# Wiper and Washer Switch Circuit

# DESCRIPTION

This circuit detects the state of the wiper and washer switch and sends it to the windshield wiper relay assembly.



## WIRING DIAGRAM



## HINT:

Start the inspection from step 1 when using the intelligent tester, and start from step 2 when not using the intelligent tester.

WW–17

## **1** READ VALUE OF INTELLIGENT TESTER

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position and turn the tester main switch on.
- (c) Select the items below in the DATA LIST, and read the displays on the intelligent tester.

#### Wiper:

Item	Measurement Item / Display (Range)	Normal Condition	Diagnostic Note
WIPER LO SW	Wiper LO switch input / ON or OFF	ON: Front wiper switch is in LO position OFF: Front wiper switch is in any position other than LO	-
WIPER HI SW	Wiper HI switch input / ON or OFF	ON: Front wiper switch in HI position OFF: Front wiper switch is in any position other than HI	-
WIPER AUTO SW	Wiper AUTO switch input / ON or OFF	ON: Front wiper switch is in AUTO position OFF: Front switch is in any position other than AUTO	-

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### PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE

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#### 2 INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY

 (a) Inspect the windshield wiper switch assembly (See page WW-50).

Go to step 2

HINT:

Reconnect the connector.



REPLACE WINDSHIELD WIPER SWITCH ASSEMBLY

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#### INSPECT WINDSHIELD WIPER RELAY ASSEMBLY





(a) Disconnect the connector from the auto wiper ECU.

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

## Standard resistance

Condition	Specified Condition
Windshield wiper switch MIST position	Below 1 Ω
Windshield wiper switch AUTO position	Below 1 Ω
Windshield wiper switch LO position	Below 1 Ω
Windshield wiper switch HI position	Below 1 Ω
Rain sensor adjust switch "A" position	Below 1 Ω
Rain sensor adjust switch "B" position	<b>405 to 493</b> Ω
Rain sensor adjust switch "C" position	1,400 to 1,700 $\Omega$
Rain sensor adjust switch "D" position	2,200 to 3,200 $\Omega$
	Condition Windshield wiper switch MIST position Windshield wiper switch AUTO position Windshield wiper switch LO position Windshield wiper switch HI position Rain sensor adjust switch "A" position Rain sensor adjust switch "B" position Rain sensor adjust switch "C" position

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## REPAIR OR REPLACE HARNESS OR CONNECTOR

