P.B.X. SYSTEMS
NO. 750-A
STATION CIRCUIT

CHANGES

A. CHANGED AND ADDED FUNCTIONS

   A.1   No change.

B. CHANGES IN APPARATUS

   B.1   No change.

C. CHANGES IN CIRCUIT REQUIREMENTS OTHER THAN THOSE
     APPLYING TO ADDED OR REMOVED APPARATUS

   C.1   No change.

D. DESCRIPTION OF CIRCUIT CHANGES

   D.1   Reissued to change the rating from "A. T. & T. Co.
          Standard" to "Mfr. Disc." and to add the replacing
          note "Replaced by SD-66437-01".

DEVELOPMENT

1. PURPOSE OF CIRCUIT

   1.1   This circuit shows the station equipment for the
          750-A P.B.X.

2. WORKING LIMITS

   2.1   None.

OPERATION

3. FUNCTIONS

   3.1   To provide a telephone equipped with keys for con-
          necting to any one of three central office trunks,
          a key as a means of connecting a holding circuit
          to any of the trunks and a key for releasing the
          trunk keys, and connecting the station to a local
          intercommunicating circuit.

3.2   To provide an audible signal at the called station
      after it has been dialed by another local station.

3.3   To provide means for extending trunk calls to
      stations which do not have trunk keys, for ring-
      ing the bells at such stations and for monitoring
      on the connections.

3.4   To provide a dial by means of which any local
      station can effect a connection with any other
      local station or with an outside subscriber if in
      a dial central office district.

4. CONNECTING CIRCUITS

4.1   750-A P.B.X. Trunk Circuit

4.2   750-A P.B.X. Line and Link Circuit

4.3   750-A P.B.X. Tone, Ringing and Alarm Circuit.

4.4   Standard Dial Station.

4.5   750-A P.B.X. Emergency Transfer Key Circuit.

DETAILED DESCRIPTION

5. LOCAL CALLS

      Stations equipped with handsets as shown in
      Figure 1 will have five keys designated (1), (2),
      (3), (H) and (L) located in the handset base.
      Stations equipped with desk stands as shown in
      Figure 2 and wall sets as shown in Figure 3 will
      have auxiliary keys of the same designations as
      in the handset. To make a local call, the (L)
      key is operated and the receiver removed from the
      switchhook; at stations not equipped with trunk
      keys the receiver is removed from the switchhook.
      Dial tone will be heard in the receiver as an in-
      dication that dialing may proceed.

      Inward calls will be indicated by the ringing of
      the bell in the subset. In answering, the (L)
      key must be depressed at stations equipped with
      trunk keys.

6. TRUNK CALLS

6.1 Outgoing

      To make a call to central office, one of the trunk
      keys (1), (2), or (3) is depressed and the re-

ceiver removed. If the trunk chosen is busy, a
busy tone will be heard in the receiver.

6.2 Incoming.

An incoming call will be indicated by the ring-
ing of one of the trunk gongs and the lighting
of a trunk lamp shown on the trunk circuit. These
signals will be distinctive in order to show on
which trunk the call is being made. To answer
the call, the trunk key (1), (2) or (3) accord-
ing to the trunk signal operated must be depres-
sed and the receiver removed.

7. TRANSFERRED CALLS

To transfer a call, either incoming or outgoing,
the (H) key is depressed for a short interval.
The station to which the call is to be trans-
ferred may then be called locally by depressing
the (L) key and dialing. The station calling
must then be informed to which trunk the call
is connected. To connect to the trunk, the sta-
tion must then operate the proper trunk key, (1),
(2) or (3) after being released from the local
connections.

8. CALLS TO KEYLESS STATIONS

Trunk calls may be extended to stations which do
not have trunk keys by a station which is equip-
ped with the keys shown in Figure 4 or 5. To
extend an inward call, the (Mon) key must first
be operated in order to determine whether or not
the station is busy. If the station is idle, the
(Talk) and (Ring) keys should then be operated to
ring the station bell. When the station answers,
a talking connection will be completed to the
central office. During talking the station at
which the keys are located may not make another
call, but may listen in or hang up as desired.
When the trunk conversation is terminated all
keys should be restored to normal.

9. CALLS FROM KEYLESS STATIONS

In order to originate a trunk call, keyless sta-
tions must dial the station equipped with keys
per Figures 4 and 5. The trunk key (1), (2) or

(3) and the (Talk) key at that station are then operated, connecting the calling station to the trunk.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-C

VMH) GS
WHM)