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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: METER / GAUGE / DISPLAY: METER / GAUGE SYSTEM: B150718; Turn Signal Light Circuit Current Below Threshold; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B150718	Turn Signal Light Circuit Current Below Threshold
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DESCRIPTION

This DTC is stored when the combination meter assembly detects an open in a front turn signal light circuit or rear turn signal light circuit.

HINT:

- If there is an open in a front turn signal light circuit or rear turn signal light circuit, the turn signal lights on the side with the open circuit will blink faster than usual.
- If there is an open in a side turn signal light circuit, DTC B150718 will not be stored.

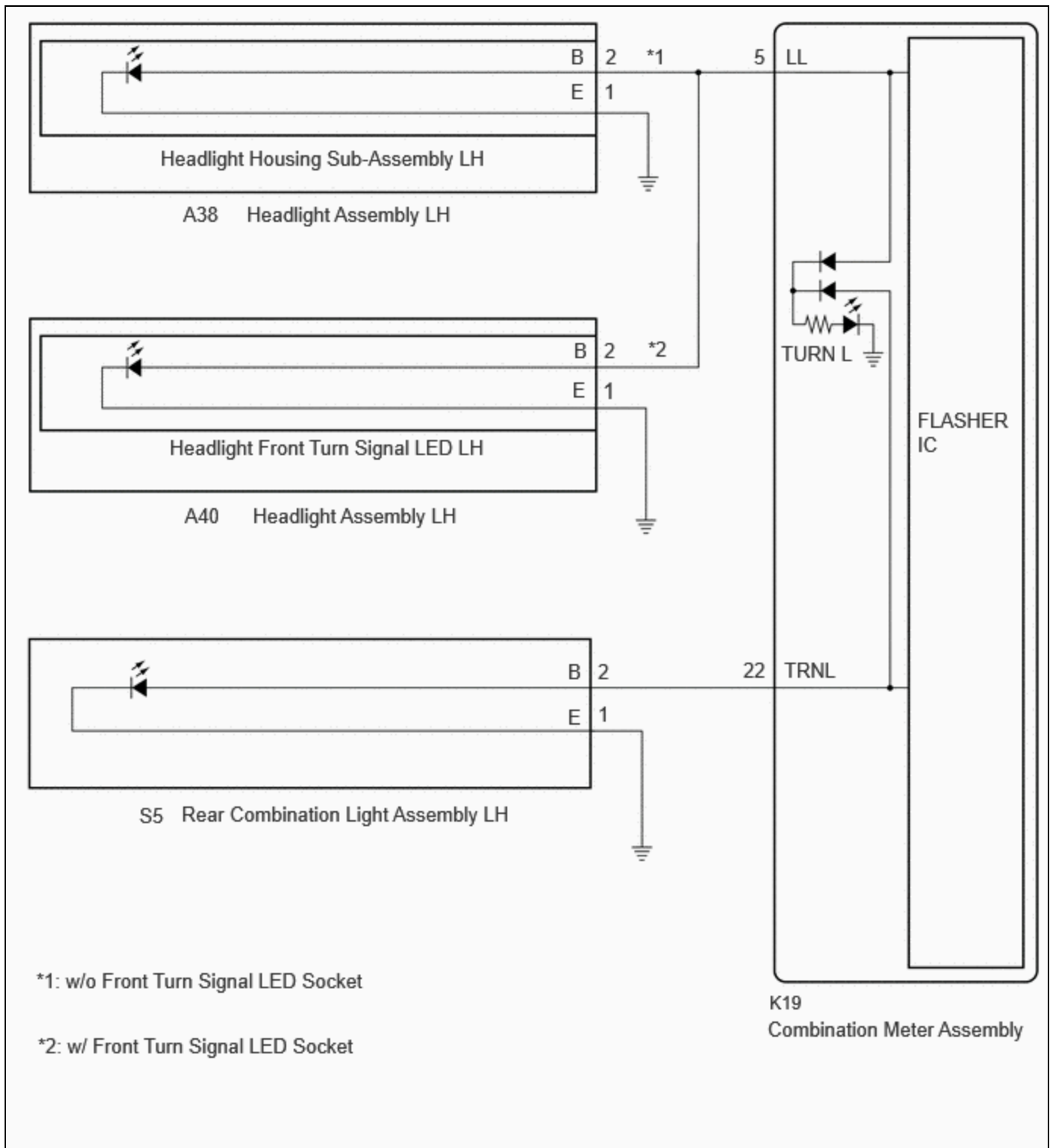
DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY
B150718	Turn Signal Light Circuit Current Below Threshold	<p>Diagnosis Condition:</p> <p>Auxiliary battery voltage is 10 V or more</p> <p>Malfunction Status:</p> <ul style="list-style-type: none"> • Open in front turn signal light circuit • Open in rear turn signal light circuit 	<ul style="list-style-type: none"> • Headlight assembly*A • Rear combination light assembly • Harness or connector • Combination meter assembly 	Combination Meter	A

*A: Refer to the following tables to identify headlight assembly component names.

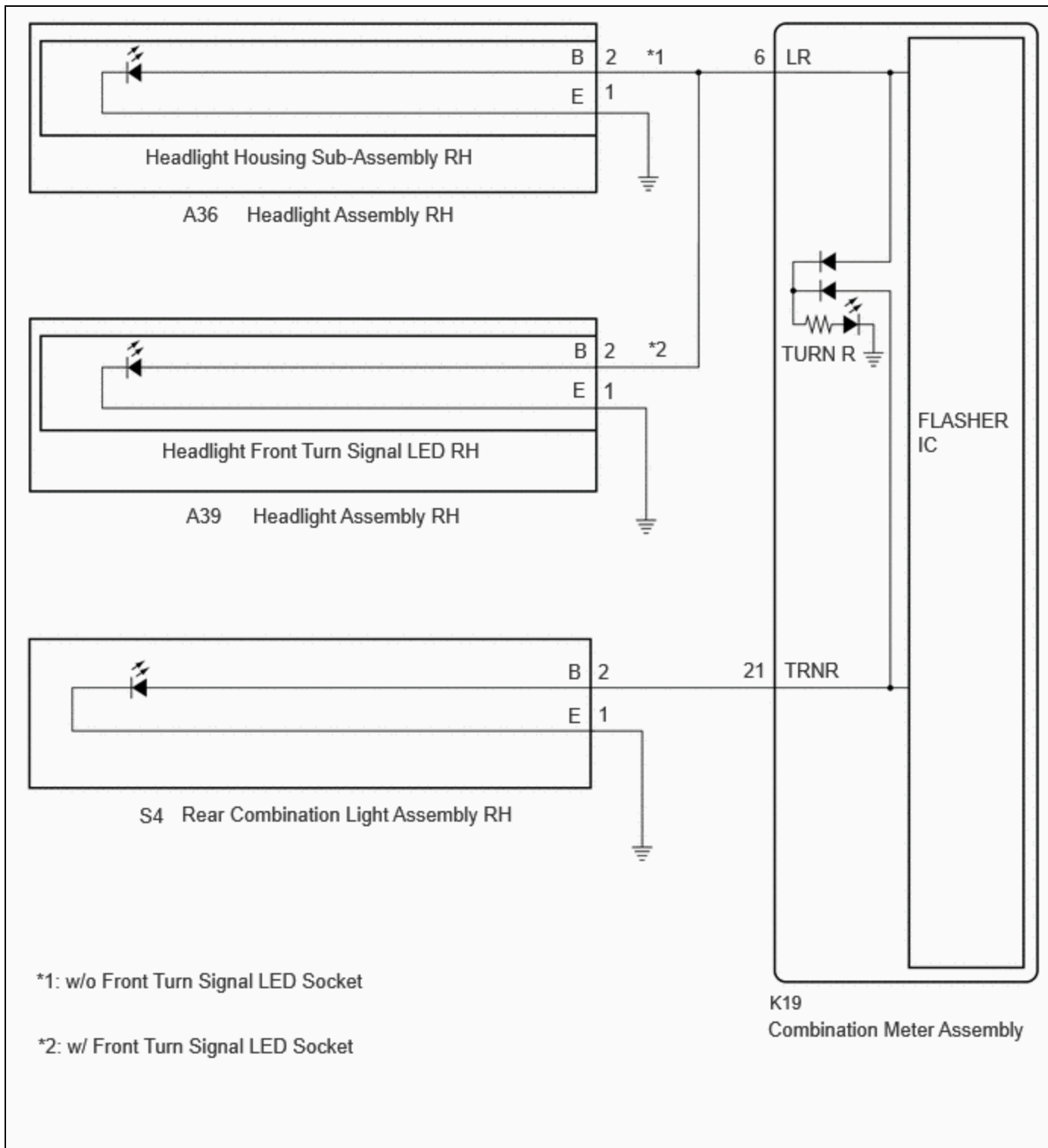
COMPONENT
Headlight Housing Sub-Assembly*1
Headlight Front Turn Signal LED*2
*1: w/o Front Turn Signal LED Socket
*2: w/ Front Turn Signal LED Socket

WIRING DIAGRAM

LH Side:



RH Side:



CAUTION / NOTICE / HINT

NOTICE:

- When replacing any of the following ECUs, always replace it with a new one. If any of the following ECUs is replaced with one which was installed to another vehicle, the information stored in it will not match the information from the vehicle and a DTC may be stored.
 - Combination meter assembly
- When replacing the combination meter assembly, update the ECU security key.

Click here [INFO](#)

- Inspect the turn signal light bulbs before performing the following procedure.

PROCEDURE

1. CHECK SYMPTOMS

(a) Operate the turn signal switch and check the problem symptoms.

RESULT	PROCEED TO
Front turn signal light (LH side) does not blink	A
Rear turn signal light (LH side) does not blink	B
Front turn signal light (RH side) does not blink	C
Rear turn signal light (RH side) does not blink	D

B ► GO TO STEP 7

C ► GO TO STEP 9

D ► GO TO STEP 14

A



2. CONFIRM MODEL

(a) Choose the model to be inspected.

RESULT	PROCEED TO
w/o Front Turn Signal LED Socket	A
w/ Front Turn Signal LED Socket	B

B ► GO TO STEP 5



3. CHECK LH SIDE FRONT TURN SIGNAL LIGHT

Pre-procedure1

(a) Remove the headlight housing sub-assembly LH from the headlight assembly LH.

HINT:

[Click here](#) **INFO**

(b) Remove the headlight housing sub-assembly RH from the headlight assembly RH.

HINT:

[Click here](#) **INFO**

Procedure1

(c) Interchange the headlight housing sub-assembly LH with RH and connect the connectors.

(d) Operate the turn signal switch and check that the LH side front turn signal light operates normally.

HINT:

If the LH side front turn signal light operates normally, the headlight housing sub-assembly LH is malfunctioning.

RESULT	PROCEED TO
LH side front turn signal light operates normally	A
Problem symptoms do not change (LH side front turn signal light does not blink)	B

Post-procedure1

(e) None

A **REPLACE HEADLIGHT HOUSING SUB-ASSEMBLY LH**



4. CHECK HARNESS AND CONNECTOR (HEADLIGHT ASSEMBLY LH - COMBINATION METER ASSEMBLY AND BODY GROUND)

Pre-procedure1

- (a) Disconnect the A38 headlight assembly LH connector.
- (b) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A38,K19\).](#)

[Click Connector\(A38\).](#)

[Click Connector\(K19\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-2 (B) - K19-5 (LL)	Always	Below 1 Ω	Ω
A38-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

- (d) None

OK ► REPLACE COMBINATION METER ASSEMBLY

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

5.	CHECK LH SIDE FRONT TURN SIGNAL LIGHT
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Pre-procedure1

- (a) Remove the headlight front turn signal LED LH from the headlight assembly LH.

HINT:

[Click here](#)

- (b) Remove the headlight front turn signal LED RH from the headlight assembly RH.

HINT:

[Click here](#)

Procedure1

- (c) Interchange the headlight front turn signal LED LH with RH and connect the connectors.
- (d) Operate the turn signal switch and check that the LH side front turn signal light operates normally.

HINT:

If the LH side front turn signal light operates normally, the headlight front turn signal LED LH is malfunctioning.

RESULT	PROCEED TO
LH side front turn signal light operates normally	A
Problem symptoms do not change (LH side front turn signal light does not blink)	B

Post-procedure1

(e) None

A ► REPLACE HEADLIGHT FRONT TURN SIGNAL LED LH

B



6.	CHECK HARNESS AND CONNECTOR (HEADLIGHT ASSEMBLY LH - COMBINATION METER ASSEMBLY AND BODY GROUND)
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Pre-procedure1

- (a) Disconnect the A40 headlight assembly LH connector.
- (b) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A40,K19\)](#)

[Click Connector\(A40\)](#)

[Click Connector\(K19\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A40-2 (B) - K19-5 (LL)	Always	Below 1 Ω	Ω
A40-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

OK ► REPLACE COMBINATION METER ASSEMBLY

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

7. CHECK LH SIDE REAR TURN SIGNAL LIGHT

Pre-procedure1

(a) Remove the rear combination light assembly LH.

HINT:

[Click here](#) INFO

(b) Remove the rear combination light assembly RH.

HINT:

[Click here](#) INFO

Procedure1

(c) Interchange the rear combination light assembly LH with RH and connect the connectors.

(d) Operate the turn signal switch and check that the LH side rear turn signal light operates normally.

HINT:

If the LH side rear turn signal light operates normally, the rear combination light assembly LH is malfunctioning.

RESULT	PROCEED TO
LH side rear turn signal light operates normally	A
Problem symptoms do not change (LH side rear turn signal light does not blink)	B

Post-procedure1

(e) None

A **REPLACE REAR COMBINATION LIGHT ASSEMBLY LH**

B

8. CHECK HARNESS AND CONNECTOR (REAR COMBINATION LIGHT ASSEMBLY LH - COMBINATION METER ASSEMBLY AND BODY GROUND)

Pre-procedure1

(a) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(S5,K19\)](#)

[Click Connector\(S5\)](#)

[Click Connector\(K19\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
S5-2 (B) - K19-22 (TRNL)	Always	Below 1 Ω	Ω
S5-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

OK ► REPLACE COMBINATION METER ASSEMBLY

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

9.	CONFIRM MODEL
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(a) Choose the model to be inspected.

RESULT	PROCEED TO
w/o Front Turn Signal LED Socket	A
w/ Front Turn Signal LED Socket	B

B ► GO TO STEP 12



10.	CHECK RH SIDE FRONT TURN SIGNAL LIGHT
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Pre-procedure1

(a) Remove the headlight housing sub-assembly RH from the headlight assembly RH.

HINT:

Click here [INFO](#)

(b) Remove the headlight housing sub-assembly LH from the headlight assembly LH.

HINT:

[Click here](#) 

Procedure1

- (c) Interchange the headlight housing sub-assembly RH with LH and connect the connectors.
- (d) Operate the turn signal switch and check that the RH side front turn signal light operates normally.

HINT:

If the RH side front turn signal light operates normally, the headlight housing sub-assembly RH is malfunctioning.

RESULT	PROCEED TO
RH side front turn signal light operates normally	A
Problem symptoms do not change (RH side front turn signal light does not blink)	B

Post-procedure1

- (e) None

A  **REPLACE HEADLAMP HOUSING SUB-ASSEMBLY RH**

B



11.	CHECK HARNESS AND CONNECTOR (HEADLIGHT ASSEMBLY RH - COMBINATION METER ASSEMBLY AND BODY GROUND)
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Pre-procedure1

- (a) Disconnect the A36 headlight assembly RH connector.
- (b) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(A36,K19\).](#)

[Click Connector\(A36\).](#)

[Click Connector\(K19\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-2 (B) - K19-6 (LR)	Always	Below 1 Ω	Ω
A36-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(d) None

OK ► REPLACE COMBINATION METER ASSEMBLY**NG** ► REPAIR OR REPLACE HARNESS OR CONNECTOR

12.	CHECK RH SIDE FRONT TURN SIGNAL LIGHT
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Pre-procedure1

(a) Remove the headlight front turn signal LED RH from the headlight assembly RH.

HINT:Click here [INFO](#)

(b) Remove the headlight front turn signal LED LH from the headlight assembly LH.

HINT:Click here [INFO](#)

Procedure1

(c) Interchange the headlight front turn signal LED RH with LH and connect the connectors.

(d) Operate the turn signal switch and check that the RH side front turn signal light operates normally.

HINT:

If the RH side front turn signal light operates normally, the headlight front turn signal LED RH is malfunctioning.

RESULT	PROCEED TO
RH side front turn signal light operates normally	A
Problem symptoms do not change (RH side front turn signal light does not blink)	B

Post-procedure1

(e) None

A ► REPLACE HEADLIGHT FRONT TURN SIGNAL LED RH**B**

13.**CHECK HARNESS AND CONNECTOR (HEADLIGHT ASSEMBLY RH - COMBINATION METER ASSEMBLY AND BODY GROUND)**

Pre-procedure1

- (a) Disconnect the A39 headlight assembly RH connector.
- (b) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:


[Click Location & Routing\(A39,K19\).](#)
[Click Connector\(A39\).](#)
[Click Connector\(K19\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A39-2 (B) - K19-6 (LR)	Always	Below 1 Ω	Ω
A39-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

- (d) None

OK ► **REPLACE COMBINATION METER ASSEMBLY**
NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**
14.**CHECK RH SIDE REAR TURN SIGNAL LIGHT**

Pre-procedure1

- (a) Remove the rear combination light assembly RH.

HINT:
[Click here](#) **INFO**

- (b) Remove the rear combination light assembly LH.

HINT:
[Click here](#) **INFO**

Procedure1

- (c) Interchange the rear combination light assembly RH with LH and connect the connectors.
- (d) Operate the turn signal switch and check that the RH side rear turn signal light operates normally.

HINT:

If the RH side rear turn signal light operates normally, the rear combination light assembly RH is malfunctioning.

RESULT	PROCEED TO
RH side rear turn signal light operates normally	A
Problem symptoms do not change (RH side rear turn signal light does not blink)	B

Post-procedure1

(e) None

A ► REPLACE REAR COMBINATION LIGHT ASSEMBLY RH

B



15.	CHECK HARNESS AND CONNECTOR (REAR COMBINATION LIGHT ASSEMBLY RH - COMBINATION METER ASSEMBLY AND BODY GROUND)
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Pre-procedure1

(a) Disconnect the K19 combination meter assembly connector.

Procedure1

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

Standard Resistance:



[Click Location & Routing\(S4,K19\)](#)

[Click Connector\(S4\)](#)

[Click Connector\(K19\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
S4-2 (B) - K19-21 (TRNR)	Always	Below 1 Ω	Ω
S4-1 (E) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

OK ► REPLACE COMBINATION METER ASSEMBLY

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

