



GEI-83945D

INSTRUCTIONS

TRANSFER TRIP AUXILIARY RELAY

NAA27M

GENERAL ELECTRIC

CONNECTIONS AND MOUNTING

The internal-wiring diagram is shown in Figures 2 and 3.

The relay should be mounted on a vertical surface. The outline and panel-drilling diagram is shown in Figure 4.

Type NAA27M relays are shipped from the factory completely calibrated, but in the event that the GX or TX units should get out of calibration, the adjustments under the **SERVICING** section may be performed. When performing these adjustments, refer to Figure 1.

SERVICING

CONTACTS

For cleaning the GX or TX unit contacts, a flexible burnishing tool should be used. This consists of a flexible strip of metal with an etch-roughened surface, resembling in effect a superfine file. The polishing action is so delicate that no scratches are left, yet corroded material will be removed rapidly and thoroughly. The flexibility of the tool ensures the cleaning of the actual points of contact.

The contacts should not be cleaned with knives, files, or abrasive paper or cloth. Knives or files may leave scratches that increase arcing and deterioration of the contacts. Abrasive paper or cloth may leave minute particles of insulating abrasive material in the contacts, thus preventing closing.

PICKUP

To decrease the percentage of rated voltage at which the GX or TX unit picks up, decrease the spacing of the armature from the pole face by bending the contact-operating-arm stop. After this adjustment, all contacts must be readjusted to have a 0.004 to 0.008 inch wipe and a gap of 0.015 to 0.020 inch.

To increase the percentage of rated voltage at pickup, reverse the above procedure.

PICKUP TIME

In order to decrease the pickup time of the TX unit, reduce the pressure of the normally-closed contacts by bending slightly the movable flexible-contact arm.

The pickup time may be increased by reversing this procedure.

<p>NOTE: The residual screw must not be removed completely. The minimum gap must be 0.002 inch between the armature and the pole piece.</p>

Forms 11-12-13-15-16-17-18

The residual screw has been eliminated from the GX unit. The new GX unit has a fixed residual pin.

The dropout time of both units may be adjusted a small amount by varying the amount of pressure on the closed contacts.

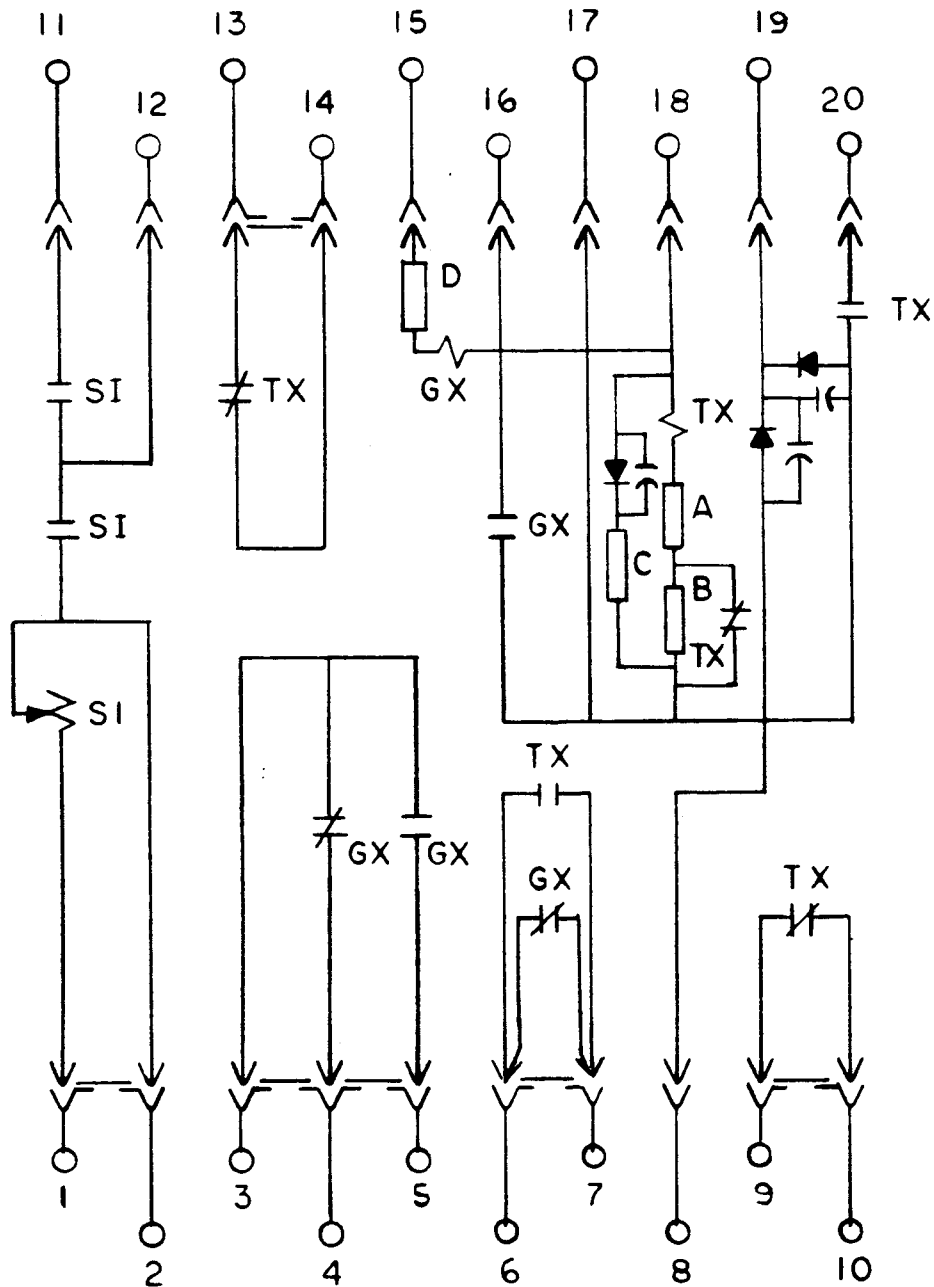
All the adjustments in this section may be most easily made with the tools supplied in the relay tool kit, XRT11A1.

RENEWAL PARTS

It is recommended that sufficient quantities of renewal parts be carried in stock to enable the prompt replacement of any that are worn, broken, or damaged.

When ordering renewal parts, address the nearest Sales Office of the General Electric Company, specify the quantity required and the name of the part wanted, and give complete nameplate data. If possible, give the General Electric Company requisition number on which the relay was furnished.

Since the last edition, Figures 3 and 4 have been revised.



MODEL	RATED	TX		GX		A	B	C	D
		P.U. (SECS.)	OHMS	D.O. (SECS.)	OHMS				
12NAA27M 15A	250	.004	58	.3-.5	2500	800	4000	1500	5000
12NAA27M 16A	125	.004	58	.3-.5	2500	300	2000	500	1500
12NAA27M 17A	48	.004	10	.3-.5	800	50	350	100	200
12NAA27M 18A	125	.004	58	.3-.5	2500	300	2000	500	1500

Figure 3 (0195A4947 Sh 1 [2], Sh 2 [4]) Internal-Connection Diagram for Relay Type NAA27M, Forms 15-16-17

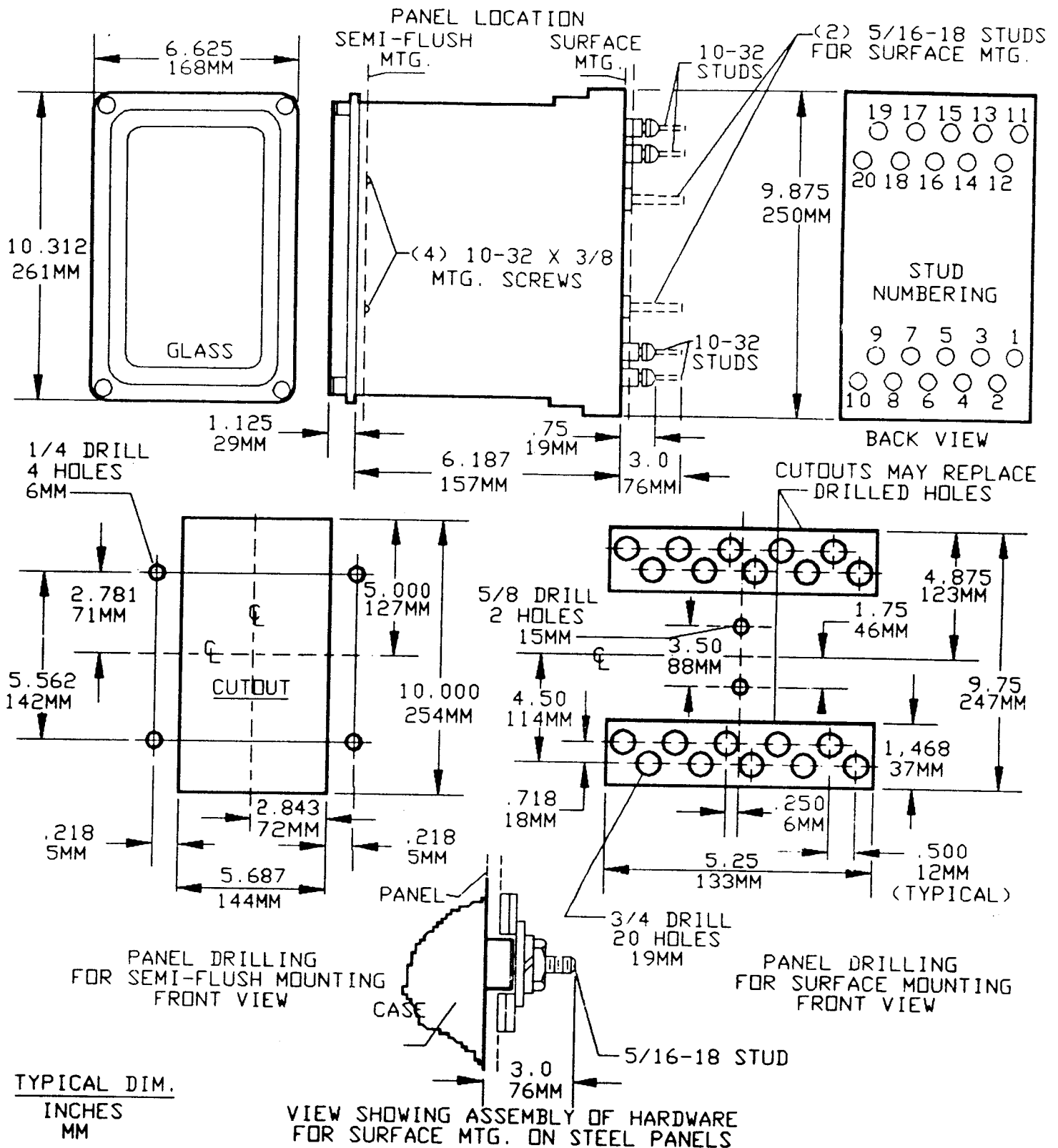


Figure 4 (K-6209272 [7]) Outline and Panel-Drilling Diagram for Relay Type NAA27M

Protection and Control

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