

A SYSTEMATIC SEQUENCE FOR PM INSPECTIONS

TYPE OF INSPECTION			UNDER THE HOOD
A	B	C	
GASOLINE AND DIESEL			
___	___	___	1 Fuel, oil, exhaust leaks - inspect
___	___	___	2 Oil and fuel lines – inspect for kinks and wear
___	___	___	3 Automatic transmission – inspect fluid level
___	___	___	4 Radiator core, water pump, cylinder head, block, heater, hoses and connections – inspect for leaks
___	___	___	5 Power steering pump reservoir – inspect fluid level and for leaks
___	___	___	6 Belts – inspect condition and adjust tension if needed
___	___	___	7 Electrical connections and mounting bolts for starter, generator, alternator - inspect and tighten if needed
___	___	___	8 Generator commutator and brushes - inspect
___	___	___	9 Alternator – generator and regulator – test and adjust w/voltammeter
___	___	___	10 Steering gear housing – inspect lubricant level
___	___	___	11 Steering gear housing bolts - tighten
___	___	___	12 Clutch and/or brake master cylinder – inspect fluid level
___	___	___	13 Battery – remove cables, clean terminals, reinstall cables, coat with petroleum jelly – test voltage of each cell ___ (POS) ___ 1 ___ 2 ___ 3 ___ 4 ___ 5 ___ 6 (NEG)
___	___	___	14 Battery – test cells specific gravity w/hydrometer
___	___	___	15 Battery – examine level of each cell and add distilled water if needed
___	___	___	16 Radiator – inspect coolant level and add water if required
___	___	___	17 Radiator coolant – inspect for signs of oil or combustion leakage
___	___	___	18 Cooling system – pressure test
___	___	___	19 Engine oil – inspect level; change or add as needed
___	___	___	20 Governor air cleaner - clean
___	___	___	21 Air compressor – adjust, cut in ___ #, cut out ___ #; tighten mounting
GAS ONLY			
___	___	___	22 Crankcase breather and oil filter cap air cleaner – clean and/or replace
___	___	___	23 Fuel filter – clean or replace (always replace paper element)
___	___	___	24 Fuel pump – test and record pressure. Pressure # ___ Vacuum # ___
___	___	___	25 Carburetor air cleaner – clean or replace
___	___	___	26 Spark plugs – remove, inspect, clean or replace and gap; torque w/ new gaskets

TYPE		OF	INSPECTION	UNDER THE HOOD
A	B	C		
___	___	___	27	Distributor – inspect contacts for corrosion and cap for cracks. Inspect wiring condition and points; check for burning/cracking
___	___	___	28	Cylinder compressions – test and record: Dry 1___ 2___ 3___ 4___ 5___ 6___ 7___ 8___ Wet 1___ 2___ 3___ 4___ 5___ 6___ 7___ 8___
___	___	___	29	Manifolds – inspect for leaks, tighten nuts with engine at normal operating temperature
___	___	___	30	Cylinder head bolts - torque
___	___	___	31	Positive crankcase ventilator valve – remove, clean or replace
___	___	___	32	Valves – run engine at proper idle, inspect overhead system and adjust valve lash if needed
___	___	___	33	Valve cover gasket - replace
___	___	___	34	Carburetor – adjust idle mixture and RPM
___	___	___	35	Ignition timing – set w/light
___	___	___	36	Use tachometer and record top engine RPM
DIESEL ONLY				
___	___	___	37	Radiator shutters – inspect to see that they are open before starting engine and close as air pressure builds up after starting engine
___	___	___	38	Shutter –stat -lubricate
___	___	___	39	With engine operating at proper temperature – tighten exhaust manifold and exhaust pipe flange nuts. Tighten air inlet system hose clamps. Inspect for leaks
___	___	___	40	Air box drains and crankcase breather tubes, w/engine running, see that they are open
___	___	___	41	Primary and/or secondary fuel filters – open petcock and drain water
___	___	___	42	Fuel return line – disconnect at tank or other convenient place. Run engine at ___RMP. Fuel return should be appr. ___ qts./min. Observe fuel for appearance of air bubble or gasses.
___	___	___	43	Primary fuel filter – clean. Secondary fuel filter – replace if needed
___	___	___	44	Engine and oil cooler lines – inspect for leaks
___	___	___	45	High pressure lines and clamps – inspect, tighten or replace
___	___	___	46	Fuel jumper lines – tighten if required
___	___	___	47	Valves – inspect for proper clearance
___	___	___	48	Injector nozzles – inspect and clean as required; set pop pressure
___	___	___	49	Injectors – check and adjust for proper height setting. Inspect overhead system and adjust rack
___	___	___	50	Air cleaners – clean and refill reservoir w/engine oil
___	___	___	51	Emergency stop control – test w/engine off
___	___	___	52	Throttle, accelerator, shut-off and choke controls – test operation
___	___	___	53	No-load high speed setting – test and record ___ RPM; test idle speed setting and record ___ RPM

TYPE OF INSPECTION			UNDER THE HOOD
A	B	C	
WALK AROUND INSPECTION			
___	___	___	1 Front sheet metal, paint and bumper – inspect for appearance/accident
___	___	___	2 Front lights and directional signals – inspect
___	___	___	3 Left front tire – inspect for cuts or unusual wear; torque wheel nuts
___	___	___	4 Left side of cab – inspect for appearance and condition
___	___	___	5 Left side door hinges and latch – lubricate, adjust if necessary. Window regulators and vents – test operation
___	___	___	6 Fuel tank mountings – tighten if required
___	___	___	7 Battery – examine box cover clamps. Inspect level of each cell
___	___	___	8 Left side body and frame – inspect for appearance and condition
___	___	___	9 Left rear tires – examine for cuts or signs of unusual wear; torque wheel and axle flange nuts
___	___	___	10 Fifth wheel mountings – tighten if required
___	___	___	11 Rear of vehicle – inspect for appearance and condition
___	___	___	12 Cab sheet metal – inspect for appearance and condition
___	___	___	13 Right rear tires – examine for cuts or signs of unusual wear; torque wheel and axle flange nuts
___	___	___	14 Right side body and frame – inspect for appearance and condition
___	___	___	15 Right side door hinges and latch – lubricate, adjust if necessary. Window regulators and vents – test operation
___	___	___	16 Right front tire – inspect for cuts or unusual wear; torque wheel nuts
___	___	___	17 Front ball joints – inspect on both wheels and excessive looseness
___	___	___	18 Front kingpins and bearings – inspect on both wheels for looseness
___	___	___	19 Front brake linings, anchors, locks, wheel cylinders and drums – inspect, blow out drums and shoes. Lubricate shoe anchors and cams – wedge type brakes, clean and lubricate actuating components
___	___	___	20 Front wheel bearings – clean repack and adjust for both front wheels, Replace grease retainer.
___	___	___	21 Rear brake linings, anchors, locks, wheel cylinders and drums – inspect, blow out drums and shoes. Lubricate shoe anchors and cams – wedge type brakes, clean and lubricate actuating components
___	___	___	22 Wedge-type brake system – remove brake drums, clean and lubricate adjusting components
___	___	___	23 Rear wheel bearings – clean, repack and adjust. Replace g
___	___	___	24 Front wheel caster and camber – inspect to see that it is within specifications
___	___	___	25 Toe-in – adjust as required
UNDER VEHICLE			
___	___	___	1 Chassis – lubricate according to lub chart

TYPE OF INSPECTION			UNDER THE HOOD	
A	B	C		
___	___	___	2	Front tires – examine for cuts or unusual wear
___	___	___	3	Front springs – inspect for shackle looseness and wear. Inspect leaves for breakage and misalignment
___	___	___	4	Pitman and steering arms, drag link and tie rod - inspect
___	___	___	5	Power steering cylinder – inspect for leaks
___	___	___	6	Propeller shaft – inspect, including all brackets, flanges, hangers and center bearings
___	___	___	7	Rear springs – inspect for loose or worn shackles, broken/misaligned parts
___	___	___	8	Engine oil – replace oil, filter element and gasket at change period
___	___	___	9	Engine pan gasket, front and rear crankshaft seals - inspect
___	___	___	10	Engine mounts – inspect for deterioration or looseness
___	___	___	11	Clutch controls – examine for any abnormal condition. Inspect clearance, adjust as needed
___	___	___	12	Front U-bolts – tighten to specifications
___	___	___	13	Transmission – inspect for leaks. Inspect the lubricant level.
___	___	___	14	Automatic transmission cooler lines – inspect for leakage
___	___	___	15	Automatic transmission linkage – adjust if needed
___	___	___	16	Transmission support and strut rod – adjust if required
___	___	___	17	Driveline-type parking brake – inspect lining condition and adjust
___	___	___	18	Auxiliary or transfer case – inspect for leaks; check breather; tighten rear bearing retainer bolts
___	___	___	19	Transmission: auxiliary or transfer case linkage pivot points - lubricate
___	___	___	20	Center bearing, brackets, U-joints and flanges – tighten as needed
___	___	___	21	Rear axle – inspect lubricant level, add if required. Clean breather
___	___	___	22	Rear axle differential housing – inspect for lubricant leakage and pinion bearings for looseness; check that axle breather is free of dirt
___	___	___	23	Rear tires – examine for cuts and unusual wear
___	___	___	24	Rear axle carrier housing and pinion cage bolts - tighten
___	___	___	25	Rear U-bolts – tighten to specs
___	___	___	26	Air brake valve clevis pin - lubricate
___	___	___	27	Brake hose, lines, valves, chambers, etc. – inspect for leaks; examine cross shaft, cables, linkage for abnormal wear
___	___	___	28	Air tanks - drain
___	___	___	29	Frame and cross-members - examine
___	___	___	30	Exhaust pipe, muffler, tailpipe and hanger brackets - inspect
___	___	___	31	Cab hold-down-bolt insulators – inspect, tighten bolts as needed
___	___	___	32	Body mounts – tighten if required
CAB/DRIVER ITEMS				
___	___	___	1	Cab interior – inspect for appearance and condition
___	___	___	2	Seat adjustment – operate. Inspect seat cushions

TYPE OF INSPECTION			UNDER THE HOOD	
A	B	C		
___	___	___	3	Window regulators and wing vents - operate
___	___	___	4	Mirrors – inspect for cracks, discoloration and tightness
___	___	___	5	All lights, horn and dash instruments - test
___	___	___	6	Wipers – inspect for correct operation and wear. Adjust, repair or replace as necessary
___	___	___	7	Washers - operate
___	___	___	8	Radio; heater and directional signals - operate
___	___	___	9	Steering wheel – inspect steering gear play
___	___	___	10	Service brake pedal – test for action and reserve
___	___	___	11	Parking brake – test for action and reserve
___	___	___	12	Transmission lever – shift through all gear positions
___	___	___	13	Clutch pedal – test for action and adequate free play
___	___	___	14	Fire extinguisher – inspect for leakage and secure mounting
___	___	___	15	Fire extinguisher – refill or recharge if needed
___	___	___	16	Tools – check that those regularly assigned are in the vehicle
___	___	___	17	Engine emergency stop – test with engine off
___	___	___	18	Throttle and accelerator controls – test for binding
___	___	___	19	Choke – test for binding
___	___	___	20	Seat belts – securely anchored and in good condition