CONNECTORS/PROTECTOR UNITS 302 TYPE

CONTENTS

1. GENERAL
1.1 Scope of Section
1.2 Description
2. R-4364 L2 TOOL DESCRIPTION
3. ASSEMBLY INFORMATION
3.1 Mounting Procedure
3.2 Fanning Procedure
3.3 Forming Procedure
4. TERMINAL REPLACEMENT

1. GENERAL

1.1 Scope of Section

1.1.1 This section specifies the fanning methods required when using the R-4364 L2 Fanning Detail for forming 806A Switchboard Cables on 302 Type Connector Blocks that are mounted on a ESS Protector Frame.

CAUTION: WHEN WIRING 302 TYPE CONNECTOR CABLES TERMINATING ON A "COSMIC" DISTRIBUTING FRAME, THE METHODS SPECIFIED IN HANDBOOK 9, SECTION 127 SHOULD BE USED.

1.1.2 Requirements and methods for the R-4411 Pneumatic Banding Tool can be found in Section 205 of this handbook.

1.2 Description

1.2.1 The 302 Connector is a plastic housing approximately 16-1/4" long that will accept either 3, 4, or 5 type protector units which provides protection to the internal central office equipment.

1.2.2 This connector is equipped with 100 groups of five pin-grip type terminals. Four of these terminals are gold plated and provides contact for the tip and ring connections. The fifth terminal is solder plated and provides a ground connection. The terminal field at the rear of the connector has solderless wrap terminals. (See Table A.)

1.2.3 The 302A1 and 302B1 Connectors do not require additional mounting hardware. However, to modify the verticals of a double sided conventional protector for installing other 302 codes, the following adapters are required per vertical:

a. 14'-6" Vertical - 176A Adapters consisting of (3) aluminum bars.

b. 11' or 12'-6" Vertical - 176B Adapter consisting of (2) aluminum bars.

NOTE: Adapters are not required for mounting on the low profile double sided protector frame.

1.3 General Precautions to be taken against personal injury, equipment damage, and service interruptions are covered in Handbook 0 and are to be observed at all times as they apply to the operations being performed. Specific operations, when applicable, are included in this section with the appropriate method.

2. R-4364 L2 TOOL DESCRIPTION

2.1 The R-4364 L2 Fanning Detail consists of an aluminum fanning strip with 3 vertical rows of holes, 25 holes per row. Riveted to the fanning strip is an upper and lower mounted bracket with its associated retaining springs.

2.2 The R-4364 L2 Fanning Detail is extended so that its bottom portion will project out away from the frame, thus allowing additional working area when the 302 Type Connectors and cable stubs are mounted in place. (See Figure 1.)

2.3 The R-4364 L2 Fanning Detail can be used to fan and form the switchboard cable before or after the mounting of the 302 Type Connectors and their associated cable stubs.

3. ASSEMBLY INFORMATION

3.1 Mounting Procedure

3.1.1 Position the detail so that it is in direct line with the associated connecting block.

3.1.2 The lower mounting bracket is then inserted or snapped onto the two cable horns that are located on the frame.

3.1.3 The upper mounting bracket is inserted onto the channel assembly. Refer to Figure 1.

3.2 Fanning Procedure

3.2.1 The first 20 pair cable is fanned through slots marked 1-20, with a tip and ring pair in each slot.

3.2.2 The second 20 pair cable is fanned according to the following:

3.2.2.1 The first 5 pair are fanned through slots 21-25.

3.2.2.2 The last 15 pair are fanned through slots 26-40.

3.2.3 The third 20 pair cable is fanned according to the following:

3.2.3.1 The first 10 pairs are fanned through slots 41-50.

3.2.3.2 The last 10 pair are fanned through slots 51-60.

3.2.4 The fourth 20 pair cable is fanned according to the following:

3.2.4.1 The first 15 pair are fanned through slots 61-75.

3.2.4.2 The last 5 pair are fanned through slots 76-80.

3.2.5 The fifth 20 pair cable is fanned through slots marked 81-100. Refer to Figure 2.

3.3 Forming Procedure

3.3.1 Sew with a winding stitch, or band with nylon ties and R-4411 Pneumatic Banding Tool, to form the three legs as shown on ED1A194-11.

3.3.2 When removing the detail, exercise care when sliding the form out of the slots.

4. TERMINAL REPLACEMENT

4.1 The tip, ring, ground, and test terminals used in the 302 Type Connectors are identical to those used in the 308 Type Connectors. Therefore, refer to Section 128, Paragraphs 4.1 through 4.4 and Figure 1 of this handbook for terminal replacement procedures.

Engineering Planning Manager
(Installation)

ATTACHMENTS:
Figures 1 and 2.
Table A.

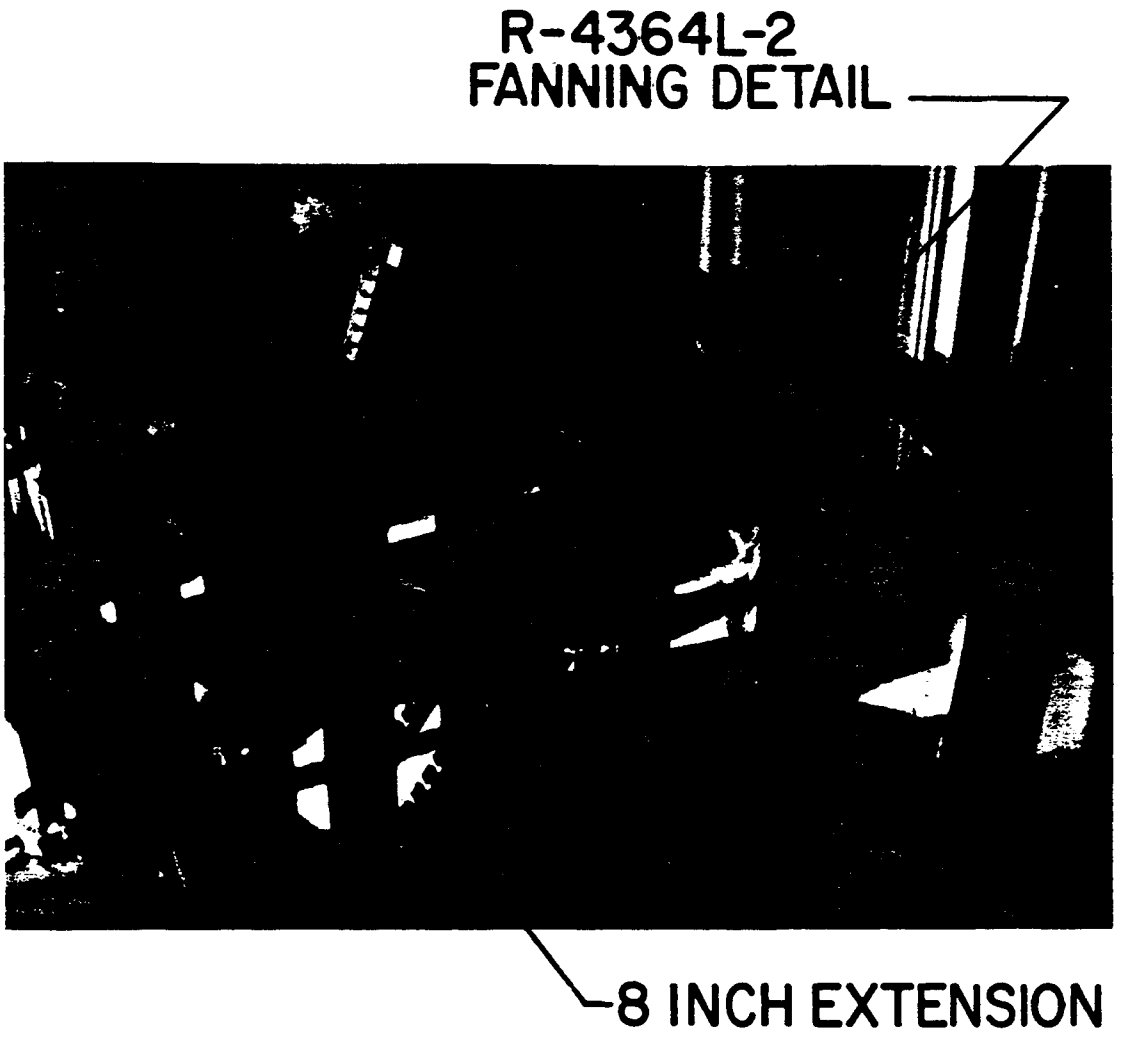
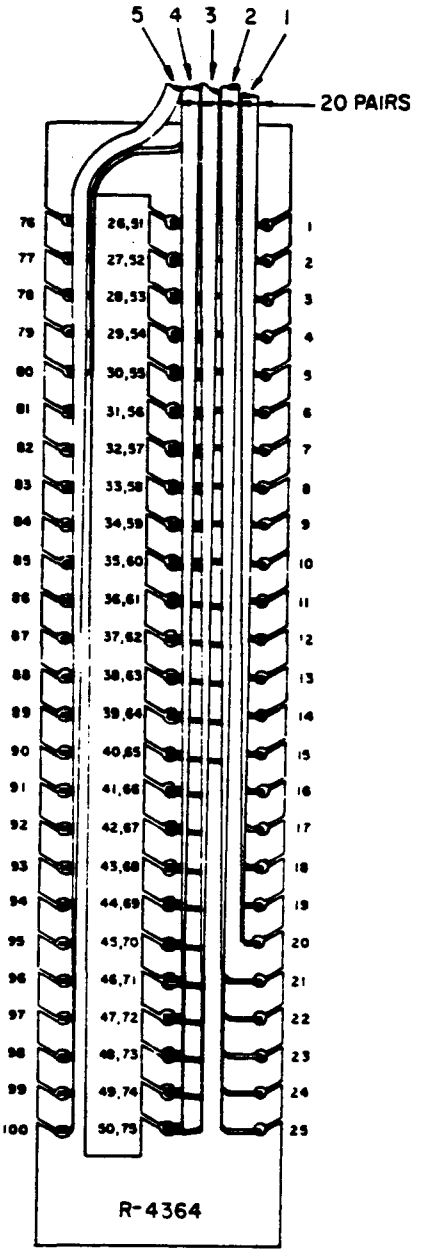


FIG. 1 R-4364 L2 FORMING DETAIL
(PAR. 2.2 and 3.13)



RP-0093 RM-1

FIG. 2 FANNING PROCEDURE FOR R-4364 L1 AND R-4364 L2 DETAIL (PAR. 3.25)

302 CODE	PAIRS	ACCEPTS PROTECTORS	LGTH INCHES	FRAME	STUB GAUGE	STUB DIRECTION
A1-100	100	3,4,&5 type	16.20	MPF	24	DOWN
B1-100					22	
A3-100				DSPF OR LPDSPF	24	
B3-100					22	
C3-100					24	UP
D3-100					22	
E1-100				MPF	NONE	
E3-100				DSPF		

MPF - Modular Protector Frame
DSPF - Double Sided Protector Frame
LPDSPF - Low Profile Double Sided Protector Frame

NOTE: A3, B3, C3, D3, and E3 codes are equipped with 86A hinged brackets for access to rear of connector.

302 TYPE CONNECTOR GENERAL DESCRIPTION (PAR. 1.22)

TABLE A