

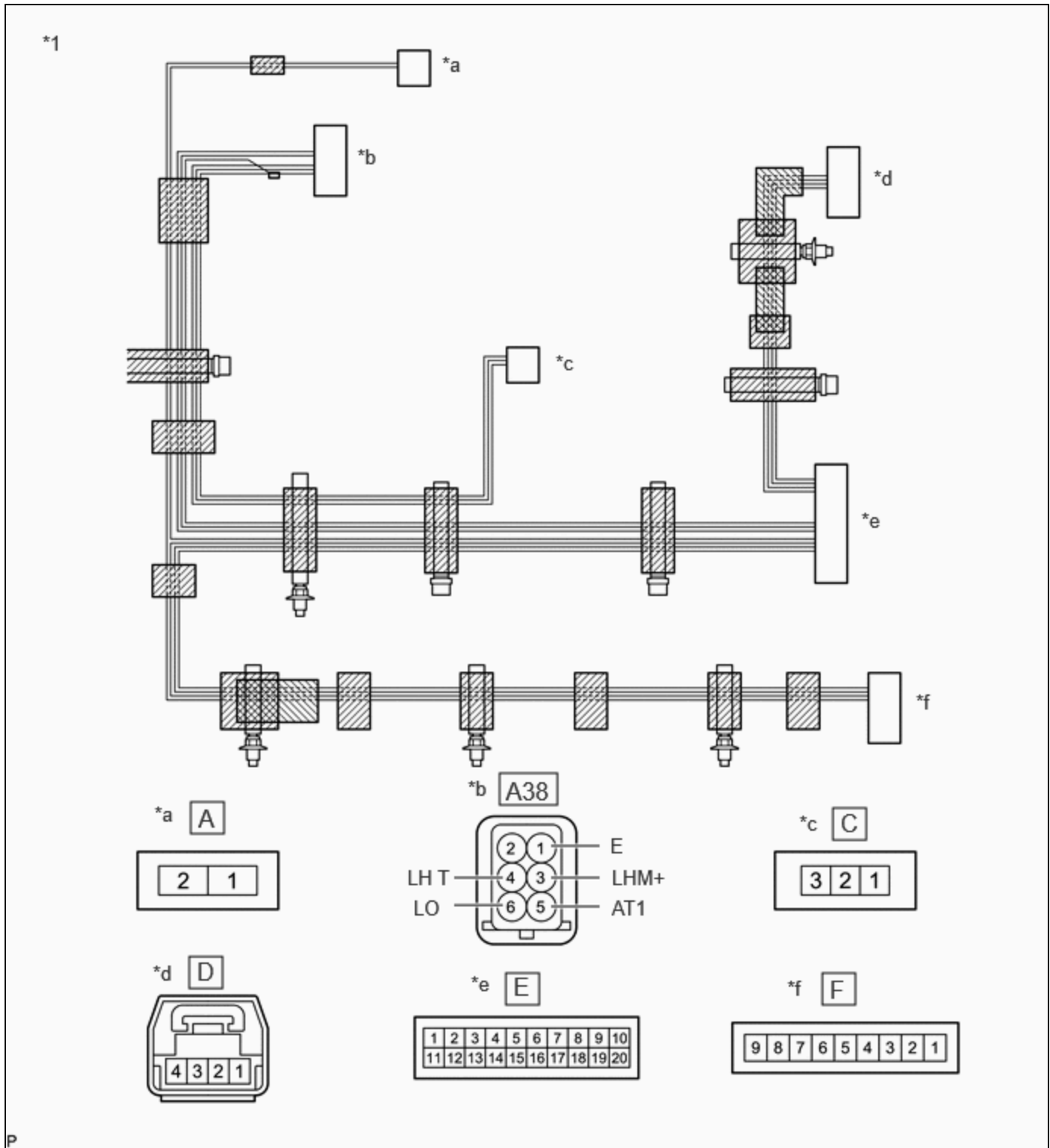
Last Modified: 12-04-2024	6.11:8.1.0	Doc ID: RM1000000029FZW
Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: LIGHTING (EXT): HEADLIGHT ASSEMBLY: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

PROCEDURE

1. INSPECT HEADLIGHT HOUSING LH (w/ Front Turn Signal LED Socket)

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



*1	Headlight Housing LH (Headlight Cord)	-	-
*a	Component without harness connected (to No. 1 Headlight Clearance LED LH)	*b	Component without harness connected (to Wire Harness)
*c	Component without harness connected (to Headlight Leveling Motor LH)	*d	Component without harness connected (to Headlight Unit LH)
*e	Component without harness connected (to Light Control ECU)	*f	Component without harness connected (to Headlight Turn Signal LED Unit)

(1) Inspect the clearance light/daytime running light circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A-1 - F-5	Always	Below 1 Ω	Ω
A-2 - E-6	Always	Below 1 Ω	Ω
E-7 - F-1	Always	Below 1 Ω	Ω
E-12 - F-8	Always	Below 1 Ω	Ω
E-13 - F-9	Always	Below 1 Ω	Ω
E-14 - F-2	Always	Below 1 Ω	Ω
E-17 - F-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(2) Inspect the Lo/Hi beam circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
D-1 - E-16	Always	Below 1 Ω	Ω
D-2 - E-10	Always	Below 1 Ω	Ω
D-3 - E-15	Always	Below 1 Ω	Ω
D-4 - E-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(3) Inspect the headlight leveling motor circuit.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-2 (B) - C-3	Always	Below 1 Ω	Ω
A38-3 (LHM+) - C-2	Always	Below 1 Ω	Ω
A38-4 (LH T) - C-1	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(4) Inspect the light control ECU power source circuit.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

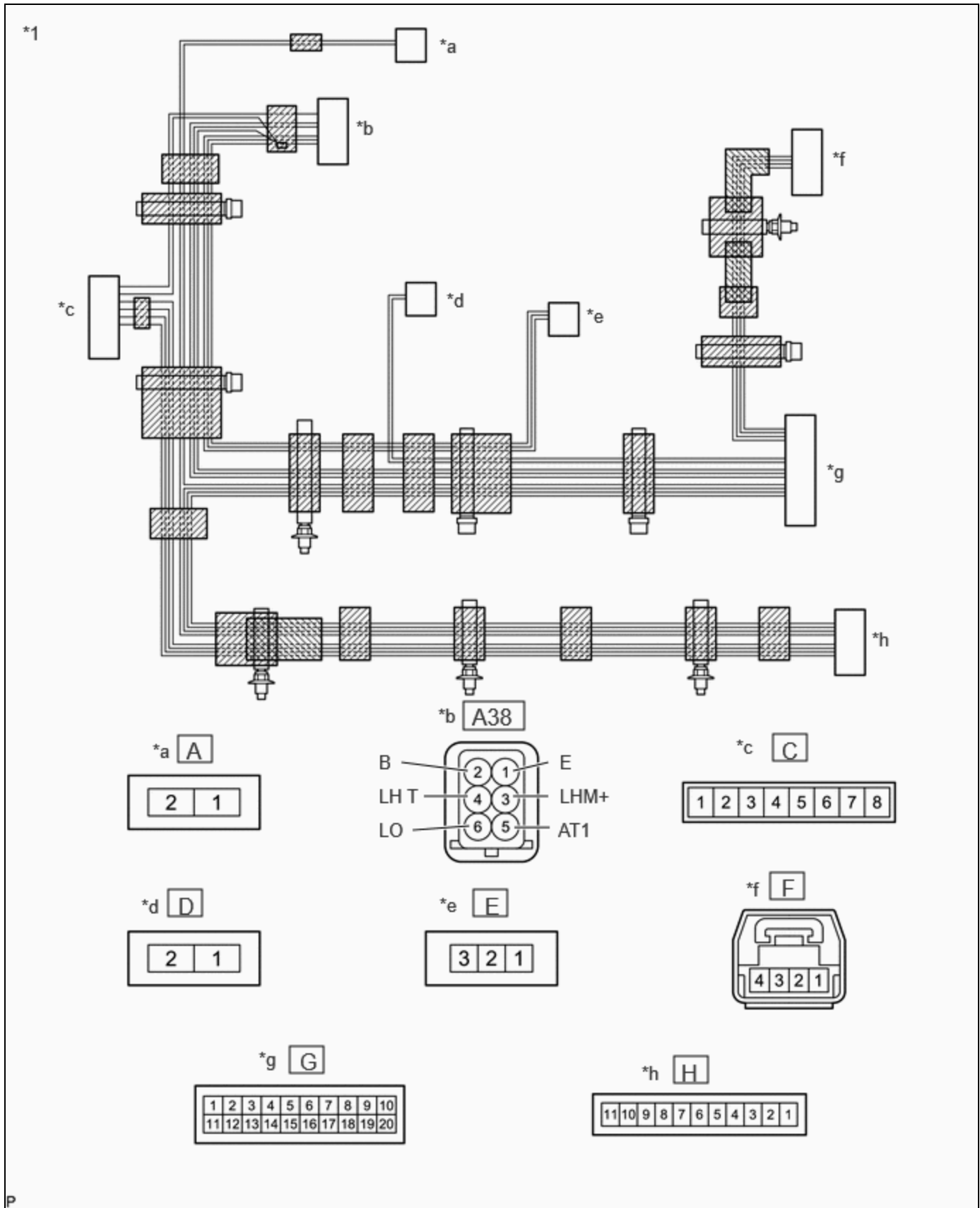
[Click Connector\(A38\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-2 (B) - E-8	Always	Below 1 Ω	Ω
A38-5 (AT1) - E-19	Always	Below 1 Ω	Ω
A38-6 (LO) - E-11	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

2. INSPECT HEADLIGHT HOUSING LH (w/o Front Turn Signal LED Socket)

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



*1	Headlight Housing LH (Headlight Cord)	-	-
*a	Component without harness connected (to No. 1 Headlight Clearance LED LH)	*b	Component without harness connected (to Wire Harness)

*c	Component without harness connected (to Headlight Turn Signal LED Unit)	*d	Component without harness connected (to No. 2 Headlight Clearance LED LH)
*e	Component without harness connected (to Headlight Leveling Motor LH)	*f	Component without harness connected (to Headlight Unit LH)
*g	Component without harness connected (to Light Control ECU)	*h	Component without harness connected (to No. 3 Headlight Clearance LED LH)

(1) Inspect the clearance light/daytime running light circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A-1 - H-7	Always	Below 1 Ω	Ω
A-2 - G-6	Always	Below 1 Ω	Ω
D-1 - G-20	Always	Below 1 Ω	Ω
D-2 - G-3	Always	Below 1 Ω	Ω
G-7 - H-10	Always	Below 1 Ω	Ω
G-12 - H-1	Always	Below 1 Ω	Ω
G-13 - H-2	Always	Below 1 Ω	Ω
G-14 - H-11	Always	Below 1 Ω	Ω
G-17 - H-8	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(2) Inspect the turn signal light circuit.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-1 (E) - C-2	Always	Below 1 Ω	Ω
A38-2 (B) - C-3	Always	Below 1 Ω	Ω
C-4 - H-5	Always	Below 1 Ω	Ω
C-5 - H-3	Always	Below 1 Ω	Ω
C-6 - H-4	Always	Below 1 Ω	Ω
C-8 - H-6	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(3) Inspect the Lo/Hi beam circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
F-1 - G-16	Always	Below 1 Ω	Ω
F-2 - G-10	Always	Below 1 Ω	Ω
F-3 - G-15	Always	Below 1 Ω	Ω
F-4 - G-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(4) Inspect the headlight leveling motor circuit.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-2 (B) - E-3	Always	Below 1 Ω	Ω
A38-3 (LHM+) - E-2	Always	Below 1 Ω	Ω
A38-4 (LH T) - E-1	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

(5) Inspect the light control ECU power source circuit.

Standard Resistance:



[Click Location & Routing\(A38\)](#)

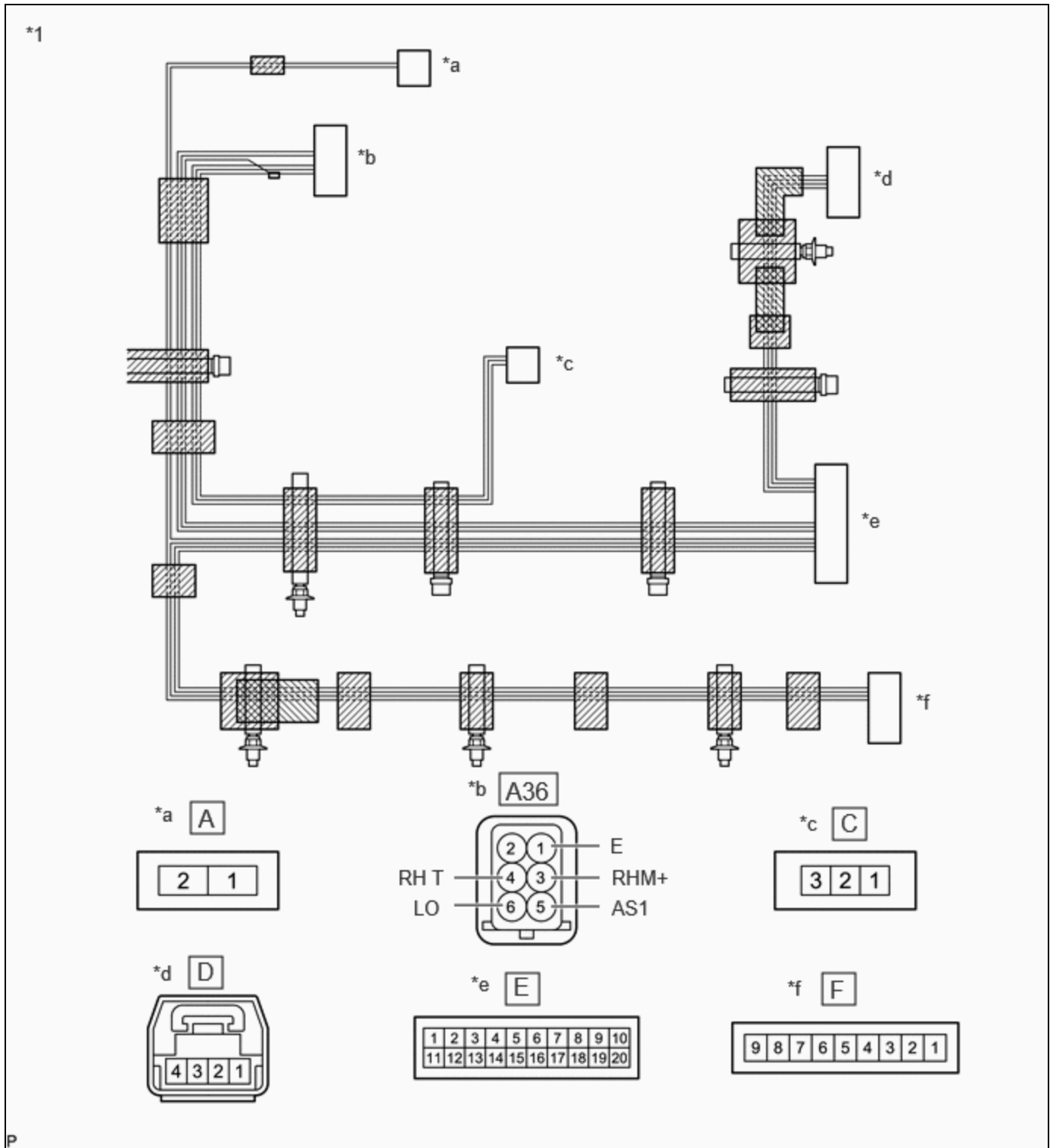
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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A38-2 (B) - G-8	Always	Below 1 Ω	Ω
A38-5 (AT1) - G-19	Always	Below 1 Ω	Ω
A38-6 (LO) - G-11	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing LH (headlight cord).

3. INSPECT HEADLIGHT HOUSING RH (w/ Front Turn Signal LED Socket)

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



*1	Headlight Housing RH (Headlight Cord)	-	-
*a	Component without harness connected (to No. 1 Headlight Clearance LED RH)	*b	Component without harness connected (to Wire Harness)
*c	Component without harness connected (to Headlight Leveling Motor RH)	*d	Component without harness connected (to Headlight Unit RH)
*e	Component without harness connected	*f	Component without harness connected

(to Light Control ECU)

(to Headlight Turn Signal LED Unit)

(1) Inspect the clearance light/daytime running light circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A-1 - F-5	Always	Below 1 Ω	Ω
A-2 - E-6	Always	Below 1 Ω	Ω
E-7 - F-1	Always	Below 1 Ω	Ω
E-12 - F-8	Always	Below 1 Ω	Ω
E-13 - F-9	Always	Below 1 Ω	Ω
E-14 - F-2	Always	Below 1 Ω	Ω
E-17 - F-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(2) Inspect the Lo/Hi beam circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
D-1 - E-16	Always	Below 1 Ω	Ω
D-2 - E-10	Always	Below 1 Ω	Ω
D-3 - E-15	Always	Below 1 Ω	Ω
D-4 - E-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(3) Inspect the headlight leveling motor circuit.

Standard Resistance:


[Click Location & Routing\(A36\)](#)
[Click Connector\(A36\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-2 (B) - C-3	Always	Below 1 Ω	Ω
A36-3 (RHM+) - C-2	Always	Below 1 Ω	Ω
A36-4 (RH T) - C-1	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(4) Inspect the light control ECU power source circuit.

Standard Resistance:


[Click Location & Routing\(A36\)](#)

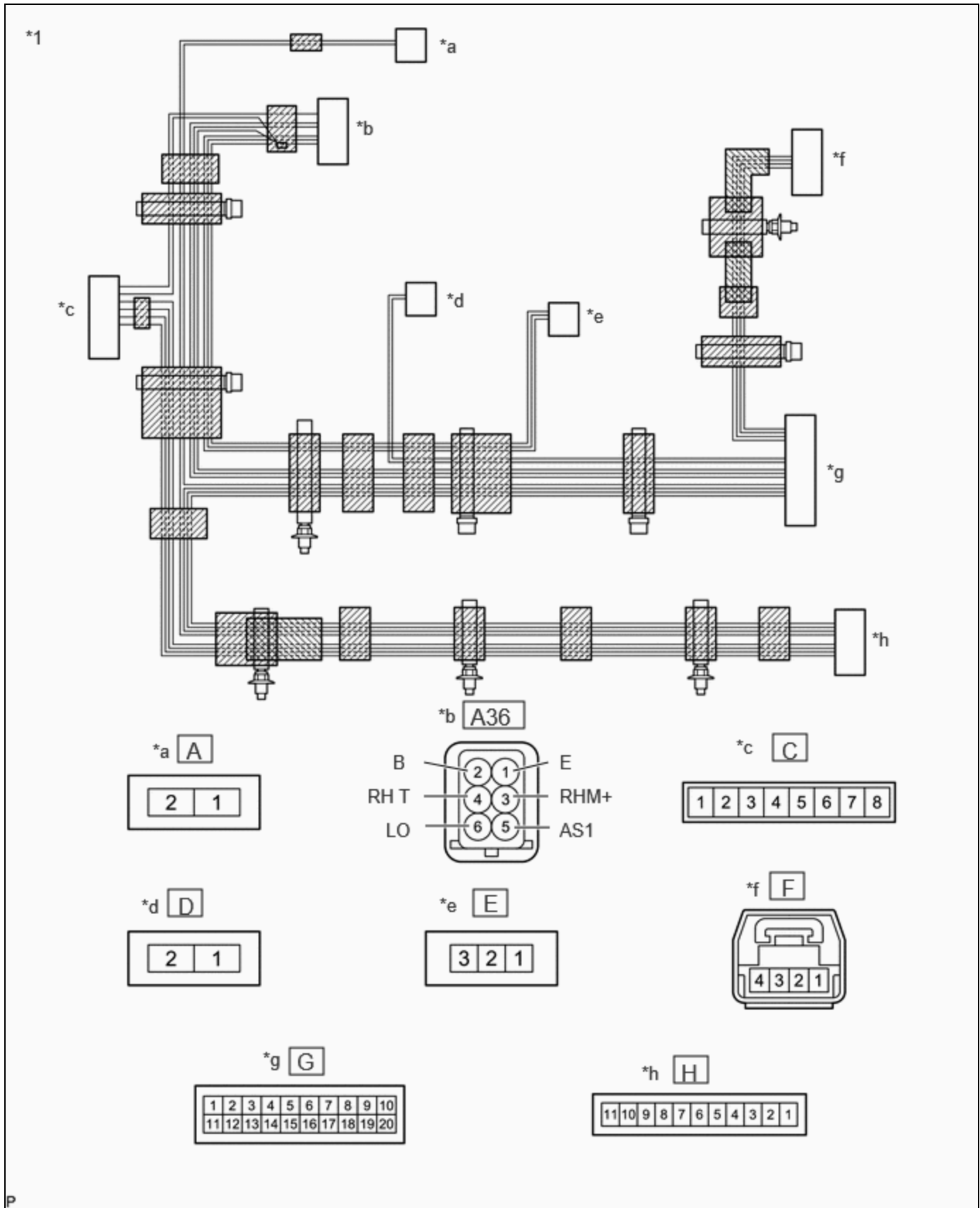
[Click Connector\(A36\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-2 (B) - E-8	Always	Below 1 Ω	Ω
A36-5 (AS1) - E-19	Always	Below 1 Ω	Ω
A36-6 (LO) - E-11	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

4. INSPECT HEADLIGHT HOUSING RH (w/o Front Turn Signal LED Socket)

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



*1	Headlight Housing RH (Headlight Cord)	-	-
*a	Component without harness connected (to No. 1 Headlight Clearance LED RH)	*b	Component without harness connected (to Wire Harness)

*c	Component without harness connected (to Headlight Turn Signal LED Unit)	*d	Component without harness connected (to No. 2 Headlight Clearance LED RH)
*e	Component without harness connected (to Headlight Leveling Motor RH)	*f	Component without harness connected (to Headlight Unit RH)
*g	Component without harness connected (to Light Control ECU)	*h	Component without harness connected (to No. 3 Headlight Clearance LED RH)

(1) Inspect the clearance light/daytime running light circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A-1 - H-4	Always	Below 1 Ω	Ω
A-2 - G-6	Always	Below 1 Ω	Ω
D-1 - G-20	Always	Below 1 Ω	Ω
D-2 - G-3	Always	Below 1 Ω	Ω
G-7 - H-1	Always	Below 1 Ω	Ω
G-12 - H-10	Always	Below 1 Ω	Ω
G-13 - H-11	Always	Below 1 Ω	Ω
G-14 - H-2	Always	Below 1 Ω	Ω
G-17 - H-5	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(2) Inspect the turn signal light circuit.

Standard Resistance:



[Click Location & Routing\(A36\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-1 (E) - C-2	Always	Below 1 Ω	Ω
A36-2 (B) - C-3	Always	Below 1 Ω	Ω
C-4 - H-6	Always	Below 1 Ω	Ω
C-5 - H-8	Always	Below 1 Ω	Ω
C-6 - H-9	Always	Below 1 Ω	Ω
C-8 - H-7	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(3) Inspect the Lo/Hi beam circuit.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
F-1 - G-16	Always	Below 1 Ω	Ω
F-2 - G-10	Always	Below 1 Ω	Ω
F-3 - G-15	Always	Below 1 Ω	Ω
F-4 - G-4	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(4) Inspect the headlight leveling motor circuit.

Standard Resistance:



[Click Location & Routing\(A36\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-2 (B) - E-3	Always	Below 1 Ω	Ω
A36-3 (RHM+) - E-2	Always	Below 1 Ω	Ω
A36-4 (RH T) - E-1	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

(5) Inspect the light control ECU power source circuit.

Standard Resistance:



[Click Location & Routing\(A36\)](#)

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

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A36-2 (B) - G-8	Always	Below 1 Ω	Ω
A36-5 (AS1) - G-19	Always	Below 1 Ω	Ω
A36-6 (LO) - G-11	Always	Below 1 Ω	Ω

If the result is not as specified, replace the headlight housing RH (headlight cord).

