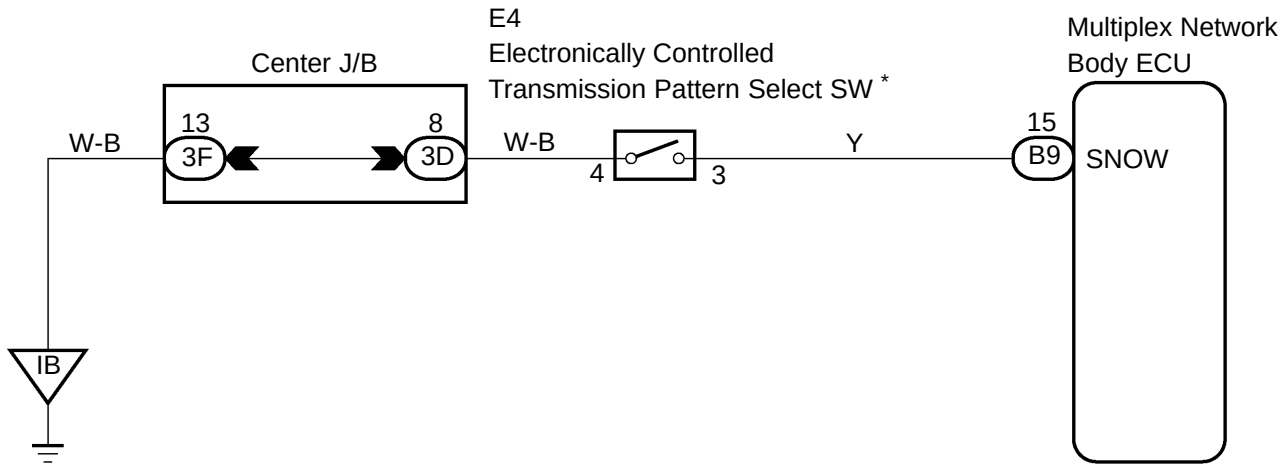
PATTERN SELECT SWITCH CIRCUIT

CIRCUIT DESCRIPTION

Multiplex network body ECU receives pattern select switch information, and sends it through the multiplex communication system to the ECM.
ECT SNOW is the system that operates the throttle motor to control engine output to reduce skidding of the driving wheels, guarantee takeoff acceleration, driving straightness and turning stability.

WIRING DIAGRAM



(*) Pattern Select Switch (ECT SNOW Switch)
When the ECT SNOW switch is pushed, the switch contact is made and the ECT SNOW mode is selected. To cancel the ECT SNOW mode, push the ECT SNOW switch once again. The ECT SNOW mode is automatically cancelled when the ignition switch is turned ”OFF”.

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INSPECTION PROCEDURE

1	DRIVING TEST

(a) Start the engine.
(b) Turn the ECT SNOW switch ”OFF” (Normal drive mode).
(c) Confirm vehicle response by driving from a parked position to fully depressing the accelerator pedal.
(d) Turn the ECT SNOW switch ”ON” and perform the same check as (c).
Confirm that there is a difference between ECT SNOW switch ”ON” and ”OFF”.

HINT:
- Driving test should be done on a paved road (a nonskid road).
- Make sure not to use the TRAC system when testing a vehicle equipped with one.

OK:
There is a difference in acceleration between ”ON” and ”OFF”.

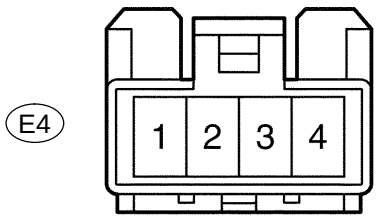
NG → **Go to step 2**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-904)

2	CHECK HARNESS AND CONNECTOR(PATTERN SELECT SWITCH ASSY NO.1 - BODY GROUND)

Wire Harness Side:
(Connector Front View):



(a) Disconnect the connector of pattern select switch (ECT SNOW switch).
(b) Measure the resistance according to the value(s) in the table below.

Standard:

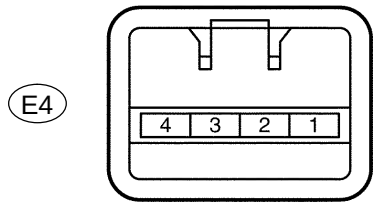
Tester Connection	Specified Condition
4 - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01-36)**

OK

3	INSPECT PATTERN SELECT SWITCH ASSY NO.1

Switch Side:
(Connector Front View):



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

Standard:

Switch Condition	Tester Connection	Specified Condition
Press continuously Pattern select switch	3 - 4	Below 1 Ω
Release Pattern select switch		10 kΩ or higher

NG → **REPLACE PATTERN SELECT SWITCH ASSY NO.1**

OK

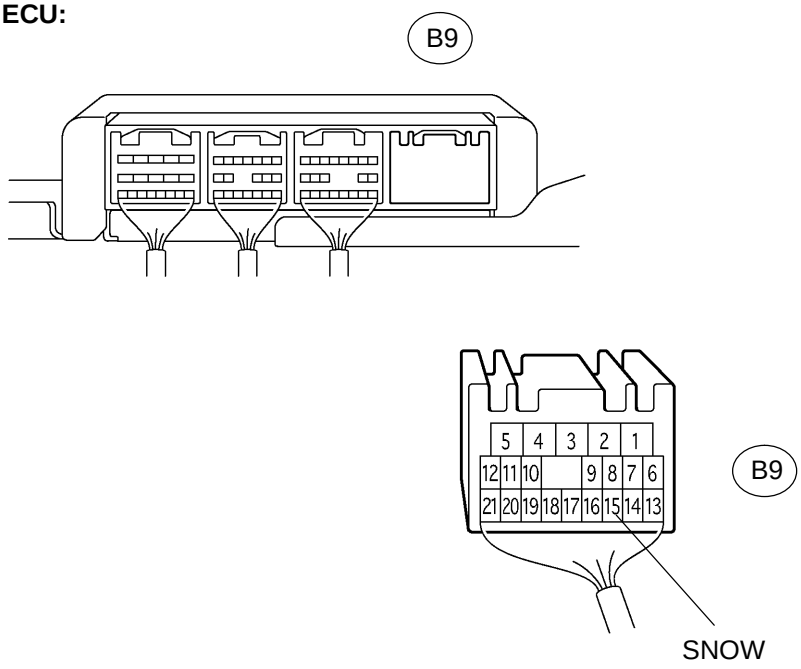
4	CHECK HARNESS AND CONNECTOR(PATTERN SELECT SWITCH ASSY NO.1 - MULTIPLEX NETWORK BODY ECU)

(a) Connect the connector of pattern select switch (ECT SNOW switch).
(b) Disconnect the multiplex network body ECU connector.
(c) Measure the resistance between terminals SNOW of multiplex network body ECU and body ground.

Standard:

Switch Condition	Tester Connection	Specified Condition
Press continuously Pattern select switch	B9 - 15 (SNOW) - Body ground	Below 1 Ω
Release Pattern select switch		10 kΩ or higher

Multiplex Network Body ECU:
Back Side:



NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01-36)**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05-904)