

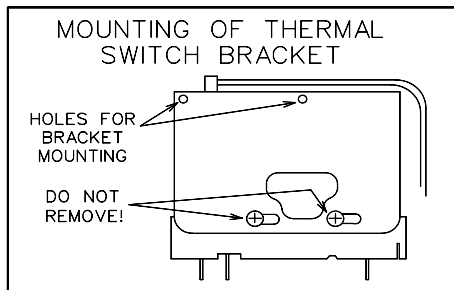


## THERMAL SWITCH INSTALLATION INSTRUCTIONS

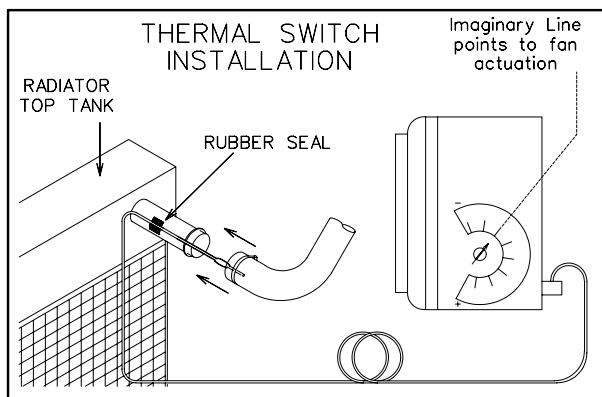
### BEFORE BEGINNING INSTALLATION, READ THESE INSTRUCTIONS FULLY.

#### INSTALLATION OF THERMAL SWITCH

1. When the engine is cold remove the top radiator hose at the radiator end.
2. Mount the Thermal Switch to the bracket provided using the two small self-tapping screws provided. The holes are not threaded in order to provide a good fastening. Do not remove the two large screws holding the thermal switch together. **IF THEY ARE REMOVED THE WARRANTY WILL BECOME VOID!**



3. Mount the bracket onto a panel near the radiator so that the copper bulb will easily reach into the top radiator hose. Ensure that the adjustment shaft is accessible. Fix the bracket in place with the two large self-tapping screws provided.
4. Lay the rubber seal along the radiator ferrule and place a section of the copper capillary of the Thermal Switch down the groove in the rubber seal. Keep the copper capillary loosely coiled and avoid sharp bends. Do not pass the copper bulb further down the hose than is necessary as the constant movement of the engine in relation to the radiator may cause fatigue of the capillary. The seal and tube may be held in place with insulation tape.



Fit the hose and clamp so that the clamp is over the centre of the rubber seal and the clamp screw is in the opposite side of the tube to the capillary and seal. *A good silastic type sealant may be used if there is a persistent leak.*

5. Top up the radiator with the appropriate coolant.
6. The Thermal Switch merely completes the connection of any wire in the fan(s) operation circuit. If you are not following the wiring diagram from a Davies, Craig Thermatic Fan Kit simply wire up your fan(s) as shown in the wiring diagram overleaf.

**WARNING:** Do not use the vehicle's engine management system or wiring connected to the management system as an ignition source as it may cause failure of the management system and/or the electrical system. The ignition source must be a steady positive supply of 12-14VDC

#### SETTING THE ADJUSTABLE THERMAL SWITCH

1. Turn on the ignition and turn the adjustment shaft of the Thermal Switch anti-clockwise until a distinct "click" is heard. The fan(s) should run. If no "click" is heard, partially warm the engine to bring the engine temperature into the range of the Thermal Switch.
2. Check that the fan(s) rotate in the correct direction. If the fan(s) rotate in the wrong direction swap the two wires connected to the motor leads, (reversing the polarity).
3. Ensure that all electrical connections are permanent and properly insulated and that all wiring is fitted so as to avoid sharp edges and hot parts of the engine.
4. Turn the adjustment fully clockwise.
5. Run the engine until the engine temperature is about halfway between "normal highway operating temperature" and "too hot". This will indicate a coolant temperature between 5 and 10 degrees C higher than normal.
6. Immediately turn the adjustment shaft very slowly anti-clockwise, just until the fan(s) switch on, and no more.
7. Allow the fans to run long enough to reduce the temperature by approximately the thickness of the temperature gauge needle before the Thermal Switch turns the fan(s) off. On a cool day it should run between 30 and 60 seconds at a time, on a hot day somewhat longer.

**NOTE:** If the fan(s) run for more than a few minutes at a time, turn the adjustment clockwise slightly to increase the cut-in temperature. The fan(s) must be set to cut-in above normal operating temperature otherwise they will run more frequently and for longer periods than necessary, and you may not achieve all the benefits of electric fan cooling.

**NOTE:** Remember that coolant under pressure in a radiator boils at about 118 degrees C.

**FAILURE TO COMPLY WITH ALL THE INSTRUCTIONS MAY INVALIDATE THE MANUFACTURERS WARRANTY.**

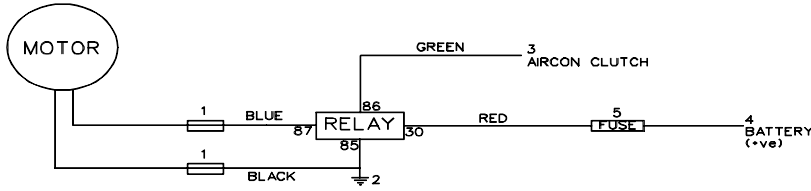
If in any doubt about any of these instructions consult your retailer or DAVIES, CRAIG direct on (03) 9369-1234.

**WIRING DIAGRAMS:** These refer to wiring and connectors present in the Davies, Craig range of Thermatic Fan Kits.

**WARRANTY:** We hereby guarantee that for a period of two years or 1500 hours (whichever is the lesser) from the date hereof we shall carry out any repairs that are reasonably necessary to correct any fault in the operation of your Thermal Switch provided that such a fault is directly attributable to a defect in workmanship or materials used in the manufacture of the Thermal Switch. Labour and consequential damages are not included in this warranty.

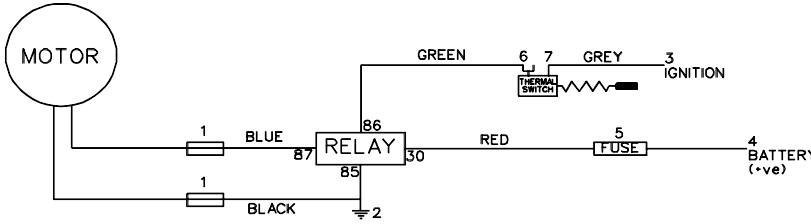
**1 ONE FAN, CONDENSER ONLY**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
- PURCHASE: 1 KIT**



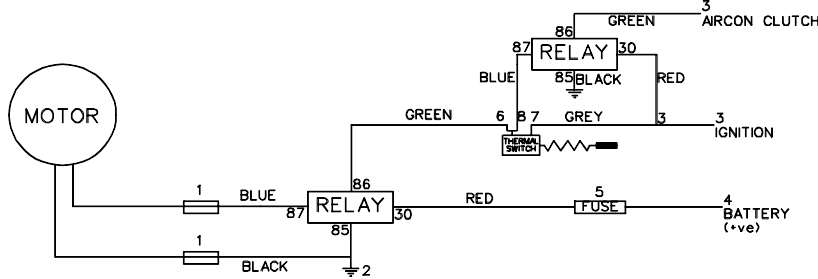
**2 ONE FAN, THERMATIC ONLY**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
  - 6 FEMALE SPADE RED
  - 7 FEMALE SPADE RED
- PURCHASE: 1 KIT, 1 THERMAL SWITCH**



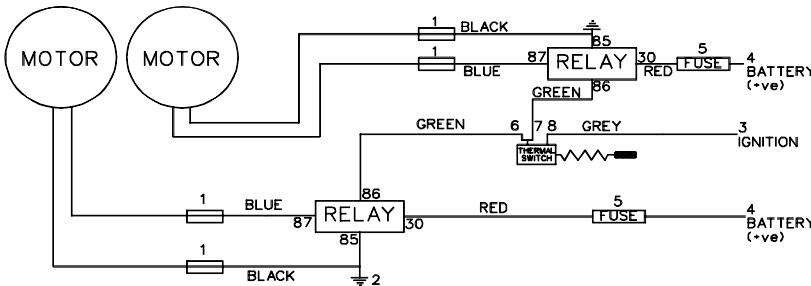
**3 ONE FAN, CONDENSER AND THERMATIC**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
  - 6 FEMALE SPADE RED
  - 7 FEMALE SPADE RED
  - 8 FEMALE SPADE RED
- PURCHASE: 1 KIT, 1 THERMAL SWITCH & RELAY**



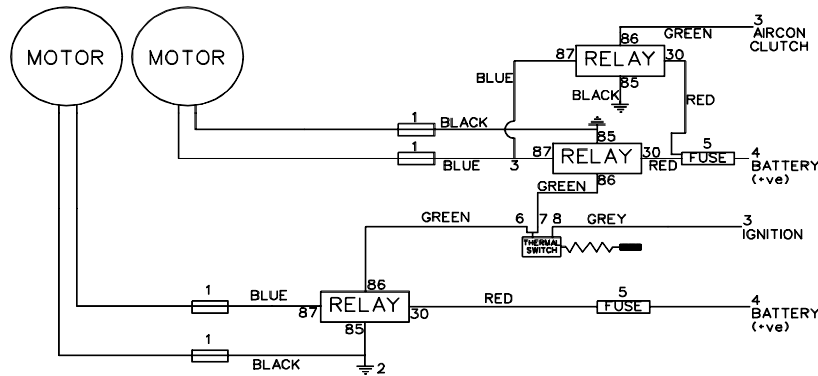
**4 TWIN FANS, THERMATIC ONLY**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
  - 6 FEMALE SPADE RED
  - 7 FEMALE SPADE RED
  - 8 FEMALE SPADE RED
- PURCHASE: 2 KITS, 1 THERMAL SWITCH**



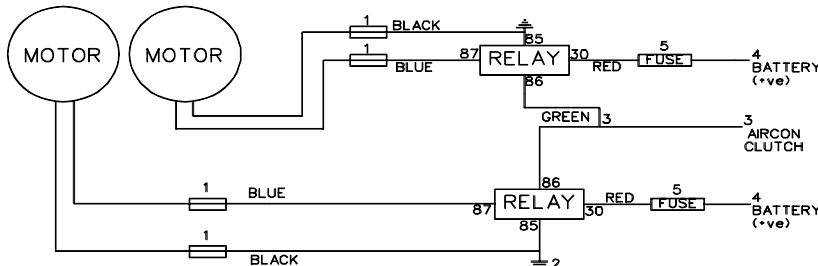
**5 TWIN FAN, THERMATIC SINGLE FAN CONDENSER**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
  - 6 FEMALE SPADE RED
  - 7 FEMALE SPADE RED
  - 8 FEMALE SPADE RED
- PURCHASE: 2 KITS, 1 THERMAL SWITCH & RELAY**



**6 TWIN FANS, CONDENSER ONLY**

- 1 BLUE CONNECTOR
  - 2 SELF TAPPER
  - 3 SCOTCHLOCK
  - 4 RING TERMINAL
  - 5 FUSE HOLDER & FUSE
- PURCHASE: 2 KITS**



COLOUR OF MOTOR LEADS DEPENDS ON FAN LOCATION UPSTREAM/DOWNSTREAM  
IF IN DOUBT REFER ROTATION AND POLARITY CHAR[1]