DTC	P0500	Vehicle Speed Sensor Malfunction

DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
P0500/21	The malfunction code is output when the vehicle speed signal from the vehicle speed sensor is cut for 0.14 sec. or more while cruise control is in operation.	• Combination meter assembly • Vehicle speed sensor • Vehicle speed sensor circuit • ECM
P0503/23	Momentary interruption and noise malfunction codes are detected when a rapid change of vehicle speed occurs while cruise control is in operation.	

WIRING DIAGRAM

HINT:
See page ES-218

HINT:
See page ES-218

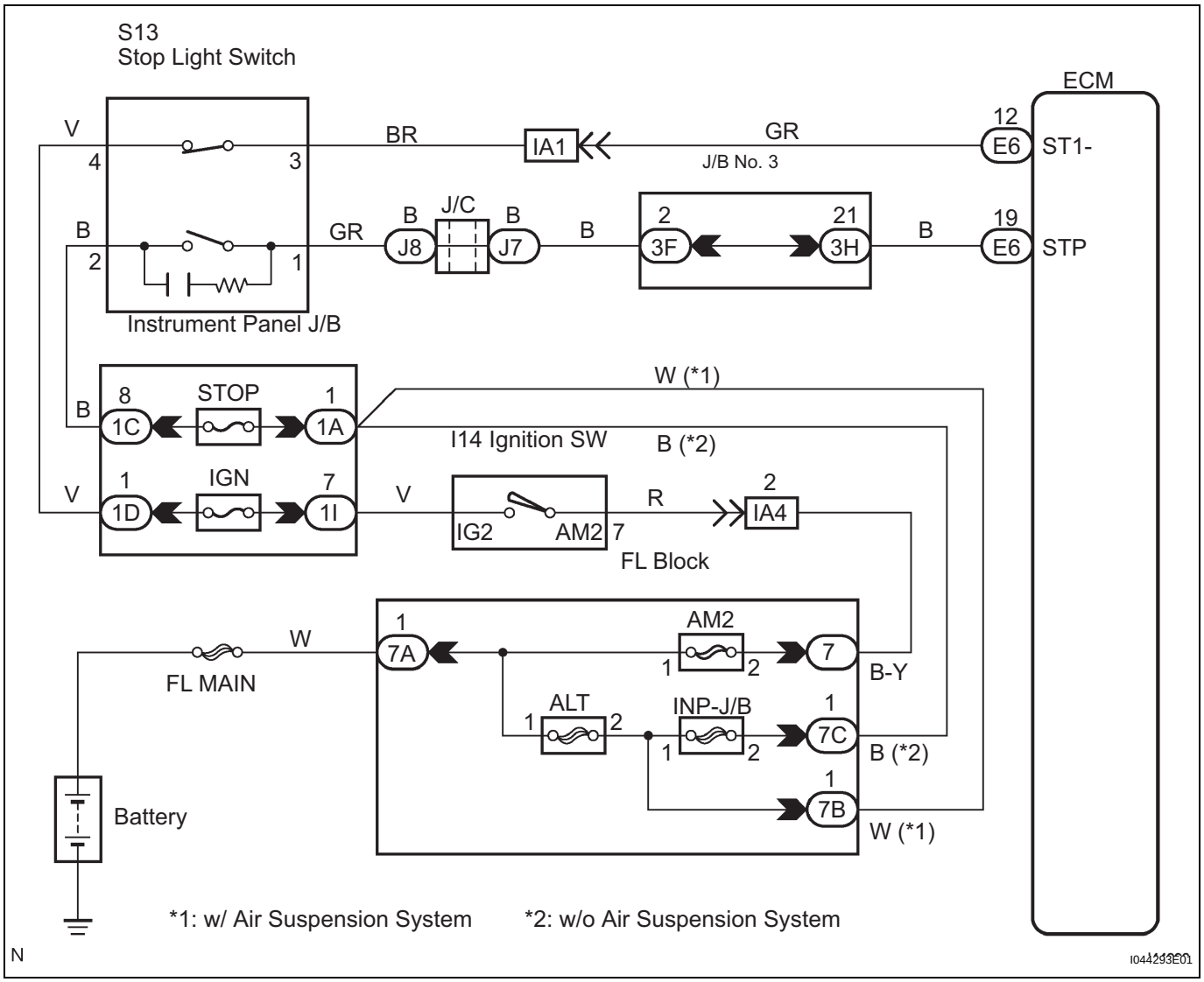
DTC	P0571	Brake Switch "A" Circuit

DESCRIPTION

When the brake pedal is depressed, the stop light switch sends a signal to the ECM. When the ECM receives this signal, it cancels the cruise control. Fail-safe function operates to enable normal driving even if there is a malfunction in the stop light signal circuit. The cancellation condition occurs when voltage is applied to terminal STP. When the brake is applied, voltage is normally applied to terminal STP of the ECM through the STOP SW fuse and the stop light switch, and the ECM turns the cruise control off.

DTC No.	DTC Detection Condition	Trouble Area
P0571	When voltage of STP terminal and that of ST1- terminal on the ECM are less than 1 V for 0.5 sec. or more	• Stop light switch • Stop light switch circuit • ECM

WIRING DIAGRAM



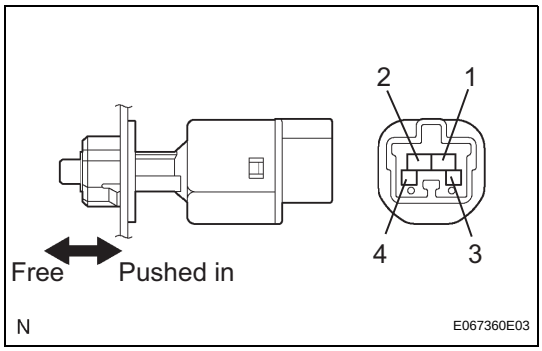
1	INSPECT STOP LIGHT SWITCH OPERATION

(a) Check that the stop light lights up when the brake pedal is depressed, and goes off when the brake pedal is released.

NG → INSPECT STOP LIGHT SWITCH CIRCUIT

OK

2	INSPECT STOP LIGHT SWITCH ASSEMBLY



(a) Disconnect the stop light switch assembly connector.
(b) Measure the resistance according to the value(s) in the table below.

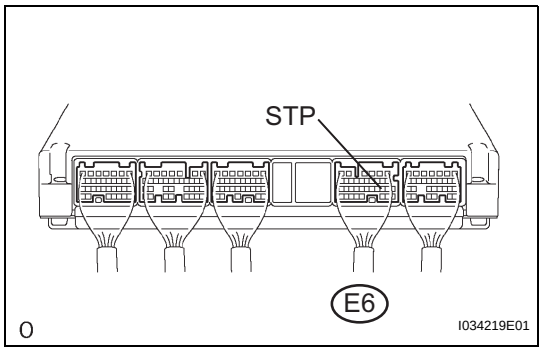
Resistance

Switch condition	Tester Connection	Specification
Switch pin free	1 - 2	1 Ω or less
Switch pin free	3 - 4	10 kΩ or higher
Switch pin pushed in	1 - 2	10 kΩ or higher
Switch pin pushed in	3 - 4	1 Ω or less

NG → REPLACE STOP LIGHT SWITCH ASSEMBLY

OK

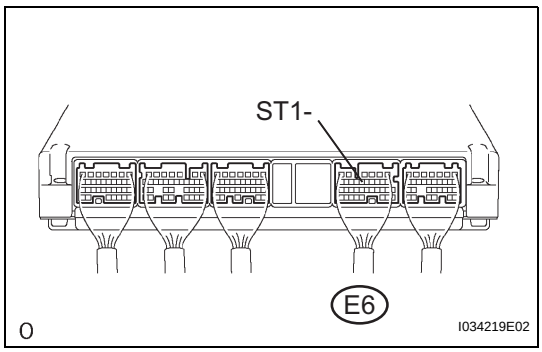
3	INSPECT ECM



(a) Remove the ECM with the connectors still connected.
(b) Disconnect the E6 connector from ECM.
(c) Turn the ignition switch to the ON position.
(d) Measure the voltage according to the value(s) in the table below.

Voltage

Pedal condition	Tester connection	Specification
Depressed	E6-19 (STP) - Body ground	10 to 14 V
Released	E6-19 (STP) - Body ground	1 V or less



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

Voltage

Pedal condition	Tester connection	Specification
Depressed	E6-12 (ST1-) - Body ground	10 to 14 V
Released	E6-12 (ST1-) - Body ground	1 V or less

NG → REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE ECM