



**KITCHEN BRAINS**

Driven by **(FAST)** Networked by **SCK**

# INSTALLATION GUIDE

## (FASTRON.)<sup>®</sup> Controller Upgrade Kit



(FASTRON.)<sup>®</sup> VC-210 Controller Upgrade Kit Shown.

### An Upgrade Kit for the:

- Frymaster MJ-50 Split-Vat Fryer

Save the instructions  
for future reference.

[www.KitchenBrains.com](http://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.**

**Not all features are available on some models.**

## COOKING 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.

Do not allow oil to build up on any part of the controller.



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

## NOTE

Please read all instruction carefully before beginning the installation of this controller.

If any problems occur, or if you have any questions about the instructions, contact Kitchen Brains™ technical support toll-free at 1-800-243-9271; [www.KitchenBrains.com](http://www.KitchenBrains.com) (Support); or your local distributor.

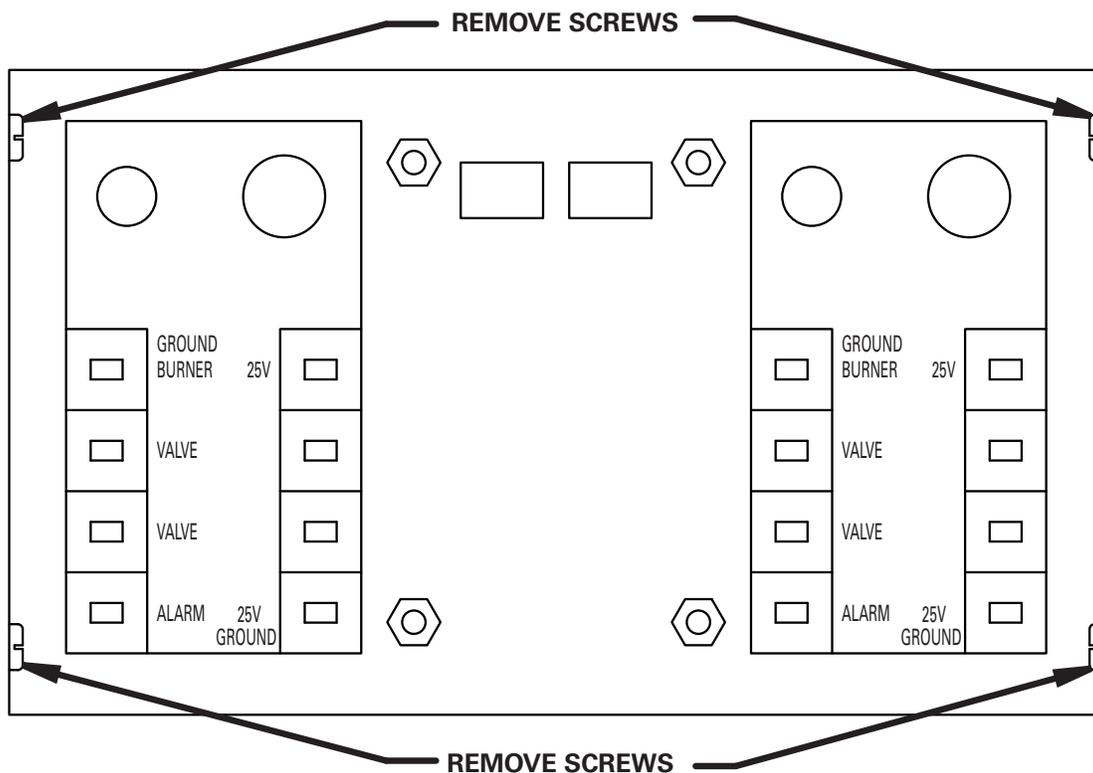
## GETTING STARTED

1. Unplug the fryer from the outlet.
2. Turn off the gas supply to the fryer.
3. Drain the oil from the fry pot.

## INSTALLATION

1. Remove the existing front panel.
2. Unplug the front panel from the fryer interface board.
3. Disconnect the wires from the interface board going to the ignition modules at the ignition module.
4. Remove the interface board from the fryer.  
**NOTE:** You have to unplug the harness plugged into the back of the interface board.
5. Remove the four (4) screws holding the “box” from the front of the fryer. See **Figure 1**.
6. Remove the fryer sensing probes. Replace with the supplied (FAST.)<sup>®</sup> probes.
7. Remove the old sensor wires from the fryer harness (pins 2 and 6 of the 12-pin connector).
8. Insert the (FAST.)<sup>®</sup> probe wires into place (pins 2 and 6 of the 12-pin connectors).
9. Re-attach the “box” to the front of the fryer and secure with the four (4) screws.

Figure 1

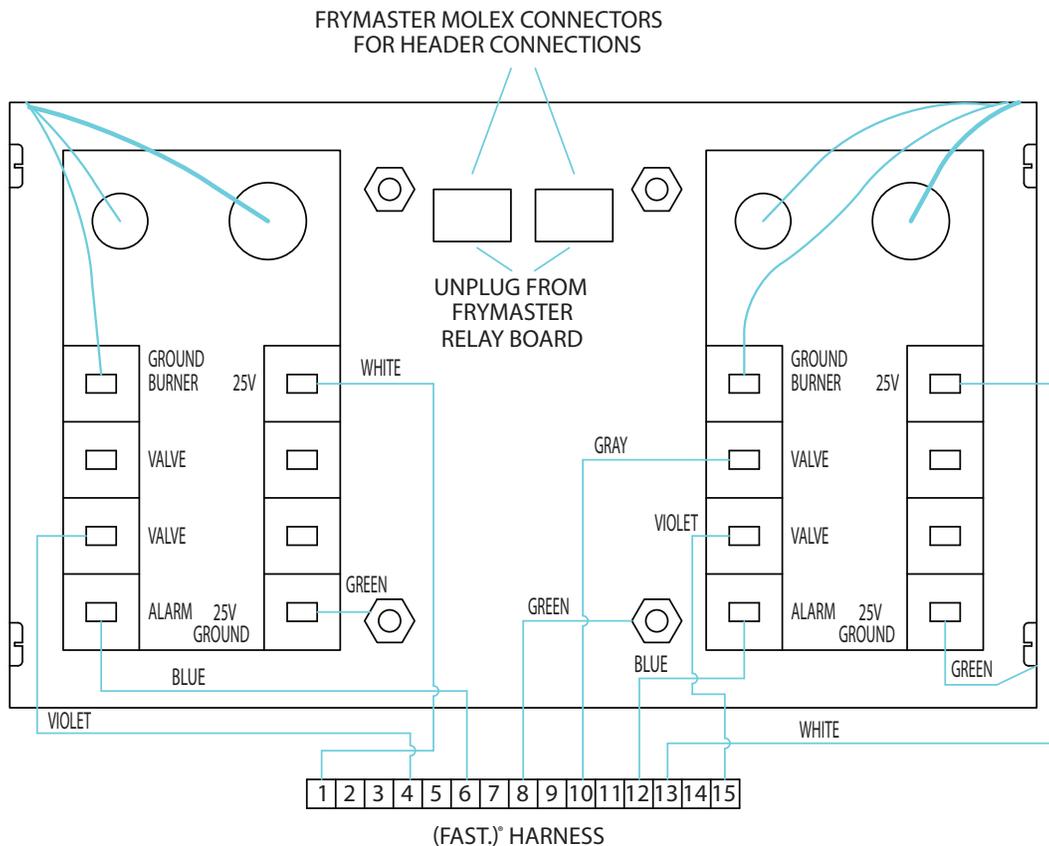


## HARNES INSTALLATION

- Using the (FAST.)<sup>®</sup> header adapter harness (15-pin connector), attach the wires accordingly. See **Figure 2**.

Pin 1	White	25V (left)
Pin 4	Violet	Valve (left lower)
Pin 6	Blue	Alarm (left)
Pin 8	Green	Ground (chassis)
Pin 10	Gray	Valve (right upper)
Pin 12	Blue	Alarm (right)
Pin 13	White	25V (right)
Pin 15	Violet	Valve (right lower)
<b>Additional Wires</b>		
Chassis Ground	Green	25V Ground (left)
Chassis Ground	Green	25V Ground (right)

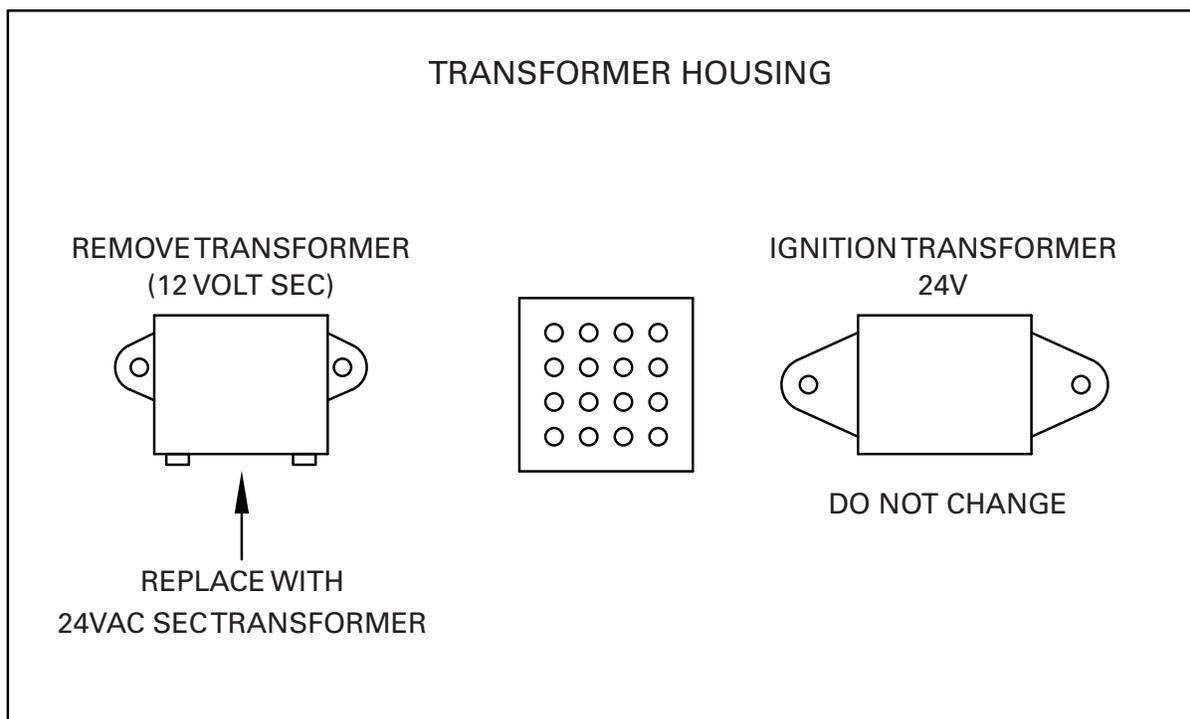
**Figure 2**



## TRANSFORMER INSTALLATION

1. Locate the transformer housing in the bottom rear of the fryer. See **Figure 3**.
2. Remove the top cover plate.
3. Looking from the front of the fryer, locate the transformer on the left-hand side of the box.
4. Remove the wires from the 12VAC transformer.
5. Remove the transformer and replace it with the (FAST.)<sup>®</sup> transformer.
6. Connect the 21C and 25C wires to the black wire on the (FAST.)<sup>®</sup> transformer.
7. Connect the 24C and 20C wires to the white wire on the (FAST.)<sup>®</sup> transformer.
8. Connect the 14C wire to one of the yellow wires on the (FAST.)<sup>®</sup> transformer.
9. Connect the 15C wire to the other yellow wire from the (FAST.)<sup>®</sup> transformer.
10. Re-attach the cover panel to the transformer housing.

**Figure 3**



## HEADER INSTALLATION

1. Remove the controller from the (FAST.)® header assembly.
2. Plug the harnesses from the fryer to the rear of the header.
3. Remove the front panel from the (FAST.)® header.

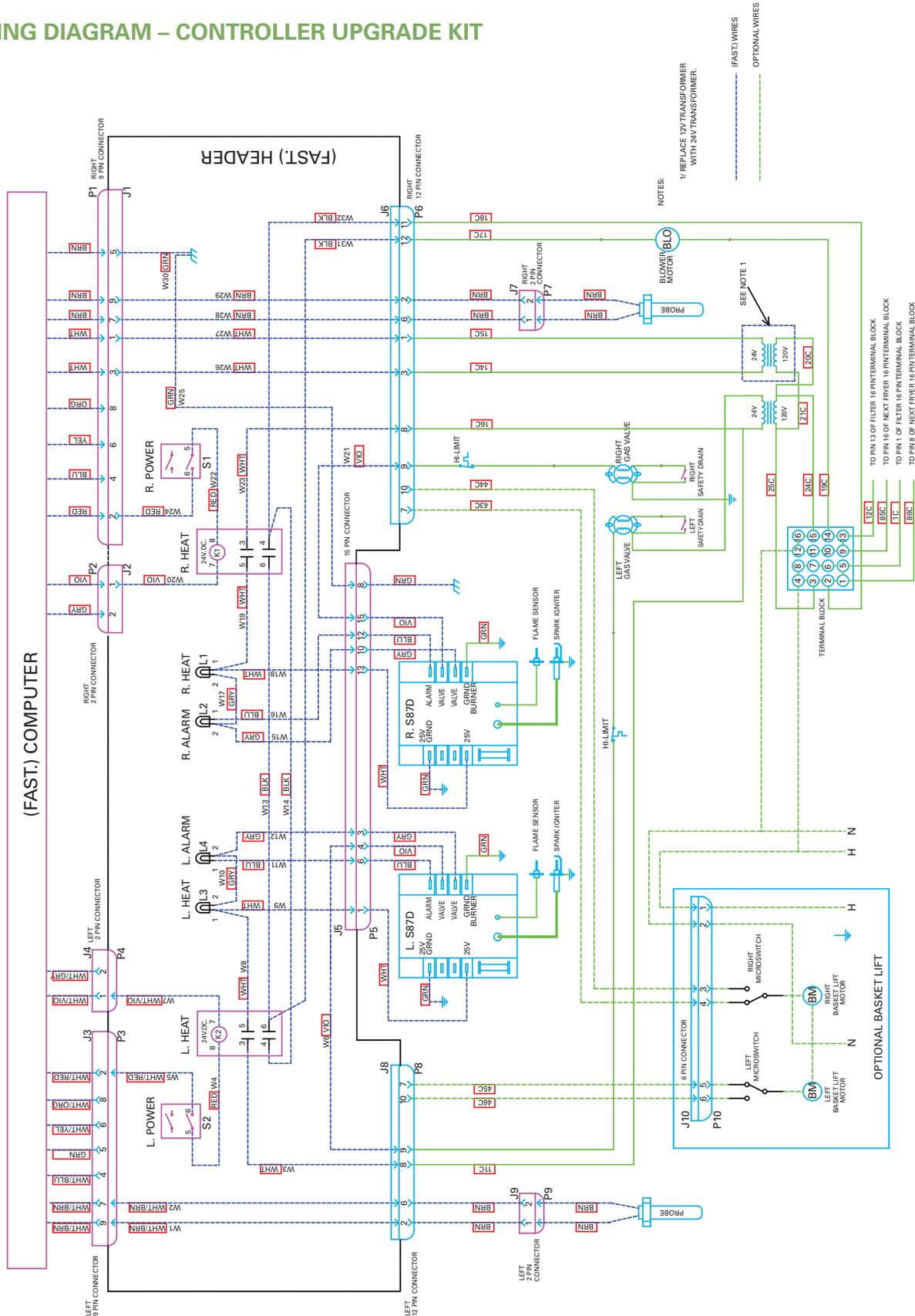
**NOTE:** Do not remove any wires.

4. Align the header on the front of the fryer.
5. Using the existing holes in the front of the fryer, secure the header with two (2) screws.
6. Re-attach the front panel to the header.
7. Attach the top cap to the top of the header.
8. Plug the (FAST.)® controller into the header.
9. Secure it with two (2) screws that were removed during step 1.

## START-UP

1. Fill the fry vat with oil.
2. Turn on the gas supply to the fryer.
3. Plug the fryer line cord into outlet.
4. Turn on the fryer.

## WIRING DIAGRAM – CONTROLLER UPGRADE KIT



227-50283 Rev C

## Want to learn more about Kitchen Brains™ products?

Visit our website:  
[www.KitchenBrains.com](http://www.KitchenBrains.com)



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## KITCHEN BRAINS

Driven by **(FAST.)** Networked by **SCK**

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### WARRANTY

Kitchen Brains warrants all new timers, computers, and controllers for 1 year from the date of purchase including computers, controllers, and timers. Kitchen Brains warrants all other items for a period of 90 days unless otherwise stated at the time of purchase.

### PATENTS

The products manufactured by Kitchen Brains are protected under one or more of the following U.S. Patents:

5,331,575	5,539,671	5,711,606	5,723,846
5,726,424	5,875,430	6,142,666	6,339,930
6,401,467	6,581,391	7,015,433	7,650,833
7,877,291	8,060,408		

Plus foreign patents and patents pending. Plus licensed patent 5,973,297

## 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.

You can also send an instant email message to a Kitchen Brains™ technician, Monday through Friday, 8am-5pm EST, by going to [www.KitchenBrains.com](http://www.KitchenBrains.com), selecting the 'Support' link at the top of the page, and clicking on 'Contact Tech Support.'

## 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.