

# SONY

## TRINITRON® COLOR TV BASIC SCHEMATIC DIAGRAM

### KV-2565MTJ/RM-827S

Chassis No. SCC-E64L

#### NOTE

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

Sony Corporation

4-038-442-01

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Printed in Japan

#### WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND  $\Delta$  MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

Note :

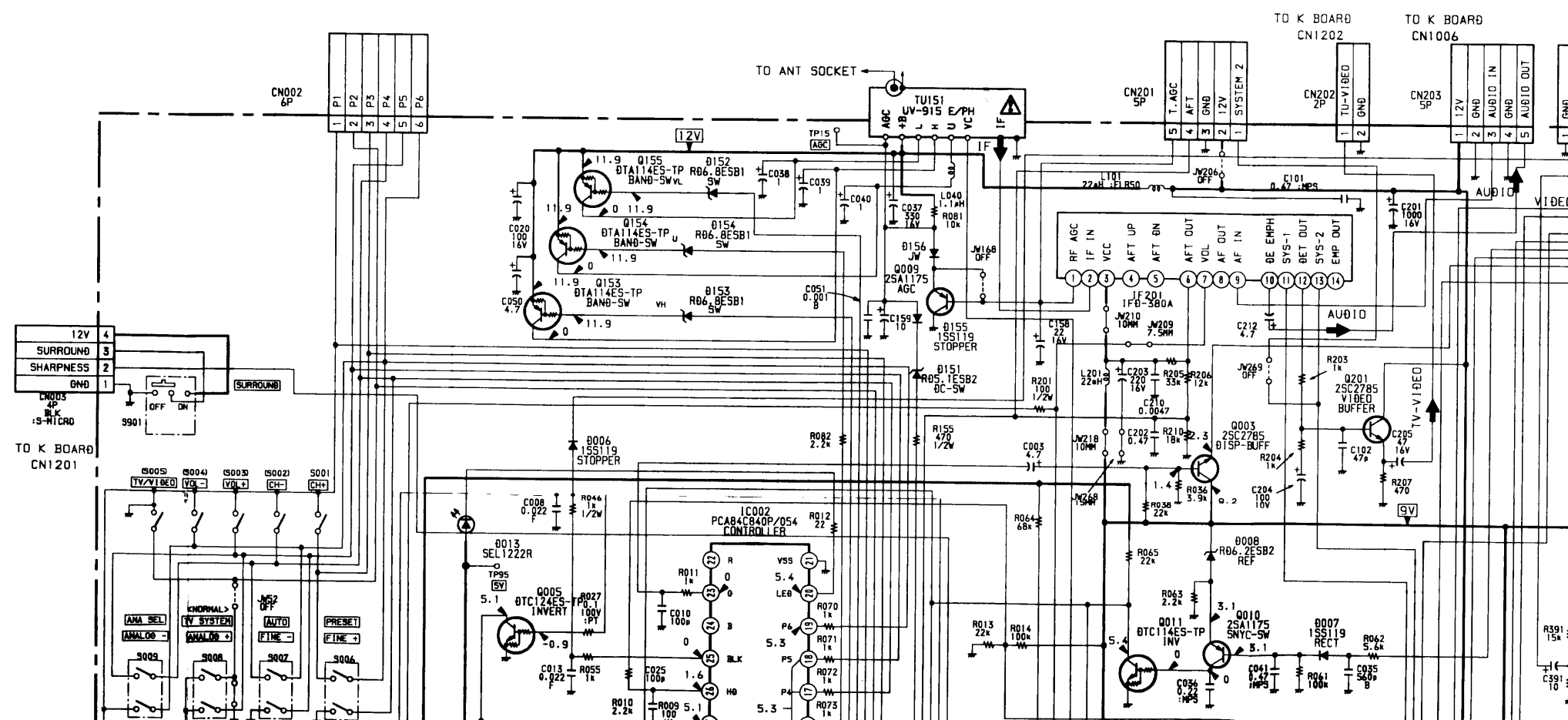
- All capacitors are in  $\mu$ F unless otherwise noted. pF:  $\mu$ F
- 50WV or less are not indicated except for electrolytics and tantalums.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

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

k  $\Omega$  : 1000  $\Omega$ , M  $\Omega$  : 1000k  $\Omega$






- : nonflammable resistor.
- : fusible resistor.
- : panel designation and adjustment for repair.
- : B+ bus.
- : signal path.
- Circled numbers refer to waveforms.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a digital multimeter. (DC 10M  $\Omega$ )
- Voltage variations may be noted due to normal production tolerances.
- Voltages are dc between ground and measurement points.
- Readings are taken with a color-bar signal input.


#### SCHEMATIC DIAGRAMS



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Rating electrical power : 1/4W

k  $\Omega$  : 1000  $\Omega$ , M  $\Omega$  : 1000k  $\Omega$

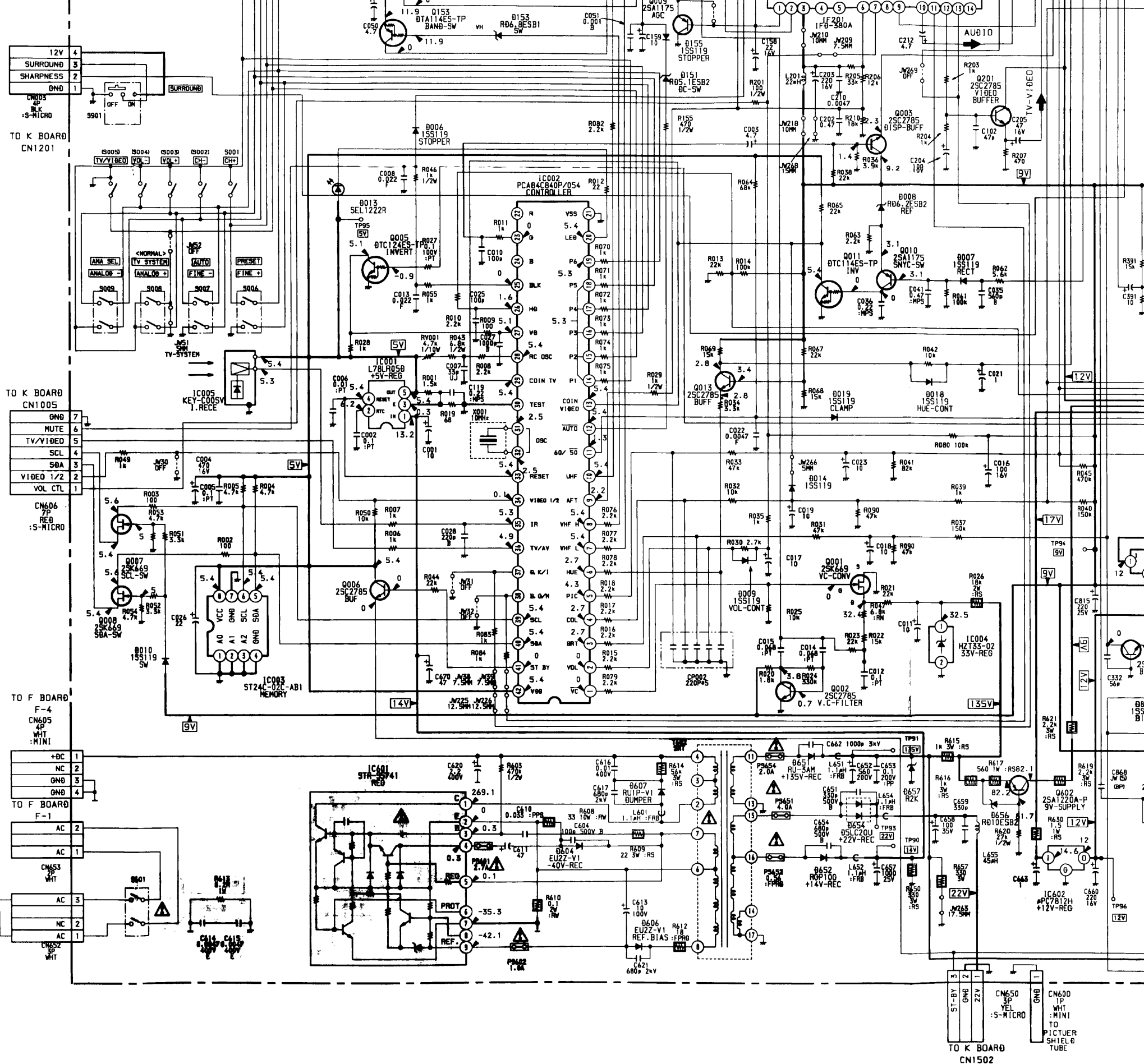
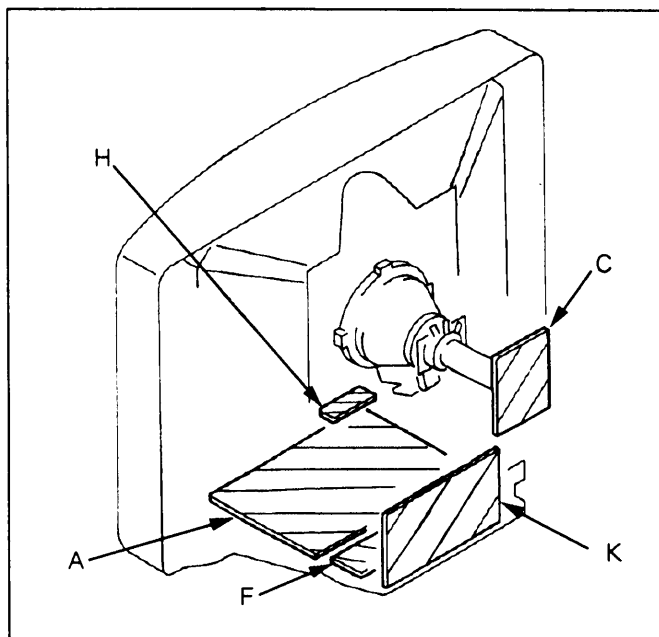
-  : nonflammable resistor.
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- Readings are taken with a digital multimeter. (DC 10M  $\Omega$ )
- Voltage variations may be noted due to normal production tolerances.
- Voltages are dc between ground and measurement points.
- Readings are taken with a color-bar signal input.
  - no mark : with PAL color-bar signal received.
  - ( ) : with SECAM color-bar signal received.
- As to the voltage value shown by the mark \* on the Schematic Diagram, see the another list.

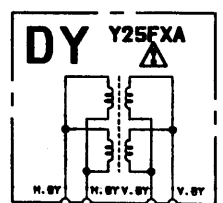
**Note:** The components identified by shading and mark  are critical for safety. Replace only with part number specified.

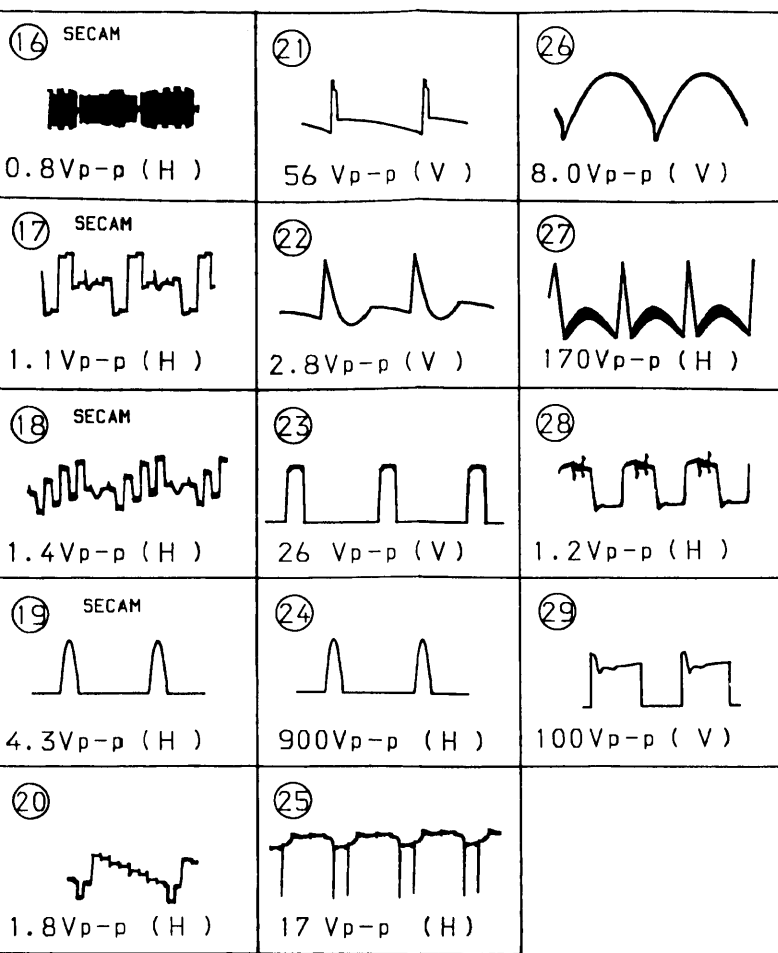
#### Reference information

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

#### CIRCUIT BOARDS LOCATION

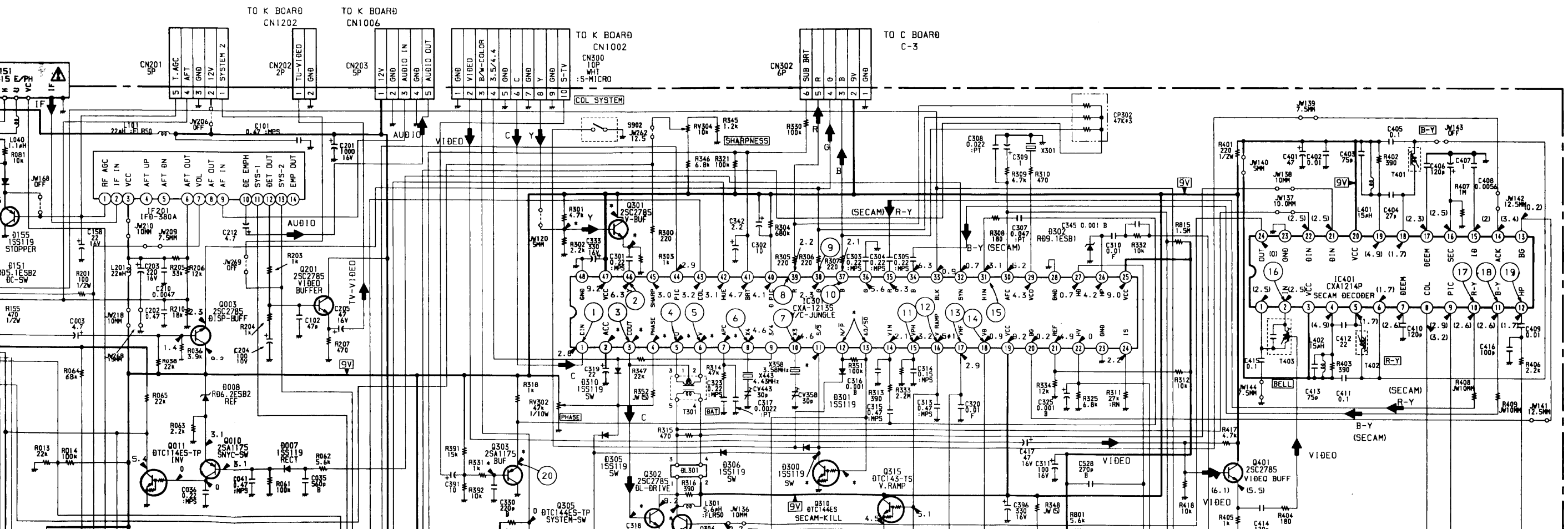
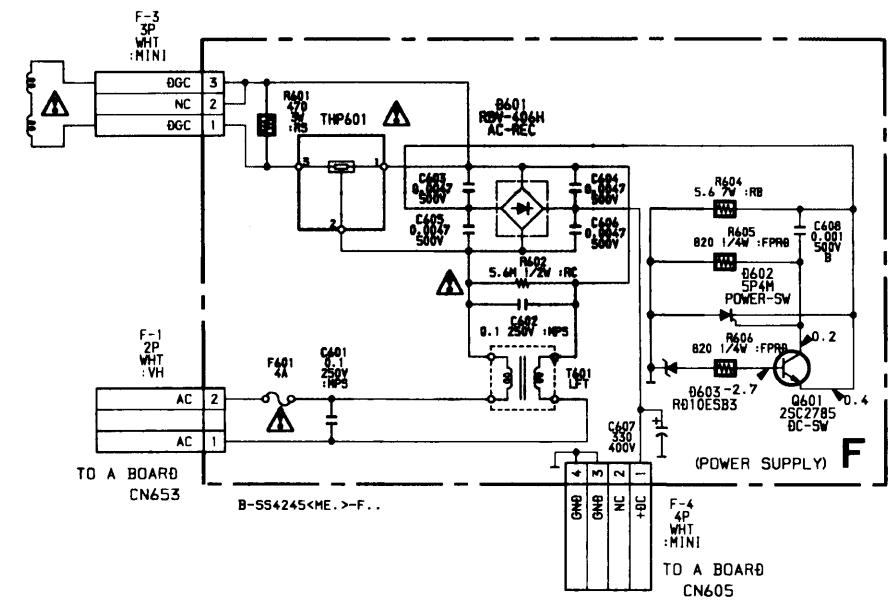
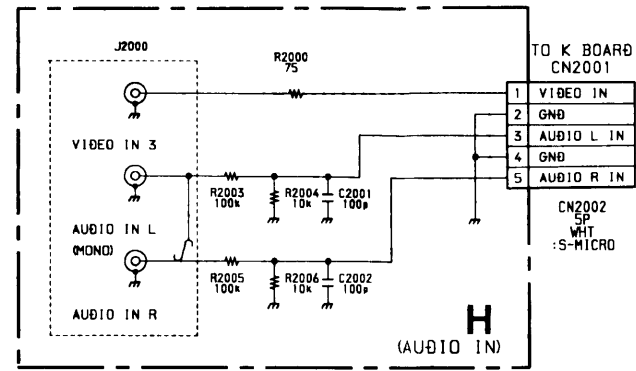


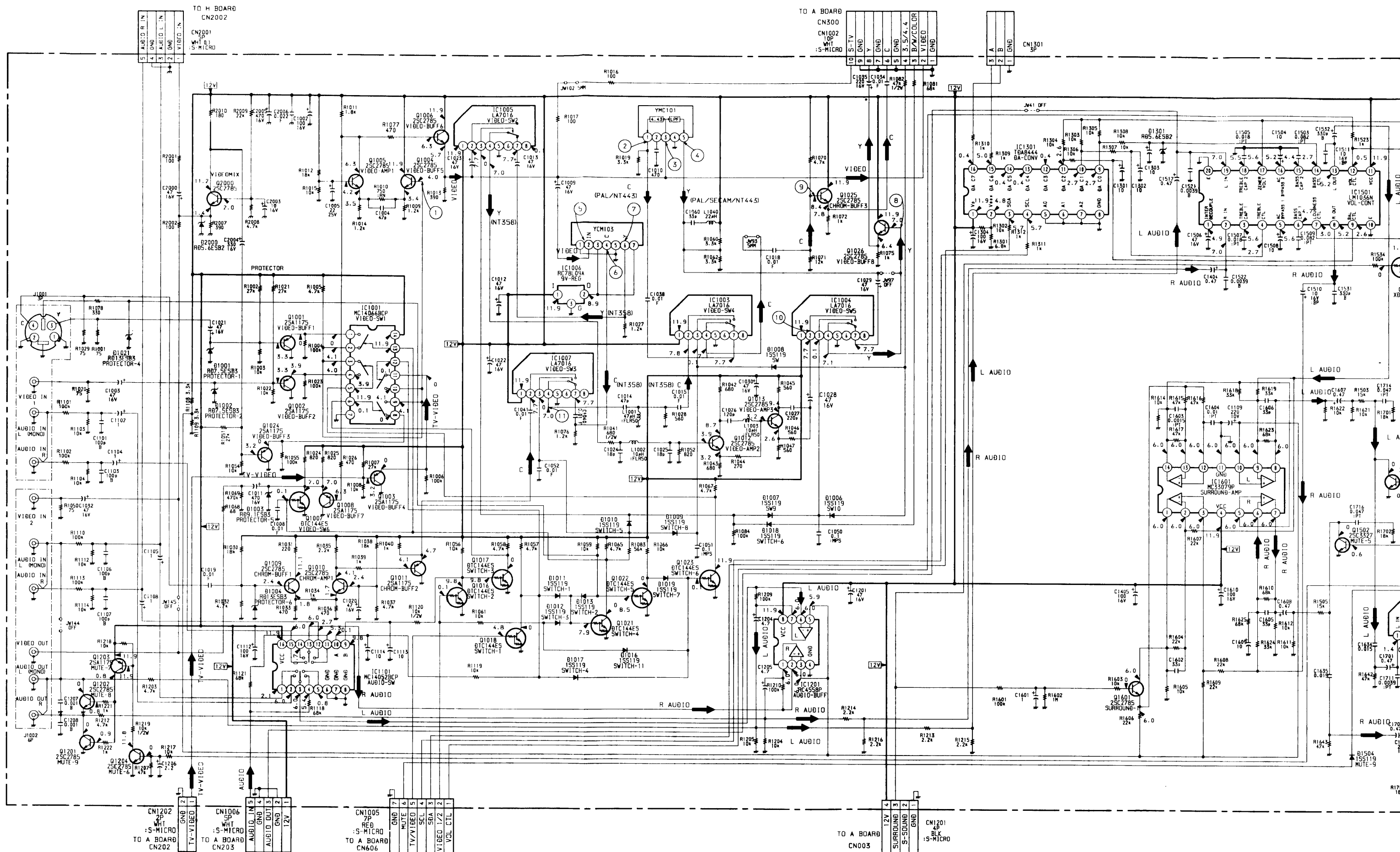




\* MARK.....Voltage List

	PAL	SECAM	NTSC4.43	NTSC3.58
IC301 ②	6.2	6.4	6.4	6.0
③	6.0	0.1	6.0	6.0
④	5.3	0.7	5.4	5.4
⑤	6.0	0.1	6.0	6.0
⑥	6.0	0.1	6.0	6.0
⑦	6.8	6.5	6.8	6.9
⑧	0.2	3.0	0.2	5.5
⑨	0.1	3.3	0	0
⑩	0.8	0.8	3.8	3.8
⑪	0.8	0.8	3.9	3.9
Q301 (B)	2.3	2.9	2.9	2.9
(E)	2.9	2.3	2.3	2.3
Q302 (B)	6.0	0.1	6.0	6.0
(E)	5.3	2.1	5.4	5.4
Q303 (B)	4.4	3.8	3.8	3.8
(E)	3.8	4.4	4.4	4.4
Q304 (E)	5.4	2.0	5.3	5.4
Q310 (B)	0.8	0.8	3.9	3.9
(C)	0.1	3.3	0	0
Q501 (B)	6.4	6.4	0.1	0.1
(C)	0	0	0.4	0.4
Q502 (B)	0.6	0.6	2.6	2.6
(C)	6.4	6.4	0.1	0.1
Q803 (B)	14.9	0.1	0.1	0.1
(C)	0.9	16.5	16.5	16.5





# PRINTED WIRING BOARDS

Note: All mounting diagrams are viewed from conductor side.

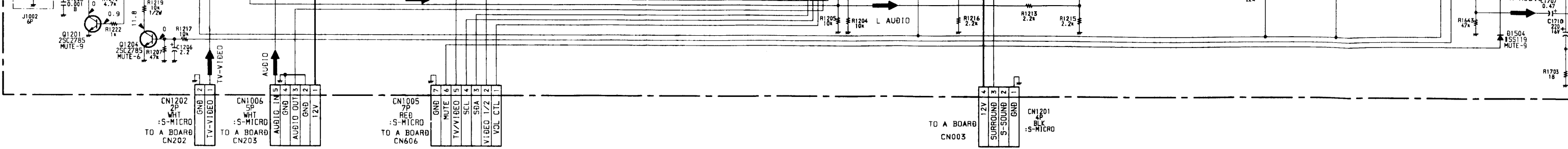
**A** [SYSTEM CONTROL, MEMORY, Y/C JUNGLE, SYSTEM SW, SECAM DECODER, H/V OUT]

**C** [R. G. B OUT]



IC D151 C-1

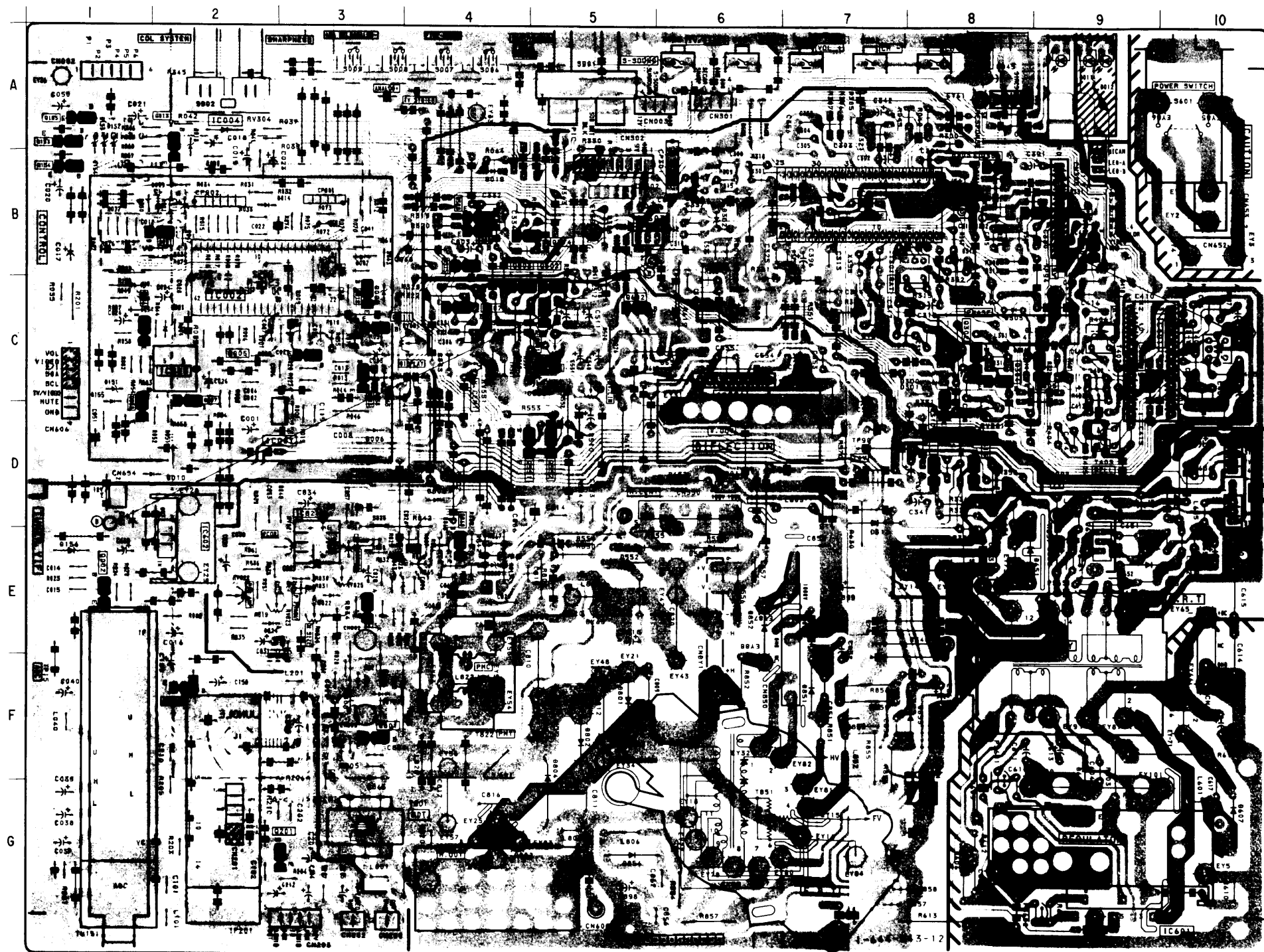




# PRINTED WIRING BOARDS

**Note:** All mounting diagrams are viewed from conductor side.

**A** [SYSTEM CONTROL, MEMORY, Y/C JUNGLE, SYSTEM SW, SECAM DECODER, H/V OUT]



IC			
IC001	D-2	D151	C-1
IC002	C-2	D152	A-1
IC003	C-2	D153	A-1
IC004	A-2	D154	A-1
IC005	A-8	D155	C-1
IC301	B-7	D300	C-8
IC401	C-9	D301	C-8
IC551	C-6	D302	B-6
IC601	G-9	D305	C-8
IC602	E-2	D306	C-8
IC603	B-5	D310	B-8
IC821	E-3	D311	D-7
		D551	D-7
		D552	E-5
		D553	E-6
		D604	F-9
		D606	G-8
		D607	G-10
		D651	E-8
		D652	E-9
		D654	D-9
		D656	C-6
		D657	D-6
		D801	F-5
		D802	F-5
		D803	D-4
		D804	F-5
		D810	F-3
		D821	F-3
		D822	E-3
		D823	E-3
		D824	E-2
		D825	E-3
		D851	F-7
		D852	E-6
		D853	F-8
		D854	G-5
		D860	E-4

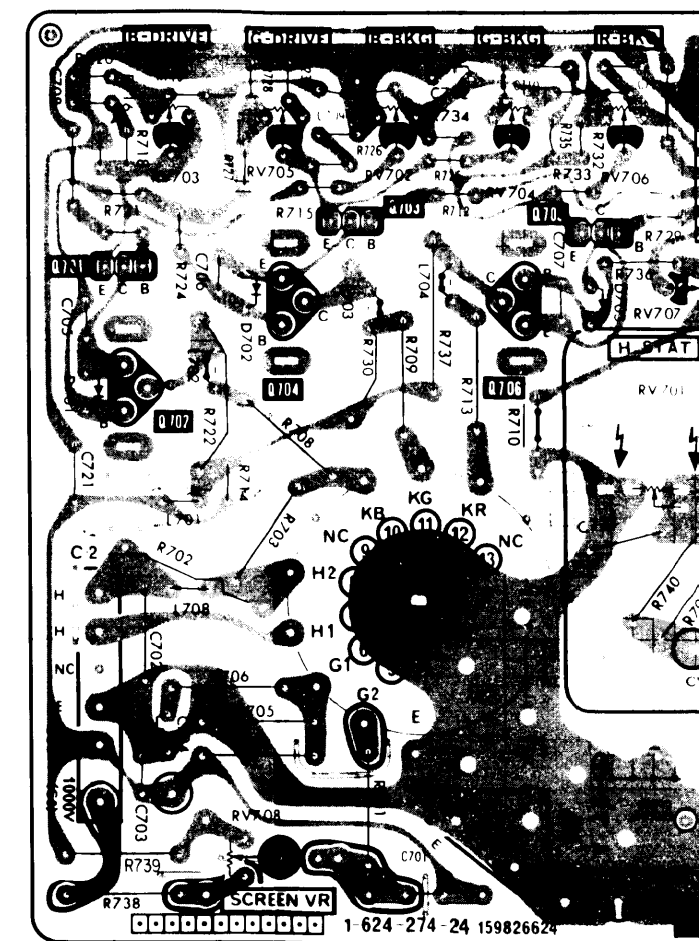
  

TRANSISTOR			
Q001	B-2	RV001	C-4
Q002	E-1	RV301	D-8
Q003	C-3	RV302	C-8
Q005	C-3	RV304	A-3
Q006	C-1	RV502	C-5
Q007	C-2	RV503	C-5
Q008	C-1	RV551	C-4
Q010	C-3	RV821	E-3
Q011	C-3	RV822	E-2
Q013	A-2	RV823	E-2
Q153	A-1	RV824	E-3
Q154	B-2	RV825	E-3
Q155	A-1		
Q201	G-3		
Q301	B-8		
Q302	C-8		
Q303	B-9		
Q304	C-8		
Q305	C-9		
Q307	C-4		
Q308	B-4		
Q309	B-4		
Q310	D-8		
Q312	D-8		
Q313	D-8		
Q314	B-5		
Q315	B-4		
Q401	B-9		
Q501	C-5		
Q502	C-5		
Q551	D-4		
Q552	D-5		
Q602	C-5		
Q801	F-3		
Q802	G-4		
Q803	C-4		
Q860	E-4		

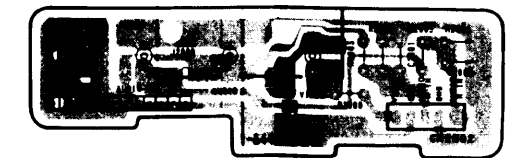
  

DIODE	
D006	D-3
D007	B-3
D008	C-3
D009	B-2
D010	D-2
D013	A-9
D014	B-2
D018	A-2
D019	B-4

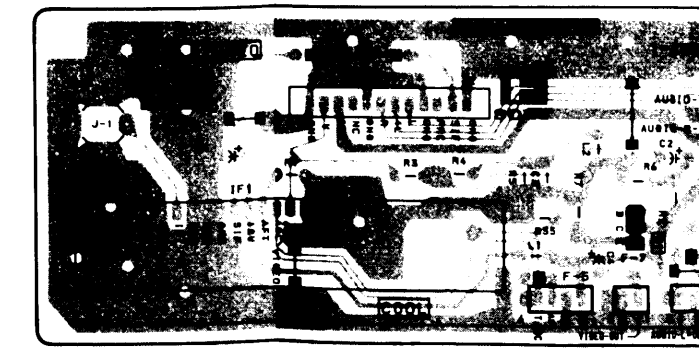
**C** [R. G. B OUT]



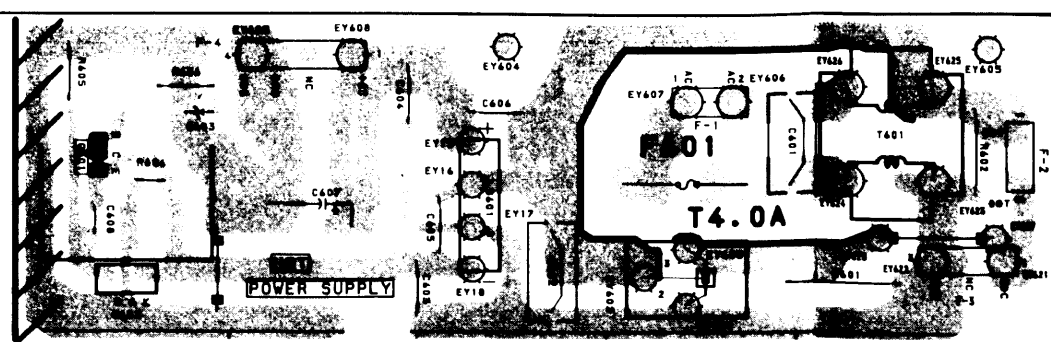
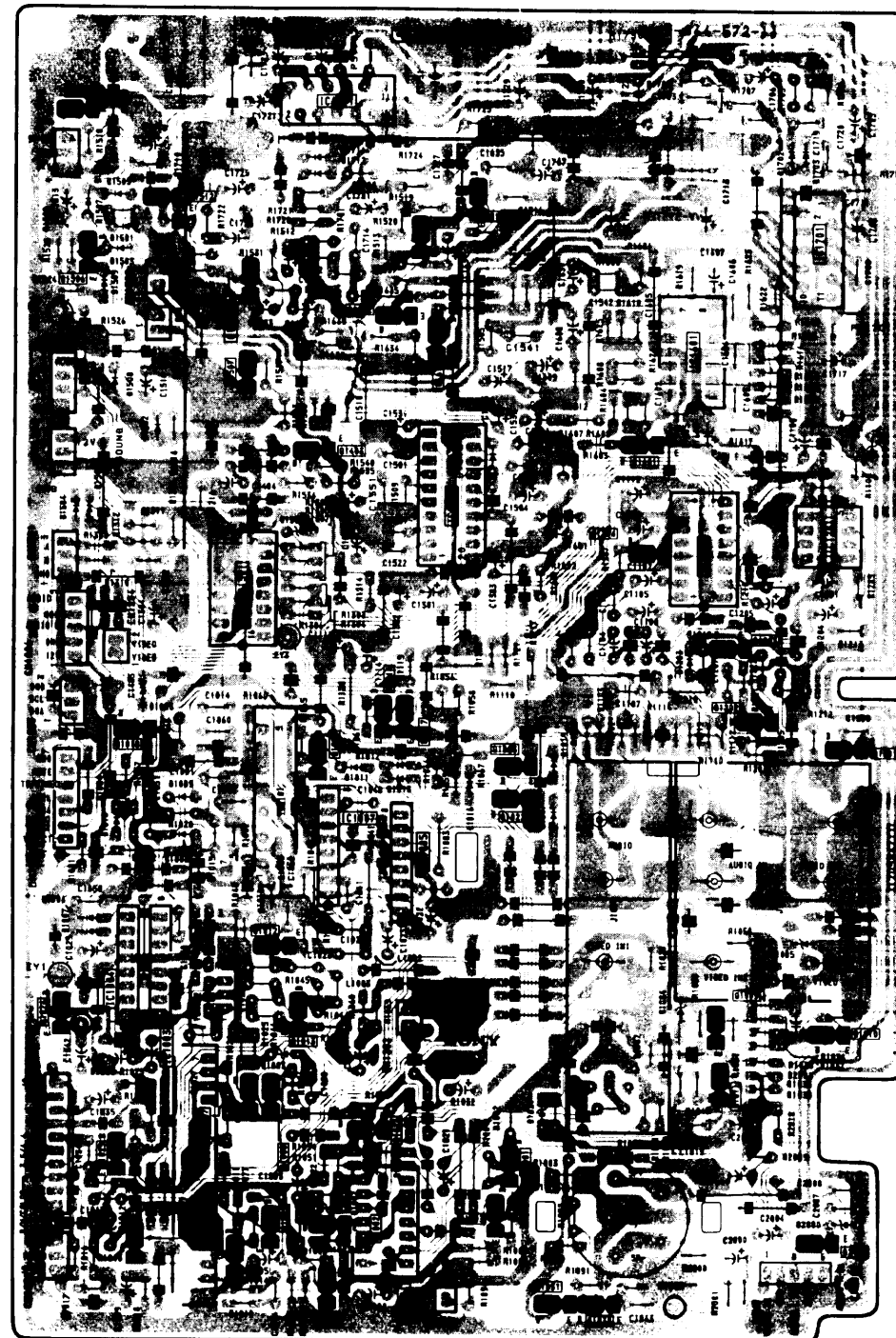
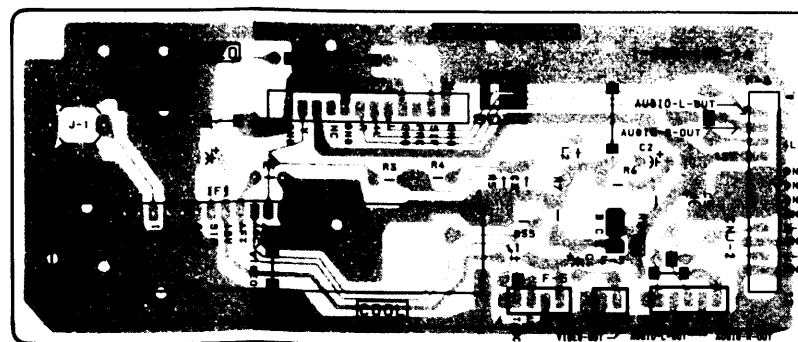
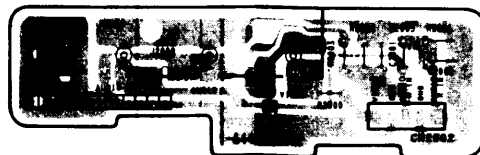
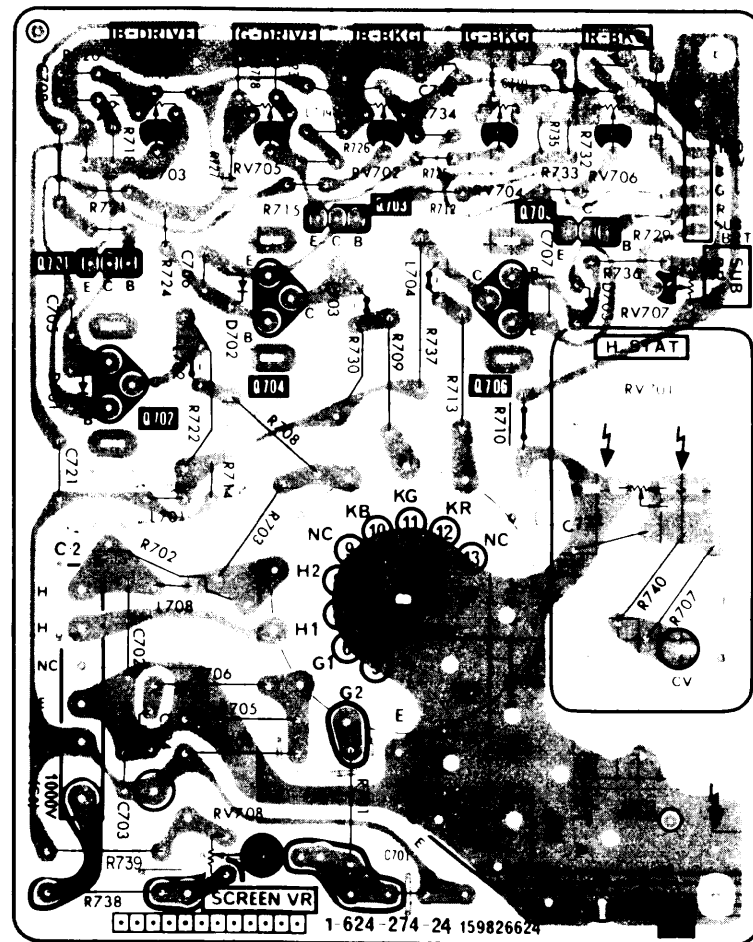
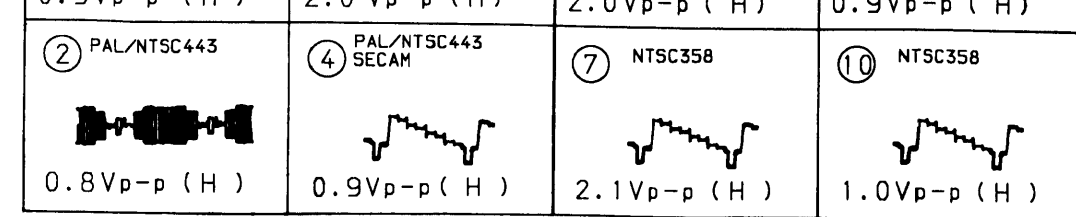
**H** [AUDIO IN]



**F** [POWER SUPPLY]







<b>CXA1213S</b>  (Top view)	<b>PCA84C640P/037</b> <b>PCA84C840P/054</b>  (Top view)	<b>μ PC7812H</b>  COMMON IN OUT	<b>2SC4927</b>  B C E	<b>RD10ES-B1</b> <b>RD10ES-B3</b> <b>RD13ES-B3</b> <b>RD39ES-B</b> <b>RD5.1ES-B2</b> <b>RD5.6ES-B2</b> <b>RD6.2ES-B2</b> <b>RD6.8ES-B3</b> <b>RD7.5ES-B1</b> <b>RD7.5ES-B3</b> <b>RD9.1ES-B1</b> <b>RD9.1ES-B2</b> <b>RD9.1ES-B3</b> <b>1SS119</b>
<b>CXA1214P</b>  (Top view)	<b>RC4558P</b> <b>ST24C02AB1</b> <b>TEA2031A</b>  (Top view)	<b>μ PC7893HF</b>  OUT GND IN	<b>2SK669</b>  B C E	
<b>KEY-C00SV-F</b>  LA7016  1 2 3 4 5 6 7 8	<b>RC78L09A</b>  Ground Input Output <b>STR-S5741</b>  1 9	<b>DTA114ES</b> <b>DTC114ES</b> <b>DTC124ES</b> <b>DTC143TS</b> <b>DTC144ES</b> <b>2SC3327-A</b>  E C B	<b>EGP20G</b> <b>EGP30G</b> <b>ERC06-15S</b> <b>HZT33-02</b> <b>RU-1P</b> <b>RU-3AM</b> <b>RU4A</b>  cathode anode <b>D5LC20U</b>  1 2 3	
<b>LM1036N</b>  (Top view)	 1 2 3 4 5 6 7 8 9 10 (Top view)	<b>2SA1175-HFE</b> <b>2SA1309A</b> <b>2SC2785-HFE</b> <b>2SC3311A</b>  letter side E C B	<b>ERD29-08J</b>  cathode anode <b>5P4M</b>  cathode anode anode pin	
<b>L78LR05D-MA</b>  MC14052BCP  (Top view)	<b>TDA2009A</b>  1 11 <b>TDA8444</b>  (Top view)	<b>2SA1220-A-P</b> <b>2SC2611</b> <b>2SC2688-LK</b>  letter side E C B	<b>ES1F</b> <b>EU2Z</b> <b>GP08D</b> <b>RGP10G</b> <b>R2K</b>  cathode anode <b>MC932</b>  1 2 3 1 2 3	<b>SEL1222R-C</b>  long short anode cathode
<b>MC14066BCP</b>  (Top view)	<b>MC14066BCP</b>  (Top view)	<b>2SC2958-L</b> <b>2SD774-34</b>  E C B	<b>RBV-406H</b>  1 2 3 1 2 3	
<b>MC33079P</b>  (Top view)	 1 2 3 4 5 6 7 8 (Top view)	<b>μ PC1498H</b>  B C E		