

SB6615B KEY TELEPHONE SYSTEM

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1.0 GENERAL

1.1 This section provides general description and installation instructions for the SAN/BAR SB6615B 1A2 Key Telephone System.

1.2 The SB6615B group of KTS's has the capability of providing all of the services normally associated with 1A2 key systems. The panel provided with the basic system will accommodate up to 14 plug-in KTU's.

1.2.1 The mounting rack has sufficient space to mount an optional second panel. This could be either the SB319A or the SB317A type panel. When equipped with the optional SB319A, the system will accommodate up to 29 plug-in 4" KTU's. The optional SB317A will permit installation of up to 12 of any combination of 18, 20, or 40-pin KTU's.

1.2.2 The upper section of the rack has sufficient space to mount the system power supply and optional SB6607A dial selective multilink intercom or 7" high auxiliary service KTU cages.

1.3 The SB6615B is intended for wall mounting and the backboard has keyholes to accept screws or lag bolts.

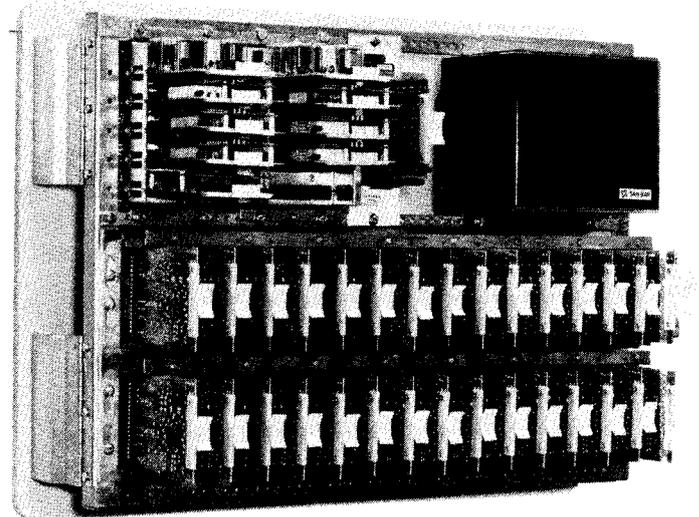


FIGURE 1

SB6615B KEY SYSTEM EQUIPPED WITH OPTIONAL PANEL AND 48 STATION DIAL SELECTIVE INTERCOM

1.4 The SB6615B is available in the following standard versions:

- SB6615B-1: Mounting rack, backboard, cover and SB319A panel.
- SB6615B-2: Same as SB6615B-1 but equipped with the SB6606A solid-state, heavy duty interrupter.
- SB6615B-3: Same as the SB6615B-2 but supplied with the SB6613A power supply.
- SB6615B-4: Same as the SB6615B-3 but equipped with the SB6607A-5, 24 station, 3 link dial selective intercom.
- SB6615B-5: Same as the SB6615B-3 but equipped with the SB6607A-8, 48 station, 6 link dial selective intercom.

1.5 The SB6615B family of systems is also available on special order with the SB6600A Power Supply Group (SB6601A ringing generator, SB6602A 105-220VAC, 47-63 cycle power supply and SB6603A talk filter). This version is intended for those locations having 220VAC prime power source.

2.0 SPECIFICATIONS

2.1 List of Applicable Circuit Descriptions:

- a. Panel: Section 319A-000, 319A Key Service Panel.
- b. Power Supply: Section 6613A-000, SB6613A Power Supply.
- c. Intercom: Section SB6607A-000, SB6607A Intercom Unit.
- d. Interrupter: Section 6606B-000, SB6606B Solid State Interrupter.

2.2 Electrical Characteristics

- a. Number of CO/PBX lines: 14, Optionally expanding to 29.
- b. Operating Environment: 0-50°C; humidity to 90%.
- c. Lamp Flash: Flashing visual signal on incoming calls.
- d. Station or Common Audible: Optional signaling on incoming calls; steady or interrupted (20VAC or 105VAC)
- e. Line Busy: Steady lamp signal during line busy condition.
- f. Hold: Individual holding of calls on any line.
- g. Lamp Wink: Winking visual signal during hold condition.

2.3 Physical Characteristics

- a. Dimensions: 19¼" H x 25½" W x 10½" D.
- b. Mounting: 16" centers
- c. Cover: Metal, latches to two retainer pins.
- d. Panel Assembly: The KTS provides two sections for mounting equipment. The lower half provides mounting for up to two 23" Key Service Panels (such as SB319A, SB317A, etc.). The upper half provides standard 7" mounting centers for the SB6613A Power Supply and SB6607A Intercom.
- e. All distribution connections are made via Amphenol Plugs.
- f. Wiring for Special Features: Factory pre-wired to permit provision of special features by plug-in of appropriate KTU's which are also available from SAN/BAR.
- g. Weight: 28 lbs. excluding power supply and KTU's.

2.4 SB6613A Power Supply

2.4.1 INPUT: 103-127 VAC, 60 Hz

2.4.2 OUTPUTS

- a. 10VAC \pm 1V Lamp Supply@4A continuous or 8A intermittent
- b. 20VAC \pm 2V@1.5A continuous (Buzzer supply)
- c. 20-26VDC @2A continuous (B-Battery) Signal
- d. 24VDC \pm 1V @.7A continuous (A-Battery) Talk
- e. 105VAC, 30HZ @50 Ma (Ringing Gen.)

2.4.3 Input Protection: 2 AMP Fused

2.4.4 Output Protection:

- 10VAC: 8A, Two 4A fuses
20VAC: 2A, fused
B-Battery: 3A, fused
A-Battery: Short-Circuit Proof
105VAC Ringing Generator is inherently self-limiting

3.0 INSPECTION

Inspect the unit thoroughly as soon as possible after delivery. Visually inspect for broken or loose wires, chassis or cover damage. If any part of the unit has been damaged in transit report the extent of the damage to the transportation company immediately.

4.0 MOUNTING

The SB6615B is designed for wall mounting and must be mounted firmly to the wall surface. Mounting holes are provided on the backboard for use with lag bolts or screws. Locate the desired position for the KTS and mark the top keyhole locations, install the lag bolts or screws and then mount the SB6615B mounting rack and tighten the lag bolts or screws.

5.0 INSTALLER CONNECTIONS

5.1 The SB319A panel of the SB6615B is supplied with a factory wired harness pre-connected to the SB6613A power supply (when power supply is ordered). No installer connections to the power supply are required except for chassis ground. See section 6613A-000 for additional details of the power supply.

5.2 The SB319A is factory strapped for mounting up to 14 standard KTU line circuits, with signal leads distributed via standard 25 pair amphenol connectors. See Section 319A-000 Tables I & II for detailed information.

5.2.1 Position 15 is strapped to accept the SB6606B Solid-State Interrupter. No additional or special wiring is required for installation. For additional information on the SB6606B, see Section 6606B-000 Circuit Description for that unit.

5.2.2 When the SB6615B is to be equipped with two SB319A panels, strapping between the two panels should be in accordance with Figure 4 of Section 319A-000 Circuit Description.

5.3 When the SB6615B is to be equipped with the SB6607A Dial Selective Intercom follow the procedures for the installation of that system contained in Circuit Description 6607A-000 (supplied with intercom). If the system is to be equipped for DTMF dialing, the SB6607A must be equipped with the SB6607A-800 Tone Converter. This unit has standard KTU line circuit connections and is normally installed in an auxiliary card mount on the upper section of the mounting rack adjacent to the power supply.

5.4 The line circuit capacity of the SB6615B system may be increased by one circuit by moving the SB6606A interrupter to an auxiliary card mount. In such instances restrapping of the SB319A must be accomplished in accordance with the instructions contained in the Circuit Description for that unit.

6.0 TESTING

6.1 Key Telephone System

If trouble is encountered with the 6615B Key Telephone System, check that all installer connections or strap options have been made properly. Refer to the individual circuit card descriptions for test of the units. The KTS fixture contains no electrical components that are normally considered subject to failure. However, possible wire breakage or poor wire terminations may be verified using normal continuity checking procedures with a standard multi-meter (Simpson 263 or equivalent).

6.2 Power Supply Assembly

If the system difficulties is determined to be related to the power unit, make sure that the system power requirements have not exceeded the power supply rating specified in section 2.0. Make sure that the installer connections are made properly. If trouble persists, verify that all power supply voltage outputs are present using a standard multimeter. Refer to the schematic diagrams for locating where the outputs appear. (NOTE: It may be necessary to remove the power supply from the KTS to verify the problem if it is due to shorts in the system.)

6.3 If it has been determined that there has been a card, chassis, or power failure; do not attempt to make field replacement of electrical parts. The SB6610B is warranted for a period of 2 years from date of purchase.

Return unit to:

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For technical assistance call:
(714) 546-6500