



INSTRUCTIONS

GEK-65542A
Insert Booklet GEK-45464

STATIC BREAKER BACKUP RELAY TYPE SBC99AC

INTRODUCTION

This supplement together with GEK-45464 forms the instructions for the SBC99AC special relay.

DESCRIPTION

The SBC99AC relay is an updated model of special relay 0257A1314. The basic functions and the external connections are the same.

The SBC99AC is similar to the SBC23B with differences listed below. These differences are evident when comparing external connections diagrams (Figure 9 of GEK-45464 for SBC23B and Figure 1 of this book for SBC99AC).

1. The SBC23B has a breaker failure trip (BFT) unit and an instantaneous trip (IT) unit. The SBC99AC has two BFT units but no IT unit. Each BFT unit in the SBC99AC is controlled by a separate timer.

<u>12SBC99AC(-)D</u>	<u>Timer Adjustment Range</u>	
	<u>A/O</u>	<u>B/O</u>
Forms 1, 2, 3	50 - 500 ms	50 - 500 ms
Form 4	50 - 500 ms	5 - 50 ms

2. The SBC23B has seal-in capability using the IT₂ contact on terminal 11A. This contact is not available on the SBC99AC.
3. The SBC23B has two links designated IN/OUT and OR/AND. The SBC99AC has only an IN/OUT link that serves the following purpose. When the link is in the IN position, AND2 will produce an output only if the external contact (supplied by user) applies rated DC to terminal 19 and there is an output from the level detector. When the link is in the OUT position, AND2 will produce an output whenever there is an output from the level detector.
4. The printed circuit cards are the same for the SBC23B and SBC99AC except for the "B" and "C" cards. The internal connections for the "B" and "C" cards of the SBC99AC are shown in Figure 3 and 4 of this book, respectively.

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 the General Electric Company.

To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.

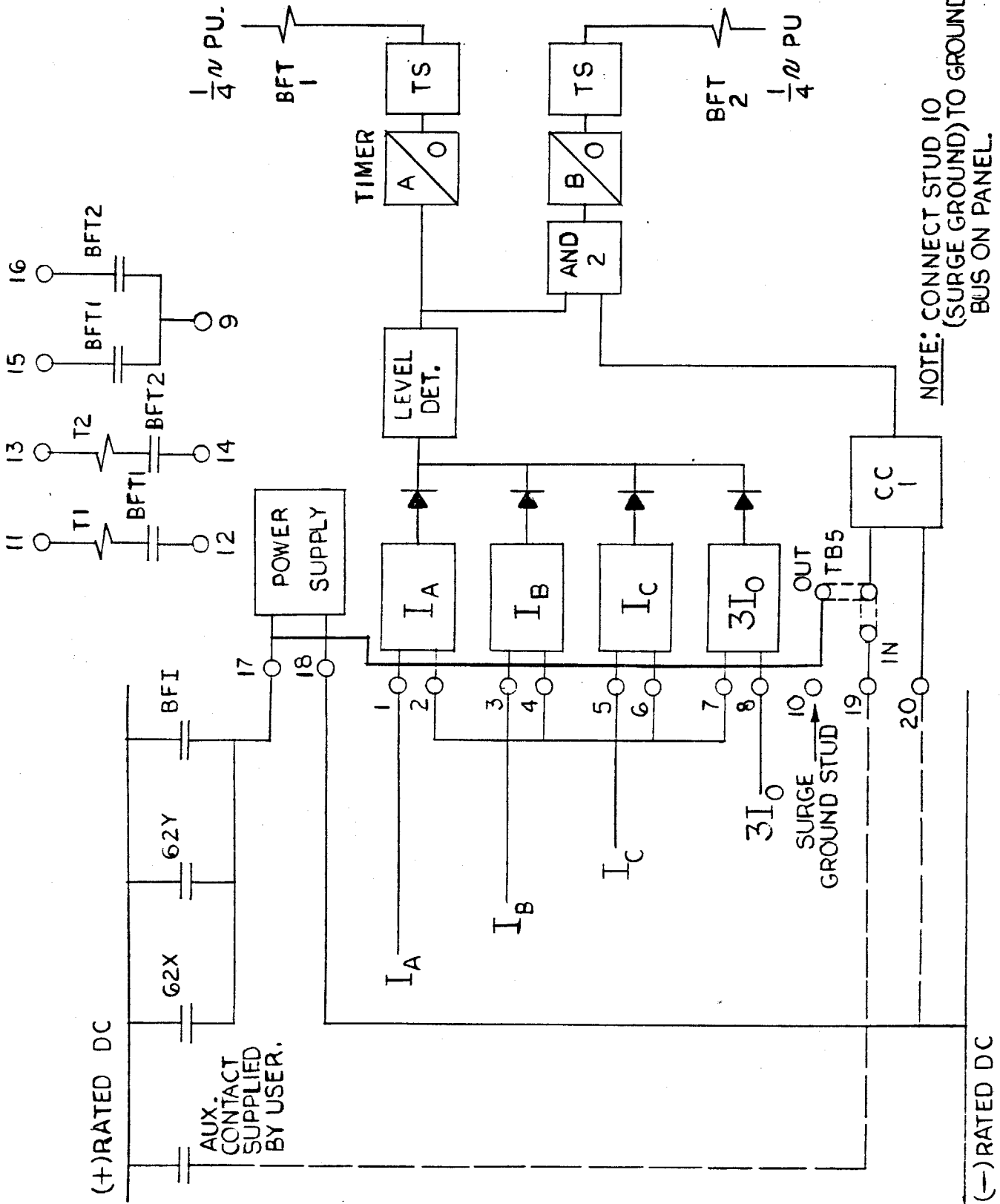
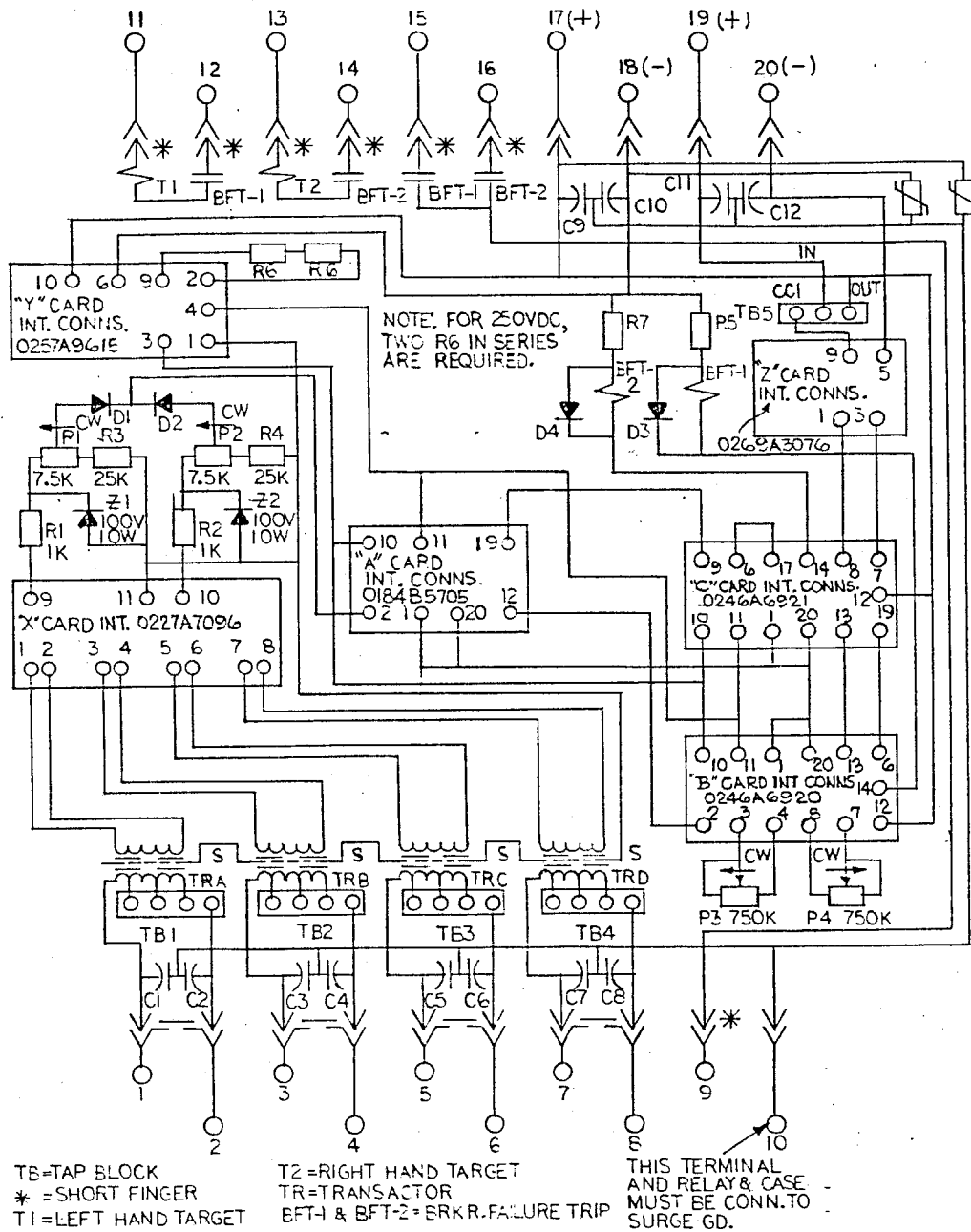


Figure 1 (0275A4422-1) External Connections for SBC99AC Relay

GEK-65542



FORM	VOLTAGE RATING	R5	R6	R7
1	125 V.D.C.	1500 \sim 12W	1000 \sim 20W	1500 \sim 12W
2	250 V.D.C.	3500 \sim 12W	2000 \sim 40W	3500 \sim 12W
3	48 V.D.C.	500 \sim 10W	250 \sim 10W	500 \sim 10W
4	125 V.D.C.	1500 \sim 12W	1000 \sim 20W	2500 \sim 12W

Figure 2 (0275A4421-2) Internal Connections for SBC99AC Relay

P.C. CARD 0183B4149 G-4

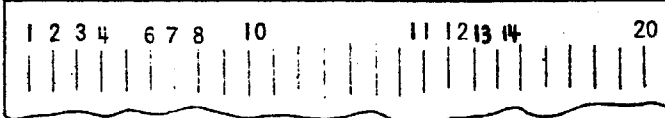
① = TERMINAL PIN ON P.C. CARD.

ALL RESISTORS 1/2 WATT ± 5%

UNLESS OTHERWISE NOTED.

RD = REED RELAY

TERMINAL PIN LOCATION



COMPONENT SIDE

TOP VIEWS

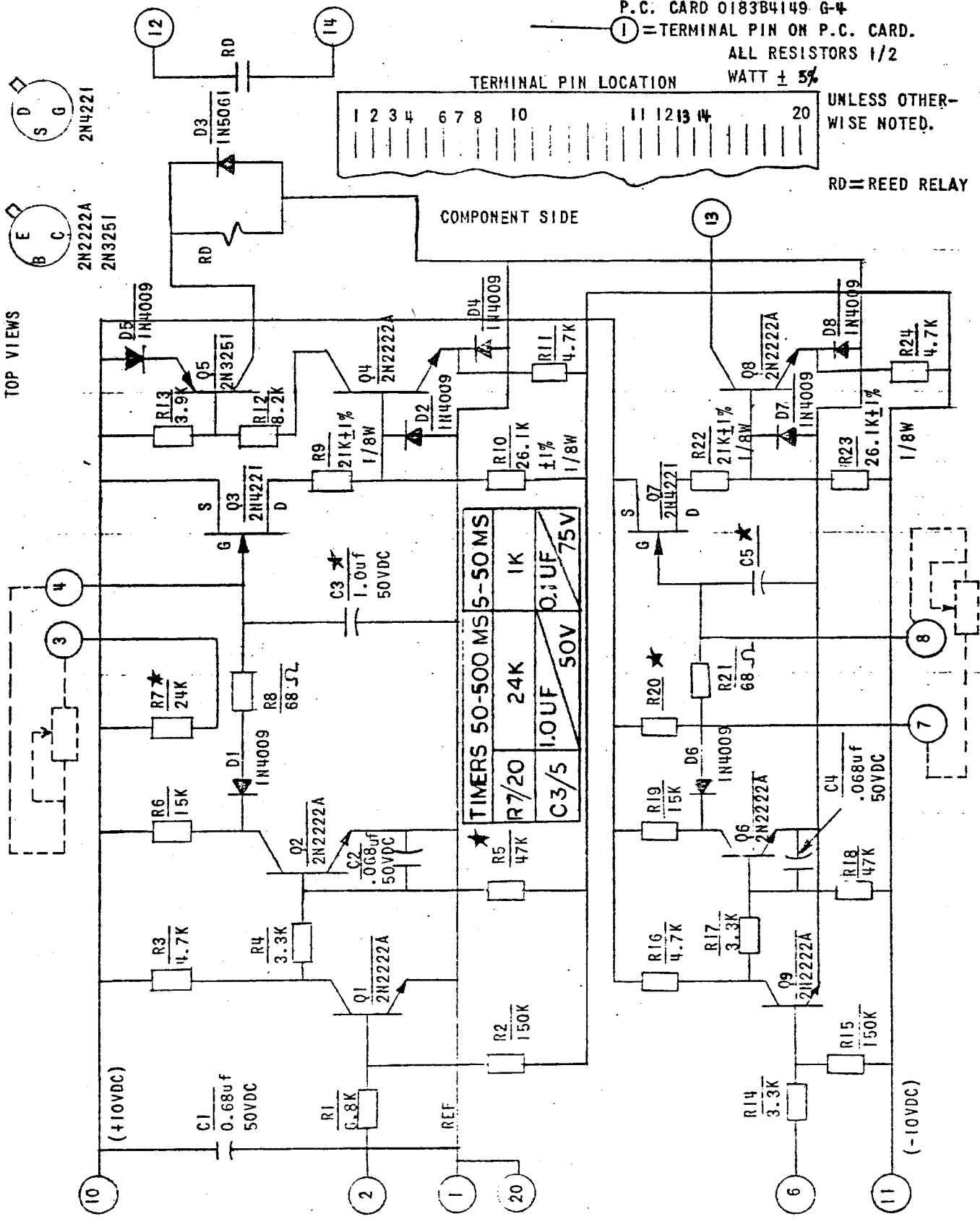


Figure 3 (0246A6920-2) Internal Connections for "B" Card

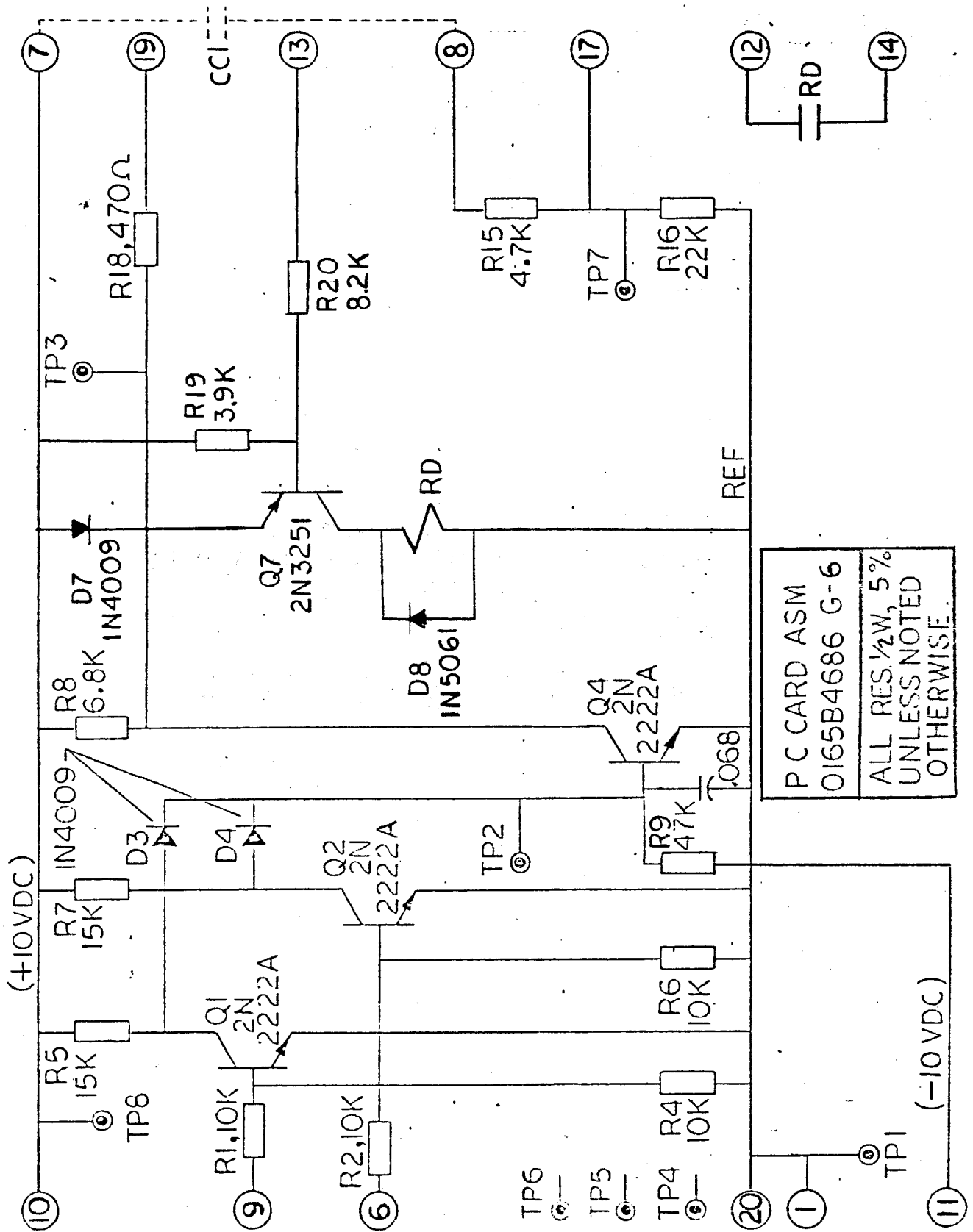


Figure 4 (0246A6921-1) Internal Connections for "C" Card

**GENERAL ELECTRIC COMPANY
POWER SYSTEMS MANAGEMENT BUSINESS DEPT.
MALVERN, PA 19355**

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