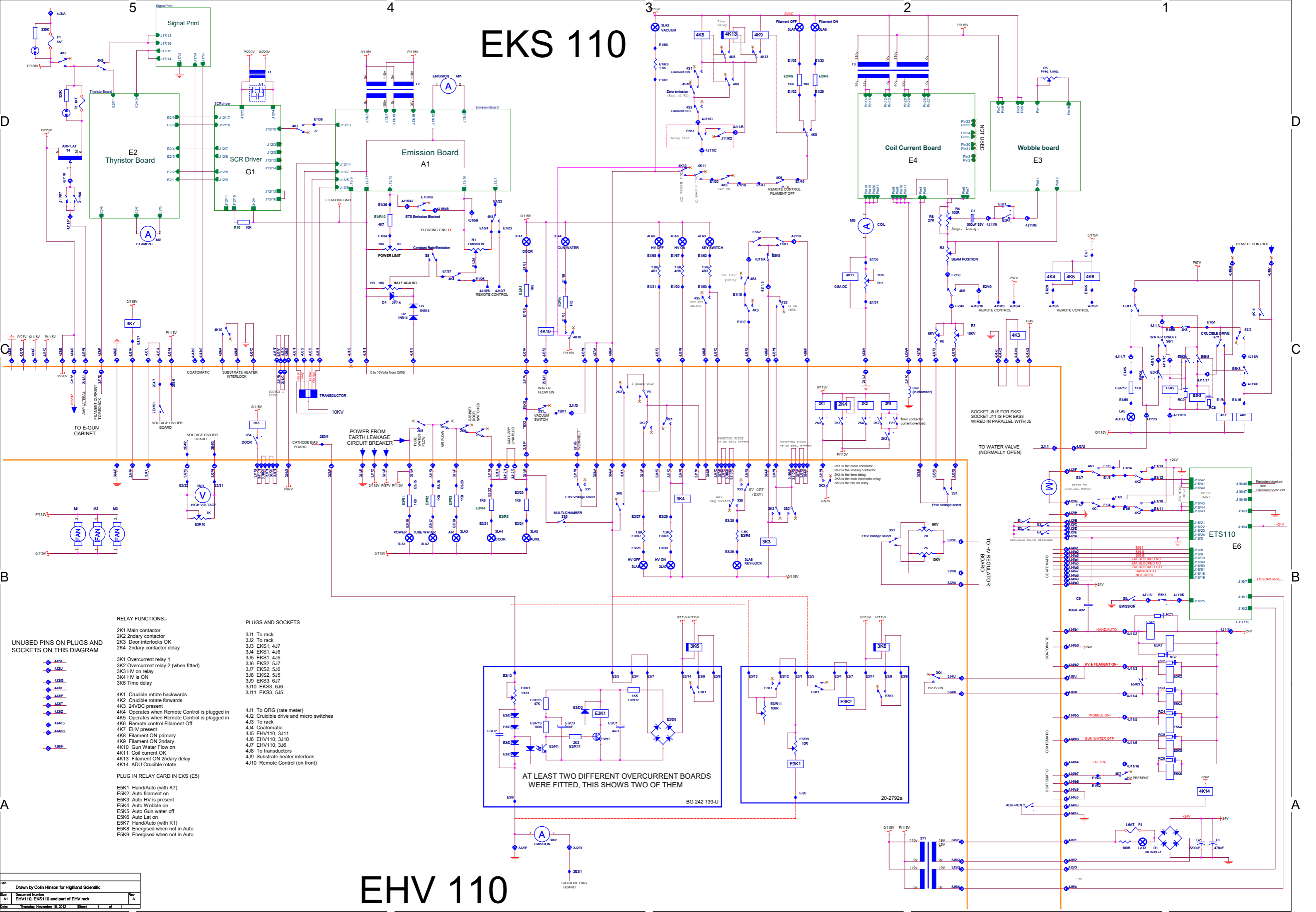
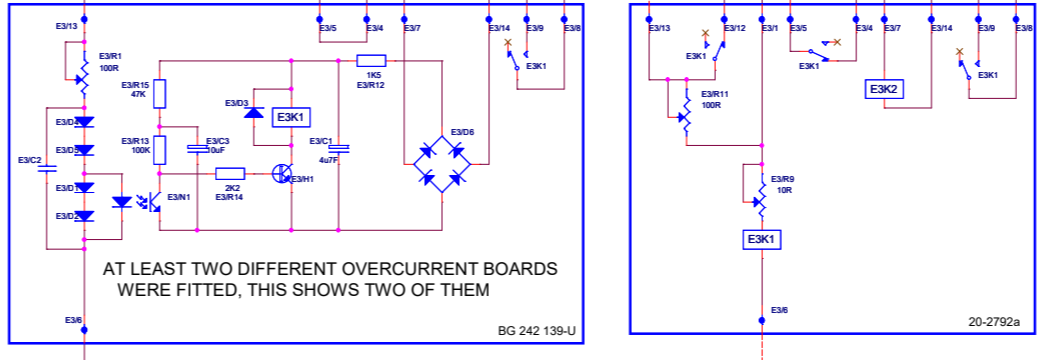


# EKS 110



- RELAY FUNCTIONS:-**
- 2K1 Main contactor
  - 2K2 2ndary contactor
  - 2K3 Door interlocks OK
  - 2K4 2ndary contactor delay
  - 3K1 Overcurrent relay 1
  - 3K2 Overcurrent relay 2 (when fitted)
  - 3K3 HV on relay
  - 3K4 HV is ON
  - 3K6 Time delay
  - 4K1 Crucible rotate backwards
  - 4K2 Crucible rotate forwards
  - 4K3 24VDC present
  - 4K4 Operates when Remote Control is plugged in
  - 4K5 Operates when Remote Control is plugged in
  - 4K6 Remote control Filament Off
  - 4K7 EHV present
  - 4K8 Filament ON primary
  - 4K9 Filament ON 2ndary
  - 4K10 Gun Water Flow on
  - 4K11 Coil current OK
  - 4K13 Filament ON 2ndary delay
  - 4K14 ADU Crucible rotate
- PLUGS AND SOCKETS**
- 3J1 To rack
  - 3J2 To rack
  - 3J3 EKS1, 4J7
  - 3J4 EKS1, 4J6
  - 3J5 EKS1, 4J5
  - 3J6 EKS2, 5J7
  - 3J7 EKS2, 5J6
  - 3J8 EKS2, 5J5
  - 3J9 EKS3, 6J7
  - 3J10 EKS3, 6J6
  - 3J11 EKS3, 5J5
  - 4J1 To ORG (rate meter)
  - 4J2 Crucible drive and micro switches
  - 4J3 To rack
  - 4J4 Coatomatic
  - 4J5 EHV110, 3J11
  - 4J6 EHV110, 3J10
  - 4J7 EHV110, 3J6
  - 4J8 To transducers
  - 4J9 Substrate heater interlock
  - 4J10 Remote Control (on front)
- PLUG IN RELAY CARD IN EKS (E5)**
- E5K1 Hand/Auto (with K7)
  - E5K2 Auto filament on
  - E5K3 Auto HV is present
  - E5K4 Auto Wobble on
  - E5K5 Auto Gun water off
  - E5K6 Auto Lat on
  - E5K7 Hand/Auto (with K1)
  - E5K8 Energised when not in Auto
  - E5K9 Energised when not in Auto

- UNUSED PINS ON PLUGS AND SOCKETS ON THIS DIAGRAM**
- 4.22A
  - 4.22U
  - 4.22G
  - 4.23A
  - 4.23P
  - 4.23L
  - 4.23Z
  - 4.44A
  - 4.44B
  - 4.44C
  - 4.44D
  - 4.44E
  - 4.44F
  - 4.44G
  - 4.44H
  - 4.44I
  - 4.44J
  - 4.44K
  - 4.44L
  - 4.44M
  - 4.44N
  - 4.44O
  - 4.44P
  - 4.44Q
  - 4.44R
  - 4.44S
  - 4.44T
  - 4.44U
  - 4.44V
  - 4.44W
  - 4.44X
  - 4.44Y
  - 4.44Z



# EHV 110

Drawn by	Colin Hinson for Highland Scientific
Document Number	EHV110, EKS110 and part of EHV rack
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