1
C466	Identify tools and their usage in automotive applications.	G1
C467	Identify standard and metric designation.	G1
C468	Demonstrate safe handling and use of appropriate tools.	G1
C469	Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	G1
C473	Identify purpose and demonstrate proper use of fender covers, mats.	G1
C504	Demonstrate understanding of the correct methods of storage and disposal of lubricants, cleaning agents, & contaminants.	G1
C508	Associated Studies Tasksheet - Workshop Key Skills: Identify personal protective equipment and safety features.	G1
C523	Carry out automotive industrial personal workplace requirements.	G2
C533	Store and use hazardous materials in the motor and related industries.	G2
C455	Utilize proper ventilation procedures for working within the lab/shop area.	G2
C456	Identify marked safety areas.	G2
C457	Identify the location and use of fire blankets.	G2
C458	Identify the types and location of fire extinguishers; demonstrate an knowledge of the procedures for using fire extinguishers.	G2
C459	Identify the location and use of eye wash stations.	G2
C460	Identify the location of posted evacuation routes.	G2
C461	Comply with the safe use of safety glasses, gloves, shoes, during lab/shop activities.	G2
C462	Identify and wear appropriate clothing for lab/shop activities.	G2
C463	Comply with appropriate hairstyles for lab/shop activities.	G2
C494	Locate refrigerant label and identify specified refrigerant type. (eg: R-12 R-134a)	G2
C509	Associated Studies Tasksheet - Workshop Key Skills: Identify and document safety related vehicle workshop practices.	G2
C472	Identify information needed and the service requested on a repair order.	G3
C474	Demonstrate use of 3 C's (concern, cause and correction).	G3
C475	Review vehicle service history.	G3
C476	Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover etc).	G3
C510	Associated Studies Tasksheet - Workshop Key Skills: Identify and document compliance and customer related vehicle workshop practices.	G3
C511	Associated Studies Tasksheet: Vehicle Workshop Practices: Research and document organizational structures.	G3
C539	Associated Studies Tasksheet - Use of number - Solve problems using calculations with numbers expressed in different forms.	ICS
C004	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	MR06
C512	Carry out a vehicle safety inspection.	MR06
C529	Bleed air from a diesel fuel system.	MR07

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C348	Inspect the condition of discharged oil; determine necessary action.	MR07
C349	Determine recommended oil for heating and air conditioning system application.	MR07
C353*	Remove, inspect and reinstall A/C compressor and mountings; determine (measure) oil quantity (determine necessary action).	MR07
C354	Determine need for an additional A/C system filter; perform necessary action.	MR07
C355	Remove and inspect A/C system mufflers, hoses, lines, fittings, O-rings, seals, and service valves; perform necessary action.	MR07
C356	Inspect A/C condenser for airflow restrictions; perform necessary action.	MR07
C357*	Remove, inspect and reinstall heating and air conditioning system receiver/drier or accumulator/drier, determine (measure) oil quantity (determine necessary action).	MR07
C358	Remove and install heating and air conditioning system expansion valve or orifice (expansion) tube.	MR07
C359	Inspect heating and air conditioning system evaporator housing water drain; perform necessary action.	MR07
C360*	Remove, inspect and reinstall heating and air conditioning system evaporator; determine required (measure) oil quantity (determine necessary action).	MR07
C361*	Remove, inspect and reinstall heating and air conditioning system condenser; determine required (measure) oil quantity (determine necessary action).	MR07
C380	Perform correct use and maintenance of refrigerant handling equipment.	MR07
C381	Identify (by label application or use of a refrigerant identifier) and recover A/C system refrigerant.	MR07
C382	Recycle refrigerant.	MR07
C383	Label and store refrigerant.	MR07
C384	Test recycled refrigerant for non-condensable gases.	MR07
C385	Evacuate and charge A/C system.	MR07
C389	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	MR07
C390	Diagnose abnormal engine noise or vibration concerns; determine necessary action.	MR07
C391	Diagnose abnormal exhaust color, odor, and sound; determine necessary action.	MR07
C392	Perform engine absolute (vacuum/boost) manifold pressure tests; determine necessary action.	MR07
C393	Perform cylinder power balance test; determine necessary action.	MR07
C394*	Perform cylinder cranking compression tests; determine necessary action.	MR07
C395	Perform cylinder leakage test; determine necessary action.	MR07
C396	Diagnose engine mechanical, electrical, electronic, fuel, and ignition concerns with an oscilloscope and/or engine diagnostic equipment; determine necessary action.	MR07
C397	Prepare 4 or 5 gas analyzer; inspect and prepare vehicle for test, and obtain exhaust readings; interpret readings, and determine necessary action.	MR07
C398	Verify engine operating temperature; determine necessary action.	MR07
C399	Perform cooling system pressure tests; check coolant condition; inspect and test radiator, pressure cap, coolant recovery tank, and hoses; perform necessary action.	MR07
C400	Verify correct camshaft timing.	MR07
C401	Retrieve and record stored OBD I diagnostic trouble codes; clear codes.	MR07
C402*	Retrieve and record stored OBD II diagnostic trouble codes; clear codes when applicable.	MR07

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C403	Diagnose the causes of emissions or drivability concerns resulting from malfunctions in the computerized engine control system with stored diagnostic trouble codes.	MR07
C404	Diagnose emissions or drivability concerns resulting from malfunctions in the computerized engine control system with no stored diagnostic trouble codes; determine necessary action.	MR07
C405	Check for vehicle system module communication (including CAN/BUS systems) errors using a scan tool.	MR07
C406	Inspect and test computerized engine control system sensors, powertrain control module (PCM), actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action.	MR07
C407	Obtain and interpret scan tool data.	MR07
C408	Access and use service information to perform step-by-step diagnosis on engine systems.	MR07
C411	Diagnose ignition system related problems such as no-starting, hard starting, engine misfire, poor drivability, spark knock, power loss, poor mileage, and emissions concerns on vehicles with distributor ignition (DI) systems; determine necessary action.	MR07
C417	Inspect and test ignition system pick-up sensor or triggering devices; perform necessary action.	MR07
C419	Diagnose hot or cold no-starting, hard starting, poor drivability, incorrect idle speed, poor idle, flooding, hesitation, surging, engine misfire, power loss, stalling, poor mileage, dieseling, and emissions problems on vehicles with injection-type fuel systems; determine necessary action.	MR07
C420	Check fuel for contaminants and quality; determine necessary action.	MR07
C421*	Inspect and test (mechanical and electrical) fuel pumps and pump control systems for pressure, regulation and volume; perform necessary action.	MR07
C423	Inspect and test cold enrichment system and components; perform necessary action.	MR07
C424	Inspect throttle body, air induction system, intake manifold and gaskets for vacuum leaks and/or unmetered air.	MR07
C426	Check idle speed and gasoline/petrol fuel mixture.	MR07
C427	Adjust idle speed and gasoline/petrol fuel mixture.	MR07
C429	Perform exhaust system back-pressure test; determine necessary action.	MR07
C430	Test the operation of turbocharger/supercharger systems; determine necessary action.	MR07
C431	Diagnose engine oil leaks, emissions, and drivability problems resulting from malfunctions in the positive crankcase ventilation (PCV) system; determine necessary action.	MR07
C433	Diagnose emissions and drivability problems caused by malfunctions in the exhaust gas recirculation (EGR) system; determine necessary action.	MR07
C435	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; perform necessary action.	MR07
C436	Diagnose emissions and drivability problems resulting from malfunctions in the secondary air injection and catalytic converter systems; determine necessary action.	MR07
C437	Inspect and test mechanical components of secondary air injection systems; perform necessary action.	MR07
C438	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	MR07
C439	Inspect and test catalytic converter performance.	MR07

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C440	Diagnose emissions and drivability problems resulting from malfunctions in the intake air temperature control system; determine necessary action.	MR07
C441	Inspect and test components of intake air temperature control system; perform necessary action.	MR07
C442	Diagnose emissions and drivability problems resulting from malfunctions in the early fuel evaporation control system; determine necessary action.	MR07
C443	Inspect and test components of early fuel evaporation control system; perform necessary action.	MR07
C444	Diagnose emissions and drivability problems resulting from malfunctions in the evaporative emissions control system; determine necessary action.	MR07
C445	Inspect and test components and hoses of evaporative emissions control system; perform necessary action.	MR07
C446	Interpret evaporative emission related diagnostic trouble codes (DTCs); determine necessary action.	MR07
C514	Diagnose and rectify vehicle engine system and component faults.	MR07
C520	Obtain and interpret engine performance data with a scan tool.	MR07
C528	Demonstrate knowledge of a diesel fuel system.	MR07
C570	Perform engine running compression test; determine necessary action.	MR07
C571	Perform active tests of actuators using scan tool; determine necessary action.	MR07
C526	Identify an automotive wiring diagram and translate information to a motor vehicle circuit.	MR08
C527	Carry out automotive wiring repairs and test circuits for serviceability.	MR08
C525	Identify functions of automotive lighting systems, rectify lighting faults and adjust vehicle lamps.	MR08
C339*	Check for module communication (CAN/BUS) errors using a scan tool.	MR08
C171*	Diagnose power steering gear (non-rack and pinion) binding, uneven turning effort, looseness, hard steering, noise and fluid leakage concerns; determine necessary action.	MR08
C172	Diagnose power steering gear (rack and pinion) binding, uneven turning effort, looseness, hard steering, and fluid leakage concerns; determine necessary action.	MR08
C173	Inspect steering shaft universal-joint(s), flexible coupling(s), collapsible column, lock cylinder mechanism, and steering wheel; perform necessary action.	MR08
C174	Adjust manual or power non-rack and pinion worm bearing preload and sector lash.	MR08
C186	Test and diagnose components of electronically controlled steering systems using a scan tool; determine necessary action.	MR08
C204	Test and diagnose components of electronically controlled suspension systems using a scan tool; determine necessary action.	MR08
C277	Diagnose poor stopping, wheel lock-up, abnormal pedal feel or pulsation, and noise concerns caused by the antilock brake system (ABS); determine necessary action.	MR08
C278	Diagnose antilock brake system (ABS) electronic control(s) and components using self-diagnosis and/or recommended test equipment; determine necessary action.	MR08
C279	Depressurized high-pressure components of the antilock brake system (ABS).	MR08
C282	Test, diagnose and service ABS speed sensors, toothed ring (tone wheel), and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO) (includes output signal, resistance, shorts to voltage/ground, and frequency data).	MR08
C283	Diagnose antilock brake system (ABS) braking concerns caused by vehicle modifications (tire size, curb height, final drive ratio, etc.).	MR08

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C284*	Identify traction control/vehicle stability control system components.	MR08
C497	Carry out a full braking system test using a dynamic roller brake tester.	MR08
C515	Diagnose and rectify vehicle chassis system faults.	MR08
C550	Inspect and test non-hydraulic electric-power assist steering.	MR08
C551	Identify hybrid vehicle power steering system electrical circuits, service and safety precautions.	MR08
C581	Inspect and test hydraulically assisted power brake system for leaks and proper operation; determine necessary action.	MR08
C513	Identify and agree customer vehicle needs.	MR10
C540	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Engine Repair)	MR10
C544	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Automatic transmission/transaxle)	MR10
C548	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Manual Drive and axles)	MR10
C549	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Suspension and Steering Systems Diagnosis)	MR10
C554	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Brakes)	MR10
C557	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Electrical and Electronics)	MR10
C565	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(HVAC)	MR10
C569	Complete work order to include customer information, vehicle identifying information, customer concern, related service history, cause, and correction.(Engine Performance)	MR10
C109	Inspect clutch release (throw-out) bearing, lever, and pivot; determine necessary action.	MR11
C110	Inspect and replace clutch pressure plate assembly and clutch disc.	MR11
C112	Inspect, remove or replace primary shaft pilot bearing or bushing (as applicable).	MR11
C005	Diagnose engine noises and vibrations; determine necessary action.	MR11
C006	Diagnose the cause of excessive oil consumption, unusual engine exhaust color, odor, and sound; determine necessary action.	MR11
C007	Perform engine vacuum tests; determine necessary action.	MR11
C008	Perform engine cylinder power balance tests; determine necessary action.	MR11
C009*	Perform engine cylinder cranking compression tests; determine necessary action.	MR11
C010	Perform engine cylinder leakage tests; determine necessary action.	MR11
C013*	Remove cylinder head(s); Visually inspect cylinder head(s) for cracks; check gasket surface areas for warpage and leakage; check passage condition.	MR11
C015	Inspect engine valve springs for squareness and free height comparison; determine necessary action.	MR11
C016	Replace engine valve stem seals on an assembled engine; inspect valve spring retainers, locks, and valve grooves; determine necessary action.	MR11

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C017	Inspect engine valve guides for wear; check valve stem-to-guide clearance; determine necessary action.	MR11
C018	Inspect engine valves and valve seats; determine necessary action.	MR11
C019	Check engine valve face-to-seat contact and valve seat concentricity (runout); determine necessary action.	MR11
C020	Check engine valve spring assembled height and valve stem height; determine necessary action.	MR11
C021	Inspect pushrods, rocker arms, rocker arm pivots and shafts for wear, bending, cracks, looseness, and blocked oil passages (orifices); determine necessary action.	MR11
C022	Inspect engine hydraulic or mechanical lifters; determine necessary action.	MR11
C024	Inspect camshaft drives (including gear wear and backlash, sprocket and chain wear); determine necessary action.	MR11
C026	Inspect camshaft for runout, journal wear and lobe wear.	MR11
C027	Inspect camshaft bearing surface for wear, damage, out-of-round, and alignment; determine necessary action.	MR11
C028	Establish camshaft(s) timing and cam sensor indexing according to manufacturer's specifications and procedures.	MR11
C029	Disassemble engine block; clean and prepare components for inspection and reassembly.	MR11
C030	Inspect engine block for visible cracks, passage condition, core and gallery plug condition, and surface warpage; determine necessary action.	MR11
C031	Inspect internal and external threads in engine blocks; restore as needed (includes installing thread inserts).	MR11
C032*	Inspect and measure engine cylinder walls/Sleeves for damage, wear, and ridges; determine necessary action.	MR11
C033	Deglaze and clean engine cylinder walls.	MR11
C034	Inspect and measure camshaft bearings for wear, damage, out-of-round, and alignment; determine necessary action.	MR11
C035	Inspect crankshaft for end play, straightness, journal damage, keyway damage, thrust flange and sealing surface condition, and visual surface cracks; check oil passage condition; measure journal wear; check crankshaft sensor reluctor ring (where applicable); determine necessary action.	MR11
C036*	Inspect (and measure) main and connecting rod bearings for damage and wear, (clearance and end play); determine necessary action (includes the proper selection of bearings).	MR11
C037*	Identify piston and bearing wear patterns that indicate connecting rod alignment and main bearing bore problems; (inspect rod alignment and bearing bore condition) and determine necessary action.	MR11
C038	Inspect and measure pistons; determine necessary action.	MR11
C039	Remove and replace piston pin.	MR11
C040	Inspect, measure, and install piston rings.	MR11
C041	Inspect engine auxiliary (balance, intermediate, idler, counterbalance or silencer) shaft(s); inspect shaft(s) and support bearings for damage and wear; determine necessary action; reinstall and time.	MR11
C044	Perform engine oil pressure tests; determine necessary action.	MR11
C045	Inspect engine oil pump gears or rotors, housing, pressure relief devices, and pump drive; perform necessary action.	MR11

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C060*	Diagnose transmission/transaxle fluid loss (usage), level, and condition concerns; determine necessary action. Diagnose fluid loss and condition concerns; check fluid level on transmissions with and without dip-stick; determine necessary action	MR11
C061	Perform transmission/transaxle pressure tests; determine necessary action.	MR11
C062	Perform transmission/transaxle stall test; determine necessary action.	MR11
C063	Perform lock-up converter system tests; determine necessary action.	MR11
C069	Inspect, adjust or replace transmission/transaxle (as applicable) vacuum modulator; inspect and repair or replace lines and hoses.	MR11
C070	Inspect, repair, and replace transmission/transaxle governor assembly.	MR11
C071	Inspect and replace transmission/transaxle external seals and gaskets.	MR11
C072	Inspect transmission/transaxle extension housing, bushings and seals; perform necessary action.	MR11
C073	Inspect, leak test, flush, and replace transmission/transaxle cooler, lines, and fittings.	MR11
C074	Inspect and replace speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers.	MR11
C075	Diagnose electronic transmission control systems using a scan tool; determine necessary action.	MR11
C079	Disassemble, clean, and inspect transmission/transaxle.	MR11
C080*	Inspect, measure, clean, and replace transmission/transaxle valve body (includes surfaces, (and) bores, springs, valves, sleeves, retainers, brackets, check-balls, screens, spacers, and gaskets).	MR11
C081	Inspect transmission/transaxle servo bore, piston, seals, pin, spring, and retainers; determine necessary action.	MR11
C082	Inspect transmission/transaxle accumulator bore, piston, seals, spring, and retainer; determine necessary action.	MR11
C083	Assemble transmission/transaxle.	MR11
C084	Inspect converter flex plate, attaching parts, pilot, pump drive, and seal areas.	MR11
C085	Measure torque converter endplay and check for interference; check stator clutch.	MR11
C086	Inspect, measure, and reseal transmission/transaxle oil pump assembly and components.	MR11
C087	Measure transmission/transaxle endplay or preload; determine necessary action.	MR11
C088	Inspect, measure, and replace transmission/transaxle thrust washers and bearings.	MR11
C089	Inspect transmission/transaxle oil delivery seal rings, ring grooves, and sealing surface areas.	MR11
C090	Inspect transmission/transaxle bushings; determine necessary action.	MR11
C091	Inspect and measure planetary gear assembly (includes sun, ring gear, thrust washers, planetary gears, and carrier assembly); determine necessary action.	MR11
C092	Inspect transmission/transaxle case bores, passages, bushings, vents, and mating surfaces; determine necessary action.	MR11
C093	Inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform necessary action.	MR11
C094	Inspect, measure, repair, adjust or replace transaxle final drive components.	MR11
C095	Inspect and reinstall parking pawl, shaft, spring, and retainer; determine necessary action.	MR11
C096	Inspect transmission/transaxle clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates; determine necessary action.	MR11

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C097	Measure transmission/transaxle clutch pack clearance; determine necessary action.	MR11
C098*	Air test the operation of transmission/transaxle clutch and servo assemblies.	MR11
C099	Inspect transmission/transaxle roller and sprag clutch, races, rollers, sprags, springs, cages, and retainers; replace as needed.	MR11
C100	Inspect transmission/transaxle bands and drums; determine necessary action.	MR11
C113	Inspect flywheel and ring gear for wear and cracks, determine necessary action.	MR11
C114	Inspect engine block, clutch (bell) housing, transmission/transaxle case mating surfaces, and alignment dowels; determine necessary action.	MR11
C115	Measure flywheel runout and crankshaft endplay; determine necessary action.	MR11
C117	Disassemble, clean, and reassemble manual transmission/transaxle components.	MR11
C118	Inspect manual transmission/transaxle case, extension housing, case mating surfaces, bores, bushings, and vents; perform necessary action.	MR11
C120	Inspect, adjust, and reinstall manual transmission shift linkages, brackets, bushings, cables, pivots, and levers.	MR11
C122	Inspect and replace manual transmission gaskets, seals, and sealants; inspect sealing surfaces.	MR11
C123	Remove and replace manual transmission transaxle final drive.	MR11
C124	Inspect, adjust, and reinstall manual transmission shift cover, forks, levers, grommets, shafts, sleeves, detent mechanism, interlocks, and springs.	MR11
C125	Measure manual transmission endplay or preload (shim or spacer selection procedure) on transmission/transaxle shafts; perform necessary action.	MR11
C126	Inspect and reinstall manual transmission synchronizer hub, sleeve, keys (inserts), springs, and blocking rings.	MR11
C127	Inspect and reinstall manual transmission speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers.	MR11
C128	Diagnose manual transaxle final drive assembly noise and vibration concerns; determine necessary action.	MR11
C129	Remove, inspect, measure, adjust, and reinstall manual transaxle final drive pinion gears (spiders), shaft, side gears, side bearings, thrust washers, and case assembly.	MR11
C130	Inspect manual transmission lubrication devices (oil pump or slingers); perform necessary action.	MR11
C141	Inspect final drive ring gear and measure runout; determine necessary action.	MR11
C142	Remove, inspect, and reinstall final drive pinion and ring gear, spacers, sleeves, and bearings.	MR11
C143	Measure and adjust final drive pinion depth.	MR11
C144	Measure and adjust final drive pinion bearing preload.	MR11
C145	Measure and adjust side bearing preload and ring and pinion gear total backlash and backlash variation on a differential carrier assembly (threaded cup or shim types).	MR11
C146	Check final drive ring and pinion tooth contact patterns; perform necessary action.	MR11
C147	Disassemble, inspect, measure, and adjust or replace differential pinion gears (spiders), shaft, side gears, side bearings, thrust washers, and case.	MR11
C150*	Clean and Inspect limited slip differential unit (and flush) differential housing; refill with correct lubricant.	MR11
C151	Inspect and reinstall limited slip differential clutch (cone or plate) components.	MR11
C152	Measure limited slip differential rotating torque; determine necessary action.	MR11

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C156	Inspect and replace drive axle shaft seals, bearings, and retainers.	MR11
C157	Measure drive axle flange runout and shaft endplay; determine necessary action.	MR11
C161	Disassemble, service, and reassemble FWD & AWD transfer case and components.	MR11
C542	Perform common fastener and thread repair to include, remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.	MR11
C543	Assemble engine block assembly.	MR11
C572	Perform common fastener and thread repair to include, remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.	MR11
C064	Diagnose transmission/transaxle (electronic), mechanical and (hydraulic), vacuum control system concerns; determine necessary action.	MR13
C065	Diagnose transmission/transaxle noise and vibration concerns; determine necessary action.	MR13
C066	Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	MR13
C101	Identify and interpret drive train concern; determine necessary action.	MR13
C119	Diagnose manual transmission noise, hard shifting, jumping out of gear, and fluid leakage concerns; determine necessary action.	MR13
C132	Diagnose constant-velocity (CV) joint noise and vibration concerns; determine necessary action.	MR13
C133	Diagnose universal joint noise and vibration concerns; perform necessary action.	MR13
C516	Diagnose and rectify vehicle transmission and driveline system faults.	MR13
C545	Diagnose pressure concerns in the transmission using hydraulic principles (Pascal's Law).	MR13
C546	Diagnose electrical/electronic concerns using principals of electricity (Ohm's Law).	MR13
C547	Inspect, leak test, and flush cooler, lines, and fittings.	MR13