MAINTENANCE

1Δ

MA Em

LC

EC

FE

GI

CONTENTS

SECTION

PRECAUTIONS AND PREPARATION	2
Supplemental Restraint System (SRS) "AIR	
BAG"	2
Special Service Tool	2
GENERAL MAINTENANCE	3
PERIODIC MAINTENANCE	
Schedule 1	6
Schedule 2	7
RECOMMENDED FLUIDS AND LUBRICANTS	
Fluids and Lubricants	8
SAE Viscosity Number	9
Anti-freeze Coolant Mixture Ratio	
ENGINE MAINTENANCE	10
Checking Drive Belts	10
Changing Engine Coolant	11
Checking Fuel Lines	12
Changing Fuel Filter	
Changing Air Cleaner Filter	
Changing Engine Oil	
Changing Oil Filter	
Changing Spark Plugs	
Checking EVAP Vapor Lines	
CHASSIS AND BODY MAINTENANCE	
Checking Exhaust System	

Checking A/T Fluid17	AT
Changing A/T Fluid17	
Checking All Mode 4WD Transfer Fluid	TF
Changing All Mode 4WD Transfer Fluid18	
Checking Propeller Shaft18	
Greasing Propeller Shaft19	PD
Checking Differential Gear Oil	
Changing Differential Gear Oil19	5 A
Balancing Wheels20	FA
Tire Rotation	
Checking Brake Fluid Level and Leaks	RA
Checking Brake Lines and Cables20 Checking Disc Brake21	
Checking Drum Brake	
Checking Steering Gear, Linkage and Transfer	ßR
Gear	
Checking Power Steering Fluid and Lines	ST
Lubricating Locks, Hinges and Hood Latches23	
Checking Seat Belts, Buckles, Retractors,	നര
Anchors and Adjusters23	RS
SERVICE DATA AND SPECIFICATIONS (SDS)	
Engine Maintenance24	BT
Chassis and Body Maintenance24	_

HA

EL

IDX

Supplemental Restraint System (SRS) "AIR BAG"

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

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

Tool number (Kent-Moore No.) Tool name	Description	
KV10115801 (J38956) Oil filter cap wrench	(Removing oil filter
	NT375	a: 64.3 mm (2.531 in)

Special Service Tool

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

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

ltem	Reference page	
OUTSIDE THE VEHICLE The maintenance items listed here should be performed from time to time, unless otherwise 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.	_	— EM
Wheel nuts When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.		
Tire rotation Tires should be rotated every 6,000 km (3,750 miles).	MA-20	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-20, FA-8	FE
Windshield wiper blades Check for cracks or wear if they do not wipe properly.	—	AT
Doors and engine hood Check that all doors and the engine hood operate smoothly as well as the back door and glass hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.	MA-23	 5
When driving in areas using road salt or other corrosive materials, check lubrication frequently.		(PD)
INSIDE THE VEHICLE The maintenance items listed here should be checked on a regular basis, such as when per- forming 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.		
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 suffi- cient quantity when operating the heater or air conditioning.	_	ST
Steering wheel Check that it has the specified play. Be sure to check for changes in the steer- ing 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 make sure they operate smoothly and that all latches lock securely in every position. Check that the head restrains move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks.		3T
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-23	<u>El</u>
Brakes Check that the brake does not pull the vehicle to one side when applied.	<u> </u>	
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 floor mats away from the pedal.	BR-12, 17	IDX
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-28	
Automatic transmission "Park" mechanism Check that the lock release button on the selec- tor 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.		. [.]

G|

GENERAL MAINTENANCE

Item	Reference page
UNDER THE HOOD AND VEHICLE The maintenance items listed here should be checked periodically (e.g. each time you check the engine oil or refuel).	
Windshield washer fluid Check that there is adequate fluid in the tank.	
Engine coolant level Check the coolant level when the engine is cold.	MA-11
Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections.	_
Brake fluid levels Make sure that the brake fluid levels are between the "MAX" and "MIN" lines on the reservoir.	MA-20
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
Engine oil level Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	MA-14
Power steering fluid level and lines Check the level on the dipstick with the engine off. Check the lines for improper attachment, leaks, cracks, etc.	MA-22
Automatic transmission fluid level Check the level on the dipstick after putting the selector ever in "P" with the engine idling.	MA-17
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-17
Jnderbody 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, he 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 imme- liately.	-

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.

G[]

57

SCHEDULE 1 Follow Periodic Maintenance Schedule 1 if your driving habits frequently includes one or more of the follow-	MA
 ing 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. 	EM
 Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use. Driving in dusty conditions. 	LC
 Driving in dusty conditions. Driving on rough, muddy, or salt spread roads. Towing a trailer, using a camper or a car-top carrier. 	EC
SCHEDULE 2 Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits.	FE
Maintenance for off-road driving	AT
Whenever you drive off-road through sand, mud or water, more frequent maintenance may be required of the following items: ▲ Brake pads and discs	Ţſ
 ▲ Brake lining and drums ▲ Brake lines and hoses ▲ Wheel bearing grease 	PD
 Differential gear oil, automatic transmission and all mode 4WD transfer fluid Steering linkage Propeller shaft and drive shafts 	FA
Air cleaner filter	RA
	BR
	ST
	RS
	BT
	HA
	EL
	el IDX

MAINTENANCE OPERATION Miles × 1 000																
Miles x 1 0						MAL	NTENA	MAINTENANCE INTERVAL	NEK	AL						
	0 3.75		7.5 11.25	15 11	18.75 2	22.5 26.25		30 33.75		37.5 41.25	45	48.75		52.5 56.25	60	
whichever comes first. (km x 1,000) Whichever comes first.	3 (6)	() (12) 6	(18) 9	124)	(30) (5	(36) (4)	(42) (48) 21 24	8) (54) 1 27	(1) (60)	(66)	-	(78)	(84)	(06)	(96)	Reference page
Emission control system maintenance			·		ĺ.						P	P	¥	1	48	
Drive belts		ĺ					-								1	
Air cleaner filter See NOTF	F (1)						- 2								- [01-AM
Vapor lines							Ξ ±	- -							æ	MA-13
Fuel lines							-								<u> </u>	MA-16
							-								÷	MA-12
See NOT	E (2)*															MA-13
olant See NOT	E (3)														ľ	MA-11
Engine oil	Œ	н н	œ	æ	6	æ	E C		1	1	a	α	a	0	- 1	
Engine oil filter (Use Part No. 15208 31U00 or equivalent)	Œ	æ	œ	æ	œ				ł	: cc	: œ	: œ	: œ			MA-14 MA-14
Spark plugs							E	~							Ē	
Timing belt					C C C C	000 000	- 10E		100 /10	Renlace even: 105 000 million /168 000 1)	1				Ē	GT-PM
Chacele and hody mointenence					n at	פרב בא		11 000%	lies (II	1000,80	Ê		ľ			EM-12
Citassis and DOUY Indintenance Brate lines & other																
							_								-	MA-20
Diane paus, uises, orums & imings				-		-	-	_	-		_				_	MA-21
Automatic transmission & all mode 4WD transfer fluid, & See NOTE differential gear oil (exc. LSD)	E (4)			_			-	_	5		-				-	MA-17, 18, 19
see NOT	E (4)			_			E E	~			-				ſ	MA-20
Steering gear, linkage & transfer gear, axle & suspension parts		-				_		[-		-		-		-	MA-22, FA-6, RA-5
Drive shaft boots & propeller shaft		-		-				 			-		-		-	MA-18, FA-10
See NOT	E (5)	-		Г		_		.								MA-19
Steering linkage ball joints & front suspension ball joints		-		_		_		_	-		-		-		-	MA-22, FA-6
ring grease See NOT	E (6)			-			Œ	~			-				œ	FA-6
Exhaust system		-		-		_		_	-		-		-		-	MA-17
Air bag system See NOTE	E (7)															RS-7

PERIODIC MAINTENANCE

Schedule 1

Match of the without the set northing whomenes or morthing the match of the set into	The Number of many synthema on matrix Mare NLOD 1/2 1/2 2 2/2 <th2< th=""><th>15 7.5 <th7.5< th=""> <th7.5< th=""> <th7.5< th=""></th7.5<></th7.5<></th7.5<></th><th>MAINTENANCE OPERATION</th><th>VTION</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>MAI</th><th>NTENANC</th><th>MAINTENANCE INTERVAL</th><th>/AL</th><th>ļ</th><th></th><th></th></th2<>	15 7.5 <th7.5< th=""> <th7.5< th=""> <th7.5< th=""></th7.5<></th7.5<></th7.5<>	MAINTENANCE OPERATION	VTION										MAI	NTENANC	MAINTENANCE INTERVAL	/AL	ļ		
(fm x 1,000) (12) (24) (35) (46) (50) (72) (30) (30) Menths 6 12 13 24 30 35 43 Menths 6 12 13 24 30 36 42 43 Menths 6 12 13 1	Control of system manue, or reach. (par, 100) (12, 2, 9) (9)<	Answer and	-	:			Miles x 1	000'				7.5	15	22.5	30	37.5	45	52.5	60	
Montilia 6 12 13 24 30 36 42 43 Nontilia 1	International system Noticity Noticity<	Memory Memory<	whichever comes fir	ot miles, kitor st.	neters or mo	onths,	(km x 1,((000				(12)	(24)	(36)	(48)	(09)	(72)		. (96)	Reference page
I I	Emission control system maintenance P	Entilision control system maintenance Entilision control system maintenance r monol Relevent Relevent F Monol F Monol Relevent Relevent F Monol F Monol Monol Relevent F Monol F Monol Monol Relevent F F Monol Monol Monol Relevent F F Relevent Monol Monol Relevent Sea MONE F R R R Relevent Entered Sea MONE Relevent Sea MONE Relevent Rele					Months			·		9	12	18	24	30	36	42	48	
Image: See NOTE (1) Image: See NOTE (2) Image: See NOTE (2)<	Dire belay. P P Monton All felleren filler P P P Monton All felleren filler P P P Monton All felleren filler P P Monton P Monton All feller P P P Monton P Monton All feller P P P P Monton Monton All feller P P P P Monton	Diseroids Proceeding Proceedi	Emission contro		ı mainte	nance														
[A] [A] [A] [A] [A] [A] See NOTE (1) .	Arc charace rule FI	Arclando (lot. Arclan	Drive belts												<u>*</u>				<u>*</u>	MA. 10
See NOTE (1) 1 <t< td=""><td>Victor line Figure code Figure code</td><td>Webs Mean Note <t< td=""><td>Air cleaner filter</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td></td><td>Ē</td><td></td><td></td><td></td><td>. ē</td><td></td></t<></td></t<>	Victor line Figure code	Webs Mean Note Note <t< td=""><td>Air cleaner filter</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>÷</td><td></td><td></td><td></td><td>Ē</td><td></td><td></td><td></td><td>. ē</td><td></td></t<>	Air cleaner filter								÷				Ē				. ē	
See NOTE (1)* - <	Ending Ending<	Endine Endine See NOTE (2) I North Equilitation See NOTE (2) I <td< td=""><td>Vapor lines</td><td></td><td></td><td></td><td></td><td></td><td></td><td> ~</td><td></td><td></td><td></td><td></td><td>] ±</td><td></td><td></td><td></td><td></td><td></td></td<>	Vapor lines							~] ±					
See NOTE (1). R <	Collection See MOTE (1) See MOTE (2) And to the set of the	Include See NOTE (); See NOTE (); Number (); Numbe	Fuel lines												- -			-		MA-16
See NOTE (2) R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R R	Ender coust See NOTE (2) And it is the interval of th	Explore cocart Explore	Fuel filter	-			See NO	- i -							-				-	MA-12
R R	Engine ol Engine ol R	Experiencie R <th< td=""><td>Engine coolant</td><td></td><td></td><td></td><td>See NO</td><td>LE (2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>MA-13</td></th<>	Engine coolant				See NO	LE (2)												MA-13
R R	Engree of Meric (Use Part No. 15206 31 UUD or opposite() Engree of Meric (Use Part No. 15206 31 UUD or opposite() R	Experte ordiser (Lue Fart Nu 15226 31/07 or exavaterity R R R R R R R Montal Start Dugs Start Dugs Finite parts Finite finite parts Finite finite parts Finite finite finite finite finite parts Finite finit finite finite finite finite finite finite finite fini	Engine oil										a	a			1	1	źr. 1	MA-11
Image: A constant of the second of the se	State Equit Equit <th< td=""><td>Starte Auge Norme Turarg leit Turarg leit Turarg leit Rechtact areve V (55,000 miles (168,000 km) Erbeite & Kallenge Rechtact areve V (55,000 miles (168,000 km) Bebe führe & Kallenge Rechtact areve V (55,000 miles (168,000 km) Bebe führe & Kallenge In In Auforent: Tatterferion (145) gaar of In In Automatic tatterferion (145) gaar of In In In Automatic tatterferion (145) gaar of In In In In Automatic tatterferion (145) gaar of In In In In In Automatic tatterferion (145) gaar of In In In In In Chorente at tatterferion (145) gaar of In In In In In Chorente at tatter (145) gaar of In In In In In Chorente at tatter (145) gaar of See NOTE (5) L In In In Dive at tatter (145) gaar of See NOTE (5) L In In In Chorente at tatter (150) gaar of See NOTE (5) L L In In Chorente at tatter (151) gaar of See NOTE (5) L L L In Chore</td><td>Engine oil filter (Use Par</td><td>rt No. 15208</td><td>31U00 or ec</td><td>(uivalent)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>c a</td><td>ε α</td><td>r o</td><td>r 0</td><td>MA-14</td></th<>	Starte Auge Norme Turarg leit Turarg leit Turarg leit Rechtact areve V (55,000 miles (168,000 km) Erbeite & Kallenge Rechtact areve V (55,000 miles (168,000 km) Bebe führe & Kallenge Rechtact areve V (55,000 miles (168,000 km) Bebe führe & Kallenge In In Auforent: Tatterferion (145) gaar of In In Automatic tatterferion (145) gaar of In In In Automatic tatterferion (145) gaar of In In In In Automatic tatterferion (145) gaar of In In In In In Automatic tatterferion (145) gaar of In In In In In Chorente at tatterferion (145) gaar of In In In In In Chorente at tatter (145) gaar of In In In In In Chorente at tatter (145) gaar of See NOTE (5) L In In In Dive at tatter (145) gaar of See NOTE (5) L In In In Chorente at tatter (150) gaar of See NOTE (5) L L In In Chorente at tatter (151) gaar of See NOTE (5) L L L In Chore	Engine oil filter (Use Par	rt No. 15208	31U00 or ec	(uivalent)										c a	ε α	r o	r 0	MA-14
Add Dody maintenance Replace every 105,000 miles (168,000 km) Maintenance ables I I I I I I ables I I I I I I I I ables I	Thrue plet Thrue plet Review or 105,000 miles (168,000 miles (150))) MA-27 Refere pads, disse, durns & limites Eden pads, disse, durns & limites I I I MA-27 Refere pads, disse, durns & limites Eden pads, disse, durns & limites Eden pads, disse, durns & limites I I MA-27 Refere pads, disse, durns & limites See NOTE (3) I I I I I MA-27 Refere pads, disse, durns & limites See NOTE (3) I I I I MA-27 Refere pads, disse, durns & limites See NOTE (3) I I I I MA-27 Refere pads, disse, durns & limiter series are either extremely adverse weather conditions or in areas where amble miles (% 000	Three pet	Spark plugs			-										-	-	=	= ē	
allocy maintenance 1 1 1 1 actions all mode AWD transfer fluid, & differential gear oil (exc. LSD) 1 1 1 1 1 cs: drums & linings 1 1 1 1 1 1 1 cs: drums & linings 1 1 1 1 1 1 1 cs: drums & linings all mode 4WD transfer fluid, & differential gear oil (exc. LSD) 1<	Chassis and body maintenance Image of the set outloop maintenance Image outloop maintenance Image of the set outloop maintenance Image outloop maintenance Image outloop mai	Chassis and body maintenance Image is not body maintenance Image is not body maintenance Before lines is caples Enter line, is more it in the intervention of the interventintervention of the intervention of the inten	Timing belt										ά			0 milae (1	2000 Pag		₫	C1-AM
ables 1 1 1 1 1 1 xcs. drums & linings 1 1 1 1 1 1 xcs. drums & linings all mode 4WD transfer fluid, & differential gear oil (exc. LSD) 1 1 1 1 strinssion & all mode 4WD transfer fluid, & differential gear oil (exc. LSD) 1 1 1 1 1 erential (LSD) gear oil 1 1 1 1 1 1 1 inkage & transfer gear, axke & suspension parts 1	Brefer lines 6 cables Deter lines <thdeter li<="" td=""><td>Before larke 6 cables Image 6 tables <</td><td></td><td>dy maint</td><td>enance</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2000</td><td></td><td></td><td>EIMI-</td></thdeter>	Before larke 6 cables Image 6 tables <		dy maint	enance												2000			EIMI-
cs. drums & linings 1 1 1 1 1 mission & all mode 4WD transfer fluid, & differential gear oil (exc. LSD) 1 1 1 1 1 erential (LSD) gear oil 1 1 1 1 1 1 1 erential (LSD) gear oil 1 1 1 1 1 1 1 inkage & transfer gear, axle & suspension parts 1	Breke pade, dess, drums & linings Effeke pade, dess, drums & linings Automatic transmission & all mode 4VD transfer fuldi, & differential (SD) gear of 1 <t< td=""><td>Effecto profe, diece, durine & liftings Effecto profe, diece, durine & liftings Automatic transmission & all mode AVO Transfer fluid, & differential gear oi I I I I I MA21 Limidochen (ESD) gear oi Effecting gear, linkage & littisfer gear, acide & supponsion parrs I I I I MA21 Stering gear, linkage & littisfer gear, acide & supponsion parrs See NOTE (3) I I I I MA22 Drobe shalt boots & propoler shaft I I I I I I MA22 Propoler shaft grease See NOTE (3) L I I I I MA22 Propoler shaft grease See NOTE (4) L L L MA22 Propoler shaft grease See NOTE (4) I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Fort</td><td>Brake lines & cables</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td> -</td><td></td><td> -</td><td></td><td> -</td><td></td><td> _</td><td>MA-20</td></t<>	Effecto profe, diece, durine & liftings Effecto profe, diece, durine & liftings Automatic transmission & all mode AVO Transfer fluid, & differential gear oi I I I I I MA21 Limidochen (ESD) gear oi Effecting gear, linkage & littisfer gear, acide & supponsion parrs I I I I MA21 Stering gear, linkage & littisfer gear, acide & supponsion parrs See NOTE (3) I I I I MA22 Drobe shalt boots & propoler shaft I I I I I I MA22 Propoler shaft grease See NOTE (3) L I I I I MA22 Propoler shaft grease See NOTE (4) L L L MA22 Propoler shaft grease See NOTE (4) I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Forth wheel bearing grease I I I I MA22 Fort	Brake lines & cables					-					-		-		-		_	MA-20
rmission & all mode 4WD transfer fluid, & differential gear oil (exc. LSD) erential (LSD) gear oil rential (LSD) gear oil inkage & transfer gear, axle & suspension parts ts & propeller shaft ts & pr	Adomatic transmission & all mode 4WD transfer ludd, & differential gear ol (exc. LSD) 1	Addromatic transmission & at mode 4WD transfer (ludi, & offerennial gear of (acc. LSD) I I I I I M-17, 18, 19, 19, 18, 14, 10, 12, 10, 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	Brake pads, discs, drum	is & linings					brant .				-		-		. _		. :	MA-01
erential (LSD) gear oil inkage & transfer gear, axke & suspension parts is & propeller shaft is & propeller	Imited-slip differential (ISD) gaar oil Imited-slip differential (ISD) gaar oil Imited-slip differential (ISD) gaar oil Imited-slip state Im	Limited-sip differential (LSD) gaar cli I I I M. 20 Stering gaar (Inforce that Information (LSD) gaar clip and the state fraction (LSD) clip and the state (LSD) cli	Automatic transmission	& all mode 4	VD transfer	fluid, & di	ifferential g		; LSD)						-		-		.	
Inkage & transfer gear, axle & suspension parts ts & propeller shaft ts & propeller shaft fs & propeller sh	Stering gear, inkage & transfer gear, axle & susponsion parts Image & transfer gear, axle & transfer & susponsion parts Image & transfer & susponsin & transin & susponsion Image & transfe	Steering gear, linkage & lansler gear, acte & susponsion parts 1 <t< td=""><td>Limited-slip differential (I</td><td>LSD) gear oil</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>e e</td><td></td><td> -</td><td></td><td></td><td></td></t<>	Limited-slip differential (I	LSD) gear oil											e e		-			
Is & propeller shaft I	Drive shaft boots & propeller shaft Drive shaft boots & propeller shaft grease I<	Drive shalt boots & propeller shaft 1 1 1 MA-18, FA-10 Propeller shaft grease See NOTE (3) L L L MA-18, FA-10 Sterring inkage ball points & from suspension ball points See NOTE (3) L L L MA-18, FA-10 Front where bearing grease See NOTE (3) L L L L MA-15 Front where bearing grease Exhaust system See NOTE (4) I R I R K-35 Front where bearing grease Exhaust system See NOTE (1) if vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, (3) The robolow line (48,000 km) or 24 months. R-3 M-17 More the air bag system See NOTE (1) if vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, (3) The robolow line (48,000 km) or 24 months. R-3 M-17 More the air bag system See Note (1) the replace event replace them immediately. N M-18 More the air bag system See Note (4) N N M-17 M-18 More the option wise (48,000 km) or 4 months. Manternance tems and intervals with """ are recommended	Steering gear, linkage &	transfer gea	, axle & sus	pension p	oarts								-					MA-22, FA-6, RA
grease See NOTE (3) L L L L L L L L L L L L L L L L L L L	Propeller shaft grease Sae NOTE (3) L L MA-19 Steering linkage ball joints & front suspension ball joints Afront suspension ball joints I I MA-22, FA-6 Front wheel bearing grease Front wheel bearing grease I R I MA-22, FA-6 Front wheel bearing grease Front wheel bearing grease I R I MA-22, FA-6 Front wheel bearing grease Exhaust system See NOTE (4) R I R I MA-17 Air bag system See NOTE (4) See NOTE (4) R I I MA-17 Air bag system See NOTE (4) See NOTE (4) See NOTE (4) RS-7 NOTE NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely how or extremely high. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (43,000 km) or 24 months. RS-7 (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (43,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) (4) (5) (4) (5) (6) (6) (7) (7) (7) <t< td=""><td>Propeller shalt grease See NOTE (3) L L M-19 Sterring inkage ball joints & tront suspension ball joints Eterring inkage ball joints & tront suspension ball joints I M<0.22, FA-6</td> Front wheel bearing grease Front wheel bearing grease I M<0.22, FA-6</t<>	Propeller shalt grease See NOTE (3) L L M-19 Sterring inkage ball joints & tront suspension ball joints Eterring inkage ball joints & tront suspension ball joints I M<0.22, FA-6	Drive shaft boots & prop	eller shaft		-							-		-		-		_	MA-18, FA-10
e ball joints & front suspension ball joints arring grease	Steering linkage ball joints & front suspension ball joints Image Image </td <td>Steering linkage ball joints & from suspension ball joints Front wheel braining grease I M.A.22, FA6 Front wheel braining grease I M.A.22, FA6 Exhaust system I R I M.A.22, FA6 Exhaust system I R I M.A.22, FA6 Ar bag system See NOTE (4) I R I R I R A.A.27 Ar bag system See NOTE (4) See NOTE (4) I R I R I R I R I R A.A.27 NOTE: (1) for velocite is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filts immersed in water. RS.7 M.A.17 NOTE: (1) free folloon miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. RS.7 M.A.17 (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. RS.7 M.A.17 (3) The propeller shaft should be re-greased daily if it is immersed in water. RS.7 M.A.18 M.A.17 (3) The propeller shaft should be re-greased daily if 10 (rest adal be whice a mbient temperatures are red not settremely low or extremely high, ma</td> <td>Propeller shaft grease</td> <td></td> <td></td> <td></td> <td>See NO</td> <td>TE (3)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>L_</td> <td></td> <td> _</td> <td></td> <td></td> <td>MA-19</td>	Steering linkage ball joints & from suspension ball joints Front wheel braining grease I M.A.22, FA6 Front wheel braining grease I M.A.22, FA6 Exhaust system I R I M.A.22, FA6 Exhaust system I R I M.A.22, FA6 Ar bag system See NOTE (4) I R I R I R A.A.27 Ar bag system See NOTE (4) See NOTE (4) I R I R I R I R I R A.A.27 NOTE: (1) for velocite is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filts immersed in water. RS.7 M.A.17 NOTE: (1) free folloon miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. RS.7 M.A.17 (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. RS.7 M.A.17 (3) The propeller shaft should be re-greased daily if it is immersed in water. RS.7 M.A.18 M.A.17 (3) The propeller shaft should be re-greased daily if 10 (rest adal be whice a mbient temperatures are red not settremely low or extremely high, ma	Propeller shaft grease				See NO	TE (3)							L_		_			MA-19
aring grease	Front wheel bearing grease Front wheel bearing grease Exhaust system Exhaust system Exhaust system Exhaust system Exhaust system See NOTE (4) Air bag system See NOTE (4) Air bag system See NOTE (4) NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. ★ Maintenance items and intervals with "*" are recommended by INFINIT for reliable vehicle operation. The owner need not perform such maintenanc order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals with """	Front wheel bearing grease I R FA-6 Exhaust system I R I R FA-6 Exhaust system I See NOTE (4) I M-17 M-17 Ar bag system See NOTE (4) I I M-17 M-17 Ar bag system See NOTE (4) Intervention of the extremely adverse weather conditions or in areas where ambient temperatures are either extremely high, if the sum ght become clogged. In such an event, replace them immediately. NOTE: (1) if rwhich is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely high, if the sum ght become clogged. In such an event, replace them immediately. NOTE: (1) if rwhich is operation. NOTE: (1) if rest 60,000 miles (96,000 km) or extremely high, if it is immersed in water. (2) The propeller shart should be re-greased daily if it is immersed in water. (3) The propeller shart should be re-greased daily if it is immersed in water. (4) inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. D D D M (3) The propeller shart should be re-greased daily if it is immersed in water. (3) The propeller shart should be re-greased daily if it is immersed in water. D D D D D D M (3) The propeller shart should be re-greased daily if it is im	Steering linkage ball joir	its & front su	spension ba	II joints							ļ						-	MA-22, FA-6
	 Exhaust system Ar bag system Ar bag system See NOTE (4) Ar bag system See NOTE (4) RS-7 NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. ★ Maintenance items and intervals with "**" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. 	Exhaust system Image: Comparison of the bag system See NOTE (4) Image: Comparison of the bag system NoTE: (1) if vehicle is operated under extremely adverse weather conditions or in areas where amblent temperatures are either extremely low or extremely high, if the smight become clogged. In such weather conditions or in areas where amblent temperatures are either extremely low or extremely high, if the propeller shaft should be re-greased daily if it is immersed in water. Image: All the state 60,000 km or 48 months, replace every 30,000 km or 24 months. Image: All the state amblent temperatures are either extremely low or extremely high, if it is immersed in water. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. Image: All the propeller shaft should be re-greased daily if it is immersed in water. Image: All the propeller shaft should be re-greased daily if it is immersed in water. (3) The propeller shaft should be re-greased daily if it is immersed in water. All the owner need not perform such maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. Difference (2) Maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. Difference Difference Difference	Front wheel bearing grea	ase									-		œ		-		۳ ۳	FA-6
	 Air bag system Air bag system Air bag system NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. ★ Maintenance items and intervals with "*" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. 	Air bag system See NOTE (4) is been NOTE (4) See NOTE (4) See NOTE (4) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (43,000 km) or 24 months. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (43,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. (5) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. (5) The propeller shaft should be re-greased daily if it is immersed in water. (5) The propeller shaft should be re-greased daily if it is immersed in water. (6) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. (7) Inspect the air bag system 10 years after the date of manufacture recall liability. Other maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. (6) Inspect the air bag system 10 years after recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. (7) MM M M M M M M M M M M M M M M M M M	Exhaust system												-					MA-17
See NOTE (4)	 NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. ★ Maintenance items and intervals with "**" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenanc order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals with "**" 	NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, filters might become clogged. In such an event, replace them immediately. (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (3) The propeller shaft should be re-greased daily if it is immersed in water. (4) Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label. * Maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. * Maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. * Maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. * Maintenance items and intervals with """ are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required. * Maintenance items and intervals with """ and "	Air bag system				See NO ⁻	FE (4)												RS-7
				IDX	EL	HA	BT	RS	ST	BR	RA	FA	PD	jj	AT	FĒ	EC	ЦĊ		

PERIODIC MAINTENANCE

Schedule 2

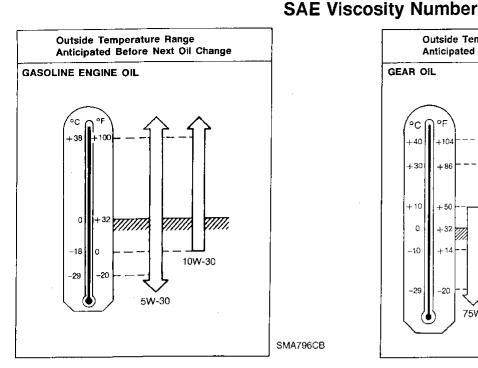
	C	apacity (Approximat	e)	
	US measure	Imp measure	Liter	Recommended Fuel/Lubricants
Engine oil (Refill)				
With oil filter	3-7/8 qt	3-1/4 qt	3.7	API SG or SH and Energy Conserving II*1
Without oil filter	3-5/8 qt	3 qt	3.4	API Certification Mark*1
Cooling system (With reservoir)	11-1/4 qt	9-3/8 qt	10.6	Anti-freeze coolant (Ethylene glycol base)
All mode 4WD transfer fluid	3-1/8 qt	2-5/8 qt	3.0	Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Trans- mission Fluid (Canada)*6
Differential gear oil				
Front	4-3/8 pt	3-5/8 pt	2.05	Standard differential gear: APł GL-5*1 Limited-slip differential (LSD) gear:
Rear	5-7/8 pt	4-7/8 pt	2.8	Use only LSD gear oil API GL-5 and SAE 80W-90*4 approved for Nissan LSD*5.
Automatic transmission fluid	9 qt	7-1/2 qt	8.5	Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Trans- mission Fluid (Canada)*2
Power steering fluid	_	_	_	Type DEXRON [™] IIE, DEXRON [™] III or equivalent
Brake fluid				Genuine Nissan Brake Fluid*3 or equivalent DOT 3 (US FMVSS No. 116)
Propeller shaft grease	ngalipate.	_		NLGI No. 2 (Molybdenum disulphide lithium soap base)
Multi-purpose grease				NLGI No. 2 (Lithium soap base)

Fluids and Lubricants

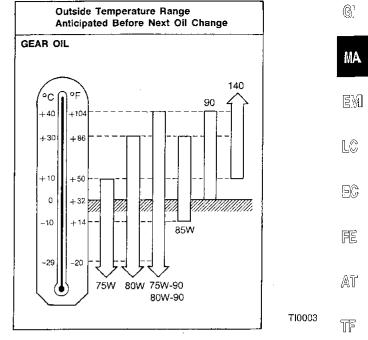
 *1: For further details, see "SAE Viscosity Number".
 *2: Dexron[™] III/Mercon[™] or equivalent may also be used. Outside the continental United States and Alaska contact an INFINITI dealership for more information regarding suitable fluids, including recommended brand(s) of Dexron[™] III/Mercon[™] or Dexron[™] IIE/Mercon[™] Automatic Transmission Fluid.

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

*4: SAE 90 is acceptable in ambient temperatures above -18°C (0°F).
*5: Contact an INFINITI dealer for a list of approved oils.
*6: Outside the continental United States and Alaska contact an INFINITI dealership for more information regarding suitable fluids, including recommended brand(s) of Dexron[™] III/Mercon[™] Automatic Transmission Fluid.



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



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

PD

FÅ

BR

ST

Anti-freeze Coolant Mixture Ratio

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

CAUTION:

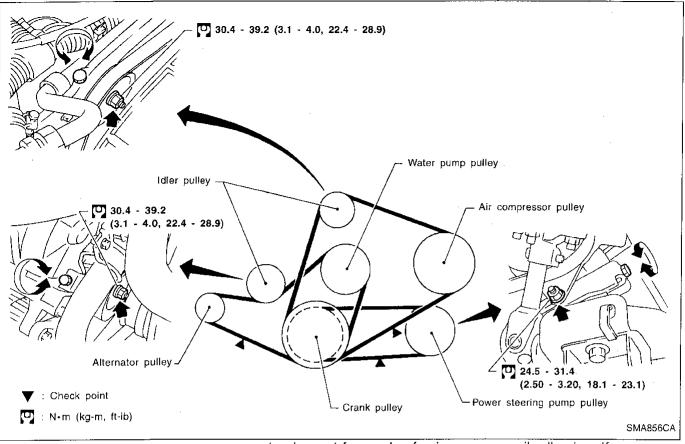
When adding or replacing coolant, be sure to use only an ethylene glycol anti-freeze with the proper mixture ratio of 50% anti-freeze and 50% soft water.

	emperature <i>r</i> n to	Anti- freeze	Soft water	RS
°C	°F	116626	water	
-35	-30	50%	50%	Bĩ

Other types of coolant solutions may damage your cooling system.

킨

Checking Drive Belts

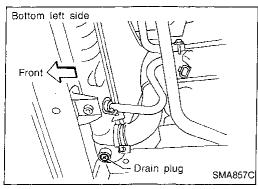


- 1. Inspect for cracks, fraying, wear or oil adhesion. If necessary, replace with a new one.
- 2. Inspect drive belt deflections by pushing on the belt midway between pulleys.

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

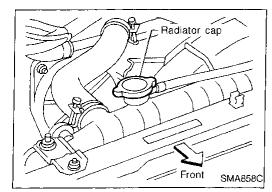
Unit: mm (in)

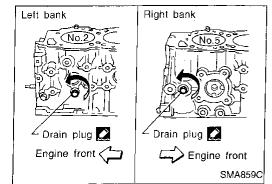
	Used belt	deflection	Deflection of new
	Limit	Deflection after adjustment	belt
Alternator	10.5 (0.413)	6 - 7 (0.24 - 0.28)	5.5 - 6.5 (0.217 - 0.256)
Air conditioner compressor	16.5 (0.650)	9 - 11 (0.35 - 0.43)	9 - 10 (0.35 - 0.39)
Power steering oil pump	18 (0.71)	9 - 10 (0.35 - 0.39)	9 - 11 (0.35 -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

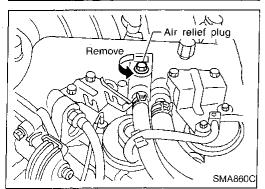


Changing Engine Coolant

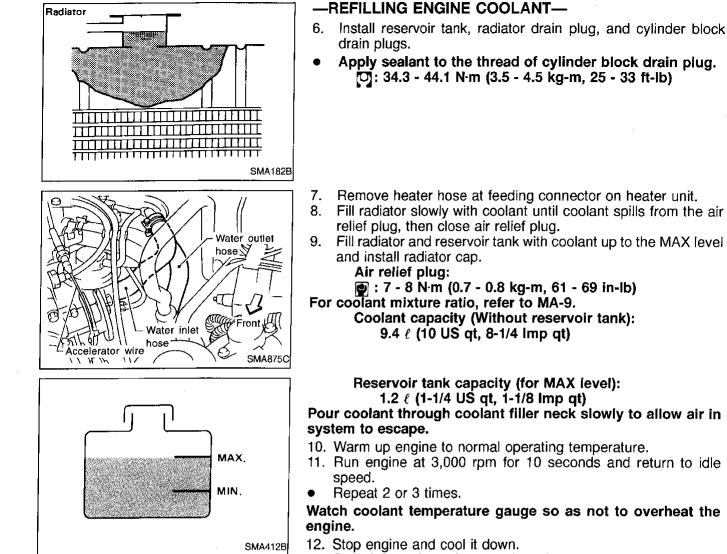
WARNING: To avoid the danger of being scalded, never change the coo ant when the engine is hot.	GI -
-DRAINING ENGINE COOLANT	MA
 Set air conditioning system as follows to prevent coolant from remaining in the system. Turn ignition switch "ON" and set temperature controller to 	EM
 b. Wait 10 seconds before turning ignition switch "OFF". 2. Open radiator drain plug at the bottom of radiator. 	LC
	EC
	AT
	ĨĿ
 Remove radiator filler cap. Remove reservoir tank, drain coolant, then clean reservoi tank. 	r (PD)
 Install it temporarily. Be careful not to allow coolant to contact drive belts. 	FA
	RA
	BH
 Open drain plugs on both sides of cylinder block and water pump side, then open air relief plug to drain coolant. Flush cooling system by running fresh water through radiator. 	91
o. Thish cooling system by funning resh water through faulator.	RS
	BĮ
	HA
	EL
	IDX







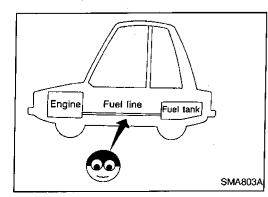




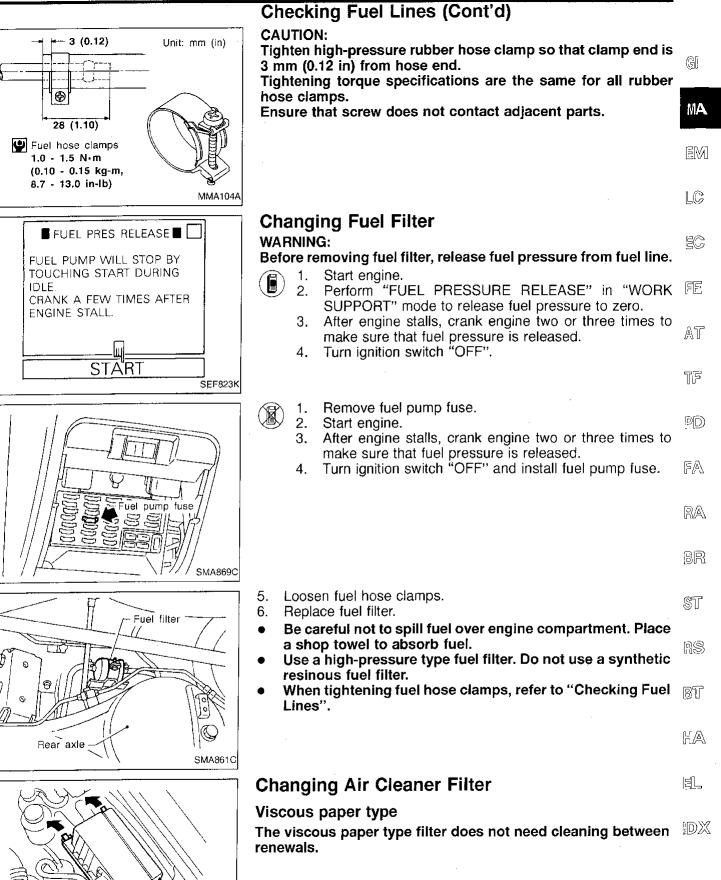
- Cool down using a fan to reduce the time.
- 13. Remove the radiator filler cap and check coolant level.
- If necessary, refill radiator up to filler neck with coolant.
- 14. Refill reservoir tank to Max line with coolant.
- 15. Repeat step 10 through step 14 two or more times.
- 16. Warm up engine, and check for sound of coolant flow while running engine from idle up to 3,000 rpm with heater temperature control set at several positions between COOL and HOT.
- Sound may be noticeable at heater water cock.
- 17. If sound is heard, bleed air from cooling system by repeating steps 10 through 14 until coolant level no longer drops.
- Clean excess coolant from engine.

Checking Fuel Lines

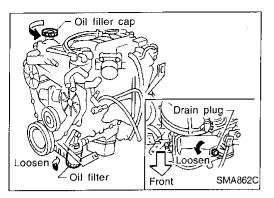
Inspect fuel lines and tank for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration. If necessary, repair or replace faulty parts.



ENGINE MAINTENANCE



SMA865C



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. Stop engine and wait for more than 10 minutes.
- 3. Remove drain plug and oil filler cap.
- 4. Drain oil and refill with new engine oil.
- Oil specification and viscosity
- API SG or SH and Energy Conserving II
- API Certification Mark
- See "RECOMMENDED FLUIDS AND LUBRICANTS", MA-8.

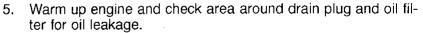
Refill oil capacity (Approximately) :

Unit: *ℓ* (US qt, Imp qt)

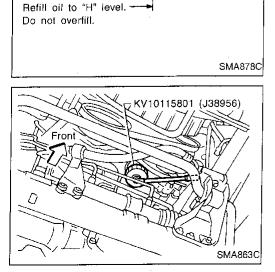
With oil filter change	3.7 (3-7/8, 3-1/4)
Without oil filter change	3.4 (3-5/8, 3)

CAUTION:

- Be sure to clean drain plug and install with new washer. Oil pan 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.



- 6. Stop engine and wait for more than 10 minutes.
- 7. Check oil level.



Н

Changing Oil Filter

1. Remove oil filter with Tool.

WARNING:

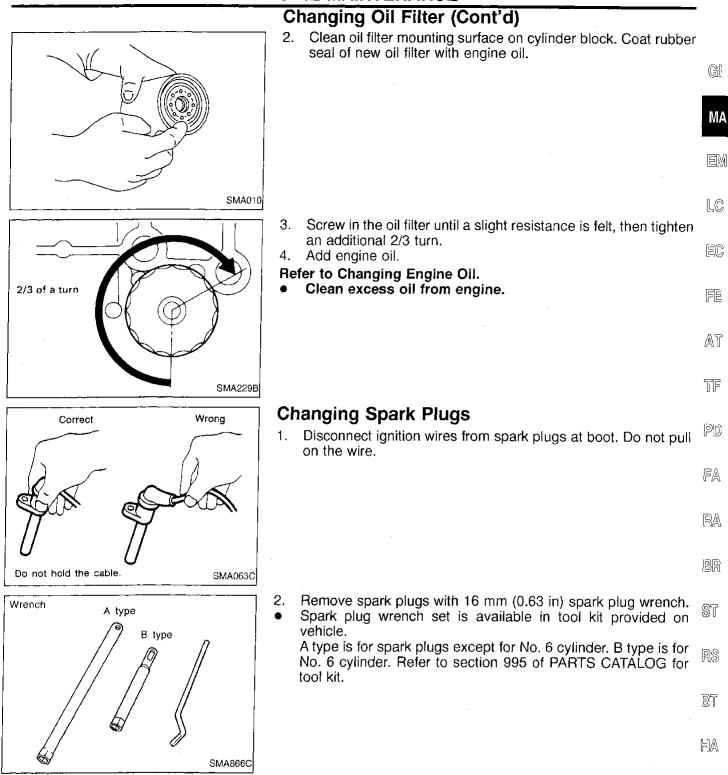
Be careful not to burn yourself, as the engine and engine oil are hot.

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

Refer to LC section ("Oil Filter", "ENGINE LUBRICATION SYSTEM").

MA-14

ENGINE MAINTENANCE



EL

1DX

ENGINE MAINTENANCE

Soo Front Front Type B wrench SMA867C

Changing Spark Plugs (Cont'd)

3. Check type and gap of new spark plug. **Spark plug type:**

	Symbol	Make
Standard type	BKR5ES-11	NGK
Cold type	BKR6ES-11	NGK
Hot type	BKR4ES-11	NGK

Use standard type spark plug for normal condition.

The hot type spark plug is suitable when fouling may occur with the standard type spark plug such as:

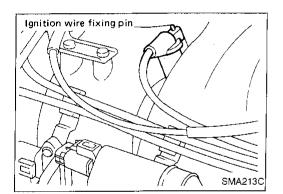
- frequent engine starts
- low ambient temperatures

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

- extended highway driving
- frequent high engine revolution

Gap:

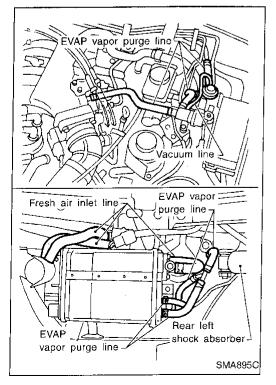
1.0 - 1.1 mm (0.039 - 0.043 in)



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

Spark plug:

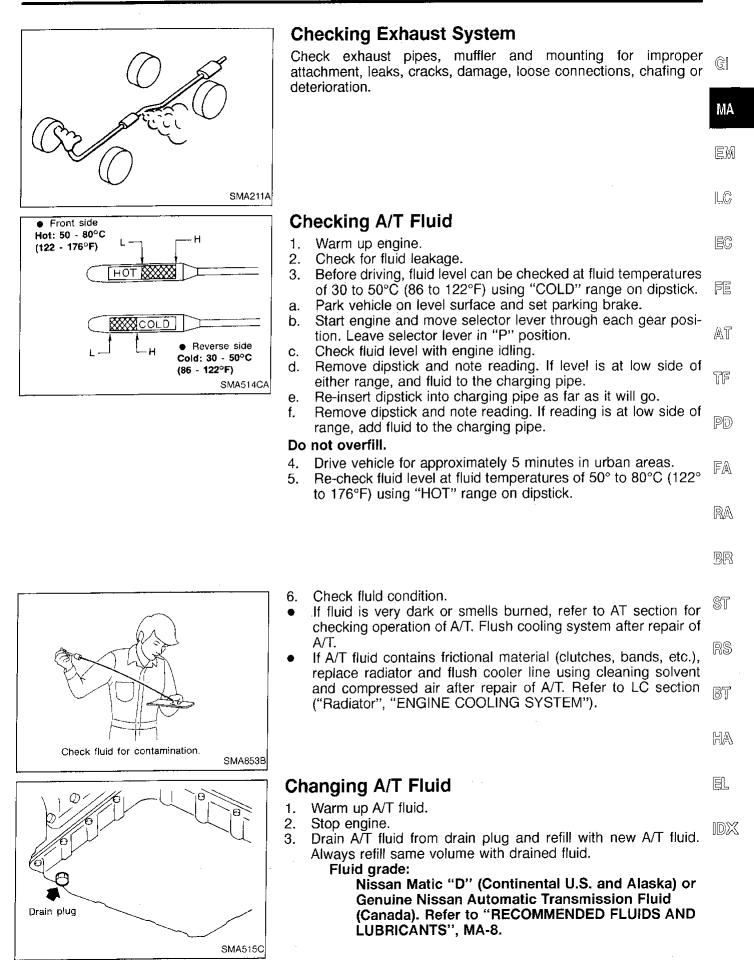
(2.0 - 29 N·m (2.0 - 3.0 kg-m, 14 - 22 ft-lb)



Checking EVAP Vapor Lines

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

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



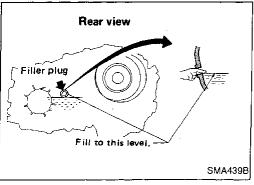
MA-17

Changing A/T Fluid (Cont'd)

Fluid capacity (With torque converter): 8.5 ℓ (9 US qt, 7-1/2 Imp qt)

Drain plug:

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

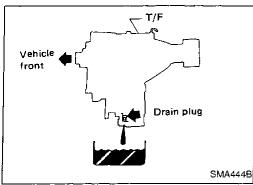


Checking All Mode 4WD Transfer Fluid

Check for oil leakage and fluid level.

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

Changing All Mode 4WD Transfer Fluid



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

Fluid grade:

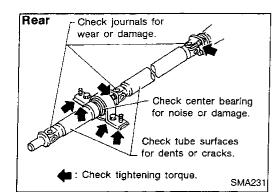
Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada) Refer to "RECOMMENDED FLUIDS AND

LUBRICANTS", MA-8.

Fluid capacity:

3.0 ℓ (3-1/8 US qt, 2-5/8 lmp qt)

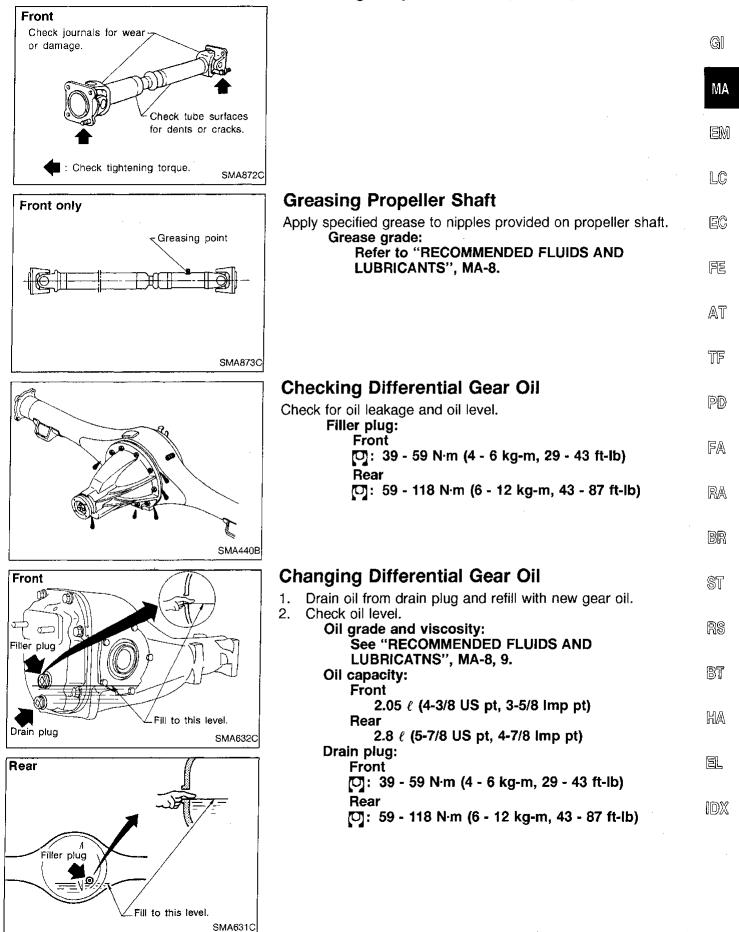
- Drain plug:
- 🔮 : 10 20 N·m (1.0 2.0 kg-m, 87 174 in-lb)



Checking Propeller Shaft

Check propeller shaft for damage, looseness or grease leakage. Tightening torque: Refer to PD section.

Checking Propeller Shaft (Cont'd)



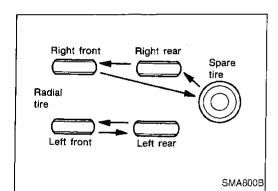
Changing Differential Gear Oil (Cont'd) Limited-slip differential gear

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

Balancing Wheels

Adjust wheel balance using the road wheel center.

Wheel balance (Maximum allowable unbalance): Refer to SDS, MA-24.



Max. line

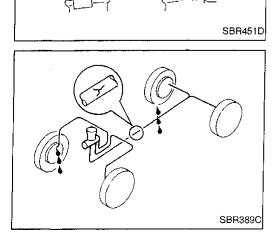
Min. line

Tire Rotation

- After rotating the tires, adjust the tire pressure.
- Retighten the wheel nuts after the aluminum wheel has been run for the first 1,000 km (600 miles). (also in cases of a flat tire, etc.)
 - Wheel nuts:
 - 🖸: 118 147 N·m (12 15 kg-m, 87 108 ft-lb)

Checking Brake Fluid Level and Leaks

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



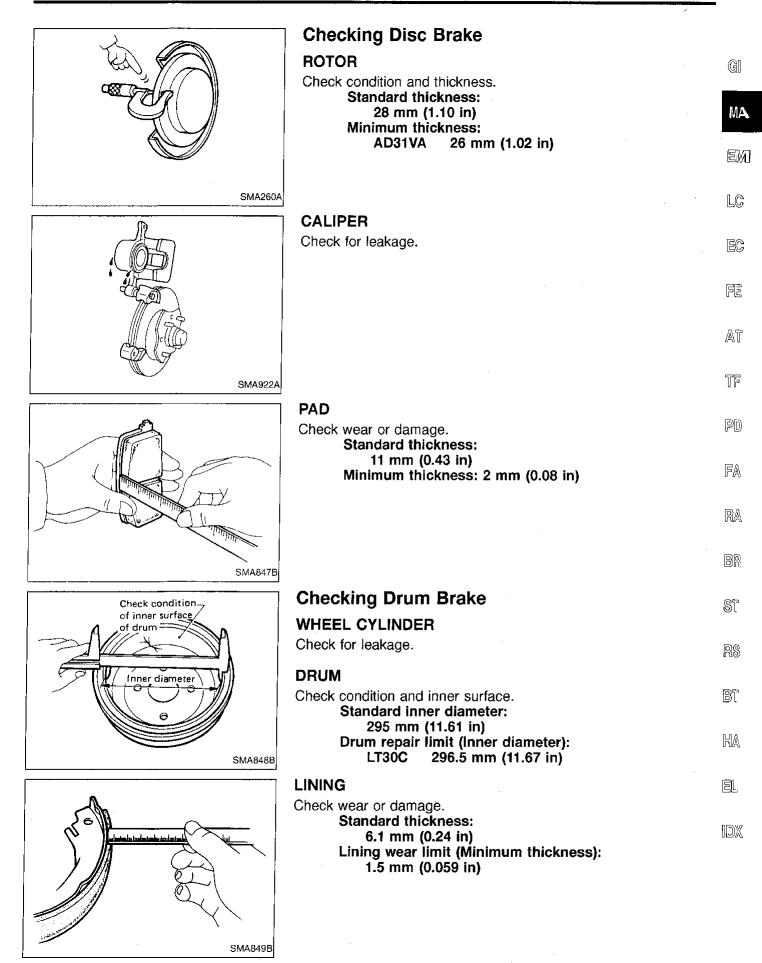
MAX

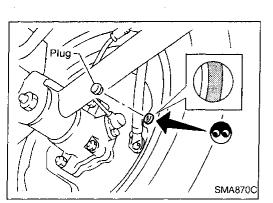
MIN

Checking Brake Lines and Cables

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

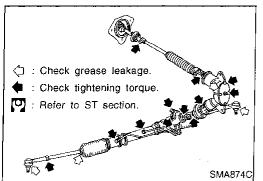
οк





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

Remove inspection hole plug and check for lining wear.



Checking Steering Gear, Linkage and Transfer Gear

STEERING GEAR

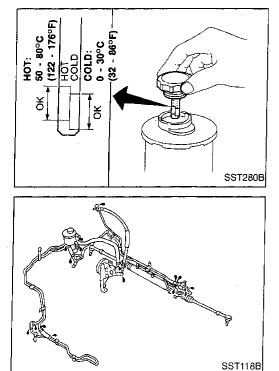
- Check gear housing and boots for looseness, damage or grease leakage.
- Check connection with steering column for looseness.

STEERING LINKAGE

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

STEERING TRANSFER GEAR

• Check gear box for looseness, damage or grease leakage.



Checking Power Steering Fluid and Lines

CHECKING FLUID LEVEL

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

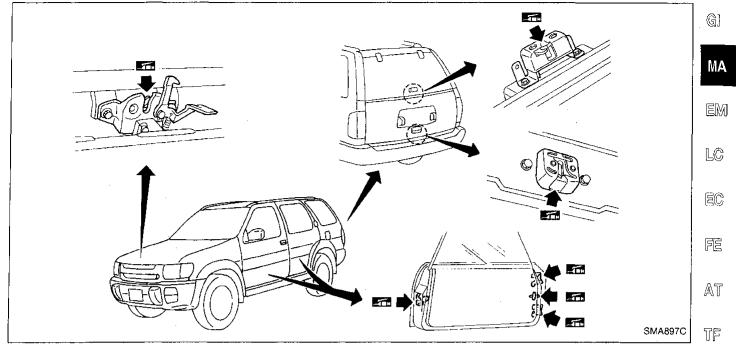
CAUTION:

- Do not overfill.
- Recommended fluid is Automatic Transmission Fluid type DEXRON[™] IIE, DEXRON[™]III or equivalent.

CHECKING LINES

- Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing or deterioration.
- Check rack boots for accumulation of power steering fluid.

Lubricating Locks, Hinges and Hood Latches



Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

CAUTION:

 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 properly operating after minor collision.

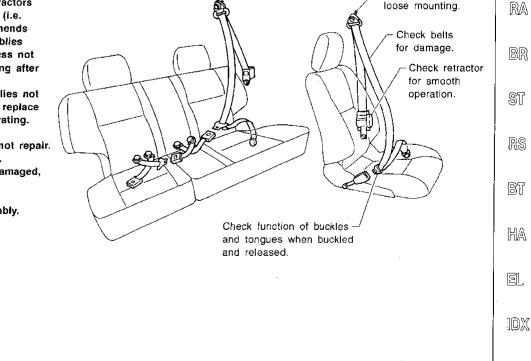
Also inspect seat belt assemblies not in use during a collision, and replace if damaged or improperly operating.

- If any component of seat belt assembly is questionable, do not repair. Replace as seat belt assembly.
- If webbing is cut, frayed, or damaged, replace belt assembly.
- Never oil tongue and buckle.

Anchor bolt

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

• Use a genuine seat belt assembly.



SMA854C

PD

FA

Check anchors for

Engine Maintenance

INSPECTION AND ADJUSTMENT

Drive belt deflection

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

Spark plug type

Standard type	BKR5ES-11 BKR6ES-11		
Cold type			
Hot type	BKR4ES-11		
Plug gap	1.0 - 1.1 mm (0.039 - 0.043 in)		

Chassis and Body Maintenance

INSPECTION AND ADJUSTMENT

Wheel balance

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