

**SPECIFIC REQUIREMENTS FOR  
DRESSING OF SKINNERS  
POWER PLANT APPARATUS  
GENERAL EQUIPMENT REQUIREMENTS**

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**1. GENERAL**

1.01 This section, covers the specific equipment requirements for the dressing of skimmers to power plant apparatus.

1.02 The requirements covered in this and other sections in this series of practices shall be followed, except as modified by applicable specifications and drawings. These requirements supplement the standard requirements for wiring as covered in other sections in this series. The standard requirements apply unless otherwise specified herein.

**2. REQUIREMENTS FOR DRESSING OF SKINNERS**

2.01 The dress of skimmers to any particular piece of apparatus not illustrated herein should agree as nearly as possible with the dress shown in the illustrations of apparatus it most closely resembles.

2.02 Dress all skimmers so as to present a neat appearance and, as far as possible, to permit access to all connections.

2.03 The skinner dress of No. 14 gauge KS-5482-01 wire and all switchboard type wire, No. 14 gauge and smaller, should, as a matter of general principle, contain only sufficient slack to conform to the following figures and to take care of permissible variations in skinner lengths and permit removal of terminal from stud. Where loop dress is shown, the dress may be modified in cases of extreme congestion by omitting the loop. Straight dress may be used for Deltabeston and Rockbestos stranded wire, if desired.

**2.04** Where all the skinners to a piece of apparatus consist of KS-5482-01 wires larger than No. 14 gauge, these skinners shall be dressed straight.

**2.05** Where skinners to a piece of apparatus consist of a combination of KS-5482-01 wire larger than No. 14 gauge and either (or both) switchboard type wire and No. 14 gauge KS-5482-01 wire, the skinners for the wire larger than No. 14 gauge shall be dressed straight and the other skinners shall contain slack in accordance with 2.03.

**2.06** Minor changes in skinner dress, where necessary, due to relative location of adjacent apparatus or direction of approach of a cable form are acceptable.

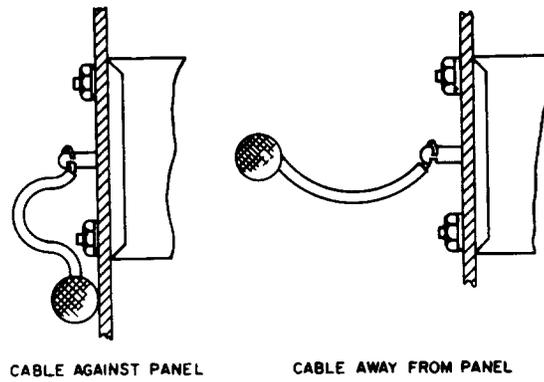
**2.07** Dress the braided rubber-covered cables so that the radii of any bends outside of conduit fittings shall not be less than the following.

| Size of Wire or Cable | Minimum Radius to Inside Edge—Inches |
|-----------------------|--------------------------------------|
| 14 Gauge              | 1/4                                  |
| 12 — 10 Gauge         | 1/2                                  |
| 8 — 4 Gauge           | 1                                    |
| 2 — 0 Gauge           | 1-1/2                                |
| 00 — 0000             | 3-1/2                                |
| 300,000 — 500,000 CM  | 5                                    |
| 600,000 — 800,000 CM  | 7                                    |

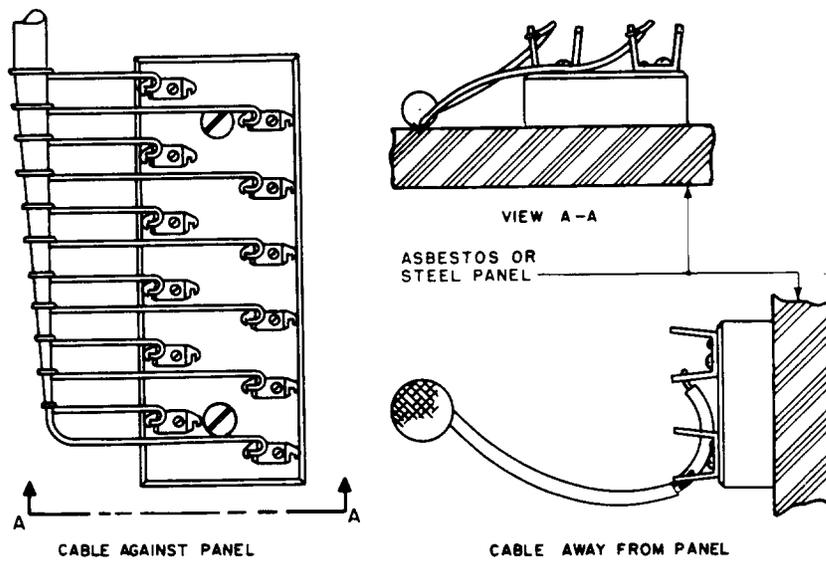
Asbestos-covered No. 14 gauge stranded wire may be bent to a radius of 1/8 inch.

**2.08** Rear-of-board wiring extending through the panel to front-of-board connected apparatus, in general, requires no slack on the rear of the panel, but should contain slack at the terminals where possible.

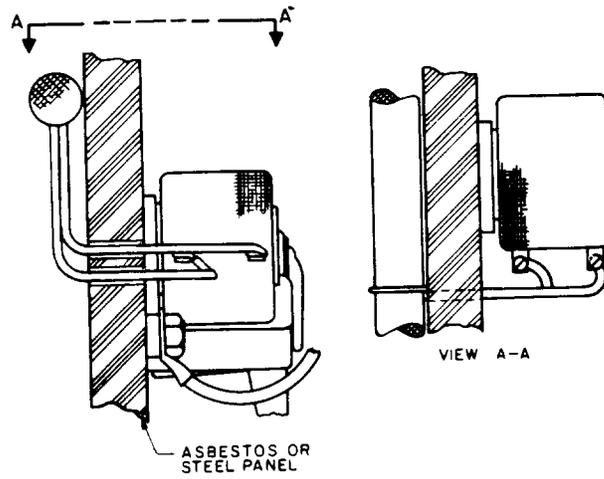
**2.09** At ringing machine tables any No. 14 gauge or larger multicolored wires above the top of the table shall be painted with switchboard cable paint.



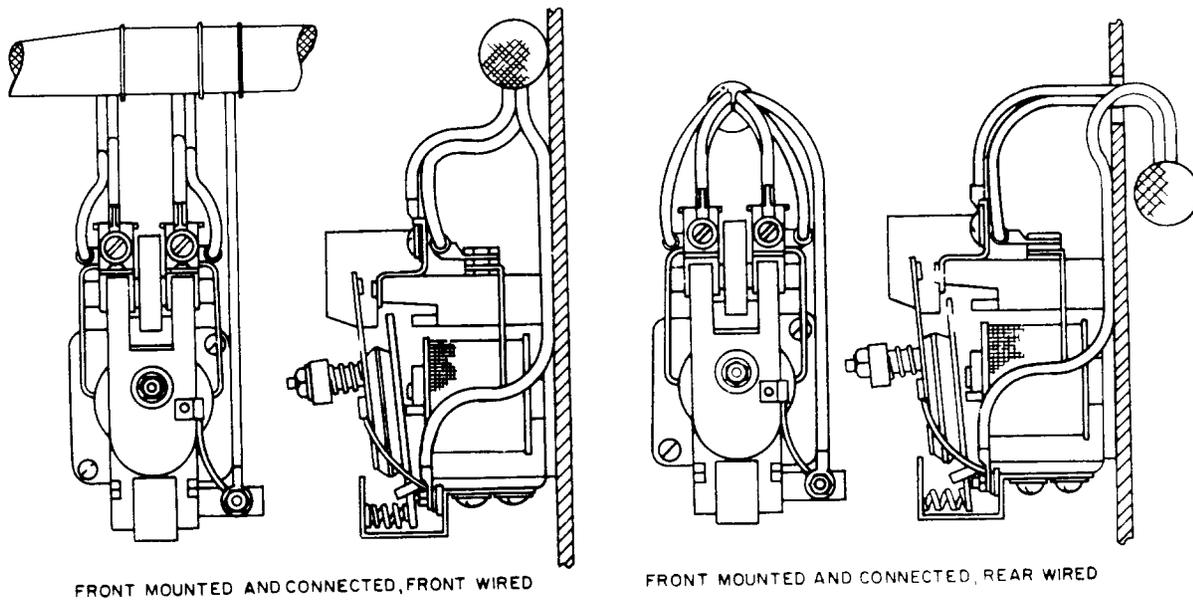
**Fig. 1 — Capacitors — KS-8025 and Similar Small Electrolytic — No. 14 Gauge and Smaller Wires**



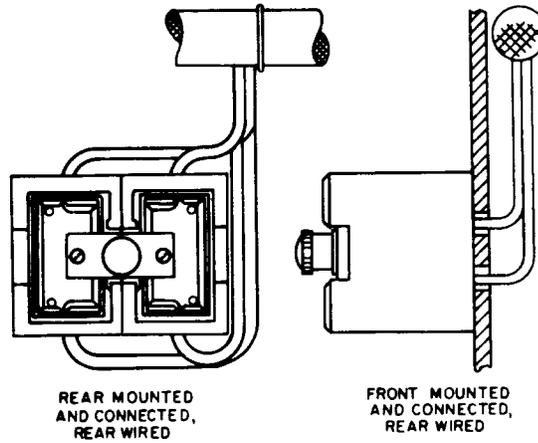
**Fig. 2 — Connecting Blocks — ED-80504-01 and Similar Types — No. 14 Gauge and Smaller Wires**



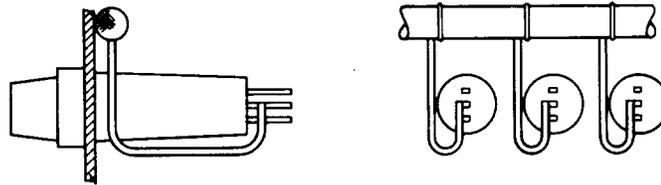
**Fig. 3 — Contactors — KS-5323-01 and Similar Types — Wiring of Front-mounted and Connected, Rear-wired Potential Coils — No. 14 Gauge and Smaller Wires**



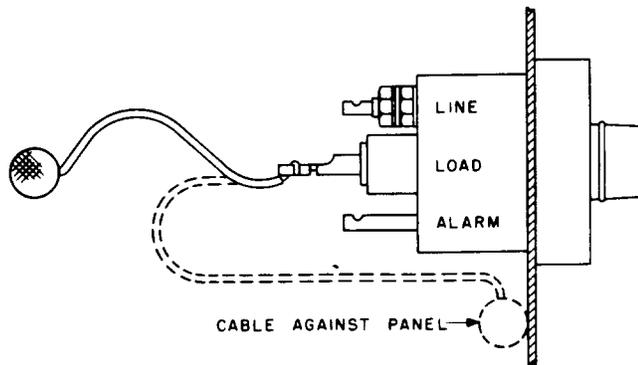
**Fig. 4 — Contactors and Relays — Small Control — No. 14 Gauge and Smaller Wires**



**Fig. 5 — Fuse Bases — Saftofuse Flat Base Units — All Sizes of Wires**



**Fig. 6 — Fuse Blocks — 18A and Similar Types — No. 14 Gauge and Smaller Wires**



**Fig. 7 — Fuse Blocks — KS-14169 and Similar Types — No. 14 Gauge and Smaller Wires**

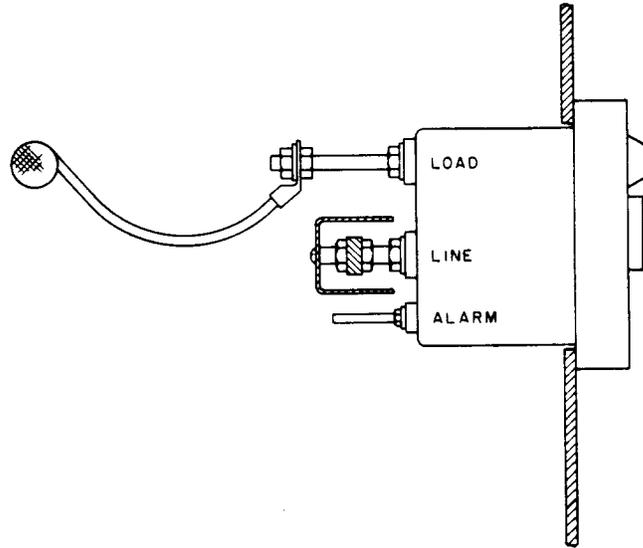


Fig. 8 — Fuse Blocks — KS-14170 and Similar Types — Wires Larger than No. 14 Gauge

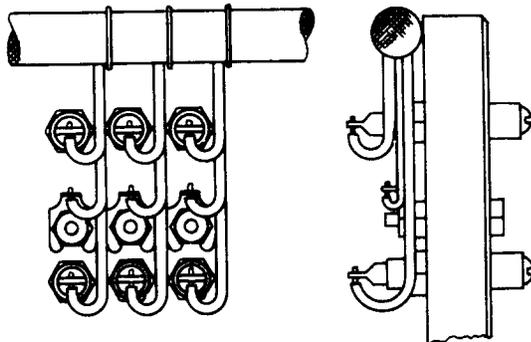


Fig. 9 — Fuse Posts — No. 5 and Similar Types — No. 14 Gauge and Smaller Wires

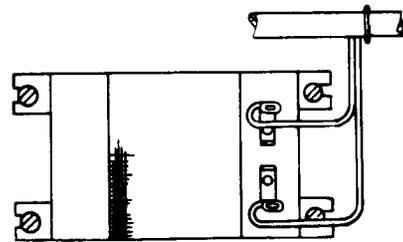


Fig. 10 — Inductors — No. 152 and Similar Types — No. 14 Gauge and Smaller Wires

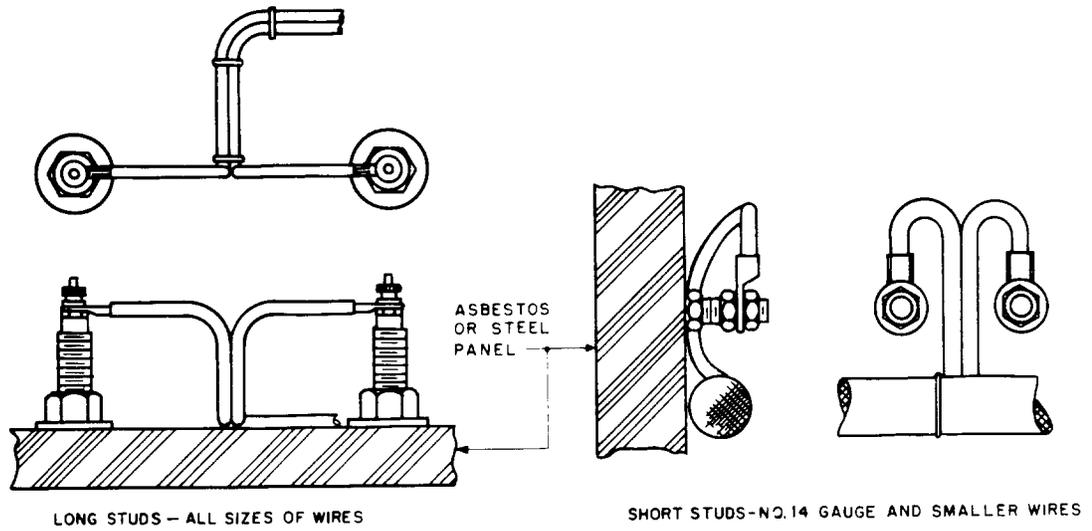


Fig. 11 - Instruments — Except External Shunt Ammeters

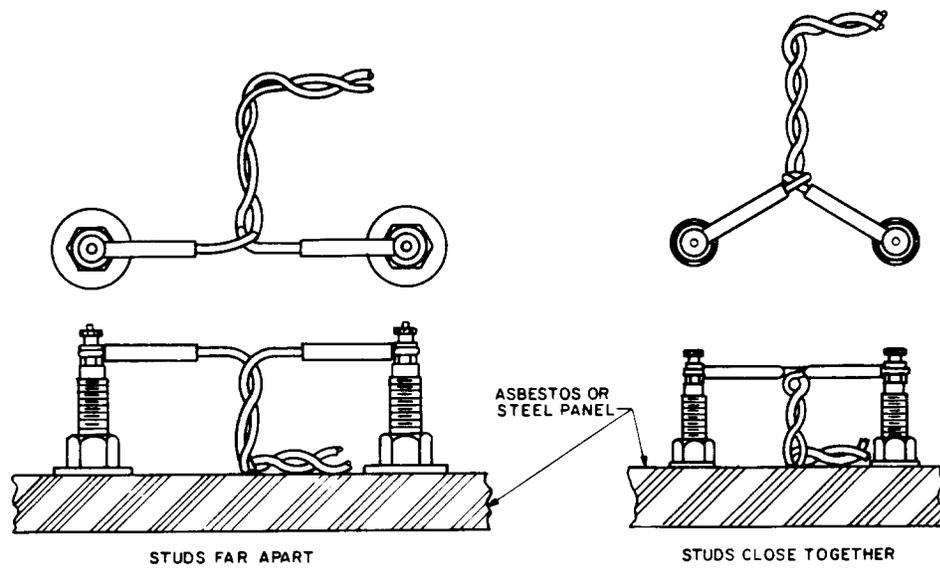


Fig. 12 - Instruments — Ammeters With External Shunts

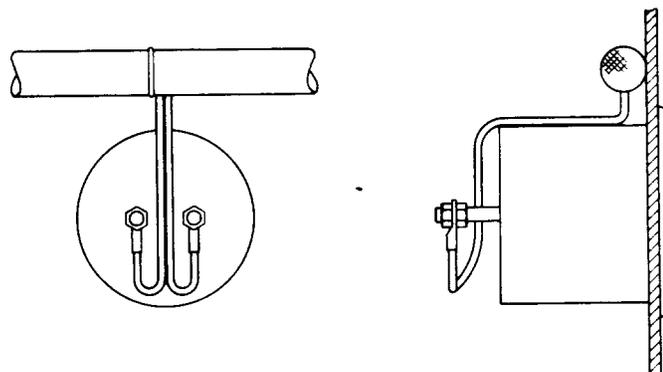
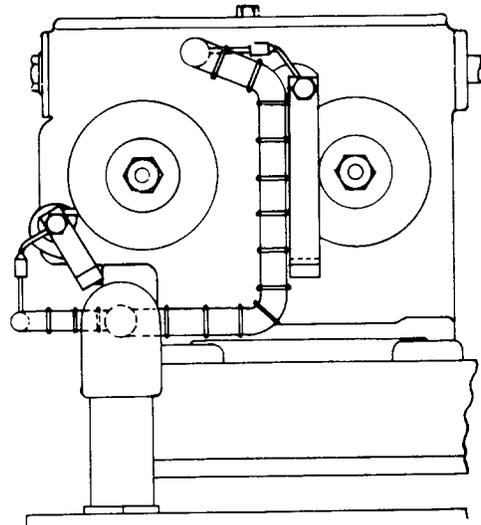


Fig. 13 - Instruments — Ammeters — Weston 301 and Similar Types — No. 14 Gauge and Smaller Wires



VIEW A-A

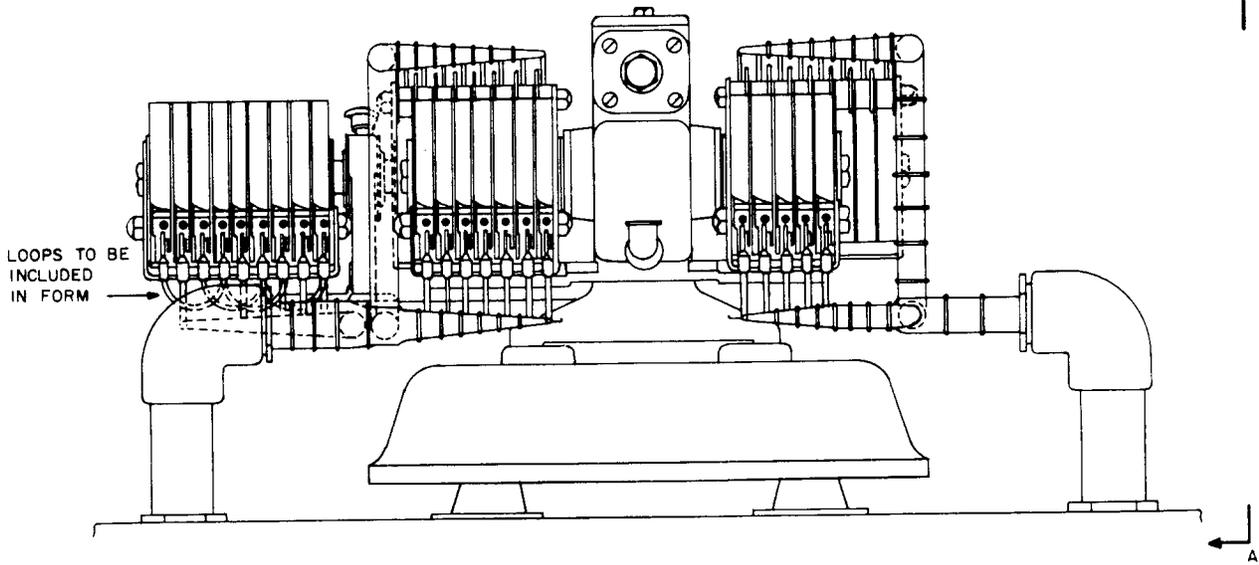
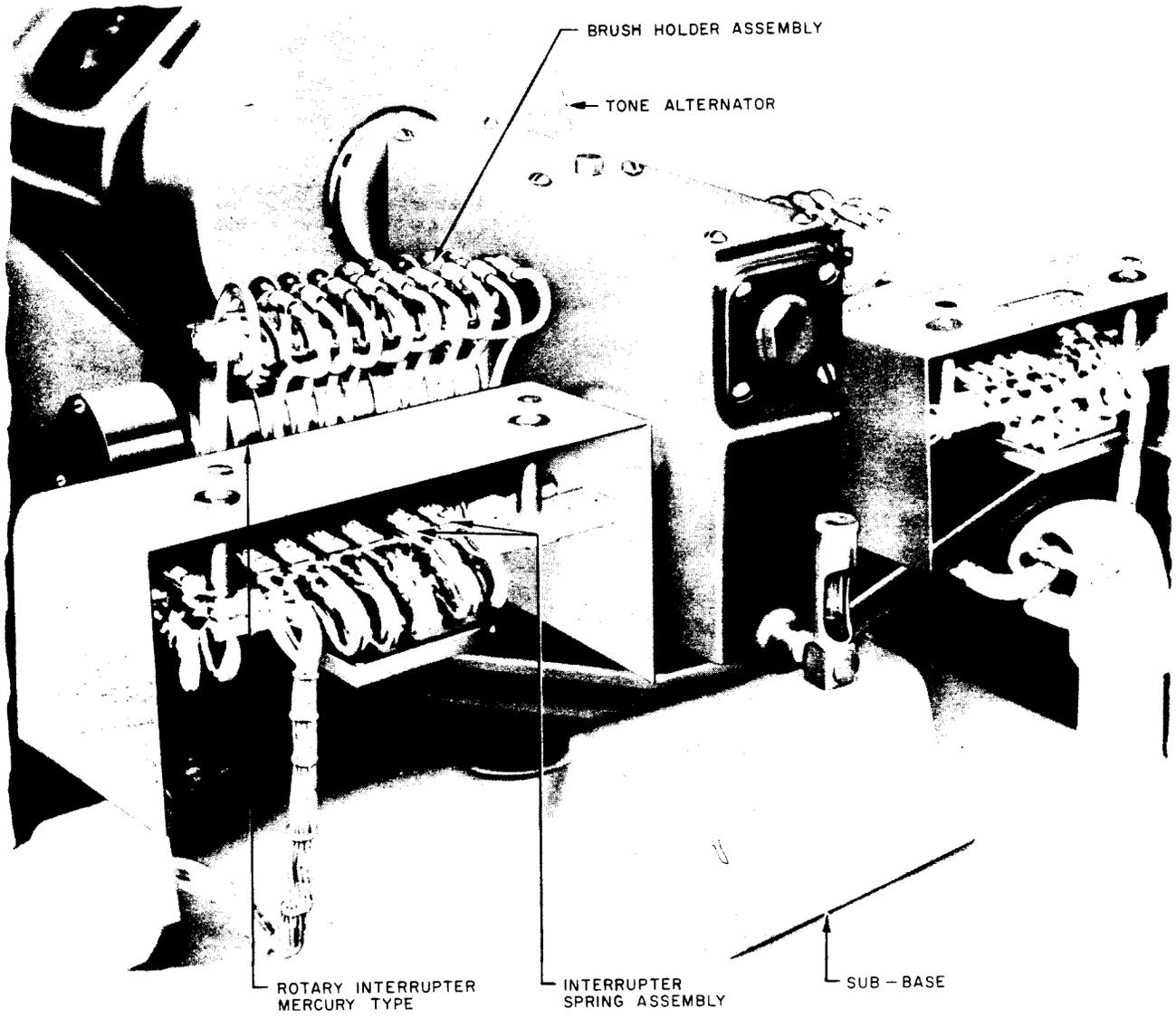
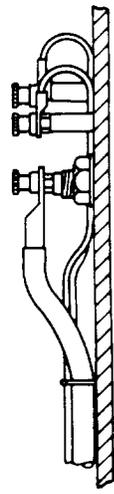
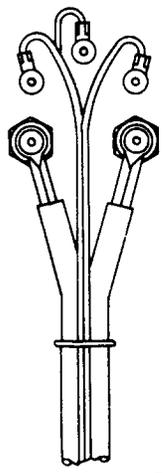
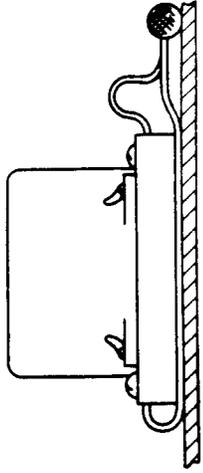
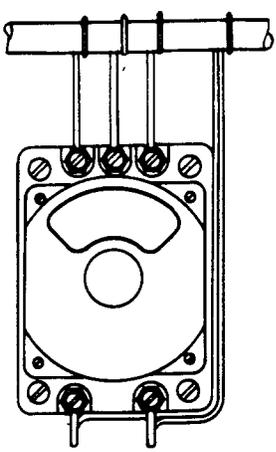


Fig. 14 - Interrupters — Mercury Type



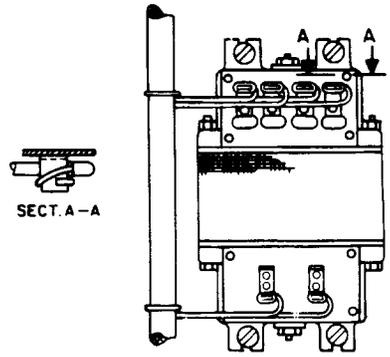
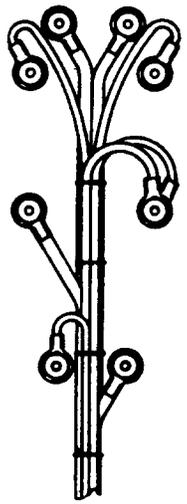
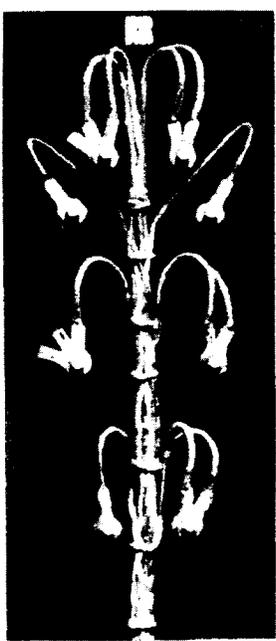
**Fig. 15 — Interrupters — Mercury Type — No. 5 Crossbar**



FRONT MOUNTED, FRONT WIRED AND CONNECTED  
NO.14 GAUGE AND SMALLER WIRES  
WESTON NO.534 AND SIMILAR TYPE RELAYS

FRONT MOUNTED, REAR WIRED AND CONNECTED  
WIRES BOTH NO.14 GAUGE OR SMALLER AND  
LARGER THAN NO.14 GAUGE  
260, 261, AND SIMILAR TYPE RELAYS

Fig. 16 — Relays — Time Delay and Voltage



NO. 14 GAUGE  
AND SMALLER  
WIRES

WIRES BOTH NO. 14 GAUGE OR  
SMALLER AND LARGER  
THAN NO. 14 GAUGE

Fig. 18 — Repeating Coils — 113, 114  
and Similar Types

Fig. 17 — Relays — KS-5350 and Similar Types —  
Front Mounted, Rear Wired and Connected

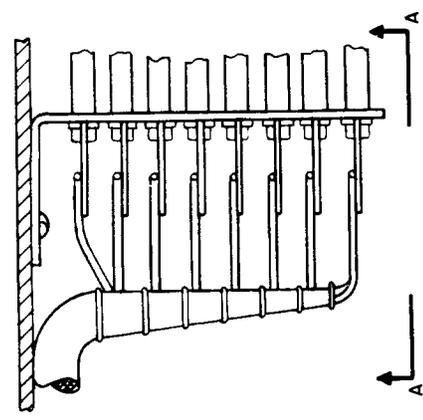
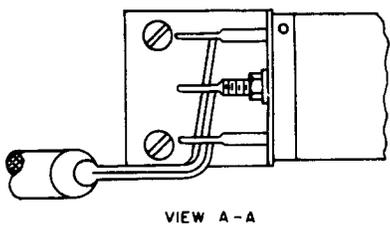


Fig. 19 - Resistors — 18, 19, and Similar Types on Brackets (19 Type Shown) — No. 14 Gauge and Smaller Wires

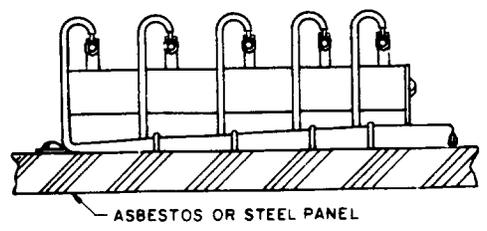
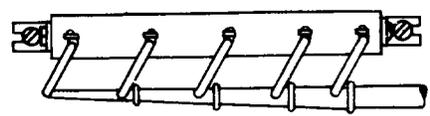
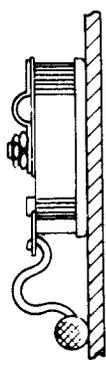
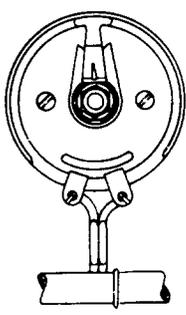
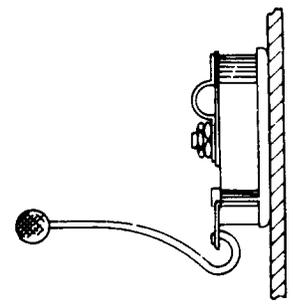


Fig. 20 - Resistors — Tube Type — Bracket Mounted — Cable Against Panel — No. 14 Gauge and Smaller Wires



CABLE AGAINST PANEL



CABLE AWAY FROM PANEL

Fig. 21 - Rheostats — Small Radio Type — No. 14 Gauge and Smaller Wires

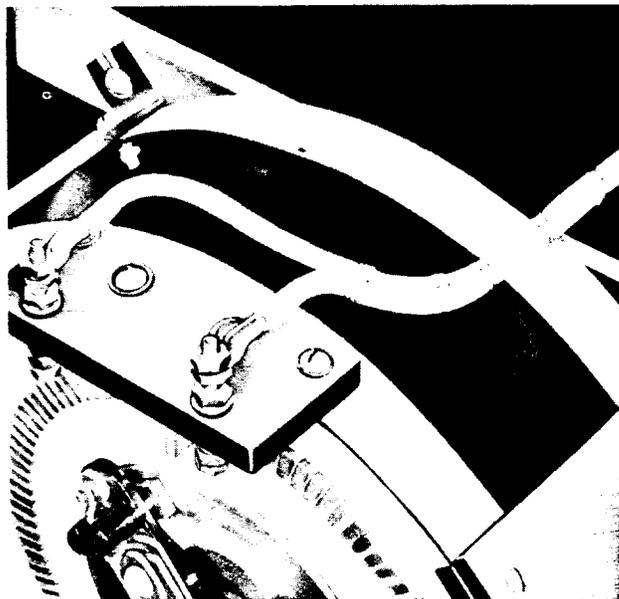


Fig. 22 — Rheostats — Motor Driven and Large Manual — Wire Larger Than No. 14 Gauge

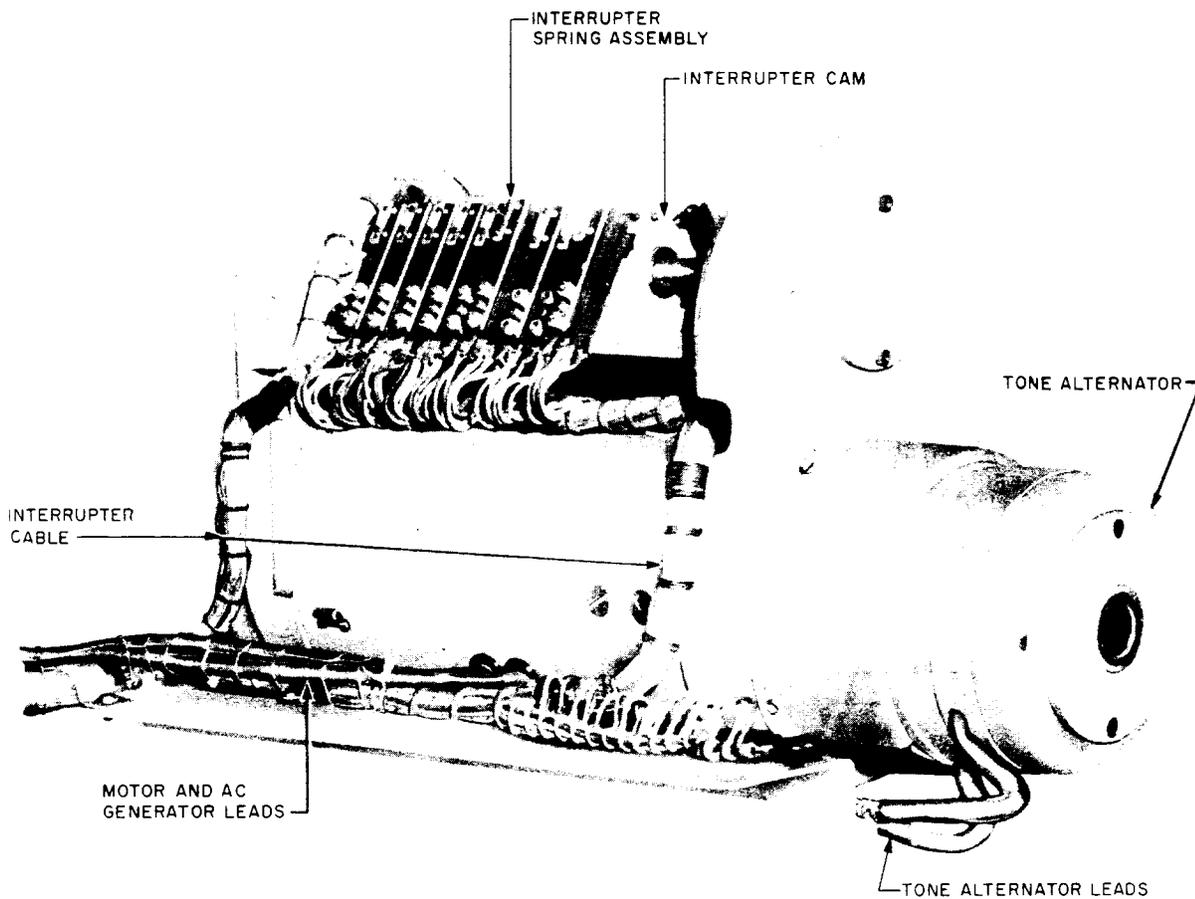


Fig. 23 — Ringing Machines — KS-15532 — 1-ampere Type

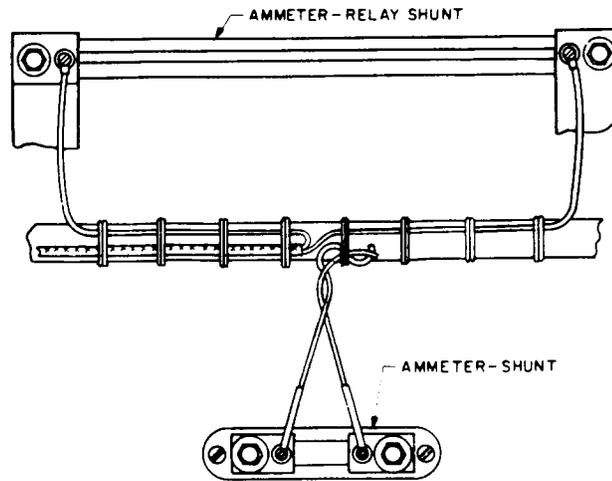


Fig. 24 — Shunts — Ammeter and Ammeter-Relay

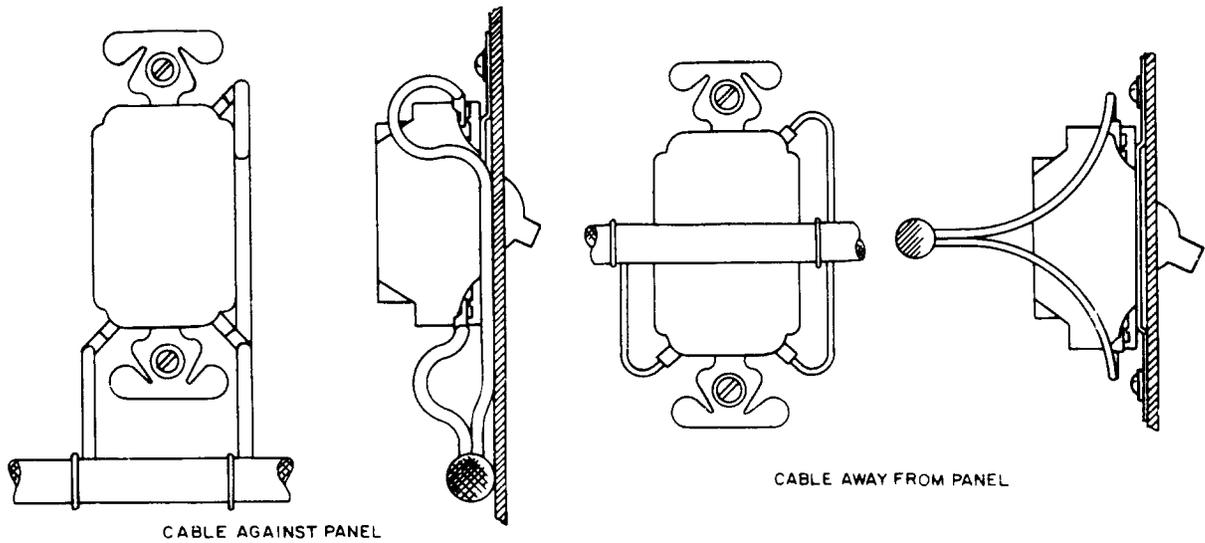
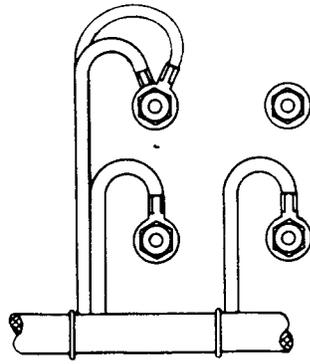
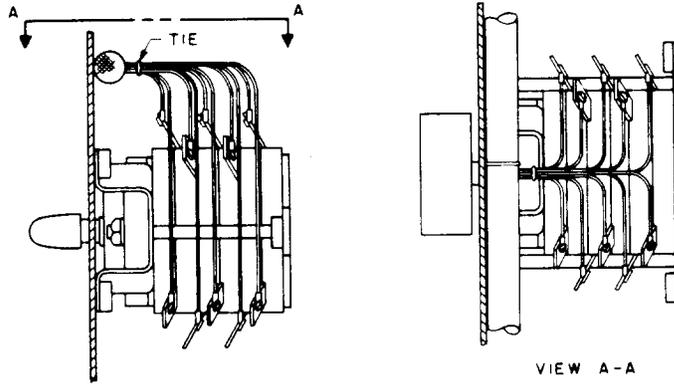


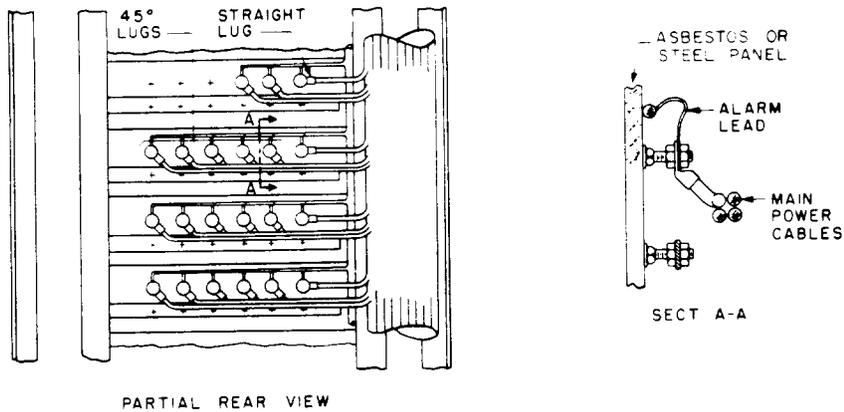
Fig. 25 — Switches — Tumbler, Snap, Toggle, Push Button — Front Operated, Rear Mounted on Metal Panels — No. 14 Gauge and Smaller Wires



**Fig. 26 — Switches — Tumbler, Toggle, Snap — Front Mounted, Rear Wired and Connected — No. 14 Gauge and Smaller Wires**



**Fig. 27 — Switches — KS-5716 — Rotary Snap Type — No. 14 Gauge and Smaller Wires**



**Fig. 28 — Switches — Knife or Lever Fuse Posts — N.E.C. Contactors — Large Choke Coils (Fuse Posts on BDFB Shown)** } All Sizes of Wires

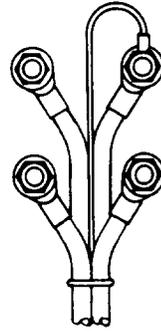


Fig. 29 — Switches — Knife or Lever  
 Fuse Posts — N.E.C.  
 Contactors — Large

Straight Lugs —  
 Wires Both No. 14 Gauge  
 or Smaller and  
 Larger Than No. 14 Gauge

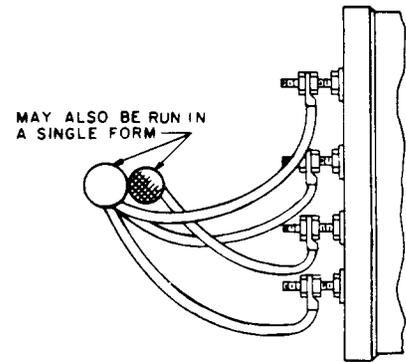
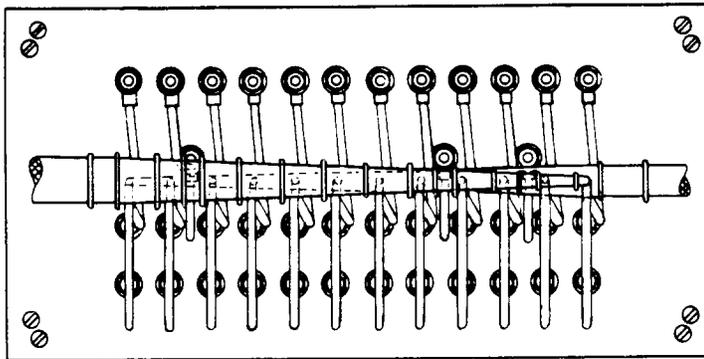


Fig. 30 — Switches — Multipole Transfer — No. 14 Gauge and Smaller Wires

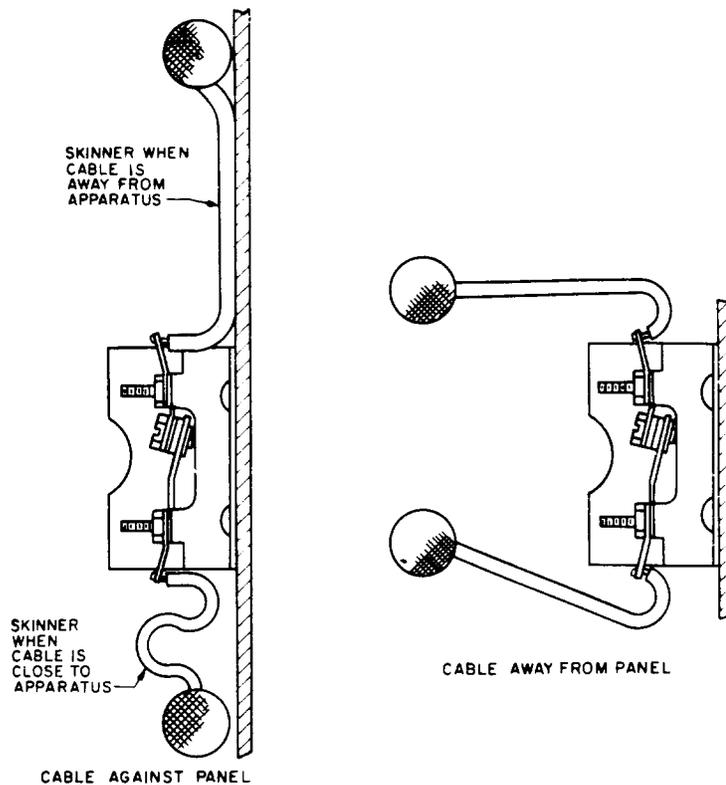
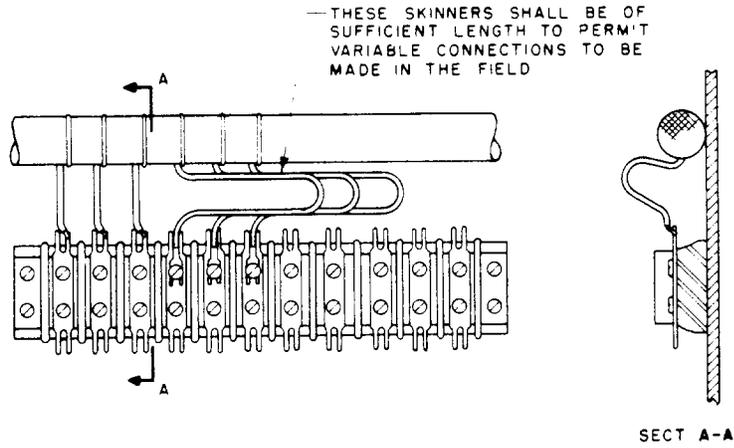
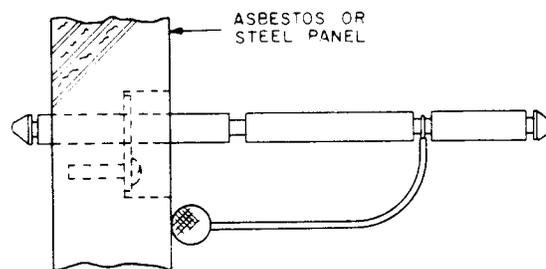


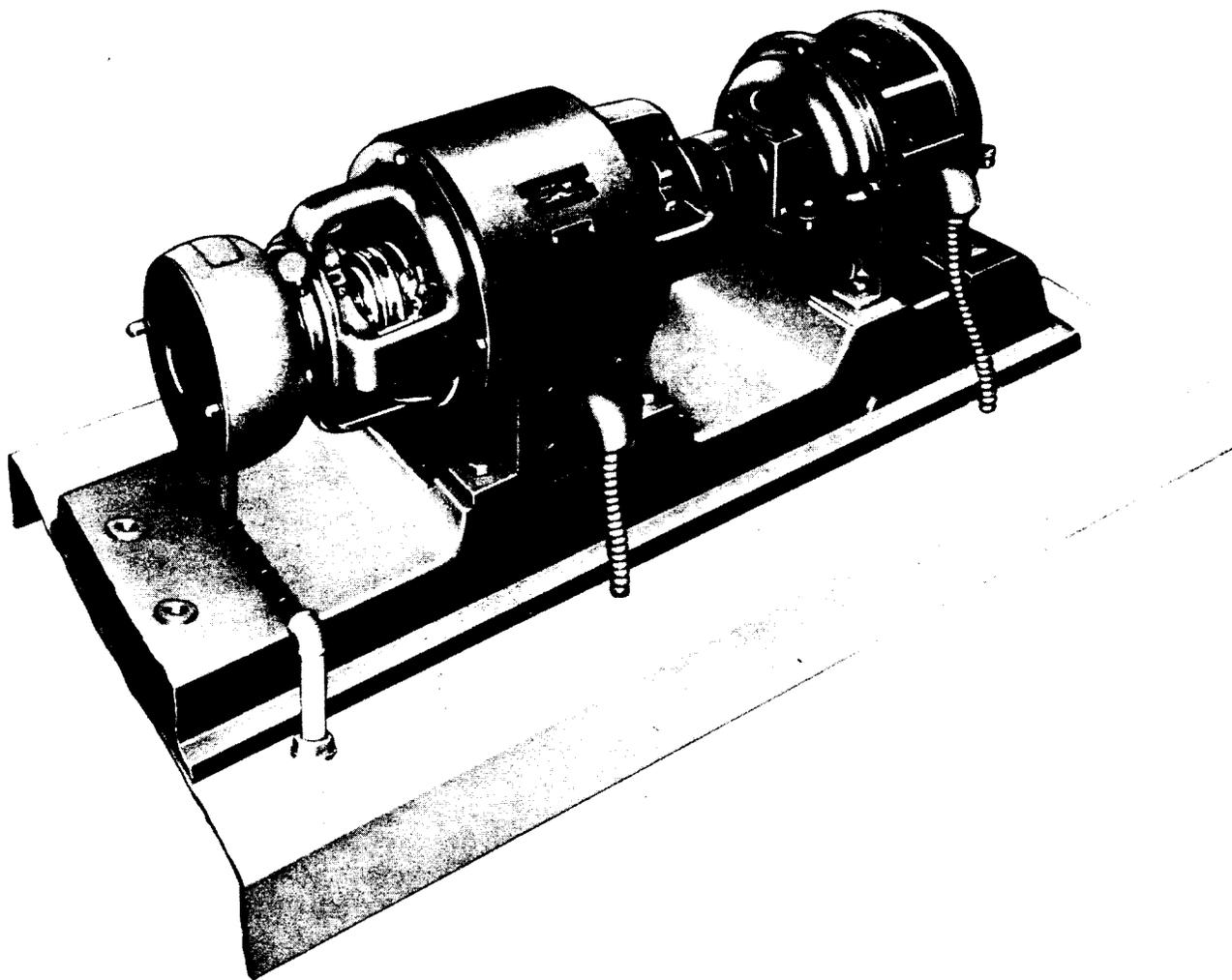
Fig. 31 — Terminal Blocks — States Co. — No. 14 Gauge and Smaller Wires



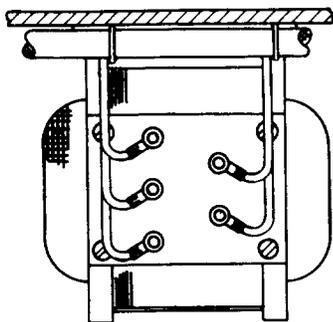
**Fig. 32 — Terminal Strips — H. B. Jones Co. —  
No. 14 Gauge and Smaller Wires**



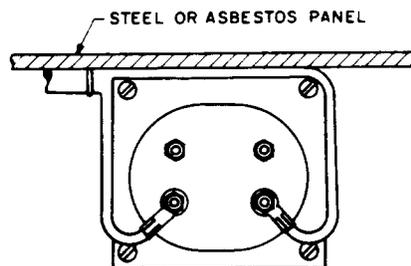
**Fig. 33 — Test Posts — No. 1A and Similar Types —  
No. 14 Gauge and Smaller Wires**



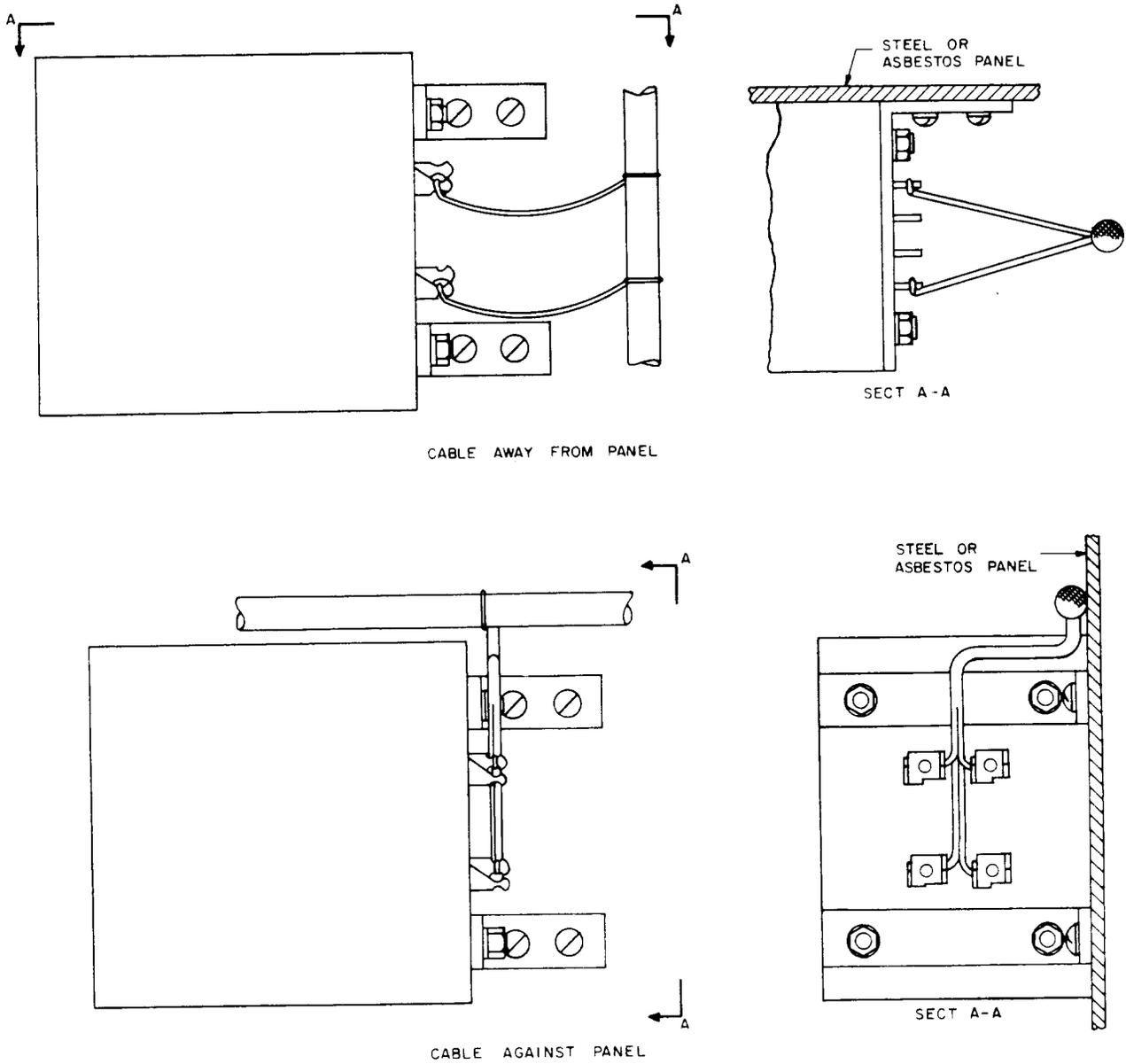
**Fig. 34 – Tone Alternators on Large Ringing Machines**



**Fig. 35 – Transformers for Small Ringing Machines Such as KS-5319 and Similar Types — No. 14 Gauge and Smaller Wires**



**Fig. 36 – Transformers — Small Service — No. 14 Gauge and Smaller Wires**



**Fig. 37 — Transformers — No. 344F and Similar  
Types — No. 14 Gauge and Smaller Wires**