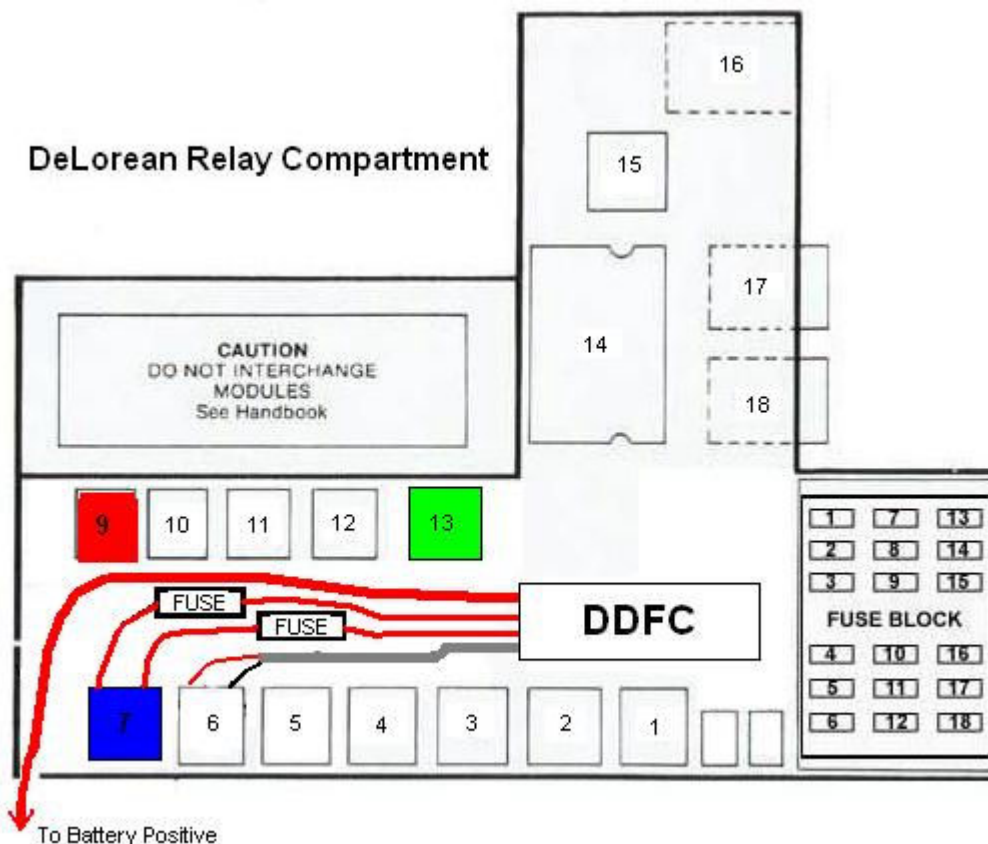


# DDFC (DeLorean Dual Fan Controller)

This module is intended to fix the fan startup problems common with DeLoreans. These problems may include stalling at idle when the fans kick on and other electrical problems caused by brown out type conditions in the electrical system.

## Features of the DDFC module:

- Small size 3.3in x 2.2in x 1.4in so it can fit inside the DeLorean Relay Compartment
- Custom designed printed circuit board
- This module supplies the fans with power directly from the battery (via the 10 AWG) so as to not cause a voltage drop (brown out) at your fuse box
- Only one wire to connect up, 10 AWG to battery, the rest is just plug in
- The DDFC turns on one fan at a time with a 3 second delay so the high start up currents of each fan don't both 'hit' your electrical system at the same time
- Two green LED's on the wire side of our module indicate when each fan output is commanded on for troubleshooting ease
- The DeLorean's Fan Fail light will come on to indicating that that the Fans are on
- Uses two standard 30A Bosch type automotive relays for easy parts replacement
- Fan outputs include anti-spike diode to protect relays and reduce electrical noise
- Each fan output wire is individually fused with a Mini-ATC type 15A fuse
- 12-month warranty from date of purchase against manufacturer defects



## Installation:

The 10 AWG main battery wire should be fused for protection with a 30-40A Fuse, Not included, located as close as possible to the positive terminal of your battery. Remove relay#7 and plug in our connector with the two Mini-ATC fuses attached. Remove relay#6 and attach our connector with the red and black wire. Run the 10 AWG red wire thru the relay box as shown and attach it, with a fuse, to your positive battery terminal.

**Warning:**

Never operate a vehicle without a working cooling system. Never use the vehicles A/C system without functioning Fans.

**Testing:**

After installation or any servicing of the electrical cooling system it is important to test the DDFC and fans by turning on the A/C system with the ignition on (engine doesn't have to be running), the First fan should turn on immediately then second fan will come on in about 2-3 seconds. You can also trigger the fans to turn on with a high coolant temperature signal by locating your coolant temperature switch (AKA the DeLorean's Otterstat) on the lower left hand coolant pipe, disconnect it and with the vehicle's ignition on (engine doesn't have to be running) you can short the two pins on the plug side together.

**Disclaimers:**

- The basic fan functions of the vehicle must be working, the DDFC may not fix a system with a dead fan or faulty wiring.
- The DDFC is not waterproof and not intended to be mounted in any location that will expose it to weathering.
- When installing or servicing the DDFC, or any electrical device, it is important to disconnect the vehicles battery connections, Typically negative side first in case the wrench happens to touch chassis ground.

**Troubleshooting:**

- **Nothing is coming on** (No Fans, Fan Fail Light or LEDs on the DDFC) when A/C is on or the Otterstat is commanding fans - Check for 12v on both of the DDFC's red wires, large 10 AWG and smaller 22 AWG, and check for good ground connection on the black 22 AWG wire.
- **Fans stay on even after Fan Fail light has turned off** – Possibly the Fan fail light has burnt out or one of the two relays in the DDFC has failed and is stuck on.
- **Fan Fail light is coming on but one or both of the fans are not coming on** - Check for blown in-line 15A mini-ATC fuse or faulty relay inside DDFC. **Never operate a vehicle without a working cooling system. Never use the vehicles A/C system without functioning Fans.**

**For warranty service, questions, or comments regarding this or any of our products, please contact Baker Electronix at [bakerelectronix@verizon.net](mailto:bakerelectronix@verizon.net)**

**Please do not call us with technical questions as we are better equipped to answer your questions by email and this also allows us to send you copies of documentation when applicable.**

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