

4M7 Resistors			
Quantity	Designators	Tol	Done
2	R44 – R45	5%, 1/4W	

68K Resistors			
Quantity	Designators	Tol	Done
1	R29	5%, 1/4W	

Diodes

There are three varieties of diodes to deal with on the Analogue Board. The 1N4148 diodes could be substituted with 1N914 diodes. The 1N4001 could be substituted by any other high power rectifier diode (such as 1N4002, etc). The BAT85 could be substituted by any low voltage Schottky diode (such as a BAT42), but be very careful that it does not exceed 400 mV at 10 mA. And do not substitute it with a 1N4148 or 1N914! Install them in the right direction (cathode is marked on the silkscreen).

1N4148 Diodes			
Quantity	Designators	Type	Done
28	D1 - D28	Diode, Si	

1N4001 Diodes			
Quantity	Designators	Type	Done
1	D29	Diode, Si	

BAT85 Diodes			
Quantity	Designators	Type	Done
1	D30	Schottky Diode, Si	

Capacitors

There are five capacitors on the Analogue Board that are polarized. All of these are the electrolytic capacitors. Be sure to put those in with the correct orientation – positive lead goes to the square pad, and the positive lead is also marked with “+” on the silkscreen.

100 nF (0.1 uF) Capacitors			
Quantity	Designators	Type	Done
14	C1-C8, C13 – C18	Ceramic	

330 nF (0.33 uF) Capacitors			
Quantity	Designators	Type	Done
1	C9	Ceramic	

Polarized 10 uF Capacitor			
Quantity	Designators	Type	Done
2	C19 – C20	Electrolytic, 25V	

Polarized 4.7 uF Capacitor			
Quantity	Designators	Type	Done
3	C10 - C12	Electrolytic, 25V	

Multi-Turn Trim Pots

There are six 10K trim pots that are used for calibration of the Range Switch voltages.

Remember, if you are installing any of the variable range options, do not install R41. There are two 100K trim pots that are installed regardless of configuration.

10K Multi-Turn Trim Pots			
Quantity	Designators	Type	Done
7 (8*)	R34 – R41 (do not install R41 if variable range option is installed).	25 Turn, Top Adjust	

100K Multi-Turn Trim Pots			
Quantity	Designators	Type	Done
2	R42-R43	25 Turn, Top Adjust	

Installing the ICS

All of the ICs are socketed, save for one – U5, the 78L10 Voltage Regulator. Locate its position on the silk screening, and install it in the orientation depicted on the silkscreen of the board.

78L10			
Quantity	Designators	Type	Done
1	U5	10V Linear Voltage Regulator	

After installing U5, all of the solder work is now done. Clean the board, then install the rest of the ICs in their sockets. As a reminder, when handling the ICs, make sure you are properly grounded to avoid damaging the ICs through electro-static discharge.