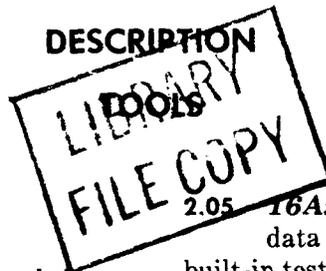


EXTENDERS

DESCRIPTION



1. GENERAL

1.01 This section describes Bell System coded extenders.

1.02 This section is being reissued to add the 832A, 900A, 901A, 907B, 907C, 908A through 917A, and 936A extender tools. Revision arrows are used to emphasize significant changes.

1.03 For similar type tools, see Adapters I, Section 074-202-114 and Adapters II, Section 074-202-115.

2. DESCRIPTION OF TOOLS

2.01 **13A:** The 13A extender is used to extend JW-type circuit packs for testing.

2.02 **13B:** The 13B extender is used to extend AR-type circuit packs for testing.

2.03 **14A:** The 14A extender (Fig. 1) is used to extend FA-, FB-, and FC-type circuit packs and provide access, shorting, grounding, and opening capability for the associated signal leads in the No. 1A and No. 3A processor.

2.04 **15A:** The 15A extender is used on the 151A power plant in the No. 3 ESS* switching equipment. This extender consists of a printed wiring board equipped with a 940A connector.

* Trademark of Western Electric.

2.05 **16A:** The 16A extender is used on 202-type data sets where mounting prevents normal built-in test accessibility. This extender consists of a printed wiring board equipped with one 908B connector and one KS-19087, L6, connector.

2.06 **17A:** The 17A extender (Fig. 2) was developed for use with miniature wire spring relay trunk circuits in No. 4A ESS switching equipment to provide access to the circuit boards. This extender will plug into any position of any housing on the frame. This extender is used on J61561 BD, BE, BF, BH, and BJ No. 4A ESS switching equipment trunk units.

2.07 **18A:** The 18A extender is used on 4-wire private lines to allow for trouble analysis. This extender consists of a printed wiring board equipped with an 840741045 connector.

2.08 **19A:** The 19A extender (Fig. 3) is used to extend the 172A regulator in the J86834B ringing and tone plant for zone 16 extended zone ringing. Two extenders are required per regulator. This extender consists of a printed wiring board assembly and a KS-21244, L1, connector attached to a bracket assembly.

2.09 **20A:** The 20A extender (Fig. 4) is used with a 23A shelf to permit the 132AE power unit to be extended 8.37 inches out of its normal position in the 80C apparatus mounting for testing and adjusting in the field.

NOTICE

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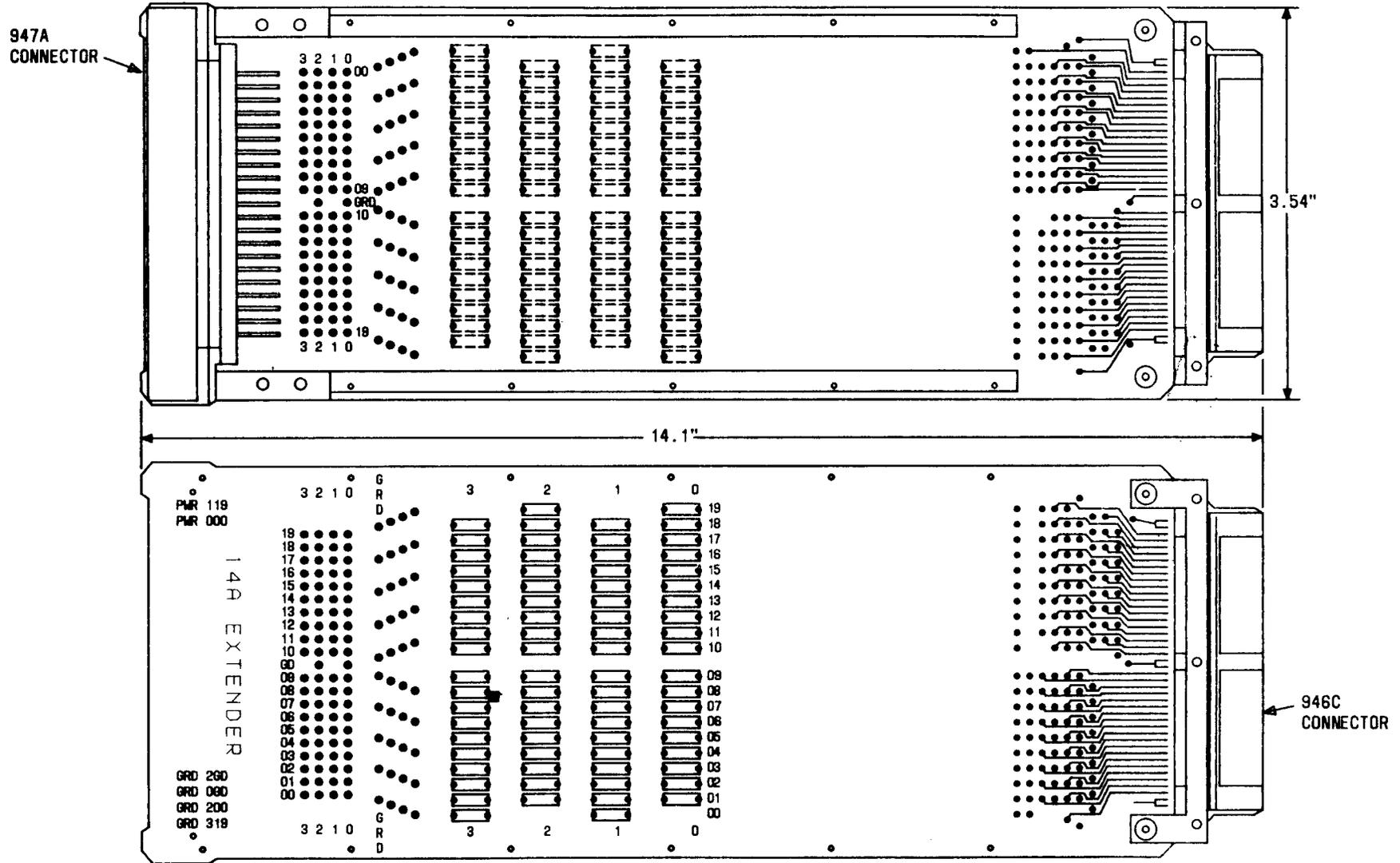


Fig. 1—14A Extender

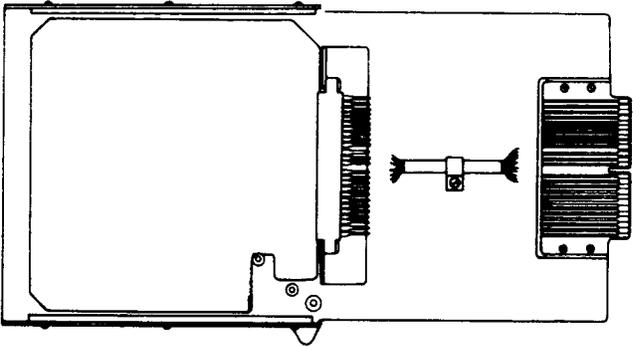


Fig. 2—17A Extender

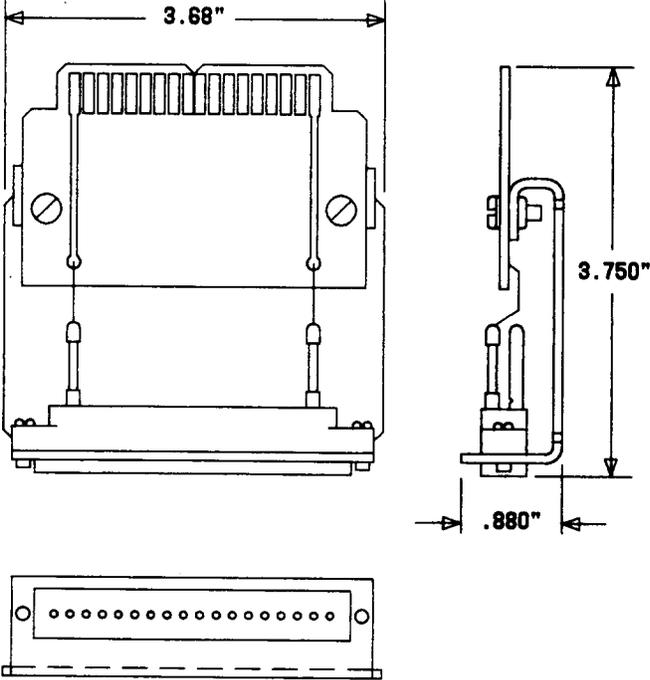


Fig. 3—19A Extender

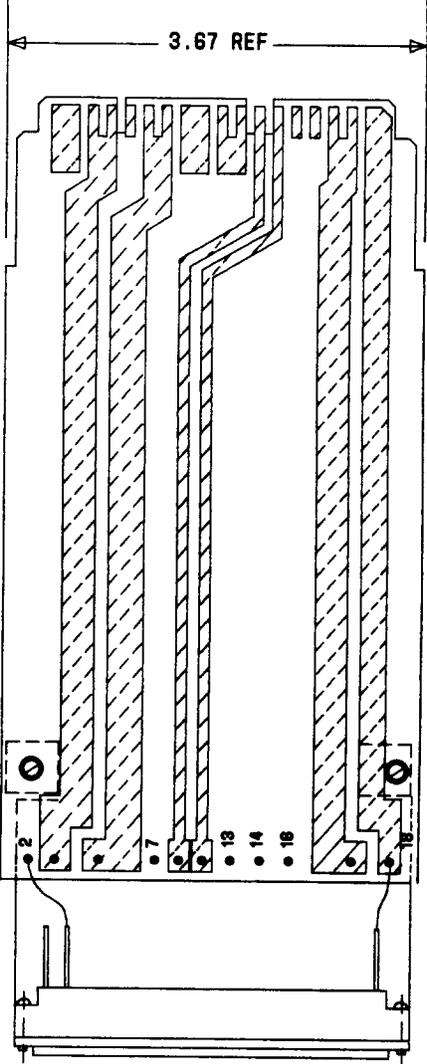


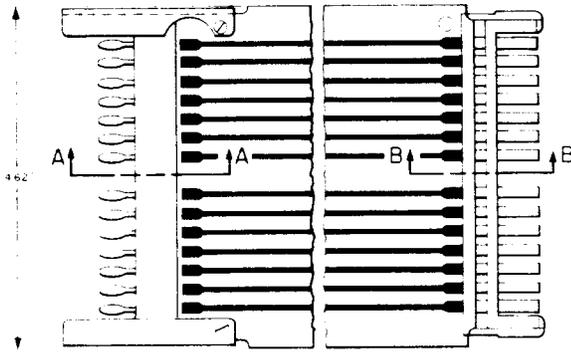
Fig. 4—20A Extender

2.10 21A: The 21A extender is used to extend AR-type circuit packs for testing. The 21A is part of the 1021A tool kit.

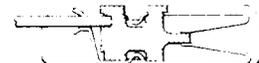
2.11 32A: The 32A extender is used for testing and trouble analysis of the 32A Communication System. This extender consists of a printed circuit board which provides access points to the backplane.

2.12 38A: The 38A extender is used in conjunction with the 190A or 191A test sets for testing the optical lines through the J98734 AR line regenerator shelf assembly. This extender consists of a printed wiring board with a faceplate assembly arranged to plug into one 941A electronic connector and two 1003A light-guide connectors.

2.13 727B: The 727B extender (Fig. 5) permits circuit packs in the No. 101 ESS switching equipment to be extended for testing purposes. This extender has 38 terminals.



SECTION A-A



SECTION B-B

Fig. 6—728B Extender Tool

2.15 794A: The 794A extender tool (Fig. 7) is used on the No. 942- and 943-type connectors.

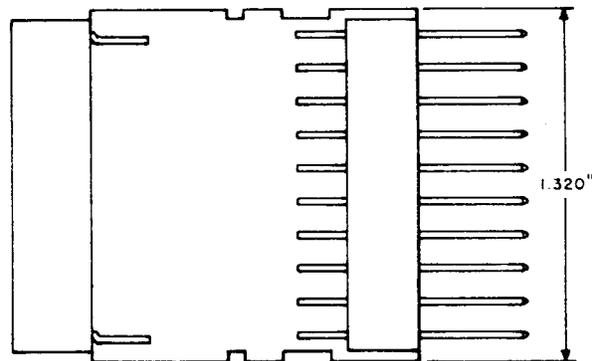
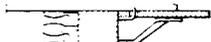
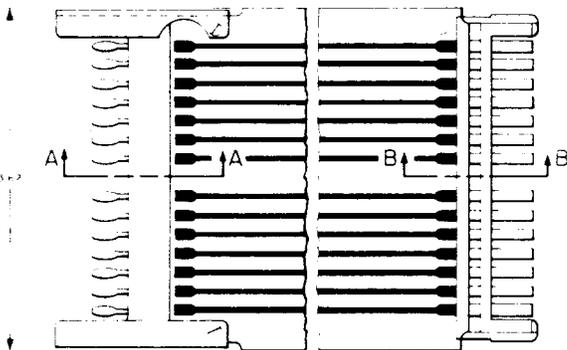


Fig. 7—794A Extender Tool



SECTION A-A



SECTION B-B

Fig. 5—727B Extender

2.14 728B: The 728B extender tool (Fig. 6) permits circuit packs in the No. 101 ESS switching equipment to be extended for testing purposes. This extender has 28 terminals.

2.16 801A: The 801A extender tool (Fig. 8) is used to extend the A699 circuit packs on the service observing unit, J3B007AC-50 for testing.

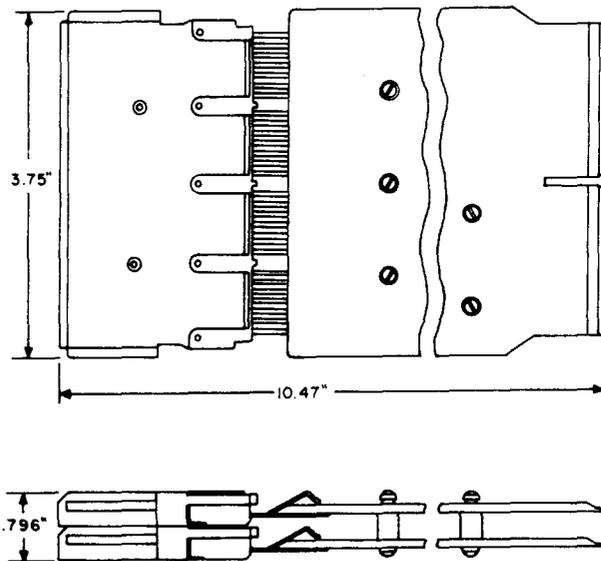


Fig. 8—801A Extender Tool

2.17 804A: The 804A extender tool (Fig. 9) is used to extend the D39 circuit packs for testing.

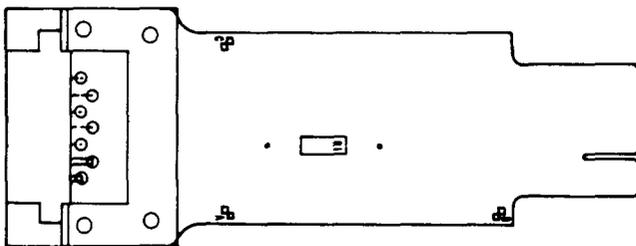


Fig. 9—804A Extender Tool

2.18 826A: The 826A extender tool is Mfr Disc. with no replacement.

2.19 826B: The 826B extender tool is used to extend FA-, FB-, and FC-type circuit packs for testing. It is an 80-pin extender.

2.20 830A: The 830A extender tool is used to extend FE-type circuit packs for testing.

2.21 830B: The 830B extender tool is used to extend FF-type circuit packs for testing.

2.22 830C: The 830C extender tool is used to extend FG-type circuit packs for testing.

2.23 900A: The 900A extender tool is used to extend the TF-type BELLPAC* circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963C-100 connector at each end of the printed wiring board.

2.24 901A: The 901A extender tool is used to extend TG-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and a 936C-100 connector at each end of the printed wiring board.

2.25 907B: The 907B extender tool is used to extend TN60 through 65, 69, 70, and WR1 BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, one 963C-208-200 connector on each end of the printed wiring board, and various other components.

2.26 907C: The 907C extender tool is used to extend TN7 and TN16 BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, one 963C-208-200 connector on each end of the printed wiring board, and various other components.

2.27 908A: The 908A extender tool is used to extend SF-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963G-50 connector on each end of the printed wiring board.

2.28 909A: The 909A extender board tool is used to extend SG-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963G-50 connector at each end of the printed wiring board.

* Trademark of Western Electric.

- 2.29 910A:** The 910A extender tool is used to extend SH-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963G-82 connector at each end of the printed wiring board.
- 2.30 911A:** The 911A extender tool is used to extend SJ-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963G-82 connector at each end of the printed wiring board.
- 2.31 912A:** The 912A extender tool is used to extend SK-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, two KS-20736, L1, capacitors, a latch assembly, and one 963G-82 connector at each end of the printed wiring board.
- 2.32 913A:** The 913A extender tool is used to extend SL-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963G-114 connector at each end of the printed wiring board.
- 2.33 914A:** The 914A extender tool is used to extend SM-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963G-114 connector at each end of the printed wiring board.
- 2.34 915A:** The 915A extender tool is used to extend SN-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963G-114 connector at each end of the printed wiring board.
- 2.35 916A:** The 916A extender tool is used to extend UL-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963L-316-300 connector at each end of the printed wiring board.
- 2.36 917A:** The 917A extender tool is used to extend UM-type BELLPAC circuit packs for testing. The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963L-316-300 connector at each end of the printed wiring board.◆
- 2.37 918B:** The 918B extender tool is used to extend UN32 and 33, TN74, 75, 76, 79, 80, and 81 circuit packs for testing.◆The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963L-316-300 connector at each end of the printed wiring board.◆
- 2.38 918C:** The 918C extender tool is used to extend UN1 through ◆8, 10 through◆ 14, 16, 18, 21 through 24, 28, 31, 34 through 37, 39, and 40 circuit packs for testing.◆The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963L-316-300 connector at each end of the printed wiring board.◆
- 2.39 918D:** The 918D extender tool is used to extend UN9, 19, and 26 circuit packs for testing.◆The extender consists of a printed wiring board, four KS-20736, L1, capacitors, a latch assembly, and one 963L-316-300 connector at each end of the printed wiring board.◆
- 2.40 930A:** The 930A extender tool is used to extend the FC-type circuit packs in the No. 2 ESS switching equipment remreed network for testing. The FC extender board assembly consists of a rigid printed circuit board terminated on one end by a connector assembly and the other end by a 946C connector.
- 2.41 ◆936A:** The 936A extender tool is used to aid in troubleshooting network frame circuits. The extender plugs into the same locations as the FC-307 circuit packs of the peripheral unit controller. It provides a resistive load to the gate leads of the peripheral unit controller to simulate the load provided by a network frame circuit.◆
- 2.42 937A:** The 937A extender tool is used to extend the LC-type circuit packs for testing. The LC-type extender consists of a rigid printed circuit board terminated on one end by a connector assembly, a latch assembly, and other component apparatus.
- 2.43 956A:** The 956A extender tool (Fig. 10) is used during the adjustment procedure of 4-wire trunk hybrid balancing networks of the Common Channel Interoffice Signaling (CCIS) Continuity Check Transceiver or the CCIS Continuity Check Diagnostic Test Circuit.

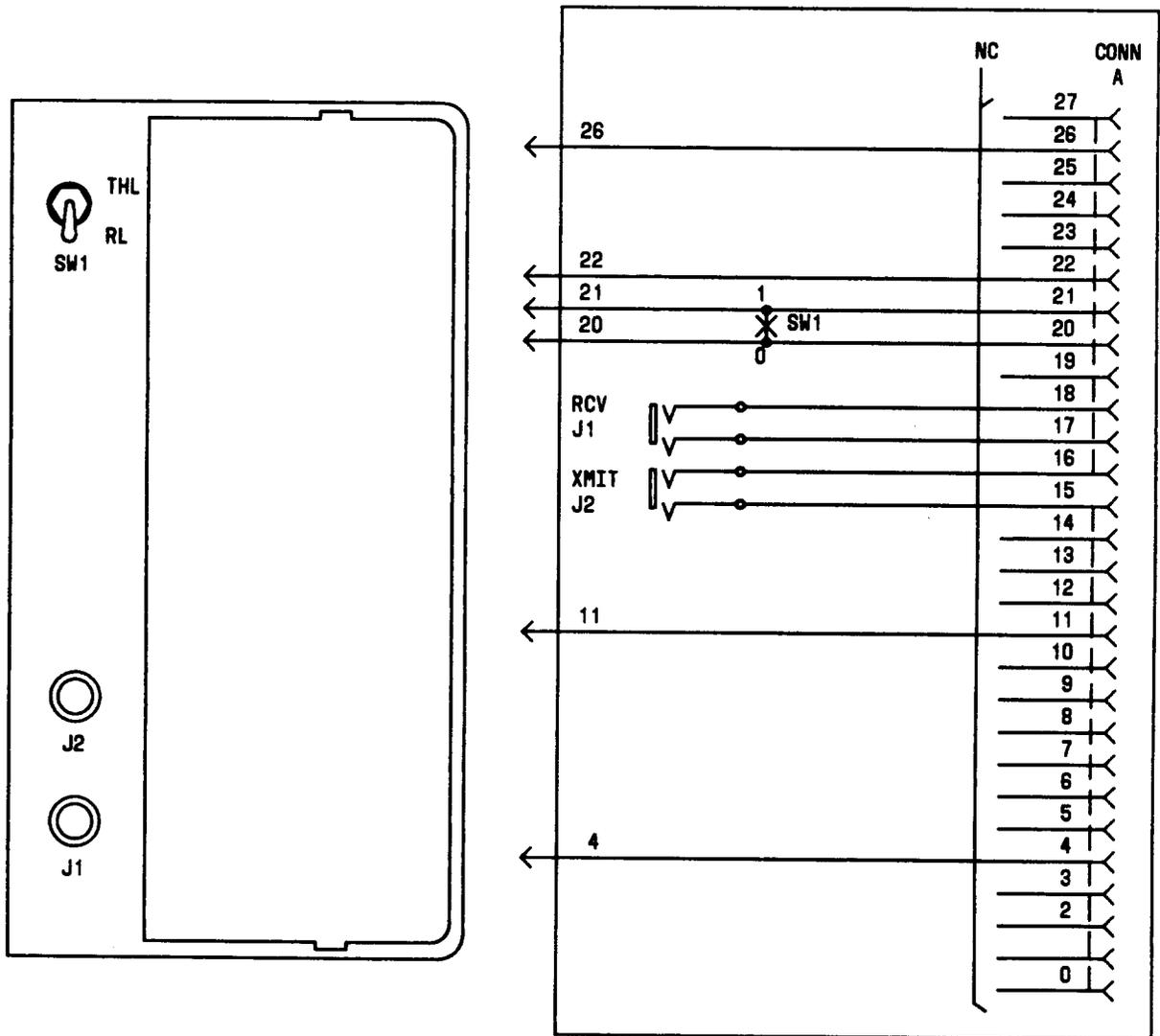


Fig. 10—956A Extender Tool