

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C001	Identify and interpret engine concern; determine necessary action.	1A01	P1
C002	Research applicable vehicle and service information, such as internal engine operation, vehicle service history, service precautions, and technical service bulletins.	1A02	P1
C003	Locate and interpret vehicle engine and major component identification numbers (VIN, vehicle certification labels, and calibration decals).	1A03	P1
C004	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	1A04	P1
C005	Diagnose engine noises and vibrations; determine necessary action.	1A05	P2
C006	Diagnose the cause of excessive oil consumption, unusual engine exhaust color, odor, and sound; determine necessary action.	1A06	P2
C007	Perform engine vacuum tests; determine necessary action.	1A07	P1
C008	Perform engine cylinder power balance tests; determine necessary action.	1A08	P1
C009*	Perform engine cylinder cranking compression tests; determine necessary action.	1A09	P1
C010	Perform engine cylinder leakage tests; determine necessary action.	1A10	P1
C011*	Remove and reinstall engine in a late model front-wheel drive vehicle (OBD II or newer); reconnect all attaching components and restore the vehicle to running condition.	1A11	P2
C013*	Remove cylinder head(s); Visually inspect cylinder head(s) for cracks; check gasket surface areas for warpage and leakage; check passage condition.	1B01	P2
C014*	Install cylinder heads and gaskets; tighten according to manufacturer's specifications and procedures.	1B02	P1
C015	Inspect engine valve springs for squareness and free height comparison; determine necessary action.	1B03	P2
C016	Replace engine valve stem seals on an assembled engine; inspect valve spring retainers, locks, and valve grooves; determine necessary action.	1B04	P2
C017	Inspect engine valve guides for wear; check valve stem-to-guide clearance; determine necessary action.	1B05	P3
C018	Inspect engine valves and valve seats; determine necessary action.	1B06	P3
C019	Check engine valve face-to-seat contact and valve seat concentricity (run-out); determine necessary action.	1B07	P3
C020	Check engine valve spring assembled height and valve stem height; determine necessary action.	1B08	P3
C021	Inspect pushrods, rocker arms, rocker arm pivots and shafts for wear, bending, cracks, looseness, and blocked oil passages (orifices); determine necessary action.	1B09	P2
C030	Inspect engine block for visible cracks, passage condition, core and gallery plug condition, and surface warpage; determine necessary action.	1C02	P2
C031	Inspect internal and external threads in engine blocks; restore as needed (includes installing thread inserts).	1C03	P2
C032*	Inspect and measure engine cylinder walls/Sleeves for damage, wear, and ridges; determine necessary action.	1C04	P2
C033	Deglaze and clean engine cylinder walls.	1C05	P2
C034	Inspect and measure camshaft bearings for wear, damage, out-of-round, and alignment; determine necessary action.	1C06	P3

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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.	1C07	P2
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).	1C08	P2
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.	1C09	P3
C038	Inspect and measure pistons; determine necessary action.	1C10	P2
C039	Remove and replace piston pin.	1C11	P3
C040	Inspect, measure, and install piston rings.	1C12	P2
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.	1C13	P2
C042	Inspect or replace crankshaft vibration damper (harmonic balancer).	1C14	P3
C043	Assemble the engine using gaskets, seals, and formed-in-place (tube-applied) sealants, thread sealers, etc. according to manufacturer's specifications.	1C15	P2
C044	Perform engine oil pressure tests; determine necessary action.	1D01	P1
C045	Inspect engine oil pump gears or rotors, housing, pressure relief devices, and pump drive; perform necessary action.	1D02	P2
C046	Perform cooling system, cap, and recovery system tests (pressure, combustion leakage, and temperature); determine necessary action.	1D03	P1
C047	Inspect, replace, and adjust engine drive belts, tensioners, and pulleys; check pulley and belt alignment.	1D04	P1
C048	Inspect and replace engine cooling and heater system hoses.	1D05	P1
C049*	Inspect, test, and replace thermostat (and housing) and gasket.	1D06	P1
C050	Test coolant; drain and recover coolant; flush and refill cooling system with recommended coolant; bleed air as required.	1D07	P1
C051	Inspect, test, remove, and replace water pump.	1D08	P1
C052	Remove and replace radiator.	1D09	P2
C053	Inspect, and test fans(s) (electrical or mechanical), fan clutch, fan shroud, and air dams.	1D10	P1
C054	Inspect auxiliary engine oil coolers; determine necessary action.	1D11	P3
C055	Inspect, test, and replace engine oil temperature and pressure switches and sensors.	1D12	P2
C056	Perform engine oil and filter change.	1D13	P1
C057	Identify and interpret transmission/transaxle concern; assure proper engine operation; determine necessary action.	2A01	P1
C058*	Research applicable vehicle and service information, such as transmission/transaxle system operation, vehicle service history, service precautions, Fluid type and technical service bulletins.	2A02	P1
C059	Locate and interpret vehicle and major transmission/transaxle component identification numbers (VIN, vehicle certification labels, and calibration decals).	2A03	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
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	2A04	P1
C061	Perform transmission/transaxle pressure tests; determine necessary action.	2A05	P1
C062	Perform transmission/transaxle stall test; determine necessary action.	2A06	P3
C063	Perform lock-up converter system tests; determine necessary action.	2A07	P3
C064	Diagnose transmission/transaxle (electronic), mechanical and (hydraulic), vacuum control system concerns; determine necessary action.	2A08	P2
C065	Diagnose transmission/transaxle noise and vibration concerns; determine necessary action.	2A09	P2
C066	Diagnose transmission/transaxle gear reduction/multiplication concerns using driving, driven, and held member (power flow) principles.	2A10	P1
C067	Inspect, adjust or replace throttle valve (TV) linkages or cables; manual shift linkages or cables; transmission range sensor; check gear select indicator (as applicable).	2B01	P1
C068	Service transmission; perform visual inspection; replace fluids and filters.	2B02	P1
C069	Inspect, adjust or replace transmission/transaxle (as applicable) vacuum modulator; inspect and repair or replace lines and hoses.	2C01	P3
C070	Inspect, repair, and replace transmission/transaxle governor assembly.	2C02	P3
C071	Inspect and replace transmission/transaxle external seals and gaskets.	2C03	P2
C072	Inspect transmission/transaxle extension housing, bushings and seals; perform necessary action.	2C04	P3
C073	Inspect, leak test, flush, and replace transmission/transaxle cooler, lines, and fittings.	2C05	P2
C074	Inspect and replace speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers.	2C06	P2
C075	Diagnose electronic transmission control systems using a scan tool; determine necessary action.	2C07	P1
C076	Inspect, replace, and align powertrain mounts.	2C08	P2
C077	Remove and reinstall transmission and torque converter (rear-wheel drive).	2D101	P2
C078	Remove and reinstall transaxle and torque converter assembly.	2D102	P1
C079	Disassemble, clean, and inspect transmission/transaxle.	2D103	P1
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).	2D104	P2
C081	Inspect transmission/transaxle servo bore, piston, seals, pin, spring, and retainers; determine necessary action.	2D105	P3
C082	Inspect transmission/transaxle accumulator bore, piston, seals, spring, and retainer; determine necessary action.	2D106	P3
C083	Assemble transmission/transaxle.	2D107	P1
C084	Inspect converter flex plate, attaching parts, pilot, pump drive, and seal areas.	2D201	P2
C085	Measure torque converter endplay and check for interference; check stator clutch.	2D202	P2
C086	Inspect, measure, and reseal transmission/transaxle oil pump assembly and components.	2D203	P1

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C087	Measure transmission/transaxle endplay or preload; determine necessary action.	2D301	P1
C088	Inspect, measure, and replace transmission/transaxle thrust washers and bearings.	2D302	P2
C089	Inspect transmission/transaxle oil delivery seal rings, ring grooves, and sealing surface areas.	2D303	P2
C090	Inspect transmission/transaxle bushings; determine necessary action.	2D304	P2
C091	Inspect and measure planetary gear assembly (includes sun, ring gear, thrust washers, planetary gears, and carrier assembly); determine necessary action.	2D305	P2
C092	Inspect transmission/transaxle case bores, passages, bushings, vents, and mating surfaces; determine necessary action.	2D306	P2
C093	Inspect transaxle drive, link chains, sprockets, gears, bearings, and bushings; perform necessary action.	2D307	P2
C094	Inspect, measure, repair, adjust or replace transaxle final drive components.	2D308	P2
C095	Inspect and reinstall parking pawl, shaft, spring, and retainer; determine necessary action.	2D309	P3
C096	Inspect transmission/transaxle clutch drum, piston, check-balls, springs, retainers, seals, and friction and pressure plates; determine necessary action.	2D401	P2
C097	Measure transmission/transaxle clutch pack clearance; determine necessary action.	2D402	P1
C098*	Air test the operation of transmission/transaxle clutch and servo assemblies.	2D403	P1
C099	Inspect transmission/transaxle roller and sprag clutch, races, rollers, sprags, springs, cages, and retainers; replace as needed.	2D404	P1
C100	Inspect transmission/transaxle bands and drums; determine necessary action.	2D405	P2
C101	Identify and interpret drive train concern; determine necessary action.	3A01	P1
C102*	Research applicable vehicle and service information, such as drive train system operation, Fluid type, vehicle service history, service precautions, and technical service bulletins.	3A02	P1
C103	Locate and interpret vehicle and major drive train system component identification numbers (VIN, vehicle certification labels, calibration decals).	3A03	P1
C104*	Diagnose drive train system fluid loss (usage), level, and condition concerns; determine necessary action.	3A04	P1
C105	Drain and fill manual transmission/transaxle and final drive unit.	3A05	P1
C106	Diagnose clutch noise, binding, slippage, pulsation, and chatter; determine necessary action.	3B01	P1
C107	Inspect clutch pedal linkage, cables, automatic adjuster mechanisms, brackets, bushings, pivots, and springs; perform necessary action.	3B02	P1
C108	Inspect hydraulic clutch slave and master cylinders, lines, and hoses; determine necessary action.	3B03	P1
C109	Inspect clutch release (throw-out) bearing, lever, and pivot; determine necessary action.	3B04	P1
C110	Inspect and replace clutch pressure plate assembly and clutch disc.	3B05	P1
C111	Bleed clutch hydraulic system.	3B06	P1
C112	Inspect, remove or replace primary shaft pilot bearing or bushing (as applicable).	3B07	P1

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C113	Inspect flywheel and ring gear for wear and cracks, determine necessary action.	3B08	P1
C114	Inspect engine block, clutch (bell) housing, transmission/transaxle case mating surfaces, and alignment dowels; determine necessary action.	3B09	P3
C115	Measure flywheel runout and crankshaft endplay; determine necessary action.	3B10	P2
C116	Remove and reinstall manual transmission/transaxle.	3C01	P1
C117	Disassemble, clean, and reassemble manual transmission/transaxle components.	3C02	P1
C118	Inspect manual transmission/transaxle case, extension housing, case mating surfaces, bores, bushings, and vents; perform necessary action.	3C03	P3
C119	Diagnose manual transmission noise, hard shifting, jumping out of gear, and fluid leakage concerns; determine necessary action.	3C04	P2
C120	Inspect, adjust, and reinstall manual transmission shift linkages, brackets, bushings, cables, pivots, and levers.	3C05	P2
C121	Inspect and reinstall manual transmission powertrain mounts.	3C06	P2
C122	Inspect and replace manual transmission gaskets, seals, and sealants; inspect sealing surfaces.	3C07	P2
C123	Remove and replace manual transmission transaxle final drive.	3C08	P3
C124	Inspect, adjust, and reinstall manual transmission shift cover, forks, levers, grommets, shafts, sleeves, detent mechanism, interlocks, and springs.	3C09	P2
C125	Measure manual transmission endplay or preload (shim or spacer selection procedure) on transmission/transaxle shafts; perform necessary action.	3C10	P1
C126	Inspect and reinstall manual transmission synchronizer hub, sleeve, keys (inserts), springs, and blocking rings.	3C11	P1
C127	Inspect and reinstall manual transmission speedometer drive gear, driven gear, vehicle speed sensor (VSS), and retainers.	3C12	P2
C128	Diagnose manual transaxle final drive assembly noise and vibration concerns; determine necessary action.	3C13	P3
C129	Remove, inspect, measure, adjust, and reinstall manual transaxle final drive pinion gears (spiders), shaft, side gears, side bearings, thrust washers, and case assembly.	3C14	P2
C130	Inspect manual transmission lubrication devices (oil pump or slingers); perform necessary action.	3C15	P3
C131	Inspect, test, and replace manual transmission/transaxle sensors and switches.	3C16	P1
C132	Diagnose constant-velocity (CV) joint noise and vibration concerns; determine necessary action.	3D01	P1
C133	Diagnose universal joint noise and vibration concerns; perform necessary action.	3D02	P1
C134*	Remove and replace front wheel drive (FWD) front wheel bearing.	3D03	P1
C135	Inspect, service, and replace drive shafts, yokes, boots, and CV joints.	3D04	P1
C136	Inspect, service, and replace propellor shaft center support bearings.	3D05	P3
C137*	Check propellor shaft balance and phasing; measure shaft runout; measure and adjust driveline angles.	3D06	P2
C138	Diagnose live axle noise and vibration concerns; determine necessary action.	3E101	P2
C139	Diagnose live axle fluid leakage concerns; determine necessary action.	3E102	P1

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C140	Inspect and replace live axle companion flange and pinion seal; measure companion flange runout.	3E103	P2
C141	Inspect final drive ring gear and measure runout; determine necessary action.	3E104	P2
C142	Remove, inspect, and reinstall final drive pinion and ring gear, spacers, sleeves, and bearings.	3E105	P2
C143	Measure and adjust final drive pinion depth.	3E106	P2
C144	Measure and adjust final drive pinion bearing preload.	3E107	P2
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).	3E108	P2
C146	Check final drive ring and pinion tooth contact patterns; perform necessary action.	3E109	P2
C147	Disassemble, inspect, measure, and adjust or replace differential pinion gears (spiders), shaft, side gears, side bearings, thrust washers, and case.	3E110	P2
C148	Reassemble and reinstall differential case assembly; measure runout; determine necessary action.	3E111	P2
C149	Diagnose limited slip differential noise, slippage, and chatter concerns; determine necessary action.	3E201	P3
C150*	Clean and inspect limited slip differential unit (and flush) differential housing; refill with correct lubricant.	3E202	P2
C151	Inspect and reinstall limited slip differential clutch (cone or plate) components.	3E203	P3
C152	Measure limited slip differential rotating torque; determine necessary action.	3E204	P3
C153	Diagnose drive axle shafts, bearings, and seals for noise, vibration, and fluid leakage concerns; determine necessary action.	3E301	P2
C154	Inspect and replace drive axle shaft wheel studs.	3E302	P1
C155	Remove and replace drive axle shafts.	3E303	P1
C156	Inspect and replace drive axle shaft seals, bearings, and retainers.	3E304	P2
C157	Measure drive axle flange runout and shaft endplay; determine necessary action.	3E305	P2
C158	Diagnose FWD & AWD noise, vibration, and unusual steering concerns; determine necessary action.	3F01	P3
C159	Inspect, adjust, and repair FWD & AWD shifting controls (mechanical, electrical, and vacuum), bushings, mounts, levers, and brackets.	3F02	P3
C160	Remove and reinstall FWD & AWD transfer case.	3F03	P3
C161	Disassemble, service, and reassemble FWD & AWD transfer case and components.	3F04	P3
C162	Inspect FWD front-wheel bearings and locking hubs; perform necessary action.	3F05	P3
C163	Check FWD & AWD drive assembly seals and vents; check lube level.	3F06	P3
C164	Diagnose test, adjust, and replace FWD & AWD electrical/electronic components of four-wheel drive systems.	3F07	P3
C165	Identify and interpret suspension and steering concern; determine necessary action.	4A01	P1
C166	Research applicable vehicle and service information, such as suspension and steering system operation, vehicle service history, service precautions, and technical service bulletins.	4A02	P1

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C167	Locate and interpret vehicle and major suspension and steering component identification numbers (VIN, vehicle certification labels, calibration decals).	4A03	P1
C168	Disable and enable supplemental restraint system (SRS).	4B01	P1
C169	Remove and replace steering wheel; center/time supplemental restraint system (SRS) coil (clock spring).	4B02	P1
C170	Diagnose steering column noises, looseness, and binding concerns (including tilt mechanisms); determine necessary action.	4B03	P2
C171*	Diagnose power steering gear (non-rack and pinion) binding, uneven turning effort, looseness, hard steering, noise and fluid leakage concerns; determine necessary action.	4B04	P3
C172	Diagnose power steering gear (rack and pinion) binding, uneven turning effort, looseness, hard steering, and fluid leakage concerns; determine necessary action.	4B05	P3
C173	Inspect steering shaft universal-joint(s), flexible coupling(s), collapsible column, lock cylinder mechanism, and steering wheel; perform necessary action.	4B06	P2
C174	Adjust manual or power non-rack and pinion worm bearing preload and sector lash.	4B07	P3
C175	Remove and replace manual or power rack and pinion steering gear; inspect mounting bushings and brackets.	4B08	P1
C176	Inspect and replace manual or power rack and pinion steering gear inner tie rod ends (sockets) and bellows boots.	4B09	P1
C177*	(Inspect power steering fluid levels and condition.) Determine proper power steering fluid type; inspect fluid level and condition.	4B10	P1
C178	Flush, fill, and bleed power steering system.	4B11	P2
C179	Diagnose power steering fluid leakage; determine necessary action.	4B12	P2
C180	Remove, inspect, replace, and adjust power steering pump belt.	4B13	P1
C181	Remove and reinstall power steering pump.	4B14	P3
C182	Remove and reinstall power steering pump pulley; check pulley and belt alignment.	4B15	P3
C183	Inspect and replace power steering hoses and fittings.	4B16	P2
C184	Inspect and replace pitman arm, relay (centerlink/intermediate) rod, idler arm and mountings, and steering linkage damper.	4B17	P2
C185	Inspect, replace, and adjust tie rod ends (sockets), tie rod sleeves, and clamps.	4B18	P1
C186	Test and diagnose components of electronically controlled steering systems using a scan tool; determine necessary action.	4B19	P3
C187	Diagnose short and long arm suspension system noises, body sway, and uneven riding height concerns; determine necessary action.	4C101	P1
C188	Diagnose strut suspension system noises, body sway, and uneven riding height concerns; determine necessary action.	4C102	P1
C189	Remove, inspect, and install suspension upper and lower control arms, bushings, shafts, and rebound bumpers.	4C103	P3
C190	Remove, inspect and install suspension strut rods (compression/tension) and bushings.	4C104	P2
C191	Remove, inspect, and install suspension upper and/or lower ball joints.	4C105	P1
C192	Remove, inspect, and install steering knuckle assemblies.	4C106	P2
C193	Remove, inspect, and install short and long arm suspension system coil springs and spring insulators.	4C107	P3

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C194	Remove, inspect, install, and adjust suspension system torsion bars; inspect mounts.	4C108	P3
C195	Remove, inspect, and install suspension stabilizer bar bushings, brackets, and links.	4C109	P2
C196	Remove, inspect, and install suspension strut cartridge or assembly, strut coil spring, insulators (silencers), and upper strut bearing mount.	4C110	P1
C197	Lubricate suspension and steering systems.	4C111	P2
C198	Remove, inspect, and install suspension coil springs and spring insulators.	4C201	P2
C199	Remove, inspect, and install suspension transverse links, control arms, bushings, and mounts.	4C202	P2
C200	Remove, inspect, and install suspension leaf springs, leaf spring insulators (silencers), shackles, brackets, bushings, and mounts.	4C203	P3
C201	Remove, inspect, and install suspension strut cartridge or assembly, strut coil spring, and insulators (silencers).	4C204	P2
C202	Inspect, remove, and replace shock absorbers.	4C301	P1
C203	Remove, inspect, and service or replace front and rear wheel bearings.	4C302	P1
C204	Test and diagnose components of electronically controlled suspension systems using a scan tool; determine necessary action.	4C303	P3
C205	Differentiate between steering and suspension concerns using principles of steering geometry (caster, camber, toe, etc).	4D01	P1
C206	Diagnose vehicle wander, drift, pull, hard steering, bump steer, memory steer, torque steer, and steering return concerns; determine necessary action.	4D02	P1
C207	Perform prealignment inspection; perform necessary action.	4D03	P1
C208	Measure vehicle riding height; determine necessary action.	4D04	P1
C209	Check and adjust front and rear wheel camber; perform necessary action.	4D05	P1
C210	Check and adjust caster; perform necessary action.	4D06	P1
C211*	Check and adjust front wheel toe and center steering wheel; (adjust as needed).	4D07	P1
C212	Center steering wheel.	4D08	P1
C213	Check toe-out-on-turns (turning radius); determine necessary action.	4D09	P2
C214	Check SAI (steering axis inclination) and included angle; determine necessary action.	4D10	P2
C215	Check and adjust rear wheel toe.	4D11	P1
C216	Check rear wheel thrust angle; determine necessary action.	4D12	P1
C217	Check for front wheel setback; determine necessary action.	4D13	P2
C218	Check front cradle (subframe) alignment; determine necessary action.	4D14	P3
C219	Diagnose tire wear patterns; determine necessary action.	4E01	P1
C220	Inspect tires; check and adjust air pressure.	4E02	P1
C221	Diagnose wheel/tire vibrations, shimmy, and noise; determine necessary action.	4E03	P2
C222	Rotate tires according to manufacturer's recommendations.	4E04	P1
C223	Measure wheel, tire, axle, and hub runout; determine necessary action.	4E05	P2
C224	Diagnose tire pull (lead) problem; determine necessary action.	4E06	P2
C225	Balance wheel and tire assembly (static and dynamic).	4E07	P1
C226*	Dismount, inspect, (repair,) and remount tire on wheel.	4E08	P2

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C227	Reinstall wheel; torque lug nuts.	4E09	P1
C228	Inspect and repair tire.	4E10	P2
C229	Identify and interpret brake system concern; determine necessary action.	5A01	P1
C230	Research applicable vehicle and service information, such as brake system operation, vehicle service history, service precautions, and technical service bulletins.	5A02	P1
C231	Locate and interpret vehicle and major brake system component identification numbers (VIN, vehicle certification labels, calibration decals).	5A03	P1
C232	Diagnose pressure concerns in the brake system using hydraulic principles (Pascal's Law).	5B01	P1
C233	Measure brake pedal height; determine necessary action.	5B02	P2
C234	Check master cylinder for internal and external leaks and proper operation; determine necessary action.	5B03	P2
C235	Remove, bench bleed, and reinstall master cylinder.	5B04	P1
C236	Diagnose poor stopping, pulling or dragging concerns caused by malfunctions in the hydraulic system; determine necessary action.	5B05	P1
C237	Inspect brake lines, flexible hoses, and fittings for leaks, dents, kinks, rust, cracks, bulging or wear; tighten loose fittings and supports; determine necessary action.	5B06	P2
C238	Fabricate and/or install brake lines (double flare and ISO types); replace hoses, fittings, and supports as needed.	5B07	P2
C239	Select, handle, store, and fill brake fluids to proper level.	5B08	P1
C240	Inspect, test, and/or replace brake system metering (hold-off), proportioning (balance), pressure differential, and combination valves.	5B09	P2
C241	Inspect, test, and adjust height (load) sensing proportioning valve.	5B10	P3
C242	Inspect, test, and/or replace components of brake warning light system.	5B11	P3
C243	Bleed (manual, pressure, vacuum or surge) brake system.	5B12	P1
C244	Flush hydraulic brake system.	5B13	P3
C245*	Diagnose poor stopping, noise, vibration, pulling, grabbing, dragging or pedal pulsation concerns in drum brakes; determine necessary action.	5C01	P1
C246	Remove, clean (using proper safety procedures), inspect, and measure brake drums; determine necessary action.	5C02	P1
C247	Refinish brake drum.	5C03	P1
C248	Remove, clean, and inspect brake shoes, springs, pins, clips, levers, adjusters/self-adjusters, other related brake hardware, and backing support plates; lubricate and reassemble.	5C04	P1
C249	Remove, inspect, and install drum brake wheel cylinders.	5C05	P2
C250	Pre-adjust brake shoes and parking brake before installing brake drums or drum/hub assemblies and wheel bearings.	5C06	P1
C251	Install wheel, torque lug nuts, and make final checks and adjustments.	5C07	P1
C252*	Diagnose poor stopping, noise, vibration, pulling, grabbing, dragging or pedal pulsation concerns in disc brakes; determine necessary action.	5D01	P1
C253	Remove brake caliper assembly from mountings; clean and inspect for leaks and damage to caliper housing; determine necessary action.	5D02	P1
C254	Clean and inspect brake caliper mounting and slides for wear and damage; determine necessary action.	5D03	P1
C255	Remove, clean, and inspect disc brake pads and retaining hardware; determine necessary action.	5D04	P1

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C256	Disassemble and clean disc brake caliper assembly; inspect parts for wear, rust, scoring, and damage; replace seal, boot, and damaged or worn parts.	5D05	P2
C257	Reassemble, lubricate, and reinstall brake caliper, pads, and related hardware; seat pads, and inspect for leaks.	5D06	P1
C258	Clean, inspect, and measure disc brake rotor with a dial indicator and a micrometer; follow manufacturer's recommendations in determining need to machine or replace.	5D07	P1
C259	Remove and reinstall disc brake rotor.	5D08	P1
C260	Refinish disc brake rotor (according to manufacturer's recommendations).	5D09	P1
C261	Adjust disc brake calipers equipped with an integrated parking brake system.	5D10	P3
C262	Install wheel, torque lug nuts, and make final checks and adjustments.	5D11	P1
C263	Test brake pedal free travel with and without engine running; check power assist operation.	5E01	P2
C264	Check brake vacuum supply (manifold or auxiliary pump) to vacuum-type power booster.	5E02	P2
C265	Inspect the vacuum-type brake power booster unit for vacuum leaks; inspect the check valve for proper operation; determine necessary action.	5E03	P2
C266	Inspect and test brake hydro-boost system and accumulator for leaks and proper operation; determine necessary action.	5E04	P3
C267	Diagnose wheel bearing noises, wheel shimmy, and vibration concerns; determine necessary action.	5F01	P1
C268	Remove, clean, inspect, repack, and install wheel bearings and replace seals; install hub and adjust wheel bearings.	5F02	P1
C269	Check parking brake cables and components for wear, rusting, binding, and corrosion; clean, lubricate, or replace as needed.	5F03	P2
C270	Check parking brake operation; determine necessary action.	5F04	P1
C271	Check operation of parking brake indicator light system.	5F05	P3
C272	Check operation of brake stop light system; determine necessary action.	5F06	P1
C273	Replace wheel bearing and race.	5F07	P1
C274	Inspect and replace wheel studs.	5F08	P1
C275	Remove and reinstall sealed wheel bearing assembly.	5F09	P2
C276	Identify and inspect antilock brake system (ABS) components; determine necessary action.	5G01	P1
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.	5G02	P2
C278	Diagnose antilock brake system (ABS) electronic control(s) and components using self-diagnosis and/or recommended test equipment; determine necessary action.	5G03	P1
C279	Depressurized high-pressure components of the antilock brake system (ABS).	5G04	P3
C280	Bleed the antilock brake system's (ABS) front and rear hydraulic circuits.	5G05	P2
C281	Remove and install antilock brake system (ABS) electrical/electronic and hydraulic components.	5G06	P3
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).	5G07	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C283	Diagnose antilock brake system (ABS) braking concerns caused by vehicle modifications (tire size, curb height, final drive ratio, etc.).	5G08	P3
C284*	Identify traction control/vehicle stability control system components.	5G09	P3
C285	Identify and interpret electrical/electronic system concern; determine necessary action.	6A01	P1
C286	Research applicable vehicle and service information, such as electrical/electronic system operation, vehicle service history, service precautions, and technical service bulletins.	6A02	P1
C287	Locate and interpret vehicle and major electrical/electronic component identification numbers (VIN, vehicle certification labels, and calibration decals).	6A03	P1
C288*	Diagnose electrical/electronic integrity of (for) series, parallel and series-parallel circuits using principles of electricity (Ohm's Law).	6A04	P1
C289	Use wiring diagrams during diagnosis of electrical circuit problems.	6A05	P1
C290	Demonstrate the proper use of a digital multimeter (DMM) during diagnosis of electrical circuit problems.	6A06	P1
C291	Check electrical circuits with a test light; determine necessary action.	6A07	P2
C292	Measure source voltage and perform voltage drop tests in electrical/electronic circuits using a voltmeter; determine necessary action.	6A08	P1
C293	Measure current flow in electrical/electronic circuits and components using an ammeter; determine necessary action.	6A09	P1
C294	Check continuity and measure resistance in electrical/electronic circuits and components using an ohmmeter; determine necessary action.	6A10	P1
C295	Check electrical circuits using fused jumper wires; determine necessary action.	6A11	P2
C296	Locate shorts, grounds, opens, and resistance problems in electrical/electronic circuits; determine necessary action.	6A12	P1
C297	Measure and diagnose the cause(s) of excessive key-off battery drain (parasitic draw); determine necessary action.	6A13	P1
C298	Inspect and test fusible links, circuit breakers, and fuses; determine necessary action.	6A14	P1
C299*	Inspect and test switches, connectors, relays, solenoid solid state devices, and wires of electrical/electronic circuits; perform necessary action.	6A15	P1
C300	Repair wiring harnesses and connectors.	6A16	P1
C301	Perform solder repair of electrical wiring.	6A17	P1
C302	Perform battery state-of-charge test; determine necessary action.	6B01	P1
C303	Perform battery capacity test; confirm proper battery capacity for vehicle application; determine necessary action.	6B02	P1
C304	Maintain or restore electronic memory functions.	6B03	P1
C305	Inspect, clean, fill, and replace battery.	6B04	P1
C306	Perform slow/fast battery charge.	6B05	P2
C307	Inspect and clean battery cables, connectors, clamps, and hold-downs; repair or replace as needed.	6B06	P1
C308	Start a vehicle using jumper cables and a battery or auxiliary power supply.	6B07	P1
C309	Perform starter current draw tests; determine necessary action.	6C01	P1
C310	Perform starter circuit voltage drop tests; determine necessary action.	6C02	P1
C311	Inspect and test starter relays and solenoids; determine necessary action.	6C03	P2
C312	Remove and install starter in a vehicle.	6C04	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C313	Inspect and test switches, connectors, and wires of starter control circuits; perform necessary action.	6C05	P2
C314	Differentiate between electrical and engine mechanical problems that cause a slow-crank or no-crank condition.	6C06	P2
C315	Perform charging system output test; determine necessary action.	6D01	P1
C316	Diagnose charging system for the cause of undercharge, no-charge, and overcharge conditions.	6D02	P1
C317	Inspect, adjust, or replace generator (alternator) drive belts, pulleys, and tensioners; check pulley and belt alignment.	6D03	P1
C318	Remove, inspect, and install generator (alternator).	6D04	P1
C319	Perform charging circuit voltage drop tests; determine necessary action.	6D05	P1
C320	Diagnose the cause of brighter than normal, intermittent, dim, or no light operation; determine necessary action.	6E01	P1
C321	Inspect, replace, and aim headlights and bulbs.	6E02	P2
C322	Inspect and diagnose incorrect turn signal or hazard light operation; perform necessary action	6E03	P2
C323	Inspect and test gauges and gauge sending units for cause of intermittent, high, low, or no gauge readings; determine necessary action.	6F01	P1
C324	Inspect and test connectors, wires, and printed circuit boards of gauge circuits; determine necessary action.	6F02	P3
C325	Diagnose the cause of incorrect operation of warning devices and other driver information systems; determine necessary action.	6F03	P1
C326*	Inspect and test sensors, connectors, and wires of electronic (digital) instrument circuits; determine necessary action.	6F04	P3
C327	Diagnose incorrect horn operation; perform necessary action.	6G01	P2
C328	Diagnose incorrect wiper operation; diagnose wiper speed control and park problems; perform necessary action.	6G02	P2
C329	Diagnose incorrect washer operation; perform necessary action.	6G03	P2
C330	Diagnose incorrect operation of motor-driven accessory circuits; determine necessary action.	6H01	P2
C331	Diagnose incorrect heated glass operation; determine necessary action.	6H02	P2
C332	Diagnose incorrect electric lock operation; determine necessary action.	6H03	P2
C333	Diagnose incorrect operation of cruise control systems; determine necessary action.	6H04	P3
C334	Diagnose supplemental restraint system (SRS) concerns; determine necessary action. (Note: Follow manufacturer's safety procedures to prevent accidental deployment.)	6H05	P1
C335	Disarm and enable the airbag system for vehicle service.	6H06	P1
C336	Diagnose radio static and weak, intermittent, or no radio reception; determine necessary action.	6H07	P3
C337	Remove and reinstall door panel.	6H08	P1
C338	Diagnose body electronic system circuits using a scan tool; determine necessary action.	6H09	P2
C339*	Check for module communication (CAN/BUS) errors using a scan tool.	6H10	P3
C340	Diagnose the cause of false, intermittent, or no operation of anti-theft system.	6H11	P2
C341	Identify and interpret heating and air conditioning concern; determine necessary action.	7A01	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C342	Research applicable vehicle and service information, such as heating and air conditioning system operation, vehicle service history, service precautions, and technical service bulletins.	7A02	P1
C343	Locate and interpret vehicle and major heating and air conditioning system component identification numbers (VIN, vehicle certification labels, calibration decals).	7A03	P1
C344	Performance test A/C system; diagnose A/C system malfunctions using principles of refrigeration.	7A04	P1
C345	Diagnose abnormal operating noises in the A/C system; determine necessary action.	7A05	P2
C346*	Identify refrigerant type; conduct a performance test of the A/C system; determine necessary action.	7A06	P1
C347	Leak test A/C system; determine necessary action.	7A07	P1
C348	Inspect the condition of discharged oil; determine necessary action.	7A08	P2
C349	Determine recommended oil for heating and air conditioning system application.	7A09	P1
C350	Diagnose A/C system conditions that cause the protection devices (pressure, thermal, and PCM) to interrupt system operation; determine necessary action.	7B101	P2
C351*	Inspect and replace A/C compressor drive belts; determine necessary action.	7B102	P1
C352	Inspect, test, and/or replace A/C compressor clutch components and/or assembly.	7B103	P2
C353*	Remove, inspect and reinstall A/C compressor and mountings; determine (measure) oil quantity (determine necessary action).	7B104	P1
C354	Determine need for an additional A/C system filter; perform necessary action.	7B201	P3
C355	Remove and inspect A/C system mufflers, hoses, lines, fittings, O-rings, seals, and service valves; perform necessary action.	7B202	P2
C356	Inspect A/C condenser for airflow restrictions; perform necessary action.	7B203	P1
C357*	Remove, inspect and reinstall heating and air conditioning system receiver/drier or accumulator/drier, determine (measure) oil quantity (determine necessary action).	7B204	P1
C358	Remove and install heating and air conditioning system expansion valve or orifice (expansion) tube.	7B205	P1
C359	Inspect heating and air conditioning system evaporator housing water drain; perform necessary action.	7B206	P3
C360*	Remove, inspect and reinstall heating and air conditioning system evaporator; determine required (measure) oil quantity (determine necessary action).	7B207	P3
C361*	Remove, inspect and reinstall heating and air conditioning system condenser; determine required (measure) oil quantity (determine necessary action).	7B208	P3
C362	Diagnose temperature control problems in the heater/ventilation system; determine necessary action.	7C01	P2
C363	Perform cooling system, cap, and recovery system tests (pressure, combustion leakage, and temperature); determine necessary action.	7C02	P1
C364	Inspect engine cooling and heater system hoses and belts; perform necessary action.	7C03	P1
C365*	Inspect, test, and replace thermostat and gasket (housing).	7C04	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C366	Determine coolant condition and coolant type for vehicle application; drain and recover coolant.	7C05	P1
C367	Flush system; refill system with recommended coolant; bleed system.	7C06	P1
C368	Inspect and test cooling fan, fan clutch, fan shroud, and air dams; perform necessary action.	7C07	P1
C369	Inspect and test electric cooling fan, fan control system and circuits; determine necessary action.	7C08	P1
C370	Inspect and test heater control valve(s); perform necessary action.	7C09	P2
C371*	Remove, inspect and reinstall heater core.	7C10	P3
C372	Diagnose malfunctions in the electrical controls of heating, ventilation, and A/C (HVAC) systems; determine necessary action.	7D01	P2
C373	Inspect and test A/C-heater blower, motors, resistors, switches, relays, wiring, and protection devices; perform necessary action.	7D02	P1
C374	Test and diagnose A/C compressor clutch control systems; determine necessary action.	7D03	P1
C375*	Diagnose malfunctions in the vacuum, mechanical components and electrical controls of the heating, ventilation, and A/C (HVAC) system; determine necessary action.	7D04	P2
C376	Inspect and test A/C-heater control panel assembly; determine necessary action.	7D05	P3
C377*	Inspect and test A/C-heater control cables, motors and linkages; perform necessary action.	7D06	P3
C378	Inspect A/C-heater ducts, doors, hoses, cabin filters and outlets; perform necessary action.	7D07	P3
C379	Check operation of automatic and semi-automatic heating, ventilation, and air-conditioning (HVAC) control systems; determine necessary action.	7D08	P3
C380	Perform correct use and maintenance of refrigerant handling equipment.	7E01	P1
C381	Identify (by label application or use of a refrigerant identifier) and recover A/C system refrigerant.	7E02	P1
C382	Recycle refrigerant.	7E03	P1
C383	Label and store refrigerant.	7E04	P1
C384	Test recycled refrigerant for non-condensable gases.	7E05	P1
C385	Evacuate and charge A/C system.	7E06	P1
C386	Identify and interpret engine performance concern; determine necessary action.	8A01	P1
C387	Research applicable vehicle and service information, such as engine management system operation, vehicle service history, service precautions, and technical service bulletins.	8A02	P1
C388	Locate and interpret vehicle and major engine management system component identification numbers (VIN, vehicle certification labels, and calibration decals).	8A03	P1
C389	Inspect engine assembly for fuel, oil, coolant, and other leaks; determine necessary action.	8A04	P2
C390	Diagnose abnormal engine noise or vibration concerns; determine necessary action.	8A05	P2
C391	Diagnose abnormal exhaust color, odor, and sound; determine necessary action.	8A06	P2
C392	Perform engine absolute (vacuum/boost) manifold pressure tests; determine necessary action.	8A07	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C393	Perform cylinder power balance test; determine necessary action.	8A08	P1
C394*	Perform cylinder cranking compression tests; determine necessary action.	8A09	P1
C395	Perform cylinder leakage test; determine necessary action.	8A10	P1
C396	Diagnose engine mechanical, electrical, electronic, fuel, and ignition concerns with an oscilloscope and/or engine diagnostic equipment; determine necessary action.	8A11	P1
C397	Prepare 4 or 5 gas analyzer; inspect and prepare vehicle for test, and obtain exhaust readings; interpret readings, and determine necessary action.	8A12	P1
C398	Verify engine operating temperature; determine necessary action.	8A13	P1
C399	Perform cooling system pressure tests; check coolant condition; inspect and test radiator, pressure cap, coolant recovery tank, and hoses; perform necessary action.	8A14	P1
C400	Verify correct camshaft timing.	8A15	P2
C401	Retrieve and record stored OBD I diagnostic trouble codes; clear codes.	8B01	P3
C402*	Retrieve and record stored OBD II diagnostic trouble codes; clear codes when applicable.	8B02	P1
C403	Diagnose the causes of emissions or drivability concerns resulting from malfunctions in the computerized engine control system with stored diagnostic trouble codes.	8B03	P1
C404	Diagnose emissions or drivability concerns resulting from malfunctions in the computerized engine control system with no stored diagnostic trouble codes; determine necessary action.	8B04	P1
C405	Check for vehicle system module communication (including CAN/BUS systems) errors using a scan tool.	8B05	P2
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.	8B06	P1
C407	Obtain and interpret scan tool data.	8B07	P1
C520	Obtain and interpret engine performance data with a scan tool.	8B07	P1
C408	Access and use service information to perform step-by-step diagnosis on engine systems.	8B08	P1
C409	Diagnose drivability and emissions problems resulting from malfunctions of interrelated systems (cruise control, security alarms, suspension controls, traction controls, A/C, automatic transmissions, non-OEM-installed accessories, or similar systems); determine necessary action.	8B09	P3
C410	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 electronic ignition (distributorless) systems; determine necessary action.	8C01	P1
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.	8C02	P1
C412	Inspect and test ignition primary circuit wiring and solid state components; perform necessary action.	8C03	P2
C413	Inspect, test and service ignition system distributor.	8C04	P3
C414	Inspect and test ignition system secondary circuit wiring and components; perform necessary action.	8C05	P2
C415	Inspect and test ignition coil(s); perform necessary action.	8C06	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C416	Check and adjust ignition system timing and timing advance/retard (where applicable).	8C07	P3
C417	Inspect and test ignition system pick-up sensor or triggering devices; perform necessary action.	8C08	P1
C418	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 carburetor-type fuel systems; determine necessary action.	8D01	P3
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.	8D02	P1
C420	Check fuel for contaminants and quality; determine necessary action.	8D03	P3
C421*	Inspect and test (mechanical and electrical) fuel pumps and pump control systems for pressure, regulation and volume; perform necessary action.	8D04	P1
C422	Replace fuel filters.	8D05	P1
C423	Inspect and test cold enrichment system and components; perform necessary action.	8D06	P3
C424	Inspect throttle body, air induction system, intake manifold and gaskets for vacuum leaks and/or unmetered air.	8D07	P2
C425	Inspect and test gasoline/petrol fuel injectors.	8D08	P1
C426	Check idle speed and gasoline/petrol fuel mixture.	8D09	P2
C427	Adjust idle speed and gasoline/petrol fuel mixture.	8D10	P3
C428	Inspect the integrity of the exhaust manifold, exhaust pipes, muffler(s), catalytic converter(s), resonator(s), tail pipe(s), and heat shield(s); perform necessary action.	8D11	P2
C429	Perform exhaust system back-pressure test; determine necessary action.	8D12	P1
C430	Test the operation of turbocharger/supercharger systems; determine necessary action.	8D13	P3
C431	Diagnose engine oil leaks, emissions, and drivability problems resulting from malfunctions in the positive crankcase ventilation (PCV) system; determine necessary action.	8E101	P2
C432	Inspect, test and service positive crankcase ventilation (PCV) filter/breather cap, valve, tubes, orifices, and hoses; perform necessary action.	8E102	P2
C433	Diagnose emissions and drivability problems caused by malfunctions in the exhaust gas recirculation (EGR) system; determine necessary action.	8E201	P1
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.	8E202	P1
C435	Inspect and test electrical/electronic sensors, controls, and wiring of exhaust gas recirculation (EGR) systems; perform necessary action.	8E203	P2
C436	Diagnose emissions and drivability problems resulting from malfunctions in the secondary air injection and catalytic converter systems; determine necessary action.	8E301	P2
C437	Inspect and test mechanical components of secondary air injection systems; perform necessary action.	8E302	P3
C438	Inspect and test electrical/electronically-operated components and circuits of air injection systems; perform necessary action.	8E303	P3
C439	Inspect and test catalytic converter performance.	8E304	P1

CDX Tasksheet Number	TASKSHEET	NATEF 2002 Ref	NATEF Priority
C440	Diagnose emissions and drivability problems resulting from malfunctions in the intake air temperature control system; determine necessary action.	8E401	P3
C441	Inspect and test components of intake air temperature control system; perform necessary action.	8E402	P3
C442	Diagnose emissions and drivability problems resulting from malfunctions in the early fuel evaporation control system; determine necessary action.	8E501	P3
C443	Inspect and test components of early fuel evaporation control system; perform necessary action.	8E502	P3
C444	Diagnose emissions and drivability problems resulting from malfunctions in the evaporative emissions control system; determine necessary action.	8E601	P1
C445	Inspect and test components and hoses of evaporative emissions control system; perform necessary action.	8E602	P2
C446	Interpret evaporative emission related diagnostic trouble codes (DTCs); determine necessary action.	8E603	P1
C447	Adjust valves on engines with mechanical or hydraulic lifters.	8F01	P1
C448	Remove and replace timing belt; verify correct camshaft timing.	8F02	P1
C449*	Remove and replace thermostat and gasket.	8F03	P1
C450	Inspect and test mechanical/electrical fans, fan clutch, fan shroud/ducting, air dams, and fan control devices; perform necessary action.	8F04	P1
C012*	Remove and reinstall engine in a late model rear-wheel drive vehicle (OBD II or newer); reconnect all attaching components and restore the vehicle to running condition.	IA12	P2
C022	Inspect engine hydraulic or mechanical lifters; determine necessary action.	IB10	P2
C023	Adjust engine valves (mechanical or hydraulic lifters).	IB11	P1
C024	Inspect camshaft drives (including gear wear and backlash, sprocket and chain wear); determine necessary action.	IB12	P2
C025	Inspect and replace timing belts (chains), overhead camdrive sprockets, and tensioners; check belt/chain tension; adjust as necessary.	IB13	P1
C026	Inspect camshaft for runout, journal wear and lobe wear.	IB14	P2
C027	Inspect camshaft bearing surface for wear, damage, out-of-round, and alignment; determine necessary action.	IB15	P3
C028	Establish camshaft(s) timing and cam sensor indexing according to manufacturer's specifications and procedures.	IB16	P1
C029	Disassemble engine block; clean and prepare components for inspection and reassembly.	IC01	P2