TOYOTA
SERVICE BULLETIN
Group: 09 No.: 17 Date: May, 17

Model: **Camry ACV40, Aurion GSV40**

Subject: Corrections to Repair Manual RM02N2EQ

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
METER	METER / GAUGE SYSTEM	DATA LIST / ACTIVE TEST (2006/06-2006/10)
		DATA LIST / ACTIVE TEST (2006/10-)
		Fuel Receiver Gauge Malfunction (2006/06-2006/10)
		Fuel Receiver Gauge Malfunction (2006/10-2009/06)
		Fuel Receiver Gauge Malfunction (2009/06-)

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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(f) Enter following menus:
(1) for Combination Meter: Body / Combination Meter / Data List
(2) for ABS/VSC/TRC: Chassis / ABS/VSC/TRC / Data List
(3) for Engine: Power train / Engine / Data List

(g) Check values by referring to the table below.

ME

Combination Meter:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
ODO/TRIP Change SW	ODO/TRIP switch is ON/OFF	ON: Switch is pushed	-
		OFF: Switch is released	-
P-Seatbelt Buckle SW (*1)	Front passenger buckle switch is ON/OFF	ON: Seat belt is unfastened	-
		OFF: Seat belt is fastened	-
Vehicle Speed Meter	Vehicle speed/Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph)	Almost same as actual vehicle speed (When driving)	If data received from the skid control ECU exceeds the range that can be displayed on the meter, the meter continues to display the maximum value of the range.
Engine Rpm	Engine speed/Min.: 0 rpm, Max.: 12,750 rpm	Almost same at the meter rpm (When engine is running)	If data received from the ECM exceeds the range that can be displayed on the meter, the meter continues to display the maximum value of the range.
Coolant Temperature	Engine coolant temperature 0°C (32°F) to 127.5°C (261.5°F)	After warming up: 78 to 105°C (172 to 221°F) (*2) After warning up: 95 to 105°C (203 to 221°F) (*1)	• If -40°C (-40°F): sensor circuit open • If 140°C (284°F) or more: sensor circuit shorted
Light Control Switch	Light control switch is ON/OFF	ON: Light control switch is pushed	-
		OFF: Light control switch is released	-
Multi Display Select Switch	MODE switch in the steering pad is ON/OFF	ON: Mode switch is ON	-
		OFF: Mode switch is OFF	-
+B Voltage Value	Battery voltage/Min.: 0 V, Max.: 25.5 V	10 to 14 V	-
Fuel Input	Fuel input signal Min.: 0, Max. 127.5	Fuel gauge indicates (F): 64.4 (L)	-
		Fuel gauge indicates (3/4): 52.5 (L)	-
		Fuel gauge indicates (1/2): 35.0 (L)	[Corrected] -
		Fuel gauge indicates (1/4): 17.5 (L)	-
		Fuel gauge indicates (E): 7.0 (L)	-
Ambient Temperature	Outside temperature: Min.: -40°C (-40°F), Max.: 87.5°C (189.5°F)	Almost same as actual outside temperature	The temperature displayed on the multi-information display/Min.: -30°C (-22°F), Max.: 50°C (122°F)
Communication ECM/Meter DTC 1/2/3	The history of communication error/Unrec, Rec	Unrec: Not occurred	-
		Rec: Occurred	
ECM ODO (History 1/2/3)	Value when DTC is output Min.: 0, Max.: 999999	-	-
Communication ABS/Meter DTC 1/2/3	The history of communication error/Unrec, Rec	Unrec: Not occurred	-
		Rec: Occurred	
ABS/VSC ODO (History 1/2/3)	Value when DTC is output Min.: 0, Max.: 999999	-	-
Key Remind Sound	The cycle of the key reminder warning buzzer is Fast, Normal, Slow	The customised setting of the cycle of the key reminder warning buzzer is displayed.	-

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(2) for ABS/VSC/TRC: Chassis / ABS/VSC/TRC / Data List
(3) for Engine: Power train / Engine / Data List

(g) Check values by referring to the table below.

Combination Meter:

ME

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
ODO/TRIP Change SW	ODO/TRIP switch is ON/OFF	ON: Switch is pushed	-
		OFF: Switch is released	-
P-Seatbelt Buckle SW (*1)	Front passenger buckle switch is ON/OFF	ON: Seat belt is unfastened	-
		OFF: Seat belt is fastened	-
Vehicle Speed Meter	Vehicle speed/Min.: 0 km/h (0 mph), Max.: 255 km/h (158 mph)	Almost same as actual vehicle speed (When driving)	If data received from the skid control ECU exceeds the range that can be displayed on the meter, the meter continues to display the maximum value of the range.
Engine Rpm	Engine speed/Min.: 0 rpm, Max.: 12,750 rpm	Almost same at the meter rpm (When engine is running)	If data received from the ECM exceeds the range that can be displayed on the meter, the meter continues to display the maximum value of the range.
Coolant Temperature	Engine coolant temperature 0°C (32°F) to 127.5°C (261.5°F)	After warming up: 78 to 105°C (172 to 221°F) (*2) After warning up: 95 to 105°C (203 to 221°F) (*1)	• If -40°C (-40°F): sensor circuit open • If 140°C (284°F) or more: sensor circuit shorted
Light Control Switch	Light control switch is ON/OFF	ON: Light control switch is pushed	-
		OFF: Light control switch is released	-
Multi Display Select Switch	MODE switch in the steering pad is ON/OFF	ON: Mode switch is ON	-
		OFF: Mode switch is OFF	-
+B Voltage Value	Battery voltage/Min.: 0 V, Max.: 25.5 V	10 to 14 V	-
Fuel Input (*3)	Fuel input signal Min.: 0 (0 L), Max. 127.5 (70 L)	Fuel gauge indicates (F): 64.4 (L)	-
		Fuel gauge indicates (3/4): 52.5 (L)	-
		Fuel gauge indicates (1/2): 35.0 (L)	[Corrected] -
		Fuel gauge indicates (1/4): 17.5 (L)	-
		Fuel gauge indicates (E): 7.0 (L)	-
Fuel Input (*4)	Fuel input signal Min.: 0 (0 L), Max. 127.5 (70 L)	Fuel gauge indicates (F): 62.9 (L)	-
		Fuel gauge indicates (3/4): 52.5 (L)	-
		Fuel gauge indicates (1/2): 35.0 (L)	[Corrected] -
		Fuel gauge indicates (1/4): 17.5 (L)	-
		Fuel gauge indicates (E): 7.5 (L)	-
Ambient Temperature	Outside temperature: Min.: -40°C (-40°F), Max.: 87.5°C (189.5°F)	Almost same as actual outside temperature	The temperature displayed on the multi-information display/Min.: -30°C (-22°F), Max.: 50°C (122°F)
Communication ECM/Meter DTC 1/2/3	The history of communication error/Unrec, Rec	Unrec: Not occurred	-
		Rec: Occurred	
ECM ODO (History 1/2/3)	Value when DTC is output Min.: 0, Max.: 999999	-	-
Communication ABS/Meter DTC 1/2/3	The history of communication error/Unrec, Rec	Unrec: Not occurred	-
		Rec: Occurred	

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2	PERFORM ACTIVE TEST USING GTS

(a) Connect the GTS to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Turn the tester on.
(d) Enter the following menus: Body / Combination Meter / Active Test.
(e) Check the operation by referring to the table below.

Combination Meter:

Tester Display	Test Part	Control Range	Normal Condition
Fuel Meter Operation	Fuel receiver gauge	EMPTY, 1/2, FULL	-

OK:
Needle indication is normal.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

3	READ VALUE USING GTS

(a) Connect the GTS to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Turn the tester on.
(d) Enter the following menus: Body / Combination Meter / Data List.
(e) Check the values by referring to the table below.

Combination Meter:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Fuel Input	Fuel input signal Min.: 0, Max.: 127.5	Fuel gauge indicates (F): 64.4 (L) Fuel gauge indicates (3/4): 52.5 (L) Fuel gauge indicates (1/2): 35.0 (L) Fuel gauge indicates (1/4): 17.5 (L) Fuel gauge indicates (E): 7.0 (L)	[Corrected] [Corrected] [Corrected]

OK:
Fuel value signal displayed on the tester is almost the same as needle indication.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

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(e) Check the operation by referring to the table below.

Combination Meter:

Tester Display	Test Part	Control Range	Normal Condition
Fuel Meter Operation	Fuel receiver gauge	EMPTY, 1/2, FULL	-

OK:

Needle indication is normal.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

3 READ VALUE USING GTS

(a) Connect the GTS to the DLC3.
(b) Ignition switch on (IG).
(c) Turn the tester on.
(d) Enter the following menus: Body / Combination Meter / Data List.
(e) Check the values by referring to the table below.

Combination Meter:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Fuel Input (*1)	Fuel input signal Min.: 0, Max.: 127.5	Fuel gauge indicates (F): 64.4 (L) Fuel gauge indicates (3/4): 52.5 (L) Fuel gauge indicates (1/2): 35.0 (L) Fuel gauge indicates (1/4): 17.5 (L) Fuel gauge indicates (E): 7.0 (L)	[Corrected] - [Corrected] [Corrected]
Fuel Input (*2)	Fuel input signal Min.: 0 (0 L), Max.: 127.5 (70 L)	Fuel gauge indicates (F): 62.9 (L) Fuel gauge indicates (3/4): 52.5 (L) Fuel gauge indicates (1/2): 35.0 (L) Fuel gauge indicates (1/4): 17.5 (L) Fuel gauge indicates (E): 7.5 (L)	- [Corrected]

*1: for 2AZ-FE
*2: for 2GR-FE

OK:

Fuel value signal displayed on the tester is almost the same as needle indication.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

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(e) Check the operation by referring to the table below.

Combination Meter:

Tester Display	Test Part	Control Range	Normal Condition
Fuel Meter Operation	Fuel receiver gauge	EMPTY, 1/2, FULL	-

OK:

Needle indication is normal.

ME

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

3 READ VALUE USING GTS

(a) Connect the GTS to the DLC3.
(b) Ignition switch on (IG).
(c) Turn the tester on.
(d) Enter the following menus: Body / Combination Meter / Data List.
(e) Check the values by referring to the table below.

Combination Meter:

Tester Display	Measurement Item/Range	Normal Condition	Diagnostic Note
Fuel Input (*1)	Fuel input signal Min.: 0, Max.: 127.5	Fuel gauge indicates (F): 64.4 (L) Fuel gauge indicates (3/4): 52.5 (L) Fuel gauge indicates (1/2): 35.0 (L) Fuel gauge indicates (1/4): 17.5 (L) Fuel gauge indicates (E): 7.0 (L)	[Corrected] - [Corrected] [Corrected]
Fuel Input (*2)	Fuel input signal Min.: 0 (0 L), Max.: 127.5 (70 L)	Fuel gauge indicates (F): 62.9 (L) Fuel gauge indicates (3/4): 52.5 (L) Fuel gauge indicates (1/2): 35.0 (L) Fuel gauge indicates (1/4): 17.5 (L) Fuel gauge indicates (E): 7.5 (L)	- [Corrected]

*1: for 2AZ-FE
*2: for 2GR-FE

OK:

Fuel value signal displayed on the tester is almost the same as needle indication.

NG → **REPLACE COMBINATION METER ASSEMBLY**

OK

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