5. Two 'clock' supplies and eight 'reset' supplies are provided. These are distributed from waveform-output packages as follows:

| Waveform | Source | To Rows |
|---|---|---|
| Clock 1 | 10D | 11-13, 20-29 and monitor |
| Clock 2 | 10E | 30-39 |
| Reset 1 | 10J | 11-13 |
| Reset 2 | 10K | 20,21 |
| Reset 3 | 10M | 22-25 |
| Reset 4 | 10P | 26-29 |
| Reset 5 | 10Q | 30,31 |
| Reset 6 | 10R | 32,33 |
| Reset 7 | 10T | 34-36 |
| Reset 0 | 10U | 37-39 |

Notice that reset 4 is used for strobing the information read from the drum. The positions of the waveform-distribution panels are shown in fig. 1.3. The cables are terminated as shown in fig. 3-1. Bias is applied at the distribution end of the cables.

**POWER SUPPLIES**

6. An auxiliary HT unit is provided to supply the oscillator, discriminator and clock-amplifier packages so that the drum speed is not affected when the main HT supplies are switched off for package changing. This unit is situated between the drum and the bank of heater transformers in bay 1, and is bolted direct to the bay uprights. The circuit and layout are shown in fig. 3.2. The unit is fed from phase C' of the regulated supply; consequently it comes on slowly with the heaters. It will supply 250 mA at +300V and 90 mA at -150V; though the actual current demands are about 100 mA and 66 mA respectively. Additional secondary windings are provided on the transformers to enable the output voltages to be adjusted within ±6% in steps of 1.5%. The two outputs pass through alarm fuses at the top of bay 1: when a fuse contact spring is released, relay RL9 in bay 2 is de-energised, drum writing is inhibited, HT and heater supplies are switched off.

7. The heaters of the drum-servo packages are fed from the same supply as the heaters of the other packages in the same row. In addition, the clock amplifier uses the main computer bias supplies for controlled limiting. Removing the bias link in bay 2 should not affect the drum speed significantly, but the bias supply should never be switched off from the power-supply cabinet while the drum is running, as the output of the clock amplifier would then be reduced to zero and the drum would run up out of range of the servo.