



GE VERNOVA

INSTRUCTIONS

XLB TEST BLOCK PANEL

XLB TEXT BLOCK PANEL

DESCRIPTION

The XLB Test Block Panel is designed for use with GE relays that do not have test facilities.

The XLB test blocks used on this test panel utilize the same design features used in the drawout-type construction of GE component relays. These test blocks are constructed in a manner that allows the user to disconnect the relay or parts of it from service. This is done by pulling out the plug that is inserted in each test block. Pulling out this plug automatically opens the DC circuits, the potential circuits, and the relay output circuits; it also shorts out the current circuits. An XLA test plug (see Figure 6) can be inserted in the test block, allowing the user to inject voltage and/or currents into the relay for the performance of various tests. When the XLA plug is inserted, the shorting bars in the test block will open up, leaving the CT's open-circuited; thus, **it is very important to place shorting bars (see Figure 7) across the proper terminals of the test plug prior to inserting it in the test block.**

NOTE: The XLA test plugs are not supplied with the test panel, but can be ordered separately.

The contact configuration of the test blocks used on the XLB Test Block Panel are shown in Figure 2. The shorting bars shown in Figures 2A and 2C are provided for CT circuits. The short fingers shown in Figures 2C, 2D, and 23E are provided to allow relay output circuits to be connected to the system after the relay input connections are made. They also cause the relay output circuits to be disconnected from the system before the relay input connections are removed.

APPLICATION

With Group 1 and 2 Test Block Panels, the TB1 block (see Figure 2A) is used for the PT and CT connection, as follows:

SYSTEM CONNECTION	TB1 (FIGURE 2A) TERMINAL NO.	RELAY CONNECTION	TB1 (FIGURE 2A) TERMINAL NO.
PT, ϕ A	1	ϕ A POTENTIAL	11
PT, ϕ B	2	ϕ B POTENTIAL	12
PT, ϕ C	3	ϕ C POTENTIAL	13
PT, N	4	N POTENTIAL	14
PT, ϕ A	5	ϕ A CURRENT IN	15
PT, ϕ B	7	ϕ A CURRENT OUT	16
PT, ϕ C	9	ϕ B CURRENT IN	17
CT, N	6	ϕ B CURRENT OUT	18
CT, N	8	ϕ C CURRENT IN	19
CT, N	10	ϕ C CURRENT OUT	20

These instructions do not purport to cover all details or variations in equipment nor 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.

With group 3 and 4 Test Block Panels, the TB1 block (see Figure 2C) is used for the CT connections and the TB2 block (see Figure 2D) is used for the PT connections, as follows:

SYSTEM CONNECTION	TB1 (FIGURE 2C) TERMINAL NO.	RELAY CONNECTION	TB1 (FIGURE 2C) TERMINAL NO.
DC	1	DC	11
CT, ϕ A	5	ϕ A CURRENT IN	15
CT, ϕ B	7	ϕ A CURRENT OUT	16
CT, ϕ C	9	ϕ B CURRENT IN	17
CT, N	6	ϕ B CURRENT OUT	18
CT, N	8	ϕ C CURRENT IN	19
CT, N	10	ϕ C CURRENT OUT	20

SYSTEM CONNECTION	TB1 (FIGURE 2D) TERMINAL NO.	RELAY CONNECTION	TB1 (FIGURE 2D) TERMINAL NO.
DC	1	DC	11
PT, ϕ A	7	ϕ A POTENTIAL	17
PT, ϕ B	8	ϕ B POTENTIAL	18
PT, ϕ C	9	ϕ C POTENTIAL	19
PT, N	10	N POTENTIAL	20

NOTES; 1) The DC circuit can be connected through terminals 1 and 11 of each test block on Group 3 and 4 panels; this allows the DC connections to be made before the output connections are made, and to be removed after the output connections are removed.

2) The terminals on the test blocks with short fingers are for the relay output connections.

RATING

The XLB Test Blocks are rated at 250 volts. Each contact is rated at 25 amperes continuous.

RECEIVING, HANDLING, AND STORAGE

Immediately upon receipt, the panel should be unpacked and examined for damages it might have sustained in transit. If injury or damage resulting from rough handling is evident, file a damage claim at once with the transportation company, and promptly notify the nearest General Electric Sales Office.

Reasonable care should be exercised in unpacking the equipment. If the panel is not to be installed immediately, it should be stored indoors in its own carton, in a location that is free from moisture, dust, metallic chips, and severe atmospheric conditions.

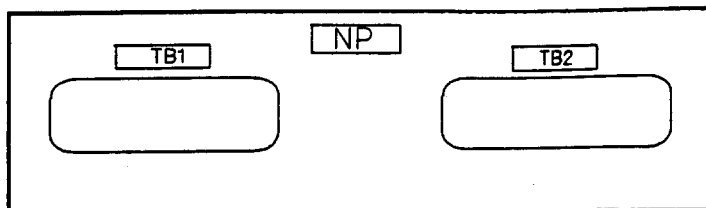


Figure A

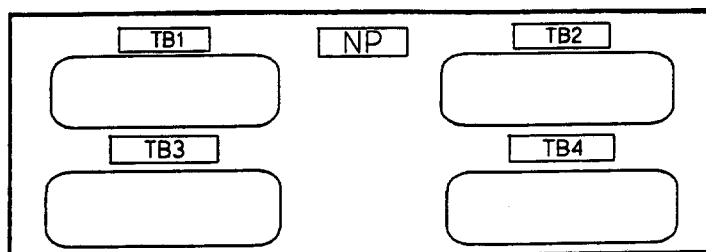


Figure B

PNL. GR. NO.	FIG.	TYPICAL TEST BLOCK CONNECTIONS			
		TB1	TB2	TB3	TB4
1	A	PT & CT CONN.	DC & OUTPUT CONN.	—	—
2	B	PT & CT CONN.	DC & OUTPUT CONN.	DC & OUTPUT CONN.	DC & OUTPUT CONN.
3	A	CT,DC&OUT- PUT CONN.	PT,DC&OUT- PUT CONN.	—	—
4	B	CT,DC&OUT- PUT CONN.	PT,DC&OUT- PUT CONN.	DC & OUTPUT CONN.	DC & OUTPUT CONN.

NOTE: IN THE GROUP 3 & 4 TEST BLOCKS THE AC & DC CONNECTIONS ARE MADE BEFORE THE OUTPUT CONNECTIONS

Figure 1 (0286A4811) XLB Test Panel Layout and Group Assignments

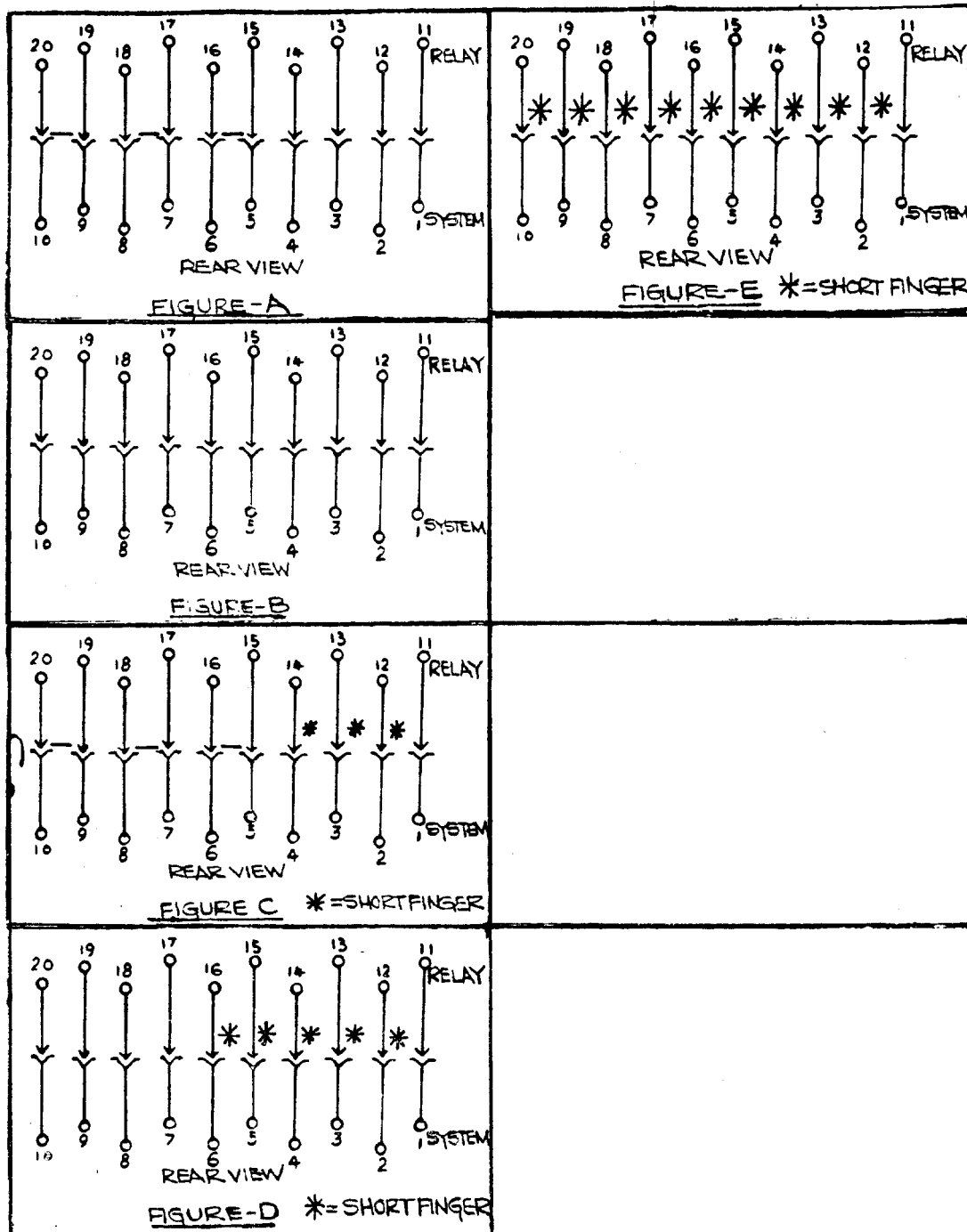


Figure 2 (0286A3785) Internal Connections of XLB Test Block Use on the XLB Test Panel

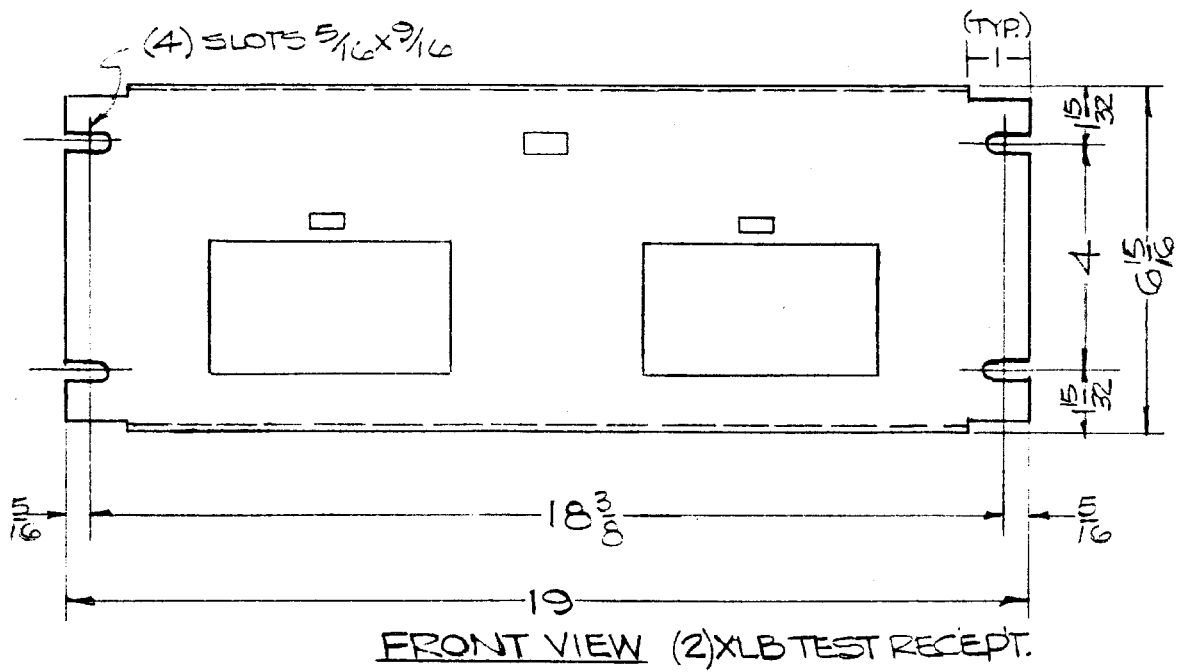


Figure 3 (0286A3786) Outline of XLB Test Panel with Two Test Receptacles

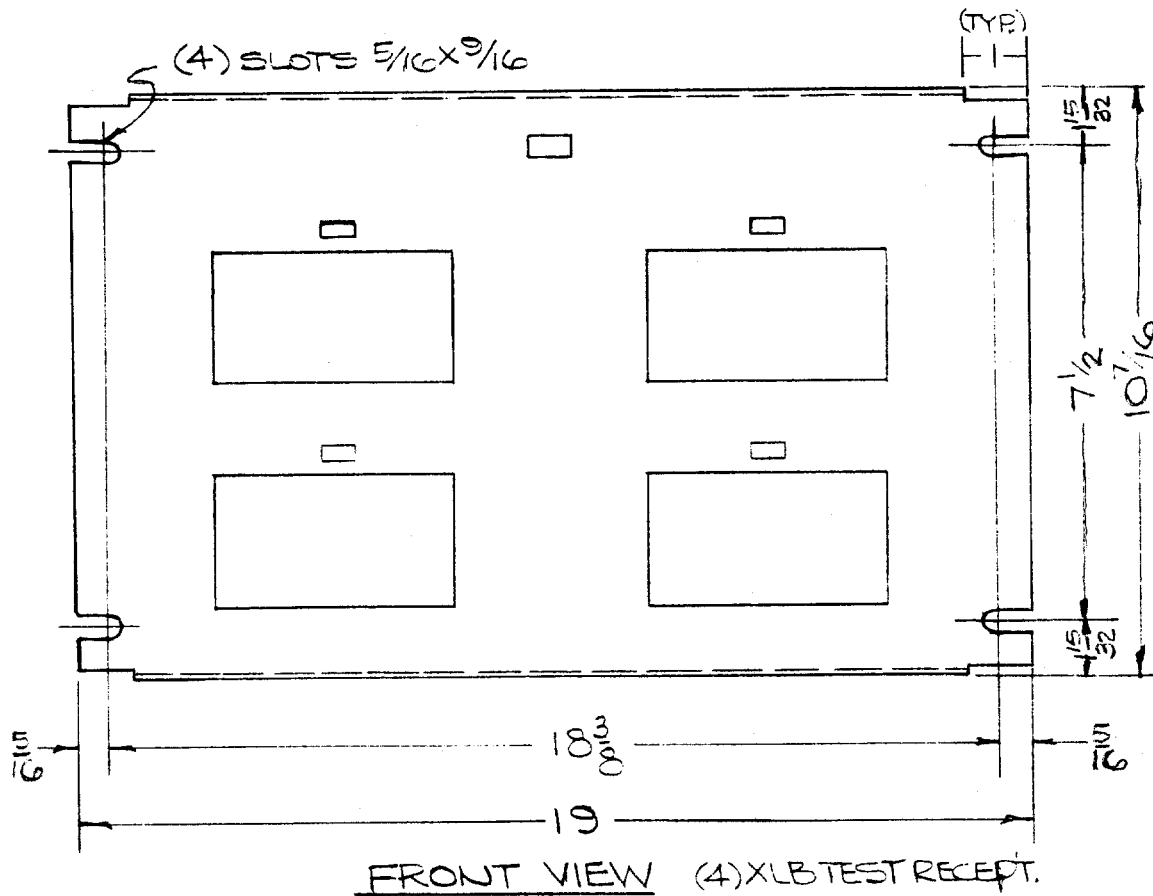


Figure 4 (0286A3787) Outline of XLB Test Panel with Four Test Receptacles

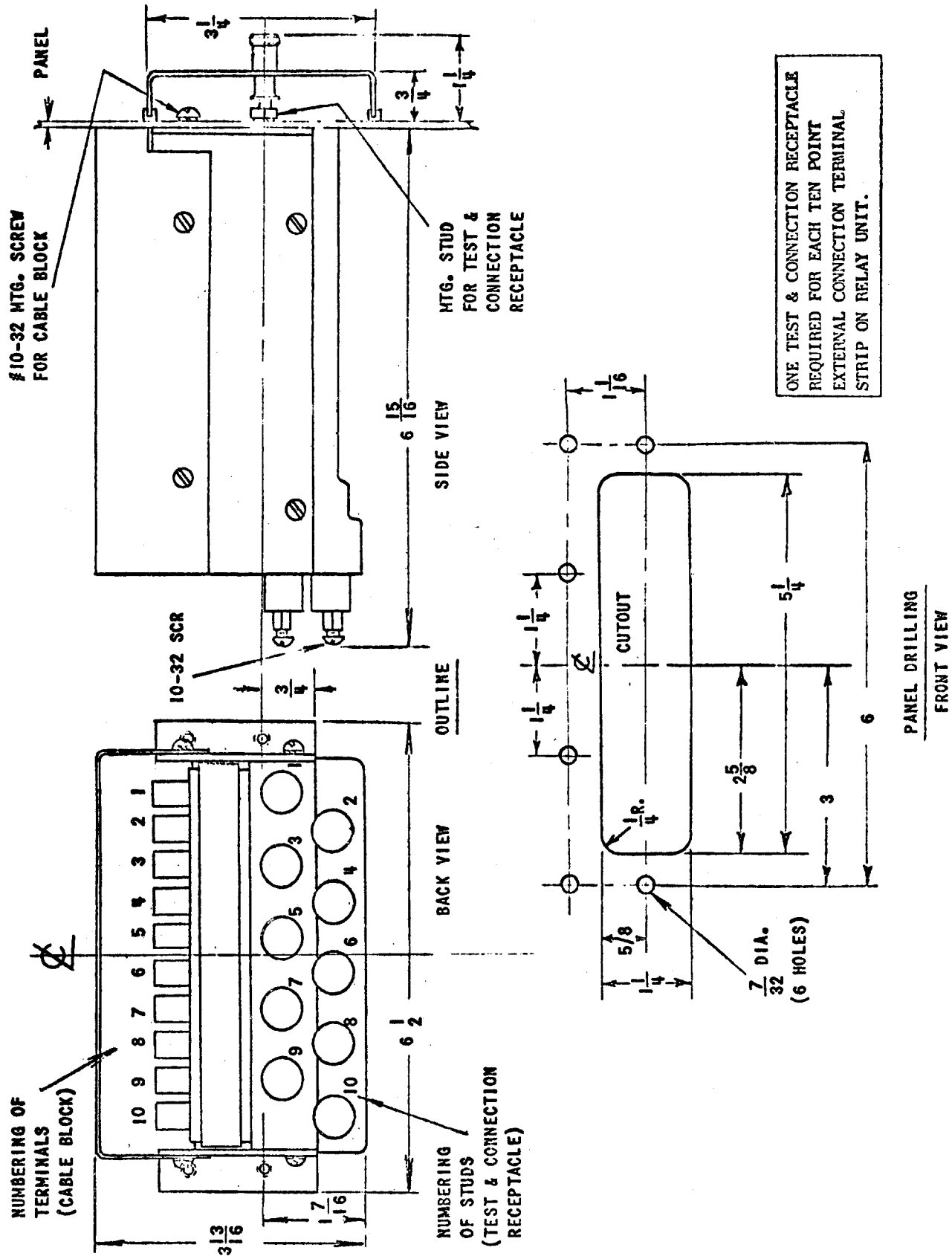


Figure 5 (0246A3647) Outline of XLB Test Plug Receptacle

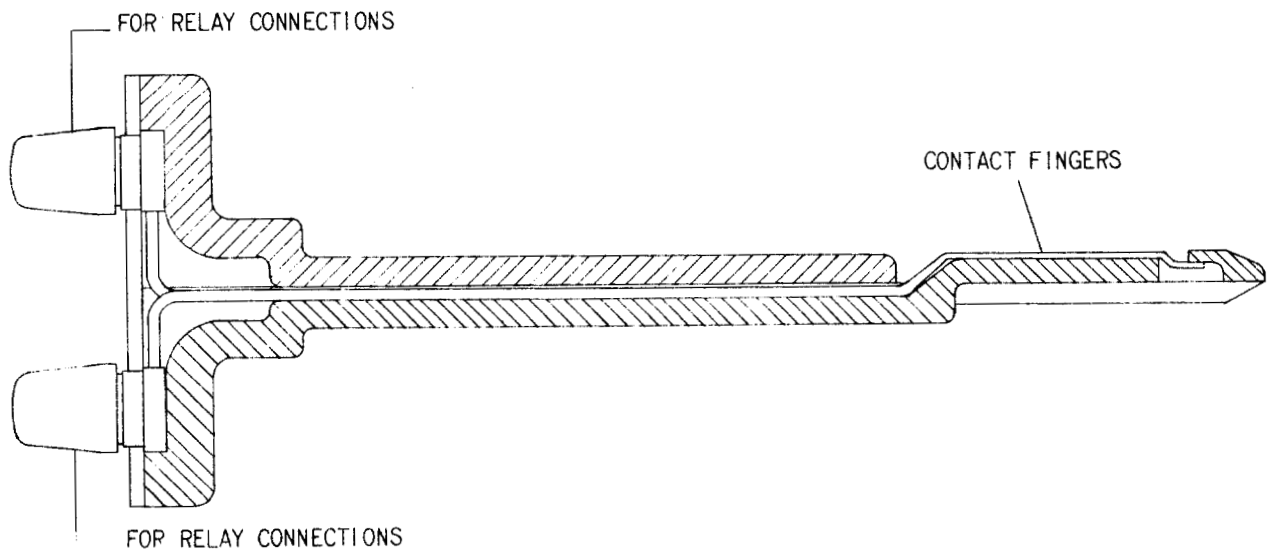


Figure 6. (0459A0246) Sectional View of the XLA Test Plug

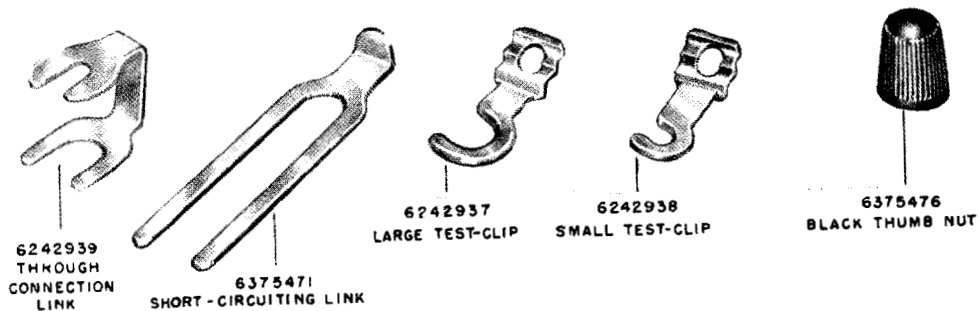
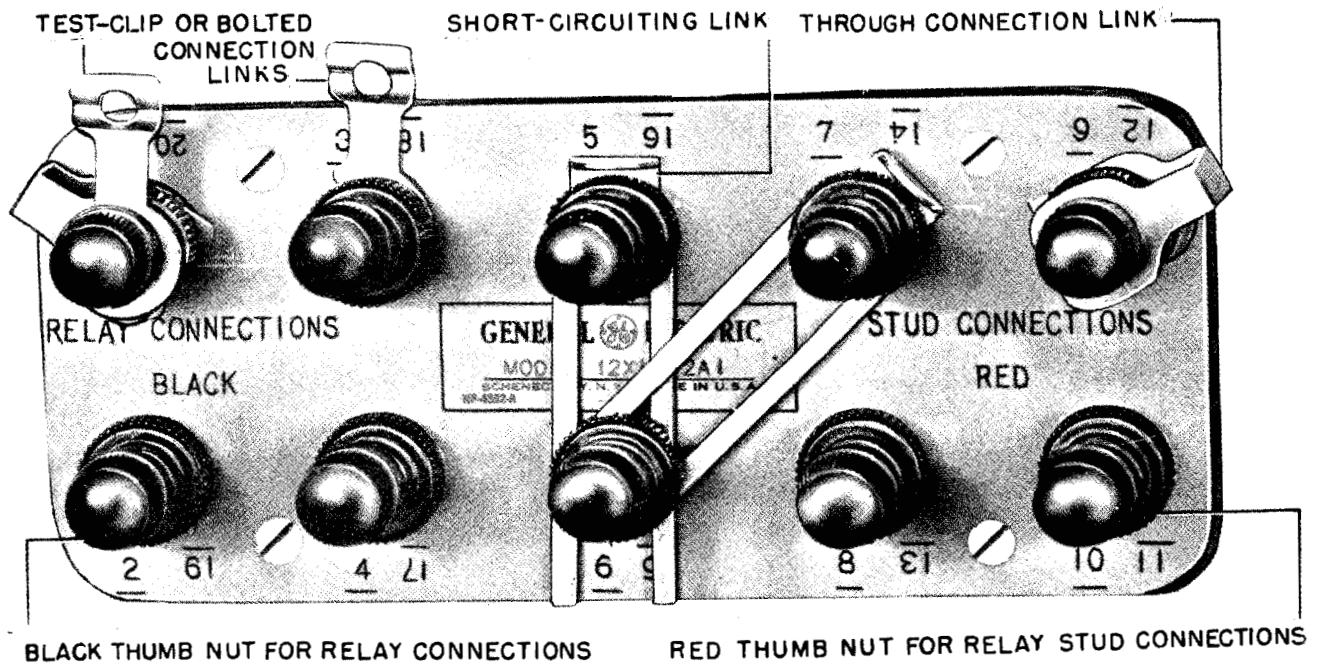


Figure 7 (8004307 & 8005525) Links in Use on XLA Test Plug



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