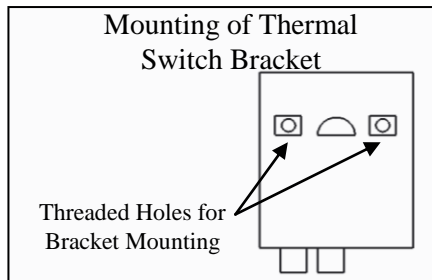


**PART NO. 0401 & 0404 - THERMAL SWITCH INSTALLATION INSTRUCTIONS
(12 & 24 VOLT) BEFORE BEGINNING INSTALLATION, READ THESE INSTRUCTIONS FULLY.**

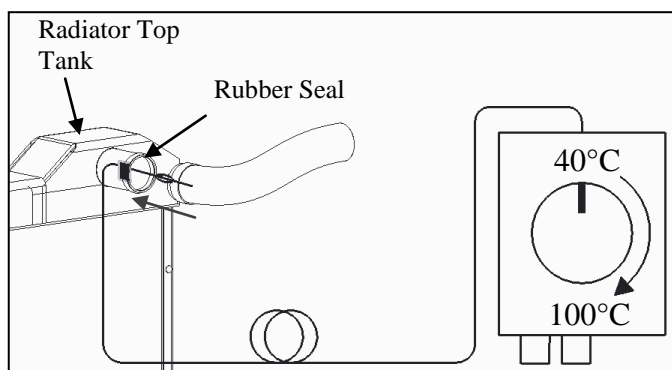
Note: For automobile applications, controller terminals marked as "H" & "C" (terminal 6 & 7 in wiring diagram) can be used for either ignition or to the relay positive. The earth terminal on controller (not shown in wiring diagrams) is not applicable for automobile applications.

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 using the two small screws provided. 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 stainless steel 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 stainless steel capillary of the Thermal Switch down the groove in the rubber seal. Keep the capillary loosely coiled and avoid sharp bends. Do not pass the 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 useful if there is a persistent leak.*

5. Top up the radiator with the appropriate coolant.
6. For wiring purposes, please refer to appropriate 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 12-24VDC.

SETTING THE ADJUSTABLE THERMAL SWITCH

1. Install control knob on the shaft.
2. Turn on the ignition and rotate the adjustment knob anti-clockwise until it stops. The fan(s) will run if the engine temperature is above 40°C – if the fan(s) do not cut in, partially warm the engine to bring the engine temperature into the range of the Thermal Switch.
3. 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).
4. 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.
5. Turn the adjustment knob fully clockwise.
6. 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°C and 10°C higher than normal.
7. Immediately turn the adjustment shaft very slowly anti-clockwise, just until the fan(s) switch on, and no more.
8. Allow the fan(s) 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°C.

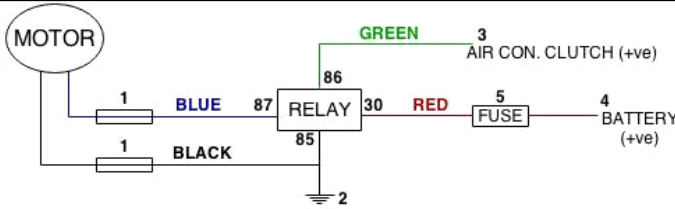
FAILURE TO COMPLY WITH ALL THE INSTRUCTIONS OR TAMPERING WITH THE PRODUCT MAY INVALIDATE THE MANUFACTURERS WARRANTY.

If in any doubt about any of these instructions, consult your retailer or DAVIES, CRAIG direct on +61 (3) 9369 1234.

WARRANTY: We hereby guarantee that for a period of 2 years from the date hereof we shall replace your Electronic Thermal Switch, if it is faulty, provided that such a fault is directly attributable to a defect in workmanship or materials used in the manufacture of the Electronic Thermal Switch. Labour and consequential costs are excluded.

Register Warranty at:

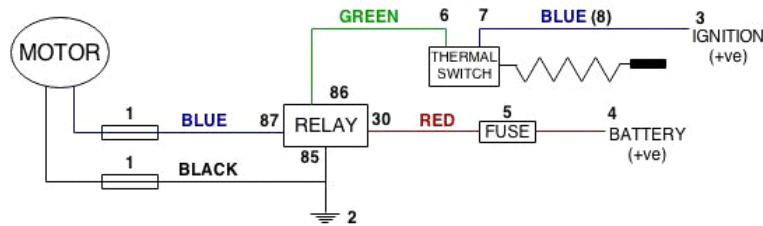
www.daviescraig.com.au



1 ONE FAN, CONDENSER ONLY

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

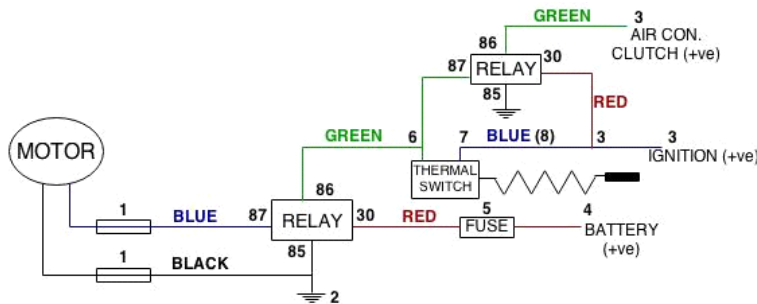
WARNING: ENSURE IGNITION SOURCE IS NOT CONNECTED TO THE ENGINE MANAGEMENT SYSTEM



2 ONE FAN, THERMATIC ONLY

- 1 BLUE CONNECTOR (FROM FAN KIT)
 - 2 SELF TAPPER (FROM FAN KIT)
 - 3 SCOTCHLOCK (FROM FAN KIT)
 - 4 RING TERMINAL (FROM FAN KIT)
 - 5 FUSE HOLDER & FUSE (FROM FAN KIT LOOM)
 - 6 FEMALE SPADE BLUE (FROM THERMAL SWITCH KIT)
 - 7 FEMALE SPADE BLUE (FROM THERMAL SWITCH KIT)
 - 8 COILED BLUE WIRE (FROM THERMAL SWITCH KIT)
- PURCHASE: 1 FAN KIT, 1 THERMAL SWITCH KIT P/NO: 0401**

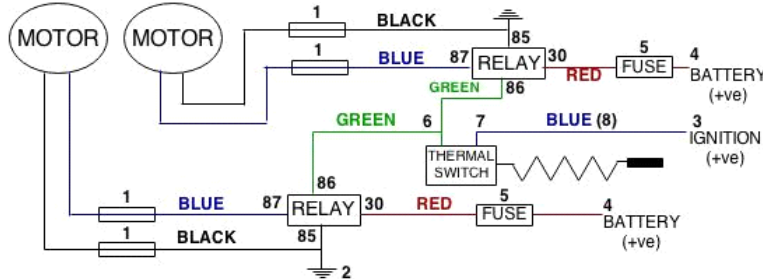
WARNING: ENSURE IGNITION SOURCE IS NOT CONNECTED TO THE ENGINE MANAGEMENT SYSTEM



3 ONE FAN, CONDENSER AND / OR THERMATIC

- 1 BLUE CONNECTOR (FROM FAN KIT)
 - 2 SELF TAPPER (FROM FAN & THERMAL SWITCHKIT)
 - 3 SCOTCHLOCK (FROM FAN & THERMAL SWITCHKIT)
 - 4 RING TERMINAL (FROM FAN KIT)
 - 5 FUSE HOLDER & FUSE (FROM FAN KIT LOOM)
 - 6 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 7 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 8 COILED BLUE WIRE (FROM THERMAL SWITCHKIT)
- PURCHASE: 1 FAN KIT, 1 THERMAL SWITCH & RELAY KIT P/NO: 0404**

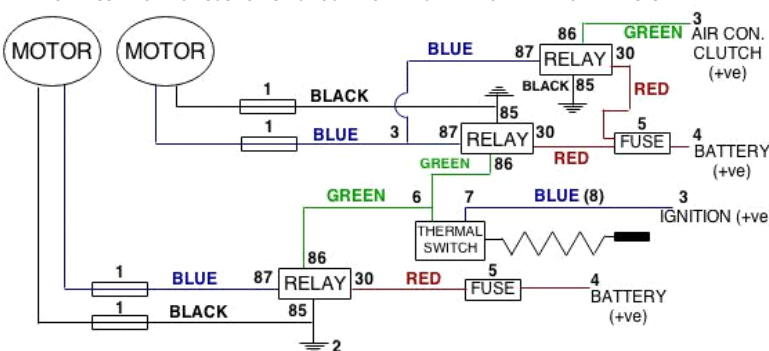
WARNING: ENSURE IGNITION SOURCE IS NOT CONNECTED TO THE ENGINE MANAGEMENT SYSTEM



4 TWIN FANS, THERMATIC ONLY

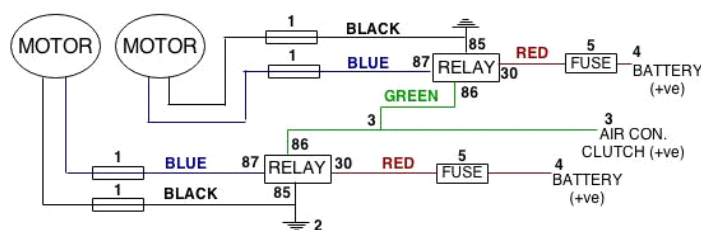
- 1 BLUE CONNECTOR (FROM FAN KITS)
 - 2 SELF TAPPER (FROM FAN KITS)
 - 3 SCOTCHLOCK (FROM FAN KITS)
 - 4 RING TERMINAL (FROM FAN KITS)
 - 5 FUSE HOLDER & FUSE (FROM FAN KITS)
 - 6 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 7 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 8 COILED BLUE WIRE (FROM THERMAL SWITCHKIT)
- PURCHASE: 1 FAN KIT, 1 THERMAL SWITCH KIT P/NO: 0401**

WARNING: ENSURE IGNITION SOURCE IS NOT CONNECTED TO THE ENGINE MANAGEMENT SYSTEM



5 TWIN FAN, THERMATIC SINGLE FAN CONDENSER

- 1 BLUE CONNECTOR (FROM FAN KITS)
 - 2 SELF TAPPER (FROM FAN & THERMAL SWITCHKIT)
 - 3 SCOTCHLOCK (FROM FAN KITS)
 - 4 RING TERMINAL (FROM FAN KITS)
 - 5 FUSE HOLDER & FUSE (FROM FAN KITS)
 - 6 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 7 FEMALE SPADE BLUE (FROM THERMAL SWITCHKIT)
 - 8 COILED BLUE WIRE (FROM THERMAL SWITCHKIT)
- PURCHASE: 2 FAN KITS, 1 THERMAL SWITCH & RELAY KIT P/NO: 0404**



6 TWIN FANS, CONDENSER ONLY

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

Note: Colour of motor leads depends on fan location (upstream/downstream)

If in doubt, refer to the rotation and polarity chart.

The two terminals on the thermal switch are equivalent. It does not matter which goes to the ignition and which goes to the relay. When the switch closes it connects the two terminals.