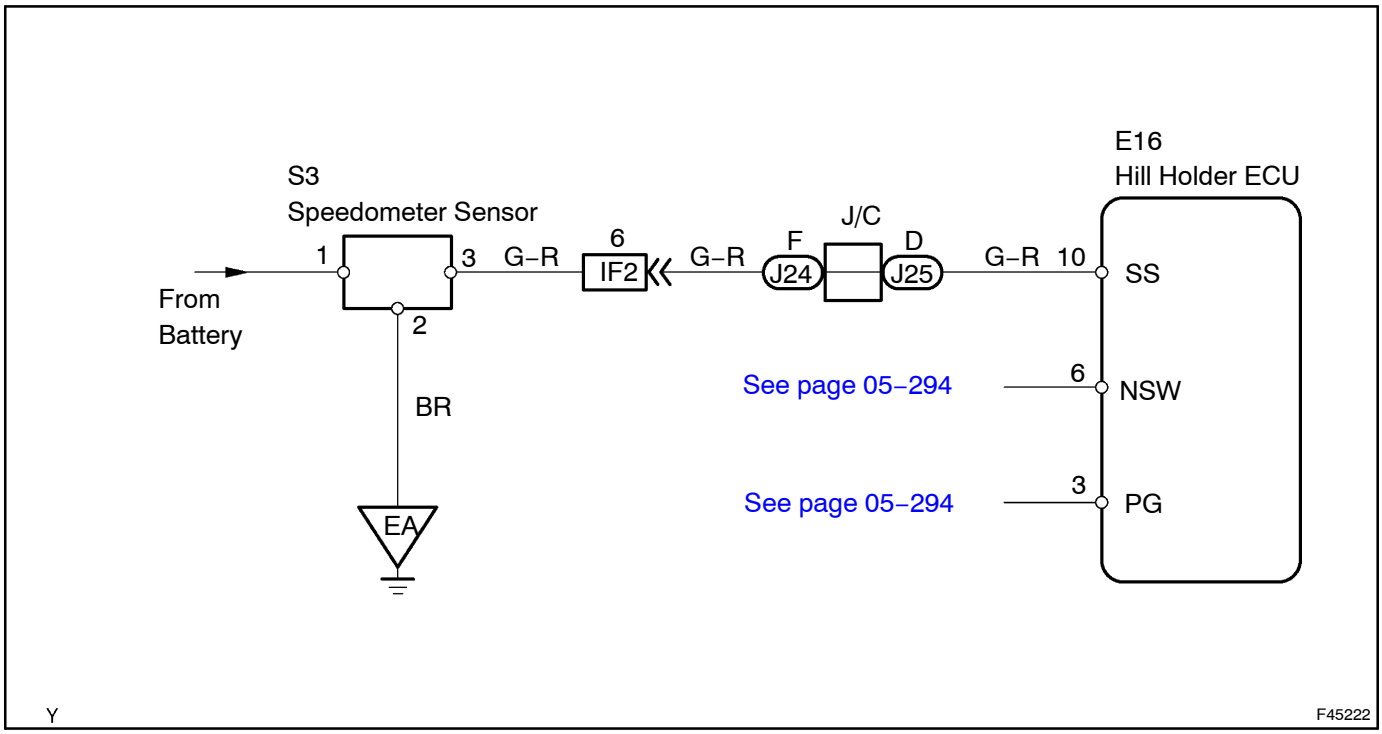
DTC	12	NEUTRAL START SWITCH SYSTEM MALFUNCTION

CIRCUIT DESCRIPTION

The neutral start switch outputs command signals to keep the brake hydraulic pressure and to release it to the hill holder ECU.

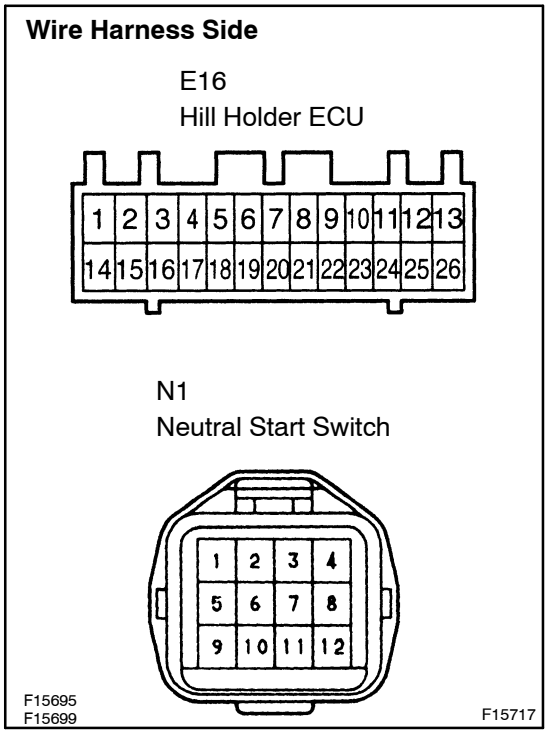
DTC No.	DTC Detection Condition	Trouble Area
12	While vehicle is accelerated to 50 km/h from 5 km/h, no gear change is detected continuously 5 times by neutral start switch	• Neutral start switch • Speedometer sensor • Hill holder ECU

WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK WIRE HARNESS (HILL HOLDER ECU ⇔ NEUTRAL START SWITCH)



(a) Disconnect the E16 ECU connector.
(b) Disconnect the N1 switch connector.
(c) Check the continuity between the wire harness side connectors.

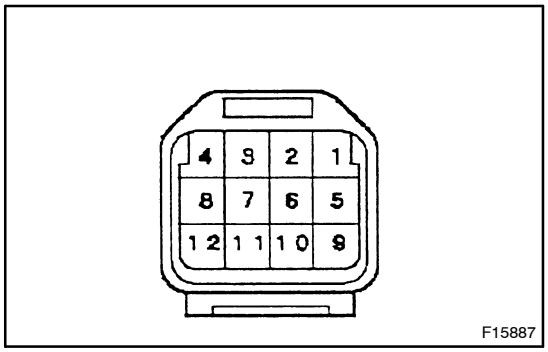
Standard:

Symbols (Terminal No.)	Specified Condition
PG (E16–3) ⇔ – (N1–2)	Continuity
NSW (E16–6) ⇔ – (N1–1)	Continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

2	INSPECT NEUTRAL START SWITCH



(a) Check the neutral start switch continuity.

Standard:

Terminal No.	Shift lever Position	Specified Condition
5 ⇔ 8, 9 ⇔ 12	P	Continuity
7 ⇔ 8	R	Continuity
6 ⇔ 8, 9 ⇔ 12	N	Continuity
4 ⇔ 8	D	Continuity
3 ⇔ 8	2	Continuity
2 ⇔ 8	L	Continuity

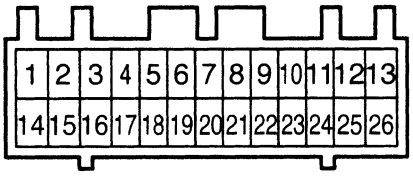
NG → **REPLACE NEUTRAL START SWITCH**

OK

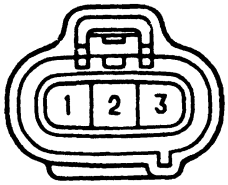
3	CHECK WIRE HARNESS (HILL HOLDER ECU ⇔ SPEEDOMETER SENSOR)

Wire Harness Side

E16
Hill Holder ECU



S3
Speedometer Sensor



F15695
F15696

F15714

(a) Disconnect the E16 ECU connector.
(b) Disconnect the S3 sensor connector.
(c) Check the continuity between the wire harness side connectors.

Standard:

Symbols (Terminal No.)	Specified Condition
SS (E16–23) ⇔ – (S3–3)	Continuity

NG → **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

4	CHECK SPEEDOMETER SENSOR

(a) Clear the DTC stored in the memory.
(b) Check for DTC again.
Standard: DTC 4 is output again.

NG → **REPLACE SPEEDOMETER SENSOR**

OK

CHECK AND REPLACE HILL HOLDER ECU