

GENERAL MAINTENANCE

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General Maintenance

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General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform the checks and inspections themselves or they can have their **NISSAN** dealers do them.

OUTSIDE THE VEHICLE

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Item	Reference page	
Doors and engine hood	Check that all doors and the engine hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.	MA-44
Lamps	Clean the headlamps on a regular basis. Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly and installed securely. Also check the aim of the headlamps.	—
Tires	Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.	WT-49
Tire rotation	In the case that Two-Wheel Drive (2WD) and front & rear tires are same size; Tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that Four-Wheel Drive (4WD) and front & rear tires are same size; Tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that front tires are different size from rear tires; Tires cannot be rotated. However, the timing for tire rotation may vary according to your driving habits and the road surface conditions.	MA-36
Tire Pressure Monitoring System (TPMS) transmitter components (if equipped)	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	WT-46
Wheel alignment and balance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	FSU-7 RSU-6 MA-36
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	—
Wiper blades	Check for cracks or wear if not functioning correctly.	—

INSIDE THE VEHICLE

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Item	Reference page	
Accelerator pedal	Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—
Brake pedal	Check the pedal for smooth operation and make sure that it attains the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-8(LHD) BR-54(RHD)
Parking brake	Check the parking brake operation regularly. Check that the lever (if equipped) or the pedal (if equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	PB-2

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	Item	Reference page
Seat belts	Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-44
Steering wheel	Check for changes in the steering condition, such as excessive play, hard steering or strange noises. Check that it has the specified play. Free play: Less than 35 mm (1.38 in)	—
Warning lamps and chimes	Make sure that all warning lamps and chimes are operating properly.	—
Windshield defogger	Check that the air comes out of the defogger outlets properly and in good quantity when operating the heater or air conditioner.	—
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	—

UNDER THE HOOD AND VEHICLE

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel.)

	Item	Reference page
Battery	Except for maintenance free battery; Check the fluid level in each cell. It should be between the "UPPER" and "LOWER" lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	PG-3
Brake (and clutch) fluid level(s)	For Manual Transmission (MT) model; Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir(s). Except for Manual Transmission (MT) model; Make sure that the brake fluid level is between the "MAX" and "MIN" lines on the reservoir.	MA-38 MA-33
Engine coolant level	Check the coolant level when the engine is cold. Make sure that the coolant level is between the "MAX" and "MIN" lines on the reservoir.	MA-15 (Type 1) MA-19 (Type 2)
Engine drive belt(s)	Make sure that drive belt(s) is/are not frayed, worn, cracked or oily.	MA-15
Engine oil level	Check the level after parking the vehicle (on a level ground) and turning off the engine.	LU-8
Fluid leaks	Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for cause and have it corrected immediately.	—
Power steering fluid level and lines	Check the level when the fluid is cold with the engine off. Check the lines for proper attachment, leaks, cracks, etc.	MA-42
Windshield washer fluid	Check that there is adequate fluid in the reservoir tank.	—

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MA

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Periodic Maintenance

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The following tables show the normal maintenance schedule. Depending upon weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage, additional or more frequent maintenance may be required.

Periodic maintenance beyond the last period shown on the tables requires similar maintenance.

ENGINE AND EMISSION CONTROL MAINTENANCE (EXCEPT FOR SOUTH AFRICA)

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace, E = Check and correct the engine coolant mixture ratio.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference page
Perform either at number of kilometers (miles) or months, whichever comes first.	km × 1,000 (Miles × 1,000) Months	10 (6)	20 (12)	30 (18)	40 (24)	50 (30)	60 (36)	70 (42)	80 (48)	
Underhood and under vehicle										
Intake & exhaust valve clearance	See NOTE (1)									EM-18
Drive belt(s)	See NOTE (2)				I				I	MA-15
Engine oil (Use recommended oil.)★		R	R	R	R	R	R	R	R	MA-26
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent)★		R	R	R	R	R	R	R	R	MA-26
Engine coolant	See NOTE (3)					E			E	MA-16 (Type 1) MA-20 (Type 2)
Cooling system			I		I			I	I	MA-15 (Type 1) MA-19 (Type 2) MA-23 MA-23 MA-24
Fuel lines					I				I	MA-25
Air cleaner filter (Viscous paper type)★					R				R	MA-25
Air cleaner filter (Dry paper type)★		Replace every 5,000 km (3,000 miles)								
Fuel filter (In-tank type)	See NOTE (4)				R				R	—
Spark plugs (Iridium-tipped type)	See NOTE (5)	Replace every 100,000 km (60,000 miles)								MA-28
EVAP vapor lines (With carbon canister)					I				I	MA-29

NOTE:

- **Maintenance items with “★” should be performed more frequently according to “Maintenance Under Severe Driving Conditions”.**
- (1) Periodic maintenance is not required. However, if valve noise increases, check valve clearance.
- (2) Replace the drive belt if found damaged or if the auto belt tensioner reading reaches the maximum limit.
- (3) Use Genuine NISSAN Engine Coolant (blue) or equivalent in its quality, in order to avoid possible aluminium corrosion within the engine cooling system caused by the use of non-genuine engine coolant. Check and correct the engine coolant mixture ratio every 40,000 km (24,000 miles) or 24 months. First replacement interval is 160,000 km (96,000 miles) or 96 months. After first replacement, replace every 80,000 km (48,000 miles) or 48 months.
- (4) Maintenance-free item. For service procedures, refer to FL section.
- (5) Replace spark plug when the spark plug gap exceeds 1.4 mm (0.055 in) even if within specified periodic replacement mileage.

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CHASSIS AND BODY MAINTENANCE (EXCEPT FOR SOUTH AFRICA)

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace, L = Lubricate.

MAINTENANCE OPERATION	km × 1,000 (Miles × 1,000) Months	MAINTENANCE INTERVAL								Reference page
		10 (6)	20 (12)	30 (18)	40 (24)	50 (30)	60 (36)	70 (42)	80 (48)	
Underhood and under vehicle										
Brake and clutch fluid (For level & leaks)		I	I	I	I	I	I	I	I	MA-38 MA-33
Brake fluid★					R				R	MA-39
Brake booster vacuum hoses, connections & check valve					I				I	BR-14 (LHD) BR-60 (RHD)
Brake, clutch & exhaust system		I	I	I	I	I	I	I	I	MA-39 MA-33 MA-30
Power steering fluid & lines (For level & leaks)		I*1	I	I*1	I	I*1	I	I*1	I	MA-42
Automatic transmission fluid	See NOTE (1)									—
Manual transmission gear oil (For level & leaks)		I*1	I	I*1	I	I*1	I	I*1	I	MA-32
Differential gear oil (For level & leaks)★		I	I	I	I	I	I	I	I	MA-35
Steering gear & linkage, axle & suspension parts★			I		I		I		I	MA-41 MA-42
Outside and inside										
Wheel alignment (If necessary, balance wheels)			I		I		I		I	FSU-7 RSU-6 MA-36
Brake pads, rotors & other brake components★		I	I	I	I	I	I	I	I	MA-39 (LHD) BR-15 (LHD) BR-17 (LHD) MA-40 (RHD) BR-61 (RHD) BR-63 (RHD)
Locks, hinges & hood latch★		L*1	L	L*1	L	L*1	L	L*1	L	MA-44
Seat belts, buckles, retractors, anchors & adjusters			I		I		I		I	MA-44
Foot brake, parking brake & clutch (For free play, stroke & operation)		I*1	I	I*1	I	I*1	I	I*1	I	BR-8 (LHD) BR-54 (RHD) PB-2 CL-7
Air conditioner filter★			R		R		R		R	VTL-17

NOTE:

- Maintenance items with “★” should be performed more frequently according to “Maintenance Under Severe Driving Conditions”.

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- (1) Automatic transmission fluid is maintenance-free.

*1: Models except for Australia.

MAINTENANCE UNDER SEVERE DRIVING CONDITIONS (EXCEPT FOR SOUTH AFRICA)

The maintenance intervals shown on the preceding pages are for normal operating conditions. If the vehicle is mainly operated under severe driving conditions as shown below, more frequent maintenance must be performed on the following items as shown in the table.

Severe driving conditions

A — Driving under dusty conditions

B — Driving repeatedly short distances

C — Towing a trailer or caravan

D — Extensive idling

E — Driving in extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high

F — Driving in high humidity or mountainous areas

G — Driving in areas using salt or other corrosive materials

H — Driving on rough and/or muddy roads or in the desert

I — Driving with frequent use of braking or in mountainous areas

Maintenance operation : Inspect = Inspect and correct or replace as necessary.

Driving condition										Maintenance item	Maintenance operation	Maintenance interval	Reference page
A	.	.	.	.	.	.	.	.	.	Air cleaner filter	Replace	More frequently	MA-25
										Dry paper type			
A	B	C	D	.	.	.	.	.	.	Engine oil & engine oil filter	Replace	Every 5,000 km (3,000 miles) or 3 months	MA-26 MA-26
.	.	.	.	.	F	.	.	.	.	Brake fluid	Replace	Every 20,000 km (12,000 miles) or 12 months	MA-39
.	.	C	.	.	.	.	.	H	.	Differential gear oil	Replace	Every 40,000 km (24,000 miles) or 24 months	MA-35
.	.	.	.	.	.	G	H	.	.	Steering gear & linkage, axle & suspension parts	Inspect	Every 10,000 km (6,000 miles) or 6 months	MA-41 MA-42
A	.	C	.	.	.	G	H	I	.	Brake pads, rotors & other brake components	Inspect	Every 5,000 km (3,000 miles) or 3 months	MA-39 (LHD) BR-15 (LHD) BR-17 (LHD) MA-40 (RHD) BR-61 (RHD) BR-63 (RHD)
.	G	.	.	.	Locks, hinges & hood latch	Lubricate	Except for Australia: Every 5,000 km (3,000 miles) or 3 months For Australia: Every 10,000 km (6,000 miles) or 6 months	MA-44
A	Air conditioner filter	Replace	More frequently	VTL-17

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