

CIRCUIT DESCRIPTION

CD-65773-01
Issue 5-D
Dwg. Issue 6-D

PBX SYSTEMS NO. 552A, 552D, 556A, 605A, 608A 701B, 711B, OR 740E BATTERY CUT-OFF CIRCUIT

CHANGES

B. CHANGES IN APPARATUS

- B.1 Superseded Superseded by
BCO-KS-5721, L54 BCO-KS-5721, L22
Relay Relay
Fig. 1 Opt.W Fig. 1 Opt.V

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Title is changed to include 608A PBX
D.2 Connecting information in Fig. 1 and 3 is revised for use with 608A PBX.
D.3 CAD figures are revised
D.4 "W" option is designated and "V" option is added.

1. PURPOSE OF CIRCUIT

- 1.1 This circuit is used to provide for cutting off the battery for certain circuits used in the dial equipment which otherwise might lock up when the attendant's switchboard is unattended.
1.2 Provision is made for controlling the ringing supply to the attendants switchboard when the ringing supply is obtained from the dial equipment.

2. WORKING LIMITS

- 2.1 Maximum Voltage drop between attendant switchboard and dial equipment. Ground lead 0.5 volts.

3. FUNCTIONS

- 3.1 To control the battery supply for the attendant's switchboard and for circuits in the dial equipment which may be locked up when the attendant's switchboard is unattended.
3.2 To control the ringing supply when attendant's switchboard is supplied from the dial equipment.

4. CONNECTING CIRCUITS

When this circuit is shown on a key-sheet, the connecting information thereon shall be followed.

- 4.1 Power Ring Circuit - SD-81337-01*
4.2 Tone, Ringing and Interrupter Circuit - SD-65675-01*.
4.3 556A Cord, Telephone, Dial Battery, Buzzer and Ringing Circuit - SD-65658-01.
4.4 No. 608A Aux. Sig., Fuse Alarm, Bat. cut-off and Misc. Ckt. - SD-66722-01.

*Typical

5. DESCRIPTION OF OPERATION

- 5.1 When a 552A, 552D or 605A switchboard is used as the attendant's switchboard with 701B dial equipment, Figs. 1 and 2 are provided for control of the battery cut off and the power ringing supply circuits. With the ECO key normal and "X" wiring, ground on the MS lead causes the power ring equipment to function. The ECO relay (Fig. 2) will be normal and battery will be connected to the battery cut-off fuse panels. When the switchboard is not attended, the BCO key will be operated and with "X" wiring the power ringing equipment will not be under control of the BCO key. The BCO relay will be operated and battery will be cut off from the battery cut-off fuse panels.

Lead ACO will be grounded toward the 701B miscellaneous alarm circuit to cut off the audible signal associated with the alarm system.

- 5.2 When a 552A or 552D switchboard is used with 740E dial equipment, Figs. 2 and 3 are provided which function the same as described in Paragraph 5.1.

- 5.3 When a 556A switchboard is used with 740E dial equipment, Fig. 3 is provided in the dial equipment and functions with a key in the Cord, Tel, Dial, Battery, Buzzer and Ringing Circuit of the 556A switchboard.

- 5.4 When a 605A switchboard is used without dial equipment, Fig. 4 is provided which consists of a double pole single throw toggle switch. This switch when operated connects battery to the battery cut-off fuse panels.

5.5 When a 608A switchboard is used with 701B dial equipment, Fig. 1 is provided which functions with a BAT key in the Auxiliary Signal, Fuse Alarm, Battery cut-off and Miscellaneous circuit of the switchboard. With the BAT key in the ON position the BCO relay will be normal, battery will be connected to the switchboard and relay rack fuse panel bus bars, and ground will be connected to the MS lead starting the power ringing equipment. With the BAT key in the OFF position ground is connected to the BCO and ACO leads and removed from

the MS lead. Relay BCO will operate to remove battery from the switchboard and relay rack fuse panel bus bars; the audible signal associated with the 701B alarm system will be cut off, and the power ringing equipment will be stopped.

5.6 When a 608A switchboard is used with 740E dial equipment, Fig. 3 is provided and operation is as described in paragraph 5.5 except that the ACO lead is not provided.

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