

VHF/FM SYNTHESIZED  
HANDHELD TRANSCEIVER

MODEL 1100L-6  
(STD. CTCSS)

SHINSO SV1100  
Service Manual  
TA2EI - Recep Aydın GÜLEÇ

SPECIFICATIONS FOR VHF/FM SYNTHESIZED  
HAND-HELD TRANSCEIVER MODEL SV-1100,  
(Land Specifications)

GENERAL

Frequency Range : 144 MHz to 146 MHz  
Number of Channels : 6 Channels  
Communication System : Simplex or Semiduplex  
Type of Emission : 16F3  
Antenna : Helical whip antenna (50 ohm)  
Power Supply : DC 7.2V,  
Current Drain : 7.2V  
TX approx 850 mA at 2.5W output  
approx 400 mA at 0.5W output  
RX approx 85 mA for max. audio  
approx. 32 mA for standby

Dimension (mm) : 7.2V version 58(W) x 150 (H) x 42 (D)  
Weight : approx 430 grams

TRANSMITTER

Output Power : 7.2V version 0.5/2.5W switchable  
Frequency Stability : ±5 ppm (Temp. range: -10° to +50°C)  
Frequency Multiplication : 2 times  
Harmonics & Spurious Emission: 65 dB below carrier level

RECEIVER

Receiving System : Double Superheterodyne  
Frequency Stability : ±5 ppm (Temp range: -10° to +50°C)  
Intermediate Frequency : 1st 21.4 MHz, 2nd 455 KHz  
Sensitivity : Less than 0.25  $\mu$ V for 12. dB SINAD  
Selectivity : More than 70 dB at 12.5KHz  
Audio Output Power : 0.2W at 10% distortion  
Spurious Rejection : More than 65 dB

(Specifications subject to change without notice.)

DIODE MATRIX ALIGNMENT PLANNING

SV-1100L (6 CH & 12 CH)  
(STD. CTCSS)

FREQUENCY PROGRAMMING CHARTS (25KHz STEP)

RX 27.025
TX 32.250

(Formula)

$$TX/N = \left[ \frac{f \text{ (MHz)}}{2} - f_{\text{local}} \text{ (MHz)} \times 2 \right] \times \frac{1}{6.25 \times 10^{-3}}$$

$$RX/N = \left[ \frac{f \text{ (MHz)}}{2} - 21.4 \right] \times \frac{1}{6.25 \times 10^{-3}}$$

Diode Position	N
✓ A	-2*
✗ B	4*
C	8 - X
✗ D	*10*
✗ E	-20*
F	-40
✗ G	-80*
✗ H	-100
✗ I	-200 - X
✗ J	-400*
K	.1000*-

145,650 N = 820

145,050 N = 772

RX = I, II, H, G, E (F)

TX = I, II, H, E

820 = 145,650 = A, C, E, G, H, I, J

C E F H I J

Freq. Band (MHz)	TX f <sub>local</sub>	RX f <sub>local</sub>
135 - 140	30.10	24.75
140 - 145	31.35	26.00
145 - 150	32.60	27.25
150 - 155	33.85	28.50
155 - 160	35.10	29.75
160 - 165	36.35	31.00
165 - 170	37.60	32.25
170 - 175	38.85	33.50

32.250      27.250

Example 1: TX = 146.450MHz

$$N = \left[ \frac{146.450}{2} - 32.60 \times 2 \right] \times \frac{1}{0.00625} = 1284$$

\*Diodes are positioned at diode positions K, I, G, & B  
--- Frame of large "G" (CH1 of TX)

K ..... 1000  
I ..... 200  
G ..... 80  
B ..... 4

K I G B  
I 2 8 4  
63,250  
7,550

TX 146.450 ÷ 2 = 73.225

32.60 × 2 = 65.200

73.225 × 1 ÷ 0.00625 = 1284

Example<sub>2</sub>: RX = 152.500MHz

$$N = \left[ \frac{152.500 - 21.4}{2} - 28.5 \times 2 \right] \times \left( \frac{1}{0.00625} \right) = 1368$$

\*Diodes are positioned at diode positions K, I, H, F, E, & C  
---Frame of large "A" (CH1 of RX)

K ..... 1000  
I ..... 200  
H ..... 100  
F ..... 40  
E ..... 20  
C ..... 8

(Above examples' figures correspond to the attached DIODE MATRIX PLANNING chart.)

1396

$$\frac{145,650 - 21.4}{2} - 57 \times 160 = 820$$

$$820 = 145,650$$

$$145,050 \cdot N = 772$$

$$688 = 144,000$$

$$772 = 145,050$$

$$796 = 145,350$$

$$62,100 \rightarrow 57 \times 160$$

$$1396 = 152,850$$

K IH FE C  
1 3 6 8

816      120.8

$$1 \div 0.00625 = 160$$

$$RX 152.500 - 21.4 \div 2 = 65.55$$

$$28.5 \times 2 = 57.00$$

$$\overline{65.55 \times 1 \div 0.00625 = 1368}$$

Later

$$RX [152.500] - 21.4 \div 2 = [57] \times 160 = 1368$$

DIODE MATRIX ALIGNMENT PLANNING

NO.1

MHZ	135.140.145.150.155.160.165.170
KHZ	A B C D E F G H I J K L M N
000	o o o o o o
025	o o o o o o
050	o o o o o o
075	o o o o o o
100	o o o o o o
125	o o o o o o
150	o o o o o o
175	o o o o o o
200	o o o o o o
225	o o o o o o
250	o o o o o o
275	o o o o o o
300	o o o o o o
325	o o o o o o
350	o o o o o o
375	o o o o o o
400	o o o o o o
425	o o o o o o
450	o o o o o o
475	o o o o o o
500	o o o o o o
525	o o o o o o
550	o o o o o o
575	o o o o o o
600	o o o o o o
625	o o o o o o
650	o o o o o o
675	o o o o o o
700	o o o o o o
725	o o o o o o
750	o o o o o o
775	o o o o o o
800	o o o o o o
825	o o o o o o
850	o o o o o o
875	o o o o o o
900	o o o o o o
925	o o o o o o
950	o o o o o o
975	o o o o o o

CRYSTAL (MHZ)

(TX) (RX)  
 135-140..30.10 / 24.75  
 140-145..31.35 / 26.00  
 145-150..32.60 / 27.25  
 150-155..33.85 / 28.50

MHZ	136.141.146.151.156.161.166.171
KHZ	A B C D E F G H I J K L M N
000	o o o o o o
025	o o o o o o
050	o o o o o o
075	o o o o o o
100	o o o o o o
125	o o o o o o
150	o o o o o o
175	o o o o o o
200	o o o o o o
225	o o o o o o
250	o o o o o o
275	o o o o o o
300	o o o o o o
325	o o o o o o
350	o o o o o o
375	o o o o o o
400	o o o o o o
425	o o o o o o
450	o o o o o o
475	o o o o o o
500	o o o o o o
525	o o o o o o
550	o o o o o o
575	o o o o o o
600	o o o o o o
625	o o o o o o
650	o o o o o o
675	o o o o o o
700	o o o o o o
725	o o o o o o
750	o o o o o o
775	o o o o o o
800	o o o o o o
825	o o o o o o
850	o o o o o o
875	o o o o o o
900	o o o o o o
925	o o o o o o
950	o o o o o o
975	o o o o o o

(TX) (RX)  
 155-160..35.10 / 29.75  
 160-165..36.35 / 31.00  
 165-170..37.60 / 32.25  
 170-175..38.85 / 33.50



DIODE MATRIX ALIGNMENT PLANNING

NO.3

MHZ	139.144.149.154.159.164.169.174													
KHZ	A	B	C	D	E	F	G	H	I	J	K	L	M	N
000		o					o		o	o				
025			o				o		o	o				
050	o		o				o		o	o				
075	o	o					o		o	o				
100	o	o	o				o		o	o				
125		o	o				o		o	o				
150							o		o	o				
175	o						o		o	o				
200		o					o		o	o				
225	o	o					o		o	o				
250		o					o		o	o				
275			o				o		o	o				
300	o		o				o		o	o				
325	o	o					o		o	o				
350	o	o	o				o		o	o				
375		o	o				o		o	o				
400			o				o		o	o				
425	o			o			o		o	o				
450	o		o				o		o	o				
475	o	o		o			o		o	o				
500			o	o			o		o	o				
525			o	o			o		o	o				
550	o		o	o			o		o	o				
575	o	o	o				o		o	o				
600	o	o	o	o			o		o	o				
625		o	o	o			o		o	o				
650				o	o		o		o	o				
675	o			o	o		o		o	o				
700	o			o	o		o		o	o				
725	o	o			o	o		o	o	o				
750		o		o	o		o		o	o				
775			o	o	o		o		o	o				
800	o		o	o	o		o		o	o				
825	o	o		o	o		o		o	o				
850	o	o	o		o	o	o		o	o				
875		o	o	o	o		o		o	o				
900			o	o	o		o		o	o				
925	o		o	o	o		o		o	o				
950		o		o	o		o		o	o				
975	o	o		o	o		o		o	o				

型式 PTT TRANSCIEVER		名称 CONTROL - 1			回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
	FRONT COVER		- See the attached sheet -	1			
	REAR COVER		- See the attached sheet. -	1			
	CHASSIS			1		SV-1100-3	
	BATTERY CASE		- See the attached sheet. -	1			
	"		"	1			
	SW. LEVER			1		SV-1100-6	
	RADIATOR BOARD			1		SV-1100-7	
	SHIELD CASE (I)			1		SV-1100-8	
	SHIELD CASE (II)			1		SV-1100-9	
	SHIELD CASE (III)			1		SV-1100-10	
	KNOB		- See the attached sheet. -	2			
	KNOB		"	1			
	CONTROL PLATE		"	1			
	NAME PLATE		"	1			
	INSULATING PAPER (SHIELD CASE)			2		SV-1100-15	
	CONTACT SPRING			2		SV-1100-16A	
	P.C. BOARD (CONTROL)		- See the attached sheet. -	1			
	P.C. BOARD (PTT SW)			1		SV-1100-20B	
	P.C. BOARD (CHARGING TERMINAL)			1		SV-1100-21A-1	
	P.C. BOARD (CONNECTING POINT) MAIN BODY SIDE			1		SV-1100-22	
	P.C. BOARD (BATTERY SIDE)			1		SV-1100-23B	
	TERMINAL PLATE		- See the attached sheet. -	1			
	KNOB (A) INSERT		"	2		SV-1100-25	
	KNOB (B) INSERT		"	1		SV-1100-26	
	STYROL BOX			1		SV-1100-28	
	GIFT BOX		- See the attached sheet	1			
	SPEAKER CROSS			1		SV-1100-36	
	HAND STRAP		- See the attached sheet. -	1			
	CARRING CASE		- See the attached sheet. -	1			
	MANUAL		"	1			
	VYNIL BAG (for MAIN BODY)			1			
	VYNIL BAG (for ANTENNA)			1			
	ANTENNA		- See the attached sheet. -	1			
	FREQ. PLATE		"	1			
	CHANNEL SEAL		"	1			
	WATERPROOF CAP (SV-1100)		"	1			
	WATERPROOF CAP (SV-8001)			1		SV-8001-41A	
	HOOK PLATE		- See the attached sheet. -	1			
承認	検査	製作	型式		回路図 図番	SV-1100-541	1

記号	品名	型式	定格	数量	製造会社	回路定数表 引用規格 または図番	日付
							名称
	MOULD			2		SV-1100-45	
	MOULD			1		SV-1100-46	
	MOULD (FITTING SPEAKER)			1		SV-1100-47	
	INSULATION FIBER			1		SV-1100-74	
	STUTT			4		SV-1100-63A	
	STOPPER			1		SV-1100-48	
	VOC Pat			1		SV-1100-100	
	CHARGER PLATE		-See the at- tached sheet	1			
	TA NAME PLATE		-See the at- tached sheet	1			
	EARPHONE		-See the at- tached sheet	1			
	BELT CLIP		-See the at- tached sheet	1			
	MACHINE SCREW CROSS-RECESSED						
		PAN TYPE	2 x 4	2			
		"	2 x 3	2			
		BINDING TYPE	2 x 3	12			
	TAPPING SCREW						
		TYPE B CUTTING	2 x 5	1			
	XEXAGON SOCKET HEADLESS SET SCREW						
			3 x 3	1		DOUBLE POINT	
	MACHINE SCREW CROSS-RECESSED						
		TYPE BINDING	3 x 4	2		- See the attached sheet -	
	WIRE LIST					- See the at- tached sheet -	
承認	検査	製作	型式		回路図 図番		
							2

		型式 PTT TRANSCEIVER 型		名称 CONTROL - 2			回路定数表		日付
記号	品名	型式		定格	数量	製造会社	引用規格または図番	備考	
D301	LED	SLP-102A			1				
D302	"	SLP-102A			1				
D303	DIODE		10D-1		1				
D304	"		- See the attached sheet. -		1				
J301	ANT. JACK	BNC-R			1				
J302	EXT. SP		- See the attached sheet. -		1				
J303	EXT. MIC	SR30-10R-6S			1				
J304	CHARGER JACK		- See the attached sheet. -		1				
SP301	SPEAKER	C040A13A0000			1				
MIC301	MIC.	WM-063T			1				
SW302	RF POWER		- See the attached sheet. -		1				
SW303	PTT	EVQ-QS205K			1				
SW304	CHANNEL		- See the attached sheet. -		1				
VR301	SQ		- See the attached sheet. -		1				
VR302	VOL.	V12M4-1S(SJ)15S15A5K			1				
B301	BATTERY		- See the attached sheet. -		1				
	BATTERY CHARGER		"		1				
C301	SOLID CAPACITOR	CERAMIC	DD104-CH240J50V		1				
C302	"	"	DD104B102K50V		1				
C303	"	"	DD104B102K50V		1				
C304	"	"	DD104B102K50V		1				
R301	SOLID RESISTER		ERD-16TJ223		1				
承認	検査	製作	型式	回路	回路	回路	SV-1100-542	3	
				図	図	図			
				番					

記号	品名	型式	定格	回路定数表			日付
				数量	製造会社	引用規格または図番	
L201	COIL		SR5	1			
L202	"		"	1			
L203	"		"	1			
L204	"		"	1			
L205	"		2R	1			
L206	"		1852	1			
VR201	SEMI-VARIABLE RESISTER	EVN	B3A-A00-B14	1			
VR202	"	"	EVN-A1A-A00-B54	1			
VR203	"	"	EVN-B1A-A00-B14	1			
TH201	THERMISTER		35D26	1			
TH202	"		"	1			
D201	DIODE		1S1588	1			
D202	"		MC931	1			
D205	"		- See the attached sheet. -	1			
D206	"		MA522	1			
D207	"		1S1588	1			
D208	"		1K60	1			
D210	"		1S1588	1			
J201	CONNECTOR		PD07A03M	1			
J203	"		PD07A05M	1			
J204	"		PD07A05M	1			
	PIN		507201-2M	12			
	P.C. BOARD		SV-1100-RX	1			
X201	CRYSTAL	UM-1	- See the attached sheet -	1			
承認	検図	製作	型式	回路図 番	SV-1100-543		4

型式 PTT TRANSCIEVER 型		名称	RX - 1	回路定数表		日付
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記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
L201	COIL		SR5	1			
L202	"		"	1			
L203	"		"	1			
L204	"		"	1			
L205	"		2R	1			
L206	"		1852	1			
VR201	SEMI-VARIABLE RESISTER	EVN	B3A-A00-B14	1			
VR202	"	"	EVN-A1A-A00-B54	1			
VR203	"	"	EVN-B1A-A00-B14	1			
TH201	THERMISTER		35D26	1			
TH202	"		"	1			
D201	DIODE		1S1588	1			
D202	"		MC931	1			
D205	"		- See the attached sheet. -	1			
D206	"		MA522	1			
D207	"		1S1588	1			
D208	"		1K60	1			
D210	"		1S1588	1			
J201	CONNECTOR		PD07A03M	1			
J203	"		PD07A05M	1			
J204	"		PD07A05M	1			
	PIN		507201-2M	12			
	P.C. BOARD		SV-1100-RX	1			
X201	CRYSTAL	UM-1	- See the attached sheet -	1			
承認	検査	製作	型式	回路図番	SV-1100-543		4

		型式 PTT TRANSCEIVER 型		名称 RX - 2		回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考	
TR201	TRANSISTER		2SC2603	1				
TR202	"		"	1				
TR203	"		2SA1115	1				
TR204	"		2SC2603	1				
TR205	"		"	1				
TR206	"		2SA1115	1				
TR207	"		"	1				
TR208	"		2SC2603	1				
TR209	"		2SB621	1				
TR210	"		2SC2603	1				
TR211	"		2SC2603	1				
TR212	"		2SA1115	1				
TR213	"		2SC2603	1				
TR214	"		"	1				
TR215	"		2SB621	1				
TR216	FET		2SK192	1				
TR217	TRANSISTER		2SC2603	1				
TR218	"		2SA1115	1				
TR220	"		2SC2603	1				
TR221	FET		3SK72	1				
TR222	"		2N5668	1				
TR223	TRANSISTER		2SC2724	1				
TR224	"		"	1				
TR225	"		2SC2603	1				
TR226	"		"	1				
TR227	"		2SA1115	1				
IC201	I.C.		MC3359P	1				
IC202	I.C.		TBA820M	1				
FL201	CRYSTAL FILTER		- See the attached sheet. -	1				
FL202	CERAMIC FILTER		"	1				
承認	検図	製作	型式		回路図番	SV-1100-544	5	

		型式 PTT TRANSCEIVER <sup>型</sup>						日付
記号	品名	型式	定格	数量	製造会社	回路定数表	引用規格 または図番	備考
R201	SOLID RESISTER		ERD-16EJ-473	1				
R202	"		" -823	1				
R203	"		" -223	1				
R204	"		" -473	1				
R205	"		" -102	1				
R206	"		" -332	1				
R207	"		" -222	1				
R208	"		" -222	1				
R209	"		" -472	1				
R210	"		" -102	1				
R211	"		" -473	1				
R212	"		" -823	1				
R213	"		" -472	1				
R214	"		" -822	1				
R215	"		" -103	1				
R216	"		" -222	1				
R217	"		" -332	1				
R218	"		" -103	1				
R219	"		" -332	1				
R220	"		" -102	1				
R221	"		" -102	1				
R222	"		" -472	1				
R223	"		" -223	1				
R224	"		" -101	1				
R225	"		" -473	1				
R226	"							
R227	"							
R228	"		" -104	1				
R229	"		" -561	1				
R230	"		" -222	1				
R231	"		" -330	1				
R232	"		See the attached sheet.		1			
R233	"		" -471	1				
R234	"		" -332	1				
R235	"		" -822	1				
R236	"		" -103	1				
R237	"		" -223	1				
承認	検査	製作	型式		回路図 番	SV-1100-545		6

		型式 PTT TRANSCEIVER	名称 RX - 4	回路定数表	日付
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記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
R240	SOLID RESISTER		ERD-16EJ-222	1			
R241	"		" -223	1			
R242	"		" -153	1			
R243	"		" -563	1			
R244	"		" -221	1			
R245	"		" -221	1			
R246	"		" -102	1			
R247	"		ERD-10EJ-471	1			
R248	"		ERD-16EJ-681	1			
R249	"		" -473	1			
R250	"		" -224	1			
R251	"		" -332	1			
R252	"		" -221	1			
R253	"						
R254	"		" -223	1			
R255	"		" -561	1			
R256	"		" -222	1			
R257	"		" -152	1			
R258	"		" -224	1			
R259	"		" -103	1			
R260	"		" -821	1			
R261	"		- See the attached sheet. -	1			
R262	"		ERD-16EJ-223	1			
R263	"		ERD-10EJ-563	1			
R264	"		ERD-16EJ-560	1			
R265	"		" -103	1			
R266	"						
R267	"		" -560	1			
R268	"		ERD-10EJ-681	1			
R269	"		ERD-16EJ-104	1			
R270	"		ERD-16TJ-103	1			
R271	"		- See the attached sheet. -	1			
R272	"		- See the attached sheet. -	1			
R273	"		- See the attached sheet. -	1			
R274	"						
R275	"						
R276	"						
R277	"						
R278	"						
R279	"						
承認	検図	製作	型式	回路図 図番	SV-1100-546		7

型式 PTT  
名称 RX - 5  
回路定数表

日付

記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
C201	SOLID CAPACITOR	TANTALUM ELECTROLYTIC	ECS-FIVE-105	1		1u/35V	
C202	"	AL. ELECTROLYTIC	ECEA1AK330	1		33u/10V	
C203	"	CERAMIC	DD104B102K50V	1			
C204	"	CERAMIC	DD107CH101J50V	1			
C205							
C206	"	POLYESTER FILM	AMZ472	1			
C207	"	"	AMZ222	1			
C208	"	CERAMIC	DD104B102K50V	1			
C209	"	"	"	1			
C210	"	"	"	1			
C211	"	"	"	1			
C212	"	"	"	1			
C213							
C214	"	TANTALUM ELECTROLYTIC	ECS-FIVE-105	1		1u/35V	
C215	"	CERAMIC	TP125X153N	1			
C216	"		- See the attached sheet. -	1		10u/16V	
C217	"	"	ECEA1CK100	1			
C218	"	CERAMIC	DD104B102K50V	1			
C219	"	"	"	1			
C220	"	"	"	1			
C221	"	TANTALUM ELECTROLYTIC	ECSFIVE105	1		1u/35V	
C222	"	CERAMIC	DD104B102K50V	1			
C223	"	"	"	1			
C224	"	"	"	1			
C225	"	AL. ELECTROLYTIC	ECEA1AK101	1		100u/10V	
C226	"	CERAMIC	DD104B102K50V	1			
C227	"	"	"	1			
C228	"	AL. ELECTROLYTIC	ECEA1AK330	1		33u/10V	
C229	"	CERAMIC	DD104B102K50V	1			
C230	"	"	"	1			
C231	"	TANTALUM ELECTROLYTIC	ECSFIVE224	1		0.2u/35V	
C232							
C233	"	CERAMIC	DD104B102K50V	1			
C234	"	"	"	1			
C235							
C236	"	AL. ELECTROLYTIC	ECEA1CK100	1		10u/16V	
C237	"	TANTALUM ELECTROLYTIC	ECSFIVE225	1		2.2u/35V	
C238	"	CERAMIC	DD105CH300J50V	1			
C239	"	"	- See the attached sheet -	1			
承認	検査	製作	型式		回路図 番	SV-1100-547	8

		型式PTT TRANSCEIVER型		名称 RX - 6	回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考
C240	SOLID CAPACITOR	CERAMIC	DD104CK010C50V	1			
C241	"	"	- See the attached sheet. -	1			
C243	"	"	DD104B102K50V	1			
C244	"	"	"	1			
C245	"	"	- See the attached sheet. -	1			
C246	"	"	DD104CH0R5C50V	1			
C247	"	"	- See the attached sheet. -	1			
C248	"	"	DD104UJ120J50V	1			
C249	"	"	DD104B102K50V	1			
C250	"	"	- See the attached sheet. -	1			
C251	"	"	"	1			
C252	"	"	DD104B102K50V	1			
C253	"	"	"	1			
C254	"	"	"	1			
C255	"	AL. ELECTROLYTIC	ECEA1AK101	1		100u/10V	
C256	"	Sr.-BL. CERAMIC	UAT06V223	1			
C257	"	CERAMIC	DD105CH300J50V	1			
C258	"	"	DD105SL101J50V	1			
C259	"	Sr.-BL. CERAMIC	UAT06V223	1			
C260	"	" "	"	1			
C261	"	" "	"	1			
C262	"	AL. ELECTROLYTIC	ECEA1CK100	1		10u/16V	
C263	"	CERAMIC	ROU04B471K	1		470P	
C264	"	"	DD104B102K50V	1			
C265	"	AL. ELECTROLYTIC	ECEA1CK100	1		10u/16V	
C266	"	TANTALUM ELECTROLYTIC	ECSFIVE225	1		2.2u/35V	
C267	"	POLYESTER FILM	AMZ102	1			
C268	"	"	"	1			
C270	"	AL. ELECTROLYTIC	ECEA1CK100	1		10u/16V	
C271	"	TANTALUM ELECTROLYTIC	ECSFIVE225	1		2.2u/35V	
C272	"	"	ECSFIVE105	1		1u/35V	
C273	"	CERAMIC	DD104B102K50V	1			
C274	"	POLYESTER FILM	AMZ103	1			
C275	"	AL. ELECTROLYTIC	ECEA1AK330	1		33u/10V	
C276	"	"	"	1		"	
C277	"	"	ECEA1CK100	1		10u/16V	
C278	"	CERAMIC	DD104B102K50V	1			

記号	品名	型式	定格	数量	製造会社	引用規格 または図番	日付
C279	SOLID CAPACITOR	AL. ELECTROLYTIC	ECEA1CK101	1		100u/16V	
C280	"	CERAMIC	DD104B102K50V	1			
C281	"	TANTALUM ELECTROLYTIC	ECSFIVE105	1		1u/35V	
C282	"	AL. ELECTROLYTIC	ECEA1CK101	1		100u/16V	
C283	"	Sr.-BL. CERAMIC	UAT08473	1			
C284	"	CERAMIC	ROU06F103Z50V	1			
C286		CERMIC	DD104B102K50V	1			
C287		"	UAT06V223	1			
C288		"	ROU06F103Z50V	1			
承認	検査	製作	型式	一	回路図 図 番	SV-1100-549	10

		型式 PTT TRANSCEIVER	名称 PLL-1	回路定数表			日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考
TR101	TRANSISTOR		2SC2724	1			
TR102	"		2SC2026	1		or 2SC2753	
TR103	"		2SC2724	1			
TR104	"		2SC2055	1			
TR105	"		2SC3019	1			
TR106	"		- See the attached sheet. -	1			
TR107	"		2SD965	1			
TR108	"		2SA115	1			
TR109	"		"	1			
TR110	FET		2SK192	1			
TR111	TRANSISTOR		2SC2724	1			
TR112	"		"	1			
TR113	"		"	1			
TR114	"		2SC2603	1			
TR115	"		2SC535	1			
D101	DIODE		1S1588	1			
D102	"		VD1123	1			
D103	"		MI301	1			
D104	"		"	1			
D106	"		FC52M	1		or 1SV185	
D107	"		MC931	1			
D108	"		1SS53	1			
D109	"		1SS53	1			
D110	"		MC301	1			
D111	"		MC301	1			
D112	"		- See the attached sheet. -	1			
IC101	I.C.		TC9122	1			
IC102	"		TC5082	1			
IC103	"		TC5081	1			

記号	品名	型式	定格	数量	製造会社	回路定数表 引用規格 または図番	日付
X101	CRYSTAL	UM-1	- See the attached sheet. -	1			
X102	"	"	"	1			
X103	"	"	"	1			
X104	"	"	"	1			
L101	COIL		SR1	1			
L102	"		ST5	1			
L103	"		"	1			
L104	"		SR1	1			
L105	"	AIR DUG	512	1			
L106	"	"	510	1			
L107	"	"	512	1			
L108	"	"	510	1			
L109	"	"	512	1			
L110	"	"	511	1			
L111	"	"	513	1			
L112	"	"	511	1			
L113	"	"	511	1			
L114	"	"	501	1			
L118	"		4R2	1			
L119	"		SR3	1			
L120	"		- See the attached sheet. -	1			
	CRYSTAL SOCKET		- See the attached sheet. -	2			
承認	検図	製作	型式		回路図 番	SV-1100-551	12

		型式 PTT TRANSCEIVER		名称 PLL-3			回路定数表	日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考	
VR101	SEMI VARIABLE RESISTER		EVN-B1A-A00-B14	1				
VC101	SEMI VARIABLE CAPACITOR		CTZ31E	1				
VC102	"		"	1				
VC103	"		"	1				
VC104	"		ECV-1ZW20×53T	1				
VC105	"		"	1				
VC106	"		CTZ31E	1				
VC107	"		"	1				
VC108	"		- See the at- tached sheet. -	1				
CH101	CHOKE		LAL03-NA-1ROM	1				
CH102	"		"	1				
CH103	"		LAL03-NA-101M	1				
CH104	"		"	1				
CH105	"		LAL03-NA-100M	1				
CH106	"		"	1				
CH107	"		LAL03-NA-1ROM	1				
CH108	"		- See the at- tached sheet. -	1				
CH109	"		LAL03-NA-100M	1				
CH110	"		LAL03-NA-100M	1				
CH111	"		LAL03-NA-100M	1				
CH112	"		LAL03-NA-1ROM	1				
	P.C. BOARD		SV-1100-PLL	1				
	BEADS			2				
承認	検査	製作	型式		回路図 番	SV-1100-552		13

		型式 PTT TRANSCEIVER		名称 PLL-4		回路定数表		日付
記号	品名	型式		定格	数量	製造会社	引用規格 または図番	備考
C101	SOLID CAPACITOR	CERAMIC		DD105CH200J50V	1			
C102	"	"		DD104CH0R5C50V	1			
C103	"	"	- See the attached sheet. -		1			
C104	"	"		"	1			
C105	"	AL. ELECTROLYTIC	ECEA1AK330		1		33u/10V	
C106	"	CERAMIC		DD104B102K50V	1			
C107	"	"		"	1			
C108	"	"		"	1			
C109	"	"	- See the attached sheet. -		1			
C110	"	"		"	1			
C111	"	"		DD104CH010D50V	1			
C112	"	"		DD105CH300J50V	1			
C113	"	"		DD104B102K50V	1			
C114	"	"		"	1			
C115	"	"		"	1			
C116	"	AL. ELECTROLYTIC	ECEA1AK330		1		33u/10V	
C117	"	CERAMIC	- See the attached sheet. -		1			
C118	"	"		DD104B102K50V	1			
C119	"	"		"	1			
C120	"	"		"	1			
C121	"	"		"	1			
C122	"	"		"	1			
C123	"	"		DD104B102K50V	1			
C124	"	AL. ELECTROLYTIC	ECEA1CK100		1		10u/16V	
C126	"	CERAMIC	- See the attached sheet. -		1			
C127	"	"		"	1			
C128	"	"		"	1			
C129	"	"		DD104CH050D50V	1			
C130	"	"		DD104B102K50V	1			
C131	"	"		"	1			
C132	"	"		"	1			
C133	"	"		"	1			
C134	"	"		DD104CH240J50V	1			
C135	"	"		DD104CH060J50V	1			
C136	"	"		DD106CH510J50V	1			
C137	"	"		DD104B102K50V	1			
C138	"	"		"	1			
C139	"	"		"	1			
承認	検査	製作	型式	回路図 図			SV-1100-553	14

		型式 PTT TRANSCEIVER	名称 PLL-5	回路定数表			日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考
C140	SOLID CAPACITOR	CERAMIC	DD104B102K50V	1			
C141	"	"	"	1			
C142	"	"	"	1			
C143	"	"	"	1			
C144	"	"	"	1			
C145	"	"	"	1			
C146	"	"	DD105CH300J50V	1			
C147	"	"	DD105CH300J50V	1			
C148	"	"	DD104B102K50V	1			
C149	"	AL. ELECTROLYTIC	ECEA1CK100	1		10u/16V	
C150	"	CERAMIC	DD104B102K50V	1			
C151	"	TANTALUM ELECTROLYTIC	- See the attached sheet.	1			
C152	"	CERAMIC	UAT05X472M	1			
C154	"	"	DD104B102K50V	1			
C155	"	"	"	1			
C158	"	CERAMIC	- See the attached sheet.	1			
C159	"	"	DD104B102K50V	1			
C160	"	POLYESTER	AMZ102	1			
C161	"	AL. ELECTROLYTIC	ECEA1AK330	1		33u/10V	
C162	"	CERAMIC	- See the attached sheet.	1			
C163	"	"	"	1			
C164	"	"	"	1			
C165	"	"	DD104B102K50V	1			
C166	"	"	- See the attached sheet.	1			
C167	"	"	DD104CH020D50V	1			
C168	"	"	DD104B102K50V	1			
C172	"	"	DD104B102K50V	1			
C173	"	"	"	1			
C174	"	"	"	1			
C175	"	"	DD104CH080D50V	1			
C176	"	"	DD104CH100D50V	1			
C177	"	"	- See the attached sheet.	1			
C178	"	"	"	1			
承認	検査	製作	型式		回路図 番	SV-1100-554	15

		型式 PTT TRANSCEIVER型		名称 PLL-6			回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考		
C179	SOLID CAPACITOR	CERAMIC	DD104B102K50V	1					
C180	"	"	ROU04SA101JL05AE	1					
C181	"	"	DD104B102K50V	1					
C183	"	"	DD106CH620J50V	1					
C184	"	"	- See the attached sheet. -	1					
C185	"	"	DD104B102K50V	1					
C186	"	"	- See the attached sheet. -	1					
C187	"	"	DD104B102K50V	1					
C188	"	"	"	1					
C189	"	"	"	1					
C190	"	AL. ELECTROLYTIC	ECEA1AKS330	1		33/10V			
C191	"	CERAMIC	DD104CH060D50V	1					
C192	"	"	DD104B102K50V	1					
C193	"	"	"	1					
C194	"	"	- See the attached sheet. -	1					
C195	"	"	DD104B102K50V	1					
C197	"	"	DD104CH100D50V	1					
C198	"	"	- See the attached sheet. -	1					
C199	"	"	DD104CH100D50V	1					
C601	"	"	DD104B102K50V	1					
C602	"	"	"	1					
C603	"	"	"	1					
C604	"	"	"	1					
C605	"	"	"	1					
C607	"	TANTALUM ELECTROLYTIC	- See the attached sheet. -	1					
C608	"	AL. ELECTROLYTIC	ECEA1EK3R3	1					
承認	検査	製作	型式			回路図 図番	SV-1100-555		16

記号	品名	型式	定格	数量	製造会社	引用規格または図番	回路定数表	日付
							PLL-7	
R101	SOLID REGISTER		ERD-16EJ-104	1				
R102	"		" -563	1				
R103	"		" -103	1				
R104	"		" -560	1				
R105	"		" -101	1				
R106	"		" -151	1				
R107	"		" -220	1				
R108	"		" -220	1				
R109	"		" -470	1				
R110	"		ERD-16TJ-2R2	1				
R111	"		ERD-16EJ-330	1				
R112	"		" -470	1				
R113	"		" -221	1				
R114	"		" -473	1				
R115	"		" -473	1				
R116	"							
R117	"							
R118	"		- See the attached sheet. -	1				
R119	"		"	1				
R120	"		ERD-16TJ-103	1				
R121	"		ERD-16EJ-104	1				
R122	"		" -472	1				
R123	"		" -153	1				
R124	"		" -101	1				
R125	"		" -471	1				
R126	"		" -222	1				
R127	"		" -222	1				
R128	"		- See the attached sheet. -	1				
R129	"		ERD-16EJ-333	1				
R130	"		" -154	1				
R131	"		" -222	1				
R132	"		" -333	1				
R133	"		" -103	1				
R134	"		" -102	1				
R135	"		" -222	1				
R136	"							
R137	"		" -561	1				
R138	"							
R139	"		" -154	1				
承認	検査	製作	型式		回路図 番	SV-1100-556		17

		型式 PTT TRANSCEIVER <sup>形</sup>		名称	PLL-8	回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考	
R140	SOLID RESISTOR		ERD-16TJ-102	1				
R141	"		ERD-16EJ-221	1				
R142	"		" -561	1				
R143	"		" -471	1				
R144	"		" -331	1				
R145	"		" -681	1				
R146	"		" -221	1				
R147	"		ERD-16TJ-102	1				
R149	"		- See the attached sheet. -	1				
R150	"		"	1				
R151	"		ERD-16EJ-154	1				
31								
32								
33								
34								
35								
36								
37								
38								
39								
承認	検図	製作	型式	回路図 図番	SV-1100-557		18	

型式 PTT TRANSCEIVER		名称				回路定数表		日付
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型式 PTT TRANSCEIVER		名称				回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考	
	P.C. BOARD		- See the attached sheet -	1				
J401	CONNECTOR		- See the attached sheet -	1				
D401-D423	DIODE		- See the attached sheet -					
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
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承認	検査	製作	型式		回路図 図番			

記号	品名	型式	名称 STD-CTCSS			回路定数表	日付 8/15/85
			定格	数量	製造会社		
1 IC801	IC		MX335L	1			
2							
3							
4 TR801	Transistor		2SC2603	1			
5							
6							
7 D801	Diode		1S1588	1			
8 D802	"		1K60	1			
9							
10 X801	Ceralock		CSB1000D	1			
11							
12							
13							
14 VR801	Variable resistor		EVN-B3AA00B14	1		approx. 10K	
15							
16							
17							
18 R801	Resistor		RD16S 562	1		not used	
19 R802	"		" 104	1			
20 R803	"		334	1			
21 R804	"		" 103	1			
22 R805	"		" 105	1			
23 R806	"		" 104	1			
24 R807	"		" 473	1			
25 R808	"		" 473	1			
26 R809	"		" 824	1			
27 R810	"		" 564	1			
28 R811	"		" 472	1			
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
承認	検査	製作	型式		回路図 番		

		型式	名称	回路定数表			日付
		型 STD-CTCSS					8/15/85

記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
1 J801	Connector		PI22B03M	1			
2 J802	"		PI22B06M	1			
3							
4 SW801	Dip SW		DSS706	1			
5							
6							
7							
8 C801	Capacitor	0.001uF	DD104B102K50V	1			
9 C802	"	10u/16V	ECEB1CK100	1			
10 C803	"	0.47u/20V	ECSZ20MAR47	1			
11 C804	"	"	"	1			
12 C805	"	0.001uF	DD104B102K50V	1			
13 C806	"	"	"	1			
14 C807	"	"	"	1			
15 C808	"	"	"	1			
16 C809	"	10u/16V	ECEB1CK100	1			
17 C810	"	0.047u/35V	ECSZ35MA473	1			
18 C811	"	0.0047uF(UAT)	UAT05X472	1			
19 C812	"	0.022uF	RPE110B223	1			
20 C813	"	1u/25V	ECSZ25MA1	1			
21 C814	"	0.001uF	DD104B102K50V	1			
22 C815	"	10u/16V	ECEB1CK100	1			
23 C818	"	"	"	1			
24 C819	"	0.001uF	DD104B102K50V	1			
25 C820	"	CH30P	DD105CH300J50V	1			
26 C821	"	"	"	1			
27 C827	"	0.001uF	DD104B102K50V	1			
28							
29							
30							
31	PCB		TOT-CTCSS	1			
32							
33	Insulator board		SV-1100-74	1			
34	"		SV-1100-74A	1			
35	Stutt		SV-1100-63A	3			
36							
37							
38							
39							

		型式	名称	ATTACHED SHEET		回路定数表	日付
記号	品名	型式	定格	数量	製造会社	引用規格または図番	備考
1		FRONT COVER		1		SV-1100-1	
2		REAR COVER		1		SV-1100-2B	
3		BATTERY CASE		1		SV-1100-4	
4		"		1		SV-1100-5	
5		KNOB		2		SV-1100-11	
6		KNOB		1		SV-1100-12	
7		CONTROL PLATE		1		SV-1100-145	
8		NAME PLATE		1		SV-1100-14A	
9		P.C. BOARD (CONTROL)		1		SV-1100-19D	
10		TERMINAL PLATE		1		SV-1100-24	
11		KNOB (A) INSERT		2		SV-1100-25	
12		KNOB (B) INSERT		1		SV-1100-26	
13		GIFT BOX	SV-1100	1			
14		HAND STRAP	SV-9001	1			
15		CARRYING CASE	SV-1100H	1			
16		MANUAL	LAND TYPE	1			
17		ANTENNA	SS-139HNA	1			
18		FREQ. PLATE		1		SV-1100-59	
19		CHANNEL SEAL	non-use	1			
20		WATERPROOF CAP (SV-1100)		1		SV-1100-56	
21		HOOK PLATE		1		SV-1100-51	
22		CHARGER PLATE		1		SV-1100-69	
23				1			
24		TA NAME PLATE	non-use	1			
25		MACHINE SCREW CROSS-RECESSED TYPE BINDING 3 X 4		2			
26							
27		WIRE LIST					
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承認	検査	製作	型式	STD CTCSS SV-1100L-6	回路図 番		

		型式 名称 ATTACHED SHEET				回路定数表	日付
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		型式 名称 ATTACHED SHEET				回路定数表	日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考
1 D304	DIODE		10D-1	1			
2 J302	EXT. SP		HSJ0296-01-150	1			
3 J304	CHARGER JACK		HSJ-0289-01-150	1			
4 SW302	RF POWER		SSS-212	1			
5 SW304	CHANNEL		MR2-6S	1			
6 VR301	SQ	V12M4-1SSJ15SB50K		1			
7 B301	BATTERY		P06E-F23B3	1			
8	BATTERY CHARGER		BC-011	1			
9							
10 P801	CONNECTOR			1		SV-1100-711	
11 P802	"			1		SV-1100-712	
12							
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承認	検査	製作	型式	SV-1100L-6	回路図 番		

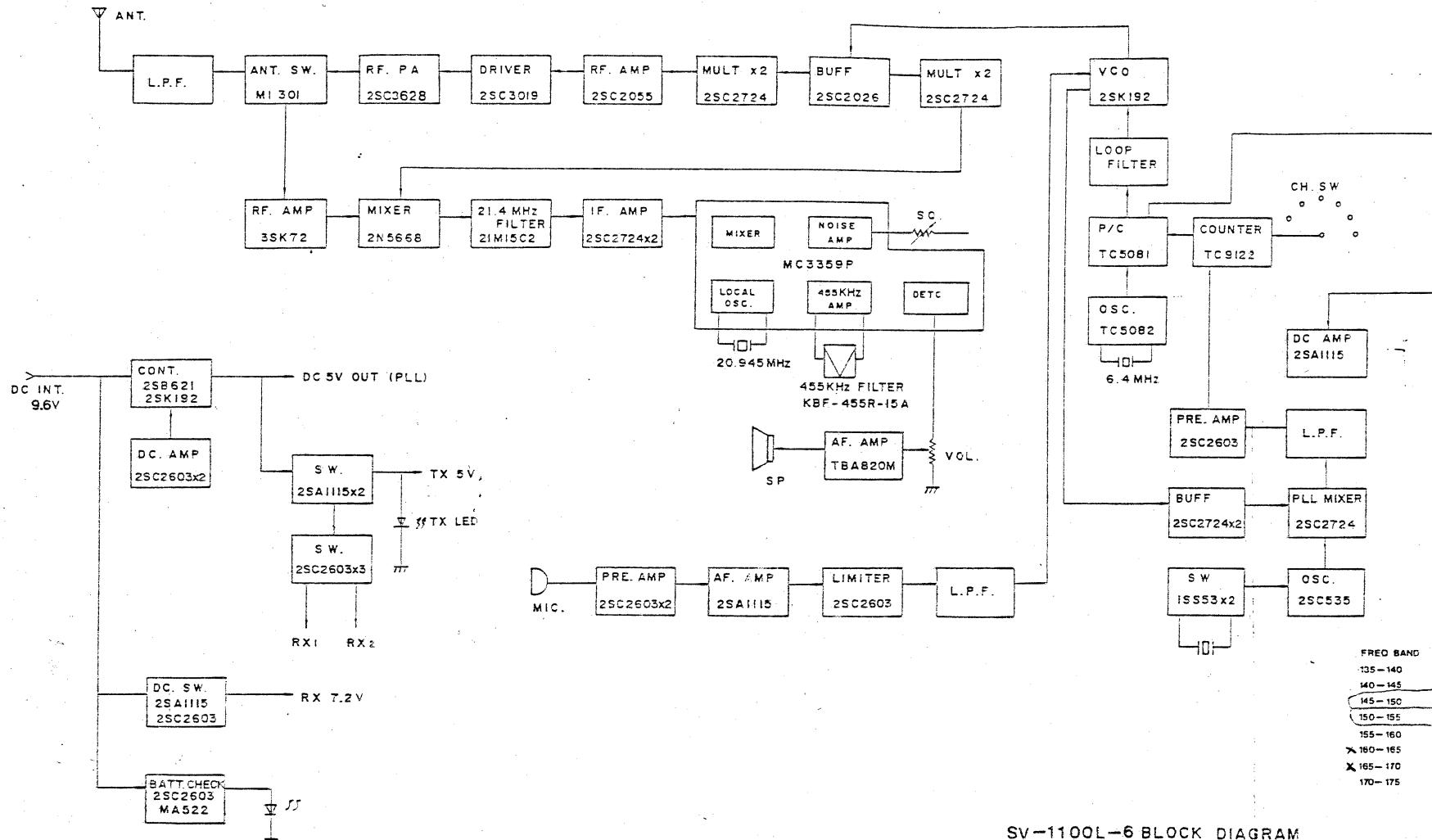
		型式		名称		ATTACHED SHEET		回路定数表		日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番		備		
1	TR106	TRANSISTOR	2SC3379	1						
2	D112	DIODE	MC301	1						
3	X101	CRYSTAL	UM-1	1						
4	X102	"	depends on frequency range	1						
5	X103	"		1						
6	X104	"	non-use	1						
7	L120	COIL	"	1						
8	CRYSTAL SOCKET		"	2						
9	VC108	SEMI VARIABLE CAPACITOR	CTZ31E	1						
10	CH108	CHOKE	LAL03NA-6R8M	1						
11	C103	SOLID CAPACITOR	CERAMIC	depends on frequency range	1					
12	C104	"	"	1						
13	C109	"	"	1						
14	C110	"	"	1						
15	C117	"	"	1						
16	C126	"	"	1						
17	C127	"	"	1						
18	C128	"	DD104 CH050J	1						
19	C158	"	depends on frequency range	1						
20	C162	"	"	1						
21	C163	"	"	1						
22	C164	"	"	1						
23	C166	"	"	1						
24	C177	"	DD104 CH100J	1						
25	C178	"	DD105 CH300J	1						
26	C184	"	depends on frequency range	1						
27	C186	"	"	1						
28	C194	"	DD104 CH200J	1						
29	C198	"	DD104 CH100J	1						
30	C607	"	TANTALUM ELECTROLYTIC	non-use	1					
31	R118	SOLID RESISTOR		ERD-16EJ-103	1					
32	R119	"		ERD-16EJ-102	1					
33	R128	"		ERD-16EJ-222	1					
34	R149	"		non-use	1					
35	R150	"		"	1					
36	C151	SOLID CAPACITOR	TANTALUM ELECTROLYTIC	ECS FIVE3R3	1	3.3u				
37										
38										
39										
承認	検査	製作	型式	SV-1100L-6	回路図 番					

		型式	名称	ATTACHED SHEET			回路定数表	日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考	
1	P.C. BOARD		SV-100L-1125B	1				
2	CONNECTOR		SV-1100-560	1				
3	D401-D423	DIODE						
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承認	検図	製作	型式	SV-1100L-6	回路図 番			

		型式	名称	ATTACHED SHEET			回路定数表	日付
記号	品名	型式	定格	数量	製造会社	引用規格 または図番	備考	
1 D205	DIODE		HZ5C1	1				
2 X201	CRYSTAL	UM-1	20.945MHz	1				
3 FL201	CRYSTAL FILTER		21M15C2	1				
4 FL202	CERAMIC FILTER		KBF-445R-15A	1				
5 R261	SOLID RESISTOR		ERD-16EJ-222	1				
6 R272	"		non-use	1				
7 C216	SOLID CAPACITOR		ECEA1CK100	1		10u/16V		
8 C239	"	CERAMIC	depends on	1				
9 C241	"	"	freq. range	1				
10 C245	"	"	"	1				
11 C247	"	"	"	1				
12 C250	"	"	DD104 CH080J	1				
13 C251	"	"	"	1				
14								
15 R232	SOLID RESISTOR		ERD-16EJ-2R2					
16 R271	"		non-use					
17 R273	"		"					
18								
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承認	検査	製作	型式	SV-1100L-6	回路図番			

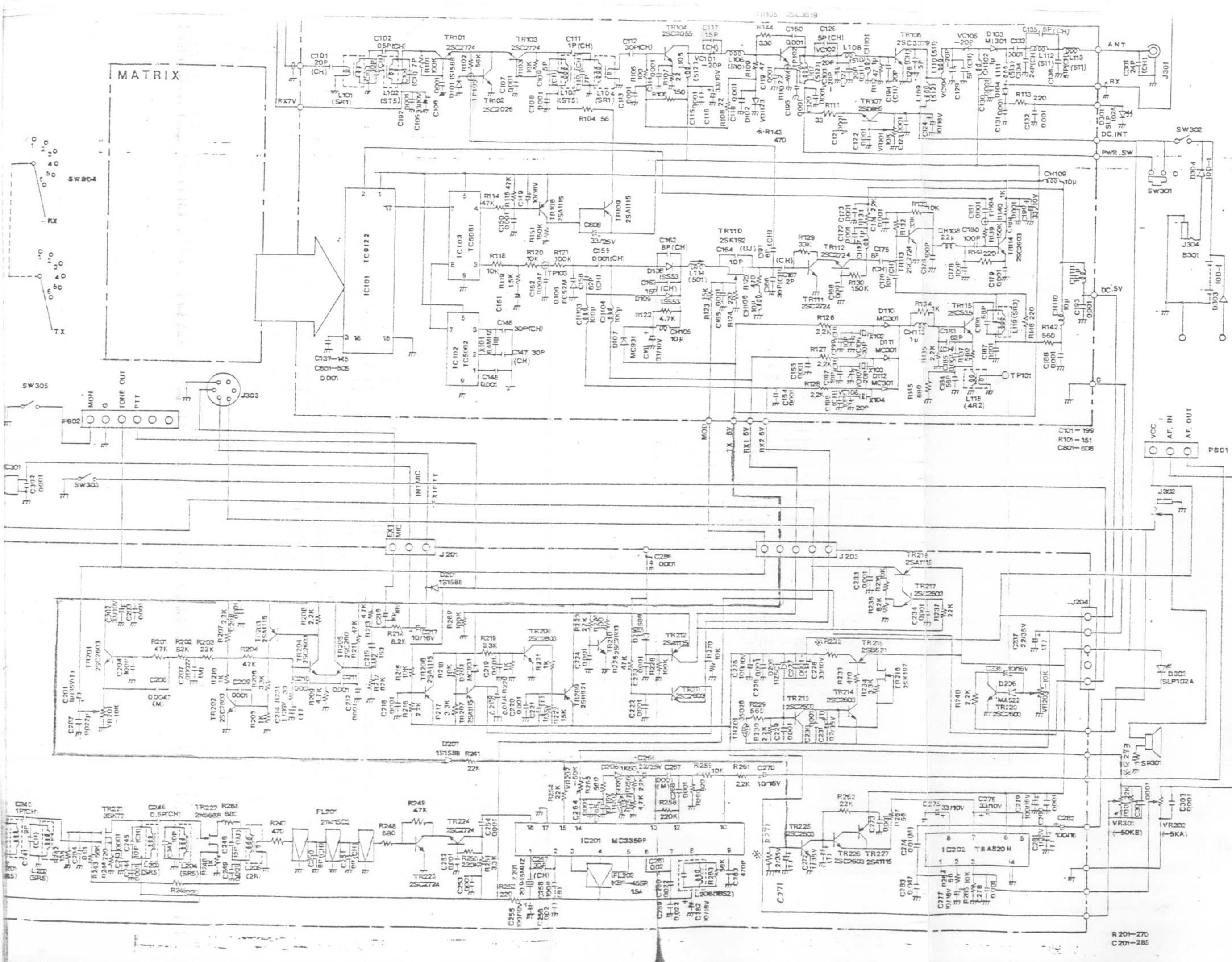
TRUTH TABLE CODE PROGRAMMING

EIA SPECIFICATION			PROGRAM LINES					
#	Group	Frequency HZ	D(0)	D(1)	D(2)	D(3)	D(4)	D(5)
1	A	67.0	1	1	1	1	1	1
2	B	71.9	1	1	1	1	1	0
3	C	74.4	0	1	1	1	1	1
4	A	77.0	1	1	1	1	0	0
5	C	79.7	1	0	1	1	1	1
6	B	82.5	0	1	1	1	1	0
7	C	85.4	0	0	1	1	1	1
8	A	88.5	0	1	1	1	0	0
9	C	91.5	1	1	0	1	1	1
10	B	94.8	1	0	1	1	1	0
11	-	97.4	0	1	0	1	1	1
12	A	100.0	1	0	1	1	0	0
13	B	103.5	0	0	1	1	1	0
14	A	107.2	0	0	1	1	0	0
15	B	110.9	1	1	0	1	1	0
16	A	114.8	1	1	0	1	0	0
17	B	118.8	0	1	0	1	1	0
18	A	123.0	0	1	0	1	0	0
19	B	127.3	1	0	0	1	1	0
20	A	131.8	1	0	0	1	0	0
21	B	136.5	0	0	0	1	1	0
22	A	141.3	0	0	0	1	0	0
23	B	146.2	1	1	1	0	1	0
24	A	151.4	1	1	1	0	0	0
25	B	156.7	0	1	1	0	1	0
26	A	162.2	0	1	1	0	0	0
27	B	167.9	1	0	1	0	1	0
28	A	173.8	1	0	1	0	0	0
29	B	179.9	0	0	1	0	1	0
30	A	186.2	0	0	1	0	0	0
31	B	192.8	1	1	0	0	1	0
32	A	203.5	1	1	0	0	0	0
33	B	210.7	0	1	0	0	1	0
34	A	218.1	0	1	0	0	0	0
35	B	225.7	1	0	0	0	1	0
36	A	233.6	1	0	0	0	0	0
37	B	241.8	0	0	0	0	1	0
38	A	250.3	0	0	0	0	0	0

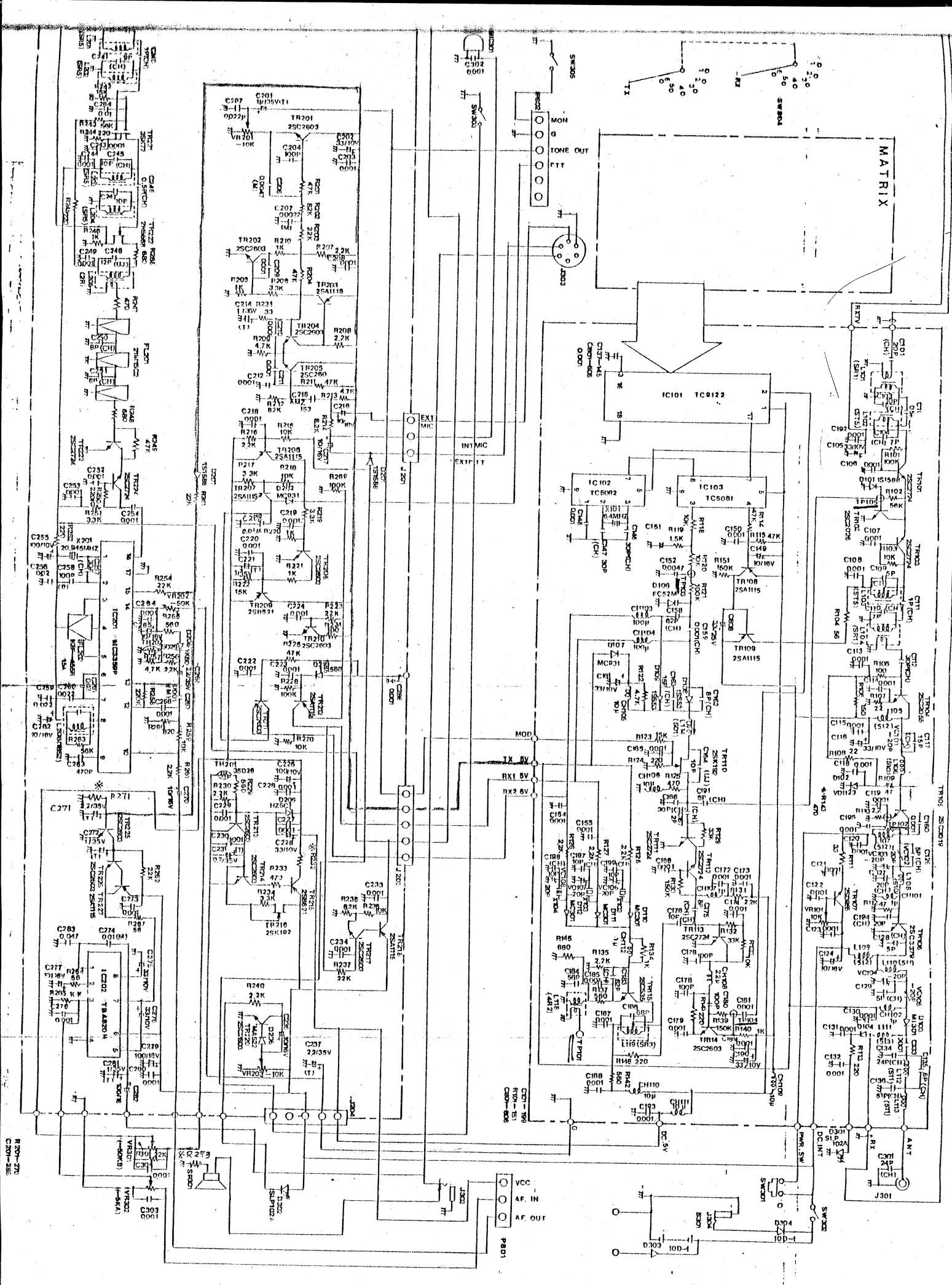


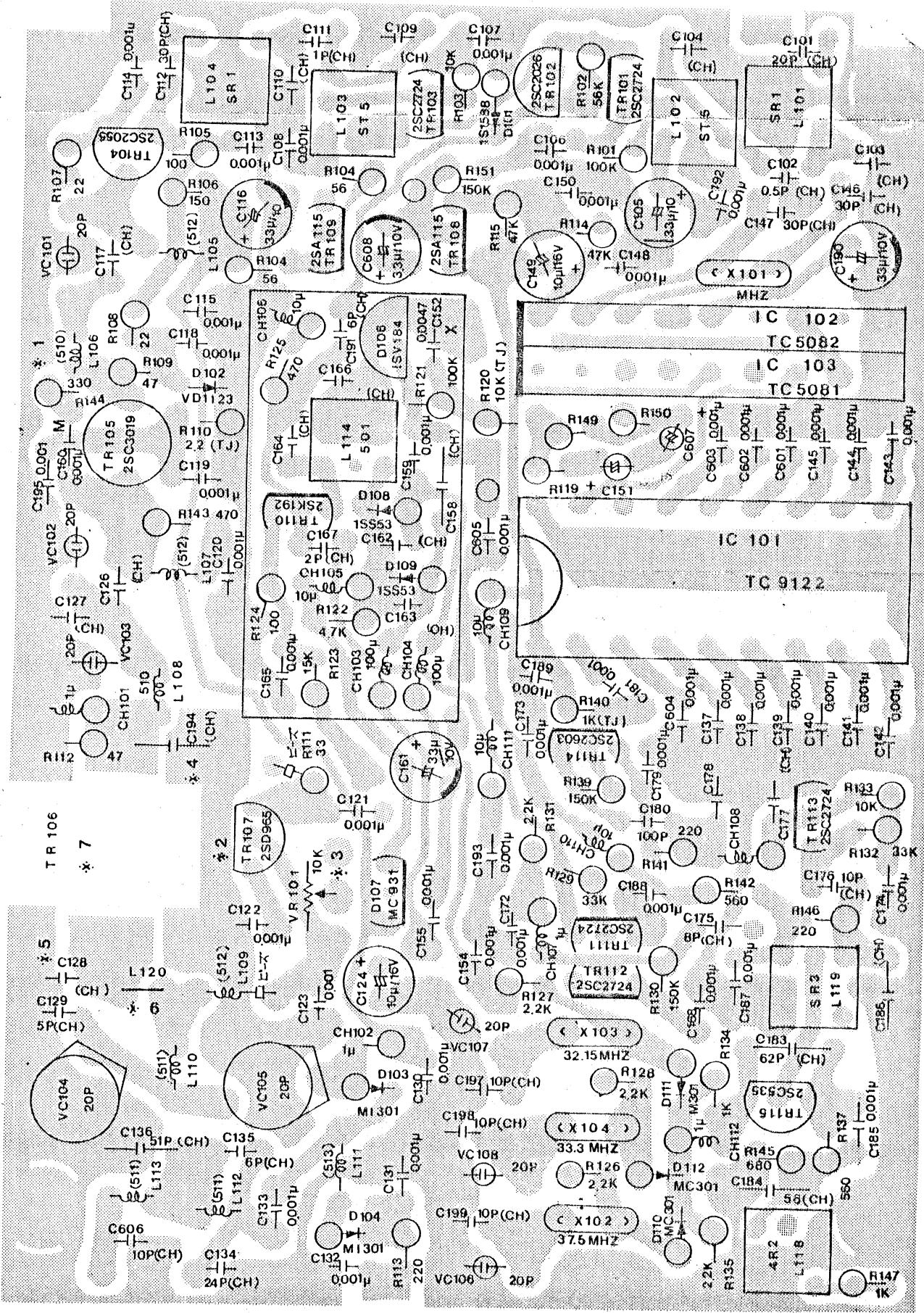
SV-1100L-6 BLOCK DIAGRAM  
(STD.CTCSS)

FREQ BAND	RX 1	TX
135 - 140	24.75	30.10
140 - 145	25.0	31.25
145 - 150	27.25	32.6
150 - 155	28.5	33.85
155 - 160	29.75	35.1
X 160 - 165	31.0	36.35
X 165 - 170	32.25	37.6
170 - 175	33.5	38.85



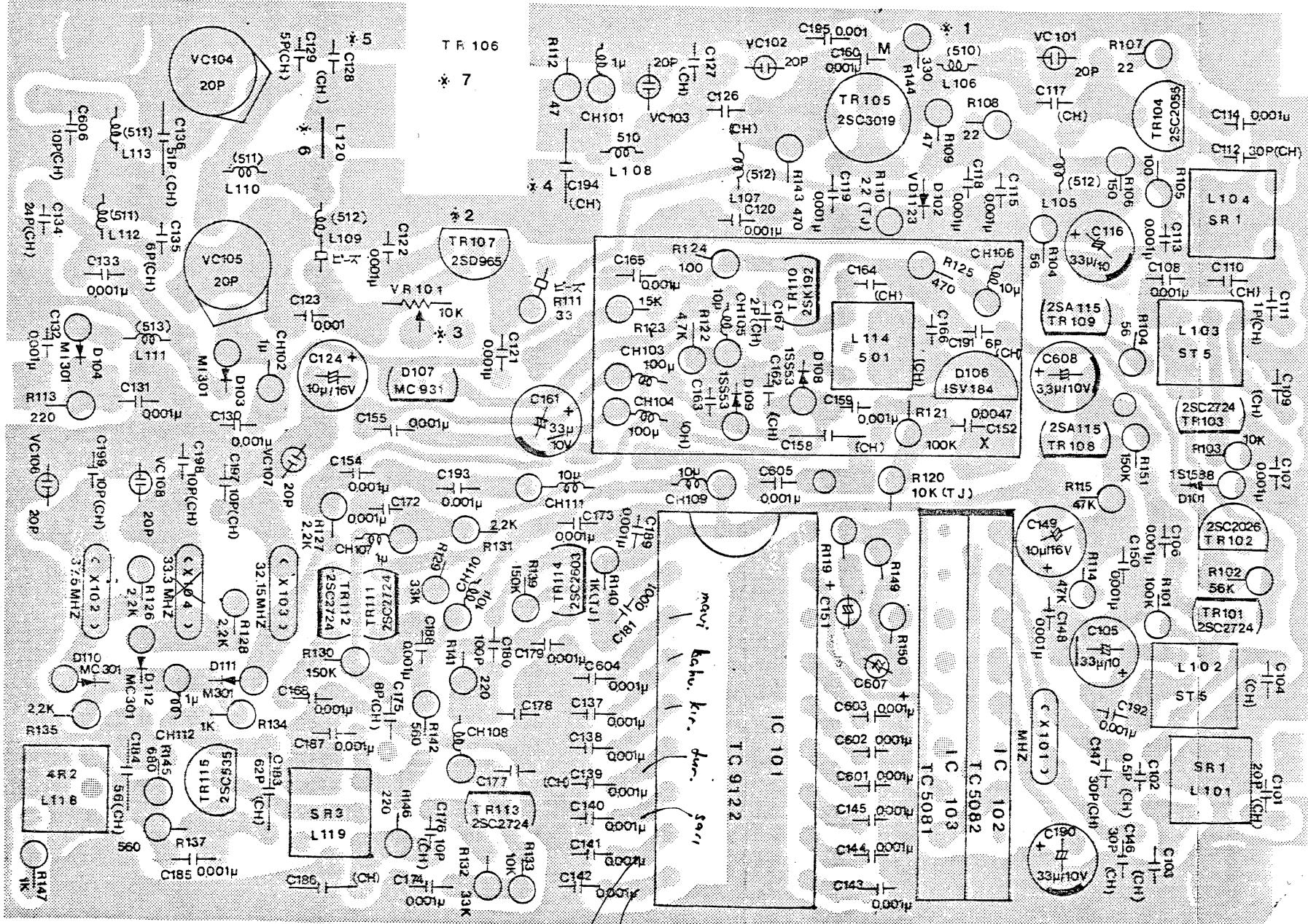
# SV-1100L-CTCSS(STD) SCHEMATIC DIAGRAM

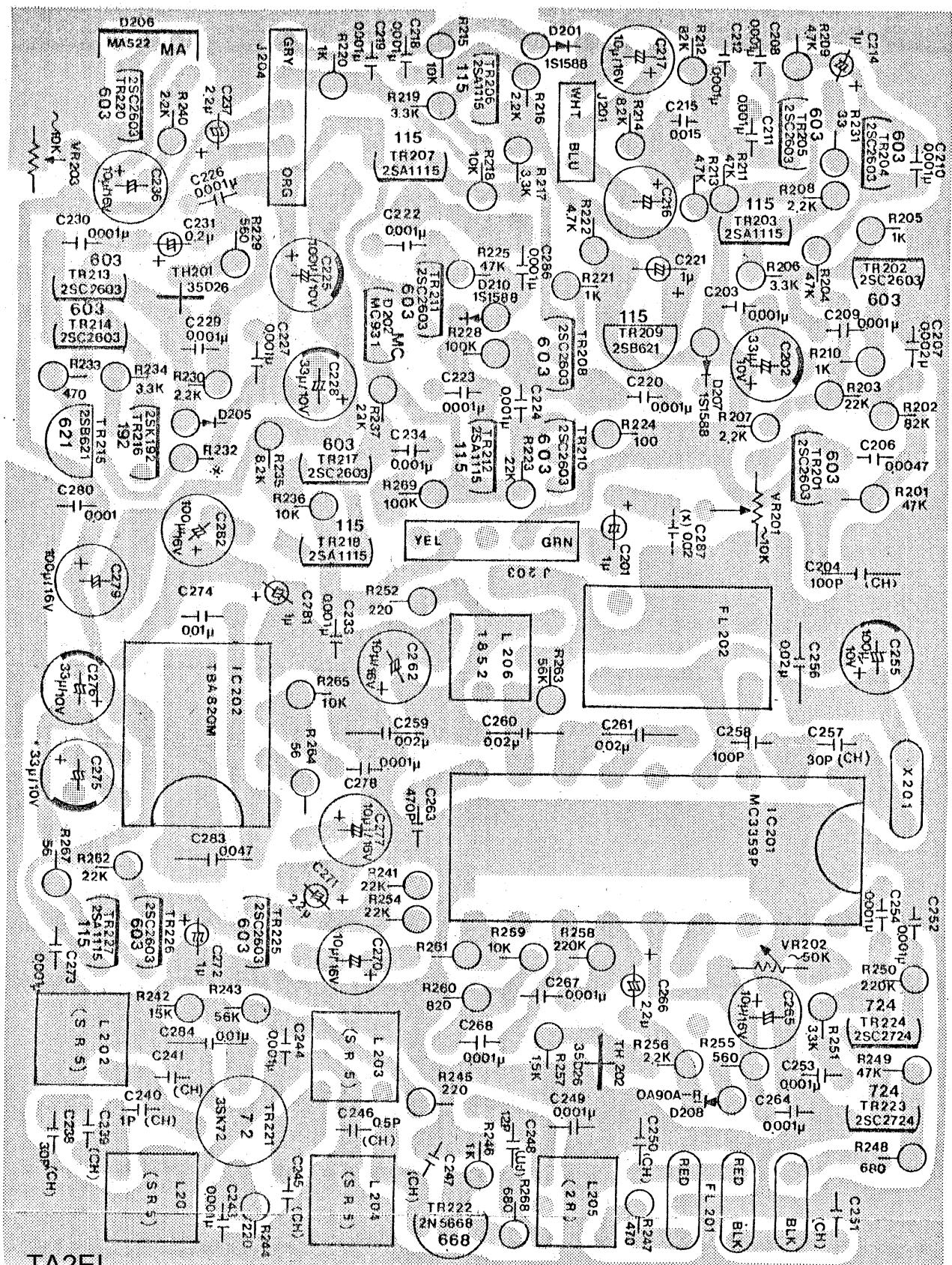




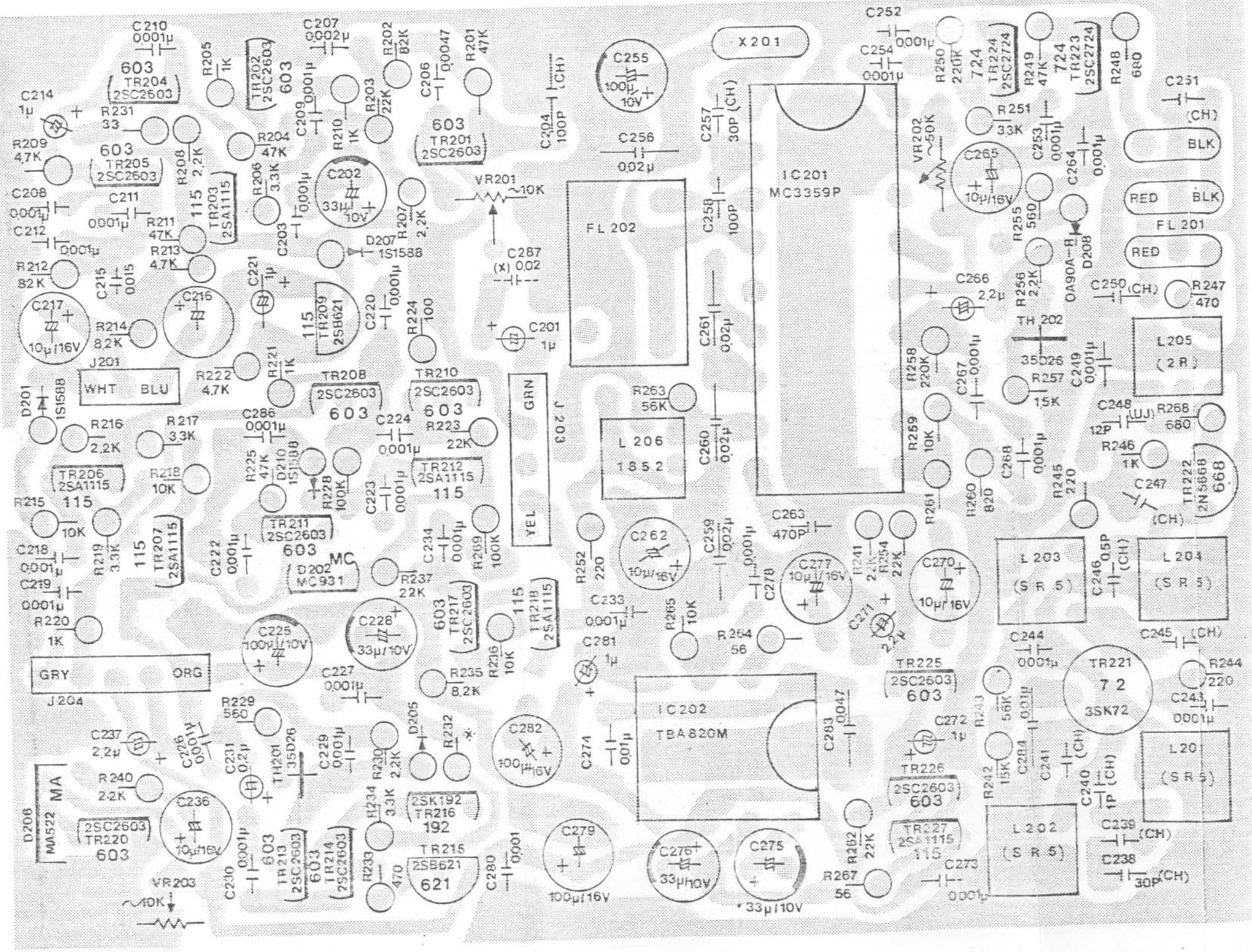
TA2EI



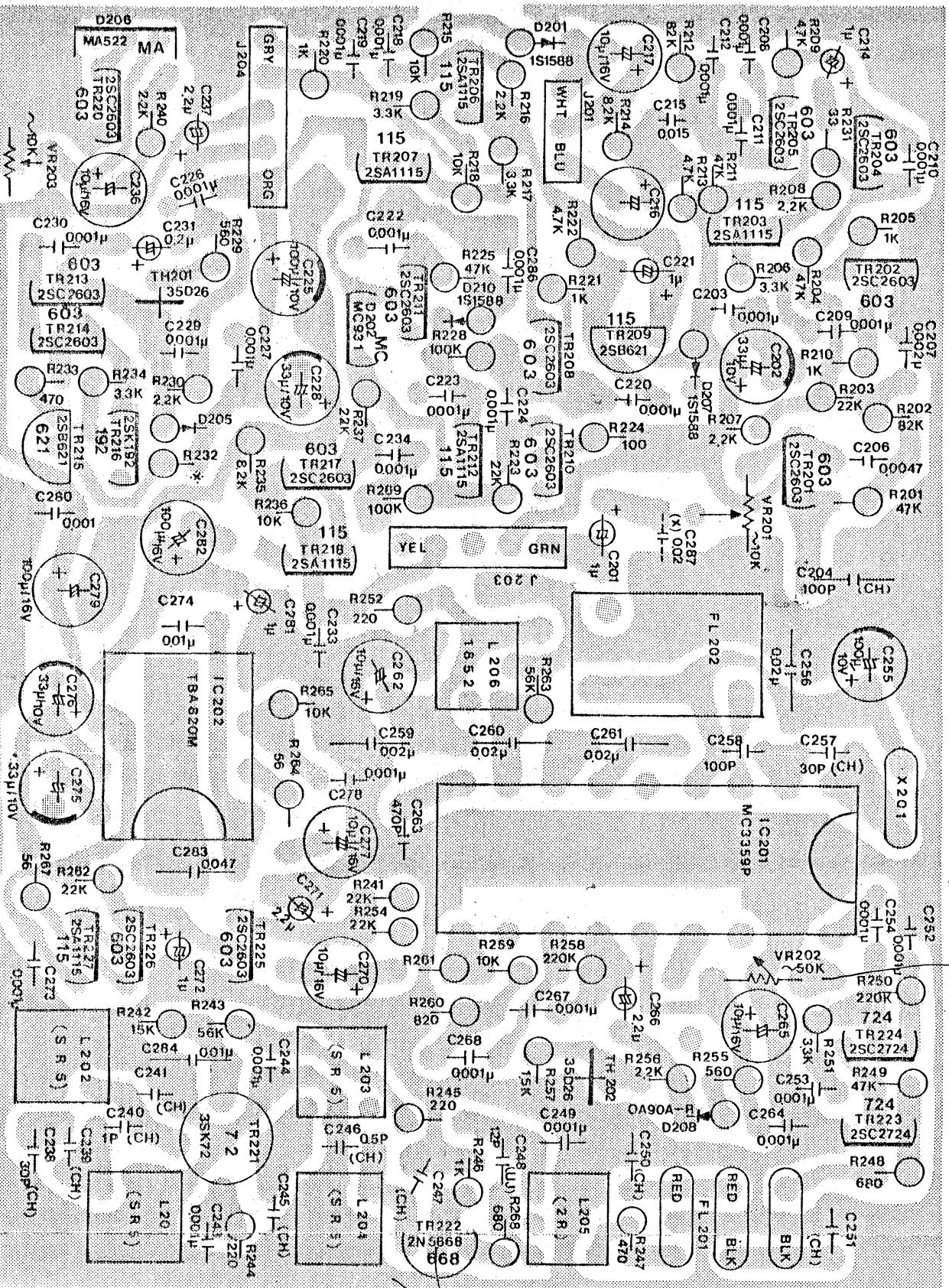




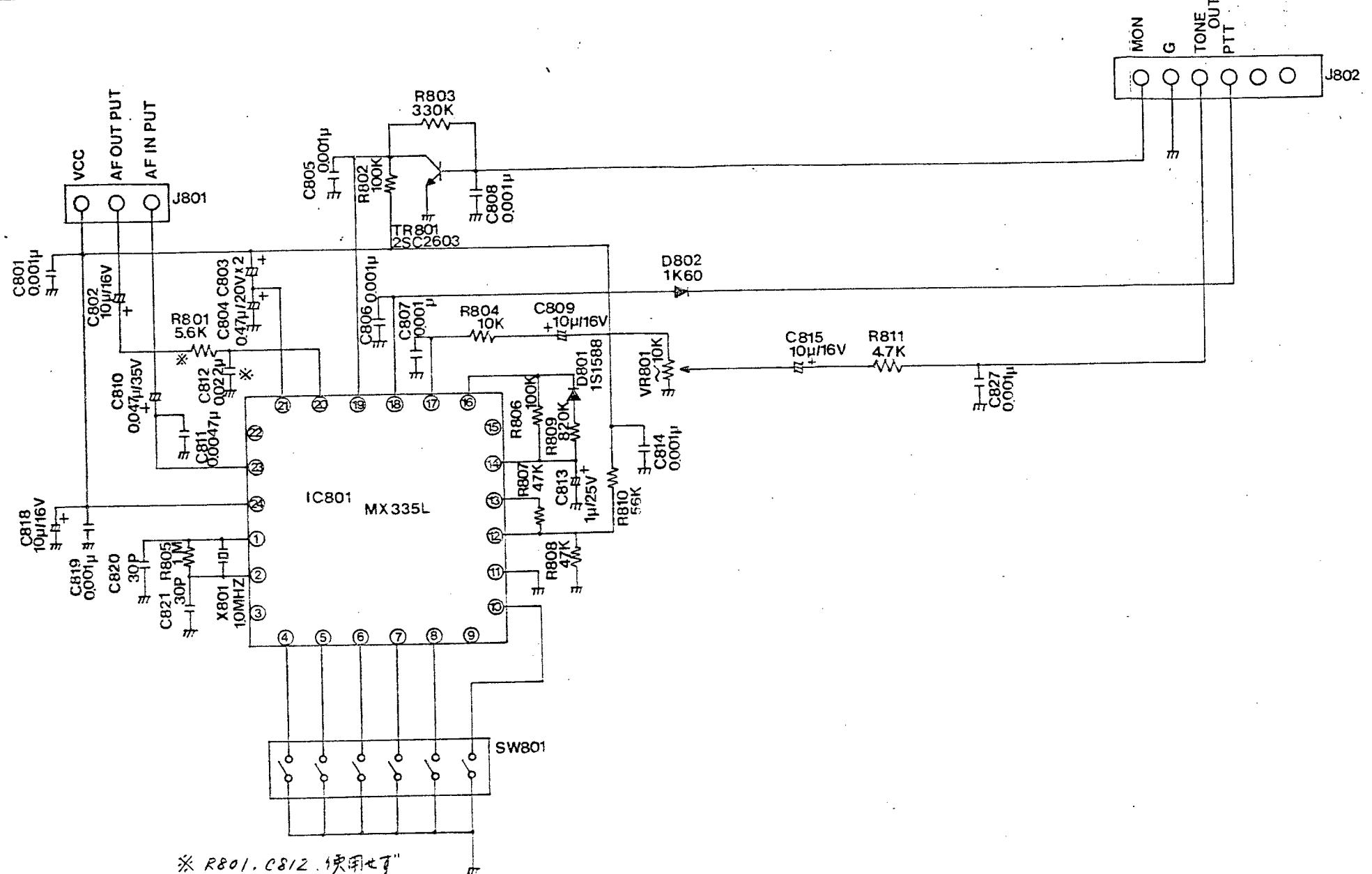
TA2E1



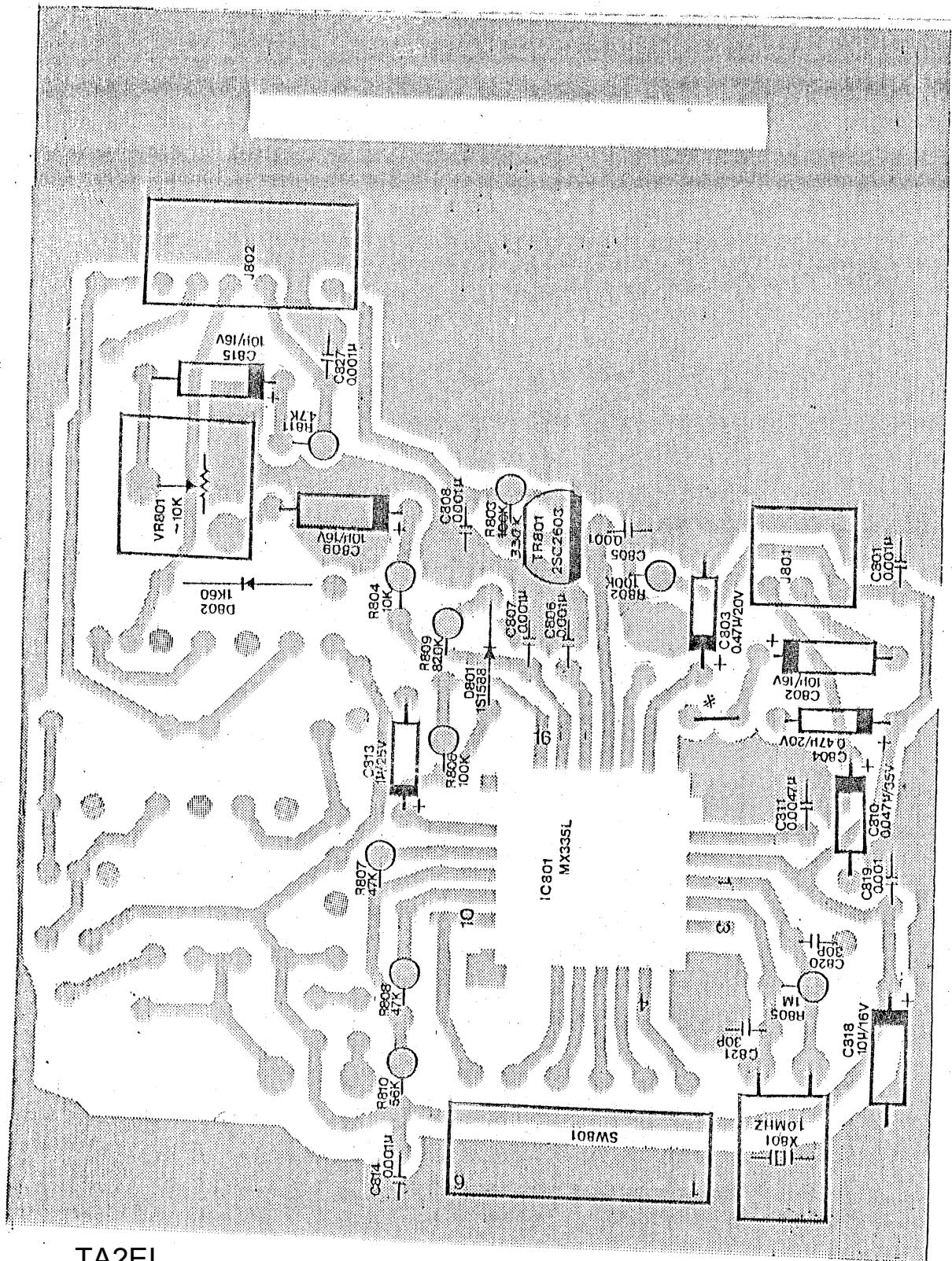
SV-1100L  
(STD.CTC)  
PARTS LIST



TA2E1



APPROVED	60.8.14 J. Mori	三 等 三 角 法 THIRD ANGLE PROJECTION	TITLE	STD. CTCSS
CHECKED		尺 度 SCALE		SCHEMATIC DIAGRAM
DRAWN	60.8.14 田 口	重 量 WEIGHT		DWG.NO. SV-1100-718
REMARKS		MATERIAL	Q'TY	

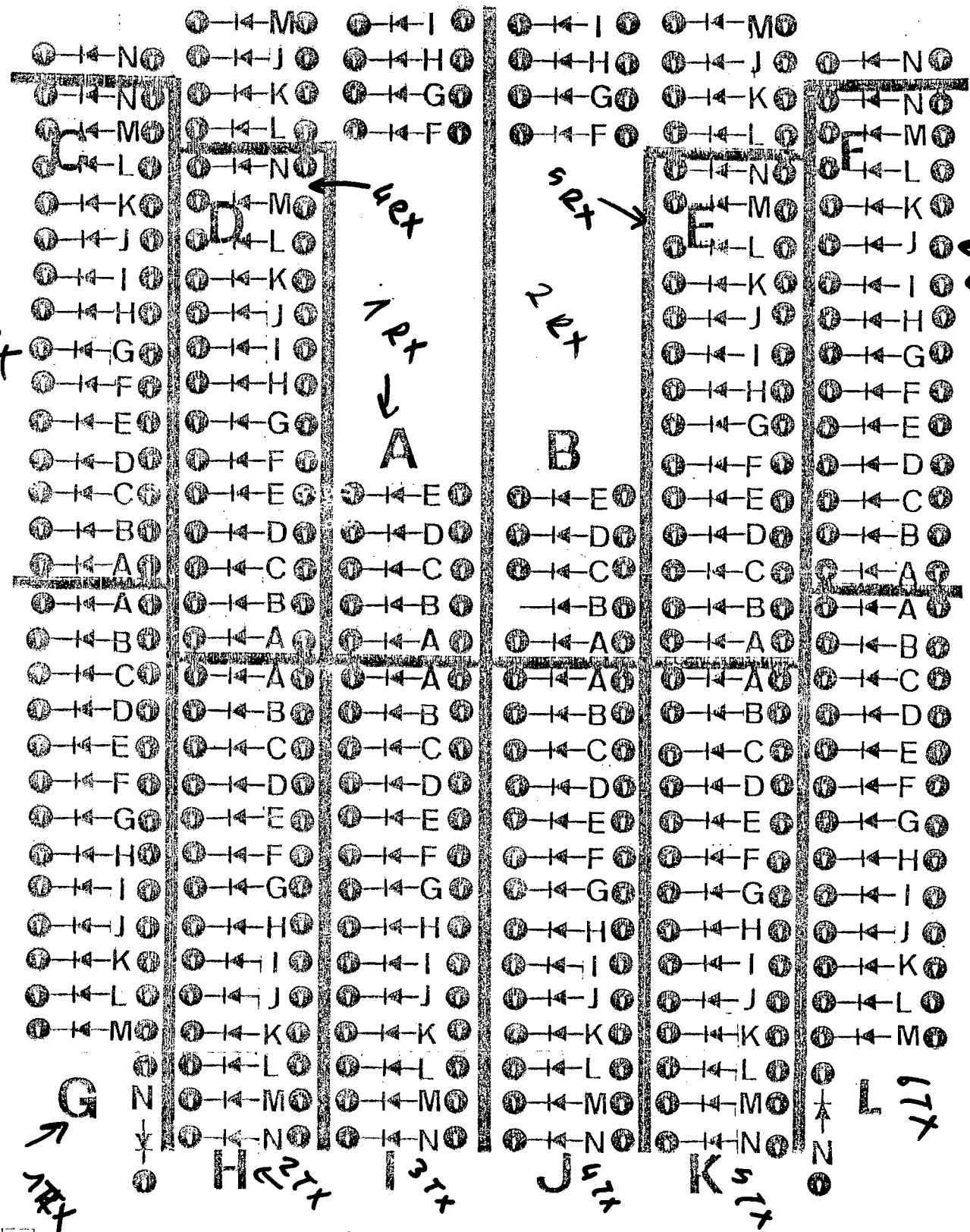


TA2EI

APPROVED:	<input checked="" type="checkbox"/>	✓	3	THIRD ANGLE PROJECTION
CHECKED:	<input type="checkbox"/>	✓	2	SCALE
DRAWN:	<input type="checkbox"/>	✓	1	WEIGHT
DRWNS:	<input checked="" type="checkbox"/>	✓	1	1/15A/mm <sup>2</sup>

備考  
REMARKS

APPROVED	THIRD ANGLE PROJECTION	TITLE
<input checked="" type="checkbox"/>	/	SV-1100L-6 (STD.CTCS)
S. DRAWN	WEIGHT	Q.T.



A 1-ICH RX  
B 2-"  
C 3-"  
D 4-"  
E 5-"  
F 6-"  
G 7-"  
H 8-"  
I 9-"  
J 10-"  
K 11-"  
L 12-"  
M 13-"  
N 14-"  
O 15-"  
P 16-"  
Q 17-"  
R 18-"