

Kit Contents

- Fan control module (EFC) contains a sealed temperature circuit which is adjustable and monitors coolant temperature. Factory set at approx. 70°C
- Wire loom with incorporated 30 Amp relay
- Dust cap, cables ties and hose clamps.
- Temperature adjustment tool

1. Installation

Before making any alterations to your system ensure that the Revotec controller is the correct size. Choose a position for the controller in a straight section of one of the main radiator hoses, ensuring that:

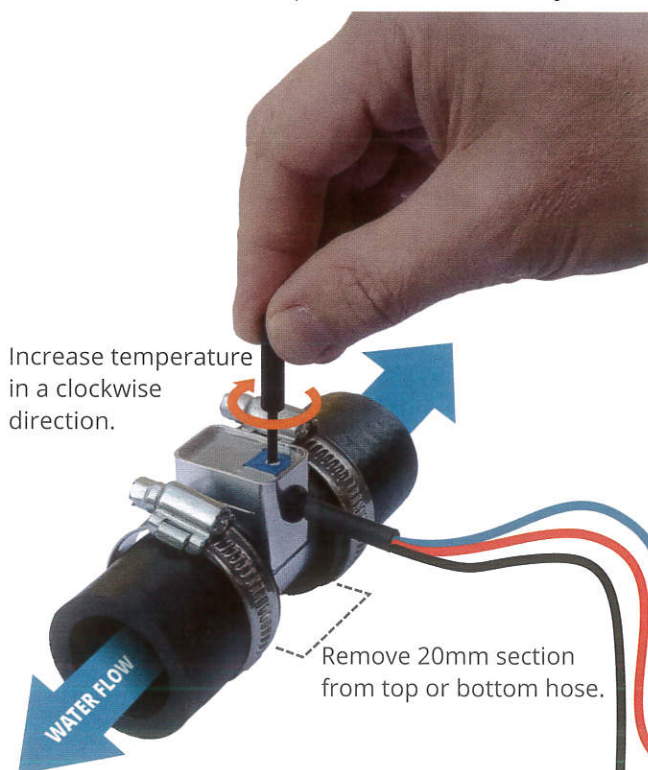
A) There is sufficient straight hose to fit the full length of the EFC and the adjustment is accessible.

B) The EFC will be in constant contact with the coolant. Partially drain the cooling system to allow you to remove the hose. It may be necessary to remove a 20mm section from the hose at the position that you want the controller.

Clamp the hose to the controller using the hose clips provided.

Top up the coolant and check for leaks.

The temperature at which the EFC switches on the fan is adjustable between 70°-120°C and will automatically switch off when the coolant temperature has reduced by 3°C



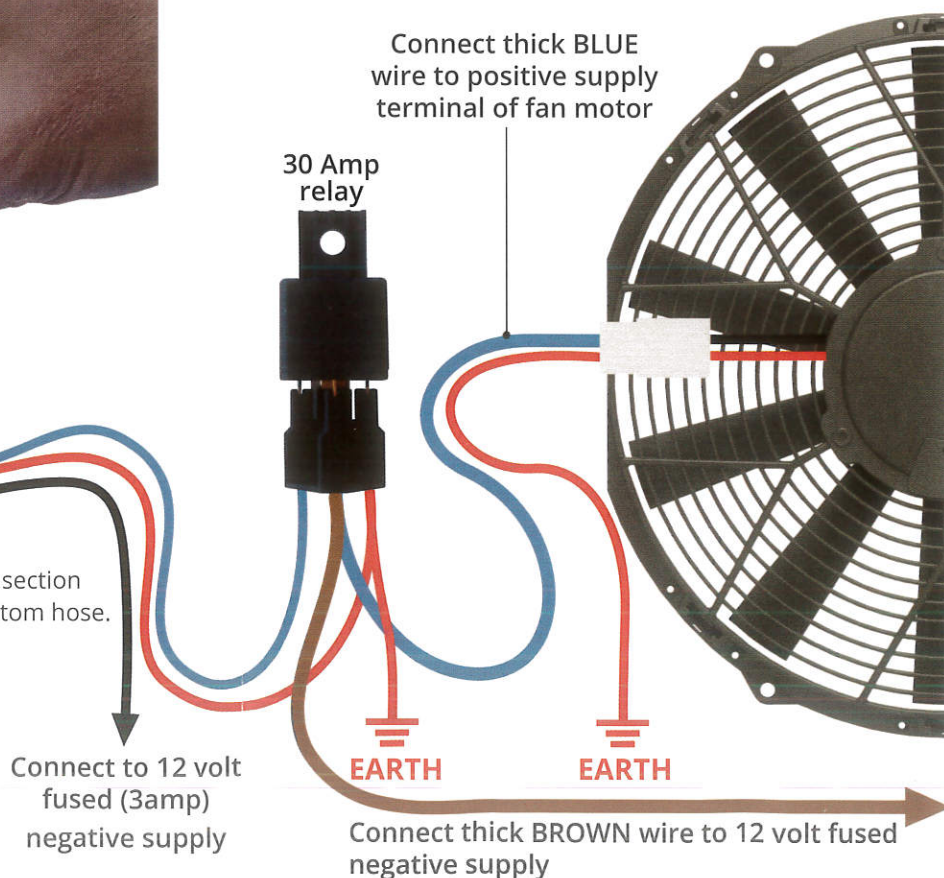
Note: The direction of water flow through the controller is not important.

2. Electrical Connections

Before starting, disconnect the vehicle battery. Extreme care must be taken whilst making any connections including using correct crimping tools and ensuring good earth connections.

1. Mount the relay in a suitable position protected from the elements and ensuring there will be no strain on any wiring.
2. Connect the RED wire of the EFC and of the fan to a good earth point i.e vehicle body.
3. Connect the thin BLACK wire to a 12 volt fused (3 amp) negative supply ideally from the ignition switch.
4. Connect the thick Brown to permanent 12 volt fused negative supply i.e battery negative.
5. Connect the thick BLUE wire to the BLACK wire of the fan
6. Secure all wires and loom with the ties provided and reconnect vehicle battery.

This unit is only for use on a positive earth vehicle. It cannot be installed on a negative earth vehicle. Attempts to reverse wire can lead to permanent damage of the EFC.



3. Setup

The temperature at which the fan is switched on by the EFC is set by turning the small control inside the body of the EFC. The adjustment range is only $\frac{3}{4}$ of a turn (270°) total rotation. Do not force past the stop or permanent damage will be done and all warranty is void.

Only adjust using the adjustment tool supplied.

The temperature range is 70°C-120°C (150°F-250°F).

1. Set the unit to its minimum (fully anti clockwise).

2. Start the engine and allow the engine to get warm, The fan should operate when the coolant temperature reaches approximately 70°C (150°F).

3. Continue to increase the setting until the fan remains off when the engine is at normal running temperature. The fan will then operate if the engine temperature exceeds normal.

4. When adjustments are finished fit the dust cap.

Important Information

A) The Revotec EFC cannot compensate for cooling related problems that may lead to overheating. If the temperature of the coolant exceeds 125°C damage to the EFC may occur.

B) Any modifications to the loom or use of different relay will invalidate warranty.

C) The EFC body is aluminium it is imperative that a suitable corrosion inhibitor is used in the cooling system.

D) The EFC utilizes a ground or earth switching circuit.

E) If connected to a permanent live the EFC will consume approximately 1.0 milliamp of power equivalent to approximately 1/10, the power feeding a clock.

F) In some cases mounting the EFC in close proximity to HT leads can affect correct operation.
(see trouble shooting guide for solution)

Trouble Shooting Guide

Symptom	Possible Cause	Solution
EFC does not operate at all	Incorrect polarity compatibility	Check EFC & vehicle specification
	Lack of 12v supply	Check 12v supply
	Unreliable earth connection	Check earth connection
	No hot water in system or air pocket	Check EFC is in contact with hot water e.g above 70°C minimum EFC setting
Fan on constantly	Incorrect wiring	Check connections
	Interference from ignition	Move EFC to bottom hose
		Move EFC wires away from HT Leads
Fan pulsing/buzzing	Poor connection in 12 volt supply	Check all connectors in the 12 volt supply, especially any crimps
	Supply voltage drops when fan energises (fan takes a high current when it switches on)	Check alternator or dynamo
		Check battery voltage
Interference from ignition	EFC is close to the HT leads or interference is due to high power electronic ignition systems	See above