



KITCHEN BRAINS®
(FAST) MODULARM SCK

INSTALLATION GUIDE

(FASTRON.)® MERIDIAN CONTROLLER UPGRADE KIT Dean Fryer



Upgrade Kit for DEAN SR142G Gas Fryers

Save the instructions
for future reference.

www.KitchenBrains.com

24/7 Toll-Free Technical Support
1-800-243-9271

(from the U.S., Canada and the Caribbean)

NOTICES

Before you start, please read entire manual.



Kitchen Brains is not liable for any use of product not in accordance with Kitchen Brains installation and operation instructions.

Before using this equipment, or for any questions on the operations of the appliance, consult and follow all instructions and safety warnings found in the appliance operator's manual supplied from the manufacturer of the appliance.

CONTROLLER OPERATING ENVIRONMENT

The solid state components in this controller are designed to operate reliably in a temperature range up to 158°F/70°C. Before installing this controller, it should be verified that the ambient temperature at the mounting location does not exceed 158°F/70°C.

CLEANING THE CONTROLLER

Using a clean damp cloth, wipe down your controller daily using a commercial quality foodservice-approved detergent.



NEVER use chemical or abrasive cleaners on your controller. The controller's overlay may be damaged.



NOTE

Read all of these instructions carefully before using your (FASTRON.)® Meridian MEC-110. If any problems occur, or if you have any questions about the instructions, contact Kitchen Brains toll-free at 1-800-243-9271.



WARNING

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

PARTS IN KIT:

- Header
- Heat shield
- Power harness
- Probe
- Two Blue male fastons
- Two 10-32 nuts
- Two 10-32 screws
- One 6-32 nut

TOOLS INCLUDED:

- Side cutters
- Wire stripper
- Faston terminal crimp tool
- Flat blade screwdriver
- Philips screwdriver
- 1/4in nut driver
- 5/16in nut driver
- Channel-locks
- Drill for #10 screw
- 1/2in, 9/16, 5/16, 3/8, and 14mm wrenches

- There are two heat shield plates:

1. First heat shield plate-remove four screws at each corner (Phillips head screwdriver 5/16 Nut driver required)
2. Second heat shield plate-remove two screws-one at each side (Phillips head screwdriver 5/16 Nut driver required)

Step 2: Remove Thermostat

Remove thermostat knob and the two thermostat mounting screws; remove the two wires from the thermostat cut the wires close to the thermostat.

- Thermostat knob is located at the bottom of the fryer-pull knob off to find two screws that hold it in place (Phillips head screwdriver required)
- Cut the two wires (Black & Red) very close to the thermostat connection leaving enough wire in length for future connector assembly for Meridian upgrade kit



- Removing front cover requires the removal of four screws located at each corner of the panel (Phillips head screw driver required)
- Burner removal-loosen upper two bolts-lift upward, tilt forward then lift outward from bottom then pull out yield plates

Step 3: Removing the Probe

3A: There are two probes, one is the high limit, and the other is the control probe. The control is the probe closest to the fryer center. Follow its capillary tube down through its fitting in the bottom of the fryer and verify it goes to the thermostat the one with the temperature knob.

- Identify the probe
- Follow the wire to the capillary tube on that sticks out from the bottom of the fryer

3B: Once verified remove the bulb from its bracket. You will have to bend the front holder back to free the tip of the bulb. You will have to bend the split bracket at the capillary tub end. Lift the tip out then bend the probe up vertical and out of the slot in the bracket.

- Use caution when bending bracket tabs, as excess bending will cause tabs to break

3C: Remove the capillary tube fitting from the bottom of the vat.

- Unscrew from the base and pull out from under

3D: Pull the thermostat and probe assembly out through the bottom.

Step 4: Installing the New Probe



4A: Following the path of the original probe feed the ends of the probe wires down and through the probe hole in the bottom of the vat. It may be helpful to feed a stiff wire up from the bottom through the probe hole. Tie the probe wires to the stiff wire and pull the wires down through.

- Use stiff wire as indicated for easy installation

4B: Push the probe wire end of the well down through the probe hole. Push down and forward to get the probe tip in the bracket first. Then push the other end of the probe down into the bracket slits.

4C: Bend the bracket at the tip up to its original position. Bend the bracket split over to its original position.

- Gently bend them back into position

4D: From the bottom, slide the compression fitting on the probe wires and probe well and into the vat probe hole. Just get it started. May have to bend the probe slightly as needed to get the thread started.

4E: Slide the compression ferral, then compression cap over the probe wires and well. Just get the cap threads started.

4F: Tighten the compression fitting only into the vat probe hole. The cap must remain loose till later.



4G: Inside the vat verify the probe is positioned correctly. The length going down to the bottom of the vat is not touching the heat tube. The probe tip sticks out of the bracket about 1 in. Then on the bottom, tighten the compression fitting cap tightly.

Step 5: Installing the Power Cable

5A: Pass power cable from front to rear of fryer.

5B: Using power box as template on rear right side, drill 4 holes for # 10 screws. Mount box.

5C: Locate the new heat shield. Mount it in the location of the old.

5D: From the rear of the heat shield mount power cable in the large hole. Remove and discard the large rubber washer first. Holding cable against left side wall, tighten the harness nut to the heat shield.

5E: Using two or three cable ties and stick-on tie holders, attach the power harness to the fryer left side vertical frame and along the bottom left side frame.

Step 6: Install Burners and Small Heat Shield

6A: Install the two burners by reversing the removal process.

6B: Install the small heat shield by reversing the removal process.

6C: Tighten fitting on an angle towards side wall to help guide the cable down the frame.



7E: Locate the white and black wires from the power harness and connect them to the like color wires of the transformer on the header.

7F: Locate the green/yellow wire from the power harness and attach it to the 6-32 stud on the bottom of the header with a 6-32 nut.

7G: Position the header on the fryer and fasten with the four original screws. Make sure not to pinch the wires.

7H: Locate the probe wires passed through the heat shield and push them into pins 11 and 13 of the 15 pin connector.

Step 7: Header Installation



7A: Support the header in front of fryer or place on table or chair in front.

7B: Locate the loose ends of the red and black wires with the grommet on the header. Pass the wires through the small hole on the right side of the heat shield.

7C: Push the grommet into the hole.

7D: Locate the loose ends of the probe wires. Route the wire under the gas pipe and up the right side. Then pass them through the grommet from the rear.

Step 8: Connections to Gas Valve



8A: Locate the red and black wires from the gas valve cut from the T-stat. Strip and crimp the male fastens on each.

8B: Locate red and black wires from header passed through the small hole on right side of heat shield. Attach them to the matching colored wires from the gas valve in the previous step.

8C: Using one or two cable ties and stick-on tie holders, secure the probe and gas valve wires to the right side vertical frame. Allow for slack for the wires in the header.

Step 9: Install the Meridian



9A: Remove the two 1/4x20 screws and tinnermans from the Meridian.

9B: Slide the tinnermans over the header control mounting holes.

9C: Plug the 15 min connector into the control.

9D: Mount the control.

Step 10: Install the Door

Step 11: Plug fryer into the 120VAC 60Hz

11A: Apply power and verify operation.

11B: When fryer is plugged in the control will turn on. It will display a few message to identify its part and software numbers. Then display OFF.

11C: Press control's power button to turn it on. It will display "Melt".



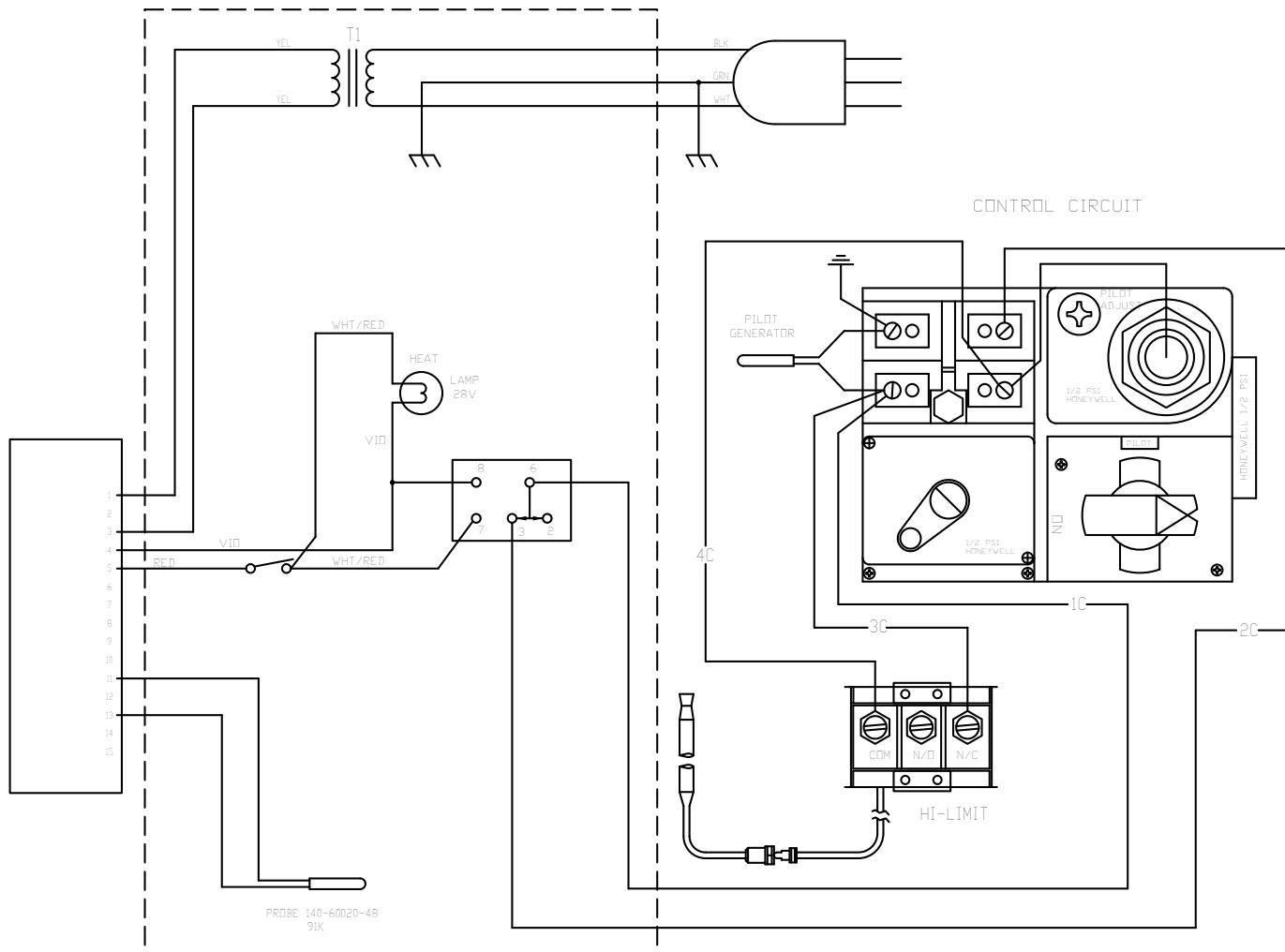
11D: Turn header power switch on. The indicator lamp should cycle on and off. Verify it cycles on and off a few times.

11E: When header lamp just turns on, switch header switch off, lamp should turn off. Quickly while still in the on cycle time, turn header power switch back on, lamp should light.

11F: When lamp just turns on, turn controls power button off. Lamp should turn off. Display should read off. Wait a while to make sure lamp does not turn back on.

Step 12: Fill with oil, connect gas, light pilot, and power it on.

WIRING DIAGRAM



Want to learn more about Kitchen Brains® products?

Visit our website:

www.KitchenBrains.com

Customer Service and Technical Assistance

Our customer service department is available for orders and questions Monday through Friday between the hours of 8 AM and 5 PM EST. Call us toll-free at **1-800-FASTRON (800-327-8766)** if you're in the US, Canada or the Caribbean, or at **203-378-6860** if you're outside of these areas.

Toll-free technical assistance is available 24 hours a day, 365 days a year by calling **1-800-243-9271** (from the U.S., Canada and the Caribbean) when help is needed immediately.

Free Program for Service Exchanges

Kitchen Brains provides an Exchange Program, at no extra cost, if a unit should fail. In the event of failure, you have the option of (1) receiving a replacement product from our factory, freight prepaid; (2) exchanging the failed product for a replacement product at one of our authorized local service centers; or (3) selecting on-site repair or replacement of the failed unit by one of our authorized local service centers.

To take advantage of this program, simply call our toll-free customer service number, **1-800-243-9271**. If you elect to receive an exchange unit from the factory, a replacement unit will be sent immediately. Upon receipt of the replacement unit, simply return the failed unit to the factory, freight prepaid, using the same carton and packing material in which the replacement unit was shipped. The unit will be replaced free of charge, if still under warranty, and if the product shows no evidence of abuse or alteration. If the unit is not under warranty, you will pay repair charges and shipping costs to and from the factory.

Any minor adjustment or calibration and any labor costs for the replacement of probes will be made at your expense.

The Kitchen Brains® Exchange Program is available to any Domestic Customer whose account is current, and applies to all Kitchen Brains® Timers, Computers and Controllers.



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