

# WHOLE LATTE LOVE

## Brewtus I and II to “Gicar PID” conversion kit

These are basic instructions on how to convert the control system on a Brewtus with the AKO controller to a Gicar PID.

This type of job does require some experience with electrical wiring and should only be completed by people confident in their abilities and will take responsibility for any errors made during installation.

Overview:

Label the wires that lead to the AKO controller and then remove them and the controller.

The two wires (Red and White) that run to the relay in the AKO control are run down to the L1 and T1 terminals on the Solid State Relay (see wiring diagram). The Red and White wires are too short to reach the solid state relay so you have to splice on a 12' long heavy gauge (white with blue strip) wire to the existing red wire and a 6' long heavy gauge (white with blue stripe) wire to the existing white wire. We will supply two splice terminals and heat shrink to cover them.

Run a 12' blue wire to run from the M1 terminal on the PID to the A1 terminal on the Solid State Relay. Run a 12' long white wire from the M2 terminal to A2 on the Static Relay. Run a 3' blue jumper wire from the M2 to the M1 terminal as shown on the diagram.

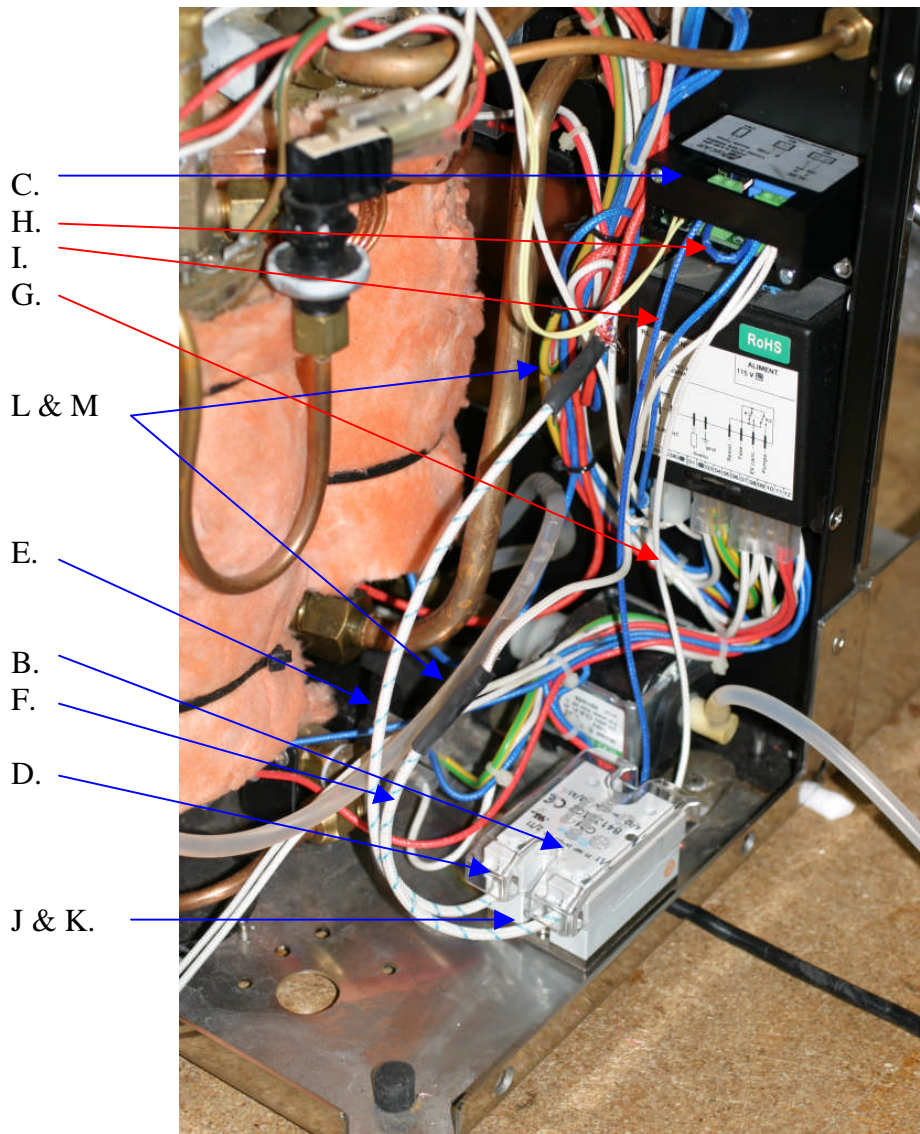
We have also supplied some heat transfer compound to use under the Solid State Relay. Drill holes and install the nuts and bolts to hold the Solid State Relay in place. After the wiring is complete push on the clear plastic “Relay Protection Box”.

Use a 17mm socket to remove the existing temperature sensor in the brew boiler. Use some Teflon tape on the threads of the new temperature sensor and tighten it into the boiler using a 17 mm open box or open-end wrench.

All the wire you need is in the kit. Please review the wiring diagram carefully before you proceed.

Let me know if you have any questions.

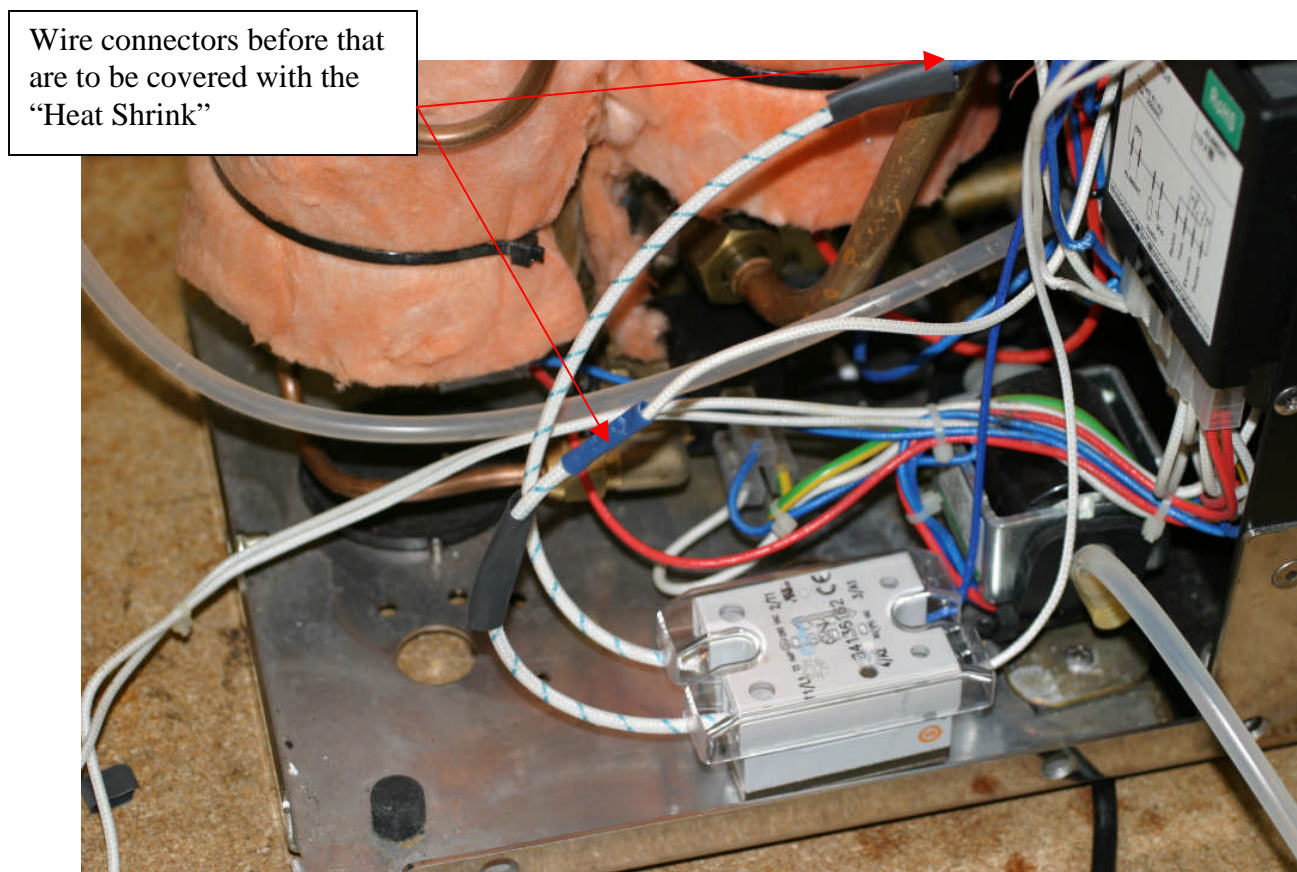
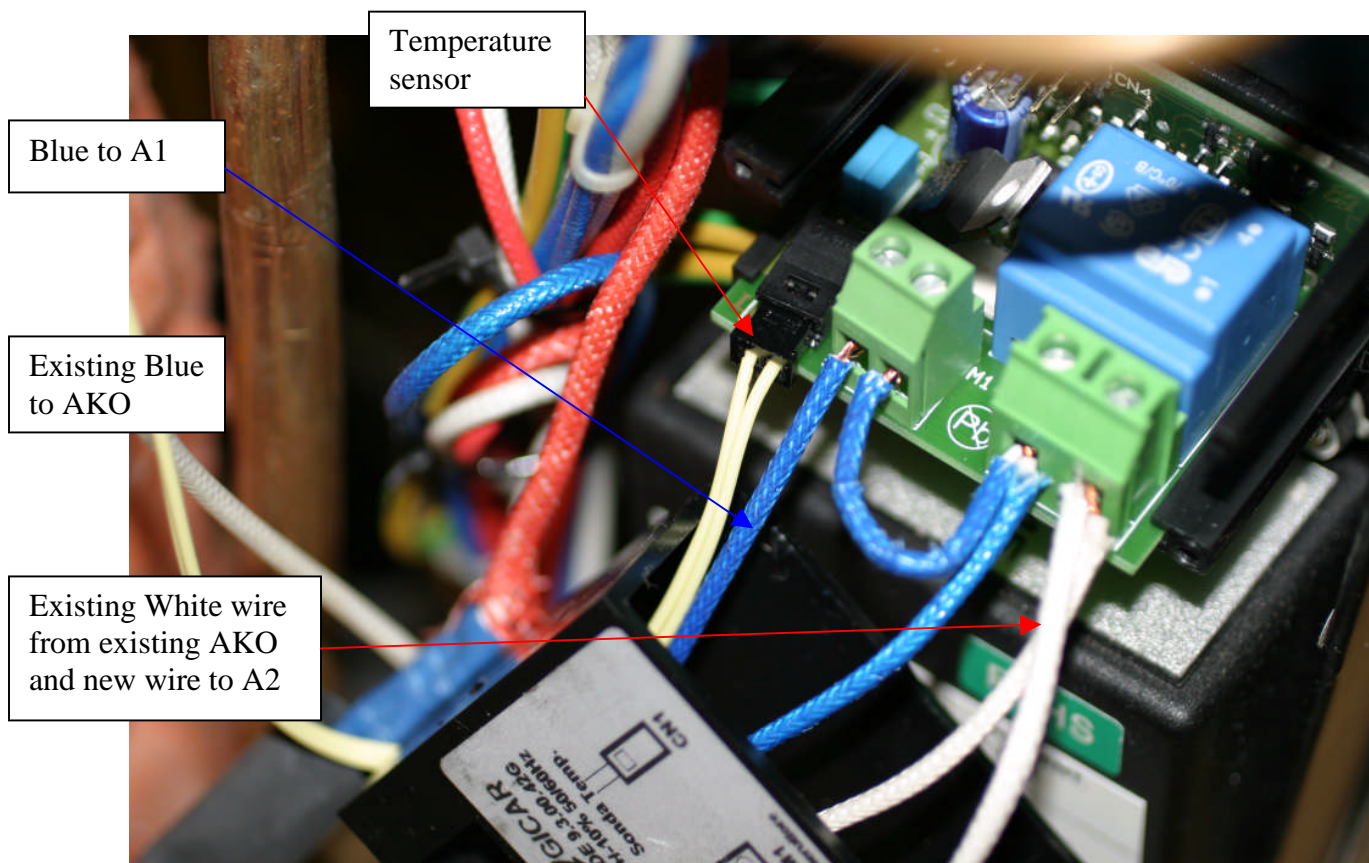
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#### AKO TO GICAR PID CONVERSION

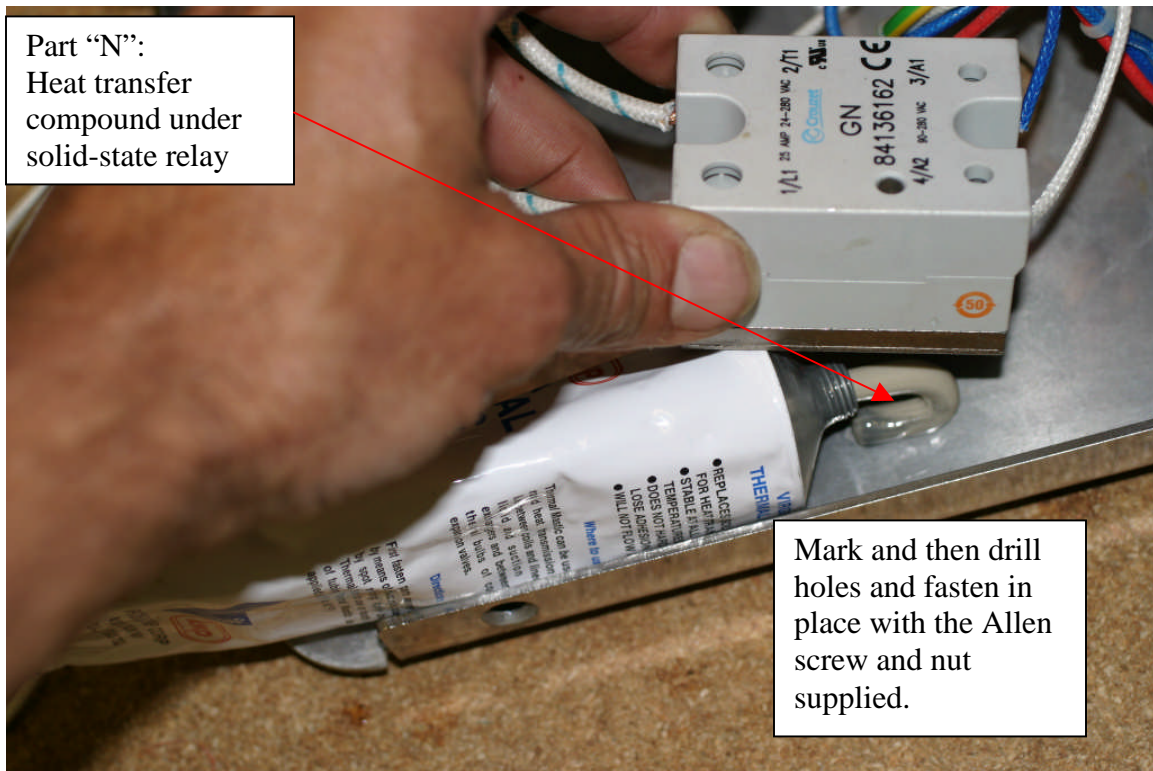
REF	QTY	SKU	DESCRIPTION	Cost
A	1	60100076	Boiler Temperature Probe	
B	1	60800100	Static Relay	
C	1	10200120	Gicar PID Display	
D	1	60800103	RELAY PROTECTION BOX	
E	1	45001150	12" MT FIBRE CABLE 1*1.5 WHITE	
F	1	45001150	6" MT FIBRE CABLE 1*1.5 WHITE	
G	1	45001050	12" MT FIBRE CABLE 1*0.5 WHITE	
H	1	45001051	3" MT FIBRE CABLE 1*.05 BLUE	
I	1	45001051	12" MT FIBRE CABLE 1*.05 BLUE	
J	2	25091220	ALLEN SCREW 5X12 DIN-912	
K	2	25093410	HEXAGONAL NUT M-5 DIN-034	
L	2	MC-7864K32	2" HEAT SHRINK	
M	2	MISC	WIRE CONNECTORS	
N	1	MISC	1 OZ HEAT TRANSFER COMPOUND	
Total				\$167.60





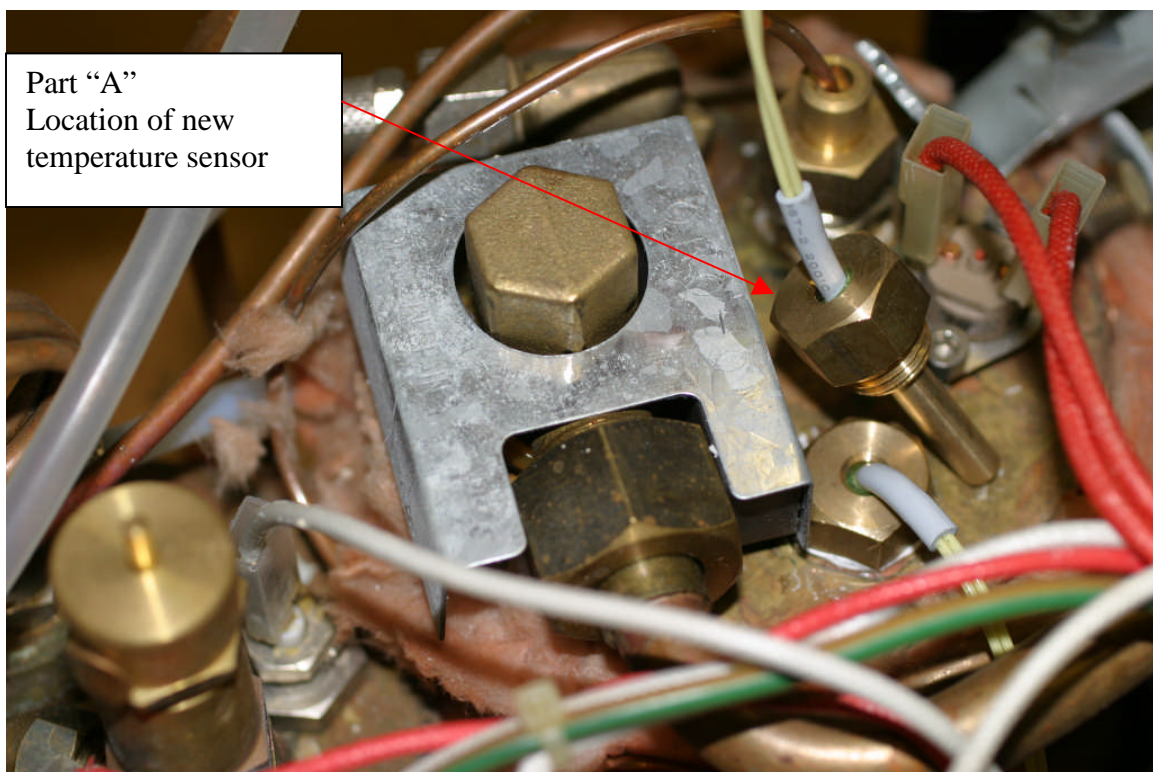


Part "N":  
Heat transfer  
compound under  
solid-state relay



Mark and then drill  
holes and fasten in  
place with the Allen  
screw and nut  
supplied.

Part "A"  
Location of new  
temperature sensor



Use a heat gun if you have it to shrink the cover. If not be very careful when using fire. Do not burn the wires!!

