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COMMON SYSTEMS
FUSE ALARM CIRCUIT
FOR FUSE BAYS
CROSSBAR NO. 1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3C OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

I

CHANGES

D. Description of Changes

D.1 This circuit is changed to add a note to prevent multing of leads which contain both +48 volt and -48 volt.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT 5144-UKS-GW

WECo DEPT 335-DWW-PKP

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FUSE ALARM CIRCUIT
FOR FUSE BAYS
CROSSBAR NO. 1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3C OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

CHANGES

D. DESCRIPTION OF CHANGES

D.1 The designation of Fig. 4 was changed from low tone fuse alarm to tone fuse alarm and TT1 designation was added to the fuse bar.

BELL TELEPHONE LABORATORIES, INCORPORATED

DEPT. 2311

ART-MFF-CC

COMMON SYSTEMS
FUSE ALARM CIRCUIT
FOR FUSE BAYS
CROSSBAR NO. 1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3 OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The title and connecting information of Fig. 10 is modified to indicate it may also be used for 130V negative battery. The title formerly read: "130V positive and 165V positive charge battery fuse alarm, See note 201". The connecting information formerly read "130V or 165V."

D.2 Figure 11 is rated "A&M Only" to agree with rating of formed release feature.

D.3 Circuit note 102 and addition to note 101 are added for record purposes.

All other headings, no change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3040

BSP-CGM-TR

COMMON SYSTEMS
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FOR FUSE BAYS
CROSSBAR NO. 1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3C OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

CHANGES

B. CHANGES IN APPARATUS

B.1 Added

Fig. 13

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figure 13 is added and rated A&M only. It is used with fig. 12, of SD-25046-01, the Floor Alarm Frame Fuse and Time Alarm Circuit, which is also rated A&M only.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330

MHK-AJB-FV

COMMON SYSTEMS
FUSE ALARM CIRCUIT
FOR FUSE BAYS
CROSSBAR NO.1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3C OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 Figures 8 and 9 are rated "Mfr. Disc." on this issue.

All other headings, No change.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330

MHK-AJB-CO

COMMON SYSTEMS
FUSE ALARM CIRCUIT
FOR FUSE BAYS
CROSSBAR NO. 1 OR TANDEM OFFICE
OR SWITCHBOARD NO. 3C OR 3CL
USED FOR DSA TRAFFIC ONLY
FOR CROSSBAR OFFICE NO. 1

1. PURPOSE OF CIRCUIT

1.1 To provide fuse alarms for fuse bays.

2. WORKING LIMITS

2.1 None.

3. FUNCTIONS

3.1 To operate an alarm when a fuse bay fuse operates.

4. CONNECTING CIRCUITS

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

4.1 Floor Alarm Frame Fuse and Time Alarm Circuit - SD-25046-01.

4.2 Power Circuits - SD-80730-01 (typical)

4.3 Interrupter Frame Circuit - SD-25062-01.

4.4 Sender Circuit - SD-25012-01.

4.5 Signal Circuit - No-such-number Tone Supply - SD-96357-01.

DESCRIPTION OF OPERATION

5. COMMON FUSE ALARMS - FIGS. 1, 4, 7 AND 8

A maximum of 10 or 15 alarm bar networks for d-c alarms or tone alarms in the same aisle with the same lead designation are connected together and connect to a low resistance relay in the alarm circuit. If a fuse operates 48 volts with or without superposed tone will light the associated lamp FA in series with the low resistance relay in the alarm circuit which operates the audible and visual signals. Resistance FA provides (a) a circuit to operate the alarm circuit even if the fuse panel lamp FA burns out, (b) protection in case of a short circuit across the terminals of the lamp socket, (c) a potentiometer reduction of voltage for proper lighting of the lamp.

6. INDIVIDUAL FUSE ALARMS - FIGS. 2, 3, 5, 9, 10 AND 11

If a fuse operates the bus bar potential is applied thru the alarm bar and protective resistance FA (except for Fig. 11) to an individual relay in the alarm circuit which operates the audible and visual signals and lights lamp FA associated with the operated fuse.

7. TIMED RELEASE SENDER DISCONNECT TONE FUSE ALARM - FIG. 6 (A&M ONLY)

Operation of a fuse will operate a relay in the connecting circuit during the closed period of the interrupter back contact. This relay is arranged to lock thru the operated fuse so that the alarm remains locked in steadily lighting lamp FA and operating the audible and visual signals.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 3330-MHK-FJS-MG