# AA80E AUTOMATIC TRANSMISSION > AUTOMATIC TRANSMISSION SYSTEM > INITIALIZATION

## PERFORM ROAD TEST TO ALLOW TCM TO LEARN

## **CAUTION:**

- Perform the following procedures while strictly observing all traffic laws and speed limits.
- Do not accelerate or decelerate rapidly.
- a. The "Road Test" procedure is as follows:
  - i. Warm up the engine.
  - ii. According to the parts replaced, perform the road test shown below.

Part Replaced	Road Test (w/ Sport	Road Test (w/o Sport
-	Package)	Package)
<ul> <li>Automatic transmission assembly</li> <li>TCM</li> <li>Valve body assembly</li> <li>Shift solenoid valve SL3</li> <li>Engine assembly</li> <li>ECM</li> </ul>	Pattern 1:*1 With shift lever in D, after gradually accelerating to 50 km/h (31 mph) or more, gradually decelerate to approx. 30 km/h (19 mph)	Perform pattern 1 and 4 <b>Pattern 1:*1</b> With shift lever in D, after gradually accelerating to 50 km/h (31 mph) or more, gradually decelerate to approx. 30 km/h (19 mph)
	Pattern 2: When driving at approximately 50 km/h (31 mph) with the D4 range selected, release the accelerator pedal to allow the vehicle to decelerate gradually to approximately 10 km/h (6 mph) Pattern 3:*2 Accelerate to a speed higher than 50 km/h (31	Pattern 4:*3 With S4 range selected, after gradually accelerating to 30 km/h (19 mph) or more, gradually decelerate to approx. 10 km/h (6 mph)

	mph). While gradually decelerating with shift lever in M and 5th gear selected, downshift to 4th gear at approx. 50 km/h (25 mph), to 3rd gear at approx. 40 km/h (25 mph), and to 2nd gear at approx. 30 km/h (19 mph).	
<ul> <li>Shift solenoid valve SL1</li> <li>Shift solenoid valve SL2</li> <li>Shift solenoid valve SL4</li> <li>Shift solenoid valve SL5</li> </ul>	Perform pattern 1 and 3 Pattern 1:*1 With shift lever in D, after gradually accelerating to 50 km/h (31 mph) or more, gradually decelerate to approx. 30 km/h (19 mph) Pattern 3:*2 Accelerate to a speed higher than 50 km/h (31 mph). While gradually decelerating with shift lever in M and 5th gear selected, downshift to 4th gear at approx. 50 km/h (25 mph), to 3rd gear at approx. 40 km/h (25 mph), and to 2nd gear at approx. 30	Perform pattern 1 Pattern 1:*1 With shift lever in D, after gradually accelerating to 50 km/h (31 mph) or more, gradually decelerate to approx. 30 km/h (19 mph)

km/h (19 mph).	
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mph), downshift to 4th gear.

mph), downshift to 3rd gear.

mph), downshift to 2nd gear.

vehicle speed.

#### HINT:

<ul> <li>*1: After gradually accelerating over a distan</li> </ul>	ce of
approximately 130 m (426.4 ft.) for a period	of approximately
15 seconds, gradually decelerate over a dista	nce of
approximately 45 m (147.6 ft.) for a period o	f approximately 5
seconds.	
• *2: Accelerate the vehicle to a speed slightly	higher than 50
km/h (31 mph).	-
Move the shift lever to M and select 5th gear.	
Release the accelerator pedal and allow the v	ehicle to
decelerate gradually.	
When the vehicle decelerates to approximate	y 50 km/h (31

When the vehicle decelerates to approximately 40 km/h (25

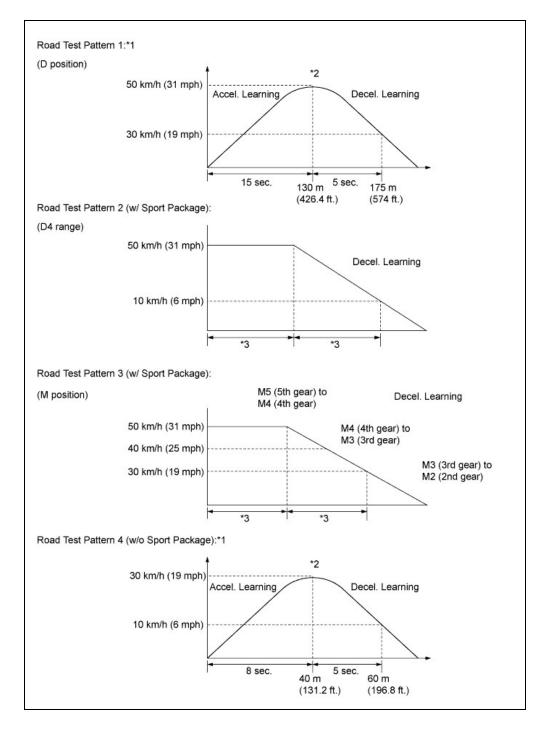
When the vehicle decelerates to approximately 30 km/h (19

approximately 40 m (131.2 ft.) for a period of approximately 8 seconds, gradually decelerate over a distance of approximately

20 m (65.6 ft.) for a period of approximately 5 seconds.When decelerating, apply the brakes as necessary to adjust the

• \*3: After gradually accelerating over a distance of

file:///D:/rm1480u/repair/html/etc/seepage contents.html



## HINT:

- \*1: The speed, time and distance values are approximate values.
- \*2: After accelerating, the deceleration does not need to be performed immediately.
- \*3: There is no specified time or distance.
- iii. Repeat the road tests until the shift shock and engine speed overrun (engine speed flare when shifting) reach an acceptable level.

#### **NOTICE:**

When repeating the acceleration/deceleration cycle of a road test pattern, bring the vehicle to a complete stop before accelerating again.

### **RESET MEMORY**

#### **NOTICE:**

- Perform Reset Memory (AT initialization) when replacing the engine assembly or ECM.
- Reset Memory can be performed only with the Techstream.
- Reset Memory cannot be completed by only disconnecting the cable from the negative (-) battery terminal.

## HINT:

The TCM memorizes the vehicle conditions when the ECT controls the automatic transmission assembly and engine assembly.

- a. The "Reset Memory" procedure is as follows:
  - **i.** Turn the engine switch off.
  - **ii.** Connect the Techstream to the DLC3.
  - **iii.** Turn the engine switch on (IG).
  - iv. Turn the Techstream on.
  - v. Enter the following menus: Powertrain / ECT / Utility / Reset Memory.

## **NOTICE:**

After performing Reset Memory, be sure to perform Road Test (Refer to AA80E AUTOMATIC TRANSMISSION > AUTOMATIC TRANSMISSION SYSTEM > ROAD TEST(200909 - )) described previously.