SHEET INDEX

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CIRCUIT NOTES:

101.

DESIG	AMP	POTENTIAL FUSED	ONE PER
TTA	1-1/3	-48V	CKT
TTB	1-1/3	-48V	CKT
TTA		GRD	CKT
TTB		GRD	CKT

BATTERY SYMBOL	VOLTAGE RANGE
-48V	46 - 52.6

102.

FEATURE OR OPTION		PROVIDE FIG.	APP OR WRG	QUANTITY
INITIAL POWER PLANT EQUIP	AC DISTR CKT	1		1 PER SLIDE
	1ST -48V RECT	2		
	2ND -48V RECT	3		
	DC DISTR & ALM CKT	5		
	RINGING BATTERY FUSE ALARM	5B		
	+48V/10V AC RECT	6		
	RINGING & TONE CKT WITH TOUCHTONE PROVIDED	7	S,Y	
	TERMINAL BLOCKS	8		
	LOAD CAPACITOR CIRCUIT	9		
	LOAD CAPACITOR CIRCUIT	10		
SEE NOTE 107		A		1 PER SLIDE
SEE NOTE 107		B		
SEE NOTE 107		D		
SEE NOTE 107			Z	
SEE NOTE 108			Y	
SEE NOTE 107		E		1 PER SLIDE

CIRCUIT NOTES (CONT)

103.

NETWORK NO.	NETWORK CODE	RESISTANCE IN OHMS	CAPACITANCE IN UF

104.

CHANGED ON ISS	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT STD	A&M	MD	
3A	Z	Z	107	Z			
7B	Y	NONE	108	Y			
7B	FIG.5A OR FIG.5B	FIG. 5A	108	FIG.5B		FIG.5A	
9D	W OR X	X		W		X	
10B	U OR V	V		U		V	
11D	S OR T	T	102,109	S		T	
12D	Q OR R	R		Q		R	
13B	N OR P	P		N		P	
14D	L OR M			L		M	
15B	FIG.C OR FIG. E	FIG.C	107	FIG.E		FIG.C	
16D	K	Q		K		Q	
16D	J	NONE	211	J			

105. 1028 FREQUENCY GENERATOR LEADS SHALL BE CONNECTED TO PROVIDE REQUIRED OUTPUT AS FOLLOWS.

(MFR DISC)

BET. TERMINALS	NO LOAD VOLTAGE
2 AND 3	0.7
3 AND 4	1.6
1 AND 2	2.2
1 AND 3	2.9
1 AND 4	4.5

106. LOAD ON SL/DTT CONSOLE CIRCUITS SHALL BE LIMITED TO 3 AMPERES.

107. FIG.A & C OR E WITH Z OPTION ARE FOR USE TO EFFECT CONNECTIONS WHEN SLIDE IS USED AS SLIDE NO. 1 IN POWER CABINET, WHEREAS FIGURES B AND D WITHOUT Z OPTION ARE FOR USE TO EFFECT CONNECTIONS WHEN SLIDE IS USED AS SLIDE NO. 1 IN PBX CABINET.

108. Y OPTION MUST BE FURNISHED WITH FIG. 5B.

109. (MFR DISC)

FEATURE OR OPTION	PROVIDE FIG.	APP OR WRG	QUANTITY
LOAD CAPACITOR PANEL	4		1 PER SLIDE
	5A		
RINGING AND TONE CKT WITH LT2 FOR DIAL TONE	7	T,Y	
SEE NOTE 107	C		

110. PRIOR TO ISSUE 15B, TERMINALS Y,X AND W WERE FORMERLY DESIGNATED 1,2 AND 3 RESPECTIVELY.

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING	J-868088-( )
EQUIPMENT DESIGN REQT	J-86808
MAINTENANCE SPEC	167-486-301

OPTION INDEX

APP OR WIR	LOCATION
Z	3C8
Y	4C5
X	3B2,3B5,4H2,4C6,5C0
W	3B2
V	3A8,3G5
U	3A8,3G5
T	4C6,5F1
S	4A1
R	4C8
Q	4C8
P	3G1
N	3G1
M	4H9
L	3E8,4H9,4I0
K	4B8,4C9
J	4B0

DWG ISS	CD ISSUE	DWG ISS	CD ISSUE	DWG ISS	CD ISSUE
1	1	2A	1 APP 1A	3A	2A
4A	2A APP 1A	5A	2A APP 2A	6A	2A APP 3A
7B	2A APP 4B	8B	2A APP 5B	9D	3D
10B	3D APP 1B				

DWG ISS	CD ISSUE	DATE ISSUED	DRAWN	APP'D	
11D	3D APP 2D	6-17-65	LKK FJB	HMK DET FC	
12B	3D APP 3B	6-17-65	LKK FJB	HMK DET FC	
13B	4B	9-1966	AWL FC	SR DET FC	WH
14B	4B APP 1B	4-6-67	CWM GJW	SR DET FC	WH
15B	4B APP 2B	9-27-67	ND FJB	HMK DET FC	WH
16D	4B APP 3D	9-12-68	EAM F.C.	HMK DET FC	WH

16

SD-81581-01 1ISS

POWER SYSTEMS

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

J86808B

AT&TCO STANDARD

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

SD-81581-01-1

6 SHEETS

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EQUIPMENT NOTES:

201. WIRE NOT OTHERWISE SPECIFIED SHALL BE KS-13385, 22 GA SOLID. ALL 12 AND 14 GA LEADS SHALL BE KS-13385 STRANDED, EXCEPT AS NOTED.

202. FOR THE 48 VOLT AND 10 VOLT AC LOAD LEADS THE VOLTAGE DROP BETWEEN THE POWER CABINET AND THE PBX CABINETS SHALL BE ENGINEERED NOT TO EXCEED 1/4 VOLT.

203. SLIDE DC CABLING REPRESENTED BY ——— - - ——— - - ——TO BE FURNISHED AS PART OF POWER PLANT.

204. SLIDE AC CABLING REPRESENTED BY ——— - ——— - ——— TO BE FURNISHED AS PART OF POWER PLANT.

205. PBX CABLING REPRESENTED BY — — — — — — — NOT FURNISHED AS PART OF POWER PLANT.

206. (J1) JONES BRACKET TYPE SOCKET S-333-AB TO BE FURNISHED UNDER SPEC J86808H.

207. (J2) JONES BRACKET TYPE SOCKET S-333-AB, MARATHON TERMINAL BLOCKS AND GROUND DETAILS TO BE FURNISHED UNDER SPEC J86808B. JONES TYPE PLUG P-333-CCT (P2) NOT FURNISHED AS PART OF POWER PLANT.

208. (TS3) MARATHON TERMINAL BLOCK AND CO CONN KS-19163,L1 TO BE FURNISHED UNDER SPEC J86808D.

209. THE 404C TONE GENERATOR IS MOUNTED IN POSITION ONE OF CABINET 3, SLIDE 3.

210. CABLING FOR LEADS TTA, GRD TTA, TTB, GRD TTB AND TTI IS SHOWN IN THE PBX CABLING CIRCUIT SD-66735-01. REFER TO THE LEAD INDEX.

211 CABLING INFORMATION FOR LEAD TT2 IS SHOWN IN DRAWING SD-1E054-01 FOR 757A PBX

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
RESISTANCE VALUES ARE IN OHMS,
CAPACITANCE VALUES ARE IN MICROFARADS,
VALUES PRECEDED BY THE SYMBOL +(PLUS) OR -(MINUS) ARE IN VOLTS

302. ALARM RELAYS ARE SHOWN IN A NON-OPERATED POSITION AS WOULD BE THE CASE WITH RECTIFIERS AND RINGING MACHINE IN A NON-OPERATING OR OFF CONDITION.

303. INDIVIDUAL POWER SUPPLY LEADS BETWEEN THE POWER SUPPLY AND THE PBX CABINETS SHALL BE PAIRED LEADS RUNNING CLOSE TOGETHER BUT NOT NECESSARILY TWISTED. (REF BSP 802-005-180).

304. COMMERCIAL AC SERVICE AND RECEPTACLE NOT FURNISHED AS PART OF POWER PLANT. LEADS BETWEEN THE HOUSE SERVICE BOARD AND RECEPTACLE SHALL BE PROTECTED WITH A 20 AMPERE FUSE AND SIZED TO PROVIDE 105 VOLTS MINIMUM AT THE EQUIPMENT.

305. THESE CONNECTIONS ARE PROVIDED WHEN OPERATING POWER FOR 608 TYPE PBX SWITCHBOARDS ARE FURNISHED FROM THIS POWER PLANT.

TABLE A
TIMING SEQUENCE CHART
(FOR RINGING MACHINE AND INTERRUPTER, KS-15985,L1)

PULSE DESIGNATION	DURATION OF PULSE		USE	PULSE NO.	SECONDS 0 1 2 3 4 5 6 7 8
	CONTACT OPEN	CONTACT CLOSED			
120 IPM		0.250 TO 0.300	FT FF1 FF2	1a b c	
60 IPM		0.450 TO 0.550	BT-LT F1 F2	2a b c	
30 IPM	.250 TO .300		SF1 SF2	3a b	
15 IPM		0.250 TO 0.300	SU	4a	
15 IPM (RING)		0.950 TO 1.05	CR R1	5a b	
7 1/2 IPM		0.250 TO 0.300	TMO TM1	6a b	
7 1/2 IPM		0.250 TO 0.300	TM2 TM3	7a b	
7 1/2 IPM DELAYED		0.250 TO 0.300	PU0 PU1	8a b	
7 1/2 IPM DELAYED		0.250 TO 0.300	PU2 PU3	9a b	

0 20 40 60 80 100 120 140 160
REVOLUTIONS OF HIGH SPEED DRIVE SHAFT
(1 REV EQUIVALENT TO .05 SEC)

NOTES:

A. — DENOTES PERIOD DURING WHICH CONTACT IS CLOSED.

B. CLOSURE OF CONTACT 5a IS CONSIDERED AS THE "ZERO" REFERENCE.

C. CONTACT 5b SHALL CLOSE .025 TO .075 SEC AFTER 5a OPENS AND 5b SHALL OPEN .025 TO .075 SEC BEFORE 5a CLOSES.

D. TIMING PULSES SHALL OCCUR WITHIN ±.050 SEC OF THE TIMES SHOWN ON THE TIMING CHART UNLESS OTHERWISE SPECIFIED.

DRAWING ISSUE	
11D	LKK FJB FC
12B	LKK FJB FC
13B	AWL FC FC
14B	CWM GKL FC
15B	
16D	

16

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

(2) SD-81581-01-2

BELL TELEPHONE LABORATORIES INCORPORATED

SIZE 6S

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FIG. B
AC SERVICE FOR PBX CABINET

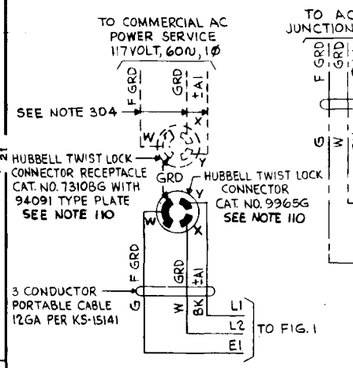


FIG. A
AC SERVICE FOR POWER CABINET

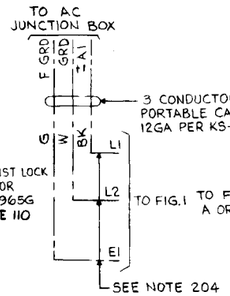


FIG. 1
AC DISTRIBUTION CIRCUIT

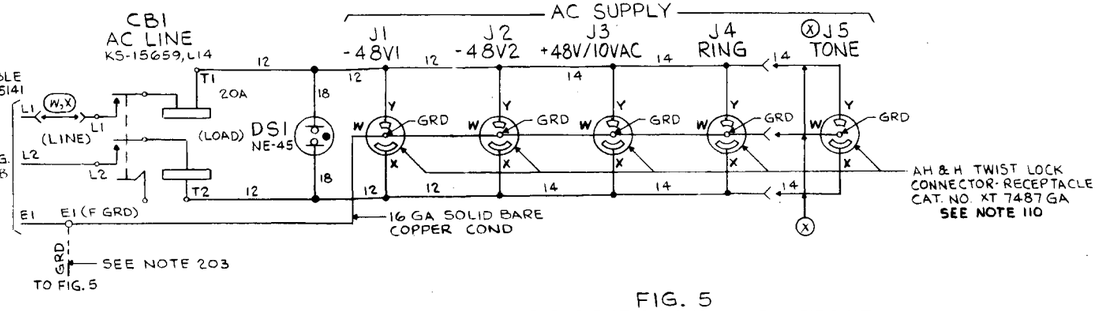


FIG. 2
1ST -48V RECTIFIER CIRCUIT

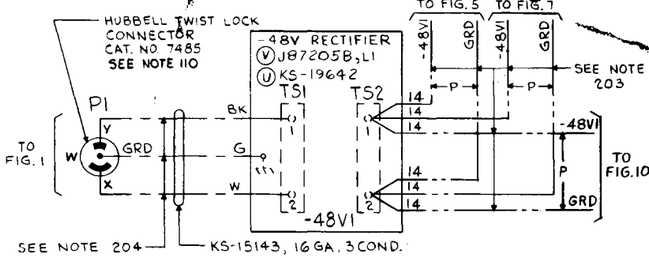


FIG. 5
DC DISTRIBUTION AND ALARM CIRCUIT
(SEE NOTE 302)

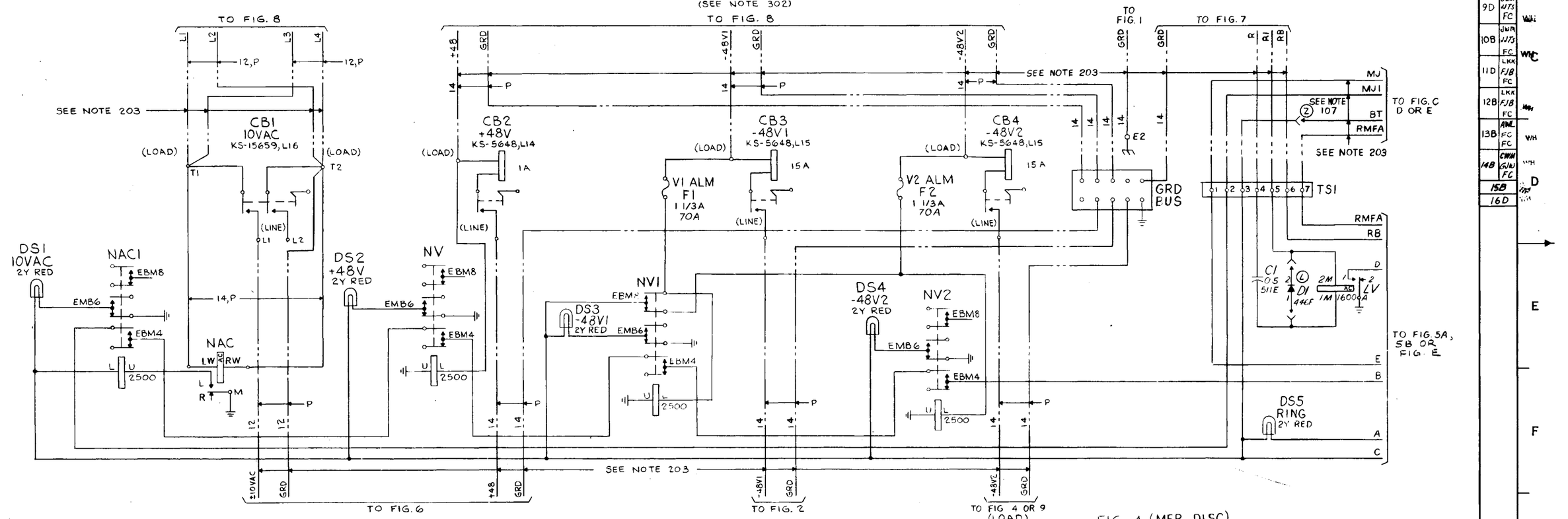


FIG. 6
+48V RECTIFIER AND 10VAC SUPPLY CIRCUIT

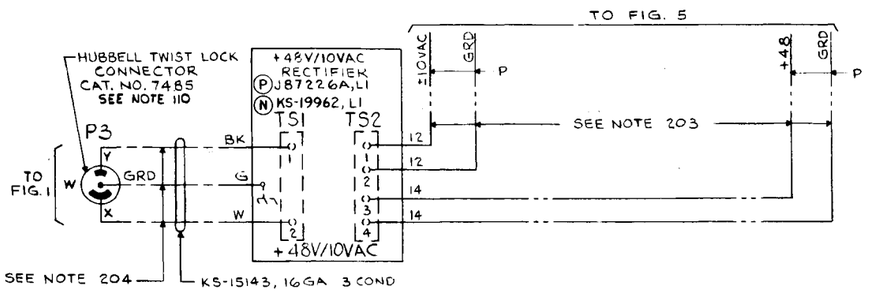


FIG. 3
2ND -48V RECTIFIER CIRCUIT

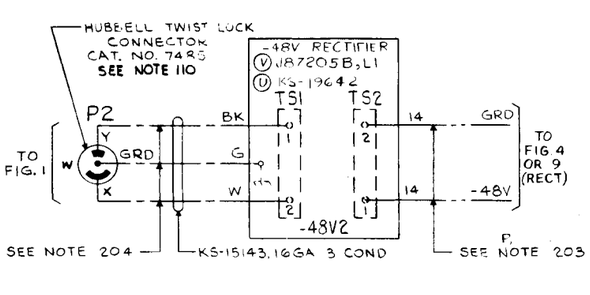
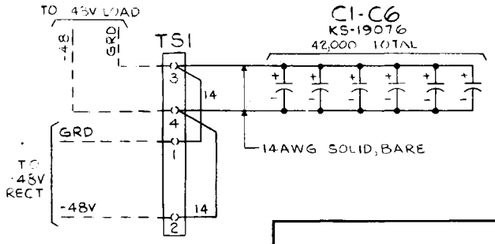


FIG. 4 (MFR DISC)
LOAD CAPACITOR PANEL



SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

SD-81581-01-3

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DWG SIZE 6S

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16

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SD-81581-01-3

KIMBERLY RUWE

FIG. 7
RING AND TONE CIRCUIT
(SEE TABLE A)

CABLE AND JONES TYPE 33 TERMINAL PLUG FURNISHED AS PART OF KS-15985,L1 MACHINE

RING MACHINE AND INTERRUPTER KS-15985,L1

P1 — J1 (SEE NOTE 206)

PULSE NO.		
120 IPM	1	a, b, c, d, e, f
60 IPM	2	a, f
30 IPM	3	a, b
15 IPM	4	a
15 IPM RING	5	a, b
7 1/2 IPM	6	a, b
7 1/2 IPM	7	a, b
7 1/2 IPM	8	a, b
7 1/2 IPM	9	a, b

J1 → (LT1-120IPM)FT
J1 → (120IPM)FF1
J1 → (120IPM)FF2
J1 → (LT1-60IPM)BT
J1 → (60IPM)F1
J1 → (60IPM)F2
J1 → AUD 1
J1 → AUD 2
J1 → (30IPM)SF1
J1 → (30IPM)SF2
J1 → (15IPM) SU
J1 → RING GRD
J1 → AC-DC AUD
J1 → MR RI BRI
J1 → TM0
J1 → TM1
J1 → TM2
J1 → TM3
J1 → PU0
J1 → PU1
J1 → PU2
J1 → PU3
J1 → (LT2) DT

S TT 404C TONE GEN SEE NOTE 209

S J3 KS-14528, L2

TO -48V SUPPLY CABINET 2, SLIDE 3
[TTA]-48 — A
GRD TTA — C
[TTB]-48 — H
GRD TTB — E

TO ORIGINATING REGISTER CKT
[TT1] DT — B, F, D
SEE NOTE 210

TO LOCAL CONVERTER FOR TOUCH TONE
[TT2] DT — J
SEE NOTE 211

20 N ALT

HI V TONE

LO V TONE

HUBBELL TWIST LOCK CONN CAT. NO. 7485 AND CORD FURNISHED BY MFR SEE NOTE 110

P4 — BK, GRD, W — AC MOTOR

TO FIG. 1

P5 — BK, GRD, W

102B FREQ GEN (X) SEE NOTE 105 — AUD 1, AUD 2

AR 5110

C1 SPRAGUE CAT NO. 121D106-X0100Q1 10

F1 70B 2 AMP

TS1 — GRD BUS

20

14

SEE NOTE 203

P

TO FIG. 5: R, RI, RB, GRD

TO FIG. 2: -48V1, GRD

FIG. 9
LOAD CAPACITOR CIRCUIT

TO FIG. 5 OR -48V LOAD — -48V, GRD

R C1-C6 KS-19319 42,000 TOTAL

C1.1-C1.3 Q SPRAGUE D39159, K KS-20133,L9 48,000 TOTAL

TO FIG. 3 OR -48V RECT — GRD, -48V

BUS BAR

FIG. 10
LOAD CAPACITOR CIRCUIT

TO FIG. 2 (-48V1) — GRD, -48V1

C1: R KS-19319 7000; Q SPRAGUE D39159 16,000; K KS-20133,L9 16,000

SEE NOTE 203

TO FIG. 8

FIG. 5A (MFR DISC)

LV1 — EBM8

TO FIG. 5 — A EMB6, B EBM4, C L U 2500, D, E

FIG. 5B
RINGING BATTERY FUSE ALARM

TO FIG. 5 — RMFA, BM12, BM11, RB, 2U, 1U 2450, LV1, A, B, E, BM2, BM1, C, 2L, 1L 2450, L R1 KS-13490,L1 1200, L C2 KS-16390,L8 40, D

DRAWING ISSUE

1	J.G.T.	F.C.
2A	J.G.T.	F.C.
3A	J.G.T.	F.C.
4A	AEG AEZ	F.C.
5A	FJD JJW JJS	F.C.
6A	FJD KJB JJS	F.C. WH
7B	KJW JJS	F.C. WH
8B	RAD JJS	F.C. WH
9D	JWH JJS	F.C. WH
10B	JWH JJS	F.C. WH
11D	LKK KJB	F.C.
12B	LKK KJB	F.C. WH
13B	AML	F.C. F.C. WH
14B	CWH GJW	F.C. WH
15B		WH
16D		WH

16

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

SD-81581-01-4

BELL TELEPHONE LABORATORIES INCORPORATED — DWG SIZE 6S — PRINTED IN U.S.A.

TO 608 TYPE PBX SWITCHBOARD RINGING AND TONE CIRCUITS (SEE NOTE 305)

(SEE NOTE 207) J2 P2

FT(LTI-120IPM) 1
FF1(120 IPM) 3
FF2(120IPM) 5
BT(LTI-60IPM) 9
F1(60IPM) 10
F2(60IPM) 11
AUD 1 (X) 7
AUD 2 (X) 8
SF1(30IPM) 12
SF2(30IPM) 13
SU(15IPM) 14
RING GRD 15
AC-DC AUD 16
MR R1 BR1 17
TMO 19
TM1 20
TM2 21
TM3 22
PU0 23
PU1 24
PU2 25
PU3 26
DT(LT2) (T) 30

TO FIG. 7

TO 757 A PBX RINGING AND TONE CIRCUITS

20, SEE NOTE 203

SEE NOTE 205

FIG E
(ALARM LEADS FOR POWER CABINET (SEE NOTES 107 AND 208)

GG KS-1963,L1

MJ 1
MJ1 2
BT 3
4
5
6
7
8
9
RMFA 10
50

TO FIG 5

TO PBX ALARM CIRCUIT

SEE NOTE 208

SEE NOTE 205

FIG. 8
TERMINAL BLOCKS LOCATED IN CROWN OF POWER CABINET (SEE NOTE 207)

DSS 1 2
±10VAC GRD (A)
±10VAC GRD (B)
TO DSS CONSOLE CIRCUITS

SL/DTT 3 4
±10VAC GRD (A)
±10VAC GRD (B)
TO SL OR DTT CONSOLE CIRCUITS (SEE NOTE 106)

TS1 10VAC

TO GRD BUS A TS4 -48V

14 SEE NOTE 203

A B 0 1 2 3 4

14

GRD BUS

SEE NOTE 203

SEE NOTES 202, 205, AND 303

-48V2 1 2
-48 GRD (A)
-48 GRD (B)
TO -48V2 PBX LOAD

-48V1 3 4
-48 GRD (A)
-48 GRD (B)
TO -48V1 PBX LOAD

+48V 5 6
+48 GRD (A)
+48 GRD (B)
TO +48V PBX LOAD

TS2 48V

A B C 1 2 3 4 5 6

GRD BUS

SEE NOTE 203

P P P P P P

12 14

L1 L2 L3 L4

TO FIG. 5

-48V2 GRD(-48V2) -48V1 GRD(-48V1) +48 GRD(+48)

TO FIG. 5

FIG. C (MFR DISC)
ALARM LEADS FOR POWER CABINET (SEE NOTES 107 AND 208)

MJ MJ1 BT RMFA

1 2 3 4 5 6 7 8 9 10

MJ MJ1 RMFA

TO FIG 5

TO PBX ALARM CIRCUIT

SEE NOTE 203

TS3

SEE NOTE 205

FIG. D
ALARM LEADS FOR PBX CABINET (SEE NOTE 107)

MJ MJ1 RMFA

1 2 3

MJ MJ1 RMFA

TO FIG 5

TO PBX ALARM CIRCUIT

SEE NOTE 203

TS6

SEE NOTE 205

DRAWING ISSUE

1	J&T	FC
2A	J&T	FC
3A	J&T	FC
4A	AEG	AEZ FC
5A	FJD	VJS FC
6A	FJD	FJB FC
7B	KJW	VJS FC
8B	RAD	VJS FC
9D	JWM	VJS FC
10B	JWM	VJS FC
11D	LKK	FJB FC
12B	LKK	FJB FC
13B	AWL	FC FC
14B	CWM	FJV FC
15B		
16D		

16

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

SD-81581-01-5

BELL TELEPHONE LABORATORIES INCORPORATED

DWG SIZE 6S

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SD-81581-01-5

RUWE

SD-81581-01

CIRCUIT REQUIREMENTS

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

APPARATUS DESIG	APPARATUS CODE	APPARATUS OPT	APPARATUS FIG.		MECH REQT BSP FIG.	MECH REQT CONT PRESS.	MECH REQT ARM. TRVL.	CIRCUIT PREPARATION BLOCK OR INSULATE	CIRCUIT PREPARATION TEST CLIP DATA CONN BAT.	CIRCUIT PREPARATION TEST CLIP DATA CONN GRD	TEST SET PREP	SEE TEST NOTE	DIRECT CURRENT FLOW REQT TEST WDG	DIRECT CURRENT FLOW REQT TEST FOR	DIRECT CURRENT FLOW REQT AFTER SOAK MA.	DIRECT CURRENT FLOW REQT TEST MA.	DIRECT CURRENT FLOW REQT READJ MA.	REMARKS
RELAYS																		
LV	J51		5		3		23					9		0		AC	AC	
									1M(LV)	2M(LV)	B/G	9		NO		3.9	4.1	
									1M(LV)	2M(LV)	B/G	9		0		5.1	4.3	
LV1	AF67		5A		207					U(LV1)	GRD	1/2		0		7.1	6.8	
LV1	1/2AK23		5B		3			1(LV)		1L(LV1)	GRD	1		0		7.8	7.4	MOUNTED WITH (RMFA)
NAC	*		5						P1	P2	AC/V	6		0			9.7V	60 CYCLE
NAC1	AF67		5		207					U(NAC1)	GRD	1/3		0		7.1	6.8	
NV	AF67		5		207					U(NV)	GRD	4/7		0		7.1	6.8	
NV1	AF67		5		207					U(NV1)	GRD	1		0		7.1	6.8	
NV2	AF67		5		207					U(NV2)	GRD	5		0		7.1	6.8	
RMFA	1/2AK23		5B		3				2U(RMFA)		B/V			0		7.8	7.4	MOUNTED WITH (LV1)

DRAWING ISSUE

1	JGT FC.
2A	JGT FC.
3A	JGT LHE F.C.
4A	AEG AEZ FC.
5A	FJD JJ73 FC.
6A	FJD FC.
7B	KJW JJ73 F.C.
8B	RAD JJ73 FC.
9D	JWW FC.
10B	JWW FC.
11D	LKK FC.
12B	LKK FC.
13B	AWL F.C.
14B	CWW GJC FC.
15B	
16D	

*ALLIED CONTROL COMPANY, INC
"AS" RELAY 9.7V, COIL 29

TEST NOTES:

1. BEFORE MAKING TEST, -48V1 RECTIFIER SHOULD BE OPERATING AND -48V1 CIRCUIT BREAKER (CB3) IN "ON" POSITION.
2. BEFORE MAKING TEST, BLOCK (LV) RELAY IN OPERATED POSITION.
3. BEFORE MAKING TEST, BLOCK (NAC) RELAY IN OPERATED POSITION.
4. BEFORE MAKING TEST, +48V RECTIFIER SHOULD BE OPERATING.
5. BEFORE MAKING TEST, -48V2 RECTIFIER SHOULD BE OPERATING AND -48V2 CIRCUIT BREAKER (CB4) IN "ON" POSITION.
6. BEFORE MAKING TEST, 10VAC CIRCUIT BREAKER (CB1) SHOULD BE IN "OFF" POSITION.
7. BEFORE MAKING TEST, +48V CIRCUIT BREAKER (CB2) SHOULD BE IN "ON" POSITION.
8. TEST AND READJUST THE(LV)RELAY FOR OPERATION ON AC IN CIRCUIT. TEST FOR RELEASE BY SHORT CIRCUITING THE WINDING.
9. DISCONNECT 1M LEAD TO RELAY.

SLIDE NO. 1 POWER SUPPLY FOR 757A PBX

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DRAWING ISSUE

1	JGT FC.
2A	JGT FC.
3A	JGT FC.
4A	AEG AEZ FC
5A	FJD JJ73 FC.
6A	FJD FJB FC. WH
7B	KJW JJ73 F.C. WH
8B	RAD JJ73 FC WH
9D	JWW JJ73 FC. WH
10B	JWW JJ73 FC. WH
11D	LKK FJB FC
12B	LKK FJB F.C. WH
13B	AWL F.C. F.C. WH
14B	CWW GJC FC WH
15B	WH
16D	WH

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