# SECTION MAINTENANCE C

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## CONTENTS

PREPARATION3
PREPARATION       3         Special Service Tool       3         Commercial Service Tool       3
ON-VEHICLE MAINTENANCE4
GENERAL MAINTENANCE
PERIODIC MAINTENANCE
RECOMMENDED FLUIDS AND LUBRI-
CANTS    12      Fluids and Lubricants    12      Engine Oil Recommendation    12
ENGINE MAINTENANCE (QR25DE)14
DRIVE BELTS       14         DRIVE BELTS : Checking Drive Belts       14         DRIVE BELTS : Tension Adjustment       14
ENGINE COOLANT14 ENGINE COOLANT : Changing Engine Coolant14
FUEL LINES       16         FUEL LINES : Inspection       16
AIR CLEANER FILTER
ENGINE OIL
OIL FILTER
SPARK PLUG19

SPARK PLUG : Removal and Installation	F
EVAP VAPOR LINES	G
ENGINE MAINTENANCE (VQ35DE)21	
DRIVE BELTS	Η
ENGINE COOLANT21 ENGINE COOLANT : Changing Engine Coolant21	
FUEL LINES	J
AIR CLEANER FILTER	K
ENGINE OIL24 ENGINE OIL : Changing Engine Oil24	L
OIL FILTER25 OIL FILTER : Removal and Installation	М
SPARK PLUG	
EVAP VAPOR LINES	Ν
CHASSIS AND BODY MAINTENANCE	0
IN-CABIN MICROFILTER	1A
EXHAUST SYSTEM	
<b>CVT FLUID29</b> CVT FLUID : RE0F09B	

CVT FLUID : Changing CVT FLUID : RE0F10A CVT FLUID : Inspection CVT FLUID : Changing CVT Fluid	31 31
M/T OIL	
M/T OIL : Draining	
M/T OIL : Refilling M/T OIL : Inspection	
WHEELS	
WHEELS : Inspection	34
BRAKE FLUID LEVEL AND LEAKS BRAKE FLUID LEVEL AND LEAKS : Inspection	
BRAKE LINES AND CABLES	35
BRAKE LINES AND CABLES : Inspection	35
BRAKE FLUID	35
BRAKE FLUID : Draining	
BRAKE FLUID : Refilling	
DISC BRAKE	36
DISC BRAKE : Front Brake Pad	
DISC BRAKE : Inspection	
DISC BRAKE : Front Brake Rotor	
DISC BRAKE : Inspection	37

DISC BRAKE : Rear Brake Pad
DISC BRAKE : Rear Brake Rotor
DISC BRAKE : Inspection
STEERING GEAR AND LINKAGE
STEERING GEAR AND LINKAGE : Inspection 38
POWER STEERING FLUID AND LINES
tion
AXLE AND SUSPENSION PARTS
DRIVE SHAFT40 DRIVE SHAFT : Inspection40
LOCKS, HINGES AND HOOD LATCH
LOCKS, HINGES AND HOOD LATCH : Lubricat- ing - Sedan
SEAT BELT, BUCKLES, RETRACTORS, AN- CHORS AND ADJUSTERS41
SEAT BELT, BUCKLES, RETRACTORS, AN-
CHORS AND ADJUSTERS : Inspection41

#### PREPARATION

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## PREPARATION

## PREPARATION

#### **Special Service Tool**

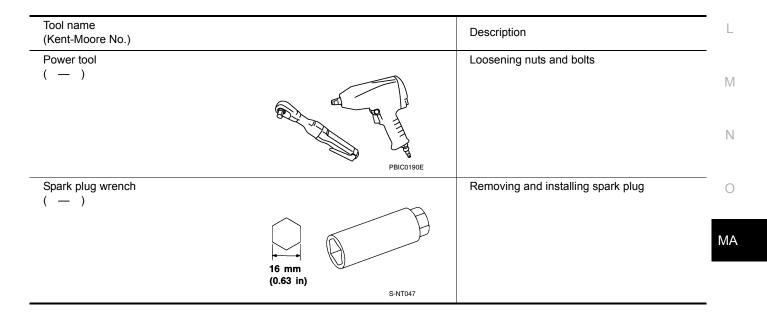
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#### The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name		Description	С
KV10115801 (J-38956) Oil filter wrench		Removing and installing oil filter a: 64.3 mm (2.531 in)	D
	S-NT375		_
KV991J0070 (J-45695) Coolant Refill Tool		Refilling engine cooling system	F G H
 (J-23688) Engine coolant refractometer		Checking concentration of ethylene glycol in engine coolant	I
	WBIA0539E		

#### **Commercial Service Tool**

INFOID:000000004202039 K



#### < ON-VEHICLE MAINTENANCE >

## ON-VEHICLE MAINTENANCE

#### **Explanation General Maintenance**

INFOID:000000004202040

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	<u>WT-70</u>			
Wheel nuts	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	<u>WT-66</u>		
Windshield	Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.	_		
Tire rotation	Tires should be rotated every 12,000 km (7,500 miles).	<u>WT-66</u>		
Tire Pressure Moni- toring System (TPMS) transmitter compo- nents	Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.	<u>WT-10</u>		
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.	<u>FSU-16</u> and <u>WT-64</u>		
Windshield wiper blades	Check for cracks or wear if they do not wipe properly.	_		
Doors and engine hood	Check that all doors and the engine hood operate smoothly as well as the trunk lid. 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 lubri- cation frequently.	<u>MA-40</u>		
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 head-lamp aim. Clean the headlamps on a regular basis.	_		

#### INSIDE THE VEHICLE

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

Item		Reference page
Warning lamps and chimes	Make sure that all warning lamps and chimes are operating properly.	
Windshield wiper and washer	Check that the wipers and washer operate properly and that the wipers do not streak.	_
Windshield defroster	Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	_
Steering wheel	Check that it has the specified play. Be sure to check for changes in the steering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	_
Seats	Check seat position controls such as seat adjusters, seatback recliner, etc. to make sure they operate smoothly and that all latches lock securely in every position. Check that the head restrains move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks.	_



#### **GENERAL MAINTENANCE**

#### < ON-VEHICLE MAINTENANCE >

Item		Reference page
Seat belts	<u>SB-4</u>	
Accelerator pedal	Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.	—
Brakes	Check that the brake does not pull the vehicle to one side when applied.	_
Brake pedal and booster	Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	<u>BR-9</u> , <u>BR-9</u>
Clutch pedal	Make sure the pedal operates smoothly and check that it has the proper free play.	CL-6, "Inspection and Adjustment"
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.	<u>PB-3</u> (Pedal) <u>PB-3</u> (Lever)
CVT P (Park) position mechanism	On a fairly steep hill check that the vehicle is held securely with the selector lever in the P (Park) position without applying any brakes.	_

#### UNDER THE HOOD AND VEHICLE

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

Item		Reference page	
Windshield washer fluid	Check that there is adequate fluid in the tank.	_	
Engine coolant level	Check the coolant level when the engine is cold.	<u>CO-11</u> (QR25DE) <u>CO-34</u> (VQ35DE)	
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 level	Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir.	<u>BR-15</u>	
Battery	Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.	<u>PG-70</u>	
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	<u>EM-16</u> (QR25DE) <u>EM-121</u> (VQ35DE)	
Engine oil level	Check the level on the oil level gauge after parking the vehicle on a level spot and turning off the engine.	<u>LU-9</u> (QR25DE) <u>LU-23</u> (VQ35DE)	
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.	<u>MA-39</u>	
Exhaust system	Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the trouble and correct it.	<u>MA-29</u>	
Underbody	The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these sub- stances, 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.	_	

#### < ON-VEHICLE MAINTENANCE >

#### 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.

	Follow Periodic Maintenance Schedule 1 if the driving habits frequently include one or more of the following driving conditions:	Emission Control Sys- tem Maintenance	<u>MA-6</u>
Schedule 1	<ul> <li>Repeated short trips of less than 5 miles (8 km).</li> <li>Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.</li> <li>Operating in hot weather in stop-and-go "rush hour" traffic.</li> <li>Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.</li> <li>Driving in dusty conditions.</li> <li>Driving on rough, muddy, or salt spread roads.</li> <li>Towing a trailer, using a camper or a car-top carrier.</li> </ul>	Chassis and Body Maintenance	<u>MA-6</u>
Schedule 2	Follow Periodic Maintenance Schedule 2 if none of driving conditions shown in Schedule 1 apply to the driving habits.	Emission Control Sys- tem Maintenance	<u>MA-9</u>
		Chassis and Body Maintenance	<u>MA-9</u>

#### Schedule 1

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#### EMISSION CONTROL SYSTEM

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

MAINTENANCE OPERATION			MAINTENANCE INTERVAL					Reference		
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.50 (12) 6	11.25 (18) 9	15 (24) 12	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	Section - Page or - Content Title
Drive belts	NOTE (1)									<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)
Air cleaner filter	NOTE (2)								[R]	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)
EVAP vapor lines									*	<u>MA-20</u> (QR25DE) <u>MA-27</u> (VQ35DE)
Fuel lines									*	<u>MA-16</u> (QR25DE) <u>MA-23</u> (VQ35DE)
Fuel filter	NOTE (3)									
Engine coolant	NOTE (4)									<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)
Engine oil		R	R	R	R	R	R	R	R	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)

#### < ON-VEHICLE MAINTENANCE >

MAINTENANCE OPERATION				TENAN	CE INTEI	RVAL			Reference	٨	
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.50 (12) 6	11.25 (18) 9	15 (24) 12	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	Section - Page or - Content Title	A
Engine oil filter [Use Genuine NISSAN engine oil filter or equivalent.]		R	R	R	R	R	R	R	R	<u>MA-18</u> (QR25DE) <u>MA-25</u> (VQ35DE)	B
Spark plugs (Iridium-tipped type)			Repl	ace ever	y 105,00	00 miles (	169,000	km).		<u>MA-19</u> (QR25DE) <u>MA-26</u> (VQ35DE)	D
Intake & exhaust valve clear- ance*	NOTE (5)									EM-99. "Stan- dard and Lim- <u>it</u> " (QR25DE) EM-231, "Cylinder He <u>ad"</u> (VQ35DE)	E

MAINTENANCE OPERATION				MAIN	TENAN	CE INTER	RVAL			Reference	G
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Section - Page or - Content Title	Н
Drive belts	NOTE (1)								*	<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)	I
Air cleaner filter	NOTE (2)								[R]	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)	J
EVAP vapor lines									*	<u>MA-20</u> (QR25DE) <u>MA-27</u> (VQ35DE)	K
Fuel lines									*	<u>MA-16</u> (QR25DE) <u>MA-23</u> (VQ35DE)	L
Fuel filter	NOTE (3)									—	M
Engine coolant	NOTE (4)								R*	<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)	Ν
Engine oil		R	R	R	R	R	R	R	R	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)	0
Engine oil filter [Use Genuine NISSAN engine oil filter or equivalent.]		R	R	R	R	R	R	R	R	<u>MA-18</u> (QR25DE) <u>MA-25</u> (VQ35DE)	MA

#### < ON-VEHICLE MAINTENANCE >

MAINTENANCE OPERATION			MAINTENANCE INTERVAL								
Perform at number of miles, kilometers or months, which- ever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Section - Page or - Content Title	
Spark plugs (Iridium-tipped type)			Repla	ace every	/ 105,00	0 miles (	169,000	km).		<u>MA-19</u> (QR25DE) <u>MA-26</u> (VQ35DE)	
Intake & exhaust valve clear- ance*	NOTE (5)									EM-99, <u>"Standard</u> and Limit" (QR25DE) <u>EM-231,</u> <u>"Cylinder He</u> <u>ad"</u> (VQ35DE)	

#### 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 the maximum limit.

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

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

(4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.

(5) 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

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

MAINTENANCE OPERATIO	<b>N</b>			MAIN	ITENAN	CE INTEI	RVAL			Reference
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.50 (12) 6	11.25 (18) 9	15 (24) 12	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	Section - Page or - Con- tent Title
Brake lines & cables					Ι				I	<u>MA-35</u>
Brake pads & rotors			I		I		I		I	<u>MA-36,</u> <u>MA-37</u> <u>MA-37,</u> <u>MA-38</u>
CVT fluid	NOTE (1)				I				I	<u>MA-29</u> (RE0F09B) <u>MA-31</u> (RE0F10B)
Manual transaxle oil	NOTE (2)				-				I	<u>TM-17</u>
Steering gear and linkage, axle & suspension parts					Ι					<u>MA-38</u>
Tire rotation	NOTE (3)									<u>MA-34</u>
Exhaust system			I		I		I		Ι	<u>MA-29</u>
Front drive shaft boot			I		Ι		I		Ι	<u>MA-40</u>
In-cabin microfilter					R				R	<u>MA-29</u>

#### < ON-VEHICLE MAINTENANCE >

MAINTENANCE OPERATIO	N			MAIN	ITENAN	CE INTER	RVAL			Reference
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Section - Page or - Content Title
Brake lines & cables					Ι				I	<u>MA-35</u>
Brake pads & rotors			I		I		I		I	<u>MA-36,</u> <u>MA-37</u> <u>MA-37,</u> <u>MA-38</u>
CVT fluid	NOTE (1)				I				I	<u>MA-29</u> (RE0F09B) <u>MA-31</u> (RE0F10B)
Manual transaxle oil	NOTE (2)				I				Ι	<u>TM-17</u>
Tire rotation	NOTE (3)	P								<u>MA-38</u>
Exhaust system			Ι		I		Ι		Ι	<u>MA-34</u>
Front drive shaft boot			I		I		Ι		Ι	<u>MA-29</u>
In-cabin microfilter					R				R	<u>MA-29</u>

#### NOTE:

(1) If towing a trailer, or using a car-top carrier, or driving on rough or muddy roads, inspect CVT fluid deterioration with Consult-III every 60,000 miles (96,000 km), then change the CVT fluid NS-2 if necessary. (Refer to <u>TM-241</u>, <u>"Changing"</u> RE0F09B or <u>TM-417</u>, <u>"Changing CVT Fluid"</u> RE0F10B.) Using transmission fluid other than Genuine NISSAN CVT Fluid NS-2 will damage the CVT, which is not covered by the NISSAN new vehicle limited warranty.

(2) If towing a trailer, or using a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months.

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

#### Schedule 2

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#### EMISSION CONTROL SYSTEM

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

MAINTENANCE OPERATION				MAIN	TENAN	CE INTE	RVAL			Reference Sec-	K
Perform at number of miles, ki- lometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	7.5 (12) 6	15 (24) 12	22.5 (36) 18	30 (48) 24	37.5 (60) 30	45 (72) 36	52.5 (84) 42	60 (96) 48	tion - Page or - Content Title	L
Drive belts	NOTE (1)								*	<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)	M
Air cleaner filter					[R]				[R]	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)	Ν
EVAP vapor lines					*				*	<u>MA-20</u> (QR25DE) <u>MA-27</u> (VQ35DE)	0
Fuel lines					*				*	<u>MA-16</u> (QR25DE) <u>MA-23</u> (VQ35DE)	MA
Fuel filter	NOTE (2)									_	
Engine coolant	NOTE (3)								R*	<u>MA-14</u> (QR25DE) <u>MA-21</u> (VQ35DE)	

#### < ON-VEHICLE MAINTENANCE >

MAINTENANCE OPERATION				MAIN	TENAN	CE INTE	RVAL			Reference Sec-
Perform at number of miles, ki- lometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	7.5 (12) 6	15 (24) 12	22.5 (36) 18	30 (48) 24	37.5 (60) 30	45 (72) 36	52.5 (84) 42	60 (96) 48	tion - Page or - Content Title
Engine oil		R	R	R	R	R	R	R	R	<u>MA-17</u> (QR25DE) <u>MA-24</u> (VQ35DE)
Engine oil filter [Use Genuine NISSAN engine oil filter or equivalent.]		R	R	R	R	R	R	R	R	<u>MA-18</u> (QR25DE) <u>MA-</u> <u>25</u> (VQ35DE)
Spark plugs (Iridium-tipped type)		Replace every 105,000 miles (169,000 km).					<u>MA-19</u> (QR25DE) <u>MA-</u> <u>26</u> (VQ35DE)			
Intake & exhaust valve clear- ance*	NOTE (4)									EM-99. "Stan- dard and Limit" (QR25DE) EM- 231. "Cylinder Head" (VQ35DE)

#### 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 the maximum limit.

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

(3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.

(4) 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 OPERATION				MAIN	TENAN	CE INTI	ERVAL			Reference Sec-
Perform at number of miles, kilo- meters or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	7.5 (12) 6	15 (24) 12	22.5 (36) 18	30 (48) 24	37.5 (60) 30	45 (72) 36	52.5 (84) 42	60 (96) 48	tion - Page or - Content Title
Brake lines and cables			Ι		Ι		Ι		Ι	<u>MA-35</u>
Brake pads & rotors			Ι		Ι		Ι		I	<u>MA-36,</u> <u>MA-37</u> <u>MA-37,</u> MA-38
CVT fluid	NOTE (1)		Ι		Ι		Ι		I	<u>MA-29</u> (RE0F09B) <u>MA-</u> <u>31</u> (RE0F10B)
Steering gear and linkage, axle & suspension parts			I		I		Ι		I	<u>MA-38</u>
Manual transaxle oil			Ι		Ι		Ι		Ι	<u>TM-17</u>
Tire rotation	NOTE (2)									<u>MA-34</u>
Exhaust system					Ι				Ι	<u>MA-29</u>
Front drive shaft boot			Ι		Ι		Ι		Ι	<u>MA-40</u>
In-cabin microfilter			R		R		R		R	<u>MA-29</u>
NOTE										

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

NOTE:

#### < ON-VEHICLE MAINTENANCE >

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

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

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#### **RECOMMENDED FLUIDS AND LUBRICANTS**

#### < ON-VEHICLE MAINTENANCE >

## RECOMMENDED FLUIDS AND LUBRICANTS

#### Fluids and Lubricants

INFOID:000000004202044

Description			Ca	apacity (Approxima	ate)	Decommended Eluide (Lubricente		
·			US measure	Imp measure	Liter	Recommended Fluids/Lubricants		
Fuel		QR25DE	20 gal	16-5/8 gal	75.6	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91)		
ruei		VQ35DE	20 gal	16-5/8 gal	75.6	Unleaded gasoline with an octane rating of at least 91 AKI (RON 96)		
		QR25DE	4-7/8 qt	4 qt	4.6			
	With oil filter	VQ35DE USA	4-7/8 qt	4 qt	4.6			
Engine oil Drain and	change	VQ35DE Mexico	5-1/8 qt	4 1/4 qt	4.8			
refill		QR25DE	4-1/2 qt	3-3/4 qt	4.3	Engine oil with API Certification Mark     *1		
	Without oil filter	VQ35DE USA	4-1/2 qt	3-3/4 qt	4.3	Viscosity SAE 5W-30		
	change	VQ35DE Mexico	4-34/ qt	4 qt	4.5			
Dry engine	(Overhaul)	QR25DE	5-3/4 qt	4-3/4 qt	5.4			
USA and M		VQ35DE	5-1/4 qt	4-3/8 qt	5.0			
Cooling sys	ooling system QR25DE		8 qt	6-3/4 qt	7.6	Genuine NISSAN Long Life Antifreeze/		
with reserve		VQ35DE	8-5/8 qt	7-1/4 qt	8.2	Coolant or equivalent		
CVT fluid		RE0F09B	10-6/8 qt	9 qt	10.2	Genuine NISSAN CVT Fluid NS-2 *2		
		RE0F10A	8-3/4 qt	7-1/4	8.3			
Manual tran	saxle fluid (I	MTF)	3-5/8 pt	3 pt	1.7	Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 or API GL- 4, Viscosity SAE 75W-85		
Power steer	ring fluid (PS	SF)	1-1/8 qt	7/8 qt	1.0	Genuine NISSAN PSF or equivalent*3		
Brake and c	clutch fluids		_	_	_	Genuine NISSAN Super Heavy Duty Brake Fluid*4 or equivalent DOT 3 (US FMVSS No. 116)		
Brake greas	se		_			PBC (poly butyl cuprysil)		
Brake pad p	late grease			_		Molykote AS880N grease or equivalent		
Multi-purpos	se grease			—	_	NLGI No. 2 (Lithium soap base)		
Air condition	ning system	refrigerant	$1.10\pm0.055~\text{lb}$	$0.50\pm0.025~\text{kg}$	$0.50\pm0.025~\text{kg}$	HFC-134a (R-134a) *3		
Air conditioning system oil		oil	5.03 fl oz	5.3 fl oz	150 mℓ	NISSAN A/C System Oil Type S or equiv- alent *3		
Windshield washer fluid		_	—	_	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent			

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

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

\*3: DEXRON<sup>TM</sup> VI type ATF or Canada NISSAN Automatic Transmission Fluid may also be used.

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

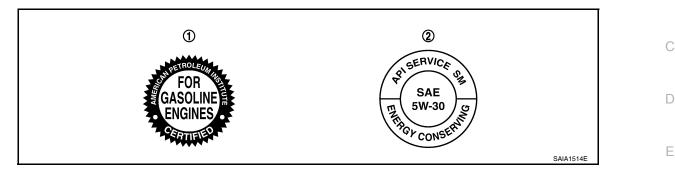
\*5: For further details, see "Air conditioning specification label".

#### **Engine Oil Recommendation**

#### **RECOMMENDED FLUIDS AND LUBRICANTS**

#### < ON-VEHICLE MAINTENANCE >

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.



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, long life, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors. Therefore, additional cooling system additives are not necessary.

For outside tempe	eratures down to:	Anti-freeze coolant mixture ratio					
° C	°F	Genuine NISSAN Long Life Antifreeze coolant	Demineralized water or distilled water				
– 35°	- 30°	50 %	50 %				

**CAUTION:** 

- When adding or replacing coolant, be sure to use only Genuine NISSAN Long Life Anti-freeze coolant or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralized water or distilled water.
- Other types of coolant solutions may damage your cooling system.

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< ON-VEHICLE MAINTENANCE >

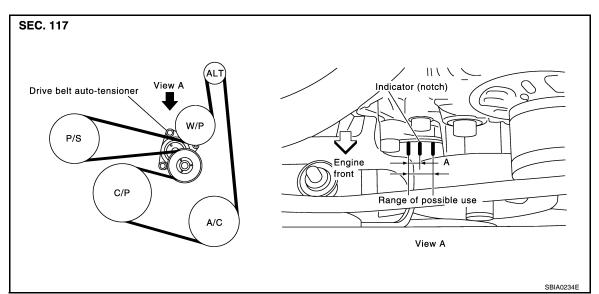
## ENGINE MAINTENANCE (QR25DE) DRIVE BELTS

#### **DRIVE BELTS : Checking Drive Belts**

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#### WARNING:

#### Inspect the drive belt only when the engine is stopped.

#### NOTE:

On vehicles not equipped with A/C, there is an idler pulley in the position for the drive belt routing.

• Make sure that the stamp mark of drive belt auto-tensioner is within the usable range. **NOTE:** 

- Check the drive belt auto-tensioner indicator (notch) when the engine is cold.
- When the new drive belt is installed, the range should be "A" as shown.
- Visually check entire belt for wear, damage or cracks.
- If the indicator is out of allowable use range or belt is damaged, replace the belt.

#### **DRIVE BELTS : Tension Adjustment**

Belt tension is not manually adjustable, it is automatically adjusted by the drive belt auto-tensioner.
 ENGINE COOLANT

#### **ENGINE COOLANT : Changing Engine Coolant**

#### WARNING:

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

#### DRAINING ENGINE COOLANT

- 1. Remove the engine undercover using power tool.
- Open the radiator drain plug at the bottom of the radiator, and remove the radiator filler cap. This is the only step required when partially draining the cooling system (radiator only).
   CAUTION:
   Do not to allow the coolant to contact the drive helts.

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

- 3. Follow this step for heater core removal/replacement only. Disconnect the upper heater hose at the engine side and apply moderate air pressure [103.46 kPa (15 psi, 1.055 kg/cm<sup>2</sup>) maximum air pressure] into the hose for 30 seconds to blow the excess coolant out of the heater core.
- 4. When draining all of the coolant in the system, remove the reservoir tank and drain the coolant, then clean the reservoir tank before installation.

#### < ON-VEHICLE MAINTENANCE >

5. When draining all of the coolant in the system for engine removal or repair, open the drain plug on the cylinder block.

 Check the drained coolant for contaminants such as rust, corrosion or discoloration. If the coolant is contaminated, flush the engine cooling system. Refer to "FLUSHING COOLING SYS-TEM".

#### REFILLING ENGINE COOLANT

Pediator drain plug

- 1. Install the radiator drain plug. Install the reservoir tank and cylinder block drain plug, if removed for a total system drain or for engine removal or repair.
  - The radiator must be completely empty of coolant and water.
  - Apply sealant to the threads of the cylinder block drain plugs. Use Genuine High Performance Thread Sealant or equivalent. Refer to <u>GI-15, "Recommended Chemical Products and Sealants"</u>.

Defer to CO 45 "Demovel and Installation"

Radiator drain plug	. Refer to <u>CO-15, Removal and installation</u> .
Cylinder block drain plug	: Refer to EM-76. "Disassembly and Assembly".

- 2. If disconnected, reattach the upper radiator hose at the engine side.
- 3. Set the vehicle heater controls to the full HOT and heater ON position. Turn the vehicle ignition ON with the engine OFF as necessary to activate the heater mode.
- 4. Install the Tool by installing the radiator cap adapter onto the radiator neck opening. Then attach the gauge body assembly with the refill tube and the venturi assembly to the radiator cap adapter.

#### Tool number : KV991J0070 (J-45695)

- 5. Insert the refill hose into the coolant mixture container that is placed at floor level. Make sure the ball valve is in the closed position.
  - Use Genuine NISSAN Long Life Anti-freeze coolant or equivalent, mixed 50/50 with distilled water or demineralized water.

Refer to MA-12, "Engine Oil Recommendation".

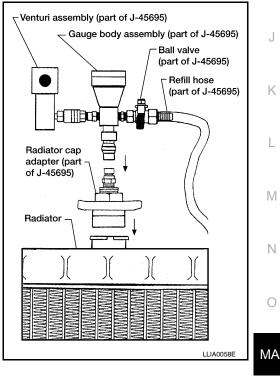
```
Engine coolant capacity (with reservoir tank)
```

: Refer to <u>MA-12, "Fluids</u> and Lubricants".

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

Compressed air supply pressure

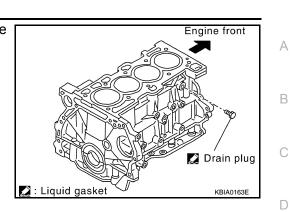
ir : 5.7 - 8.5 kPa (5.6 - 8.4 kg/cm<sup>2</sup> , <sup>re</sup> 80 - 120 psi)



#### CAUTION:

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

7. The vacuum gauge will begin to rise and there will be an audible hissing noise. During this process open the ball valve on the refill hose slightly. Coolant will be visible rising in the refill hose. Once the refill hose is full of coolant, close the ball valve. This will purge any air trapped in the refill hose.



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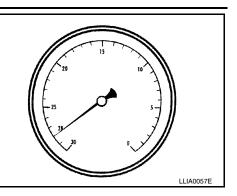
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#### < ON-VEHICLE MAINTENANCE >

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

Altitude above sea level	Vacuum gauge reading
0 - 100 m (328 ft)	: 28 inches of vacuum
300 m (984 ft)	: 27 inches of vacuum
500 m (1,641 ft)	: 26 inches of vacuum
1,000 m (3,281 ft)	: 24 - 25 inches of vacuum



- 9. When the vacuum gauge has reached the specified amount, disconnect the air hose and wait 20 seconds to see if the system loses any vacuum. If the vacuum level drops, perform any necessary repairs to the system and repeat steps 6 8 to bring the vacuum to the specified amount. Recheck for any leaks.
- 10. Place the coolant container (with the refill hose inserted) at the same level as the top of the radiator. Then open the ball valve on the refill hose so the coolant will be drawn up to fill the cooling system. The cooling system is full when the vacuum gauge reads zero.
  CAUTION:

## Do not allow the coolant container to get too low when filling, to avoid air from being drawn into the cooling system.

- 11. Remove the Tool from the radiator neck opening.
- 12. Fill the cooling system reservoir tank to the specified level and install the radiator cap. Run the engine to warm up the cooling system and top up the system as necessary.

#### FLUSHING COOLING SYSTEM

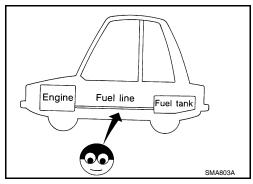
- 1. Fill the radiator from the filler cap above the radiator upper hose and reservoir tank, with water and reinstall the filler cap above the radiator upper hose.
- 2. Run the engine until it reaches normal operating temperature.
- 3. Press the engine accelerator two or three times under no-load.
- 4. Stop the engine and wait until it cools down.
- 5. Drain the water.
- 6. Repeat steps 1 through 5 until clear water begins to drain from the radiator.

#### **FUEL LINES**

#### **FUEL LINES : Inspection**

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

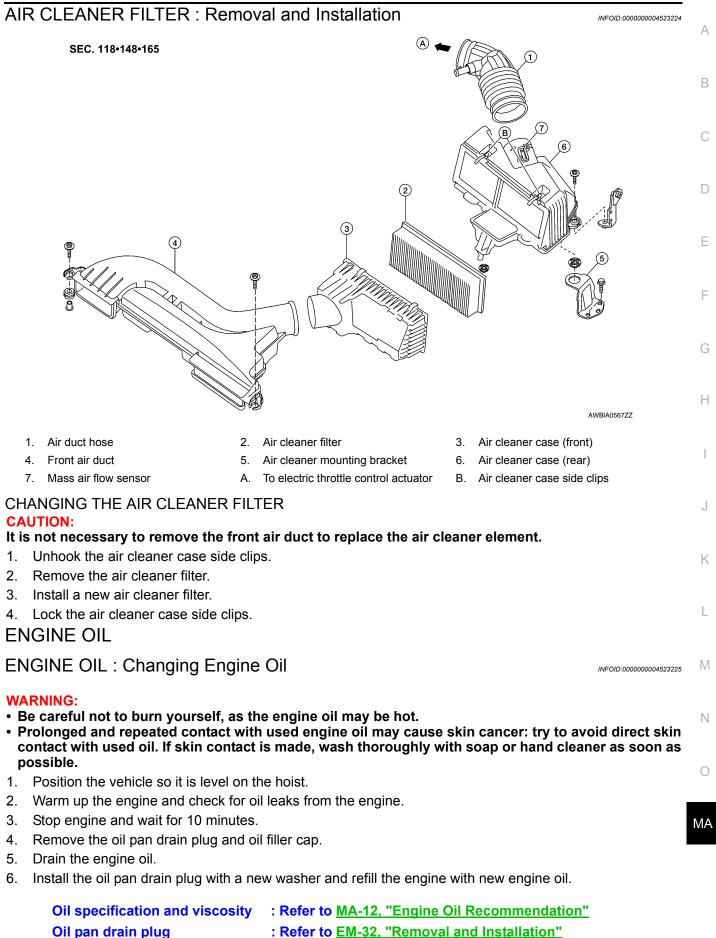
If necessary, repair or replace damaged parts.



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AIR CLEANER FILTER

#### < ON-VEHICLE MAINTENANCE >



#### MA-17

#### < ON-VEHICLE MAINTENANCE >

#### **CAUTION:**

- Be sure to clean the oil pan drain plug and install using a new washer.
- The refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.
- 7. Warm up the engine and check around the drain plug and oil filter for oil leaks.
- 8. Stop the engine and wait for 10 minutes.
- 9. Check the oil level using the dipstick. CAUTION:

Do not overfill the engine oil.

**OIL FILTER** 

#### **OIL FILTER : Removal and Installation**

#### REMOVAL

1. Remove the oil filter using Tool.

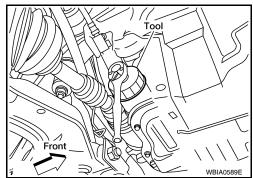
Tool number : KV10115801 (J-38956)

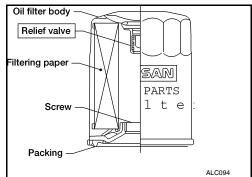
#### WARNING:

• Be careful not to get burned, the engine and engine oil may be hot.

#### **CAUTION:**

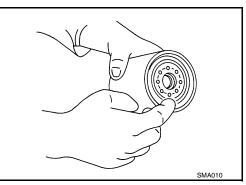
- When removing, prepare a shop cloth to absorb any oil leakage or spillage.
- Do not allow engine oil to adhere to the drive belts.
- Completely wipe off any oil that adheres to the engine and the vehicle.
- The oil filter has a built in pressure relief valve. Use a genuine NISSAN oil filter or equivalent





#### INSTALLATION

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

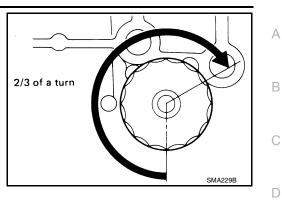




#### < ON-VEHICLE MAINTENANCE >

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

#### Oil filter : 18.0 N·m (1.8 kg-m, 13 ft-lb)



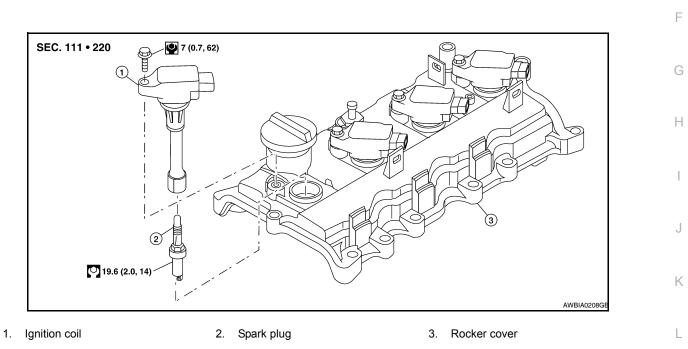
- 4. Check oil level and add engine oil as necessary. Refer to <u>LU-9</u>.
- 5. After warming up the engine, check for any engine oil leaks.

SPARK PLUG : Removal and Installation

#### SPARK PLUG

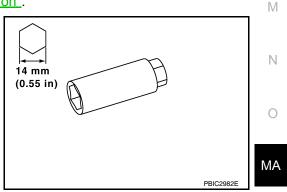
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#### REMOVAL

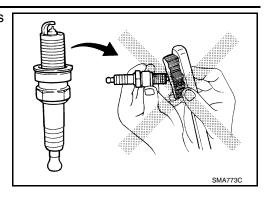
- 1. Remove the ignition coil. Refer to EM-35. "Removal and Installation".
- 2. Remove the spark plug with a suitable spark plug wrench.



INSPECTION AFTER REMOVAL

#### < ON-VEHICLE MAINTENANCE >

• Do not use a wire brush for cleaning the spark plugs. Replace as necessary.

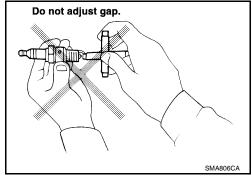


• If plug is covered with carbon, a spark plug cleaner may be used.

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. If the gap is out of specification, replace the spark plug.

Gap (nominal) : 1.1 mm (0.043 in)



#### INSTALLATION

Installation is in the reverse order of removal.

Temperature range	NGK
Standard type	DILKAR6A-11
Gap (nominal)	1.1 mm (0.043 in)

#### **EVAP VAPOR LINES**

#### **EVAP VAPOR LINES : Inspection**

- 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.

< ON-VEHICLE MAINTENANCE >

## ENGINE MAINTENANCE (VQ35DE) DRIVE BELTS

DRIVE BELTS : Checking Drive Belts

INFOID:000000004523228 (7) $(\mathbf{1})$ (8) 6 (4 (3) (5) AWBIA07072 Power steering pump 2. Drive belt auto-tensioner Crankshaft 3. Idler pulley 5. A/C compressor pulley Generator pulley 6. 8. Drive belt Idler pulley Α Indicator B. Possible use range (for new belt) C. Belt replacement WARNING: Inspect and check the drive belts with the engine off. Inspect belt for cracks, fraying, wear or oil adhesion. If necessary, replace with a new one.

- Rotate the crankshaft pulley two times then check the belt tension.
  - NOTE: Inspect drive belt tension when engine is cold.

#### DRIVE BELTS : Tension Adjustment

 Belt tension is not manually adjustable, it is automatically adjusted by the drive belt auto-tensioner. ENGINE COOLANT

#### ENGINE COOLANT : Changing Engine Coolant

#### WARNING:

1.

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1.

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

#### DRAINING ENGINE COOLANT

- Open radiator drain plug at the bottom of radiator and remove the radiator filler cap. This is the only step 1 required for a partial cooling system drain. MA
- 2. If removing the heater core, remove the upper heater hose from the engine coolant outlet and apply moderate air pressure of 15 psi (103.46 kPa, 1.055 kg-cm<sup>2</sup>) maximum for 30 seconds into the hose to blow out excess coolant from the core.
- 3. For a complete cooling system drain, remove the reservoir tank and drain the coolant, and then clean the reservoir tank before installation.
  - Do not allow coolant to spill on the drive belts.

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#### < ON-VEHICLE MAINTENANCE >

- 4. When performing a complete cooling system drain (to remove the engine or for engine repair), remove the cylinder block front drain plug and the cylinder block RH drain plug.
- 5. Check the drained coolant for contaminants such as rust, corrosion or discoloration.
  If contaminated, flush the engine cooling system. Refer to "FLUSHING COOLING SYSTEM".

#### **REFILLING ENGINE COOLANT**

- 1. Install the radiator drain plug. If the cooling system was drained completely, install the reservoir tank and the cylinder block drain plugs.
  - The radiator must be completely empty of coolant and water.
  - Apply sealant to the threads of the cylinder block drain plugs. Use Genuine High Performance Thread Sealant or equivalent. Refer to <u>GI-15</u>, "Recommended Chemical Products and Sealants".

Radiator drain plug	: Refer to CO-38, "Removal and Installation".
Cylinder block front drain plug	: Refer to EM-206, "Disassembly and Assembly".
Cylinder block RH drain plug	: Refer to EM-206, "Disassembly and Assembly".

- 2. If disconnected, reattach the upper radiator hose at the engine side.
- 3. Set the vehicle heater controls to the full HOT and heater ON position. Turn the vehicle ignition ON with the engine OFF as necessary to activate the heater mode.
- 4. Install the Tool by installing the radiator cap adapter onto the radiator neck opening. Then attach the gauge body assembly with the refill tube and the venturi assembly to the radiator cap adapter.

#### Tool number : KV991J0070 (J-45695)

- 5. Insert the refill hose into the coolant mixture container that is placed at floor level. Make sure the ball valve is in the closed position.
  - Use Genuine NISSAN Long Life Anti-freeze coolant or equivalent, mixed 50/50 with distilled water or demineralized water. Refer to <u>MA-12</u>, "Engine Oil Recommendation".

```
Engine coolant capacity (with reservoir tank)
```

: Refer to <u>MA-12, "Fluids</u> and Lubricants".

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

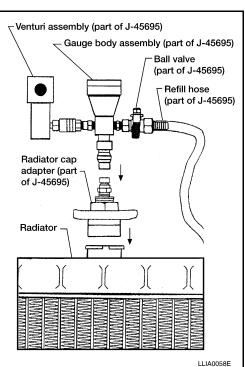
Compressed air supply pressure

ir : 5.7 - 8.5 kPa (5.6 - 8.4 kg/cm<sup>2</sup> , <sup>re</sup> 80 - 120 psi)

#### **CAUTION:**

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

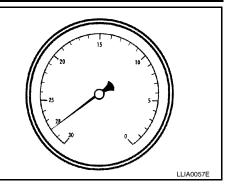
7. The vacuum gauge will begin to rise and there will be an audible hissing noise. During this process open the ball valve on the refill hose slightly. Coolant will be visible rising in the refill hose. Once the refill hose is full of coolant, close the ball valve. This will purge any air trapped in the refill hose.



#### < ON-VEHICLE MAINTENANCE >

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

Altitude above sea level	Vacuum gauge reading
0 - 100 m (328 ft)	: 28 inches of vacuum
300 m (984 ft)	: 27 inches of vacuum
500 m (1,641 ft)	: 26 inches of vacuum
1,000 m (3,281 ft)	: 24 - 25 inches of vacuum



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- 9. When the vacuum gauge has reached the specified amount, disconnect the air hose and wait 20 seconds to see if the system loses any vacuum. If the vacuum level drops, perform any necessary repairs to the system and repeat steps 6 8 to bring the vacuum to the specified amount. Recheck for any leaks.
- 10. Place the coolant container (with the refill hose inserted) at the same level as the top of the radiator. Then open the ball valve on the refill hose so the coolant will be drawn up to fill the cooling system. The cooling system is full when the vacuum gauge reads zero.
  CAUTION:

Do not allow the coolant container to get too low when filling, to avoid air from being drawn into the cooling system.

- 11. Remove the Tool from the radiator neck opening.
- 12. Fill the cooling system reservoir tank to the specified level and install the radiator cap. Run the engine to warm up the cooling system and top up the system as necessary.

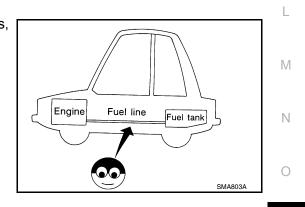
#### FLUSHING COOLING SYSTEM

- 1. Fill the radiator from the filler neck above the radiator upper hose and reservoir tank with clean water and reinstall radiator filler cap.
- 2. Run the engine and warm it up to normal operating temperature.
- 3. Rev the engine two or three times under no-load.
- 4. Stop the engine and wait until it cools down.
- 5. Drain the water from the system. Refer to "DRAINING ENGINE COOLANT".
- 6. Repeat steps 1 through 5 until clear water begins to drain from the radiator.

#### FUEL LINES

#### **FUEL LINES : Inspection**

Inspect fuel lines, filler cap and tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration. If necessary, repair or replace damaged parts.

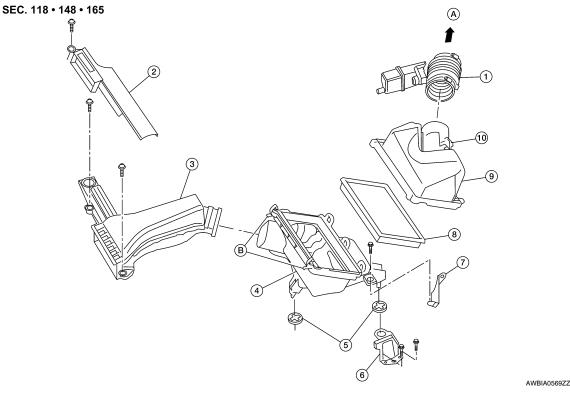


AIR CLEANER FILTER

#### < ON-VEHICLE MAINTENANCE >

#### AIR CLEANER FILTER : Removal and Installation

#### INFOID:000000004523229



1. Air duct hose

- 2. Duct sub-cover
- 4. Air cleaner case (lower)
- 5. Grommets
- Bracket
   Mass air flow sensor
- 8. Air cleaner filterA. To electric throttle control actuator
- 6. Air cleaner case mounting bracket

Front air duct

3.

- 9. Air cleaner case (upper)
- B. Air cleaner case side clips

## CHANGING THE AIR CLEANER FILTER CAUTION:

#### It is not necessary to remove the front air duct to replace the ail cleaner filter.

- 1. Unhook the air cleaner case side clips.
- 2. Remove the air cleaner filter.
- 3. Install a new air cleaner filter.
- 4. Lock the air cleaner case side clips.

#### ENGINE OIL

#### ENGINE OIL : Changing Engine Oil

#### WARNING:

- Be careful not to burn yourself, as the 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 oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. Position the vehicle so it is level on the hoist.
- 2. Warm up the engine and check for oil leaks from the engine.
- 3. Stop engine and wait for 10 minutes.
- 4. Remove the oil pan drain plug and oil filler cap.
- 5. Drain the engine oil.
- 6. Install the oil pan drain plug with a new washer and refill the engine with new engine oil.

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#### MA-24

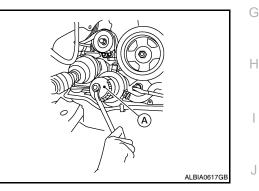
#### < ON-VEHICLE MAINTENANCE >

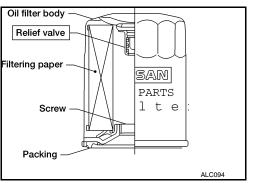
	Oil specification and viscosity Oil pan drain plug	: Refer to <u>MA-12, "Engine O</u> : Refer to <u>EM-139, "Remova</u>		А
		he oil temperature and drair	washer. I time. Use these specifications for the proper amount of oil is in the	B
7.	Warm up the engine and check arour	nd the oil pan drain plug and oi	l filter for oil leaks.	0
8.	Stop engine and wait for 10 minutes.			
9.	Check the engine oil level using the c CAUTION: Do not overfill the engine oil.	lipstick.		D
OI	L FILTER			Е
OI	L FILTER : Removal and Insta	Illation	INFOID:000000004523231	_
RE	MOVAL			F
1. 2.	Remove the engine undercover. Remove the oil filter using Tool (A) as	s shown.		G

#### Tool number : KV10115801 (J-38956)

#### WARNING:

- Be careful not to get burned, the engine and engine oil may be hot.
- CAUTION:
- When removing, prepare a shop cloth to absorb any oil leakage or spillage.
- Do not allow engine oil to adhere to the drive belts.
- Completely wipe off any oil that adheres to the engine and the vehicle.
- The oil filter has a built in pressure relief valve. Use a genuine NISSAN oil filter or equivalent





#### INSTALLATION

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

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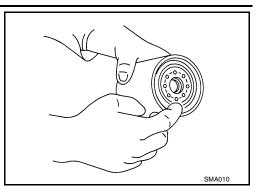
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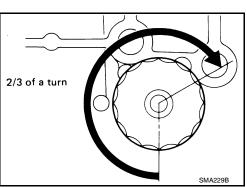
#### < ON-VEHICLE MAINTENANCE >

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



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

> **Oil filter** : 18.0 N·m (1.8 kg-m, 13 ft-lb)

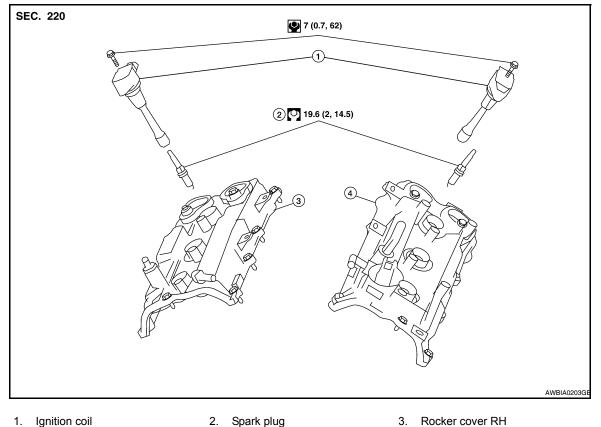


- 4. Check the oil level and add engine oil as necessary. Refer to <u>LU-23</u>.
- 5. After warming up the engine, check for any engine oil leaks.

#### SPARK PLUG

SPARK PLUG : Removal and Installation

INFOID:000000004523232



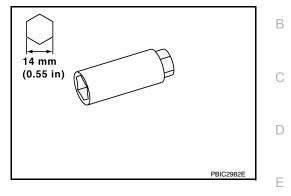
4. Rocker cover LH

#### **MA-26**

#### < ON-VEHICLE MAINTENANCE >

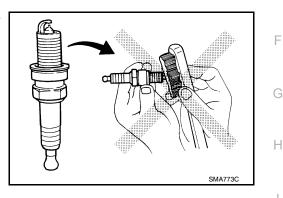
#### REMOVAL

- 1. Remove the ignition coil. Refer to <u>EM-145</u>, "<u>Removal and Installation LH</u>" and <u>EM-145</u>, "<u>Removal and A Installation RH</u>".
- 2. Remove the spark plug with a suitable spark plug wrench.



#### INSPECTION AFTER REMOVAL

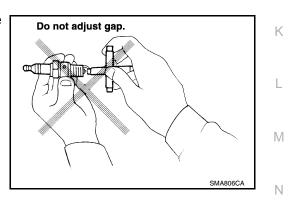
 Do not use a wire brush for cleaning the spark plugs. Replace as necessary.



• If plug is covered with carbon, a 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. If the gap is out of specification, replace the spark plug.



#### **INSTALLATION**

Installation is in the reverse order of removal.

Gap (nominal)	1.1 mm (0.043 in)	
Standard type	FXE22HR11	
Temperature range	DENSO	

#### EVAP VAPOR LINES

#### EVAP VAPOR LINES : Inspection

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

#### MA-27

#### < ON-VEHICLE MAINTENANCE >

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

## **CHASSIS AND BODY MAINTENANCE** < ON-VEHICLE MAINTENANCE > CHASSIS AND BODY MAINTENANCE **IN-CABIN MICROFILTER IN-CABIN MICROFILTER : Removal and Installation** INFOID:000000004202064 REMOVAL Remove the glove box assembly. Refer to <u>IP-12, "Removal and Installation"</u>. 2. Disengage the filter cover tab (1) to remove the filter cover. 3. Remove the in-cabin microfilter from the blower unit by using the pull tab on the bottom of the filter. T ALIIA0016ZZ INSTALLATION Installation is in the reverse order of removal. EXHAUST SYSTEM **EXHAUST SYSTEM : Inspection** INFOID:000000004202065

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

## CVT FLUID

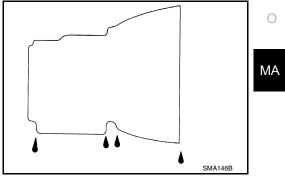
#### CVT FLUID : RE0F09B

#### **CVT FLUID** : Inspection

#### CHECKING CVT FLUID

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

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



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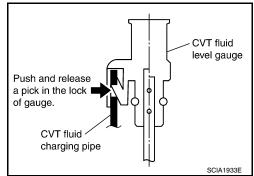
#### < ON-VEHICLE MAINTENANCE >

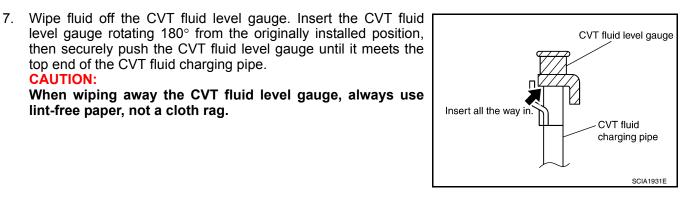
top end of the CVT fluid charging pipe.

lint-free paper, not a cloth rag.

**CAUTION:** 

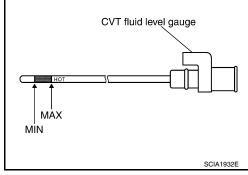
6. Pull out the CVT fluid level gauge from the CVT fluid charging pipe after pressing the tab on the CVT fluid level gauge to release the lock.





8. Place the selector lever in "P" or "N" and make sure the fluid level is within the specified range. **CAUTION:** 

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



#### **CVT FLUID CONDITION**

Check CVT fluid condition.

- If CVT fluid is very dark or smells burned, check operation of CVT. Flush cooling system after repair of CVT.
- If CVT fluid contains frictional material (clutches, brakes, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of CVT. Refer to CO-38, "Removal and Installation" and TM-242, "Cleaning".

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



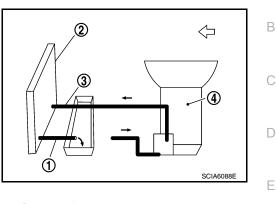
#### < ON-VEHICLE MAINTENANCE >

#### CVT FLUID : Changing

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- 1. Warm up CVT fluid by driving the vehicle for 10 minutes.
- < : Vehicle front
- Radiator (2)
- CVT fluid cooler hose (inlet side) (3)
- Transaxle assembly (4)
- 2. Drain CVT fluid from CVT fluid cooler hose (outlet side) (1) and refill with new CVT fluid at CVT fluid charging pipe with the engine running at idle speed.
- 3. Refill until new CVT fluid comes out from CVT fluid cooler hose (outlet side) (1).

About 30 to 50% extra fluid will be required for this procedure.



#### CVT fluid:

#### Refer to TM-261, "General Specification".

Fluid capacity:

#### Refer to TM-261, "General Specification".

#### **CAUTION:**

- Use only Genuine NISSAN CVT Fluid NS-2. Do not mix with other fluid.
- Using CVT fluid other than Genuine NISSAN CVT Fluid NS-2 will deteriorate in driveability and CVT durability, and may damage the CVT, which is not covered by the warranty.
- When filling CVT fluid, take care not to scatter heat generating parts such as exhaust.
- Delete CVT fluid deterioration date with CONSULT-III after changing CVT fluid. Refer to <u>TM-119</u>, H <u>"CONSULT-III Function (TRANSMISSION)"</u>.
- 4. Check fluid level and condition. Refer to <u>TM-240, "Inspection"</u>.

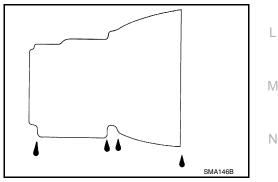
#### CVT FLUID : RE0F10A

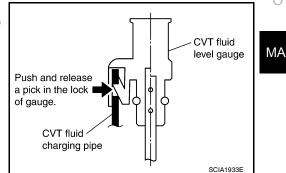
#### **CVT FLUID : Inspection**

#### CHECKING CVT FLUID

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

- 1. Check for fluid leakage.
- With the engine warmed up, drive the vehicle in an urban area. When ambient temperature is 20°C (68°F), it takes about 10 minutes for the CVT fluid to warm up to 50 to 80°C (122 to 176°F).
- 3. Park the vehicle on a level surface.
- 4. Apply parking brake firmly.
- 5. With engine at idle, while depressing brake pedal, move shift selector throughout the entire shift range.





6. Pull out the CVT fluid level gauge from the CVT fluid charging pipe after pressing the tab on the CVT fluid level gauge to release the lock.

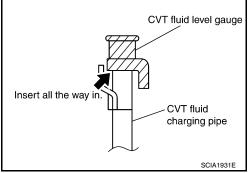
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#### < ON-VEHICLE MAINTENANCE >

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

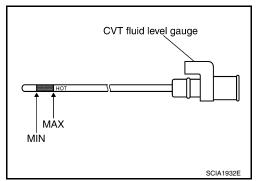
When wiping away the CVT fluid level gauge, always use lint-free paper, not a cloth rag.



8. Place the selector lever in "P" or "N" and make sure the fluid level is within the specified range.

CAUTION:

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

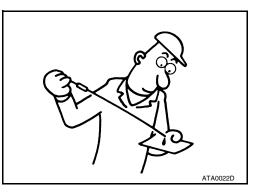


#### CVT FLUID CONDITION

Check CVT fluid condition.

- If CVT fluid is very dark or smells burned, check operation of CVT. Flush cooling system after repair of CVT.
- If CVT fluid contains frictional material (clutches, brakes, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of CVT. Refer to <u>CO-15</u>, "<u>Removal and</u> <u>Installation</u>" and <u>TM-418</u>, "<u>Cleaning</u>".

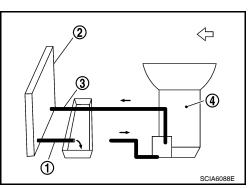
Fluid status	Conceivable cause	Required operation
Varnished (viscous varnish state)	CVT fluid become degraded due to high temperatures.	Replace the CVT fluid and check the CVT main unit and the vehicle for malfunctions (wire harnesses, cooler pipes, etc.)
Milky white or cloudy	Water in the fluid	Replace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



## CVT FLUID : Changing CVT Fluid

- 1. Warm up CVT fluid by driving the vehicle for 10 minutes.
- < : Vehicle front
- Radiator (2)
- CVT fluid cooler hose [inlet side (3)]
- Transaxle assembly (4)
- 2. Drain CVT fluid from CVT fluid cooler hose [outlet side (1)] and refill with new specified NISSAN CVT fluid in the CVT fluid charging pipe with the engine running at idle speed.
- Refill until new CVT fluid comes out from CVT fluid cooler hose [outlet side (1)].
   NOTE:

About 30 to 50% extra fluid will be required for this procedure.



#### < ON-VEHICLE MAINTENANCE >

- Check fluid level and condition. Refer to TM-416, "Inspection". 4
  - CVT fluid : Refer to TM-451, "General Specification"
  - Fluid capacity
- : Refer to TM-451, "General Specification"

#### **CAUTION:**

- Use only Genuine NISSAN CVT Fluid NS-2. Never mix with other fluid.
- Using CVT fluid other than Genuine NISSAN CVT Fluid NS-2 will deteriorate in driveability and CVT durability, and may damage the CVT, which is not covered by the warranty.
- When filling CVT fluid, take care not to scatter heat generating parts such as exhaust.
- Sufficiently shake the container of CVT fluid before using.
- Delete CVT fluid deterioration date with CONSULT-III after changing CVT fluid. Refer to TM-34, D "CONSULT-III Function (TRANSMISSION)".

#### M/T OIL

#### M/T OIL : Draining

- Start engine and let it run to warm up transaxle oil.
- Stop engine and remove the drain plug to drain the oil.
- 3. Install the drain plug with a new gasket to the transaxle case. Tighten the drain plug to the specified torque. Refer to TM-79, "Exploded View". CAUTION:

#### Do not reuse gasket.

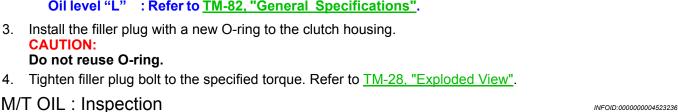
#### M/T OIL : Refilling

Remove the filler plug (1) and fill transaxle with new oil. 1.

#### : Refer to MA-12, "Fluids and Lubricants". Oil grade

- After refilling oil, measure oil level to check if it is within the specification using suitable gauge (A) as shown. CAUTION:
  - Do not start engine while checking oil level.
  - Insert the suitable gauge straight and against the wall of the filler plug hole, then measure the gauge from the top of the filler plug hole to the oil level as shown.

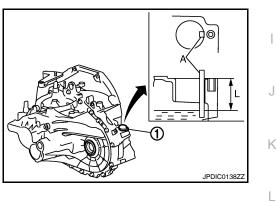
#### Oil level "L" : Refer to TM-82, "General Specifications".



#### LEAKAGE

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

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#### < ON-VEHICLE MAINTENANCE >

- 1. Remove the filler plug (1).
- Measure oil level to check if it is within the specification using a suitable gauge (A) as shown.
   CAUTION:

#### • Do not start engine while checking oil level.

 Insert the suitable gauge straight and against the wall of the filler plug hole, then measure the gauge from the top of the filler plug hole to the oil level as shown.

#### Oil level "L" : Refer to <u>TM-82.</u> <u>"General Specifications"</u>.

3. Install the filler plug with a new O-ring to the clutch housing.

#### Do not reuse O-ring.

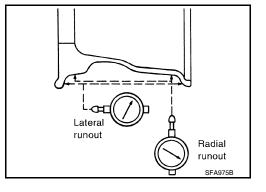
Tighten the filler plug bolt to the specified torque. Refer to <u>TM-28</u>, "Exploded View".
 WHEELS

#### WHEELS : Inspection

#### ALUMINUM WHEEL

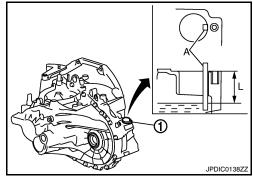
- 1. Check tires for wear and improper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- a. Remove tire from aluminum wheel and mount on a tire balance machine.
- b. Set dial indicator as shown in the figure.

#### Wheel runout (Dial indicator value): Refer to <u>WT-70</u>.



#### STEEL WHEEL

- 1. Check tires for wear and improper inflation.
- 2. Check wheels for deformation, cracks and other damage. If deformed, remove wheel and check wheel runout.
- a. Remove tire from steel wheel and mount on a tire balance machine.



#### < ON-VEHICLE MAINTENANCE >

- b. Set two dial indicators as shown in the figure.
- c. Set each dial indicator to 0.
- d. Rotate wheel and check dial indicators at several points around the circumference of the wheel.
- e. Calculate runout at each point as shown below.

#### Radial runout = (A+B)/2 Lateral runout = (C+D)/2

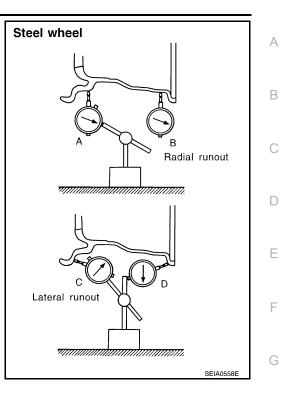
f. Select maximum positive runout value and the maximum negative value.

Add the two values to determine total runout.

In case a positive or negative value is not available, use the maximum value (negative or positive) for total runout.

If the total runout value exceeds the limit, replace steel wheel.

Wheel runout : Refer to <u>WT-70</u>.

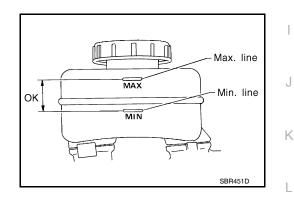


## BRAKE FLUID LEVEL AND LEAKS BRAKE FLUID LEVEL AND LEAKS : Inspection

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

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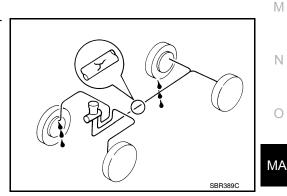
#### BRAKE LINES AND CABLES

BRAKE LINES AND CABLES : Inspection

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

BRAKE FLUID BRAKE FLUID : Draining

DRAINING CAUTION:



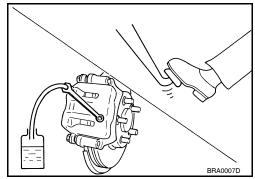
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#### MA-35

#### < ON-VEHICLE MAINTENANCE >

- Be careful not to splash brake fluid on painted areas; it may cause paint damage. If brake fluid is splashed on painted areas, wash it away with water immediately.
- Before working, disconnect connectors of ABS actuator and electric unit (control unit) or battery cable from the negative terminal.
- 1. Connect a vinyl tube to bleed valve.
- 2. Depress brake pedal, loosen bleed valve, and gradually remove brake fluid.



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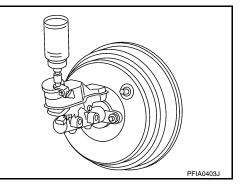
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#### **BRAKE FLUID : Refilling**

#### REFILLING

#### **CAUTION:**

- Refill with new brake fluid "DOT 3".
- Never reuse drained brake fluid.
- Before working, disconnect connectors of ABS actuator and electric unit (control unit) or battery cable from the negative terminal.
- 1. Make sure there is no foreign material in the reservoir tank, and refill with new brake fluid.
- 2. Loosen bleed valve, depress brake pedal slowly to full stroke and then release it. Repeat the procedure every 2 or 3 seconds until the new brake fluid comes out, then close the bleed valve while depressing the pedal. Repeat the same work for each wheel.
- 3. Bleed air. Refer to BR-16, "Bleeding Brake System".



#### DISC BRAKE

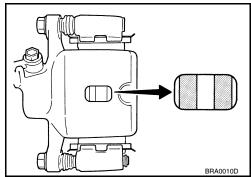
**DISC BRAKE : Front Brake Pad** 

DISC BRAKE : Inspection

#### PAD WEAR

Check pad thickness from an inspection hole on cylinder body. Check using a scale if necessary.

Standard thickness	: <mark>Refer</mark> to <u>BR-47, "Front Disc</u> <u>Brake"</u> .
Wear limit thickness	: Refer to <u>BR-47, "Front Disc</u> <u>Brake"</u> .



MA-36

#### < ON-VEHICLE MAINTENANCE >

#### **DISC BRAKE : Front Brake Rotor**

#### **DISC BRAKE : Inspection**

VISUAL

Check surface of disc rotor for uneven wear, cracks, and serious damage. Replace if necessary.

#### RUNOUT

- 1. Attach the disc rotor to wheel hub using wheel nuts at two or more positions.
- 2. Inspect runout using a dial gauge. Set the dial gauge to measure at 10 mm (0.39 in) inside the disc edge.

Maximum runout : Refer to BR-47, "Front Disc Brake". (with it attached to the vehicle)

#### NOTE:

Before measuring, make sure that wheel bearing axial end play is within the specification. Refer to FAX-6, "Inspection".

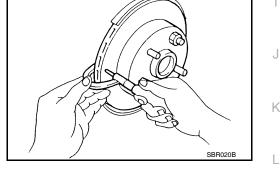
- 3. When runout exceeds limit value, displace mounting positions of disc rotor by one hole. And then find a position of the minimum value for runout.
- 4. If runout is outside the specified value after performing the above operation, turn the disc rotor using Tool.

#### Tool number : 38-PFM90.5

#### THICKNESS

Check thickness of the disc rotor using a micrometer. Replace disc rotor if thickness is under the wear limit.

Standard thickness	: <mark>Refer to <u>BR-47, "Front</u> <u>Disc Brake"</u>.</mark>
Wear limit thickness	: Refer to <u>BR-47, "Front</u> <u>Disc Brake"</u> .
Thickness variation (Measured at 8 positions)	: Refer to <u>BR-47, "Front</u> <u>Disc Brake"</u> .



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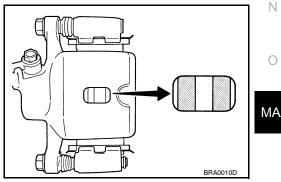
**DISC BRAKE : Rear Brake Pad** 

**DISC BRAKE : Inspection** 

#### PAD WEAR

Check pad thickness from an inspection hole on cylinder body. Check using a scale if necessary.

Standard thickness	: <mark>Refer to <u>BR-47, "Rear Disc</u> <u>Brake"</u>.</mark>
Wear limit thickness	: <mark>Refer t</mark> o <u>BR-47, "Rear Disc</u> <u>Brake"</u> .



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#### < ON-VEHICLE MAINTENANCE >

#### DISC BRAKE : Rear Brake Rotor

DISC BRAKE : Inspection

VISUAL

Check surface of disc rotor for uneven wear, cracks, and serious damage. Replace if necessary.

#### RUNOUT

- 1. Attach the disc rotor to wheel hub using wheel nuts at two or more positions.
- 2. Inspect runout using dial gauge. Set the dial gauge to measure at 10 mm (0.39 in) inside disc edge.

Maximum runout : Refer to <u>BR-47, "Rear Disc Brake"</u>. (with it attached to the vehicle)

#### NOTE:

Before measuring, make sure that wheel bearing axial end play is within the specification. Refer to <u>FAX-6</u>, "Inspection".

- When runout exceeds limit value, displace mounting positions of disc rotor by one hole. And then find a position of the minimum value for runout.
- 4. If runout is outside the specified value after performing the above operation, turn the disc rotor using Tool.

#### Tool number : 38-PFM90.5

#### THICKNESS

Check the thickness of the disc rotor using a micrometer. Replace disc rotor if the thickness is under the wear limit.

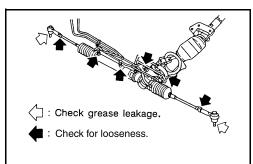
Standard thickness	: <mark>Refer to <u>BR-47, "Rear</u> <u>Disc Brake"</u>.</mark>
Wear limit thickness	: <mark>Refer to <u>BR-47, "Rear</u> <u>Disc Brake"</u>.</mark>
Thickness variation (measured at 8 positions)	: Refer to <u>BR-47, "Rear</u> <u>Disc Brake"</u> .

#### STEERING GEAR AND LINKAGE

STEERING GEAR AND LINKAGE : Inspection

#### STEERING GEAR

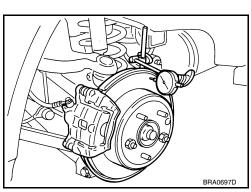
- Check gear housing and boots for looseness, damage and grease leakage.
- Check connection with steering column for looseness.



#### STEERING LINKAGE

Check ball joint, dust cover and other component parts for looseness, wear, damage and grease leakage. POWER STEERING FLUID AND LINES

#### MA-38



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#### < ON-VEHICLE MAINTENANCE >

#### **POWER STEERING FLUID AND LINES : Inspection**

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#### **FLUID LEVEL**

- Check fluid level with engine stopped.
- Make sure that fluid level is between MIN and MAX.
- Fluid levels at HOT (A) and COLD (B) are different. Do not confuse them.

HOT (A)	: Fluid temperature 50 - 80 °C (122 - 176°F)
COLD (B)	: Fluid temperature 0 - 30°C (32 - 86°F)

#### **CAUTION:**

- The fluid level should not exceed the MAX line. Excessive fluid will cause fluid leakage from the cap.
- · Do not reuse drained power steering fluid.
- Recommended fluid is Genuine Nissan PSF or equivalent.

#### FLUID LEAKAGE

Check hydraulic connections for fluid leakage, cracks, damage, looseness, or wear.

- 1. Run engine until the fluid temperature reaches 50 to 80° C (122 to 176°F) in reservoir tank, and keep engine speed idle.
- 2. Turn steering wheel several times from full left stop to full right stop.
- Hold steering wheel at each lock position for five seconds and carefully, check for fluid leakage. **CAUTION:**

Do not hold the steering wheel in a locked position for more than 10 seconds. (There is the possibility that oil pump may be damaged.)

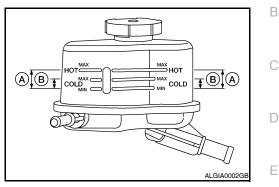
- 4. If fluid leakage at connections is noticed, then loosen flare nut and then retighten. Do not overtighten connector as this can damage O-ring, washer and connector.
- 5. If fluid leakage from oil pump is noticed, check oil pump. Refer to <u>ST-12</u>.
- Check steering gear boots for accumulation of fluid indicating from steering gear.

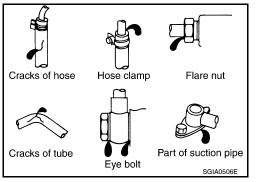
#### AXLE AND SUSPENSION PARTS

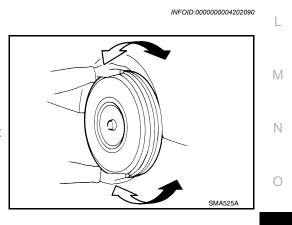
#### **AXLE AND SUSPENSION PARTS : Inspection**

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

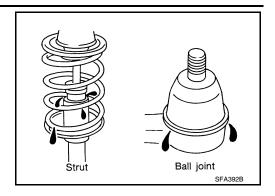
- Shake each wheel to check for excessive play.
- · Check wheel bearings for smooth operation.
- Check axle and suspension nuts and bolts for looseness.
- Check strut (shock absorber) for oil leakage or other damage.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks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







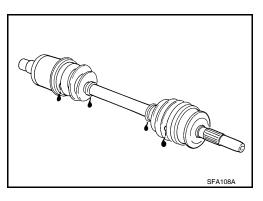
#### < ON-VEHICLE MAINTENANCE >



DRIVE SHAFT

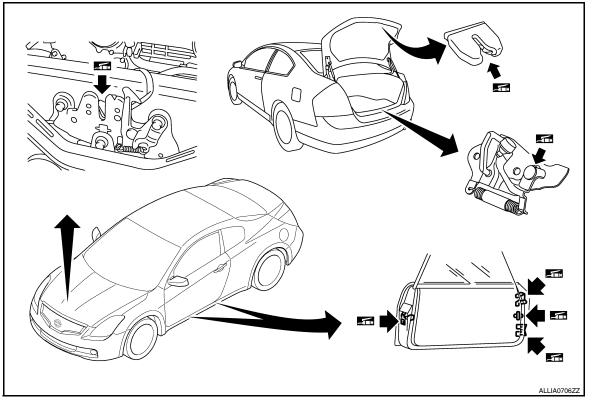
**DRIVE SHAFT : Inspection** 

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



#### LOCKS, HINGES AND HOOD LATCH

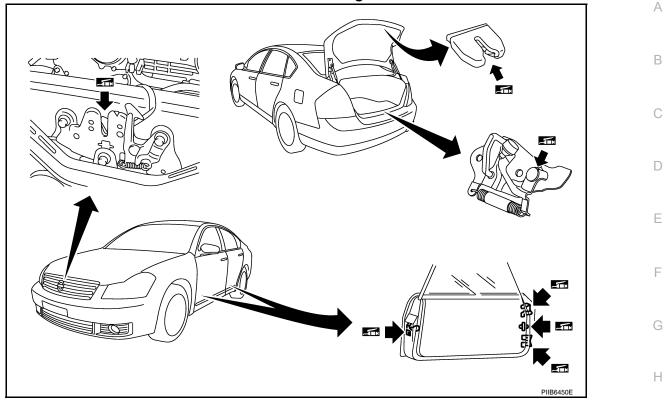
LOCKS, HINGES AND HOOD LATCH : Lubricating - Coupe



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#### < ON-VEHICLE MAINTENANCE >

LOCKS, HINGES AND HOOD LATCH : Lubricating - Sedan



## SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS

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

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#### **CAUTION:**

<ul> <li>After any collision, inspect all seat belt assemblies, including retractors and other attached hard- wares (I.e. anchor bolt, guide rail set). Nissan recommends to replace all seat belt assemblies in use during a collision, unless not damaged and properly operating after minor collision. Also inspect seat belt assemblies not in use during a collision, and replace if damaged or improperly operating.</li> </ul>	K
Seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal colli- sion where the driver and passenger air bags are deployed.	L
<ul> <li>If any component of seat belt assembly is questionable, do not repair.</li> <li>Replace as seat belt assembly.</li> </ul>	
If webbing is cut, frayed, or damaged, replace belt assembly.	M
<ul> <li>Never oil tongue and buckle.</li> <li>Use a genuine NISSAN seat belt assembly.</li> </ul>	
For details, refer to <u>SB-4, "Inspection"</u> in SB section.	Ν

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