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Model Year Start: 2013	Model: LX570	Prod Date Range: [01/2012 -     ]
Title: BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS: VEHICLE STABILITY CONTROL SYSTEM: Turn Assist Indicator Light Circuit; 2013 MY LX570 [01/2012 -     ]		

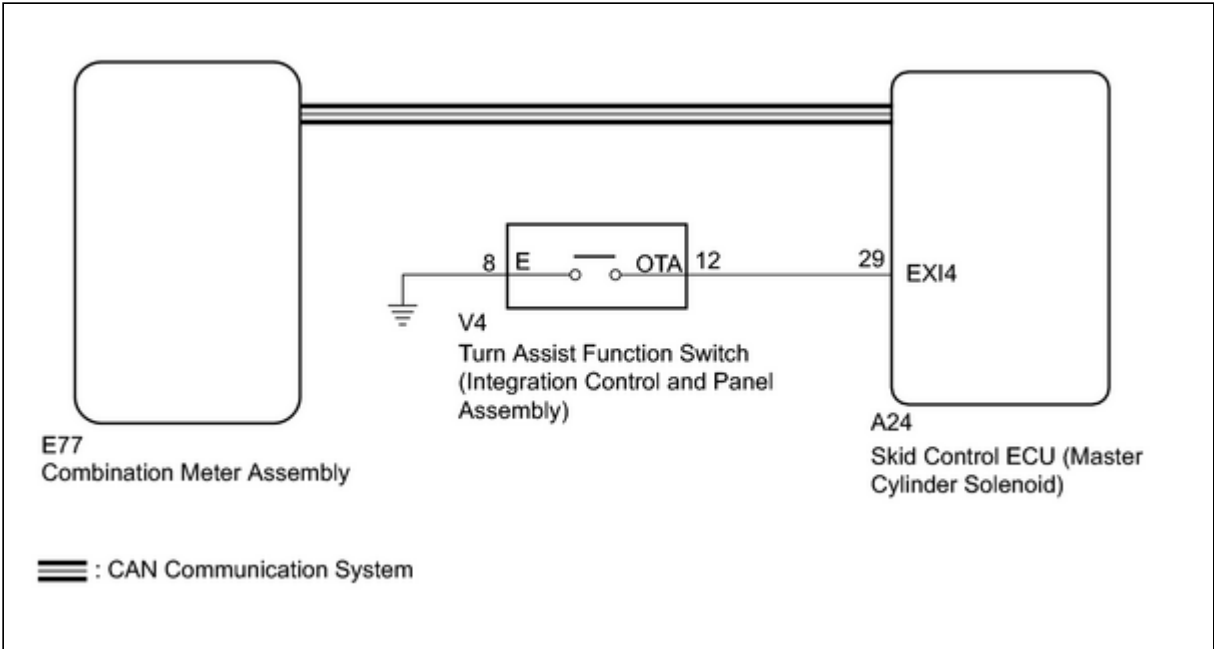
Turn Assist Indicator Light Circuit

DESCRIPTION

When any of the following conditions are met, the turn assist system becomes operable and the turn assist indicator light illuminates.

- Crawl Control is operating.
- The turn assist function switch (integration control and panel assembly) is on.
- The center differential is "free".
- The vehicle is moving at a speed of 10 km/h (6 mph) or less.
- The shift lever is not in P, R or N.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

After replacing the master cylinder solenoid, perform zero point calibration and store the system information

INFO .

PROCEDURE

1.	CHECK CAN COMMUNICATION LINE	INFO
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**NG** ► **GO TO CAN COMMUNICATION SYSTEM (HOW TO PROCEED WITH TROUBLESHOOTING)**

**OK**  
▼

<b>2.</b>	<b>CHECK DTC (CAN COMMUNICATION SYSTEM)</b> <b>INFO</b>
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**B** ► **GO TO CAN COMMUNICATION SYSTEM (HOW TO PROCEED WITH TROUBLESHOOTING)**

**A**  
▼

<b>3.</b>	<b>INSPECT TURN ASSIST FUNCTION SWITCH</b>
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(a) Remove the turn assist function switch (integration control and panel assembly) **INFO** .

(b) Inspect the turn assist function switch (integration control and panel assembly) **INFO** .

**NG** ► **REPLACE INTEGRATION CONTROL AND PANEL ASSEMBLY**

**OK**  
▼

<b>4.</b>	<b>CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU - TURN ASSIST FUNCTION SWITCH)</b>
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(a) Turn the engine switch off.

(b) Disconnect the A24 skid control ECU (master cylinder solenoid) connector.

(c) Disconnect the V4 turn assist function switch (integration control and panel assembly) connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A24-29 (EXI4) - V4-12 (OTA)	Always	Below 1 $\Omega$

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A24-29 (EXI4) - Body ground	Always	10 kΩ or higher
V4-8 (E) - Body ground	Always	Below 1 Ω

**NG** ► REPAIR OR REPLACE HARNESS OR CONNECTOR

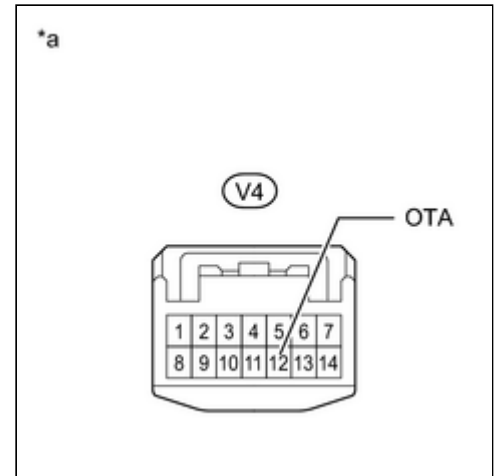
**OK**



**5. CHECK HARNESS AND CONNECTOR (SKID CONTROL ECU EXI4 CIRCUIT)**

- (a) Turn the engine switch off.  
 (b) Connect the skid control ECU (master cylinder solenoid) connector.

- (c) Disconnect the turn assist function switch (integration control and panel assembly) connector.



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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
V4-12 (OTA) - Body ground	Engine switch on (IG)	11 to 14 V

\*a

Front view of wire harness connector  
 (to Turn Assist Function Switch [Integration Control and Panel Assembly])

**NG** ► REPLACE MASTER CYLINDER SOLENOID

**OK** ► GO TO METER / GAUGE SYSTEM (HOW TO PROCEED WITH TROUBLESHOOTING)

