DTC	11	NEUTRAL START SWITCH SYSTEM OR BACKUP LIGHT SWITCH* SYSTEM MALFUNCTION

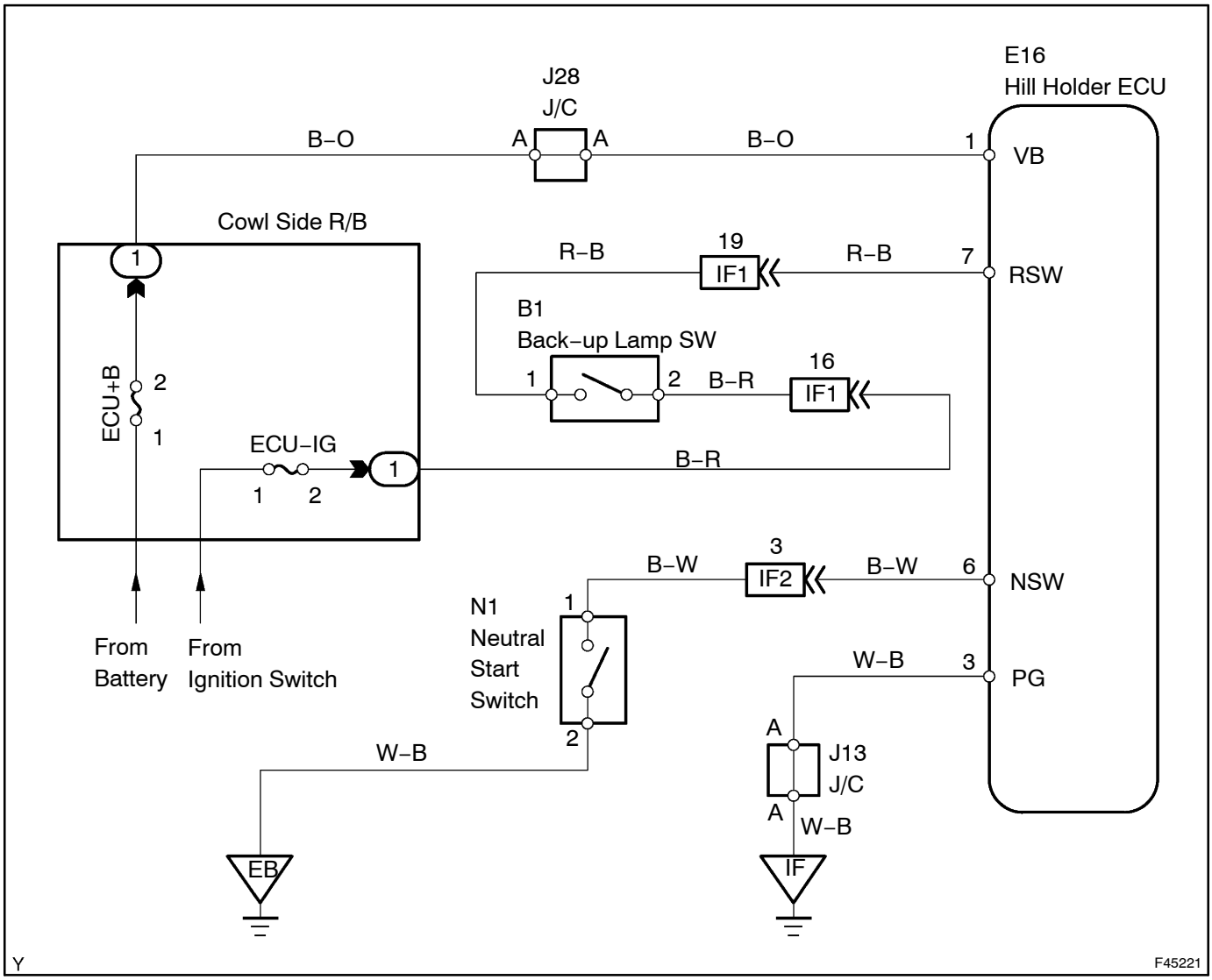
*: Back–up lamp switch

CIRCUIT DESCRIPTION

The neutral start switch and the back–up lamp switch output command signals to keep the brake hydraulic pressure and to release it to the hill holder ECU.

DTC No.	DTC Detection Condition	Trouble Area
11	Both of neutral start switch and back–up lamp switch are ON for 2 sec.	• Neutral start switch • Back–up lamp switch • Hill holder ECU

WIRING DIAGRAM

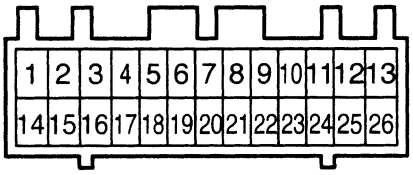


INSPECTION PROCEDURE

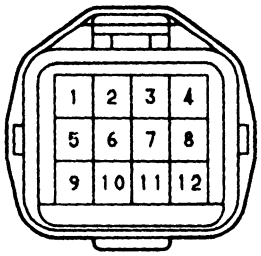
1	CHECK WIRE HARNESS (HILL HOLDER ECU ⇔ NEUTRAL START SWITCH)

Wire Harness Side

E16
Hill Holder ECU



N1
Neutral Start Switch



F15695
F15699

F15717

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

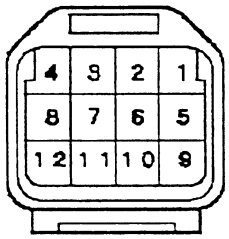
Standard:

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



F15887

(a) Check the 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

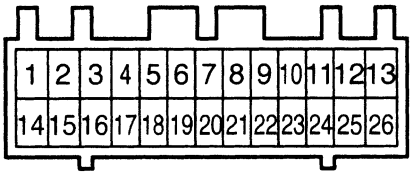
NG → **REPLACE NEUTRAL START SWITCH**

OK

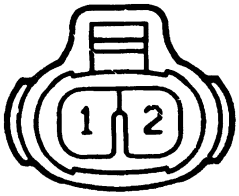
3	CHECK HARNESS AND CONNECTOR (HILL HOLDER ECU ⇔ BACK–UP LAMP SWITCH)

Wire Harness Side

E16
Hill Holder ECU



B1
Back–up Lamp Switch



F15695
F15701

F15718

(a) Disconnect the E16 ECU connector.
(b) Disconnect the B1 switch connector.
(c) Check the continuity between the wire harness side connectors.

Standard:

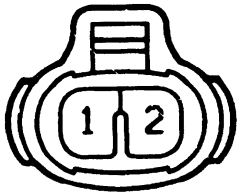
Symbols (Terminal No.)	Specified Condition
PG (E16–7) ⇔ – (B1–1)	Continuity

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

OK

4	INSPECT BACK UP LAMP SWITCH ASSY (VOLTAGE)

B1
Back–up Lamp Switch



F15701

(a) Disconnect the B1 switch connector.
(b) Check the voltage between the wire harness side connector and the body ground.

Standard:

Terminal No.	Switch Position	Specified Condition
B1–2 ⇔ Body ground	Ignition switch ON	20–28 V

NG → **REPLACE BACK UP LAMP SWITCH ASSY**

OK

CHECK AND REPLACE HILL HOLDER ECU