MAINTENANCE

SECTION MA

GI

| EM |
|----|
| |

LC

EF & EC

CONTENTS

٦

| GENERAL MAINTENANCE | . 2 |
|-----------------------------------|-----|
| PERIODIC MAINTENANCE | . 4 |
| Schedule 1 | . 5 |
| Schedule 2 | . 6 |
| RECOMMENDED FLUIDS AND LUBRICANTS | . 7 |
| Fuel and Lubricants | . 7 |
| SAE Viscosity Number | . 7 |

VG30E

Г

| ENGINE MAINTENANCE | 8 |
|-----------------------------|----|
| Checking Drive Belts | 8 |
| Changing Engine Coolant | 8 |
| Checking Fuel Lines | 9 |
| Changing Fuel Filter | 10 |
| Changing Air Cleaner Filter | 10 |
| Changing Engine Oil | 10 |
| Changing Oil Filter | 11 |
| Changing Spark Plugs | 11 |
| Checking Vapor Lines | 12 |

VE30DE

Γ

| | 13 |
|-----------------------------|----|
| Checking Drive Belts | 13 |
| Changing Engine Coolant | 13 |
| Checking Fuel Lines | 15 |
| Changing Fuel Filter | 15 |
| Changing Air Cleaner Filter | 16 |

| Changing Engine Oil16 | ۶Ľ |
|------------------------|-----|
| Changing Oil Filter16 | |
| Changing Spark Plugs | രി |
| Checking Vapor Lines17 | CL. |

| CHASSIS AND BODY MAINTENANCE | MT |
|--|--------|
| Checking Exhaust System18 | 100 B |
| Checking Clutch Fluid Level and Leaks | |
| Checking M/T Oil18 | AT |
| Changing M/T Oil | |
| Checking A/T Fluid18 | |
| Changing A/T Fluid19 | FA |
| Balancing Wheels19 | |
| Tire Rotation19 | RA |
| Checking Brake Fluid Level and Leaks | 511/53 |
| Checking Brake Lines and Cables | |
| Checking Disc Brake20 | BR |
| Checking Drum Brake20 | |
| Checking Steering Gear and Linkage | 0- |
| Checking Power Steering Fluid and Lines | ST |
| Lubricating Locks, Hinges and Hood Latches23 | |
| Checking Seat Belts, Buckles, Retractors, | BF |
| Anchors and Adjusters23 | יועשו |
| SERVICE DATA AND SPECIFICATIONS (SDS)24 | |
| Engine Maintenance (VG30E)24 | EA |
| Engine Maintenance (VE30DE)24 | |
| Chassis and Body Maintenance25 | |
| | ΞL |

(D)X

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.

| Item | Reference page |
|---|----------------|
| OUTSIDE THE VEHICLE The maintenance items listed here should be performed from time to time, unless other- wise specified. | |
| Tires Check the pressure with a gauge periodically when at a service station, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear. | _ |
| Wheel nuts When checking the tires, make sure no nuts are missing, and check for any oose nuts. Tighten if necessary. | — |
| Tire rotation Tires should be rotated every 12,000 km (7,500 miles). | MA-19 |
| Wheel alignment and balance If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed. | MA-19 FA-6 |
| Windshield wiper blades Check for cracks or wear if they do not wipe properly. | |
| Doors and engine hood Check that all doors and the engine hood operate smoothly as well as the trunk lid 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 materials, check lubrication fre- quently. | MA-23 |
| NSIDE THE VEHICLE The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc. | |
| .ights Make sure that the headlights, stop lights, tail lights, turn signal lights, and other ights are all operating properly and installed securely. Also check headlight aim. | |
| Narning lights and buzzers/chimes Make sure that all warning lights and buzzers/chimes are operating properly. | _ |
| Windshield wiper and washer Check that the wipers and washer operate properly and that he wipers do not streak. | |
| Vindshield defroster Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner. | |
| Steering wheel Check that it has the specified free play. Be sure to check for changes in he steering condition, such as excessive free play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in) | — |
| eats Check seat position controls such as seat adjusters, seatback recliner, etc. to nsure they operate smoothly and that all latches lock securely in every position. Check hat the head restrains move up and down smoothly and that the locks (if so equipped) old securely in all latched positions. Check that the latches lock securely for folding- own rear seatbacks. | |
| ieat 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 vebbing for cuts, fraying, wear or damage. | MA-23 |

GENERAL MAINTENANCE

| el. Kes Check that the brake does not pull the vehicle to one side when applied. Kes Check that the brake does not pull the vehicle to one side when applied. Ke pedal Check the pedal for smooth operation and make sure it has the proper dis- ee under it when depressed fully. Check the brake booster function. Be certain to keep Br floor mats away from the pedal. King brake Check that the lever has the proper travel and confirm that your vehicle is I securely on a fairly steep hill with only the parking brake applied. Dismatic transaxle "Park position" mechanism Check that the lock release button on the ector lever operates properly and smoothly. On a fairly steep hill check that your vehi- is held securely with the selector lever in the "P" position without applying any tes. DER THE HOOD AND VEHICLE maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or retuel). dshield washer fluid Check that there is adequate fluid in the tank. Ine coolant level Check the toool ant level when the engine is cold. MAA iator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure that the brake and clutch fluid levels are between "MAX" and "MIN" lines on the reservoir. ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" a. med off Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MAA: "and "Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after putting the selector mid level Check the level on the dipstick after putting the selector med off. Check the level on the dipstick after putting the selector in "P" with the engine idling. Mast seems unusual or there is a smell of exhaust fumes, immediately locate the be and correct it. ersody the underbody is frequently exposed to corrosive substances such as those i on icy roads or to cortroi dust. It is very important to remove these substances, | ence page |
|---|-----------------|
| ke pedal Check the pedal for smooth operation and make sure it has the proper dis- te under it when depressed fully. Check the brake booster function. Be certain to keep Bit filtor mats away from the pedal. Bit king brake Check that the lever has the proper travel and confirm that your vehicle is Bit is securely on a fairly steep hill with only the parking brake applied. Bit omatic transaxle "Park position" mechanism Check that the lock release button on the Bit ctor 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 test Bit PER THE HOOD AND VEHICLE maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or refuel). MA dshield washer fluid Check that there is adequate fluid in the tank. Ince coolant level Check the coolant level when the engine is cold. MA lator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. MA regr Check the fluid level in each cell. It should be between the "MAX" and "MIN" MA erf or the bits Make sure that no belt is frayed, worn, cracked or oily. MA me dive belts Make sure that no belt is frayed, worn, cracked or oily. MA er of t | CL-4 |
| be under it when depressed fully. Check the brake booster function. Be certain to keep Bf filtor mats away from the pedal. Bi king brake Check that the lever has the proper travel and confirm that your vehicle is B is securely on a fairly steep hill with only the parking brake applied. B matte transaxte "Park position" mechanism Check that he lock release button on the corrective operates properly and smoothly. On a fairly steep hill check that your vehicles is held securely with the selector lever in the "P" position without applying any tes. VER THE HOOD AND VEHICLE maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or retuel). dshield washer fluid Check that there is adequate fluid in the tank. MA ine coolant level Check the coolant level when the engine is cold. MA lator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. MA rery Check the fluid level in each cell. It should be between the "MAX" and "MIN" MA me oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA er steering fluid level and lines Check the level when the fluid is cold and the engine med off. Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA er steering fluid level Che | |
| i securely on a fairly steep hill with only the parking brake applied. B i securely on a fairly steep hill check that the lock release button on the ector lever operates properly and smoothly. On a fairly steep hill check that your vehilis held securely with the selector lever in the "P" position without applying any res. DEE THE HOOD AND VEHICLE maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or refuel). dishield washer fluid Check that there is adequate fluid in the tank. MAA iator and hoses Check the coolant level when the engine is cold. MAA iator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. MAA ee and clutch fluid levels Make sure that the brake and clutch fluid levels are between MAA?" and "MIN" lines on the reservoir. MAA as. ine drive betts Make sure that no bolt is frayed, worn, cracked or oily. MAA ine drive betts Make sure that no bolt is frayed, worn, cracked or oily. MAA ine drive betts the lines for proper attachment, leaks, cracks, etc. MAA matic transaxte fluid level and lines Check the level when the fluid is cold and the engine rine doff. Check the lines for proper attachment, leaks, cracks, etc. MAA matic transaxte fluid level Check the level on the dipstick after putting the selector rin "P" with the engine idling. MAA | R-7, 8 |
| Action lever operates properly and smoothly. On a fairly steep hill check that your vehi- is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector lever in the "P" position without applying any is held securely with the selector level is the interval of the radiator and clean off any dirt, insects, leaves, itat may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. ce and clutch fluid levels Make sure that the brake and clutch fluid levels are between MAX" and "MIN" lines on the reservoir. ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" is. ref check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA < | 3R-28 |
| maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or refuel). Maintenance items listed here should be checked periodically (e.g. each time you ck the engine oil or refuel). dshield washer fluid Check that there is adequate fluid in the tank. MA ine coolant level Check the coolant level when the engine is cold. MA lator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. MA Ke and clutch fluid levels Make sure that the brake and clutch fluid levels are between MAX" and "MIN" lines on the reservoir. MA ery Check the fluid level in each celi. It should be between the "MAX" and "MIN" s. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA er steering fluid level and lines Check the level when the fluid is cold and the engine med off. Check the lines for proper attachment, leaks, cracks, etc. M. must transaxte fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. M. ble and correct it. erbody The underbody is frequently exposed to corrosive substances such as those do no cy roads or to control dust. It is very important to remove the | _ |
| ine coolant level Check the coolant level when the engine is cold. MA iator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. see and clutch fluid levels Make sure that the brake and clutch fluid levels are between MA "MAX" and "MIN" lines on the reservoir. MA ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" MA ine drive belts Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA er steering fluid level and lines Check the level when the fluid is cold and the engine med off. Check the lines for proper attachment, leaks, cracks, etc. M. matic transaxle fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. M. bele and correct it. erbody The underbody is frequently exposed to corrosive substances such as those of on icy roads or to control dust. It is very important to remove these substances, othese rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being <td></td> | |
| aitor and hoses Check the front of the radiator and clean off any dirt, insects, leaves, that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. ce and clutch fluid levels Make sure that the brake and clutch fluid levels are between "MAX" and "MIN" lines on the reservoir. ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" s. ine drive belts Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. er steering fluid level and lines Check the level when the fluid is cold and the engine rn "P" with the engine idling. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the bel and correct it. erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At | |
| that may have accumulated. Make sure the hoses have no cracks, deformation, rot or e connections. tee and clutch fluid levels Make sure that the brake and clutch fluid levels are between "MAX" and "MIN" lines on the reservoir. ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" s. ine drive belts Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. er steering fluid level and lines Check the level when the fluid is cold and the engine rne off. Check the lines for proper attachment, leaks, cracks, etc. omatic transaxle fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the ble and correct it. erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At | A-9, 14 |
| "MAX" and "MIN" lines on the reservoir. MA ery Check the fluid level in each cell. It should be between the "MAX" and "MIN" S. ine drive belts Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA er steering fluid level and lines Check the level when the fluid is cold and the engine rned off. Check the lines for proper attachment, leaks, cracks, etc. M. omatic transaxle fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. M. ble and correct it. erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, othse rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being | _ |
| s. Ine drive belts Make sure that no belt is frayed, worn, cracked or oily. MA ine oil level Check the level on the dipstick after parking the vehicle on a level spot turning off the engine. MA- er steering fluid level and lines Check the level when the fluid is cold and the engine rned off. Check the lines for proper attachment, leaks, cracks, etc. M. promatic transaxle fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the ble and correct it. erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being | A-18, 20 |
| Ine oil level Check the level on the dipstick after parking the vehicle on a level spot MA- turning off the engine. MA- er steering fluid level and lines Check the level when the fluid is cold and the engine M. rned off. Check the lines for proper attachment, leaks, cracks, etc. M. prmatic transaxle fluid level Check the level on the dipstick after putting the selector M. r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of M. exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. ble and correct it. Erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, oth- Ser rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being M. | |
| turning off the engine. MA- er steering fluid level and lines Check the level when the fluid is cold and the engine rned off. Check the lines for proper attachment, leaks, cracks, etc. M. omatic transaxle fluid level Check the level on the dipstick after putting the selector r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. M. ble and correct it. Erbody The underbody is frequently exposed to corrosive substances such as those on icy roads or to control dust. It is very important to remove these substances, othese rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being | 4-8, 13 |
| rned off. Check the lines for proper attachment, leaks, cracks, etc. M. pmatic transaxle fluid level Check the level on the dipstick after putting the selector M. r in "P" with the engine idling. M. aust system Make sure there are no loose supports, cracks or holes. If the sound of M. exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the M. ble and correct it. M. erbody The underbody is frequently exposed to corrosive substances such as those M. d on icy roads or to control dust. It is very important to remove these substances, othse rust will form on the floor pan, frame, fuel lines and around the exhaust system. At M. end of winter, the underbody should be thoroughly flushed with plain water, being M. | -1 1, 16 |
| r in "P" with the engine idling. Aust system Make sure there are no loose supports, cracks or holes. If the sound of exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the ble and correct it. erbody The underbody is frequently exposed to corrosive substances such as those d on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being | 1A-21 |
| exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the Mable and correct it. erbody The underbody is frequently exposed to corrosive substances such as those if on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At end of winter, the underbody should be thoroughly flushed with plain water, being | 1A-18 |
| d on icy roads or to control dust. It is very important to remove these substances, oth- se rust will form on the floor pan, frame, fuel lines and around the exhaust system. At and of winter, the underbody should be thoroughly flushed with plain water, being | 1A-18 |
| ful to clean those areas where mud and dirt can easily accumulate | _ |
| I leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle been parked for a while. Water dripping from the air conditioner after use is normal. If should notice any leaks or gasoline fumes are evident, check for the cause and cor- it immediately. | |

[DX

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

SCHEDULE 1

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

- Repeated short trips of less than 5 miles (8 km).
- Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.
- Operating in hot weather in stop-and-go "rush hour" traffic.
- Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.
- Driving in dusty conditions.
- Driving on rough, muddy, or salt spread roads.
- Towing a trailer, using a camper or a car-top carrier.

SCHEDULE 2

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

| Abbreviations: R = Replace. I = Inspect. Co | Inspect. Correct or replace if necessary. | ıry. | | | : | | |]: At the |]: At the mileage intervals only | e interva | ils only |
|--|---|---|---|--|--------------------------------------|------------------------------|---------------------|-----------------------|----------------------------------|------------------------------|-----------------|
| MAINTENANCE OPERATION | | | LNIAM | MAINTENANCE INTERVAL | TERVAL | | | | | | |
| Perform at number of miles, | Miles x 1,000 | 3.75 7.5 11.25 15 18.75 | 75 22.5 26.25 | 5 30 33.75 | 37.5 41.25 | 45 | 48.75 52. | 52.5 56.25 | 60 | | |
| kilometers or months. | (km × 1,000) | (6) (12) (18) (24) (3 | (30) (36) (42) | (48) (54) | (60) (66) | (72) | (78) (84) | (06) | (96) Bef | Reference page | page |
| whichever comes lirst. | Months | 3 6 9 12 1 | 15 18 21 | 24 27 | 30 33 | | 39 42 | 42 42 | 48 | | |
| Emission control system maintenance | ce | | | | | | | | 107 | VG30E VE | VE30DE |
| Drive beits | See NOTE (1) | | 2 | | | | ĺ | | - W/ | MA-8 | MA-13 |
| Air cleaner filter | See NOTE (2) | | | E | | | | | [R] MA | - | MA-16 |
| Vapor lines | | | | *_ | | | ļ | | MA *1 | MA-12 N | MA-17 |
| Fuel lines | | | | - - | | | | | -MA | MA-9 | MA-15 |
| Fuel filter | See NOTE (3)* | | | | | | | ĺ | MA | | MA-15 |
| Engine coolant | See NOTE (4) | | | | | | | | R* M∕ | | MA-13 |
| Engine of | | а а | т Т | ц Ц Ц Ц Ц Ц Ц | С С | m | E E | ac. | RA MA | - | MA-16 |
| Engine oil filter | See NOTE (5) | н н н н н н н н н н н н н н н н н н н | н н н | ы В С | а С | d ar | | œ | | | MA-16 |
| Spark plugs VE30DE engine (Use PLATINUM-TIPPED type) | NUM-TIPPED type) | | | | | | | | | | MA-17 |
| VG30E engine | | | | [E] | | | ÷ | | [R] MA-11 | | |
| Timing belt (VG30E engine only) | | | | | | | | | | | |
| Chassis and body maintenance | | | | | | | | | | | |
| Brake lines & cables | - | | | - | | - | | | | | |
| Brake pads, discs, drums & linings | | | - | - | - | . _ | - | | - _ | | |
| Manual & automatic transaxle oil | See NOTE (6) | | | - | | - | | | . _ | | |
| Steering gear & linkage, axle & suspension parts | Darts | - | _ | _ | - | - | - | | ∑ - - | MA-21, FA-5, | A-5, |
| Steering linkage ball joints & front suspension ball joints | n ball ioints | | - | - | | . | | | | RA-4 | |
| Exhaust system | | | - . | _ | | - | - | | Σ - | MA-21, FA-5 | A-5 |
| Drive shaft boots | | - - | _ . | - - | | - | - | | _ | MA-18 | |
| Air han system | | - | _ | - | - | - | - | | _ | FA-7 | |
| BF-85 NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. (2) If operating mainly in dusty conditions, more frequent maintenance may be required. (3) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become clogged. In such an event, replace them immediately. (4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months. (5) Use Part No. 15208-60U00 or equivalent on VE30DE engine, and Nissan PREMIUM type or equivalent on VG30E engine. (6) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months. | or 48 months, inspect ev nditions, more frequent i tremely adverse weather In such an event, replace or 48 months, replace ev quivalent on VE30DE en quivalent on VE30DE en | PF-85 Spect every 15,000 miles (24,000 km) or 12 months. Requent maintenance may be required. Weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the t, replace them immediately. Place every 30,000 miles (48,000 km) or 24 months. SODE engine, and Nissan PREMIUM type or equivalent on VG30E engine. Carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) | (m) or 12 m ired. lere ambien (m) or 24 m M type or e- uddy roads, | onths. it tempera ionths. quivalent (| tures are on VG30E not just ir | either e engine spect) | extreme in at ev | ly low oi ery 30,0 | r extrem 00 miles | BF-85 ely hig s (48,00 | h, the 0 km) |
| Inspect the air bag system 10 years after the date of manufacture as noted on the F.M.V.S.S. certification label. 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. | years after the date of m als with "*" are recomm warranty or manufactur | ate of manufacture as noted on the F.M.V.S.S. certification label. recommended by NISSAN for reliable vehicle operation. The owner need not nufacturer recall liability. Other maintenance items and intervals are required. | le F.M.V.S.S able vehicle laintenance | b. certificat operation items and | ion label . The ow interval | ner nec s are re | d not p quired. | erform : | such ma | intenar | nce in |
| HA El IDX | BR ST BF | AT FA RA | MT | Cl | <u> </u> | EF (| LC | EM | ľ | GI | <u>م</u> ا |
| | | | | | |) X | | | MA | | |

MA-5

PERIODIC MAINTENANCE

Schedule 1

35

| Perform at number of miles, kilometers or months, whichever comes tirst. Miles x 1,000 7.5 6 2.5 30 37.5 45 25 6 49 69 49 69 49 69 42 48 Wilchever comes tirst. Months. Months Kor x 1.000 (12) (24) (50) (49) (50) (49) (50) (49) (50) (40) (50) (40) (50) (40) (50) (40) (50) (40) (50) (40) (50) (40) (50) (40) (50) (40) (50) (72) (50) (72) (50) (72) (50) (72) (50) (72) (50) (72) (50) (72) (71) | | |
|---|-----------|-------------------|
| kilometers or months, windhever comes tirst. (km x 1,000) (12) (24) (36) (72) (31) months months 6 12 13 24 30 36 22 minitever comes tirst. Months See NOTE (1) r r r r Drive belts See NOTE (1) See NOTE (1) r r r r Months See NOTE (2) See NOTE (2) R R R R R R Months Even NTE (2) See NOTE (2) R | 22 | |
| Monthere | (96) | Reference page |
| Emission control system maintenance See NOTE (1) I Drive belts See NOTE (1) I Ari cleaner filter I I Ario filter I I Vapor filter I I Vapor filter I I Vapor filter See NOTE (2)* I Full litter See NOTE (2)* I Frighte collart See NOTE (2)* I Engine olit See NOTE (3) I Engine olit See NOTE (4) I I Engine olit Vaste Rate See NOTE (4) I I Engine olit Vaste Rate See NOTE (4) I I I Intere & Caste Vaste Rate See NOTE (4) <th></th> <th></th> | | |
| Drive bells See NOTE (1) IP Air cleaner filter IP IP Air cleaner filter IP IP Vapor lines IP IP Fuel lines See NOTE (2)* IP Fuel line See NOTE (4) IP IP Fuel line VE30DE engine (Use PLATINUM-TIPPED type) IP IP Stark plugs VE30DE engine (Use PLATINUM-TIPPED type) IP IP Stark plugs VE30DE engine (Use PLATINUM-TIPPED type) IP IP IP Stark plugs VE30DE engine (Use PLATINUM-TIPPED type) IP IP IP IP Stark plugs VE30DE engine (Use PLATINUM-TIPPED type) IP IP IP IP Stark plugs VE30DE engine VE30DE engine IP IP IP | VG30E | DE VE30DE |
| Air cleaner filter IP Vapor lines I Vapor lines I Fuel lines I Fuel lines See NOTE (2)* Fuel line See NOTE (2)* | I* MA-8 | 8 MA-13 |
| I I See NOTE (2)* I See NOTE (3) R R R R See NOTE (3) R R R R R See NOTE (3) R R R R R R MultiPPED type) See NOTE (4) R R R R R MultiPPED type) I I I I I I I Image: Rel type | [R] MA-10 | 10 MA-16 |
| See NOTE (2)* See NOTE (2)* See NOTE (3) R R R R R R See NOTE (4) R R R R R R M-TIPPED type) See NOTE (4) R R R R R R M-TIPPED type) Image: See NOTE (4) R R R R R R Image: See NOTE (4) R R R R R R R R Image: See NOTE (4) R | 1* MA-12 | 12 MA-17 |
| See NOTE (2)* See NOTE (2)* See NOTE (3) R | I* MA-9 | 9 MA-15 |
| See NOTE (3) R <t< td=""><td>MA-10</td><td>10 MA-15</td></t<> | MA-10 | 10 MA-15 |
| R R R R R R R R R R R R R R R R R R R | R* MA-8 | 8 MA-13 |
| See NOTE (4) R R R IM-TIPPED type) [R] [R] [R] Image: See Note of the second se | | |
| (M-TIPPED type) | R MA-11 | 11 MA-16 |
| | [B] | MA-17 |
| | [R] MA-11 | |
| | | |
| Brake lines & cables I | | |
| Brake pads, discs, drums & linings I | _ | MA-20 |
| Manual & automatic transaxle oil III | | MA-21 |
| Steering gear linkage, axle & suspension parts | - | MA-18 |
| | - MA-21, | MA-21, FA-5, RA-4 |
| Exhaust system | - | MA-18 |
| Drive shaft boots | - | FA-7 |
| Air bag system | | BF-85 |

PERIODIC MAINTENANCE

Schedule 2

36

| | Ca | pacity (Approxima | Decommonded fluids and lubricents | | |
|---------------------------|------------------|-------------------|-----------------------------------|--|--|
| | US measure | Imp measure | Liter | — Recommended fluids and lubricants | |
| Engine oil (Refill) | | | | | |
| VG30E engine | | | | | |
| With oil filter | 4-1/8 qt | 3-3/8 qt | 3.9 | | |
| Without oil filter | 3-3/4 qt | 3-1/8 qt | 3.5 | Energy Concerning Oils of ADI CC*0, *9 | |
| VE30DE engine | | | | Energy Conserving Oils of API SG*2, *3 | |
| With oil filter | 4 qt | 3-3/8 qt | 3.8 | | |
| Without oil filter | 3-5/8 qt | 3 qt | 3.4 | | |
| Cooling system | | | | | |
| (Reservoir tank included) | | | | | |
| VG30E engine | 8-3/4 qt | 7-1/4 qt | 8.3 | Anti-freeze coolant | |
| VE30DE engine | 11-1/4 qt | 9-3/8 qt | 10.6 | (Ethylene glycol base) | |
| Manual transaxle gear oil | | | | | |
| RS5F50V | 8-7/8 - 9-1/2 pt | 7-3/8 - 7-7/8 pt | 4.2 - 4.5 | API GL-4*2 | |
| RS5F50A | 9-1/4 - 10 pt | 7-3/4 - 8-1/4 pt | 4.4 - 4.7 | API GL-4*2 | |
| Automatic transaxle fluid | | | | | |
| VG30E engine models | 7-7/8 qt | 6-1/2 qt | 7.4 | Genuine Nissan ATF*1 or equivalent | |
| VE30DE engine models | 10-1/8 qt | 8-1/2 qt | 9.6 | Type DEXRON [™] II-E | |
| Power steering fluid | | | | Type DEXRON ^{™II} or equivalent | |
| | | | | Genuine Nissan Brake Fluid*1 | |
| Brake & Clutch fluid | | — | | or equivalent | |
| | | | | DOT 3 (US FMVSS No. 116) | |
| Multi-purpose grease | | | | NLGI No. 2 (Lithium soap base) | |

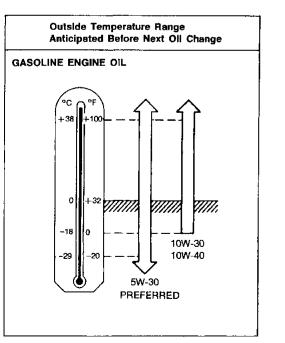
Fluids and Lubricants

*1: Available in mainland U.S.A. through your Nissan dealer.

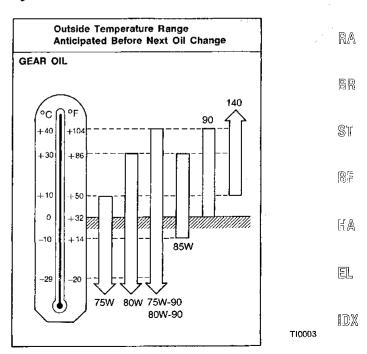
*2: For further details, see "SAE Viscosity Number".

*3: Energy conserving oils

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



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



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

SAE Viscosity Number

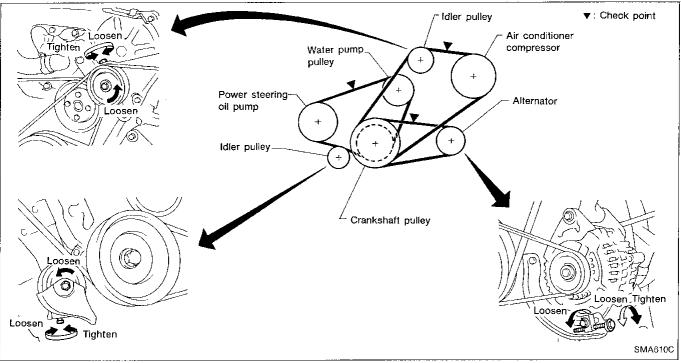
TI0008

37

AT

FA





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

Adjust if belt deflection exceed the limit. Belt deflection:

Unit: mm (in)

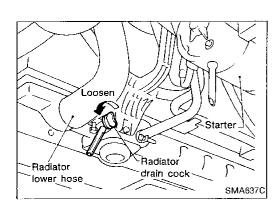
| | Used belt | deflection | Deflection of new | |
|----------------------------|--|--------------------------------|------------------------|--|
| | Limit | Deflection after adjustment | belt | |
| Alternator | 12 (0.47) | 7 - 9 (0.28 - 0.35) | 6 - 8 (0.24 - 0.31) | |
| Air conditioner compressor | 10 (0.39) | 4 - 6 (0.16 - 0.24) | | |
| Power steering oil pump | 10 - 12 8 - 10 16 (0.63) (0.39 - 0.47) (0.31 - 0.39) | | | |
| Applied pushing force | 98 N (10 kg, 22 lb) | | | |

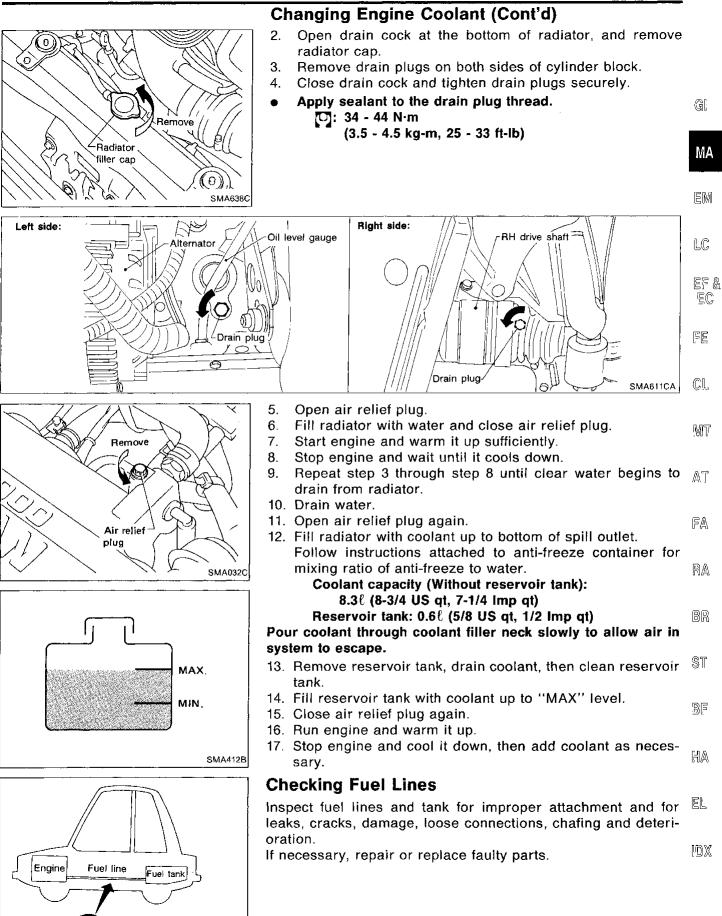
Inspect drive belt deflection when engine is cold.

Changing Engine Coolant WARNING:

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

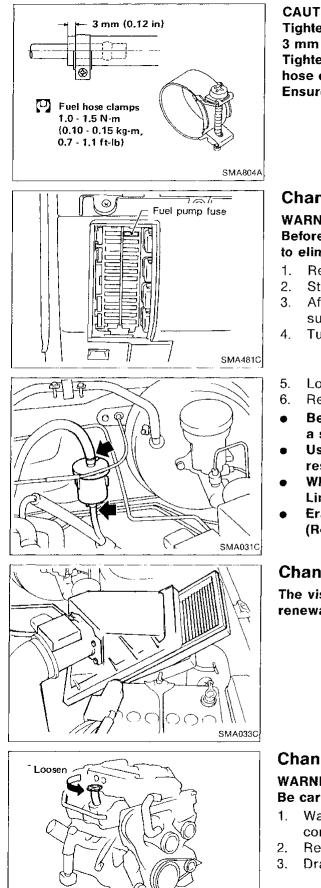
- Manual air conditioner models:
- Move heater "TEMP" control lever all the way to "HOT". 2) Auto air conditioner equipped models:
 - Turn ignition switch "OFF".





SMA803A

VG30E



Checking Fuel Lines (Cont'd)

CAUTION:

Tighten high-pressure rubber hose clamp so that clamp end is 3 mm (0.12 in) from hose end.

Tightening torque specifications are the same for all rubber hose clamps.

Ensure that screw does not contact adjacent parts.

Changing Fuel Filter

WARNING:

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

- Remove fuse for fuel pump.
- Start engine.
- After engine stalls, crank engine two or three times to make sure that fuel pressure is released.
- Turn ignition switch off and install fuse for fuel pump.
- Loosen fuel hose clamps.
- Replace fuel filter.
- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.
- When tightening fuel hose clamps, refer to "Checking Fuel Lines".
- Erase memory (Diagnostic trouble code No. 22) from ECM. (Refer to EF & EC section.)

Changing Air Cleaner Filter

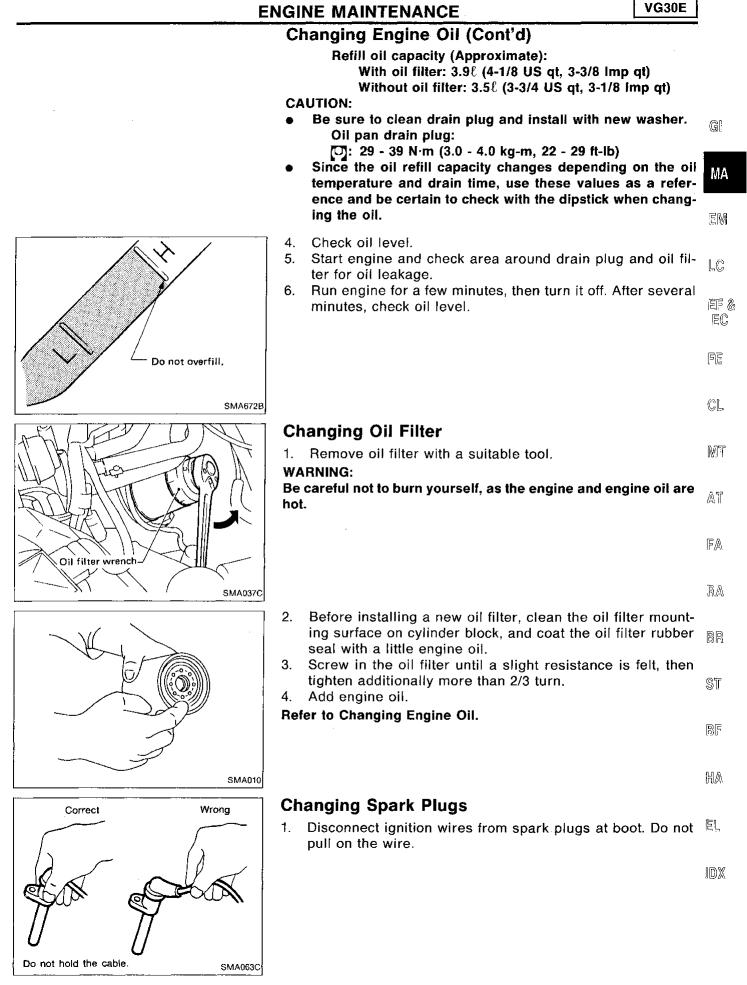
The viscous paper type filter does not need cleaning between renewals.

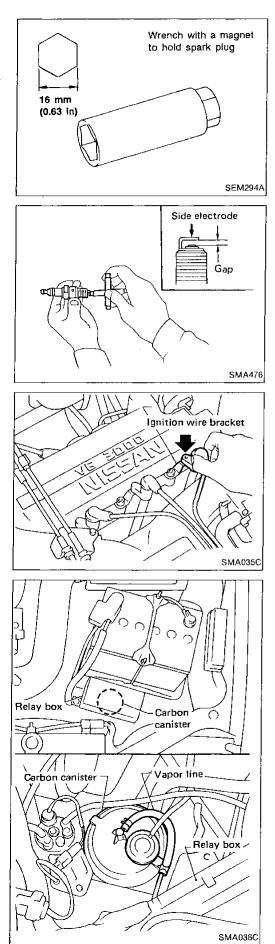
Changing Engine Oil WARNING: Be careful not to burn yourself, as the engine oil is hot. Warm up engine, and check for oil leakage from engine components. Remove drain plug and oil filler cap.

SMA034C

Loosen

Drain oil and refill with new engine oil. Oil grade: API SG Viscosity: See "RECOMMENDED FLUIDS AND LUBRICANTS" in MA section.





Changing Spark Plugs (Cont'd)

- 2. Remove spark plugs with spark plug wrench.
- 3. Clean plugs in sand blast cleaner.
- Check insulator for cracks or chips, gasket for damage or deterioration and electrode for wear and burning. If they are excessively worn away, replace with new spark plugs.

Spark plug:

| Standard type | BKR5ES-11 |
|--------------------|-----------|
| Option for service | BKR6ES-11 |
| Cold type | BKR7ES-11 |

5. Check spark plug gap.

Gap:

1.0 - 1.1 mm (0.039 - 0.043 in)

6. Install spark plugs. Reconnect ignition wires according to Nos. indicated on them.

When installing spark plugs to No. 2, 4, and 6 cylinders, securely fit each ignition wire mounting hole onto the ignition wire bracket pin.

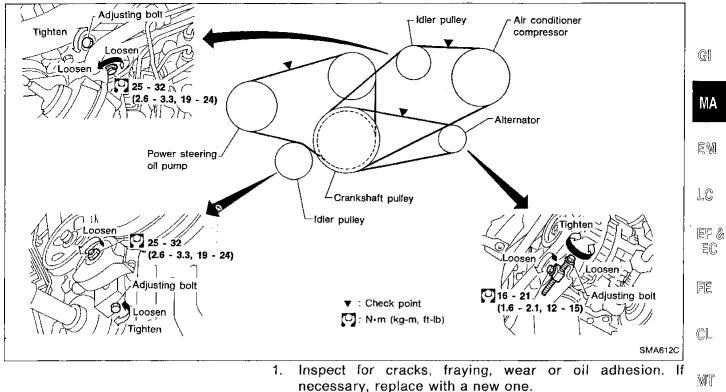
Spark plug: []: 20 - 29 N·m (2.0 - 3.0 kg-m, 14 - 22 ft-lb)

Checking Vapor Lines

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

Refer to "EVAPORATIVE EMISSION SYSTEM" in EF & EC section.

Checking Drive Belts



2. Inspect drive belt deflections by pushing on the belt midway between pulleys.

Adjust if belt deflections exceed the limit. Belt deflection:

Unit: mm (in) FA

AT

| | Used belt deflection | | Deflection of new | |
|-------------------------------|--------------------------------|--------------------------------|------------------------------|--|
| | Limit | Deflection after adjustment | belt | |
| Alternator | 11.5 - 12.5 (0.453 - 0.492) | 7.5 - 8.5 (0.295 - 0.335) | 6.5 - 7.5 (0.256 - 0.295) | |
| Air conditioner compressor | 8.5 - 9.5 (0.335 - 0.374) | 5.5 - 6.5 (0.217 - 0.256) | 5 - 6 (0.20 - 0.24) | |
| Power steering oil pump | 11.5 - 12.5 (0.453 - 0.492) | 7.5 - 8.5 (0.295 - 0.335) | 6.5 - 7.5 (0.256 - 0.295) | |
| Applied pushing force | | 98 N (10 kg, 22 lb) | | |

Inspect drive belt deflections when engine is cold.

HA

EL

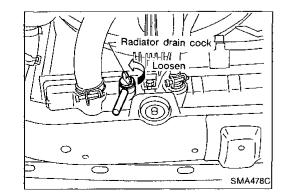
IDX

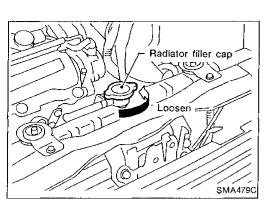
Changing Engine Coolant

WARNING:

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

- 1.
- Manual air conditioner models:
- Move heater "TEMP" control lever all the way to "HOT".
- Auto air conditioner equipped models: Turn ignition switch "OFF".



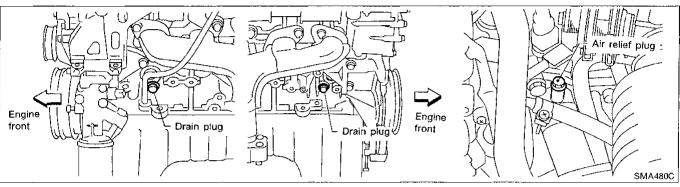


Changing Engine Coolant (Cont'd)

- 2. Open radiator drain cock at the bottom of radiator, and remove radiator filler cap.
- 3. Remove reservoir tank, drain coolant, then clean reservoir tank.

Install it temporarily.

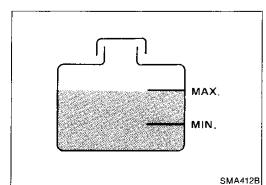
Be careful not to allow coolant to contact drive belts.



- 4. Remove cylinder block drain plugs and air relief plug.
- 5. Close radiator drain cock and tighten cylinder block drain plugs securely.
- Fill radiator with water until coolant spills from air relief hole during refill, then reinstall air relief plug. Then fill radiator and reservoir tank with water. Air relief plug:
 - [O]: 10 N·m (1.0 kg-m, 7 ft-lb)
- 7. Reinstall radiator filler cap.
- 8. Start engine.
- 9. Warm up engine until cooling fan operates, then race engine 2 or 3 times under no-load.

Make sure that air conditioner switch is "OFF".

- 10. Stop engine and wait until it cools down.
- 11. Repeat step 2 through step 10 until clear water begins to drain from radiator.
- 12. Drain water.
- Apply sealant to drain plug thread.
 34 44 N·m (3.5 4.5 kg-m, 25 33 ft-lb)
- 13. Reinstall reservoir tank.



14. Fill radiator and reservoir tank with coolant following step 6 through step 10.

Follow instructions attached to anti-freeze container for mixing ratio of anti-freeze to water.

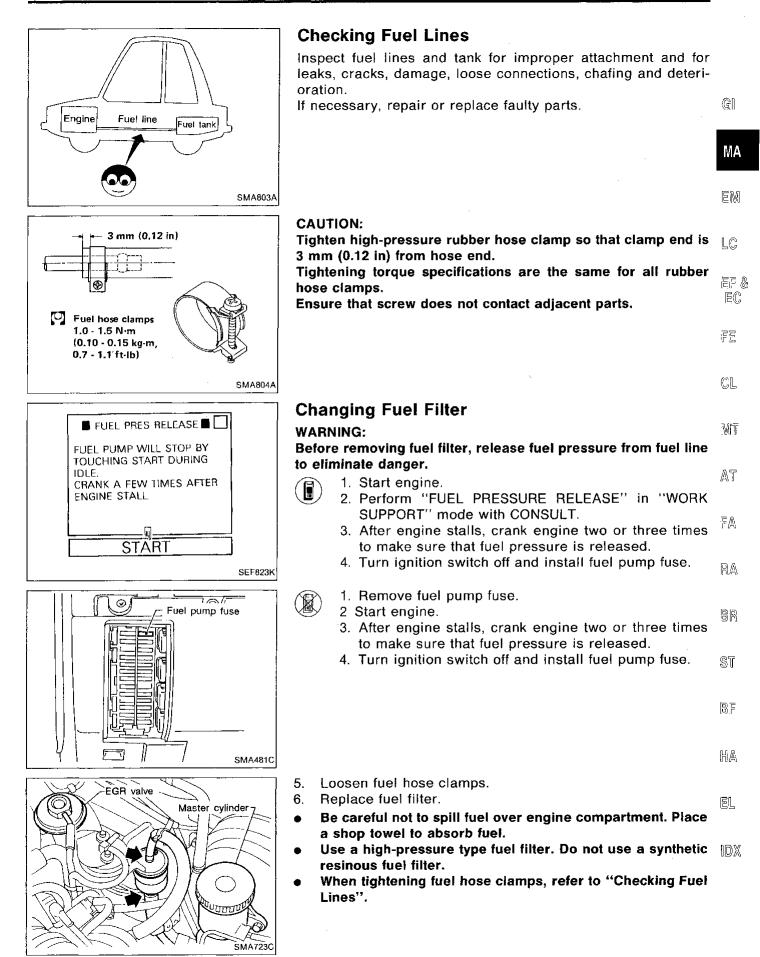
Coolant capacity (With reservoir tank):

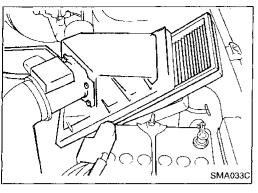
10.6 ℓ (11-1/4 US qt, 9-3/8 Imp qt)

[Reservoir tank capacity at ''MAX'' level is 0.7 ℓ (3/4 US qt, 5/8 Imp qt).]

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

15. If necessary, add coolant.

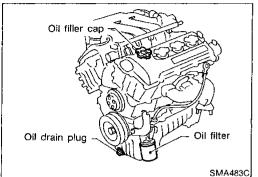






Viscous paper type

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



Changing Engine Oil WARNING:

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

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

Oil grade: API SG

Viscosity: See "RECOMMENDED FLUIDS AND LUBRICANTS" in MA section.

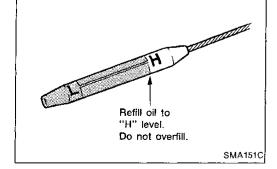
Refill oil capacity (Approximate):

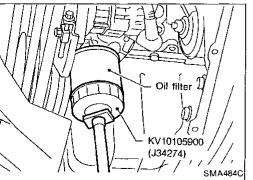
Unit: liter (US qt, Imp qt)

| With oil filter change | 3.8 (4, 3-3/8) |
|---------------------------|----------------|
| Without oil filter change | 3.4 (3-5/8, 3) |

CAUTION:

- Be sure to clean drain plug and install with new washer. Drain plug:
 - [¹]: 29 39 N·m (3.0 4.0 kg-m, 22 29 ft-lb)
- The refill capacity changes depending on the oil temperature and drain time; use these values as a reference and be certain to check with the dipstick when changing the oil.
- 4. Check oil level.
- 5. Start engine and check area around drain plug and oil filter for oil leakage.
- 6. Run engine for a few minutes, then turn it off. After several minutes, check oil level.





Changing Oil Filter

1. Remove oil filter with Tool or suitable tool.

WARNING:

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

Changing Oil Filter (Cont'd)

VE30DE

GI

MA

EM

LC

EF & ΞĈ

FE

CL

MT

AT

FA

RA

BR

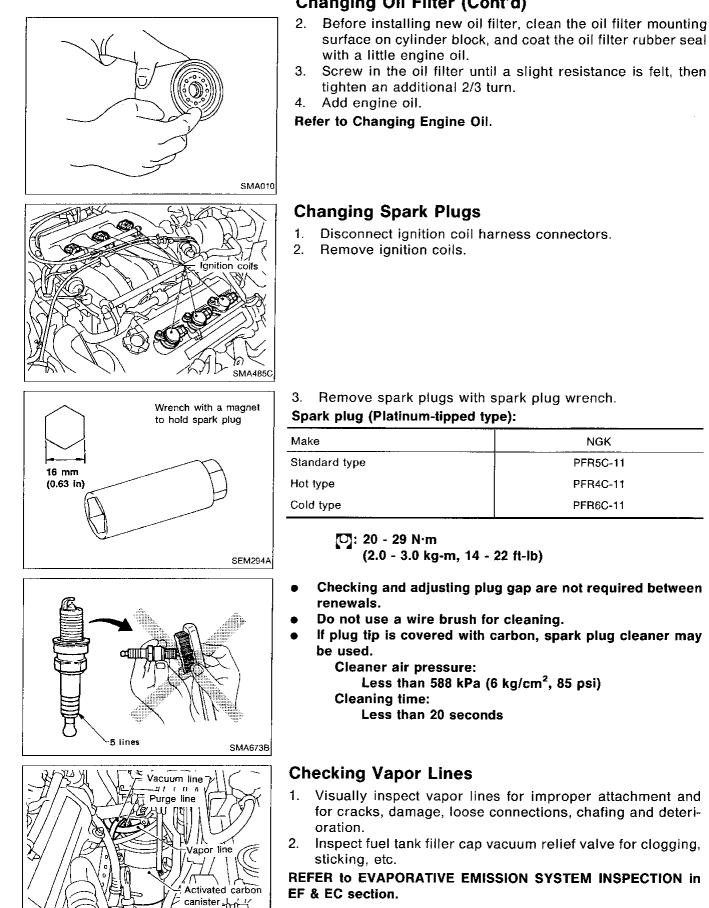
ST

공문

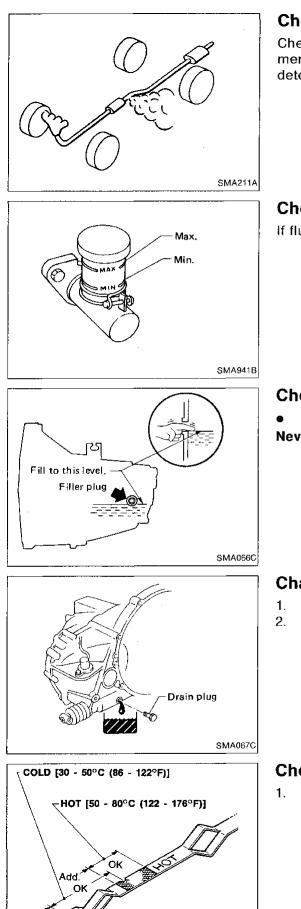
HA

EL

10X



SMA486C



Add.

Checking Exhaust System

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

Checking Clutch Fluid Level and Leaks

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

Checking M/T Oil

- Check for oil leakage and oil level. Never start engine while checking oil level.
 - C: Filler plug 25 34 N·m (2.5 3.5 kg-m, 18 25 ft-lb)

Changing M/T Oil

- 1. Drain oil from drain plug and refill with new gear oil.
- 2. Check oil level.
 - Oil capacity: 4.2 - 4.5 ℓ (8-7/8 - 9-1/2 US pt, 7-3/8 - 7-7/8 Imp pt) - RS5F50V 4.4 - 4.7 ℓ (9-1/4 - 10 US pt, 7-3/4 - 8-1/4 Imp pt) - RS5F50A
 - [℃]: Drain plug 20 29 N·m (2.0 3.0 kg-m, 14 22 ft-lb)

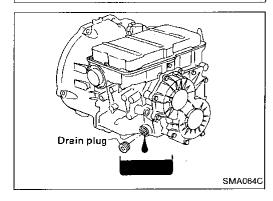
Checking A/T Fluid

. Check for fluid leakage and fluid level. Fluid level should be checked using "HOT" range on dipstick at fluid temperatures of 50 to 80°C (122 to 176°F) after vehicle has been driven approximately 5 minutes in urban areas after engine is warmed up. But it can be checked at fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on dipstick for reference after engine is warmed up and before driving. However, fluid level must be rechecked using "HOT" range.

SAT481-A

CHASSIS AND BODY MAINTENANCE

Check fluid for contamination. SMA853B



Checking A/T Fluid (Cont'd)

- 1) Park vehicle on level surface and set parking brake.
- Start engine and then move selector lever through each 2) gear range, ending in "P".
- Check fluid level with engine idling. 3)
- Remove dipstick and wipe it clean with lint-free paper. 4)
- 5) Reinsert dipstick into charging pipe as far as it will go.
- Remove dipstick and note reading. If level is at low side of 6) either range, add fluid to the charging pipe.

Do not overfill.

1. 2. 3.

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

Refer to section AT for checking operation of A/T.

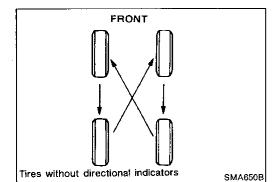
Changing A/T Fluid

| | ^ |
|---|-----------------|
| Warm up A/T fluid. | EF & |
| Stop engine. | EC |
| Drain A/T fluid from drain plug and refill with | new A/T fluid. |
| Always refill same volume with drained fluid. | FE |
| Oil grade: | |
| Genuine Nissan ATF or equivalent typ | e |
| DEXRON [™] II-E | GL |
| Oil capacity (With torque converter): | |
| VG30 engine models | |
| 7.4ℓ (7-7/8 US qt, 6-1/2 lmp qt) | MT |
| VE30 engine models | |
| 9.6ℓ (10-1/8 US qt, 8-1/2 Imp qt) | |
| Drain plug : | At |
| [◯]: 29 - 39 N·m (3.0 - 4.0 kg-m, 22 - 29 | ft-lb) |
| Run engine at idle speed for five minutes. | |
| Check fluid level and condition. Refer to "C | Checking A/T FA |
| Eluid" If fluid is still dirty repeat step 2 thro | uah 5 |

- 4.
- 5. . If fluid is still dirty, repeat step 2. through 5.

Balancing Wheels

| Adjust wheel balance using road wheel center. | BR |
|---|----|
| Wheel balance (Maximum allowable unbalance): | |
| Refer to SDS. | ST |



Tire Rotation

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

GI

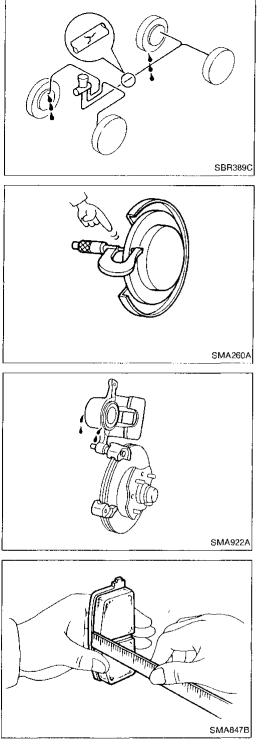
MA

LC

RA

RF

HA





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

Checking Brake Lines and Cables

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

Checking Disc Brake

ROTOR

Check condition and thickness.

| | | Unit: mm (in) |
|--------------------|--------------|---------------|
| | CL25VB | CL9HA |
| Standard thickness | 22 (0.87) | 9 (0.35) |
| Minimum thickness | 20.0 (0.787) | 8.0 (0.315) |

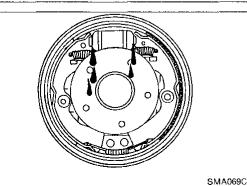
CALIPER

Check operation and for leakage.

PAD

Check for wear or damage.

| | | Unit: mm (in) |
|--------------------|-------------|---------------|
| | CL25VB | CL9HA |
| Standard thickness | 11 (0.43) | 10 (0.39) |
| Minimum thickness | 2.0 (0.079) | 2.0 (0.079) |



Checking Drum Brake WHEEL CYLINDER

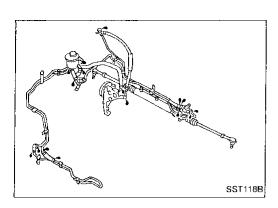
Check operation and for leakage.



CHASSIS AND BODY MAINTENANCE

| | Checking Drum Brake (Cont'd) | |
|---|---|------------|
| Check condition of inner surface of drum. | DRUM Check condition of inner surface. Standard inner diameter: | |
| | 228.6 mm (9 in) Maximum diameter: 230.0 mm (9.06 in) | G |
| 000 | | MA |
| SMA070C | | EM |
| 50 | LINING Check for wear or damage. Standard thickness: | LĈ |
| | 4.5 mm <u>(</u> 0.177 in) Minimum thickness: 1.5 mm (0.059 in) | ef & EC |
| | Refer to section BR for shoe replacement. | |
| SMA849B | | CL |
| Plug | TEMPORARY METHOD FOR CHECKING LINING WEAR Remove inspection hole plug and check for lining wear. | ™ T |
| | | AT |
| | | FA |
| SBR461A | | RA |
| | Checking Steering Gear and Linkage STEERING GEAR | BR |
| Check grease leakage. | Check gear housing and boots for looseness, damage or grease leakage. Check connection with steering column for looseness. | \$T |
| Check tightening torque. | STEERING LINKAGE | BF |
| C : Refer to ST section. SMA654C | Check ball joint, dust cover and other component parts for looseness, wear, damage or grease leakage. | HA |
| | Checking Power Steering Fluid and Lines | EL |
| OK 50 - 80°C 50 - 80°C HOT HOT COLD 0 - 30°C (32 - 86°F) (32 - 86°F) | Checking fluid level. Fluid level should be checked using "HOT" range on dipstick at fluid temperatures of 50 to 80°C (122 to 176°F) or using "COLD" range on dipstick at fluid temperatures of 0 to 30°C (32 to 86°F). | с, DX |
| ě tř | CAUTION: | |
| SMA280BA | Do not overfill. Recommended fluid is Automatic Transmission Fluid type "DEXRONTMII" or equivalent. | |

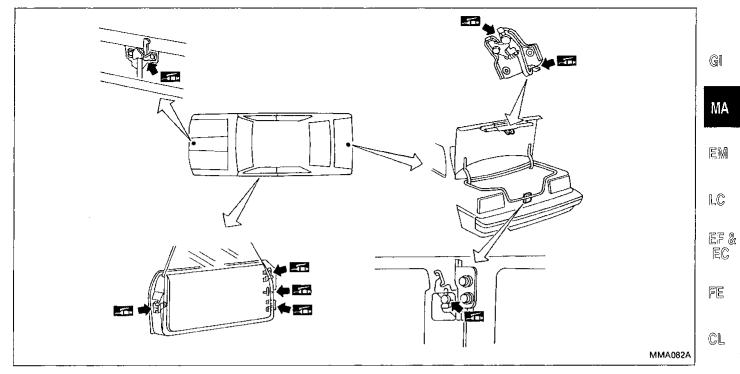
CHASSIS AND BODY MAINTENANCE



Checking Power Steering Fluid and Lines (Cont'd)

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

Lubricating Locks, Hinges and Hood Latches



CAUTION:

assembly.

assembly.

Anchor bolt

Checking Seat Belts, Buckles, Retractors, **Anchors and Adjusters**

AT 1. All seat belt assemblies, including Check anchors for loose mounting. retractors and attaching hardwares such as guide rall set, etc., should Check belts for damage. be inspected after any collision. FA Check function of Nissan recommends that all seat buckles and tongues belt assemblies in use during a when buckled and collision be replaced unless the released. RA collision was minor and the belts show no damage and continue to operate properly. Seat belt Check retractor assemblies not in use during a for smooth BR collision should also be inspected operation. and replaced if either damage or improper operation is noted. 2. If the condition of any component ST of seat belt assembly is questionable, do not have it Check buckle for repaired, but replaced as seat belt smooth sliding operation. BF 3. If webbing is cut, frayed, or Shoulder anchor damaged, replace belt assembly. Rear seat beit Front seat belt type 1 4. Do not spill drinks, oil, etc. on inner lap belt buckle. Never oll KA tongue and buckle. 5. Use a NISSAN genuine seat belt Retractor EL 🛄 43 - 55 N·m Retractor (4.4 - 5.6 kg-m, 32 - 41 ft-lb) ÐX. For automatic seat belt details, refer to BF section. Front seat belt type 2 SMA692B

MA-23

MĨ

Engine Maintenance (VG30E)

INSPECTION AND ADJUSTMENT

Drive belt deflection

| | | | Unit: mm (in) |
|-------------------------------|----------------------|-------------------------------------|---------------------------|
| · · · | Used belt deflection | | |
| | Limit | Deflection after adjust- ment | Deflection of new belt |
| Alternator | 12 (0.47) | 7 - 9 (0.28 - 0.35) | 6 - 8 (0.24 - 0.31) |
| Air conditioner compressor | 10 (0.39) | 5 - 7 (0.20 - 0.28) | 4 - 6 (0.16 - 0.24) |
| Power steering oil pump | 16 (0.63) | 10 - 12 (0.39 - 0.47) | 8 - 10 (0.31 - 0.39) |
| Applied pushing force | 98 N (10 kg, 22 lb) | | |

Spark plug

| Standard type | | BKR5ES-11 |
|--------------------|---------|---------------------------|
| Option for service | | BKR6ES-11 |
| Cold type | | BKR7ES-11 |
| Plug gap | mm (in) | 1.0 - 1.1 (0.039 - 0.043) |

Engine Maintenance (VE30DE) Spark plug

INSPECTION AND ADJUSTMENT

Drive belt deflection

| | | | Unit: mm (in |
|-------------------------------|--------------------------------|-------------------------------------|------------------------------|
| | Used belt | deflection | |
| | Limit | Deflection after adjust- ment | Deflection of new belt |
| Alternator | 11.5 - 12.5 (0.453 - 0.492) | 7.5 - 8.5 (0.295 - 0.335) | 6.5 - 7.5 (0.256 - 0.295) |
| Air conditioner compressor | 8.5 - 9.5 (0.335 - 0.374) | 5.5 - 6.5 (0.217- 0.256) | 5 - 6 (0.20 - 0.24) |
| Power steer- ing oil pump | 11.5 - 12.5 (0.453 - 0.492) | 7.5 - 8.5 (0.295 - 0.335) | 6.5 - 7.5 (0.256 - 0.295) |
| Applied push- ing force | Ę | 98 N (10 kg, 22 lb |) |

| | | Platinum tipped type | |
|----------|---------|--------------------------|--|
| Make | | NGK | |
| Туре | | | |
| Standard | | PFR5C-11 | |
| Hot | | PFR4C-11 | |
| Cold | | PFR6C-11 | |
| Plug gap | mm (in) | 1.0 - 1.1 (0.039 - 0.043 | |

INSPECTION AND ADJUSTMENT

Wheel balance

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

Chassis and Body Maintenance

Brake _

| Disc brake | mm (in) | | |
|--------------------|---------|--------------|--------------|
| Pad | | | GI |
| Standard thickness | | | 610 |
| CL25VB | | 11 (0.43) | |
| CL9HA | | 10 (0.39) | MA |
| Minimum thickness | | | |
| CL25VB | | 2.0 (0.079) | EM |
| CL9HA | | 2.0 (0.079) | |
| Rotor | | | LC |
| Standard thickness | | | |
| CL25VB | | 22 (0.87) | <u>E</u> F & |
| CL9HA | | 9 (0.35) | EC |
| Minimum thickness | | | |
| CL25VB | | 20.0 (0.787) | FS |
| CL9HA | | 8.0 (0.315) | |
| Drum brake | mm (in) | | CL |
| Lining | | | |
| Standard thickness | | 4.5 (0.177) | 0.052 |
| Minimum thickness | | 1.5 (0.059) | — MT |
| Drum | | | |
| Standard diameter | | 228.6 (9) | AT |
| Maximum diameter | | 230.0 (9.06) | |
| | | | |

FA

RA

BR

ST

BF

HA

EL

 \mathbb{D}