

## MANUAL SHIFTING TEST

### 1. MANUAL SHIFTING TEST

HINT:

- Through this test, it can be determined whether the trouble occurs in the electrical circuit or if it is a mechanical problem in the transmission.
- If any abnormalities are found in the following test, the problem is in the transmission itself.

- (a) Disconnect the connector of the transmission wire.

HINT:

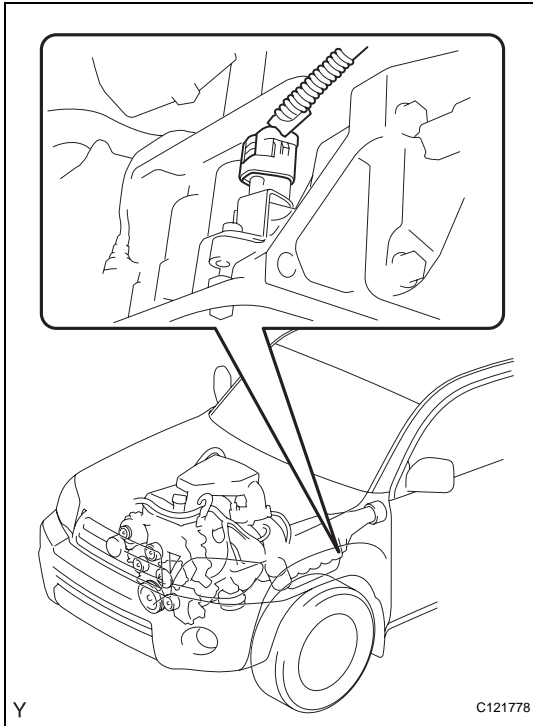
It is possible to deactivate the electrical shift control by disconnecting the transmission wire. The gear positions can then be changed mechanically with the shift lever.

- (b) Drive with the transmission wire disconnected. Move the shift lever to each position to check whether the gear position changes as shown in the table below.

Shift Lever Position	Gear Position
D	4th
3	4th
2	3rd
L	1st
R	R
P	P

- (c) Connect the connector of the transmission wire.

- (d) Clear the DTC. (See page [AT-25](#) )



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## MONITOR DRIVE PATTERN

### 1. MONITOR DRIVE PATTERN FOR ECT TEST

- (a) Perform this drive pattern as one method to simulate the detection conditions of the ECT (Electronic Controlled automatic Transmission) malfunctions.

(The DTCs may not be detected due to the actual driving conditions. And some DTCs may not be detected through this drive pattern.)

HINT:

Preparation for driving

- Warm up the engine sufficiently. (Engine coolant temperature should be 60 °C (140 °F) or higher)
- Drive the vehicle when the atmospheric temperature is -10 °C(14 °F) or higher. (Malfunction is not detected when the atmospheric temperature is less than -10 °C (14 °F))

Notice in driving

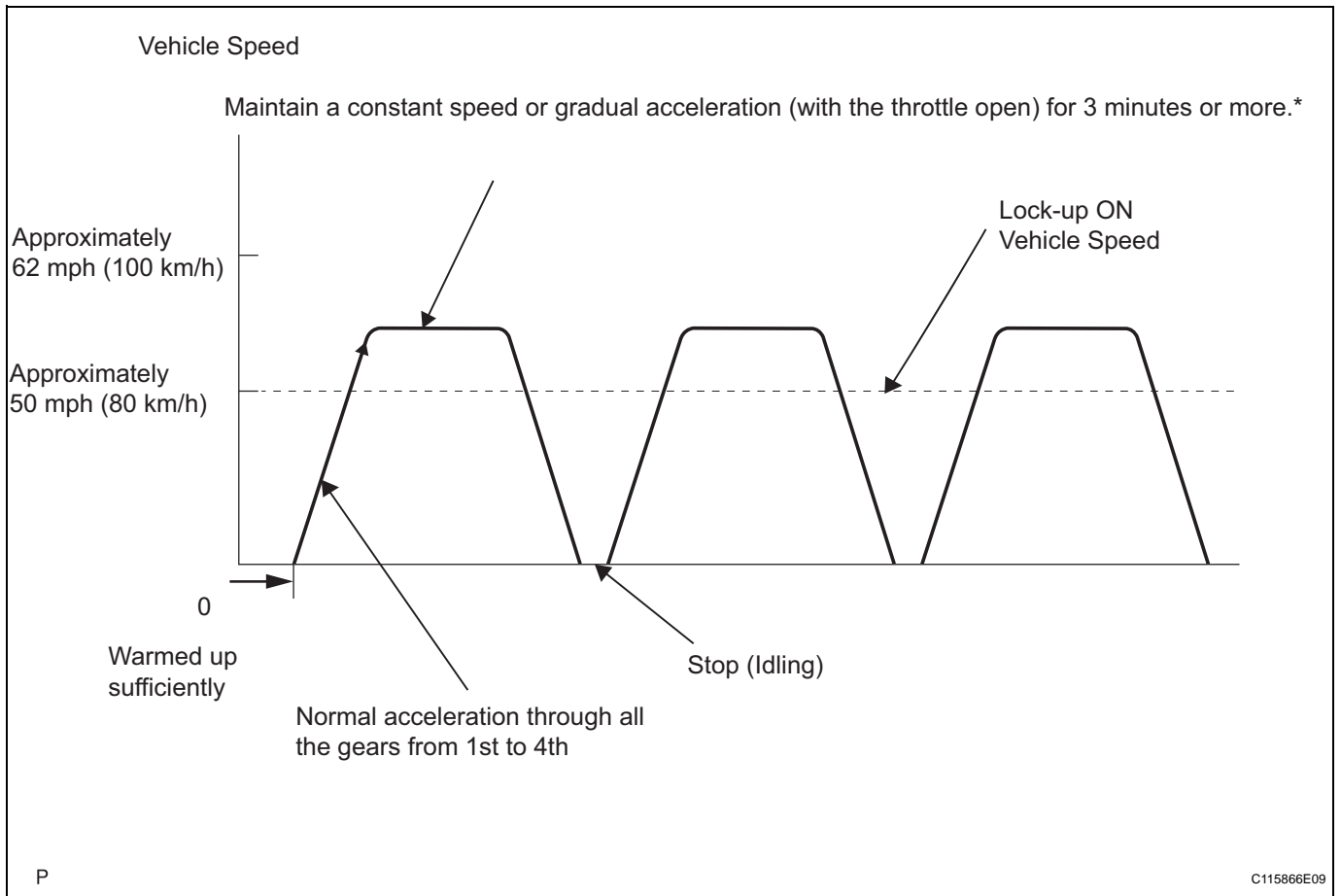
- Drive the vehicle through all gears.  
Stop → 1st → 2nd → 3rd → 4th → 4th (lock-up ON).
- Repeat the above driving pattern three times or more.

**NOTICE:**

- **The monitor status can be checked using the intelligent tester. When using the intelligent tester, monitor status can be found in the "ENHANCED OBD II/ DATA LIST" or under "CARB OBD II".**
- **In the event that the drive pattern must be interrupted (possibly due to traffic conditions or other factors) the drive pattern can be resumed and, in most cases, the monitor can be completed.**

**CAUTION:**

**Perform this drive pattern on as level a road as possible and strictly observe the posted speed limits and traffic laws while driving.**

**HINT:**

\*1: Drive at such a speed in the uppermost gear, so as to engage lock-up. The vehicle can be driven at a speed lower than that in the above diagram under the lock-up condition.