SONY

TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

KV-2092ME2B/RM-656

Chassis No.: SCC-B21G

NOTE

THIS SCHEMATIC DIAGRAM IS FOR USE BY YOUR SERVICE TECHNICIAN.
KEEP THIS DIAGRAM HANDY FOR FUTURE REFERENCE.

Sony Corporation

4-490-327-01

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Printed in Japan

Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : μμF
- Indication of resistance, which does not have one for rating electrical power is as follows.

  Pitch: 5mm, Rating electrical power: 1/4W

  kΩ : 1000Ω, MΩ : 1000kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- —— : B+ bus.

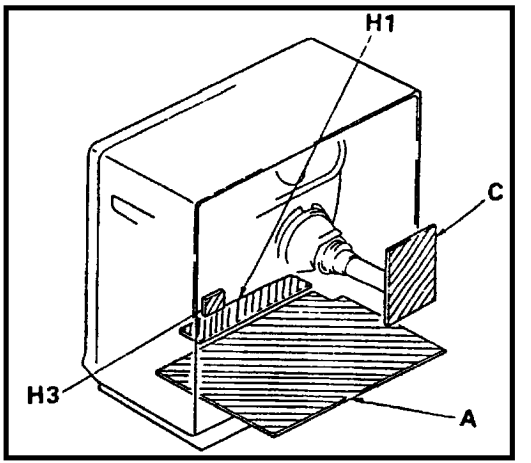
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken with a color-bar-signal input.
  no mark : with PAL color-bar signal received.
  ( ) : with SECAM color-bar signal received.

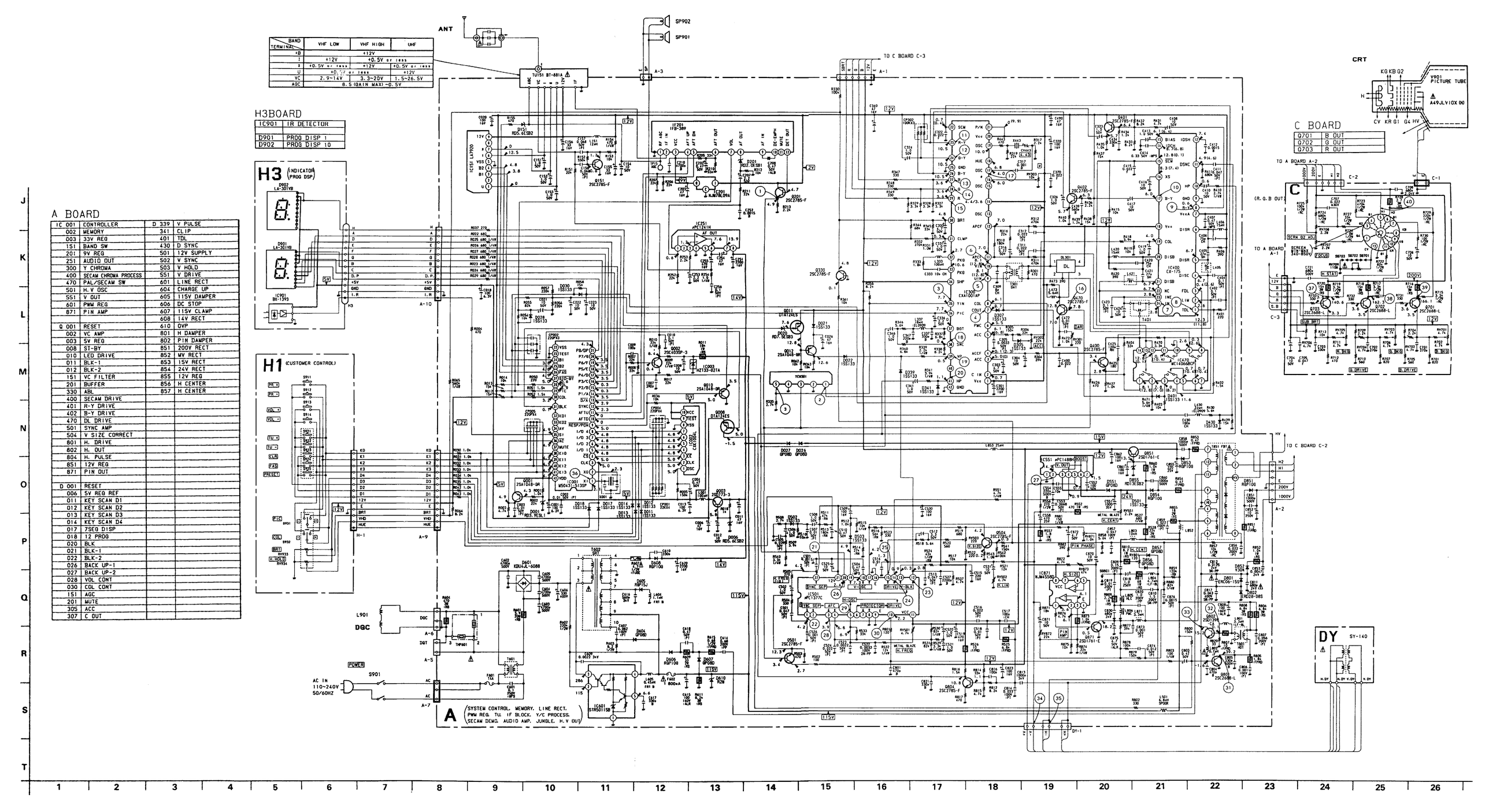
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Reference information

RESISTOR	:	RN	METAL FILM
	:	RC	SOLID
	:	FPRD	NONFLAMMABLE CARBON
	:	FUSE	NONFLAMMABLE FUSIBLE
	:	RS	NONFLAMMABLE WIREWOUNC
	:	RB	NONFLAMMABLE CEMENT
COIL	:	LF-8L	MICRO INDUCTOR
CAPACITOR	:	TA	TANTALUM
	:	PS	STYROL
	:	PP	POLYPROPYLENE
	:	PT	MYLAR
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	:	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATUNE
	:	ALR	HIGH RIPPLE

CIRCUIT BOARDS LOCATION

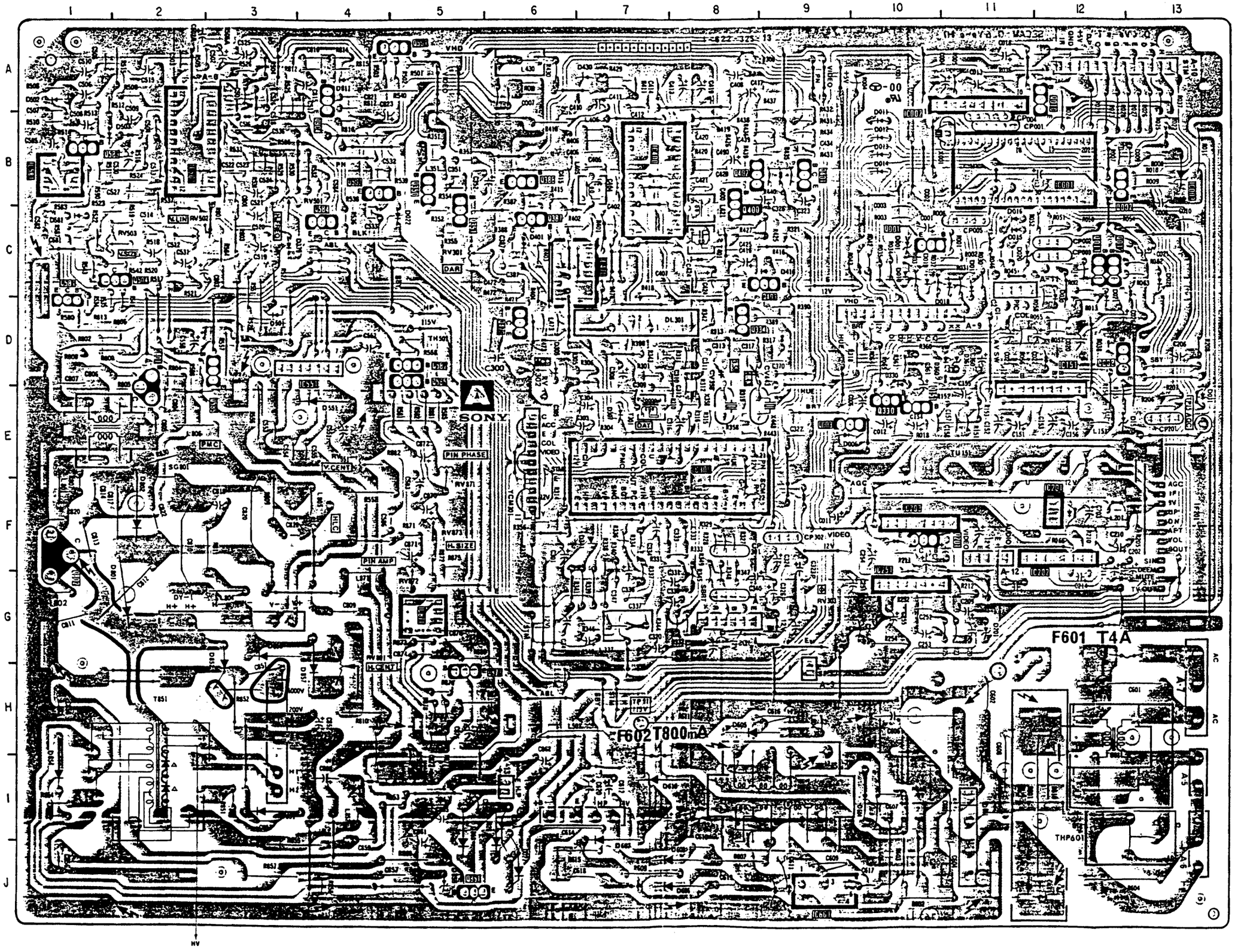



ANT
SP902
SP901
TU151 BT-881A
TO C BOARD C-3
TO C BOARD C-2
CRT
V901 PICTURE TUBE
A49JLV10X 00
KG KB G2
H
CV KR G1 G4 HV
C BOARD
Q701 B OUT
Q702 G OUT
Q703 R OUT
TO A BOARD A-2
TO A BOARD A-1
(R.G.B OUT)
SCRN G2 ADJ
SCREEN 640~860V
FOCUS
H3BOARD
IC901 IR DETECTOR
D901 PROG DISP 1
D902 PROG DISP 10
H3 (INDICATOR PROG DISP)
H1 (CUSTOMER CONTROL)
A BOARD
IC 001 CONTROLLER
002 MEMORY
003 33V REG
151 BAND SW
201 9V REG
251 AUDIO OUT
300 Y CHROMA
400 SECAM CHROMA PROCESS
470 PAL/SECAM SW
501 H.V OSC
551 V OUT
601 PWM REG
871 PIN AMP
Q 001 RESET
002 VC AMP
003 5V REG
008 ST-BY
010 LED DRIVE
011 BLK-1
012 BLK-2
151 VC FILTER
201 BUFFER
330 ABL
400 SECAM DRIVE
401 R-Y DRIVE
402 B-Y DRIVE
470 DL DRIVE
501 SYNC AMP
504 V SIZE CORRECT
801 H. DRIVE
802 H. OUT
804 H. PULSE
851 12V REG
871 PIN OUT
D 001 RESET
006 5V REG REF
011 KEY SCAN D1
012 KEY SCAN D2
013 KEY SCAN D3
014 KEY SCAN D4
017 7SEG DISP
018 12 PROG
020 BLK
021 BLK-1
022 BLK-2
026 BACK UP-1
027 BACK UP-2
028 VOL CONT
030 COL CONT
151 AGC
201 MUTE
305 ACC
307 C OUT
D 339 V PULSE
341 CLIP
401 TDL
430 D SYNC
501 12V SUPPLY
502 V SYNC
503 V HOLD
551 V DRIVE
601 LINE RECT
604 CHARGE UP
605 115V DAMPER
606 DC STOP
607 115V CLAMP
608 14V RECT
610 OVP
801 H DAMPER
802 PIN DAMPER
851 200V RECT
852 WV RECT
853 15V RECT
854 24V RECT
855 12V REG
856 H CENTER
857 H CENTER
A (SYSTEM CONTROL. MEMORY. LINE RECT. PWM REG. TU. IF BLOCK. Y/C PROCESS. SECAM DEMO. AUDIO AMP. JUNGLE. H. V OUT)
DY
SY-140
POWER
S901
AC IN 110~240V 50/60HZ
L901
DGC
DGT
BAND
VHF LOW
VHF HIGH
UHF
+B
+12V
I
+12V
+0.5V or less
II
+0.5V or less
+12V
+0.5V or less
U
+0.5V or less
+12V
VC
2.9~14V
3.3~20V
1.5~26.5V
AGC
8.5 (GAIN MAX) ~0.5V

MOUNTING DIAGRAMS

Note: All mounting diagrams are viewed from conductor side.

A [SYSTEM CONTROL, MEMORY, LIEN RECT, PWM REG
TU, IF BLOCK, Y/C PROCESS, SECAM DEMO,
AUDIO AMP, JUNGLE, H.V OUT]

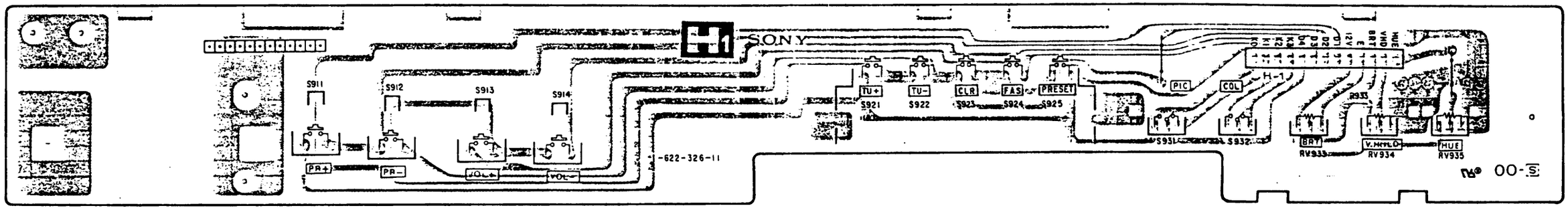


IC			
IC001	B-12	D018	C-11
IC002	A-11	D020	C-11
IC003	B-13	D021	D-12
IC151	D-12	D022	C-5
IC201	F-12	D026	J-6
IC251	G-10	D027	J-6
IC300	E-8	D028	C-13
IC400	B-7	D030	D-12
IC470	C-7	D151	E-12
IC501	B-2	D201	G-11
IC551	D-4	D305	D-6
IC601	J-9	D307	E-7
IC871	G-5	D339	C-3
		D401	C-6

TRANSISTOR			
Q001	C-10	D430	A-7
Q002	B-12	D501	D-3
Q003	E-9	D502	A-1
Q008	D-12	D503	B-1
Q010	A-12	D551	E-4
Q011	C-12	D601	I-11
Q012	C-12	D604	I-10
Q151	E-10	D605	H-8
Q201	F-10	D606	J-8
Q330	E-10	D607	I-7
Q400	C-8	D608	J-8
Q401	B-9	D610	I-7
Q402	B-8	D801	G-2
Q470	D-6	D802	F-2
Q501	A-5	D851	I-3
Q504	D-2	D852	H-3
Q801	D-2	D853	J-5
Q802	F-1	D854	I-1
Q804	A-4	D855	J-5
Q851	J-5	D856	G-3
Q871	H-5	D857	H-4

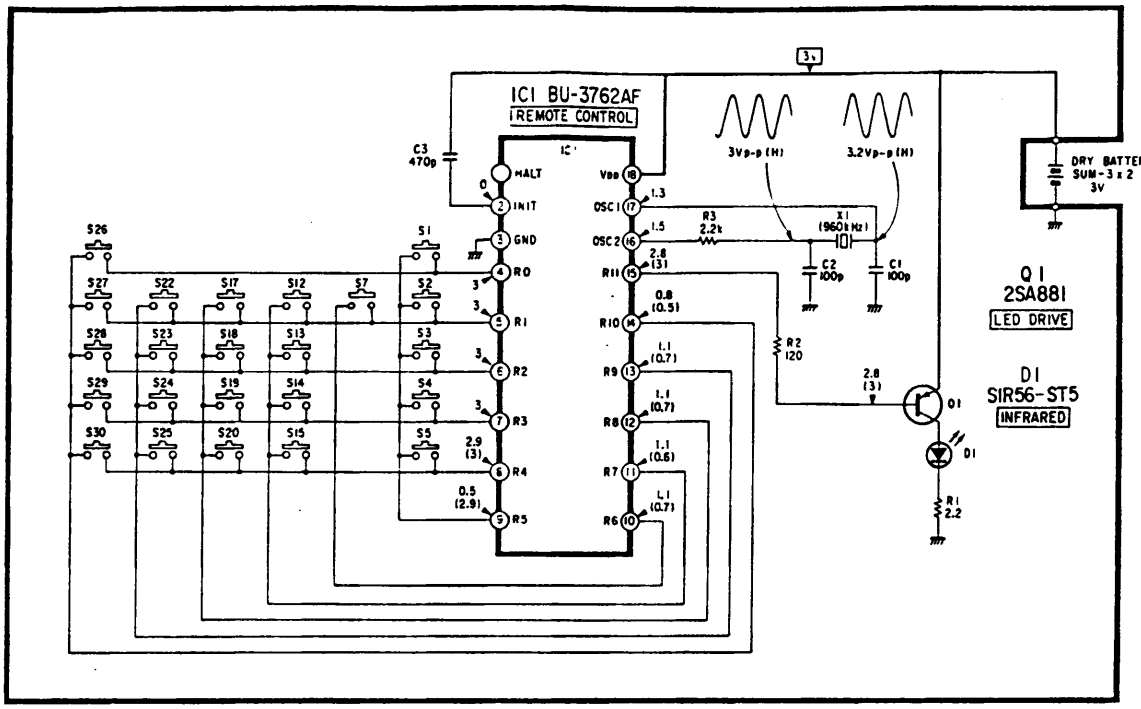
DIODE		VARIABLE RESISTOR	
D001	C-10	RV301	C-5
D006	E-9	RV302	D-6
D011	B-10	RV303	G-9
D012	B-10	RV501	B-3
D013	B-10	RV502	C-2
D014	B-10	RV503	C-1
D017	C-11	RV551	E-4
		RV801	H-4
		RV871	E-5
		RV872	F-5
		RV873	F-5

H1 [CUSTOMER CONTROL]



REMOTE COMMANDER RM-656

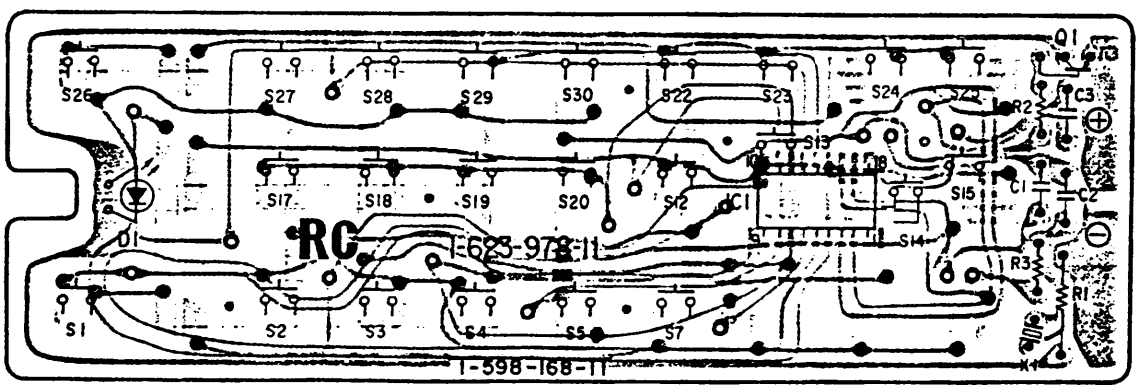
SCHEMATIC DIAGRAM



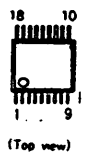
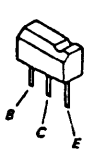
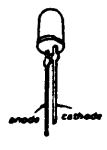
	R5	R6	R7	R8	R9	R10
R0	S1					S26
	MUTE					
R1	S2	S7	S12	S17	S22	S27
	1		+	2	+	3
R2	S3		S13	S18	S23	S28
	4		−	5	−	6
R3	S4		S14	S19	S24	S29
	7		+	8	PROGR +	9
R4	S5		S15	S20	S25	S30
	10		−	11	PROGR −	12

- All voltages are in V (volt).
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ/V digital voltmeter. No marking: S1 is depressed.
- Voltage variations may be noted due to normal production tolerances.
- Voltages and waveform are for when [1] button is pressed
- Voltages in ( ) are taken with button not pressed.
- —— B + bus.

PRINTED WIRING BOARD



SEMICONDUCTOR

BU-3762AF	2SA881 2SC1652	SIR56-ST5	SLR-932
			

SEMICONDUCTORS

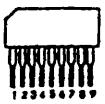
M50431-513SP
CXA1001AP



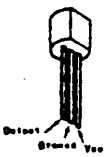
BA178N05



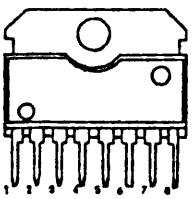
LA7920



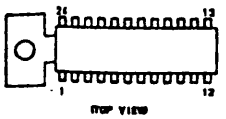
NJM78L09A



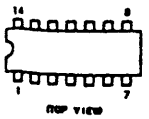
μPC1241H



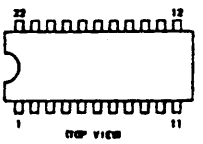
CX-175



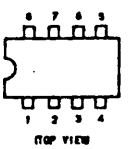
HD14066BP
MC14066BCP



μPC1377C



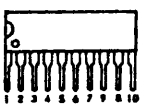
μPC4558C
NJM4558D
HA17558



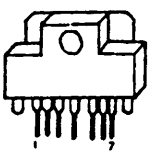
STR5011SB



CXK1004L



μPC1488H



BX-1393



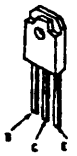
2SC2688-L
2SC2688-K
2SC2688-M



2SD773



2SD1398



2SD1761-D
2SD1761-E
2SD1761-F



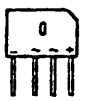
2SA1175TP-J
2SA1175-H
2SA1175-F
2SA1175-E
2SA1175-K
2SC2785TP-H
2SC2785TP-F
2SC2785TP-E
2SC2785TP-K



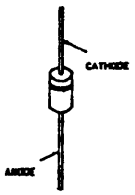
2SA1048TP-GR
2SA1115TP-E
2SA1115TP-F
2SA933S-R
2SA933S-S
DTA124ES-TP
2SC2458TP-GR
2SC2603E-TP
2SC2603F-TP
2SC1740SRT
2SC1740SST
2SC2785TP-J
2SC2785TP-H
2SC2785TP-F
2SC2785TP-K
2SC2785TP-E
2SC2603TP-E
2SC2603TP-F



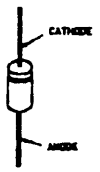
KBU4JL-6088



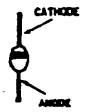
R2M
ERC06-15S
HZT33-02TA
RD2.0ES-T2B1
RD3.9ES-T2L1
RD7.5ES-T2B3
HZS13NB2T2



ES1F
ERD28-08S
GP08DPKG23
10E2-TA2B
RGP15JPKG23
RGP10GPKG23



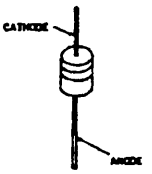
V30N



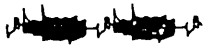
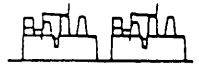
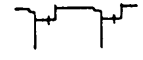
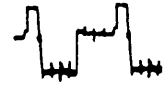
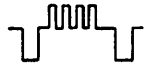
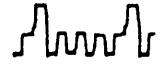
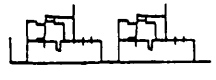
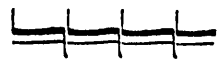
LA-301VB



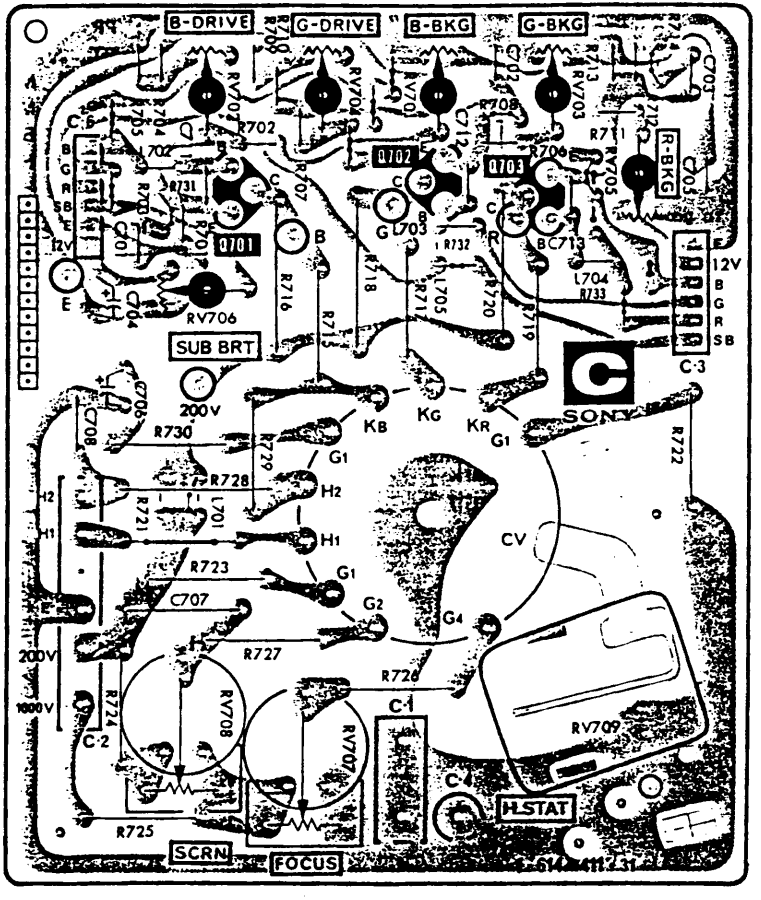
RD13ES-T2B2
RD5.6ES-T2B2
1SS119TG
1SS148-TP6
1SS133T-72



WAVE FORM

①  2.0 Vp-p (H)	⑤  PAL 0.3 Vp-p (H)	⑩  SECAM 2.2 Vp-p (H)	⑮  6.0 Vp-p (H)	⑳  2.0 Vp-p (H)	㉕  1.5 Vp-p (V)	㉚  5.6 Vp-p (H)	㉟  180 Vp-p (H)	㊵  24 Vp-p (H)
②  PAL 0.5 Vp-p (H)	⑥  PAL 0.4 Vp-p (H)	⑪  SECAM 0.6 Vp-p (H)	⑯  PAL 0.12 Vp-p (H)	㉑  1.8 Vp-p (H)	㉖  9.0 Vp-p (V)	㉛  95 Vp-p (H)	㊱  3.8 Vp-p (7MHz)	
②  SECAM 0.5 Vp-p (H)	⑦  SECAM 0.75 Vp-p (H)	⑫  SECAM 0.6 Vp-p (H)	⑰  1.8 Vp-p (4.43MHZ)	㉒  1.8 Vp-p (H)	㉗  50 Vp-p (H)	㉜  20 Vp-p (H)	㊲  100 Vp-p (H)	
③  1.2 Vp-p (H)	⑧  SECAM 0.32 Vp-p (H)	⑬  5.8 Vp-p (H)	⑱  4.2 Vp-p (H)	㉓  11 Vp-p (V)	㉘  2.4 Vp-p (H)	㉝  1000 Vp-p (H)	㊳  95 Vp-p (H)	
④  PAL 0.3 Vp-p (H)	⑨  SECAM 2.2 Vp-p (H)	⑭  6.0 Vp-p (H)	⑲  6.6 Vp-p (V)	㉔  1.8 Vp-p (V)	㉙  4.8 Vp-p (H)	㉞  9.0 Vp-p (H)	㊴ 95 Vp-p (H)	

C [R·G·B OUT]



H3 [INDICATOR PROG DISP]

