TOYOTA
SERVICE BULLETIN
Group: 09 No.: 05 Date: Mar, 17

Model: Kluger

Subject: Corrections to Repair Manual RM06K6E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
HEATING / AIR CONDITIONING	AIR CONDITIONING SYSTEM (for Automatic Air Conditioning System)	DATA LIST / ACTIVE TEST (2010/07-)
		B1479/79
	AIR CONDITIONING SYSTEM (for Manual Air Conditioning System)	DATA LIST / ACTIVE TEST (2010/07-)
		B1479/79

The revised pages listed above are attached.

(The corrected parts are indicated by arrows.)

This bulletin does not cause the Flat Rate Manual to be changed

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AC

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Blower Motor Level (Rear) (Blower Level-R)	Rear blower motor speed level / Min.; 0, Max.: 31	Increases in range between 0 and 31 as rear blower motor speed increases	-
Air Outlet Servo Pulse (R) (Air Out Pulse-R)	Rear air outlet control servo motor target pulse / Min.: 0, Max.: 255	Rr FACE: 83 (pulse) Rr B/L: 38 (pulse) Rr FOOT: 7 (pulse)	-
Air Mix Servo Targ Pulse (R) (Air Mix Pulse-R)	Rear air mix control servo motor target pulse / Min.: 0, Max.: 255	LHD: MAX COLD: 9 (pulse) MAX HOT: 54 (pulse) RHD: MAX COLD: 9 (pulse) MAX HOT: 54 (pulse)	-
Ambient Temp Sens (Rear) (R-Ambi Temp Sen)	Rear Evaporator temperature sensor / Min.: -29.7°C (-21.46°F) Max.: 59.55°C (139.19°F)	Actual evaporator temperature is displayed	-
Flow Sensor (Flow Sens)	A/C flow sensor / Min.: 0V, Max.: 5 V	Ignition switch on (IG): 0.3 to 4.7 V	A/C flow sensor is malfunctioning when a constant value below 0.3 V or higher than 4.7 V is displayed continuously for more than 4 seconds.
A/C Cutoff Signal (A/C Cutoff)	A/C control cutoff signal / OFF or ON	The ECM sends the air conditioning control cutoff signal displayed	[Corrected]
Number of Trouble Codes (#Codes)	Number of trouble codes / Min.: 0, Max.: 255	Number of DTCs displayed	-

2. PERFORM ACTIVE TEST

HINT:

Using the intelligent tester to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

(a) Connect the intelligent tester to the DLC3.

(b) Turn the ignition switch on (IG) and turn the intelligent tester on.

(c) Perform the Active Test by following the prompts on the tester.

Air Conditioner:

Tester Display	Test Part	Control Range	Diagnostic Note
Blower Motor	Blower motor	Min.: 0, Max.: 31	-
Magnetic Clutch Relay	Magnetic clutch relay	OFF, ON	-
Defogger Relay (Rear)	Defogger relay (Rear)	OFF, ON	-
Mirror Heater Relay	Mirror Heater	OFF, ON	-
Deicer Relay (Front)	Front window deicer	OFF, ON	-
Heater Active Level	Heater active level	Min.: 0, Max.: 3	-
Air Mix Servo Targ Pulse (D)	Air mix servo motor pulse (D side)	LHD: Min.: 5, Max.: 103 RHD: Min.: 7, Max.: 105	-

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(e) Check the value(s) by referring to the table below.

Air Conditioner

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Flow Sensor	A/C flow sensor / Min.: 0 V Max.: 5 V	Ignition switch on (IG): 0.3 to 4.7 V	A/C flow sensor is malfunctioning when a constant value below 0.3 V or higher than 4.7 V is displayed continuously for more than 4 seconds.

AC

OK:

The display is as specified in the Normal Condition column.

Result

Result	Proceed to
OK (When troubleshooting according to Problem Symptoms Table)	A
OK (When troubleshooting according to the DTC)	B
NG (When a constant value below 0.3 V or higher than 4.7 V is displayed continuously for more than 4 seconds)	C

B → **REPLACE AIR CONDITIONING AMPLIFIER**

C → **Go to step 3**

A

2 READ VALUE USING INTELLIGENT TESTER

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch on (IG).
(c) Turn the intelligent tester on.
(d) Enter the following menus: Body Electrical / Air Conditioner / Data List.
(e) Check the value(s) by referring to the table below.

Air Conditioner

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
A/C Cutoff Signal	A/C control cutoff signal / OFF or ON	The ECM sends the air conditioning control cutoff signal displayed	[Corrected]

Result

Result	Proceed to
Value in Data List indicates OFF	A
Value in Data List indicates ON	B

B → **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

A

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Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Adjusted Ambient Temp (Ambi Temp)	Adjusted ambient temperature / Min.: -30.8°C (-23.44°F) Max.: 50.8°C (123.44°F)	-	-
Engine Coolant Temp (Coolant Temp)	Engine coolant temperature sensor / Min.: 1.3°C (34.34°F) Max.: 90.55°C (194.99°F)	Actual engine coolant temperature is displayed	-
Air Mix Servo Targ Pulse (D) (Air Mix Pulse-D)	Driver side air mix servo motor target pulse / Min.: 0, Max.: 255	LHD: MAX COLD: 105 (pulse) MAX HOT: 7 (pulse) RHD: MAX COLD: 5 (pulse) MAX HOT: 103 (pulse)	-
Air Outlet Servo Pulse (D) (Air Out Pulse-D)	Driver side air outlet servo motor target / Min.: 0, Max.: 255	FACE: 8 (pulse) B/L: 30 (pulse) FOOT: 67 (pulse) FOOT/DEF: 80 (pulse) DEF: 97 (pulse)	-
Air Inlet Damper Targ Pulse (A/I Damp Targ Pls)	Air inlet damper target pulse / Min.: 0, Max.: 255	RECIRCULATION: 7 (pulse) FRESH: 28 (pulse)	-
Evaporator Fin Thermistor (Evap Fin Temp)	Evaporator temperature sensor / Min.: -29.7°C (-21.46°F) Max.: 59.55°C (139.19°F)	Actual evaporator temperature is displayed	-
Evaporator Target Temp (Evap Tag Temp)	Evaporator target temperature / Min.: -327.68°C (-557.82°F) Max.: 327.68°C (621.81°F)	Evaporator target temperature displayed	-
Regulator Pressure Sensor (Reg Press Sens)	Regulator pressure sensor / Min.: -0.45668 MPaG Max.: 3.29437 MPaG	Actual regulator pressure is displayed	-
Regulator Control Current (Reg Ctrl Currnt)	Regulator control current / Min.: 0 A Max.: 0.997 A	Value changes between 0 A and 0.997 A in accordance with compressor and magnetic clutch operation	-
Blower Motor Level (Rear) (Blower Level-R)	Rear blower motor speed level / Min.: 0, Max.: 31	Increases in range between 0 and 31 as rear blower motor speed increases	-
Air Outlet Servo Pulse (R) (Air Out Pulse-R)	Rear air outlet control servo motor target pulse / Min.: 0, Max.: 255	Rr FACE: 83 (pulse) Rr B/L: 38 (pulse) FOOT: 7 (pulse)	-
Air Mix Servo Targ Pulse (R) (Air Mix Pulse-R)	Rear air mix control servo motor target pulse / Min.: 0, Max.: 255	LHD: MAX COLD: 9 (pulse) MAX HOT: 54 (pulse) RHD: MAX COLD: 9 (pulse) MAX HOT: 54 (pulse)	-
Ambient Temp Sens (Rear) (R-Evap Temp Sen)	Rear Evaporator temperature sensor / Min.: -29.7°C (-21.46°F) Max.: 59.55°C (139.19°F)	Actual evaporator temperature is displayed	-
Flow Sensor (Flow Sens)	A/C flow sensor / Min.: 0 V, Max.: 5 V	Ignition switch on (IG): 0.3 to 4.7 V	A/C flow sensor is malfunctioning when a constant value below 0.3 V or higher than 4.7 V is displayed continuously for more than 4 seconds.
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Air Conditioner

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Air Conditioner

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