

STATION SYSTEMS
KEY TELEPHONE SYSTEM NO. 1A2
DIAL INTERCOMMUNICATING
AND MISCELLANEOUS PANELSSECTION I - GENERAL DESCRIPTION1. PURPOSE OF PANELS

1.01 The 601A, 602A, and 603A panels provide wiring, fusing (except 603A), and connecting facilities for three basic dial intercoms, deluxe dial intercom, and TOUCH-TONE® adapter circuits.

1.02 The 597A (Mfr Disc.), 597B, 598A (Mfr Disc.), and 598B panels provide wiring, fusing, and connecting facilities for fourteen 4-inch printed wiring boards. The 597-type panels accommodate boards equipped with 18- or 20-pin connectors whereas the 598-type panels accommodate boards with 18-, 20-, or 40-pin connectors.

1.03 All power and interpanel wiring terminations are made at quick-connect terminals at the rear of the panel. Connections to the central office and the stations are terminated in jacks that mate with a plug-ended cable through which the connections are completed.

SECTION II - DETAILED DESCRIPTION1. 601A PANEL

1.01 The 601A panel accommodates three basic dial intercom circuits. These are the 407B or 424A key telephone units (KTU). Each amphenol connector on the rear of the panel is associated with a basic dial intercom circuit. The quick-connect terminal field is used to connect power leads, circuit options, and TOUCH-TONE leads. This panel may be mounted on a relay rack by means of 99A brackets or equipped in a 16-type apparatus mounting by moving the center bar.

2. 602A PANEL

2.01 The deluxe dial intercom service is accommodated in the 602A panel. Jacks 3A and 3B are dedicated to the 407B or 424A KTU, jacks 2A and 2B are dedicated to the 425B KTU, jack 1A is dedicated to the 422B KTU, and jack 1B is dedicated to the 423-type KTU. When a 19-station deluxe dial intercom is employed, it may be necessary to add a 69-type apparatus mounting for the second 422B KTU that will be required to provide station busy service.

3. 603A PANEL

3.01 The 603A panel is used with the 601A and 602A panels to provide TOUCH-TONE. The panel accommodates the 426A and 427A KTUs and is outfitted with a 6-foot cable tail. The 603A panel should be mounted close to the basic or deluxe dial intercom panels.

4. 597-TYPE PANEL

4.01 The 597-type panels accommodate fourteen 4-inch KTUs which plug into 913A connectors. These connectors will handle 18- or 20-pin printed wiring boards. Terminal strip A is the signaling and power circuit for the panel whereas terminal strip B is the field option. Four 25-pair cables run from the panel to the connecting blocks and four 1-1/3 ampere fuses are used for A and B battery supplies.

5. 598-TYPE PANELS

5.01 The 598-type panels provide mounting facilities for 14 4-inch KTUs which plug into 914A connectors. These connectors will handle 18-, 20-, or 40-pin printed wiring boards. Terminal strip A is the signaling and power circuit for the panel. Ten 25-pair cables run from the panel to the connecting blocks and four 1-1/3 ampere fuses are used for A and B battery supplies.

6. MULTIPANEL INSTALLATIONS

6.01 The 590- and 600-type panels are to be installed near a 580-type panel. The 580-type panels provide interrupted lamp and ringing signals to the panels not having these facilities.

SECTION III - REFERENCE DATA1. WORKING LIMITS

1.01 The working limits are the normal working limits of the 1A2 Key Telephone System.

2. FUNCTIONAL DESIGNATIONS

None.

3. FUNCTIONS

None.

- (c) Key Telephone System No. 1A2, Dial Selective Intercommunicating Line Circuit - SD-69567-01.

4. CONNECTING CIRCUITS

4.01 The following are typical connecting circuits:

- (a) Key Telephone System No. 1A2, CO or PBX Line Circuit - SD-69513-01.
- (b) Key Telephone System No. 1A2, Tie Line and Station Line Circuits - SD-69559-01.

SECTION IV - REASONS FOR REISSUE

A. Changed and Added Functions

A.1 FS16 (597B) and FS17 (598B) are added to reflect the addition of an A1 multiple lead in each panel. The 597A and 598A panels are rated Mfr Disc.

BELL TELEPHONE LABORATORIES, INCORPORATED

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