MAINTENANCE

SECTION MA

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PRE-DELIVERY INSPECTION ITEMS

Shown below are Pre-delivery Inspection Items required for the new vehicle. It is recommended that necessary items other than those listed here be added, paying due regard to the conditions in each country.

Perform applicable items on each model. Consult text of this section for specifications.

UNDER HOOD — engine off
☐ Radiator coolant level and coolant hose connections for leaks
☐ Battery fluid level, specific gravity and conditions of battery terminals
☐ Drive belts tension
☐ Fuel filter for water or dusts (Diesel only), and fuel lines and connections for leaks
☐ Engine oil level and oil leaks
☐ Clutch and brake reservoir fluid level and fluid lines for leaks
☐ Windshield and rear window washer and headlamp cleaner reservoir fluid level
☐ Power steering reservoir fluid level and hose connections for leaks
ON INSIDE AND OUTSIDE
Remove front spring/strut spacer (If applicable)
☐ Operation of all instruments, gauges, lights and accessories
☐ Operation of horn(s), wiper and washer
☐ Steering lock for operation
☐ Check air conditioner for gas leaks
Front and rear seats, and seat belts for operation
All moldings, trims and fittings for fit and alignment
☐ All windows for operation and alignment
☐ Hood, trunk lid, door panels for fit and alignment
Latches, keys and locks for operation
☐ Weatherstrips for adhesion and fit
☐ Headlamp aiming
☐ Tighten wheel nuts (Inc. inner nuts if applicable)
☐ Tire pressure (Inc. spare tire)
☐ Check front wheels for toe-in
☐ Install clock/voltmeter/room lamp fuse (If applicable)
UNDER BODY
☐ Manual transmission/transaxle, transfer and differential gear oil level
☐ Brake and fuel lines and oil/fluid reservoirs for leaks
☐ Tighten bolts and nuts of steering linkage and gear box, suspension, propeller shafts and drive shafts
▼ Tighten rear body bolts and nuts (Models with wooden bed only)
ROAD TEST
☐ Clutch operation
Parking brake operation
☐ Service brake operation
☐ Automatic transmission/transaxle shift timing and kickdown
☐ Steering control and returnability
☐ Engine performance
□ Squeaks and rattles
ENGINE OPERATING AND HOT
★ Adjust idle speed
Automatic transmission/transaxle fluid level
☑ Engine idling and stop knob operation (Diesel only)
FINAL INSPECTION
☐ Install necessary parts (outside mirror, wheel covers, seat belts, mat, carpet or mud flaps)
☐ Inspect for interior and exterior metal and paint damage
☐ Check for spare tire, jack, tools (wheel chock), and literature
☐ Wash, clean interior and exterior
Tracin, clean intener and extener
-

GENERAL MAINTENANCE

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 for a nominal charge.

OUTSIDE THE VEHICLE

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

	Item								
Tires	Check the pressure with a gauge periodically when at a service station, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.	_							
Windshield wiper blades	Check for cracks or wear if not functioning correctly.	_							
Doors and engine hood	Check that all doors, the engine hood, the trunk lid and back door operate properly. Also ensure 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 for lubrication frequently.	BT-7 BT-16							
Tire rotation	Tires should be rotated every 10,000 km (6,000 miles).	SU-7							

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				
Lamps	Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly and installed securely. Also check headlamp aim.					
Warning lamps and chimes	Make sure that all warning lamps and buzzers/chimes are operating properly.	_				
Steering wheel	Check that it has the specified play. Check for changes in the steering conditions, such as excessive free play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	_				
Seat belts	Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	RS-4				

UNDER THE HOOD AND VEHICLE

The maintenance items listed here should be checked periodically e.g. each time you check the engine oil or refuel.

	Item	Reference page						
Windshield washer fluid	Check that there is adequate fluid in the tank							
Engine coolant level	LC-18, LC-43							
Engine oil level	Check the level after parking the vehicle (on level ground) and turning off the engine.	LC-8, LC-30						
Brake and clutch fluid levels	Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir.	BR-7						
Battery	Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines.	_						

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 (Gasoline engine)

Engine and Emission Control Maintenance (Gasoline engine)

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

MAINTENANCE OPERATION	MAINTENANCE INTERVAL										
Perform either at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	1 (0.6)	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Refer- ence page
	Underhood an	d und	er veh	icle							
Torque of manifolds & exhaust tube nuts*1		I									_
Intake & exhaust valve clearance*2				А		А		А		А	EM-42
Drive belts		l*1		I*1		I		I*1		ı	EM-15
Engine oil (Use API SE, SF, SG, SH or SJ oil.)★			R	R	R	R	R	R	R	R	LC-8
Engine oil filter (Use Part No. 15208 65F01 or equivalent)★			R	R	R	R	R	R	R	R	LC-9
Engine coolant (Use Nissan genuine engine coolant L2N or equivalent in its quality.)	See NOTE (1)					Е				R	LC-17
Cooling system				ı		I		ı		ı	LC-12
Fuel lines						I				ı	FE-5
Air cleaner filter (Dry paper type)★			С	С	С	R	С	С	С	R	EM-0
Air cleaner filter (Viscous paper type)★						R				R	EM-17
Fuel filter	See NOTE (2)										FE-9
Positive crankcase ventilation (PCV) system				I*1		I*1		I*1		I*1	EC-37
Spark plugs (Conventional type)*3						R				R	EM-18
Spark plugs (Conventional type, For leaded fuel)*1			I	R	I	R	ı	R	ı	R	EM-18
Spark plugs (Conventional type, For unleaded fuel)*1			I	I	I	R	I	I	I	R	EM-18
EVAP vapor lines (With carbon canister)						I				I	EC-34
Vacuum hoses & connections*1				ı		I		ı		ı	EC-27
Heated oxygen sensor (Exhaust gas sensor)						I				ı	EC-176

- **★** Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".
- (1) Use Nissan genuine engine coolant, or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine cooling system caused by the use of non-genuine engine coolant. After first replacement, replace every 40,000 km (24, 000 miles) or 24 months.
- (2) Maintenance-free item. For service procedures, refer to FE section.
- *1: Models without three way catalyst
- *2: For models with three way catalyst, periodic maintenance is not required. However, if valve noise increases, check valve clearance.
- *3: Models with three way catalyst

Chassis and Body Maintenance

Chassis and Body Maintenance

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

MAINTENANCE OPERATION	MAINTENANCE INTERVAL										
Perform either at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	1 (0.6)	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Reference page
	Und	erhoo	d and	unde	vehic	le				•	
Brake, clutch & automatic transaxle fluid (For level & leaks)★			ı	ı	ı	ı	ı	ı	ı	ı	BR-7, AT-78
Brake fluid★						R				R	BR-18
Brake booster vacuum hoses, connections & check valve						I				ı	BR-22
Power steering fluid & lines (For level & leaks)			l*1	ı	l*1	I	l*1	ı	l*1	ı	ST-7
Brake, clutch & exhaust systems			I	ı	I	I	ı	ı	ı	ı	BR-7, FE-11, FE-27
Manual transaxle gear oil (For level & leaks)			l*1	ı	l*1	ı	l*1	ı	l*1	ı	MT-15, MT-14
Steering gear & linkage, axle & suspension parts & drive shafts★		l*2		ı		ı		ı		ı	ST-7, SU-6, SU-7
		Outs	ide ar	nd insi	de		•	•			
Wheel alignment (If necessary, rotate & balance wheels)				ı		ı		ı		ı	SU-7, SU-14
Brake pads, rotors & other brake components★			I	ı	I	I	I	I	I	ı	BR-27, BR-35
Brake linings, drums & other brake components★				ı		I		I		ı	BR-33
Lock, hinges & hood latch★			L*1	L	L*1	L	L*1	L	L*1	L	BT-7, BT-16
Seat belts, buckles, retractors, anchors & adjuster				ı		I		ı		ı	RS-4
Foot brake, parking brake & clutch (For free play, stroke & operation)			l*1	ı	l*1	I	l*1	I	I*1	ı	BR-12, BR-47, CL-5
Ventilation air filter★		Replace every 12,000 km (7,500 miles) or 12 months HA-102							HA-102		
Supplemental air bag systems	See NOTE (1)										RS-25

⁽¹⁾ Inspect at the first 10 years, and then every 2 years.

[★] Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

^{*1:} Models except for Australia

^{*2:} Models without three way catalyst

Maintenance Under Severe Driving Conditions

Maintenance Under Severe Driving Conditions

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 areas or in 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: Check = Check and correct or replace as necessary.

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	Driving condition								Maintenance item	Maintenance operation	Maintenance interval	Reference page
Α									Air cleaner filter	Replace	More frequently	EM-17, EM-87
Α	В	С	D						Engine oil & oil filter (Gasoline engine)	Replace	Every 5,000 km (3,000 miles) or 3 months	LC-8, LC-9
					F				Brake fluid	Replace	Every 20,000 km (12,000 miles) or 12 months	BR-7
		С					Н		Automatic transaxle fluid	Replace	Every 40,000 km (24,000 miles) or 24 months	AT-15
						G	Н		Steering gear & linkage, axle & suspension parts & drive shafts	Check	Every 10,000 km (6,000 miles) or 6 months	ST-7, SU-6, SU-18
Α		С				G	Н	ı	Brake pads, rotors & other brake components	Check	Every 5,000 km (3,000 miles) or 3 months	BR-27, BR-35
Α		С				G	Н	ı	Brake linings, drums & other brake components	Check	Every 10,000 km (6,000 miles) or 6 months	BR-33
						G			Lock, hinges & hood latch	Lubricate	Every 5,000 km (3,000 miles) or 3 months	BT-16, BT-7
Α									Ventilation air filter	Replace	More frequently	HA-102

Maintenance Schedule for Petrol Engines (Annual Mileage < 30,000 km/year)

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.

Maintenance Schedule for Petrol Engines (Annual Mileage < 30,000 km/year)

Abbreviations: R = Replace I = Inspect: Correct or replace if necessary

QG15DE/QG18DE ENGINES

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MAINTENANCE OPERATION	MAINTENANCE INTERVAL								Defer		
Perform on a kilometer basis, but on an annual basis when driving less than 15,000 km (9,000 miles) per year	km x 1,000 (miles x 1,000) Months	15 (9) 12	30 (18) 24	45 (27) 36	60 (36) 48	75 (45) 60	90 (54) 72	105 (63) 84	120 (72) 96	Refer- ence pages	
	Engine compartment and under vehicle										
Engine oil (Use recommended oil)★		R	R	R	R	R	R	R	R	LC-8	
Engine oil filter (Use NISSAN genuine part or equivalent)★		R	R	R	R	R	R	R	R	LC-9	
Drive belts		ı	I	I	I	I	I	ı	I	EM-15	
Cooling system		I	I	I	I	I	I	ı	I	LC-12	
Engine anti-freeze coolant (Use genuine NISSAN Anti-Freeze Coolant (L2N) or equivalent)	See NOTE (1)			ı			R		ı	LC-17	
Air cleaner filter★					R				R	EM-17	
Intake and exhaust valve clearance	See NOTE (2)									EM-42	
Fuel and EVAP vapour lines			ı		ı		ı		I	FE-5/ EC-33	

NOTE

Spark plugs

Heated oxygen sensor (Exhaust gas

Fuel filter

sensor)★

(1) First replace at 90,000 km (54,000 miles)/60 months, then every 60,000 km (36,000 miles)/48 months. Perform "I" (Checking the mixture ratio and correcting the mixture ratio if necessary) at the middle of replacement interval.

R

R

R

R

EM-18

FE-9 GI-40.

EC-45

(2) Periodic maintenance is not required. However, if valve noise increases, check valve clearance.

See NOTE (3)

See NOTE (4)

- (3) Fuel filter is maintenance-free. For service procedures, refer to FE section.
- (4) Perform only according to "Maintenance Under Severe Driving Conditions" for models without Euro-OBD system. For models with Euro-OBD system, periodic maintenance is not required.
- ★ Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Petrol Engines (Annual Mileage < 30,000 km/year) (Cont'd)

CHASSIS AND BODY MAINTENANCE

CHASSIS AND BODY MAINT	ENANCE	Abbre	viations:	R = Re	place	I = Insp	ect: Co	rrect or	replace	=NJMA0043S0102 if necessary	
MAINTENANCE OPERATION		MAINTENANCE INTERVAL									
Perform on a kilometer basis, but on an annual basis when driving less than 15,000 km (9,000 miles) in a year.	km x 1,000 (miles x 1,000) Months	15 (9) 12	30 (18) 24	45 (27) 36	60 (36) 48	75 (45) 60	90 (54) 72	105 (63) 84	120 (72) 96	Refer- ence pages	
Underhood and under vehicle											
Headlamp aiming		I	1	I	I	I	I	I	I	EL-42	
Wheel alignment (if necessary, balance & rotate wheels)		ı	ı	I	ı	ı	I	ı	I	SU-6/ SU-18	
Brake pads, rotors & other brake components★		ı	ı	I	I	I	ı	ı	I	BR-27/ BR-28	
Foot brake, parking brake & clutch (for free play, stroke & operation)		ı	I	I	I	I	I	I	I	BR-12/ BR-48/ CL-0	
Brake booster vacuum hoses, connections, check valve			I		I		I		I	BR-21	
Brake & clutch, systems and fluid (for level and leaks)		I	I	I	I	I	I	I	I	BR-7	
Brake fluid★			R		R		R		R	BR-7	
Power steering fluid and lines (for level and leaks)		I	ı	ı	I	ı	I	I	ı	ST-7	
Supplemental air bag systems	See NOTE (1)									RS-25	
Ventilation air filter★			R		R		R		R	HA-102	
Manual transaxle gear oil (check for leakage. Use genuine NISSAN XZ gear oil or exact equivalent)		I	ı	ı	ı	ı	ı	I	ı	MT-14 MT-15	
Automatic transaxle fluid (for level and leaks)★		ı	ı	I	I	I	I	ı	I	AT-78	
Steering gear & linkage, axle & suspension parts, drive shafts, exhaust system★			I		I		I		I	ST-7/ SU-6/ SU-18/ FE-11	
NISSAN Mobility System	See NOTE (2)		1	I	ı	I	ı	ı	I	_	
Body corrosion	See NOTE (3)									BT-6	

- (1) Inspect after 10 years, then every 2 years.
- (2) Check expiration date of the tyre sealant bottle. Replace if necessary.
- (3) Inspect once per year.
- \star Maintenance items with " \star " should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Diesel Engines (Annual Mileage < 30,000 km/year)

Maintenance Schedule for Diesel Engines (Annual Mileage < 30,000 km/year)

YD22DDT ENGINE

=NJMA0043S02

Abbreviations: R = Replace I = Inspect: Correct or replace if necessary

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MAINTENANCE OPERATION			MAI					
Perform on a kilometer basis, but on an annual basis when driving less than 20,000 km (12,000 miles) per year.	km x 1,000 (miles x 1,000) Months	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	120 (72) 72	Reference pages
	Engine co	ompartme	ent and u	nder veh	icle			
Engine oil (Use recommended oil)★		R	R	R	R	R	R	LC-30
Engine oil filter (Use Eco filter or equivalent)★	See NOTE (1)	R	R	R	R	R	R	LC-31
Drive belts		ı	I	I	I	I	ı	EM-84
Cooling system		I	I	I	I	I	I	LC-37
Engine anti-freeze coolant (Use genuine NISSAN Anti-freeze Coolant (L2N) or equivalent)	See NOTE (2)		I				I	LC-43
Air cleaner filter★				R			R	EM-87
Intake & exhaust valve clearance	See NOTE (3)							EM-132
Fuel lines			ı		ı		ı	FE-16
Injection nozzles	See NOTE (4)							EC-509
Fuel filter★			R		R		R	FE-16

⁽¹⁾ Oil filter element assembly and O-ring seal are replacement parts.

⁽²⁾ First replace at 100,000 km (60,000 miles)/60 months, then every 60,000 km (36,000 miles)/36 months. After first replacement, perform "I" (checking the mixture ratio and correcting the mixture ratio if necessary) at the middle of replacement interval.

⁽³⁾ If valve noise increases, check valve clearance.

⁽⁴⁾ If engine power decreases, black exhaust smoke is emitted or engine noise increases, check injection nozzles and if necessary, replace injection nozzle assembly.

[★] Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Diesel Engines (Annual Mileage < 30,000 km/year) (Cont'd)

CHASSIS AND BODY MAINTENANCE

Abbreviations: R = Replace I = Inspect: Correct or replace if necessary

		Abbi	eviations	5. K = K	epiace	1 = 1115	peci. Co	rrect or replace if necessa
MAINTENANCE OPERATION			MAIN	TENAN	CE INTE	RVAL		
Perform on a kilometer basis, but on an annual basis when driving less than 20,000 km (12,000 miles) per year.	km x 1,000 (miles x 1,000) Months	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	120 (72) 72	Reference pages
	Unde	rhood a	nd unde	r vehic	le			
Headlamp aiming		I	I	I	I	I	I	EL-42
Wheel alignment (if necessary, balance & rotate wheels)		I	I	I	I	I	I	SU-14 SU-7
Brake pads, rotors & other brake components★		I	I	I	I	I	I	BR-27 BR-28
Foot brake, parking brake & clutch (for free play, stroke & operation)		I	I	I	ı	ı	I	BR-12 BR-48 CL-0
Brake booster vacuum hoses, connections, check valve			ı		I		I	BR-21
Brake & clutch, systems and fluid (for level and leaks)		I	ı	I	ı	ı	I	BR-7
Brake fluid★			R		R		R	BR-7
Power steering fluid and lines (for level and leaks)		I	ı	I	ı	I	I	ST-7
Supplemental air bag systems	See NOTE (1)							RS-25
Ventilation air filter★		R	R	R	R	R	R	HA-102
Manual transaxle gear oil (check for leakage. Use genuine NISSAN XZ gear oil or exact equivalent)		ı	I	I	ı	I	I	MT-14 MT-15
Steering gear & linkage, axle & suspension parts, drive shafts, exhaust system★			I		I		I	ST-7 SU-6 SU-18 FE-27
NISSAN Mobility System	See NOTE (2)		I	I	I	I	I	_
Body corrosion	See NOTE (3)							BT-6

⁽¹⁾ Inspect after 10 years, then every 2 years.

⁽²⁾ Check expiration date of the tyre sealant bottle. Replace if necessary.

⁽³⁾ Inspect once per year.

[★] Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Under Severe Driving Conditions (Annual Driving Distance < 30,000 km/year)

Maintenance Under Severe Driving Conditions (Annual Driving Distance < 30,000 km/year)

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.

- 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 areas or in 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
- J Frequent off road use or driving in water
- K Sustained high speed driving
- L For models without Euro-OBD system

				Driv	ving	cond	ition			Maintenance item	Maintenance operation	Maintenance interval
										Engine oil & eng	gine oil filter	
Α	В	С	D							Petrol models	Replace	Every 7,500 km (4,500 miles) or 6 months
										Diesel models	Replace	Every 10,000 km (6,000 miles) or 6 months
										Air cleaner filter	r	
Α										Petrol models	Replace	Every 30,000 km (18,000 miles) or 24 months
										Diesel models	Replace	Every 30,000 km (18,000 miles) or 18 months
										Fuel filter		
Α		•	•	Е			•			Diesel models	Replace	Every 20,000 km (12,000 miles) or 12 months
										Heated Oxygen	Sensor 1 (Front)	
-									L	Petrol models	Inspect	Every 30,000 km (18,000 miles) or 24 months
										Heated Oxygen	Sensor 2 (Rear)	
									L	Petrol models	Inspect	Every 30,000 km (18,000 miles) or 24 months
										Ventilation air fi	Iter	
Α										Petrol models	Replace	Every 15,000 km (9,000 miles) or 12 months
										Diesel models	Replace	Every 10,000 km (6,000 miles) or 6 months
										Brake fluid		
					F					Petrol models	Replace	Every 15,000 km (9,000 miles) or 12 months
										Diesel models	Replace	Every 20,000 km (12,000 miles) or 12 months

Maintenance Under Severe Driving Conditions (Annual Driving Distance < 30,000 km/year) (Cont'd)

		Driv	/ing (condi	tion			Maintenance item	Maintenance operation	Maintenance interval
								Automatic trans	axle fluid	
	С			•	Н	•	·	Petrol models	Replace	Every 30,000 km (18,000 miles) or 24 months
								Brake pads, rote	ors & other brake	e system components
Α	С			G	Н	ı		Petrol models	Inspect	Every 7,500 km (4,500 miles) or 6 months
								Diesel models	Inspect	Every 10,000 km (6,000 miles) or 6 months
								Steering gear & exhaust system		suspension parts, drive shafts,
				G	Н			Petrol models	Inspect	Every 15,000 km (9,000 miles) or 12 months
								Diesel models	Inspect	Every 20,000 km (12,000 miles) or 12 months

Maintenance Schedule for Petrol Engines (Annual Mileage > 30,000 km/year)

Maintenance Schedule for Petrol Engines (Annual Mileage > 30,000 km/year)

QG15DE/QG18DE ENGINES

=NJMA0043S04

EC-45

QG13DE/QG16DE ENGINES		Abbre	viations:	R = Re	place	I = Insr	ect: Co	rrect or	replace	NJMA0043S0401
MAINTENANCE OPERATION		1.00.0	. 0							
MAINTENANCE OPERATION				IVIAIIN	IENAN	CE INTE	RVAL			Refer-
Perform on a kilometer basis only.	km x 1,000 (miles x 1,000)	15 (9)	30 (18)	45 (27)	60 (36)	75 (45)	90 (54)	105 (63)	120 (72)	ence pages
	Engine com	partmei	nt and ເ	ınder ve	hicle	1	•	'	•	
Engine oil (Use recommended oil)★		R	R	R	R	R	R	R	R	LC-8
Engine oil filter (Use NISSAN genuine part or equivalent)★		R	R	R	R	R	R	R	R	LC-9
Drive belts		1	1	I	I	1	1	ı	1	EM-15
Cooling system			1		I		1		1	LC-12
Engine anti-freeze coolant (Use genuine NISSAN Anti-Freeze Coolant (L2N) or equivalent)	See NOTE (1)			I			R		ı	LC-17
Air cleaner filter★					R				R	EM-17
Intake & exhaust valve clearance	See NOTE (2)									EM-42
Fuel and EVAP vapor lines					I				ı	FE-5/ EC-36
Spark plugs			R		R		R		R	EM-18
Fuel filter	See NOTE (3)									FE-9
Heated oxygen sensor★	See NOTE (4)									GI-40/ FC-45

- (1) First replace at 90,000 km (54,000 miles), then every 60,000 km (36,000 miles). Perform "I" (checking the mixture ratio and correcting the mixture ratio if necessary) at the middle of replacement interval.
- (2) Periodic maintenance is not required. However, if valve noise increases, check valve clearance.
- (3) Fuel filter is maintenance-free. For service procedures, refer to FE section.
- (4) Perform only according to "Maintenance Under Severe Driving Conditions" for models without Euro-OBD system. For models with Euro-OBD system, periodic maintenance is not required.
- ★ Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Petrol Engines (Annual Mileage > 30,000 km/year) (Cont'd)

CHASSIS AND BODY MAINTENANCE

		Abbre	viations:	R = Re	place	I = Insp	ect: Co	rrect or	replace	=NJMA0043S0402 if necessary
MAINTENANCE OPERATION				Refer-						
Perform on a kilometer basis only.	km x 1,000 (miles x 1,000)	15 (9)	30 (18)	45 (27)	60 (36)	75 (45)	90 (54)	105 (63)	120 (72)	ence pages
	Underh	ood an	d under	vehicle	;	•			•	
Headlamp aiming			1		ı		I		1	EL-42
Wheel alignment (if necessary, balance & rotate wheels)			1		I		I		I	SU-6/ SU-18
Brake pads, rotors & other brake components★			I		I		I		I	BR-27 BR-28
Foot brake, parking brake & clutch (for free play, stroke & operation)			ı		I		I		ı	BR-12/ BR-48/ CL-0
Brake booster vacuum hoses, connections, check valve					I				ı	BR-21
Brake & clutch, systems and fluid (for level and leaks)			I		I		I		ı	BR-7
Brake fluid★					R				R	BR-7
Power steering fluid and lines (for level and leaks)			ı		I		I		I	ST-7
Supplemental air bag systems	See NOTE (1)									RS-25
Ventilation air filter★			R		R		R		R	HA-102
Manual transaxle gear oil (check for leakage. Use genuine NISSAN XZ gear oil or exact equivalent)			ı		ı		I		1	MT-14 MT-15
Automatic transaxle fluid (for level and leaks)★			I		ı		ı		ı	AT-78
Steering gear and linkage, axle & suspension parts, drive shafts, exhaust system★					I				I	ST-7/ SU-6/ SU-18/ FE-11
NISSAN Mobility System	See NOTE (2)		1	I	ı	ı	ı	ı	1	_
Body corrosion	See NOTE (3)									BT-6

- (1) Inspect after 10 years, then every 2 years.
- (2) Check expiration date of the tyre sealant bottle. Replace if necessary.
- (3) Inspect once per year.
- ★ Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Diesel Engines (Annual Mileage > 30,000 km/year)

Maintenance Schedule for Diesel Engines (Annual Mileage > 30,000 km/year)

YD22DDT ENGINE

=NJMA0043S05

Abbreviations: R = Replace I = Inspect: Correct or replace if necessary

MAINTENANCE OPERATION			MAI	NTENANO	CE INTER	?VAI		
Perform on a kilometer basis only.	km x 1,000 (miles x 1,000)	20 (12)	40 (24)	60 (36)	80 (48)	100 (60)	120 (72)	Reference pages
	Engine c	ompartm	ent and u	nder veh	icle	•	•	
Engine oil (Use recommended oil)★		R	R	R	R	R	R	LC-30
Engine oil filter (Use Eco filter or equivalent)★	See NOTE (1)	R	R	R	R	R	R	LC-31
Drive belts		ı	I	I	I	I	I	EM-84
Cooling system		ı	I	I	I	I	I	LC-37
Engine anti-freeze coolant (Use genuine NISSAN Anti-Freeze Coolant (L2N) or equivalent)	See NOTE (2)		ı				I	LC-43
Air cleaner filter★				R			R	EM-87
Intake & exhaust valve clearance	See NOTE (3)							EM-132
Fuel lines				I			I	FE-16
Injection nozzles	See NOTE (4)							EC-509
Fuel filter★				R			R	FE-16

⁽¹⁾ Oil filter element assembly and O-ring seal are replacement parts.

⁽²⁾ First replace at 100,000 km (60,000 miles), then every 60,000 km (36,000 miles). After first replacement, perform "I" (checking the mixture ratio and correcting the mixture ratio if necessary) at the middle of replacement interval.

⁽³⁾ If valve noise increases, check valve clearance.

⁽⁴⁾ If engine power decreases, black exhaust smoke is emitted or engine noise increases, check injection nozzles and if necessary, replace injection nozzle assembly.

[★] Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Schedule for Diesel Engines (Annual Mileage > 30,000 km/year) (Cont'd)

CHASSIS AND BODY MAINTENANCE

Abbreviations: R = Replace I = Inspect: Correct or replace if necessary

				Abbre	viation	S. K =	керіа	ce i	= 1115	ect. C	orrect	or rep	lace II	necessar
MAINTENANCE OPERATION					N	1AINTI	ENAN	CE IN	ΓERVA	.L				Refer-
Perform on a kilometer basis only.	km x 1,000 (miles x 1,000)	10 (6)	20 (12)	30 (18)	40 (24)	50 (30)	60 (36)	70 (42)	80 (48)	90 (54)	100 (60)	110 (66)	120 (72)	ence
		Un	derho	od and	d unde	er veh	icle							
Headlamp aiming					I				ı				I	EL-42
Wheel alignment (if necessary, balance & rotate wheels)					I				ı				ı	SU-6 SU-18
Brake pads, rotors & other brake components★			ı		I		I		ı		ı		ı	BR-27 BR-28
Foot brake, parking brake & clutch (for free play, stroke & operation)			ı		ı		ı		ı		I		ı	BR-12 BR-48 CL-0
Brake booster vacuum hoses, connections, check valve							ı						ı	BR-21
Brake & clutch, systems and fluid (for level and leaks)			ı		ı		I		ı		ı		ı	BR-7
Brake fluid★							R						R	BR-7
Power steering fluid and lines (for level and leaks)			ı		ı		ı		ı		ı		ı	ST-7
Supplemental air bag systems	See NOTE (1)													RS-25
Ventilation air filter★			R		R		R		R		R		R	HA-102
Manual transaxle gear oil (check for leakage. Use genu- ine NISSAN XZ gear oil or exact equivalent)					I				I				I	MT-14 MT-15
Steering gear & linkage, axle & suspension parts, drive shafts, exhaust system★							I						1	ST-7 SU-6 SU-18 FE-27
NISSAN Mobility System	See NOTE (2)						I	I	I	I	I	ı	I	_
Body corrosion	See NOTE (3)													BT-6

- (1) Inspect after 10 years, then every 2 years.
- (2) Check expiration date of the tyre sealant bottle. Replace if necessary.
- (3) Inspect once per year.
- ★ Maintenance items with "★" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

Maintenance Under Severe Driving Conditions (Annual Driving Distance > 30,000 km/year)

Maintenance Under Severe Driving Conditions (Annual Driving Distance > 30,000 km/year)

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.

- 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 areas or in 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
- J Frequent off road use or driving in water
- K Sustained high speed driving
- L For models without Euro-OBD system

				Driv	ving (condi	ition					Maintenance item	Maintenance operation	Maintenance interval
												Engine oil & eng	gine oil filter	
Α	В	С	D									Petrol models	Replace	Every 7,500 km (4,500 miles)
												Diesel models	Replace	Every 10,000 km (6,000 miles)
												Air cleaner filter	•	
Α												Petrol models	Replace	Every 30,000 km (18,000 miles)
												Diesel models	Replace	Every 30,000 km (18,000 miles)
Α				Е								Fuel filter		
		•					•	•			-	Diesel models	Replace	Every 30,000 km (18,000 miles)
											L	Heated Oxygen	Sensor 1 (Front)	
		·	•	•	•	·		·	•	·	_	Petrol models	Inspect	Every 60,000 km (36,000 miles)
											L	Heated Oxygen	Sensor 2 (Rear)	
	•	·		·		i.	•	i.				Petrol models	Inspect	Every 60,000 km (36,000 miles)
												Ventilation air fi	lter	
Α												Petrol models	Replace	Every 15,000 km (9,000 miles)
												Diesel models	Replace	Every 10,000 km (6,000 miles)
												Brake fluid		
					F							Petrol models	Replace	Every 30,000 km (18,000 miles)
												Diesel models	Replace	Every 30,000 km (18,000 miles)
		С					Н					Automatic trans	axle fluid	
			·		·	L.		·	·	·		Petrol models	Replace	Every 60,000 km (36,000 miles)
												Brake pads, roto	ors & other brake	system components
Α		С				G	Н	ı				Petrol models	Inspect	Every 15,000 km (9,000 miles)
												Diesel models	Inspect	Every 10,000 km (6,000 miles)

Maintenance Under Severe Driving Conditions (Annual Driving Distance > 30,000 km/year) (Cont'd)

Driving condition									Maintenance item	Maintenance operation	Maintenance interval
									Steering gear & exhaust system	•	suspension parts, drive shafts,
					G	Н			Petrol models	Inspect	Every 30,000 km (18,000 miles)
									Diesel models	Inspect	Every 30,000 km (18,000 miles)

RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

	Fluid	ds and Lubricants
		Recommended fluids and lubricants
Engine oil	QG engine	 Except for Europe API SE, SF, SG, SH or SJ*1 ILSAC grade GF-I or GF-II*1 For Europe API SG, SH or SJ*1 ILSAC grade GF-I or GF-II*1 ACEA 96-A2
	YD engine	 Except for Europe API CD, CE, CF or CF-4*1, *2 For Europe API CF-4*1, *2 ACEA 98-B1
Cooling system		 Except for Europe Nissan genuine engine coolant, or equivalent in its quality*3 For Europe Genuine Nissan Anti-freeze Coolant (L2N) or equivalent*3
Manual transaxle gear oil		 Except for Europe API GL-4 Viscosity SAE 75W-90 For Europe Genuine Nissan XZ gear oil or exact equivalent.
Automatic transaxle fluid		Genuine Nissan ATF or equivalent*4
Power steering fluid		Type Dexron [™] III or equivalent
Brake and clutch fluid		 Except for Europe DOT 3 (US FMVSS No. 116) For Europe DOT 3 or DOT 4 (US FMVSS No. 116)*5
Multi-purpose grease		NLGI No. 2 (Lithium soap base)

^{*1:} For further details, see "SAE Viscosity Number".

Note that any repairs for the incidents within the engine cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.

^{*2:} Never use API CG-4.

^{*3:} Use Nissan genuine engine coolant [For Europe, use Genuine Nissan Anti-freeze Coolant (L2N)] or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine cooling system caused by the use of non-genuine engine coolant.

^{*4:} Contact a Nissan dealership for more information regarding suitable fluids, including recommended brand(s) of DexronTMIII/MerconTM Automatic Transmission Fluid.

^{*5:} Never mix different types of fluids (DOT 3 and DOT 4).

RECOMMENDED FLUIDS AND LUBRICANTS

SAE Viscosity Number

Outside Temperature Range Anticipated Before Next Oil Change GASOLINE ENGINE OIL OF HOD TOP MOI TOP

SAE Viscosity Number GASOLINE ENGINE

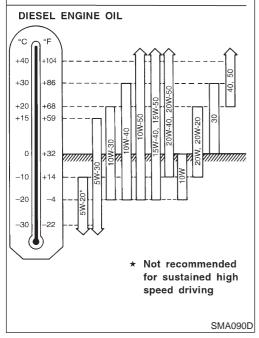
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- For warm and cold areas: 10W-30 is preferable for ambient temperature above -20°C (-4°F).
- 5W-30 will positively improve fuel economy.
- For hot areas: 20W-40 and 20W-50 are suitable.

Outside Temperature Range Anticipated Before Next Oil Change

SMA084D



DIESEL ENGINE

N.JMA0006S020

- For cold areas: 10W-30 is preferable. On turbocharger models, 5W-20 is not recommended, and 5W-30 should be used only below 0°C (32°F).
- For hot and warm areas: 20W-40 and 20W-50 are suitable.

RECOMMENDED FLUIDS AND LUBRICANTS

Engine Coolant Mixture Ratio

0	side re down to	Com	position
°C	°F	Engine coolant (Concent- rated)	Demineralized water or distilled water
-15	5	30%	70%
-35	-30	50%	50%

SMA089D

Engine Coolant Mixture Ratio

The engine cooling system is filled at the factory with a high-quality, year-round and extended life engine coolant. The high quality engine coolant contains the specific solutions effective for the anti-corrosion and the anti-freeze function. Therefore, additional cooling system additives are not necessary.

CAUTION:

For Europe

When adding or replacing coolant, be sure to use only Genuine NISSAN Anti-freeze Coolant (L2N) or equivalent. Because L2N is premixed type coolant.

Except for Europe

When adding or replacing coolant, be sure to use only a Nissan Genuine Engine Coolant or equivalent in its quality with the proper mixture ratio. See the examples shown left.

The use of other types of engine coolant may damage your cooling system.

 When checking the engine coolant mixture ratio by the coolant hydrometer, use the chart below to correct your hydrometer reading (specific gravity) according to coolant temperature.

Mixed coolant specific gravity

Unit: specific gravity

Engine coolant mixture		Coolant tempe	erature °C (°F)	
ratio	15 (59)	25 (77)	35 (95)	45 (113)
30%	1.046 - 1.050	1.042 - 1.046	1.038 - 1.042	1.033 - 1.038
50%	1.076 - 1.080	1.070 - 1.076	1.065 - 1.071	1.059 - 1.065

WARNING:

Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.