MAINTENANCE

SECTION MA

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Precautions for Supplemental Restraint System "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 NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- All SRS electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS "Air Bag".

General maintenance includes those items which should be checked during 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.

orm checks and inspections themselves or have their NISSAN dealers do them),	
Item	Reference page	
DUTSIDE THE VEHICLE The maintenance items listed here should be performed from time to time, unless otherwise specified.		N
Fires 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 pose nuts. Tighten if necessary.	<u> </u>	
Fire rotation Tires should be rotated every 12,000 km (7,500 miles.)	MA-18	
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-18, FA-5	F
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 or back hatch. Also, make sure that all latches lock securely. Lubricate f 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-19	() } }
NSIDE THE VEHICLE The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance-cleaning the vehicle, etc.		F
amps Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other amps are all operating properly and installed securely. Also, check headlamp aim.		F
Warning lamps and buzzers/chimes Make sure that all warning lamps and buzzers/ himes are operating properly.	—	F
Vindshield wiper and washer Check that the wipers and washer operate properly and hat the wipers do not streak.		E
Vindshield defroster Check that air comes out of the defroster outlets properly and in lood quantity when operating the heater or air conditioning.		<u> </u>
teering wheel Check that it has the specified play. Be sure to check for changes in the teering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	ST-5	
eats Check seat position controls such as seat adjusters, seatback recliner, etc. to make ure they operate smoothly and that all latches lock securely in every position. Check that he head restraints move up and down smoothly and that the locks (if equipped) hold ecurely in all latched positions. Check that the latches lock securely for folding-down rear eatbacks.	_	
eat belts Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and etractors) operate properly and smoothly and are installed securely. Check the belt web- ing for cuts, fraying, wear or damage.	MA-19	[
Clutch pedal Make sure the pedal operates smoothly and check that it has the proper free play.	CL-4	
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 distance under it when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.	BR-9, 14
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.	BR-33
Automatic transaxle "Park" mechanism Check that the lock release button on the selec- tor lever operates properly and smoothly. On a fairly steep hill check that your vehicle is held securely with the selector lever in the "P" position without applying any brakes.	. —
UNDER THE HOOD AND VEHICLE The maintenance items listed here should be checked periodically (e.g. each time you check the engine oil or refuel).	
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-11
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.	LC-8
Brake and clutch fluid levels Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir.	MA-15, 16
Battery Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines.	EL-14
Engine drive belts Make sure that no belt is frayed, worn, cracked or oily.	MA-9
Engine oil level Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-13
Power steering fluid level and lines Check the level on the dipstick with the engine off. Check the lines for proper attachment, leaks, cracks, etc.	MA-18
Automatic transaxle fluid level Check the level on the dipstick after putting the selector lever in "P" with the engine idling.	MA-15
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-15
Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt can easily accumulate.	
Fluid leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioning after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and correct it immediately.	

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

SCHEDULE 1

Follow Periodic Maintenance Schedule 1 if your driving habits frequently include one or more of the following driving conditions:

- Repeated short trips of less than 5 miles (8 km).
- Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freez- EM ing.
- 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 LG 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.

SCHEDULE 2

Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits.

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MA-6

PERIODIC MAINTENANCE

Schedule 1

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PERIODIC MAINTENANCE

Schedule 2

	Ca	pacity (Approximate	e)	Decouver de difficiale condituirie man
	US measure	Imp measure	Liter	Recommended fluids and lubricants
Engine oil (Refill)				
With oil filter	4-1/8 qt	3-3/8 qt	3.9	Energy Conserving Oils of API SG or SH
Without oil filter	3-3/4 qt	3-1/8 qt	3.5	*2, *3
Cooling system (Reservoir tank included)	8-1/4 qt	6-7/8 qt	7.8	Anti-freeze coolant (Ethylene glycol base)
Manual transaxle gear oil	10 pt	8-1/4 pt	4.7	API GL-4*2
Automatic transaxle fluid	10 qt	8-1/4 qt	9.4	Genuine Nissan ATF or equivalent*1
Power steering fluid	1 qt	3/4 qt	0.9	Type DEXRON [™] II or equivalent
Brake & Clutch fluid	_			Genuine Nissan Brake Fluid*4 or equiva- lent DOT 3 (US FMVSS No. 116)
Multi-purpose grease				NLGI No. 2 (Lithium soap base)

Fluids and Lubricants

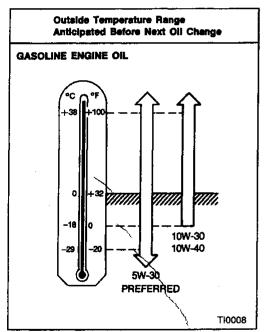
*1: For more information regarding suitable fluids, contact a NISSAN dealer for correct brand of DEXRONTM III E or DEXRONTM III type fluid.

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

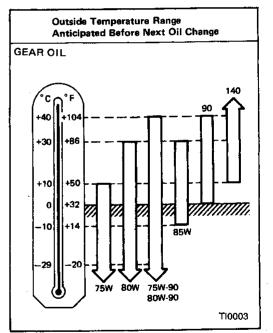
*3: Energy conserving oils

These oils can be identified by such labels as EC-I, EC-II, energy conserving, energy saving, improved fuel economy, etc.

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



SAE Viscosity Number



5W-30 is preferable for all ambient temperatures. 20W-40 and 20W-50 are usable for ambient temperatures above 10°C (50°F) for all seasons.

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. See the following

Anti-freeze Coolant Mixture Ratio

below 40°C (104°F).

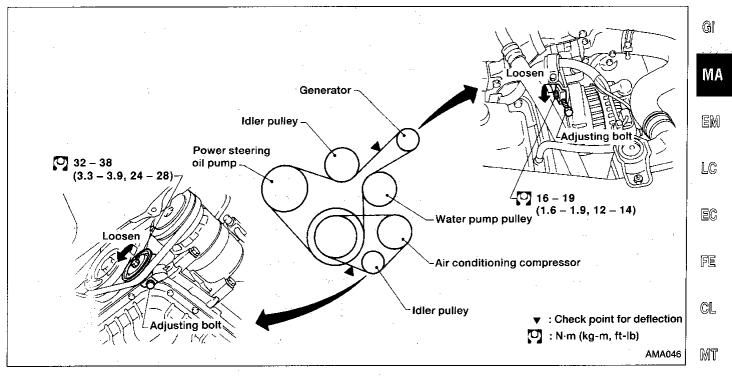
examples:

ature down to	Anti-	Soft
°F	freeze	water
5	30%	70%
-30	50%	50%
	5	°F freeze 5 30%

80W-90 is preferable for ambient temperatures

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

Checking Drive Belts



MA-9

- 1. Inspect for cracks, fraying, wear or oil. If necessary, replace with a new one.
- 2. Inspect drive belt deflections by pushing 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	It deflection	Deflection
	Limit	Deflection after adjustment	of new belt
Generator & Power steering oil pump	8 (0.31)	6 - 7 (0.24 - 0.28)	5 - 6 (0.20 - 0.24)
Air conditioning compressor	10 (0.39)	7 - 8 (0.28 - 0.31)	6 - 7 (0.24 - 0.28)
Applied pushing force		98 N (10 kg, 22 lb)	

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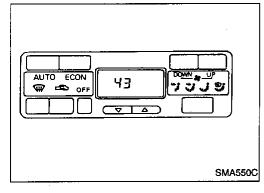
Changing Engine Coolant

WARNING:

To avoid 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.



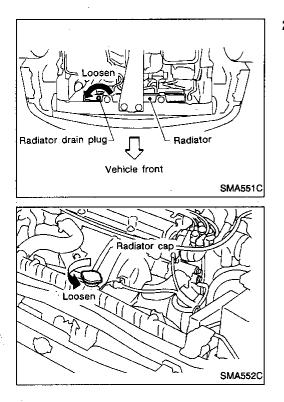
Automatic air conditioning

Perform self-diagnosis step 4 of Automatic Air Conditioning system, referring to the following notes. Refer to HA section ("Self-diagnosis", "TROUBLE DIAGNOSES — Auto Air Conditioning").

- a. Turn ignition switch from "OFF" to "ON".
- b. Within 5 seconds after ignition switch is turned "ON", press
 switch and hold in for at least 5 seconds.
- c. Press 🔿 (HOT) switch 3 times.
- d. Press (DEF) switch 2 times.
- e. Confirm indication of the A/C display shown at left.
- f. Wait 10 seconds before turning ignition switch "OFF". This step is necessary to allow heater water cock to open wide.

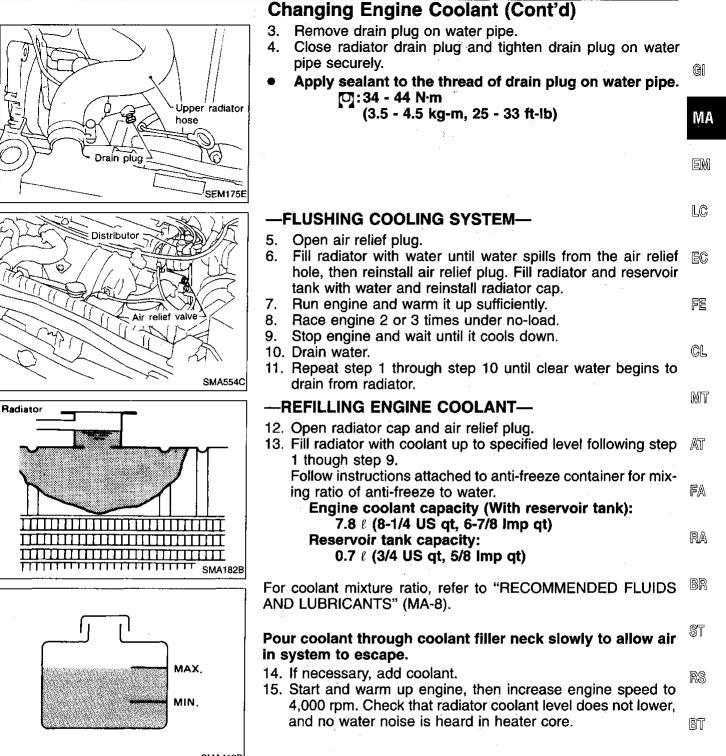
Manual air conditioning

- a. Turn ignition switch "ON" and set temperature controller to maximum hot position.
- b. Wait 10 seconds before turning ignition switch "OFF".



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

ENGINE MAINTENANCE

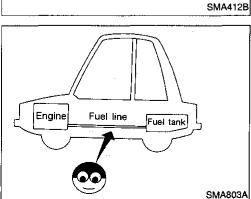


Checking Fuel Lines

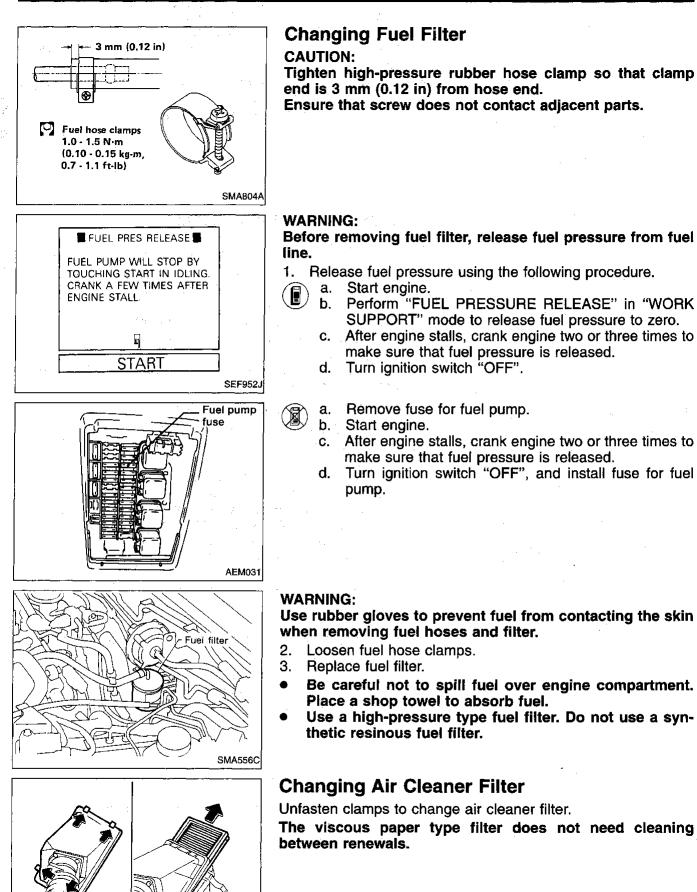
Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, chafing, or deterioration.

1DX

HA

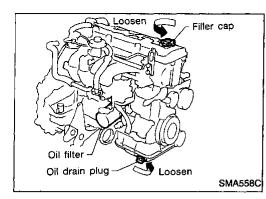


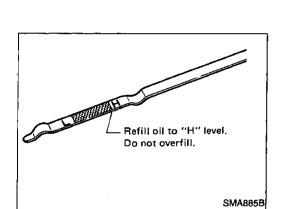
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Changing Engine Oil

WARNING:

Be careful not to burn yourself, as the engine oil is hot. Gl

- 1. Warm up engine, and check for oil leakage from engine components.
- Remove drain plug and oil filler cap.
 Drain oil and refill with new engine oil.

Oil grade: API SG or SH

Viscosity: Refer to MA-8.

Refill oil capacity (Approximately):

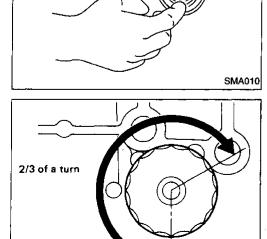
With oil filter change	3.9 ℓ (4-1/8 US qt, 3-3/8 lmp qt)	
Without oil filter change	3.5 ℓ (3-3/4 US qt, 3-1/8 Imp qt)	EĈ

CAUTION:

- Be sure to clean drain plug and install with new washer. Drain plug:
 - [0]:29 39 N·m (3.0 4.0 kg-m, 22 29 ft-lb)
- The refill capacity depends on the oil temperature and drain time; use "Refill oil capacity" values as a reference and be certain to check with the dipstick when changing the oil.
- 4. Check oil level.
- 5. Start engine and check area around drain plug and oil filter for oil leakage.
- for oil leakage.
 6. Run engine for a few minutes, then turn it off. After several minutes, check oil level.

Changing Oil Filter

1. Remove oil filter with a suitable tool. ST WARNING: Be careful not to burn yourself, as the engine and the engine oil are hot. RS 2. Clean oil filter mounting surface on cylinder block. Coat rubber seal of new oil filter with engine oil. BT HA 3. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn. 4. Add engine oil. EL Refer to MA-13. ЮX



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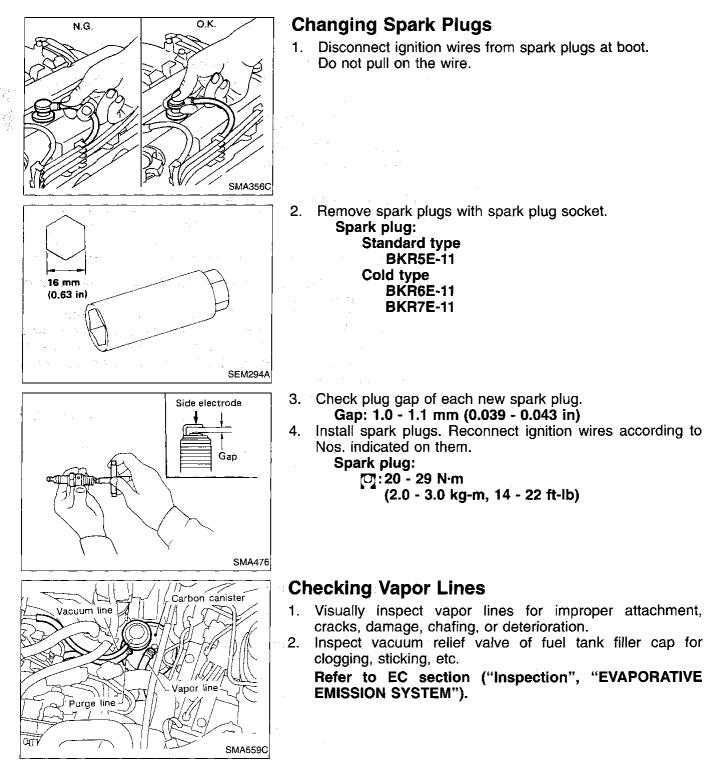
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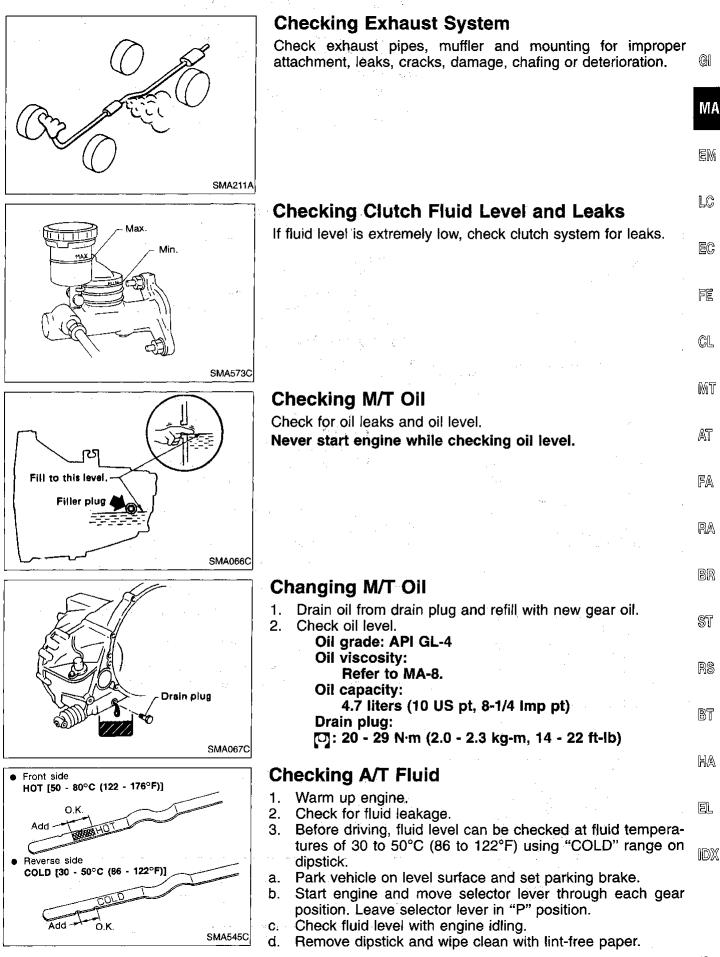
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Checking Valve Clearance

If engine runs with unusual mechanical noise, refer to EM section ("Valve Clearance", "CYLINDER HEAD").

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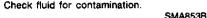
CHASSIS AND BODY MAINTENANCE

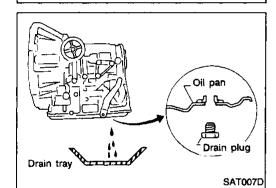
Checking A/T Fluid (Cont'd)

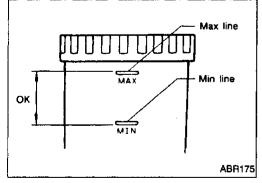
- e. Re-insert dipstick into charging pipe as far as it will go.
- Remove dipstick and note reading. If reading is at low side f. of range, add fluid to the charging pipe.

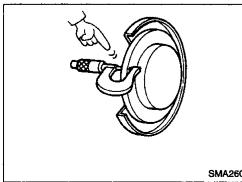
Do not overfill.

- 4. Drive vehicle for approximately 5 minutes in urban areas.
- Re-check fluid level at fluid temperatures of 50 to 80°C. (122 to 176°F) using "HOT" range on dipstick.









- Check fluid condition. 6.
- If fluid is very dark or smells burned, refer to A/T section for а. checking operation of A/T. Flush cooling system after repair of A/T.
- b. If A/T fluid contains frictional material (clutches, bands, etc.), replace radiator and flush cooler line using cleaning solvent and compressed air after repair of A/T. Refer to LC section ("Radiator", "ENGINE COOLING SYSTEM").

Changing A/T Fluid

- Warm up A/T fluid. 1.
- 2. Stop engine.
- Drain A/T fluid from drain plug and refill with new A/T fluid. 3. Always refill same volume with drained fluid. Fluid grade:

Genuine Nissan ATF or equivalent Fluid capacity (With torque converter): 9.4 l (10 US at. 8-1/4 Imp at) Drain plug:

- [J]: 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", MA-16. If fluid is still dirty, repeat step 2. through 5.

Checking Brake Fluid Level and Leaks

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

Checking Brake Lines and Cables

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

Checking Disc Brake

ROTOR

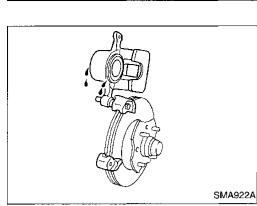
Check condition and thickness.

Unit: mm (in)

	CL25VB	CL9HA
Standard	22.0 (0.866)	9.0 (0.354)
Minimum	20.0 (0.787)	8.0 (0.315)

SMA260A

CHASSIS AND BODY MAINTENANCE



Checking Disc Brake (Cont'd) CALIPER

Check operation and for leakage.





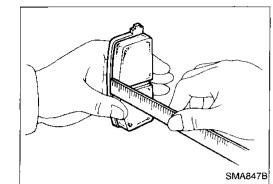
BM



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MT

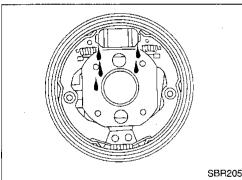
Unit: mm (in)

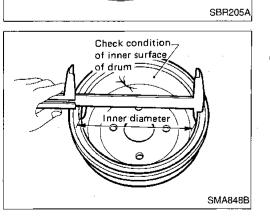


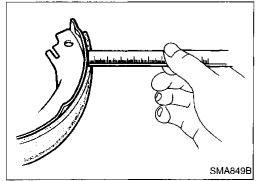
Check for	wear	or damag	e.
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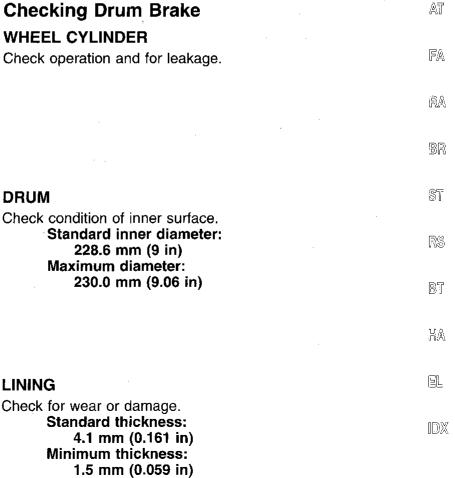
PAD

	CL25VB	CL9HA	
Standard			_ [7
MT model	11.0 (0.433)	10.0 (0.394)	
A/T model	10.0 (0.394)	1	C
Minimum	2.0 (0.079)	1.5 (0.059)	_



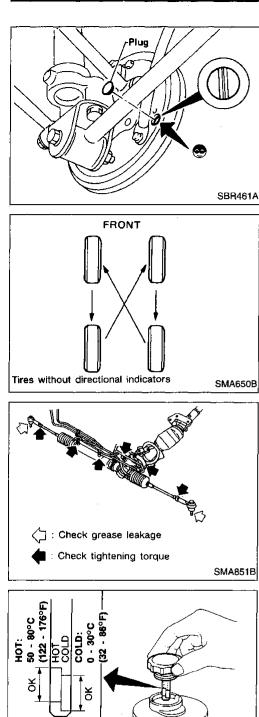






MA-17

CHASSIS AND BODY MAINTENANCE



Checking Drum Brake (Cont'd) TEMPORARY METHOD FOR CHECKING LINING WEAR

Remove inspection hole plug and check for lining wear.

Balancing Wheels

 Adjust wheel balance using road wheel center.
 Wheel balance (Maximum allowable unbalance): Refer to MA-20.

Tire Rotation

- Do not include the T-type spare tire when rotating the tires. Wheel nuts:
 - [0]: 98 118 N·m
 - (10 12 kg-m, 72 87 ft-lb)

Checking Steering Gear and Linkage

STEERING GEAR

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

STEERING LINKAGE

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

Checking Power Steering Fluid and Lines

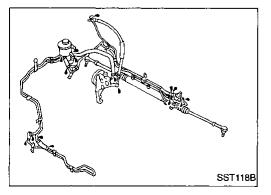
Check fluid level with engine off.

Check fluid level with dipstick on reservoir cap. Use "HOT" range at fluid temperatures of 50 to 80°C (122 to 176°F). Use "COLD" range at fluid temperatures of 0 to 30°C (32 to 86°F).

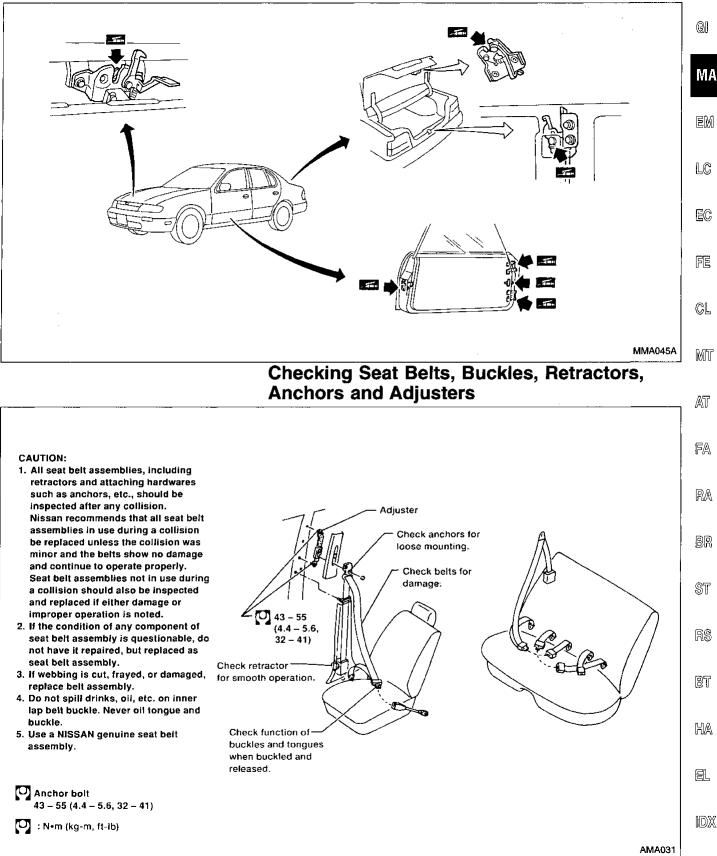
CAUTION:

SST280B

- Do not overfill.
- Recommended fluid is type DEXRON[™] II or equivalent.
- Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration.



Lubricating Locks, Hinges and Hood Latches



Engine Maintenance Spark plug

INSPECTION AND ADJUSTMENT

Drive belt deflection

			Unit: mm (in)	
	Used belt deflection		Deflection	
	Limit	Deflection after adjustment	Deflection of new belt	
Generator & Power steering oil pump	8 (0.31)	6 - 7 (0.24 - 0.28)	5 - 6 (0.20 - 0.24)	
Air condition- ing compres- sor	10 (0.39)	7 - 8 (0.28 - 0.31)	6 - 7 (0.24 - 0.28)	
Applied push- ing force	98 N (10 kg, 22 lb)			

Standard type BKR5E-11 Cold type BKR6E-11 BKR7E-11 BKR7E-11 Plug gap 1.0 - 1.1 mm (0.039 - 0.043 in)

Chassis	and	Body	Maintenance

INSPECTION AND ADJUSTMENT

Brake

Disc brak	e n	nm (in)	
Pad			
S	tandard thickness		
	CL25VB		M/T model: 11.0 (0.433) A/T model: 10.0 (0.394)
_	CL9HA		10.0 (0.394)
М	linimum thickness		
	CL25VB		2.0 (0.079)
	CL9HA		1.5 (0.059)
Rotor			
St	tandard thickness		
	CL25VB		22.0 (0.866)
	CL9HA		9.0 (0.354)
м	inimum thickness		
	CL25VB		20.0 (0.787)
	CL9HA		8.0 (0.315)
Drum brak	ke n	nm (in)	
Lining		Ì	
Standard thickness		4.1 (0.161)	
Minimum thickness		1.5 (0.059)	
Drum			
St	andard inner diamete	r	228.6 (9)
M	aximum inner diamete	ər	230.0 (9.06)
			÷

Wheel balance

Maximum allowable unbalance	Dynamic (at i flange)		10 (0.35) (One side)
		g (oz)	
	Static	g (oz)	20 (0.71)