

CDX Tasksheet Number	TASKSHEET	New NZ Level 2
C002	Research applicable vehicle and service information, such as internal engine operation, vehicle service history, service precautions, and technical service bulletins.	249
C013*	Remove cylinder head(s); Visually inspect cylinder head(s) for cracks; check gasket surface areas for warpage and leakage; check passage condition.	244 + 21688 + 21691
C014*	Install cylinder heads and gaskets; tighten according to manufacturer's specifications and procedures.	244 + 21688 + 21691
C015	Inspect engine valve springs for squareness and free height comparison; determine necessary action.	244 + 21688 + 21691 + 21688 + 21691
C016	Replace engine valve stem seals on an assembled engine; inspect valve spring retainers, locks, and valve grooves; determine necessary action.	244 + 21688 + 21691
C017	Inspect engine valve guides for wear; check valve stem-to-guide clearance; determine necessary action.	244 + 21688 + 21691
C018	Inspect engine valves and valve seats; determine necessary action.	244 + 21688 + 21691
C019	Check engine valve face-to-seat contact and valve seat concentricity (runout); determine necessary action.	244 + 21688 + 21691
C020	Check engine valve spring assembled height and valve stem height; determine necessary action.	244 + 21688 + 21691
C021	Inspect pushrods, rocker arms, rocker arm pivots and shafts for wear, bending, cracks, looseness, and blocked oil passages (orifices); determine necessary action.	244 + 21688 + 21691
C022	Inspect engine hydraulic or mechanical lifters; determine necessary action.	244 + 21688 + 21691
C023	Adjust engine valves (mechanical or hydraulic lifters).	243 + 244 + 21688 + 21691
C025	Inspect and replace timing belts (chains), overhead camdrive sprockets, and tensioners; check belt/chain tension; adjust as necessary.	243 + 244 + 21688 + 21691
C027	Inspect camshaft bearing surface for wear, damage, out-of-round, and alignment; determine necessary action.	243
C029	Disassemble engine block; clean and prepare components for inspection and reassembly.	244 + 21688 + 21691
C030	Inspect engine block for visible cracks, passage condition, core and gallery plug condition, and surface warpage; determine necessary action.	244 + 21688 + 21691
C031	Inspect internal and external threads in engine blocks; restore as needed (includes installing thread inserts).	244 + 21688 + 21691
C032*	Inspect and measure engine cylinder walls/Sleeves for damage, wear, and ridges; determine necessary action.	244 + 21688 + 21691
C033	Deglaze and clean engine cylinder walls.	244 + 21688 + 21691
C034	Inspect and measure camshaft bearings for wear, damage, out-of-round, and alignment; determine necessary action.	244 + 21688 + 21691
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.	244 + 21688 + 21691
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).	244 + 21688 + 21691

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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.	244 + 21688 + 21691
C038	Inspect and measure pistons; determine necessary action.	244 + 21688 + 21691
C039	Remove and replace piston pin.	244 + 21688 + 21691
C040	Inspect, measure, and install piston rings.	244 + 21688 + 21691
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.	244 + 21688 + 21691
C042	Inspect or replace crankshaft vibration damper (harmonic balancer).	244 + 21688 + 21691
C043	Assemble the engine using gaskets, seals, and formed-in-place (tube-applied) sealants, thread sealers, etc. according to manufacturer's specifications.	244 + 21688 + 21691
C044	Perform engine oil pressure tests; determine necessary action.	244 + 21688 + 21691
C045	Inspect engine oil pump gears or rotors, housing, pressure relief devices, and pump drive; perform necessary action.	244 + 21688 + 21691
C046	Perform cooling system, cap, and recovery system tests (pressure, combustion leakage, and temperature); determine necessary action.	243 + 21717
C047	Inspect, replace, and adjust engine drive belts, tensioners, and pulleys; check pulley and belt alignment.	243 + 244 + 21688 + 21691
C048	Inspect and replace engine cooling and heater system hoses.	21717
C049*	Inspect, test, and replace thermostat (and housing) and gasket.	21717
C050	Test coolant; drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required.	21690 + 21717 + 244 + 21688 + 21691
C051	Inspect, test, remove, and replace water pump.	21717
C052	Remove and replace radiator.	21717
C053	Inspect, and test fans(s) (electrical or mechanical), fan clutch, fan shroud, and air dams.	21717
C054	Inspect auxiliary engine oil coolers; determine necessary action.	244 + 21688 + 21691
C055	Inspect, test, and replace engine oil temperature and pressure switches and sensors.	243
C056	Perform engine oil and filter change.	21690 + 244 + 21688 + 21691
C058*	Research applicable vehicle and service information, such as transmission/trans-axle system operation, vehicle service history, service precautions, Fluid type and technical service bulletins.	249
C102*	Research applicable vehicle and service information, such as drive train system operation, Fluid type, vehicle service history, service precautions, and technical service bulletins.	249
C111	Bleed clutch hydraulic system.	21689
C166	Research applicable vehicle and service information, such as suspension and steering system operation, vehicle service history, service precautions, and technical service bulletins.	249

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C220	Inspect tires; check and adjust air pressure.	21722 + 21869 + 21690
C221	Diagnose wheel/tire vibrations, shimmy, and noise; determine necessary action.	21722 + 21869
C222	Rotate tires according to manufacturer's recommendations.	21869 + 21690
C224	Diagnose tire pull (lead) problem; determine necessary action.	21722
C225	Balance wheel and tire assembly (static and dynamic).	21722
C226*	Dismount, inspect, (repair,) and remount tire on wheel.	21869
C227	Reinstall wheel; torque lug nuts.	21869 + 21690
C230	Research applicable vehicle and service information, such as brake system operation, vehicle service history, service precautions, and technical service bulletins.	249
C235	Remove, bench bleed, and reinstall master cylinder.	21689
C243	Bleed (manual, pressure, vacuum or surge) brake system.	21689
C244	Flush hydraulic brake system.	21689
C280	Bleed the antilock brake system's (ABS) front and rear hydraulic circuits.	21689
C286	Research applicable vehicle and service information, such as electrical/electronic system operation, vehicle service history, service precautions, and technical service bulletins.	249
C288*	Diagnose electrical/electronic integrity of (for) series, parallel and series-parallel circuits using principles of electricity (Ohm's Law).	21667 + 21707
C289	Use wiring diagrams during diagnosis of electrical circuit problems.	21667
C290	Demonstrate the proper use of a digital multimeter (DMM) during diagnosis of electrical circuit problems.	21676
C291	Check electrical circuits with a test light; determine necessary action.	21667 + 21676
C292	Measure source voltage and perform voltage drop tests in electrical/electronic circuits using a voltmeter; determine necessary action.	21676
C293	Measure current flow in electrical/electronic circuits and components using an ammeter; determine necessary action.	21667 + 21676
C294	Check continuity and measure resistance in electrical/electronic circuits and components using an ohmmeter; determine necessary action.	21676
C295	Check electrical circuits using fused jumper wires; determine necessary action.	21676
C296	Locate shorts, grounds, opens, and resistance problems in electrical/electronic circuits; determine necessary action.	21667 + 21676
C297	Measure and diagnose the cause(s) of excessive key-off battery drain (parasitic draw); determine necessary action.	21667
C299*	Inspect and test switches, connectors, relays, solenoid solid state devices, and wires of electrical/electronic circuits; perform necessary action.	243 + 21667
C300	Repair wiring harnesses and connectors.	21667
C301	Perform solder repair of electrical wiring.	21667
C302	Perform battery state-of-charge test; determine necessary action.	21675
C303	Perform battery capacity test; confirm proper battery capacity for vehicle application; determine necessary action.	21675
C304	Maintain or restore electronic memory functions.	21667
C305	Inspect, clean, fill, and replace battery.	21675
C306	Perform slow/fast battery charge.	21675
C307	Inspect and clean battery cables, connectors, clamps, and hold-downs; repair or replace as needed.	21675

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C308	Start a vehicle using jumper cables and a battery or auxiliary power supply.	21675
C321	Inspect, replace, and aim headlights and bulbs.	21719 + 21690
C337	Remove and reinstall door panel.	21698
C342	Research applicable vehicle and service information, such as heating and air conditioning system operation, vehicle service history, service precautions, and technical service bulletins.	249
C366	Determine coolant condition and coolant type for vehicle application; drain and recover coolant.	21690
C367	Flush system; refill system with recommended coolant; bleed system.	21690
C387	Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, and technical service bulletins.	249
C389	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	21690
C396	Diagnose engine mechanical, electrical, electronic, fuel, and ignition concerns with an oscilloscope and/or engine diagnostic equipment; determine necessary action.	243
C400	Verify correct camshaft timing.	243
C413	Inspect, test and service ignition system distributor.	243
C414	Inspect and test ignition system secondary circuit wiring and components; perform necessary action.	243
C415	Inspect and test ignition coil(s); perform necessary action.	243
C416	Check and adjust ignition system timing and timing advance/retard (where applicable).	243
C417	Inspect and test ignition system pick-up sensor or triggering devices; perform necessary action.	243
C420	Check fuel for contaminants and quality; determine necessary action.	243
C421*	Inspect and test (mechanical and electrical) fuel pumps and pump control systems for pressure, regulation and volume; perform necessary action.	243
C422	Replace fuel filters.	243 + 21690
C425	Inspect and test gasoline/petrol fuel injectors.	243
C427	Adjust idle speed and gasoline/petrol fuel mixture.	243
C431	Diagnose engine oil leaks, emissions, and drivability problems resulting from malfunctions in the positive crankcase ventilation (PCV) system; determine necessary action.	243
C432	Inspect, test and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.	243
C434	Inspect, test, service and replace components of the EGR system, including EGR tubing, exhaust passages, vacuum/pressure controls, filters and hoses; perform necessary action.	243
C439	Inspect and test catalytic converter performance.	243
C443	Inspect and test components of early fuel evaporation control system; perform necessary action.	243
C447	Adjust valves on engines with mechanical or hydraulic lifters.	21690
C449*	Remove and replace thermostat and gasket.	21690
C451	Identify general shop rules and procedures.	249 + 21858
C452	Utilize safe procedures for handling tools and equipment.	21858
C453	Identify and use proper placement of floor jacks and jack stands.	21858

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C454	Identify and use proper procedures for safe lift operation.	21858
C455	Utilize proper ventilation procedures for working within the lab/shop area.	249 + 21858
C456	Identify marked safety areas.	21858
C457	Identify the location and use of fire blankets.	3856
C458	Identify the types and location of fire extinguishers; demonstrate an knowledge of the procedures for using fire extinguishers.	3856
C459	Identify the location and use of eye wash stations.	3856
C460	Identify the location of posted evacuation routes.	3856
C461	Comply with the safe use of safety glasses, gloves, shoes, during lab/shop activities.	21858
C462	Identify and wear appropriate clothing for lab/shop activities.	21858
C463	Comply with appropriate hairstyles for lab/shop activities.	21858
C465	Locate and demonstrate knowledge of material safety data sheets (MSDS).	3856 + 21700 + 21718
C466	Identify tools and their usage in automotive applications.	21671 + 21669 + 21859
C467	Identify standard and metric designation.	21670
C468	Demonstrate safe handling and use of appropriate tools.	21671+ 21669 +21859
C469	Demonstrate proper cleaning, storage, and maintenance of tools and equipment.	21670 + 21669 + 21859
C476	Ensure vehicle is prepared to return to customer per school/company policy (floor mats, steering wheel cover etc).	247 + 21690
C477	Check and adjust engine oil level.	247 + 21690
C478	Check and adjust engine coolant level.	247 + 21690
C479	Check and adjust power steering fluid level.	247 + 21690
C480	Check and adjust brake fluid level.	247 + 21690
C481	Check and adjust windshield washer fluid level.	247 + 21690
C482	Check and replace wiper blades.	247 + 21690
C483	Check and adjust differential/transfer case fluid level.	247 + 21690
C484	Check and adjust transmission fluid level.	247 + 21690
C485	Inspect, replace, and adjust drive belts, tensioners, and pulleys; check pulley and belt alignment.	21690
C486	Inspect and replace air filter.	21690
C487	Determine fluid type requirements and identify fluid.	21690
C498	Inspect and test a diesel (CI) fuel injector.	21692
C499	Remove and refit rotary diesel (CI) fuel injector pump.	21692
C503	Replace diesel (CI) engine fuel filter.	21692 + 21690
C504	Demonstrate understanding of the correct methods of storage and disposal of lubricants, cleaning agents, & contaminates.	924 + 21700 + 21718
C505	Recognize different vehicle types and body components.	229
C506	Carry out vehicle body adjustments and access vehicle components.	229
C508	Associated Studies Tasksheet - Workshop Key Skills: Identify personal protective equipment and safety features.	21858

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C509	Associated Studies Tasksheet - Workshop Key Skills: Identify and document safety related vehicle workshop practices.	249 + 3856 + 21718
C510	Associated Studies Tasksheet - Workshop Key Skills: Identify and document compliance and customer related vehicle workshop practices.	249
C511	Associated Studies Tasksheet: Vehicle Workshop Practices: Research and document organizational structures.	21857
C513	Identify and agree customer vehicle needs.	249
C521	Carry out general engineering tasks in the motor industry.	21761
C522	Use an Oxy-acetylene welding plant.	21685
C523	Carry out automotive industrial personal workplace requirements.	249
C524	Select test equipment and test an automotive electrical circuit.	21676
C528	Demonstrate knowledge of a diesel fuel system.	21677
C529	Bleed air from a diesel fuel system.	21692
C530	Remove, repair, and/or replace and or machine exhaust system.	21678
C531	Maintain stock security in the motor and related industries.	21708
C532	Select and use fastening systems used in the motor industry.	21715
C533	Store and use hazardous materials in the motor and related industries.	21700
C534	Identify the locations and functions of motor vehicle systems and main components.	229
C535	Select and apply lubricants and sealants for automotive and related industry applications.	21716
C536	Prepare a vehicle and /or machine for use and shutdown after use.	247
C537	Clean automotive components and maintain cleaning equipment.	924
C538	Remove and replace exterior and interior motor body parts and trim in the motor industry.	21698
C539	Associated Studies Tasksheet - Use of number - Solve problems using calculations with numbers expressed in different forms.	8940
C542	Perform common fastener and thread repair to include, remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.	21670
C543	Assemble engine block assembly.	11728
C559	Repair wiring harness (including CAN/BUS systems).	21090
C568	Perform cooling system pressure tests; check coolant condition, inspect and test radiator, pressure cap, coolant recovery tank, and hoses; perform necessary action.	21717
C572	Perform common fastener and thread repair to include, remove broken bolt, restore internal and external threads, and repair internal threads with thread insert.	21670
C573	Perform oil and filter changes.	15406
C574	Demonstrate proficiency in using oxy-acetylene torch to heat and cut metal.	21682
C576	Visually inspect cylinder head(s) for cracks; check gasket surface areas for warpage and leakage; check passage condition.	11727
C577	Remove and reinstall cylinder heads and gaskets; tighten according to manufacturer's specifications and procedures.	11727
C578	Perform cooling system pressure tests; check coolant condition; inspect and test radiator, pressure cap, coolant recovery tank, and hoses; determine necessary action.	21717
C587	Perform battery capacity test(or conductance test) ; confirm proper battery capacity for vehicle application; determine necessary action.	21675