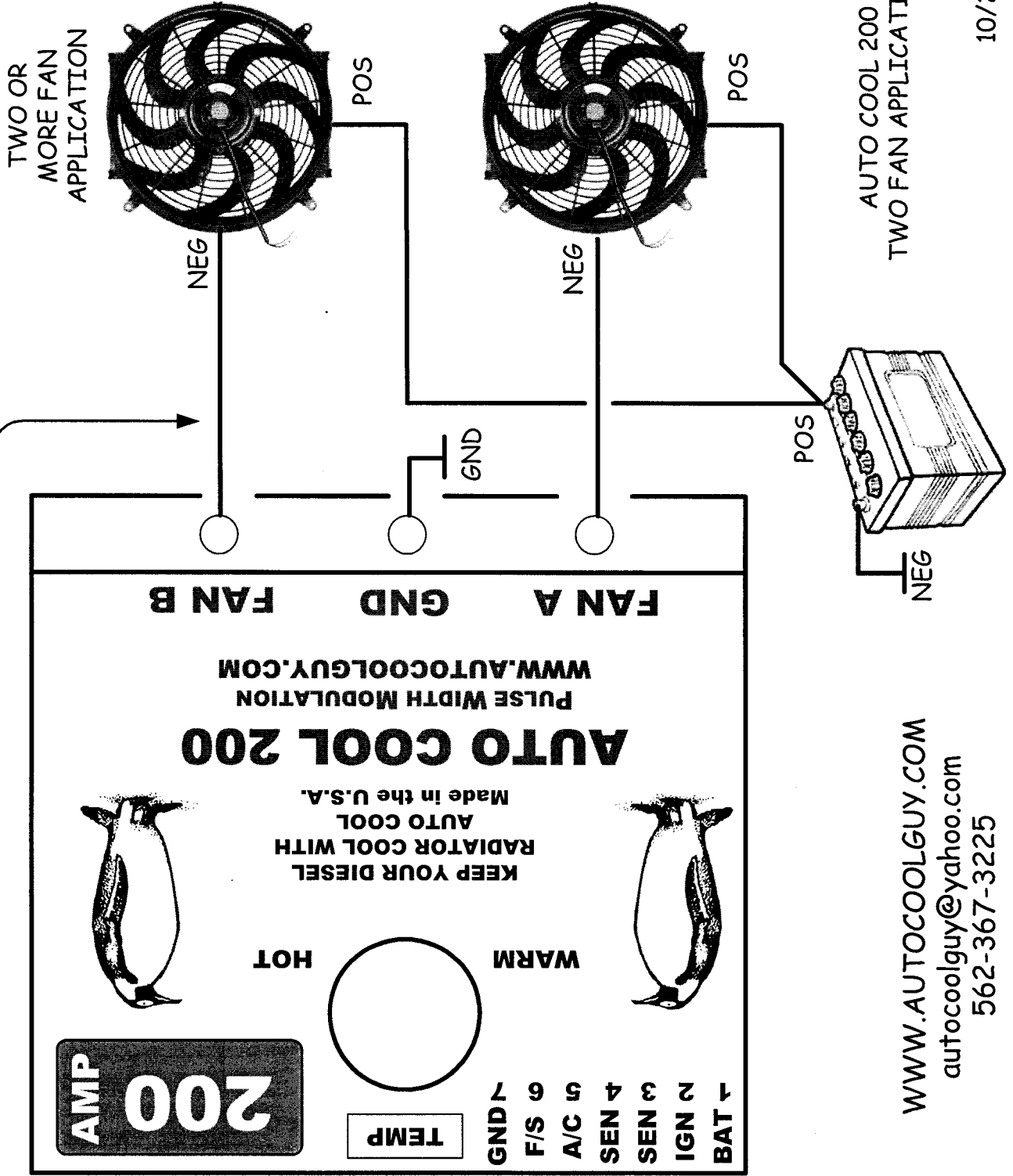


USE AT LEAST # 6 OR LARGER WIRE

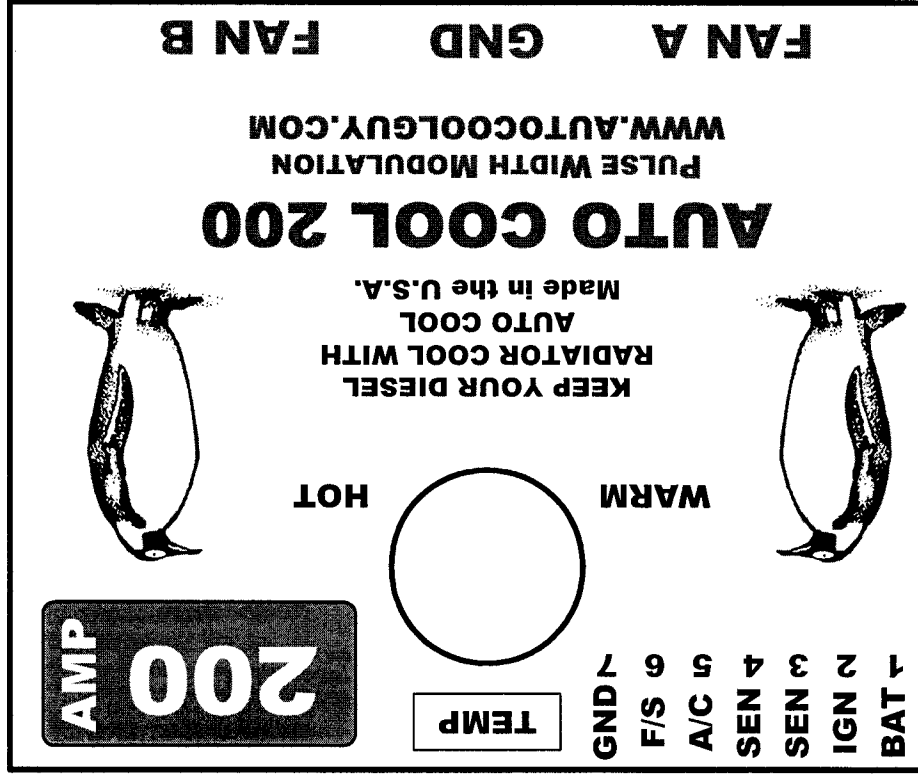


TWO OR MORE FAN APPLICATION

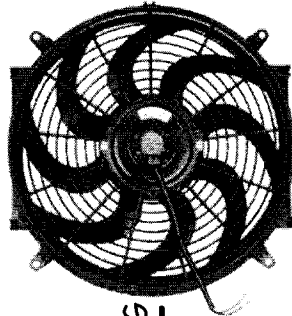
AUTO COOL 200 TWO FAN APPLICATION

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562-367-3225

USE AT LEAST # 6 OR LARGER WIRE



SINGLE FAN APPLICATION

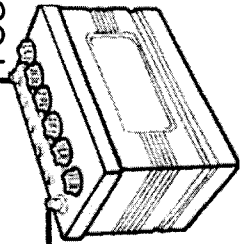


NEG

POS

POS

NEG

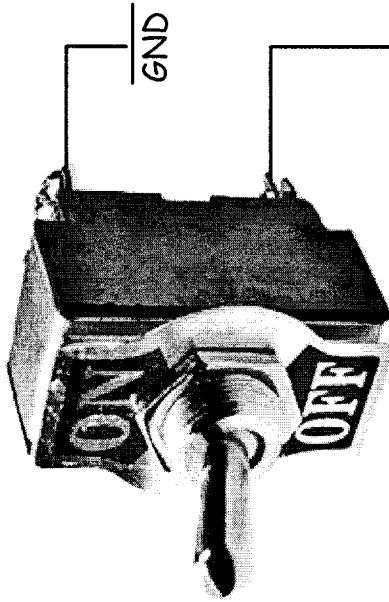


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AUTO COOL 200
ONE FAN APPLICATION

10/2016

FAIL SAFE
SWITCH ON
DASH BOARD



GND

20 AWG

+12 WHEN A/C SWITCHED ON

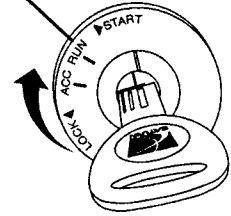
GND

20 AWG

20 AWG

SENSOR

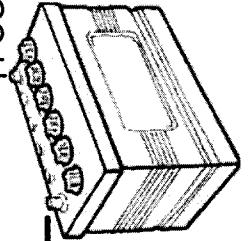
SEE PAGE 6



IGNITION
SWITCH

1 AMP FUSE

POS



NEG

KEEP YOUR DIESEL RADIATOR COOL WITH AUTO COOL
Made in the U.S.A.

AUTO COOL 200
PULSE WIDTH MODULATION
WWW.AUTOCOOLGUY.COM

FAN A GND FAN B

HOT

TEMP

WARM

200
AMP

7 GND

6 F/S

5 A/C

4 SEN

3 SEN

2 IGN

1 BAT

INSTALL A 1 AMP FUSE CLOSE TO THE BATTERY + IN CASE THIS WIRE IS SHORTED TO GROUND.

DETAILS ON HOW TO INSTALL YOUR AUTO COOL 200 CONTROLLER

HOW TO WIRE UP THE SEVEN (7) PIN BLACK TERMINAL:

PIN 1. WIRE THIS PIN TO THE BATTERY PLUS. YOU SHOULD PUT A 1 AMP FUSE IN LINE FOR PROTECTION. USE AT LEAST 20 AWG WIRE.

PIN 2. WIRE THIS PIN TO THE IGNITION SYSTEM SO THAT WHEN YOU START THE ENGINE, THE VOLTAGE WILL GO TO 12 VOLTS - ZERO VOLTS WITH IGNITION OFF.

PIN 3 & PIN 4. INSTALL THE TWO WIRES FROM THE SENSOR TO THESE TERMINALS. THERE IS NO POLARITY TO WORRY ABOUT AND YOU CAN AD OR SHORTEN THE LEADS. IF YOU AD WIRE, MAKE VERY SURE YOU HAVE A SOLID SPLICE. I WOULD EVEN SOLDER THESE TO BE SURE. IF A SPICE OPENS, THE CONTROLLER WILL STOP WORKING.

PIN 5. CONNECT THIS PIN TO THE AIR CONDITIONING SYSTEM WERE +12 VOLTS WILL PUT THE FAN OR FANS AT A PRESET RPM. YOU CAN ADJUST THE FAN RPM WITH AN INTERNAL POT ON THE SIDE OF THE CONTROLLER. ALSO NOTE, THE TEMPERATURE CONTROL MODE WILL OVER-RIDE THE A/C MODE.

PIN 6. WHEN SWITCHED TO GROUND, THE FAN OR FANS WILL GO TO HIGH RPM. YOU CAN SWITCH FAIL SAFE ON AND OFF AT WILL ANY TIME. A SMALL SWITCH WILL WORK OK.

PIN 7. CONNECT TO CHASSIS GROUND WITH A SHORT WIRE.

SENSOR DETAILS:

INSTALL THE SENSOR ON THE **OUTFLOW PORT** OF THE RADIATOR ONLY. YOU CAN USE THE COPPER INLINE SENSOR OR THE BRASS PLUG SENSORS. SEE SENSOR RESISTANCE CHART FOR ANY SENSOR TROUBLE SHOOTING ON OUR WEB PAGE.

HOW TO WIRE UP THE FAN OR FANS:

CONNECT THE PLUS (+) OF THE FANS TO THE BATTERY PLUS. AUTO COOL 200 IS FUSED AT 250 AMPS. USE AT LEAST # 6 AWG WIRE FOR THIS LINE.. WELDING CABLE WORKS GREAT AND CAN BE PURCHASED AT MOST WELDING SHOPS OR ELECTRONIC OUTLETS.

CONNECT THE (-) RETURN SIDE OF THE FAN OR FANS TO THE **FAN A** AND **FAN B** TERMINALS. **FAN A** AND **FAN B** TERMINALS ARE INTERNALLY CONNECTED TOGETHER.

CONNECT THE SINGLE GND BRASS TERMINAL TO CHASSIS GROUND WITH A SHORT WIRE.

DO NOT CONNECT FAN A OR FAN B BRASS BOLTS TO THE BATTERY + OR YOU WILL BLOW THE INTERNAL FUSES!!!!!!

TIME TO START THE ENGINE:

WHEN YOU START THE ENGINE, THE FAN OR FANS DO NOT START WHEN THE ENGINE IS COLD. WHEN THE RADIATOR TEMPERATURE STARTS TO WARM UP, THE FAN OR FANS WILL START TO SPIN SLOWLY AND GAIN RPM AS THE RADIATOR REACHES HIGHER TEMPERATURE.

THE FAN OR FANS WILL REACH THE RPM THAT "LOCKS UP" THE RPM TO HOLD THE TEMPERATURE YOU HAVE DIALED ON THE BLACK KNOB ON THE AUTO COOL 200 CONTROLLER.

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FIRST TEST OF THE AUTO COOL 200 RADIATOR FAN CONTROLLER

After you have wired up the Auto Cool 200 controller you will be ready to test the system. Do these checks on the seven (7) pin black terminal first.

1. Measure + 12 to + 14 volts DC from the **BATT** PIN 1 to **GND** PIN 7 or ground.
2. Verify that PIN 7 of the black terminal is grounded. Might use a ohm meter for this test.
3. Verify that the **sensor wires** are connected to PIN 3 and PIN 4 of the black terminal.
4. Verify the the air conditioning +12 volt power is connected to PIN 5 of the black terminal – if used.
5. Verify that the FAIL SAFE SWITCH is connected to pins six (6) and ground.
6. Turn on the IGNITION but DO NOT start the engine for the next step.
7. Measure +12 to +14 volts from the **IGN** PIN 2 to PIN 7 or GROUND.
8. Turn off the IGNITION SWITCH and go to the next step if the above is tested correct.

Do these check on the BRASS FAN A & B AND GROUND TERMINALS on the controller.

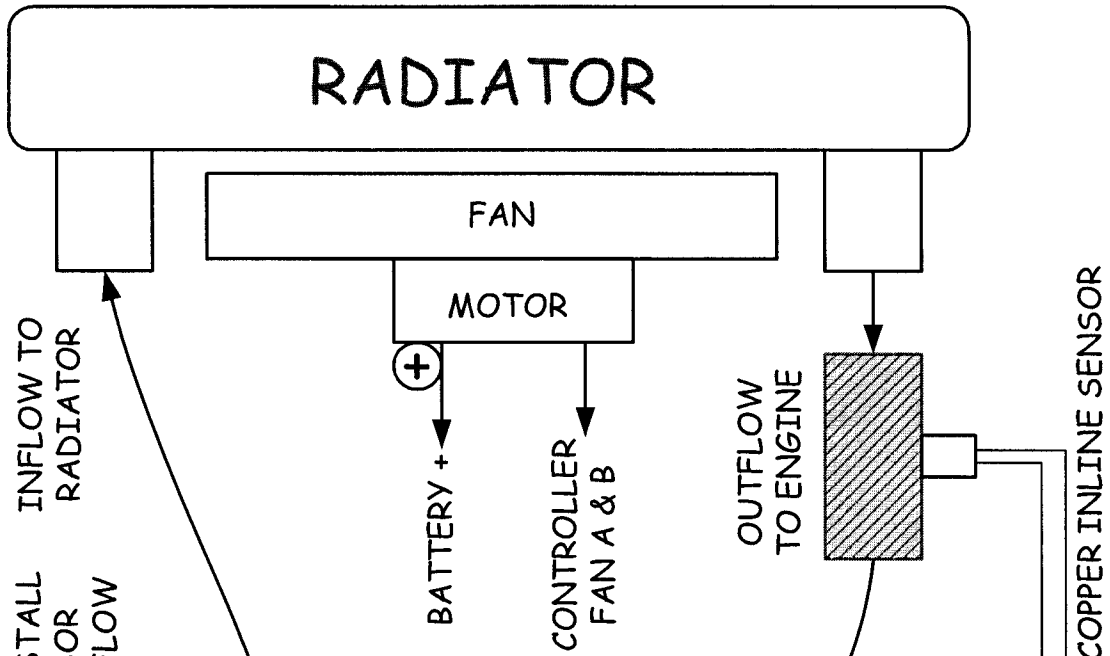
1. Verify the FAN'S POSITIVE WIRES have been wired to the BATTERY POSITIVE.
2. Verify the FAN'S RTN or GROUND WIRES are tied to FAN A and or FAN B BRASS TERMINALS.
3. Low speed wires from the fan or fans will be tied off and NOT USED.
4. FAN A and FAN B terminals are connected together on the controller internally.

CONTINUE IF YOU HAVE CHECKED THE ABOVE WITH THE PROPER RESULTS:

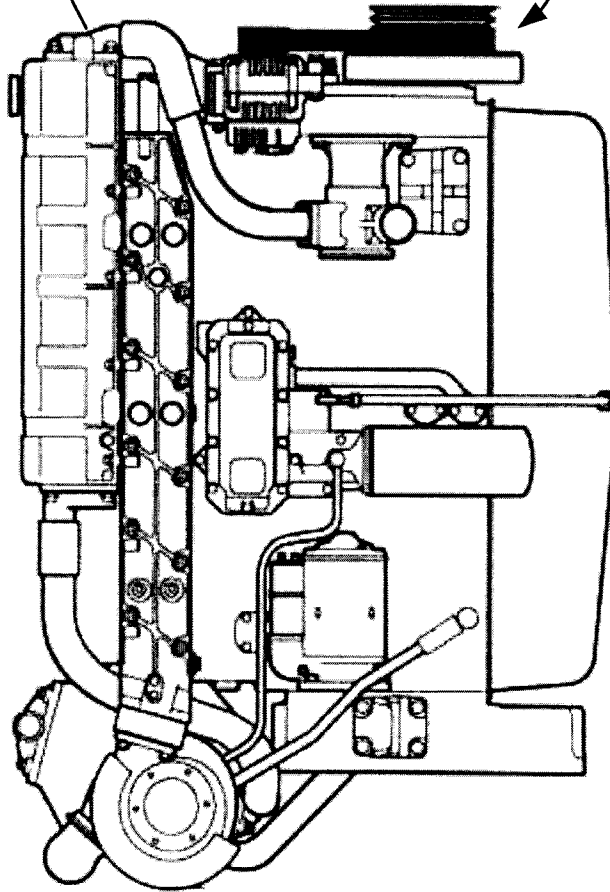
1. Switch the IGNITION on, start the engine and let it idle and parked for this test.
2. Turn the black control knob on the Auto Cool 200 to the FULL CCW WARM position.
3. As the engine thermostat opens and the sensor warms up, the fans or fans will start spinning slowly.
4. As the radiator and engine warms up, turn the black control knob CW one step at a time.
5. You can set the black control knob to the center position.
6. At this point if the fan or fans fail to spin with a hot motor, short PINS 3 & 4 to force fans to spin.
7. Fan or fans should spin to high RPM with a short across the sensor terminals.
8. If the sensor is wide open (ohm meter) the fan or fans will not work in the temperature mode.
9. The SENSOR should measure 40,000 to 60,000 ohms cold and not shorted to the brass.
10. Turn on the fail safe by grounding PIN 6 - Fans or fans should go to high RPM.
11. Start engine, turn on the car's air conditioning system and go to the next step.
12. Remove the half inch round plug on the side of the controller to gain access to the Air Conditioning speed pot.
13. Adjust the small pot to preset the A/C fan speed as required with small flat bladed screw driver.
14. Keep in mind that the temperature mode will over ride the A/C fan speed.

USE A LASER TEMPERATURE GAUGE TO MEASURE RADIATOR AND ENGINE TEMPERATURE:

1. You can now measure the radiator and engine temperature with a laser temperature gauge.
2. With your truck or RV running, measure the bottom of the radiator with a laser temp gauge.
3. Set the black knob on the Controller so that the radiator temperature is 10 to 20 degrees below the engine.
4. When driving your RV or truck, the fan controller will constantly control the RPM of the fan to regulate the temperature of your radiator. Even the outside air temperature will effect the RPM of the fan or fans.



DO NOT INSTALL THE SENSOR ON THE INFLOW PORT!!



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