MAINTENANCE

SECTION MA

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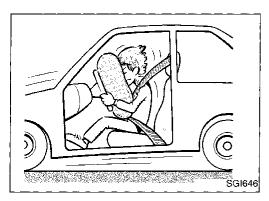
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Supplemental Restraint System (SRS) "AIR BAG"

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 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.

Tool number (Kent Maora Na.)	Description		Engine a	pplication
(Kent-Moore No.) Tool name	Description		SR20DE	GA16DE
KV10115801 (J38956) Oil filter wrench	NT005	65 mm (2.56 in) dia.	x	_
KV10105900 (J34274) Oil filter wrench	NT005	80 mm (3.15 in) dia.	_	x

Special Service Tools

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

can perform checks and inspections themselves or have their NISSAN dealers	do them.	<u> </u>
Item	Reference page	
OUTSIDE THE VEHICLE The maintenance items listed here should be performed from time to time, unless other- wise specified.		MA
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.	_	1C
Tire rotation Tires should be rotated every 12,000 km (7,500 miles.)	MA-28	EC
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-28, FA-6	FE
Windshield wiper blades Check for cracks or wear if they do not wipe properly.		GL
Doors and engine hood Check that all doors and the engine hood operate smoothly as well as the trunk lid or back hatch. Also ensure, that all latches lock securely. Lubricate hinges, latches, rollers and links if necessary. Make sure that the secondary latch keeps		014 MJ1
the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication fre- quently.	MA-30	AT
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.		 FA
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.	_	RA
Warning lamps and buzzers/chimes Make sure that all warning lamps and buzzers/ chimes are operating properly.	_	ريار <u>م</u>
Windshield wiper and washer Check that the wipers and washer operate properly and that the wipers do not streak.		—— BR
Windshield defroster Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	_	
Steering wheel Check that it has the specified play. Be sure to check for changes in the steering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in)	_	RS
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 restrains 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.	_	BT HA
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-30	
Clutch pedal Make sure the pedal operates smoothly and check that it has the proper free play.	CL-4	 []DX
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-7, 10
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-25
Automatic transaxle "Park position" mechanism Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that the vehicle is held securely with the selector lever in the "P" 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, 19
Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.	_
Brake and clutch fluid levels Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir.	MA-27
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-10, 18
Engine oil level Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-14, 22
Power steering fluid level and lines Check the level in the reservoir tank with the engine off. Check the lines for proper attachment, leaks, cracks, etc.	MA-29
Automatic transaxle fluid level Check the level on the dipstick after putting the selector lever in "P" with the engine idling.	MA-26
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-25
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.	_

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 fol-
	Iriving conditions:
	ested short trips of less than E miles (9 km)

- 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- 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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MAIN FENANCE OPERATION							Σ	MAINTENANCE INTERVAL	ANCE IN	TERVAL								
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	15 (24) 12	18.75 2 (30) (15	22.5 26 (36) (4 18 2	26.25 30 (42) (48) 21 24) 33.75 3) (54) 1 27	5 37.5) (60) 30	41.25 (66) 33	5 45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	Reference page	e page
Emission control system me	system maintenance															2	SR	Р
					ļ												series	series
Drive belts	See NOTE (1).					l		ĺ				1				<u>*</u>	MA-10	MA-18
Air cleaner filter	See NOTE (2).					1		E.								Ē	MA-14	MA-22
Vapor lines								*			ľ					Ľ.	MA-17	MA-24
Fuel lines								÷								<u>*</u>	MA-13	MA-21
Fuel filter	See NOTE (3)*.																MA-13	MA-21
Engine coolant	See NOTE (4).															ľ.	MA-11	MA-19
Engine oil		æ	æ	<u>م</u>	ш	œ.	۳.	R R	μ α	Ē	Œ	æ	Œ	æ	۳ ۳	e la	MA-14	MA-22
Engine oil filter (Use part No. 15208-H8903 for GA16DE engine and 15208- 65F00 for SR20DE engine.)	engine and 15208-	œ	æ	e e	œ	e e	μ 		_ œ	L CC	Ē	æ		œ	Œ	α	MA-15	MA-23
Spark plugs GA16DE engine								[A]				•				6		MA-24
SR20DE engine (Use PLATINUM-TIPPED type.) See N	ATINUM-TIPPED type.)	See NC	OTE (5).													[]@	MA-15	
Idle rpm (GA16DE engine)																: <u>*</u>		FC-951
Intake & exhaust valve clearance (GA16DE engine)	E See NOTE (6)*.		1															EM-92
Chassis and body maintenance	ance														Ì			
Brake lines & cables					_			-				-					MA-27	57
Brake pads, discs, drums & linings			-		-		 _	-		-		-		-		-	MA-27	27
Manual & automatic transmission oil	See NOTE (7).				_			-				-				-	MA-25, 26	5.26
Steering gear & linkage, axle & suspension parts	n parts				-		-	-		-		-		-		-	MA-28, FA-5, RA-4	FA-5,
Steering linkage ball joints & front suspension ball joints	sion ball joints		-			i i		-		-		-		-		-	MA-28, FA-5	FA-5
Exhaust system			-				 	-		-		-		-		-	MA-25	25
Drive shaft boots			-				 	-		-		-		-		_	FA-7	
Air bag system	See NOTE (8).																RS-11	=
 NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. (2) If operating mainly in dusty conditions, more frequent maintenance may be required. (3) 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. (4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (5) Original equipment platinum-tipped plugs should be replaced at 60,000 miles (96,000 km). Conventional spark plugs can be used but should be replaced at 30,000 mile (30,000 miles (18,000 km) or 24 months. (6) If valve noise increases, inspect valve clearance. (7) 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 (18,000 km). 	96,000 km) or 48 I in dusty condition d under extremely ht become clogge 96,000 km) or 48 I 96,000 km) or 48 I platinum-tipped p platinum-tipped p platinum-tipped p sing a camper or onths.	month s, mo ed. In (month month flugs s ilugs s rterval e clear a cart	s, insi re fre- re fre- rse we such a s, repl s. rance. top co	be rel be rel urrier,	Pery 1 maint(condit tt, rep fery 3 blaced or driv	5,000 i enance tions c lace tl 1,000 r 1,000 r 1,at 60 i ring ou	miles (e may rin ar hem in niles (000 m roug	1s, inspect every 15,000 miles (24,000 km) or 12 months. ore frequent maintenance may be required. erse weather conditions or in areas where ambient tempe such an event, replace them immediately. Is, replace every 30,000 miles (48,000 km) or 24 months. should be replaced at 60,000 miles (96,000 km). Convent als. arance.	km) o uired. nere ar km) o km) o 5,000 ⊧ uddy	r 12 π nbient r 24 π m). C m). C roads,	ionth: temp ionths onver chan	s. eratur itional itional ige (no	es are spark ot just	either plugs inspe	extrer can b ct) oil	e use at eve	1s, inspect every 15,000 miles (24,000 km) or 12 months. Ore frequent maintenance may be required. Brse weather conditions or in areas where ambient temperatures are either extremely low or extremely such an event, replace them immediately. 1s, replace every 30,000 miles (48,000 km) or 24 months. should be replaced at 60,000 miles (96,000 km). Conventional spark plugs can be used but should be arance.	iould 00 mil

PERIODIC MAINTENANCE

Schedule 1

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Months 6 12 18 24 30 36 42 48 Ion control system maintenance Bis See NOTE (1). I I MA-13 Bis See NOTE (1). I I I MA-13 erifier See NOTE (2). I I I I erifier See NOTE (2). I I I I I erifier GATODE erigite I I I I I I I I erifier GATODE erigite I I <th></th> <th>(km x 1,000)</th> <th>(12)</th> <th>(24)</th> <th>(36</th> <th></th> <th></th> <th>20)</th> <th>(72)</th> <th>(84)</th> <th>(96)</th> <th></th> <th>) -</th>		(km x 1,000)	(12)	(24)	(36			20)	(72)	(84)	(96)) -
ion control system maintenancesee NOTESee NOTES		Months	9	12	18			30	36	42	48		
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Instruction	Air cleaner filter					Ľ.	-				[R]	MA-14	
Interface Interface <t< td=""><td>Vapor lines</td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td><td></td><td></td><td></td><td><u>*</u></td><td>MA-17</td><td>MA-24</td></t<>	Vapor lines					<u> </u>					<u>*</u>	MA-17	MA-24
n See NOTE (2)*. Ma-13 Solant See NOTE (3). R R* Ma-13 Solant See NOTE (3). R R Ma-13 Solant See NOTE (3). R R Ma-13 Solant See NOTE (3). R R R Ma-13 Solant See NOTE (3). R R R Ma-13 Inter (Use Part No.15208-BB03 to GA16DE R R R Ma-13 Matastrict R R R R Ma-15 Mastrict R R R R R R Matastrict R R R R R R R Mastrict R <t< td=""><td>Fuel lines</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>*</u></td><td>MA-13</td><td></td></t<>	Fuel lines										<u>*</u>	MA-13	
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SR2ODE engine (Use PLATINUM-TIPPED type.) See NOTE (4). I* (FI) MA-15 MA-16 MA-16 MA-16 MA-28 MA-28 <th< td=""><td>Spark plugs GA16DE engine</td><td></td><td></td><td></td><td></td><td></td><td>5</td><td></td><td></td><td></td><td>E</td><td></td><td>MA-24</td></th<>	Spark plugs GA16DE engine						5				E		MA-24
(GA16DE engine) I* I* </td <td>SR20DE engine (Use PL/</td> <td>ATINUM-TIPPED t</td> <td>/pe.) See N</td> <td>OTE (4).</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E</td> <td>MA-15</td> <td> </td>	SR20DE engine (Use PL/	ATINUM-TIPPED t	/pe.) See N	OTE (4).							E	MA-15	
exhaust valve clearance (GA16DE See NOTE (5)*. is and body maintenance i i i	Idle rpm (GA16DE engine)					-					*		EC-25
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gear linkage, axle & suspension parts I I system I I system See NOTE (6).	Manual & automatic transmission oil			-					-		-	MA-	25, 26
system I <td>Steering gear linkage, axle & suspension pa</td> <td>rts</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>MA-2 F</td> <td>8, FA-5, 1A-4</td>	Steering gear linkage, axle & suspension pa	rts				_					_	MA-2 F	8, FA-5, 1A-4
aft boots I I I I I system See NOTE (6). I I I I I I	Exhaust system					-					-	Σ	A-25
system See NOTE (6).	Drive shaft boots			_					_		-		-A-7
	 Air bag system	See NOTE (6).										Ē	S-11
	nance in order to maintain t	he emission we	irranty or	manufac	turer reca	II liability.	Other ma	intenano	e items	and interv	als are re	quired.	
nance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.	FA EL IDX	RS BT	\$T	19 19	RA		MT	GL	FE	E¢	LC.	18,M	MA
nance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. 11													

PERIODIC MAINTENANCE

Schedule 2

			Cap	acity (Approx	imate)		
			US measure	lmp measure	Liter	Recommended fluids and lubricants	
Engine oil (Refill)	With	SR20DE	3-5/8 qt	3 qt	3.4		
	oil filter	GA16DE	3-3/8 qt	2-7/8 qt	3.2	Ensure Concerning Oils of ADLCC or CLMC *	
	Without	SR20DE	3-3/8 qt	2-7/8 qt	3.2	 Energy Conserving Oils of API SG or SH*2, * 	
	oil filter	GA16DE	3 qt	2-1/2 qt	2.8		
Cooling system	M/T	SR20DE	6-1/2 qt	5-3/8 qt	6.1		
	1717-1	GA16DE	6-1/4 qt	5-1/4 qt	5.9	Anti fuenza esplect (Ethylene shuel bees)	
	A/T	SR20DE	7 qt	5-7/8 qt	6.6	 Anti-freeze coolant (Ethylene glycol base) 	
	A/T	GA16DE	5-5/8 qt	4-5/8 qt	5.3		
Manual transaxle gear oil RS5F		RS5F31A	6-1/8 - 6-3/4 pt	5-1/8 - 5-5/8 pt	2.9 - 3.2		
		RS5F32V	7-7/8 - 8-1/4 pt	6-1/2 - 6-7/8 pt	3.7 - 3.9	API GL-4*2	
Automatic transaxle	fluid	RL4F03A RE4F03V	7-3/8 qt	6-1/8 qt	7.0	Genuine Nissan ATF or equivalent*1	
Power steering fluid						Type DEXRON [™] II or equivalent	
Brake fluid			-	_	_	Genuine Nissan Brake Fluid*4 or equivalent DOT 3 (US FMVSS No. 116)	
Multi-purpose greas	е 		-	_	_	NLGI No. 2 (Lithium soap base)	

Fluids and Lubricants

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

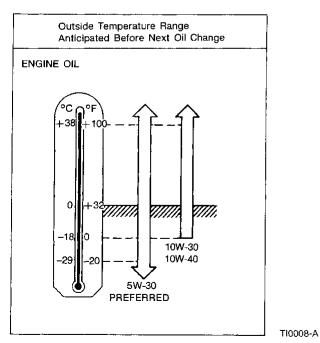
*2: For further details, see "Recommended SAE viscosity number".

*3: Energy conserving oils

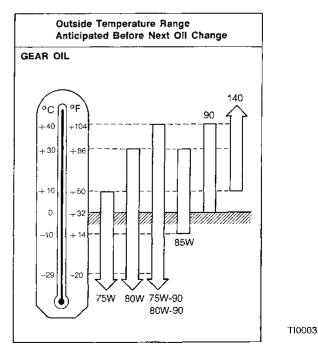
These oils can be identified by such labels as EC-I, EC-II, energy conserving, energy saving, improved fuel economy, etc.

*4: Available in mainland USA through your NISSAN dealer

SAE Viscosity Number



5W-30 is preferable for all ambient temperatures. 20W-40 and 20W-50 are usable if the ambient temperature is above $10^{\circ}C$ ($50^{\circ}F$) for all seasons.



80W-90 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.

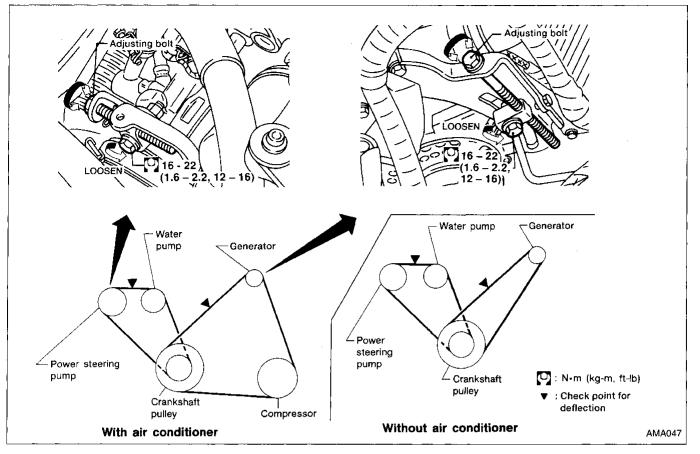
CAUTION:

When adding or replacing coolant, be sure to use only an ethylene glycol anti-freeze with the proper mixture ratio. See the following examples:

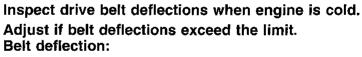
e temperature down to	Anti-	Soft	Ĝ
°F	freeze	water	ULU S
5	30%	70%	
-30	50%	50%	MA

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

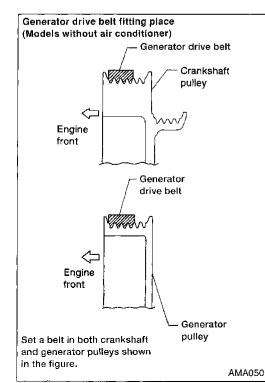
Checking Drive Belts



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

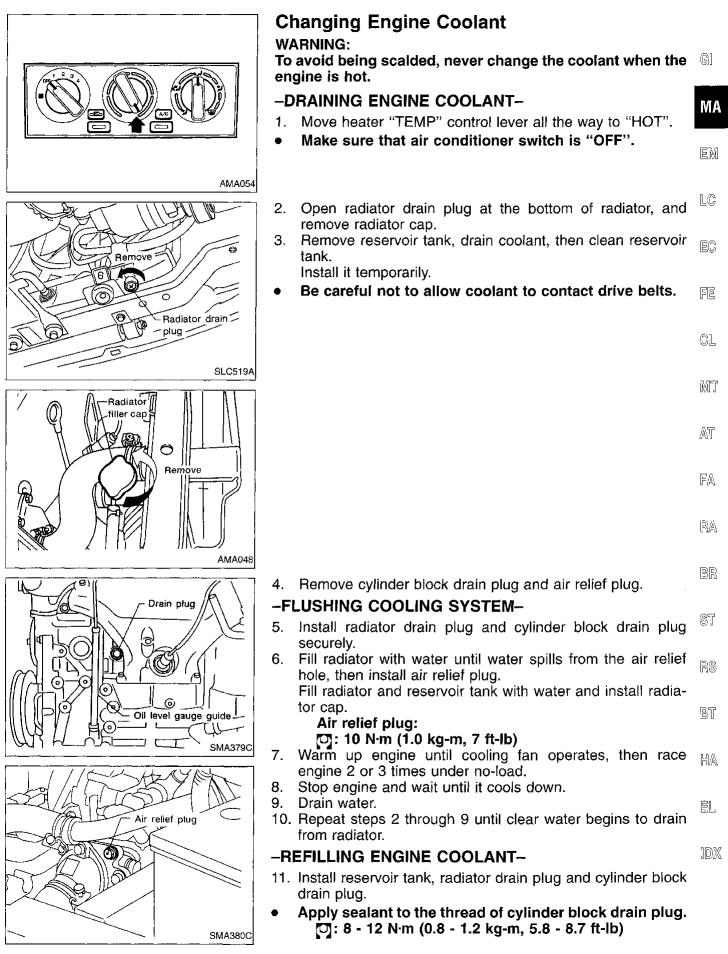


			Unit: mm (in)
	Used b	elt deflection	Deflection
	Limit	Deflection after adjustment	of new belt
Generator			
With air conditioner compressor	11.5 - 12.5 (0.453 - 0.492)	7 - 8 (0.28 - 0.31)	6.5 - 7.5 (0.256 - 0.295)
Without air conditioner compressor	12 - 13 (0.47 - 0.51)	8 - 9 (0.31 - 0.35)	7 - 8 (0.28 - 0.31)
Power steering pump	6 - 7 (0.24 - 0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)
Applied pushing force		98 N (10 kg, 22 lb)	

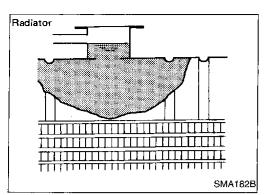


MA-10





ENGINE MAINTENANCE



Changing Engine Coolant (Cont'd)

- 12. Fill radiator with coolant until coolant spills from the air relief hole, then install air relief plug.
- 13. Fill radiator and reservoir tank with coolant up to specified level and install radiator cap.

Air relief plug:

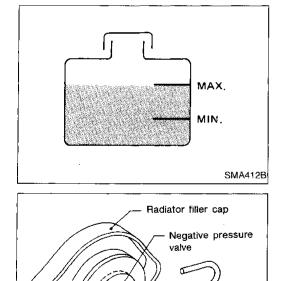
[◯]: 10 N·m (1.0 kg-m, 7 ft-lb)

For coolant mixture ratio, refer to MA-9.

Coolant capacity (With reservoir tank):

Unit: *t* (US qt, Imp qt)

M/T	6.1 (6-1/2, 5-3/8)
A/T	6.6 (7, 5-7/8)



Steel wire

SLC575A

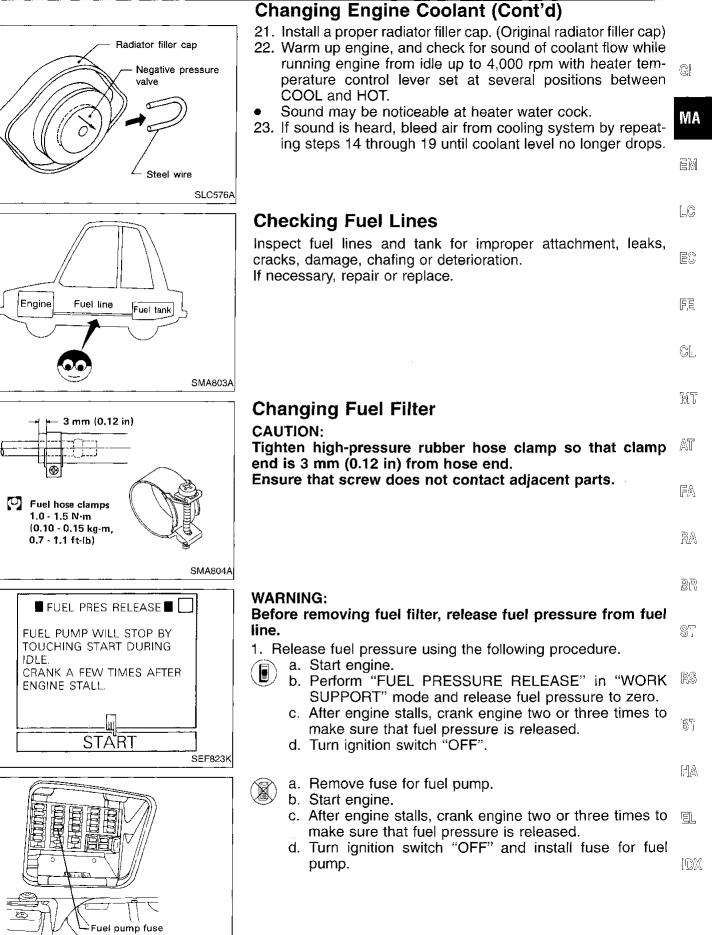
Reservoir tank capacity (for MAX level): 0.7 t (3/4 US qt, 5/8 Imp qt). Pour coolant through coolant filler neck slowly to allow air in system to escape.

- 14. Install a temporary radiator filler cap which allows air and coolant in cooling system to be directed into reservoir tank regardless of pressure.
- Install a suitable steel wire between negative pressure valve and its seat as shown in the picture.
- 15. Warm up engine to normal operating temperature.
- 16. Run engine at 2,500 rpm for 10 seconds and return to idle speed.
- Repeat 2 or 3 times.

Watch coolant temperature gauge so as not to overheat the engine.

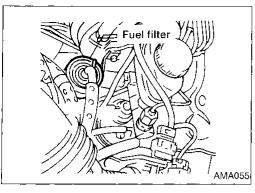
- 17. Stop engine and cool it down.
- Cool down using a fan to reduce the time.
- 18. Remove the temporary radiator filler cap and check coolant level.
- If necessary, refill radiator up to filler neck with coolant.
- 19. Refill reservoir tank to Max line with coolant.
- 20. Repeat step 16 through step 19 two or more times.

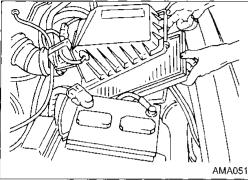


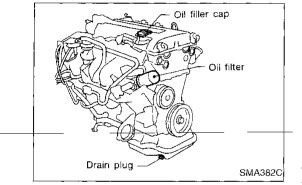


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Changing Fuel Filter (Cont'd)

WARNING:

Use rubber gloves to prevent fuel from contacting skin when removing fuel hoses and filter.

- 2. Loosen fuel hose clamps.
- 3. 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.

Changing Air Cleaner Filter

Unfasten clamps to change air cleaner filter.

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

Changing Engine Oil

WARNING:

- Be careful not to burn yourself, as the engine oil is hot.
- Prolonged and repeated contact with used engine oil may cause skin cancer; try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. 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 or SH.

Viscosity: Refer to MA-8.

Refill oil capacity (Approximately):

Unit: / (US qt, Imp qt)

With oil filter change	3.4 (3-5/8, 3)
Without oil filter change	3.2 (3-3/8, 2-7/8)

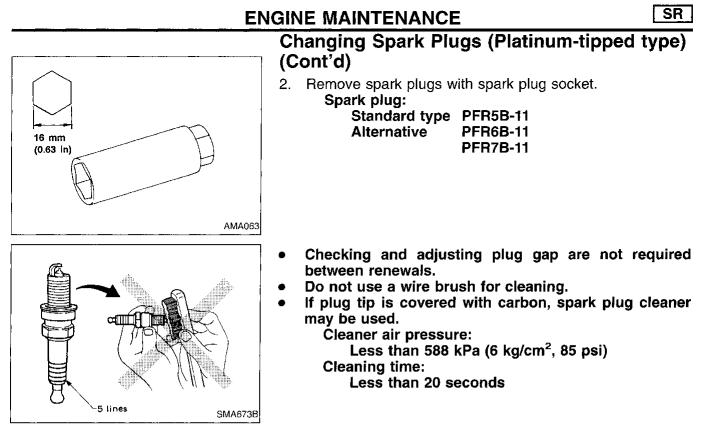
CAUTION:

 Be sure to clean drain plug and install with new washer. Drain plug:

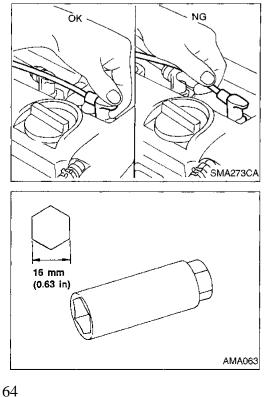
[]: 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 ft-lb)

• The refill capacity depends on the oil temperature and drain time; use the "Refill oil capacity" values as a reference and be certain to check with the dipstick when changing the oil.

ENGINE MAINTENANCE	
Changing Engine Oil (Cont'd)	
 Check oil level. Start engine and check area around drain plug and oil filter for oil leakage. Run engine for a few minutes, then turn it off. After several minutes, check oil level. 	G) MA
L Refill oil to this "H" level. Do not overfill. SMA390C	EM
Changing Oil Filter	LĈ
Oil filter (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956) LOOSEN (J38956)	EC
engine oil are hot. The filter is a full-flow cartridge type and is provided with a relief	المتر Thr
valve. Refer to LC section ("Oil Filter", "ENGINE LUBRICATION SYSTEM").	CL
2. Clean oil filter mounting surface on cylinder block. Coat rubber seal of new oil filter with engine oil.	lWT
	AT
	FA
SMA010	RA
3. Screw in the oil filter until a slight resistance is felt, then	BR
tighten additionally more than 2/3 turn. 4. Add engine oil. Refer to "Changing Engine Oil", MA-14.	ST
	RS
	BT
	HA
ок NG Changing Spark Plugs (Platinum-tipped type) 1. Disconnect ignition wires from spark plugs at boot. Do not pull on the wire.	<u> </u>
STATISCA	IDX



- Install spark plugs. Reconnect ignition wires according to numbers indicated on them.
 Spark plug:
 - []: 20 29 N·m (2.0 3.0 kg-m, 14 22 ft-lb)



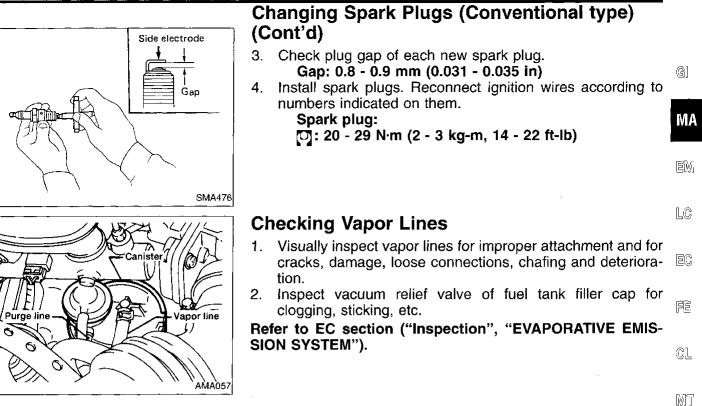
Changing Spark Plugs (Conventional type)

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

2. Remove spark plugs with spark plug socket. Spark plug:

Standard type	BKR6E
Hot type	BKR5E
Cold type	BKR7E

ENGINE MAINTENANCE



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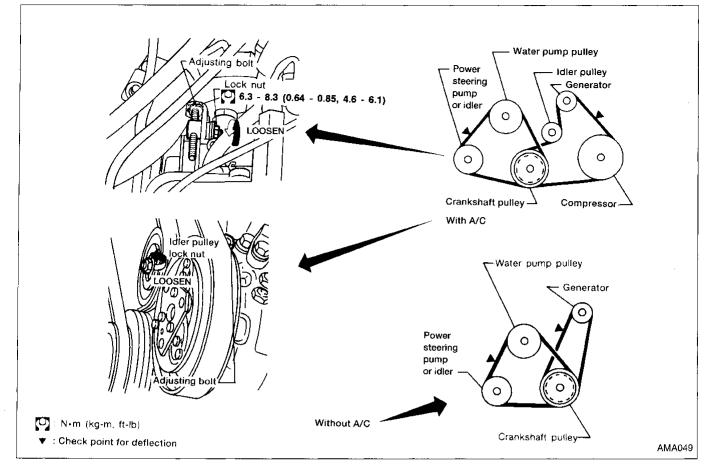
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Checking Drive Belts



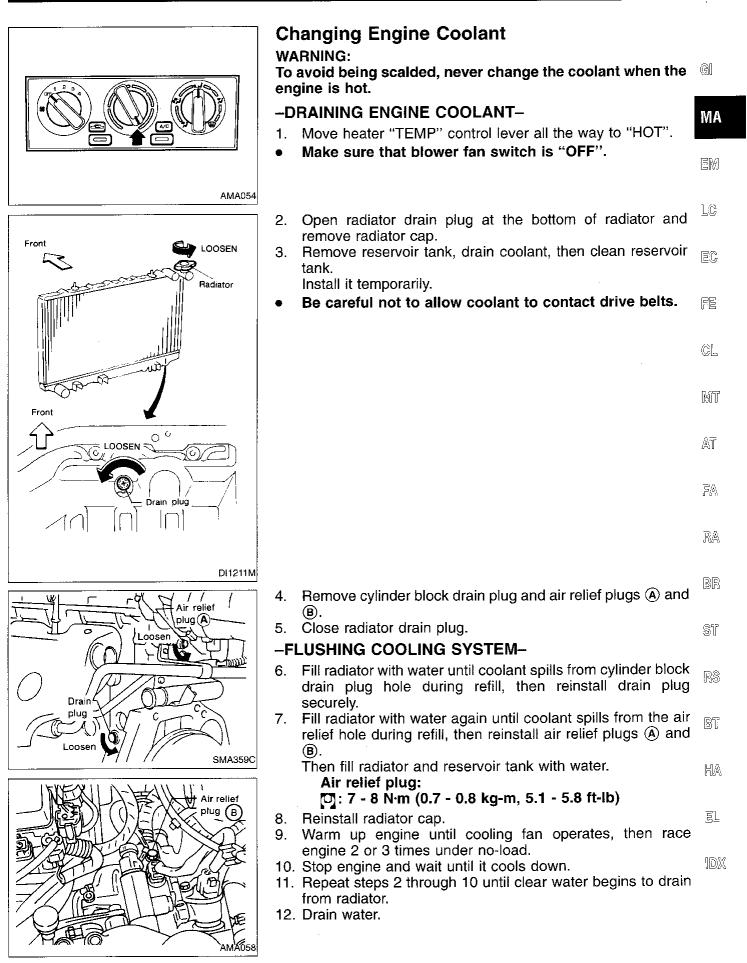
- 1. Inspect for cracks, fraying, wear or oil. If necessary, replace with a new one.
- Inspect drive belt deflections by pushing midway between pulleys.

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

Unit: mm (in)

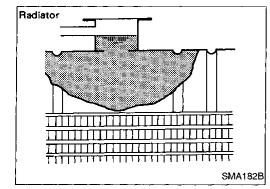
GA

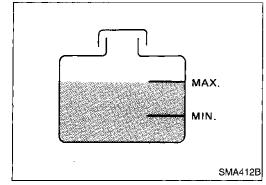
	Used belt deflection		Deflection of	
	Limit	Deflection after adjustment	Deflection of new belt	
Generator With A/C compressor	9.5 (0.374)	6 - 6.5 (0.24 - 0.256)	5 - 6 (0.20 - 0.24)	
Without A/C compressor	11.5 (0.453)	7.5 - 8 (0.295 - 0.315)	6.5 - 7 (0.256 - 0.28)	
Water pump With power steering pump	7.5 (0.295)	4 - 6 (0.16 - 0.24)	3 - 5 (0.12 - 0.20)	
Without power steering pump	6 (0.24)	3 - 4.5 (0.12 - 0.177)	3 - 4 (0.12 - 0.16)	
Applied pushing force	98 N (10 kg, 22 lb)			



Changing Engine Coolant (Cont'd)

- Apply sealant to the thread of drain plug on cylinder block.
 - [0]: 34 44 N·m (3.5 4.5 kg-m, 25 33 ft-lb)
- 13. Reinstall reservoir tank.







14. Fill radiator and reservoir tank with coolant up to specified level following step 6 through step 8.

For coolant mixture ratio, refer to MA-9. Coolant capacity (With reservoir tank):

Unit: t (US qt, Imp qt)

M/T	5.9 (6-1/4, 5-1/4)
A/T	5.3 (5-5/8, 4-5/8)

Reservoir tank capacity (to MAX level):

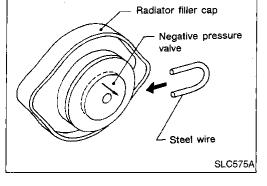
0.7 ℓ (3/4 US qt, 5/8 Imp qt)

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

- 15. Install a temporary radiator filler cap which allows air and coolant in cooling system to be directed into reservoir tank regardless of pressure.
- Install a suitable steel wire between negative pressure valve and its seat as shown in the picture.
- 16. Warm up engine to normal operating temperature.
- 17. Run engine at 2,500 rpm for 10 seconds and return to idle speed.
- Repeat 2 or 3 times.

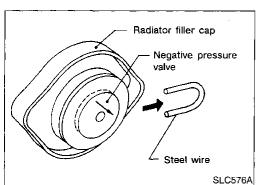
Watch coolant temperature gauge so as not to overheat the engine.

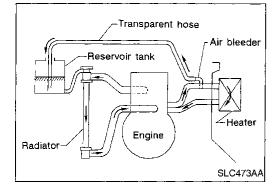
- 18. Stop engine and cool it down.
- Cool down using a fan to reduce the time.
- 19. Remove the temporary radiator filler cap and check coolant level.
- If necessary, refill radiator up to filler neck with coolant.
- 20. Refill reservoir tank to Max line with coolant.
- 21. Repeat step 17 through step 20 two or more times.



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ENGINE MAINTENANCE





Changing Engine Coolant (Cont'd)

- 22. Install a proper radiator filler cap. (Original radiator filler cap)
 - 23. Warm up engine, and check for sound of coolant flow while running engine from idle up to 4,000 rpm with heater temperature control lever set at several positions between COOL and HOT.
 - Sound may be noticeable at heater water cock.
 - Sound may be holiceable at heater water cock.
 24. If sound is heard, bleed air from cooling system according to the following steps.
- a. Cool engine down and remove air bleeder cap on heater $_{\ensuremath{\mathbb{E}}\ensuremath{\mathbb{M}}}$ inlet hose.
- b. Attach a suitable transparent hose and hose fitting at air bleeder hole and put the opposite end of the hose into coolant of reservoir tank.
- c. Install the temporary radiator cap and check for proper con-
- d. Start engine and check for bubbles in reservoir tank.
- e. Set heater temperature control lever to max "COOL" position in order to bypass coolant through the transparent hose.
- f. Run engine up to 2,300 rpm until bubbles disappear in the transparent hose.

Do not run engine over 2,300 rpm because engine may be $\ensuremath{\mathbb{MT}}$ damaged due to reduced coolant flow.

- g. After removing bubbles, set heater temperature control lever to max "HOT" position and check for sound of coolant flow.
- h. If sound is heard, repeat step e. through step g.
- 25. Stop engine and cool it down.
- 26. Install a proper radiator cap. (Original radiator cap)
- 27. Remove the transparent hose and install air bleeder cap.
- 28. Check any removed parts for secure reinstallation.

Checking Fuel Lines

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

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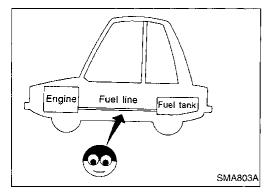
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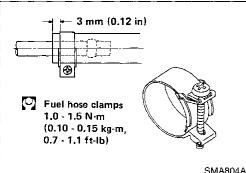
Changing Fuel Filter

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end. Ensure that screw does not contact adjacent parts.

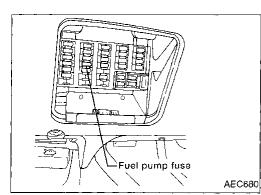
1DX

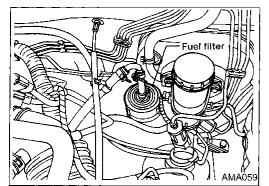


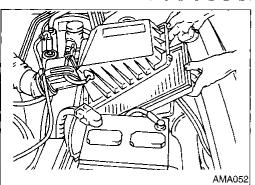


MA-21

ENGINE MAINTENANCE







Changing Fuel Filter (Cont'd)

WARNING:

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

GA

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

WARNING:

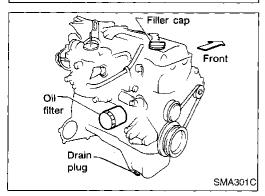
Use rubber gloves to prevent fuel from contacting skin when removing fuel hoses and filter.

- 5. Loosen fuel hose clamps.
- 6. 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.

Changing Air Cleaner Filter

Unfasten clamps to change air cleaner filter.

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



Changing Engine Oil

WARNING:

- Be careful not to burn yourself, as the engine oil is hot.
- Prolonged and repeated contact with used engine oil may cause skin cancer; try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- 1. 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 or SH Viscosity: Refer to MA-8.

Refill oil capacity (Approximately):

Unit: ℓ (US qt, Imp qt)

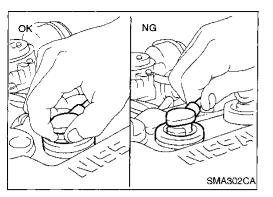
With oil filter change	3.2 (3-3/8, 2-7/8)
Without oil filter change	2.8 (3, 2-1/2)

ENGINE MAINTENANCE	GA	
 Changing Engine Oil (Cont'd) CAUTION: Be sure to clean drain plug and install wit Drain plug: [7]: 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 The refill capacity depends on the oil ter drain time. Use the "Refill oil capacity" v erence and be certain to check with the changing the oil. 	ft-lb) mperature and values as a ref- dipstick when	©I MA EM
4. Check oil level.		LC
 5. Start engine and check area around drain p for oil leakage. 6. Run engine for a few minutes, then turn it o minutes, check oil level. 	-	ĒĊ
Refill oil to this		je
"H" level. Do not overfill. SMA390C		CL MT
Changing Oil Filter 1. Remove oil filter with Tool. WARNING:		AT
Be careful not to burn yourself, as the er engine oil are hot.	-	FA
		RA
2. Clean oil filter mounting surface on cylinder rubber seal of new oil filter with engine oil.	block. Coat the	BR ST
		e i RS
		BT
SMA010 3. Screw in the oil filter until a slight resistan tighten additionally more than 2/3 turn.	ce is felt, then	HA
2/3 of a turn	[
		[DX

MA-23

SMA229B

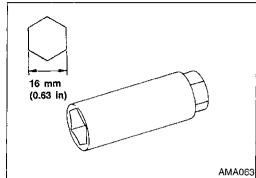
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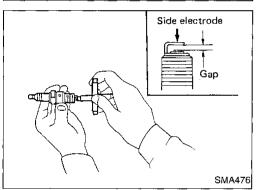


Changing Spark Plugs

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

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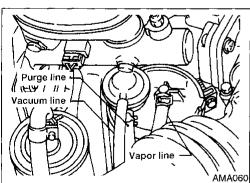
2. Remove spark plugs with spark plug socket. **Spark plug:**

Standard type	BKR5E-11
Hot type	BKR4E-11
Cold type	BKR6E-11 BKR7E-11

- Check gap of each new spark plug. Gap: 1.0 - 1.1 mm (0.039 - 0.043 in)
- 4. Install spark plugs. Reconnect ignition wires according to numbers indicated on them.

Spark plug:

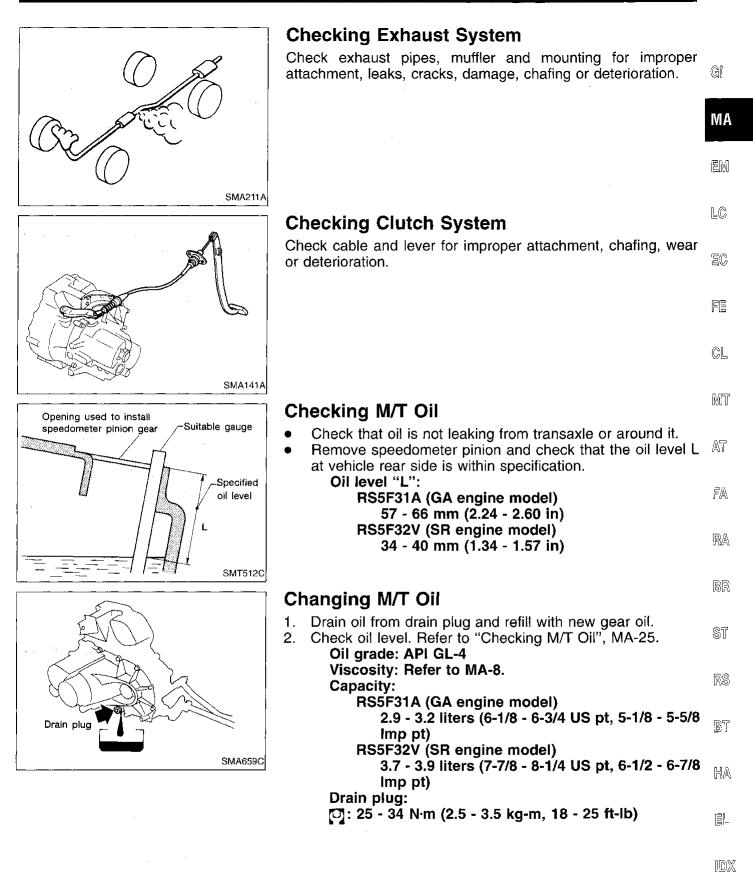
[]: 20 - 29 N·m (2.0 - 3.0 kg-m, 14 - 22 ft-lb)

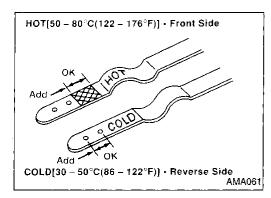


Checking Vapor Lines

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

Refer to EC section ("Inspection", EVAPORATIVE EMIS-SION SYSTEM").





Checking A/T Fluid

- 1. Warm up engine.
- 2. Check for fluid leakage.
- 3. Before driving, fluid level can be checked at fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on dispstick.
- a. Park vehicle on level surface and set parking brake.
- b. Start engine and move selector lever through each gear position. Leave selector lever in "P" position.
- c. Check fluid level with engine idling.
- d. Remove dipstick and wipe clean with lint-free paper.
- e. Re-insert dipstick into charging pipe as far as it will go.
- Remove dipstick and note reading. If reading is at low side of range, add fluid to the charging pipe.
 Do not overfill.
- 4. Drive vehicle for approximately 5 mintues in urban areas.
- 5. Re-check fluid level at fluid temperatures of 50 to 80°C (122 to 176°F) using "HOT" range on dipstick.



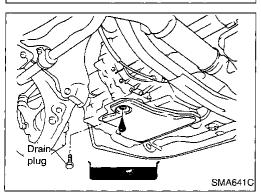
- 6. Check fluid condition.
- If fluid is very dark or smells burned, refer to A/T section for checking operation of A/T. Flush cooling system after repair of A/T.
- b. If A/T fluid contains frictional material (clutches, bands, etc.), replace radiator and flush cooler line using cleaning solvent and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

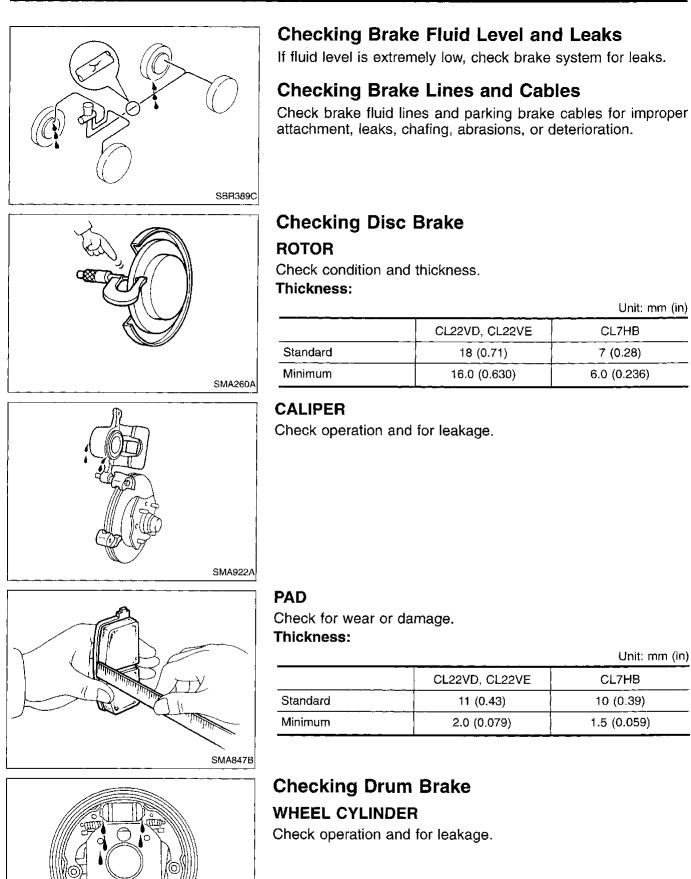
Changing A/T Fluid

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

Fluid grade: Genuine Nissan ATF or equivalent Refer to "RECOMMENDED FLUIDS AND LUBRICANTS", MA-8.

- Fluid capacity (With torque converter): 7.0 liters (7-3/8 US qt, 6-1/8 lmp qt) Drain plug:
- [0]: 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-26. If fluid is still dirty, repeat steps 2. through 5.





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Unit: mm (in)

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1.5 (0.059)

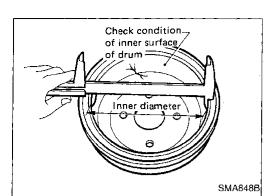
Unit: mm (in)

CL7HB

7 (0.28)

6.0 (0.236)

CHASSIS AND BODY MAINTENANCE



Checking Drum Brake (Cont'd) DRUM

Check condition of inner surface. Standard diameter: 180 mm (7.09 in) Drum repair limit (Inner diameter): 181 mm (7.13 in)

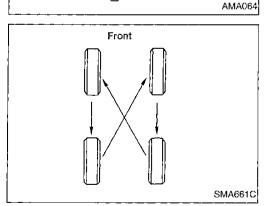
SMA849B

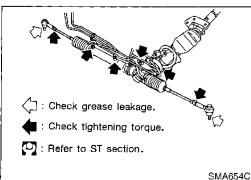
Plug

LINING Check for wear or damage. Standard thickness: 4 mm (0.16 in) Lining wear limit (Minimum thickness): 1.5 mm (0.059 in)

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 SDS, MA-32.

Tire Rotation

Do not include the T-type spare tire when rotating the tires. Wheel nuts: [7]: 98 - 118 N·m (10.0 - 12.0 kg-m, 72 - 87 ft-lb)

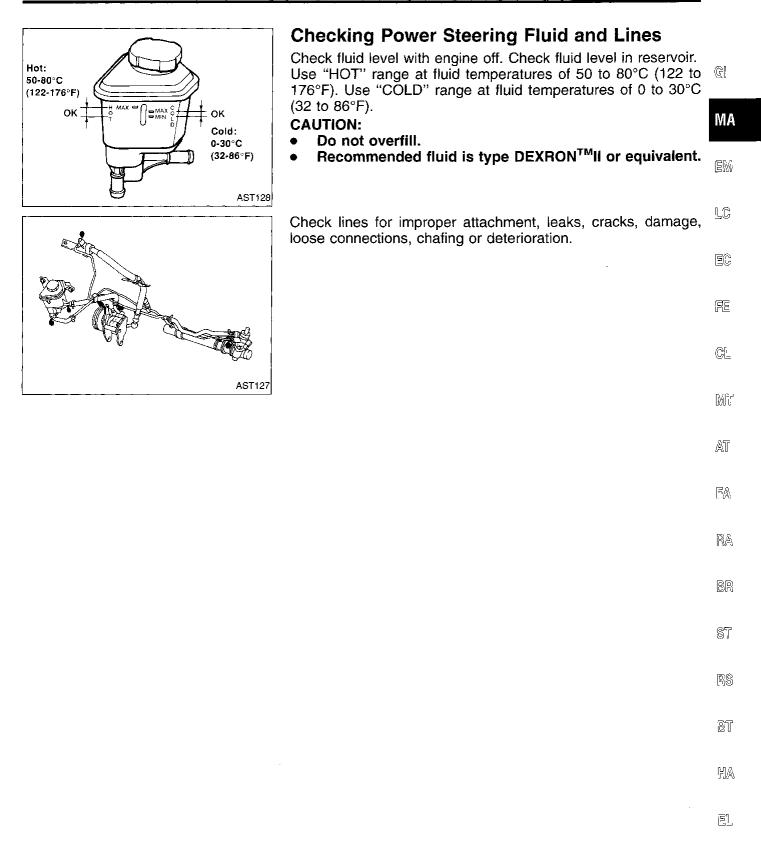
Checking Steering Gear and Linkage

STEERING GEAR

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

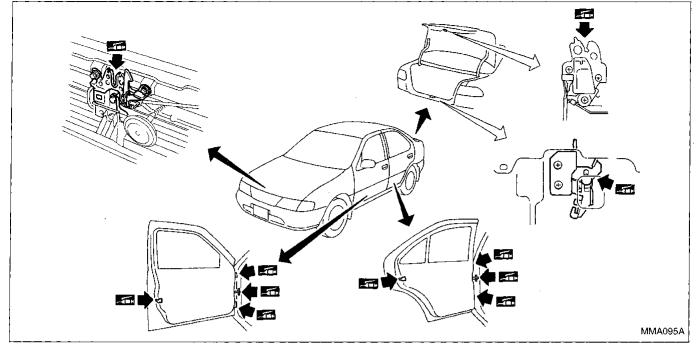
STEERING LINKAGE

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



1DX

Lubricating Locks, Hinges and Hood Latches



Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

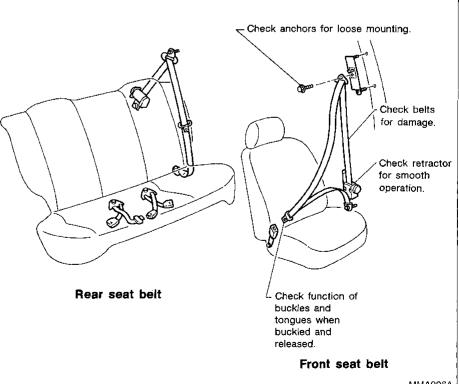
CAUTION:

1. After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (i.e. guide rail set). Nissan recommends to replace all seat belt assemblies in use during a collision, unless not damaged and property operating after minor collision.

Also inspect seat belt assemblies not in use during a collision, and replace if damaged or improperly operating.

- 2. If any component of seat belt assembly is questionable, do not repair. Replace as seat belt assembly.
- 3. If webbing is cut, frayed, or damaged, replace belt assembly.
- Do not spill drinks, oil etc. on inner lap belt buckle. Never oil tongue and buckle.
- 5. Use a NISSAN genuine seat belt assembly.

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Anchor bolt
43 - 55 N⋅m
(4.4 - 5.6 kg-m,
32 - 41 ft-lb)
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Engine Maintenance

Spark plug

INSPECTION AND ADJUSTMENT

Drive belt deflection

			Unit: mm (in)
	Used belt	Used belt deflection	
	Limit	Deflection after adjustment	Deflection of new belt
Generator			
With air conditioner compressor	11.5 - 12.5 (0.453 - 0.492)	7 - 8 (0.28 - 0.31)	6.5 - 7.5 (0.256 - 0.295)
Without air conditior compressor	ner 12 - 13 (0.47 - 0.51)	8 - 9 (0.31 - 0.35)	7 - 8 (0.28 - 0.31)
Power steering pump	6 - 7 (0.24 - 0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)
Applied pushing force	98	N (10 kg, 22	lb)

Spark plug				G
		Platinum- tipped type	Conventional type	
Туре				IV
Standard		PFR5B-11	BKR6E	
Alternative		PFR6B-11 PFR7B-11	BKR5E BKR7E	E
Plug gap	mm (in)		0.8 - 0.9 (0.031 - 0.035)	L(
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INSPECTION AND ADJUSTMENT

Wheel balance

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

Chassis and Body	Maintenance
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mm (ín)		3 (.)
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l	11 (0.43)	
	10 (0.39)	RA
		_
ļ	2.0 (0.079)	8R
	1.5 (0.059)	_
		ଞା
	18 (0.71)	50
	7 (0.28)	— RS
		_
	16.0 (0.630)	BT
	6.0 (0.236)	_
mm (in)		MA
	4 (0.16)	— EL
	1.5 (0.059)	
er 🛛	180 (7.09)	idX
er	181 (7.13)	
	mm (in)	11 (0.43) 10 (0.39) 2.0 (0.079) 1.5 (0.059) 1.5 (0.059) 18 (0.71) 7 (0.28) 16.0 (0.630) 6.0 (0.236) mm (in) 4 (0.16) 1.5 (0.059) er

Engine Maintenance

Spark plug

INSPECTION AND ADJUSTMENT

Drive belt deflection

Unit: mm (in)

	Used belt		
	Limit	Deflection after adjustment	Deflection of new belt
Generator With A/C compressor	9.5 (0.374)	6 - 6.5 (0.24 - 0.256)	5 - 6 (0.20 - 0.24)
Without A/C compres- sor	11.5 (0.453)	7.5 - 8 (0.295 - 0.315)	6.5 - 7 (0.256 - 0.28)
Water pump With power steering pump	7.5 (0.295)	4 - 6 (0.16 - 0.24)	3 - 5 (0.12 - 0.20)
Without power steer- ing pump	6 (0.24)	3 - 4.5 (0.12 - 0.177)	3 - 4 (0.12 - 0.16)
Applied pushing force	98 N (10 kg, 22 lb)		

Туре		
Standard		BKR5E-11
Hot		BKR4E-11
Cold		BKR6E-11 BKR7E-11
Plug gap	mm (in)	1.0 - 1.1 (0.039 - 0.043)

INSPECTION AND ADJUSTMENT

Chassis and Body Maintenance Brake

Wheel balance

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

Pad Standard thickness CL22VD, CL22VE 11 (0.43) CL7HB 10 (0.39) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 2.0 (0.079) CL7HB 1.5 (0.059) Rotor Standard thickness CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum Standard thickness 1.5 (0.059) Drum Standard thickness 1.5 (0.059)	Disc brake	mm (in)	
CL22VD, CL22VE 11 (0.43) CL7HB 10 (0.39) Minimum thickness CL22VD, CL22VE 2.0 (0.079) CL7HB 1.5 (0.059) Rotor Standard thickness CL2VD, CL22VE 18 (0.71) CL2VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE 16.0 (0.630) CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum Drum	Pad		
CL7HB 10 (0.39) Minimum thickness CL22VD, CL22VE 2.0 (0.079) CL7HB 1.5 (0.059) Rotor Standard thickness CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE Minimum thickness CL22VD, CL22VE Minimum thickness CL22VD, CL22VE Drum brake mm (in) Lining Standard thickness Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059)	Standard thickness		
Minimum thickness 2.0 (0.079) CL22VD, CL22VE 2.0 (0.079) CL7HB 1.5 (0.059) Rotor Standard thickness CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum Inimum thickness	CL22VD, CL22VE		11 (0.43)
CL22VD, CL22VE 2.0 (0.079) CL7HB 1.5 (0.059) Rotor Standard thickness CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum The context of the conte	CL7HB		10 (0.39)
CL7HB 1.5 (0.059) Rotor Standard thickness CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum Intervention	Minimum thickness		
Rotor 18 (0.71) CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining Standard thickness Standard thickness 1.5 (0.059) Drum Drum	CL22VD, CL22VE		2.0 (0.079)
Standard thickness 18 (0.71) CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 5tandard thickness Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum	CL7HB		1.5 (0.059)
CL22VD, CL22VE 18 (0.71) CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum Drum	Rotor		
CL7HB 7 (0.28) Minimum thickness CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum	Standard thickness		
Minimum thickness 16.0 (0.630) CL22VD, CL22VE 16.0 (0.236) Drum brake mm (in) Lining 5tandard thickness Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum Drum	CL22VD, CL22VE		18 (0.71)
CL22VD, CL22VE 16.0 (0.630) CL7HB 6.0 (0.236) Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum 1.5 (0.059)	CL7HB		7 (0.28)
CL7HB6.0 (0.236)Drum brakemm (in)LiningStandard thickness4 (0.16)Minimum thickness1.5 (0.059)Drum	Minimum thickness		
Drum brake mm (in) Lining 4 (0.16) Minimum thickness 1.5 (0.059) Drum 1.5 (0.059)	CL22VD, CL22VE		16.0 (0.630)
Lining Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum	CL7HB		6.0 (0.236)
Standard thickness 4 (0.16) Minimum thickness 1.5 (0.059) Drum 1.5 (0.059)	Drum brake	mm (in)	
Minimum thickness 1.5 (0.059) Drum	Lining		
Drum	Standard thickness		4 (0.16)
	Minimum thickness		1.5 (0.059)
Standard inner diameter 180 (7.09)	Drum		
	Standard inner diamete	er _	180 (7.09)
Maximum inner diameter 181 (7.13)	Maximum inner diamete	er	181 (7.13)