

BELL TELEPHONE LABORATORIES, INC.

SD-55200-01

TOLL SYSTEMS  
TOLL SWITCHBOARD NO. 3CF  
KEY SHEET

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ISS.	ISSUE	ISSUED	APPROVED	
1	1	2-29-40	W.L.F.	L.L.E.
2	2	1-21-41	W.L.F.	B.C.B.
3	3	6-10-41	W.L.F.	B.C.B.

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AT&TCO  
STANDARD

FOR EXPLANATION OF CONVENTIONS  
SEE MASTER KEY SHEET SD-90250-01

SD-55200-01

*Rec-10-12-56- JJA*

General Description of Toll Switchboard  
No. 3CF

Toll switchboard No. 3CF is designed primarily for an operator office to handle DSA service in community dial areas and to establish calls between subscribers in one toll center and subscribers in another toll center. Power supply and distributing frame facilities for this switchboard are obtained from the community dial office in the same building.

The switchboard position consists of a three panel upper unit assembled with a lower unit equipped with regular toll switchboard No. 3C positional circuits. It is wired for a maximum of 10 pairs of toll cords and equipped for repeated dialing on both ends of cords. The growth of the switchboard lineup is always from left to right.

The principal features of this switchboard are similar to toll switchboard No. 3C with the following added features:

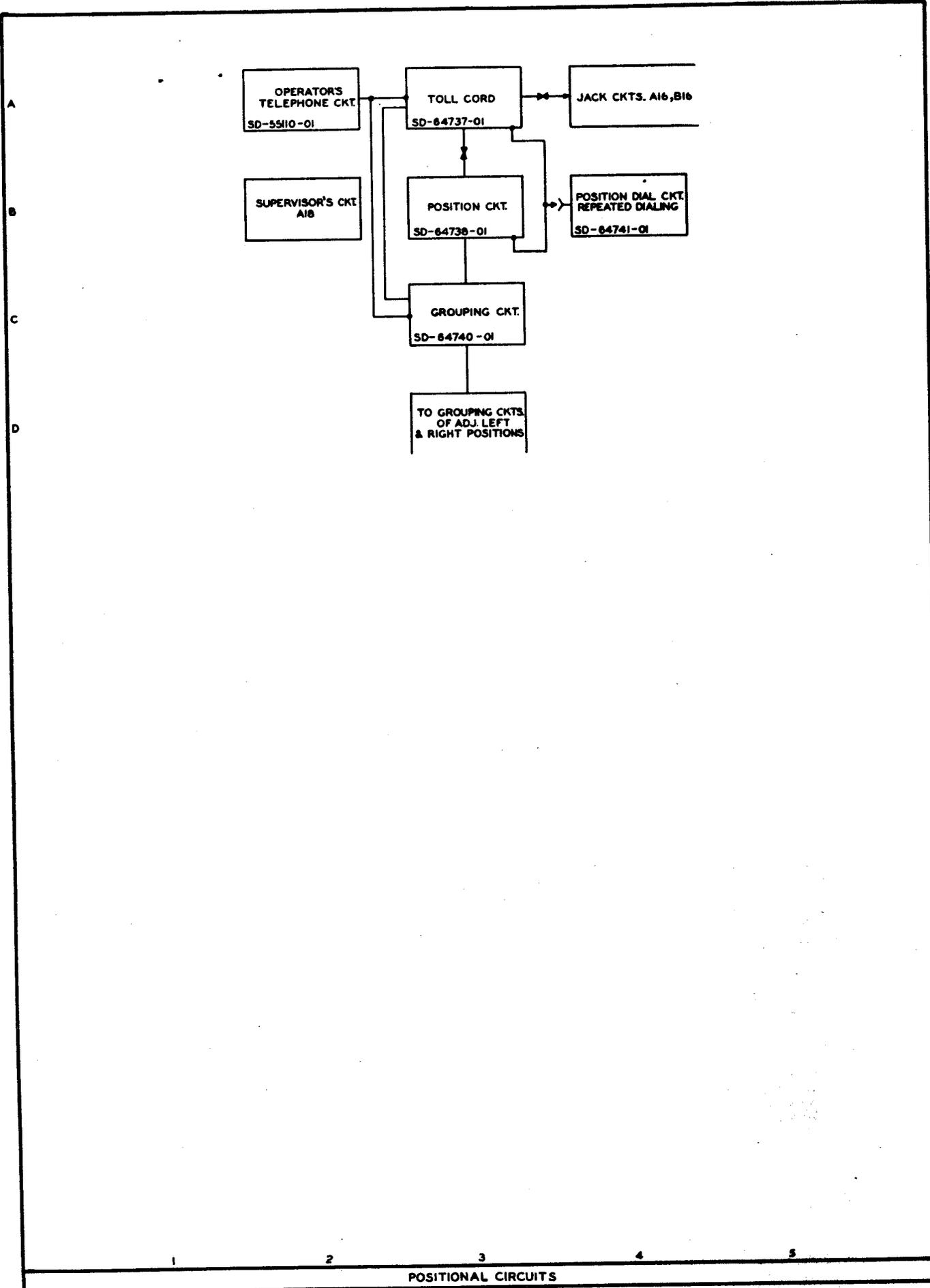
1. Fixed equipment layout.
2. 92 type jacks only mounted 10 per strip.
3. Trunking arrangements as follows:
  - 3.1 Ringdown intertoll trunks to distant toll offices with 20 and 135 cycle ringing arrangements and no provision for switching transmission pads. Where switching transmission pads are required, the regular 3C intertoll trunk shall be furnished.

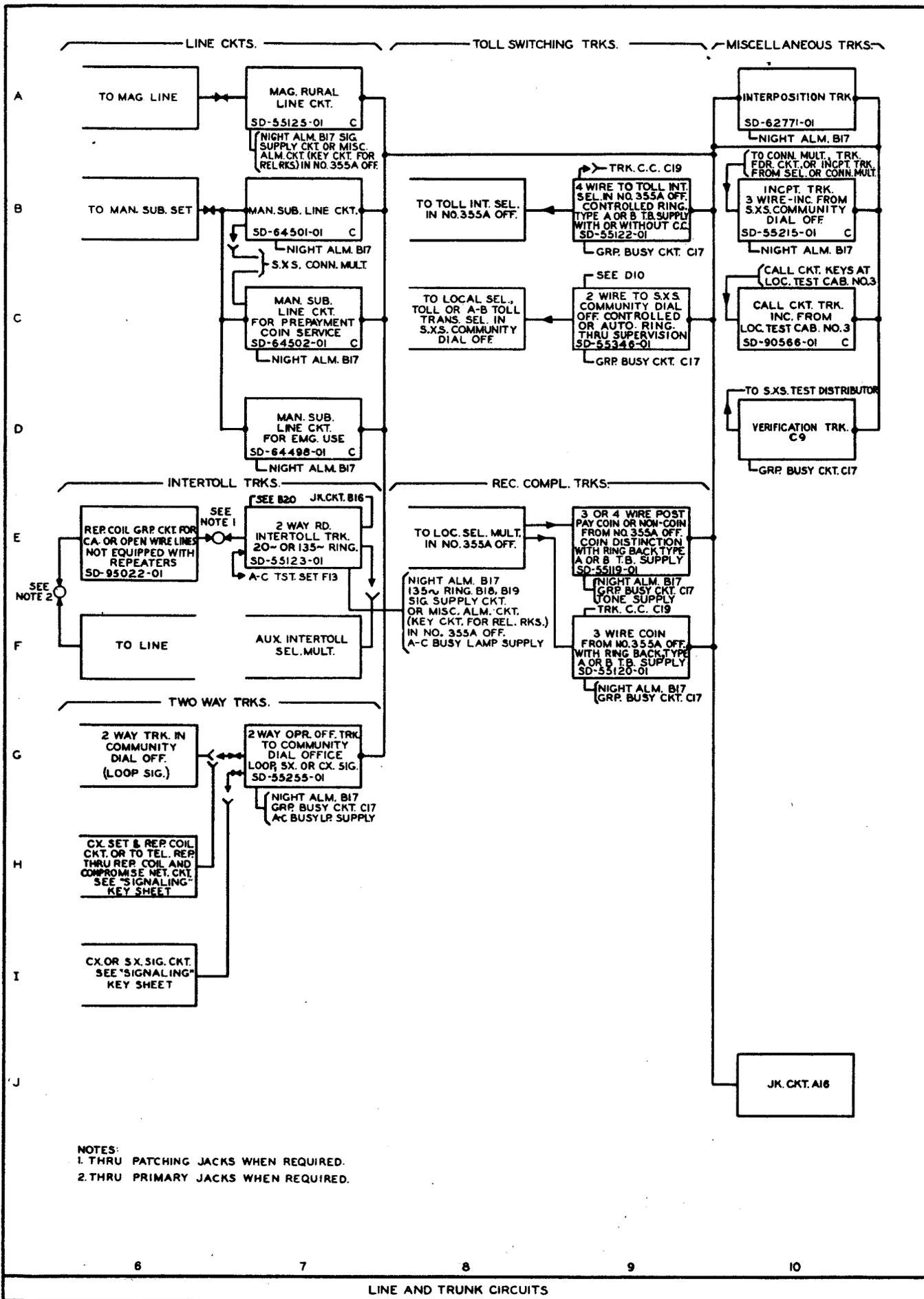
- 3.2 Recording completing trunks incoming from community dial office arranged for type A or B transmission battery supply.
- 3.3 Toll switching trunks outgoing to community dial office arranged for type A or B transmission battery supply.
- 3.4 Two-way master office trunks to distant community dial office arranged for loop, simplex or composite signaling.

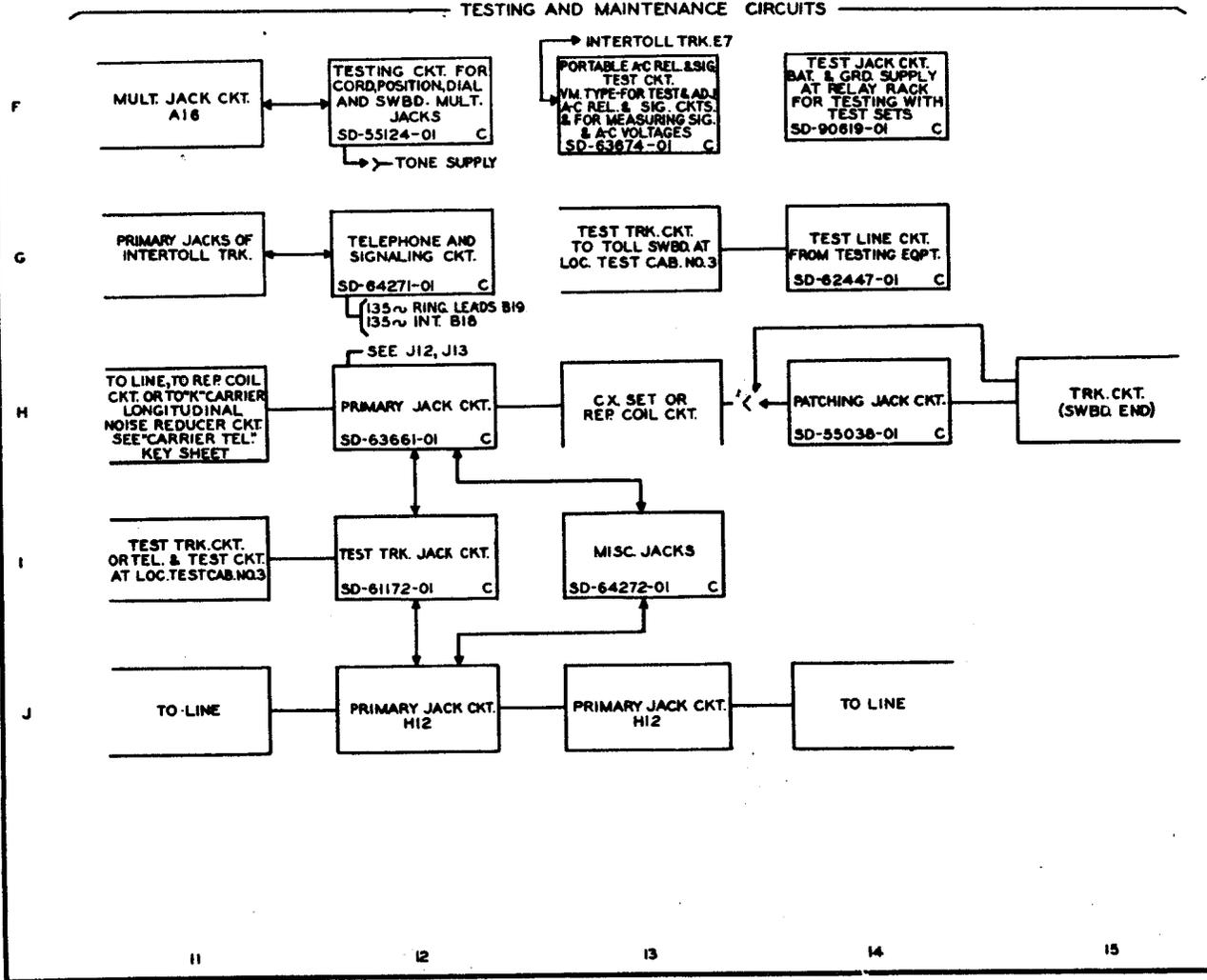
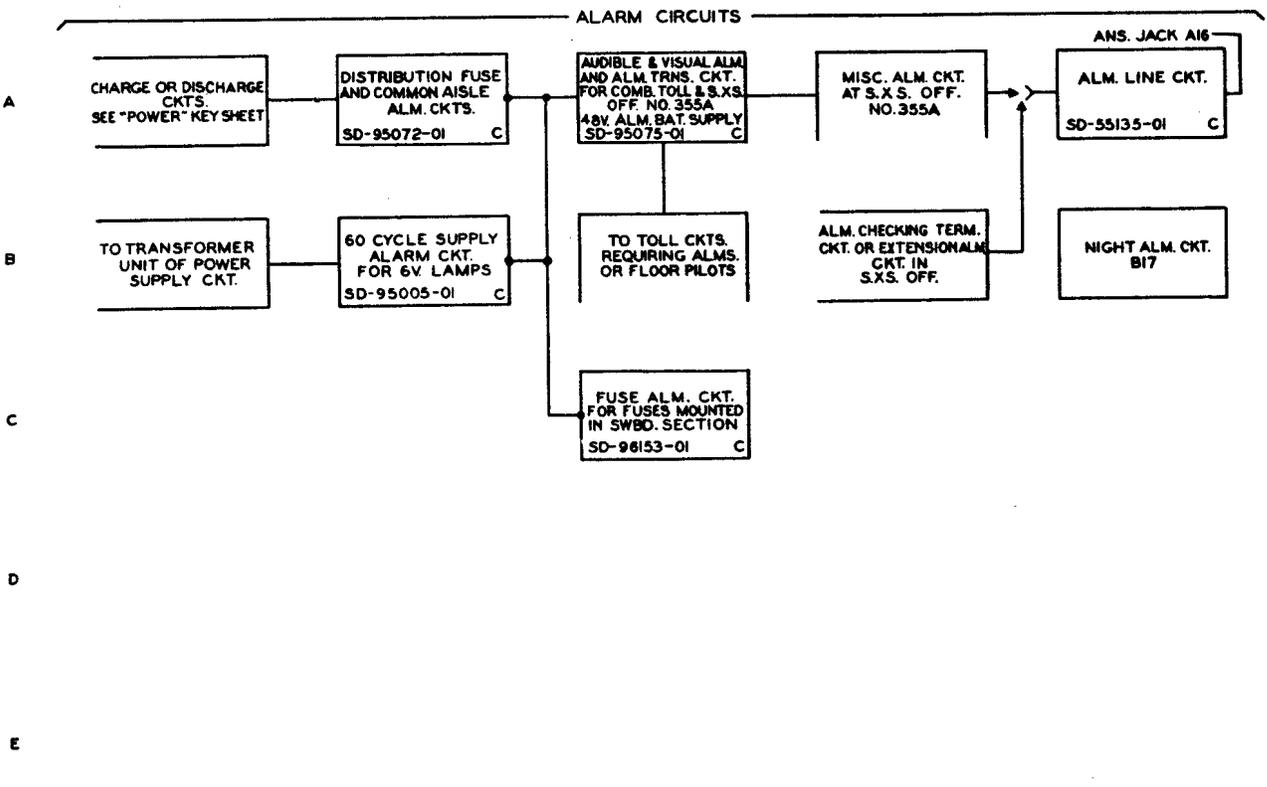
The distribution fuse alarm circuit connects to a toll audible and visual alarm circuit arranged to group to the alarm system in the dial office, from which alarm indications extend to alarm line circuits appearing in the toll switchboard.

The testing and maintenance facilities for this switchboard are simplified and are as follows:

1. Position test circuit for cords, position and dial circuits and intertoll trunk multiple jacks.
2. Portable set for testing and adjusting AC relays.
3. Primary test, patching and miscellaneous jacks mounted on relay rack.
4. Telephone circuit for assisting in testing intertoll trunks.
5. Test line circuit at switchboard for making tests from a local test cabinet No. 3 in the dial office.

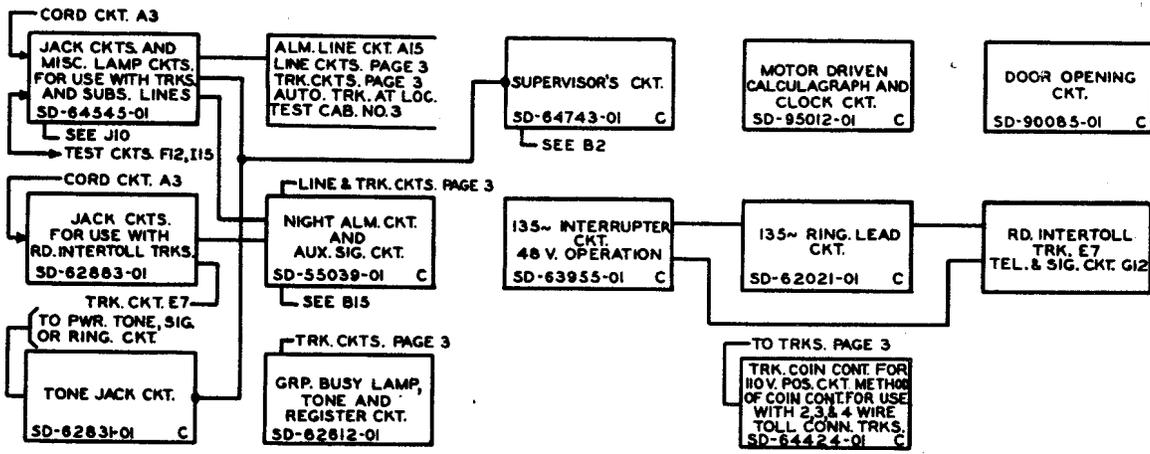






ALARM CKTS. AND TESTING AND MAINTENANCE CKTS.

A  
B  
C  
D  
E



16

17

18

19

20

MISCELLANEOUS CIRCUITS

**CURRENT DRAIN  
AMPERE HOURS PER BUSY HOUR**

CIRCUIT DRAWINGS		SEE NOTE NO.	REMARKS	DRAINS LIST 1 & LIST 2										
CIRCUIT TITLE	CIRCUIT NO.			48V. TALK.			48V. SIG.			24V. SIG.				
				BAT.	F.P. GRD.	SWBD GRD.	BAT.	F.P. GRD.	SWBD GRD.	BAT.	F.P. GRD.	SWBD GRD.		
CORD-TOLL	SD-64737-01						.006			.005				
DIAL	SD-64741-01						.010	.010		.021	.010			
GROUPING	SD-64740-01						.019	.019		.103				
GROUP BUSY LAMP, TONE, REG.	SD-62612-01		PER GRP. 5 OUT. TRKS. EACH ADDL. KI LAMP							.081	.062			
										.008	.008			
JACKS FOR INTERTOLL TRKS.	SD-62683-01		PER AI LINE LAMP							.0005	.0005			
JACKS AND LAMPS FOR TRKS.	SD-64545-01		PER AI TRK. LAMP							.001	.001			
			PER AI SUB. LINE LAMP							.0002	.0002			
			PER KI GRP. BUSY LAMP							.0285	.0285			
LINE -RURAL	SD-55125-01						.008	.008			.008			
POSITION	SD-64736-01						.067	.067		.041	.123			
TELEPHONE - OPERATORS	SD-55110-01						.091	.091						
TRUNK - INTERPOSITION	SD-62771-01									.009	.011			
TRUNK-RECORDING COMPLETING	SD-55119-01						.066	.050		.062		.022		
TRUNK-RECORDING COMPLETING	SD-55120-01						.033	.021		.031		.007		
TRUNK-TOLL SWITCHING	SD-55122-01						.122	.122				.021		
TRUNK - R.D. INTERTOLL	SD-55123-01	1							.025	.025		.039		
		2							.024	.024				
		3										.026	.026	
TRUNK-2 WAY	SD-55255-01		LOOP SIG.				.040	.065				.019		
			CX. OR SX. SIG.				.050	.074				.019		
TRUNK- TOLL SWITCHING	SD-55346-01	4	WET DRY SUPV.				.060	.080				.031		
		5					.193	.154				.031		

**NOTES:**

1. ADDL. DRAIN FOR 20~ SIG. WITH 196 TYPE RELAY.
2. ADDL. DRAIN FOR 135~ SIG.
3. ADDL. DRAIN FOR CONNECTION TO INTERTOLL SELECTOR MULTIPLE.
4. REVERSED BATTERY WITH THRU SUPERVISION.
5. REVERSED BATTERY WITHOUT THRU SUPERVISION.

C.B.  
SUBS. LINE  
NON-COIN

1000<sup>00</sup>  
MIN. INS. RES.  
10,000<sup>00</sup>

355A DIAL OFFICE

C.B.  
SUBS. LINE  
PREPAYMENT  
COIN BOX

SEE NOTE 2  
MIN. INS. RES.  
10,000<sup>00</sup>

TOLL SWBD.  
NO. 3CF

MAGNETO  
RURAL  
SUBS. LINE

SEE NOTE 3  
MIN. INS. RES.  
10,000<sup>00</sup>

355A  
DIAL OFFICE

A

