

INSTRUCTIONS

GEI 90807C
Insert Booklet GEI-83947
Superseded GEI-90807B

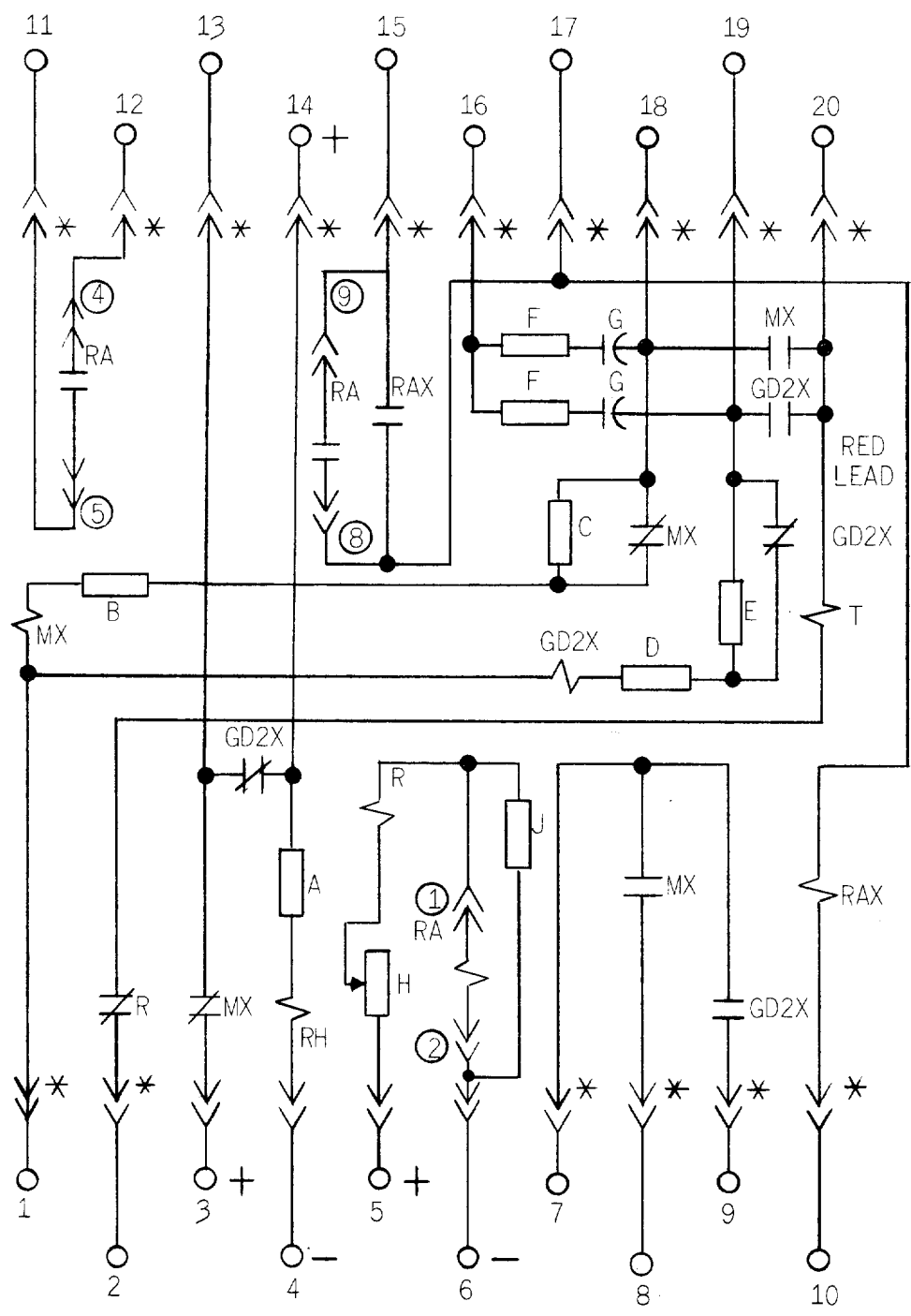
AUXILIARY RELAY

TYPE BCA11AX

POWER SYSTEMS MANAGEMENT DEPARTMENT

GENERAL  ELECTRIC

PHILADELPHIA, PA.



① = TELEPHONE RELAY
PIN DESIGNATION
* = SHORT FINGER

Fig. 1A (0165A7518-3 Sh. 1) INTERNAL CONNECTIONS (FRONT VIEW) OF THE BCA11AX RELAY

CARRIER CURRENT AUXILIARY RELAY

TYPE BCA11AX

INTRODUCTION

This supplement in conjunction with GEI-83947 forms instructions for the BCA11AX relay. All information pertinent to the BCA11AX relay which is not covered by this supplement is as indicated in GEI-83947.

DESCRIPTION

In addition to devices contained in the BCA11AV relay, the BCA11AX relay also contains two telephone-type auxiliary relays indicated on the internal connection diagram, Fig. 1 of this supplement, as RA and RAX. The RAX unit is picked up by the RA unit and is used to provide an indication of carrier trip until reset. The RA and RAX relay contacts have the same rating as MX and GD2X relay contacts. The relay components are mounted in a drawout M-2 case and the outline and panel drilling is shown in Fig. 2 of this supplement.

CHARACTERISTICS

The RA unit is adjusted to pick up between 0.130 and 0.150 amperes and drop out between 0.045 and 0.065 amperes.

The RAX unit is adjusted to pick up at 70 percent or less of rated voltage and the drop-out time is about 0.1 of a second.

ACCEPTANCE TESTS

When checking the pickup and dropout of the receiver (R) unit as shown in Figures 6 and 7 of GEI-83947, the pickup and dropout of RA should also be checked. During the acceptance tests a source of variable DC voltage should be connected to relay studs 10 and 17 to check the pickup of the RAX unit.

The RA and RAX units should have the same contact gap and wipe as the MX and GD2X units or a gap of 0.010 inch - 0.015 inch and a wipe of approximately 0.005 inch. If it is found necessary to adjust the pickup or dropout of these auxiliary units, the contact wipe and gap must be rechecked after such adjustment is made.

RESISTANCE TABLE

MODEL	RATED	RESISTANCE VALUE IN OHMS														CAP.G
		RH	RA	R	RAX	MX	A	B	C	D	E	F	GD2X	H*(ADJ.)	J	
12BCA11AX1A	250	1060	3	6	12,000	58	7000	800	3400	5000	5000	150	400	25	10	0.25
12BCA11AX2A	125	1060	3	6	3300	58	3000	300	1700	2000	1000	150	400	25	10	0.25
12BCA11AX3A	48	1060	3	6	500	10	500	50	350	200	125	50	10	25	10	1.0
12BCA11AX4A	250	1100	400	1600	12,000	58	7000	800	3400	5000	5000	150	400	325	1200	0.25
12BCA11AX5A	125	1100	400	1600	3300	58	3000	300	1700	2000	1000	150	400	325	1200	0.25
12BCA11AX6A	48	1100	400	1600	500	10	500	50	350	200	125	50	10	325	1200	1.0
0178A8963G-1	* *	1000	3	6	3300	58	3000	800	3400	5000	5000	150	400	25	10	0.25

Fig. 1B (0165A7518-4 Sh .2) COMPONENT RESISTANCE TABLE OF THE BCA11AX RELAY.

*H resistor is set so resistance between studs 5 and 6 is 27 ohms at 25°C.

**RH and RAX are 125 VDC, MX and GD2X are 250 VDC.

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.

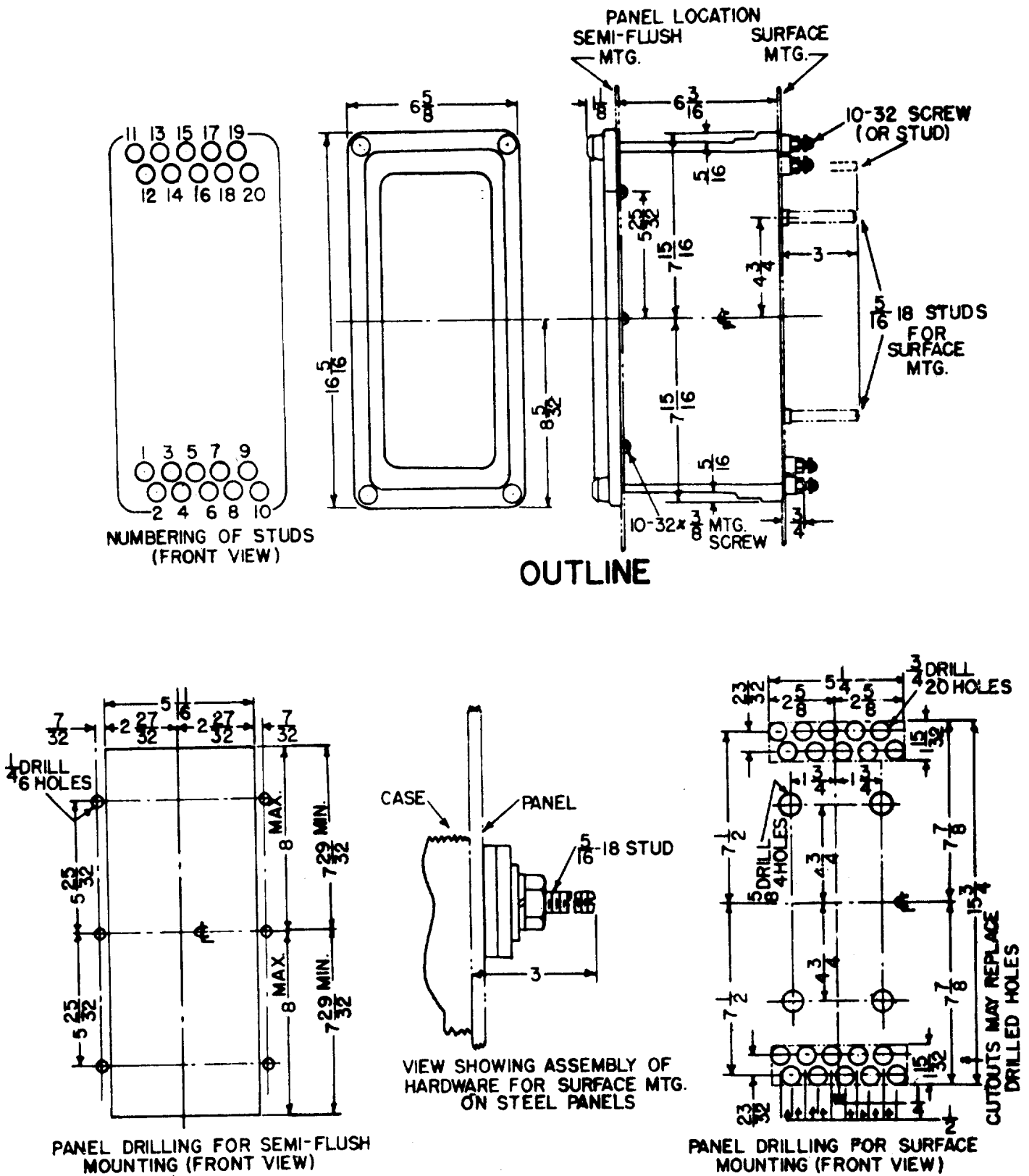


Fig. 2 (6209274-2) OUTLINE AND PANEL DRILLING DIMENSIONS FOR THE BCAT1X RELAY