

NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES . . .

Both NISSAN and your NISSAN dealer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your NISSAN dealer are our primary concerns. Your NISSAN dealer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact the NISSAN Consumer Affairs Department using our toll-free number:

For U.S. customers
1-800-NISSAN-1
(1-800-647-7261)

For Canadian customers
1-800-387-0122

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (attached to the top of the instrument panel on the driver's side)
- Date of purchase
- Current odometer reading
- Your NISSAN dealer's name
- Your comments or questions

OR

You can write to NISSAN with the information at:

For U.S. customers
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003

For Canadian customers
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

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HEV Overview

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HYBRID SYSTEM

The Hybrid System combines the power of a gasoline engine and an electric motor to minimize fuel consumption and emissions.

Depending on driving conditions, the vehicle runs on a combination of the gasoline engine and the electric motor, whichever is best for those conditions.

Because the gasoline engine charges the high voltage battery as needed, the battery does not have to be charged from an outside source like an all-electric vehicle.

HIGH VOLTAGE BATTERY

WARNING

Your vehicle contains a sealed Nickel-Metal hydride high voltage battery. If disposed of improperly, it is hazardous to the environment and there is a risk of severe burns and electrical shock that may result in serious injury or death.

The high voltage battery is used to drive the electric motors in the Hybrid System.

The high voltage battery has a limited service life. Contact your NISSAN dealer for information about recycling or disposal of the battery.

HIGH VOLTAGE CAUTIONS

WARNING

- **The hybrid system uses high voltage up to 650 V. The system can be hot while and after starting. Be careful of both the high voltage and the high temperature. Obey the caution labels attached to the vehicle.**
- **Never touch, disassemble, remove or replace the high voltage parts, cables and their connectors. High voltage cables are orange. Touching, disassembling, removing or replacing those parts and cables can cause severe burns or electric shock that may result in serious injury or death.**
- **Never try to remove the service disconnect located in the trunk on the lower right-hand side. The service disconnect is used only when the vehicle is serviced by trained technicians wearing personal protection equipment and is part of the high voltage system. Touching the service disconnect can cause severe burns or electric shock that may result in serious injury or death.**

9 Technical and consumer information

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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedure described in the “Maintenance and do-it-yourself” section to determine the proper refill capacity.

	Capacity (Approximate)			Recommended Fluids and Lubricants
	US measure	Imp measure	Liter	
Fuel	20 gal	16-5/8 gal	75.6	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91)*1
Engine oil *7				
Drain and Refill				
With oil filter change	4-7/8 qt	4 qt	4.6	<ul style="list-style-type: none"> ▪ Engine oil with API Certification Mark *2 ▪ Viscosity SAE 0W-20 *2, *3
Without oil filter change	4-1/2 qt	3-3/4 qt	4.3	
Cooling system				
With reservoir	2 gal	1-3/4 gal	7.7	50% Genuine NISSAN Long Life Antifreeze/Coolant or equivalent 50% Demineralized or distilled water
Inverter unit cooling system	7/8 gal	3/4 gal	3.2	50% Genuine NISSAN Long Life Antifreeze/Coolant or equivalent 50% Demineralized or distilled water
Electronically controlled Continuously Variable Transmission (eCVT) fluid	—	—	—	Genuine NISSAN Matic W ATF *4
Brake fluid	—	—	—	Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 *5
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium Soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a) *6
Air conditioning system oil	—	—	—	Compressor oil ND Oil-11 *6
Windshield washer fluid	—	—	—	Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent

*1: For further details, see “Fuel recommendation.”

*2: For further details, see “Engine oil and oil filter recommendations.”

*3: SAE 5W-20 or 5W-30 engine oil may also be used. However, SAE 0W-20 is the best choice for optimum fuel economy and optimum starting in cold weather.

*4: **Use only Genuine NISSAN Matic W ATF. Using transmission fluid other than Genuine NISSAN Matic W ATF will damage the eCVT.**

*5: Available in mainland USA through your NISSAN dealer.

*6: For further details, see “Air conditioner system refrigerant and oil recommendations.”

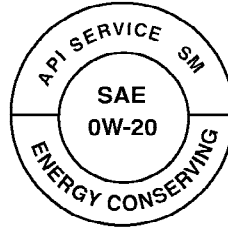
*7: For further details, see “Engine Oil” in the “Maintenance and do-it-yourself” section of this manual.

9-2 Technical and consumer information

API certification mark



API service symbol



WT10186

ENGINE OIL AND OIL FILTER RECOMMENDATIONS

Selecting the correct oil

It is essential to choose the correct grade, quality and viscosity engine oil to ensure satisfactory engine life and performance. See "Capacities and recommended fuel/lubricants" earlier in this section. NISSAN recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval

Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important to select the engine oil viscosity based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new NISSAN vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use a genuine NISSAN oil filter or its equivalent for the reason described in "Change intervals".

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Using engine oil and filters that are not of the specified quality, or exceeding recommended oil and filter change intervals could reduce engine life. Damage to the engine caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the NISSAN new vehicle limited warranty.

Your engine was filled with a high-quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

Operation under the following conditions may require more frequent oil and filter changes:

- repeated short distance driving at cold outside temperatures
- driving in dusty conditions
- extensive idling
- towing a trailer
- stop and go commuting

Refer to the "NISSAN Service and Maintenance Guide" for the maintenance schedule.

AIR CONDITIONER SYSTEM REFRIGERANT AND OIL RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the oil, compressor oil ND OIL-11.

CAUTION

The use of any other refrigerant or oil will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle does not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain government regulations require the recovery and recycling of any refrigerant during automotive air conditioner system service. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant.

Contact a NISSAN dealer when servicing your air conditioner system.