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PBX SYSTEMS
NO. 701A, 701B, 701PK OR 740E
INTERCEPTING TRUNK CIRCUIT
FROM VACANT SELECTOR LEVELS
ATTENDANT TRUNK CIRCUIT
FOR USE WHERE TIE TRUNK CIRCUITS
ARE CONNECTED TO STATION LINE CIRCUITS,
INCOMING SELECTOR, OR SELECTOR
CONNECTOR CIRCUITS

CHANGES

D. Description of Changes

D.1 The connecting information is changed to permit the use
of the circuit with a 608B or 608D switchboard.

F. Changes in CD Sections

F.1 Under 4. CONNECTING CIRCUITS, add:

4.18 No. 608D Cord Circuit - SD-67034-01

4.19 No. 608D Jack and Lamp Circuit - SD-65997-01

4.20 No. 608D Auxiliary Signal, Fuse Alarm, Battery Cut-Off
and Miscellaneous Circuit - SD-67039-01

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT 5333-FWW-RDW

CIRCUIT DESCRIPTION

CD-66716-01
Issue 4D
Appendix 4D
Dwg. Issue 8D

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D. DESCRIPTION OF CIRCUIT CHANGES

D.1 "Z" option is added in Figure 1 and CAD 1
for connection to Traffic Usage Recorder
Circuit.

F. CHANGES IN DESCRIPTION OF OPERATION

F.1 In Section 4, add "4.17 Traffic Usage
Recorder Circuit SD-95738-01".

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 5336-JJH-FNR-WJ

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CHANGES

D. DESCRIPTION OF CHANGES

- D.1 CADs 1 and 14 are revised to include the
"M" lead to the DF.

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NY-5336-JJH-FNF-NR

CIRCUIT DESCRIPTION

CD-66716-01
Issue 4D
Appendix 2D
Dwg. Issue 6D

PEX SYSTEMS
NO. 701A, 701B, 701PK, OR 740E
INTERCEPTING TRUNK CIRCUIT
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ATTENDANT TRUNK CIRCUIT
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INCOMING SELECTOR OR SELECTOR
CONNECTOR CIRCUITS

CHANGES

D. DESCRIPTION OF CHANGES

- D.1 The title is revised to change the
701C PEX System to read 701PK PEX
System.
- D.2 CAD 15 is removed, former CAD 16 is
changed to read CAD 15, former CAD 17
is changed to read CAD 16.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 5336-JJH-EvdL-RL

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INCOMING SELECTOR OR SELECTOR
CONNECTOR CIRCUITS

CHANGES

D. DESCRIPTION OF CHANGES

- D.1 The title is changed to include the 701C PBX System.
- D.2 Equipment Information "J58842A" is added.
- D.3 CAD Figures 1, 3, 5, 6 and 7 are changed to include connecting information for the 701C PBX System.
- D.4 CAD Figures 14, 15, 16 and 17 are added.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 5336-JJH-EvdL-DB

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CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 The title is changed in the interest of clarity.
- D.2 Connecting information for Fig. 1 is revised.
- D.3 Reference to Swbds. 552A, 552D, 556A or 605A with night alarm or buzzer circuit connected to ground is added to Note 102.

1. PURPOSE OF CIRCUIT

- 1.1 This circuit is used to route calls from selector levels to the attendant.

2. WORKING LIMITS

- 2.1 Maximum external circuit loop - 2500 ohms.
- 2.2 Minimum insulation resistance - 20,000 ohms.

3. FUNCTIONS

- 3.1 Lights the line lamp on incoming calls.
- 3.2 Extinguishes the line lamps when the attendant answers.
- 3.3 Reverses battery for supervision on tie lines.
- 3.4 Holds the selector busy until the attendant disconnects.
- 3.5 Opens the line toward the switchboard when the calling station disconnects to give a disconnect signal to the attendant.
- 3.6 Provides for the calling station to flash the attendant.
- 3.7 Provides for ringing tone to be supplied to the calling station until the attendant answers.

4. CONNECTING CIRCUITS

- 4.01 First Selector Circuit - SD-66359-01.
- 4.02 Incoming First Selector Circuit with Dial Tone - SD-66594-01.
- 4.03 Incoming First Selector Circuit without Dial Tone - SD-66360-01.
- 4.04 Second Selector Circuit - SD-66010-01.
- 4.05 2-digit Rotary Hunting Selector - SD-66302-01.
- 4.06 Rotary Hunting Selector Connector - SD-65721-01.
- 4.07 552A, 552D, or 605A Cord Circuit - SD-66198-01.
- 4.08 556A Cord Circuit - SD-65658-01.
- 4.09 607A Cord Circuit - SD-66707-01.
- 4.10 607B Cord Circuit - SD-65670-01.
- 4.11 552A or D Buzzer Circuit - SD-66467-01 or SD-66014-01.
- 4.12 605A Buzzer Circuit - SD-66467-01.
- 4.13 607A or 607B Night Alarm Circuit - SD-66653-01.
- 4.14 552A, 552B, 552D, 552E, 605A, 607A, 607B or 608A Jack Circuit for Attendant Switchboard positions - SD-65778-01.
- 4.15 608A Cord Circuit - SD-66720-01.
- 4.16 608A Auxiliary Signal, Fuse Alarm, Battery Cut-off and Miscellaneous Circuit - SD-66722-01.

5. DESCRIPTION OF OPERATION

When this circuit is seized by a selector the L relay operates. Relay L operated (1) closes the S inductor across the line toward the switchboard for supervision and (2) operates relay B. Relay B operated (1) removes the 1200 ohm battery from the

sleeve, (2) connects ground to the sleeve to hold the switches, (3) connects ringing tone to the tip side of the line, (4) completes ground to lead G to operate the night alarm or the 608A auxiliary signal, fuse alarm, battery cut-off and miscellaneous circuit, and (5) completes the circuit to light the line lamps. When the attendant answers the call by inserting the plug of a PBX cord into the jack, relay SL operates from the sleeve of the jack in Fig. 2 or from ground on the SL lead Fig. 3. Relay SL operated (1) removes ground from lead G to retire the buzzer or night alarm circuit, (2) connects an additional ground to the sleeve leads (3) reverses battery and

ground toward the line to provide supervision at the originating end which is required in connection with calls over repeating tie lines, (4) extinguishes the line lamp, and (5) removes ringing tone from the tip side of the line. The supervisory bridge is under control of the L relay which permits flashing during which time the connection is held under control of the attendant. When the calling party disconnects the L and B relays release which provides a disconnect signal to the attendant. When the attendant disconnects by removing the plug of the cord from the jack the SL relay releases restoring the circuit to normal.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2242-JFC-PWS-AE