



## 16738 Single Stage Electric Fan Thermostat Installation Instructions

*Thank you for buying a Derale electric fan thermostat.  
Please read these instructions completely before starting the installation.*



Bill of Materials	Quantity
Wire Harness	1
Relay	1
Thermostat Switch	1
Brass Probe	1
Retaining Clip	1
Foam Pad	1
# 14 Metal Screw	1
Blue Ring Connector	1
Blue Butt Connector	3
Scotch-loc Connector	1

The single stage electric fan thermostat will control up to two electric fans with a maximum amperage draw of 25 continuous amps. This unit includes a 30-amp relay, wiring harness and an air-conditioning override circuit to activate the fan whenever the AC is on. On vehicles without AC, this lead can be used as a manual override. See wiring instructions below.

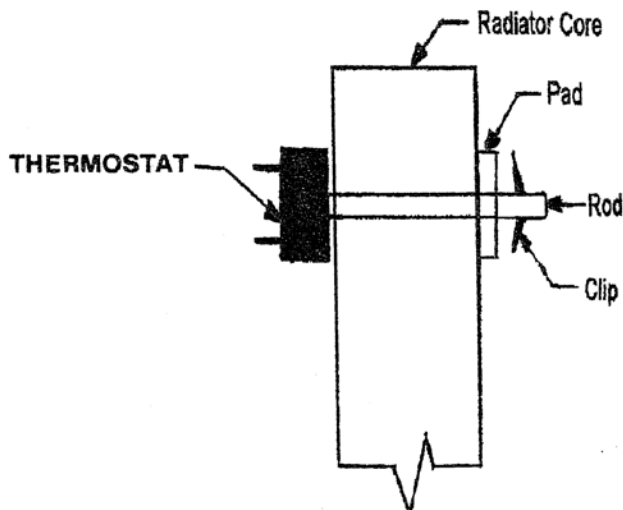
### Relay/Wire Harness Installation

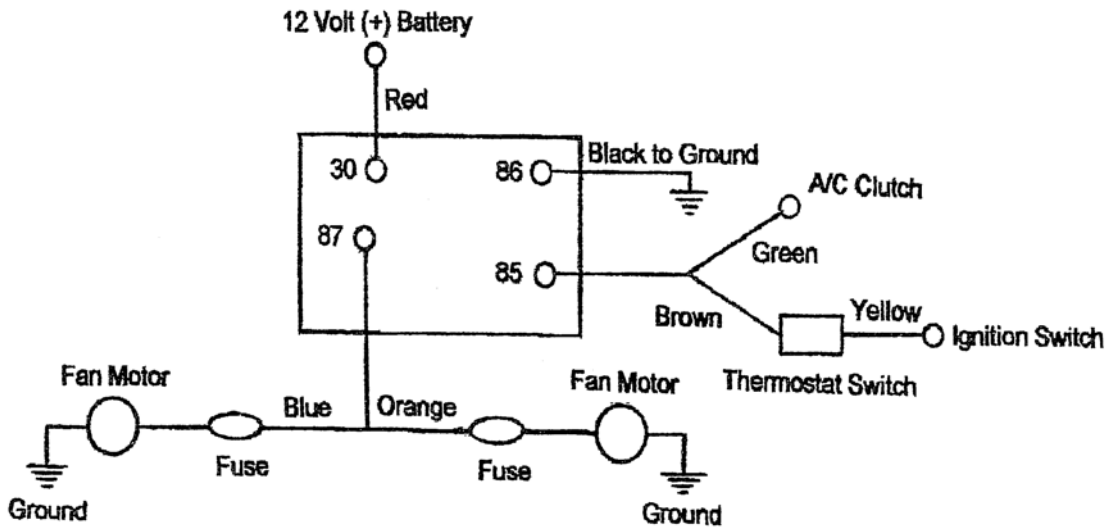
1. Mount the relay/wire harness in a convenient location, taking into account the probe placement and wire routing, be sure to avoid any hot components.
2. Drill one 3/16" hole and use supplied #14 metal screw to mount relay/wire harness.

### Thermostat Probe Installation

1. Thread brass probe on to thermostat switch
2. Insert the probe/switch between the fins of the radiator core, as close to the water inlet as possible. Keep pushing the probe through the radiator core until it is flush against the radiator.
3. After inserting the probe/switch through the radiator core, install foam pad and clip on probe and push until tight.

**Note: Placement of the probe can affect turn-on temperature. If you would like to change the activation temperature, try moving the probe/switch to a different location on radiator.**





## Wiring

**Orange:** Attach to fan positive (+) lead. Attach other fan motor lead to a good chassis ground.

**Red:** Attach to positive (+) battery terminal.

**Yellow:** Attach one side to an ignition switched 12-volt source. Attach other side to either wire lead on thermostat switch. If this wire is hooked up to a constant source (like the battery) the fan will continue to run after the vehicle is shut off and could run down the battery.

**Brown:** Attach to unused wire lead on thermostat probe.

**Green:** Attach to positive (+) wire on air conditioning clutch. This runs fan whenever the AC is on. **Black:** Attach to a good chassis ground. Do the same with the ground lead off the fan motor.

**Blue:** When using dual fans, attach to second fan positive (+) lead

## Troubleshooting

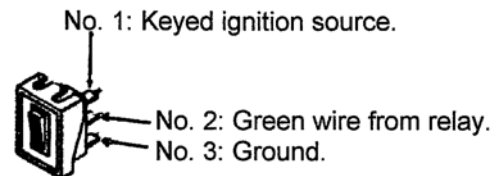
Fan will not turn on.

2. With ignition on, use a 12-volt test light to check red and yellow wires for voltage. You must have voltage for the fan to run.
3. Make sure engine is up to operating temperature.
4. With ignition on, check temp switch by jumping across the two wire leads.
5. Check ground for a good connection, sand any paint for a metal to metal contact.

## Manual Switch Override

The Air conditioning override circuit (Green wire) can also be used as a manual override. **Note: You cannot use the green wire for both AC and manual override.**

If you are not using air conditioning and want a manual override, see drawing below for diagram with Derale switch.



Fan runs with ignition off.

1. Check yellow wire, it must be connected to an ignition switched source.

Fan turns on late or at high temperature.

1. Move probe to another location further from water inlet.



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