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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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 includes seat belt switch inputs and 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 SR and SB section of this Service Manual.

WARNING:

- 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.
- 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 SR 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 harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

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PREPARATION

PREPARATION

Special Service Tool

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Tool number (Kent-Moore No.) Tool name		Description
KV10115801 (J-38956) Oil filter cap wrench	a P	Removing and installing oil filter a: 64.3 mm (2.531 in)
KV991J0010 (J-23688) Engine coolant refractometer	WEIA0539E	Checking concentration of ethylene glycol in engine coolant
KV991J0070 (J-45695) Coolant refill tool	IMAO53	Filling cooling system

Commercial Service Tool

INFOID:0000000007359681

Tool name		Description
Power tool		Loosening bolts, nuts and screws
	PIIB1407E	
Spark plug wrench		Removing and installing spark plug
	16 mm (0.63 in)	
	S-NT047	

GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

PERIODIC MAINTENANCE

GENERAL MAINTENANCE

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

these 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. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.					
Wheel nuts	Wheel nuts When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.					
Tire rotation	Tires should be rotated every 7,500 km (12,000 miles).	MA-32, "WHEELS : Ad- justment"				
Tire Pressure Monitor- ing System (TPMS) transmitter compo- nents	WT-8, "System Diagram"					
Wheel alignment and balance	MA-32, "WHEELS : Ad- justment", FSU-6, "Front Wheel Alignment"					
Windshield	Vindshield 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	MA-38. "LOCKS. HING- ES AND HOOD LATCH: Lubricating Locks. Hing- es and Hood Latches"					
Lamps	EXL-138, "HEADLAMP : Aiming Adjustment"					

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 chimes	Make sure that all warning lamps and chimes are operating properly.	WCS-18, "Component Function Check"
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. 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)	ST-28, "Steering Wheel"

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GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

Item		Reference page			
Seats	Check seat position controls such as seat adjusters, seat back 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 seat backs.				
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.	SB-8, "Seat Belt Inspetion", MA-38, "SEAT BELT, BUCKLES, RETRACTORS, ANCHOR AND ADJUSTERS: Checking Seat Belts, Buckles, Retractors, Alchors and Adjusters"			
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	·				
Clutch pedal	Make sure the pedal operates smoothly and check that it has proper free play.	CL-6, "On-Vehicle In- spection and Adjust- ment"			
Parking brake	MA-34, "BRAKE LINES AND CABLES : Check ing Brake Line and Ca bles"				
Automatic transmis- sion "Park" mecha- nism	Check that the lock release button on the shift selector operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the shift selector in the "P" (Park) position without applying the brakes.	_			

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	_					
Engine coolant level	Check the coolant level when the engine is cold.	<u>CO-10</u>				
Radiator and hoses	adiator 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-34				
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 belt	Make sure that no belt is frayed, worn, cracked or oily.	<u>MA-15</u>				
Engine oil level	Check the level on the dipstick after parking the vehicle on level ground and turning off the engine.	<u>LU-7</u>				
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-36				
Automatic transmis- sion fluid level	Check the level on the dipstick after putting the selector lever in P (Park) with the engine idling.	MA-25				
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-25</u>				

GENERAL MAINTENANCE

< PERIODIC MAINTENANCE >

Item	rem em			
Underbody	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.	_		

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PERIODIC MAINTENANCE

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 or time intervals, whichever comes first.

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	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-8</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 or using a car-top carrier. 	Chassis and Body Maintenance	MA-8
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-8</u>
Scriedule 2		Chassis and Body Maintenance	<u>MA-8</u>

Maintenance for off-road driving (4WD only)

After driving the vehicle off-road through sand, mud, or water; more frequent maintenance may be required for the following items:

- ▲ Brake pads and rotors
- ▲ Brake lines and hoses
- ▲ Differential, transfer gear oil and automatic transmission fluid or manual transmission fluid
- ▲ Steering linkage
- ▲ Propeller shaft and drive shafts
- ▲ Engine air cleaner filter
- ▲ In-cabin microfilters
- ▲ Clutch housing (Check water entry)

Schedule 1 INFOID:000000007359684

EMISSION CONTROL SYSTEM MAINTENANCE

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever 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	18.7 5 (30) 15	22.5 (36) 18	26.2 5 (42) 21	30 (48) 24	Reference Section - Page or - Content Title
Drive belts	NOTE (1)									<u>MA-15</u>
Air cleaner filter	NOTE (2)								[R]	MA-19
EVAP vapor lines									*	MA-23
Fuel lines									*	<u>MA-18</u>
Fuel filter	NOTE (3)									_
Engine coolant*	NOTE (4)									<u>MA-16</u>
Engine oil		R	R	R	R	R	R	R	R	<u>MA-19</u>
Engine oil filter		R	R	R	R	R	R	R	R	<u>MA-20</u>
Spark plugs (Iridium-tipped type)		Replace every 105,000 miles (168,000 km).			MA-22					
Intake and exhaust valve clearance*	NOTE (5)									EM-130

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< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION	MAINTENANCE OPERATION			MAINT	ENANG	CE INTE	RVAL			
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.2 5 (66) 33	45 (72) 36	48.7 5 (78) 39	52.5 (84) 42	56.2 5 (90) 45	60 (96) 48	Reference Section - Page or - Content Title
Drive belts	NOTE (1)								l*	<u>MA-15</u>
Air cleaner filter	NOTE (2)								[R]	<u>MA-19</u>
EVAP vapor lines									I *	MA-23
Fuel lines									I *	<u>MA-18</u>
Fuel filter	NOTE (3)									_
Engine coolant*	NOTE (4)									<u>MA-16</u>
Engine oil		R	R	R	R	R	R	R	R	<u>MA-19</u>
Engine oil filter		R	R	R	R	R	R	R	R	MA-20
Spark plugs (Iridium-tipped type)		Replace every 105,000 miles (168,000 km).					MA-22			
Intake and exhaust valve clearance*	NOTE (5)									EM-130

- (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 tensioner reading reaches the maximum limit.
- (2) If operating mainly in dusty conditions, more frequent maintenance may be required.
- (3) Maintenance-free item. For service procedures, refer to the 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.

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 manufacturer'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.

- (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			MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	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 and cables					I				I	MA-34
Brake fluid					R				R	MA-34
Brake pads and rotors			I		I		I		I	MA-34
Automatic transmission fluid and manual transmission fluid	NOTE (1)				I				I	MA-25
Transfer fluid and front final drive oil	NOTE (2)				I				I	MA-30, MA-28

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< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION			MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	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
Rear final drive oil	NOTE (2)				I				I	MA-30 (C200) MA-31 (M226)
Steering gear, linkage, axle, and suspension parts			I		1		I		Ι	MA-36, MA-35
Tire rotation	NOTE (3)									MA-32
Drive shaft boots and propeller shaft (4WD)			I		I		I		I	MA-29
Exhaust system			I		I		I		I	MA-25
In-cabin microfilter					R				R	MA-24

MAINTENANCE OPERATION				MAINT	ENANC	CE INTE	RVAL			Reference
Perform at number of miles, kilometers or months, whichever 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 and cables					I				_	MA-34
Brake fluid					R				R	MA-34
Brake pads and rotors			I		I		I		Ι	MA-34
Automatic transmission fluid and manual transmission fluid	NOTE (1)				I				_	MA-25
Transfer fluid and front final drive oil	NOTE (2)				I				_	MA-30, MA-28
Rear final drive oil	NOTE (2)				I				Ι	MA-30 (C200) MA-31 (M226)
Steering gear, linkage, axle, and suspension parts			I		I		I		-	MA-36, MA-35
Tire Rotation	NOTE (3)									MA-32
Drive shaft boots and propeller shaft (4WD)			I		I		I		I	MA-29
Exhaust system			I		I		I		I	MA-25
In-cabin microfilter					R				R	MA-24

⁽¹⁾ If towing a trailer, using 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. Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Matic J ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NISSAN new vehicle limited warranty.

Schedule 2

EMISSION CONTROL SYSTEM MAINTENANCE

⁽²⁾ If towing a trailer, or using 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.

< PERIODIC MAINTENANCE >

	Abbreviations: F	R = Repla	ace. I=	= Inspec	t. Correc	ct or repla	ace if ne	ecessary.	[]: At tl	ne mileage intervals only	
MAINTENANCE OPERATION					Reference Section -						
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	Page or - Content Ti- tle	
Drive belts	NOTE (1)								*	<u>MA-15</u>	
Air cleaner filter					[R]				[R]	<u>MA-19</u>	
EVAP vapor lines					I *				*	MA-23	
Fuel lines					 *				*	<u>MA-18</u>	
Fuel filter	NOTE (2)									_	
Engine coolant*	NOTE (3)									<u>MA-16</u>	
Engine oil		R	R	R	R	R	R	R	R	<u>MA-19</u>	
Engine oil filter		R	R	R	R	R	R	R	R	<u>MA-20</u>	
Spark plugs (Iridium-tipped type)			Replace every 105,000 miles (168,000 km).						MA-22		
Intake and exhaust valve clearance*	NOTE (4)									EM-130	

⁽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 tensioner reading reaches the maximum limit.

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 manufacturer'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.

(4) Periodic maintenance is not required. However, if valve noise increases, inspect valve clearance.

CHASSIS AND BODY MAINTENANCE

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

MAINTENANCE OPERATION				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 and cables			I		I		I		I	MA-34
Brake fluid					R				R	MA-34
Brake pads and rotors			I		I		I		I	MA-34
Automatic transmission fluid and manual transmission fluid	NOTE (1)		I		I		I		I	MA-28
Transfer fluid and front final drive oil			I		I		I		I	MA-30, MA-28
Rear final drive oil			I		I		ı		ı	MA-30 (C200) MA-31 (M226)

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

⁽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.

^{*} 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.

< PERIODIC MAINTENANCE >

MAINTENANCE OPERATION			MAINTENANCE INTERVAL							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
Steering gear, linkage, axle, and suspension parts.					I				_	MA-36, MA-35
Tire rotation	NOTE (2)									MA-32
Drive shaft boots and propeller shaft (4WD)			I		I		I		Ι	MA-29
Exhaust system					I				I	MA-25
In-cabin microfilter			R		R		R		R	MA-24

⁽¹⁾ Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Matic J ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NIS-SAN new vehicle limited warranty.

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

RECOMMENDED FLUIDS AND LUBRICANTS

< PERIODIC MAINTENANCE >

RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

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Description			Сар	acity (Approxim	ate)	Recommended Fluids/Lubricants		
Description			Metric	US measure	Imp measure	Recommended Fidius/Lubricants		
Fuel			80 <i>l</i>	21-1/8 gal	17-5/8 gal	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91) *7		
Engine oil Drain and refill With oil filter cha		change	5.1 ℓ	5-3/8 qt	4-1/2 qt			
		ilter change	4.8 ℓ	5-1/8 qt	4-1/4 qt	 Engine oil with API Certification Mark * Viscosity SAE 5W-30 		
Dry engine (engi	ne overhaul)		6.3 ℓ	6-5/8 qt	5-1/2 qt			
Cooling system (with reservoir at	t "MAX" level)		10.2 ℓ	10-3/4 qt	9 qt	Pre-diluted Genuine NISSAN Long Life Antifreeze/ Coolant (blue) or equivalent		
Automatic transmission fluid (ATF)		ATF)	10.3 ℓ	10-7/8 qt	9-1/8 qt	Genuine NISSAN Matic S ATF *2		
Manual transmission (MT)		4WD	4.18 <i>Q</i>	4-3/8 pt	3-5/8 pt	Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 or API GL- 4, Viscosity SAE 75W-85		
C20		C200	1.6 ℓ	3-3/8 pt	2-7/8 pt	API GL-5 synthetic gear oil, Viscosity SAE 75W-90 *8		
Rear final drive oil		M226	2.01 ℓ	4-1/4 pt	3-1/2 pt	Genuine NISSAN differential oil synthetic 75W-140 or API GL-5 synthetic gear oil, Viscosity SAE 75W-140 *8		
Transfer fluid		TX15B	2.0 ℓ	2-1/8 qt	1-3/4 qt	Genuine NISSAN Matic D ATF recommended *9		
Front final drive oil		R180A	0.85 ℓ	1-3/4 pt	1-1/2 pt	 Genuine NISSAN Differential Oil Hy- poid Super GL-5 80W-90 or API GL-5 Viscosity SAE 80W-90 *6 		
Power steering f	luid (PSF)	•	1.0 ℓ	2-1/8 pt	1-3/4 pt	Genuine NISSAN PSF or equivalent *3		
Brake and clutch fluid		and clutch fluid		nd clutch fluid —		_	_	Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent, DOT 3 (US FMVSS No. 116) *4
Multi-purpose grease			_	_	_	NLGI No. 2 (lithium soap base)		
Windshield washer fluid		hield washer fluid		1-1/4 gal	1 gal	Genuine NISSAN Windshield Washer Concentrate Cleaner & Anti-freeze or equivalent		
A/C system refrigerant		n refrigerant (1.54 ± 0.11 lb	1.54 ± 0.11 lb	HFC-134a (R134a) *5		
A/C system oil			180 m ℓ	6.1 fl oz	6.3 fl oz	A/C System Oil Type R (DH-PR) *5		

^{*1:} For further details, refer to MA-14, "SAE Viscosity Number".

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^{*2:} If Genuine NISSAN Matic S ATF is not available, Genuine NISSAN Matic J ATF may also be used. Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Genuine NISSAN Matic J ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the NISSAN new vehicle limited warranty.

^{*3:} DEXRONTM VI type ATF may also be used.

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

^{*5:} For further details, see "Air conditioner Specification Label".

^{*6:} For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 0° C (32° F).

^{*7:} For further details, refer to GI-26, "Precaution for Fuel".

^{*8:} See a NISSAN dealer for service for synthetic oil.

^{*9:} Using automatic transmission fluid other than Genuine NISSAN Matic D ATF will cause deterioration in driveability and transfer durability and may damage the transfer, which is not covered by the NISSAN new vehicle limited warranty.

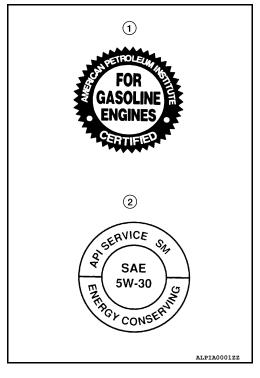
RECOMMENDED FLUIDS AND LUBRICANTS

< PERIODIC MAINTENANCE >

SAE Viscosity Number

INFOID:0000000007359687

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 (2). These oils have the API certification mark (1) 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.



Engine Coolant Mixture Ratio

INFOID:0000000007359688

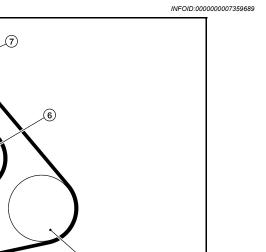
The engine cooling system is filled at the factory with a high-quality, long life, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors. Therefore, additional cooling system additives are not necessary.

CAUTION:

When adding or replacing coolant, be sure to use only 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 manufacturer'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.

DRIVE BELT

DRIVE BELT : Exploded View



- 1. Drive belt
- Crankshaft pulley
- Idler pulley

- 2. Power steering oil pump pulley
- A/C compressor

(4)

- 8. Drive belt auto-tensioner
- Generator pulley

(5)

Cooling fan pulley

DRIVE BELT : Checking Drive Belts

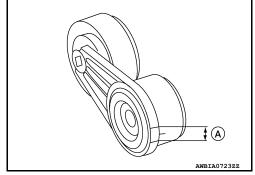
WARNING:

Be sure to perform when the engine is stopped.

- 1. Remove air duct and resonator assembly when inspecting drive belt. Refer to <u>EM-24, "Removal and Installation"</u>.
- 2. Make sure that the auto-tensioner indicator is within the allowable working range (A) as shown.

(1)

- Visually check entire belt for wear, damage or cracks.
- 4. If the indicator is out of allowable working range or drive belt is damaged, replace the drive belt. Refer to EM-13. "Removal and Installation".



DRIVE BELT : Adjustment

There is no manual drive belt tension adjustment. The drive belt tension is automatically adjusted by the drive belt auto-tensioner.

ENGINE COOLANT

ENGINE COOLANT : System Inspection

INFOID:0000000007830419

INFOID:0000000007359691

WARNING:

- Never remove the radiator cap when the engine is hot. Serious burns could occur from high pressure coolant escaping from the radiator.
- Wrap a thick cloth around the cap. Slowly push down and turn it a quarter turn to allow built-up pressure to escape. Carefully remove the cap by pushing down and turning it all the way.

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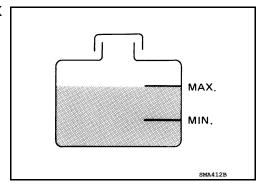
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CHECKING RESERVOIR LEVEL

- Check if the reservoir tank coolant level is within MIN to MAX range when the engine is cool.
- · Adjust coolant level if it is too much or too little.



ENGINE COOLANT: Changing Engine Coolant

INFOID:0000000007359692

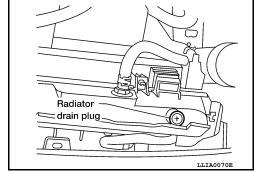
WARNING:

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

DRAINING ENGINE COOLANT

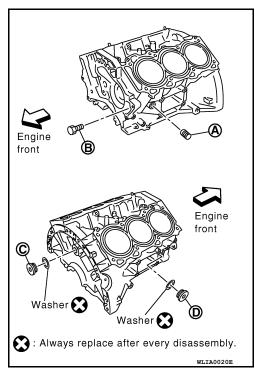
- 1. Turn ignition switch ON and set temperature control lever all the way to HOT position or the highest temperature position. Wait 10 seconds and turn ignition switch OFF.
- Remove the engine under cover. Refer to EXT-15, "Removal and Installation".
- Open the radiator drain plug at the bottom of the radiator, and remove the reservoir cap. This is the only step required when partially draining the cooling system (radiator only).
 CAUTION:

Do not to allow the coolant to contact the drive belts.



4. When draining all of the coolant in the system for engine removal or repair, it is necessary to drain the cylinder block. Remove the cylinder block drain plugs (A), (B), (C), (D) and block heater (if equipped), to drain the cylinder block as shown. NOTE:

For Canada, the (D) cylinder block drain plug as shown, is not a cylinder block drain plug but a block heater.

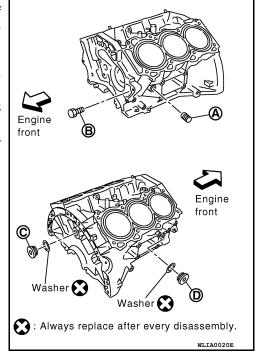


< PERIODIC MAINTENANCE >

- 5. Remove the reservoir tank to drain the engine coolant, then clean the reservoir tank before installing it.
- Check the drained coolant for contaminants such as rust, corrosion or discoloration.If the coolant is contaminated, flush the engine cooling system. Follow the "Flushing Cooling System" procedure.

REFILLING ENGINE COOLANT

- Close the radiator drain plug. Install the reservoir tank, cylinder block drain plugs (A), (B), (C), (D) and block heater (if equipped), 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 (A), (B), (C), (D). Use Genuine High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".
 - Tighten each plug to the specified torque. Refer to <u>EM-103</u>, "<u>Disassembly and Assembly</u>".



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- 2. 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.
- Remove the vented reservoir cap and replace it with a non-vented reservoir cap before filling the cooling system.
- 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.

Tool number : KV991J0070 (J-45695)

- 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 recommended coolant or equivalent. Refer to MA-13, "Fluids and Lubricants".

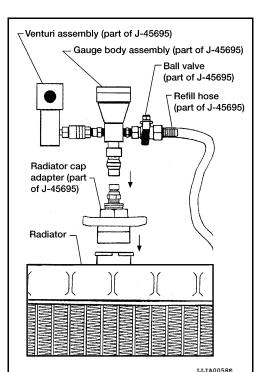
Cooling system capacity : Refer to MA-13, "Fluids and Lubricants".

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

Compressed air : 549 - 824 kPa (5.6 - 8.4 kg/cm², supply pressure 80 - 119 psi)

CAUTION:

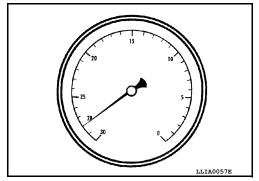
The compressed air supply must be equipped with an air dryer.



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< PERIODIC MAINTENANCE >

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



- 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.

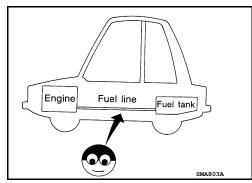
- 11. Remove the Tool from the radiator neck opening and install the radiator cap.
- 12. Remove the non-vented reservoir cap.
- 13. Fill the cooling system reservoir tank to the specified level. Run the engine to warm up the cooling system and top up the system as necessary before installing the vented reservoir cap.
- 14. Install the engine under cover.

FUEL LINES

FUEL LINES: Checking Fuel Line

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

If necessary, repair or replace damaged parts.



FUEL FILTER

FUEL FILTER: Changing Fuel Filter

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The fuel filter is part of the fuel level sensor unit, fuel filter and fuel pump assembly. Refer to <u>FL-11</u>, "Removal and Installation".

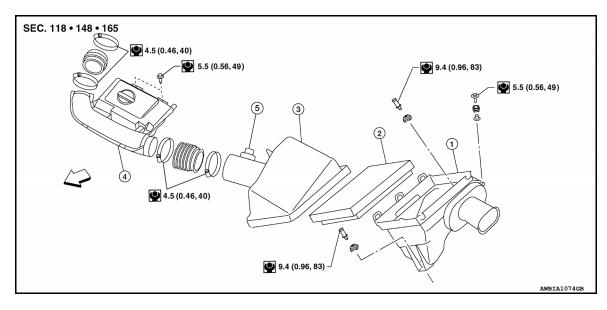
WARNING:

Before replacing the fuel filter, release the fuel pressure from the fuel system. Refer to <u>EC-491, "Fuel Pressure Check"</u>.

AIR CLEANER FILTER

AIR CLEANER FILTER: Exploded View

INFOID:0000000007359695



- Air cleaner case (lower)
- Air duct and resonator
- 2. Air cleaner filter
- 5. MAF/IAT sensor

- Air cleaner case (upper)
- <□ Front

AIR CLEANER FILTER: Removal and Installation

REMOVAL

- 1. Remove the engine room cover (if equipped).
- Disconnect air duct and resonator from the air cleaner case (upper).
- Disconnect MAF/IAT sensor.
- Unhook clips, and lift air cleaner case (upper).
- Remove air cleaner filter.

INSTALLATION

Installation is in the reverse order of removal.

ENGINE OIL

ENGINE OIL: Inspection

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OIL LEVEL

- Before starting the engine make sure the vehicle is parked on a flat and level surface, then check the oil level. If the engine is already running, turn it off and allow 10 minutes before checking.
- Pull out oil level gauge and wipe clean.
- · Insert oil level gauge.
- Check that the oil level is within the low (L) and high (H) range as indicated on the dipstick.
- If the engine oil level is out of range, add oil as necessary. Refer to MA-13, "Fluids and Lubricants".

CAUTION:

Do not overfill the engine with oil.

ENGINE OIL: Changing Engine Oil

Overfull range PBIC2823E

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WARNING:

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

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- 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 the engine, and check for any oil leaks.
- 2. Stop the engine and wait for at least 10 minutes.
- Remove the oil drain plug and oil filler cap to drain the old oil.
- 4. Install a new washer on the oil drain plug, then install the oil drain plug in the oil pan.

Oil drain plug : Refer to EM-34, "Removal and Installation".

CAUTION:

Clean the drain plug and install with a new washer.

5. Refill the engine with new specified engine oil.

Oil grade and viscosity : Refer to MA-13, "Fluids and Lubricants".

Oil capacity : Refer to MA-13, "Fluids and Lubricants".

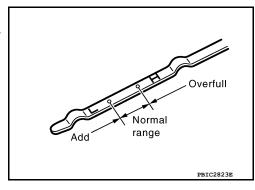
CAUTION:

The refill capacity depends on the oil temperature and drain time. Use the "Refill oil capacity" values as a reference and check the oil level using the dipstick when filling the engine with oil.

- 6. Warm up the engine and check the area around the drain plug and oil filter for any oil leaks.
- 7. Stop the engine and wait for more than 10 minutes.
- 8. Check the oil level using the dipstick as shown. Add oil as necessary and install the oil filler cap. Refer to MA-19, "ENGINE OIL: Inspection".

CAUTION:

Do not overfill the engine with oil.



OIL FILTER

OIL FILTER: Removal and Installation

INFOID:0000000007359699

REMOVAL

- Remove the engine under cover acess door. Refer to <u>EXT-15</u>, "Removal and Installation".
- 2. Drain engine oil. Refer to LU-8, "Changing Engine Oil".
- Remove the oil filter using Tool as shown.

Tool number : KV10115801 (J-38956)

WARNING:

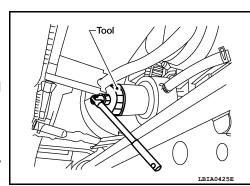
Be careful not to burn yourself, as the engine and engine oil may be hot.

CAUTION:

- Oil filter is equipped with a pressure relief valve.
- Use Genuine NISSAN Oil Filter or equivalent.
- When removing, prepare a shop cloth to absorb any engine oil leaks or spills.
- · Do not allow engine oil to adhere to drive belts.
- · Completely wipe off any engine oil that adheres to the engine and the vehicle.

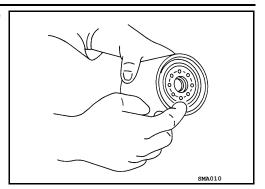
INSTALLATION

1. Remove foreign materials adhering to the oil filter seal mating surface.



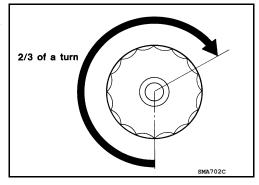
< PERIODIC MAINTENANCE >

Apply clean engine oil to the oil filter seal circumference of the new oil filter as shown.



 Screw on the oil filter manually until it touches the installation surface, then tighten it by 2/3 turn as shown. Or tighten to specification.

Oil filter : 17.7 N·m (1.8 kg-m, 13 ft-lb)



- Refill engine with new engine oil. Refer to <u>LU-8</u>, "Changing Engine Oil".
- 5. Inspect the engine for oil leaks. Refer to MA-20, "OIL FILTER: Removal and Installation".
- 6. Install the engine under cover acess door. Refer to EXT-15, "Removal and Installation".

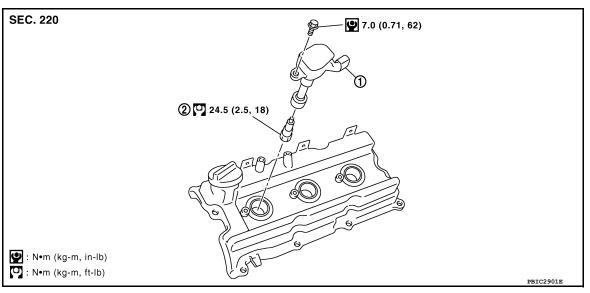
INSPECTION AFTER INSTALLATION

- 1. Check the engine oil level. Refer to <u>LU-7</u>, "Inspection".
- 2. Start the engine and check for engine oil leaks.
- 3. Stop the engine and wait for 10 minutes.
- Check the engine oil level and add engine oil as required.

SPARK PLUG

SPARK PLUG: Exploded View

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1. Ignition coil

2. Spark plug

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SPARK PLUG: Removal and Installation

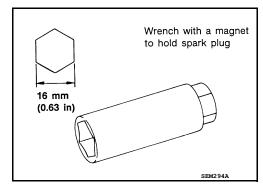
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REMOVAL

- 1. Remove the ignition coil. Refer to EM-40, "Removal and Installation".
- 2. Remove the spark plug using a suitable tool.

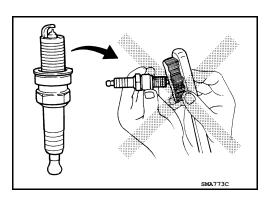
CAUTION:

Do not drop or shock it.



INSPECTION AFTER REMOVAL

• Do not use a wire brush for cleaning.

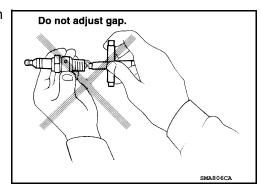


• If the spark plug tip is covered with carbon, spark plug cleaner may be used.

Cleaner air pressure : Less than 588 kPa (5.9 bar, 6 kg/cm², 85 psi)

Cleaning time : Less than 20 seconds

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



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Do not drop or shock the spark plug.

Make	NGK
Standard type*	DILFR5A-11
Gap (nominal)	1.1 mm (0.043 in)

^{*}Always check with the Parts Department for the latest parts information.

EVAP VAPOR LINES

< PERIODIC MAINTENANCE >

EVAP VAPOR LINES: Checking EVAP Vapor Line

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

2. Inspect vacuum relief valve of fuel tank filler cap for clogging and sticking. Refer to EC-493, "How to Detect Fuel Vapor Leakage".

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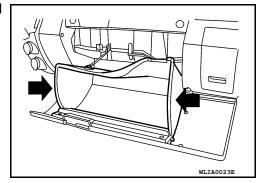
CHASSIS AND BODY MAINTENANCE IN-CABIN MICROFILTER

IN-CABIN MICROFILTER: Removal and Installation

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REPLACEMENT PROCEDURE

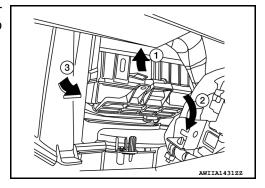
1. Open the lower glove box and press in on the sides so that it will open completely allowing it to hang by the cord.



2. Gently lift up on the tab (1) then pull the in-cabin microfilter cover rearward (toward the rear of the vehicle [2]) and then down to remove the cover (3).

CAUTION:

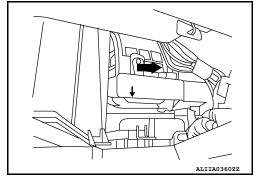
Use care when lifting up on the tab to avoid damaging it.



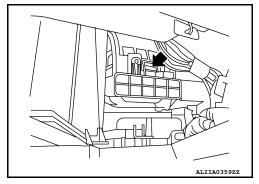
- 3. Remove the in-cabin microfilters from the front heater and cooling unit housing.
- 4. Insert the first new in-cabin microfilter into the front heater and cooling unit housing and slide it over to the right. Insert the second new in-cabin microfilter into the front heater and cooling unit housing as shown.

NOTE:

The in-cabin microfilters are marked with air flow arrows. The end of the microfilter with the arrow should face the rear of the vehicle. The arrows should point downward.



5. Install the in-cabin microfilter cover, make sure the tab is locked in place as shown.



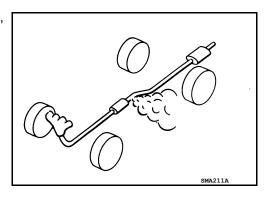
6. Close the lower glove box completely.

EXHAUST SYSTEM

< PERIODIC MAINTENANCE >

EXHAUST SYSTEM: Checking the Exhaust System

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



A/T FLUID

A/T FLUID : Checking the A/T Fluid (ATF)

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CAUTION:

If using the vehicle for towing, the A/T fluid must be replaced as specified. Refer to MA-8, "Introduction of Periodic Maintenance".

- 1. Before driving, the A/T fluid level can be checked at A/T fluid temperatures of 30° to 50° C (86° to 122° F) using the "COLD" range on the A/T fluid level gauge as follows:
- Park the vehicle on a level surface and set the parking brake.
- Start the engine and move the shift selector through each gear position. Move the shift selector into the "P" position.
- Check the A/T fluid level with the engine idling.
- d. Remove the A/T fluid level gauge and wipe it clean with a lintfree paper.

CAUTION:

When wiping the A/T fluid from the A/T fluid level gauge, always use a lint-free paper, not a cloth.

e. Re-insert the A/T fluid level gauge into the A/T fluid charging pipe until the cap contacts the top of the A/T fluid charging pipe as shown.

CAUTION:

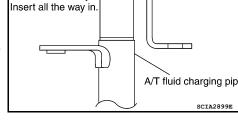
To check A/T fluid level, insert the A/T fluid level gauge until the cap contacts the top of the A/T fluid charging pipe, with the gauge reversed from the normal inserted position.

Remove the A/T fluid level gauge and note the A/T fluid level. If the A/T fluid level is at low side of range, add A/T fluid to the transmission through the A/T fluid charging pipe.

CAUTION:

Do not overfill the transmission with A/T fluid.

Install the A/T fluid level gauge and the A/T fluid level gauge bolt.



A/T fluid level gauge bolt : Refer to TM-247, "Removal and Installation (2WD)" for (2WD) or TM-249, "Removal and Installation (4WD)" for (4WD).

- 2. Warm up the engine and transmission.
- Check for any A/T fluid leaks.
- Drive the vehicle to increase the A/T fluid temperature to 80° C (176° F).

A/T fluid level gauge A/T fluid charging pipe

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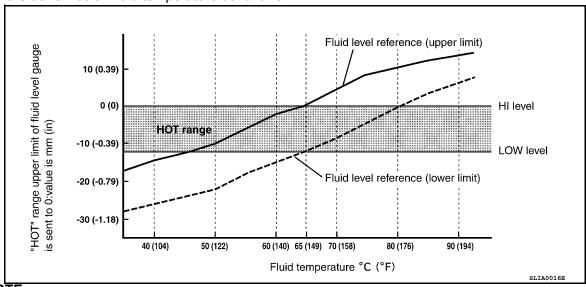
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< PERIODIC MAINTENANCE >

5. Allow the transmission fluid temperature to fall to approximately 65°C (149°F). Use the CONSULT to monitor the transmission fluid temperature as follows:



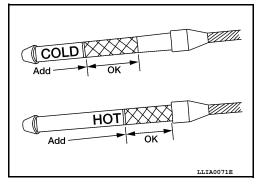
NOTE:

The transmission fluid level will be significantly affected by the transmission fluid temperature as shown. Therefore monitor the transmission fluid temperature data using the CONSULT.

- a. Connect CONSULT to data link connector.
- b. Select "MAIN SIGNALS" in "DATA MONITOR" mode for "TRANSMISSION" with CONSULT.
- c. Read out the value of "ATF TEMP 1".
- Re-check the A/T fluid level at A/T fluid temperatures of approximately 65°C (149°F) using the "HOT" range on the A/T fluid level gauge as shown. The HOT range is between 50° 80° C (122° 176° F).

CAUTION:

 When wiping the A/T fluid from the A/T fluid level gauge, always use lint-free paper, not a cloth.



- To check the A/T fluid level, insert the A/T fluid level gauge until the cap contacts the top of the A/T fluid charging pipe, with the gauge reversed from the normal inserted position as shown.
- 7. Check the A/T fluid condition.
 - If the A/T fluid is very dark or has some burned smell, there
 may be an internal problem with the transmission. Refer to

 <u>TM-253</u>, "Exploded View". Flush the transmission cooling system after repairing the transmission.
 - If the A/T fluid contains frictional material (clutches, bands, etc.), replace the radiator and flush the transmission cooler lines using cleaning solvent and compressed air after repairing the transmission.
- A/T fluid level gauge

 Insert all the way in.

 A/T fluid charging pipe

 SCIA2899E
- 8. Install the A/T fluid level gauge in the A/T fluid charging pipe.
- 9. Tighten the A/T fluid level gauge bolt to specification.

A/T fluid level gauge bolt : Refer to TM-247, "Removal and Installation (2WD)" for (2WD) or TM-249, "Removal and Installation (4WD)" for (4WD).

< PERIODIC MAINTENANCE >

A/T FLUID: Changing the A/T Fluid (ATF)

INFOID:0000000007359706

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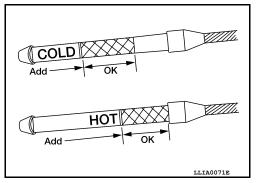
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CAUTION:

If using the vehicle for towing, the A/T fluid must be replaced as specified. Refer to MA-8, "Introduction of Periodic Maintenance".

- 1. Drive the vehicle to warm up the A/T fluid to approximately 80° C (176° F).
- 2. Stop the engine.
- 3. Remove the A/T fluid level gauge.
- 4. Drain the A/T fluid from the drain plug hole, then install the drain plug with a new gasket. Refill the transmission with new A/T fluid. Always refill with the same volume as the drained A/T fluid. Use the A/T fluid level gauge to check the A/T fluid level as shown. Add A/T fluid as necessary.

Drain plug : Refer to TM-253, "Exploded View".



- To flush out the old A/T fluid from the transmission oil coolers, pour new A/T fluid into the A/T fluid charging pipe with the engine idling and at the same time drain the old A/T fluid from the auxiliary transmission oil cooler hose return line.
- When the color of the A/T fluid coming out of the auxiliary transmission oil cooler hose return line is about the same as the color of the new A/T fluid, flushing out the old A/T fluid is complete. The amount of new A/T fluid used for flushing should be 30% to 50% increase of the specified capacity.

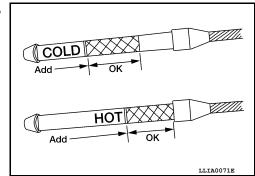
A/T fluid grade and capacity : Refer to MA-13, "Fluids and Lubricants".

CAUTION:

- If Genuine NISSAN Matic S ATF is not available, Genuine NISSAN Matic J ATF may also be used.
 Using automatic transmission fluid other than Genuine NISSAN Matic S ATF or Matic J ATF will
 cause deterioration in driveability and automatic transmission durability, and may damage the
 automatic transmission, which is not covered by the NISSAN new vehicle limited warranty.
- When filling the transmission with A/T fluid, do not spill the A/T fluid on any heat generating parts such as the exhaust manifold.
- Do not reuse the drain plug gasket.
- Install the A/T fluid level gauge and tighten the A/T fluid level gauge bolt to specification.

A/T fluid level gauge bolt : Refer to TM-247, "Removal and Installation (2WD)" for (2WD) or TM-249, "Removal and Installation (4WD)" for (4WD).

- Drive the vehicle to warm up the A/T fluid to approximately 80° C (176° F).
- 7. Check the fluid level and condition. If the A/T fluid is still dirty, repeat steps 2 through 6.



8. Install the A/T fluid level gauge in the A/T fluid charging pipe and install the A/T fluid level gauge bolt.

9. Tighten the A/T fluid level gauge bolt to specification.

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< PERIODIC MAINTENANCE >

A/T fluid level gauge bolt : Refer to TM-247, "Removal and Installation

(2WD)" for (2WD) or TM-249, "Removal and In-

stallation (4WD)" for (4WD).

M/T OIL

M/T OIL: Checking Manual Transmission Fluid (MT)

INFOID:0000000007359707

OIL LEAKAGE AND OIL LEVEL

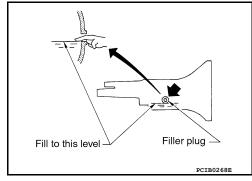
- Make sure that oil is not leaking from the transmission or around it.
- 2. Check oil level from the filler plug hole as shown. **CAUTION:**

Do not start engine while checking oil level.

Set a gasket on the filler plug and install it to the transmission. Tighten the filler plug to the specified torque. Refer to TM-30. "Disassembly".

CAUTION:

Do not reuse gasket.



M/T OIL: Changing Manual Transmission Fluid (MT)

INFOID:0000000007359708

DRAINING

- 1. Start the engine and let it run to warm up the transmission.
- 2. Stop the engine. Remove the transmission drain plug and drain the oil.
- Set a gasket on the drain plug and install it to the transmission. Tighten the drain plug to the specified torque. Refer to TM-30, "Disassembly". **CAUTION:**

Do not reuse gasket.

FILLING

Remove the filler plug. Fill with new oil until oil level reaches the specified limit near the filler plug hole as shown.

> Oil grade and viscosity : Refer to MA-14, "SAE

Viscosity Number".

Oil capacity : Refer to MA-13, "Fluids

and Lubricants".

2. After refilling the oil, check oil level. Set a gasket to the filler plug, then install it to the transmission. Tighten the filler plug to the specified torque. Refer to TM-30, "Disassembly". **CAUTION:**

Do not reuse gasket.

TRANSFER FLUID

TRANSFER FLUID : Checking Transfer Fluid (TX15B)

INFOID:0000000007359709

PCIB0268E

Filler plug

Fill to this level

CAUTION:

If using the vehicle for towing, the transfer fluid must be replaced as specified. Refer to MA-8, "Introduction of Periodic Maintenance".

FLUID LEAKAGE AND FLUID LEVEL

Make sure that fluid is not leaking from the transfer assembly or around it.

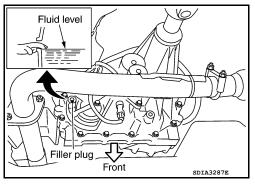
< PERIODIC MAINTENANCE >

Check fluid level from the filler plug hole as shown. **CAUTION:**

Do not start engine while checking fluid level.

Install the filler plug with a new gasket to the transfer. Tighten to the specified torque. Refer to DLN-103, "Exploded View". **CAUTION:**

Do not reuse gasket.



TRANSFER FLUID: Changing Transfer Fluid (TX15B)

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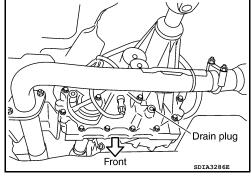
CAUTION:

If using the vehicle for towing, the transfer fluid must be replaced as specified. Refer to MA-8, "Introduction of Periodic Maintenance".

DRAINING

- Stop engine.
- 2. Remove the drain plug and gasket and drain the fluid.
- 3. Install the drain plug with a new gasket to the transfer. Tighten to the specified torque. Refer to <u>DLN-103</u>, "Exploded View". **CAUTION:**

Do not reuse gasket.



FILLING

- Remove the filler plug and gasket.
- 2. Fill the transfer with new fluid until the fluid level reaches the specified limit near the filler plug hole.

Fluid grade and capacity: Refer to MA-13, "Fluids and Lubricants".

CAUTION:

Carefully fill fluid. (Fill up slowly, taking approximately 3 minutes to complete.)

- 3. Leave the vehicle for 3 minutes, and check fluid level again.
- 4. Install the filler plug with a new gasket to the transfer. Tighten to the specified torque. Refer to <u>DLN-103</u>, "Exploded View". **CAUTION:**

Do not reuse gasket.

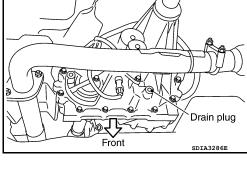
PROPELLER SHAFT

PROPELLER SHAFT: Checking Propeller Shaft

INFOID:0000000007359711

Check the front and rear propeller shafts for damage, dents, and cracks. Check the joints for looseness and any damage. Repair or replace as necessary. Refer to DLN-132, "NVH Troubleshooting Chart" or DLN-141, "NVH Troubleshooting Chart".

DIFFERENTIAL GEAR OIL



Fluid level Filler plug SDIA3287E

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< PERIODIC MAINTENANCE >

DIFFERENTIAL GEAR OIL: Checking Front Final Drive Oil (R180A)

DIFFERENTIAL GEAR OIL LEAKAGE AND LEVEL

- 1. Make sure that differential gear oil is not leaking from the front final drive assembly or around it.
- 2. Check the differential gear oil level from the filler plug hole as shown.

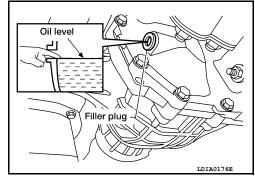
CAUTION:

Do not start engine while checking differential gear oil level.

3. Install the filler plug with a new gasket on it to the front final drive assembly. Tighten to the specified torque. Refer to <u>DLN-170</u>, "Disassembly and Assembly".

CAUTION:

Do not reuse gasket.



DIFFERENTIAL GEAR OIL: Changing Front Final Drive Oil (R180A)

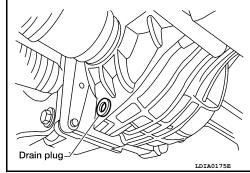
INFOID:0000000007359713

DRAINING

- Stop the engine.
- 2. Remove the drain plug and gasket from the front final drive assembly to drain the differential gear oil.
- 3. Install the drain plug with a new gasket to the front final drive assembly. Tighten to the specified torque. Refer to DLN-170. "Disassembly and Assembly".

CAUTION:

Do not reuse gasket.



FILLING

- Remove the filler plug and gasket from the front final drive assembly.
- Fill the front final drive assembly with new differential gear oil until the level reaches the specified level near the filler plug hole.

Differential gear oil grade and capacity

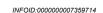
: Refer to MA-13, "Fluids and Lubricants".

3. Install the filler plug with a new gasket on it to the front final drive assembly. Tighten to the specified torque. Refer to DLN-170. "Disassembly and Assembly".

CAUTION:

Do not reuse gasket.

DIFFERENTIAL GEAR OIL: Checking Rear Final Drive Oil (C200)



DIFFERENTIAL GEAR OIL LEAKAGE AND LEVEL

1. Make sure that differential gear oil is not leaking from the rear final drive assembly or around it.

Oil level

Filler plug

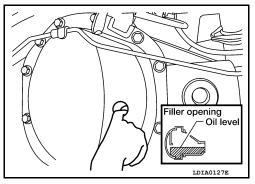
< PERIODIC MAINTENANCE >

Check the differential gear oil level from the filler plug hole as shown.

CAUTION:

Do not start engine while checking differential gear oil level.

- 3. Install the filler plug with sealant applied on the threads to the rear final drive assembly. Tighten to the specified torque. Refer to DLN-202, "Disassembly and Assembly".
 - · Use High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".



DIFFERENTIAL GEAR OIL: Changing Rear Final Drive Oil (C200)

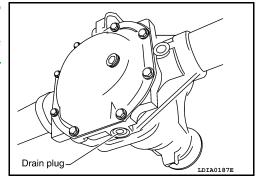
INFOID:0000000007359715

DRAINING

- 1. Stop engine.
- 2. Remove the drain plug from the rear final drive assembly to drain the differential gear oil.
- 3. Install the drain plug with a new gasket to the rear final drive assembly. Tighten to the specified torque. Refer to DLN-202, "Disassembly and Assembly".

CAUTION:

Do not reuse gasket.

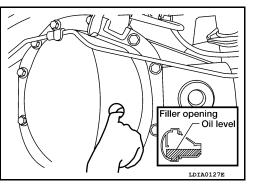


FILLING

- Remove the filler plug from the rear final drive assembly.
- 2. Fill the rear final drive assembly with new differential gear oil until the level reaches the specified level near the filler plug hole.

: Refer to MA-13, "Fluids Differential gear oil grade and capacity and Lubricants".

- 3. Install the filler plug with sealant applied on the threads to the rear final drive assembly. Tighten to the specified torque. Refer to DLN-202, "Disassembly and Assembly".
 - Use High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".



DIFFERENTIAL GEAR OIL: Checking Rear Final Drive Oil (M226)

INFOID:0000000007359716

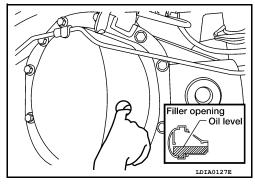
DIFFERENTIAL GEAR OIL LEAKAGE AND LEVEL

- Make sure that differential gear oil is not leaking from the rear final drive assembly or around it.
- 2. Check the differential gear oil level from the filler plug hole as shown.

CAUTION:

Do not start engine while checking differential gear oil level.

- 3. Install the filler plug with sealant applied on the threads to the rear final drive assembly. Tighten to the specified torque. Refer to DLN-233, "Disassembly and Assembly".
 - · Use High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".



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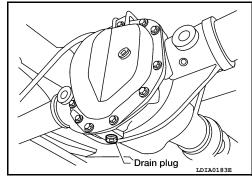
< PERIODIC MAINTENANCE >

DIFFERENTIAL GEAR OIL: Changing Rear Final Drive Oil (M226)

INFOID:0000000007359717

DRAINING

- 1. Stop engine.
- 2. Remove the drain plug from the rear final drive assembly to drain the differential gear oil.
- Install the drain plug with sealant applied on the threads to the rear final drive assembly. Tighten to the specified torque. Refer to <u>DLN-233</u>. "<u>Disassembly and Assembly</u>".
 - Use High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants"

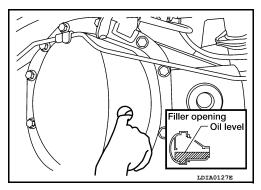


FILLING

- 1. Remove the filler plug from the rear final drive assembly.
- 2. Fill the rear final drive assembly with new differential gear oil until the level reaches the specified level near the filler plug hole.

Differential gear oil : Refer to MA-13, "Fluids grade and capacity and Lubricants".

- Install the filler plug with sealant applied on the threads to the rear final drive assembly. Tighten to the specified torque. Refer to <u>DLN-233</u>, "<u>Disassembly and Assembly</u>".
 - Use High Performance Thread Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".



WHEELS

WHEELS: Adjustment

INFOID:0000000007359718

BALANCING WHEELS (ADHESIVE WEIGHT TYPE)

Preparation Before Adjustment

Remove inner and outer balance weights from the road wheel using releasing agent, remove double-faced adhesive tape from the road wheel.

CAUTION:

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

Wheel Balance Adjustment

- If a balancer machine has an adhesive weight mode setting, select the adhesive weight mode setting and skip Step 2. below. If a balancer machine only has the clip-on (rim flange) weight mode setting, follow Step 2. to calculate the correct size adhesive weight.
- 1. Set road wheel on balancer machine using the center hole as a guide. Start the balancer machine.
- 2. For balancer machines that only have a clip-on (rim flange) weight mode setting, follow this step to calculate the correct size adhesive weight to use. When inner and outer imbalance values are shown on the balancer machine indicator, multiply outer imbalance value by 5/3 (1.67) 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.

< PERIODIC MAINTENANCE >

Indicated imbalance value \times 5/3 = balance weight to be installed Calculation example:

23 g (0.81 oz) \times 5/3 (1.67) = 38.33 g (1.35 oz) \Rightarrow 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

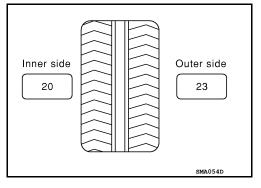
NOTE:

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

Example:

 $37.4 \Rightarrow 35 \text{ g } (1.23 \text{ oz})$

 $37.5 \Rightarrow 40 \text{ g } (1.41 \text{ oz})$



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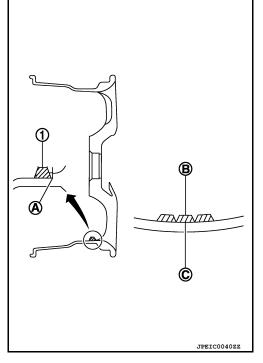
Install balance weight in the position shown.

CAUTION:

- · Do not 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.
- When installing balance weight (1) to road wheel, set it into the grooved area (A) on the inner wall of the road wheel as shown so that the balance weight center (B) is aligned with the balancer machine indication position (angle) (C).

CAUTION:

- Always use genuine NISSAN adhesive balance weights.
- Balance weights are non-reusable; always replace with
- Do not install more than three sheets of balance weight.



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

Do not install one balance weight sheet on top another.

- Start balancer machine again.
- 6. Install balance weight on inner side of road wheel in the balancer machine indication position (angle).

CAUTION:

Do not install more than two balance weights.

- 7. Start balancer machine. Make sure that inner and outer residual imbalance values are 5 g (0.17 oz) each or below.
- 8. If either residual imbalance value exceeds 5 g (0.17 oz), repeat installation procedures.

	Adhesion weight				
Wheel balancer indication position (angle)					
	PEIA0033E				

Wheel balance	Dynamic (At flange)	Static (At flange)
Maximum allowable imbalance	Refer to WT-51	, "Road Wheel".

TIRE ROTATION

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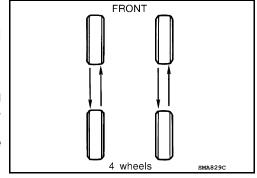
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< PERIODIC MAINTENANCE >

- · Follow the maintenance schedule for tire rotation service intervals. Refer to MA-8, "Introduction of Periodic Maintenance".
- · When installing the wheel, tighten wheel nuts to the specified torque.

CAUTION:

- · Do not include the 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.



Wheel nut tightening

: 133 N·m (14 kg-m, 98 ft-lb)

torque

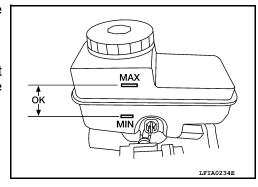
• Perform the ID registration, after tire rotation. Refer to WT-6, "ID Registration Procedure".

BRAKE FLUID LEVEL AND LEAKS

BRAKE FLUID LEVEL AND LEAKS: Checking Brake Fluid Level and Leaks

INFOID:0000000007359719

- · Check the brake fluid level in the reservoir tank. It should be between the "MAX" and "MIN" lines on the reservoir tank.
- · Visually check around reservoir tank for fluid leaks.
- If the fluid level is extremely low, check the brake system.
- If the brake warning lamp comes on when the fluid is at the correct level, check the brake fluid level switch and the parking brake switch.



BRAKE LINES AND CABLES

BRAKE LINES AND CABLES: Checking Brake Line and Cables

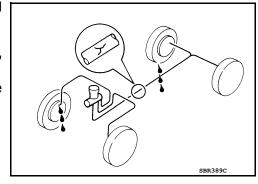
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1. Check the brake lines and hoses for cracks, deterioration, and other damage. Replace any damaged parts.

CAUTION:

If brake fluid leaks are visible around the brake line joints, retighten the joint, or replace damaged parts as necessary.

2. Check for brake fluid leaks by fully depressing brake pedal while engine is running.



DISC BRAKE

DISC BRAKE: Checking Disc Brake

INFOID:0000000007359721

ROTOR

< PERIODIC MAINTENANCE >

Check the condition of the rotor, and for any wear or damage. Repair or replace as necessary.

Standard thickness : Refer to <u>BR-52, "Front Disc</u>

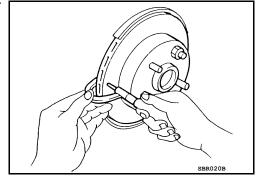
Brake" (front), BR-52, "Rear

Disc Brake" (rear).

Repair limit thickness : Refer to <u>BR-52, "Front Disc</u>

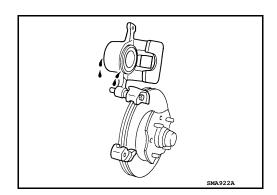
Brake" (front), BR-52, "Rear

Disc Brake" (rear).



CALIPER

Check for any fluid leakage. Repair as necessary.



PAD

Inspect the thickness of pad through cylinder body inspection hole. Use a scale for inspection if necessary.

Standard thickness : Refer to BR-52, "Front Disc

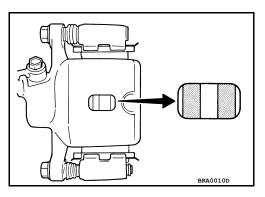
Brake" (front), BR-52, "Rear

<u>Disc Brake"</u> (rear).

Repair limit thickness : Refer to BR-52, "Front Disc

Brake" (front), BR-52, "Rear

Disc Brake" (rear).

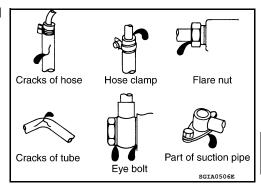


STEERING GEAR AND LINKAGE

STEERING GEAR AND LINKAGE: Checking Steering Gear and Linkage INFOID-000000007359722

STEERING GEAR

- Check the steering gear housing for looseness, damage and oil leakage as shown.
- Check the steering column connections for looseness.



STEERING LINKAGE

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

POWER STEERING FLUID AND LINES

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POWER STEERING FLUID AND LINES: Checking Power Steering Fluid and Line

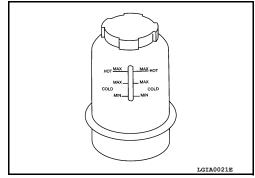
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CHECKING FLUID LEVEL

- · Check the power steering fluid level with the 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).

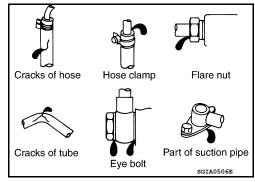
CAUTION:

- Do not overfill.
- Fill with the recommended fluid or equivalent. Refer to MA-13, "Fluids and Lubricants".



CHECKING LINES

 Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration. Refer to <u>ST-6, "Checking</u> <u>Fluid Leakage"</u>.



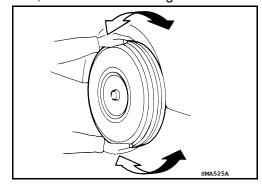
AXLE AND SUSPENSION PARTS

AXLE AND SUSPENSION PARTS: Checking Axle and Suspension Parts INFOID-000000007359724

FRONT AND REAR AXLE AND SUSPENSION PARTS

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.

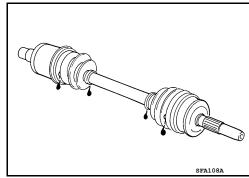


- Check the strut and shock absorber for oil leakage or other damage.
- Check suspension ball joints for grease leakage and ball joint dust cover for cracks or other damage.

FRONT DRIVE SHAFT

< PERIODIC MAINTENANCE >

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



LOCKS, HINGES AND HOOD LATCH

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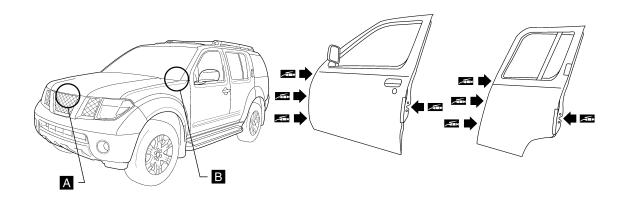
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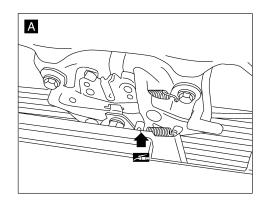
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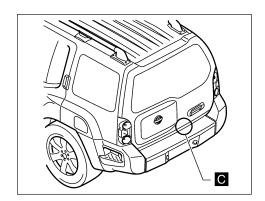
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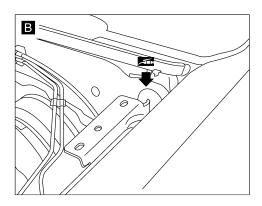
LOCKS, HINGES AND HOOD LATCH: Lubricating Locks, Hinges and Hood Latches

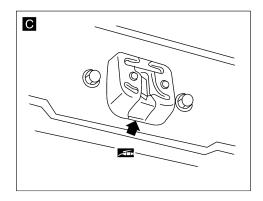
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• Lubricate the locations shown. Refer to MA-13, "Fluids and Lubricants". SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS : Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

Check the seat belt buckles, webbing, retractors, anchors and adjusters. Replace any seat belt assembly as necessary. Refer to <u>SB-8</u>. "Seat Belt Inspection".

- · Check the seat belt anchors for loose mounting bolts, damage, or excessive wear.
- Check the seat belt webbing for any damage, cuts, fraying, or excessive wear.
- Check the retractor for smooth operation.

< PERIODIC MAINTENANCE >

• Check the function of the buckles by inserting the seat belt tongue and checking for proper engagement of the buckle and press the button on the buckle to check for proper release of the seat belt tongue.

CAUTION:

- After any collision, inspect all seat belt assemblies, including retractors and other attached components, such as the guide rail set. NISSAN recommends replacing all seat belt assemblies in use during a collision, unless they are not damaged and are inspected to confirm they are operating properly after a minor collision.
- Also inspect all seat belt assemblies that are not in use during a collision, and replace any components if damaged or not operating properly. The seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal collision where the driver and passenger air bags have been deployed.
- If any component of the seat belt assembly is suspected of being damaged or not operating properly, do not repair the component. Replace the components as an assembly.
- If the seat belt webbing is cut, frayed, or damaged then replace the seat belt assembly.
- Never lubricate the seat belt buckle or tongue.
- When replacing any seat belt assembly always use a Genuine NISSAN seat belt assembly.

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