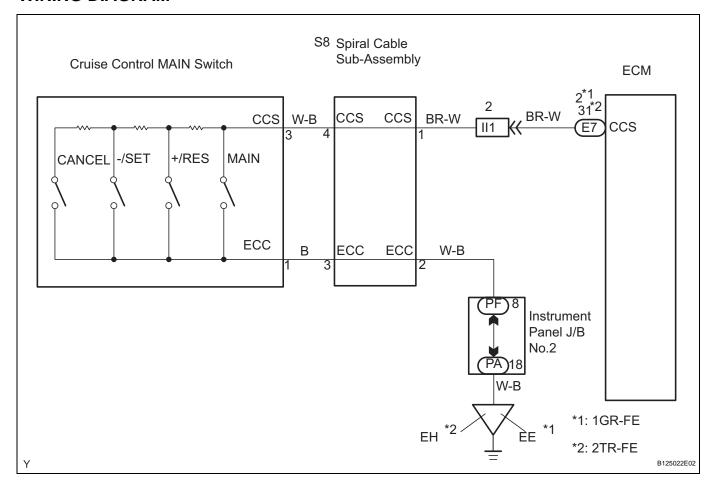
## **Cruise Control Switch Circuit**

## **DESCRIPTION**

This circuit sends signals to the ECM depending on the cruise control main switch condition.

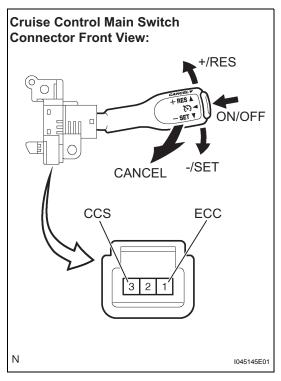
The battery supplies the positive (+) battery voltage to the cruise control main switch. Then terminal CCS of the ECM receives the voltage as the signal according to the switch condition.

## **WIRING DIAGRAM**





## INSPECT CRUISE CONTROL MAIN SWITCH



- (a) Turn the ignition switch off.
- (b) Disconnect the cruise control main switch connector.
- (c) Measure the resistance according to the value(s) in the table below.

#### Standard Resistance

Tester Connection	Switch Condition	Specified Condition	
1 - 3	+/RES	<b>235 to 245</b> Ω	
1 - 3	-/SET	617 to 643 $\Omega$	
1 - 3	CANCEL	1,509 to 1,571 $\Omega$	
1 - 3	Main Switch OFF	10 k $\Omega$ or higher	
1 - 3	Main Switch ON	Below 1 $\Omega$	

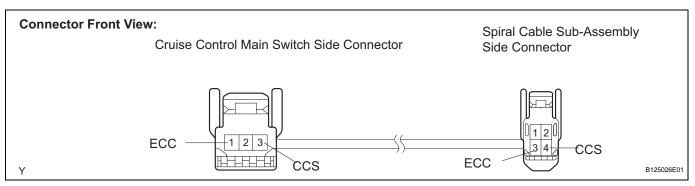
(d) Reconnect the cruise control main switch connector.





2

- CHECK HARNESS AND CONNECTOR (CRUISE CONTROL MAIN SWITCH SPIRAL CABLE SUB-ASSEMBLY)
  - (a) Disconnect the spiral cable side connector.



(b) Measure the resistance according to the value(s) in the table below.

## **Standard Resistance**

Tester Connection	Condition	Specified Condition
Terminal 1 (ECC) main switch side - Terminal 3 (ECC) spiral cable side	Always	Below 1 Ω
Terminal 3 (ECC) main switch side - Terminal 4 (ECC) spiral cable side	Always	Below 1 $\Omega$

(c) Reconnect the spiral cable side connector.

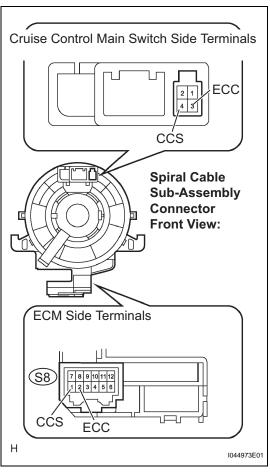


NG

## REPAIR OR REPLACE HARNESS OR CONNECTOR



## 3 INSPECT SPIRAL CABLE SUB-ASSEMBLY



- (a) Disconnect the spiral cable connector on the ECM side.
- (b) Measure the resistance according to the value(s) in the table below.

#### **Standard Resistance**

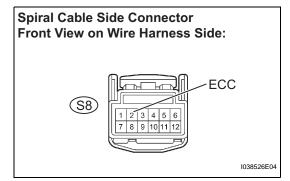
Tester Connection	Condition	Specified Condition
Terminal 4 (ECC) main switch side - CCS (S8-1)	Always	Below 1 Ω
Terminal 3 (ECC) main switch side - ECC (S8-2)	Always	Below 1 Ω

NG )

REPLACE SPIRAL CABLE SUB-ASSEMBLY

ОК

# 4 CHECK HARNESS AND CONNECTOR (SPIRAL CABLE SUB-ASSEMBLY - BODY GROUND)



(a) Measure the resistance according to the value(s) in the table below.

#### **Standard Resistance**

Tester Connection	Condition	<b>Specified Condition</b>
ECC (S8-2) - Body ground	Always	Below 1 $\Omega$

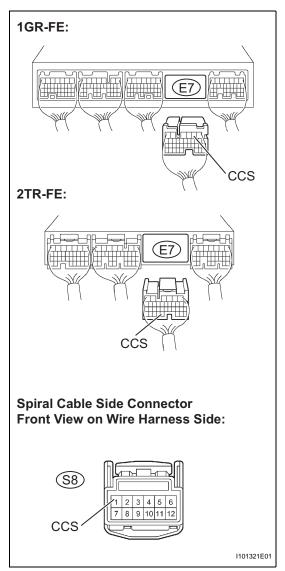
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (SPIRAL CABLE SUB-ASSEMBLY - BODY GROUND)





## 5 CHECK HARNESS AND CONNECTOR (SPIRAL CABLE SUB-ASSEMBLY - ECM)



- (a) Disconnect the E7 ECM connector.
- (b) Measure the resistance according to the value(s) in the table below.

## **Standard Resistance (1GR-FE)**

Tester Connection	Condition	Specified Condition
CCS (E7-2) - CCS (S8-1)	Always	Below 1 Ω
CCS (E7-2) - Body ground	Always	10 k $\Omega$ or higher

## Standard Resistance (2TR-FE)

	Tester Connection	Condition	Specified Condition
Ī	CCS (E7-31) - CCS (S8-1)	Always	Below 1 Ω
Ī	CCS (E7-31) - Body ground	Always	10 k $\Omega$ or higher

(c) Reconnect the ECM connector.

NG )

REPAIR OR REPLACE HARNESS OR CONNECTOR (SPIRAL CABLE SUB-ASSEMBLY - ECM)

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

