

SECTION MA

MAINTENANCE

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PRECAUTIONS

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SERVICE INFORMATION

PRECAUTIONS

Precaution for Battery Service

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Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

PREPARATION

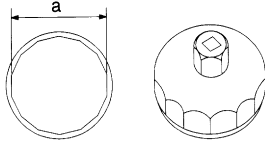
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PREPARATION

Special Service Tool

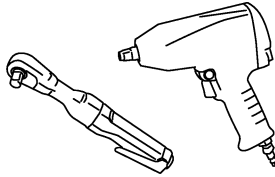
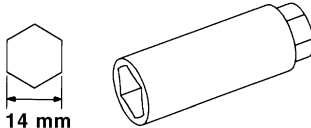
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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
KV10115801 (J38956) Oil filter wrench	Removing and installing oil filter a: 64.3 mm (2.531 in)
 S-NT375	

Commercial Service Tool

INFOID:000000001647714

(Kent-Moore No.) Tool name	Description
Power tool	Loosening bolts and nuts
 PBIC0190E	
Spark plug wrench	Removing and installing spark plug
 14 mm (0.55 in) PBIC3874E	

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GENERAL MAINTENANCE

< SERVICE INFORMATION >

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 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	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	—
Tire rotation	Tires cannot be rotated in this vehicle, as front tires are different size from rear tires and the direction of wheel rotation is fixed in each tire.	MA-24
Tire Pressure Monitoring System (TPMS) transmitter components	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	WT-9
Wheel alignment and balance	If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	MA-22 , FSU-5
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	—
Windshield wiper blades	Check for cracks or wear if they do not wipe properly.	—
Doors and engine hood	Check that all doors and the engine hood operate 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-27
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. 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 restraints move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks.	—
Seat belts	Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-28

GENERAL MAINTENANCE

< SERVICE INFORMATION >

Item		Reference page
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.	—
Clutch Pedal	Make sure the pedal operates smoothly and check it has the proper free play.	—
Brakes	Check that the brake does not pull the vehicle to one side when applied.	—
Brake pedal and booster	Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-7 , BR-23
Parking brake	Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	PB-3
Automatic transmission "Park" mechanism	Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the selector lever in the "P" position without applying any brakes.	—

UNDER THE HOOD AND VEHICLE

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

Item		Reference page
Windshield washer fluid	Check that there is adequate fluid in the tank.	—
Engine coolant level	Check the coolant level when the engine is cold.	MA-12
Radiator and hoses	Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.	—
Brake and clutch fluid levels	Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir(s).	MA-24 , MA-19
Battery	Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	—
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	MA-12
Engine oil level	Check the level on oil level gauge after parking the vehicle on a level spot and turning off the engine.	MA-15
Power steering fluid level and lines	Check the level on the dipstick with the engine off. Check the lines for improper attachment, leaks, cracks, etc.	MA-26
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	The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt can easily accumulate.	—
Fluid leaks	Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or gasoline fumes are evident, check for the cause and correct it immediately.	—

PERIODIC MAINTENANCE

< SERVICE INFORMATION >

PERIODIC MAINTENANCE

Introduction of Periodic Maintenance

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

Schedule 1	Follow Periodic Maintenance Schedule 1 if the driving habits frequently include one or more of the following driving conditions: - 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.	Emission Control System Maintenance	MA-6
		Chassis and Body Maintenance	MA-6
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	MA-8
		Chassis and Body Maintenance	MA-8

Schedule 1

INFOID:000000001647717

EMISSION CONTROL SYSTEM MAINTENANCE

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Drive belts	NOTE (1)									MA-12
Air cleaner filter	NOTE (2)								[R]	MA-15
EVAP vapor lines									I*	MA-18
Fuel lines									I*	MA-15
Fuel filter	NOTE (3)									-
Engine coolant	NOTE (4)									MA-12
Engine oil		R	R	R	R	R	R	R	R	MA-15
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)		Replace every 105,000 miles (169,000 km).								MA-17
Intake & exhaust valve clearance*	NOTE (5)									EM-80

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Drive belts	NOTE (1)								I*	MA-12
Air cleaner filter	NOTE (2)								[R]	MA-15
EVAP vapor lines									I*	MA-18
Fuel lines									I*	MA-15

PERIODIC MAINTENANCE

< SERVICE INFORMATION >

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	
Fuel filter	NOTE (3)									-
Engine coolant	NOTE (4)								R*	MA-12
Engine oil		R	R	R	R	R	R	R	R	MA-15
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)		Replace every 105,000 miles (169,000 km).								MA-17
Intake & exhaust valve clear- ance*	NOTE (5)									EM-80

NOTE:

- (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. Replace the drive belts if found damaged or if the auto belt tensioner reading reaches maximum limit.
- (2) If operating mainly in dusty conditions, more frequent maintenance may be required.
- (3) Maintenance-free item. For service procedures, refer to FL section.
- (4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (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								Reference Section - Page or - Con- tent Title
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	
Brake lines & cables					I				I	MA-24
Brake pads & rotors			I		I		I		I	MA-24
Automatic transmission flu- id, manual transmission & differential gear oil	NOTE (1)				I				I	MA-19 , MA-21 , MA-19 , MA-22
Steering gear & linkage, axle & suspension parts			I		I		I		I	MA-25 , RSU-5 , MA-26
Tire rotation	NOTE (2)									MA-4 , MA-24
Exhaust system			I		I		I		I	MA-19

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Brake lines & cables					I				I	MA-24
Brake pads & rotors			I		I		I		I	MA-24

PERIODIC MAINTENANCE

< SERVICE INFORMATION >

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Automatic transmission fluid, manual transmission & differential gear oil	NOTE (1)				I				I	MA-19 , MA-21 , MA-19 , MA-22
Steering gear & linkage, axle & suspension parts			I		I		I		I	MA-25 , RSU-5 , MA-26
Tire rotation	NOTE (2)									MA-4 , MA-24
Exhaust system			I		I		I		I	MA-19

NOTE:

(1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months. **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 NISSAN new vehicle limited warranty.**

(2) Tires cannot be rotated in this vehicle. Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.

Schedule 2

INFOID:000000001647718

EMISSION CONTROL SYSTEM MAINTENANCE

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Drive belts	NOTE (1)								I*	MA-12
Air cleaner filter					[R]				[R]	MA-15
EVAP vapor lines					I*				I*	MA-18
Fuel lines					I*				I*	MA-15
Fuel filter	NOTE (2)									-
Engine coolant	NOTE (3)								R*	MA-12
Engine oil		R	R	R	R	R	R	R	R	MA-15
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)		Replace every 105,000 miles (169,000 km).								MA-17
Intake & exhaust valve clearance*	NOTE (4)									EM-80

NOTE:

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

PERIODIC MAINTENANCE

< SERVICE INFORMATION >

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
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	
Brake lines & cables			I		I		I		I	MA-24
Brake pads & rotors			I		I		I		I	MA-24
Automatic transmission fluid, manual transmission & differential gear oil	NOTE (1)		I		I		I		I	MA-19 , MA-19 , MA-22
Steering gear & linkage, axle & suspension parts					I				I	MA-25 , RSU-5 , MA-26
Tire rotation	NOTE (2)									MA-4 , MA-24
Exhaust system					I				I	MA-19

NOTE:

(1) 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 NISSAN new vehicle limited warranty.

(2) Tires cannot be rotated in this vehicle. Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.

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RECOMMENDED FLUIDS AND LUBRICANTS

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RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

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		Capacity (Approximate)			Recommended Fluids/Lubricants
		US measure	Imp measure	Liter	
Engine oil Drain and refill	With oil filter change	5-1/8 qt	4-1/4 qt	4.9	- Engine oil with API Certification Mark*¹ - Viscosity SAE 5W-30
	Without oil filter change	4-7/8 qt	4 qt	4.6	
Dry engine (Overhaul)		5-3/4 qt	4-7/8 qt	5.5	
Cooling system	With reservoir tank	9-1/2 qt	7-7/8 qt	9.0	Genuine NISSAN Long Life Antifreeze/ Coolant or equivalent
	Reservoir tank	7/8 qt	3/4 qt	0.8	
Automatic transmission fluid		10-7/8 qt	9-1/8 qt	10.3	Genuine NISSAN Matic J ATF* ²
Manual transmission gear oil		6-1/4 pt	5-1/8 pt	2.93	Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 or API GL-4, Viscosity SAE 75W-85 or 75W-90
Power steering fluid (PSF)		1-1/8 qt	7/8 qt	1.0	Genuine NISSAN PSF or equivalent* ³
Brake and clutch fluid		—	—	—	Genuine NISSAN Super Heavy Duty Brake Fluid* ⁴ or equivalent DOT 3 (US FMVSS No. 116)
Differential gear oil		3 pt	2-1/2 pt	1.4	Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5, Viscosity SAE 80W-90* ⁵
Multi-purpose grease		—	—	—	NLGI No. 2 (Lithium soap base)
Windshield washer fluid		—	—	—	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent
Fuel recommendation		—	—	—	Refer to GI-4, "Precaution for Fuel (Unleaded Premium Gasoline Required)" .

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

*2: **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 NISSAN new vehicle limited warranty.**

*3: Canada NISSAN Automatic Transmission Fluid or DEXRON™ VI type ATF may also be used.

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

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

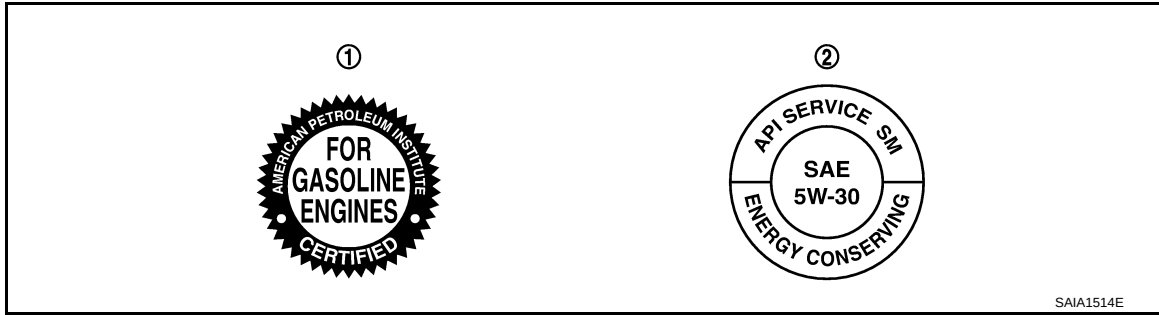
Engine Oil Recommendation

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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.

RECOMMENDED FLUIDS AND LUBRICANTS

< SERVICE INFORMATION >



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.

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

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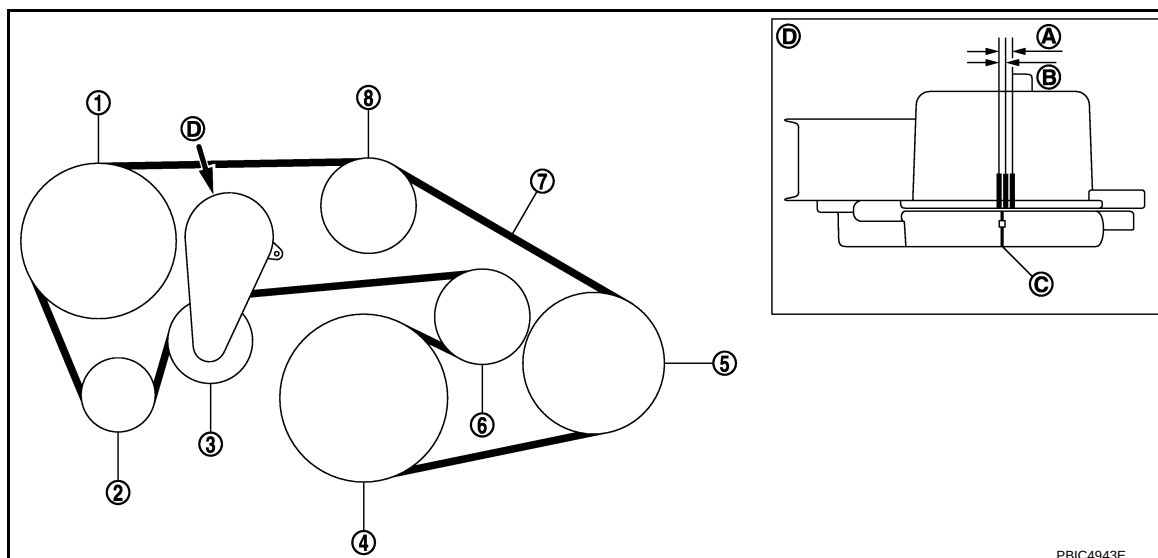
ENGINE MAINTENANCE

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ENGINE MAINTENANCE

Checking Drive Belts

INFOID:000000001647721



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|----------------------------|---|------------------------------|
| 1. Power steering oil pump | 2. Alternator | 3. Drive belt auto-tensioner |
| 4. Crankshaft pulley | 5. A/C compressor | 6. Idler pulley |
| 7. Drive belt | 8. Idler pulley | |
| A. Possible use range | B. Range when new drive belt is installed | C. Indicator |
| D. View D | | |

WARNING:

Be sure to perform this step when engine is stopped.

- Make sure 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 (C) (notch on fixed side) should be within the range (B) in the figure.
- Visually check entire drive belt for wear, damage or cracks.
- If the indicator (C) (notch on fixed side) is out of the possible use range or belts is damaged, replace drive belt.

Tension Adjustment

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

Changing Engine Coolant

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WARNING:

- To avoid being scalded, do not change engine coolant when engine is hot.
- Wrap a thick cloth around cap and carefully remove cap. First, turn cap a quarter of a turn to release built-up pressure. Then turn cap all the way.
- Be careful not to allow engine coolant to contact drive belts.

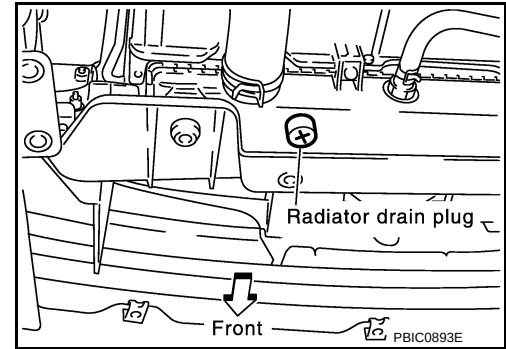
DRAINING ENGINE COOLANT

1. Remove undercover with power tool.

ENGINE MAINTENANCE

< SERVICE INFORMATION >

- Open radiator drain plug at the bottom of radiator, and then remove radiator cap.



When drain all of engine coolant in the system, open water drain plugs on engine cylinder block. Refer to [EM-106, "Disassembly and Assembly"](#).

- Remove reservoir tank as 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 "FLUSHING COOLING SYSTEM".

REFILLING ENGINE COOLANT

- Install reservoir tank, and radiator drain plug.

CAUTION:

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

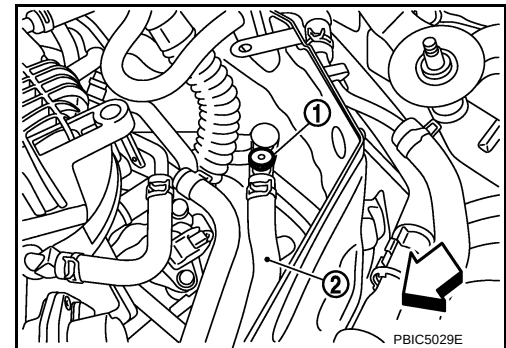
Radiator drain plug:

 : 1.2 N·m (0.12 kg-m, 11 in-lb)

If water drain plugs on cylinder block are removed, close and tighten them. Refer to [EM-106, "Disassembly and Assembly"](#).

- Make sure that each hose clamp has been firmly tightened.
- Remove air relief plug (1) on heater hose (2).

← : Vehicle front

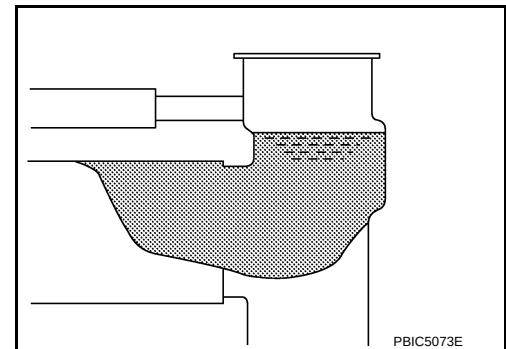


- Fill radiator and reservoir tank to specified level.
 - Pour engine coolant through engine coolant filler neck slowly of less than 2 ℓ (2-1/8 US qt, 1-3/4 Imp qt) a minute to allow air in system to escape.
 - Use Genuine NISSAN Long Life Antifreeze/Coolant or equivalent mixed with water (distilled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

Engine coolant capacity

(with reservoir tank at "MAX" level)

: Approx. 9.0 ℓ (9-1/2 US qt, 7-7/8 Imp qt)



ENGINE MAINTENANCE

< SERVICE INFORMATION >

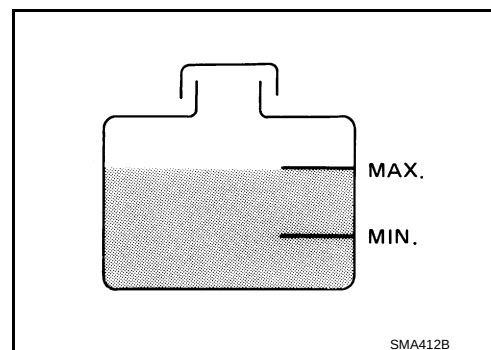
Reservoir tank capacity (at "MAX" level)

: 0.8 ℓ (7/8 US qt, 3/4 Imp qt)

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

Air relief plug:

 : 1.2 N·m (0.12 kg-m, 11 in-lb)



5. Install radiator cap.
 6. Warm up until opening thermostat. Standard for warming-up time is approximately 10 minutes at 3,000 rpm.
 - Make sure thermostat condition by touching radiator hose (lower) to see flow of warm water.
- CAUTION:**
Watch water temperature gauge so as not to overheat engine.
7. Stop 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.
 8. Refill reservoir tank to "MAX" level line with engine coolant.
 9. Repeat steps 4 through 7 two or more times with radiator cap installed until engine coolant level no longer drops.
 10. Check cooling system for leaks with engine running.
 11. Warm up 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.
 12. Repeat step 11 three times.
 13. If sound is heard, bleed air from cooling system by repeating step 4 through 7 until engine coolant level no longer drops.
 - **Clean excess engine coolant from engine.**

FLUSHING COOLING SYSTEM

1. Install reservoir tank, and radiator drain plug.

CAUTION:

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

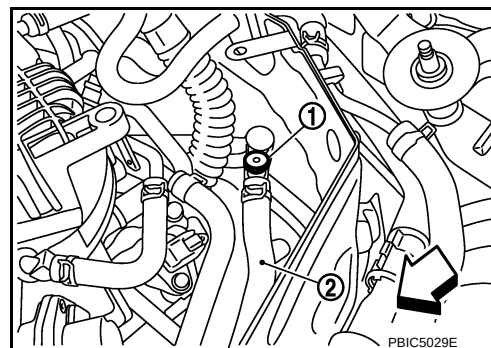
Radiator drain plug:

 : 1.2 N·m (0.12 kg-m, 11 in-lb)

If water drain plugs on cylinder block are removed, close and tighten them. Refer to [EM-106, "Disassembly and Assembly"](#).

2. Remove air relief plug (1) on heater hose (2).

⇐ : Vehicle front



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.

ENGINE MAINTENANCE

< SERVICE INFORMATION >

Air relief plug:

 : 1.2 N·m (0.12 kg-m, 11 in-lb)

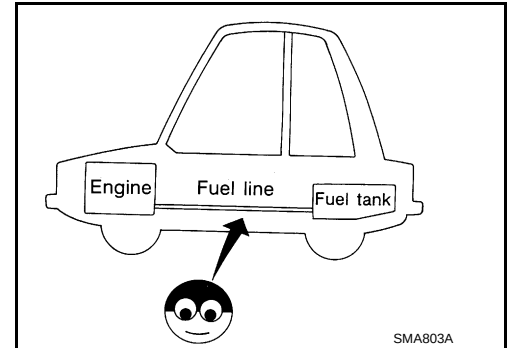
4. Run engine and warm it up to normal operating temperature.
5. Rev engine two or three times under no-load.
6. Stop engine and wait until it cools down.
7. Drain water from the system. Refer to "DRAINING ENGINE COOLANT".
8. Repeat steps 1 through 7 until clear water begins to drain from radiator.

Checking Fuel Line

INFOID:000000001647724

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.

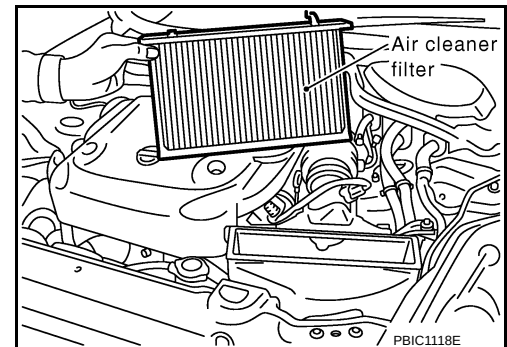


Changing Air Cleaner Filter

INFOID:000000001647725

VISCOUS PAPER TYPE

The viscous paper type filter does not need cleaning between replacement intervals. Refer to [MA-6](#).



Changing Engine Oil

INFOID:000000001647726

WARNING:

- Be careful not to 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.

1. Warm up engine, put vehicle horizontally and check for oil leakage from engine components. Refer to [LU-5, "Inspection"](#).
2. Stop engine and wait for 10 minutes.
3. Loosen oil filler cap and then remove drain plug.
4. Drain engine oil.
5. Install drain plug with new washer. Refer to [EM-27](#).

CAUTION:

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

Oil pan drain plug:

 : 34.3 N·m (3.5 kg-m, 25 ft-lb)

ENGINE MAINTENANCE

< SERVICE INFORMATION >

6. Refill with new engine oil.
Engine oil specification and viscosity:
Refer to [MA-10](#).

Engine oil capacity (Approximate):

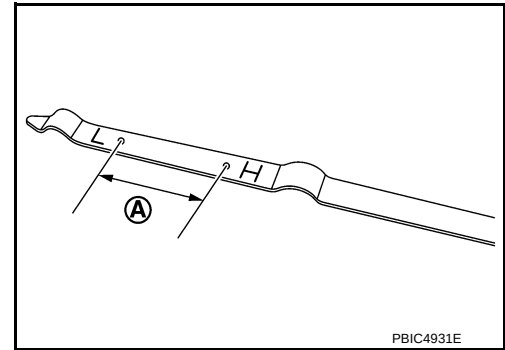
Unit: ℓ (US qt, Imp qt)

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)		5.5 (5-3/4, 4-7/8)

CAUTION:

- When filling engine oil, do not 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 the engine.
7. Warm up engine and check area around drain plug and oil filter for oil leakage.
8. Stop engine and wait for 10 minutes.
9. Check the engine oil level.

A : Make sure that the oil level is between “L” and “H”



Changing Oil Filter

INFOID:000000001647727

REMOVAL

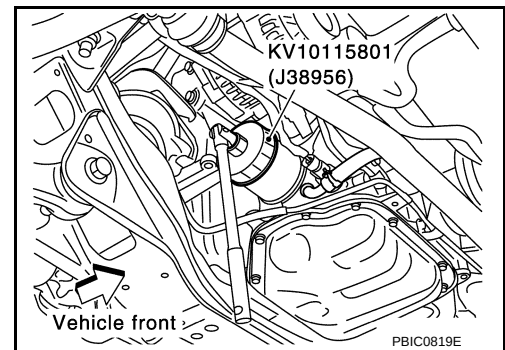
WARNING:

Be careful not to get burned when engine and engine oil may be hot.

1. Remove undercover with power tool.
2. Using oil filter wrench [SST], remove oil filter.

CAUTION:

- Oil filter is provided with relief valve. Use genuine NISSAN engine oil filter or equivalent.
- When removing, prepare a shop cloth to absorb any engine oil leakage or spillage.
- Do not allow engine oil to adhere to drive belts.
- Completely wipe off any engine oil that adheres to engine and vehicle.



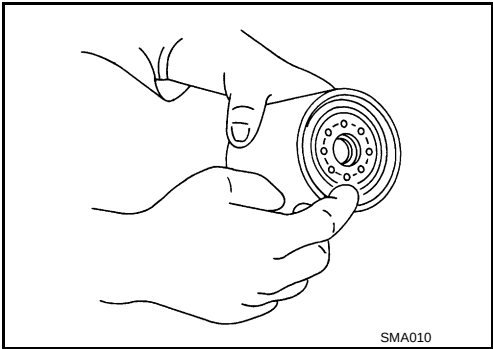
INSTALLATION

1. Remove foreign materials adhering to oil filter installation surface.

ENGINE MAINTENANCE

< SERVICE INFORMATION >

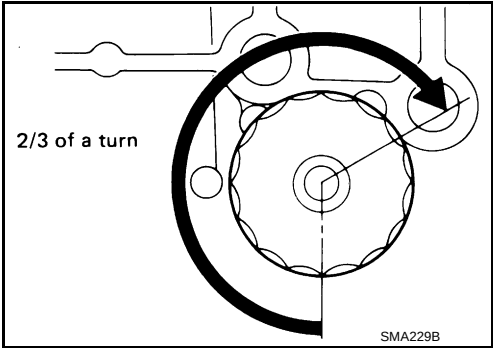
2. Apply engine oil to the oil seal contact surface of new oil filter.



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

Oil filter:

: 17.7 N·m (1.8 kg-m, 13 ft-lb)



INSPECTION AFTER INSTALLATION

- 1. Check the engine oil level. Refer to [MA-15, "Changing Engine Oil"](#).
- 2. Start engine, and check there is no leak of engine oil.
- 3. Stop engine and wait for 10 minutes.
- 4. Check the engine oil level and adjust engine oil. Refer to [MA-15, "Changing Engine Oil"](#).

Changing Spark Plugs (Iridium-Tipped Type)

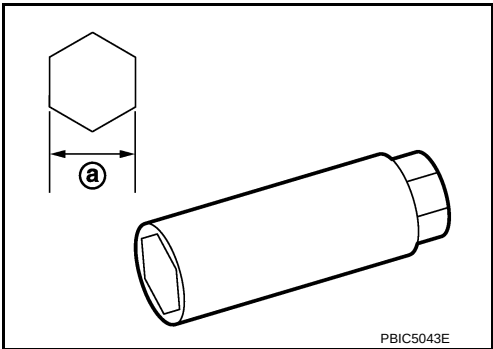
INFOID:000000001647728

REMOVAL

- 1. Remove engine cover with power tool. Refer to [EM-18](#).
- 2. Remove ignition coil. Refer to [EM-32](#).
- 3. Remove spark plug using spark plug wrench (commercial service tool).

CAUTION:
Do not drop or shock it.

a : 14 mm (0.55 in)



INSPECTION AFTER REMOVAL

Make	DENSO
Standard type	FXE22HR-11

Gap (Nominal) : 1.1 mm (0.043 in)

CAUTION:
• Do not drop or shock spark plug.

ENGINE MAINTENANCE

< SERVICE INFORMATION >

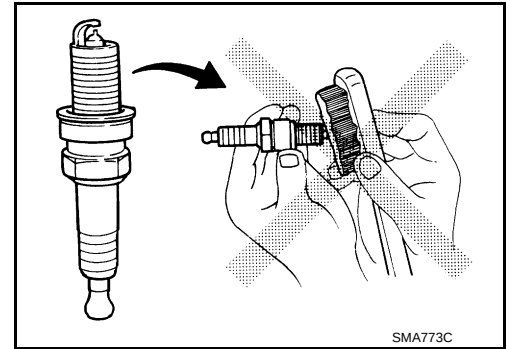
- Do not use wire brush for cleaning.
- If plug tip is covered with carbon, spark plug cleaner may be used.

Cleaner air pressure:

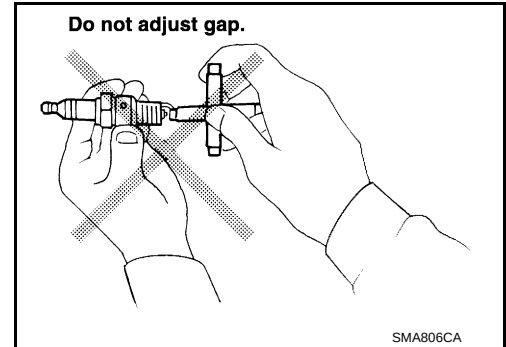
Less than 588 kPa (6 kg/cm² , 85 psi)

Cleaning time:

Less than 20 seconds



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



INSTALLATION

Installation is the reverse order of removal.

Spark plug:

 : 19.6 N·m (2.0 kg-m, 14 ft-lb)

Checking EVAP Vapor Line

INFOID:000000001647729

1. Visually inspect EVAP vapor lines for improper attachment and for cracks, damage, loose connections, chafing and deterioration.
2. Inspect fuel tank filler cap vacuum relief valve for clogging, sticking, etc.

Refer to [EC-31](#).

CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

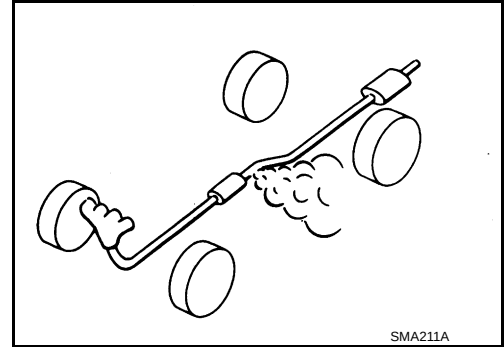
CHASSIS AND BODY MAINTENANCE

Checking Exhaust System

INFOID:000000001647730

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

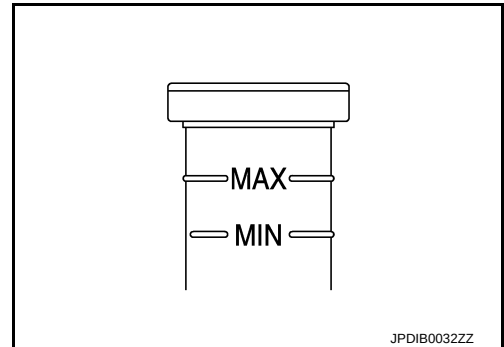
- If anything is found, repair or replace damaged parts.



Checking Clutch Fluid Level and Leaks

INFOID:000000001647731

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



Checking M/T Oil

INFOID:000000001647732

Check for oil leakage.

Changing M/T Oil

INFOID:000000001647733

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

Oil grade and viscosity: Refer to [MA-10](#).

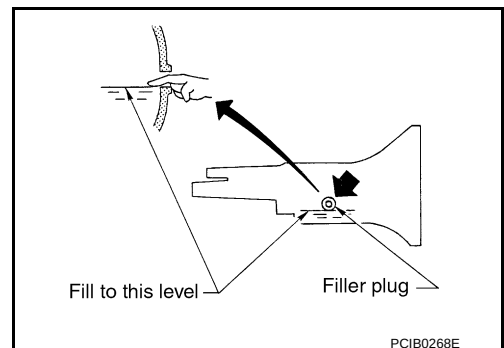
Oil capacity: Approx. 2.93 ℓ (6-1/4 US pt, 5-1/8 Imp pt)

Filler plug and drain plug:

: 34.5 N·m (3.5 kg-m, 25 ft-lb)

CAUTION:

Do not reuse gasket.



Checking A/T Fluid

INFOID:000000001647734

1. Warm up engine.
2. Check for A/T fluid leakage.
3. Loosen the level gauge bolt.

CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

4. Before driving, A/T fluid level can be checked at A/T fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on A/T fluid level gauge as follows.
 - a. Park vehicle on level surface and set parking brake.
 - b. Start engine and move selector lever through each gear position. Leave selector lever in "P" position.
 - c. Check A/T fluid level with engine idling.
 - d. Remove A/T fluid level gauge and wipe clean with lint-free paper.

CAUTION:

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

- e. Re-insert A/T fluid level gauge into A/T fluid charging pipe as far as it will go.

CAUTION:

To check A/T fluid level, insert the A/T fluid level gauge until the cap contacts the end of the A/T fluid charging pipe, with the A/T fluid level gauge reversed from the normal attachment conditions.

- f. Remove A/T fluid level gauge and note reading. If reading is at low side of range, add ATF to the A/T fluid charging pipe.

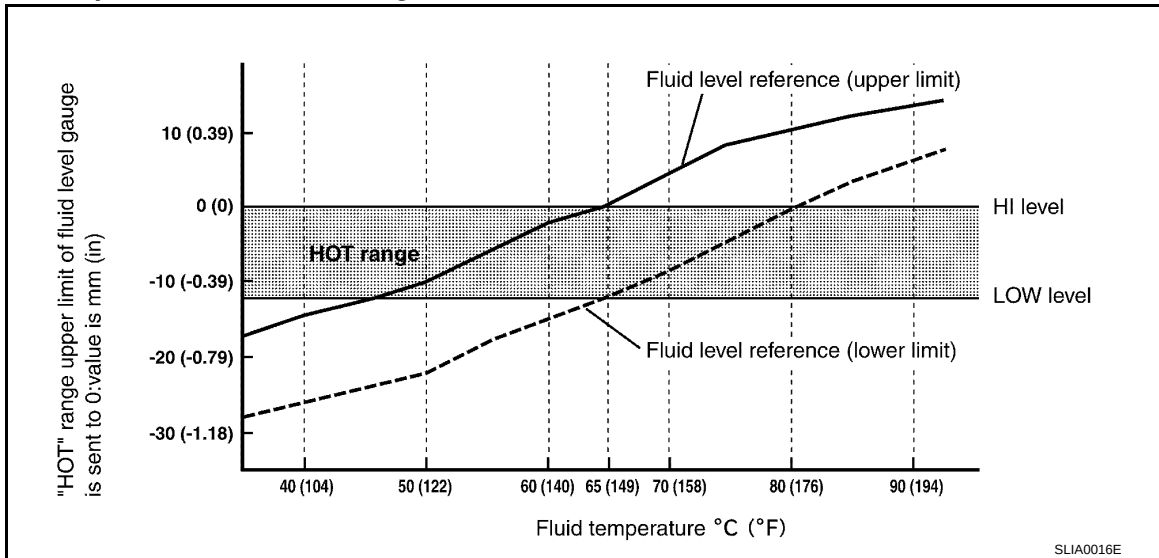
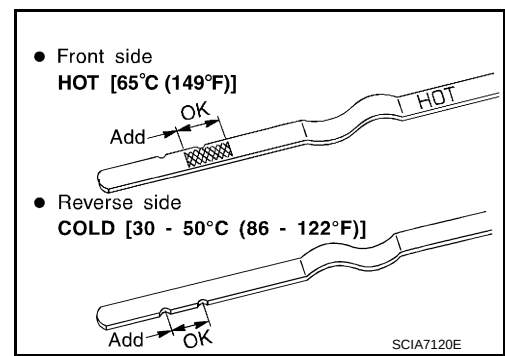
CAUTION:

Do not overfill.

5. Drive vehicle for approximately 5 minutes in urban areas.
6. Make the A/T fluid temperature approximately 65°C (149°F).

NOTE:

A/T fluid level will be greatly affected by temperature as shown in figure. Therefore, be certain to perform operation while checking data with CONSULT-III.



- a. Connect CONSULT-III to data link connector.
- b. Select "DATA MONITOR" mode for "TRANSMISSION" with CONSULT-III.
- c. Read out the value of "ATF TEMP 1".
7. Re-check A/T fluid level at A/T fluid temperatures of approximately 65°C (149°F) using "HOT" range on A/T fluid level gauge.

CAUTION:

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

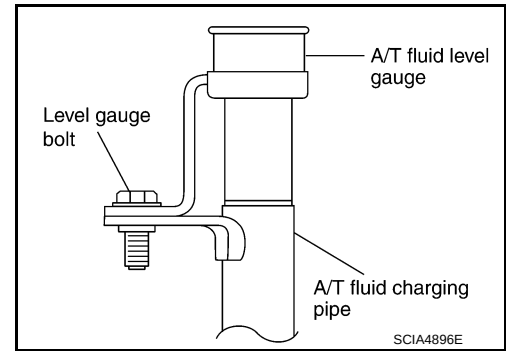
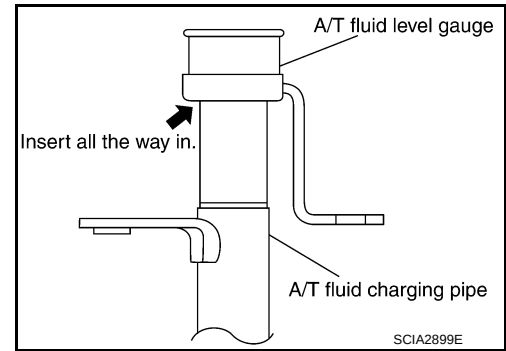
CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

- To check A/T fluid level, insert the A/T fluid level gauge until the cap contacts the end of the A/T fluid charging pipe, with the gauge reversed from the normal attachment conditions as shown.
8. Check A/T fluid condition.
 - If ATF is very dark or smells burned, check operation of A/T. Flush cooling system after repair of A/T.
 - If ATF contains frictional material (clutches, bands, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of A/T. Refer to [CO-12](#) and [AT-14, "A/T Fluid Cooler Cleaning"](#).
 9. Install the removed A/T fluid level gauge in the A/T fluid charging pipe.
 10. Tighten the level gauge bolt.

Level gauge bolt:

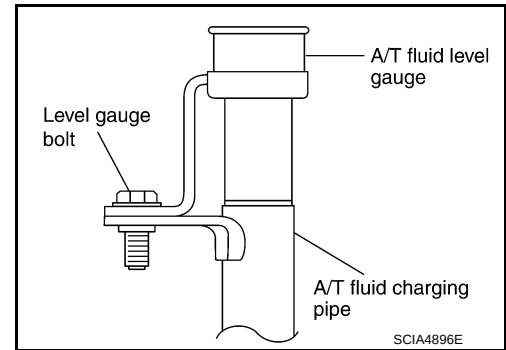
 : 5.1N·m (0.52 kg-m, 45 in-lb)



INFOID:000000001647735

Changing A/T Fluid

1. Warm up ATF.
2. Stop engine.
3. Loosen the level gauge bolt.
4. Drain ATF from drain plug and refill with new ATF. Always refill same volume with drained ATF.
 - To replace the ATF, pour in new ATF at the A/T charging pipe with the engine idling and at the same time drain the old ATF from the radiator cooler hose return side.
 - When the color of the ATF coming out is about the same as the color of the new ATF, the replacement is complete. The amount of new ATF to use should be 30 to 50% increase of the stipulated amount.



ATF: Genuine NISSAN Matic J ATF

Fluid capacity: 10.3 ℓ (10-7/8 US qt, 9-1/8 Imp qt)

CAUTION:

- Use only Genuine NISSAN Matic J ATF. Do not mix with other ATF.
- Using ATF other than Genuine NISSAN Matic J ATF will cause deterioration in driveability and A/T durability, and may damage the A/T, which is not covered by the NISSAN new vehicle limited warranty.
- When filling ATF, take care not to scatter heat generating parts such as exhaust.
- Do not reuse drain plug gasket.

Drain plug:

 : 34 N·m (3.5 kg-m, 25 ft-lb)

5. Run engine at idle speed for 5 minutes.
6. Check A/T fluid level and condition. Refer to [MA-19, "Checking A/T Fluid"](#). If ATF is still dirty, repeat step 2. through 5.
7. Install the removed A/T fluid level gauge in the A/T fluid charging pipe.

CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

8. Tighten the level gauge bolt.

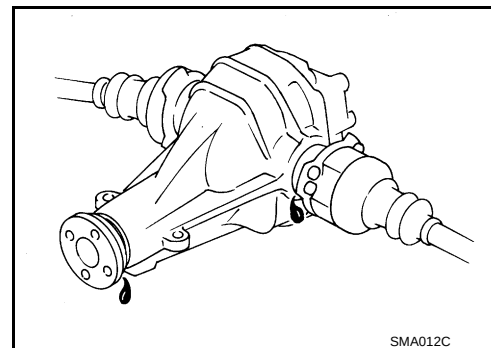
Level gauge bolt:

 : 5.1 N·m (0.52 kg-m, 45 in-lb)

Checking Differential Gear Oil

Check for oil leakage.

INFOID:000000001647736



Changing Differential Gear Oil

INFOID:000000001647737

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

Oil grade and Viscosity:

Refer to [MA-10](#).

Capacity:

R200, R200V

1.4 ℓ (3 US pt, 2 - 1/2 Imp pt)

Drain plug:

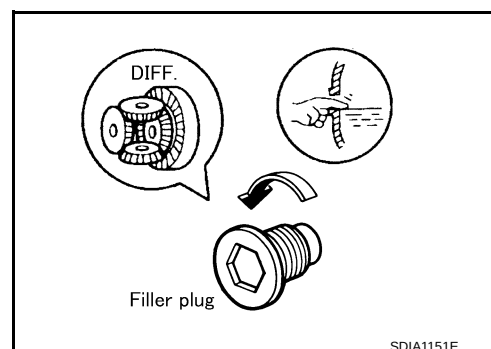
 : 34.5 N·m (3.5 kg-m, 25 ft-lb)

Filler plug:

 : 34.5 N·m (3.5 kg-m, 25 ft-lb)

CAUTION:

Gaskets are not reusable. Never reuse them.



Balancing Wheels (Bonding Weight Type)

INFOID:000000001647738

REMOVAL

1. Remove inner and outer balance weights from the road wheel.

CAUTION:

Be careful not to scratch the road wheel during removal.

2. 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.

CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install it 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.**

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

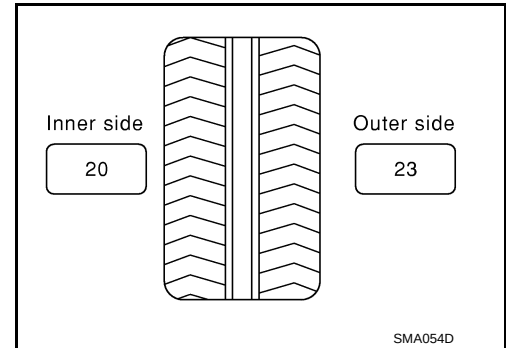
23 g (0.81 oz) $\times 5/3$ = 38.33 g (1.35 oz) = 40 g (1.41 oz) balance weight (closer to calculated balance weight value)

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

Example:

37.4 = 35 g (1.23 oz)

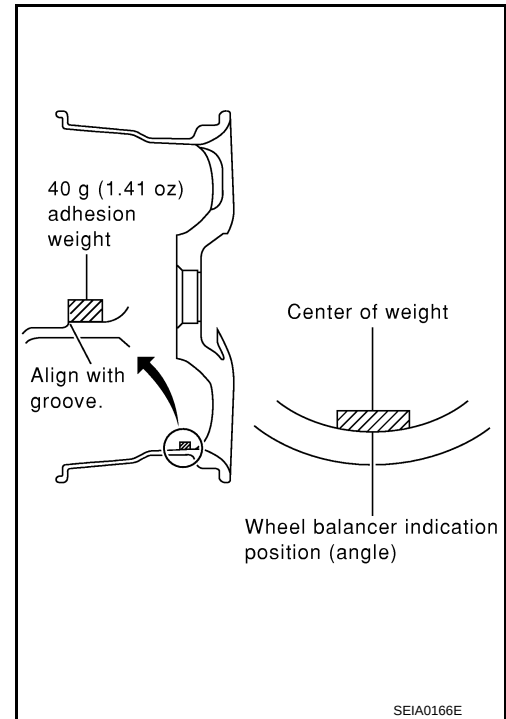
37.5 = 40 g (1.41 oz)



- a. Install balance weight in the position shown in the figure at right.
- b. When installing balance weight to road wheels, set it into the grooved area on the inner wall of the road wheel as shown in the figure so that the balance weight center is aligned with the tire balance machine indication position (angle).

CAUTION:

- **Always use genuine NISSAN adhesion balance weights.**
- **Balance weights are un 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.

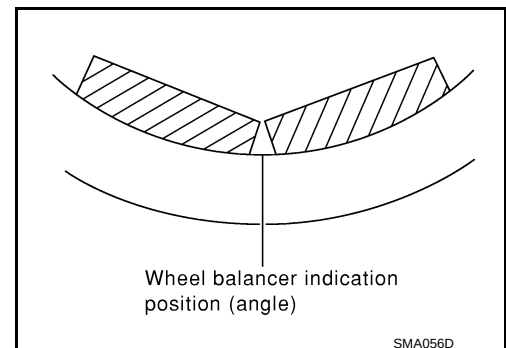
3. Start tire balance machine again.
4. Install drive-in balance weight on inner side of road wheel in the tire balance machine indication position (angle).

CAUTION:

Do not install more than two balance weights.

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

Wheel balance (Maximum allowable unbalance):



CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

Maximum allowable un-balance	Dynamic (At rim flange)	Less than 5 g (0.17 oz) (one side)
	Static (At rim flange)	Less than 10 g (0.35 oz)

Tire Rotation

INFOID:000000001647739

CAUTION:

Do not include the T-type spare tire when rotating the tires.

Use NISSAN genuine wheel nuts for aluminum wheels.

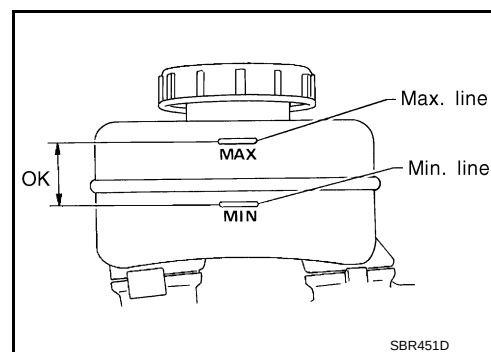
NOTE:

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.

Checking Brake Fluid Level and Leaks

INFOID:000000001647740

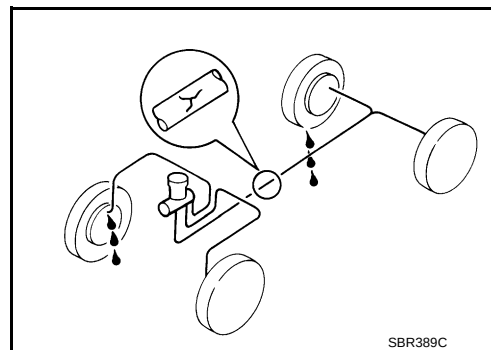
- If fluid level is extremely low, check brake system for leaks.



Checking Brake Line and Cables

INFOID:000000001647741

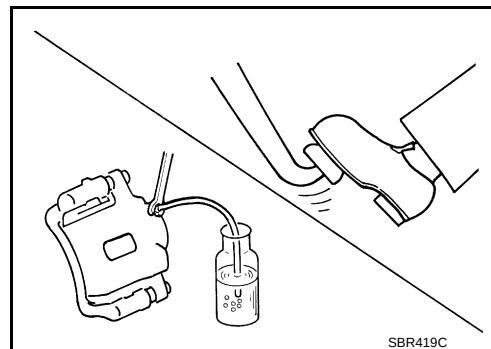
- Check brake fluid lines and parking brake cables for improper attachment, leaks, chafing, abrasions, deterioration, etc.



Changing Brake Fluid

INFOID:000000001647742

1. Drain brake fluid from each bleed valve.
2. 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-10](#).
 - Refill with recommended Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 (US FMVSS No. 116). Refer to [MA-10](#).
 - Never reuse drained brake fluid.
 - Be careful not to splash brake fluid on painted areas.



Checking Disc Brake

INFOID:000000001647743

ROTOR

Check condition, wear, and damage.

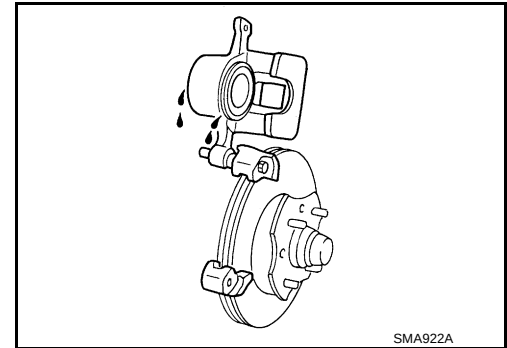
CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

	Front		Rear	
Brake model	Other than Brembo	With Brembo	Other than Brembo	With Brembo
Standard thickness (new)	28.0 mm (1.102 in)	30.0 mm (1.181 in)	16.0 mm (0.630 in)	22.0 mm (0.866 in)
Runout limit (with it attached to the vehicle)	0.035 mm (0.0014 in) or less	0.040 mm (0.0016 in) or less	0.055 mm (0.0022 in) or less	0.07 mm (0.0028 in) or less
Repair limit thickness	26.0 mm (1.024 in)	28.4 mm (1.118 in)	14.0 mm (0.551 in)	20.2 mm (0.795 in)

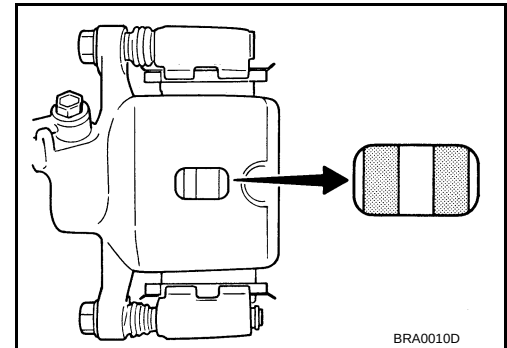
CALIPER

- Check for leakage.



PAD

- Check for wear or damage.



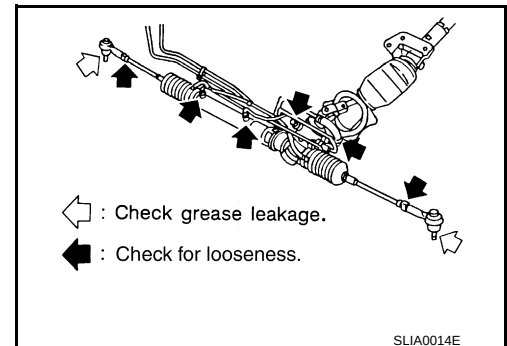
	Front		Rear	
Brake model	Other than Brembo	With Brembo	Other than Brembo	With Brembo
Standard thickness (new)	11.0 mm (0.433 in)	9.3 mm (0.366 in)	8.5 mm (0.335 in)	9.1 mm (0.358 in)
Repair limit thickness	2.0 mm (0.079 in)	2.0 mm (0.079 in)	2.0 mm (0.079 in)	2.0 mm (0.079 in)

Checking Steering Gear and Linkage

INFOID:000000001647744

STEERING GEAR

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



STEERING LINKAGE

CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

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

Checking Power Steering Fluid and Line

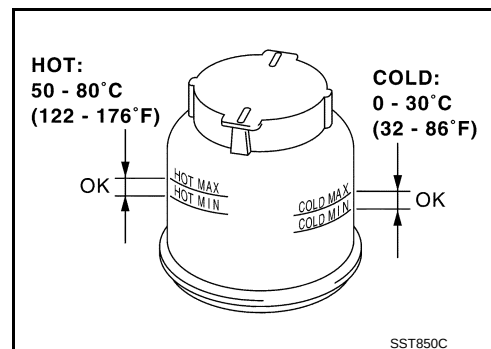
INFOID:000000001647745

Check fluid level in reservoir tank with engine off.

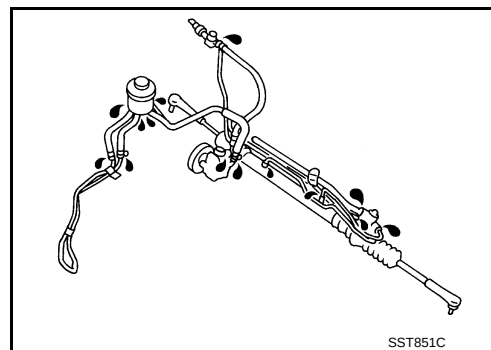
Use "HOT" range at fluid temperatures of 50 to 80°C (122 to 176°F) or "COLD" range at fluid temperatures of 0 to 30°C (32 to 86°F).

CAUTION:

- Do not overfill.
- Recommended fluid is Genuine NISSAN PSF or equivalent.
Refer to [MA-10](#)



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

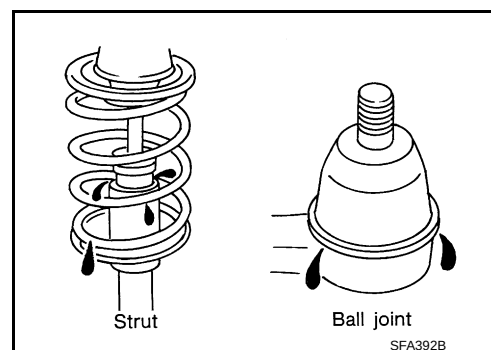
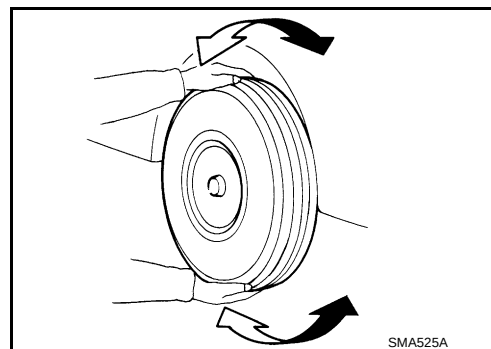


Axle and Suspension Parts

INFOID:000000001647746

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.

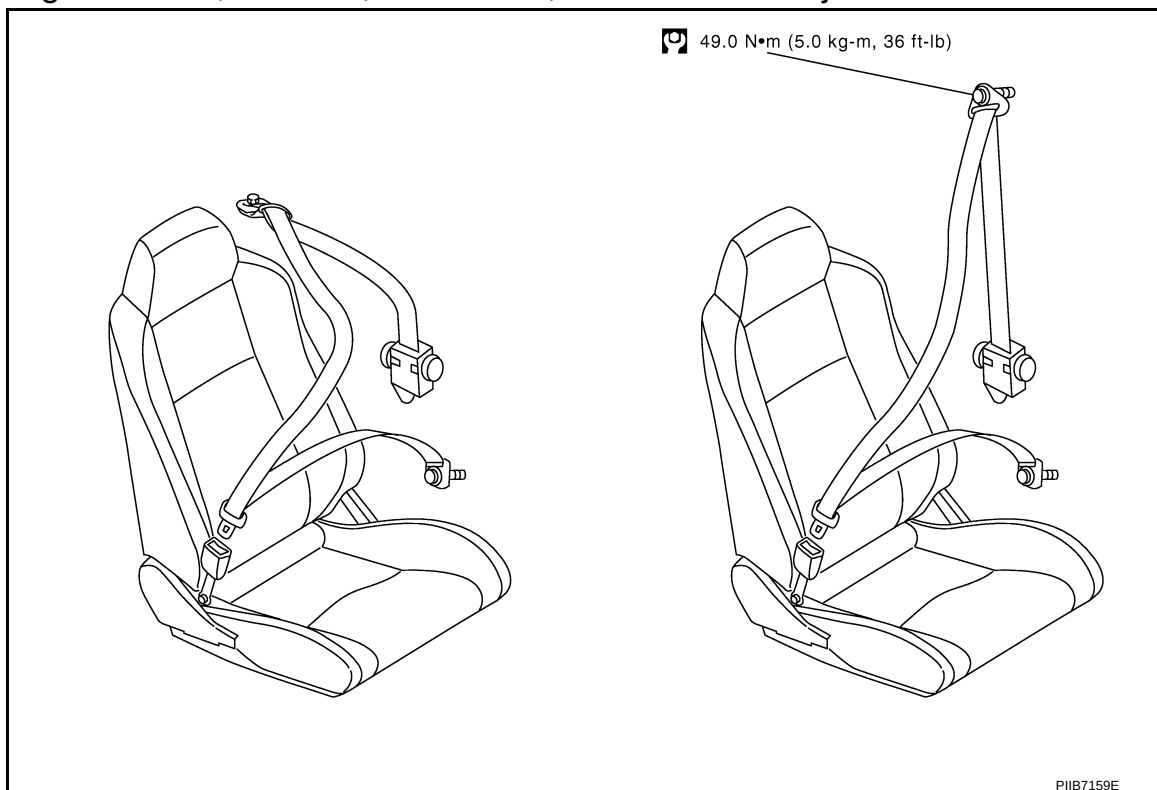


CHASSIS AND BODY MAINTENANCE

< SERVICE INFORMATION >

Checking Seat Belt, Buckles, Retractors, Anchors and Adjusters

INFOID:000000001647749



CAUTION:

- After any collision, inspect all seat belt assemblies, including retractors and other attached hardware (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 Refer to Service Manual in SB section.

- Check anchors for loose mounting
- Check belts for damage
- Check retractor for smooth operation
- Check function of buckles and tongues when buckled and released

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE INFORMATION >

SERVICE DATA AND SPECIFICATIONS (SDS)

Standard and Limit

INFOID:000000001647750

BELT DEFLECTION AND TENSION

Tension of drive belts	Auto adjustment by auto tensioner
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ENGINE COOLANT CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

Engine coolant capacity (With reservoir tank at "MAX" level)	9.0 (9-1/2, 7-7/8)
Reservoir tank engine coolant capacity (at MAX level)	0.8 (7/8, 3/4)

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)		5.5 (5-3/4, 4-7/8)

SPARK PLUG (Iridium-TIPPED TYPE)

Make	DENSO
Standard type	FXE22HR-11
Gap (Nominal)	1.1 mm (0.043 in)

WHEEL BALANCE

Maximum allowable unbalance	Dynamic (At rim flange)	Less than 5 g (0.17 oz) (one side)
	Static (At rim flange)	Less than 10 g (0.35 oz)

Tightening Torque

INFOID:000000001647751

Unit: N·m (kg-m, ft-lb),
Unit: N·m (kg-m, in-lb)*

Radiator drain plug	1.2 (0.12, 11)*
Air relief plug	1.2 (0.12, 11)*
Oil pan drain plug	34.3 (3.5, 25)
Oil filter	17.7 (1.8, 13)
Spark plug	19.6 (2.0, 14)