

CIRCUIT DESCRIPTION

CD-66034-01
Issue 2-D
Appendix 8-D
Dwg. Issue 16-D

PBX SYSTEMS
NO. 701A OR 740E
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Option "W" designated and Option "Z" added in Fig. 3.
- D.2 Circuit Note 106 added.
- D.3 Circuit rated Mfr. Disc. replaced by SD-65781-01.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2745-RAP-PWS-CS

P.B.X. SYSTEMS
NO. 701A OR 740E
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

B. CHANGES IN APPARATUS

B.1 Superseded Superseded by
 (T) 178ED relay (T) Y263 relay
 (Fig. 1) (Fig. 2)

B.2 Added
 (A) resistance, 18U, 100 ω - Fig. 2.

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

C.1 The circuit perforation for the (T)
 relay in Fig. 1 was previously
 "block (L) NO".

C.2 Reference to test note 1 is added
 to relay (L), Fig. 1.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figure 1 is designated and rated
 "Mfr. Disc."

D.2 Figure 2 is added.

D.3 Circuit notes 104 and 105 are
 added.

D.4 The equipment designation "Int.
 Trk." was added in the title box.

D.5 Figure 3 is designated.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3310-RDW-RLL-BY

TO BE USED AS AN ORIGINAL
BY THE HAWTHORNE PRINT SHOP

PBX SYSTEMS
NO. 701A OR 740E
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Reference to terminal strip (D) or (E)
is changed to (C) in cross-connection
figure Q.

D.2 The 2 five punching terminal strips of
figure 51 are replaced by a punching
terminal strip.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3310-MHK-RLL-AL

TO BE USED AS A GUIDE
BY THE MANUFACTURING DEPARTMENT

P.B.X. SYSTEMS
NO. 701-A OR 740E
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The title is changed to include application to the new 740E PBX system.

D.2 Cross-connection Fig. 51 is added and reference to Fig. 51 is added at Fig. Q.

D.3 Fig. Q is revised.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330-MHK-FJS-ZO

P.B.X. SYSTEMS
NO. 701A
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Cross-connection Fig. R has been added.
- D.2 Cross-connection Fig. M has been rated "Mfr. Disc."

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330-EAK-WLF

CIRCUIT DESCRIPTION
SYSTEMS DEVELOPMENT DEPARTMENT
PRINTED IN U.S.A.

CD-66034-01
Issue 2-D
Appendix 3-D
(1 Page) Page I

P.B.X. SYSTEMS
NO. 701A
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Reissued to change cabling diagram Fig. P to indicate that the line relay rack terminal strip is that on which switch-board cables from line finder and connector units are terminated.

All other headings; No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330

JED)
WLF)VA

CIRCUIT DESCRIPTION
SYSTEMS DEVELOPMENT DEPARTMENT
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CD-66034-01
Issue 2-D
Appendix 2-D
February 17, 1938
(1 Page) Page 1

P.B.X. SYSTEMS
NO. 701A
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figure M in the cross connection diagram has been changed.

All other headings, No change.

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CIRCUIT DESCRIPTION
SYSTEMS DEVELOPMENT DEPARTMENT
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CD-66034-01
Issue 2-D
Appendix 1-D
July 12, 1937
(1 Page) Page 1

P.B.X. SYSTEMS
NO. 701A
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

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

- C.1 In the current flow column, under "Test Wdg.", the designation "P"
has been added for the 178ED (T) relay.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

MAR) BF
WLP)

P.B.X. SYSTEMS
No. 701A
INTERCEPTING TRUNK CIRCUIT
FROM CONNECTOR TERMINALS

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 None

B. CHANGES IN APPARATUS

B.1 None.

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

C.1 The test clip data were changed in accordance with the
latest routine.

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The cabling diagram was changed to show a #203 terminal
strip in place of the existing #171 type.

D.2 The relay spring and winding designations were changed
in accordance with the latest routine.

D.3 Equipment note 201 was added.

1. PURPOSE OF CIRCUIT

1.1 This circuit is used for intercepting calls from a
connector or a selector-connector multiple bank.

2. WORKING LIMITS

2.1 The working limits of this circuit are the working limits
of the associated circuits.

3. FUNCTIONS

- 3.1 Arranged to light a line lamp on incoming calls.
- 3.2 Provides a means for extinguishing the line lamp when the attendant answers a call.
- 3.3 Provides a means for removing the battery and ground from the cord and substituting a dry bridge toward the connector.

4. CONNECTING CIRCUITS

- 4.1 Connectors.
- 4.2 Cord circuit.
- 4.3 Auxiliary signal circuit.
- 4.4 Selector connectors.

DESCRIPTION OF OPERATION

5. When this circuit is seized by a connector or a selector-connector the (S) relay is operated by ground on the sleeve lead, the line lamp is lighted and the (T) relay operated. The operation of the (T) relay opens the ring and places a bridge across the tip and ring for tripping.

When the attendant answers the (L) relay operates. The operation of the (L) relay releases the (S) relay, grounds the "S" lead, and closes the tip and ring.

The release of the (S) relay extinguishes the line lamp and releases the (T) relay. The (T) relay being slow in releasing holds the tripping bridge across the tip and ring until ringing is tripped and also holds the ring lead toward the telephone circuit open thereby preventing clicks in the attendant's receiver during tripping.

When the attendant removes the plug of the cord from the trunk jack the circuit restores to normal.

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DEPT 332

(FAB) ZT
WHM)