

Last Modified: 12-21-2017	6.8:8.0.48	Doc ID: RM100000000T2YW
Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: AE80F AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSMISSION SYSTEM: Pattern Select Switch 2nd Start Mode Circuit; 2016 - 2018 MY LX570 [09/2015 -]		

Pattern Select Switch 2nd Start Mode Circuit

DESCRIPTION

When 2nd start mode is selected with the ECT 2nd switch (integration control and panel assembly), the ECM controls the shift solenoid valves and the transmission starts from 2nd gear.

WIRING DIAGRAM

Refer to Pattern Select Switch Sport Mode Circuit (See page [INFO](#)).

PROCEDURE

1.	DRIVING TEST
----	--------------

HINT:
The driving test should be performed on a paved road (nonskid road).

- (a) Start the engine.
- (b) Turn the ECT 2nd 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 2nd switch on (2nd start mode) and perform the same check as above.

When driving the vehicle with the 2nd start mode on and off, check that there is a difference in acceleration.

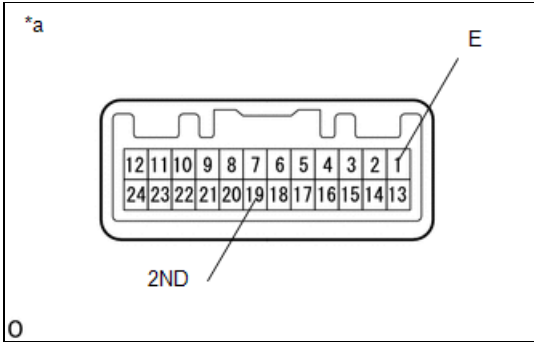
OK:
There is a difference in acceleration.

OK ▶ PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

NG
▼

2.	INSPECT ECT 2ND SWITCH (INTEGRATION CONTROL AND PANEL ASSEMBLY)
----	---

- (a) Remove the integration control and panel assembly (See page [INFO](#)).



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

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
19 (2ND) - 1 (E)	ECT 2nd switch on	Below 1 Ω

10 (2ND) 1 (E)	ECT 2nd switch-off	10 k Ω or higher
TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION

Text in Illustration

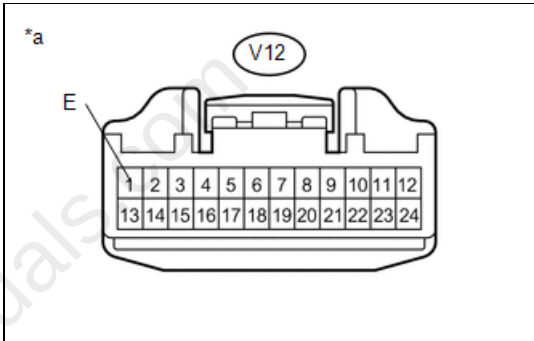
*a	Component without harness connected (Integration Control and Panel Assembly)
----	---

NG▶ REPLACE INTEGRATION CONTROL AND PANEL ASSEMBLY

OK
▼

3.	CHECK HARNESS AND CONNECTOR (INTEGRATION CONTROL AND PANEL ASSEMBLY - BODY GROUND)
----	--

(a) Disconnect the integration control and panel assembly connector.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
V12-1 (E) - Body ground	Always	Below 1 Ω

Text in Illustration

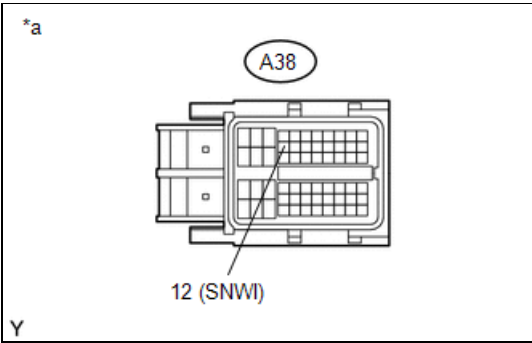
*a	Front view of wire harness connector (to Integration Control and Panel Assembly)
----	---

NG▶ REPAIR OR REPLACE HARNESS OR CONNECTOR

OK
▼

4.	CHECK HARNESS AND CONNECTOR (INTEGRATION CONTROL AND PANEL ASSEMBLY - ECM)
----	--

(a) Disconnect the ECM connector.



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

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A38-12 (SNWI) - Body ground	ECT 2nd switch on	Below 1 Ω
A38-12 (SNWI) - Body ground	ECT 2nd switch off	10 k Ω or higher

Text in Illustration

*a	Front view of wire harness connector (to ECM)
-----------	--

OK ▶ PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

NG ▶ REPAIR OR REPLACE HARNESS OR CONNECTOR

