

CIRCUIT DESCRIPTION

CD-95822-01
Issue 1
Appendix 1-D
Dwg. Issue 2-D

COMMON SYSTEMS
MISCELLANEOUS CIRCUIT
OUTPULSER IDENTIFIER TRUNK TEST FRAME
AUTOMATIC NUMBER IDENTIFICATION
CROSSBAR NO. 1, PANEL OR STEP-BY-STEP OFFICE

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 This circuit is reissued without record to remove Fig. CAD1, renumber Fig. CAD2 as CAD1 and to change the connecting information for the B, tel. and Swmn's jacks.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2335-JLB-FBB-DO

COMMON SYSTEMS
MISCELLANEOUS CIRCUIT
OUTPULSER IDENTIFIER TRUNK TEST FRAME
AUTOMATIC NUMBER IDENTIFICATION
CROSSBAR NO. 1, PANEL OR STEP BY STEP OFFICE

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SECTION I - GENERAL DESCRIPTION

This circuit is designed for use in Panel, Crossbar No. 1, and Step-by-Step offices arranged for Automatic Number Identification. It provides the miscellaneous apparatus mounted on the Outpulser Identifier Trunk Test Frame and includes a fuse alarm, a frame test battery, a frame line between frames, and a spare jack.

SECTION II - DETAILED DESCRIPTION

1. FRAME TEST BATTERY - FS1

Ground, high resistance ground, and -48 volt battery test terminals, -48 volt battery jack (A) or (48V), and +130 volt battery jack (C) or (+130) are provided for test purposes.

2. SPARE JACK - FS2

Spare jack (B) is furnished for possible future requirements.

3. FRAME LINE BETWEEN FRAMES - FS3 & FS4

With Option 2 (Panel & Crossbar No. 1 Offices), communication may be established between ANI frames by plugging operator telephone sets into the (TEL) jacks on the frames. Talking battery is supplied through the connecting circuit. With Option 3 (Step-by-Step Offices), the (SWMN) jacks provide the same feature.

4. FUSE ALARM - FS5 & FS6.

4.1 With Option 4 (Panel & Crossbar No. 1 Offices), the operation of the 20-amp feeder fuse followed by the operation of the parallel 1-1/3-amp pilot fuse or the operation of any 1-1/3-amp circuit fuse supplies battery through the resistors and (FA) lamp in series with a relay to ground in the Alarm Circuit. This lights the (FA) lamp and starts an audible alarm. The lamp is extinguished and the alarm silenced when the operated fuse is removed.

4.11 The 20-amp feeder fuse must be replaced before the pilot fuse is replaced.

4.12 The 1075-ohm resistor is provided to prevent an open alarm lead if the (FA) lamp is removed. The 220-ohm resistors are provided to protect the alarm lead in case of a trouble ground.

4.2 With Option 5 and 6 (Step-by-Step Offices), the operation of the 20-amp feeder fuse followed by the operation of the parallel 1-1/3-amp pilot fuse or the operation of any 1-1/3-amp circuit fuse supplies battery through a 221-ohm resistor and (FA) relay to ground, operating relay (FA). (FA) operated lights the (FA) lamp and grounds leads "1" and "2", starting an audible alarm. The lamp is extinguished and the alarm silenced when the operated fuse is removed.

4.21 The 20-amp feeder fuse must be replaced before the pilot fuse is replaced.

4.22 The 221-ohm resistors are provided to protect the alarm lead in case of a trouble ground.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

None.

2. FUNCTIONAL DESIGNATIONS

2.1 Relays

FA - Fuse Alarm

2.2 Jacks

A or 48V - 48 Volt Battery
 B - Spare
 C or +130 - 130 Volt Battery
 SWMN - Switchmans Talking Line
 TEL - Telephone

2.3 Lamps

FA - Fuse Alarm

3. FUNCTIONS

3.1 To provide a visual and audible alarm when a fuse operates.

3.2 To provide battery and ground terminals for testing purposes.

3.3 To provide a talking line for talking between ANI frames.

3.4 To provide a spare jack for future requirements.

4. CONNECTING CIRCUITS

When this circuit is listed on a key sheet the information thereon is to be followed:

4.01 Outpulser Identifier Test Circuit - SD-95815-01.

4.02 Automatic Trunk Test Circuit (Panel & Crossbar No. 1) - SD-95889-01.

4.03 Automatic Trunk Test Circuit (Step by Step) - SD-32215-01.

4.04 Floor Alarm Frame Fuse and Time Alarm Circuit (Crossbar No. 1) - SD-25046-01.

4.05 Floor Alarm Board Fuse and Time Alarm Circuit (Panel-BCO) - SD-21201-01.

4.06 Miscellaneous Alarm Circuit (Panel-GCO) - SD-20241-01*.

4.07 Audible and Visual Alarm Circuit (Step by Step No. 1) - SD-96188-01*.

4.08 Pilot Lamp and Power Alarm Lamp Circuit (Step by Step 350A) - SD-31573-01*.

4.09 Miscellaneous Alarm Circuit. Permanent Signal Timing Circuit (Step by Step 355A) - SD-32192-01*.

4.10 Local Frame Line Circuit (Crossbar No.1 and Panel-BCO) - SD-96379-01.

4.11 Local Frame Line Circuit (Panel-GCO) - SD-20360-01.

4.12 Switchmans Talking Line Circuit (Step by Step) - SD-32021-01.

*Typical Circuit

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DEPT. 2335-WLW-FBB-DC