

**INDOOR-OUT DOOR BOOTH**

**1. GENERAL**

1.001 This addendum supplements Section 508-300-100, Issue 1.

1.002 This addendum is issued to change the installation, reinstallation, reconnection, and repair procedure for the inspection and correction of station protection.

1.003 This addendum requires that all outdoor booths be equipped with the TII-316 arrester if lightning experience has occurred. This addendum replaces paragraphs 2.23, 4.34, and 4.35.

**2. WIRING**

2.23 Electrical protection (for telephone line) is provided by a 123A1A protector. This protector shall be bridged with a TII-316 gas tube arrester when the line is susceptible to lightning.

The protector and bridged gas tube must be adequately grounded. (See paragraph 4.34 and 4.35). In all cases where craft employees visit a booth for any reason, such as new installation, reinstallation, reconnection, and repair or routine maintenance activity, the carbon blocks shall be checked and replaced if burned, cracked, or show evidence of burns from power or lightning. Where carbons are burned, a TII-316 gas tube shall be installed to prevent future carbon block failures.

NOTE: Gas tube arresters will eliminate failures of carbon blocks if an adequate ground is used and all connections on the protector are tight.

**4. PROTECTOR GROUND**

4.34 Ensure that the ground terminal of the station protector is connected to the booth with an adequate bonding wire. (See Table B).

**TABLE B**  
**GROUND WIRE CAPACITY**

Ground Wire Size	No. of Protected Circuits	
	Fuseless	Fused
No. 14	1	3
No. 12	2	6
No. 10	6	7
No. 6	7 or More	8 or More

NOTE: The ground wire between protectors shall be the same size as the ground wire between the protector and the grounding electrode.

When the initial protector ground wire is installed, it should be of sufficient size to provide protection for any future protectors installed (Table B).

When a booth is visited for any reason and a bonding or ground wire is found to be broken loose, or damaged, it shall be replaced with an approved No. 14 gauge wire.

4.35 In multiple installations where the booth is visited for any reason, ensure that booths are bonded together for grounding purposes to ensure protection to life and plant.

CAUTION: Before connecting the protector ground wire, test the power company ground rod, ground wire, cabinet, meter box, etc., with a B Voltage Tester prescribed in Section

**ADDENDUM 508-300-100MS**

620-105-010. The voltage test shall be as prescribed for vertical power ground wires or metallic conduit.