

INSTALLATION INSTRUCTIONS

109140 Dual Fan Relay Controller - Series/Parallel

Standard Configuration - Negative Triggered

This fan relay controller is designed to control the operation of a pair of coolant fans. With a pair of negative-going trigger signals, the coolant fans will run at half-speed (SERIES) or full speed (PARALLEL). The Fan Controller uses 40 amp miniature relays potted in a compact, epoxy-filled enclosure. Power feeder wiring is 10 gage, fuselink-protected for reliability. The Fan Controller is completely modular and incorporates sealed connectors.

The main power feed has a 10mm ring terminal which can be attached directly to the vehicle's battery or battery positive junction. The ground ring can accommodate an 8mm bolt which must be attached to a secure ground location, i.e. engine block or chassis.

The fan connections are Metripack® 630-series sealed connectors, with female terminals, and are designed to plug directly into standard coolant fan motors. Orange and Black wires attach to Fan 1, Yellow and Black wires to Fan 2. No specific order is needed for the fans, so either one can be Fan 1. Mating connector pigtails are available when adapting this kit to other manufacturers' fans; contact Caspers for more information.

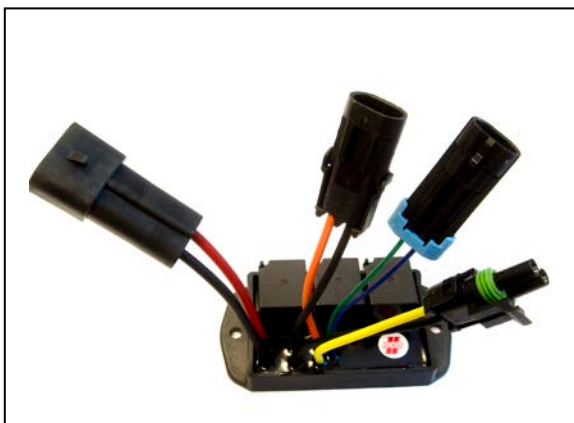
Trigger connections require low current (less than 0.5 amps) 12 volt negative-going signal to energize the relays (standard configuration). There are two wires for this function, Green and Blue.

- The GREEN wire triggers SERIES operation; applying -12 volts to the Green wire will cause the fans to run in series, making them run at approximately half-speed (each fan gets half-voltage).
- The BLUE wire triggers PARALLEL operation; applying -12 volts to the Blue wire forces both fans to run at full power, providing a full 12 volts to each fan.

Note: If a ground is applied to BOTH wires, the fans will run in PARALLEL at full power. If you apply positive voltage individually to each wire, the fans will run at the desired power level.

The Fan Controller can be specially-made to work with POSITIVE-GOING trigger signals or a combination of both positive and negative triggers for series/parallel operation; contact Caspers with your requirements.

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Fan Controller Module



Extension Wiring