



Perma Industries Incorporated
 400 South Rockefeller Avenue • Ontario, CA 91761-8144 USA
 Tel 909.390.1550 • Fax 909.390.1551
 www.perma-cool.com

Installation Instructions

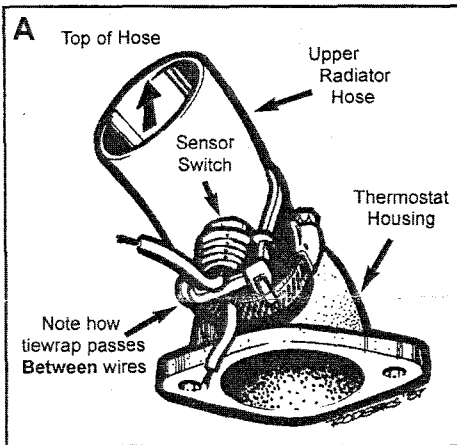
This guide covers the following Item Numbers:
19001/19007

Congratulations, you have made a wise decision. Thank you for purchasing our product.

Electric Fan Wiring System (with electronic thermal control sensor)

IMPORTANT! READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION.

19001 System: Locate a convenient place on the bottom side of the upper radiator hose to attach the sensor switch, near the water thermostat housing is best. Next, press the the sensor switch into the spring mount. Make sure that the wire of the spring does not pinch the electrical wire. Make sure that the sensor switch is as far as it will go inside of the spring. Pass the nylon tie strap down through one eyelet, around the radiator hose, and up through the other eyelet. Position sensor switch, then pull tight (see illustration A).

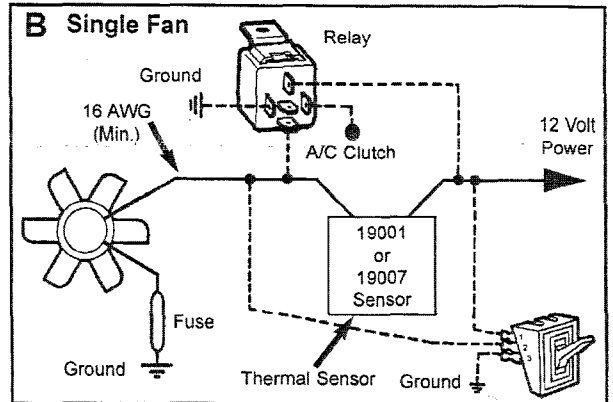


19007 System: To install the sensor switch. Locate a place on the engine block, cylinder head or intake manifold that has the correct thread size. The threaded thermal sensor has 1/2"-14 NPT male threads. Pipe threaded ports are usually where hoses connect to the heater circuit or sending units in the heads. Also, the radiator may have a 1/2" pipe plug in it. If no location can be found, it will be necessary to "T" into an existing hose to have a place to screw in the thermal sensor.

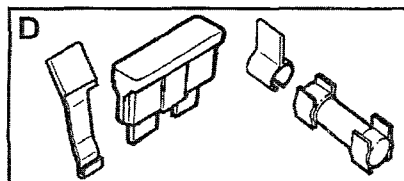
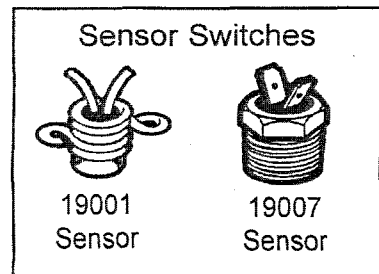
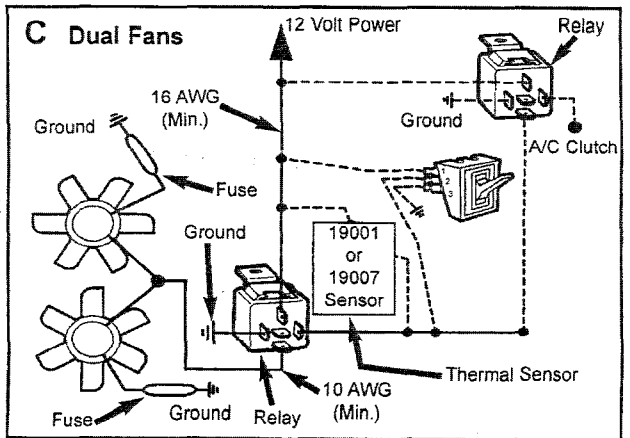
Wire according to the schematics. SINGLE (see illustration B). DUAL (see illustration C). The switch will activate at approximately 170 ° F (77° C). The electric fan motors may be reversible. To reverse the rotation of the fan,

change the polarity of the fan motor wires and/or reverse fan blades.

WARNING!! This sensor switch and wire are designed for use with a SINGLE electric fan only. DUAL electric fans **REQUIRE** a larger gauge wire or must be wired through a relay switch. Burnout or fire could result if wired improperly. For DUAL fan applications use part number 18902 Heavy Duty Wiring System which includes a 30 Amp relay and wire per illustration C.



This system includes power taps for a convenient connection to the electrical power (see illustration D). Before installing, as shown in illustration D, remove any fuse from the accessories side of the fuse block. Switch the ignition key to on, **BUT DO NOT START THE ENGINE!** Using a jumper wire, ground one end and lightly brush across each fuse clip. The clip that throws the spark, is the line (power) side of the fuse clip. Turn off the ignition key. Reinstall the existing fuse in conjunction with the correct type of power tap, on the line side of the fuse. You have now installed a power tap that will not overload the circuit on which it is installed.



For additional accessories or replacement parts
 visit www.perma-cool.com