

MAINTENANCE SCHEDULES

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402 MAINTENANCE SCHEDULES

EMISSION CONTROL SYSTEM MAINTENANCE

The “Scheduled” maintenance services, listed in **bold type** in this section (Section 8) must be done at the times or mileages specified to assure the continued proper functioning of the emission control system. These, and all other maintenance services included in this manual, should be done to provide best vehicle performance and reliability. More frequent maintenance may be needed for vehicles in severe operating conditions such as dusty areas and very short trip driving.

Inspection and service also should be done any time a malfunction is suspected.

NOTE: Maintenance, replacement, or repair of the emission control devices and systems on your vehicle may be performed by any automotive repair establishment or individual using any automotive part which has been certified pursuant to U.S. EPA or, in the State of California, California Air Resources Board regulations.

MAINTENANCE SCHEDULES — 24-VALVE CUMMINS TURBO DIESEL

There are two maintenance schedules that show the **required** service for your vehicle.

First is Schedule “**B**”. It is for vehicles that are operated under the conditions that are listed below and at the beginning of the schedule.

- Frequent short trips where the engine does not achieve full operating temperature (operating temperature defined as 190° F (66° C) coolant temperature).
- Extensive engine idling (over 10 minutes per hour of operation) at ambient temperatures less than 32° F (0° C).
- Driving in dusty conditions.
- Frequent trailer towing.
- Taxi, police, or delivery service (commercial service).

- Off-road or desert operation.
- Extensive operation at high engine speeds (greater than 2900 rpm) and loads (greater than 70% throttle).

NOTE: Most vehicles are operated under the conditions listed for Schedule "B".

NOTE: If **ANY** of these apply to you then change your coolant every 102,000 miles (163 000 km) or 60 months, whichever comes first and follow schedule "B" of the "Maintenance Schedules" section of this manual.

Second is Schedule "A". It is for vehicles that are not operated under any of the conditions listed under Schedule "B".

Use the schedule that best describes your driving conditions. Where time and mileage are listed, follow the interval that occurs first.

CAUTION!

Failure to perform the required maintenance items may result in damage to the vehicle.

At Each Stop for Fuel

- Check the engine oil level about 15 minutes after a fully warmed engine is shut off. Checking the oil level while the vehicle is on level ground will improve the accuracy of the oil level reading. Add oil only when the level is at or below the ADD or MIN mark.
- Check the windshield washer solvent and add if required.
- Drain water from the fuel filter.

404 MAINTENANCE SCHEDULES

Once a Month

- Check tire pressure and look for unusual wear or damage.
- Inspect the batteries and clean and tighten the terminals as required.
- Check the fluid levels of coolant reservoir, brake master cylinder, and transmission and transfer case (if equipped), add as needed.
- **Check Filter Minder™. Replace air cleaner filter element if necessary.**
- Check all lights and all other electrical items for correct operation.

At Each Oil Change

- Change the engine oil filter.
- Inspect the exhaust system.
- Inspect the brake hoses.
- Inspect the CV joints (if equipped) and front suspension components.
- Check the automatic transmission fluid level.
- Check the manual transmission fluid level.
- Check the coolant level, hoses, and clamps.

Schedule "B"

Follow schedule "B" if you usually operate your vehicle under one or more of the following conditions.

- Frequent short trips where the engine does not achieve full operating temperature (operating temperature defined as 190° F (66° C) coolant temperature).
- Extensive engine idling (over 10 minutes per hour of operation) at ambient temperatures less than 32° F (0° C).
- Driving in dusty conditions.

- Frequent trailer towing.
- Taxi, police, or delivery service (commercial service).
- Off-road or desert operation.
- Extensive operation at high engine speeds (greater than 2900 rpm) and loads (greater than 70% throttle).

NOTE: If **ANY** of these apply to you then change your coolant every 102,000 miles (163 000 km) or 60 months, whichever comes first and follow schedule "B" of the "Maintenance Schedules" section of this manual.

406 SCHEDULE "B"

Miles (Kilometers)	3,750 (6 000)	7,500 (12 000)	11,250 (18 000)	15,000 (24 000)	18,750 (30 000)
Change engine oil and engine oil filter.		X		X	
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.		X		X	
Lubricate outer tie rod ends 2500/3500 (4X4) models only.		X		X	
Inspect water pump weep hole for blockage.				X	
Replace fuel filter element. Clean the water in fuel sensor.				X	
Change rear axle fluid.				X	
Change front axle fluid (4X4).				X	
Inspect brake linings.				X	
Inspect and adjust parking brake if necessary.				X	

Miles (Kilometers)	22,500 (36 000)	26,250 (42 000)	30,000 (48 000)	33,750 (54 000)	37,500 (60 000)
Change engine oil and engine oil filter.	X		X		X
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.	X		X		X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X		X		X
Inspect drive belt, replace as required.	X				
Inspect fan hub.			X		
Inspect damper.			X		
Inspect water pump weep hole for blockage.			X		
Replace fuel filter element. Clean the water in fuel sensor.			X		
Change rear axle fluid.			X		
Change front axle fluid (4X4).			X		
Check transfer case fluid level (4X4).			X		
Drain and refill automatic transmission fluid. Replace filter and adjust bands (48RE only).			X		

408 SCHEDULE "B"

Miles (Kilometers)	41,250 (66 000)	45,000 (72 000)	48,750 (78 000)	52,500 (84 000)	56,250 (90 000)
Change engine oil and engine oil filter.		X		X	
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.		X		X	
Lubricate outer tie rod ends 2500/3500 (4X4) models only.		X		X	
Inspect drive belt, replace as required.		X			
Inspect water pump weep hole for blockage.		X			
Replace fuel filter element. Clean the water in fuel sensor.		X			
Inspect brake linings.		X			
Inspect and adjust parking brake if necessary.		X			
Change rear axle fluid.		X			
Change front axle fluid (4X4).		X			

Miles (Kilometers)	60,000 (96 000)	63,750 (102 000)	67,500 (108 000)	71,250 (114 000)	75,000 (120 000)
Change engine oil and engine oil filter.	X		X		X
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Flush and replace engine coolant at 60 months, if not replaced at 102,000 miles (163 000 km).	X				
Rotate tires.	X		X		X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X		X		X
Inspect drive belt, replace as required.			X		
Inspect fan hub.	X				
Inspect damper.	X				
Inspect water pump weep hole for blockage.	X				X
Replace fuel filter element. Clean the water in fuel sensor.	X				X
Inspect front wheel bearings.	X				
Change rear axle fluid.	X				X

410 SCHEDULE "B"

Miles (Kilometers)	60,000 (96 000)	63,750 (102 000)	67,500 (108 000)	71,250 (114 000)	75,000 (120 000)
Change front axle fluid (4X4).	X				X
Change 6-spd manual transmission (G-56) fluid 2500/3500 models only.					X
Inspect brake linings.	X				X
Inspect and adjust parking brake if necessary.	X				X
Drain and refill transfer case fluid (4X4).	X				
Drain and refill automatic transmission fluid and change main sump filter (545 RFE only).	X				
Drain and refill automatic transmission fluid. Re- place filter and adjust bands (48RE only).	X				

Miles (Kilometers)	78,750 (126 000)	82,500 (132 000)	86,250 (138 000)	90,000 (144 000)	93,750 (150 000)
Change engine oil and engine oil filter.		X		X	
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.		X		X	
Lubricate outer tie rod ends 2500/3500 (4X4) models only.		X		X	
Inspect drive belt, replace as required.				X	
Change rear axle fluid.				X	
Change front axle fluid (4X4).				X	
Check transfer case fluid level (4X4).				X	
Inspect fan hub.				X	
Inspect damper.				X	
Inspect water pump weep hole for blockage.				X	
Replace fuel filter element. Clean the water in fuel sensor.				X	

412 SCHEDULE "B"

Miles (Kilometers)	78,750 (126 000)	82,500 (132 000)	86,250 (138 000)	90,000 (144 000)	93,750 (150 000)
Inspect front wheel bearings.				X	
Inspect brake linings.				X	
Inspect and adjust parking brake if necessary.				X	
Drain and refill automatic transmission fluid. Replace filter and adjust bands (48RE only).				X	

Miles (Kilometers)	97,500 (156 000)	100,000 (160 000)	101,250 (162 000)	105,000 (168 000)	108,750 (174 000)	112,500 (180 000)
Change engine oil and engine oil filter.	X			X		X
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X	X
Flush and replace engine coolant, if not replaced at 60 months.			X			
Rotate tires.	X			X		X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X			X		X
Flush and replace engine coolant.		X				
Inspect drive belt, replace as required.						X
Inspect water pump weep hole for blockage.				X		
Replace fuel filter element. Clean the water in fuel sensor.				X		
Change rear axle fluid.				X		
Change front axle fluid (4X4).				X		
Inspect brake linings.				X		
Inspect and adjust parking brake if necessary.				X		

414 SCHEDULE "B"

Miles (Kilometers)	116,250 (186 000)	120,000 (192 000)	123,750 (198 000)	127,500 (204 000)	131,250 (210 000)	135,000 (216 000)
Change engine oil and engine oil filter.		X		X		X
Lubricate Front Drive Shaft Fitting (2500/ 3500, 4X4).	X	X	X	X	X	X
Rotate tires.		X		X		X
Flush and replace engine coolant at 120 months, if not replaced at 102,000 miles (163 000 km).	X					
Lubricate outer tie rod ends 2500/3500 (4X4) models only.		X		X		X
Clean engine air filter canister.						X
Adjust valve lash clearance.						X
Inspect drive belts, replace as required.						X
Drain and refill transfer case fluid (4X4).		X				
Inspect fan hub.		X				
Inspect damper.		X				
Inspect water pump weep hole for blockage.		X				X

Miles (Kilometers)	116,250 (186 000)	120,000 (192 000)	123,750 (198 000)	127,500 (204 000)	131,250 (210 000)	135,000 (216 000)
Replace fuel filter element. Clean the water in fuel sensor.		X				X
Inspect front wheel bearings.		X				
Change rear axle fluid.		X				X
Change front axle fluid (4X4).		X				X
Change 6-spd manual transmission (G-56) fluid 2500/3500 models only.						X
Inspect brake linings.		X				X
Inspect and adjust parking brake if necessary.		X				X
Drain and refill automatic transmission fluid and change main sump and spin-on cooler return filter (if equipped) (545 RFE only).		X				
Drain and refill automatic transmission fluid. Replace filter and adjust bands (48RE only).		X				

Inspection and service should also be performed anytime a malfunction is observed or suspected. Retain all receipts.

416 SCHEDULE "A"

Schedule "A"

Miles (Kilometers) [Months]	7,500 (12 000) [6]	15,000 (24 000) [12]	22,500 (36 000) [18]	30,000 (48 000) [24]	37,500 (60 000) [30]
Change engine oil and engine oil filter.		X		X	
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.	X	X	X	X	X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X	X	X	X	X
Check transfer case fluid level (4X4).				X	
Inspect water pump weep hole for blockage		X		X	
Replace fuel filter element. Clean the water in fuel sensor.		X		X	
Inspect drive belts, replace as necessary.			X		
Inspect brake linings.			X		
Inspect and adjust parking brake if necessary.			X		
Inspect fan hub.				X	
Inspect damper.				X	
Inspect front wheel bearings.				X	

Miles (Kilometers) [Months]	45,000 (72 000) [36]	52,500 (84 000) [42]	60,000 (96 000) [48]	67,500 (108 000) [54]	75,000 (120 000) [60]
Change engine oil and engine oil filter.	X		X		X
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.	X	X	X	X	X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X	X	X	X	X
Check transfer case fluid level.			X		
Flush and replace engine coolant at 60 months, if not replaced at 102,000 miles (163 000 km).					X
Inspect drive belts, replace as necessary.	X			X	
Inspect water pump weep hole for blockage	X		X		X
Replace fuel filter element. Clean the water in fuel sensor.	X		X		X
Inspect brake linings.	X			X	
Inspect and adjust parking brake if necessary.	X			X	

418 SCHEDULE "A"

Miles (Kilometers) [Months]	45,000 (72 000) [36]	52,500 (84 000) [42]	60,000 (96 000) [48]	67,500 (108 000) [54]	75,000 (120 000) [60]
Inspect fan hub.			X		
Inspect damper.			X		
Inspect front wheel bearings.			X		
Replace fuel filter element. Clean the water in fuel sensor			X		

Miles (Kilometers) [Months]	82,500 (132 000) [66]	90,000 (144 000) [72]	97,500 (156 000) [78]	100,000 (160 000)	105,000 (168 000) [84]
Change engine oil and engine oil filter.		X			X
Lubricate Front Drive Shaft Fitting (2500/3500, 4X4).	X	X	X	X	X
Rotate tires.	X	X	X	X	X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X	X	X	X	X
Flush and replace engine coolant, if not replaced at 60 mos.				X	
Check transfer case fluid level (4X4).		X			
Inspect drive belt, replace as required.		X			
Inspect fan hub.		X			
Inspect damper.		X			
Inspect water pump weep hole for blockage.		X			X
Replace fuel filter element. Clean the water in fuel sensor.		X			X

420 SCHEDULE "A"

Miles (Kilometers) [Months]	82,500 (132 000) [66]	90,000 (144 000) [72]	97,500 (156 000) [78]	100,000 (160 000)	105,000 (168 000) [84]
Inspect front wheel bearings.		X			
Inspect brake linings.		X			
Inspect and adjust parking brake if necessary.		X			
Drain and refill automatic transmission fluid. Re- place filter and adjust bands (48 RE only).				X	

Miles (Kilometers) [Months]	112,500 (181 000) [90]	120,000 (193 000) [96]	127,500 (205 000) [102]	135,000 (217 000) [108]	142,500 (229 000) [114]	150,000 (241 000) [120]
Change engine oil and engine oil filter.		X		X		X
Lubricate Front Drive Shaft Fitting (2500/ 3500, 4X4).	X	X	X	X	X	X
Rotate tires.	X	X	X	X	X	X
Lubricate outer tie rod ends 2500/3500 (4X4) models only.	X	X	X	X	X	X
Flush and replace engine coolant at 120 months, if not replaced at 100,000 miles (160 000 km).					X	
Inspect drive belt, replace as required.	X			X		
Drain and refill transfer case fluid (4X4).		X				
Check transfer case fluid level (4X4).						X
Inspect fan hub.		X			X	
Inspect damper.		X			X	
Inspect water pump weep hole for blockage.		X		X	X	

422 SCHEDULE "A"

Miles (Kilometers) [Months]	112,500 (181 000) [90]	120,000 (193 000) [96]	127,500 (205 000) [102]	135,000 (217 000) [108]	142,500 (229 000) [114]	150,000 (241 000) [120]
Replace fuel filter element. Clean the water in fuel sensor.		X		X		X
Inspect front wheel bearings.		X			X	
Inspect brake linings.	X			X		
Inspect and adjust parking brake if necessary.	X			X		
Adjust valve lash clearance.						X

Inspection and service should also be performed anytime a malfunction is observed or suspected. Retain all receipts.

WARNING!

You can be badly injured working on or around a motor vehicle. Do only that service work for which you have the knowledge and the right equipment. If you have any doubt about your ability to perform a service job, take your vehicle to a competent mechanic.