MAINTENANCE

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PRECAUTIONS

Precautions for Supplemental Restraint System (SRS) "AIR BAG"

Precautions for Supplemental Restraint System (SRS) "AIR BAG"

The Supplemental Restraint System "AIR BAG", used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger in a frontal collision. The Supplemental Restraint System consists of air bag modules (located in the center of the steering wheel and on the instrument panel on the passenger side), a diagnosis sensor unit, warning lamp, wiring harness and spiral cable. Information necessary to service the system safely is included in the **RS section** of this Service Manual. **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.

PREPARATION

Special Service Tools

The actual shapes of Ke	ent-Moore tools may differ from those of a	Service Tools special service tools illustrated here.	NBMA0002	A
Tool number (Kent-Moore No.) Tool name	Description			GI MA
KV10115801 (J38956) Oil filter cap wrench		Removing oil filter a: 64.3 mm (2.531 in)		EM
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GENERAL MAINTENANCE

General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform 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
Tires	Check the pressure with a gauge periodically when at a service station, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.	_
Wheel nuts	When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	
Tire rotation	Tires should be rotated every 6,000 km (3,750 miles).	MA-24
Wheel alignment and balance	If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	MA-24, "Front Wheel Alignment" in SU section
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 and back 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-27

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
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.	_
Warning lamps and buzzers/chimes	Make sure that all warning lamps and buzzers/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 conditioning.	_
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.	
Seat belts	Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly and smoothly and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	MA-28, "Seat Belt Inspection" in RS section
Brakes	Check that the brake does not pull the vehicle to one side when applied.	

GENERAL MAINTENANCE

Item		Reference page	
Brake pedal and booster	Check the pedal for smooth operation and make sure it has the proper dis- tance under it when depressed fully. Check the brake booster function. Be sure to keep floor mats away from the pedal.	"Brake Pedal and Bracket" and "Brake Booster" in BR section	-
Parking brake	Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.	"Parking Brake Control" in BR section	
Automatic transmis- sion "Park" mecha- nism	Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the selector lever in the "P" position without applying any brakes.		-

UNDER THE HOOD AND VEHICLE

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-14
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.	trapper-
Brake fluid levels	Make sure that the brake fluid levels are between the "MAX" and "MIN" lines on the reservoir.	MA-25
Battery	Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines.	
Engine drive belts	Make sure that no belt is frayed, worn, cracked or oily.	MA-13
Engine oil level	Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-17
Power steering fluid level and lines	Check the level on the dipstick with the engine off. Check the lines for improper attachment, leaks, cracks, etc.	MA-27
Automatic transmis- sion fluid level	Check the level on the dipstick after putting the selector lever in "P" with the engine idling.	MA-21
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-21
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.	_
Fluið leaks	Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or gasoline fumes are evident, check for the cause and correct it immediately.	~

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PERIODIC MAINTENANCE

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.

Sabadula 1	 Follow Periodic Maintenance Schedule 1 if your driving habits frequently includes one or more of the following driving conditions: Repeated short trips of less than 5 miles (8 km). Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing. 	Emission Control Sys- tem Maintenance	MA-7
Schedule 1	 Operating in hot weather in stop-and-go "rush hour" traffic. Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use. Driving in dusty conditions. Driving on rough, muddy, or salt spread roads. Towing a trailer, using a camper or a car-top carrier. 	Chassis and Body Maintenance	MA-8
Cabadula O	Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits.	Emission Control Sys- tem Maintenance	MA-9
Schedule 2		Chassis and Body Maintenance	MA-10

Maintenance for off-road driving

Whenever you drive off-road through sand, mud or water, more frequent maintenance may be required of the following items:

- ▲ Brake pads and discs
- ▲ Brake lining and drums
- ▲ Brake lines and hoses
- ▲ Wheel bearing grease
- ▲ Differential, transmission and transfer oil
- ▲ Steering linkage
- A Propeller shaft and drive shafts
- ▲ Air cleaner filter

PERIODIC MAINTENANCE

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	Miles × 1,000 3 (km × 1,000) Months		NOTE (1)			NOTE (2)	NOTE (3)					ditions, more frec smely adverse we them immediate or 48 months, rel with """ are reco recall liability. Oth	
MAINTENANCE OPERATION	Perform at number of miles, M kilometers or months, which- (H ever comes first.	Drive belts	Air cleaner filter	EVAP vapor lines	Fuel lines	Fuel filter*	Engine coolant	Engine oil	Engine oil filter (Use part No. 15208-31U00 or equivalent.)	Spark plugs	Timing belt	10.10.1. To operating mainly in dusty conditions, more frequent maintenance may be required. (2) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become dogged. In such an event, replace humin medicately. (3) After 600 miles (96.00 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) After 600 miles (96.00 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. A 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.	

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Schedule 1

Multificational control of the control of									A	Abbreviations: R = Replace.	tions:	R = Re	place.		spect.	Correc	t or re	olace if	neces	I = Inspect. Correct or replace if necessary. L = Lubricate
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Brake lines & cubics Image Imag	4	Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.5 (12) 6	11.25 (18) 9			22.5 2 (36) 18				37.5 (60) 30			48.75 (78) 39		56.25 (90) 45	60 (96) 48	Section - Page or - Content Title
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LSD gear oli NOTE (1) I	ı I	Automatic transmission & all mode 4WD transfer fluid & differential gear oil (exc. LSD)	NOTE (1)								_								_	MA-21, 22, 23
Steering gear, inkage & transfer gear, axie & sus- pension parts I I I I I I I I MA-26 Drive shaft pears, axie & sus- pension parts Drive shaft boots & propel- ler shaft I I I I I I MA-26 Drive shaft boots & propel- ler shaft MOTE (2) L L L L L L L I MA-23 Propeller shaft NOTE (2) L L L L L L L L L L L NOTE (3) MA-23 Front wheel bearing grease NOTE (3) L L L L L L L L L L MA-23 Front wheel bearing grease NOTE (3) I I I I I MA-23 Front wheel bearing grease NOTE (4) I I I I MA-21 Ma bag system NOTE (4) I I I I I MA-21 Ma bag system NOTE (4) I I I I I <td></td> <td>LSD gear oil</td> <td>NOTE (1)</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>œ</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>œ</td> <td>MA-24</td>		LSD gear oil	NOTE (1)				-				œ				-				œ	MA-24
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Air bag system NOTE (4) RS - Maintenance NOTE: NOTE: RS - Maintenance NOTE: It towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) fluid (A/T, all mode 4WD transfer)/differential gear oil (extra every 30,000 miles (48,000 km) or 24 months, and change LSD gear oil every 15,000 miles (24,000 km) or 12 months. RS - Maintenance	ſ	Exhaust system			-		_		_				_				_		-	MA-21
NOTE: (1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) fluid (A/T, all mode 4WD transfer)/differential gear oil (ex LSD) at every 30,000 miles (48,000 km) or 24 months, and change LSD gear oil every 15,000 miles (24,000 km) or 12 months. (2) The propeller shaft should be re-greased daily if it is immersed in water.		Air bag system	NOTE (4)																	RS - Mainte- nance Items
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MA-8

(2) The propeller shaft should be re-greased daily if it is immersed in water.
(3) If operating frequently in water, replace grease every 3,750 miles (6,000 km) or 3 months.
(4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label.
(5) Refer to "Front Suspension Parts" and "Rear Suspension Parts" in SU section, "Front Axle Parts" and "Rear Axle Parts" in AX section.

Schedule 1 (Cont'd)

PERIODIC MAINTENANCE

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Perform at numboor months, which	Drive belts	Air cleaner filter	EVAP vapor lines	Fuel lines	Fuel filter*	Engine coolant	Engine oil	Engine oil fitter (l 31U00 or equival-	Spark plugs	Timing belt	1) If vehicle is ope slogged. In such a 2) After 60,000 mi ★ Maintenance ite smission warranty	
	15 22.5 30 37.5 45 52.5 60 (24) (36) (48) (60) (72) (84) (96) 12 18 24 30 36 42 48	number of miles, kilometers Miles x 1,000 7.5 15 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (48) (60) (72) (84) (96) (96) Months 6 12 18 24 30 36 42 48 19	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (48) (60) (72) (84) (96) Months 6 12 18 24 30 36 42 48 filter 1 1 1 1 1 1 1	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (48) (60) (72) (84) (96) whichever comes first. Months 6 12 18 24 30 36 42 48 filter r r r r r r r r r	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (48) (60) (72) (84) (96) Months 6 12 18 24 30 36 42 48 Ifter 1 1 1 1 1 1 1* Inter 1 1 1 1 1* 1 1*	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (48) (60) (72) (84) (96) whichever comes first. Months 6 12 18 24 30 36 42 48 filter If I	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (72) (84) (96) Whichever comes first. Months 6 12 18 24 30 36 42 48 filter If N If N If If	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (72) (84) (96) whichever comes first. Months 6 12 18 24 30 36 42 48 filter Iter It It	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (72) (84) (96) whichever comes first. Months 6 12 18 24 30 36 42 48 filter Inter Inter <td>number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (72) (84) (96) filter nontiss (inclosing) (12) (12) (12) (12) (12) (12) (12) (13) (12) (14) (16) (17) (14) (16) (17) (14) (16) (17) (14) (16) (17) (14) (17) (15) (17) (16) (17)</td> <th>mat number of miles, kilometers Miles x 1,000 (km x 1,000) 7.5 (l 2, 1) 1.5 (2, 4) 2.5 (3, 6) 3.5 (4, 6) 4.5 (2, 7) 5.5, 5 (4, 8) 60 (4, 8) 7 7 7 80 and filter Months Months Months Months Months 1</th> <td>Under of miles, kilometers Miles X 1,000 (mr x 1,000) 7.5 1.6 $2.5.5$ 300 37.5 45 52.5 601 whichere commas first. Months (mr x 1,000) (12) (24) (36)<!--</td--></td>	number of miles, kilometers Miles x 1,000 7.5 15 22.5 30 37.5 45 52.5 60 whichever comes first. (km x 1,000) (12) (24) (36) (72) (84) (96) filter nontiss (inclosing) (12) (12) (12) (12) (12) (12) (12) (13) (12) (14) (16) (17) (14) (16) (17) (14) (16) (17) (14) (16) (17) (14) (17) (15) (17) (16) (17)	mat number of miles, kilometers Miles x 1,000 (km x 1,000) 7.5 (l 2, 1) 1.5 (2, 4) 2.5 (3, 6) 3.5 (4, 6) 4.5 (2, 7) 5.5, 5 (4, 8) 60 (4, 8) 7 7 7 80 and filter Months Months Months Months Months 1	Under of miles, kilometers Miles X 1,000 (mr x 1,000) 7.5 1.6 $2.5.5$ 300 37.5 45 52.5 601 whichere commas first. Months (mr x 1,000) (12) (24) (36) </td

i, f 1: At the miles Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary.

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Schedule 2

MAINTENANCE OPERATION				MAI	NTENANC	MAINTENANCE INTERVAL	AL		: - -	MAINTENANCE INTERVAL Reference Section
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	7.5 (12) 6	15 (24) 12	22.5 (36) 18	30 (48) 24	37.5 (60) 30	45 (72) 36	52.5 (84) 42	60 (96) 48	- Page or - Content Title
Brake lines & cables			-				-		-	MA-25
Brake pads, discs, drums & linings			-				-		-	MA-25, 26
Automatic transmission & all mode 4WD transfer fluid & differential gear oil (exc. LSD)			_		_				_	MA-21, 22, 23
LSD gear oil			_		н		-		æ	MA-24
Steering gear, linkage & transfer gear, axle & suspension parts									-	MA-26 NOTE (3)
Drive shaft boots & propeller shaft			_		_		-			MA-23 AX - Drive Shaft
Propeller shaft	NOTE (1)		٦							MA-23
Front wheel bearing grease					н		-		æ	AX - Front Axle Parts
Exhaust system					_				_	MA-21
Air bag system	NOTE (2)									RS - Maintenance Item
NOTE:				_						

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

MA-10

The propeller shaft should be re-greased daily if it is immersed in water.
 Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label.
 Refer to "Front Suspension Parts" and "Rear Suspension Parts" in SU section, "Front Axle Parts" and "Rear Axle Parts" in AX section.

PERIODIC MAINTENANCE

CHASSIS AND BODY MAINTENANCE

NBMA0004S0202

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82

RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

Nissan Matic "D" (Continental U.S. and Alaska)

Standard differential gear: API GL-5*1

Limited-slip differential (LSD) gear:

90*4 approved for Nissan LSD*5.

Type DEXRON[™] III or equivalent

DOT 3 (US FMVSS No. 116)

NLGI No. 2 (Lithium soap base)

or Genuine Nissan Automatic Transmission Fluid

Use only LSD gear oil API GL-5 and SAE 80W-

Nissan Matic "D" (Continental U.S. and Alaska)

Genuine Nissan Brake Fluid*3 or equivalent

or Genuine Nissan Automatic Transmission Fluid

NLGI No. 2 (Molybdenum disulphide lithium soap

Fluids and Lubricants						
	Capacity (Approximate)			Becommended Eluide/Lubriconte		
	US measure	Imp measure	Liter	Recommended Fluids/Lubricants		
With oil filter	3-7/8 qt	3-1/4 qt	3.7	• ADLCC or SLL and Energy Concerning II*1		
Without oil filter	3-5/8 qt	3 qt	3.4	 API SG or SH and Energy Conserving II*1 API Certification Mark*1 		
(With reser-	11 -1/4 qt	9-3/8 qt	10.6	Anti-freeze coolant (Ethylene glycol base)		

3.0

2.8

2.05

8.5

(Canada)*6

(Canada)*2

base)

Propeller shaft grease Multi-purpose grease

3-1/8 gt

5-7/8 pt

4-3/8 pt

9 qt

2-5/8 qt

4-7/8 pt

3-5/8 pt

7-1/2 qt

*1: For further details, see "SAE Viscosity Number".

Engine oil (Refill)

voir)

oil

Differential

Brake fluid

carrier gear oil

Cooling system

All mode 4WD transfer gear

Automatic transmission fluid

Power steering fluid

Rear

Front

رنىڭ *2: DexronTM III/MerconTM or equivalent may also be used. Outside the continental United States and Alaska contact an INFINITI deal-ership for more information regarding suitable fluids, including recommended brand(s) of DexronTM III/MerconTM Automatic Transmission Fluid.

*3: Available in mainland U.S.A. through your INFINITI dealer.

*4: SAE 90 is acceptable in ambient temperatures above -18°C (0°F).

*5: Contact an INFINITI dealer for a list of approved oils.

*6: Outside the continental United States and Alaska contact an INFINITI dealership for more information regarding suitable fluids, ST including recommended brand(s) of DexronTM III/MerconTM Automatic Transmission Fluid.

RS

BT

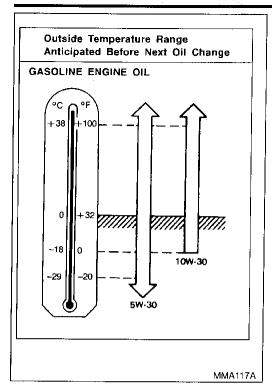
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RECOMMENDED FLUIDS AND LUBRICANTS

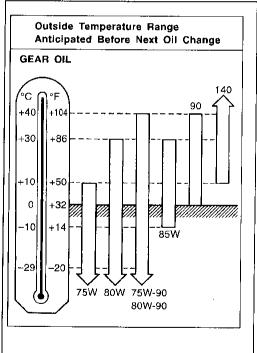
SAE Viscosity Number



SAE Viscosity Number GASOLINE ENGINE OIL

NBMA0005S02

SAE 5W-30 viscosity oil is preferred for all temperatures. SAE 10W-30 viscosity oil may be used if the ambient temperature is above –18°C (0°F).



MMA118A

Outside temperature down to		Anti-freeze	Soft water
°C	۴F		
-35	30	50%	50%

GEAR OIL

80W-90 for differential is preferable if the ambient temperature is below 40°C (104°F).

Anti-freeze Coolant Mixture Ratio

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

When adding or replacing coolant, be sure to use only an ethylene glycol anti-freeze with the proper mixture ratio of 50% anti-freeze and 50% soft water.

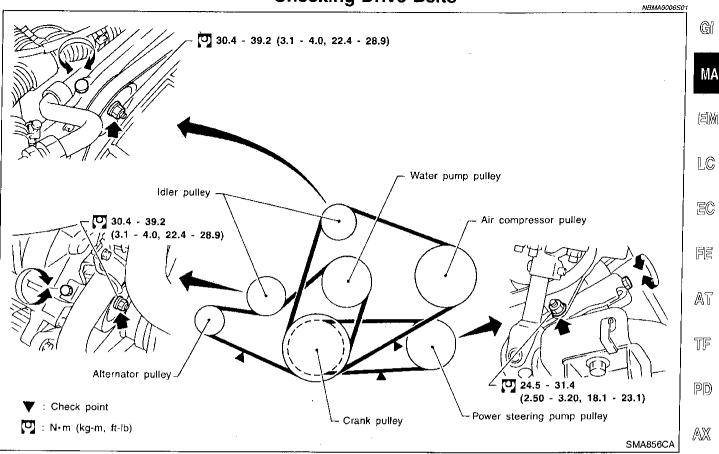
Other types of coolant solutions may damage your cooling system.

ENGINE MAINTENANCE

Checking Drive Belts

NBMA0006





- 1. Inspect for cracks, fraying, wear or oil adhesion. If necessary, surplace with a new one.
- 2. Inspect drive belt deflections by pushing on the belt midway between pulleys.

Inspect drive belt deflections when engine is cold. Adjust if belt deflections exceed the limit. Belt deflection:

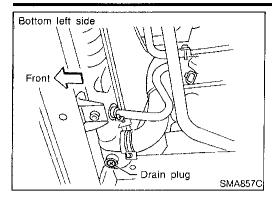
Unit: mm (in)

			•••••••••••••••••••••••••••••••••••••••
	Used be	Deflection of new	
	Limit	Deflection after adjustment	Deflection of new belt
Alternator	10.5 (0.413)	6 - 7 (0.24 - 0.28)	5.5 - 6.5 (0.217 - 0.256)
Air conditioner compressor	16.5 (0.650)	9 - 11 (0.35 - 0.43)	9 - 10 (0.35 - 0.39)
Power steering oil pump	18 (0.71)	9 - 10 (0.35 - 0.39)	9 - 11 (0.35 - 0.43)
Applied pushing force	98 N (10 kg, 22 lb)		

ST

67

Changing Engine Coolant



ENGINE MAINTENANCE

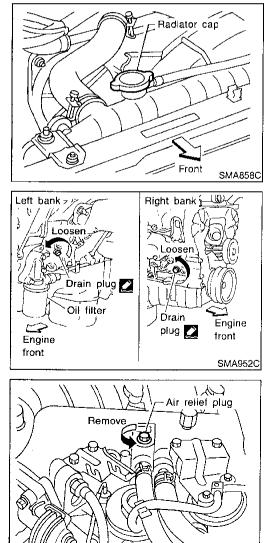
Changing Engine Coolant WARNING:



To avoid the danger of being scalded, never change the coolant when the engine is hot.

----DRAINING ENGINE COOLANT----

- 1. Set air conditioning system as follows to prevent coolant from remaining in the system.
- a. Turn ignition switch "ON" and set temperature controller to maximum hot position.
- b. Wait 10 seconds before turning ignition switch "OFF".
- 2. Open radiator drain plug at the bottom of radiator.



3. Remove radiator filler cap.

Remove reservoir tank, drain coolant, then clean reservoir tank.

Install it temporarily.

Be careful not to allow coolant to contact drive belts.

- 4. Open drain plugs on both sides of cylinder block and water pump side, then open air relief plug to drain coolant.
- 5. Flush cooling system by running fresh water through radiator.

SMA860C

ENGINE MAINTENANCE

Radiator	 —REFILLING ENGINE COOLANT— 6. Install reservoir tank, radiator drain plug, and cylinder block drain plugs. Apply sealant to the thread of cylinder block drain plug. [7]: 34.3 - 44.1 N·m (3.5 - 4.5 kg-m, 25 - 33 ft-lb) 	gi Ma Em Lc
Water outlet hose	 Remove heater hose at feeding connector on heater unit. Fill radiator slowly with coolant until coolant spills from the air relief plug, then close air relief plug. Fill radiator and reservoir tank with coolant up to the MAX level and install radiator cap. Air relief plug: ? 7 - 8 N·m (0.7 - 0.8 kg-m, 61 - 69 in-lb) For coolant mixture ratio, refer to MA-12. Coolant capacity (Without reservoir tank): 	EC FE AT
Accelerator wire SMA875C	9.4 ℓ (10 US qt, 8-1/4 lmp qt) Reservoir tank capacity (for MAX level):	TF PD
MAX. MIN.	 1.2 ℓ (1-1/4 US qt, 1-1/8 Imp qt) Pour coolant through coolant filler neck slowly to allow air in system to escape. 10. Warm up engine to normal operating temperature. 11. Run engine at 3,000 rpm for 10 seconds and return to idle speed. Repeat 2 or 3 times. 	AX SU
SMA412B	 Watch coolant temperature gauge so as not to overheat the engine. 12. Stop engine and cool it down. Cool down using a fan to reduce the time. 13. Remove the radiator filler cap and check coolant level. 	BR ST
	15. Repeat step 10 through step 14 two or more times.	RS
	running engine from idle up to 3,000 rpm with heater tempera- ture control set at several positions between COOL and HOT.	BT
	17. If sound is heard, bleed air from cooling system by repeating steps 10 through 14 until coolant level no longer drops.	HA SC
		<u>EI.</u>

IDX

Checking Fuel Lines

ENGINE MAINTENANCE

Checking Fuel Lines Engine Fuel line Fuel tank SMA803A **CAUTION:** 3 (0.12) Unit: mm (in) ۲ hose clamps. 28 (1.10) Fuel hose clamps 1.0 - 1.5 N·m (0.10 - 0.15 kg-m, 8.7 - 13.0 in-lb) **MMA104A** 🖥 FUEL PRES RELEASE 🔳 📘 WARNING: FUEL PUMP WILL STOP BY TOUCHING START DURING (F) WITH CONSULT IDLE. CRANK A FEW TIMES AFTER Start engine. 1. ENGINE STALL. 2. 3. **STA**R1 SEF823K 4. 5. 6. Replace fuel filter. Fuel filter ۲ ØĘ e resinous fuel filter. Lines". Rearaxle SMA861C **WITHOUT CONSULT** 1. 2. Start engine. 3.

Fuel pump fuse 홍 3

SMA869C

NBMA0006S03 Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration. If necessary, repair or replace faulty parts.

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber

Ensure that screw does not contact adjacent parts.

Changing Fuel Filter

Before removing fuel filter, release fuel pressure from fuel line.

NBMA000650401

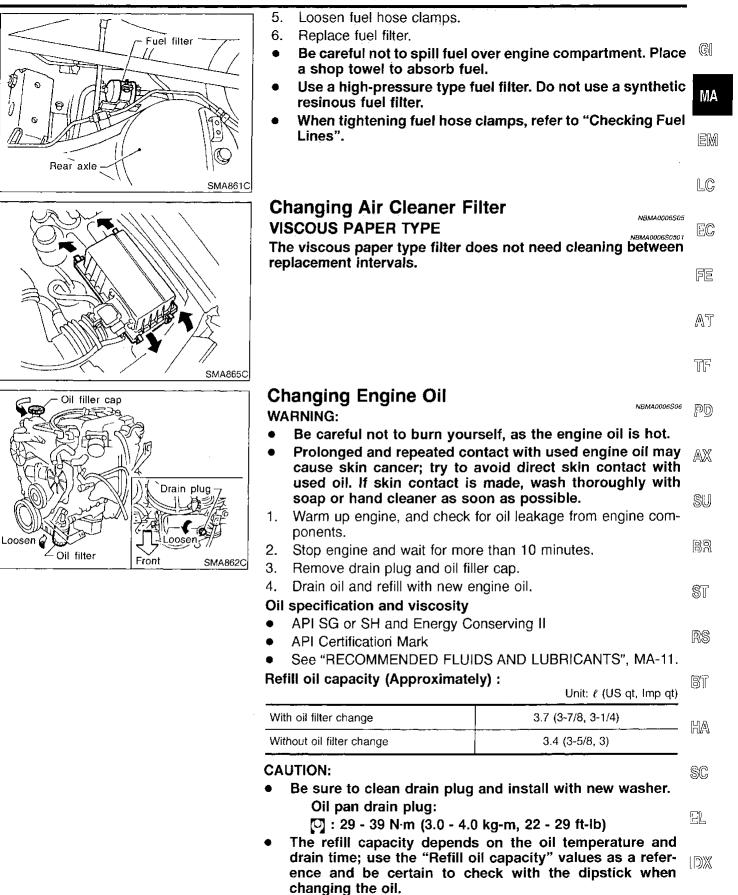
NBMA0006504

- Perform "FUEL PRESSURE RELEASE" in "WORK SUP-PORT" mode to release fuel pressure to zero.
- After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- Turn ignition switch "OFF".
- Loosen fuel hose clamps.
- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic
- When tightening fuel hose clamps, refer to "Checking Fuel

NBMA0006S0402

- Remove fuel pump fuse.
- After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- Turn ignition switch "OFF" and install fuel pump fuse. 4.

ENGINE MAINTENANCE



MA-17

Changing Engine Oil (Cont'd)

ENGINE MAINTENANCE

- 5. 6. 7. Refill oil to "H" level. Do not overfill. SMA878C CI 1. W/ Be are Thu val Refit SMA863C 2.
 - Warm up engine and check area around drain plug and oil filter for oil leakage.
 - . Stop engine and wait for more than 10 minutes.
 - . Check oil level.

Changing Oil Filter

1. Remove oil filter with Tool. **WARNING:**

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

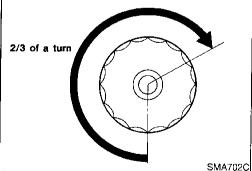
NBMA0006S07

The filter is a full-flow cartridge type and is provided with a relief valve.

Refer to LC section ("OII Filter", "ENGINE LUBRICATION SYS-TEM").

2. Clean oil filter mounting surface on cylinder block. Coat rubber seal of new oil filter with engine oil.

_____SMA010



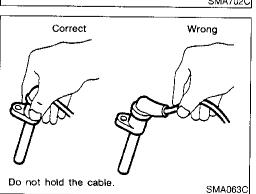
- 3. Screw in the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
- 4. Add engine oil.

Refer to Changing Engine Oil.

• Clean excess oil from engine.

Changing Spark Plugs

1. Disconnect ignition wires from spark plugs at boot. Do not pull on the wire.



ENGINE MAINTENANCE

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SMA866C

Changing Spark Plugs (Cont'd)

- 2. Remove spark plugs with 16 mm (0.63 in) spark plug wrench.
 - Spark plug wrench set is available in tool kit provided on vehicle. A type is for spark plugs except for No. 6 cylinder B type is for

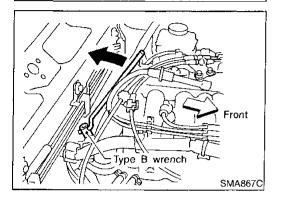
A type is for spark plugs except for No. 6 cylinder. B type is for No. 6 cylinder. Refer to section 995 of PARTS CATALOG for tool kit.

МА

GI

EM

LC



A type

B type

Wrench

	ark plug typ		gup	01		opun	plug.
3.	Check type	and	oap	of	new	spark	olua.

Spark plug type:				
	Symbol	Make		
Standard type	BKR5E-11	NGK	FE	
Cold type	BKR6E-11	NGK		
Hot type	BKR4E-11	NGK	at at	

Use standard type spark plug for normal condition.

The hot type spark plug is suitable when fouling may occur with the $\mathbb{T}\mathbb{P}$ standard type spark plug such as:

- frequent engine starts
 - low ambient temperatures

The cold type spark plug is suitable when spark knock may occur with the standard type spark plug such as:

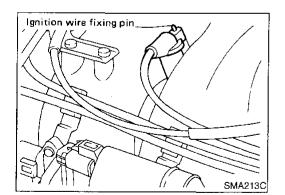
- extended highway driving
- frequent high engine revolution Gap:

1.0 - 1.1 mm (0.039 - 0.043 in)

BR

SU

PD



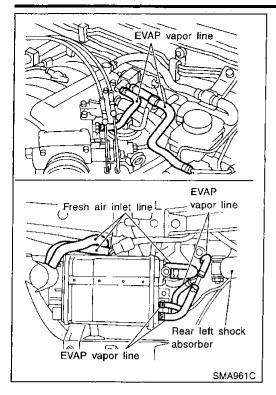
When installing spark plugs to No. 2 and 4 cylinders, securely fit each ignition wire mounting hole onto the ignition wire fix- string pin.

BT

- KA
- SC
- EL.

IDX

Checking EVAP Vapor Lines



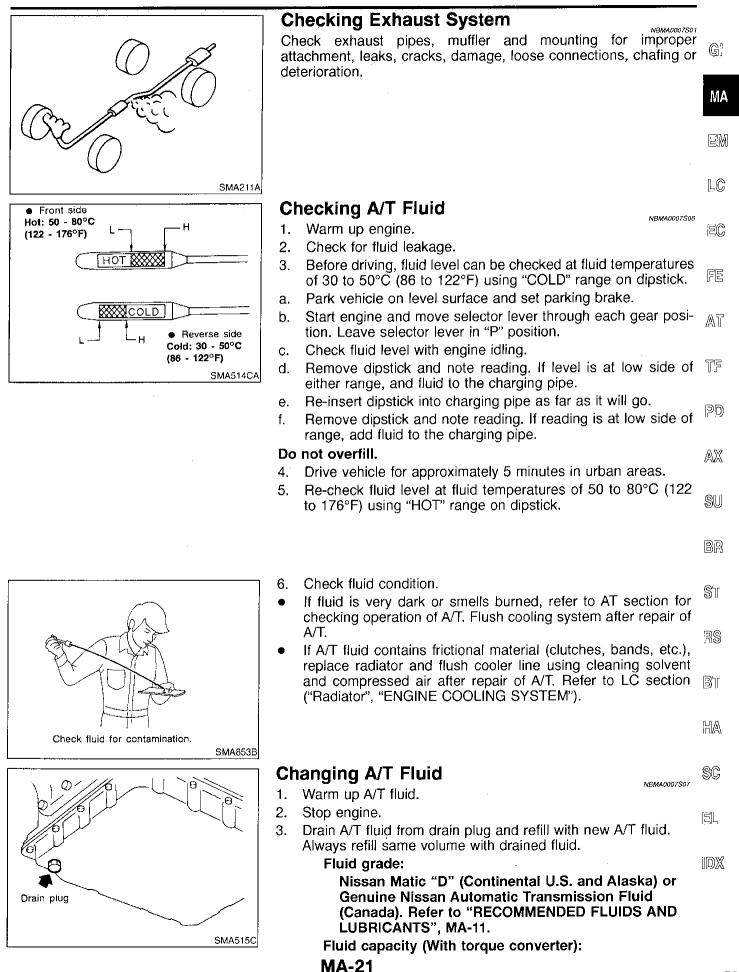
ENGINE MAINTENANCE

Checking EVAP Vapor Lines

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

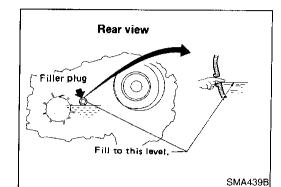
Refer to EC section ("EVAPORATIVE EMISSION SYSTEM").

Checking Exhaust System



8.5 ℓ (9 US qt, 7-1/2 lmp qt) Drain plug:

- _ [] : 29 39 N·m (3.0 4.0 kg-m, 22 29 ft-lb)
- 4. Run engine at idle speed for five minutes.
- 5. Check fluid level and condition. Refer to "Checking A/T Fluid". If fluid is still dirty, repeat steps 2 through 5.



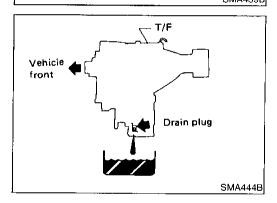
Checking All Mode 4WD Transfer Fluid

NBMA0007S24

Check for oil leakage and fluid level. A/T fluid is used for the all mode 4WD transfer in the factory. Never start engine while checking fluid level.

Filler plug:

❷ : 10 - 20 N⋅m (1.0 - 2.0 kg-m, 87 - 174 in-lb)



Changing All Mode 4WD Transfer Fluid

When changing all mode 4WD transfer fluid completely, A/T fluid may be used.

Fluid grade:

Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada)

Refer to "RECOMMENDED FLUIDS AND LUBRICANTS", MA-11.

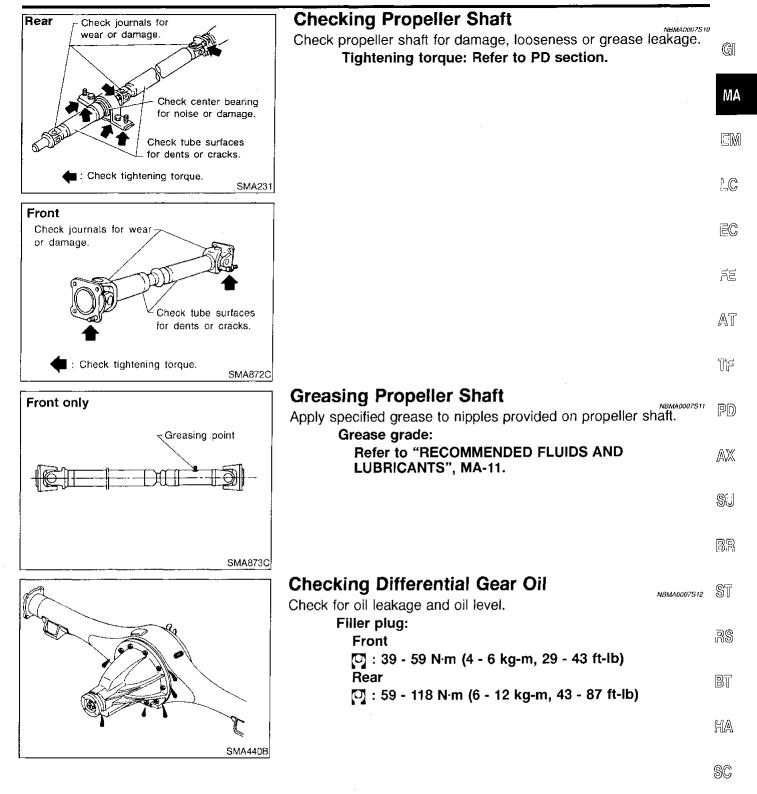
Fluid capacity:

3.0 ℓ (3-1/8 US qt, 2-5/8 Imp qt)

Drain plug:

🔄 : 10 - 20 N·m (1.0 - 2.0 kg-m, 87 - 174 in-lb)

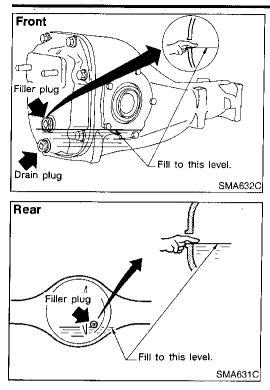
Checking Propeller Shaft



EL

1DX

Changing Differential Gear Oil



Changing Differential Gear Oil NBMA0007S13 Drain oil from drain plug and refill with new gear oil. 1. 2. Check oil level. Oil grade and viscosity: See "RECOMMENDED FLUIDS AND LUBRICATNS", MA-11, 12. **Oil capacity:** Front 2.05 l (4-3/8 US pt, 3-5/8 imp pt) Rear 2.8 *l* (5-7/8 US pt, 4-7/8 Imp pt) Drain plug: Front □ : 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb) Rear [¹]: 59 - 118 N⋅m (6 - 12 kg-m, 43 - 87 ft-lb)

LIMITED-SLIP DIFFERENTIAL GEAR

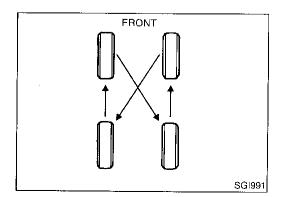
- Use only approved limited-slip differential gear oil.
- Limited-slip differential identification.
- 1. Lift both rear wheels off the ground.
- 2. Turn one rear wheel by hand.
- 3. If both rear wheels turn in the same direction simultaneously, vehicle is equipped with limited-slip differential.

NBMA0007S1301

NBMA0007S15

Balancing Wheels

Adjust wheel balance using the road wheel center. Wheel balance (Maximum allowable unbalance): Refer to SDS, MA-29.



Tire Rotation

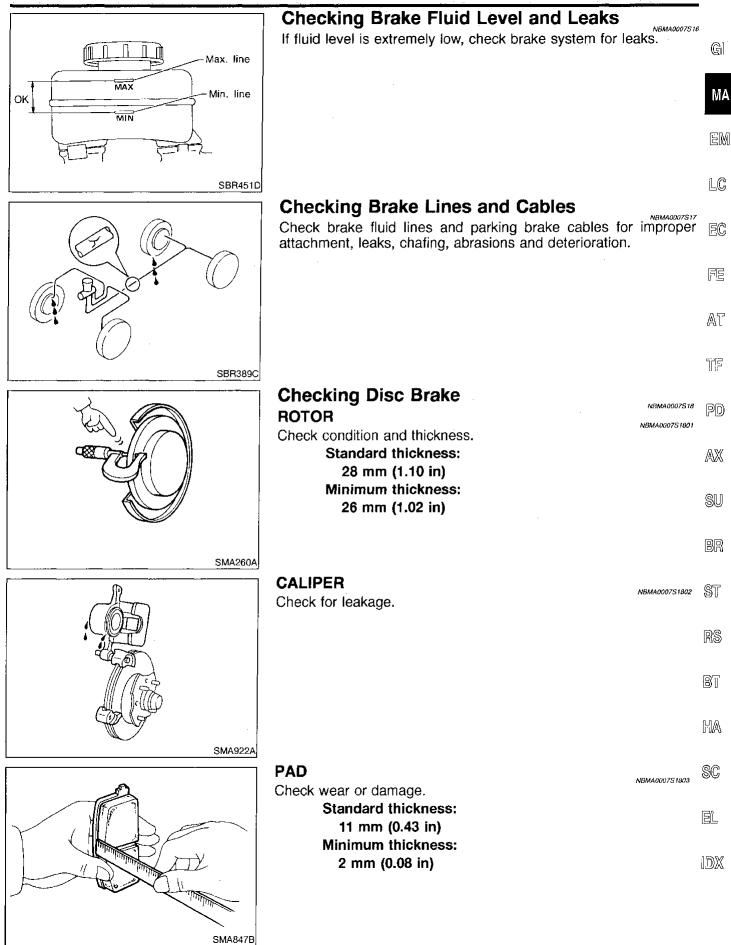
- After rotating the tires, adjust the tire pressure.
- Retighten the wheel nuts after the aluminum wheel has been run for the first 1,000 km (600 miles). (also in cases of a flat tire, etc.)

Wheel nuts:

[] : 118 - 147 N⋅m (12 - 15 kg-m, 87 - 108 ft-lb)

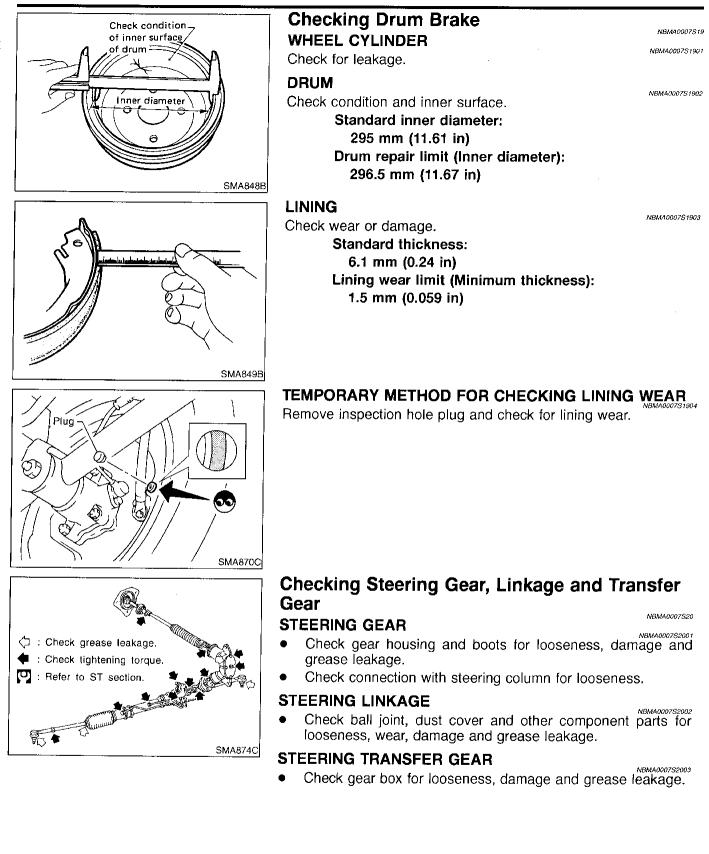
MA-24

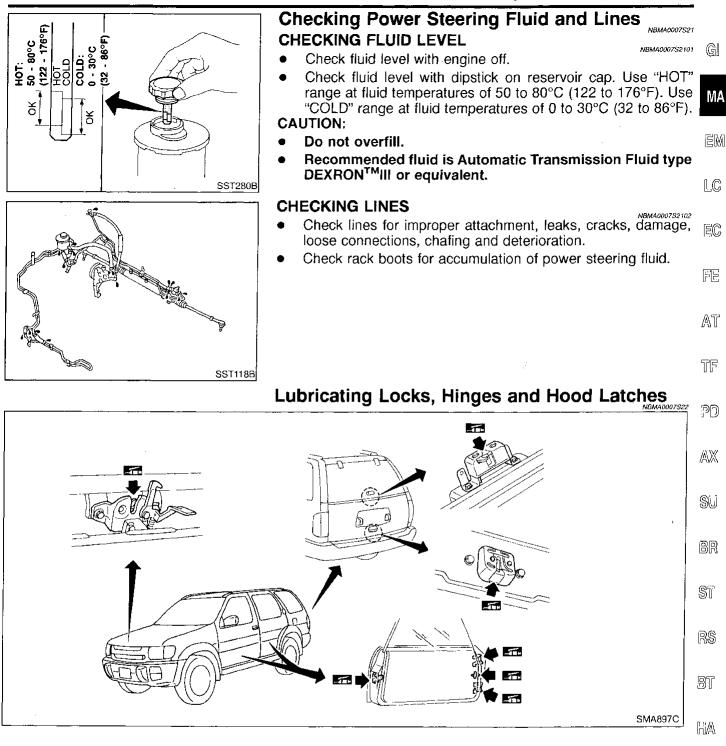
Checking Brake Fluid Level and Leaks



MA-25

Checking Drum Brake





SC

5.

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Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters NBMA0007S23

CAUTION:

 After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (I.e. guide rail set). Nissan recommends Check anchors for to replace all seat belt assemblies loose mounting. in use during a collision, unless not damaged and properly operating after minor collision. Check belts Also inspect seat belt assemblies not for damage. in use during a collision, and replace Check retractor if damaged or improperly operating. for smooth If any component of seat belt assembly operation. 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. Q94 Use a genuine seat beit assembly. Ó For details, refer to "Seat Belt Inspection", "SEAT BELTS" in RS section. Check function of buckles and tongues when buckled Anchor bolt and released. 🖸 43 - 55 N-m (4.4 - 5.6 kg-m, 32 - 41 ft-ib) SMA854CA

SERVICE DATA AND SPECIFICATIONS (SDS)

DRIVE BELT DEFLECTION

Engine Maintenance

Engine Maintenance

NEMACOOB

DRIVE BELT DEFLECTION			NBMA0008501 Unit: mm (in)	G	
	Used belt deflection		Deflection of new belt	14.6	
	Limit	Deflection after adjustment	Denection of new per	MA	
Alternator	10.5 (0.413)	6 - 7 (0.24 - 0.28)	5.5 - 6.5 (0.217 - 0.256)	<u>الات</u>	
Air conditioner compressor	16.5 (0.650)	9 - 11 (0.35 - 0.43)	9 - 10 (0.35 - 0.39)	- EM	
Power steering oil pump	18 (0.71)	9 - 10 (0.35 - 0.39)	9 - 11 (0.35 - 0.43)	. 6	
Applied pushing force		98 N (10 kg, 22 lb)		LC	
SPARK PLUG TYPE			NBMA0008502	ĒĊ	
Standard type		BKR5	E-11		
Cold type		BKR6E-11			
Hot type		BKR4	E-11		
Plug gap		1.0 - 1.1 mm (0.039 - 0.043 in)			

Chassis and Body Maintenance

WHEEL BALANCE				
Maximum allowable unbalance	Dynamic (At rim flange) g (oz)	10 (0.35) (one side)		
	Static g (oz)	20 (0.71)		

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