SECTION MA
MAINTENANCE

CONTENTS

PREPARATION 3

PREPARATION 3
Special Service Tool 3
Commercial Service Tool 3

PERIODIC MAINTENANCE 4

GENERAL MAINTENANCE 4

FOR NORTH AMERICA 4
FOR NORTH AMERICA : Explanation of General Maintenance 4

FOR MEXICO 5
FOR MEXICO : General Maintenance 5

PERIODIC MAINTENANCE 8

FOR NORTH AMERICA 8
FOR NORTH AMERICA : Introduction of Periodic Maintenance 8

FOR MEXICO 10
FOR MEXICO : Periodic Maintenance 10

RECOMMENDED FLUIDS AND LUBRICANTS 12

FOR NORTH AMERICA 12
FOR NORTH AMERICA : Fluids and Lubricants 12
FOR NORTH AMERICA : Engine Oil Recommendation 13
FOR NORTH AMERICA : Anti-Freeze Coolant Mixture Ratio 13

FOR MEXICO 13
FOR MEXICO : Fluids and Lubricants 13
FOR MEXICO : SAE Viscosity Number 14
FOR MEXICO : Engine Coolant Mixture Ratio 15

ENGINE MAINTENANCE 16

DRIVE BELT 16
DRIVE BELT : Exploded View 16
DRIVE BELT : Inspection 16
DRIVE BELT : Adjustment 17

ENGINE COOLANT 17
ENGINE COOLANT : Inspection 17
ENGINE COOLANT : Draining 17
ENGINE COOLANT : Refilling 19
ENGINE COOLANT : Flushing 21

RESERVOIR TANK CAP 21
RESERVOIR TANK CAP : Inspection 22

RADIATOR 22
RADIATOR : Inspection 22

FUEL LINES 22
FUEL LINES : Inspection 22

AIR CLEANER FILTER 22
AIR CLEANER FILTER : Removal and Installation 22

ENGINE OIL 23
ENGINE OIL : Draining 23
ENGINE OIL : Refilling 23

OIL FILTER 24
OIL FILTER : Removal and Installation 24
OIL FILTER : Inspection 24

SPARK PLUG 24
SPARK PLUG : Removal and Installation 24
SPARK PLUG : Inspection 25

EVAP VAPOR LINES 25
EVAP VAPOR LINES : Inspection 25

CHASSIS MAINTENANCE 27

EXHAUST SYSTEM 27
EXHAUST SYSTEM : Inspection 27

TRANSAXLE FLUID 27

TRANSAXLE FLUID : Inspection 27
TRANSAXLE FLUID : Changing 29
TRANSAXLE FLUID : Adjustment 30

TRANSFER OIL 30
TRANSFER OIL : Transfer Oil 30

REAR PROPELLER SHAFT 30
REAR PROPELLER SHAFT : Inspection 31

REAR DIFFERENTIAL GEAR OIL 31
REAR DIFFERENTIAL GEAR OIL : Inspection 31
REAR DIFFERENTIAL GEAR OIL : Draining 32
REAR DIFFERENTIAL GEAR OIL : Refilling 32

WHEELS 32
WHEELS : Adjustment 32

BRAKE FLUID LEVEL AND LEAKS 34
BRAKE FLUID LEVEL AND LEAKS : Inspection ... 34

BRAKE LINES AND CABLES 34
BRAKE LINES AND CABLES : Inspection 35

BRAKE FLUID 35
BRAKE FLUID : Changing 35

DISC BRAKE 35
DISC BRAKE : Inspection 35
DISC BRAKE : Front Disc Brake 36
DISC BRAKE : Rear Disc Brake 37

STEERING GEAR AND LINKAGE 37
STEERING GEAR AND LINKAGE : Inspection 38

AXLE AND SUSPENSION PARTS 38
AXLE AND SUSPENSION PARTS : Inspection 38

DRIVE SHAFT 38
DRIVE SHAFT : Inspection 38

BODY MAINTENANCE 39

LOCKS, HINGES AND HOOD LATCH 39
LOCKS, HINGES AND HOOD LATCH : Lubricating 39

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS 39
SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS : Inspection 39

SERVICE DATA AND SPECIFICATIONS (SDS) 40

SERVICE DATA AND SPECIFICATIONS (SDS) 40

DRIVE BELT 40
DRIVE BELT : Drive Belt 40

ENGINE COOLANT 40
ENGINE COOLANT :
Periodical Maintenance Specification 40

ENGINE OIL 40
ENGINE OIL :
Periodical Maintenance Specification 40

SPARK PLUG 40
SPARK PLUG : Spark Plug 40

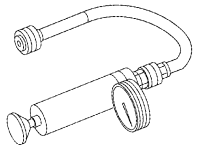
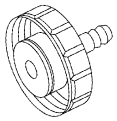
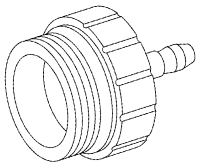
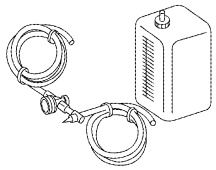
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ROAD WHEEL : Road Wheel 40

PREPARATION

PREPARATION

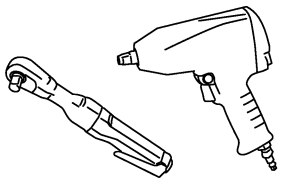
Special Service Tool

INFOID:0000000013501607

NISSAN Tool number (DAIMLER tool No.) Tool name	Description
KV115H0870 (DAIMLER tool No. 124 589 24 21 00) Pump press  JSBIA3887ZZ	Cooling system check
KV115H0880 (DAIMLER tool No. 210 589 00 91 00) Cap  JSBIA3888ZZ	Test cap for cooling system check
KV115H0900 (DAIMLER tool No. 210 589 03 63 00) Adapter  JSBIA3890ZZ	Test cap KV115H0880 (DAIMLER tool No. 210 589 00 91 00) adapter
KV115H0890 (DAIMLER tool No. 285 589 00 21 00) Device cooler filling  JSBIA3889ZZ	Replace engine coolant

Commercial Service Tool

INFOID:0000000013501608

Tool name	Description
Power tool  PBIC0190E	Loosening nuts and bolts

PERIODIC MAINTENANCE

GENERAL MAINTENANCE
FOR NORTH AMERICA

FOR NORTH AMERICA : Explanation of General Maintenance

INFOID:0000000013660367

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** retailers 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-76
Wheel nuts	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	—
Tire rotation	Tires should be rotated every 5,000 miles (8,000 km).	MA-32
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-73
Wheel alignment and balance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed. For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the INFINITI Warranty Information Booklet.	FSU-8 RSU-7 MA-32
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-39
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)**	—

Item		Reference page
Seats	Check seat position controls such as seat adjusters, seatback recliner, etc. to make sure they operate smoothly and that all latches lock securely in every position. Check that the head restrains move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks.	—
Seat belts	Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-39
Accelerator pedal	Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—
Brakes	Check that the brake does not pull the vehicle to one side when applied.	—
Brake pedal and booster	Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-10 BR-13
Parking brake	Check that the lever or 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.	—
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 (Park) position without applying any brakes.	—

UNDER THE HOOD AND VEHICLE

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

Item		Reference page
Windshield washer fluid	Check that there is adequate fluid in the tank.	—
Engine coolant level	Check the coolant level when the engine is cold.	MA-17
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.	MA-22
Brake fluid level	Make sure that the brake fluid level is between the “MAX” and “MIN” lines on the reservoir.	MA-34
Battery	Check the fluid level in each cell. It should be between the “MAX” and “MIN” lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	PG-102 PG-103
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	MA-16
Engine oil level	Check the level on the oil level gauge after parking the vehicle on a level spot and turning off the engine.	LU-7
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-27
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.	—

FOR MEXICO

FOR MEXICO : General Maintenance

INFOID:0000000013501609

General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform the checks and inspections themselves or they can have their **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
Doors and hood	Check that all doors and the hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.	MA-39
Lamps	Clean the headlamps on a regular basis. Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly and installed securely. Also check the aim of the headlamps.	—
Tires	Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.	WT-76
Tire rotation	In the case that Two-Wheel Drive (2WD) and front and rear tires are same size; tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that Four-Wheel Drive and All Wheel Drive (4WD/AWD) and front and rear tires are same size; tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed. In the case that front tires are different size from rear tires; tires cannot be rotated. The timing for tire rotation may vary according to your driving habits and the road surface conditions.	MA-32
Tire Pressure Monitoring System (TPMS) transmitter components (if so equipped)	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	WT-73
Wheel alignment and balance	If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	FSU-8 RSU-7 MA-32
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	—
Wiper blades	Check for cracks or wear if not functioning correctly. Replace as necessary.	—

INSIDE THE VEHICLE

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

Item		Reference page
Accelerator pedal	Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—
Brake pedal	Check the pedal for smooth operation and make sure that it is the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-10
Parking brake	Check the parking brake operation regularly. Check that the lever (if so equipped) or the pedal (if so equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	—
Seat belts	Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-39
Steering wheel	Check for changes in the steering condition, such as excessive play, hard steering or strange noises. Check that it has the specified play. **Free play: Less than 35 mm (1.38 in)**	—
Warning lamps and chimes	Make sure that all warning lamps and chimes are operating properly.	—

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

UNDER THE HOOD AND VEHICLE

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

Item		Reference page
Battery (except for maintenance free batteries)	Check the fluid level in each cell. It should be between the UPPER and LOWER lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	PG-102 PG-103
Brake (and clutch) fluid level(s)	For Manual Transmission (MT) model; make sure that the brake and clutch fluid levels are between the MAX and MIN lines on the reservoir(s). Except for Manual Transmission (MT) model; make sure that the brake fluid level is between the MAX and MIN lines on the reservoir.	MA-34
Engine coolant level	Check the coolant level when the engine is cold. Make sure that the coolant level is between the MAX and MIN lines on the reservoir.	MA-17
Engine drive belt(s)	Make sure that drive belt(s) is not frayed, worn, cracked or oily.	MA-16
Engine oil level	Check the level after parking the vehicle (on a level ground) and turning off the engine.	LU-7
Fluid leaks	Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for cause and have it corrected immediately.	—
Windshield washer fluid	Check that there is adequate fluid in the reservoir.	—

PERIODIC MAINTENANCE
FOR NORTH AMERICA

FOR NORTH AMERICA : Introduction of Periodic Maintenance

INFOID:0000000013660159

The following tables show the normal maintenance schedule. Depending upon weather and atmospheric conditions, varying road surfaces, individual driving habits and vehicle usage, additional or more frequent maintenance may be required.
Periodic maintenance beyond the last period shown on the tables requires similar maintenance.

Emission Control System Maintenance (2.0L turbo Engine models)

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	5 (8) 6	10 (16) 12	15 (24) 18	20 (32) 24	25 (40) 30	30 (48) 36	35 (56) 42	40 (64) 48	45 (72) 54
Engine compartment	NOTE (1)				I				I	
V-belt	NOTE (2)				I*				I*	
		Replace every 155,000 miles (248,000 km) or 180 months								
Air cleaner filter		Replace every 45,000 miles (72,000 km) or 48 months								
Fuel lines					I*				I*	
Fuel filter	NOTE (3)									
Engine coolant*		Replace every 155,000 miles (248,000 km) or 180 months								
Engine oil			R		R		R		R	
Engine oil filter			R		R		R		R	
Spark plugs		Replace every 45,000 miles (72,000 km) or 48 months								

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	50 (80) 60	55 (88) 66	60 (96) 72	65 (104) 78	70 (112) 84	75 (120) 90	80 (128) 96	85 (136) 102	90 (144) 108
Engine compartment	NOTE (1)			I				I		
V-belt	NOTE (2)			I*				I*		
		Replace every 155,000 miles (248,000 km) or 180 months								
Air cleaner filter		Replace every 45,000 miles (72,000 km) or 48 months								
Fuel lines				I*				I*		
Fuel filter	NOTE (3)									
Engine coolant*		Replace every 155,000 miles (248,000 km) or 180 months								
Engine oil		R		R		R		R		R
Engine oil filter		R		R		R		R		R
Spark plugs		Replace every 45,000 miles (72,000 km) or 48 months								

MAINTENANCE OPERATION		MAINTENANCE INTERVAL						Reference Page
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	95 (152) 114	100 (160) 120	105 (168) 126	110 (176) 132	115 (184) 138	120 (192) 144	
Engine compartment	NOTE (1)		I				I	—
V-belt	NOTE (2)		I*				I*	MA-16
		Replace every 155,000 miles (248,000 km) or 180 months						
Air cleaner filter		Replace every 45,000 miles (72,000 km) or 48 months						MA-22

MAINTENANCE OPERATION		MAINTENANCE INTERVAL						Reference Page
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	95 (152) 114	100 (160) 120	105 (168) 126	110 (176) 132	115 (184) 138	120 (192) 144	
Fuel lines			I*				I*	MA-22
Fuel filter	NOTE (3)							—
Engine coolant*		Replace every 155,000 miles (248,000 km) or 180 months						MA-17
Engine oil			R		R		R	MA-23
Engine oil filter			R		R		R	MA-24
Spark plugs		Replace every 45,000 miles (72,000 km) or 48 months						MA-24

NOTE:

- (1) All visible parts checked for leaks and damage.
- (2) In visible area only.
- (3) Maintenance-free item. For service procedures, refer to the FL section.

* 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 Maintenance (2.0L turbo Engine models)

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	5 (8) 6	10 (16) 12	15 (24) 18	20 (32) 24	25 (40) 30	30 (48) 36	35 (56) 42	40 (64) 48	45 (72) 54
Brake lines & cables			I		I		I		I	
Brake pads & rotors			I		I		I		I	
Brake fluid					R				R	
Automatic transmission fluid					I				I	
Automatic transmission fluid and filter		Replace every 60,000 miles (96,000 km) or 60 months								
Differential gear oil			I		I		I		I	
Steering gear & linkage, axle & suspension parts					I				I	
Tire rotation	NOTE (1)									
Propeller shaft & drive shaft boots (AWD models)			I		I		I		I	
Exhaust system					I				I	
In-cabin microfilter					R				R	
I-key battery				R			R			R

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	50 (80) 60	55 (88) 66	60 (96) 72	65 (104) 78	70 (112) 84	75 (120) 90	80 (128) 96	85 (136) 102	90 (144) 108
Brake lines & cables		I		I		I		I		I
Brake pads & rotors		I		I		I		I		I
Brake fluid				R				R		
Automatic transmission fluid				I				I		
Automatic transmission fluid and filter		Replace every 60,000 miles (96,000 km) or 60 months								
Differential gear oil		I		I		I		I		I

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	50 (80) 60	55 (88) 66	60 (96) 72	65 (104) 78	70 (112) 84	75 (120) 90	80 (128) 96	85 (136) 102	90 (144) 108
Steering gear & linkage, axle & suspension parts				I				I		
Tire rotation	NOTE (1)									
Propeller shaft & drive shaft boots (AWD models)		I		I		I		I		I
Exhaust system				I				I		
In-cabin microfilter				R				R		
I-key battery				R			R			R

MAINTENANCE OPERATION		MAINTENANCE INTERVAL						Reference Page
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	95 (152) 114	100 (160) 120	105 (168) 126	110 (176) 132	115 (184) 138	120 (192) 144	
Brake lines & cables			I		I		I	MA-35
Brake pads & rotors			I		I		I	MA-35 BR-14 BR-15
Brake fluid			R				R	MA-35
Automatic transmission fluid			I				I	MA-27
Automatic transmission fluid and filter		Replace every 60,000 miles (96,000 km) or 60 months						MA-29
Differential gear oil			I		I		I	MA-31
Steering gear & linkage, axle & suspension parts			I				I	MA-38 MA-38
Tire rotation	NOTE (1)							MA-32
Propeller shaft & drive shaft boots (AWD models)			I		I		I	MA-31 MA-38
Exhaust system			I				I	MA-27
In-cabin microfilter			R				R	VTL-15
I-key battery				R			R	DLK-287

NOTE:

• (1) Refer to “Tire rotation” under the “GENERAL MAINTENANCE” heading earlier in this section.

FOR MEXICO

FOR MEXICO : Periodic Maintenance

INFOID:0000000013660166

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

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

ENGINE AND EMISSION CONTROL MAINTENANCE (1.6L/2.0L TURBO ENGINE MODELS)

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL					Reference page
Perform at kilometers (miles) or months interval, whichever comes first.	km x 1,000 (Miles x 1,000) Months	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	
Engine compartment and under vehicle							
Engine compartment	See NOTE (1)		I		I		—

MAINTENANCE OPERATION		MAINTENANCE INTERVAL					Reference page
Perform at kilometers (miles) or months interval, whichever comes first.	km x 1,000 (Miles x 1,000) Months	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	
V-belt	See NOTE (2)		I		I		MA-16
		Replace every 240,000 km (144,000 miles)/180 months					
Engine oil		R	R	R	R	R	MA-23
Engine oil filter		R	R	R	R	R	MA-24
Engine coolant		Replace every 240,000 km (144,000 miles)/180 months					MA-17
Fuel lines			I		I		MA-22
Air cleaner filter		Replace every 60,000 km (36,000 miles)/48 months					MA-22
Spark plugs		Replace every 60,000 km (36,000 miles)/48 months					MA-24
Fuel filter (In-tank type)	See NOTE (3)						—

NOTE:

- (1) All visible parts checked for leaks and damage.
- (2) In visible area only.
- (3) Maintenance-free item. For service procedures, refer to FL section.

CHASSIS AND BODY MAINTENANCE (1.6L/2.0L TURBO ENGINE MODELS)

Abbreviations: I = Inspect and correct or replace as necessary, R = Replace, < > = At the specified month only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL					Reference page
Perform at kilometers (miles) or months interval, whichever comes first.	km x 1,000 (Miles x 1,000) Months	20 (12) 12	40 (24) 24	60 (36) 36	80 (48) 48	100 (60) 60	
Underhood and under vehicle							
Brake system and fluid (For level & leaks)		I	I	I	I	I	MA-34
Brake fluid			<R>		<R>		MA-35
Automatic transmission fluid (For leaks)			I		I		MA-27
Automatic transmission fluid and filter						R	MA-29
Differential gear oil (For level & leaks)			I		I		MA-31
Drive shafts			I		I		MA-38
Steering gear & linkage, axle & suspension parts			I		I		MA-38 MA-38
Exhaust system		I	I	I	I	I	MA-27
Brake pads, rotors & other brake components		I	I	I	I	I	MA-35 BR-14 BR-15
Foot brake & parking brake (For free play, stroke & operation)		I	I	I	I	I	BR-10
Air conditioner filter			R		R		VTL-15

RECOMMENDED FLUIDS AND LUBRICANTS FOR NORTH AMERICA

FOR NORTH AMERICA : Fluids and Lubricants

INFOID:0000000013501611

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedures described elsewhere in this manual.

Fluid types			Capacity (Approximate)			Recommended Fluids/Lubricants
			US measure	Imp measure	Liter	
Engine oil Drain and refill	With oil filter change		5-7/8 qt	4-7/8 qt	5.6	• Genuine INFINITI engine oil, Viscosity SAE 0W-30 • For additional information, see “Engine Oil Recommendation”.
	Without oil filter change		—	—	—	
Dry engine (Overhaul)			—	—	—	
Engine coolant	With reservoir tank		8 qt	6-5/8 qt	7.6	• Genuine INFINITI Engine Coolant or equivalent in its quality BASF Glysantin® G40® • Use BASF Glysantin® G40® or equivalent in its quality, in order to avoid possible aluminium corrosion within the engine cooling system caused by the use of nongenuine engine coolant. Note that any repairs for the incidents within the engine cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.
	Reservoir tank		—	—	—	
Automatic transaxle fluid		2WD models	5-1/8 qt	4-1/4 qt	4.85	• Shell DCT-M1
		AWD models	5-1/2 qt	4-1/2 qt	5.25	
Brake fluid			—	—	—	• Genuine INFINITI brake fluid or equivalent DOT4+ • Never mix different types of fluids
Differential gear oil			6/8 qt	5/8 qt	0.74	• Castrol BOT 355 75W-85
Multi-purpose grease			—	—	—	• NLGI No. 2 (Lithium soap base)

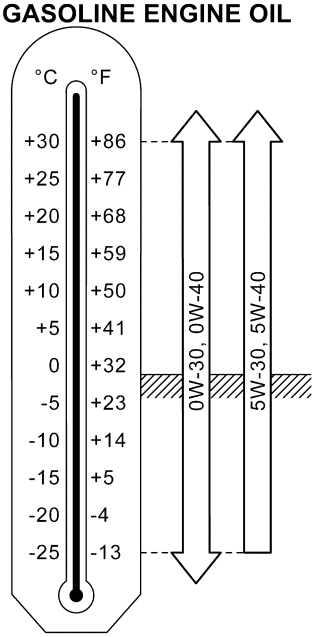
FOR NORTH AMERICA : Engine Oil Recommendation

INFOID:0000000013662356

It is essential to choose the correct grade, quality, and viscosity engine oil to ensure atisfactory engine life and performance Select only engine oils that meet the MB229.5 and SAE viscosity standard. These oils have the MB229.5 on the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Outside Temperature Range Anticipated Before Next Oil Change

GASOLINE ENGINE OIL



JSPIA0029GB

FOR NORTH AMERICA : Anti-Freeze Coolant Mixture Ratio

INFOID:0000000013662357

The engine cooling system is filled at the factory with a pre-diluted mixture of 50% BASF Glysantin® G40® and 50% water to provide year-round anti-freeze and coolant protection. The anti-freeze solution contains rust and corrosion inhibitors. Additional engine cooling system additives are not necessary.

WARNING:

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

CAUTION:

- **When adding or replacing coolant, be sure to use only BASF Glysantin® G40® or equivalent. BASF Glysantin® G40® is pre-diluted to provide antifreeze protection to -34°F (-37°C). If additional freeze protection is needed due to weather where you operate your vehicle, add BASF Glysantin® G40® concentrate following the directions on the container. If an equivalent coolant other than BASF Glysantin® G40® is used, follow the coolant manufacture's instructions to maintain minimum anti-freeze protection to -34°F (-37°C). The use of other types of coolant solutions other than BASF Glysantin® G40® or equivalent may damage the engine cooling system.**
- **Mixing any other type of coolant other than BASF Glysantin® G40®, or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant.**

FOR MEXICO

FOR MEXICO : Fluids and Lubricants

INFOID:0000000013661032

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedures described elsewhere in this manual.

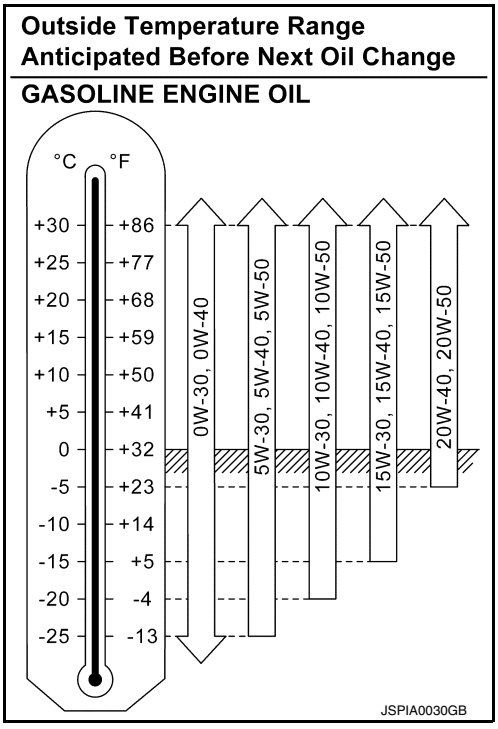
Fluid types			Capacity (Approximate)		Recommended Fluids/Lubricants
			Imp measure	Liter	
Engine oil Drain and refill	With oil filter change	1.6L turbo engine	5-1/8 qt	5.8	• Genuine INFINITI engine oil, Viscosity SAE 0W-30 • For additional information, see “SAE Viscosity Number”.
		2.0L turbo engine	4-7/8 qt	5.6	
	Without oil filter change	1.6L turbo engine	—	—	
		2.0L turbo engine	—	—	
Dry engine (Overhaul)		1.6L turbo engine	—	—	
		2.0L turbo engine	—	—	
Engine coolant	With reservoir tank	1.6L turbo engine	6-5/8 qt	7.6	• Genuine INFINITI Engine Coolant or equivalent in its quality BASF Glysantin® G40® • Use Genuine INFINITI Engine Coolant or equivalent in its quality, in order to avoid possible aluminium corrosion within the engine cooling system caused by the use of non-genuine engine coolant. Note that any repairs for the incidents within the engine cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.
		2.0L turbo engine	6-5/8 qt	7.6	
	Reservoir tank	1.6L turbo engine	—	—	
		2.0L turbo engine	—	—	
Automatic transaxle fluid			4-1/2 qt	4.85	• Shell DCT-M1
Brake fluid			—	—	• Genuine INFINITI Brake Fluid, or equivalent DOT 4+ • Never mix different types of fluids.
Multi-purpose grease			—	—	• NLGI No. 2 (Lithium soap base)

FOR MEXICO : SAE Viscosity Number

INFOID:0000000013686040

GASOLINE ENGINE

- 0W-30 is preferable.
  If 0W-30 is not available, select the viscosity, from the chart, that is suitable for the outside temperature range.



FOR MEXICO : Engine Coolant Mixture Ratio

INFOID:0000000013661034

The engine cooling system is filled at the factory with a high-quality, year-round and extended life engine coolant. The high quality engine coolant contains the specific solutions effective for the anti-corrosion and the anti-freeze function. Therefore, additional cooling system additives are not necessary.

Minimum Outside Temperature		Composition	
°C	°F	Engine coolant (concentrated)	Demineralized or distilled water
-35	-30	50%	50%

CAUTION:

- **When adding or replacing coolant, be sure to use only a Genuin INFINITI Engine Coolant or equivalent in its quality BASF Glysantin® G40® with the proper mixture ratio (50%). See the examples shown in the figure.**

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

- When checking the engine coolant mixture ratio by the coolant hydrometer, use the chart below to correct your hydrometer reading (specific gravity) according to coolant temperature.

Mixed coolant specific gravity

Unit: specific gravity

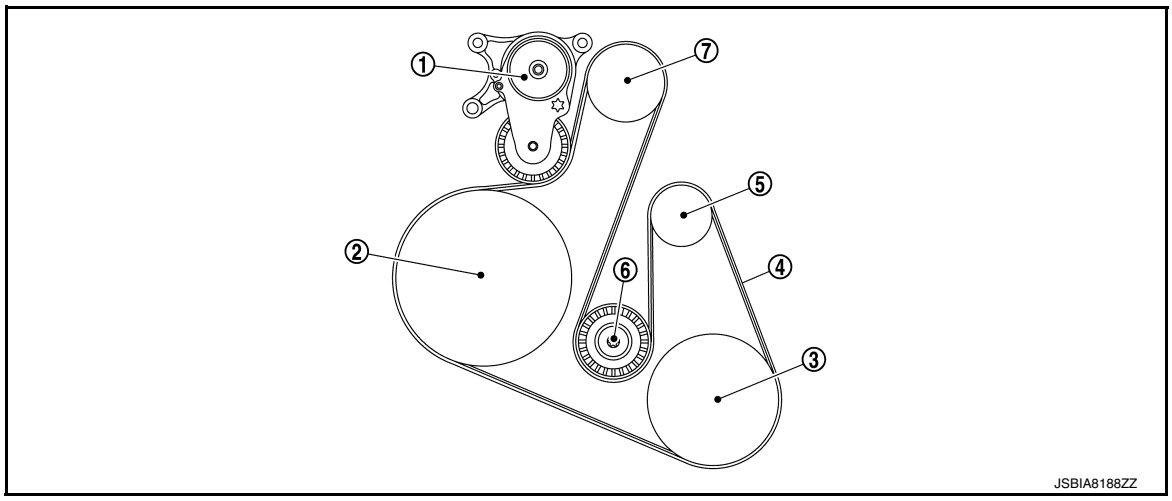
Engine coolant mixture ratio	Coolant temperature °C (°F)			
	15 (59)	25 (77)	35 (95)	45 (113)
50%	1.076 - 1.080	1.070 - 1.076	1.065 - 1.071	1.059 - 1.065

WARNING:

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

ENGINE MAINTENANCE
DRIVE BELT
DRIVE BELT : Exploded View

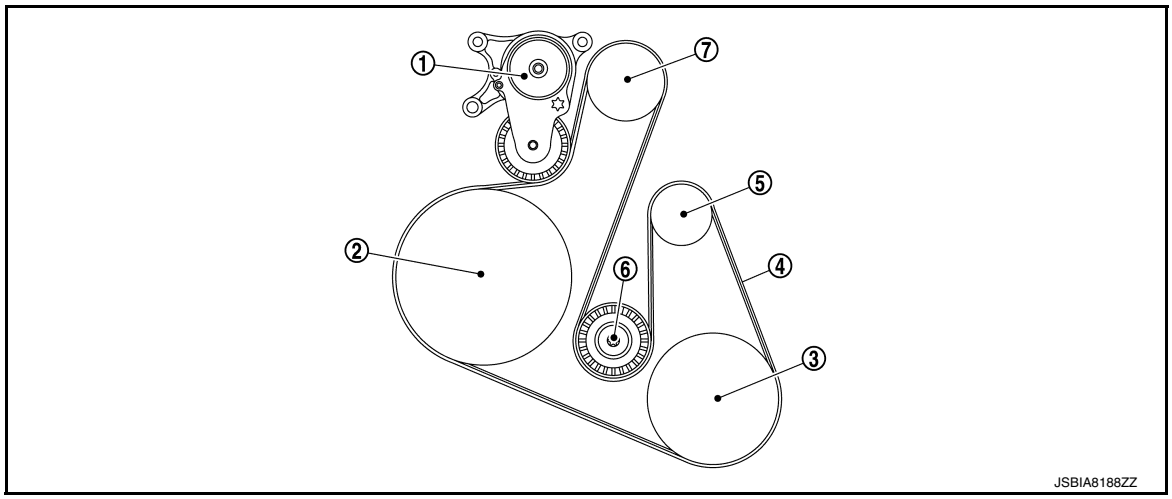
INFOID:0000000013623501



① Drive belt auto-tensioner ② Crankshaft pulley ③ A/C compressor
④ Drive belt ⑤ Alternator ⑥ Idler pulley
⑦ Water pump

DRIVE BELT : Inspection

INFOID:0000000013623502



① Drive belt auto-tensioner ② Crankshaft pulley ③ A/C compressor
④ Drive belt ⑤ Alternator ⑥ Idler pulley
⑦ Water pump

CAUTION:
Never use the indicator of drive belt auto-tensioner.
NOTE:
- Visually check entire drive belt for wear, damage or cracks.
- Replace drive belt if belt is damaged.

DRIVE BELT : Adjustment

INFOID:0000000013623503

Refer to : EM-102, "Drive Belt".

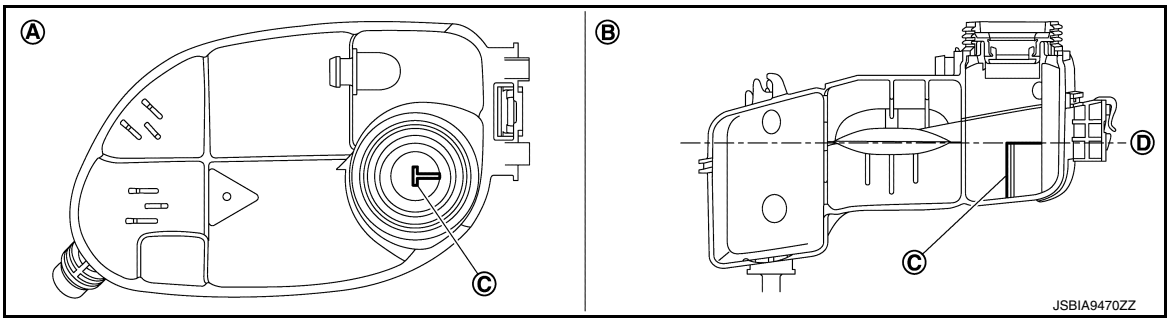
ENGINE COOLANT

ENGINE COOLANT : Inspection

INFOID:0000000013559888

LEVEL

- Check if the reservoir tank engine coolant level is “MAX” Ⓓ when the engine is cool.



Ⓐ : Reservoir tank top view Ⓑ : Reservoir tank side sectional view Ⓒ : T-lib

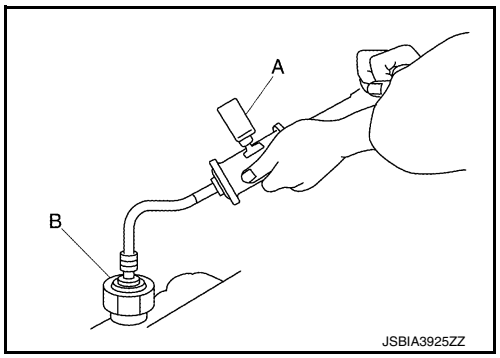
- Adjust the engine coolant level if necessary.
- Check that the reservoir tank cap is tightened.

CAUTION:

Refill Genuine NISSAN Long Life Antifreeze/Coolant (BASF Glysantin® G40®) or equivalent in its quality mixed with water (distilled or demineralized). Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants" (FOR NORTH AMERICA) or MA-13, "FOR MEXICO : Fluids and Lubricants" (FOR MEXICO).

LEAKAGE

- To check for leakage, apply pressure to the cooling system with the pump press [SST: KV115H0870 (124 589 24 21 00)] (A) and cap [SST: KV115H0880 (201 589 00 91 00)] (B).



Testing pressure : Refer to CO-23, "Radiator".

WARNING:

Never remove reservoir tank cap when engine is hot. Serious burns could occur from high-pressure engine coolant escaping from engine cooling system.

CAUTION:

Higher test pressure than specified may cause radiator damage.

NOTE:

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

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

ENGINE COOLANT : Draining

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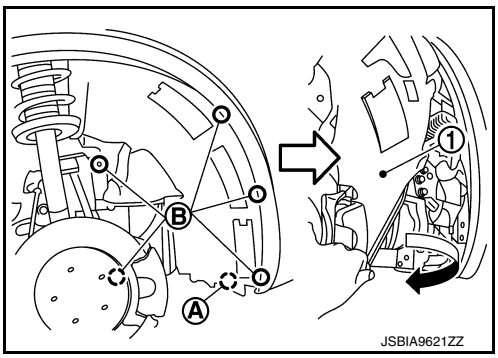
WARNING:

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

1. Remove front wheel (RH). Refer to WT-70, "Exploded View".
2. Remove engine under cover. Refer to EXT-44, "ENGINE UNDER COVER : Removal and Installation".
3. Remove screws and clips of apron bracket. Refer to EXT-17, "Exploded View".

4. Peel (⬅) front side of fender protector (RH) ①.

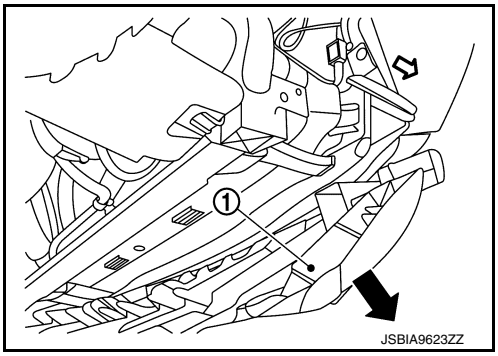
Ⓐ : Screw
Ⓑ : Clip



5. Pull right side of apron bracket backward.
6. Remove radiator core support lower member RH. Refer to DLK-236, "Exploded View".

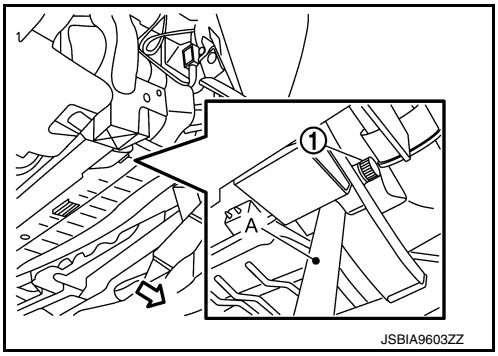
7. To expand the clearance between apron bracket ① and radiator core support lower.

⇦ : Vehicle front
⬅ : Move direction



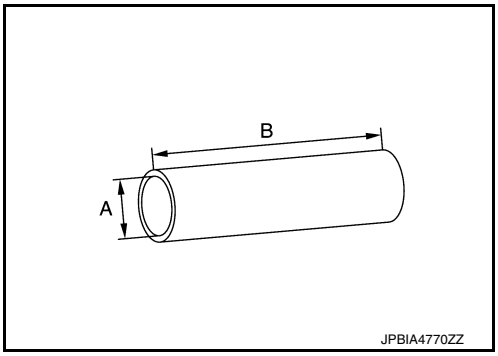
8. Connect drain hose (A).

① : Drain cock
⇦ : Vehicle front

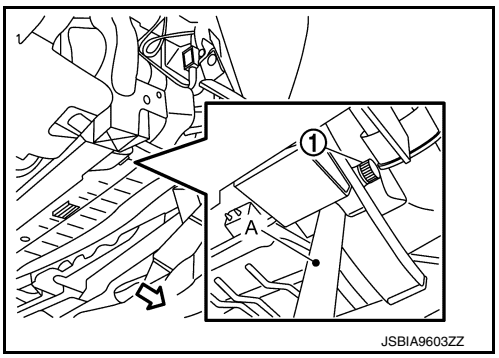


NOTE:
Use a general-purpose hose with the dimensions shown in the figure.

A : ϕ 10 mm (0.39 in)
B : More than 500 mm (19.69 in)



9. Open radiator drain cock ① at the bottom of radiator, and then remove reservoir tank cap.



A : Drain hose

⇦ : Vehicle front

10. Check drained engine coolant for contaminants such as rust, corrosion or discoloration.
If contaminated, flush the engine cooling system. Refer to MA-21, "ENGINE COOLANT : Flushing".
11. Install in the reverse order after this step.

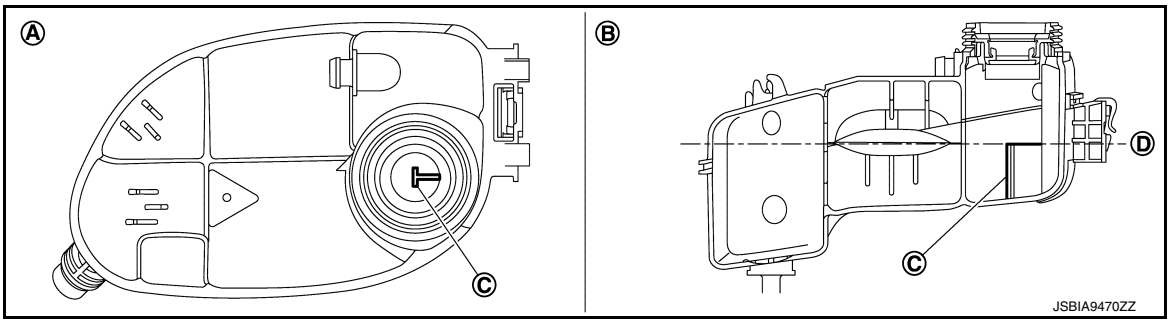
ENGINE COOLANT : Refilling

INFOID:0000000013559890

CAUTION:
When refilling use Genuine NISSAN Long Life Antifreeze/Coolant (BASF Glysantin® G40®) or equivalent in its quality mixed with water (distilled or demineralized). Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants" (FOR NORTH AMERICA) or MA-13, "FOR MEXICO : Fluids and Lubricants" (FOR MEXICO).

Without device cooler filling [SST:KV115H0890 (285 589 00 21 00)]

1. Check that each hose clamp has been firmly tightened.
2. Refill reservoir tank to “MAX” Ⓓ level line with engine coolant.



Ⓐ : Reservoir tank top view Ⓑ : Reservoir tank side sectional view Ⓒ : T-lib

CAUTION:
Never adhere the engine coolant to electronic equipments (alternator etc.).
- **Pour coolant slowly of less than 3 ℓ (3-1/8 US qt, 2-5/8 Imp qt) a minute to allow air in system to escape.**
- **When engine coolant overflows disconnected heater hose, connect heater hose, and continue filling the engine coolant.**

Engine coolant capacity (With reservoir tank at “MAX” level)	**: Refer to CO-23, "Periodical Maintenance Specification".**

3. Install reservoir tank cap.
4. 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.

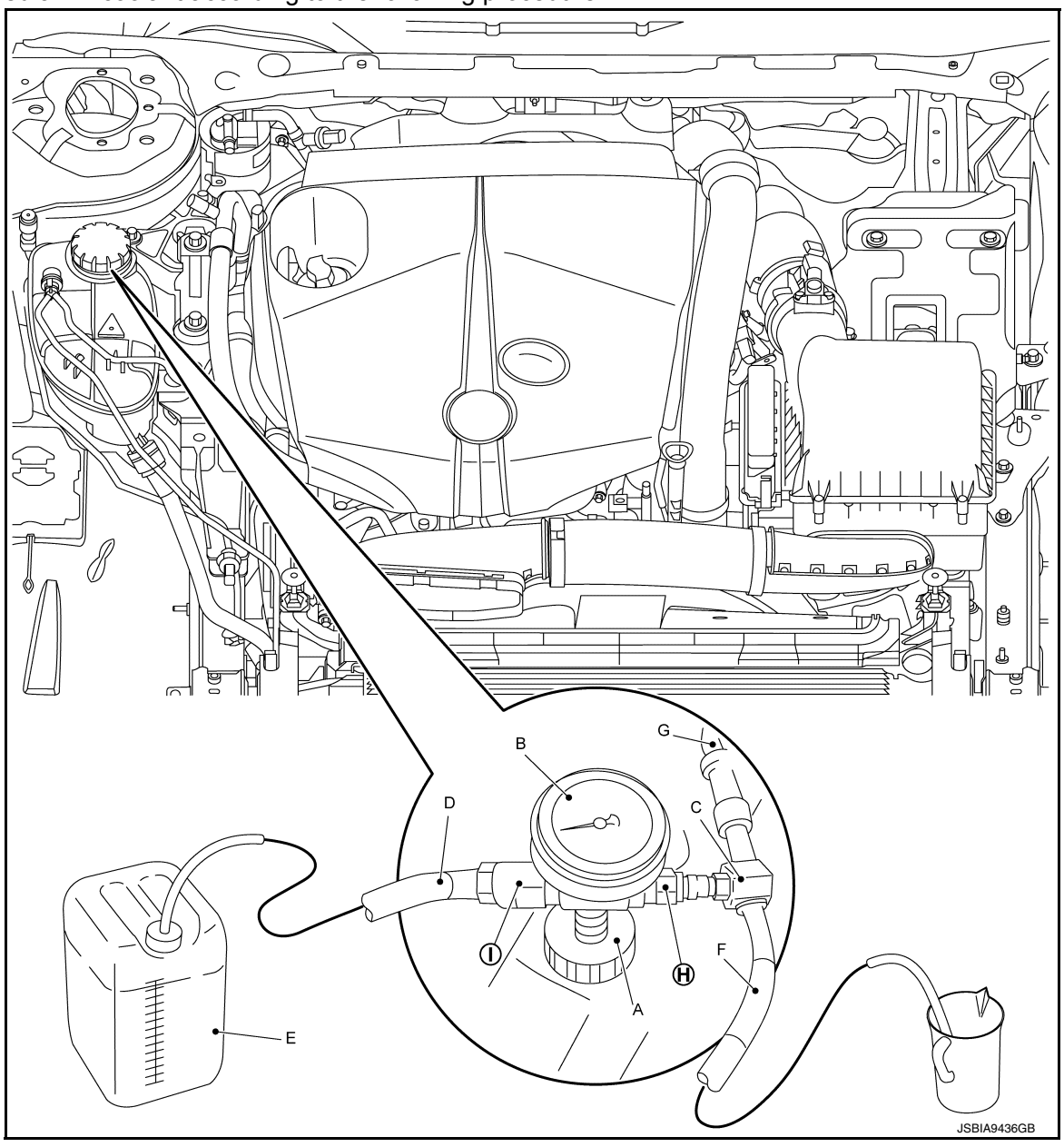
   CAUTION:
   Watch water temperature gauge so as not to overheat engine.
5. Stop the engine and cool down to less than approximately 50°C (122°F).
   - Cool down using fan to reduce the time.
   - If necessary, refill radiator up to filler neck with engine coolant.

   CAUTION:
   Never adhere the engine coolant to electronic equipments (alternator etc.).
6. Repeat steps 2 through 5 two or more times with reservoir tank cap installed until engine coolant level no longer drops.

7. Refill reservoir tank to “MAX” level line with engine coolant.
8. Check cooling system for leakage with engine running.
9. After refilling engine coolant, check to see whether or not the engine coolant flowing noise is heard.
   - Cool down to less than approximately 50°C (122°F).
   - Close the windows, doors and hood and turn off the radio, as so on.
   - Start the engine.
   - After keeping the engine at a speed of 1000 rpm for 30 sec. repeat a slow acceleration from 1000 rpm to 3000 rpm three times
10. Check to see whether the coolant flowing noise is heard from the heater core.
11. If sound is heard, repeat the step 7 until the flowing noise is no longer heard.

With device cooler filling [SST:KV115H0890 (285 589 00 21 00)]

1. Install radiator drain cock if removed.
   CAUTION:
   Be sure to clean drain cock and install with new O-ring.
2. Check that each hose clamp has been firmly tightened.
3. Bleed air in coolant according to the following procedure.



A. Cap
B. Control unit
C. Venturi nozzle
D. Feed hose
E. Coolant reservoir
F. Air drain hose
G. Air hose
Ⓗ Drain valve
Ⓘ Feed valve

NOTE:
The figure shows 2.2L DIESEL models.

a. Remove reservoir tank cap, and install cap [SST:KV115H0880 (210 589 00 91 00)] (A).
b. Connect control unit (B) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)] to cap [SST: KV115H0880 (210 589 00 91 00)] (A).
c. Install venturi nozzle (C) and feed hose (D) to control unit (B) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
d. Close drain valve Ⓗ and feed valve Ⓘ of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
e. Fill coolant to coolant reservoir (E) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
CAUTION:
Fill coolant with 2 ℓ (2-1/8 US qt, 1-6/8 Imp qt) more than the total coolant capacity for preventing air from entering due to insufficient coolant during air bleeding operation.
f. Install feed hose (D) to coolant reservoir (E) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
g. Set air drain hose (F) to device cooler filling [SST:KV115H0890 (285 589 00 21 00).
h. Connect air hose (G) to venturi nozzle (C) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
CAUTION:
Continue sending air pressure of 810 kPa (8.2 kgf/cm^2, 117 psi) or more intermittently.
i. Open drain valve Ⓗ of device cooler filling [SST:KV115H0890 (285 589 00 21 00)].
j. Open feed valve Ⓘ until feed hose (D) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)] is filled with coolant.
k. Close feed valve Ⓘ.
l. When the indication of control unit (B) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)] reaches the green zone, close drain valve Ⓗ.
m. Remove air hose (G) from venturi nozzle (C) of device cooler filling [SST:KV115H0890 (285 589 00 21 00)], and check that the vacuum is constant for 30 seconds.
CAUTION:
If not constant, apply vacuum again without leakage after checking each connection.
n. Open feed valve Ⓘ of device cooler filling [SST:KV115H0890 (285 589 00 21 00)], and suck coolant.
o. Open drain valve Ⓗ when the suction of coolant stops.
p. Remove device cooler filling [SST:KV115H0890 (285 589 00 21 00)] assembly.
q. Check the reservoir tank engine coolant level. Refer to MA-17, "ENGINE COOLANT : Inspection".

ENGINE COOLANT : Flushing

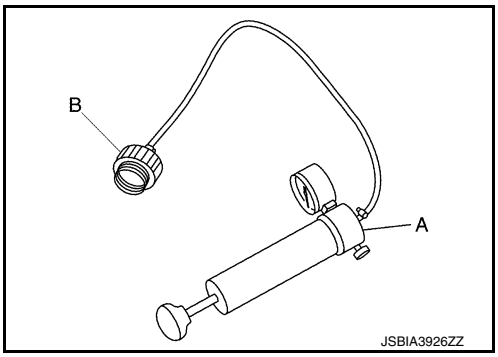
INFOID:0000000013559891

1. Install reservoir tank if removed, and radiator drain cock.
CAUTION:
Be sure to clean drain cock and install with new O-ring.
2. Fill radiator and reservoir tank with water and reinstall reservoir tank cap.
3. Run the engine and warm it up to normal operating temperature.
4. Rev the engine two or three times under no-load.
5. Stop the engine and wait until it cools down.
6. Drain water from the system. Refer to MA-17, "ENGINE COOLANT : Draining".
7. Repeat steps 1 through 6 until clear water begins to drain from radiator.
8. Check that the reservoir tank cap is tightened.

RESERVOIR TANK CAP

RESERVOIR TANK CAP : Inspection

INFOID:0000000013559892



- Fit the adapter [SST: KV115H0900 (210 589 03 63 00)] (B) to the pump press [SST: KV115H0870 (124 589 24 21 00)] (A) as shown.
- When connecting the reservoir tank cap to the pump press, apply water or Genuine NISSAN Long Life Antifreeze/Coolant (BASF Glysantin® G40®) to the reservoir tank cap seal part.
- Check reservoir tank cap relief pressure.

Standard : CO-23, "Radiator"

- Replace the reservoir tank cap if the engine coolant passes through it, or if any fur signs is detected.

CAUTION:

When installing reservoir tank cap, thoroughly wipe out the reservoir tank to remove any waxy residue or foreign material.

RADIATOR

RADIATOR : Inspection

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

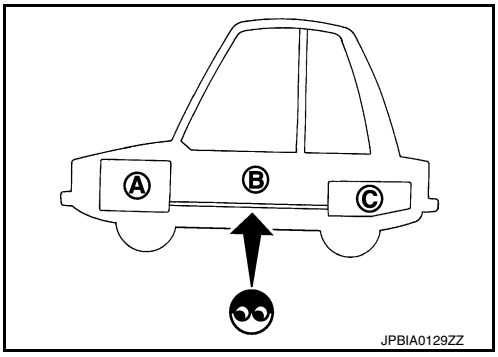
- Never bend or damage radiator fins.
- When radiator is cleaned without removal, remove all surrounding parts such as radiator cooling fan assembly and horns. Then tape harness and connectors to prevent water from entering.

1. Apply water by hose to the back side of the radiator core vertically downward.
2. Apply water again to all radiator core surfaces once per minute.
3. Stop washing if any stains no longer flow out from radiator.
4. Blow air into the back side of radiator core vertically downward.
   - Use compressed air lower than 490 kPa (5 kg/cm^2, 71 psi) and keep distance more than 30 cm (11.8 in).
5. Blow air again into all the radiator core surfaces once per minute until no water sprays out.

FUEL LINES

FUEL LINES : Inspection

INFOID:0000000013559894



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

Ⓐ : Engine

Ⓑ : Fuel line

Ⓒ : Fuel tank

If necessary, repair or replace damaged parts.

AIR CLEANER FILTER

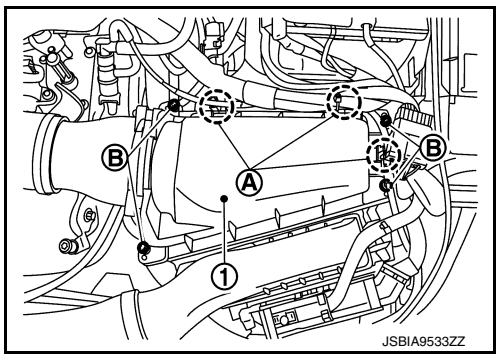
AIR CLEANER FILTER : Removal and Installation

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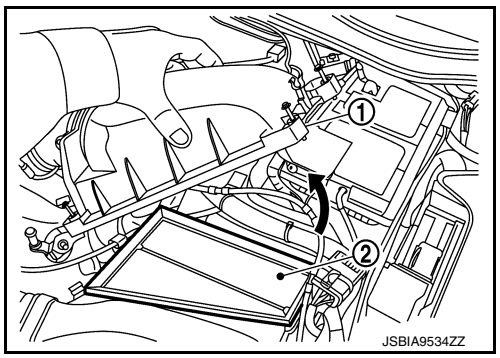
REMOVAL

1. Remove engine cover. Refer to EM-20, "Removal and Installation"

2. Remove vacuum tube from clamps Ⓐ.
3. Loosen air cleaner housing cover mounting bolt Ⓑ.
   NOTE:
   The bolts remain the air cleaner housing cover ①.



4. Pull up air cleaner housing cover ① and remove air cleaner filter element ②.



INSTALLATION

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

NOTE:

Clean the inside of air cleaner housing and the air cleaner housing cover.

ENGINE OIL

ENGINE OIL : Draining

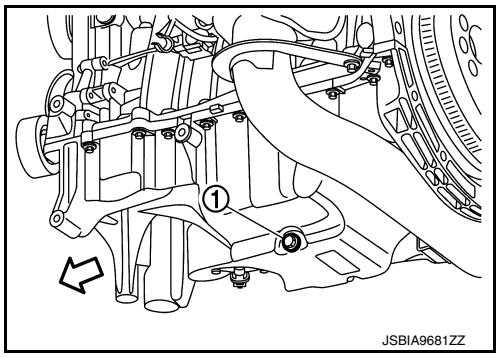
INFOID:0000000013559886

WARNING:

- **Never 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.**

1. Warm up the engine, and check for engine oil leakage from engine components. Refer to LU-7, "Inspection".
2. Remove oil filter. Refer to MA-24, "OIL FILTER : Removal and Installation".
3. Loosen oil filler cap.
4. Remove oil drain screw ① and then drain engine oil and wait for 5 minutes.

⇦ : Engine front



ENGINE OIL : Refilling

INFOID:0000000013559887

1. Install oil drain screw with new oil drain screw washer. Refer to EM-76, "Exploded View".
   CAUTION:
   Be sure to clean oil drain screw and install with new oil drain screw washer.
2. Install engine oil filter. Refer to MA-24, "OIL FILTER : Removal and Installation".

3. Refill with new engine oil.
   Engine oil specification and viscosity: Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants" (For NORTH AMERICA) or MA-13, "FOR MEXICO : Fluids and Lubricants" (For MEXICO).

   Engine oil capacity : Refer to LU-17, "Periodical Maintenance Specification".

   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 engine.**
4. Warm up the engine and check area around drain plug and oil filter for engine oil leakage.
5. Stop the engine and wait for 10 minutes.
6. Check the engine oil level. Refer to LU-7, "Inspection".
7. Perform "MAINTENANCE". Refer to MWI-68, "On Board Diagnosis Function".
   NOTE:
   Reset a service interval after refill with engine oil.

OIL FILTER

OIL FILTER : Removal and Installation

INFOID:0000000013559884

REMOVAL

CAUTION:
- **Never get burned when engine and engine oil may be hot.**
- **Completely wipe off any engine oil that adheres to engine and vehicle.**

1. Remove engine cover. Refer to EM-20, "Removal and Installation".
2. Remove engine oil level gauge. Refer to LU-7, "Inspection".
3. Place a tray or an equivalent around the oil filter housing in case engine oil spills.
4. Remove oil filter screw cap.
   CAUTION:
   Never spill engine oil on drive belt.
5. Remove oil filter from oil filter screw cap.

INSTALLATION

1. Remove foreign materials adhering to oil filter installation surface.
2. Apply engine oil to the oil ring contact surface of new oil filter.
   CAUTION:
   Do not reuse O-rings.
3. Screw oil filter screw cap manually until it touches the installation surface, then tighten to the specification. Refer to LU-11, "Exploded View".

OIL FILTER : Inspection

INFOID:0000000013559885

INSPECTION AFTER INSTALLATION

1. Check the engine oil level. Refer to LU-7, "Inspection".
2. Start the engine, and check there is no leak of engine oil.
3. Stop the engine and wait for 10 minutes.
4. Check the engine oil level, and adjust the level. Refer to LU-7, "Inspection".

SPARK PLUG

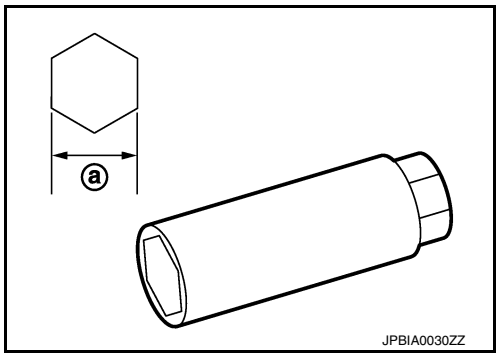
SPARK PLUG : Removal and Installation

INFOID:0000000013623505

REMOVAL

1. Remove engine cover. Refer to EM-20, "Removal and Installation".
2. Remove air duct (turbocharger side). Refer to EM-23, "Removal and Installation".

3. Remove ignition coil. Refer to EM-58, "Removal and Installation".
4. Remove spark plug with spark plug wrench (commercial service tool).



ⓐ: **14 mm (0.55 in)**

CAUTION:
- **Never drop or shock spark plug.**
- **Never disassemble ignition coil.**

INSTALLAITON

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

NOTE:

If sensors is replaced, carry out the reset of adoption of sensors. Refer to EC-182, "Special Repair Requirement List".

SPARK PLUG : Inspection

INFOID:0000000013623506

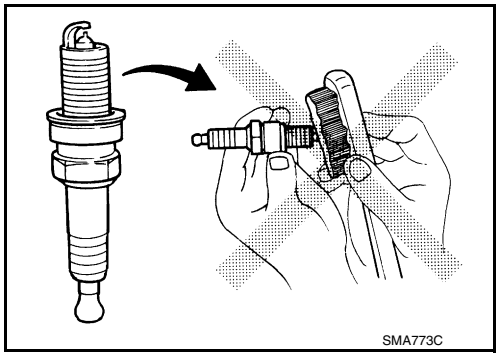
INSPECTION AFTER REMOVAL

Use standard type spark plug for normal condition.

Spark plug (standard) : Refer to EM-102, "Spark Plug".

Visually check the electrode for dirt and wear and the insulator for burning.

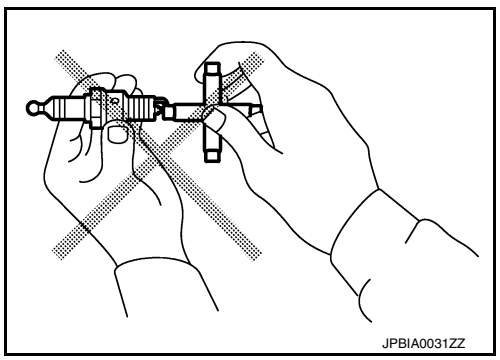
CAUTION:
- **Never drop or shock spark plug.**
- **Never use wire brush for cleaning.**
- **If plug tip is covered with carbon, spark plug cleaner may be used.**



Cleaner air pressure: **Less than 588 kPa (6 kg/cm^2, 85 psi)**

Cleaning time: **Less than 20 seconds**

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



EVAP VAPOR LINES

EVAP VAPOR LINES : Inspection

INFOID:0000000013583533

1. Visually inspect EVAP vapor lines for improper attachment and for cracks, damage, loose connections, chafing and deterioration. Refer to EC-961, "Inspection".

2. Inspect fuel tank filler cap vacuum relief valve for clogging, sticking, etc.

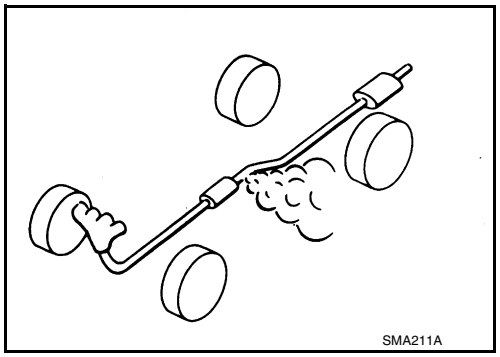
CHASSIS MAINTENANCE

EXHAUST SYSTEM

EXHAUST SYSTEM : Inspection

INFOID:0000000013559896

Check exhaust pipes, muffler and mounting for improper attachment, leaks, cracks, damage or deterioration.
- If anything is found, repair or replace damaged parts.


SMA211A

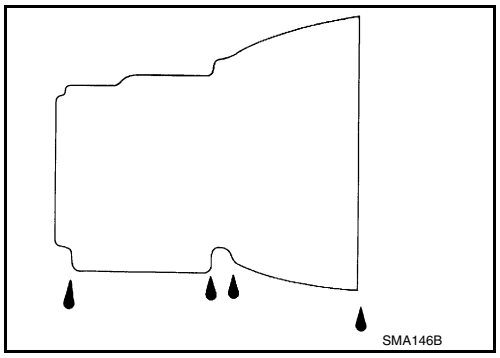
TRANSAXLE FLUID

TRANSAXLE FLUID : Inspection

INFOID:0000000013994694

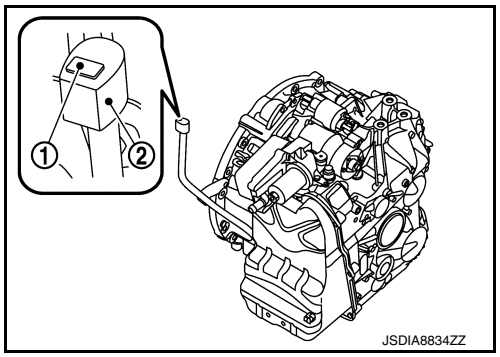
FLUID LEAKAGE

- Check transaxle surrounding area (oil seal and plug etc.) for fluid leakage.
- If anything is found, repair or replace damaged parts and adjust transaxle fluid level. Refer to MA-30, "TRANSAXLE FLUID : Adjustment".


SMA146B

TRANSAXLE FLUID LEVEL

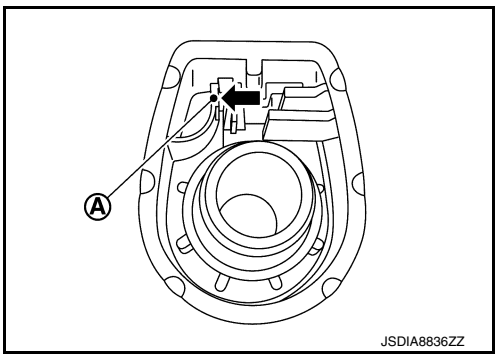
1. Remove air duct (dust side). Refer to EM-23, "Removal and Installation".
2. Connect CONSULT. Refer to GI-64, "Description".
3. Apply the parking brake and start the engine.
4. Select “TRANSMISSION”, “Work Support”, “Oil level check” in this order.
5. Proceed to “Oil level check”, according to instructions shown on the CONSULT screen.
6. Remove locking pin ① and remove cap ② from transaxle fluid charging pipe.
   CAUTION:
   Never reuse locking pin.



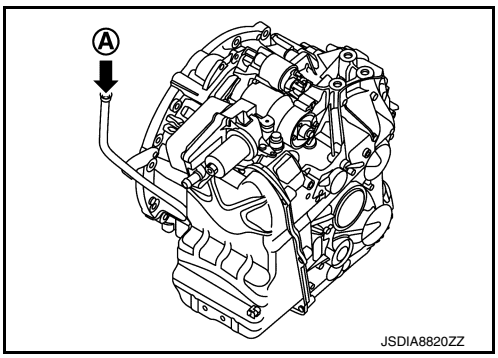
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NOTE:

Locking pin can be removable by pressing lock plate Ⓐ of cap in the direction shown by arrow.



7. Insert dipstick [SST: KV315H0340 (TechMate No. -) (DAIMLER tool No. 168 589 012 100)] into hole Ⓐ of transaxle fluid charging pipe.
NOTE:
Inset dipstick all the way to the base.



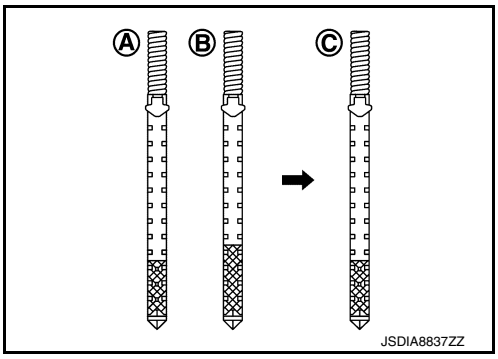
8. Measure transaxle fluid level three times with a dipstick.

Engine type			1.6L turbo engine	2.0L turbo engine
Transaxle fluid level	Transaxle fluid temeperature	40 °C (104 °F)	3 scales	4 scales
		70 °C (158 °F)	4 scales	5 scales

NOTE:
- Wipe out transaxle fluid adhered to dipstick each time by using a lint-free waste.
- How to read scales.

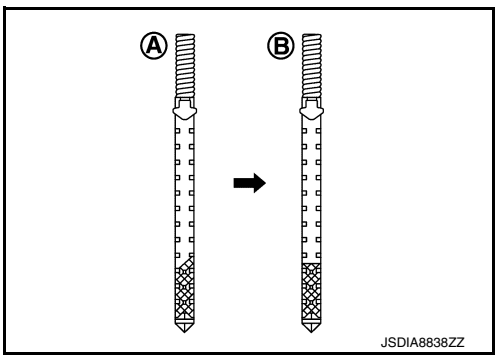
- If there are variations in the measurement results:

Ⓐ : 3.5 scales
Ⓑ : 4.5 scales
Ⓒ : Actual scale (3.5 scales)



- If the measurement results show that oil level is slanted:

Ⓐ : 3 - 4 scales
Ⓑ : Actual scale (3.5 scales)



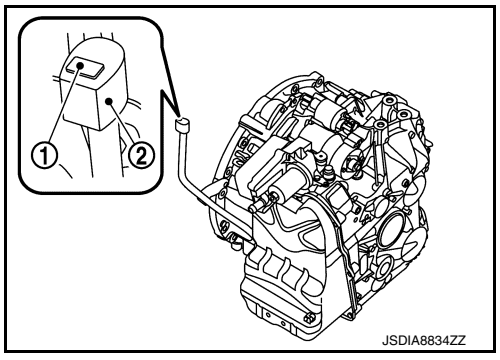
9. Adjust transaxle fluid level, if necessary. Refer to MA-30, "TRANSAXLE FLUID : Adjustment".
10. Complete “Oil level check”, according to instructions shown on the CONSULT screen.
11. Stop the engine.

TRANSAXLE FLUID : Changing

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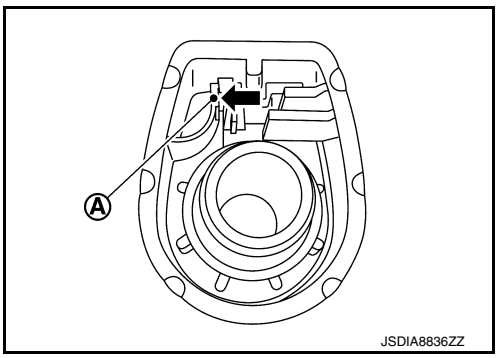
Recommended fluid and fluid capacity	: Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants" (for North America) or MA-13, "FOR MEXICO : Fluids and Lubricants" (for Mexico)

1. Apply the parking brake and start the engine.
2. Warm up the engine.
3. Shift through P-R-N-D several times with the vehicle stationary and the engine idling.
4. Select the N position.
5. Stop the engine.
6. Lift up the vehicle.
7. Remove engine under cover. Refer to EXT-44, "ENGINE UNDER COVER : Removal and Installation".
8. Remove the drain plug from the transaxle case, and then drain the transaxle fluid.
   CAUTION:
   Never get burn yourself, as transaxle fluid may be hot.
9. Remove the oil pan. Refer to TM-216, "Removal and Installation".
10. Remove the transaxle fluid filter. Refer to TM-216, "Removal and Installation".
11. Lift down the vehicle.
12. Remove the transaxle cooling module cap. Refer to TM-223, "Removal and Installation".
13. Remove the transaxle cooling module element. Refer to TM-223, "Removal and Installation".
14. Clean the oil pan.
15. Clean the drain plug.
16. Lift up the vehicle.
17. Install the new transaxle fluid filter with new O-ring. Refer to TM-216, "Removal and Installation".
18. Install the oil pan. Refer to TM-216, "Removal and Installation".
19. Install the drain plug with new oil seal. Refer to TM-216, "Removal and Installation".
20. Install the engine under cover.
21. Lift down the vehicle.
22. Install the new transaxle cooling module element. Refer to TM-216, "Removal and Installation".
23. Install the transaxle cooling module cap with new O-ring. Refer to TM-223, "Removal and Installation".
24. Remove locking pin ① and remove cap ② from transaxle fluid charging pipe.



NOTE:

Locking pin can be removable by pressing lock plate Ⓐ of cap in the direction shown by arrow.



25. Fill the new transaxle fluid.
CAUTION:
Never start the engine while filling the transaxle fluid.

Transaxle fluid : 4 liters

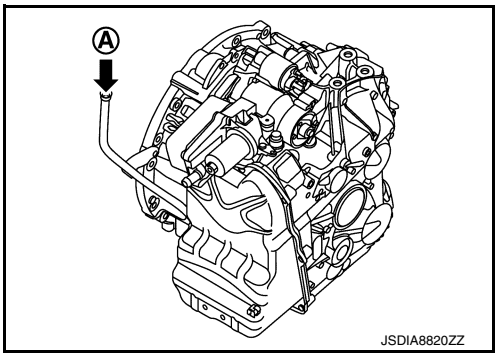
26. Adjust transaxle fluid level, if necessary. Refer to MA-30, "TRANSAXLE FLUID : Adjustment".

TRANSAXLE FLUID : Adjustment

INFOID:0000000013994696

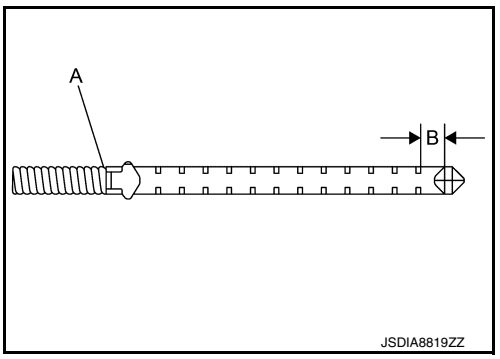
Recommended fluid and fluid capacity	: Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants" (for North America) or MA-13, "FOR MEXICO : Fluids and Lubricants" (for Mexico)

1. Remove air duct (dust side). Refer to EM-23, "Removal and Installation".
2. Connect CONSULT. Refer to GI-64, "Description".
3. Apply the parking brake and start the engine.
4. Select “TRANSMISSION”, “Work Support”, “Oil level check” in this order.
5. Proceed to “Oil level check”, according to instructions shown on the CONSULT screen.
6. Check the transaxle fluid level. Refer to MA-27, "TRANSAXLE FLUID : Inspection".
7. Adjust transaxle fluid level by injecting/discharging transaxle fluid from hole Ⓐ of transaxle fluid charging pipe by using an appropriate tool.



NOTE:
- The scales (B) on dipstick [SST: KV315H0340 (TechMate No. -) (DAIMLER tool No. 168 589 012 100)] (A) are marked at intervals of 5 mm (0.20 in).
- To increase transaxle fluid level by 1 mm (0.04 in), it is necessary to inject approximately 50 ml of transaxle fluid.

8. Complete “Oil level check”, according to instructions shown on the CONSULT screen.
9. Stop the engine.



TRANSFER OIL

TRANSFER OIL : Transfer Oil

INFOID:0000000013623508

NOTE:
Refer to TM-212, "Inspection", because transfer unit is completely integrated into the transaxle assembly and a collective oil system is implemented.

REAR PROPELLER SHAFT

REAR PROPELLER SHAFT : Inspection

INFOID:0000000013623509

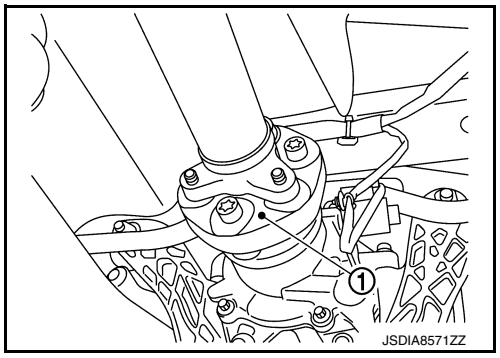
NOTE:
Before inspection, clear the work space around the propeller shaft. Refer to DLN-87, "Removal and Installation".

LOOSENESS OF CONNECTED PART

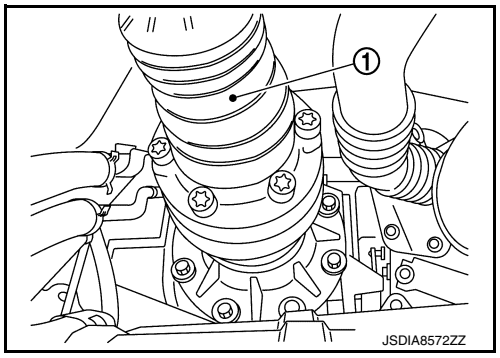
Check each fixing bolt for looseness using torque wrench. For each tightening torque, refer to DLN-86, "Exploded View".

APPEARANCE AND NOISE

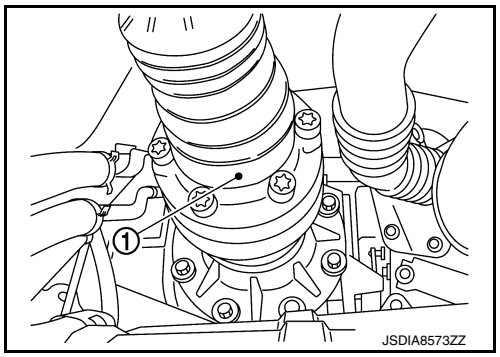
- Check the propeller shaft tube surface for dents or cracks. If malfunction is detected, replace propeller shaft assembly.
- If center bearing is noisy or damaged, replace propeller shaft assembly.
- Check flex disk ① for crack formation, wear, damage and deformation. If malfunction is detected, replace flex disk.



- Check propeller shaft boot ① for crack formation, wear, damage and deformation. If malfunction is detected, replace propeller shaft assembly.



- Check clamps ① are firmly seated. If malfunction is detected, replace propeller shaft assembly.



REAR DIFFERENTIAL GEAR OIL

REAR DIFFERENTIAL GEAR OIL : Inspection

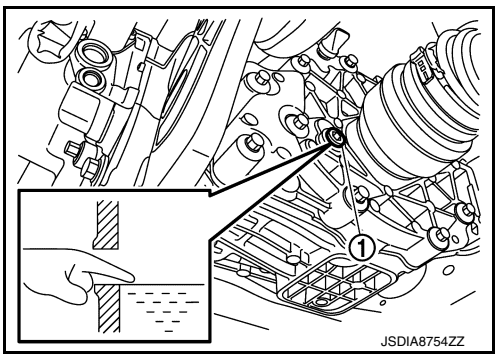
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OIL LEAKAGE

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

OIL LEVEL

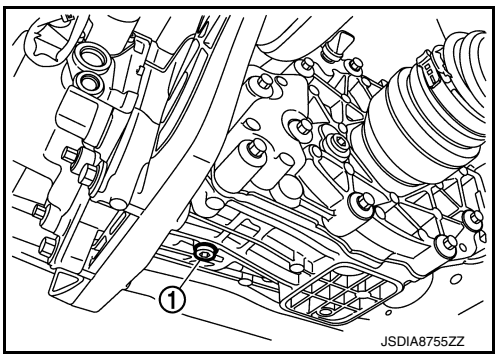
1. Check oil level from filler plug mounting hole as shown in the figure after removing filler plug ① and gasket from final drive assembly.
   CAUTION:
   Turn the ignition switch OFF while checking oil level.
   • Oil level should be level with bottom of filler plug mounting hole. Add gear oil if necessary. Refer to MA-32, "REAR DIFFERENTIAL GEAR OIL : Refilling".
2. Set a gasket on filler plug and install it on final drive assembly.
   CAUTION:
   Never reuse gasket.
3. Tighten filler plug to the specified torque. Refer to DLN-102, "Exploded View".



REAR DIFFERENTIAL GEAR OIL : Draining

INFOID:0000000013623511

1. Shift transaxle to the neutral position, and then release parking brake.
2. Remove drain plug ① and gasket.
3. Drain gear oil.
   NOTE:
   Removing filler plug can make the work easier.
4. Rotate both rear wheels five revolutions simultaneously in same direction of travel.
   CAUTION:
   The front wheels must remain stationary. Otherwise not all of the oil will be drained from the final drive assembly.
5. Set a gasket on drain plug and install it to final drive assembly.
   CAUTION:
   Never reuse gasket.
6. Tighten drain plug to the specified torque. Refer to DLN-102, "Exploded View".



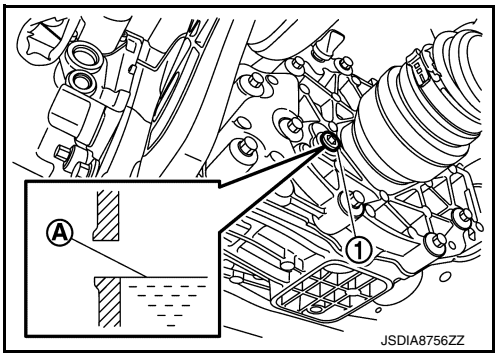
REAR DIFFERENTIAL GEAR OIL : Refilling

INFOID:0000000013623512

1. Fill with new gear oil until oil level reaches the specified level Ⓐ at filler plug mounting hole, after removing filler plug ① from final drive assembly.

   Recommended oil and capacity : Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants".

2. After refilling gear oil, check the oil level. Refer to MA-31, "REAR DIFFERENTIAL GEAR OIL : Inspection".
3. Set a gasket on filler plug, and install it to final drive assembly.
   CAUTION:
   Never reuse gasket.
4. Tighten filler plug to the specified torque. Refer to DLN-102, "Exploded View".
5. Reset oil service data and check function of AWD solenoid component with CONSULT. Refer to DLN-28, "Description".



WHEELS

WHEELS : Adjustment

INFOID:0000000013623513

BALANCING WHEELS

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 (Aluminum Wheel)

- 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.
- The details of the adjustment procedure are different for each model of wheel balancer. Therefore, refer to each instruction manual.

1. Set road wheel on tire balance machine using the center hole as a guide. Start the tire balance machine.
2. When inner and outer unbalance values are shown on the tire balance machine indicator, multiply outer unbalance value by 5/3 to determine balance weight that should be used. Select the outer balance weight with a value closest to the calculated value above and install to the designated outer position of, or at the designated angle in relation to the road wheel.

   CAUTION:
   - **Never install the inner balance weight before installing the outer balance weight.**
   - **Before installing the balance weight, always to clean the mating surface of the road wheel.**

a. Indicated unbalance value × 5/3 = balance weight to be installed

   Calculation example:

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

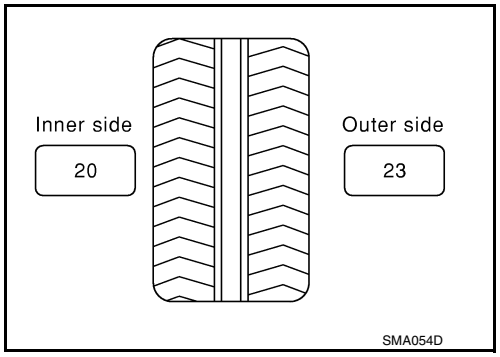
   NOTE:

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

   Example:

   36.2 ⇒ 35 g (1.23 oz)

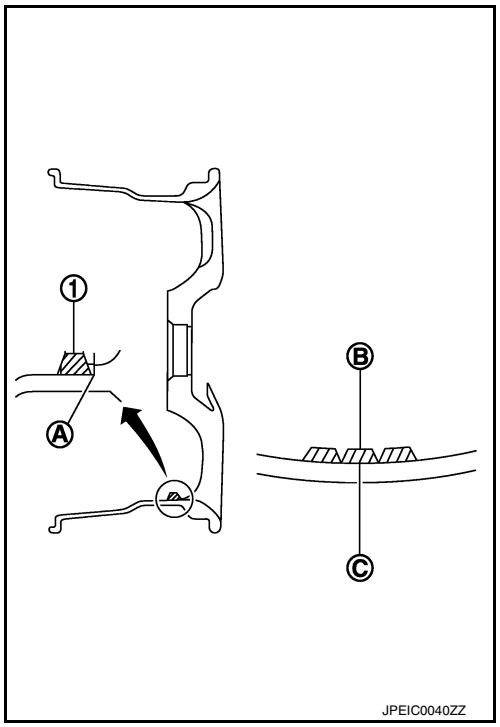
   36.3 ⇒ 37.5 g (1.32 oz)



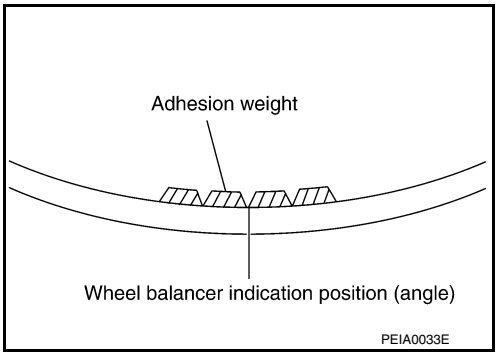
b. Installed balance weight in the position.

   - When installing balance weight ① 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 adhesion balance weights.**
   - **Balance weights are non-reusable; always replace with new ones.**
   - **Never install three or more sheets of balance weight.**



c. If calculated balance weight value exceeds 50 g (1.76 oz), install two balance weight sheets in line with each other as shown in the figure.
CAUTION:
Never install one balance weight sheet on top of another.



3. Start the 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:
Never install three or more balance weight.
5. Start the tire balance machine. Check that the inner and outer residual unbalance value is within the allowable unbalance value.
CAUTION:
If either residual unbalance value exceeds limit, repeat installation procedures.

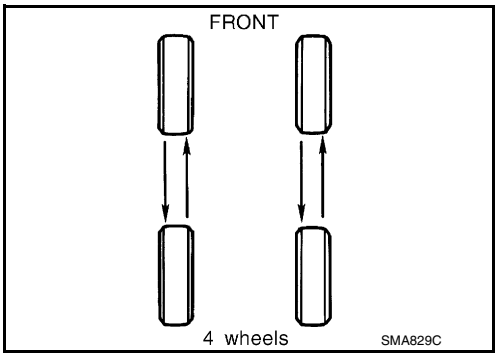
Allowable unbalance value

Dynamic (At flange) : Refer to WT-76, "Road Wheel".

Static (At flange) : Refer to WT-76, "Road Wheel".

TIRE ROTATION

- Change round wheel and tire assemblies on front and rear axle.
CAUTION:
Maintain running direction of wheel and tire assembles.
Otherwise handling characteristics and handling comfort may be impaired and tire wear increased.
- Follow the maintenance schedule for tire rotation service intervals.
- FOR NORTH AMERICA: Refer to MA-4, "FOR NORTH AMERICA : Explanation of General Maintenance".
- FOR MEXICO: Refer to MA-5, "FOR MEXICO : General Maintenance".
- When installing the wheel, tighten wheel bolts to the specified torque. Refer to WT-70, "Exploded View".
CAUTION:
  - **When installing wheels, tighten them diagonally by dividing the work two to three times in order to prevent the wheels from developing any distortion.**
  - **Be careful not to tighten wheel bolt at torque exceeding the criteria.**
  - **Use genuine wheel bolts.**



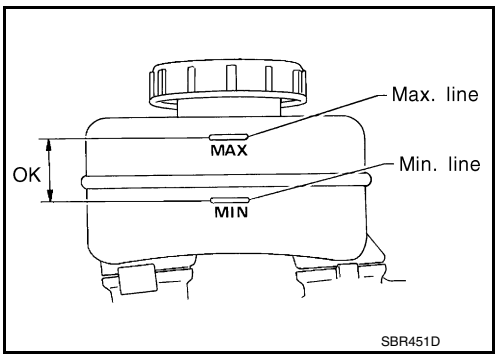
- Perform the ID registration, after tire rotation. Refer to WT-32, "Description".

BRAKE FLUID LEVEL AND LEAKS

BRAKE FLUID LEVEL AND LEAKS : Inspection

INFOID:0000000013501696

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

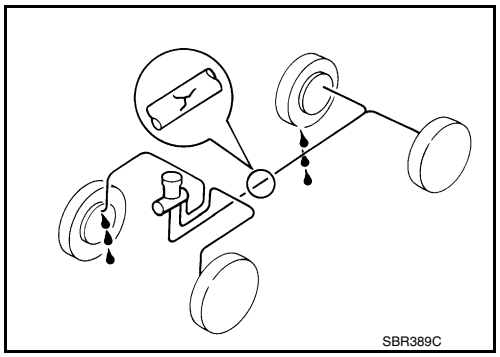


BRAKE LINES AND CABLES

BRAKE LINES AND CABLES : Inspection

INFOID:0000000013501697

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

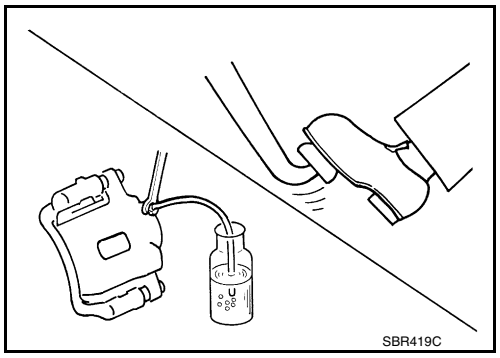

SBR389C

BRAKE FLUID

BRAKE FLUID : Changing

INFOID:0000000013501698

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-12, "Bleeding Brake System".
   - Refill with recommended brake fluid.
     Refer to MA-12, "FOR NORTH AMERICA : Fluids and Lubricants".
   - Never reuse drained brake fluid.
   - Be careful not to splash brake fluid on painted areas.


SBR419C

DISC BRAKE

DISC BRAKE : Inspection

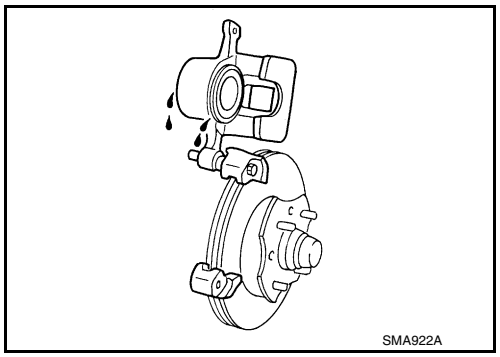
INFOID:0000000013501699

DISC ROTOR

Check condition, wear, and damage.

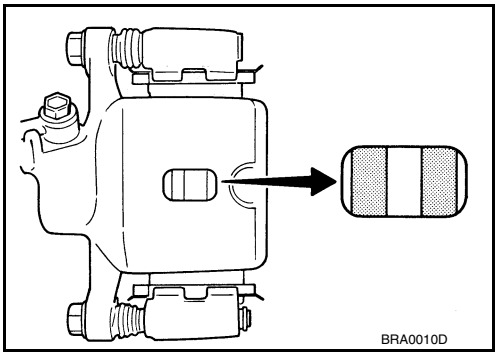
CALIPER

- Check for leakage.


SMA922A

BRAKE PAD

- Check for wear or damage.



DISC BRAKE : Front Disc Brake

INFOID:0000000013623514

1.6L TURBO ENGINE

Unit: mm (in)

Item			Limit
Brake pad	Wear thickness		2.0 (0.079)
Disc rotor	Wear thickness		25.4 (0.1000)
	Thickness variation*	uneven at 1 position	0.008 (0.0003)
		uneven at 2 positions	0.005 (0.0002)
		uneven at 3 positions	0.004 (0.0002)
		uneven at 4 positions or more	Not allowed
	Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

2.0L TURBO ENGINE

Except Sport grade

Unit: mm (in)

Item			Limit
Brake pad	Wear thickness		2.0 (0.079)
Disc rotor	Wear thickness		27.4 (1.079)
	Thickness variation*	uneven at 1 position	0.008 (0.0003)
		uneven at 2 positions	0.005 (0.0002)
		uneven at 3 positions	0.004 (0.0002)
		uneven at 4 positions or more	Not allowed
	Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

Sport grade

Unit: mm (in)

Item			Limit
Brake pad	Wear thickness		2.0 (0.079)
Disc rotor	Wear thickness		28 (1.10)
	Thickness variation*	uneven at 1 position	0.008 (0.0003)
		uneven at 2 positions	0.005 (0.0002)
		uneven at 3 positions	0.004 (0.0002)
		uneven at 4 positions or more	Not allowed
	Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

DISC BRAKE : Rear Disc Brake

INFOID:0000000013623515

1.6L TURBO ENGINE

Unit: mm (in)

Item			Limit
Brake pad	Wear thickness		2.0 (0.079)
Disc rotor	Wear thickness		8.3 (0.327)
	Thickness variation*	uneven at 1 position	0.008 (0.0003)
		uneven at 2 positions	0.005 (0.0002)
		uneven at 3 positions	0.004 (0.0002)
		uneven at 4 positions or more	Not allowed
	Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

2.0L TURBO ENGINE

Except CANADA

Unit: mm (in)

Item			Limit
Brake pad	Wear thickness		2.0 (0.079)
Disc rotor	Wear thickness		8.3 (0.327)
	Thickness variation*	uneven at 1 position	0.008 (0.0003)
		uneven at 2 positions	0.005 (0.0002)
		uneven at 3 positions	0.004 (0.0002)
		uneven at 4 positions or more	Not allowed
	Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

CANADA

Unit: mm (in)

Item				Limit
Brake pad		Wear thickness		2.0 (0.079)
Disc rotor	2WD	Wear thickness		8.3 (0.327)
		Thickness variation*	uneven at 1 position	0.008 (0.0003)
			uneven at 2 positions	0.005 (0.0002)
			uneven at 3 positions	0.004 (0.0002)
			uneven at 4 positions or more	Not allowed
		Runout (with it attached to the vehicle)		0.05 (0.0020)
	AWD	Wear thickness		19.4 (0.764)
		Thickness variation*	uneven at 1 position	0.008 (0.0003)
			uneven at 2 positions	0.005 (0.0002)
			uneven at 3 positions	0.004 (0.0002)
			uneven at 4 positions or more	Not allowed
		Runout (with it attached to the vehicle)		0.05 (0.0020)

*To check if rotor imbalance, rotor runout deformation is occured.

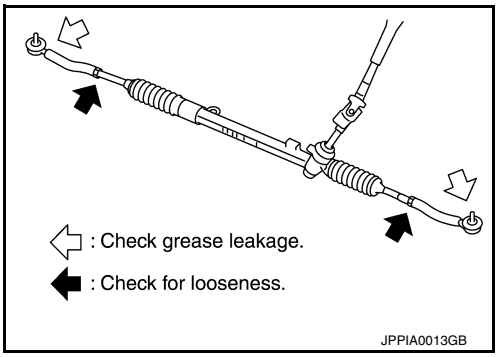
STEERING GEAR AND LINKAGE

STEERING GEAR AND LINKAGE : Inspection

INFOID:0000000013501705

STEERING GEAR

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



STEERING LINKAGE

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

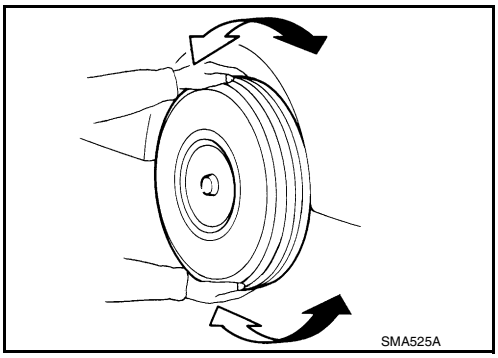
AXLE AND SUSPENSION PARTS

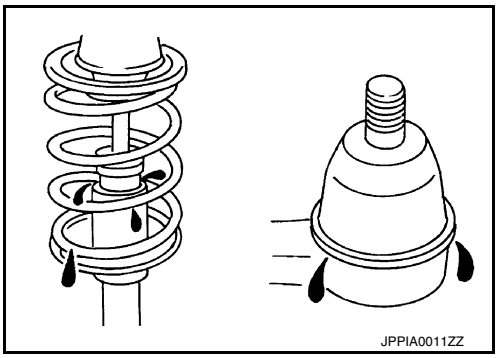
AXLE AND SUSPENSION PARTS : Inspection

INFOID:0000000013501706

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

- Shake each wheel to check for excessive play.
- Check wheel bearings for smooth operation.
- Check axle and suspension nuts and bolts for looseness.
- Check strut (shock absorber) for oil leakage or other damage.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.



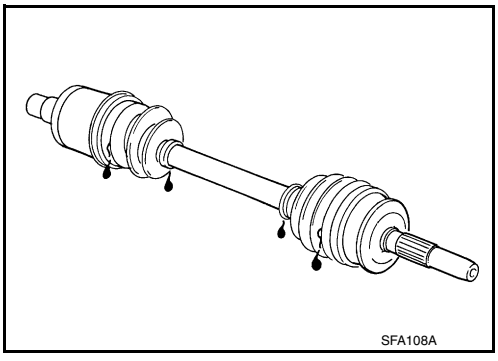


DRIVE SHAFT

DRIVE SHAFT : Inspection

INFOID:0000000013501707

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



BODY MAINTENANCE

LOCKS, HINGES AND HOOD LATCH

LOCKS, HINGES AND HOOD LATCH : Lubricating

INFOID:0000000013501708

For hood and hood lock illustration.
- Hood: Refer to DLK-230, "Exploded View".
- Hood lock: Refer to DLK-261, "Exploded View".

For back door illustration.
- Back door: Refer to DLK-254, "Exploded View".

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS

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

INFOID:0000000013501709

For front seat belt illustration. Refer to SB-7, "Exploded View".
For rear seat belt illustration. Refer to SB-14, "Exploded View".

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 SB-10, "SEAT BELT RETRACTOR : Inspection", SB-17, "SEAT BELT RETRACTOR : Inspection" in SB section.
- Check anchors for loose mounting
- Check belts for damage
- Check retractor for smooth operation
- Check function of buckles and tongues when buckled and released

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

DRIVE BELT

DRIVE BELT : Drive Belt

INFOID:0000000013676239

DRIVE BELT

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

ENGINE COOLANT

ENGINE COOLANT : Periodical Maintenance Specification

INFOID:0000000013559939

ENGINE COOLANT CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

Engine coolant capacity [With reservoir tank (“MAX” level)]	7.6 (8, 6-5/8)

ENGINE OIL

ENGINE OIL : Periodical Maintenance Specification

INFOID:0000000013559938

ENGINE OIL CAPACITY (APPROXIMATE)

Unit: ℓ (US qt, Imp qt)

Drain and refill	With oil filter change	1.6 L TURBO ENGINE	5.8 (6-1/8, 5-1/8)
		2.0 L TURBO ENGINE	5.6 (5-7/8, 4-7/8)

SPARK PLUG

SPARK PLUG : Spark Plug

INFOID:0000000013675738

SPARK PLUG

Unit: mm (in)

Make	NGK
Standard type*	SILZKFR8C7S

*: Always check with the Parts Department for the latest parts information.

ROAD WHEEL

ROAD WHEEL : Road Wheel

INFOID:0000000013559941

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