

Wipers_Output_from_fuse_circuit	4008-F	611	14	6	1	Wiper Power Under Current	Check for open circuits to the wiper relays.
Wipers_Output_from_fuse_circuit	4008-F	611	14	6	2	Wiper Power Over Current	Check for a short to ground in the circuits to the wiper relays.
Wipers_Output_from_fuse_circuit	4008-F	611	14	6	3	Wiper Power Less than Normal	Check for a short in the circuits to the wiper relays.
Wipers_Output_from_fuse_circuit	4008-F	611	14	6	4	Wiper Power Greater than Normal	Check for excessive resistance or loose terminals in the circuits to the wiper relays.
Wipers_Output_from_fuse_circuit	4008-F	611	14	6	6	Wiper Power has Current Flow when Commanded Off	Check for a short to power in the circuits to the wiper relays.
Wiper_High_Speed_Cmd	4004-20	2033	14	8	1	Wiper Power Relay Output Overloaded	Check for short to power in the circuits between the power relay socket and the ESC. Check relay coil resistance
Wiper_High_Speed_Cmd	4004-20	2033	14	8	2	Wiper Power Relay Output Open Circuit	Check for an open in the circuits between the power relay socket and the ESC. Check relay coil resistance
Wiper_High_Speed_Cmd	4004-20	2033	14	8	3	Wiper Power Relay Output Shorted to Ground	Check for short to ground in the circuits between the power relay socket and the ESC. Check relay coil resistance
Wiper_Low_Speed_Cmd	4004-29	2033	14	14	1	Wiper Hi/Low Speed Relay Output Overloaded	Check for short to power in the circuits between the relay socket and the ESC. Check relay coil resistance
Wiper_Low_Speed_Cmd	4004-29	2033	14	14	2	Wiper Hi/Low Speed Relay Output Open Circuit	Check for an open in the circuits between the relay socket and the ESC. Check relay coil resistance
Wiper_Low_Speed_Cmd	4004-29	2033	14	14	3	Wiper Low Speed Relay Output Shorted to Ground	Check for short to ground in the circuits between the relay socket and the ESC. Check relay coil resistance

2. Make sure that you have ignition and accessory voltage to the Body Controller. If you don't have accessory voltage, the wipers won't work. For info on checking this, see [IK0800092](#).

3. Hook up with DLB and monitor the [Washer_Pump_Signal](#), [Wiper_0_Signal](#), [Wiper_1_Signal](#), and [Wiper_2_Signal](#). These are the inputs to the ESC from the switch.

- If there is a check mark next to the [Washer_Pump_Signal](#), the ESC thinks that the washer switch is being pushed all the time.

Wiper Switch Position	1600-22	1600-23	1600-24
Off	No Checkmark	No Checkmark	No Checkmark
Intermittent 1	Checkmark	No Checkmark	No Checkmark
Intermittent 2	No Checkmark	Checkmark	No Checkmark
Intermittent 3	Checkmark	Checkmark	No Checkmark
Intermittent 4	No Checkmark	No Checkmark	Checkmark
Intermittent 5	Checkmark	No Checkmark	Checkmark
Low	No Checkmark	Checkmark	Checkmark
High	Checkmark	Checkmark	Checkmark

4. Hook up your break out box to the 1600 connector and measure voltage on pin 28.

- You should have about 10 volts when the washer switch is not being pushed.
- You might have 0v or close to it. This means that you have a short to ground or a bad switch.
- If a short to ground is found, check the [Washer pump input circuit](#)

5. Measure voltage on pins 22, 23, and 24 of the 1600 connector through the breakout box.

- These pins are the inputs for the [Wiper_0_Signal](#), [Wiper_1_Signal](#), and [Wiper_2_Signal](#).
- You should have about 0 volts on each of these with the wiper switch turned off. Each of the three switches in the multifunction switch are normally closed. When the switch is moved to another position, the switch will open and the corresponding wire will show the voltage output from the body controller.
- If you have voltage on any of these with the switch turned off, you have an open in that circuit

CIRCUIT DIAGRAMS

- [Wiper Output Schematics](#)
- [Wiper Input Schematics](#)
- For advanced interactive [Circuit Diagrams, click here](#). This diagram is a good place to see how the system works.
- [Electrical System Troubleshooting Guide - Wipers](#)

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