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PREPARATION

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PREPARATION	
PREPARATION	, A
FOR NORTH AMERICA	
FOR NORTH AMERICA : Special Service Tool	INFOID:00000008276242
The actual shapes of Kent-Moore tools may differ from those of special service tools illustr	ated here.
Tool number (Kent-Moore No.) Tool name	Description
KV10115801 (J-38956)	Removing and installing oil filter a: 64.3 mm (2.531 in)
Oil filter wrench	a. 64.3 mm (2.331 m)
S-NT375	
FOR NORTH AMERICA : Commercial Service Tool	INFOID:00000008278243
(Kent-Moore No.)	
Tool name	Description
(—) Power tool	Loosening nuts and bolts
PBIC0190E	
(-)	Checking radiator and radiator cap
Radiator cap tester	
	L
PBIC1982E	
(—) Radiator cap tester adapter	Adapting radiator cap tester to radiator cap and radiator filler neck a: 28 (1.10) dia.
	b: 31.4 (1.236) dia. c: 41.3 (1.626) dia. Unit: mm (in)
S-NT564	Removing and installing spark plug
Spark plug wrench 14 mm (0.55 in) PBIC2982E	M.

FOR MEXICO

PREPARATION

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FOR MEXICO : Special Service Tool

INFOID:000000008278244

Tool number Tool name		Description
KV10115801 Oil filter wrench		Removing and installing oil filter a: 64.3 mm (2.531 in)
	S-NT375	

FOR MEXICO : Commercial Service Tool

Tool name		Description
Power tool		Loosening nuts and bolts
	PBICO190E	
Radiator cap tester		Checking radiator and radiator cap
	O C C O	
	PBIC1982E	
Radiator cap tester adapter		Adapting radiator cap tester to radiator cap and radiator filler neck a: 28 (1.10) dia. b: 31.4 (1.236) dia. c: 41.3 (1.626) dia. Unit: mm (in)
	S-NT564	
Spark plug wrench		Removing and installing spark plug
	14 mm (0.55 in) PBIC2982E	

PERIODIC MAINTENANCE GENERAL MAINTENANCE FOR NORTH AMERICA

FOR NORTH AMERICA : Explanation of General Maintenance

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

OUTSIDE THE VEHICLE

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

Item		Reference page	
Tires	Check the pressure with a gauge often and always prior to long distance trips. Ad- just the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.	<u>WT-50</u>	E
Wheel nuts	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	_	F
Tire rotation	Tires should be rotated every 7,500 miles (12,000 km). If the vehicle is equipped with different sized tires in the front and rear, tires cannot be rotated.	<u>MA-33</u>	(
Tire Pressure Monitoring System (TPMS) transmitter components	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	<u>WT-9</u>	
Wheel alignment and bal- ance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed. For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the NISSAN Warranty Information Booklet.	<u>FSU-7</u> <u>RSU-6</u> <u>MA-33</u>	ŀ
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	_	,
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 back door. 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.	<u>MA-39</u>	ŀ
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.	_	N

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

nem		Reference page	
Warning lamps and chimes	Make sure that all warning lamps and chimes are operating properly.	_	0
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	_	MA
Windshield defroster	Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	—	MA
Steering wheel	Check that it has the specified play. Check for changes in the steering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	_	

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GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

Item		Reference page
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 restrains 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 re- tractors) operate properly and smoothly and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	<u>MA-39</u>
Accelerator pedal	Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	_
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 un- der it when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	<u>BR-8</u> <u>BR-14</u>
Parking brake	Check that the lever or the pedal 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.	<u>PB-3</u>
CVT P (Park) position mechanism	On a fairly steep hill check that the vehicle is held securely with the selector lever in the P (Park) 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).

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.	<u>MA-19</u> CO-10
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.	<u>MA-24</u>
Brake fluid level	Make sure that the brake fluid level is between the "MAX" and "MIN" lines on the reservoir.	<u>MA-35</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.	<u>PG-3</u>
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	<u>MA-19</u>
Engine oil level	Check the level on the oil level gauge after parking the vehicle on a level spot and turning off the engine.	<u>LU-5</u>
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>MA-29</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, oth- erwise rust will form on the floor pan, frame, fuel lines and around the exhaust sys- tem. 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.	_

FOR MEXICO

FOR MEXICO : General Maintenance

INFOID:000000008671135

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.

GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

OUTSIDE THE VEHICLE

	Item	Reference page
Doors and engine hood	Check that all doors and the engine hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.	<u>MA-39</u>
Lamps	Clean the headlamps on a regular basis. Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly installed securely. Also check the aim of the headlamps.	_
Tires	Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.	<u>WT-50</u>
Tire rotation	In the case that Two-Wheel Drive (2WD) and front & rear tires are same size; Tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that Four-Wheel Drive (4WD) and front & rear tires are same size; Tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that front tires are different size from rear tires; Tires cannot be rotated. However, the timing for tire rotation may vary according to your driving habits and the road surface conditions.	<u>MA-33</u>
Tire Pressure Monitor- ing System (TPMS) transmitter components (if equipped)	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	_
Wheel alignment and balance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	<u>FSU-7</u> <u>RSU-6</u> <u>MA-33</u>
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repairs necessary.	_
Wiper blades	Check for cracks or wear if not functioning correctly.	

INSIDE THE VEHICLE

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

	Item	Reference page	
Accelerator pedal	Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—	M
Brake pedal	Check the pedal for smooth operation and make sure that it attains the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	<u>BR-8</u>	N
Parking brake	Check the parking brake operation regularly. Check that the lever (if equipped) or the pedal (if equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	<u>PB-3</u>	0
Seat belts	Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	<u>MA-39</u>	MA
Steering wheel	Check for changes in the steering condition, such as excessive play, hard steering or strange noises. Check that it has the specified play. Free play: Less than 35 mm (1.38 in)		IVIA
Warning lamps and chimes	Make sure that all warning lamps and chimes are operating properly.	_	

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GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

	Item	Reference page
Windshield defogger	Check that the air comes out of the defogger outlets properly and in good quantity when operating the heater or air conditioner.	_
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	_

UNDER THE HOOD AND VEHICLE

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

	Item	Reference page
Battery	Except for maintenance free battery; Check the fluid level in each cell. It should be be- tween the "UPPER" and "LOWER" lines. Vehicles operated in high temperatures or un- der severe conditions require frequent checks of the battery fluid level.	<u>PG-3</u>
Brake (and clutch) fluid level(s)	For Manual Transmission (MT) model; Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir(s). Except for Manual Transmission (MT) model; Make sure that the brake fluid level is between the "MAX" and "MIN" lines on the reservoir.	<u>MA-35</u>
Engine coolant level	Check the coolant level when the engine is cold. Make sure that the coolant level is be- tween the "MAX" and "MIN" lines on the reservoir.	<u>MA-19</u>
Engine drive belt(s)	Make sure that drive belt(s) is/are not frayed, worn, cracked or oily.	<u>MA-19</u>
Engine oil level	Check the level after parking the vehicle (on a level ground) and turning off the engine.	<u>LU-5</u>
Fluid leaks	Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for cause and have it corrected immediately.	_
Windshield washer fluid	Check that there is adequate fluid in the reservoir tank.	—

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE FOR NORTH AMERICA

FOR NORTH AMERICA : Introduction of Periodic Maintenance

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 the driving habits frequently include one or more of the following driving conditions:	Emission Control Sys- tem Maintenance	<u>MA-9</u>
Schedule 1	 Repeated short trips of less than 5 miles (8 km). Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing. Operating in hot weather in stop-and-go "rush hour" traffic. 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. 	Chassis and Body Maintenance	<u>MA-9</u>
Cohodulo 2	Follow Periodic Maintenance Schedule 2 if none of driving conditions shown in Schedule 1 apply to the driving habits.	Emission Control Sys- tem Maintenance	<u>MA-11</u>
Schedule 2		Chassis and Body Maintenance	<u>MA-11</u>

FOR NORTH AMERICA : Schedule 1

EMISSION CONTROL SYSTEM MAINTENANCE

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

MAINTENANCE OPERATION				MAIN	TENAN	CE INTE	RVAL			Reference	
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.50 (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	J
Drive belts	NOTE (1)									<u>MA-19</u>	
Air cleaner filter	NOTE (2)								[R]	<u>MA-25</u>	K
EVAP vapor lines									I *	<u>MA-28</u>	
Fuel lines									*	<u>MA-25</u>	L
Fuel filter	NOTE (3)									-	
Engine coolant*	NOTE (4)(5)									<u>MA-19</u>	
Engine oil		R	R	R	R	R	R	R	R	<u>MA-25</u>	N
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent.)		R	R	R	R	R	R	R	R	<u>MA-26</u>	N
Spark plugs (Iridium-tipped type)			Repl	lace ever	y 105,00)0 miles ((168,000	km).		<u>MA-27</u>	
Intake & exhaust valve clear- ance*	NOTE (6)									<u>EM-21</u>	С

MAINTENANCE OPERATION			Reference							
Perform at number of miles, kilometers or months, which- ever comes first.	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
Drive belts	NOTE (1)								*	<u>MA-19</u>
Air cleaner filter	NOTE (2)								[R]	<u>MA-25</u>
EVAP vapor lines									*	<u>MA-28</u>

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< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION				MAIN	TENAN	CE INTEI	RVAL			Reference
Perform at number of miles, kilometers or months, which- ever comes first.	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
Fuel lines									*	<u>MA-25</u>
Fuel filter	NOTE (3)									-
Engine coolant*	NOTE (4)(5)									<u>MA-19</u>
Engine oil		R	R	R	R	R	R	R	R	<u>MA-25</u>
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent.)		R	R	R	R	R	R	R	R	<u>MA-26</u>
Spark plugs (Iridium-tipped type)			Repla	ace every	/ 105,00	0 miles (168,000	km).		<u>MA-27</u>
Intake & exhaust valve clear- ance*	NOTE (6)									<u>EM-21</u>

NOTE:

(1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. Replace the drive belts if found damaged (or if the auto belt tensioner reading reaches maximum limit).

(2) If operating mainly in dusty conditions, more frequent maintenance may be required.

(3) Maintenance-free item. For service procedures, refer to FL section.

(4) First replacement interval is 105,000 miles (168,000 km) or 84 months. After first replacement, replace every 75,000 miles (120,000 km) or 60 months.

(5) Use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with proper mixture ratio of 50% anti-freeze and 50% demineralized or distilled water. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant.

(6) Periodic maintenance is not required. However, if valve noise 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.

CHASSIS AND BODY MAINTENANCE

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

MAINTENANCE OPERATION	N			MAIN	ITENAN	CE INTE	RVAL			Reference
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.50 (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				I	<u>MA-36</u>
Brake fluid					R				R	<u>MA-36</u>
Brake pads & rotors			I		Ι		I		Ι	<u>MA-36</u>
CVT fluid	NOTE (1)				Ι				Ι	<u>MA-29</u>
Transfer oil & differential gear oil	NOTE (2)				I				I	<u>MA-31</u> MA-32
Steering gear & linkage, axle & suspension parts			I		Ι		I		Ι	<u>MA-37</u> <u>MA-38</u>
Tire rotation	NOTE (3)									<u>MA-33</u>
Propeller shaft (AWD mod- els) & drive shaft boots			I		Ι		I		Ι	<u>MA-32</u> <u>MA-38</u>
Exhaust system			I		I		I		I	<u>MA-29</u>
In-cabin microfilter					R				R	<u>VTL-9</u>

< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION	I			MAIN	ITENAN	CE INTER	RVAL			Reference	
Perform at number of miles, kilometers or months, which- ever comes first.	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					Ι				Ι	<u>MA-36</u>	
Brake fluid					R				R	<u>MA-36</u>	
Brake pads & rotors			Ι		Ι		Ι		Ι	<u>MA-36</u>	
CVT fluid	NOTE (1)				Ι				Ι	<u>MA-29</u>	
Transfer oil & differential gear oil	NOTE (2)				I				I	<u>MA-31</u> MA-32	
Steering gear & linkage, axle & suspension parts			I		I		I		Ι	<u>MA-37</u> MA-38	
Tire rotation	NOTE (3)									<u>MA-33</u>	
Propeller shaft (AWD models) & drive shaft boots			I		I		I		I	<u>MA-32</u> MA-38	
Exhaust system			Ι		Ι		Ι		Ι	<u>MA-29</u>	
In-cabin microfilter					R				R	<u>VTL-9</u>	

NOTE:

(1) Use only Genuine NISSAN CVT fluid (NS-2). If towing a trailer, using a camper or a car-top carrier or driving on rough or muddy roads, inspect CVT fluid deterioration at NISSAN dealers every 60,000 miles (96,000 km), then change CVT fluid NS-2 if necessary. And if the inspection is not performed, change (not just inspect) CVT fluid NS-2 every 60,000 miles (96,000 km). Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.

(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.

(3) Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.

FOR NORTH AMERICA : Schedule 2

EMISSION CONTROL SYSTEM MAINTENANCE

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

MAINTENANCE OPERATION	INTENANCE OPERATION			MAIN	TENAN	CE INTE	ERVAL				
Perform at number of miles, kilo- meters 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	Reference Sec- tion - Page or - Content Title	
Drive belts	NOTE (1)								I *	<u>MA-19</u>	•
Air cleaner filter					[R]				[R]	<u>MA-25</u>	•
EVAP vapor lines					*				I *	<u>MA-28</u>	-
Fuel lines					*				I *	<u>MA-25</u>	•
Fuel filter	NOTE (2)									-	•
Engine coolant*	NOTE (3)(4)									<u>MA-19</u>	
Engine oil		R	R	R	R	R	R	R	R	<u>MA-25</u>	•
Engine oil filter (Use genuine NISSAN engine oil filter or equiv- alent.)		R	R	R	R	R	R	R	R	<u>MA-26</u>	
Spark plugs (Iridium-tipped type)			Repla	ce every	/ 105,00	00 miles	(168,00	00 km).		<u>MA-27</u>	N
Intake & exhaust valve clear- ance*	NOTE (5)									<u>EM-21</u>	•

NOTE:

(1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. Replace the drive belts if found damaged or if the auto belt tensioner reading reaches maximum limit.

(2) Maintenance-free item. For service procedures, refer to FL section.

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< PERIODIC MAINTENANCE >

(3) First replacement interval is 105,000 miles (168,000 km) or 84 months. After first replacement, replace every 75,000 miles (120,000 km) or 60 months.

(4) Use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with proper mixture ratio of 50% anti-freeze and 50% demineralized or distilled water. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant.

(5) Periodic maintenance is not required. However, if valve noise 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.

CHASSIS AND BODY MAINTENANCE

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

MAINTENANCE OPERATION				MAIN	TENAN	CE INT	ERVAL			Reference Sec-
Perform at number of miles, kilo- meters 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	tion - Page or - Content Title
Brake lines & cables			Ι		I		Ι		I	<u>MA-36</u>
Brake fluid					R				R	<u>MA-36</u>
Brake pads & rotors			-		I		Ι		I	<u>MA-36</u>
CVT fluid	NOTE (1)		-		I		Ι		I	<u>MA-29</u>
Transfer oil & differential gear oil			Ι		I		I		I	<u>MA-31</u> MA-32
Steering gear & linkage, axle & suspension parts					I				I	<u>MA-37</u> <u>MA-38</u>
Tire rotation	NOTE (2)									<u>MA-33</u>
Propeller shaft (AWD models) & drive shaft boots			I		I		I		I	<u>MA-32</u> <u>MA-38</u>
Exhaust system					I				I	<u>MA-29</u>
In-cabin microfilter			R		R		R		R	<u>VTL-9</u>

NOTE:

(1) Using transmission fluid other than Genuine Nissan CVT Fluid NS-2 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.

(2) Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.

FOR MEXICO

FOR MEXICO : Periodic Maintenance

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

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

ENGINE AND EMISSION CONTROL MAINTENANCE

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

		-						-			
MAINTENANCE OPERATION											
Perform at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Reference page	
Underhood and under vehicle											
Intake & exhaust valve clearance	See NOTE (1)									<u>EM-21</u>	
Drive belts	See NOTE (2)				I				I	<u>MA-19</u>	
Engine oil (Use recommended oil.) \star		R	R	R	R	R	R	R	R	<u>MA-25</u>	
Engine oil filter (Use genuine NISSAN en- gine oil filter or equivalent)★		R	R	R	R	R	R	R	R	<u>MA-26</u>	

< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION				MAIN	TENAN	CE INT	ERVAL				-
Perform at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Reference page	
Engine coolant	See NOTE (3)				E				E	<u>MA-20</u>	-
Cooling system					I				I	<u>MA-19</u> <u>MA-24</u> <u>MA-24</u>	-
Fuel lines					I				I	<u>MA-25</u>	-
Air cleaner filter (Viscous paper type)★					R				R	<u>MA-25</u>	-
Fuel filter (In-tank type)	See NOTE (4)									_	-
Spark plugs (Iridium-tipped type)	Replace every 100,000 km (60,000 miles)						<u>MA-27</u>	-			
EVAP vapor lines (With carbon canister)					I				I	<u>MA-28</u>	-

NOTE:

• Maintenance items with "*" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".

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

- (2) Replace the drive belts if found damaged or if the auto belt tensioner reading reaches the maximum limit.
- (3) Use Genuine NISSAN Engine Coolant (blue) or equivalent in its quality, in order to avoid possible aluminium corrosion within the engine cooling system caused by the use of non-genuine engine coolant. Check and correct the engine coolant mixture ratio every 40,000 km (24,000 miles) or 24 months. First replacement interval is 160,000 km (96,000 miles) or 96 months. After first replacement, replace every 80,000 km (48,000 miles) or 48 months.
- (4) Maintenance-free item. For service procedures, refer to FL section.

CHASSIS AND BODY MAINTENANCE

	Abbreviations: I =	Inspec	t and co	orrect or	replace	e as neo	cessary,	R = F	Replace,	L = Lubricate.
MAINTENANCE OPERATION				MAINT	FENAN	CE INT	ERVAL	-		
Perform at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Reference page
	Underhoo	d and u	under v	vehicle	I	1		I	11	
Brake line & cables			I		I		Ι		Ι	<u>MA-36</u>
Brake fluid (For level & leaks)			I		I		Ι		Ι	<u>MA-35</u>
Brake fluid★					R				R	<u>MA-36</u>
CVT fluid (For level & leaks)	See NOTE (1)		I		I		Ι		I	<u>MA-29</u>
Exhaust system					I				I	<u>MA-29</u>
Transfer oil (For level & leaks)			I		I		Ι		Ι	<u>MA-31</u>
Differential gear oil (For level & leaks) \bigstar			I		I		-		I	<u>MA-32</u>
Propeller shaft & drive shafts★			I		I		Ι		I	<u>MA-32</u> MA-38
Steering gear & linkage, axle & suspension parts★					I				I	<u>MA-37</u> MA-38
	Outs	ide and	d insid	e					11	
Wheel alignment (If necessary, rotate & bal- ance wheels)			I		I		I		I	<u>FSU-7</u> <u>RSU-6</u> <u>MA-33</u>
Brake pads, rotors, drums & linings★			I		I		I		I	<u>MA-36</u> <u>BR-15</u> <u>BR-17</u>

F

< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION	MAINTENANCE INTERVAL									
Perform at number of kilometers (miles) or months, whichever comes first.	km x 1,000 (Miles x 1,000) Months	10 (6) 6	20 (12) 12	30 (18) 18	40 (24) 24	50 (30) 30	60 (36) 36	70 (42) 42	80 (48) 48	Reference page
Foot brake & parking brake (For free play, stroke & operation)			I		Ι		Ι		I	<u>BR-8</u> PB-3
Air conditioner filter★			R		R		R		R	<u>VTL-9</u>

NOTE:

- Maintenance items with "*" should be performed more frequently according to "Maintenance Under Severe Driving Conditions".
- (1) Use only Genuine NISSAN CVT fluid (NS-2). If towing a trailer, using a camper or a car-top carrier or driving on rough or muddy roads, inspect CVT fluid deterioration at NISSAN dealers every 100,000 km (60,000 miles), then change CVT fluid NS-2 if necessary. And if the inspection is not performed, change (not just inspect) CVT fluid NS-2 every 100,000 km (60,000 miles). Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT, which is not covered by the warranty.

MAINTENANCE UNDER SEVERE DRIVING CONDITIONS

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

Severe driving conditions

- A Driving under dusty conditions
- B Driving repeatedly short distances
- C Towing a trailer or caravan
- D Extensive idling

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

- F Driving in high humidity or mountainous areas
- G Driving in areas using salt or other corrosive areas
- 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 driving in water

Maintenance operation: Inspect. Correct or replace if necessary.

	Driving condition					n		Mainter	ance item	Mainte- nance op- eration	Maintenance interval	Refer- ence page	
A									Air cleaner filter	Viscous paper type	Replace	More frequently	<u>MA-25</u>
A	В	С	D	•	•				Engine oil & engir	e oil filter	Replace	Every 5,000 km (3,000 miles) or 3 months	<u>MA-25</u> <u>MA-26</u>
				•	F	-			Brake fluid		Replace	Every 20,000 km (12,000 miles) or 12 months	<u>MA-36</u>
	•	С	•	•			н		Differential gear o	il	Replace	Every 40,000 km (24,000 miles) or 24 months	<u>MA-32</u>
					-	G	н		Propeller shaft & c	drive shafts	Inspect	Every 10,000 km (6,000 miles) or 6 months	<u>MA-32</u> <u>MA-38</u>
	•		•	•		G	н		Steering gear & lir pension parts	nkage, axle & sus-	Inspect	Every 20,000 km (12,000 miles) or 12 months	<u>MA-37</u> <u>MA-38</u>
A	•	С	•	•		G	н	I	Brake pads, rotors	s, drums & linings	Inspect	Every 5,000 km (3,000 miles) or 3 months	<u>MA-36</u> <u>BR-15</u> <u>BR-17</u>
A									Air conditioner filte	er	Replace	More frequently	<u>VTL-9</u>

< PERIODIC MAINTENANCE >

RECOMMENDED FLUIDS AND LUBRICANTS FOR NORTH AMERICA

FOR NORTH AMERICA : Fluids and Lubricants

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В

			Ca	pacity (Approxima	te)	Decommonded Eluido/Lubricanta	
			US measure	Imp measure	Liter	 Recommended Fluids/Lubricants 	
Engine oil		With oil filter change	4-7/8 qt	4 qt	4.6		
Drain and refil	I	Without oil fil- ter change	4-1/2 qt	3-3/4 qt	4.3	Engine oil with API Certification Mark* ¹ Viscosity SAE 5W-30	
Dry engine (O	Dry engine (Overhaul)		5-3/4 qt	4-3/4 qt	5.4		
Cooling system Cooling system With reservoir tank Reservoir tank		With reservoir tank	7-3/4 qt	6-3/8 qt	7.3	Pre-diluted Genuine NISSAN Long Life Anti-	
			3/4 qt	5/8 qt	0.75	freeze/Coolant (blue) or equivalent	
	2WD	Without fluid cooler	7-3/4 qt	6-3/8 qt	7.3		
C\/T fluid	2000	With fluid cooler	7-7/8 qt	6-5/8 qt	7.5		
CVT fluid	AWD	Without fluid cooler	8-3/4 qt	7-1/4 qt	8.3	Genuine NISSAN CVT Fluid NS-2 *2	
	AVVD	With fluid cooler	9 qt	7-1/2 qt	8.5		
Differential ge	ar oil		1-1/8 pt	1 pt	0.55	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5, Viscosity SAE 80W-90 * ³	
Transfer oil		nsfer oil		5/8 pt	0.36	Genuine NISSAN Differential Oil Hypoid Su- per GL-5 80W-90 or API GL-5, Viscosity SAE 80W-90	
Brake fluid			_	_	_	Genuine NISSAN Super Heavy Duty Brake Fluid ^{*4} or equivalent DOT 3 (US FMVSS No. 116)	
Multi-purpose	grease		_			NLGI No. 2 (Lithium soap base)	
Windshield wa	asher flui	id	_	_	—	Genuine NISSAN Windshield Washer Con- centrate Cleaner & Antifreeze or equivalent	
Fuel recomme	endation		—	_		Refer to GI-36, "Fuel"	

*1: For additional information, see "Engine Oil Recommendation".

*2: Use only Genuine NISSAN CVT Fluid NS-2. Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.

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

*4: Available in mainland U.S.A. through a NISSAN dealer.

FOR NORTH AMERICA : Engine Oil Recommendation

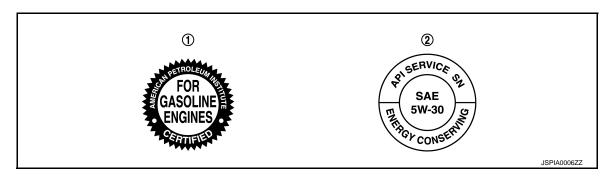
NISSAN recommends the use of an energy conserving oil in order to improve fuel economy. Select only engine oils that meet the American Petroleum Institute (API) certification and International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

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< PERIODIC MAINTENANCE >



1. API certification mark

2. API service symbol

FOR NORTH AMERICA : Anti-Freeze Coolant Mixture Ratio

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The engine cooling system is filled at the factory with a pre-diluted mixture of 50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) and 50% water to provide year-round anti-freeze and coolant protection. The anti-freeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

WARNING:

- Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator.
- The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.

CAUTION:

- When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent. Genuine NISSAN Long Life Antifreeze/Coolant (blue) is pre-diluted to provide antifreeze protection to -34°F (-37°C). If additional freeze protection is needed due to weather where you operate your vehicle, add Genuine NISSAN Long Life Antifreeze/Coolant (blue) concentrate following the directions on the container. If an equivalent coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufactur's instructions to maintain minimum antifreeze protection to -34°F (-37°C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) is used, follow the coolant manufactur's instructions to maintain minimum antifreeze protection to -34°F (-37°C). The use of other types of coolant solutions other than Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent may damage the engine cooling system.
- Mixing any other type of coolant other than Genuine NISSAN Long Life Antifreeze/Coolant (blue), including Genuine NISSAN Long Life Antifreeze/Coolant (green), or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant.

FOR MEXICO

FOR MEXICO : Fluids and Lubricants

			Capacity (Approximate)	Recommended Fluids/Lubricants
			Liter	Imp measure	Recommended Fluids/Lubricants
Engine oil Drain and re- fill	With oil filter cha	ange	4.6	4 qt	Genuine NISSAN engine oil*1
	Without oil filter	change	4.3	3-3/4 qt	API grade SL, SM or SN ^{*1} ILSAC grade GF-2, GF-3, GF-4, GF-5 ^{*1}
Dry engine (engine overhaul)			5.4	4-3/4 qt	Viscosity SAE 10W-30
Cooling syste	m (with reservoir)		7.3	6-3/8 qt	Genuine NISSAN Engine Coolant (blue) or equiva-
Reservoir tanl	ĸ		0.75	5/8 qt	lent* ²
Transfer oil			0.36	5/8 pt	Genuine NISSAN Differential Oil Hypoid Super GL-5
Differential gear oil			0.55	1 pt	80W-90 or API GL-5, Viscosity SAE 80W-90
CVT fluid	2WD		7.5	6-5/8 qt	Genuine NISSAN CVT fluid NS-2* ³
		4WD	8.5	7-1/2 qt	Genuine NISSAN CVT Huld NS-2"

< PERIODIC MAINTENANCE >

	Capacity (Approximate)	Recommended Fluids/Lubricants		
	Liter	Imp measure			
Brake fluid	_	_	Genuine NISSAN Brake Fluid, or equivalent DOT 3 (US FMVSS No. 116)	R	
Multi-purpose grease			NLGI No. 2 (Lithium soap base)	D	

*1: For additional information, see "SAE Viscosity Number".

*2: Use Genuine NISSAN Engine Coolant (blue) or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine cooling system caused by the use of non-genuine engine coolant.

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.

*3: Use only Genuine NISSAN CVT fluid NS-2. Using transmission fluid other than Genuine NISSAN CVT fluid NS-2 will damage the CVT, which is not covered by the warranty.

FOR MEXICO : SAE Viscosity Number

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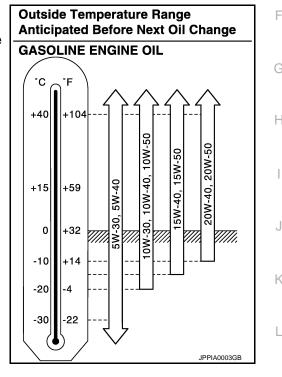
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GASOLINE ENGINE

• 10W-30 is preferable.

5W-30 is also preferable and will improve fuel economy. If 10W-30 or 5W-30 is not available, select the viscosity, from the chart, that is suitable for the outside temperature range.



FOR MEXICO : 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:

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

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

• When checking the engine coolant mixture ratio by the coolant

hydrometer, use the chart below to correct your hydrometer reading (specific gravity) according to coolant temperature.

Mixed coolant specific gravity

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

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< PERIODIC MAINTENANCE >

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

WARNING:

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

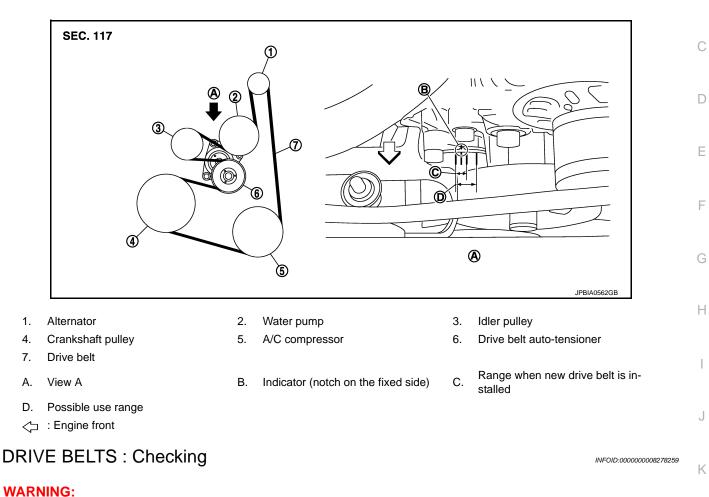
ENGINE MAINTENANCE DRIVE BELTS

DRIVE BELTS : Exploded View

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Be sure to perform this step when the engine is stopped.

- Check that the indicator (notch on fixed side) of drive belt auto-tensioner is within the possible use range (between four line notches on moving side).
 NOTE:
 Check the drive belt auto-tensioner indication when the engine is cold.
 When new drive belt is installed, the indicator (notch on fixed side) should be within the range (C) in the fig-
- when new drive beit is installed, the indicator (notch on fixed side) should be within the range (C) in the figure.
 Viewally also also active beit for users allowed as a second side.
- Visually check entire drive belt for wear, damage or cracks.
- If the indicator (notch on fixed side) is out of the possible use range or belt is damaged, replace drive belt.

DRIVE BELTS : Tension Adjustment

Refer to : <u>EM-116, "Drive belt"</u>.

ENGINE COOLANT

ENGINE COOLANT : Inspection

LEVEL

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< PERIODIC MAINTENANCE >

- Check that the reservoir tank engine coolant level is within the "MIN" to "MAX" when the engine is cool.
 - A : MAX
 - B : MIN
- Adjust the engine coolant level if necessary.

CAUTION:

Refill Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent in its quality mixed with water (distilled or demineralized). Refer to <u>MA-15, "FOR NORTH AMERICA : Fluids and Lubricants"</u> (For North America). or <u>MA-16, "FOR MEXICO :</u> <u>Fluids and Lubricants"</u> (For Mexico)

LEAKAGE

• To check for leakage, apply pressure to the cooling system with the radiator cap tester (commercial service tool) (A) and the radiator cap tester adapter (commercial service tool) (B).

Testing pressure: Refer to CO-28, "Radiator".

WARNING:

Never remove radiator cap when engine is hot. Serious burns may occur from high-pressure engine coolant escaping from radiator.

CAUTION:

Higher test pressure than specified may cause radiator damage.

NOTE:

In a case that engine coolant decreases, replenish radiator with engine coolant.

• If anything is found, repair or replace damaged parts.

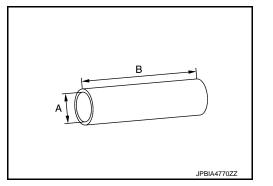
ENGINE COOLANT : Draining

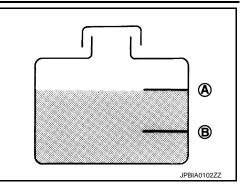
WARNING:

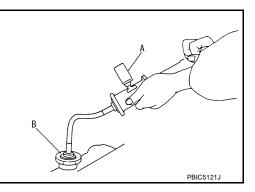
- Never remove radiator cap when engine is hot. Serious burns may occur from high-pressure engine coolant escaping from radiator.
- Wrap a thick cloth around the radiator cap. Slowly turn it a quarter of a turn to release built-up pressure. Then turn it all the way.
- 1. Remove engine under cover.
- 2. Connect drain hose. (Vehicle with no drain hose) NOTE:

Use a general-purpose hose with the dimensions shown in the figure.

- A : \phi 15 16 mm
- B : 145 mm







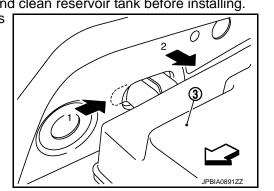
< PERIODIC MAINTENANCE >

- 3. Open radiator drain plug at the bottom of radiator, and then remove radiator cap.
 - A : Radiator drain plug hole

CAUTION:

Perform this step when engine is cold.

- When draining all of engine coolant in the system, open water drain plugs on cylinder block. Refer to <u>EM-91</u>, "<u>Exploded</u> <u>View</u>".
- 4. Remove reservoir tank if necessary, and drain engine coolant and clean reservoir tank before installing.
 - Move reservoir tank (3), and then remove it numerical order as shown in the figure.



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 Check drained engine coolant for contaminants such as rust, corrosion or discoloration. If contaminated, flush the engine cooling system. Refer to <u>MA-23. "ENGINE COOLANT : Flushing"</u>.

ENGINE COOLANT : Refilling

CAUTION:

- Before start working, turn off the automatic air conditioner and the blower motor.
- Do not put additive such as waterleak preventive, since it may cause cooling waterway clogging.
- When refilling use Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent in its quality mixed with water (distilled or demineralized). Refer to <u>MA-15, "FOR NORTH AMERICA : Fluids and</u> <u>Lubricants"</u> (For North America) or <u>MA-16, "FOR MEXICO : Fluids and Lubricants"</u> (For Mexico.)
- 1. Install reservoir tank if removed and radiator drain plug. CAUTION:

Be sure to clean drain plug and install with new O-ring.

Radiator drain plug: Refer to CO-17, "Exploded View".

- If water drain plugs on cylinder block are removed, close and tighten them. Refer to <u>EM-91, "Exploded</u> <u>View"</u>.
- 2. Check that each hose clamp has been firmly tightened.
- Remove air duct assembly, and move electric throttle control actuator to aside. Refer to <u>EM-28, "Exploded</u> N <u>View"</u> and <u>EM-30, "Exploded View"</u>.

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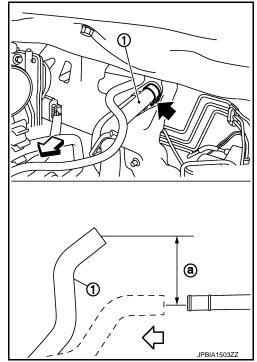
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< PERIODIC MAINTENANCE >

- 4. Disconnect heater hose (1) at the position (-) in the figure.

 - Lift up the heater hose end approximately 100 mm (3.94 in) (a) higher than the height at installation.



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5. Fill radiator (1) to specified level. CAUTION:

Never adhere the engine coolant to electronic equipments (alternator etc.).

- Pour engine coolant through engine coolant filler neck slowly of less than 2 ℓ (2-1/8 US qt, 1-3/4 lmp qt) a minute to allow air in system to escape.
- When engine coolant overflows disconnected heater hose, connect heater hose, and continue filling the engine coolant.

Engine coolant capacity (With reservoir tank at "MAX" level) Refer to CO-28, "Periodical Maintenance Specification".

- 6. Refill reservoir tank to "MAX" level line with engine coolant.
 - A : MAX
 - B : MIN

Reservoir tank engine coolant capacity (At "MAX" level)

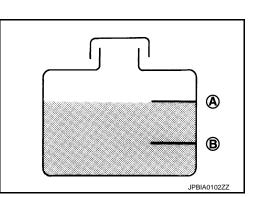
Refer to CO-28, "Periodical Maintenance Specification".

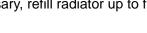
- 7. Install radiator cap.
- Install air duct assembly and electric throttle control actuator. Refer to <u>EM-28</u>, "<u>Exploded View</u>" and <u>EM-30</u>, "<u>Exploded View</u>".
- 9. Warm up engine until opening thermostat. Standard for warming-up time is approximately 10 minutes at 3,000 rpm.

• Check thermostat opening condition by touching radiator hose (lower) to see a flow of warm water. CAUTION:

Watch water temperature gauge so as not to overheat engine.

- 10. Stop the engine and cool down to less than approximately 50°C (122°F).
 - Cool down using fan to reduce the time.
 - If necessary, refill radiator up to filler neck with engine coolant.





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< PERIODIC MAINTENANCE >

CAUTION:

Never adhere the engine coolant to electronic equipments (alternator etc.). А 11. Refill reservoir tank to "MAX" level line with engine coolant. 12. Repeat steps 5 through 10 two or more times with radiator cap installed until engine coolant level no longer drops. В Check cooling system for leakage with engine running. 14. Warm up the engine, and check for sound of engine coolant flow while running engine from idle up to 3,000 rpm with heater temperature controller set at several position between "COOL" and "WARM". · Sound may be noticeable at heater unit. Repeat step 14 three times. 16. If sound is heard, bleed air from cooling system by repeating step 5 through 10 until engine coolant level D no longer drops. ENGINE COOLANT : Flushing INFOID:00000008738186 Ε Install reservoir tank if removed and radiator drain plug. 1. CAUTION: F Be sure to clean drain plug and install with new O-ring. Radiator drain plug : Refer to CO-17, "Exploded View". If water drain plugs on cylinder block are removed, close and tighten them. Refer to EM-91, "Exploded View". 2. Remove air duct assembly and move electric throttle control actuator to aside. Refer to EM-28, "Exploded Н View" and EM-30, "Exploded View". 3. Disconnect heater hose (1) at the position (\Leftarrow) in the figure. Æ <a> : Vehicle front Lift up the heater hose end approximately 100 mm (3.94 in) (a) higher than the height at installation. Κ M **a**) T N JPBIA1503ZZ 4 Fill radiator and reservoir tank with water and reinstall radiator cap.

- When engine coolant overflows disconnected heater hose, connect heater hose, and continue filling the engine coolant.
- Install air duct assembly and electric throttle control actuator. Refer to <u>EM-28, "Exploded View"</u> and <u>EM-</u> 30, "Exploded View".
- Run the engine and warm it up to normal operating temperature.
- 7. Rev the engine two or three times under no-load.
- 8. Stop the engine and wait until it cools down.
- Drain water from the system. Refer to MA-20, "ENGINE COOLANT : Draining". 9.

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< PERIODIC MAINTENANCE >

10. Repeat steps 1 through 9 until clear water begins to drain from radiator. RADIATOR CAP

RADIATOR CAP : Inspection

- Check valve seat of radiator cap.
 - A : Valve seat
 - B : Metal plunger

completely when released.

cap negative-pressure valve.

conditions of negative-pressure valve.

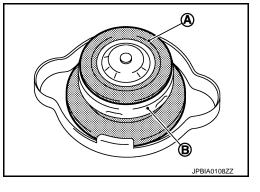
- Check that valve seat is swollen to the extent that the edge of the plunger cannot be seen when watching it vertically from the top.

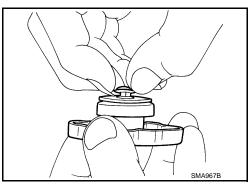
• Pull negative-pressure valve to open it, and check that it close

- Check that there is no dirt or damage on the valve seat of radiator

- Check that there are no unusualness in the opening and closing

- Check that valve seat has no soil and damage.

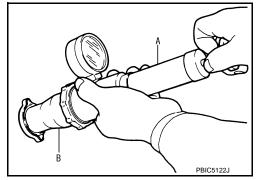




• Check radiator cap relief pressure.

Standard and Limit: Refer to CO-28, "Radiator".

- When connecting radiator cap to the radiator cap tester (commercial service tool) (A) and the radiator cap tester adapter (commercial service tool) (B), apply engine coolant to the cap seal surface.



• Replace radiator cap if there is an unusualness related to the above three.

When installing radiator cap, thoroughly wipe out the radiator filler neck to remove any waxy residue or foreign material.

RADIATOR

RADIATOR : Inspection

Check radiator for mud or clogging. If necessary, clean radiator as follows. CAUTION:

- Be careful not to bend or damage radiator fins.
- When radiator is cleaned without removal, remove all surrounding parts such as radiator cooling fan assembly and horns. Then tape harness and harness connectors to prevent water from entering.
- 1. Apply water by hose to the back side of the radiator core vertically downward.
- 2. Apply water again to all radiator core surfaces once per minute.
- 3. Stop washing if any stains no longer flow out from radiator.

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< PERIODIC MAINTENANCE >

- 4. Blow air into the back side of radiator core vertically downward.
 - Use compressed air lower than 490 kPa (5 kg/cm², 71 psi) and keep distance more than 30 cm (11.81 A in).
- 5. Blow air again into all the radiator core surfaces once per minute until no water sprays out.

FUEL LINES

FUEL LINES : Inspection

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

- A : Engine
- B : Fuel line
- C : Fuel tank

If necessary, repair or replace damaged parts.

AIR CLEANER FILTER

AIR CLEANER FILTER : Removal and Installation

REMOVAL

- 1. Push the tabs (A) of both ends of the air cleaner cover (1) into the inside (B).
- 2. Pull up the air cleaner cover forward (C) and remove it.

- 3. Remove the air cleaner filter (1) and holder (2) assembly from the air cleaner case.
- 4. Remove the air cleaner filter from the holder.

INSTALLATION Install in the reverse order of removal. ENGINE OIL

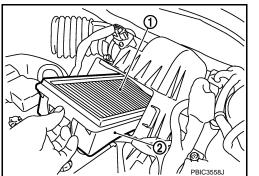
ENGINE OIL : Draining

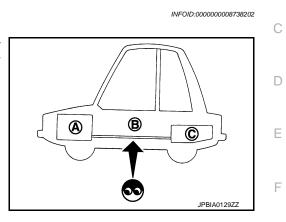
WARNING:

• Be careful not to get burn yourself, as engine oil may be hot.

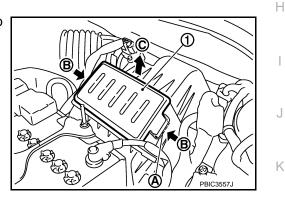
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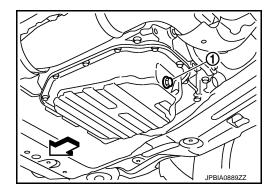
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< PERIODIC MAINTENANCE >

- Prolonged and repeated contact with used engine oil may cause skin cancer. Try to avoid direct skin contact with used engine oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. Warm up the engine, and check for engine oil leakage from engine components. Refer to <u>LU-5</u>, "Inspection".
- 2. Stop the engine and wait for 10 minutes.
- 3. Loosen oil filler cap.
- 4. Remove drain plug (1) and then drain engine oil.

<□ : Vehicle front



ENGINE OIL : Refilling

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 Install drain plug with new drain plug washer. Refer to <u>EM-36, "Exploded View"</u>. CAUTION: Because to clean drain plug and install with pow drain plug washer.

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

Tightening torque : Refer to EM-36, "Exploded View".

2. Refill with new engine oil.

Engine oil specification and viscosity: Refer to <u>MA-15, "FOR NORTH AMERICA : Fluids and Lubri-</u> <u>cants"</u> (Except for Mexico) or <u>MA-16, "FOR MEXICO : Fluids and Lubricants"</u> (for Mexico).

Engine oil capacity : Refer to LU-14, "Periodical Maintenance Specification".

CAUTION:

- The refill capacity depends on the engine oil temperature and drain time. Use these specifications for reference only.
- Always use oil level gauge to determine the proper amount of engine oil in engine.
- 3. Warm up the engine and check area around drain plug and oil filter for engine oil leakage.
- 4. Stop the engine and wait for 10 minutes.
- 5. Check the engine oil level. Refer to <u>LU-5, "Inspection"</u>.

OIL FILTER

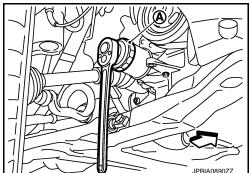
OIL FILTER : Removal and Installation

REMOVAL

- 1. Remove splash guard. Refer to EXT-22, "Exploded View".
- 2. Using oil filter wrench [SST: KV10115801 (J-38956)] (A), remove oil filter.

CAUTION:

- Oil filter is provided with relief valve. Use genuine NISSAN oil filter or equivalent.
- Be careful not to get burned when engine and engine oil may be hot.
- When removing, prepare a shop cloth to absorb any engine oil leakage or spillage.

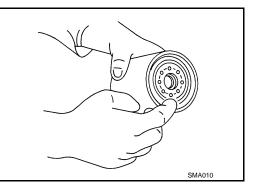


< PERIODIC MAINTENANCE >

- Never allow engine oil to adhere to drive belt.
- Completely wipe off any engine oil that adheres to engine and vehicle.

INSTALLATION

- 1. Remove foreign materials adhering to oil filter installation surface.
- Apply new engine oil to the oil seal contact surface of new oil filter.



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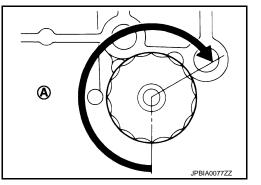
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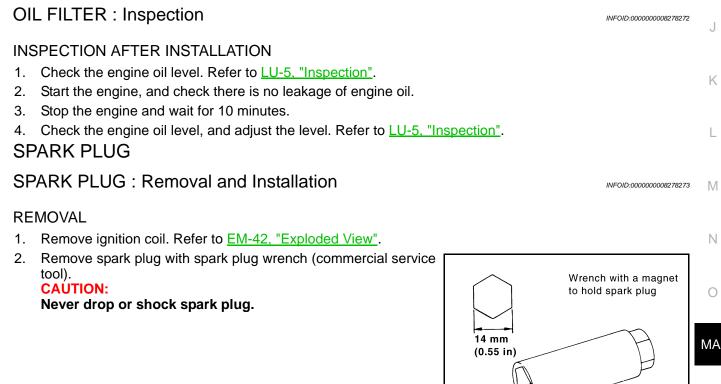
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3. Screw oil filter manually until it touches the installation surface, then tighten it by 2/3 turn (A). Or tighten to the specification.

Oil filter:

• : 17.6 N·m (1.8 kg-m, 13 ft-lb)



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Install in the reverse order of removal.

SPARK PLUG : Inspection

INSPECTION AFTER REMOVAL

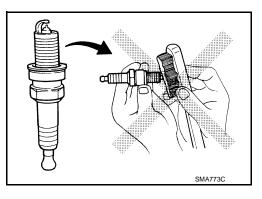
Use standard type spark plug for normal condition.

Spark plug (standard) : Refer to <u>EM-116, "Spark Plug"</u>.

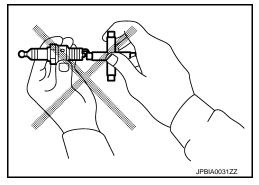
CAUTION:

- Never drop or shock spark plug.
- Never use 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 change intervals.



EVAP VAPOR LINES

EVAP VAPOR LINES : Inspection

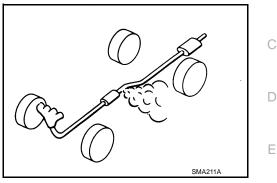
Except for Mexico, refer to <u>EC-462</u>, "Inspection". For Mexico, refer to <u>EC-801</u>, "Inspection". INFOID:000000008278274

CHASSIS MAINTENANCE EXHAUST SYSTEM

EXHAUST SYSTEM : Inspection

Check exhaust pipes, muffler, and mounting for improper attachment, leakage, cracks, damage or deterioration.

• If anything is found, repair or replace damaged parts.



CVT FLUID

CVT FLUID : Inspection

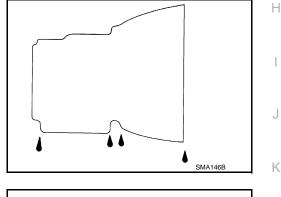
CHECKING CVT FLUID

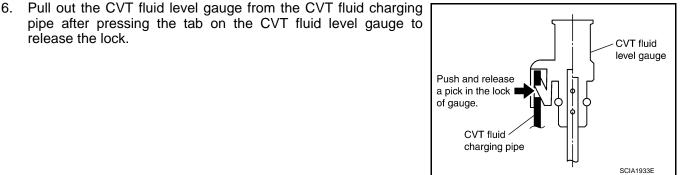
The fluid level should be checked with the fluid warmed up to 50 to 80°C (122 to 176°F). The fluid level check procedure is as follows:

- 1. Check for fluid leakage.
- 2. With the engine warmed up, drive the vehicle in an urban area. When ambient temperature is 20°C (68°F), it takes about 10 minutes for the CVT fluid to warm up to 50 to 80°C (122 to 176°F).
- 3. Park the vehicle on a level surface.
- Apply parking brake firmly.

release the lock.

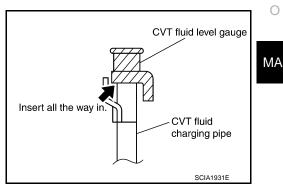
5. With engine at idle, while depressing brake pedal, shift selector lever throughout the entire shift range.





7. Wipe fluid off the CVT fluid level gauge. Insert the CVT fluid level gauge rotating 180° from the originally installed position, then securely push the CVT fluid level gauge until it meets the top end of the CVT fluid charging pipe. CAUTION:

When wiping away the CVT fluid level gauge, always use lint-free paper, not a cloth rag.





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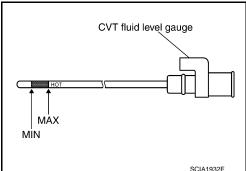
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< PERIODIC MAINTENANCE >

 Place the selector lever in "P" or "N" and check that the fluid level is within the specified range.
 CAUTION:

When reinstalling CVT fluid level gauge, insert it into the CVT fluid charging pipe and rotate it to the original installation position until securely locked.

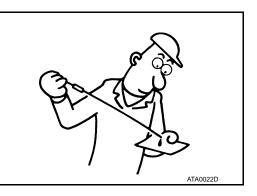


CVT FLUID CONDITION

Check CVT fluid condition.

- If CVT fluid is very dark or smells burned, check operation of CVT. Flush cooling system after repair of CVT.
- If CVT fluid contains frictional material (clutches, brakes, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of CVT. Refer to <u>TM-208</u>, "FLUID <u>COOLER : Exploded view</u>" (with fluid cooler), <u>TM-161</u>, "Cleaning".

Fluid status	Conceivable cause	Required operation
Varnished (viscous varnish state)	CVT fluid become degraded due to high temperatures.	Replace the CVT fluid and check the CVT main unit and the vehicle for malfunctions (wire harnesses, cool- er pipes, etc.)
Milky white or cloudy	Water in the fluid	Replace the CVT fluid and check for places where water is getting in.
Large amount of metal powder mixed in	Unusual wear of sliding parts within CVT	Replace the CVT fluid and check for improper operation of the CVT.



CVT FLUID : Changing

- 1. Remove drain plug from oil pan and then the CVT fluid.
- 2. Remove drain plug gasket from drain plug.
- 3. Install drain plug gasket to drain plug CAUTION:

Never reuse drain plug gasket.

- 4. Install drain plug to oil pan. Refer to TM-186. "Exploded View".
- 5. Fill CVT fluid from CVT fluid charging pipe to the specified level.

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: Refer to TM-221, "General Specification".

Fluid capacity

: Refer to TM-221, "General Specification".

CAUTION:

- Use only Genuine NISSAN CVT Fluid NS-2. Never mix with other fluid.
- Using CVT fluid other than Genuine NISSAN CVT Fluid NS-2 will deteriorate in driveability and CVT durability, and may damage the CVT, which is not covered by the warranty.
- When filling CVT fluid, take care not to scatter heat generating parts such as exhaust.
- Sufficiently shake the container of CVT fluid before using.
- Delete CVT fluid deterioration date with CONSULT after changing CVT fluid. Refer to <u>TM-46</u>, <u>"CONSULT Function (TRANSMISSION)"</u>.
- 6. With the engine warmed up, drive the vehicle in an urban area.
 - NOTE:

When ambient temperature is 20°C (68°F), it takes about 10 minutes for the CVT fluid to warm up to 50 to 80°C (122 to 176°F).

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< PERIODIC MAINTENANCE >

- 7. Check CVT fluid level and condition.
- 8. Repeat steps 1 to 5 if CVT fluid has been contaminated.

TRANSFER OIL

TRANSFER OIL : Inspection

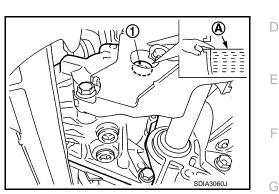
OIL LEAKAGE

Check transfer surrounding area (oil seal, drain plug, filler plug, and transfer case, etc.) for oil leakage.

OIL LEVEL

- Remove filler plug (1) and gasket. Then check that oil is filled up (A) from mounting hole for the filler plug.
- Before installing filler plug, set a new gasket. Install filler plug on transfer and tighten to the specified torque. Refer to <u>DLN-58</u>. <u>"Exploded View"</u>. CAUTION:

Never reuse gaskets.

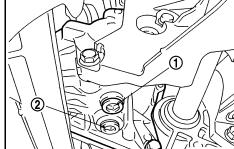


TRANSFER OIL : Draining

- 1. Run the vehicle to warm up the transfer unit sufficiently.
- Stop the engine and remove drain plug (1) and gaskets to drain the transfer oil. CAUTION:

Never remove tooth contact test hole plug (2).

 Before installing drain plug, set a new gasket. Install drain plug on transfer and tighten to the specified torque. Refer to <u>DLN-58</u>, <u>"Exploded View"</u>. CAUTION: Never reuse gaskets.



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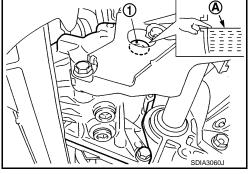
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TRANSFER OIL : Refilling

1. Remove filler plug (1) and gasket. Then fill oil up to mounting hole (A) for the filler plug.

Oil grade and viscosity

: Refer to <u>MA-15. "FOR</u> <u>NORTH AMERICA : Fluids</u> <u>and Lubricants"</u> (for <u>NORTH AMERICA), MA-16.</u> <u>"FOR MEXICO : Fluids and</u> <u>Lubricants"</u> (for MEXICO). : Refer to <u>DLN-81, "General</u> <u>Specifications"</u>.



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Oil capacity

CAUTION: Carefully fill the oil. (Fill up for approximately 3 minutes.)

- 2. Leave the vehicle for 3 minutes. Then check oil level again.
- Before installing filler plug, set a new gasket. Install filler plug on transfer and tighten to the specified torque. Refer to <u>DLN-58, "Exploded View"</u>.
 CAUTION:

Never reuse gasket.

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REAR PROPELLER SHAFT

REAR PROPELLER SHAFT : Inspection

NOISE

- Check the propeller shaft tube surface for dents or cracks. If damaged, replace propeller shaft assembly.
- If center bearing is noisy or damaged, replace propeller shaft assembly.

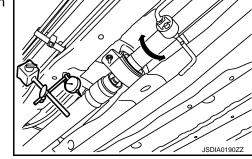
VIBRATION

If vibration is present at high speed, inspect propeller shaft runout first.

With a dial indicator, measure propeller shaft runout at runout measuring points by rotating final drive companion flange with hands.

Propeller shaft runout

: Refer to DLN-89, "Propeller Shaft Runout".



- Propeller shaft runout measuring point (Point "△").
 - : Vehicle front

Dimension

A: 501 mm (19.72 in) B: 445 mm (17.52 in)

- 2. If runout still exceeds specifications, separate propeller shaft at final drive companion flange or transfer companion flange; then change the phase between companion flange and propeller shaft by the one bolt hole at a time and install propeller shaft.
- Check runout again. If runout still exceeds specifications, replace propeller shaft assembly.
- 4. Check the vibration by driving vehicle.

REAR DIFFERENTIAL GEAR OIL

REAR DIFFERENTIAL GEAR OIL : Inspection

OIL LEAKAGE

Make sure that oil is not leaking from final drive assembly or around it.

OIL LEVEL

 Remove filler plug (1) and check oil level from filler plug mounting hole as shown in the figure.

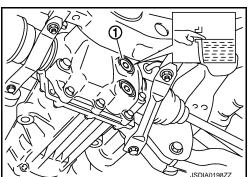
CAUTION:

Never start engine while checking oil level.

 Set a new gasket on filler plug and install it on final drive assembly. Refer to DLN-106, "Exploded View". CAUTION:

Never reuse gasket.

REAR DIFFERENTIAL GEAR OIL : Draining



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1. Stop engine.

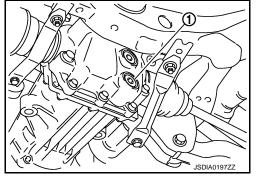
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< PERIODIC MAINTENANCE >

- 2. Remove drain plug (1) and drain gear oil.
- Set a new gasket on drain plug and install it to final drive assembly and tighten to the specified torque. Refer to <u>DLN-106</u>. <u>"Exploded View"</u>. CAUTION: Never reuse gasket.



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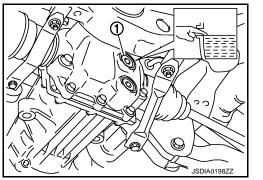
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REAR DIFFERENTIAL GEAR OIL : Refilling

1. Remove filler plug (1). Fill with new gear oil until oil level reaches the specified level near filler plug mounting hole.

Oil grade and viscosity

: Refer to <u>MA-15, "FOR</u> <u>NORTH AMERICA : Fluids</u> <u>and Lubricants" (for</u> <u>NORTH AMERICA), MA-16,</u> <u>"FOR MEXICO : Fluids and</u> <u>Lubricants" (for MEXICO).</u> : Refer to <u>DLN-128, "Gen-</u> <u>eral Specification"</u>.



Oil capacity

 After refilling oil, check oil level. Set a new gasket to filler plug, then install it to final drive assembly. Refer to <u>DLN-106, "Exploded View"</u>. CAUTION:

Never reuse gasket.

WHEELS

WHEELS : Adjustment

BALANCING WHEELS (ALUMINUM WHEEL)

Preparation Before Adjustment

Using releasing agent, remove double-faced adhesive tape from the road wheel. **CAUTION:**

- Be careful not scratch the road wheel during removal.
- After removing double-faced adhesive tape, wipe clean traces of releasing agent from the road wheel.

Wheel Balance Adjustment

- The details of the adjustment procedure are different for each model of wheel balancer. Therefore, refer to each instruction manual.
- If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting, select and adjust a drive-in weight mode suitable for road wheels.
- 1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
- 2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install in to the designated outer position of, or at the designated angle in relation to the road wheel.
 CAUTION:
 - Never install the inner balance weight before installing the outer balance weight.
 - Before installing the balance weight, be sure to clean the mating surface of the road wheel.

< PERIODIC MAINTENANCE >

a. Indicated unbalance value $\times 5/3$ = balance weight to be installed **Calculation example:** 23 g (0.81 oz) $\times 5/3$ = 38.33 g (1.35 oz) \Rightarrow 40 g (1.41 oz) bal-

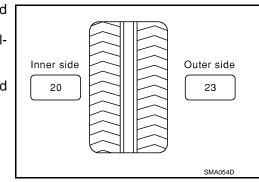
ance weight (closer to calculated balance weight value) **NOTE:**

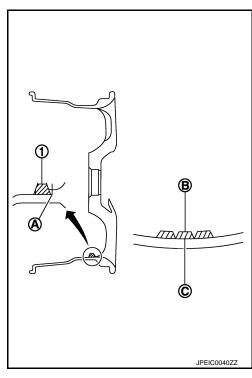
Note that balance weight value must be closer to the calculated balance weight value.

Example:

 $\begin{array}{l} 37.4 \Rightarrow 35 \text{ g} (1.23 \text{ oz}) \\ 37.5 \Rightarrow 40 \text{ g} (1.41 \text{ oz}) \end{array}$

- b. Installed balance weight in the position.
 - When installing balance weight (1) to road wheels, set it into the grooved area (A) on the inner wall of the road wheel as shown in the figure so that the balance weight center (B) is aligned with the tire balance machine indication position (angle) (C).
 - CAUTION:
 - Always use genuine NISSAN adhesion balance weights.
 - Balance weights are non-reusable; always replace with new ones.
 - · Never install three or more sheets of balance weight.





 c. If calculated balance weight value exceeds 50 g (1.76 oz), install two balance weight sheets in line with each other as shown in the figure.
 CAUTION:

Never install one balance weight sheet on top of another.

- 3. Start tire balance machine again.
- Install drive-in balance weight on inner side of road wheel in the tire balance machine indication position (angle).
 CAUTION:

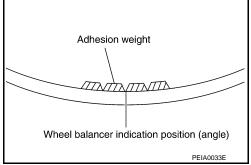
Never install three or more balance weight.

 Start the tire balance machine. Check that the inner and outer residual unbalance value is within the allowable unbalance value.
 CAUTION:

If either residual unbalance value exceeds limit, repeat installation procedures.

Allowable unbalance valueDynamic (At flange): Refer to WT-50, "Road Wheel".Static (At flange): Refer to WT-50, "Road Wheel".

BALANCING WHEELS (STEEL WHEEL)



< PERIODIC	MAINTENANCE >
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< PERIODIC MAINTENANCE >	_
Preparation Before Adjustment	
Remove balance weight from the road wheel. CAUTION:	
Be careful not to scratch the road wheel during removal.	
Wheel Balance Adjustment	
 The details of the adjustment procedure are different for each model of wheel balancer. Therefore, refer t each instruction manual. 	0
• If a tire balance machine has adhesion balance weight mode settings and drive-in weight mode setting	J,
select and adjust a drive-in weight mode suitable for steel wheels.	
 Set road wheel to wheel balancer, and then start wheel balancer. Install balance weight to road wheel according to the unbalance and position (angle) displayed on wheel 	-
balancer. CAUTION:	21
Always use genuine NISSAN balance weights.	
 Balance weights are non-reusable; always replace with new ones. Always use a plastic hammer when attaching the weight. 	
 Never install three or more balance weights on one side. 	
 Start the tire balance machine. Check that the inner and outer residual unbalance value is within th allowable unbalance value. 	e
CAUTION: If either residual unbalance value exceeds limit, repeat installation procedures.	
Allowable unbalance value	
Dynamic (At flange) : Refer to <u>WT-50, "Road Wheel"</u> .	
Static (At flange) : Refer to <u>WT-50, "Road Wheel"</u> .	
P Follow the maintenance schedule for tire rotation service intervals.]
When installing the wheel, tighten wheel nuts to the specified	
torque. Refer to <u>WT-44, "Exploded View"</u> .	
Do not include the T-type spare tire when rotating the tires.	
When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels	
from developing any distortion.	
Be careful not to tighten wheel nut at torque exceeding the criteria for preventing strain of disc rotor.	
Use NISSAN genuine wheel nuts for aluminum wheels.	
Perform the ID registration, after tire rotation. Refer to WT-7, "Work Procedure".	
BRAKE FLUID LEVEL AND LEAKS	
BRAKE FLUID LEVEL AND LEAKS : Inspection	87
If fluid level is extremely low, check brake system for leaks.	٦
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BRAKE LINES AND CABLES

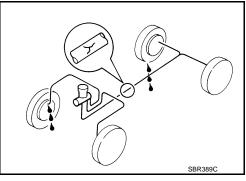
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< PERIODIC MAINTENANCE >

BRAKE LINES AND CABLES : Inspection

· Check brake fluid lines and parking brake cables for improper attachment, leaks, chafing, abrasions, deterioration, etc.



BRAKE FLUID

BRAKE FLUID : Changing

- Drain brake fluid from each bleed valve. 1.
- Refill until new brake fluid comes out from each bleed valve. 2. Use same procedure as in bleeding hydraulic system to refill brake fluid.

Refer to BR-11, "Refilling".

- Refill with recommended brake fluid. Refer to MA-15, "FOR NORTH AMERICA : Fluids and Lubricants"(FOR NORTH AMERICA), MA-16, "FOR MEXICO : Fluids and Lubricants" (FOR MEXICO).
- Never reuse drained brake fluid.
- · Be careful not to splash brake fluid on painted areas.

DISC BRAKE

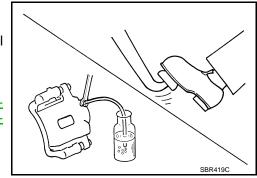
DISC BRAKE : Inspection

DISC ROTOR

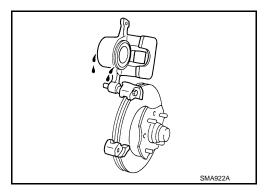
Check condition, wear, and damage.

CALIPER

• Check for leakage.



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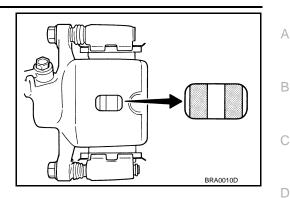
BRAKE PAD

Revision: 2012 June

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< PERIODIC MAINTENANCE >

• Check for wear or damage.



DISC BRAKE : Front Disc Brake

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	Item	Limit
Brake pad	Wear limit thickness	2.0 (0.079)
	Wear limit thickness	24.0 (0.945)
Disc rotor	Thickness variation (measured at 8 positions)	0.020 (0.0008)
Runou	Runout limit (with it attached to the vehicle)	0.035 (0.0014)

DISC BRAKE : Rear Disc Brake

Unit: mm (in)

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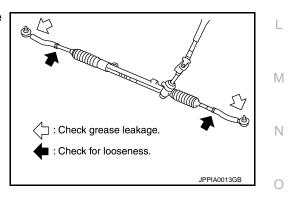
Item Limit Brake pad Wear limit thickness 1.5 (0.059) Wear limit thickness 14.0 (0.551) Disc roter			Unit: mm (in)	Н
Wear limit thickness 14.0 (0.551)		Item	Limit	
	Brake pad	Wear limit thickness	1.5 (0.059)	
Disc rotor Thickness variation (measured at 8 positions) 0.020 (0.0008)		Wear limit thickness	14.0 (0.551)	
	Disc rotor	Thickness variation (measured at 8 positions)	0.020 (0.0008)	
Runout limit (with it attached to the vehicle)0.070 (0.0028)		Runout limit (with it attached to the vehicle)	0.070 (0.0028)	I

STEERING GEAR AND LINKAGE

STEERING GEAR AND LINKAGE : Inspection

STEERING GEAR

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



STEERING LINKAGE

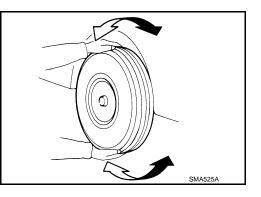
Check ball joint, dust cover and other component parts for looseness, wear, damage and grease leakage. AXLE AND SUSPENSION PARTS

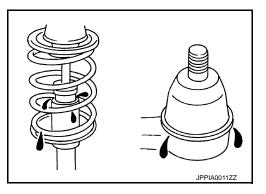
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AXLE AND SUSPENSION PARTS : Inspection

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

- Shake each wheel to check for excessive play.
- Check wheel bearings for smooth operation.
- 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.

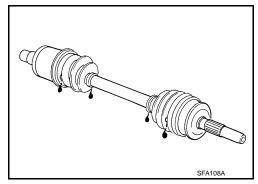




DRIVE SHAFT

DRIVE SHAFT : Inspection

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



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BODY MAINTENANCE A LOCKS, HINGES AND HOOD LATCH More and the point of the point
LOCKS, HINGES AND HOOD LATCH Lubricating B WITH INTELLIGENT KEY SYSTEM C For hood and hood lock illustration. C • Hood: Refer to DLK-199, "HOOD ASSEMBLY : Exploded View". D • Front door and front door lock illustration. D • Front door and front door lock illustration. D • Front door Refer to DLK-213, "DOOR ASSEMBLY : Exploded View". D • Front door lock: Refer to DLK-223, "DOOR LOCK : Exploded View". E • Rear door: Refer to DLK-220, "BACK DOOR ASSEMBLY : Exploded View". E • Rear door lock: Refer to DLK-220, "BACK DOOR ASSEMBLY : Exploded View". E • Rear door lock: Refer to DLK-220, "BACK DOOR ASSEMBLY : Exploded View". E • Fornt door lock: Refer to DLK-220, "BACK DOOR ASSEMBLY : Exploded View". F • Back door and back door lock illustration. B • Back door lock: Refer to DLK-327, "HOOD LOCK CONTROL : Exploded View". F • Hood ick Refer to DLK-367, "HOOD ASSEMBLY : Exploded View". F • Front door Refer to DLK-367, "HOOD ASSEMBLY : Exploded View". F • Front door and front door lock illustration. H • Front door Refer to DLK-363, "DOOR ASSEMBLY : Exploded View". F • Front door Refer to DLK-363, "DOOR LOCK : Ex
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 Back door: Refer to <u>DLK-388, "BACK DOOR ASSEMBLY : Exploded View"</u>. Back door lock: Refer to <u>DLK-408, "DOOR LOCK : Exploded View"</u>. SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS : Inspection <i>INFOID:00000008278297</i> For front seat belt illustration. Refer to <u>SB-7, "SEAT BELT RETRACTOR : Exploded View"</u>.
SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS : Inspection
CAUTION:
• After any collision, inspect all seat belt assemblies, including retractors and other attached hard- wares (I.e. anchor bolt, guide rail set). Nissan recommends to replace all seat belt assemblies in use during a collision, unless not damaged and properly operating after minor collision.
Also inspect seat belt assemblies not in use during a collision, and replace if damaged or improperly operating. N Seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal colli-
 sion where the driver and passenger air bags are deployed. If any component of seat belt assembly is questionable, do not repair.
 Replace as seat belt assembly. If webbing is cut, frayed, or damaged, replace belt assembly.
Never oil tongue and buckle.
For details, refer to <u>SB-5, "SEAT BELT RETRACTOR : Inspection"</u> , <u>SB-10, "SEAT BELT RETRACTOR :</u> <u>Inspection"</u> in SB section. • Check anchors for loose mounting
 Check belts for damage Check retractor for smooth operation Check function of buckles and tongues when buckled and released

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

DRIVE BELTS

DRIVE BELTS : Drive belt

DRIVE BELT

Tension of drive belt

Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.

ENGINE COOLANT

ENGINE COOLANT : Periodical Maintenance Specification

ENGINE COOLANT CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

INFOID:000000008738206

INFOID:000000008278300

Engine coolant capacity (With reservoir tank at "MAX" level)	7.3 (7-3/4, 6-3/8)
Reservoir tank	0.75 (3/4, 5/8)

ENGINE OIL

ENGINE OIL : Periodical Maintenance Specification

ENGINE OIL CAPACITY (APPROXIMATE)

		Unit: ℓ (US qt, Imp qt)
Drain and refill	With oil filter change	4.6 (4-7/8, 4)
	Without oil filter change	4.3 (4-1/2, 3/4)
Dry engine (Overhaul)		5.4 (5-3/4, 4-3/4)

SPARK PLUG

SPARK PLUG : Spark Plug

SPARK PLUG

Unit: mm (in)

INFOID:000000008278301

Make	NGK
Standard type	DILKAR6A-11
Spark plug gap (Nominal)	1.1 (0.043)

ROAD WHEEL

ROAD WHEEL : Road Wheel

INFOID:000000008278302

ALUMINUM WHEEL

Iten	n	Limit
Runout	Axial runout	Less than 0.3 mm (0.012 in)
Kullout	Radial runout	
	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)
Allowable unbalance	Static (At flange)	Less than 10 g (0.35 oz)

STEEL WHEEL

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

	Item	Limit	4
Runout	Axial runout (Average)	Less than 0.8 mm (0.031 in)	
Runout	Radial runout (Average)	Less than 0.5 mm (0.020 in)	
	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)	E
Allowable unbalance	Static (At flange)	Less than 10 g (0.35 oz)	
	ERGENCY)		C
	Item	Limit	(
		Limit Less than 1.2 mm (0.047 in)	

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