

STATION SYSTEMS  
KEY TELEPHONE SYSTEM NO. 1A2  
584D PANEL CONNECTIONSSECTION I - GENERAL DESCRIPTION1. PURPOSE OF PANEL

1.01 The 584D panel provides wiring, fusing, and connecting facilities for a maximum of 13 plug-in 1A2 key telephone system line circuits or manual intercom circuits and a receptacle for a (separately ordered) KS-15900, L1 type interrupter or 412A KTU. By proper selection of one of two lamp option plug-in programs a wide range of installation arrangements can be accommodated.

1.02 All power and interpanel wiring terminations are made at screw 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. 584D PANEL EQUIPPED WITH INTERRUPTER

1.01 When used independently or as an originating unit in a multipanel installation, the 584D panel is equipped with the KS-15900, L1 interrupter. The interrupter provides the lamp flash (LF) and wink (LW) interruptions for a maximum of 220 lamps as well as interrupted ringing (RN), audible tone (AT), and busy tone (BT). The latter two are for use other than in the 1A2 system.

2. 584D PANEL USED INDEPENDENTLY (SEE NOTE 302)

2.01 When used independently the 584D panel is equipped with the interrupter, as described in 1.01, and the program plug is in receptacle A. Leads LF1 through LF4, LW1 through LW4, LS1 through LS4, and LG1 through LG4 are then distributed among the line circuits on the panel, allowing a total capacity of 220 lamps or an average of 17 lamps per line, conditioned by program A.

3. MULTIPANEL INSTALLATIONS

3.01 When succeeding panel 584D is not equipped with auxiliary relays (see Note 301), the originating panel is conditioned per program C, which divides the interrupter output between it and the succeeding panel. The succeeding panel is conditioned per program C. This type of installation is limited to two

panels, and allows a capacity of 110 lamps per panel.

3.02 When the succeeding panel is 584D and is equipped with auxiliary relays (see Note 302), in multipanel installations, the originating 584D panel is equipped with the interrupter and conditioned per program C. The supply lead feeding the LF3, LWS, LF4, and LW4 interrupter contacts is connected to dc ground. The LW1, LW2, LF1, LF2, LS1, LS2, LG1, and LG2 leads are routed through the C program connector to the line circuits, allowing a total capacity of 110 lamps. Leads LF3, LW3, LF4, and LW4 are connected to the winding of the auxiliary relays on the 412A KTU equipped succeeding panel(s). The relays repeat the interruptions from the originating panel and distribute them among the associated line circuits. Any succeeding 584D panels are conditioned per program A, allowing a capacity of 220 lamps per panel. The LF and LW leads from the originating panel can be multiplied to a maximum of 200 panels. This limit is dictated by the 2-amp capacity of the fuses.

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.

4. CONNECTING CIRCUITS

4.01 When this circuit is listed on a key-sheet, the connecting information thereon is to be followed:

- (a) Key Telephone System No. 1A2 CO  
or PBX Line Circuit - SD-69513-01.

5. MANUFACTURING TESTING REQUIREMENTS

None.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT 3214-DLM-GES