

7. Road Test

A: INSPECTION

1. GENERAL PRECAUTION

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

CAUTION:

When performing test, do not exceed posted speed limit.

2. SHIFT PATTERNS

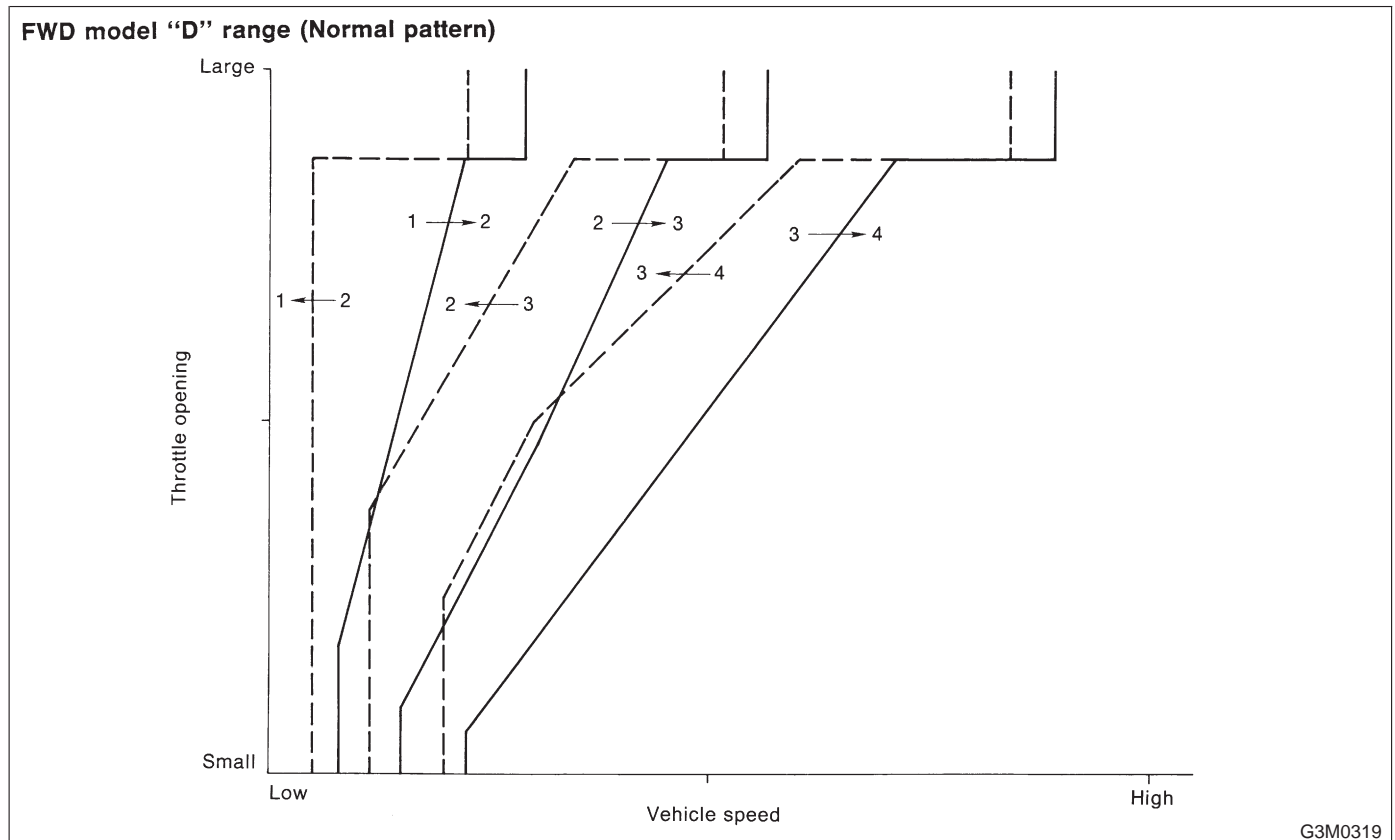
Check "kick-down".

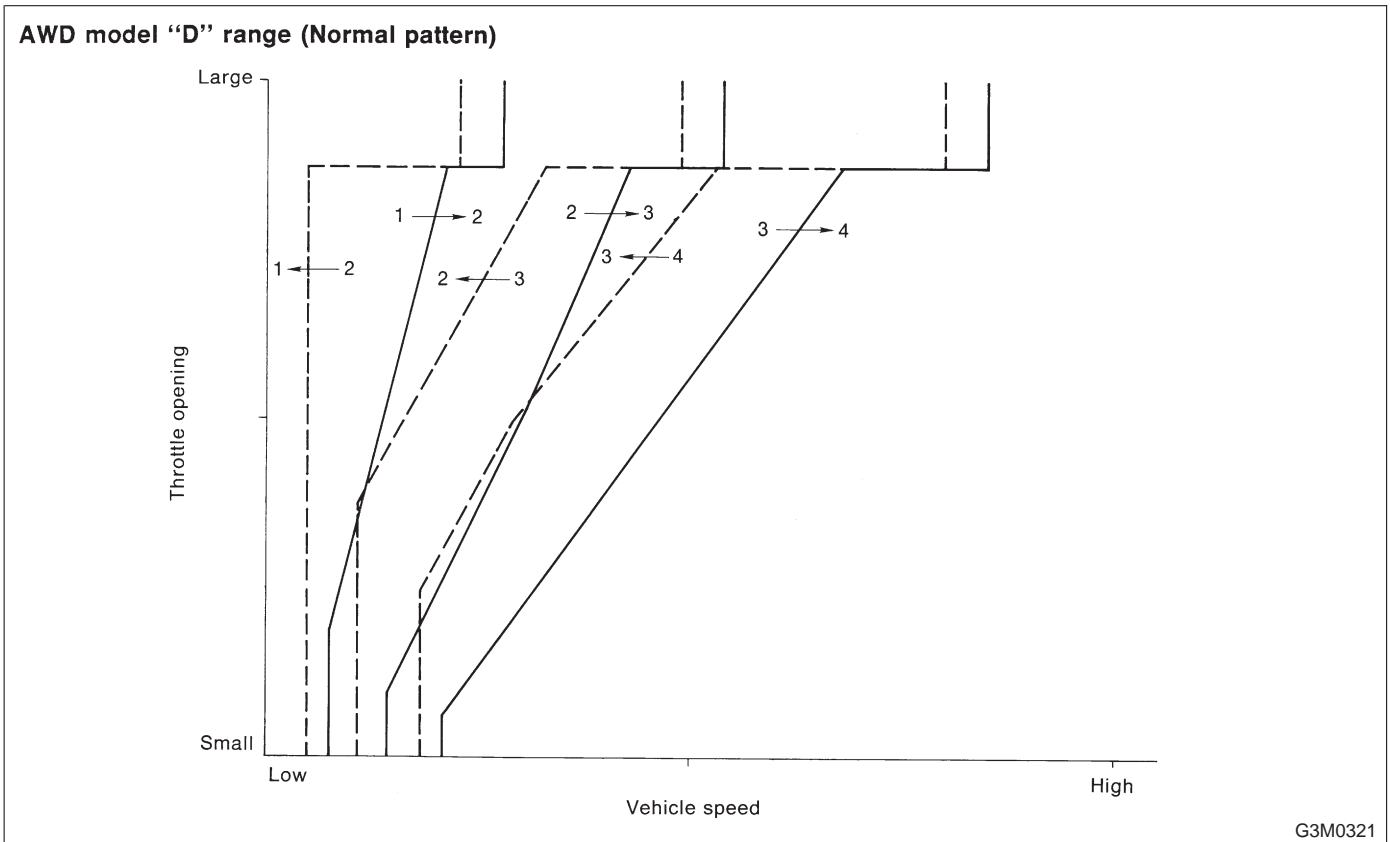
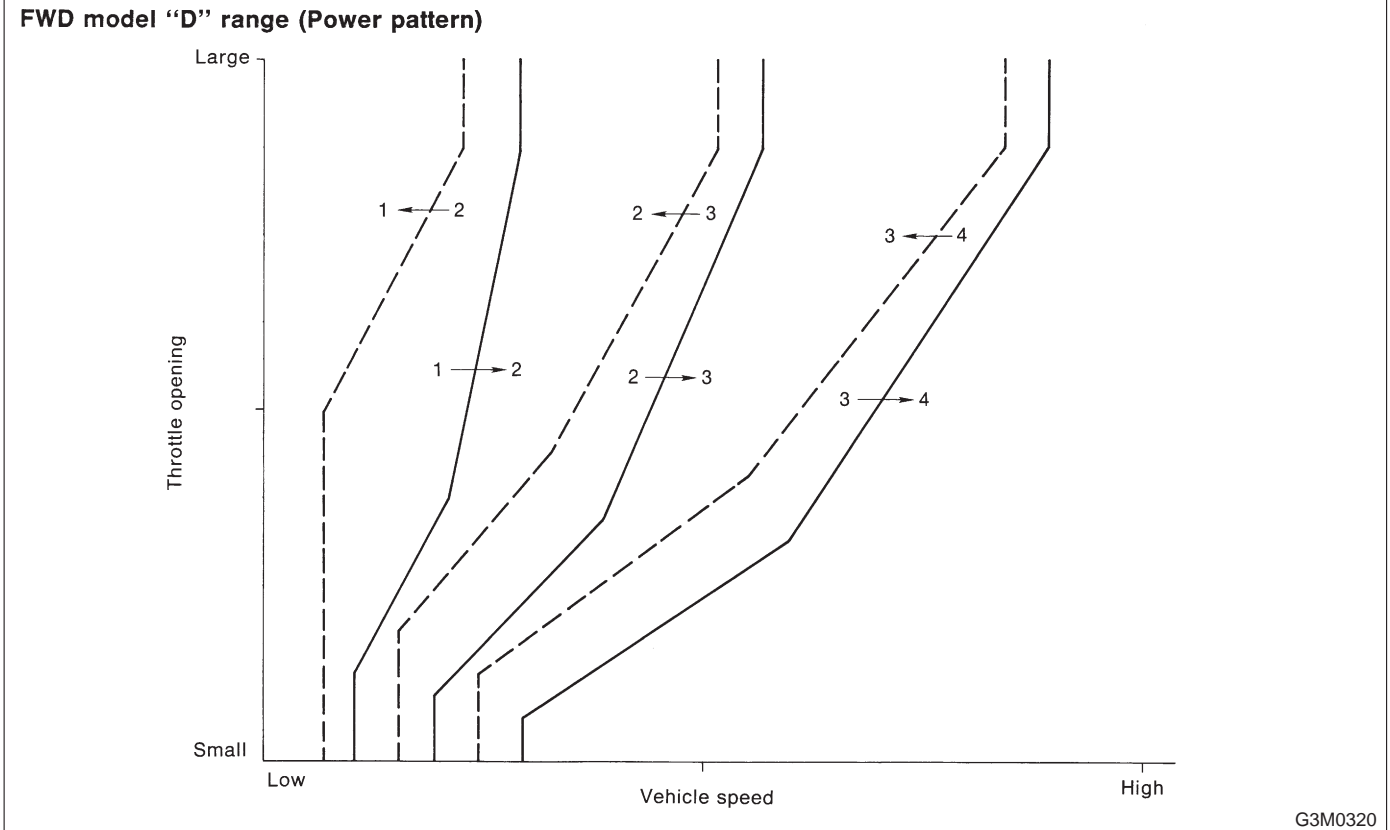
D range: 1st ← → 2nd ← → 3rd ← → 4th

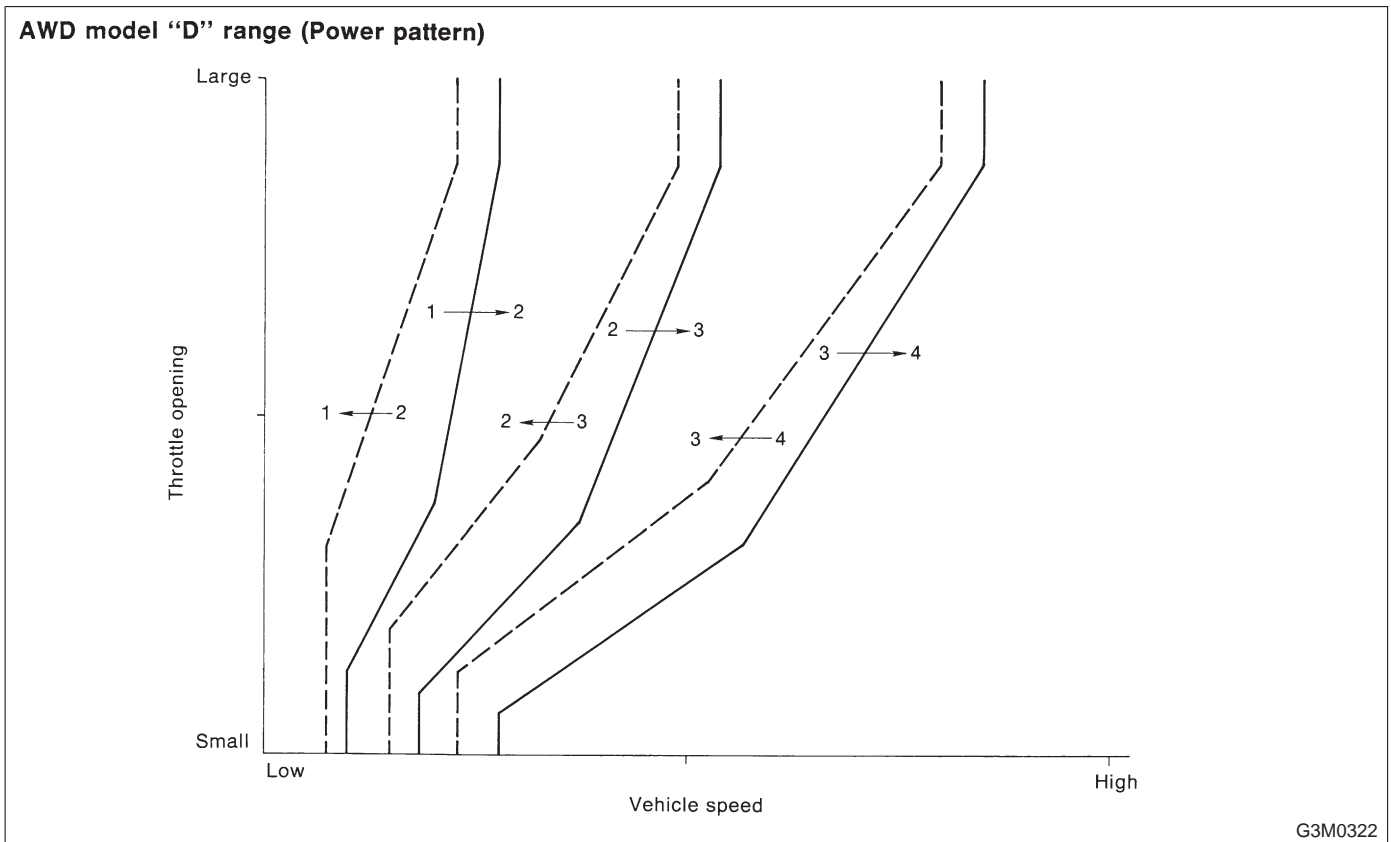
3 range: 1st ← → 2nd ← → 3rd ← 4th

2 range: 2nd ← 3rd ← 4th

1 range: 1st ← 2nd ← 3rd ← 4th







3. ENGINE BRAKE OPERATION

Engine brake operation:

- D range* → 4th gear
- 3 range* → 3rd gear
- 2 range* → 2nd gear
- 1 range* → 1st gear

4. AWD FUNCTION

If "tight-corner braking" occurs when the steering wheel is fully turned at low speed:

- 1) Determine the applicable trouble code and check the corresponding duty solenoid C (transfer) for improper operation.
- 2) If the solenoid is operating properly, check transfer clutch pressure.
- 3) If oil pressure is normal but "tight-corner braking" occurs:
Check the transfer control valve for sticking, and the transfer clutch facing for wear. <Ref. to 3-2 [W23A0].> and <Ref. to 3-2 [W24A0].>

8. Stall Test

A: MEASUREMENT

1. GENERAL INFORMATION

The stall test is of extreme importance in diagnosing the condition of the automatic transmission and the engine. It should be conducted to measure the engine stall speeds in R and 2 ranges.

Purposes of the stall test:

- 1) To check the operation of the automatic transmission clutch.
- 2) To check the operation of the torque converter clutch.
- 3) To check engine performance.

2. TEST METHODS

- 1) Preparations before test:
 - (1) Check that throttle valve opens fully.
 - (2) Check that engine oil level is correct.
 - (3) Check that coolant level is correct.
 - (4) Check that ATF level is correct.
 - (5) Check that differential gear oil level is correct.
 - (6) Increase ATF temperature to 50 to 80°C (122 to 176°F) by idling the engine for approximately 30 minutes (with select lever set to "N" or "P").
- 2) Install an engine tachometer at a location visible from the driver's compartment and mark the