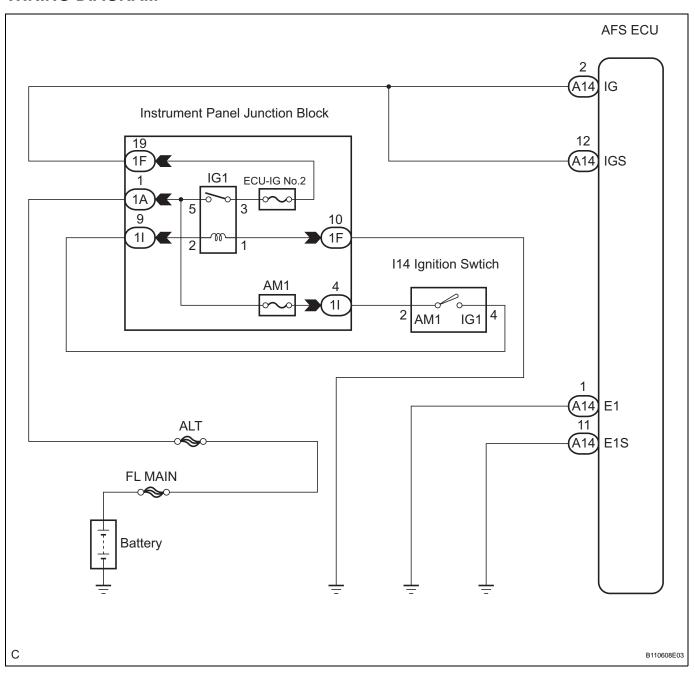
AFS ECU Power Source Circuit

DESCRIPTION

This circuit detects the state of the ignition switch and send it to the AFS ECU.

WIRING DIAGRAM



1 INSPECT FUSE

(a) Inspect the ECU-IG No.2 fuse and AM1 fuse in the instrument panel junction block assembly.

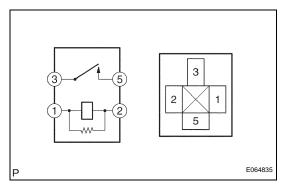
Resistance:

Below 1 Ω

NG REPLACE FUSE



2 INSPECT RELAY



- (a) Remove the IG1 relay from the instrument panel J/B assembly.
- (b) Measure the resistance according to the value(s) in the table below.

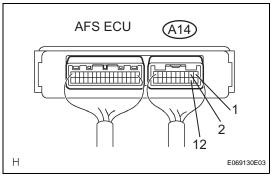
Resistance

Tester connection	Condition	Specified resistance
3 - 5	Always	10 kΩ or higher
3 - 5	Apply B+ between the terminal 1 and 2	Below 1 Ω

NG REPLACE RELAY



3 INSPECT AFS ECU



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

Voltage

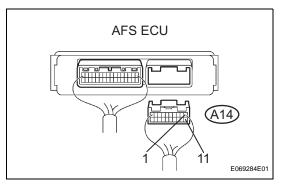
Tester connection	Condition	Specified condition
A14-2 (IG) - A14-1 (E1)	Ignition switch OFF $ ightarrow$ ON	Below 1 V → 10 to 14 V
A14-12 (IGS) - A14-1 (E1)	Ignition switch OFF $ ightarrow$ ON	Below 1 V $ ightarrow$ 10 to 14 V

NG Go to step 4

ОК

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

4 CHECK HARNESS AND CONNECTOR (AFS ECU - BODY GROUND)



- (a) Disconnect the A14 connector from headlight swivel ECU assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
A14-1 (E1) - Body ground	Always	Below 1 Ω
A14-11 (E1S) - Body ground	Always	Below 1 Ω



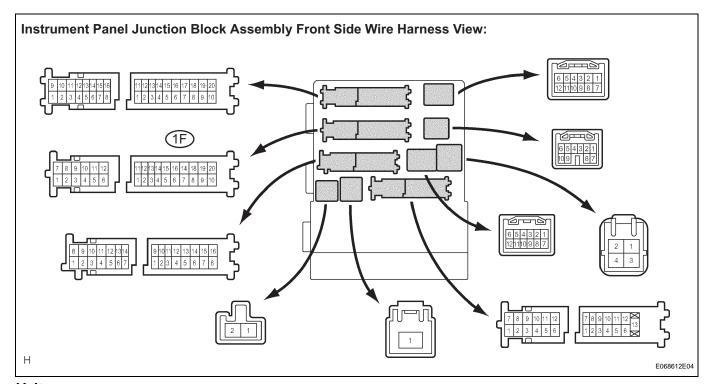
REPAIR OR REPLACE HARNESS OR CONNECTOR



5

INSPECT INSTRUMENT PANEL J/B ASSEMBLY

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



Voltage

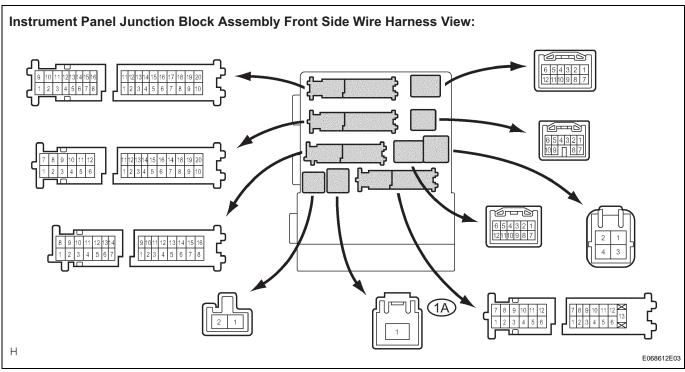
Tester connection	Condition	Specified condition
1F-19 - Body ground	Ignition switch OFF $ ightarrow$ ON	Below 1 V → 10 to 14 V

NG Go to step 6

OK

REPAIR OR REPLACE HARNESS OR CONNECTOR (INSTRUMENT PANEL J/B ASSEMBLY - AFS ECU)

- 6 INSPECT INSTRUMENT PANEL J/B ASSEMBLY (POWER SOURCE CIRCUIT)
 - (a) Measure the voltage according to the value(s) in the table below.



Voltage

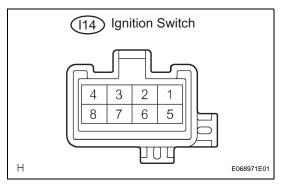
Tester connection	Condition	Specified condition
1A-1 - Body ground	Always	10 to 14 V

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (BATTERY - INSTRUMENT PANEL J/B ASSEMBLY)

ОК

7 INSPECT IGNITION SWITCH



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

Resistance

Tester connection	Condition	Specified condition
2 - 4	Ignition switch OFF	10 k Ω or higher
2 - 4	Ignition switch ON	Below 1 Ω

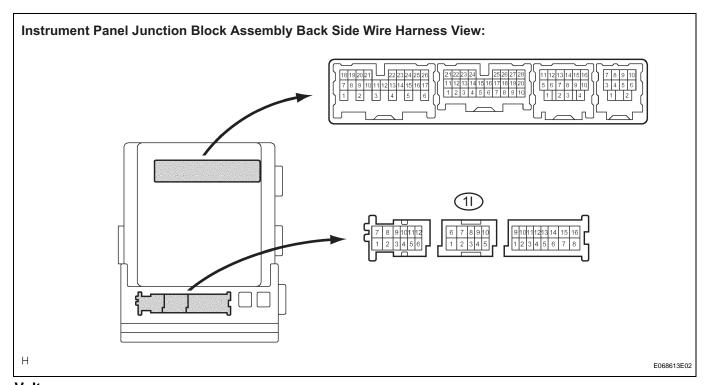




8

INSPECT INSTRUMENT PANEL J/B ASSEMBLY

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



Voltage

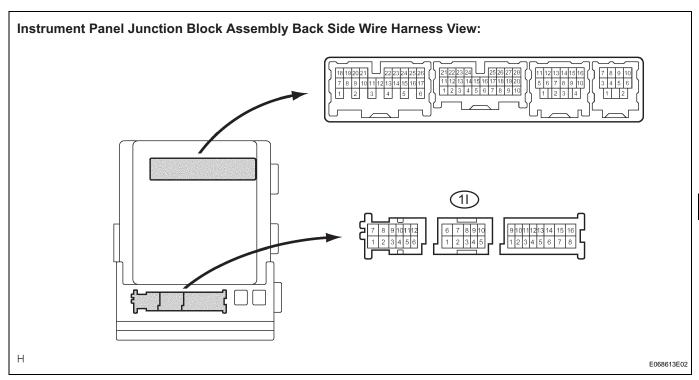
Tester connection	Condition	Specified condition
1I-4 - Body ground	Always	10 to 14 V

NG REPLACE INSTRUMENT PANEL J/B ASSEMBLY



9 INSPECT INSTRUMENT PANEL J/B ASSEMBLY

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



Voltage

Tester connection	Condition	Specified condition
1I-9 - Body ground	Ignition switch OFF $ ightarrow$ ON	Below 1 V → 10 to 14 V

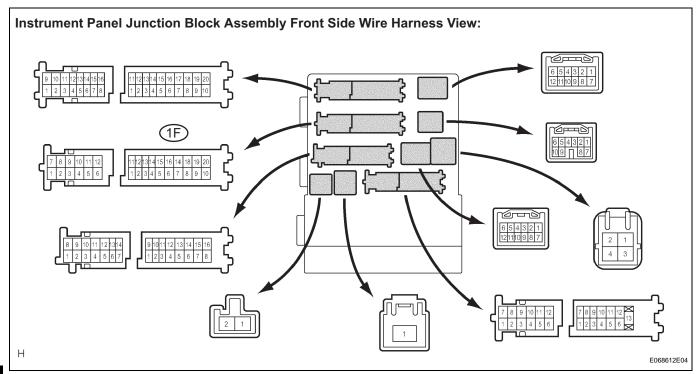
NG R

REPAIR OR REPLACE HARNESS OR CONNECTOR

ОК

10 CHECK HARNESS AND CONNECTOR (INSTRUMENT PANEL J/B ASSEMBLY - BODY GROUND)

- (a) Disconnect the 1F connector from the instrument panel junction block assembly.
- (b) Measure the resistance according to the value(s) in the table below.



Resistance

Tester connection	Condition	Specified condition
1F-10 - Body ground	Always	Below 1 Ω

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE INSTRUMENT PANEL J/B ASSEMBLY