SERVICE TRAINING AND PUBLICATION BULLETIN

No.: OB- Z342
010
Date : 2020/12/16

TRAINING	
PUBLICATION	■
INFORMATION	
ADVANCE ORDER	
OTHERS	

APPLICABLE COUNTRIES:

	ALL COUNTRIES		N. AMERICA	■	GENERAL COUNTRIES, EUROPE
	Other				

To: Service Manager

CORRECTION TO [x] REPAIR MANUAL

The following manual has revised service information:

Pub. No.: **RM00S5E** Pub. Name: **YARIS Repair Manual**

Section	Title	Paragraph
1NZ-FE ENGINE CONTROL SYSTEM	SFI SYSTEM	P0500 (2005/08 - 2006/01)
		P0500 (2006/01 -)
2NZ-FE ENGINE CONTROL SYSTEM	SFI SYSTEM	P0500 (2005/08 - 2006/01)
		P0500 (2006/01 -)

The revised pages listed above are attached.
(The corrected parts are indicated by arrows.)

Please attach the accompanying revised pages to the applicable pages in the manual above.

This Bulletin does not cause the Flat Rate Manual to be changed.

This bulletin is also available on the OASIS Global Service Information Center.
Inquiries : BM_correction_information@mta.mx.toyota.co.jp

KEEP IN BINDER TOGETHER WITH SERVICE PUBLICATIONS GUIDE

TOYOTA QUALITY SERVICE

TOYOTA MOTOR CORPORATION
SERVICE ENGINEERING DEPARTMENT
TECHNICAL SERVICE DIVISION
CUSTOMER FIRST PROMOTION GROUP

(e) Read the value displayed on the tester.

OK:
Vehicle speeds displayed on tester, speedometer display and actual vehicle speed are equal.

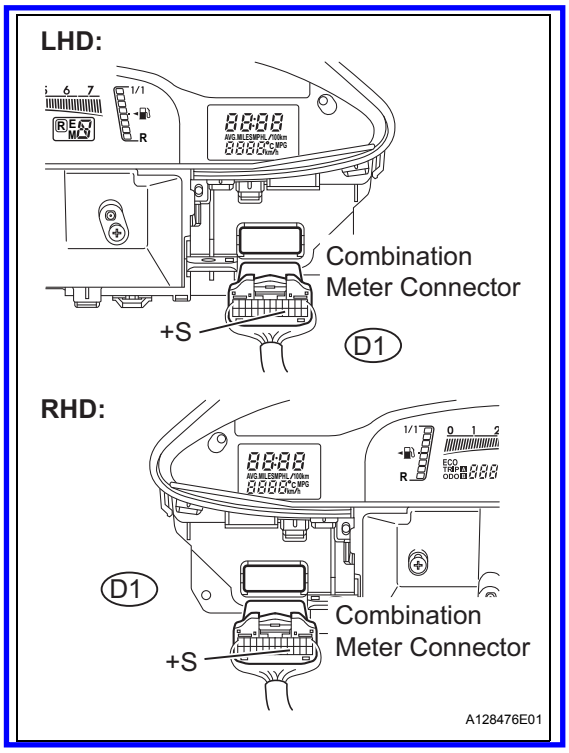
[Corrected]

OK → **CHECK FOR INTERMITTENT PROBLEMS**

ES

NG

3 CHECK COMBINATION METER ASSEMBLY (+S VOLTAGE)



(a) Disconnect the D1 combination meter connector.
(b) Turn the ignition switch on (IG).
(c) Measure the voltage between the terminal of the combination meter and the body ground.
Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	4.5 to 5.5 V

(d) Reconnect the combination meter connector.

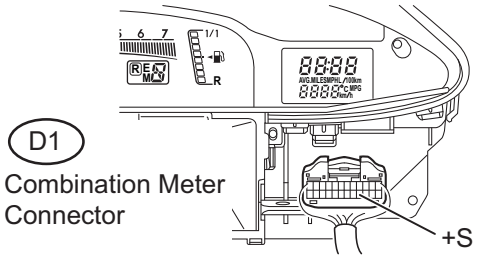
NG → **Go to step 5**

OK

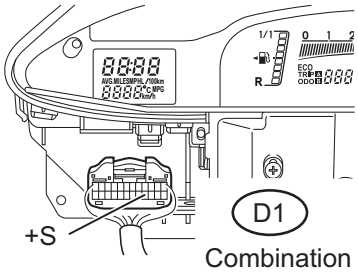
[Corrected]

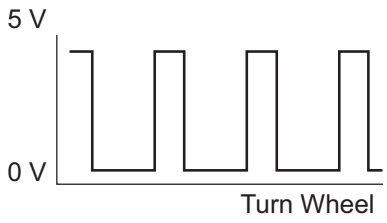
4	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL WAVEFORM)

LHD:



RHD:





A128477E01

(a) Shift the transmission gear selector lever to the neutral position.
(b) Jack up the vehicle.
(c) Turn the ignition switch on (IG).
(d) Measure the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 6**

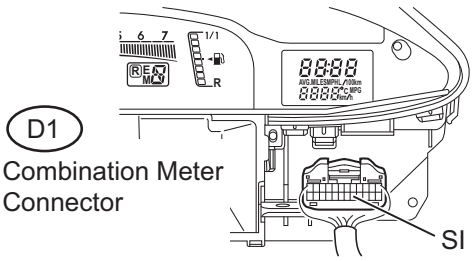
[Corrected]

OK

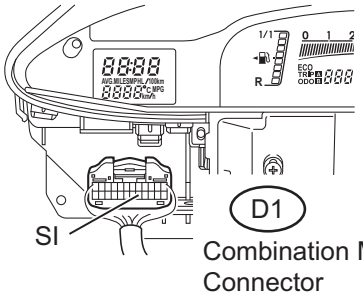
[Corrected]

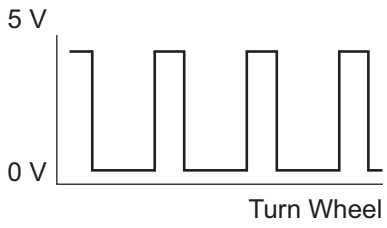
6	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL INPUT WAVEFORM)

LHD:



RHD:





A255883E03

(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
SI (D1-17) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 7**

OK

REPLACE COMBINATION METER ASSEMBLY

7	CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - SKID CONTROL ECU)

(a) Check harness and connector (w/ ABS for Sedan).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

[Added]

ES

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-26) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-26) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(b) Check harness and connector (w/ ABS for Hatchback).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-22) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-22) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(c) Check harness and connector (w/ ABS and VSC).
(1) Disconnect the A31 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A31-11) - SI (D1-17)	Always	Below 1 Ω
SP1 (A31-11) or SI (D1-17) - Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)

[Added]

(e) Read the value displayed on the tester.

[Corrected]

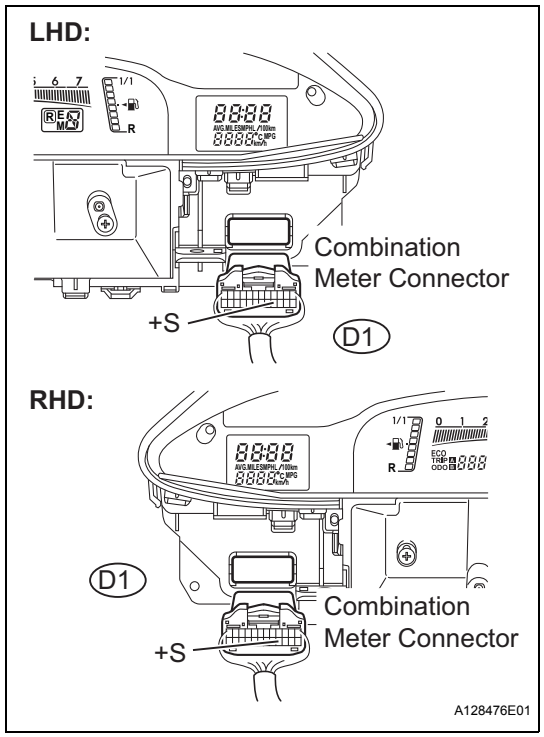
OK:
Vehicle speeds displayed on tester, speedometer display and actual vehicle speed are equal.

OK → **CHECK FOR INTERMITTENT PROBLEMS**

NG

ES

3 CHECK COMBINATION METER ASSEMBLY (+S VOLTAGE)



(a) Disconnect the D1 combination meter connector.
(b) Turn the ignition switch on (IG).
(c) Measure the voltage between the terminal of the combination meter and the body ground.
Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	4.5 to 5.5 V

(d) Reconnect the combination meter connector.

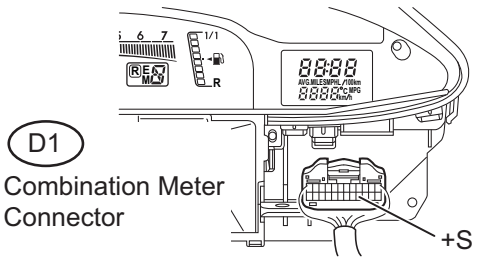
NG → **Go to step 5**

OK

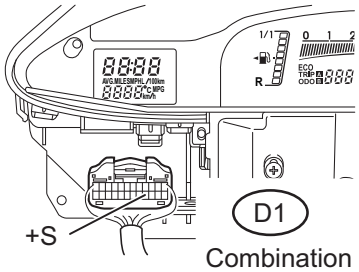
ES

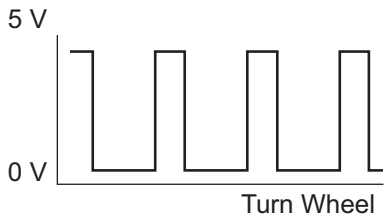
4	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL WAVEFORM)

LHD:



RHD:





A128477E01

(a) Shift the transmission gear selector lever to the neutral position.
(b) Jack up the vehicle.
(c) Turn the ignition switch on (IG).
(d) Measure the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 6**

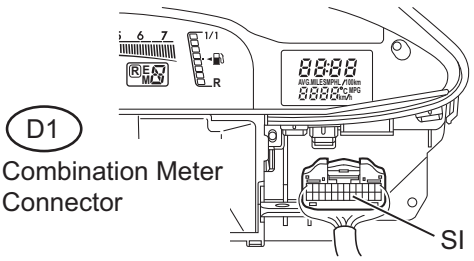
[Corrected]

OK

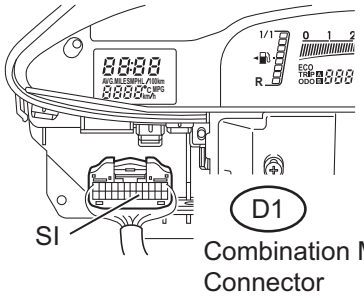
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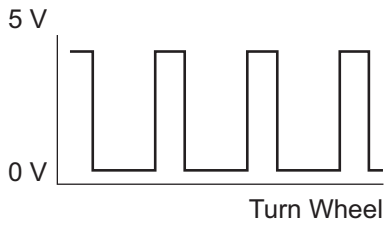
6	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL INPUT WAVEFORM)

LHD:



RHD:





A255883E03

(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
SI (D1-17) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 7**

OK

REPLACE COMBINATION METER ASSEMBLY

7	CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - SKID CONTROL ECU)

(a) Check harness and connector (w/ ABS for Sedan).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

[Added]

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-26) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-26) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(b) Check harness and connector (w/ ABS for Hatchback).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-22) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-22) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(c) Check harness and connector (w/ ABS and VSC).
(1) Disconnect the A31 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A31-11) - SI (D1-17)	Always	Below 1 Ω
SP1 (A31-11) or SI (D1-17) - Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)

[Added]

ES

(b) Turn the ignition switch on (IG) and turn the tester on.
(c) Select the following menu items: Powertrain / Engine and ECT/ Data List / Vehicle Speed.
(d) Drive the vehicle.
(e) Read the value displayed on the tester.

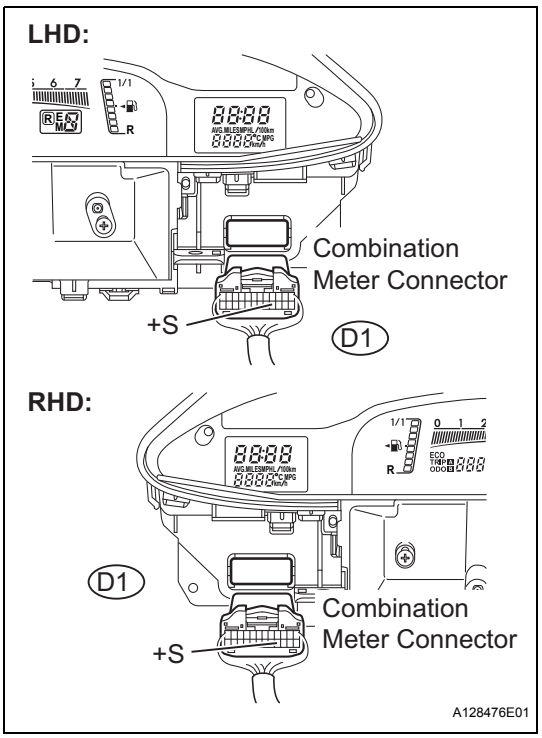
[Corrected]

OK:
Vehicle speeds displayed on tester, speedometer display and actual vehicle speed are equal.

OK → **CHECK FOR INTERMITTENT PROBLEMS**

NG

3	CHECK COMBINATION METER ASSEMBLY (+S VOLTAGE)



(a) Disconnect the D1 combination meter connector.
(b) Turn the ignition switch on (IG).
(c) Measure the voltage between the terminal of the combination meter and the body ground.
Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	4.5 to 5.5 V

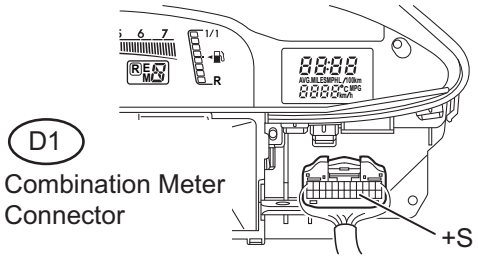
(d) Reconnect the combination meter connector.

NG → **Go to step 7**

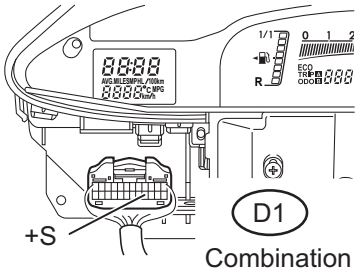
OK

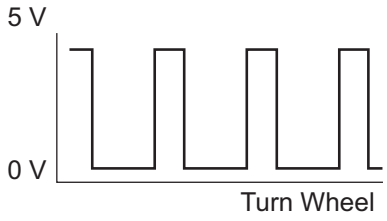
4	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL OUTPUT WAVEFORM)

LHD:



RHD:





A128477E01

(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
+S (D1-16) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

Result

Result	Proceed to
NG (w/ ABS)	A
NG (w/o ABS)	B
OK	C

B	**REPLACE COMBINATION METER ASSEMBLY**
C	**Go to step 7**

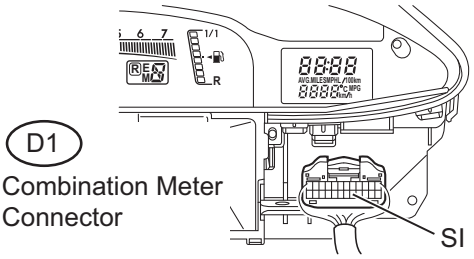
[Corrected]

A

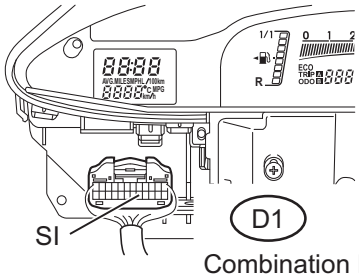
ES

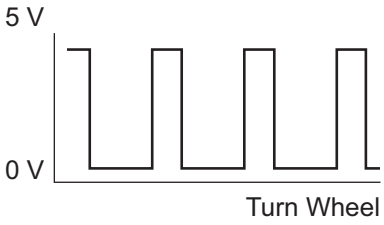
5	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL INPUT WAVEFORM)

LHD:



RHD:





A255883E02

(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
SI (D1-17) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 6**

OK

REPLACE COMBINATION METER ASSEMBLY

6	CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - SKID CONTROL ECU)

(a) Check harness and connector (w/ ABS for Sedan).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

[Added]

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-26) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-26) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(b) Check harness and connector (w/ ABS for Hatchback).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-22) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-22) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(c) Check harness and connector (w/ ABS and VSC).
(1) Disconnect the A31 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A31-11) - SI (D1-17)	Always	Below 1 Ω
SP1 (A31-11) or SI (D1-17) - Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)

[Added]

ES

2	READ VALUE USING INTELLIGENT TESTER (VEHICLE SPEED)

(a) Connect an intelligent tester to the DLC3.
(b) Turn the ignition switch on (IG) and turn the tester on.
(c) Select the following menu items: Powertrain / Engine and ECT/ Data List / Vehicle Speed.
(d) Drive the vehicle.
(e) Read the value displayed on the tester.

[Corrected]

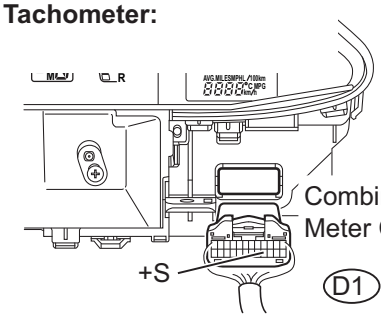
OK:
Vehicle speeds displayed on tester, speedometer display and actual vehicle speed are equal.

OK → **CHECK FOR INTERMITTENT PROBLEMS**

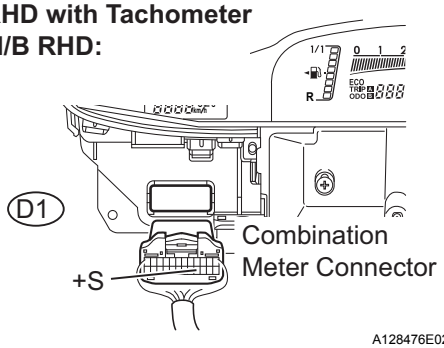
NG

3	CHECK COMBINATION METER ASSEMBLY (+S VOLTAGE)

LHD and S/D RHD without Tachometer:



S/D RHD with Tachometer and H/B RHD:



A128476E02

(a) Disconnect the D1 combination meter connector.
(b) Turn the ignition switch on (IG).
(c) Measure the voltage between the terminal of the combination meter and the body ground.
Standard voltage

Tester Connections	Specified Conditions
+S (D1-16) - Body ground	4.5 to 5.5 V

(d) Reconnect the combination meter connector.

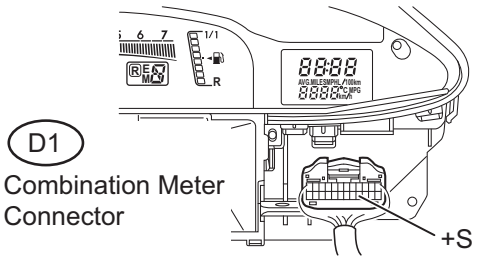
NG → **Go to step 7**

OK

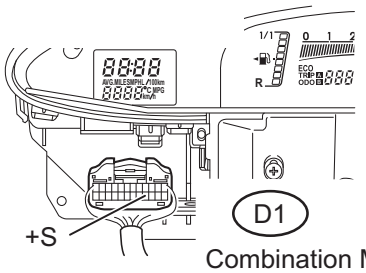
ES

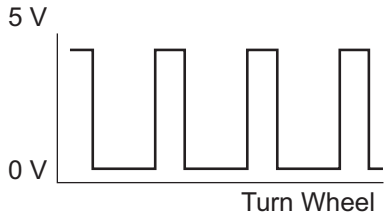
4	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL OUTPUT WAVEFORM)

LHD and S/D RHD without Tachometer:



S/D RHD with Tachometer and H/B RHD:





A128477E02

(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
+S (D1-16) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

Result

Result	Proceed to
NG (w/ ABS)	A
NG (w/o ABS)	B
OK	C

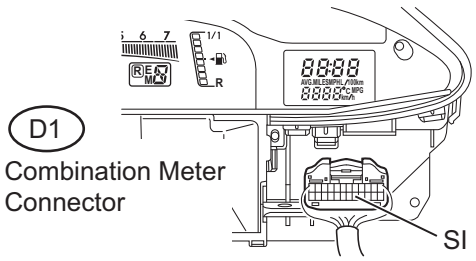
B	**REPLACE COMBINATION METER ASSEMBLY**
C	**Go to step 7**

[Corrected]

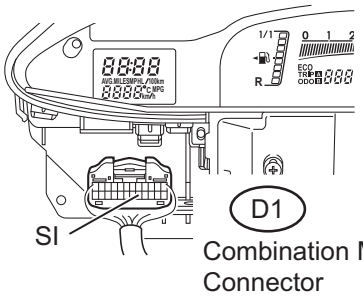
A

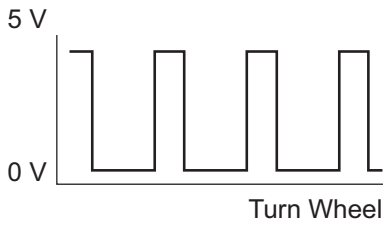
5	CHECK COMBINATION METER ASSEMBLY (SPD SIGNAL INPUT WAVEFORM)

LHD and S/D RHD without Tachometer:



S/D RHD with Tachometer and H/B RHD:





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(a) Move the shift lever to N (neutral).
(b) Jack up the vehicle.
(c) Turn the ignition switch to ON.
(d) Check the voltage between the terminal of the combination meter and the body ground while the wheel is turned slowly.

Standard voltage

Tester Connection	Condition	Specified Condition
SI (D1-17) - Body ground	Ignition switch ON (Turn wheel slowly)	Voltage generated intermittently

HINT:
The output voltage should fluctuate up and down, similarly to the diagram, when the wheel is turned slowly.

NG → **Go to step 6**

OK

REPLACE COMBINATION METER ASSEMBLY

6	CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - SKID CONTROL ECU)

(a) Check harness and connector (w/ ABS for Sedan).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

[Added]

ES

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-26) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-26) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(b) Check harness and connector (w/ ABS for Hatchback).
(1) Disconnect the A15 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A15-22) - SI (D1-17)	Always	Below 1 Ω
SP1 (A15-22) or SI (D1-17) - Body ground	Always	10 kΩ or higher

(c) Check harness and connector (w/ ABS and VSC).
(1) Disconnect the A31 skid control ECU connector.
(2) Disconnect the D1 combination meter assembly connector.
(3) Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
SP1 (A31-11) - SI (D1-17)	Always	Below 1 Ω
SP1 (A31-11) or SI (D1-17) - Body ground	Always	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

REPLACE BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)

[Added]