

## LAMPS

### DESCRIPTION

### TOOLS

#### 1. GENERAL

**1.01** This section describes Bell System coded and noncoded lamp tools.

**1.02** The reasons for reissuing this section are listed below. Since this is a general revision, revision arrows have been omitted. The Equipment Test List is not affected.

- (a) To add the AT-7541 C heat lamp reflector
- (b) To rate the 248 Lamp Mfr Disc.
- (c) To update the practice to standard format.

**1.03** The following is a list of tools that have been Mfr Disc. with their replacements.

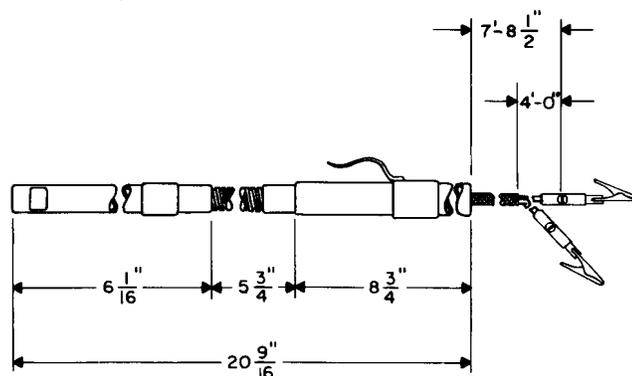
Tools	Replacement
248	-
KS-7191	KS-14762
KS-7192	KS-14762

#### 2. DESCRIPTION OF TOOLS

**2.01 442A:** The 442A multiple inspection lamp tool (Fig. 1) is used in repairing skimmers and multiple jack connections. This tool is equipped with a W2AL cord; two 360A tools, and two test clips. It is

arranged for, but not furnished with, an A2 lamp. A B1 lamp may be used if greater illumination is required.

**2.02 510C:** The 510C portable lamp tool (Fig. 2) is used in examination of small areas such as relay stud gaps. This tool is used with the 561A straight tip or the 562A or 562B offset tip. This tool, with the 521A tool (straight tip) replaces the 510B tool. This portable lamp tool requires a W2BL cord (48V) or W2CB cord (24V) for use with this tool.



**Fig. 1—442A Multiple Inspection Lamp Tool**

**Note:** Use soap and water to clean the lens and then dry with a clean, dry, lint-free cloth. If the surface is dull, use automobile paste wax to restore the lustre.

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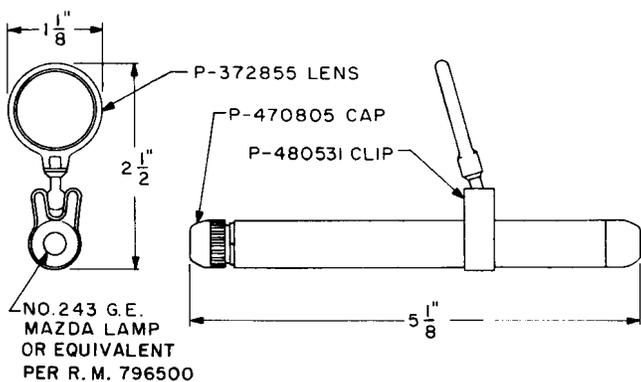


Fig. 2—510C Portable Lamp Tool

2.03 **561A:** The 561A straight tip tool (Fig. 3) is used on all types of relays. It is used in conjunction with the 510C tool.

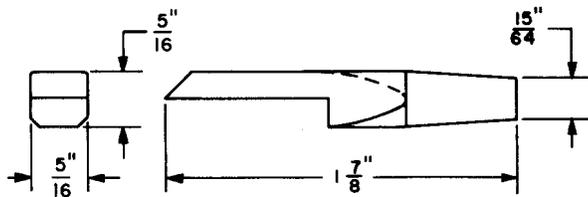


Fig. 3—561A Straight Tip Tool

2.04 **562A:** The 562A offset tip tool is covered in the Bell System Practice on Panel Office Tools, Section 074-247-105.

2.05 **562B:** The 562B offset tip tool (Fig. 4) is for use on U-, Y-, and UA-type relays. It is used in conjunction with the 510C tool.

2.06 **R-2559:** The R-2559 power lamp test tool is used on compressor-dehydrators. It has an enclosed neon test lamp which glows when terminals are placed across live electrical circuits having voltages of 80 to 600 ac or dc. Insulated leads are 24 inches long. The entire unit is cement sealed and moisture proof.

2.07 **R-80216:** For more information on the R-80216 bracket lamp tool, see Brackets, Section 074-205-132.

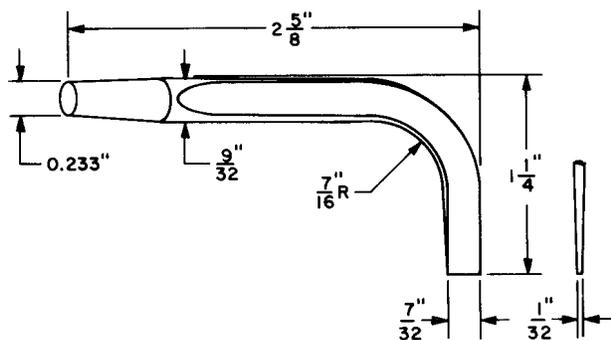


Fig. 4—562B Offset Tip Tool

2.08 **AT-7541:** The AT-7541 C heat lamp (Fig. 5) is used with a 115 to 125 volt infrared lamp, to provide heat and illumination for cable splicing operations in cold weather. It consists of an aluminum reflector heat resistant neoprene cord, and a telescoping bracket.

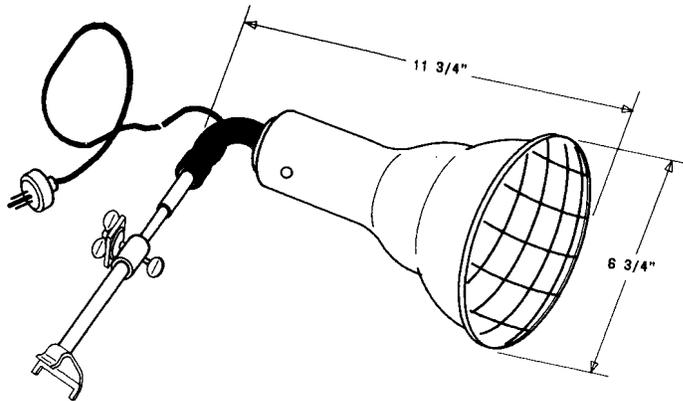


Fig. 5—AT-7541 C Heat Lamp Tool

2.09 **KS-7118:** For more information on the portable B-type guard lamp tool, see Guards, Section 074-220-135.

2.10 **KS-14762, L1, L2, and L3:** The KS-14762, L1, L2, and L3, portable lamp tools are intended to clamp on racks, frames, or switchboards and operate from central office battery. The tools are designed to use high candle power, sealed beam lamps KS-16196, L2, (24V) or KS-16197, L2, (48V), which must be ordered separately.

(a) **KS-14762, L1:** The KS-14762, L1, portable lamp tool (Fig. 6) is supplied with an 8-foot M2EK cord equipped with connecting clips and is for general use.

(b) **KS-14762, L2:** The KS-14762, L2, portable lamp tool (Fig. 6) is supplied with an 8-foot M2FD cord equipped with two pin-type plugs for connection in ESS offices.

(c) **KS-14762, L3:** The KS-14762, L3, portable lamp tool (Fig. 6) is supplied with a 14-foot M2EJ cord equipped with a 310 plug.

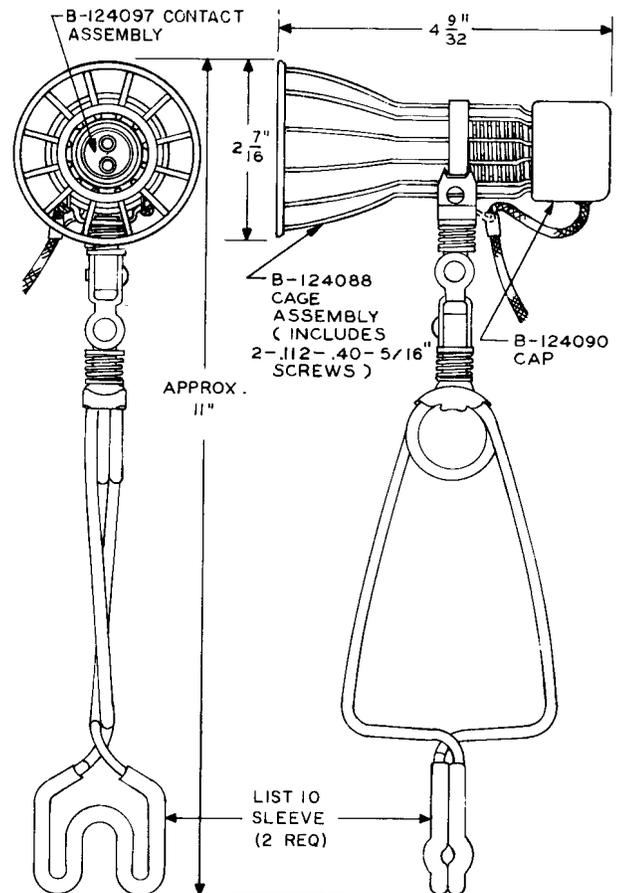


Fig. 6—KS-14762, L1, L2, or L3, Portable Lamp Tool

2.11: **KS-21808, L1:** The KS-21808, L1, magnifier lamp tool (Fig. 7) is intended to provide supplementary illumination and magnification when wire wrapping, trouble shooting, and inspecting congested wiring. It consists of a lamp having an electrically and thermally insulated shade, 75-watt incandescent bulb for illumination and a 5-inch, 1.75X circular magnifier lens.

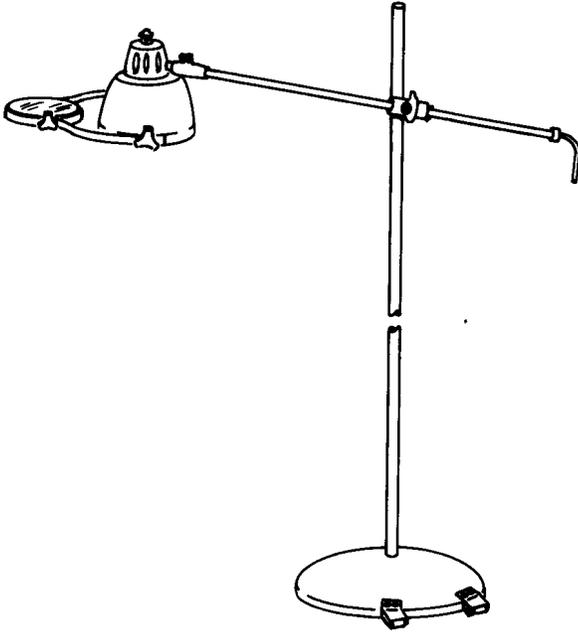


Fig. 7—KS-21808, L1, Magnifier Lamp Tool

**2.12 KS-22391, L2:** The KS-22391, L1, lamp tool (Fig. 8) is a free-standing fluorescent lighting fixture. It is a dual-purpose luminaire (indirect/direct) system for ambient and task lighting. A reflector and specular louver direct light upward for ambient illumination. A bat-wing louver directs light downward from two lamps for task lighting.

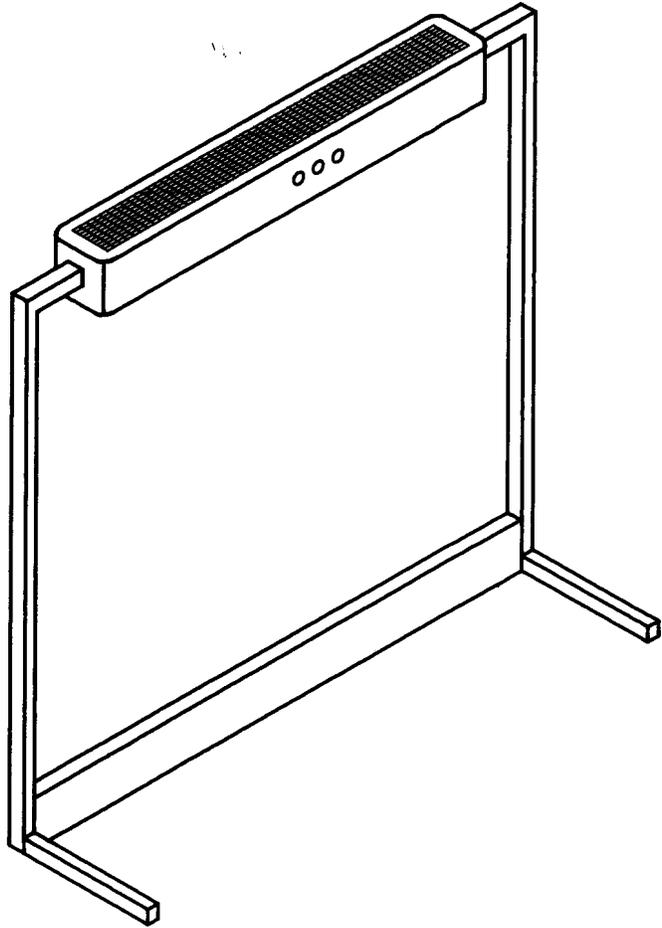


Fig. 8—KS-22391, L1, Lamp Tool