SECTION MA

CONTENTS

General maintenance includes those items which should be checked during the normal day-to-day operation of the vehicle. They are essential if the vehicle is to continue operating properly. The owners can perform the checks and inspections themselves or they can have their INFINITI dealers do them.

Item	Reference page
OUTSIDE THE VEHICLE The maintenance items listed here should be performed from time to time, unless otherwise specified.	
Tires Check the pressure with a gauge periodically , 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 12,000 km (7,500 miles).	MA-15
Wheel alignment and balance If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.	MA-15 FA-9
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 ensure, that all latches lock securely. Lubricate hinges and latches 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-19
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.	
Lights Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.	—
Warning lights and buzzers/chimes Make sure that all warning lights 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 conditioner.	—
Steering wheel Check that it has the specified free play. Be sure to check for changes in the steering condition, such as excessive free 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 ensure they operate smoothly and that all latches lock securely in every position. Check that the head restraints move up and down smoothly and that the locks (if so 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-19
Brakes Check that the brake does not pull the vehicle to one side when applied.	—
Brake pedal 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 certain to keep floor mats away from the pedal.	BR-8 BR-11
Parking brake Check that the pedal has the proper travel and confirm that your vehicle is held securely on a fairly steep hill with only the parking brake applied.	BR-24

Item	Reference page
Automatic transmission "Park position" mechanism Check that the lock release button on the selector 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-10
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, rot or loose connections.	—
Brake fluid level Make sure that the brake fluid level is between the "MAX" and "MIN" lines on the reservoir.	MA-15
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-8
Engine oil level Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-12
Power steering fluid level and lines Check the level when the fluid is cold and the engine is turned off. Check the lines for proper attachment, leaks, cracks, etc.	MA-17
Automatic transmission fluid level Check the level on the dipstick after putting the selector lever in "P" with the engine idling.	MA-14
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-14
Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt can easily accumulate.	—
Fluid leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or gasoline fumes are evident, check for the cause and correct it immediately.	—
Full-active suspension fluid Check the level when the fluid is hot and the engine is running, check the lines for improper attachment, leaks, cracks, etc.	MA-18
Traction control system fluid level Make sure that the fluid level is between the "MAX" and "MIN" lines on the reservoir.	BR-60

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 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.
- 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.

SCHEDULE 2

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

Schedule 1

Abbreviations: R = Replace I = Inspect. Correct or replace as necessary. [ ]: Perform service at the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL																
Perform at number of miles, kilometers or months, whichever comes first	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60	Reference page
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)	
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	
EMISSION CONTROL SYSTEM MAINTENANCE																		
Service "A"																		
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MA-11
Engine oil filter (Use part No. 15208-60U00 or equivalent)		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MA-12
Service "E"																		
Air cleaner filter	See NOTE (1)								[R]								[R]	MA-11
Service "F"																		
Vapor lines									I*								I*	MA-13
Fuel lines									I*								I*	MA-10
Fuel filter	See NOTE (2)*																	MA-11
Service "G"																		
Drive belts	See NOTE (3)																I*	MA-8
Service "J"																		
Engine coolant	See NOTE (4)																R*	MA-9
Service "H"																		
Spark plugs (PLATINUM-TIPPED type)																	[R]	MA-12
CHASSIS AND BODY MAINTENANCE																		
Service "B"																		
Brake pads & discs			I		I		I		I		I		I		I		I	MA-16
Steering gear & linkage, axle & suspension parts			I		I		I		I		I		I		I		I	MA-16, FA-6, RA-5
Steering linkage ball joints & front suspension ball joints			I		I		I		I		I		I		I		I	MA-16, FA-6
SUPER HICAS linkage			I		I		I		I		I		I		I		I	MA-17
Exhaust system			I		I		I		I		I		I		I		I	MA-14
Service "D"																		
Brake lines & cables					I				I				I				I	MA-15
Automatic transmission oil & differential gear oil	See NOTE (5)				I				I				I				I	MA-14
Full-Active suspension fluid					I				I				I				I	MA-17
Service "J"																		
Full-Active suspension fluid																	[R]	MA-17
Air bag system	See NOTE (6)																	BF-47

NOTE:
(1) If 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 clogged. In such an event, replace them immediately.
(3) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.
(4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
(5) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months.
(6) Inspect the air bag system 10 years after the date of manufacture as noted on the F.M.V.S.S. certification label.
(7) 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.

Schedule 2

Abbreviations: R = Replace I = Inspect. Correct or replace as necessary. [ ]: Perform service at the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference page
Perform at number of miles, kilometers or months, whichever comes first	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60	
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)	
	Months	6	12	18	24	30	36	42	48	
EMISSION CONTROL SYSTEM MAINTENANCE										
Service "A"										
Engine oil		R	R	R	R	R	R	R	R	MA-11
Service "C"										
Engine oil filters (Use Part No. 15208-60U00 or equivalent)			R		R		R		R	MA-12
Service "E"										
Air cleaner filter					[R]				[R]	MA-11
Service "F"										
Vapor lines					I*				I*	MA-13
Fuel lines					I*				I*	MA-10
Fuel filter	See NOTE (1)*									MA-11
Service "G"										
Drive belts	See NOTE (2)								I*	MA-8
Service "J"										
Engine coolant	See NOTE (3)								R*	MA-9
Service "H"										
Spark plugs (PLATINUM-TIPPED Type)									[R]	MA-12
CHASSIS AND BODY MAINTENANCE										
Service "D"										
Brake lines & cables			I		I		I		I	MA-15
Brake pads & discs			I		I		I		I	MA-16
Automatic transmission oil & differential gear oil			I		I		I		I	MA-14
Exhaust system					I				I	MA-14
Full-Active suspension fluid			I		I		I		I	MA-17
Service "F"										
Steering gear linkage axle & suspension parts					I				I	MA-16, FA-6, RA-5
SUPER HICAS linkage					I				I	MA-17
Service "J"										
Full-Active suspension fluid									[R]	MA-17
Air bag system	See NOTE (4)									BF-47

NOTE: (1) 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 clogged. In such an event, replace them immediately.

(2) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.

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

(4) Inspect the air bag system 10 years after the date of manufacture as noted on the F.M.V.S.S. certification label.

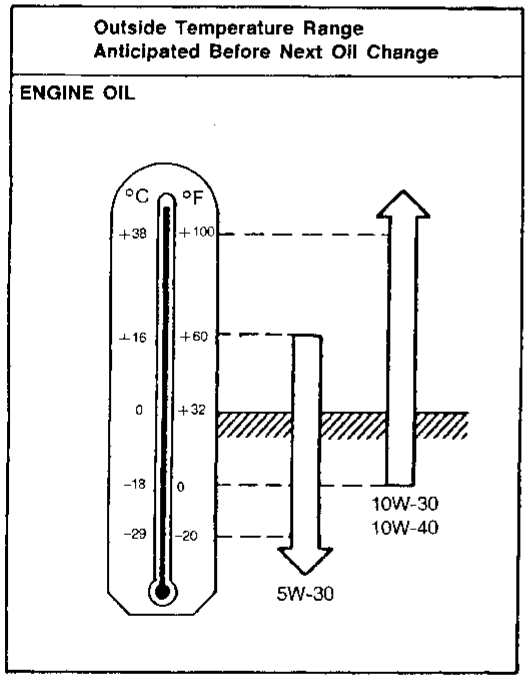
(5) Maintenance items and intervals with "*" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.

Fluids and Lubricants

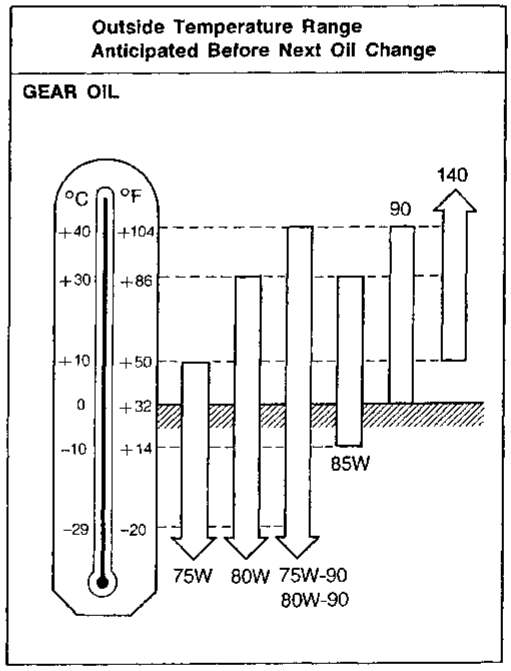
	Capacity (Approximate)			Recommended fluids and lubricants
	US measure	Imp measure	Liter	
Engine oil (Refill)				
With oil filter	6-3/8 qt	5-1/4 qt	6.0	Energy Conserving Oils of API SG*2, *3
Without oil filter	5-7/8 qt	4-7/8 qt	5.6	
Cooling system (With reservoir)	10-7/8 qt	9-1/8 qt	10.3	Anti-freeze coolant (Ethylene glycol base)
Differential gear oil	3-1/8 pt	2-5/8 pt	1.5	API GL-5*2
Automatic transmission fluid	11-1/8 qt	9-1/4 qt	10.5	Genuine Nissan ATF*1 or equivalent Type DEXRON™ II
Full-Active suspension fluid	6 qt	5 qt	5.7	Genuine "Fluid-A Active Suspension"
Power steering fluid	—	—	—	Type DEXRON™ II or equivalent
Brake and TCS fluid	—	—	—	Genuine Brake Fluid*1 or equivalent DOT 3 (US FMVSS No. 116)
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)

*1: Available in mainland U.S.A. through your INFINITI dealer.
*2: For further details, see "Recommended 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.

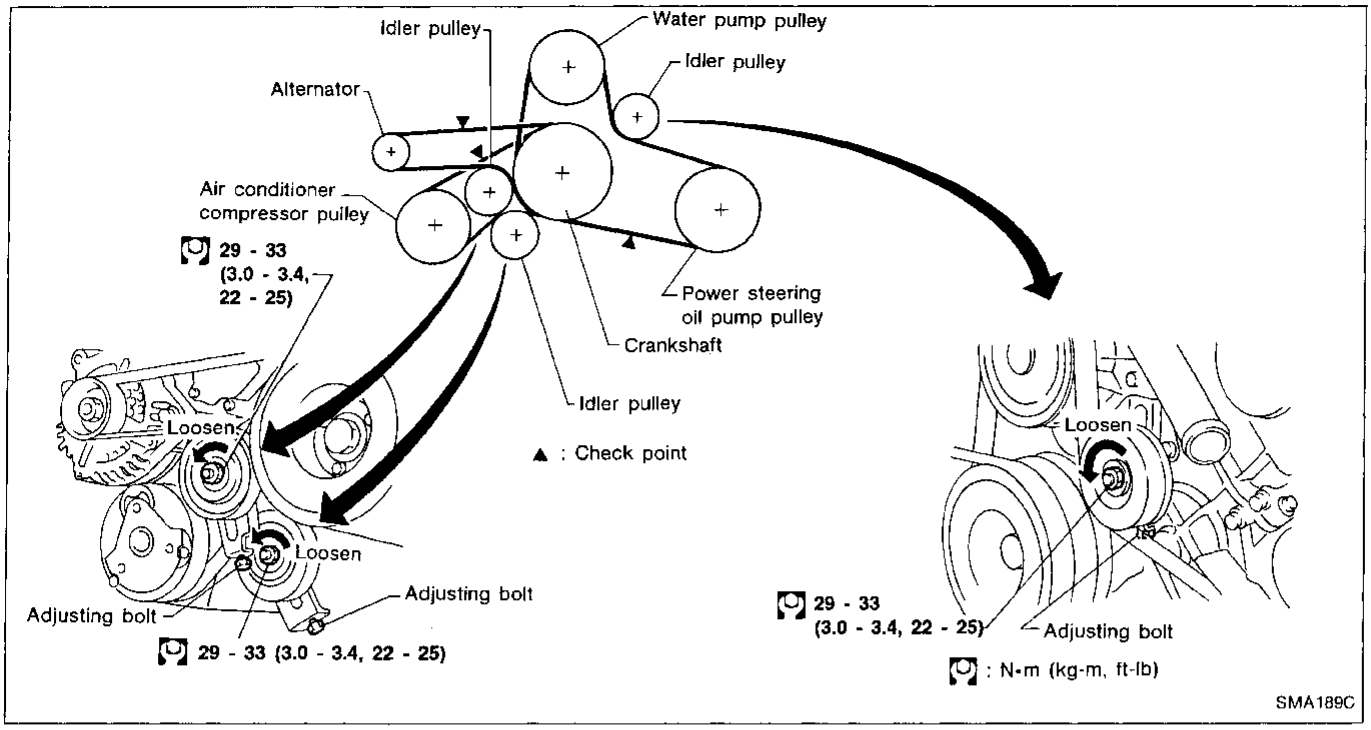
SAE Viscosity Number



10W-30 is preferable for ambient temperatures above –18°C (0°F). 20W-40 and 20W-50 are usable, for ambient temperatures above 10°C (50°F) for all seasons.



75W-90 for transmission and 80W-90 for differential gear are preferable for ambient temperatures below 40°C (104°F).



Checking Drive Belts

1. Inspect for cracks, fraying, wear or oil adhesion. If necessary, replace with a new one.
2. Inspect drive belt deflections by pushing on each check point between pulleys as shown above.

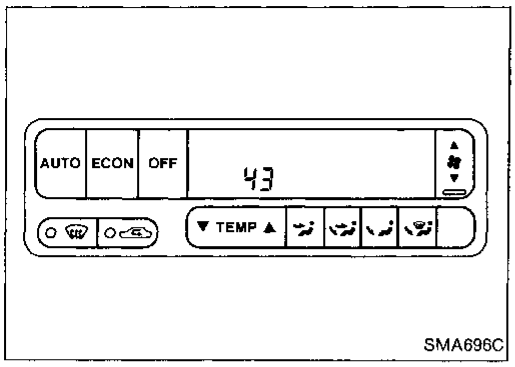
Adjust if belt deflections exceed the limit.

Belt deflection:

Unit: mm (in)

	Used belt deflection		Deflection of new belt
	Limit	Deflection after adjustment	
Alternator	14 (0.55)	9 - 10 (0.35 - 0.39)	7.5 - 8.5 (0.295 - 0.335)
Air conditioner compressor	12 (0.47)	8.5 - 9.5 (0.335 - 0.374)	7.5 - 8.5 (0.295 - 0.335)
Power steering oil pump			
Without SUPER HICAS or FULL-ACTIVE SUSPENSION	14 (0.55)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)
With SUPER HICAS or FULL-ACTIVE SUSPENSION	13 (0.51)	7 - 8 (0.28 - 0.31)	5.5 - 6.5 (0.217 - 0.256)
Applied pushing force	98 N (10 kg, 22 lb)		

Inspect drive belt deflections when engine is cold.



Changing Engine Coolant

WARNING:

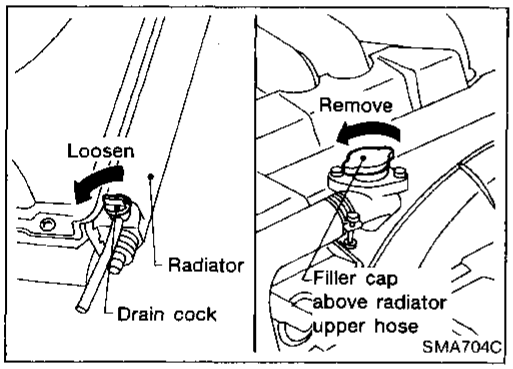
To avoid being scalded, never change the coolant when the engine is hot.

Wrap a thick cloth around cap and carefully remove the cap by first turning it a quarter of a turn to release built-up pressure and then turn the cap all the way.

1. Perform self-diagnosis step 4 of Automatic Air Conditioner system, referring to the following notes. (Refer to "TROUBLE DIAGNOSES" in HA section.)
1) Turn ignition switch from "OFF" to "ON".
2) Within 10 seconds after ignition switch is turned "ON", press OFF switch for at least 5 seconds.
3) Press ▲ (HOT) switch 3 times.
4) Press (DEF) switch 2 times.
5) Confirm indication of the A/C display shown at left.
6) Wait 10 seconds before turning ignition switch off.
This step is necessary to allow heater cock to open wide.

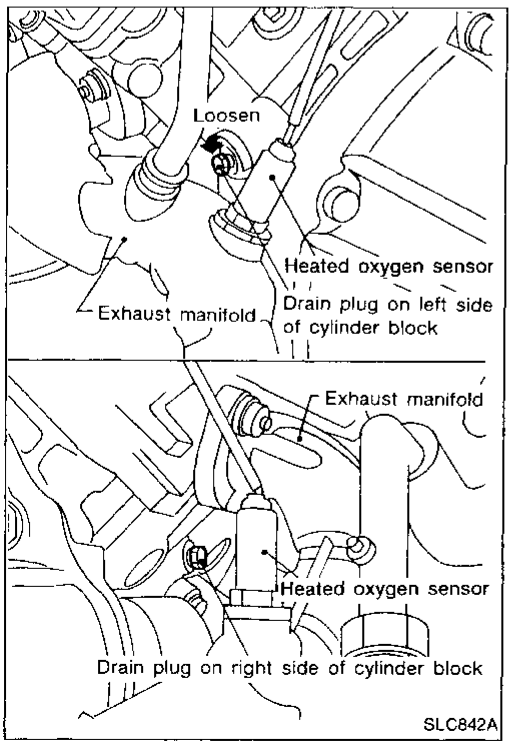
CAUTION:

Do not open the radiator cap while changing engine coolant. Fill the radiator only from the filler cap above radiator upper hose with radiator cap closed.



2. Open drain cock at the bottom of radiator, and remove filler cap above radiator upper hose.

- **Be careful not to allow coolant to contact drive belts.**

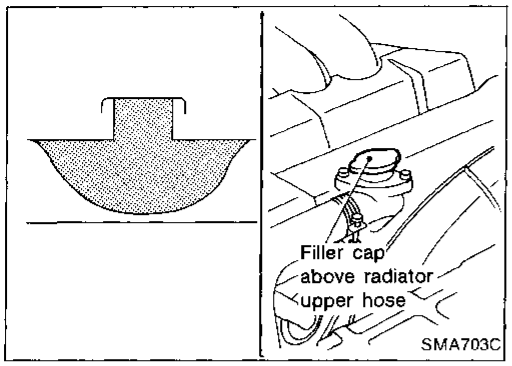


3. Open drain plugs on both sides of cylinder block.
4. Close drain cock and tighten drain plug securely.
5. Fill radiator with water.
6. Perform self-diagnosis step 4 of Automatic Air Conditioner system, referring to the following notes. (Refer to "TROUBLE DIAGNOSES" in HA section.)
1) Turn ignition switch from "OFF" to "START".
2) Within 10 seconds after starting engine , press OFF switch for at least 5 seconds.
3) Press ▲ (HOT) switch 3 times.
4) Press (DEF) switch 2 times.
5) Confirm indication of the A/C display shown at left above.
6) Wait 10 seconds and warm up engine sufficiently.
This step is necessary to allow heater water cock to open wide.
7. Stop engine and wait until it cools down.
8. Repeat step 2 through step 7 until clear water begins to drain from radiator.
9. Drain water.

- **Apply sealant to the thread of drain plug.**

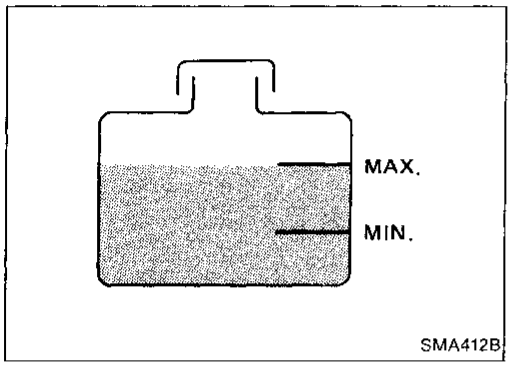
: 15 - 25 N·m
(1.5 - 2.5 kg-m, 11 - 18 ft-lb)

Changing Engine Coolant (Cont'd)



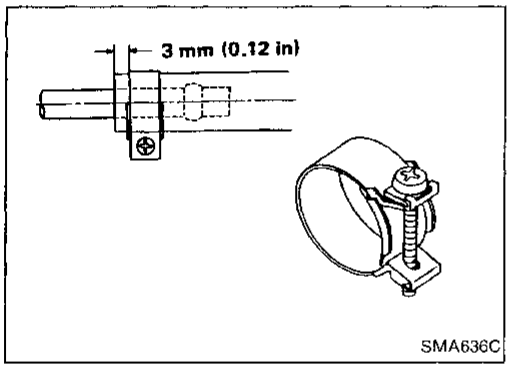
10. Fill radiator with coolant up to specified level.
    Follow instructions attached to anti-freeze container for mixing ratio of anti-freeze to water.
    Coolant capacity (With reservoir tank):
    10.3 ℓ (10-7/8 US qt, 9-1/8 Imp qt)
    Reservoir tank:
    0.7 ℓ (3/4 US qt, 5/8 Imp qt)

Pour coolant through coolant filler neck slowly to allow air in system to escape.



11. Remove reservoir tank, drain coolant, then clean reservoir tank.
12. Fill reservoir tank with coolant up to "MAX" level.
13. Repeat step 6.
14. Stop engine and cool it down, then add coolant as necessary.

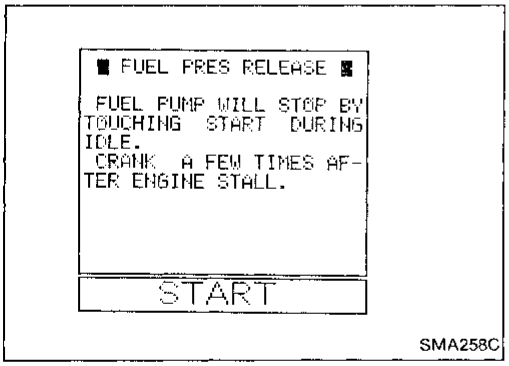
Checking Fuel Lines



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

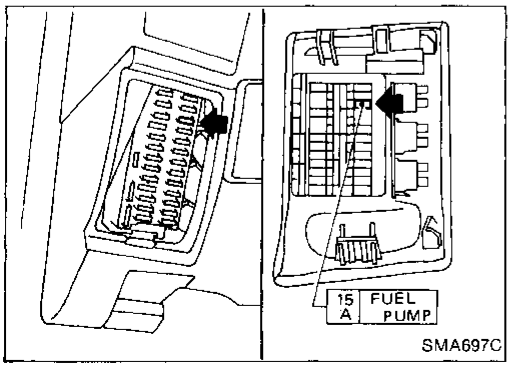
CAUTION:
Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.
Tightening torque specifications are the same for all rubber hose clamps.
Ensure that screw does not contact adjacent parts.

Changing Fuel Filter



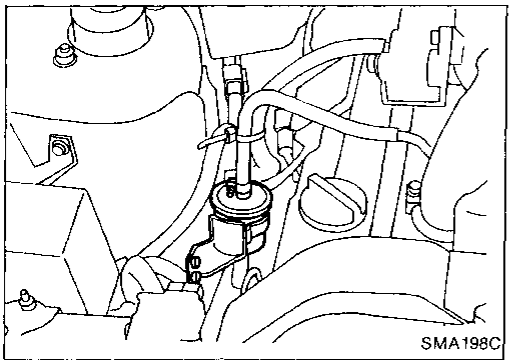
WARNING:
Before removing fuel filter, release fuel pressure from fuel line to eliminate danger.

1. Perform "FUEL PRESSURE RELEASE" in "WORK SUPPORT" mode and release fuel pressure to zero.
2. Turn ignition switch off.



1. Remove fuse for fuel pump and start engine.
2. After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
   Then turn ignition switch off and reinstall fuse for fuel pump.

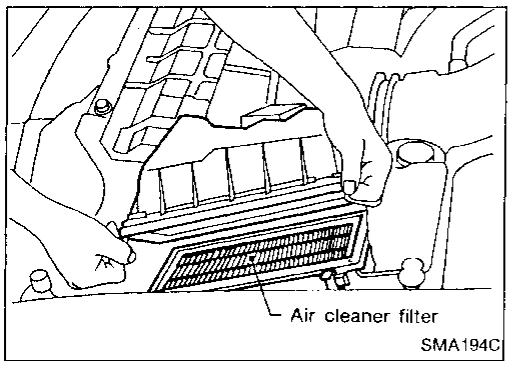
Changing Fuel Filter (Cont'd)


SMA198C

3. Loosen fuel hose clamps.
4. Replace fuel filter.

- **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 resinous fuel filter.**
- **When tightening fuel hose clamps, refer to "Checking Fuel Lines".**

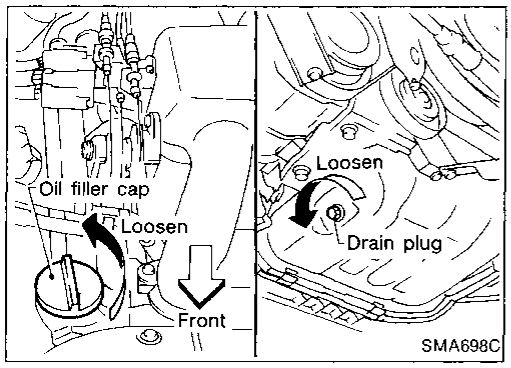
Changing Air Cleaner Filter



SMA194C

The viscous paper type filter does not need cleaning between renewals.

Changing Engine Oil



SMA698C

WARNING:

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

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

Oil grade: API SG

Viscosity:

See "RECOMMENDED FLUIDS AND LUBRICANTS". (MA-7)

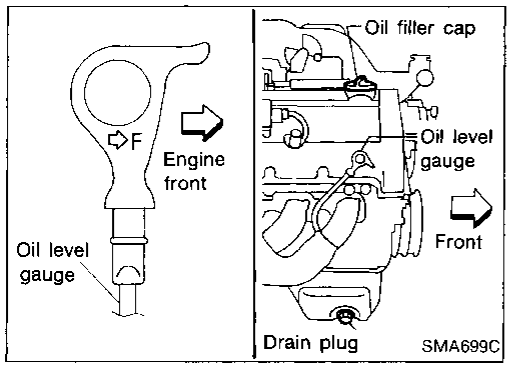
Refill oil capacity (Approximately):

With oil filter 6.0 ℓ (6-3/8 US qt, 5-1/4 Imp qt)

Without oil filter 5.6 ℓ (5-7/8 US qt, 4-7/8 Imp qt)

CAUTION:

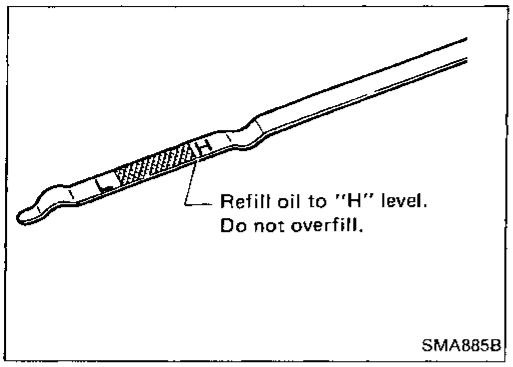
- **Be sure to clean drain plug and install with new washer.**
  Drain plug:
  : 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 ft-lb)
- **The refill capacity changes depending on the oil temperature and drain time, use these values as a reference and be certain to check with the dipstick when changing the oil.**



SMA699C

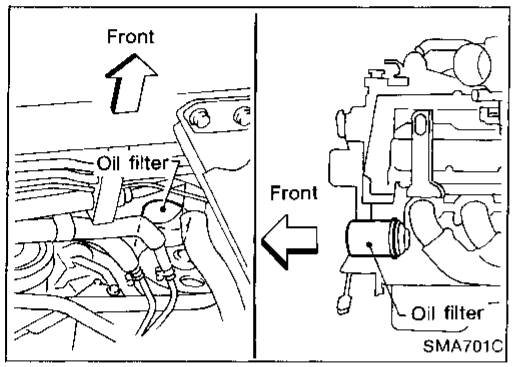
- **Make sure direction of oil level gauge is correct before checking oil level.**

Changing Engine Oil (Cont'd)



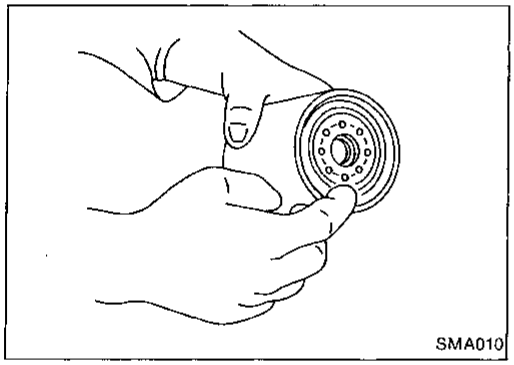
4. Check oil level.
5. Start engine and check area around drain plug and oil filter for oil leakage.
6. Run engine for a few minutes, then turn it off. After several minutes, check oil level.

Changing Oil Filter

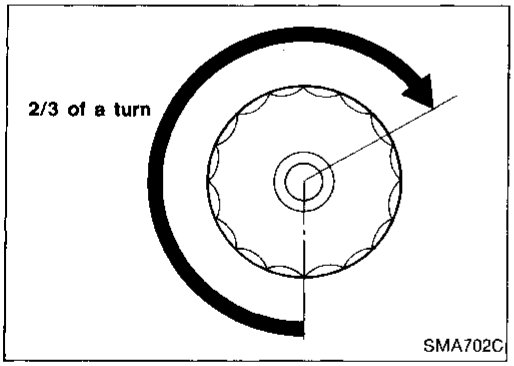


1. Remove oil filter from underneath the engine compartment with a suitable tool.

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



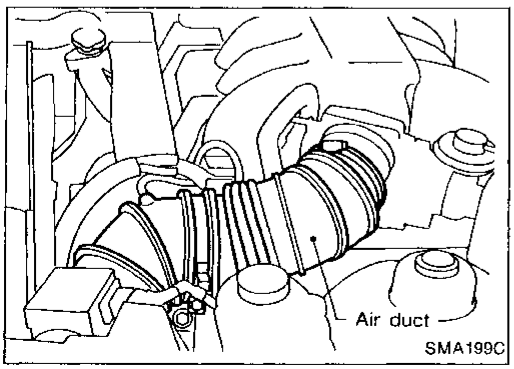
2. Before installing new oil filter, clean the oil filter mounting surface on cylinder block, and coat the rubber seal of oil filter with a little engine oil.



3. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn.
4. Add engine oil.

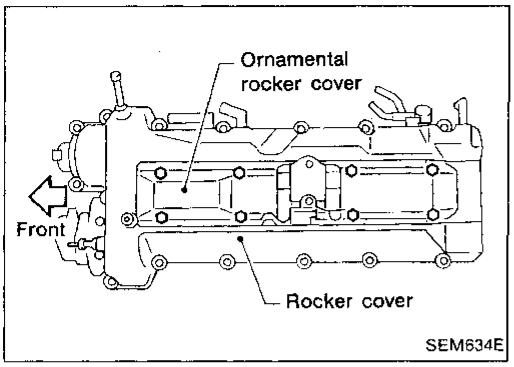
Refer to Changing Engine Oil (MA-11).

Changing Spark Plugs

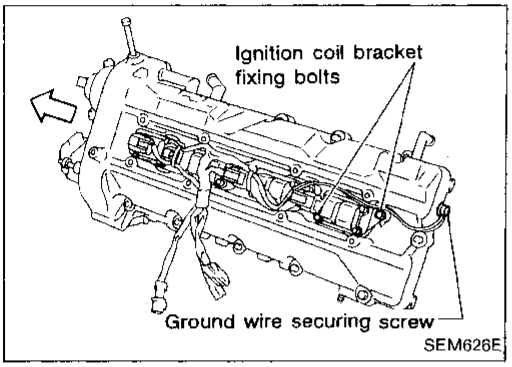


1. Remove air duct (left bank only).
2. Disconnect power transistor connectors.

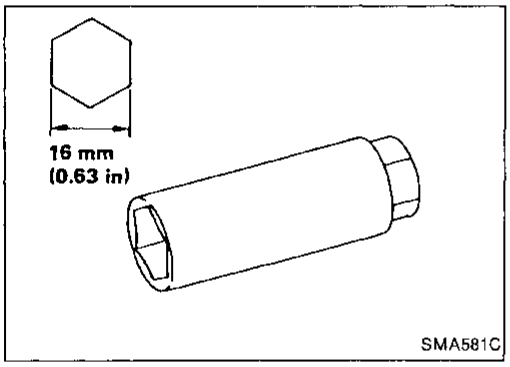
Changing Spark Plugs (Cont'd)



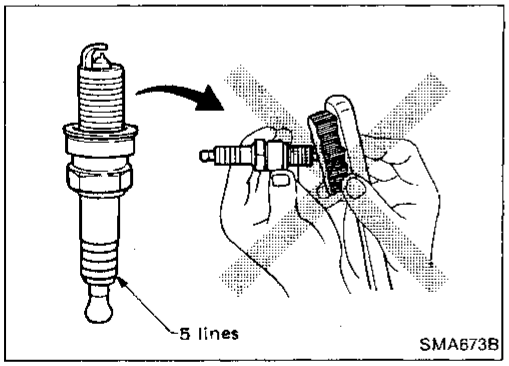
3. Remove ornament cover.



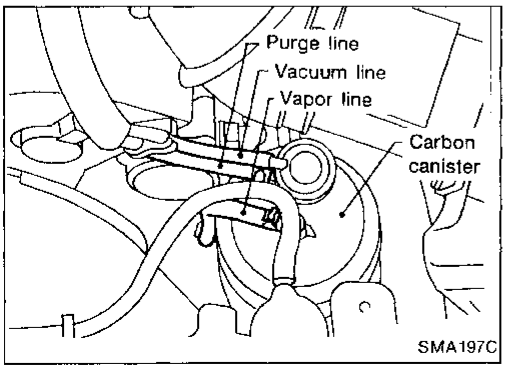
4. Disconnect harness connector between ignition coil and power transistor.
5. Remove ignition coil bracket fixing bolts and pull out this bracket with ignition coils.



6. Remove spark plugs with suitable spark plug wrench.
   Spark plug (Platinum-tipped type):
   Standard type **PFR5G-11**
   Cold type **PFR6G-11** / **PFR7G-11**
   : 20 - 29 N·m
   (2.0 - 3.0 kg-m, 14 - 22 ft-lb)

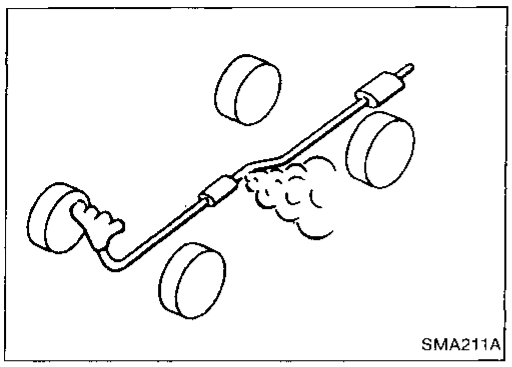


- **Checking and adjusting plug gap are not required between renewals.**
- **Never use a wire brush for cleaning.**
- **If plug tip is covered with carbon, spark plug cleaner can be used.**
  Cleaner air pressure:
  Less than 588 kPa (6 kg/cm², 85 psi)
  Cleaning time:
  Less than 20 seconds



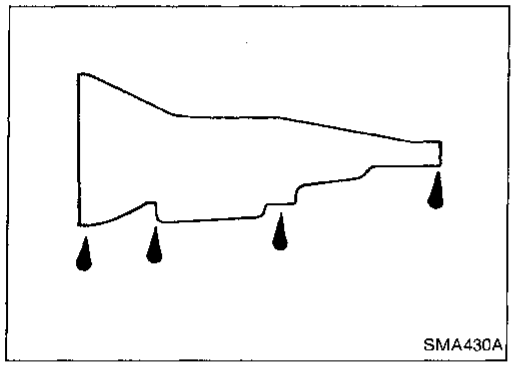
Checking Vapor Lines

1. Visually inspect vapor lines for improper attachment cracks, damage, loose connections, chafing and deterioration.
2. Inspect vacuum relief valve of fuel tank filler cap for clogging, sticking, etc.
   Refer to EVAPORATIVE EMISSION SYSTEM in EF & EC section.


SMA211A

Checking Exhaust System

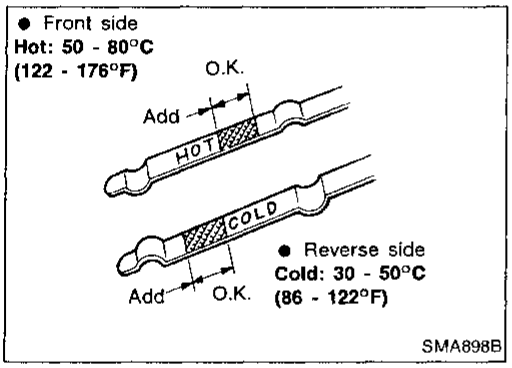
Check exhaust pipes, muffler and mounting for improper attachment and for leaks, cracks, damage, loose connections, chafing and deterioration.


SMA430A

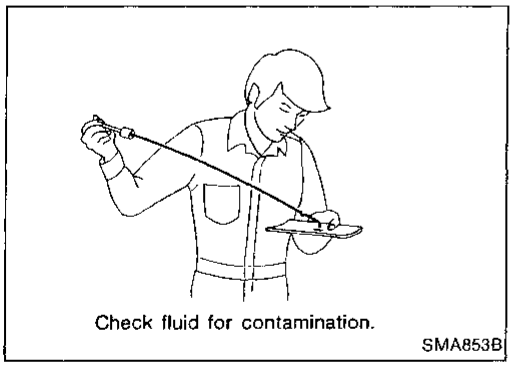
Checking A/T Fluid

1. Check for fluid leakage and fluid level.
   Fluid level should be checked using "HOT" range on dipstick at fluid temperatures of 50 to 80°C (122 to 176°F) after vehicle has been driven approximately 5 minutes in urban areas after engine is warmed up. But it can be checked at fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on dipstick for reference after engine is warmed up and before driving. However, fluid level must be rechecked using "HOT" range.
1) Park vehicle on level surface and set parking brake.
2) Start engine and then move selector lever through each gear range, ending in "P".
3) Check fluid level with engine idling.
4) Remove dipstick and wipe it clean with lint-free paper.
5) Reinsert dipstick into charging pipe as far as it will go.
6) Remove dipstick and note reading. If level is at low side of either range, add fluid to the charging pipe.

Do not overfill.



SMA898B

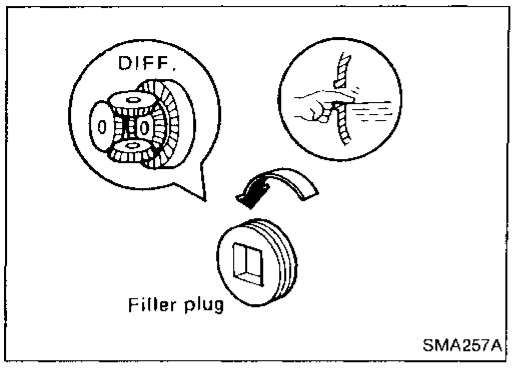

Check fluid for contamination.
SMA853B

2. Check fluid condition.
   Check fluid for contamination. If fluid is very dark or smells burned, or contains frictional material (clutches, band, etc.), check operation of A/T.
   Refer to section AT for checking operation of A/T.

Changing A/T Fluid

1. Drain fluid by removing drain plug.
2. Refill with fluid and then check fluid level.
   Oil capacity:
   10.5 ℓ (11-1/8 US qt, 9-1/4 Imp qt)
3. Tighten drain plug
   : 29 - 39 N·m (3 - 4 kg-m, 22 - 29 ft-lb)

Use genuine Nissan ATF or equivalent type DEXRON™II.



Checking Differential Gear Oil

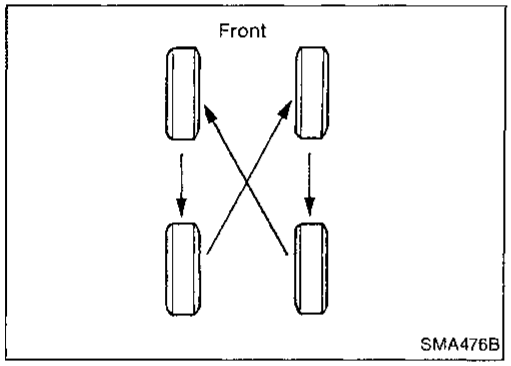
1. Check for oil leakage and oil level.
   Filler plug:
   [O]: 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb)

Changing Differential Gear Oil

1. Drain oil and refill with new gear oil.
2. Check oil level.
   Oil capacity: 1.5 ℓ (3-1/8 US pt, 2-5/8 Imp pt)
   [O]: Drain plug: 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb)

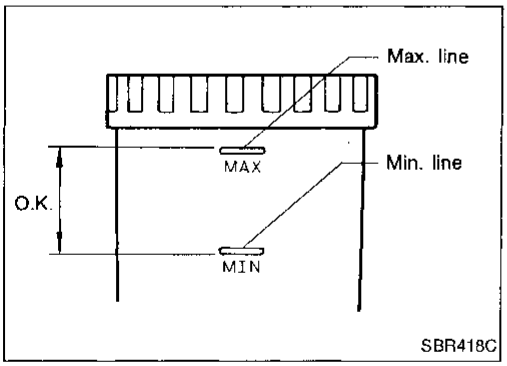
Balancing Wheels

- Adjust wheel balance using road wheel center.
  Wheel balance (Maximum allowable unbalance):
  Refer to "Chassis and Body Maintenance" in SDS. (MA-20)



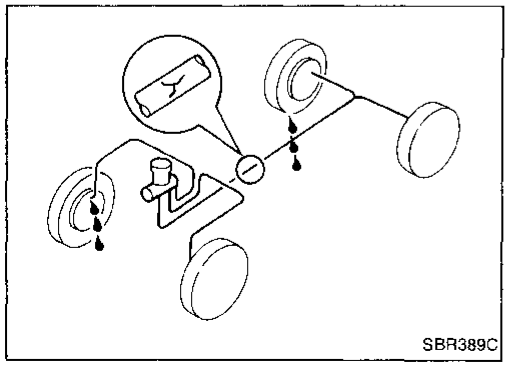
Tire Rotation

- **Do not include the T-type spare tire when rotating the tires.**
  Wheel nuts:
  [O]: 98 - 118 N·m (10.0 - 12.0 kg-m, 72 - 87 ft-lb)



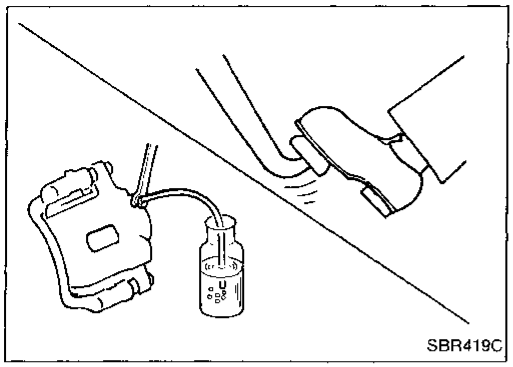
Checking Brake Fluid Level and Leaks

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



Checking Brake Lines and Cables

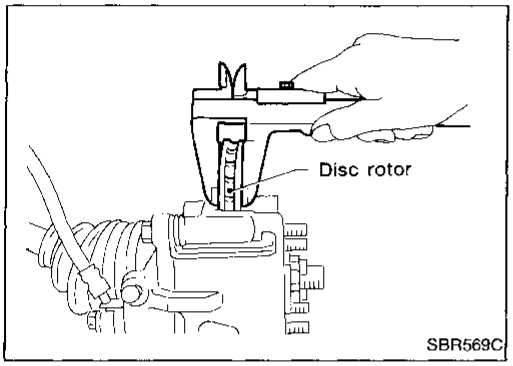
- Check brake fluid lines and parking brake cables for improper attachment and for leaks, chafing, abrasions, deterioration, etc.


SBR419C

Changing Brake Fluid

1. Drain brake fluid from each air bleeder valve.
2. Refill until new brake fluid comes out from each air bleeder valve.
   Use same procedure as in bleeding hydraulic system to refill brake fluid.
   Refer to section "CHECK AND ADJUSTMENT" in BR section.

- **Refill with recommended brake fluid "DOT 3".**
- **Never reuse drained brake fluid.**
- **Be careful not to splash brake fluid on painted areas.**



SBR569C

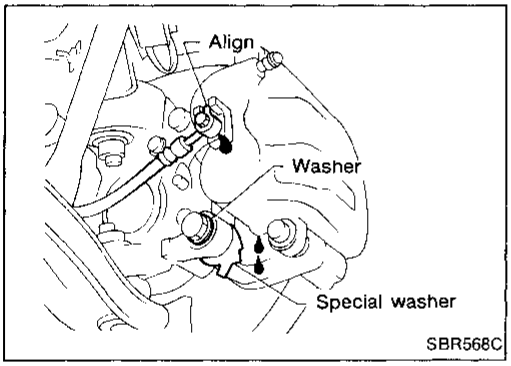
Checking Disc Brake

ROTOR

- Check condition and thickness.

Unit: mm (in)

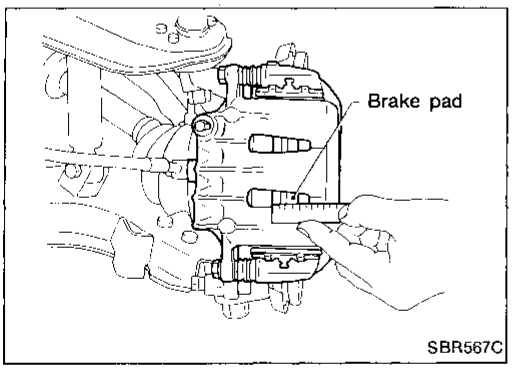
	Front	Rear
Standard thickness	28.0 (1.102)	9.0 (0.354)
Minimum thickness	26.0 (1.024)	8.0 (0.315)



SBR568C

CALIPER

- Check operation and for leakage.



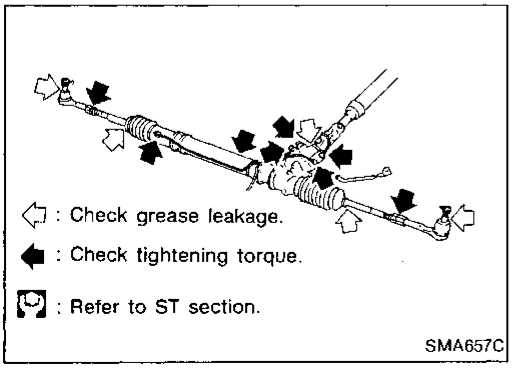
SBR567C

PAD

- Check pad thickness from inspection hole.
- Check for uneven wear or damage.

Unit: mm (in)

	Front	Rear
Standard thickness	9.5 (0.374)	10.0 (0.394)
Minimum thickness	2.0 (0.079)	



SMA657C

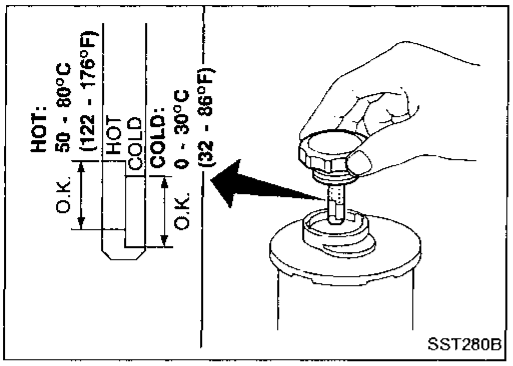
Checking Steering Gear and Linkage

STEERING GEAR

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

STEERING LINKAGE

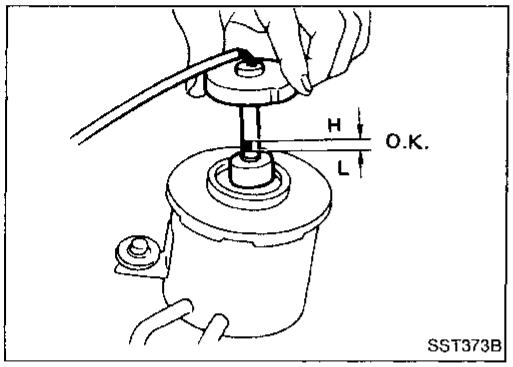
- Check ball joint, dust cover and other component parts for looseness, wear, damage or grease leakage.



Checking Power Steering Fluid and Lines

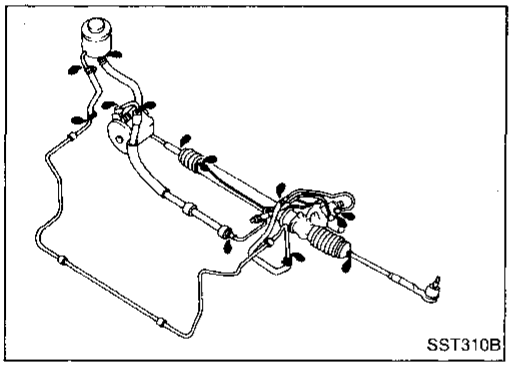
- Checking fluid level (Without SUPER HICAS system)
  Fluid level should be checked using "HOT" range on dipstick at fluid temperatures of 50 to 80°C (122 to 176°F) or using "COLD" range on dipstick at fluid temperatures of 0 to 30°C (32 to 86°F).

CAUTION:
Do not overfill.
Recommended fluid is Automatic Transmission Fluid type DEXRON™II or equivalent.

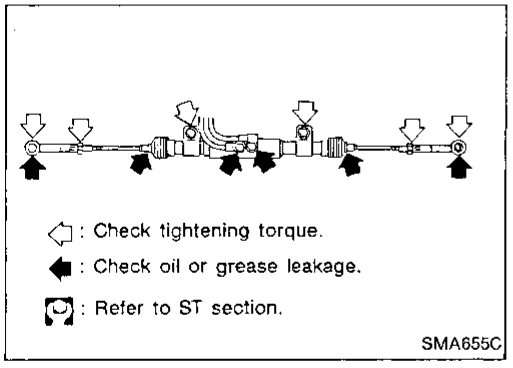


- Checking fluid level (With SUPER HICAS system)
  Maintain the fluid level so that the fluid level (lower surface of the float) is maintained between the "L" and "H" marks on the gauge rod. The fluid level should be checked when the engine is stopped and the fluid temperature is between 50 and 80°C (122 and 176°F).

CAUTION:
Do not overfill.
Recommended fluid is Automatic Transmission Fluid type DEXRON™II or equivalent.

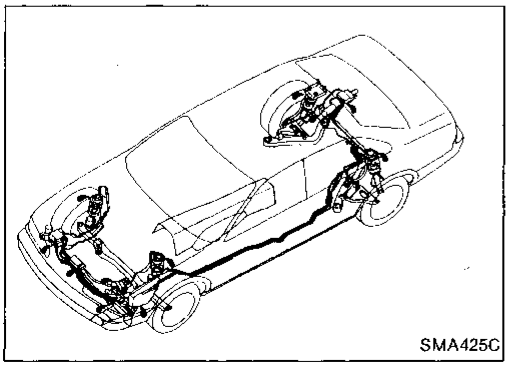


- Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.



Checking SUPER HICAS Linkage (With SUPER HICAS system)

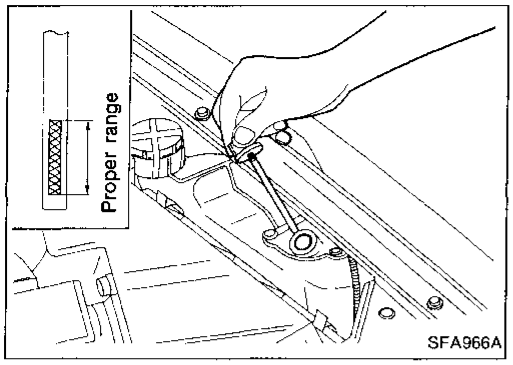
- Check power cylinder and linkage for damage, looseness and leakage of oil or grease.



Checking FULL-ACTIVE SUSPENSION Fluid and Lines

1. Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.

Checking FULL-ACTIVE SUSPENSION Fluid and Lines (Cont'd)



2. Check fluid level.

a. Park vehicle on level surface and set selector lever in "P" position.

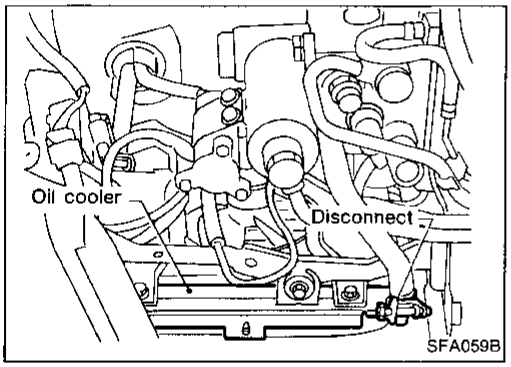
b. Make sure that not passengers nor any cargo is in vehicle, and that necessary equipment, such as spare tire, jack, on-board tools, are provided.

c. Start engine, and warm up to raise active suspension oil temperature about 60°C (140°F).

d. Remove reservoir level gauge, and make sure that oil level is in the proper range.
Level gauge is a screw type, and oil level should be checked with the level gauge fitted securely.

e. If oil level is too low, add specified oil through filler. Add oil until actual oil level is aligned with proper UPPER range mark.

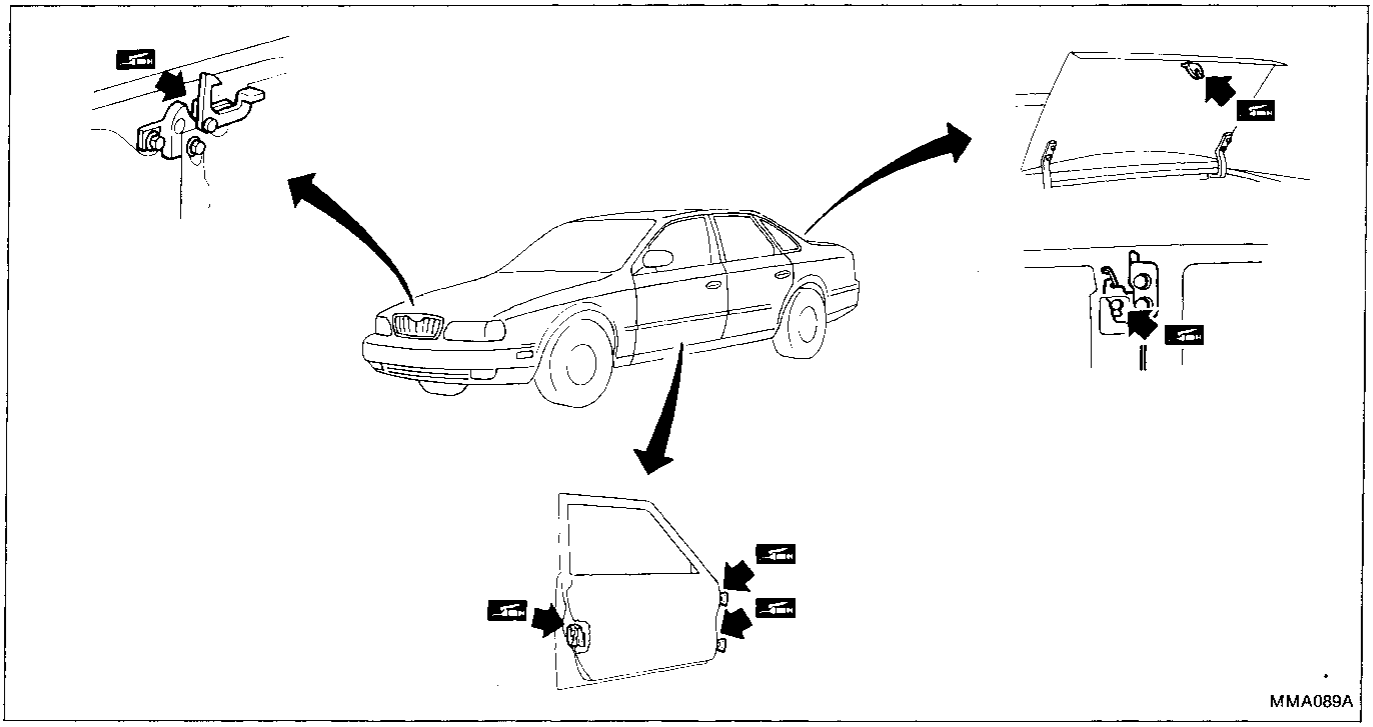
Do not overfill.
Use genuine "Fluid A-Active Suspension".



Changing FULL-ACTIVE SUSPENSION Fluid

Disconnect rubber hose running to multi-valve unit located below oil cooler. Change fluid.
For details of fluid change, refer to "On-vehicle Inspection" in FULL-ACTIVE SUSPENSION, FA section.

Lubricating Locks, Hinges and Hood Latches



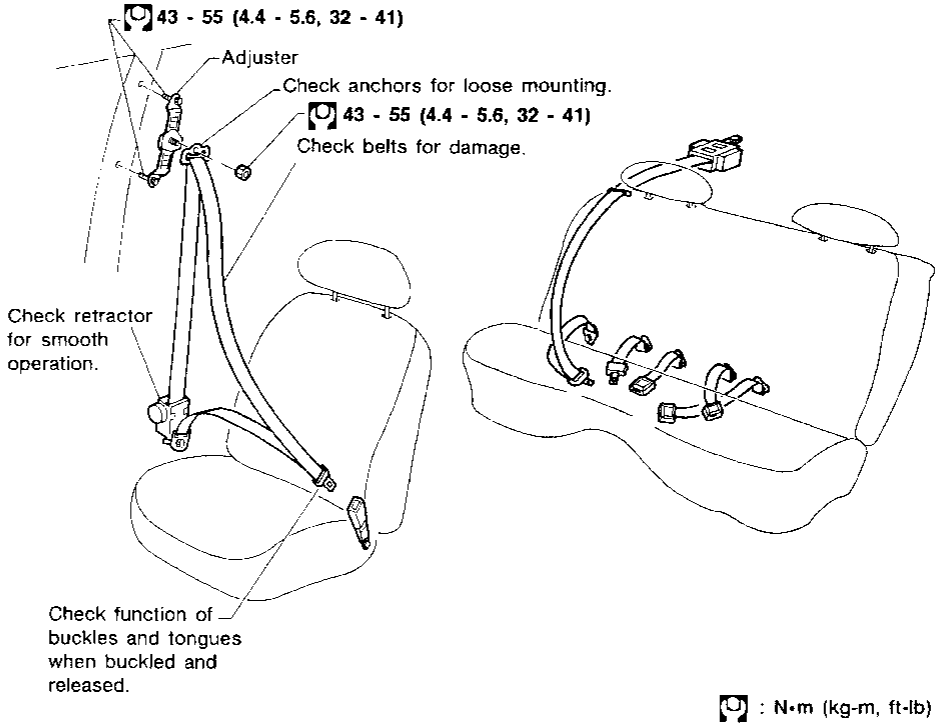
Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

CAUTION:

1. All seat belt assemblies, including retractors and attaching hardwares such as guide rail set, etc., should be inspected after any collision. Nissan recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.
2. If the condition of any component of seat belt assembly is questionable, do not have it repaird, but replaced as seat belt assembly.
3. If webbing is cut, frayed, or damaged, replace belt assembly.
4. Do not spill drinks, oil, etc. on inner lap belt buckle. Never oil tongue and buckle.
5. Use a NISSAN genuine seat belt assembly.

Anchor bolt

43 - 55 N·m (4.4 - 5.6 kg-m, 32 - 41 ft-lb)



Engine Maintenance

INSPECTION AND ADJUSTMENT

Drive belt deflection

Unit: mm (in)

	Used belt deflection		Deflection of new belt
	Limit	Deflection after adjustment	
Alternator	14 (0.55)	9 - 10 (0.35 - 0.39)	7.5 - 8.5 (0.295 - 0.335)
Air conditioner compressor	12 (0.47)	8.5 - 9.5 (0.335 - 0.374)	7.5 - 8.5 (0.295 - 0.335)
Power steering oil pump			
Without SUPER HICAS or FULL-ACTIVE SUSPENSION	14 (0.55)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)
With SUPER HICAS or FULL-ACTIVE SUSPENSION	13 (0.51)	7 - 8 (0.28 - 0.31)	5.5 - 6.5 (0.217 - 0.256)
Applied pushing force	98 N (10 kg, 22 lb)		

Spark plug

Standard type	PFR5G-11
Cold type	PFR6G-11 PFR7G-11

Chassis and Body Maintenance

INSPECTION AND ADJUSTMENT

Brake

Unit: mm (in)

Disc brake	
Pad	
Standard thickness	
Front	9.5 (0.374)
Rear	10.0 (0.394)
Minimum thickness	
Front	2.0 (0.079)
Rear	2.0 (0.079)
Rotor	
Standard thickness	
Front	28.0 (1.102)
Rear	9.0 (0.354)
Minimum thickness	
Front	26.0 (1.024)
Rear	8.0 (0.315)

Wheel balance

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