MAINTENANCE

SECTION MA

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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, kevs and locks for operation U 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) Install deodorizing filter to air conditioner (If applicable) Remove wiper blade protectors (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
- X : Not applicable to this model

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	Reference page
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-13
Tire rotation	Tires should be rotated every 10,000 km (6,000 miles).	SU-8

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-3

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	Check the coolant level when the engine is cold.	LC-19, LC-59
Engine oil level	Check the level after parking the vehicle (on level ground) and turning off the engine.	LC-8, LC-28
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.	_

Engine and Emission Control Maintenance (QG18DE/SR20DE engine)

Engine and Emission Control Maintenance (QG18DE/SR20DE 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					MAI	NTENA	NCE I		0		
	km × 1,000	1	10	20	30	40	50	60	70	80	
Perform either at number of kilometers	(mile × 1,000)	(0.6)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	Refer- ence
(miles) or months, whichever comes first.	Months		6	12	18	24	30	36	42	48	page
	Underhood	d and i	_								
Torque of manifolds & exhaust tube nuts*1		1									
Intake & exhaust valve clearance*2				A		A		A		A	EM-42
Drive Belts		I*1		I*1		1		I*1		1	EM-17, EM-86
Engine oil (Use API SE, SF, SG, SH or SJ oil.)★			R	R	R	R	R	R	R	R	LC-8, LC-28
Engine oil filter (Use Part No. 15208 65F01 or equivalent)★			R	R	R	R	R	R	R	R	LC-9, LC-28
Engine coolant (Use Nissan genuine engine coolant or equivalent in its quality.)	See NOTE (1)					E				R	LC-19, LC-59
Cooling system				I		I		I		1	LC-12, LC-32
Fuel lines						I				1	FE-5
Air cleaner filter (Viscous paper type)★						R				R	EM-18, EM-88
Fuel filter	See NOTE (2)										FE-9
Positive crankcase ventilation (PCV) system				l*1		l*1		l*1		l*1	EC-42, EC-576
Spark plugs (Conventional type)*3						R				R	EM-19, EM-89
Spark plugs (Conventional type, For leaded fuel)*1			I	R	1	R	I	R	I	R	EM-19, EM-89
Spark plugs (Conventional type, For unleaded fuel)*1			I	I	1	R	I	I	I	R	EM-19, EM-89
Spark plugs (PLATINUM TYPE)			Rep	lace ev	very 10	0,000	km (60),000 m	niles)		EM-19, EM-89
Ignition leads						I				1	EC-816
EVAP vapor lines (With carbon canister)						I				I	EC-41, EC-575
Vacuum hoses & connections*1				I		I		I		I	EC-33, EC-568
Heated oxygen sensor (Exhaust gas sensor)						I				1	EC-191, EC-717

NOTE:

Maintenance item 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 aluminium 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.

Engine and Emission Control Maintenance (QG18DE/SR20DE engine) (Cont'd)

*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

Engine Maintenance (YD22DDTi engine)

Engine Maintenance (YD22DDTi engine)

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace, A = Adjust, D = Check filter and drain water.

MAINTENANCE OPERATION	MAINTENANCE INTERVAL											
Perform either at number of kilome-	km × 1,000	1	10	20	30	40	50	60	70	80		
ters (miles) or months, whichever	(mile × 1,000)	(0.6)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	Reference	
comes first.	Months	_	6	12	18	24	30	36	42	48		
	Underho	ood an	d und	er vehi	icle	•	•					
Torque of manifolds & exhaust tube nuts		I									_	
Intake & exhaust valve clearance	See NOTE (1)										EM-214	
Drive belts		I		I		I		I		I	EM-166	
Engine oil (Use API CD, CE, CF, CF-4 oil.)★	See NOTE (5) Replace every 15,000 km (9,000 miles) or 12 months								LC-47			
Engine oil filter (Use Eco filter or equivalent)★	See NOTE (2)	Rep	place e	every 1	5,000 I	km (9,0	000 mil	es) or	12 mor	nths	LC-48	
Engine coolant (Use Nissan genuine engine coolant or equivalent in its quality.)	See NOTE (3)					E				R	LC-59	
Cooling system				I		I		I		I	LC-53	
Fuel lines						1				I	FE-15	
Air cleaner filter (Viscous paper type)★						R				R	EM-169	
Fuel filter★			D	D	D	R	D	D	D	R	FE-15	
Injection nozzles	See NOTE (4)										EC-1085	

NOTE:

Maintenance item with " \star " should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

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

(2) Oil filter element assembly (part No. 15208 AD200) and O-ring seal (part No. 15226 AD200) are replacement parts.

(3) Use Nissan genuine engine coolant 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. After first replacement, replace every 40,000 km (24, 000 miles) or 24 months.

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

(5) Never use CG-4 oil.

Chassis and Body Maintenance

		ssis			-						=NLMA0046S03		
Abbreviatio	ons: I = Inspect a	nd corr	ect or	replace	e as ne	cessai	ry, R =	Replac	ce, A =	Adjust	L = Lubricate		
MAINTENANCE OPERATION				MA	INTEN	ANCE	INTER	VAL			_		
Perform either at number of kilometers	km imes 1,000	1	10	20	30	40	50	60	70	80	Reference		
(miles) or months, whichever comes	(mile $ imes$ 1,000)	(0.6)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	page		
first.	Months	—	6	12	18	24	30	36	42	48			
Underhood and under vehicle													
Brake & clutch fluid (For level & leaks)★			I	I	I	I	I	I	I	I	BR-7		
Brake fluid★						R				R	BR-7		
Brake booster vacuum hoses, connec- tions & check valve						I				I	BR-16		
Power steering fluid & lines (For level & leaks)			l*1	I	l*1	I	l*1	I	l*1	I	ST-7		
Brake, clutch & exhaust systems			I	I	I	I	I	I	I	I	BR-7, CL-5, FE-13, FE-15, FE-23		
H·CVT fluid (For level and leaks)			I	I	I	I	I	1	I	I	AT-10		
H⋅CVT fluid★						R				R	AT-11		
Manual transaxle gear oil (For level & leaks)			l*1	I	l*1	I	l*1	I	l*1	I	MT-10, MT-11		
Steering gear & linkage, axle & sus- pension parts & drive shafts★		l*2		I		I		I		I	ST-7, SU-5, SU-18		
	Οι	utside a	and in	side				•					
Wheel alignment (if necessary, rotate & balance wheels)				I		I		1		I	SU-15, SU-27		
Brake pads, rotors & other brake components★			I	I	I	I	I	I	I	I	BR-24, BR-28		
Lock, hinges & hoods latch★			L*1	L	L*1	L	L*1	L	L*1	L	BT-7, BT-13		
Seat belts, buckles, retractors, anchors & adjuster				I		I		I		I	RS-3		
Foot brake, parking brake & clutch (For free play, stroke & operation)			l*1	I	l*1	I	l*1	I	l*1	I	BR-11, BR-40, CL-5		
Ventilation air filter★		Rep	place e	every 1	2,000	km (7,5	500 mil	es) or	12 mor	nths	HA-103		
Supplemental air bag systems	See NOTE (1)										RS-16		
NISSAN Mobility System	See NOTE (2)					1	1	1	I	I	_		

NOTE:

(1) Inspect at the first 10 years, and then every 2 years. Maintenance item with " \star " should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

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

*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

NLMA0046S0401

- 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

		C	Drivin	g cor	nditio	n			Maintenance item	ı	Maintenance operation	Maintenance interval	Refer- ence page
A	-	-			-				Air cleaner filter	ir cleaner filter Viscous paper type Replace More frequently			
A	В	С	D						Engine oil & oil fi engine)	lter (QG18DE/SR20DE	Replace	Every 5,000 km (3,000 miles) or 3 months	LC-8, LC-28, LC-9, LC-28
									Engine oil (YD22	DDTi engine)		More frequently	LC-47
A	В	С	D						Engine oil filter (/D22DDTi engine)	Replace	Every 7,500 km (4,500 miles) or 6 months	LC-48
A				E					Fuel filter (YD22	DDTi engine)	Replace	Every 20,000 km (12,000 miles) or 12 months	FE-15
					F				Brake fluid		Replace	Every 20,000 km (12,000 miles) or 12 months	BR-7
		С					н		H-CVT fluid		Replace	Every 20,000 km (12,000 miles) or 12 months	AT-11
						G	н		Steering gear & I sion parts & drive	inkage, axle & suspen- e shafts	Check	Every 10,000 km (6,000 miles) or 6 months	ST-7, SU-5, SU-18
A		С				G	н	I	Brake pads, rotor ponents	rs & other brake com-	Check	Every 5,000 km (3,000 miles) or 3 months	BR-24, BR-28
						G			Lock, hinges & h	ood latch	Lubricate	Every 5,000 km (3,000 miles) or 3 months	BT-7, BT-13
А	•	•	•	•			•	•	Ventilation air filte	er	Replace	More frequently	HA-103

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)

QG18DE/SR20DE ENGINES

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

MAINTENANCE OPERATION		I	Reference pages							
	1,000 15 s x 1,000) (9) hs 12	30 (18) 24	45 (27) 36	60 (36) 48	75 (45) 60	90 (54) 72	105 (63) 84	120 (72) 96	QG18DE	SR20DE

Engine compartment and under vehicle

		Engine com	partine		a unue	venic	le					
Engine oil (Use	recommended oil) \star		R	R	R	R	R	R	R	R	LC-8	LC-28
Engine oil filter (Use NISSAN g lent)★	enuine part or equiva-		R	R	R	R	R	R	R	R	LC-9	LC-28
Drive belts			I	I	I	I	1	I	I	I	EM-17	EM-86
Cooling system			I	I	I	I	1	I	I	I	LC-12	LC-32
Engine anti-free (Use genuine N Coolant (L2N) c	IISSAN Anti-Freeze	See NOTE (1)			I			R		I	LC-19	LC-59
Air cleaner filter★						R				R	EM-18	EM-88
Intake and exha (non HLA mode	aust valve clearance els)	See NOTE (2)									EM-42	_
Fuel and EVAP	vapour lines			I		I		I		I	FE-5/ EC-41	FE-5/ EC-575
Spark plugs	Platinum tipped type							[R]			_	EM-89
	Conventional type			R		R		R		R	EM-19	EM-89
Ignition leads					I			I			_	EC-816
PCV system	PCV system			I		I		I		I	EC-42	EC-576
Fuel filter		See NOTE (3)									FE-9	FE-9

NOTE:

(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.

(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.

 \star Maintenance items with " \star " 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

Y MAINTENANCE

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			
	Underh	nood ar	nd unde	r vehicl	e	-							
Headlamp aiming		I	1	I	I	I	I	I	I	EL-72			
Wheel alignment (if necessary, bal- ance & rotate wheels)		I	1	I	I	I	I	I	I	SU-15/ SU-27			
Brake pads, rotors & other brake components★		I	I	I	I	I	I	I	I	BR-24/ BR-28			
Foot brake, parking brake & clutch (for free play, stroke & operation)		I	1	I	I	I	I	I	I	BR-11/ BR-40/ CL-5			
Brake booster vacuum hoses, connections, check valve			I		I		I		I	BR-16			
Brake & clutch, systems and fluid (for level and leaks)		I	1	I	1	I	I	I	I	BR-7			
Brake fluid★			R		R		R		R	BR-7			
Power steering fluid and lines (for level and leaks)		I	1	I	I	I	I	I	I	ST-7			
Supplemental air bag systems	See NOTE (1)									RS-16			
Ventilation air filter★			R		R		R		R	HA-103			
Manual transaxle gear oil (check for leakage. Use genuine NISSAN XZ gear oil or exact equivalent)		I	1	I	I	I	I	I	I	MT-10 MT-11			
CVT fluid [for level and leaks or replace. Use genuine NISSAN CVT fluid (NS-1) or exact equivalent]★		I	1	I	[R]	I	I	I	[R]	AT-10			
Steering gear & linkage, axle & sus- pension parts, drive shafts, exhaust system ★			I		I		I		I	ST-7/ SU-5/ SU-18/ FE-13/ FE-15/ FE-23			
NISSAN Mobility System	See NOTE (2)		I	I	I	I	I	I	I				
Body corrosion	See NOTE (3)									BT-6			

NOTE:

(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)

=NLMA0043S02 NLMA0043S0201

		Abb	reviations	R = Rep	lace I =	Inspect: C	correct or r	eplace if neces		
MAINTENANCE OPERATION			MAINTENANCE INTERVAL							
Perform on a kilometer basis, but on an annual basis when driving less than 20,000 km (12,000 miles) per year.	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	120 (72) 72	Reference pages			
	Engine	compartm	nent and u	inder veh	icle		•			
Engine oil (Use recommended oil)★		R	R	R	R	R	R	LC-47		
Engine oil filter (Use Eco filter or equivalent)★	See NOTE (1)	R	R	R	R	R	R	LC-48		
Drive belts		I	I	I	I	I	I	EM-166		
Cooling system		I	I	I	I	I	1	LC-53		
Engine anti-freeze coolant (Use genuine NISSAN Anti-freeze Coolant (L2N) or equivalent)	See NOTE (2)		I				I	LC-59		
Air cleaner filter★				R			R	EM-169		
Intake & exhaust valve clearance	See NOTE (3)							EM-214		
Fuel lines			I		I			FE-15		
Injection nozzles	See NOTE (4)							EC-1085		
Fuel filter★			R		R		R	FE-15		

YD22DDTI ENGINE

NOTE:

(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

I = Inspect: Correct or replace if necessary Abbreviations: R = Replace MAINTENANCE INTERVAL **MAINTENANCE OPERATION** Perform on a kilometer basis, but km x 1,000 20 40 60 80 100 120 Reference pages on an annual basis when driving (36) (miles x 1,000) (24) (48) (12) (60) (72) less than 20,000 km (12,000 miles) Months 12 24 36 48 60 72 per year. Underhood and under vehicle Headlamp aiming I I EL-72 Т Т I Т Wheel alignment (if necessary, bal-SU-15 I I I I I I ance & rotate wheels) SU-27 Brake pads, rotors & other brake BR-24 I I T I I I components★ **BR-28** BR-11 Foot brake, parking brake & clutch I I I I I I **BR-40** (for free play, stroke & operation) CL-5 Brake booster vacuum hoses, BR-16 I I I connections, check valve Brake & clutch, systems and fluid BR-7 I I I I I I (for level and leaks) CL-5 Brake fluid* R R R BR-7 Power steering fluid and lines (for I I T I I I ST-7 level and leaks) Supplemental air bag systems See NOTE (1) **RS-16** Ventilation air filter* R R R R R R HA-103 Manual transaxle gear oil (check for MT-10 leakage. Use genuine NISSAN XZ I I Т I I T MT-11 gear oil or exact equivalent) ST-7 SU-5 Steering gear & linkage, axle & SU-18 suspension parts, drive shafts, I I I FE-13 exhaust system★ FE-15 **FE-23** NISSAN Mobility System See NOTE (2) Т Т L Т I ____ Body corrosion See NOTE (3) BT-6

NOTE:

(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

				Dri	ving	condi	ition				Maintenance item	Maintenance operation	Maintenance interval		
											Engine oil & eng	gine oil filter			
A	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	•		
A											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	Jel filter			
A				E					•		Diesel models	Replace	Every 20,000 km (12,000 miles) or 12 months		
											Ventilation air fi	lter			
A											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		
											Brake pads, rote	ors & other brake	system components		
A		с				G	н	1			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		

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	-	uspension 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)

QG18DE/SR20DE ENGINES

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

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		~		ations.		place	1 – 11	ispeci.	Conec			lecessary
MAINTENANCE OF	PERATION			MAINTENANCE INTERVAL							Reference pages	
Perform on a kilome	km x 1,000 (miles x 1,000)	15 (9)	30 (18)	45 (27)	60 (36)	75 (45)	90 (54)	105 (63)	120 (72)	QG 18DE	SR 20DE	
	En	gine compar	tment	and u	nder ve	ehicle	1		1			
Engine oil (Use reco		R	R	R	R	R	R	R	R	LC-8	LC-28	
Engine oil filter (Use equivalent)★		R	R	R	R	R	R	R	R	LC-9	LC-28	
Drive belts		I	I	I	I	I	Ι	I	I	EM-17	EM-86	
Cooling system			I		I		I		I	LC-12	LC-32	
Engine anti-freeze c NISSAN Anti-Freeze lent)	See NOTE (1)			I			R		I	LC-19	LC-59	
Air cleaner filter★						R				R	EM-18	EM-88
Intake & exhaust va models)	lve clearance (Non HLA	See NOTE (2)									EM-42	_
Fuel and EVAP vapo	or lines					I				I	FE-5/ EC-41	FE-5/ EC-568
Spork plugo	Platinum tipped type							R			_	EM-89
Spark plugs	Conventional type			R		R		R		R	EM-19	EM-89
Ignition leads							Ι			_	EC-816	
PCV system						R				R	EC-42	EC-576
Fuel filter		See NOTE (3)									FE-9	FE-9

NOTE:

(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.

 \star Maintenance items with " \star " 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

=NLMA0043S0402 I = Inspect: Correct or replace if necessary Abbreviations: R = Replace MAINTENANCE OPERATION MAINTENANCE INTERVAL Reference km x 1,000 15 30 45 60 75 90 105 120 Perform on a kilometer basis only. pages (miles x 1,000) (9) (18)(27)(36)(45) (54)(63)(72) Underhood and under vehicle Headlamp aiming I I L I EL-72 Wheel alignment (if necessary, bal-SU-15/ I I Т I ance & rotate wheels) SU-27 Brake pads, rotors & other brake **BR-24** L Т I T components★ **BR-28** BR-11/ Foot brake, parking brake & clutch L I I L BR-40/ (for free play, stroke & operation) CL-5 Brake booster vacuum hoses. T L **BR-16** connections, check valve Brake & clutch, systems and fluid (for BR-7/ I I I I level and leaks) CL-5 Brake fluid★ R R BR-7 Power steering fluid and lines (for I T I I ST-7 level and leaks) Supplemental air bag systems See NOTE (1) **RS-16** Ventilation air filter* HA-103 R R R R Manual transaxle gear oil (check for MT-10 leakage. Use genuine NISSAN XZ L L I L MT-11 gear oil or exact equivalent) CVT fluid [for level and leaks or replace. Use genuine NISSAN CVT [R] [R] AT-10 I I fluid (NS-1) or exact equivalent]★ ST-7/ SU-5/SU-Steering gear and linkage, axle & 18/ suspension parts, drive shafts, I Т FE-13/ exhaust system★ FE-15/ FE-23 **NISSAN Mobility System** See NOTE (2) I I I I I I I ____ Body corrosion See NOTE (3) BT-6

NOTE:

(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)

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YD22DDTI ENGINE

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

MAINTENANCE OPERATION			Abbreviations: R = Replace I = Inspect: Correct or r								
Perform on a kilometer basis only.	20 (12)	40 (24)	60 (36)	80 (48)	100 (60)	120 (72)	Reference pages				
	Engine	compartm	hent and u	inder veh	icle		I				
Engine oil (Use recommended oil)★		R	R	R	R	R	R	LC-47			
Engine oil filter (Use Eco filter or equivalent)★	See NOTE (1)	R	R	R	R	R	R	LC-48			
Drive belts		I	I	I	I	I	I	EM-166			
Cooling system		I	I	I	I	I	I	LC-53			
Engine anti-freeze coolant (Use genuine NISSAN Anti-Freeze Coolant (L2N) or equivalent)	See NOTE (2)		I				I	LC-59			
Air cleaner filter★				R			R	EM-169			
Intake & exhaust valve clearance	See NOTE (3)							EM-214			
Fuel lines				I			I	FE-15			
Injection nozzles	See NOTE (4)							EC-1085			
Fuel filter★				R			R	FE-15			

NOTE:

(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.

 \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) (Cont'd)

CHASSIS AND BODY MAINTENANCE

I = Inspect: Correct or replace if necessary Abbreviations: R = Replace **MAINTENANCE OPERATION** MAINTENANCE INTERVAL Referkm x 1,000 ence 100 110 Perform on a kilometer basis 10 20 30 40 50 60 70 80 90 120 (miles x pages (54) (24) (30) (36) (42) (48) (60)(66) only. (6) (12)(18)(72) 1,000) Underhood and under vehicle Headlamp aiming L L T EL-72 Wheel alignment (if SU-15 necessary, balance & rotate I I I SU-27 wheels) Brake pads, rotors & other BR-24 I I I I I I brake components* **BR-28** Foot brake, parking brake & BR-11 clutch (for free play, stroke & I I I I I **BR-40** Т operation) CL-5 Brake booster vacuum hoses, **BR-16** Т I connections, check valve Brake & clutch, systems and BR-7 I I I I I I fluid (for level and leaks) CL-5 Brake fluid* R R BR-7 Power steering fluid and lines I L I I T Т ST-7 (for level and leaks) See NOTE Supplemental air bag systems **RS-16** (1) Ventilation air filter* R R R R R R HA-103 Manual transaxle gear oil (check for leakage. Use genu-MT-10 I I I ine NISSAN XZ gear oil or MT-11 exact equivalent) ST-7 SU-5 Steering gear & linkage, axle SU-18 & suspension parts, drive Т T **FF-13** shafts, exhaust system★ FE-15 FE-23 See NOTE **NISSAN Mobility System** I I I I I I I (2) See NOTE Body corrosion BT-6 (3)

NOTE:

(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 o	condi	ition					Maintenance item	Maintenance operation	Maintenance interval
												Engine oil & eng	gine oil filter	
А	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		
А							Petrol models	Replace	Every 30,000 km (18,000 miles)
												Diesel models	Replace	Every 30,000 km (18,000 miles)
A				Е								Fuel filter	·	
A	•	•	•		•	•		•	•	•	• •	Diesel models	Replace	Every 30,000 km (18,000 miles)
												Ventilation air fi	lter	
А							.	.				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)
												CVT fluid		
•	•	С	•	•	•		H	·	•	•		Petrol models	Replace	Every 22,500 km (13,500 miles)
												Brake pads, rote	ors & other brake	system components
А		с				G	н	1				Petrol models	Inspect	Every 15,000 km (9,000 miles)
												Diesel models	Inspect	Every 10,000 km (6,000 miles)
												Steering gear & exhaust system		uspension 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)

NLMA0006

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RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

Fluids and Lubricants

		NLMA0006S01
		Recommended fluids and lubricants
Engine oil	QG and SR engine	 Except for Europe API 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 A1-98, A3-98
	YD engine	 Except for Europe API CD, CE, CF or CF-4*1, *2 For Europe API CF-4*1, *2 ACEA B1-98, B3-98
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
H·CVT fluid		Genuine Nissan CVT fluid (NS-1) or exact equivalent.
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)*4
Multi-purpose grease		NLGI No. 2 (Lithium soap base)

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

*2: Never use API CG-4.

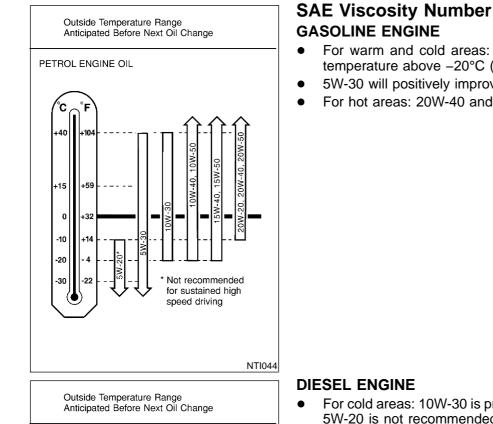
*3: Use Nissan genuine engine coolant [For Europe, Use Genuine Nissan Anti-freeze Coolant (L2N)] or equivalent in its quality, in order to avoid possible aluminium corrosion within the engine cooling system caused by the use of non-genuine engine coolant.

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.

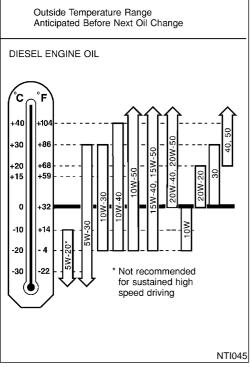
*4: Never mix different types of fluids (DOT 3 and DOT 4).

RECOMMENDED FLUIDS AND LUBRICANTS

SAE Viscosity Number



- 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. .



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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.

RECOMMENDED FLUIDS AND LUBRICANTS

Engine Coolant Mixture Ratio

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

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.

Unit: specific gravity

Engine coolant mixture	Coolant temperature °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.

Mixed coolant specific gravity