



tii network technologies

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INSTALLATION NOTE

TII 347 Series
Station Protectors
TII P/N: 92223701
11/07 Rev B



TII 347-07-2-1

1. GENERAL

1.1 The TII 347 Series Station Protectors consist of one or two Protector Modules in a top hinged enclosure with integral ground stud (See Figure 1).

1.2 The TII 347 is available with a variety of protector modules with standard binding post termination or sealed IDC termination.

1.3 The plastic base is molded with knock out holes for mounting. A captive nylon insulated nut may be provided to give a degree of tamper proofing, and for easy installation and removal as an option (See Figure 1).

1.4 A flexible grommet is located in the center of the base to provide a seal for Telco cable, customer cable and grounding conductor wiring. (See Figure 1.)

National Electric Code Requirement

The protector shall be installed per National Electric Code ANSI/NFPA 70, Article 800, Section C, and shall meet all applicable local safety codes.

2. WARRANTY

2.1 See TII Warranty. If this unit fails during the warranty period, the factory should be requested to authorize return. Return the unit prepaid. Units that fail due to normal wear or abuse should be discarded.

3. INSTALLATION

3.1 Precautions

3.1.1 Mount the station protector so as to minimize the possibility of dirt or moisture getting into the protector.

3.1.2 Station protectors mounted side-by-side or end-to-end should be placed so covers can be easily removed.

3.1.3 Where protection for multiple services is required, it is recommended that a protected building terminal in an interior terminal box be installed in place of station protectors.

3.2 Mounting

3.2.1 Mount the station protector vertically on a flat surface using appropriate hardware (the length of the mounting screws should allow for 1/8" of length within the protector).

4. WIRING

4.1 Ground

4.1.1 Insert the grounding conductor, the customer side cable and the Telco side cable through the grommet in the base of the protector (See Figure 1).

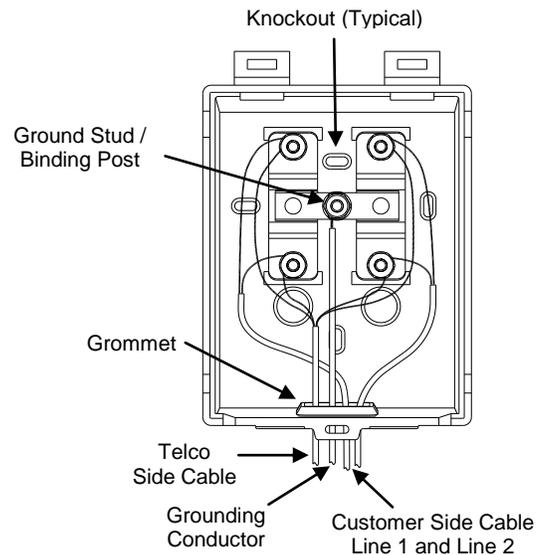


Figure 1

4.1.2 Terminate one end of the grounding conductor (No. 6 AWG) on the ground stud / binding post and the other end to an appropriate ground source. (See Figure 1.)

4.2 STATION PROTECTOR WIRING

(If equipped with binding post protection)

4.2.1 For binding post termination type protectors; terminate the Customer Side cable in between the bottom set of washer and bottom nut of the appropriate stud (one conductor to Tip and one to Ring) and tighten down. (See Figure 2.)

4.2.2 Terminate the Telco Side Cable under the top set of washers and the top nut of the appropriate stud (one conductor to Tip and one to Ring) and tighten down. (See Figure 2).

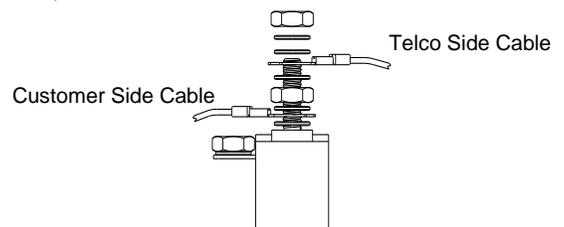


Figure 2

4.3 STATION PROTECTOR WIRING

(If equipped with angle driver module)

4.3.1 For sealed IDC termination type protectors; terminate the Telco Side Cable by loosening the drive screw and pulling up the driver and insert un-stripped Telco Side Cable in the bottom ports (one conductor to Tip 'T' and one to Ring 'R') until they are seated at the bottom of the ports. (See Figure 3.)

4.3.2 Insert un-stripped Customer Side Cable in the top ports (one conductor to Tip 'T' and one to Ring 'R') until they are seated at the bottom of the ports. (See Figure 3.)

4.3.3 Re-tighten the drive screw bring the driver down to the protector base. (See Figure 3.)

4.3.4 Set the Customer Side Cables into the strain relief cutouts on the sides of the Customer Side Cable ports. (See Figure 3.)

4.3.5 Loop back unused station wire conductors and coil around the station wire jacket or store in such a manner as to prevent them from coming in contact with protector terminals or bare wires.

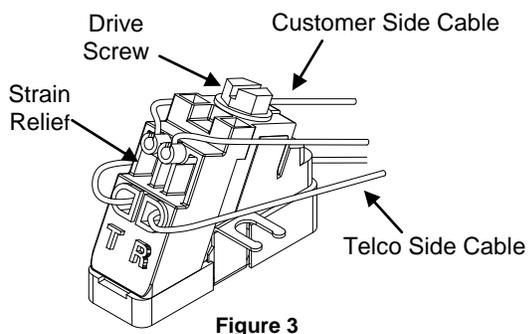


Figure 3

Testing Subscriber Connections

5.2.1 Loosen drive screw so driver is in the full upright position.

5.2.2 Remove Telco wires from lower ports of driver.

5.2.3 Tighten drive screw so driver is in the full down position.

5.2.4 With Driver in the fully closed position, insert test clips into tip/ring test port access holes located at top of driver. Perform customary tests.

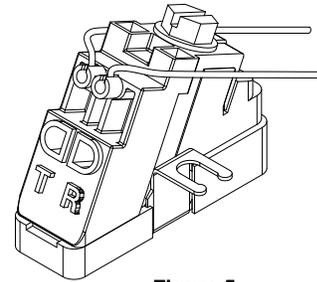


Figure 5

5. Angle Driver Testing

Upper and Lower Port Connected

5.1.1 Feeder and subscriber wires must be segregated between the upper and lower ports to facilitate isolation testing (see Figure 4).

5.1.2 With Driver in the fully closed position, insert test clips into tip/ring test port access holes located at top of driver. Perform customary tests.

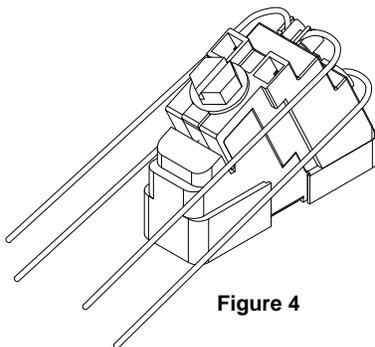


Figure 4