

## 5. Road Test

### A: INSPECTION

#### 1. GENERAL PRECAUTION

Road tests should be conducted to properly diagnose the condition of CVT.

#### CAUTION:

**Always observe the local traffic laws when performing the test.**

#### 2. D RANGE SHIFT FUNCTION

In intelligent mode, make sure the engine speed is 1,100 — 1,300 r/min while driving on the level road at 50 km/h (31 MPH) after accelerating from halting to 1/4 of accelerator opening angle. Then stop the vehicle. Check normal gear change has occurred while the vehicle speed changes from a constant speed to zero.

#### 3. KICK-DOWN FUNCTION

Check if engine speed will rise by operating the accelerator opening angle to the full from a constant speed of 50 km/h (31 MPH) or more.

#### 4. ENGINE BRAKE OPERATION

In each mode of SI-DRIVE, check down shifting operation, engine braking, and indicators inside the meters.

##### When in S# mode

- Drive in “8th speed of manual mode” [90 — 100 km/h (56 — 62 MPH)], and shift down from 8th to 7th. Check if the indicator of combination meter switches “8” → “7”. At the same time, check engine braking in 7th gear.
- Drive in “7th speed of manual mode” [80 — 90 km/h (50 — 56 MPH)], and shift down from 7th to 6th. Check if the indicator of combination meter switches “7” → “6”. At the same time, check engine braking in 6th gear.
- Drive in “6th speed of manual mode” [70 — 80 km/h (43 — 50 MPH)], and shift down from 6th to 5th. Check if the indicator of combination meter switches “6” → “5”. At the same time, check the engine brake in 5th gear.
- Drive in “5th speed of manual mode” [60 — 70 km/h (37 — 43 MPH)], and shift down from 5th to 4th. Check if the indicator of combination meter switches “5” → “4”. At the same time, check the engine brake in 4th gear.
- Drive in “4th speed of manual mode” [50 — 60 km/h (31 — 37 MPH)], and shift down from 4th to 3rd. Check if the indicator of combination meter switches “4” → “3”. At the same time, check the engine brake in 3rd gear.
- Drive in “3rd speed of manual mode” [30 — 40 km/h (19 — 25 MPH)], and shift down from 3rd to 2nd. Check if the indicator of combination meter switches “3” → “2”. At the same time, check the engine brake in 2nd gear.
- Drive in “2nd speed of manual mode” [20 — 30 km/h (12 — 19 MPH)], and shift down from 2nd to 1st. Check if the indicator of combination meter switches “2” → “1”. At the same time, check the engine brake in 1st gear.

##### Other than in S# mode

- Drive in “6th speed of manual mode” [70 — 80 km/h (43 — 50 MPH)], and shift down from 6th to 5th. Check if the indicator of combination meter switches “6” → “5”. At the same time, check the engine brake in 5th gear.
- Drive in “5th speed of manual mode” [60 — 70 km/h (37 — 43 MPH)], and shift down from 5th to 4th. Check if the indicator of combination meter switches “5” → “4”. At the same time, check the engine brake in 4th gear.
- Drive in “4th speed of manual mode” [50 — 60 km/h (31 — 37 MPH)], and shift down from 4th to 3rd. Check if the indicator of combination meter switches “4” → “3”. At the same time, check the engine brake in 3rd gear.
- Drive in “3rd speed of manual mode” [40 — 50 km/h (25 — 31 MPH)], and shift down from 3rd to 2nd. Check if the indicator of combination meter switches “3” → “2”. At the same time, check the engine brake in 2nd gear.
- Drive in “2nd speed of manual mode” [20 — 30 km/h (12 — 19 MPH)], and shift down from 2nd to 1st. Check if the indicator of combination meter switches “2” → “1”. At the same time, check the engine brake in 1st gear.

# Road Test

## CONTINUOUSLY VARIABLE TRANSMISSION

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### **5. LOCK-UP FUNCTION**

When the accelerator is lightly depressed while driving on a flat road in “D” range, check that rpm does not change abruptly.

### **6. P RANGE OPERATION**

Stop the vehicle on an uphill grade of 5% or more and shift to the “P” range and apply the parking brake. Check that the vehicle does not move when the parking brake is released.

### **7. NOISE AND VIBRATION**

Check for noise and vibration during driving at a constant speed, accelerating, decelerating and manual shift operation.

### **8. OIL LEAKAGE**

After the driving test, inspect for leakage of CVTF and differential gear oil from the transmission body.