DTC	P3137/348	COLLISION SENSOR LOW INPUT

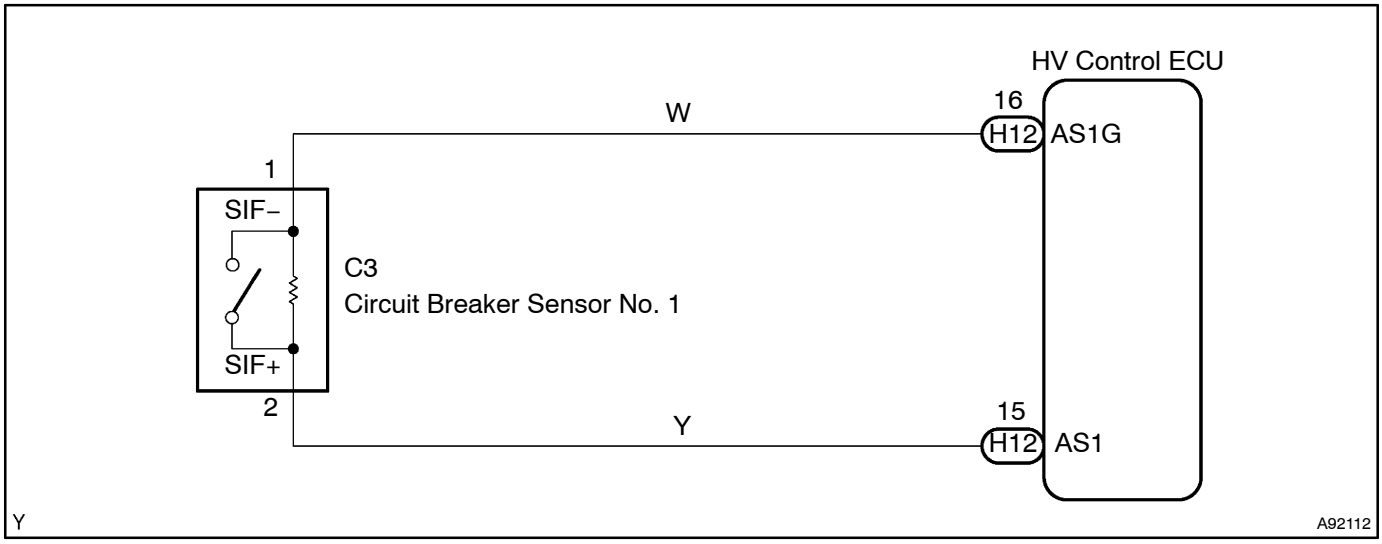
DTC	P3138/349	COLLISION SENSOR HIGH INPUT

CIRCUIT DESCRIPTION

The HV control ECU checks the line connection of the circuit breaker sensor (collision sensor) signal and gives warning to the driver if malfunction is detected.

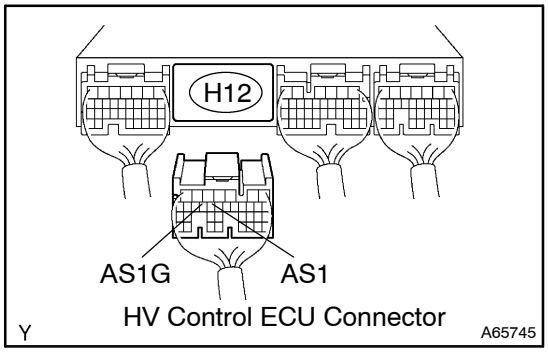
DTC No.	INF Code	DTC Detection Condition	Trouble Area
P3137	348	GND short in circuit breaker sensor No. 1 circuit	• Wire harness or connector • Circuit breaker sensor No. 1
P3138	349	Open or +B short in circuit breaker sensor No. 1 circuit	• Wire harness or connector • Circuit breaker sensor No. 1

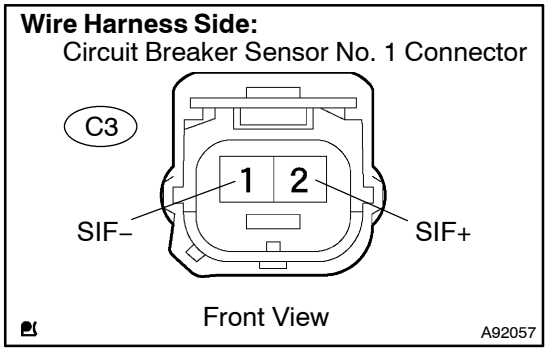
WIRING DIAGRAM



INSPECTION PROCEDURE

1	CHECK HARNESS AND CONNECTOR(HYBRID VEHICLE CONTROL ECU – CIRCUIT BREAKER SENSOR NO. 1)





(a) Disconnect the H12 HV control ECU connector.
(b) Disconnect the C3 circuit breaker sensor No. 1 connector.
(c) Turn the power switch ON (IG).
(d) Measure the voltage between the terminals of the HV control ECU connector and body ground.

Standard:

Tester Connection	Specified Condition
AS1 (H12–15) – Body ground	Below 1 V
AS1G (H12–16) – Body ground	Below 1 V

(e) Turn the power switch OFF.
(f) Check the resistance between the wire harness side connectors.

Standard (Check for open):

Tester Connection	Specified Condition
AS1 (H12–15) – SIF+ (C3–2)	Below 1 Ω
AS1G (H12–16) – SIF– (C3–1)	Below 1 Ω

Standard (Check for short):

Tester Connection	Specified Condition
AS1 (H12–15) or SIF+ (C3–2) – Body ground	10 kΩ or higher
AS1G (H12–16) or SIF– (C3–1) – Body ground	10 kΩ or higher

(g) Reconnect the circuit breaker sensor No. 1 connector.
(h) Reconnect the HV control ECU connector.

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

OK

REPLACE CIRCUIT BREAKER SENSOR NO.1