P.B.X. SYSTEMS
NO. 605-A, 701-A, OR 711-A
RINGING LEADS 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 replacement note: "replaced by SD-66330-01".

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 No change.

2. WORKING LIMITS

2.1 No change.

OPERATION

3. FUNCTIONS

3.1 No change.

4. CONNECTING CIRCUITS

4.1 No change.

DETAILED DESCRIPTION

5. No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

VMH)JH
WHM)

DD

CIRCUIT DESCRIPTION
AMERICAN TELEPHONE & TELEGRAPH CO.,
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.
PRINTED IN U.S.A.

CD-66016-01
Issue 1
Appendix 3-D
May 2, 1929
(2 Pages) Page 1

P.B.X. SYSTEMS
NO. 605-A, 701-A OR 711-A
RINGING LEADS CIRCUIT

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 No change.

B. CHANGES IN APPARATUS

B.1 Removed	Replaced By	Added
None	None	Keys B2J and B9D

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 Designated (Gen) key (GEN) or (Ringing).

D.2 Key B2B rated "A & M Only".

D.3 Added notes 108 and 109.

D.4 Added keys B2J and B9D.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 No change.

2. WORKING LIMITS

2.1 No change.

OPERATION

3. FUNCTIONS

3.1 No change.

4. CONNECTING CIRCUITS

4.1 No change.

AMERICAN TELEPHONE & TELEGRAPH CO.
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-A

JBD)
WHM) KW

CIRCUIT DESCRIPTION
AMERICAN TELEPHONE & TELEGRAPH CO.,
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.
PRINTED IN U.S.A.

CD-66016-01
Issue 1, App. 2-D
November 7, 1928
(2 Pages) Page 1

P.B.X. SYSTEMS
NO. 605-A, 701-A OR 711-A
RINGING LEADS CIRCUIT

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 No change.

B. CHANGES IN APPARATUS

B.1 Removed	Replaced By	Added
None	None	8-B, 8-C and 8-D Lamps

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 Rating changed from Provisional to Provisional Standard.

D.2 Ringing leads designated "1" and "2".

D.3 None 107 added and note 105 changed.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 No change.

2. WORKING LIMITS

2.1 No change.

OPERATION

3. FUNCTIONS

3.1 No change.

4. CONNECTING CIRCUITS

4.1 No change.

AMERICAN TELEPHONE & TELEGRAPH CO.
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-C

MAR)HT
WHM)QD

CIRCUIT DESCRIPTION
AMERICAN TELEPHONE & TELEGRAPH CO.
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.
PRINTED IN U.S.A.

CD-66016-01
Issue 1
Appendix 1-A
June 8, 1928
(2 Pages) Page 1

PBX SYSTEMS
NO. 605-A, 701-A OR 711-A
RINGING LEADS CIRCUIT

CHANGES

A. CHANGED AND ADDED FUNCTIONS

A.1 None.

B. CHANGES IN APPARATUS

B.1	Removed	Replaced By	Added
	498-M Key	B2B Key	None.

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

C.1 None

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figures 2-K and 3-K were added.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 No change.

2. WORKING LIMITS

2.1 No change.

OPERATION

3. FUNCTIONS

3.1 No change.

4. CONNECTING CIRCUITS

4.1 No change.

AMERICAN TELEPHONE & TELEGRAPH CO.
DEPT. OF DEVELOPMENT & RESEARCH.
BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-A

GVK)AAK
WHM)MY

CIRCUIT DESCRIPTION
AMERICAN TELEPHONE AND TELEGRAPH CO.,
DEPT. OF DEVELOPMENT AND RESEARCH.
BELL TELEPHONE LABORATORIES, INC.
PRINTED IN U.S.A.

CD-66016-01
Issue 1
July 29, 1927
(3 Pages) Page 1

P.B.X. SYSTEMS
NO. 605-A, 701-A OR 711-A
RINGING LEADS CIRCUIT

DEVELOPMENT

1. PURPOSE OF CIRCUIT

1.1 Fig. 1 of this circuit shows the method of supplying ringing current to the manual switchboard cord circuits, to the buzzer circuit and to long P.B.X. station line and long P.B.X. trunk and the line circuits.

1.2 Fig. 2 and 3 of this circuit show the method of supplying ringing current to the manual switchboard cord circuits to the fuse alarm circuit, to the night alarm circuit and to long P.B.X. station line and long P.B.X. trunk and the line circuits.

1.3 Fig. 4 of this circuit shows the method of supplying ringing current to the connector and selector-connector circuits.

2. WORKING LIMITS

2.1 None.

OPERATION

3. FUNCTIONS

3.1 Figure 1

3.11 To supply ringing current to the manual switchboard cord circuits, to the buzzer circuit and to the long P.B.X. station line and long P.B.X. trunk and the line circuits.

3.12 To furnish a means of employing a hand generator for supplying ringing current to the cord circuits in case of power failure.

3.2 Figure 2 and Figure 3

3.21 To supply ringing current to the manual switchboard cord circuits, to the night and fuse alarm circuits and to long P.B.X. station line and long P.B.X. trunk and the line circuits.

3.22 To furnish a means of employing a hand generator for supplying ringing current to the cord circuits in case of power failure.

3.3 Figure 4

3.31 To supply ringing current to the connector and selector-connector circuits.

4. CONNECTING CIRCUITS

4.1 Figure 1

4.11 Central office ringing circuit.

4.12 Manual switchboard cord circuit.

4.13 Buzzer circuit.

4.14 Long P.B.X. line and long P.B.X. trunk circuits.

4.15 Long tie line circuits.

4.2 Figure 2 and Figure 3

4.21 Central office ringing circuit.

4.22 Manual switchboard cord circuit.

4.23 Night alarm circuit.

4.24 Fuse alarm circuit.

4.25 Long P.B.X. station line and long P.B.X. trunk circuits.

4.26 Long tie line circuits.

4.3 Figure 4

4.31 Power ringing circuit.

4.32 Connector circuit.

4.33 Selector-connector circuit.

DETAILED DESCRIPTION

5. Figure 1

5.1 CURRENT SUPPLIED FROM CENTRAL OFFICE RINGING MACHINES - When the (GEN) key is in its normal position ringing current from the primary source of ringing current is supplied to the cord circuits, buzzer circuit and long P.B.X. lines or long P.B.X. trunk and the line circuits. A 6-A resistance lamp is provided for the switchboard and for the buzzer circuit. This resistance lamp is used to prevent a short circuit of the common ringing lead if the attendant should ring out over a short circuited or grounded line.

5.2 RINGING CURRENT SUPPLIED FROM HAND GENERATOR - When the primary source of ringing current fails the (GEN) key is operated and the 22-A or 48-H hand generator is used to provide ringing current to the cord circuits.

6. Figure 2 and Figure 3

6.1 CURRENT SUPPLIED FROM CENTRAL OFFICE RINGING MACHINES - When the GEN key is in its normal position ringing current from the primary source of ringing current is supplied to the cord circuits, alarm circuits and long P.B.X. station lines and long P.B.X. trunk and the line circuits. A resistance lamp is provided for each switchboard section and another is provided for the fuse and night alarm circuits. These resistance lamps are used to prevent short circuits on the common ringing lead.

6.2 RINGING CURRENT SUPPLIED FROM HAND GENERATOR - When the primary source of the ringing current fails the GEN key is operated and the hand generator is used to provide ringing to the cord circuits.

7. Figure 4

7.1 CURRENT SUPPLIED TO CONNECTOR AND SELECTOR-CONNECTOR CIRCUITS - The ringing current for the connector and for the selector-connector circuits is supplied from the power ringing circuit. A resistance lamp is provided per shelf to prevent a short circuit of the common ringing lead should ringing current be connected to a short-circuited or grounded line.

AMERICAN TELEPHONE AND TELEGRAPH CO.,
DEPT. OF DEVELOPMENT AND RESEARCH.
BELL TELEPHONE LABORATORIES, INC.

DEPT. 332-A

FAB)WC
WHM)