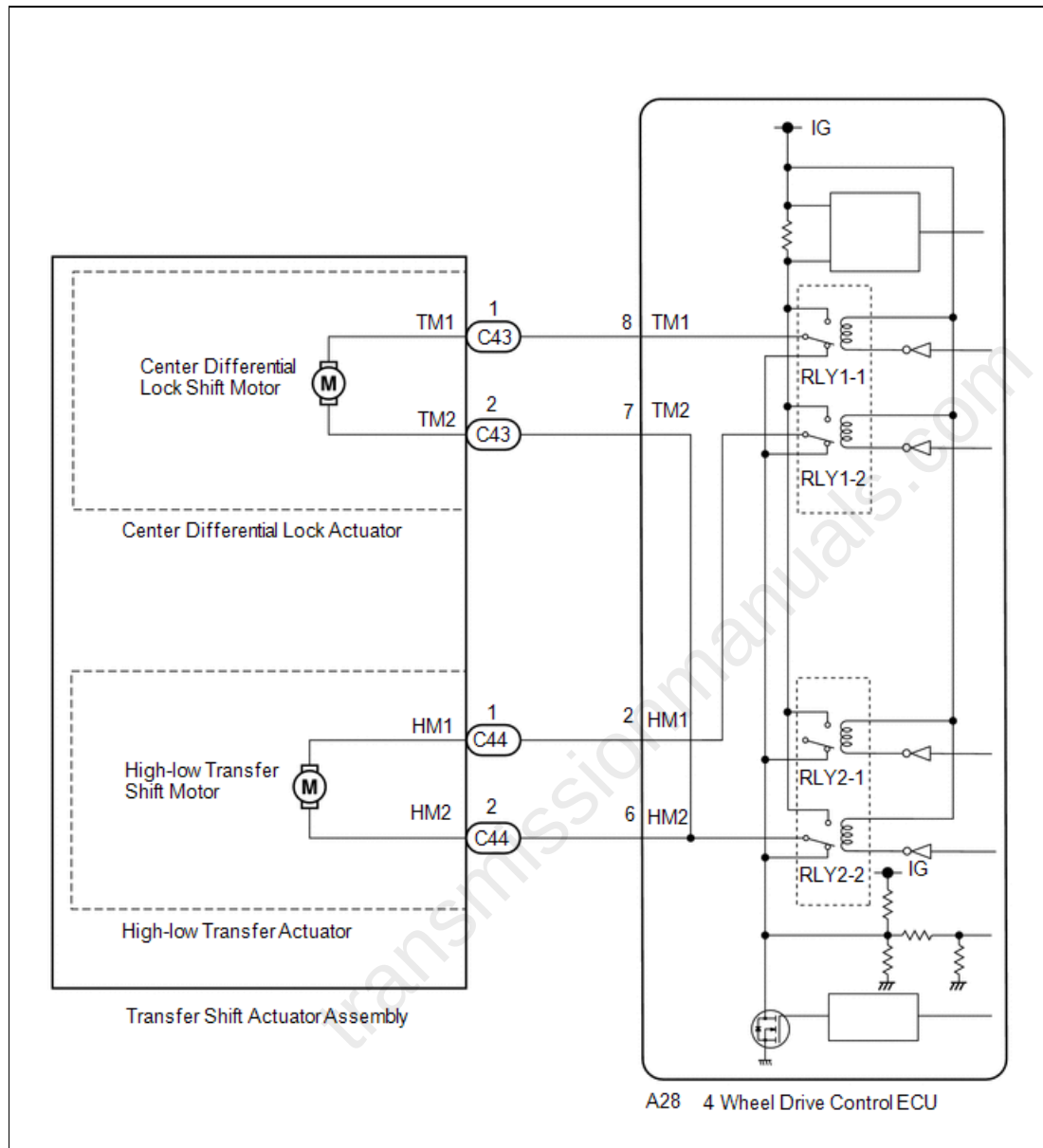
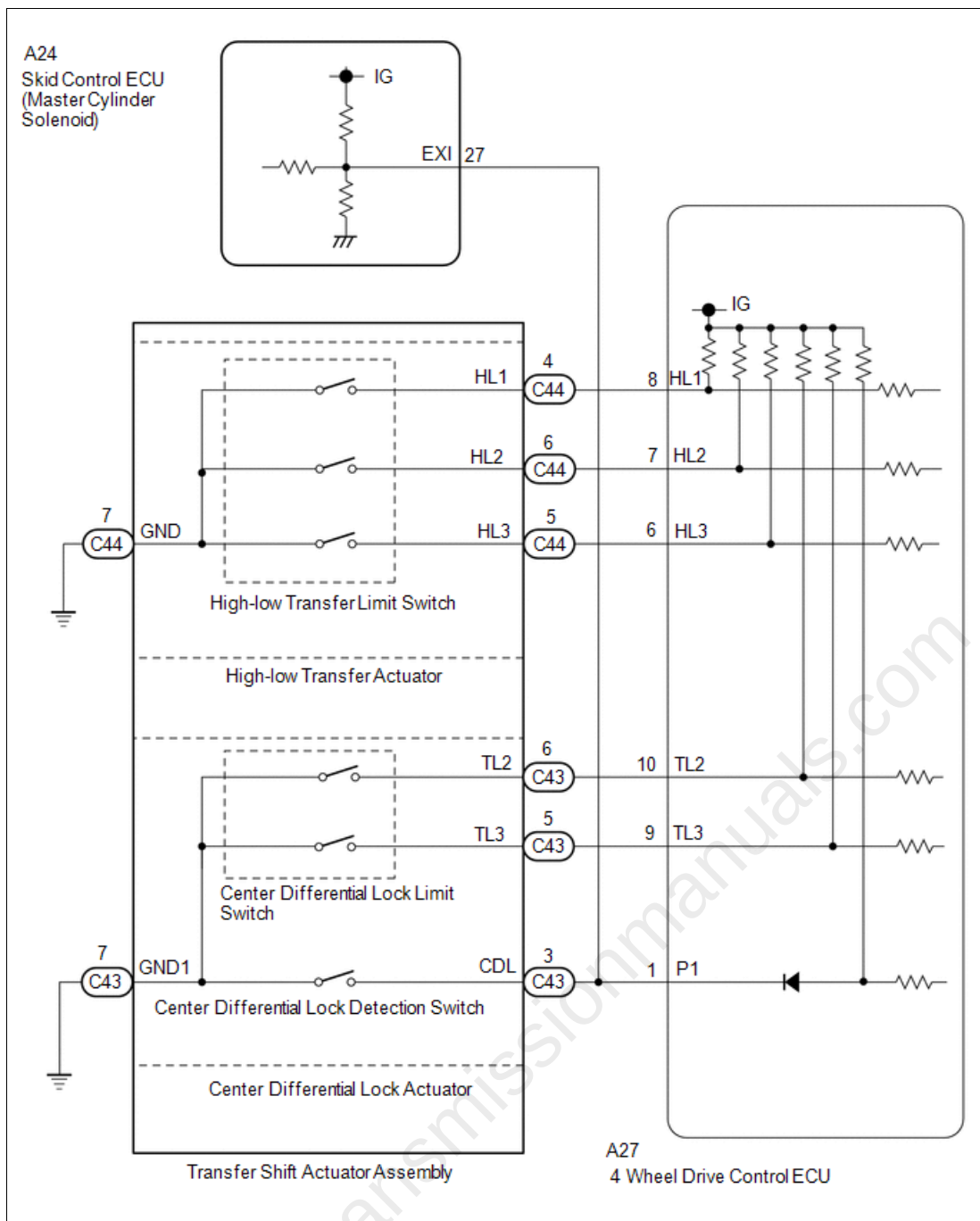


Last Modified: 12-21-2017	6.8:8.0.48	Doc ID: RM100000000T30F
Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: JF2A TRANSFER / 4WD / AWD: TRANSFER SYSTEM: Shift Motor Circuit; 2016 - 2018 MY LX570 [09/2015 -]		

Shift Motor Circuit

WIRING DIAGRAM





CAUTION / NOTICE / HINT

NOTICE:

When the vehicle is stopped, mode switching may be unavailable due to the phase of the transfer assembly powertrain. There is no malfunction if mode switching is available after the vehicle is moved.

PROCEDURE

1.	CONFIRM PROBLEM SYMPTOM
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(a) Confirm the problem symptoms.

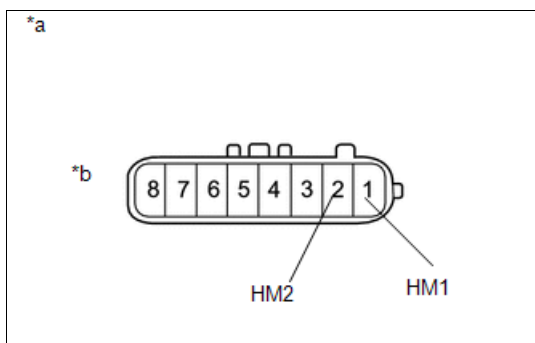
Result

RESULT	PROCEED TO
The 4LO indicator light continues to blink after operation of the transfer position switch (integration control and panel assembly)	A
The center differential lock indicator light continues to blink after operation of the center differential lock switch (integration control and panel assembly)	B

Blinking: Blinks at 0.5 second intervals (0.5 seconds on and 0.5 seconds off)

A


2. INSPECT TRANSFER SHIFT ACTUATOR ASSEMBLY (HIGH-LOW TRANSFER SHIFT MOTOR)



- (a) Disconnect the C44 transfer shift actuator assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 (HM1) - 2 (HM2)	Always	1.5 to 100 Ω

Text in Illustration

*a	Component without harness connected (Transfer Shift Actuator Assembly)
*b	High-low Transfer Actuator Side

NG  **REPLACE TRANSFER SHIFT ACTUATOR ASSEMBLY**

OK


3. CHECK HARNESS AND CONNECTOR (4 WHEEL DRIVE CONTROL ECU - TRANSFER SHIFT ACTUATOR ASSEMBLY)

- (a) Disconnect the A28 4 wheel drive control ECU connector.
- (b) Disconnect the C44 transfer shift actuator assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A28-2 (HM1) - C44-1 (HM1)	Always	Below 1 Ω
A28-6 (HM2) - C44-2 (HM2)	Always	Below 1 Ω
A28-2 (HM1) or C44-1 (HM1) - A28-6 (HM2) or C44-2 (HM2)	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK
▼

4. CHECK HARNESS AND CONNECTOR (4 WHEEL DRIVE CONTROL ECU - TRANSFER SHIFT ACTUATOR ASSEMBLY)

- (a) Disconnect the A27 4 wheel drive control ECU connector.
- (b) Disconnect the C44 transfer shift actuator assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A27-8 (HL1) - C44-4 (HL1)	Always	Below 1 Ω
A27-7 (HL2) - C44-6 (HL2)	Always	Below 1 Ω
A27-6 (HL3) - C44-5 (HL3)	Always	Below 1 Ω
C44-7 (GND) - Body ground	Always	Below 1 Ω
A27-8 (HL1) or C44-4 (HL1) - Body ground	Always	10 kΩ or higher
A27-7 (HL2) or C44-6 (HL2) - Body ground	Always	10 kΩ or higher
A27-6 (HL3) or C44-5 (HL3) - Body ground	Always	10 kΩ or higher

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK
▼

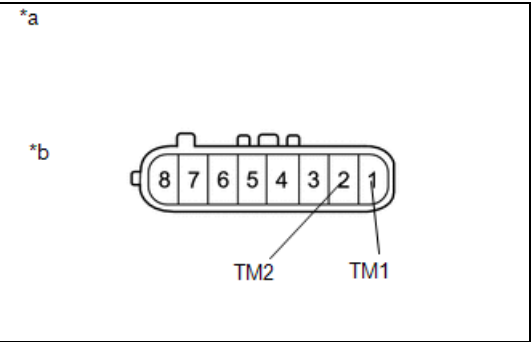
5. INSPECT TRANSFER SHIFT ACTUATOR ASSEMBLY (LIMIT SWITCH AND DETECTION SWITCH)

- (a) Turn the engine switch off.
- (b) Remove the transfer shift actuator assembly (See page [INFO](#)).
- (c) Check the high-low transfer limit switch of the transfer shift actuator assembly (See page [INFO](#)).

OK ► REPLACE 4 WHEEL DRIVE CONTROL ECU

NG ► REPLACE TRANSFER SHIFT ACTUATOR ASSEMBLY

6. INSPECT TRANSFER SHIFT ACTUATOR ASSEMBLY (CENTER DIFFERENTIAL LOCK SHIFT MOTOR)



- (a) Disconnect the C43 transfer shift actuator assembly connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 (TM1) - 2 (TM2)	Always	1.5 to 100 Ω

Text in Illustration

*a	Component without harness connected (Transfer Shift Actuator Assembly)
*b	Center Differential Lock Actuator Side

NG  **REPLACE TRANSFER SHIFT ACTUATOR ASSEMBLY**

OK



7.	CHECK HARNESS AND CONNECTOR (4 WHEEL DRIVE CONTROL ECU - TRANSFER SHIFT ACTUATOR ASSEMBLY)
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- (a) Disconnect the A28 4 wheel drive control ECU connector.
- (b) Disconnect the C43 transfer shift actuator assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A28-8 (TM1) - C43-1 (TM1)	Always	Below 1 Ω
A28-7 (TM2) - C43-2 (TM2)	Always	Below 1 Ω
A28-8 (TM1) or C43-1 (TM1) - A28-7 (TM2) or C43-2 (TM2)	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



8.	CHECK HARNESS AND CONNECTOR (4 WHEEL DRIVE CONTROL ECU - TRANSFER SHIFT ACTUATOR ASSEMBLY)
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- (a) Disconnect the A27 4 wheel drive control ECU connector.
- (b) Disconnect the C43 transfer shift actuator assembly connector.
- (c) Disconnect the A24 skid control ECU (master cylinder solenoid) connector.
- (d) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A27-10 (TL2) - C43-6 (TL2)	Always	Below 1 Ω
A27-9 (TL3) - C43-5 (TL3)	Always	Below 1 Ω
A27-1 (P1) - C43-3 (CDL)	Always	Below 1 Ω
C43-7 (GND1) - Body ground	Always	Below 1 Ω
A27-10 (TL2) or C43-6 (TL2) - Body ground	Always	10 k Ω or higher
A27-9 (TL3) or C43-5 (TL3) - Body ground	Always	10 k Ω or higher
A27-1 (P1) or C43-3 (CDL) - Body ground	Always	10 k Ω or higher

NG ▶ REPAIR OR REPLACE HARNESS OR
CONNECTOR

OK
▼

9.	INSPECT TRANSFER SHIFT ACTUATOR ASSEMBLY (LIMIT SWITCH AND DETECTION SWITCH)
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- (a) Turn the engine switch off.
- (b) Remove the transfer shift actuator assembly (See page [INFO](#)).
- (c) Check the center differential lock limit switch and center differential lock detection switch of the transfer shift actuator assembly (See page [INFO](#)).

OK ▶ REPLACE 4 WHEEL DRIVE CONTROL
ECU

NG ▶ REPLACE TRANSFER SHIFT ACTUATOR
ASSEMBLY

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