

## ESS-TYPE MODULAR DISTRIBUTING FRAMES

### CONNECTING BLOCK

### DESCRIPTION

#### 1. GENERAL

**1.01** This section provides descriptive information on the 66- and 78-type connecting blocks used on the ESS modular distributing frame. A description of the ESS modular distributing frame is provided in Section 201-221-101.

**1.02** Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

**1.03** Additional information pertaining to hardware associated with ESS distributing frame connecting blocks can be found in sections that are listed in Part 4, REFERENCES.

**1.04** The 66G (Mfr Disc) and 78A1; 66H (Mfr Disc) and 78B1 connecting blocks are identical except for the terminal clips mounted in the blocks. Therefore, only the 78A1 and 78B1 connecting blocks are illustrated.

#### 2. DESCRIPTION

**2.01** The 66- and 78-type connecting blocks consist of a molded plastic panel equipped with 128 tin-plated, twin-clip terminals arranged in 16 rows with 8 terminals in each row.

**2.02** Connections to the quick-clip terminals of the 66G- and 66H-type connecting blocks are made with the 714E2 wire insertion tool. Connections to the twin-clip terminals of the 78A1 and 78B1 are made with the 756D wire insertion tool. The 724A wire removal tool removes the cross-connect wiring from both the 66- and 78-type blocks.

**2.03** Each connecting block is equipped with a fanning strip on each side of the block. The fanning strips are attached with two mounting screws. The fanning strips facilitate jumper running

and prevent wire breakage at the quick-clips due to torsional fatigue.

#### A. 66G- or 78A1-Type Connecting Block

**2.04** The 66G- (Mfr Disc) and 78A1-type connecting blocks (Fig. 1) have single twin-clip terminals which provide a cross-connection capacity of 64 pairs. These connecting blocks are intended for use on trunk distributing frames.

#### B. 66H- or 78B1-Type Connecting Block

The 66H- (Mfr Disc) and 78B1-type connecting blocks (Fig. 2) have bifurcated twin-clip terminals rather than the single clip terminals. The bifurcated twin-clip terminals provide a capacity of two cross-connections for each of the 64 pairs. These connecting blocks are intended for use on main or intermediate distributing frames.

#### 3. SPECIAL SERVICE PROTECTION

**3.01** ESS distributing frames equipped with 66- or 78-type (quick-connect) connecting blocks use C or D clip-terminal insulators for identifying and protecting special service lines. The clip-terminal insulator is made from flame retardant red plastic material. Each insulator will protect one pair (tip and ring) of conductors on a block. The C or D clip-terminal insulators are used as follows:

- (a) C clip-terminal insulator for use on 66G or 78A1 connecting blocks (Fig. 3)
- (b) D clip-terminal insulator for use on 66H or 78B1 connecting blocks (Fig. 4).

#### 4. REFERENCES

**4.01** The following documents contain related information.

#### NOTICE

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SECTION	TITLE
201-221-101	ESS-Type Modular Distributing Frames - Description
201-221-301	ESS-Type Modular Distributing Frames - Method of Making Connections
201-221-801	ESS-Type Modular Distributing Frames - Connecting Blocks - Repair Procedures

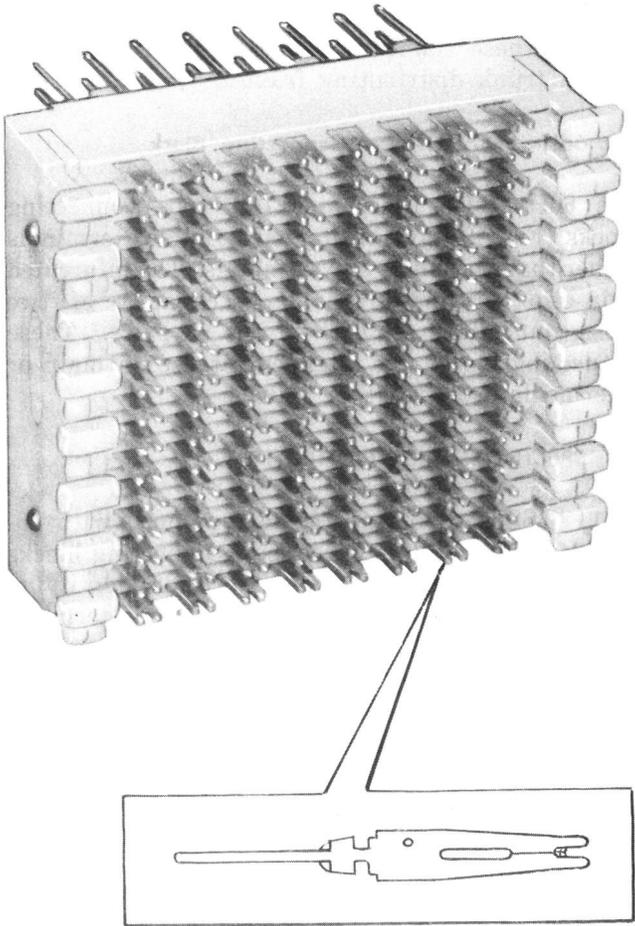


Fig. 1—78A1 Connecting Block

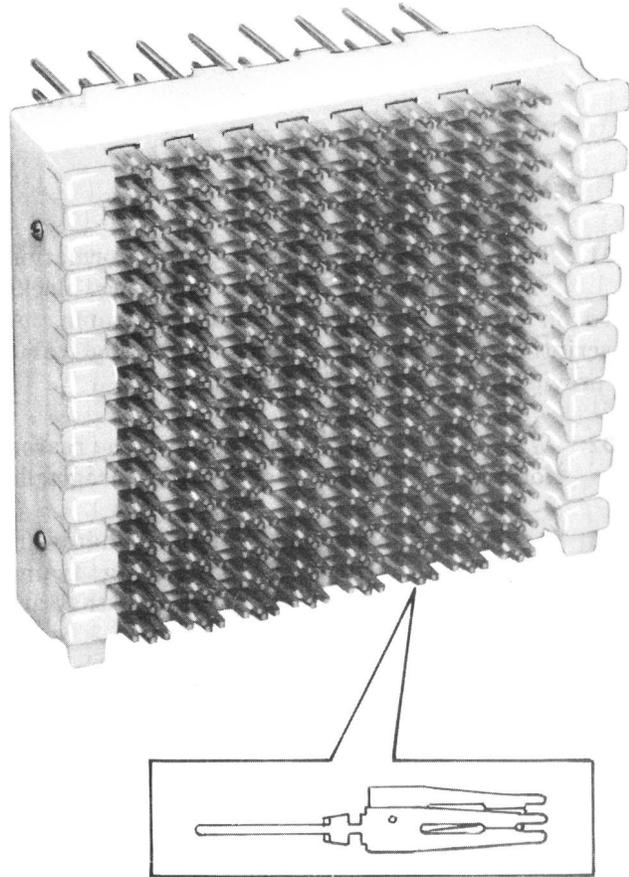
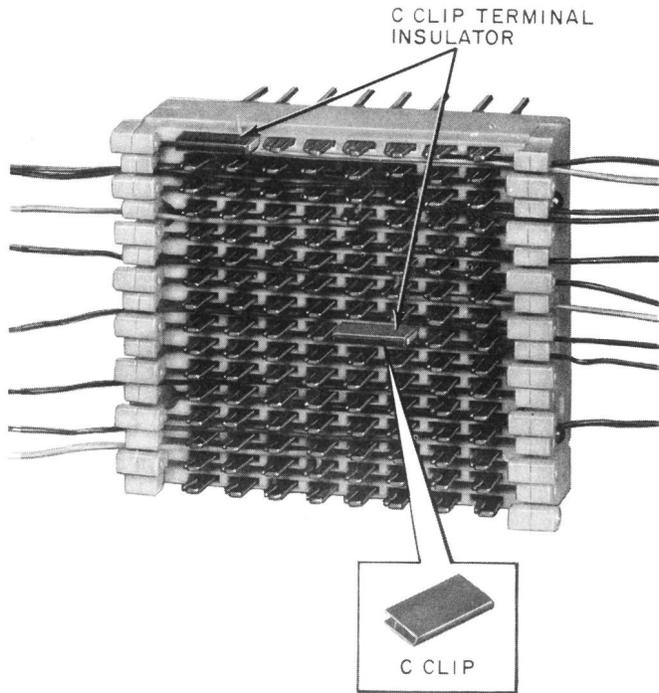
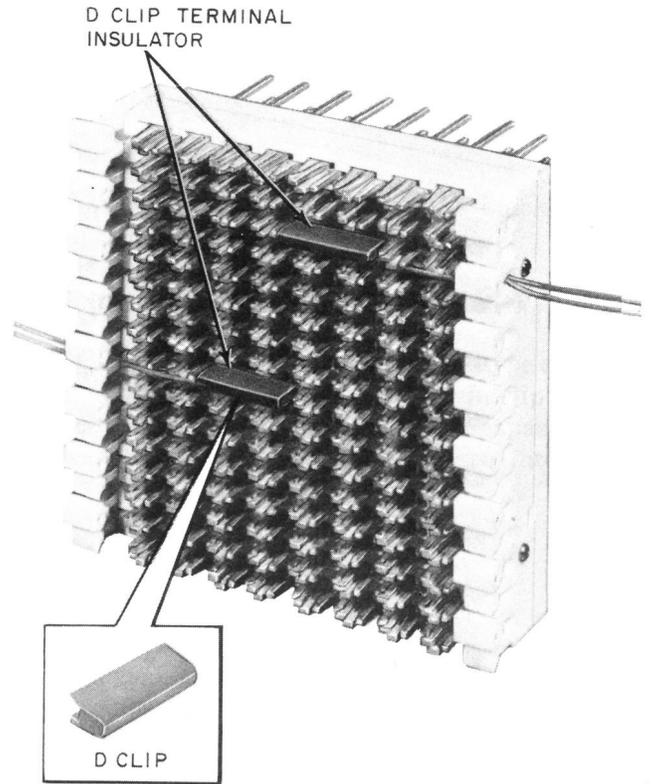


Fig. 2—78B1 Connecting Block



**Fig. 3—Protection of Terminal Punchings—Special Service Lines—C Clip-Terminal Insulator as Used on 66G or 78A1 Connecting Block**



**Fig. 4—Protection of Terminal Punchings—Special Service Lines—D Clip-Terminal Insulator as Used on 66H or 78B1 Connecting Block**