

## ATV Thumb Warmer

**For the following kits: 210010RR/MT, 210011, M92-21010, M92-21011**  
Hi/Low Model Installation Instructions  
For ATV throttles as on Arctic Cat, Suzuki, and Bombardier

- Please read all instructions before beginning installation

### Throttle Preparation/Warmer Attachment (Refer to Figure 1)

#### 210010RR/MT & 210011

1. Remove and clean any rubber/plastic covering on the throttle. Peel release paper from adhesive on piece of insulation and place on surface of thumb warmer heating element.
2. Peel release paper from adhesive on the metal side of the heater and press heater on **back** of throttle (side opposite where thumb rests).
3. Slide shrink tubing over end of throttle and position to cover warmer and insulation (Figure 1). (The shrink tubing has a 3 to 1 shrink ratio). Use a heat gun, (the preferred method), lighter, or match to heat the shrink tubing. If you use a lighter or match, remove the throttle to allow rotation for more even heating. Be careful not to overheat in one area as this can split or burn the shrink tubing. Reinstall throttle if necessary.

#### Hi/Low Switch Installation (Refer to Figure 2)

1. Choose a location for the switch that is convenient, has sufficient rear clearance for the electrical connections, and is within 18" of a voltage-controlled wire (a wire in the lighting circuit).

### Drill a hole and install switch (Refer to Figure 2)

#### 210010MT Kit installation

Drill a 1/2" (13mm) hole and install the switch from the back. Leave the strain relief nut on the switch. On the front install the Hi/Low indicator plate and secure the switch and plate using the metal nut. Adjust the strain relief nut to change how much the switch is protruding.

#### 210010RR Kit installation

Drill 13/16" hole in this location.

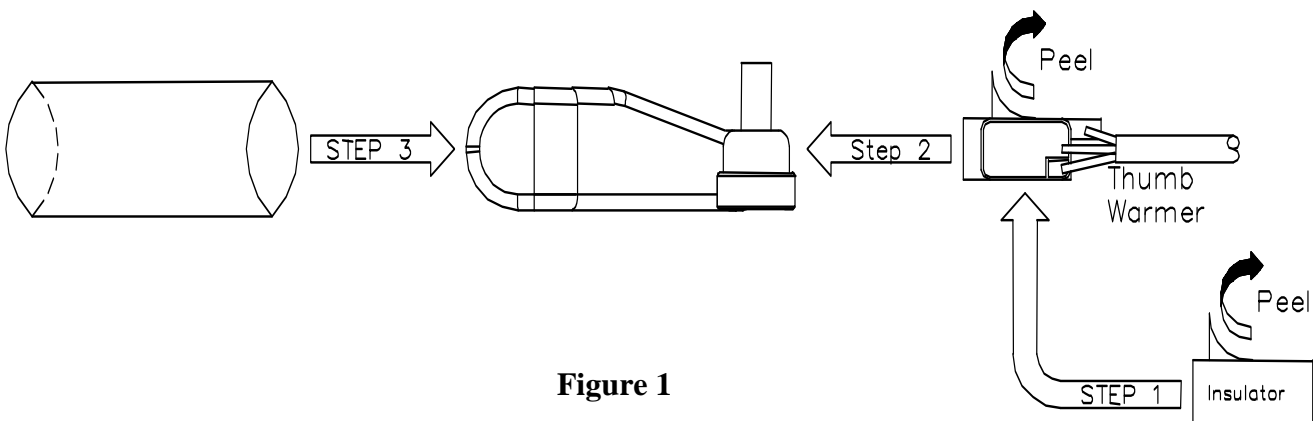
### Wire Routing and Connections (Refer to Figure 2)

1. Route wires/tubing along the handlebar to switch area and a Ground and secure with supplied tie wraps, electrical tape, or both.
2. Cut/strip for proper length.

**WARNING:** Lead wire slack in the area of the throttle must be neither excessive nor tight. Ensure no binding occurs when the throttle is open fully.

Soldering connections is the most durable method, but the following will provide years of service. Attach a 1/4" female slip-on connectors and #10 ring terminal to warmer leads as shown in **Figure 2**. (A crimping tool works best, but a Vise Grips or pliers will work).

Connect the supplied yellow or red wire to a **regulated** (lighting) circuit using Option A (ATV has a switch in a lighting circuit with a 1/4" tab) or **Option B:**



**Figure 1**

**Option A)** Strip end of yellow or red wire and crimp the supplied piggyback connector to the wire. Unplug the existing power wire from the constant power tab of the existing switch, slip on the piggyback connector, and reinstall the slip-on connector on the male terminal of the piggyback connector.

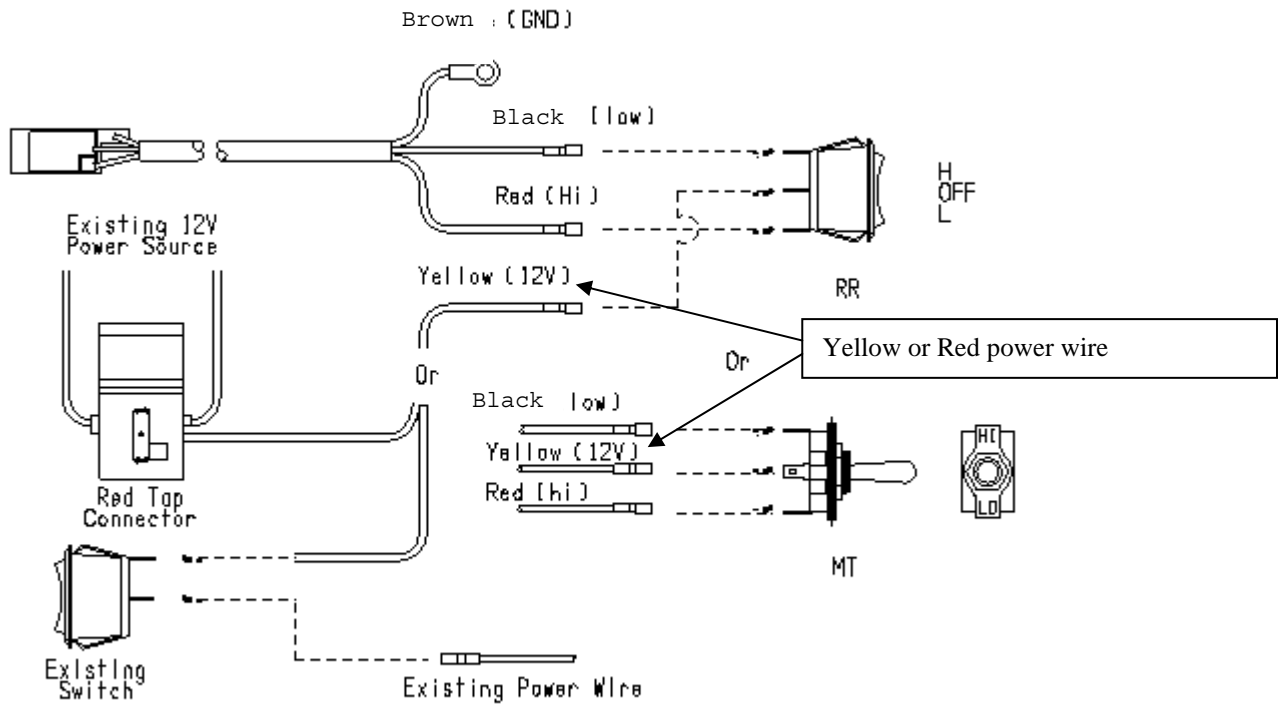
**Option B)** Locate a power wire (usually yellow) leading to a headlight, taillight, or dash light (Figure 2). Using the red tap connector, place this power wire into the continuous channel and insert the yellow wire (do not strip insulation) completely to stop. Make the connection by squeezing (w/pliers) the metal contact flush with the top of the connector. Close the hinged cover until latched.

### Kit 210010MT

Complete connections to switch and ground circuit as indicated in **Figure 2**.

### Kit 210010RR

Feed all electrical wires which will be connected to the switch up through the hole and complete the connections to the switch and ground as indicated in **Figure 2**. Then insert the switch while orientating the rocker so the letters are in the riders reading position.



**Figure 2**

### **Notes:**

1. If the warmer does not get hot, check electrical connections.
2. Heater resistance should be about 5 ohms. For added security, a 7-amp fuse could be integrated into the circuit.

**For technical information on this product, please call (763) 571-9193 Ext 106.**