

SCHEDULED MAINTENANCE [European (L.H.D. U.K.) specs. (L3 Turbo)]

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Scheduled Maintenance Table For Europe (L.H.D U.K.) L3 Turbo engine

Maintenance Interval	Number of months or kilometers (miles), whichever comes first													
	Months		12	24	36	48	60	72	84	96	108	120	132	144
	×1000 km	5	15	30	45	60	75	90	105	120	135	150	165	180
	×1000 miles	3	9	18	27	36	45	54	63	72	81	90	99	108
Engine valve clearance	Audible inspect every 120,000 km (72,000 miles), if noisy, adjust													
Drive belts *1						I				I				I
Spark plugs *2	Replace every 90,000 km (54,000 miles)													
Air cleaner element *3	Replace every 60,000 km (36,000 miles) or 3 years													
Evaporative system (if installed)						I				I				I
Engine oil *4	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter *4	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Cooling system			I			I		I		I		I		I
Engine coolant	FL22 type *5	Replace every 195,000 km (117,000 miles) or 11 years												
	Others	Replace at first 90,000 km (54,000 miles) or 4 years; after that, every 2 years												
Fuel lines and hoses			I			I		I		I		I		I
Battery electrolyte level and specific gravity			I	I	I	I	I	I	I	I	I	I	I	I
Brake lines, hoses and connections			I	I	I	I	I	I	I	I	I	I	I	I
Brake fluid *6			R			R		R		R		R		R
Parking brake			I	I	I	I	I	I	I	I	I	I	I	I
Disc brakes			I	I	I	I	I	I	I	I	I	I	I	I
Power steering fluid, lines, hoses and connections			I	I	I	I	I	I	I	I	I	I	I	I
Steering operation and linkages				I		I		I		I		I		I
Manual transaxle oil								R						R
Front and rear suspension and ball joints, wheel bearing axial play			I			I		I		I		I		I
Driveshaft dust boots			I			I		I		I		I		I
Exhaust system and heat shields							I					I		
Bolts and nuts on chassis and body			T			T		T		T		T		T
Body condition (for rust, corrosion and perforation)	Inspect annually													
Cabin air filter (if installed)	Replace every 40,000 km (24,000 miles) or 2 years													
Tires (including spare tire)(with inflation pressure adjustment)		I	I	I	I	I	I	I	I	I	I	I	I	I

Chart symbols

I: Inspect: Inspect and clean, repair, adjust, or replace if necessary.

R: Replace

C: Clean

D: Drain

T: Tighten

Remarks

Emission control and related systems

- The ignition and fuel systems are highly important to the emission control system and to efficient engine operation.
All inspections and adjustments must be made by an expert repairer, we recommend an Authorized Mazda Repairer.
- After the prescribed period, continue to follow the described maintenance at the recommended intervals.
- Refer below for a description of items marked* in the maintenance chart.
 - *1: Also inspect and adjust the power steering and air conditioner drive belts, if installed.
 - *2: In the countries below, inspect the spark plugs at every 15,000 km (9,000 miles) or 12 months before replacing them at the said interval.
Croatia, Macedonia, Bosnia and Herzegovina, Serbia, Montenegro, Bulgaria, Romania, Albania, Moldova
 - *3: If the vehicle is operated in very dusty or sandy areas, clean and if necessary, replace the air cleaner element more often than the recommended intervals.
 - *4: If the vehicle is operated primarily under any of the following conditions, replace the engine oil and oil filter at every 10,000 km (6,000 miles) or shorter.

- a. Driving in dusty conditions
- b. Extended periods of idling or low speed operation
- c. Driving for long period in cold temperatures or driving regularly at short distance only

*5: Use FL22 type coolant in vehicles with the inscription "FL22" on the radiator cap itself or the surrounding area. Use FL22 when replacing the coolant.

*6: If the brakes are used extensively (for example, continuous hard driving or mountain driving) or if the vehicle is operated in extremely humid climates, replace the brake fluid annually.

Scheduled Maintenance Service (Specific Work Required)

- The specific work required for each maintenance item is listed in the following table. (Please refer to the section applicable to the model serviced.)

Maintenance Item	Specific Work Required
ENGINE	
Engine valve clearance	Inspect engine valve clearance.
Engine timing belt	Replace engine timing belt.
Engine timing belt auto tensioner	Replace engine timing belt auto tensioner.
Drive belts	Inspect for wear, cracks, fraying and tension.
Engine oil	Replace engine oil and inspect for leakage.
Engine oil filter	Replace engine oil filter and inspect for leakage.
COOLING SYSTEM	
Cooling system (Including coolant level adjustment)	Check engine coolant level and quality, and inspect for leakage.
Radiator cap	Inspect radiator cap.
Engine coolant	Replace engine coolant.
FUEL SYSTEM	
Idle speed	Check engine idle rpm.
Idle mixture	Inspect the CO and HC concentrations (see W/M).
Choke system	Check system operation.
Air cleaner element	Inspect dirt, oil and damage. Clean air cleaner element (by blowing air). Replace air cleaner element.
Fuel filter	Replace fuel filter.
Fuel injection pump inlet filter	Clean fuel injection pump inlet filter.
Fuel lines and hoses	Inspect for cracks, leakage and loose connection.
Fuel lines, hoses and connections	
Fuel injection system	Update to injection amount correction with WDS (see W/M). Update to injection amount correction with M-MDS (see W/M).
Fuel system (Drain water)	Drain water in fuel system.
Diesel particulate filter	Replace diesel particulate filter.
Fuel additive for diesel particulate filter	Fill up fuel additive.
IGNITION SYSTEM	
Initial ignition timing	Check initial ignition timing.
Spark plugs	Inspect for wear, damage, carbon, plug gap and high-tension lead condition. Replace spark plugs.
Ignition cables condition/security	Inspect for damage, condition and connection.
EMISSION CONTROL SYSTEM	
Evaporative system	Check system operation (see W/M), vapor lines, vacuum fitting hoses and connection.
Evaporative emission control system	
Crankcase emission control system	Check system operation (see W/M), PCV valve, blow-by lines, vacuum fitting hoses and connection.
E.G.R system	Check system operation (see W/M), vacuum fitting hoses and connection. MZR-CD (RF turbo) engine: Update to MAF correction for E.G.R control with WDS (see W/M). MZR-CD (RF turbo) engine: Update to MAF correction for E.G.R control with M-MDS (see W/M).
Air intake system	Update to MAF correction (see W/M).
Throttle positioner system	Check the diaphragm and system operation, vacuum fitting hoses and connection.
Dash pot	Check system operation.
ELECTRICAL SYSTEM	
Battery electrolyte level and specific gravity	Check battery electrolyte level and specific gravity.
Battery condition	Check battery for corroded or loose connections and cracks.
Battery	Check battery for leakage and corrosion.

Maintenance Item	Specific Work Required
All electrical system	Check function of lighting system, windshield wiper (including wiper blade condition), washer and power windows.
Lighting system and windshield wipers and washer	
Head light alignment	Check head light alignment.
CHASSIS AND BODY	
Brake and clutch pedals Brake pedals	Check pedal height and free play.
Brake fluid	Check brake fluid level and for leakage. Replace brake fluid.
Clutch fluid	Check Clutch fluid level and for leakage.
Brake lines, hoses and connections	Inspect for cracks, damage, chafing, corrosion, scars, swelling and fluid leakage.
Parking brake	Check parking lever stroke.
Power brake unit and hoses Power brake unit (Brake booster) and hoses	Check vacuum lines, connections, and check valve for improper attachment, air tightness, cracks chafing and deterioration.
Disc brakes	Inspect caliper for correct operation and fluid leakage, brake pads for wear. Check disc plate condition and thickness. Test for judder and noise.
Drum brakes	Inspect brake drum for wear and scratches: brake lining for wear, peeling and cracks; wheel cylinder for fluid leakage. Test for judder and noise.
Manual steering gear oil	Check manual gear oil level.
Power steering fluid, lines, hoses and connections Power steering fluid and lines	Check power steering fluid level and lines for improper attachment, leakage, cracks, damage, loose connections, chafing and deterioration.
Steering operation and gear housing Steering linkages tie rod ends and arms Steering operation and linkages	Check that the steering wheel has the specified play. Be sure to check for changes, such as excessive play, hard steering or strange noises. Check gear housing and boots for looseness, damage and grease/gear oil leakage. Check ball joint, dust cover and other components for looseness, wear, damage and grease leakage.
Front and rear suspension and ball joints Front suspension ball joints Front and rear suspension, ball joints and wheel bearing axial play	Inspect for grease leakage, crack, damage and looseness. Inspect for grease leakage, crack, damage, looseness and wheel bearing play/noise.
Wheel bearing axial play	Inspect for wheel bearing play/noise.
Manual transmission/transaxle oil	Check manual transmission/transaxle oil level and for leakage. Replace manual transmission/transaxle oil.
Automatic transmission/transaxle fluid level	Check automatic transmission/transaxle fluid level.
Automatic transmission/transaxle fluid	Replace automatic transmission/transaxle fluid.
Front and rear differential oil Front differential oil Front axle oil Rear differential oil Rear axle oil	Check front and rear differential oil level and inspect for leakage. Replace front and rear differential oil.
Transfer oil	Check transfer oil level inspect for leakage. Replace transfer oil
Front and rear wheel bearing grease Front wheel bearing grease	Remove wheel bearing and replace wheel bearing grease.
Wheel bearing axial play Wheel bearing axial play (rear) and lateral play (front)	Inspect wheel bearing play and noise.
Propeller shaft joints Front propeller shaft joints Rear propeller shaft joints	
Drive shaft dust boots	Inspect for grease leakage, crack, damage and looseness.
Wheel nuts	Tighten wheel nuts.
Bolts and nuts on chassis and body Bolts and nuts on seats	Tighten bolts and nuts fastening suspension components, members and seat frames.
Body condition (for rust, corrosion and perforation)	Inspect body surface for paint damage, rust, corrosion and perforation.
Exhaust system and heat shields Exhaust pipe connections	Inspect for damage, corrosion, looseness of connections and gas leakage.
Tire rotation	Rotate tires.
Tires (Including spare tire)(with inflation pressure adjustment)	Check air pressure and inspect tires for tread wear, damage, cracks; and wheels for damage and corrosion.

Maintenance Item	Specific Work Required
Flat tire repair kit	Check tire repair fluid expiration date.
Hinges and catches	Lubricate hinges and catches of doors, trunk lid and hood.
Underside of vehicle	Inspect underside of vehicle (floor pans, frames, fuel lines, around exhaust system etc.) for damage and corrosion.
Road test	Check brake operation/clutch operation/steering control/operation of meters and gauges/squeaks, rattles, or unusual noises/engine general performance/emergency locking retractors.
Diagnostic trouble code by WDS	Check diagnostic trouble code with WDS (see W/M).
Diagnostic trouble code by M-MDS	Check diagnostic trouble code with M-MDS (see W/M).
M-MDS check of Vehicle Management and Safety Systems	Check the items below with M-MDS (see W/M). (1) Retrieve All CMDTCs (2) PCM function test (except Tribute and diesel engine models) (3) PCM Input/Output Data Monitor (except Tribute and diesel engine models) (4) Adviser Comment (except Tribute and diesel engine models)
AIR CONDITIONER SYSTEM	
Cabin air filter	Replace cabin air filter.