

Figure 1

**Table of Contents**

1. General .....	1
2. Installation Steps .....	2
3. Step 1—Temporary Mounting.....	2
4. Step 2—Installing Cable Stub .....	3
5. Step 5—Final Mounting.....	4
6. Step 3— Grounding .....	4
7. Step 4—Splicing Cable Stub .....	5
8. Step 6—Marking and Jumpering .....	5
9. Step 7—Inserting Protector Modules.....	6
10. Step 8—Testing.....	7

**1. General**

**1.1** This document is a basic guide for installing the C(G)391 High Density Connector. It applies only to C(G)-391 Connectors that do not have a cable stub, are mounted on right-hand side of the frame vertical mounting bar, and are frame grounded.

**1.2** The C(G)-391 central office connector has been designed to meet or exceed Bellcore Specification TR-EOP-000164.

## 2. Installation Steps

Installation consists of eight sequential steps:

1. Temporary Mounting
2. Installing Cable Stub
3. Final Mounting
4. Grounding
5. Splicing Cable Stub
6. Marking and Jumpering
7. Inserting Protector Units
8. Testing

### 3. Step 1—Temporary Mounting

The C(G)-391 Connector comes with a temporary field stubbing kit that provides working access for field installation of the cable stub (Figure 2).

**3.1** Position field stubbing bracket on left side of C(G)-391 Connector mounting bracket. Insert screw (provided with field stubbing bracket) through slot in C(G)-391 Connector mounting bracket and hole in field stubbing bracket.

**3.2** Insert two no.12 screws (provided with C(G)-391 mounting bracket) through slots in the field stubbing bracket. Mount field stubbing bracket to right-hand side of frame vertical mounting bar.

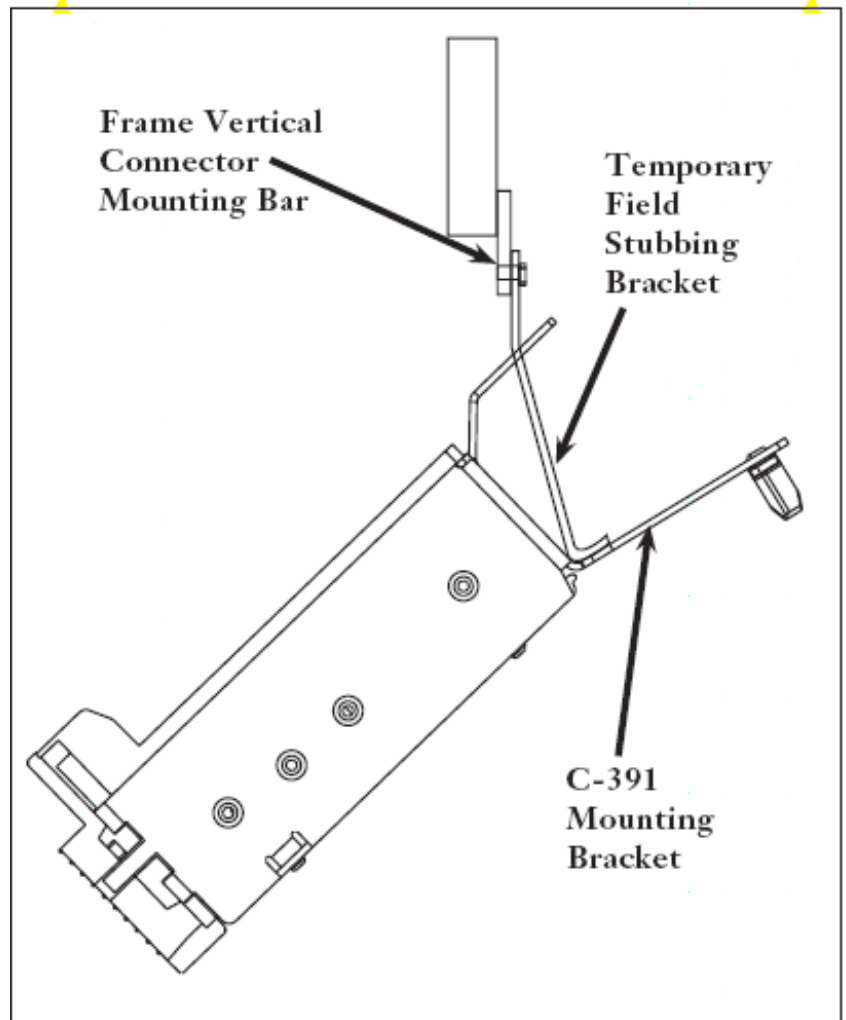


Figure 2

**4. Step 2—Installing Cable Stub**

Follow local practices for installing the cable stub.

**4.1** Remove back cover from C(G)-391 connector (Figure 3).

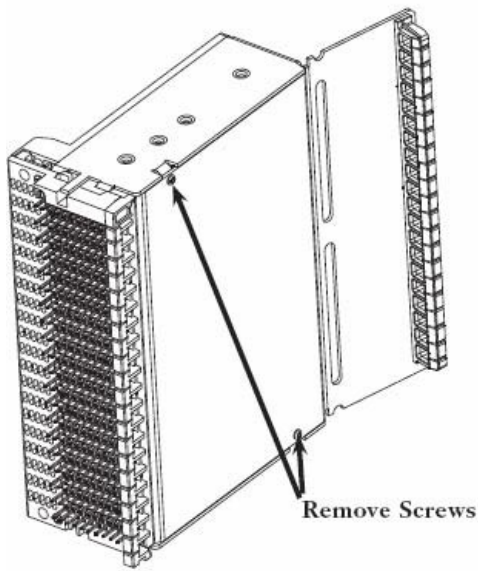


Figure 3

**4.2** Feed 10-pair group of cable stub wires through each of the ten vertical fanning holes (Figure 4).

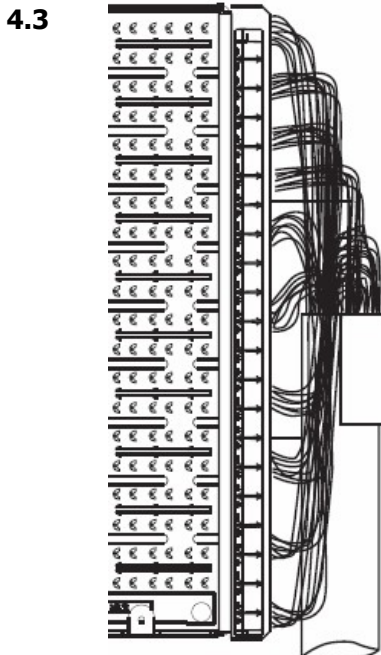


Figure 4

Dress each 10-pair group of wires to the appropriate row of OSP terminals (Figure 5).

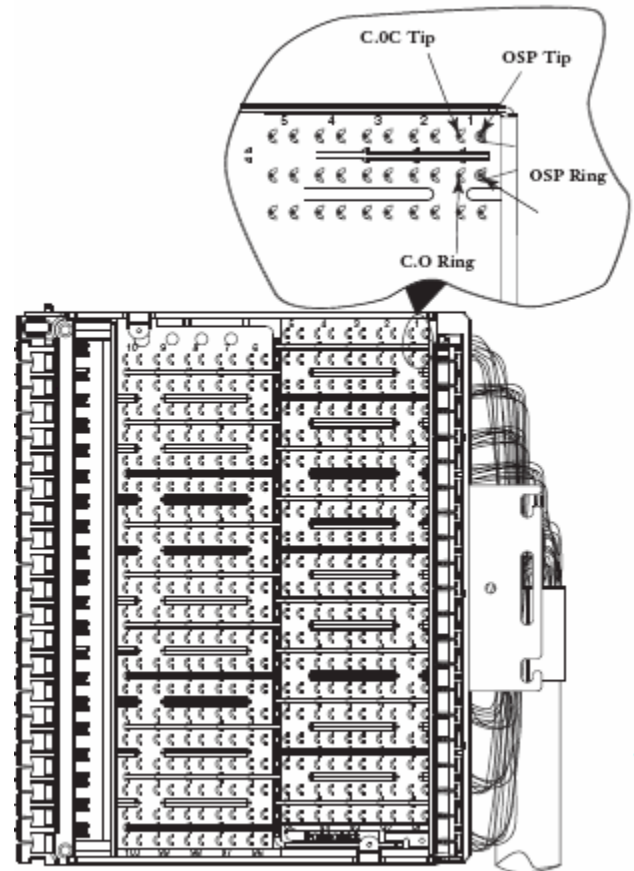


Figure 5

**4.4** Wire-wrap each pair of wires to respective terminal pins.

**4.5** Replace back cover after all OSP terminal connections have been made.

**5. Step 5—Final Mounting**

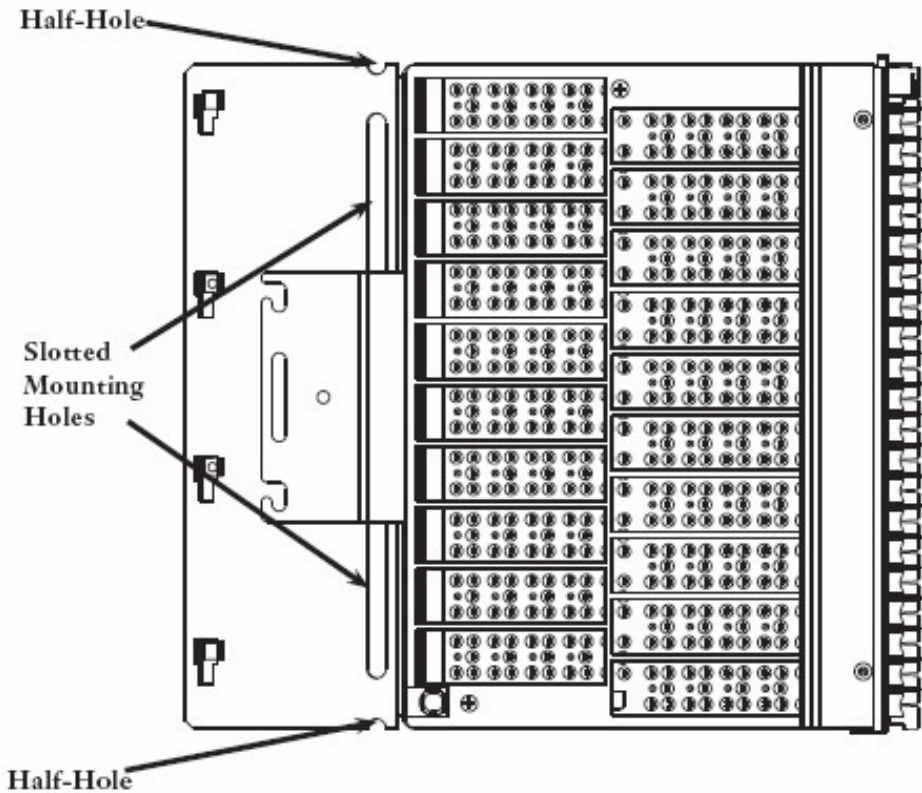
**5.1** After cable stub installation (Step 2), remove field stubbing bracket.

**5.2** The C(G)-391 Connector mounting bracket has two slotted mounting holes and a half-hole at each end. Insert no.12 screws (provided) through one mounting hole and one half-hole, or through two slotted mounting holes, and secure the C(G)-391 mounting bracket to the left-hand side of frame vertical mounting bar (Figure 6).

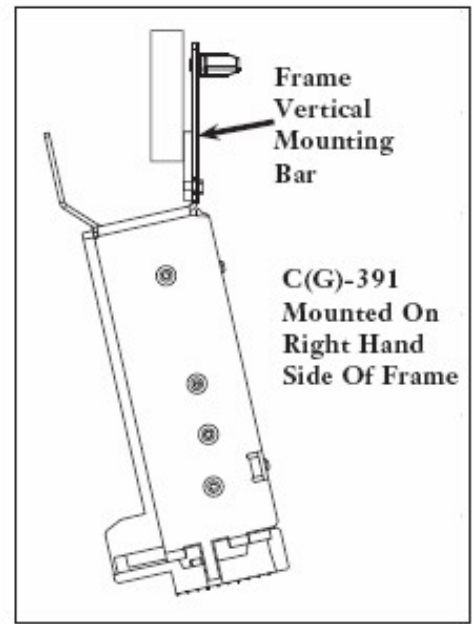
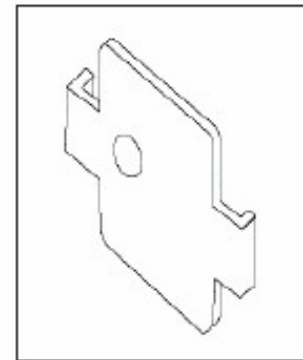
**NOTE:** Mounting hole patterns may differ at the top and bottom of some tall, conventional main distributing frames' vertical mounting bars. A special mounting bracket may be used to facilitate mounting the C(G)-391 Connector in these applications (Figure 6 inset).

**6. Step 3— Grounding**

The C(G)-391 connector is designed for frame grounding, Follow local practices and procedures to complete grounding.



Special  
Mounting  
Bracket



Overhead View

Figure 6

**7. Step 4—Splicing Cable Stub**

Cable stub wiring uses standard cable wire color codes. Match stub pairs and follow local practices for splicing.

**8. Step 6—Marking and Jumpering**

Jumper terminals consist of 20 rows of wire-wrap terminal pins. Each row of five terminals is identified by a number for easy pair identification (Figure 7).

**8.1** Use appropriate stenciling kit to mark cable and pair numbers. Mark cable ID near "CA" area at top of connector; mark ID near "PR" area at bottom of connector.

**8.2** Insert two pairs of jumper wires into secondary fanning strip slot (pairs one and two in top slot).

**8.3** Feed jumper wires into primary fanning strip. Bring first jumper wire pair forward, and wire wrap jumper wires to terminal pins.

**8.4** Dress each wire along bottom of appropriate row of terminal pins.

**8.5** Repeat steps above for remaining jumper pairs.

**8.6** Dress wire slack to rear of C(G)-391 connector. Jumper pairs should run neatly from terminal field across connector backplane.

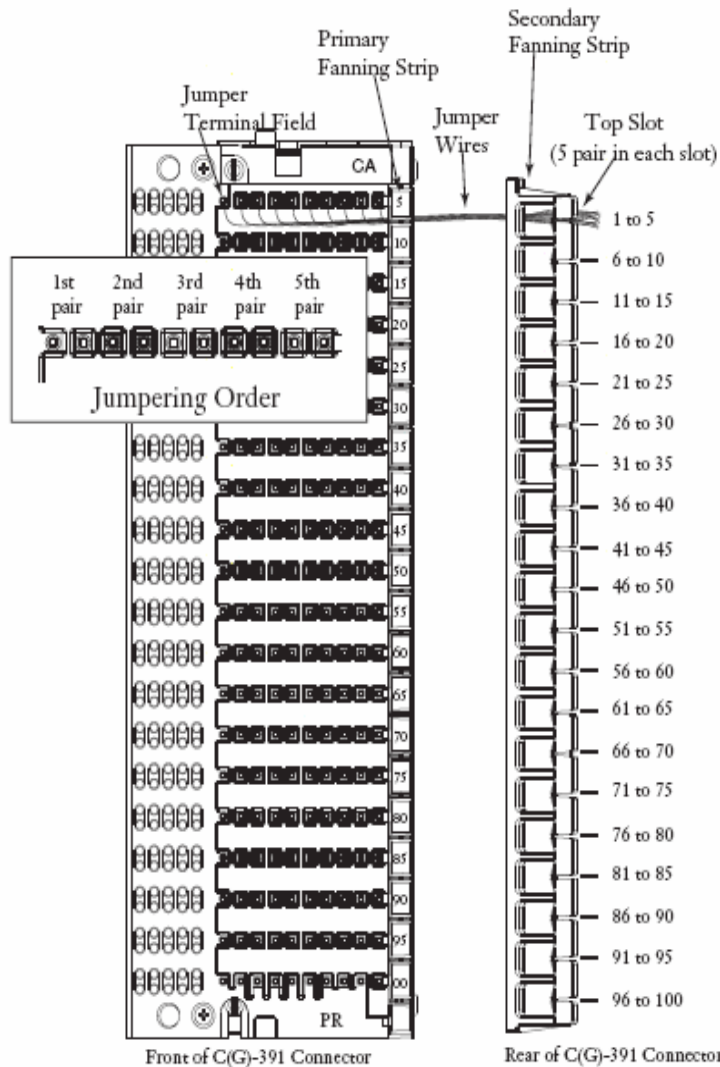


Figure 7

### 9. Step 7—Inserting Protector Modules

The protector field is located on the left side of the C(G)-391 Connector. Numbers at the top and right side of the protector field identify wire pairs. The protector field is keyed so that protector modules can only be installed one way (Figure 8).

**NOTE:** Use appropriate test set to check protector modules for tip and ring continuity and ground.

**9.1** Insert protector modules to “detent” position during installation (Figure 8 inset). Detent position protects OSP pairs, but keeps OSP pairs disconnected from Central Office (CO) equipment.

**9.2** After installation steps have been completed, push each protector unit into its fully inserted position. This connects CO pairs to OSP pairs.

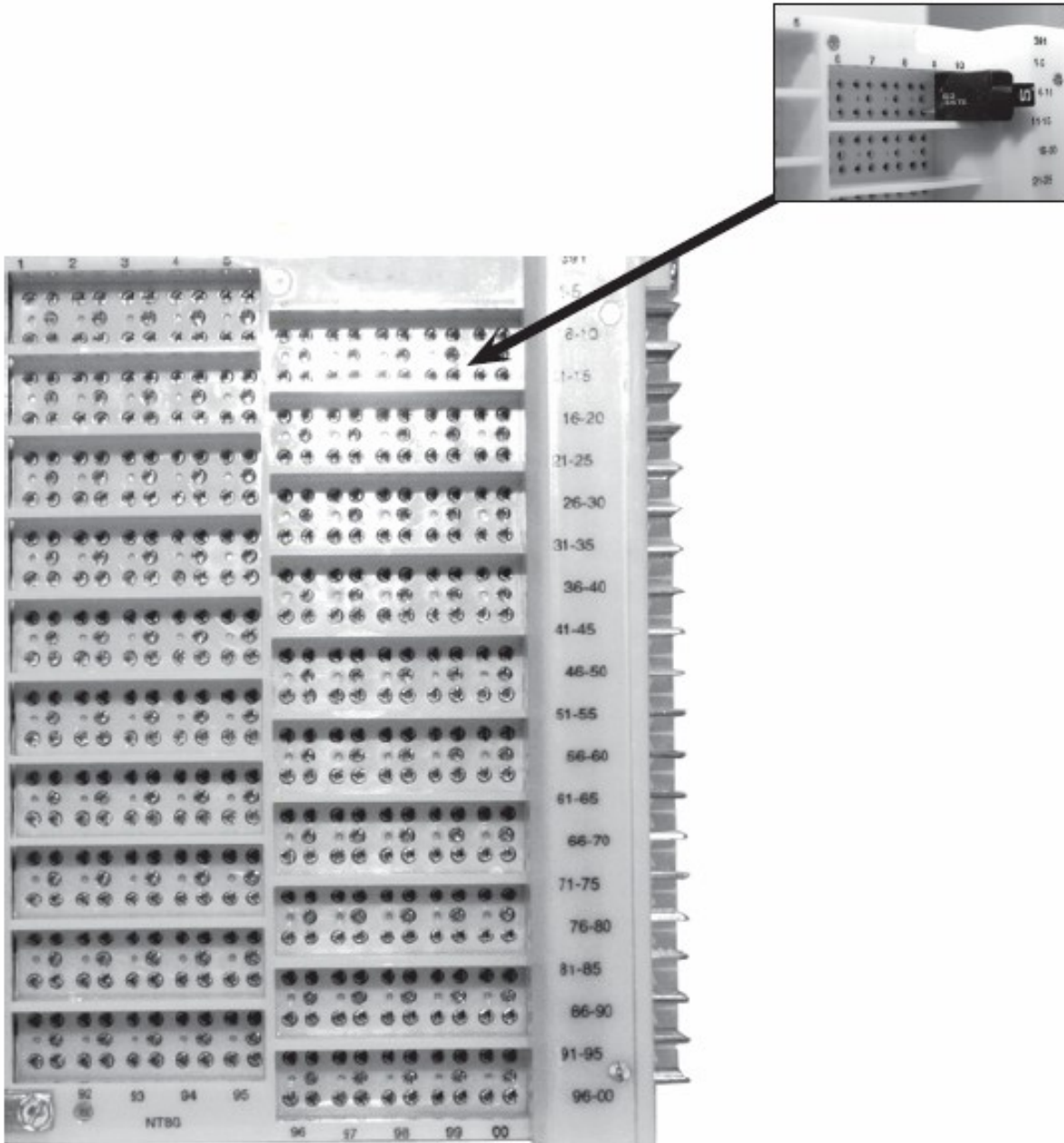
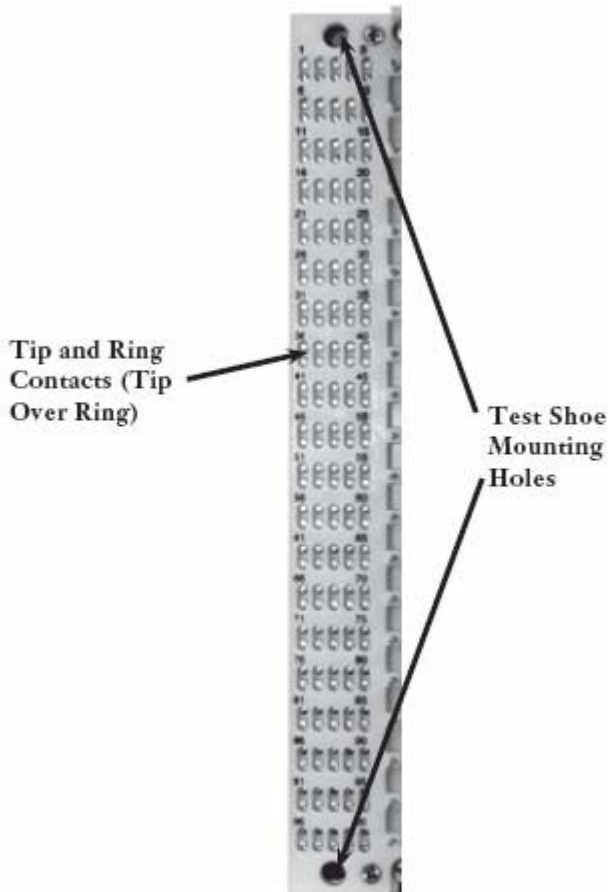


Figure 8

**10. Step 8—Testing**



The C(G)-391 test field consists of 100 pairs of gold-plated contacts. Test points are connected directly to OSP cable with separate connections for tip and ring of each pair. Test field terminals are numbered to show beginning and end of each row of five terminals (Figure 9).

- 1,5
- 6,10
- 11,15 (through...)
- 96,00 (100)

Use a single-pair test cord test connector to test connections.

**NOTE:** *The C(G)-391 is also designed to be used with AT&T model P2FM single-pair test cord, and AT-8987 T-test connector.*

Figure 9