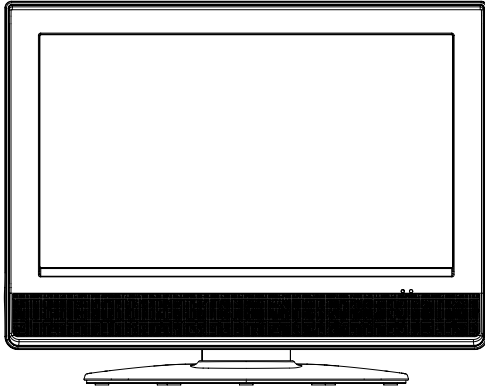


SHARP SERVICE MANUAL

#####



LCD COLOR TELEVISION

MODEL LC-26S2RU

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES


As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.

Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a  mark, the designated parts must be used.

4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing. Take enough care to deal with it.

5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the external exposure metal **[Note 2]** should be more than 1M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal
Earphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER

The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.

2. PART NO. and DESCRIPTION

You can find it in your SERVICE MANUAL.

IMPORTANT

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB.
(Please refer to figures.)



Caution:

- Pb free solder has a higher melting point than standard solder;
Typically the melting point is 86°F~104°F(30°C~40°C) higher.
Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
When soldering or unsoldering, completely remove all of the solder from the pins or solder area,
and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

GENERAL SPECIFICATIONS

G-1	TV System	LCD	LCD Size / Visual Size	26.0 inch / 660.53mmV	
			LCD Type	Color TFT LCD	
			Number of Pixels	1366(H) x 768(V)	
			View Range	88/88 degree	
			Left/Right Up/Down	88/88 degree	
			Color System		PAL / SECAM
	Speaker		2 Speaker		
		Position	Front		
		Size	2.2 x 5.0 inch		
		Impedance	4 ohm		
	Sound Output	MAX	10W + 10W		
		10%(Typical)	---		
	NTSC3.58+4.43 /PAL60Hz		Yes		
G-2	Tuning System	Broadcasting System		U.K., I.R., CCIR, FRENCH System B/G, D/K, I/I, L	
		Tuner and Receive CH	System	1Tuner	
			Destination	UK, I.R., CCIR Hyper+France CATV	
			CH Coverage	IreE2-E4, X-Z+2, S1-S10, E5-E12,S11-S41,E21-E69	
		Intermediate Frequency	Picture(FP) Sound(FS) FP-FS	BG / II / DK, L / L' (SECAM VL) 38.9 / 38.9 / 38.9 / 33.9MHz 33.4 / 32.9 / 32.4 / 40.4MHz 5.5 / 6.0 / 6.5 / 6.5MHz	
		Auto Tuning Method		ALL Band (Not C.C.I.R. CH Plan)	
		Preset CH		80	
		Stereo/Dual TV Sound		Nicam/A2 Dual	
		Tuner Sound Muting		Yes	
		G-3	Power	Power Source	AC
	DC			---	
Power Consumption				at AC at DC	135 W at AC 230 V 50 Hz --
	Stand by (at AC) Per Year				1 W at 230V 50Hz -- kWh/Year
Protector	Power Fuse				Yes
G-4	Regulation	Safety		GOST	
		Radiation		GOST	
		X-Radiation		---	
G-5	Temperature	Operation		0oC ~ +40oC	
		Storage		-20oC ~ +60oC	
G-6	Operating Humidity			Less than 80% RH	
G-7	OSD Language			English French Spanish German Italian Russian	
G-8	Clock and Timer	Sleep Timer	Max Time	120 Min	
			Step	10 Min	
		On/Off Timer	Program(On Timer / Off Timer)	-- Program	
		Wake Up Timer		No	
	Timer Back-up (at Power Off Mode)	more than	--	Min Sec	

GENERAL SPECIFICATIONS

G-9	Remote Control	Unit	RC-NB	
		Glow in Dark Remocon	No	
		Remocon Format	SHARP	
		Format	SHARP	
		Custom Code	10000 / 10001 / 01111	
		Power Source	Voltage(D.C) UM size x pcs	3V UM-3 x 2 pcs
		Total Keys		39 Keys
		Keys	Power	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			Mute	Yes
			Flash Back (Quick Videw)	Yes
			Input Select	Yes
			Volume Up	Yes
			Volume Down	Yes
			CH Up	Yes
			Ch Down	Yes
			Picture Size (Wide Mode)	Yes
			Audio 1/2	Yes
			Display / Status	Yes
			Sleep	Yes
			TEXT / MIX / TV	Yes
			Menu	Yes
			UP	Yes
			DOWN	Yes
	LEFT	Yes		
	RIGHT	Yes		
	Enter	Yes		
	Exit	Yes		
	F/T/B(Expand)	Yes		
	Reveal / Skip	Yes		
	HOLD/Freeze Frame	Yes		
	Subtitle	Yes		
	Sub Page	Yes		
	Red	Yes		
	Green	Yes		
	Yellow	Yes		
	Cyan	Yes		
	Freeze frame	No		

GENERAL SPECIFICATIONS

G-10	Features			
	Auto Set Up		No	
	Power On Memory		Yes	
	Auto Shut Off		Yes	
	Auto Search		Yes	
	Just Clock Function		No	
	Game Position		No	
	DNR		Yes	
			3D	
	Comb Filter		Yes	
			5 Lines	
	Picture Setting(TV)	Brightness , Contrast , Color		Yes
		Tint (NTSC Only)		Yes
		Sharpness		Yes
		DNR		Yes
		Color Temperature		Yes
		Blue Screen		Yes
	Picture Setting(PC)	BRIGHTNESS , CONTRAST		Yes
		HOR POSITION , VER POSITION		Yes
		PHASE , CLOCK		Yes
		AUTO ADJUST		No
		RED , GREEN , BLUE		Yes
		WXGA INPUT		Yes
		WVGA INPUT		Yes
	Audio	Nicam		Yes
		Tone Control (Bass/Treble/Balance)		Yes
		Surround		Yes
		BBE		No
		SRS WOW (SRS 3D/Focus/Tru Bass)		No
		Variable Audio Out		No
		Tuning	Auto Tuning	
	Manual Tuning			Yes
	CH Allocation			Yes
	Lock	Panel Lock		No
		Channel Lock		No
		Hotel Lock		No
	Screen Saver	Inversion		No
		Full White		No
		Screen Saver		No
		Static Image		No
	Black Side Panel		No	
	CH Label		No	
	T*Text			Yes
		Text type		Fastext
		Text Language		English , French, Swedish, Hungarian Finnish, Turkish, German, Dutch Portuguese, Spanish, Italian, Greek Polish, Russian, Bulgarian, Estonian, Lettish, Lithuanian Czech, Slovakian, Rumanian, Ukrainian
Wide Mode (AUTO/NORMAL/PANORAMA/FULL /CINEMA 16:9/ZOOM 14:9)		Yes		
Picture Scroll (Vertical Position)		Yes		
Backlight		Yes		
PFC(Power Factor circuit)		No		
Freeze frame		Yes		
HD-Ready		Yes		
PC Monitor Input			Yes	
	VGA (640x480)		Yes (60Hz)	
	VGA (720x400)		Yes (70Hz)	
	WVGA (848x480)		Yes (60Hz)	
	SVGA (800x600)		Yes (60Hz)	
	XGA (1024x768)		Yes (60Hz)	
	WXGA (1280x768)		Yes (60Hz)	
	WXGA (1280x720)		Yes (60Hz)	
	WXGA (1360x768)		Yes (60Hz)	
	SXGA (1280x1024)		No	

GENERAL SPECIFICATIONS

		HDMI Input	VGA (640 x 480)	Yes
			720 x 480i (4:3)	Yes (60Hz)
			720 x 480i (16:9)	Yes (60Hz)
			720 x 480p (4:3)	Yes (60Hz)
			720 x 480p (16:9)	Yes (60Hz)
			720 x 576i (4:3)	Yes (50Hz)
			720 x 576i (16:9)	Yes (50Hz)
			720 x 576p (4:3)	Yes (50Hz)
			720 x 576p (16:9)	Yes (50Hz)
			1280 x 720p	Yes (50/60Hz)
			1920 x 1080i	Yes (50/60Hz)
		Component Input		Yes
			720 x 480i (4:3)	Yes (60Hz)
			720 x 480i (16:9)	Yes (60Hz)
			720 x 480p (4:3)	Yes (60Hz)
			720 x 480p (16:9)	Yes (60Hz)
			720 x 576i (4:3)	Yes (50Hz)
			720 x 576i (16:9)	Yes (50Hz)
			720 x 576p (4:3)	Yes (50Hz)
			720 x 576p (16:9)	Yes (50Hz)
			1280 x 720p	Yes (50/60Hz)
			1920 x 1080i	Yes (50/60Hz)
G-12	Accessories	Owner's Manual	Language w/Guarantee Card	Russian No
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	-
			Terminal	-
		Loop Antenna (W/ Antenna Change Plug)		No
			Terminal	-
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		Yes
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Dew/AHC Caution Sheet		No
		Quick Set-up Sheet		No
		Battery		Yes
			UM size x pcs	UM-3 x 2 pcs
			OEM Brand	No
		AC Adapter		No
		AC Cord (for AC Adapter)		No
		AC Cord		Yes
		Cable Cramp		Yes
		Stand		Yes
		Stand Screw		Yes
		Hexagon Wrench		Yes
		AV Cord (2Pin-1Pin)		No
		HDMI-DVI Cable		No
		Registration Card		No
		300 ohm to 75 ohm Antenna Adapter		No

GENERAL SPECIFICATIONS

G-13	Interface	Switch	Power (Push)	Yes	
			System Select	No	
			Main Power SW	No	
			Channel Up/Menu Up	Yes	
			Channel Down/Menu Down	Yes	
			Volume Up/Menu >	Yes	
			Volume Down/Menu <	Yes	
			Input Select	Yes	
			Menu	No	
			Indicator	Power/Stand-by	Yes(GREEN / RED)
		On Timer		No	
		Terminals	Rear	Video Input 1	RCA x 1
				Audio Input 1	Component Audio Input Alternative
				S- Input 1	No
				Video Output	No
				Audio Output	No
				Other Terminal	No
				Euro Scart (21Pin)	2Scart
				Component In	Yes
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				PC Monitor Input (D-Sub)	Yes
			Audio Input	RCA x 2 (L/MONO, R)	
			HDMI Input	Yes	
			Audio Input (HDMI/DVI In use)	PC Monitor Audio Input Alternative	
			Sub Woofer Output	No	
			Diversity	No	
			Ext Speaker	No	
			DC Jack 12V(Center +)	No	
			VHF/UHF Antenna Input	DIN Type	
			AC Inlet	Yes	
			Side	Video Input 2	No
		Audio Input 2		No	
		S- Input 2		No	
Other Terminal	No				
G-14	Set Size	Approx. W x D x H (mm)	684.0 x 283.0 x 565.0		
		w/o Stand,Handle Approx. W x D x H (mm)	684.0 x 116.5 x 506.0		
G-15	Weight	Net Approx.	12.9kg (28.4lbs)		
		Net w/o Stand,Handle Approx.	11.2kg (24.7lbs)		
		Gross Approx.	15.6kg (34.4lbs)		
G-16	Carton	Master Carton		No	
			Content	---- Sets	
			Material	-- /--	
			Dimensions W x D x H(mm)	-- x -- x --	
			Description of Origin	No	
		Gift Box		Yes	
			Material	Double/Brown	
			Dimensions W x D x H(mm)	781 x 255 x 622	
			Design	As per Buyer's	
			Description of Origin	Yes	
		Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces	
			Height (cm)	32	
Container Stuffing	405 Sets/40' container				
G-17	Material	Cabinet	Cabinet Front	PS 94V0 NON-DECABROM	
			Cabinet Rear	PS 94V0 NON-DECABROM	
		PCB	Non-Halogen	No	
			Eyelet	Yes	
G-18	Environment	Environmental standard requirement	Green procurement of SHARP		
		Pb- Free	Phase3(PHASE3A)		
		Measures for Whisker	Yes		
		WEEE	No		

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

1-1: BACK CABINET (Refer to Fig. 1-1)

1. Remove the 19 screws ①.
2. Remove the Back Cabinet in the direction of arrow.

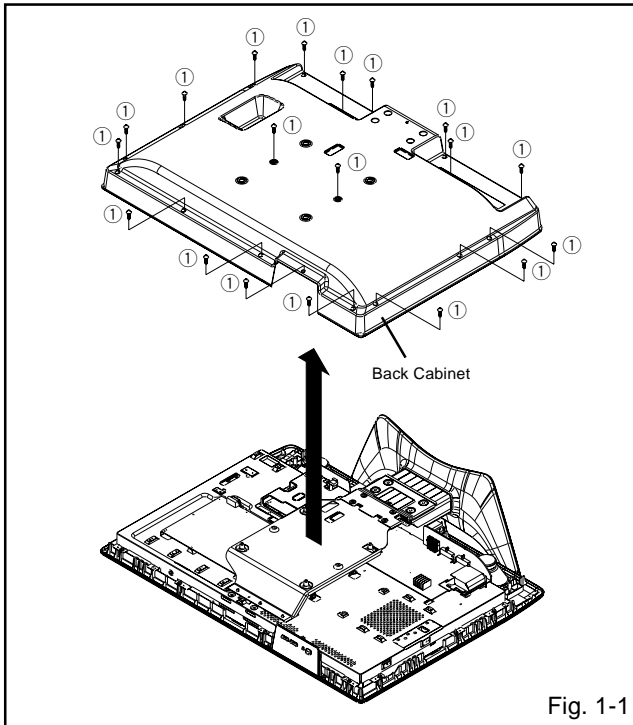


Fig. 1-1

1-2: STAND ASS'Y/ANGLE BACK 1/2/PLATE JACK 1/2 (Refer to Fig. 1-2)

1. Remove the 4 screws ①.
2. Remove the Stand Ass'y in the direction of arrow (A).
3. Remove the 4 screws ②.
4. Remove the 6 screws ③.
5. Remove the Angle Back 1/2 in the direction of arrow (B).
6. Remove the 4 screws ④.
7. Remove the Plate Jack 2 in the direction of arrow (C).
8. Remove the 7 screws ⑤.
9. Remove the Plate Jack 1 and Shield Jack in the direction of arrow (D).

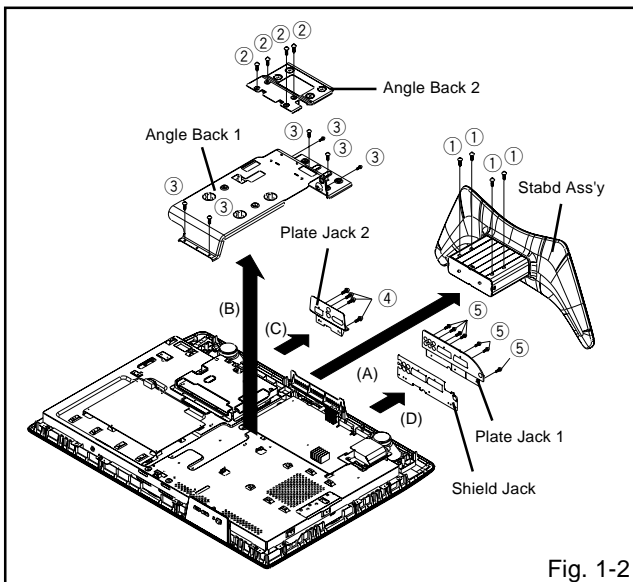


Fig. 1-2

1-3: PCB ASS'Y (Refer to Fig. 1-3)

1. Disconnect the following connectors: (CP506, CP507, CP508, CP510, CP511, CP512, CP515).
2. Remove the 9 screws ①.
3. Remove the Holder AC-Inlet and Power PCB in the direction of arrow (A).
4. Disconnect the following connectors: (CP802, CP803, CP2200, CP3201, CP3602, CP7204).
5. Remove the 10 screws ②.
6. Remove the Shield Scaler and Scaler PCB in the direction of arrow (B).
7. Disconnect the following connectors: (CP301, CP303, CP4202).
8. Remove the 7 screws ③.
9. Remove the AV PCB and Shield Tuner in the direction of arrow (C).
10. Remove the 2 screws ④.
11. Remove the Remocon PCB in the direction of arrow (D).
12. Remove the 4 screws ⑤.
13. Remove the Filter PCB in the direction of arrow (E).
14. Remove the 7 screws ⑥.
15. Remove the Operation PCB, Operation 2 PCB and Plate Button in the direction of arrow (F).

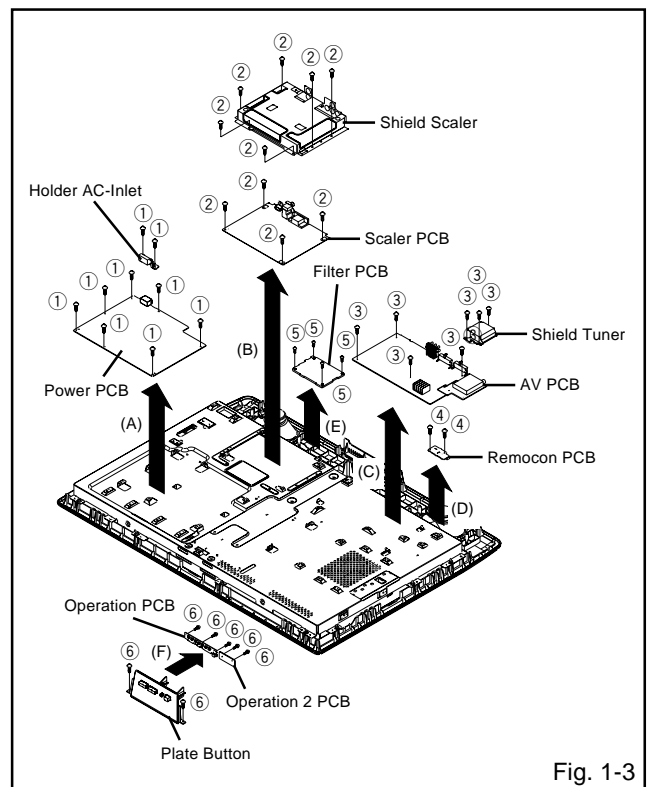
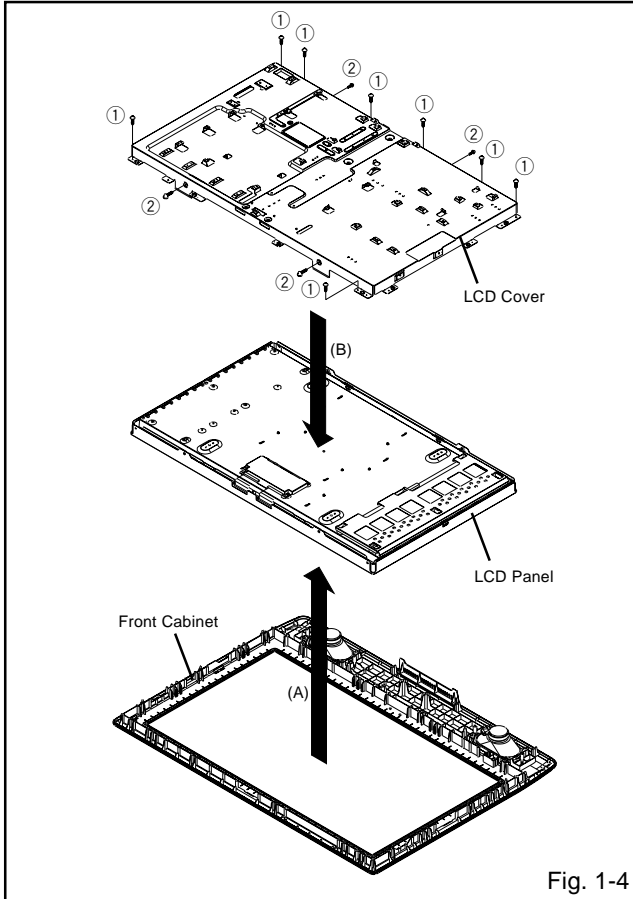


Fig. 1-3

DISASSEMBLY INSTRUCTIONS

1-4: LCD COVER/LCD PANEL (Refer to Fig. 1-4)

1. Remove the 8 screws ①.
2. Remove the LCD Cover in the direction of arrow (A).
3. Remove the 4 screws ②.
4. Remove the LCD Panel in the direction of arrow (B).



DISASSEMBLY INSTRUCTIONS

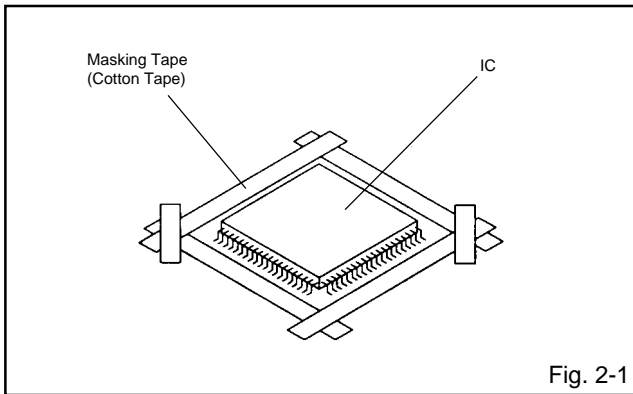
2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 2-1.)

NOTE

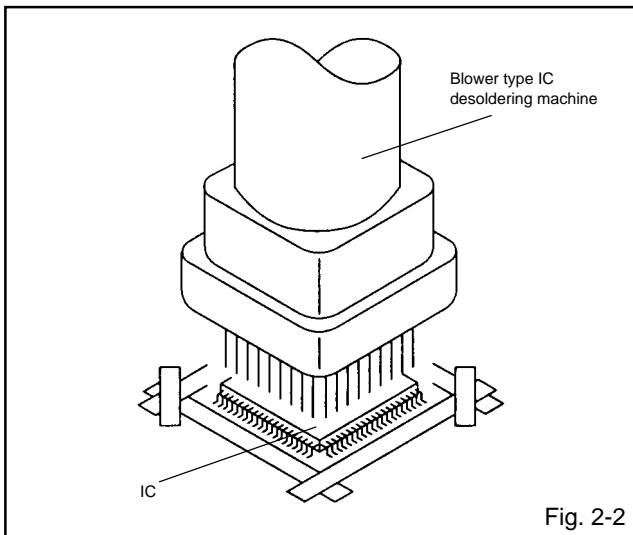
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 2-2.)

NOTE

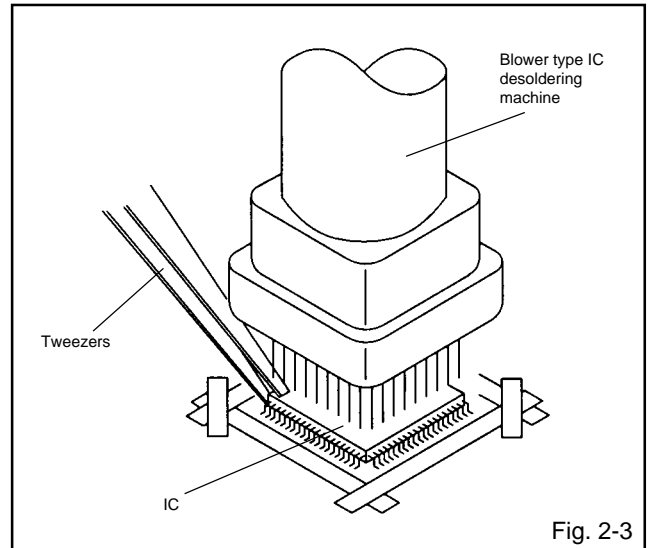
Do not rotate or move the IC back and forth, until IC can move back and forth easily after desoldering the leads completely.



3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 2-3.)

NOTE

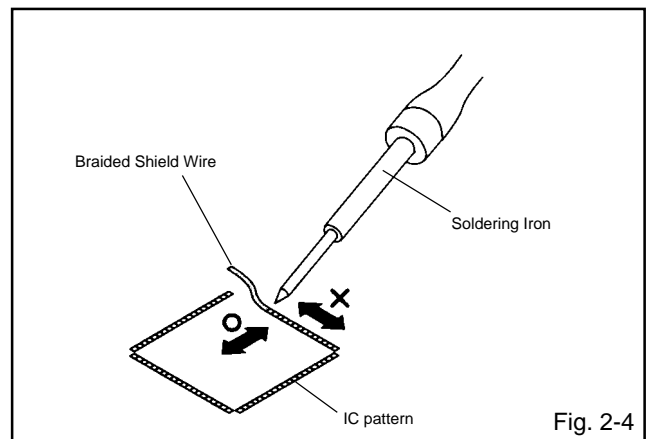
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



4. Peel off the Masking Tape.
5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 2-4.)

NOTE

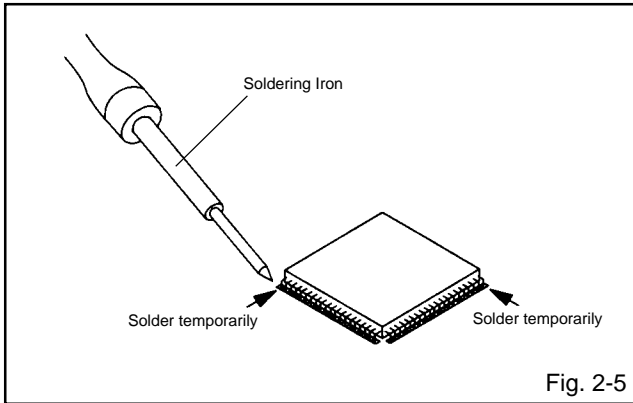
Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.



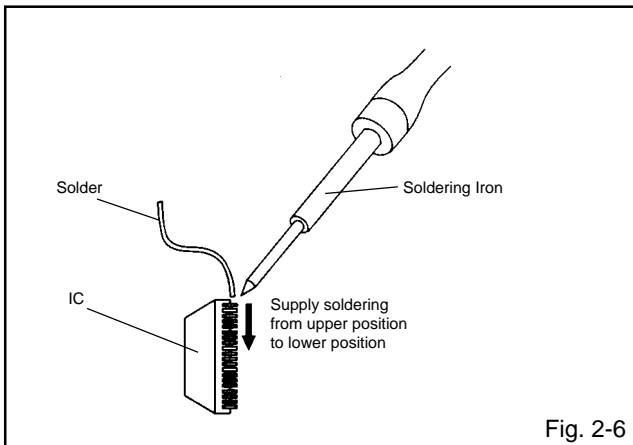
DISASSEMBLY INSTRUCTIONS

INSTALLATION

1. Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. (Refer to Fig. 2-5.)



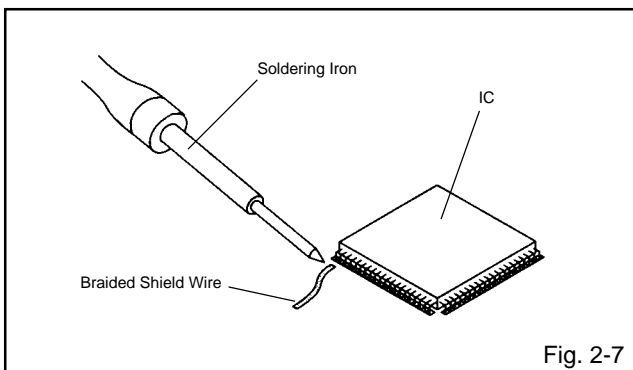
2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 2-6.)



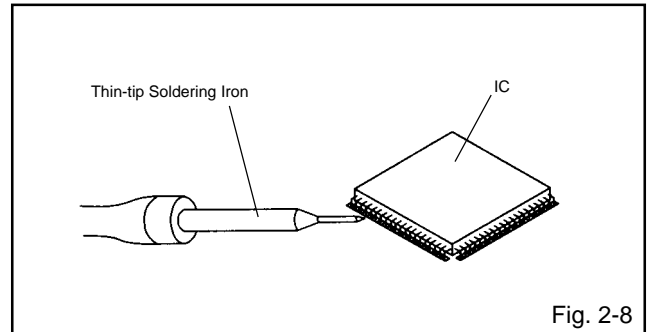
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 2-7.)

NOTE

Do not absorb the solder to excess.



4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. (Refer to Fig. 2-8.)



5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass. Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

SERVICE MODE LIST

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than a the standard time in the appropriate condition. (See below chart.)

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Releasing of V-CHIP PASSWORD.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
TV mode	VOL. DOWN (Minimum)	2	2 sec.	Check of the SUM DATA and MICON VERSION on the screen. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
TV mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Refer to the "PREVENTIVE CHECKS AND SERVICE INTERVALS". (CONFIRMATION OF HOURS USED). Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

WHEN REPLACING EEPROM (MEMORY) IC

CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS AND MICON VERSION

Initial total of MEMORY IC, POWER ON total hours and MICON VERSION can be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".

Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(8)** on the remote control for more than 2 seconds.
4. After the confirmation of each check sum, turn off the power.

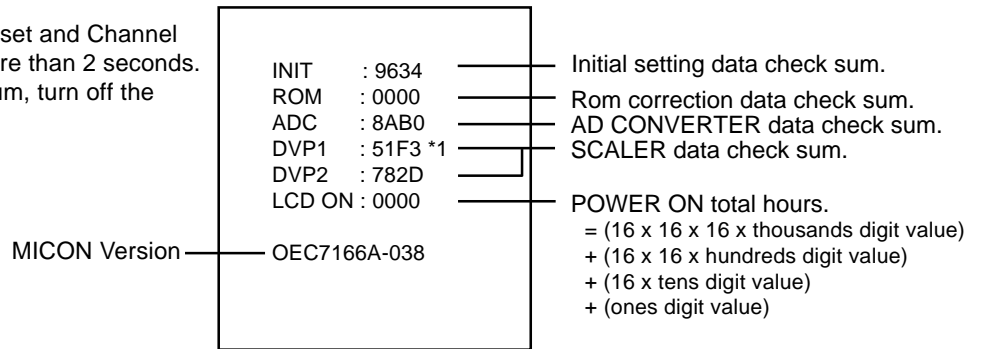


FIG. 1

CONFIRMATION OF INITIAL DATA

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

1. Turn on the POWER, and set to the TV mode.
2. Set the VOLUME to minimum.
3. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 2.

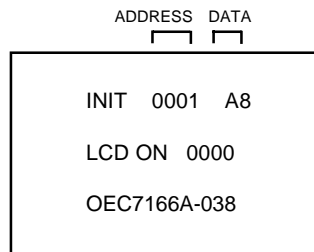


FIG. 2

4. ADDRESS is now selected and should "blink". Using the UP/DOWN button on the remote, step through the ADDRESS until Press RIGHT/LEFT button to select DATA. When DATA is selected, it will "blink".
5. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
6. Pressing RIGHT/LEFT button will take you back to ADDRESS for further selection if necessary.
7. Repeat steps 4 to 6 until all data has been checked.
8. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

After the data input, set to the initializing of shipping.

9. Turn POWER on.
10. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
11. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

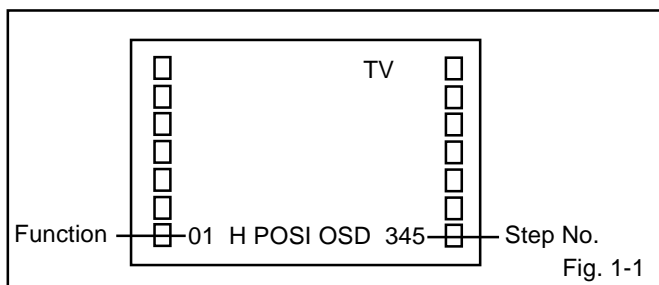
- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease (**YG6260M**) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor).


Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

On-Screen Display Adjustment

1. Set the VOLUME to minimum.
2. Press the VOL. DOWN button on the set and the channel button (9) on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in Fig. 1-1.






3. Use the Channel UP/DOWN button or Channel button (0-9) on the remote control to select the options shown in Fig. 1-2.
4. Press the  (INPUT) button on the remote control to end the adjustments.

NO.	FUNCTION	NO.	FUNCTION
01	H POSI OSD	23	V POSI 50Hz
02	V POSI OSD	24	V POSI 60Hz
03	R DRIVE(N)	25	BAK LIGHT CENT
04	R CUT OFF(N)	26	BAK LIGHT MAX
05	G DRIVE(N)	27	BAK LIGHT MIN
06	G CUT OFF(N)	28	BRIGHT CENT
07	B DRIVE(N)	29	BRIGHT MAX
08	B CUT OFF(N)	30	BRIGHT MIN
09	R DRIVE(C)	31	TINT
10	R CUT OFF(C)	35	CONTRAST CENT
11	G DRIVE(C)	36	CONTRAST MAX
12	G CUT OFF(C)	37	CONTRAST MIN
13	B DRIVE(C)	38	COLOR CENT
14	B CUT OFF(C)	39	COLOR MAX
15	R DRIVE(W)	40	COLOR MIN
16	R CUT OFF(W)	41	H POSI TEXT
17	G DRIVE(W)	42	V POSI TEXT
18	G CUT OFF(W)	43	CONTRAST 35
19	B DRIVE(W)	44	BRIGHT (3F54)
20	B CUT OFF(W)	45	CONTRAST (3F55)
21	H POSI 50Hz	46	SRC TOP
22	H POSI 60Hz	47	DFAE VIM GVT

Fig. 1-2


2. BASIC ADJUSTMENTS

2-1: CONTRAST

1. Receive the monoscope pattern. (RF Input)
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of Fig. 1-1 and press the channel button (43) on the remote control to select "CONTRAST 35".
4. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "133".
5. Check if the picture is normal.
6. Receive the monoscope pattern. (VIDEO Input)
7. Press the  (INPUT) button on the remote control to set to the AV mode.
8. Using the remote control, set the brightness and contrast to normal position.
9. Activate the adjustment mode display of Fig. 2-1 and press the channel button (43) on the remote control to select "CONTRAST 35".
10. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "133".
11. Check if the picture is normal.
12. Playback the DVD(480i) disc. (COMPONENT Input)
13. Press the  (INPUT) button on the remote control to set to the YUV mode.
14. Using the remote control, set the brightness and contrast to normal position.
15. Activate the adjustment mode display of Fig. 2-1 and press the channel button (43) on the remote control to select "CONTRAST MAX".
16. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "148".
17. Playback the DVD(480i) disc. (HDMI Input)
18. Press the  (INPUT) button on the remote control to set to the HDMI mode.
19. Using the remote control, set the brightness and contrast to normal position.
20. Activate the adjustment mode display of Fig. 1-1 and press the channel button (43) on the remote control to select "CONTRAST 35".
21. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "141".
22. Check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-2: WHITE BALANCE

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Using the remote control, set the brightness and contrast to normal position.
4. Press the  (INPUT) button on the remote control to set to the AV mode.
5. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(03)** on the remote control to select "R DRIVE(N)".
6. Press the CH. UP/DOWN button on the remote control to select the "R CUT OFF(N)", "B DRIVE(N)", "B CUT OFF(N)", "R DRIVE(C)", "R CUT OFF(C)", "B DRIVE(C)", "B CUT OFF(C)", "R DRIVE(W)", "R CUT OFF(W)", "B DRIVE(W)" or "B CUT OFF(W)".
7. Adjust the LEFT/RIGHT button on the remote control to whiten the R CUT OFF(N), B DRIVE(N), B CUT OFF(N), R DRIVE(C), R CUT OFF(C), B DRIVE(C), B CUT OFF(C), R DRIVE(W), R CUT OFF(W), B DRIVE(W) or B CUT OFF(W) at each step tone sections equally.
8. Perform the above adjustments 6 and 7 until the white achieved.

ELECTRICAL ADJUSTMENTS

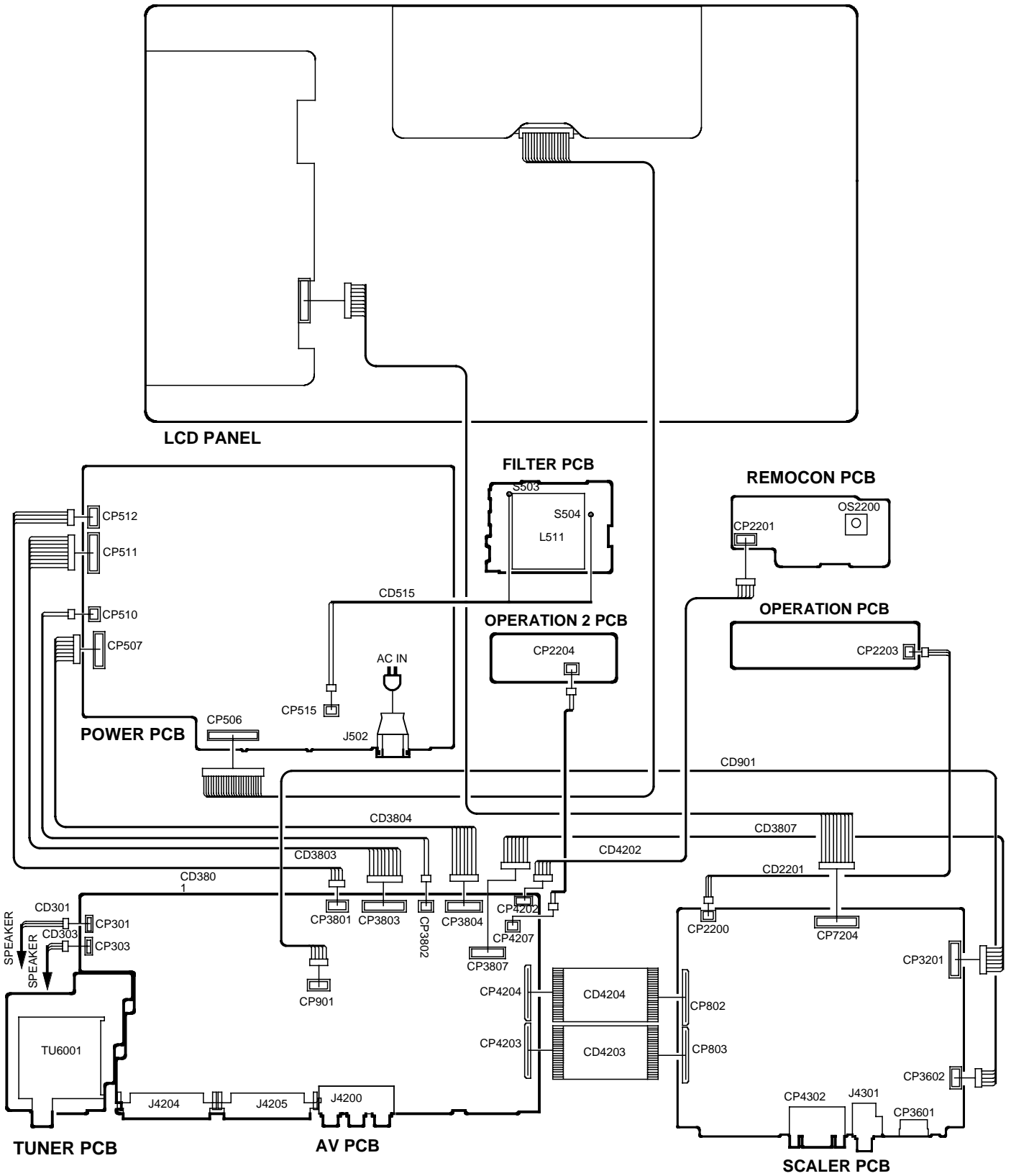
2-3: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of each adjustment item is set correctly referring below. (TV/AV/S-VIDEO/RGB/YUV/HD-MI/VGA)

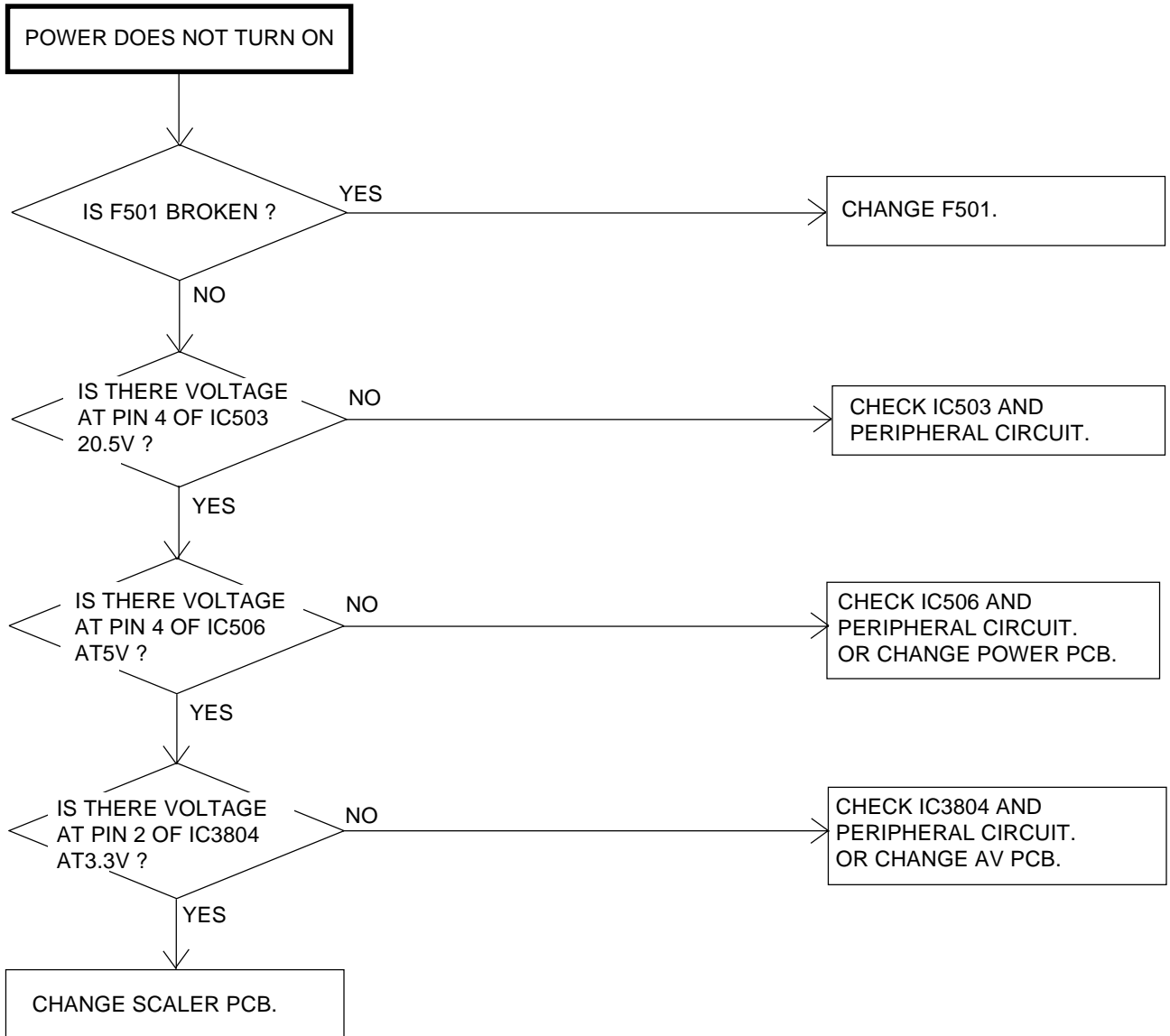
NO.	FUNCTION	TV		AV			S-VIDEO	RGB	YUV								HD-MI								VGA	
		PAL	SECAM	PAL	NTSC	SECAM			60Hz				50Hz				60Hz				50Hz					
									480i	480p	720p	1080i	576i	576p	720p	1080i	480i	480p	720p	1080i	576i	576p	720p	1080i		
		Step No.																								
1	H POSI OSD	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346	346
2	V POSI OSD	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
3	R DRIVE (N)	137	137	137	137	137	137	137	139	137	137	137	138	137	138	137	138	138	138	138	138	138	138	138	138	138
4	R CUT OFF (N)	128	128	128	128	128	128	127	126	125	123	123	126	125	123	124	126	126	126	126	126	126	126	126	126	---
5	G DRIVE (N)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
6	G CUT OFF (N)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	---
7	B DRIVE (N)	102	102	102	102	102	102	105	102	102	101	102	101	103	102	101	103	103	103	103	103	103	103	103	103	113
8	B CUT OFF (N)	130	130	130	130	130	130	130	129	128	127	128	129	127	129	129	129	129	129	129	129	129	129	129	129	---
9	R DRIVE (C)	133	133	133	133	133	133	135	137	135	136	138	135	138	134	136	134	134	134	134	134	134	134	134	134	---
10	R CUT OFF (C)	126	126	126	126	126	126	125	123	123	122	120	125	123	125	123	126	126	126	126	126	126	126	126	126	---
11	G DRIVE (C)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	---
12	G CUT OFF (C)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	---
13	B DRIVE (C)	113	113	113	113	113	113	118	115	114	113	115	114	114	113	113	113	113	113	113	113	113	113	113	113	---
14	B CUT OFF (C)	128	128	128	128	128	128	128	127	126	125	126	127	126	126	126	128	128	128	128	128	128	128	128	128	---
15	R DRIVE (W)	145	145	145	145	145	145	145	145	143	147	143	142	142	142	143	144	144	144	144	144	144	144	144	144	---
16	R CUT OFF (W)	124	124	124	124	124	124	126	124	124	122	124	125	125	123	123	126	126	126	126	126	126	126	126	126	---
17	G DRIVE (W)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	---
18	G CUT OFF (W)	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	---
19	B DRIVE (W)	93	93	93	93	93	93	93	94	94	94	93	94	94	93	94	93	93	93	93	93	93	93	93	93	---
20	B CUT OFF (W)	129	129	129	129	129	129	130	128	127	126	129	129	127	128	127	129	129	129	129	129	129	129	129	129	---
21	H POSI 50Hz	316	316	316	316	316	316	316	---	---	---	---	312	148	320	270	---	---	---	---	298	148	284	230	---	---
22	H POSI 60Hz	280	280	280	280	280	280	284	280	138	320	270	---	---	---	---	270	136	284	230	---	---	---	---	42	
23	V POSI 50Hz	24	24	24	24	24	24	20	---	---	---	---	24	24	35	16	---	---	---	---	24	24	35	19	---	---
24	V POSI 60Hz	24	24	24	24	24	24	34	24	24	35	16	---	---	---	---	24	24	35	19	---	---	---	---	24	
25	BAK LIGHT CENT	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
26	BAK LIGHT MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
27	BAK LIGHT MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	BRIGHT CENT	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
29	BRIGHT MAX	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156
30	BRIGHT MIN	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
31	TINT	125	130	125	128	125	125	130	128	130	130	130	127	125	125	125	123	123	123	123	125	125	125	125	125	---
35	CONTRAST CENT	92	92	92	90	92	92	77	101	91	91	71	101	91	92	93	96	96	96	96	96	96	96	96	96	90
36	CONTRAST MAX	149	149	149	147	149	149	128	165	149	148	147	165	153	148	149	156	156	156	156	156	156	156	156	156	150
37	CONTRAST MIN	70	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
38	COLOR CENT	97	72	75	75	64	80	149	90	90	90	90	90	90	90	90	67	67	67	67	67	67	67	67	---	
39	COLOR MAX	127	127	127	127	127	127	206	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	---
40	COLOR MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	---
41	H POSI TEXT	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	---
42	V POSI TEXT	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	---
43	CONTRAST 35	133	133	133	131	133	133	114	148	125	128	128	129	125	127	127	141	141	141	141	141	141	141	141	141	120
44	BRIGHT (3F54)	129	129	129	129	129	129	129	129	125	128	128	129	125	127	127	111	111	111	111	111	111	111	111	111	128
45	CONTRAST (3F55)	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	113	113	113	113	113	113	113	113	113	128
46	SRC TOP	27	27	27	20	27	27	20	20	20	20	20	27	27	27	27	0	0	0	0	0	0	0	0	0	0
47	DFA VIM GVT	0	0	0	0	0	0	0	0	44	30	0	0	53	30	0	20	43	30	0	26	52	35	0	28	

ELECTRICAL ADJUSTMENTS

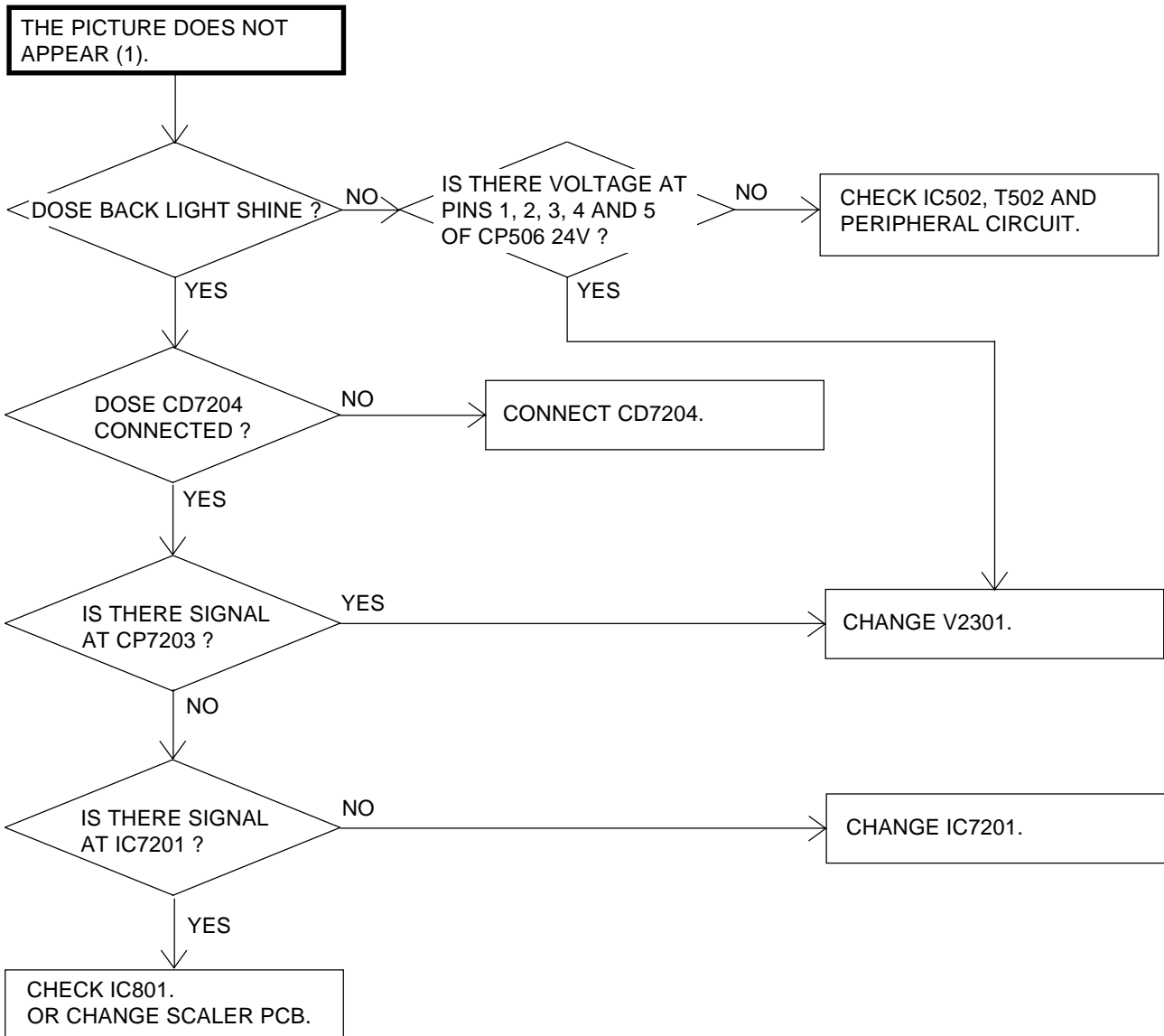
3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



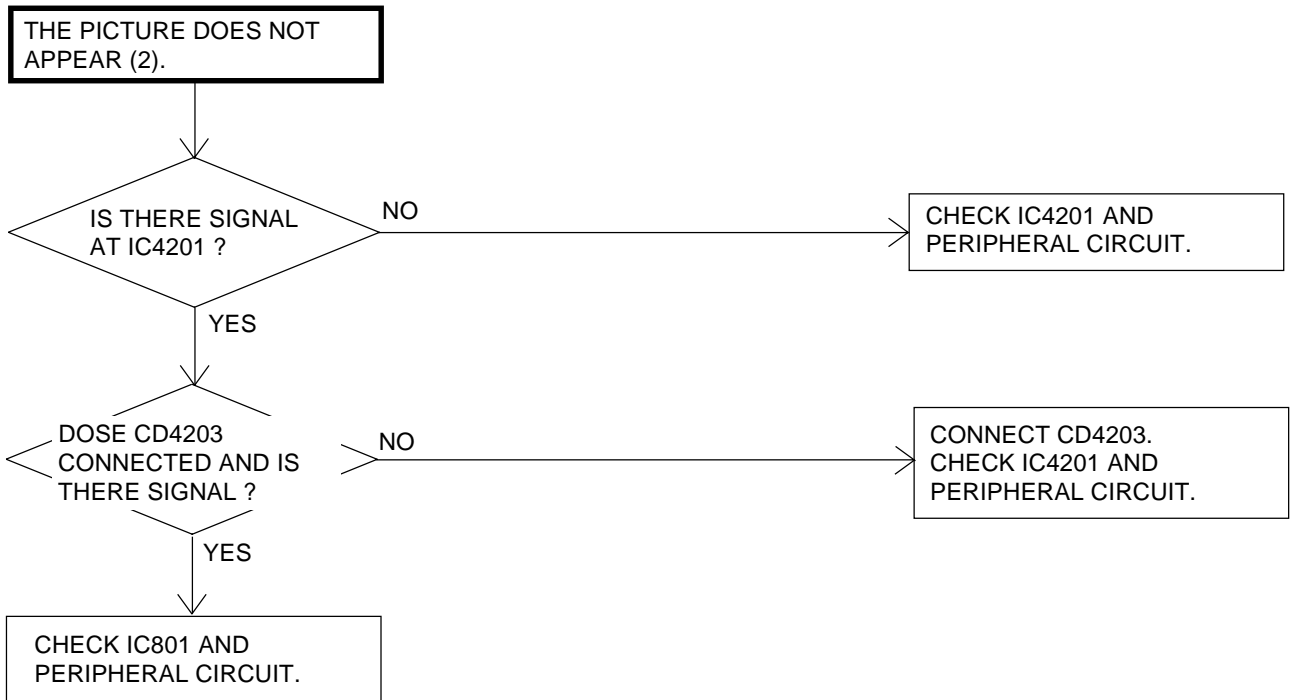
TROUBLESHOOTING GUIDE



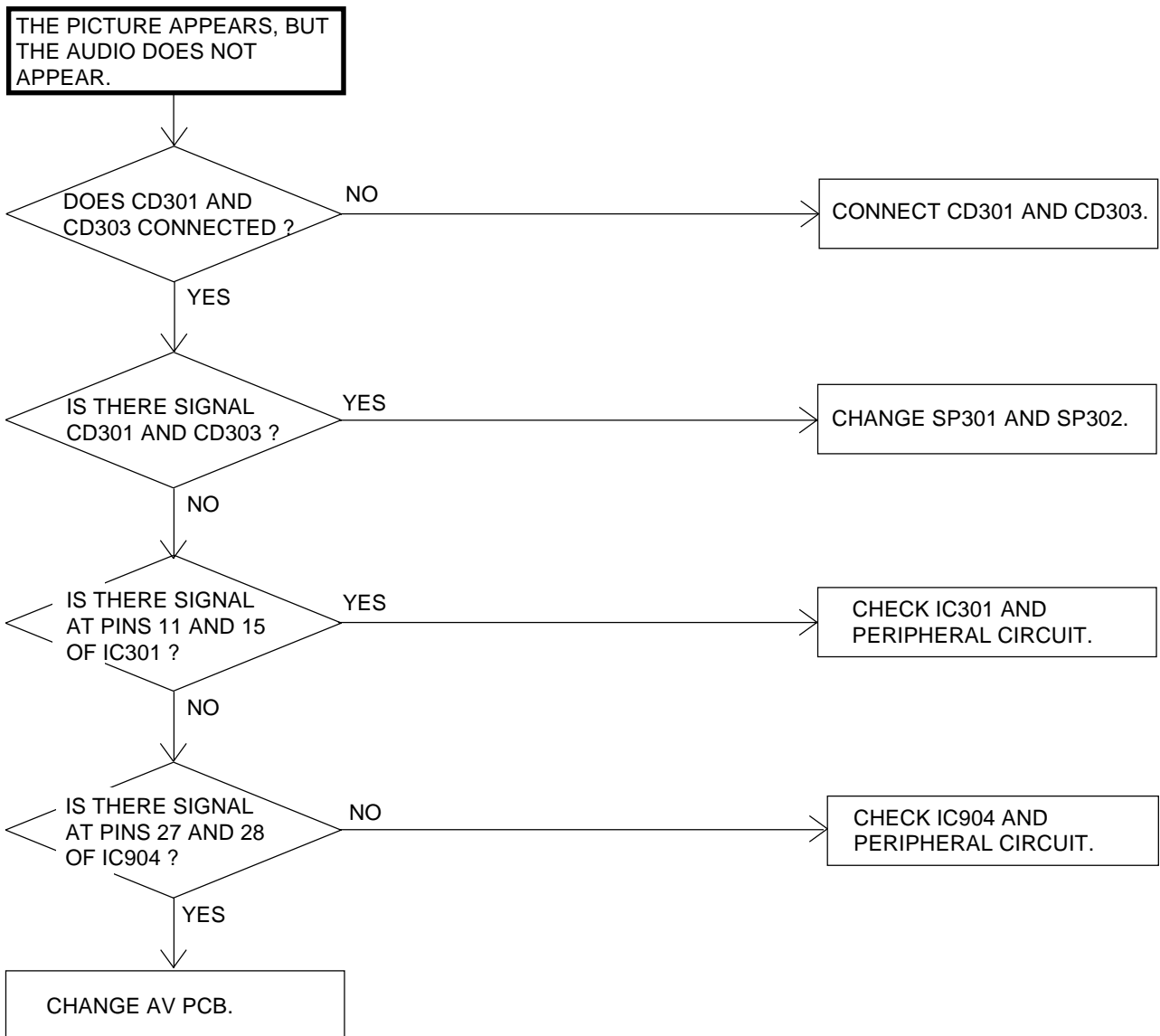
TROUBLESHOOTING GUIDE



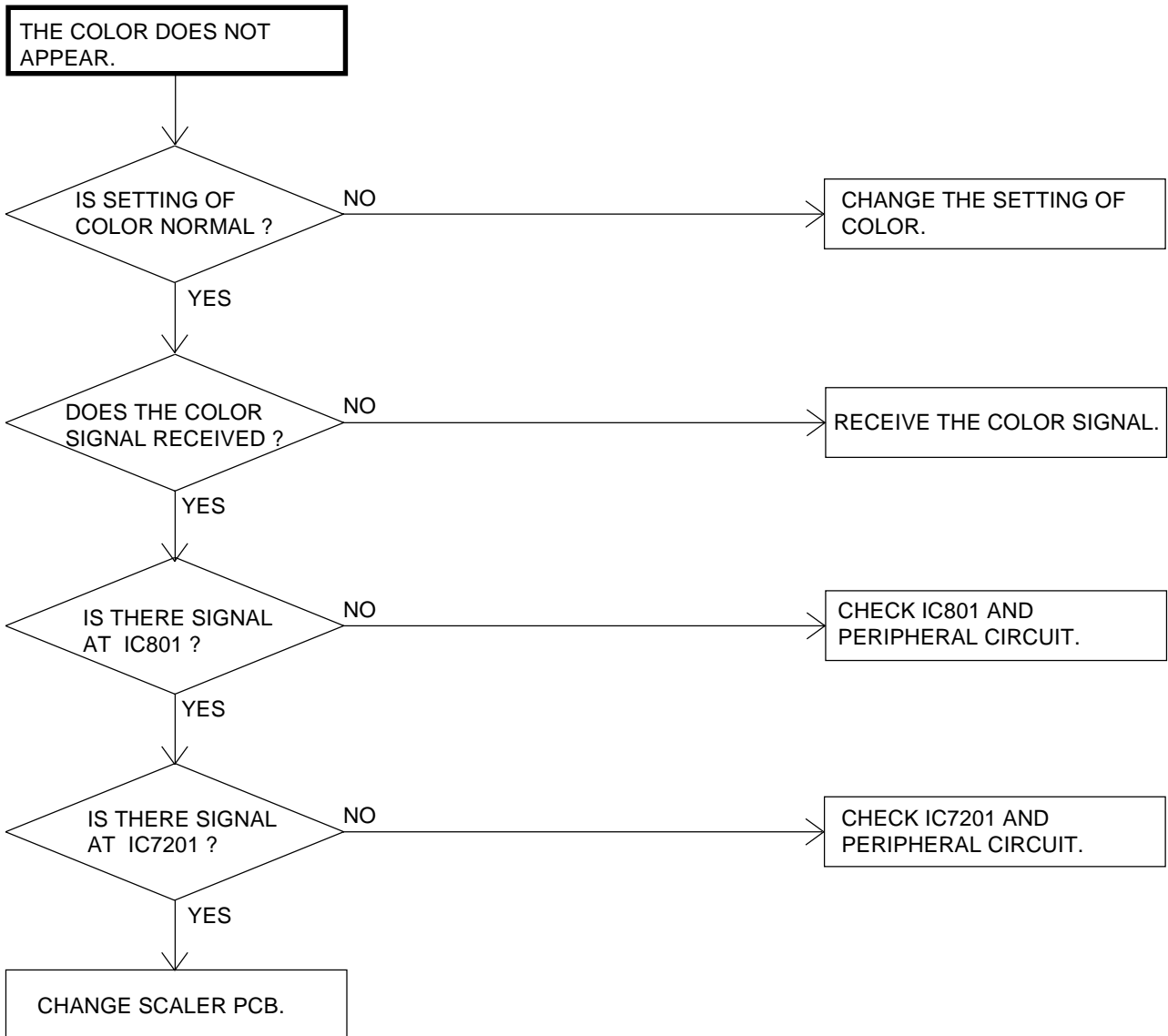
TROUBLESHOOTING GUIDE



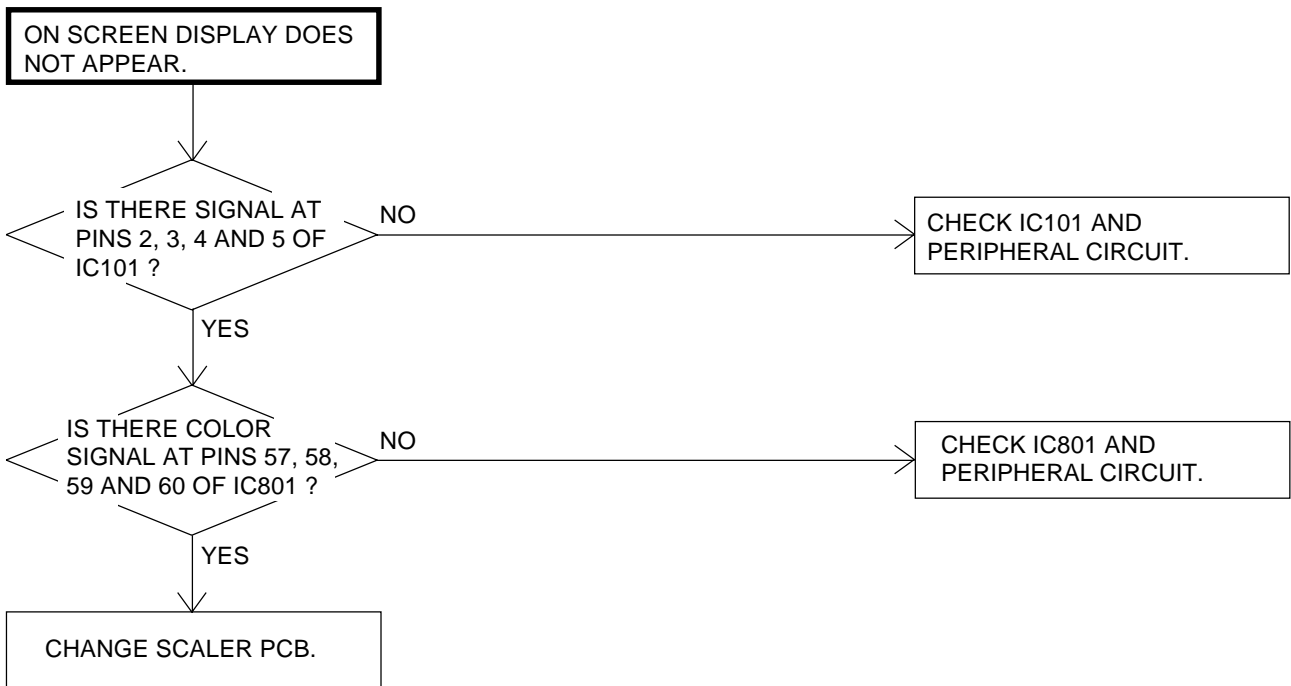
TROUBLESHOOTING GUIDE



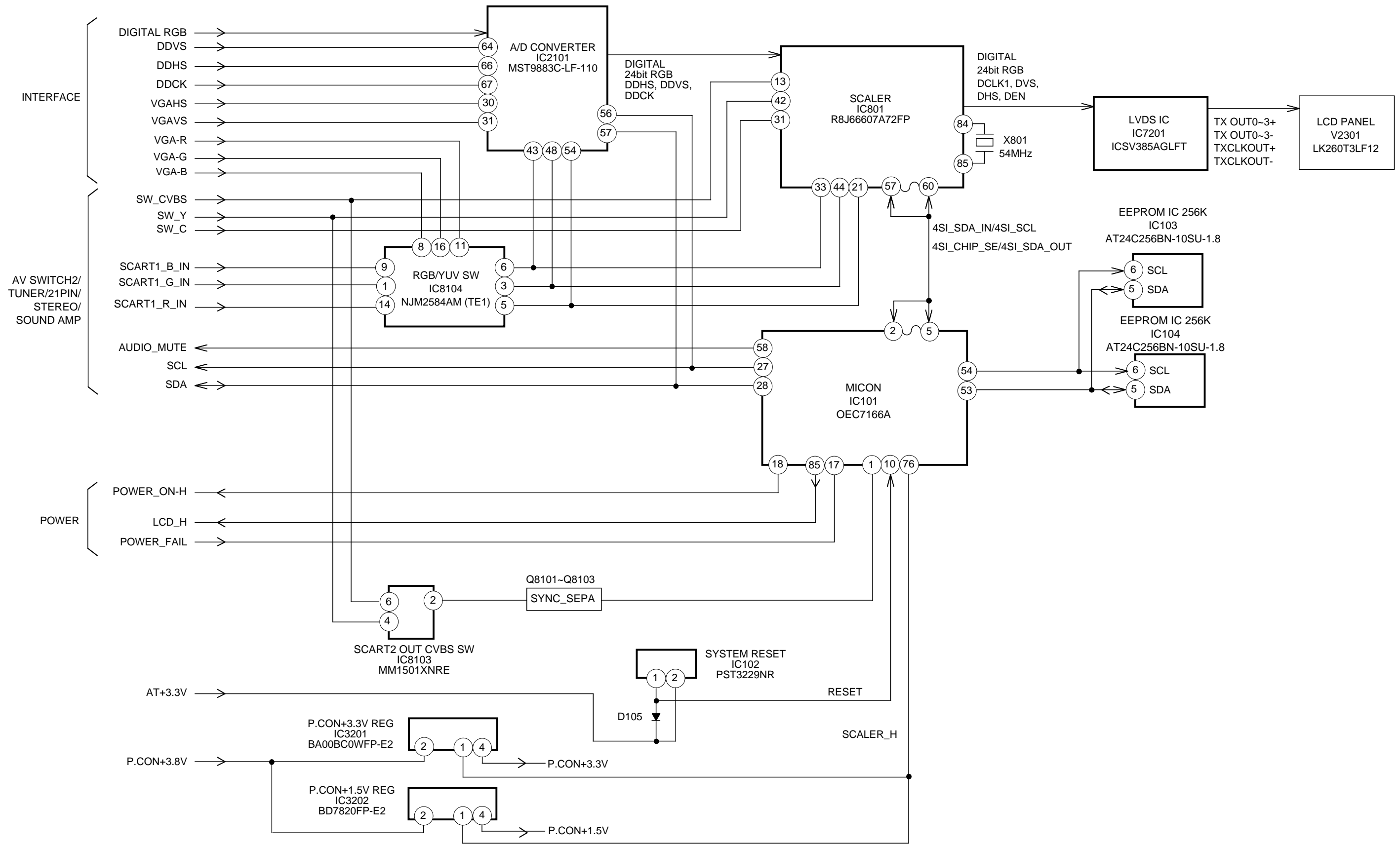
TROUBLESHOOTING GUIDE



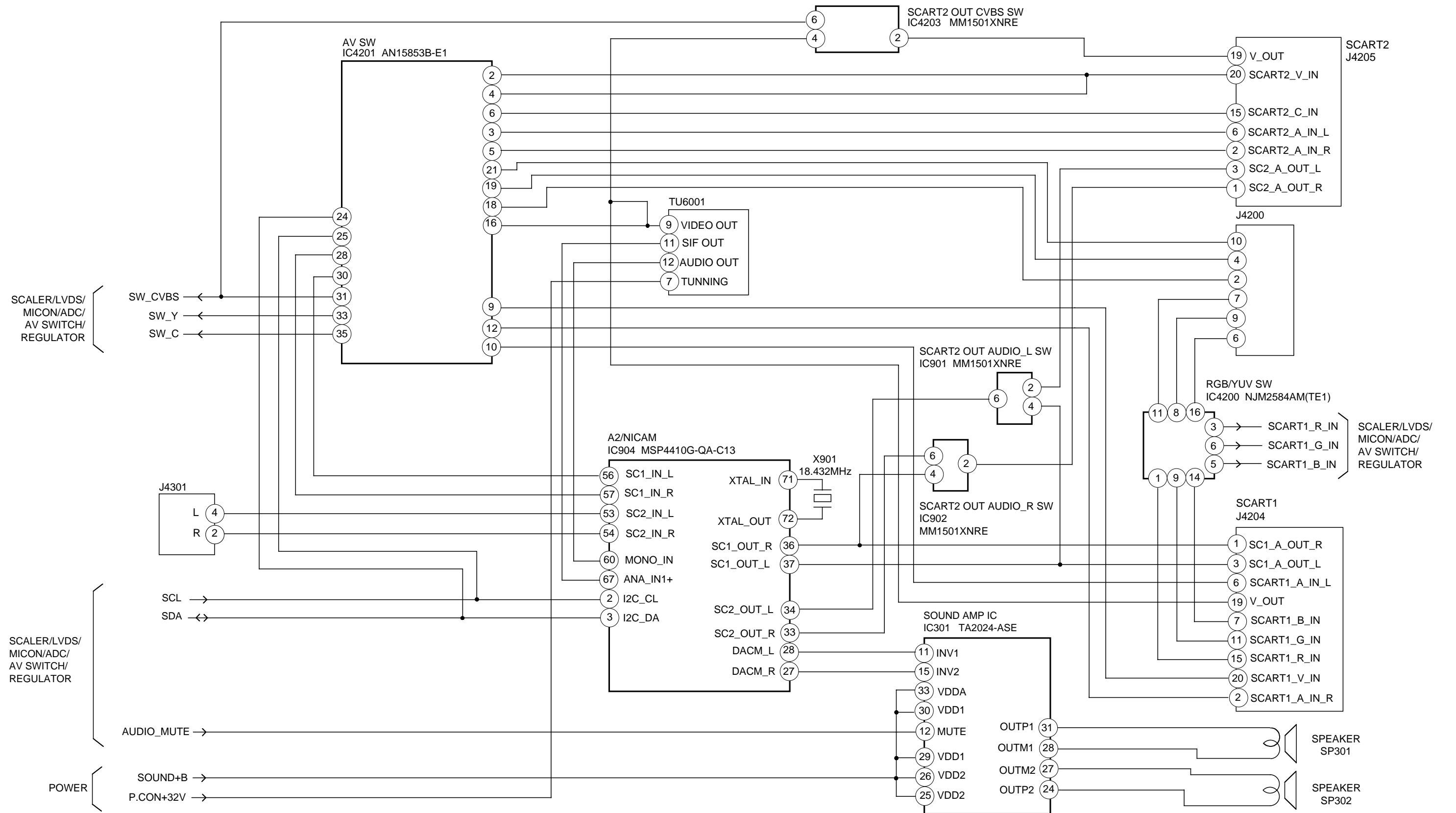
TROUBLESHOOTING GUIDE



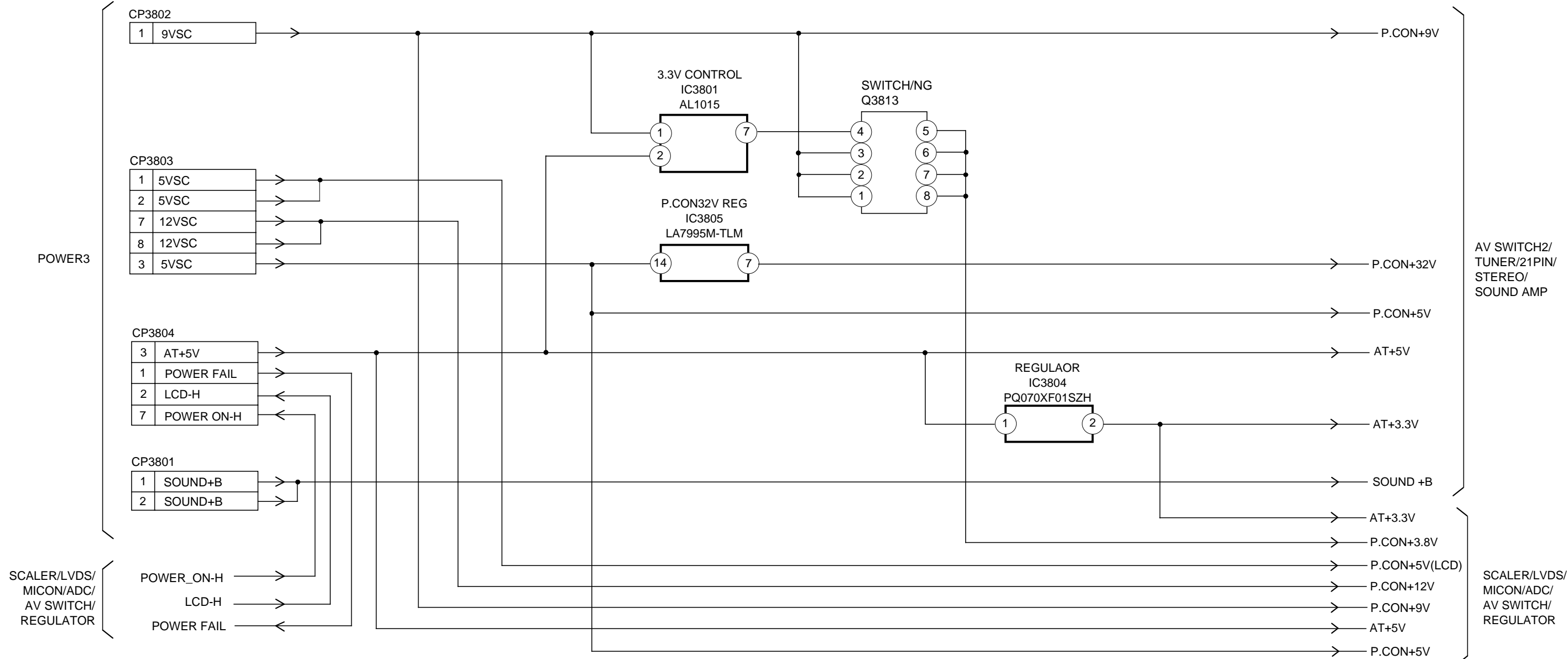
SCALER/LVDS/MICON/ADC/AV SWITCH/REGULATOR BLOCK DIAGRAM



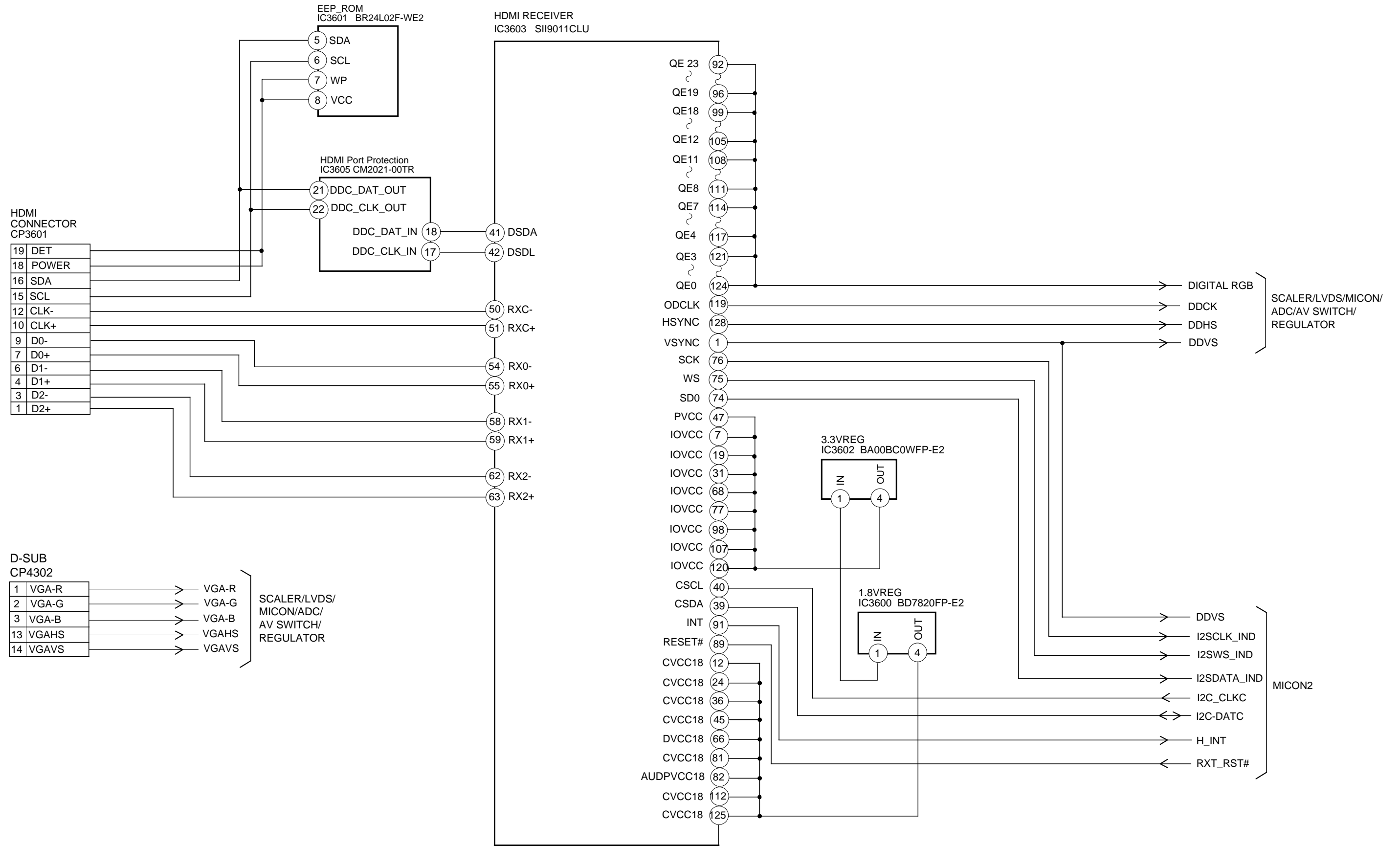
AV SWITCH 2/TUNER/21PIN/STEREO/SOUND AMP BLOCK DIAGRAM



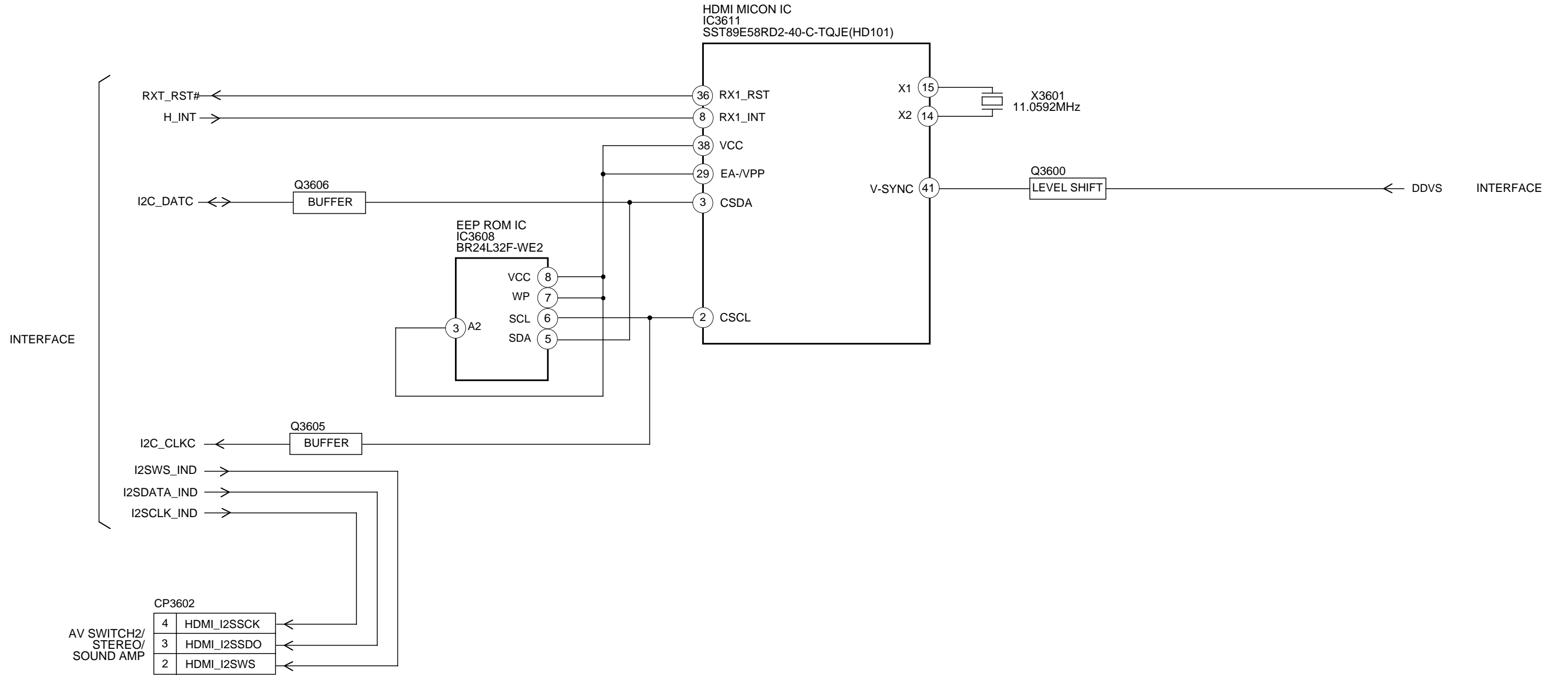
POWER BLOCK DIAGRAM



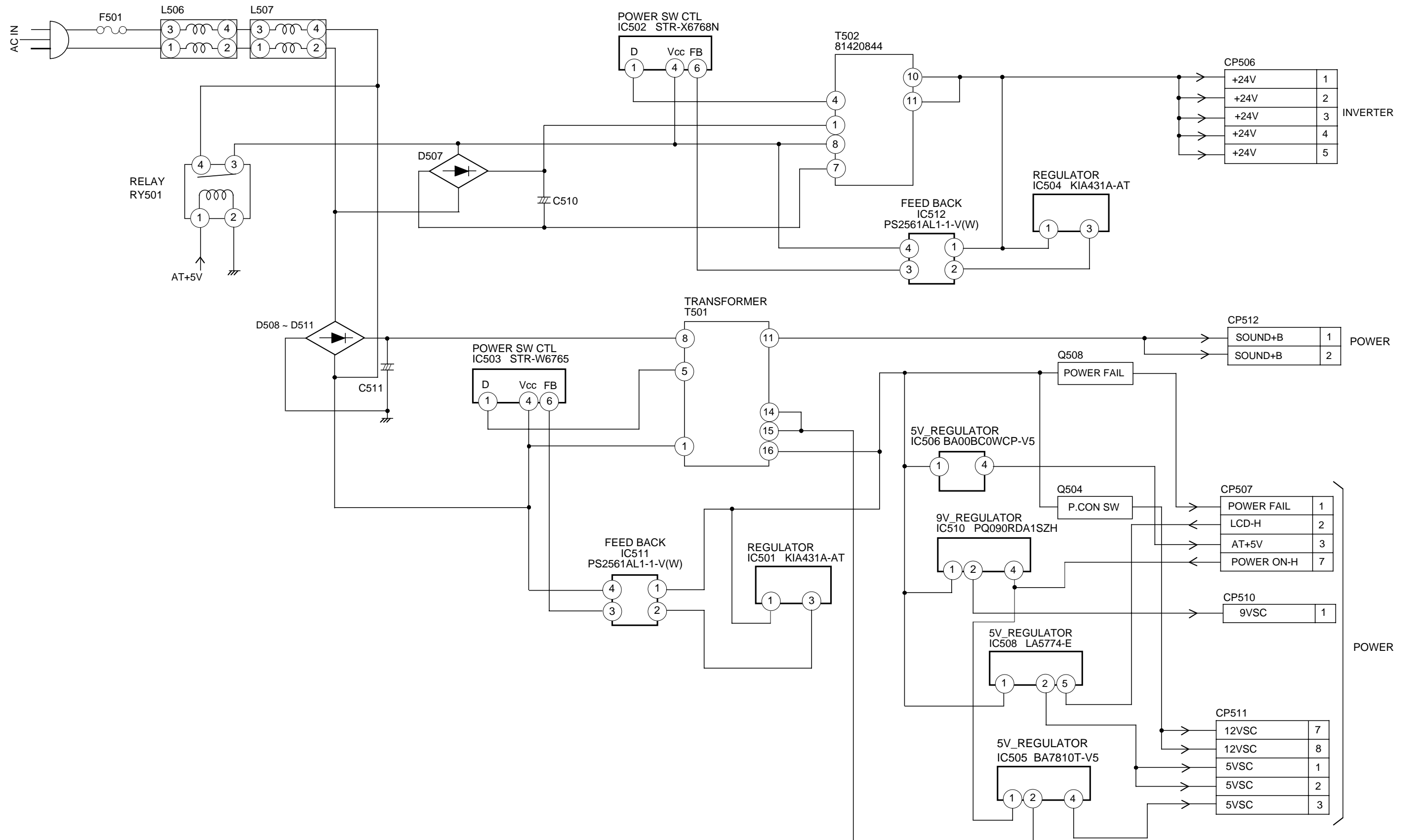
INTERFACE BLOCK DIAGRAM



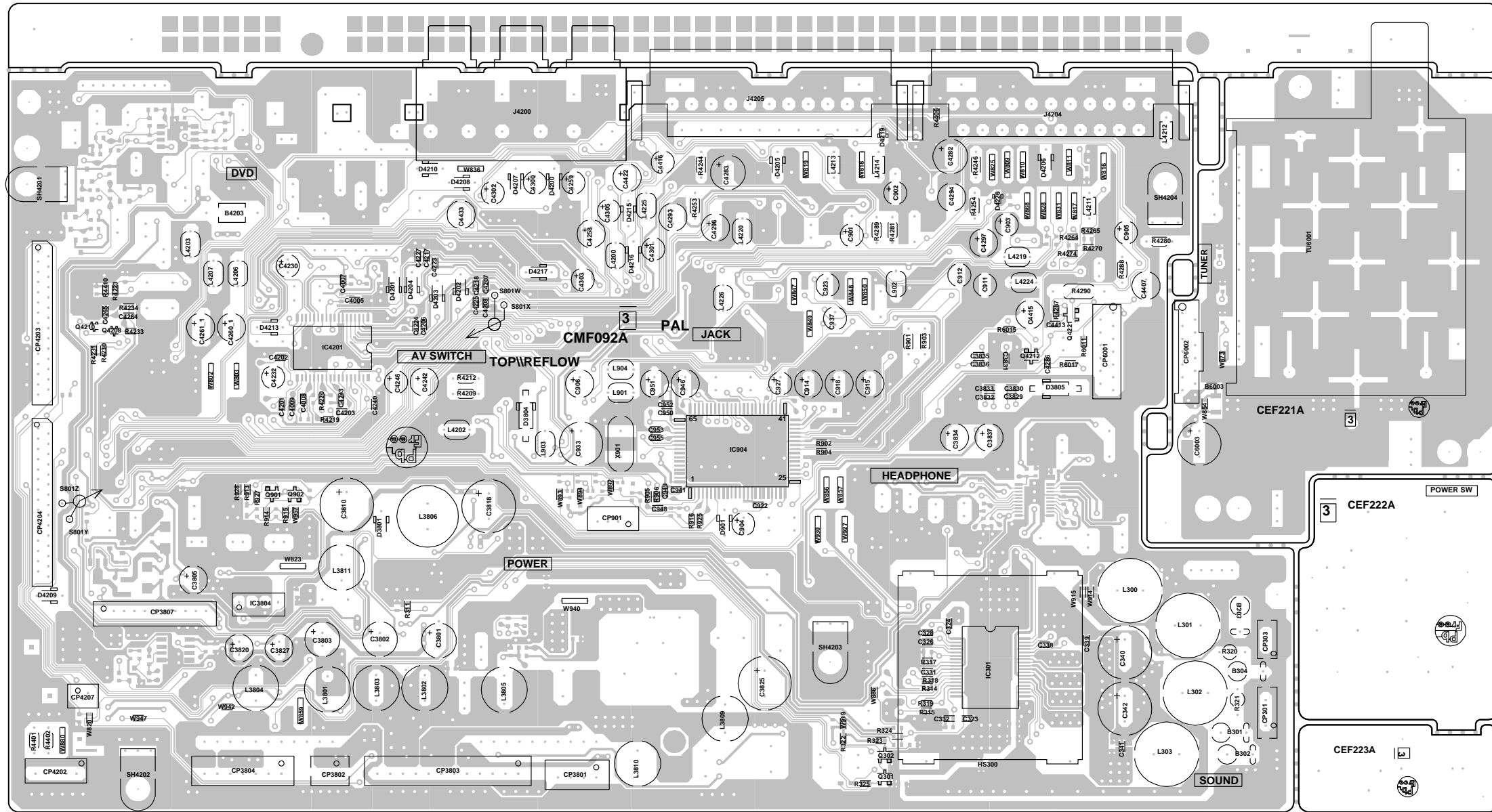
MICON2 BLOCK DIAGRAM



POWER3 BLOCK DIAGRAM

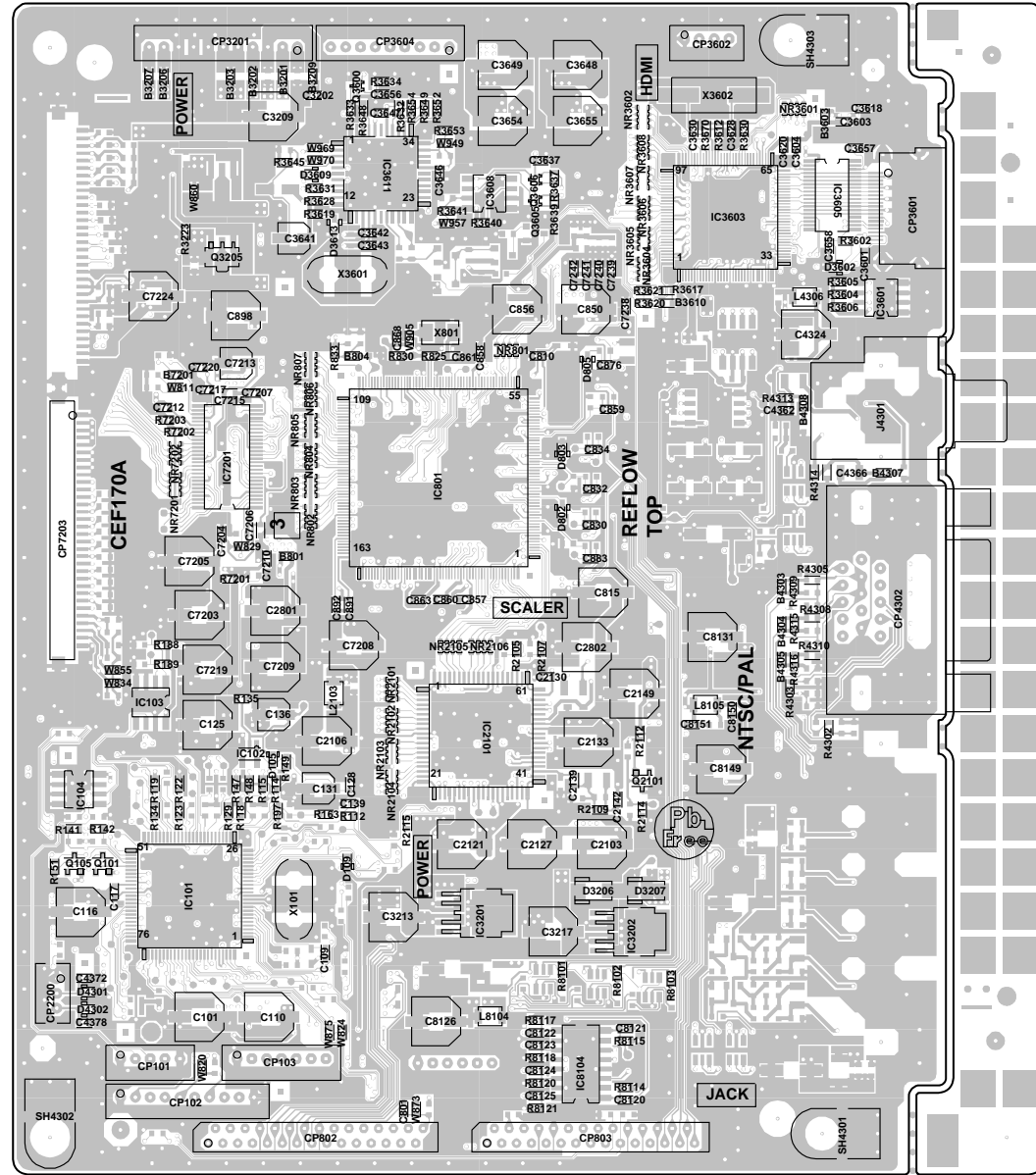


PRINTED CIRCUIT BOARDS AV/TUNER (TOP SIDE)

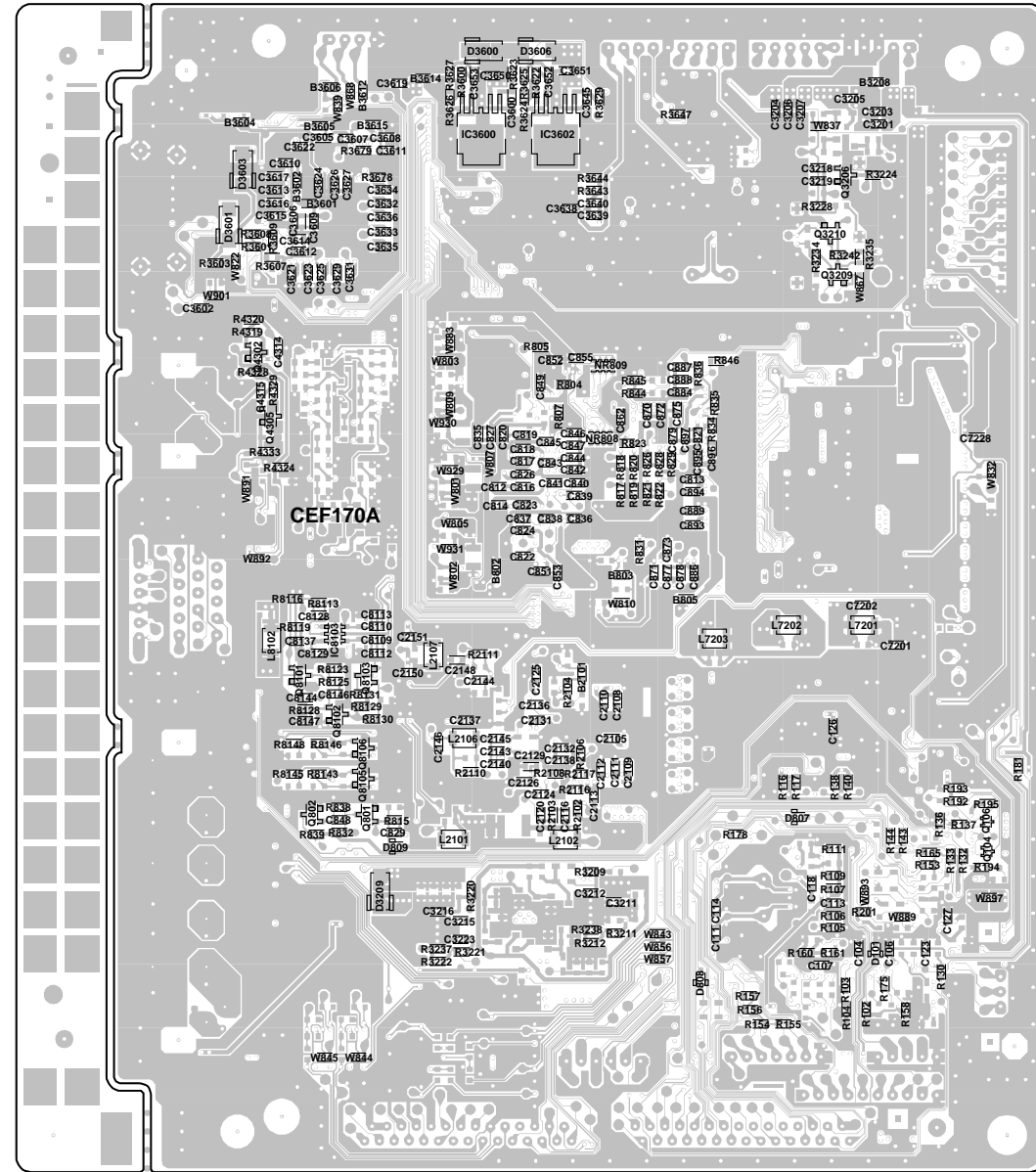


PRINTED CIRCUIT BOARDS

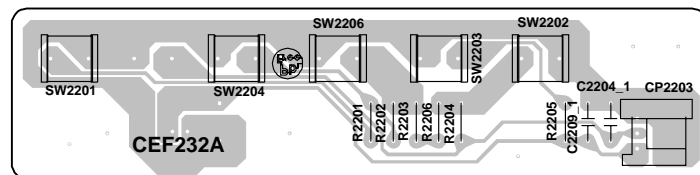
SCALER (TOP SIDE)



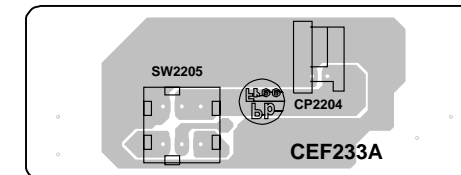
SCALER (BOTTOM SIDE)



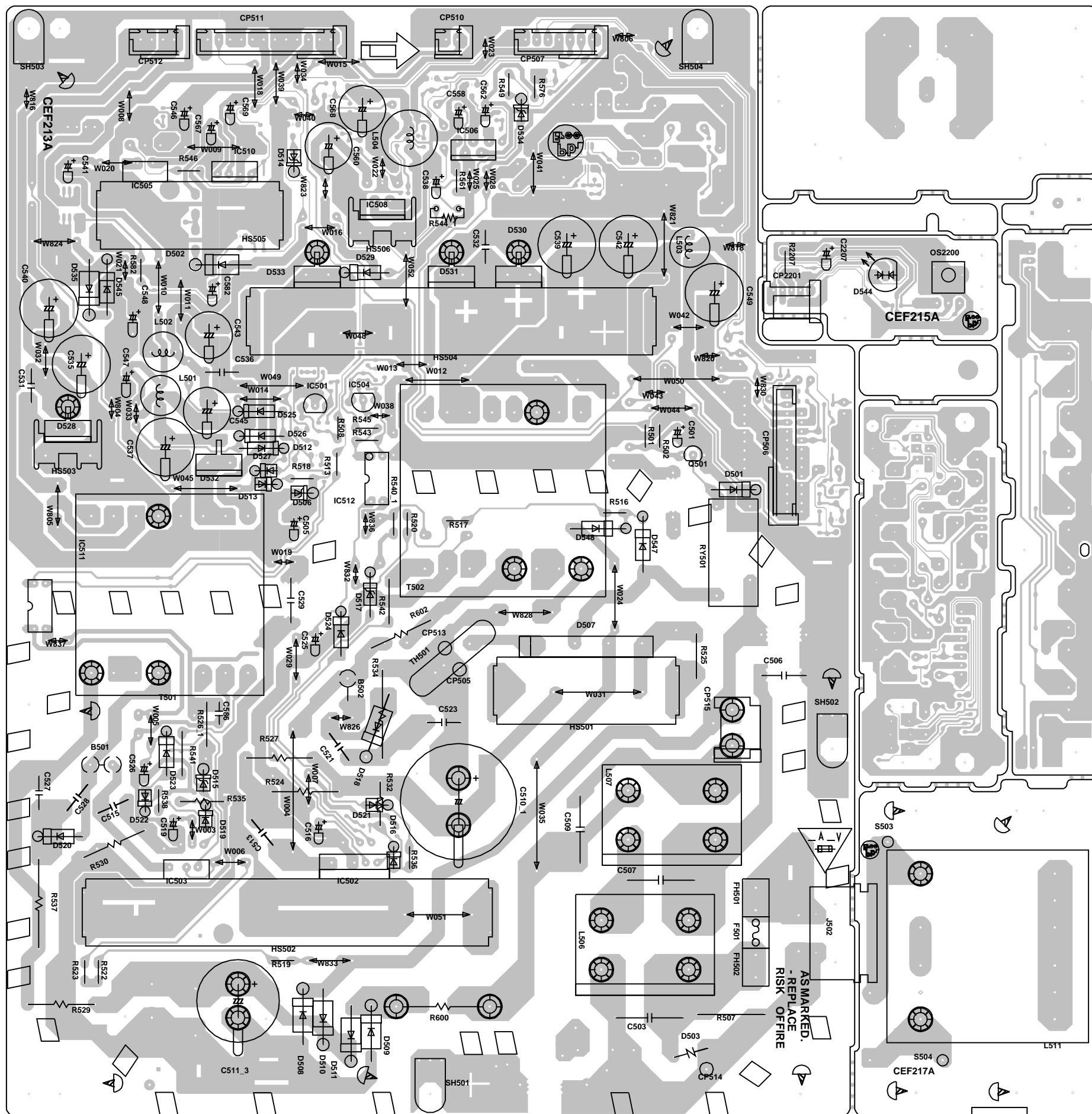
OPERATION (SOLDER SIDE)



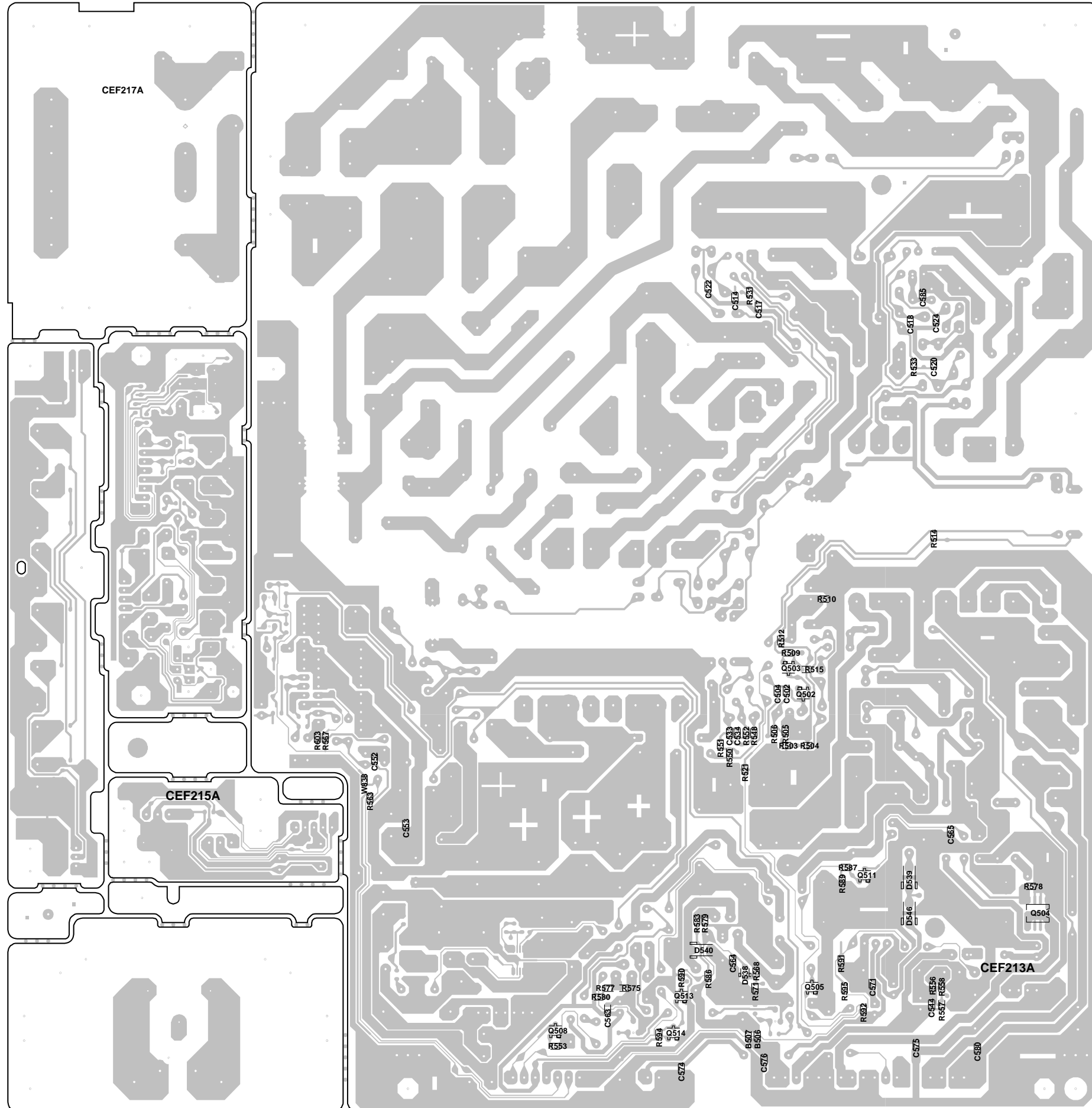
OPERATION 2 (SOLDER SIDE)



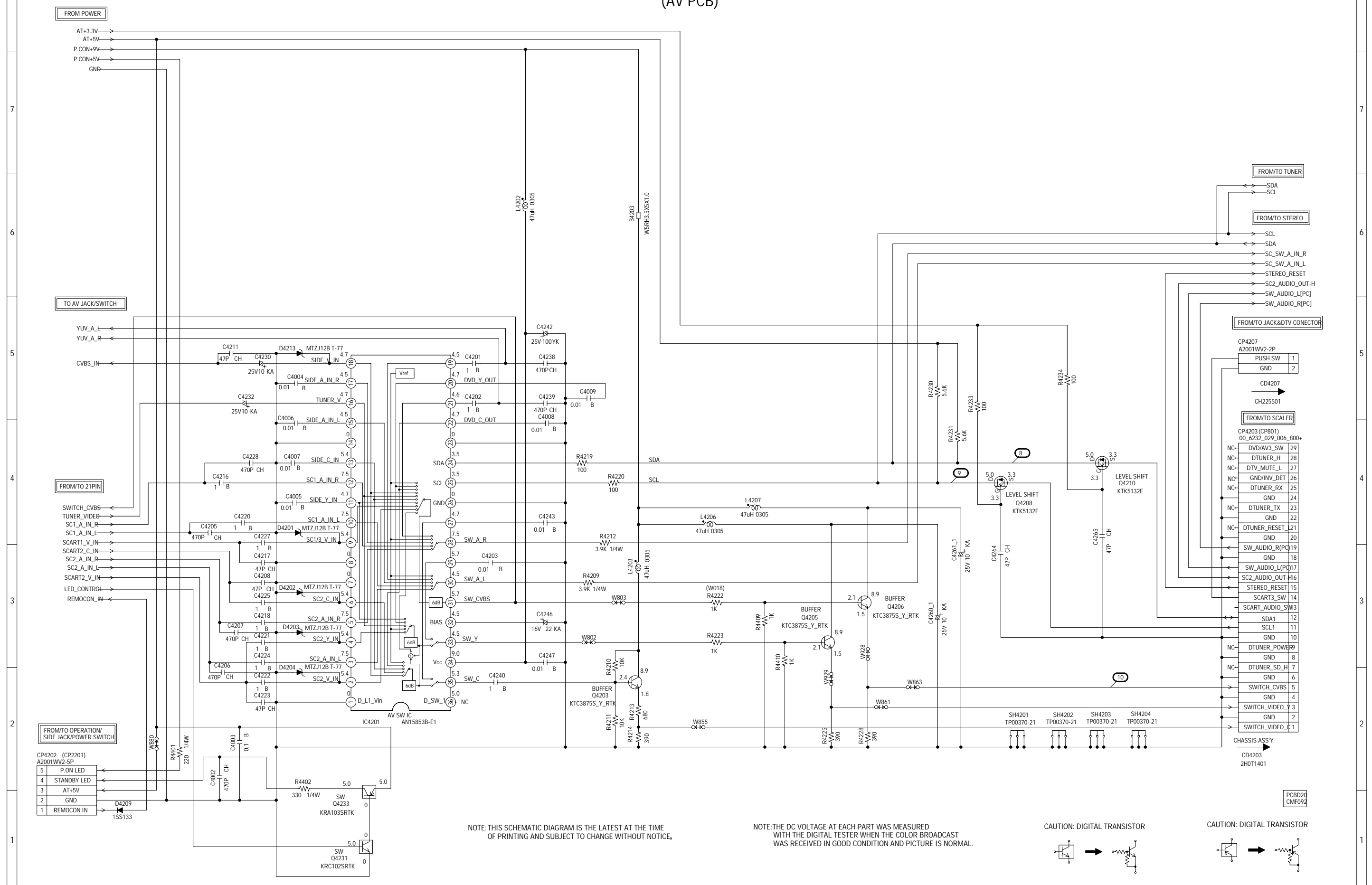
PRINTED CIRCUIT BOARDS
POWER/REMOCON/FILTER (INSERTED PARTS)
SOLDER SIDE



PRINTED CIRCUIT BOARDS
POWER (CHIP MOUNTED PARTS)
SOLDER SIDE



AV SWITCH2 SCHEMATIC DIAGRAM (AV PCB)

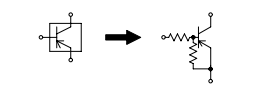
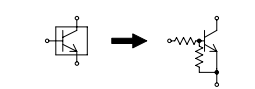


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

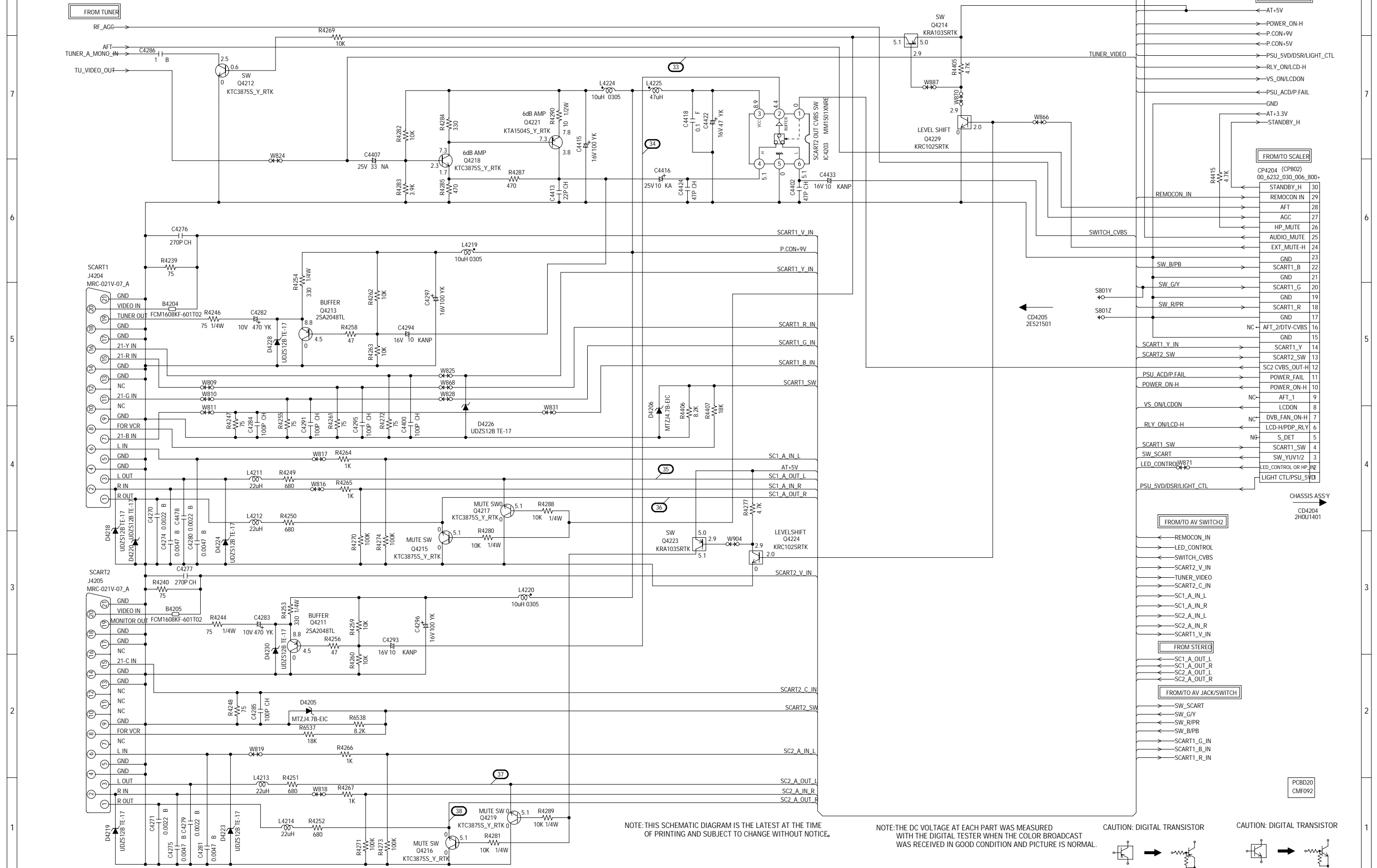
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR



21PIN SCHEMATIC DIAGRAM (AV PCB)



- TO SOUND AMP/HEADPHONE AMP**
- AUDIO_MUTE
 - POWER_ON-H
- FROM/TO POWER**
- ← AT+5V
 - ← POWER_ON-H
 - ← P.CON+9V
 - ← P.CON+5V
 - ← PSU_5VD/DSR/LIGHT_CTL
 - ← RLY_ON/LCD-H
 - ← VS_ON/LCDON
 - ← PSU_ACD/P.FAIL
 - ← GND
 - ← AT-3.3V
 - ← STANDBY_H

- FROM/TO SCALER**
- CP4204 (CP802)
00_6232_030_006_800+
- | | |
|-------------------|----|
| STANDBY_H | 30 |
| REMOCON_IN | 29 |
| AFT | 28 |
| AGC | 27 |
| HP_MUTE | 26 |
| AUDIO_MUTE | 25 |
| EXT_MUTE-H | 24 |
| GND | 23 |
| SCART1_B | 22 |
| GND | 21 |
| SCART1_G | 20 |
| GND | 19 |
| SCART1_R | 18 |
| GND | 17 |
| AFT_2/DTV-CVBS | 16 |
| GND | 15 |
| SCART1_Y_IN | 14 |
| SCART2_SW | 13 |
| SC2 CVBS_OUT-H | 12 |
| POWER_FAIL | 11 |
| POWER_ON-H | 10 |
| AFT_1 | 9 |
| LCDON | 8 |
| DVB_FAN_ON-H | 7 |
| LCD-H/PPD_RLY | 6 |
| S_DET | 5 |
| SCART1_SW | 4 |
| SW_YUV1/2 | 3 |
| LED_CONTROL OR HP | 2 |
| LIGHT_CTL/PSU_5V | 1 |

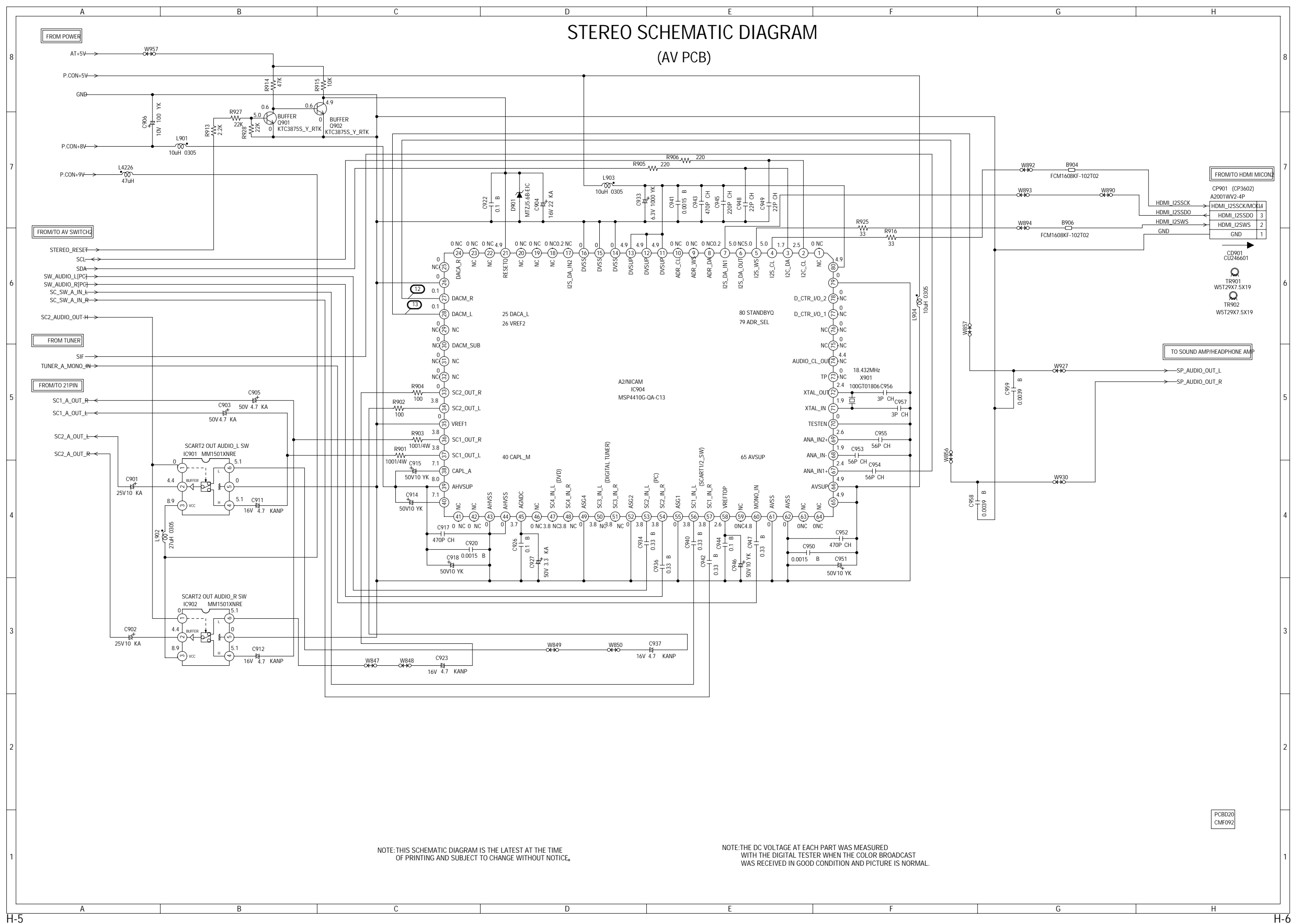
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR



STEREO SCHEMATIC DIAGRAM (AV PCB)

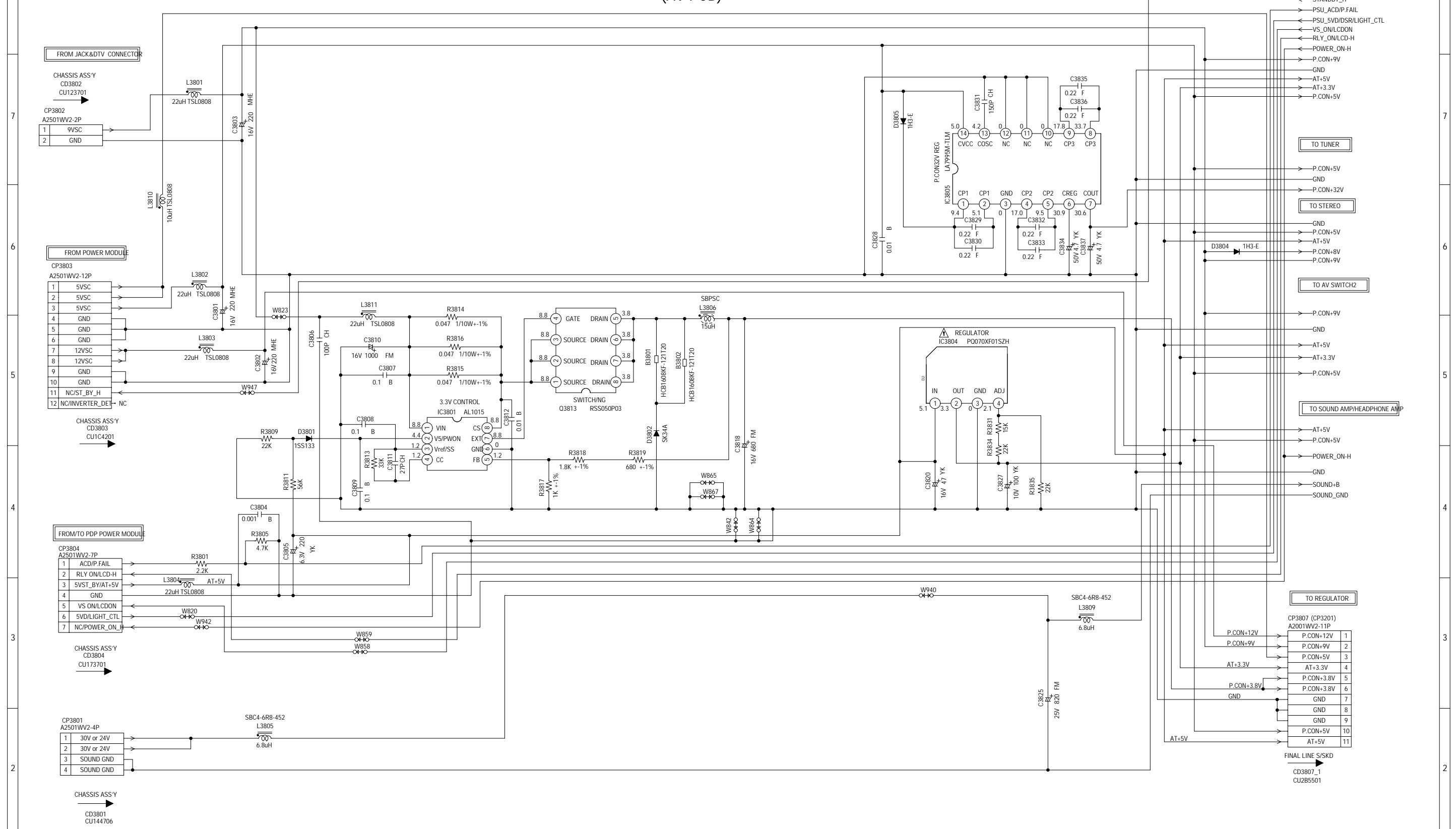


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CMF092

POWER SCHEMATIC DIAGRAM (AV PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

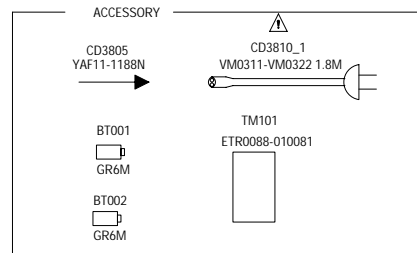
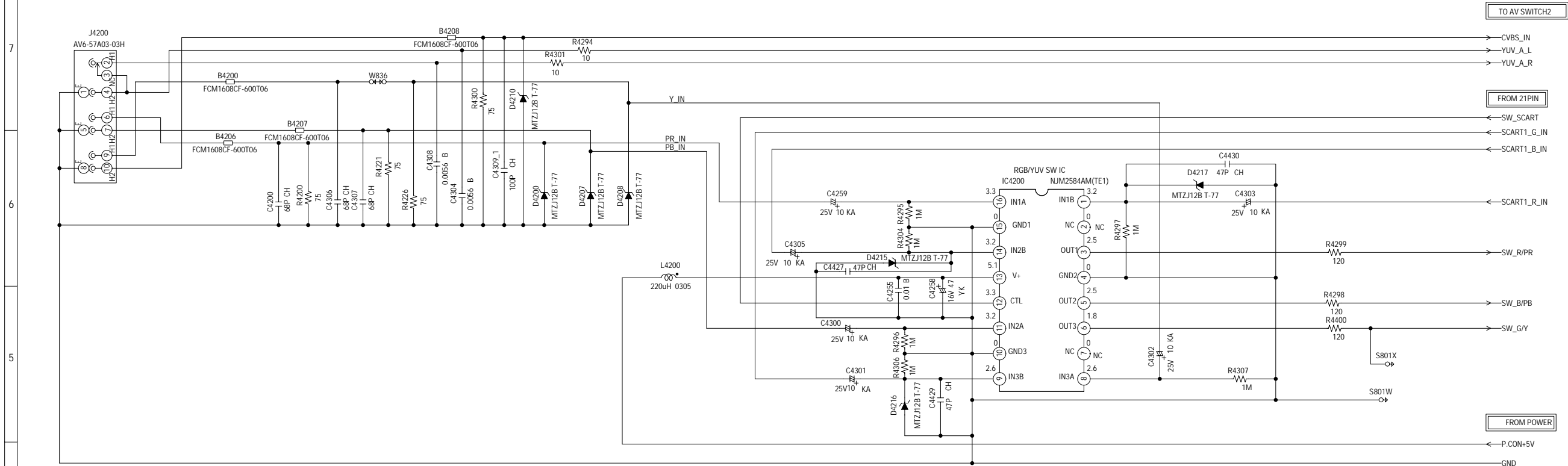
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBD20
CMF092

AV JACK/SWITCH SCHEMATIC DIAGRAM (AV PCB)



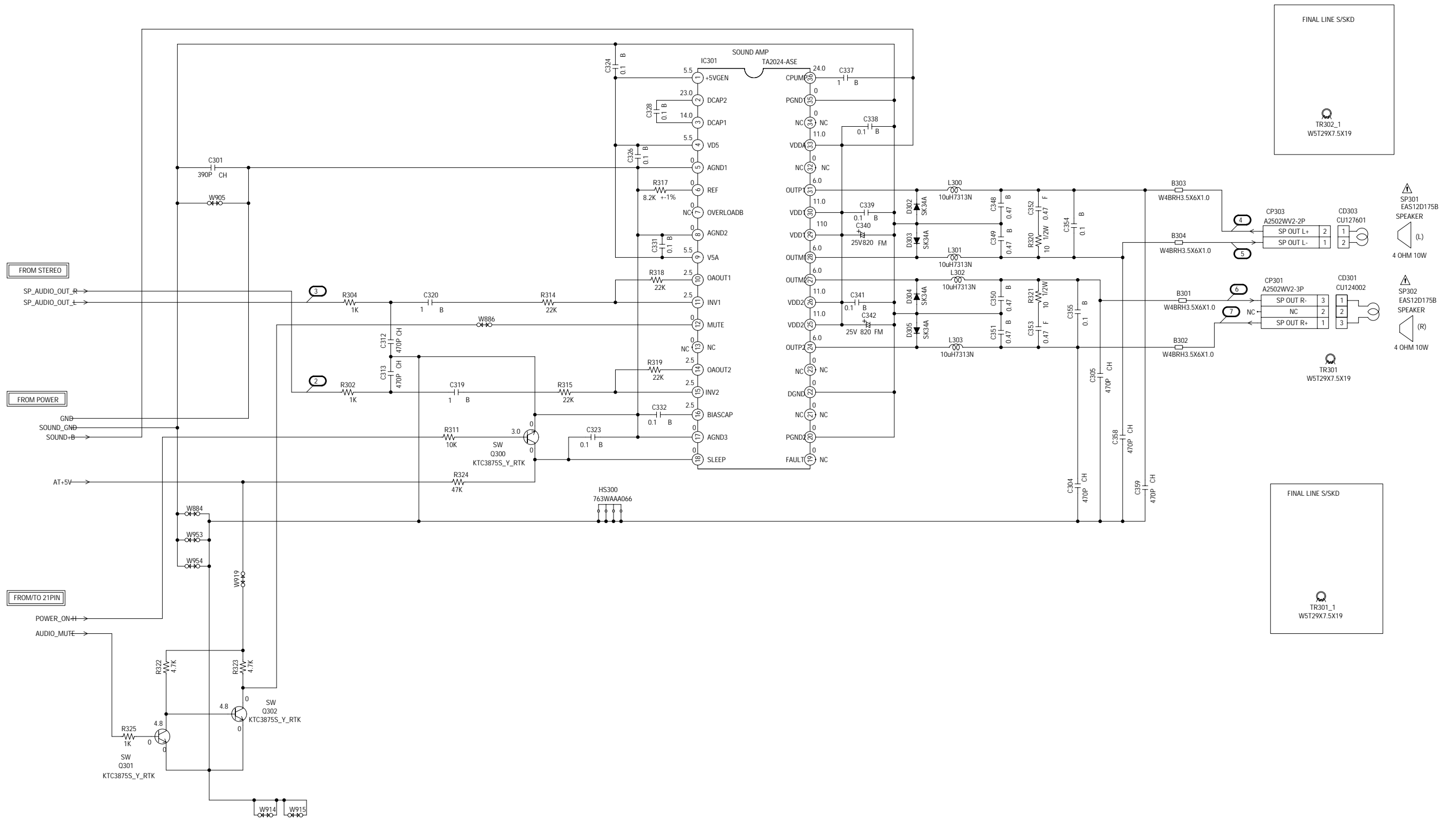
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBD20
CMF092

SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM

(AV PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

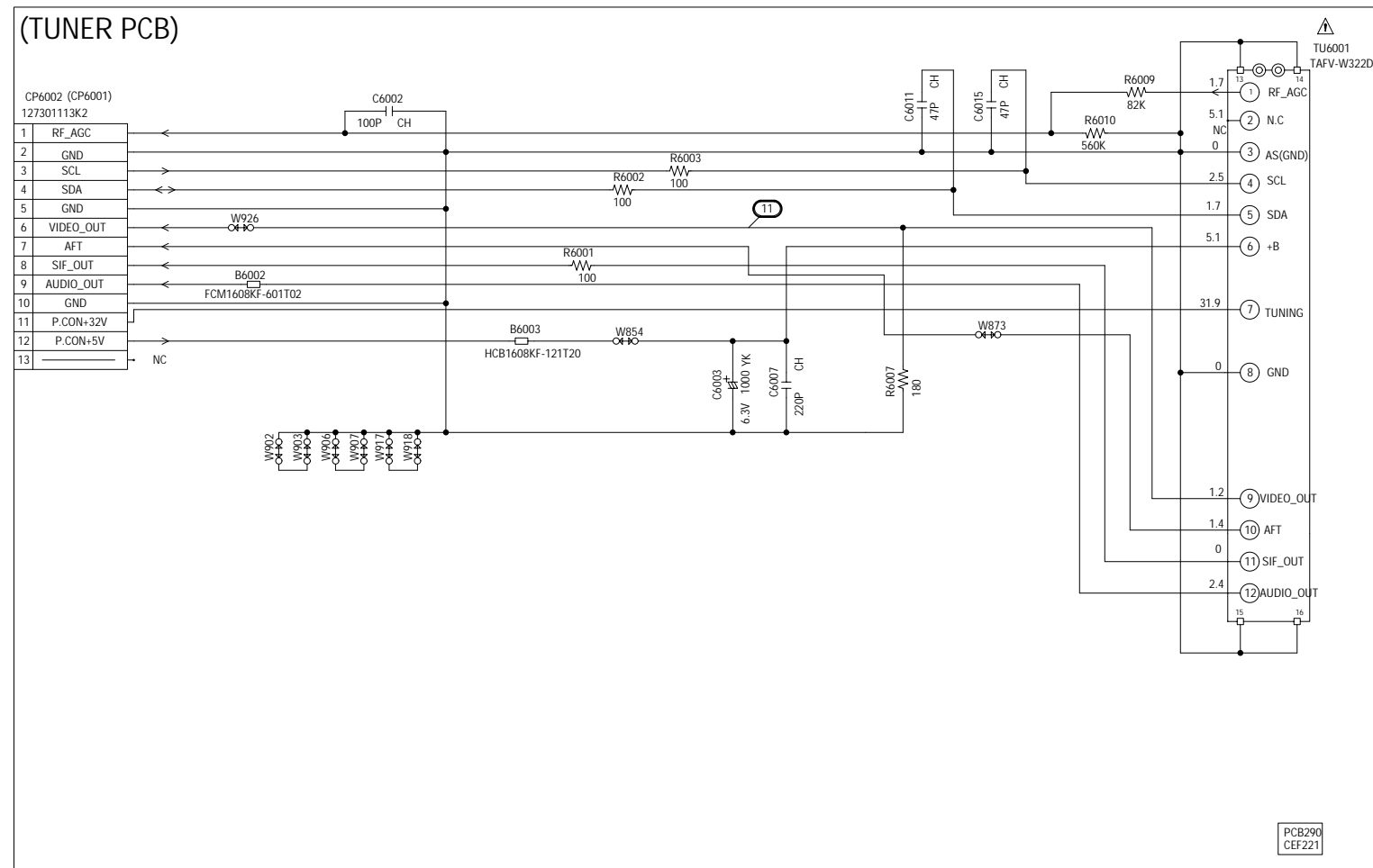
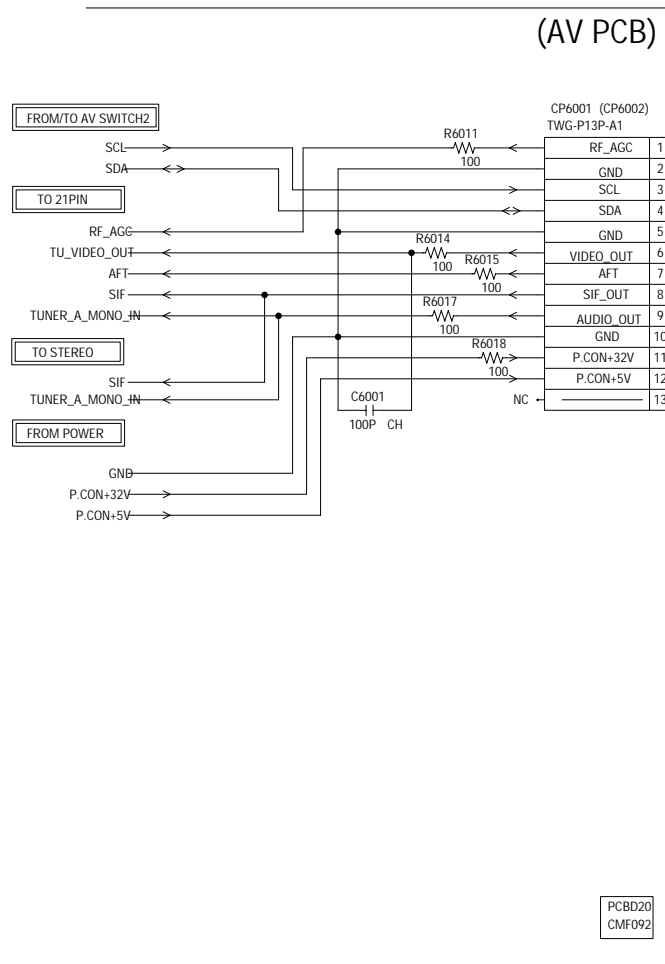
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBD20
CMF092

TUNER SCHEMATIC DIAGRAM (AV PCB)



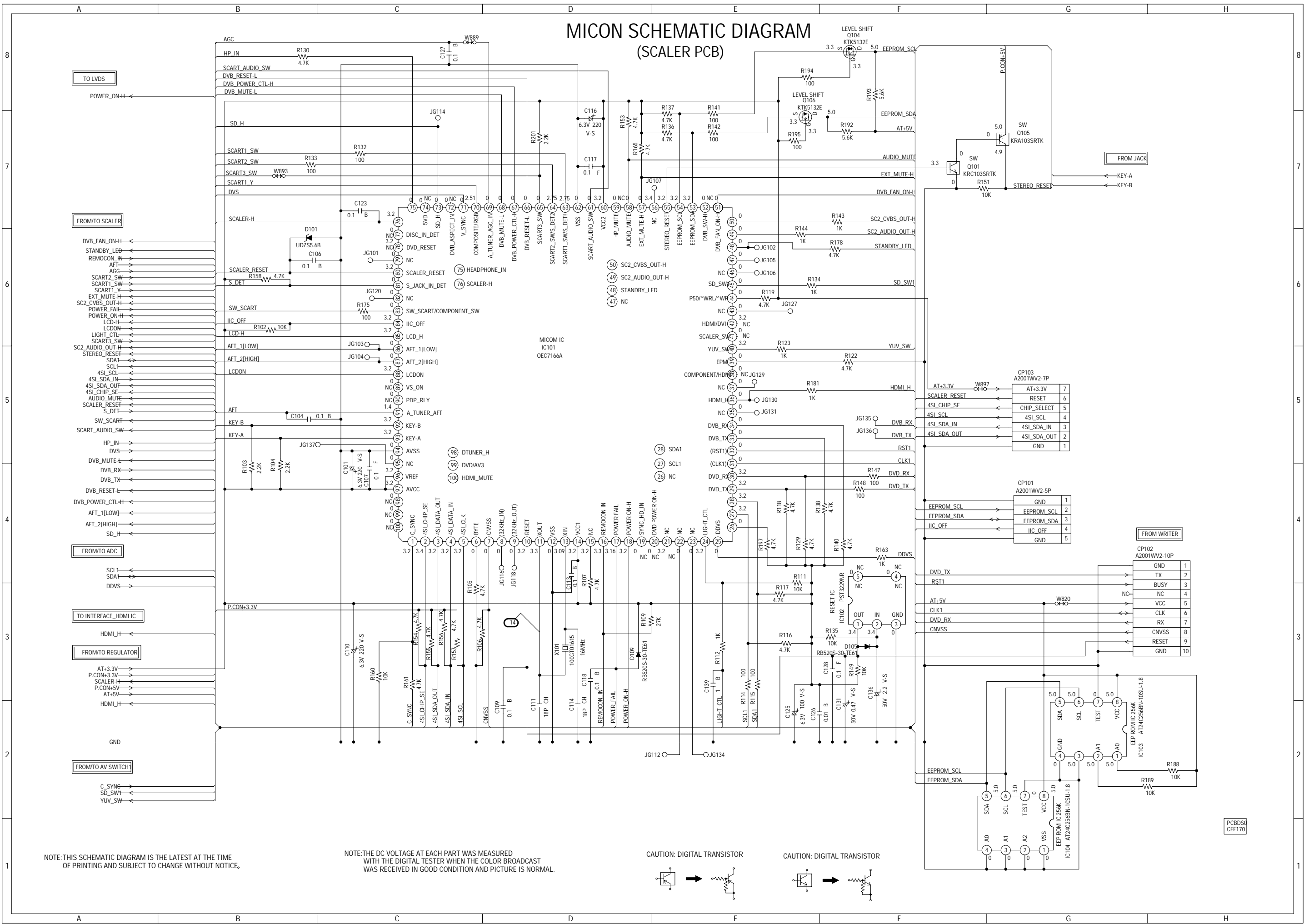
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION - LES PIÈCES REPARÉES PAR UN ÉTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION - SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

MICON SCHEMATIC DIAGRAM (SCALER PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

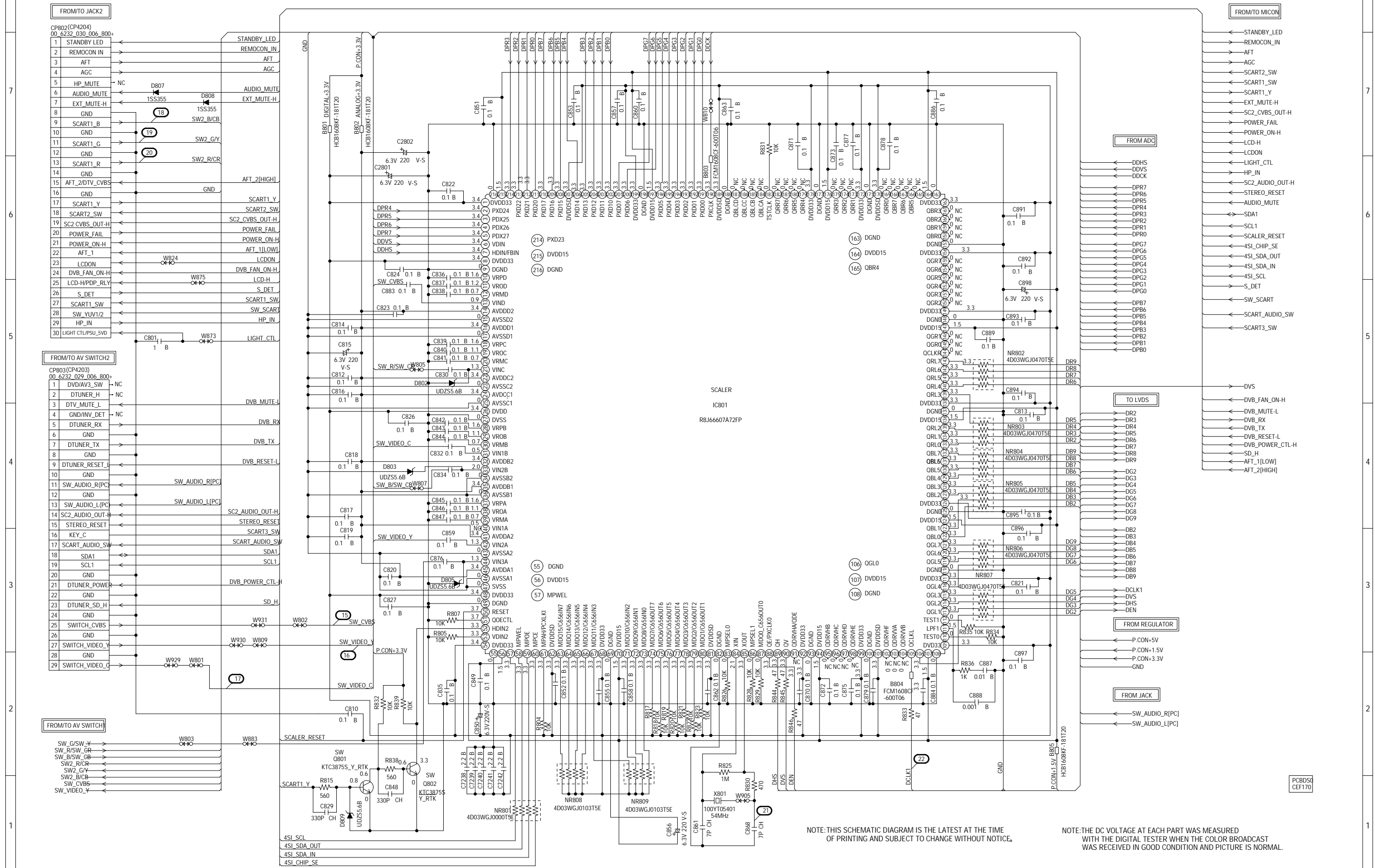
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR



PCBDS4
CEF170

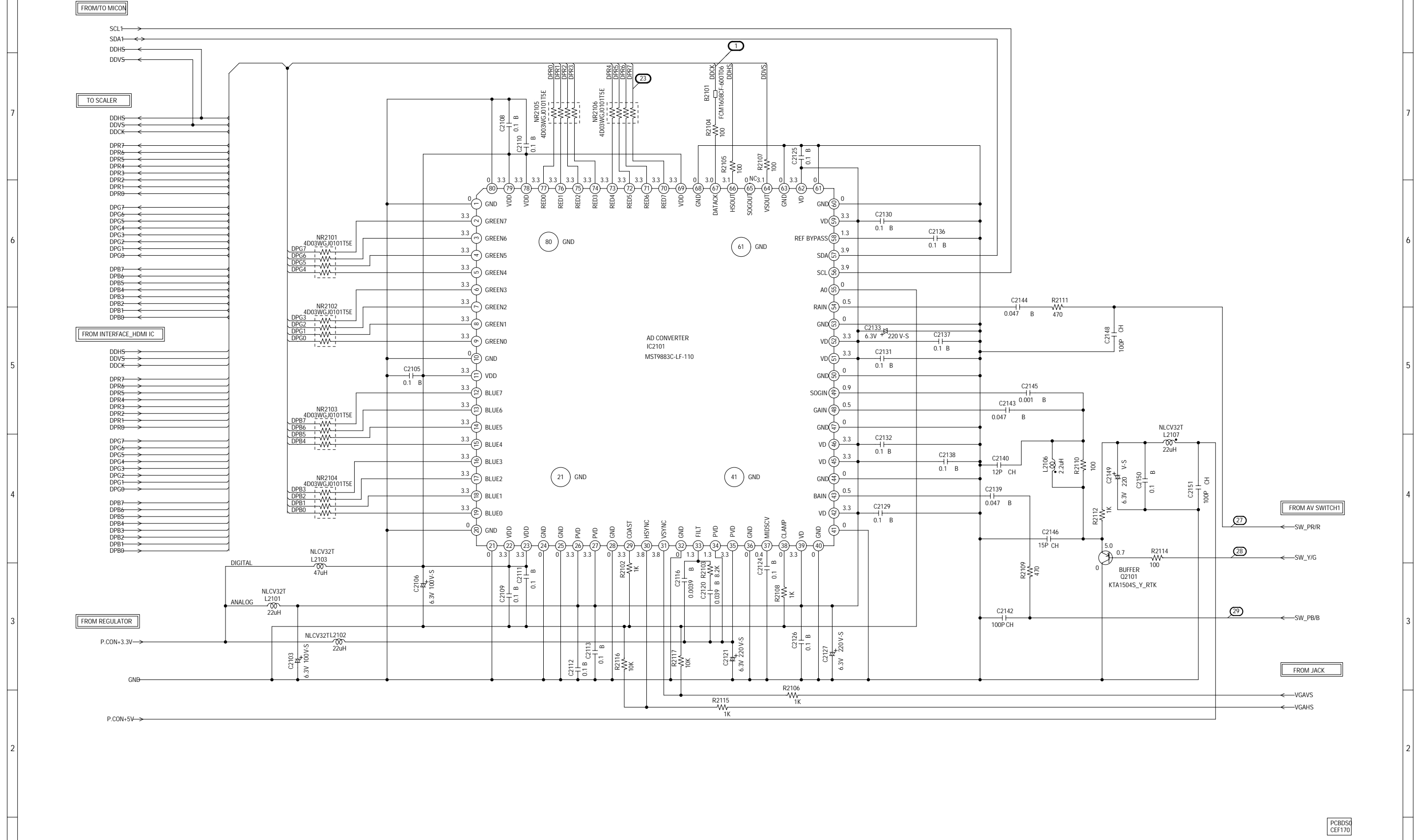
SCALER SCHEMATIC DIAGRAM (SCALER PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

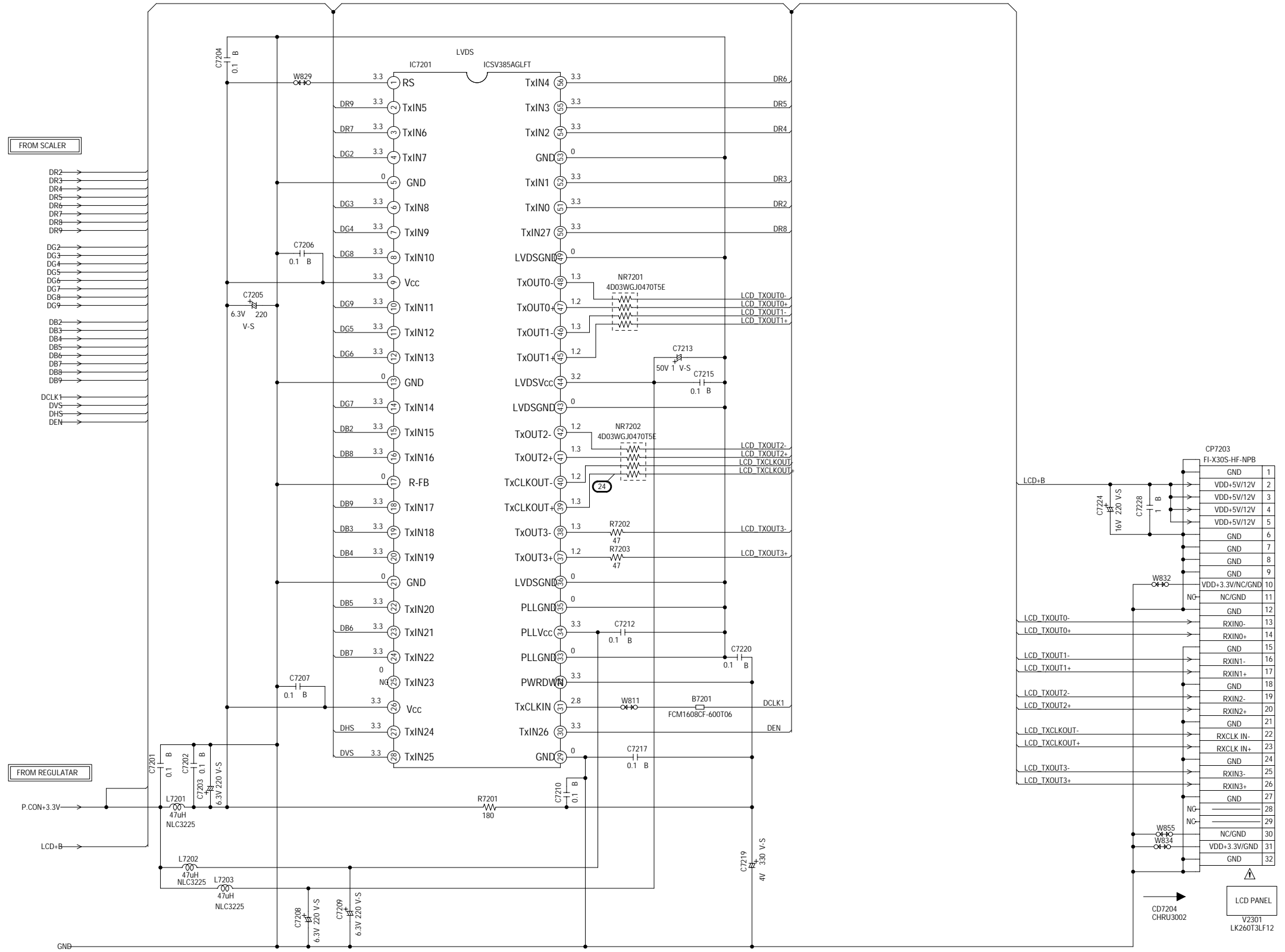
ADC SCHEMATIC DIAGRAM (SCALER PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

LVDS SCHEMATIC DIAGRAM (SCALER PCB)



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

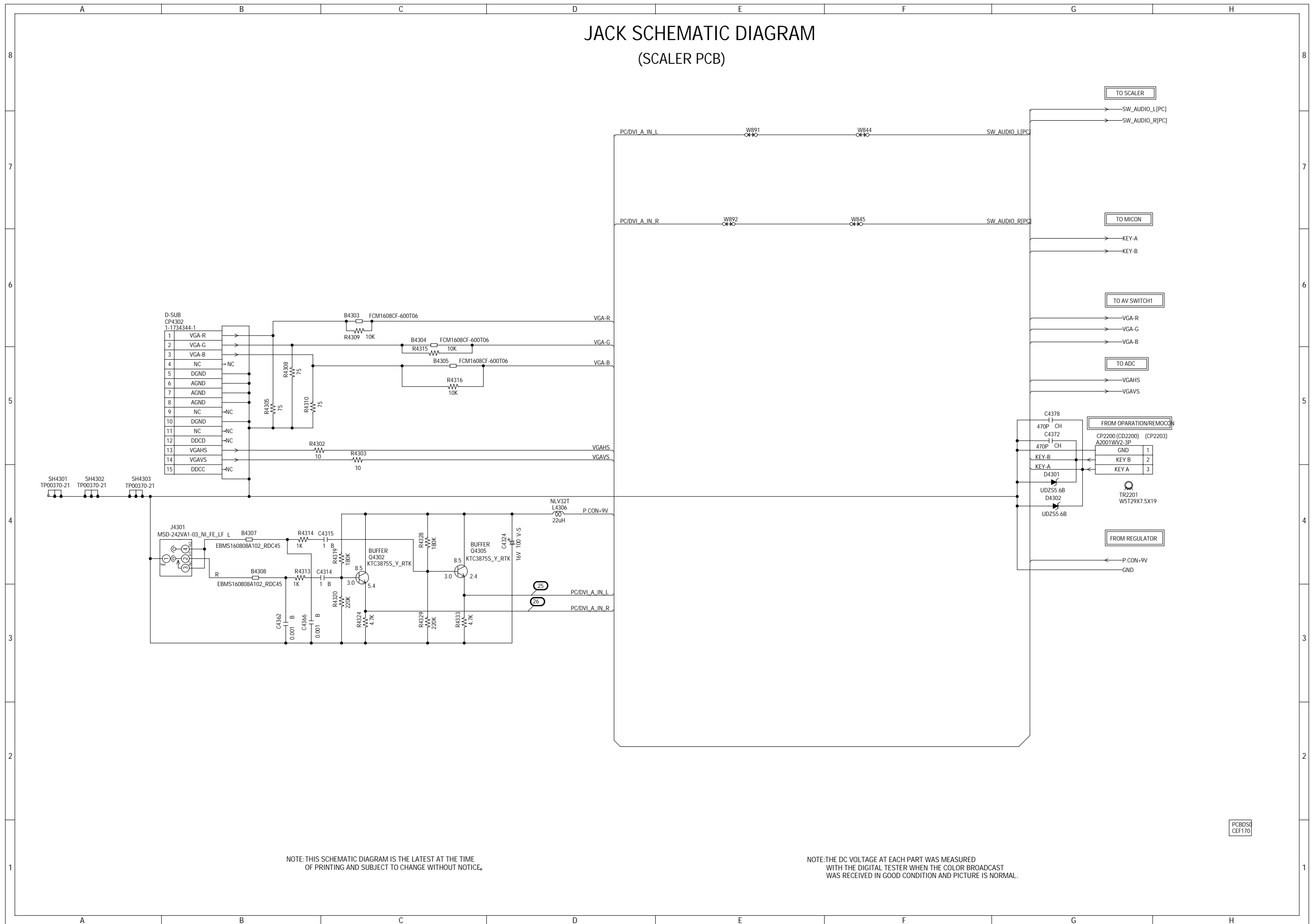
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION - LES PIÈCES RÉPARÉES PAR UN ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION - SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBDS4
CEF170

JACK SCHEMATIC DIAGRAM (SCALER PCB)

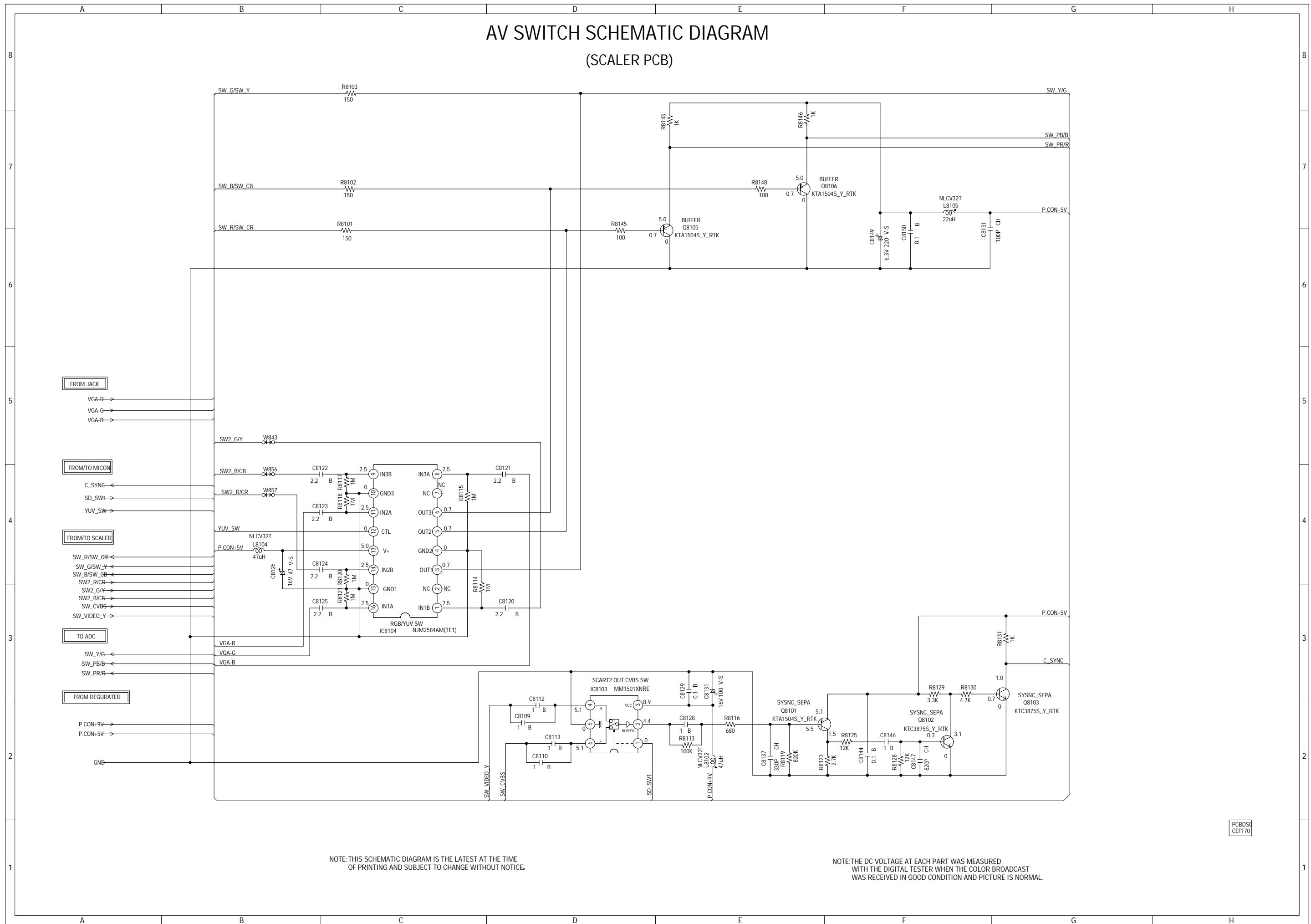


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDS4
CEF170

AV SWITCH SCHEMATIC DIAGRAM (SCALER PCB)

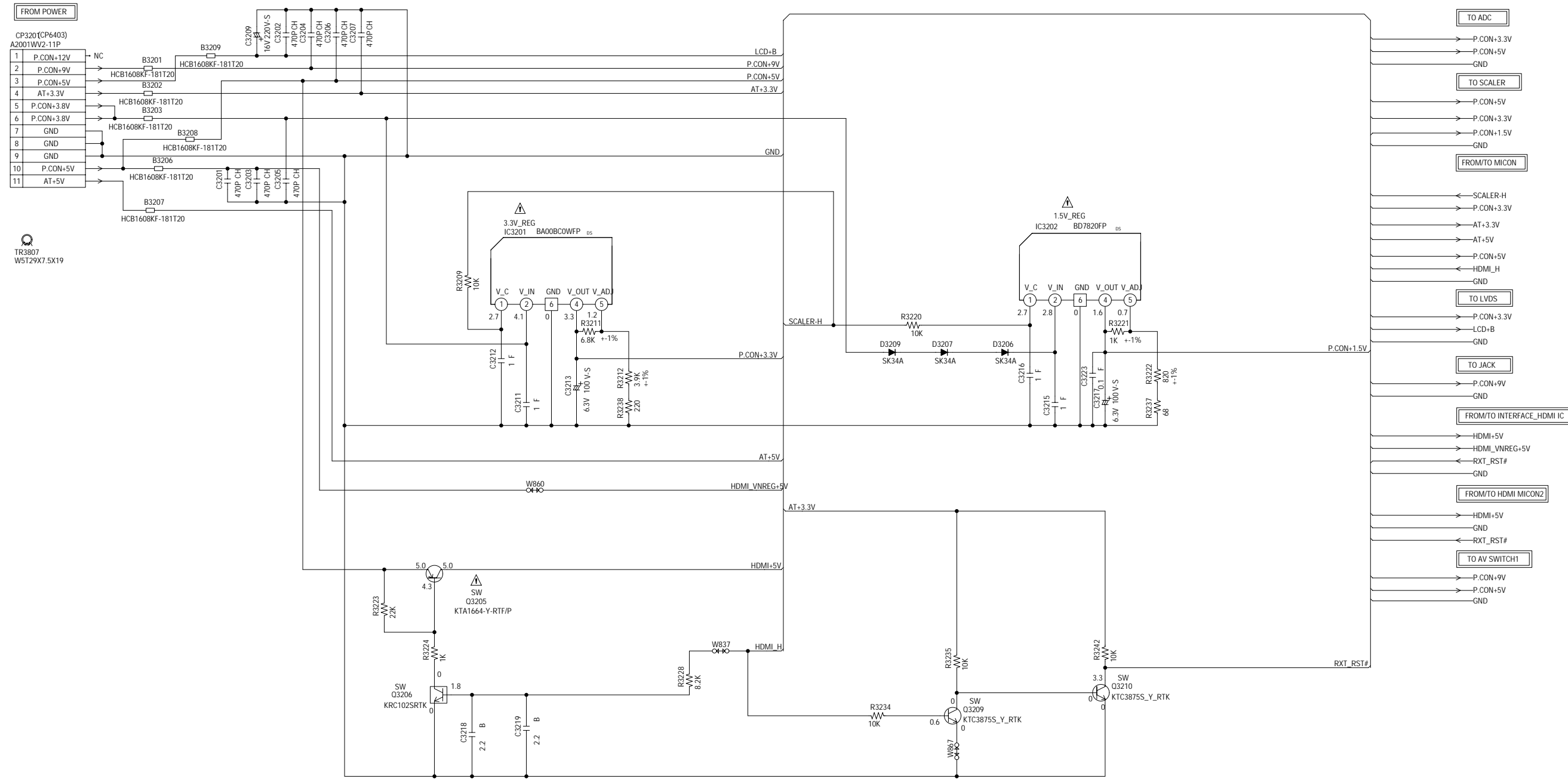


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDSQ
CEF170

REGULATOR SCHEMATIC DIAGRAM (SCALER PCB)



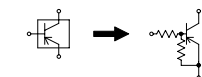
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

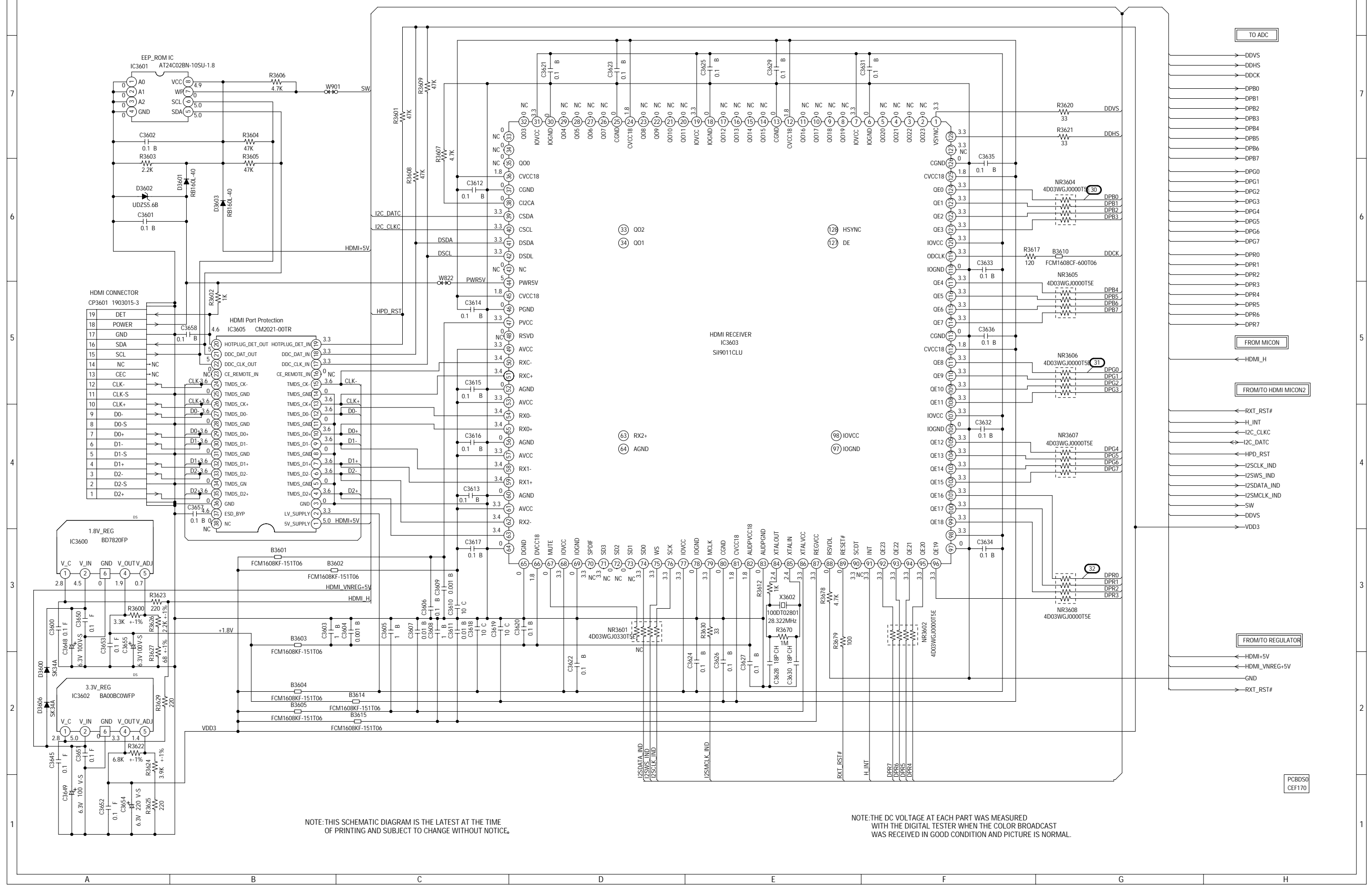
ATTENTION LES PIÈCES RÉPARÉES PAR UN ⚠️ ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION SINCE THESE PARTS MARKED BY ⚠️ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR



INTERFACE_HDMI IC SCHEMATIC DIAGRAM (SCALER PCB)



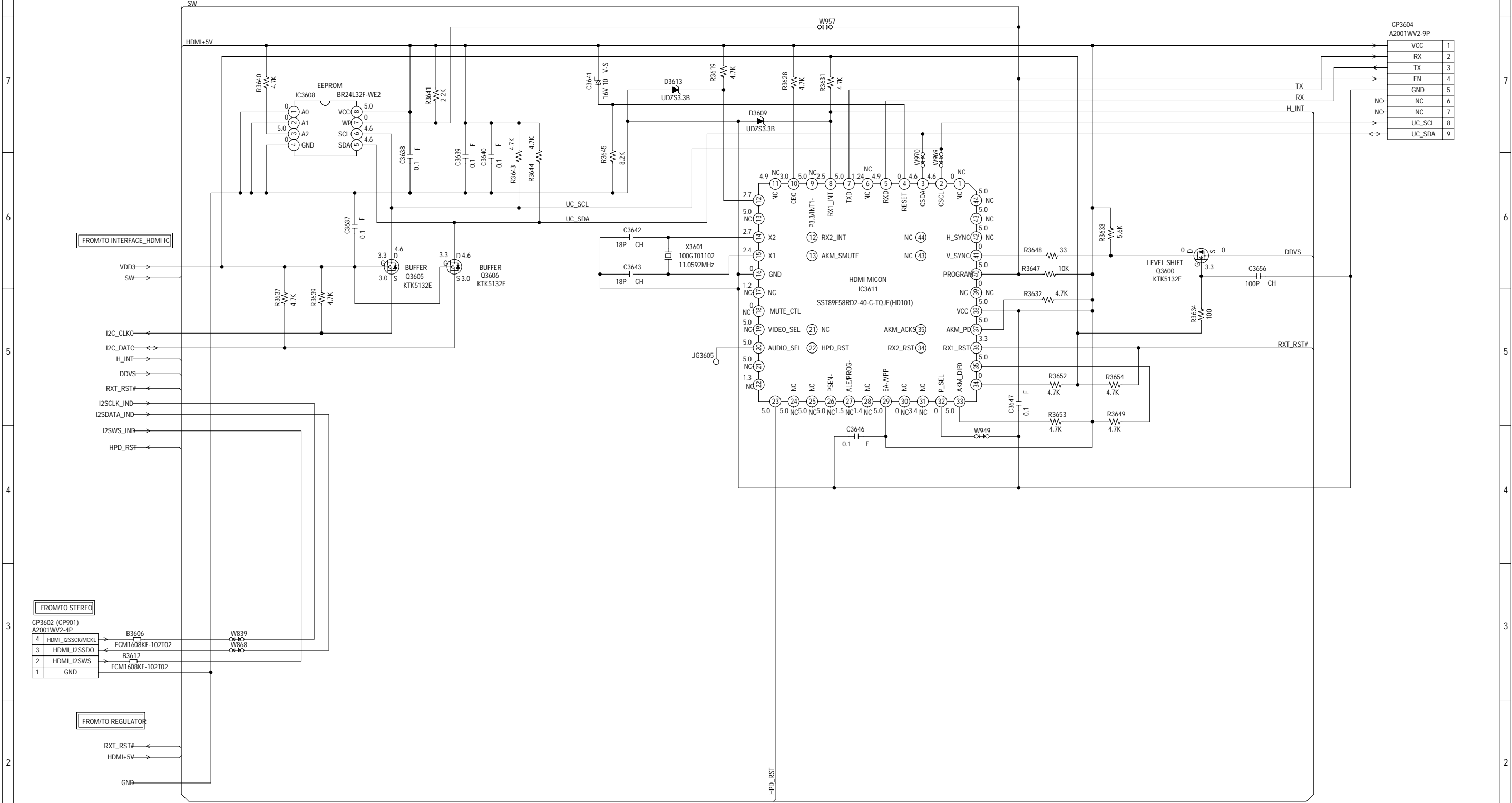
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

- TO ADC
- DDVS
- DDHS
- DDCK
- DPB0
- DPB1
- DPB2
- DPB3
- DPB4
- DPB5
- DPB6
- DPB7
- DPG0
- DPG1
- DPG2
- DPG3
- DPG4
- DPG5
- DPG6
- DPG7
- DPR0
- DPR1
- DPR2
- DPR3
- DPR4
- DPR5
- DPR6
- DPR7
- FROM MICON
- HDMI_H
- FROM TO HDMI MICON2
- RXT_RST#
- H_INT
- I2C_CLKC
- HPD_RST
- I2SCLK_IND
- I2SWS_IND
- I2SDATA_IND
- I2SMCLK_IND
- SW
- DDVS
- VDD3
- FROM TO REGULATOR
- HDMI+5V
- HDMI_VNREG+5V
- GND
- RXT_RST#

PCBDS0
CEF170

HDMI MICON2 SCHEMATIC DIAGRAM (SCALER PCB)

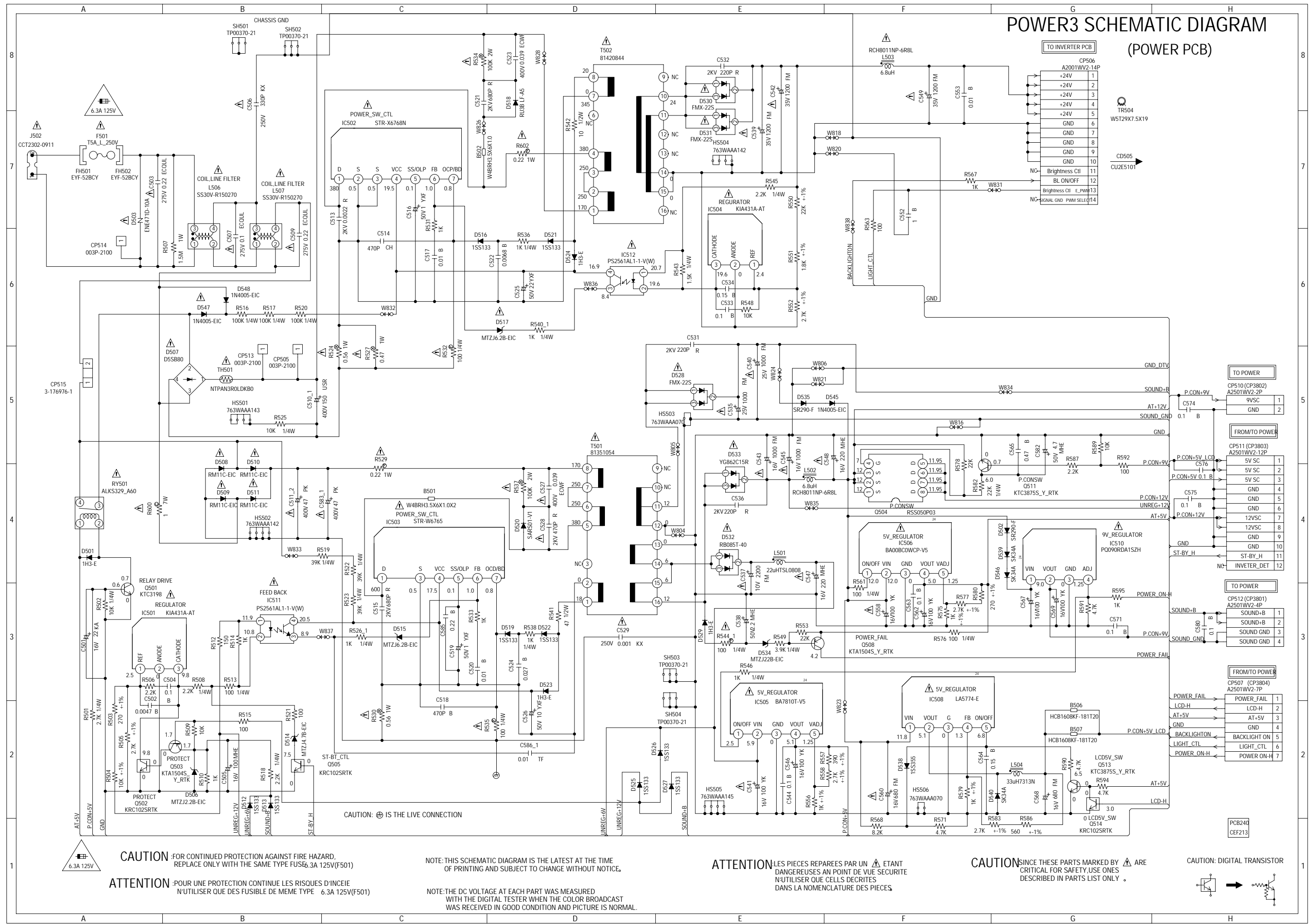


NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

PCBDS0
CEF170

POWER3 SCHEMATIC DIAGRAM

(POWER PCB)



CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 6.3A 125V(F501)

ATTENTION POUR UNE PROTECTION CONTINUE LES RISQUES D'INCENDIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 6.3A 125V(F501)

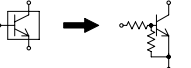
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

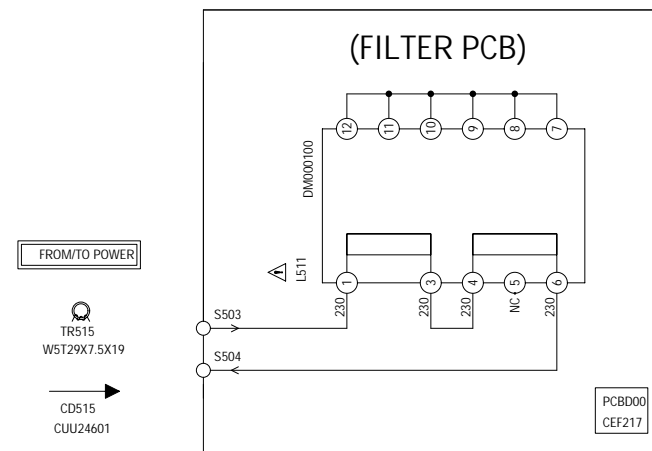
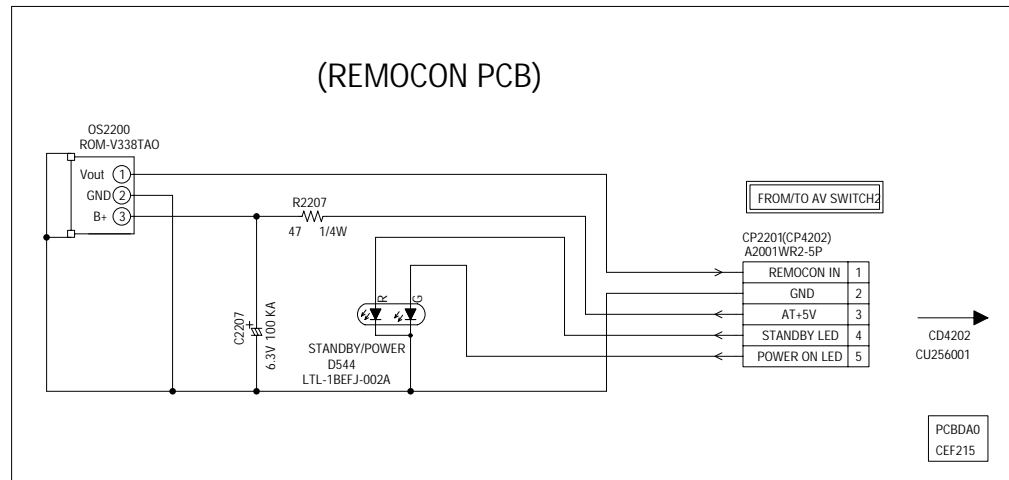
ATTENTION LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

CAUTION: DIGITAL TRANSISTOR



REMOCON/FILTER SCHEMATIC DIAGRAM



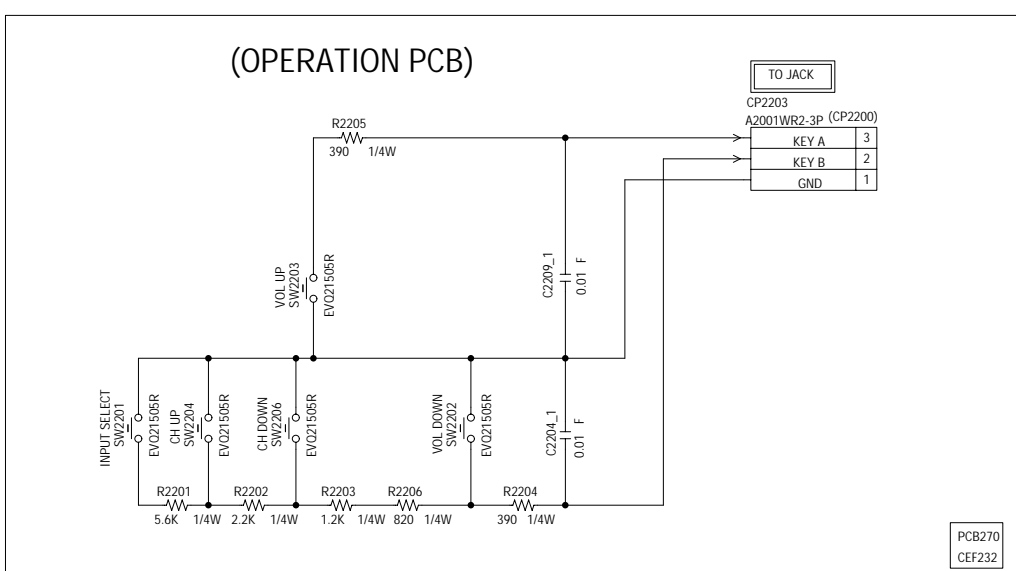
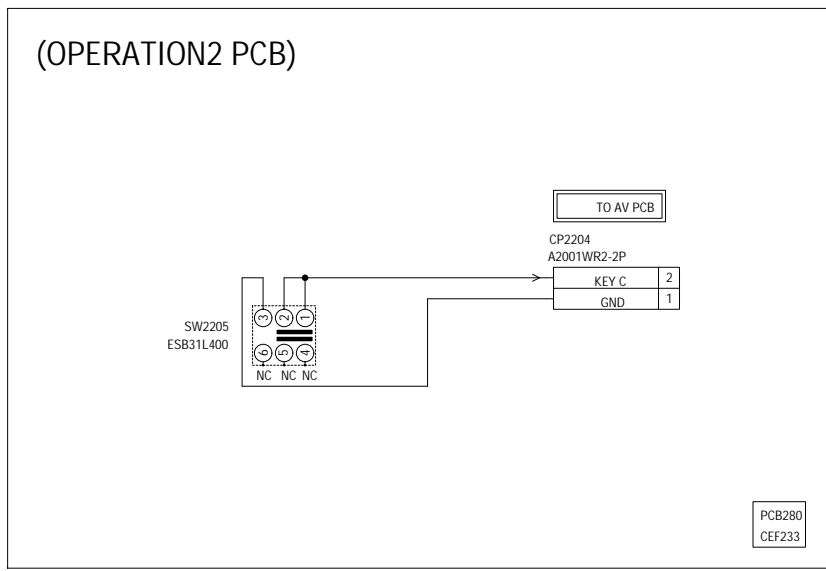
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIÈCES RÉPARÉES PAR UN ETANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES.

CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

OPERATION SCHEMATIC DIAGRAM (OPERATION PCB)

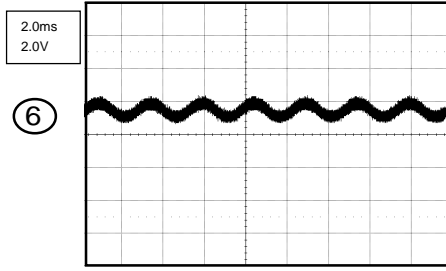
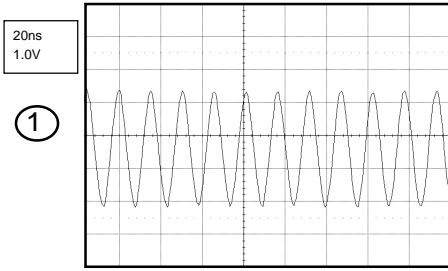


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

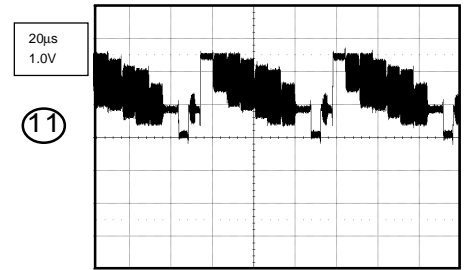
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

WAVEFORMS

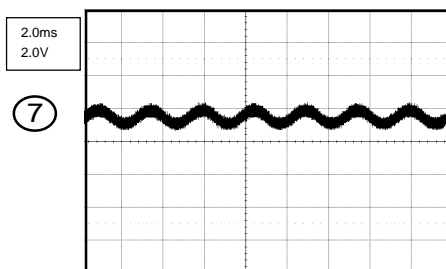
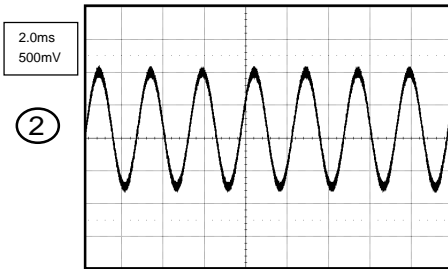
ADC



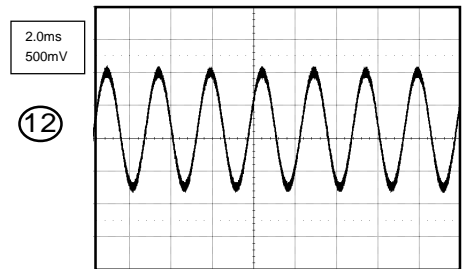
TUNER



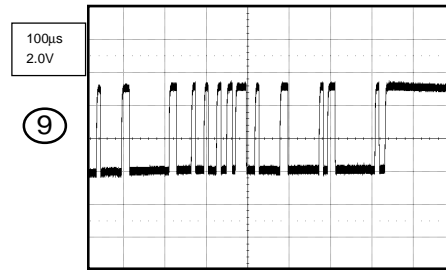
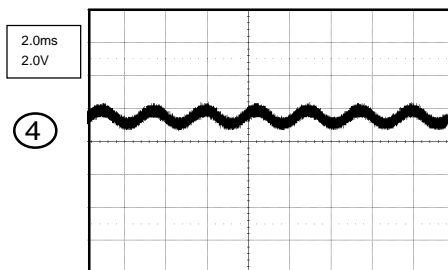
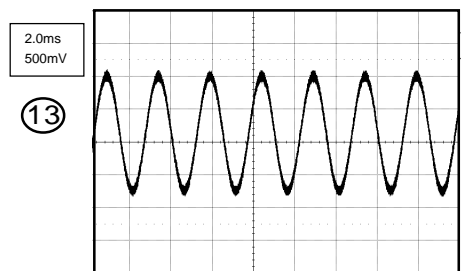
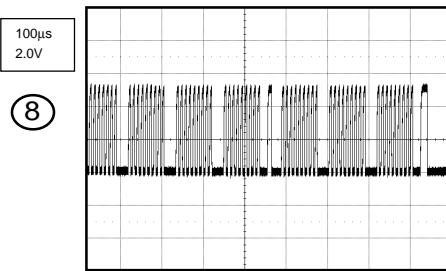
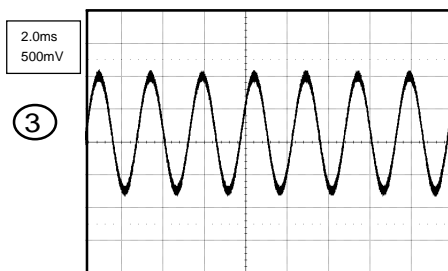
SOUND AMP/HEADPHONE AMP



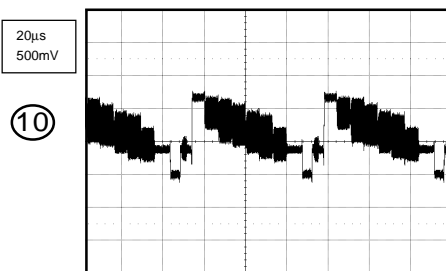
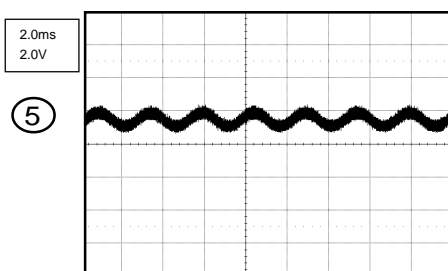
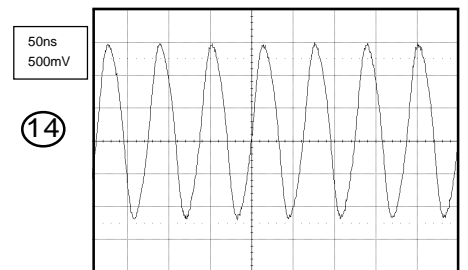
STEREO



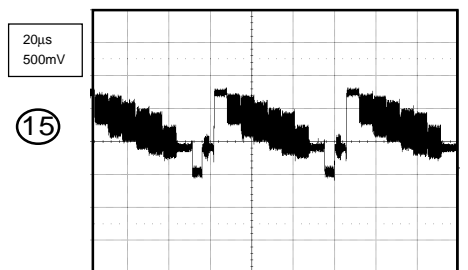
AV SWITCH2



MICON

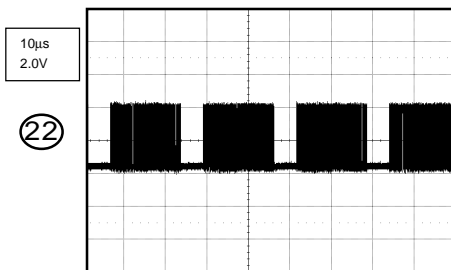
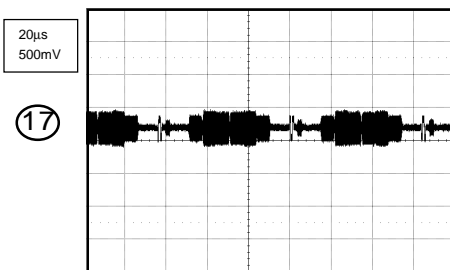
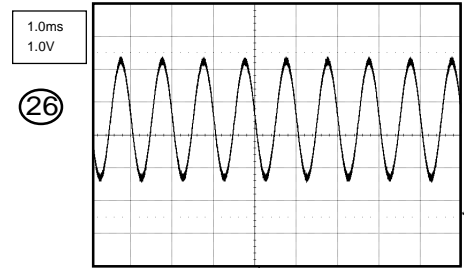
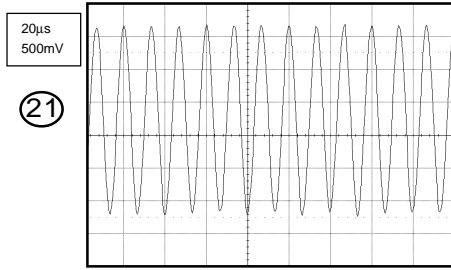
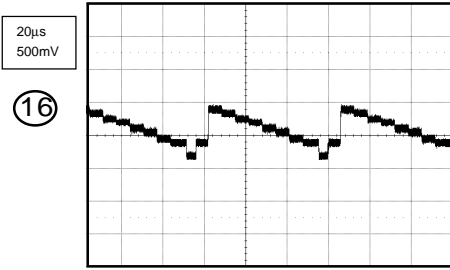


SCALER

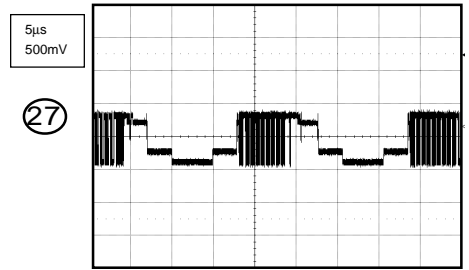


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

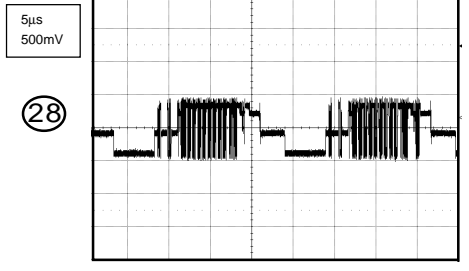
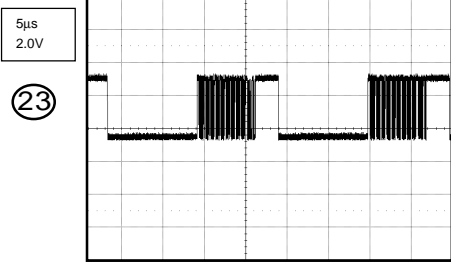
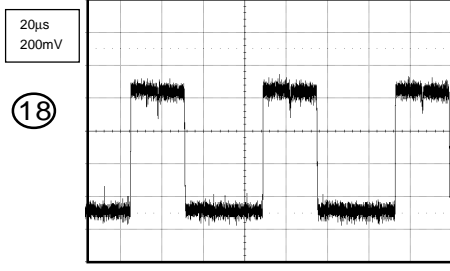
WAVEFORMS



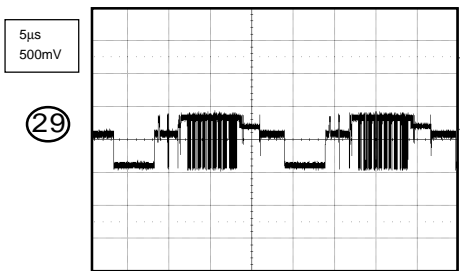
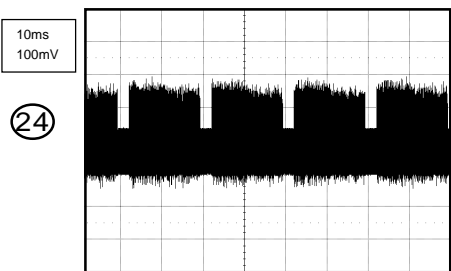
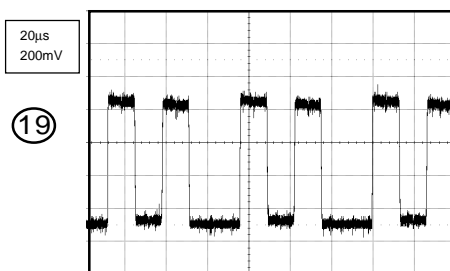
ADC



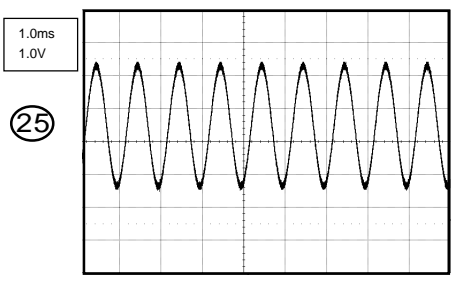
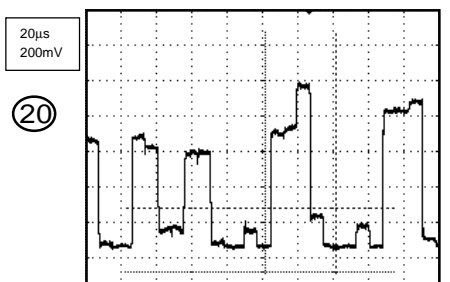
ADC



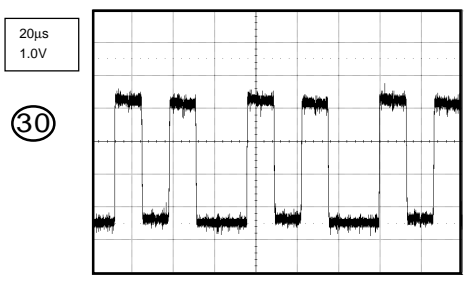
LVDS



JACK

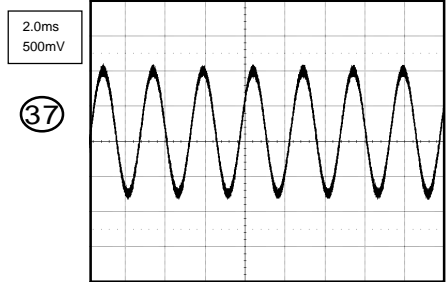
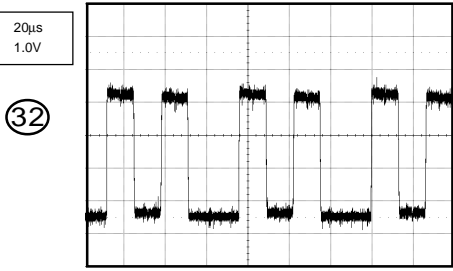
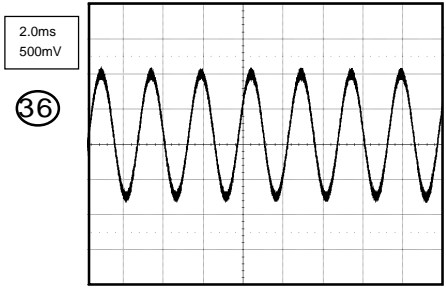
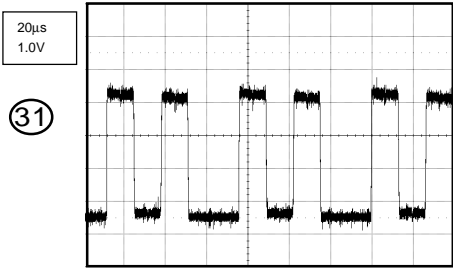


INTERFACE_HDMI IC

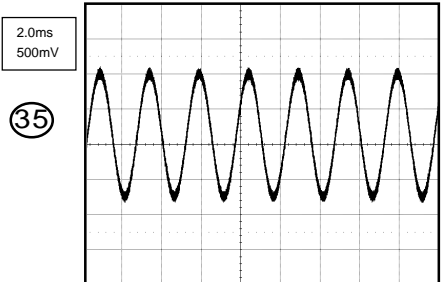
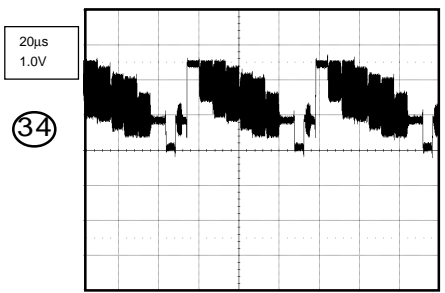
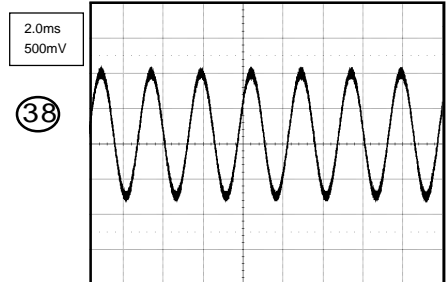
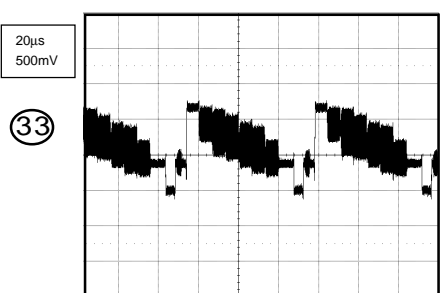


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

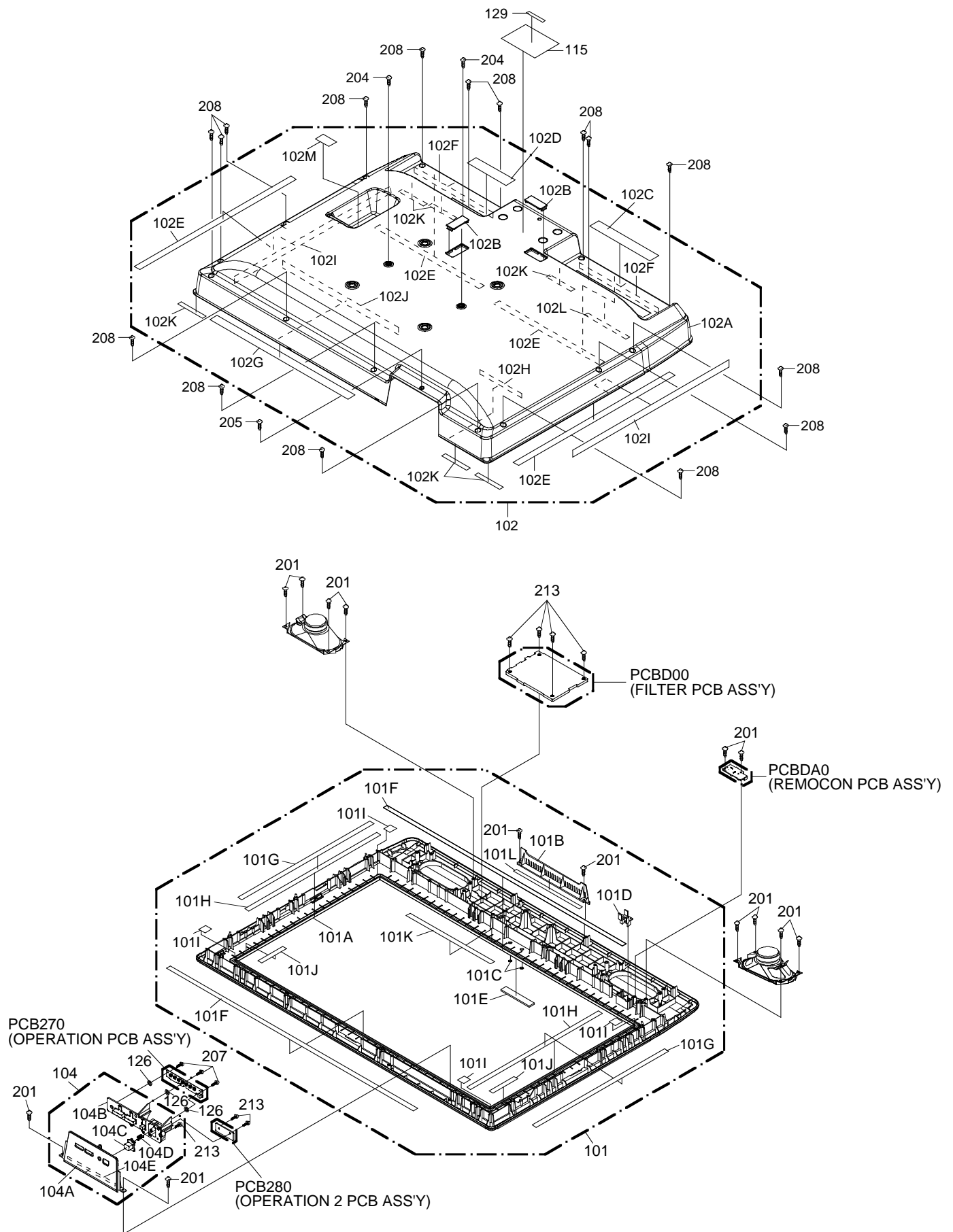


21PIN

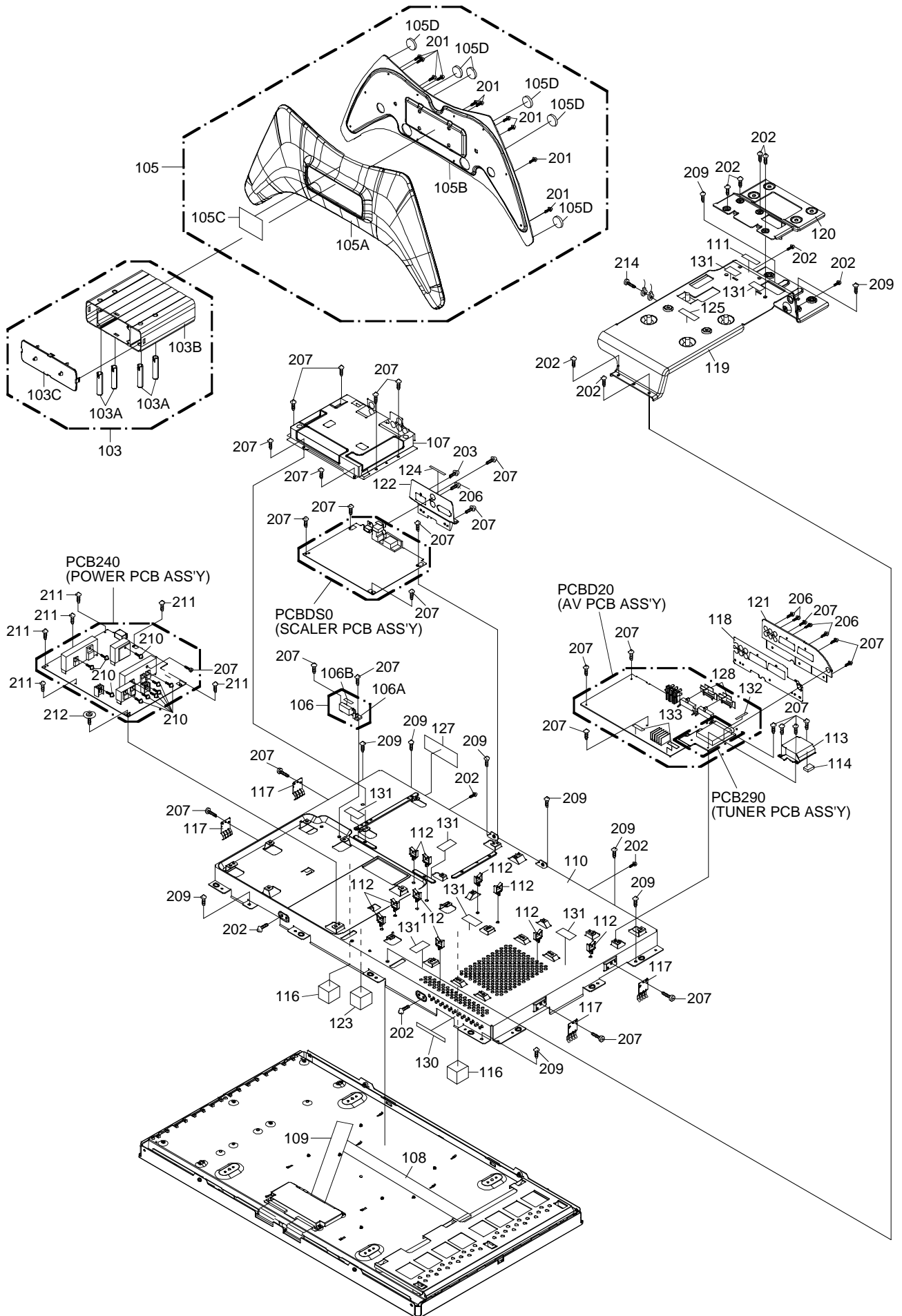


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

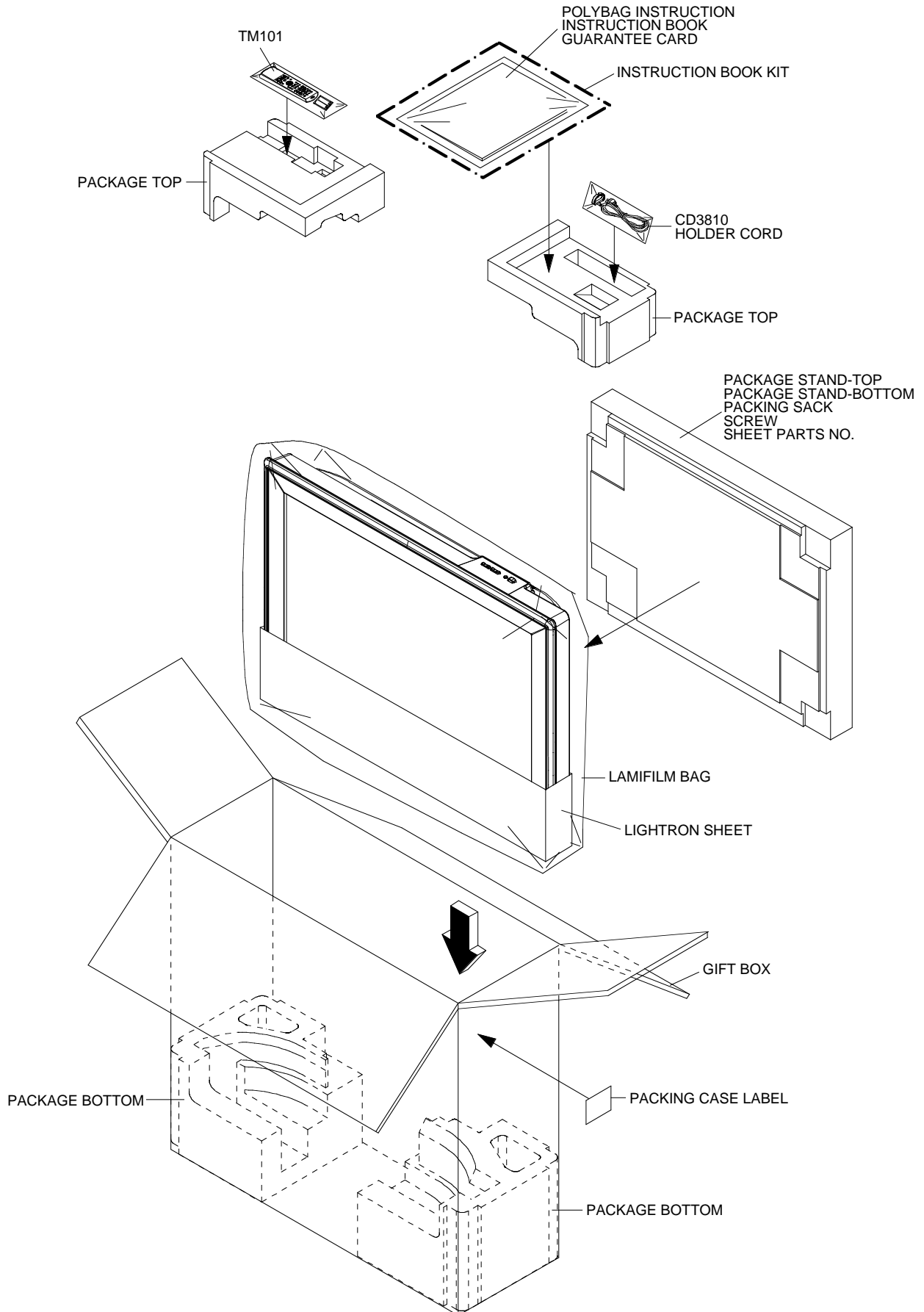
MECHANICAL EXPLODED VIEW



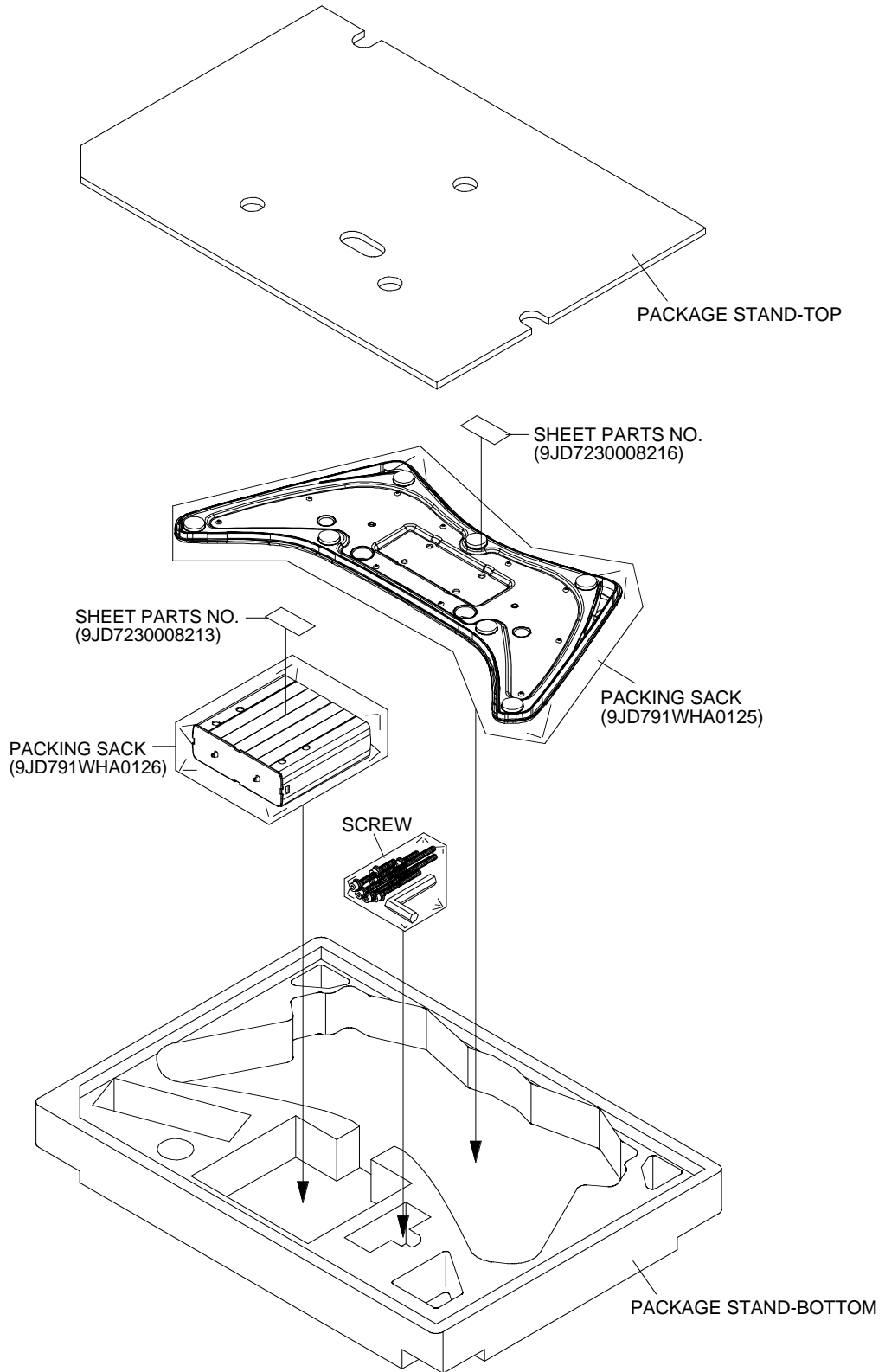
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
101	9JD7A701A804A	FRONT CABI ASS'Y	
101A	9JD701WPJD360	CABINET FRONT	
101B	9JD702WPB0109	COVER STAND	
101C	9JD83SPN2000W	PUSH NUT	
101D	9JD713WPA0394	GLASS LED	
101E	9JD7235270018	BADGE BRAND	
101F	9JD800WQ0A124	FELT SHEET	18x600xT1.0
101G	9JD800WQ0A125	FELT SHEET	18x310xT1.0
101H	9JD800WQ0A127	FELT SHEET	18x310xT0.5
101I	9JD800WQ0A128	FELT SHEET	25x25xT0.5
101J	9JD800WQ0A041	FELT SHEET	
101K	9JD800WQ00118	FELT,SHEET	
101L	9JD800WQ0A142	FELT SHEET	
102	9JD7A702A239A	BACK CABI ASS'Y	
102A	9JD702WPAB013	CABINET BACK	
102B	9JD706WPB0009	COVER CONNECTOR	
102C	9JD723000D423	SHEET JACK-1	
102D	9JD723000D417	SHEET JACK-2	
102E	9JD800WQ0A091	FELT,SHEET	
102F	9JD800WQ0A049	FELT SHEET	
102G	9JD800WQ0A092	FELT SHEET	
102H	9JD800WQ00095	FELT SHEET	
102I	9JD800WQ00103	FELT SHEET	9x250xT0.3
102J	9JD800WQ00112	FELT SHEET	9x390xT0.3
102K	9JD800WQ0A143	FELT SHEET	
102L	9JD800WQ0A113	FELT,SHEET	
102M	9JD723000D447	SHEET AC INLET	
103	9JD7A7640004B	FRAME STAND ASS'Y	
103A	9JD701WPA1423	HOLDER STAND	
103B	9JD761WEB0004	FRAME STAND	
103C	9JD761WPA0436	COVER STAND FRAME	
104	9JD7A711A008A	PLATE BUTTON ASS'Y	
104A	9JD711WPJA044	PLATE BUTTON	
104B	9JD735WPBB573	BUTTON FRAME	
104C	9JD735WPBB574	BUTTON POWER	
104D	9JD743WKA0056	SPRING BUTTON	
104E	9JD800WQ0A082	FELT SHEET	
105	9JD7A7040015C	STAND ASS'Y	
105A	9JD704WPAA042	STAND	
105B	9JD761WSB0039	ANGLE STAND	
105C	9JD7290000172	SHEET CAUTION	
105D	9JD800WFA0063	CUSHION LEG	
106	9JD7A771A001A	HOLDER AC-INELT ASS'Y	
106A	9JD771WPA0343	HOLDER AC-INLET	
106B	9JD800WQ0A060	FELT,SHEET	
107	9JD752WSA0575	SHIELD SCALER	
108	9JD753WEA0034	SHEET,CU	
109	9JD753WEA0035	SHEET CU	
110	9JD761WSAA064	COVER LCD	
111	9JD800WQ0A102	FELT,SHEET	
112	9JD899CH16000	HOLDER WIRE	
113	9JD752WSA0621	SHIELD TUNER	
114	9JD8965TS1020	CUSHION W20/H10/L20	
115	9JD722527A029	SHEET RATING	
116	9JD8965TS302A	CUSHION W20/H30/L20	
117	9JD744WUA0022	SPRING EARTH	
118	9JD752WSA0615	SHIELD JACK	
119	9JD761WSA0356	ANGLE BACK-1	
120	9JD761WSA0357	ANGLE BACK-2	
121	9JD771WPA0373	PLATE JACK-1	
122	9JD771WPA0378	PLATE JACK-2	
123	9JD8965TS202A	CUSHION 65TS20-20	20x15x12
124	9JD800WQ0A129	FELT SHEET	
125	9JD800WQ0A144	FELT SHEET	
126	9JD800WB00004	FIBER WASHER	7x3.2xT0.5
127	9JD890MP2401E	TAPE	50x12
128	9JD761WSA0212	SHIELD 21PIN	
129	9JD722000A525	SHEET SERIAL	

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
130	9JD7240001125	SHEET PC	
131	9JD800WQ0A100	FELT,SHEET	
132	9JD800WQ0A143	FELT SHEET	
133	9JD800WQ0A060	FELT,SHEET	
201	9JD8110630A0U	SCREW TAP TITE(P) BRAZIER	3x10
202	9JD810A14080U	SCREW WASHER(A)	M4x8
203	9JD810213080S	SCREW PAN	M3x8
204	9JD810223080S	SCREW BIND	M3x8
205	9JD8110630A0S	SCREW TAP TITE(P) BRAZIER	3x10
206	9JD810923080S	SCREW TAP TITE(B) BIND	3x8
207	9JD810923080U	SCREW TAP TITE(B) BIND	3x8
208	9JD8110230A4S	SCREW TAP TITE(P) BIND	3x14
209	9JD8117540A2U	SCREW TAPPING(B0) TRUSS	4x12
210	9JD8109I30A0U	SCREW TAP TITE(B) WH7	3x10
211	9JD8109D30A0U	SCREW TAP TITE(B) WH8	3x10
212	9JD8168130A0U	SCREW TAP TITE (B) WASHER16	3x10
213	9JD811063080U	SCREW TAP TITE(P) BRAZIER	3x8
214	9JD810A13080U	SCREW WASHER(A)	M3x8
---	9JD7230008213	SHEET PARTS NO.	
---	9JD7230008216	SHEET PARTS NO.	
---	9JD723527A039	PACKING CASE LABEL	
---	9JD774WPA0010	HOLDER CORD	
---	9JD791WHA0125	PACKING SACK	
---	9JD791WHA0126	PACKING SACK	
---	9JD791WHA0130	LAMIFILM BAG	
---	9JD791WHA0138	LIGHTRON SHEET	
---	9JD792WHA0660	PACKAGE STAND-TOP	
---	9JD792WHA0661	PACKAGE STAND-BOTTOM	
---	9JD792WHA0662	PACKAGE TOP	
---	9JD792WHA0663	PACKAGE BOTTOM	
---	9JD793WCDD303	GIFT BOX	
---	9JD89001122A0	SCREW	or
---	9JD890CDAIA24	SCREW	
---	9JDA3Y607C975	INSTRUCTION BOOK KIT	
---	9JDJ3Y60701A	INSTRUCTION BOOK	
---	9JDJ3Y70702A	GUARANTEE CARD	
---	9JDA4ND200	POLYBAG INSTRUCTION(REDCAUTION)	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	
REMOCON PCB ASS'Y				
*** PCB ***				
PCBDA0	9JDA3Y402GDA0	REMOCON PCB ASS'Y	CEF215A	
*** DIODES ***				
D544	9JD0021E9Q010	LED	LTL-1BEFJ-002A	
*** CONNECTORS ***				
CP2201	9JD069S250639	CONNECTOR PCB SIDE	A2001WR2-5P	
*** OTHERS ***				
OS2200	9JD077A033001	REMOTE RECEIVER	ROM-V338TAO	
SCALER PCB ASS'Y				
*** PCB ***				
PCBDS0	9JDA3Y402GDS0	SCALER PCB ASS'Y	CEF170A	
*** DIODES ***				
D101	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D105	9JDDD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D109	9JDDD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D802	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D803	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D805	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D807	9JDDD7R0S3550	DIODE,SILICON	1SS355 TE-17	
D808	9JDDD7R0S3550	DIODE,SILICON	1SS355 TE-17	
D809	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D3206	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3206	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D3207	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3207	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D3209	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3600	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3600	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D3601	9JDDD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3602	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D3603	9JDDD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3606	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3606	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D3609	9JDDE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3613	9JDDE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D4301	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D4302	9JDDE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
*** ICS ***				
IC101	9JDS3Y402GM01	MEMORY DATA	OEC7166A	
IC102	9JDI9UF032290	IC	PST3229NR	
IC103	9JDS3Y402GE01	MEMORY DATA	AT24C256BN-10SU-1.8	or
IC103	9JDICR.J0256N0	IC	AT24C256N-10SU-2.7	
IC104	9JDS3Y402GE02	MEMORY DATA	AT24C256BN-10SU-1.8	or
IC104	9JDICR.J0256N0	IC	AT24C256N-10SU-2.7	
IC801	9JDI56K07A720	IC	R8J66607A72FP	
IC2101	9JDIFSK0883C0	IC	MST9883C-LF-110	
△ IC3201	9JDI07F0C0WF0	IC	BA00BC0WFP-E2	
△ IC3202	9JDI07F078200	IC	BD7820FP-E2	
IC3600	9JDI07F078200	IC	BD7820FP-E2	
IC3601	9JDICR.J002BN0	IC	AT24C02BN-10SU-1.8	or
IC3601	9JDI57J0L02F0	IC	BR24L02F-WE2	
IC3602	9JDI07F0C0WF0	IC	BA00BC0WFP-E2	

IC3603	9JDIG1F090110	IC	SI19011CLU
IC3605	9JDIG4F020210	IC	CM2021-00TR
IC3608	9JDI57J0L32F0	IC	BR24L32F-WE2
IC3611	9JDICMF089E50	IC	SST89E58RD2-40-C-TQJE
IC7201	9JDIF8F0385A0	IC	ICSV385AGLFT
IC8103	9JDI0UF015010	IC	MM1501XNRE
IC8104	9JDI0QF025840	IC	NJM2584AM(TE1)

*** TRANSISTORS ***

Q101	9JDTNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK	
Q104	9JDT2AA5132E0	FET	KTK5132E-RTK/P	
Q105	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK	
Q106	9JDT2AA5132E0	FET	KTK5132E-RTK/P	
Q801	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
Q801	9JDT8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q802	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
Q802	9JDT8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q2101	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	
△ Q3205	9JDTAAA01664Y	TRANSISTOR,SILICON	KTA1664-Y-RTF/P	
Q3206	9JDTNAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q3209	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3210	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3600	9JDT2AA5132E0	FET	KTK5132E-RTK/P	
Q3605	9JDT2AA5132E0	FET	KTK5132E-RTK/P	
Q3606	9JDT2AA5132E0	FET	KTK5132E-RTK/P	
Q4302	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q4305	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q8101	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	
Q8102	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q8103	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q8105	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	
Q8106	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	

*** COILS ***

B801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B801	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B802	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B803	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B804	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B805	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B2101	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B3201	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3201	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3202	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3202	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3203	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3203	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3206	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3206	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3207	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3207	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3208	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3208	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3209	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B3209	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B3601	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3602	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3603	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3604	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3605	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3606	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02	
B3610	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B3612	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02	
B3614	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B3615	9JD024HC51513	CORE,BEADS	FCM1608KF-151T06	
B4303	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	or
B4303	9JD024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4304	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	or
B4304	9JD024AC5600E	CORE,BEADS	BLM18BB600SN1D	

B4305	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	or
B4305	9JD024AC5600E	CORE,BEADS	BLM18BB600SN1D	
B4307	9JD024NC51021	CORE,BEADS	EBMS160808A102_RDC45	or
B4307	9JD0246C51024	CORE,BEADS	MMZ1608R102CT	
B4308	9JD024NC51021	CORE,BEADS	EBMS160808A102_RDC45	or
B4308	9JD0246C51024	CORE,BEADS	MMZ1608R102CT	
B7201	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	

L2101	9JD0216S8220K	COIL	F 22 UH
L2102	9JD0216S8220K	COIL	F 22 UH
L2103	9JD0216S8470K	COIL	F 47 UH
L2106	9JD0216S42R2J	COIL	2.2 UH
L2107	9JD0216S8220K	COIL	F 22 UH
L4306	9JD0216S8220K	COIL	F 22 UH
L7201	9JD0216S8470K	COIL	F 47 UH
L7202	9JD0216S8470K	COIL	F 47 UH
L7203	9JD0216S8470K	COIL	F 47 UH
L8102	9JD0216S8470K	COIL	F 47 UH
L8104	9JD0216S8470K	COIL	F 47 UH
L8105	9JD0216S8220K	COIL	F 22 UH

*** JACKS ***

J4301	9JD060J431025	RCA JACK	MSD-242VA1-03_NI_FE_LF
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*** CONNECTORS ***

CP101	9JD069S250629	CONNECTOR PCB SIDE	A2001WV2-5P	
CP102	9JD069S2A0629	CONNECTOR PCB SIDE	A2001WV2-10P	
CP103	9JD069S270629	CONNECTOR PCB SIDE	A2001WV2-7P	
CP802	9JD069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+	
CP803	9JD069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+	
CP2200	9JD069S230629	CONNECTOR PCB SIDE	A2001WV2-3P	
CP3201	9JD069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P	
CP3601	9JD0694YJ3018	CONNECTOR PCB SIDE	1903015-3	or
CP3601	9JD069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA	
CP3602	9JD069S240629	CONNECTOR PCB SIDE	A2001WV2-4P	
CP3604	9JD069S290629	CONNECTOR PCB SIDE	A2001WV2-9P	
CP4302	9JD0694S15017	CONNECTOR PCB SIDE	1-1734344-1	
CP7203	9JD069HVWT04A	CONNECTOR PCB SIDE	FI-X30S-HF-NPB	

*** CRYSTAL & CERAMIC OSCILLATORS ***

X101	9JD100GT01615	CRYSTAL	B16000E007	or
X101	9JD100WT01611	CRYSTAL	HC-49/U-S	
X801	9JD100YT05401	CRYSTAL	FCX-03	
X3601	9JD100GT01102	CRYSTAL	B11059C002	or
X3601	9JD100CT01101	CRYSTAL	HC-49/U-S	
X3602	9JD100DT02801	CRYSTAL	SMD-49	

*** NETWORKS ***

NR801	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E
NR802	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR803	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR804	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR805	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR806	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR807	9JD110P4470M4	R,NETWORK	4D03WVGJ0470T5E
NR808	9JD110P4103M4	R,NETWORK	4D03WVGJ0103T5E
NR809	9JD110P4103M4	R,NETWORK	4D03WVGJ0103T5E
NR2101	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR2102	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR2103	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR2104	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR2105	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR2106	9JD110P4101M4	R,NETWORK	4D03WVGJ0101T5E
NR3601	9JD110P4330M4	R,NETWORK	4D03WVGJ0330T5E
NR3602	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E
NR3604	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E
NR3605	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E
NR3606	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E
NR3607	9JD110P4000M4	R,NETWORK	4D03WVGJ0000T5E

NR3608	9JD110P4000M4	R,NETWORK	4D03WGJ0000T5E	
NR7201	9JD110P4470M4	R,NETWORK	4D03WGJ0470T5E	
NR7202	9JD110P4470M4	R,NETWORK	4D03WGJ0470T5E	
*** OTHERS ***				
SH4301	9JD126R000038	TERMINAL PIN	TP00370-21	
SH4302	9JD126R000038	TERMINAL PIN	TP00370-21	
SH4303	9JD126R000038	TERMINAL PIN	TP00370-21	
FILTER PCB ASS'Y				
*** PCB ***				
PCBD00	9JDA3Y402GD00	FILTER PCB ASS'Y	CEF217A	
*** COILS ***				
△ L511	9JD02DM000100	COIL,CHOKE	DM000100	
TR515	9JD02AHB9A972	CORE,FERRITE	W5T29X7.5X19	
*** CONNECTORS ***				
CD515	9JD06CUU24601	CORD,CONNECTOR	CUU24601	
AV PCB ASS'Y				
*** PCB ***				
PCBD20	9JDA3Y402GD20	AV PCB ASS'Y	CMF092A	
*** CAPACITORS ***				
C340	9JDE61FF3821D	CE	820 UF 25V	
C342	9JDE61FF3821D	CE	820 UF 25V	
C3810	9JDE61FF2102D	CE	1000 UF 16V	
C3825	9JDE61FF3821D	CE	820 UF 25V	
*** DIODES ***				
D302	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D302	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D303	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D303	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D304	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D304	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D305	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D305	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D901	9JDD9WU05R62B	DIODE,ZENER	MTZJ5.6B-EIC	or
D901	9JDD97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D3801	9JDD1VT001330	DIODE,SILICON	1SS133T-77	
D3802	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D3802	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D3804	9JDD4AT01H3E0	DIODE,RECTIFIER	1H3-E	
D3805	9JDD4AT01H3E0	DIODE,RECTIFIER	1H3-E	
D4200	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4201	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4202	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4203	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4204	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4205	9JDD9WU04R72B	DIODE,ZENER	MTZJ4.7B-EIC	or
D4205	9JDD97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4206	9JDD9WU04R72B	DIODE,ZENER	MTZJ4.7B-EIC	or
D4206	9JDD97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4207	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4208	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4209	9JDD1VT001330	DIODE,SILICON	1SS133T-77	
D4210	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4213	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4215	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4216	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4217	9JDD97U01201B	DIODE,ZENER	MTZJ12B T-77	

D4218	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4219	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4220	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4223	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4224	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4226	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4228	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177
D4230	9JDDE7RB1202B	DIODE,ZENER	UDZS12B TE-177

*** ICS ***

IC301	9JDI1MFPA2020	IC	TA2024-ASE
IC901	9JDI0UF015010	IC	MM1501XNRE
IC902	9JDI0UF015010	IC	MM1501XNRE
IC904	9JDI19FF44100	IC	MSP4410G-QA-C13
IC3801	9JDI1LF010150	IC	AL1015
IC3804	9JDI0GA9XF010	IC	PQ070XF01SZH
IC3805	9JDI03D979950	IC	LA7995M-TLM
IC4200	9JDI0QF025840	IC	NJM2584AM(TE1)
IC4201	9JDI01F05853B	IC	AN15853B-E1
IC4203	9JDI0UF015010	IC	MM1501XNRE

*** TRANSISTORS ***

Q300	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q301	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q302	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q901	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q902	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q3813	9JDTJ7M50P030	FET	RSS050P03_TB
Q4203	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4205	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4206	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4208	9JDT2AA5132E0	FET	KTK5132E-RTK/P
Q4210	9JDT2AA5132E0	FET	KTK5132E-RTK/P
Q4211	9JDT67J048TL0	TRANSISTOR,SILICON	2SA2048TL
Q4212	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4213	9JDT67J048TL0	TRANSISTOR,SILICON	2SA2048TL
Q4214	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q4215	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4216	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4217	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4218	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4219	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4221	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK
Q4223	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q4224	9JDTNAA05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4229	9JDTNAA05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4231	9JDTNAA05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4233	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK

*** COILS ***

B301	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0	
B302	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0	
B303	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0	
B304	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0	
B904	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02	
B906	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02	
B3801	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20	or
B3801	9JD024BC5121J	CORE,BEADS	BLM18PG121SN1D	
B3802	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20	or
B3802	9JD024BC5121J	CORE,BEADS	BLM18PG121SN1D	
B4200	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B4203	9JD024HT03553	CORE,BEADS	W5RH3.5X5X1.0	
B4204	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02	
B4205	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02	
B4206	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B4207	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B4208	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06	
B6003	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20	or
B6003	9JD024BC5121J	CORE,BEADS	BLM18PG121SN1D	

L300	9JD021W0G100M	COIL	10 UH
L301	9JD021W0G100M	COIL	10 UH
L302	9JD021W0G100M	COIL	10 UH
L303	9JD021W0G100M	COIL	10 UH
L901	9JD02167F100J	COIL	10 UH
L902	9JD02167F270J	COIL	27 UH
L903	9JD02167F100J	COIL	10 UH
L904	9JD02167F100J	COIL	10 UH
L3801	9JD02167E220K	COIL	R7 22 UH
L3802	9JD02167E220K	COIL	R7 22 UH
L3803	9JD02167E220K	COIL	R7 22 UH
L3804	9JD02167E220K	COIL	R7 22 UH
L3805	9JD0214646R8M	COIL	6.8 UH
L3806	9JD021404150M	COIL	50A 15 UH
L3809	9JD0214646R8M	COIL	6.8 UH
L3810	9JD02167E100K	COIL	R6-1 10 UH
L3811	9JD02167E220K	COIL	R7 22 UH
L4200	9JD02167F221J	COIL	220 UH
L4202	9JD02167F470J	COIL	47 UH
L4203	9JD02167F470J	COIL	47 UH
L4206	9JD02167F470J	COIL	47 UH
L4207	9JD02167F470J	COIL	47 UH
L4211	9JD021LA6220J	COIL	22 UH
L4212	9JD021LA6220J	COIL	22 UH
L4213	9JD021LA6220J	COIL	22 UH
L4214	9JD021LA6220J	COIL	22 UH
L4219	9JD02167F100J	COIL	10 UH
L4220	9JD02167F100J	COIL	10 UH
L4224	9JD02167F100J	COIL	10 UH
L4225	9JD02167F470J	COIL	47 UH
L4226	9JD02167F470J	COIL	47 UH

*** JACKS ***

J4200	9JD060K431024	RCA JACK	AV6-57A03-03H
J4204	9JD063D100050	SOCKET,21PIN	MRC-021V-07_A
J4205	9JD063D100050	SOCKET,21PIN	MRC-021V-07_A

*** CONNECTORS ***

CP301	9JD069S130419	CONNECTOR PCB SIDE	A2502WV2-3P
CP303	9JD069S120419	CONNECTOR PCB SIDE	A2502WV2-2P
CP901	9JD069S240629	CONNECTOR PCB SIDE	A2001WV2-4P
CP3801	9JD069S140019	CONNECTOR PCB SIDE	A2501WV2-4P
CP3802	9JD069S120019	CONNECTOR PCB SIDE	A2501WV2-2P
CP3803	9JD069S1C0019	CONNECTOR PCB SIDE	A2501WV2-12P
CP3804	9JD069S170019	CONNECTOR PCB SIDE	A2501WV2-7P
CP3807	9JD069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP4202	9JD069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP4203	9JD069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+
CP4204	9JD069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+
CP4207	9JD069S220629	CONNECTOR PCB SIDE	A2001WV2-2P
CP6001	9JD06CK7D0301	CORD,CONNECTOR	TWG-P13P-A1

*** CRYSTAL & CERAMIC OSCILLATORS ***

X901	9JD100GT01806	CRYSTAL	B18432E005	or
X901	9JD100CT01803	CRYSTAL	HC-49/U-S	

*** OTHERS ***

SH4201	9JD126R000038	TERMINAL PIN	TP00370-21
SH4202	9JD126R000038	TERMINAL PIN	TP00370-21
SH4203	9JD126R000038	TERMINAL PIN	TP00370-21
SH4204	9JD126R000038	TERMINAL PIN	TP00370-21

POWER PCB ASS'Y

*** PCB ***

PCB240	9JDA3Y402G240	POWER PCB ASS'Y	CEF213A
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*** RESISTORS ***

△ R507	9JDR31X1155J	RC	1.5M OHM 1W
△ R524	9JDR3X181R56J	R,METAL OXIDE	0.56 OHM 1W
△ R527	9JDR3X181R47J	R,METAL OXIDE	0.47 OHM 1W
△ R529	9JDR63881R22J	R,FUSE	0.22 OHM 1W
△ R530	9JDR3X181R56J	R,METAL OXIDE	0.56 OHM 1W
△ R532	9JDR63884101J	R,FUSE	100 OHM 1/4W
△ R534	9JDR3X18A104J	R,METAL OXIDE	100K OHM 2W
△ R535	9JDR63884101J	R,FUSE	100 OHM 1/4W
△ R537	9JDR3X18A104J	R,METAL OXIDE	100K OHM 2W
△ R544	9JDR63884101J	R,FUSE	100 OHM 1/4W
△ R600	9JDR5X2AE010J	R,CEMENT PRZA-1W 7W	1R0J 1 OHM 7W
△ R602	9JDR63881R22J	R,FUSE	0.22 OHM 1W

*** CAPACITORS ***

△ C503	9JDP2122B224M	CMP	0.22 UF 275V ECQUL
△ C506	9JDCD39B0ML2K	CC	330 PF 250V
△ C507	9JDP2122B104M	CMP	0.1 UF 275V ECQUL
△ C509	9JDP2122B224M	CMP	0.22 UF 275V ECQUL
C510	9JDE52DHH151M	CE	5 150 UF 400V
△ C511	9JDE62QFH470M	CE	47 UF 400V
C513	9JDC03L0R7H3K	CC	0.0022UF 2KV R
C515	9JDC03L0R7U2K	CC	680 PF 2KV R
C521	9JDC03L0R7U2K	CC	680 PF 2KV R
C523	9JDP411F4393J	CMPP	0.039 UF 400V ECWF
△ C527	9JDP411F4393J	CMPP	0.039 UF 400V ECWF
△ C528	9JDC03L0R7Q2K	CC	470 PF 2KV R
△ C529	9JDCD39E0M13M	CC	0.001 UF 250V
C531	9JDC03L0R7H2K	CC	220 PF 2KV R
C532	9JDC03L0R7H2K	CC	220 PF 2KV R
△ C535	9JDE61FF3102D	CE	1000 UF 25V
C536	9JDC03L0R7H2K	CC	220 PF 2KV R
△ C537	9JDE61FF1222D	CE	2200 UF 10V
△ C539	9JDE61FF4122D	CE	1200 UF 35V
△ C540	9JDE61FF3102D	CE	1000 UF 25V
△ C541	9JDE02LU2101M	CE	100 UF 16V
△ C542	9JDE61FF4122D	CE	1200 UF 35V
△ C543	9JDE61FF2102D	CE	1000 UF 16V
△ C545	9JDE61FF2102D	CE	1000 UF 16V
△ C547	9JDE5EZU2221M	CE	220 UF 16V
△ C548	9JDE5EZU2221M	CE	220 UF 16V
△ C549	9JDE61FF4122D	CE	1200 UF 35V
△ C558	9JDE02LU2101M	CE	100 UF 16V
△ C560	9JDE61FT2681D	CE	680 UF 16V
△ C583	9JDE62QFH470M	CE	47 UF 400V

*** DIODES ***

D501	9JDD4AT01H3E0	DIODE,RECTIFIER	1H3-E
D502	9JDD2LXSR2900	DIODE,SCHOTTKY	SR290-F
△ D503	9JDD6C047110A	DIODE,VARISTA	ENE471D-10A
D506	9JDD9WU02R22B	DIODE,ZENER	MTZJ2.2B-EIC
△ D507	9JDD2Z05SB800	DIODE,BRIDGE	D5SB80
△ D508	9JDD2WTRM11C0	DIODE,SILICON	RM11C-EIC
△ D509	9JDD2WTRM11C0	DIODE,SILICON	RM11C-EIC
△ D510	9JDD2WTRM11C0	DIODE,SILICON	RM11C-EIC
△ D511	9JDD2WTRM11C0	DIODE,SILICON	RM11C-EIC
D512	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D513	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D514	9JDD9WU04R72B	DIODE,ZENER	MTZJ4.7B-EIC
D515	9JDD9WU06R22B	DIODE,ZENER	MTZJ6.2B-EIC
D516	9JDD1VT001330	DIODE,SILICON	1SS133T-77
△ D517	9JDD9WU06R22B	DIODE,ZENER	MTZJ6.2B-EIC
D518	9JDD2BE0RU3B0	DIODE,SILICON	RU3B LF-A5
D519	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D520	9JDD2BXARS010	DIODE,SILICON	SARS01-V1
D521	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D522	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D523	9JDD4AT01H3E0	DIODE,RECTIFIER	1H3-E
D524	9JDD4AT01H3E0	DIODE,RECTIFIER	1H3-E
D525	9JDD1VT001330	DIODE,SILICON	1SS133T-77

D526	9JDD1VT001330	DIODE,SILICON	1SS133T-77	
D527	9JDD1VT001330	DIODE,SILICON	1SS133T-77	
△ D528	9JDD2BAMX22S0	DIODE,SCHOTTKY	FMX-22S	
D529	9JDD4AT01H3E0	DIODE RECTIFIER	1H3-E	
△ D530	9JDD2BAMX22S0	DIODE,SCHOTTKY	FMX-22S	
△ D531	9JDD2BAMX22S0	DIODE,SCHOTTKY	FMX-22S	
△ D532	9JDD27A85T400	DIODE,SCHOTTKY	RB085T-40	
△ D533	9JDD2CA2C15R0	DIODE,SCHOTTKY BARRIER	YG862C15R	
D534	9JDD9WU02202B	DIODE,ZENER	MTZJ22B-EIC	
D535	9JDD2LXSR2900	DIODE,SCHOTTKY	SR290-F	
D538	9JDD7R0S3550	DIODE,SILICON	1SS355 TE-17	
D539	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	
D540	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	or
D540	9JDD28R1QS040	DIODE	EC31QS04-TE12L	
D545	9JDD2WXN40050	DIODE,SILICON	1N4005-EIC	
D546	9JDD4CRSK34A0	DIODE,SCHOTTKY	SK34A	
△ D547	9JDD2WXN40050	DIODE,SILICON	1N4005-EIC	
△ D548	9JDD2WXN40050	DIODE,SILICON	1N4005-EIC	

*** ICS ***

△ IC501	9JDI1KJ9A431A	IC	KIA431A-AT	
△ IC502	9JDI0BT067680	IC	STR-X6768N	
△ IC503	9JDI2BT067650	IC	STR-W6765	
△ IC504	9JDI1KJ9A431A	IC	KIA431A-AT	
△ IC505	9JDI07A078100	IC	BA7810T-V5	
△ IC506	9JDI07T0BC0W0	IC	BA00BC0WCP-V5E2	
△ IC508	9JDI03T057740	IC	LA5774-E	
△ IC510	9JDI0GA9090R0	IC	PQ090RDA1SZH	
△ IC511	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	
△ IC512	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	

*** TRANSISTORS ***

Q501	9JDTCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)	
Q502	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SR TK	
Q503	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	
Q504	9JDTJ7M50P030	FET	RSS050P03_TB	
Q505	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SR TK	
Q508	9JDTAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	
Q511	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q513	9JDTCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q514	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SR TK	

*** COILS ***

B501	9JD024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2	
B502	9JD024HT03564	CORE,BEADS	W4BRH3.5X6X1.0	
B506	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B506	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
B507	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20	or
B507	9JD024AC5181J	CORE,BEADS	BLM18PG181SN1D	
L501	9JD02167E220K	COIL	R7 22 UH	
L502	9JD02186I6R8L	COIL	6.8 UH	
△ L503	9JD02186I6R8L	COIL	6.8 UH	
L504	9JD021W0G330M	COIL	33 UH	
△ L506	9JD029X000135	COIL,LINE FILTER	SS30V-R150270	
△ L507	9JD029X000135	COIL,LINE FILTER	SS30V-R150270	

*** TRANSFORMERS ***

△ T501	9JD0481351054	TRANSFORMER,SWITCHING	81351054	
△ T502	9JD0481420844	TRANSFORMER,SWITCHING	81420844	

*** JACKS ***

△ J502	9JD064Q1A0003	JACK,AC	CCT2302-0911	
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*** CONNECTORS ***

CD507	9JD06CD010702	CORD,CONNECTOR	CD010702	
CP505	9JD069D01001A	CONNECTOR PCB SIDE	003P-2100	

CP506	9JD069S2E0629	CONNECTOR PCB SIDE	A2001WV2-14P
CP507	9JD069S170019	CONNECTOR PCB SIDE	A2501WV2-7P
CP510	9JD069S120019	CONNECTOR PCB SIDE	A2501WV2-2P
CP511	9JD069S1C0019	CONNECTOR PCB SIDE	A2501WV2-12P
CP512	9JD069S140019	CONNECTOR PCB SIDE	A2501WV2-4P
CP513	9JD069D01001A	CONNECTOR PCB SIDE	003P-2100
CP514	9JD069D01001A	CONNECTOR PCB SIDE	003P-2100
CP515	9JD069432001A	CONNECTOR PCB SIDE	3-176976-1
*** FUSES ***			
△ F501	9JD080NT05004	FUSE	50T050H
FH501	9JD06710T0009	HOLDER,FUSE	EYF-52BCY
FH502	9JD06710T0009	HOLDER,FUSE	EYF-52BCY
*** RELAYS ***			
△ RY501	9JD0560V50119	RELAY	ALKS329 A60
*** THERMISTOR ***			
△ TH501	9JDDSRFSP3R0L	THERMISTOR	NTPAN3R0LDKBO
*** OTHERS ***			
EL2401	9JD124116281A	EYE LET	XRY16X28BD
EL2402	9JD124120301A	EYE LET	XRY20X30BD
SH501	9JD126R000038	TERMINAL PIN	TP00370-21
SH502	9JD126R000038	TERMINAL PIN	TP00370-21
SH503	9JD126R000038	TERMINAL PIN	TP00370-21
SH504	9JD126R000038	TERMINAL PIN	TP00370-21
OPERATION PCB ASS'Y			
*** PCB ***			
PCB270	9JDA3Y402G270	OPERATION PCB ASS'Y	CEF232A
*** SWITCHES ***			
SW2201	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2202	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2203	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2204	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2206	9JD0504101T34	SWITCH,TACT	EVQ21505R
*** CONNECTORS ***			
CP2203	9JD069S230639	CONNECTOR PCB SIDE	A2001WR2-3P
OPERATION 2 PCB ASS'Y			
*** PCB ***			
PCB280	9JDA3Y402G280	OPERATION 2 PCB ASS'Y	CEF233A
*** SWITCHES ***			
SW2205	9JD0501101016	PUSH SWITCH	ESB31L400
*** CONNECTORS ***			
CP2204	9JD069S220639	CONNECTOR PCB SIDE	A2001WR2-2P
TUNER PCB ASS'Y			
*** PCB ***			
PCB290	9JDA3Y402G290	TUNER PCB ASS'Y	CEF221A

*** COILS ***

B6002 9JD024HC56013 CORE,BEADS FCM1608KF-601T02

*** CONNECTORS ***

CP6002 9JD06977DM020 CONNECTOR PCB SIDE 127301113K2

*** TUNER ***

△ TU6001 9JD0163Y03007 RF UNIT TAFV-W322D

AND OTHERS

*** COILS ***

TR301 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR504 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR901 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR902 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR2201 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR3804 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19
 TR3807 9JD02AHB9A972 CORE,FERRITE W5T29X7.5X19

*** CONNECTORS ***

CD301 9JD06CU124002 CORD,CONNECTOR CU124002
 CD303 9JD06CU127601 CORD,CONNECTOR CU127601
 CD505 9JD06CU2E5101 CORD,CONNECTOR CU2E5101
 CD901 9JD06CU246601 CORD,CONNECTOR CU246601
 CD2201 9JD06CU235502 CORD,CONNECTOR CU235502
 CD3801 9JD06CU144706 CORD,CONNECTOR CU144706
 CD3802 9JD06CU123701 CORD,CONNECTOR CU123701
 CD3803 9JD06CU1C4201 CORD,CONNECTOR CU1C4201
 CD3804 9JD06CU173701 CORD,CONNECTOR CU173701
 CD3807 9JD06CU2B5501 CORD,CONNECTOR CU2B5501
 CD4202 9JD06CU256001 CORD,CONNECTOR CU256001
 CD4203 9JD122H0T1401 CORD,JUMPER 2H0T1401
 CD4204 9JD122H0U1401 CORD,JUMPER 2H0U1401
 CD4207 9JD06CH225501 CORD,CONNECTOR CH225501
 CD7204 9JD06CHRU3002 CORD,CONNECTOR CHRU3002

*** AC CORD ***

△ CD3810 9JD120D159801 CORD,SET AC VM0311-VM0322 1.8M

*** OTHERS ***

BT001 9JD141R003018 BATTERY,MANGAN GR6M
 BT002 9JD141R003018 BATTERY,MANGAN GR6M

△ SP301 9JD0701016002 SPEAKER EAS12D175B
 △ SP302 9JD0701016002 SPEAKER EAS12D175B

TM101 9JD076B0NB010 TRANSMITTER ETR0088-010081(RRMCGA515W)

△ V2301 9JD09E4126003 LCD LK260T3LF12

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

CC..... CERAMIC CAPACITOR
 CE..... ALUMI ELECTROLYTIC CAPACITOR
 CP..... POLYESTER CAPACITOR
 CPP..... POLYPROPYLENE CAPACITOR
 CPL..... PLASTIC CAPACITOR
 CMP..... METAL POLYESTER CAPACITOR
 CMPL..... METAL PLASTIC CAPACITOR
 CMPP..... METAL POLYPROPYLENE CAPACITOR

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