

## NOTE —

Some cars covered by this manual may have an alternate cooling fan switch with switching temperatures of 176°/190°F (80°/88°C). When replacing the switch check the switching specifications, which should be stamped on the switch body.

1. If coolant is circulating at normal operating temperature, but auxiliary cooling fan does not run, disconnect connector from radiator temperature switch and make tests listed in **Table c**.

**Table c. Auxiliary Cooling Fan Temperature Switch Tests**

Wires jumpered	Test conditions	Test results
Black/green (terminal 2) and brown (terminal 1)	Ignition ON	Fan runs on low speed
Black/gray (terminal 3) and brown (terminal 1)	Ignition ON	Fan runs on high speed

2. If fan runs only when powered directly by jumpered connector and hot coolant is circulating through radiator, radiator temperature switch is most likely faulty. Use a new sealing ring when replacing switch

## Tightening Torque

- Temperature switch to radiator . . . . . 15 Nm (11 ft-lb)

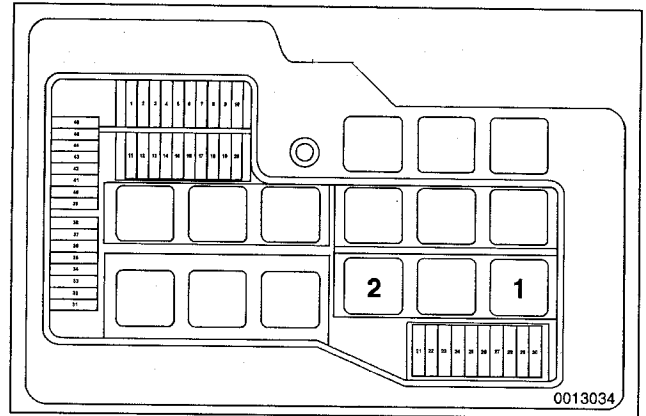
3. If auxiliary fan does not run when powered directly, check for battery voltage at temperature switch connector (black/green wire) with ignition on. If battery voltage is not present, check fuses. See **610 Electrical Component Locations**.

## Auxiliary Cooling Fan Circuit Fuses

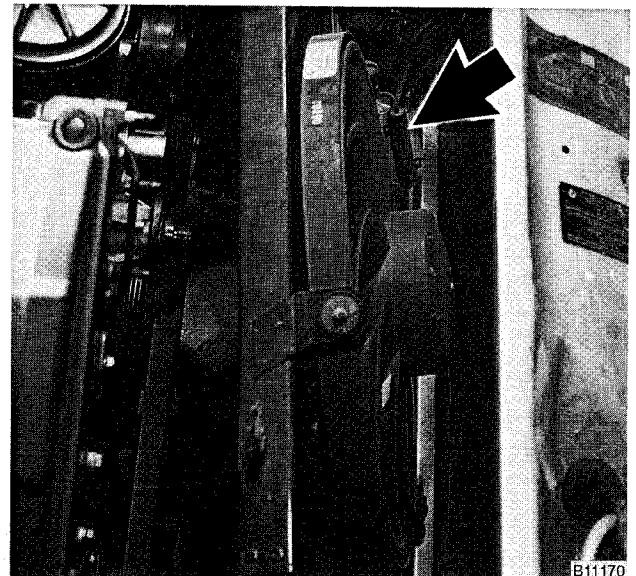
- Fuse 16 . . . . . 5 amp
- Fuse 41 (ex. M44 w/man. trans) . . . . . 30 amp
- Fuse 48 (M44 w/man. trans. only) . . . . . 40 amp

4. If no faults are found, remove low speed relay and turn ignition ON. See Fig. 4.
  - Check for power at terminal 30 and terminal 86 of relay socket.
  - Reinstall low speed relay and repeat test at high speed relay socket. Fix any wiring faults found.

On early production cars (up to 9/92): If fan operates only on high speed and no electrical faults have been found up to this point, use an ohmmeter to check that fan resistor is not electrically open. Resistor is mounted on auxiliary cooling fan housing behind front grille. See Fig. 5. Wiring diagrams for the radiator cooling fan can be found under **Electrical Wiring Diagrams**.



**Fig. 4.** Auxiliary radiator cooling fan low speed relay (1) and high speed relay (2) in power distribution box. (Relay locations may vary.)



**Fig. 5.** Auxiliary radiator fan resistor (arrow).

## COOLING SYSTEM SERVICE

### Coolant, draining and filling

1. Remove expansion tank cap. Set temperature controls to full warm.

#### WARNING —

Allow the cooling system to cool before opening or draining the cooling system.

2. Place 3-gallon pail beneath radiator drain plug and remove drain plug. See Fig. 6.
3. Place 3-gallon pail beneath rear of engine block. Loosen and remove engine block coolant drain plug.

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