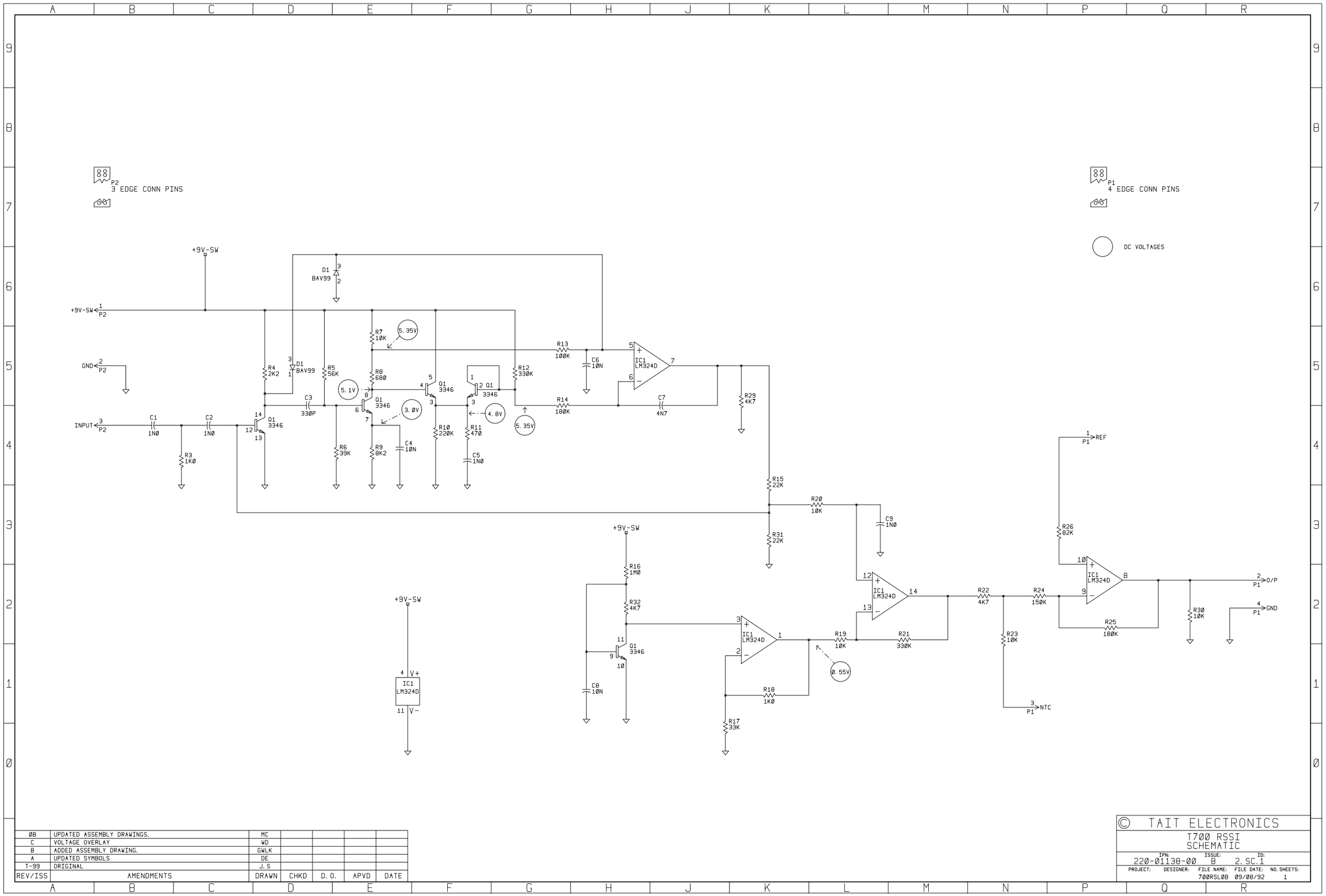


REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
0B	UPDATED ASSEMBLY DRAWINGS.	MC				
C	VOLTAGE OVERLAY	WD				
B	ADDED ASSEMBLY DRAWING.	GWLK				
A	UPDATED SYMBOLS	DE				
T-99	ORIGINAL	J. S				

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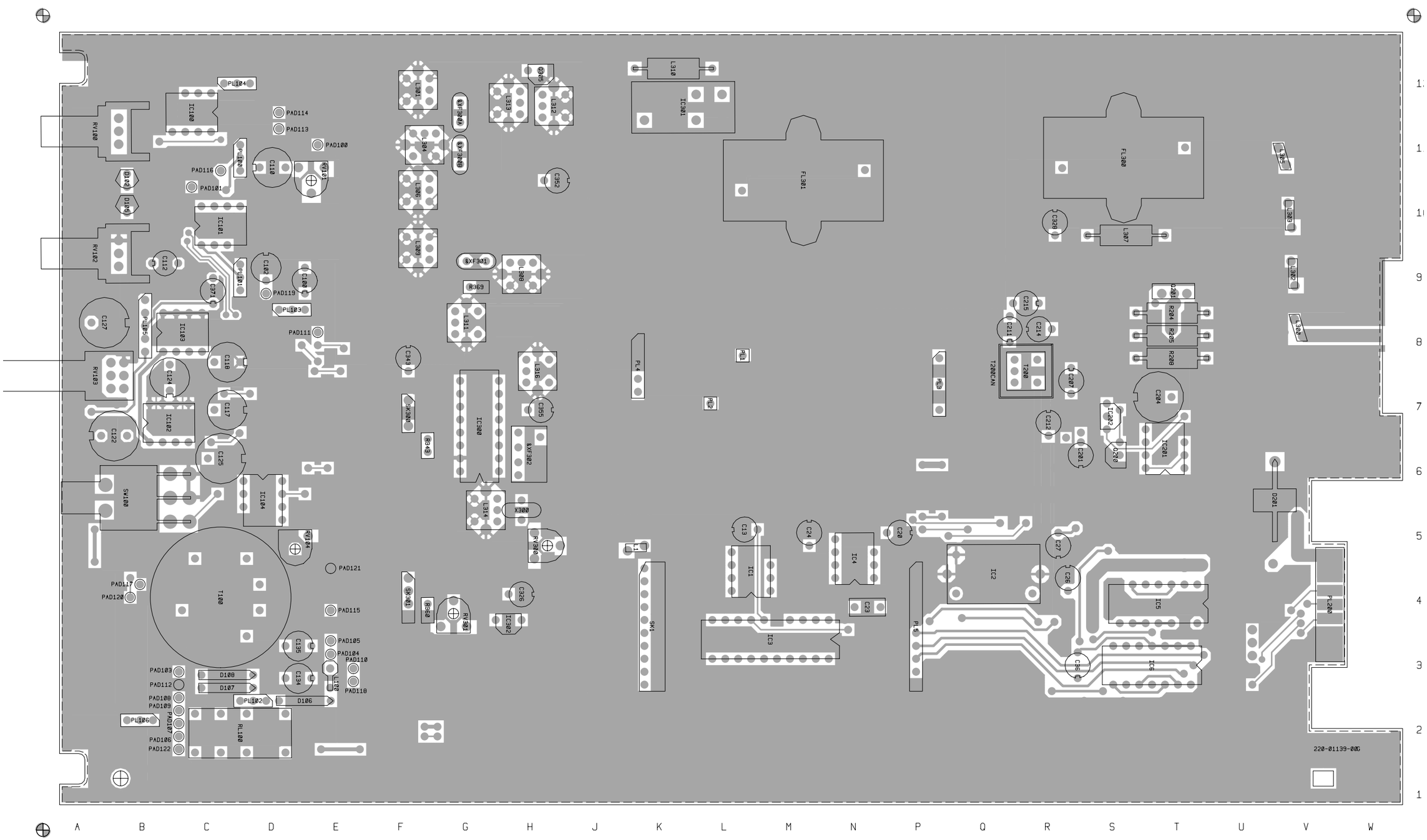
T700 RSSI SCHEMATIC

IPN:	ISSUE:	ID:
220-01138-00	B	2. SC. 1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		700RSL0B	09/08/92	1

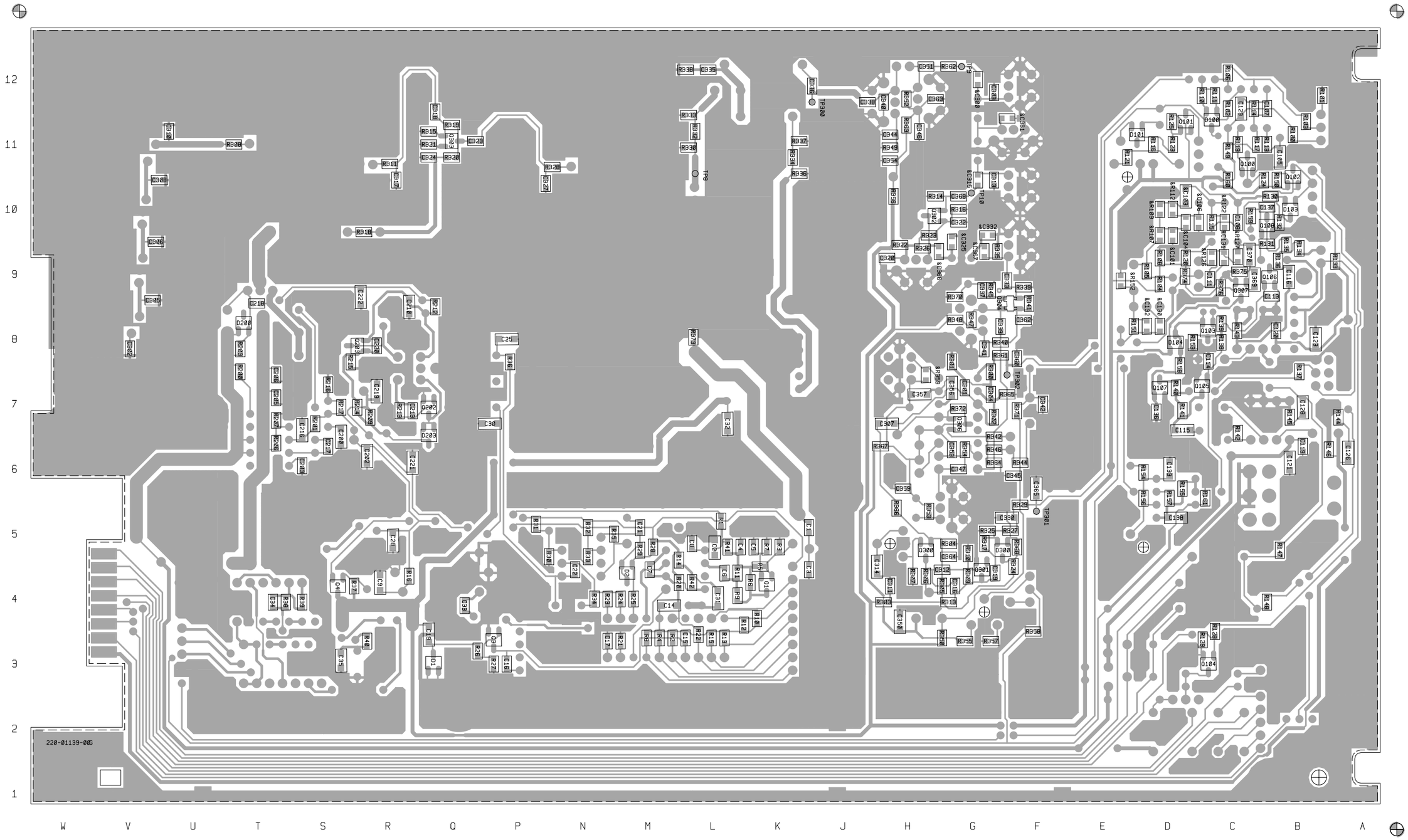
Copyright TEL

Copyright TEL



T855 PCB Layout
Top Side
220-01139-00

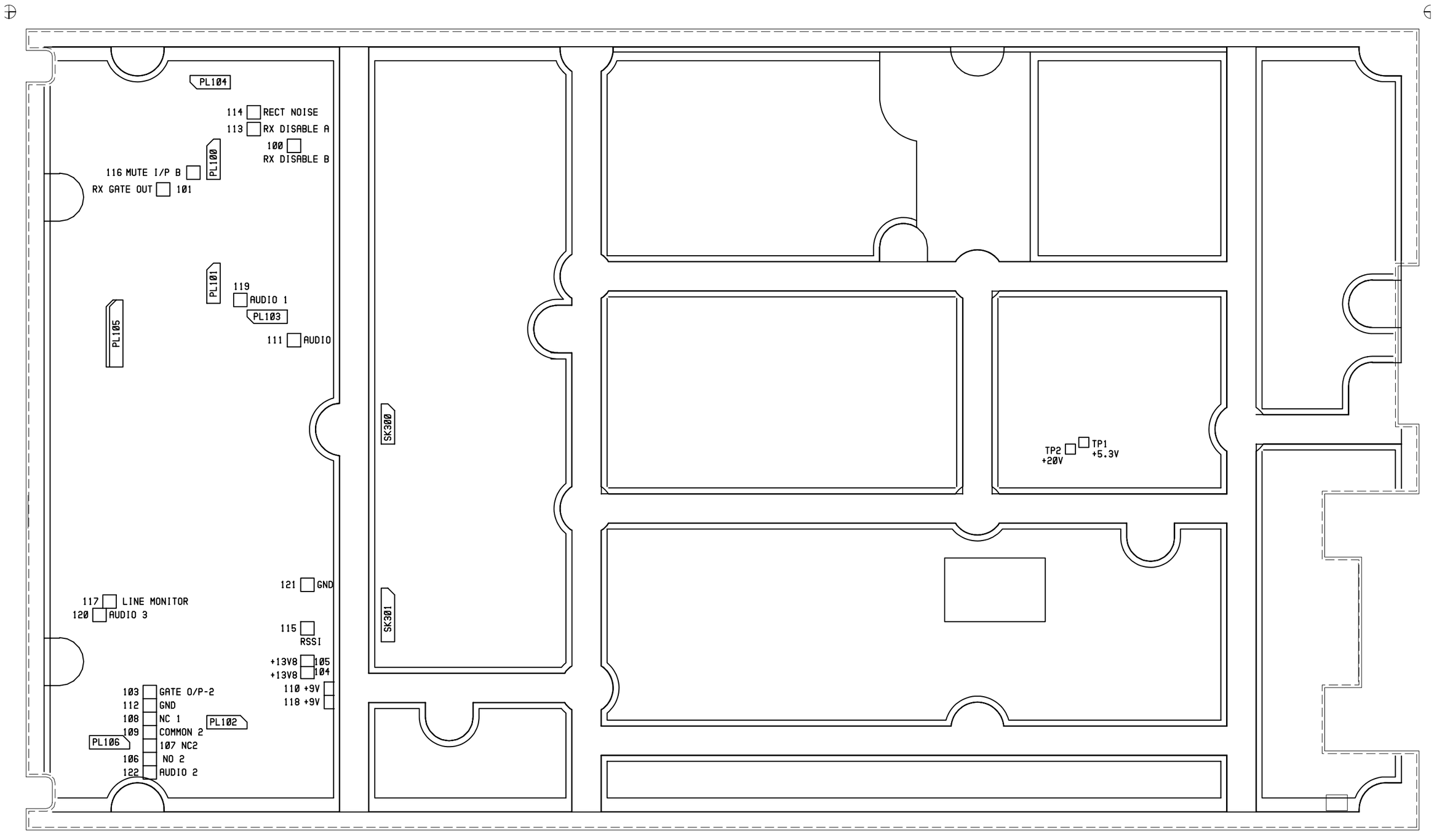
Copyright TEL



T855 PCB Layout
Bottom Side
220-01139-00

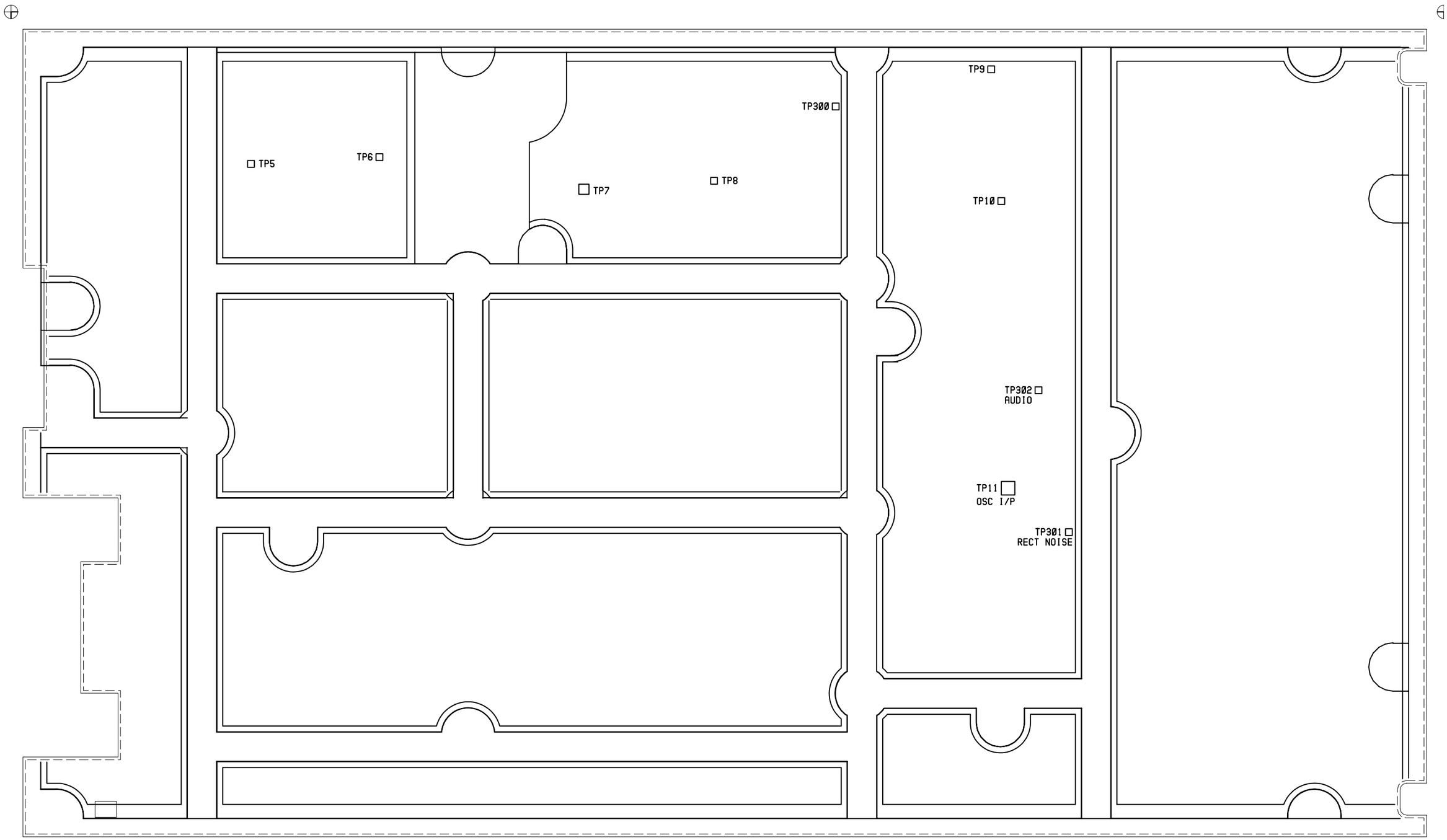
30/11/96

Copyright TEL



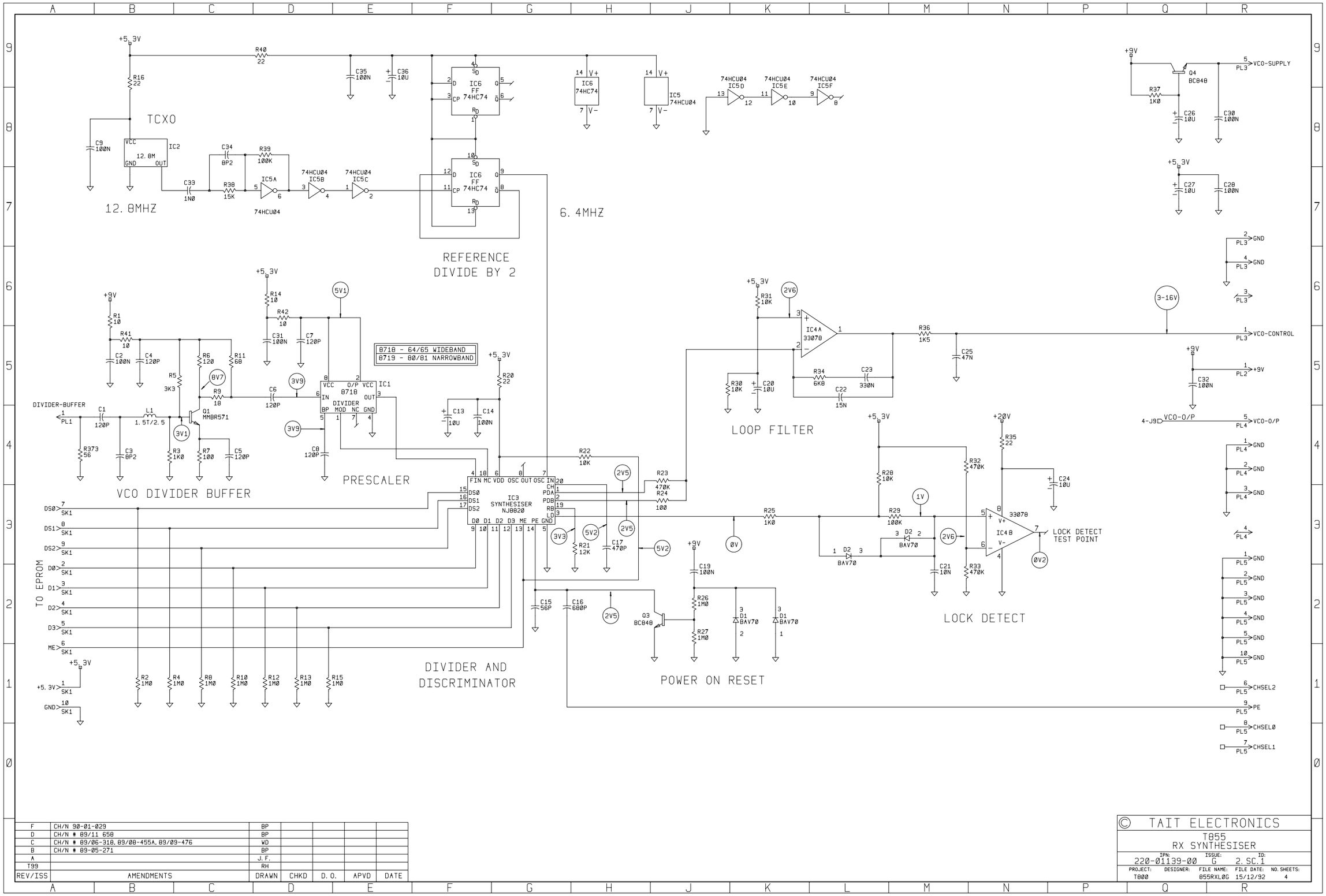
T855 Test Points & Options
Top Side
220-01139-00

Copyright TEL



T855 Test Points & Options
Bottom Side
220-01139-00

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
F	CH/N 90-01-029	BP				
D	CH/N # 89/11 650	BP				
C	CH/N # 89/06-318.89/08-455A.89/09-476	WD				
B	CH/N # 89-05-271	BP				
A		J. F.				
T99		RH				

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T855
RX SYNTHESISER

IPN:	ISSUE:	ID:
220-01139-00	G	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		855RXL0G	15/12/92	4

Copyright TEL

CTCSS OPTION	PINS TO CONNECT. PL105	PL106
STD. NON CTCSS	2-3	2-3
CTCSS+SPEECH TO LINE OUTPUT	1-2	2-3
INTERNAL CTCSS	4-5	2-3
EXTERNAL CTCSS	4-5	1-2

VARIANT	&C101	&C103	&C104	&C106	&C130	&C131	&C132	&R107	&R109	&R112	&R122	&R126	&R127	&R152
X5.X7	4N7S	47NT	2P2S	47PS	4N7S	1NS	10NS	10KS	15KS	39KS	4K7S	47KS	100KS	3K3S
X0.X2	4N7S	47NT	2P2S	47PS	10NS	1NS	4N7S	22KS	15KS	39KS	0K2S	47KS	100KS	4K7S
X4	-	470PS	-	220PS	-	2N2S	4N7S	22KS	0S	22KS	3K9S	27KS	330KS	4K7S

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
F	CH/N 90-01-029	BP				
D	CH/N # 89/11 658	BP				
C	CH/N # 89/06-318, 89/08-455A, 89/09-476	WD				
B	CH/N # 89-05-271	BP				
A		J.F.				
T99		RH				

© TAIT ELECTRONICS

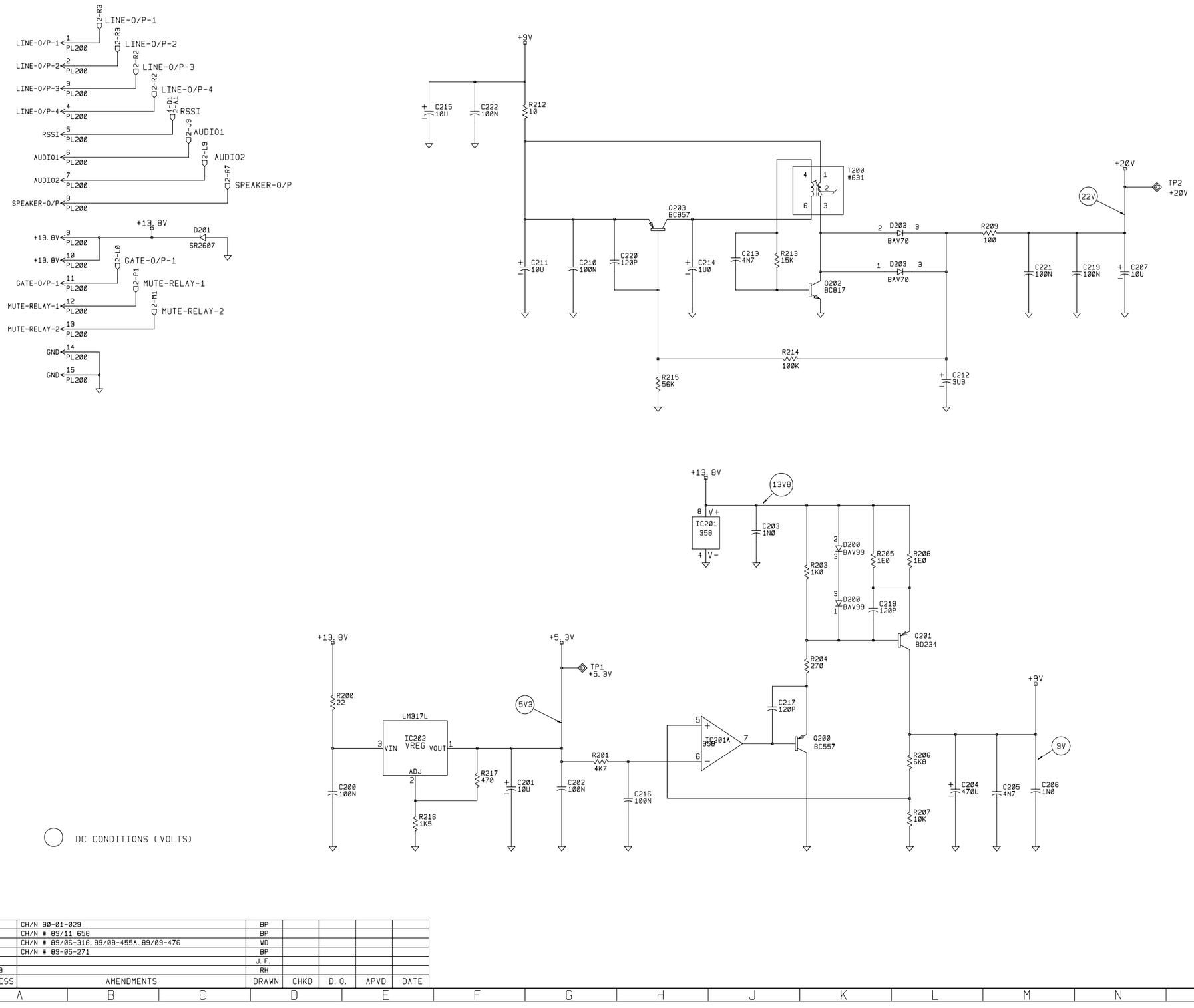
T855
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01139-00	G	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		B55RXL0G	15/12/92	4

Sheet 2 T855 Audio Processor - 220-01139-00

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
F	CH/N 90-01-029	BP				
D	CH/N # 89/11 658	BP				
C	CH/N # 89/06-318, 89/08-455A, 89/09-476	WD				
B	CH/N # 89-05-271	BP				
A		J. F.				
T99		RH				

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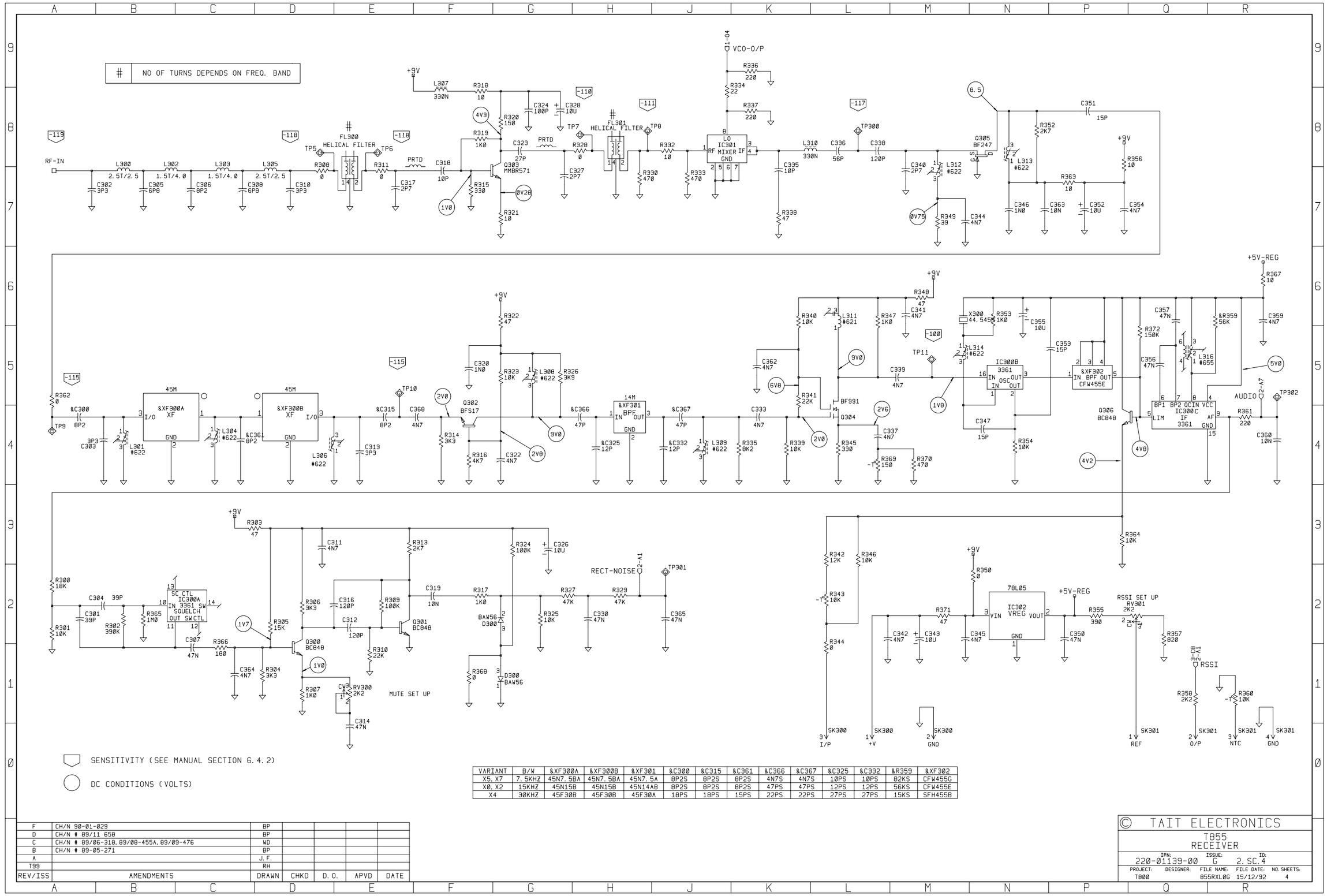
T855
REGULATOR

IPN:	ISSUE:	ID:
220-01139-00	G	2. SC. 3

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		855RXL0G	15/12/92	4

Sheet 3 T855 Regulator
220-01139-00

Copyright TEL



VARIANT	B/W	&XF300A	&XF300B	&XF301	&C300	&C315	&C361	&C366	&C367	&C325	&C332	&R359	&XF302
X5,X7	7.5KHZ	45N7.5BA	45N7.5BA	45N7.5A	8P2S	8P2S	8P2S	4N7S	4N7S	10PS	10PS	82KS	CFW455G
X8,X2	15KHZ	45N15B	45N15B	45N14AB	8P2S	8P2S	8P2S	47PS	47PS	12PS	12PS	56KS	CFW455E
X4	30KHZ	45F30B	45F30B	45F30A	18PS	18PS	15PS	22PS	22PS	27PS	27PS	15KS	SFH455B

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
F	CH/N 90-01-029	BP				
D	CH/N # 89/11 658	BP				
C	CH/N # 89/06-318, 89/08-455A, 89/09-476	WD				
B	CH/N # 89-05-271	BP				
A		J.F.				
T99		RH				

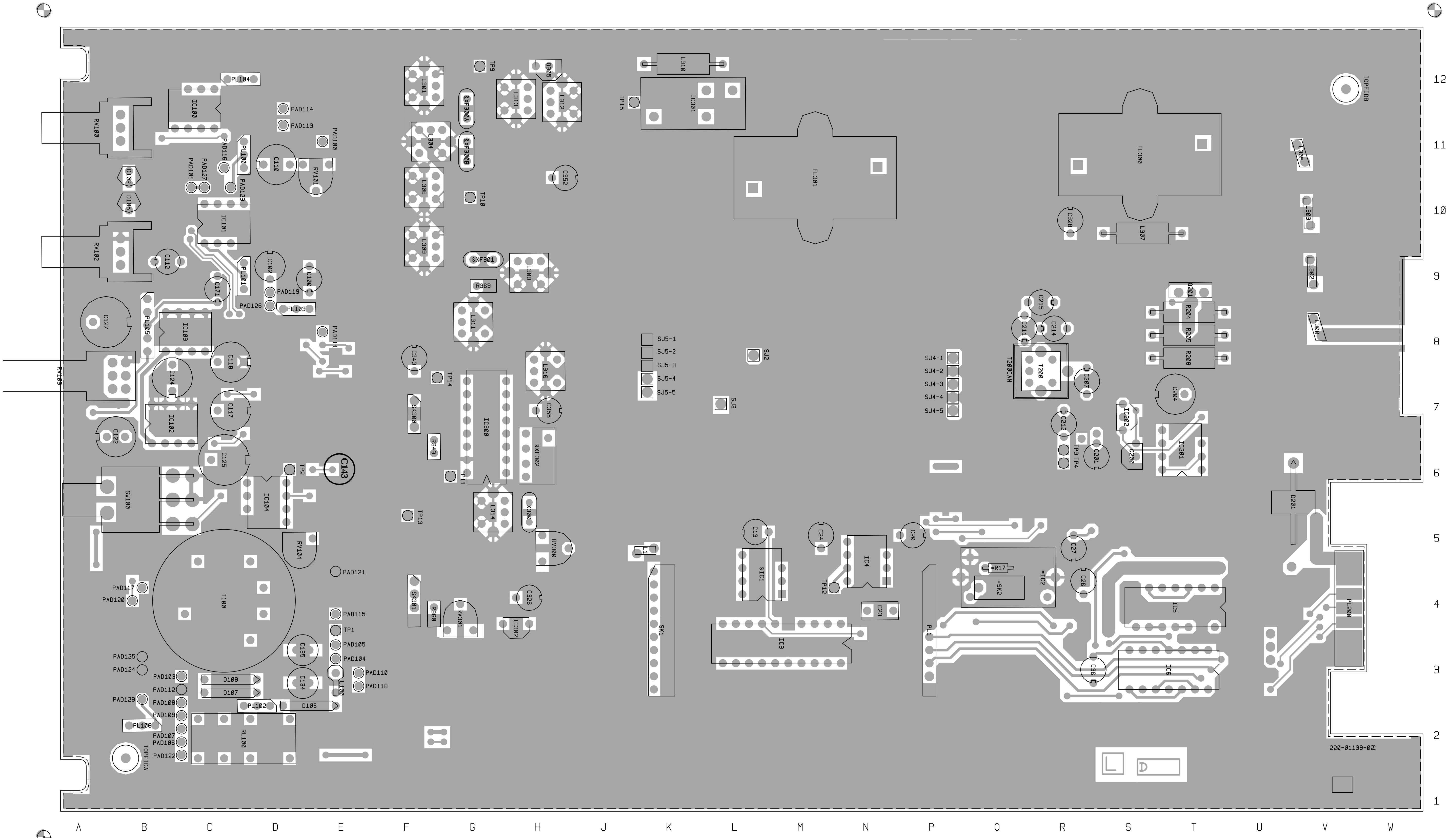
© TAIT ELECTRONICS

T855
RECEIVER

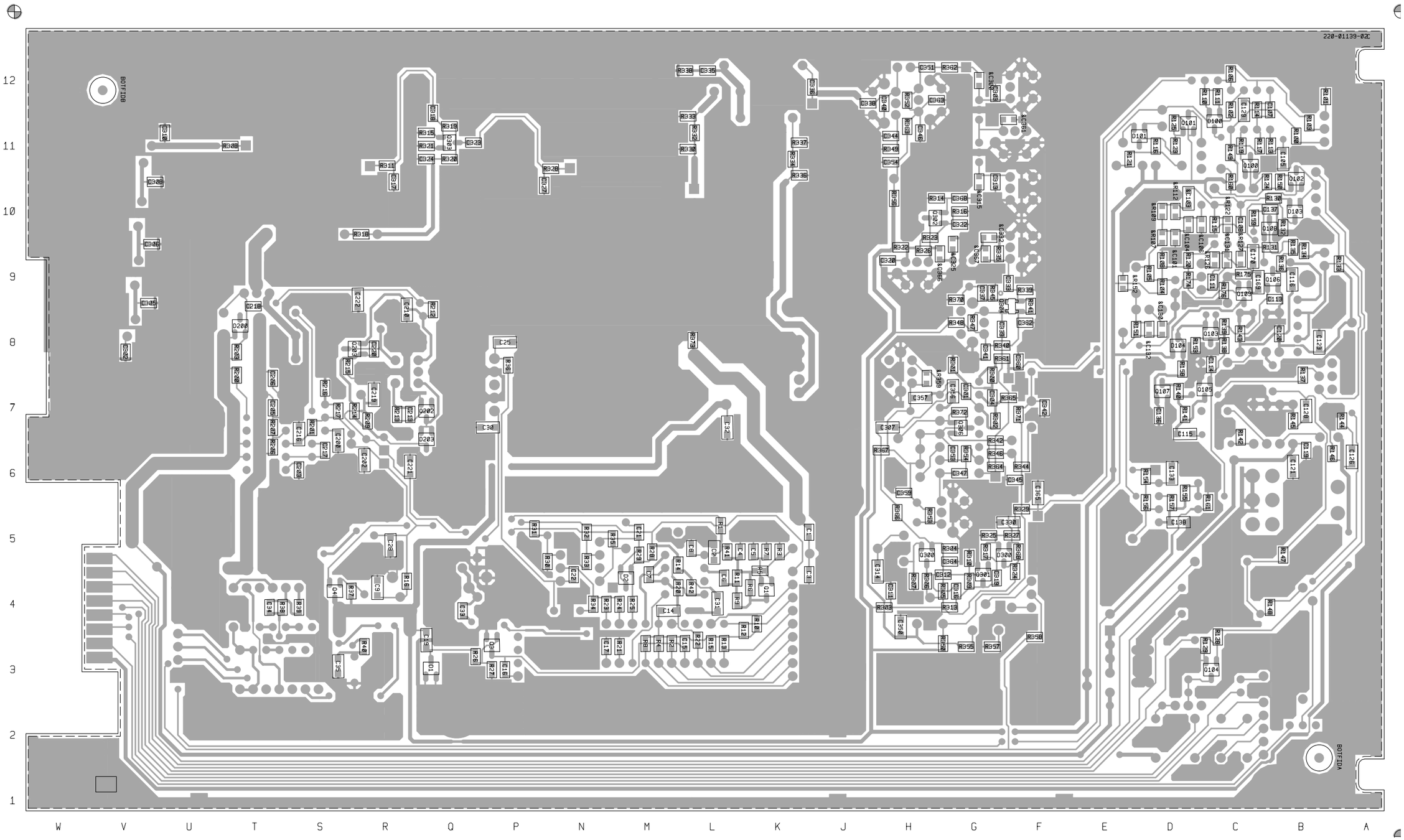
IPN:	ISSUE:	ID:
220-01139-00	G 2.SC 4	

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		855RXL0G	15/12/92	4

Copyright TEL



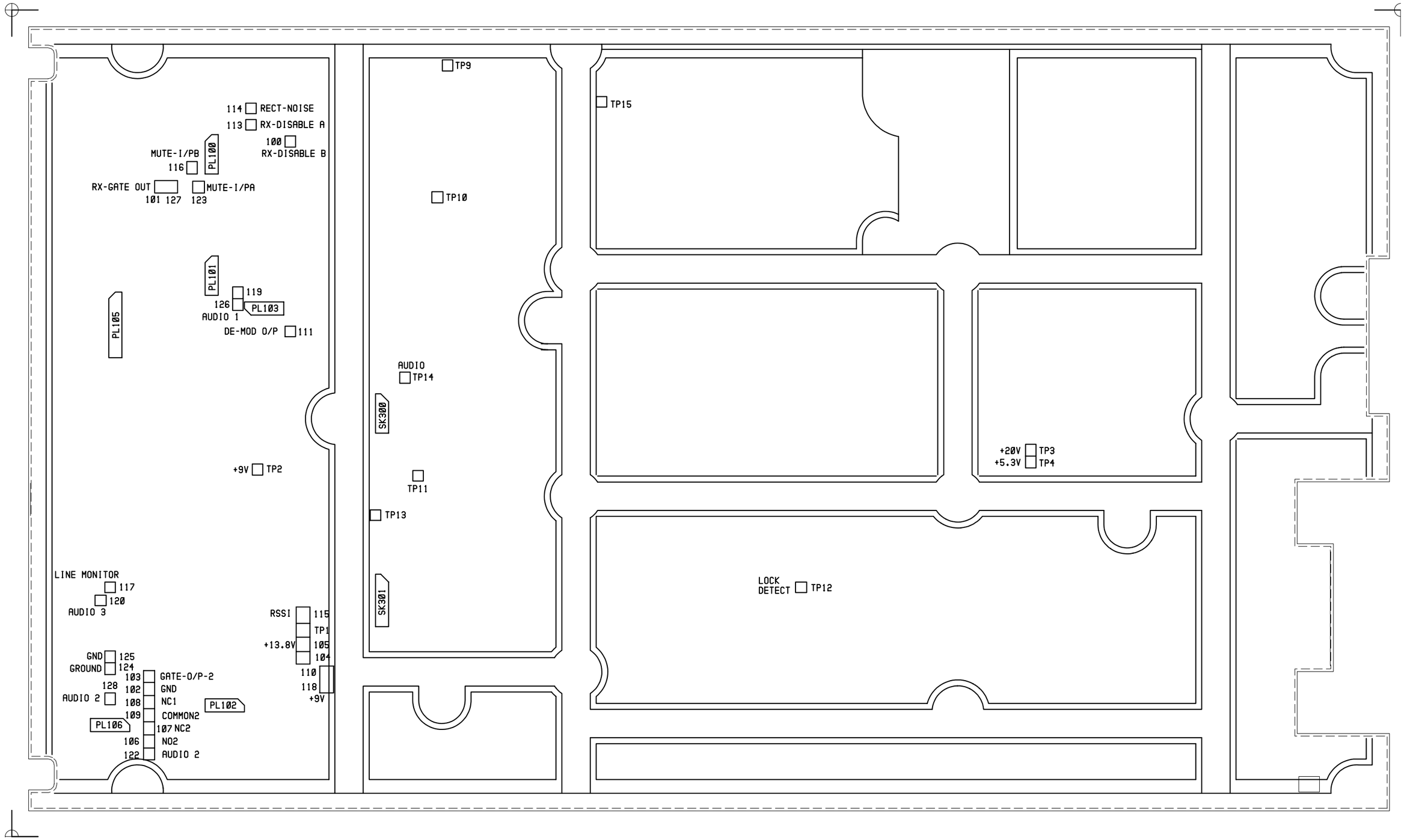
T855 PCB Layout
Top Side
220-01139-02



T855 PCB Layout
Bottom Side
220-01139-02

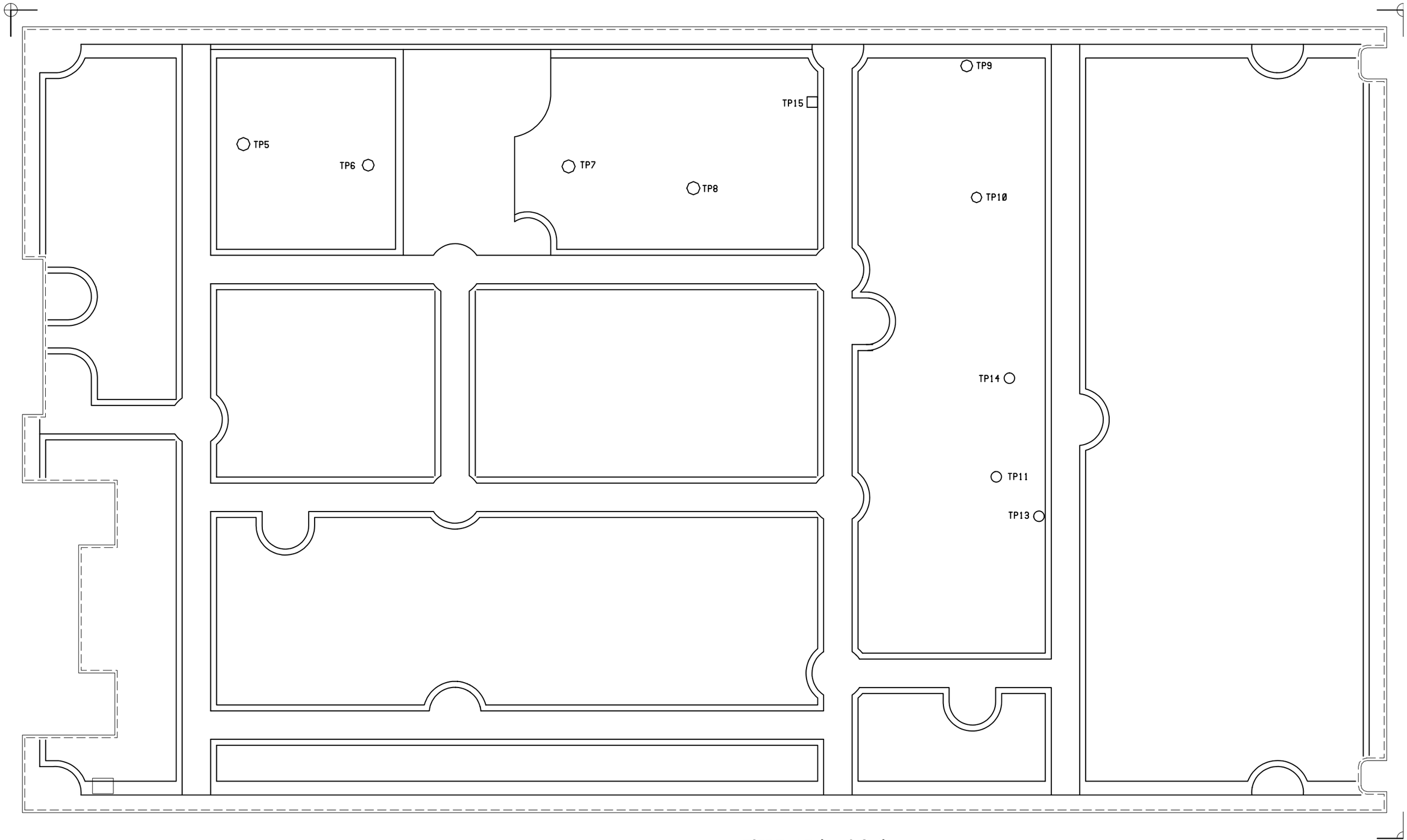
30/11/96

Copyright TEL



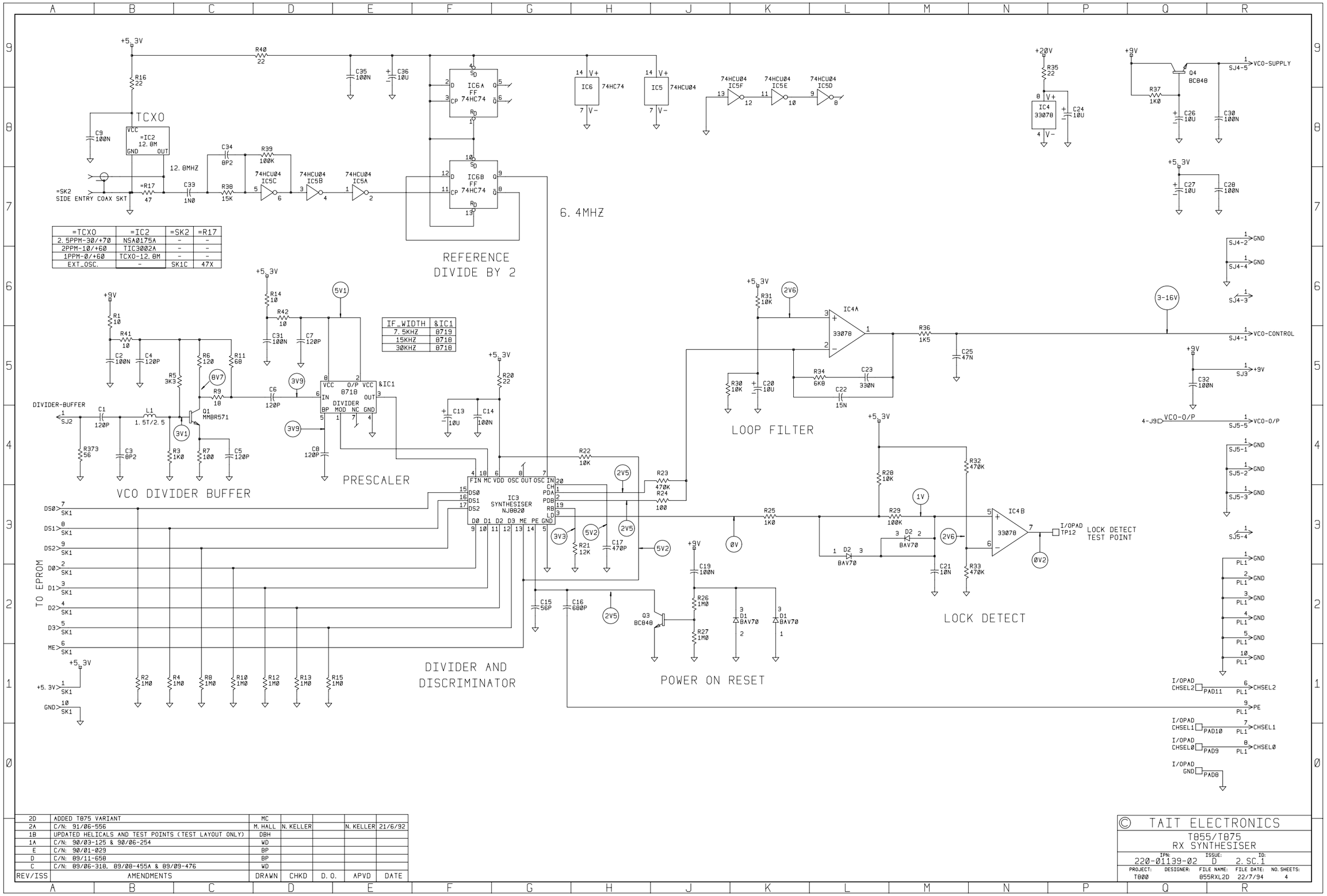
T855 Test Points & Options
Top Side
220-01139-02

Copyright TEL



T855 Test Points & Options
Bottom Side
220-01139-02

Copyright TEL



=TCXO	=IC2	=SK2	=R17
2.5PPM-30/+70	NSA0175A	-	-
2PPM-10/+60	TIC3002A	-	-
1PPM-0/+60	TCXO-12.8M	-	-
EXT.OSC.	-	SK1C	47X

IF_WIDTH	&IC1
7.5KHZ	8719
15KHZ	8718
30KHZ	8718

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
2D	ADDED T875 VARIANT	MC				
2A	C/N: 91/06-556	M.HALL	N.KELLER		N.KELLER	21/6/92
1B	UPDATED HELICALS AND TEST POINTS (TEST LAYOUT ONLY)	DBH				
1A	C/N: 90/03-125 & 90/06-254	WD				
E	C/N: 90/01-029	BP				
D	C/N: 89/11-658	BP				
C	C/N: 89/06-318, 89/08-455A & 89/09-476	WD				

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T855/T875
RX SYNTHESISER

IPN: 220-01139-02 ISSUE: D ID: 2.SC.1

PROJECT: T800 DESIGNER: FILE NAME: 855RXL2D FILE DATE: 22/7/94 NO. SHEETS: 4

Copyright TEL

CTCSS OPTION	PINS TO CONNECT. PL105	PL106
STD. NON CTCSS	2-3	2-3
CTCSS+SPEECH TO LINE OUTPUT	1-2	2-3
INTERNAL CTCSS	4-5	2-3
EXTERNAL CTCSS	4-5	1-2

IF_WIDTH	&C103	&C104	&C106	&C130	&C131	&C132	&R107	&R109	&R112	&R122	&R126	&R127	&R152
7.5KHZ	47NT	2P2S	47PS	4N7S	1N0S	10NS	18KS	15KS	39KS	4K7S	47KS	100KS	3K3S
15KHZ	47NT	2P2S	47PS	10NS	1N0S	4N7S	22KS	15KS	39KS	8K2S	47KS	100KS	4K7S
30KHZ	470PS	-	220PS	-	2N2S	4N7S	22KS	0S	22KS	3K9S	27KS	330KS	4K7S

&C101
4N7S
4N7S
-

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2D	ADDED T875 VARIANT	MC				
2A	C/N: 91/06-556	M. HALL	N. KELLER		N. KELLER	21/6/92
1B	UPDATED HELICALS AND TEST POINTS (TEST LAYOUT ONLY)	DBH				
1A	C/N: 90/03-125 & 90/06-254	WD				
E	C/N: 90/01-029	BP				
D	C/N: 89/11-658	BP				
C	C/N: 89/06-318. 89/08-455A & 89/09-476	WD				

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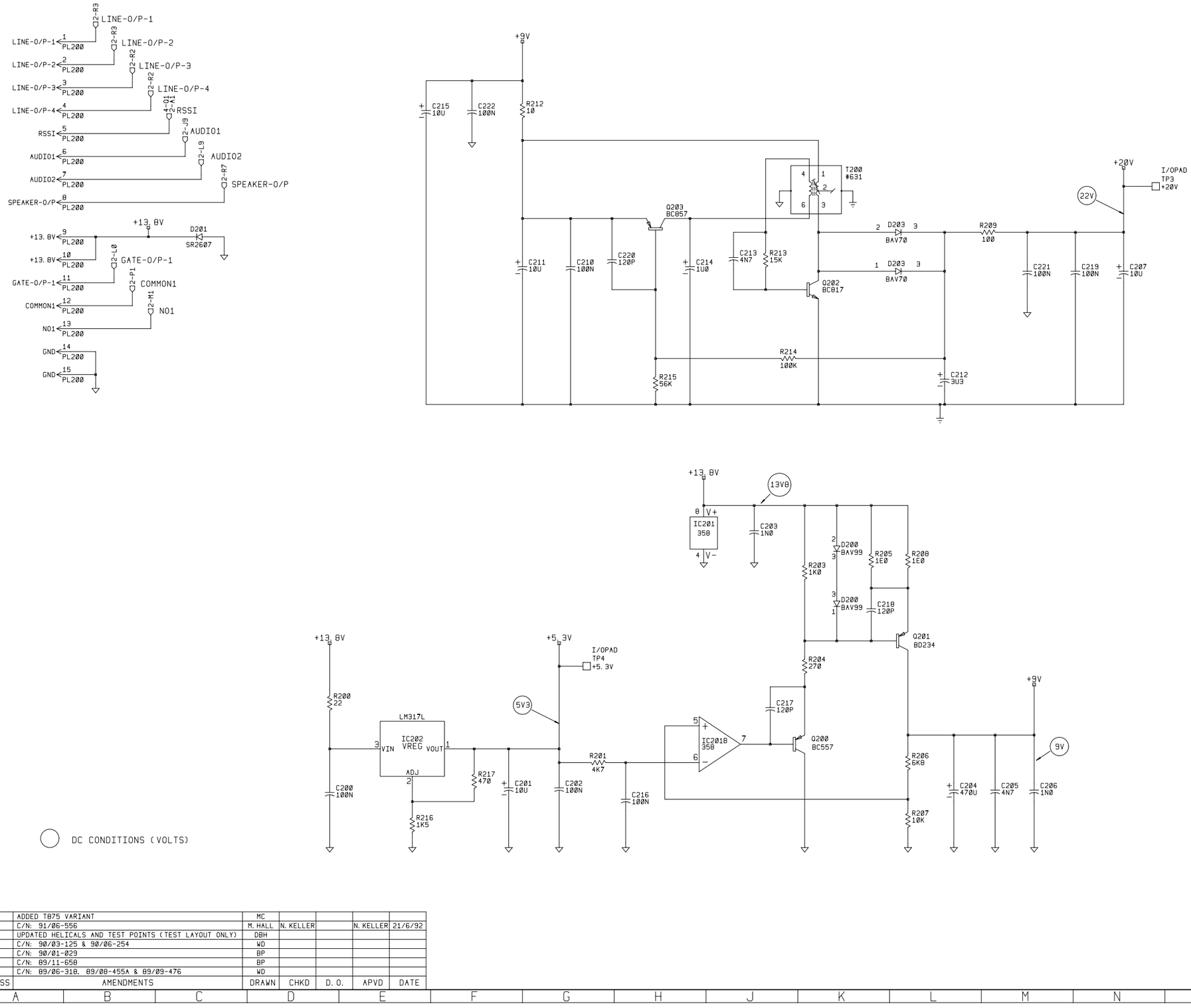
T855/T875
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01139-02	D	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		855RXL2D	22/7/94	4

Sheet 2 T855 Audio Processor - 220-01139-02

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2D	ADDED T875 VARIANT	MC				
2A	C/N: 91/06-556	M. HALL	N. KELLER		N. KELLER	21/6/92
1B	UPDATED HELICALS AND TEST POINTS (TEST LAYOUT ONLY)	DBH				
1A	C/N: 90/03-125 & 90/06-254	WD				
E	C/N: 90/01-029	BP				
D	C/N: 89/11-658	BP				
C	C/N: 89/06-318, 89/08-455A & 89/09-476	WD				

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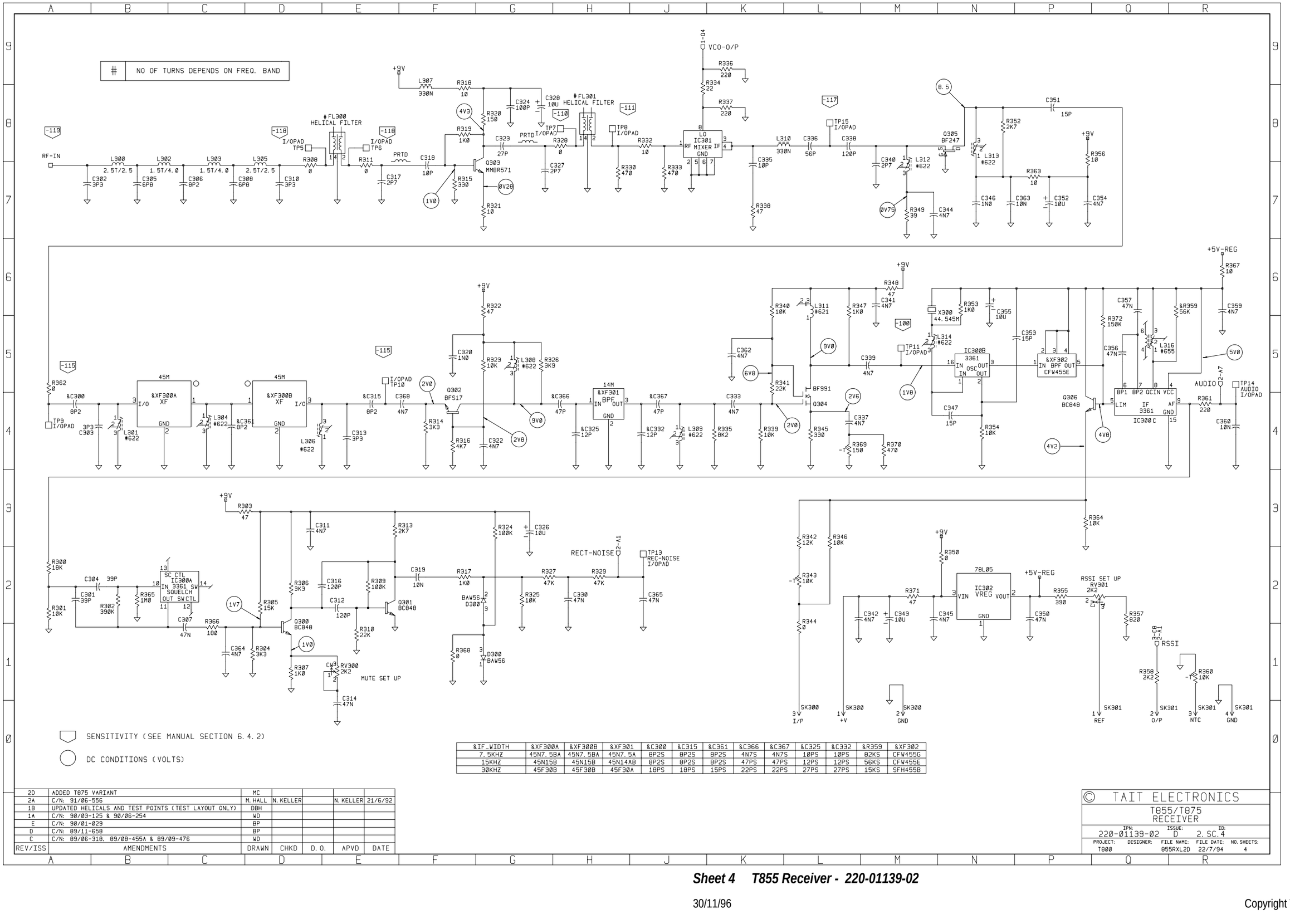
T855/T875
REGULATOR

IPN:	ISSUE:	ID:
220-01139-02	D	2.SC.3

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		B55RXL2D	22/7/94	4

Sheet 3 T855 Regulator
220-01139-02

Copyright TEL



&IF_WIDTH	&XF300A	&XF300B	&XF301	&C300	&C315	&C361	&C366	&C367	&C325	&C332	&R359	&XF302
7.5KHZ	45N7.5BA	45N7.5BA	45N7.5A	8P2S	8P2S	8P2S	4N7S	4N7S	10PS	10PS	82KS	CFW455G
15KHZ	45N15B	45N15B	45N14AB	8P2S	8P2S	8P2S	47PS	47PS	12PS	12PS	56KS	CFW455E
30KHZ	45F30B	45F30B	45F30A	18PS	18PS	15PS	22PS	22PS	27PS	27PS	15KS	SFH455B

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2D	ADDED T875 VARIANT	MC				
2A	C/N: 91/06-556	M. HALL	N. KELLER		N. KELLER	21/6/92
1B	UPDATED HELICALS AND TEST POINTS (TEST LAYOUT ONLY)	DBH				
1A	C/N: 90/03-125 & 90/06-254	WD				
E	C/N: 90/01-029	BP				
D	C/N: 89/11-658	BP				
C	C/N: 89/06-318, 89/08-455A & 89/09-476	WD				

© TAIT ELECTRONICS

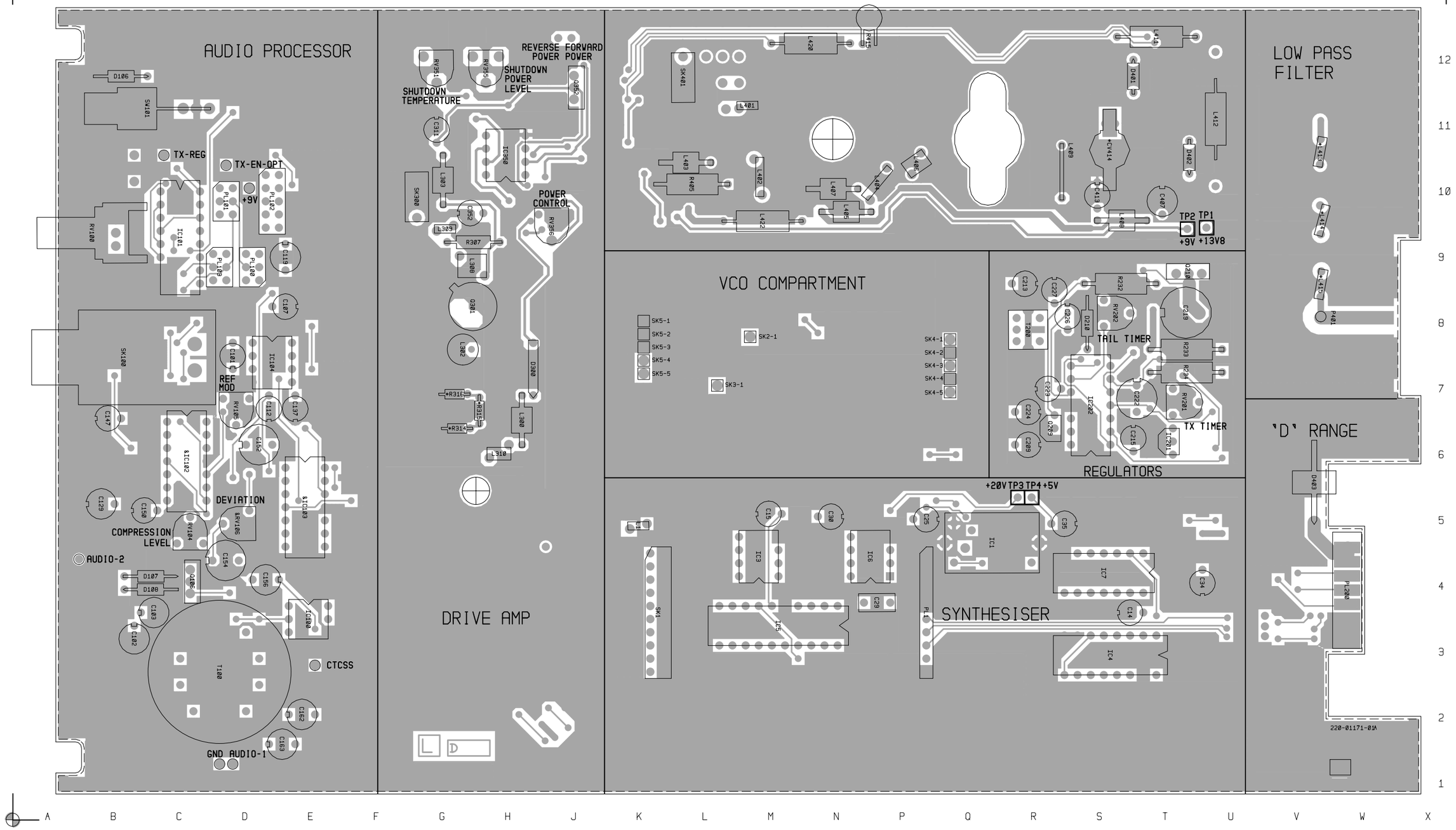
T855/T875 RECEIVER

IPN: 220-01139-02 ISSUE: D ID: 2.SC.4

PROJECT: T800 DESIGNER: FILE NAME: B55RXL2D FILE DATE: 22/7/94 NO. SHEETS: 4

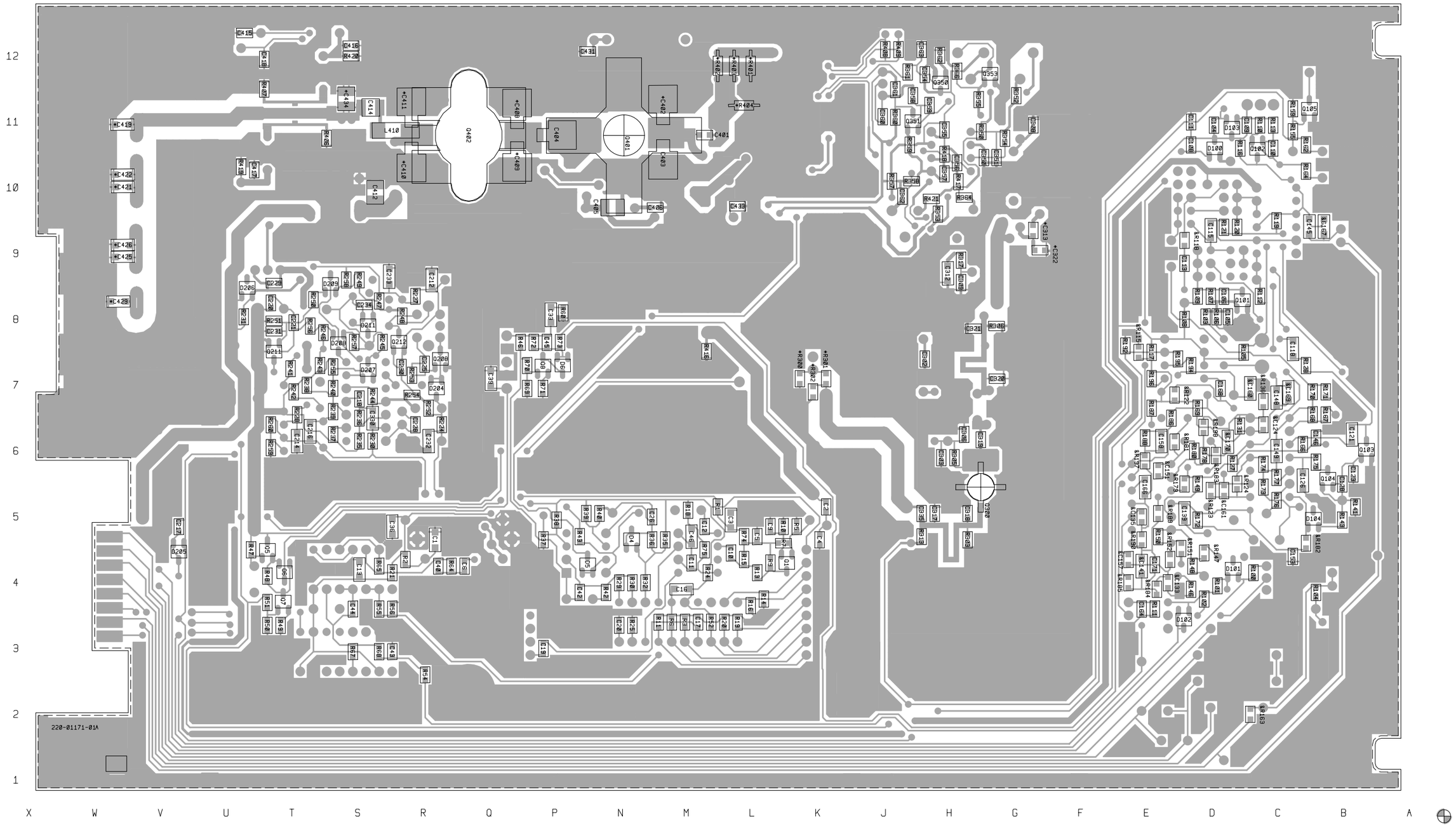
Sheet 4 T855 Receiver - 220-01139-02

Copyright TEL



T856 PCB Layout
Top Side
220-01171-01

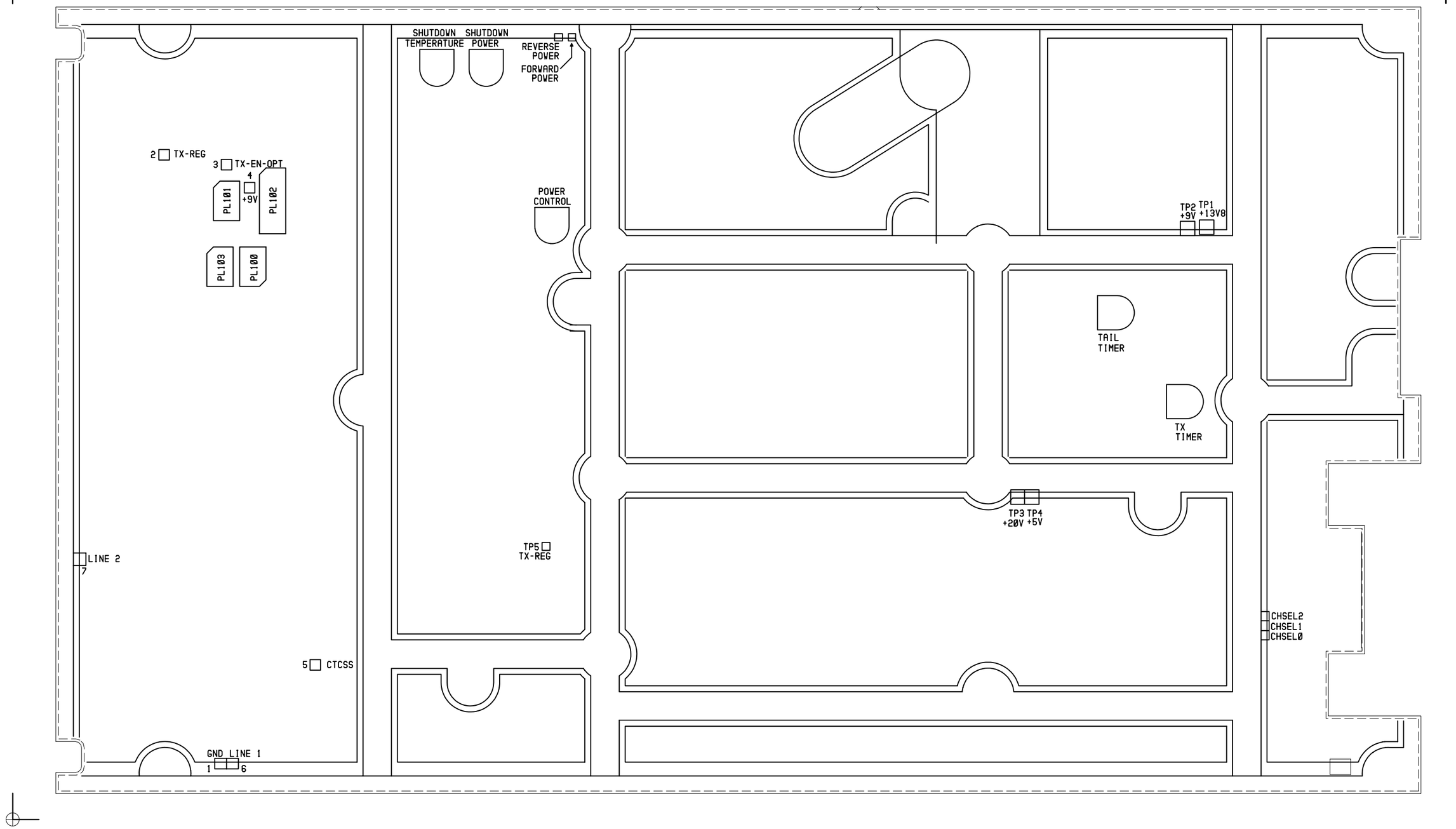
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T856 PCB Layout
Bottom Side
220-01171-01

30/11/96

Copyright TEL



T856 Test Points & Options
Top Side
220-01171-01

Copyright TEL

Copyright TEL

TCXO
12.8MHZ
REFERENCE DIVIDER
800KHZ
REF-MOD
PHASE MODULATOR
200KHZ
VCO GAIN COMPENSATION
LOOP FILTER
VCO DIVIDER BUFFER
8718 - 64/65 WIDE BAND
8719 - 80/81 NARROW BAND
DIVIDER AND DISCRIMINATOR
LOCK DETECT
TO EPROM
TO EPROM

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
1A	C/N 91/01-36	M. HALL				
C		BP				
B	C/N 89-10-580	DEC				
A		BP				
1		J. F				
T99		RH				

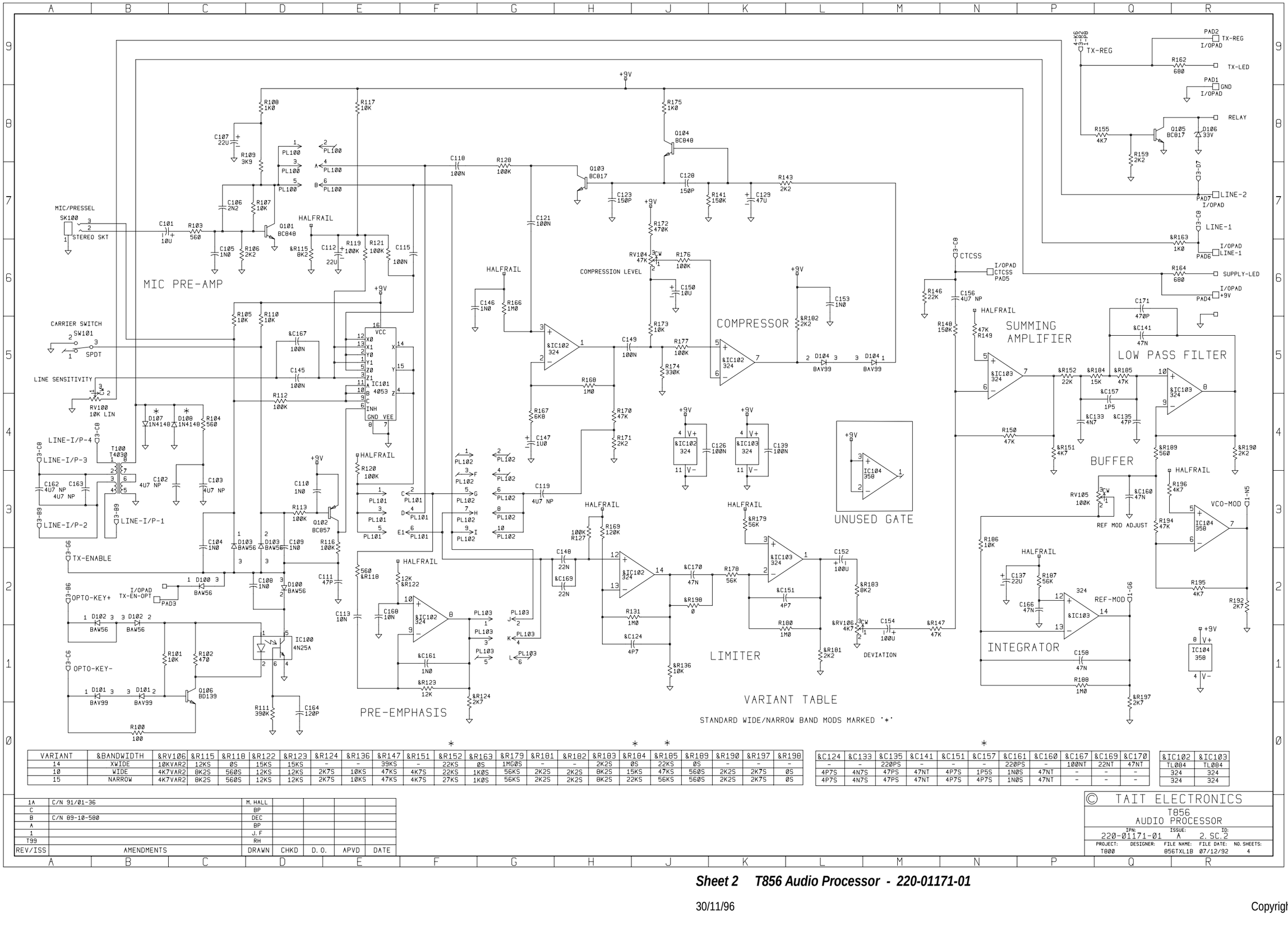
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T856
SYNTHESISER

IPN:	ISSUE:	ID:
220-01171-01	A	2. SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		856TXL1B	07/12/92	4

Copyright TEL



VARIANT	&BANDWIDTH	&RV106	&R115	&R118	&R122	&R123	&R124	&R136	&R147	&R151	&R152	&R163	&R179	&R181	&R182	&R183	&R184	&R185	&R189	&R190	&R197	&R198
												*					*	*				
14	XWIDE	10KVAR2	12KS	0S	15KS	15KS	-	-	39KS	-	22KS	0S	1MG0S	-	-	2K2S	0S	22KS	0S	-	-	-
10	WIDE	4K7VAR2	8K2S	560S	12KS	12KS	2K7S	10KS	47KS	4K7S	22KS	1K0S	56KS	2K2S	2K2S	8K2S	15KS	47KS	560S	2K2S	2K7S	0S
15	NARROW	4K7VAR2	8K2S	560S	12KS	12KS	2K7S	10KS	47KS	4K7S	27KS	1K0S	56KS	2K2S	2K2S	8K2S	22KS	56KS	560S	2K2S	2K7S	0S

&C124	&C133	&C135	&C141	&C151	&C157	&C161	&C160	&C167	&C169	&C170
					*					
-	-	220PS	-	-	-	220PS	-	100NT	22NT	47NT
4P7S	4N7S	47PS	47NT	4P7S	1P5S	1N0S	47NT	-	-	-
4P7S	4N7S	47PS	47NT	4P7S	4P7S	1N0S	47NT	-	-	-

&IC102	&IC103
TL084	TL084
324	324
324	324

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
1A	C/N 91/01-36	M. HALL				
C		BP				
B	C/N 89-10-580	DEC				
A		BP				
1		J. F				
T99		RH				

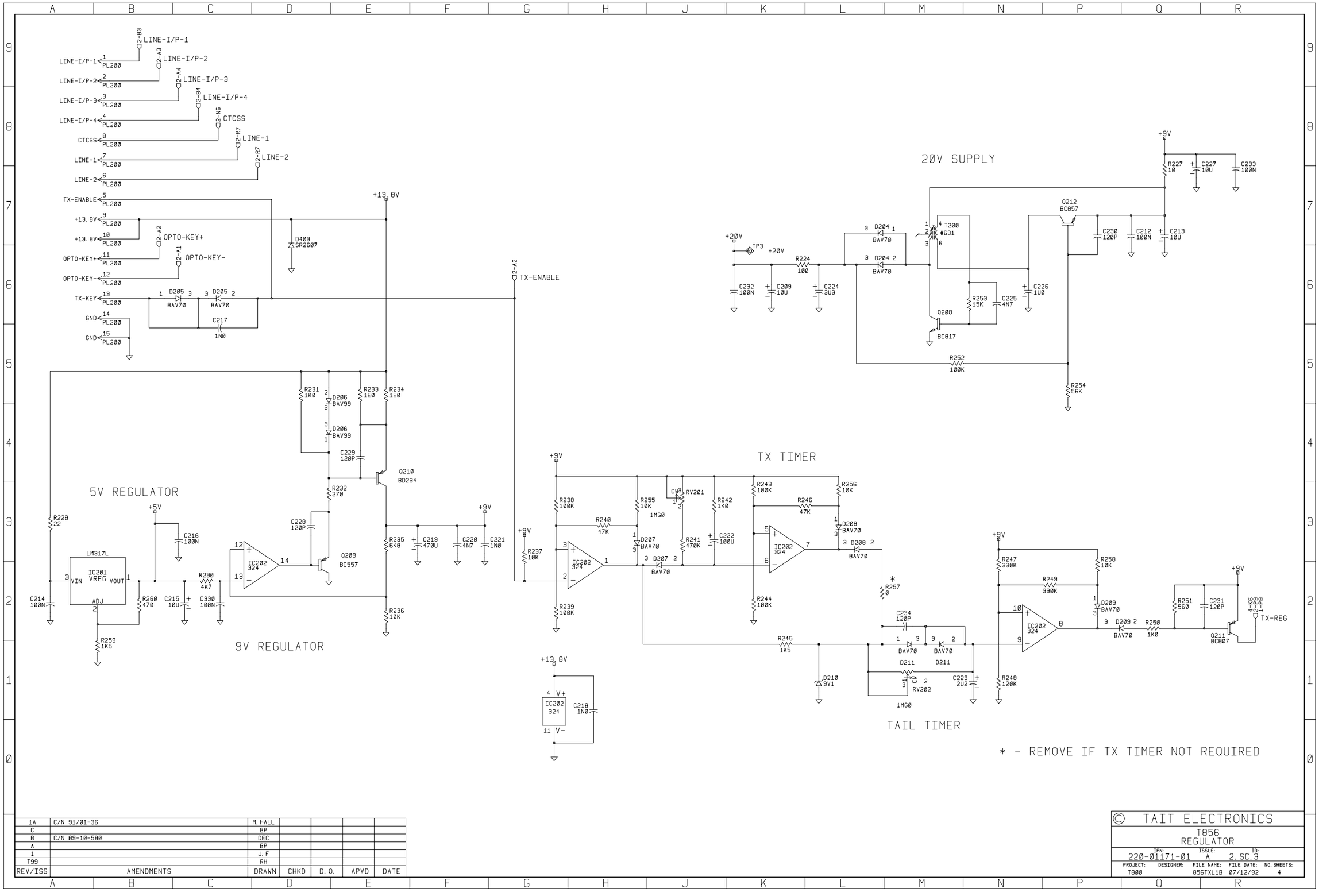
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T856
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01171-01	A	2. SC. 2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		B56TXL1B	07/12/92	4

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
1A	C/N 91/01-36	M. HALL				
C		BP				
B	C/N 89-10-580	DEC				
A		BP				
1		J. F				
T99		RH				

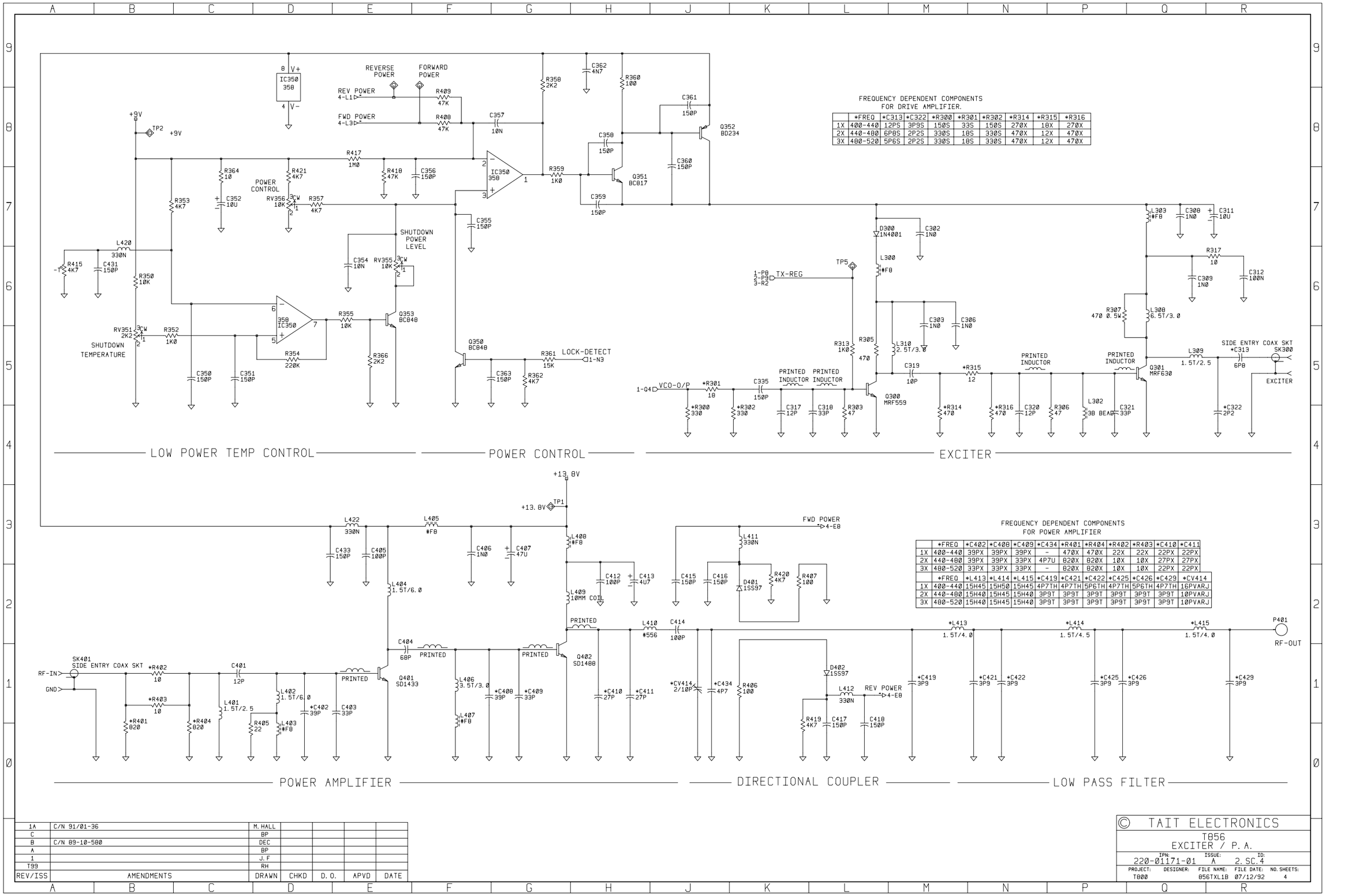
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T856
REGULATOR

IPN:	ISSUE:	ID:
220-01171-01	A	2.SC.3

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		856TXL1B	07/12/92	4

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1A	C/N 91/01-36	M. HALL				
C		BP				
B	C/N 89-10-580	DEC				
A		BP				
1		J. F				
T99		RH				
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

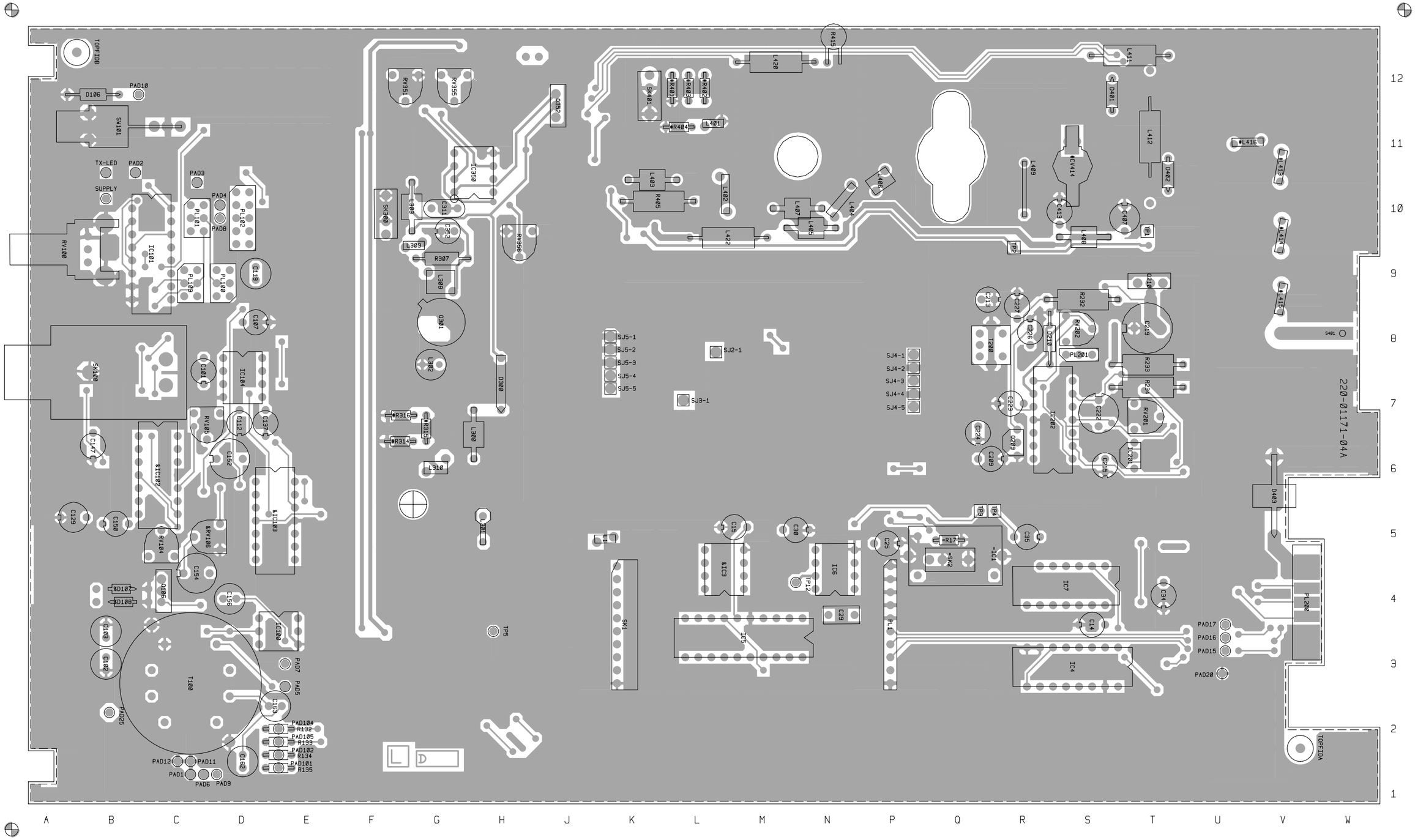
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T856
EXCITER / P. A.

IPN:	ISSUE:	ID:
220-01171-01	A	2. SC. 4

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
T800		B56TXL1B	07/12/92	4

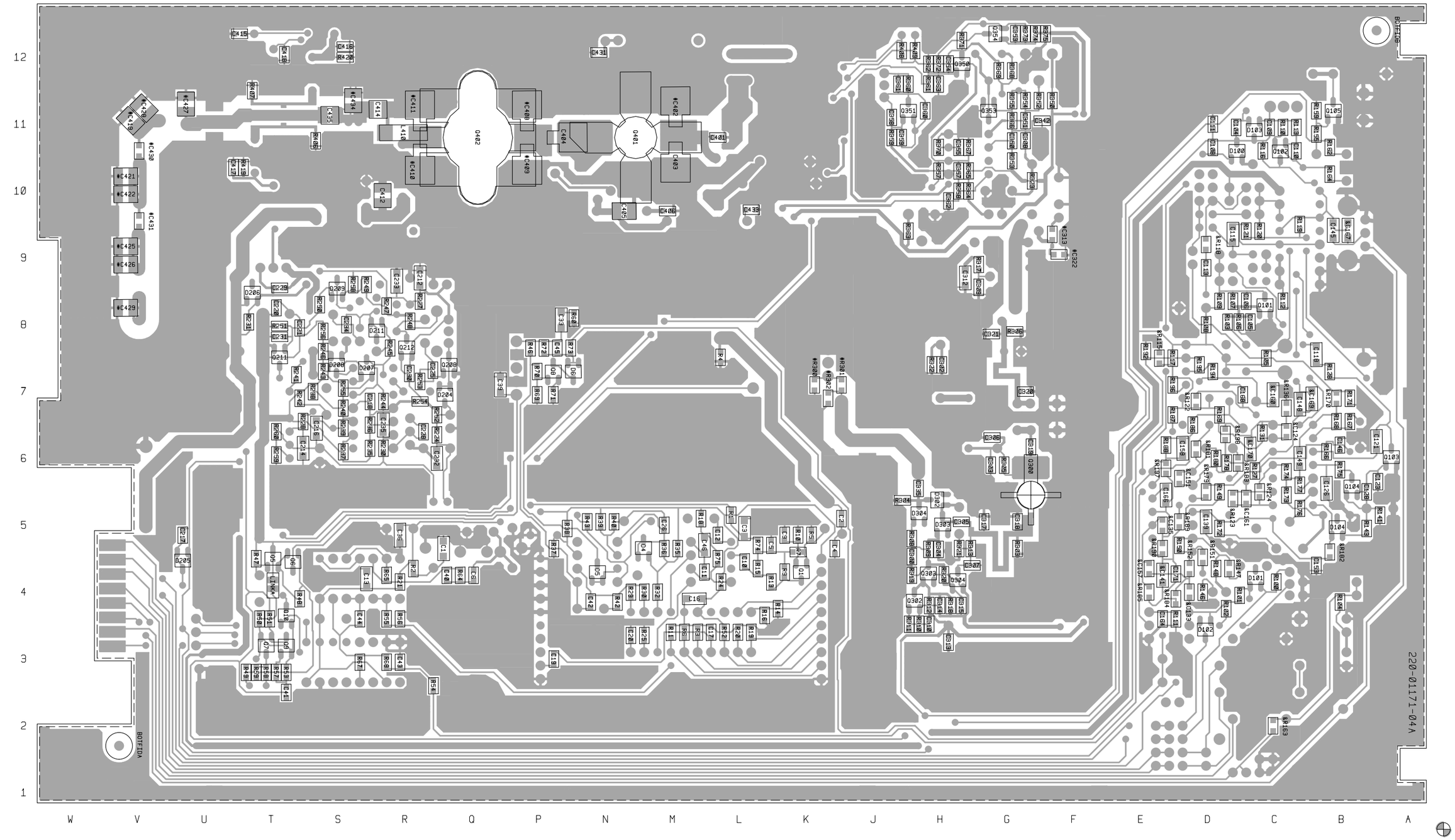
Copyright TEL



T856 PCB Layout
Top Side
220-01171-04

Copyright TEL

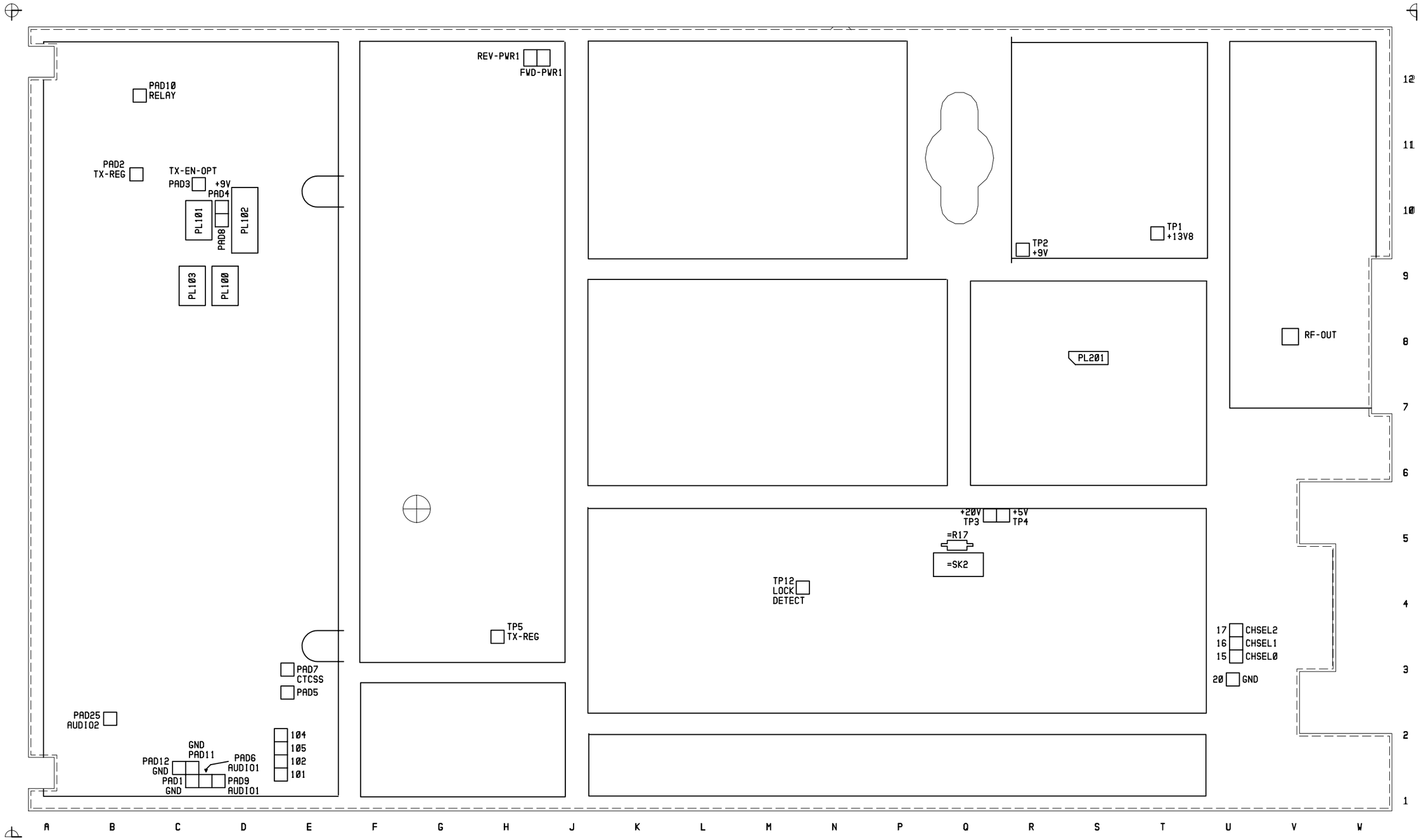
30/11/96



T856 PCB Layout
Bottom Side
220-01171-04

30/11/96

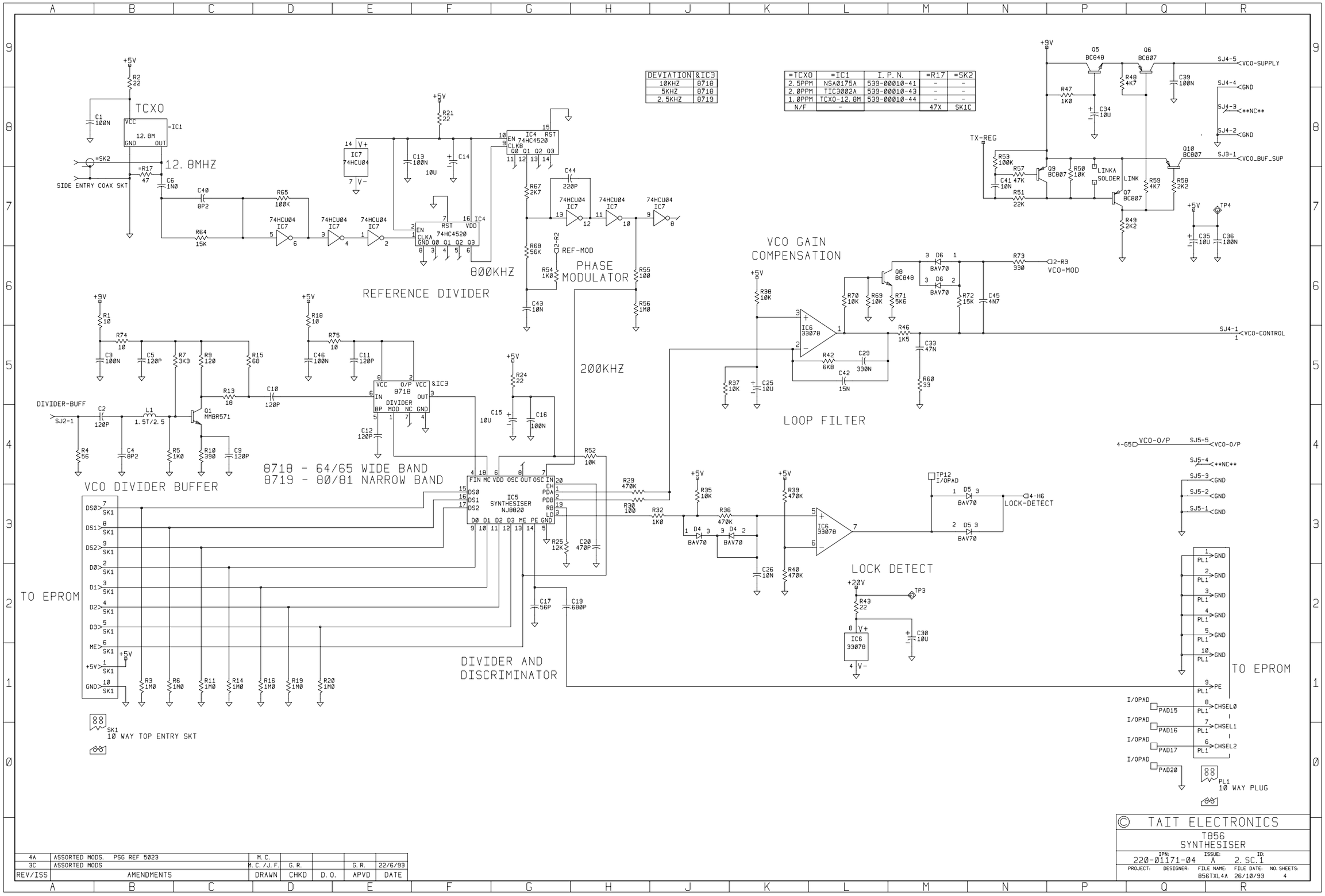
Copyright TEL



T856 Test Points & Options
Top Side
220-01171-04

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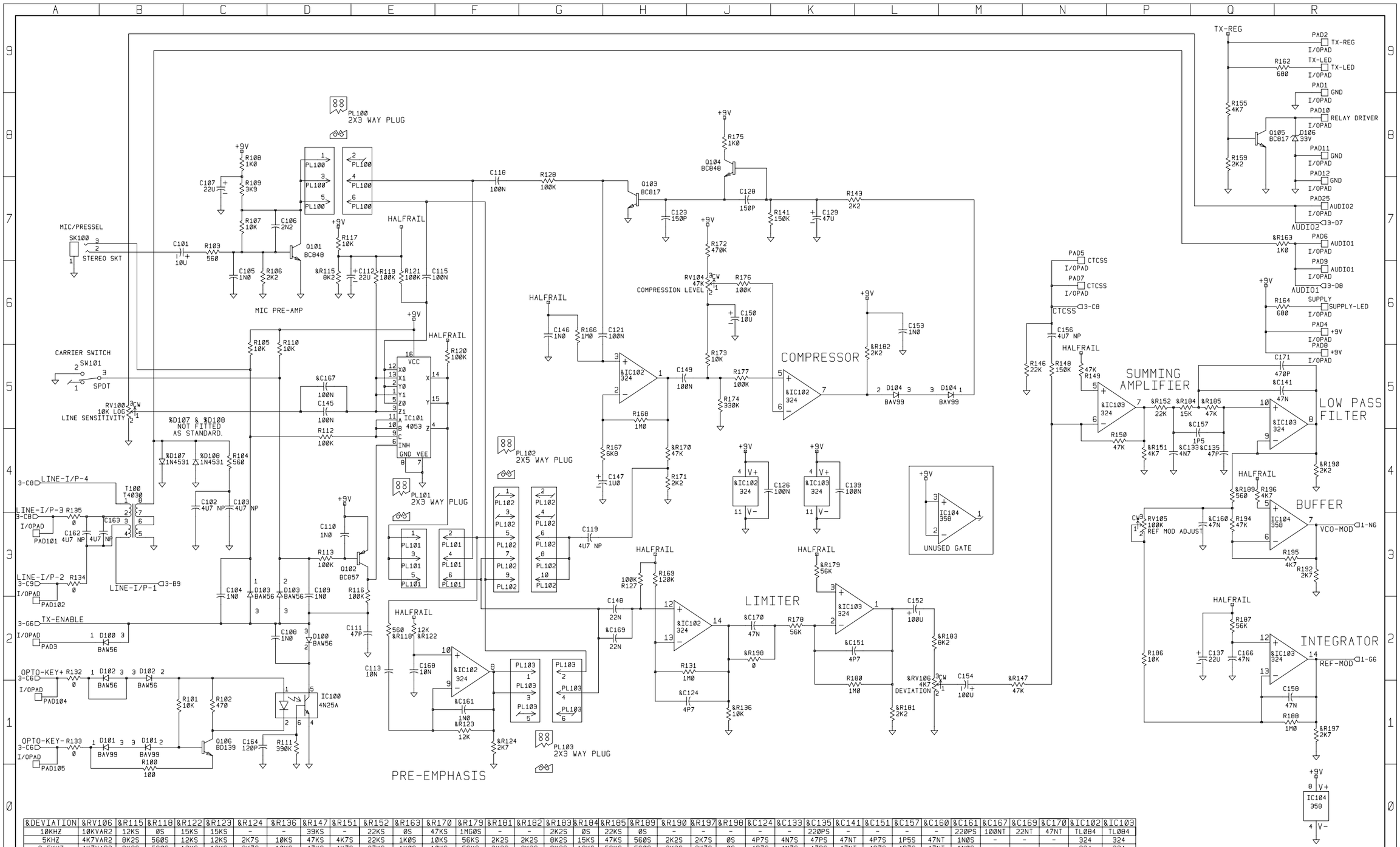


DEVIATION	&IC3
10KHZ	8718
5KHZ	8718
2.5KHZ	8719

=TCXO	=IC1	I. P. N.	=R17	=SK2
2.5PPM	NSA0175A	539-00010-41	-	-
2.0PPM	TIC3002A	539-00010-43	-	-
1.0PPM	TCXO-12.8M	539-00010-44	-	-
N/F	-		47X	SK1C

Sheet 1 T856 Synthesiser
220-01171-04

Copyright TEL



&DEVIATION	&RV106	&R115	&R118	&R122	&R123	&R124	&R136	&R147	&R151	&R152	&R163	&R170	&R179	&R181	&R182	&R183	&R184	&R185	&R189	&R190	&R197	&R198	&C124	&C133	&C135	&C141	&C151	&C157	&C160	&C161	&C167	&C169	&C170	&IC102	&IC103
10KHZ	10KVAR2	12KS	0S	15KS	15KS	-	-	39KS	-	22KS	0S	47KS	1MG0S	-	-	2K2S	0S	22KS	0S	-	-	-	-	-	220PS	-	-	-	-	220PS	100NT	22NT	47NT	TL084	TL084
5KHZ	4K7VAR2	8K2S	560S	12KS	12KS	2K7S	10KS	47KS	4K7S	22KS	1K0S	10KS	56KS	2K2S	2K2S	8K2S	15KS	47KS	560S	2K2S	2K7S	0S	4P7S	4N7S	47PS	47NT	4P7S	1P5S	47NT	1N0S	-	-	-	324	324
2.5KHZ	4K7VAR2	8K2S	560S	12KS	12KS	2K7S	10KS	47KS	4K7S	27KS	1K0S	10KS	56KS	2K2S	2K2S	8K2S	18KS	56KS	560S	2K2S	2K7S	0S	4P7S	4N7S	47PS	47NT	4P7S	1P5S	47NT	1N0S	-	-	-	324	324

4A	ASSORTED MODS. PSG REF 5023	M. C.				
3C	ASSORTED MODS	M. C. /J. F.	G. R.		G. R.	22/6/93
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

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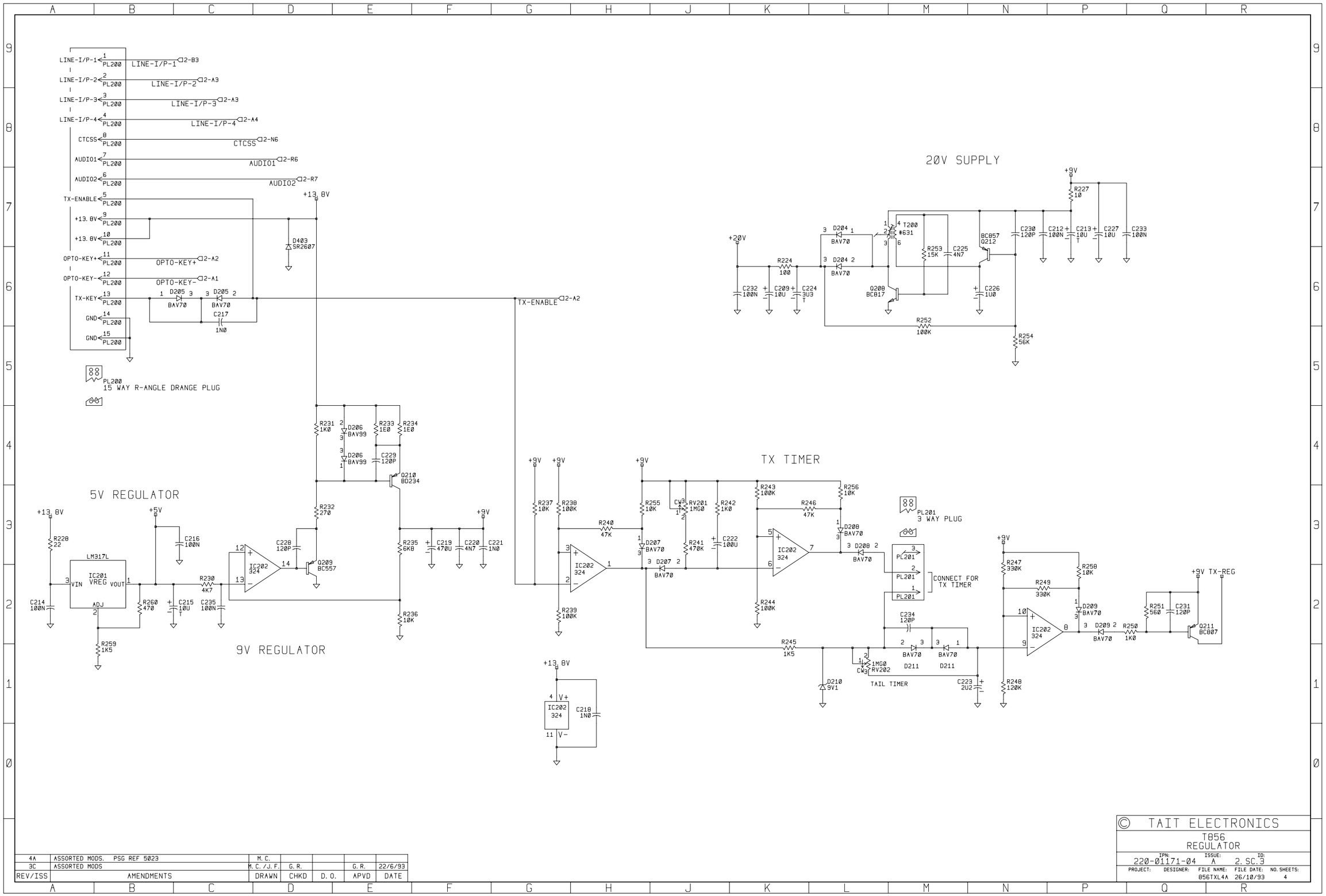
T856
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01171-04	A	2. SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		856TXL4A	26/10/93	4

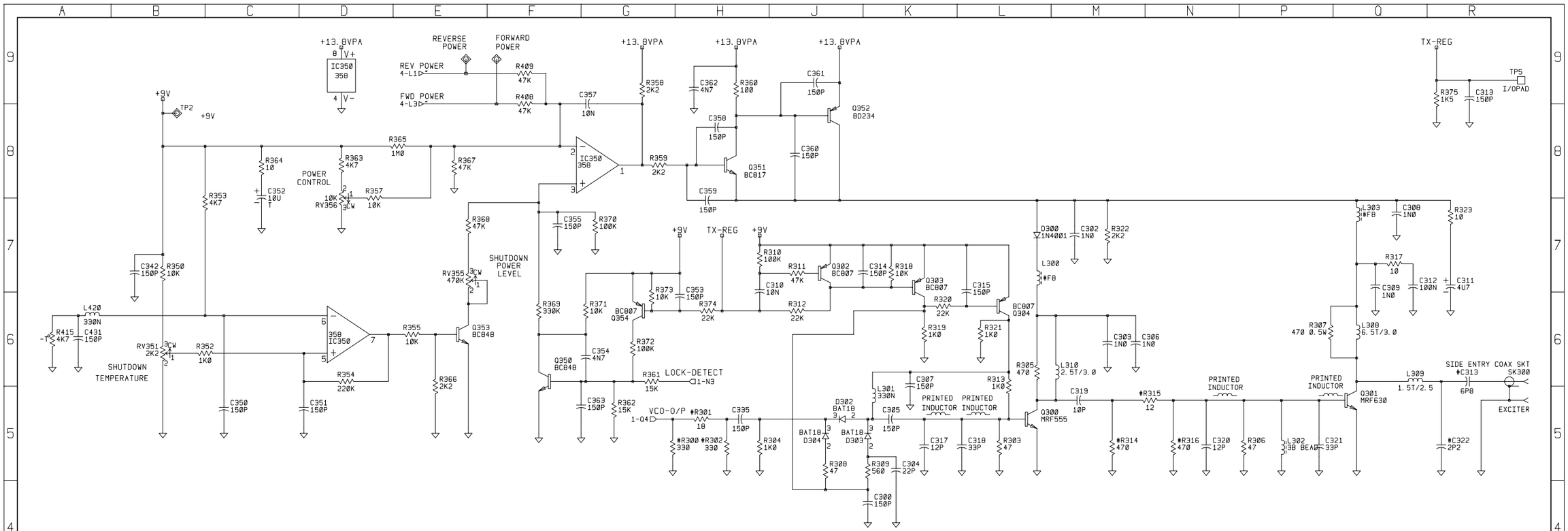
Sheet 2 T856 Audio Processor - 220-01171-04

Copyright TEL

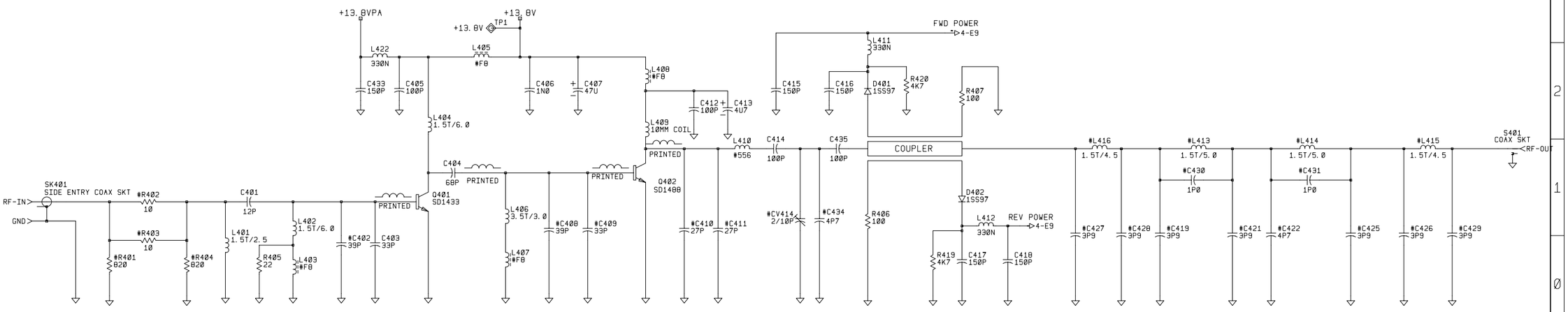


Sheet 3 T856 Regulator
220-01171-04

Copyright TEL



#FREQ	#C313	#C322	#C402	#C408	#C409	#C410	#C411	#C419	#C421	#C422	#C425	#C426	#C427	#C428	#C429	#C430	#C431	#C434	#CV414	#L413	#L414	#L415	#L416	#R300	#R301	#R302	#R314	#R315	#R316	#R401	#R402	#R403	#R404
400-440	12PS	3P9S	39PX	39PX	39PX	22PX	22PX	4P7UH	3P9UH	3P9UH	3P9UH	4P7UH	5P6UH	3P9UH	5P6UH	1P0S	1P0S	-	16PVARJ	15H50	15H55	15H50	15H50	150S	33S	150S	270X	18X	270X	470X	22X	22X	470X
440-480	6P8S	2P2S	39PX	39PX	33PX	27PX	27PX	3P9UH	3P9UH	4P7UH	3P9UH	3P9UH	3P9UH	3P9UH	3P9UH	-	-	4P7U	10PVARJ	15H50	15H50	15H45	15H45	330S	18S	330S	470X	12X	470X	820X	10X	10X	820X
480-520	5P6S	2P2S	33PX	33PX	33PX	22PX	22PX	3P9UH	3P9UH	4P7UH	3P9UH	3P9UH	3P9UH	3P9UH	3P9UH	-	-	-	10PVARJ	15H50	15H50	15H45	15H45	330S	18S	330S	470X	12X	470X	820X	10X	10X	820X



REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
4A	ASSORTED MODS. PSG REF 5023	M.C.				
3C	ASSORTED MODS	M.C./J.F.	GLEN		GLEN	22/6/93

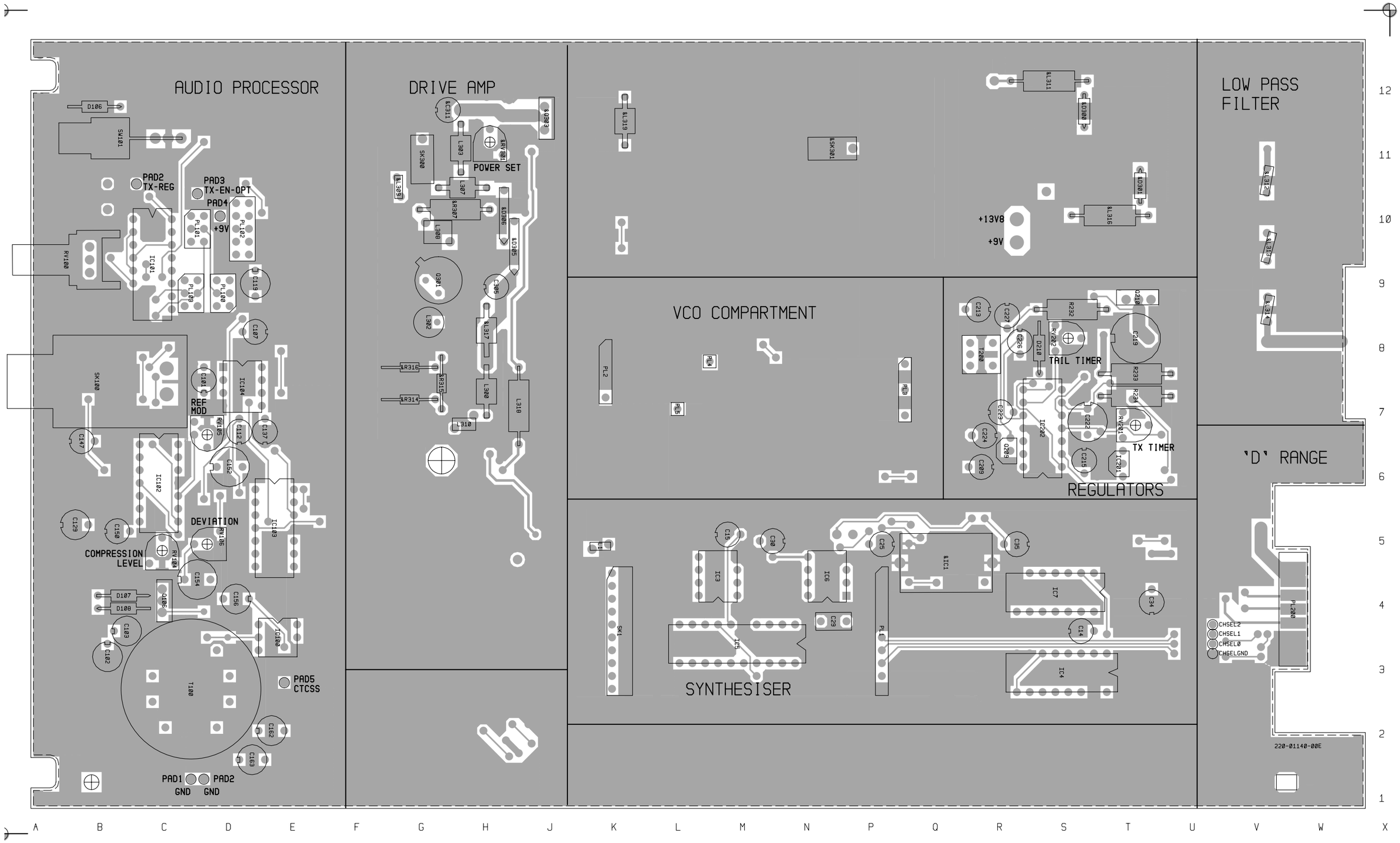
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T856
EXCITER / P.A.

IPN: 220-01171-04 ISSUE: A ID: 2.SC.4

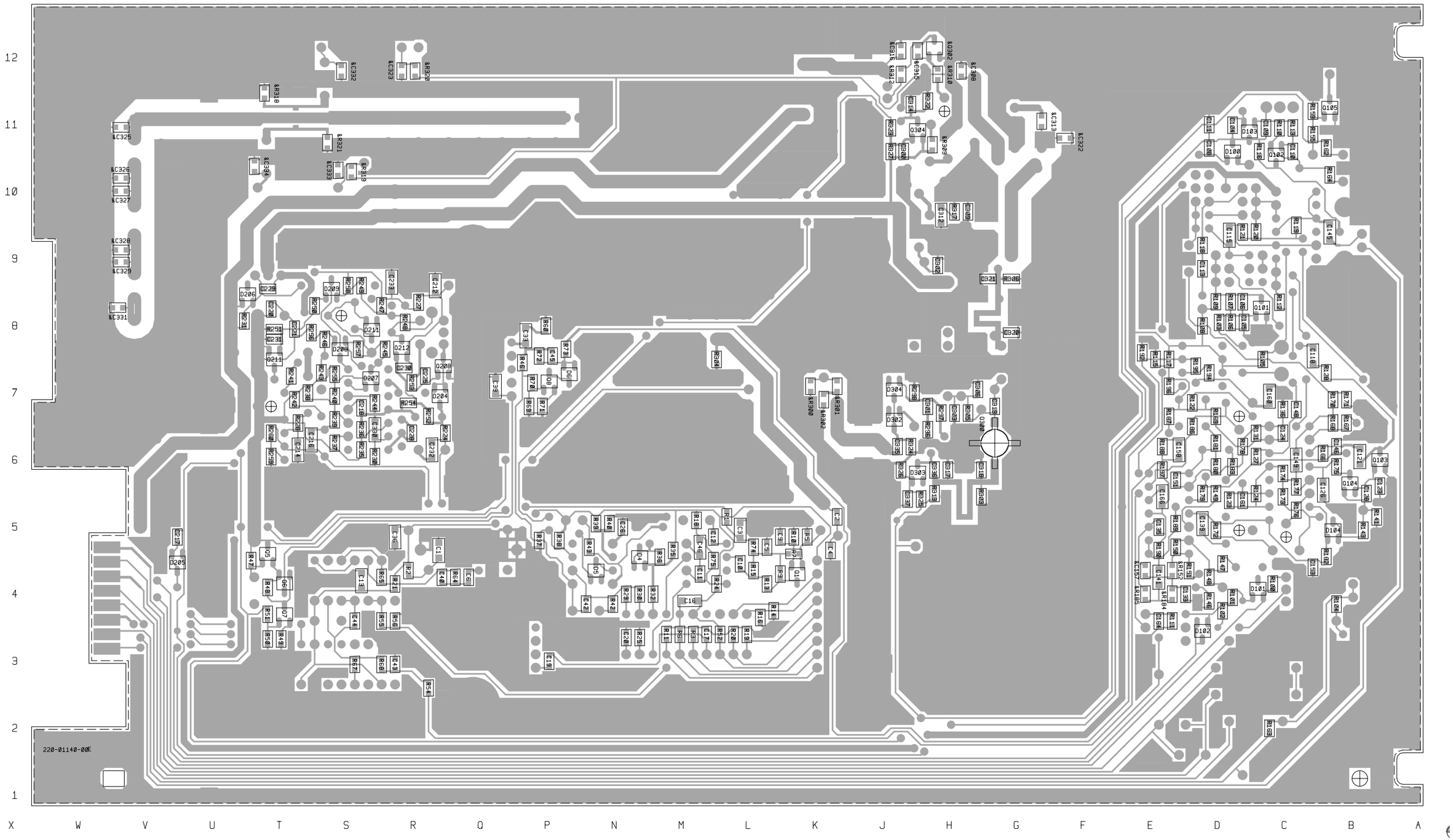
PROJECT: DESIGNER: FILE NAME: T856TXL4A FILE DATE: 26/10/93 NO. SHEETS: 4

Copyright TEL



T857 PCB Layout
Top Side
220-01140-00

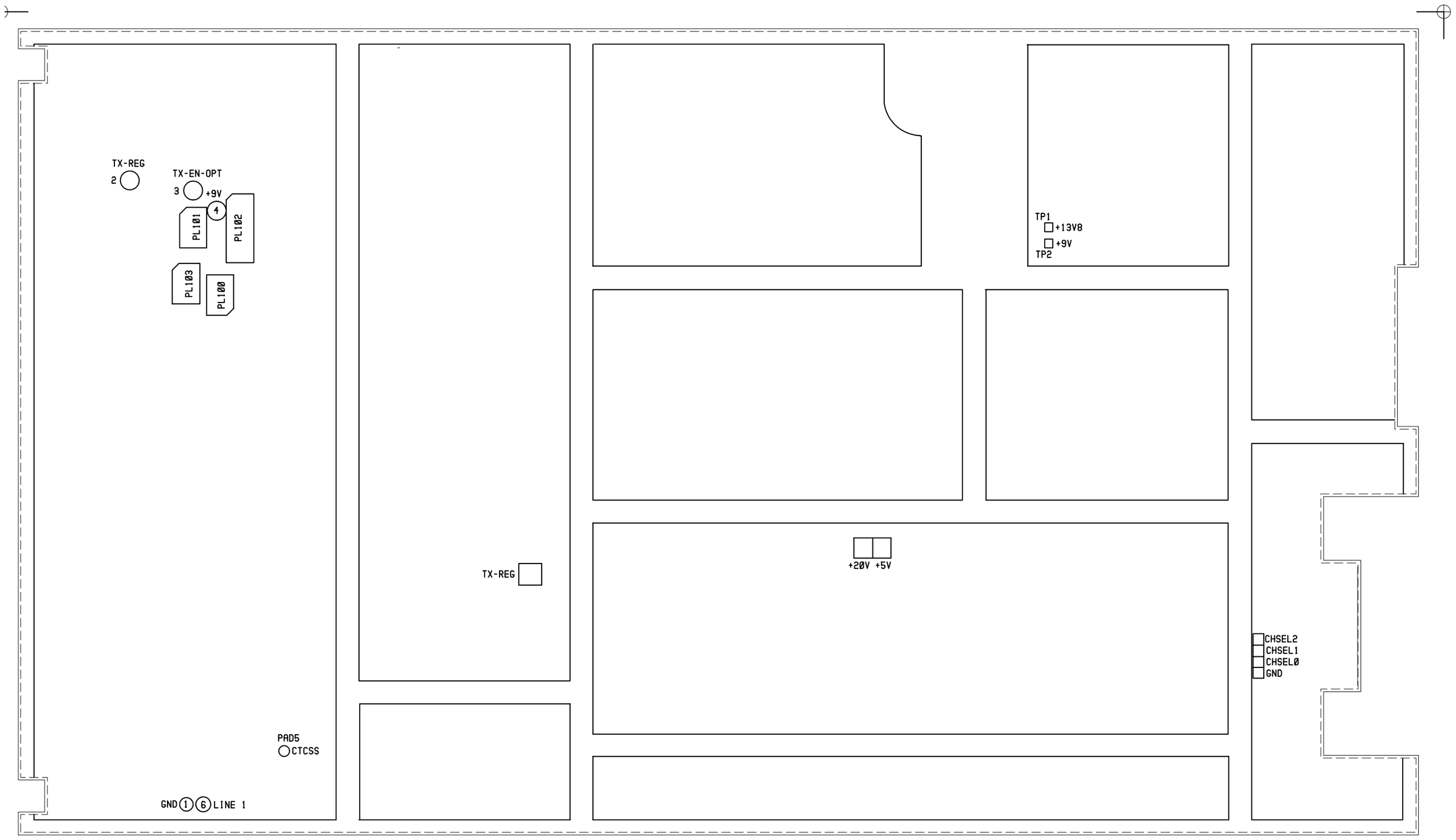
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T857 PCB Layout
Bottom Side
220-01140-00

30/11/96

Copyright TEL



T857 Test Points & Options
Top Side
220-01140-00

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TCXO
12.8MHZ
REFERENCE DIVIDER
800KHZ
PHASE MODULATOR
REF-MOD
200KHZ
VCO GAIN COMPENSATION
TX-REG
VCO-SUPPLY
VCO-CONTROL
VCO-MOD
LOOP FILTER
LOCK-DETECT
VCO-O/P
VCO DIVIDER BUFFER
8718 - 64/65 WIDEBAND
8719 - 80/81 NARROW BAND
DIVIDER AND DISCRIMINATOR
TO EPROM
DC VOLTAGES

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466.	WD				
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

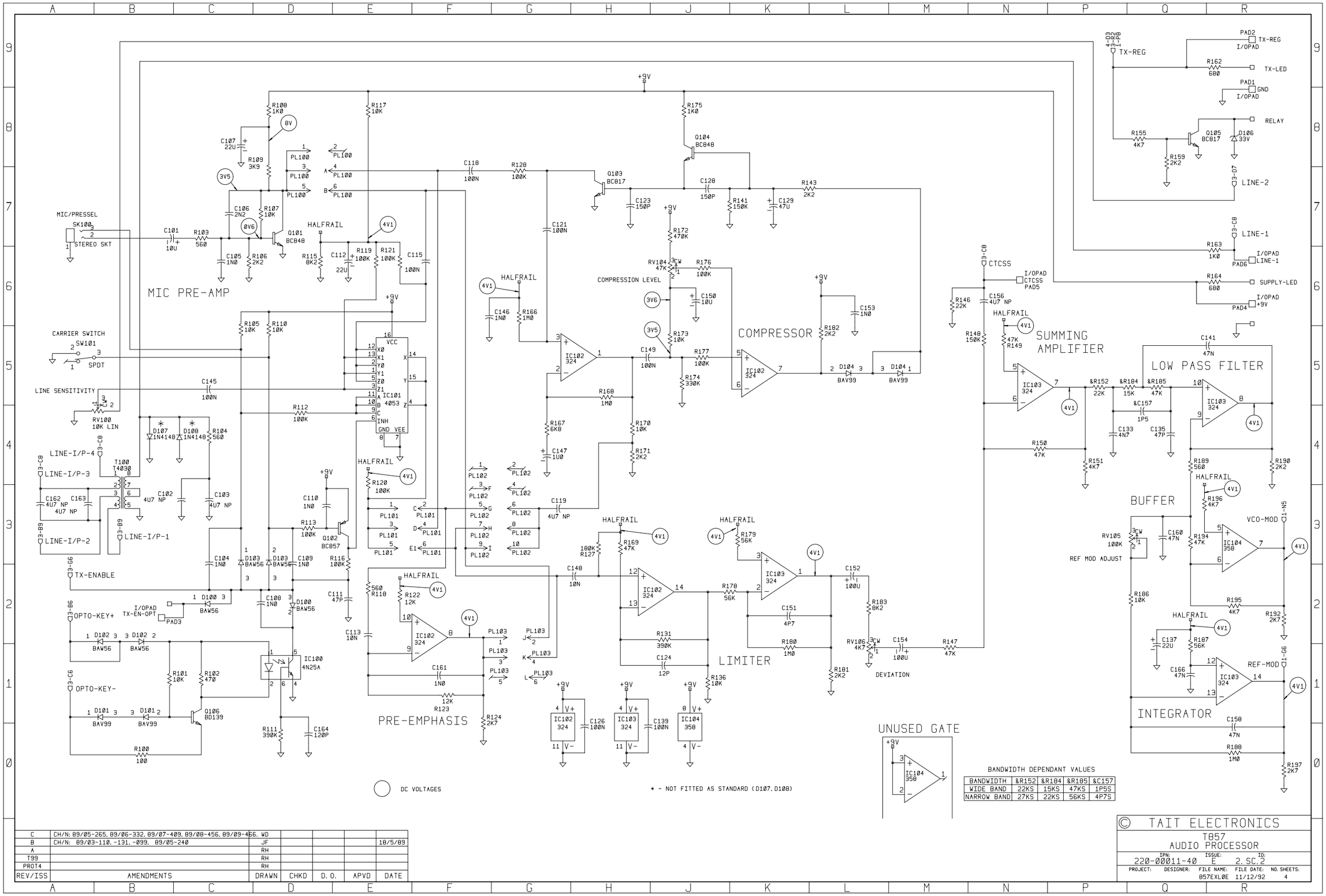
© TAIT ELECTRONICS

T857
SYNTHESISER

IPN:	ISSUE:	ID:
220-00011-40	F	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:
		857EXL0E	11/12/92	4

Copyright TEL



BANDWIDTH DEPENDANT VALUES

BANDWIDTH	&R152	&R184	&R185	&C157
WIDE BAND	22KS	15KS	47KS	1P5S
NARROW BAND	27KS	22KS	56KS	4P7S

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
C	CH/N: 89/05-265. 89/06-332. 89/07-409. 89/08-456. 89/09-466. WD					
B	CH/N: 89/03-110. -131. -099. 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

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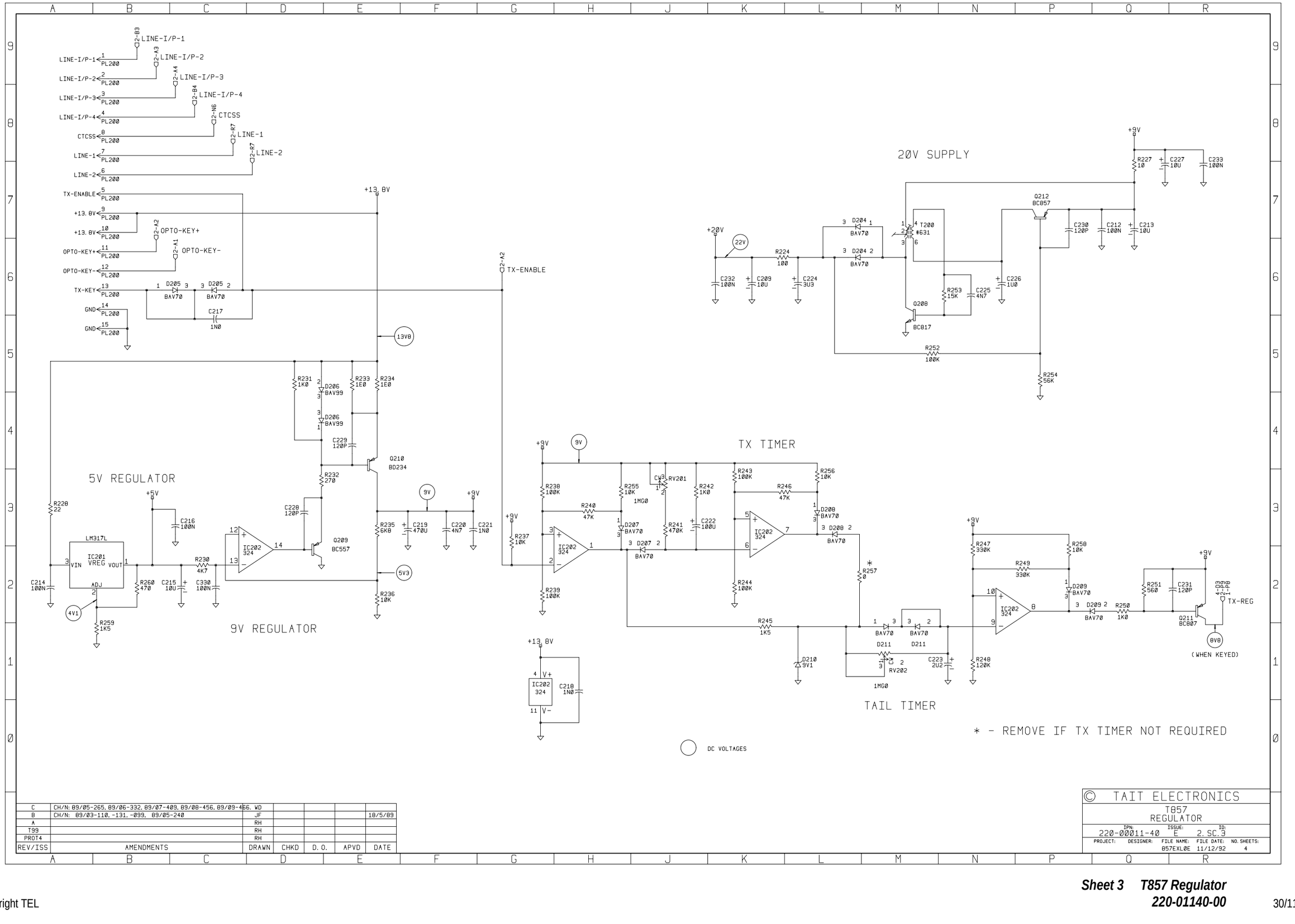
T857
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-00011-40	E	2. SC. 2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL0E	11/12/92	4

Sheet 2 T857 Audio Processor - 220-01140-00

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Sheet 3 T857 Regulator
220-01140-00

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L319 FITTED FOR LOW POWER
TRANSMITTER VERSION ONLY
L307 FITTED FOR 1W EXCITER VERSION ONLY

LOW POWER TRANSMITTER VERSION ONLY

RF SWITCH

POWER SET

DIRECTIONAL COUPLER

LOW POWER TRANSMITTER OUTPUT

SK301 SIDE ENTRY COAX SKT

SK300 EXCITER SIDE ENTRY COAX SKT

1-04 VCO-O/P

1-N3 LOCK-DETECT

4-A1 TX-REG

4-C3 TX-REG

FREQUENCY DEPENDENT VALUES

*	MHZ	&C313	&C322	&R300	&R301	&R302	&R314	&R315	&R316
1X	400-440	12PS	3P9S	150S	33S	150S	270Y	18Y	270Y
2X	440-480	6P8S	2P2S	150S	33S	150S	470Y	12Y	470Y
3X	480-520	3P3S	2P2S	330S	18S	330S	470Y	12Y	470Y

DC VOLTAGES

RF LEVEL MEASURED WITH RF PROBE

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
C	CH/N: 89/05-265. 89/06-332. 89/07-409. 89/08-456. 89/09-466. WD					
B	CH/N: 89/03-110. -131. -099. 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

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T857
EXCITER DRIVE AMPLIFIER

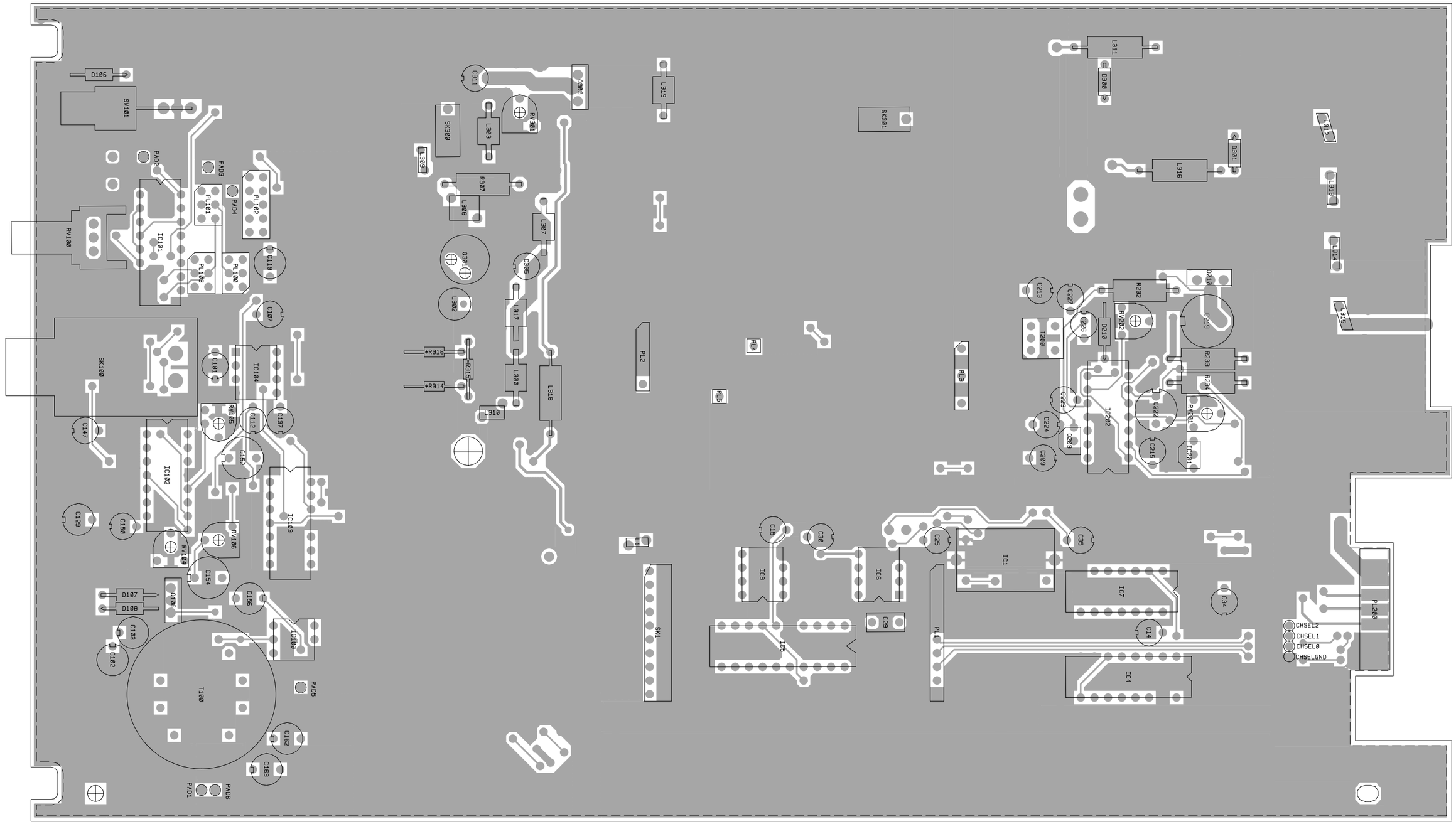
IPN:	ISSUE:	ID:
220-00011-40	E	2. SC. 4

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL0E	11/12/92	4

Sheet 4 T857 Exciter Drive Amplifier - 220-01140-00

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220-01140-01 D

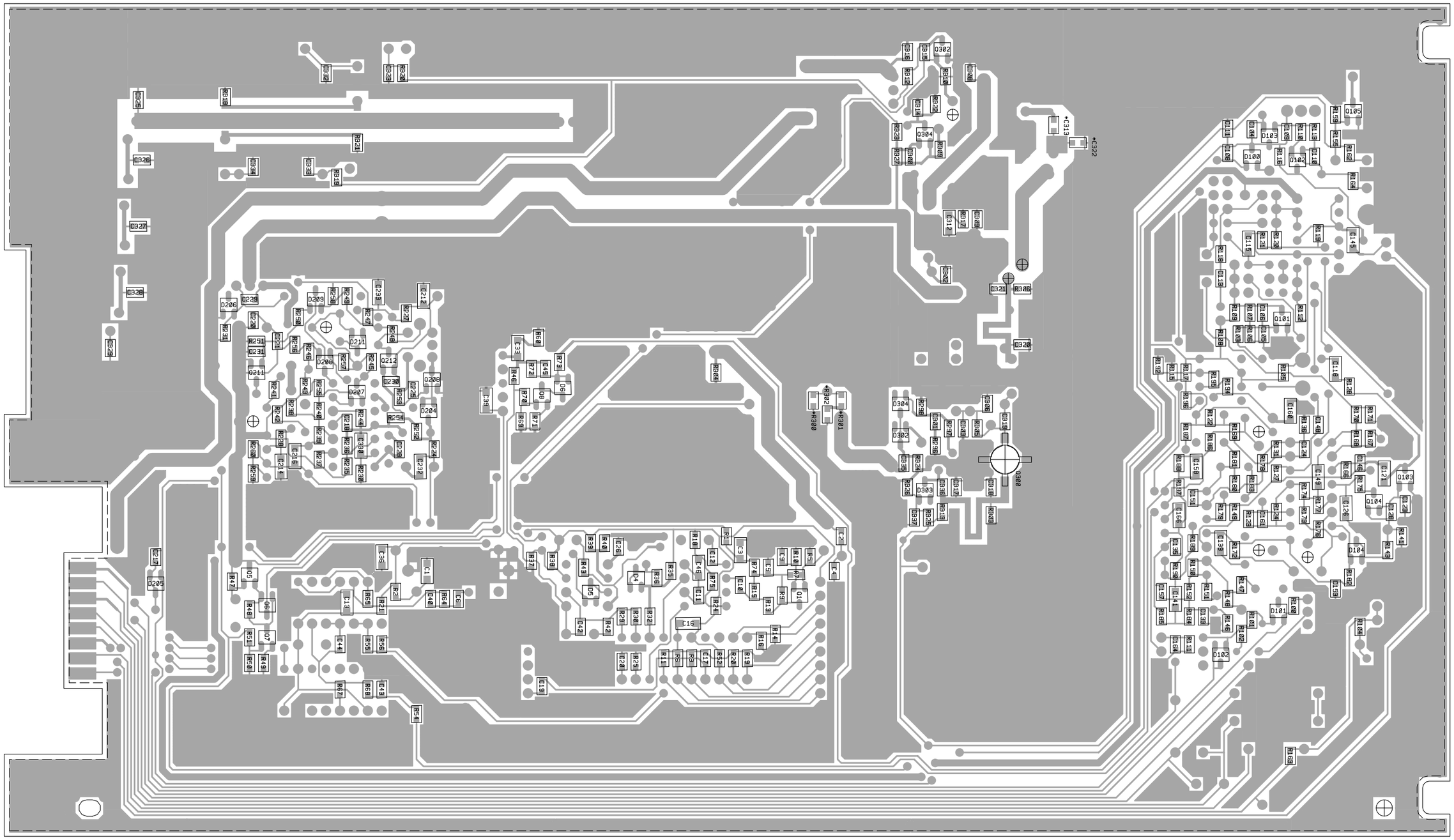


A B C D E F G H J K L M N P Q R S T U V W X

T857 PCB Layout
Top Side
220-01140-01

Copyright TEL

220-01140-01D

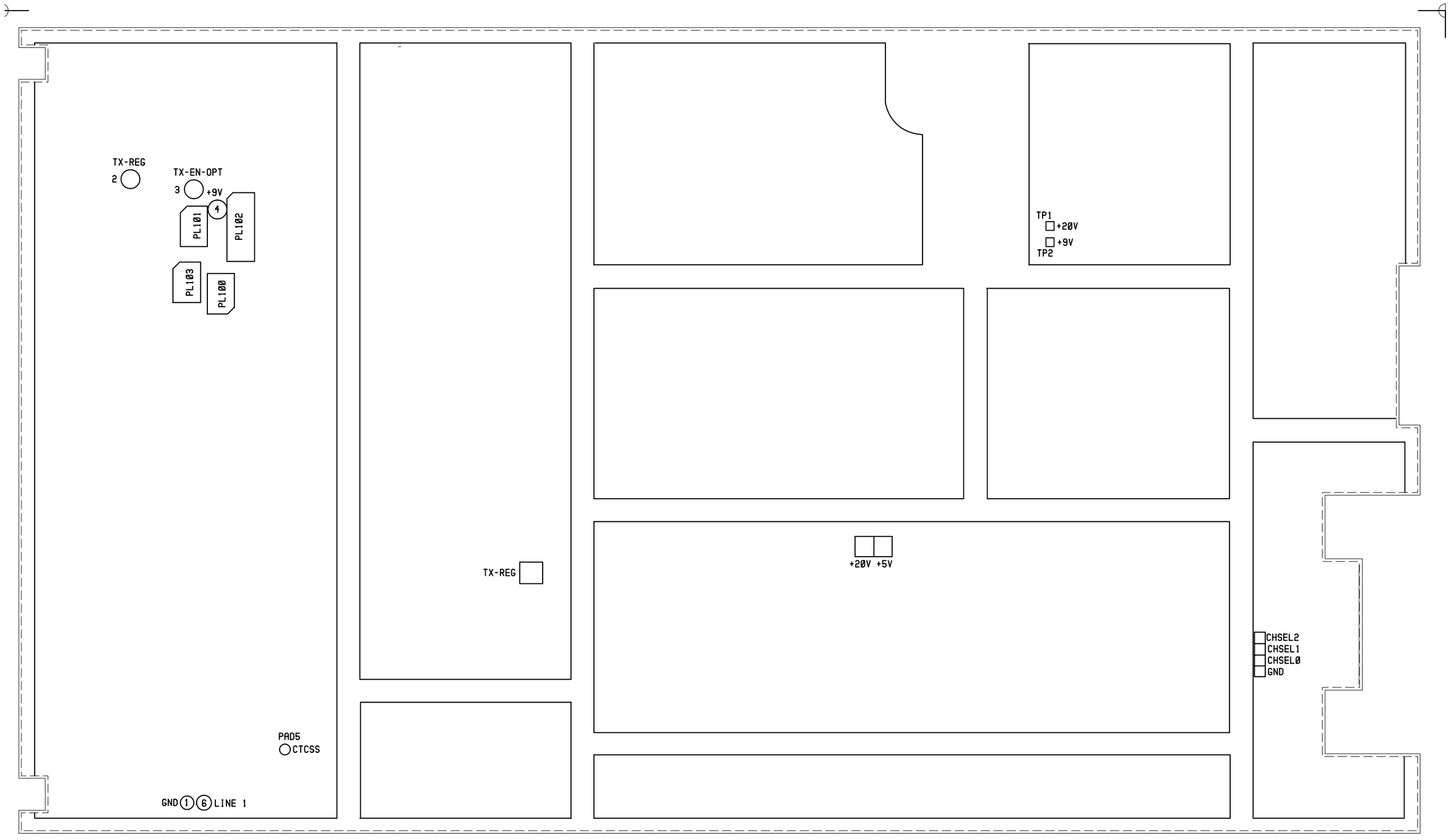


X W V U T S R Q P N M L K J H G F E D C B A

T857 PCB Layout
Bottom Side
220-01140-01

30/11/96

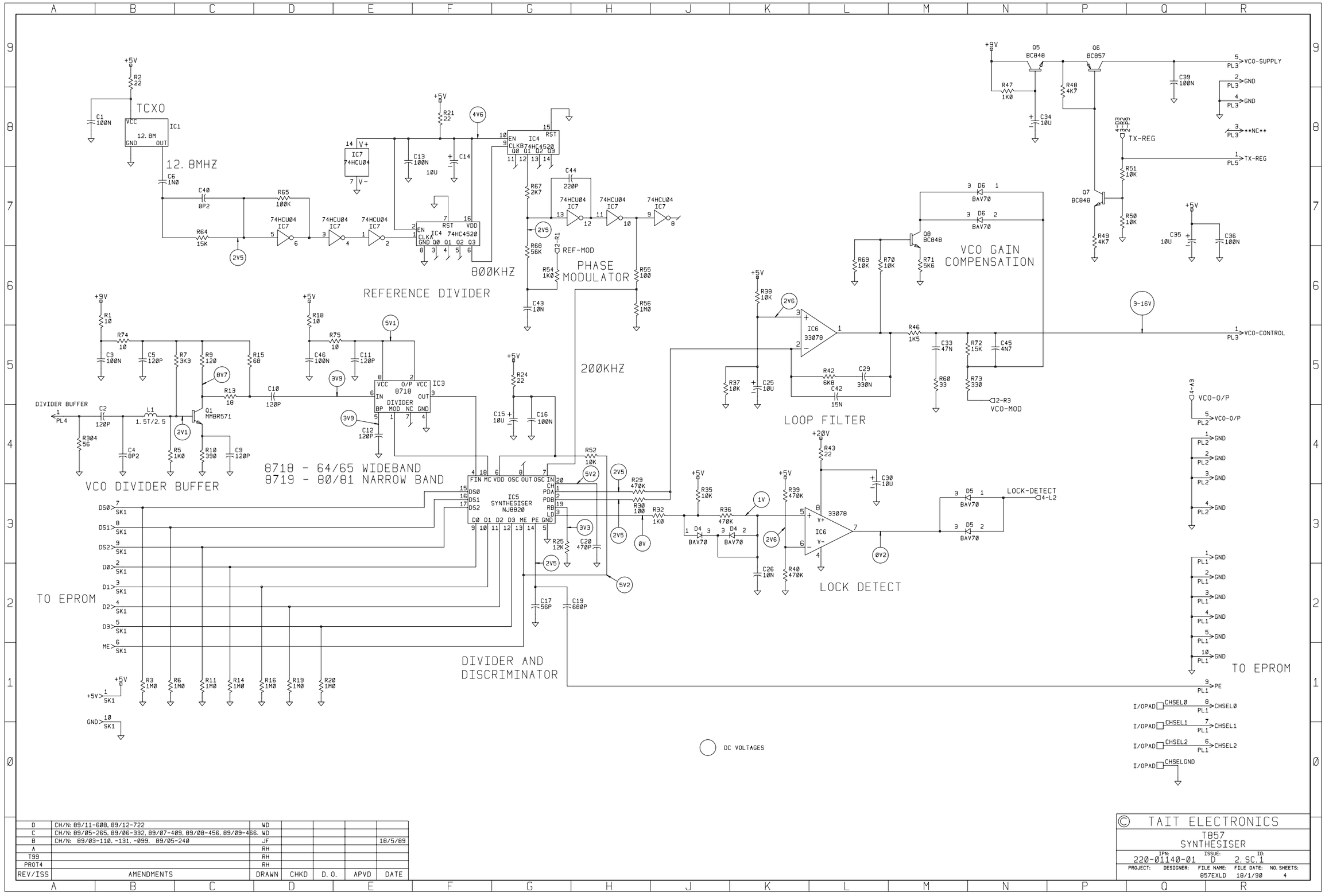
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T857 Test Points & Options
Top Side
220-01140-01

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REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
D	CH/N: 89/11-608. 89/12-722	WD				
C	CH/N: 89/05-265. 89/06-332. 89/07-409. 89/08-456. 89/09-456.	WD				
B	CH/N: 89/03-110. -131. -099. 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

© TAIT ELECTRONICS

T857
SYNTHESISER

IPN:	ISSUE:	ID:
220-01140-01	D	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		B57EXLD	18/1/90	4

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MIC PRE-AMP

HALFRAIL

COMPRESSION LEVEL

COMPRESSOR

SUMMING AMPLIFIER

LOW PASS FILTER

CARRIER SWITCH

LINE SENSITIVITY

PRE-EMPHASIS

LIMITER

BUFFER

REF MOD ADJUST

INTEGRATOR

UNUSED GATE

DEVIATION

DC VOLTAGES

* - NOT FITTED AS STANDARD (D107, D108)

BANDWIDTH DEPENDANT VALUES

BANDWIDTH	&R152	&R184	&R185	&C157
WIDE	22KS	15KS	47KS	1P5S
NARROW	27KS	22KS	56KS	4P7S

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
D	CH/N: 89/11-608, 89/12-722	WD				
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466.	WD				
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

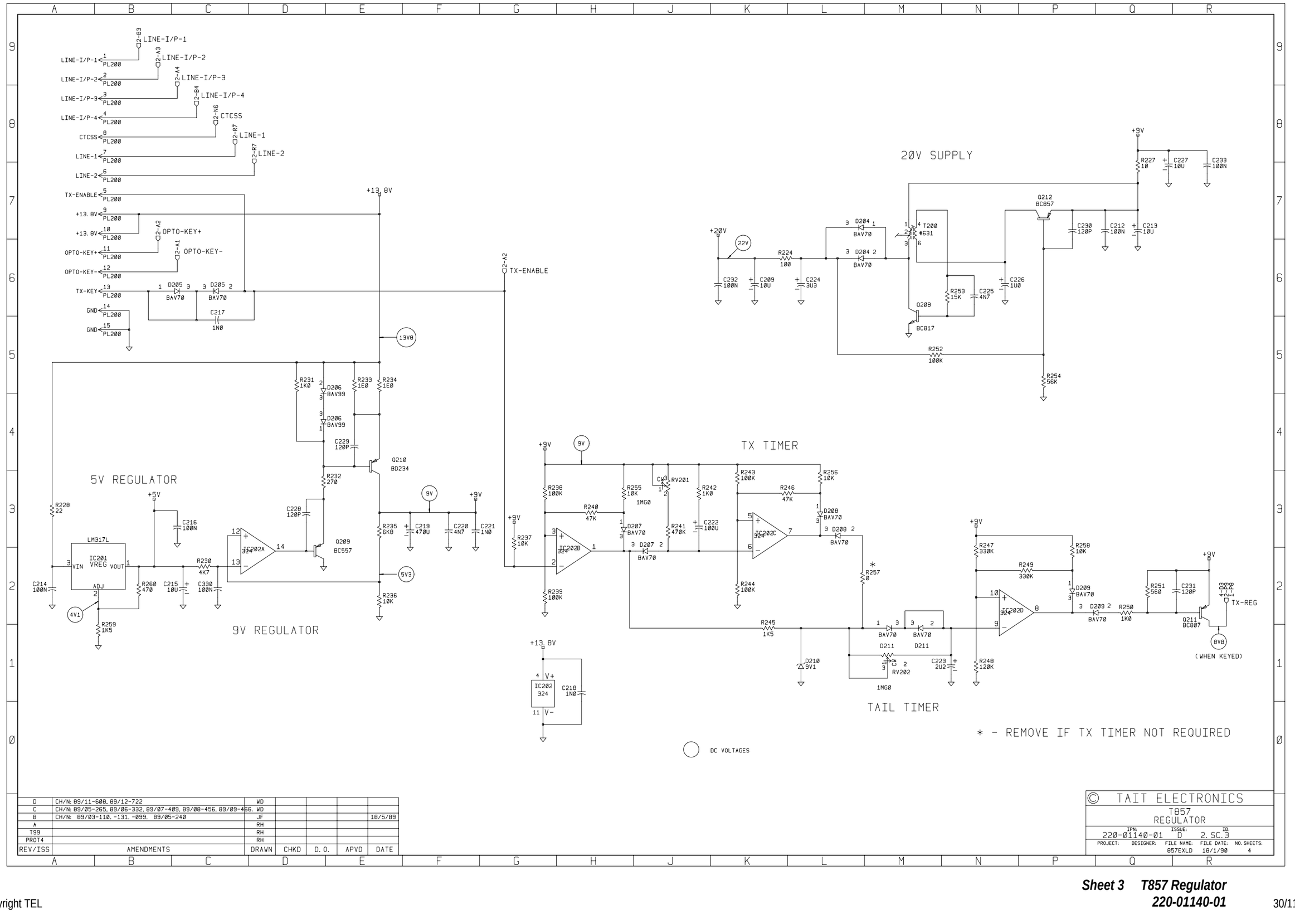
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T857
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01140-01	D	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXLD	18/1/90	4

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REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
D	CH/N: 89/11-608, 89/12-722	WD				
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466.	WD				
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

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T857
REGULATOR

IPN:	ISSUE:	ID:
220-01140-01	D	2.SC.3

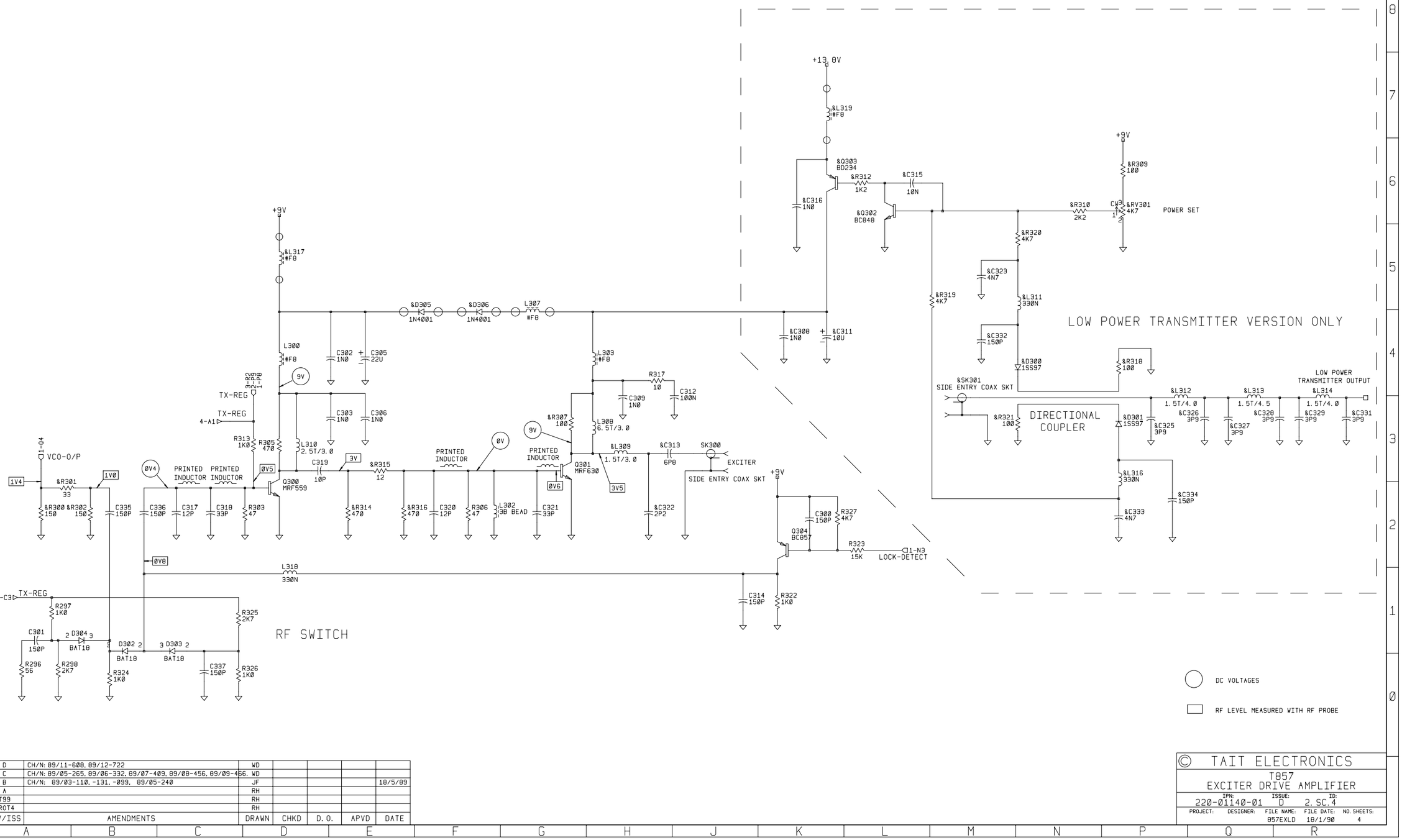
PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXLD	18/1/90	4

Sheet 3 T857 Regulator
220-01140-01

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VARIANT DEPENDANT VALUES

		MHZ	&C313	&C322	&C325	&C326	&C327	&C328	&C329	&C331	&R300	&R301	&R302	&R307	&R314	&R315	&R316	&D305	&D306	&L309	&L312	&L313	&L314	&L317	&L319	&C300	&C311	&C315	&C316	&C323	&C332	&C333	&C334	&R309	&R310	&R312	&R318	&R319	&R320	&R321	&Q302	&Q303	&D300	&D301	&SK301	&L311	&L316	&RV301
LOW	-11	400-440	12PS	3P9S	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	150S	39S	150S	470W.5	270Y	18Y	270Y	1N4001	1N4001	15H30	15H45	15H50	15H45	-	F8	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
VERSION	-21	440-480	6P8S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	150S	39S	150S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	F8	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
2 WATT	-31	480-520	3P3S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	F8	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
EXCITER	-10	400-440	22PS	-	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	330S	18S	330S	100Z	270Y	18Y	270Y	F8	F8	15H30	15H45	15H50	15H45	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERSION	-20	440-480	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	18Y	270Y	F8	F8	15H30	15H40	15H45	15H40	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 WATT	-30	480-520	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	18Y	270Y	F8	F8	15H25	15H40	15H45	15H40	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
D	CH/N: 89/11-608, 89/12-722	WD				
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466.	WD				
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				

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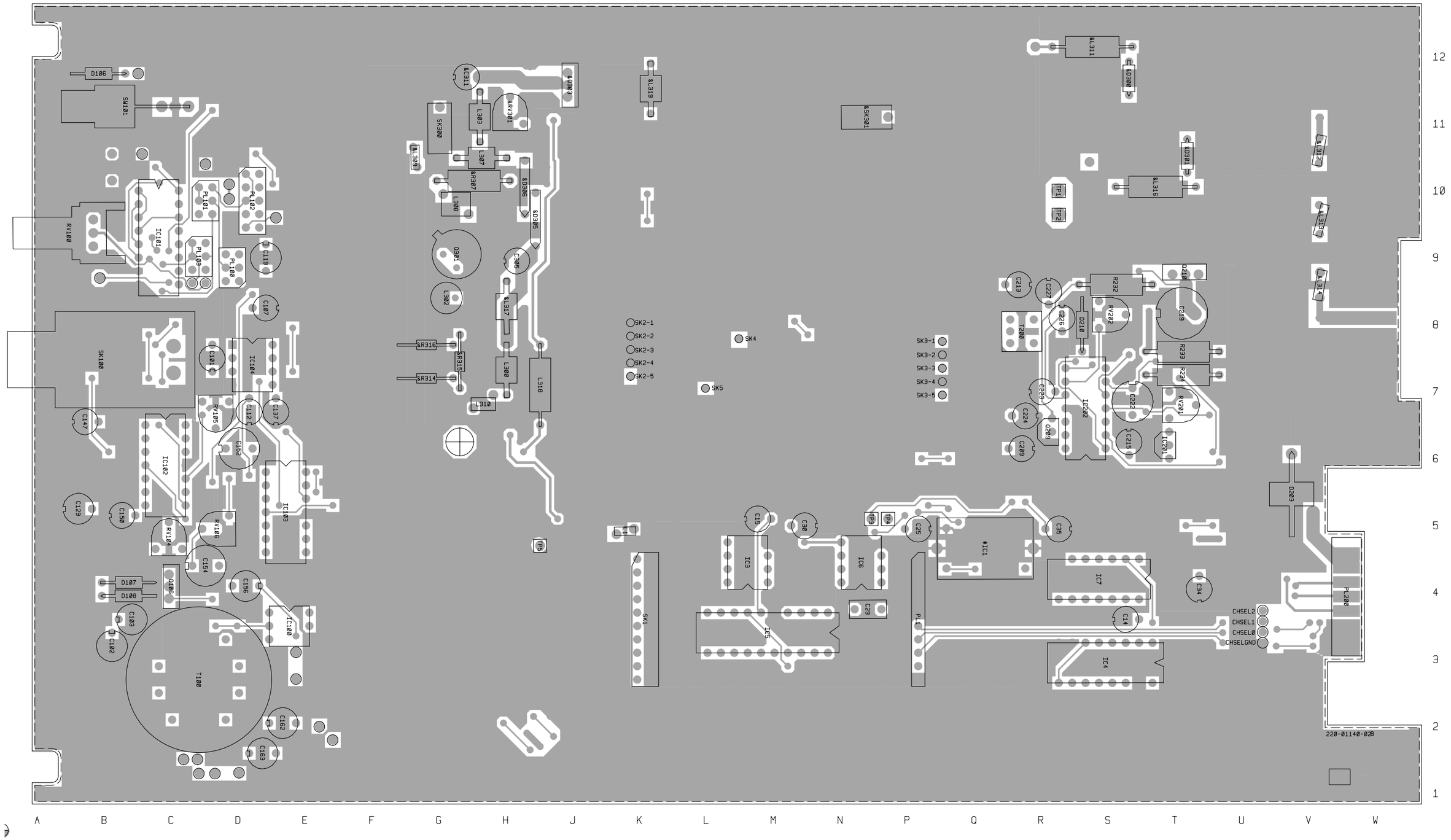
T857
EXCITER DRIVE AMPLIFIER

IPN:	ISSUE:	ID:
220-01140-01	D	2.SC.4

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:
		857EXLD	18/1/90	4

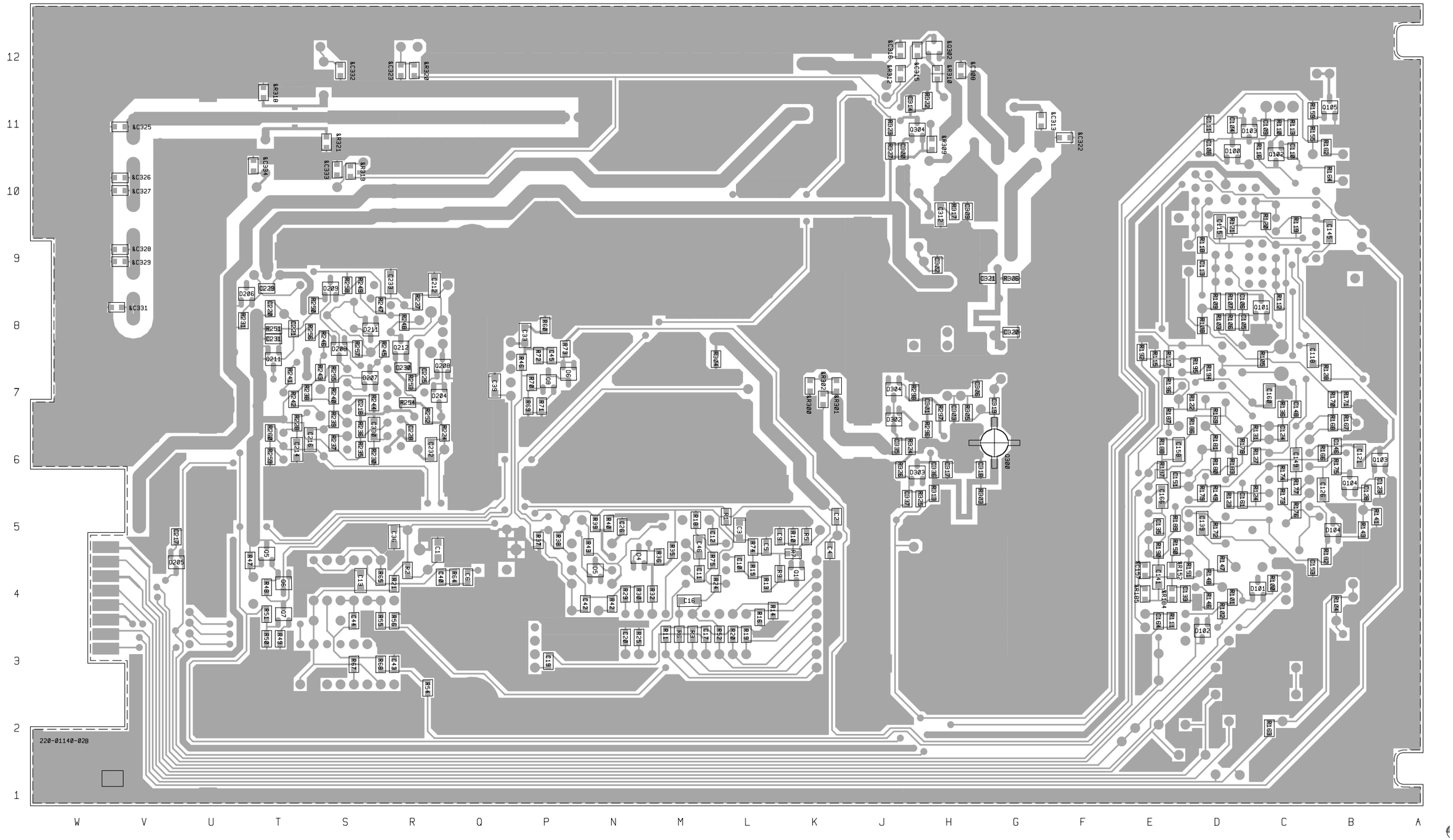
Sheet 4 T857 Exciter Drive Amplifier - 220-01140-01

Copyright TEL



T857 PCB Layout
Top Side
220-01140-02

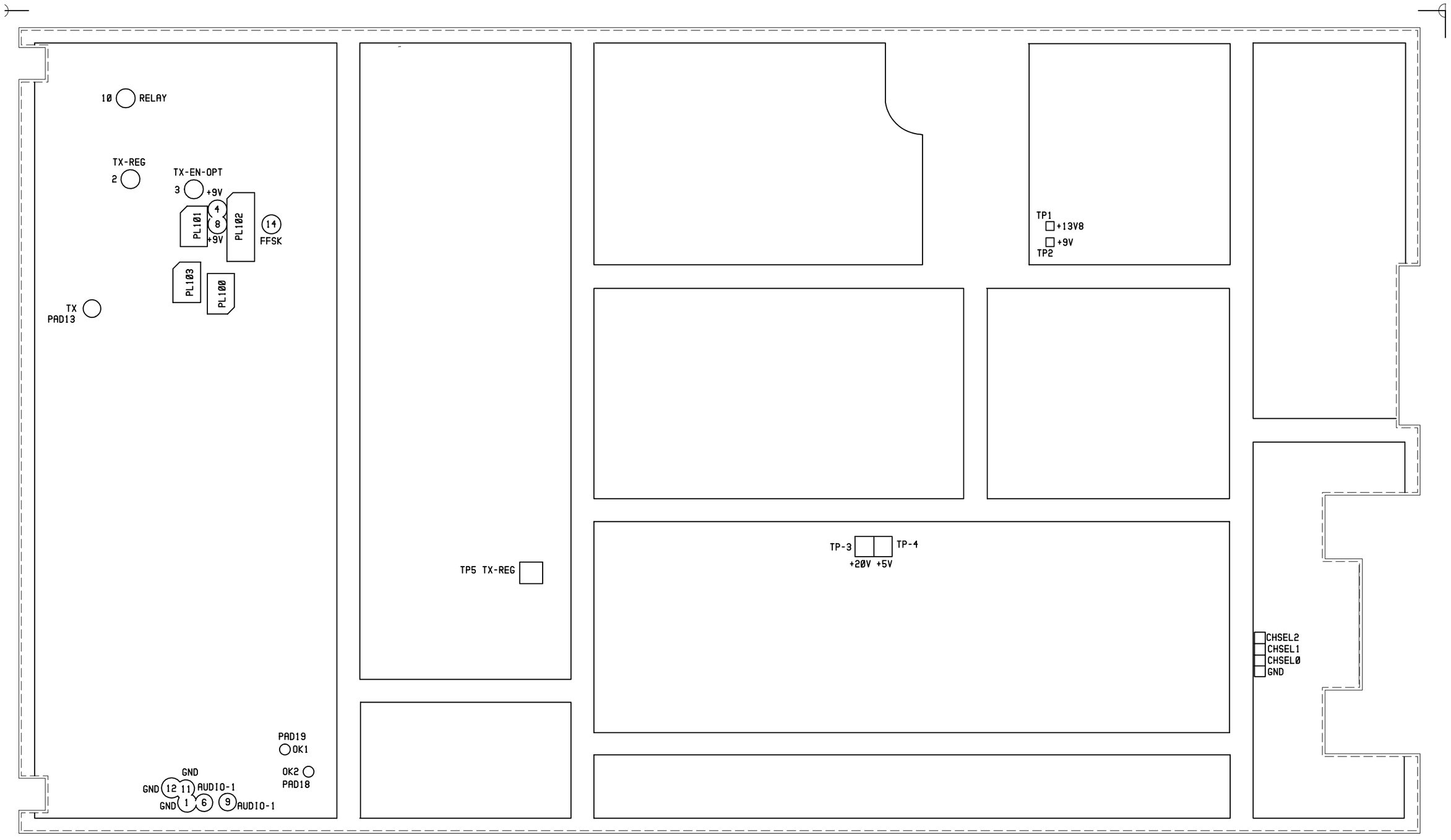
Copyright TEL



T857 PCB Layout
Bottom Side
220-01140-02

30/11/96

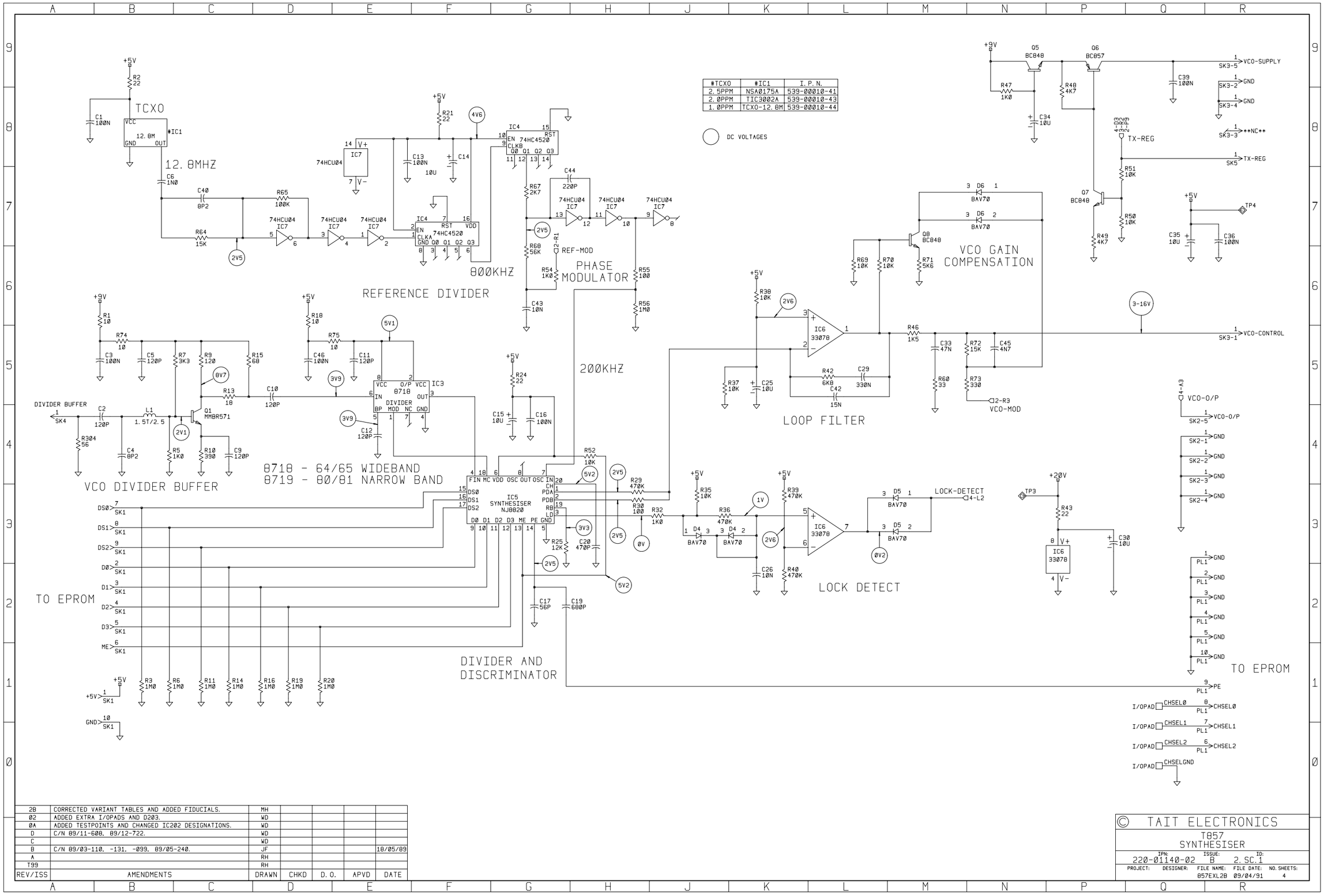
Copyright TEL



T857 Test Points & Options
Top Side
220-01140-02

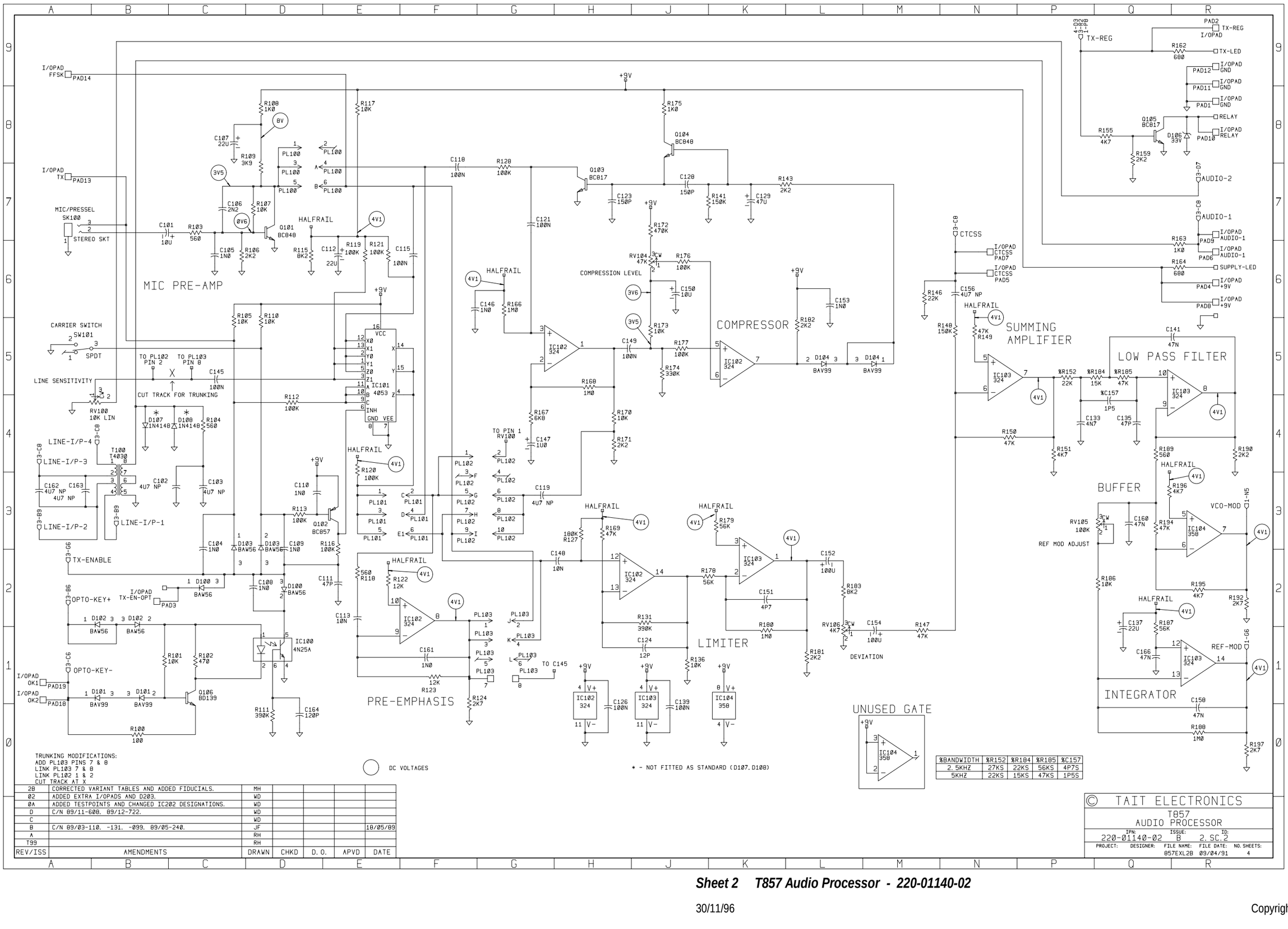
Copyright TEL

Copyright TEL



Sheet 1 T857 Synthesiser
220-01140-02

Copyright TEL



%BANDWIDTH	%R152	%R184	%R185	%C157
2.5KHZ	27KS	22KS	56KS	4P7S
5KHZ	22KS	15KS	47KS	1P5S

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH				
02	ADDED EXTRA I/OPADS AND D203.	WD				
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD				
D	C/N 89/11-608. 89/12-722.	WD				
C		WD				
B	C/N 89/03-110. -131. -099. 89/05-240.	JF				18/05/89
A		RH				
T99		RH				

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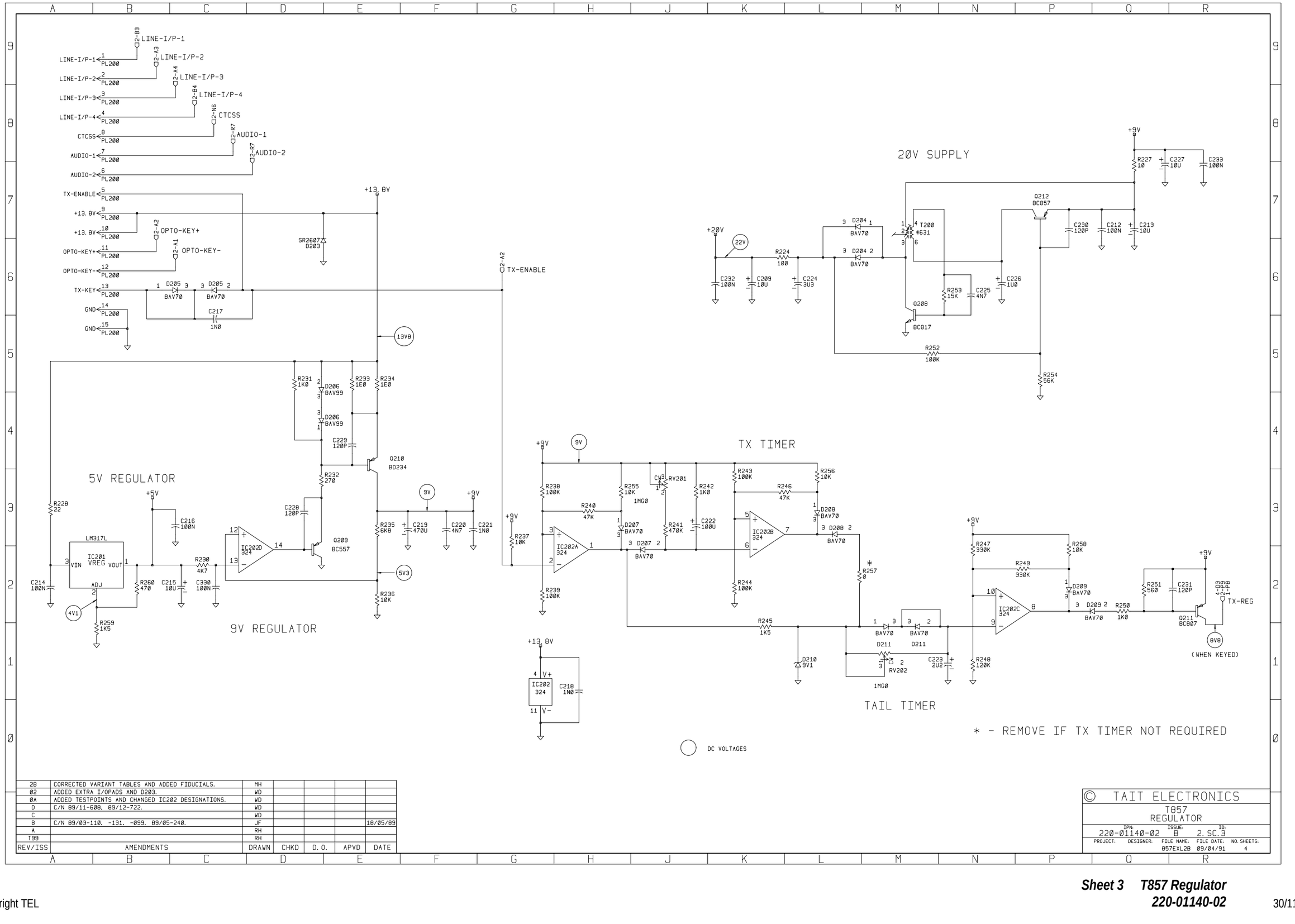
T857
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01140-02	B	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL2B	09/04/91	4

Sheet 2 T857 Audio Processor - 220-01140-02

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH				
02	ADDED EXTRA I/OPADS AND D203.	WD				
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD				
D	C/N 89/11-600. 89/12-722.	WD				
C		WD				
B	C/N 89/03-110. -131. -099. 89/05-240.	JF				10/05/89
A		RH				
T99		RH				

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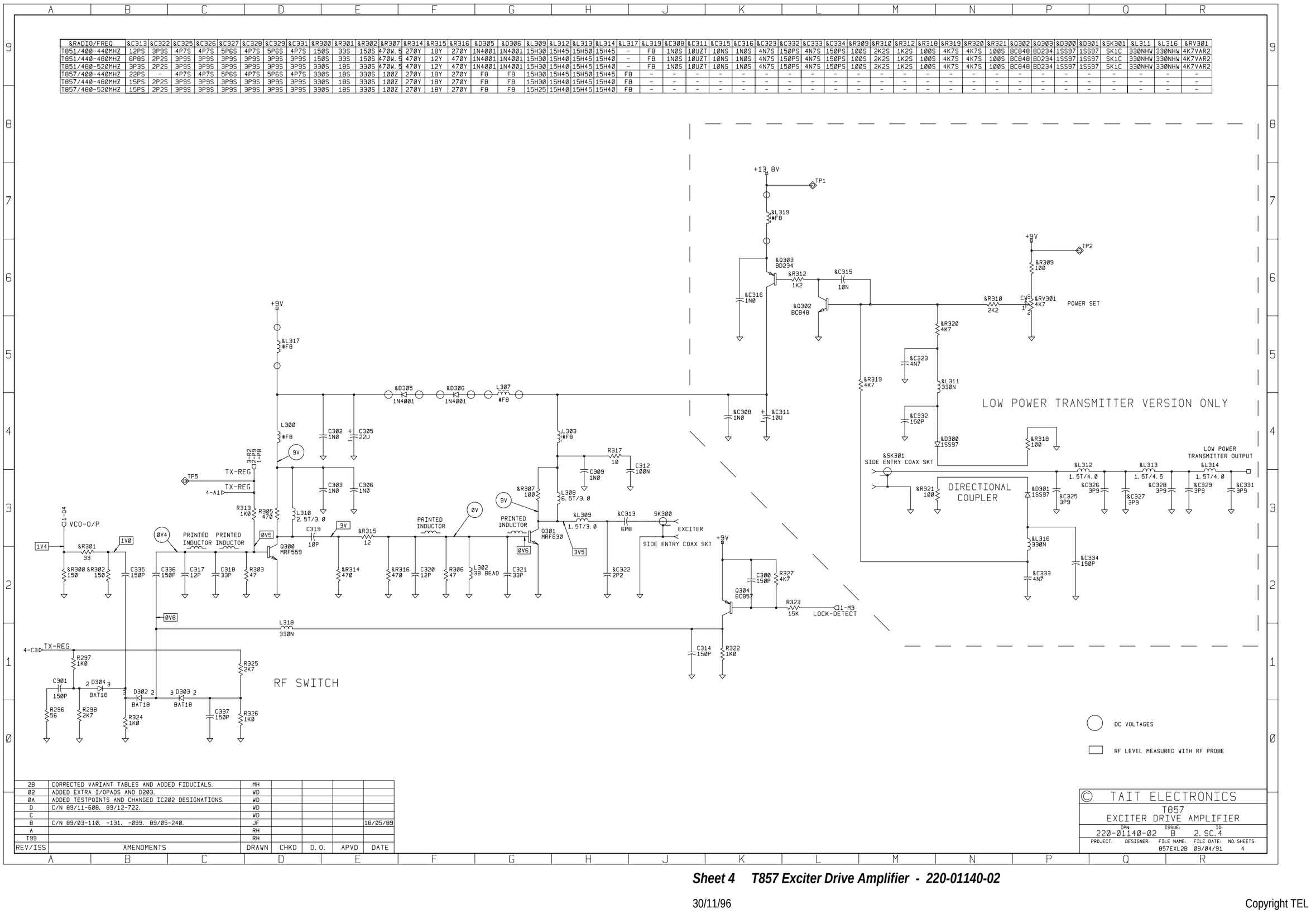
T857
REGULATOR

IPN:	ISSUE:	ID:
220-01140-02	B	2.SC.3

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL2B	89/04/91	4

Copyright TEL

&RADIO/FREQ	&C313	&C322	&C325	&C326	&C327	&C328	&C329	&C331	&R300	&R301	&R302	&R307	&R314	&R315	&R316	&D305	&D306	&L309	&L312	&L313	&L314	&L317	&L319	&C308	&C311	&C315	&C316	&C323	&C332	&C333	&C334	&R309	&R310	&R312	&R318	&R319	&R320	&R321	&Q302	&Q303	&D300	&D301	&SK301	&L311	&L316	&RV301
T851/400-440MHZ	12PS	3P9S	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	150S	33S	150S	470W.5	270Y	10Y	270Y	1N4001	1N4001	15H30	15H45	15H50	15H45	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
T851/440-480MHZ	6P8S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	150S	33S	150S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
T851/480-520MHZ	3P3S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	1SS97	1SS97	SK1C	330NHW	330NHW	4K7VAR2
T857/400-440MHZ	22PS	-	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	330S	18S	330S	100Z	270Y	10Y	270Y	F8	F8	15H30	15H45	15H50	15H45	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T857/440-480MHZ	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	10Y	270Y	F8	F8	15H30	15H40	15H45	15H40	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
T857/480-520MHZ	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	10Y	270Y	F8	F8	15H25	15H40	15H45	15H40	F8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH				
02	ADDED EXTRA I/OPADS AND D203.	WD				
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD				
D	C/N 89/11-600. 89/12-722.	WD				
C		WD				
B	C/N 89/03-110. -131. -099. 89/05-240.	JF				18/05/89
A		RH				
T99		RH				

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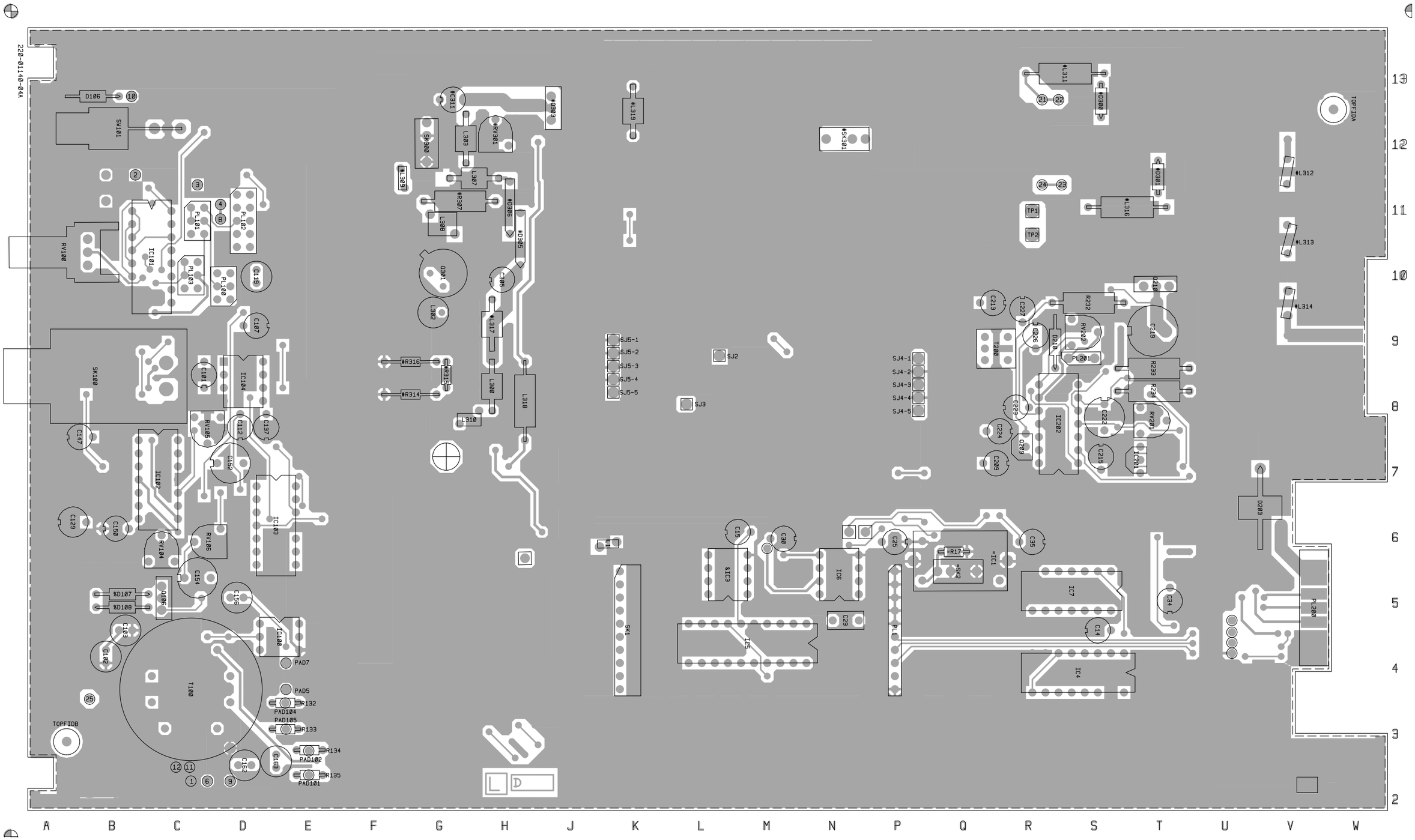
T857
EXCITER DRIVE AMPLIFIER

IPN:	ISSUE:	ID:
220-01140-02	B	2.SC.4

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		B57EXL2B	09/04/91	4

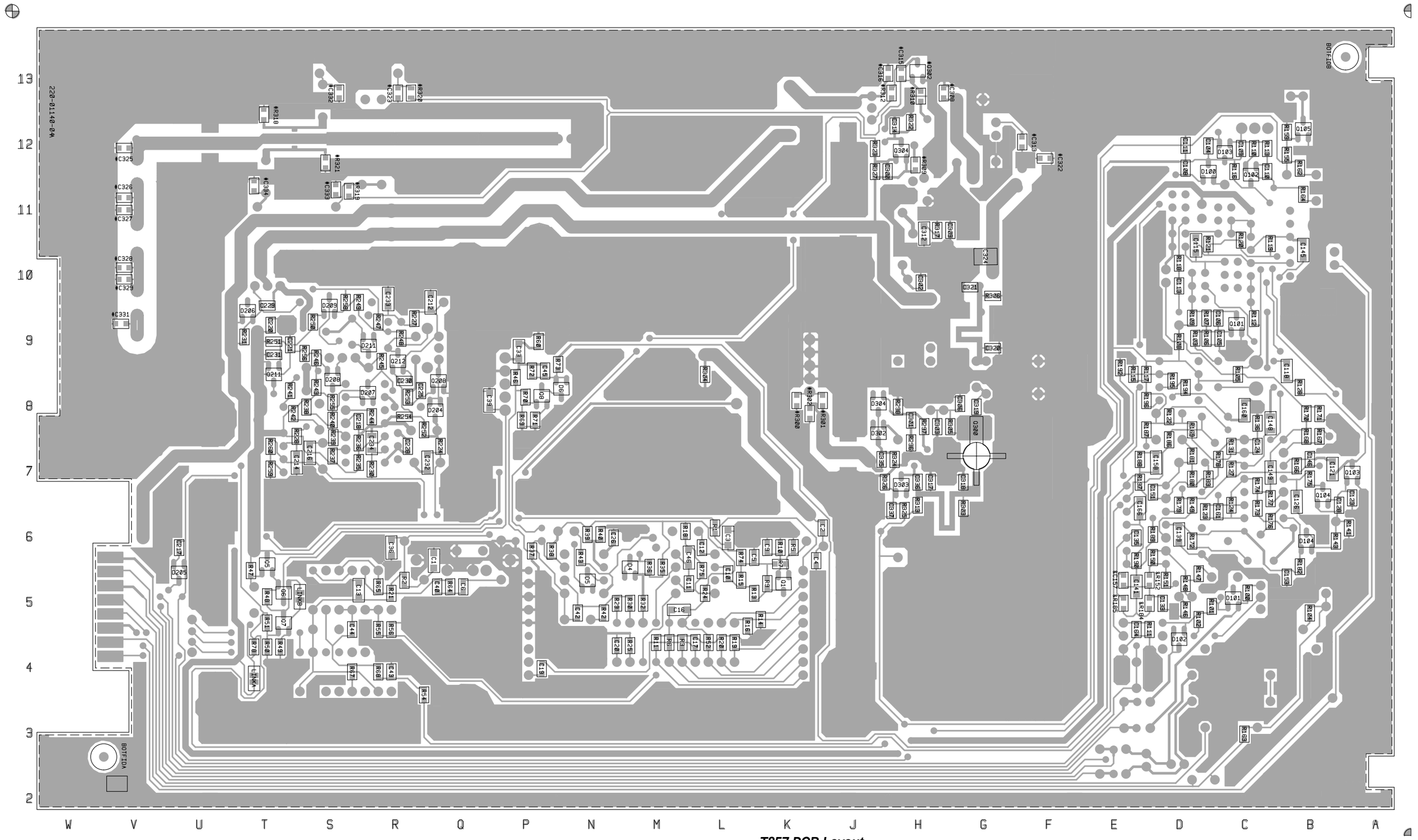
Sheet 4 T857 Exciter Drive Amplifier - 220-01140-02

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T857 PCB Layout
Top Side
220-01140-04

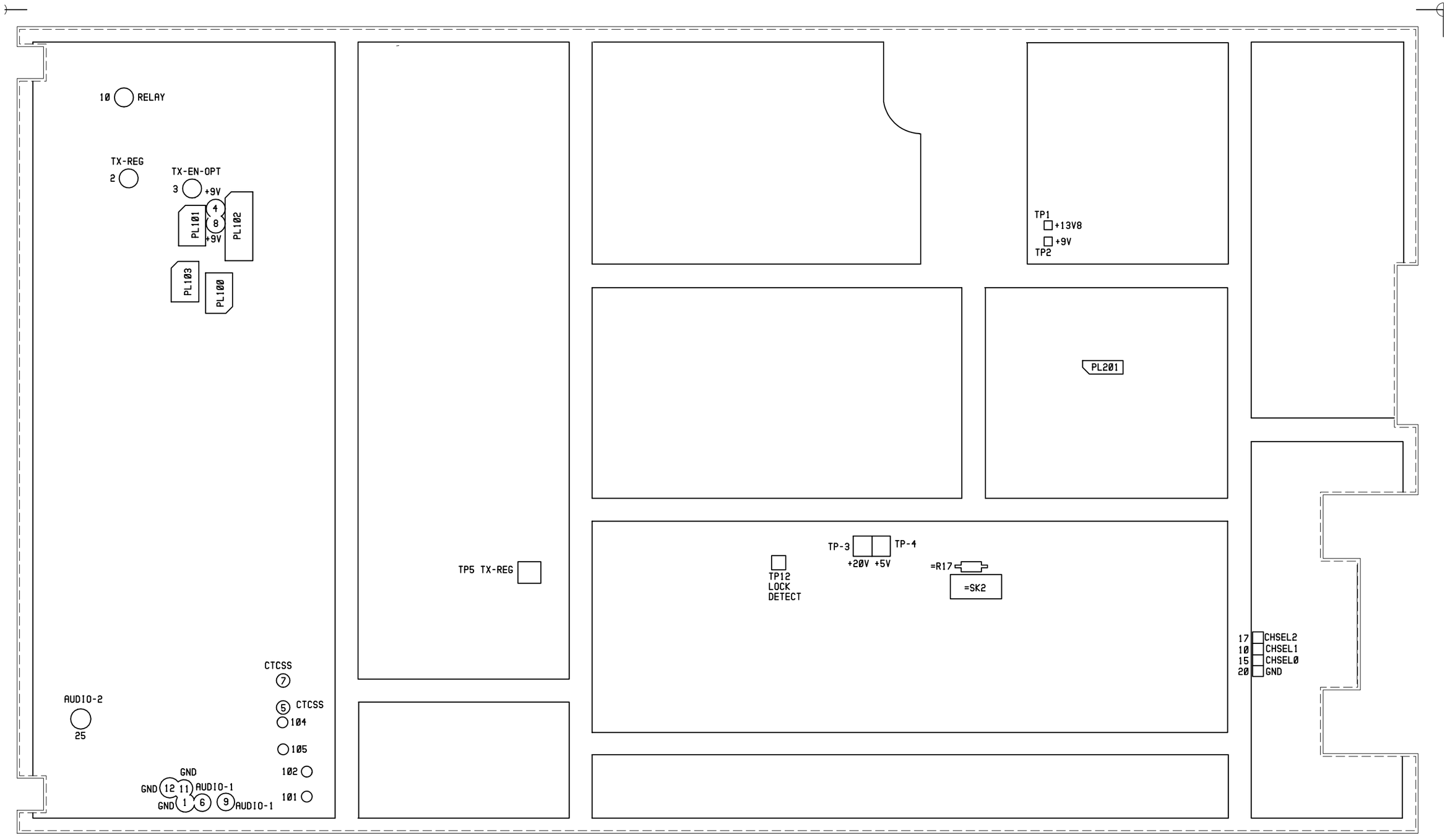
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T857 PCB Layout
Bottom Side
220-01140-04

30/11/96

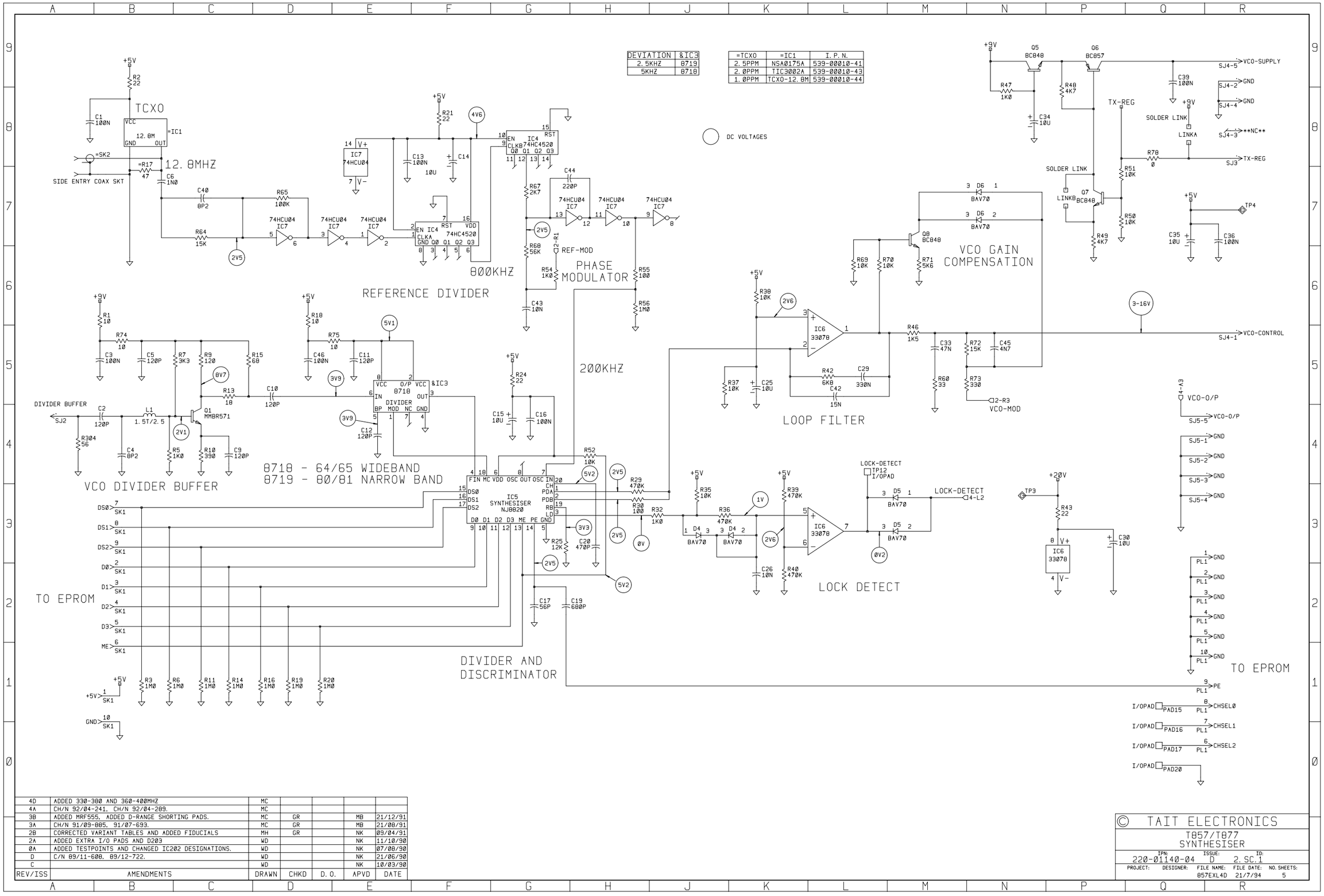
Copyright TEL



T857 Test Points & Options
Top Side
220-01140-04

Copyright TEL

Copyright TEL



Sheet 1 T857 Synthesiser
220-01140-04

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MIC PRE-AMP

HALFRAIL

COMPRESSION LEVEL

COMPRESSOR

SUMMING AMPLIFIER

LOW PASS FILTER

BUFFER

INTEGRATOR

LIMITER

PRE-EMPHASIS

DEVIATION

UNUSED GATE

NOT FITTED AS STANDARD (%D107, %D108)

DC VOLTAGES

&DEVIATION	&R152	&R184	&R185	&C157
2.5KHZ	27KS	22KS	56KS	4P7S
5KHZ	22KS	15KS	47KS	1P5S

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
4D	ADDED 330-380 AND 360-400MHZ	MC				
4A	CH/N 92/04-241. CH/N 92/04-289.	MC				
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR		MB	21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR		MB	21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR		NK	09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD			NK	11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			NK	07/08/90
D	C/N 89/11-608. 89/12-722.	WD			NK	21/06/90
C		WD			NK	18/05/89

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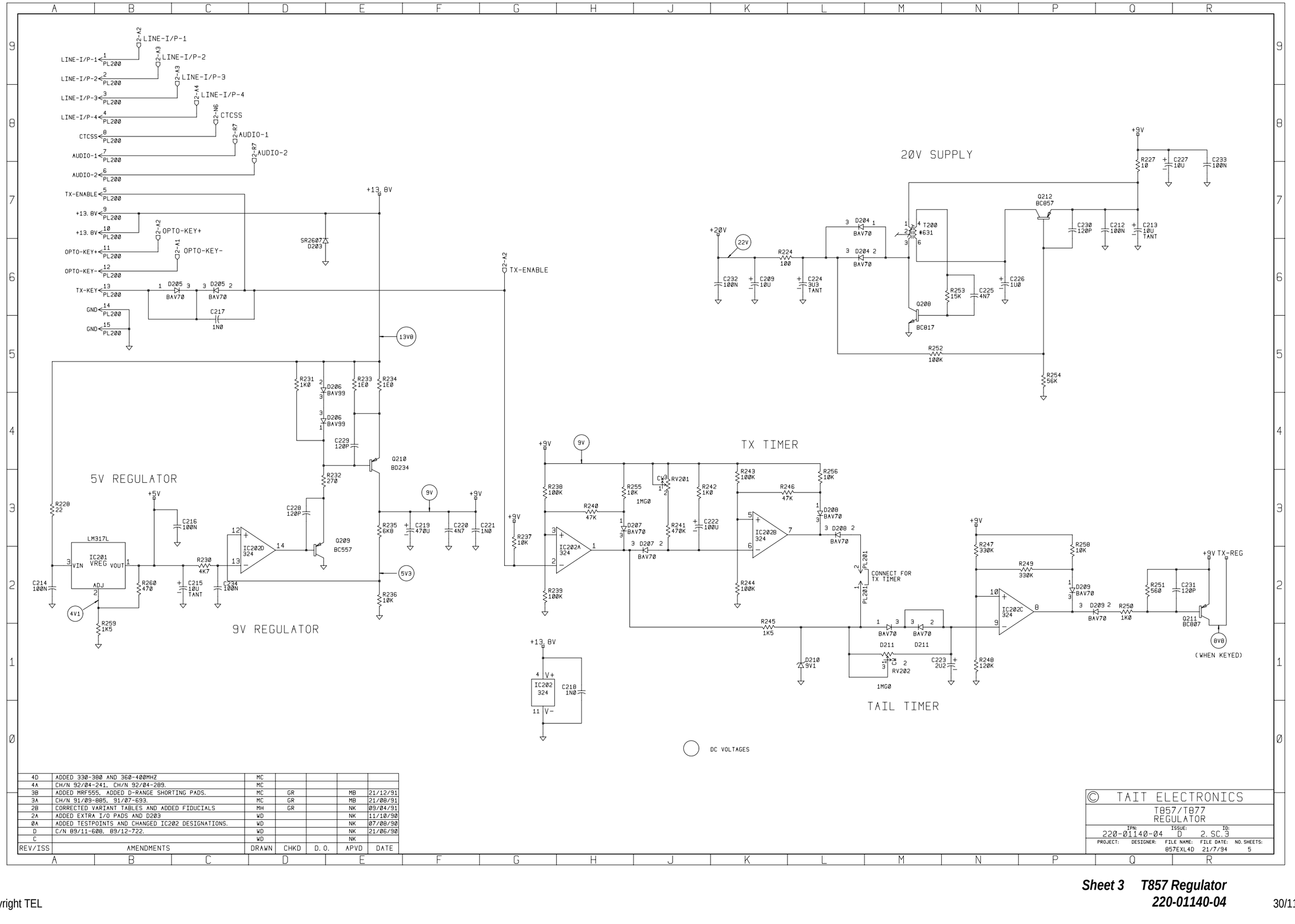
T857/T877
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01140-04	D	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL4D	21/7/94	5

Sheet 2 T857 Audio Processor - 220-01140-04

Copyright TEL



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
4D	ADDED 330-380 AND 360-400MHZ	MC				
4A	CH/N 92/04-241. CH/N 92/04-289.	MC				
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR		MB	21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR		MB	21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR		NK	09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD			NK	11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			NK	07/08/90
D	C/N 89/11-608. 89/12-722.	WD			NK	21/06/90
C		WD			NK	

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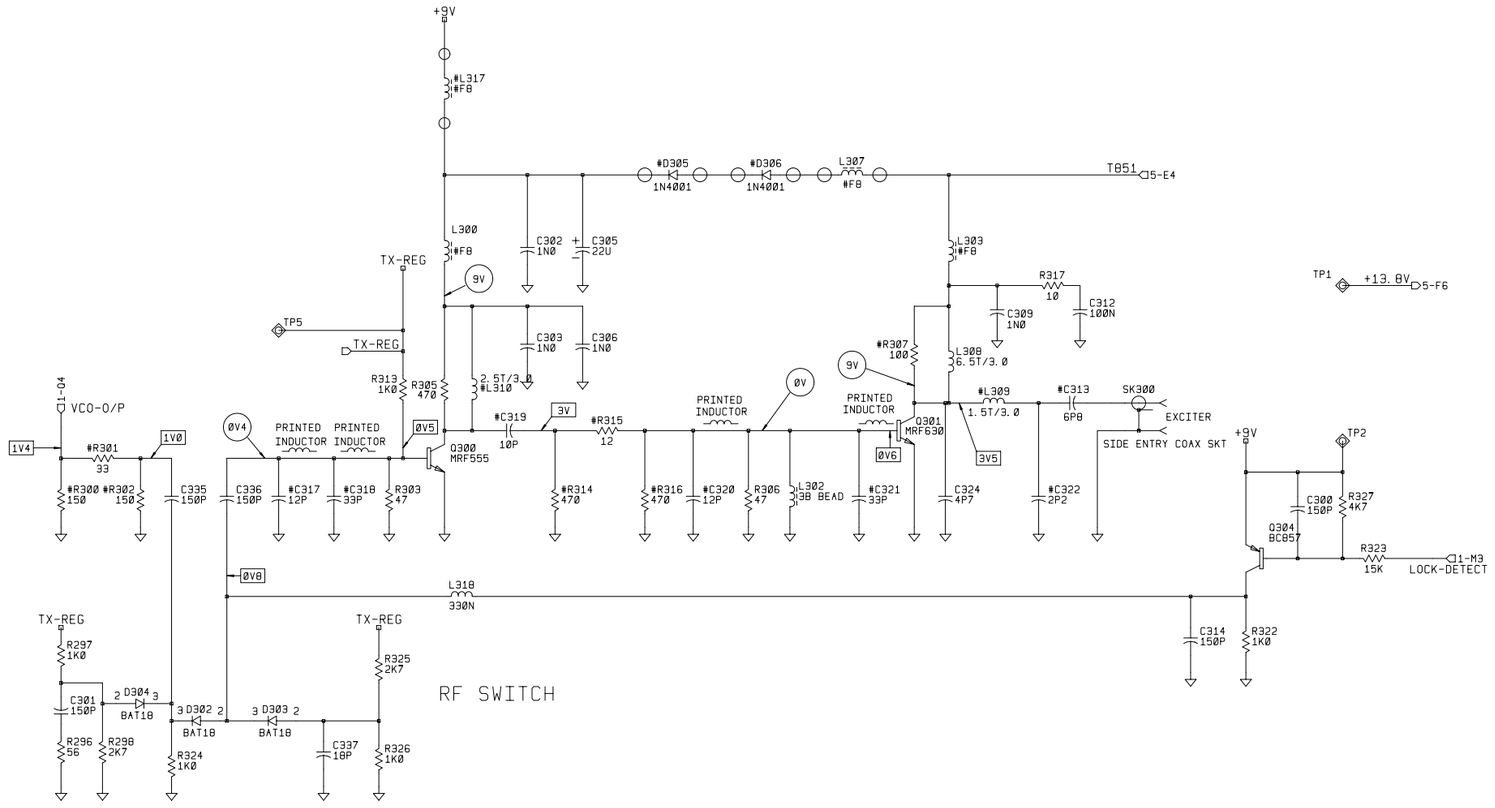
T857/T877
REGULATOR

IPN:	ISSUE:	ID:
220-01140-04	D	2.SC.3

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL4D	21/7/94	5

Copyright TEL

RADIO/FREQ	#C313	#C322	#D305	#D306	#R300	#R301	#R302	#R307	#R314	#R315	#R316	#L309	#L317	#C317	#C318	#C319	#C320	#C321	#L310
T851/400-440MHZ	12PS	3P9S	1N4001	1N4001	150S	33S	150S	470Z	270X	10X	270X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T851/440-480MHZ	6P8S	2P2S	1N4001	1N4001	150S	33S	150S	470Z	470X	12X	470X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T851/480-520MHZ	3P3S	2P2S	1N4001	1N4001	330S	18S	330S	470Z	470X	12X	470X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T857/400-440MHZ	22PS	-	F8	F8	330S	18S	330S	100Z	270X	10X	270X	15H30	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/440-480MHZ	15PS	2P2S	F8	F8	330S	18S	330S	100Z	270X	10X	270X	15H30	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/480-520MHZ	6P8S	3P3S	F8	F8	330S	18S	330S	100Z	270X	10X	270X	15H25	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/340-380MHZ	4P7S	5P6S	F8	F8	330S	18S	330S	100Z	150X	39X	150X	15H30	F8	18PS	-	150PS	18PS	39PS	330NHW
T857/300-330MHZ																			
T857/360-400MHZ																			



REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
4D	ADDED 330-380 AND 360-400MHZ	MC			NK	
4A	CH/N 92/04-241. CH/N 92/04-289.	MC	GR	DE	MB	12-2-92
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR		MB	21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR		MB	21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR		NK	09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD			NK	11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			NK	07/08/90
D	C/N 89/11-608. 89/12-722.	WD			NK	21/06/90
C		WD			NK	

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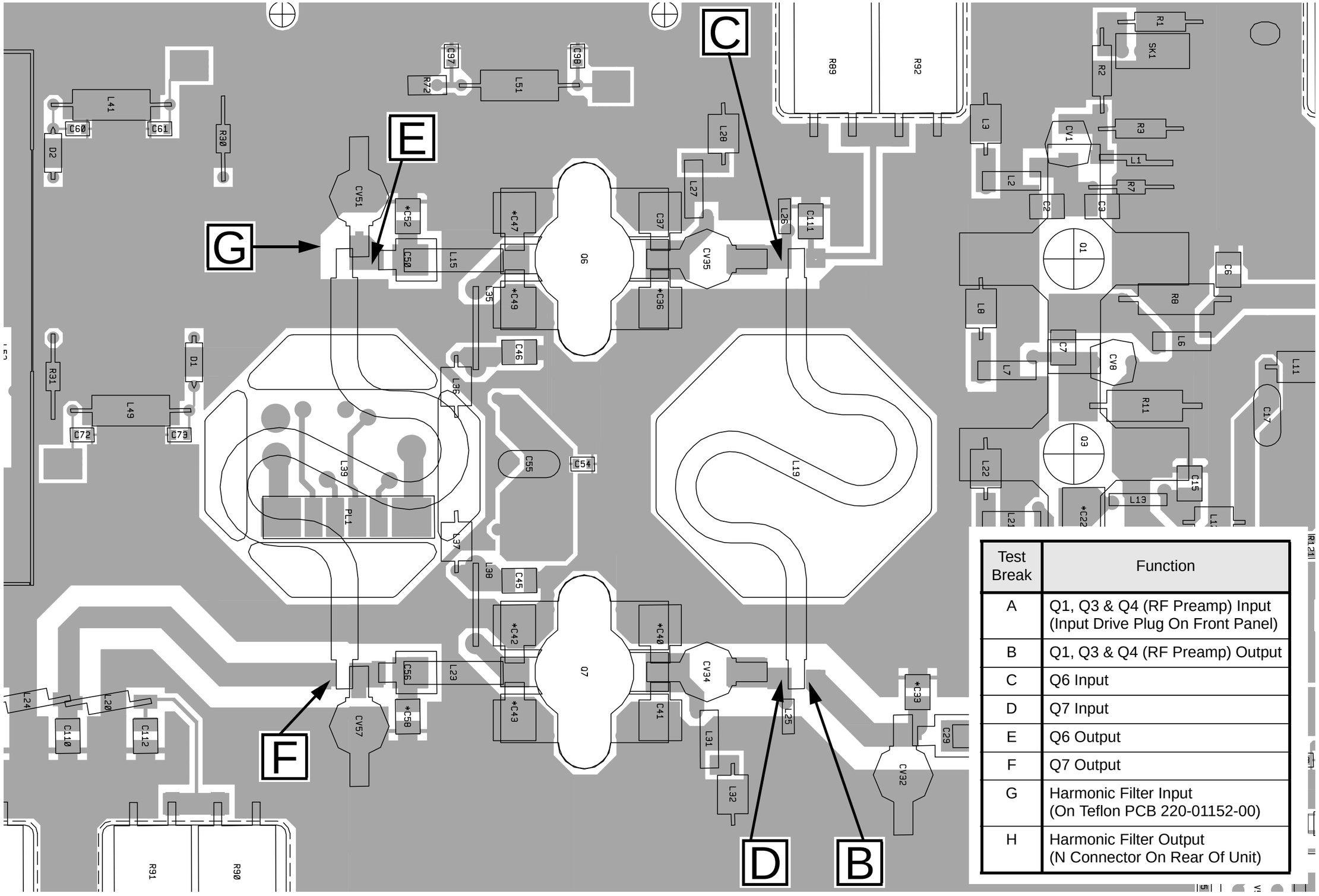
T857/I877
EXCITER DRIVE AMPLIFIER

IPN:	ISSUE:	ID:
220-01140-04	D	2.SC.4

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		857EXL4D	21/7/94	5

Sheet 4 T857 Exciter Drive Amplifier - 220-01140-04

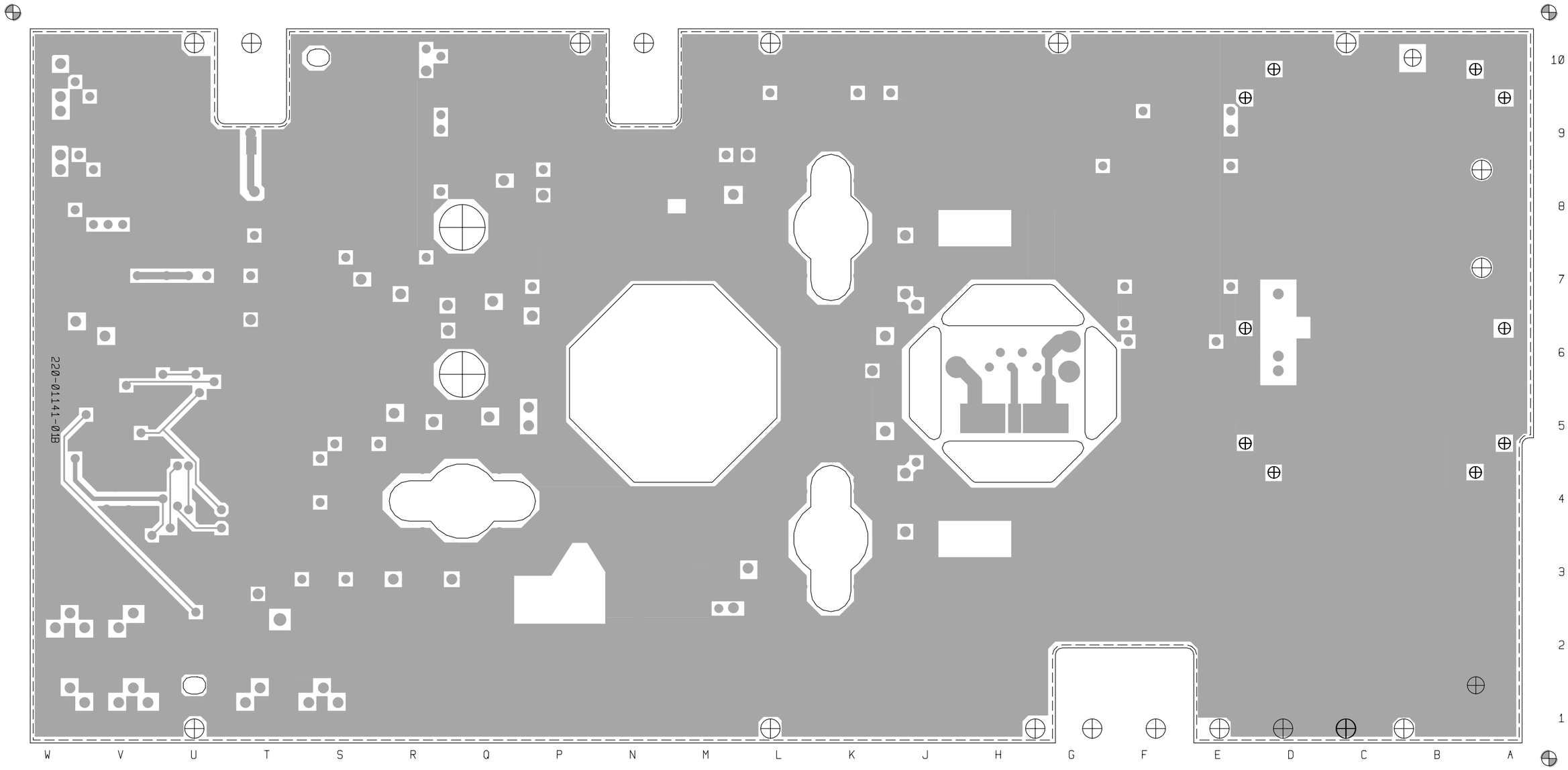
Copyright TEL



Test Break	Function
A	Q1, Q3 & Q4 (RF Preamp) Input (Input Drive Plug On Front Panel)
B	Q1, Q3 & Q4 (RF Preamp) Output
C	Q6 Input
D	Q7 Input
E	Q6 Output
F	Q7 Output
G	Harmonic Filter Input (On Teflon PCB 220-01152-00)
H	Harmonic Filter Output (N Connector On Rear Of Unit)

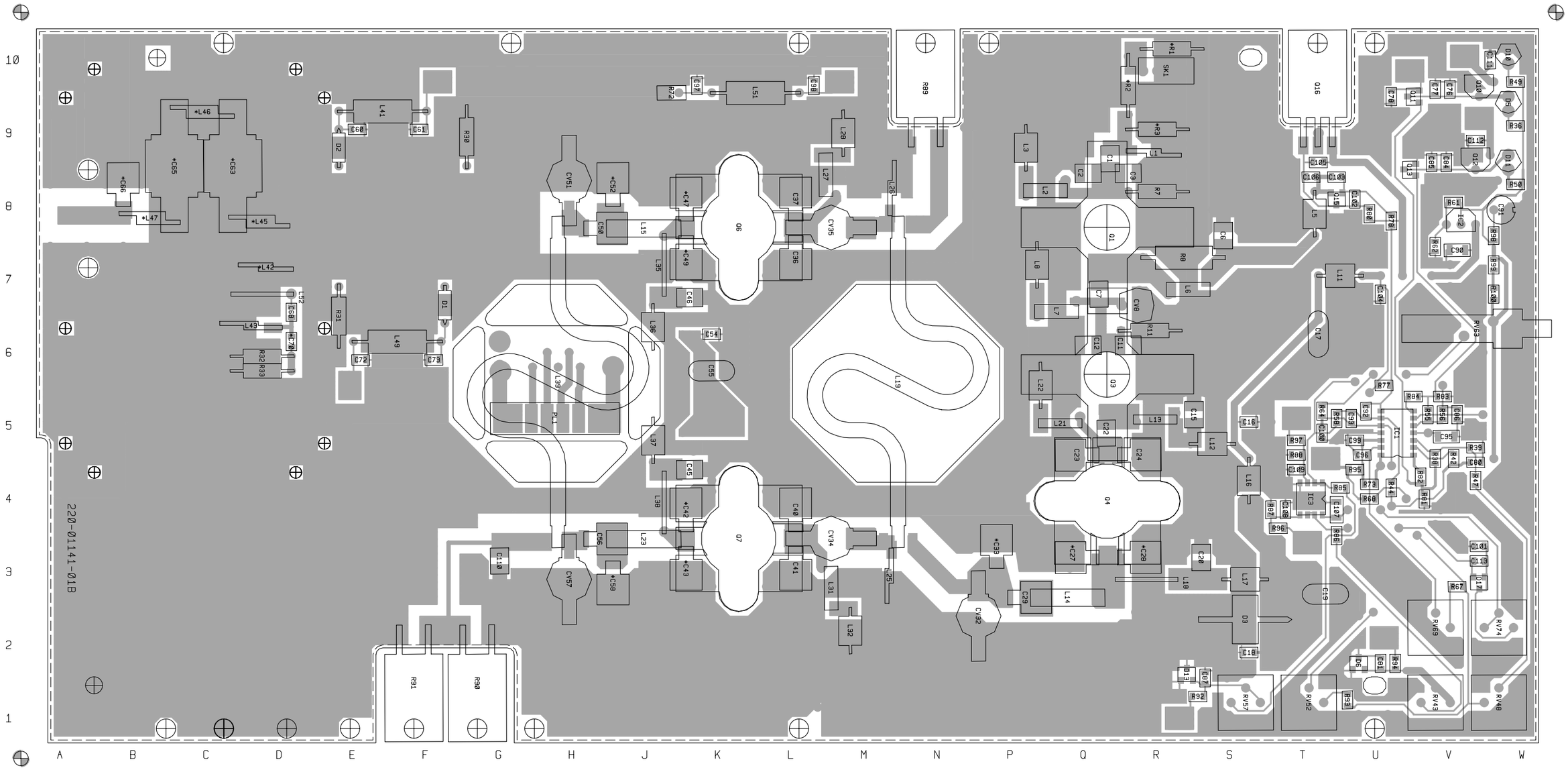
Figure 4.1 Test Break Point Location

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T858 PCB Layout
Bottom Side
220-01141-01

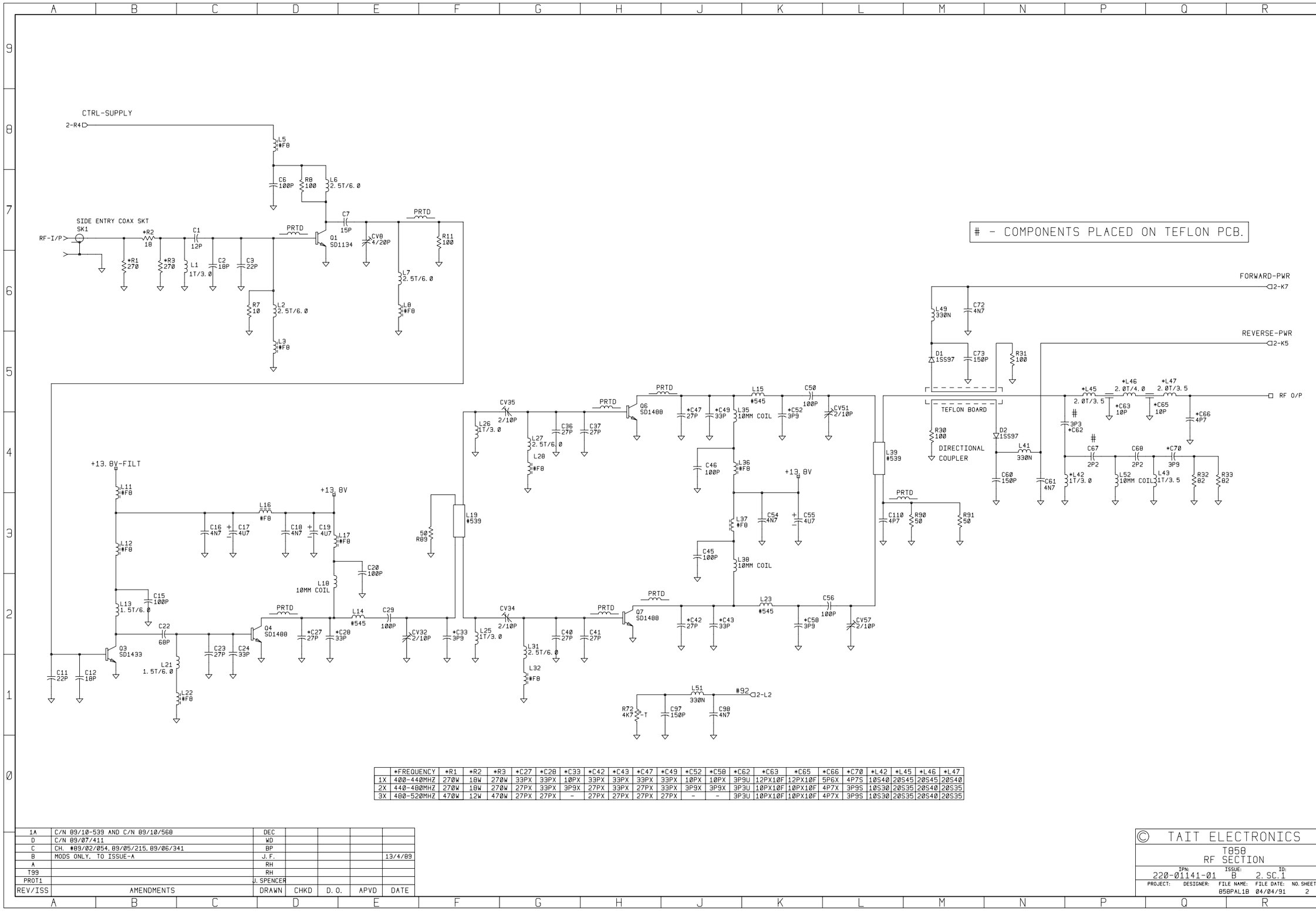
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T858 PCB Layout
Top Side
220-01141-01

30/11/96

Copyright TEL



	*FREQUENCY	*R1	*R2	*R3	*C27	*C28	*C33	*C42	*C43	*C47	*C49	*C52	*C58	*C62	*C63	*C65	*C66	*C70	*L42	*L45	*L46	*L47
1X	400-440MHZ	270W	18W	270W	33PX	33PX	10PX	33PX	33PX	33PX	33PX	10PX	10PX	3P3U	12PX10F	12PX10F	5P6X	4P7S	10S40	20S45	20S45	20S40
2X	440-480MHZ	270W	18W	270W	27PX	33PX	3P9X	27PX	33PX	27PX	33PX	3P9X	3P9X	3P3U	10PX10F	10PX10F	4P7X	3P9S	10S30	20S35	20S40	20S35
3X	480-520MHZ	470W	12W	470W	27PX	27PX	-	27PX	27PX	27PX	27PX	-	-	3P3U	10PX10F	10PX10F	4P7X	3P9S	10S30	20S35	20S40	20S35

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
1A	C/N 89/10-539 AND C/N 89/10/568	DEC				
D	C/N 89/07/411	WD				
C	CH. #89/02/054, 89/05/215, 89/06/341	BP				
B	MODS ONLY. TO ISSUE-A	J.F.				13/4/89
A		RH				
T99		RH				
PROT1		J.SPENCER				

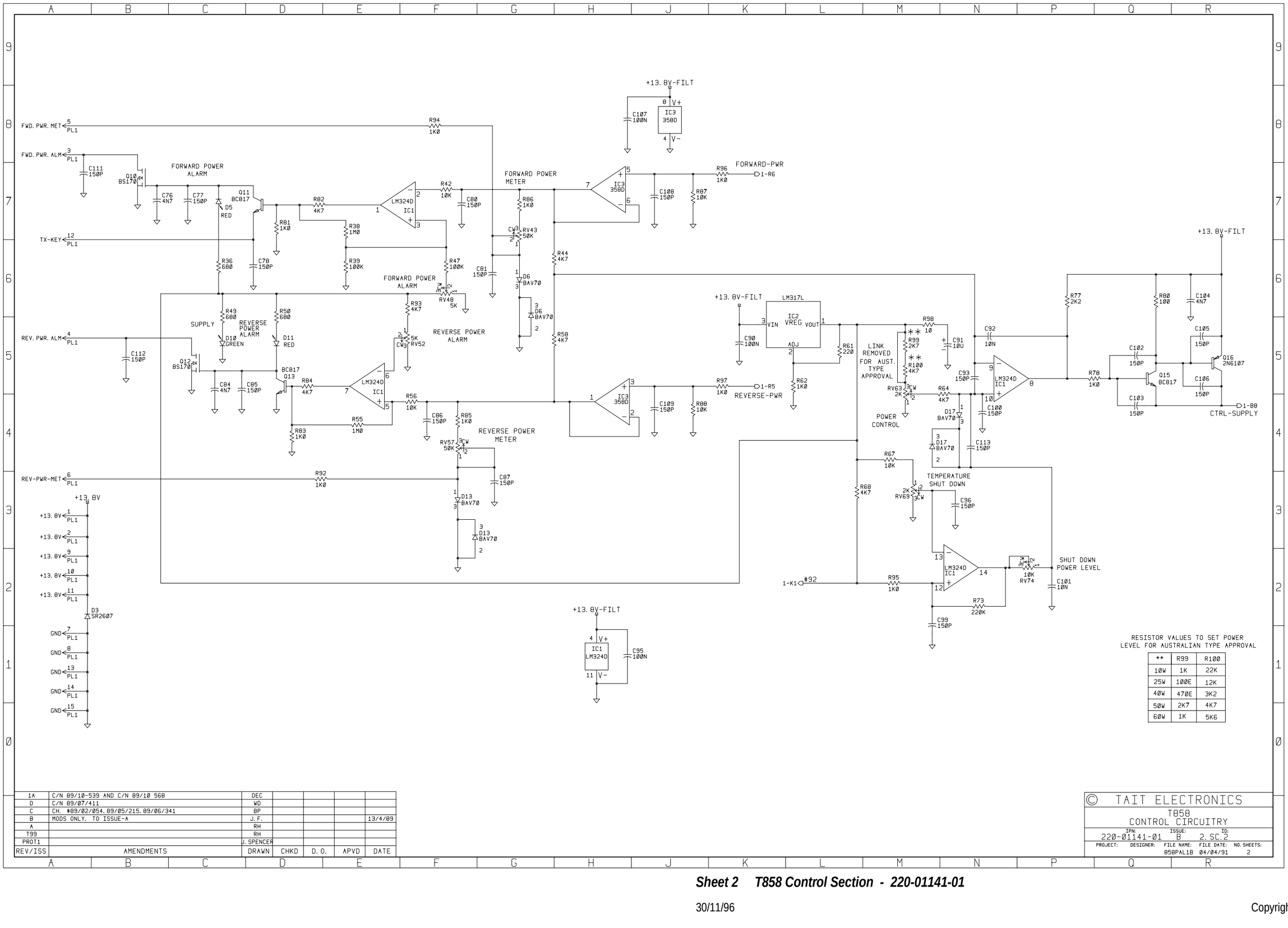
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T858
RF SECTION

IPN:	ISSUE:	ID:
220-01141-01	B	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:
		858PAL1B	04/04/91	2

Copyright TEL



RESISTOR VALUES TO SET POWER LEVEL FOR AUSTRALIAN TYPE APPROVAL

**	R99	R100
10W	1K	22K
25W	100E	12K
40W	470E	3K2
50W	2K7	4K7
60W	1K	5K6

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
1A	C/N 89/10-539 AND C/N 89/10 560	DEC				
D	C/N 89/07/411	WD				
C	CH. #89/02/054, 89/05/215, 89/06/341	BP				
B	MODS ONLY. TO ISSUE-A	J.F.				13/4/89
A		RH				
T99		RH				
PROT1		J.SPENCER				

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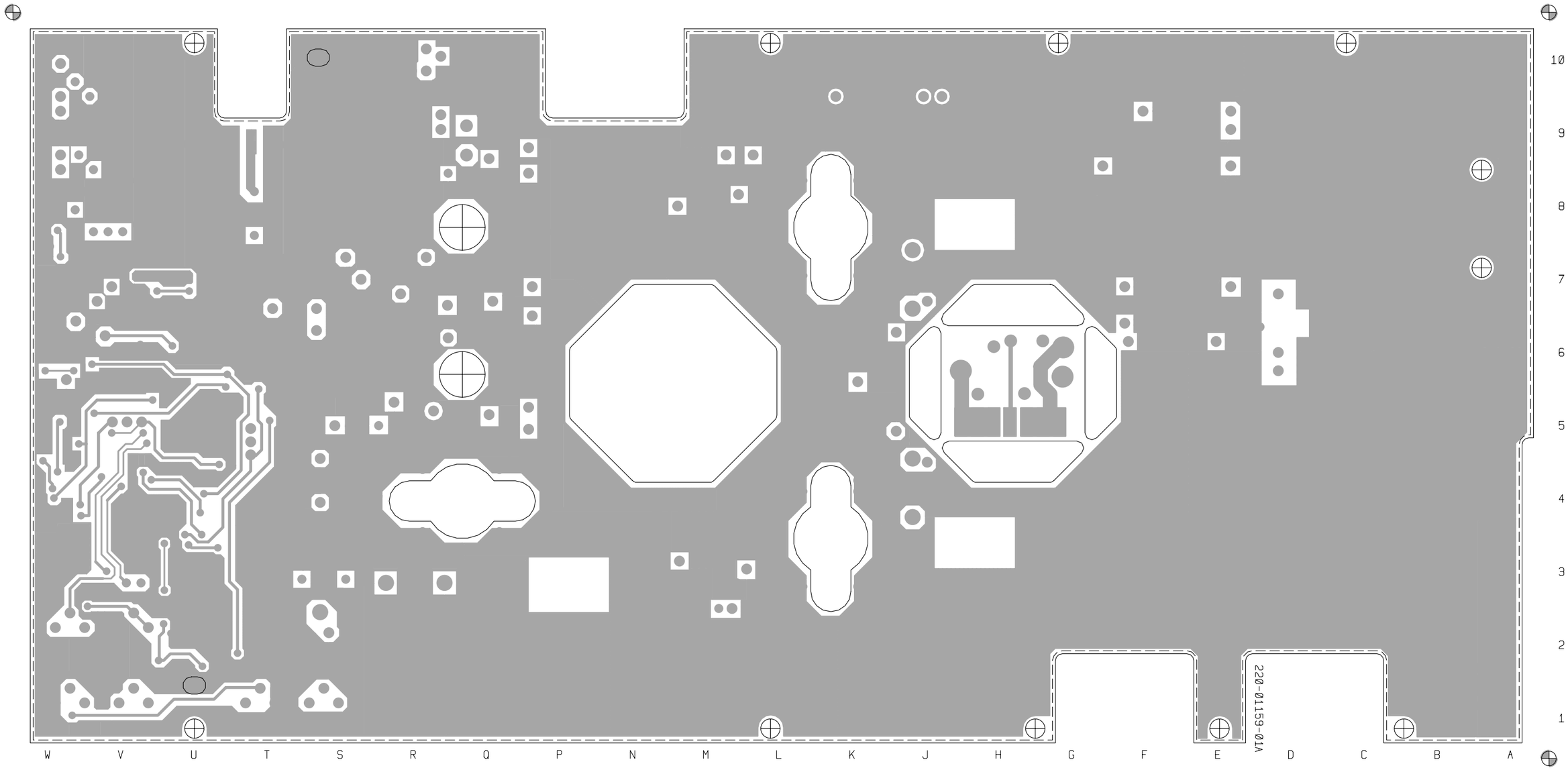
T858
CONTROL CIRCUITRY

IPN:	ISSUE:	ID:
220-01141-01	B	2.SC.2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		B58PAL1B	04/04/91	2

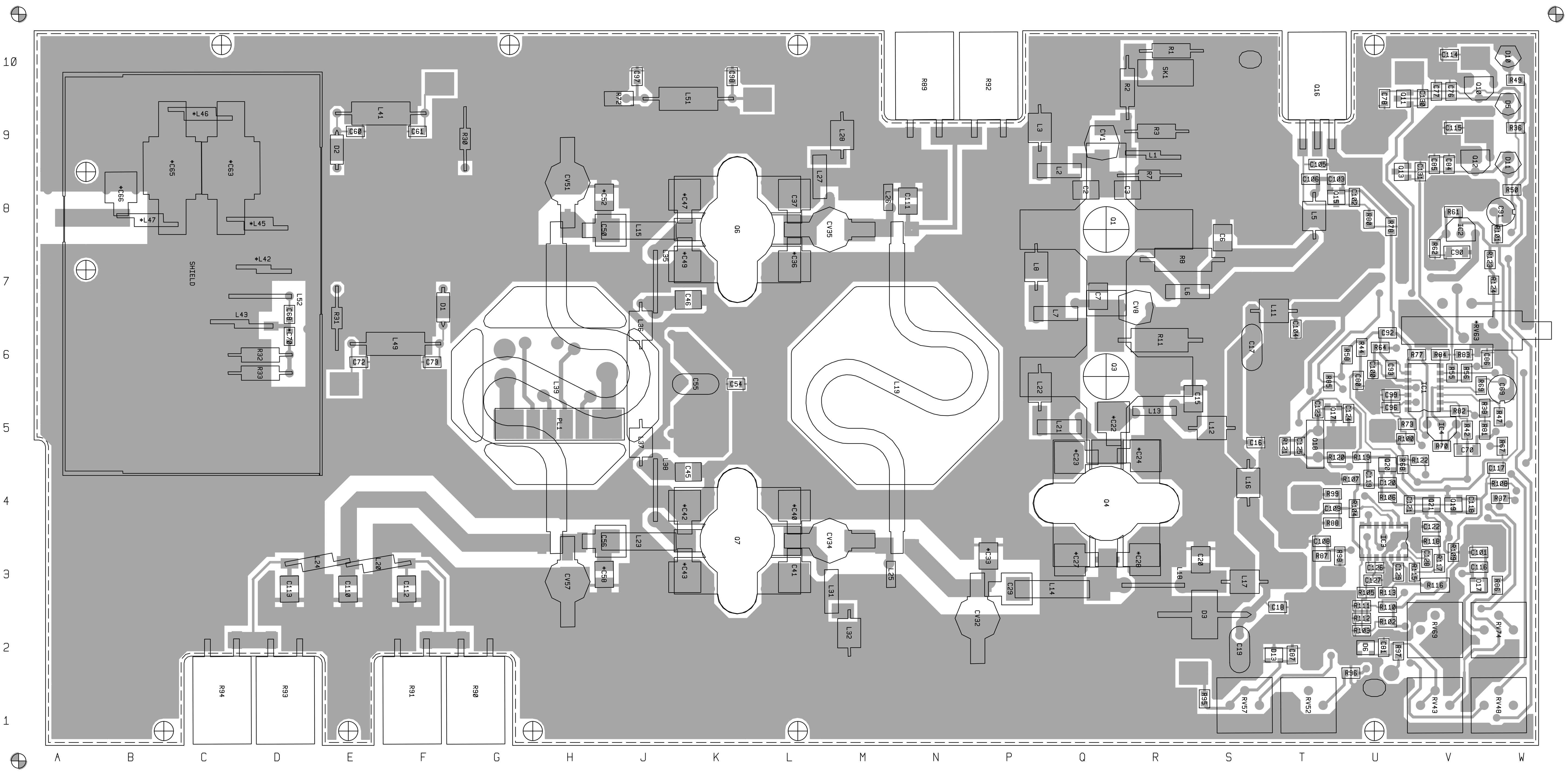
Sheet 2 T858 Control Section - 220-01141-01

Copyright TEL



T859 PCB Layout
Bottom Side
220-01159-01

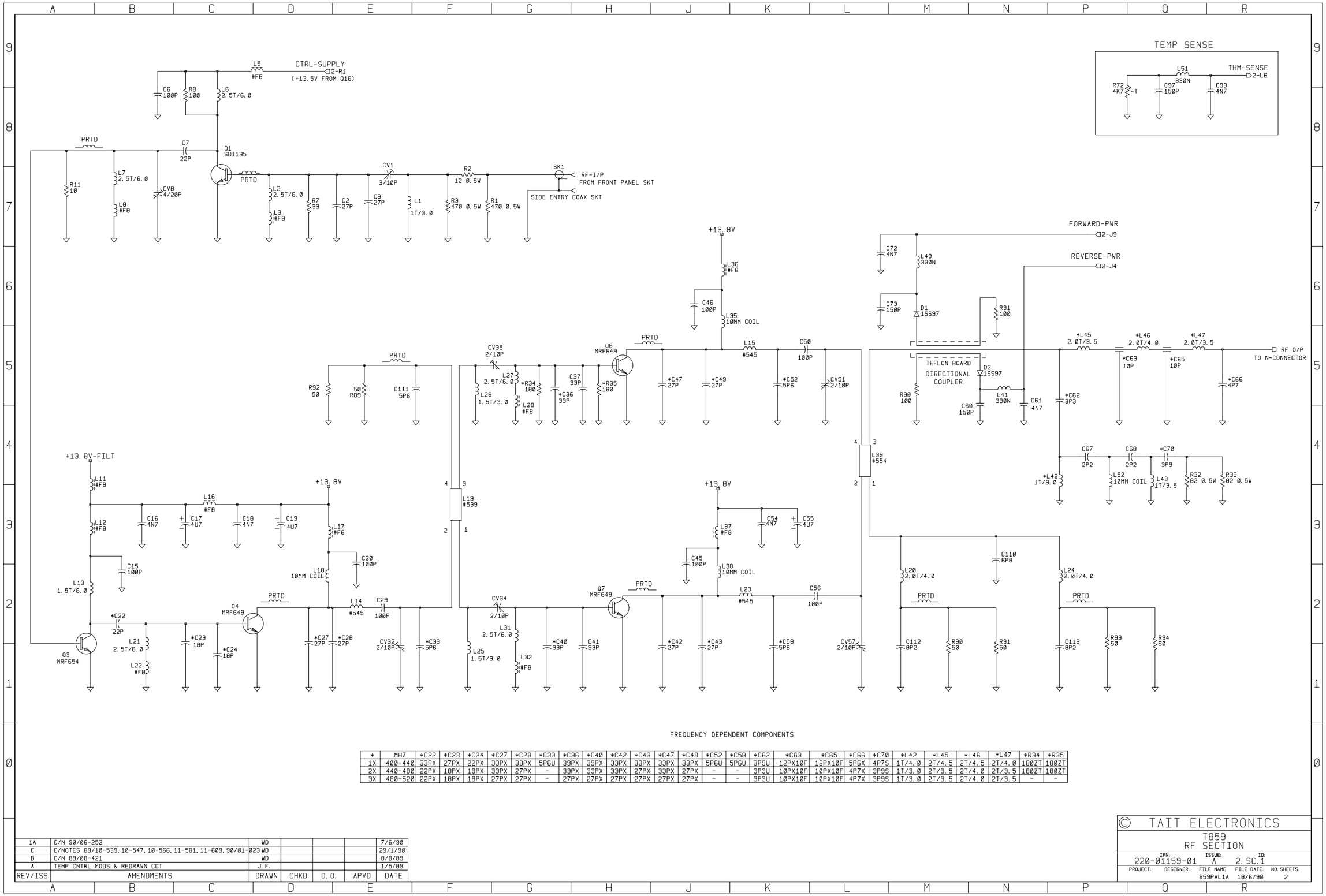
Copyright TEL



T859 PCB Layout
Top Side
220-01159-01

30/11/96

Copyright TEL



FREQUENCY DEPENDENT COMPONENTS

*	MHZ	*C22	*C23	*C24	*C27	*C28	*C33	*C36	*C40	*C42	*C43	*C47	*C49	*C52	*C58	*C62	*C63	*C65	*C66	*C70	*L42	*L45	*L46	*L47	*R34	*R35
1X	400-440	33PX	27PX	22PX	33PX	33PX	5P6U	39PX	39PX	33PX	33PX	33PX	33PX	5P6U	5P6U	3P3U	12PX10F	12PX10F	5P6X	4P7S	1T/4.0	2T/4.5	2T/4.5	2T/4.0	180ZT	180ZT
2X	440-480	22PX	18PX	18PX	33PX	27PX	-	33PX	33PX	33PX	27PX	33PX	27PX	-	-	3P3U	10PX10F	10PX10F	4P7X	3P9S	1T/3.0	2T/3.5	2T/4.0	2T/3.5	180ZT	180ZT
3X	480-520	22PX	18PX	18PX	27PX	27PX	-	27PX	27PX	27PX	27PX	27PX	27PX	-	-	3P3U	10PX10F	10PX10F	4P7X	3P9S	1T/3.0	2T/3.5	2T/4.0	2T/3.5	-	-

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
1A	C/N 90/06-252	WD				7/6/90
C	C/NOTES 89/10-539.10-547.10-566.11-581.11-609.90/01-023	WD				29/1/90
B	C/N 89/08-421	WD				8/8/89
A	TEMP CNTRL MODS & REDRAWN CCT	J.F.				1/5/89

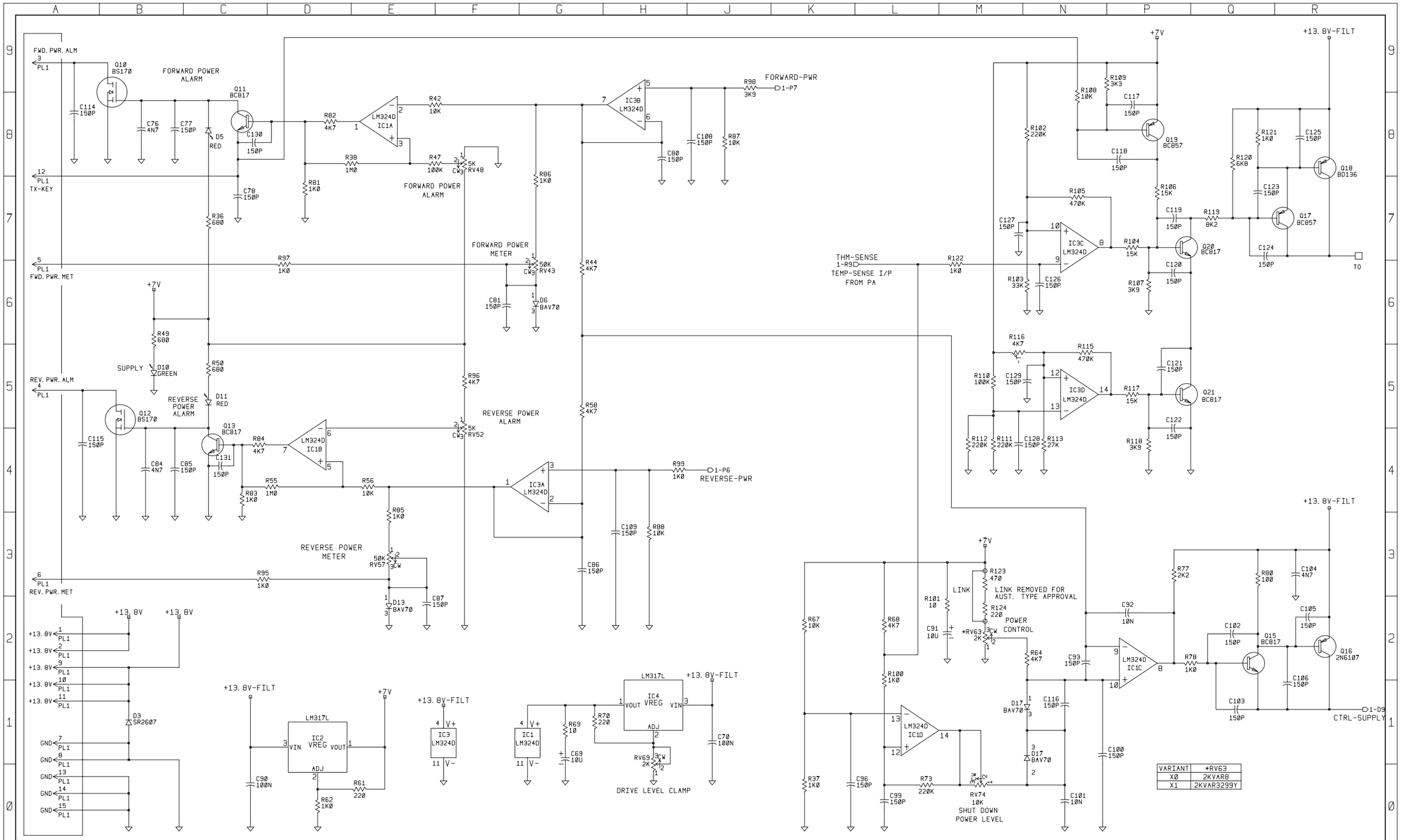
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T859
RF SECTION

IPN:	ISSUE:	ID:
220-01159-01	A	2.SC.1

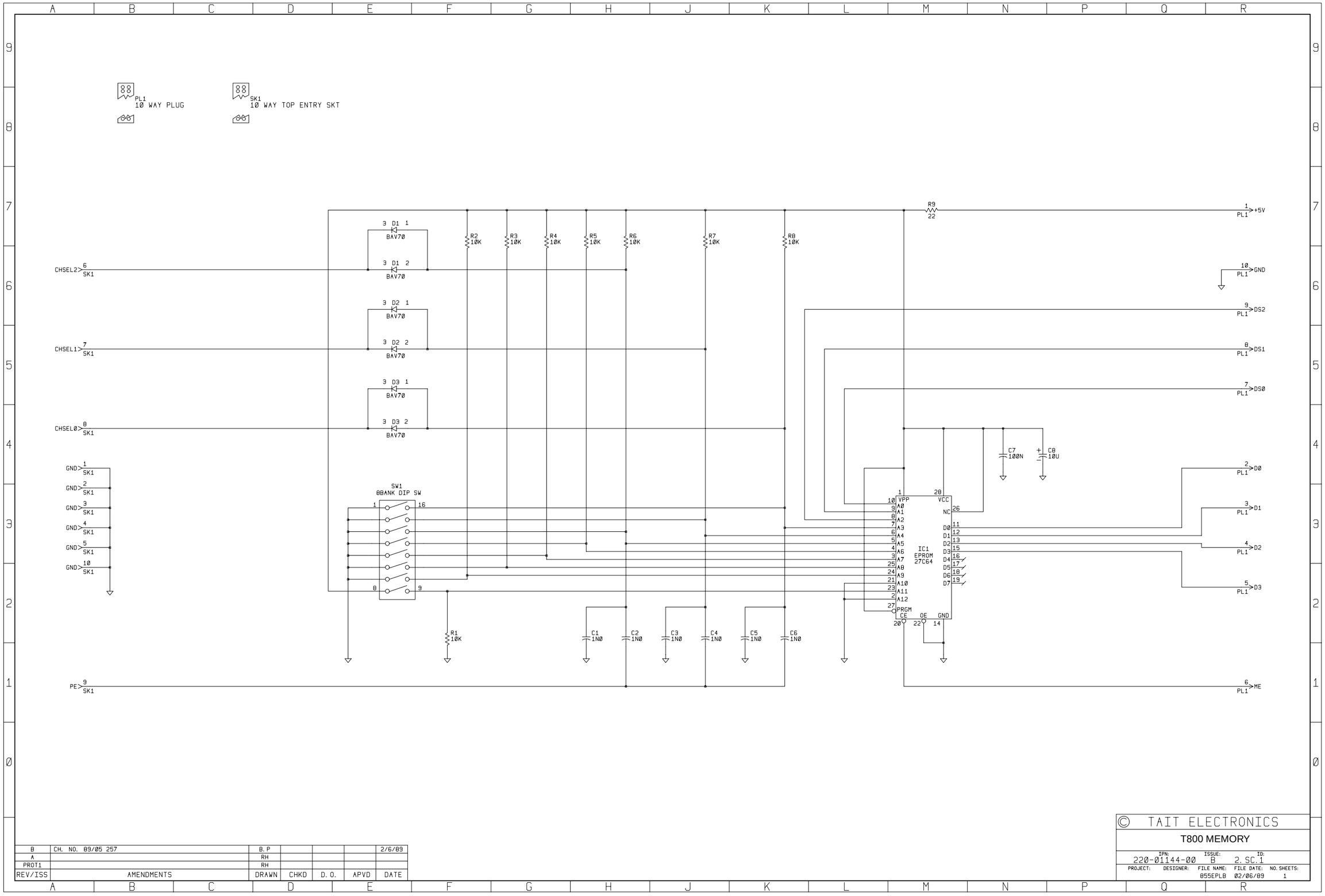
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		859PAL1A	10/6/90	2

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REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
B	CH. NO. 89/05 257	B. P				2/6/89
A		RH				
PROT1		RH				

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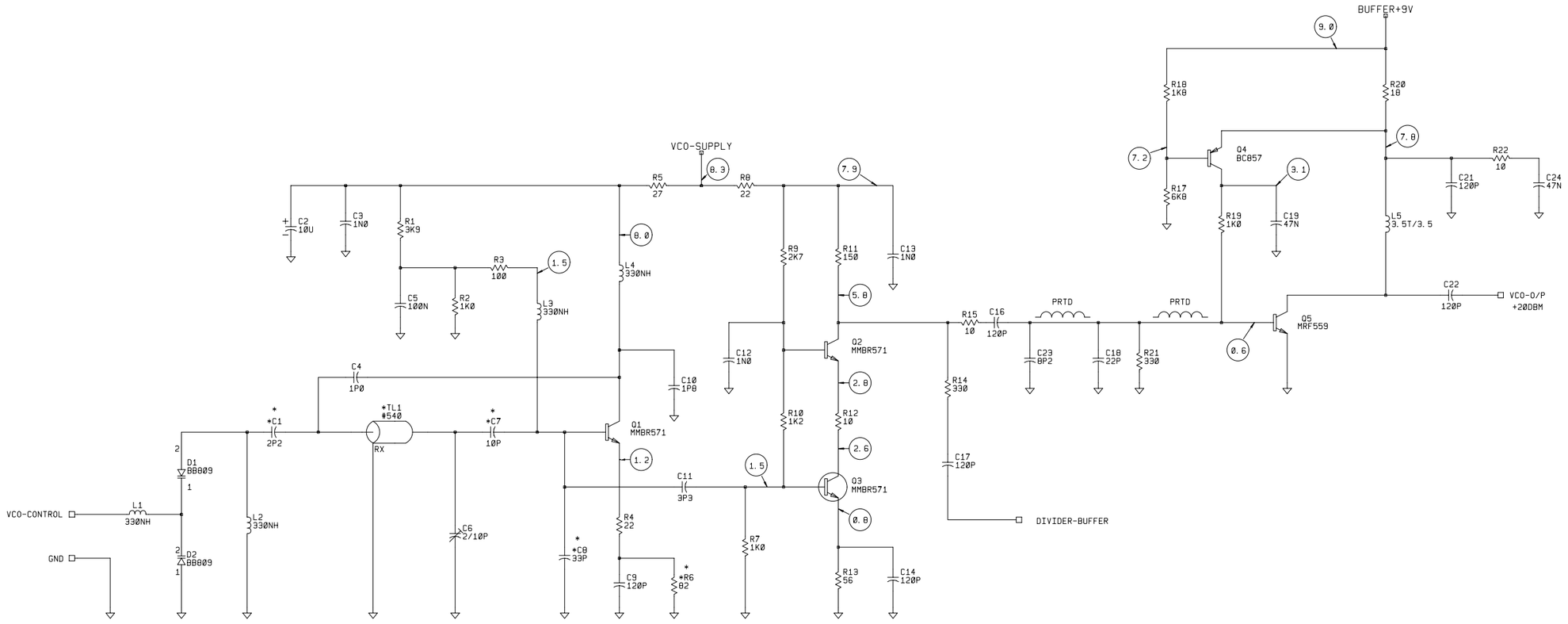
T800 MEMORY

IPN:	ISSUE:	ID:
220-01144-00	B	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		855EPLB	02/06/89	1

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*FREQ	*TL1	*C1	*C7	*C8	*R6
480-520	543	1P5S	6P8S	27PS	82S
435-480	542	1P8S	4P7S	27PS	82S
395-440	541	2P2S	6P8S	33PS	82S
355-395	540	2P2S	10PS	33PS	100S



*-VALUE CHANGES FOR DIFFERENT OPTIONS

○ = D.C. CONDITIONS (VOLTS)
(USE HIGH IMPEDENCE PROBE)

TABLE OF OSCILLATOR OPTIONS

OPTION	F MHZ	TL1 IPN NO.	TL1 LENGTH (MM)	C1	C7	C8	R6
TX HIGH	480-520	051-00005-43	100	1P5F	6P8F	27PF	82R
TX MID / RX HIGH	435-480	051-00005-42	120	1P8F	4P7F	27PF	82R
TX LOW / RX MID	395-440	051-00005-41	130	2P2F	6P8F	33PF	100R
RX LOW	355-395	051-00005-40	145	2P2F	10PF	33PF	100R

LAYOUT FOR RX LOW

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
0C	CAD-WANG COMPARISION.	MC				
B	C/N 89/05-218	J.F.				17/5/89
A		RH				
T99		RH				
PROT1		RH				

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T855/T857
BIPOLAR VCO

IPN:	ISSUE:	ID:
220-01145-00	C	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		855VCL0C	22/06/93	1

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*FREQ	*TL1	*C1	*C7	*C8	*R6	*C4	*C10
480-520	543	1P5S	6P8S	27PS	82S	1P0S	1P0S
435-480	542	1P8S	4P7S	27PS	82S	1P0S	1P0S
395-440	541	2P2S	6P8S	33PS	82S	1P0S	1P0S
355-395	540	2P2S	8P2S	33PS	120S	1P0S	1P0S
340-380	540	2P7S	12PS	33PS	150S	1P2S	2P7S

PL3 1 PIN PLUG

PL2 1 PIN PLUG

PL4 5 PLUG PINS

PL5 5 PLUG PINS

VCO-SUPPLY 5 PL4

C2 10U TANT, C3 1N0, R1 3K9, R3 100, C5 100N, R2 1K0, L3 330N, L4 330N, R5 27, R8 22, C10 1P8, C12 1N0, R9 2K7, R11 150, C13 1N0, R15 1Ø, C16 120P, PRTD, PRTD, R18 1K0, R20 1Ø, R17 6K8, BC857 Q4, R19 1K0, C19 47N, R22 1Ø, C21 120P, C24 47N, L5 3.5T/3.5, C22 120P, 5 PL5 VCO-O/P +20DBM, Q5 MRF559, C23 8P2, C18 22P, R21 330, 9V0, 1 PL3 BUFFER+9V, 7V8, 7V2, 3V1, 0V6, 8V3, 8V0, 7V9, 5V8, 2V8, 1V5, 1V2, 0V8, 2V6, Q2 MMBR571, R14 330, C17 120P, 1 PL2 DIVIDER-BUFF, 1 PL5 GND, 2 PL5 GND, 3 PL5 GND, 4 PL5 GND

*C4 1P0, *TL1 #540, RX, *C1 2P2, *C7 10P, D1 BB809, D2 BB809, L1 330N, L2 330N, VCO-CONTROL 1 PL4, GND 2 PL4, GND 4 PL4, C6 1P2/10P, *C8 33P, C11 3P3, Q1 MMBR571, Q3 MMBR571, R4 22, C9 120P, *R6 82, R10 1K2, R12 10, R7 1K0, R13 56, C14 120P

*-VALUE CHANGES FOR DIFFERENT OPTIONS

TABLE OF OSCILLATOR OPTIONS

OPTION	F MHZ	TL1 IPN	TL1 LENGTH (MM)
TX HIGH	480-520	051-00005-43	100
TX MID / RX HIGH	435-480	051-00005-42	120
TX LOW / RX MID	395-440	051-00005-41	130
RX LOW	355-395	051-00005-40	145
TX VERY LOW	340-380	051-00005-40	145

= D.C. CONDITIONS (VOLTS) (USE HIGH IMPEDENCE PROBE)

SOT23 NPN MMBR571 (C B E) SOT23 PNP BC857 (C B E) MRF559 (E C B E)

LAYOUT FOR RX LOW

REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
2A	UPDATED GROUNDING AROUND TRIMMER CAP.	MC				
1B	ADDED 350MHZ VARIANT	MC	GR	DE	MB	2/2/94
1A	UPDATED TRIM CAP AND IMPROVED IDENTIFICATION.	MC	SP	DE	MB	8/11/93
0D	UPDATED ASSEMBLY DRAWINGS.	MC	DR	DE	MB	4/8/93
0C	CAD-WANG COMPARISION.	MC	GS	DE	MB	22/6/93
B	C/N 89/05-218	JF				17/5/89

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T855/T857 BIPOLAR VCO

IPN:	ISSUE:	ID:
220-01145-02	A	2.SC.1

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO. SHEETS:
		855VCL2A	22/2/94	1

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