

Last Modified: 12-21-2017	6.8:8.0.48	Doc ID: RM100000000T2XW
Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: AE80F AUTOMATIC TRANSMISSION / TRANSAXLE: SHIFT LEVER: ON-VEHICLE INSPECTION; 2016 - 2018 MY LX570 [09/2015 -]		

ON-VEHICLE INSPECTION

PROCEDURE

1. INSPECT SHIFT LEVER POSITION

- When moving the shift lever from P to R with the engine switch on (IG) and the brake pedal depressed, make sure that it moves smoothly and correctly into position.
 - Check that the shift lever does not stop when moving the shift lever from R to P, and check that the shift lever does not stick when moving the shift lever from D to S.
 - Start the engine and make sure that the vehicle moves forward after moving the shift lever from N to D and moves rearward after moving the shift lever to R.
- If the operation cannot be performed as specified, inspect the park/neutral position switch assembly and check the shift lever assembly installation condition.

2. CHECK SHIFT LOCK OPERATION

- Move the shift lever to P.
- Turn the engine switch off.
- Check that the shift lever cannot be moved from P.
- Turn the engine switch on (IG), depress the brake pedal and check that the shift lever can be moved to other positions.

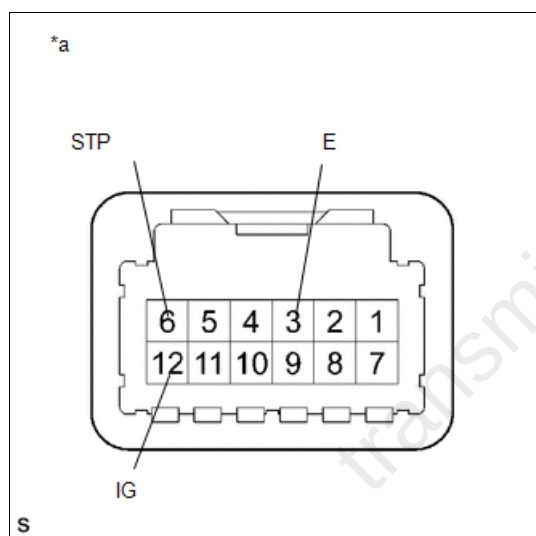
If the operation cannot be done as specified, inspect the shift lever assembly and shift lock control unit.

3. CHECK SHIFT LOCK RELEASE BUTTON OPERATION

- When operating the shift lever with the shift lock release button pressed, check that the lever can be moved to any position.

If the operation cannot be performed as specified, check the shift lever assembly.

4. CHECK SHIFT LOCK CONTROL ECU



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

Text in Illustration

*a	Component with harness connected (Shift Lock Control ECU)
----	--

HINT:

Do not disconnect the shift lock control ECU connector.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
12 (IG) - 3 (E)	Engine switch on (IG)	11 to 14 V
	Engine switch off	Below 1 V
6 (STP) - 3 (E)	Depress brake pedal	11 to 14 V
	Release brake pedal	Below 1 V

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

Text in Illustration

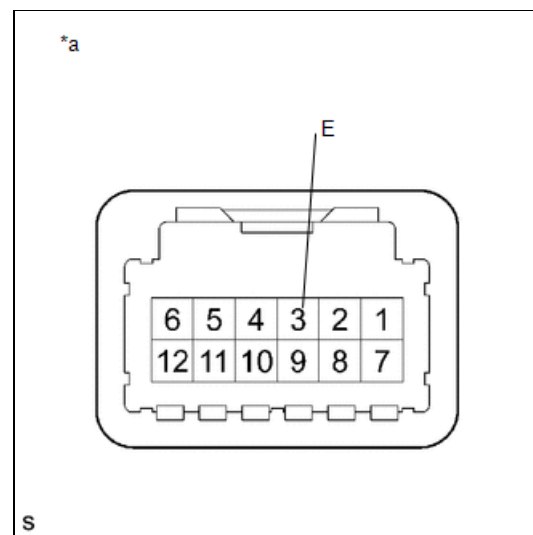
*a	Component with harness connected (Shift Lock Control ECU)
----	--

HINT:

Do not disconnect the shift lock control ECU connector.

Standard Resistance:

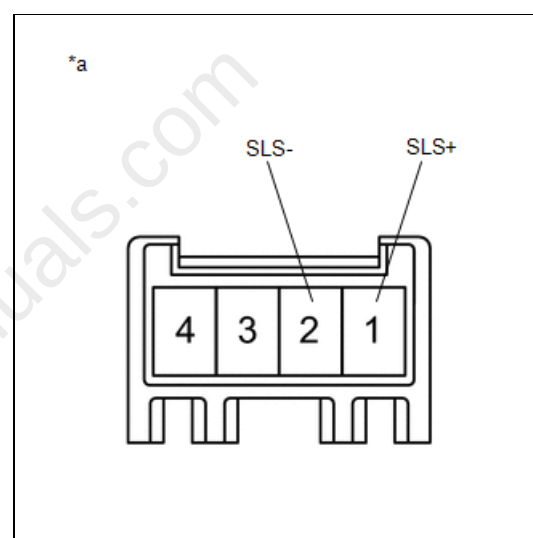
TESTER CONNECTION	CONDITION	SPECIFIED VALUE
3 (E) - Body ground	Always	Below 1 Ω



(c) Disconnect the shift lock solenoid connector from the shift lock control ECU.

Text in Illustration

*a	Component with harness connected (Shift Lock Control ECU)
----	--



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

HINT:

Do not disconnect the shift lock control ECU connector.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 (SLS+) - 2 (SLS-)	Engine switch off	Below 1 V
1 (SLS+) - 2 (SLS-)	Engine switch on (IG)	Below 1 V
	Engine switch on (IG) and brake pedal depressed	11 to 14 V

If the result is not as specified, replace the shift lever assembly.