

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

- (a) Connect the intelligent tester with CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester main switch ON.
- (c) Read the DATA LIST according to the prompts displayed on the tester.

BACK-DOOR:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
WIPER TURN SW	Rear wiper turn position switch signal/ON or OFF	ON: Rear wiper in turning position OFF: Rear wiper in other position	-
WIPER RTRCT SW	Rear wiper retracting switch signal/ON or OFF	ON: Rear wiper in retracting position OFF: Rear wiper in other position	-

2. PERFORM ACTIVE TEST

HINT:

Performing the tester's ACTIVE TEST allows relays, VSVs, actuators, and other items to be operated without removing any parts. Performing the ACTIVE TEST early in troubleshooting is one way to save time. The DATA LIST can be displayed during the ACTIVE TEST.

- (a) Connect the intelligent tester with CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and push the intelligent tester main switch ON.
- (c) Perform the ACTIVE TEST according to the prompts displayed on the tester.

BACK-DOOR:

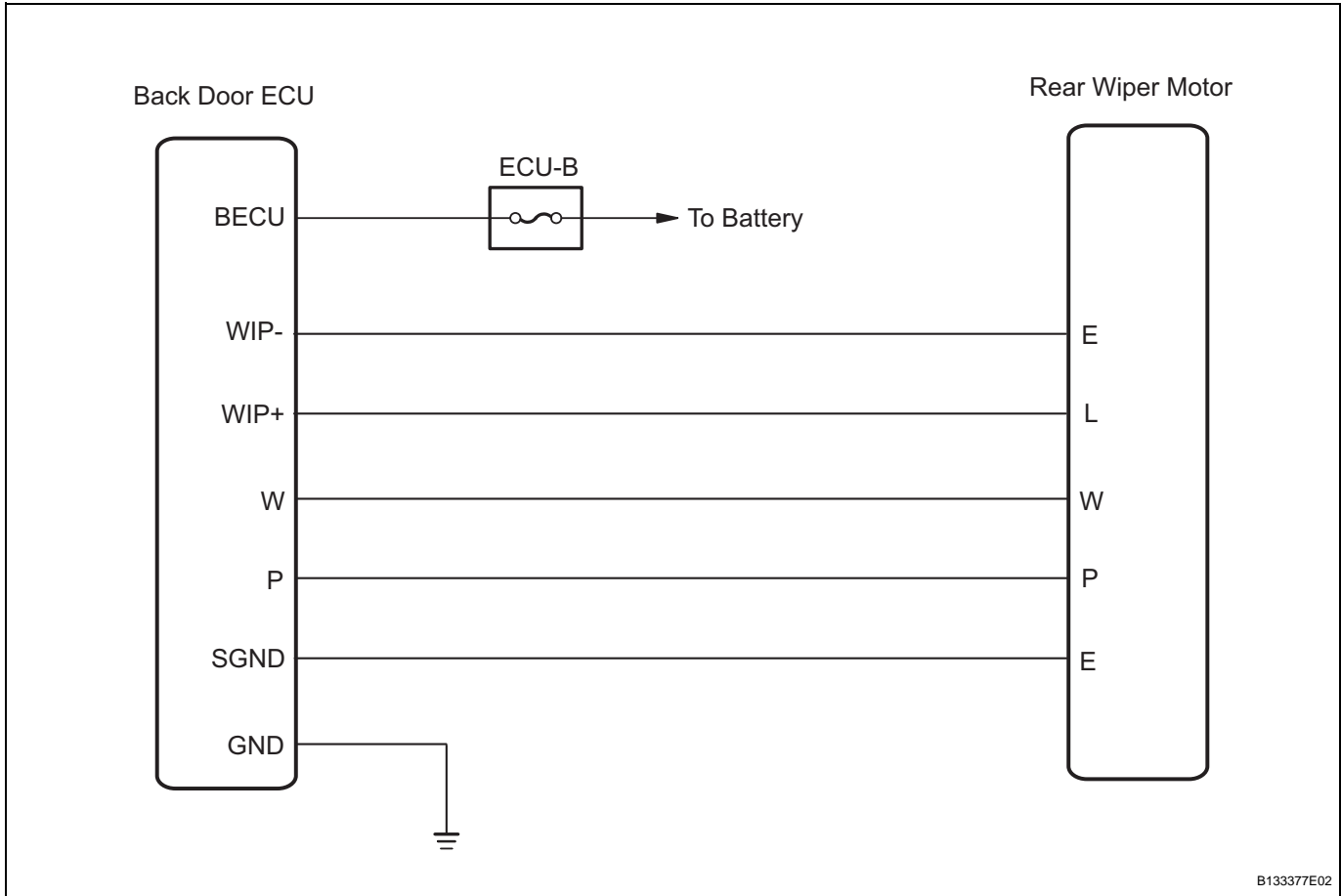
Item	Test Details	Diagnostic Note
REAR WIPER	Rear wiper ON/OFF	-

Rear Wiper Motor Circuit

DESCRIPTION

The back door ECU controls the rear wiper motor.

WIRING DIAGRAM



INSPECTION PROCEDURE

1 CHECK DTC OUTPUT

- (a) Connect the intelligent tester with CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Clear the DTCs.
- (d) Check whether DTC B1214, B1215 or B1287 recurs 10 seconds or more after the ignition switch is turned on.

OK:

No DTC is output.

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GO TO MULTIPLEX COMMUNICATION SYSTEM

OK

2 PERFORM ACTIVE TEST BY INTELLIGENT TESTER (REAR WIPER)

- (a) Connect the intelligent tester with CAN VIM to the DLC3.
- (b) Turn the ignition switch ON and turn the tester ON.
- (c) Select the item below in the ACTIVE TEST and then check that the rear wiper operates.

BACK-DOOR

Item	Test Details	Diagnostic Note
REAR WIPER	Rear wiper operation ON/OFF	-

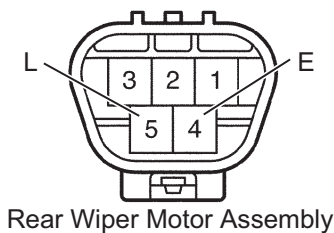
OK:
Rear wiper operates.

OK → **REPLACE BACK DOOR ECU**

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3 INSPECT REAR WIPER MOTOR ASSEMBLY

Component Side:



P E034081E29

- (a) Remove the rear wiper motor assembly.
- (b) Connect the battery's positive (+) lead to terminal 5 (L) and the negative (-) lead to terminal 4 (E).
- (c) Check that the rear wiper motor operates.

OK:
Rear wiper motor operates.

- (d) Reinstall the rear wiper motor assembly.

NG → **REPLACE REAR WIPER MOTOR ASSEMBLY**

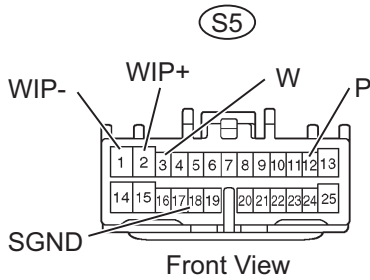
OK



4 CHECK HARNESS AND CONNECTOR (REAR WIPER MOTOR ASSEMBLY - BACK DOOR ECU)

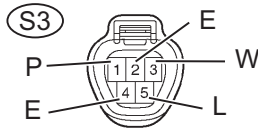
Wire Harness Side:

Back Door ECU Connector



Front View

Rear Wiper Motor Assembly Connector



Front View

B062909E01

- (a) Disconnect the S3 rear wiper motor assembly connector.
- (b) Disconnect the S5 back door ECU connector.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Specified Condition
S5-1 (WIP-) - S3-4 (E)	Below 1 Ω
S5-2 (WIP+) - S3-5 (L)	Below 1 Ω
S5-3 (W) - S3-3 (W)	Below 1 Ω
S5-12 (P) - S3-1 (P)	Below 1 Ω
S5-18 (SGND) - S3-2 (E)	Below 1 Ω
S5-2 (WIP+) - Body ground	10 kΩ or higher
S5-3 (W) - Body ground	10 kΩ or higher
S5-12 (P) - Body ground	10 kΩ or higher

- (d) Reconnect the the rear wiper motor assembly connector.
- (e) Reconnect the back door ECU connector.

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REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE BACK DOOR ECU

