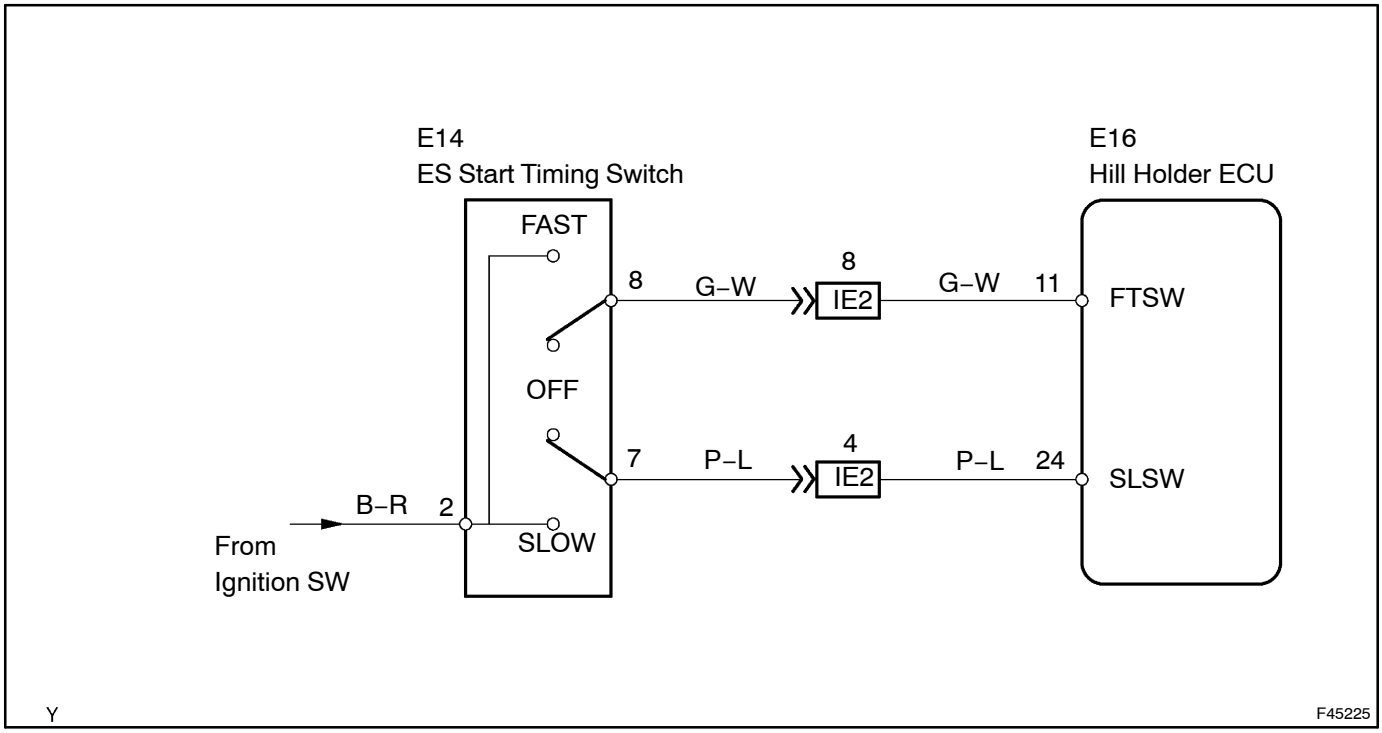
DTC 21 ES START TIMING SWITCH MALFUNCTION

CIRCUIT DESCRIPTION

The ES start timing switch can adjust the timing of releasing the brake hydraulic pressure. When the timing switch is operated, a release timing input signal (”fast” input signal or ”slow” input signal) is input to the hill holder ECU. In response to this input signal, the hill holder ECU adjusts the timing of releasing the brake hydraulic pressure.

DTC No.	DTC Detection Condition	Trouble Area
21	Both terminals are ON for 2 sec.	• ES start timing switch • Hill holder ECU

WIRING DIAGRAM

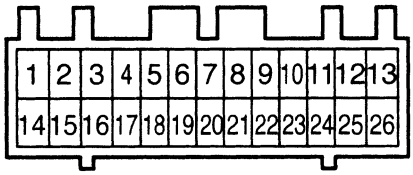


INSPECTION PROCEDURE

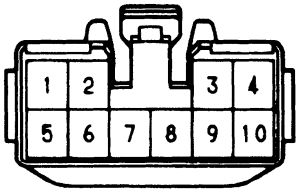
1	CHECK WIRE HARNESS (HILL HOLDER ECU ⇔ ES START TIMING SWITCH)

Wire Harness Side

E16
Hill Holder ECU



E14
ES Start Timing Switch



F15695
F15705

F15885

(a) Disconnect the E16 ECU connector.
(b) Disconnect the E14 switch connector.
(c) Check the continuity between the wire harness side connectors.

Standard:

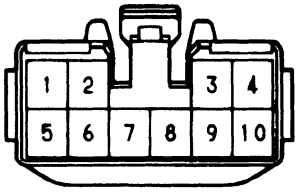
Symbols (Terminal No.)	Specified Condition
FTSW (E16–11) ⇔ – (E14–8)	Continuity
SLSW (E16–24) ⇔ – (E14–7)	Continuity

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

OK

2	CHECK ES START TIMING SWITCH (VOLTAGE)

Wire Harness Side
E14
ES Start Timing Switch



F15705

(a) Disconnect the E14 switch connector.
(b) Check the voltage between the wire harness side connector and the body ground.

Standard:

Symbols (Terminal No.)	Condition	Specified Condition
E14–3 ⇔ Body ground	Ignition switch ON	20 – 28 V

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

OK

CHECK AND REPLACE HILL HOLDER ECU