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PREPARATION

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Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.
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Tool number (Kent-Moore No.) Tool name		Description
KV10115801 (J38956) Oil filter wrench	a P	Removing and installing oil filter a: 64.3 mm (2.531 in)
	S-NT375	

Commercial Service Tool

INFOID:0000000004371090

Tool name (Kent-Moore No.)		Description	
Power tool (—)		Loosening nuts and bolts	
Spark plug wrench	PBIC0190E	Removing and installing spark plug a : 14 mm (0.55 in)	
	JPBIA0399ZZ		

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GENERAL MAINTENANCE

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PERIODIC MAINTENANCE

GENERAL MAINTENANCE

Explanation of General Maintenance

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General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform checks and inspections themselves or have their INFINITI 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.	WT-104			
Wheel nuts	Wheel nuts When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.				
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	_			
Tire rotation	Tires cannot be rotated, as front tires are different from rear tires and the direction of wheel rotation is fixed in each tire.	MA-23			
Tire Pressure Monitoring System (TPMS) transmitter components Replace the TPMS transmitter grommet seal, valve core and care replaced due to wear or age.		WT-101			
Wheel alignment and balance	If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	FSU-7 RSU-6 MA-23			
Windshield wiper blades	Check for cracks or wear if they do not wipe properly.	_			
Check that all doors and the engine hood operate properly. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.		MA-30			
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.	_			

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.	_
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	_
Windshield defroster	Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	_
Steering wheel	Check that it has the specified play. Be sure to check for changes in the steering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	_
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.	_

GENERAL MAINTENANCE

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< PERIODIC MAINTENANCE >

Item		Reference page			
Seat belts	MA-30				
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.	eatch			
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 the proper free play.	<u>CL-6</u>			
Parking brake	Check that 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.	PB-3 (PEDAL TYPE) PB-3 (LEVER TYPE)			
Automatic transmis- sion "Park" mecha- nism	Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the selector lever in the P (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	_						
Engine coolant level	Check the coolant level when the engine is cold.	<u>CO-7</u>					
Radiator and hoses	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 level	Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoires.	MA-26 MA-20					
Battery	PG-3						
Engine drive belt	Make sure that no belt is frayed, worn, cracked or oily.	<u>MA-12</u>					
Engine oil level	<u>LU-6</u>						
Power steering fluid level and lines							
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.	MA-19					
Underbody	_						
Fluid leaks	_						

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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/time intervals.

	Follow Periodic Maintenance Schedule 1 if the driving habits frequently include one or more of the following driving conditions:	Emission Control System Maintenance	
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-6</u>
Schedule 2	Follow Periodic Maintenance Schedule 2 if none of driving conditions shown in Schedule 1 apply to the driving habits.	Emission Control System Maintenance	<u>MA-8</u>
		Chassis and Body Maintenance	

Schedule 1

EMISSION CONTROL SYSTEM

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

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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	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
Drive belt	NOTE (1)									MA-12
Air cleaner filter	NOTE (2)								[R]	MA-15
EVAP vapor lines									 *	MA-18
Fuel lines									 *	<u>MA-15</u>
Fuel filter	NOTE (3)									_
Engine coolant	NOTE (4)									MA-12
Engine oil		R	R	R	R	R	R	R	R	<u>MA-16</u>
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent.)		R	R	R	R	R	R	R	R	<u>MA-16</u>
Spark plugs (Iridium-tipped type)	NOTE (5)	Replace every 105,000 miles (169,000 km).				MA-17				
Intake & exhaust valve clear- ance*	NOTE (6)									<u>EM-18</u>

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
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
Drive belt	NOTE (1)								 *	MA-12
Air cleaner filter	NOTE (2)								[R]	MA-15
EVAP vapor lines									 *	MA-18
Fuel lines									 *	<u>MA-15</u>

< 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	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 filter	NOTE (3)									_	
Engine coolant	NOTE (4)								R*	MA-12	
Engine oil		R	R	R	R	R	R	R	R	MA-16	
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent.)		R	R	R	R	R	R	R	R	MA-16	
Spark plugs (Iridium-tipped type)	NOTE (5)		Repla	ace every	/ 105,00	0 miles (169,000	km).		MA-17	
Intake & exhaust valve clear- ance*	NOTE (6)									EM-18	

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 belt if found damaged or if the auto belt 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 FL section.
- (4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (5) Replace spark plug when the spark plug gap exceeds 1.4 mm (0.055 in) even if within specified periodic replacement mileage.
- (6) Periodic maintenance is not required. However, if valve noise increases, inspect valve clearance.
- * Maintenance items and intervals with "*" are recommended by INFINITI 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

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

MAINTENANCE OPERATIO	N			MAIN	NTENAN	CE INTE	RVAL			Reference
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	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	Section - Page or - Con- tent Title
Brake lines & cables									I	MA-26
Brake pads & rotors			I		I		I		I	MA-27
Automatic transmission fluid	NOTE (1)									_
Manual transmission gear oil & differential gear oil	NOTE (2)				I				I	MA-19 MA-22
Steering gear & linkage, axle & suspension parts			I		I		I		I	MA-28 MA-29
Tire rotation	NOTE (3)									MA-4 MA-23
Exhaust system			I		1		ı		I	MA-19
In-cabin microfilter					R				R	VTL-9
Stop lamp switch & ASCD brake switch	NOTE (4)				I				I	BR-8

MAINTENANCE OPERATIO		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 & cables					- 1				I	MA-26
Brake pads & rotors			I		I		I		I	MA-27

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MAINTENANCE OPERATIO	N			MAIN	ITENAN	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
Automatic transmission fluid	NOTE (1)									_
Manual transmission gear oil & differential gear oil	NOTE (2)				I				I	MA-19 MA-22
Steering gear & linkage, axle & suspension parts			I		I		I		I	MA-28 MA-29
Tire rotation	NOTE (3)									MA-4 MA-23
Exhaust system			I		I		I		I	MA-19
In-cabin microfilter					R				R	VTL-9
Stop lamp switch & ASCD brake switch	NOTE (4)				I				I	BR-8

NOTE:

- (1) Automatic transmission fluid is maintenance-free.
- (2) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) fluid (A/T, transfer)/oil at every 30,000 miles (48,000 km) or 24 months. Using automatic transmission fluid other than 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 INFINITI new vehicle limited warranty.
- (3) Refer to "Tire rotation" under the "General maintenance" heading earlier in this section.
- (4) Inspect the clearance between the brake pedal and the switches.

Schedule 2 INFOID:000000004371094

EMISSION CONTROL SYSTEM

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

MAINTENANCE OPERATION				MAIN	TENAN	CE INTI	ERVAL			Reference Sec-
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	tion - Page or - Content Title
Drive belt	NOTE (1)								l*	<u>MA-12</u>
Air cleaner filter					[R]				[R]	<u>MA-15</u>
EVAP vapor lines					I *				l*	<u>MA-18</u>
Fuel lines					*				l*	<u>MA-15</u>
Fuel filter	NOTE (2)									_
Engine coolant	NOTE (3)								R*	<u>MA-12</u>
Engine oil		R	R	R	R	R	R	R	R	<u>MA-16</u>
Engine oil filter (Use genuine NISSAN engine oil filter or equivalent.)		R	R	R	R	R	R	R	R	<u>MA-16</u>
Spark plugs (Iridium-tipped type)	NOTE (4)		Repla	ce ever	y 105,00	00 miles	(169,0	00 km).	•	<u>MA-17</u>
Intake & exhaust valve clear- ance*	NOTE (5)									<u>EM-18</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 belt if found damaged or if the auto belt tensioner reading reaches the maximum limit.
- (2) Maintenance-free item. For service procedures, refer to FL section.
- (3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (4) Replace spark plug when the spark plug gap exceeds 1.4 mm (0.055 in) even if within specified periodic replacement mileage.
- (5) Periodic maintenance is not required. However, if valve noise increases, inspect valve clearance.

< PERIODIC MAINTENANCE >

* Maintenance items and intervals with "*" are recommended by INFINITI 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

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

MAINTENANCE OPERATION				MAIN	TENAN	CE INT	ERVAL			Reference Sec-
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	tion - Page or - Content Title
Brake lines & cables			I		I		ı		I	<u>MA-26</u>
Brake pads & rotors			I		I		I		I	MA-27
Automatic transmission fluid	NOTE (1)									_
Manual transmission gear oil & differential gear oil			I		I		1		I	MA-19 MA-22
Steering gear & linkage, axle & suspension parts					I				I	MA-28 MA-29
Tire rotation	NOTE (2)									MA-4 MA-23
Exhaust system					I				I	<u>MA-19</u>
In-cabin microfilter			R		R		R		R	VTL-9
Stop lamp switch & ASCD brake switch	NOTE (3)		I		I		I		I	BR-8

NOTE:

(1) Automatic transmission fluid is maintenance-free.

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

(3) Inspect the clearance between the brake pedal and the switches.

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RECOMMENDED FLUIDS AND LUBRICANTS

< PERIODIC MAINTENANCE >

RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

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			Capa	city (Approxima	ate)	
			US mea- sure	Imp mea- sure	Liter	Recommended Fluids/Lubricants
Engine oil	With oil filter ch	nange	5-1/8 qt	4-3/8 qt	4.9	
Drain and refill			4-7/8 qt	4 qt	4.6	 Engine oil with API Certification Mark*1,*7 Viscosity SAE 5W-30
Dry engine (Overhaul)		6 qt	5 qt	5.7	Viscosity SAL SW-30	
	With reservoir	A/T	9 qt	7-1/2 qt	8.5	
Cooling system	tank	M/T	9-1/8 qt	7-5/8 qt	8.6	Genuine NISSAN Long Life Antifreeze/ Coolant or equivalent
	Reservoir tank		7/8 qt	3/4 qt	0.8	
Automatic transm	ission fluid		9-3/4 qt*6	8-1/8 qt*6	9.2 ^{*6}	Genuine NISSAN Matic S ATF *2
Manual transmission gear oil		6 pt	5 pt	2.83	Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 or API GL-4, Viscosity SAE 75W-85 or 75W-90	
Differential gear oil		3 pt	2-1/2 pt	1.40	M/T models: Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5, Viscosity SAE 80W-90*3 A/T models: Genuine NISSAN differential oil synthetic 75W-90 or API GL-5 synthetic gear oil, Viscosity SAE 75W-90*8	
Power steering flu	uid (PSF)		1-1/8 qt	7/8 qt	1.0	Genuine NISSAN PSF or equivalent*4
Brake and clutch fluid		_	_	_	Genuine NISSAN Super Heavy Duty Brake Fluid*5 or equivalent DOT 3 (US FMVSS No. 116)	
Multi-purpose grease		_	_	_	NLGI No. 2 (Lithium soap base)	
Windshield washer fluid		_	_	_	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent	
Fuel recommenda	ation		_	_	_	Refer to GI-27, "Fuel".

^{*1:} For further details, see "Engine Oil Recommendation".

Engine Oil Recommendation

INFOID:0000000004371096

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.

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

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

^{*4:} DEXRON™ VI type ATF is used.

^{*5:} Available in mainland U.S.A. through your INFINITI dealer.

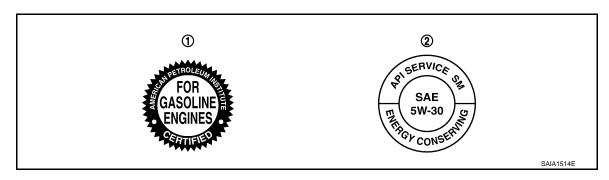
^{*6:} The fluid capacity is the reference value.

^{*7:} INFINITI recommends Genuine NISSAN Ester Engine Oil available at your INFINITI dealer.

^{*8:} See an INFINITI dealer for service for synthetic oil.

RECOMMENDED FLUIDS AND LUBRICANTS

< PERIODIC MAINTENANCE >



- 1. API certification mark
- 2. API service symbol

Anti-Freeze Coolant Mixture Ratio

The engine cooling system is filled at the factory with a high-quality, 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 or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralized water/distilled water.

Other types of coolant solutions may damage your cooling system.

	side re down to	Anti-freeze	Demineralized water or
°C	°F		distilled water
-35	-30	50%	50%

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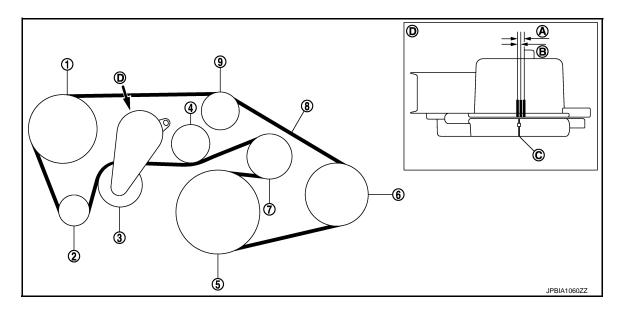
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DRIVE BELT

DRIVE BELT: Exploded View

INFOID:0000000005153029



- 1. Power steering oil pump
- 4. Idler pulley
- 7. Idler pulley
- A. Possible use range
- D. View D

- 2. Alternator
- 5. Crankshaft pulley
- 8. Drive belt
- B. Range when new drive belt is installed
- 3. Drive belt auto-tensioner
- A/C compressor
- 9. Idler pulley
- C. Indicator

DRIVE BELT: Checking

INFOID:0000000005153030

WARNING:

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

 Check that the indicator (C) (notch on fixed side) of drive belt auto-tensioner is within the possible use range (A).

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 (B) in the figure.
- Visually check the entire drive belt for wear, damage or crack.
- If the indicator (notch on fixed side) is out of the possible use range or belt is damaged, replace drive belt.

DRIVE BELT: Tension Adjustment

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Refer to <u>EM-138</u>, "<u>Drive Belt"</u>. **ENGINE COOLANT**

ENGINE COOLANT: Draining

WARNING:

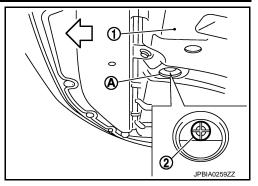
- . To avoid being scalded, never change engine coolant when the engine is hot.
- Wrap a thick cloth around radiator cap and carefully remove radiator cap. First, turn radiator cap a
 quarter of a turn to release built-up pressure. Then turn radiator cap all the way.

< PERIODIC MAINTENANCE >

Open radiator drain plug (2) at the bottom of radiator, and then remove radiator cap.

> : Engine under cover Α : Radiator drain plug hole

: Vehicle front



When draining all of engine coolant in the system, open water drain plugs on cylinder block. Refer to EM-73, "Setting".

- Remove reservoir tank if necessary, and drain engine coolant and clean reservoir tank before installing.
- Check drained engine coolant for contaminants such as rust, corrosion or discoloration. If contaminated, flush the engine cooling system. Refer to MA-14, "ENGINE COOLANT: Flushing".

ENGINE COOLANT : Refilling

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- Remove air cleaner case (LH). Refer to EM-27, "Exploded View".
- 2. Install reservoir tank if removed, and radiator drain plug. **CAUTION:**

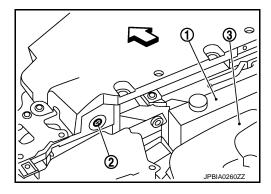
Be sure to clean drain plug and install with new O-ring.

: Refer to CO-12, "Exploded View". Tightening torque

If water drain plugs on cylinder block are removed, close and tighten them. Refer to EM-112, "Disassembly and Assembly".

- Check that each hose clamp has been firmly tightened.
- Remove air relief plug (2) on radiator left side.

: Reservoir tank : Engine cover : Vehicle front



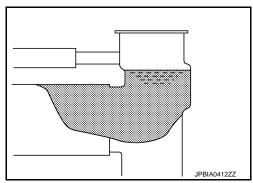
- Fill radiator, and reservoir tank if removed, to specified level.
 - Pour engine coolant through engine coolant filler neck slowly of less than 2 ℓ (2-1/8 US qt, 1-3/4 Imp qt) a minute to allow air in system to escape.
 - Use Genuine NISSAN Long Life Antifreeze/Coolant or equivalent mixed with water (distilled or demineralized). Refer to MA-10, "Fluids and Lubricants".

Engine coolant capacity (With reservoir tank at "MAX" level)

: Refer to <u>CO-24,</u>

"Periodical Maintenanc

e Specification".



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

:Refer to <u>CO-24</u>,

"Periodical Maintenance Specification"

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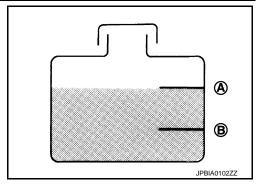
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< PERIODIC MAINTENANCE >

A : MAX B : MIN

6. When engine coolant overflows air relief hole on radiator, install air relief plug with new O-ring.

Tightening torque : Refer to CO-12, "Exploded View".



- 7. Repeat step 5.
- Install air cleaner case (LH). Refer to <u>EM-27, "Exploded View"</u>.
- 9. Install radiator cap.
- 10. 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.

- 11. 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.
- 12. Refill reservoir tank to "MAX" level line with engine coolant.
- 13. Repeat steps 9 through 12 two or more times with radiator cap installed until engine coolant level no longer drops.
- 14. Check cooling system for leakage with engine running.
- 15. 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.
- 16. Repeat step 15 three times.
- 17. If sound is heard, bleed air from cooling system by repeating step 5, and steps from 9 to 16 until engine coolant level no longer drops.
- 18. Check that the reservoir tank cap is tightened.

ENGINE COOLANT: Flushing

INFOID:0000000005153034

1. Install reservoir tank if removed, and radiator drain plug.

CAUTION:

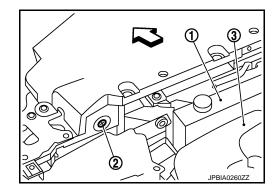
Be sure to clean drain plug and install with new O-ring.

Tightening torque : Refer to CO-12, "Exploded View".

If water drain plugs on cylinder block are removed, close and tighten them. Refer to EM-112, "Disassembly and Assembly".

2. Remove air relief plug (2) on radiator.

1 : Reservoir tank3 : Engine cover: Vehicle front



< PERIODIC MAINTENANCE >

3. Fill radiator with water until water spills from the air relief hole, then close air relief plug. Fill radiator and reservoir tank with water and reinstall radiator cap.

Tightening torque : Refer to CO-12, "Exploded View".

- 4. Run the engine and warm it up to normal operating temperature.
- 5. Rev the engine two or three times under no-load.
- 6. Stop the engine and wait until it cools down.
- 7. Drain water from the system. Refer to MA-12, "ENGINE COOLANT: Draining".
- 8. Repeat steps 1 through 8 until clear water begins to drain from radiator.
- 9. Check that the reservoir tank cap is tightened.

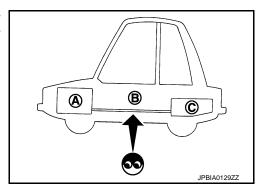
FUEL LINES

FUEL LINES: Inspection

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

A : EngineB : Fuel lineC : Fuel tank

If necessary, repair or replace damaged parts.



AIR CLEANER FILTER

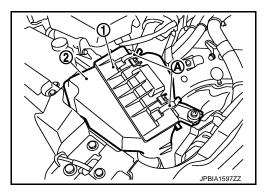
AIR CLEANER FILTER: Removal and Installation

REMOVAL

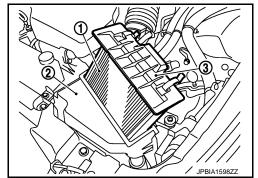
1. Unhook clips (A).

1 : Holder

2 : Air cleaner case



2. Remove holder (3) from air cleaner case (2), and then remove air cleaner filter (1) from holder.



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INSTALLATION

Note the following, and install in the reverse order of removal.

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< PERIODIC MAINTENANCE >

• Install the air cleaner filter by aligning the seal with the notch of air cleaner case.

ENGINE OIL

ENGINE OIL: Draining

INFOID:0000000005153039

WARNING:

- Be careful not to get burn yourself, as engine oil may be hot.
- 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.
- Warm up the engine, and check for engine oil leakage from engine components. Refer to <u>LU-6, "Inspection"</u>.
- 2. Stop the engine and wait for 10 minutes.
- 3. Loosen oil filler cap.
- 4. Remove undercover with power tool.
- 5. Remove drain plug and then drain engine oil.

ENGINE OIL: Refilling

INFOID:0000000005153040

1. Install drain plug with new washer. Refer to EM-43, "Exploded View".

CAUTION:

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

Tightening torque : Refer to EM-43, "Exploded View".

2. Refill with new engine oil.

Engine oil specification and viscosity: Refer to MA-10, "Fluids and Lubricants".

Engine oil capacity: Refer to LU-13, "Periodical Maintenance Specification".

CAUTION:

- When filling engine oil, never pull out oil level gauge.
- 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-6</u>, "Inspection".

OIL FILTER

OIL FILTER: Removal and Installation

INFOID:0000000005153042

REMOVAL

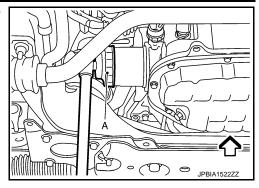
CAUTION:

- 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.
- Never allow engine oil to adhere to drive belt.
- Completely wipe off any engine oil that adheres to engine and vehicle.
- Remove engine undercover with power tool.

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< PERIODIC MAINTENANCE >

Using oil filter wrench [SST: KV10115801 (J-38956)] (A), remove oil filter.



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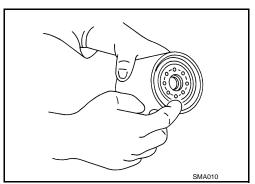
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INSTALLATION

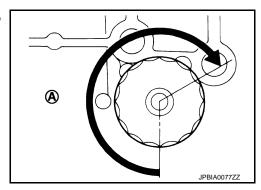
- 1. Remove foreign materials adhering to oil filter installation surface.
- 2. Apply engine oil to the oil seal contact surface of new oil filter.



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:

(1.8 kg-m, 13 ft-lb)



OIL FILTER: Inspection

INSPECTION AFTER INSTALLATION

- Check the engine oil level. Refer to <u>LU-6</u>, "Inspection".
- 2. Start the engine, and check there is no leakage of engine oil.
- 3. Stop the engine and wait for 10 minutes.
- Check the engine oil level, and adjust the level. Refer to <u>LU-6. "Inspection"</u>.

SPARK PLUG

SPARK PLUG: Removal and Installation

INFOID:0000000005153044

INFOID:0000000005153043

REMOVAL

- 1. Remove engine cover with power tool. Refer to EM-25, "Exploded View".
- 2. Remove air cleaner case and air duct (RH and LH). Refer to EM-27, "Exploded View".
- 3. Remove electric throttle control actuator. Refer to <a>EM-29, "Exploded View".
- 4. Remove ignition coil. Refer to EM-46, "Removal and Installation".

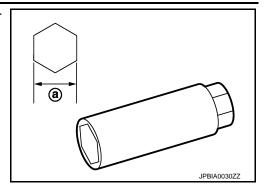
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< PERIODIC MAINTENANCE >

- Remove spark plug with a spark plug wrench (commercial service tool).
 - a : 14 mm (0.55 in)



INSTALLATION

Installation is the reverse order of removal.

SPARK PLUG: Inspection

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INSPECTION AFTER REMOVAL

Use the standard type spark plug for normal condition.

Spark plug (Standard type) : Refer to EM-138, "Spark Plug".

CAUTION:

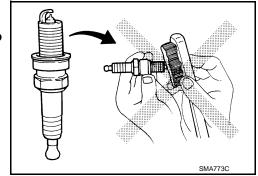
- Never drop or shock spark plug.
- Never use a wire brush for cleaning.
- If plug tip is covered with carbon, use spark plug cleaner to clean.

Cleaner air pressure

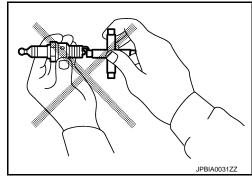
: Less than 588 kPa (6 kg/cm², 85 psi)

Cleaning time

: Less than 20 seconds



- Spark plug gap adjustment is not required between replacement intervals.
- Measure spark plug gap. When it exceeds the limit, replace spark plug even if it is within the specified replacement mileage. Refer to <u>EM-138</u>, "Spark Plug".



EVAP VAPOR LINES

EVAP VAPOR LINES: Inspection

INFOID:0000000004371112

- 1. Visually inspect EVAP vapor lines for improper attachment and for cracks, damage, loose connections, chafing and deterioration.
- Inspect fuel tank filler cap vacuum relief valve for clogging, sticking, etc.
 Refer to <u>EC-80</u>, "System Diagram".

< PERIODIC MAINTENANCE >

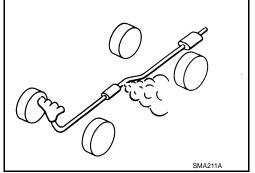
CHASSIS MAINTENANCE EXHAUST SYSTEM

EXHAUST SYSTEM: Inspection

INFOID:0000000005153047

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

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



GEAR OIL

GEAR OIL: Inspection

INFOID:0000000005153048

OIL LEAKAGE

Make sure that gear oil is not leaking from transmission or around it.

OIL LEVEL

- 1. Remove filler plug (1) and gasket from transmission case.
- 2. Check the oil level from filler plug mounting hole as shown in the figure.

CAUTION:

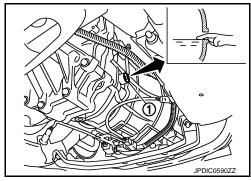
Never start engine while checking oil level.

Set a gasket on filler plug and then install it to transmission case.

CAUTION:

Never reuse gasket.

 Tighten filler plug to the specified torque. Refer to <u>TM-38</u>, <u>"Exploded View"</u>.



GEAR OIL: Draining

1. Start the engine and let it run to warm up transmission.

- 2. Stop the engine.
- 3. Remove drain plug and gasket from transmission case and then drain gear oil.
- 4. Set a gasket on drain plug and install it to transmission case.

CAUTION:

Never reuse gasket.

Tighten drain plug to the specified torque. Refer to <u>TM-38, "Exploded View"</u>.

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< PERIODIC MAINTENANCE >

GEAR OIL: Refilling

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- 1. Remove filler plug (1) and gasket from transmission case.
- Fill with new gear oil to transmission as shown in the figure.

Oil grade and : Refer to MA-10, "Fluids and Lubri-

viscosity <u>cants"</u>.

Oil capacity: Refer to TM-95, "General Specifica-

tions".

CAUTION:

Never reuse drained gear oil.

- After refilling gear oil, check the oil level. Refer to MA-19. "GEAR OIL: Inspection".
- 4. Set a gasket on filler plug and then install it to transmission case.

CAUTION:

Never reuse gasket.

5. Tighten filler plug to the specified torque. Refer to TM-38, "Exploded View".

CLUTCH FLUID

CLUTCH FLUID : Inspection

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FLUID LEAKAGE

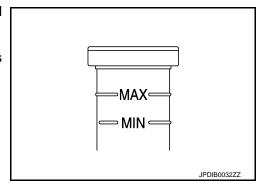
- Check clutch line (tubes and hoses) for cracks, deterioration or other damage. Replace any damaged parts.
- Check for fluid leakage by fully depressing clutch pedal while engine is running.

CAUTION:

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

FLUID LEVEL

- Check that the fluid level in the reservoir tank is within the specified range (MAX – MIN lines).
- Visually check for any fluid leakage around the reservoir tank.
- Check the clutch system for any leakage if the fluid level is extremely low (lower than MIN).



REAR PROPELLER SHAFT: 3S80A

REAR PROPELLER SHAFT: 3S80A: Inspection

INFOID:0000000005153052

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.

< PERIODIC MAINTENANCE >

1. Measure propeller shaft runout at several points by rotating final drive companion flange with hands.

Limit

Propeller shaft runout : Refer to <u>DLN-10</u>, "<u>Propeller Shaft Runout</u>".

- If runout still exceeds specifications, separate propeller shaft at final drive companion flange; then rotate companion flange 90, 180, 270 degrees and install propeller shaft.
- 3. Check runout again. If runout still exceeds specifications, replace propeller shaft assembly.
- 4. Check the vibration by driving vehicle.

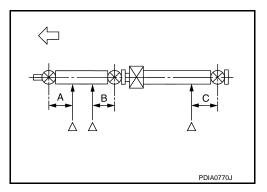
RUNOUT MEASURING POINT

Propeller shaft runout measuring point (Point "△").

: Vehicle front

Dimension A: 192 mm (7.56 in)

B: 172 mm (6.77 in) C: 170 mm (6.69 in)



REAR PROPELLER SHAFT: 3S80A-R

REAR PROPELLER SHAFT: 3S80A-R: 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.

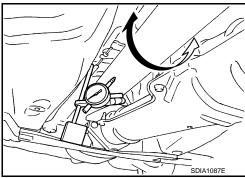
1. Measure propeller shaft runout at several points by rotating final drive companion flange with hands.

Limit

Propeller shaft runout : Refer to <u>DLN-18, "Propeller Shaft Runout".</u>

- If runout still exceeds specifications, separate propeller shaft at final drive companion flange; then rotate companion flange 120, 240 degrees and install propeller shaft.
- 3. Check runout again. If runout still exceeds specifications, replace propeller shaft assembly.
- 4. Check the vibration by driving vehicle.

RUNOUT MEASURING POINT



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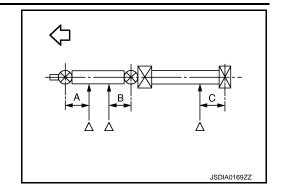
< PERIODIC MAINTENANCE >

Propeller shaft runout measuring point (Point "△").

Dimension A: 192 mm (7.56 in)

B: 172 mm (6.77 in)

C: 172 mm (6.77 in)



REAR DIFFERENTIAL GEAR OIL: R200

REAR DIFFERENTIAL GEAR OIL: R200 : Inspection

INFOID:0000000005153054

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.

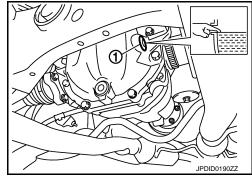
CAUTION:

Never start engine while checking oil level.

Set a gasket on filler plug (1) and install it on final drive assembly.
 Refer to <u>DLN-47</u>, "<u>M/T</u>: <u>Exploded View</u>" (M/T), <u>DLN-60</u>. "A/T: <u>Exploded View</u>" (A/T).

CAUTION:

Never reuse gasket.

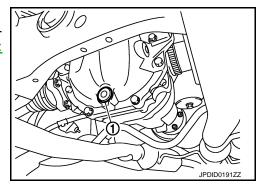


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REAR DIFFERENTIAL GEAR OIL: R200 : Draining

- 1. Stop the engine.
- Remove drain plug (1) and drain gear oil.
- Set a gasket on drain plug (1) and install it to final drive assembly and tighten to the specified torque. Refer to <u>DLN-47</u>, "<u>M/T</u>: <u>Exploded View</u>" (M/T), <u>DLN-60</u>, "A/T: <u>Exploded View</u>" (A/T). CAUTION:

Never reuse gasket.



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REAR DIFFERENTIAL GEAR OIL: R200: Refilling

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

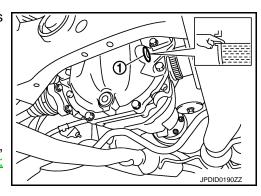
Oil grade and viscosity : Refer to MA-10, "Fluids

and Lubricants".

Oil capacity : Refer to <u>DLN-91, "General</u>

Specification".

2. After refilling oil, check oil level. Set a gasket to filler plug (1), then install it to final drive assembly. Refer to DLN-47, "M/T : <a href="Exploded View" (A/T).



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< PERIODIC MAINTENANCE >

CAUTION:

Never reuse gasket.

WHEELS (BONDING WEIGHT TYPE)

WHEELS (BONDING WEIGHT TYPE): Adjustment

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BALANCING WHEELS (BONDING WEIGHT TYPE)

Preparation Before Adjustment

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 traces of releasing agent from the road wheel.

Wheel Balance Adjustment

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.
- 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 to the designated outer position of, or at the designated angle in relation to the road wheel.

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.
- a. Indicated unbalance value \times 5/3 = balance weight to be installed **Calculation example:**

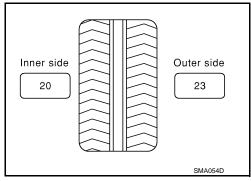
23 g (0.81 oz) \times 5/3 = 38.33 g (1.35 oz) \Rightarrow 37.5 g (1.32 oz) balance weight (closer to calculated balance weight value)

NOTF:

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

Example:

 $36.2 \Rightarrow 35 \text{ g (1.23 oz)}$ $36.3 \Rightarrow 37.5 \text{ g (1.32 oz)}$



b. Installed balance weight in the position.

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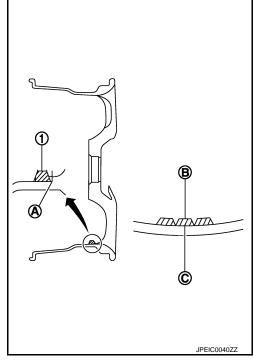
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< PERIODIC MAINTENANCE >

 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.
- Do not install more than three 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:

Do not install one balance weight sheet on top of another.

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

Do not install more than two balance weight.

- 5. Start the tire balance machine. Make sure that inner and outer residual unbalance values are 5 g (0.17 oz) each or below.
- 6. If either residual unbalance value exceeds 5 g (0.17 oz), repeat installation procedures.



Dynamic (At flange) : Refer to <u>WT-104, "Road Wheel"</u>.

Static (At flange) : Refer to <u>WT-104, "Road Wheel"</u>.

TIRE ROTATION

Tire cannot be rotated in vehicle, as front tire are different size from rear tire and the direction of wheel rotation is fixed in each tire.

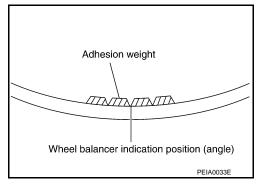
Wheel nuts tighting torque : Refer to WT-104, "Road Wheel".

CAUTION:

- Never include the T-type spare tire when rotating the tires.
- Use NISSAN genuine wheel nuts for aluminum wheels.

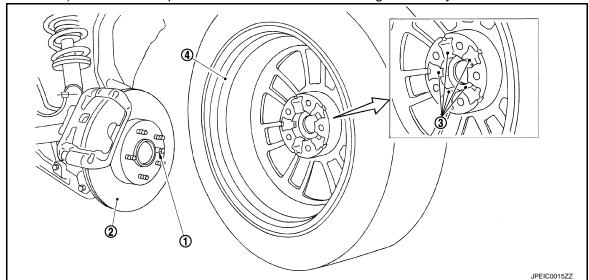
Safety Device Preventing from Being Incorrectly installed

FRONT BRAKE DISC ROTOR AND FRONT WHEEL



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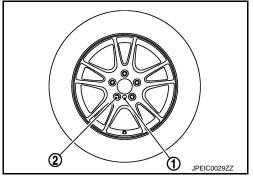
• Front and rear wheel size for this model differs, therefore special pin (1) is adopted to the front brake disc rotor (2). And a hole (3) that matches to this pin is adopted to the front wheel (4) (the rear wheel does not have this wheel). This structure prevents the rear wheel from being mistakenly installed on the front.



T-TYPE SPARE TIRE WHEEL

Regarding spare tire (for emergency) wheel, wrong assembly protection pin through hole (1) has been set in addition to regular bolt holes (2) in order to enable installation to front wheel.
 NOTE:

Protection pin through hole of 18 inch spare wheel is non-through type.



EMERGENCY TIRE PUNCTURE REPAIR KIT : Draining

DRAINING

CAUTION:

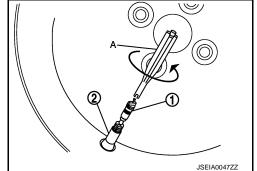
Never spill the sealant in the tire.

- 1. Remove tires.
- 2. Remove the valve core (1) from the transmitter (2) using a core wrench (A), and then bleed air.

CAUTION:

Cover the valve using a waste cloth to prevent the sealant from being splashed.

3. Separate transmitter from wheel.



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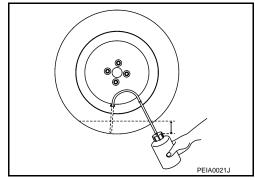
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- 4. Install the filling hose to the empty bottle, and then insert the extension hose for draining into the end of filling hose.
- Insert the hose through the hole, and then prop the tire and further insert the hose until the end of hose sinks under the sealant level.
- 6. Suck out the sealant by compressing the bottle.

NOTE:

Place the tire on the proper workbench and hold it higher than the bottle to suck the sealant out easily.

Repeat the procedure until the sealant cannot be sucked out while changing the position of hose end.



AFTER DRAINING

NOTE:

The aerosol-type sealant closes off the blowout hole. Therefore, the blowout hole may not be discovered according to the extent of damage, resulting the difficulty of blow out repair. In this case, check the tire pressure thoroughly, and then replace with new tire if the tire pressure decreases.

- Remove the tire from the wheel, and then wipe out the sealant on the tire and wheel.
- Replace transmitter. Refer to WT-101, "Exploded View".

CAUTION:

Never reuse the transmitter.

Perform the blowout repair if it is possible. Replace with new tire if the blowout repair is impossible.
 CAUTION:

Never discard the tire with the sealant applied.

• Treat the sealant drained as waste oil.

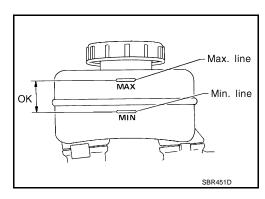
BRAKE FLUID LEVEL AND LEAKS

BRAKE FLUID LEVEL AND LEAKS: Inspection

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

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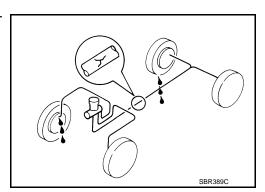
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BRAKE LINES AND CABLES

BRAKE LINES AND CABLES: Inspection

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



BRAKE FLUID

< PERIODIC MAINTENANCE >

BRAKE FLUID: Changing

1. Drain brake fluid from each bleed valve.

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

Refer to BR-12, "Bleeding Brake System".

- Refill with recommended Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 (US FMVSS No. 116). Refer to MA-10, "Fluids and Lubricants".
- Never reuse drained brake fluid.
- · Be careful not to splash brake fluid on painted areas.

DISC BRAKE

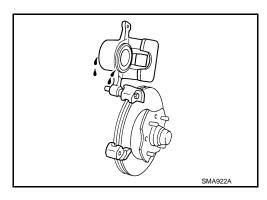
DISC BRAKE: Inspection

DISC ROTOR

Check condition, wear, and damage.

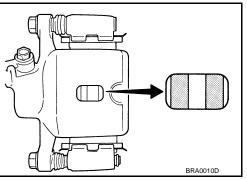
CALIPER

Check for leakage.



BRAKE PAD

· Check for wear or damage.



DISC BRAKE: Front Disc Brake

1 PISTON TYPE

		Unit: mm (in)
	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	30.0 (1.181)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.035 (0.0014)

4 PISTON TYPE

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		Unit: mm (in)
	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	30.0 (1.181)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.035 (0.0014)

DISC BRAKE: Rear Disc Brake

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1 PISTON TYPE

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	15.0 (0.591)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

2 PISTON TYPE

Unit: mm (in)

		Since their (iii)
Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	18.0 (0.709)
Disc rotor	Thickness variation (measured at 8 positions)	0.015 (0.0006)
	Runout (with it attached to the vehicle)	0.055 (0.0022)

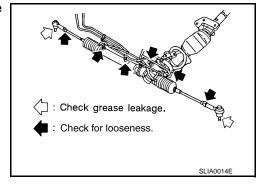
STEERING GEAR AND LINKAGE

STEERING GEAR AND LINKAGE: Inspection

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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. POWER STEERING FLUID AND LINES

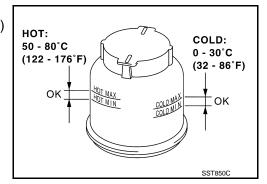
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POWER STEERING FLUID AND LINES: Inspection

Check fluid level in reservoir tank with engine off.
Use "HOT" range at fluid temperatures of 50 to 80°C (122 to 176°F) or "COLD" range at fluid temperatures of 0 to 30°C (32 to 86°F).

CAUTION:

- Do not overfill.
- Recommended fluid is Genuine NISSAN PSF or equivalent.
 Refer to MA-10, "Fluids and Lubricants".



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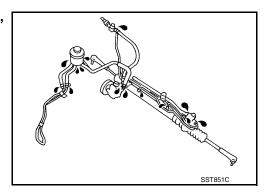
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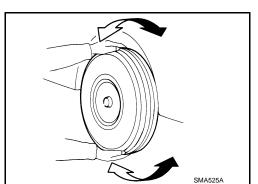
- Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.
- Check rack boots for accumulation of power steering fluid.

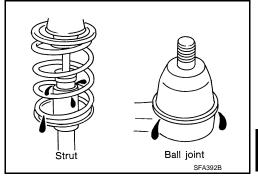


AXLE AND SUSPENSION PARTS : Inspection

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.





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BODY MAINTENANCE

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BODY MAINTENANCE

LOCKS, HINGES AND HOOD LATCH

LOCKS, HINGES AND HOOD LATCH: Lubricating

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For hood lock illustration. Refer to <u>DLK-279</u>, "HOOD ASSEMBLY: Exploded View" and <u>DLK-282</u>, "HOOD <u>LOCK CONTROL</u>: Exploded View".

For door lock illustration. Refer to DLK-289, "DOOR ASSEMBLY: Exploded View".

For trunk lid lock illustration. Refer to DLK-294, "TRUNK LID ASSEMBLY: Exploded View".

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS: Inspection

For front seat belt illustration. Refer to <u>SB-6, "SEAT BELT RETRACTOR: Exploded View"</u>. For rear seat belt illustration. Refer to <u>SB-11, "SEAT BELT RETRACTOR: Exploded View"</u>. **CAUTION:**

 After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (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.

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 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.
- Use a genuine NISSAN seat belt assembly.

For details, refer to <u>SB-4, "SEAT BELT RETRACTOR: Inspection"</u>, <u>SB-9, "SEAT BELT RETRACTOR: 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)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

DRIVE BELTS

DRIVE BELTS: Drive Belt

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DRIVE BELT

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

ENGINE COOLANT: Periodical Maintenance Specification

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ENGINE COOLANT CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

Engine coolant capacity [With reservoir tank ("MAX" level)]	A/T models	8.5 (9, 7-1/2)
	M/T models	8.6 (9-1/8, 7-5/8)
Reservoir tank engine coolant capacity (At "MAX" level)		0.8 (7/8, 3/4)

ENGINE OIL

ENGINE OIL: Periodical Maintenance Specification

INFOID:0000000005153062

ENGINE OIL CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

Drain and refill	With oil filter change	4.9 (5-1/8, 4-1/4)
	Without oil filter change	4.6 (4-7/8, 4)
Dry engine (Overhaul)		5.7 (6, 5)

SPARK PLUG

SPARK PLUG: Spark Plug

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SPARK PLUG

Unit: mm (in)

Make		DENSO
Standard type		FXE24HR11
Gap (Nominal)	Standard	1.1 (0.043)
	Limit	1.4 (0.055)

ROAD WHEEL

ROAD WHEEL: Road Wheel

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CONVENTIONAL

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Item		Limit
Radial runout	Lateral deflection	Less than 0.3 mm (0.012 in)
Radiai Turiout	Vertical deflection	Less than 0.3 mm (0.012 m)
Allowable unbalance	Dynamic (At flange)	Less than 5 g (0.17 oz) (one side)
Allowable dilibalarice	Static (At flange)	Less than 10 g (0.35 oz)

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SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

EMERGENCY

Item		Limit
Radial runout	Lateral deflection	Less than 1.5 mm (0.059 in)
Tadiai Turiodi	Vertical deflection	2033 than 1.3 mm (0.000 m)