MAINTENANCE

SECTION MA

Checking M/T Oil22

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PRECAUTIONS

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The SRS system composition which is available to NISSAN MODEL R50 is as follows:

- For a frontal collision
 - The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.
- For a side collision The Supplemental Restraint System consists of side air bag module (located in the outer side of front seat), satellite sensor, diagnosis sensor unit (one of components of air bags for a frontal collision), wiring harness, warning lamp (one of components of air bags for a frontal collision).

Information necessary to service the system safely is included in the RS section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the RS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow harness connector (and by yellow harness protector or yellow insulation tape before the harness connectors).



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Special Service Tool NAMA0002 The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. Tool number (Kent-Moore No.) Description Tool name KV10115801 Removing oil filter (J38956) a: 64.3 mm (2.531 in) Oil filter cap wrench NT375 **Commercial Service Tool** Tool name Description (Kent-Moore No.) Belt tension gauge Checking drive belt tension (BT3373-F)

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 checks and inspections themselves or they can have their NISSAN dealers do them.

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OUTSIDE THE VEHICLE

The maintenance items listed here should be performed from time to time, unless otherwise specified.

| Item | | Reference page | EN |
|-----------------------------|---|---|------------|
| Tires | Check the pressure with a gauge, including the spare, at least once a month and always prior to a long distance trips. Adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear. | _ | LC |
| Wheel nuts | When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary. | _ | - E(|
| Tire rotation | Tires should be rotated every 12,000 km (7,500 miles). | MA-26 | - |
| Wheel alignment and balance | If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed. | MA-26, SU-7, "Front Wheel Alignment" | FE GL |
| Windshield wiper blades | Check for cracks or wear if they do not wipe properly. | _ | - האת |
| Doors and engine hood | Check that all doors and the engine hood operate smoothly as well as the trunk lid and back hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently. | MA-30 | - M' AT |

INSIDE THE VEHICLE

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

| T. | | 5 (|
|----------------------------------|--|--|
| Item | | Reference page |
| Lamps | Make sure that the headlamps, stop lamps, tail lamps, turn signal lamps, and other lamps are all operating properly and installed securely. Also check headlamp aim. | _ |
| Warning lamps and buzzers/chimes | Make sure that all warning lamps and buzzers/chimes are operating properly. | _ |
| Windshield wiper and washer | Check that the wipers and washer operate properly and that the wipers do not streak. | _ |
| Windshield defroster | Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioning. | _ |
| Steering wheel | Check that it has the specified play. Be sure to check for changes in the steering condition, such as excessive play, hard steering or strange noises. Free play: Less than 35 mm (1.38 in) | _ |
| Seats | Check seat position controls such as seat adjusters, seatback recliner, etc. to make sure they operate smoothly and that all latches lock securely in every position. Check that the head restrains move up and down smoothly and that the locks (if equipped) hold securely in all latched positions. Check that the latches lock securely for folding-down rear seatbacks. | _ |
| Seat belts | Check that all parts of the seat belt system (e.g. buckles, anchors, adjusters and retractors) operate properly and smoothly and are installed securely. Check the belt webbing for cuts, fraying, wear or damage. | MA-31 RS-7, "Seat Belt Inspec- tion" |
| Clutch pedal | Make sure the pedal operates smoothly and check that it has the proper free play. | CL-6, "Adjusting Clutch Pedal" |
| Brakes | Check that the brake does not pull the vehicle to one side when applied. | _ |

GENERAL MAINTENANCE

| Item | tem | | | | | | | |
|---|--|---|--|--|--|--|--|--|
| Brake pedal and booster | Check the pedal for smooth operation and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to keep floor mats away from the pedal. | Refer to BR-14, "Brake Pedal and Bracket" and "Brake Booster" | | | | | | |
| Parking brake | Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied. | Refer to BR-34, "Parking Brake Control" | | | | | | |
| 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 the vehicle is held securely with the selector lever in the "P" position without applying any brakes. | _ | | | | | | |

UNDER THE HOOD AND VEHICLE

The maintenance items listed here should be checked periodically (e.g. each time you check the engine oil or refuel).

| Item | | Reference page | | | | | |
|---|--|----------------|--|--|--|--|--|
| Windshield washer fluid | Check that there is adequate fluid in the tank. | _ | | | | | |
| Engine coolant level | Check the coolant level when the engine is cold. | MA-16 | | | | | |
| Radiator and hoses | Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, deterioration or loose connections. | | | | | | |
| Brake and clutch fluid levels | Make sure that the brake and clutch fluid levels are between the "MAX" and "MIN" lines on the reservoir. | MA-22, 27 | | | | | |
| Battery | Check the fluid level in each cell. It should be between the "MAX" and "MIN" lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level. | _ | | | | | |
| Engine drive belts | Make sure that no belt is frayed, worn, cracked or oily. | MA-14 | | | | | |
| Engine oil level | Check the level on the dipstick after parking the vehicle on a level spot and turning off the engine. | MA-18 | | | | | |
| Power steering fluid level and lines | Check the level on the dipstick with the engine off. Check the lines for improper attachment, leaks, cracks, etc. | MA-29 | | | | | |
| Automatic transmis- sion fluid level | Check the level on the dipstick after putting the selector lever in "P" with the engine idling. | MA-23 | | | | | |
| Exhaust system | Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately locate the trouble and correct it. | MA-22 | | | | | |
| Underbody | The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, being careful to clean those areas where mud and dirt can easily accumulate. | _ | | | | | |
| Fluid leaks | Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or gasoline fumes are evident, check for the cause and correct it immediately. | _ | | | | | |

PERIODIC MAINTENANCE

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. | Emission Control System Maintenance | MA-8 | | |
|-------------|--|--|-------|------|--|
| Scriedule i | Operating in not weather in stop-and-go rush nour 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. | Chassis and Body Maintenance | MA-9 | MA-9 | |
| Sahadula 2 | Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits. | Emission Control System Maintenance | MA-10 | _ | |
| Schedule 2 | | Chassis and Body Maintenance | MA-11 | _ | |

Maintenance for off-road driving (4x4 only)

Whenever you drive off-road through sand, mud or water, more frequent maintenance may be required of the following items:

- ▲ Brake pads and discs
- ▲ Brake lining and drums
- ▲ Brake lines and hoses
- ▲ Wheel bearing grease
- ▲ Differential, transmission and transfer oil
- ▲ Steering linkage
- ▲ Propeller shaft and drive shafts
- ▲ Air cleaner filter
- ▲ Clutch housing (Check water entry. Refer to MA-22.)







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| MAINTENANCE OPERATION | | MAINTENANCE INTERVAL | | | | | | | | | | | | | | | Reference Section | | | |
|--|-----------------------------------|----------------------|--|---|------------------|--------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------------------|
| Perform at number of miles, kilometers or months, whichever comes first. | or months, whichever (km x 1,000) | | hever (km x 1,000) | | 7.5 (12) 6 | 11.25 (18) 9 | 15 (24) 12 | 18.75 (30) 15 | 22.5 (36) 18 | 26.25 (42) 21 | 30 (48) 24 | 33.75 (54) 27 | 37.5 (60) 30 | 41.25 (66) 33 | 45 (72) 36 | 48.75 (78) 39 | 52.5 (84) 42 | 56.25 (90) 45 | 60 (96) 48 | - Page or - Content Title |
| Drive belts | | | | | | | | | * | | | | | | | | * | MA-14 | | |
| Air cleaner filter | NOTE (1) | | | | | | | | [R] | | | | | | | | [R] | MA-18 | | |
| EVAP vapor lines | | | | | | | | | * | | | | | | | | * | MA-21 | | |
| Fuel lines | | | | | | | | | * | | | | | | | | * | MA-17 | | |
| Fuel filter* | NOTE (2) | | | | | | | | | | | | | | | | | MA-17 | | |
| Engine coolant | NOTE (3) | | | | | | | | | | | | | | | | R* | MA-15 | | |
| Engine oil | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | MA-18 | | |
| Engine oil filter (Use part No. 15208-31U00 or equivalent.) | | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | R | MA-19 | | |
| Spark plugs (PLATINUM- TIPPED type) | | | Replace every 105,000 miles (169,000 km) | | | | | | | | | | | | | MA-20 | | | | |
| Intake & exhaust valve clear- ance* | NOTE (4) | | | | | | | | | | | | | | | | | EM-53 | | |

NOTE:

- (1) If operating mainly in dusty conditions, more frequent maintenance may be required.
- (2) When the filter becomes clogged, the vehicle speed cannot be increased as the driver wishes. In such an event, replace the filter.
- (3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (4) If valve noise increases, inspect valve clearance.
- * 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.

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PERIODIC MAINTENANCE

| | MAINTENANCE OPERATION | N | | | | | | | MAINT | ENAN | CE INT | ERVA | AL | | | | | | Reference Section |
|------|---|---|------------------|------------------|--------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------|--------------------|---------------------|------------------|---------------------------------|
| ı | Perform at number of miles, kilometers or months, which ever comes first. | Miles x 1,000 (km x 1,000) Months | 3.75 (6) 3 | 7.5 (12) 6 | 11.25 (18) 9 | 15 (24) 12 | 18.75 (30) 15 | 22.5 (36) 18 | 26.25 (42) 21 | 30 (48) 24 | 33.75 (54) 27 | 37.5 (60) 30 | 41.25 (66) 33 | 45 (72) 36 | 48.75 (78) 39 | 52.5 (84) 42 | 56.25 (90) 45 | 60 (96) 48 | - Page or - Content Title |
| | Brake lines & cables | | | | | I | | | | I | | | | ı | | | | ı | MA-27 |
| | Brake pads, rotors, drums & linings | | | I | | I | | ı | | I | | I | | ı | | I | | ı | MA-27, 28 |
| | Automatic transmission, (all- mode 4WD) transfer fluid, manual transmission & diffe tial gear oil (exc. LSD) | NOTE (1) | | | | I | | | | I | | | | ı | | | | ı | MA-22, 23, 24, 25 |
| | LSD gear oil | NOTE (1) | | | | I | | | | R | | | | ı | | | | R | MA-26 |
| 1 | Steering gear, linkage & trar fer gear, axle & suspension parts | S- | | ı | | I | | ı | | ı | | ı | | 1 | | ı | | ı | MA-28 MA-29 |
| | Tire rotation NOTE (2) | | | | | | | | | | | | | | | | | MA-5 | |
| | Drive shaft boots & propelle shaft (| | | ı | | ı | | ı | | ı | | ı | | ı | | ı | | ı | MA-30 MA-25 |
| | Propeller shaft (4x4) | NOTE (3) | | L | | L | | L | | L | | L | | L | | L | | L | MA-25 |
| | 'Front wheel bearing grease" 4x | 2 | | | | | | | | I | | | | | | | | ı | MA-30 |
| | Front wheel bearing grease | х4 | | | | ı | | | | R | | | | ı | | | | R | MA-30 |
| | Exhaust system | | | I | | I | | I | | I | | ı | | ı | | ı | | ı | MA-22 |
| | ASCD vacuum hoses | | | | | I | | | | I | | | | ı | | | | ı | MA-30 EL-264 |

NOTE:

(1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil (exc. LSD) at every 30,000 miles (48,000 km) or 24 months, and change LSD gear oil every 15,000 miles (24,000 km) or 12 months.

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- (2) Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.
- (3) The propeller shaft should be re-greased after being immersed in water.

| MAINTENANCE OPERATION | | | | | Reference Section | | | | | |
|--|---|------------------|------------------|--------------------|-------------------|--------------------|------------------|--------------------|------------------|---------------------------------|
| Perform at number of miles, kilometers or months, whichever comes first. | Miles x 1,000 (km x 1,000) Months | 7.5 (12) 6 | 15 (24) 12 | 22.5 (36) 18 | 30 (48) 24 | 37.5 (60) 30 | 45 (72) 36 | 52.5 (84) 42 | 60 (96) 48 | - Page or - Content Title |
| Drive belts | | | | | I * | | | | l* | MA-14 |
| Air cleaner filter | | | | | [R] | | | | [R] | MA-18 |
| EVAP vapor lines | | | | | I * | | | | l* | MA-21 |
| Fuel lines | | | | | I * | | | | l* | MA-17 |
| Fuel filter* | NOTE (1) | | | | | | | | | MA-17 |
| Engine coolant | NOTE (2) | | | | | | | | R* | MA-15 |
| Engine oil | | R | R | R | R | R | R | R | R | MA-18 |
| Engine oil filter (Use part No. 15208-31U00 or equivalent.) | | R | R | R | R | R | R | R | R | MA-19 |
| Spark plugs (PLATINUM-TIPPED type) | | | Rep | | MA-20 | | | | | |
| Intake & exhaust valve clearance* | NOTE (3) | | | | | | | | | EM-53 |

NOTE:

- (1) When the filter becomes clogged, the vehicle speed cannot be increased as the driver wishes. In such an event, replace the filter.
- (2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- (3) If valve noise increases, inspect valve clearance.
- ★ 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.

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| MAINTENANCE OPERATION | | | | | Reference Section | | | | | |
|---|---|------------------|------------------|--------------------|-------------------|--------------------|------------------|--------------------|------------------|---------------------------------|
| Perform at number of miles, kilometers or months, whichever comes first. | Miles x 1,000 (km x 1,000) Months | 7.5 (12) 6 | 15 (24) 12 | 22.5 (36) 18 | 30 (48) 24 | 37.5 (60) 30 | 45 (72) 36 | 52.5 (84) 42 | 60 (96) 48 | - Page or - Content Title |
| Brake lines & cables | | | I | | I | | 1 | | I | MA-27 |
| Brake pads, rotors, drums & linings | | | ı | | ı | | ı | | I | MA-27, 28 |
| Automatic transmission, (all-mode 4WD) transfer fluid, manual transmission & differential gear oil (exc. LSD) | | | I | | I | | I | | I | MA-22, 23, 24, 25 |
| LSD gear oil | | | I | | R | | I | | R | MA-26 |
| Steering gear, linkage & transfer gear, axle & suspension parts | | | | | I | | | | I | MA-28 MA-29 |
| Tire rotation | NOTE (1) | | • | | | • | • | | | MA-5 |
| Drive shaft boots & propeller shaft | | | I | | I | | I | | I | MA-30 MA-25 |
| Propeller shaft (4x4) | NOTE (2) | | L | | L | | L | | L | MA-25 |
| Front wheel bearing grease (4x2) | | | | | I | | | | I | MA-30 |
| Front wheel bearing grease (4x4) | | | I | | R | | I | | R | MA-30 |
| Exhaust system | | | | | I | | | | I | MA-22 |
| | | 1 | 1 | | 1 | 1 | 1 | 1 | | |

MAINTENANCE INTERVAL

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

NOTE:

ASCD vacuum hoses

MAINTENANCE OPERATION

- (1) Refer to "Tire rotation" under the "GENERAL MAINTENANCE" heading earlier in this section.
- (2) The propeller shaft should be re-greased after being immersed in water.

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MA-30

EL-264

RECOMMENDED FLUIDS AND LUBRICANTS

Fluids and Lubricants

| | | | Fiuld | is and Lu | Dificalits | NAMA0005S01 |
|-------------------------------|---------------------------------|--------------------|------------------------------|-----------|---|---|
| | | | Capacity (Approximate) | | | |
| | | | US measure Imp measure Liter | | Liter | Recommended Fluids/Lubricants |
| | Drain and | With oil filter | 5-1/4 qt | 4-3/8 qt | 5.0 | API Certification Mark*1 |
| Engine oil | Drain and refill | Without oil filter | 5-1/8 qt | 4-1/4 qt | 4.8 | API grade SG/SH, Energy Conserving I & II or API grade SJ, Energy |
| | Dry engine (Engine overhaul) | | 7-1/4 qt | 6 qt | 6.8 | Conserving*1 ILSAC grade GF-I & GF-II*1 |
| Cooling syste | m (With reserv | oir) | 9-3/4 qt | 8-1/8 qt | 9.2 | Genuine Nissan anti-freeze coolant or equivalent |
| Manual transr | nission gear o | il | 10-3/4 pt | 9 pt | 5.1 | API GL-4, Viscosity SAE 75W-85 only |
| Transfer fluid | Part time 4WD model | | 2-3/8 qt | 2 qt | 2.2 | Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid*2 or API GL-4*1 |
| | All-mode 4WD model | | 3-1/8 qt | 2-5/8 qt | 3.0 | Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid*2 |
| Differential carrier gear oil | Front (4WD) | | 3-7/8 pt | 3-1/4 pt | 1.85 | Standard differential gear: API GL-5*1 Limited-slip differential (LSD) gear: Use only LSD gear oil API GL-5 and SAE 80W-90*4 approved for Nissan LSD*5. |
| | Rear | | 5-7/8 pt | 4-7/8 pt | 2.8 | |
| Automatic | 2WD | | - 9 qt | 7-1/2 qt | 8.5 | Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid*2 |
| transmission fluid | 4WD | | | | | |
| Power steering fluid | | _ | _ | _ | Genuine NISSAN PSF II or equivalent*6 | |
| Brake and clutch fluid | | _ | _ | _ | Genuine Nissan Brake Fluid*3 or equivalent DOT 3 (U.S. FMVSS No. 116) | |
| Propeller shaft grease | | _ | _ | _ | NLGI No. 2 (Lithium soap base) | |
| Multi-purpose grease | | | | _ | NLGI No. 2 (Lithium soap base) | |

^{*1:} For further details, see "SAE Viscosity Number".

^{*2:} DEXRONTM III/MERCONTM or equivalent may also be used. Outside the continental United States and Alaska contact a NISSAN dealership for more information regarding suitable fluids, including recommended brand(s) of DEXRONTM III/MERCONTM Automatic Transmission Fluid.

^{*3:} Available in mainland U.S.A. through your NISSAN dealer.

^{*4:} SAE 90 is acceptable in ambient temperatures above -18°C (0°F).

^{*5:} Contact a NISSAN dealer for a list of approved oils.

^{*6:} Genuine NISSAN PSF, Canada NISSAN Automatic Transmission Fluid, DEXRONTM III/MERCONTM or equivalent ATF may also be used.

SAE Viscosity Number GASOLINE ENGINE OIL

temperature is above -18°C (0°F).

NAMA0005S02

NAMA0005S0201 SAE 5W-30 viscosity oil is preferred for all ambient temperatures.

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PD

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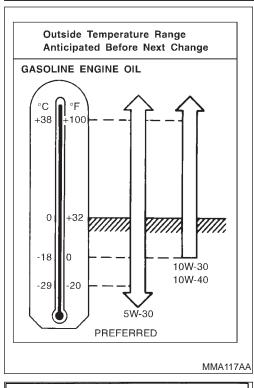
BT

The engine cooling system is filled at the factory with a high-quality,

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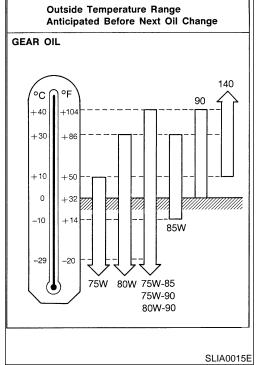
MA-13



GEAR OIL

75W-90 for transfer, and 80W-90 for differential are preferable.

SAE 10W-30, 10W-40 viscosity oil may be used if the ambient



| | side e down to | Anti-freeze | Demineralized water or |
|-----|-------------------|-------------|---------------------------|
| °C | °F | | distilled water |
| -35 | -30 | 50% | 50% |

SMA947CA

year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors. Therefore, additional cooling system additives are not necessary.

Anti-freeze Coolant Mixture Ratio

CAUTION:

When adding or replacing coolant, be sure to use only a Genuine Nissan anti-freeze coolant or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralized water/ distilled water. Other types of coolant solutions may damage your engine cooling system.

1. Inspect belt for cracks, fraying, wear and oil. If necessary, replace.

SMA091D

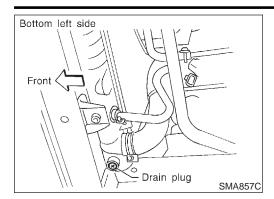
- 2. Inspect drive belt deflection or tension at a point on the belt midway between pulleys.
- Check belt tension using belt tension gauge (BT3373-F or equivalent).

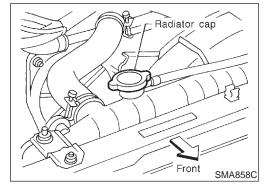
Inspect drive belt deflection or tension when engine is cold. Adjust if belt deflections exceed the limit or if belt tension is not within specifications.

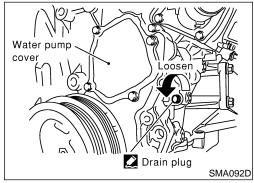
Belt deflection and tension

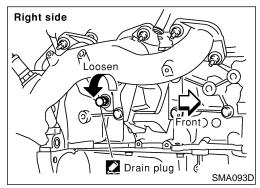
| | Deflection adjustr | nent | Unit: mm (in) | Tension adjustment *1 | | Unit: N (kg, lb) |
|---|--------------------|-------------------------|------------------------------|-----------------------|---------------------------------------|---------------------------------------|
| | Used belt | | Niana half | Used belt | | Name half |
| | Limit | After adjustment | New belt | Limit | After adjustment | New belt |
| Alternator Power steering oil pump Fan | 7 (0.28) | 4 - 5 (0.16 - 0.20) | 3.5 - 4.5 (0.138 - 0.177) | 294 (30, 66) | 730 - 818 (74.4 - 83.5, 164 - 184) | 838 - 926 (85.4 - 94.5, 188 - 208) |
| Air conditioner compressor | 12 (0.47) | 9 - 10 (0.35 - 0.39) | 8 - 9 (0.31 - 0.35) | 196 (20, 44) | 348 - 436 (35.5 - 44.5, 78 - 98) | 470 - 559 (47.9 - 57.0, 106 - 126) |
| Applied pushing force | | 98 N (10 kg, 22 lb) | | | _ | |

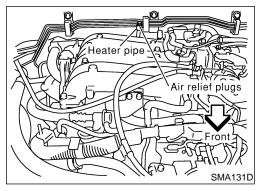
^{*1} If belt tension gauge cannot be installed at check points shown, check drive belt tension at a different location on the belt.











Changing Engine Coolant WARNING:

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

—DRAINING ENGINE COOLANT—

Set air conditioning system as follows to prevent coolant from

remaining in the system.

Turn ignition switch "ON" and set temperature controller to maximum hot position.

Wait 10 seconds before turning ignition switch "OFF". b.

- 2. Open radiator drain plug at the bottom of radiator.
- Remove radiator filler cap.
- Be careful not to allow coolant to contact drive belts.

MT

When draining all the coolant in the system, also perform the following two steps.

- 1) Open drain plugs on right side of cylinder block and water pump side, then open air relief plugs to drain coolant.
- Check drained coolant for contaminants such as rust, coorrosion or discoloration. If contaminated flush engine cooling system, "Refer to FLUSHING COOLING SYSTEM", MA-16.

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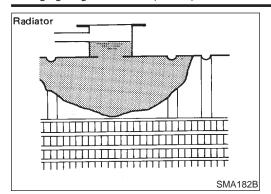
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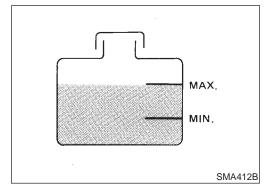
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-REFILLING ENGINE COOLANT-

NAMA0050S02

- 1. Install reservoir tank if removed, and radiator drain plug.
- Close and tighten cylinder block drain plugs securely if removed.
- Apply sealant to the thread of cylinder block drain plugs.
 - • 8 11 N⋅m (0.8 1.2 kg-m, 70 104 in-lb) Front side

 • 11 N⋅m (1.8 2.2 kg-m, 13 15 ft-lb) Right side

Use Genuine Thread Sealant or equyivalent. Refer to GI-51.

- 3. Fill radiator slowly with coolant.
 If air relief plug was removed, fill until coolant spills from the air relief plug, then install air relief plug.
- 4. Fill reservoir tank if removed with coolant up to the MAX level and install radiator cap.

Use Genuine Nissan antifreeze coolant or equivalent mixed with demineralized water/distilled water.

For coolant mixture ratio, refer to "RECOMMENDED FLUIDS AND LUBRICANTS". MA-13.

Coolant capacity (Without reservoir tank):

8.6 \(\(\text{(9-1/8 US qt, 7-5/8 Imp qt)} \)

Reservoir tank capacity (for MAX level):

0.6 ℓ (5/8 US qt, 1/2 Imp qt)

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

- 5. Warm up engine to normal operating temperature with radiator cap installed.
- 6. Run engine at 2,500 rpm for 10 seconds and return to idle speed.
- Repeat 2 or 3 times.

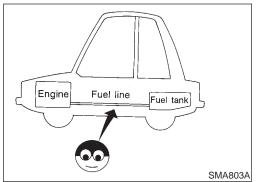
Watch coolant temperature gauge so as not to overheat the engine.

- 7. Stop engine and cool it down.
- Cool down using a fan to reduce the time.
- 8. Refill reservoir tank to Max line with coolant.
- 9. Repeat steps 5 through step 8 two or more times until coolant level no longer drops.
- 10. Check cooling system for leaks with engine running.
- 11. Warm up engine, and check for sound of coolant flow while running engine from idle up to 3,000 rpm with heater temperature control set at several positions between COOL and HOT.
- Sound may be noticeable at heater water cock.
- 12. If sound is heard, bleed air from cooling system by repeating steps 5 through 8 until coolant level no longer drops.
- Clean excess coolant from engine.

-FLUSHING COOLING SYSTEM-

NAMA0050S03

- 1. Open air relief plug.
- 2. Fill radiator with water until water spills from the air relief holes, then close air relief plugs. Fill radiator and reservoir tank with water and reinstall radiator cap.
- 3. Run engine and warm it up to normal operating temperature.
- 4. Rev engine two or three times under no-load.
- 5. Stop engine and wait until it cools down.
- 6. Drain water.
- Repeat steps 1 through 6 until clear water begins to drain from radiator.



Unit: mm (in)

MMA104A

SEF214Y

- 3 (0.12)

(P)

28 (1.10) Fuel hose clamps 1.0 - 1.5 N·m

> (0.10 - 0.15 kg-m, 8.7 - 13.0 in-lb)

> > **FUEL PRESSURE RELEASE**

FUEL PUMP WILL STOP BY

ENGINE STALL.

TOUCHING START IN IDLING. **CRANK A FEW TIMES AFTER**

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

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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.

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Changing Fuel Filter

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

(P) WITH CONSULT-II

Turn ignition switch "ON".

NAMA0052

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Perform "FUEL PRESSURE RELEASE" in "WORK SUP-PORT" mode with CONSULT-II.

Start engine.

After engine stalls, crank engine two or three times to release all fuel pressure.

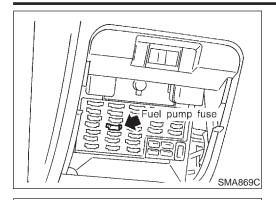
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Turn ignition switch "OFF".

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Fuel filter Rear axle SMA861C

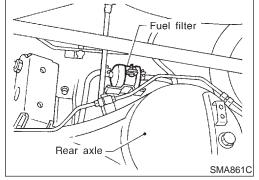
- Loosen fuel hose clamps. 6.
- Replace fuel filter.
- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.
- When tightening fuel hose clamps, refer to "Checking Fuel Lines".



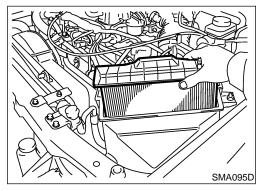
® WITHOUT CONSULT-II

NAMA0052S02

- 1. Remove fuel pump fuse located in fuse box.
- 2. Start engine.
- 3. After engine stalls, crank it two or three times to release all fuel pressure.
- 4. Turn ignition switch "OFF" and install fuel pump fuse.



- 5. Loosen fuel hose clamps.
- 6. Replace fuel filter.
- Be careful not to spill fuel over engine compartment. Place a shop towel to absorb fuel.
- Use a high-pressure type fuel filter. Do not use a synthetic resinous fuel filter.
- When tightening fuel hose clamps, refer to "Checking Fuel Lines"

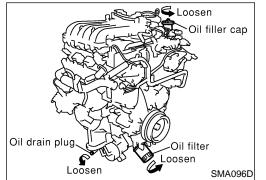


Changing Air Cleaner Filter VISCOUS PAPER TYPE

NAMA0053

NAMA A O DE 2001

The viscous paper type filter does not need cleaning between replacement intervals.



Changing Engine Oil

NAMA0054

WARNING:

- Be careful not to burn yourself, as the engine oil is hot.
- Prolonged and repeated contact with used engine oil may cause skin cancer; try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- Warm up engine, and check for oil leakage from engine components.
- 2. Stop engine and wait for more than 10 minutes.
- 3. Remove drain plug and oil filler cap.
- 4. Drain oil and refill with new engine oil.

Oil specification and viscosity

- API grade SG or SH, Energy Conserving I & II or API grade SJ, Energy Conserving
- API Certification Mark
- ILSAC grade GF-I & GF-II
- See "RECOMMENDED FLUIDS AND LUBRICANTS". MA-12.

Oil capacity (Approximately):

| | - | Unit: ℓ (US qt, Imp qt) |
|--------------------|---------------------------|-------------------------|
| Drain and refill | With oil filter change | 5.0 (5-1/4, 4-3/8) |
| Drain and reilii | Without oil filter change | 4.8 (5-1/8, 4-1/4) |
| Dry engine (engine | overhaul) | 6.8 (7-1/4, 6) |

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CAUTION:

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

(3.0 - 4.0 kg-m, 22 - 29 ft-lb)

The refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.









- Warm up engine and check area around drain plug and oil fil-
- Stop engine and wait for more than 10 minutes. 6.
- TF

Check oil level.

ter for oil leakage.

Changing Oil Filter





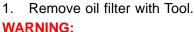












Be careful not to burn yourself, as the engine and engine oil are hot.

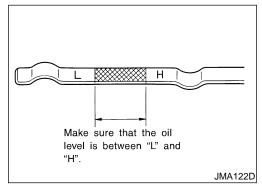
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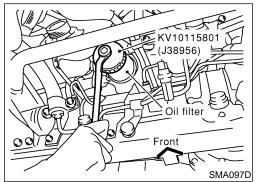
The filter is a full-flow cartridge type and is provided with a relief Refer to LC-8, "Oil Filter".

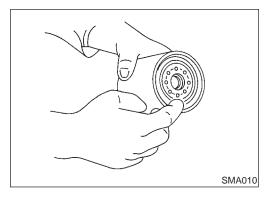
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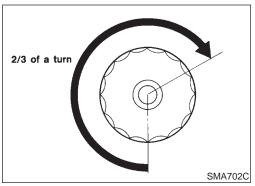
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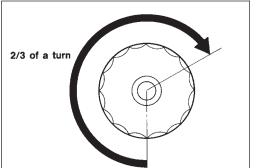
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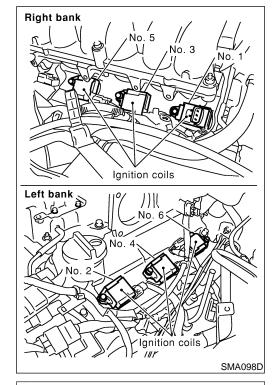


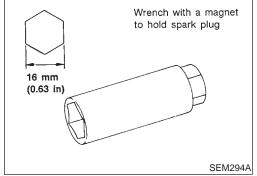












- Screw in the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
- Add engine oil.

Refer to MA-18, "Changing Engine Oil".

Clean excess oil from engine.

Changing Spark Plugs

NAMA0056

- Remove engine cover.
- 2. Remove throttle wires.
- Remove air duct with air cleaner assembly. 3.
- Disconnect harness connectors and harness brackets around ignition coil sides.
- Remove throttle body. (Only when removing the No. 4 cylinder spark plug)
- Disconnect ignition coil harness connectors.
- Loosen ignition coil fixing bolts and pull out coil from intake manifold connector.

Ignition coil:

(0.86 - 1.1 kg-m, 75 - 95 in-lb)

8. Check type and gap of new spark plug.

Spark plug type (Platinum-tipped type):

| | Symbol | Make |
|---------------|-----------|------|
| Standard type | PLFR5A-11 | NGK |
| Cold type | PLFR6A-11 | NGK |
| Hot type | PLFR4A-11 | NGK |

Gap (Nominal): 1.1 mm (0.043 in)

Spark plug:

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

Use standard type spark plug for normal condition.

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

- frequent engine starts
- low ambient temperatures

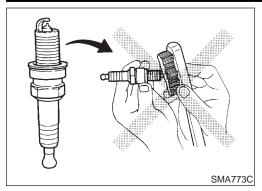
The cold type spark plug is suitable when spark knock may occur with the standard type spark plug such as:

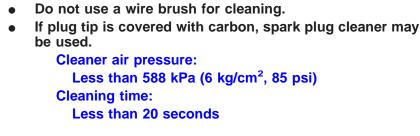
- extended highway driving
- frequent high engine revolution

ENGINE MAINTENANCE

change intervals.

Changing Spark Plugs (Cont'd)







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Checking and adjusting plug gap is not required between

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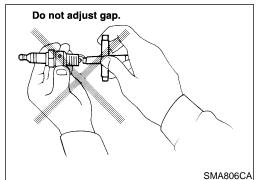
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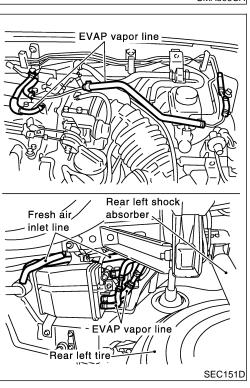
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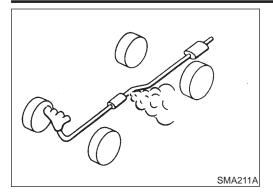


Checking EVAP Vapor Lines

Visually inspect EVAP vapor lines for improper attachment, cracks, damage, loose connections, chafing or deterioration.

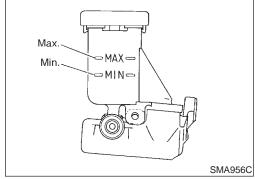
Inspect vacuum relief valve of fuel tank filler cap for clogging, sticking, etc.

Refer to EC-34, "EVAPORATIVE EMISSION SYSTEM".



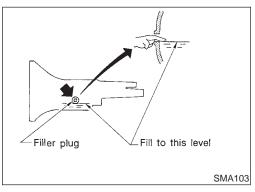
Checking Exhaust System

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



Checking Clutch Fluid Level and Leaks

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



Checking M/T Oil

NAMA0021

Check for oil leakage and oil level. Never start engine while checking oil level.

Filler plug:

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

Changing M/T Oil

NAMA0022

- Drain oil from drain plug and refill with new gear oil.
- Check oil level.

Oil grade and viscosity:

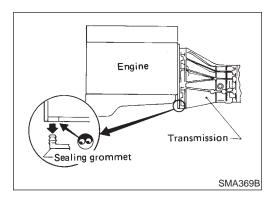
API GL-4. Refer to "Fluids and Lubricants". "REC-OMMENDED FLUIDS AND LUBRICANTS", MA-12.

Oil capacity:

5.1 ℓ (10-3/4 US pt, 9 Imp pt)

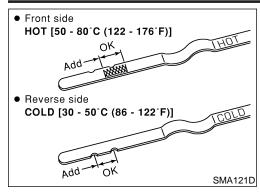
Drain plug:

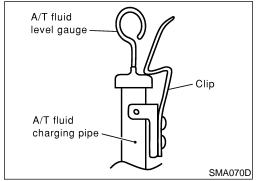
(2.5 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)



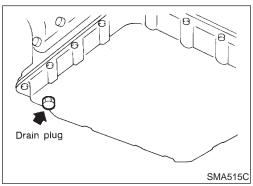
Checking Water Entry

Check water entry in the clutch housing by removing the sealing grommet, whenever driving in deep water or mud.









Checking A/T Fluid

NAMA0024

- 1. Warm up engine.
- 2. Check for fluid leakage.
- Before driving, fluid level can be checked at fluid temperatures of 30 to 50°C (86 to 122°F) using "COLD" range on dipstick.
- Park vehicle on level surface and set parking brake. a.
- Start engine and move selector lever through each gear position. Leave selector lever in "P" position.
- Check fluid level with engine idling.
- Remove dipstick and note reading. If level is at low side of either range, and fluid to the charging pipe.
- Re-insert dipstick into charging pipe as far as it will go.
- Remove dipstick and note reading. If reading is at low side of range, add fluid to the charging pipe.

Do not overfill.

- Drive vehicle for approximately 5 minutes in urban areas.
- Re-check fluid level at fluid temperatures of 50 to 80°C (122) to 176°F) using "HOT" range on dipstick.

Securely install A/T fluid level gauge.

- Check fluid condition.
- If fluid is very dark or smells burned, refer to AT section for checking operation of A/T. Flush cooling system after repair of A/T.
- If A/T fluid contains frictional material (clutches, bands, etc.). replace radiator and flush cooler line using cleaning solvent and compressed air after repair of A/T. Refer to LC-21, "Radiator".

Changing A/T Fluid

Warm up A/T fluid.

2. Stop engine.

Drain A/T fluid from drain plug and refill with new A/T fluid. Always refill same volume with drained fluid.

Fluid grade:

Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid. "RECOMMENDED **FLUIDS** Refer to **LUBRICANTS", MA-12.**

Fluid capacity (With torque converter):

2WD, 4WD 8.5 ℓ (9 US qt, 7-1/2 Imp qt)

Drain plug:

(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 MA-23, "Checking A/T Fluid". If fluid is still dirty, repeat steps 2 through 5.

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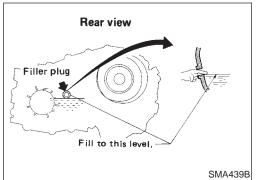
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Checking Part Time 4WD Transfer Fluid



Fill to this level. SMA439B T/F Vehicle front Drain plug

SMA444B

Checking Part Time 4WD Transfer Fluid

Check for fluid leakage and fluid level.

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

Filler plug:

(2.5 - 34 N·m (2.5 - 3.5 kg-m, 18 - 25 ft-lb)

Changing Part Time 4WD Transfer Fluid

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NAMA0026

When changing transfer fluid completely, A/T fluid may be used.

Fluid grade:

Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid or API GL-4.

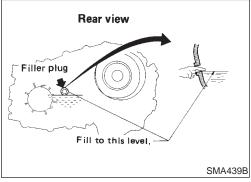
Refer to "Fluids and Lubricants", "RECOMMENDED FLUIDS AND LUBRICANTS", MA-12.

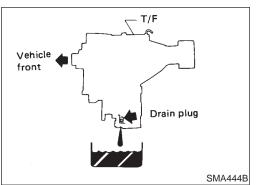
Fluid capacity:

2.2 \(\((2-3/8 \text{ US qt, 2 Imp qt} \)

Drain plug:

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





Checking All-mode 4WD Transfer Fluid

NAMA0047

Check for oil leakage and fluid level.

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

Filler plug:

(1.0 - 2.0 kg-m, 87 - 174 in-lb)

Changing All-mode 4WD Transfer Fluid

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

Fluid grade:

Nissan Matic "D" (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid Refer to "Fluids and Lubricants", "RECOMMENDED FLUIDS AND LUBRICANTS", MA-12.

Fluid capacity:

3.0 ℓ (3-1/8 US qt, 2-5/8 Imp qt)

Changing All-mode 4WD Transfer Fluid (Cont'd)

Drain plug:

(1.0 - 2.0 kg-m, 87 - 174 in-lb)





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Checking Propeller Shaft

Check propeller shaft for damage, looseness or grease leakage.

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Refer to "RECON LUBRICANTS", MA-12.

Check for oil leakage and oil level.

Filler plug: Front

Greasing Propeller Shaft

Grease grade: Refer to

Apply specified grease to nipples provided on propeller shaft.

"RECOMMENDED

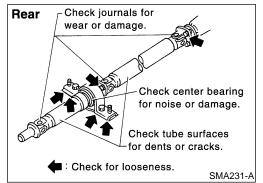
(C) : 59 - 118 N·m (6 - 12 kg-m, 43 - 87 ft-lb)

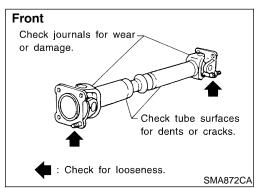
NAMA0030

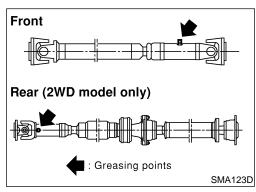
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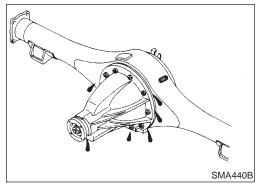
O: 39 - 59 N·m (4 - 6 kg-m, 29 - 43 ft-lb)

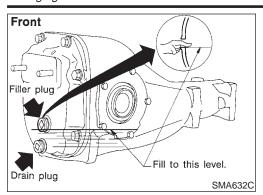
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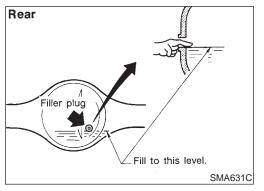












Changing Differential Gear Oil

NAMA0031

- 1. Drain oil from drain plug and refill with new gear oil.
- Check oil level.

Oil grade and viscosity:

See "RECOMMENDED FLUIDS AND LUBRICATNS",
MA-12, 13.

Oil capacity:

Front

1.85ℓ (3-7/8 US pt, 3-1/4 Imp pt)

Rear

2.8ℓ (5-7/8 US pt, 4-7/8 Imp pt)

Filler plug:

Front

□: 39 - 59 N⋅m (4 - 6 kg-m, 29 - 43 ft-lb)

Rear

□: 59 - 118 N⋅m (6 - 12 kg-m, 43 - 87 ft-lb)

Drain plug:

Front

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

Rear

: 59 - 118 N·m (6 - 12 kg-m, 43 - 87 ft-lb) LIMITED-SLIP DIFFERENTIAL GEAR

NAMA0031S01

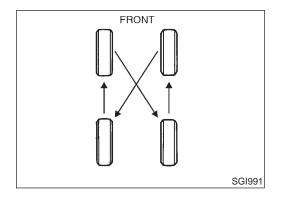
- Use only approved limited-slip differential gear oil.
- Limited-slip differential identification.
- 1. Lift both rear wheels off the ground.
- 2. Turn one rear wheel by hand.
- 3. If both rear wheels turn in the same direction simultaneously, vehicle is equipped with limited-slip differential.

Balancing Wheels

NAMA0032

Adjust wheel balance using the road wheel center.

Wheel balance (Maximum allowable unbalance): Refer to SDS, MA-32.



Tire Rotation

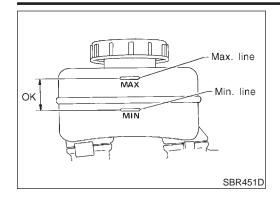
NAMA003

- After rotating the tires, adjust the tire pressure.
- Retighten the wheel nuts after the vehicle has been driven for the 1,000 km (600 miles). (also in cases of a flat tire, etc.)

Wheel nuts:

(12 - 15 kg-m, 87 - 108 ft-lb)

Checking Brake Fluid Level and Leaks



Checking Brake Fluid Level and Leaks

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

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Checking Brake Lines and Cables

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

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Checking Disc Brake

NAMA0036

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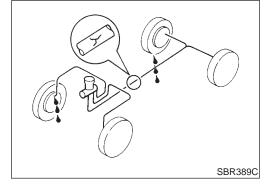
SU

NAMA0036S02

NAMA0036S03 HA

SC

EL



ROTOR

Check condition, wear and damage.

Standard thickness:

28 mm (1.10 in)

Minimum thickness: 26 mm (1.02 in)

CALIPER

Check for leakage.

SMA922A

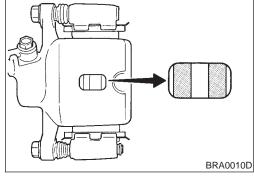


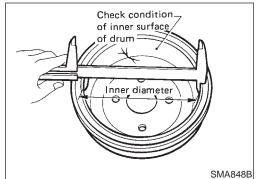
Check wear or damage.

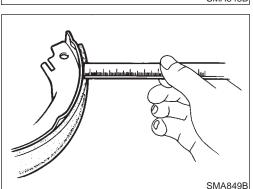
Standard thickness:

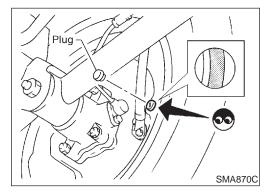
11 mm (0.43 in)

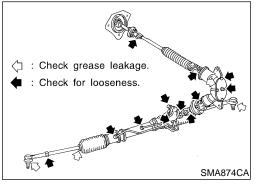
Minimum thickness: 2 mm (0.08 in)











Checking Drum Brake WHEEL CYLINDER

Check for leakage.

DRUM

Check condition and inner surface.

Standard inner diameter:

295 mm (11.61 in)

Drum repair limit (Inner diameter):

296.5 mm (11.67 in)

LINING

Check wear or damage.

Standard thickness:

6.1 mm (0.24 in)

Lining wear limit (Minimum thickness):

1.5 mm (0.059 in)

TEMPORARY METHOD FOR CHECKING LINING WEAR

Remove inspection hole plug and check for lining wear.

Checking Steering Gear, Linkage and Transfer Gear

STEERING GEAR

NAMA0038S01

NAMA0038

NAMA0037S01

NAMA0037S02

NAMA0037S03

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

STEERING LINKAGE

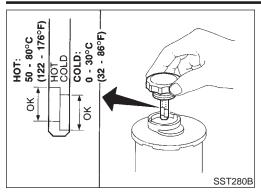
NAMA0038S02

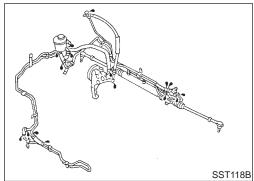
Check ball joint, dust cover and other component parts for looseness, wear, damage and grease leakage.

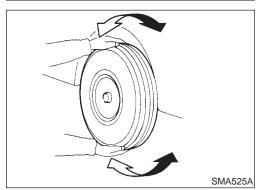
STEERING TRANSFER GEAR

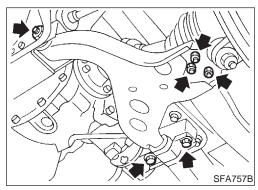
Check gear box for looseness, damage and grease leakage.

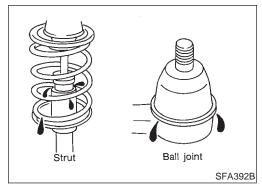
Checking Power Steering Fluid and Lines











Checking Power Steering Fluid and Lines CHECKING FLUID LEVEL

NAMA0039S01

Check fluid level with engine off.

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

CAUTION:

Do not overfill.

Recommended fluid is Genuine NISSAN PSF II or equiva-Refer to "RECOMMENDED **FLUIDS** LUBRICANTS", MA-12.

CHECKING LINES

NAMA0039S02 Check lines for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.

Check rack boots for accumulation of power steering fluid.

Axle and Suspension Parts

Check front and rear axle and suspension parts for excessive play, cracks, wear, or other damage.

Shake each wheel to check for excessive play.

- Rotate each wheel to check for irregular noise.
- Check axle and suspension nuts and bolts for looseness.
- Check strut (shock absorber) for oil leakage or other damage.
- Check suspension ball joint for grease leakage and ball joint dust cover for cracks or other damage.

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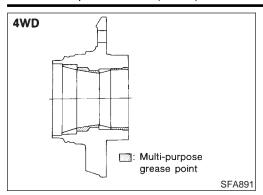
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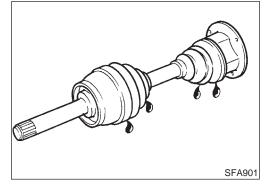
Axle and Suspension Parts (Cont'd)



FRONT WHEEL BEARING

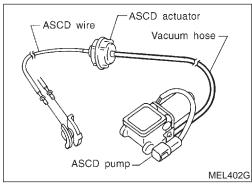
Apply multi-purpose grease sparingly to the following parts:

- Threaded portion of spindle
- Contact surface between wheel bearing lock washer (chamfered side) and outer wheel bearing
- Grease seal lip
- Wheel hub (as shown at left) 4WD —



Drive Shaft

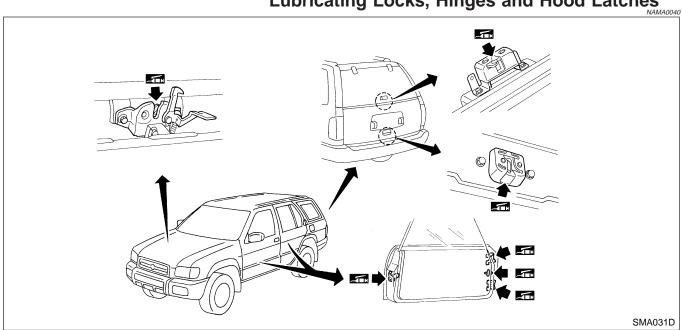
Check boot and drive shaft for cracks, wear, damage and grease leakage.



Vacuum Hose

Check vacuum hose (between ASCD actuator and ASCD pump) for breakage, cracks or fracture.





Checking Seat Belts, Buckles, Retractors, Anchors and Adjusters

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

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CAUTION:

• After any collision, inspect all seat belt assemblies, including retractors and other attached hardwares (i.e. anchor bolt, guide rail set). Nissan recommends to replace all seat belt assemblies in use during a collision, unless not damaged and properly operating after minor collision. Also inspect seat belt assemblies not in use during a collision, and replace if damaged or improperly operating. Seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal collision where the driver and passenger air bags are deployed.

• If any component of seat belt assembly is questionable, do not repair. Replace as seat belt assembly.

• If webbing is cut, frayed, or damaged, replace belt assembly.

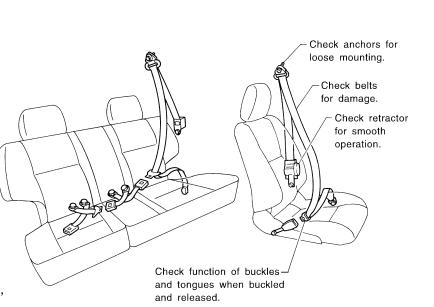
Never oil tongue and buckle.

• Use a genuine seat belt assembly.

For details, refer to "Seat Belt Inspection", "SEAT BELTS" in RS section.

Anchor bolt

◯ 43.1 - 54.9 N·m (4.4 - 5.6 kg-m, 32 - 40 ft-lb)



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Engine Maintenance

DRIVE BELT DEFLECTION

Unit: mm (in)

| | Used belt | Deflection of new belt | |
|--|---------------------|-----------------------------|---------------------------|
| | Limit | Deflection after adjustment | Deflection of new belt |
| Alternator Power steering oil pump Fan | 7 (0.28) | 4 - 5 (0.16 - 0.20) | 3.5 - 4.5 (0.138 - 0.177) |
| Air conditioner compressor | 12 (0.47) | 9 - 10 (0.35 - 0.39) | 8 - 9 (0.31 - 0.35) |
| Applied pushing force | 98 N (10 kg, 22 lb) | | |

DRIVE BELT TENSION

Unit: N (kg, lb)

| | Used | New belt | |
|---------------------------------------|--------------|------------------------------------|------------------------------------|
| | Limit | After adjustment | New Deit |
| Generator Power steering oil pump Fan | 294 (30, 66) | 730 - 818 (74.4 - 83.5, 164 - 184) | 838 - 926 (85.4 - 94.5, 188 - 208) |
| Air conditioner compressor | 196 (20, 44) | 348 - 436 (35.5 - 44.5, 78 - 98) | 470 - 559 (47.9 - 57.0, 106 - 126) |

SPARK PLUG (PLATINUM-TIPPED TYPE)

NAMA0060

| | Symbol | Make |
|--------------------|-------------------|------|
| Standard type | PLFR5A-11 | NGK |
| Cold type | PLFR6A-11 | NGK |
| Hot type | PLFR4A-11 | NGK |
| Plug gap (Nominal) | 1.1 mm (0.043 in) | |

Chassis and Body Maintenance

WHEEL BALANCE

NAMA0044

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