STEPOLARE

MAINTENANCE

A644Ndisbbel/site is the following items as shown in the SECTIONS.

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ENERAL MA						See NOTE 125"		MA- 4
MA-10				.,				- I till fortio amigin
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Committee of the Commit					Bulbun A	ALCOHOLD TO		MA-37
PECIAL SERV	VICE TOO	LS			145 00 Svibus s	A RAINFARMANT	Landonnes gran	MA-37
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PECIAL SERV	VICE TOO	LS		-	Ewry		608-67	MA-37 receiled each applied shade applied shade applied shade applied shade applied shade applied to the same applied to the s
PECIAL SERV	VICE TOO!	LS	off off offic blane that cook,	-	Ewry	30,000 miles	608-67	MA-37 result set in the Market set of the Market
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PECIAL SERV	VICE TOO!	LS	and and bank, when and the same	FI FI DO	Every LAB, OD Every LAA, 300 Every 0, t x and 000 00; t x mit)	15 000 miles 15 000 miles 15 000 miles 15 000 miles 17 500 miles	TI.EM BI.AM STON TION	Jae Nissan PTC-AM Intrich sites Interpretation of the control of the contro
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MA-14 ER-20 CO CO Partecence page CO CO CO	VICE TOO! sellim 000.00 Attavalante framing 6 11 L.S.D.1 sellim 000.00 Stand occupante JA (RETAIN) OR STAND OCCUPANTE JA (RETAIN)	C years and some open on the some on the s	Maria Maria Maria Maria Maria Const. Maria Ma Maria Ma Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Maria Ma Ma Maria Ma Maria Maria Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	F - 00	Every LAB, 002 Every LAA, 300 Every 0, t x assist 00; t x mil) witnoM	50,000 miles 0 km) by 74 minnins 15,000 miles 0 km) by 17 minnins 2 SOO miles 0 km) by 17 minnins 7 SOO miles 0 km) by 6 moretis	T1.5)/A BI-AM PION TION TION Onto Disc. Address to amission & differents 3.0,1 get oil 3.0,1 get oil 5 sale & ungenzion oil 6 front singension be	Jae Nissan PTS-AM park of up. printion some Printing belt MINTENANCE OPENA Perform at number of a

- NOTE: (1) After 80,000 miles (86,000 km) or 48 months, impact every 15,000 miles (24,000 km) or 12 months.
- (2) If vehicle is operated under actumely adverse weather conditions or in group where ambient temperatures are either extremely high, the filters might become alonged. In such an event, replace them immediately.
 - (3) Maintanance Items and Intervals with "* are recommended by NISSAN for reliable vehicle operation.
- The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability, Oriver maintenance items and intervals are required.

Abbreviations: R = Replace.

I * Inspect. Correct or replace if recessery

PERIODIC MAINTENANCE

The following charts show the normal maintenance schedule. Under severe driving conditions, additional or more frequent maintenance will be required. Refer to "Maintenance under severe driving conditions".

The periodic maintenance schedule is repeated beyond the last mileage and period shown by returning to the first 15,000 miles (24,000 km) or 12 months.

EMISSION CONTROL SYSTEM MAINTENANCE

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		123		1-3	10		18	1 1 1 1 1 1 1	
MAINTENANCE OPERATION		112		MAI	NTENANCE	INTE	RVAL	1	
Perform at number of miles, kilometers	Miles x 1,000		5	7,5	15	30	45	60	
or months, whichever comes first.	(km x 1,000)		(8)	2 (12)	(24)	(48)	(72)	(96)	Reference pag
	Months		6	6	12	24	36	48	
Drive belts	See NOTE (1)	42		619.	- 31		01 ,	1×	MA-8
Air cleaner filter	1.20	46		4.7	Repl		ry 30,000 m	niles	MA-B
Vapor lines	1.5	74		7.5	54	1.	- 88	1.	MA-8
Fuel lines (hoses, piping, connections, etc.)	*** * * * * * * * * * * * * * * * * * *	1.01/01/11		10.0011	11-1100	. 43	SUKIAN	12 15112	MA-9
Fuel filter	See NOTE (2)*	-0.4		V.00	1 1 1 1		POMON	OTHER	MA-9
Engine coolant	1.20	21	7	2.1	1.0	R	725	R	MA-10
Engine oil A-AM	Except turbocharged	engine	_	R	7,50	00 mile	place every s (12,000 kr months.		MA-12
71 at-AW910.0	Turbocharged engine	14311	R	US ISD	-1 -7 E 170-2N	00 mile	place every es (8,000 kn months.	008 0	MA-12
Engine oil filter	Except turbocharged engine		R	Ther	replac	e every seco	ond	-	
(Use Nissan PREMIUM type or equivalent.)	Turbocharged engine	777 11	R	1787	1.17.62	- oil o	change.	DUN	MA-12
Spark plugs	1.8	127		13.0	Repla		ry 30,000 m 000 km).	iles	MA-13
Ignition wires	1.0	175		10.00	Ins	pect ev	ery 3 years		MA-14
Idle rpm (Except turbocharged engine)						12		1.	MA-15
Timing belt	1.26	29		3.0	Repla		ry 60,000 m 000 km).	illes	EM-8
Property was a second of the s	1 1 4	7		0.2	8.42			10.00	-6-0
CHASSIS AND BODY MAINTEN	NANCE 15	59		6,0	43		70	7.1	51
MAINTENANCE OPERATION	1.25	62		6.3	MAINT	TENAN	CE INTER	VAL 7.5	54
Perform at number of miles, kilometers or months, whichever comes first.	1.78	Miles x 1	100-		15 72	30 (48)	45 (72)	60 (96)	Reference page
00,00	1.25	Months		11.0	12	24	36	48	101
Brake lines & hoses	111	1.17		10.71	1	1	ndo	1	MA-25
Brake pads & discs	1,0			10.4	1 100	1		11.00	MA-26
Manual and automatic transmission & different	ial (exc, L,S.D.) gear oil				1	Ť	1	1	MA-17, 18, 19
Limited-slip differential (L.S.D.) gear oil					1	R	1	R	MA-19
Steering gear & linkage, and axle & suspension	parts					ï		1	MA-20, 21, 33
Steering linkage ball joints & front suspension b		wing						1	MA-20
Front wheel bearing grease	Maria e		- 1	Nomina	il diameti	H I		Ī	MA-21
Exhaust system					T.	i	r	ï	MA-16

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

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

PERIODIC MAINTENANCE

MAINTENANCE UNDER SEVERE DRIVING CONDITIONS ametic acoustic acceptation lessoned

The maintenance intervals shown on the preceding pages are for normal operating conditions. If the vehicle is mainly operated under severe driving conditions as shown below, more frequent maintenance is required to be performed on the following items as shown in the table.

Severe driving conditions

- A Repeated short trips less than 5 miles (8 km) and outside temperatures remain below freezing
- B Extensive idling and/or low speed driving for a long distance such as police, taxi or door-to-door delivery use work and a such as police, taxi or door-to-door delivery use work and a such as police, taxi or door-to-door delivery use

a service station, including the spark/rame adjust to the specified pressure if necessary. Check carefully for damage,

Wheel nuts When checking the tires, make sure no nuts are

washer operate properly and that the wipers do not streak.

duts or excessive wear

- C Driving in dusty conditions
- D Driving on rough, muddy, or salt spread roads
- E Towing a trailer, using a camper or a car-top carrier.

Driving condition	Maintenance item	Maintenance operation	Maintenance Reference pag	e ator oriT
iown Cassastbacks.	Air cleaner filter	R	More frequently MA-8	m 008,5
A B C D E	Engine oil & oil filter	and P	Every 3,000 miles (5,000 km) or 3 months	
A. CDE	Brake pads & discs	DEMONTY.	Every 7,500 miles (12,000 km) MA-26	
for outs, pregng, weer Accelerator pedal Che	Manual and automatic trans- mission & differential (exc. L.S.D.) gear oil	peration	Every 30,000 miles (48,000 km) or 24 months MA-17, 19	ibrates a reeded.
ittire. D E	Limited-slip differential (L.S.D.) gear oil	R	Every 15,000 miles (24,000 km) or 12 months MA-19	leidsbai V
Chitch pipel Make sur		My anti	MA-20, 21, 33 Every 7,500 miles	Vindshiel
C D Briskis/GOOH GMA (8)			(12,000 km) or 6 months MA-20	
one side when applied		LATE	rate smoothly as well as the trunk lid and back	ado poor
A D E	Exhaust system	1	BESTON NETWORK AND LEGISLE MA-16	Bally
Maintenance operations:	I = Inspect. Correct or replace	if necessary.	R = Replace.	necessa rood fron
NEWSHID FRITZ PRINCE SEA			ving in areas using road salt or other corrosive	alv. covitil
				11111-11241-01
Parking broke Chark III	lat the least has the proper to	avel and	. CHECKING PARWITHDARK AND DISCHOLLER	
	nat (the learn has the proper to the in held securely on a fail		* CHECKING PARWITMENTA MEDICIDAL NOSA	matarials,
confirm that your veh	into its held securely give a fall ing brake applied.	пу инер	* CHECKING PARWINGER STREAM DAINS * THE VEHICLE	natariels INSIDE
dev ruoy radt mrifnos that ens yind dow the dic maintenence, clear	into in held recordly on a fall ing brake applied. of requirementary north as rise	quier books, su	check lubricigian fraction that DAINDEHD • THE VEHICLE transite frame listed here should be checked on a re-	natarials, INSIDE The mair
onfirm that your vehicles that the discussion of the large of the discussion of the	into its held securely give a fall ing brake applied.	quier posts, su quier bosis, su that the	check lubricialists fraction that DALADERD THE VEHICLE menance from listed here should be checked on a re- phicle, etc.	natorials INSIDE The mair ing the v
confirm that your vehicle of the line did th	ng brake applied, of segments of series of the of segments of series of the series of "Park" machanism Check	rly steep us select relug that the property	check lubricialists fractions for DALADEHO THE VEHICLE transacte frame listed here should be checked on a rephicle, etc. phicle, etc. ake sure that the headlights, stop lights, tail lights,	materials INSIDE The mair ing the vi
confirm that your vehicle with only the park that with only the park that a construction of the constructi	nte is held securely on a fail ing brake applied, of segmentage north as de in "Park" machanism Check is the selector lever operates	riy meep us ,eleed relug that the properly r vehicle	check lubricigian fractions part DALNOSHO = THE VEHICLE trenance from listed here should be checked on a re phicle, etc. ake sure that the headlights, stop lights, tail lights, al lights, and other lights are all operating properly	natariels INSIDE The mair ing the vi Lights M turn sign
confirm that your vehicle of the party of the firm of the firm of the party of the	ing brake applied, on a fall ing brake applied, of tog gni motted north as ris in "Park" mechanism Check the selector lever operates the selector lever in the "P	riy meep us ,eleed relug that the properly r vehicle	check lubricialise fractions for DALADEHO FITHE VEHICLE trenance from listed here should be checked on a rephicle, atc. shicle, atc. ake sure that the headlights, stop lights, tail lights, all lights, and other lights are all operating properly lied securely. Also check headlight aim.	natarials INSIDE The main ing the ve Lights M turn sign and insta
confirm that your vehicle with only one park half with only one park half maintenance, clean all formation or the control of t	ing brake applied, on a fall ing brake applied, of tog gni motted north as ris in "Park" mechanism Check the selector lever operates the selector lever in the "P	riy meep us ,eleed relug that the properly r vehicle	check lubricigian fractions part DALNOSHO = THE VEHICLE trenance from listed here should be checked on a re phicle, etc. ake sure that the headlights, stop lights, tail lights, al lights, and other lights are all operating properly	natarials, INSIDE The maining the voluments M Lights M turn sign and insta
confirm that your vehicle with only one park had with only one park had been also been and an arranged to the confirmation of	ing brake applied, on a fall ing brake applied, of tog gni motted north as ris in "Park" mechanism Check the selector lever operates the selector lever in the "P	riy meep us ,eleed relug that the properly r vehicle	check lubricigian fractions part DALADAHO et the VEHICLE transcriber itsems listed here should be checked on a rephicle, etc. ake sure that the headlights, stop lights, tail lights, all lights, and other lights are all operating properly lights securely. Also check headlight aim. lights and buzzers/chimes Make sure that all warm.	natarials, INSIDE The main ing the vertical to

GENERAL MAINTENANCE

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

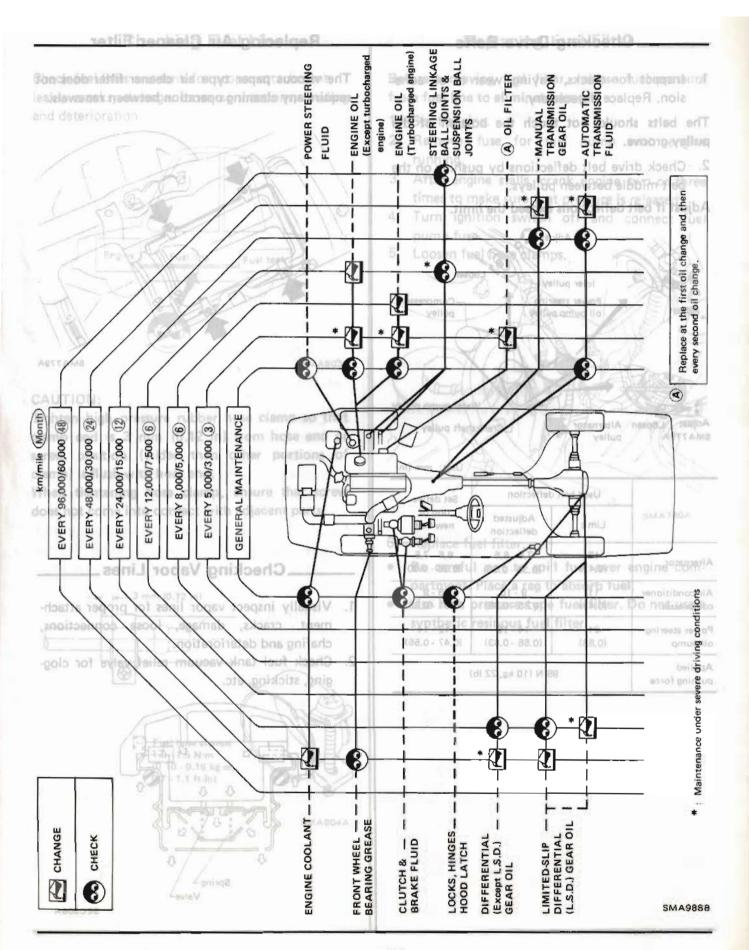
Item	Reference item in MA section
OUTSIDE THE VEHICLE	Reposted short trips loss than 5 miles (6-km) and
The maintenance items listed here should be performed from	
Tires Check the pressure with a gauge periodically when at a service station, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.	CHECKING TIRE CONDITION conditions conditions
Wheel nuts When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.	TIRE REPLACEMENT Wheel nut
Tire rotation Tires should be rotated every 12,000 km	noi ● TIRE ROTATION
(7,500 miles). BAM yanayan make	A All Shirt Hills. B
Wheel alignment and balance If the vehicle should pull to	CHECKING TIRE CONDITION
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	Abnormal tire wear CHECKING WHEEL ALIGNMENT WHEEL INSPECTION
vibrates at normal highway speeds, wheel balancing may be needed.	MANA mission & differential (exc.
Windshield glass Check for abrasions or scratches.	A Telfford to our setting " D. C
Windshield wiper blades Check for cracks or wear if they do not wipe properly.	Steering gear & linkage, and sole & suspension parts
Doors and engine hood Check that all doors and the engine hood operate smoothly as well as the trunk lid and back hatch. Also, ensure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive	LUBRICATING LOCKS, HINGES AND HOOD LATCH metrys tripers .vicensin is expliced or replace if mechanics
materials, check lubrication frequently.	
INSIDE THE VEHICLE	MA 21
The maintenance items listed here should be checked on a reing the vehicle, etc.	range 16 000 miller 124 000 lond on 12 modella.
Lights Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.	orditions or in arms where ambient temperatures are differ to closped. In such an event, replace their instelliabily that he NISSAN for reliable vehicle reperation. In managing the emission warranty of homelfactures recall factory
Warning lights and buzzers/chimes Make sure that all warning lights and buzzers/chimes are operating properly.	iii iil meanstatist
Horn Make sure it operates properly.	H:
Windshield wiper and washer Check that the wipers and washer operate properly and that the wipers do not streak.	

GENERAL MAINTENANCE

Reference It meth MA section	Reference item in MA section
Windshield defroster Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.	NDER THE HOOP AND VEHICLE AND SHOULD BE THE
Rear view mirror Make sure that it is secure.	Vindshield washer fluid Check that there is adequate fluid or the tank.
Sun visors Make sure that they can be moved freely and are secure.	ngine coolant level Check The coolant level when the
Steering wheel Check that it has the specified free play. Be sure to check for changes in the steering condition, such as excessive free play, hard steering or strange noises.	Specification Free play: Less than 35 mm (1.38 in)
Seats Check seat position controls such as seat adjust- ers, seatback recliner, etc. to ensure they operate smoothly and that all latches lock securely in every position. Check that the head restraints move up and down smoothly and that the locks (if so equipped) hold securely in all latched positions. Check that the latches lock securely for folding- down rear seatbacks.	Harton fluid levels are that the brake and fluid levels are that the brake and fluid levels are between the 'Alax" and 'MHN" from the ceservoir.
Salt belts Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly, smoothly and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.	INSPECTING SEAT BELTS, BLUCKLES, ANCHORS, RETRACTORS AND ADJUSTER
Accelerator pedal Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort.	ne muld is cold and the engine is turned off. Check the nes for proper attachment, leaks, cracks, etc.
Clutch pedal Make sure the pedal operates smoothly and check that it has the proper free travel.	ADJUSTING CLUTCH PEDAL HEIGHT AND FREE PLAY
Brakes Check that the brake does not pull the vehicle to one side when applied.	shaust system Make sure there are no loose supports, sacks or holes. If the sound of the exhaust come unasual character is a small of exhaust furnes, immediately locate the
Brake pedal Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function.	CHECKING BRAKE PEDAL DEPRESSED HEIGHT CHECKING BRAKE BOOSTER FUNCTION
Parking brake Check that the lever has the proper travel and confirm that your vehicle is held securely on a fairly steep hill with only the parking brake applied.	Ound the exhaust extern of the floor pan, frame, foal lines and
NO. R. CANCELL CO. L.	ing careful to clean those as when mud and dirt can mily accumulate.
Automatic transmission "Park" mechanism Check that the lock release button on the selector lever operates properly and smoothly. On a fairly steep hill check that your vehicle is held securely with the selector lever in the "P" position without applying any brakes.	luid leaks Check under the vehicle for fuel, oil, water or ther fluid leaks after the vehicle has been parked to a

GENERAL MAINTENANCE

Seneral main houses AM Item II consiste the series about	Reference item in MA section
UNDER THE HOOD AND VEHICLE	Windshield definite Spek that the Sollies But A Sellies
The maintenance items listed here should be checked periodical	CIMINI VITTOLIO IDEIDITTUI DI DIE VINCONO INSULE ELIGITED
Windshield washer fluid Check that there is adequate fluid in the tank.	Reproperties the state of the security and s
Engine coolant level Check the coolant level when the engine is cold.	ans the years of the distribution of the provide and the state of the
Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, rot or loose connections.	scattles where the changes in the steering condition, such as secessive free play, hard steering or strange noises. Seets Chart seat position controls such as seat adjust-
Brake and clutch fluid levels Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir.	CHECKING CLUTCH FLUID LEVEL CHECKING BRAKE FLUID LEVEL AND LEAKS
Engine drive belts Make sure that no belt is frayed, worn, cracked or oily.	CHECKING DRIVE BELT Advantage and most
Engine oil level Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine.	CHANGING ENGINE OIL AND OIL FILTER
Power steering fluid level and lines Check the level when the fluid is cold and the engine is turned off, Check the lines for proper attachment, leaks, cracks, etc.	CHECKING POWER STEERING SYSTEM FLUID AND LINES
Automatic transmission fluid level Check the level on the dipstick after putting the selector level in "P" with the engine idling.	CHECKING AUTOMATIC TRANSMISSION FLUID LEVEL Separate of the separ
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.	INSPECTING EXHAUST SYSTEM AND SECRETARIES OF STREET
Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control	trake sure it has the proper distance under it when de- pressed fully. Check the brake booster function.
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.	Parking brake Check that the lever has the proper travel and confirm that your vehicle is held securely on a fairly steep till with only the parking brake applied. Automatic transmission "Park" mechanism Check that the ook release button on the selector lever operates properly
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.	CHECKING CLUTCH FLUID LEAKS INSPECTING MANUAL TRANSMISSION OIL INSPECTING AUTOMATJC TRANSMISSION FLUID INSPECTING DIFFERENTIAL GEAR OIL INSPECTING BRAKE LINES & HOSES CHECKING POWER STEERING LINE & HOSES



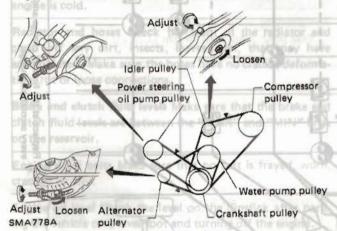
Checking Drive Belts-

Inspect for cracks, fraying, wear or oil adhesion. Replace if necessary.

The belts should not touch the bottom of the pulley groove.

Check drive belt deflections by pushing on the belt middle between pulleys.

Adjust if belt deflections exceed the limit.



Power stearing	titles tyles.	and Near Check	Unit: mm (in)	
the fight is on	Used bel	t deflection	Set deflec-	
Automatic tree	Limit	Adjusted deflection	tion of new belt	
Alternator	12 (0.47)	7,5 - 8,5 (0.30 - 0.33)	6.5 - 7.5 (0.26 - 0.30)	
Air conditioner compressor	11 (0.43)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)	
Power steering oil pump	21 (0,83)	14 - 16 (0.55 - 0.63)	12 - 14 (0.47 - 0.55)	
Applied pushing force	under lesse such as these	98 N (10 kg, 22 lb) er to contie	

emply accomplate

SMASSB

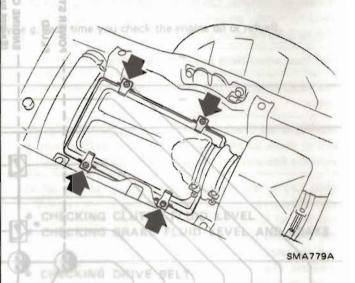
Fluid leaks these under the vehicle to other fluid leaks when the vehicle has white. Weter empoing from the or corb normal. If you should no Easin's leak

are evident, theck for themas in and

y stust

Replacing Air Cleaner Filter_

The viscous paper type air cleaner filter does not require any cleaning operation between renewals.

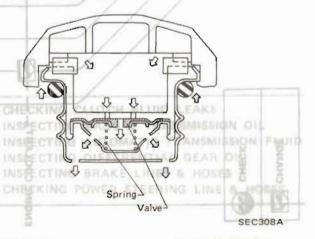


Checking Vapor Lines.

FECKING AUTOMAS

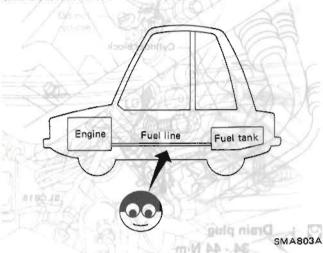
FULLID LEVEL

- Visually inspect vapor lines for proper attachment, cracks, damage, loose connections, chafing and deterioration.
- Check fuel tank vacuum relief valve for clogging, sticking, etc.



Checking Fuel Line

Check fuel lines and tank for proper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.



CAUTION:

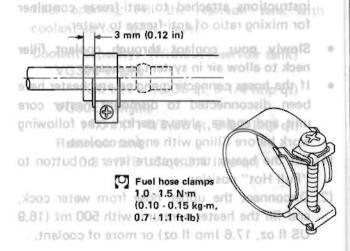
Tighten high pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end or screw position (wider than other portions of clamp) is flush with hose end.

(3.5 - 4.5 kg-m, 25 - 33 ff-lb)

When tightening hose clamp, ensure that screw does not come into contact with adjacent parts.

Vision water, and till radiator and apping vitti

well of the state of the seeding of



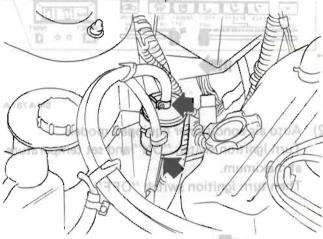
SMA804A

____Replacing Fuel Filter_

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

- 1. Start engine w the coolant wanted to start engine
- Remove fuse for fuel pump with engine running.
- After engine stalls, crank engine two or three times to make sure that pressure is released.
- Turn ignition switch off and connect fuel pump fuse.

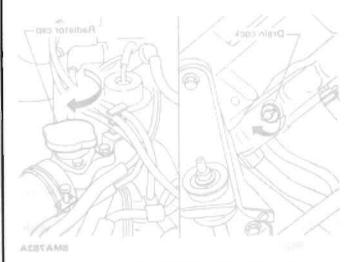
Loosen fuel hose clamps.



SMA780A

angine coolant.

- 6. Replace fuel filter.
- Be careful not to spill fuel over engine compartment, Place a rag to absorb fuel.
- Use high pressure type fuel filter. Do not use a synthetic resinous fuel filter.



Changing Engine Coolant

WARNING: In sanslette, retribil in the serve of such all

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

- 1. Before draining engine coolant:
- Except auto air conditioner equipped models Slide temperature control lever to "HOT" position.



SMA781A

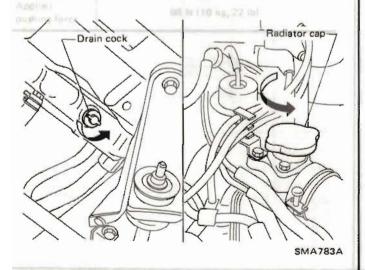
Auto air conditioner equipped models
 Turn ignition switch "ON" and set temperature at maximum.

Then turn ignition switch "OFF".

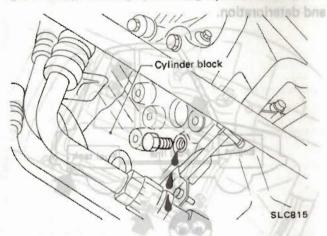


SMA782A

Open radiator cap and drain cock to drain engine coolant.



Remove drain plug on the left side of cylinder block to drain coolant from cylinder block.



: Drain plug

34 - 44 N·m

(3.5 - 4.5 kg-m, 25 - 33 ft-lb)

- Close drain plug and drain cock securely.
 Then, fill radiator with water and warm up engine.
- Stop engine and wait until it cools down.
- Repeat procedure from step 2 through step 5 two or three times.
- Drain water and fill radiator and engine with new coolant up to filler opening. Follow instructions attached to anti-freeze container for mixing ratio of anti-freeze to water.
- Slowly pour coolant through coolant filler neck to allow air in system to escape.
- If the hoses connecting engine and heater have been disconnected to dismount heater core unit and engine, always perform the following work before filling with engine coolant.
- (1) Set the heater temperature lever or button to "Full Hot" position.
- (2) Disconnect the upper hose from water cock, and fill the heater core unit with 500 mg (16.9 US fl oz, 17.6 lmp fl oz) or more of coolant.

SM A BOAA

_Changing Engine Coolant (Cont'd)____



e. When installing oil filter, scraw it in until a

- (3) Connect the hoses. And all sometaless ample
- Fill reservoir tank up to "MAX" level. Then close radiator cap.
- 9. Run the engine at approximately 2,000 rpm for about one minute.
- 10. Stop the engine and after it cools down, refill the radiator and engine with coolant up to the filler opening. Fill the reservoir tank with coolant up to "MAX" level.

Coolant capacity: (Without reservoir tank)
VG30E engine

10.5 g (11-1/8 US qt, 9-1/4 Imp qt)

VG30ET engine

11.0 £ (11-5/8 US qt, 9-5/8 Imp qt)

Reservoir tank:

0.8 £ (7/8 US qt, 3/4 Imp qt)

Reful oil to "N" level. ——as

 Inspect insulator for cracks or chips, gasket for damage or deterioration.

SMARSSI

- Warm up engine, and schede forciolatelitage from engine components.
 - 2. Change engine oil and oil filter.





5. Install spark plugs Beconnect ignition wires a work and in the province of the province of

Spark plug

20 - 29 N·m

(20 - 3.0 kg·m, 14 - 22 (+16)

oceanor vx

(334274)



SMATGZE

- Be careful not to burn yourself as engine oil is not.
- b. Be sure to clean drain plug and install with washer.

Changing Engine Oil and Oil Filter

- Warm up engine, and check for oil leakage from engine components.
- 2. Change engine oil and oil filter.

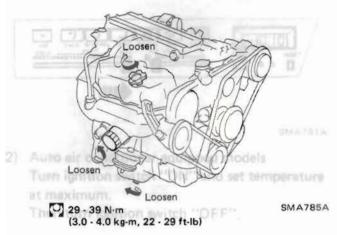
Oil capacity (Refill):

Bef With oil filter and coolents

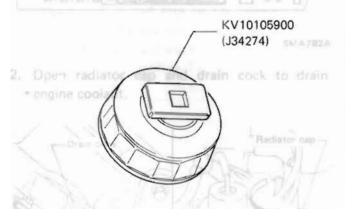
4.0 ℓ (4-1/4 US gt, 3-1/2 Imp gt)

Slid Without oil filter

position 3.6 & (3-7/8 US qt, 3-1/8 Imp qt)



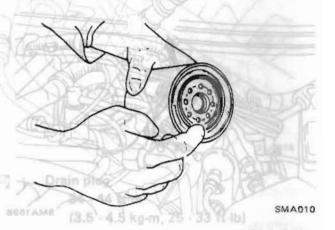
a. When removing and installing oil filter, use a



SMA167B

- a. Be careful not to burn yourself as engine oil is hot.
- Be sure to clean drain plug and install with washer.

d. Before installing new oil filter, wipe oil filter mounting surface on cylinder block, and smear a little engine oil on rubber seal of oil filter.

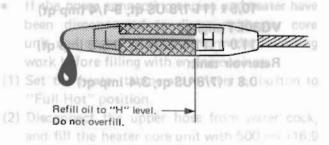


e. When installing oil filter, screw it in until a slight resistance is felt, then tighten it additionally more than 2/3 turn.

5.00 grandles of the state of t

- f. Use recommended engine oil.
- 3. Start engine. Check area around drain plug and oil filter for any sign of oil leakage.

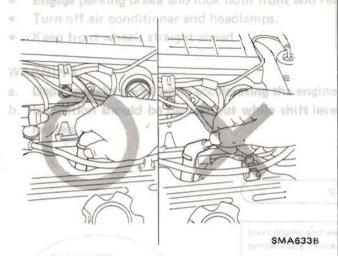
 Run engine for a few minutes, then turn it off. After several minutes, check oil level.



SMA632B

Checking and Replacing Spark Plugs

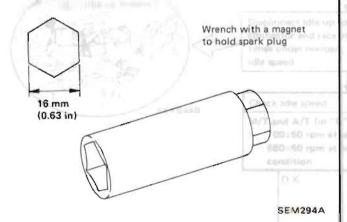
 Disconnect ignition wires from spark plugs by pulling on the boot. Do not pull on the wires.



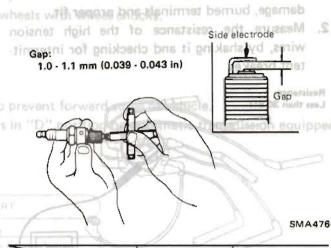
Remove spark plugs with a suitable plug wrench as shown below.

CAUTION:

Before removing spark plug, be careful that there is no foreign substance in the hollow place around spark plug.



Inspect insulator for cracks or chips, gasket for damage or deterioration. 4. Check spark plug gap.



ralya a laylar	VG30E	VG30ET
Standard type	BCPR6ES-11	BCPR6E-11
Hot type	BCPR5ES-11	BCPR5E-11
Cold type	BCPR7ES-11	BCPR7E-11

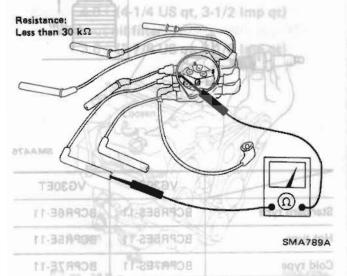
- 5. Install spark plugs. Reconnect ignition wires according to Nos, indicated on them.
- Spark plug

20 - 29 N·m

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

Checking Ignition Wires

- Check the high tension wires for cracks, damage, burned terminals and proper fit.
- Measure the resistance of the high tension wires, by shaking it and checking for intermittent breakes.



13.6 - 4.0 kg/m, 22 - 28 ft lb3

- 5. Install spark plugs. Reconnect ignition wires a ser ratif to goldsten on griventar nauw seconding to Nos. indicated on them.
 - Spark plug 20 - 29 N-m

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

Tab 12740



Be careful not to hurn yourself as engine of is bot.

Be sure to clean drain plug and install with washer.

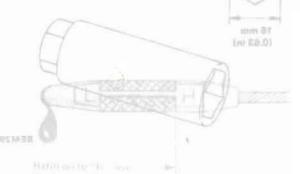


Vd. aflatarational wiver fronts are trained by

210 Remove spark plugs with a suitable plug wrench as shown below.

- a litery on it were a relief in pullatery and a somewhere theils chief there is somewhere their their their its somewhere is no foreign substance in the hollow place around spark plug.
- 3. Start ungine. Check area around drain plug and oil filter for any sign of oil teakage.

 Regularization of a few minutes, then turn it off After several minutes, muck elitevel.



Inspect insulator for cracks or chips, gasket for damage or deterioration.

Checking Idle Speed (VG30E engine)

Check exhaust pipes, muffler and maunting for

connections, challing or deterioration.

Preparation landor de management x e ai lestel dui ult 1

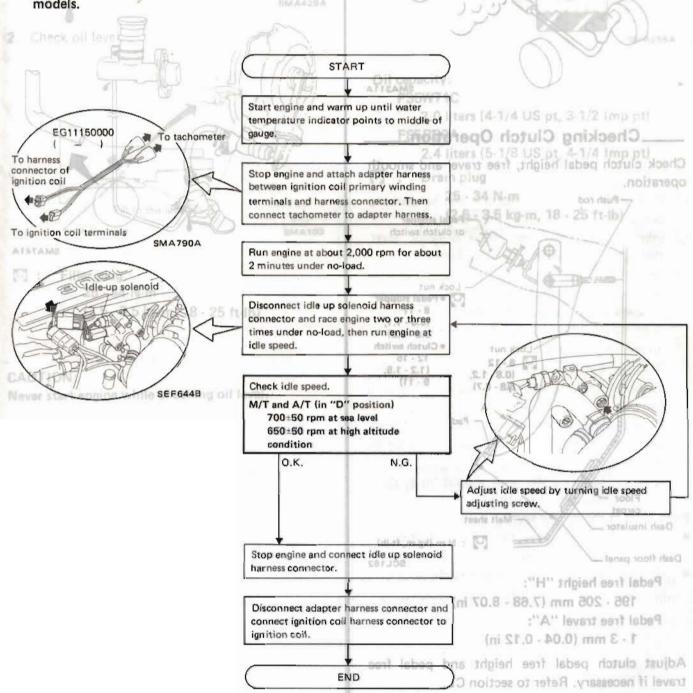
- Engage parking brake and lock both front and rear wheels with wheel chocks.
- Turn off air conditioner and headlamps,

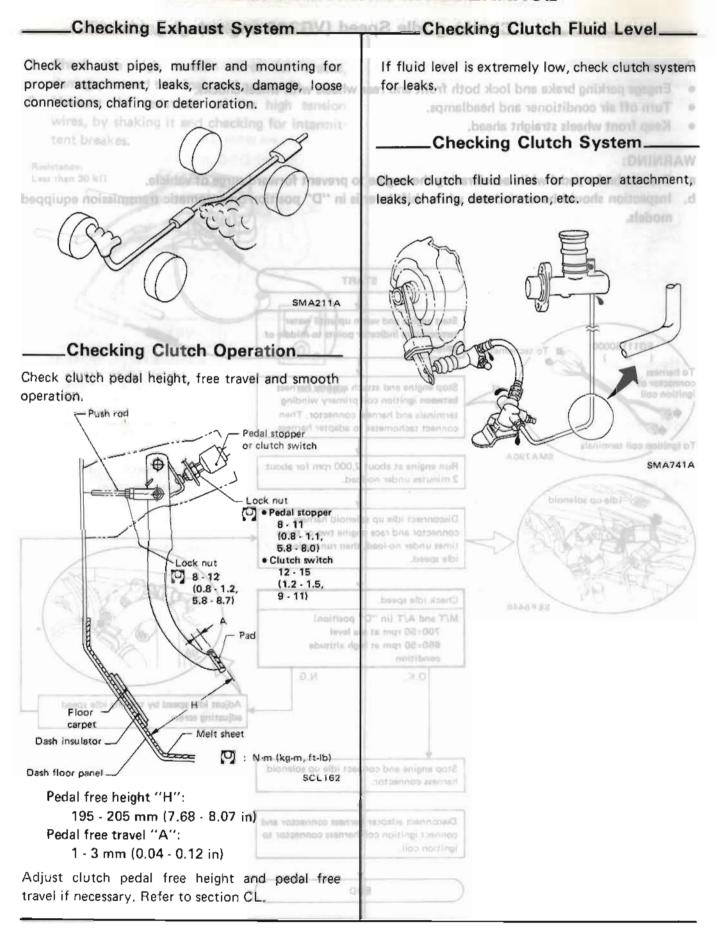
Checking Clutch System

Keep front wheels straight ahead.

WARNING:

- a. Depress brake pedal while accelerating the engine to prevent forward surge of vehicle.
- Inspection should be carried out while shift lever is in "D" position on automatic transmission equipped models.

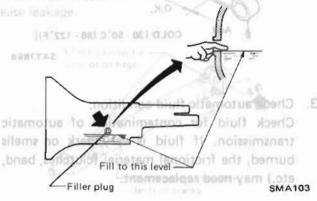




Checking M/T Oil Check manual transmission for oil leakage. T/M 7.0 Drain plug

SMA429A

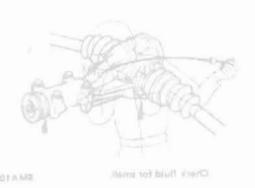
2. Check oil level.



(0): Filler plug 25 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

CAUTION:

Never start engine while checking oil level.



Checking Differential Gear Oil

1. Check automatic transmission SMA255A

Oil capacity: **FS5W71C**

> 2.0 liters (4-1/4 US pt, 3-1/2 Imp pt) FS5R90A

2.4 liters (5-1/8 US pt, 4-1/4 Imp pt)

Z. The dipstick can check fluid

to 50°C (88 to 122°F)1.

: Drain plug

pnished to 25 - 34 N·m level a no elaidev shart (1) (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

(2) Start engine and then move letector lever

through ench gene range, ending in P; (3) Check fluid level with engine idling (If vehicle has not been slriven for some time and outside temperature is below 30°C (86°F), a "COLD" fluid temperature can be obtained by warming

(4) Remove dipstick and clean it with lint-free paper. Reigentalt into charging pine as fat as it

(5) Ramove dipetick and note the reading. If fluid temperature is "HOT", the level should be the

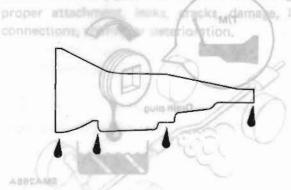
For model with limited slip ultimortal If it (s "COLD" the level should be in cold and range (within curout portion).

Limited stifferent average of the built gee X o Overfilling max uplawing selection of the resulting of Turn one rear wheel being to transport of earning

If both office the same same additionably ... aregulting in damage to them. Visuoenstumis

____Checking A/T Fluid____

Check automatic transmission for oil leakage.



SMA430A

- The dipstick can check fluid level at "HOT" fluid temperatures [50 to 80°C (122 to 176°F)] after vehicle has been driven approximately 10 minutes. It also can be used to check fluid level at "COLD" fluid temperatures [30 to 50°C (86 to 122°F)].
- Park vehicle on a level surface and set parking brake.
- (2) Start engine and then move selector lever through each gear range, ending in "P".
- (3) Check fluid level with engine idling, (If vehicle has not been driven for some time and outside temperature is below 30°C (86°F), a "COLD" fluid temperature can be obtained by warming up engine completely.)
- (4) Remove dipstick and clean it with lint-free paper. Reinsert it into charging pipe as far as it will go.
- (5) Remove dipstick and note the reading. If fluid temperature is "HOT", the level should be in hot range.

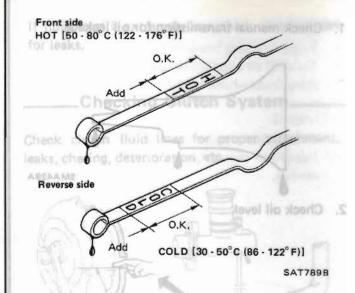
If it is "COLD", the level should be in cold range (within cutout portion).

Keep fluid at the proper level.

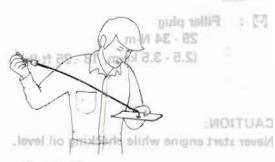
- Overfilling may blow off fluid, resulting in damage to transmission.
- Underfilling may cause clutches to slip, resulting in damage to them.

adal free travel "A": 1 3 mm (0.0% 0.12 in)

Adjust clutch pedal free height and pedal free travel if necessary. Refer to section CL.



 Check automatic fluid condition.
 Check fluid for contamination of automatic transmission. If fluid is very dark or smells burned, the frictional material (clutches, band, etc.) may need replacement.



Check fluid for contamination.



Check fluid for smell.

SMA107

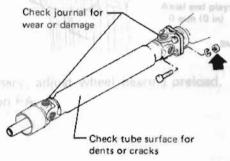
- 1. Drain fluid by removing oil pan, and state of the last of the l
- 2. Replace gasket with new one.
- Refill with fluid and then check fluid level.

Oil capacity:

7.0 liters (7-3/8 US qt, 6-1/8 Imp qt)

Checking Propeller Shaft_

Check propeller shaft for damage, looseness or grease leakage.



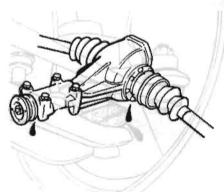
: Check tightening torque

995AMZ Joint & Suspension Ball Joint

Checking Differential Gear Oil

Checking Steering Linkage

1. Check differential carrier for oil leakage.



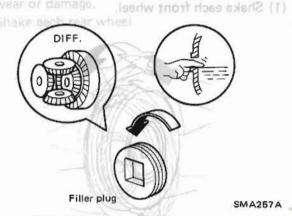
SMAT23A

SMA432A

Changing A/T Fluid _____ Checking Differential Gear Oil_ (Cont'd)

Check axle and suspension parts for looseness.

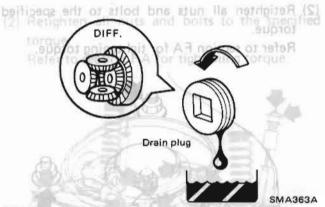
2. Check oil level.



O : Filler plug

59 - 98 N·m (6 - 10 kg-m, 43 - 72 ft-lb)

Changing Differential Gear Oil



Oil capacity:

1.3 Liters (2-3/4 US pt, 2-1/4 Imp pt)

(: Drain plug

59 - 98 N·m (6 - 10 kg·m, 43 - 72 ft-lb)

CAUTION:

- For model with limited-slip differential gear, use only approved limited-slip differential gear oil.
- Limited-slip differential identification.
- (1) Lift both rear wheels off 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.

SINAMIS

Checking Front Axle and Front Suspension Parts

 Check axle and suspension parts for looseness, wear or damage.

(Cont'd)

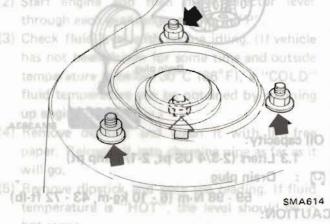
(1) Shake each front wheel.

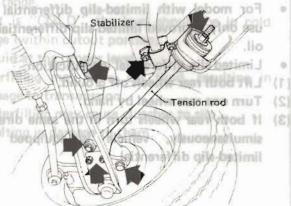


SMA525A

(2) Retighten all nuts and bolts to the specified torque.

Refer to section FA for tightening torque.





- (3) Check axle and suspension parts for wear, cracks or damage.
- Check strut (Shock absorber) for oil leakage or damage.

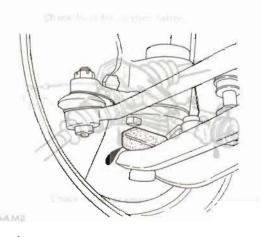


— Checking Steering Linkage ____ Ball Joint & Suspension Ball Joint

Check tightening torque

 Check ball joint for grease leakage or other damage,

1. Check differential carrier for oil leskage.



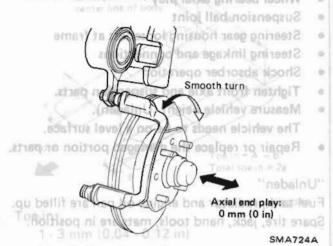
SMA723A

SMA615

Bearing Grease

Check that wheel bearings operate smoothly, as well as axial end play and grease leakage.

PRELIMINARY INSPECTION

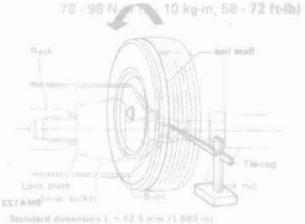


CAMBER, CASTER AND KINGPIN If necessary, adjust wheel bearing preload. Refer to section FA.be adjusted by varying the lengt Camber, caster and kingpin inclination-anapteses at

factory and cannot be adjusted. Camber -35' to 55 Caster: 5" 50" - 79 20" Kingpin Inclinations 12°55'- 14"25'

1. A Warfett base line across the tread.

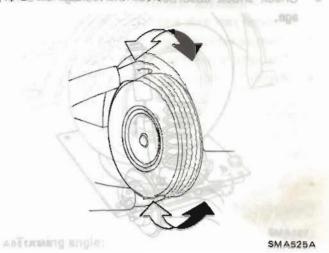
TOE-IN



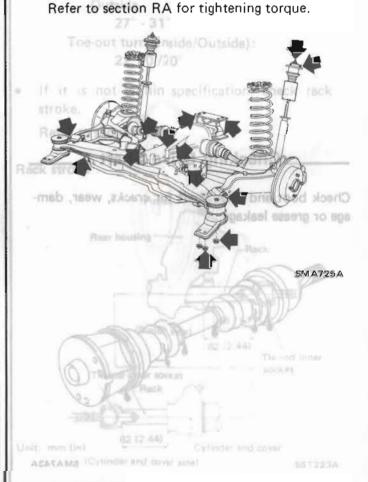
After lowering front of vehicle, move it up and down to eliminate friction.

Checking Front Wheel _____ Checking Rear Axle and _ Rear Suspension Parts

- Check axle and suspension parts for looseness, wear or damage.
- (1) Shake each rear wheel, should should should



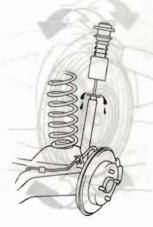
(2) Retighten all nuts and bolts to the specified torque.



Rear Suspension Parts (Cont'd)

Check axle and suspension parts for looseness.

- (3) Check axle and suspension parts for wear, wear or damage. cracks or damage.
- Check shock absorber for oil leakage or damage.



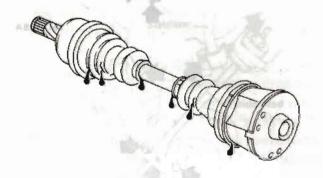
SMA726A

(2) Retighten all nuts and bolts to the specified (2) Retighten all nuts and bolts to the specified

Refer to section RA for tightening torque.

Checking Drive Shaft .

Check boot and drive shaft for cracks, wear, damage or grease leakage.



SMA743A

Checking Rear Axle and _____Checking Front Wheel Alignment ___ Bearing Grease

PRELIMINARY INSPECTION

- Tire pressure a contract leady and sharp a
- Wheel bearing axial play
- Suspension ball joint
- Steering gear housing looseness at frame
- Steering linkage and connections
- Shock absorber operation
- Tighten front axle and suspension parts.
- Measure vehicle height (Unladen). The vehicle needs to be on a level surface.
- Repair or replace the damaged portion or parts.

"Unladen"

Fuel tank, radiator and engine oil pan are filled up. Spare tire, jack, hand tools, mats are in position.

CAMBER, CASTER AND KINGPIN INCLINATION

Camber, caster and kingpin inclination are preset at factory and cannot be adjusted.

Camber:

-35' to 55'

Caster: ecking Steering Linkage

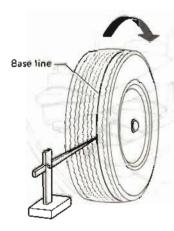
Ba 5°50' - 7°20' Suspension Ball Joint

Kingpin inclination:

12°55' - 14°25'

TOE-IN

Mark a base line across the tread.

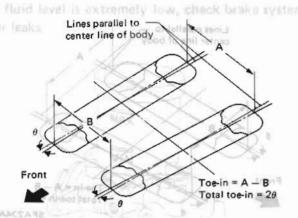


SMA123

After lowering front of vehicle, move it up and down to eliminate friction.

Checking Front Wheel Alignment (Cont'd).

Measure toe-in.



SFA234A

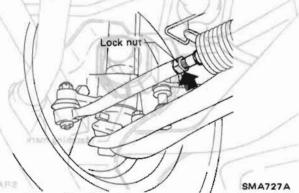
2. Measure toe-in.

Toe-in:

1 - 3 mm (0.04 - 0.12 in)

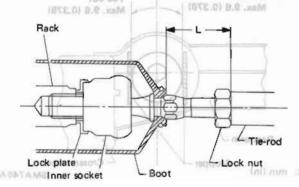
6' - 17' (Total toe-in) 3. Toe-in can be adjusted by inside of rear arm

3. Toe-in can be adjusted by varying the length of steering tie-rods.



Tie-rod lock nut

78 - 98 N·m (8 - 10 kg-m, 58 - 72 ft-lb)

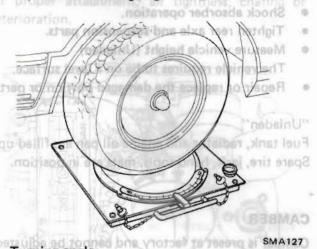


Standard dimension L = 42.9 mm (1.689 in)

SST936A

FRONT WHEEL TURNING ANGLE AND 1389

Rotate steering wheel all the way right and left; measure turning angle on inner wheel.



Comber:

TOE-IN

munn -1"55' to -25

Turning angle:

Full turns

Inside

35° - 39°

Outside

27° - 31°

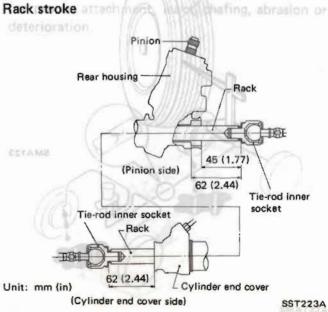
Toe-out turn (Inside/Outside):

22°30′/20°

If it is not within specification, check rack stroke.

Check brake fluid lines and portring the cables

Refer to section ST.



Checking Rear Wheel Alignment _____

PRELIMINARY INSPECTION THE THORF

- Tire pressure.
- Wheel bearing axial play, nimus shussem the
- Shock absorber operation.
- Tighten rear axle and suspension parts.
- Measure vehicle height (Unladen) The vehicle requires to be on a level surface.

Rear Suspension Parts (Cont'd)

Repair or replace the damaged portion or parts.

"Unladen"

Fuel tank, radiator and engine oil pan are filled up. Spare tire, jack, hand tools, mats are in position.

CAMBER

Camber is preset at factory and cannot be adjusted.

Full turns

Inside

Outside

35" - 39"

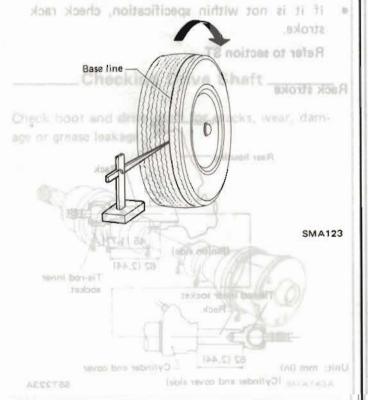
27" - 31"

Camber:

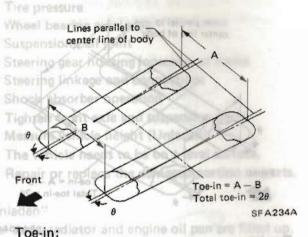
-1°55' to -25'

TOE-IN

 Mark a base line across the tread. 22°30'/20'

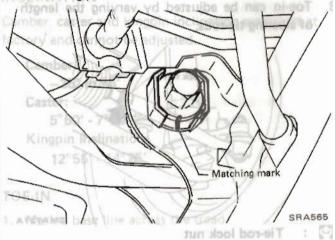


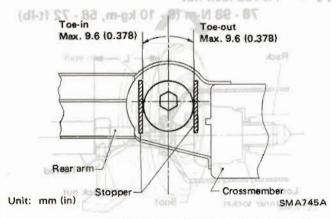
2. Measure toe-in.



-1.5 to 2.5 mm (-0.059 to 0.098 in) -8' to 14' (Total toe-in)

3. Toe-in can be adjusted by inside of rear arm bushing pins.



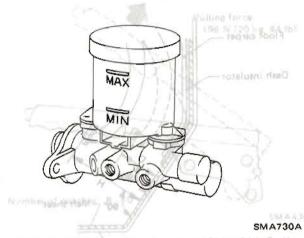


Standard dimension L = 42.9 mm (1.689 in) After lowering front of vehicle, more stup and

_Checking Brake Fluid Level____ and Leaks

Pull lever with specified amount of force.

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



H: Pedal free holebits -evel faurba & ret arbs said D: Ospressed height

Padal free height "H":

Wift medal 182 - 192 mm (7.17 - 7.56 in)

A/T model 186 - 194 mm (7.24 - 7.64 in)

Degressed height "D":

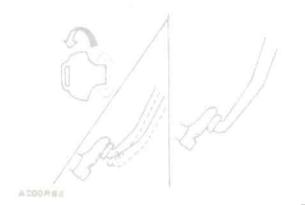
90 mm (3.54 in) or more

dMA1718

Adjust gedal height if necessary. Refer to section BR.

-Checking Brake Booster Function -

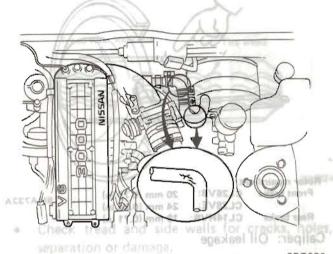
Make sure that there is not change in pedal state of the state of the series of t



Checking Brake Lines & Hoses____

Check condition of disc brake SPAKE BOOSTER

Check vacuum lines connections and check valve for proper attachment, air tightness, chafing or deterioration.



SBR986

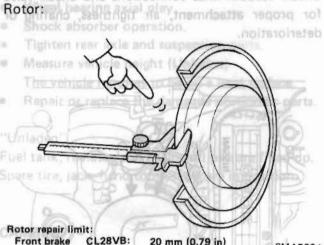


Check brake fluid lines and parking brake cables for proper attachment, leaks, chafing, abrasion or deterioration.

Check the valves for all landing to assw. shall be assw. shall be

Check condition of disc brake components.

Check vacuum lines connections and check



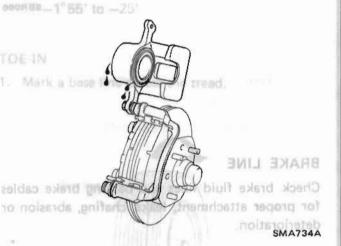
Rear brake

CL28VE:

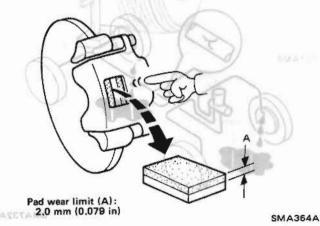
20 mm (0.79 in) 24 mm (0.94 in) CL14HVB: 18 mm (0.71 in)

SMA733A

Caliper: Oil leakage

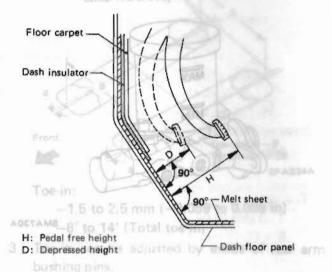


Pad: Wear or damage



Checking Disc Brake Checking Foot Brake **Pedal Operation**

 Check brake pedal free height, depressed height for leaks. and for smooth operation.



SMA171B

Pédal free height "H":

M/T model 182 - 192 mm (7.17 - 7.56 in)

A/T model 184 - 194 mm (7.24 - 7.64 in)

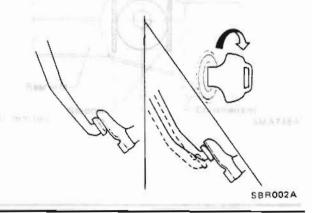
Depressed height "D":

90 mm (3.54 in) or more

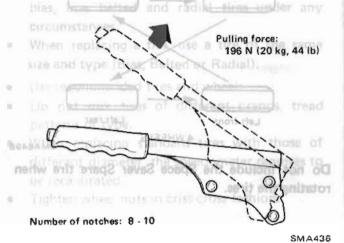
Adjust pedal height if necessary. Refer to section BR.

—Checking Brake Booster Function—

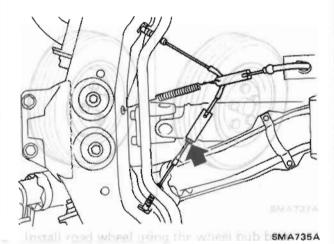
- Make sure that there is not change in pedal stroke while depressing brake pedal several times with engine off.
- Depress brake pedal, then start engine. If pedal goes down slightly, operation is normal.



 Pull lever with specified amount of force. Check lever stroke for smooth operation.



Use adjuster to adjust lever stroke.

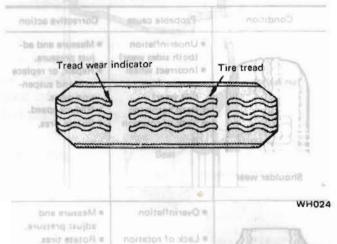


Bend parking brake warning lamp switch plate down so that brake warning light comes on when ratchet at parking brake lever is pulled one notch and goes out when fully released.

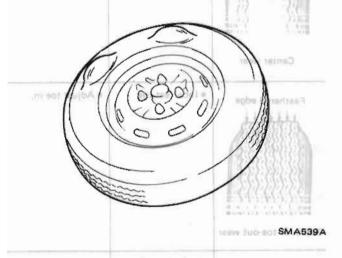
Checking Parking Brake _____Checking Tire Condition____

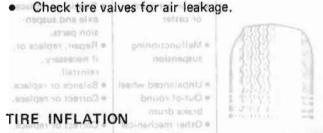
TIRE CONDITION DUTS for ALEW SHE ISMANDA

 When tread wear indicators appear, replace them with new ones.



Check tread and side walls for cracks, holes, separation or damage.





Tire pressure needs to be measured when tire is cold.

Tire pressure needs to be set to the specifiations on the tire placard affixed to the driver's side center pillar.

BEALAND

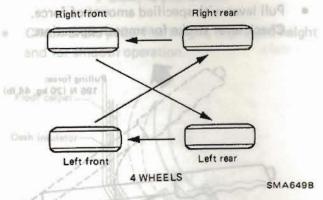
Checking Tire Condition (Cont'd)

Abnormal tire wear

Correct abnormal tire wear according to the chart shown below.

Condition	Probable cause	Corrective action
	Underinflation (both sides wear) Incorrect wheel camber (one side wear) Hard cornering Lack of rotation	Measure and adjust pressure. Repair, or replace axle and suspension parts. Reduce speed. Rotate tires.
Shoulder wear	Overinflation Lack of rotation allow abia bia	Measure and adjust pressure. Rotate tires.
Center wear		
Feathered edge	• Incorrect toe	• Adjust toe-in.
Uneven wear	Incorrect camber or caster Malfunctioning suspension Unbalanced wheel Out-of-round brake drum Other mechanical conditions	Repair, or replace axle and suspension parts. Repair, replace or, if necessary, reinstall. Balance or replace. Correct or replace. Rotate tires.

____Tire Rotation____



Do not include the Space Saver Spare tire when rotating the tires.

Number of synchros, JL - 7G



one notch and goes out when fully released.

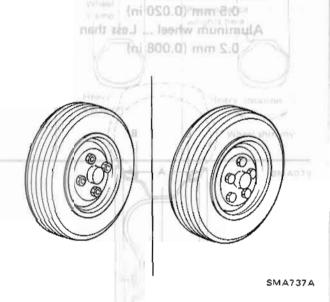
the tire placerit affixed to the driver's side center pillar.

(A) trust serve bed

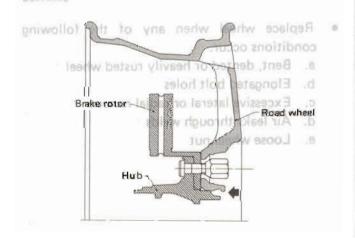
Tire Replacement Tire Replacement

Check wheel rim (aspecially rim :NOITUA)

- Do not mix different types of tires, such as bias, bias belted and radial tires under any Examine wheel rim for larder sacranged and a circumstances.
- When replacing a tire, use a tire of the same size and type (Bias, Belted or Radial).
- Use recommended tires and wheels.
- Do not mix tires of different brands, tread patterns or type.
- When replacing standard tires with those of different diameter, the speedometer requires to be recalibrated. lest lateral runout:
- Tighten wheel nuts in criss-cross fashion.

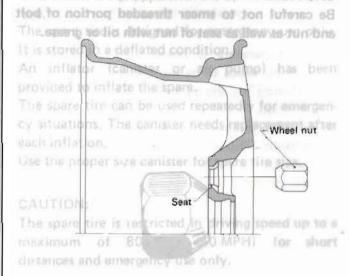


Install road wheel using the wheel hub boss. SMATADE



SMA724B

Use tapered wheel nuts for aluminum wheels.



INFLATION WITH APPROVED INFLATOR SMA7258

and directions allowed on both the inflator and

sekvalingmove the annothered some tire and the

Tire Repair _____outgasw

Do not inflate at this point.

CAUTION:

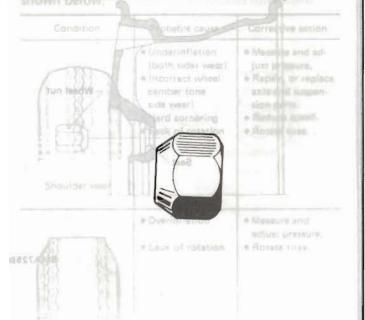
Jack up front or rear of vehicle and remove the demand tire, be careful not to demand tire. When replacing tire, the careful not to demand the unit in the careful and the careful a tire to the axis. (Tighted wheel out alignment When installing tire, note the following items: a. Install valve core and inflated a proper pressure. no Make, suce, the Josetinan rings, of the tires are the space tizebia-daed on appendings and beause our b. Check valves, for lookings after infligting tirss, out c. Tighten valve caps firmly by hand, policy ...

(1) With tire value at 6 o'clock position; 2014/9/AW To avoid serious personal injuly; hever staire ever tice when inflating it. Never Wittete to 8 bressure greater that 40 psi (275 lofe): If beads fail to seat at that pressure, deflate the tire, lightleate it again, and then reinflate it. If the tire is overinflated allev bend might break, possibly serulting in serious cold during inflation and can caute in the cold Therefore, avoid contact with the metal, use a

Wheel Nut _____ Wheel Inspection_

Use tapered wheel nuts for alumin : NOITUAN

Be careful not to smear threaded portion of bolt and nut as well as seat of nut with oil or grease.



SMA726B

Adjust tealing

Tire Repair.

CAUTION:

When replacing tire, be careful not to damage tire bead, rim-flange and bead seat.

When installing tire, note the following items:

- a. Install valve core and inflate to proper pressure. Make sure the locating rings of the tire are around the rim flanges on both sides.
- b. Check valves for leakage after inflating tires.
- c. Tighten valve caps firmly by hand.

WARNING:

To avoid serious personal injury, never stand over tire when inflating it. Never inflate to a pressure greater than 40 psi (275 kPa), If beads fail to seat at that pressure, deflate the tire, lubricate it again, and then reinflate it. If the tire is overinflated, the bead might break, possibly resulting in serious personal injury.

Check wheel rim (especially rim flange and bead seat) for rust, distortion, cracks or other you damage. as it diliber has been and as id

Examine wheel rim for lateral and radial runout, em using dial gauge.

Lateral runout (A) and radial runout (B):

Steel wheel ... Less than

beent about 1.0 mm (0.039 in)

Aluminum wheel ... Less than

to sends d 0.5 mm (0.020 in)

Difference between right and

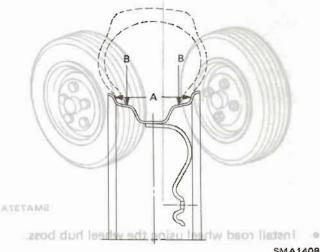
left lateral runout:

Steel wheel ... Less than

0.5 mm (0.020 in)

Aluminum wheel ... Less than

0.2 mm (0.008 in)



- Replace wheel when any of the following conditions occur.
 - a. Bent, dented or heavily rusted wheel
 - Elongated bolt holes
 - c. Excessive lateral or radial runout
 - d. Air leaks through welds
 - e. Loose wheel nut



Balancing Wheels Spare Tire and Linkage

Cause	Wheel static unbalance	Wheel dynamic unbalance
Symptom of unbalance	Wheel tramp Wheel shimmy	3. Store tire in real ymmids leadW REPAIR
Corrective action	Balance statically Place balance weights here	Balance dynamically O
analasb nie	Wheel	Place balance
(1) Check damage	gear long and a	weights here
	Heavy	Heavy location
	ball juint dust cove arts for looseness,	Wheel shimmy

SMA075

System Fluid and Lines

This model is equipped with the Space Saver Spare tire im enduid not isdamiliataines, establad

The spare tire is designed for emergency use only. It is stored in a deflated condition.

An inflator (canister or air pump) has been provided to inflate the spare.

The spare tire can be used repeatedly for emergency situations. The canister needs replacement after each inflation.

will increase.

Use the proper size canister for spare tire size.

CAUTION:

The spare tire is restricted in driving speed up to a maximum of 80 km/h (50 MPH) for short distances and emergency use only.

INFLATION WITH APPROVED INFLATOR

- 1. Before changing tire, carefully read the caution and directions affixed on both the inflator and the spare tire. ent and any sent and
- 2. Remove the uninflated spare tire and the inflator from rear compartment. If the air pump works slowly, run the e

WARNING: until this case : Policy in this case Do not inflate at this point out on the same of this

3. Jack up front or rear of vehicle and remove the damaged tire. Then mount the uninflated spare tire to the axle. (Tighten wheel nuts slightly.)

Use spare wheel nuts in the tool bag on aluminum il while it is working. wheels equipped vehicles.

Do not use the wheel nuts for aluminum wheels on the spare tire wheel to avoid the wheel coming off the axle and causing personal injury.

- Using Canister w representations and fully tighten wrestern. (1) With tire valve at 6 o'clock position, inflate the spare tire with the canister. Place tire canister on the tire inflation valve and push squarely until gas can be heard entering the tire. It may take 3 minutes. DEFLATION

1. Deflate tire by depressing butt: DNINRAW The metal parts of the canister become extremely cold during inflation and can cause frost bite. Therefore, avoid contact with the metal, use a glove or other protection.

Spare Tire (Cont'd)

CAUTION:

- (2) To ensure complete emptying of the canister, hold the canister in position for one minute after sound stops.
- If temperature is below -10°C (14°F), the canister needs to be warmed on the windshield defroster for five to ten minutes to provide tire inflation.
- b. In cold weather, the tire may not look fully inflated. Therefore, drive slowly for the first mile, as the tire temperature rises the pressure will increase.

Using Air Compressor betain the all every and T

- Remove the valve cap from the spare tire and securely connect the air pump hose in its place.
- (2) Connect the power cord plug of the air pump to the cigarette lighter socket. The spare tire may be inflated to the recommended pressure 28 psi (200 kPa) in about 6 minutes. Adjust the tire pressure per the tire placard with tire pressure gauge.

If the air pump works slowly, run the engine while the air pump is working. In this case, remove jack with the spare tire attached to the axle.

3. Jack up front or ner of vehicle and RNING

- Do not run the engine in a closed space or with the vehicle jacked up.
- Do not touch the air pump with the bare hands while it is working.
- (3) Disconnect the power cord plug from socket.

 Check the tire for air leakage, and then securely install and tighten the valve cap.
- Lower car and fully tighten wheel nuts.

Do not install the wheel cover on the spare tire.

DEFLATION a deflate the tire tension contain.

 Deflate tire by depressing button on tire inflation valve or by removing valve core.

cold during inflation and can caus

tylanadpa designibns avlide-no talitakenid orländsure gymenet sind och getingsmi brook technicasenglide vest

WARNING:

To avoid personal injury, do not inhale the gas which is vented while the tire is deflating.

- 2 Flatten tire. The spare tire becomes folded gradually while deflating.
- 3. Store tire in rear compartment.

Examination of the formal formal

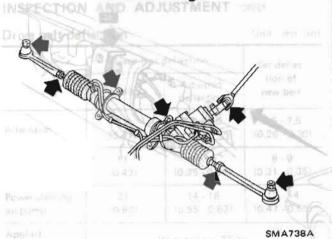
REPAIR dial gauge

Only qualified tire experts are authorized to dismount the spare tire from its rim or repair it in any way. Improper service can result in serious personal injury.

Contact agents of tire manufacturer, their dealers or NISSAN dealers if service is required.



and Linkage



- Steering gear:
- (1) Check gear housing and boots for looseness, damage or grease leakage.
- (2) Check connection with steering column for looseness.
- Steering linkage:
- (1) Check ball joint, dust cover and other component parts for looseness, wear, damage or grease leakage.
- (2) Check for missing parts (cotter pins, washer, etc.).

is, Buckles, Retractors, Anchors and Adjusters

3.U 4.0

PSINISPER MARRIED	CAUTION:	
	r sosiger ,bentu) (III 2 F S II I	
The section to man	rous I constitut regard	0 0091 (\$ \$41 m)
of any compo-	2. If the condition	
Jehlengkeerp = 11	ed take a to tone	
	tues evert ton ob-	AVT
yldmosss fled	an beeniger fud Mare	
frayed, or	3, If webbing is cur	In Diguestiget
	DELONISMENTAGES, replac	T0003027
ics, off, sto.,opp.co.	4. Do not spill drin	19
akla, Never oil	od fled get terrei loud bns sugnot	650:50
	5, Use a NISSAN g	13
AGSDEA	_yishnessa (X11E)	Chechell
	ried neter A [D]	Rent seat beit

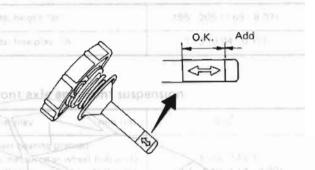
(3.65 - 4.65 hg-m,-

dit Ang clamps

m 26 A - 33.6 (t-lb)

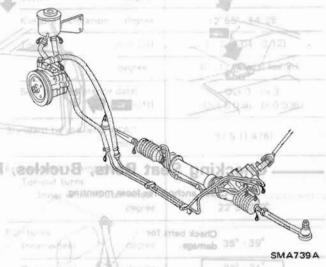
Checking Steering Gear _____Checking Power Steering ____ System Fluid and Lines INSPECTIO

Check fluid level, when the fluid is cold.



SMA750A

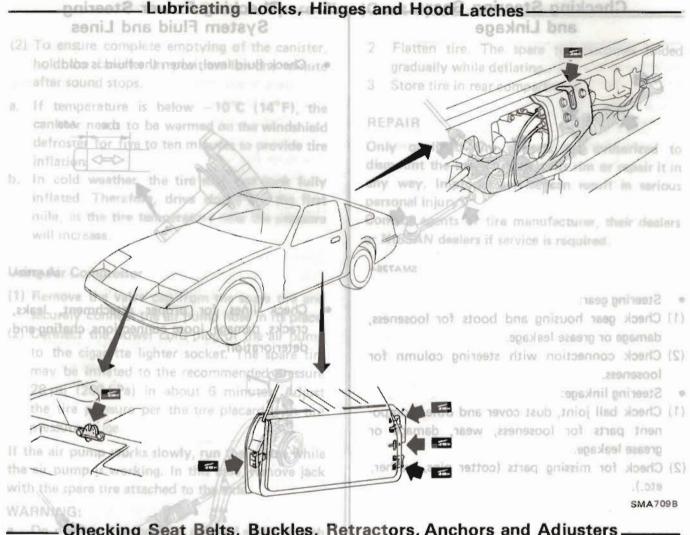
Check lines for proper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.



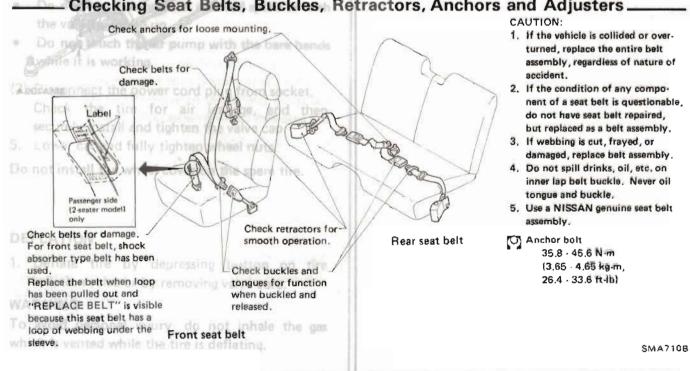
of restrict section of AND M. HOLL Figur axio and don't suspension Chack retractors for made being for demage. mooth operation For front astrobett, shock absorber type bett has been Check buckles and

Replace the best when loop tongues for function has been pulled out and "REPLACE BELT" is visible

because this seet belt has a loop of webbing under the Front seat belt .gvoels







SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Engine Maintenance Chassis and Body Maintenance

Tool-	number				Clutch	InU	BIBKS TRAMTSUI
Drive be	elt deflection	1.00	n-W	Unit: mm (in)	Clutch		Unit: mm (in)
/1-R. d	Use	d belt de	flection	Set deflec-	Pedal height	"H"	195 - 205 (7.68 - 8.07)
11		t al-	Adjusted deflection	tion of new belt	Pedal free p	(0000) o.c	1 - 3 (0.04 - 0.12)
Alternato	12	0	7,5 - 8,5 (0.30 - 0.33)	6.5 - 7.5 (0.26 - 0.30)	Eront av	let.o) oc	Front briks CL28VB CL28VE noisne
Air condi-	ENFERRED LA PIV		9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)	Axial play	mm (in)	Rear brake (0) 0
Power ste			12 - 14 (0.47 - 0.55)	Wheel bearin	ng preload ed at wheel hub bolt)	6.86 - 14.61 mm labe9	
Applied pushing for		98	N (10 kg, 22	Tie rod lock(d)	With nev	v parts N (kg, lb)	(0.7 - 1.49, 1.54 - 3.29)
	city (Refill)		-	€ (US qt, Imp qt)	With use	d parts N (kg, lb)	(0.17 - 0.79, 0.37 - 1.74)
111		ar -	VG30E	& VG30ET	Wheel alignr Camber	ment (Unladen) degree	[Under force of ABO N 150 kg, 110 lb) with 26 or 35 mining]
With oil fi	H - 22 - 01	- 22	O TAXABLE	/4, 3-1/2) /8, 3-1/8]	Caster	degree	5° 50' - 7° 20' and product
-				CONTROL TOTAL	Kingpin	inclination degree	12°55'-14°2505' и 801
Coolant	capacity	B†(-	88	ℓ (US qt, Imp qt)	Toe-in	(ai) mm	1 - 3 (0.04 - 0.12)
VG30E			190.4.40.04	t capacity -1/8, 9-1/4)		degree	6' - 17' (Total toe-in)
VG30ET			20 20 110	-5/8, 9-5/8)	Side slip	(Reference data)	Out 3 · In 3
Reservoir	tank		0.8 (7/8	3, 3/4)		mm/m (in/ft)	(Out 0.036 - In 0.036)
Spark p	olug				Standard tie	e rod length "A"	37.5 (1.476) 16 leoriV
· ·		V	330E	VG30ET		mm (in)	noutsimi sui
Standard	type	BCPF	R6ES-11	BCPR6E-11		turning angle	Proper tire pressures are show
Hot type		The state of the s		BCPR5E-11	Inner wheel/Outer wheel degree		the driver's side center piller
Cold type				BCPR7E-11			22°30′/20°
Plug gap		1.0 -	1.1 mm (0.0	39 - 0.043 in)	Full turns	neel degree	35° - 39°
Idle spe	ed			Unit:rpm	Outer w	80 km/n (bQ MP	27° - 31°
		N	1/T	A/T in "D" position)	• On powe	er steering models, who	eel turning force (at circumference N (10 - 15 kg, 22 - 33 lb) with
	At sea level	700	±50	700±50		t idle.	bos learnt min leadly
VG30E	At high altitude	650)±50	650±50	20112	and rear suspen	(ni) mm tuonus (sibe
VG30ET	condition	700	0±50	650±50	7.100	0.2 10.01	Inil men Suprin Install Halling
VGOOLI		700	7100	030330	Camber	degree	-1°55′ to -25′
TIGHT	ENING_TOR	QUE			Toe-in	(in) mm (in)	-1.5 to 2.5 (-0.059 to 0.098)
Unit		N-m	kg-m	ft-lb	(6)	degree	-8' to 14' (Total toe-in)
Oil pan dr	ain plug	29 - 39	3.0 - 4.	22 - 29	(8)	Spacing 5 (0,1	("ire balancing weight gr (oz)
Spark plu	g	20 - 29	2.0 - 3.	14 - 22		learby	1: Stant when *2: Atumoum
	clamps	1.0 - 1.5		.15 0.7 - 1.1		1.04177	THE PARTY OF THE P

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

_Chassis	and	Body	Maintenance	(Cont'd).

and the same of th	Unit: mm (in)	1.0			
Pad wear limit	1107010	Unit min : MinU	N·m	kg-m	ft-lb
Front brake	2.0 (0.079)	Clutch leb rea	Tiple dellaction		50.00
Rear brake	2.0 (0.079)	Pedal stopper lock	ethulba-37 la	0.8 - 1.1	5.8 - 8.0
Rotor repair limit	Pedal free play "A"	Clutch switch lock		1.2 - 1.5	9 - 11
Front brake	20 (0.79) 24 (0.94)	Master cylinder pus rod lock nut	HOLDE THE SERVE	0.8 - 1.2	0.0 - 0.7
CL28VB CL28VE		Manual transmission	10-08-01		
	The state of the s	Drain and filler plu	ugs 25 - 34	2.5 - 3.5	18 - 25
Rear brake (0) 0 CL14HVB	18 (0.71)	Differential carrier Drain and filler place		6-10	43 - 72
Pedal free height "h"	pantid humbh mitte	Front axle and front	37 - 27	121	gmuq ili
M/T model	182 - 192 (7.17 - 7.56)	suspension			
A/T model	184 - 194 (7.24 - 7.64)	Tie rod lock nut	78 - 98	8 - 10	58 - 72
Pedal depressed height	With used offers NV lists tell	Brake Air bleeder valve	7.9	0.7 - 0.9	
[Under force of 490 N (50 kg,	90 (3,54) or more	Stop lamp switch		1.2 - 1.5	9 - 11
110 lb) with engine running]	Camber / degree	lock nut	SI GO Y	1.2 1.0	
Parking brake	Castel (Sector)	Brake booster inpu		1.6 - 2.2	12 - 16
[at pulling force: 196 N (20 kg, 44 lb)]	Kungpin inclination degree	rod lock nut		_	ant no tooton
Number of notches	8 - 10	Wheel and tire Wheel nut	98 - 118	10.0 - 12.0	72 - 87
8 - 12/Hets/Joe in	The same of the sa	A Ambadab Tunio	003		
400	narrieb	16) OF STEEL OF			3000
10 a 2 - 1n 3	Side also (Perference data)	11 0 (11 6/8, 7-5/8		GOORT	
rocurum - activation		7/ N = 1/180		eservoir tank	
Wheel and tire	"A" stagnal box as traspered. (as) mm	ark plug			Spark plug
Tire inflation		VG30ET	VG30E		
Proper tire pressures are show	n on the tire placard affixed	stractorandhdhdh	STEERING A	ajuster	NOT BUILDING
to the driver's side center pilla	r of vehicle.	BCPR5E-11	BOPASES 11	etuda u ced	mind 1849/2, 104
22.30/30	serget)	BCPRJR-11	FIRST PROPERTY		emire@ysblo0
"ec - "ac (Sheck bell)	Do not use in excess of	0.039 - 0.043 in)	mm I I - O'T	div. rape	THE RES
Spare tire C78-14	80 km/h (50 MPH).	The second secon	mendition of any campo- of a seat term is theodor sife.		
27"-31"	28 psi (200 kPa)	mqritinU	Hairt s	Party and have	- 5000ds.nlp
Tire pressure should be checked wh	nen tires are COLD	T/A (nointeen "Q" ni)		placent as a to	
mind (n) eminde (n) en (n) (n)	AL FIRE COMPLETE TIMELIN BULLDRING TO	700+50[2]		olong ir evo, h old, contant ir	
Wheel rim lateral and mm (in)	Less than 1.0 (0.039)*1 0.5 (0.020)*2	700	4. 0000	THE THIRD THE	ATA HOLON
4 1	Parada Antonia de Caración de	08::50	08:068	wand function	
Difference between right mm (in)	Less than 0.5 (0.020)*1 0.2 (0.008)*2	Ottober 1		Alega Anglithmen	
Wheel balance	Cambet dispess	850:50	03±005		/G30ET
(Maximum allowable gr (oz)	10 (0.35)	Hen seat belt	E Andre	and the second s	IGHTENII
unbalance at rim flange)	Assess Check buckles and	-	12	45-455-6	
Tire balancing weight gr (oz)	5 - 60 (0.18 - 2,12)	di-ri n	n-gal mate	A 37 to 11 to	bol
The balancing weight 9 (02)	Spacing 5 (0.18)	4.0 22-29	29 39 3.0	Dr.	of pan crain pa
1: Steel wheel *2: Aluminum		3.0 14 - 22	20 29 2.0		gulig shaqi
	tont seet best	1-1-50 81.0-6			

		ENGINE MECHANICAL		
Tool number (Kent-Moore No.)	Tool name	ERA		
EG11150000 (-)	Ignition coil adapter harness	SEG SING TO THE SEG SING TO TH		
KV10105900 (J34274)	Oil filter wrench			
PREPARATION	IIIIII III maanaacaa			
	VG308			
	EN FS — Outer Parts			
	RESSIGN PRESSURE			
	rutullation			
	- Disasembly			
	CEMENT			
	UL more entre entr			
	UL - Disassembly			
	AND SPECIFICATIONS (S.D.S.			