6. Time Lag Test

A: INSPECTION

1. GENERAL DESCRIPTION

If the select lever is shifted while the engine is idling, there will be a certain time elapse or lag before the shock can be felt. This is used for checking the condition of the low clutch, reverse clutch, low & reverse brake and one-way clutch.

CAUTION:
• Perform the test at normal operating fluid temperature 70 to 80°C (158 to 176°F).
• Be sure to allow a 1 minute interval between tests.
• Make three measurements and take the average value.

2. TEST METHODS

1) Fully apply the parking brake.
2) Start the engine.
3) Check the idling speed (A/C OFF).
4) Shift the select lever from “N” to “D” range.
Using a stop watch, measure the time it takes from shifting the lever until a shock is felt.
Time lag: Less than 1.2 seconds
5) In the same manner, measure the time lag for “N” → “R”.
Time lag: Less than 1.5 seconds

3. EVALUATION

1) If “N” → “D” time lag is longer than specified:
- Line pressure too low
- Low clutch is worn
- One-way clutch not operating properly
- D-ring worn

2) If “N” → “D” time lag is longer than specified:
- Line pressure too low
- Reverse clutch is worn
- Low & reverse brake worn
- D-ring worn