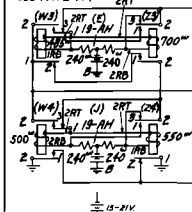


FIG. 1A 43-AD, 2500?
 SEE 584-DD, 2500?
 NOTES, OR 584-DE, 4300?
 103, 105
 & 108

FIG. 1
 RING & TIMING CKT.
 SEE NOTE 104



WORKING LIMITS:
 MAX. CONDUCTOR LOOP RES. OF
 RING LEADS TO CENT OFF 650"
 MAX. EXT. CKT. LOOP FOR (B)/(REL) 430"

CIRCUIT NOTES

- 101 PROVIDE ONE 1/4 AMPERE FUSE FOR BATTERY DESIGNATED "X".
- 102 PROVIDE ONE 1/4 AMPERE FUSE FOR BATTERY DESIGNATED "B".
- 103 PROVIDE ONE 1/4 AMPERE FUSE FOR BATTERY FIG. 2.
- 104 REL PROVIDED NOT MORE THAN FOUR. FIGS. 1-A & 2-A ALL LEADS IN FIGS. 1 & 2 SHALL BE RUN IN A SEPARATE CABLE FOR THE MANUFACTURE OF THE 43-AD SUB SET FOR USE IN THIS CIRCUIT HAS BEEN DISCONTINUED. THE 43-AD SUB SET IS SUPERSEDED BY THE 584-DD SUB SET ON ISSUE 7-D OF THIS CIRCUIT PRIOR TO ISSUE 7-D OF THE 584-DD SUB SET WAS NOT SHOWN.
- 105 PRIOR TO ISSUE 7-D THE "M" AND "N" LEADS WERE NOT SHOWN.
- 106 PRIOR TO ISSUE 7-D THE CAPACITY OF THE (G) COND. WAS SHOWN AS 18.84 TO 20.52 M.F. THE USE OF THIS CAPACITY FOR THE 100 OHM IS RATED INFR. DISC. ON THIS ISSUE.
- 107 THE MANUFACTURE OF FIG. 3-A 584-DD SUB SET, AND THE 100 OHM BELL FOR USE IN THIS CIRCUIT HAS BEEN DISCONTINUED. FIG. 3-A ARE SUPERSEDED BY FIG. 3-B 584-DE SUB SET, AND 7-A BELL ON ISSUE 8-D. PRIOR TO ISSUE 8-D FIG. 3-B, 584-DE SUB SET, AND 7-A BELL WERE NOT SHOWN.
- 108 THE USE OF "Y" WIRING IN THIS CKT. IS RATED "NFR. DISC." AND IS SUPERSEDED BY "Y" WIRING AND APPARATUS ON ISSUE 10-D. PRIOR TO 10-D "Y" WIRING WAS PART OF FIG. 1 AND "Y" WIRING AND APPARATUS WERE NOT SHOWN.
- 109 PROVIDE "W" WIRING AND APPARATUS WHEN THE LAMPS ARE TO FLASH ON INC. TRK. CALLS, OTHERWISE, PROVIDE "Z" WIRING. PRIOR TO ISSUE 12-D "W" WIRING AND APPARATUS WERE NOT SHOWN AND "Z" WIRING WAS PART OF CKT.

TO STATION
 CIRCUIT
 WHEN SPEC.

TO CENTRAL OFFICE
 CONTINUOUS
 RINGING CURRENT

750-A P.B.X. TONE, RINGING AND ALARM CIRCUIT

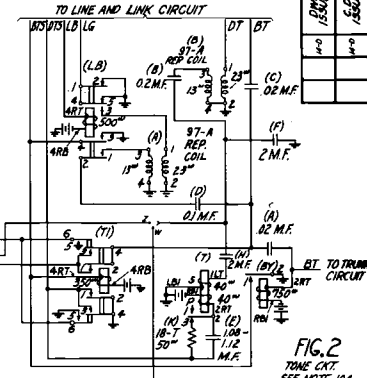
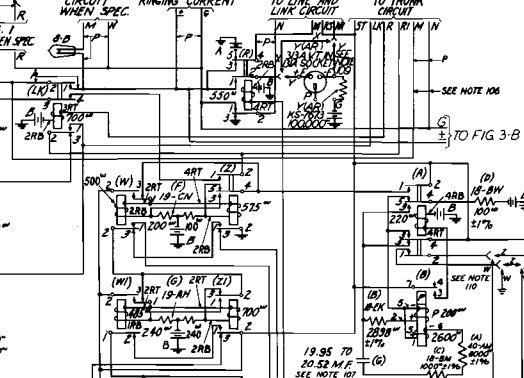


FIG. 2
 TONE CKT.
 SEE NOTE 104

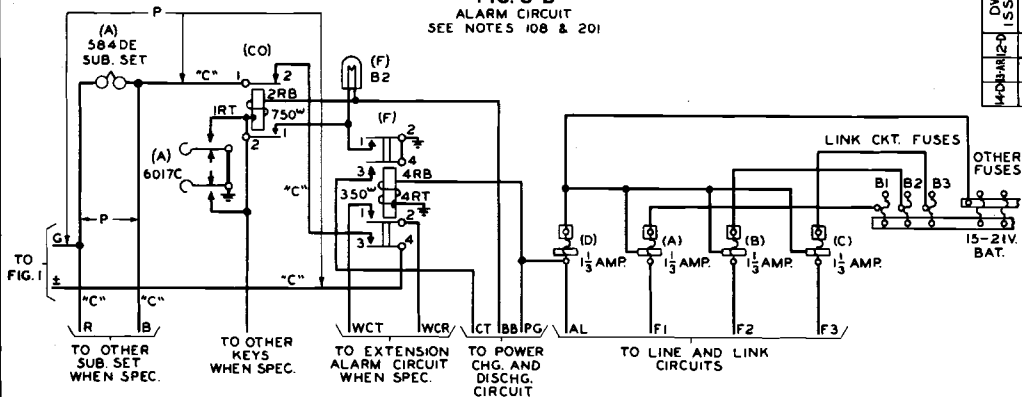
FIG. 3-A (INFR. DISC.)
 ALARM CIRCUIT
 SEE NOTE 108

REVISE	ISSUE	DATE
4-0	4-0	4-0

10-19199-05

FIG. 3-B
ALARM CIRCUIT
SEE NOTES 108 & 201

DWG. ISSUE	C.D.
14-DB-ARI-2-D	14-DB-ARI-2-D
	15-SUE



CURRENT DRAIN IN AMPERE SECONDS
PER AVERAGE CALL

18V.	GRD.
3.86	-

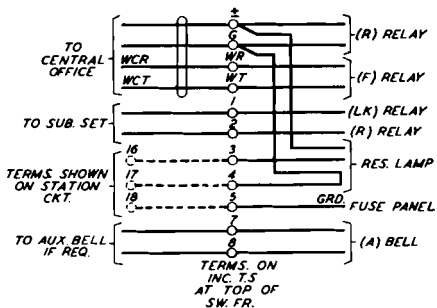
MAX. INST. CURRENT IN AMPS.
AT VOLTAGE LISTED BELOW

15V.	GRD.
0.46	0.22

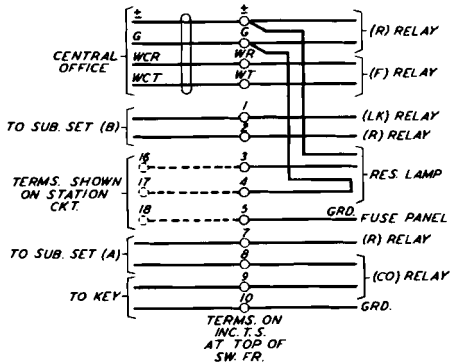
PRINTED IN U.S.A.

SD-66161-01

FIGS. 1K, 2K, & 3K (MFR. DISC.)



FIGS. 1L, 2L, & 3L



EQUIPMENT NOTES:
 20. TO OBTAIN A UNIVERSAL EQUIPMENT ARRANGEMENT FOR BOTH SIZE P.B.X.S. THE (B2) FUSE AND THE ASSOCIATED LINK IS ALWAYS PART OF THE LAST CKT. IN THE CHAIN WHETHER THERE ARE TWO OR THREE LINKS.

		14-D	DWG. ISSUE
		14-D	C.D. ISSUE

SD-66161-01

PRINTED IN U.S.A.

CIRCUIT REQUIREMENTS

750-A P.B.X. TONE RINGING & ALM. CKT. (T. RING & ALM)

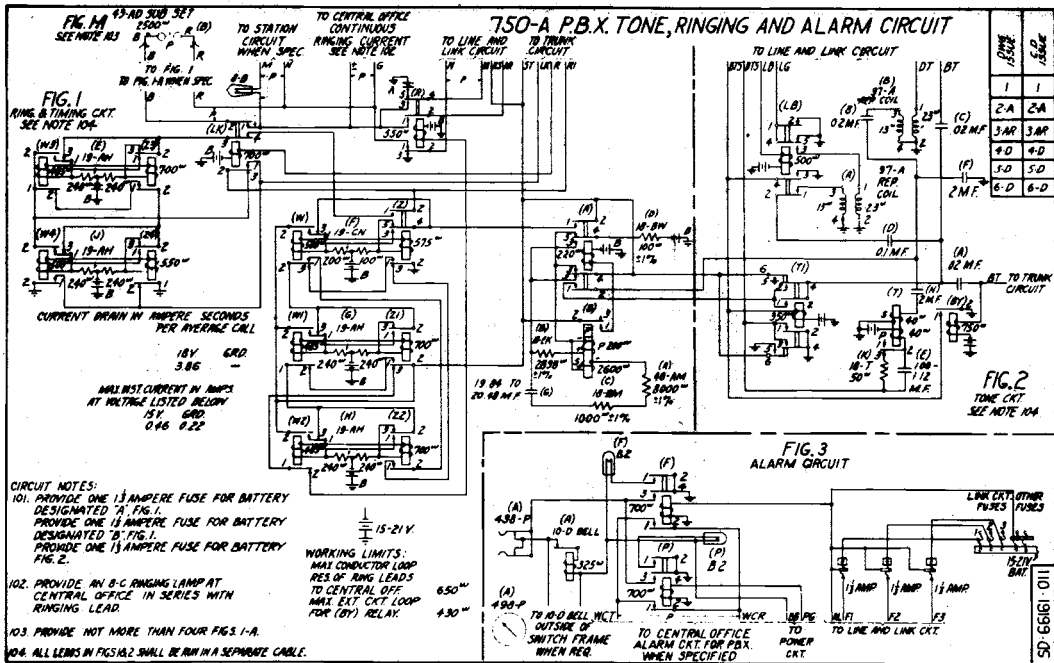
APPARATUS	MECH. REQ.	CIRCUIT PREPARATION	TEST	SEE	DIRECT CURRENT FLOW REQ.	REMARKS									
							TEST	TEST	TEST	TEST	TEST	TEST			
MSG. CODE	U S P FIG	WINDING WIRE	REQ SW POS	BLOCK	TEST CLIP DATA CONN (A) CONN (C)	TEST NOTE PREP	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.	TEST NO.
RELAYS															
A	818	8/8	L	020											
					RT(A)	GRD							0275	020	INSULATE SB(A), SB(A), ST(2), SB(2), & ST(W)
B	231-42	12			(A) NO	3(B)	2(B)	B/G	11	P	0		0021	002	RELAY OPERATES IN EITHER DIRECTION.
					(A) NO	3(B)	2(B)	B/G	11	P	NO		0008	001	ON CURRENT REVERSALS.
					(A) NO	6(B)	1(B)	B/G	11	S	0		0008		INSULATE ST & SB(A).
LF	9373	23/11	L	030											
					RT(LF)	GRD							016	017	"W" APPARATUS.
LR	2782	10/3	H	020											
					RT(LR)	GRD							0162	015	INSULATE IT (LX).
R	8184	8/3	H	020	(WR) 0								024	043	
W	1104	16/3	H	020									01	016	WINDING ALONE
					(2) NO	RT(W)	GRD	5					029	033	FOR CKT. COMB. OF (W) & (2) RELAYS.
W1	2134	16/2	L	025									015	015	WINDING ALONE
					(2) NO	RT(W1)	GRD	6					025	028	FOR CKT. COMB. OF (W1) & (2) RELAYS.
W2	2134	14/2	L	025									015	015	WINDING ALONE
					(2) NO	RT(W2)	GRD	7					025	028	FOR CKT. COMB. OF (W2) & (2) RELAYS.
W3	2134	16/2	L	025									015	015	WINDING ALONE
					(2) NO	RT(W3)	GRD	8					025	028	FOR CKT. COMB. OF (W3) & (2) RELAYS.
W4	2200	16/1	H	025									017	016	WINDING ALONE
					(2) NO	RT(W4)	GRD	9					025	028	FOR CKT. COMB. OF (W4) & (2) RELAYS.
Z	2211	8/3	H	020	(W) NO								018	018	WINDING ALONE
					(W) NO	RT(Z)	GRD	10					030	030	FOR CKT. COMB. OF (Z) & (W) RELAYS.
Z1	2923	3/3	H	020									035	0120	WINDING ALONE
					(W) NO	RT(Z1)	GRD	1					025	025	FOR CKT. COMB. OF (Z1) & (W) RELAYS.
Z2	2176	3/1	H	020									035	0121	WINDING ALONE
					(W2) NO	RT(Z2)	GRD	2					025	025	FOR CKT. COMB. OF (Z2) & (W2) RELAYS.
Z3	2176	3/1	H	020									025	0121	WINDING ALONE
					(W3) NO	RT(Z3)	GRD	3					025	025	FOR CKT. COMB. OF (Z3) & (W3) RELAYS.
Z4	2964	3/2	H	020									016	013	WINDING ALONE
					(W4) NO	RT(Z4)	GRD	4					035	025	FOR CKT. COMB. OF (Z4) & (W4) RELAYS.

TEST NOTES:

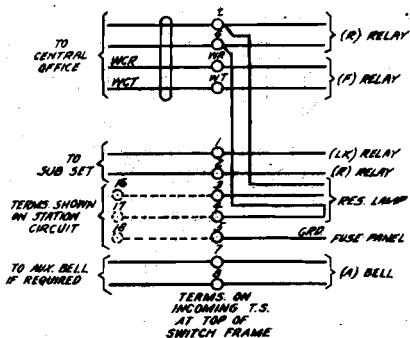
- INSULATE ST(W1).
- INSULATE ST(W2).
- INSULATE ST(W3).
- INSULATE ST(W4).
- INSULATE ST(2) AND RT(W).
- INSULATE ST(2) AND ST(W).
- INSULATE ST(2) AND RT(W2).

- INSULATE ST(Z3).
- INSULATE ST(Z4).
- INSULATE ST(W).
- REMOVE WIRE FROM 8(B).

APPROPRIATE RESG CODE	MECH. REQ BSP FIG.	CONT. PROB. RESISTIVE	REQ. SW POS.	CIRCUIT PREPARATION BLOCK	TEST CLIP DATA CONN. BAT. CONN. GRD.	TEST SET NOTE NO.	SEE TEST NO.	DIRECT CURRENT FROM RESG			REMARKS	
								TEST NO.	TEST NO.	TEST NO.		
FIG. 2 RELAYS												
RY 1117	T	H	015	(1) NO.	RY(T) GRD.		0				.017 .011	
LB E346	T/11	H	010		RY(LB) GRD.		0				.027 .025	
T 533					RY(T) GRD.		P 0				.023 .026	
					RY(T) GRD.		P NO				.036 .027	
					ILT(T)		BAT.		5 0		.027	
TY E1360	Z/126	L	030		RY(T) GRD.		0				.030 .024	
FIG. 3-A MAGNETS												
A 7-A OR 10-D BELL										0		CONNECT GROUND DIRECTLY TO 3T(F).
RELAYS												
F R721	11/1	H	015		RB(F)		BAT.		0		.019 .013	OPR. (A) KEY AND INSULATE 1B(F) AND 17(F).
P R721	11/1	H	015		RB(P)		BAT.		0		.015 .013	OPR. (A) KEY AND INSULATE 1B(P) AND 17(P).
FIG. 3-B RELAYS												
CO E1254	2/1	H	015		RT(CO) GRD.		0				.012 .011	INSULATE 2B(CO)
F E612	11/11	L	015		RB(F)		BAT.		0		.023 .020	



FIGS. 1-K, 2-K AND 3-K



6-0	5-0	4-0	3-AR	2-A	1	DWG. ISSUE
6-0	5-0	4-0	3-AR	2-A	1	C.D. ISSUE

SD-66161-012

CIRCUIT REQUIREMENTS

750-A P.B.X. TONE RINGING & ALM. CKT. (T. RING & ALM)

SYMBOL	MECH. REQ.	CIRCUIT PREPARATION	TEST SET	SEE TEST NOTE NO.	DIRECT CURRENT FROM BKG	TEST READ	REMARKS
RELAYS							
A	125A 9/1	L 400					
B	230-A 12						
		(1) NO	TER 10	TER 6 (0) B/G	11	P 0	0.021 0.008 INSULATE 3T(A), 3T(B), 3T(C) & 3T(M).
		(1) NO	TER 10	TER 6 (0) B/G	11	P 10	0.000 0.001 RELAY OPERATES IN EITHER DIRECTION.
		(1) NO	TER 10	TER 6 (0) B/G	11	S 0	0.000 0.001 ON CURRENT REVERSALS.
LK	1013 H 020						
R	1013 H 020						
W	1013 H 020						
		(2) NO	RU(LK)	GRD	5	0	0.012 0.035 INSULATE 1T(LK).
		(2) NO	RU(M)	GRD	5	0	0.022 0.016 WINDING ALONE
		(2) NO	RU(N)	GRD	5	0	0.022 0.015 FOR CKT. COMB. OF (M) & (N) RELAYS.
		(2) NO	RU(O)	GRD	5	0	0.015 0.015 WINDING ALONE
		(2) NO	RU(P)	GRD	6	0	0.025 0.028 FOR CKT. COMB. OF (M) & (P) RELAYS.
		(2) NO	RU(Q)	GRD	6	0	0.015 0.015 WINDING ALONE
		(2) NO	RU(R)	GRD	7	0	0.025 0.028 FOR CKT. COMB. OF (M) & (R) RELAYS.
		(2) NO	RU(S)	GRD	7	0	0.025 0.028 WINDING ALONE
		(2) NO	RU(T)	GRD	8	0	0.025 0.028 FOR CKT. COMB. OF (M) & (T) RELAYS.
		(2) NO	RU(U)	GRD	8	0	0.017 0.016 WINDING ALONE
		(2) NO	RU(V)	GRD	9	0	0.025 0.028 FOR CKT. COMB. OF (M) & (V) RELAYS.
		(2) NO	RU(W)	GRD	9	0	0.018 0.018 WINDING ALONE
		(2) NO	RU(X)	GRD	10	0	0.025 0.016 FOR CKT. COMB. OF (2) & (M) RELAYS.
		(2) NO	RU(Y)	GRD	10	0	0.025 0.020 WINDING ALONE
		(2) NO	RU(Z)	GRD	1	0	0.025 0.025 FOR CKT. COMB. OF (2) & (W) RELAYS.
		(2) NO	RU(1)	GRD	1	0	0.015 0.017 WINDING ALONE
		(2) NO	RU(2)	GRD	2	0	0.025 0.025 FOR CKT. COMB. OF (2) & (W) RELAYS.
		(2) NO	RU(3)	GRD	2	0	0.025 0.025 WINDING ALONE
		(2) NO	RU(4)	GRD	3	0	0.025 0.025 FOR CKT. COMB. OF (2) & (W) RELAYS.
		(2) NO	RU(5)	GRD	3	0	0.016 0.013 WINDING ALONE
		(2) NO	RU(6)	GRD	4	0	0.025 0.025 FOR CKT. COMB. OF (2) & (W) RELAYS.

TEST NOTES:

- INSULATE 3T(M).
- INSULATE 3T(N).
- INSULATE 3T(O).
- INSULATE 3T(P).
- INSULATE 5T(Z) AND 2T(W).
- INSULATE 3T(Z) AND 2T(W).
- INSULATE 3T(Z) AND 2T(W).

- INSULATE 3T(Z).
- INSULATE 3T(Z).
- INSULATE 3T(M).
- REMOVE WIRE FROM TERM. 2(B).

FIG. NO.	CODE	D SWP FIG.	INT. WIRE	WIRE POS.	CIRCUIT PREPARATION		TEST SET WIRE NO.	SELF TEST NOTE NO.	TEST POINTS		TEST READ.	REMARKS	
					BLOCK	TEST CLIP DATA			TEST WIRE NO.	TEST POINT			
FIG 2													
RELAYS													
RP	1077	1	H	103	(1)103	R(1)103			0		011	011	
LB	2346	7/11	H	103		R(1)103			0		027	025	
Y	551					T(1)103			P 0		025	025	
						T(1)103			P 10		027	027	
						T(1)103			S 0		027		
TI	1120	2/12	L	103		MULTI 103			0		030	026	
FIG 3													
MOMENTS													
A	10-D								0		CONNECT GROUND DIRECTLY TO 3T(F).		
RELAYS													
F	R721	11/1	H	103		RL(F)			0		013	013	OPR. (A) KEY AND INSULATE 10(F) AND 17(F).
P	R721	11/1	H	103		RL(P)			0		013	013	OPR. (A) KEY AND INSULATE 10(P) AND 17(P).