

6

PEX SYSTEMS
NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT
INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
WITH OR WITHOUT RESTRICTED SERVICE

CHANGES

D. Description of Changes

D.1 Option E is designated and option B is added to provide optional line origination restriction under control of the station restriction circuit.

D.2 CAD 40 is added to show the outgoing restriction terminal strip and note 207 is added.

F. Changes in CD Sections

F.1 The following information is added to SECTION II, DETAILED DESCRIPTION:

6. STATION RESTRICTION

6.01 When the station restriction circuit is operated, ground is removed from the line relay, and calls can not be originated.

BELL TELEPHONE LABORATORIES, INCORPORATED

(WECO 2120HW-BWP-WHK)
DEPT 5337-LAH

5

PEX SYSTEMS
NO. 701B, 701PK, 711B OR 711PK
STATION LINE CIRCUIT
INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
WITH OR WITHOUT RESTRICTED SERVICE

CHANGES

D. Description of Changes

- D.1 Station dial conference connecting information is rated MFR. DISC. and station restriction circuit connecting information is added.
- D.2 CAD's 1, 2, 7, 8, 9, 10, 22, 24, 25 and 30 are modified and CAD 39 is added.
- D.3 No. 608D switchboard connecting information is added.

F. Changes in CD Sections

- F.1 The following circuit is rated MFR. DISC. in part 4. CONNECTING CIRCUITS:

- (s) Station Controlled Dial Conference Connecting Circuit - SD-66857-01 MFR. DISC.

- F.2 The following circuits are added to part 4. CONNECTING CIRCUITS:

- (v) Station Restriction Circuit - SD-5E012-01.

- (w) No. 608D Auxiliary Signal, Fuse Alarm, Battery Cutoff and Miscellaneous Circuit - SD-67039-01.

BELL TELEPHONE LABORATORIES, INCORPORATED

(WECO 7120HW-RWH-JGW)
DEPT 5337-LAH

CIRCUIT DESCRIPTION

[Handwritten signature]

CD-66715-01
ISSUE 6D
APPENDIX 2D
DWG ISSUE 17D

PBX SYSTEMS
NO. 701B, 701PK, 711B, OR 711PK
STATION LINE CIRCUIT
INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
WITH OR WITHOUT RESTRICTED SERVICE

CHANGES

D. Description of Changes

- D.1 Notes 102 and 104 are revised.
- D.2 Lead P-- is added to Figure 1 with option F for automatic number identification.
- D.3 CAD Figures 7,8,24 and 25 are modified.

F. Changes in CD Sections

- F.1 The following circuit is added to Part 4, CONNECTING CIRCUITS:
 - (u) Automatic Number Identification Circuit - SD-1E007-01.

BELL TELEPHONE LABORATORIES, INCORPORATED

(WEC 7760HW-AELK-JGW)
DEPT 5337-RAV

6X

PBX SYSTEMS
NO. 701B, 701PK, 711B, OR 711PK
STATION LINE CIRCUIT
INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
WITH OR WITHOUT RESTRICTED SERVICE

CHANGES

B. Changes in Apparatus

B.1 REMOVED

S Diode 420G, Fig. 1

REPLACED BY

S Diode 446F, Fig. 1

D. Description of Changes

D.1 Fig. 5 is modified to add M lead connecting to a Message Register Circuit on Q option.

D.2 Fig. 1 is modified to replace 420G diode S with 446F diode.

D.3 CAD 24 is modified and CAD 38 is added to provide additional connections to Message Register Circuit.

F. Changes in CD Sections

F.1 The following circuit is added to Part 4, CONNECTING CIRCUITS:

(t) Message Register Circuit - SD-65852-01.

BELL TELEPHONE LABORATORIES, INCORPORATED

(WECO 7760HW-JQW-RHB)
DEPT 5337-RAV

4-X

PBX SYSTEMS
 NO. 701B, 701PK, 711B, OR 711PK
 STATION LINE CIRCUIT
 INDIVIDUAL OR 2 PARTY SELECTIVE RINGING
 WITH OR WITHOUT RESTRICTED SERVICE

SECTION I - GENERAL DESCRIPTION

1. PURPOSE OF CIRCUIT

1.01 This circuit is used to establish a connection between a PBX station and a line finder, a connector, or an attendant or between a tie trunk and a line finder.

SECTION II - DETAILED DESCRIPTION

1. CALLS ORIGINATED AT STATION

1.01 When the handset is removed from the switchhook at the calling station or this circuit is seized by a trunk circuit, relay L operates over the loop. Relay L operated (1) connects ground to lead G toward the line finder for starting, (2) if X option is furnished, connects ground to lead T1 toward the line finder for restriction, (3) connects lead S1 through to leads S2 and (4) connects the primary and secondary windings of relay CO to lead S1. When the line finder seizes this circuit relay CO operates and lead S1 is grounded as a busy condition on leads S2. Relay CO operated (1) locks operated over the primary winding to ground on lead S1, (2) grounds lead S3 as a busy condition and (3) releases relay L. Relay L released removes ground from leads T1 and G.

2. OUTGOING CALLS FROM ATTENDANT

2.01 When the attendant originates a call by inserting the plug of the cord into the jack, ground on lead S2 causes relay CO to operate and the sleeve leads S2 are made busy. Relay CO operated (1) disconnects relay L from the T and R leads, (2) connects the T and R leads of the jack to the line, and (3) grounds lead S3 for a busy condition.

3. OUTGOING CALLS FROM CONNECTOR MULTIPLE

3.01 When this circuit is seized by a connector, ground on lead S2 causes relay CO to operate as described in 2.01.

4. STATION DIRECT STATION SELECTION

4.01 When the station associated with this line circuit makes a direct station selection call, ground on the S2 lead from the direct station selection crossbar switch holds the CO relay operated as a busy indication to incoming calls. The S diode

prevents ground from the S2 lead from holding a line finder falsely operated.

5. ATTENDANT DIRECT STATION SELECTION

5.01 Ground from operated CO relay over S3 lead lights lamp in selector console to indicate busy condition.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

1.01 Resistance Limits

Maximum external circuit resistance - 1000 ohms.

Minimum insulation resistance Manual, Panel, and Crossbar - 20,000 ohms.

Step-by-Step - 30,000 ohms.

2. FUNCTIONAL DESIGNATIONS

2.01 Relays

<u>Designation</u>	<u>Meaning</u>
CO	Cut-Off
L	Line

3. FUNCTIONS

3.01 To start a line finder to hunt for and seize this line when the station or tie trunk is off-hook.

3.02 To connect the station or tie trunk through to the line finder when the line finder seizes this line.

3.03 To connect the station through to the connector banks when seized by a connector.

3.04 To connect the attendant to the station on a call from the manual board.

3.05 To make the connector multiple and attendant jack busy when seized by a finder, connector, or attendant, or when associated station is making a direct station selection call.

3.06 To provide means for furnishing 2-party service.

3.07 Momentarily grounds the T1 lead to the line finder if the station is restricted from dialing central office calls.

3.08 To provide means for lighting a message waiting light at the station set.

4. CONNECTING CIRCUITS

4.01 When this circuit is listed on a key-sheet, the connecting information thereon is to be followed.

- (a) Cord Circuits - SD-66198-01 (typical).
- (b) Line Finder Circuit - SD-65901-01.
- (c) Connector Circuit - SD-66144-01 (typical).
- (d) Tie Trunk Circuit - SD-65535-01 (typical).
- (e) Auxiliary Trunk Circuit - SD-65725-01.
- (f) Auxiliary Line Circuit - SD-66604-01.
- (g) Intercept Trunk Circuit - SD-66592-01 (typical)
- (h) Command Conference Circuit - SD-66693-01.
- (i) Crash Alarm Circuit - SD-66694-01.
- (j) Message Waiting Service Key Interrupter and Power Circuit - SD-65784-01.
- (k) Auxiliary or Monitoring and Test Line Circuit for Group Alerting System - SD-95884-01.
- (l) Attendant Controlled Dial Conference Connecting Circuit - SD-65897-01 (typical).

- (m) Night Transfer Circuit - SD-65837-01.
- (n) Station Direct Station Selection Circuit - SD-66856-01.
- (o) Position Circuit - SD-65814-01.
- (p) Attendants Trunk Circuit - SD-65737-01.
- (q) Selector Console Circuit - SD-66882-01.
- (r) Station Access Circuit - SD-66885-01.
- (s) Station Controlled Dial Conference Connecting Circuit - SD-66857-01.

SECTION IV - REASONS FOR REISSUE

D. Description of Changes

D.1 Connecting information is added for the following circuits:

- (a) Station Controlled Dial Conference Connecting Circuit - SD-66857-01.
- (b) Attendants Trunk Circuit - SD-65737-01.
- (c) Selector Console Circuit - SD-66882-01.

D.2 Connecting information is removed for Loudspeaker Paging Trunk Circuit - SD-66858-01.

D.3 CAD 30 on sheet 012 is redesignated CAD 36.

D.4 CAD 37 is added for distributing frame termination of S3 lead.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT 5336-FFS-FNR