

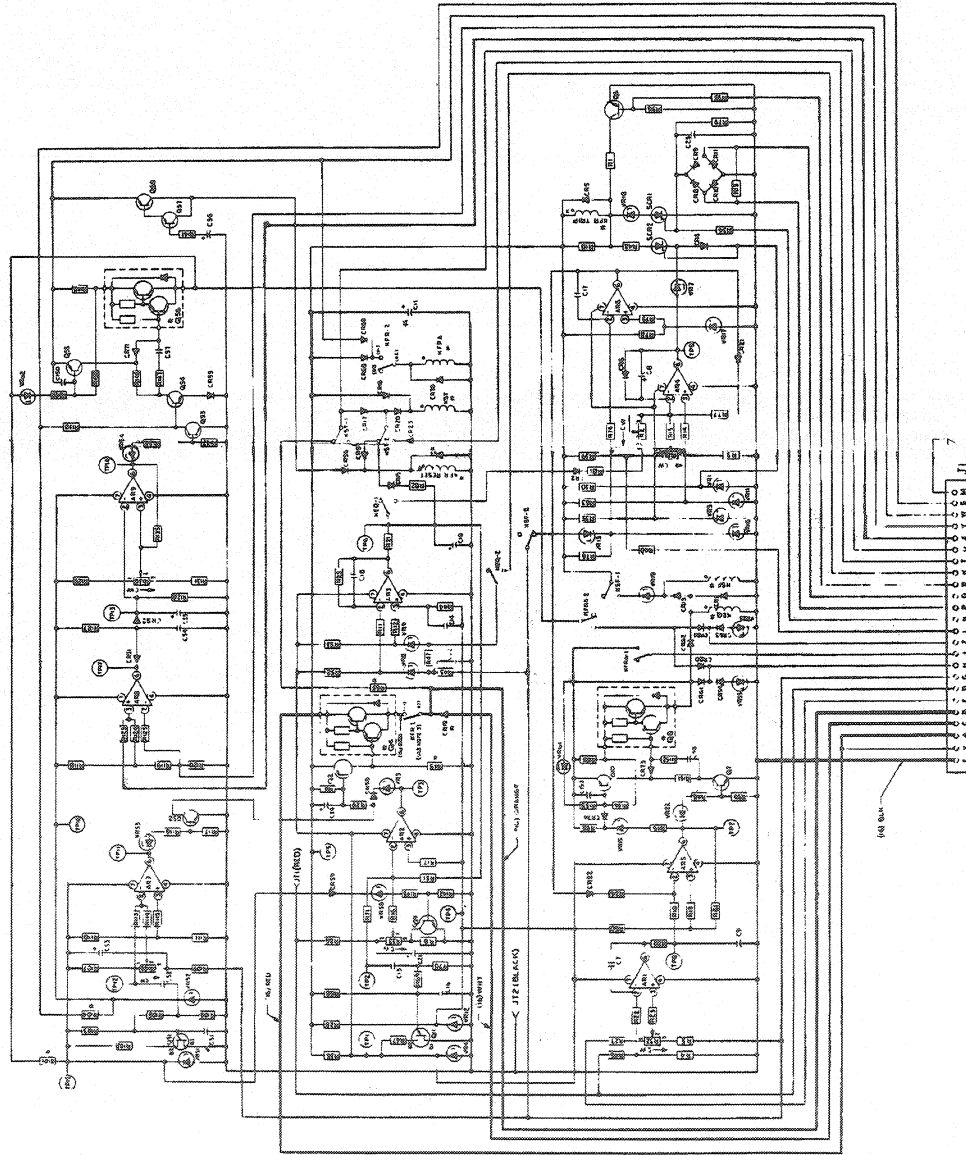
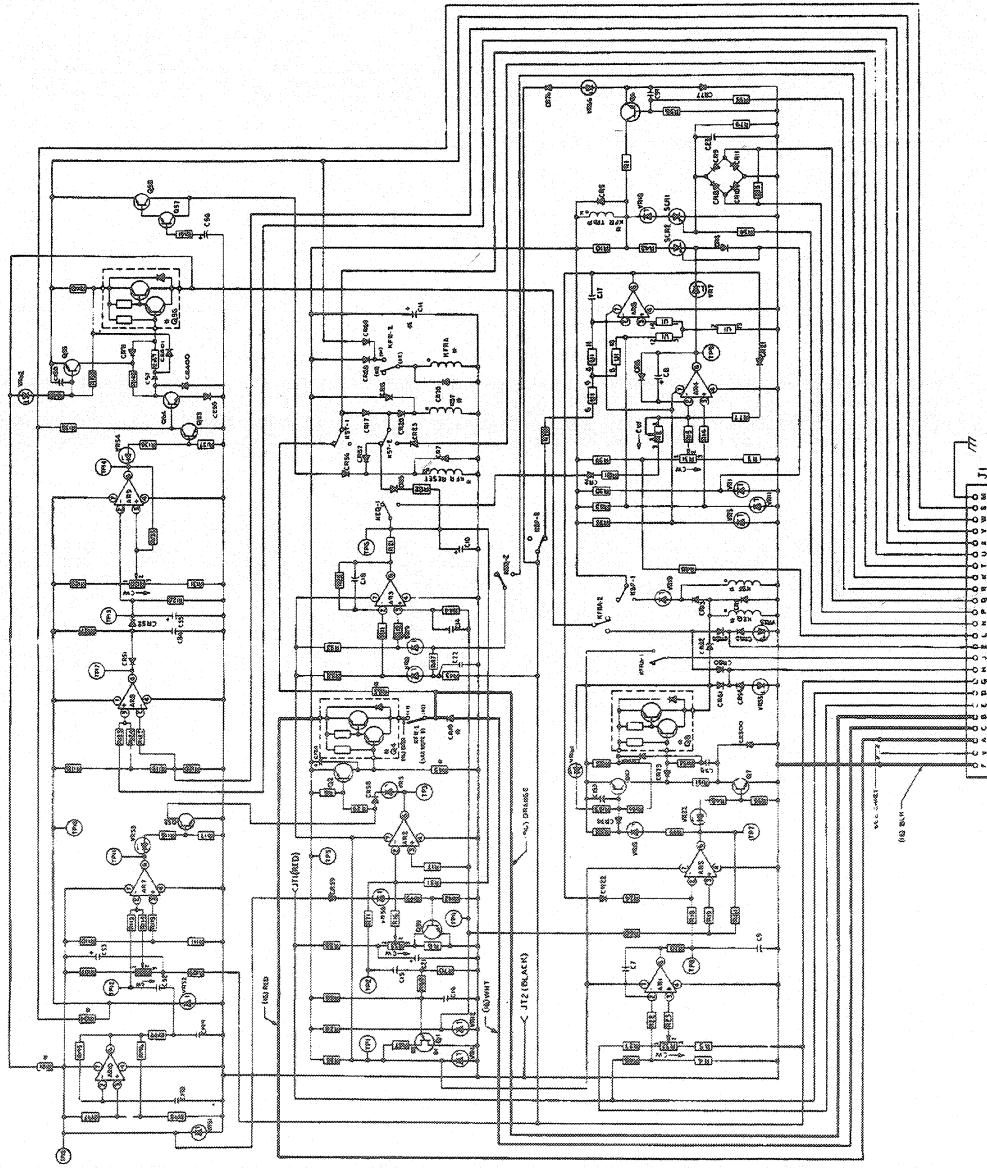


Figure 2001 - GCU Overall Schematic Diagram, Models 51539-006B/-006D Configuration A

TRW Aeronautical Systems, Lucas Aerospace
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Model
 51539-006B
 51539-006D
 51539-006E

Wire at Connector J1 Pin V
 Common with J1 Pin A (+28 VDC)
 Common with J1 Pin A (+28 VDC)
 Common with J1 Pin F (Ground)

Figure 2002 - GCU Overall Schematic Diagram, Models 51539-006B, -006D, -006E,
 Configuration B

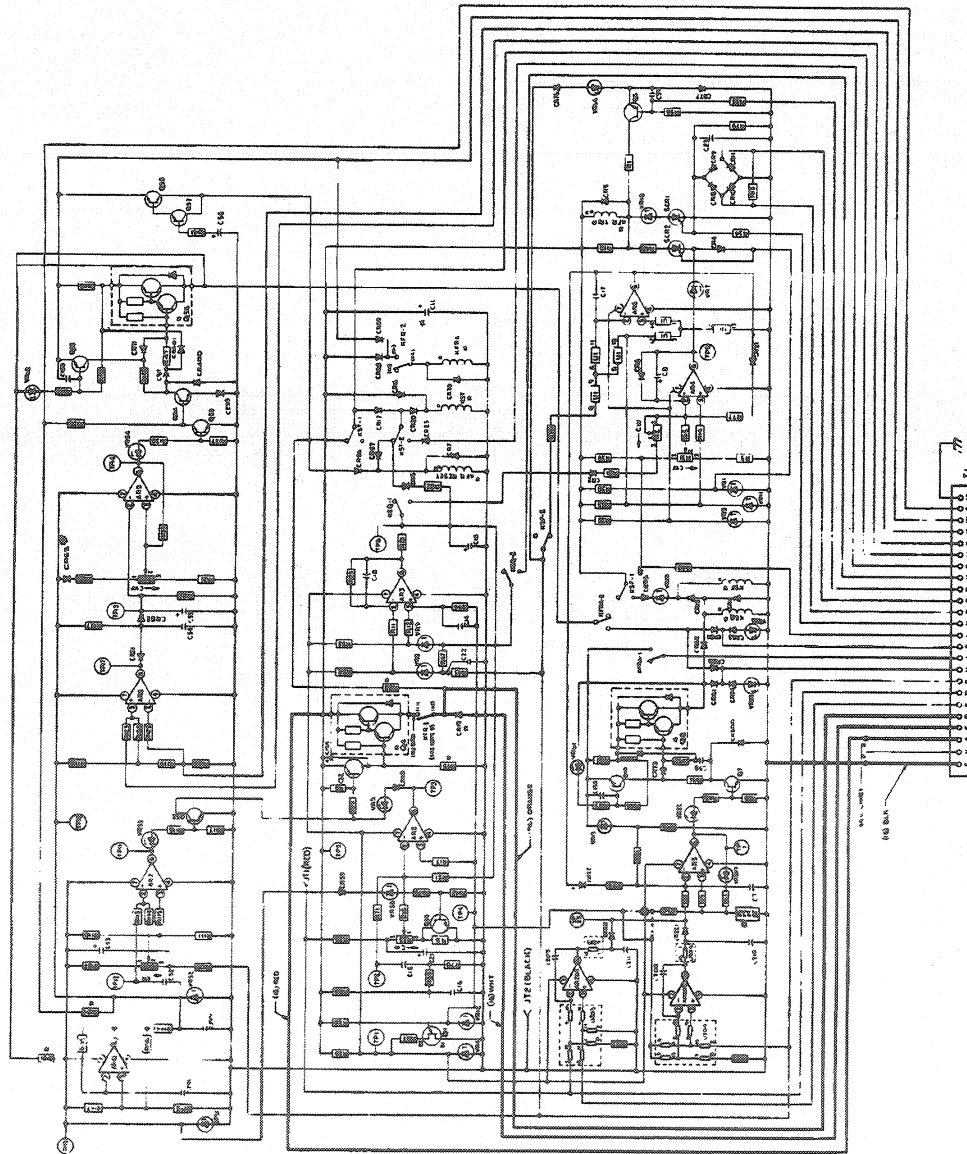
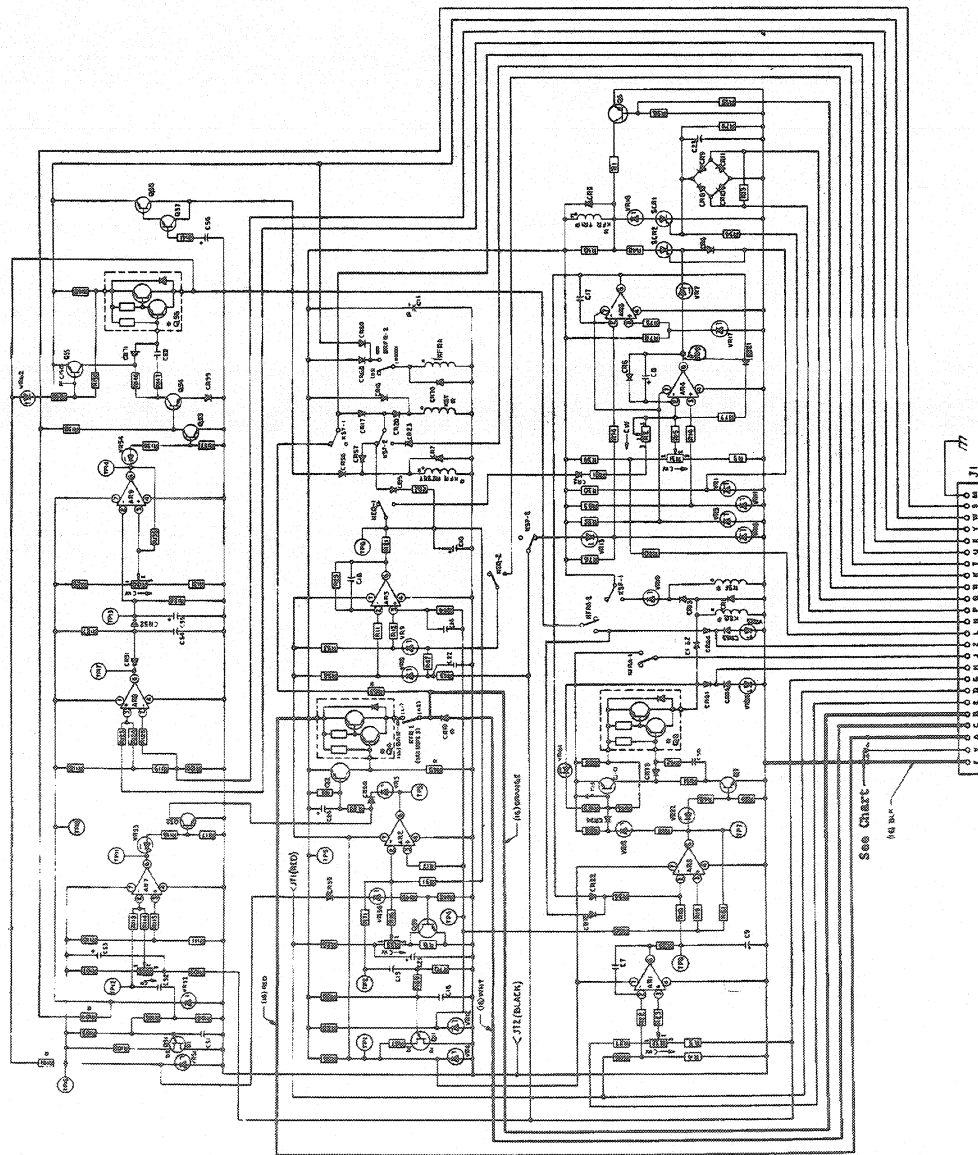


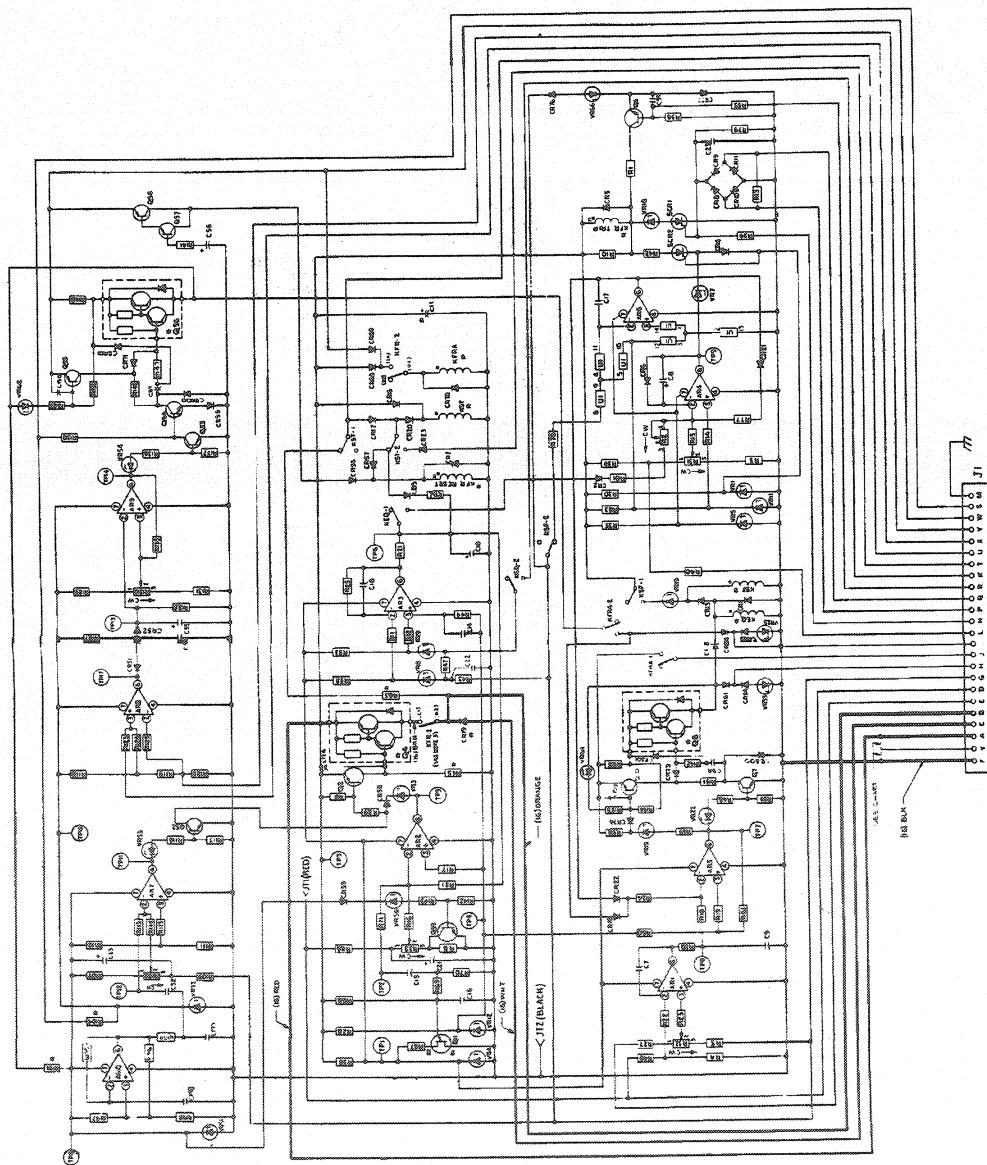
Figure 2003 - GCU Overall Schematic Diagram, Models 51539-006B, -006C,
 Configuration C

- | | |
|--------------|-----------------------------------|
| Model | Wire at Connector J1 Pin V |
| 51539-006B | Common with J1 Pin A (+28 VDC) |
| 51539-006E | Common with J1 Pin F (Ground) |
1. Number in brackets () denotes size of wire, AWG.
 2. All other wires are AWG 22 or 24.
 3. See Figure 7003A for Wiring Diagram.
 4. KFR-1 contact represents 3 contacts connected in series.
 5. * Indicates chassis mounted components.
 6. # Indicates components not found on earlier models.
 7. Dashed circuitry exists on models without R223 only.
 8. ° Represents connection made on models with R223 only.



Model Wire at Connector J1 Pin V
 51539-006C Common with J1 Pin A (+28 VDC)
 51539-006M Common with J1 Pin F (Ground)

Figure 2004 - GCU Overall Schematic Diagram, Models 51539-006C, -006M,
 Configuration A



Model 51539-006C
 51539-006M

Wire at Connector J1 Pin V
 Common with J1 Pin A (+28 VDC)
 Common with J1 Pin F (Ground)

Figure 2005 - GCU Overall Schematic Diagram, Models 51539-006C, -006M, Configuration B

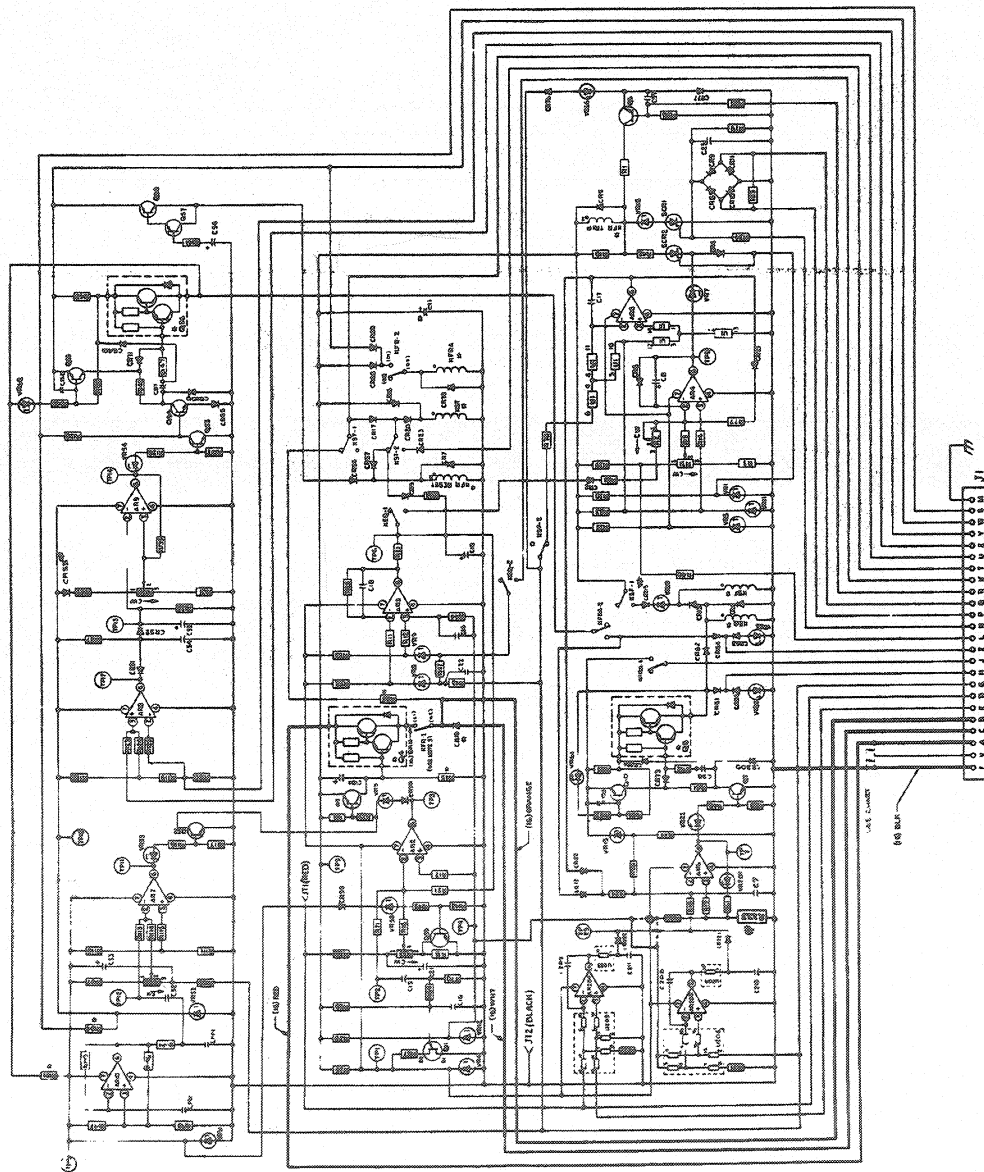
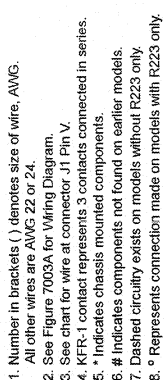


Figure 2006 - GCU Overall Schematic Diagram, Models 51539-006C, -006M, Configuration C

- Model** **Wire at Connector J1 Pin V**
- 51539-006C Common with J1 Pin A (+28 VDC)
- 51539-006M Common with J1 Pin F (Ground)
1. Number in brackets () denotes size of wire, AWG.
 2. All other wires are AWG 22 or 24.
 3. See Figure 7003A for Wiring Diagram.
 4. KFR-1 contact represents 3 contacts connected in series.
 5. * Indicates chassis mounted components.
 6. # Indicates components not found on earlier models.
 7. Dashed circuitry exists on models without R223 only.
 8. ° Represents connection made on models with R223 only.



**Schematic Diagram
Configuration C**

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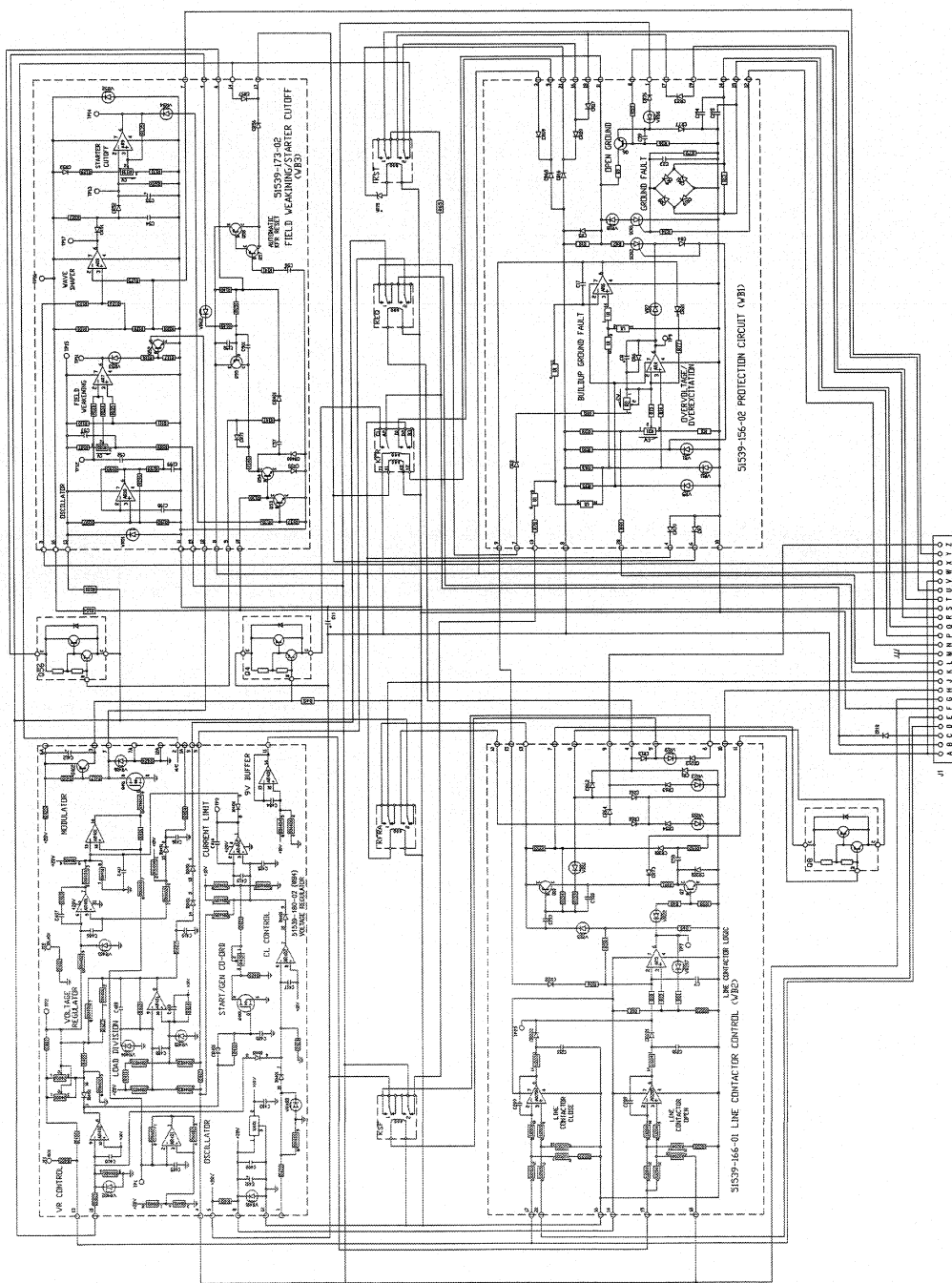


Figure 2009 - GCU Overall Schematic, Model 51539-006B after MOD B

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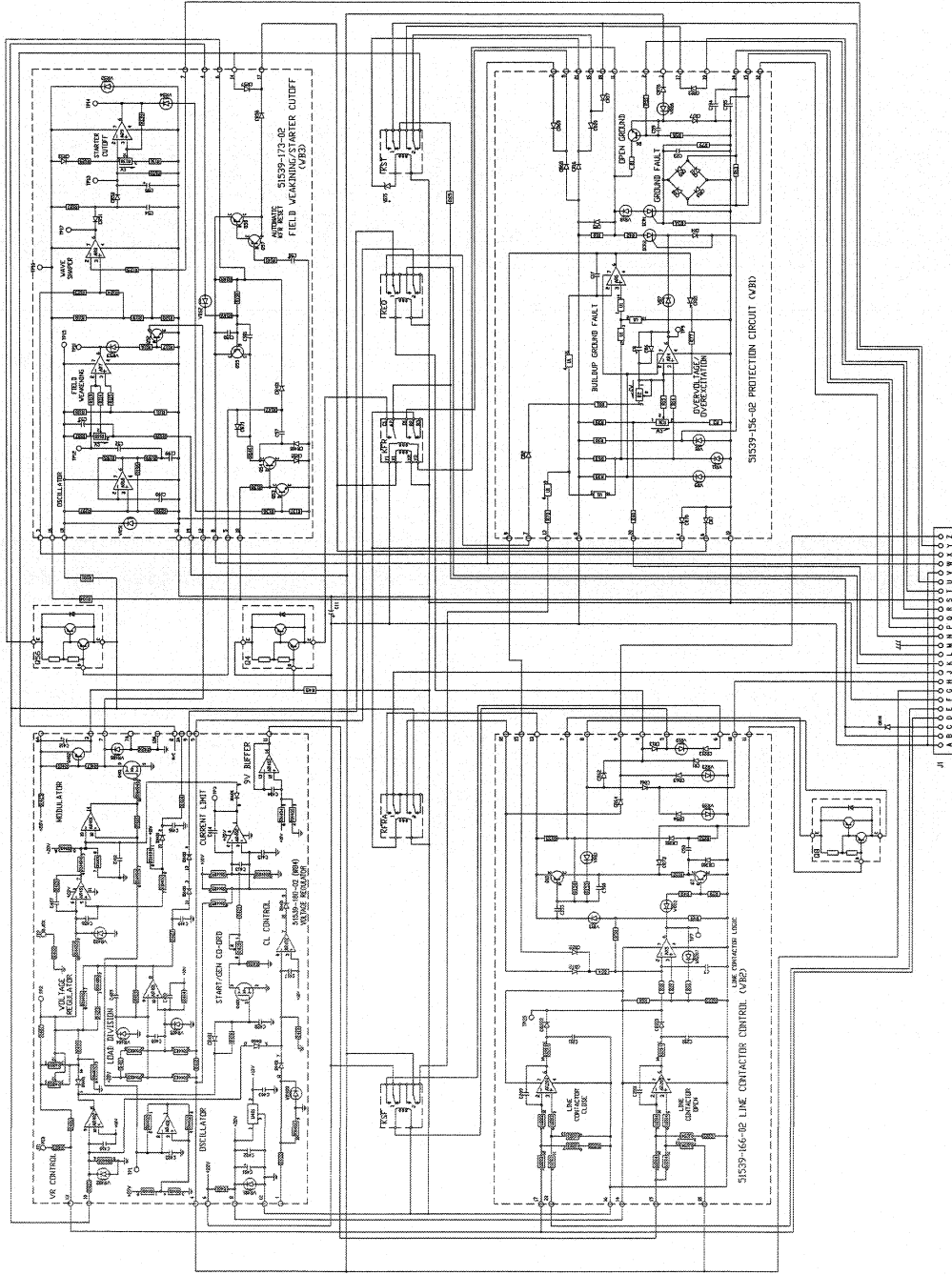


Figure 2010 - GCU Overall Schematic, Model 51539-006C after MOD B

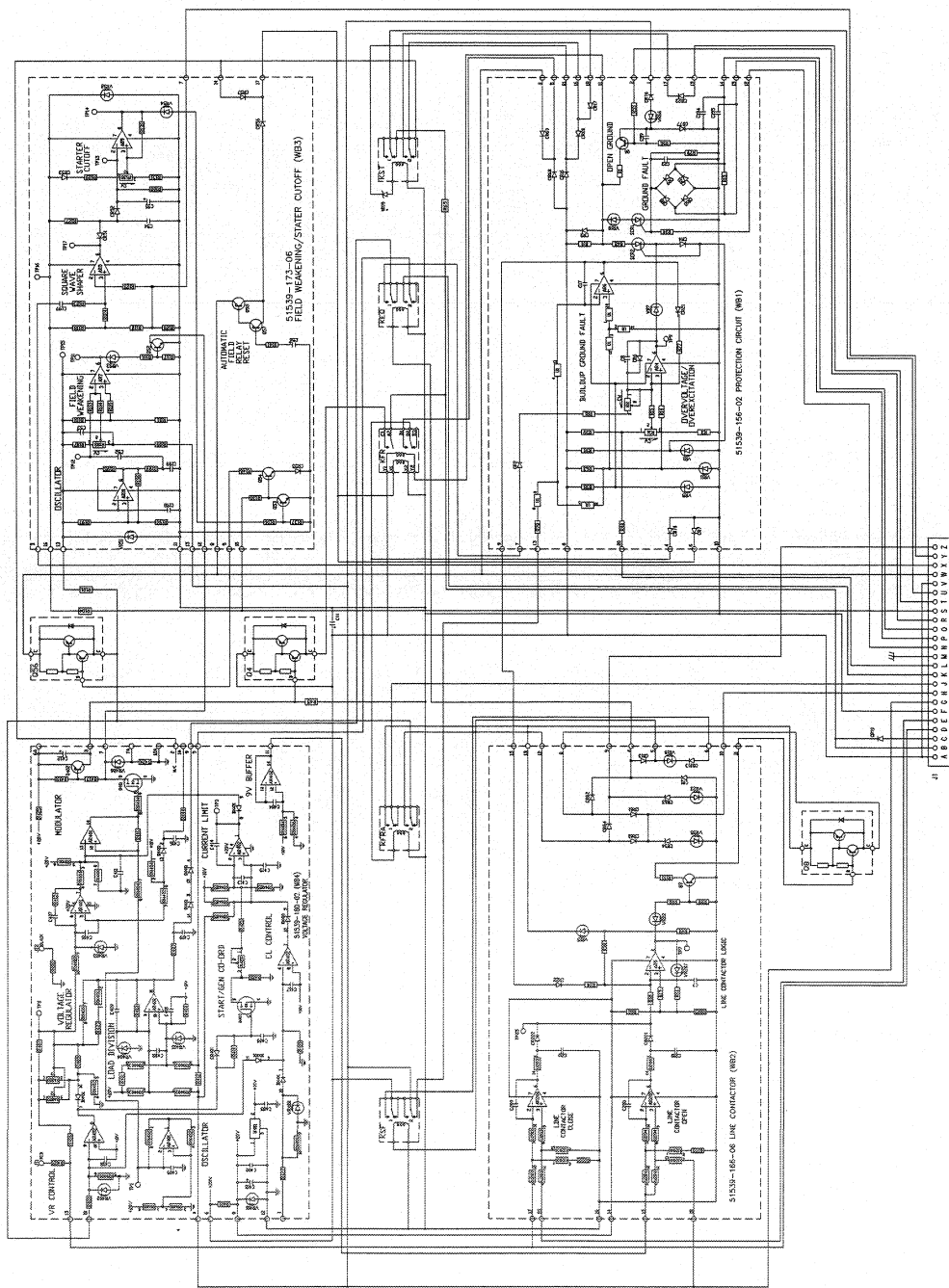


Figure 1111 - GCU Overall Schematic Diagram, Models 51539-006D, -006F, after MOD C

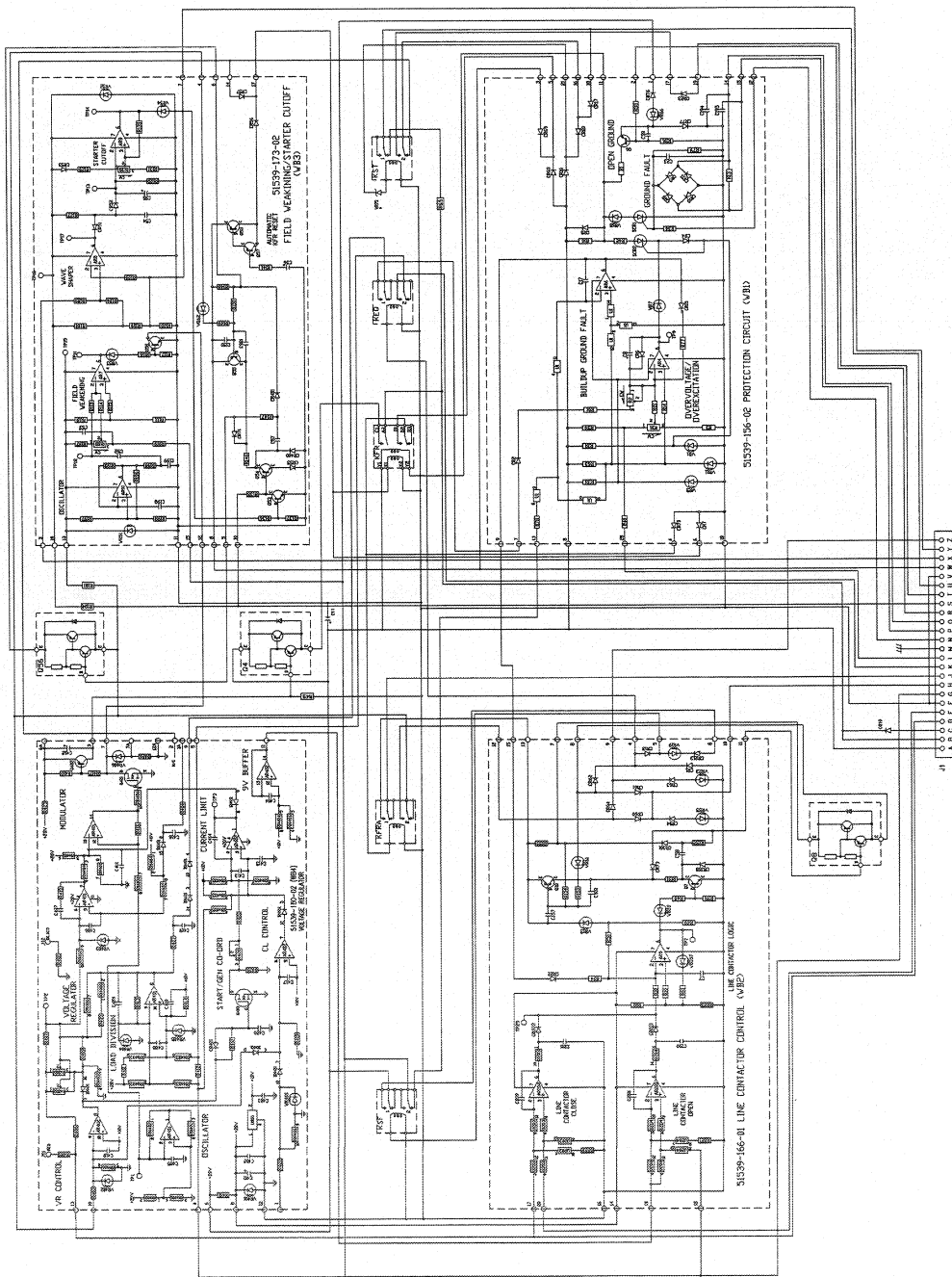


Figure 2012 - GCU Overall Schematic Diagram, Model 51539-006E after MOD B

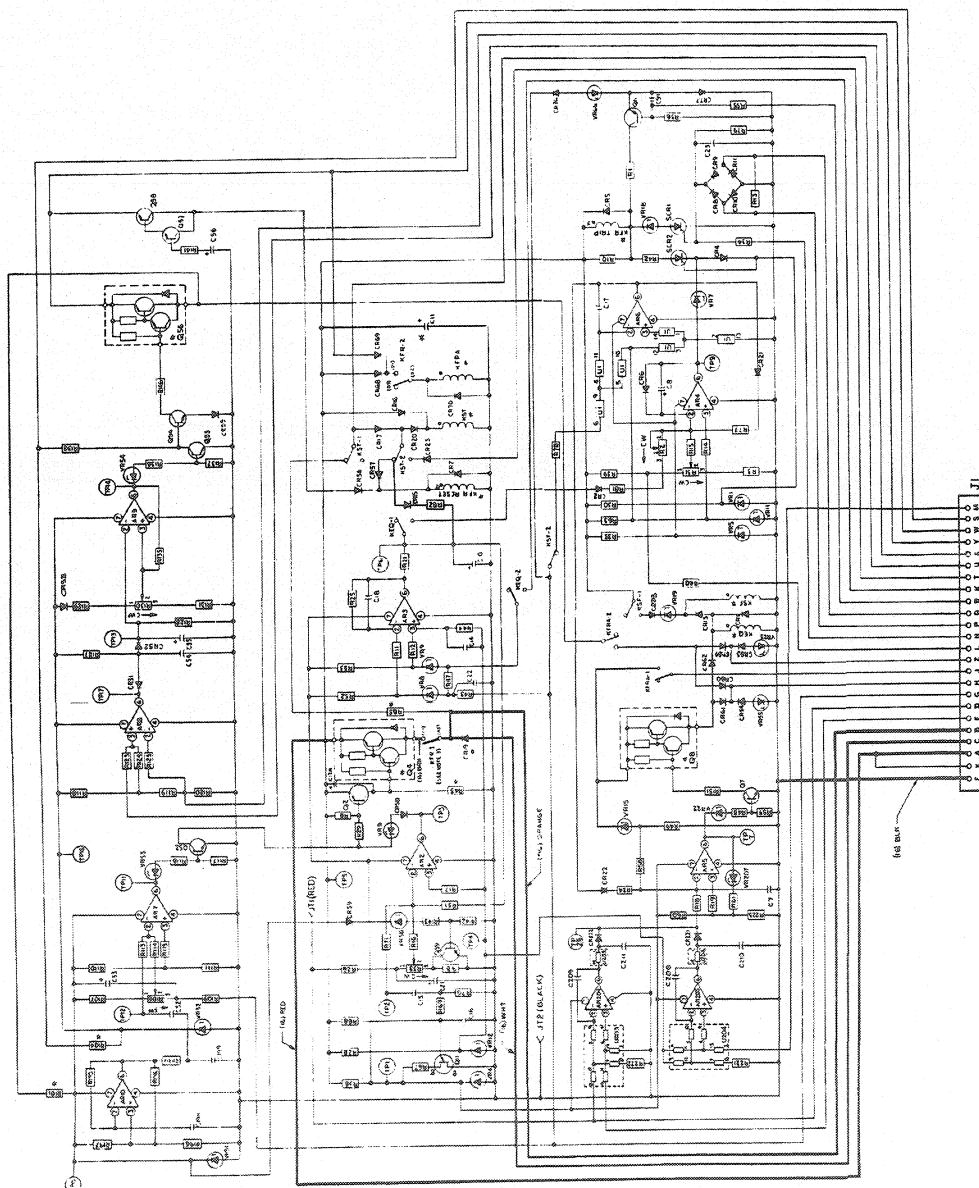


Figure 1013 - GCU Overall Schematic Diagram. Model 51539-006J, before MOD A

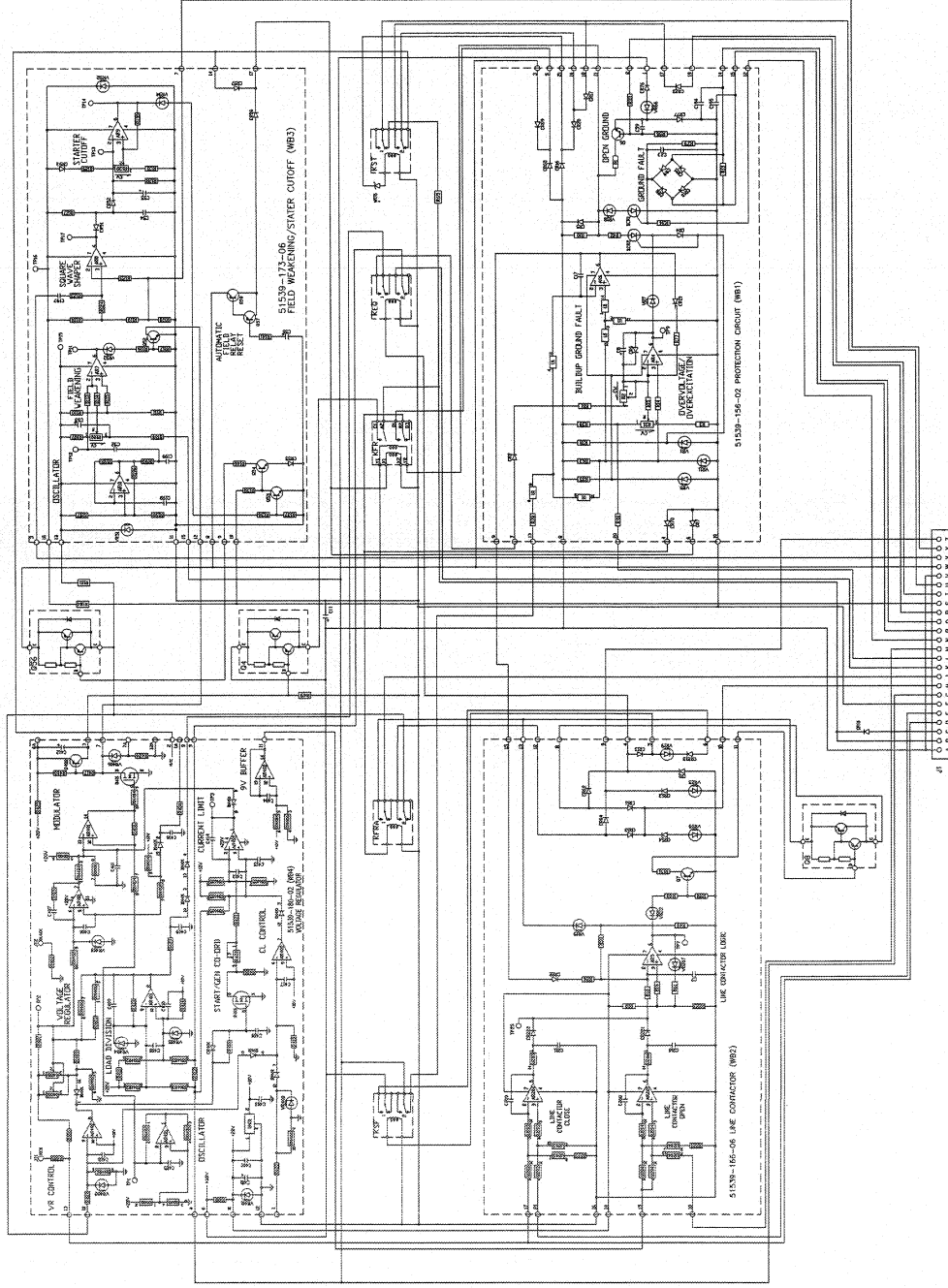


Figure 2014 - GCU Overall Schematic, Model 51539-006J, after MOD A

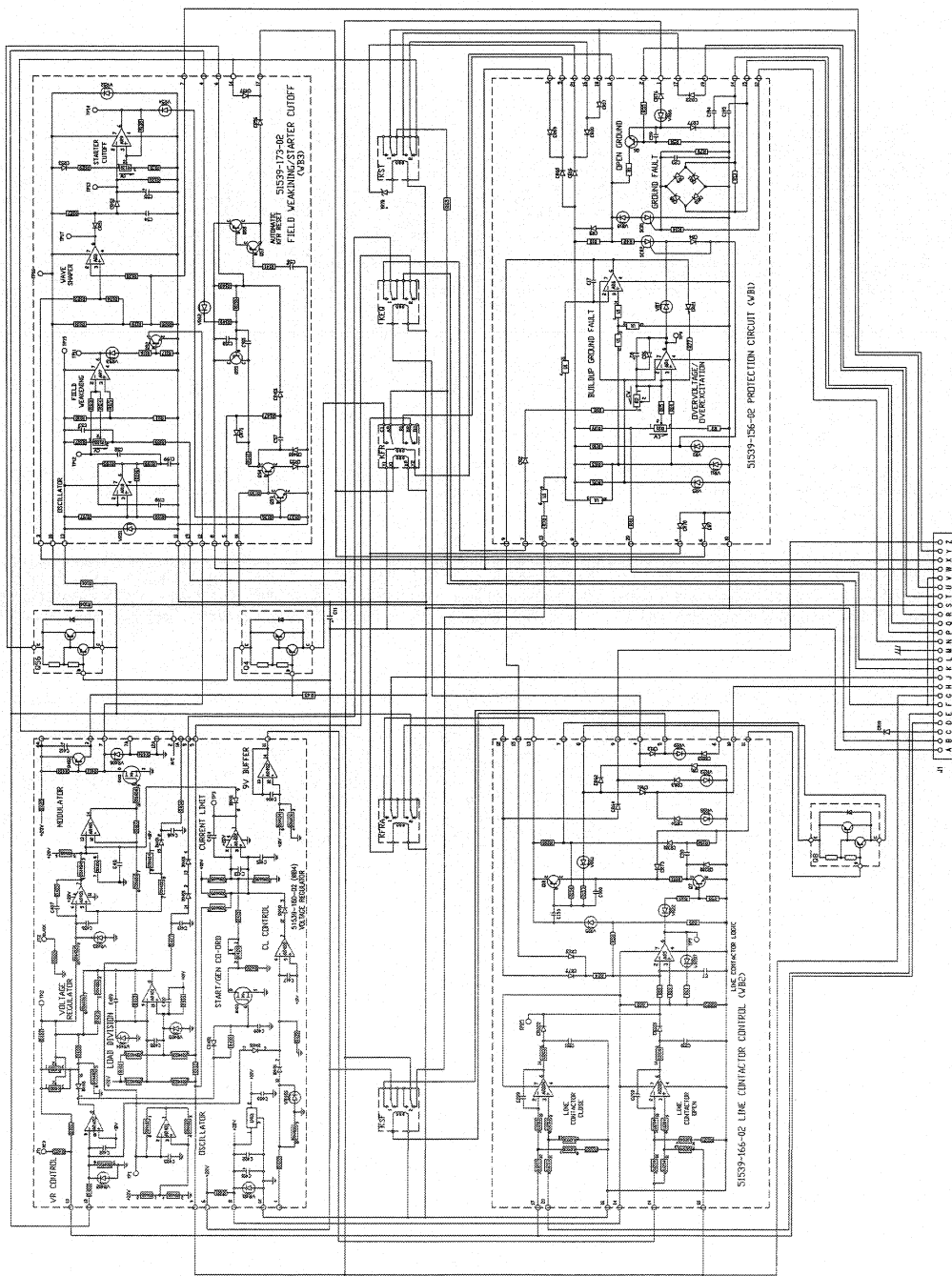
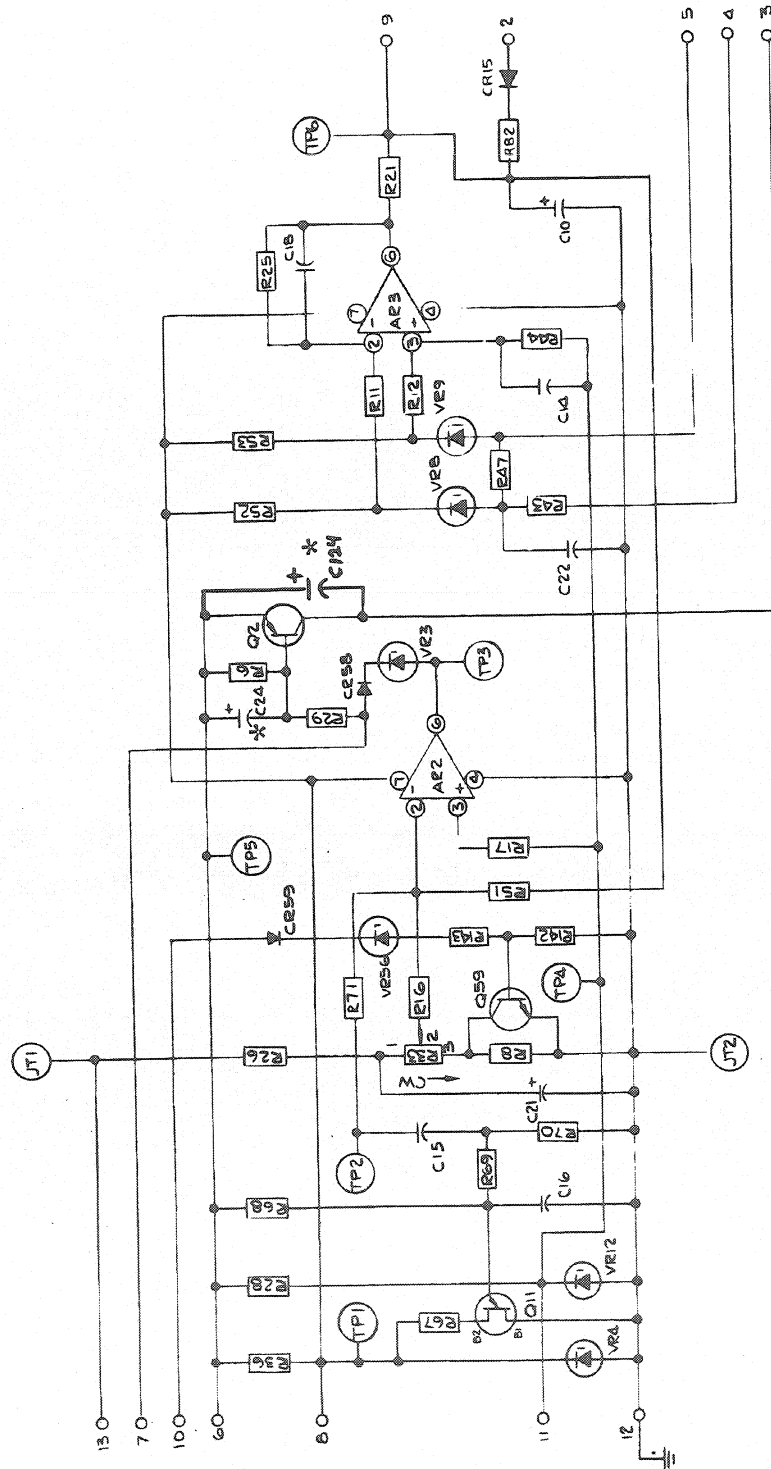


Figure 1015 - GCU Overall Schematic Diagram, Model 51539-006M, after MOD B



* Capacitor C24 is installed on configuration A and capacitor C124 is installed on configuration B and later.

Figure 2016 - Schematic Diagram, PWB4 (51539-380, -390)

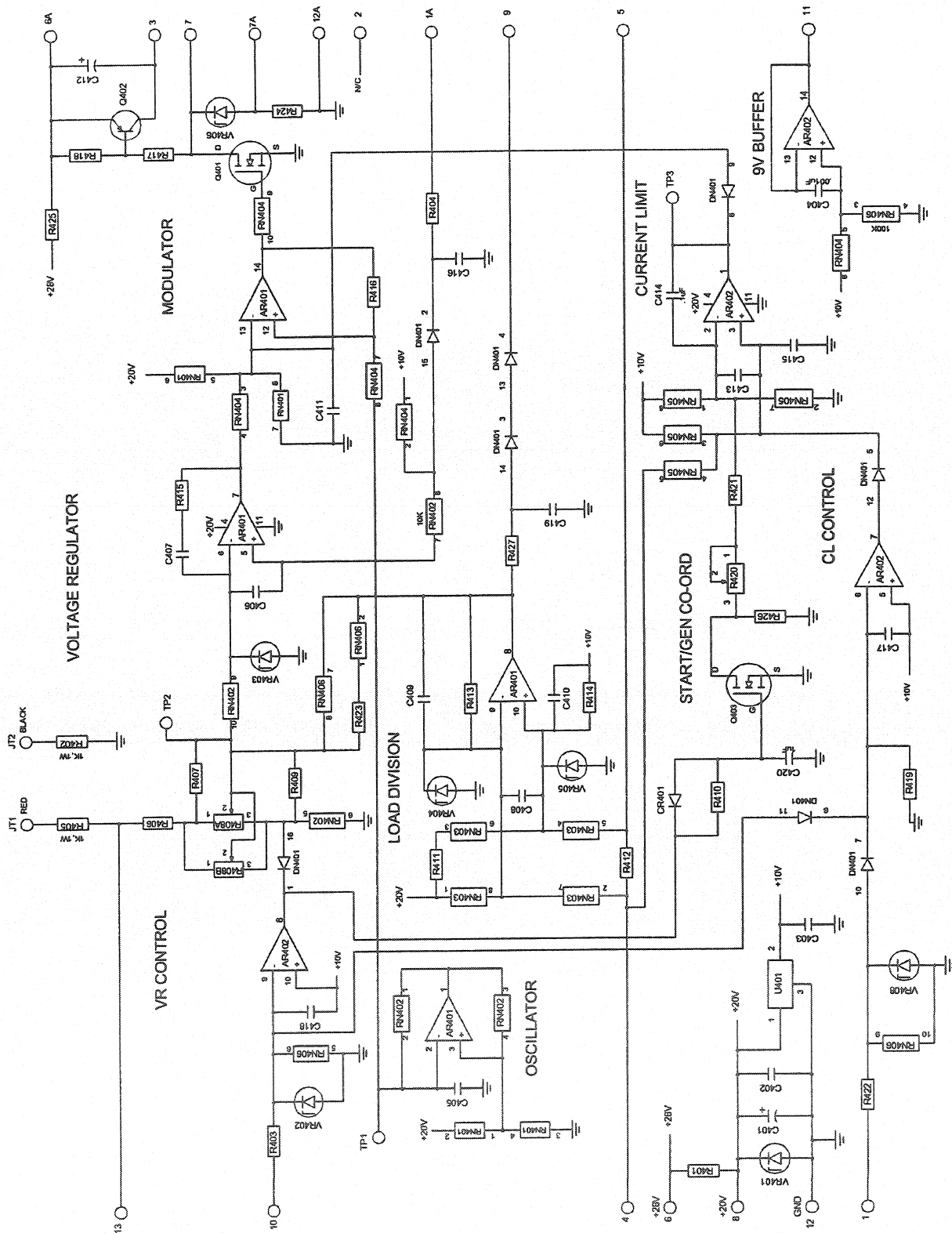


Figure 2017 - Schematic Diagram, PWB4 (51539-481, -485)

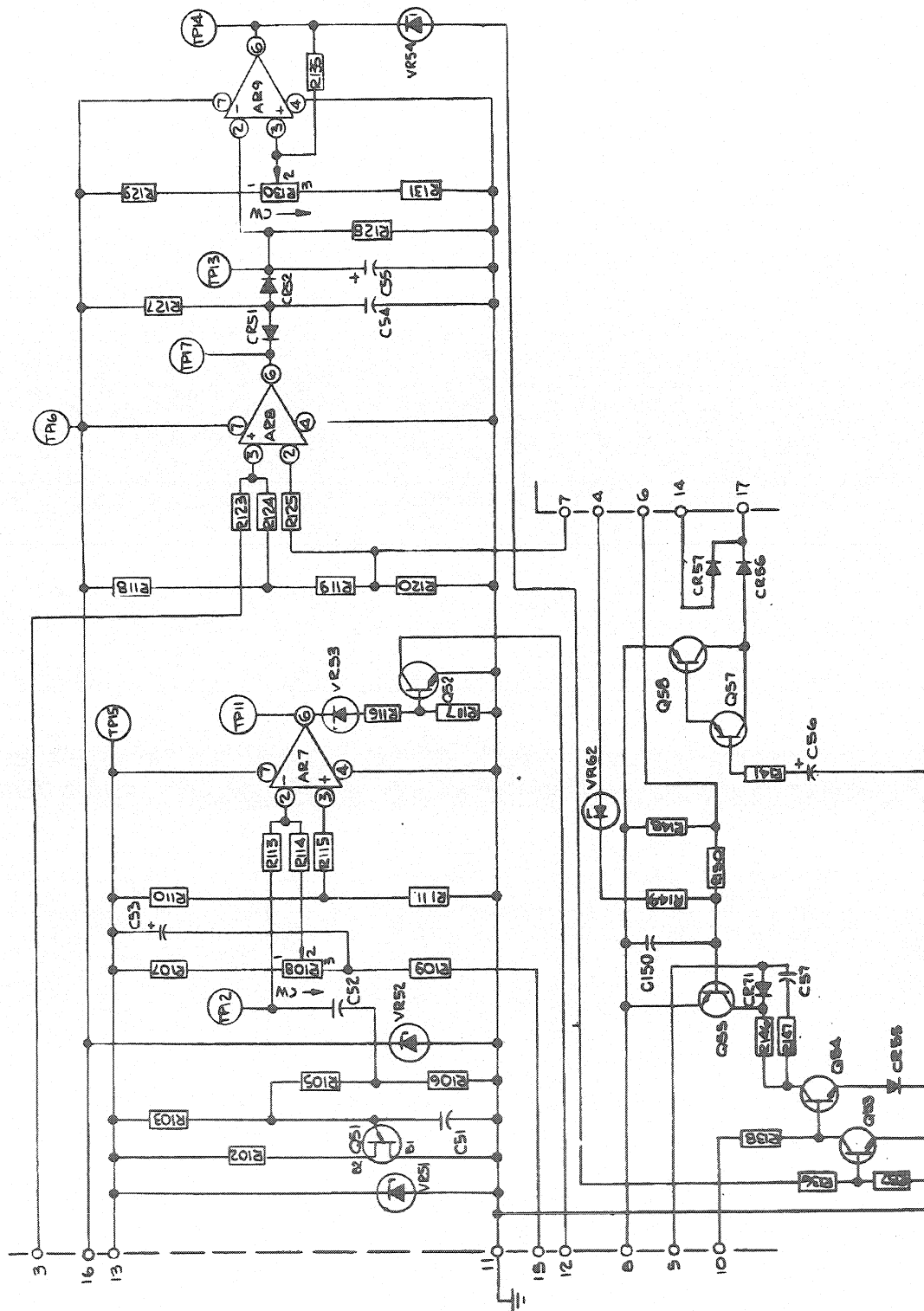


Figure 2018 - Schematic Diagram, PWB3 (51539-360 thru Rev. F)

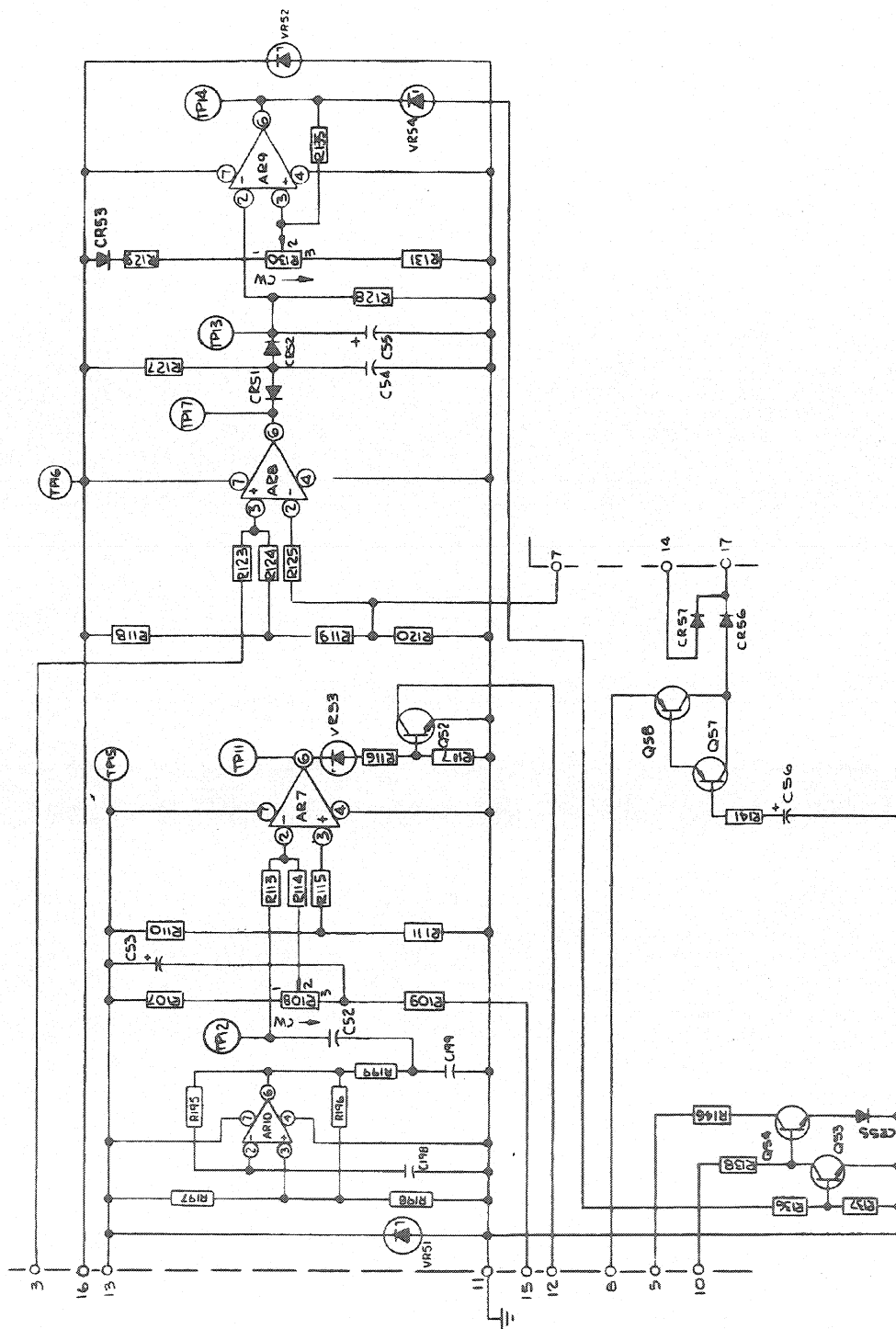


Figure 2019 - Schematic Diagram, PWB3 (51539-360 Rev. G thru latest)

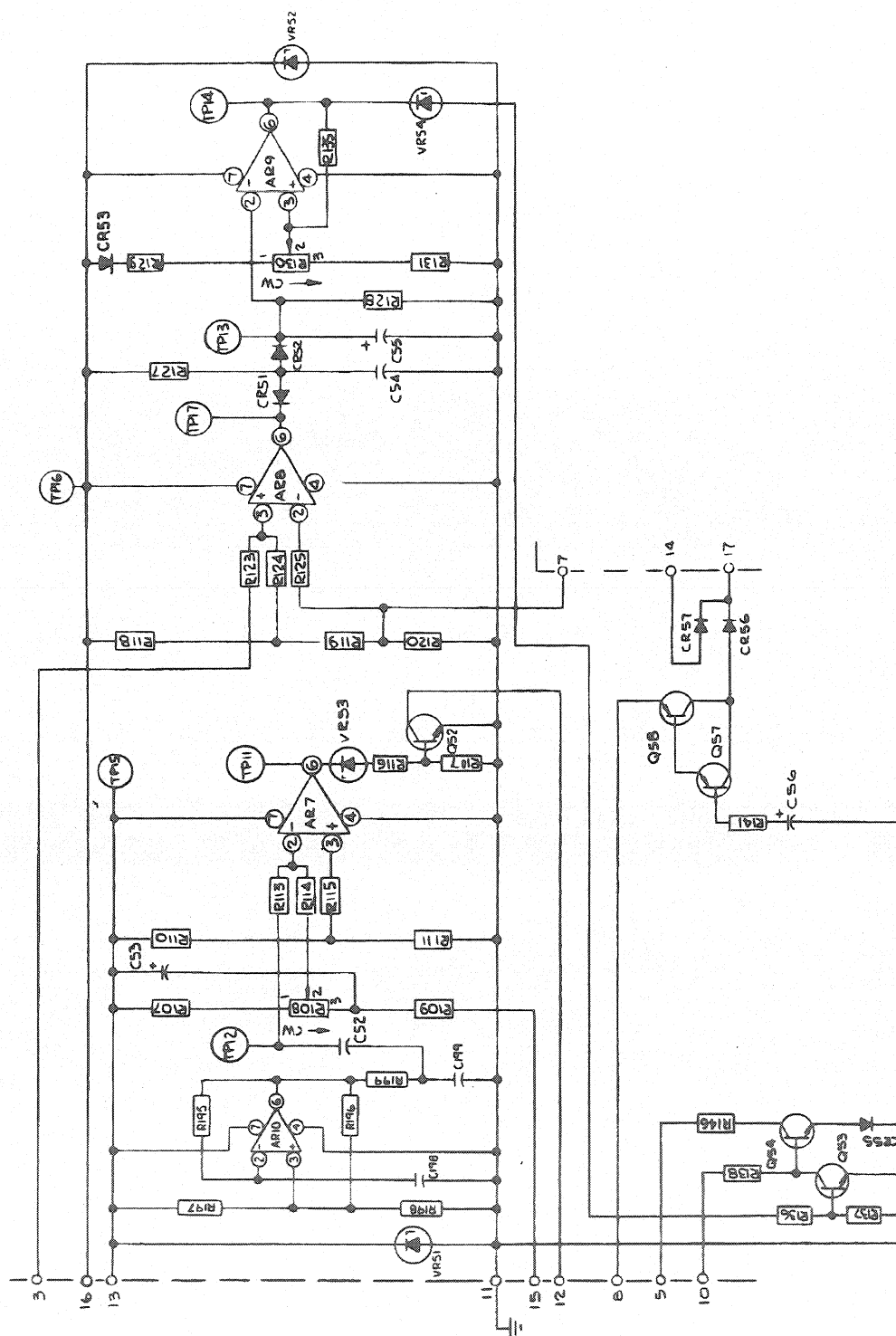
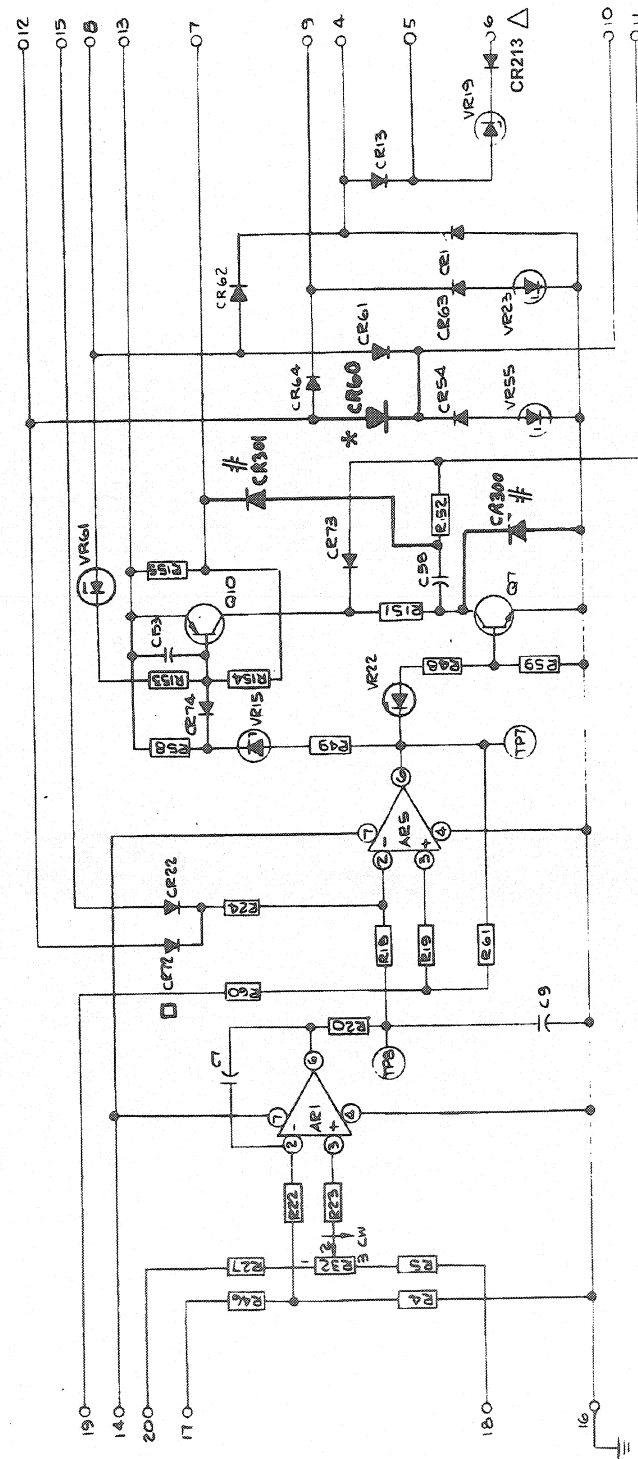
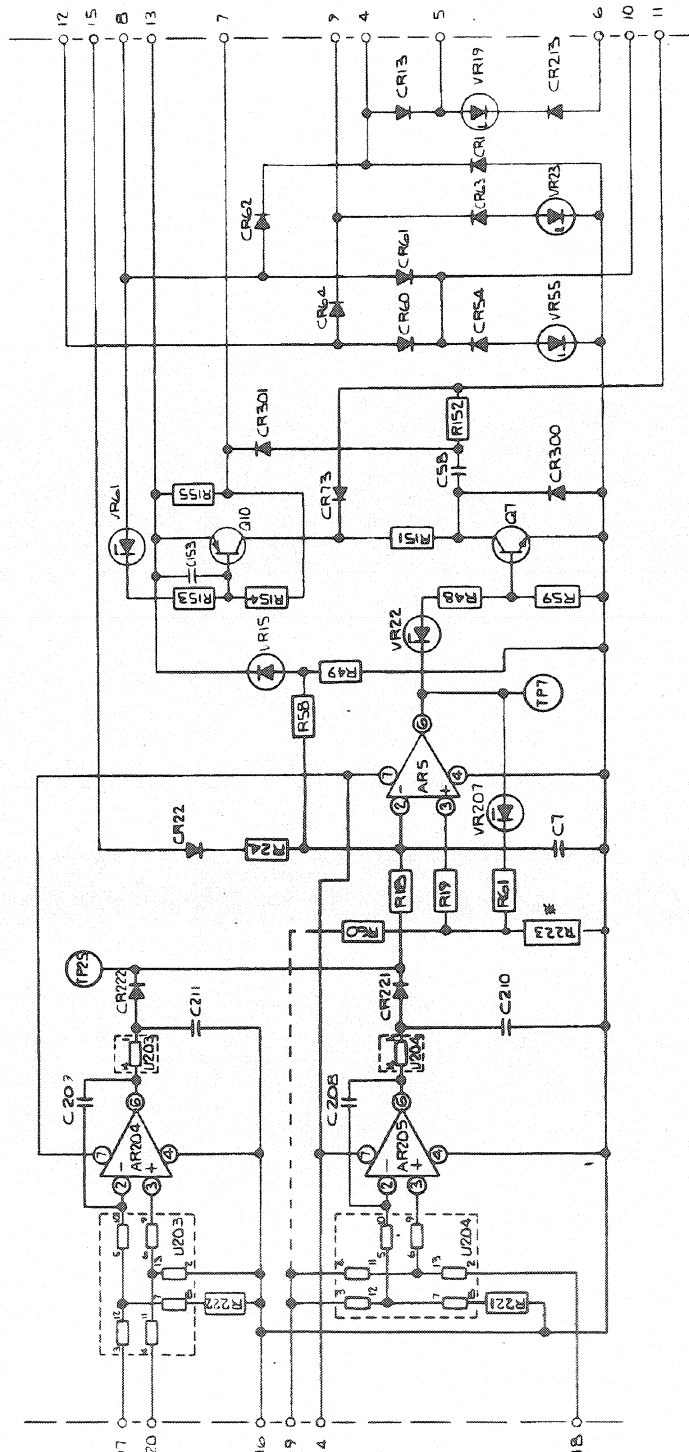


Figure 2020 - Schematic Diagram, PWB3 (51539-364, -364A)



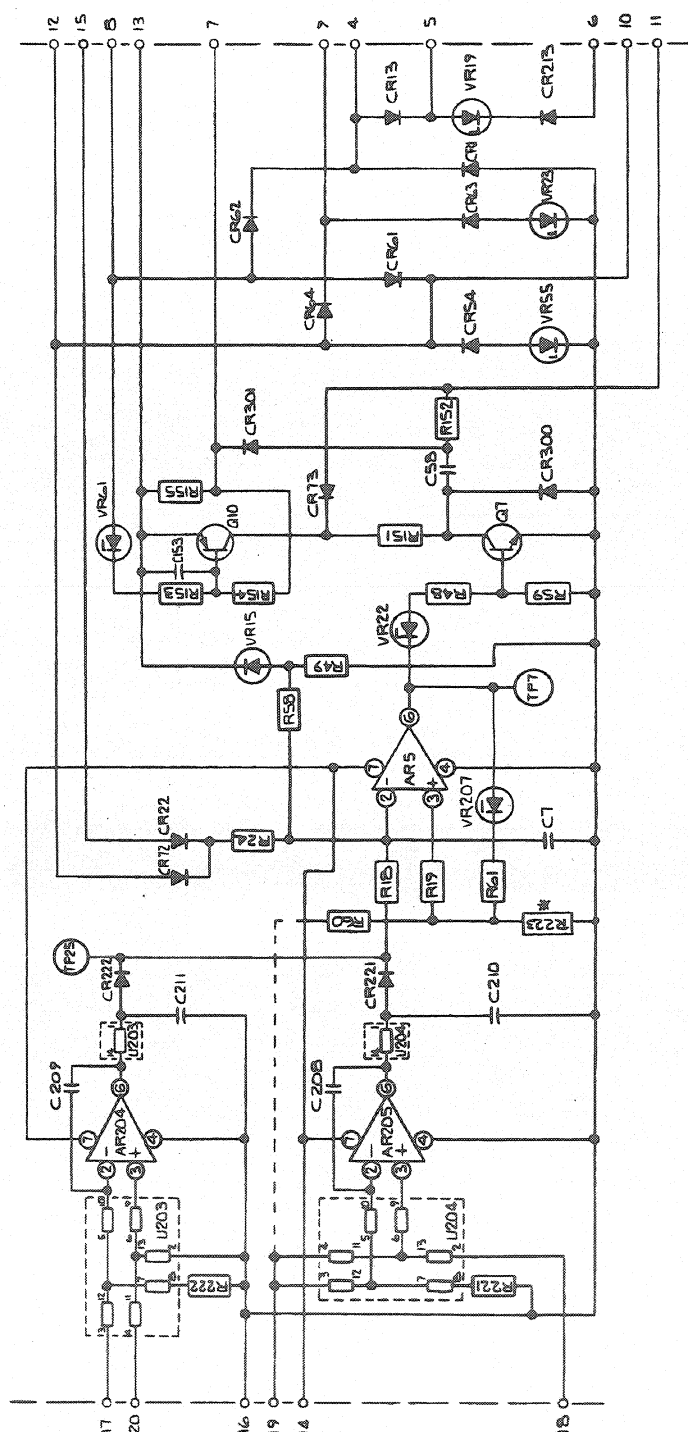
- Rectifier CR72 used on PWB 51539-351 only.
- * Rectifier CR60 used on PWB 51539-350 only.
- # Rectifiers CR300 and CR301 are installed on later configurations of the PWB assembly.
- △ Diode CR213 added at Rev. K.

Figure 2021 - Schematic Diagram, PWB2 (51539-350, -351 thru Rev. K)



* Resistor R223 used starting at Rev. M.
 Resistor R60 connected to terminal 19 at Rev. L.
 Resistor R60 connected to terminal 14 starting at Rev. M.

Figure 2022 - Schematic Diagram, PWB2 (51539-350 Rev. L thru latest)

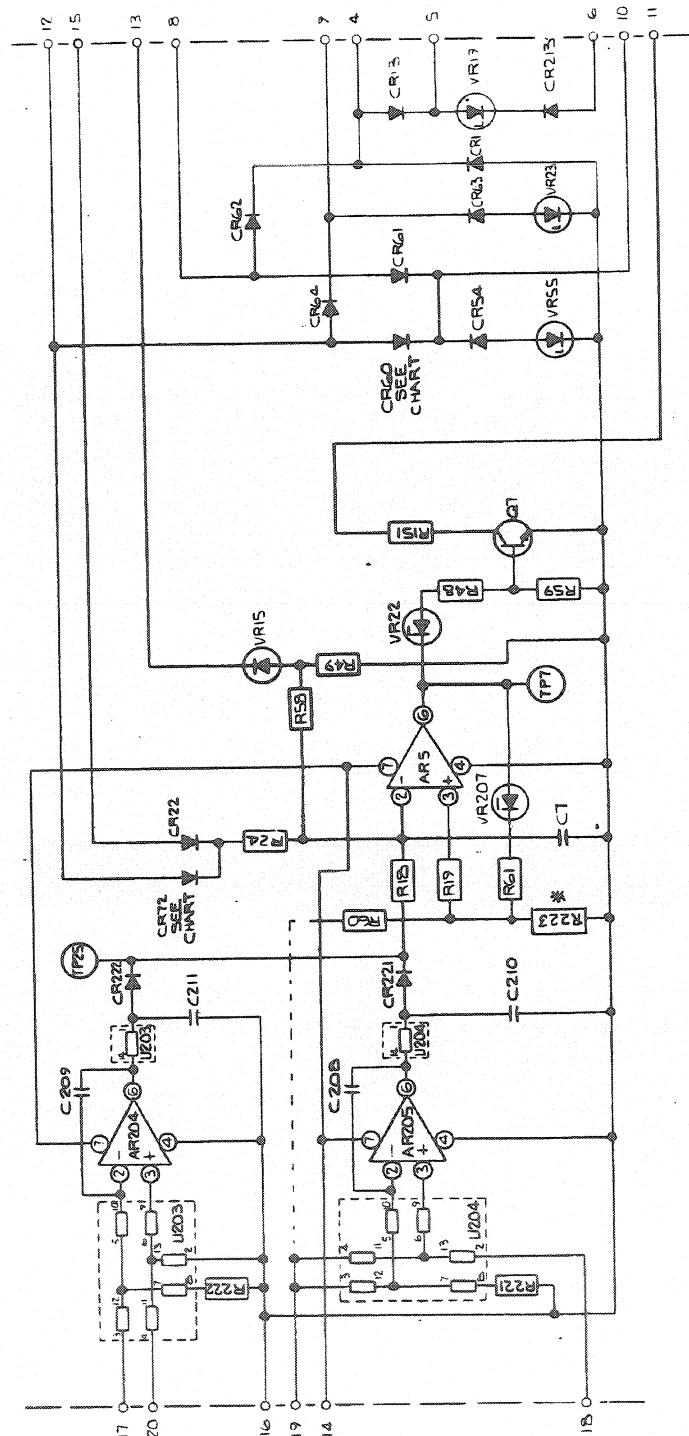


* Resistor R223 installed starting at Rev. M.

Resistor R60 connected to terminal 19 at Rev. L.

Resistor R60 connected to terminal 14 starting at Rev. M.

Figure 2023 - Schematic Diagram, PWB2 (51539-351, Rev. L thru latest)



PWB Part Number	CR60	CR72
51539-353	REQUIRED	OMIT
51539-354	OMIT	REQUIRED

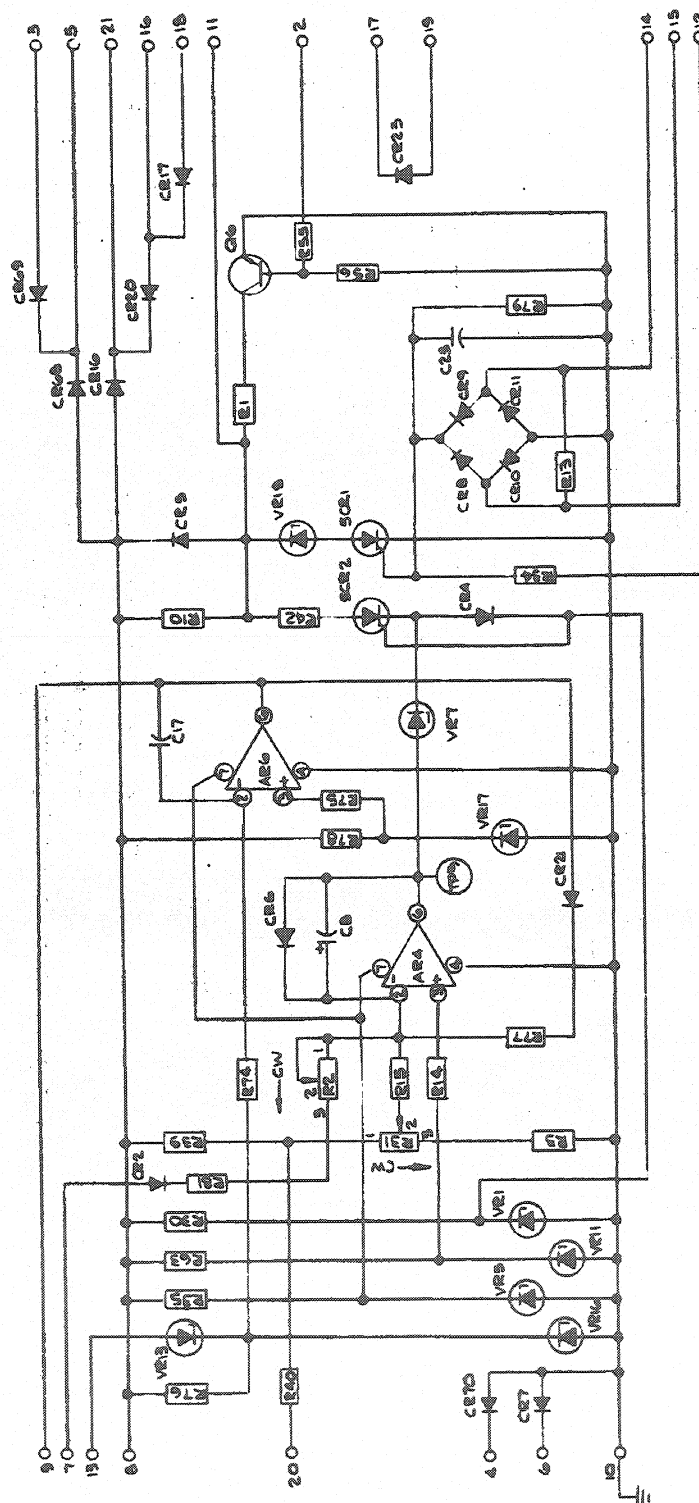


Figure 2025 - Schematic Diagram, PWB1 (51539-330, -331, -332 thru Rev. E)

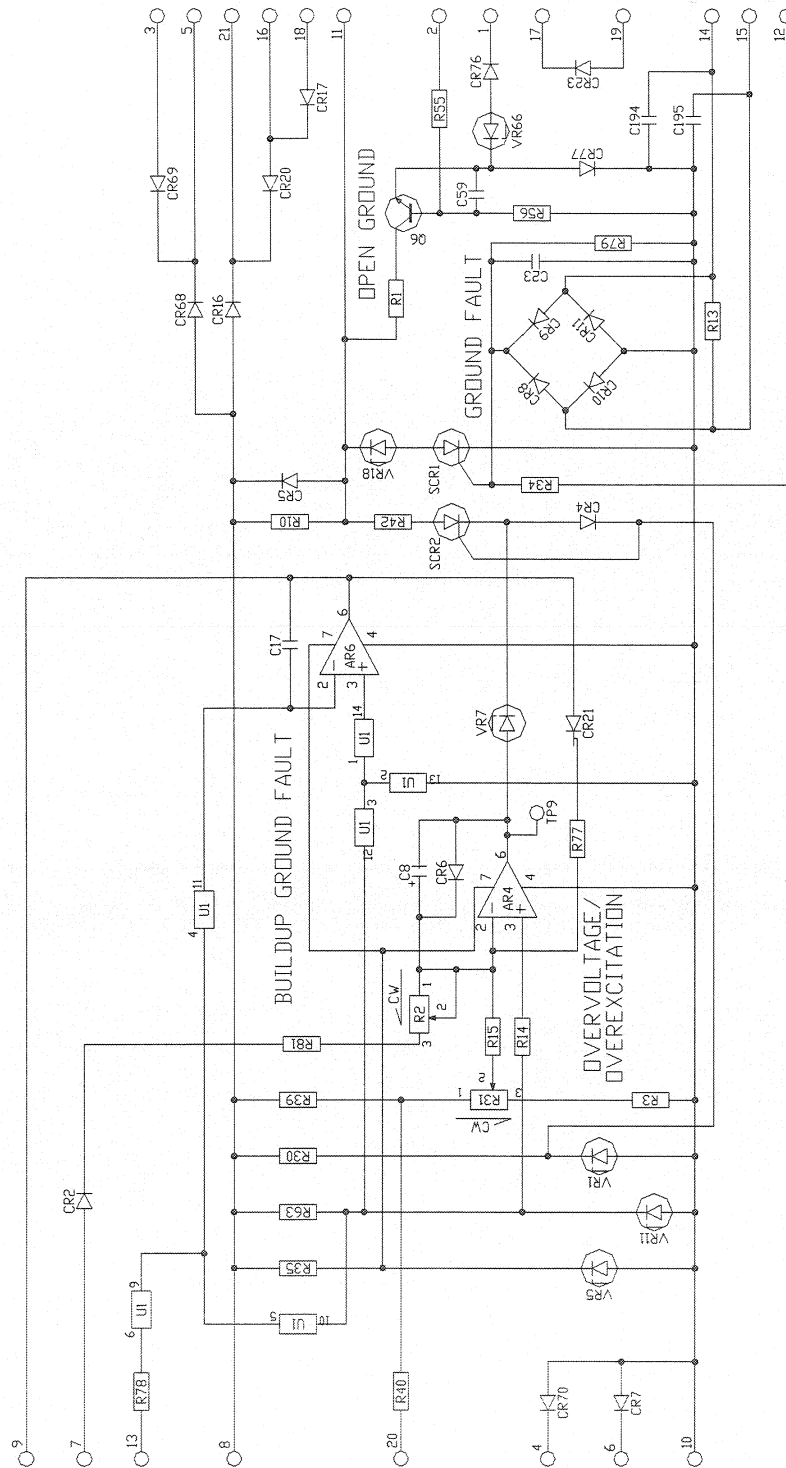


Figure 2026 - Schematic Diagram, PWB1 (51539-330, -331, -332 Rev. F thru latest)