

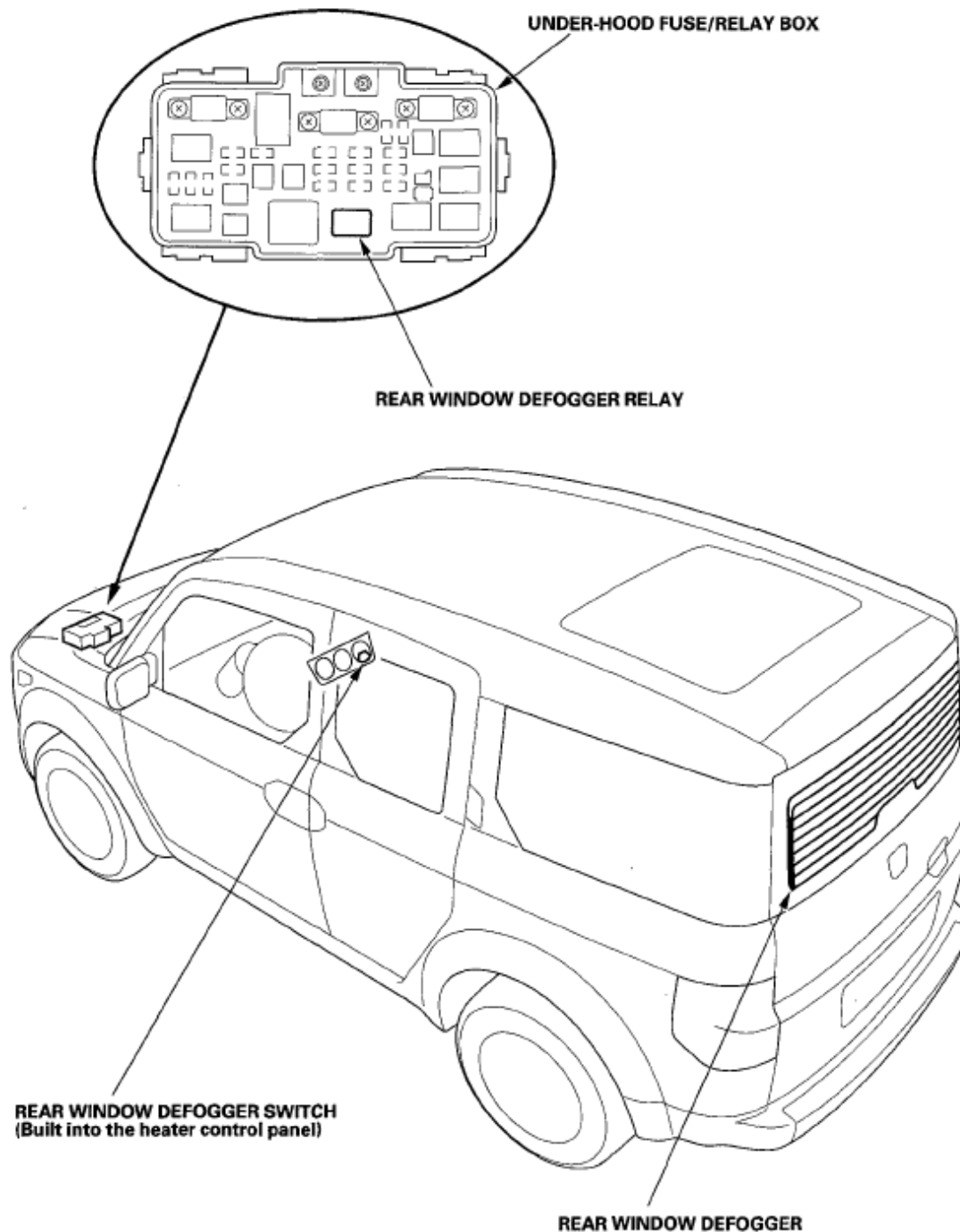
## 2007 Honda Element EX

2007-08 ACCESSORIES AND EQUIPMENT Rear Window Defogger - Element

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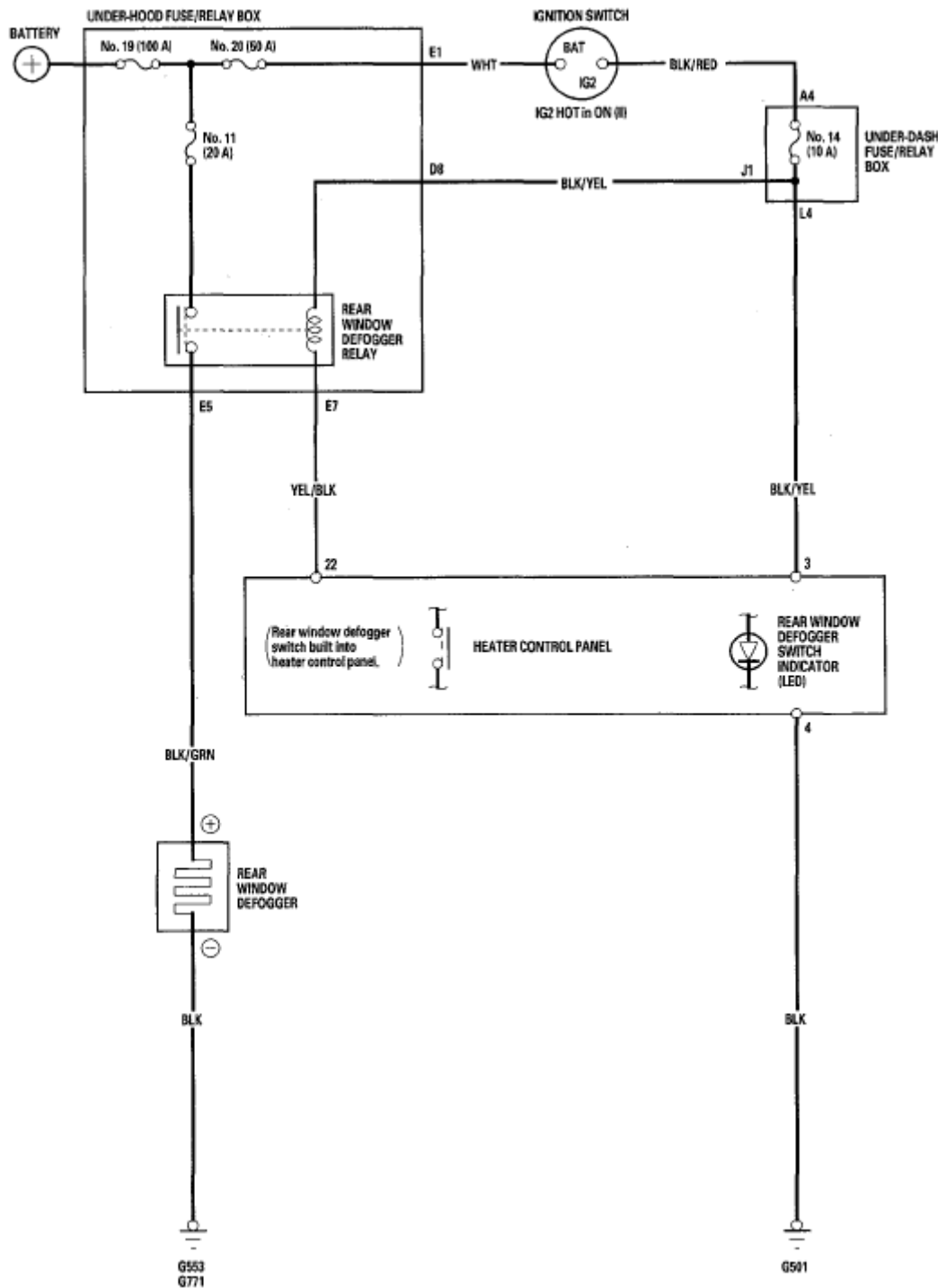
#### Rear Window Defogger - Element

### COMPONENT LOCATION INDEX



**Fig. 1: Identifying Rear Window Defogger Components Location**

**CIRCUIT DIAGRAM**



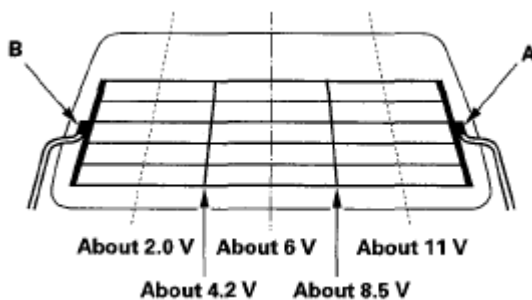
**Fig. 2: Rear Window Defogger Circuit Diagram**

## FUNCTION TEST

### NOTE:

- Be careful not to scratch or damage the defogger wires with the tester probe.
- Before testing, check the No. 11 (20 A) fuse in the under-hood fuse/relay box and the No. 14 (10 A) fuse in the under-dash fuse/relay box.

1. Measure voltage between the positive terminal (A) and body ground with the ignition switch and the defogger switch ON. There should be battery voltage.
  - If there is no voltage, check for:
    - Faulty rear window defogger relay.
    - Faulty heater control panel.
    - An open in the BLK/GRN wire to the positive terminal.
  - If there is voltage, go to step 2.



**Fig. 3: Identifying Voltage Between Positive Terminal And Body Ground**

2. Disconnect the negative terminal (B) from the rear window defogger.
3. Check for continuity between the negative terminal (B) and body ground.

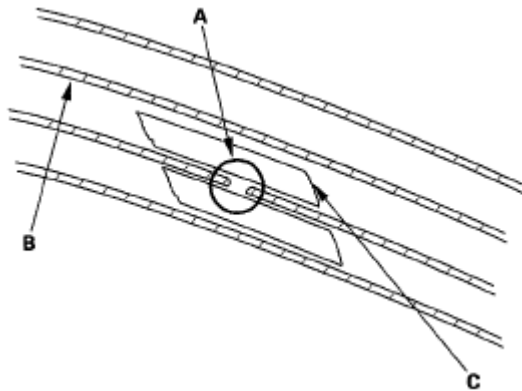
If there is no continuity, check for an open in the wire or poor ground (G553 and G771). If there is continuity, go to step 4.

4. Reconnect the negative terminal to the rear window defogger.
5. Turn the ignition switch ON (II) and the rear window defogger switch ON.
6. Touch the voltmeter positive probe to each point on each defogger wire, and the negative probe to the negative terminal.
  - If the voltage is as specified, the defogger wire up to that point is OK.
  - If the voltage is not as specified, repair the defogger wire.
    - If it is more than specified at one of the points, there is a break in the negative half of the wire.
    - If it is less than specified at one of the points, there is a break in the positive half of the wire.

## DEFOGGER WIRE REPAIR

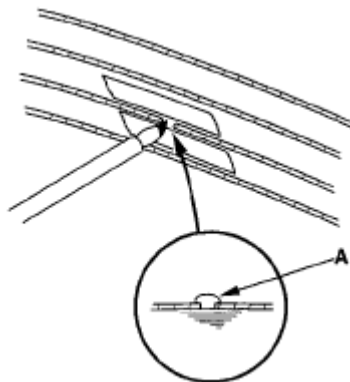
**NOTE:** To make an effective repair, the broken section must be no longer than one inch.

1. Lightly rub the area around the broken section (A) with fine steel wool, then clean it with isopropyl alcohol.



**Fig. 4: Identifying Transparent Tape And Broken Portion Of Rear Window Defogger Wire**

2. Carefully mask above and below the broken portion of the rear window defogger wire (B) with transparent tape (C).
3. Using a small brush, apply a heavy coat of silver conductive paint (commercially available rear window defogger grid repair material) extending about 1/8" on both sides of the break. Thoroughly mix the paint before use. Allow 30 minutes to dry.



**Fig. 5: Applying Silver Conductive Paint On Both Sides Of Break**

4. Check for continuity in the repaired wire.
5. Apply a second coat of paint in the same way. Let it dry 3 hours before removing the tape.