

SAN/BAR CORPORATION

MODEL SB423A MANUAL INTERCOM CARD



The SB423A Manual Intercom Card is an 18 contact plug-in type printed circuit card, designed to provide local intercom service when used with a San/Bar 6600 or equivalent 10A2 and 1A2 Key Telephone Systems.

The SB423A provides talk battery current and battery build out through a battery feed choke. The unit also provides relay contacts for busy lamp control and has an extra set of relay contacts for local engineering use.

ELECTRICAL SPECIFICATIONS

- a. Source Voltage range: 20 to 26 VDC
- b. Current Drain:
 Relay Nominal: 25 MA DC
 Relay Maximum: 28 MA DC
 Relay Contacts: 28 VDC 2 Amp/110 VAC
 .5 Amp
 Loop Current: Maximum 120 MA DC
 Insertion Loss: 0.1 db Maximum 300 Hz to
 3.2K Hz
- c. Temperature Range: 0°C to 55°C.
- d. Physical Size: Standard 4 x 4.9 inch KTU size, with printed circuitry on one side of the card. One end of the card has 18 contacts for plugging into an 18 contact connector. All components are mounted on one side.
- e. Card Spacing Requirement: Card will fit into mounting shelves with standard 1.437 inch centers.
- f. Card Keying: Card is keyed between pins 5 and 6 and pins 12 and 13.
- g. The SB423A will plug into the San/Bar 6600 KTS or equivalent 10A2 or 1A2 Key Systems.

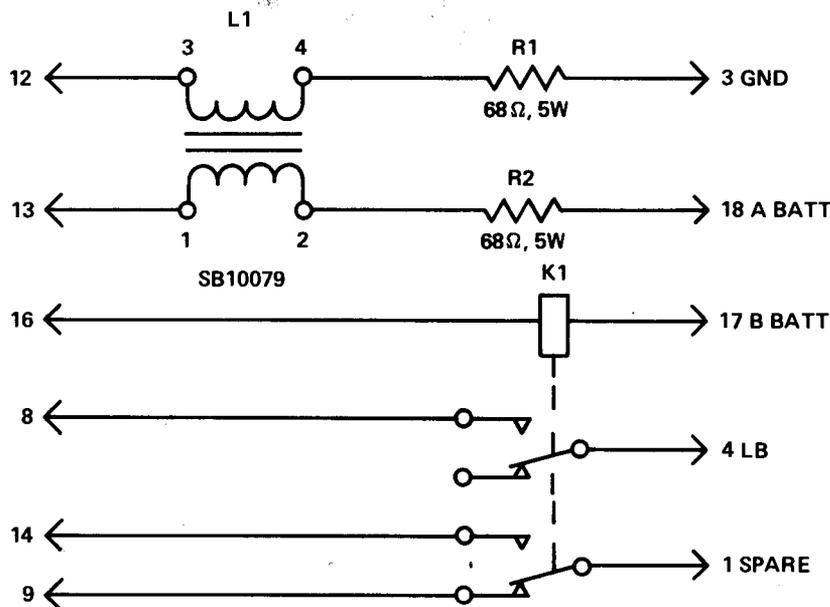
OPERATION:

Operation of the intercom circuit is initiated by depressing the line pick-up key associated with the manual intercom circuit, lifting the telephone handset off-hook and then depressing the signal button to signal the called party. The called party, upon receiving the signal, depresses his line pick-up key and lifts the telephone handset off-hook. The intercom circuit is now ready for operation.

The SB423A provides talk battery current from the A battery of the Key Telephone System. Current flows through pins 3 and 18 of the card through current limiting resistors R1 and R2 to the windings of the battery feed choke, to pins 12 and 13 which are connected to the line pick-up key on all phones associated with the manual intercom line. The line pick-up key also connects pin 16 to a ground which in turn is connected to relay coil K-1. K-1 will energize to close a set of normally open relay contacts connected between pins 4 and 8. These contacts are used to control the busy lamps on the key telephones. A spare set of relay contacts are connected to pins 14, 9 and 1 on the SB423A card.

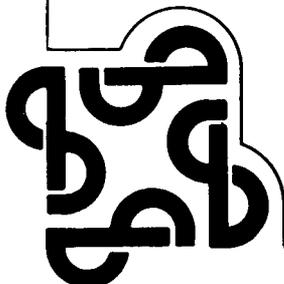
There are no provisions on the SB423A card for audible signaling; signaling must be done with an external device.

INSTALLATION DRAWING



SAN / BAR CORPORATION

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SAN/BAR CORPORATION
Circuit Description
Installation Series

C-D 0423-00 CIRCUIT DESCRIPTION
FOR MODEL 423A MANUAL INTERCOM

The Model 423A manual intercom line circuit card is a plug-in type printed circuit card. It will provide local intercom service when plugged into a San/Bar 600 K.T.U. or equivalent.

The 423A will provide talk battery current and battery build out through a battery feed choke. The 423 also provides relay contacts for busy lamp control. An extra set of relay contacts is also provided for local engineering use.

The 423 provides talk battery current from the A battery of the K.T.U. system. The current flows through pins 3 and 18 of the card, then through current limiting resistors R1 and R2 on through the windings of the battery feed choke. Then from the windings of the choke to pins 12 & 13 of which are connected by a line pick-up key to all phones associated with the manual intercom line. The line pick-up key also connects pin 16 to a ground which in turn is connected to relay coil K-1, and K-1 will energize to close a set of normally open relay contacts that are connected between pins 4 and 8. These contacts are used to control the busy lamps on the key telephones. A spare set of relay contacts are connected to pins 14, 9 and 1 on the 423A card.

There are no provisions on the 423A card for audible signaling. This must be done with external signaling devices.

Operation of the intercom circuit is initiated by depressing the line pick-up key associated with the manual intercom circuit, then lift the telephone handset off hook. The signal button must be depressed to signal the called party, the called party will depress their line pick-up key and lift the telephone handset, the intercom is now ready for operation.