



## HEAT DEMON FOR GOLD WING INSTALLATION INSTRUCTIONS



This Heat Demon for Gold Wing Kit is designed to fit all models of Gold Wing motorcycles from the GL1100 to the GL1800 with Standard Grips. The heaters are installed under the clutch grip and over the throttle sleeve of the throttle grip and the 4 level Controller is mounted on the handlebar. Gold Wing motorcycles with aftermarket grips like Billet will need these replaced and Kuryakyn grips will need special operations where they are replacing standard grips. This kit will not work with Gold Wings that already have Kuryakyn grips installed. On those bikes a replacement throttle grip will need to be purchased, the rubber cover cut off, and new Kuryakyn grips installed.

**!!Warning!! A Service Manual is required to install this kit. The rider's safety depends upon the correct installation of this kit. If the procedure is not within your capabilities or you do not have the correct tools, have your dealer perform the installation. Improper installation of this kit could result in death or serious injury.**

**WARRANTY AND DAMAGE:** This product has a 1 (one) year Limited Warranty. The warranty does not cover misuse of this product or operation outside of the design specifications. Symtec, Inc. WILL NOT be responsible for damages made to products that are not installed properly. Symtec, Inc. products have recommended installation instructions that are written to provide proper guidelines for product installations. Warranties WILL NOT be honored on broken items or damaged electronics due to shorting or pinched wires.

**Components:** The Heat Demon for Gold Wings Kit includes the adhesive backed heaters, the 4 level temperature Controller, the mounting spacer, cap screws and washers, the electrical wires and connectors, heat shrink tubing, conduit tubing, adhesive, tie wraps, stir sticks, a plastic snake and Instructions to assist the installation.

**Tools and Supplies:** A pliers and wire cutter, a regular phillips and a smaller long shaft phillips screw driver, 5 mm Allen wrench, brake cleaner fluid and rags.

### Installation:

- A. Remove the side panel to access the battery.

**!!! Warning !!! Warning**

**To protect against shock and accidental start-up of the vehicle, disconnect the battery cables, negative cable first, before proceeding. Inadequate safety precautions could result in death or serious injury.**

**!!! Warning !!! Warning**

**Always disconnect the negative battery cable first. If the positive battery cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.**

- B. Disconnect the battery, negative cable first, according to the service-manual instructions.

### Installation of Heaters and Controller

**The 4 level Controller can be mounted on the left or right side of the handlebar so choose the side and location that will provide the easiest installation and most convenient operation. The width between the holes will allow the Controller to be mounted directly to the clutch or brake perch assembly. The Controller and Spacer will replace the clamp that holds the brake or clutch assembly to the handlebar.**

This instruction will describe the installation of the Controller on the throttle or right side; however the same basic steps, with minor changes, would be followed for the installation on the clutch or left side.

**The installation is divided into 4 areas. A) Heater Installation, B) Controller Installation, C) Power and Electrical Installation, D) Grip Replacement.**

## A. Heater Installation:

1. Remove the existing grip from the clutch side and the grip attached to the throttle sleeve. Removing the grips may require blowing compressed air in the end between the grip and the bar, heating, injecting brake cleaner fluid, inserting and working around a small Phillips screw driver or piece of antennae, or cutting it off.
  - For 1800 Models removing the grips is fairly easy because when the bar end weights are removed the end of the grip is open and allows access for inserting tools between the grip and the bar or throttle sleeve.
  - For 1100, 1200, and 1500 Models the end of the grip is closed so access to the area under the grip is not as easy. The switch housing on the clutch and throttle side will probably need removing for access to the end of the grip or it might be faster and more economical, because of the time involved, to simply cut off the grips and replace with stock grips.
  - For Gold Wing Models that have had the stock grips replaced with Kuryakyn or similar grips, these can be more difficult to remove. Typically these are installed with an instant type adhesive or cyanoacrylate. To remove, it helps to heat the grip with a heat gun to make them more flexible plus it helps to pry over the rubber sections so a finger nail remover or acetone type of solvent can be poured inside. Let the solvent work for a few minutes, then use a firm grip force to twist the grip forward and backward which will usually release the cover from the bar or throttle sleeve. Some of the rubber maybe torn loose from the inside of the grip but this is not a problem because there is sufficient surface left to adhere over the heaters.
2. After the grips are removed, scrape off or sand the surface of the handlebar and throttle sleeve so it is clean and smooth. Clean with alcohol to remove any grease or adhesive.
3. Determine where the clutch side heater will be mounted. Take the heater marked "Clutch" (see #7 below) and place it on the handlebar approximately 1 inch from the end and decide the position of the wires. It is recommended to mount the heater so the wires exit the grip on the bottom so they can be routed through the handlebar with the wire bundle from the switch housing.
4. Peel off the release paper and adhere the heater to the handlebar with the wires toward the headlight. Pre-forming the heater into a small diameter cylinder and pressing down the edges will help the adhesion to the handlebar. On the GL1800 and GL1500 models, remove the cover from the inside of the handlebar on the clutch side so the heater cable can be routed to the throttle side with the other wires. Route the cable from the left side through the yoke area to the area inside of the right handlebar where the electrical connections will be made. Add wire ties as required. On the Model 1500 and possibly other bikes, the center cover around the switch can be removed to help route the cables.
5. The throttle side heater is installed on the throttle sleeve under the rubber cover. Determine where the throttle side heater will be mounted. Take the heater with the shorter cable (see #7 below) and place it on the throttle sleeve approximately 1" from the end and decide the position of the wires. It is recommended to mount the heater so the wires exit the grip on the bottom with a loop to allow for the full twisting motion of the throttle.
6. Peel off the release paper and adhere the heater to the throttle sleeve with the wires toward the headlight. On the GL1800 and GL1500 remove the cover from inside of the handlebar on the throttle side and route the throttle heater wires to this area where they will connect later to the other wires. Add wire ties as required but leave a loop in the cable as shown in FIG 1 (below) to assure there is free rotation of the throttle.
7. If the Controller is mounted on the Clutch or left side, install the heater with the shorter cable on the clutch side and install the heater marked "Clutch" on the throttle side.

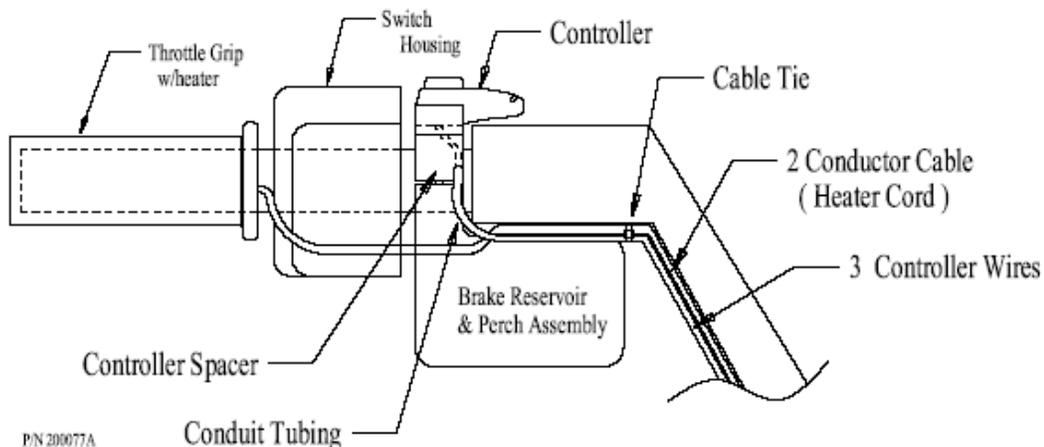


Fig 1

## B. Controller Installation:

1. The new 4 level Controller and Spacer will replace the perch clamp that secures the Brake Reservoir Assembly to the handlebar, like shown in the picture on the front of this package. With a 5mm Allen wrench remove the perch clamp and replace it with the Controller.
2. Along with the Controller a new spacer and longer 40mm screws are also utilized as shown in FIG 1 above. The wires from the Controller are fed through the round top of the spacer and out the bottom. Because the Controller and spacer can be mounted on the Throttle or Clutch side there are 2 angled holes and there is a relief in the underside of the spacer for the cable to go either direction. Assemble the Controller and Spacer so the bottom shape of the Spacer matches the shape of the perch assembly and the wires exit on the bottom side.
3. Attach the Controller with spacer to the Brake Reservoir perch assembly and tighten to the handlebar with a 5 mm Allen wrench. Take care when tightening so the wires from the Controller are not pinched under the spacer. Tighten so there is an equal gap on each side between the spacer and the perch assembly.
4. Slide the piece of conduit tubing from the kit, the larger diameter tubing, over the wires and slide up to the bottom of the spacer to hide the wires.
5. Route the cable from the Controller along with the wire bundle from the switch housing to the area inside of the right handlebar so the electrical connections can be completed. Add cable ties where required.

## C. Power and Electrical Installation:

1. The 12V power for the Controller and grip heaters will typically come from the accessory plug that is located under the left side storage compartment. Remove the storage compartment and set aside or let hang if it has a cigarette plug installed.
2. Run the end of the 6 foot 2 wire (black and red) power cable through the side wall into the area under the left storage compartment from the yoke area. On the Model 1800 bikes, the cable can be routed through the hole in the side wall with the crossover hose.
3. The electrical connections to the accessory plug can be made using the red splice connectors in the kit or by soldering. The red power wire should be connected to the 12V positive accessory wire on the accessory plug. This should be the light green wire with the black stripe on the 1800 Models. Check the service manual for other models. The black ground wire should be connected to a good ground on the bike. This would be the dark green wire on the accessory plug of the 1800 Models and usually the second wire of the accessory plug on the other bikes but check with a meter to be sure.
4. On the GL1800 and GL1500 models, route the power cable through the yoke area to the area inside the right or throttle side handlebar where the electrical connections will be made to the other wires. Check to assure that there is no binding of this cable or the clutch heater cable when the handlebar is rotated or steered from full left to full right.
5. At the area inside the right or throttle side handlebar, complete the electrical connections from the power cable to the Controller, the clutch heater, and the throttle heater as shown on FIG 2 (below). There is a short piece of red wire in the kit that is a jumper for the 12V connection. The connectors with the red cap can be used or the wires can be soldered together. If soldering the wires, the heat shrink tubing from the kit, the smaller diameter tubing, should be cut into pieces and slid over the wires, then the wires twisted together, soldered, and followed by shrinking the tubing for a good insulation. There is not a lot of room inside of the handlebar casting, so if the connectors are too big the wires should be soldered. If the connectors are used, follow the procedure below.



Push the wires into the connectors to the end and using pliers push the red cap down to pierce the wires and make the connection. Grease will also need to be pushed out to assure a good connection. Wipe off the grease and pull on the wires to assure a good connection.

6. Reconnect the battery cables. **!!Warning!! Always connect the positive battery cable first.**
7. Turn on the accessories switch and check that the Controller is wired properly by pressing the button and confirm that each time it is pressed the 4 lights turn on and off. Also, feel the clutch and throttle heaters to confirm they are warm.
8. Tie wrap the wires to the cable harness. On the GL1800 and GL1500 tuck all of the wires inside the right handlebar and replace the cover. Also replace the cover on the left side handlebar along with replacing the left storage compartment.

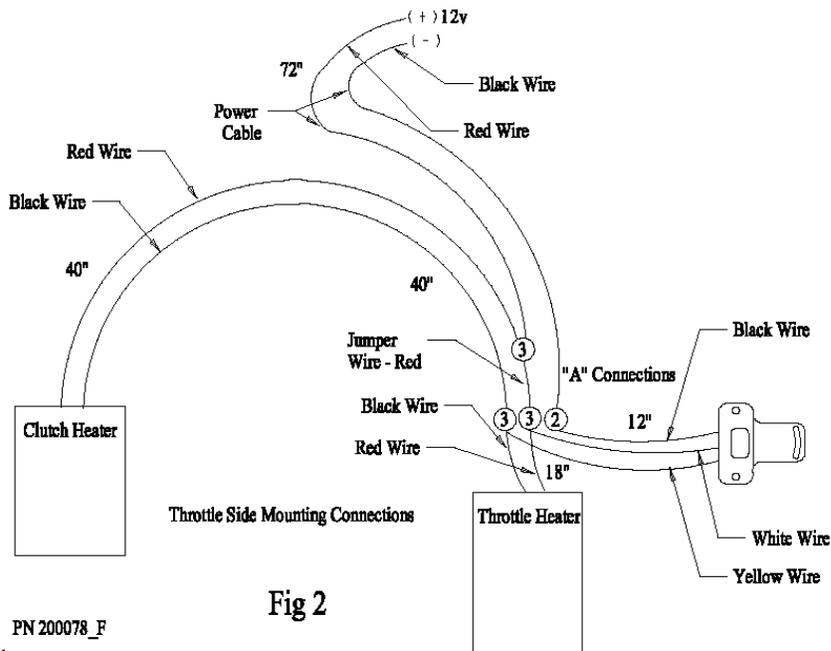


Fig 2

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**D. Grip Replacement:**

1. Mix the high temperature 2 part adhesive in the kit by squeezing out the 2 sides and mixing together.
2. Apply half of the adhesive to the inside of the clutch grip and on the clutch side handlebar surface. To keep the adhesive from being squeezed off, tape a plastic stir stick to the clutch side handlebar and place part of the adhesive on each side of the tube. Push the left grip over the clutch side heater on the handlebar. Pull out the plastic tube. Wipe off the excess adhesive and let cure overnight.
3. Apply the other half of the adhesive to the inside of the throttle grip and on the surface of the throttle sleeve. To keep the adhesive from being squeezed off, tape a plastic stir stick to the throttle sleeve and place part of the adhesive on each side of the tube. Push the right grip over the throttle side heater on the throttle sleeve. Pull out the plastic tube. Wipe off the excess adhesive and let cure overnight.
4. If Kuryakyn Grips are added complete the following steps.
5. Remove the liner from the rough sandpaper that is included and adhere it to a 1/2" or 5/8" diameter rod and roughen the entire inside of the grip. A wrench handle, socket extension, utensil handle, drill or other item that will fit inside of the grip and reach to the bottom can be used. Roughening the inside of the grip will remove the mold release oil or old adhesive and provide grooves that the epoxy adhesive can attach to.
6. The two part epoxy adhesive is contained in the small white ups marked Part A and Part B. Open the cups and transfer the entire contents of one cup to the other cup, using the enclosed stir stick to wipe out the contents. It is important that all of the epoxy is removed from the cup to ensure it will harden properly when mixed. Mix the two parts very well with the enclosed craft stick. Place about 1/4 of the epoxy adhesive in the bottom inside of each grip and spread around with the wooden craft stick. Next place half of the remaining epoxy adhesive in the inside entrance of each grip.
7. With the epoxy inside the grips, slide the left grip onto the handlebar and the right grip over the throttle sleeve. Rotate the grips to the desired orientation and wipe off any excess epoxy adhesive.
8. The epoxy adhesive will cure in 18 hours at room temperature or it will cure in 2 hours with the Heat Demon Controller set to the highest heat level. Do not move the grips until the epoxy adhesive is cured.
9. Replace the bar end weights on the 1800 Models with standard grips.

**Operation:**

The Controller will provide 4 levels of heat to the heaters inside the grips on the handlebar. It takes about 10 minutes to reach the controlling temperature.

Press the button on the Controller once and the Yellow light or LED shows that the lowest level of heat is selected.

Press the button a second time and the Orange light or LED will indicate the next higher level of heat has been selected.

Pressing the button a third or fourth time will select higher levels of heat for colder conditions.

Pressing the button a fifth time will shut off all of the lights and the power.

Holding the button down for 3 seconds will lower the intensity of the LED's for night operation. Holding it down again for 3 seconds will adjust the LED's for daytime use.



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