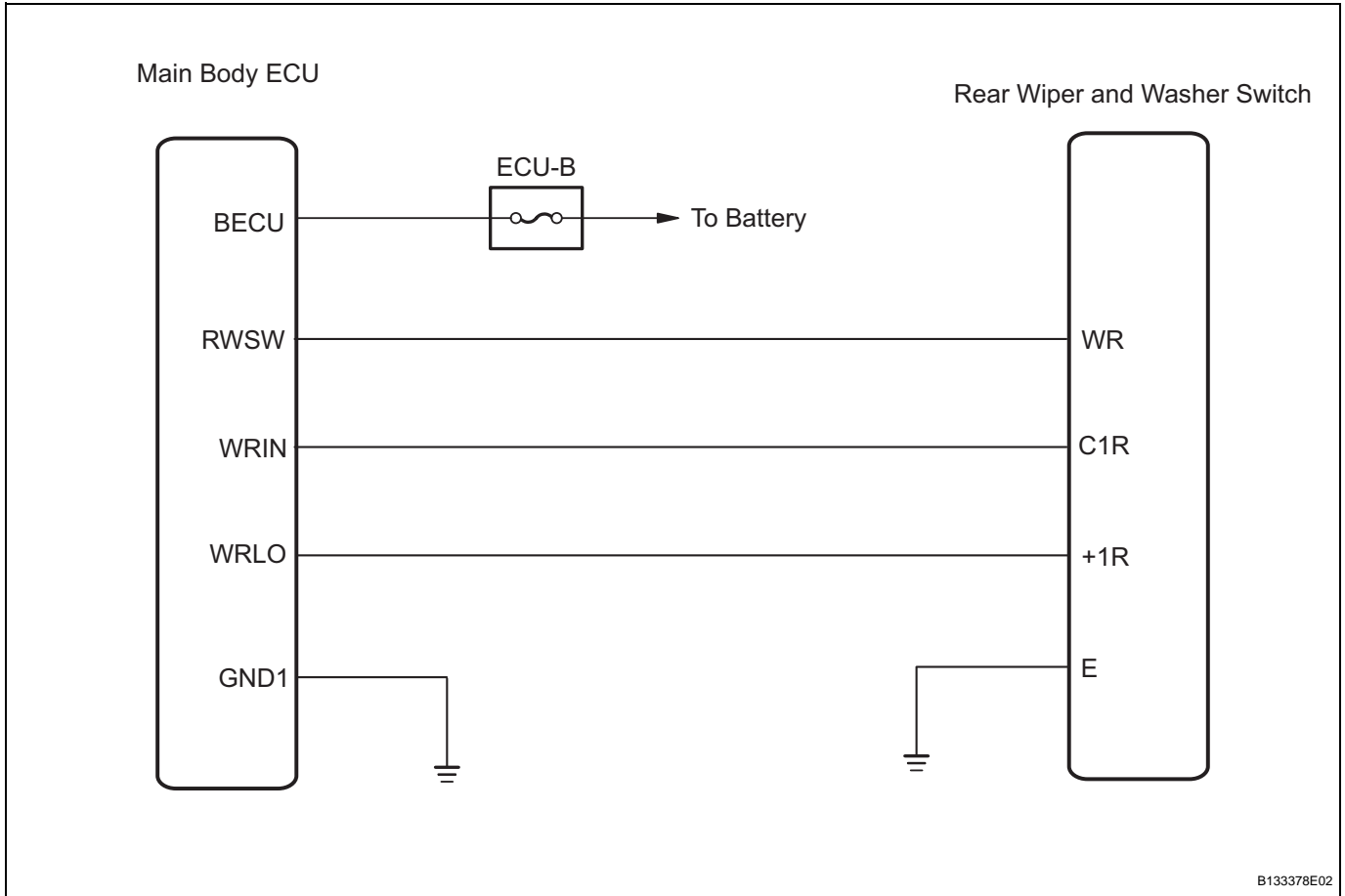


Wiper and Washer Switch Circuit

DESCRIPTION

The manual operation signals are sent to the main body ECU.

WIRING DIAGRAM



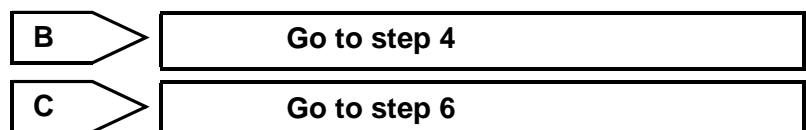
INSPECTION PROCEDURE

1 CHECK VEHICLE CONDITION

- (a) Check whether the rear wiper and washer systems operate normally.

Result

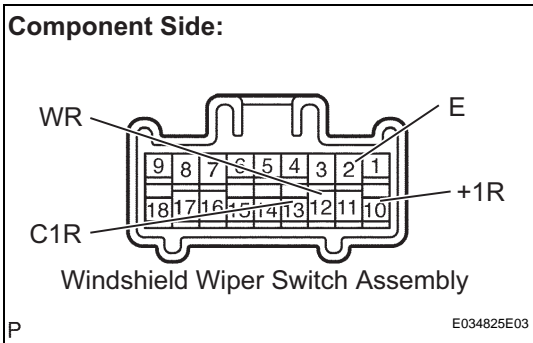
Condition	Proceed to
Rear wiper and washer systems do not operate.	A
Rear wiper system does not operate.	B
Rear washer system does not operate.	C



A

2 INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY

Component Side:



- (a) Remove the windshield wiper switch assembly.
- (b) Inspect the rear wiper switch.
 - (1) Measure the resistance.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
2 (E) - 13 (C1R) - 10 (+1R)	OFF	10 kΩ or higher
2 (E) - 13 (C1R)	LO	Below 1 Ω
2 (E) - 10 (+1R)	HI	Below 1 Ω

- (c) Inspect the rear washer switch.
 - (1) Measure the resistance.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
2 (E) - 10 (+1R) - 12 (WR)	OFF	10 kΩ or higher
2 (E) - 12 (WR)	ON (Rear wiper switch in OFF position)	Below 1 Ω
2 (E) - 10 (+1R) - 12 (WR)	ON (Rear wiper switch in ON position)	Below 1 Ω

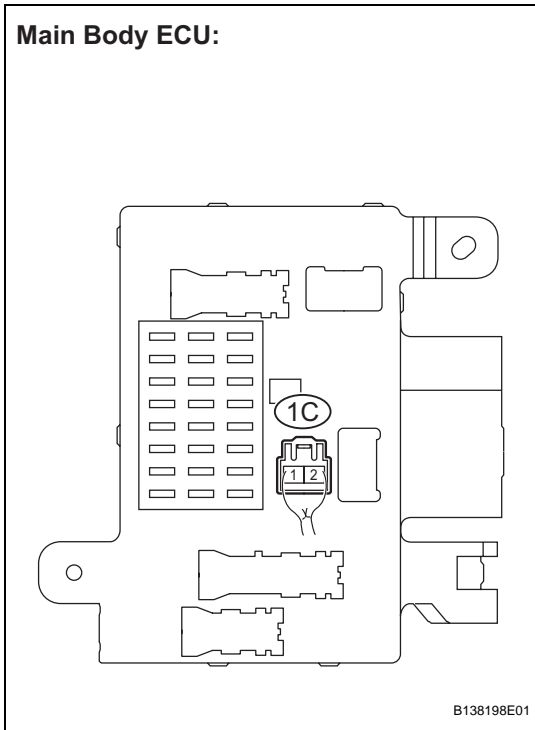
- (d) Reinstall the the windshield wiper switch assembly.

NG **REPLACE WINDSHIELD WIPER SWITCH ASSEMBLY**

OK

WW

3 CHECK HARNESS AND CONNECTOR (BATTERY - MAIN BODY ECU)



- (a) Measure the voltage.
Standard voltage

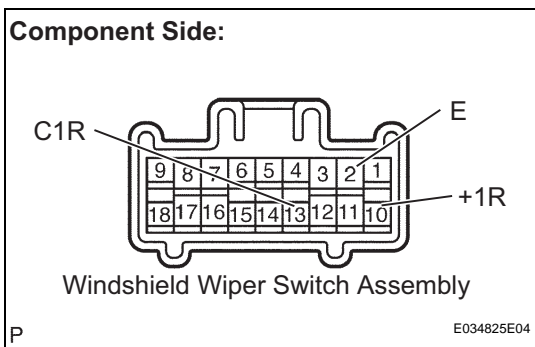
Tester Connection	Condition	Specified Condition
1C-2 (SIG) - Body ground	Ignition switch OFF	Below 1 V
1C-2 (SIG) - Body ground	Ignition switch ON	11 to 14 V

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

REPLACE MAIN BODY ECU

4 INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY



- (a) Remove the windshield wiper switch assembly.
(b) Measure the resistance.
Standard resistance

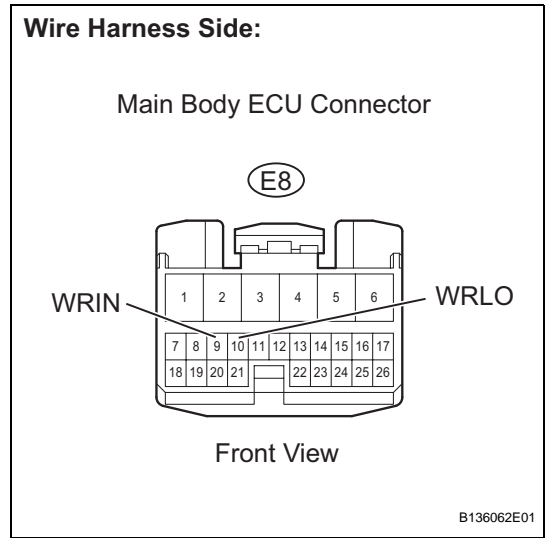
Tester Connection	Condition	Specified Condition
2 (E) - 13 (C1R) - 10 (+1R)	Rear wiper switch OFF	10 k Ω or higher
2 (E) - 13 (C1R)	Rear wiper switch LO	Below 1 Ω
2 (E) - 10 (+1R)	Rear wiper switch HI	Below 1 Ω

- (c) Reinstall the the windshield wiper switch assembly.

NG REPLACE WINDSHIELD WIPER SWITCH ASSEMBLY

OK

5 CHECK HARNESS AND CONNECTOR (WIPER SWITCH - MAIN BODY ECU, BODY GROUND)



- (a) Disconnect the E8 main body ECU connector.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E8-9 (WRIN) - E8-10 (WRLO) - Body ground	Rear wiper switch OFF	10 kΩ or higher
E8-9 (WRIN) - Body ground	Rear wiper switch LO	Below 1 Ω
E8-10 (WRLO) - Body ground	Rear wiper switch HI	Below 1 Ω

- (c) Reconnect the main body ECU connector.

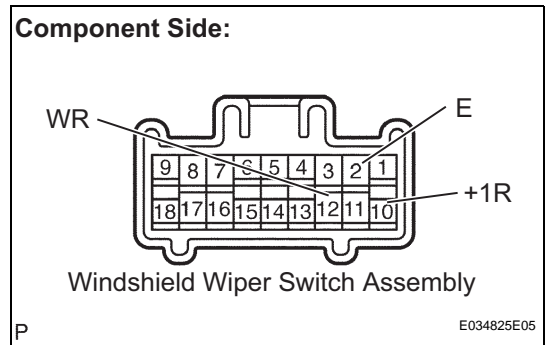
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

6 INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY



- (a) Remove the windshield wiper switch assembly.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
2 (E) - 10 (+1R) - 12 (WR)	Rear washer switch OFF	10 kΩ or higher
2 (E) - 12 (WR)	Rear washer switch ON (Rear wiper switch OFF position side)	Below 1 Ω
2 (E) - 10 (+1R) - 12 (WR)	Rear washer switch ON (Rear wiper switch ON position side)	Below 1 Ω

- (c) Reinstall the the windshield wiper switch assembly.

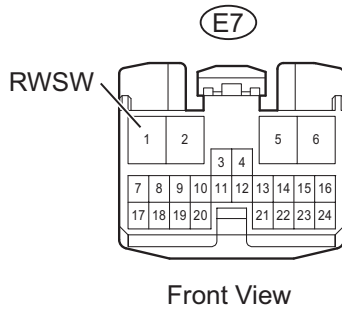
NG → **REPLACE WINDSHIELD WIPER SWITCH ASSEMBLY**

OK

7 CHECK HARNESS AND CONNECTOR (WIPER SWITCH - MAIN BODY ECU, BODY GROUND)

Wire Harness Side:

Main Body ECU Connector



B136063E01

- (a) Disconnect the E7 main body ECU connector.
- (b) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
E7-1 (RWSW) - Body ground	Rear washer switch OFF	10 kΩ or higher
E7-1 (RWSW) - Body ground	Rear washer switch ON (Rear wiper switch in ON position)	Below 1 Ω
E7-1 (RWSW) - Body ground	Rear washer switch ON (Rear wiper switch in OFF position)	Below 1 Ω

- (c) Reconnect the main body ECU connector.

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE