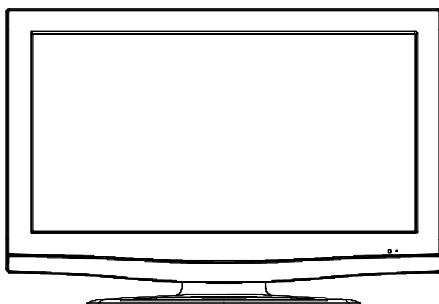




COMBINATION LIQUID CRYSTAL TELEVISION AND DVD/CD PLAYER

MODEL **LC-32DV200E(K)**

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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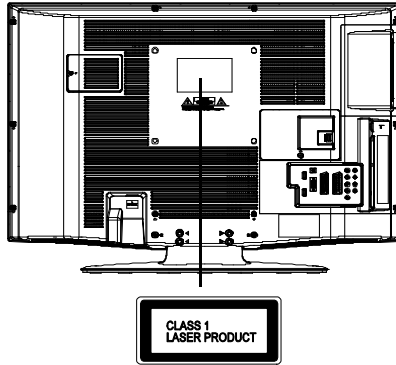
Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

IMPORTANT WARNING

CAUTION:

DVD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE PLAYER.



(Printed on the Rear Panel)

WHEN THIS PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Stand Ass'y, Front Cabinet Ass'y and LCD Panel.
(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)
2. Slide the Gear Middle toward the arrow direction by hand to release the lock. (Refer to Fig. 1)
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

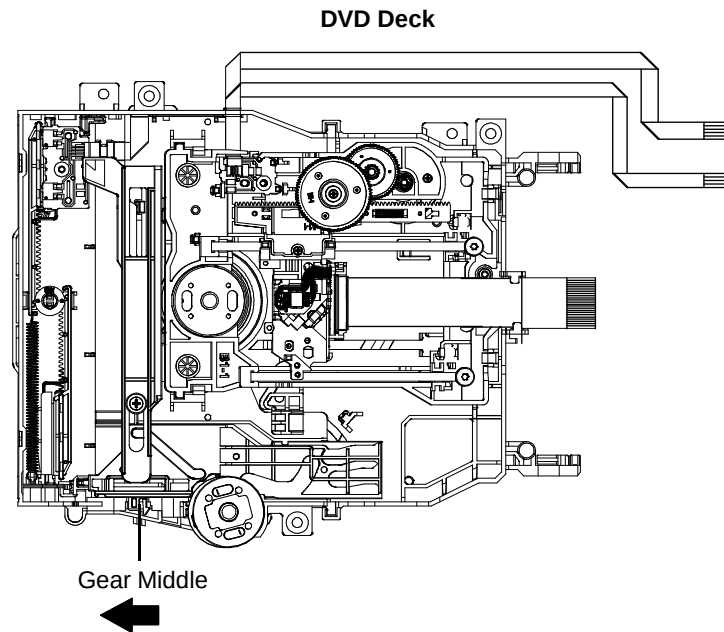


Fig. 1

PARENTAL CONTROL - RATING LEVEL 4 DIGIT PASSWORD CANCELLATION

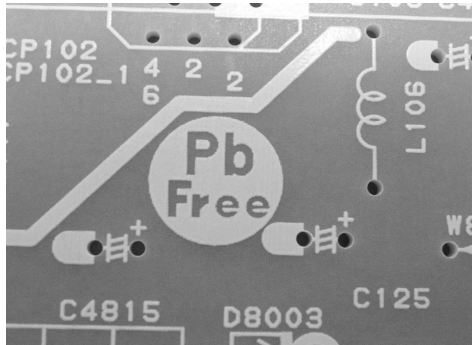
If the stored 4 digit password in the Rating Level menu needs to be cancelled, please follow the steps below.

1. Turn Unit ON.
2. Set the DVD to the Stop Mode.
3. Check that "No disc" is displayed on the screen.
4. Press and hold the "STOP" button on the side panel.
5. Simultaneously press and hold the "7" key on the remote control unit.
6. Hold both keys for more than 2 seconds.
7. The On Screen Display message "PASSWORD CLEAR" will appear.
8. The 4 digit password has now been cleared.

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.

HOTEL MODE FUNCTION

To set the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027 button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the desired mode. Then press the ENTER button.
4. Using the LEFT/RIGHT button on the remote control, set the mode to desired setting.
5. The Hotel mode has now been set up.



To reset the Hotel mode, please follow the steps below.

1. Press the MENU---> 0027button on the remote control.
2. The Hotel mode setting menu will appear.
3. Using the UP/DOWN button on the remote control, select the RESET.
4. Using the LEFT/RIGHT button on the remote control, please select "OK". Then press the ENTER button.
5. The setting items has now been returned to initial value.

Setting item	Setting value	Initial value	FUNCTION
Maximum volume	0~100	100	Setting of the maximum volume value.
Panel button	RESPOND/ NO RESPOND	RESPOND	Effective/invalid setting of main key operation. (*Note 1)
Menu button			Effective/invalid setting of Menu key operation of set and remote control. (*Note 1)
Input mode start	TV/AV/ COMPONENT/ HDMI/PC/DVD/ OFF	OFF	Setting of input source at power supply On. (*Note 2)
Channel Number	All Channel	1	Channel Number tuned when starting this product can be set.
Reset	——	——	Various settings of the Hotel mode function return initial State.

Note 1) Even if setting it to "No Respond", the service mode function are effective.

Note 2) If setting it to "OFF", it start up in same input source when you turn off the power before.

GENERAL SPECIFICATIONS

G-1	TV System	LCD	LCD Size / Visual Size		31.51 inch / 800.4mmV
			LCD Type		Color TFT LCD
			Number of Pixels		1366(H) x 768(V)
			View Range	Left/Right Up/Down	88/88 degree
					89/89 degree
			Bright Dot		n ≤ 0
			Zero Bright Dot Ratio		--
			Color System		
G-2	DVD System	Speaker			2 Speaker
			Position		Front
			Size		1.6 x 4.8 inch
			Impedance		4 ohm
		Sound Output	MAX		10W + 10W
			10%(Typical)		---
		NTSC3.58+4.43 /PAL60Hz			Yes
		G-3	Tuning System	Broadcasting System	Analog
	Digital				DVB-
Tuner and Receive CH	System				1Tuner (Analog+Digital)
CH Coverage	Destination				UK, I.R., CCIR Hyper+France CATV
	Analog				IreE2-E4, X-Z+2, S1-S10, E5-E12,S11-S41,E21-E69
	Digital				E5-E12, ItaD-H2, Fra1-6, Rus6-12, E21-E69
Intermediate Frequency	Analog				BG / II
	Picture(FP)				38.9 / 38.9 / 38.9 / 33.9MHz
G-4	Signal		Sound(FS)		33.4 / 32.9 / 32.4 / 40.4MHz
			FP-FS		5.5 / 6.0 / 6.5 / 6.5MHz
			Digital		36.167MHz
		Auto Tuning Method			ALL Band (Not C.C.I.R. CH Plan)
		Preset CH			2000 Service in total of Analog and Digital.
		Stereo/Dual TV Sound			Nicam/A2 Dual
		Tuner Sound Muting			Yes
		G-4	Signal	Video Signal	Input Level
	Output Level				1 V p-p/75 ohm
	S/N Ratio (Weighted)				65dB
	Horizontal Resolution at DVD Mode				400 Lines
RGB Signal	Output Level				--
Audio Signal	Input Level				-8.0dBm/50k ohm
	Output Level			at DVD	-12.0dBm/1k ohm (-20dBFS 0dBFS=2.0Vrms)
				at TV	-8 dBm/1k ohm (0dBm=0.775Vrms)
	Digital Output Level				0.5 V p-p/75 ohm
	S/N Ratio at DVD (Weighted)				85dB
	Harmonic Distortion				0.02% (1KHz)
	Frequency Response :			at DVD	4Hz - 22kHz
G-5	Power			at Video CD/SVCD	4Hz - 20kHz
				at CD	4Hz - 20kHz
		Power Source	AC		220-240V AC 50Hz
			DC		---
G-5	Power	Power Consumption		at AC	95 W at AC 230 V 50 Hz
				at DC	--
		Stand by (at AC)	w/ EPG Timer		--
			w/o EPG Timer		0.5 W at AC 230 V 50 Hz
G-5	Power		Per Year		-- kWh/Year
		Protector	Power Fuse		Yes

GENERAL SPECIFICATIONS

G-6	Regulation	Safety	CE(EN60065:2002+AMD.11:2008), SEMKO, HOMOLO, Ukraine Safety CE ---
		Radiation X-Radiation	
G-7	Temperature	Operation	+5oC ~ +40oC
		Storage	-20oC ~ +60oC
		Space Around Unit	100mm (4inch)
G-8	Operating Humidity		Less than 80% RH
G-9	OSD Language	(TV)	English, Spanish, German, French, Italian, Swedish Dutch, Russian, Portuguese, Turkish, Greek, Finnish Polish, Danish, Norwegian, Hungarian, Czech, Slovak Estonian, Latvian, Lithuanian, Slovenian, Ukranian
		(DVD)	English, Spanish, German, French, Italian, Swedish Dutch, Russian, Portuguese, Turkish, Greek, Finnish Polish, Danish, Norwegian, Hungarian, Czech, Slovak Estonian, Latvian, Lithuanian, Slovenian, Ukranian
G-10	Clock and Timer	Sleep Timer	Max Time
			Step
		On/Off Timer	Program(On Timer / Off Timer)
		Timer Back-up (at Power Off Mode)	more than
		EPG Timer Events	--
G-11	Remote Control	Unit	RC-RV
		Glow in Dark Remocon	No
		Remocon Format	ORION
		Format	NEC
		Custom Code	<u>71-8E</u> h
		Power Source	3V
		Voltage(D.C)	UM-3 x 2 pcs
		UM size x pcs	<u>47</u> Keys
		Total Keys	
		Keys	
		Power (Stand By)	Yes
		Display / (Status)	Yes
		Analog Menu	No
		Digital Menu	No
		Input Select	Yes
		DTV/ATV	Yes
		TV/DVD	Yes
		Eject	No
		Guide(EPG)	Yes
		Picture Size	Yes
		1	Yes
		2	Yes
		3	Yes
		4	Yes
		5	Yes
		6	Yes
		7	Yes
		8	Yes
		9	Yes
		0	Yes
		Sleep	No
		Mute	Yes
		Volume Up / →	No
		Volume Down / ←	No
		Volume Up	Yes
		Volume Down	Yes
		CH Down	No
		CH Up	No
		Menu / Setup	Yes

GENERAL SPECIFICATIONS

		↑	Yes
		↓	Yes
		←/Slow-	Yes
		→/Slow+	Yes
		OK / CH List	Yes
		Return	Yes
		Freeze	No
		TV/Radio	No
		Subtitle	Yes
		Audio	No
		Play	Yes
		Stop	Yes
		Pause	Yes
		Quick View	Yes
		Cancel	Yes
		DVD Menu	Yes
		Top Menu	Yes
		Repeat A-B	No
		Play Mode	Yes
		Jump	No
		Search+	No
		Search-	No
	T*TEXT Keys	TEXT / TAP / TV	Yes
		Slow+ / F.T.B	No
		Audio / F.T.B	Yes
		Slow- / Hold	No
		Freeze / Hold	Yes
		Angle / Reveal	Yes
		Zoom / Sub Page	Yes
		Red/Skip-	Yes
		Green/REV	Yes
		Yellow/FWD	Yes
		Cyan/Skip+	Yes
		CH Up / Page Up	Yes
		CH Down / Page Down	Yes
G-12	Features	Power On Memory	Yes
		Auto Shut Off	Yes
		Just Clock Function	No
		Game Position	No
		DNR	Yes
			3D
		Comb Filter	Yes
			3D
	Auto Set Up (Fast installation)	Auto tuning	Yes
		CH sort	Yes
		ATS	Yes
		Auto clock (Digital tuner)	Yes
		Plug in start	Yes
	Picture Setting(TV)	Picture Preference	Yes
		Brightness , Contrast , Color	Yes
		Tint	Yes
		Sharpness	Yes
		DNR	Yes
		Color Temperature	Yes
		Blue Back	Yes
		Backlight Control	Yes
		HDMI Mode	Yes
		DBC (Dynamic Backlight Control)	Yes
		Film Mode	No
	Picture Setting(PC)	BRIGHTNESS , CONTRAST	Yes (Connected with TV mode setting)
		HOR POSITION , VER POSITION	Yes
		PHASE , CLOCK	Yes
		AUTO ADJUST	Yes
		RED , GREEN , BLUE	Yes
		Backlight	Yes (Connected with TV mode setting)
		WXGA INPUT	No
		WVGA INPUT	No

GENERAL SPECIFICATIONS

	Audio	Tone Control (Bass/Treble/Balance)	Yes
		Surround	Yes
		Equalizer	Yes
		Speaker	Yes
		Stable Sound	No
		Audio Description	Yes
		BBE	No
		SRS WOW (SRS 3D/Focus/Tru Bass)	No
	Tuning	Variable Audio Out	No
		Auto Tuning (Analog/Digital)	Yes
		Update Scan (Analog/Digital)	Yes
		CH Skip (Analog/Digital)	Yes
		CH Sort (Analog/Digital)	Yes
		CH Edit (Analog/Digital)	Yes
	Lock	Fine Tuning (Analog)	Yes
		Panel Lock	No
		Channel Lock	Yes
		Parental Lock (Digital)	Yes
	Screen Saver	Hotel Lock	Yes
		Inversion	No
		Full White	No
		Screen Saver	No
	T'Text	Static Image	No
			Yes
		Text type	Fasttext / Toptext
	Text and Picture	Text Language	English, German, Swedish, Finnish, Hungarian, Italian, French, Portuguese, Spanish, Czech, Slovak, Polish, Estonian, Lettish, Lithuanian, Serbian, Croatian, Slovenian, Rumanian, Russian, Bulgarian, Ukrainian, Turkish, Greek, Hebrew, Arabic
			Yes
		Wide Mode (AUTO/4:3/16:9/CINEMA/14:9/REAL)	Yes
		CH Label	Yes
		Reset TV Setting	Yes
		HD Zoom	Yes
		Picture Scroll (Vertical Position)	No
		PFC(Power Factor circuit)	Yes
		Freeze frame	Yes (Tuner Only)
		Plug and Play	No
		Power Management	Yes
		No Operation Power Off	Yes
		Hearing Impaired	Yes
		4:3 Mode (Auto 4:3 Default)	Yes
		TV Location	Yes
	Scart Spec	Scart1	AV in
			AV out
			S-Video in
			RGB in
		Scart2	AV in
			AV out
			S-Video in
			RGB in
	Digital Text (VBI teletext)		No
		Digital Text (VBI teletext)	Yes
		MHEG-5	Yes
		MHP	No
		EPG (BBC type 8Days Digital tuner only)	Yes
		OAD (Over Air Download)	Yes
		Common Interface (Digital tuner only)	Yes
		Rec Screen Status	No
		Ch sorting based on Ch List (Digital/Germany only)	Yes
		Rename Carrier (Digital)	No
		Edit Event Timer	No
		Software Update via CI Slot	No
		Preference Language (Audio/Subtitle/Digital Service)(Digital)	Yes
		DVB Subtitle (Digital)	Yes
		Time Setup	Yes
		Signal Status	Yes

GENERAL SPECIFICATIONS

Digital Out	Dolby Digital	Dolby Digital
	Dolby Digital Plus	Dolby Digital
	MPEG	PCM
	HE AAC	Dolby Digital
Decode(Down Mix)	Dolby Digital	Yes
	Dolby Digital Plus	Yes
	MPEG	Yes
	HE AAC	Yes
PC Monitor Input		Yes
	VGA (640x480)	Yes (60Hz)
	VGA (720x400)	No (Possible to Display)
	WVGA (848x480)	No
	SVGA (800x600)	Yes (60Hz)
	XGA (1024x768)	Yes (60Hz)
	WXGA (1280x768)	Yes (60Hz)
	WXGA (1280x720)	Yes (60Hz)
	WXGA (1360x768)	Yes (60Hz)
	SXGA (1280x1024)	No (Possible to Display)
	WXGA+ (1440x900)	No (Possible to Display)
	WSXGA+ (1680x1050)	No (Possible to Display)
	FULL HD (1920x1080)	No (Possible to Display)
HDMI Input		Yes
	VGA (640x480)	Yes (60Hz)
	VGA (720x400)	No (Possible to Display)
	WVGA (848x480)	No
	SVGA (800x600)	Yes (60Hz)
	XGA (1024x768)	Yes (60Hz)
	WXGA (1280x768)	Yes (60Hz)
	WXGA (1280x720)	Yes (60Hz)
	WXGA (1360x768)	Yes (60Hz)
	SXGA (1280x1024)	No (Possible to Display)
	WXGA+ (1440x900)	No (Possible to Display)
	WSXGA+ (1680x1050)	No (Possible to Display)
	FULL HD (1920x1080)	No (Possible to Display)
	720x480i (4:3)	Yes (60Hz)
	720x480i (16:9)	Yes (60Hz)
	720x480p (4:3)	Yes (60Hz)
	720x480p (16:9)	Yes (60Hz)
	720x576i (4:3)	Yes (50Hz)
	720x576i (16:9)	Yes (50Hz)
	720x576p (4:3)	Yes (50Hz)
	720x576p (16:9)	Yes (50Hz)
	1280x720p	Yes (50/60Hz)
	1920x1080i	Yes (50/60Hz)
	1920x1080p	Yes (24/50/60Hz)
	CEC(ORION Standard)	No
	Deep Color	No
	xvYCC	No
Component Input		Yes
	720x480i (4:3)	Yes (60Hz)
	720x480i (16:9)	Yes (60Hz)
	720x480p (4:3)	Yes (60Hz)
	720x480p (16:9)	Yes (60Hz)
	720x576i (4:3)	Yes (50Hz)
	720x576i (16:9)	Yes (50Hz)
	720x576p (4:3)	Yes (50Hz)
	720x576p (16:9)	Yes (50Hz)
	1280x720p	Yes (50/60Hz)
	1920x1080i	Yes (50/60Hz)
	1920x1080p	No (Possible to Display)
Wall Mount	Size W x H(mm)	Yes (200 x 200)
	Screw Size	M6 x 10
Stand	Tilt	No
	Swivel	No

GENERAL SPECIFICATIONS

	Features (DVD)	Parental Lock	Yes
		Auto Power Off	No
		Video CD Playback	Yes
		SVCD Playback	Yes
		MP3 Playback	Yes
		WMA Playback	Yes
		JPEG Playback	Yes
		Fujicolor CD	Yes
		KODAK Picture CD	Yes
		Divx Playback	Yes
		DMF Support	No
		VR Format Playba	No
		USB	No
		Digital Out	Dolby Digital
		Dolby Digital	Dolby Digital
		MPEG	PCM
		PCM	PCM
		DTS	Yes
		Decode(Down Mix)	Dolby Digital
		DTS	Yes
		Auto Retract Disc	No
		BNR	No
		Disc Navigator	Yes
		E.B.L. (Enhanced Black Level)	No
		Surround	No
		Screen Saver	No
		Tray Lock	No
		One Touch Replay	No
		CGMS-A in CC XDS	No
		Audio DAC	192kHz / 24bit
		Macrovision	Yes (No Video Out)
		Closed Caption signal in VBI (DVD Playback)	No
		Play Mode	Yes
		Audio Adjust	Yes
		Equalizer	Yes
		Dynamic Range Control	Yes
		Dialog	Yes
		Video Adjust	Yes
		Sharpness	Yes
		Brightness	Yes
		Contrast	Yes
		Gamma	Yes
		Hue	Yes
		Chroma Level	Yes
		TV Screen	4:3 (Letter Box, Pan Scan)
		16:9 (Wide)	Yes
		Audio Language	Yes
		Subtitle Language	Yes
		DVD Menu Language	Yes
		Subtitle Display	Yes
		Angle Indicator	Yes
G-13	Accessories	Owner's Manual	Language
			English, Spanish, German, French, Italian, Portuguese Dutch
			w/Guarantee Card
			No
		Remote Control Unit	Yes
		Rod Antenna	No
		Poles	-
		Terminal	-
		Loop Antenna (W/ Antenna Change Plug)	No
		Terminal	-

GENERAL SPECIFICATIONS

		DVB-T Antenna	No		
		U/V Mixer	No		
		DC Car Cord (Center+)	No		
		Guarantee Card	Yes		
		Caution Sheet	No		
		Repair Coupon	No		
		AQUOS Care plan	Yes		
		Warning Sheet	No		
		Circuit Diagram	No		
		Antenna Change Plug	No		
		Service Facility List	No		
		Important Safeguard	No		
		Quick Set-up Sheet	Yes(11Language)		
		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		
		AV Cord (2Pin-1Pin)	No		
		HDMI-DVI Cable	No		
		Registration Card	No		
		300 ohm to 75 ohm Antenna Adapter	No		
		Stand Screw???	Yes(8pcs,Wrench)		
		Stand	Yes		
		Frame Stand	Yes		
G-14	Interface	Switch	Side	Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up / Play / Menu Up	Yes
				Channel Down / Stop / Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select/Enter	Yes
				Menu	Yes
				Eject	Yes
		Indicator		Power/Stand-by	Yes(GREEN / RED)
				On Timer	No
		Terminals	Rear	Video Input 1	RCA x 1 (AV3)
				Audio Input 1	RCA x 2(L/MONO, R) (AV3)
				S- Input 1	No
				Video Input 2	No
				Audio Input 2	No
				S- Input 2	No
				Video Output	No
				Audio Output	No
				Digital Audio Out (Coaxial)	Yes
				Headphone	No
				Euro Scart (21Pin)	2Scart (AV1, AV2)
				Component In	RCA x 3
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				PC Monitor Input (D-Sub)	Yes
				Audio Input	Mini Pin Jack(φ 3.5), STEREO
				HDMI Input 1	Yes
				Audio Input (HDMI/DVI In use)	PC Monitor Audio Input Alternative
				HDMI Input 2	Yes
				Audio Input (HDMI/DVI In use)	No
				HDMI Input 3	No
				Audio Input (HDMI/DVI In use)	No
				USB(Software Update)	Yes
				Sub Woofer Output	No
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				AC Inlet	Yes
				VHF/UHF Antenna Input	Side
		CI Card Slot	Yes		
		Headphone	Yes		
				VHF/UHF Antenna Input	DIN Type

GENERAL SPECIFICATIONS

G-15	Set Size	Approx. W x D x H (mm)	796.2 x 243.0 x 596.6
		w/o Stand,Handle Approx. W x D x H (mm)	796.2 x 105.5 x 546.6
G-16	Weight	Net Approx.	12.5kg (27.2lbs)
		Net w/o Stand,Handle Approx.	11.0kg (24.1lbs)
		Gross Approx.	15.5kg (34.4lbs)
		Gross w/Master Carton (Approx.)	--- kg (--- lbs)
G-17	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)	900 x 265 x 654
		Design	As per Buyer's
		Description of Origin	No
		Drop Test	Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
		Height (cm)	48
		Container Stuffing	390 Sets/45' Trailer
		w/Pallet	No
		w/Wrapping	No
G-18	Material	Cabinet	Cabinet Front
			Cabinet Rear
			Stand
		PCB	Non-Halogen
			Eyelet
G-19	Environment	Environmental standard requirement	Green procurement of SHARP
		Pb- Free	Phase3(PHASE3A)
		Measures for Whisker	Yes
		WEEE	Yes

DISASSEMBLY INSTRUCTIONS

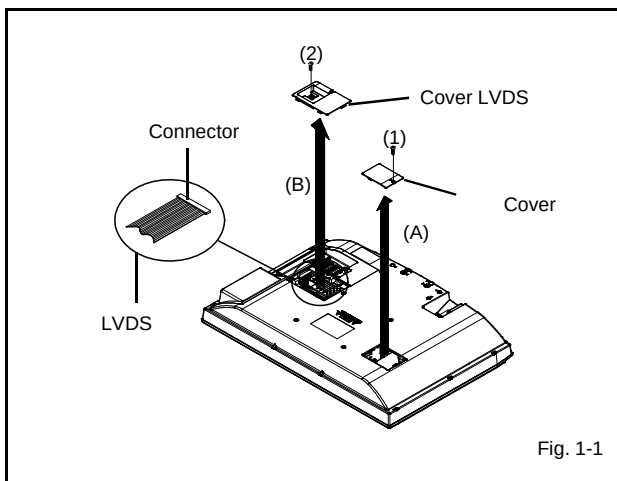
1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

CAUTION

Be careful not to remove the LVDS cable forcibly, because the LVDS cable may be damaged.

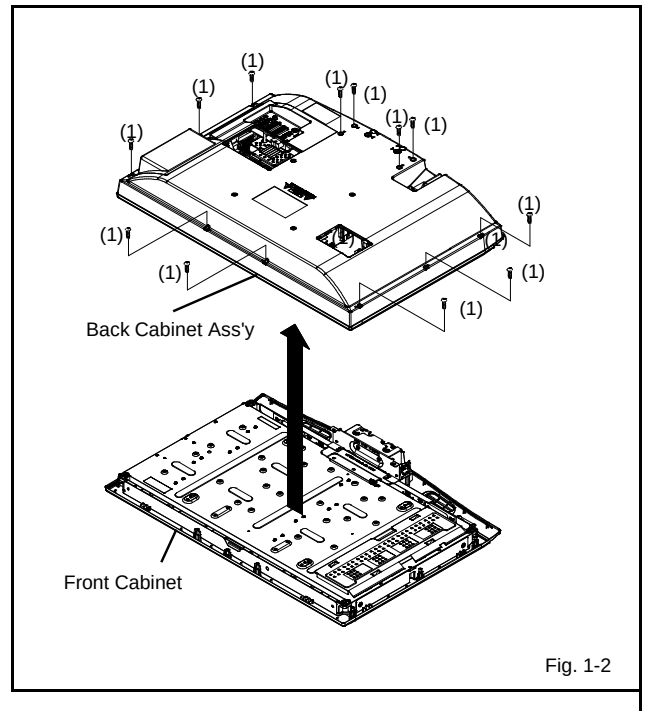
1-1: COVER INVERTER and COVER LVDS (Refer to Fig. 1-1)

1. Remove the screws (1).
2. Remove the Cover Inverter in the direction of arrow (A).
3. Disconnect the following connectors: **(CP3803)**.
4. Remove the screws (2).
5. Remove the Cover LVDS in the direction of arrow (B).
6. Release the lock of connector disconnect the following connector: **(CP2804)**.



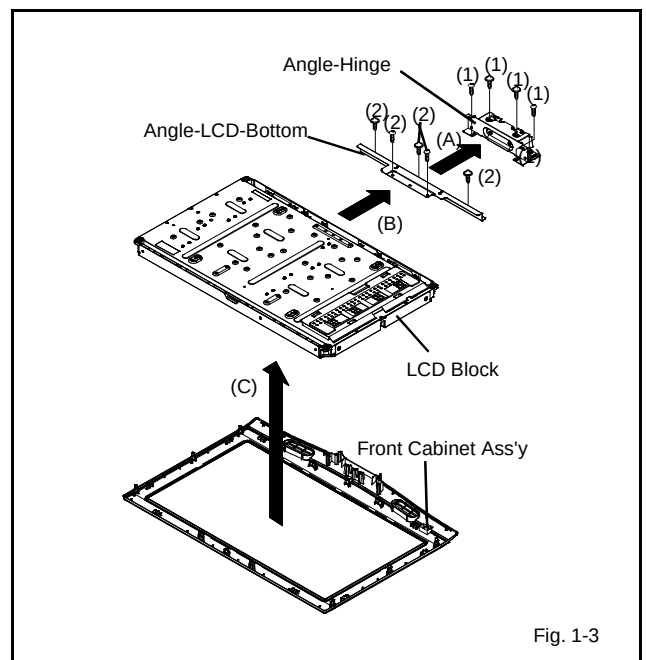
1-2: BACK CABINET ASS'Y (Refer to Fig. 1-2)

1. Remove the 12 screws (1).
2. Remove the Back Cabinet Ass'y in the direction of arrow .



1-3: LCD BLOCK (Refer to Fig. 1-3)

1. Remove the 4 screws (1).
2. Remove the Angle-Hinge in the direction of arrow (A).
3. Remove the 5 screws (2).
4. Remove the Angle-LCD Bottom in the direction of arrow (B).
5. Remove the LCD Block in the direction of arrow (C).



DISASSEMBLY INSTRUCTIONS

1-4: DVD MT PCB and DVD DECK (Refer to Fig. 1-4)

1. Put the Cabinet Back Ass'y on the bottom.
2. Short circuit the position shown in Fig. 1-4 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.
3. Disconnect the following connectors: **(CP2301, CP2302, CP2303, CP8501 and CP8502).**
4. Remove the 3 screws (1).
5. Remove the DVD DECK Ass'y in the direction of arrow (A).
6. Remove the 4 screws (2).
7. Unlock the 2 supports (3).
8. Remove the DVD MT PCB in the direction of arrow (B).
9. Remove the Shield LVDS in the direction of arrow (C).
10. Remove the Shield LVDS Bottom in the direction of arrow (D).

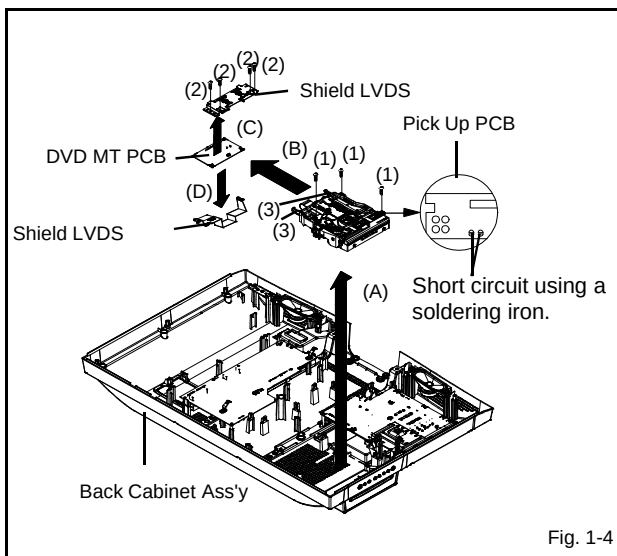


Fig. 1-4

NOTE

1. Before your operation, please read "PREPARATION OF SERVICING".
2. Use the Lead Free solder.
3. Manual soldering conditions
 - Soldering temperature: $320 \pm 20^\circ\text{C}$
 - Soldering time: Within 3 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
4. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
5. When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

1-5: POWER PCB (Refer to Fig. 1-5)

1. Disconnect the following connectors: **(CP3200 and CP3203).**
2. Remove the 6 screws (1).
3. Remove the Power PCB in the direction of arrow.

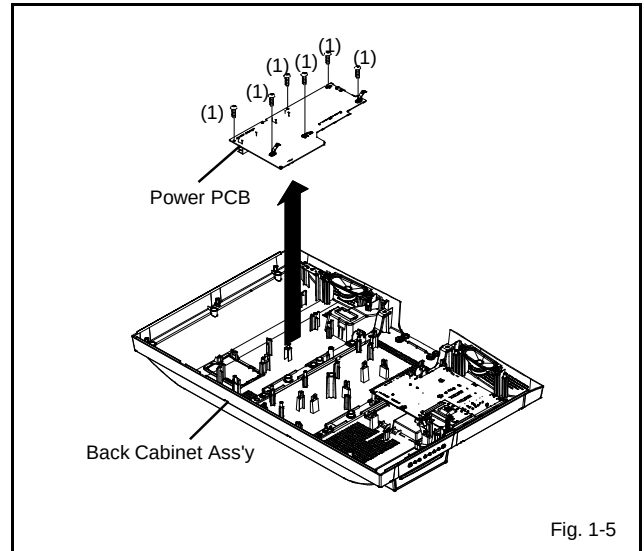


Fig. 1-5

1-6: MAIN PCB and TUNER PCB (Refer to Fig. 1-6)

1. Disconnect the following connector: **(CP301, CP2201 and CP4301).**
2. Remove the 2 screws (1).
3. Remove the Tuner PCB in the direction of arrow (A).
4. Remove the screw (2).
5. Remove the Spring Earth Tuner in the direction of arrow (B).
6. Remove the 3 screws (3).
7. Remove the Shield Main Bottom in the direction of arrow (C).
8. Remove the 6 screws (4).
9. Remove the Main PCB in the direction of arrow (D).
10. Remove the Plate Jack in the direction of arrow (E).

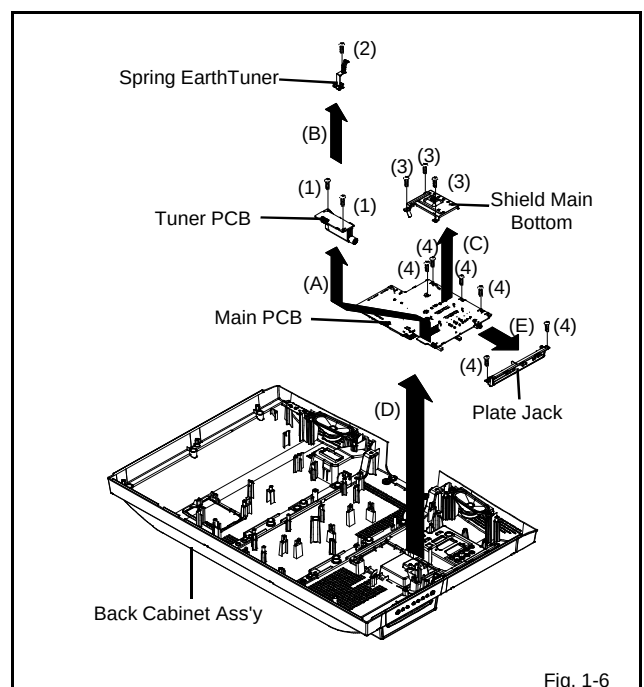


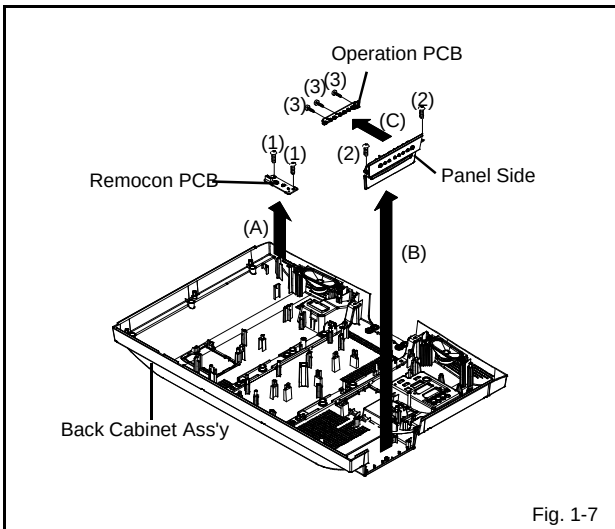
Fig. 1-6

DISASSEMBLY INSTRUCTIONS

1-7: OPERATION PCB and REMOCON PCB

(Refer to Fig. 1-7)

1. Remove the 2 screw (1).
2. Remove the Remocon PCB in the direction of arrow (A).
3. Remove the 2 screws (2).
4. Remove the Panel Side Ass'y in the direction of arrow (B).
5. Remove the 3 screws (3).
6. Remove the Operation PCB in the direction of arrow (C).



DISASSEMBLY INSTRUCTIONS

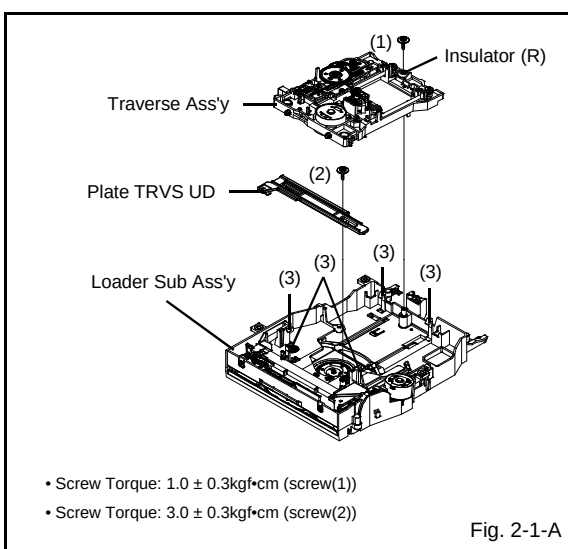
2. REMOVAL OF DVD DECK PARTS

NOTE

1. Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

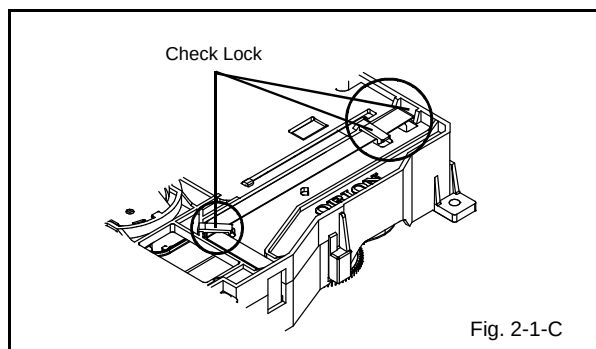
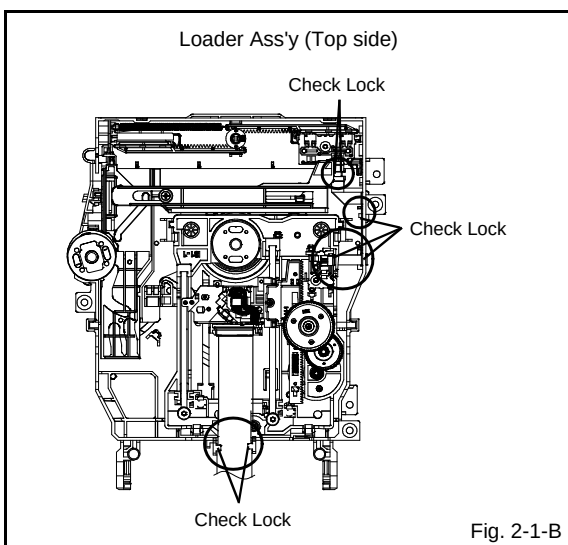
2-1: TRAVERSE ASS'Y/LOADING MOTOR PCB ASS'Y/ PLATE TRVS UD (Refer to Fig. 2-1-A)

1. Remove the screw (1).
2. Remove the screw (2).
3. Unlock the 5 supports (3).
4. Remove the Insulator (R) from the Loader Ass'y.
5. Remove the Traverse Ass'y and Plate Trvs Ud.



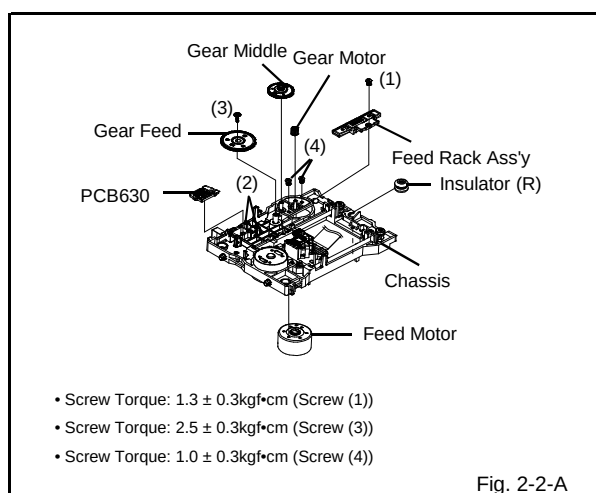
NOTE

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-1-B to Fig. 2-1-C.



2-2: INSULATOR (R)/FEED RACK ASS'Y/ PCB630/GEAR MIDDLE/GEAR FEED/ FEED MOTOR/GEAR MOTOR (Refer to Fig. 2-2-A)

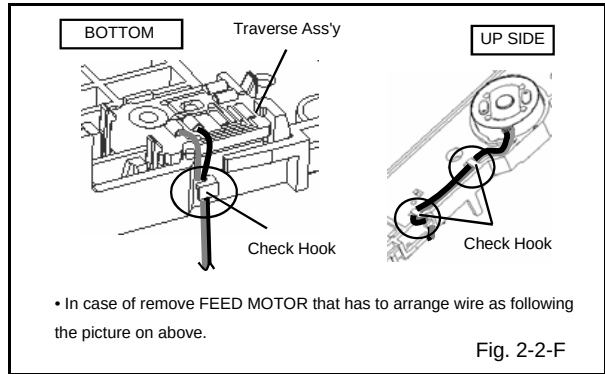
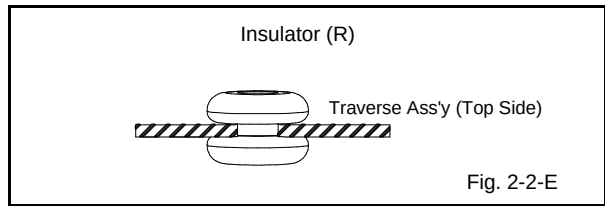
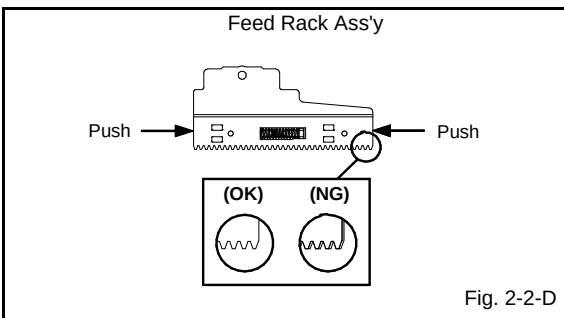
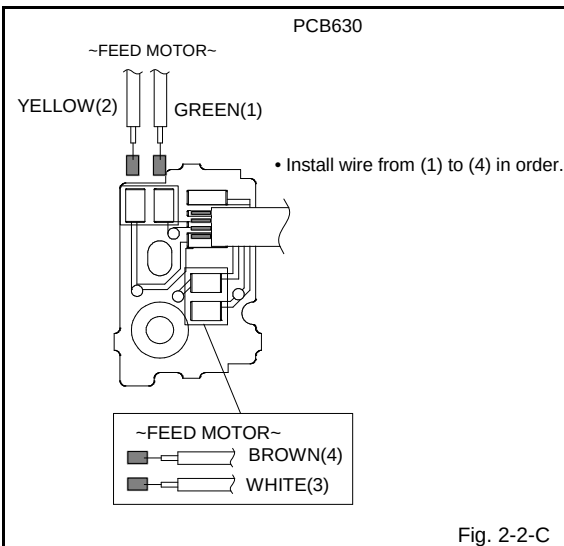
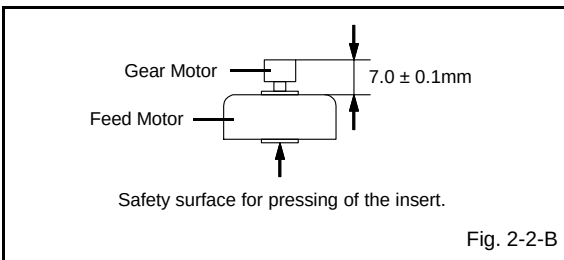
1. Remove the Insulator (R).
2. Remove the screw (1).
3. Remove the Feed Rack Ass'y.
4. Unlock the 2 supports (2).
5. Remove the PCB630.
6. Remove the screw (3).
7. Remove the Gear Feed.
8. Remove the Gear Middle.
9. Remove the 2 screws (4).
10. Remove the Gear Motor.
11. Remove the Feed Motor.



DISASSEMBLY INSTRUCTIONS

NOTE

1. In case of the Gear Motor installation, check if the value of the Fig. 2-2-B is correct.
2. When installing the wire of the PCB630 install it correctly as Fig. 2-2-C.
Manual soldering conditions
 - Soldering temperature: $350 \pm 5^{\circ}\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
3. When installing the Feed Rack Ass'y, push both ends to align the teeth as shown Fig. 2-2-D. Then install it.
4. In case of the Insulator (R) installation, install correctly as Fig. 2-2-E.
5. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-F.

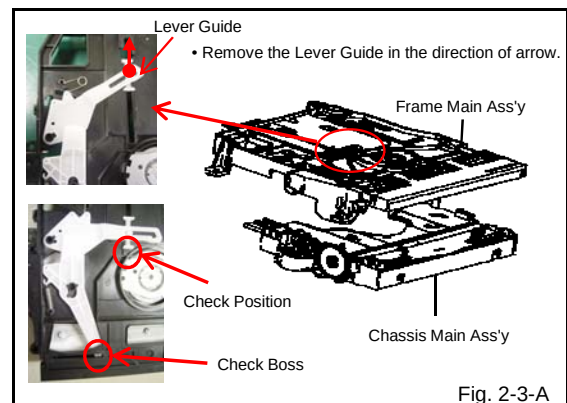


2.3: GEAR ROLLER/LUMIRROR WASHER/ ROLLER CONE/SHAFT ROLLER/ LOADING MOTOR PCB/LOADING MOTOR/ GEAR WORM/RACK LEVER (Refer to Fig. 2-3-B)

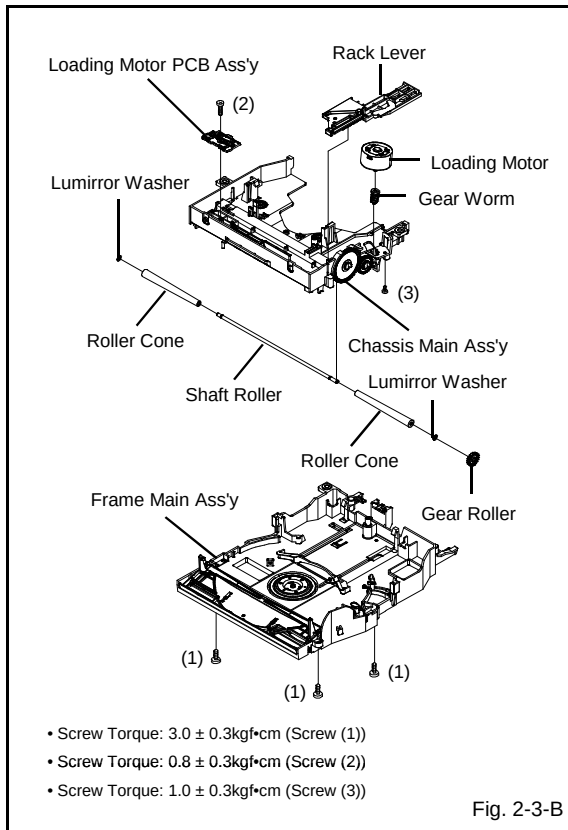
1. Remove the 3 screws (1).
2. Remove the Chassis Main Ass'y.
3. Remove the Roller Ass'y.
4. Remove the Gear Roller.
5. Remove the Lumirror Washer.
6. Remove the Roller Cone.
7. Remove the Shaft Roller .
8. Remove the screw (2).
9. Remove the Loading Motor PCB Ass'y.
10. Remove the screw (3).
11. Remove the Loading Motor.
12. Remove the Gear Worm.
13. Remove the Rack Lever.

NOTE

1. When Chassis Main Ass'y is removed, it is necessary to change the position of Lever Disc and Guide Disc.
2. In case of the Chassis Main Ass'y, check position Lever Disc, Lever Guide and Boss of Rack Disc Sensor as shown Fig. 2-3-A.

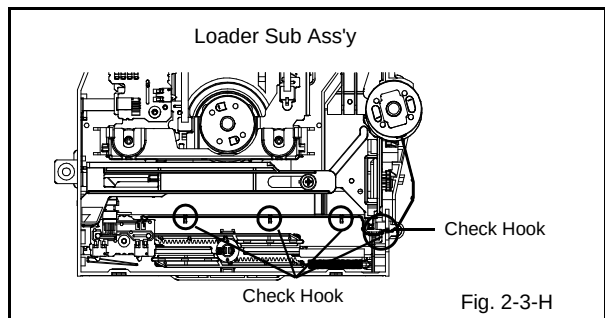
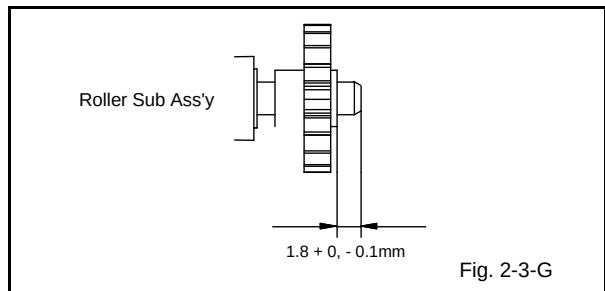
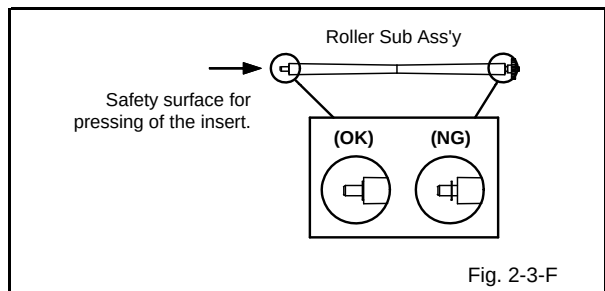
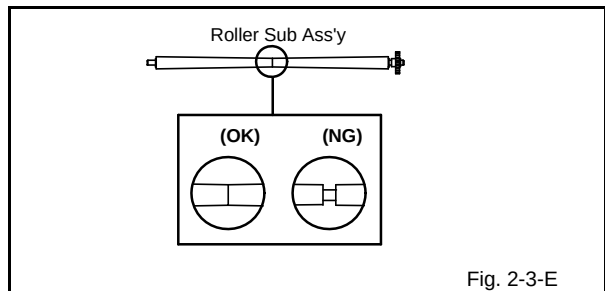
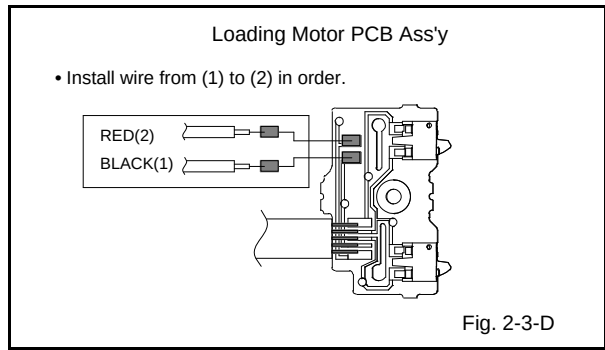
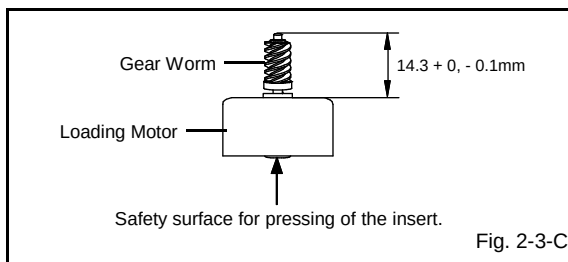


DISASSEMBLY INSTRUCTIONS



NOTE

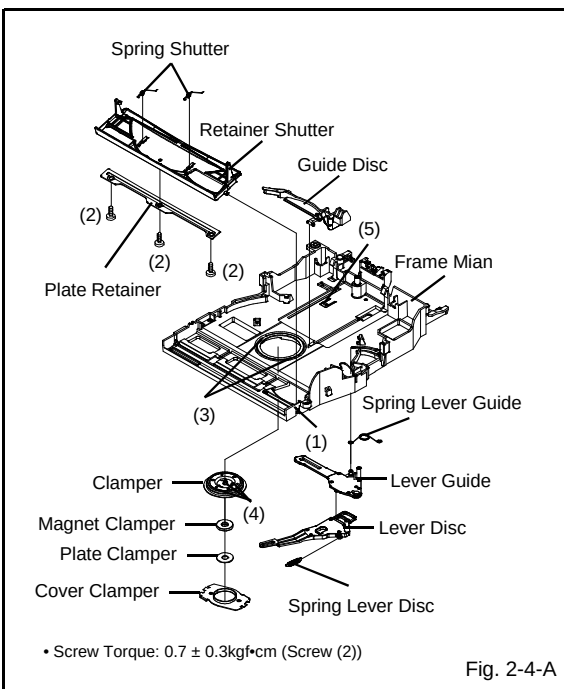
1. In case of the Gear Worm installation, check if the value of the Fig. 2-3-C is correct.
2. When installing the wire of the Loading Motor PCB Ass'y, install it correctly as Fig. 2-3-D.
 Manual soldering conditions
 - Soldering temperature: $350 \pm 5^\circ\text{C}$
 - Soldering time: Within 4 seconds
 - Soldering combination: Sn-3.0Ag-0.5Cu
3. In case of the Roller Cone installation, install correctly as Fig. 2-3-E.
4. In case of the Lumirror Washer installation, install correctly as Fig. 2-3-F.
5. In case of the Gear Roller installation, check if the value of the Fig. 2-3-G is correct.
6. After the assembly of the Loader Sub Ass'y, hook the wire on the Loader Sub Ass'y as shown Fig. 2-3-H.



DISASSEMBLY INSTRUCTIONS

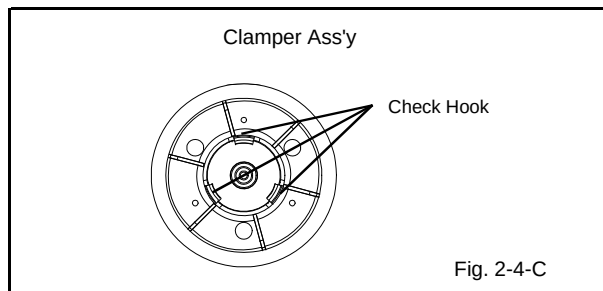
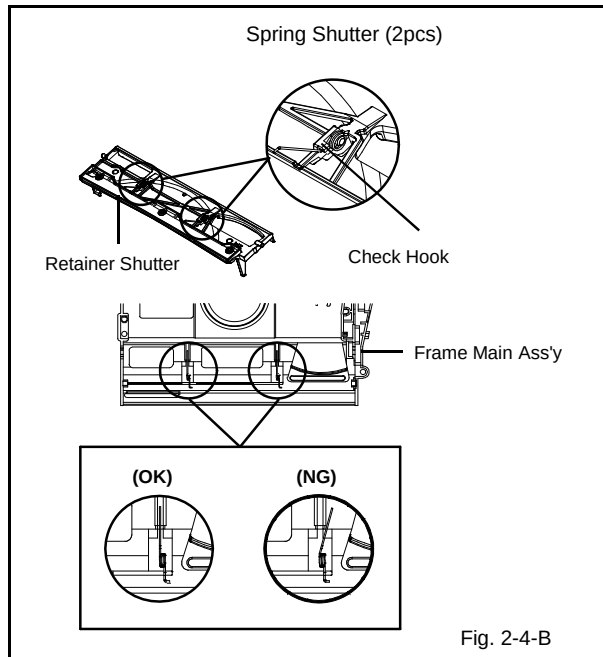
2.4: SPRING SHUTTER/PLATE RETAINER/ RETAINER SHUTTER/COVER CLAMPER/ PLATE CLAMPER/MAGNET CLAMPER/ CLAMPER/GUIDE DISC/LEVER DISC/ SPRING LEVER GUIDE/SPRING LEVER DISC/ LEVER DISC (Refer to Fig. 2-4-A)

1. Unlock the support (1).
2. Remove the Retainer Shutter Ass'y.
3. Remove the Spring Shutter.
4. Remove the 3 screws (2).
5. Remove the Plate Retainer.
6. Remove the Retainer Shutter.
7. Unlock the 2 supports (3).
8. Remove the Cover Clamper.
9. Unlock the 3 supports (4).
10. Remove the Plate Clamper.
11. Remove the Magnet Clamper.
12. Remove the Clamper.
13. Unlock the support (5).
14. Remove the Guide Disc.
15. Remove the Lever Guide.
16. Remove the Spring Lever Guide.
17. Remove the Spring Lever Disc.
18. Remove the Lever Disc.



NOTE

1. In case of the Retainer Shutter Ass'y installation, check if the value of the Fig. 2-4-B is correct.
2. In case of the Clamper Ass'y installation, check if the value of the Fig. 2-4-C is correct.

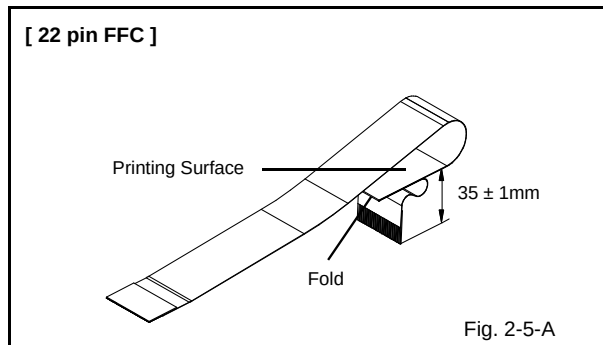


2-5: FFC WIRE HANDLING

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-5-A to Fig. 2-5-D.

NOTE

1. Do not make the folding lines except the specified positions for the FFC.



DISASSEMBLY INSTRUCTIONS

Install the position (A) and (B)

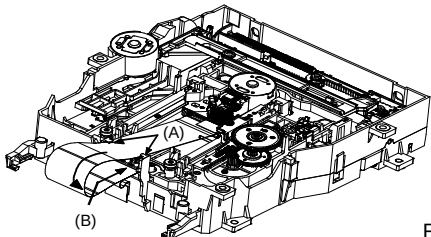


Fig. 2-5-B

[4 pin FFC]

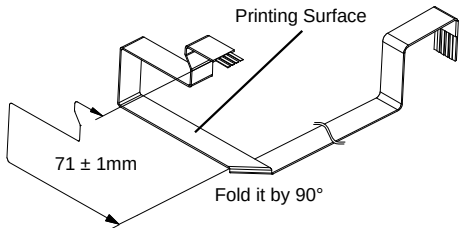


Fig. 2-5-C

[5 pin FFC]

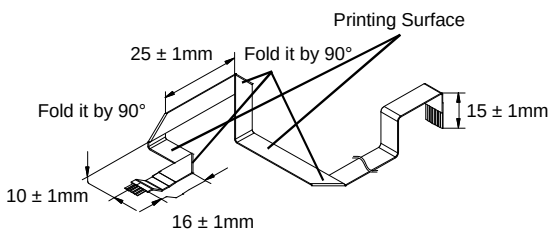


Fig. 2-5-D

DISASSEMBLY INSTRUCTIONS

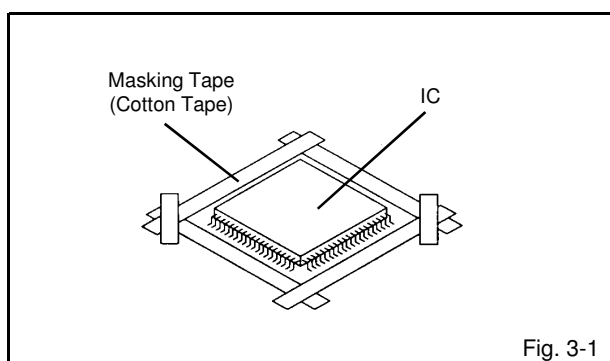
3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

1. Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 3-1.)

NOTE

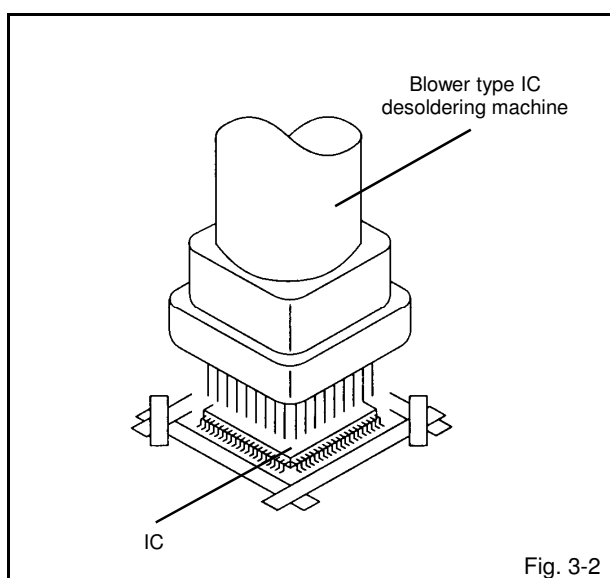
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 3-2.)

NOTE

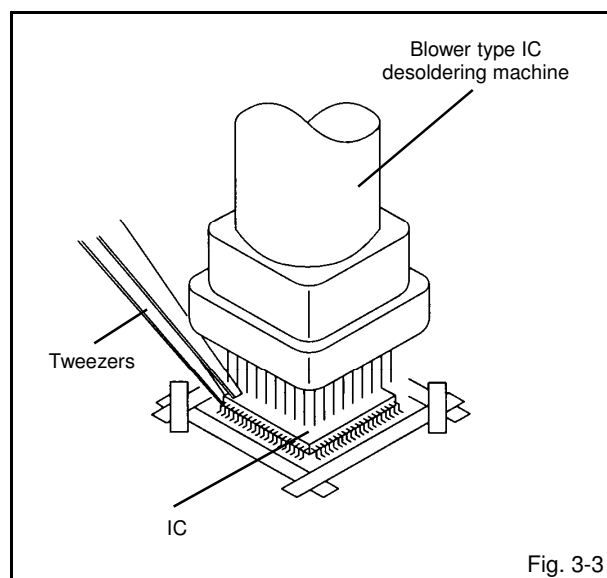
Do not rotate or move the IC back and forth, until IC can move back and forth easily after desoldering the leads completely.



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. 3-3.)

NOTE

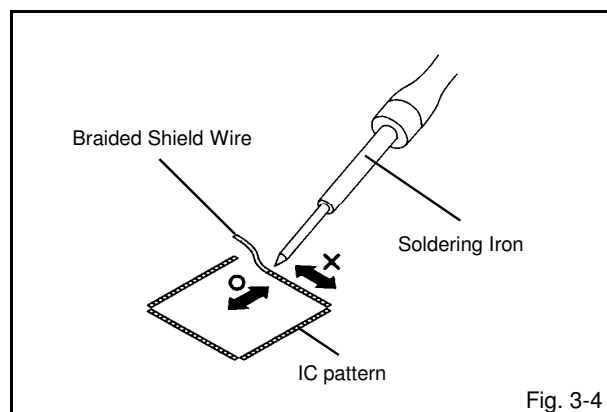
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



4. Peel off the Masking Tape.
5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 3-4.)

NOTE

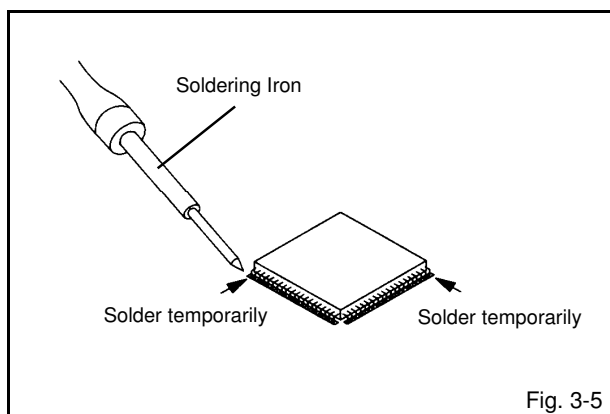
Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.



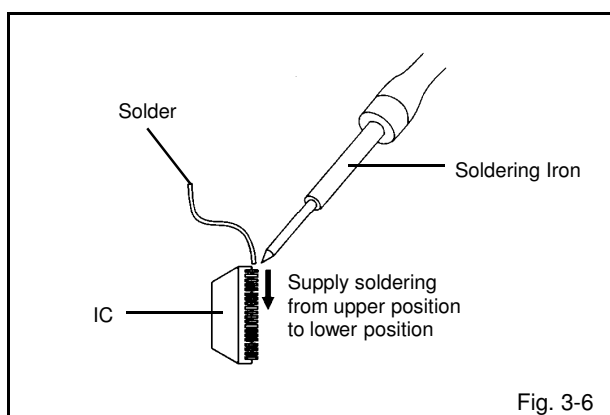
DISASSEMBLY INSTRUCTIONS

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. 3-5.)



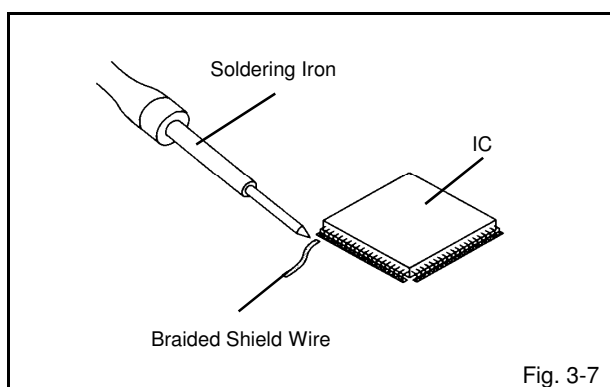
2. Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 3-6.)



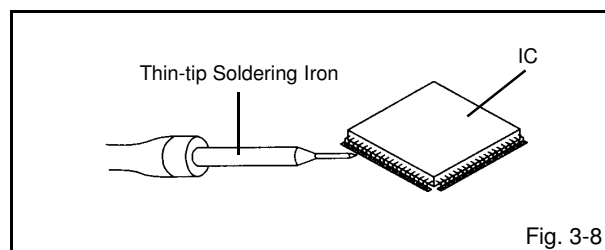
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 3-7.)

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. 3-8.)



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

CAUTION

- Do not feel after other MENU.

1. Check of the SUM DATA and MICON VERSION on the screen.

1-1: Press the MENU ---> 0027 button on the remote control to select "Version Info".

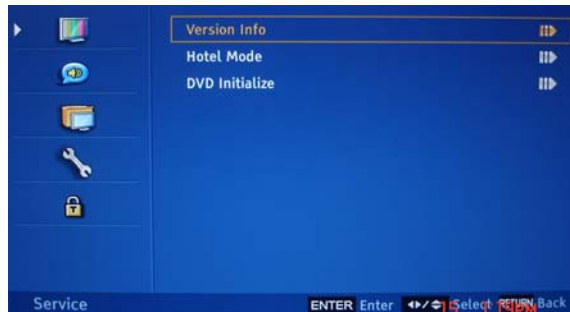


Fig. 1-1

1-2: Press the ENTER button on the remote control.

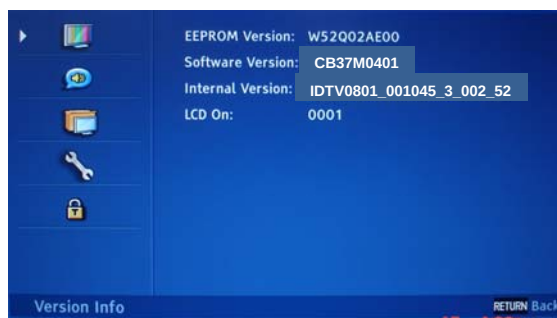


Fig. 1-2

2. DVD Initialize Data.

2-1: Press the MENU ---> 0027 button on the remote control to select "DVD Initialize".

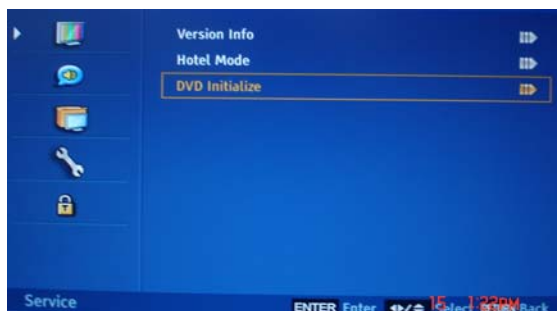


Fig. 2-1

2-2: Press the ENTER button on the remote control to select "OK".

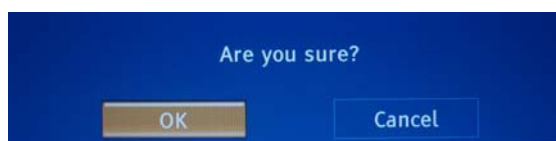
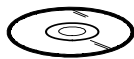


Fig. 2-2

SERVICING FIXTURES AND TOOLS

JG176 Up-Date Disc



Ref. No.	Part No.	Parts Name	Remarks
JG176	APJG176152	Up-Date Disc	Up-Date of the Firmware

RE-WRITE FOR DVD FIRMWARE

1. Turn on the power, and set the DVD mode.

1-1: Press the SETUP/ TV MENU ---> 0027 button on the remote control to select "Initial Settings".



Fig. 1-1

1-2: Press the ENTER button on the remote control to select "Options".



Fig. 1-2

1-2: Press the **i+** button on the remote control.

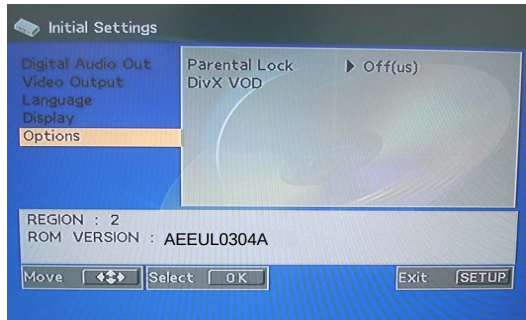
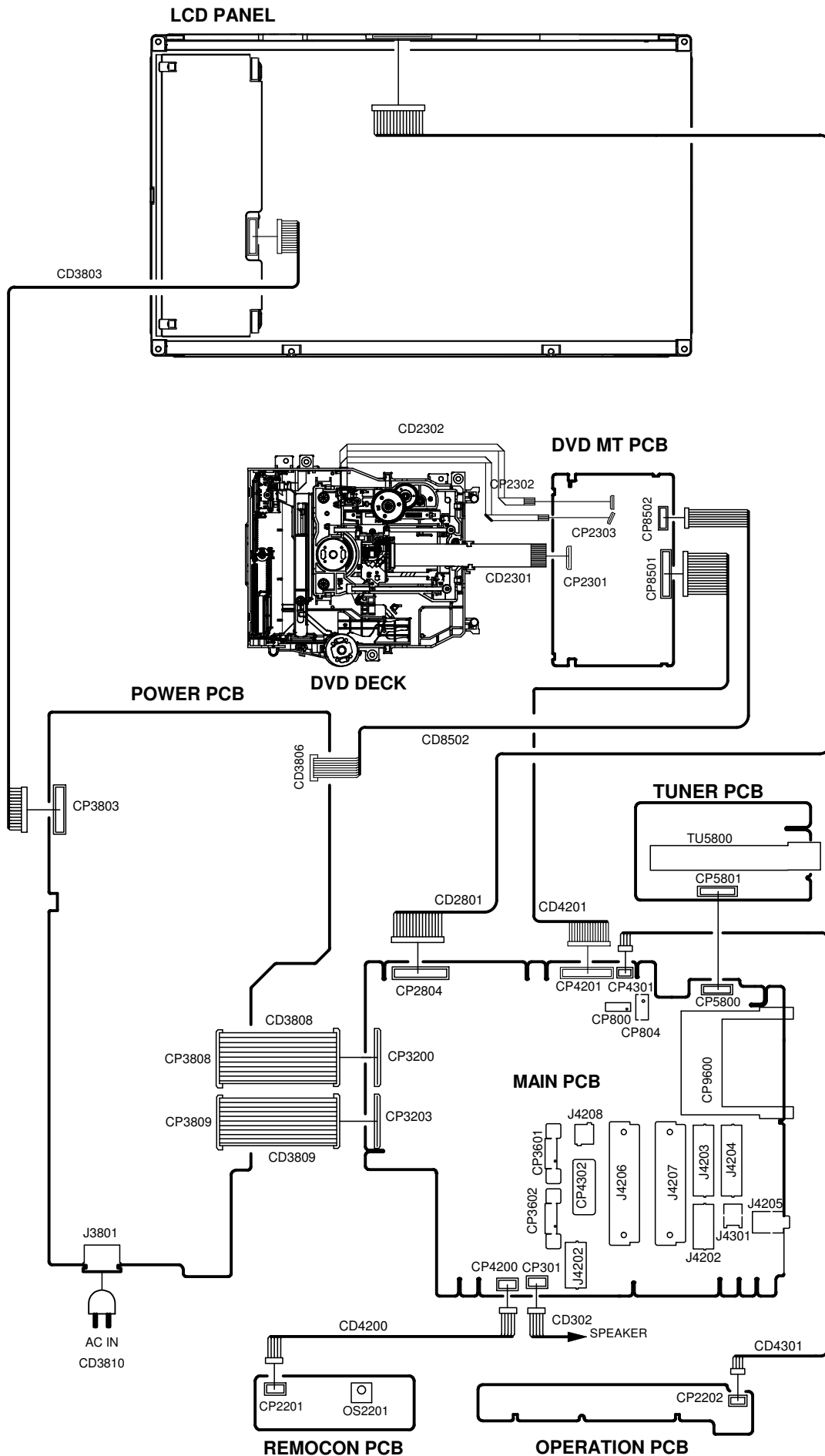


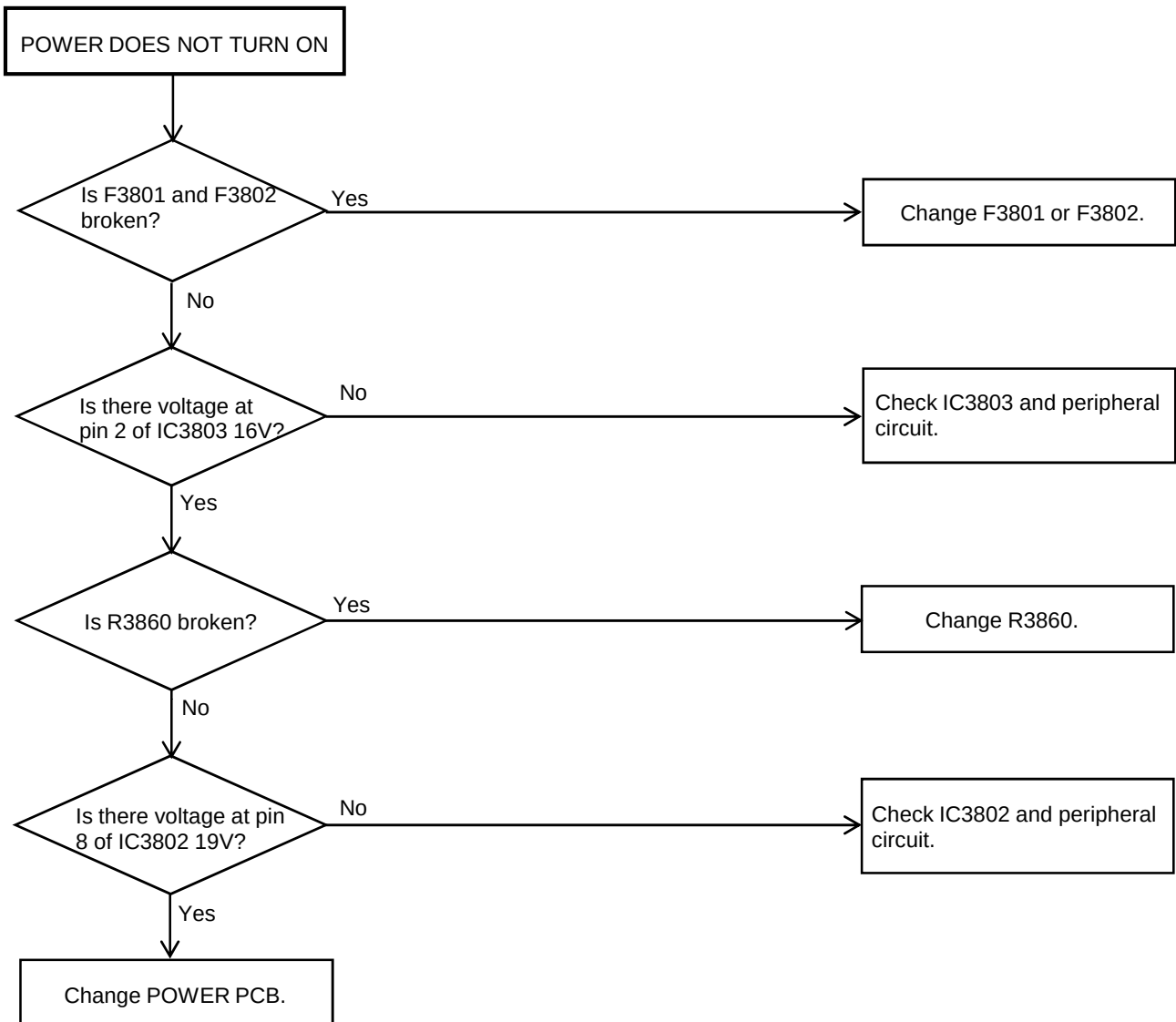
Fig. 1-3

PARTS LOCATION GUIDE (WIRING CONNECTION)

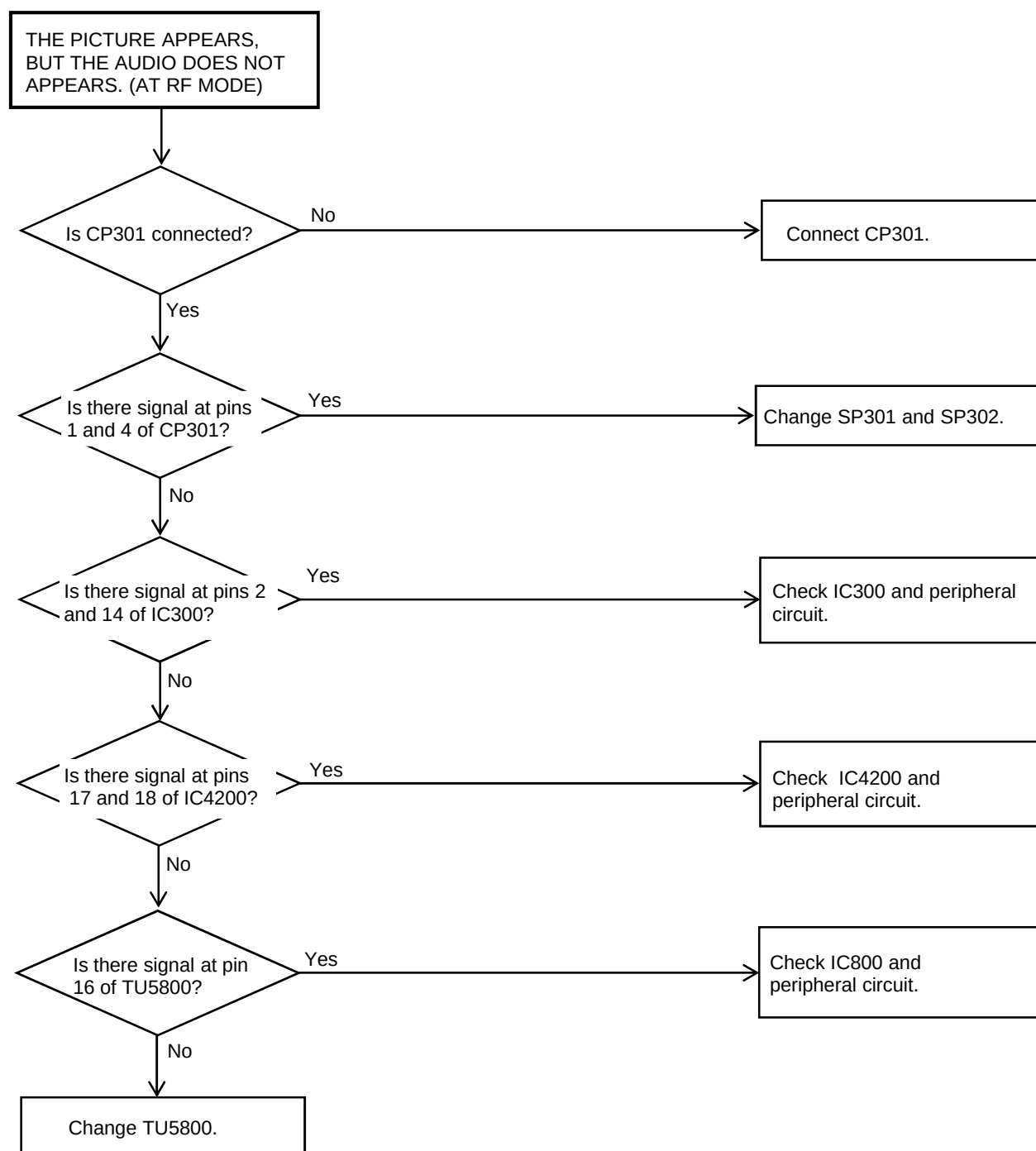


TROUBLESHOOTING GUIDE

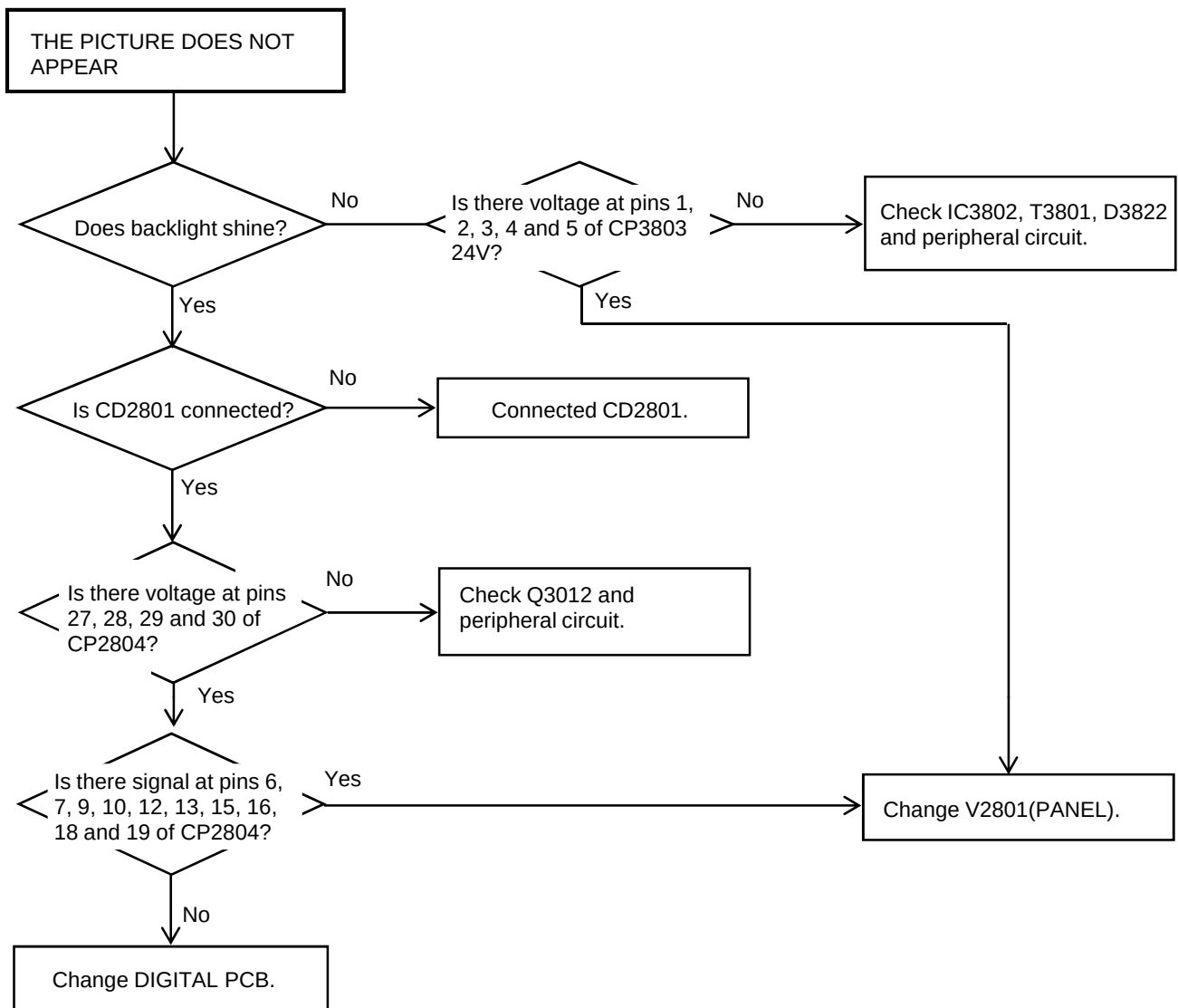
(LCD SECTION)



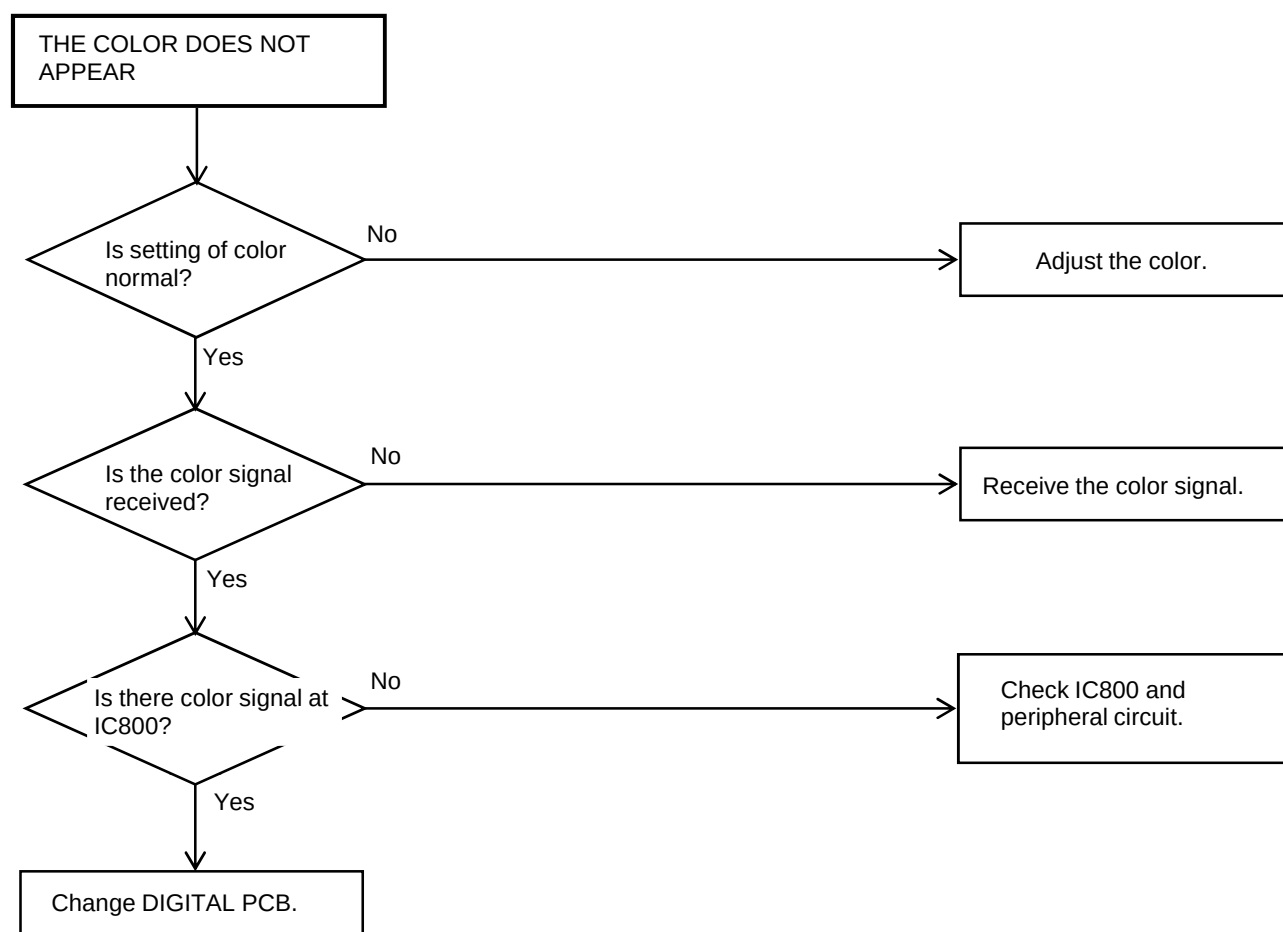
TROUBLESHOOTING GUIDE



TROUBLESHOOTING GUIDE

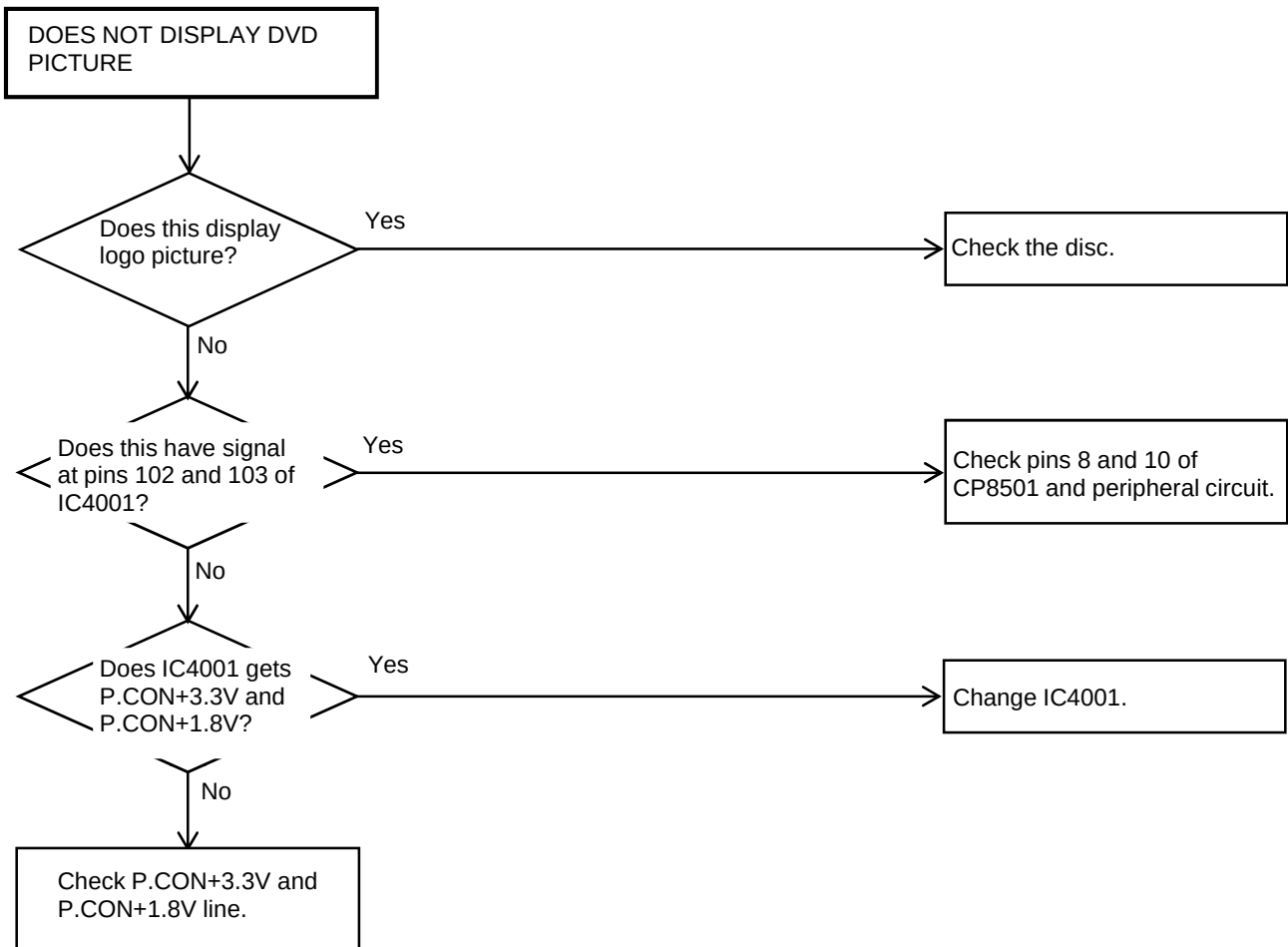


TROUBLESHOOTING GUIDE

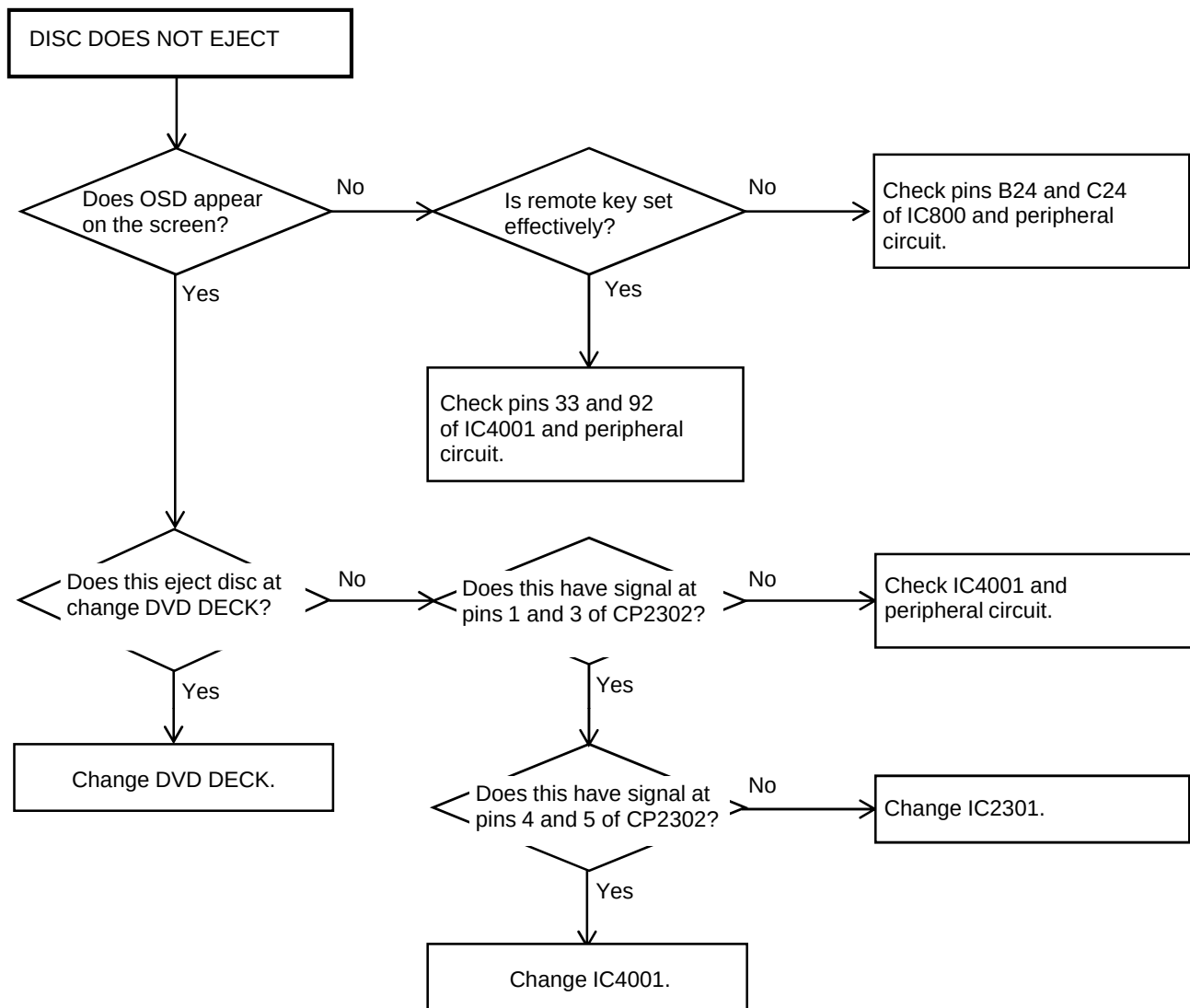


TROUBLESHOOTING GUIDE

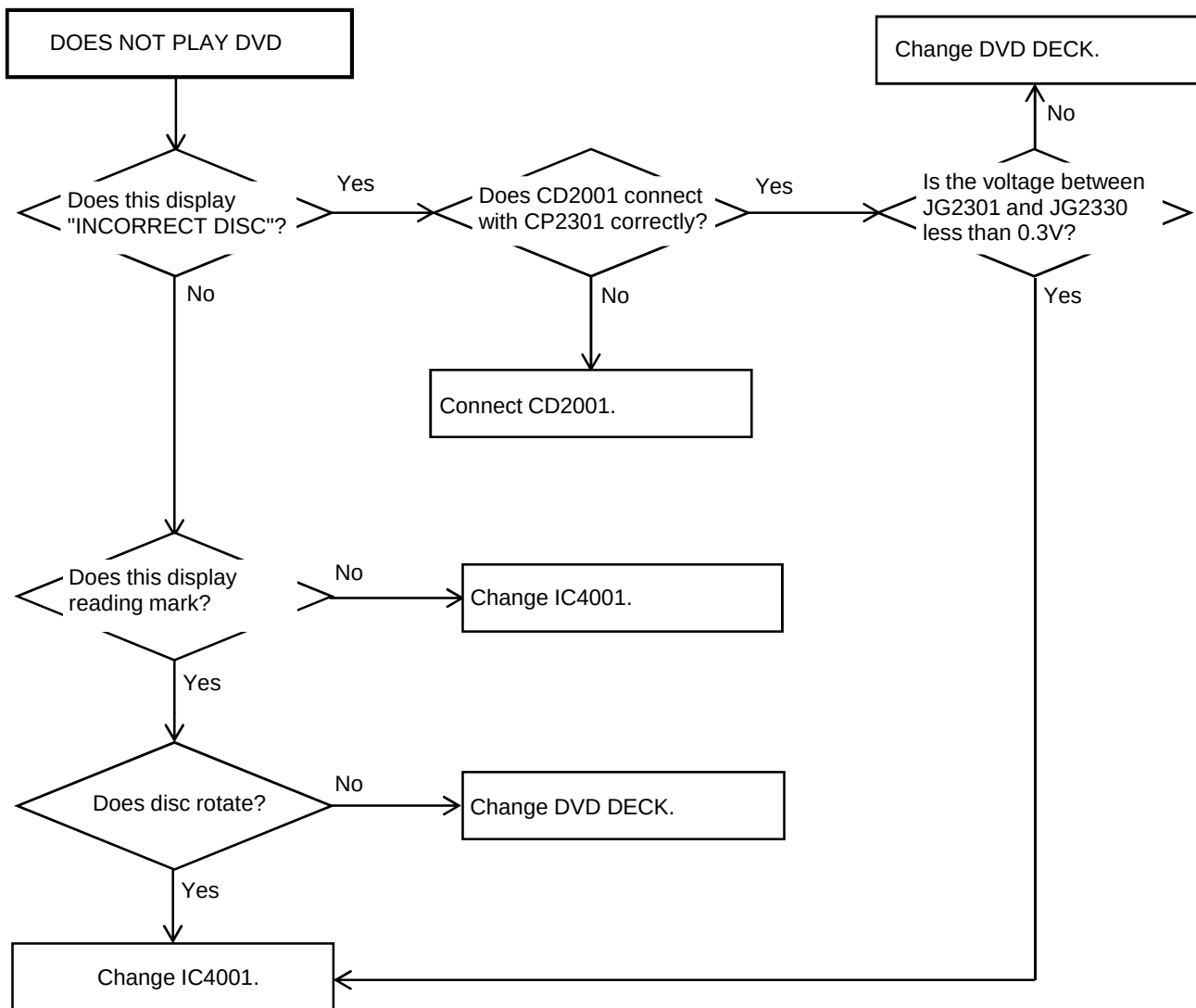
(DVD SECTION)



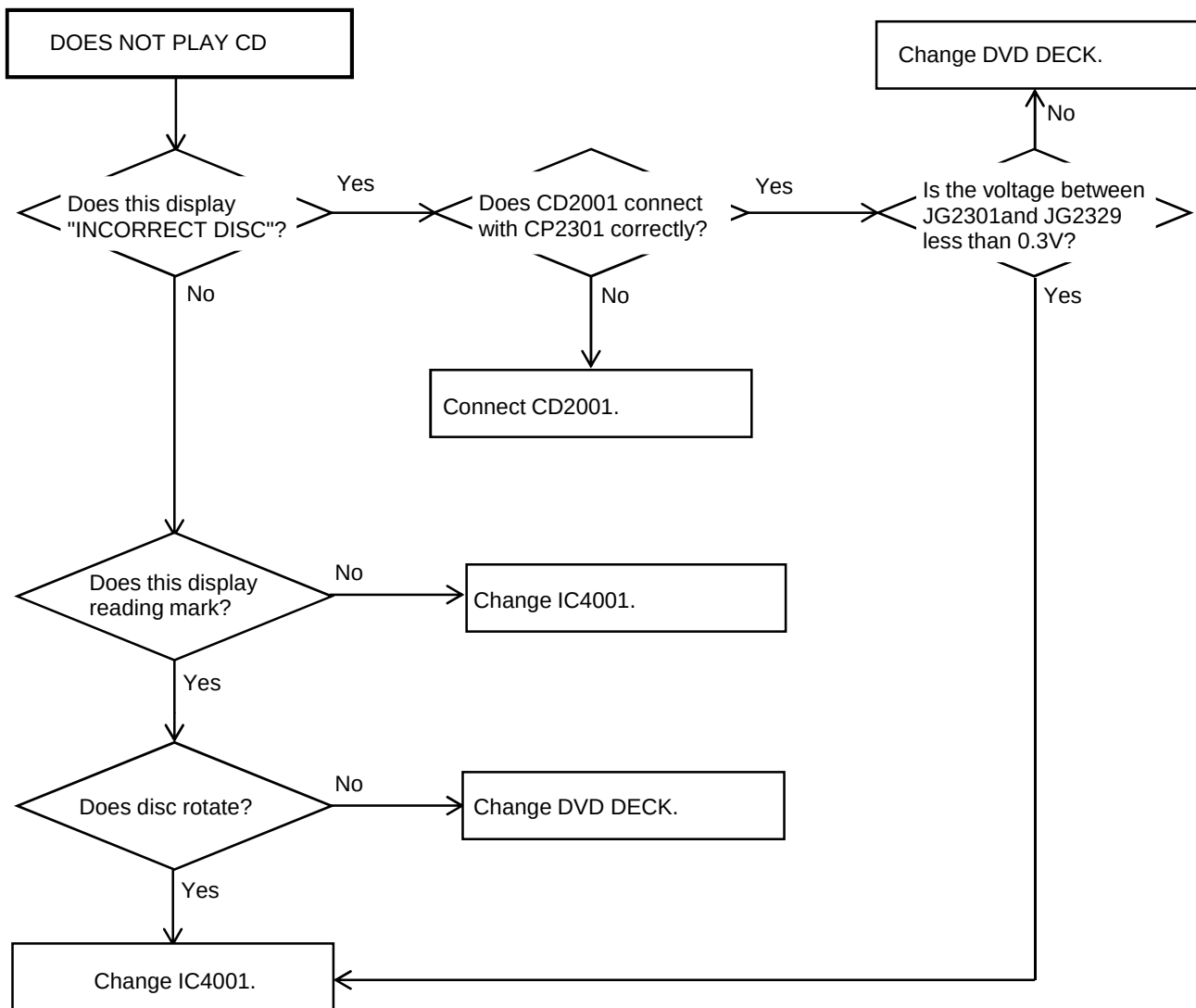
TROUBLESHOOTING GUIDE



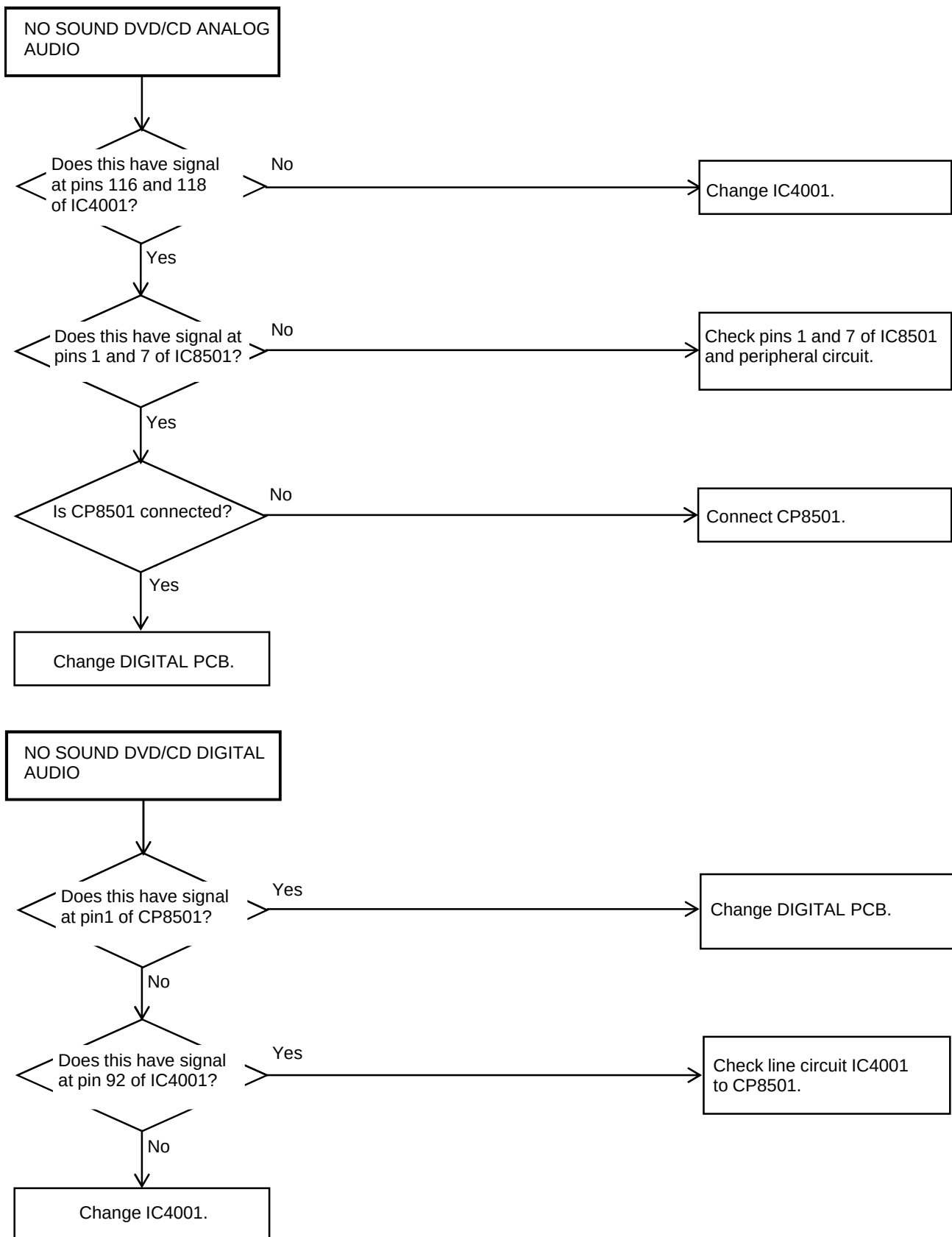
TROUBLESHOOTING GUIDE



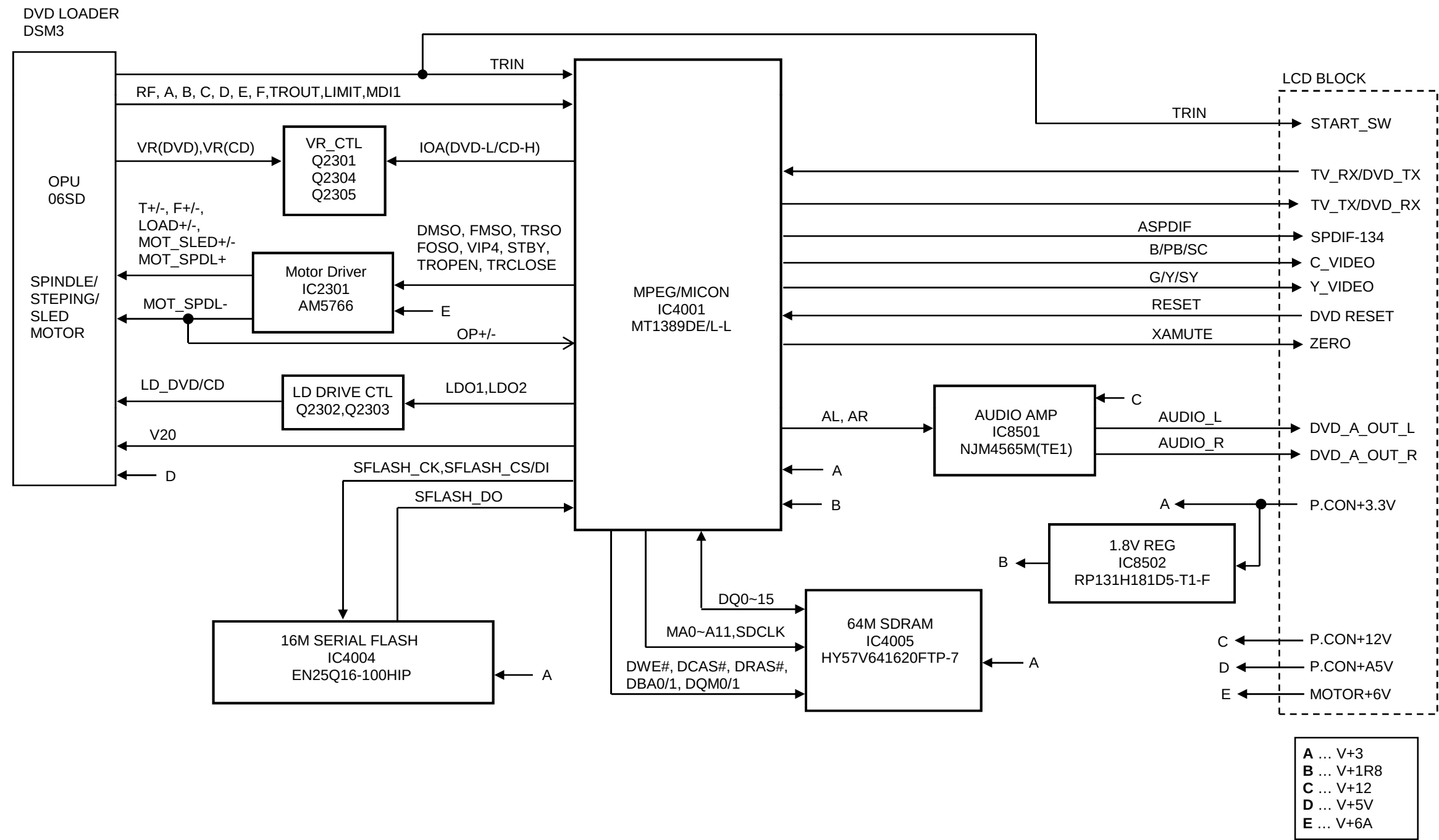
TROUBLESHOOTING GUIDE



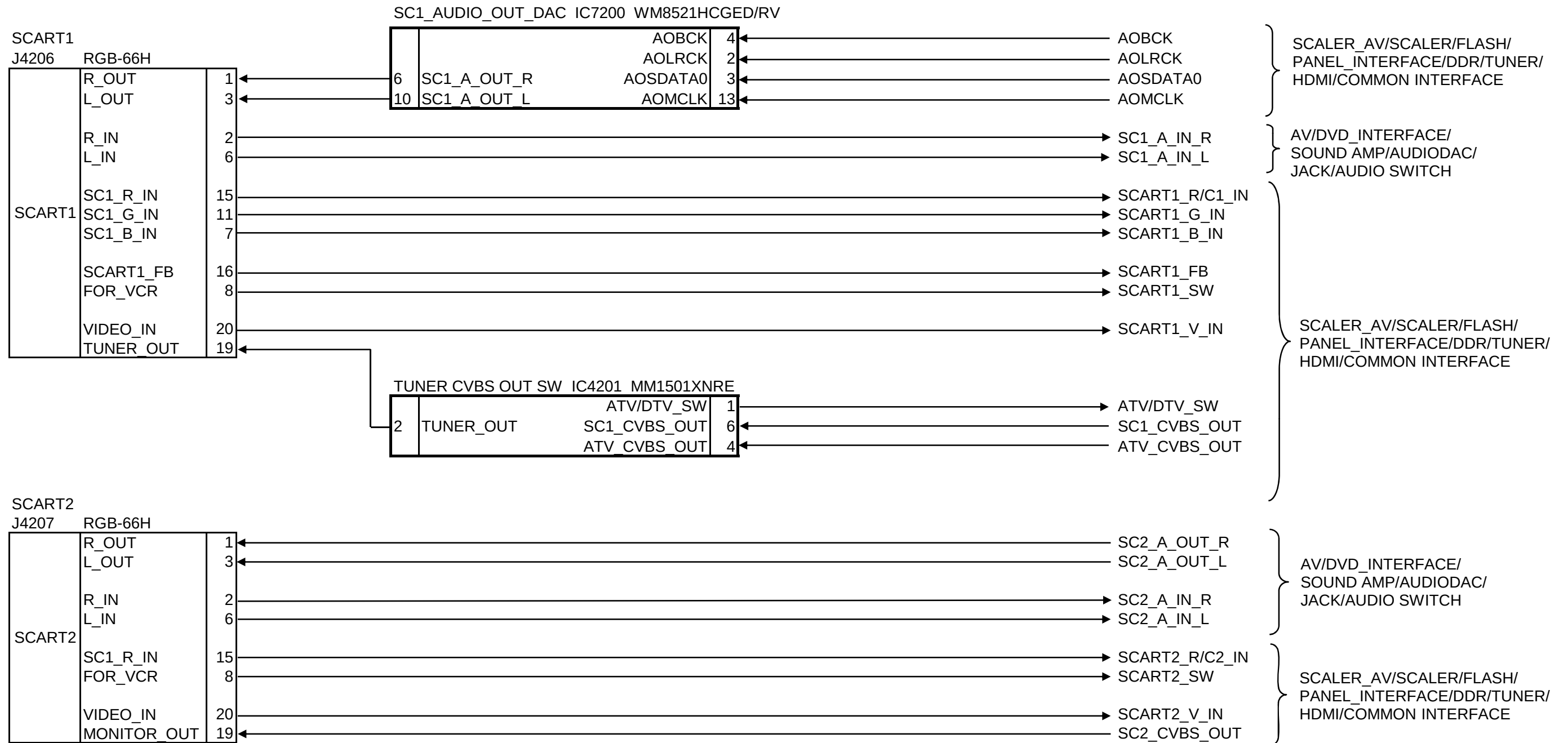
TROUBLESHOOTING GUIDE



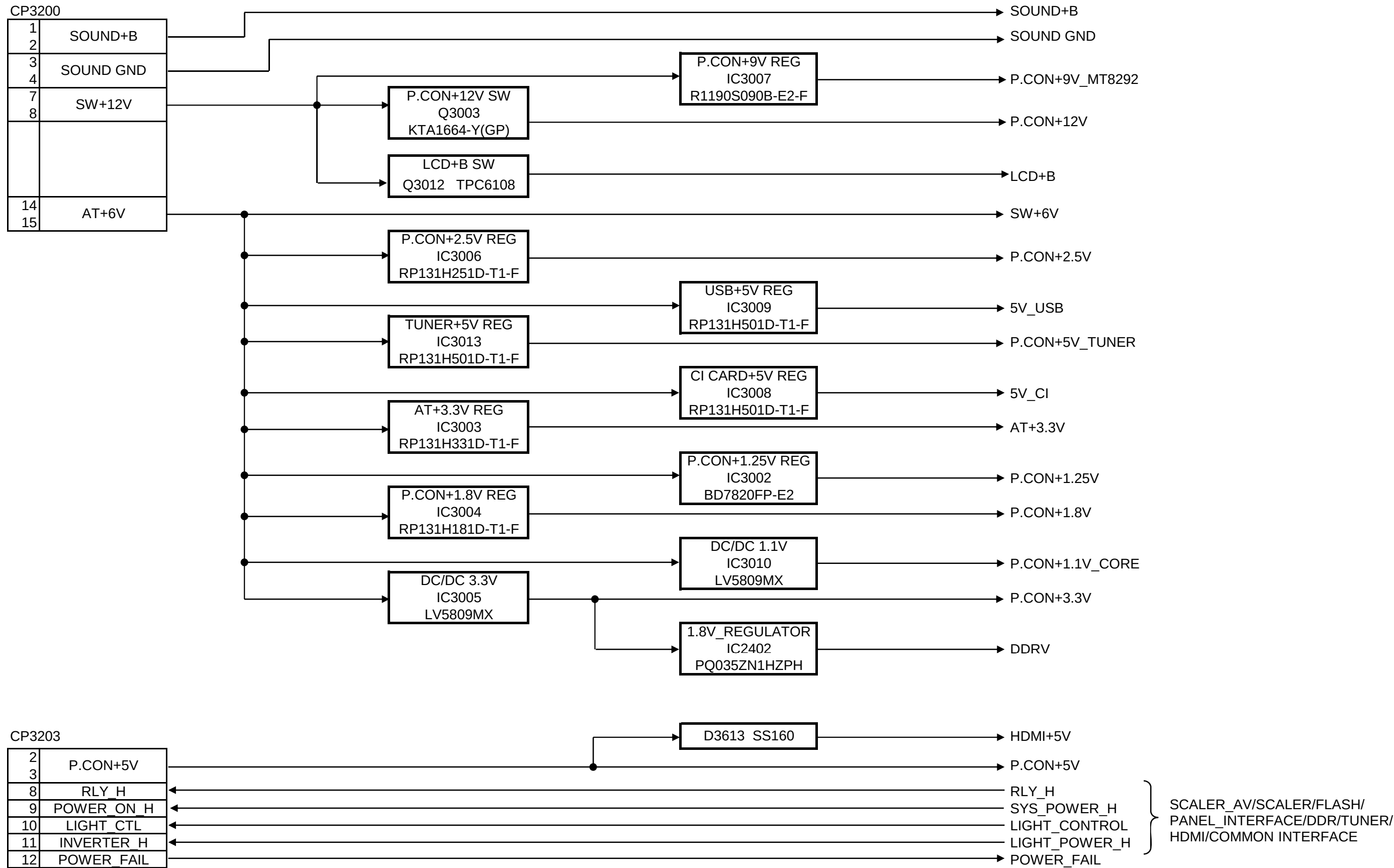
DVD BLOCK DIAGRAM



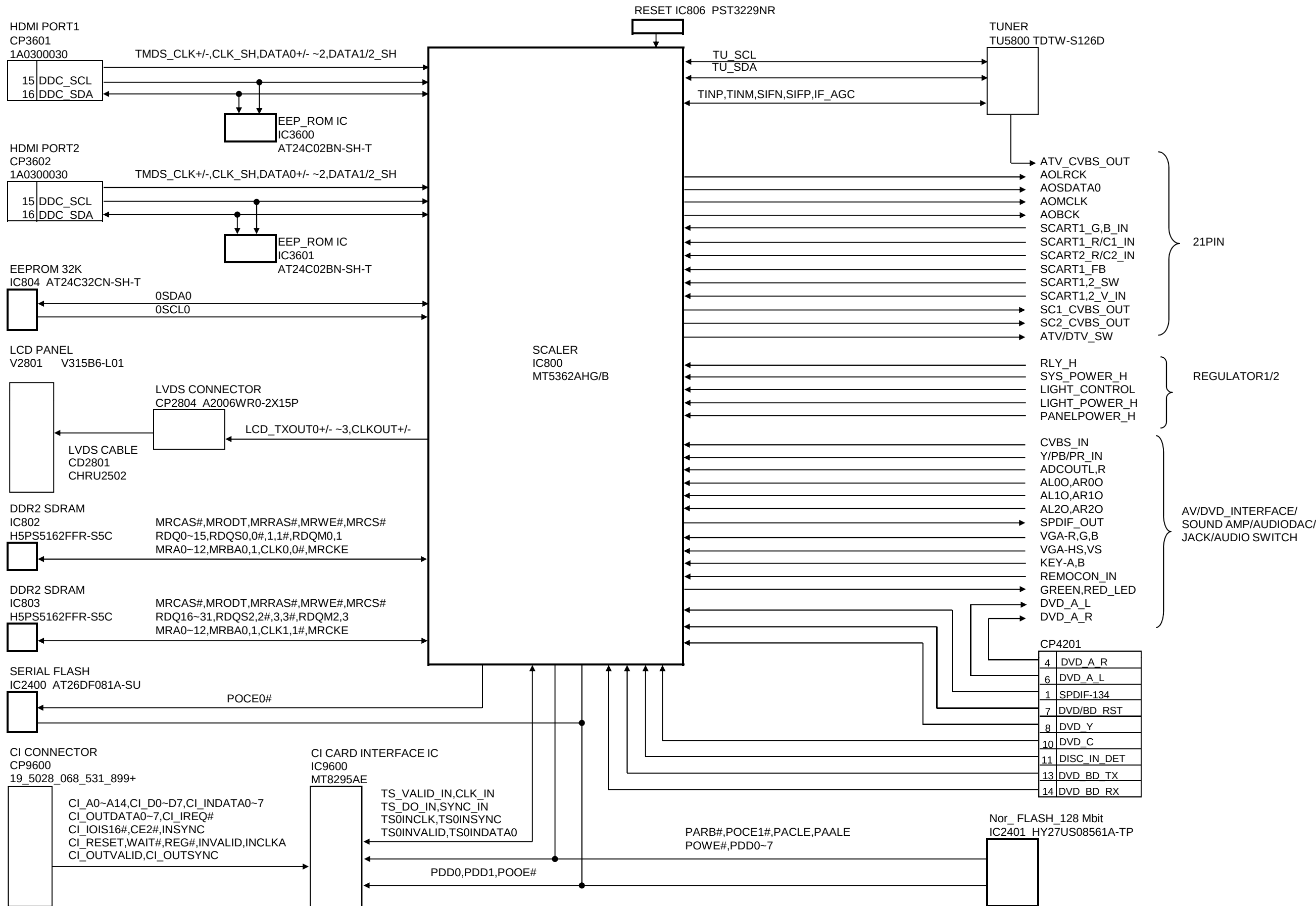
21PIN BLOCK DIAGRAM



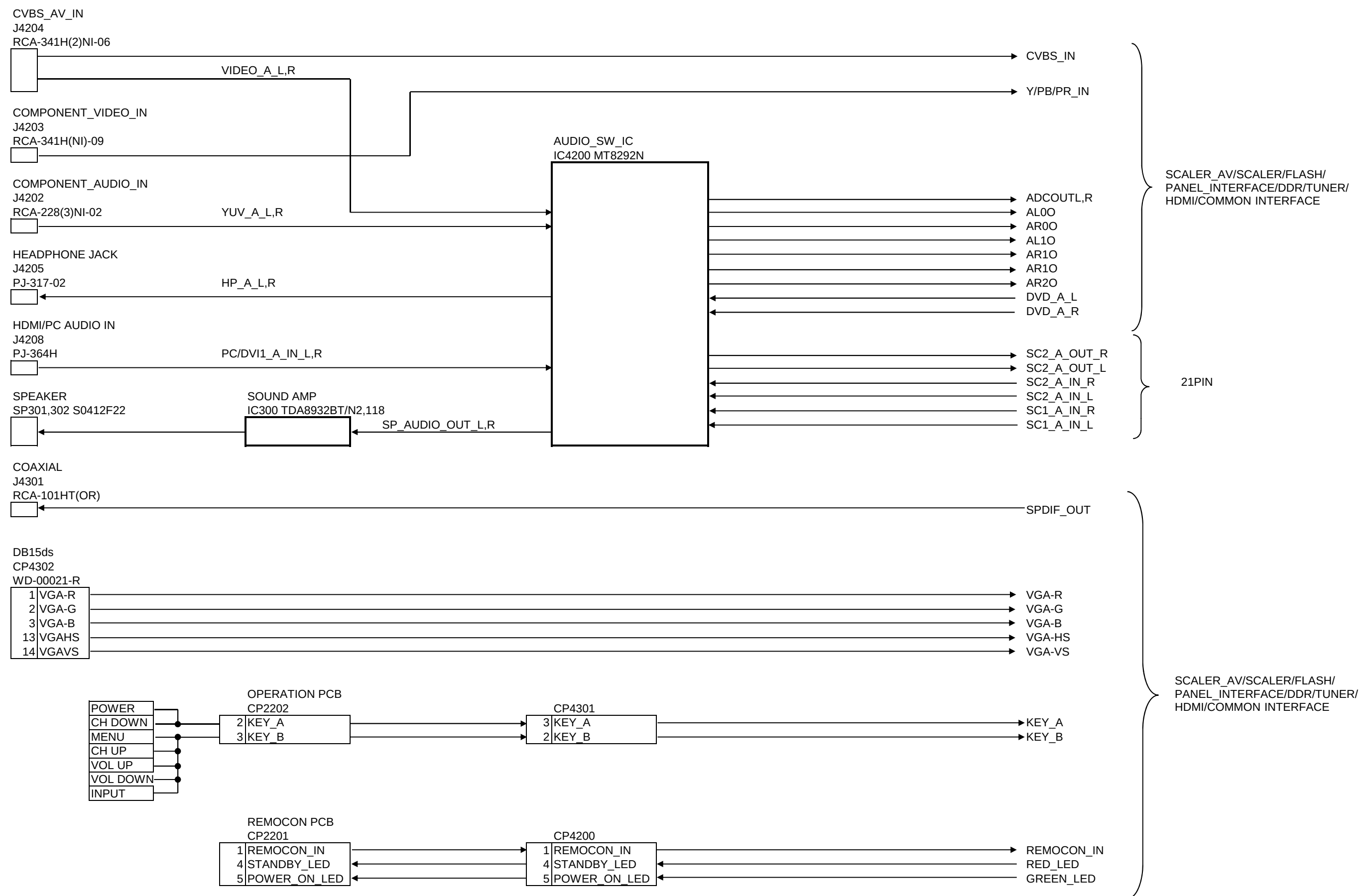
REGULATOR2/3 BLOCK DIAGRAM



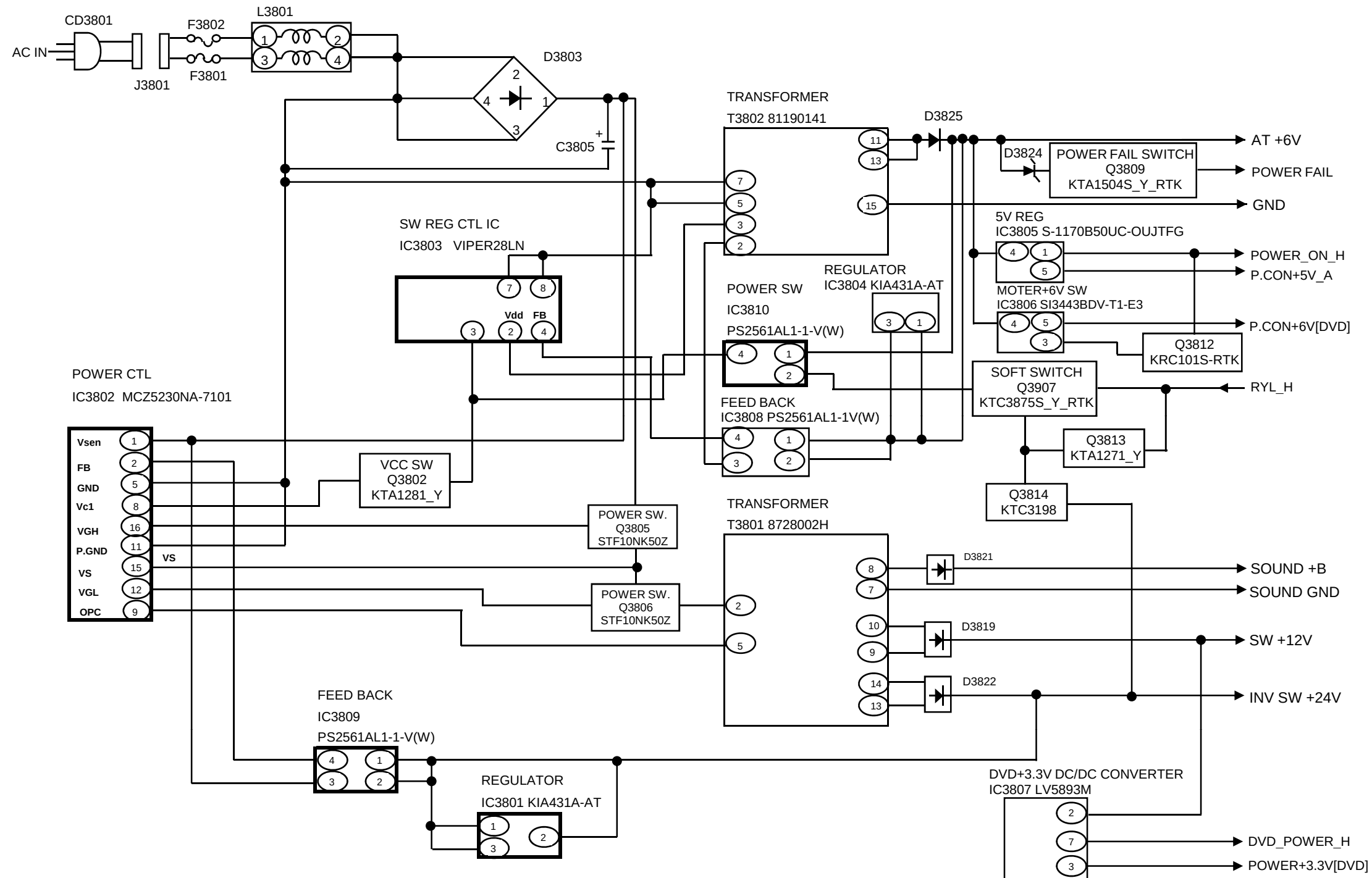
SCALER_AV/SCALER/FLASH/PANEL_INTERFACE/DDR/TUNER/HDMI/COMMON INTERFACE BLOCK DIAGRAM



AV/DVD_INTERFACE/SOUND AMP/AUDIO DAC/JACK/AUDIO SWITCH BLOCK DIAGRAM

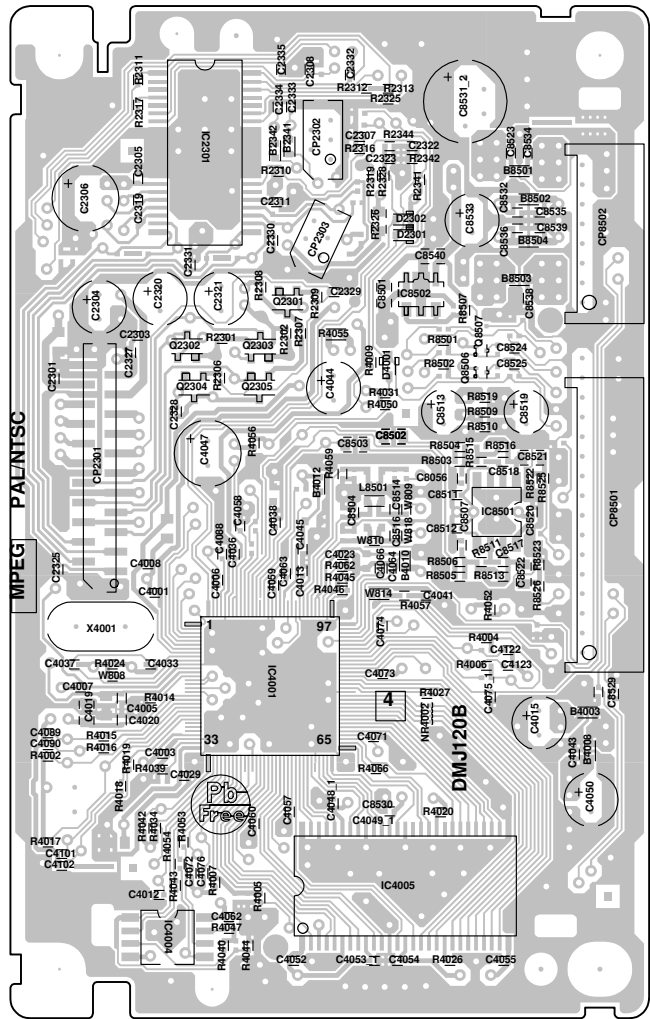


POWER BLOCK DIAGRAM

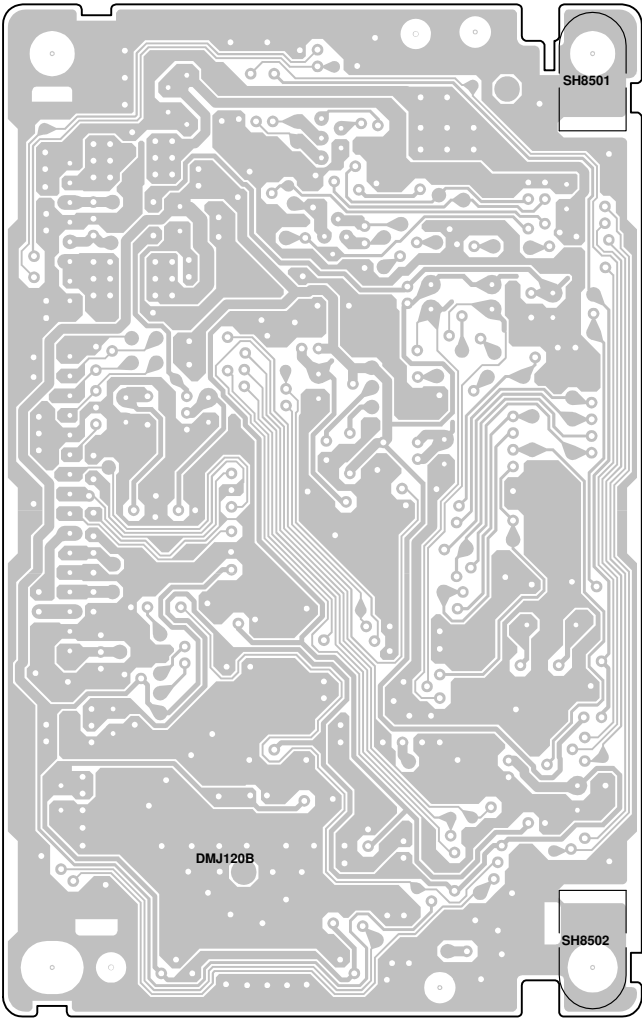


PRINTED CIRCUIT BOARDS

DVD MT (TOP SIDE)

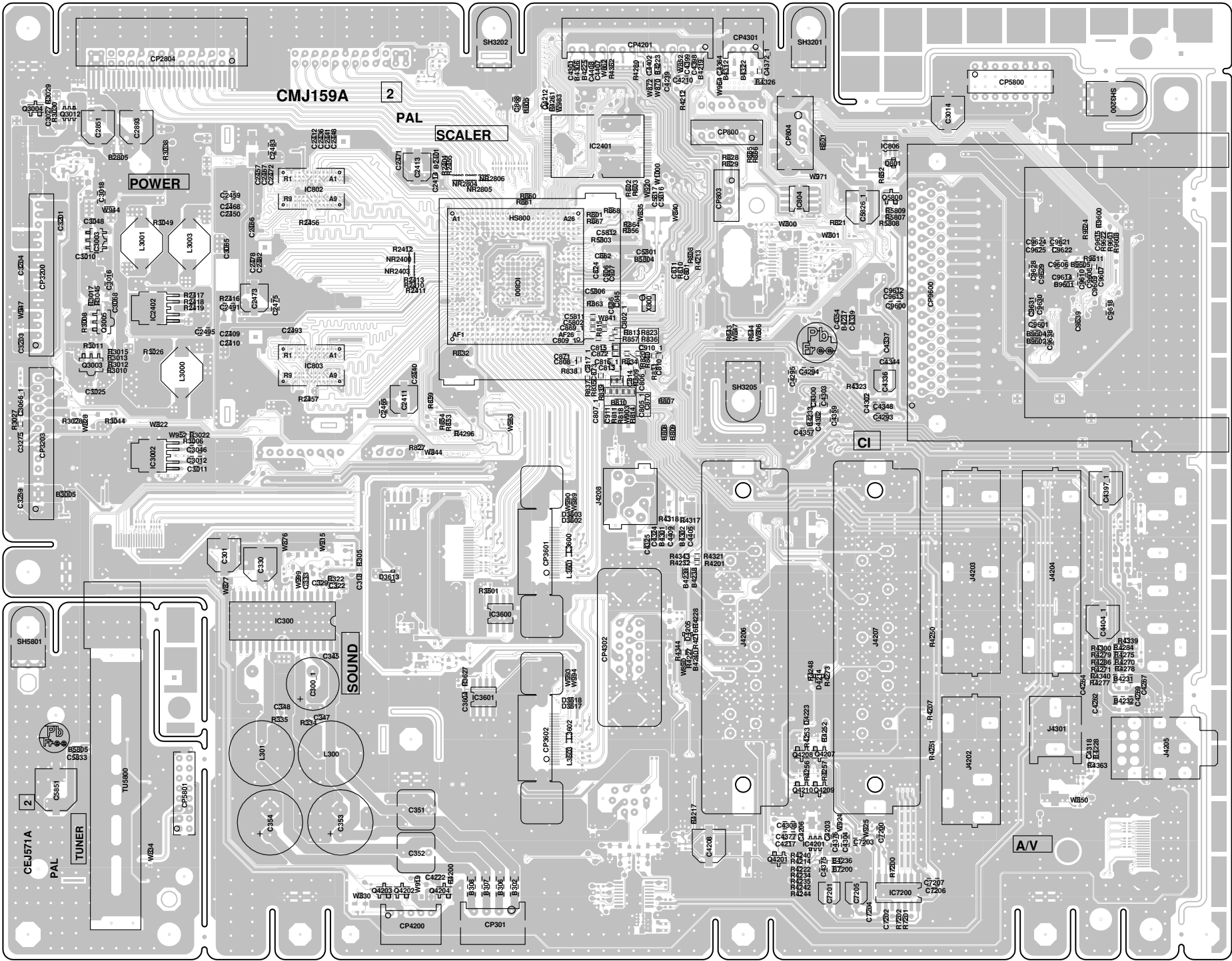


DVD MT (BOTTOM SIDE)



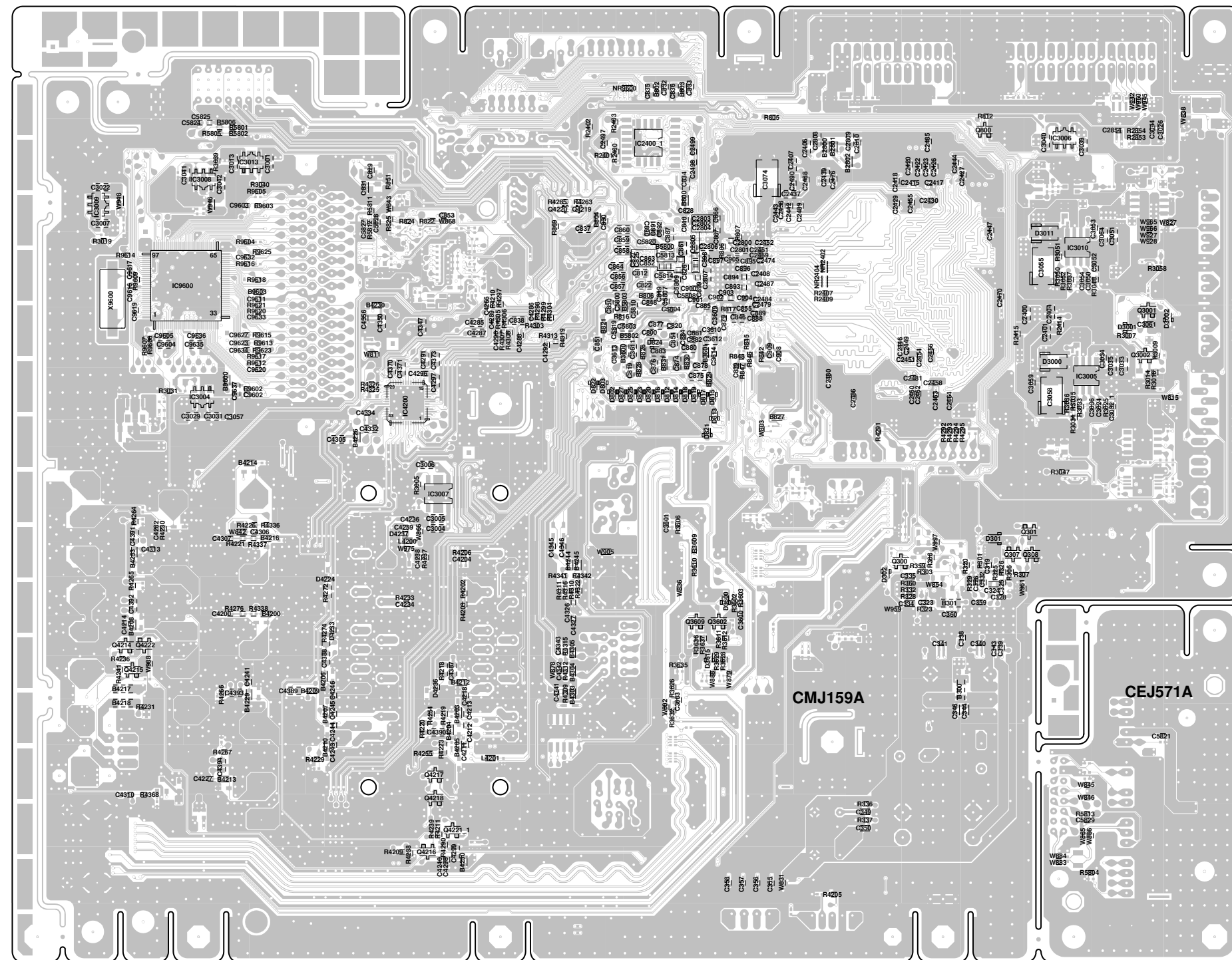
PRINTED CIRCUIT BOARDS

MAIN/TUNER (TOP SIDE)

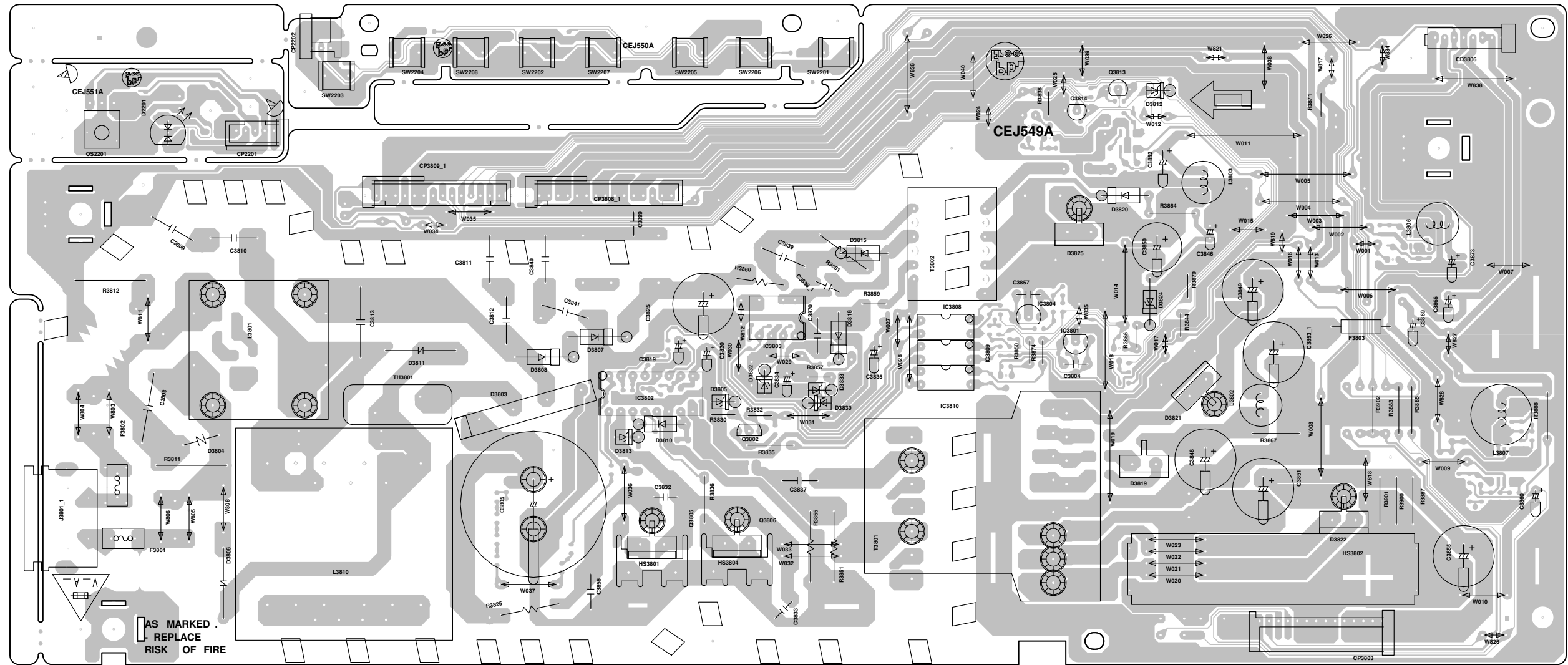


PRINTED CIRCUIT BOARDS

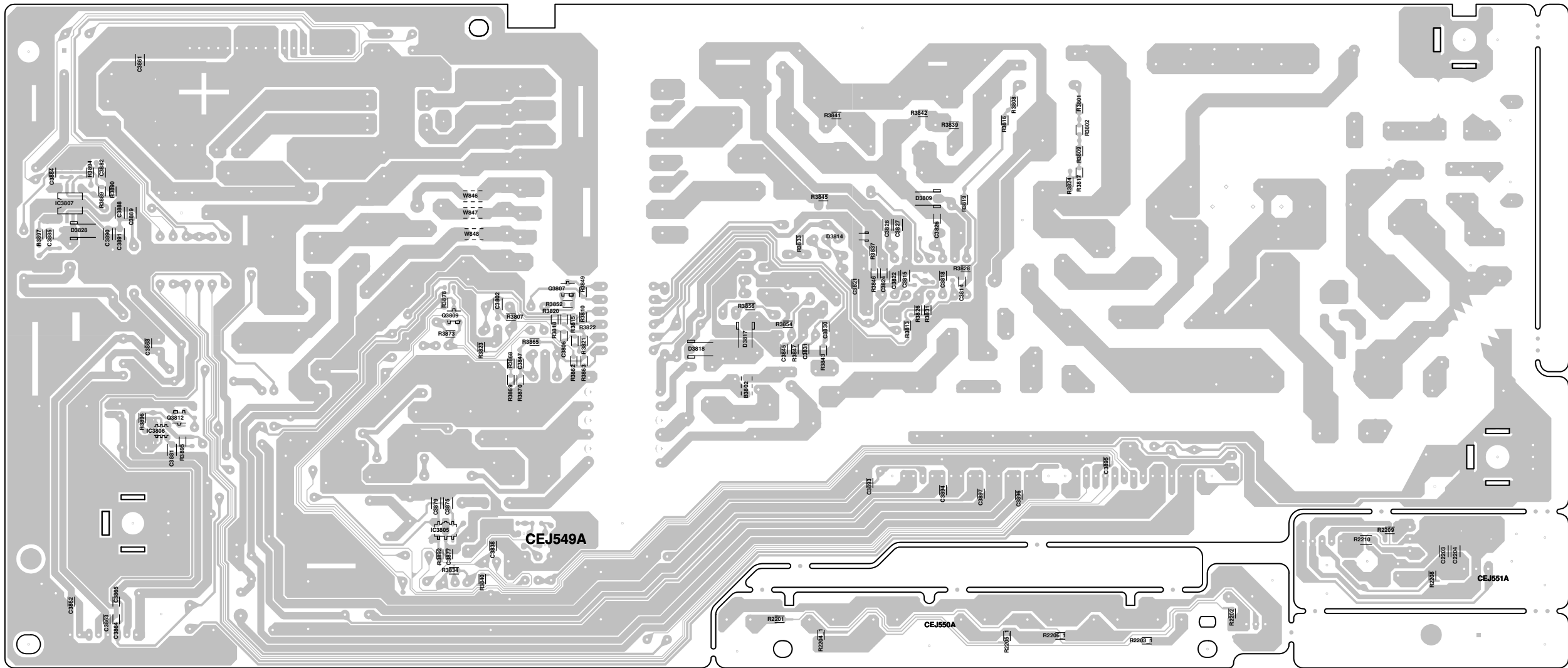
MAIN/TUNER (BOTTOM SIDE)



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

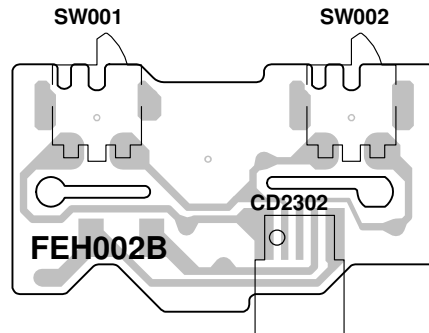


PRINTED CIRCUIT BOARDS
POWER/OPERATION/REMOCON (CHIP MOUNTED PARTS)
SOLDER SIDE

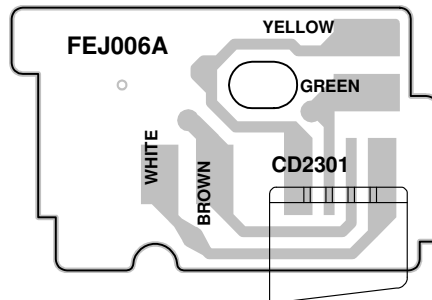


PRINTED CIRCUIT BOARDS

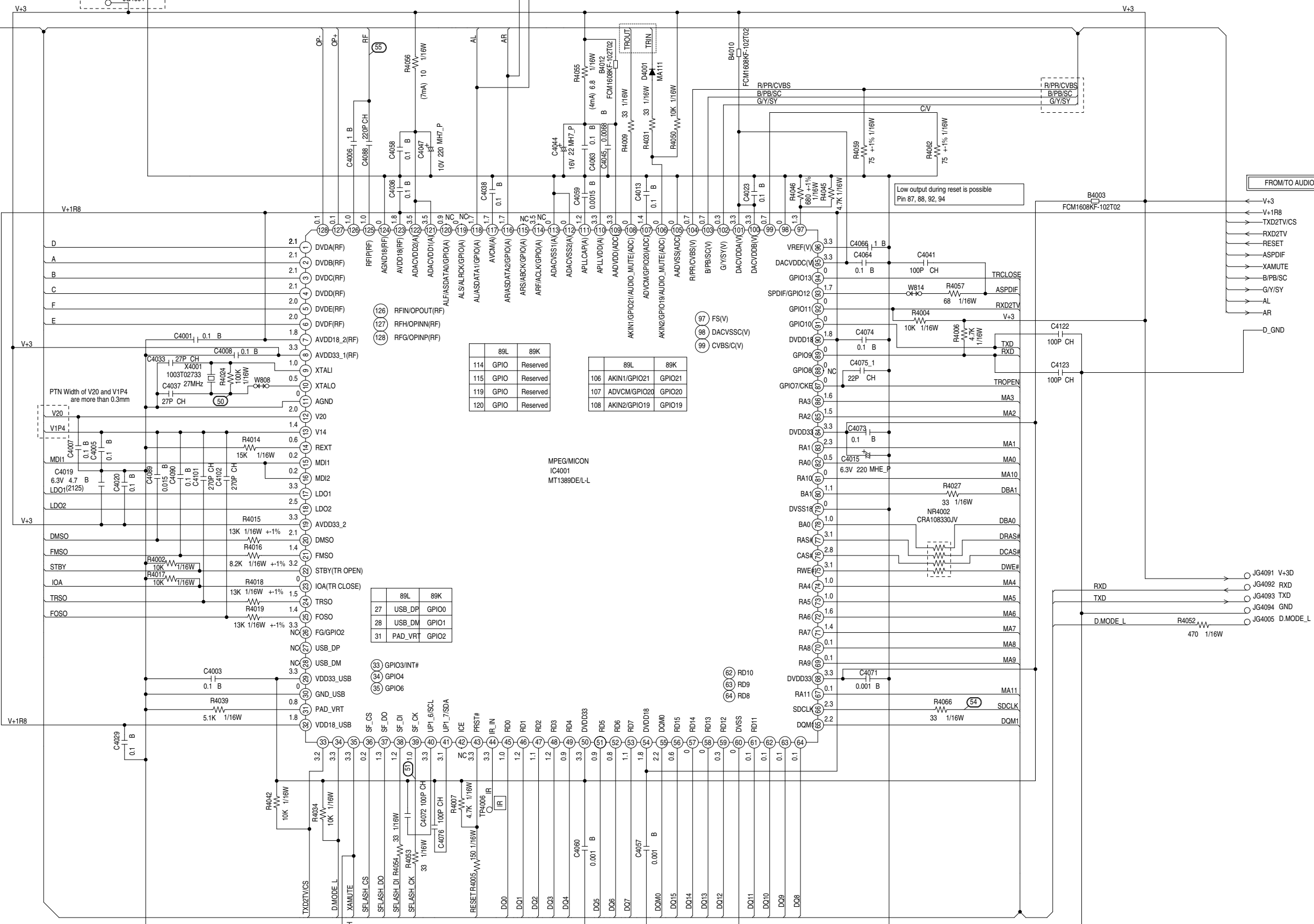
LOADING MOTOR SOLDER SIDE



PCB SOLDER SIDE

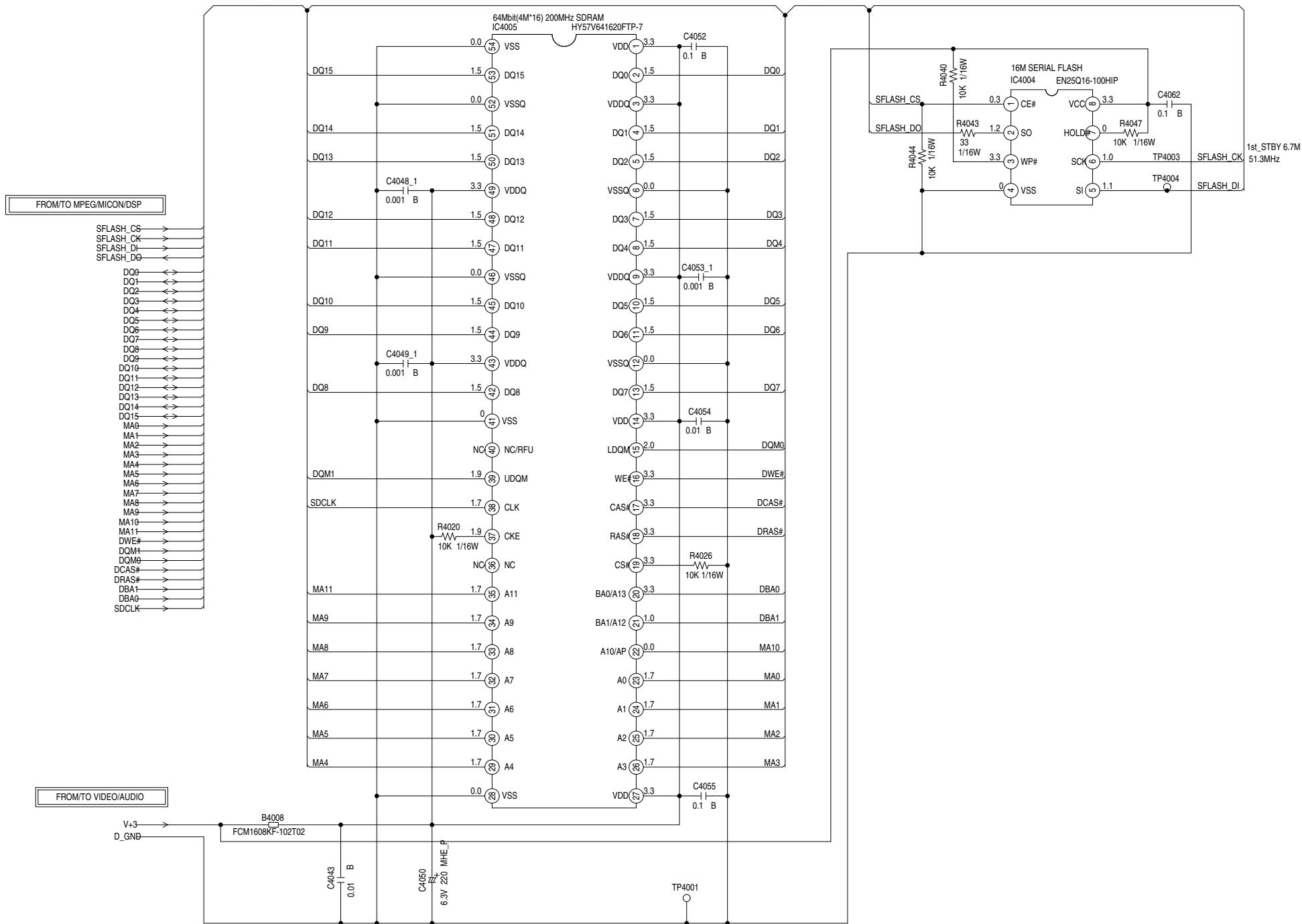


(DVD PCB)



NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

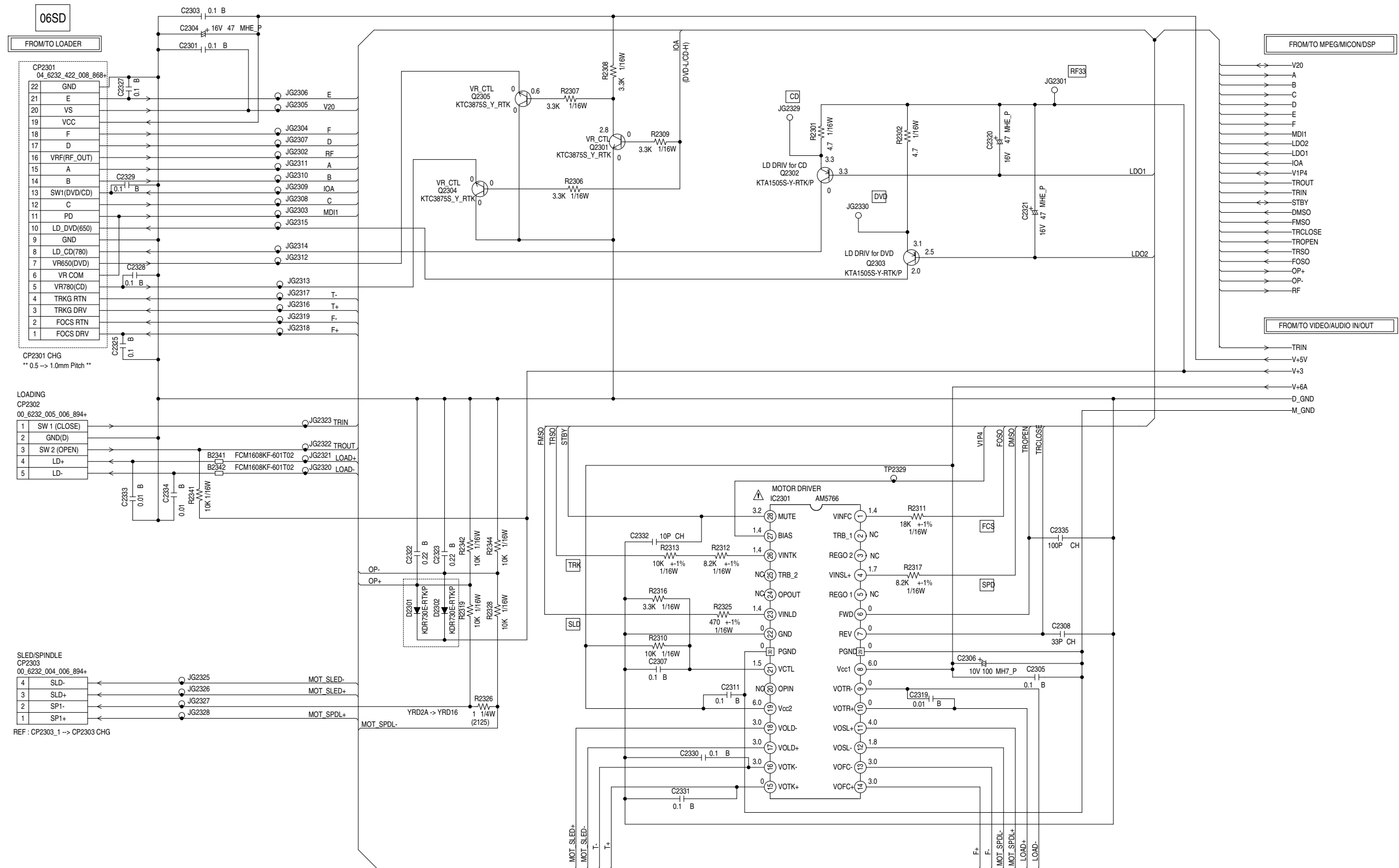
MEMORY/SD CARD SCHEMATIC DIAGRAM
(DVD PCB)



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

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

LOADER/MOTOR DRV SCHEMATIC DIAGRAM (DVD PCB)



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

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

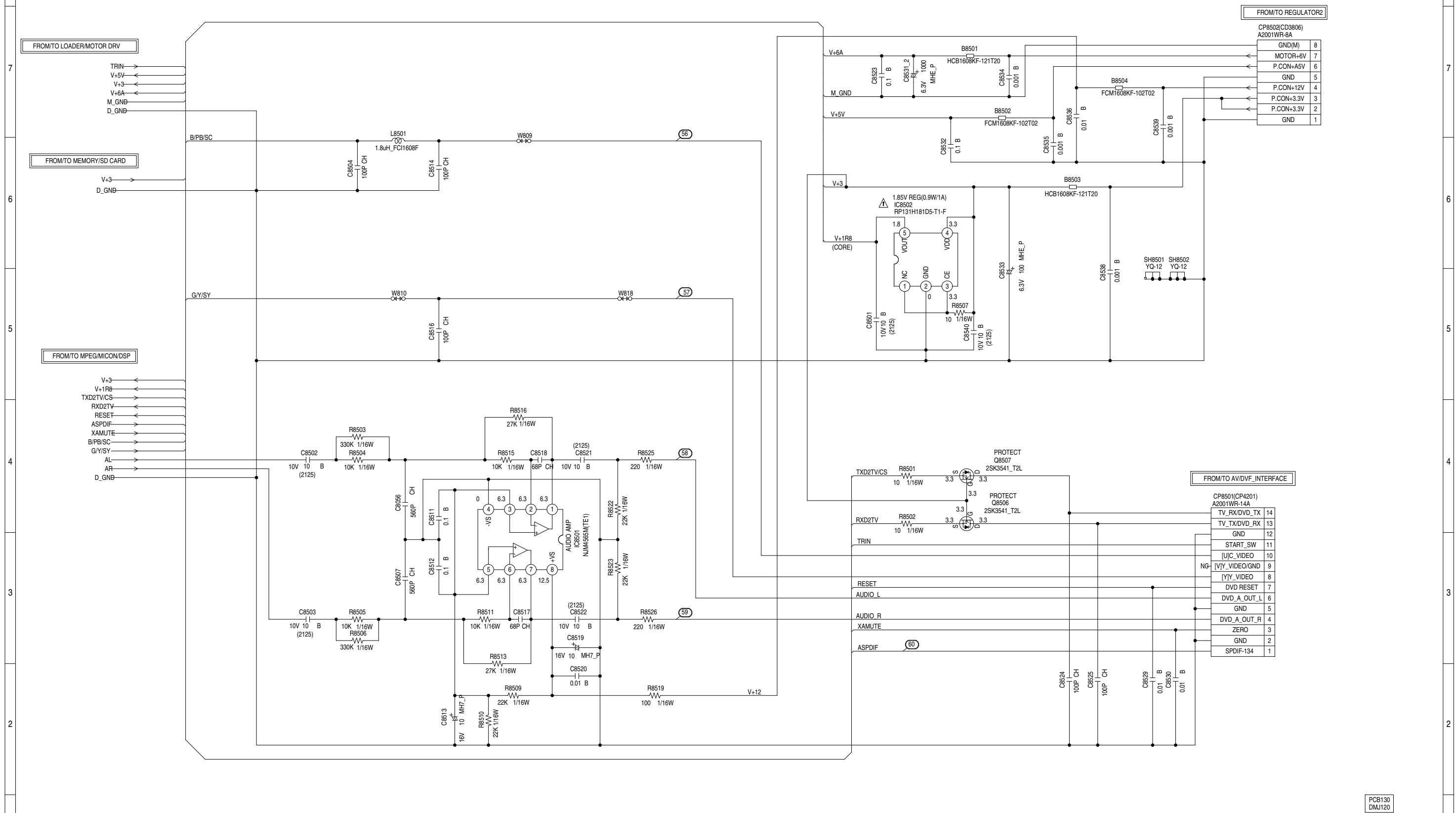
ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

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

PCB130
DMJ120

VIDEO/AUDIO IN/OUT SCHEMATIC DIAGRAM

(DVD PCB)

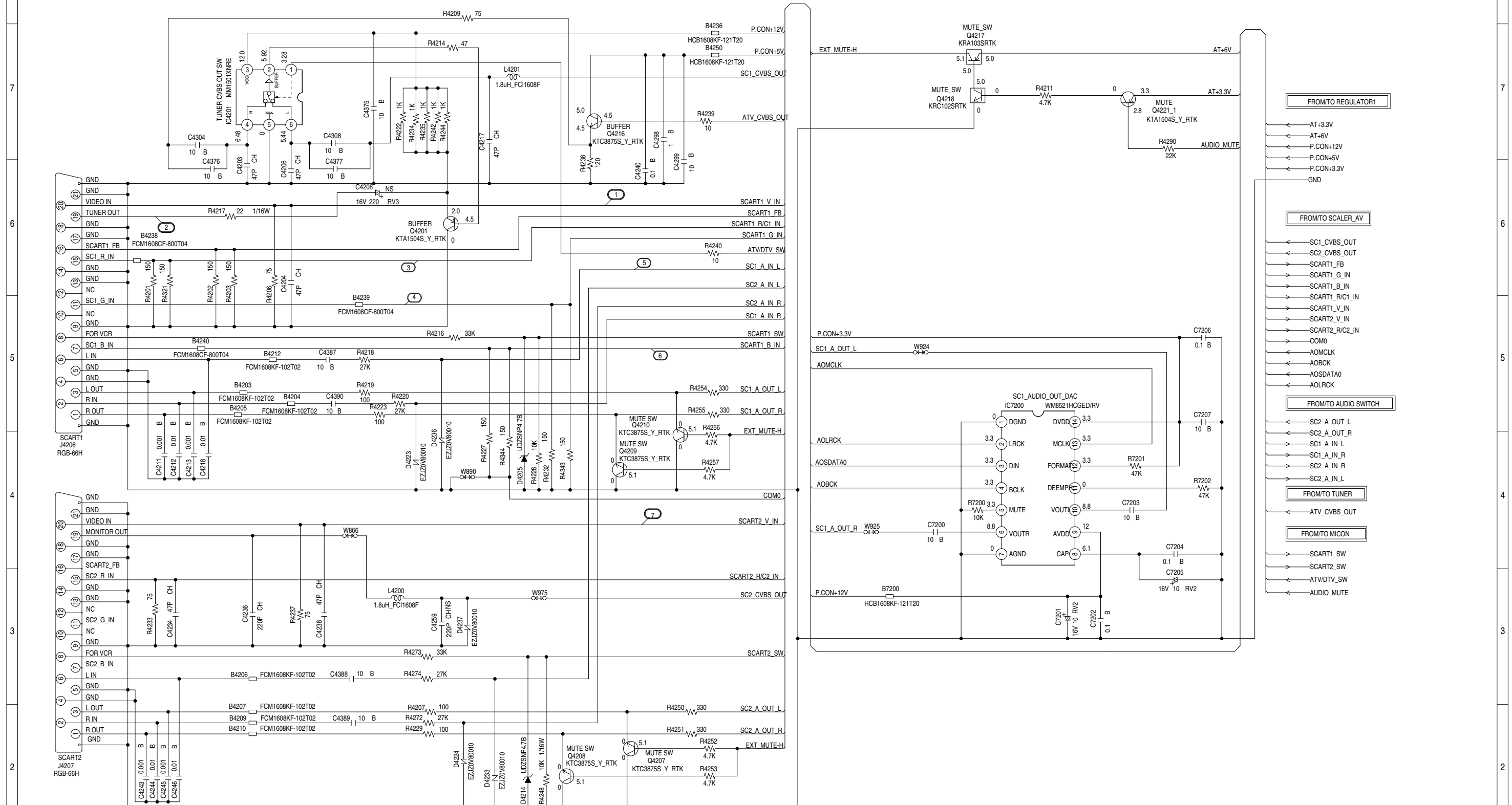


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

NOTE:THE DC VOLTAGE EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING PLAYBACK.

21PIN SCHEMATIC DIAGRAM

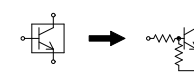
(MAIN PCB)



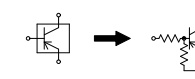
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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

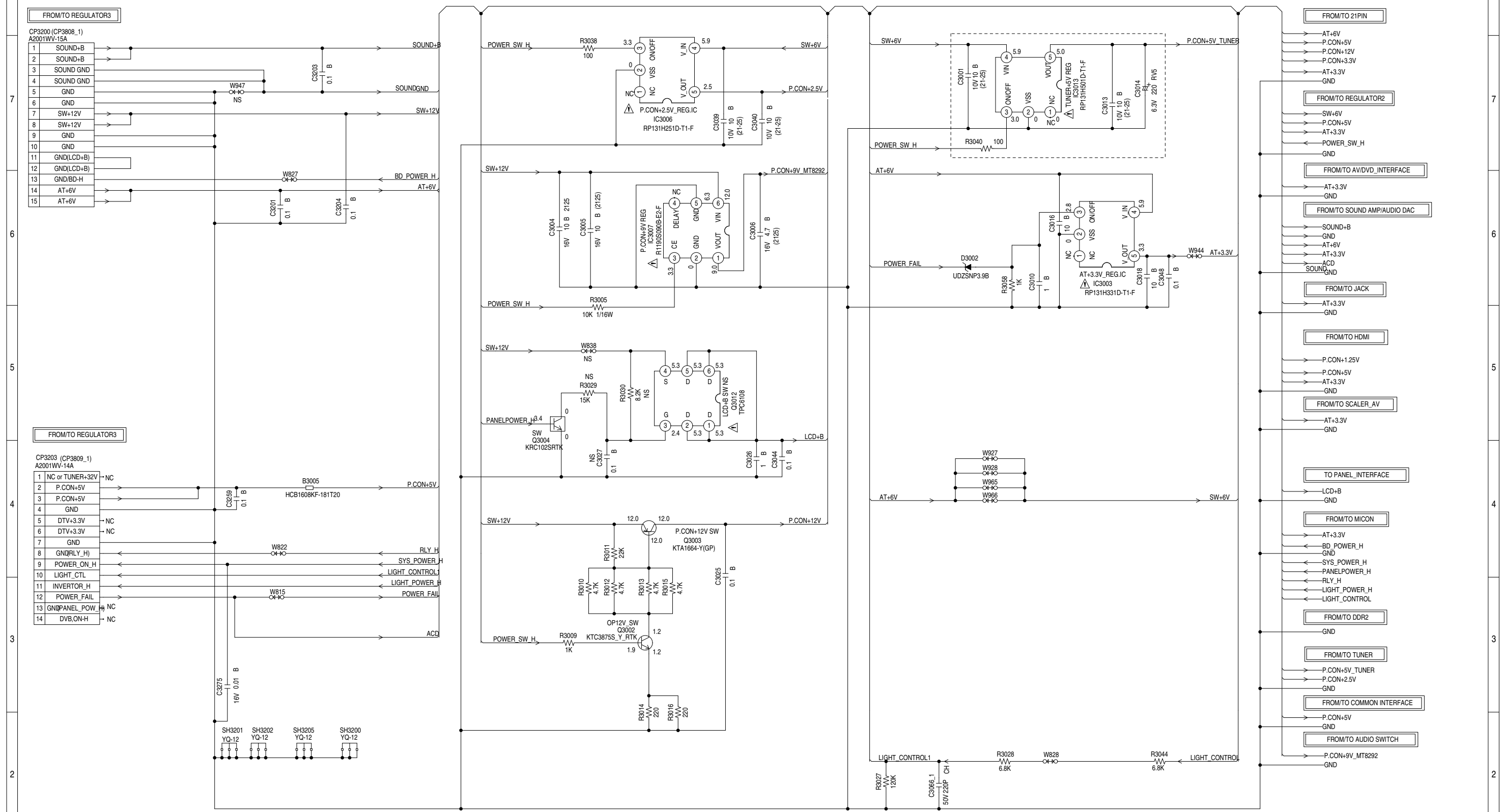


CAUTION: DIGITAL TRANSISTOR



PCBF40
CMJ159

REGULATOR SCHEMATIC DIAGRAM
(MAIN 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.

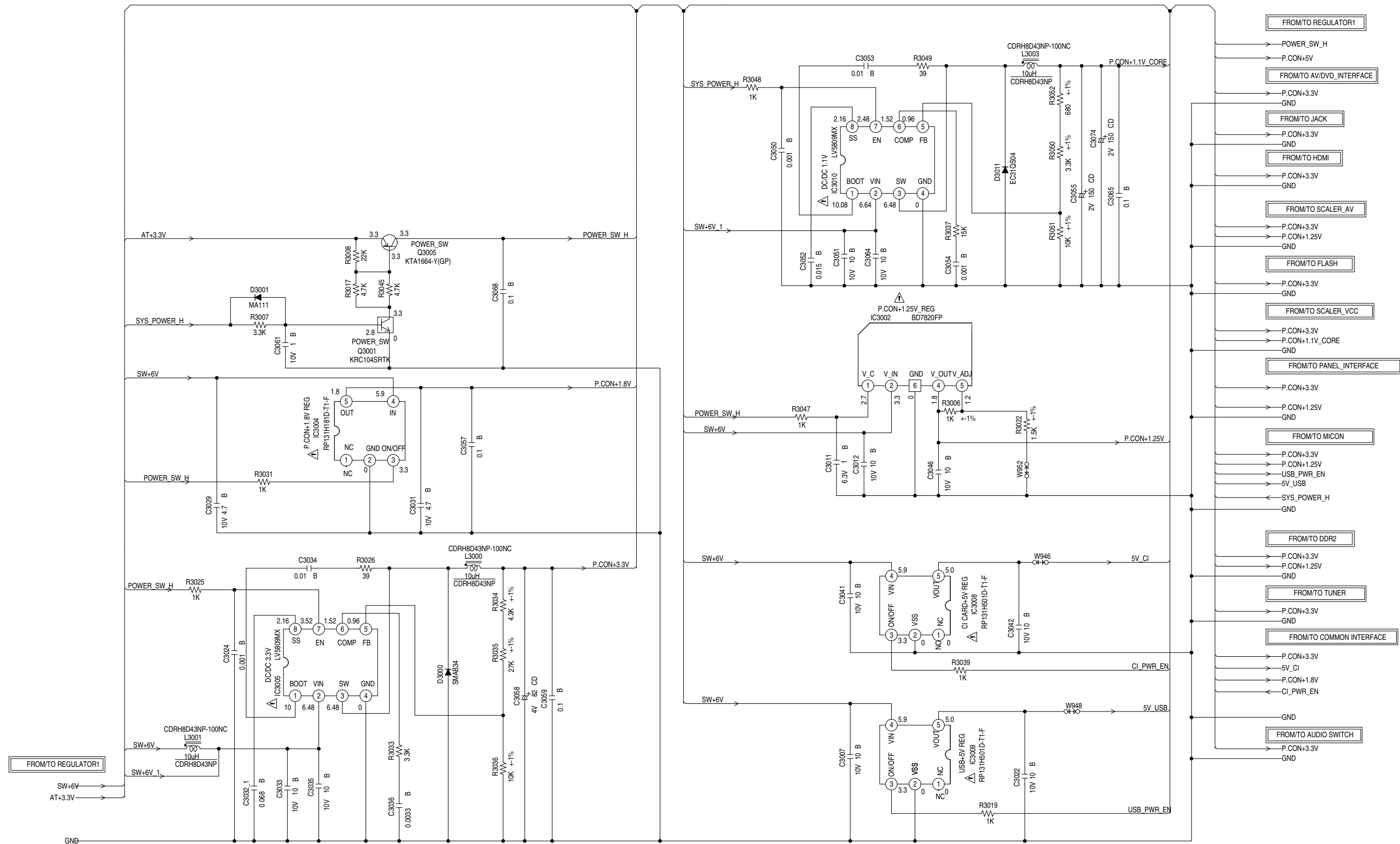
ATTENTION LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

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

CAUTION: DIGITAL TRANSISTOR

PCB40
CMJ159

REGULATOR2 SCHEMATIC DIAGRAM
(MAIN PCB)



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

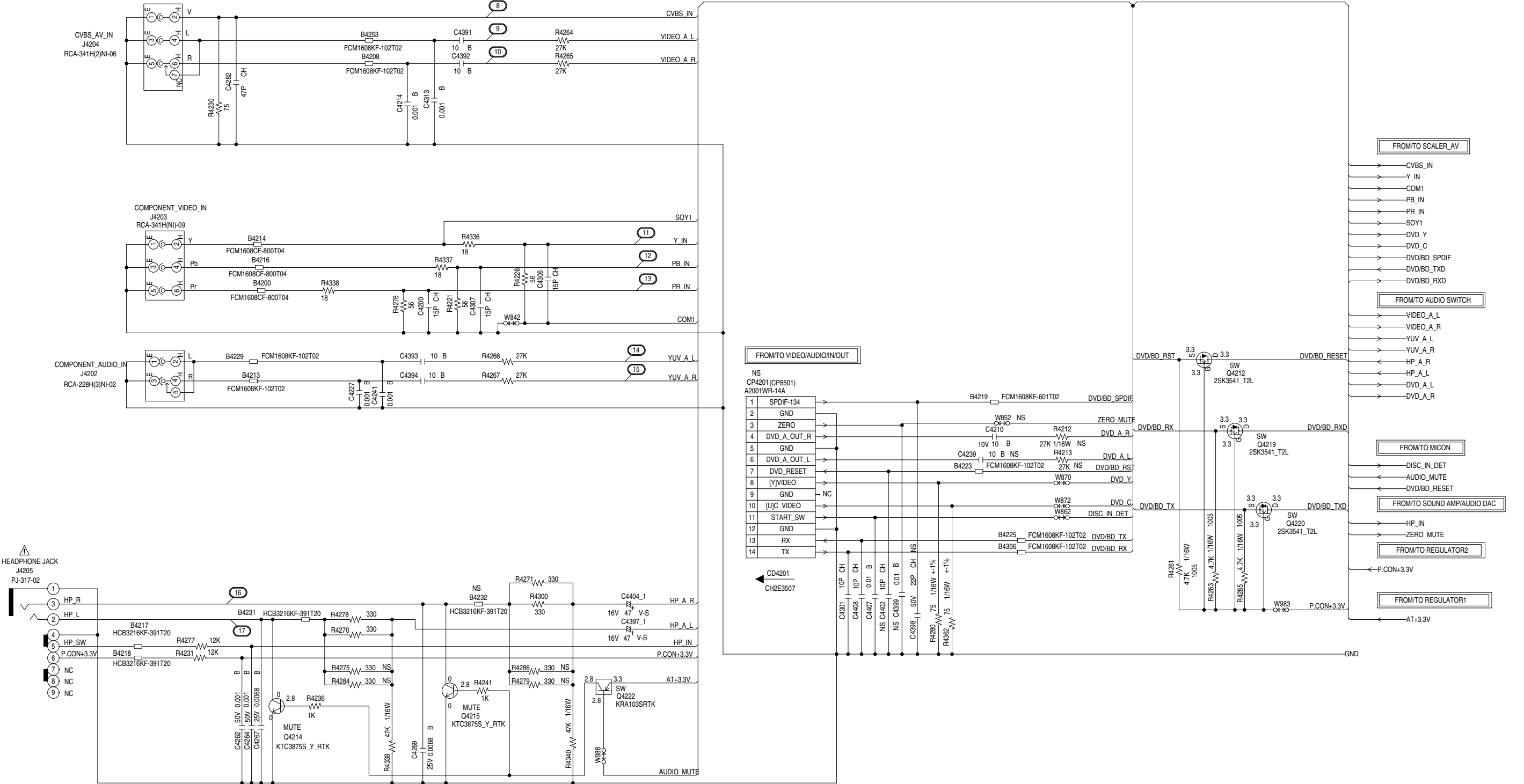
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

ATTENTION LES PIECES REPARÉES PAR UN ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

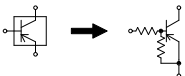
CAUTION SINCE THESE PARTS MARKED BY ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

PCBF40
CMJ159

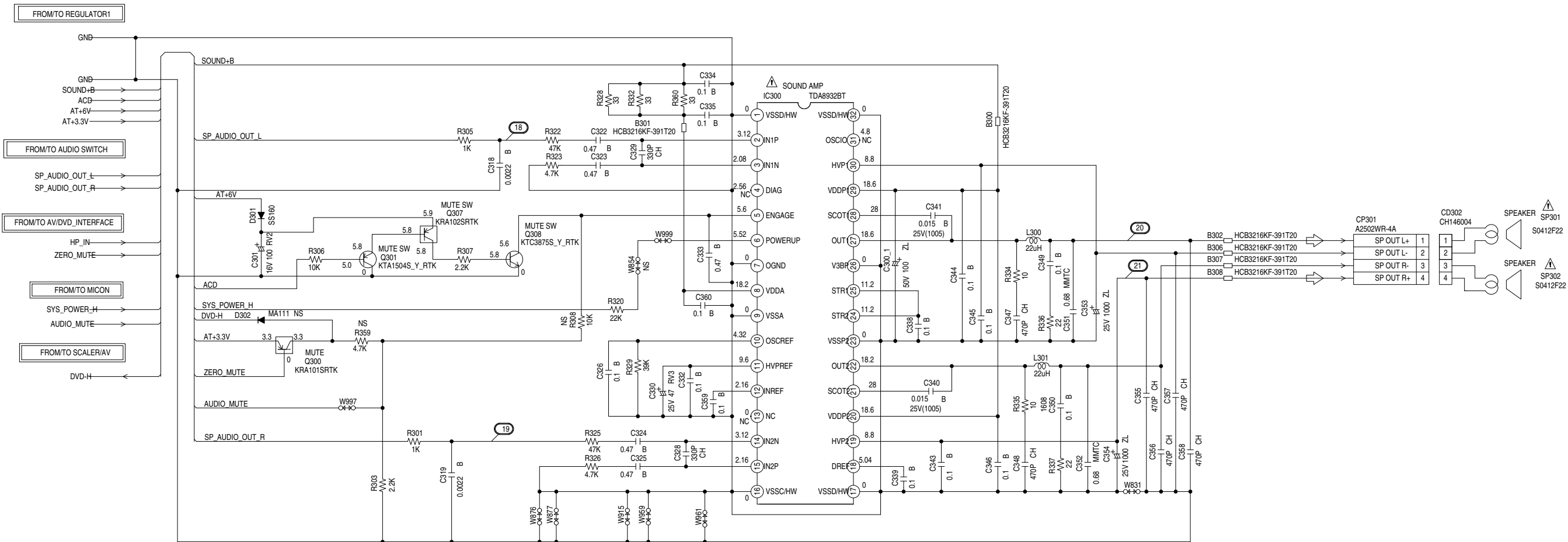
(MAIN PCB)



CAUTION: DIGITAL TRANSISTOR



SOUND AMP/AUDIO DAC SCHEMATIC DIAGRAM
(MAIN PCB)



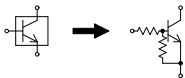
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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 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



CAUTION: DIGITAL TRANSISTOR



PCBF40
CMJ159

JACK SCHEMATIC DIAGRAM
(MAIN PCB)

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

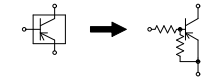
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

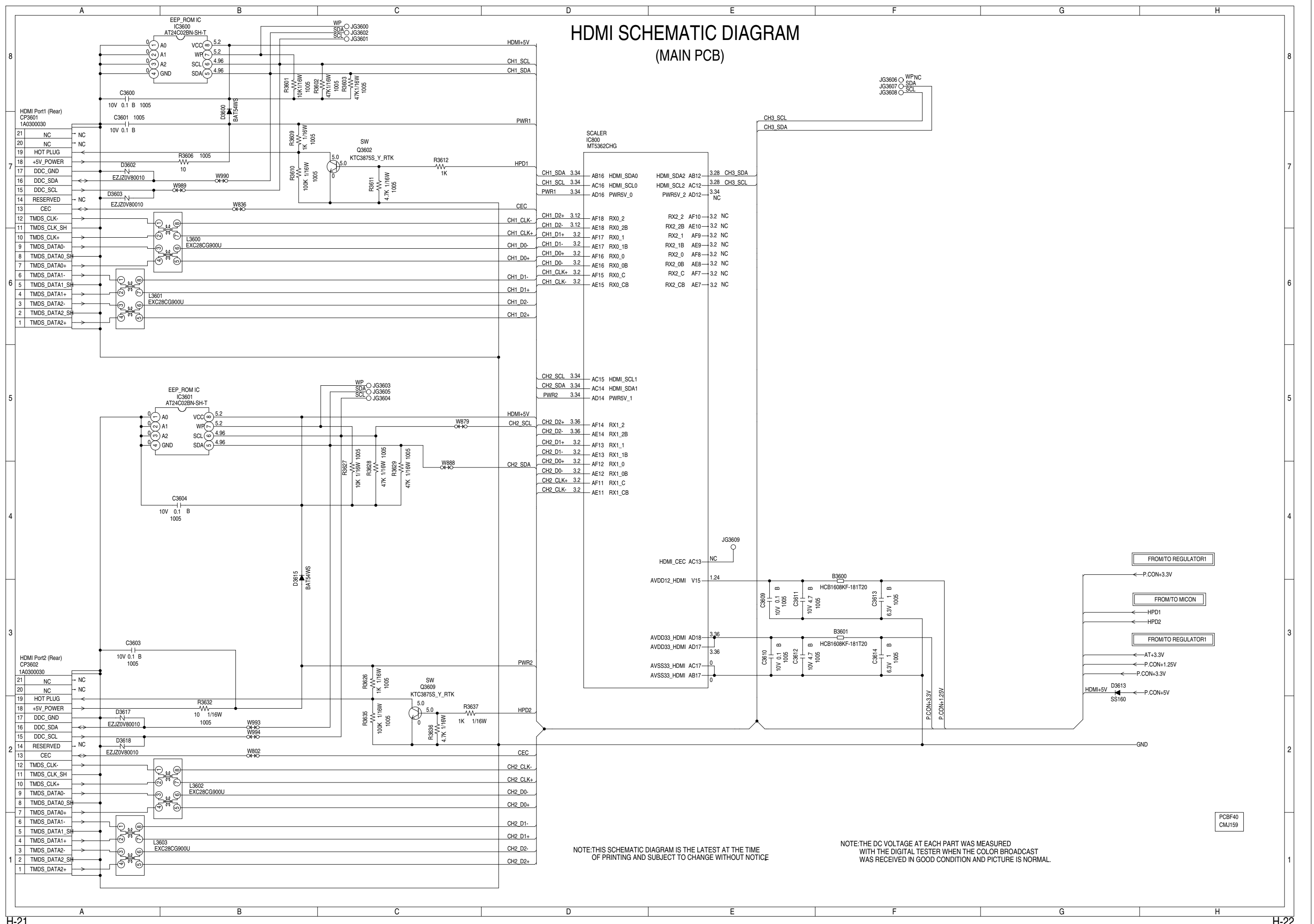
CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

PCBF40
CMJ159

CAUTION: DIGITAL TRANSISTOR

PCBF40
CMJ159



SCALER_AV SCHEMATIC DIAGRAM
(MAIN PCB)

FROM/TO REGULATOR

AT+3.3V

FROM/TO 21PIN

SCART2_V_IN

SCART1_V_IN

SCART1_FB

SCART1_R/C1_IN

SCART1_G_IN

SCART1_B_IN

SC2_CVBS_OUT

SC1_CVBS_OUT

SCART2_R/C2_IN

COM0

AOLRCK

AOSDATA0

AOBCK

AOMCLK

FROM/TO SOUND AMP/AUDIO DAC

DVD-H

FROM/TO AV/DVD_INTERFACE

CVBS_IN

PR_IN

Y_IN

PB_IN

DVD_Y

DVD_G

DVD/BD_SPDIF

COMH

SOY1

DVD/BD_RXD

DVD/BD_TXD

FROM/TO JACK

VGA-R

VGA-G

VGA-B

VGA-HS

VGA-VS

SPDIF_OUT

COM

FROM/TO AUDIO SWITCH

ADCOUTR

ADCOUTL

AR00

AL00

AR10

AL10

AR20

AL20

FROM/TO TUNER

CVBS0N

CVBS0P

FROM/TO REGULATOR2

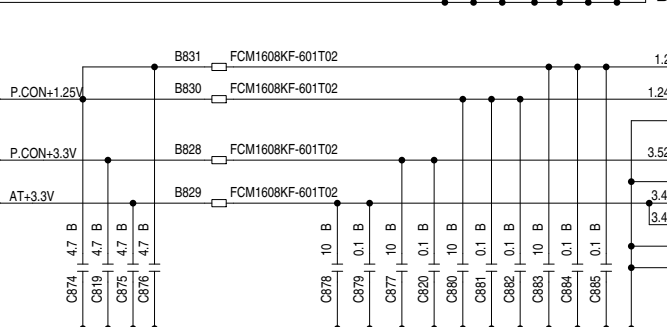
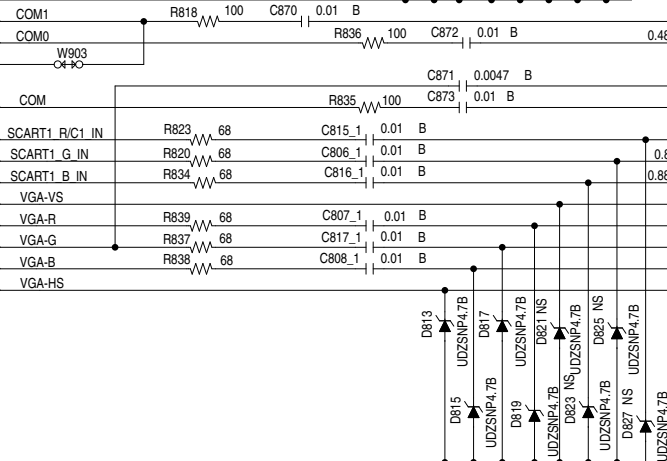
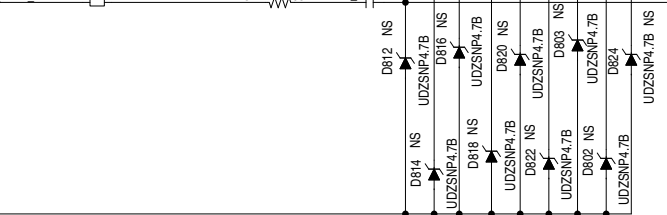
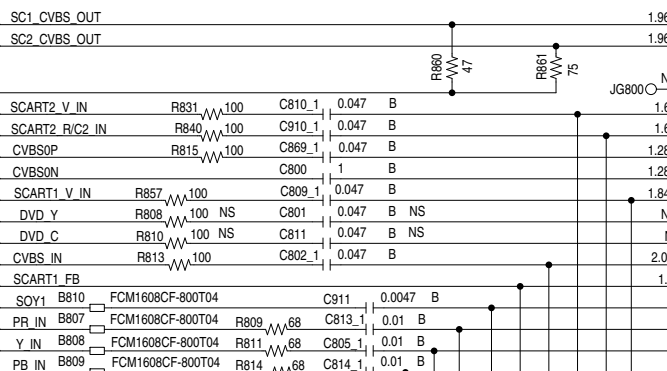
P.CON+1.25V

P.CON+3.3V

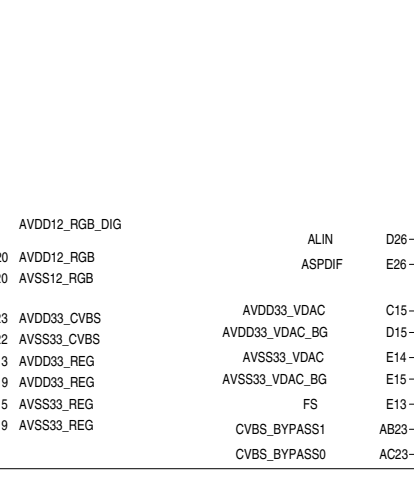
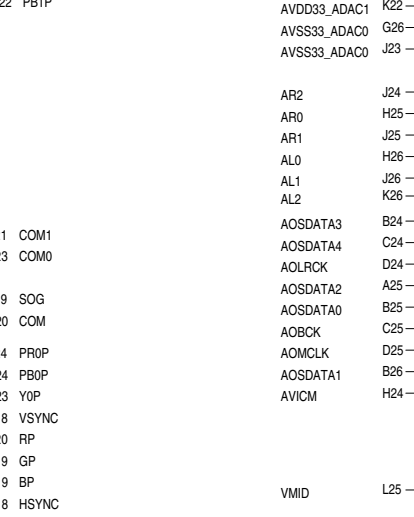
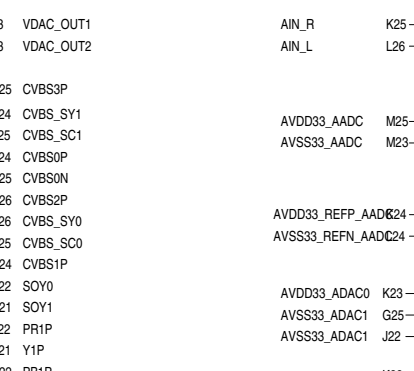
P.CON+3.3V

GND

HS800
763WAA0386

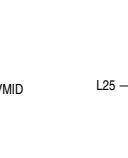
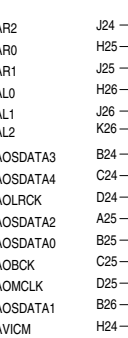
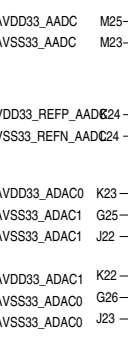


SCALER
IC800
MT5362CHG



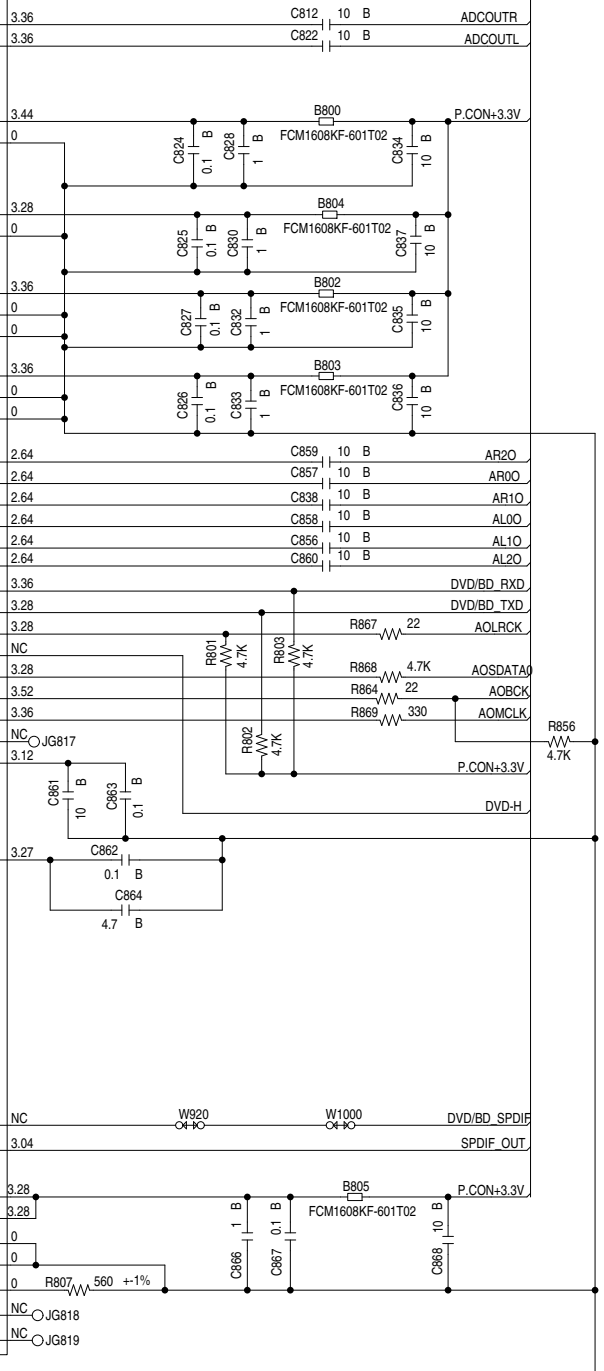
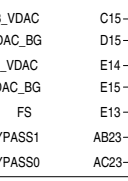
AIN_R K25 3.36

AIN_L L26 3.36



ALIN D26 NC

ASPDIF E26 3.04

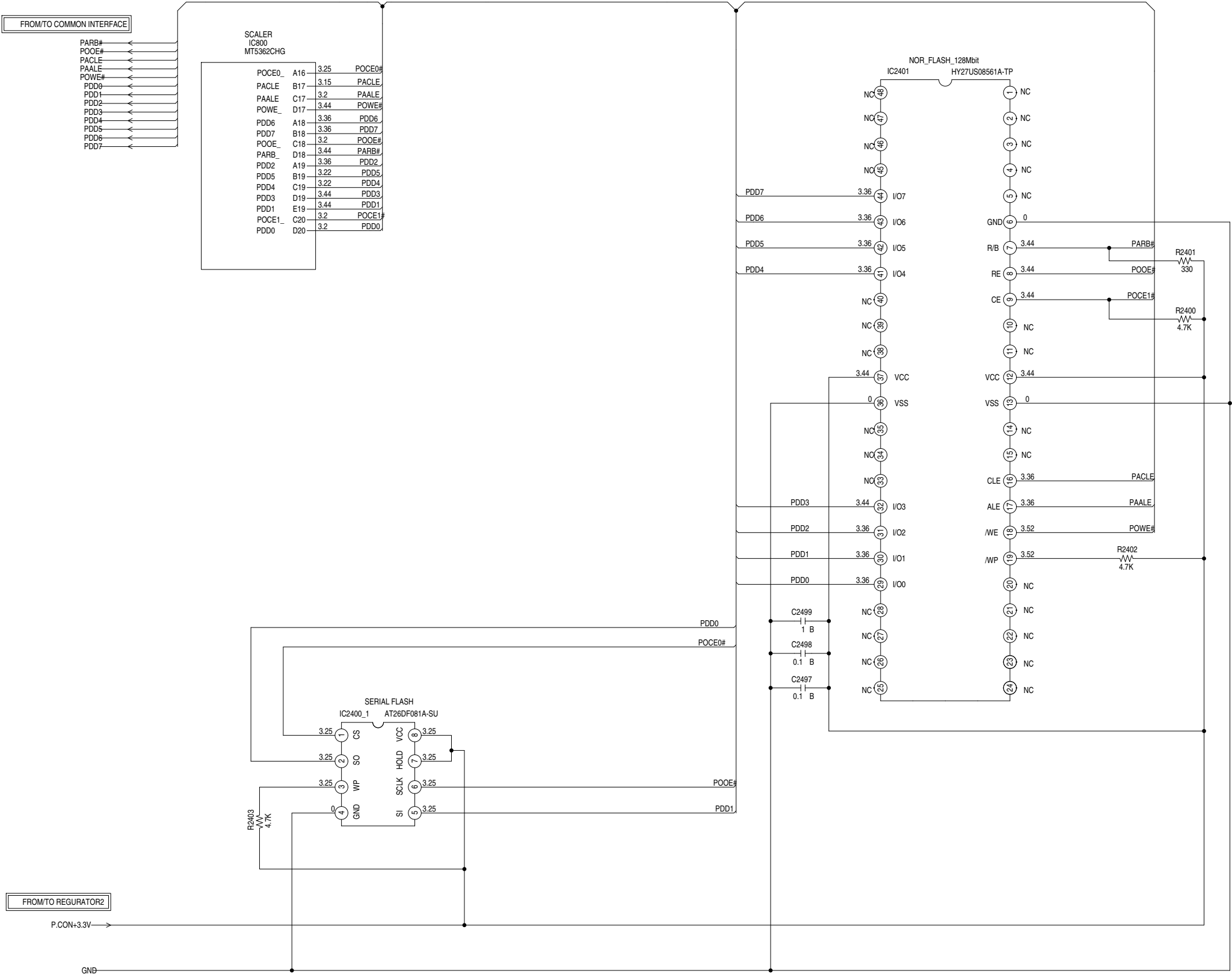


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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.

PCBF40
CMJ159

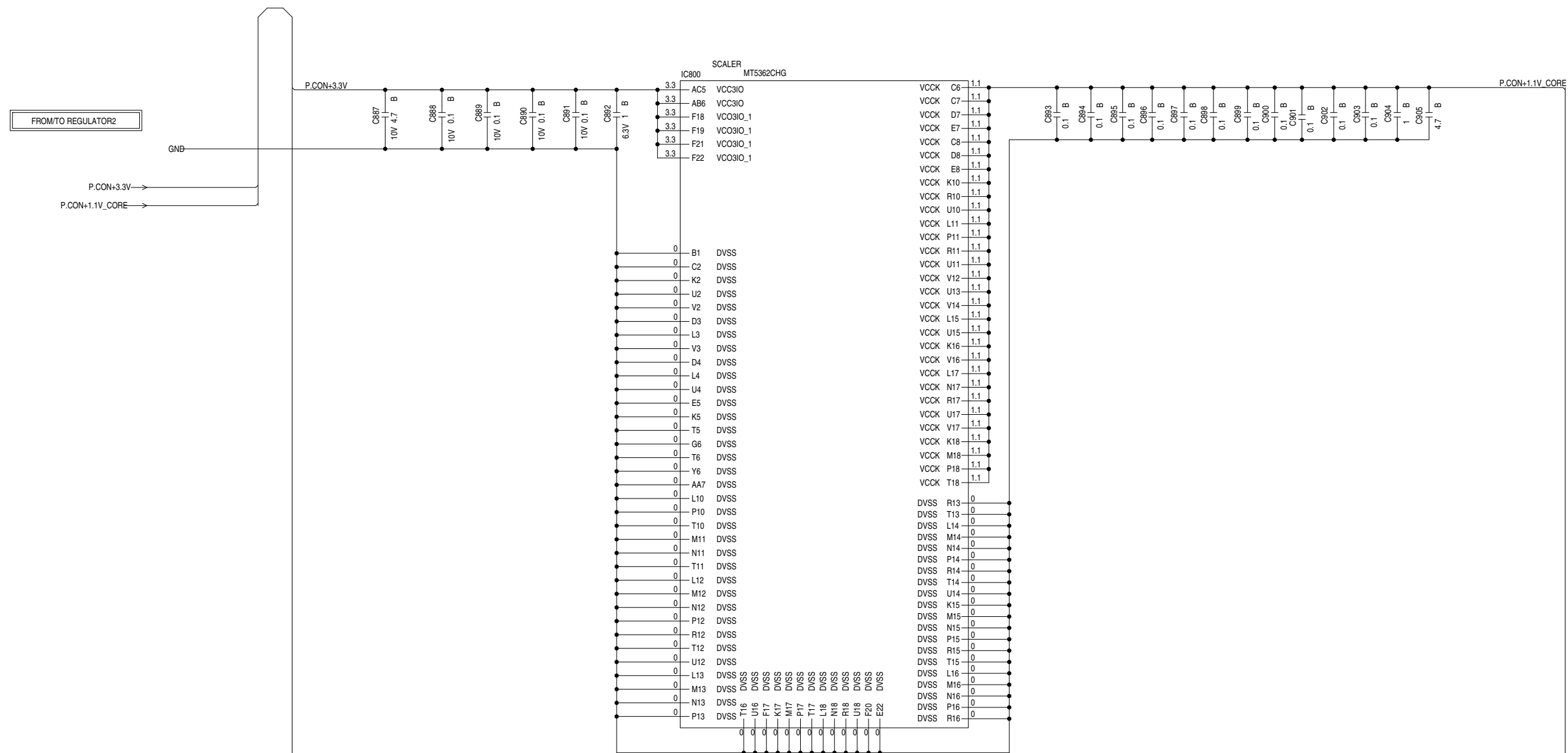
FLASH SCHEMATIC DIAGRAM
(MAIN PCB)



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.

SCALER_VCC SCHEMATIC DIAGRAM (MAIN 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.

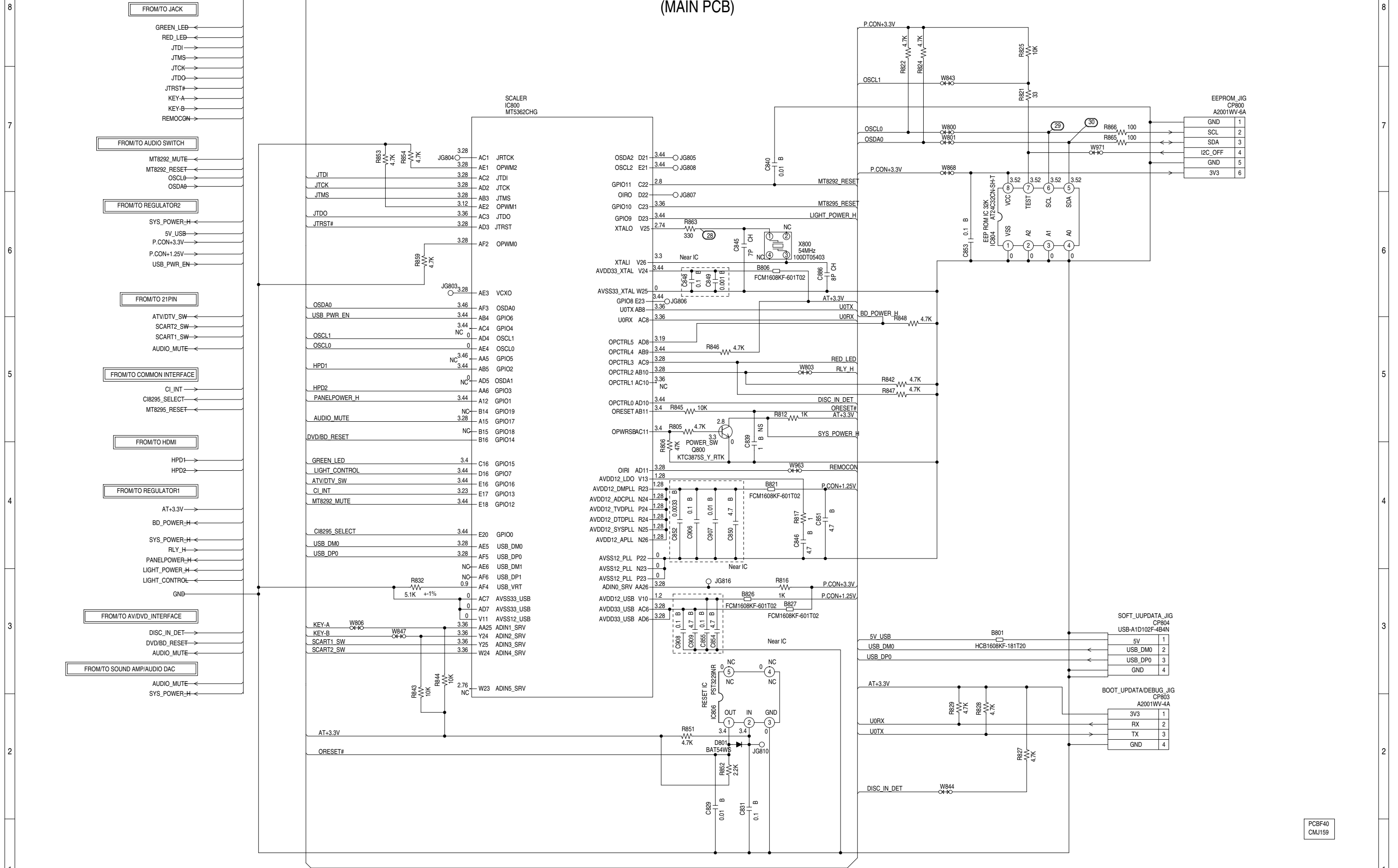
PCBF40
CMJ159

[illegible]

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

MICON SCHEMATIC DIAGRAM

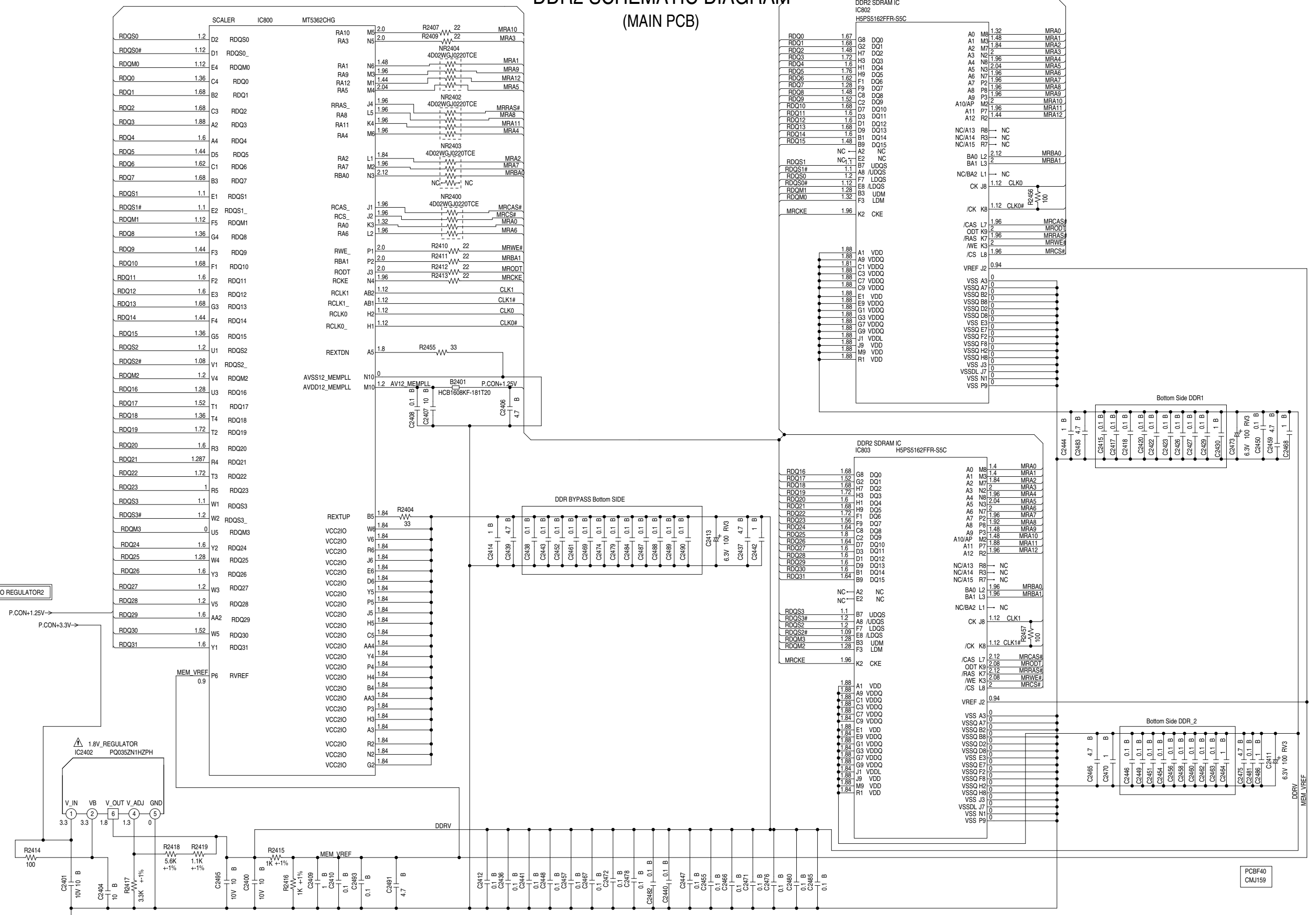
(MAIN PCB)



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.

DDR2 SCHEMATIC DIAGRAM
(MAIN PCB)



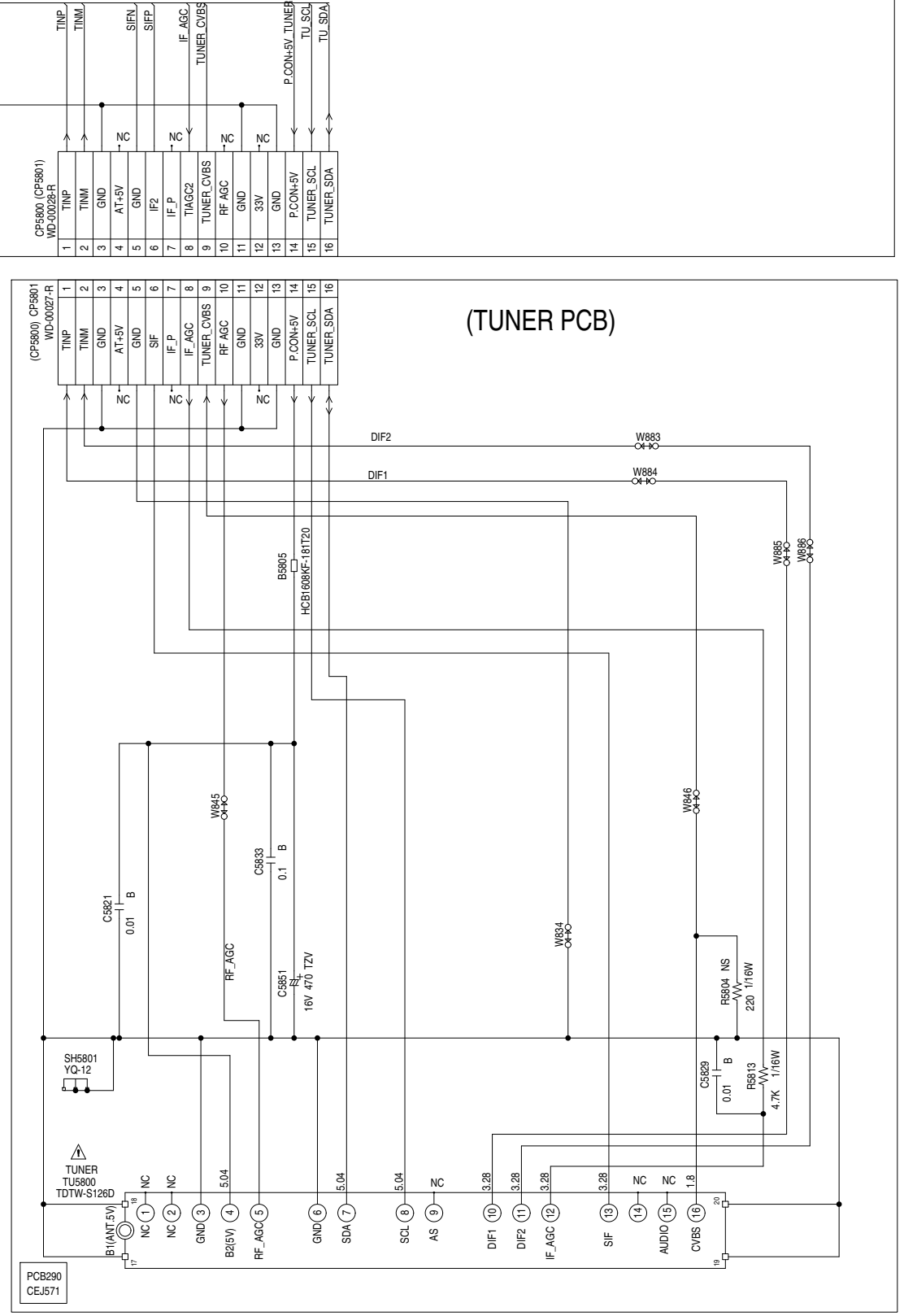
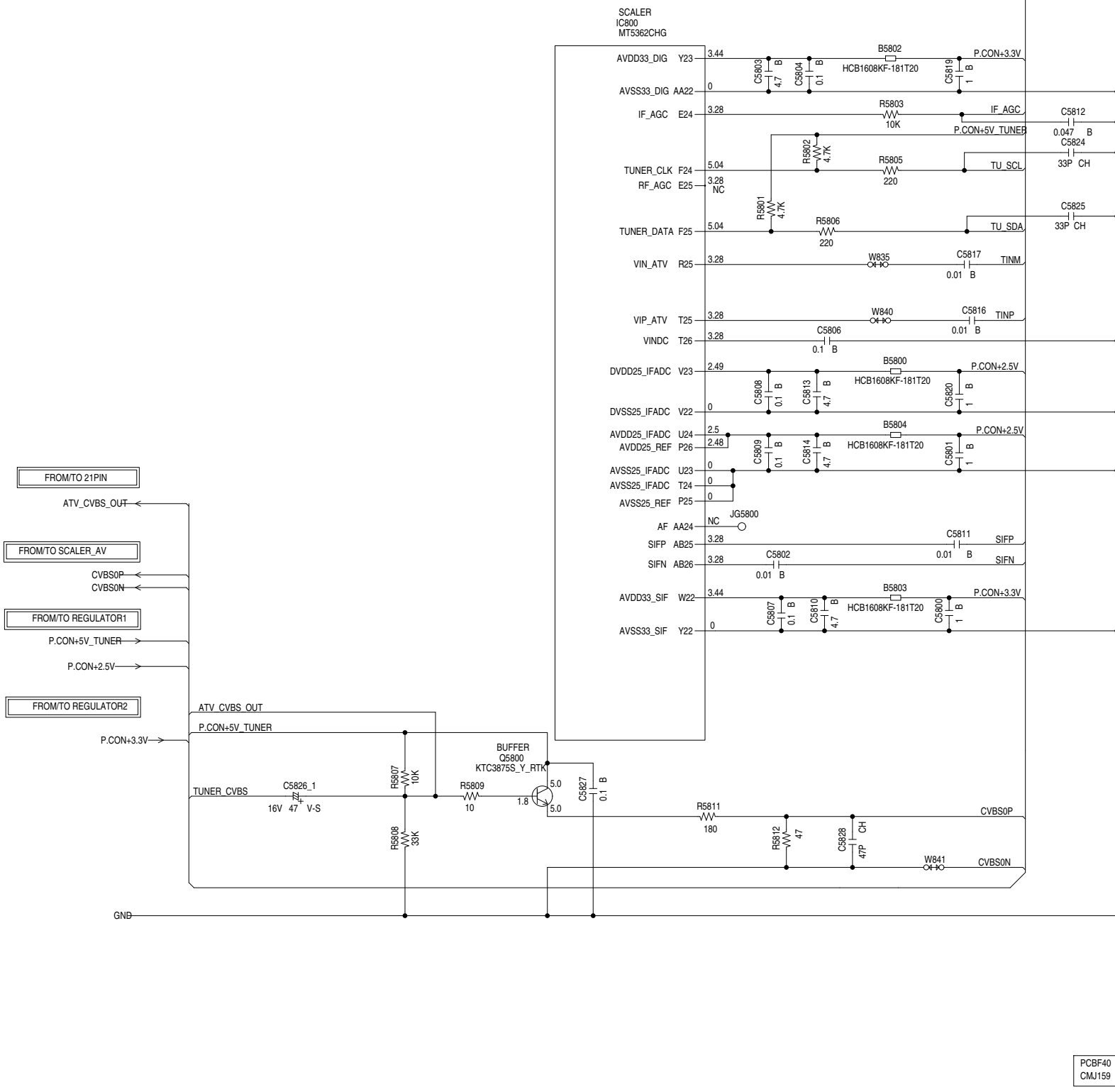
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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 ONLY THOSE DESCRIBED IN PARTS LIST ONLY.

TUNER SCHEMATIC DIAGRAM (MAIN PCB)



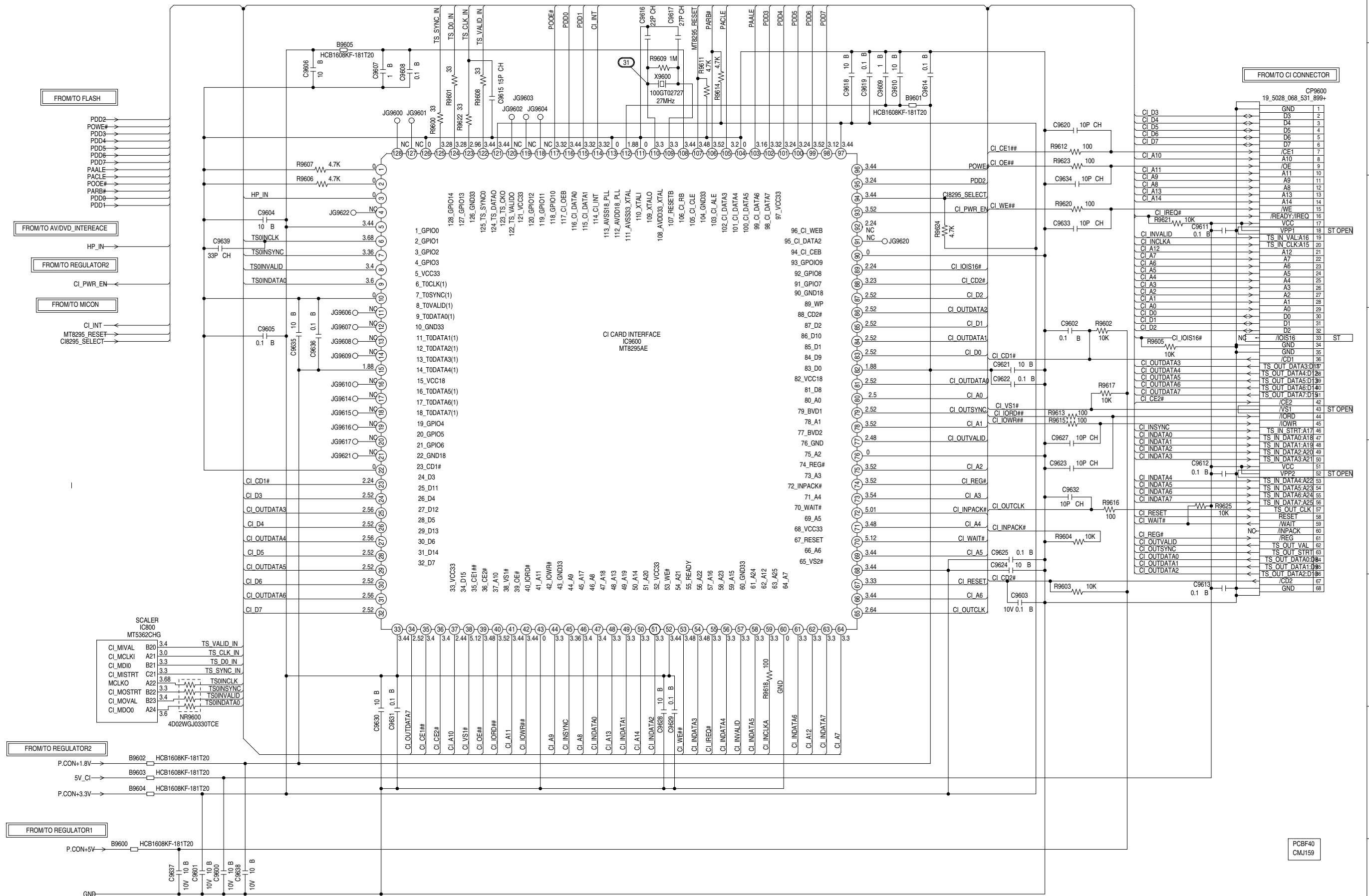
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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 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 .

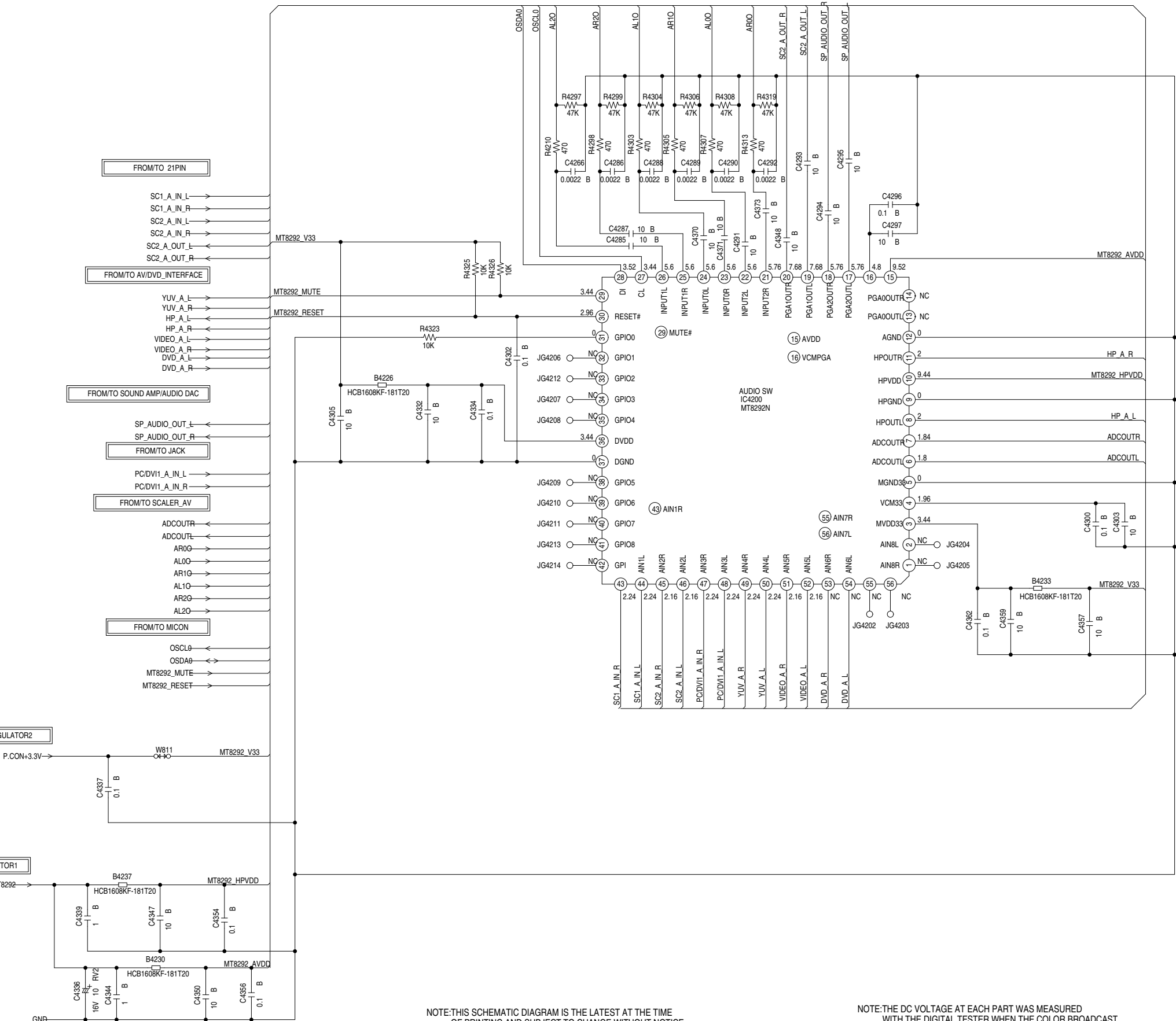
COMMON INTERFACE SCHEMATIC DIAGRAM (MAIN PCB)



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.

(MAIN PCB)

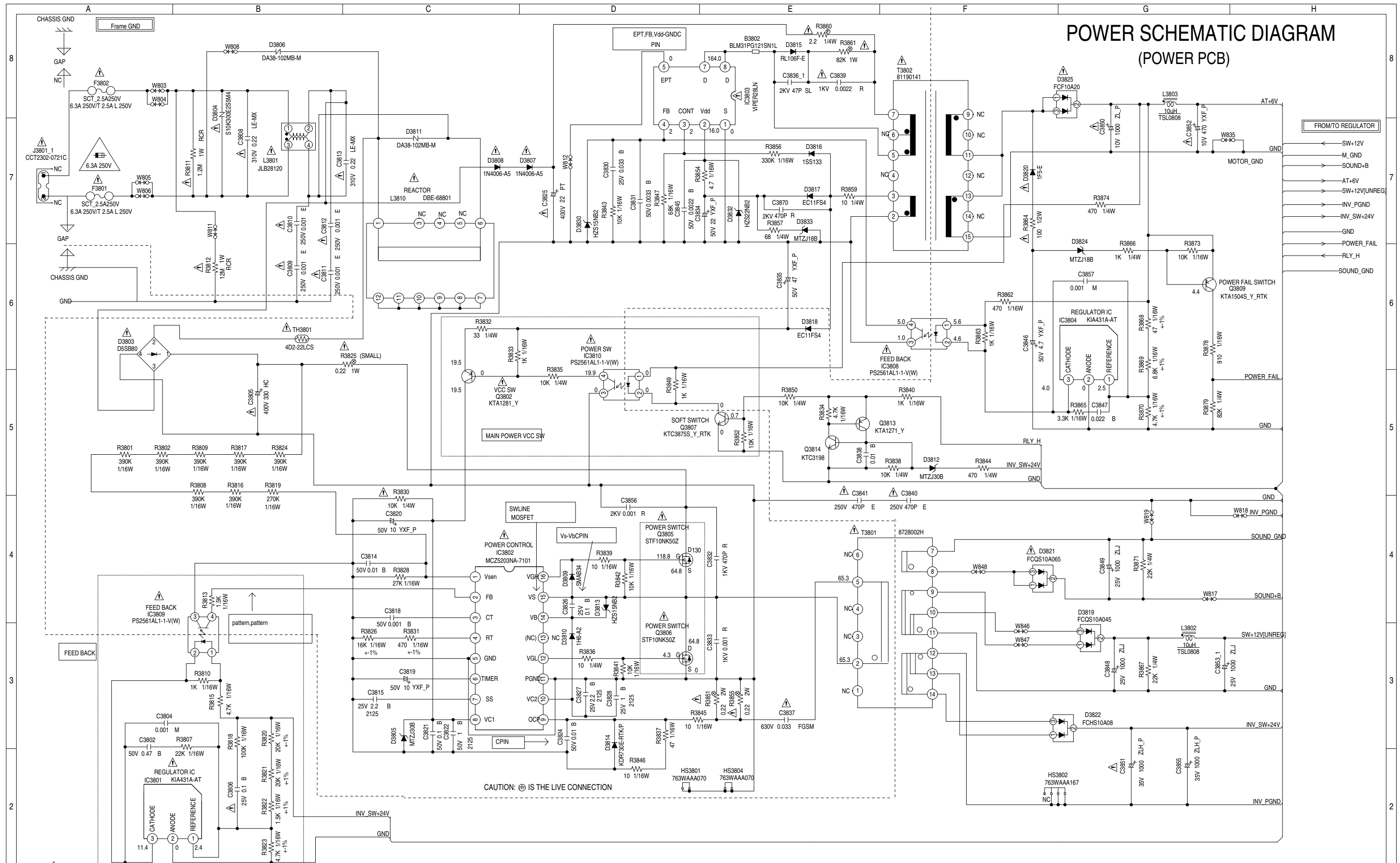


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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.

PCBF40
CMJ159

POWER SCHEMATIC DIAGRAM (POWER PCB)



PCB240
CEJ549

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE
6.3A 250V(F3801)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE
N'UTILISER QUE DES FUSIBLE DE MEME TYPE
6.3A 125V(F3801)

CAUTION: F3807 ARE MANUFACTURED BY SKYGATE CO.,LTD., TYPE 20N.
F3804,F3805,F3806 ARE MANUFACTURED BY
COOPER ELECTRONIC TECHNOLOGIES CO.,LTD TYPE 1206F-A.T.

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

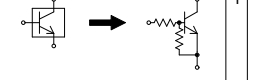
NOTE:THE RESISTOR MARKED F IS FUSE RESISTOR.
THE ALUMI ELECTROLYTIC CAPACITOR MARKED NP
IS NON POLAR ONE.

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.

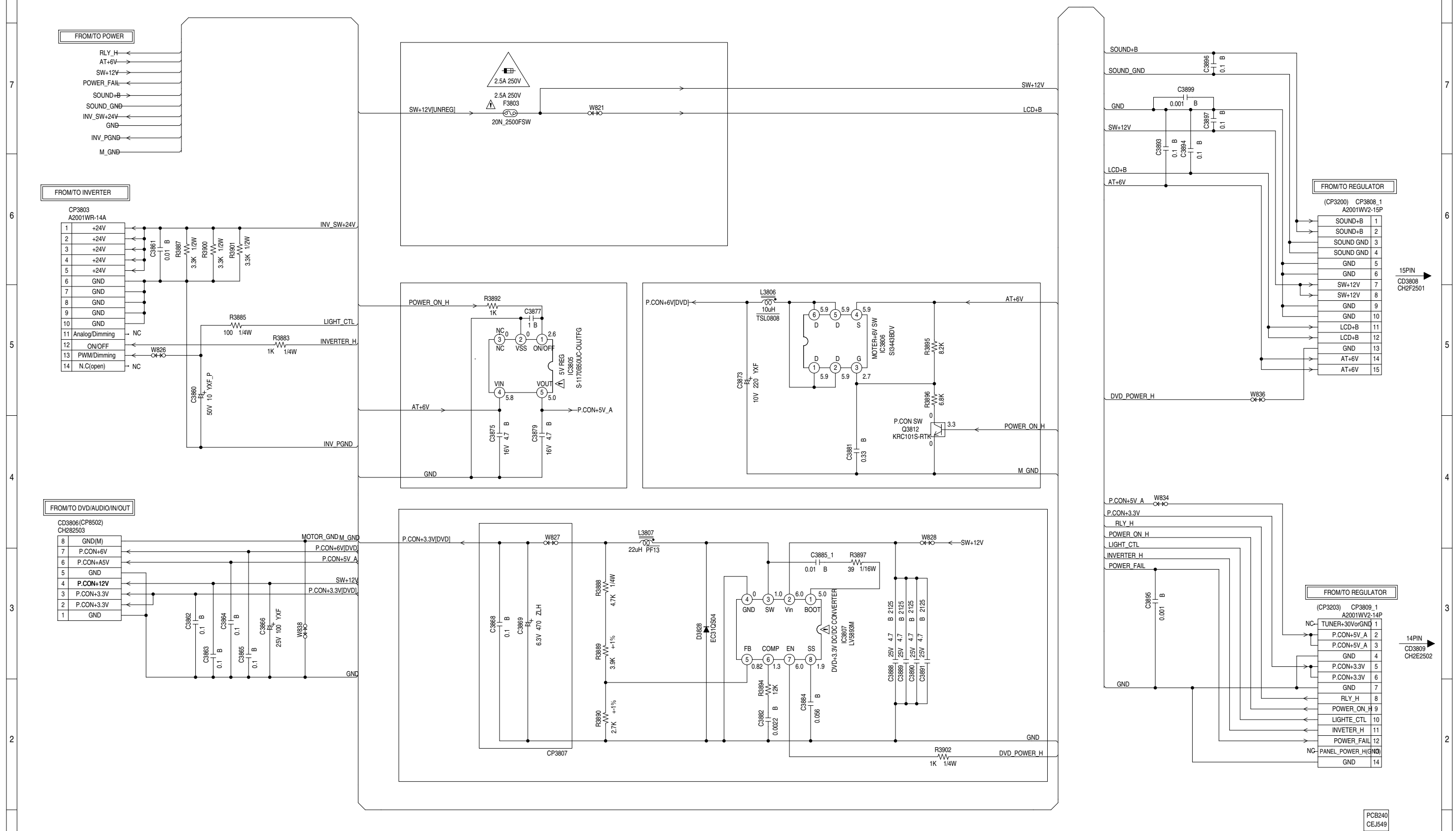
ATTENTION: LES PIECES REPARÉES PAR UN ETANT
DANGEREUSES AN POINT DE VUE SECURITE
N'UTILISER QUE CELLS DECRITES
DANS LA NOMENCLATURE DES PIECES

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

CAUTION: DIGITAL TRANSISTOR



REGULATOR2 SCHEMATIC DIAGRAM (POWER PCB)



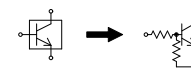
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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

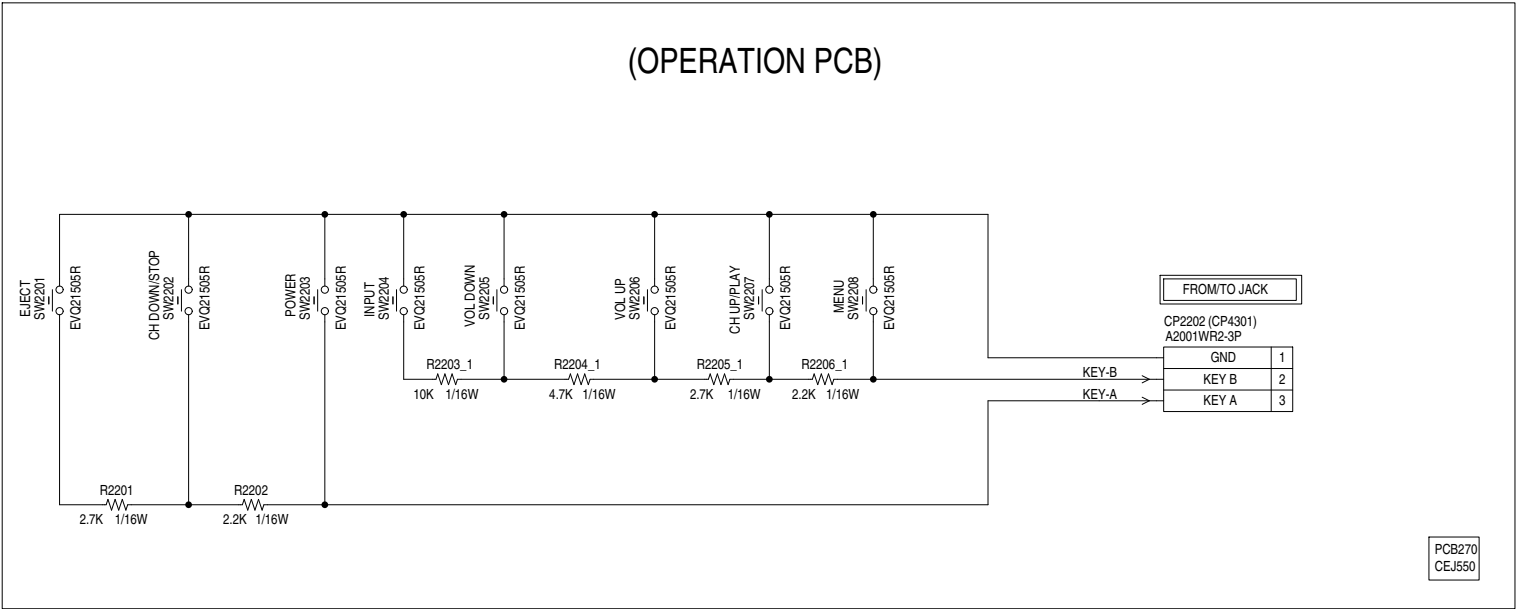
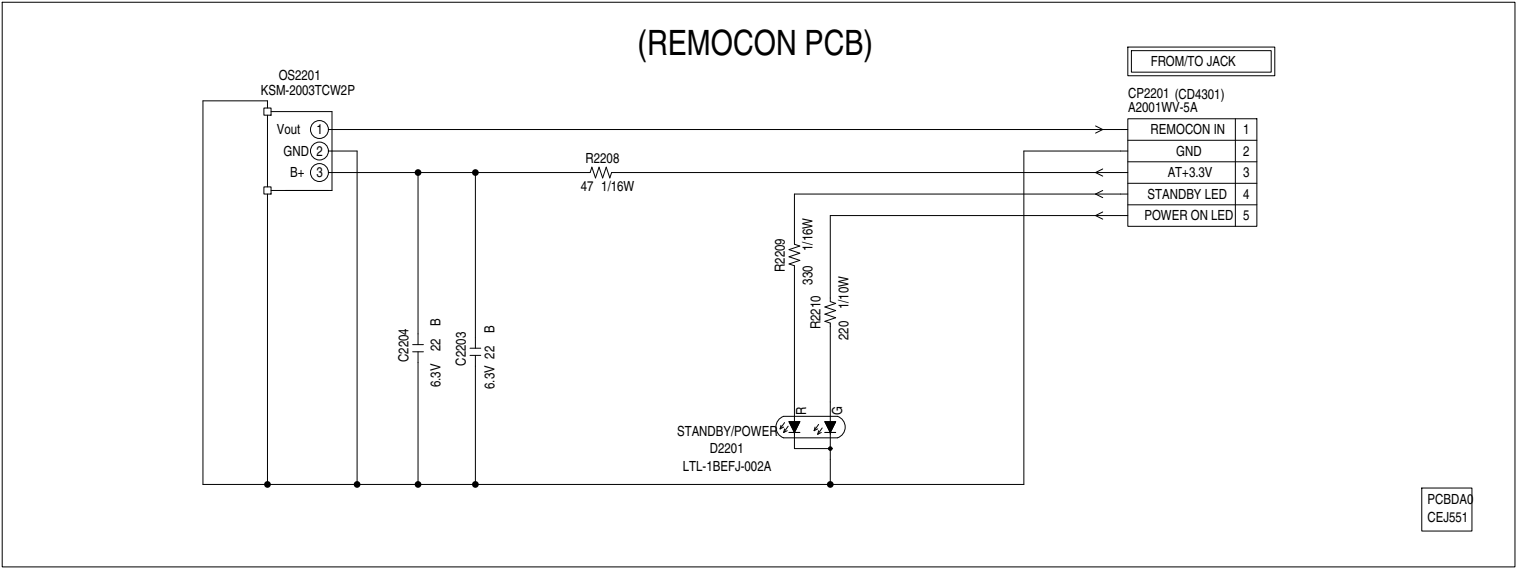
ATTENTION LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

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

CAUTION: DIGITAL TRANSISTOR



OPERATION/REMOCON SCHEMATIC DIAGRAM
(POWER PCB)



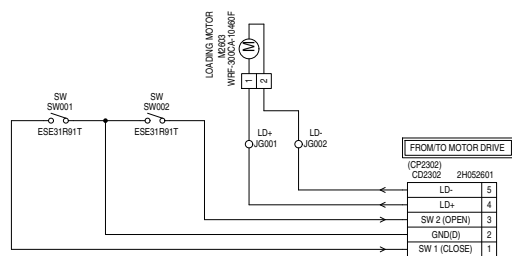
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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.

PCB240
CEJ549

LOADING MOTOR SCHEMATIC DIAGRAM

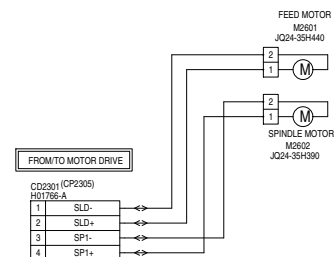
(LOADING MOTOR PCB)



PCB610
FEH002

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

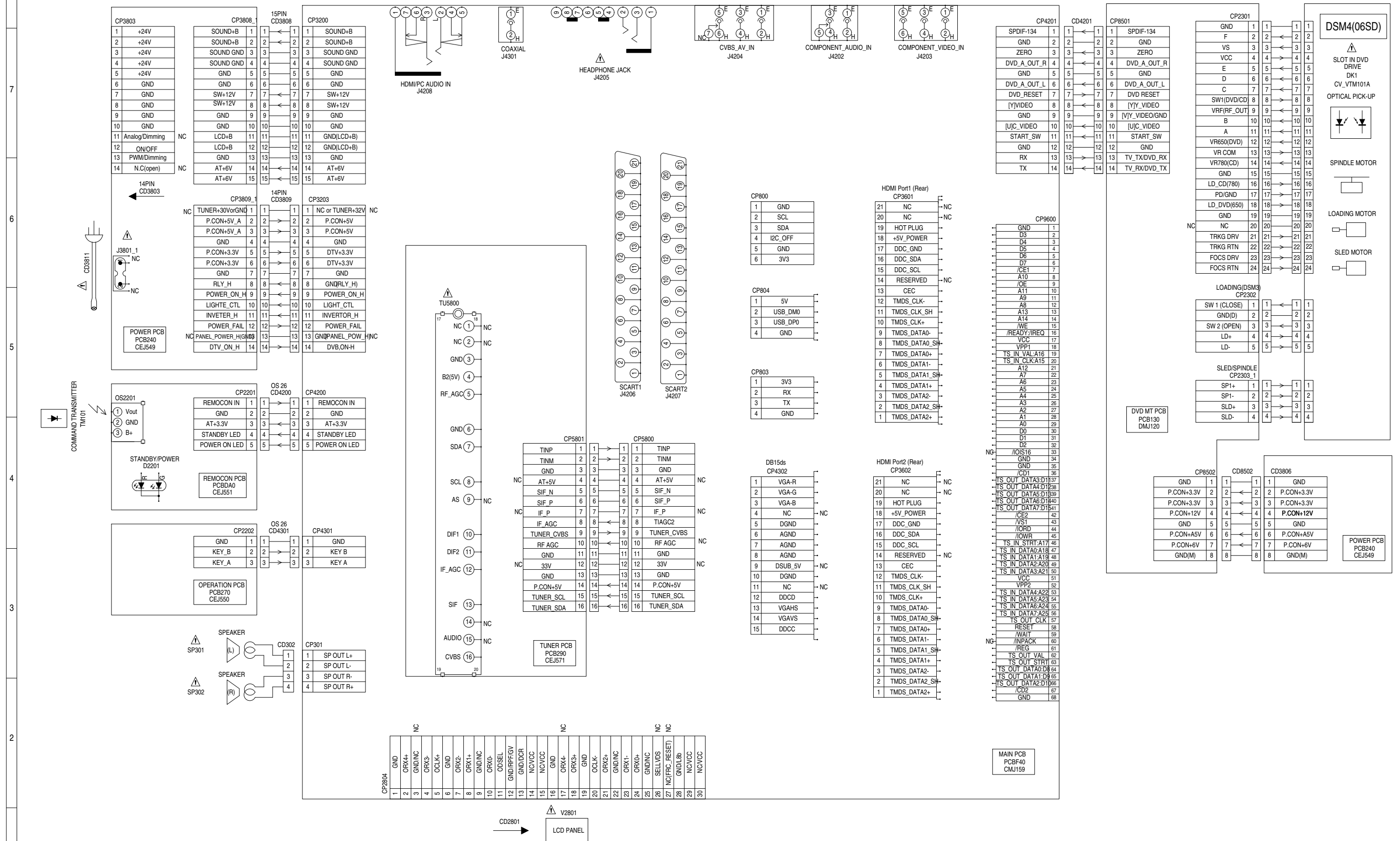
(PCB)



PCB630
FEJ006

NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

INTERCONNECTION DIAGRAM



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

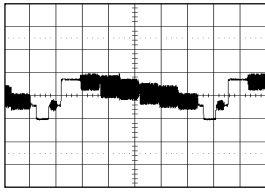
ATTENTION LES PIÈCES RÉPARÉES PAR UN  ÉTANT DANGEREUSES AU POINT DE VUE SÉCURITÉ N'UTILISER QUE CELLES DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

WAVEFORMS

21PIN

10us
0.5V

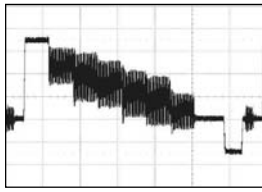
1



21PIN

10us
0.2V

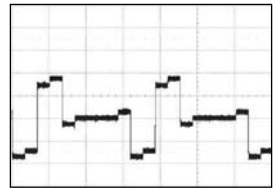
7



AV/DVD_INTERFACE

20us
0.2V

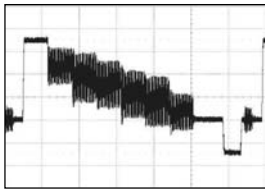
13



AV/DVD_INTERFACE

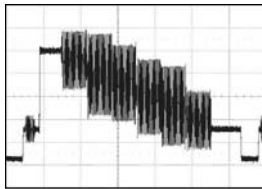
10us
0.2V

2



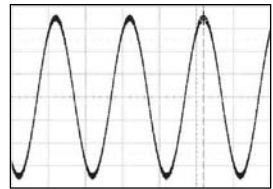
10us
0.2V

8



500us
0.2V

14



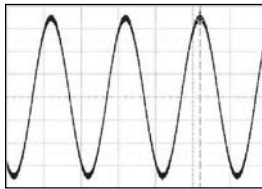
10us
0.2V

3



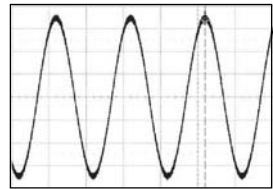
500us
0.2V

9



500us
0.2V

15



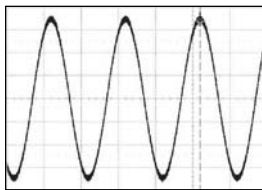
10us
0.2V

4



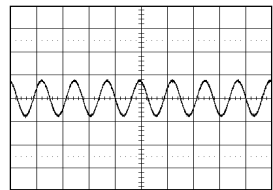
500us
0.2V

10



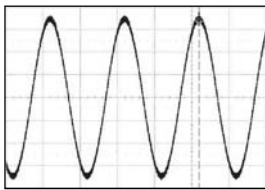
2ms
100mV

16



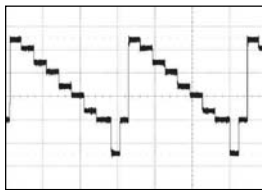
500us
0.2V

5



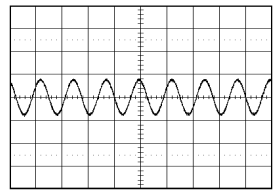
20us
0.2V

11



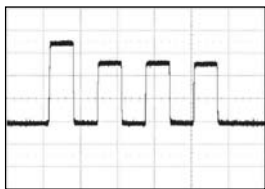
2ms
100mV

17



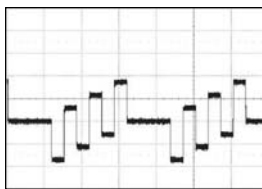
500us
0.2V

6



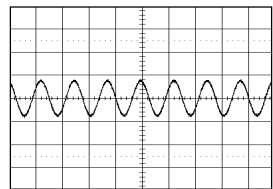
20us
0.2V

12



2ms
100mV

18



SOUND AMP/AUDIO DAC

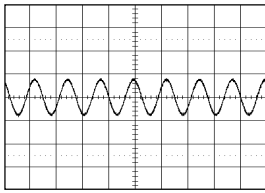
NOTE: The following waveforms were measured at the poi of the corresponding balloon number in the schematic diagram.

WAVEFORMS

SOUND AMP/AUDIO DAC

2ms
100mV

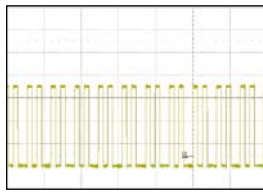
19



JACK

50us
0.2V

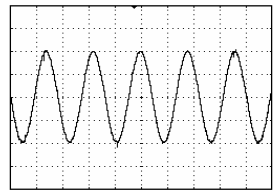
25



COMMON INTERFACE

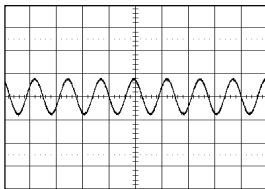
1ms
0.5V

31



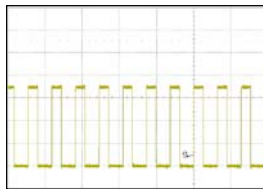
2ms
500mV

20



10us
0.2V

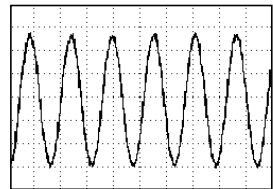
26



MPEG/MICOM/DSP

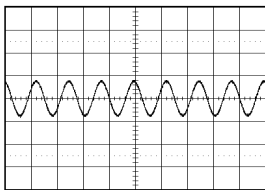
5ns
200mV

50



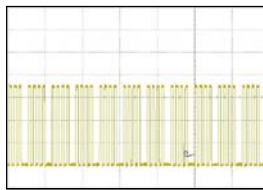
2ms
500mV

21



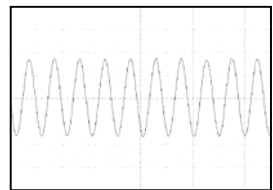
10us
0.2V

27



20ns
200mV

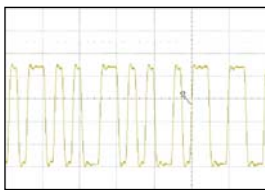
51



JACK

1us
0.2V

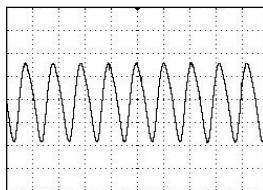
22



MICON

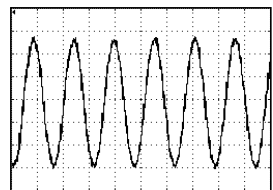
500us
0.5V

28



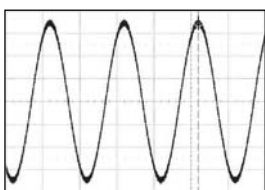
5ns
200mV

54



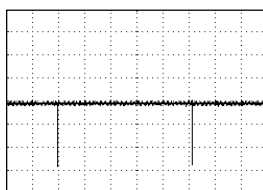
10us
0.2V

23



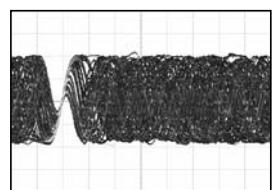
200ms
1V

29



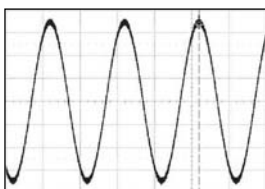
200ns
200mV

55



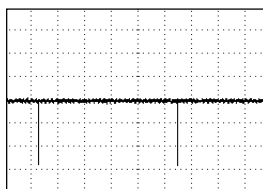
10us
0.2V

24



200ms
1V

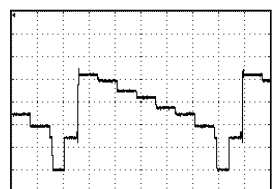
30



VIDEO/AUDIO IN/OUT

10us
200mV

56



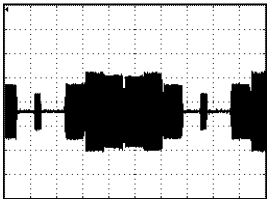
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

VIDEO/AUDIO IN/OUT

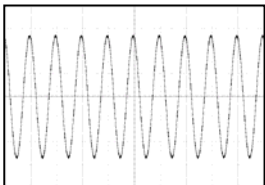
10us
200mV

57



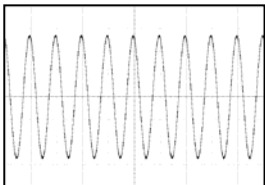
1ms
1V

58



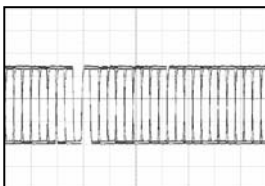
1ms
1V

59



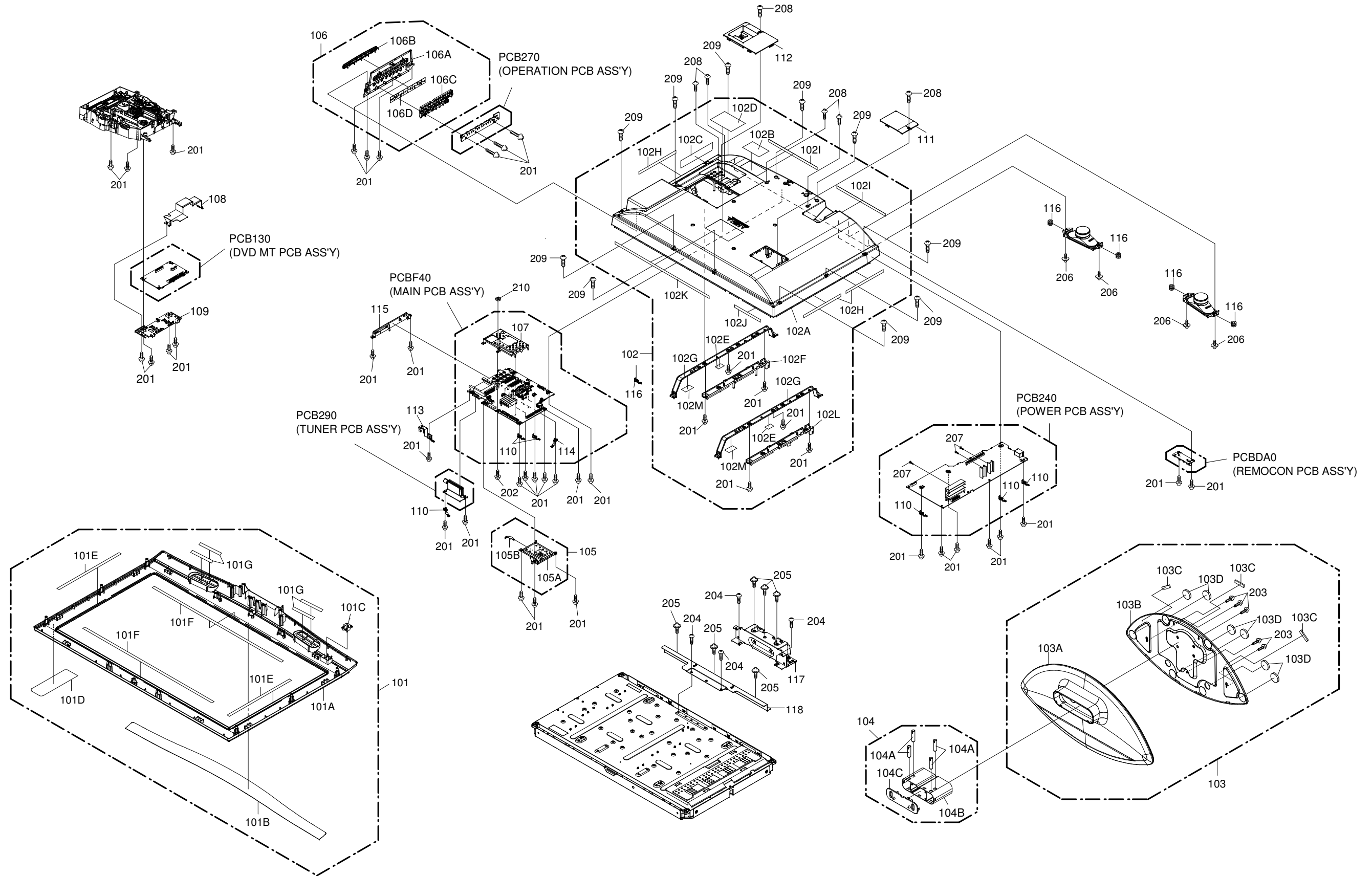
500ms
1V

60

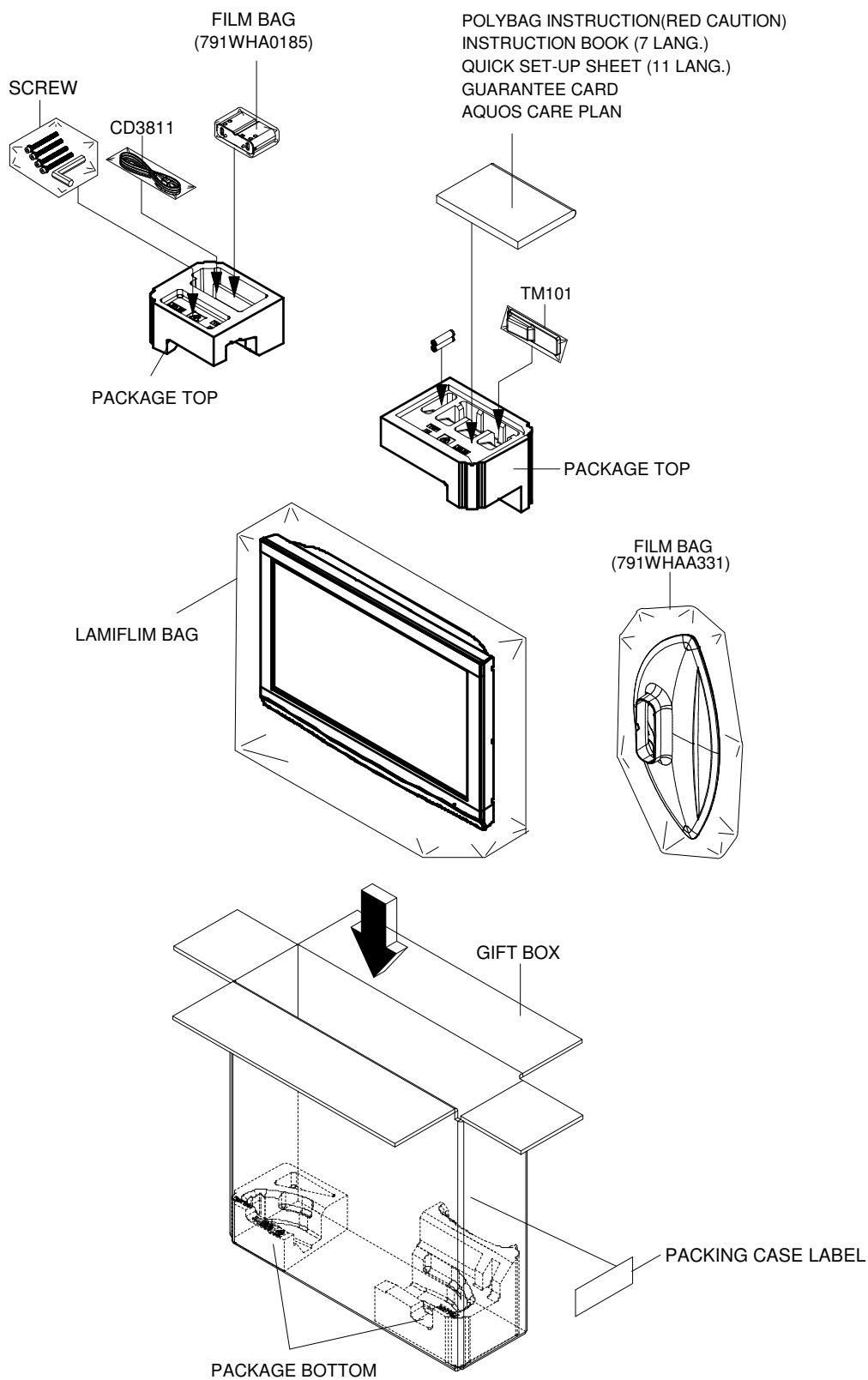


NOTE: The following waveforms were measured at the pair of the corresponding balloon number in the schematic diagram.

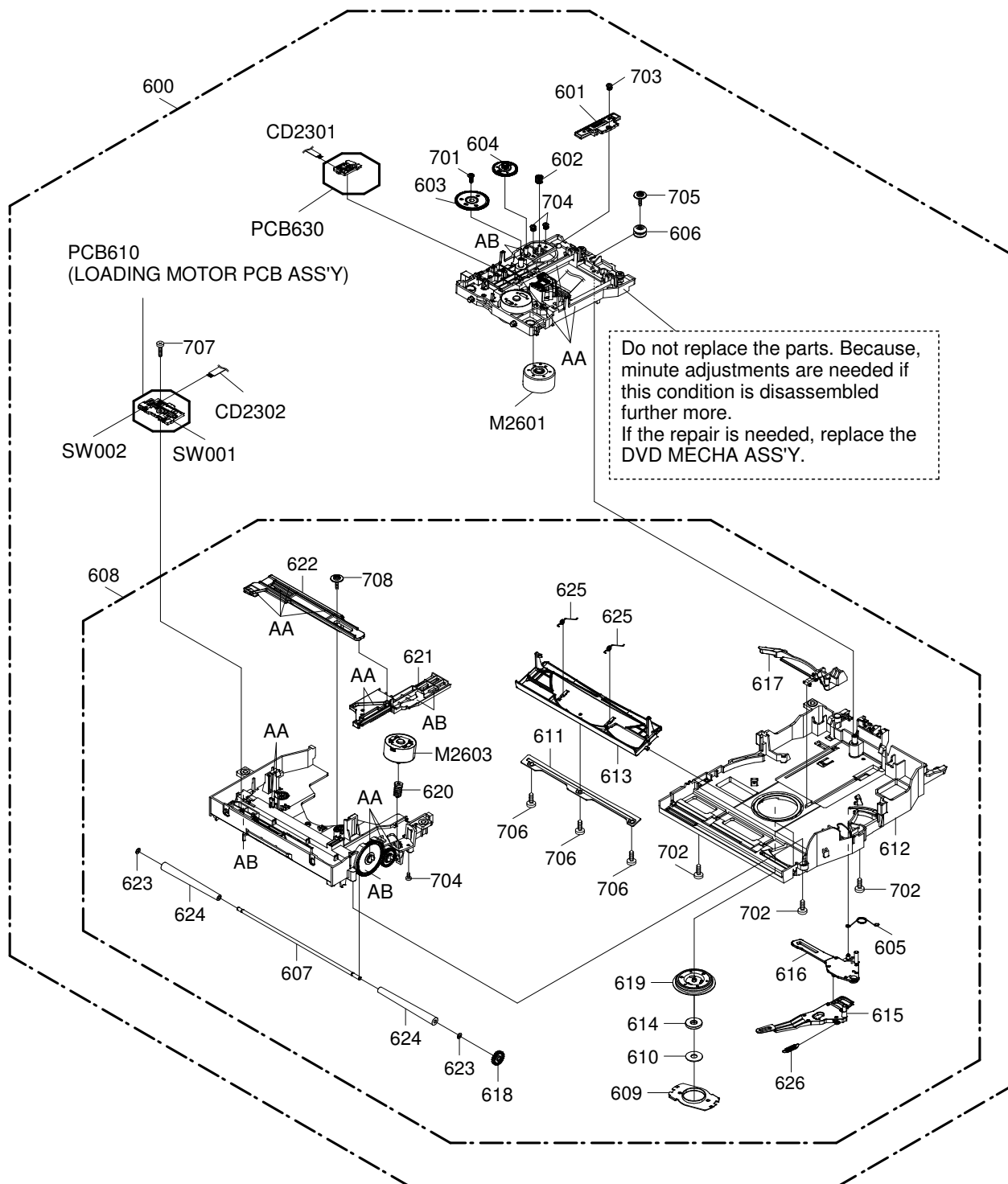
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



DVD DECK EXPLODED VIEW



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315141000	G-313Y	AA
	Y31D041000	CFD-5007Z	AB

NOTE: Applying positions AA and AB for the grease are displayed for this section. Check if the correct grease is applied for each position.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
101	9JD7A708A395A	FRONT CABI ASS'Y	
101A	9JD708WPDA288	CABINET FRONT	
101B	9JD702WNAA028	SHEET SPEAKER	
101C	9JD713WPA0434	GLASS LED	
101D	9JD723000E509	POP LABEL DVD	
101E	9JD800WQ0A306	FELT SHEET	
101F	9JD800WQ0A308	FELT SHEET	
101G	9JD800WF00098	CUSHION 5*100*T1	
102	9JD7A702B098A	BACK CABI ASS'Y	
102A	9JD702WPAB599	CABINET BACK	
102B	9JD723000E445	SHEET JACK	
102C	9JD723000E447	SHEET JACK SIDE	
102D	9JD723527A187	SHEET RATING	
102E	9JD7290000207	DOUBLE FACE TAPE	
102F	9JD761WPAA254	COVER PLATE	
102G	9JD761WSAA170	ANGLE MAIN	
102H	9JD800WQ0A228	FELT SHEET	
102I	9JD800WQ0A243	FELT SHEET	
102J	9JD800WQ0A252	FELT SHEET	
102K	9JD800WQ0A309	FELT SHEET	
102L	9JD761WPA0577	COVER PLATE	
102M	9JD800WQ0A253	FELT SHEET	
103	9JD7A704A254A	STAND ASS'Y	
103A	9JD704WPA0092	STAND	
103B	9JD761WSA0465	ANGLE STAND	
103C	9JD800WFAA035	CUSHION LEG	
103D	9JD800WFA0120	CUSHION LEG	
104	9JD7A764A009A	FRAME STAND ASS'Y	
104A	9JD761WEA0035	FRAME STAND	
104B	9JD704WPA0081	HOLDER STAND	
104C	9JD761WPA0470	COVER FRAME STAND	
105	9JD7G752A013A	SHIELD MAIN BOTTOM ASS'Y	
105A	9JD711WPBA022	SLOT DVD	
105B	9JD711WPDA951	PANEL SIDE	
105C	9JD735WPBB687	BUTTON FRAME	
105D	9JD800WQ00175	FELT SHEET (DVD)	
106	9JD7A711A228A	PANEL SIDE ASS'Y	
106A	9JD752WSAA172	SHIELD MAIN BOTTOM	
106B	9JD753WUA0103	SPRING EARTH H/AMP	
107	9JD752WSAA175	SHIELD MAIN TOP	
108	9JD761WSA0812	SHIELD LVDS BOTTOM	
109	9JD761WSA0813	SHIELD LVDS	
110	9JD744WEA0005	SPRING EARTH	
111	9JD702WPAB476	COVER INVERTER	
112	9JD702WPAB600	COVER LVDS	
113	9JD744WUA0044	SPRING EARTH TUNER	
115	9JD771WPA0435	PLATE JACK	
116	9JD800WR00084	DAMPER SPEAKER	
117	9JD761WSAA209	ANGLE HINGE	
118	9JD761WSAA210	ANGLE LCD-BOTTOM	
119	9JD744WEA0003	SPRING EARTH	
201	9JD8109230A0U	SCREW TAP TITE(B) BIND	3x10
202	9JD810A13080U	SCREW WASHER(A)	M3x8
203	9JD811063080U	SCREW TAP TITE(P) BRAZIER	3x8
204	9JD810A14080U	SCREW WASHER(A)	M4x8
205	9JD8117540A0U	SCREW TAPPING(B0) TRUSS	4x10
206	9JD8171130A0U	SCREW TAP TITE(B) WASHER12	3x10
207	9JD8109I30A0U	SCREW TAP TITE(B) WH7	3x10
208	9JD8109230A0S	SCREW TAP TITE(B) BIND	3x10
209	9JD8110230B5S	SCREW TAP TITE(P) BIND	3x25
210	9JD830023000U	NUT M3	

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
---	9JD723527A188	PACKING CASE LABEL	
---	9JD791WHA0185	FILM BAG	
---	9JD791WHAA266	LAMIFILM BAG	
---	9JD791WHAA331	FILM BAG	
---	9JD792PHAA052	PACKAGE TOP	
---	9JD792PHAA053	PACKAGE BOTTOM	
---	9JD793PCDA252	GIFT BOX	
---	9JD89001122A2	SCREW	
---	9JDJ54B0101B	INSTRUCTION BOOK(7 LANG.)	
---	9JDJ54B0107A	QUICK SET-UP SHEET(11 LANG.)	
---	9JDJ54B0202A	GUARANTEE CARD	
---	9JDJ54B0219A	AQUOS CARE PLAN	
---	9JDJB5PD000	POLYBAG INSTRUCTION(RED CAUTION)	

DVD DECK REPLACEMENT PARTS LIST

REF. NO	PART NO.	DESCRIPTION	CODE
△ 600	9JDA54N01A650	DVD MECHA ASS'Y	A54N01A650
601	9JD92AAA0026A	FEED RACK ASS'Y	
602	9JD92P100203A	GEAR MOTOR	
603	9JD92P100201A	GEAR FEED	
604	9JD92P100202A	GEAR MIDDLE	
605	9JD92P300035A	SPRING LEVER GUIDE	
606	9JD92P200018A	INSULATOR, R	
607	9JD92P500016A	SHAFT ROLLER	
608	9JDA54N01A700	LOADER SUB ASS'Y	
609	9JD92P000036A	COVER CLAMPER	
610	9JD92P000037A	PLATE CLAMPER	
611	9JD92P000039A	PLATE RETAINER	
612	9JD92P100222A	FRAME MAIN	
613	9JD92P100159A	RETAINER SHUTTER	
614	9JD92P400011A	MAGNET CLAMPER	
615	9JD92P100161A	LEVER DISC	
616	9JD92P100162A	LEVER GUIDE	
617	9JD92P100218A	GUIDE DISC	
618	9JD92P100164A	GEAR ROLLER	
619	9JD92P100165A	CLAMPER	
620	9JD92P100172A	GEAR WORM	
621	9JD92P100175A	RACK LEVER	
622	9JD92P100176A	PLATE TRVS UD	
623	9JD92P100180A	LUMIRROR WASHER	
624	9JD92P200020A	ROLLER CONE	
625	9JD92P300033A	SPRING SHUTTER	
626	9JD92P300034A	SPRING LEVER DISC	
701	9JD92P700020A	SCREW TAP TITE(P) PAN	WH5.4 1.7x8
702	9JD92P700018A	SCREW TAP TITE(P) BIND	2.6x8
703	9JD813381750U	SCREW,T-TITE(B)CAMERA PAN	M1.7x5.0
704	9JD814011723U	SCREW,PAN	M1.7x2.3
705	9JD92P700021A	SCREW TAP TITE(P) PAN	WH8 2x8
706	9JD810922030U	SCREW TAP TITE(B) BIND	2x3
707	9JD810922060U	SCREW,TAP TITE(B) BIND	2x6
708	9JD92P700017A	SCREW TAP TITE(P)BIND	WH7 M2.6x8
CD2301	9JD12C1042202	CORD JUMPER	FFC100422505030800T8-004
CD2302	9JD12C1052702	CORD JUMPER	FFC100527005030800T8-004
M2601	9JD1515U98007	MOTOR	JQ24-35H440
M2603	9JD1596L98004	MOTOR,LOADING	WRF-300CA-10460F
	9JD1515U98009	MOTOR	JQ24-35H440B
PCB610	9JDA52C01T610	LOADING MOTOR PCB ASS'Y	FEH002B
PCB630	9JD13FEJ006AW	PCB	FEJ006A
SW001	9JD0500101042	PUSH SWITCH	ESE31R11T
SW002	9JD0500101042	PUSH SWITCH	ESE31R11T

or

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
REMOCON PCB ASS'Y			
*** PCB ***			
PCBDA0	9JDA55A02ADA0M	REMOCON PCB ASS'Y	CEJ551A
*** DIODES ***			
D2201	9JD0021E9Q010	LED	LTL-1BEFJ-002A
*** OTHERS ***			
CP2201	9JD06GG250029	CONNECTOR PCB SIDE	A2001WV-5A
OS2201	9JD077Q038009	REMOTE RECEIVER	KSM-2003TCW2P
MAIN PCB ASS'Y			
*** PCB ***			
PCBF40	9JDA55A02AF40M	MAIN PCB ASS'Y	CMJ159A
*** CAPACITORS ***			
C300	9JDE7EYT5101M	CE	100 UF
C351	9JDP23220684J	CMP	0.68
C352	9JDP23220684J	CMP	0.68 UF 50
C353	9JDE7EYF3102M	CE	1000 UF 25
C354	9JDE7EYF3102M	CE	1000 UF 25
*** DIODES ***			
D301	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D302	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D801	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D802	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D803	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D812	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D813	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D814	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D815	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D816	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D817	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D818	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D819	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D820	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D821	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D822	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D823	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D824	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D825	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D827	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D3000	9JDD2ARMAB340	DIODE SCHOTTKY	SMAB34
D3001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)
D3002	9JDDE7RB3R92B	DIODE ZENER	UDZSNP3.9B TE-17
D3011	9JDD28R1QS040	DIODE	EC31QS04-TE12L
D3600	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D3602	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3603	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3613	9JDDDLRS160T0	DIODE SCHOTTKY BARRIER	SS160-T
D3615	9JDDGJRT54WS0	DIODE SCHOTTKY BARRIER	BAT54WS
D3617	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D3618	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4205	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4214	9JDDE7RB4R72B	DIODE ZENER	UDZSNP4.7B TE-17
D4223	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4224	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4233	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4236	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010
D4237	9JDD61R0V8001	DIODE VARISTA	EZJZ0V80010

ELECTRICAL REPLACEMENT PARTS LIST

*** ICS ***

△IC300	9JDI0KJP8932B	SOUND AMP 15W D-AMP	TDA8932BT/N2,118
IC800	9JDIC8M0362A0	SCALER 470PIN BGA	MT5362AHG/B
IC802	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC803	9JDIGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
IC804	9JDICRJ032CN0	EEPROM SOIC M32P	AT24C32CN-SH-T
IC806	9JDI9UF032290	RESET IC 2.9V TYPE	PST3229NR
IC2400	9JDICRJ0F0810	NOR FLASH 8M SPI	AT26DF081A-SU
IC2401	9JD-----	MEMORY DATA NAND FLASH 256M	HY27US08561A-TP
△IC2402	9JDI0GF95ZN10	VO=0.8-3.5V I=1.5A TAPING	PQ035ZN1HZPH
△IC3002	9JDI07F078200	VARIABLE REG LOW INPUT IO=1A	BD7820FP-E2
△IC3003	9JDI1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F
△IC3004	9JDI1ZF9181D0	REGULATOR 1.8V	RP131H181D-T1-F
△IC3005	9JDI53F958090	2.5A 1CH STEP DOWN SW REG	LV5809MX
△IC3006	9JDI1ZF9251D0	REGULATOR 2.5V	RP131H251D-T1-F
△IC3007	9JDI1ZF9090B0	REG VOUT=9V HSOP 6PIN	R1190S090B-E2-F
△IC3008	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
△IC3009	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
△IC3010	9JDI53F958090	2.5A 1CH STEP DOWN SW REG	LV5809MX
△IC3013	9JDI1ZF9501D0	REGULATOR 5V	RP131H501D-T1-F
IC3600	9JDS54B01WE01	MEMORY DATA EEPROM 2K I2C	AT24C02BN-SH-T
IC3601	9JDS54Z01AE01	MEMORY DATA EEPROM 2K I2C	AT24C02BN-SH-T
IC4200	9JDIC8NF82920	AUDIO MULTIPLEXER 56PIN QFN	MT8292N
IC4201	9JDI0UF015010	A/V SW 2INPUT 1OUTPUT	MM1501XNRE
IC7200	9JDIFJJ085210	AUDIO DAC 2V RMS LINE OUT	WM8521HCGED/RV
IC9600	9JDIC8K082950	DTV SYSTEM IC 128PIN QFP	MT8295AE

*** TRANSISTORS ***

Q300	9JDTAAAA05001	COMPOUND TRANSISTOR	KRA101SRTK
Q301	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q307	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q308	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q800	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3001	9JDTNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3002	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3003	9JDTL4A01664Y	TRANSISTOR SILICON	KTA1664-Y(GP)
Q3004	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q3005	9JDTL4A01664Y	TRANSISTOR SILICON	KTA1664-Y(GP)
△Q3012	9JDTJ5MC61080	FET	TPC6108
Q3602	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3609	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4201	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q4202	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q4203	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4204	9JDTPAAB05001	COMPOUND TRANSISTOR	KRA102SRTK
Q4207	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4208	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4209	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4210	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4212	9JDT27T035410	FET	2SK3541_T2L
Q4214	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4215	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4216	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q4217	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q4218	9JDTNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4219	9JDT27T035410	FET	2SK3541_T2L
Q4220	9JDT27T035410	FET	2SK3541_T2L
Q4221	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q4222	9JDTPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q5800	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK

*** COILS ***

B300	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B301	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B302	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B306	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B307	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B308	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B800	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B802	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B803	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02

ELECTRICAL REPLACEMENT PARTS LIST

B804	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B805	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B806	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B807	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B808	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B809	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B810	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B821	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B826	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B827	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B828	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B829	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B830	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B831	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B2401	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2800	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2801	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B2805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3005	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3600	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B3601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4200	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4203	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4204	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4205	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4206	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4207	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4208	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4209	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4210	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4212	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4213	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4214	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4216	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4217	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4218	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4219	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4223	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4225	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4226	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4228	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4229	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4230	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4231	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4232	9JD024HC13914	CORE,BEADS	HCB3216KF-391T20
B4233	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4236	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B4237	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B4238	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4239	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4240	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4244	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4245	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4250	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B4253	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4301	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4302	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4303	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4304	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4305	9JD024HC58005	CORE,BEADS	FCM1608CF-800T04
B4306	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4312	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06
B4322	9JD024HC56005	CORE,BEADS	FCM1608CF-600T06
B4326	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5800	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5802	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5803	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B5804	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B7200	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B9600	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9601	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9602	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9603	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
B9604	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20

ELECTRICAL REPLACEMENT PARTS LIST

B9605	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
L300	9JD021D0N220M	COIL	22 UH
L301	9JD021D0N220M	COIL	22 UH
L3000	9JD021UMK100P	COIL	10 UH
L3001	9JD021UMK100P	COIL	10 UH
L3003	9JD021UMK100P	COIL	10 UH
L3600	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3601	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3602	9JD02D1000119	COIL CHOKE	EXC28CG900U
L3603	9JD02D1000119	COIL CHOKE	EXC28CG900U
L4200	9JD021ES11R8K	COIL	1.8 UH
L4201	9JD021ES11R8K	COIL	1.8 UH
*** JACKS ***			
CP9600	9JD063M800014	HOLDER,IC	19_5028_068_531_899+
J4202	9JD060R431039	RCA JACK	RCA-228H(3)NI-02
J4203	9JD060R411058	RCA JACK	RCA-341H(NI)-09
J4204	9JD060R431040	RCA JACK	RCA-341H(2)NI-06
△J4205	9JD060R131025	HEADPHONE JACK	PJ-317-02
J4206	9JD063Y100102	SOCKET,21PIN	RGB-66H
J4207	9JD063Y100102	SOCKET,21PIN	RGB-66H
J4208	9JD060R131024	HEADPHONE JACK	PJ-364H
J4301	9JD060R401140	RCA JACK	RCA-101HT(OR)
*** CONNECTORS ***			
CP4200	9JD069S250639	CONNECTOR PCB SIDE	A2001WR2-5P
CP4301	9JD069S230639	CONNECTOR PCB SIDE	A2001WR2-3P
*** CRYSTAL & CERAMIC OSCILLATORS ***			
X800	9JD100DT05403	CRYSTAL	DSX321G
X9600	9JD100GT02727	CRYSTAL	SMD-49 C27000J029
*** NETWORKS ***			
NR2400	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2402	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2403	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2404	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2804	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2805	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR2806	9JD110P4220M5	R,NETWORK	4D02WVGJ0220TCE
NR9600	9JD110P4330M5	R,NETWORK	4D02WVGJ0330TCE
*** OTHERS ***			
CP301	9JD06GG140019	CONNECTOR PCB SIDE	A2502WR-4A
CP800	9JD06GG260029	CONNECTOR PCB SIDE	A2001WV-6A
CP803	9JD06GG240029	CONNECTOR PCB SIDE	A2001WV-4A
CP804	9JD06G5AA1002	CONNECTOR PCB SIDE	USB-A1D102F-4B4N
CP2804	9JD06GG2U0049	CONNECTOR PCB SIDE	A2006WR-2*15P
CP3200	9JD06GG2F0029	CONNECTOR PCB SIDE	A2001WV-15A
CP3203	9JD06GG2E0029	CONNECTOR PCB SIDE	A2001WV-14A
CP3601	9JD06GDYL3038	CONNECTOR PCB SIDE	1A0300030
CP3602	9JD06GDYL3038	CONNECTOR PCB SIDE	1A0300030
CP4201	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
CP4302	9JD06G7S21501	CONNECTOR PCB SIDE	WD-00021-R
CP5800	9JD06GF2G0020	CONNECTOR PCB SIDE	WD-00028-R
SH3200	9JD126D000045	TERMINAL PIN	YQ-12
SH3201	9JD126D000045	TERMINAL PIN	YQ-12
SH3202	9JD126D000045	TERMINAL PIN	YQ-12
SH3205	9JD126D000045	TERMINAL PIN	YQ-12
DVD MT PCB ASS'Y			
*** PCB ***			
PCB130	9JDA55A02A130M	DVD MT PCB ASS'Y	DMJ120B

ELECTRICAL REPLACEMENT PARTS LIST

*** DIODES ***

D2301	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D2302	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D4001	9JDDGERMA1110	DIODE SILICON	MA111-(TX)

*** ICS ***

△IC2301	9JDI1UFV5766S	5CH MOTOR DRIVER IC	AM5766
IC4001	9JDIC8K0389LD	DVD MPEG 128PIN MEDIATEK	MT1389DE/L-L
IC4004	9JD-----	MEMORY DATA 16MBIT FLASH 100MHZ	EN25Q16-100HIP
IC4005	9JDIGXJ01620F	SDRAM 64M CL=2	HY57V641620FTP-7
IC8501	9JDI0QF045650	DUAL OPEAMP	NJM4565M(TE1)
△IC8502	9JDI1ZF981D50	REGULATOR 1.8V	RP131H181D5-T1-F

*** TRANSISTORS ***

Q2301	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2302	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2303	9JDTAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
Q2304	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q2305	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q8506	9JDT27T035410	FET	2SK3541_T2L
Q8507	9JDT27T035410	FET	2SK3541_T2L

*** COILS ***

B2341	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B2342	9JD024HC56013	CORE,BEADS	FCM1608KF-601T02
B4003	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4008	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4010	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B4012	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8501	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8502	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
B8503	9JD024HC51216	CORE,BEADS	HCB1608KF-121T20
B8504	9JD024HC51023	CORE,BEADS	FCM1608KF-102T02
L8501	9JD021ES11R8K	COIL	1.8 UH

*** CONNECTORS ***

CP2301	9JD069EVKT01C	CONNECTOR PCB SIDE	04_6232_422_008_868+
CP2302	9JD069EV5001C	CONNECTOR PCB SIDE	00_6232_005_006_894+
CP2303	9JD069EV4001C	CONNECTOR PCB SIDE	00_6232_004_006_894+

*** CRYSTAL & CERAMIC OSCILLATORS ***

X4001	9JD1003T02733	CRYSTAL	HC49SFWB
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*** NETWORKS ***

NR4002	9JD11074330M7	R,NETWORK	CRA108330JV
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*** OTHERS ***

CP8501	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
CP8502	9JD06GG280019	CONNECTOR PCB SIDE	A2001WR-8A
SH8501	9JD126D000045	TERMINAL PIN	YQ-12
SH8502	9JD126D000045	TERMINAL PIN	YQ-12

POWER PCB ASS'Y

*** PCB ***

PCB240	9JDA55A02A240M	POWER PCB ASS'Y	CEJ549A
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*** RESISTORS ***

△R3811	9JDRC31X1125J	RC	1.2M OHM
△R3812	9JDRC31X1126J	RC	12M OHM 1
△R3825	9JDR3K781R22J	R,METAL OXIDE	0.22 OHM 1W
△R3830	9JDR002T4103J	RC	10K OHM
△R3851	9JDR3K78AR22J	R,METAL OXIDE	0.22 OHM 2W

ELECTRICAL REPLACEMENT PARTS LIST

△R3855	9JDR3K78AR22J	R,METAL OXIDE	0.22 OHM 2W
△R3860	9JDR655842R2J	R,FUSE	2.2 OH
△R3861	9JDR3K781823J	R,METAL OXIDE	82K OHM 1W
△R3864	9JDR002T2101J	RC	100 OH

*** CAPACITORS ***

△C3805	9JDE718HH331D	CE	330 UF
△C3808	9JDP4K12D224K	CMPP	0.22 UF
△C3809	9JDCE39E0M13M	CC	0.001 UF 250
△C3810	9JDCE39E0M13M	CC	0.001 UF 250
△C3811	9JDCE39E0M13M	CC	0.001 UF 250
△C3812	9JDCE39E0M13M	CC	0.001 UF 25
△C3813	9JDP4K12D224K	CMPP	0.22 UF 3
△C3825	9JDE63ZFH220D	CE	22 UF 400V
C3832	9JDC0340R6Q2K	CC	470 PF 1KV
C3833	9JDC0340R613K	CC	0.001 UF 1KV
C3836	9JDCP3YSL7Q1J	CC	47 PF 2
△C3837	9JDP4NBE5333J	CMPP	0.033 UF
△C3839	9JDC0390R6H3K	CC	0.0022UF 1KV
△C3840	9JDCE39E0MQ2K	CC	470 PF 250V
△C3841	9JDCE39E0MQ2K	CC	470 PF 250V
C3848	9JDE9E8F3102D	CE	1000 UF 25
C3849	9JDE9E8F3102D	CE	1000 UF 25V
△C3850	9JDE7EYT1102M	CE	1000 UF 10V
△C3851	9JDE8E1G4102M	CE	1000 UF 35V
△C3852	9JDE8E2T1471D	CE	470 UF 10V
C3853	9JDE9E8F3102D	CE	1000 UF 25V
C3855	9JDE8E1G4102M	CE	1000 UF 35V
C3856	9JDC0PLRR713K	CC	0.001 UF 2KV
C3870	9JDC03LOR7Q2K	CC	470 PF 2KV R

*** DIODES ***

△D3803	9JDD2Z05SB800	DIODE,BRIDGE	D5SB80
△D3804	9JDD7KE143020	DIODE VARISTA	S14K300E2S5M4
D3805	9JDD97U03001B	DIODE,ZENER	MTZJ30B T-77
D3806	9JDDOU011020M	DIODE VARISTA	DA38-102MB-M
△D3807	9JDD4CTN40060	DIODE SILICON	1N4006-A5
△D3808	9JDD4CTN40060	DIODE SILICON	1N4006-A5
D3809	9JDD2ARMAB340	DIODE SCHOTTKY	SMAB34
D3810	9JDD4CT01H6A0	DIODE RECTIFIER	1H6-A2
D3811	9JDDOU011020M	DIODE VARISTA	DA38-102MB-M
D3812	9JDD97U03001B	DIODE,ZENER	MTZJ30B T-77
D3813	9JDDJBUA15012	DIODE ZENER	HZS15NB2
D3814	9JDDDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
D3815	9JDD4AT106FE0	DIODE RECTIFIER	RL106F-E
D3816	9JDD1VT001330	DIODE,SILICON	1SS133T-77
D3817	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
D3818	9JDD28R11FS40	DIODE SCHOTTKY	EC11FS4-TE12L
D3819	9JDD28A10A450	DIODE SCHOTTKY BARRIER	FCQS10A045
△D3820	9JDD2LT001F50	DIODE SILICON	1F5-E
△D3821	9JDD28A10A061	DIODE SCHOTTKY BARRIER	FCQS10A065
D3822	9JDD28A10A080	DIODE SCHOTTKY BARRIER	FCHS10A08
D3824	9JDD97U01801B	DIODE,ZENER	MTZJ18B T-77
△D3825	9JDD28A10A200	DIODE SILICON	FCF10A20
D3828	9JDD28R1QS040	DIODE	EC31QS04-TE12L
D3830	9JDDJBUA15012	DIODE ZENER	HZS15NB2
D3832	9JDDJBUA22012	DIODE ZENER	HZS22NB2
D3833	9JDD97U01801B	DIODE,ZENER	MTZJ18B T-77

*** ICS ***

△IC3801	9JDI1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT
△IC3802	9JDI16D052030	CURRENT RESONANT CTL IC	MCZ5203NA-7101
△IC3803	9JDI5PD028LN0	VIPER28LN	VIPER28LN
IC3804	9JDI1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	KIA431A-AT
△IC3805	9JDI5HJ950UC0	REGULATOR VO=5.0V IO=800MA	S-1170B50UC-OUJTFG
IC3806	9JDTK9A3443B0	FET	SI3443BDV-T1-E3
△IC3807	9JDI53F958930	1.8A 1CH STEP DOWN SW REG	LV5893M
△IC3808	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
IC3809	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
△IC3810	9JD000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)

ELECTRICAL REPLACEMENT PARTS LIST

*** TRANSISTORS ***

△Q3802	9JDTAAT01281Y	TRANSISTOR SILICON	KTA1281_Y
△Q3805	9JDTJXG10NK50	FET	STF10NK50Z
△Q3806	9JDTJXG10NK50	FET	STF10NK50Z
Q3807	9JDTCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3809	9JDTAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
Q3812	9JDTNAAA05001	COMPOUND TRANSISTOR	KRC101S-RTK
Q3813	9JDTAAT012714	TRANSISTOR, SILICON	KTA1271_Y-AT
Q3814	9JDTCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)

*** COILS ***

B3802	9JD024AC1121G	CORE,BEADS	BLM31PG121SN1L
L3801	9JD029B000185	COIL,LINE FILTER	JLB28120
L3802	9JD02167E100K	COIL	10 UH
L3803	9JD02167E100K	COIL	10 UH
L3806	9JD02167E100K	COIL	10 UH
L3807	9JD021D0N220M	COIL	22 U
L3810	9JD02F1000003	COIL CHOKE	DBE-68801

*** TRANSFORMERS ***

△T3801	9JD048728002H	TRANSFORMER,SWITCHING	8728002H
△T3802	9JD0481190141	TRANSFORMER,SWITCHING	81190141

*** JACKS ***

△J3801	9JD064Q2A0004	JACK,AC	CCT2302-0721C
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*** CONNECTORS ***

CD3806	9JD06CH282503	CORD CONNECTOR	CH282503
CP3808	9JD069S2F0629	CONNECTOR PCB SIDE	A2001WV2-15P
CP3809	9JD069S2E0629	CONNECTOR PCB SIDE	A2001WV2-14P

*** FUSES ***

△F3801	9JD0805T02501	FUSE	SCT 2.5A
△F3802	9JD0805T02501	FUSE	SCT 2.5A
F3803	9JD0835A02505	MICRO FUSE	20N_2500FSW

*** THERMISTOR ***

△TH3801	9JDDSQFVE4R0L	THERMISTOR	4D2-22LCS
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*** OTHERS ***

CP3803	9JD06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
EL2401	9JD124116281A	EYE LET	XRY16X28BD
EL2402	9JD124120301A	EYE LET	XRY20X30BD

OPERATION PCB ASS'Y

*** PCB ***

PCB270	9JDA55A02A270M	OPERATION PCB ASS'Y	CEJ550A
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*** SWITCHES ***

SW2201	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2202	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2203	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2204	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2205	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2206	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2207	9JD0504101T34	SWITCH,TACT	EVQ21505R
SW2208	9JD0504101T34	SWITCH,TACT	EVQ21505R

*** CONNECTORS ***

CP2202	9JD069S230639	CONNECTOR PCB SIDE	A2001WR2-3P
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ELECTRICAL REPLACEMENT PARTS LIST

TUNER PCB ASS'Y

*** PCB ***

PCB290	9JDA55A02A290M	TUNER PCB ASS'Y	CEJ571A
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*** COILS ***

B5805	9JD024HC51816	CORE,BEADS	HCB1608KF-181T20
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*** TUNER ***

 TU5800	9JD0164Y03008	DIGITAL TUNER	TDTW-S126D
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*** OTHERS ***

CP5801	9JD06GF2G0010	CONNECTOR PCB SIDE	WD-00027-R
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SH5801	9JD126D000045	TERMINAL PIN	YQ-12
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AND OTHERS

*** COILS ***

TR4201	9JD02AHB9A972	CORE,FERRITE	W5T29X7.5X19
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*** CONNECTORS ***

CD302	9JD06CH146004	CORD CONNECTOR	CH146004
CD2801	9JD06CHRU3601	CORD CONNECTOR	CHRU3601
CD3803	9JD06CH2E2702	CORD CONNECTOR	CH2E2702
CD3808	9JD06CH2F2501	CORD CONNECTOR	CH2F2501
CD3809	9JD06CH2E2502	CORD CONNECTOR	CH2E2502
CD4200	9JD06CH257503	CORD CONNECTOR	CH257503
CD4201	9JD06CH2E3507	CORD CONNECTOR	CH2E3507
CD4301	9JD06CH232503	CORD CONNECTOR	CH232503

*** AC CORD ***

 CD3811	9JD120S145802	CORD SET AC	0S145802
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*** OTHERS ***

BT001	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU
BT002	9JD141L003022	BATTERY,MANGAN	R6P(AR)2P WO GM PET EU

 SP301	9JD070Y056013	SPEAKER	S0412F22
 SP302	9JD070Y056013	SPEAKER	S0412F22

TM101	9JD076B0RV011	TRANSMITTER	ETR0088-010510LF
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 V2801	9JD09EV132027	LCD	V315B6-L01
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SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, New Jersey
07430-2135