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PRECAUTIONS

PRECAUTIONS PFP:00001

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

LS000X2

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system may include seat belt switch inputs and dual stage front air bag modules. If equipped with dual stage front air bag modules, the SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

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The vehicle may be equipped with a passenger air bag deactivation switch. Because no rear seat exists where a rear-facing child restraint can be placed, the switch is designed to turn off the passenger air bag so that a rear-facing child restraint can be used in the front passenger seat. The switch is located in the center of the instrument panel, near the ashtray. When the switch is turned to the ON position, the passenger air bag is enabled and could inflate for certain types of collision. When the switch is turned to the OFF position, the passenger air bag is disabled and will not inflate. A passenger air bag OFF indicator on the instrument panel lights up when the passenger air bag is switched OFF. The driver air bag always remains enabled and is not affected by the passenger air bag deactivation switch.

WARNING:

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 To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.

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Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.

 Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.

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• The vehicle may be equipped with a passenger air bag deactivation switch which can be operated by the customer. When the passenger air bag is switched OFF, the passenger air bag is disabled and will not inflate. When the passenger air bag is switched ON, the passenger air bag is enabled and could inflate for certain types of collision. After SRS maintenance or repair, make sure the passenger air bag deactivation switch is in the same position (ON or OFF) as when the vehicle arrived for service.

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PREPARATION

PREPARATION PFP:00002

Special Service Tools

ELS000X3

The actual shapes of Kent-Moore tools may differ from those of special service tools il	lustrated here.

Tool number (Kent-Moore No.) Tool name		Description
KV10115801 (J-38956) Oil filter cap wrench	a de la constant de l	Removing and installing oil filter a: 64.3 mm (2.531 in)
	NT375	

Commercial Service Tool

ELS000X4

Tool name (Kent-Moore No.)		Description
Belt tension gauge (BT-3373-F)	AMA126	Checking drive belt tension
Coolant refill tool (J-45695)	LMA053	Filling cooling system

GENERAL MAINTENANCE

GENERAL MAINTENANCE

PFP:00000

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 checks and inspections themselves or have their NISSAN dealers do them.

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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 at least once a month and always prior to a long distance trip. Adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.	_
Wheel nuts	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	MA-41, "Tire Rotation"
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	
Tire rotation	Tires should be rotated every 12,000 km (7,500 miles).	MA-41, "Tire Rotation"
Wheel alignment and balance	If the vehicle pulls 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.	MA-41, "Balancing Wheels", FSU-10, "Front Wheel Alignment"
Windshield wiper blades	Check for cracks or wear if they do not wipe properly.	_
Doors and engine hood	Check that all doors and the engine hood operate smoothly as well as the trunk lid and back 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-45, "Lubricating Locks, Hinges and Hood Latches"
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. Clean the headlamps on a regular basis.	LT-8, "Aiming Adjust- ment" for US, LT-16, "Aiming Adjustment" for Canada

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
Warning lamps and buzzers/chimes	Make sure that all warning lamps and buzzers/chimes are operating properly.	LT-28, "Trouble Diag- noses"
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	_
Windshield defroster	Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	_
Steering wheel	Check that it has the specified play. Be sure to check for changes in the steering condition, such as excessive play, hard steering or strange noises.	PS-6, "Checking Steer- ing Wheel Play"
Seats	Check seat position controls such as seat adjusters, seatback recliner, etc. to make sure they operate smoothly and that all latches lock securely in every position. Check that the head restraints move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks.	_
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.	MA-46, "Checking Seat Belts, Buckles, Retrac- tors, Anchors and Adjusters", SB-8, "Seat Belt Inspection"
Accelerator pedal	Check that pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	ACC-2, "Adjusting Accelerator Wire"

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GENERAL MAINTENANCE

Item		Reference page
Clutch pedal	Make sure the pedal operates smoothly and check that it has the proper free play.	CL-6, "CLUTCH PEDAL INSPECTION AND ADJUSTMENT"
Brakes	Check that the brake does not pull the vehicle to one side when applied.	_
Brake pedal and booster	Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep floor mats away from the pedal.	BR-7, "Inspection", BR-18, "On-vehicle Service"
Parking brake	Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	PB-2, "PARKING BRAKE CONTROL"
Automatic transmission "Park" mechanism	Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the selector lever in the P position without applying any brakes.	_

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).

		Referer	nce page
Item		KA24DE	VG33E and VG33ER
Windshield washer fluid	Check that there is adequate fluid in the tank.	-	_
Engine coolant level	Check the coolant level when the engine is cold.	<u>CO-8</u>	<u>CO-23</u>
Radiator and hoses	Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.	-	_
Brake and clutch fluid levels	Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoirs	MA-41	, <u>MA-36</u>
Battery	Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	-	_
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	MA-15	MA-24
Engine oil level	Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-20	MA-30
Power steering fluid level and lines	Check the level on the reservoir with the engine off. Check the lines for improper attachment, leaks, cracks, etc.	MA	N-43
Automatic transmis- sion fluid level	Check the level on the dipstick after putting the selector lever in "P" with the engine idling.	MA	N-37
Exhaust system	Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the trouble and correct it.	<u>M</u>	4-3 <u>6</u>
Underbody	The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt can easily accumulate.	-	_
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 gasoline fumes are evident, check for the cause and correct it immediately.	-	_

PERIODIC MAINTENANCE

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Periodic Maintenance

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Two different maintenance schedules are provided, and should be used, depending upon the conditions in which the vehicle is mainly operated. After 60,000 miles (96,000 km) or 48 months, continue the periodic maintenance at the same mileage/time intervals.

	Follow Periodic Maintenance Schedule 1 if your driving habits frequently includes one or more of the following driving conditions:	Emission Control System Maintenance	<u>MA-7</u>	С
	Repeated short trips of less than 5 miles (8 km).	Chassis and Body	MA-9	
	 Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing. 	Maintenance		D
Schedule 1	Operating in hot weather in stop-and-go "rush hour" traffic.			D
	 Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use. 			_
	Driving in dusty conditions.			
	Driving on rough, muddy, or salt spread roads.			
	Towing a trailer, using a camper or a car-top carrier.			_
Schedule 2	Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to the driving habits.	Emission Control System Maintenance	<u>MA-10</u>	Г
Scriedule 2		Chassis and Body Maintenance	<u>MA-11</u>	G

Maintenance for off-road driving (4X4 only)

Whenever you drive off-road through sand, mud or water, more frequent maintenance may be required of the following items:

- ▲ Brake pads and rotors
- ▲ Brake lining and drums
- ▲ Brake lines and hoses
- ▲ Wheel bearing grease and free-running hub grease
- ▲ Differential, transmission and transfer oil
- ▲ Steering linkage
- ▲ Propeller shaft and drive shafts
- ▲ Air cleaner filter
- ▲ Clutch housing. Refer to MA-37, "Checking Water Entry For 4X4 Models With M/T".

SCHEDULE 1

Emission Control System Maintenance

Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary. []: At the mileage intervals only

MAINTENANCE OPERATION			MAINTENANCE INTERVAL								Reference Section	
Perform at number of miles, kilome-	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	(age or ent Title	
ters or months, whichever comes first.	(km x 1,000) Months	(6)	6	(18) 9	12	(30) 15	(36) 18	(42) 21	(48)	KA24DE	VG33E and VG33ER	
Drive belts									l*	MA-15	MA-24	
Air cleaner filter	NOTE (1)								[R]	MA-20	MA-30	
Positive crankcase ventilation (PCV) filter	NOTE (2)								[R]	MA-23	_	
EVAP vapor lines									*	MA-23	MA-35	
Fuel lines									*	MA-18	MA-28	
Fuel filter*	NOTE (2)									MA-18	MA-28	
Engine coolant	NOTE (3)									MA-16	MA-26	
Engine oil		R	R	R	R	R	R	R	R	MA-20	<u>MA-30</u>	

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MAINTENANCE OPERATION	MAINTENANCE INTERVAL								Reference Section		
Perform at number of miles, kilome-	Miles x 1,000	3.75	7.5	11.25	15 18.75		22.5	26.25	30	C	age or ent Title
ters or months, whichever comes first.	(km x 1,000) Months	(6) 3	6	(18) 9	(24) 12	(30) 15	(36) 18	(42) 21	(48) 24		VG33E and VG33ER
Engine oil filter (use part No. 15208 31U00, 15208 9E000, 15208 7B000 or equivalent for VG engine.)		R	R	R	R	R	R	R	R	<u>MA-21</u>	<u>MA-31</u>
Spark plugs (double PLATINUM- TIPPED type)			Replace every 105,000 miles (169,000 km)				MA-22	MA-32			
Timing belt		Replace every 105,000 miles (169,000 km)					_	EM-91			
Intake and Exhaust valve clearance ★	NOTE (4)									<u>EM-43</u>	_

MAINTENANCE OPERATION				MAINT	ENAN	CE INTE	RVAL			Reference Section - Page	
Perform at number of miles, kilometers	Miles x 1,000	33.75	37.5	41.25	45	48.75	52.5	56.25	60	c	age or ent Title
or months, whichever comes first.	(km x 1,000) Months	(54) 27	(60) 30	(66) 33	(72) 36	(78) 39	(84) 42	(90) 45	(96) 48	KA24DE	VG33E and VG33ER
Drive belts									 *	MA-15	MA-24
Air cleaner filter	NOTE (1)								[R]	MA-20	MA-30
Positive crankcase ventilation (PCV) filter	NOTE (2)								[R]	MA-23	_
EVAP vapor lines									l*	MA-23	MA-35
Fuel lines									 *	MA-18	MA-28
Fuel filter*	NOTE (2)									<u>MA-18</u>	MA-28
Engine coolant	NOTE (3)								R*	<u>MA-16</u>	MA-26
Engine oil		R	R	R	R	R	R	R	R	MA-20	MA-30
Engine oil filter (use part No. 15208 31U00, 15208 9E000, 15208 7B000 or equivalent for VG engine.)		R	R	R	R	R	R	R	R	MA-21	MA-31
Spark plugs (double PLATINUM- TIPPED type)										MA-22	MA-32
Timing belt										_	<u>EM-91</u>
Intake and Exhaust valve clearance ★	NOTE (4)									EM-43	_

NOTE:

- (1) If operating mainly in dusty conditions, more frequent maintenance may be required.
- (2) When the filter becomes clogged, the vehicle speed cannot be increased as the driver wishes. In such an event, replace the filter
- (3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (4) If valve noises increases, inspect valve clearance.

★ Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

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MAINTENAN	CE OPERATION				MAIN	ITENAI	NCE INT	ERVAL			Reference
Perform at number of miles, months, whichever comes fi		Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.5 (12) 6	11.25 (18) 9	15 (24) 12	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	Section - Page or - Content Title
Brake lines & cables						I				_	MA-41
Brake pads, rotors, drums &	linings			I		I		I		-	MA-42, MA-42
Automatic transmission fluid		NOTE (1)				I				-	MA-37
Transfer fluid & differential gear oil (exc. LSD)		NOTE (1)				I				_	MA-38, MA-39
LSD gear oil		NOTE (2)				I				R	MA-40
Manual transmission gear of	il	NOTE (1)				I				I	MA-36
Steering gear, linkage, axle	& suspension parts			I		I		I		I	MA-43
Tire Rotation		NOTE (3)									MA-41
Drive shaft boots and prope	ler shaft (4X4)			I		I		I		I	MA-39
Propeller shaft (4X4)		NOTE (4)		L		L		L		L	MA-39
Front wheel bearing grease	4x2									_	MA-44
Front wheel bearing grease and free-running hub grease	4x4	NOTE (5)				I				R	<u>MA-44</u>
Exhaust system				I		I		I		I	MA-36
In-cabin microfilter						R				R	MTC-62

MAINTENANO	E OPERATION				MAINT	ENANC	CE INTE	RVAL			Reference
Perform at number of miles, months, whichever comes fi		Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Section - Page or - Content Title
Brake lines & cables						I				I	MA-41
Brake pads, rotors, drums &			I		I		I		I	MA-42, MA- 42	
Automatic transmission fluid		NOTE (1)				I				I	<u>MA-37</u>
Transfer fluid & differential gear oil (exc. LSD)		NOTE (1)				I				I	MA-38, MA- 39
LSD gear oil		NOTE (2)				I				R	<u>MA-40</u>
Manual transmission gear o	il	NOTE (1)				I				I	<u>MA-36</u>
Steering gear, linkage, axle	& suspension parts			I		I		I		I	MA-43
Tire Rotation		NOTE (3)									MA-41
Drive shaft boots and propeller shaft (4x4)				I		I		I		I	MA-39
Propeller shaft (4x4)		NOTE (4)		L		L		L		L	MA-39
Front wheel bearing grease	4x2									I	MA-44

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MAINTENANG	CE OPERATION		MAINTENANCE INTERVAL								Reference
Perform at number of miles, months, whichever comes fi		Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Section - Page or - Content Title
Front wheel bearing grease and free-running hub grease	4x4	NOTE (5)				I				R	MA-44
Exhaust system				I		I		I		I	MA-36
In-cabin microfilter						R				R	MTC-62

NOTE:

- (1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months.
- (2) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months, and change LSD gear oil every 15,000 miles (24,000 km) or 12 months.
- (3) Refer to "Tire rotation" under the "General maintenance" heading earlier in this section.
- (4) The propeller shaft should be re-greased after being immersed in water.
- (5) If operating frequently in water, replace grease every 3,750 miles (6,000 km) or 3 months.

SCHEDULE 2

Emission Control System Maintenance

Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary. []: At the mileage intervals only

MAINTENANCE OPE	RATION			MAIN	TENAN	CE INTE	ERVAL			Reference Section	
Perform at number of miles,	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60	C	age or ent Title
kilometers or months, which- ever comes first.	(km x 1,000) Months	(12) 6	(24) 12	(36) 18	(48) 24	(60)	(72) 36	(84) 42	(96) 48	KA24DE	VG33E and VG33ER
Drive belts					 *				*	MA-15	MA-24
Air cleaner filter					[R]				[R]	MA-20	MA-30
Positive crankcase ventilation (PCV) filter	NOTE (1)				[R]				[R]	MA-23	_
EVAP vapor lines					l*				I *	MA-23	MA-35
Fuel lines					I *				I *	MA-18	MA-28
Fuel filter*	NOTE (1)									MA-18	MA-28
Engine coolant	NOTE (2)								R*	MA-16	MA-26
Engine oil		R	R	R	R	R	R	R	R	MA-20	MA-30
Engine oil filter (use part No. 15208 31U00, 15208 9E000, 15208 7B000, or equivalent for VG engine.)		R	R	R	R	R	R	R	R	MA-21	MA-31
Spark plugs (double PLATI- NUM-TIPPED type)		Replace every 105,000 miles (169,000 km)						MA-22	MA-32		
Timing belt		Replace every 105,000 miles (169,000 km)							_	EM-91	
Intake and Exhaust valve clearance ★	NOTE (3)									EM-43	_

NOTE:

- (1) When the filter becomes clogged, the vehicle speed cannot be increased as the driver wishes. In such an event, replace the filter.
- (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (3) If valve noises increase, inspect valve clearance.

★ Maintenance items and intervals with "*" are recommended by NISSAN for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

Chassis and Body Maintenance

Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary. L = Lubricate. []: At the mileage interval only.

MAINTENANCE OPERA	ΓΙΟΝ			MAIN	TENAN	CE INTI	ERVAL			Reference
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	7.5 (12) 6	15 (24) 12	22.5 (36) 18	30 (48) 24	37.5 (60) 30	45 (72) 36	52.5 (84) 42	60 (96) 48	Section - Page or - Content Title
Brake lines & cables			I		I		I		I	MA-41
Brake pads, rotors, drums & linings			I		I		I		I	MA-42, MA- 42
Automatic transmission fluid			I		I		ı		I	MA-37
Transfer fluid & differential gear oil (exc. LSD)			I		I		I		I	MA-38, MA- 39
LSD gear oil			I		R		I		R	MA-40
Manual transmission gear oil			I		I		I		I	MA-36
Steering gear, linkage, axle & suspension parts.					I				I	MA-43
Tire rotation	NOTE (1)									MA-41
Drive shaft boots and propeller shaft (4X4)			I		I		I		I	MA-39
Propeller shaft (4X4)	NOTE (2)		L		L		L		L	MA-39
Front wheel bearing grease (4x2)					Į				I	MA-44
Front wheel bearing grease and free- running hub grease (4X4)			I		R		I		R	MA-44
Exhaust system					I				I	MA-36
In-cabin microfilter			R		R		R		R	MTC-62

NOTE:

- (1) Refer to "Tire rotation" under the "General maintenance" heading earlier in this section.
- (2) The propeller shaft should be re-greased after being immersed in water.

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RECOMMENDED FLUIDS AND LUBRICANTS

RECOMMENDED FLUIDS AND LUBRICANTS

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Recommended Fluids and Lubricants FLUIDS AND LUBRICANTS

KA24DE

Description	nn.		Cap	oacity (Approxima	ate)	Recommended Fluids and Lubricants
Description	л		US measure	Imp measure	Liter	Recommended Fidids and Eublicants
		With oil filter	3 3/4 qt	3 1/8 qt	3.5	API Certification Mark*1
Engine oil	Drain and Refill	Without oil filter	3 1/2 qt	2 7/8 qt	3.3	 API grade SG/SH, Energy Con- serving I & II or API grade SJ or SL, Energy Conserving*1
	Dry engine (engir	ne overhaul)	4 1/2 qt	3 3/4 qt	4.1	• ILSAC grade GF-I, GF-II & GF-III*1
Cooling s	ystem (without res-	MT	6 7/8 qt	5 3/4 qt	6.5	
ervoir)		AT	6 5/8 qt	5 1/2 qt	6.3	Genuine NISSAN Long Life Anti- freeze coolant or equivalent
Cooling s	ystem reservoir	MT and AT	7/8 qt	3/4 qt	0.8	
Manual tra	ansmission fluid (M	TF)	4 1/4 pt	3 1/2 pt	2.0	Genuine NISSAN Manual Transmission Fluid (MTF) 75W-85
Differentia	Differential carrier gear oil		2 3/8 pt	2 1/4 pt	1.3	Standard differential gear: API GL-5 Viscosity SAE 80W-90*3 Limited-slip differential (LSD) gear: Use only LSD gear oil API GL-5 Viscosity SAE 80W-90*3 approved for NISSAN LSD*4.
Automatic	c transmission fluid ((ATF)	8 3/8 qt	7 qt	7.9	Genuine NISSAN Matic "D" ATF (Continental U.S. and Alaska) or Can- ada NISSAN Automatic Transmis- sion Fluid *5
Power ste	eering fluid (PSF)		1 7/8 - 2 1/8 pt	1 5/8 - 1 3/4 pt	0.9 - 1.0	Genuine NISSAN PSF or equiva- lent*6
Brake and	Brake and clutch fluid		_	_	_	Genuine NISSAN Super Heavy Duty Brake Fluid*2 or equivalent DOT 3 (US FMVSS No. 116)
Multi-purp	Multi-purpose grease		_	_	_	NLGI No. 2 (Lithium soap base)
Windshield washer fluid		_	_	_	Genuine NISSAN Windshield Washer Concentrate Cleaner & Anti-freeze	
Air condit	ioner system refrige	rant	1.32 - 1.54 lb	1.32 - 1.54 lb	0.60 - 0.70 kg	HFC 134a (R-134a)*7
Air condit	Air conditioner system lubricant		6.8 fl oz	7.0 fl oz	200 m ℓ	Genuine NISSAN A/C System Lubricant Type R or equivalent*7

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

^{*2:} Available in mainland U.S.A. through your NISSAN dealer.

^{*3:} For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 0°C (32°F).

^{*4:} Contact a NISSAN dealer for a list of approved oils.

^{*5:} DEXRONTM III, MERCONTM or equivalent may also be used. Outside the Continental United States and Alaska contact a NISSAN dealership for more information regarding suitable fluids, including recommended brand(s) of DEXRONTM III, MERCONTM Automatic Transmission Fluid.

^{*6:} Genuine NISSAN PSF, Canada NISSAN Automatic Transmission Fluid (ATF), DEXRONTM III, MERCONTM , or equivalent ATF may also be used.

^{*7:} For further details, see "Air conditioner specification label."

RECOMMENDED FLUIDS AND LUBRICANTS

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5			Сар	acity (Approxima	ate)	
Description			US measure	Imp measure	Liter	Recommended Fluids and Lubricants
	Drain and	With oil filter	3 1/2 qt	2 7/8 qt	3.3	API Certification Mark*1
Engine oil	refill	Without oil filter	3 1/8 qt	2 5/8 qt	3.0	 API grade SG/SH, Energy Conserving I & II or API grade SJ or SL,
	Dry engine (en haul)	ngine over-	4 qt	3 3/8 qt	3.8	Energy Conserving*1 • ILSAC grade GF-I, GF-II & GF-III*1
Cooling syste	m (without rese	rvoir)	10 3/4 qt	8 7/8 qt	10.15	Genuine NISSAN Long Life Anti-
Cooling syste	m reservoir		7/8 qt	3/4 qt	0.8	freeze coolant or equivalent
Manual trans	mission fluid	4X2	5 7/8 pt	4 7/8 pt	2.8	Genuine NISSAN Manual Transmis-
(MTF)		4X4	10 3/4 pt	9 pt	5.1	sion Fluid (MTF) 75W-85
Transfer fluid	(TX10A)		2 3/8 qt	2 qt	2.2	Genuine NISSAN Matic "D" ATF (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid*2
		Front (4X4) R200A	3 3/4 pt	3 1/8 pt	1.75	Standard differential gear: API GL-5 Viscosity SAE 80W-90*4
Differential ca	rrier gear oil	Rear H233B	5 7/8 pt	4-7/8 pt	2.8	Limited-slip differential (LSD) gear: Use only LSD gear oil API GL-5 Viscosity SAE 80W-90*4 approved for NISSAN LSD*5.
		4X2	8 3/4 qt	7 1/4 qt	8.3	Genuine NISSAN Matic "D" ATF (Con-
Automatic tra (ATF)	nsmission fluid	4X4	9 qt	7 1/2 qt	8.5	tinental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid *2
Power steering	ng fluid (PSF)		2 1/8 - 2 3/8 pt	1 3/4 - 2 pt	1.0 - 1.1	Genuine NISSAN PSF or equivalent*6
Brake and clu	itch fluid		_	_	_	Genuine NISSAN Super Heavy Duty Brake Fluid*3 or equivalent DOT 3 (US FMVSS No. 116)
Propeller sha	ft grease		_	_	_	NLGI No. 2 (Molybdenum disulphide lithium soap base)
Multi-purpose	grease		_	_	_	NLGI No. 2 (Lithium soap base)
Free-running	Free-running hub grease (Auto-lock)		_	_	_	Genuine NISSAN grease or equivalen
Windshield washer fluid			_	_	_	Genuine NISSAN Windshield Washer Concentrate Cleaner & Anti-freeze
Air conditione	er system refrige	rant	1.32 - 1.54 lb	1.32 - 1.54 lb	0.60 - 0.70 kg	HFC 134a (R-134a)*7
Air conditione	er system lubrica	ınt	6.8 fl oz	7.0 fl oz	200 m ℓ	Genuine NISSAN A/C System Lubricant Type R or equivalent*7

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

^{*2:} DEXRONTM III, MERCONTM or equivalent may also be used. Outside the continental United States and Alaska contact a NISSAN dealership for more information regarding suitable fluids, including recommended brand(s) of DEXRONTM III, MERCONTM Automatic Transmission Fluid.

^{*3:} Available in mainland U.S.A. through your NISSAN dealer.

^{*4:} For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 0°C (32°F).

^{*5:} Contact a NISSAN dealer for a list of approved oils.

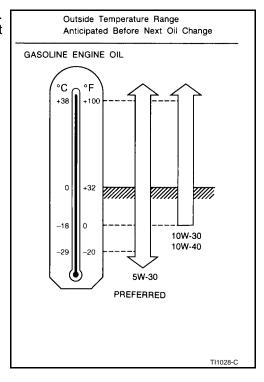
^{*6:} Genuine NISSAN PSF, Canada NISSAN Automatic Transmission Fluid (ATF), DEXRONTM III, MERCONTM, or equivalent ATF may also be used

^{*7:} For further details, see "Air conditioner specification label."

RECOMMENDED FLUIDS AND LUBRICANTS

SAE VISCOSITY NUMBER Gasoline Engine Oil

SAE 5W-30 viscosity oil is preferred for all ambient temperatures. SAE 10W-30 and 10W-40 viscosity oil may be used if the ambient temperature is above -18° C (0°F).



ANTI-FREEZE COOLANT MIXTURE RATIO

The engine cooling system is filled at the factory with a high-quality, year-round, long life, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors. Therefore, additional cooling system additives are not necessary.

CAUTION:

• When adding or replacing coolant, be sure to use only a Genuine NISSAN Long Life Anti-freeze coolant or equivalent with the proper mixture.

Outside tempe	Outside temperature down to		Demineralized water or distilled water	
°C	°F			
-35	-30	50%	50%	

Other types of coolant solutions may damage the engine cooling system.

ENGINE MAINTENANCE (KA24DE)

PFP:00100

Checking Drive Belts

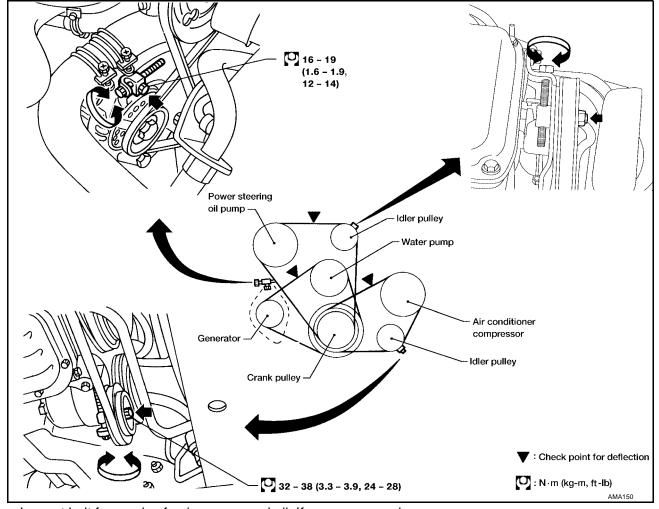
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- 1. Inspect belt for cracks, fraying, wear and oil. If necessary, replace.
- 2. Inspect drive belt deflection or tension at a point on the belt midway between pulleys using Tool.

Tool number : BT-3373-F

NOTE:

- Inspect drive belt deflection or tension when engine is cold.
- Adjust if belt deflections exceed the limit or if belt tension is not within specifications.
- Drive belt tension can be checked at other points on the belt.

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DRIVE BELT DEFLECTION AND TENSION

	Deflec	tion adjustment Ur	nit: mm (in)	Tension	n adjustment *1 Ur	Unit: N (kg, lb)	
	Us	sed belt	New belt	Uso	ed belt	New belt	
	Limit	After adjustment	New Delt	Limit	After adjustment	New Delt	
Generator	17 (0.67)	10 - 12 (0.39 - 0.47)	8 - 10 (0.31 - 0.39)	222.4 (22.7, 50)	355.8 - 444.8 (36.3 - 45.4, 80 - 100)	489.3 - 578.2 (49.9 - 59.0, 110 - 130)	
Air conditioner compressor	16 (0.63)	10 - 12 (0.39 - 0.47)	8 - 10 (0.31 - 0.39)	200.2 (20.4, 45)	355.8 - 444.8 (36.3 - 45.4, 80 - 100)	489.3 - 578.2 (49.9 - 59.0, 110 - 130)	
Power steering oil pump	17 (0.67)	10 - 13 (0.39 - 0.51)	8 - 10 (0.31 - 0.39)	222.4 (22.7, 50)	355.8 - 444.8 (36.3 - 45.4, 80 - 100)	489.3 - 578.2 (49.9 - 59.0, 110 - 130)	
Applied pushing force	98 N (10 kg, 22 lb)				_		

^{*1:} If belt tension gauge cannot be installed at check point shown, check belt tension at a different location on the belt.

Changing Engine Coolant

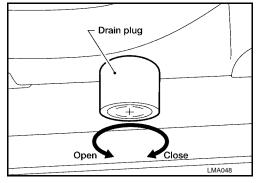
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WARNING:

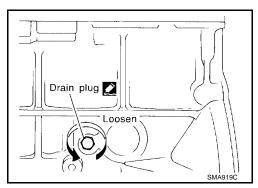
- To avoid being scalded, never change the coolant when the engine is hot.
- Wrap a thick cloth around cap and carefully remove the cap. First, turn the cap a quarter of a turn
 to release built-up pressure. Then push down and turn the cap all the way to remove.

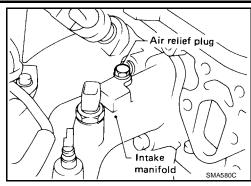
DRAINING ENGINE COOLANT

- 1. Turn ignition switch ON and set temperature control lever all the way to HOT position or the highest temperature position. Wait 10 seconds and turn ignition switch OFF.
- 2. Open the radiator drain plug at the bottom of the radiator, and remove the radiator filler cap. This is the only step required when partially draining the cooling system (radiator only).
 - Do not to allow the coolant to contact the drive belts.



 When draining all of the coolant in the system for engine removal or repair, remove cylinder block drain plug and air relief plug.





Check the drained coolant for contaminants such as rust, corrosion or discoloration.
 If the coolant is contaminated, flush the engine cooling system. Refer to MA-18, "FLUSHING COOLING SYSTEM".

REFILLING ENGINE COOLANT

- 1. Install the radiator drain plug. Install the reservoir tank and cylinder block drain plug, if removed for a total system drain or for engine removal or repair.
 - The radiator must be completely empty of coolant and water.
 - Apply sealant to the threads of the cylinder block drain plugs. Use Genuine High Performance Thread Sealant or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS".

 Radiator drain plug
 : 7.8 - 11.8 N·m (0.8 - 1.2 kg-m , 69 - 104 in-lb)

 Cylinder block drain plug
 : 34 - 44 N·m (3.5 - 4.5 kg-m, 25 - 33 ft-lb)

 Air relief plug
 : 7 - 8 N·m (0.7 - 0.8 kg-m, 61 - 69 in-lb)

- 2. If disconnected, reattach the upper radiator hose at the engine side.
- 3. Set the vehicle heater controls to the full HOT and heater ON position. Turn the vehicle ignition ON with the engine OFF as necessary to activate the heater mode.
- Install the Tool by installing the radiator cap adapter onto the radiator neck opening. Then attach the gauge body assembly with the refill tube and the venturi assembly to the radiator cap adapter.
- Insert the refill hose into the coolant mixture container that is placed at floor level. Make sure the ball valve is in the closed position.
 - Use Genuine NISSAN Long Life Anti-freeze coolant or equivalent, mixed 50/50 with distilled water or demineralized water.
 Refer to MA-14, "ANTI-FREEZE COOLANT MIXTURE RATIO".

Engine coolant capacity (without reservoir tank)

MT : 6.5 ℓ (6 7/8 US qt, 5 3/4 Imp qt)
AT : 6.3 ℓ (6 5/8 US qt, 5 1/2 Imp qt)
Reservoir tank : 0.8 ℓ (7/8 US qt, 3/4 Imp qt)

6. Install an air hose to the venturi assembly; the air pressure must be within specification.

Compressed air : 5.7 - 8.5 kPa (5.6 - 8.4 kg/cm², supply pressure 80 - 120 psi)

Gauge body assembly (part of J-45695) Gauge body assembly (part of J-45695) Refill hose (part of J-45695) Radiator cap adapter (part of J-45695) Radiator

CAUTION:

The compressed air supply must be equipped with an air dryer.

7. The vacuum gauge will begin to rise and there will be an audible hissing noise. During this process open the ball valve on the refill hose slightly. Coolant will be visible rising in the refill hose. Once the refill hose is full of coolant, close the ball valve. This will purge any air trapped in the refill hose.

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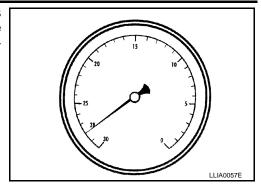
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Continue to draw the vacuum until the gauge reaches 28 inches
of vacuum. The gauge may not reach 28 inches in high altitude
locations; refer to the vacuum specifications based on the altitude above sea level.

Altitude above sea level Vacuum gauge reading
0 - 100 m (328 ft) : 28 inches of vacuum
300 m (984 ft) : 27 inches of vacuum
500 m (1,641 ft) : 26 inches of vacuum
1,000 m (3,281 ft) : 24 - 25 inches of vacuum



- 9. When the vacuum gauge has reached the specified amount, disconnect the air hose and wait 20 seconds to see if the system loses any vacuum. If the vacuum level drops, perform any necessary repairs to the system and repeat steps 6 8 to bring the vacuum to the specified amount. Recheck for any leaks.
- 10. Place the coolant container (with the refill hose inserted) at the same level as the top of the radiator. Then open the ball valve on the refill hose so the coolant will be drawn up to fill the cooling system. The cooling system is full when the vacuum gauge reads zero.

CAUTION:

Do not allow the coolant container to get too low when filling, to avoid air from being drawn into the cooling system.

- 11. Remove the Tool from the radiator neck opening.
- 12. Fill the cooling system reservoir tank to the specified level. Run the engine to warm up the cooling system and top up the system as necessary before installing the radiator cap.

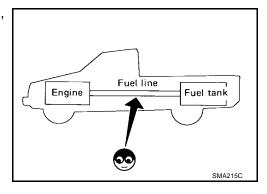
FLUSHING COOLING SYSTEM

- 1. Fill the radiator from the filler cap above the radiator upper hose and reservoir tank, with water and reinstall the filler cap above the radiator upper hose.
- 2. Run the engine until it reaches normal operating temperature.
- 3. Press the engine accelerator two or three times under no-load.
- 4. Stop the engine and wait until it cools down.
- 5. Drain the water.
- 6. Repeat steps 1 through 5 until clear water begins to drain from the radiator.

Checking Fuel Lines

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Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, chafing and deterioration. If necessary, repair or replace.



Changing Fuel Filter

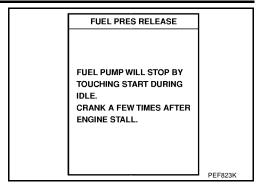
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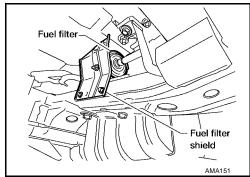
Before removing fuel filter, release fuel pressure from fuel line.

- (P) WITH CONSULT II
- 1. Start engine.

Perform "FUEL PRESSURE RELEASE" in "WORK SUPPORT" mode to release fuel pressure to zero.



- 3. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- 4. Turn ignition switch "OFF".
- 5. Remove the fuel filter shield.
- 6. Loosen fuel hose clamps.
- 7. Replace fuel filter.
 - Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.



8. Tighten fuel hose clamps.

Fuel hose clamps : 1.0 - 1.5 N·m (0.1 - 0.15 kg-m, 8.7 - 13.0 in-lb)

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

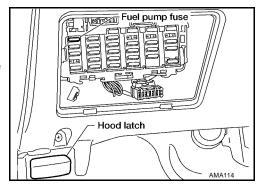
Tightening torque specifications are the same for all rubber hose clamps.

Ensure that the screw does not contact adjacent parts.

30 (1.18) Fuel hose clamps 1.0 - 1.5 N·m (0.10 - 0.15 kg-m, 8.7 - 13.0 in-lb)

WITHOUT CONSULT - II

- Remove fuel pump fuse.
 For correct fuse location, refer to label on fuse block cover.
- 2. Start engine.
- 3. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- 4. Turn ignition switch "OFF" and install fuel pump fuse.



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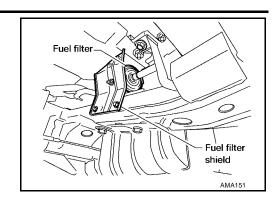
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Remove the fuel filter shield.



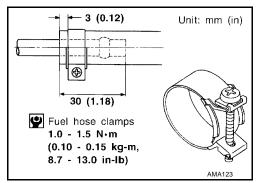
- 6. Loosen fuel hose clamps.
- 7. Replace fuel filter.
 - Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.
- 8. Tighten fuel hose clamps.

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber hose clamps.

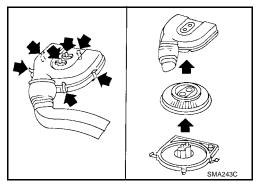
Ensure that the screw does not contact adjacent parts.



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Changing Air Cleaner Filter

The viscous paper type filter does not need cleaning between renewals.



Changing Engine Oil

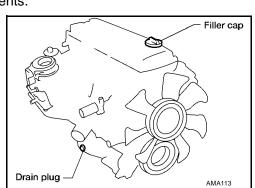
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WARNING:

- Be careful not to burn yourself, as the engine oil is hot.
- Prolonged and repeated contact with used engine oil may cause skin cancer; try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. Warm up engine, and check for oil leakage from engine components.
- 2. Remove drain plug and oil filler cap.
- 3. Drain oil and refill with new engine oil.

Oil Specification and Viscosity

- API Certification Mark
- API grade SG/SH, Energy Conserving I & II or API grade SJ or SL, Energy Conserving.
- ILSAC grade GF-I, GF-II & GF-III
- Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRI-CANTS".



Oil Capacity (Approximately)

Unit: ℓ (US qt, Imp qt)

Drain and refill	With oil filter change	3.5 (3 3/4, 3 1/8)
Diam and felli	Without oil filter change	3.3 (3 1/2, 2 7/8)
Dry engine (engine overhaul)		4.1 (4 1/2, 3 3/4)

CAUTION:

Be sure to clean drain plug and install with new washer.

Drain plug : 29.4 - 39.2 N·m (3.0 - 4.0 kg-m, 21.69 - 28.91 ft-lb)

- The refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.
- 4. Check oil level.
- 5. Start engine and check area around drain plug and oil filter for oil leakage.
- 6. Run engine for a few minutes, then turn it off. After several minutes, check oil level.



Changing Oil Filter

1. Remove oil filter using Tool.

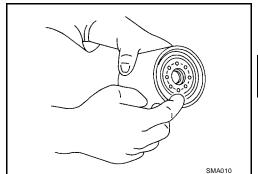
Tool number : KV10115801 (J-38956)

WARNING:

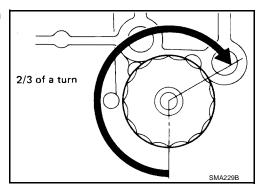
Be careful not to burn yourself. Engine and engine oil are hot.

The filter is a full-flow cartridge type and is provided with a relief valve.

2. Clean oil filter mounting surface on cylinder block. Coat rubber seal of new oil filter with engine oil.



- 3. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 of a turn.
- 4. Add engine oil. Refer to MA-20, "Changing Engine Oil".
 - Clean excess oil from engine.



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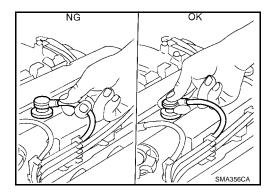
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Changing Spark Plugs

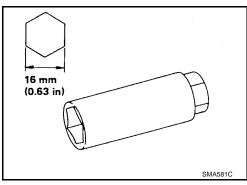
1. Disconnect ignition wires from spark plugs at boot.

CAUTION:

Do not pull on the wire.



2. Remove spark plugs with spark plug wrench.



Spark Plug

Make	NGK (double PLATINUM-TIPPED type)		
Standard type	PFR5G-11		
Cold type	PFR6G-11		

Use standard type spark plug under normal conditions.

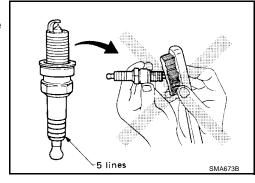
The cold type spark plug is suitable when spark knock occurs with the standard type spark plug under conditions such as:

- extended highway driving
- frequent high engine revolution
- Do not use a wire brush for cleaning.
- If plug tip is covered with carbon, spark plug cleaner may be used.

Cleaner air pressure : Less than 588 kPa (6 kg/cm²,

85 psi)

Cleaning time : Less than 20 seconds



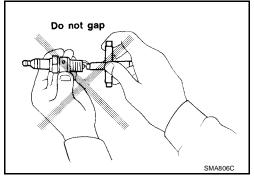
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 Checking and adjusting plug gap is not required between change intervals.

Spark plug gap (nominal) :1.1 mm (0.043 in)

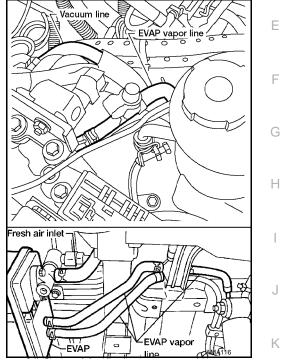
Install spark plugs. Reconnect ignition wires according to numbers indicated on them.

Spark plug : 20 - 29 N·m (2.0 - 3.0 kg-m, 14 - 22 ft-lb)



Checking EVAP Vapor Lines

- Visually inspect EVAP vapor lines for improper attachment and for cracks, damage, loose connections, chafing and deterioration.
- 2. Inspect fuel tank filler cap vacuum relief valve for clogging and sticking. Refer to $\underline{\text{EC-570}}$, "EVAPORATIVE EMISSION SYSTEM".



Changing Positive Crankcase Ventilation (PCV) Filter

Remove air cleaner cover and take out PCV filter located inside air cleaner cover. Then install new PCV filter.

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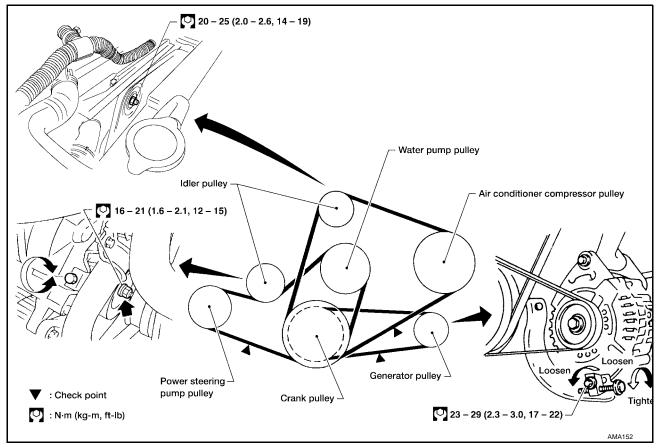
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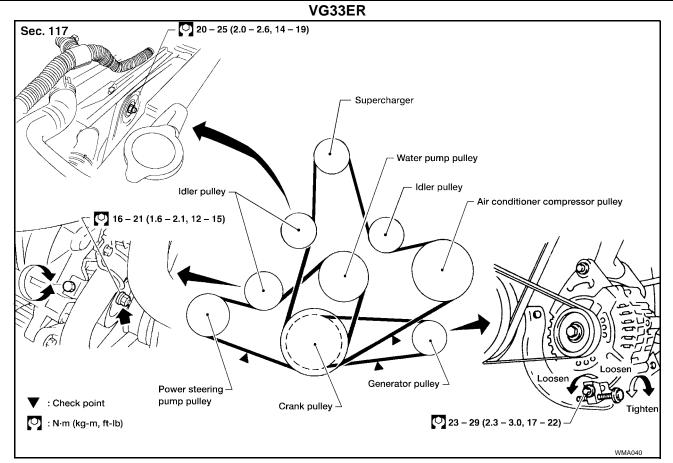
ENGINE MAINTENANCE (VG33E AND VG33ER) Checking Drive Belts

PFP:10001

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VG33E





- 1. Inspect belt for cracks, fraying, wear and oil. If necessary, replace.
- 2. Inspect drive belt deflection or tension at a point on the belt midway between pulleys using Tool.

Tool number : BT-3373-F

NOTE:

- Inspect drive belt deflection or tension when engine is cold.
- Adjust if belt deflections exceed the limit or if belt tension is not within specifications
- Drive belt tension can be checked at other points on the belt.

DRIVE BELT DEFLECTION AND TENSION

Ţ	Deflection adjustment Unit: mm (in)			Tension &	adjustment *1 Unit:	:: N (kg, lb)
-	Used belt		New belt	Used belt		New belt
	Limit	After adjustment	inew belt	Limit	After adjustment	
Generator	11 (0.43)	7 - 8 (0.24 - 0.31)	6 - 7 (0.24 - 0.28)	226 (23, 51)	554.1 - 642.4 (56.5 - 65.5, 124.6 - 144.4)	671.8 - 760.0 (68.5 - 77.5, 151.0 - 170.9
Air conditioner compressor - VG33E	18 (0.71)	12 - 13 (0.47 - 0.51)	10.5 - 11.5 (0.413 - 0.453)	196 (20, 44)	495.3 - 583.5 (50.5 - 59.5, 111.4 - 131.2)	603.1 - 691.4 (61.5 -70.5, 135.6 - 155.5)
Air conditioner compressor and supercharger - VG33ER	16.5 (0.65)	9.5 - 10.5 (0.374 - 0.413)	8.5-9.5 (0.33 - 0.37)	294 (30, 66)	730 - 818 (75.5 - 83.5, 166.5 - 184.1)	838 - 926 (85.5 94.5, 188.5 - 208.4)
Power steering oil pump	15 (0.59)	9.5 - 10.5 (0.374 - 0.413)	8 - 9 (0.31 - 0.35)	275 (28, 62)	554.1 - 642.4 (56.5 - 65.5, 124.6 - 144.4)	671.8 - 760.0 (68.5 - 77.5, 151.0 - 170.9)
Applied pushing force	-	98 N (10 kg, 22 lb)			<u> </u>	

^{*1:} If belt tension gauge cannot be installed at check point shown, check belt tension at a different location on the belt.

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Changing Engine Coolant

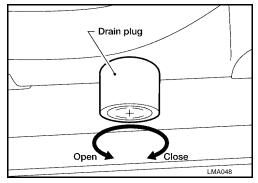
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WARNING:

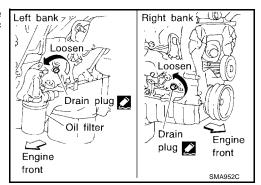
- To avoid being scalded, never change the coolant when the engine is hot.
- Wrap a thick cloth around cap and carefully remove the cap. First, turn the cap a quarter of a turn to release built-up pressure. Then push down and turn the cap all the way to remove.

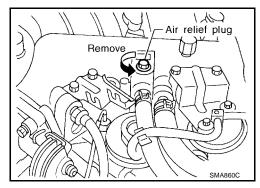
DRAINING ENGINE COOLANT

- 1. Turn ignition switch ON and set temperature control lever all the way to HOT position or the highest temperature position. Wait 10 seconds and turn ignition switch OFF.
- 2. Open the radiator drain plug at the bottom of the radiator, and remove the radiator filler cap. This is the only step required when partially draining the cooling system (radiator only).
 - Do not to allow the coolant to contact the drive belts.



 When draining all of the coolant in the system for engine removal or repair, remove cylinder block drain plug and air relief plug.





Check the drained coolant for contaminants such as rust, corrosion or discoloration.
 If the coolant is contaminated, flush the engine cooling system. Refer to MA-28, "FLUSHING COOLING SYSTEM".

REFILLING ENGINE COOLANT

- 1. Install the radiator drain plug. Install the reservoir tank and cylinder block drain plug, if removed for a total system drain or for engine removal or repair.
 - The radiator must be completely empty of coolant and water.
 - Apply sealant to the threads of the cylinder block drain plugs. Use Genuine High Performance Thread Sealant or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS".

Radiator drain plug

: 7.8 - 11.8 N·m (0.8 - 1.2 kg-m , 69 - 104 in-lb)

Cylinder block drain plug : 34.3 - 44.1 N·m (3.5 - 4.5 kg-m, 25 - 33 ft-lb) Air relief plug : 7 - 8 N·m (0.7 - 0.8 kg-m, 61 - 69 in-lb)

2. If disconnected, reattach the upper radiator hose at the engine side.

3. Set the vehicle heater controls to the full HOT and heater ON position. Turn the vehicle ignition ON with the engine OFF as necessary to activate the heater mode.

 Install the Tool by installing the radiator cap adapter onto the radiator neck opening. Then attach the gauge body assembly with the refill tube and the venturi assembly to the radiator cap adapter.

5. Insert the refill hose into the coolant mixture container that is placed at floor level. Make sure the ball valve is in the closed position.

Use Genuine NISSAN Long Life Anti-freeze coolant or equivalent, mixed 50/50 with distilled water or demineralized water.
 Refer to MA-14, "ANTI-FREEZE COOLANT MIXTURE RATIO".

Engine coolant capacity : 10.15 ℓ (10 3/4 US qt,

(without reservoir tank) 8 7/8 Imp qt)

Reservoir tank : 0.8 ℓ (7/8 US qt, 3/4

Imp qt)

6. Install an air hose to the venturi assembly, the air pressure must be within specification.

Compressed air : 5.7 - 8.5 kPa (5.6 - 8.4 kg/cm², supply pressure 80 - 120 psi)



The compressed air supply must be equipped with an air dryer.

- 7. The vacuum gauge will begin to rise and there will be an audible hissing noise. During this process open the ball valve on the refill hose slightly. Coolant will be visible rising in the refill hose. Once the refill hose is full of coolant, close the ball valve. This will purge any air trapped in the refill hose.
- 8. Continue to draw the vacuum until the gauge reaches 28 inches of vacuum. The gauge may not reach 28 inches in high altitude locations, refer to the vacuum specifications based on the altitude above sea level.

Altitude above sea level

0 - 100 m (328 ft)

300 m (984 ft)

500 m (1,641 ft)

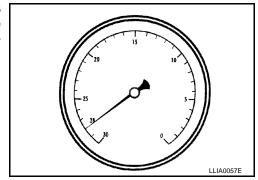
1,000 m (3,281 ft)

Vacuum gauge reading

: 28 inches of vacuum

: 26 inches of vacuum

: 24 - 25 inches of vacuum



- 9. When the vacuum gauge has reached the specified amount, disconnect the air hose and wait 20 seconds to see if the system loses any vacuum. If the vacuum level drops, perform any necessary repairs to the system and repeat steps 6 8 to bring the vacuum to the specified amount. Recheck for any leaks.
- 10. Place the coolant container (with the refill hose inserted) at the same level as the top of the radiator. Then open the ball valve on the refill hose so the coolant will be drawn up to fill the cooling system. The cooling system is full when the vacuum gauge reads zero.

CAUTION:

Do not allow the coolant container to get too low when filling, to avoid air from being drawn into the cooling system.

11. Remove the Tool from the radiator neck opening.

Venturi assembly (part of J-45695)

Gauge body assembly (part of J-45695)

Ball valve (part of J-45695)

Refill hose (part of J-45695)

Radiator cap adapter (part of J-45695)

Radiator

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12. Fill the cooling system reservoir tank to the specified level. Run the engine to warm up the cooling system and top up the system as necessary before installing the radiator cap.

FLUSHING COOLING SYSTEM

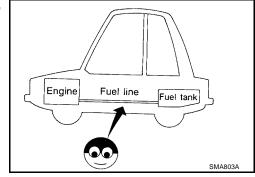
- 1. Fill the radiator from the filler cap above the radiator upper hose and reservoir tank, with water and reinstall the filler cap above the radiator upper hose.
- 2. Run the engine until it reaches normal operating temperature.
- 3. Press the engine accelerator two or three times under no-load.
- Stop the engine and wait until it cools down.
- 5. Drain the water.
- 6. Repeat steps 1 through 5 until clear water begins to drain from the radiator.

Checking Fuel Lines

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Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration.

If necessary, repair or replace faulty parts.



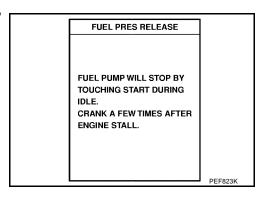
Changing Fuel Filter

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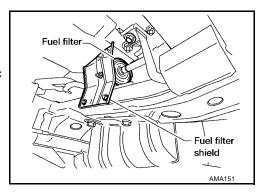
WARNING:

Before removing fuel filter, release fuel pressure from fuel line.

- (II) WITH CONSULT II
- 1. Start engine.
- 2. Perform "FUEL PRESSURE RELEASE" in "WORK SUPPORT" mode to release fuel pressure to zero.



- 3. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- 4. Turn ignition switch "OFF".
- 5. Remove the fuel filter shield.
- 6. Loosen fuel hose clamps.
- 7. Replace fuel filter.
 - Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.



Tighten fuel hose clamps.

Fuel hose clamps : 1.0 - 1.5 N·m (0.1 - 0.15 kg-m, 8.7 - 13.0 in-lb)

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

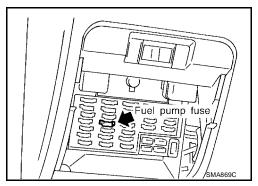
Tightening torque specifications are the same for all rubber hose clamps.

Ensure that the screw does not contact adjacent parts.

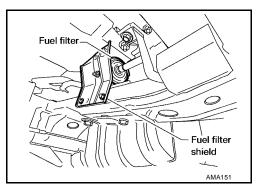
30 (1.18) Fuel hose clamps 1.0 - 1.5 N·m (0.10 - 0.15 kg-m, 8.7 - 13.0 in-lb)

WITHOUT CONSULT - II

- Remove fuel pump fuse.
 For correct fuse location, refer to label on fuse block cover.
- 2. Start engine.
- 3. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- 4. Turn ignition switch "OFF" and install fuel pump fuse.



- 5. Remove the fuel filter shield.
- 6. Loosen fuel hose clamps.
- 7. Replace fuel filter.
 - Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.



Tighten fuel hose clamps.

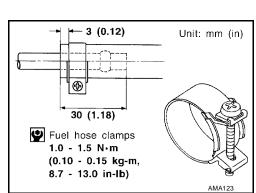
Fuel hose clamps : 1.0 - 1.5 N·m (0.1 - 0.15 kg-m, 8.7 - 13.0 in-lb)

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber hose clamps.

Ensure that the screw does not contact adjacent parts.



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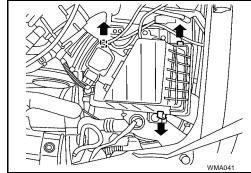
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Changing Air Cleaner Filter VISCOUS PAPER TYPE

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NOTE:

The viscous paper type filter does not need cleaning between replacement intervals.



Changing Engine Oil

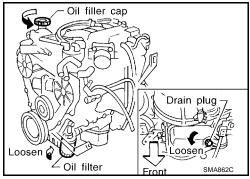
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WARNING:

- Be careful not to burn yourself, as the engine oil is hot.
- Prolonged and repeated contact with used engine oil may cause skin cancer; try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. Warm up engine, and check for oil leakage from engine components.
- 2. Stop engine and wait for more than 10 minutes.
- 3. Remove drain plug and oil filler cap.
- 4. Drain oil and refill with new engine oil.

Oil Specification and Viscosity

- API SG/SH and Energy Conserving I & II or API grade SJ or SL, Energy Conserving
- API Certification Mark
- ILSAC grade GF-I, GF-II & GF-III
- See MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS"



Refill Oil Capacity (Approximately)

Unit: ℓ (US qt, Imp qt)

Drain and refill	Capacity		
with oil filter change	3.3 (3 1/2, 2 7/8)		
without oil filter change	3.0 (3 1/8, 2 5/8)		
Dry engine (engine overhaul)	3.8 (4, 3 3/8)		

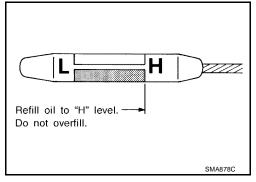
CAUTION:

• Be sure to clean drain plug and install with new washer.

: 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 ft-lb) Oil pan drain plug

• The refill capacity depends on the oil temperature and drain time; use the "Refill oil capacity" values as a reference and be certain to check with the dipstick when changing the oil.

- 5. Warm up engine and check area around drain plug and oil filter for oil leakage.
- 6. Stop engine and wait for more than 10 minutes.
- 7. Check oil level.



Changing Oil Filter

Remove oil filter with Tool.

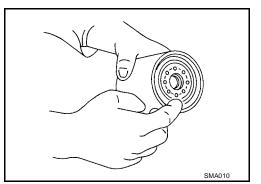
Tool number : KV10115801 (J-38956)

WARNING:

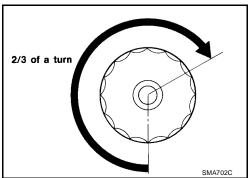
Be careful not to burn yourself, as the engine and engine oil are hot.

The filter is a full-flow cartridge type and is provided with a relief valve.

2. Clean oil filter mounting surface on cylinder block. Coat rubber seal of new oil filter with engine oil.



- 3. Screw in the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
- 4. Add engine oil. Refer to MA-30, "Changing Engine Oil".
 - Clean excess oil from engine.



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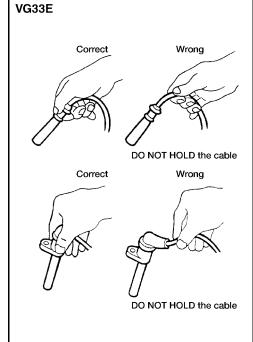
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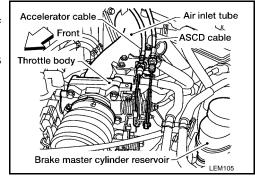
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Changing Spark Plugs

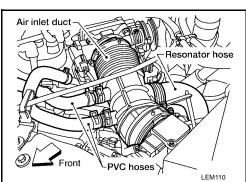
1. Disconnect ignition wires from spark plugs at boot. Do not pull on the wire.



- 2. Remove spark plugs with 16 mm (0.63 in) spark plug wrench.
 - For VG33ER engine only; to remove the No. 2, and 4 spark plugs, the following components must be removed:
 - Disconnect the accelerator cable from the throttle body.
 - Disconnect the ASCD cable from the throttle body, if equipped.
 - Remove air inlet tube bracket from air inlet tube (with cables attached) and position aside.



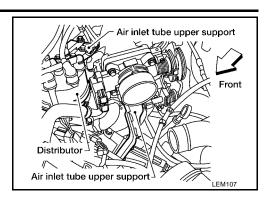
- Remove the air inlet duct.
- Disconnect the PCV hoses.
- · Disconnect the resonator hose.



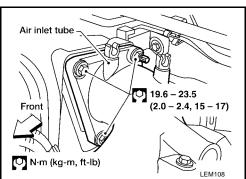
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- Remove the air inlet tube upper and lower supports.



- Remove the air inlet tube bolts, nuts, and studs. Position the air inlet tube aside.
- Disconnect the evaporative emission vacuum hose.
- Disconnect the brake booster vacuum hose.
- Disconnect the TPS sensor electrical connector.
- Disconnect the TPS switch electrical connector.
- 3. Check type and gap of new spark plug.



Spark Plug (VG33E)

Description	NGK (double PLATINUM-TIPPED type)
Hot type	PFR4G-11
Standard type	PFR5G-11
Cold type	PFR6G-11
Spark plug gap (nominal)	1.1 mm (0.043 in)

Spark Plug (VG33ER)

Description	NGK (double PLATINUM-TIPPED type)
Hot type	PFR5G-11
Standard type	PFR6G-11
Cold type	PFR7G-11
Spark plug gap (nominal)	1.1 mm (0.043 in)

Use standard type spark plug under normal conditions.

The hot type spark plug is suitable when fouling occurs with the standard type spark plug under conditions such as:

- frequent engine starts
- low ambient temperatures

The cold type spark plug is suitable when spark knock occurs with the standard type spark plug under conditions such as:

- extended highway driving
- frequent high engine revolution

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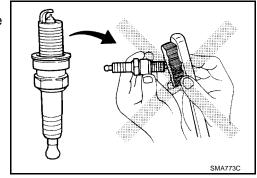
Do not use a wire brush for cleaning.

If plug tip is covered with carbon, spark plug cleaner may be used.

Cleaner air pressure Less than 588 kPa (6 kg/cm²

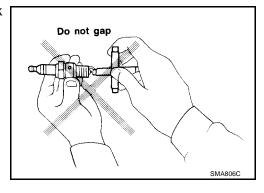
, 85 psi)

Cleaning time Less than 20 seconds



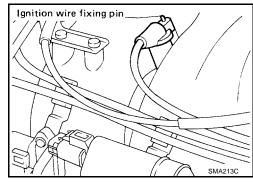
Checking and adjusting plug gap is not required between spark plug change intervals.

Spark plug gap (nominal) 1.1 mm (0.043 in)



When installing spark plugs to No. 2 and 4 cylinders, securely fit each ignition wire mounting hole onto the ignition wire fixing pin.

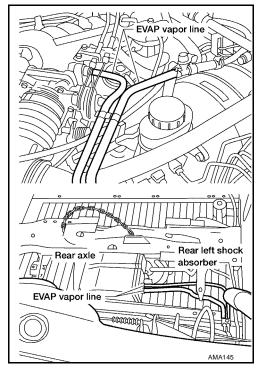
Spark plug : 20 - 29 N·m (2.0 - 3.0 kg-m, 14 - 22 ft-lb)



Checking EVAP Vapor Lines

1. Visually inspect EVAP vapor lines for improper attachment, cracks, damage, loose connections, chafing or deterioration.

 Inspect vacuum relief valve of fuel tank filler cap for clogging and sticking. Refer to <u>EC-1173</u>, "EVAPORATIVE EMISSION SYS-<u>TEM"</u> (VG33E), <u>EC-1750</u>, "EVAPORATIVE EMISSION SYS-<u>TEM"</u> (VG33ER).



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CHASSIS AND BODY MAINTENANCE

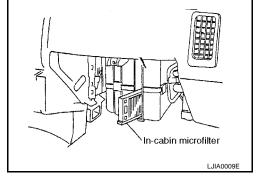
CHASSIS AND BODY MAINTENANCE

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Changing In-cabin Microfilter REPLACEMENT PROCEDURE

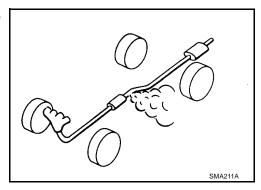
- Remove the glove box assembly. Refer to <u>IP-10</u>, <u>"INSTRU-MENT PANEL ASSEMBLY"</u>.
- 2. Remove the in-cabin microfilter cover.
- 3. Take out the in-cabin microfilter from the blower unit.
- 4. Replace the old microfilter with new in-cabin microfilter in the blower unit.
- Reinstall the glove box assembly.



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Checking Exhaust System

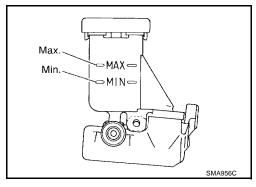
Check exhaust pipes, muffler and mounting for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration.



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Checking Clutch Fluid Level and Leaks

If fluid level is extremely low, check clutch system for leaks.



FLS000XU

Checking M/T Oil

Check for oil leakage and oil level.

CAUTION:

Never start engine while checking oil level.

- Apply sealant to filler plug threads.
- Use Genuine Anaerobic Liquid Gasket or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEAL-ANTS".

Filler plug : 25 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

Filler plug Fill to this level

Changing M/T Oil

ELS000XV

- 1. Drain oil from drain plug and refill with new gear oil.
- 2. Check oil level.

: Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS". Oil grade and viscosity

Oil capacity

FS5W71C : 2.0 ℓ (4 1/4 US pt, 3 1/2 Imp pt)

FS5R30A

4X2 : 2.8 ℓ (5 7/8 US pt, 4 7/8 Imp pt) **4X4** : 5.1 ℓ (10 3/4 US pt, 9 Imp pt)

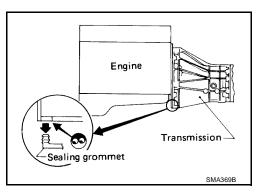
Apply sealant to filler plug threads.

 Use Genuine Anaerobic Liquid Gasket or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS".

Drain plug : 25 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

Checking Water Entry — For 4X4 Models With M/T

Check water entry in the clutch housing by removing the sealing grommet, whenever driving in deep water or mud.



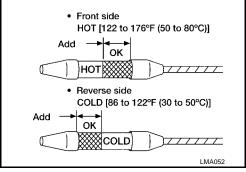
Checking A/T Fluid

1. Warm up engine.

- Check for fluid leakage.
- 3. Before driving, fluid level can be checked at fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on dipstick.
- Park vehicle on level surface and set parking brake. a.
- Start engine and move selector lever through each gear position. Leave selector lever in "P" position.
- Check fluid level with engine idling.
- d. Remove dipstick and note reading. If level is at low side of either range, and fluid to the charging pipe.
- Re-insert dipstick into charging pipe as far as it will go.
- Remove dipstick and note reading. If reading is at low side of range, add fluid to the charging pipe. f.

Do not overfill.

- Drive vehicle for approximately 5 minutes in urban areas.
- Re-check fluid level at fluid temperatures of 50 to 80°C (122 to 176°F) using "HOT" range on dipstick.
- Check fluid condition.
 - If fluid is very dark or smells burned, refer to AT section for checking operation of A/T. Flush cooling system after repair of A/T.
 - If A/T fluid contains frictional material (clutches, bands, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of A/T. Refer to CO-14, "RADIATOR" (KA24DE), CO-30, "RADIATOR" (VG33E and VG33ER).



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Changing A/T Fluid

- 1. Warm up A/T fluid.
- 2. Stop engine.
- 3. Drain A/T fluid from drain plug and refill with new A/T fluid. Always refill same volume with drained fluid.

Fluid grade

Genuine NISSAN Matic
"D" ATF (Continental
U.S. and Alaska) or
Canada NISSAN Auto-

: Refer to MA-12, "REC-OMMENDED FLUIDS AND LUBRICANTS".

Canada NISSAN Automatic Transmission Fluid.

Fluid capacity (with torque converter) KA24DE : 7.9 ℓ (8 3/8 US qt, 7 Imp qt)

VG33E and VG33ER

2WD : 8.3 ℓ (8 3/4 US qt, 7 1/4 Imp qt) 4WD : 8.5 ℓ (9 US qt, 7 1/2 Imp qt)

Drain plug : 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 ft-lb)

- 4. Run engine at idle speed for five minutes.
- 5. Check fluid level and condition. Refer to MA-37, "Checking A/T Fluid" . If fluid is still dirty, repeat steps 2 through 5.

Checking Transfer Fluid

Check for fluid leakage and fluid level.

ATF is used for the transfer in the factory.

CAUTION:

Never start engine while checking fluid level.

- Apply sealant to filler plug threads.
- Use Genuine Anaerobic Liquid Gasket or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEAL-ANTS".

Filler plug : 25 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

Changing Transfer Fluid

When changing transfer fluid completely, ATF may be used.

Fluid grade

75W-90

Genuine NISSAN Matic "D" ATF (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid or API GL-4,

Viscosity SAE 75W-85 or

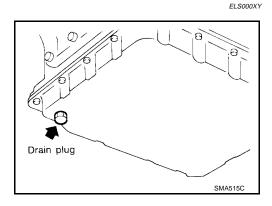
: Refer to MA-12, "REC-OMMENDED FLUIDS AND LUBRICANTS"

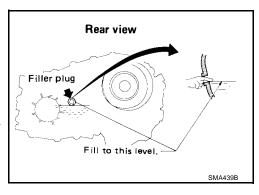
<u>LUBRICANTS"</u>.

Fluid capacity : 2.2 ℓ (2 3/8 US qt, 2 Imp qt)

- Apply sealant to drain plug threads.
- Use Genuine Anaerobic Liquid Gasket or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS".

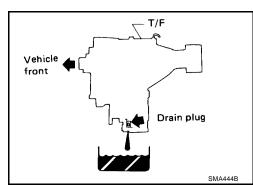
Drain plug : 25 - 34 N-m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)





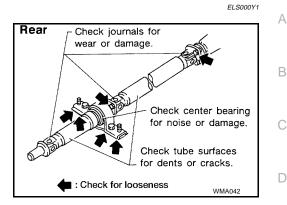
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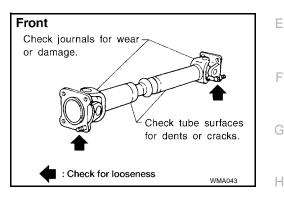
ELS000XZ



Checking Propeller Shaft

Check propeller shaft for damage, looseness or grease leakage.





Greasing Propeller Shaft

Apply specified grease to nipples provided on propeller shaft.

Grease grade Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS".

Greasing point GRAB73C

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Checking Differential Gear Oil

Check for oil leakage and oil level.

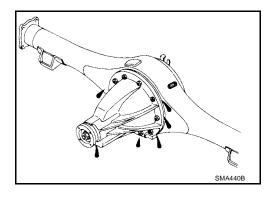
Filler plug

Front — R200A : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

Rear

H233B : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

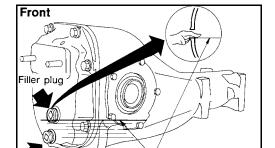
C200 : 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb)



MA-39

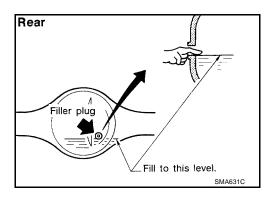
Changing Differential Gear Oil

1. Drain oil from drain plug and refill with new gear oil.



Drain plug

Fill to this level.



Check oil level.

Oil grade and viscosity : Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS".

Oil capacity

Front — R200A : 1.75 ℓ (3 3/4 US pt, 3 1/8 Imp pt)

Rear

H233B : 2.8 ℓ (5 7/8 US pt, 4 7/8 Imp pt) C200 : 1.3 ℓ (2 3/4 US pt, 2 1/4 Imp pt)

Apply sealant to plug threads.

 Use Genuine Anaerobic Liquid Gasket or equivalent. Refer to GI-42, "RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS".

Filler plug

Front — R200A : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

Rear

H233B : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)
C200 : 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb)

Drain plug

Front — R200A : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

Rear

H233B : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)
C200 : 59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

LIMITED-SLIP DIFFERENTIAL GEAR

- Use only approved limited-slip differential gear oil. Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS".
- Limited-slip differential identification.
- Lift both rear wheels off the ground.

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- 2. Turn one rear wheel by hand.
- 3. If both rear wheels turn in the same direction simultaneously, vehicle is equipped with limited-slip differential.

Balancing Wheels

Adjust wheel balance using the road wheel center.

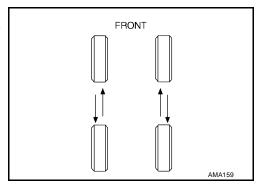
Wheel balance (maximum allowable unbalance) : Refer to MA-47, "Wheel Balance"

Tire Rotation ELS000Y6

• After rotating the tires, adjust the tire pressure.

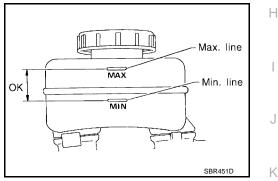
 Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles) (also in cases of a flat tire, etc.).

Wheel nuts : 98 - 117 N·m (10 - 12 kg-m, 73 - 86 ft-lb)



Checking Brake Fluid Level and Leaks

- Check fluid level in reservoir tank. It should be between MAX and MIN lines on reservoir tank.
- If fluid level is extremely low, check brake system.
- If the brake warning lamp comes on, check brake fluid level switch and parking brake switch.



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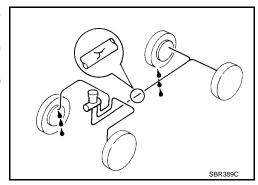
ELS000Y7

Checking Brake Lines and Cables

CAUTION:

If leakage occurs around joints, retighten or, if necessary, replace damaged parts.

- 1. Check brake lines (tubes and hoses) for cracks, deterioration and other damage. Replace any damaged parts.
- 2. Check for oil leakage by fully depressing brake pedal while engine is running.



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Checking Disc BrakeROTOR

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Check condition, wear and damage.

Standard thickness

KA24DE : 26 mm (1.024 in) VG33E & VG33ER : 28 mm (1.10 in)

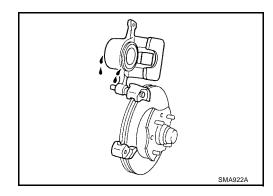
Minimum thickness

KA24DE : 24 mm (0.945 in) VG33E & VG33ER : 26 mm (1.024 in)



CALIPER

Check for leakage.

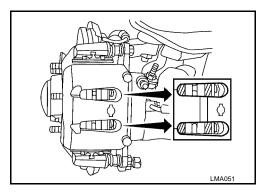


PAD

Check wear or damage.

Standard thickness : 10 mm (0.39 in)

Minimum thickness : 2.0 mm (0.079 in)



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Checking Drum Brake WHEEL CYLINDER

Check for leakage.

DRUM

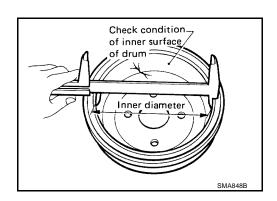
Check condition and inner surface.

Standard inner diameter

KA24DE : 260.0 mm (10.23 in) VG33E & VG33ER : 295.0 mm (11.61 in)

Drum repair limit (inner diameter)

KA24DE : 261.5 mm (10.30 in) VG33E & VG33ER : 296.5 mm (11.67 in)



LINING

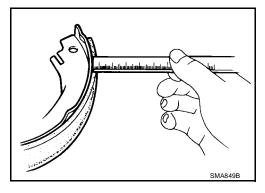
Check wear or damage.

Standard thickness

KA24DE : 5.5 mm (0.217 in) VG33E & VG33ER : 6.1 mm (0.240 in)

Minimum thickness

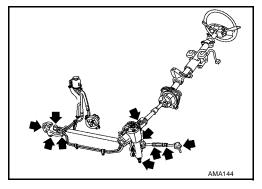
Lining wear limit : 1.5 mm (0.059 in)



ELS000YB

Checking Steering Gear and Linkage STEERING GEAR

- Check steering gear housing for looseness, damage and oil leakage.
- Check connection with steering column for looseness.



STEERING LINKAGE

Check ball joint, dust cover and other component parts for looseness, wear, damage and grease leakage.

Checking Power Steering Fluid and Lines CHECKING FLUID LEVEL

Check fluid level with engine off.

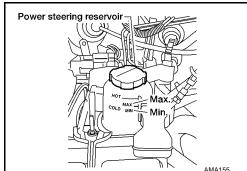
Check fluid level on reservoir. Use "HOT" range at fluid temperatures of 50° to 80°C (122° to 176°F). Use "COLD" range at fluid temperatures of 0° to 30°C (32° to 86°F).

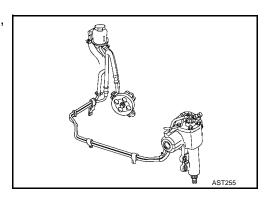
CAUTION:

- Do not overfill.
- Recommended fluid is Genuine NISSAN PSF, Canada NIS-SAN Automatic Transmission Fluid, DEXRON™ III, MER-CON™ or equivalent ATF may also be used. Refer to MA-12. "RECOMMENDED FLUIDS AND LUBRI-CANTS".

CHECKING LINES

Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.





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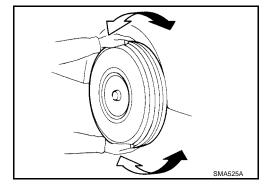
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Checking Axle and Suspension Parts FRONT AND REAR AXLE AND SUSPENSION PARTS

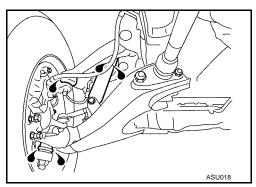
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Check front and rear axle and suspension parts for excessive play, cracks, wear or other damage.

- Shake each wheel to check for excessive play.
- Rotate each wheel to check for abnormal noise.
- Check axle and suspension nuts and bolts for looseness.

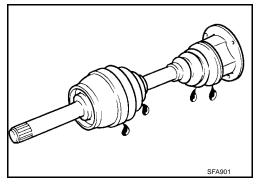


- Check strut (shock absorber) for oil leakage or other damage.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.



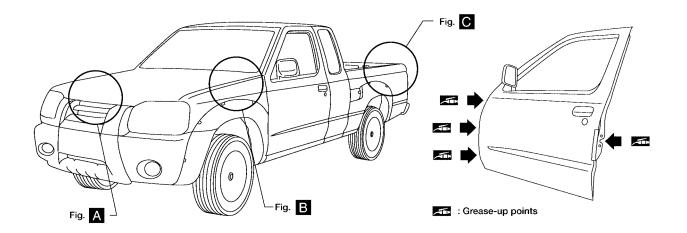
DRIVE SHAFT

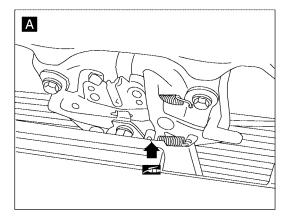
Check boot and drive shaft for cracks, wear, damage, and grease leakage.

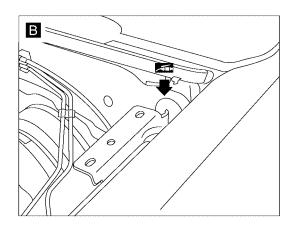


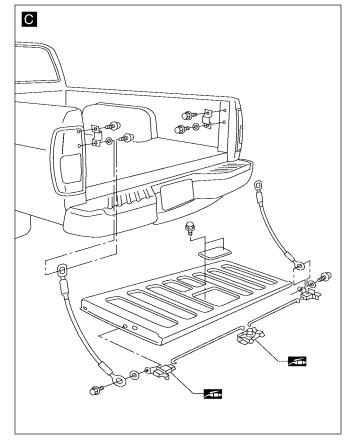
Lubricating Locks, Hinges and Hood Latches

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Lubricate the locations shown. Refer to MA-12, "RECOMMENDED FLUIDS AND LUBRICANTS" .

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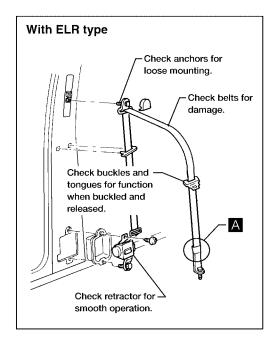
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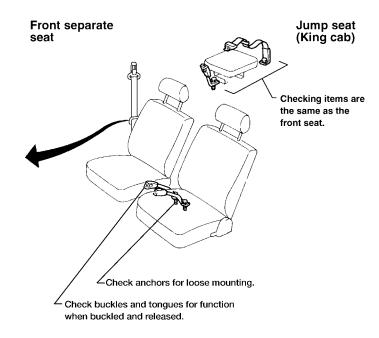
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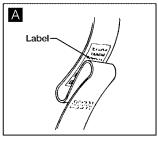
Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

ELS000YF





For details, refer to "Seat Belt Inspection", "SEAT BELTS" in SB section.



For front seat belt, shock absorber type belt has been used.
Replace the belt when loop has been pulled out and "REPLACE BELT" is visible because this seat belt has a loop of webbing under the sleeve.

CAUTION:

- If the vehicle has collided or overturned, replace the entire belt assembly, regardless of nature of accident.
- 2. If the condition of any component of a seat belt is questionable, do not repair seat belt, but replace it as a belt assembly.
- 3. If webbing is cut, frayed, or damaged, replace belt assembly.
- Do not spill drinks, oil, etc. on inner lap belt buckle.

 Never oil tongue and buckle.
- 5. Use a NISSAN genuine seat belt assembly.

WLIA0003E

Wheel Balance			ELS000YG
Maximum allowable unbalance	Dynamic (At rim flange)	10 g (0.35 oz) (one side)	
	Static	20 g (0.71 oz)	

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