



2008 EX35 – Engine

VQ35HR

Tune Up Information: MA – 6

Engine Information: EM – 139

Engine Electrical - Starting: STR – 18
Charging: CHG – 31

PREPARATION

Make sure that the following parts are in order.

1. Battery
2. Ignition system
3. Engine oil and coolant levels (Oil filler cap, oil level, etc.)
4. Fuse
5. ECM harness connector
6. Vacuum hoses
7. Air intake system
8. Fuel pressure
9. Engine compression
10. Throttle valve
11. Evaporative emission canister purge control valve.

Note:

- On A/C equipped vehicles, turn A/C "Off" for testing.
- Transmission should be in "Park" or "Neutral".
- "CO" probe should be inserted into exhaust approximately 16 inches.
- Turn off headlamps, heater blower, rear defogger, etc.
- Front wheels pointed straight.
- Perform inspection with cooling fans "Off".



2008 EX35 – AT

RE5R05A

General Specifications & Shift Schedule:

TM – 265

Fail-Safe:

TM – 111

Clutch and Band Chart

TM – 21

TCM Input/Output Signal:

TM – 8

PRECAUTIONS

- Before performing any diagnostic test, vehicle should be driven for approximately 10 minutes to raise transmission to the proper operating temperature of 122° to 176°.
- During stall testing, never hold throttle wide open for more than 5 seconds at a time. Extended stall testing can overheat transmission and cause serious damage.
- Nissan **Matic 'J'** ATF is the only fluid accepted for warranty, service contracts and goodwill repairs.
- Before performing any internal repairs, thoroughly clean the outside of the transmission case to prevent contamination.
- Use lint free cloth or towels for wiping parts. Common shop towels can leave contaminating fibers on the transmission parts and cause improper transmission operation.
- When servicing the valve body, valves, sleeves, plugs, etc. should slide along the bores in the valve body under their own weight.
- Before assembly, apply a coat of ATF to all internal transmission parts. Use petroleum jelly to protect o-rings and seals, or to hold bearings and washers in place during assembly.

Important Note: Nissan **Matic 'J'** must be used in performing repairs paid by Nissan for the 2007 and later G35 Sedan, such as warranty, service contract, or good-will repairs. There will not be reimbursement for repairs when non-genuine Nissan **Matic 'J'** is used.



2008 EX35 – Heater & A/C

AIR CONDITIONER

General Air Conditioner

Specifications: **HA – 63**

Lubricant: **HA – 26**

Performance Test: **HA – 33**

Belt Tension: **EM – 13**

PERFORMANCE TEST CONDITIONS

- Vehicle indoors or in the shade
- Doors closed
- Windows open
- Hood open
- Temperature on "Max. Cold" setting
- Discharge air on "Face Vent"
- Recirculation switch on "Recirc"
- Fan speed on "High"
- A/C switch "On" and verify A/C Clutch engagement
- Engine speed at idle
- Operate the A/C system for 10 minutes before taking measurements

Precautions:

1. When removing the compressor, store it in the same position as it is mounted in the vehicle. Failure to do so may cause lubricant to enter the low pressure chamber and cause compressor damage.
2. Allow components stored in cool areas to warm to area temperatures before removing seals. This prevents condensation from forming inside A/C components.



2008 EX35 – Suspension

WHEEL ALIGNMENT (UNLADEN)

Wheel Alignment: **FSU – 8**

Front Suspension Torque 2WD: **FSU – 20**

AWD: **FSU – 39**

Steering: **ST – 53**

Rear Suspension: **RSU – 19**

Wheel & Tire: **WT – 98**

PRELIMINARY INSPECTION

- Check tires for wear and proper inflation
- Check wheel runout
- Check front wheel bearings excessive play
- Check front suspension for excessive play
- Check steering linkage for excessive play
- Check struts for leakage and condition
- Check vehicle for proper ride height

Precautions

1. When installing rubber parts, final tightening must be carried out under unladen conditions with the tires on the ground.
2. Recheck alignment after installing removed suspension components.



2008 EX35 – Brakes

BRAKE SYSTEM

General Specifications: **BR – 46**

Parking Brake: **PB – 10**

Fail-Safe **BRC – 94**

PRECAUTIONS

1. Never reuse drained brake fluid.
2. Be careful not to splash brake fluid on painted surfaces.
3. Use clean brake fluid to clean or wash master cylinder wheel cylinders, and disc brake calipers parts.
4. Mineral oils such as gasoline and kerosene should not be used. They can cause damage to rubber parts of the hydraulic system.
5. Use flare nut wrench when removing or installing brake line fittings.
6. Always torque brake lines.
7. Always replace brake pad shims when replacing brake pads.

Warning:

Clean brake pads and shoes with a dust collector to minimize the hazard of airborne particles or other materials.



2008 EX35 – Electrical

ELECTRICAL

General Specifications - Charging: CHG – 31
Starting: STR – 18

Battery Hydrometer

Temperature Corrections: PG – 4

Battery Charging: PG – 5

Fail-Safe: PCS – 30

Wire Colors: GI – 11

BATTERY CONDITION

Battery Sulphation:

A battery will be completely discharged if it is left unattended for a long time and the specific gravity becomes less than 1.100. This may result in sulphation on the cell plates. To determine if a battery has been sulfated, note its voltage and current when charging. If low current and higher voltages are observed in the initial stages of charging a sulfated battery is likely. A sulfated battery may sometimes be brought back into service by means of a long slow charge, 12 hours or more.

- Do not quick charge a fully discharged battery.
 - After charging, if the specific gravity of any two cells varies more than .050, the battery should be replaced.
-