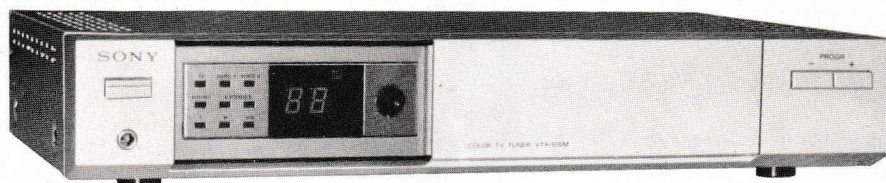


VTX-100M

RM-611

SERVICE MANUAL

AEP Model
Chassis No. SCC-748A-A



February, 1986

SPECIFICATIONS

Television system	CCIR system B, G and H, French system L, System I, American system M, OIRT system D/K	Outputs	MONITOR OUT/S-MONITEUR and TV OUT/S-TV VIDEO (BNC connector) 1 Vp-p, 75 ohms, unbalanced, sync negative AUDIO (2 phono jacks) -5 dBs (436 mV rms), 7 kilohms CONTROL/CONTROLE (minijack) 1-3 Vp-p MULTI OUT/S-MULTI (8-pin socket) Same as the above VIDEO, AUDIO and CONTROL/CONTROLE Headphones (stereo binaural jack) Accepts low and high impedance stereo headphones
Dual sound system	Two carrier system	Power requirements	220 V ac, 50 Hz
Channel coverage	VHF UHF E2-S20 E21-E68 (CCIR) F2-F10 F21-F69 (L) IA-IJ B21-B68 (I) A02-49 A14-A78 (M) R1-R12 R21-R60 (OIRT)	Power consumption	16 W
Programing system	30 programs Automatic programing digital tuning	Dimensions	Approx. 430 x 80 x 265 mm (w/h/d)
Antenna	75-ohm standard antenna socket (DIN45325/IEC169-2)	Weight	Approx. 4.5 kg
Inputs	VIDEO-1 IN/E-VIDEO-1 and VIDEO-2 IN/E-VIDEO-2 VIDEO (BNC connector) 1 Vp-p, 75-ohms, unbalanced, sync negative AUDIO (2 phono jacks) -5 dBs (436 mV rms), 50 kilohms CONTROL/CONTROLE (minijack) 1-3 Vp-p MULTI IN/E-MULTI (8-pin socket) Same as the above VIDEO, AUDIO and CONTROL/CONTROLE	Accessories supplied	Remote Commander RM-611 Video Cable VK-2D (8-pin plug to 8-pin plug, 2m)

Design and specifications subject to change without notice.



ACC

COLOR TV TUNER
SONY®

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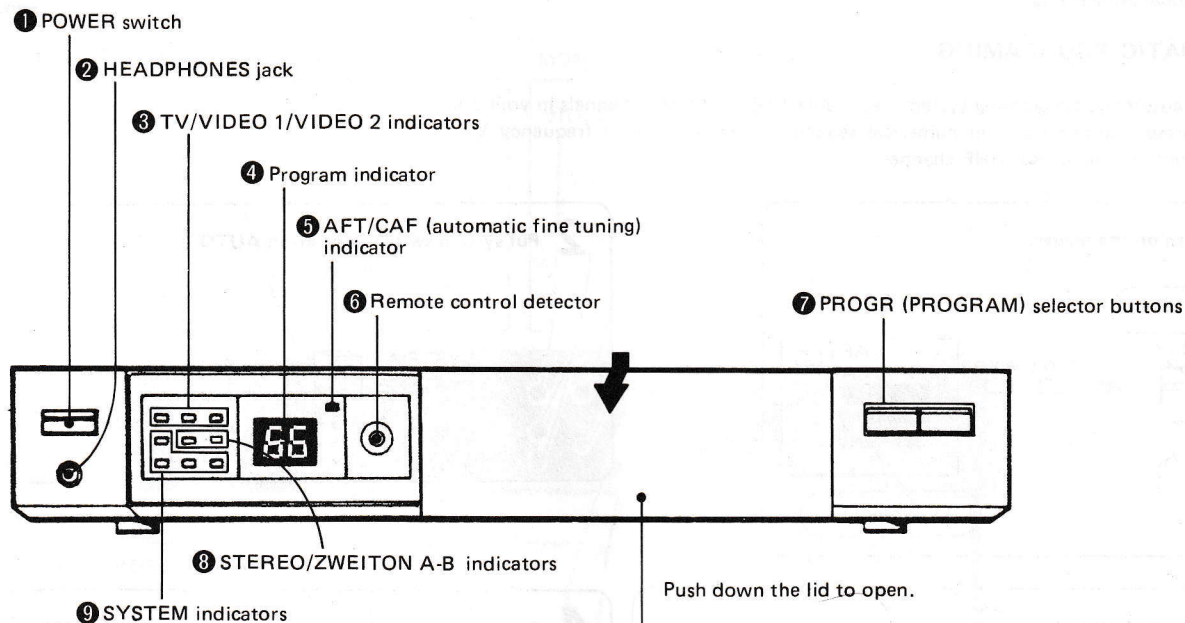
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

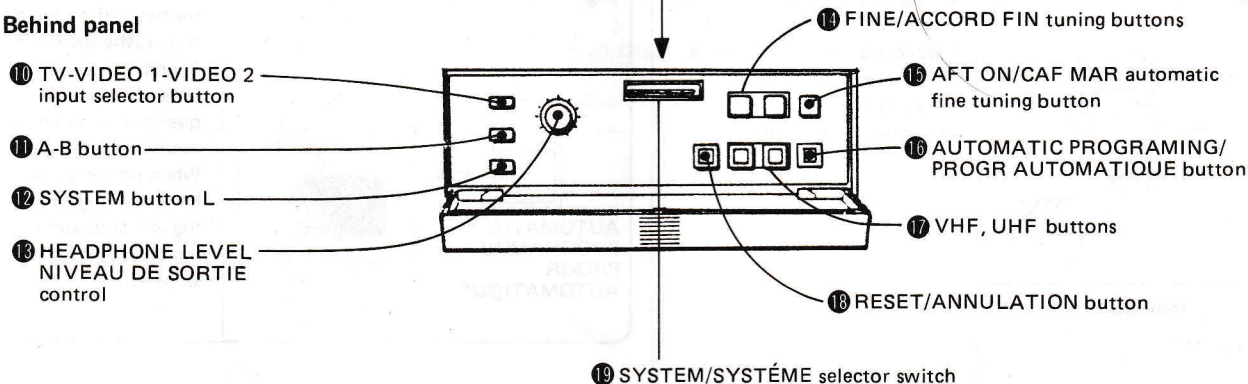
SECTION 1
OUTLINE

1-1. LOCATION AND FUNCTION OF PARTS AND CONTROLS

Front



Behind panel

**① ① (power) switch**

Depress to turn on the power. Press again to turn the power off. When the set is operated with the supplied Remote Commander, be sure to keep this switch depressed.

② (headphones) jack (stereo binaural)

For private listening, connect a stereo headphones to this jack. Any low or high impedance headphones can be connected.

③ TV/VIDEO 1/VIDEO 2 indicators (red)

One of these indicators lights to indicate the selected input.

④ Program indicator (red)

Indicates the program number from 0 to 29. Note that program 30 is indicated by "0".

A dot will blink on the left corner when any function button on the Remote Commander is pressed.

⑤ AFT/CAF indicator (red)

Lights when the AFT/CAF (automatic fine tuning) circuit is activated.

⑥ Remote control detector

Receives the infrared control from the Remote Commander.

⑦ PROGR (program) selector buttons

Press the + button for higher numbered programs, or - button for lower numbered programs.

Every push on these buttons changes the program in sequence.

⑧ STEREO/ZWEITON A-B indicators

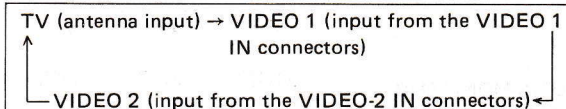
If stereo-program is received, the indicators lamps A and B light up. If dual-sound-program is received indicator A or B lights up.

⑨ System indicators

The appertaining indicators lights up when a transmitter of one of the TV-systems is received.

10 TV-VIDEO 1-VIDEO 2 button

Press to select the input. Every push on this button changes the function in the following sequence.



When the set is turned on, the TV input will be selected automatically.

11 A-B button

When receiving a dual-sound program, select by pressing this button or A/B button on remote control, whether you want to hear the program in your mother language (normally on channel A) or in the original language (normally on channel B).

12 System button L

With this button you can pre-select whether in case of the automatic program selection the channels of the receivable French TV-standard L or the channels of other receivable TV-systems should be stored first. In case of manual program pre-selection you should also use this button in order to select whether the station of French standard L or a station of other receivable systems (B/G/H/I, M or D/K) should be stored.

13 HEADPHONE LEVEL/NIVEAU DE SORTIE CASQUE controls

Turn clockwise to increase the headphones volume, or counter-clockwise to decrease it.

This control does not affect the audio output signals from the MONITOR OUT/S-MONITEUR and TV OUT/S-TV jacks.

14 FINE/ACCORD FIN buttons

Press to fine-tune a channel manually.

Press the + button for higher frequencies, or the - button for lower frequencies.

Once either of the FINE/ACCORD FIN buttons is pressed, the AFT/CAF circuit on the selected channel is deactivated and the AFT/CAF indicator goes off.

15 AFT ON/CAF MAR button

Press to restore the AFT/CAF circuit on the channel which has been fine-tuned manually.

16 AUTOMATIC PROGRAMING/PROG AUTOMATIQUE buttons

Press to program your receivable channels automatically.

For details, see page 6.

17 VHF; UHF buttons

Press to program the channel manually in the desired sequence.

For details, see page 7.

18 RESET/ANNULATION buttons

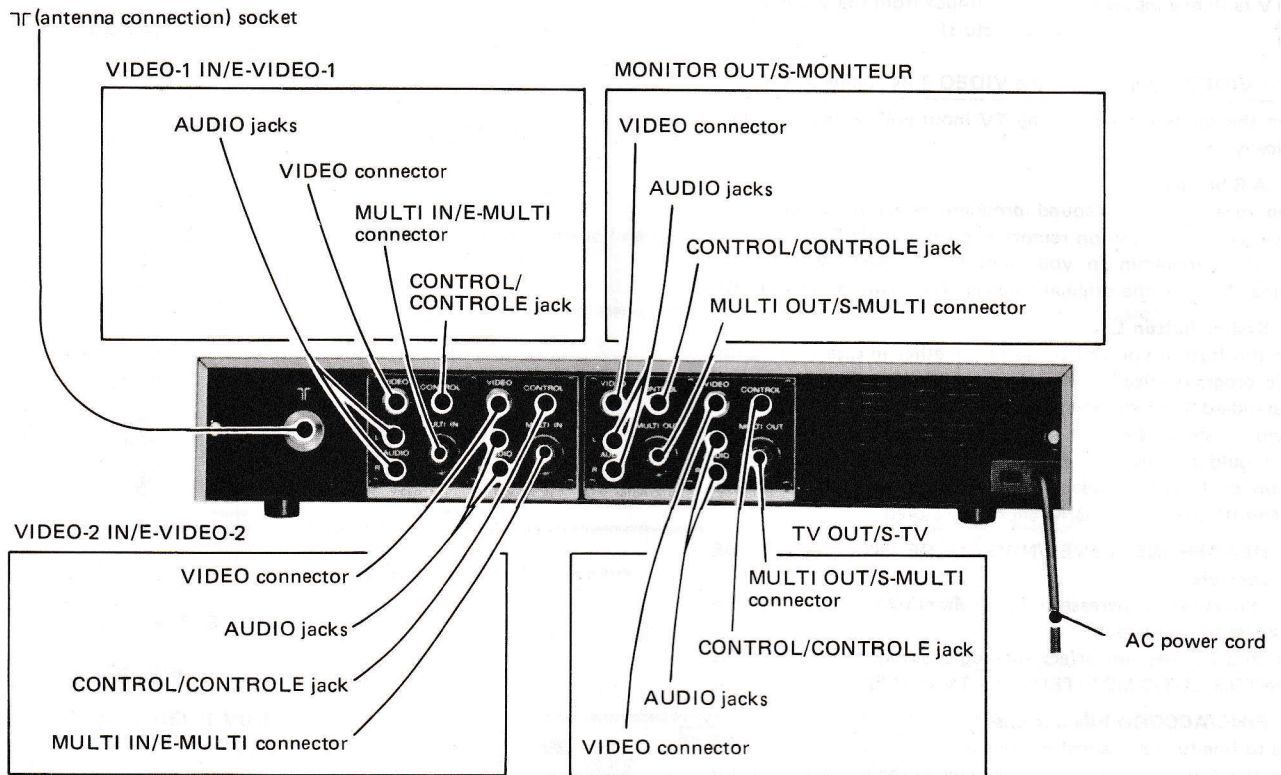
If this button is pressed, the set will be tuned to a frequency below channel 2. For details, see page 7.

19 SYSTEM/SYSTÈME selector switch

The system selector switch should usually be on AUTO position. Only when receiving D/K stations (East European TV-standard) it should be pushed to D/K, otherwise there is not any sound to be heard. All other TV-standards will be automatically recognized and stored.

Position M of slide switch should only be set, if there are difficulties in receiving with system M. Usually these stations are also recognized in AUTO position.

Rear



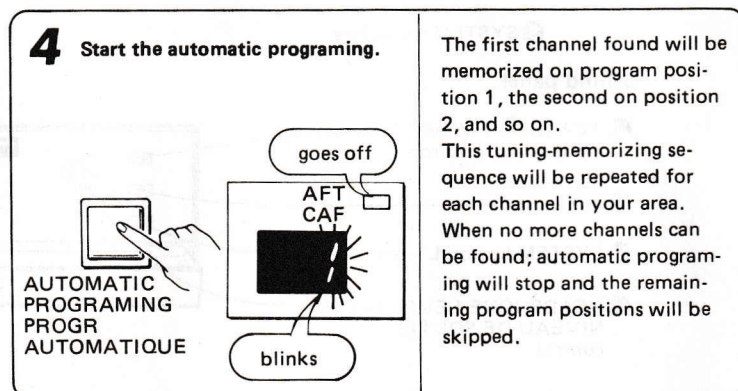
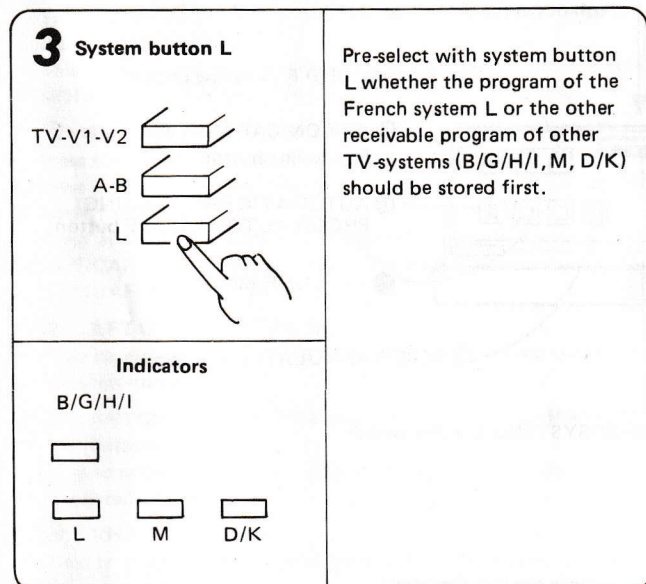
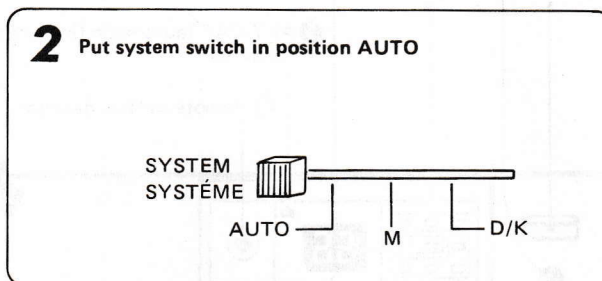
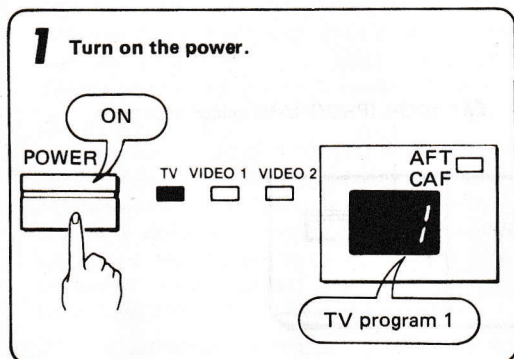
1-2. PROGRAM PRESETTING

This TV tuner has 30 program positions. Once you preset the channels broadcast in your area, program selection is simply made by pressing the PROGRAM buttons on the TV tuner or using the hand-held Remote Commander.

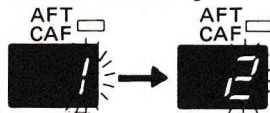
Perform program presetting by following one of the two procedures; automatic programming or manual programming.

AUTOMATIC PROGRAMMING

With the automatic programming system, receivable VHF and UHF channels in your area can be preset automatically in numerical sequence; from the lowest frequency VHF channel through the highest UHF channel.



Guide for automatic programming procedure

	While programming	When the programming is finished
Picture and/or sound	No picture and no sound between stations. When tuned in and memorized, the program will appear.	The program on position 1 will appear.
Program Indicator and AFT/CAF indicator	The number corresponding to the program position being preset will blink continuously. The AFT/CAF indicator does not light. 	The number "1" will appear (not blink). The AFT/CAF indicator will light. 

Remark:

If system switch is not on AUTO position, indicator M or D/K lights up depending on position of slide switch. A system pre-selection (3) with the L-button is not possible any more.

The automatic search mode stores in two runs all programmes of standards M, D/K and B/G/H/I.

After that the indicator returns to program number 1.

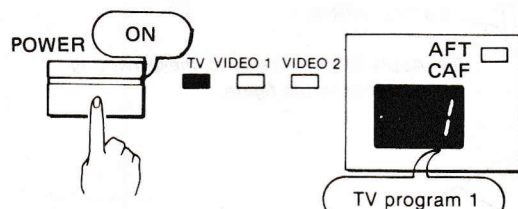
MANUAL PROGRAMING

With the manual program search system, the channels you want can be preset in the desired sequence.

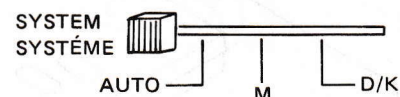
Any program position can be set to any frequency from below channel 2 to the highest UHF TV channel. Consult your local TV listings to find out the active channels in your area.

Make a list of your desired VHF and UHF channels and arrange them in the desired sequence.

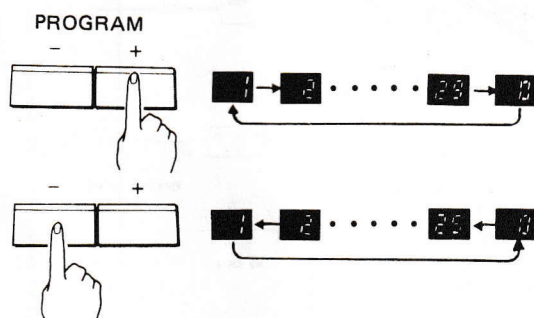
1 Turn on the power.



2 Put system switch in position AUTO

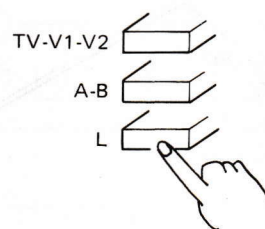


3 Select the program position to which the channel is to be preset.



Do not hold the button in, just press it momentarily.

4 System button L



Select with whether you want to store a station of French system L or other receivable stations of systems B/G/H/I, M or D/K.

Indicators

B/G/H/I



L

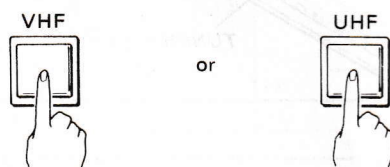


M



D/K

5 Tune in the desired station.



Do not hold the button in, just press it momentarily.

While searching for a station

- No picture appears.
- The program number blinks.
- The AFT/CAF indicator goes off.

When a station is tuned in

- A picture appears.
- The program number stops blinking.
- The AFT/CAF indicator lights.

If searching stops between channels

- This may happen in strong signal areas. Just press the VHF, UHF button again.

Remark:

If the system switch is not set on position AUTO a system pre-selection L is not possible any more. Only the stations of systems, M, D/K, B/G/H/I are stored them.

Repeat steps 3 till 5 until all the desired TV stations have been preselected.

Use of the RESET/ANNULATION button

If this button is pressed, any memory on the selected program position will be erased and the set will be automatically tuned to a frequency below channel 2.

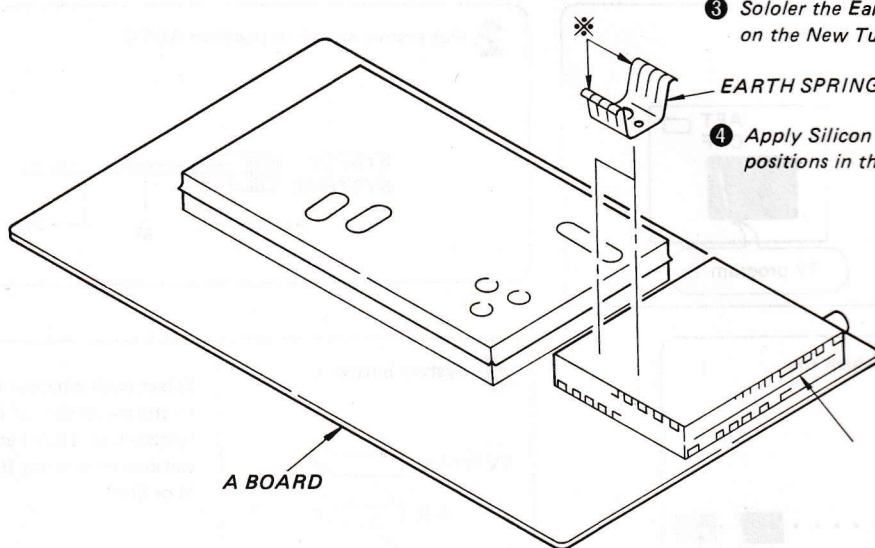
- It is recommended that you press the RESET/ANNULATION button for unused program positions if any.

SECTION 2 DISASSEMBLY

2-1. TUNER REPLACE

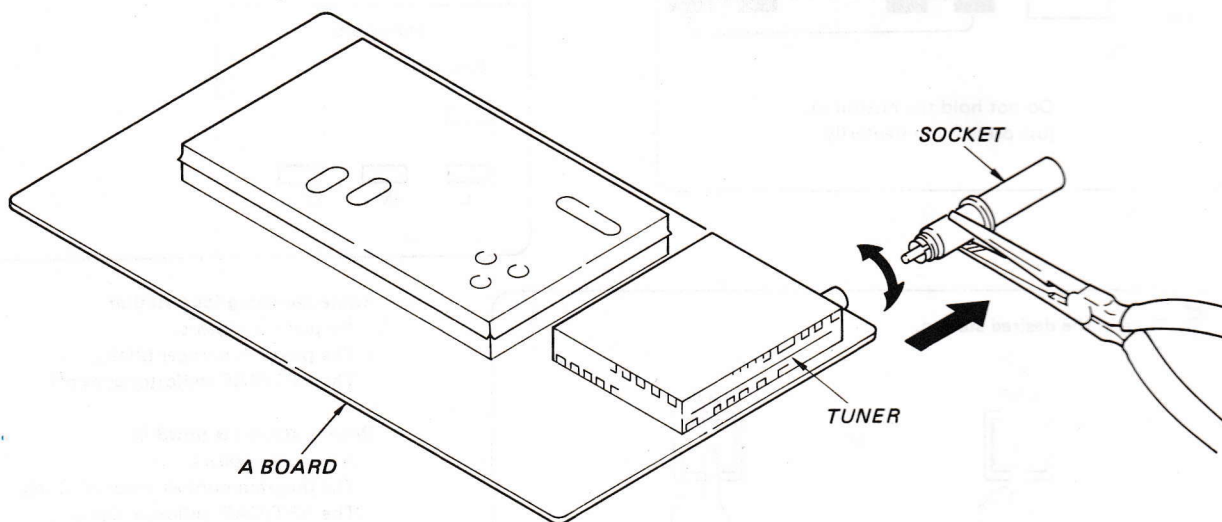
When the Tuner is replaced, please follow the procedure as shown bellow.

- ① Remove the Earth Spring.
- ② Replace the Tuner.
- ③ Sololer the Earth Spring which was removed ① on the New Tuner.



- ④ Apply Silicon Grease to the※marking positions in the figure.

2-2. SOCKET REMOVAL



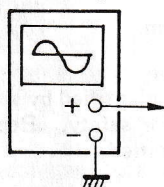
SECTION 3 CIRCUIT ADJUSTMENTS

3-1. A BOARD ADJUSTMENT

STEREO SEPARATION

1. Receive stereo RF signal.
2. Check the TV(L) waveform at M-8 connector with the oscilloscope.
3. Adjust RV251 so that Right signal is smallest.

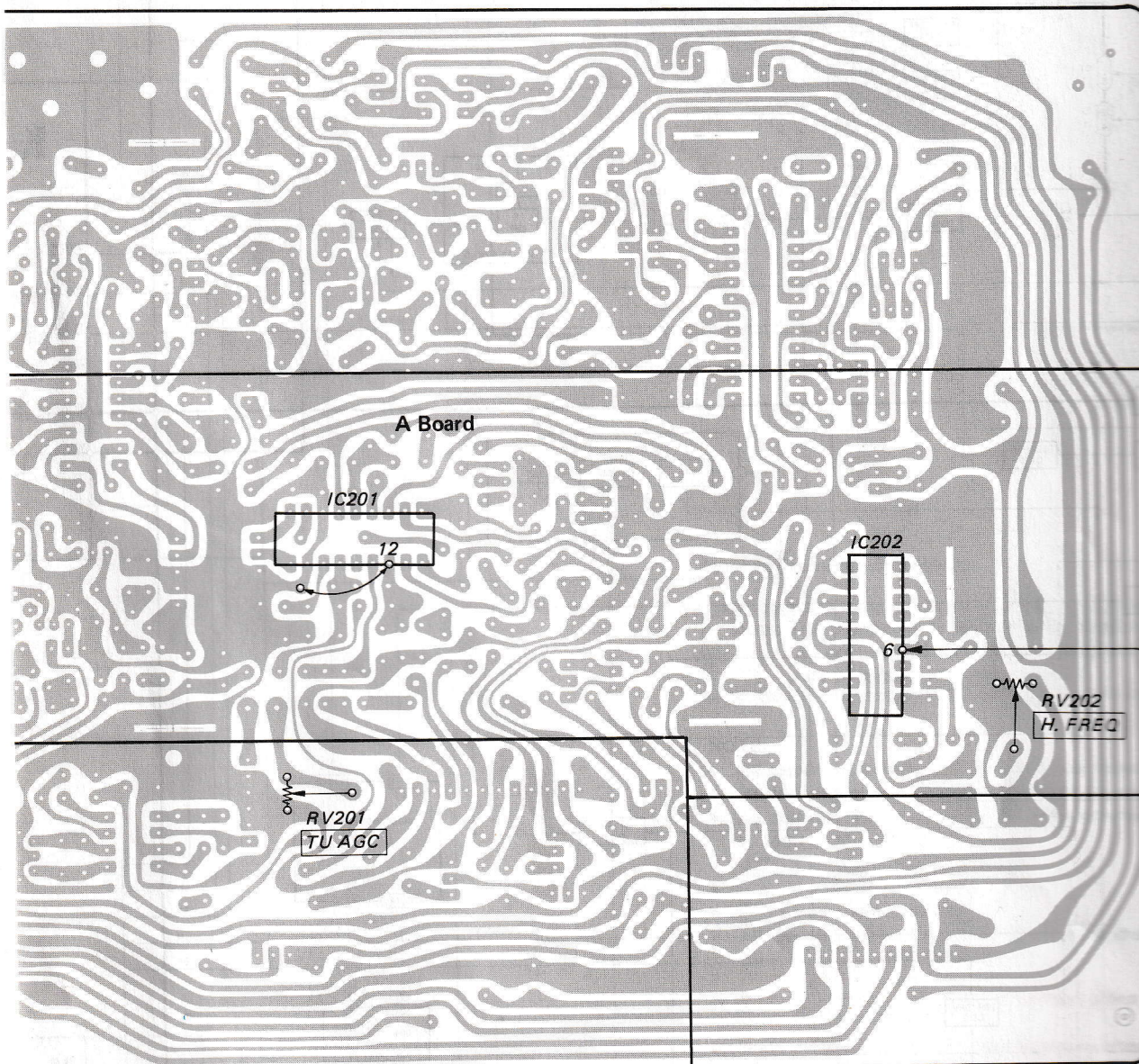
oscilloscope



RV251
SEP

TU AGC

1. Receive 62dBμ
2. Adjust RV201
an easier method
1. Turn in an
2. Adjust RV.
tion just dis



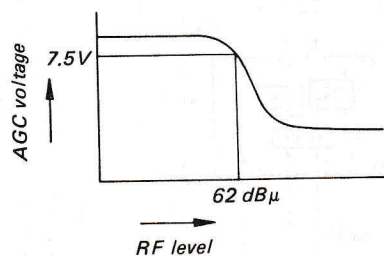
H. Freq

1. Short circuit between pin 6 and pin 12 with jumper wire.
2. Receive the PAL Color-bar signal.
3. Connect an Frequency counter to pin 6.
4. Adjust RV202 to obtain 100 MHz.

Frequency counter



pe-12CH signal.
that AGC voltage is $7.5 \pm 0.2V$ OR as
signal.
that snow-noise and crossmodulation
from the Picture



3-2. TV SYSTEMS LIST

	TV SYSTEMS					
	L(BAND I)	L(BAND III_U)	B/G/H	I	M	D/K
SYS (M3④→A1④)	L	L	H	H	H	L/H
L (A2⑥→M12⑥)	H	H	L	L	L	L
L1 (A2⑨→M12⑨)	H	L	L	L	L	L
L2 (A2⑩→M12⑩)	L	H	H	H	H	H
Q226, IC203	OFF	OFF	ON	ON	ON	ON
IC501, Q501	ON	ON	OFF	OFF	OFF	OFF
D501~D504	OFF	ON	ON	ON	ON	ON
IC502	OFF	OFF	ON	ON	ON	OFF
IC205	OFF	OFF	OFF	OFF	ON	ON
Q510/D521 D505	OFF/ON	OFF/ON	ON/OFF	ON/OFF	OFF/ON	OFF/ON
IC501(AF IN)	①, ⑬pin	①, ⑬	④, ⑥	④, ⑥	①, ⑬	①, ⑬
Q506, 507	OFF	OFF	ON	ON	OFF	OFF
Q156	OFF	OFF	ON	OFF	ON	OFF
Q170	OFF	OFF	OFF	OFF	OFF	ON
M (A2⑪→M12⑪)	L	L	L	L	H	L
D/K (A2⑫→M12⑫)	L	L	L	L	L	H
B/G (A1⑩→M3⑩)	L	L	H	L	L	L
D201, D202	OFF	ON	ON	ON	ON	ON
D203	ON	ON	OFF	ON	ON	ON
D210(5.5M/6.0M)	OFF/ON	OFF/ON	ON/OFF	OFF/ON	OFF/ON	OFF/ON
Q210	OFF	OFF	ON	OFF	OFF	OFF
Q214	OFF	OFF	OFF	ON	OFF	OFF
Q225	OFF	OFF	OFF	OFF	ON	OFF
D215	ON	ON	OFF	OFF	ON	OFF
Q202/Q157	OFF	OFF	OFF	OFF	ON	OFF
Q204	OFF	OFF	OFF	OFF	ON	OFF
Q502, D511	OFF	OFF	OFF	OFF	ON	ON

between pin ⑫ of IC201 and ground
Color-bar signal.
Frequency counter to the pin ⑥ of IC202.
obtain 15.625 ± 50 Hz.

BAND SW (IC101)

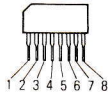
BAND	IN PUT		OUT PUT		
	③	④	①	②	⑦
I	L	H	H	L	L
III	L	L	L	L	H
U	H	L	L	H	L

IN PUT OUT PUT
L : 1V below H $\approx$ 12V
H : 3V above

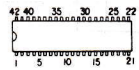
SECTION 4 DIAGRAMS

4-1. SEMICONDUCTORS

CX20106A
M54570L
M54572L



CX523-113P

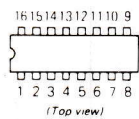


(Top view)

CX894

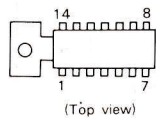


HD14027BP
HD14052BP



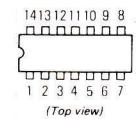
(Top view)

LA4175



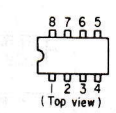
(Top view)

M58657P
TDA4445F
TDA4944



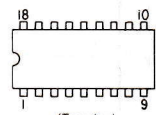
(Top view)

TBA129



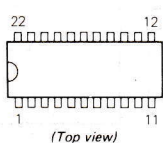
(Top view)

TDA2546A
TDA2595A
TDA4429T



(Top view)

TDA4940



(Top view)

μPC574



2SA1048
2SC403SP
2SC2458
DTA144ES
DTC124ES
DTC144ES
DTC143TS



2SA1175
2SC2785



2SB733



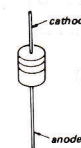
2SB772



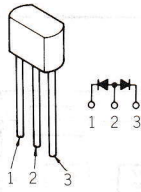
2SD788
BF199
BF959



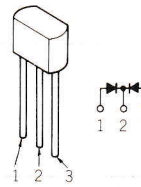
1SS119
1SS168



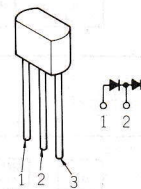
MC911



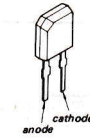
MC921



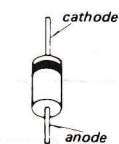
MC931



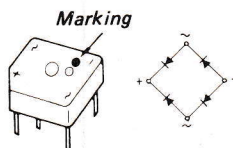
PH302B



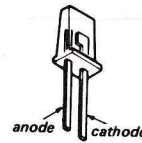
RD10E-B1
RD20E-B2
RD22E-B2
RD30E-B2
RD39JS-T1B1
RD6.8E-B3



S3WB60Z



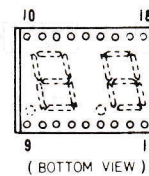
SG232D
SR632D



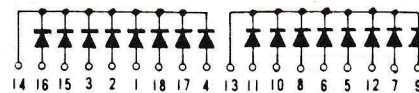
SIB01-02



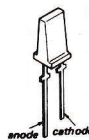
SL1274



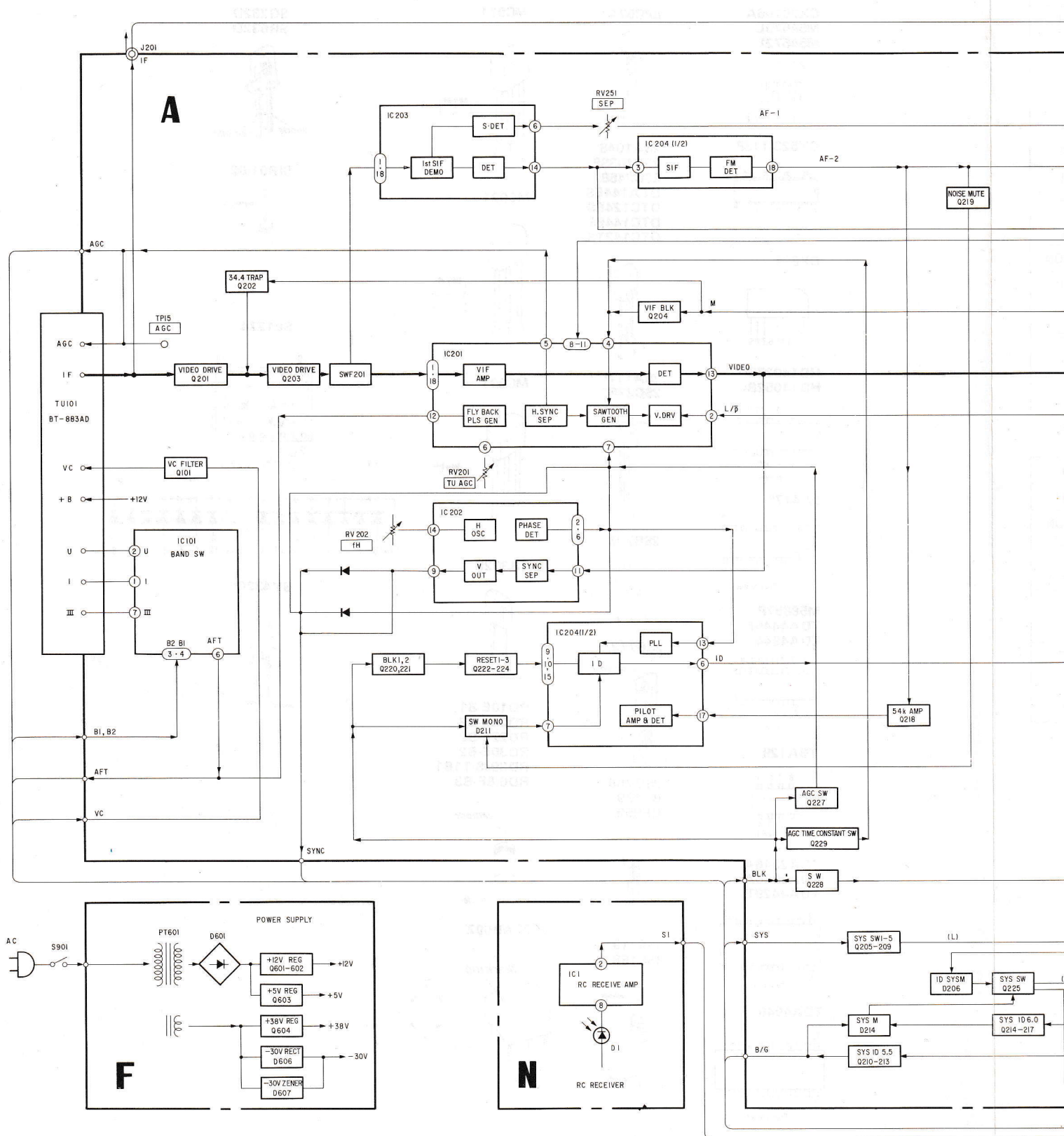
(Bottom view)



SY432D



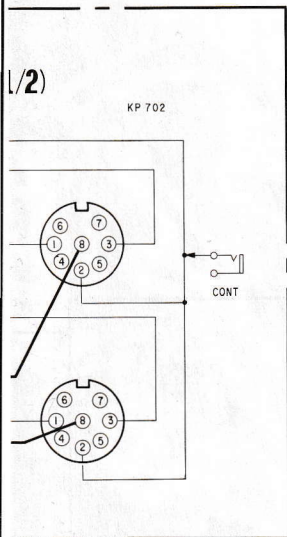
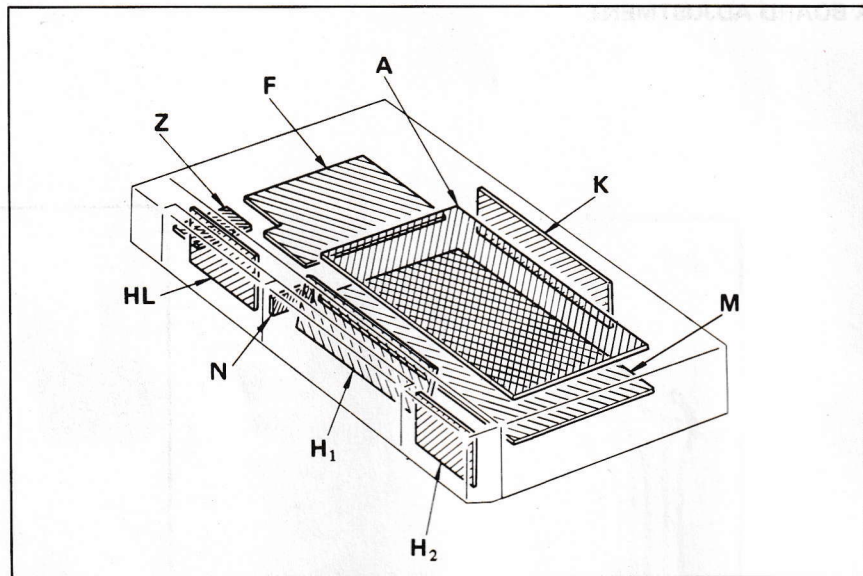
4-2. BLOCK DIAGRAM







4-3. CIRCUIT BOARDS LOCATION

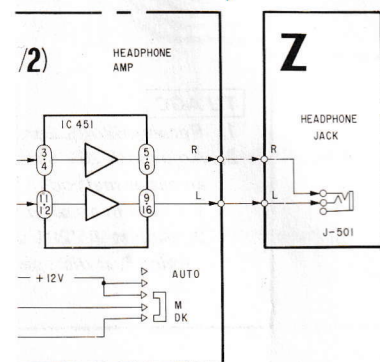


Note for schematic diagram.

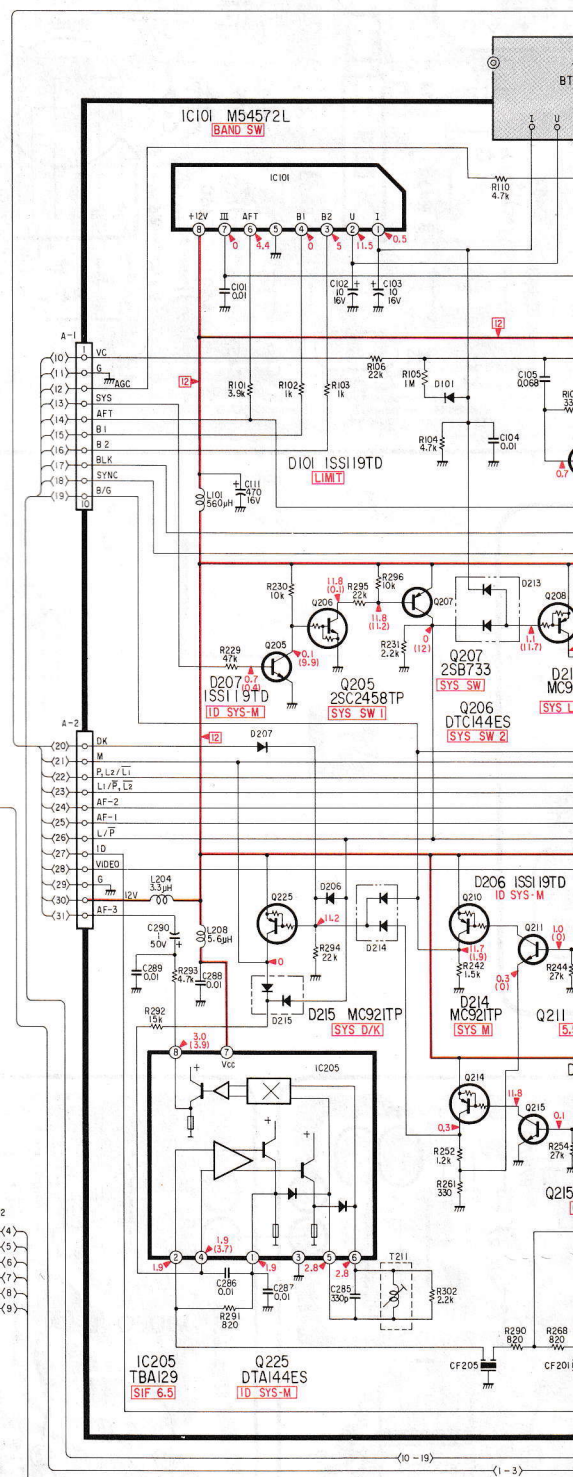
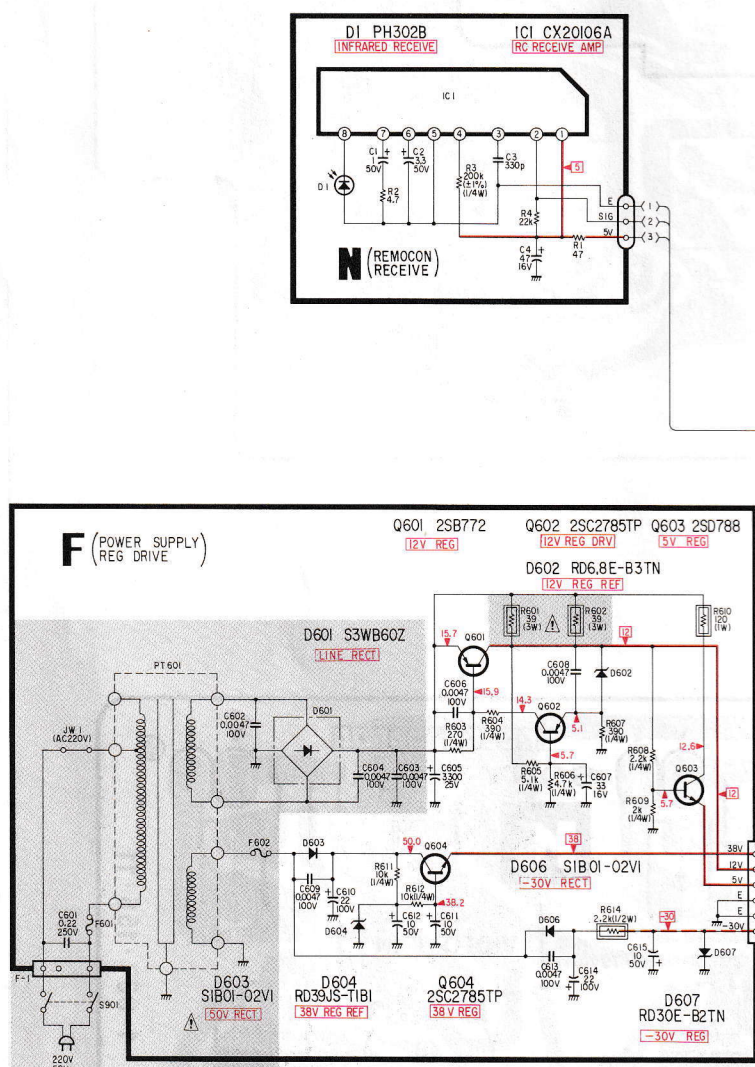
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

NOTE:

- All capacitors are in μF unless otherwise noted. pF; μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{8}\text{W}$ unless otherwise noted. k: 1000 Ω , M: 1000 $\text{k}\Omega$
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10M Ω digital multimeter
- Voltages are taken with set selected to CH-46 (UHF) position.
-  : adjustment for repair.
- Readings are taken with a system G stereo signal input.
- Voltage variations may be noted due to normal production tolerances.
- No mark : CCIR system B, G, and H
() : French system L
-  : B+ bus
-  : B- bus



4.4. SCHEMATIC DIAGRAM





16

17

18

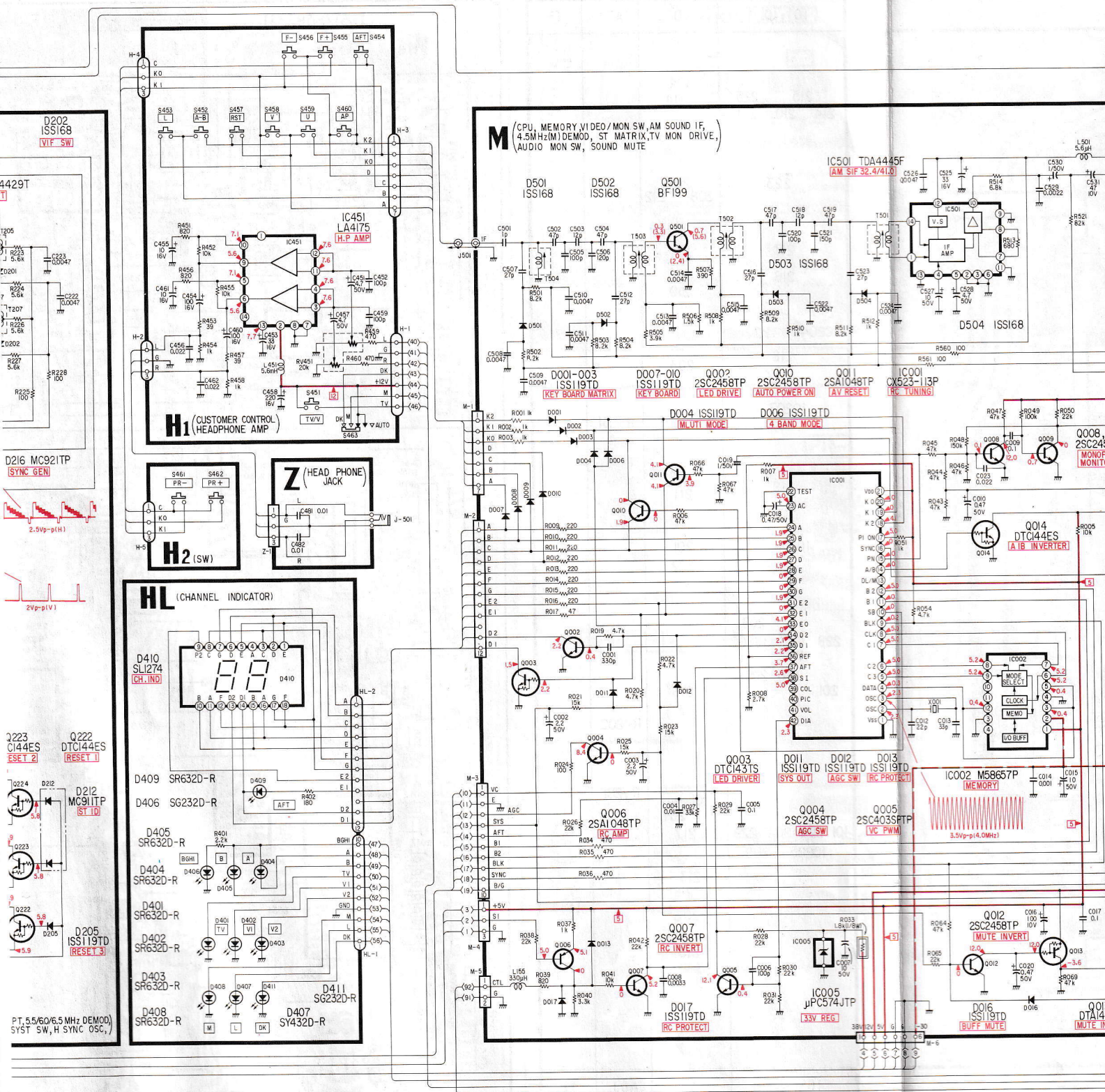
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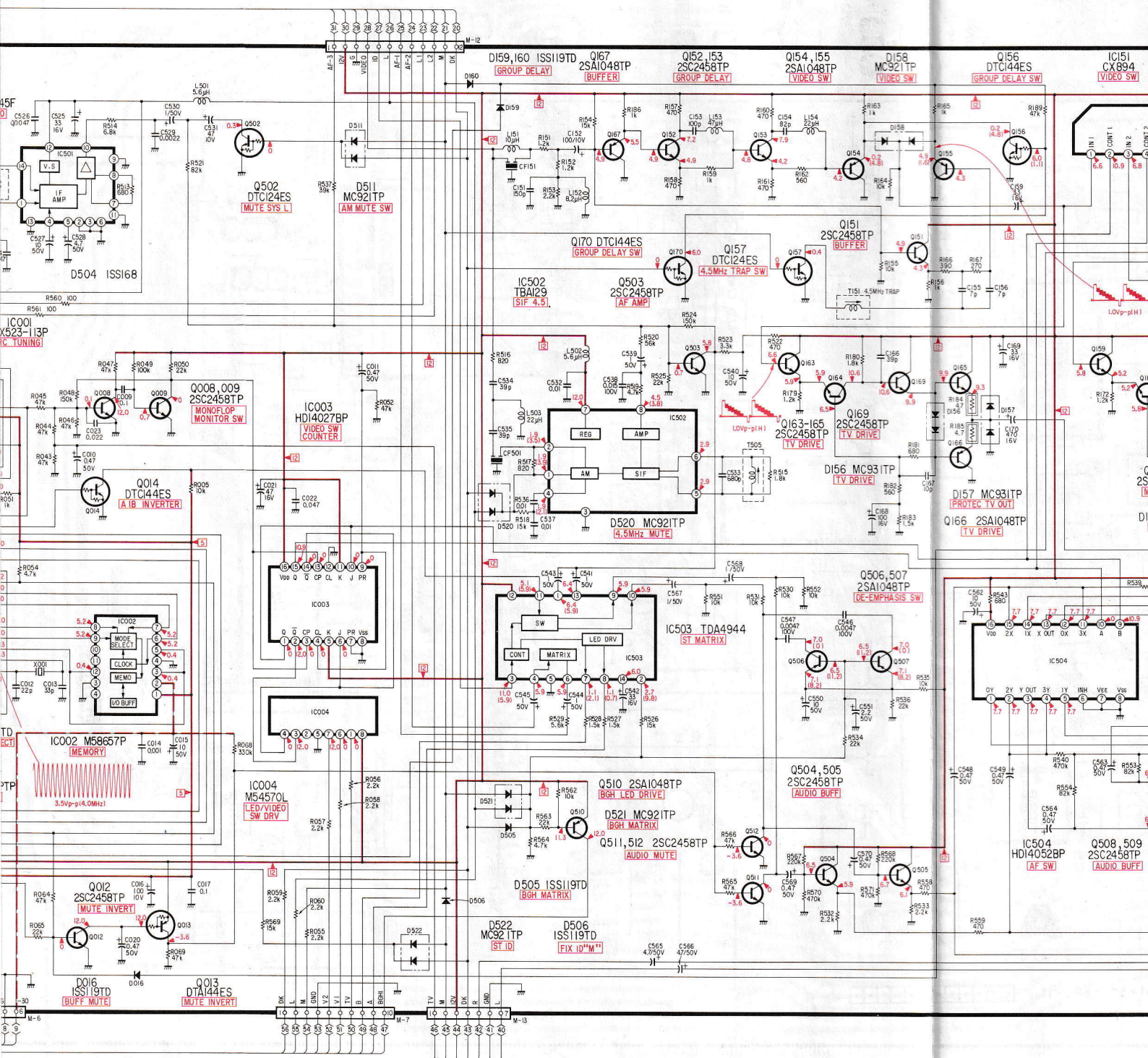
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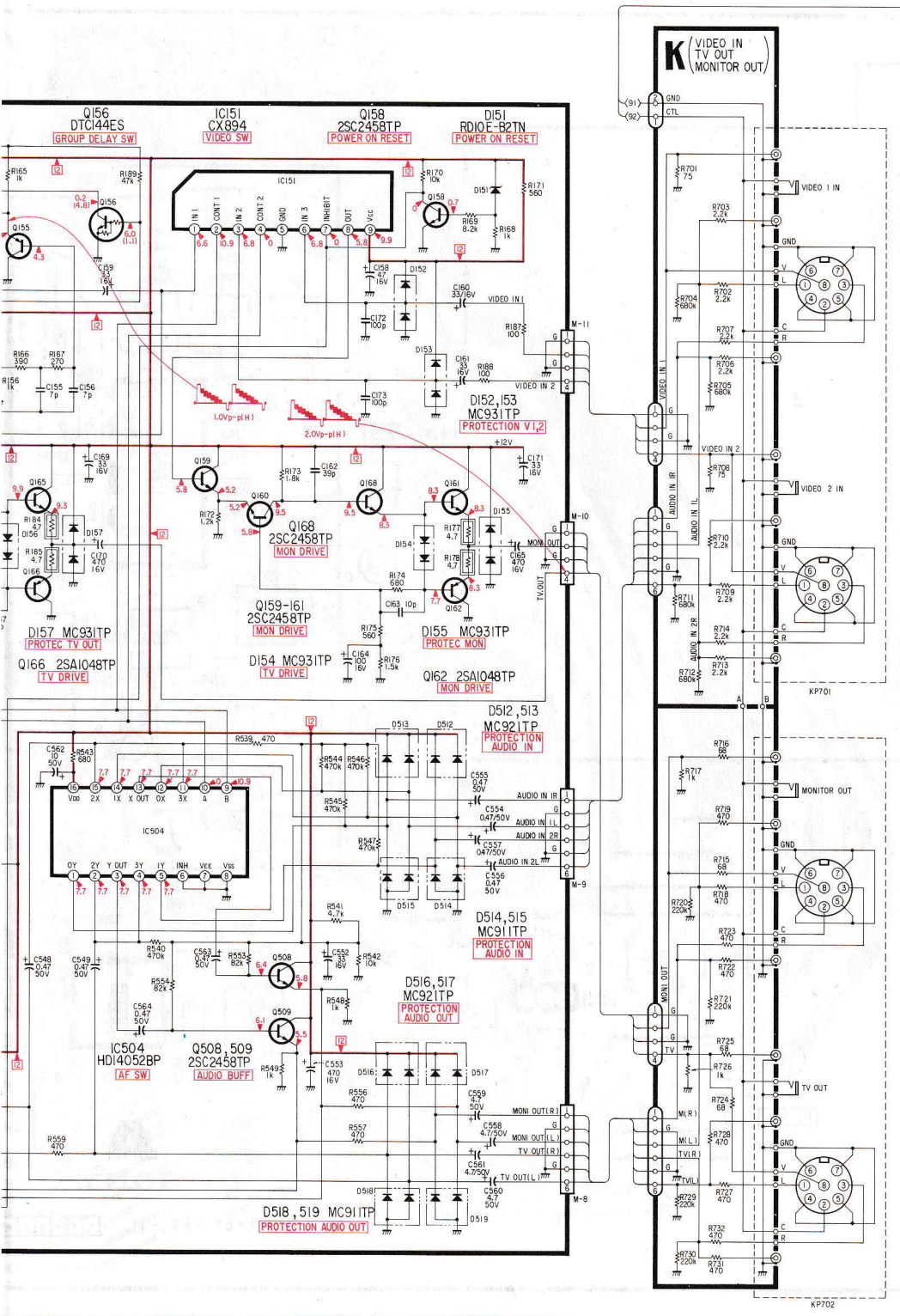
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31

32

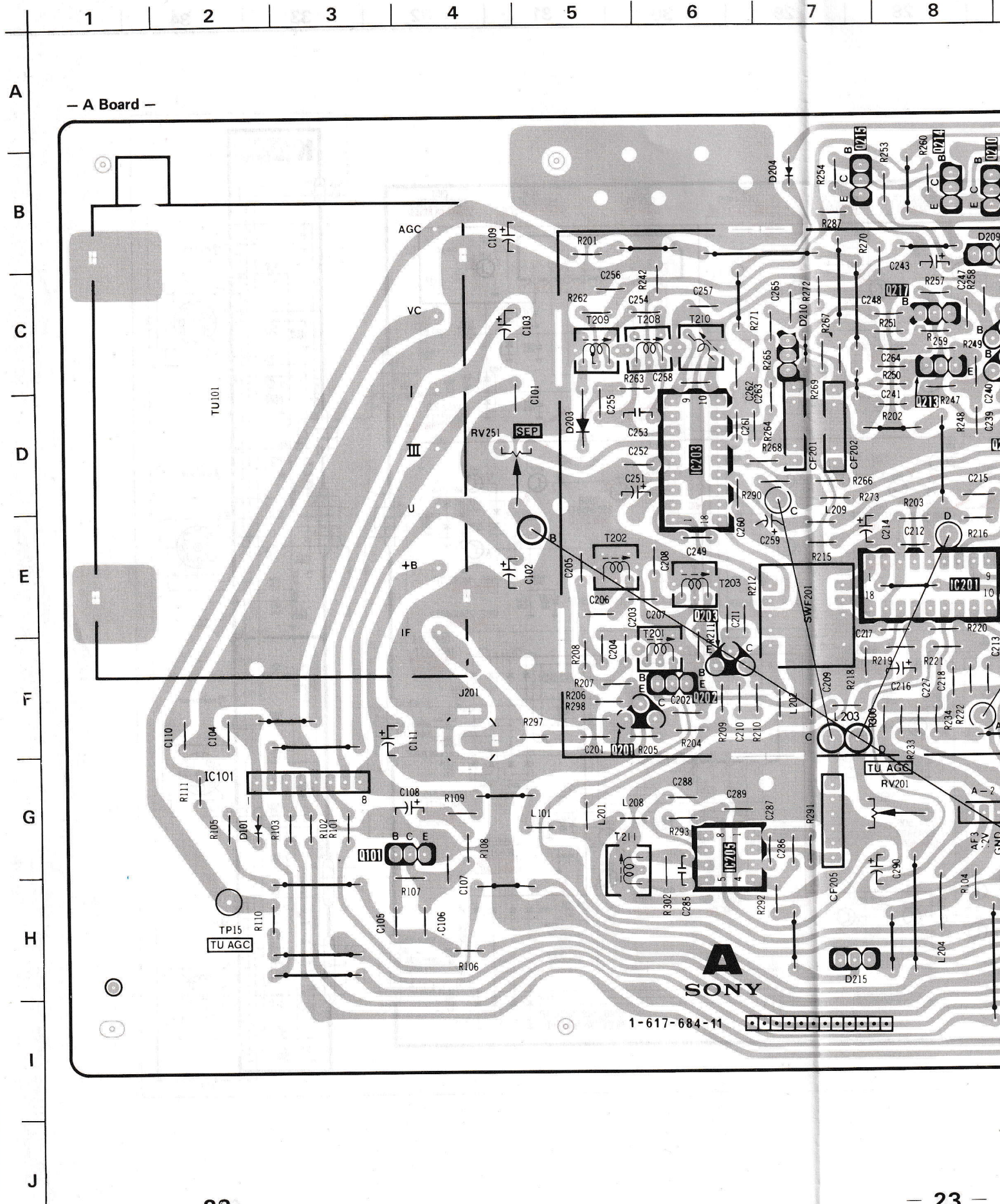
33

34



4-5. PRINTED WIRING BOARDS

— Conductor side —

[TUNER, BAND SW, VI
STEREO ID, SYST ID,

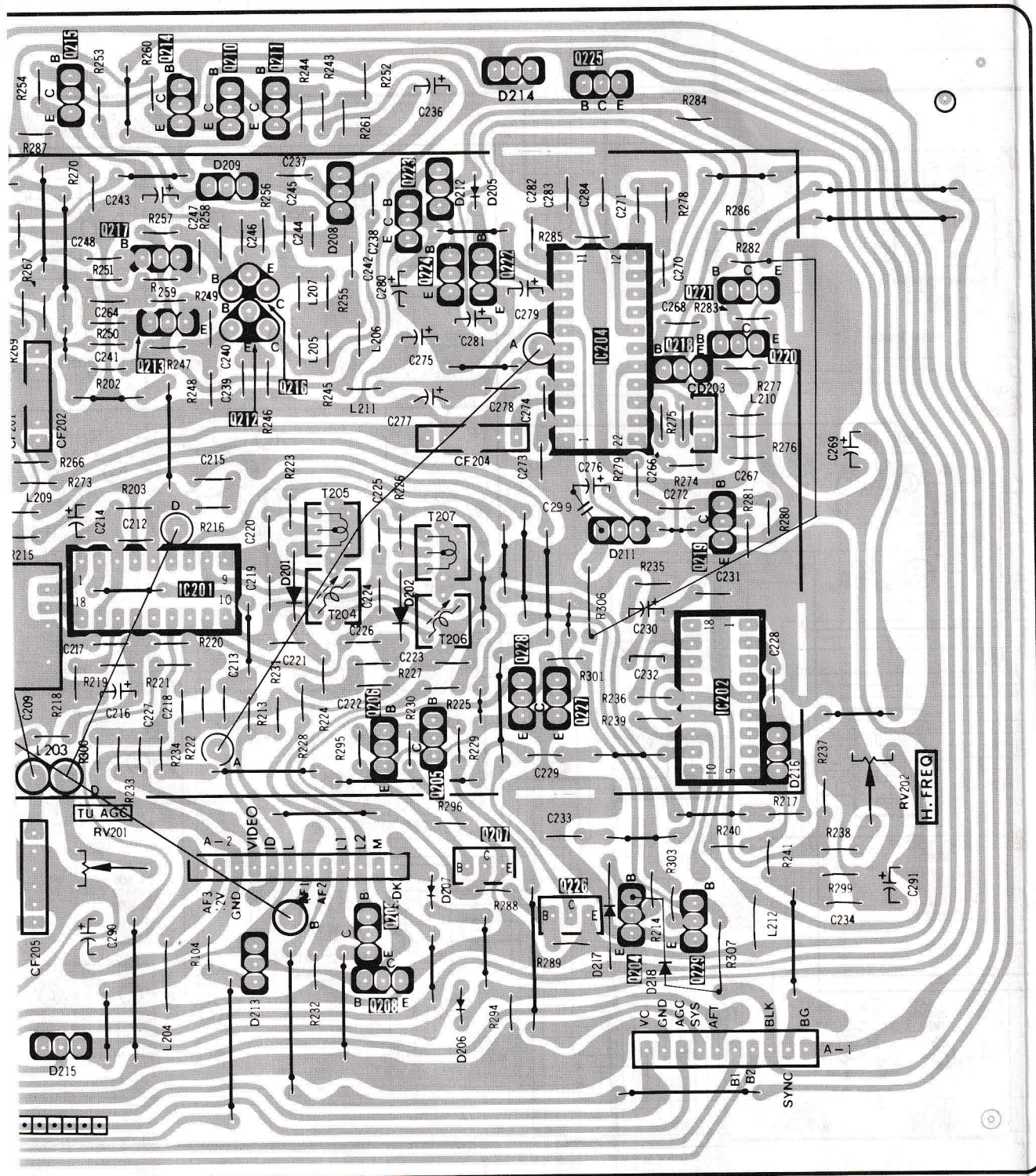
[TUNER, BAND SW, VIF, SIF, QPT, 5.5/6.0/6.5MHz DEMOD,
STEREO ID, SYST ID, SYST SW, H SYNC OSC,

A

A

M

7 8 9 10 11 12 13 14 15



IC , Q		
215	225	
214	210	211
	223	208
224	217	222
	216	221
213	212	
IC204	220	
	218	
IC203		
	219	
IC201		
	203	
228	227	IC202
	202	
201	206	205
	204	
IC205	229	
	209	
IC , Q		

[CPU, MEMORY, VIDEO/MON SW, AM SOUND IF, 4.5MHz (M) DEMOD, ST MATRIX, TV MON DRIVE, AUDIO MON SW, SOUND MUTE]

M

[CU
HE

14

15

16

17

18

19

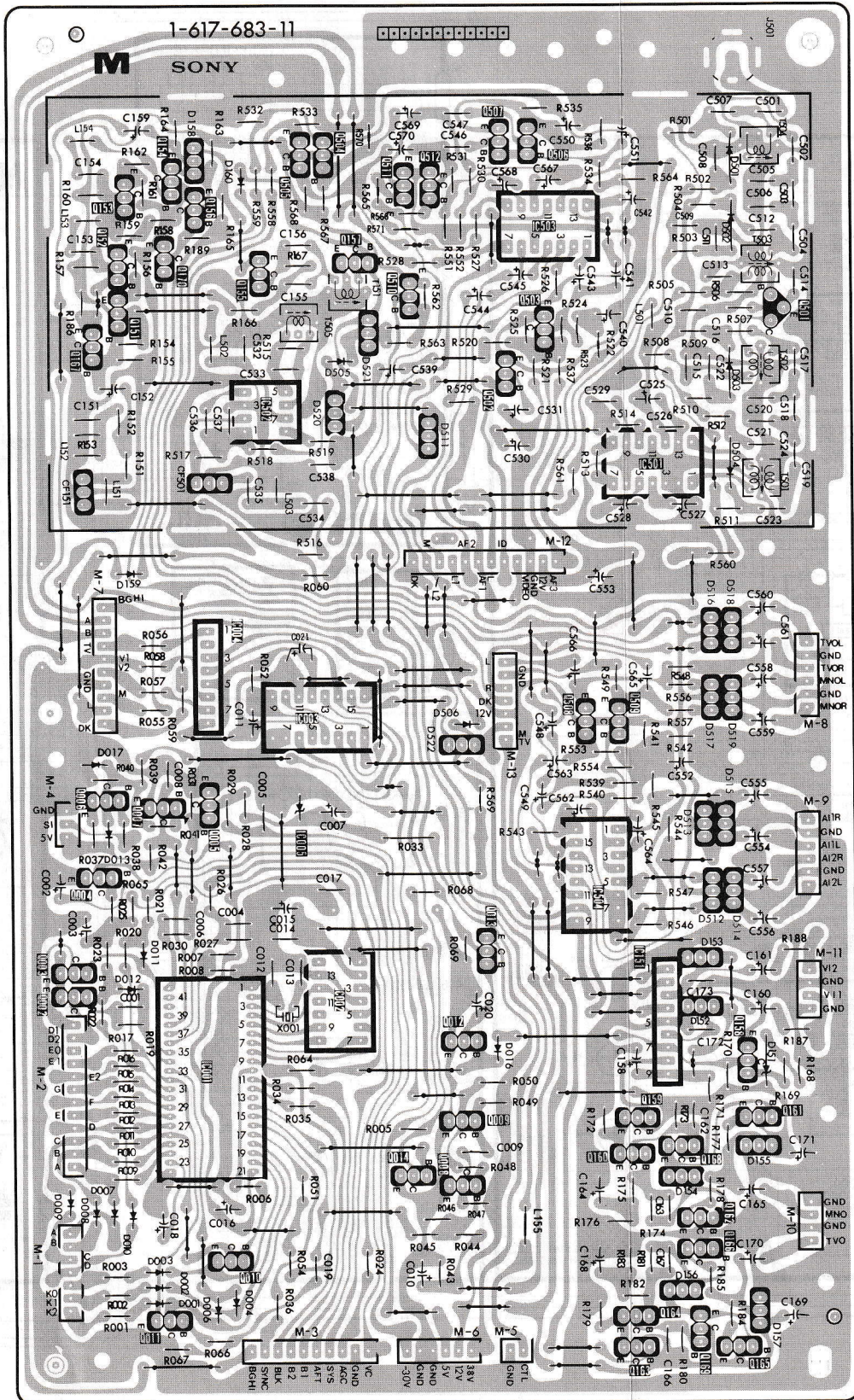
20

21

22

— M Board —

IC , Q	D	ADJ	TP
215 225 214 210 211	214 204		
223	209 208 212		
217 222 224 216 221	210		
213 212 IC204 220			
218	203		
IC203		RV251	
219	211		
IC201	201 202		
203 228 227 IC202 202 206 205			
201	216		
		RV202	
		RV201	
101 226 204 229 IC205 209	207 217		
	213 218 206 215		TP15
IC , Q	D	ADJ	TP



OUND IF,
ON DRIVE,

M

CUSTOMER CONTROL
HEADPHONE AMP

H1

[SW]

H2

VIDEO IN, TV OUT
MONITOR OUT

K

K

H1

21

22

23

24

25

26

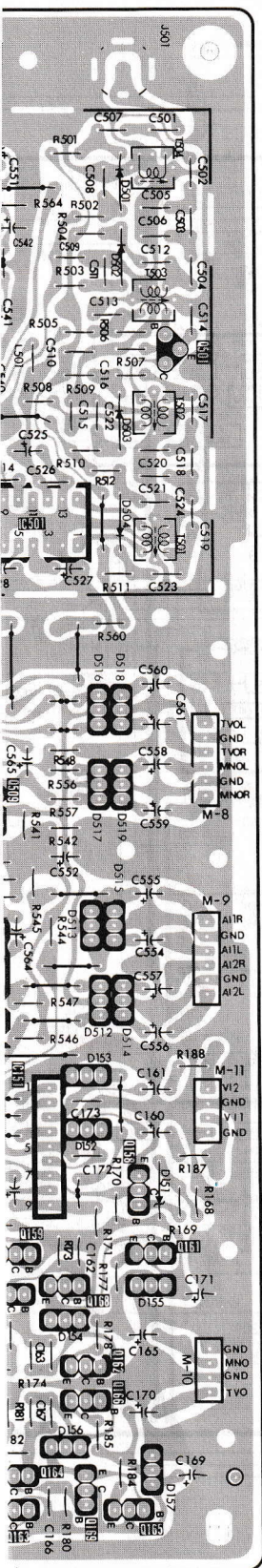
27

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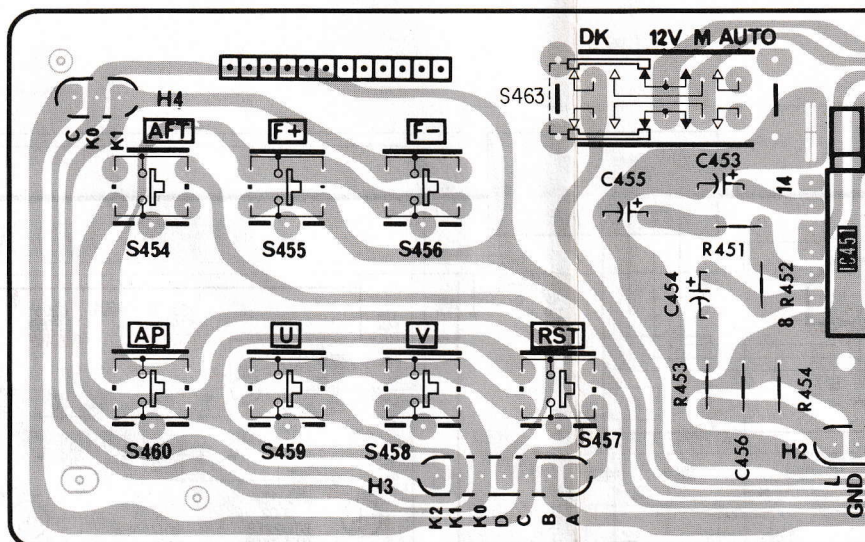
VTX-100M
RM-611

VTX-100M
RM-611

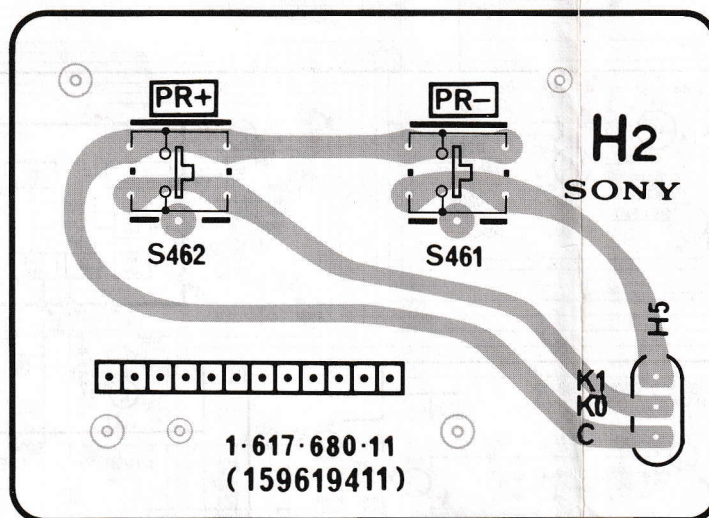


IC, Q	D
507 506	501
505 504	518
514 511 512	160
153	
156	502
IC503	
152 170 157	
155	
510	501
151	503
167	521
	505
502	503
IC502	520
	511
IC501	504
	159
	516 518
IC004	
IC103 508 509	517 519
	506
	522
	017
006 007 005 IC005	
	513 515
	013
004 IC504	512 514
013	011 153
003	
002 IC002	012
	152
012	016 151
158	
IC001	
009 159 161	
160 168	155
014	154
008	009
	008 007 010
010	166
	003
	002 156
	001 004
011 164	157
163 165	
IC, Q	D

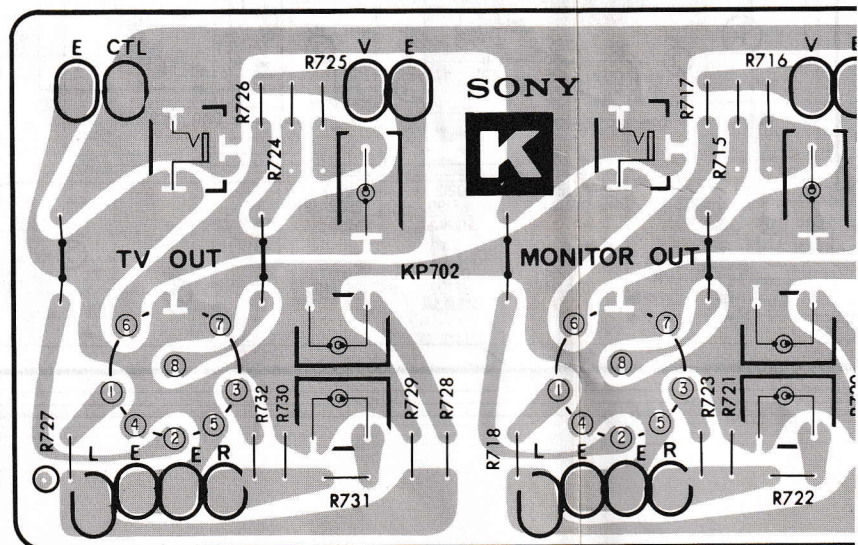
— H₁ Board —

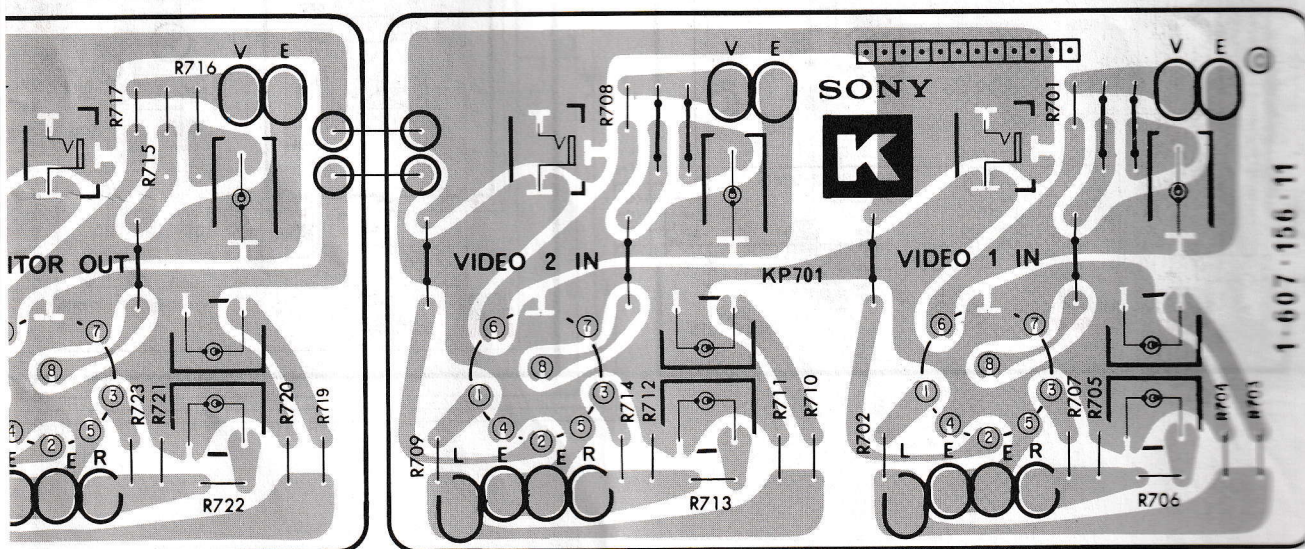


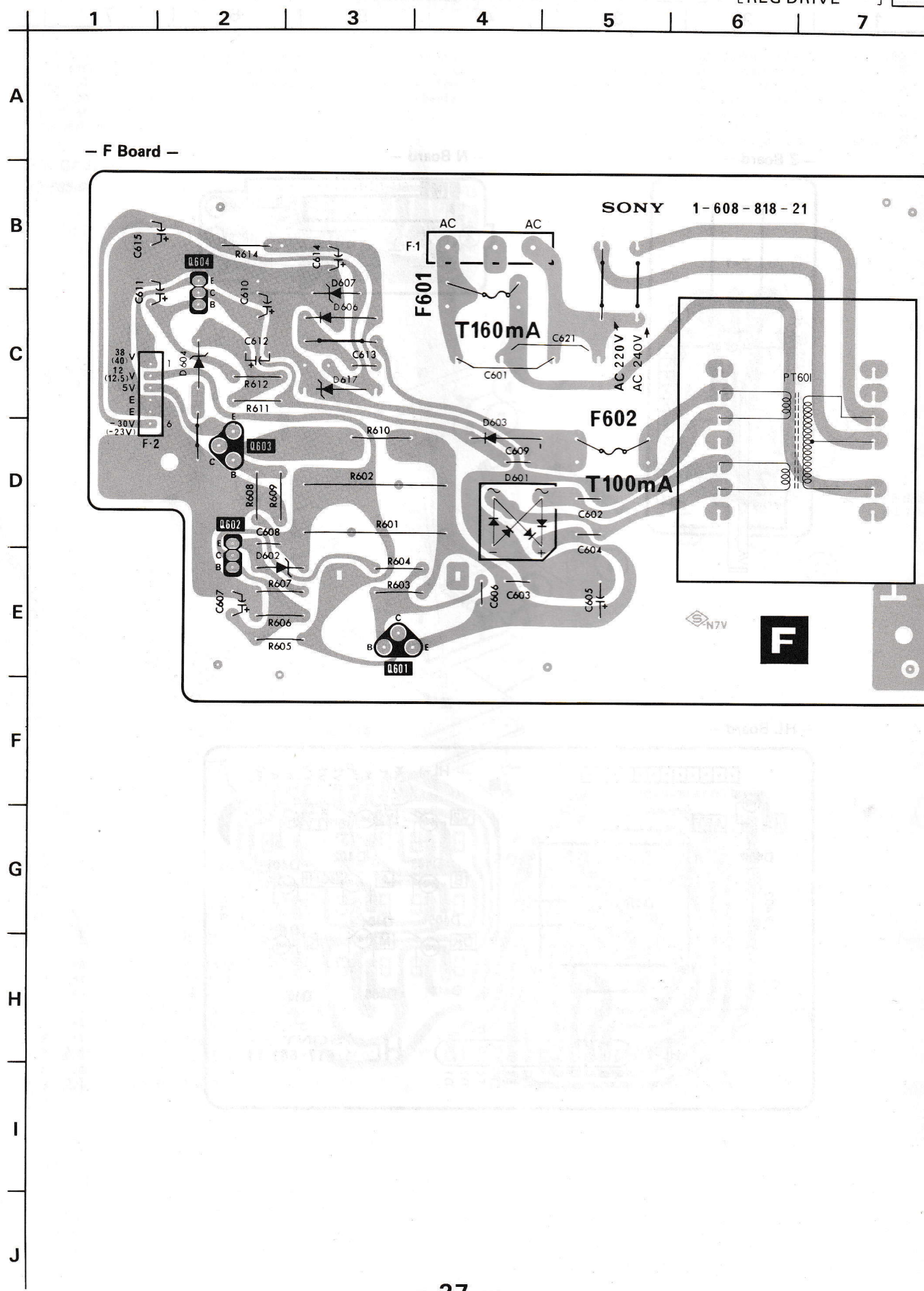
— H₂ Board —



— K Board —





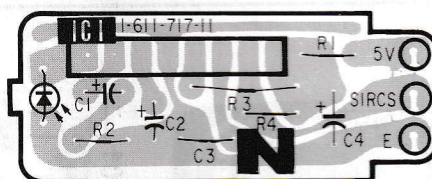
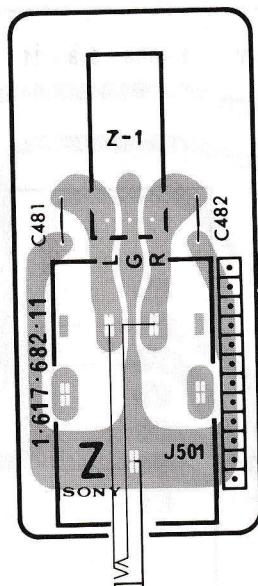


[CHANNEL INDICATOR]

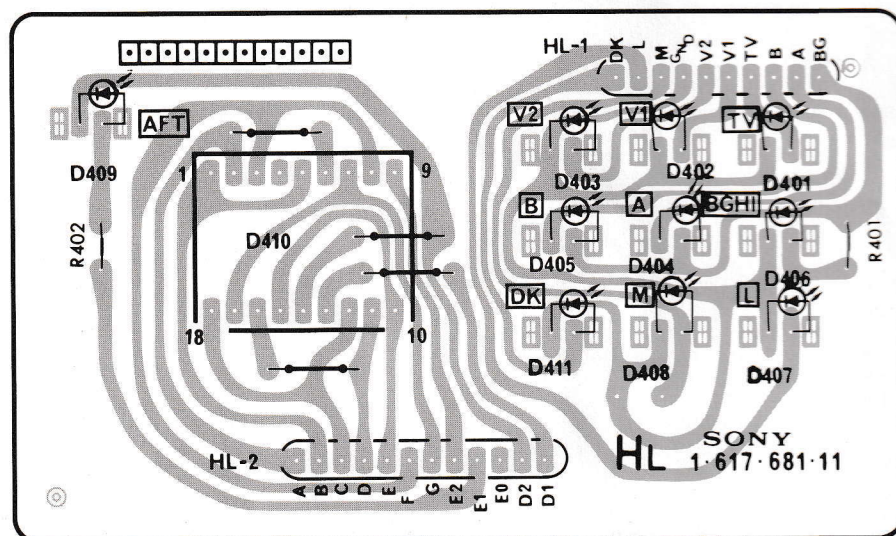
7

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— N Board —



– HL Board –



SECTION 5 EXPLODED VIEWS

NOTE:

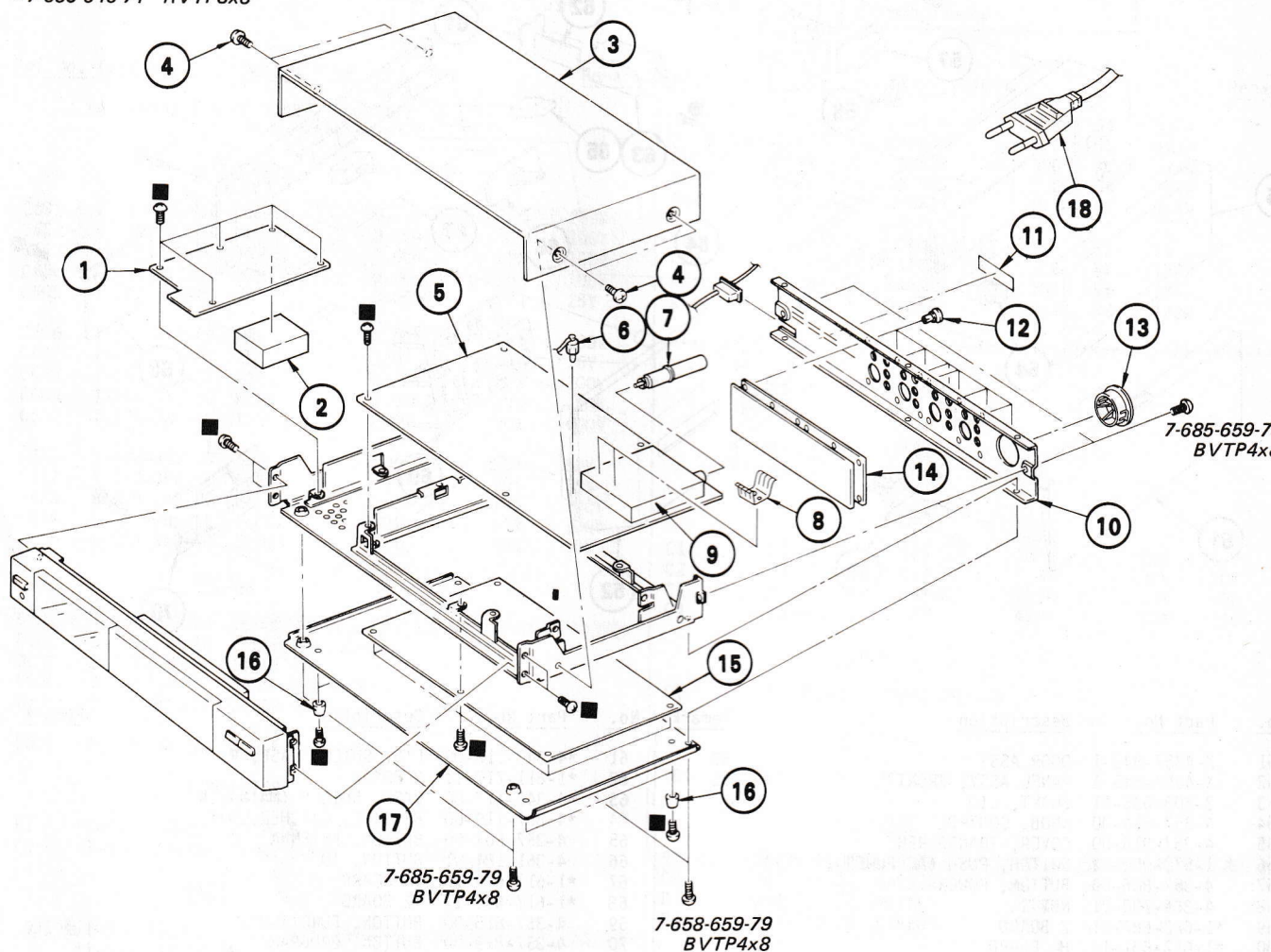
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

5-1. CASE

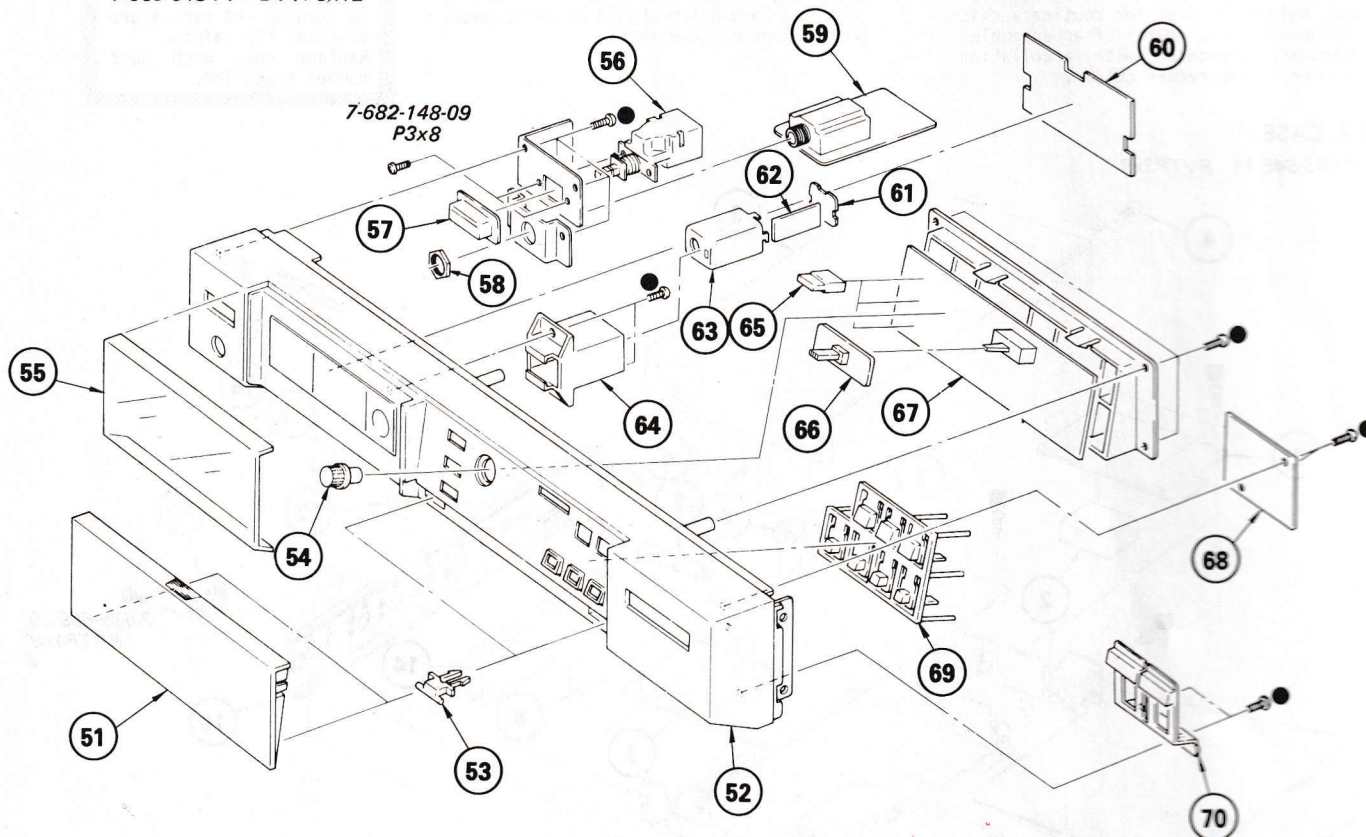
■ 7-685-646-71 RVTP3x8



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	*A-1240-671-A	F BOARD, COMPLETE		10	*4-361-192-01	PANEL, REAR	
2	*4-361-180-01	CUSHION		11	*4-361-185-01	LABEL, MODEL NUMBER	
3	*4-354-830-21	CASE		12	4-812-134-11	RIVET NYLON, 3.5	
4	4-847-802-11	SCREW, CASE STOPPER		13	4-361-188-01	BUSHING, ANTENNA GUIDE	
5	*A-1296-091-A	A BOARD, COMPLETE		14	*1-607-156-00	K BOARD	
6	*1-555-110-00	CABLE, PIN		15	*A-1306-360-A	M BOARD, COMPLETE	
7	▲1-526-854-11	SOCKET, ANTENNA (WITH PLUG)		16	X-3556-910-0	FOOT ASSY, MF	
8	4-302-978-00	SPRING		17	*4-357-823-00	LID, BOTTOM	
9	▲1-463-577-31	TUNER, ET (BT-883AD)		18	▲1-551-270-31	CORD, POWER	

5-2. FRONT PANEL

• 7-685-648-71 BVTP3x12



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4357-843-1	DOOR ASSY		61	*4-342-118-00	LID, SHIELD CASE, R	
52	X-4357-845-1	PANEL ASSY, FRONT		62	*1-611-717-11	N BOARD	
53	3-703-035-11	SHAFT, LID		63	*4-342-117-00	CASE, SHIELD (MAIN), R	
54	4-357-814-00	KNOB, CONTROL		64	*4-357-119-00	BRACKET, CATCHER, RAY	
55	4-357-816-00	COVER, TRANSPARENT		65	4-357-804-00	BUTTON, ANTENNA	
56	▲ 1-570-052-12	SWITCH, PUSH (AC POWER)(1 KEY)		66	4-361-184-01	BUTTON, ID	
57	4-357-806-00	BUTTON, POWER		67	*1-617-679-11	H1 BOARD	
58	4-369-780-01	NUT		68	*1-617-680-11	H2 BOARD	
59	*1-617-682-11	Z BOARD		69	4-357-815-00	BUTTON, FUNCTION	
60	*1-617-681-11	HL BOARD		70	4-357-819-00	BUTTON, PROGRAM	

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C110	1-136-165-00	FILM	0.1MF 5% 50V	C254	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C111	1-124-475-11	ELECT	470MF 20% 16V	C255	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C201	1-102-074-00	CERAMIC	0.001MF 10% 50V	C256	1-161-051-00	CERAMIC	0.01MF 10% 50V
C202	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C257	1-161-051-00	CERAMIC	0.01MF 10% 50V
C203	1-101-969-00	CERAMIC	5PF 0.5PF 50V	C258	1-102-621-00	CERAMIC	68PF 5% 50V
C204	1-101-969-00	CERAMIC	5PF 0.5PF 50V	C259	1-123-318-00	ELECT	33MF 20% 16V
C205	1-102-530-00	CERAMIC	120PF 5% 50V	C260	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C206	1-102-531-00	CERAMIC	150PF 5% 50V	C261	1-161-051-00	CERAMIC	0.01MF 10% 50V
C207	1-102-851-00	CERAMIC	15PF 5% 50V	C262	1-161-051-00	CERAMIC	0.01MF 10% 50V
C208	1-102-523-00	CERAMIC	56PF 5% 50V	C263	1-102-074-00	CERAMIC	0.001MF 10% 50V
C209	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C264	1-161-051-00	CERAMIC	0.01MF 10% 50V
C210	1-102-074-00	CERAMIC	0.001MF 10% 50V	C265	1-161-051-00	CERAMIC	0.01MF 10% 50V
C211	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C266	1-102-530-00	CERAMIC	120PF 5% 50V
C212	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C267	1-130-072-00	FILM	0.022MF 2% 100V
C213	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C268	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C214	1-123-381-00	ELECT	2.2MF 20% 50V	C269	1-123-318-00	ELECT	33MF 20% 16V
C215	1-124-002-11	ELECT	1MF 20% 50V	C270	1-108-620-91	MYLAR	0.0033MF 10% 100V
C216	1-123-318-00	ELECT	33MF 20% 16V	C271	1-108-620-91	MYLAR	0.0033MF 10% 100V
C217	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C272	1-102-959-00	CERAMIC	22PF 5% 50V
C218	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C273	1-101-004-00	CERAMIC	0.01MF 50V
C219	1-102-621-00	CERAMIC	68PF 5% 50V	C274	1-101-004-00	CERAMIC	0.01MF 50V
C220	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C275	1-123-356-00	ELECT	10MF 20% 16V
C221	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C276	1-123-380-00	ELECT	1MF 20% 50V
C222	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C277	1-123-318-00	ELECT	33MF 20% 16V
C223	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C278	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C224	1-102-621-00	CERAMIC	68PF 5% 50V	C279	1-123-332-00	ELECT	47MF 20% 16V
C225	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C280	1-123-332-00	ELECT	47MF 20% 16V
C226	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C281	1-123-356-00	ELECT	10MF 20% 16V
C227	1-101-361-00	CERAMIC	150PF 5% 50V	C282	1-106-192-00	MYLAR	0.0068MF 10% 100V
C228	1-101-880-00	CERAMIC	47PF 5% 50V	C283	1-108-618-91	MYLAR	0.0022MF 10% 100V
C229	1-136-169-00	FILM	0.22MF 5% 50V	C284	1-108-618-91	MYLAR	0.0022MF 10% 100V
C230	1-123-369-00	ELECT	4.7MF 20% 50V	C285	1-104-065-00	POLYSTYRENE	330PF 5% 50V
C231	1-106-196-00	MYLAR	0.01MF 10% 100V	C286	1-101-004-00	CERAMIC	0.01MF 50V
C232	1-103-741-00	POLYSTYRENE	0.0047MF 5% 50V	C287	1-101-004-00	CERAMIC	0.01MF 50V
C233	1-136-169-00	FILM	0.22MF 5% 50V	C288	1-101-004-00	CERAMIC	0.01MF 50V
C234	1-102-824-21	CERAMIC	470PF 5% 50V	C289	1-108-837-00	MYLAR	0.01MF 10% 50V
C236	1-123-379-00	ELECT	0.47MF 20% 50V	C290	1-123-380-00	ELECT	1MF 20% 50V
C237	1-102-949-00	CERAMIC	12PF 5% 50V	C291	1-123-356-00	ELECT	10MF 20% 16V
C238	1-102-074-00	CERAMIC	0.001MF 10% 50V	C299	1-102-125-00	CERAMIC	0.0047MF 10% 50V
C239	1-161-051-00	CERAMIC	0.01MF 10% 50V				
C240	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C241	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C242	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C243	1-123-379-00	ELECT	0.47MF 20% 50V				
C244	1-102-949-00	CERAMIC	12PF 5% 50V				
C245	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C246	1-161-051-00	CERAMIC	0.01MF 10% 50V				
C247	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C248	1-102-074-00	CERAMIC	0.001MF 10% 50V				
C249	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C251	1-123-379-00	ELECT	0.47MF 20% 50V				
C252	1-101-361-00	CERAMIC	150PF 5% 50V				
C253	1-104-069-00	POLYSTYRENE	470PF 5% 50V				

DISCRIMINATOR

CD203 1-404-501-00 DISCRIMINATOR, CERAMIC

FILTER

CF201 1-567-569-11 FILTER, CERAMIC
 CF202 1-527-840-00 FILTER, CERAMIC
 CF204 1-527-839-00 FILTER, CERAMIC
 CF205 1-567-570-11 FILTER, CERAMIC
 SWF201 1-404-438-00 FILTER, SAW

DIODE

D101 8-719-911-19 DIODE 1SS119
 D201 8-719-903-27 DIODE 1SS168

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D202	8-719-903-27	DIODE 1SS168		Q209	8-729-900-89	TRANSISTOR DTC144ES	
D203	8-719-903-27	DIODE 1SS168		Q210	8-729-900-63	TRANSISTOR DTA124ES	
D204	8-719-911-19	DIODE 1SS119		Q211	8-729-178-54	TRANSISTOR 2SC2785	
D205	8-719-911-19	DIODE 1SS119		Q212	8-729-901-59	TRANSISTOR BF199	
D206	8-719-911-19	DIODE 1SS119		Q213	8-729-178-54	TRANSISTOR 2SC2785	
D207	8-719-911-19	DIODE 1SS119		Q214	8-729-900-63	TRANSISTOR DTA124ES	
D208	8-719-000-12	DIODE MC931		Q215	8-729-178-54	TRANSISTOR 2SC2785	
D209	8-719-000-12	DIODE MC931		Q216	8-729-901-59	TRANSISTOR BF199	
D210	8-719-000-12	DIODE MC931		Q217	8-729-178-54	TRANSISTOR 2SC2785	
D211	8-719-000-06	DIODE MC921		Q218	8-729-178-54	TRANSISTOR 2SC2785	
D212	8-719-000-04	DIODE MC911		Q219	8-729-117-54	TRANSISTOR 2SA1175	
D213	8-719-000-04	DIODE MC911		Q220	8-729-178-54	TRANSISTOR 2SC2785	
D214	8-719-000-06	DIODE MC921		Q221	8-729-178-54	TRANSISTOR 2SC2785	
D215	8-719-000-06	DIODE MC921		Q222	8-729-900-89	TRANSISTOR DTC144ES	
D216	8-719-000-06	DIODE MC921		Q223	8-729-900-89	TRANSISTOR DTC144ES	
D217	8-719-911-19	DIODE 1SS119		Q224	8-729-900-89	TRANSISTOR DTC144ES	
D218	8-719-911-19	DIODE 1SS119		Q225	8-729-900-65	TRANSISTOR DTA144ES	
<u>IC</u>				Q226	8-729-113-32	TRANSISTOR 2SB733	
IC101	8-759-602-1	IC M54572L		Q227	8-729-900-36	TRANSISTOR DTC124ES	
IC201	8-759-911-16	IC TDA4429T		Q228	8-729-900-89	TRANSISTOR DTC144ES	
	*4-369-734-01	HEAT SINK; IC201		Q229	8-729-900-89	TRANSISTOR DTC144ES	
IC202	6-066-720-50	IC TDA2595		<u>RESISTOR</u>			
IC203	8-759-909-54	IC TDA2546A		R101	1-247-845-00	CARBON 3.9K 5% 1/6W	
IC204	8-759-007-54	IC TDA4940		R102	1-247-831-00	CARBON 1K 5% 1/6W	
IC205	8-759-003-90	IC TBA129		R103	1-247-831-00	CARBON 1K 5% 1/6W	
<u>JACK</u>				R104	1-249-425-11	CARBON 4.7K 5% 1/6W	
J201	1-526-575-00	SOCKET, PLUG		R105	1-247-903-00	CARBON 1M 5% 1/6W	
<u>COIL</u>				R106	1-249-433-11	CARBON 22K 5% 1/6W	
L101	1-407-489-00	MICRO INDUCTOR 560UH		R107	1-247-891-00	CARBON 330K 5% 1/6W	
L201	1-408-406-00	MICRO INDUCTOR 5.6UH		R108	1-249-421-11	CARBON 2.2K 5% 1/6W	
L202	1-408-593-00	MICRO INDUCTOR 1.5UH		R109	1-249-421-11	CARBON 2.2K 5% 1/6W	
L203	1-408-406-00	MICRO INDUCTOR 5.6UH		R110	1-249-425-11	CARBON 4.7K 5% 1/6W	
L204	1-408-225-00	MICRO INDUCTOR 3.3UH		R111	1-247-843-00	CARBON 3.3K 5% 1/6W	
L205	1-408-417-00	MICRO INDUCTOR 47UH		R201	1-247-807-00	CARBON 100 5% 1/6W	
L206	1-408-406-00	MICRO INDUCTOR 5.6UH		R202	1-247-843-00	CARBON 3.3K 5% 1/6W	
L207	1-408-417-00	MICRO INDUCTOR 47UH		R203	1-247-853-00	CARBON 8.2K 5% 1/6W	
L208	1-408-406-00	MICRO INDUCTOR 5.6UH		R204	1-247-815-00	CARBON 220 5% 1/6W	
L209	1-408-406-00	MICRO INDUCTOR 5.6UH		R205	1-249-429-11	CARBON 10K 5% 1/6W	
L210	1-408-622-00	MICRO INDUCTOR 390UH		R206	1-247-827-00	CARBON 680 5% 1/6W	
L211	1-408-406-00	MICRO INDUCTOR 5.6UH		R207	1-247-791-00	CARBON 22 5% 1/6W	
L212	1-407-705-00	MICRO INDUCTOR 100UH		R208	1-247-799-00	CARBON 47 5% 1/6W	
<u>TRANSISTOR</u>				R209	1-249-425-11	CARBON 4.7K 5% 1/6W	
Q101	8-729-178-54	TRANSISTOR 2SC2785		R210	1-247-811-00	CARBON 150 5% 1/6W	
Q201	8-729-901-59	TRANSISTOR BF199		R211	1-247-845-00	CARBON 3.9K 5% 1/6W	
Q202	8-729-900-36	TRANSISTOR DTC124ES		R212	1-247-815-00	CARBON 220 5% 1/6W	
Q203	8-729-000-12	TRANSISTOR BF959		R213	1-247-807-00	CARBON 100 5% 1/6W	
Q204	8-729-900-89	TRANSISTOR DTC144ES		R214	1-249-437-11	CARBON 47K 5% 1/6W	
Q205	8-729-178-54	TRANSISTOR 2SC2785		R215	1-247-903-00	CARBON 1M 5% 1/6W	
Q206	8-729-900-89	TRANSISTOR DTC144ES		R216	1-247-831-00	CARBON 1K 5% 1/6W	
Q207	8-729-113-32	TRANSISTOR 2SB733		R217	1-247-851-00	CARBON 6.8K 5% 1/6W	
Q208	8-729-900-65	TRANSISTOR DTA144ES		R218	1-247-859-00	CARBON 15K 5% 1/6W	
				R219	1-247-859-00	CARBON 15K 5% 1/6W	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R220	1-249-437-11	CARBON	47K 5% 1/6W	R273	1-247-829-00	CARBON	820 5% 1/6W
R221	1-247-857-00	CARBON	12K 5% 1/6W	R274	1-247-821-00	CARBON	390 5% 1/6W
R222	1-247-883-00	CARBON	150K 5% 1/6W	R275	1-247-821-00	CARBON	390 5% 1/6W
R223	1-247-849-00	CARBON	5.6K 5% 1/6W	R276	1-247-845-00	CARBON	3.9K 5% 1/6W
R224	1-247-849-00	CARBON	5.6K 5% 1/6W	R277	1-247-829-00	CARBON	820 5% 1/6W
R225	1-247-807-00	CARBON	100 5% 1/6W	R278	1-247-869-00	CARBON	39K 5% 1/6W
R226	1-247-849-00	CARBON	5.6K 5% 1/6W	R279	1-249-419-11	CARBON	1.5K 5% 1/6W
R227	1-247-849-00	CARBON	5.6K 5% 1/6W	R280	1-247-879-00	CARBON	100K 5% 1/6W
R228	1-247-807-00	CARBON	100 5% 1/6W	R281	1-247-879-00	CARBON	100K 5% 1/6W
R229	1-249-437-11	CARBON	47K 5% 1/6W	R282	1-249-433-11	CARBON	22K 5% 1/6W
R230	1-249-429-11	CARBON	10K 5% 1/6W	R283	1-247-867-00	CARBON	33K 5% 1/6W
R231	1-249-421-11	CARBON	2.2K 5% 1/6W	R284	1-247-843-00	CARBON	3.3K 5% 1/6W
R232	1-249-429-11	CARBON	10K 5% 1/6W	R285	1-249-440-11	CARBON	82K 5% 1/6W
R233	1-247-811-00	CARBON	150 5% 1/6W	R286	1-249-419-11	CARBON	1.5K 5% 1/6W
R234	1-247-807-00	CARBON	100 5% 1/6W	R287	1-249-419-11	CARBON	1.5K 5% 1/6W
R235	1-247-829-00	CARBON	820 5% 1/6W	R288	1-249-433-11	CARBON	22K 5% 1/6W
R236	1-247-879-00	CARBON	100K 5% 1/6W	R289	1-249-429-11	CARBON	10K 5% 1/6W
R237	1-247-857-00	CARBON	12K 5% 1/6W	R290	1-247-829-00	CARBON	820 5% 1/6W
R238	1-247-879-00	CARBON	100K 5% 1/6W	R291	1-247-829-00	CARBON	820 5% 1/6W
R239	1-249-437-11	CARBON	47K 5% 1/6W	R292	1-247-859-00	CARBON	15K 5% 1/6W
R240	1-247-859-00	CARBON	15K 5% 1/6W	R293	1-249-425-11	CARBON	4.7K 5% 1/6W
R241	1-247-853-00	CARBON	8.2K 5% 1/6W	R294	1-249-433-11	CARBON	22K 5% 1/6W
R242	1-249-419-11	CARBON	1.5K 5% 1/6W	R295	1-249-433-11	CARBON	22K 5% 1/6W
R243	1-249-433-11	CARBON	22K 5% 1/6W	R296	1-249-429-11	CARBON	10K 5% 1/6W
R244	1-249-434-11	CARBON	27K 5% 1/6W	R297	1-247-795-00	CARBON	33 5% 1/6W
R245	1-247-845-00	CARBON	3.9K 5% 1/6W	R298	1-249-429-11	CARBON	10K 5% 1/6W
R246	1-247-831-00	CARBON	1K 5% 1/6W	R299	1-247-849-00	CARBON	5.6K 5% 1/6W
R247	1-249-429-11	CARBON	10K 5% 1/6W	R300	1-247-831-00	CARBON	1K 5% 1/6W
R248	1-249-425-11	CARBON	4.7K 5% 1/6W	R302	1-249-421-11	CARBON	2.2K 5% 1/6W
R249	1-249-421-11	CARBON	2.2K 5% 1/6W	R303	1-249-433-11	CARBON	22K 5% 1/6W
R250	1-247-867-00	CARBON	33K 5% 1/6W	R306	1-247-163-00	CARBON	22K 5% 1/4W
R251	1-247-867-00	CARBON	33K 5% 1/6W	R307	1-247-725-11	CARBON	10K 5% 1/4W
R252	1-247-833-00	CARBON	1.2K 5% 1/6W	VARIABLE RESISTOR			
R253	1-249-433-11	CARBON	22K 5% 1/6W	RV201	1-228-723-00	RES, ADJ, CERAMIC CARBON	4.7K
R254	1-249-434-11	CARBON	27K 5% 1/6W	RV202	1-228-727-00	RES, ADJ, CERAMIC CARBON	47K
R255	1-247-843-00	CARBON	3.3K 5% 1/6W	RV251	1-228-725-00	RES, ADJ, CERAMIC CARBON	22K
R256	1-249-421-11	CARBON	2.2K 5% 1/6W	TRANSFORMER			
R257	1-249-429-11	CARBON	10K 5% 1/6W	T201	1-409-372-00	COIL, TRAP	
R258	1-249-425-11	CARBON	4.7K 5% 1/6W	T202	1-404-476-00	COIL, IF	
R259	1-249-421-11	CARBON	2.2K 5% 1/6W	T203	1-404-476-00	COIL, IF	
R260	1-247-823-00	CARBON	470 5% 1/6W	T204	1-404-558-11	COIL	
R261	1-247-819-00	CARBON	330 5% 1/6W	T205	1-404-556-11	COIL	
R262	1-247-843-00	CARBON	3.3K 5% 1/6W	T206	1-404-558-11	COIL	
R263	1-249-425-11	CARBON	4.7K 5% 1/6W	T207	1-404-556-11	COIL	
R264	1-249-419-11	CARBON	1.5K 5% 1/6W	T208	1-404-477-00	COIL, IF	
R265	1-247-859-00	CARBON	15K 5% 1/6W	T209	1-404-660-11	COIL	
R266	1-247-829-00	CARBON	820 5% 1/6W	T210	1-404-493-00	COIL	
R267	1-247-845-00	CARBON	3.9K 5% 1/6W	T211	1-404-477-00	COIL, IF	
R268	1-247-829-00	CARBON	820 5% 1/6W				
R269	1-247-845-00	CARBON	3.9K 5% 1/6W				
R270	1-247-837-00	CARBON	1.8K 5% 1/6W				
R271	1-247-843-00	CARBON	3.3K 5% 1/6W				
R272	1-247-831-00	CARBON	1K 5% 1/6W				

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TUNER</u>				C502	1-102-852-00	CERAMIC	47PF
TU101A 1-463-577-31 TUNER, ET (BT-883AD)				C503	1-102-510-00	CERAMIC	12PF
*****				C504	1-102-852-00	CERAMIC	47PF
*A-1306-360-A M BOARD, COMPLETE				C505	1-102-529-00	CERAMIC	100PF
*****				C506	1-102-530-00	CERAMIC	120PF
<u>CAPACITOR</u>				C507	1-102-516-00	CERAMIC	27PF
C001	1-102-112-00	CERAMIC	330PF	C508	1-102-125-00	CERAMIC	0.0047MF
C002	1-123-381-00	ELECT	2.2MF	C509	1-102-125-00	CERAMIC	0.0047MF
C003	1-123-381-00	ELECT	2.2MF	C510	1-102-125-00	CERAMIC	0.0047MF
C004	1-161-013-00	CERAMIC	0.01MF	C511	1-102-125-00	CERAMIC	0.0047MF
C005	1-136-165-00	MYLAR	0.1MF	C512	1-102-516-00	CERAMIC	27PF
C006	1-102-973-00	CERAMIC	100PF	C513	1-102-125-00	CERAMIC	0.0047MF
C007	1-123-356-00	ELECT	10MF	C514	1-102-125-00	CERAMIC	0.0047MF
C008	1-102-123-00	CERAMIC	0.0033MF	C515	1-102-125-00	CERAMIC	0.0047MF
C009	1-136-165-00	MYLAR	0.1MF	C516	1-102-516-00	CERAMIC	27PF
C010	1-123-379-00	ELECT	0.47MF	C517	1-102-852-00	CERAMIC	47PF
C011	1-123-379-00	ELECT	0.47MF	C518	1-102-510-00	CERAMIC	12PF
C012	1-102-959-00	CERAMIC	22PF	C519	1-102-852-00	CERAMIC	47PF
C013	1-102-963-00	CERAMIC	33PF	C520	1-102-529-00	CERAMIC	100PF
C014	1-102-074-00	CERAMIC	0.001MF	C521	1-102-531-00	CERAMIC	150PF
C015	1-123-356-00	ELECT	10MF	C522	1-102-125-00	CERAMIC	0.0047MF
C016	1-123-307-00	ELECT	100MF	C523	1-102-516-00	CERAMIC	27PF
C017	1-161-025-00	CERAMIC	0.1MF	C524	1-102-125-00	CERAMIC	0.0047MF
C018	1-123-379-00	ELECT	0.47MF	C525	1-123-318-00	ELECT	33MF
C019	1-124-002-11	ELECT	1MF	C526	1-102-125-00	CERAMIC	0.0047MF
C020	1-123-379-00	ELECT	0.47MF	C527	1-123-356-00	ELECT	10MF
C021	1-123-332-00	ELECT	47MF	C528	1-123-369-00	ELECT	4.7MF
C151	1-101-361-00	CERAMIC	150PF	C529	1-102-121-00	CERAMIC	0.0022MF
C152	1-123-307-00	ELECT	100MF	C530	1-123-380-00	ELECT	1MF
C153	1-102-973-00	CERAMIC	100PF	C531	1-123-306-00	ELECT	47MF
C154	1-102-971-00	CERAMIC	82PF	C532	1-161-013-00	CERAMIC	0.01MF
C155	1-102-662-00	CERAMIC	7PF	C533	1-103-721-00	POLYSTYRENE	680PF
C156	1-102-662-00	CERAMIC	7PF	C534	1-102-965-00	CERAMIC	39PF
C158	1-123-332-00	ELECT	47MF	C535	1-102-965-00	CERAMIC	39PF
C159	1-123-318-00	ELECT	33MF	C536	1-161-013-00	CERAMIC	0.01MF
C160	1-123-318-00	ELECT	33MF	C537	1-161-013-00	CERAMIC	0.01MF
C161	1-123-318-00	ELECT	33MF	C538	1-106-200-00	MYLAR	0.015MF
C162	1-102-965-00	CERAMIC	39PF	C539	1-123-380-00	ELECT	1MF
C163	1-102-947-00	CERAMIC	10PF	C540	1-123-356-00	ELECT	10MF
C164	1-123-333-00	ELECT	100MF	C541	1-123-380-00	ELECT	1MF
C165	1-124-475-11	ELECT	470MF	C542	1-123-318-00	ELECT	33MF
C166	1-102-965-00	CERAMIC	39PF	C543	1-123-380-00	ELECT	1MF
C167	1-102-947-00	CERAMIC	10PF	C544	1-123-380-00	ELECT	1MF
C168	1-123-333-00	ELECT	100MF	C545	1-123-380-00	ELECT	1MF
C169	1-123-318-00	ELECT	33MF	C546	1-108-622-91	MYLAR	0.0047MF
C170	1-124-475-11	ELECT	470MF	C547	1-108-622-91	MYLAR	0.0047MF
C171	1-123-318-00	ELECT	33MF	C548	1-123-379-00	ELECT	0.47MF
C172	1-102-973-00	CERAMIC	100PF	C549	1-123-379-00	ELECT	0.47MF
C173	1-102-973-00	CERAMIC	100PF	C550	1-123-356-00	ELECT	10MF
C501	1-102-934-00	CERAMIC	1PF	C551	1-123-381-00	ELECT	2.2MF
			0.25PF	C552	1-123-318-00	ELECT	33MF
			50V	C553	1-124-475-11	ELECT	470MF
				C554	1-123-379-00	ELECT	0.47MF

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

M

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C555	1-123-379-00	ELECT 0.47MF 20%	50V	D511	8-719-000-06	DIODE MC921	
C556	1-123-379-00	ELECT 0.47MF 20%	50V	D512	8-719-000-06	DIODE MC921	
C557	1-123-379-00	ELECT 0.47MF 20%	50V	D513	8-719-000-06	DIODE MC921	
C558	1-123-369-00	ELECT 4.7MF 20%	50V	D514	8-719-000-04	DIODE MC911	
C559	1-123-369-00	ELECT 4.7MF 20%	50V	D515	8-719-000-04	DIODE MC911	
C560	1-123-369-00	ELECT 4.7MF 20%	50V	D516	8-719-000-06	DIODE MC921	
C561	1-123-369-00	ELECT 4.7MF 20%	50V	D517	8-719-000-06	DIODE MC921	
C562	1-123-356-00	ELECT 10MF 20%	50V	D518	8-719-000-04	DIODE MC911	
C563	1-123-379-00	ELECT 0.47MF 20%	50V	D519	8-719-000-04	DIODE MC911	
C564	1-123-379-00	ELECT 0.47MF 20%	50V	D520	8-719-000-06	DIODE MC921	
C565	1-123-369-00	ELECT 4.7MF 20%	50V	D521	8-719-000-06	DIODE MC921	
C566	1-123-369-00	ELECT 4.7MF 20%	50V	D522	8-719-000-06	DIODE MC921	
C567	1-123-380-00	ELECT 1MF 20%	50V				
C568	1-123-380-00	ELECT 1MF 20%	50V				
C569	1-123-379-00	ELECT 0.47MF 20%	50V				
C570	1-123-379-00	ELECT 0.47MF 20%	50V				
<u>FILTER</u>				<u>IC</u>			
CF151	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		IC001	8-759-602-63	IC CX523-113P	
CF501	1-527-260-00	FILTER, CERAMIC (4.5MHZ)		IC002	8-759-600-92	IC M58657P	
				IC003	8-759-340-27	IC HD14027BP	
				IC004	8-759-600-15	IC M54570L	
				IC005	8-759-157-40	IC UPC574J	
				IC151	8-759-208-94	IC CX894	
				IC501	8-759-911-15	IC TDA4445F	
				IC502	8-759-003-90	IC TBA129	
				IC503	8-759-007-55	IC TDA4944	
				IC504	8-759-340-52	IC HD14052BP	
				<u>JACK</u>			
				J501	1-526-575-00	SOCKET, PLUG	
				<u>COIL</u>			
				L151	1-408-603-00	MICRO INDUCTOR 10UH	
				L152	1-408-408-00	MICRO INDUCTOR 8.2UH	
				L153	1-408-417-00	MICRO INDUCTOR 47UH	
				L154	1-408-413-00	MICRO INDUCTOR 22UH	
				L155	1-407-175-XX	MICRO INDUCTOR 330UH	
				L501	1-408-406-00	MICRO INDUCTOR 5.6UH	
				L502	1-408-406-00	MICRO INDUCTOR 5.6UH	
				L503	1-408-413-00	MICRO INDUCTOR 22UH	
				<u>CONNECTOR</u>			
				M1	*1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P	
				M2	*1-560-156-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M3	*1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P	
				M4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M6	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
				M7	*1-560-224-00	PLUG, CONNECTOR(2.5MM PITCH)10P	
				M8	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M9	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M10	*1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	
				M11	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M12	*1-560-156-00	PLUG, CONNECTOR (2.5MM PITCH)	
				M13	*1-560-127-00	PLUG, CONNECTOR (2.5MM PITCH)	

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TRANSISTOR</u>				R007	1-247-831-00	CARBON	1K 5% 1/6W
Q002	8-729-178-54	TRANSISTOR 2SC2785		R008	1-247-841-00	CARBON	2.7K 5% 1/6W
Q003	8-729-900-74	TRANSISTOR DTC143TS		R009	1-247-815-00	CARBON	220 5% 1/6W
Q004	8-729-178-54	TRANSISTOR 2SC2785		R010	1-247-815-00	CARBON	220 5% 1/6W
Q005	8-729-603-50	TRANSISTOR 2SC403SP		R011	1-247-815-00	CARBON	220 5% 1/6W
Q006	8-729-117-54	TRANSISTOR 2SA1175		R012	1-247-815-00	CARBON	220 5% 1/6W
Q007	8-729-178-54	TRANSISTOR 2SC2785		R013	1-247-815-00	CARBON	220 5% 1/6W
Q008	8-729-178-54	TRANSISTOR 2SC2785		R014	1-247-815-00	CARBON	220 5% 1/6W
Q009	8-729-178-54	TRANSISTOR 2SC2785		R015	1-247-815-00	CARBON	220 5% 1/6W
Q010	8-729-178-54	TRANSISTOR 2SC2785		R016	1-247-815-00	CARBON	220 5% 1/6W
Q011	8-729-117-54	TRANSISTOR 2SA1175		R017	1-247-799-00	CARBON	47 5% 1/6W
Q012	8-729-178-54	TRANSISTOR 2SC2785		R019	1-249-425-11	CARBON	4.7K 5% 1/6W
Q013	8-729-900-65	TRANSISTOR DTA144ES		R020	1-249-425-11	CARBON	4.7K 5% 1/6W
Q014	8-729-900-89	TRANSISTOR DTC144ES		R021	1-247-859-00	CARBON	15K 5% 1/6W
Q151	8-729-178-54	TRANSISTOR 2SC2785		R022	1-249-425-11	CARBON	4.7K 5% 1/6W
Q152	8-729-178-54	TRANSISTOR 2SC2785		R023	1-247-859-00	CARBON	15K 5% 1/6W
Q153	8-729-178-54	TRANSISTOR 2SC2785		R024	1-247-807-00	CARBON	100 5% 1/6W
Q154	8-729-117-54	TRANSISTOR 2SA1175		R025	1-247-859-00	CARBON	15K 5% 1/6W
Q155	8-729-117-54	TRANSISTOR 2SA1175		R026	1-249-433-11	CARBON	22K 5% 1/6W
Q156	8-729-900-89	TRANSISTOR DTC144ES		R027	1-247-867-00	CARBON	33K 5% 1/6W
Q157	8-729-900-36	TRANSISTOR DTC124ES		R028	1-249-433-11	CARBON	22K 5% 1/6W
Q158	8-729-178-54	TRANSISTOR 2SC2785		R029	1-249-433-11	CARBON	22K 5% 1/6W
Q159	8-729-178-54	TRANSISTOR 2SC2785		R030	1-249-433-11	CARBON	22K 5% 1/6W
Q160	8-729-178-54	TRANSISTOR 2SC2785		R031	1-249-433-11	CARBON	22K 5% 1/6W
Q161	8-729-178-54	TRANSISTOR 2SC2785		R033	1-247-837-00	CARBON	1.8K 5% 1/8W
Q162	8-729-117-54	TRANSISTOR 2SA1175		R034	1-247-823-00	CARBON	470 5% 1/6W
Q163	8-729-178-54	TRANSISTOR 2SC2785		R035	1-247-823-00	CARBON	470 5% 1/6W
Q164	8-729-178-54	TRANSISTOR 2SC2785		R036	1-247-823-00	CARBON	470 5% 1/6W
Q165	8-729-178-54	TRANSISTOR 2SC2785		R037	1-247-831-00	CARBON	1K 5% 1/6W
Q166	8-729-117-54	TRANSISTOR 2SA1175		R038	1-249-433-11	CARBON	22K 5% 1/6W
Q167	8-729-117-54	TRANSISTOR 2SA1175		R039	1-247-829-00	CARBON	820 5% 1/6W
Q168	8-729-178-54	TRANSISTOR 2SC2785		R040	1-247-843-00	CARBON	3.3K 5% 1/6W
Q169	8-729-178-54	TRANSISTOR 2SC2785		R041	1-249-429-11	CARBON	10K 5% 1/6W
Q170	8-729-900-89	TRANSISTOR DTC144ES		R042	1-249-433-11	CARBON	22K 5% 1/6W
Q501	8-729-901-59	TRANSISTOR BF199		R043	1-249-437-11	CARBON	47K 5% 1/6W
Q502	8-729-900-36	TRANSISTOR DTC124ES		R044	1-249-437-11	CARBON	47K 5% 1/6W
Q503	8-729-178-54	TRANSISTOR 2SC2785		R045	1-249-437-11	CARBON	47K 5% 1/6W
Q504	8-729-178-54	TRANSISTOR 2SC2785		R046	1-249-437-11	CARBON	47K 5% 1/6W
Q505	8-729-178-54	TRANSISTOR 2SC2785		R047	1-249-437-11	CARBON	47K 5% 1/6W
Q506	8-729-117-54	TRANSISTOR 2SA1175		R048	1-247-883-00	CARBON	150K 5% 1/6W
Q507	8-729-117-54	TRANSISTOR 2SA1175		R049	1-247-879-00	CARBON	100K 5% 1/6W
Q508	8-729-178-54	TRANSISTOR 2SC2785		R050	1-249-433-11	CARBON	22K 5% 1/6W
Q509	8-729-178-54	TRANSISTOR 2SC2785		R051	1-247-831-00	CARBON	1K 5% 1/6W
Q510	8-729-117-54	TRANSISTOR 2SA1175		R052	1-249-437-11	CARBON	47K 5% 1/6W
Q511	8-729-178-54	TRANSISTOR 2SC2785		R054	1-249-425-11	CARBON	4.7K 5% 1/6W
Q512	8-729-178-54	TRANSISTOR 2SC2785		R055	1-249-421-11	CARBON	2.2K 5% 1/6W
<u>RESISTOR</u>				R056	1-249-421-11	CARBON	2.2K 5% 1/6W
R001	1-247-831-00	CARBON	1K 5% 1/6W	R057	1-249-421-11	CARBON	2.2K 5% 1/6W
R002	1-247-831-00	CARBON	1K 5% 1/6W	R058	1-249-421-11	CARBON	2.2K 5% 1/6W
R003	1-247-831-00	CARBON	1K 5% 1/6W	R059	1-249-421-11	CARBON	2.2K 5% 1/6W
R005	1-249-429-11	CARBON	10K 5% 1/6W	R060	1-249-421-11	CARBON	2.2K 5% 1/6W
R006	1-249-437-11	CARBON	47K 5% 1/6W	R064	1-249-437-11	CARBON	47K 5% 1/6W
				R065	1-249-433-11	CARBON	22K 5% 1/6W

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f.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
066	1-249-437-11	CARBON	47K 5% 1/6W	R511	1-247-853-00	CARBON	8.2K 5% 1/6W
067	1-249-437-11	CARBON	47K 5% 1/6W	R512	1-247-831-00	CARBON	1K 5% 1/6W
068	1-247-891-00	CARBON	330K 5% 1/6W	R513	1-247-827-00	CARBON	680 5% 1/6W
069	1-249-437-11	CARBON	47K 5% 1/6W	R514	1-247-851-00	CARBON	6.8K 5% 1/6W
151	1-247-833-00	CARBON	1.2K 5% 1/6W	R515	1-247-837-00	CARBON	1.8K 5% 1/6W
152	1-247-833-00	CARBON	1.2K 5% 1/6W	R516	1-247-829-00	CARBON	820 5% 1/6W
153	1-249-421-11	CARBON	2.2K 5% 1/6W	R517	1-247-829-00	CARBON	820 5% 1/6W
154	1-247-859-00	CARBON	15K 5% 1/6W	R518	1-247-859-00	CARBON	15K 5% 1/6W
155	1-249-429-11	CARBON	10K 5% 1/6W	R519	1-249-425-11	CARBON	4.7K 5% 1/6W
156	1-247-831-00	CARBON	1K 5% 1/6W	R520	1-247-873-00	CARBON	56K 5% 1/6W
157	1-247-823-00	CARBON	470 5% 1/6W	R521	1-249-440-11	CARBON	82K 5% 1/6W
158	1-247-823-00	CARBON	470 5% 1/6W	R522	1-247-823-00	CARBON	470 5% 1/6W
159	1-247-831-00	CARBON	1K 5% 1/6W	R523	1-247-843-00	CARBON	3.3K 5% 1/6W
160	1-247-823-00	CARBON	470 5% 1/6W	R524	1-247-883-00	CARBON	150K 5% 1/6W
161	1-247-823-00	CARBON	470 5% 1/6W	R525	1-249-433-11	CARBON	22K 5% 1/6W
162	1-249-414-11	CARBON	560 5% 1/6W	R526	1-247-859-00	CARBON	15K 5% 1/6W
163	1-247-831-00	CARBON	1K 5% 1/6W	R527	1-249-419-11	CARBON	1.5K 5% 1/6W
164	1-249-429-11	CARBON	10K 5% 1/6W	R528	1-249-419-11	CARBON	1.5K 5% 1/6W
165	1-247-831-00	CARBON	1K 5% 1/6W	R529	1-247-849-00	CARBON	5.6K 5% 1/6W
166	1-247-821-00	CARBON	390 5% 1/6W	R530	1-249-429-11	CARBON	10K 5% 1/6W
167	1-247-817-00	CARBON	270 5% 1/6W	R531	1-249-429-11	CARBON	10K 5% 1/6W
168	1-247-831-00	CARBON	1K 5% 1/6W	R532	1-249-421-11	CARBON	2.2K 5% 1/6W
169	1-247-853-00	CARBON	8.2K 5% 1/6W	R533	1-249-421-11	CARBON	2.2K 5% 1/6W
170	1-249-429-11	CARBON	10K 5% 1/6W	R534	1-249-433-11	CARBON	22K 5% 1/6W
171	1-249-414-11	CARBON	560 5% 1/6W	R535	1-249-429-11	CARBON	10K 5% 1/6W
172	1-247-833-00	CARBON	1.2K 5% 1/6W	R536	1-249-433-11	CARBON	22K 5% 1/6W
173	1-247-837-00	CARBON	1.8K 5% 1/6W	R537	1-247-869-00	CARBON	39K 5% 1/6W
174	1-247-827-00	CARBON	680 5% 1/6W	R539	1-247-895-00	CARBON	470K 5% 1/6W
175	1-249-414-11	CARBON	560 5% 1/6W	R540	1-247-895-00	CARBON	470K 5% 1/6W
176	1-249-419-11	CARBON	1.5K 5% 1/6W	R541	1-249-425-11	CARBON	4.7K 5% 1/6W
177	1-249-389-11	CARBON	4.7 5% 1/6W	F R542	1-249-429-11	CARBON	10K 5% 1/6W
178	1-249-389-11	CARBON	4.7 5% 1/6W	F R543	1-247-827-00	CARBON	680 5% 1/6W
179	1-247-833-00	CARBON	1.2K 5% 1/6W	R544	1-247-895-00	CARBON	470K 5% 1/6W
180	1-247-837-00	CARBON	1.8K 5% 1/6W	R545	1-247-895-00	CARBON	470K 5% 1/6W
181	1-247-827-00	CARBON	680 5% 1/6W	R546	1-247-895-00	CARBON	470K 5% 1/6W
182	1-249-414-11	CARBON	560 5% 1/6W	R547	1-247-895-00	CARBON	470K 5% 1/6W
183	1-249-419-11	CARBON	1.5K 5% 1/6W	R548	1-247-831-00	CARBON	1K 5% 1/6W
184	1-249-389-11	CARBON	4.7 5% 1/6W	F R549	1-247-831-00	CARBON	1K 5% 1/6W
185	1-249-389-11	CARBON	4.7 5% 1/6W	F R551	1-249-429-11	CARBON	10K 5% 1/6W
186	1-247-831-00	CARBON	1K 5% 1/6W	R552	1-249-429-11	CARBON	10K 5% 1/6W
187	1-247-807-00	CARBON	100 5% 1/6W	R553	1-249-440-11	CARBON	82K 5% 1/6W
188	1-247-807-00	CARBON	100 5% 1/6W	R554	1-249-440-11	CARBON	82K 5% 1/6W
189	1-249-437-11	CARBON	47K 5% 1/6W	R556	1-247-823-00	CARBON	470 5% 1/6W
R501	1-247-853-00	CARBON	8.2K 5% 1/6W	R557	1-247-823-00	CARBON	470 5% 1/6W
R502	1-247-853-00	CARBON	8.2K 5% 1/6W	R558	1-247-823-00	CARBON	470 5% 1/6W
R503	1-247-853-00	CARBON	8.2K 5% 1/6W	R559	1-247-823-00	CARBON	470 5% 1/6W
R504	1-247-853-00	CARBON	8.2K 5% 1/6W	R560	1-247-807-00	CARBON	100 5% 1/6W
R505	1-247-845-00	CARBON	3.9K 5% 1/6W	R561	1-247-807-00	CARBON	100 5% 1/6W
R506	1-249-419-11	CARBON	1.5K 5% 1/6W	R562	1-249-429-11	CARBON	10K 5% 1/6W
R507	1-247-821-00	CARBON	390 5% 1/6W	R563	1-249-433-11	CARBON	22K 5% 1/6W
R508	1-247-831-00	CARBON	1K 5% 1/6W	R564	1-249-425-11	CARBON	4.7K 5% 1/6W
R509	1-247-853-00	CARBON	8.2K 5% 1/6W	R565	1-249-437-11	CARBON	47K 5% 1/6W
R510	1-247-831-00	CARBON	1K 5% 1/6W	R566	1-249-437-11	CARBON	47K 5% 1/6W

M	H1	H2	HL
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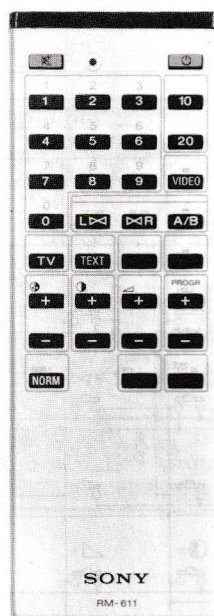
Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R567	1-247-887-00	CARBON 220K 5% 1/6W				VARIABLE RESISTOR	
R568	1-247-887-00	CARBON 220K 5% 1/6W					
R569	1-247-859-00	CARBON 15K 5% 1/6W					
R570	1-247-895-00	CARBON 470K 5% 1/6W		RV451	1-228-366-21	RES, VAR, CARBON 20K/20K	
R571	1-247-895-00	CARBON 470K 5% 1/6W				SWITCH	
		TRANSFORMER		S451	1-553-329-00	SWITCH, PUSH (MONO KEY)	
T151	1-404-495-00	COIL		S452	1-553-329-00	SWITCH, PUSH (MONO KEY)	
T501	1-404-557-11	COIL		S453	1-553-329-00	SWITCH, PUSH (MONO KEY)	
T502	1-404-557-11	COIL		S454	1-553-766-00	SWITCH, KEY BOARD	
T503	1-404-557-11	COIL		S455	1-553-766-00	SWITCH, KEY BOARD	
T504	1-404-557-11	COIL		S456	1-553-766-00	SWITCH, KEY BOARD	
T505	1-404-477-00	COIL, IF		S457	1-553-766-00	SWITCH, KEY BOARD	
		CRYSTAL		S458	1-553-766-00	SWITCH, KEY BOARD	
X001	1-527-790-00	OSCILLATOR, CERAMIC		S459	1-553-766-00	SWITCH, KEY BOARD	
				S460	1-553-766-00	SWITCH, KEY BOARD	
				S463	1-553-206-00	SWITCH, SLIDE	
*****				*****			
	*1-617-679-11	H1 BOARD			*1-617-680-11	H2 BOARD	
		*****				*****	
		CAPACITOR				SWITCH	
C451	1-123-369-00	ELECT 4.7MF 20% 50V		S461	1-553-766-00	SWITCH, KEY BOARD	
C452	1-102-973-00	CERAMIC 100PF 10% 50V		S462	1-553-766-00	SWITCH, KEY BOARD	
C453	1-123-318-00	ELECT 33MF 20% 16V		*****			
C454	1-123-333-00	ELECT 100MF 20% 16V			*1-617-681-11	HL BOARD	
C455	1-123-356-00	ELECT 10MF 20% 16V				*****	
C456	1-161-055-00	CERAMIC 0.022MF 10% 25V				DIODE	
C457	1-123-369-00	ELECT 4.7MF 20% 50V		D401	8-719-311-23	DIODE SEL112NP-N	
C458	1-123-321-00	ELECT 220MF 20% 16V		*4-345-836-00	HOLDER (S-2), LED; D401		
C459	1-102-973-00	CERAMIC 100PF 10% 50V		D402	8-719-311-23	DIODE SEL112NP-N	
C460	1-123-333-00	ELECT 100MF 20% 16V		*4-345-836-00	HOLDER (S-2), LED; D402		
C461	1-123-356-00	ELECT 10MF 20% 16V		D403	8-719-311-23	DIODE SEL112NP-N	
C462	1-161-055-00	CERAMIC 0.022MF 10% 25V		*4-345-836-00	HOLDER (S-2), LED; D403		
		IC		D404	8-719-311-23	DIODE SEL112NP-N	
IC451	8-759-841-75	IC LA4175		*4-345-836-00	HOLDER (S-2), LED; D404		
		COIL		D405	8-719-311-23	DIODE SEL112NP-N	
L451	1-408-163-00	MICRO INDUCTOR 5.6MMH		*4-345-836-00	HOLDER (S-2), LED; D405		
		RESISTOR		D406	8-719-102-34	DIODE SG232D	
R451	1-247-829-00	CARBON 820 5% 1/6W		*4-345-836-00	HOLDER (S-2), LED; D406		
R452	1-249-429-11	CARBON 10K 5% 1/6W		D407	8-719-114-34	DIODE SY432D	
R453	1-247-797-00	CARBON 39 5% 1/6W		*4-345-836-00	HOLDER (S-2), LED; D407		
R454	1-247-831-00	CARBON 1K 5% 1/6W		D408	8-719-311-23	DIODE SEL112NP-N	
R455	1-249-429-11	CARBON 10K 5% 1/6W		*4-345-836-00	HOLDER (S-2), LED; D408		
R456	1-247-829-00	CARBON 820 5% 1/6W		D409	8-719-311-23	DIODE SEL112NP-N	
R457	1-247-797-00	CARBON 39 5% 1/6W		*4-345-836-00	HOLDER (S-2), LED; D409		
R458	1-247-831-00	CARBON 1K 5% 1/6W		D410	8-719-908-08	DIODE SL-1274	
R459	1-247-823-00	CARBON 470 5% 1/6W		*1-526-638-00	SOCKET, IC (9P); D410		
R460	1-247-823-00	CARBON 470 5% 1/6W		D411	8-719-102-34	DIODE SG232D	
				*4-345-836-00	HOLDER (S-2), LED; D411		

HL	K	Z
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>RESISTOR</u>				<u>Z BOARD</u>			
R401	1-249-421-11	CARBON	2.2K 5% 1/6W	*****			
R402	1-247-813-00	CARBON	180 5% 1/6W	<u>CAPACITOR</u>			
*****				C481	1-161-013-00	CERAMIC	0.01MF 10% 25V
*1-607-156-00 K BOARD				C482	1-161-013-00	CERAMIC	0.01MF 10% 25V
*****				<u>JACK</u>			
<u>CONNECTOR</u>				J501	1-507-657-00	JACK (LARGE TYPE)	
KP701	1-536-713-00	TERMINAL BOARD, CONNECTOR		<u>CONNECTOR</u>			
KP702	1-536-713-00	TERMINAL BOARD, CONNECTOR		Z1	*1-560-278-00	PLUG, CONNECTOR 3P	
<u>RESISTOR</u>				*****			
R701	1-247-804-00	CARBON	75 5% 1/6W	<u>MISCELLANEOUS</u>			
R702	1-249-421-11	CARBON	2.2K 5% 1/6W	*****			
R703	1-249-421-11	CARBON	2.2K 5% 1/6W	A.1-526-854-11 SOCKET, ANTENNA (WITH PLUG)			
R704	1-247-899-00	CARBON	680K 5% 1/6W	A.1-551-270-31 CORD, POWER			
R705	1-247-899-00	CARBON	680K 5% 1/6W	*1-555-110-00 CABLE, PIN			
R706	1-249-421-11	CARBON	2.2K 5% 1/6W	S901 A.1-570-052-12 SWITCH, PUSH (AC POWER)(1 KEY)			
R707	1-249-421-11	CARBON	2.2K 5% 1/6W	*****			
R708	1-247-804-00	CARBON	75 5% 1/6W	<u>ACCESSORIES AND PACKING MATERIALS</u>			
R709	1-249-421-11	CARBON	2.2K 5% 1/6W	*****			
R710	1-249-421-11	CARBON	2.2K 5% 1/6W	Part No. Description Remark			
R711	1-247-899-00	CARBON	680K 5% 1/6W	A-1009-093-A	COMMANDER ASSY (RM-611)		
R712	1-247-899-00	CARBON	680K 5% 1/6W	1-555-259-31	CABLE, VIDEO (VK-20)		
R713	1-249-421-11	CARBON	2.2K 5% 1/6W	*3-703-669-03	CARD, CAUTION, FTZ		
R714	1-249-421-11	CARBON	2.2K 5% 1/6W	4-309-407-00	BAG, POLYETHYLENE		
R715	1-247-803-00	CARBON	68 5% 1/6W	4-357-830-00	CUSHION (SIDE)		
R716	1-247-803-00	CARBON	68 5% 1/6W	4-357-831-00	CUSHION (UPPER)		
R717	1-247-831-00	CARBON	1K 5% 1/6W	*4-361-195-01	INDIVIDUAL CARTON		
R718	1-247-823-00	CARBON	470 5% 1/6W	4-482-202-41	MANUAL, INSTRUCTION		
R719	1-247-823-00	CARBON	470 5% 1/6W				
R720	1-247-887-00	CARBON	220K 5% 1/6W				
R721	1-247-887-00	CARBON	220K 5% 1/6W				
R722	1-247-823-00	CARBON	470 5% 1/6W				
R723	1-247-823-00	CARBON	470 5% 1/6W				
R724	1-247-803-00	CARBON	68 5% 1/6W				
R725	1-247-803-00	CARBON	68 5% 1/6W				
R726	1-247-831-00	CARBON	1K 5% 1/6W				
R727	1-247-823-00	CARBON	470 5% 1/6W				
R728	1-247-823-00	CARBON	470 5% 1/6W				
R729	1-247-887-00	CARBON	220K 5% 1/6W				
R730	1-247-887-00	CARBON	220K 5% 1/6W				
R731	1-247-823-00	CARBON	470 5% 1/6W				
R732	1-247-823-00	CARBON	470 5% 1/6W				

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

SERVICE MANUAL

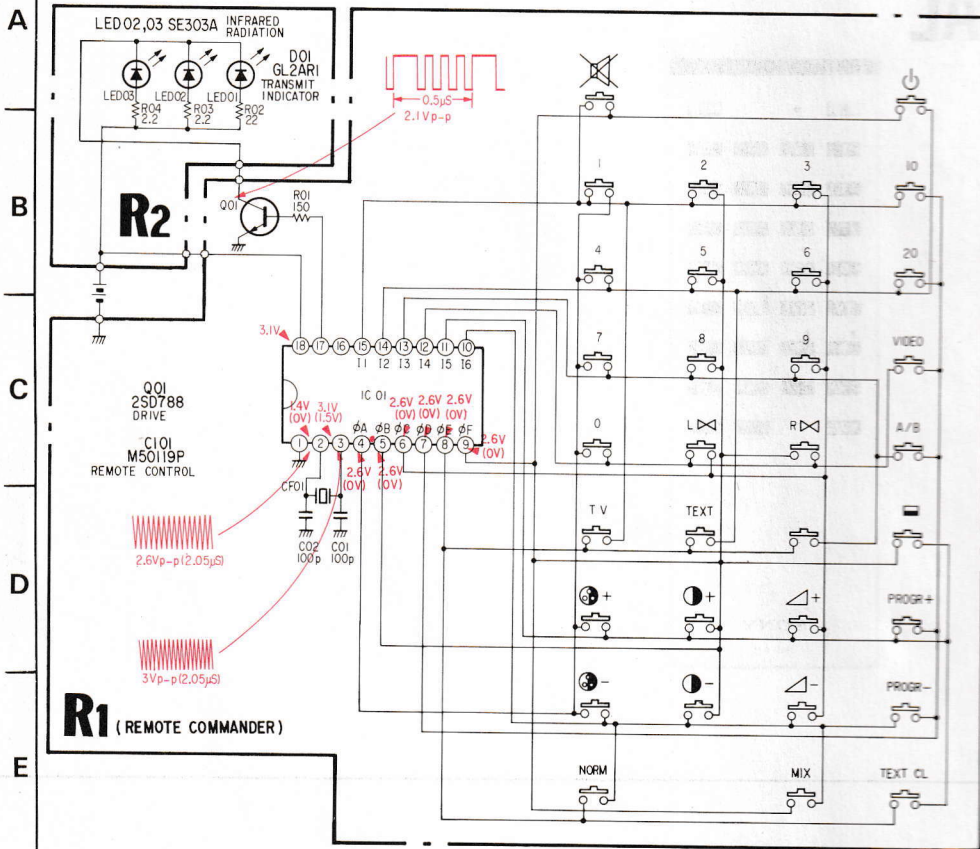


SPECIFICATIONS

- Remote Control System:** Infrared control
- Power Requirements:** 3 V dc
2 batteries IEC designation R6 (size AA)
- Dimensions:** Approx. 65 x 185 x 18 mm (w/h/d)
- Weight:** Approx. 170 g
incl. batteries
- Accessory supplied:** Battery IEC designation R6 (2 pcs.)

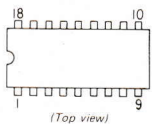
REMOTE COMMANDER
SONY

SCHEMATIC DIAGRAM



MODE	CFM	10	11	12	13	14	15	17	Q01 B	Q01 C
	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
1	3.1	3.1	3.1	3.1	3.1	2.6	0	0	2.4	
2	3.1	3.1	3.1	3.1	3.1	2.6	0	0	2.4	
3	3.1	3.1	3.1	3.1	3.1	2.6	0	0	2.4	
4	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
5	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
6	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
7	3.1	3.1	3.1	2.6	3.1	3.1	0	0	2.4	
8	3.1	3.1	3.1	2.6	3.1	3.1	0	0	2.4	
9	3.1	3.1	3.1	2.6	3.1	3.1	0	0	2.4	
0	3.1	3.1	2.6	3.1	3.1	3.1	0	0	2.4	
10	3.1	3.1	3.1	3.1	3.1	2.6	0	0	2.4	
20	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
VIDEO	3.1	3.1	2.6	3.1	3.1	3.1	0	0	2.4	
L	3.1	3.1	2.6	3.1	3.1	3.1	0.2	0.1	2.2	
R	3.1	3.1	2.6	3.1	3.1	3.1	0.2	0.1	2.2	
A/B	3.1	3.1	3.1	2.6	3.1	3.1	0.2	0.1	2.2	
TV	3.1	3.1	3.1	3.1	3.1	2.6	0	0	2.4	
TEXT	3.1	3.1	3.1	3.1	2.6	3.1	0	0	2.4	
	3.1	3.1	3.1	2.6	3.1	3.1	0	0	2.4	
	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
+	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
-	2.6	3.1	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
+	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
-	2.6	3.1	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
+	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
-	2.6	3.1	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
PROG +	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
PROG -	2.6	3.1	3.1	3.1	3.1	3.1	0.2	0.1	2.2	
NORM	2.6	3.1	3.1	3.1	3.1	3.1	0	0	2.4	
MEK	2.6	3.1	3.1	3.1	3.1	3.1	0	0	2.4	
TEXT CL	3.1	2.6	3.1	3.1	3.1	3.1	0.2	0.1	2.2	

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k: $1000\ \Omega$, M: $1000\ \text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages and waveform are for when A/B button is pressed.
- Voltages in () are taken with button not pressed.

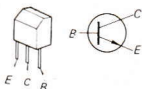


(Top view.

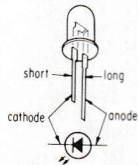
2SC1475
2SD789



2SD774



SE 303A
SE 303AX

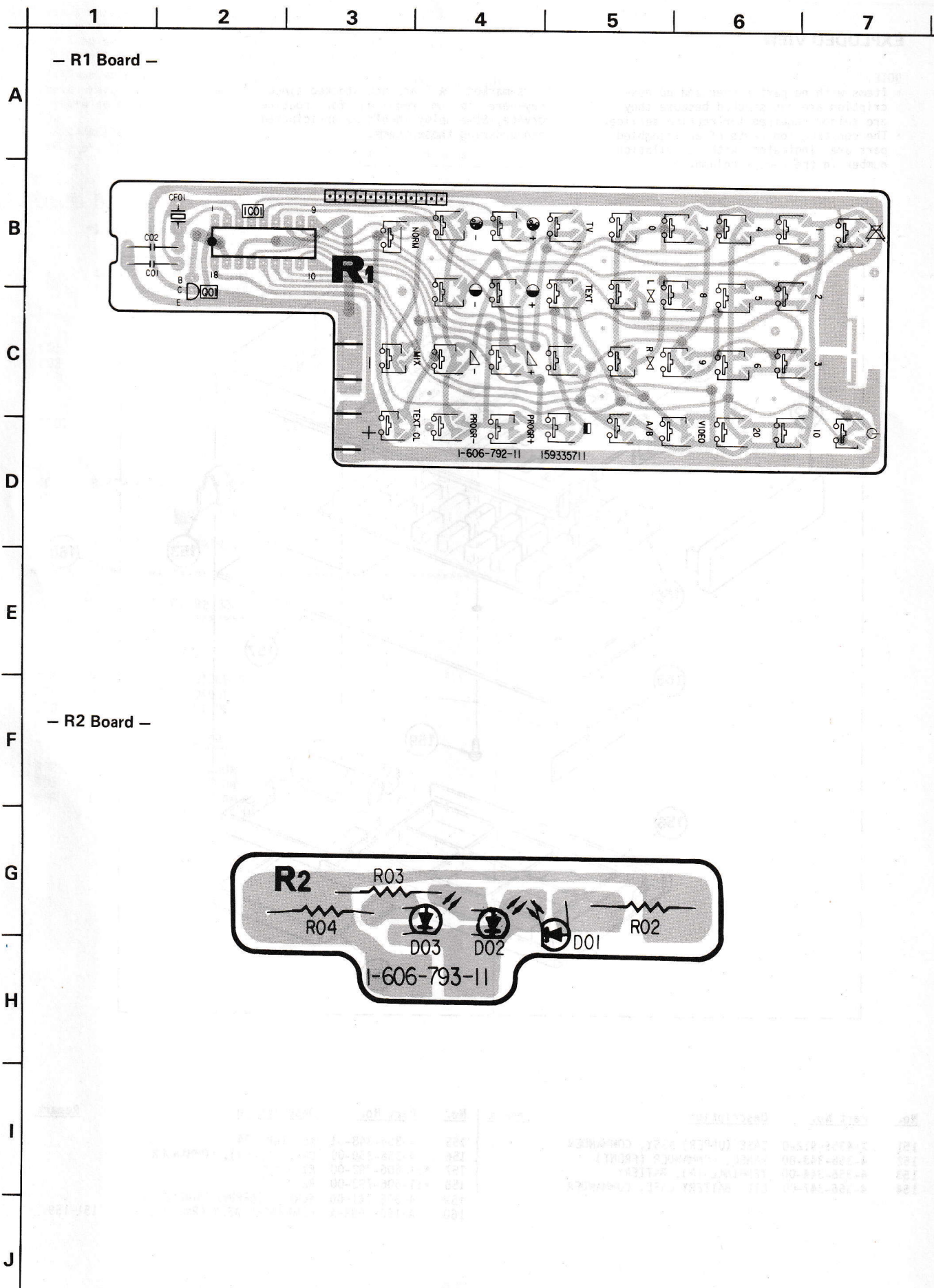


GL2ARI



MOUNTING DIAGRAM

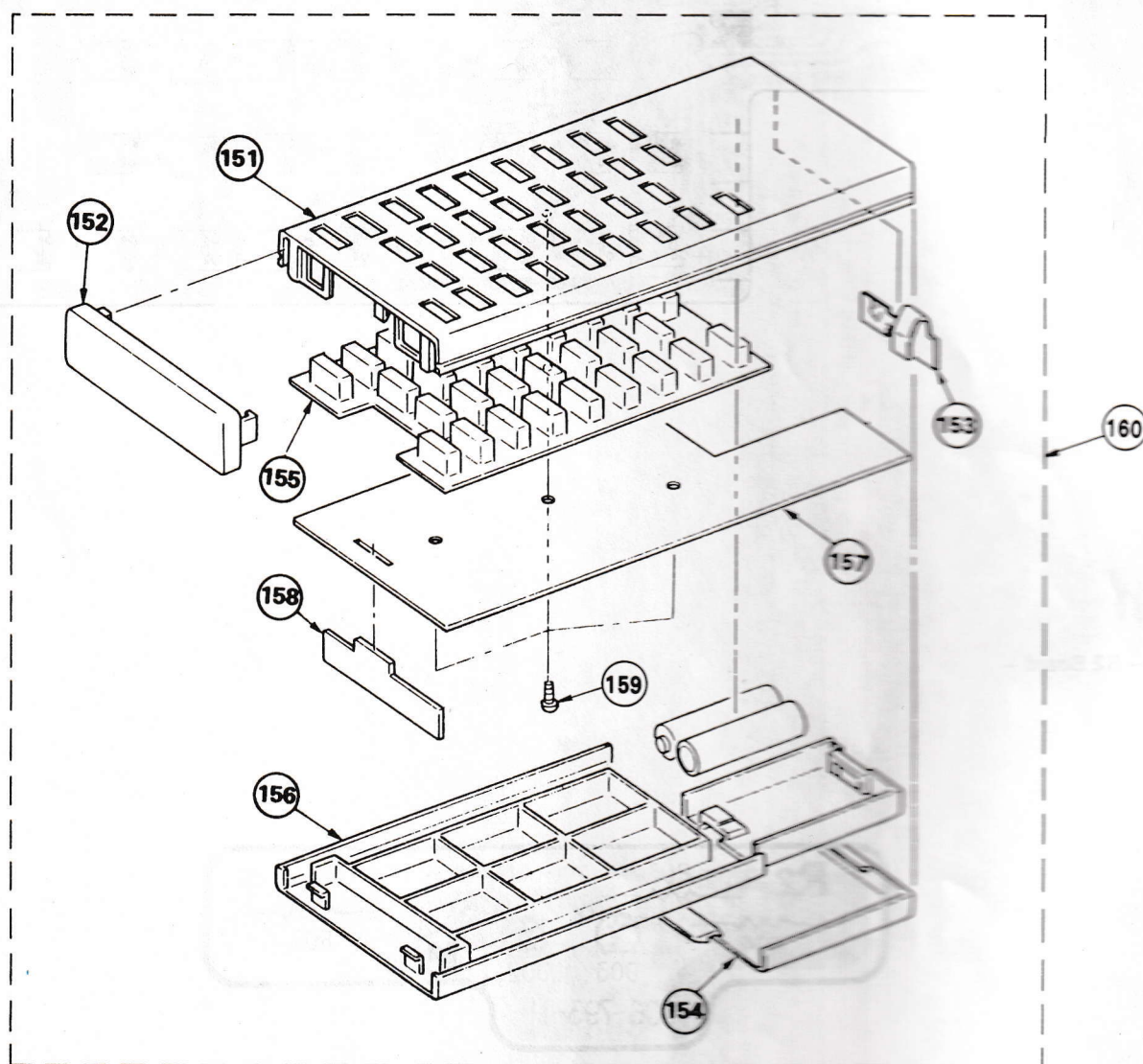
— Conductor Side —



EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



No.	Part No.	Description
151	X-4356-912-0	CASE (UPPER) ASSY, COMMANDER
152	4-356-343-00	PANEL, COMMANDER (FRONT)
153	4-356-344-00	TERMINAL (A), BATTERY
154	4-356-347-00	LID, BATTERY CASE, COMMANDER

No.	Part No.	Description	Remark
155	4-356-348-00	KEY TOP, 34	
156	4-356-350-00	CASE (LOWER), COMMANDER	
157	★1-606-790-00	KEY BOARD	
158	★1-606-790-00	KEY BOARD	
159	4-356-340-00	SCREEN, TAPPING (BND 2X5)	
160	A-1009-005-A	COMMANDER ASSY (RM-611)	

151-159

R1 **R2****ELECTRICAL PARTS LIST**

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

- MF : μ F, PF : μ PF

RESISTORS

- All resistors are in ohms
- F : nonflammable

COILS

- MMH : mH, UH : μ H

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
	*1-606-792-00	R1 BOARD *****	
	4-356-345-00	TERMINAL (B), BATTERY	
	4-356-346-00	TERMINAL (C), BATTERY	
		<u>CAPACITOR</u>	
C01	1-161-271-00	CERAMIC 100PF	5% 50V
C02	1-161-271-00	CERAMIC 100PF	5% 50V
		<u>FILTER</u>	
CF01	1-527-476-00	OSCILLATOR, CERAMIC	
		<u>IC</u>	
IC01	8-759-600-07	IC M50119P	
		<u>TRANSISTOR</u>	
Q01	8-729-177-43	TRANSISTOR 2SD774	

	*1-606-793-00	R2 BOARD *****	
		<u>DIODE</u>	
D01	8-719-900-23	DIODE GL-2AR1	
LED02	8-719-107-82	DIODE SE303AY	
LED03	8-719-107-82	DIODE SE303AY	
		<u>RESISTOR</u>	
R02	1-247-692-11	CARBON 22	5% 1/4W
R03	1-249-451-11	CARBON 2.2	5% 1/4W
R04	1-249-451-11	CARBON 2.2	5% 1/4W