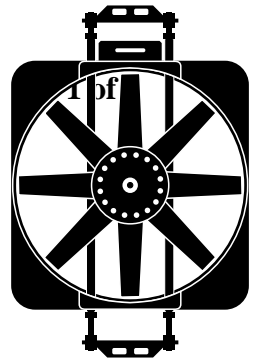


# Flex-a-lite®

## Black Magic 150

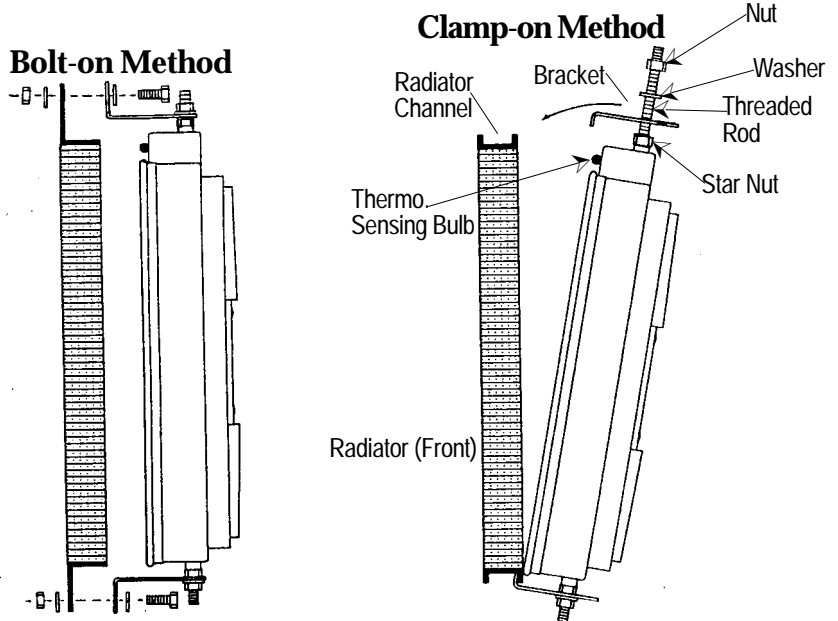


**Mounting Instructions**-150 may be installed either horizontally or vertically to the radiator

Assemble the brackets and threaded rods to the 150 fan according to the specific application. Mount the 150 with brackets using either the bolt-on or clamp-on method.

**Note:**

- Be sure to use star nuts to stabilize the threaded rods.
- Be sure the thermostatic sensing bulb touches the radiator surface for accurate temperature readings.
- Do not over tighten 150 to the radiator, damage may occur.



### MANDATORY CONNECTIONS

1. Disconnect the battery.
2. Connect the “+” terminal of the control box to a 12V positive (+) power source (i.e. fuse box), using the wire provided in the kit.

**Note:** Attach this wire to an ignition controlled source to stop the fan when the vehicle is shut off.

**Note:** Attach this wire to a non-ignition source to keep the fan running after the vehicle is shut off.

3. Connect the “B” terminal to a high amp 12V positive power source (i.e. battery, alternator) using the wire and in line circuit breaker provided in the kit.

**Note:** Circuit breaker is marked for proper installation.

4. Connect the “G” terminal to ground (i.e. chassis, negative side of battery) using the wire provided in the kit.
5. **If you have air conditioning:** with 3-way connector provided, pass the A/C clutch positive(+) wire (connected to the A/C pump) through the connector. Place the black wire provided into the closed end of the connector. Crimp metal plate. Snap plastic cover into place. Attach black wire to the "C" terminal of the control box.

**Air Conditioning Relay activates fan when A/C is turned on**

### ADJUSTING THE TEMPERATURE CONTROL

1. Attach the temperature control knob to the control box.
2. Turn the knob clockwise completely.
3. Idle the vehicle, observe the temperature of the vehicle. (Use the vehicles gauge)
4. When the temperature of the vehicle reaches above normal, turn the control knob counter-clockwise until the fan turns on. From here on the fan should activate at this temperature setting. Adjust as necessary according to your vehicle needs.

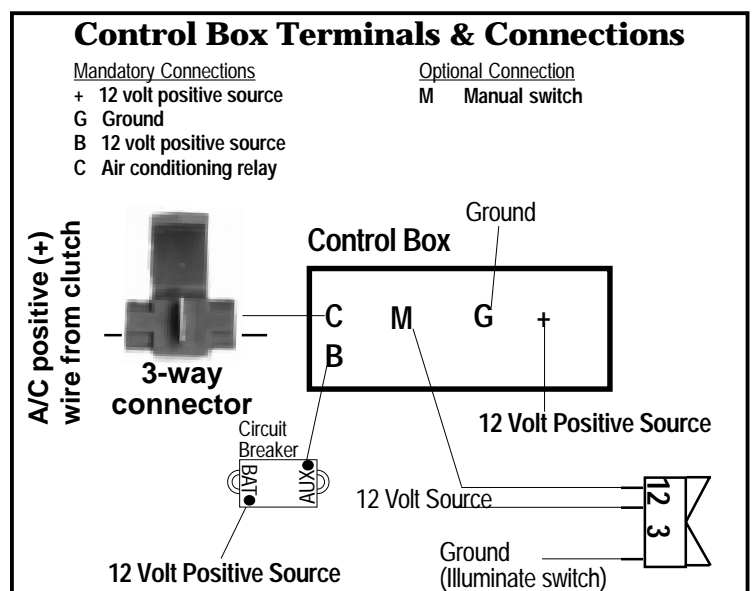
### OPTIONAL CONNECTIONS

**Manual Switch (not included) - Allows manual operation of the fan.**

(This step is based on Flex-a-lite's manual switch part #31148, other switches may cause this unit to function improperly.)

1. Connect the “M” terminal to terminal 1 on the switch.
2. Attach terminal 2 of the switch to a 12V positive (+) source.
3. Attach terminal 3 of the switch to ground, in order to illuminate the switch.

**Note (optional):** To stop the fan from activating thermostatically, omit the lead to the “+” terminal of the control box. “B”, “G”, & “M” must remain connected.



**\*WARNING:** If not using Flex-a-lite's illuminated switch (PN #31148) you must disconnect the switch ground.

