

CONNECTORS

DESCRIPTION

TOOLS

1. GENERAL

1.01 This section covers Bell System coded and noncoded connector tools.

1.02 This section is reissued to add the AT-8148, AT-8953, and AT-8987 test connectors and to update the practice to standard format. Since this is a general revision, revision arrows have been omitted.

2. DESCRIPTION OF TOOLS

2.01 **361B:** The 361B tool is a relay winding connector (Fig. 1) used in conjunction with a 360-type tool for test purposes on E-, R-, and similar-type relays. This connector replaces the 361 tool.

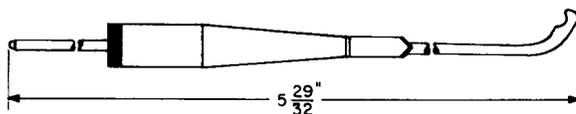


Fig. 1—361B Relay Winding Connector Tool

2.02 **387A:** The 387A tool is an intercontact connector (Fig. 2) used on 111-type relays.

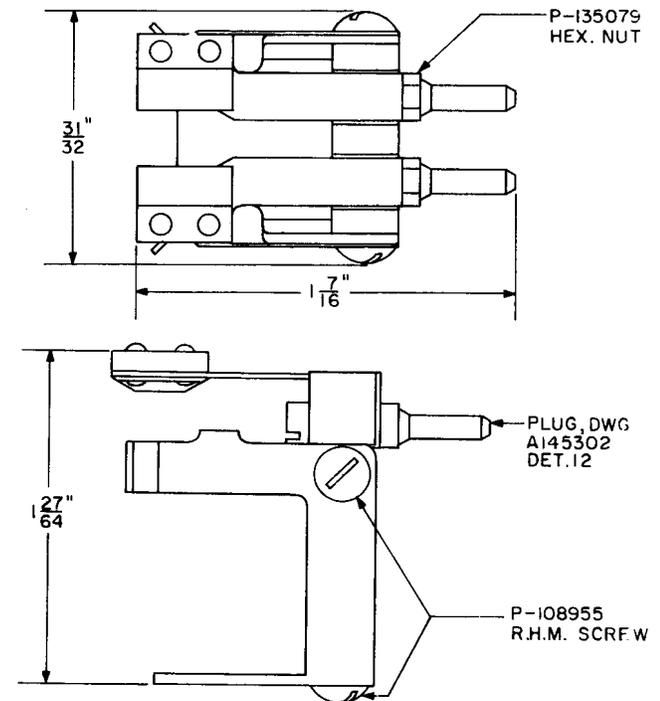


Fig. 2—387A Intercontact Connector Tool

2.03 **419A:** The 419A tool is a test connector (Fig. 3) used in making test connections to A- and B-type sequence switches, 157-type interrupters, and relays. This tool replaces the 252 tool.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

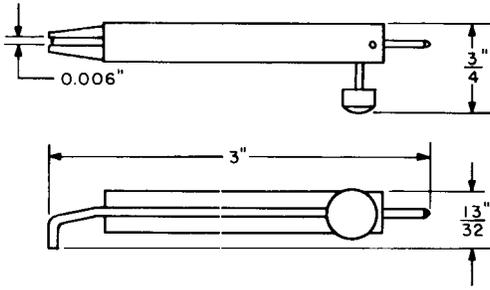


Fig. 3—419A Test Connector Tool

2.04 **428B:** The 428B tool is a relay winding connector (Fig. 4) used in making test connections from the front of the relay on 89, 101, 105, 108, 111, 121, 122, 149, 162, 172, 178, 179, 190, and 196-type relays. This tool replaces the 428A tool.

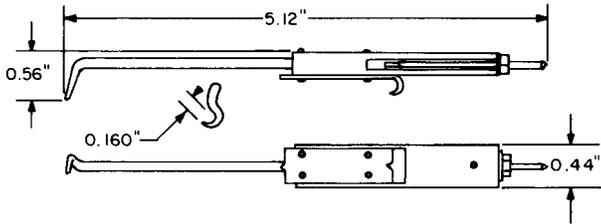


Fig. 4—428B Relay Winding Connector Tool

2.05 **471A:** The 471A tool is a test connector (Fig. 5) used in connecting to meters, etc, in checking teletypewriter equipment.

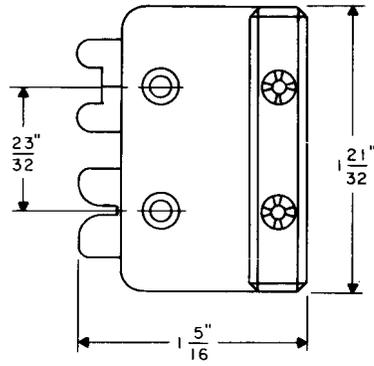
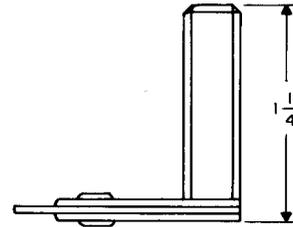


Fig. 5—471A Test Connector Tool



2.06 **509-Type:** The 509-type tools are relay terminal connectors. The tools consist of a cylindrical handle made of an insulating material and a metal contact rod extending through the center of the handle.

(a) **509A:** The 509A tool (Fig. 6) is used with a 360-type tool to connect winding terminals of U-, Y-, and similar-type relays, and 263- and 264-type relays.

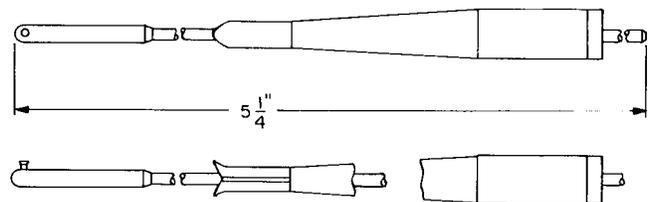


Fig. 6—509A Relay Winding Connector Tool

(b) **509B:** The 509B tool (Fig. 7) is used with a 360-type tool to connect winding terminals of 286-, 287-, and 288-type relays.

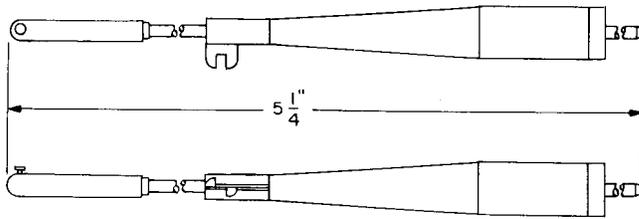


Fig. 7—509B Relay Winding Connector Tool

2.07 547A: The 547A tool is a magnet winding connector (Fig. 8) used in conjunction with the 360-type tool. It is used on 245- and 254-type relays, 300- and similar-type switches, and 1- and 2-type timers.

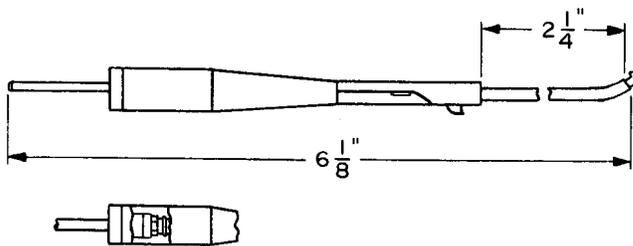


Fig. 8—547A Magnet Winding Connector Tool

2.08 548A: The 548A tool is a magnet winding connector (Fig. 9) used in conjunction with the 360-type tool. It is used on 300- and similar-type switches.

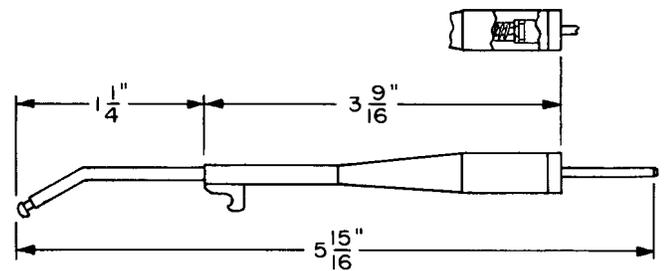


Fig. 9—548A Magnet Winding Connector Tool

2.09 607A: The 607A tool is a relay winding connector (Fig. 10) used on U-, Y-, and UB-type relays. This tool replaces the R-2736 relay winding connector tool.

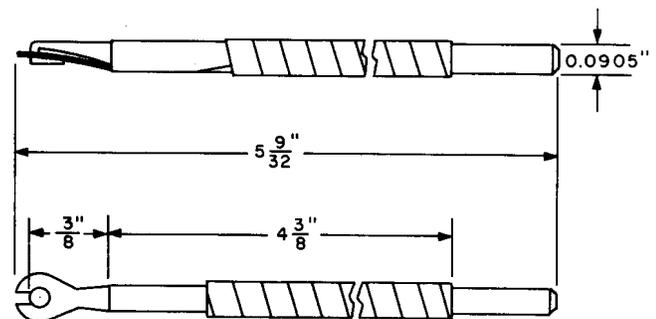


Fig. 10—607A Relay Winding Connector Tool

2.10 620A: The 620A tool is a bank contact connector (Fig. 11) used in making test connections to the bank contacts of step-by-step line finder switches. A W3AJ cord is required for connecting this tool.

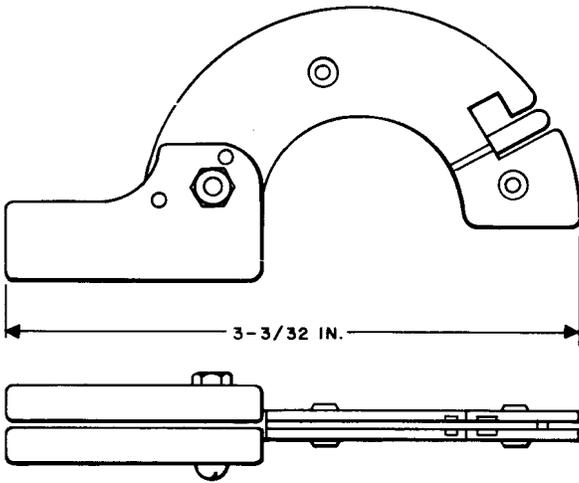


Fig. 11—620A Bank Contact Connector Tool

2.11 **624-Type:** The 624-type tools (Fig. 12) are terminal connectors. The tools consist of a metal rod, one end with a pin point with the other end having an axial hole and slot, and a handle covered with a sleeve of insulating material.

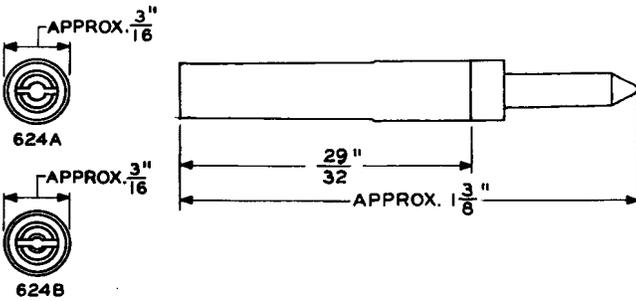


Fig. 12—624A or B Terminal Connector Tool

- (a) **624A:** The 624A tool is used in conjunction with 360-type tools for making test connections to winding terminals of AF-, AG- and AJ-type relays.
- (b) **624B:** The 624B tool is used in conjunction

with 360-type tools for making test connections to the 251- and similar-type terminal strips.

2.12 **639A:** The 639A tool is a relay contact connector (Fig. 13) used in conjunction with 360-type and 651-type tools to make test connections to the fixed contacts on AF-, AG-, AJ-, and AK-type relays.

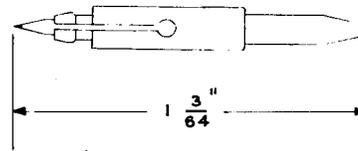


Fig. 13—639A Relay Contact Connector Tool

2.13 **770-Type:** The 770-type tools are relay terminal connectors. The tools consist of a bent metal rod enclosed in an insulated tube assembled at 90° angle to a retractable hooked metal tube.

(a) **770A:** The 770A tool (Fig. 14) is used in making test connections to 5- and 12-type registers.

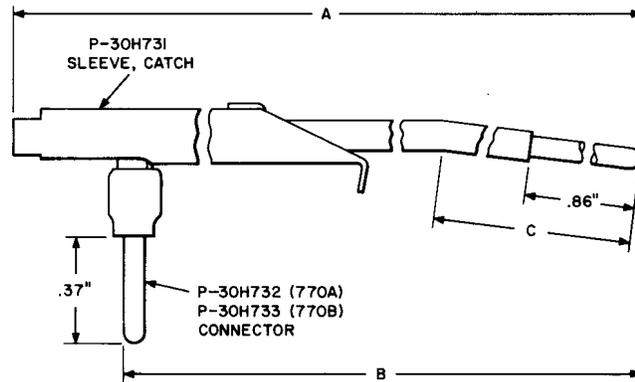


Fig. 14—770A Test Connector Tool

(b) **770B:** The 770B tool (Fig. 15) is used in making test connections to 14-type registers.

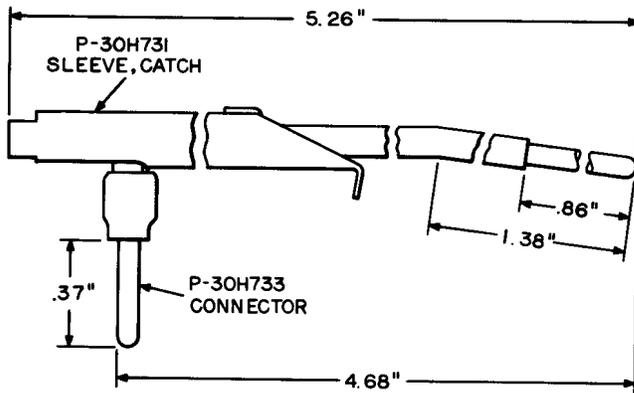


Fig. 15—770B Test Connector Tool

2.14 AT-8148B: The AT-8148B tool is a test connector (Fig. 16) designed to provide a quick and reliable means for making electrical contact.

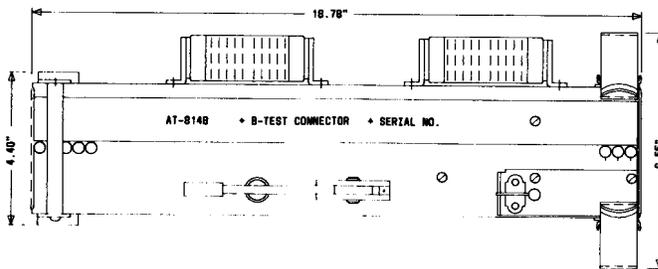


Fig. 16—AT-8148B Test Connector Tool

2.15 AT-8953S: The AT-8953S tool is a test connector (Fig. 17) developed to test 76 BP-type terminals for continuity at the factory and at installation sites.

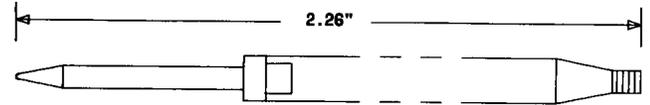


Fig. 17—AT-8953S Test Connector Tool

2.16 AT-8987T: The AT-8987T tool is a test connector (Fig. 18) which provides a means of testing 100 pairs at-a-time on either the 310A1-100 or 310B1-100 connector.

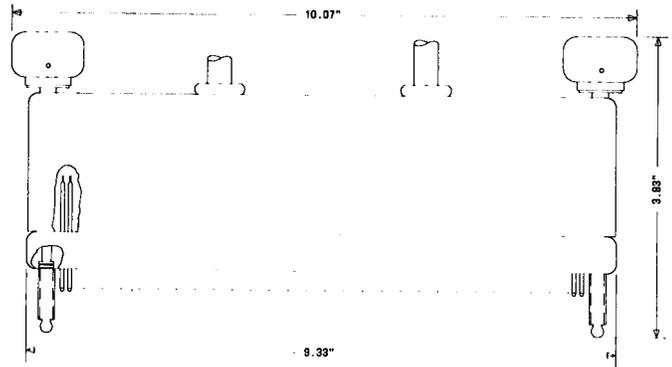


Fig. 18—AT-8987T Test Connector Tool