

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

CD-21235-01
Issue 4-D
December 29, 1936
(3 Pages) Page 1

PANEL SYSTEM
MISCELLANEOUS CIRCUIT
FOR SUBSCRIBER SENDER TEST FRAME

CHANGES

B. CHANGES IN APPARATUS

B.1	Superseded	Superseded By
	2 - 221 Type Jacks, Fig. 2	2 - 223 Type Jacks, Fig. 2
	1 - Yellow Mazda Lamp, Fig. 5	1 - Amber Mazda Lamp, Fig. 5

D. DESCRIPTION OF CIRCUIT CHANGES

- D.1 Note 108 is added to rate the yellow (TP) lamp "A & M Only", superseded by the amber lamp.
- D.2 Note 105 is added to rate the 221 type jack "Mfr. Disc.", superseded by the 223 type jack.
- D.3 The motor transfer wiring, Fig. 5 has been removed and Fig. 8 has been renumbered Fig. 5.

All other headings under Changes - No Change.

DEVELOPMENT

1. PURPOSE OF CIRCUIT

- 1.1 To provide the circuit for miscellaneous apparatus required for the subscriber sender test frame.

2. WORKING LIMITS

- 2.1 None.

OPERATION

3. FUNCTIONS

- 3.1 To provide an alarm when a frame fuse operates.

- 3.2 To provide a frame line for talking between frames and to the "A" switchboard or sender make busy frame.
- 3.3 To provide miscellaneous jacks as specified on the drawing.

4. CONNECTING CIRCUITS

- 4.1 Floor alarm board fuse and time alarm circuit.
- 4.2 Miscellaneous alarm circuit.
- 4.3 Local frame line circuit.

DETAILED DESCRIPTION

5. FUSE ALARM (FIG. 1)

When the 15 ampere fuse opens, the associated 1-1/3 ampere fuse operates. Operation of any 1-1/3 ampere fuse on the fuse panel lights lamp (FA) and causes continuous operation of the minor alarms. When the operated 1-1/3 ampere fuse is removed, the alarms are retired.

6. FRAME LINE BETWEEN FRAMES (FIG. 2)

Communication may be established with the "A" switchboard by inserting the plug of an "A" board cord in the "A" board jack and plugging an operator telephone set into the (TEL) jacks. Communication may be established with the sender make busy frame by operating the (TALK) key at the sender make busy frame and plugging an operator telephone set into the (TEL) jacks. Connection between two or more frames may be made by plugging operator telephone sets into the (TEL) jacks at the frames. Talking battery is supplied thru the connecting circuit. No signaling is provided.

7. SPARE JACK (FIG. 3)

Jack (B) is provided to meet possible future requirement for miscellaneous jacks.

8. FRAME TEST BATTERY (FIG. 4)

One connecting block is furnished on each side of the frame to supply 24 volt battery, 48 volt battery, ground and ground thru 12,000 ohms resistance for testing purposes. Jack (A) furnishes battery and ground for the portable test set.

9. TIME ALARM AISLE PILOT LAMP (FIG. 5)

Operation of the test frame time alarm operates the (TF) relay, lighting lamp (TP).

10. FUSE ALARM AISLE PILOT LAMP (FIG. 6)

Operation of the fuse alarm operates the (A1) relay, lighting lamp (FP).

11. TEST BATTERY SUPPLY (FIG. 7)

The 24 volt battery and resistances required for Fig. 4 are supplied by this figure.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

WPA)
WLF)JS

10. FUSE ALARM AISLE PILOT LAMP (FIG. 6)

Operation of the fuse alarm operates the (A) relay, lighting lamp (FP).

11. TEST BATTERY SUPPLY (FIG. 7)

The 24 volt battery and resistances required for FIG. 4 are supplied by this figure.

BELL TELEPHONE LABORATORIES, INC.

DEPT. 332

WPA
WLB 12