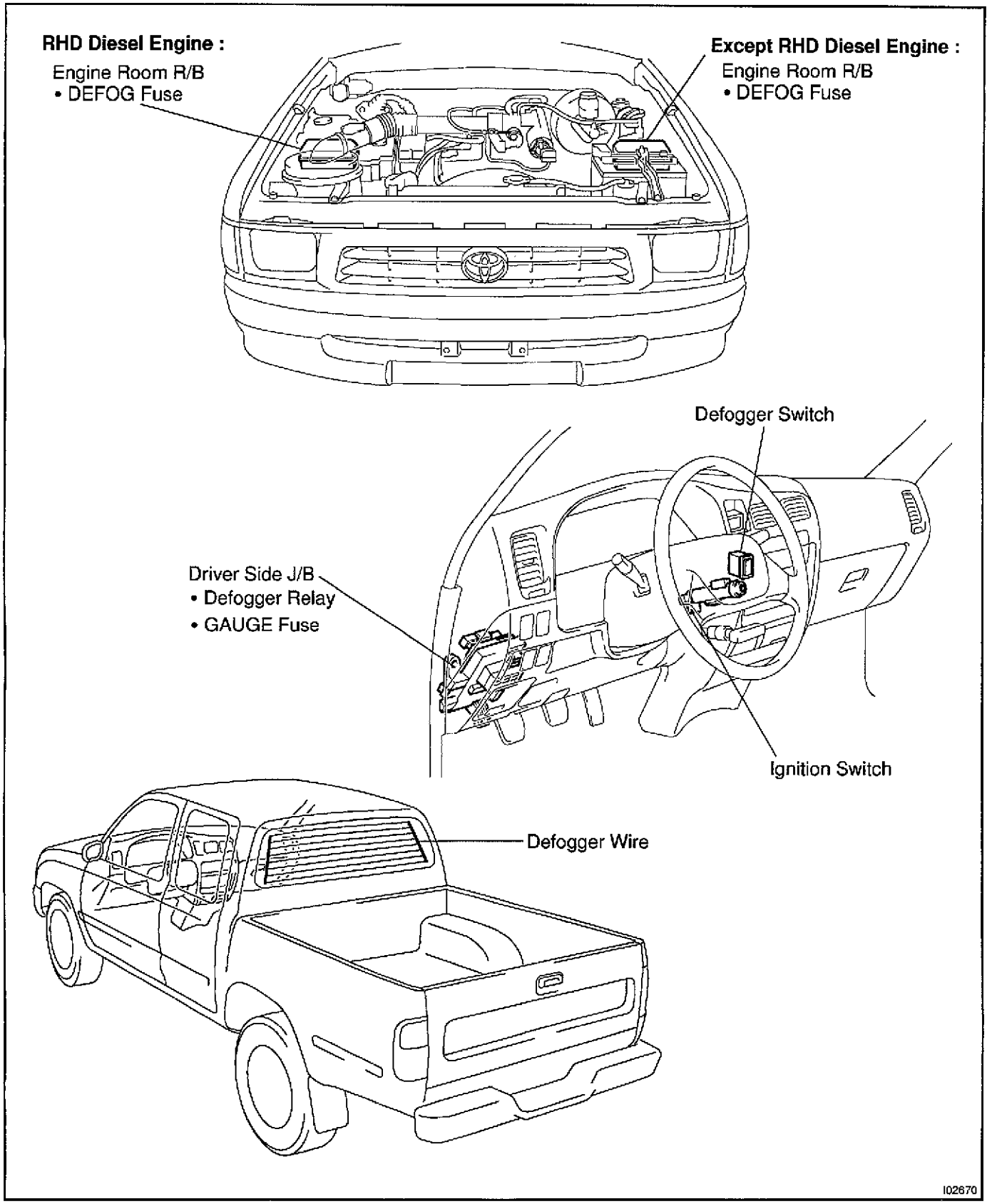
# DEFOGGER SYSTEM

## LOCATION

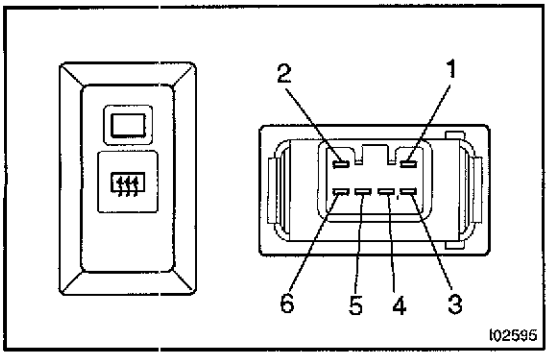
BE03F–01



BE0BG-01

# INSPECTION

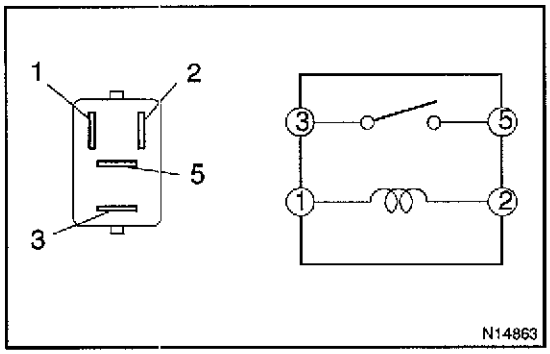
## 1. INSPECT DEFOGGER SWITCH OPERATION




| Switch position | Tester connection | Specified condition |
|---|---|---|
| OFF | – | No continuity |
| ON | 3 – 6 | Continuity |
| Illumination circuit | 1 – 4 | Continuity |

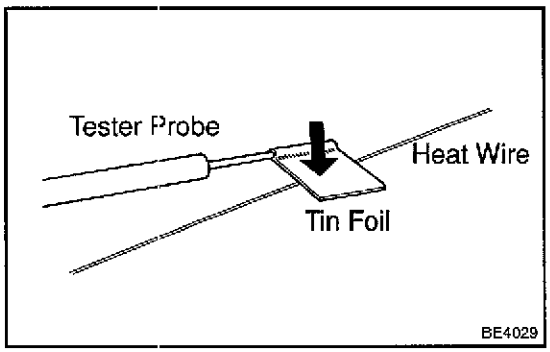
If continuity is not as specified, replace the switch.

## 2. INSPECT DEFOGGER RELAY CONTINUITY




| Condition | Tester connection | Specified condition |
|---|---|---|
| Constant | 1 – 2 | Continuity |
| Apply B+ between terminals 1 and 2. | 3 – 5 | Continuity |

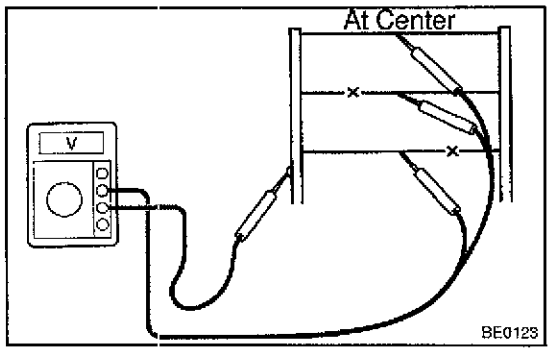
If continuity is not as specified, replace the relay.




## 3. INSPECT DEFOGGER WIRE

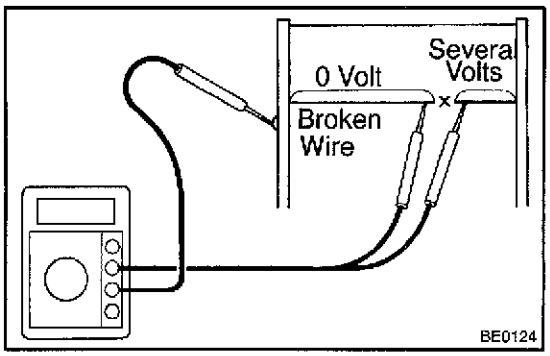
**NOTICE:**

- **When cleaning the glass, use a soft, dry cloth, and wipe the glass in the direction of the wire. Take care not to damage the wires.**
- **Do not use detergents or glass cleaners with abrasive ingredients.**
- **When measuring voltage, wrap a piece of tin foil around the top of the negative probe and press the foil against the wire with your finger, as shown.**




(a) Turn the ignition switch ON.
(b) Turn the defogger switch ON.
(c) Inspect the voltage at the center of each heat wire, as shown.

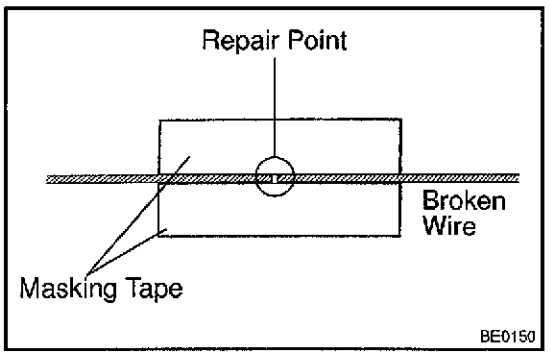
| Voltage | Criteria |
|---|---|
| Approx. 5V | Okay (No break in wire) |
| Approx. 10V or 0V | Broken wire |




HINT:
If there is approximately 10 V, the wire is broken between the center of the wire and the positive (+) end. If there is no voltage, the wire is broken between the center of the wire and ground.

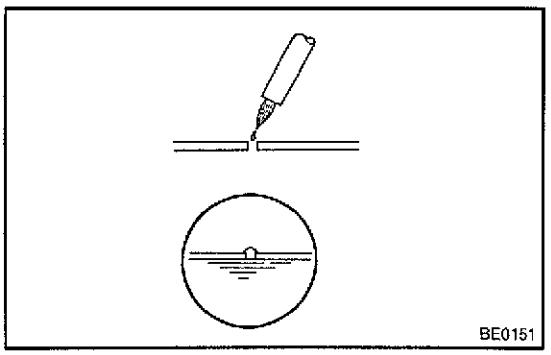
(d) Place the voltmeter positive (+) lead against the defogger positive (+) terminal.
(e) Place the voltmeter negative (–) lead with the foil strip against the heat wire at the positive (+) terminal end and slide it toward the negative (–) terminal end.
(f) The point where the voltmeter deflects from zero to several V is the place where the heat wire is broken.

HINT:
If the heat wire is not broken, the voltmeter indicates 0 V at the positive (+) end of the heat wire but gradually increases to about 12 V as the meter probe is moved to the other end.




**4. IF NECESSARY REPAIR DEFOGGER WIRE**

(a) Clean the broken wire tips with a grease, wax and silicone remover.
(b) Place the masking tape along both sides of the wire to be repaired.
(c) Thoroughly mix the repair agent (Dupont paste No.4817).




(d) Thoroughly mix the repair agent (Dupont paste No.4817 or equivalent).
(e) Using a fine tip brush, apply a small amount to the wire.
(f) After a few minutes, remove the masking tape.
(g) Allow the repair to stand at least 24 hours.