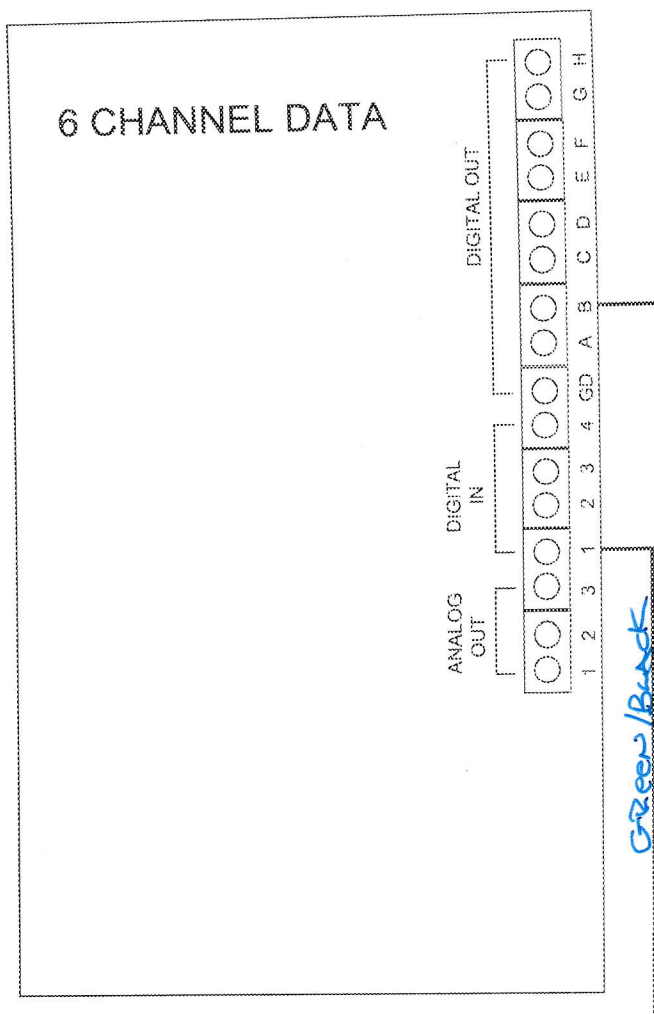


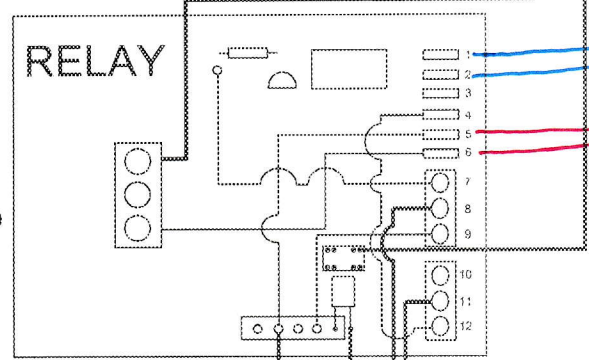
HTA/COBRA A/S



RED/ORG WIRE (A/S FUNCTION)

GRN/BLK WIRE (A/S START RUN)
 SOLDER WITH GRN/BLK WIRE FROM
 DISPLAY START RUN,
 AND SAME TERMINAL ON THE DATA
 BOARD.

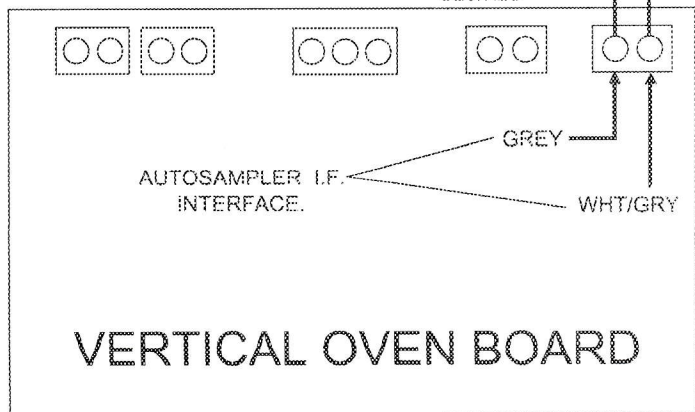
Green/Black
White/Brown



Yellow wires from Board...

Red Wires from BANDOLERO

JUMPERS
 COBRA 7-8 & 10-11
 HTA 8-9 & 11-12



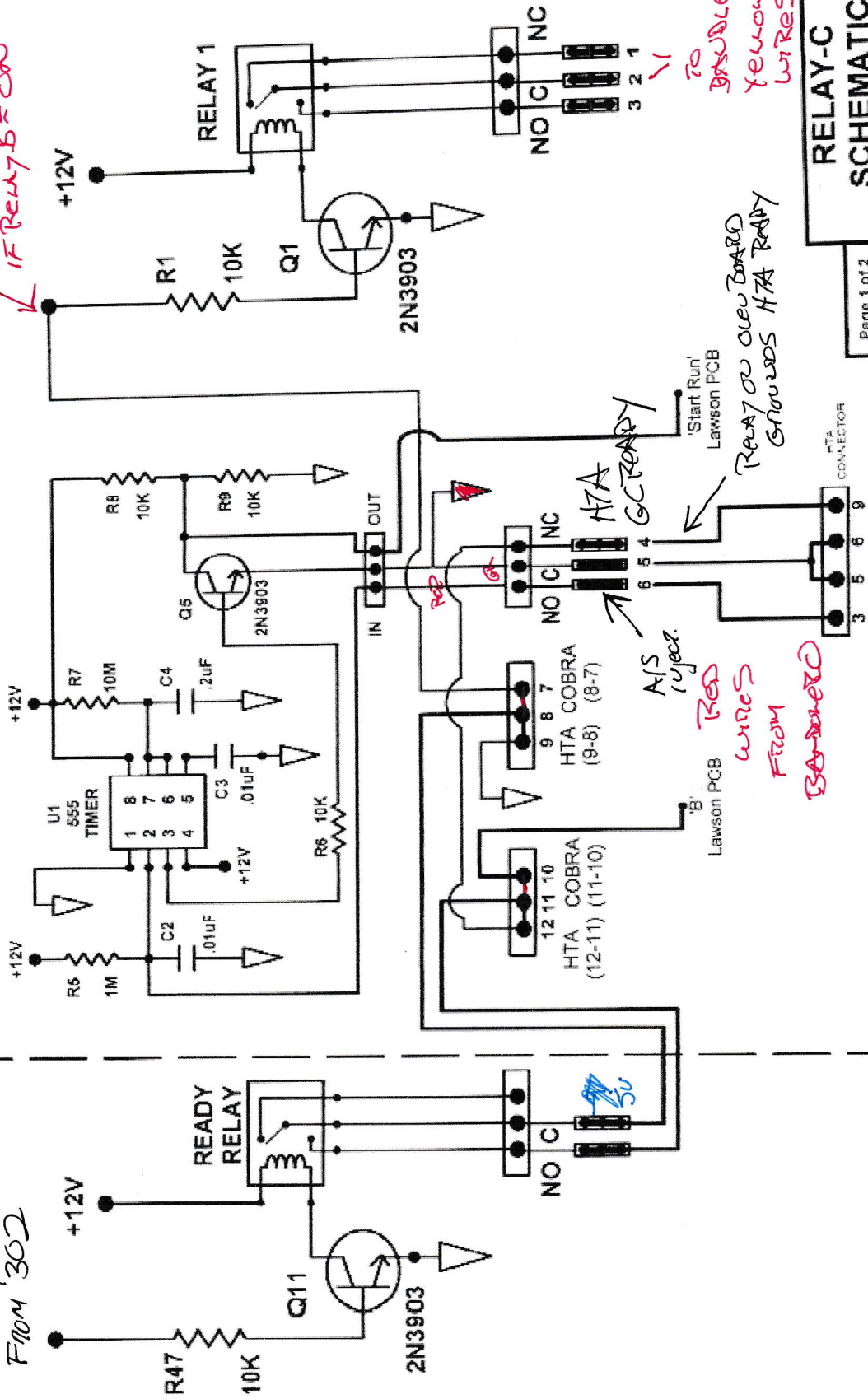
N12245
BANDOLERO
INTERFACE
9-6-2022

COBRA/HTA RELAY BOARD (HTA CONFIGURATION)

OVEN BOARD

Relay B
From 302

5 VOLTS
IF RELAY B = ON



RELAY-C SCHEMATIC

Communication with the Bandolero Autosampler is via relay contact closures. There are 2 outgoing relays in the Bandolero: START and PUMP. There are 2 incoming contact closure signals expected from the SRI GC: READY and RUNNING. READY (from the SRI GC to the Bandolero): OPEN Relay starts the Bandolero, CLOSED Relay means SRI GC is not ready START (from the Bandolero to the SRI GC): CLOSED Relay should start the SRI GC Relay is held CLOSED until it hears back from the GC that the run has started running RUNNING (from the SRI GC to the Bandolero): CLOSED Relay means the SRI GC run has started RUNNING is optional, a time delay in the Bandolero can be used if the GC doesn't have this signal PUMP (from the Bandolero to a power relay controlling the pump): CLOSED Relay means vacuum pump ON, OPEN Relay means vacuum pump OFF PUMP is optional. Some people choose to run their vacuum pump continuously. First you get the SRI GC ready to run a batch. Then when you turn the Bandolero power on and it will start an injection cycle as soon as it sees a READY OPEN Relay. The best vacuum pump would be a 2 stage diaphragm pump. It need not have a high flow rate capacity. The goal is to attain 27" Hg or better vacuum within 10 seconds or so. Many labs can find one of these laying around. There are rebuild kits for old units. This is an example of an off-the-shelf remote relay that can be used to run the vacuum pump:
<https://dlidirect.com/collections/frontpage/products/iot-power-relay> I don't sell pumps or remote relays. They can more easily be found locally. Bob Rousseau 530-219-3527 bob@xyztek.com xyzTek.com



Greg Benedict <sri8610greg@gmail.com>

relay board for SRI GC and Bandolero

Bob <BOB@xyztek.com>

Tue, Aug 16, 2022 at 2:42 PM

To: Greg Benedict <sri8610greg@gmail.com>, "Manning, Cara" <cara.manning@uconn.edu>

Cc: Hugh Goldsmith <hugh@srngc.com>, "Payyambally, Anagha" <anagha.payyambally@uconn.edu>, "Piela, Slawomir" <slawomir.piela@uconn.edu>

Hi Greg,

Bandalero out to start the GC is a relay closure, it is the 2 red wires.

An open relay to the "ready" (yellow wires) tells the Bandolero to run. A closed relay will make the Bandolero wait.

For testing or checking the alignment of the vials, you can turn on the Bandolero without the communication cable connected and it will run continuously (one injection after another) until you connect the 2 yellow wires together (contact closure).

Bob.

[Quoted text hidden]