Part #75096 Kit Contents:
Toggle Switch, 2 Wires, Terminals & Wire Sleeve

**Design:**
- This optional switch harness kit is designed to enable simple installation of high performance electric fans.
- It is compatible with all vehicles. It can be used on 12 volt DC positive or negative ground vehicles with no modifications.
- The switch can be used with or without the temperature sensor using the diagram on the back of this sheet.
- The wiring harness is protected by many weatherproof components. However, care should be taken to position the devices where they will be dry and least exposed to extremes of temperature.

**Theory of Operation:**
- When the thermal switch reaches its operating temperature it brings the attached wire to the ground potential.
- When this happens the relay is “turned on” which in turn operates the electric fans.
- This manual switch serves as a bypass to the thermal switch and will operate the fans at any temperature.

**Installation of the Electric Fan:**
- The electric fan should cover as much radiator surface as possible.
- The fan should be mounted as high on the radiator core as possible.
- The spacing between the radiator and the electric fan should be approximately 3/8” to maintain airflow through the core. The best results are obtained by using Be Cool fan mounting brackets.
- Do not attach through the radiator core, use the radiator flanges where there is a metal lip.
- **Do not** bend or force fan for mounting purposes. This may cause damage to fan or radiator, voiding warranty.

**Installation of the Thermal Switch:**
- **Do not** attempt installation when the engine is hot.
- Disconnect the battery before installing wiring.
- Connect one wire from the switch to the temperature switch.
- Connect the second wire to the chassis ground.
- See back side for wiring diagram.

**Trouble-Shooting**

<table>
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<tr>
<th>Problem</th>
<th>Probable cause</th>
<th>Solution</th>
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</thead>
<tbody>
<tr>
<td>Engine overheats at idle or low speeds</td>
<td>Poor air flow at the radiator</td>
<td>Install a higher performance fan</td>
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<tr>
<td></td>
<td>Poor engine ventilation</td>
<td>Make sure engine compartment can vent hot air out.</td>
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<td></td>
<td>Insufficient radiator cooling</td>
<td>Clean core or replace with the appropriate size.</td>
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<td>Improper spacing of cooling fan</td>
<td>Use proper mounting brackets for the electric fan</td>
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<td>Engine idle adjusted too lean</td>
<td>Enrich idle circuit</td>
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<td>Engine timing too far advanced</td>
<td>Retard timing - Check timing for proper operation.</td>
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<td>Engine overheats continuously</td>
<td>Poor radiator/ engine combination</td>
<td>Install proper size radiator</td>
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<td>Defective or stuck thermal switch</td>
<td>Install new Be Cool temperature switch</td>
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<tr>
<td></td>
<td>Electric fan not working</td>
<td>Check fuse, replace as needed. Check wiring connections for broken or loose connections.</td>
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<td></td>
<td>Electric fan not working - Fuses blowing</td>
<td>Check motor, check for frayed wire or poor connections.</td>
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</table>
**Wiring:**

Before mechanical or electrical installation **DISCONNECT BATTERY**.

Mount the relay in a dry position on the vehicle. When this is completed, connect the wires as per the diagram.

- **Red Wire**: Connect to the butt connector on the fuse holder wire, slide short “shrink tubing” over the butt connector and heat the tubing with a heat gun using moderate heat.
- **Gray Wire**: Connect to the temperature switch using the enclosed connector.
- **Yellow Wire**: Connect to the positive battery terminal using the enclosed connector.
- **Orange Wire**: Connect to the ignition switch (+12 volt DC), power when switch is in run position.
- **Black Wire**: Connect the ring terminal to the chassis ground.
- **Blue Wire**: Connect a toggle switch to the gray temperature switch wire and connect the opposite side of the switch to negative or chassis ground using the black wire. This will close the circuit when the switch (SPST) is on. Switch rating must be at least 1/4 Amp (.250 ma).

**Options**: Connect a toggle switch to the gray temperature switch wire and connect the opposite side of the switch to negative or chassis ground using the black wire. This will close the circuit when the switch (SPST) is on. Switch rating must be at least 1/4 Amp (.250 ma).