

## TEST TOOLS II

### DESCRIPTION

#### 1. GENERAL

1.01 This section describes coded and noncoded test tools within the part or type number range of 757 through 870, D-96346 through D-151155, R-9572, all KS-types, and B Test Clips.

1.02 This section is reissued to add the 789A and 832A tools. Revision arrows are used to emphasize significant changes.

1.03 See tool index, Section 074-000-001, for other Test Tool Practices.

#### 2. DESCRIPTION OF TOOLS

2.01 **757A:** The 757A tool is used in the program store circuit of the 1ESS\* switching equipment. For detailed information on how to use this tool, refer to Section 231-005-505.

2.02 **759A:** The 759A tool is a memory card acceptance checker consisting of a circuit pack, an associated switch, and a lamp equipped with a 10-inch cable. This tool is for use in the program store circuit of the 1ESS switch. For detailed information on how to use this tool, refer to Section 231-005-501.

2.03 **762A:** The 762A tool consists of two printed wiring boards connected by a cable approximately 25.5 inches long. This tool is used in the call store circuit of the 1ESS switch. For detailed information on how to use this tool, refer to Section 231-006-501.

2.04 **779A:** The 779A tool is used in all 1ESS switches (2-wire, 4-wire, and the 1ESS that are arranged with data features).

2.05 **780A:** The 780A tool is used in 1ESS switch centrex offices.

2.06 **782A:** The 782A tool (Fig. 1) is a 1ESS switch data mapping test tool. When installed in the central control (CC), it allows, by software control, the data mapping program access to all program store (PS) information blocks, but prevents PS configuration change by the operating system software.

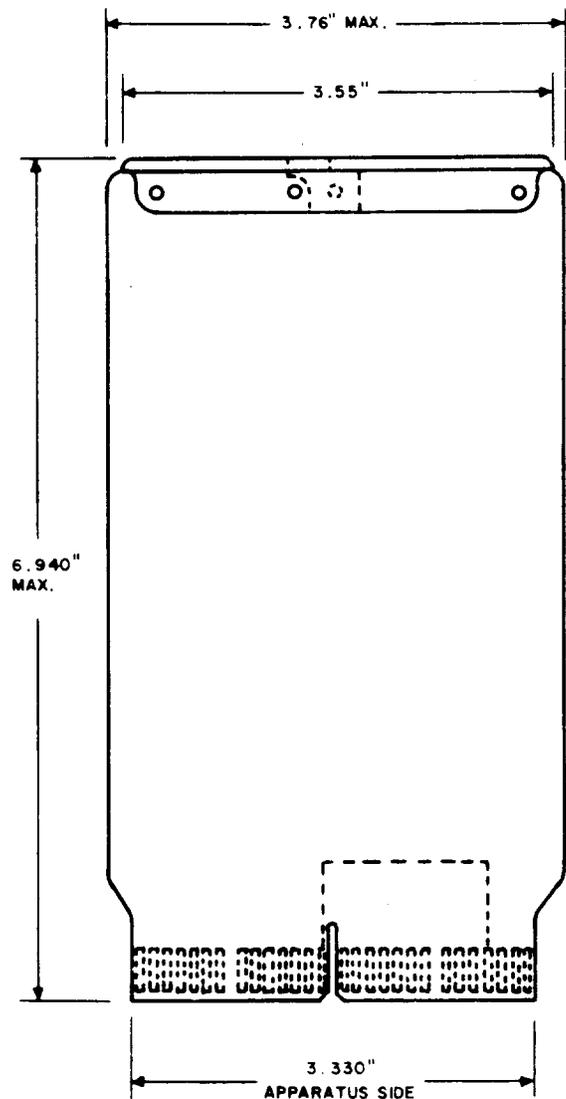


Fig. 1—782A Data Mapping Test Tool

\* Trademark of Western Electric.

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**2.07 786A:** The 786A tester tool (Fig. 2) is used in the 2-wire 1ESS switch central control buffer bus location 23 (BB23). The tool has toggle switches which can be set to multibit codes indicating specific actions to be taken under program control.

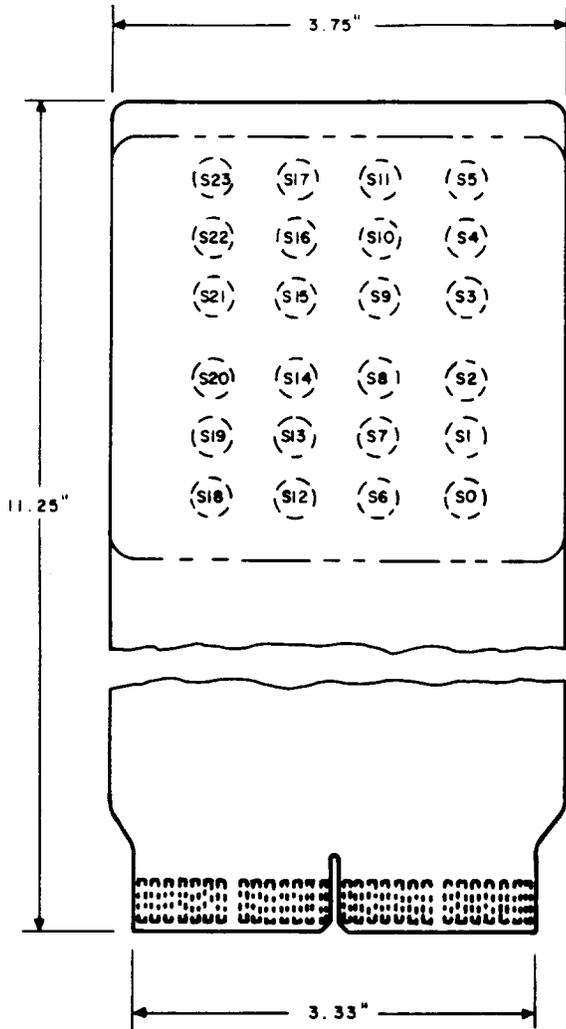


Fig. 2—786A Tester Tool

**2.08 789A:** The 789A tool (Fig. 3) is arranged for insertion into a 940A connector. This extender provides access to the 4-wire T, R, T1 and R1 leads, and also brings out ground (BAT, RTN) and resistance battery (-48V or -24V) when inserted for testing purposes.

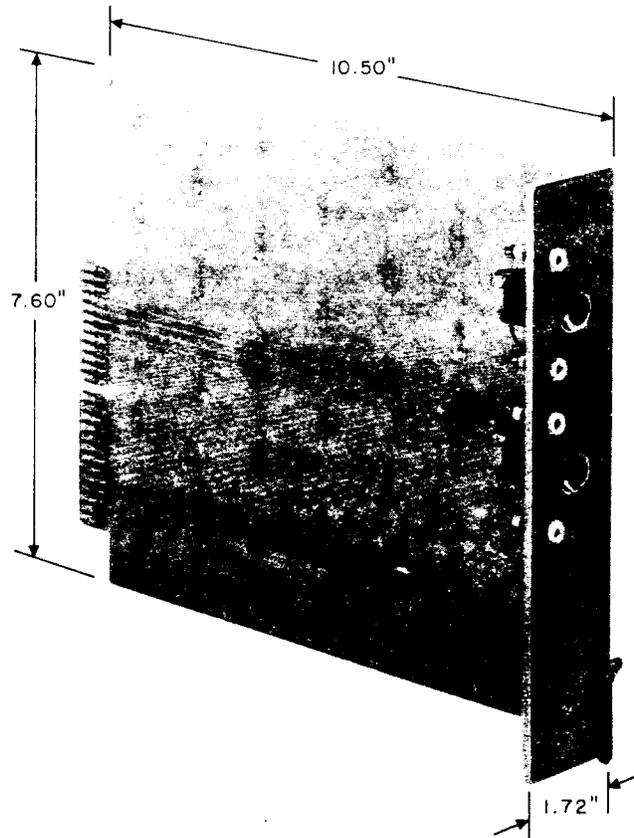


Fig. 3—789A Tester Tool

**2.09 790A:** The 790A tool is a blank printed wiring board with gold contact fingers on both sides and arranged to mate with a 908-type connector. This tool is used in the M1-2 type multiplex to inhibit office alarms, or when turned over, will activate a minor office alarm.

**2.10 791A:** The 791A balance tester tool (Fig. 4) is used on the 1ESS switch to provide test access for 4-wire, 2-way trunk circuits with scanner wire options.

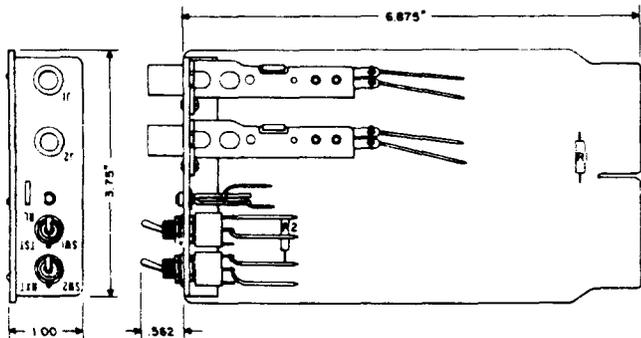


Fig. 4—791A Balance Tester Tool

**2.11 795A:** The 795A multiplex tester tool (Fig. 5) is used on the M1-2A multiplex. This tool is designed to mate with a 931 connector and will prevent alarm conditions while maintenance is being performed.

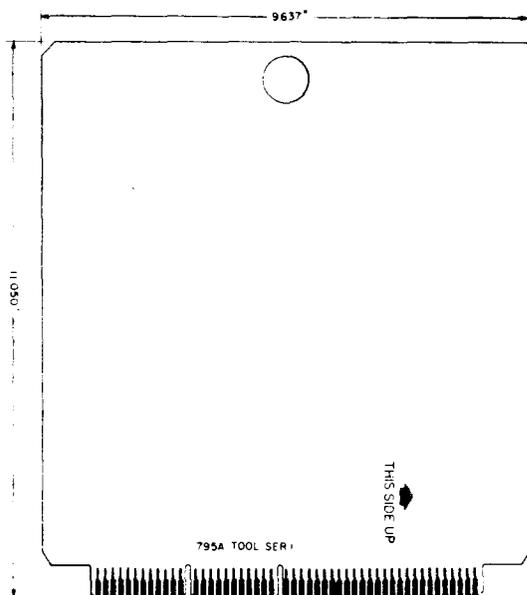


Fig. 5—795A Multiplex Tester Tool

**2.12 805A:** The 805A voltage divider network tester tool (Fig. 6) is used in replacing the Automatic Number Identification Type B (ANI-B) identifier circuit, SD-95810-01, with the new identifier circuit, SD-1C593-01.

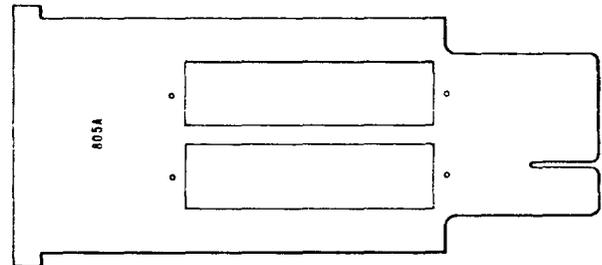


Fig. 6—805A Voltage Divider Network Tester Tool

**2.13 806A, B, and C:** The 806A, B, and C tools are used on the M13 digital multiplex frame (J98724A).

(a) **806A:** The 806A tool is a standard M13 size, two-layer printed wiring board assembly with a 1.6-inch wide faceplate which has 16 pairs of test point positions.

(b) **806B:** The 806B tool is a standard M13 size, two-layer printed wiring board assembly with a 1.6-inch wide faceplate which has 15 pairs of test point positions.

(c) **806C:** The 806C tool is a standard M13 size, two-layer printed wiring board assembly, which is completely blank except for the 90 gold-plated contact points on the end of the board.

**2.14 807A:** The 807A tool is for margin testing of the repeater in the M34 multiplex terminals and the T4 line. This tool consists of a printed wiring board with gold-plated contact points (fingers) on both sides, arranged to mate with the 931-type connectors.

2.15 **814A:** The 814A tester tool (Fig. 7) is used on the 1A processor frame to perform the head alignment test on the KS-20571 recorder.

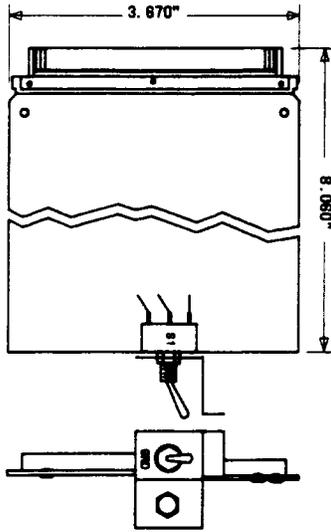


Fig. 7—814A Tester Tool

2.16 **816A:** The 816A tester tool (Fig. 8) is used as a grid removal maintenance tool when removing grids on J1A080A and J1A081A remreed frames.

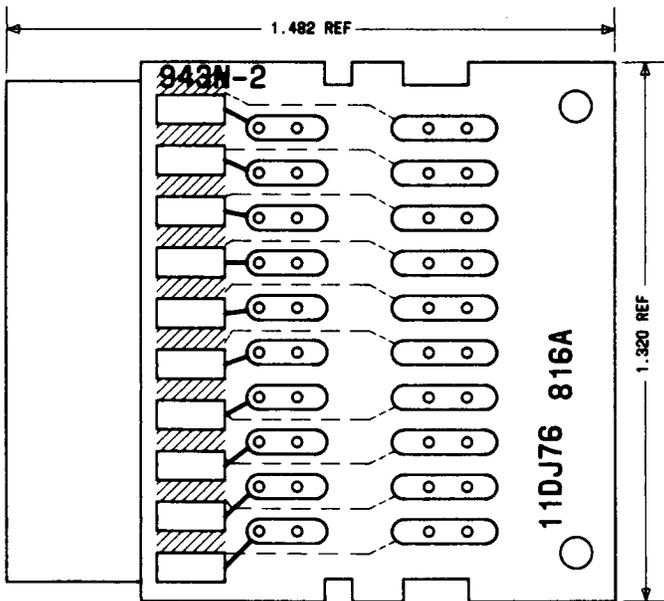


Fig. 8—816A Tester Tool

2.17 **832A:** The 832A extender tool is used to prevent an office alarm during installation and prior to service of the J98727 MIC multiplex unit. The tool consists of a blank printed wiring board with gold contact points and is arranged to mate with a 940A connector.

2.18 **870A:** The 870A tester tool (Fig. 9) consists of a manometer and an air hose assembly designed to check disk enclosure pressure on the KS-20698 disk memory.

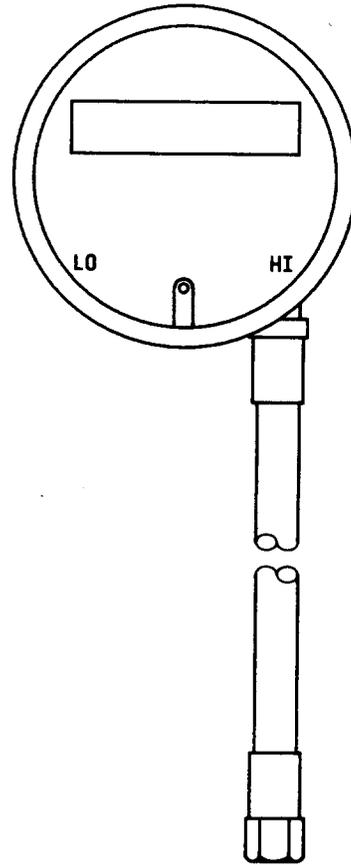
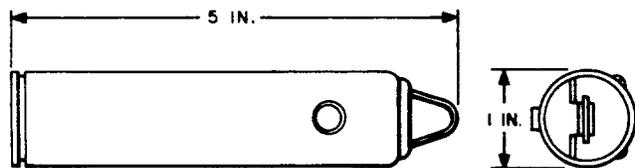


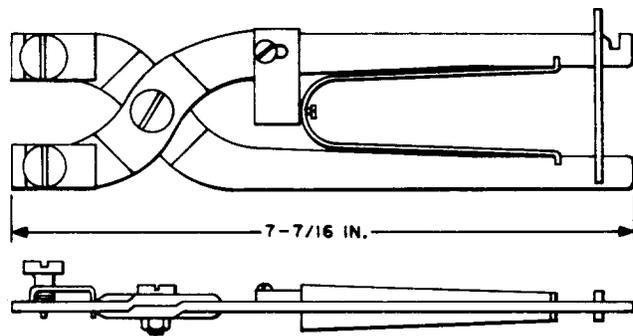
Fig. 9—870A Tester Tool

**2.19 D-96346:** The D-96346 tester tool (Fig. 10) is used in testing the B relay of secondary line switches associated with step-by-step equipment.



**Fig. 10—D-96346 Tester Tool**

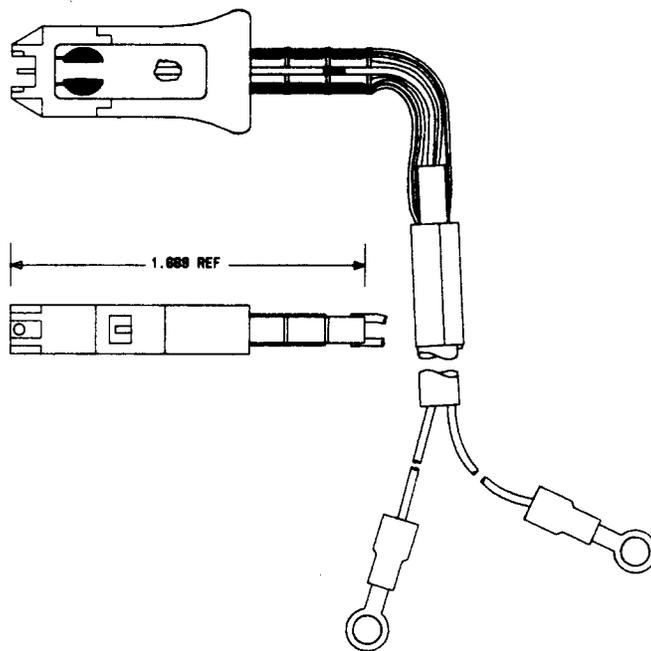
**2.20 D-151155:** The D-151155 testing tape tool (Fig. 11) is used on tape announcing machines.



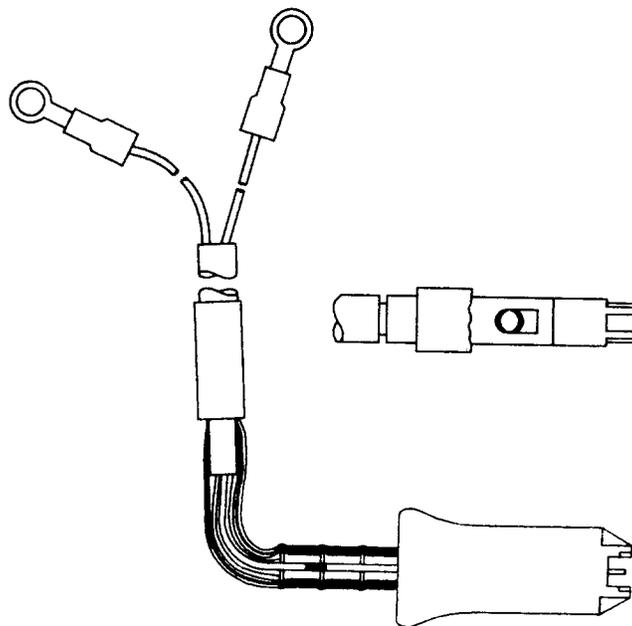
**Fig. 11—D-151155 Testing Tape Tool**

**2.21 AT-8662 C:** The AT-8662 C test cord (Fig. 12) is used to make contact with a pair of quick clip connectors in the 88-type connecting blocks. The C test cord is secured to the 88-type connecting blocks by metallic locking springs.

**2.22 AT-8662 D:** The AT-8662 D test cord (Fig. 13) is used to make contact with a pair of quick clip connectors in the 88-type connecting blocks. The test cord is secured to the 88-type connecting blocks by metallic alligator-type clips that must be depressed to place or remove the test cord.



**Fig. 12—AT-8662 C Test Cord**



**Fig. 13—AT-8662 D Test Cord**

**2.23 KS-6278:** The KS-6278 connecting clip tool (Fig. 14) is for general use on 360A, B, and C tools. The jaws can be insulated by means of a 108 cord tip (insulating tubing).

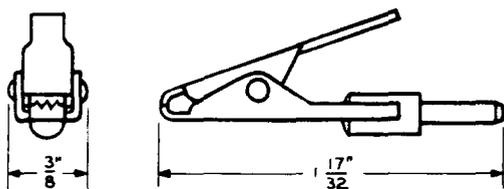


Fig. 14—KS-6278 Connecting Clip

**2.24 KS-6780:** The KS-6780 connecting clip tool (Fig. 15) is for general use on test cords when the clip is to be soldered to the cord. The jaws can be insulated by means of a 108 cord tip (insulating tubing).

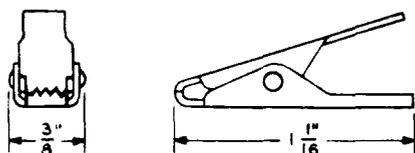


Fig. 15—KS-6780 Connecting Clip

**2.25 KS-16336, L1 and L2:** The KS-16336, L1 and L2, test clips (Fig. 16) are used on the W20F cord for making connections to distributing frame terminal strips. Clips are to be soldered to cord conductors.

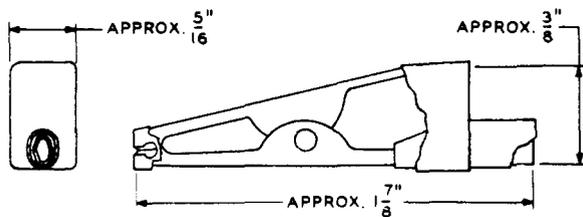


Fig. 16—KS-16336, L1 and L2, Test Clip

**2.26 B Test Clip:** The B test clip (Fig. 17) is used on 121-type protectors and 300-type connectors to provide means for connecting to the cable pairs at the test terminals. This clip is used with the M2EM cord for bypassing the protector.

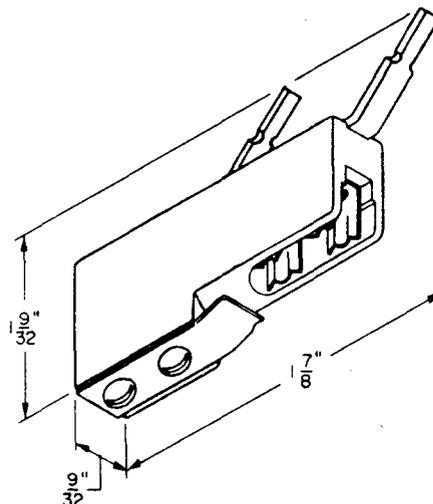


Fig. 17—B Test Clip

**2.27 B Test Clip, L2:** The B test clip, L2 (Fig. 18) consists of a spring-loaded cylinder and contact pin encased in a molded plastic body, 2-inches long, 1/2-inch wide, and 3/4-inch high. This device is used to connect test set clips to B wire connectors without damaging the connector or the connector insulation. These clips are available from:

Lumidor Products Corp.  
2500 West 6th Avenue  
P. O. Box 357  
Hialeah, Florida 33011

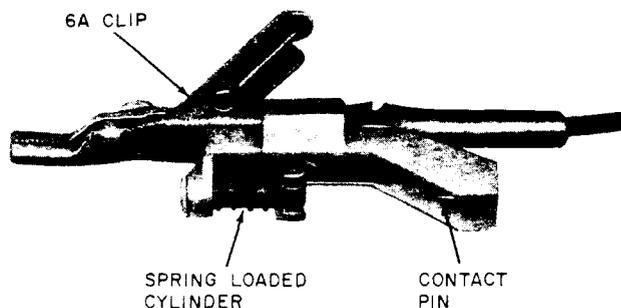


Fig. 18—B Test Clip, L2