These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to General Electric Company.
INSTRUCTION

20 Volt Power Supply Card
193X257AAG01

GENERAL

This instruction provides the basic information required to start up and troubleshoot the subject card. Refer to the system diagrams to determine how the card has been used in the overall system.

DESCRIPTION

The 20 volt Power Supply Card in conjunction with a transformer and power supply rectifier provides regulated +20V DC and -20V DC to operate other printed circuit cards and assemblies.

1) Each output is factory trimmed to 20V ±1 volt and will provide up to 750 mA of current.
2) The outputs are individually fused to protect the card against overload.
3) Individual overvoltage circuits are furnished which will momentarily short the outputs to zero, forcing the fuses to open, whenever excessive voltage appears at the outputs.
4) The card is designed such that if one of the fuses opens, the overvoltage circuit on the other side will force the other fuse to open.
5) Two spare fuses are provided.
6) Test posts which are connected to the outputs through a 15K ohm resistor are provided to monitor the output voltage.

START-UP/CHECKOUT

There are no adjustments on this card.

TROUBLESHOOTING

The normal voltage conditions are as follows:

| Tabs 10, 11 | -22 to -45V DC | Unregulated Input |
| Tabs 20, 21 | +22 to +45V DC | Unregulated Input |
| Tabs 2, 5, 6 | -19.0 to -20.1V DC | No load to full load |
| Tabs 28, 29, 30, 31 | +19.9 to +20.1V DC | No load to full load |

If trouble is suspected in this card, remove all loads connected to the +20 and -20 volt outputs and all loads connected to tabs 8 and 26 prior to concluding the card is defective.
NOTES:
1. TEMPERATURE COMPENSATED RESISTOR.
2. NUMBERS INSIDE SMALL RECTANGLES INDICATE TAG NUMBERS WHICH CORRESPOND TO MATCHING RECEPTACLE NUMBERS.
3. FUSES ARE INSTRUMENT TYPE LITTLE FUSE.
NOTES

1. INDICATED TAB NUMBERS CORRESPOND TO
   WATCHING RECEVACLE NUMBERS

2. CROSS HATCHED TABS INDICATES TABS USED.

3. CARD SIZE: 5.500 X 5.500".

4. SCR LEAD SKETCHES
   (TOP VIEW)

5. TRANSISTOR LEAD SKETCHES
   (TOP VIEW)

6. GROUP FOR
   TRANSISTOR LEAD SKECHES
   (TO P VIEW)

7. SCALE FOR
   BASE CAPACITOR COLLECTOR - ENCAPSULATE

8. REAR ETCHED FRONT ETCHED BACK

GROUP 1 KEY LOCATIONS

01 02 03-05 06-07 08-09 10-11 12-13 14-15 16-17 18-19 20-21 22-23 24-25