

CDX Tasksheet Number	TASKSHEET	ASCUK Auto-Electrical Level 3 NVQ
C559	Repair wiring harness (including CAN/BUS systems).	AE01ME
C401	Retrieve and record stored OBD I diagnostic trouble codes; clear codes.	AE04
C402*	Retrieve and record stored OBD II diagnostic trouble codes; clear codes when applicable.	AE04
C403	Diagnose the causes of emissions or drivability concerns resulting from malfunctions in the computerized engine control system with stored diagnostic trouble codes.	AE04
C404	Diagnose emissions or drivability concerns resulting from malfunctions in the computerized engine control system with no stored diagnostic trouble codes; determine necessary action.	AE04
C405	Check for vehicle system module communication (including CAN/BUS systems) errors using a scan tool.	AE04
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.	AE04
C407	Obtain and interpret scan tool data.	AE04
C408	Access and use service information to perform step-by-step diagnosis on engine systems.	AE04
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.	AE04
C417	Inspect and test ignition system pick-up sensor or triggering devices; perform necessary action.	AE04
C520	Obtain and interpret engine performance data with a scan tool.	AE04
C412	Inspect and test ignition primary circuit wiring and solid state components; perform necessary action.	AE04
C413	Inspect, test and service ignition system distributor.	AE04
C414	Inspect and test ignition system secondary circuit wiring and components; perform necessary action.	AE04
C415	Inspect and test ignition coil(s); perform necessary action.	AE04
C416	Check and adjust ignition system timing and timing advance/retard (where applicable).	AE04
C409	Diagnose drivability and emissions problems resulting from malfunctions of inter-related systems (cruise control, security alarms, suspension controls, traction controls, A/C, automatic transmissions, non-OEM-installed accessories, or similar systems); determine necessary action.	AE04
C517	Diagnose and rectify engine electrical faults.	AE04
C186	Test and diagnose components of electronically controlled steering systems using a scan tool; determine necessary action.	AE05
C204	Test and diagnose components of electronically controlled suspension systems using a scan tool; determine necessary action.	AE05
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).	AE05
C284*	Identify traction control/vehicle stability control system components.	AE05
C550	Inspect and test non-hydraulic electric-power assist steering.	AE05

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C551	Identify hybrid vehicle power steering system electrical circuits, service and safety precautions.	AE05
C546	Diagnose electrical/electronic concerns using principals of electricity (Ohm's Law).	AE05
C168	Disable and enable supplemental restraint system (SRS).	AE05
C518	Diagnose and rectify transmission and chassis electrical faults.	AE05
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
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

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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
C435	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; perform necessary action.	AE06
C438	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	AE06
C330	Diagnose incorrect operation of motor-driven accessory circuits; determine necessary action.	AE06
C332	Diagnose incorrect electric lock operation; determine necessary action.	AE06
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

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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