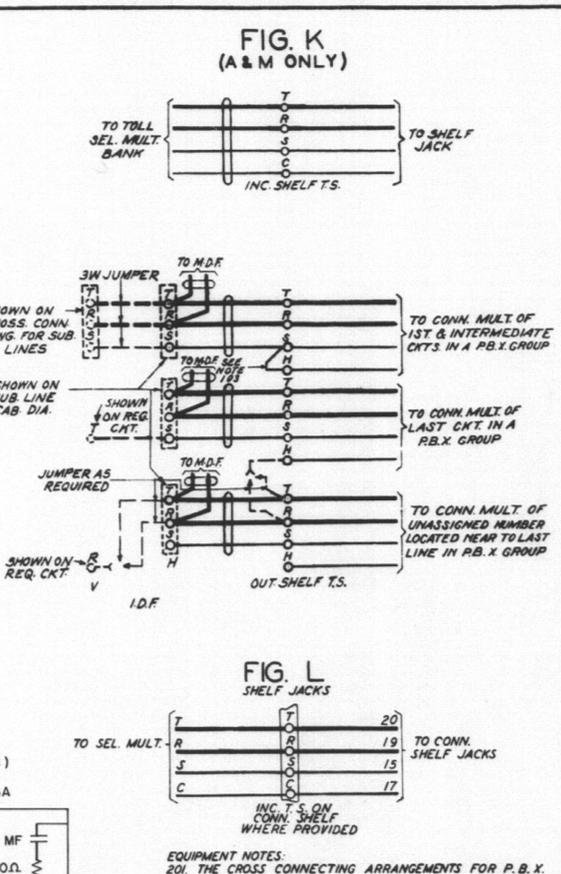
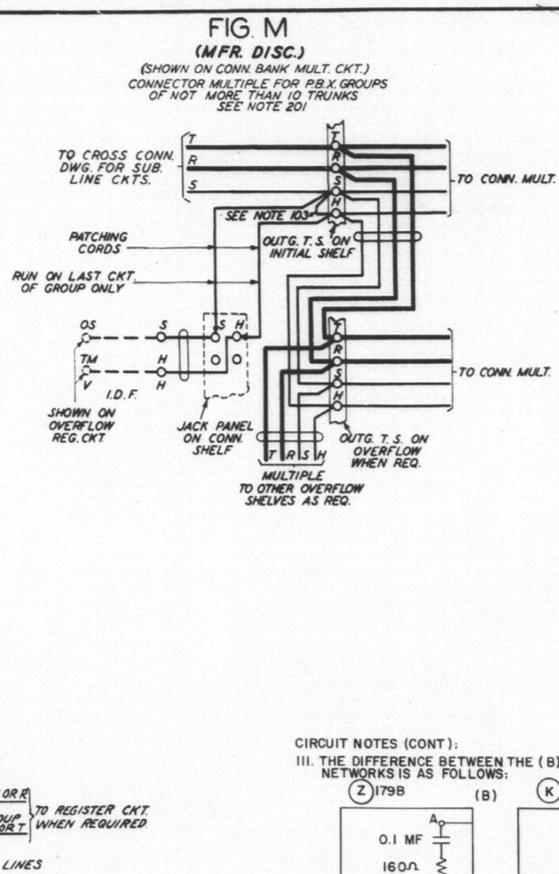
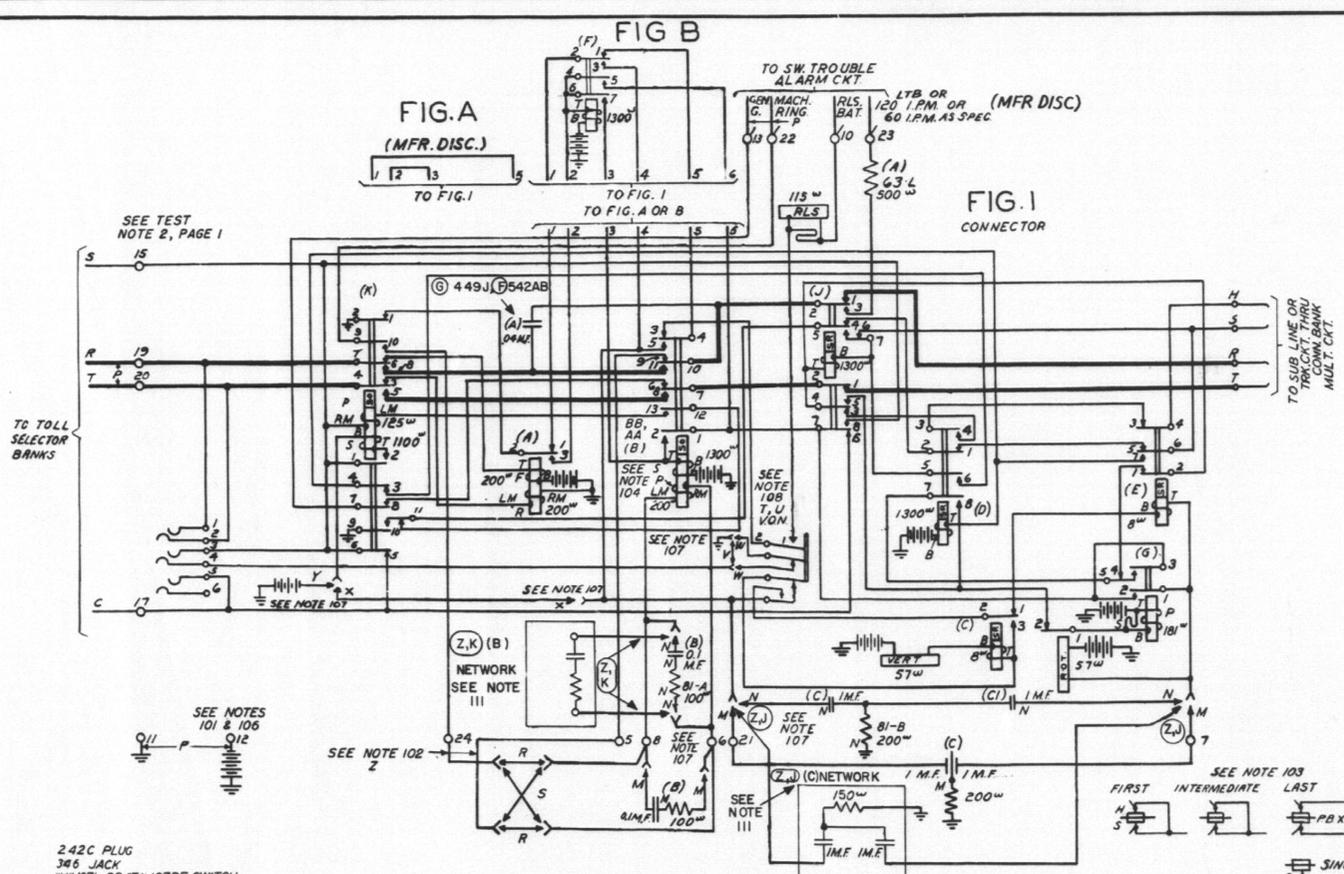


SD-3114-01		2 PAGES		CIRCUIT REQUIREMENTS									
TOLL HUNTING CONNECTOR (TOLL CONN ROT H)													
APPARATUS	MECH. REQ.	CIRCUIT PREPARATION	TEST SET	SEE TEST	DIRECT CURRENT	FLOW REQ.	TIME REQ.	REMARKS					
DESIG. CODE	BSP FIG.	ARM TRVL.	RESID.	BLOCK OR INSULATE	TEST CLIP DATA	TEST SET NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.
RELAYS (FIG. 1)													
A	224A	27	29	S-4	2 (ROT)	2 (E)	2 (E)	2 (E)	2 (E)	2 (E)	2 (E)	2 (E)	2 (E)
TEST NOTES:													
1. CONNECT GROUND TO SLEEVE WIPER AND TO TEST JACK 3.													
2. JACK SPRINGS "13" AND "15" SHALL MAKE CONTACT WHEN SWITCH IS REMOVED.													
3.													
4. ARMATURE NEED NOT TOUCH CORE.													
5. FOR USE ONLY WHEN TIME REQ. ARE NOT APPLIED.													
6. PRIOR TO ISSUE 4-D, TEST VALUES FOR RELAY (G) WERE OPERATE 135 MA, NON-OPERATE 75 MA.													
7. TEST HOLD-USE LEAK "A" IN PULSING TEST SET.													
8. FOR USE WHEN TIME REQ. ARE APPLIED.													
9.													
10.													
11.													

DESIG. CODE	BSP FIG.	ARM TRVL.	RESID.	BLOCK OR INSULATE	TEST CLIP DATA	TEST SET NO.	SEE TEST	DIRECT CURRENT	FLOW REQ.	TIME REQ.	REMARKS
J	223-C	205	14	S-4	2 (ROT)	2 (E)	2 (E)	2 (E)	2 (E)	2 (E)	TEST-CONTACT PRESSURE SPGS. 6T-7T MIN. 10 GRAMS.
K	224AA	227	29	S-4	13(B)	13(B)	13(B)	13(B)	13(B)	13(B)	
"BB" OPTION											
B	222EP	174	27	S-4	7B(J)	1(A)	1(A)	1(A)	1(A)	1(A)	ADJ. "B" REQ. FOR SPRS 1 & 2 ONLY
"AA" OPTION											
B	222EP	175	27	S-4	7B(J)	1(A)	1(A)	1(A)	1(A)	1(A)	ADJ. "B" REQ. FOR SPRS 1 & 2 ONLY ADJ. "A" REQ. FOR SPRS 1 & 2 ONLY
FIG. B											
F	222LB	14	12	S-4	7(F)	1(K)	1(K)	1(K)	1(K)	1(K)	



242C PLUG
346 JACK
"U" 197L OR "T" 197BF SWITCH

MFR. DISC. CIRCUIT NOTES:
SEE NOTE 101-THERE SHALL BE ONE LEAD FROM 48V TALKING BAT. EQUIPPED WITH A 3 AMP FUSE FOR EACH CIRCUIT.

(MFR. DISC.)
102-CONNECTIONS TO JACK SPRINGS "5" AND "24" ARE SHOWN FOR SUPERIMPOSED RINGING CURRENT WHEN A SUPERIMPOSED IS USED TRANSPOSE LEADS "Z"

103-WHEN THERE IS A PLURALITY OF TRUNKS ASSIGNED TO A GROUP THE "H" AND "S" BANK CONTACTS OF EACH TRUNK ARE TO BE CONNECTED TOGETHER EXCEPT THE "H" AND "S" CONTACTS OF THE LAST TRUNK SINGLE LINES WHICH THIS CONNECTOR SELECTS ARE TO BE TREATED IN THE SAME MANNER AS THE LAST TRUNK OF A GROUP OF TRUNKS, NAMELY, NO CONNECTION BETWEEN THE "H" & "S" BANK CONTACTS

104-SEE WORKING LIMITS FOR (B) REL. REQUIRED.

105-

106-PROVIDE ONE LEAD FROM 48V TALKING BATTERY EQUIPPED WITH A 1 AMP FUSE FOR EACH CIRCUIT. PRIOR TO ISSUE 6-D NOTE 101 WAS NOT RATED "MFR. DISC." AND THIS NOTE WAS NOT SHOWN.

107. RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES

CHANGED ON ISS.	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN.	SEE NOTE	USE IN CIRCUIT
				STD. A&M M.D.
2-B	X OR Y	Y	Y	X
6-D	N OR M	M	N	M
11-D	V OR W	W	V	W
13-D	Z	N OR M	Z	N, M
14-B	FIG. A OR B	FIG. A	B	A
15-D	T OR U	U	T	U
16D				
	K, B, J	Z	III	K, J
	Z	FOR G	NONE	F

108. THE DIFFERENCE BETWEEN "T" AND "U" OPTIONS IS AS FOLLOWS:

109. PROVIDE "R" OPTION FOR AC-DC OR SUPERIMPOSED NEGATIVE RINGING.
PROVIDE "S" OPTION FOR SUPERIMPOSED POSITIVE RINGING.

110. "S", "R", "AA", "B" OPTIONS WERE ASSIGNED ON ISSUE 6D.

CIRCUIT NOTES (CONT):
III. THE DIFFERENCE BETWEEN THE (B) & (C) NETWORKS IS AS FOLLOWS:

FIGS.	APP OR WIRING
1	Z
	Y
	X
	W
	V
	U
	S
	R
	L
	M
	N
	K
	J
	G
	F
	AA
	BB

WORKING LIMITS

TRIPPING-RANGES

TYPE OF RINGING AND DISTRICT	RINGING INTERVAL VOLTAGE		SILENT INTERVAL VOLTAGE	CODE OF (B) RELAY	OPTION RATING	MAX. EXT. CKT. LOOP FOR TRIPPING		
	NO. 1	NO. 350 A				ADJ. "A"	ADJ. "B"	ADJ. "C"
AC-DC	84-88 (1) AC	72-88 OR 84-88 AC	45-52	222ER	BB	1115 ^W	-	1400 ^W
	45-52 DC	45-52 DC	45-52	222ER	BB	1115 ^W	-	1400 ^W
SUP. TUBE ± 5V. E.P.	84-88 (1) AC	72-88 OR 84-88 AC	45-52	222ER	BB	1115 ^W	-	1500 ^W
	37-40 (3) DC	37-40 (3) DC	60-75	222EP	AA	A&M	-	1500 ^W
SUP. INVERTED 42A AND TUBE	84-88 (1) AC	72-88 OR 84-88 AC	60-75	222EP	AA	A&M	1040 ^W	-
	33-40 (3) DC	37-40 (3) DC	60-75	222EP	AA	A&M	1040 ^W	-
SUP. 42A, INVERTED 42A, AND TUBE	76-80 (2) AC	72-88 OR 84-88 AC	60-75	222EP	AA	A&M	900 ^W	-
	42-46 DC	37-40 DC	60-75	222EP	AA	A&M	900 ^W	-

(1) 72-88 AC & 80-88 AC ARE A & M IN NO. 1
(2) 64-80 AC & 72-80 AC ARE ALSO A & M IN NO. 1
(3) 64-80, 72-80 OR 76-80 AC & 42-46 DC ARE ALSO A & M IN NO. 1 & 350 A

EQUIPMENT NOTES:
201. THE CROSS CONNECTING ARRANGEMENTS FOR P.B.X. GROUPS OF MORE THAN 10 TRUNKS ARE COVERED ON ED-30324-01

REPLACES ES-30240-01 AND ES-30188-01

SD-3114-01

2099

STEP-BY-STEP SYSTEMS
NO. 1 OR 350A
TOLL CONNECTOR CIRCUIT
ROTARY HUNTING
SELECTIVE OR SEMI-SELECTIVE RINGING
LOOP DIALING TOLL TRAIN

A & M ONLY

(TOLL CONN ROT H)

BELL TELEPHONE LABORATORIES, INC.

PRINTED IN USA

ISS	C.D.	DATE OF ISSUE	APPROVED
1	1	10-27-51	W.L.D.
2-B	1	6-20-52	W.L.D.
3-D	1	4-17-53	W.L.D.
4-D	1	10-7-53	W.L.D.
5-D	1	9-26-53	W.L.D.
6-D	1	7-21-54	W.L.D.
7-D	1	5-3-55	W.L.D.
8-D	1	2-27-55	W.L.D.
9-D	1	10-27-55	W.L.D.
10-D	1	9-22-56	W.L.D.
11-D	1	11-10-56	W.L.D.
12-B	1	11-10-56	W.L.D.
13-D	1	2-24-57	W.L.D.
14-B	1	4-29-57	W.L.D.
15-D	1	2-16-57	W.L.D.
16-D	1	4-9-57	W.L.D.
17-D	1	12-11-57	W.L.D.
18-B	1	1-25-58	W.L.D.
19-B	1	2-18-58	W.L.D.
20-D	1	1-6-66	W.L.D.
21-D	1	11-10-72	W.L.D.

226-430-501
226-430-500
226-425-500
226-400-500
225-205-502
225-205-501
225-205-500

MAINTENANCE BSP

NO 350A - SD-31364-01

KEYSHEETS

ED-3114-02

EQUIPMENT INFO.

ISSUE 21D

SD-3114-01