

STEP 6 - SETTING YOUR CONTROLLER TO THE CORRECT GRILL MODEL

- New digital controllers come pre-programmed to an SPG600 (Large Grill)
- The following controller programming reset must be done for an SPG400 (Small Grill)
- To reset the system to defaults for your specific model (which changes the model selection displayed in the Power On Mode),
 - Press and hold the Pellet Prime and Probe Display keys for 6 seconds. After the first 3 seconds, the display will show C - 1 followed by the current model number (either 605 or 405).
 - To change the model, use the Temp Up / Down keys.
 - After the correct model is selected, press the On / Off key to save model and reboot system.



SPG Digital Programmable Controller

Retrofit Instructions and Information

For additional information and installation video, visit

www.sawtoothpelletgrills.com

support page.

Upgrade for models include:

SPG-400, SPG-600

INSTALLATION PROCESS INCLUDES:

- Removing existing controller
- Installing new grill temperature probe
- Wiring and mounting new digital controller
- Optional – Wiring and mounting meat temperature probe

YOUR RETROFIT KIT INCLUDES THE FOLLOWING:

- Controller
- Controller Hardware
- Temperature Probe – aka RTD
- Temperature Probe Hardware

TOOLS NEEDED:

- Drill
- Drill Bit (provided) - 13/64"
- Inside and Outside Template Sheets (provided)
- Tape
- Pencil (or other marking tool)
- 8mm Socket
- Wire Crimper

BEFORE YOU GET STARTED:

Before attempting to remove or install your new controller it is important that the power is OFF and the Power Cord is disconnected from the electrical outlet.

Although the power button is off, electricity is still present at the controller when plugged in. Failure to disconnect the Power Cord from the electrical outlet could result in personal injury from electrical shock and/or irreparable damage to the controller.

STEP 1 - PELLET HOPPER PREP

- Remove at least 3" of pellets from the hopper if full
- Remove pellet hopper side panel using 5/16" or 8mm socket or wrench - see Fig. 1
- Unplug fan connections
- Set hopper panel aside
- Disconnect wiring harness from controller - will be a white plastic block

STEP 2 - TEMP PROBE PREP (OUTSIDE):

- Open pellet hopper lid - see Fig. 2
- Fold provided outside grill template sheet along dotted lines as instructed on template
- Once folded, place template in corner between pellet hopper and grill - see Fig. 2
- Line up the top of template sheet with top of pellet hopper

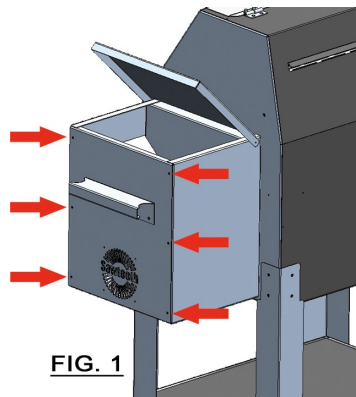


FIG. 1

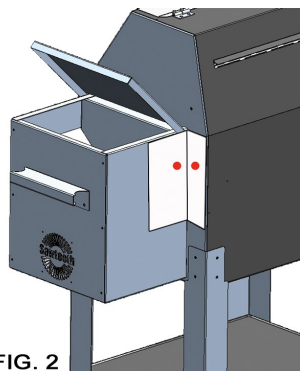


FIG. 2

- Simply use drill bit end (or pencil) to pierce paper and mark holes
- Now that the holes are marked, you can begin drilling your first two holes using the 13/64" drill bit
- One into the hopper and one into the grill
- Lightly hammer the hollow pins provided (FIG. 2a) in to the holes from the outside. One end will be narrower than the other.
- Fig. 3 illustrates how the finished retrofit will look

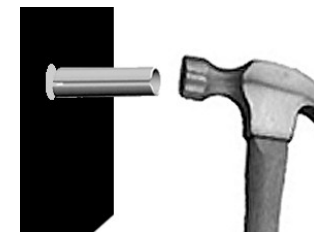


FIG. 2a

STEP 3 - TEMP PROBE PREP (INSIDE):

- As done in the previous step, use the provided template to mark holes where probe will be mounted - see Fig. 4
- Using the same 13/64" drill bit, drill holes
- Two holes – one at 2" from the back corner and the other at 2.5"
- Both holes will be exactly in the center of the right side grill grate bracket
- Hole closest to back corner will be where the probe is fed down through – the other will be used for the screw, washer and nut that holds the probe secure
- Fig. 4 shows end result

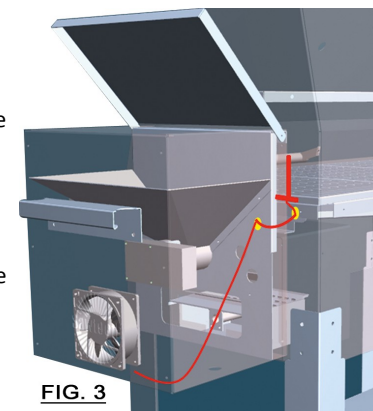


FIG. 3

STEP 4 - CONNECTING NEW CONTROLLER

- Remove old controller - 2 screws
- Drill out larger holes for new controller using provided 13/64" drill bit
- Mount new controller with provided hardware - be sure not to over tighten
- Connect new controller wire harness adapter
- Connect new meat probe adapter (optional) - see instructions boxed with meat probe

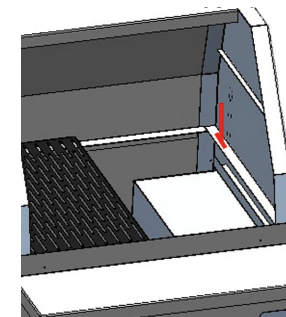


FIG. 4

STEP 5 - WIRING TEMP PROBE TO CONTROLLER

- Feed probe bare wire through hole in right side grill grate from the top
- Using provided hardware, secure probe using screw and nut
- Feed wire out from grill body and into pellet hopper
- Crimp end of bare probe wires with the provided red wire terminal connectors
- When crimping, crimp toward the connector end to ensure good connection between wire and connector. Be sure only bare wire is crimped avoiding any sheathing as this can cause probe failures or false temperature readings
- Connect wire terminals to back of digital controller into terminal posts marked "RTDA"
- Connect new controller wire harness adapter

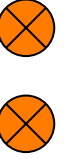
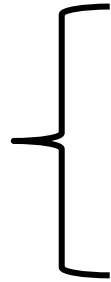


FIG. 5

Back Edge - Inside Grill



*Drill 7/32" Holes
Here at 2" and 2.5"*



Right Edge - Inside Grill



Controller:

- Enlarge controller bracket holes on grill body with 5/32" drill bit



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Top Edge Of Pellet Hopper

Fold Along Dotted Line

Pellet Hopper Side

Grill Side



*Drill 7/32"
Hole Here*



*Drill 7/32"
Hole Here*

