

COMMON SYSTEMS
ANNOUNCEMENT TRUNK CIRCUIT
OUTGOING TO DISTRIBUTING CENTER
ANNOUNCEMENT SYSTEM NO. 9ASECTION I - GENERAL DESCRIPTION

1. PURPOSE OF CIRCUIT

1.1 This circuit provide means for transmitting the announcements and control signals provided by an announcement machine to a distributing center located in a distant office.

SECTION II - DETAILED DESCRIPTION

1. SEIZURE

Whenever an announcement trunk is seized at the distributing center, a bridge will be connected across the tip and ring. This causes relay L to operate.

Relay L operated:

- (a) Operates relay ST.

Relay ST operated:

- (a) Operates relay SD if the pulse is absent from the CT lead at this time. This arrangement insures that a complete CT pulse will be transmitted to the subcenter.

Relay SD operated:

- (a) Closes in part a path to operate relay CT. Relay CT follows the pulses on the CT lead. Ground is connected to the CT lead by the distributing circuit for a short interval preceding each announcement.

Relay CT operated:

- (a) Reverses battery and ground to the subcenter. This, in effect, causes the CT pulse to be repeated at the subcenter.

2. DISCONNECT

When all announcement trunks at the subcenter are idle the bridge is disconnected from the T and R leads releasing relays L, ST, SO and CT. Thermistor A is provided in the path of the ST relay to prevent the reoperation of relay ST at this time due to operation of relay L on line surges.

3. TEST JACKS

The A jack is for use in transmission testing.

SECTION III - REFERENCE DATA

1. WORKING LIMITS

Maximum external circuit loop 5,000
Minimum insulation resistance 30,000

2. FUNCTIONS

- 2.1 To ground the start lead to the distributing circuit as an indication that a call is waiting an announcement trunk is seized at the subcenter.
- 2.2 To provide a transmission path for announcements furnished by the announcement machine to the subcenter.
- 2.3 To transmit the control signals furnished by the announcement machine to the subcenter.

3. CONNECTING CIRCUITS

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

- 3.1 Distributing Circuits SD-95857-01, SD-95854-01, SD-95855-01.

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