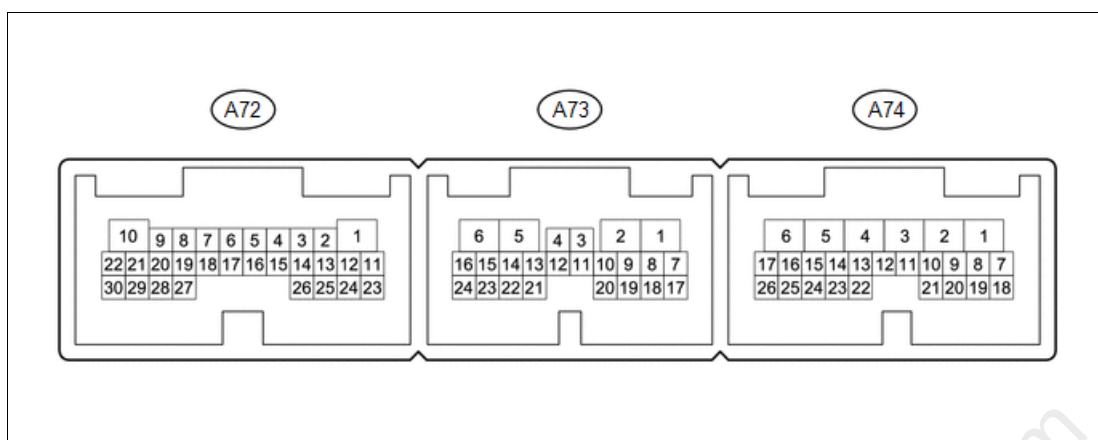


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Model Year Start: 2016	Model: LX570	Prod Date Range: [09/2015 -]
Title: AE80F AUTOMATIC TRANSMISSION / TRANSAXLE: AUTOMATIC TRANSMISSION SYSTEM: TERMINALS OF ECU; 2016 - 2018 MY LX570 [09/2015 -]		

TERMINALS OF ECU

1. TCM



HINT:

The standard voltage and resistance of each TCM terminal is shown in the table below.

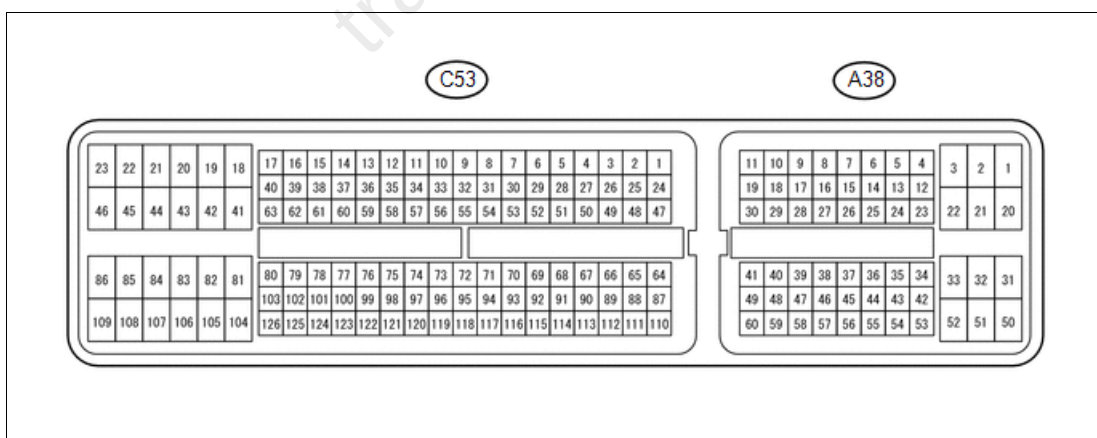
In the table, first follow the information under "Condition". Look under "Terminal No. (Symbol)" for the terminals to be inspected. The standard voltage or resistance between the terminals is shown under "Specified Condition".

Use the illustration above as a reference for the TCM terminals.

TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A72-1 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
A72-3 (SL2+) - A72-2 (SL2-)	LG - R	Shift solenoid valve SL2 signal	1st, 2nd, 3rd or 4th gear	Pulse generation
A72-5 (SLT+) - A72-4 (SLT-)	B - LG	Shift solenoid valve SLT signal	Engine idling	Pulse generation
A72-7 (SLU+) - A72-6 (SLU-)	R - L	Shift solenoid valve SLU signal	5th, 6th, 7th or 8th gear (Lock-up ON) 3rd, 4th, 5th, 6th, 7th or 8th gear (Flex lock-up ON)	Pulse generation
A72-9 (SL1+) - A72-8 (SL1-)	R - B	Shift solenoid valve SL1 signal	1st, 2nd, 3rd, 4th or 5th gear	Pulse generation
A72-10 (+B) - A72-1 (GND)	B - W-B	Power source of TCM	Engine switch on (IG)	11 to 14 V
A72-21 (IGSW) - A72-1 (GND)	B - W-B	Engine switch	Engine switch on (IG)	11 to 14 V
A72-23 (THO1) - A72-24 (E2)	B - G	No. 1 ATF temperature sensor signal	ATF temperature 115°C (239°F) or more	Below 1.5 V
A72-26 (THOC) - A72-25 (ETH2)	L - R	No. 2 ATF temperature sensor signal	ATF temperature 115°C (239°F) or more	Below 1.5 V
A72-28 (SC2) - A72-1 (GND)	V - W-B	Shift solenoid valve SC2 signal	Shift lever in S: S1 (1st gear) selected	11 to 14 V
A72-30 (SC1) - A72-1 (GND)	W - W-B	Shift solenoid valve SC1 signal	All gears	11 to 14 V
A73-1 (SP2B) - A72-1 (GND)	B - W-B	Power source for sensor (specific voltage)	Engine switch on (IG)	11 to 14 V
A73-2 (SP2O) - A72-1 (GND)	G - W-B	Transmission revolution sensor (SP2) signal	Vehicle speed 20 km/h (12 mph)	Pulse generation
A73-4 (SL5+) - A73-3 (SL5-)	W - R	Shift solenoid valve SL5 signal	2nd or 8th gear	Pulse generation

A72-7 (NTB) - A72-1 (GND) TERMINAL NO. (SYMBOL)	P - W-B WIRING COLOR	Power source for sensor (specific voltage) TERMINAL DESCRIPTION	Engine switch on (IG) CONDITION	11 to 14 V SPECIFIED CONDITION
A73-8 (NTO) - A72-1 (GND)	L - W-B	Transmission revolution sensor (NT) signal	Engine idling (shift lever in P or N)	Pulse generation
A73-14 (SL4+) - A73-5 (SL4-)	G - V	Shift solenoid valve SL4 signal	4th or 6th gear	Pulse generation
A73-16 (SL3+) - A73-6 (SL3-)	L - B	Shift solenoid valve SL3 signal	1st, 2nd, 4th, 5th, 6th or 8th gear	Pulse generation
A74-1 (CAN+) - A72-1 (GND)	R - W-B	CAN communication line	Engine switch on (IG)	Pulse generation
A74-2 (CAN-) - A72-1 (GND)	W - W-B	CAN communication line	Engine switch on (IG)	Pulse generation
A74-5 (R) - A72-1 (GND)	L - W-B	R shift position switch signal	Engine switch on (IG) and shift lever in R	11 to 14 V
			Engine switch on (IG) and shift lever not in R	Below 1 V
A74-6 (C) - A72-1 (GND)	P - W-B	Shift position switch signal	Engine switch on (IG) and shift lever in D, S, "+" or "-"	11 to 14 V
			Engine switch on (IG) and shift lever not in D, S, "+" or "-"	Below 1 V
A74-7 (EC) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
A74-11 (POUT) - A72-1 (GND)	W - W-B	Shift position switch signal	Engine switch on (IG) and shift lever in P	11 to 14 V
			Engine switch on (IG) and shift lever not in P	Below 1 V
A74-16 (PA) - A72-1 (GND)	GR - W-B	Shift position switch signal	Engine switch on (IG) and shift lever in P or N	11 to 14 V
			Engine switch on (IG) and shift lever not in P or N	Below 1 V
A74-17 (B) - A72-1 (GND)	R - W-B	Shift position switch signal	Engine switch on (IG) and shift lever in R, N, D, S, "+" or "-"	11 to 14 V
			Engine switch on (IG) and shift lever not in R, N, D, S, "+" or "-"	Below 1 V
A74-18 (SPD) - A72-1 (GND)	L - W-B	Vehicle speed signal from combination meter assembly signal	Vehicle driving	Pulse generation
A74-24 (L4) - A72-1 (GND)	R - W-B	L4 position signal	Engine switch on (IG) and transfer in L4	Below 1 V
			Engine switch on (IG) and transfer not in L4	11 to 14 V
A74-26 (A) - A72-1 (GND)	W - W-B	Shift position switch signal	Engine switch on (IG) and shift lever in P or R	11 to 14 V
			Engine switch on (IG) and shift lever not in P or R	Below 1 V

2. ECM



HINT:

The standard voltage of each ECM terminal is shown in the table below.

In the table, first follow the information under "Condition". Look under "Terminal No. (Symbol)" for the terminals to be inspected. The standard voltage between the terminals is shown under "Specified Condition".

Use the illustration above as a reference for the ECM terminals.

TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A38-2 (+B) - C53-81 (E1)	B - W-B	Power source of ECM	Engine switch on (IG)	11 to 14 V
A38-3 (+B2) - C53-81 (E1)	B - W-B	Power source of ECM	Engine switch on (IG)	11 to 14 V
A38-12 (SNWI) - C53-81 (E1)	P - W-B	ECT 2nd switch (integration control and panel assembly) signal	Engine switch on (IG) and ECT 2nd switch off	11 to 14 V
			Engine switch on (IG) and ECT 2nd switch on	Below 1 V
A38-27 (S) - C53-81 (E1)	W - W-B	S shift position switch signal	Engine switch on (IG) and shift lever in S	11 to 14 V
			Engine switch on (IG) and shift lever not in S	Below 1 V
A38-34 (PWMS) - C53-81 (E1)	GR - W-B	SPORT S/S+ switch (integration control and panel assembly) signal	Engine switch on (IG) and SPORT S/S+ switch off	11 to 14 V
			Engine switch on (IG) and SPORT S/S+ switch on	Below 1 V
A38-39 (SFTU) - C53-81 (E1)	V - W-B	Up-shift shift position switch signal	Engine switch on (IG) and shift lever in S	11 to 14 V
			Engine switch on (IG) and shift lever held in "+"	Below 1 V
			Engine switch on (IG) and "+" shift paddle operated (up-shift)*	Below 1 V
A38-47 (SFTD) - C53-81 (E1)	L - W-B	Down-shift position switch signal	Engine switch on (IG) and shift lever in S	11 to 14 V
			Engine switch on (IG) and shift lever held in "-"	Below 1 V
			Engine switch on (IG) and "-" shift paddle operated (down-shift)*	Below 1 V
A38-49 (SPCN) - C53-81 (E1)	L - W-B	NORMAL switch (integration control and panel assembly) signal	Engine switch on (IG) and NORMAL switch off	11 to 14 V
			Engine switch on (IG) and NORMAL switch on	Below 1 V

*: w/ Shift Paddle Switch