

MARKER CONNECTOR ADDITIONS

FRAME AND UNITS

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1. GENERAL

1.1 This section covers the transition operations required when originating terminating or tandem marker connector frames or units are added to a No. 1 cross-bar or tandem office respectively.

1.2 Marker connector frame additions, whether they be originating, terminating or tandem are similar and consist of two main transition operations; connecting multiple and revising the choice and chain circuits for even traffic distribution.

1.3 Listed below for reference information, are the various circuit drawing numbers.

Orig. Marker Conn. SD-25035-01  
Term. Marker Conn. SD-25036-01  
Tandem Marker Conn. SD-25488-01

1.4 Figure 1 is a summary of the items involved in a marker connector transition. A check of this figure will aid the installer to determine where the transition is to be performed, and what equipment is required to be out-of-service.

2. PLANNING WORK SHEETS

2.1 Two work sheets, shown as Figures 3 and 4, are provided for connector choice and chain changes.

ID-484 - Originating or Tandem Transitions  
ID-488 - Terminating Transitions

2.11 When the ID-484, work sheet, is used for tandem offices, the (MP) relay is substituted for the (DS) relay on the sheet.

2.2 Strapping arrangement changes are included in the marker connector job specifications. However, T drawings which include the method of determining the various strapping arrangements are also furnished to the installer. The numbers of these drawings are as follows:

Originating Connectors - T-25035-15,16  
Terminating Connectors - T-25036-14  
Tandem Connectors - T-25488-15

2.3 To obtain a working schematic of the choice and chain circuits applicable to the particular job, copy the strapping arrangements as specified in the associated connector specification using symbols or appropriate colors for old and new chain and choice connections.

If This Equipment Is Added	Check These Items For Transition		
	Item	Location	Notes
Marker Connector Frame	Marker Mult between Frames	Each Connector Frame	Remove Marker from Service
	Marker Choice Leads	Each Connector Affected	Remove Connector from Service
	Marker Chain Leads	Each Connector Thru All Frames	Remove Marker from Service. Block Opr. DA1 & DA2
Marker Connector Unit	Vertical Marker Mult	At added connector	Remove Marker from Service
	Marker Choice Leads	Each Connector Affected	Remove Connector from Service
	Marker Chain Leads	Each Connector Thru All Frames	Remove Marker from service. Block opr. DA1 & DA2
Marker	Horizontal Straps on Mkr ML Relays	Each Connector on Each Connector Frame	Remove Connector From Service
	Marker Choice Leads	Each Connector Affected	Remove Connector from Service
	Marker Chain Leads	Each Connector Thru All Frames	
Sender	Horizontal Straps on Sender MC Relays	Each Connector Affected	Remove Connector from Service
	SS or SP Relay Chain	Each Connector Affected	Remove Connector from Service

FIG. 1 ITEMS ASSOCIATED WITH ORIGINATING MARKER CONNECTOR TRANSITION (Par. 1.4)

3. PRELIMINARY WORK

- 3.1 Erect, cable, wire and test the new marker connector frame or unit.
- 3.2 When adding a frame, connect the marker multiple cables at the new frame, form the cable ends at the existing frames but leave unconnected.
- 3.3 Connect the alarm relay and terminal strip wiring at the new frame, fan the cable ends at the existing frames but leave unconnected.
- 3.4 Install the choice and chain straps A to B, E to D, H to G and J to K on the new frame.

NOTE: In most cases where a new connector frame is added, the choice and chain strapping is installed by the shop and all that is needed is a verification of the correct strapping required.

4. TRANSITION WORK

- 4.1 Make busy one marker at a time and connect the marker multiple at the existing frames. In the case of an added connector, connect the vertical multiple for each marker at the added connector unit. Test and return to service.
- 4.2 Make busy one marker connector at a time and rearrange the A to B choice straps. Return the marker connector to service.

No arrows are shown due to extensive changes.

4.3 Make busy one marker at a time and block operated the DA1 & DA2 relays. Rearrange the E to D, H to G, and J to K chains throughout all the existing marker connectors. Remove the blocks and return the marker to service.

5. CLEAN-UP WORK

5.1 The clean-up work consists of removing or otherwise disposing of the unused cable or wire disconnected from the existing frames.

6. SEQUENCE OF OPERATIONS

6.1 Figure 2 provides a summary of transition operations involved, when adding a terminating marker connector frame or unit in an existing office, and the sequence in which they should be performed.

Operation	Sequence			
Preliminary Work	—			
Connect Marker Mult		—		
Rearrange Choice Straps A to B			—	
Rearrange Chain Straps E to D, H to G, J to K				—

FIG. 2 SEQUENCE OF OPERATIONS  
(Par. 6.1)

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Replaces Sections 15A, 15B, 49A, 49B  
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Figures 3 and 4 Attached on Pages 3 and 4.

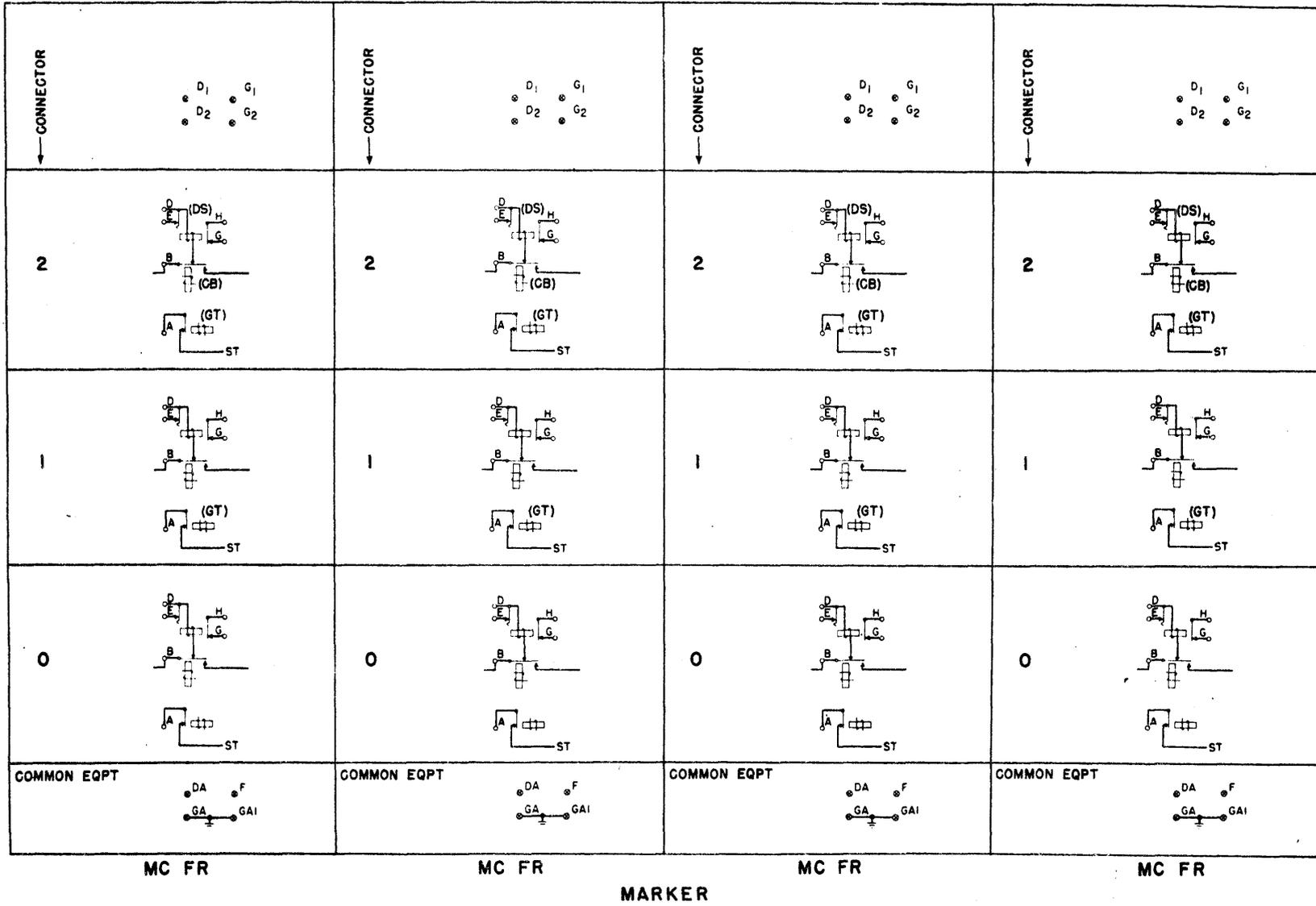


FIG. 3 WORK SHEET FOR ORIGINATING AND TANDEM MARKER CONNECTOR CHOICE AND CHAIN

ID-488 (5-54)

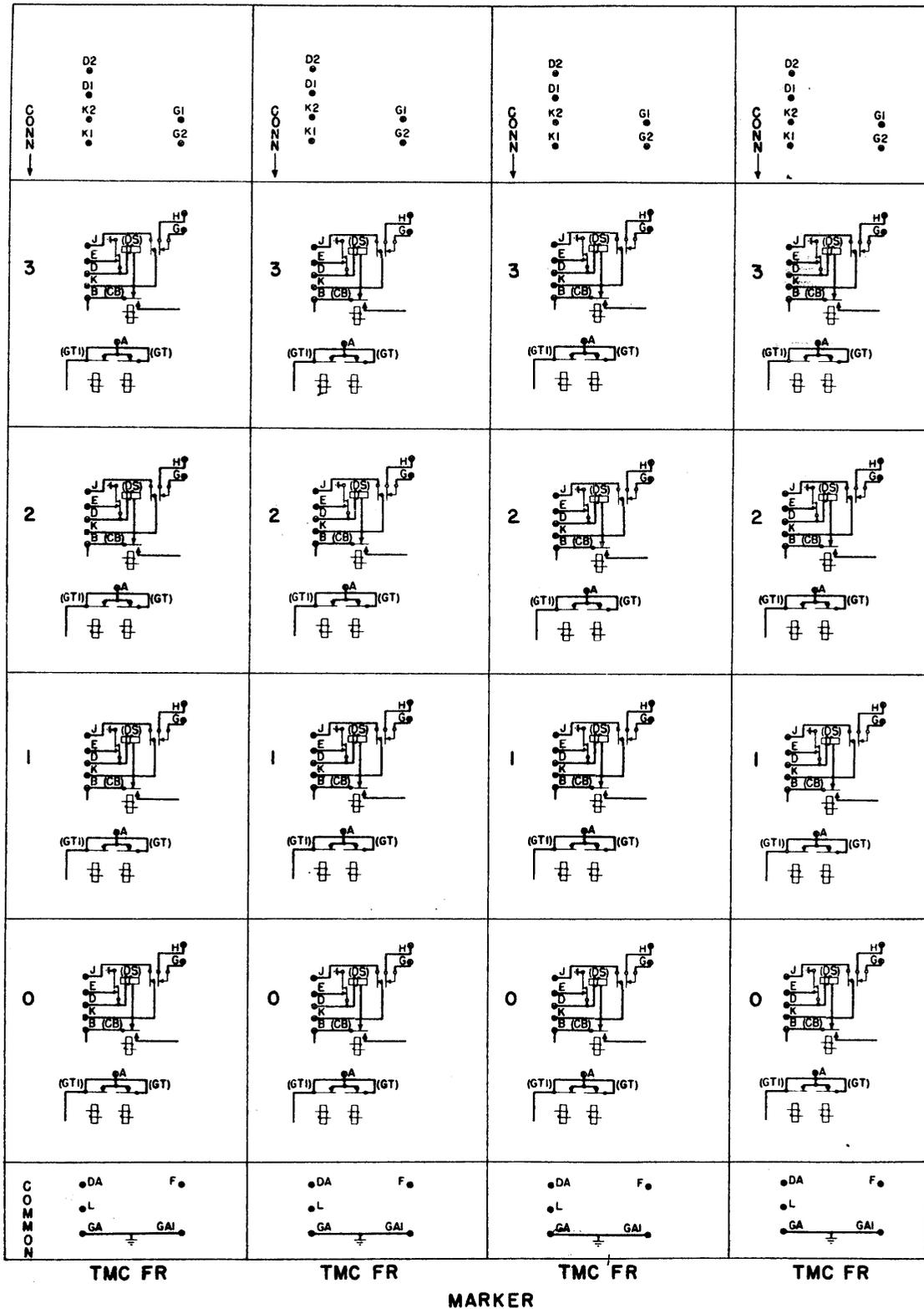


FIG. 4 WORK SHEET FOR TERMINATING MARKER CONNECTOR CHOICE AND CHAIN