

# STALL TEST

< ON-VEHICLE MAINTENANCE >

[CVT: RE0F10A]

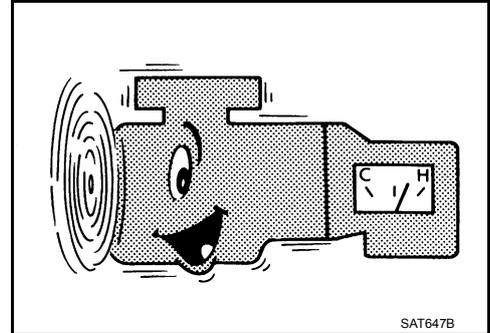
## STALL TEST

### Inspection and Judgment

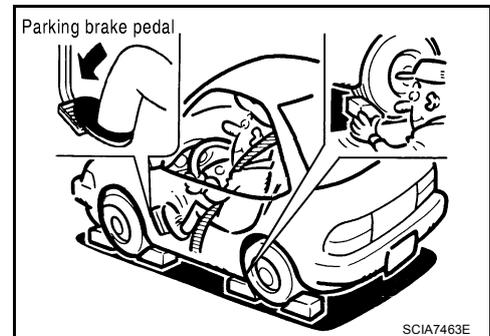
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#### INSPECTION

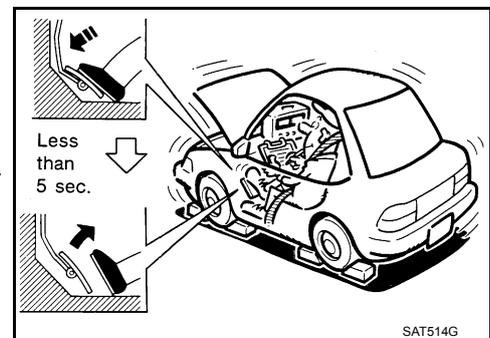
1. Inspect the amount of engine oil. Replenish the engine oil if necessary.
2. Drive for about 10 minutes to warm up the vehicle so that the CVT fluid temperature is 50 to 80°C (122 to 176°F). Inspect the amount of CVT fluid. Replenish if necessary.



3. Securely engage the parking brake so that the tires do not turn.
4. Install a tachometer where it can be seen by driver during test.  
**NOTE:**  
It is good practice to mark the point of specified engine rpm on indicator.
5. Start engine, apply foot brake, and place selector lever in "D" position.



6. While holding down the foot brake, gradually press down the accelerator pedal.
7. Quickly read off the stall speed, and then quickly remove your foot from the accelerator pedal.  
**CAUTION:**  
Never hold down the accelerator pedal for more than 5 seconds during this test.



**Stall speed:** Refer to [TM-576, "Stall Speed"](#).

8. Move the selector lever to the "N" position.
9. Cool down the CVT fluid.  
**CAUTION:**  
Run the engine at idle for at least 1 minute.
10. Repeat steps 6 through 9 with selector lever in "R" position.

#### JUDGMENT

## STALL TEST

< ON-VEHICLE MAINTENANCE >

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	Selector lever position		Expected problem location
	"D"	"R"	
Stall rotation	H	O	<ul style="list-style-type: none"> <li>• Forward clutch</li> </ul>
	O	H	<ul style="list-style-type: none"> <li>• Reverse brake</li> </ul>
	L	L	<ul style="list-style-type: none"> <li>• Engine and torque converter one-way clutch</li> </ul>
	H	H	<ul style="list-style-type: none"> <li>• Line pressure low</li> <li>• Primary pulley</li> <li>• Secondary pulley</li> <li>• Steel belt</li> </ul>

O: Stall speed within standard value position.

H: Stall speed is higher than standard value.

L: Stall speed is lower than standard value.

## SERVICE DATA AND SPECIFICATIONS (SDS)

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[CVT: RE0F10A]

# SERVICE DATA AND SPECIFICATIONS (SDS)

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### General Specification

INFOID:0000000001181162

Applied model		MR20DE	
		2WD	4WD
CVT model		RE0F10A	
CVT assembly	Model code number	1XF0D	1XF0E
Transmission gear ratio	D range	2.349 – 0.394	
	Reverse	1.750	
	Final drive	6.466	
Recommended fluid		NISSAN CVT Fluid NS-2 <sup>*1</sup>	
Fluid capacity		8.5 liter (7-1/2 Imp qt)	9.5 liter (8-3/8 Imp qt)

**CAUTION:**

- Use only Genuine NISSAN CVT Fluid NS-2. Do not mix with other fluid.
- Using CVT fluid other than Genuine NISSAN CVT Fluid NS-2 will deteriorate in driveability and CVT durability, and may damage the CVT, which is not covered by the warranty.

\*1: Refer to [MA-27. "Fluids and Lubricants"](#).

### Vehicle Speed When Shifting Gears

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Numerical value data are reference values.

(rpm)

Engine type	Throttle position	Shift pattern	Engine speed	
			At 40 km/h (25 MPH)	At 60 km/h (37 MPH)
MR20DE	8/8	"D" position	3,600 – 4,500	4,500 – 5,400
	2/8	"D" position	1,200 – 3,100	1,300 – 3,500

**CAUTION:**

Lock-up clutch is engaged when vehicle speed is approximately 18 km/h (11 MPH) to 90 km/h (56 MPH).

### Stall Speed

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Stall speed	2,500 – 3,000 rpm
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### Line Pressure

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kPa (bar, kg/cm<sup>2</sup>, psi)

Engine speed	Line pressure
	"R" or "D" positions
At idle	750 (7.50, 7.65, 108.8)
At stall	5,700 (57.00, 58.14, 826.5) <sup>*</sup>

\*: Reference values