



#31143 Illuminated 3-Way Switch Kit

The Flex-a-lite illuminated 3-way switch allows for in-vehicle control of your fan. By directly connected to the pins located on the controller, you can shut your fan off during water crossings, or keep the fan running at 100% power for towing up steep roads.

1

Register your product for warranty at : <http://automotive.flex-a-lite.com/warranty-registration/>
Enjoy your Flex-a-lite performance cooling product!

Create Switch Mount Location

- Determine mounting position for the switch. Look for a flat section of panel that is easily accessible from the driver's seat to activate.
- Check to make sure there are no wires or electronics directly behind this area. You will also need a minimum depth clearance of 1-3/4" to clear the switch body and the wires to attach.

- Mark off a rectangular hole 1-1/2" Tall x 7/8" Wide with masking tape where you plan to mount the switch. If you can remove this panel from the vehicle, cutting this hole will be easier. Drill the corners of the marked rectangle and remove the remaining material with a small cutting blade and a file. Make sure the hole is clear of any loose material or sharp filings.

2

Prep & Run Wires

1. Cut a small (~2") segment off of included black wire. Strip both ends of the wire and one end of the wire that was cut from. Twist one end of the small segment to the long wire, and crimp 2 of the included insulated flag terminals to the exposed end. (**Fig. 1**)

NOTE: If using Cooling Control Module Part #31149, apply previous step to the red wire.

2. Strip one end on both the orange and green wires. Crimp an insulated flag terminal to each.



Fig. 1

- Strip one end of the included red wire (**black wire for part #31149 controller**). Crimp an insulated flag terminal to the wire.
 - Find a suitable location in the firewall of the vehicle to pass these 4 wires through. If drilling, make sure to use a grommet on the firewall to prevent abrasive damage to the wire.
- NOTE: If using the 3-way switch with Flex-a-lite® Cooling Control Module Part #31149, Turn page over for wiring diagrams.**

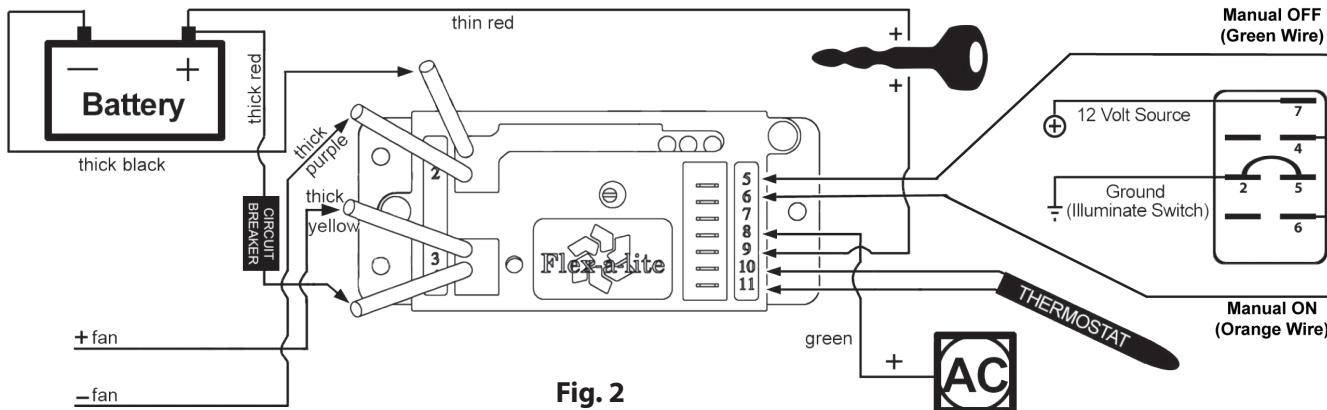
3

Install & Test

1. Connect wires to back of plug and wire to VSC as shown in diagram below. (**Fig. 2**)

NOTE: The loop from pin 2 to 5 represents the jumper lead produced in Fig. 1.

2. Secure and cut all wires to length before connecting to the VSC. Ring terminals are provided if you choose to connect 12V power and ground directly to the battery.



- After connecting all wires, confirm the function of the switch. When the blue light is active on the switch the fan should be in Manual ON mode. When the red light is active on the switch the fan should be in Manual OFF mode. Confirm Manual OFF by first allowing your vehicle warm up. Activate the switch when your fan begins normally cycling from the temp probe readings.

If you need further assistance, please contact tech services at 253-922-2700 M-F 8:00am-5:00pm PST.



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1 & 2

Create Switch Mount Location / Prep & Run Wires

1. Refer to Sections 1 & 2 on the reverse side for switch mount location and information on the wires. A jump wire should be made with the red wire and two flag terminals in order to work with the Cooling Control Module part #31149.

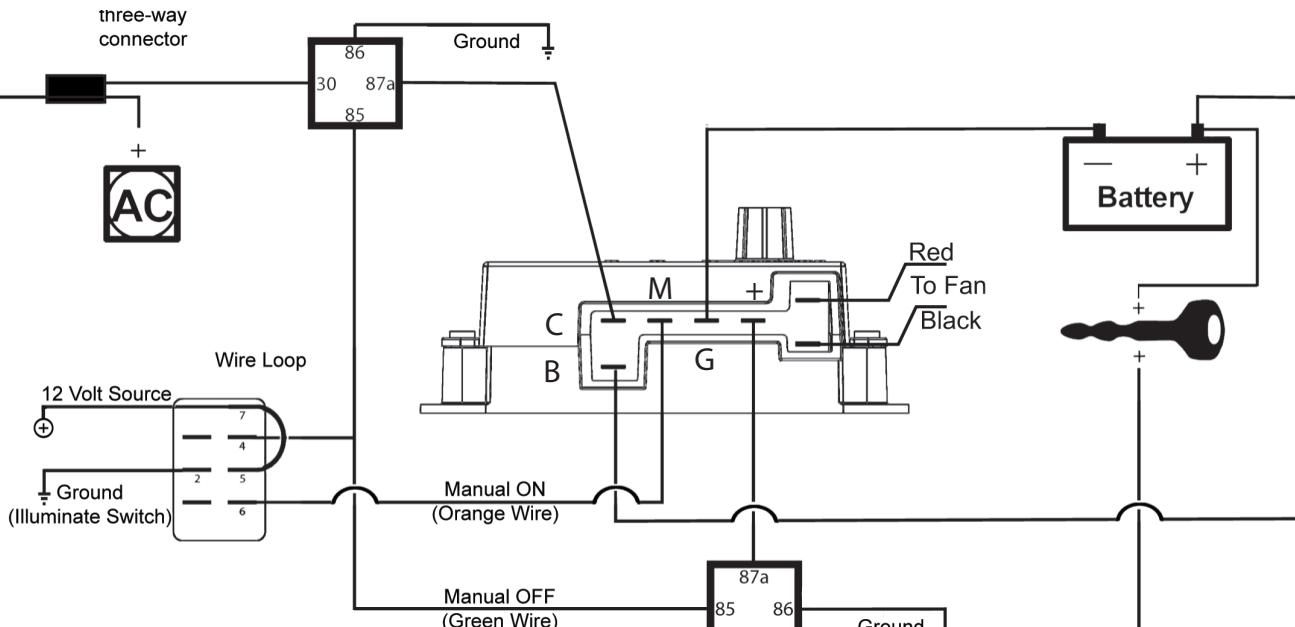
NOTE: If wiring the 3-way switch for use with a VSC, follow all directions on reverse side.

3

Install & Test

1. Connect wires to back of plug and wire to Cooling Control Module as shown below.

NOTE: The loop from pin 7 to 5 represents the jumper lead produced in Fig. 1 on the reverse side.



- 2 - Ground
- 4 - Manual OFF
- 6 - Manual ON
- 7 - 12 Volt Source

CLOSEUP SWITCH PINS

2. After connecting all wires, confirm the function of the switch. When the blue light is active on the switch the fan should be in Manual ON mode. When the red light is active on the switch the fan should be in Manual OFF mode. Confirm Manual OFF by first allowing your vehicle warm up. Activate the switch when your fan begins normally cycling from the temp probe readings.

The Flex-a-lite Limited Warranty

Flex-a-lite Consolidated, 7009-45th St. Ct. E. Fife, WA 98424, Telephone No. 253-922-2700, warrants to the original purchasing user, that all Flex-a-lite products to be free of defects in material and workmanship for a period of 365 days (1 year) from date of purchase. Flex-a-lite products failing within 365 days (1 year) from date of purchase may be returned to the factory through the point of purchase, transportation charges prepaid. If, on inspection, cause of failure is determined to be defective material or workmanship and not by misuse, accidental or improper installation, Flex-a-lite will replace the fan free of charge, transportation prepaid. Flex-a-lite will not be liable for incidental, progressive or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state to state. The Flex-a-lite warranty is in compliance with the Magnuson-Moss Warranty Act of 1975.

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