

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G83.810.1**  
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**C SPLICER'S LAMP**

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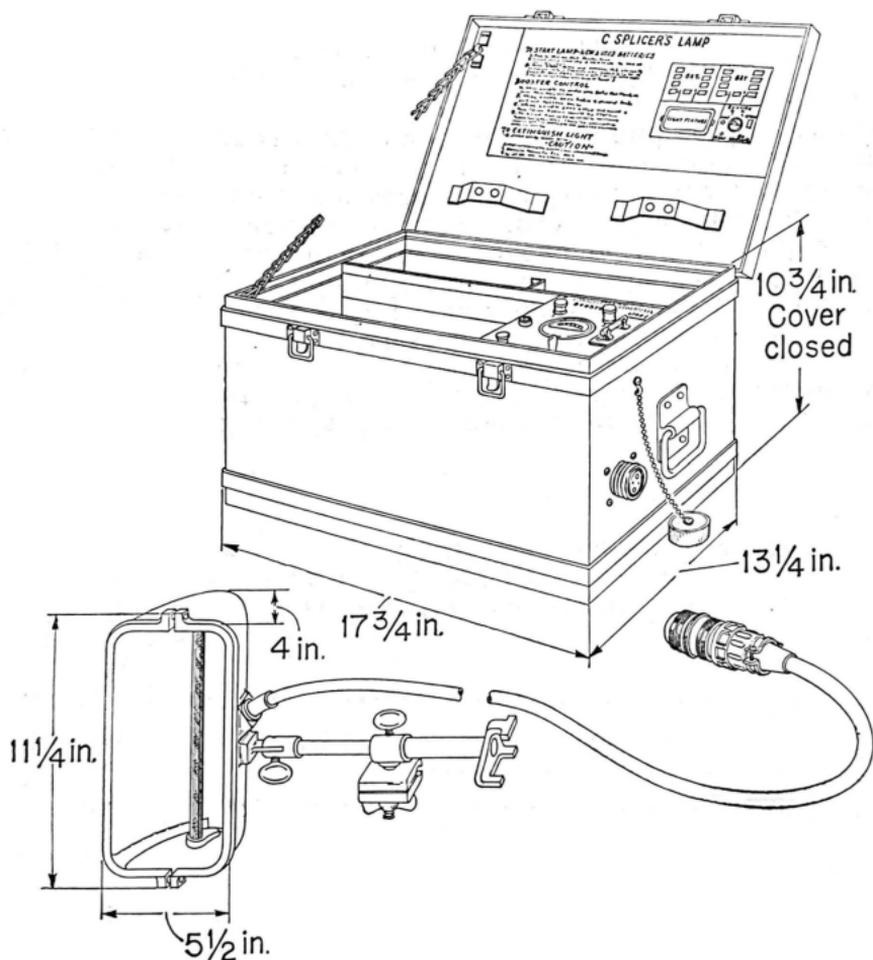
**1. GENERAL**

1.01 This section covers the description, operation and maintenance of the C Splicer's Lamp. It is reissued to include minor changes in design and in the operating instructions.

**2. DESCRIPTION**

2.01 The C Splicer's Lamp consists of a 6-watt tubular fluorescent bulb enclosed in a gasketed aluminum reflector with plastic lens, a 25-foot rubber insulated cord with moisture resistant plug, a telescoping bracket and a waterproof steel carrying case. A swivel connection between the reflector and bracket facilitates directing the light to the desired position and a hook and clamp at the free end permit attaching the lamp to a cable rack or to aerial strand. The steel case has three compartments; one serves as a housing for two 45-volt dry batteries, the second for a spare bulb and the third provides space for storing the light fixture and cord. A control

panel inside the case has a starting switch, a polarity reversing switch, a fuse, a milliammeter for determining the condition of the dry batteries, two switches for cutting out current limiting resistors as the batteries discharge and a spare fuse and holder. The case has an external moisture resistant receptacle for making the lamp connection.



### 3. OPERATION

3.01 The operating instructions for the C Splicer's Lamp are shown in the instruction sheet on the panel board which is illustrated below.

#### TO START LAMP—NEW & USED BATTERIES

1. Push-in No. 1 and No. 2 Booster Keys.
2. Insert lamp cord plug in receptacle on end of carrying case.
3. Press "START" button and release. This generally requires only a fraction of a second to light the lamp. Do not press key longer than is necessary as it damages the lamp. (If lamp does not light, see Bell System Practices.)

#### BOOSTER CONTROL

4. When needle on meter goes below red mark pull-out No. 1 Booster Key.
5. When needle goes below red mark a second time pull out No. 2 Booster Key.
6. When needle goes below red mark a third time the batteries should be replaced.
7. On used batteries, if lamp does not start with Booster Keys in, then pull out No. 1 Booster Key and start. If lamp does not light, with No. 1 Booster Key out, pull out No. 2 Booster Key and start. (If lamp does not light, see Bell System Practices.)

#### TO EXTINGUISH LIGHT

8. Remove lamp cord plug from receptacle.

#### CAUTION

1. Place battery box on street when lamp is in operation.
2. Keep battery box dry.
3. Pull out only one booster key at a time.

3.02 If the light does not start with both booster keys in, pull out No. 1 Key and start. If light does not start, repeat with No. 2 Booster Key pulled out. If this does not start the light, replace the batteries.

3.03 If during the operation the needle goes below the red line with both booster keys pulled out the batteries should be replaced. **Pull out only one booster Key at a time.**

3.04 If the needle on meter goes to 300 milliamperes with both booster keys depressed, the set is defective. If, while in use, needle goes to 300 milliamperes with either one or two booster keys pulled out, either one or both keys should be pushed in.

3.05 The reversing switch must be operated once each day which will prolong the life of the lamp. If light flickers, operating reversing switch will usually stop it. This is especially true when batteries are low.

#### **4. MAINTENANCE**

4.01 To replace a fluorescent light tube, the clamping screws should be loosened and the plastic lens removed. Care should be taken while removing and replacing in order to prevent damage and to ensure a vaporproof joint when the parts are reassembled. The surface of the reflector can be cleaned with a clean dry piece of dust cloth. The fluorescent lamp tube is removed by a slight twist of the tube and installed in the reverse manner. Care should be taken not to inhale the fumes of a broken lamp nor to get the powder into an open cut.

4.02 New KS-6948 batteries are placed in the compartments with the 22-1/2-volt terminal on the long center partition side of the battery compartments which automatically polarizes the battery.

4.03 When set is in use and Booster Key No. 2 is pulled out, it is desirable that batteries be ordered as the remaining life of the batteries in the set is not more than 30 hours.

#### **4.04 Replacement Parts:**

**Battery, KS-6948**

**Lens, for C Splicer's Lamp**

**Lamp, F6T5/CW**

**Fuse, Buss, AGX 1/2 Amp**