



Metric External and Internal Kit Installation Instructions



For the following kits: 211025, 211026, 211035, 211036

Internal Heater Installation: (211025 and 211026)

1. Disconnect battery leads, **Negative** first.
2. Remove brake housing and clutch housing assemblies from the handlebars. **NOTE:** mark where each of the perch clamps end on the handlebars before removing.
3. Remove both throttle and brake side grips, and clean any residue from the handlebars.
4. Using the included template, mark the placement of the hole for the controller wires.
5. Another hole will need to be drilled towards the middle of the handlebars for the power wire to thread through.
6. Drill a 5/16" hole where you marked in step 4. Be sure to use a step drill or start with a 3/32" drill bit and step up to 5/16".
7. Use a round file or deburring tool to remove any sharp edges.
8. Install the rubber grommet into the hole drilled in step 5 using a small flat head screw driver.
9. Route the power wire from the center of the bars and through the grommet and out of the left side of the handlebars.
10. Insert the white and yellow wires heater 2 into the hole of the snake, and pull them through the bars so they exit the opposite side of the bars,
11. Push heater 2 into the handlebar (wire end first), make sure the end of the heater is flush with the handlebars.
12. Push the four controller wires and the black/red jacketed power through the grommet so they extend 4" out of the near side of the bars. **Note:** Position the controller in the mounting position (with spacer if needed), and remove any slack in the wires between the controller and the bar.
13. The wire connections are made on the side of the handlebars that the controller is being mounted on. Hold heater 1 near the end of the bars and make the connections as shown in **Figure 1**. **Note:** If a spacer is needed, mount the controller with the spacer before making the connections.

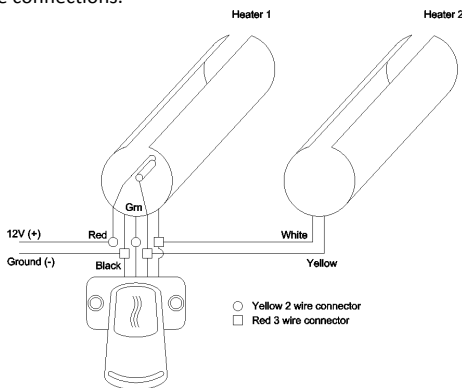


Figure 1: Internal Heaters Wire Connections

14. Make sure the button on the red and yellow connectors is flush with the clear base to ensure a good connection.
15. Fold the wires and connections inside of heater 1 and insert the heater (wire end first) into the handlebar.
16. **VERY IMPORTANT:** Connect the power wire directly to the battery temporarily to test the system. Press the controller button five times to confirm the four LED's light from yellow to red to off. Leave the controller on level 4 for 10 minutes, the bars should heat to 160 ±15°F
17. Install the clutch and throttle controls and grips, using the alignment marks from step 1.

External Heater Installation: (211035 and 211036)

1. Disconnect battery leads, **Negative** first.
2. Remove both grips, and clean any residue off of the bars.
3. If the bike is equipped with aluminum handlebars, apply the included tube of heat shrink to the clutch side bar.
4. Apply the heater marked "Clutch" on the left side of the handlebars. Position the heater with the wires facing the front of the vehicle.
5. If there are any ribs on the throttle tube, ensure that they are removed and the throttle tube is smooth.
6. Apply the heater marked "Throttle" onto the throttle tube. Position the heater with the wires facing the front of the vehicle. **Note:** Ensure adequate clearance is retained for rotation of the throttle wire.
7. Run the wires down the length of bars, towards the center of the handlebars.
8. Apply a thin coat of grip glue that is rated for at least 250°F to the inside of the grips, and install them to their respective sides.
9. Make the connections as shown in **Figure 2**. **Note:** If a spacer is needed, mount the controller with the spacer before making the connections.

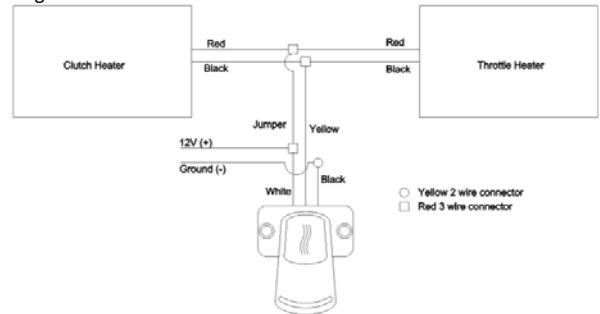


Figure 2: External Heaters Wire Connections

10. Make sure the button on the red and yellow connectors is flush with the clear base to ensure a good connection.
11. **VERY IMPORTANT:** Connect the power wire directly to the battery temporarily to test the system. Press the controller button five times to confirm the four LED's light from yellow to red to off. Leave the controller on level 4 for 5 minutes to confirm the heaters operate.

Mounting the Controller:

1. (**Option A: mounting the controller on the perch mount.**) Mount the controller to the clutch or brake perch using the stock bolts. (**Option B: mounting the controller using the back clamp.**) Mount the controller directly to the bar using the supplied back clamp and bolts.
2. For bikes with 7/8" or 1" bars, use the small spacer shown in **Figure 3** with the shorter bolt set. For bikes with 1 1/4" or 1 1/8" bars, use the large spacer shown in **Figure 3** with the longer bolt set.

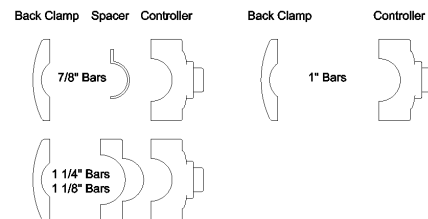


Figure 3: Controller mounting options with back clamp

Note: The Heat Demon kit draws 3 amps, make sure the circuit will not be overloaded.

1. Reconnect the battery leads. **CONNECT THE POSITIVE LEAD FIRST.**
2. Turn on the accessory switch, and check the controller lights up properly. Let the system sit for 10 min on level four, and make sure the grips get hot.