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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: LIGHTING (INT): BACK DOOR COURTESY SWITCH: INSPECTION; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

INSPECTION

PROCEDURE

1. INSPECT BACK DOOR LOCK ASSEMBLY WITH COURTESY LIGHT SWITCH (w/o Power Back Door)

- (a) Check the operation of the door lock motor.
- (1) Move the door lock to the close (lock) position.
 - (2) Apply auxiliary battery voltage and check the operation of the door lock motor.

OK:

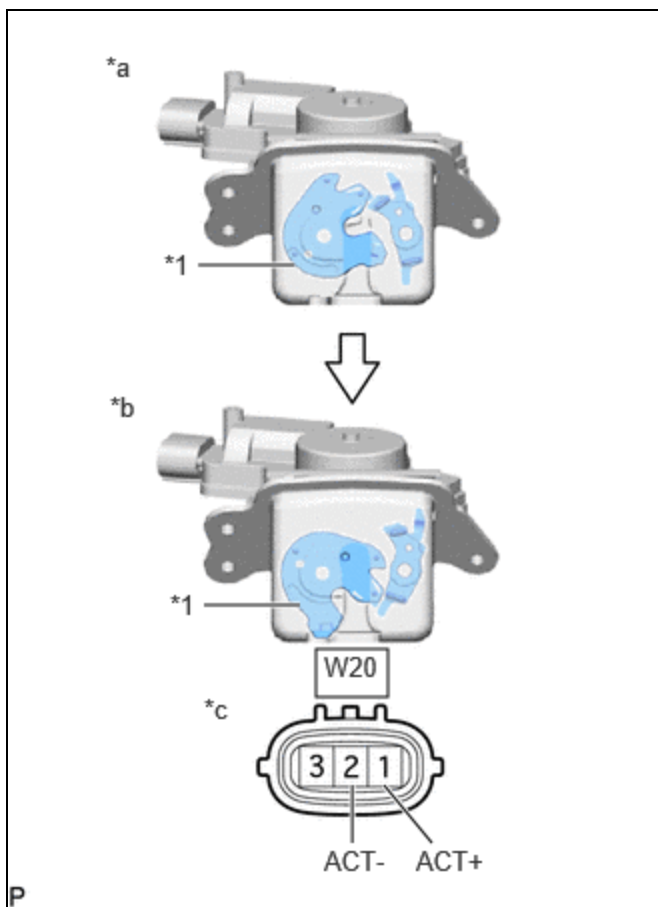


[Click Location & Routing\(W20\).](#)

[Click Connector\(W20\).](#)

TESTER CONNECTION	SPECIFIED CONDITION
W20-1 (ACT+) - Auxiliary battery positive (+)	Back door lock motor open (unlock) operation
W20-2 (ACT-) - Auxiliary battery negative (-)	

If the result is not as specified, replace the back door lock assembly with courtesy light switch.



*1	Latch
*a	Close (Lock)
*b	Open (Unlock)
*c	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

- (b) Check the operation of the door courtesy switch.

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

Standard Resistance:

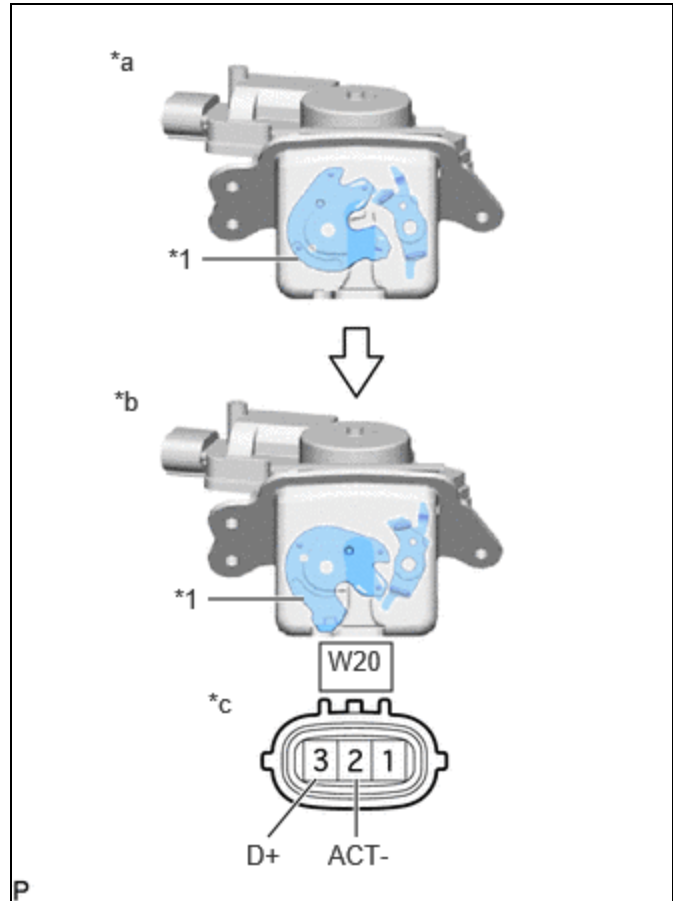


[Click Location & Routing\(W20\)](#)

[Click Connector\(W20\)](#)

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION	RESULT
W20-3 (D+) - W20-2 (ACT-)	Close	10 kΩ or higher	kΩ
W20-3 (D+) - W20-2 (ACT-)	Open	Below 1 Ω	Ω

If the result is not as specified, replace the back door lock assembly with courtesy light switch.



*1	Latch
*a	Close (Lock)
*b	Open (Unlock)
*c	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

2. INSPECT BACK DOOR LOCK ASSEMBLY WITH COURTESY LIGHT SWITCH (w/ Power Back Door)

(a) Check the operation.

- (1) Apply auxiliary battery voltage to the door lock motor and check the operation of the door lock motor.

OK:

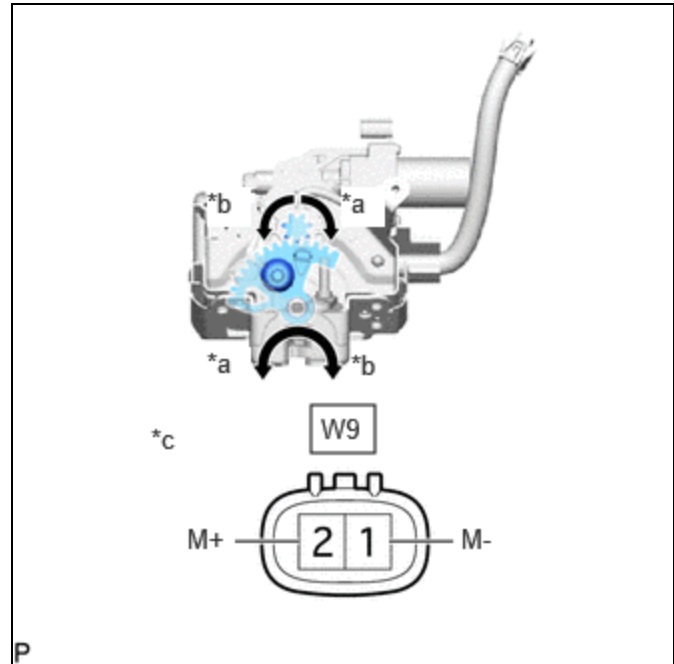


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[Click Connector\(W9\)](#)

TESTER CONNECTION	RESULT
W9-1 (M-) - Auxiliary battery positive (+) W9-2 (M+) - Auxiliary battery negative (-)	Open Operation
W9-2 (M+) - Auxiliary battery positive (+) W9-1 (M-) - Auxiliary battery negative (-)	Close Operation

If the result is not as specified, replace the back door lock assembly with courtesy light switch.



*a	Open Operation Direction
*b	Close Operation Direction
*c	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

(b) Check the resistance of the half latch switch.

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

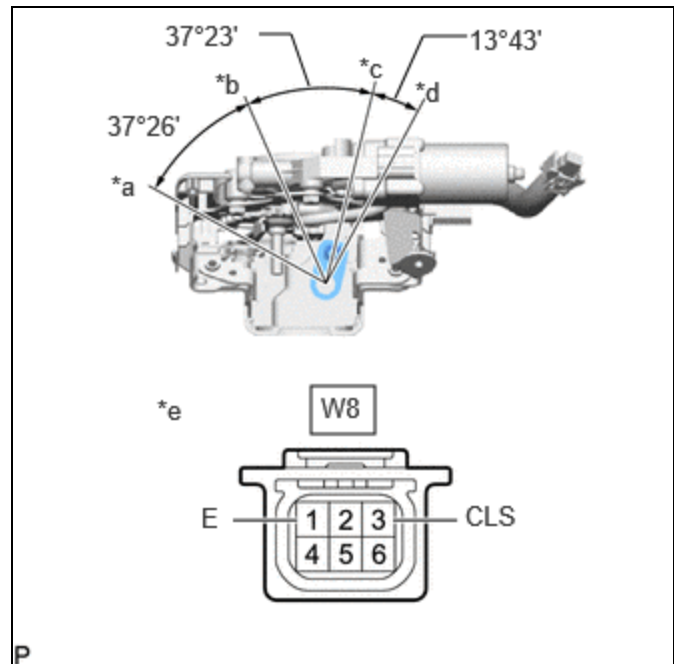
Standard Resistance:



[Click Location & Routing\(W8\)](#)

[Click Connector\(W8\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W8-1 (E) - W8-3 (CLS)	Open position	Below 1 Ω	Ω
W8-1 (E) - W8-3 (CLS)	Half-latch position	10 kΩ or higher	kΩ
W8-1 (E) - W8-3 (CLS)	Full-latch position	10 kΩ or higher	kΩ
W8-1 (E) - W8-3 (CLS)	Overstroke position	10 kΩ or higher	kΩ



*a	Open Position
*b	Half-latch Position
*c	Full-latch Position
*d	Overstroke Position

If the result is not as specified, replace the back door lock assembly with courtesy light switch.

*e	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)
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(c) Check the resistance of the full latch switch.

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

Standard Resistance:

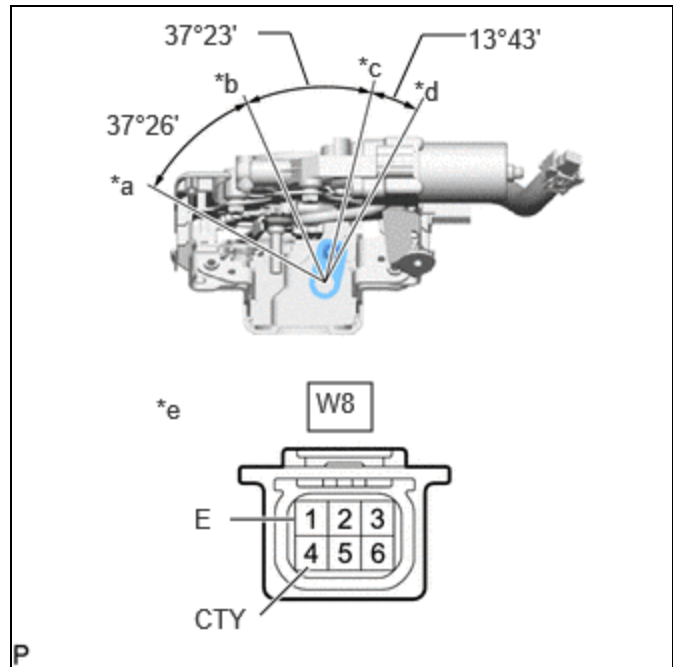


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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W8-4 (CTY) - W8-1 (E)	Open position	Below 1 Ω	Ω
W8-4 (CTY) - W8-1 (E)	Half-latch position	Below 1 Ω	Ω
W8-4 (CTY) - W8-1 (E)	Full-latch position	10 kΩ or higher	kΩ
W8-4 (CTY) - W8-1 (E)	Overstroke position	10 kΩ or higher	kΩ

If the result is not as specified, replace the back door lock assembly with courtesy light switch.



*a	Open Position
*b	Half-latch Position
*c	Full-latch Position
*d	Overstroke Position
*e	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

(d) Check the resistance of the pawl switch.

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

Standard Resistance:

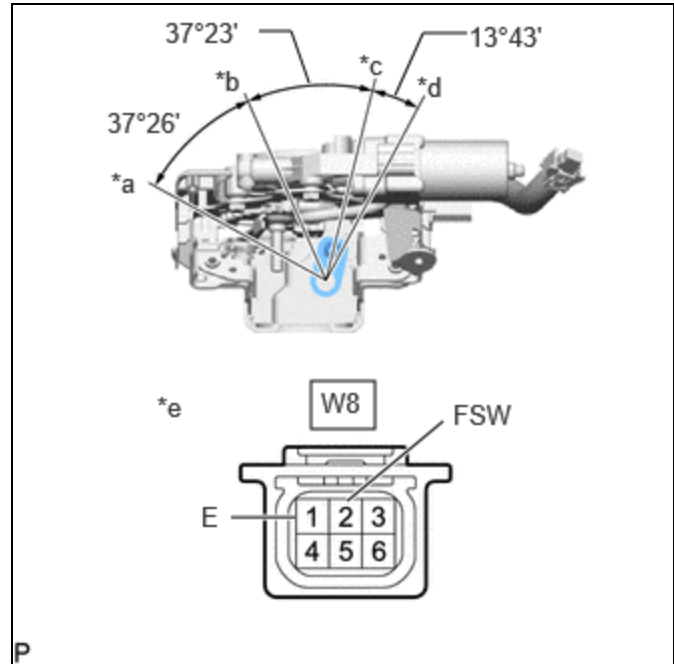


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TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W8-2 (FSW) - W8-1 (E)	Open position	10 kΩ or higher	kΩ

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W8-2 (FSW) - W8-1 (E)	Between open position and half-latch position	Below 1 Ω	Ω
W8-2 (FSW) - W8-1 (E)	Half-latch position	10 kΩ or higher	kΩ
W8-2 (FSW) - W8-1 (E)	Between half-latch position and full-latch position	Below 1 Ω	Ω
W8-2 (FSW) - W8-1 (E)	Full-latch position	10 kΩ or higher	kΩ
W8-2 (FSW) - W8-1 (E)	Overstroke position	10 kΩ or higher	kΩ



If the result is not as specified, replace the back door lock assembly with courtesy light switch.

*a	Open Position
*b	Half-latch Position
*c	Full-latch Position
*d	Overstroke Position
*e	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

(e) Check the operation of the selector switch.

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

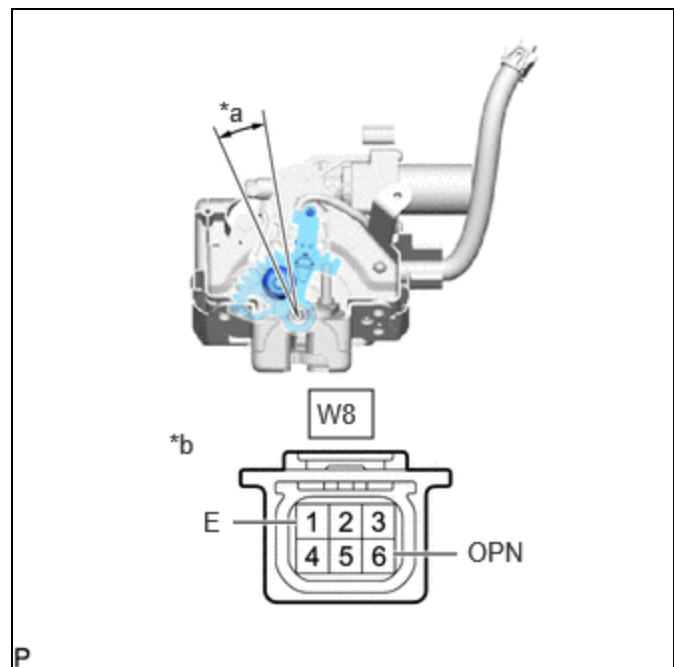
Standard Resistance:



[Click Location & Routing\(W8\)](#)

[Click Connector\(W8\)](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
W8-6 (OPN) - W8-1 (E)	Selector gear in neutral position (Selector switch on)	Below 1 Ω	Ω
W8-6 (OPN) - W8-1 (E)	Selector gear not in neutral position	10 kΩ or higher	kΩ



TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
	(Selector switch off)		

*a	Sector Gear in Neutral Position
*b	Component without harness connected (Back Door Lock Assembly with Courtesy Light Switch)

If the result is not as specified, replace the back door lock assembly with courtesy light switch.

