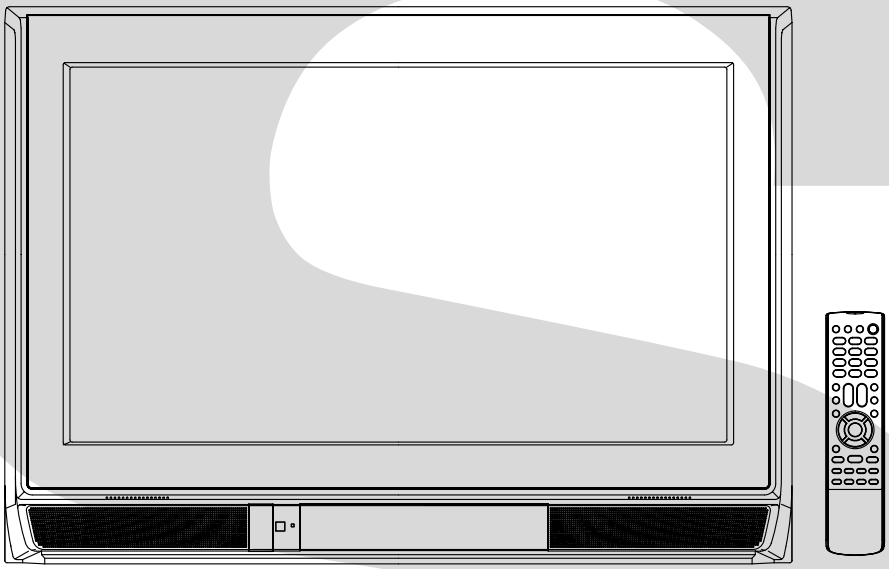
TOSHIBA

FILE NO. 050-200529GR
(MFR'S VERSION A)

SERVICE MANUAL

COLOR TELEVISION

26HF85C



The above model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), see the next page.

DOCUMENT CREATED IN JAPAN, September, 2005

(*1) GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing lead.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

(*2) LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the CE industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

WARNING

This product is manufactured using lead free solder.

DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT !

The melting temperature of lead-free solder is higher than that of leaded solder by 86°F to 104°F (30°C to 40°C). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product — especially when soldering large components, through-hole pins, and on PCBs — as the level of heat required to melt lead-free solder is high.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

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

2. AVOID AN ELECTRIC SHOCK

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

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.
Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a ⚠ mark, the designated parts must be used.

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

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

5. TAKE CARE TO DEAL WITH THE CATHODE-RAY TUBE

In the condition that an explosion-proof cathode-ray tube is set in this equipment, safety is secured against implosion. However, when removing it or serving from backward, it is dangerous to give a shock. Take enough care to deal with it.

6. AVOID AN X-RAY

Safety is secured against an X-ray by considering about the cathode-ray tube and the high voltage peripheral circuit, etc.
Therefore, when repairing the high voltage peripheral circuit, use the designated parts and make sure not modify the circuit.
Repairing except indicates causes rising of high voltage, and it emits an X-ray from the cathode-ray tube.

7. PERFORM A SAFETY CHECK AFTER SERVICING

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

(INSULATION CHECK PROCEDURE)

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

[Note 1]

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

[Note 2]

External exposure metal: Antenna terminal
Headphone jack

HOW TO ORDER PARTS

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

1. MODEL NUMBER and VERSION LETTER
   The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

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

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GENERAL SPECIFICATIONS

G-1	**TV System**	CRT	CRT Size / Visual Size	26 inch / 656.7mmV
			CRT Type	Flat (16:9)
			Magnetic Field BV/BH	+0.45G/0.18G
		Color System		NTSC
		Display Capability		1080i/540p
		Speaker		2 Speaker
			Position	Front Bottom
			Size	1.8 x 3.9 Inch
			Impedance	8 ohm
		Sound Output	MAX	5.0W+5.0W
			10%(Typical)	- W
		NTSC3.58+4.43 /PAL60Hz		No
G-2	**Tuning System**	Broadcasting System		US System M
		Tuner and Receive CH	System	1Tuner
			Destination	USA(W/ CABLE)
			CH Coverage	2 - 69, 4A, A-5 - A-1, A - I, J - W, W+1 - W+84
		Intermediate Frequency	Picture(FP)	45.75MHz
			Sound(FS)	41.25MHz
			FP-FS	4.50MHz
		Preset CH		No
		Stereo/Dual TV Sound		Yes
		Tuner Sound Muting		Yes
G-3	**Power**	Power Source	AC	120V AC 60Hz
			DC	
		Power Consumption	at AC	
				175 W at AC 120 V 60 Hz
			Stand by (at AC)	1 W at AC 120 V 60 Hz
			Per Year	-- kWh/Year
		Protector	Power Fuse	Yes
			Safety Circuit	Yes
			IC Protector(Micro Fuse)	Yes
G-4	**Regulation**		Safety	CSA
			Radiation	IC
			X-Radiation	HWC
G-5	**Temperature**		Operation	+5oC ~ +40oC
			Storage	-20oC ~ +60oC
G-6	**Operating Humidity**			Less than 80% RH

GENERAL SPECIFICATIONS

G-7	**On Screen Display**	Menu			Yes	
			Menu Type		Icon	
			Picture		Yes	
				Mode(Picture preference)	Yes	
				Brightness	Yes	
				Contrast	Yes	
				Color	Yes	
				Tint	Yes	
				Sharpness	Yes	
				Color Temperature	Yes	
				Display Format	Yes	
				Cable Clear	Yes	
				SVM	Yes	
				Reset	Yes	
			Audio		Yes	
				MTS	Yes	
				Bass	Yes	
				Treble	Yes	
				Balance	Yes	
				Stable Sound	Yes	
				Speakers On/Off	Yes	
				Dolby Virtual		No
				WOW SRS 3D		No
				WOW Focus		No
				WOW Tru Bass		No
				BBE	Yes	
				HDMI1	Yes	
				HDMI2		No
				Reset	Yes	
			Setup		Yes	
				Language	Yes	
				Clock Set	Yes	
				TV/CABLE	Yes	
				CH Program	Yes	
				Add/ Erase	Yes	
				Closed Caption	Yes	
				Picture Size	Yes	
				Picture Scroll	Yes	
				Cinema Mode	Yes	
				Aspect	Yes	
				Image Tilt	Yes	
			Option		Yes	
				On/Off Timer	Yes	
				Favorite CH	Yes	
				CH Label	Yes	
				VIDEO Label	Yes	
			Locks		Yes	
				V-Chip		No
				Lock	Yes	
				New Password	Yes	
				Front Panel Lock	Yes	
			Control Level		Yes	
				Volume	Yes	
				Contrast	Yes	
				Brightness	Yes	
				Color	Yes	
				Tint	Yes	
				Sharpness	Yes	
				Bass	Yes	
				Treble	Yes	
				Balance	Yes	
				Image Tilt	Yes	
				Picture Scroll	Yes	
			Stereo, SAP, Mono		Yes	
			Video		Yes	
			Color Stream(Component)		Yes	
			HDMI		Yes	
			Channel(TV/Cable)		Yes	
			CH Label		Yes	
			Video Label		Yes	
			Clock		Yes	
			Game Timer		Yes	
			Front Panel Lock		Yes	
			On Timer/Off Timer		Yes	
			Sleep Timer		Yes	
			Reset		Yes	
			Sound Mute		Yes	
			V-chip Rating			No
			NOT AVAILABLE		Yes	
			Picture Size		Yes	

GENERAL SPECIFICATIONS

G-8	**OSD Language**			English French Spanish
G-9	**Clock and Timer**	Sleep Timer	Max Time	120 Min
			Step	10 Min
		On/Off Timer	Program	Yes
		Wake Up Timer		No
		Timer Back-up (at Power Off Mode) more than		-- Min Sec
G-10	**Remote Control**	Unit		RC-KK
		Glow in Dark Remocon		Yes
		Back Light Remocon		No
		Remocon Format		Toshiba
		Format		Toshiba
		Custom Code		TV:40-BFh
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-4 x 2 pcs
		Total Keys		44 Keys
		Keys	Power	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			100 /+10	Yes
			CH Up	Yes
			CH Down	Yes
			Volume Up	Yes
			Volume Down	Yes
			TV/Video(Input Select)	Yes
			ENT,CH RTN(Quick View)	Yes
			Menu > / FAV Up	Yes
			Menu < / FAV Down	Yes
			Menu Up	Yes
			Menu Down	Yes
			Mute	Yes
			PIC SIZE (16:9)	Yes
			Sleep	Yes
			Exit	Yes
			Light	No
		Multi Brand Keys	TV	Yes
			CBL/SAT	Yes
			VCR	Yes
			DVD	Yes
		(DVD Keys)	Enter	Yes
			DVD Clear	Yes
			Top MENU	Yes
		(TV / DVD Keys)	RECALL(Call) / (Display)	Yes
			Menu/Enter / DVD MENU	Yes
		(DVD / VCR Keys)	Pause/Still	Yes
			FF	Yes
			Rew	Yes
			Play	Yes
			Stop	Yes
			<</Skip / Search Forward	Yes
			>>/Skip / Search Forward	Yes
		(VCR Keys)	Rec	Yes
			TV/VCR	Yes

GENERAL SPECIFICATIONS

G-11	**Features**	Auto Shut Off		Yes
		CABLE		Yes
		Power On Memory		Yes
		Memory(Last CH)		Yes
		Memory(Last Volume)		Yes
		V-Chip		No
			Type	
		SRS WOW(SRS 3D/Focus/Tru Bass)		No
		Virtual Dolby		No
		BBE		Yes(Digital)
		Timer(On Timer /Off Timer/Sleep Timer)		Yes
		Aspect		Yes
		Cinema Mode		Yes
		Image Tilt		Yes
		Direct Input Selection		Yes
		Auto Search		No
		CH Lock		Yes
		CH Program		Yes
		CH Label		Yes
		SAP		Yes
		Just Clock Function		No
		VIDEO Label		Yes
		SVM Circuit		Yes
		Comb Filter		Yes 3 -D
		Super Wide Band AMP		No
		Cable Clear		Yes
		Hotel Lock		No
		Closed Caption		Yes
		Stable Sound		Yes
		FBT Leak Test Protect		Yes
		Video Lock		Yes
		Game Timer(Max Time:120Min)		Yes
		Energy Star		Yes
		Favorite CH		Yes
		Variable Audio Out		Yes
		Picture Size		Yes
		Color Temperature Control		Yes
		Mode(Picture Preference)		Yes
		Front Panel Lock		Yes
		Available Scan Rates	(Component/HDMI)	480i/480p/720p/1080i
		Menu=Volume Up+Volume Down		Yes
		Auto Setup(Language/CH Program)		Yes
G-12	**Accessories**	Owner's Manual	Language	English / French
			W/ Warranty	Yes
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	
			Terminal	
		Loop Antenna		No
			Terminal	-
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Station List		No
		Important Safety Instruction		No
		Dew/AHC Caution Sheet		No
		AC Plug Adapter		No
		Quick Set-up Sheet		No
		Battery		Yes
			UM size x pcs	UM-4 x 2
			OEM Brand	No
		AC Cord		No
		AV Cord (2Pin-1Pin)		No
		Registration Card (NDL Card)		No
		PTB Sheet		No
		ESP Card		No
		300 ohm to 75 ohm Antenna Adapter		No
		Information Sheet(for HDMI)		No

GENERAL SPECIFICATIONS

G-13	**Interface**	Switch	Front	Power	Yes
				Channel Up/Menu Up	Yes
				Channel Down/Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
		Indicator		Power	Yes(RED)
				Stand-by	No
				On Timer	No
		Terminals	Front	Video Input = VIDEO3	RCA
				Audio Input = VIDEO3	RCA x 2
				S Input = VIDEO3	Yes
				Other Terminal	No
			Rear	Video Input(Rear1) = VIDEO1	RCA
				Video Input(Rear2) = VIDEO2	RCA
				S Input = VIDEO1	Yes
				S Input = VIDEO2	Yes
				Audio Input(Rear1) = VIDEO1	RCA x 2
				Audio Input(Rear2) = VIDEO2	RCA x 2
				Video Output	RCA
				Audio Output	RCA x 2 (Variable)
				Component Input1(w/ Analog Audio L/R)	RCA x 5
				Component Input2(w/ Analog Audio L/R)	RCA x 5
				HDMI Input1(w/ Analog Audio L/R)	HDMI x 1(RCA x 2)
				HDMI Input2(w/ Analog Audio L/R)	No
				Diversity	No
				Ext Speaker	No
				VHF/UHF Antenna Input	F Type
				AC Outlet	No
G-14	**Set Size**			Approx. W x D x H (mm)	700 x 502 x 495.5
G-15	**Weight**			Net (Approx.)	36.0 kg (79.4 lbs)
				Gross (Approx.)	41.5kg (91.5lbs)
G-16	**Carton**		Master Carton		No
				Content	---- Sets
				Material	-- /--
				Dimensions W x D x H(mm)	-- x -- x --
				Description of Origin	No
			Gift Box	Material	Double/Brown
				Dimensions W x D x H(mm)	840 x 620 x 627
				Description of Origin	Yes
			Drop Test		Natural Dropping At 1 Corner / 2 Edges / 4 Surfaces
				Height (cm)	60 (ORION SPEC:31)
			Container Stuffing		156 Sets/40' container
G-17	**Cabinet Material**		Cabinet	Cabinet Front	PS 94V0 DECABROM
				Cabinet Rear	PS 94V0 NON-DECABROM
			PCB	Non-Halogen Demand	No
				Eyelet Demand	Yes
G-18	**Environment**		Pb-free Soldering		Yes
			Parts Specification(Phase3 : based on RoHS)		Yes

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF ANODE CAP

Read the following **NOTED** items before starting work.

* After turning the power off there might still be a potential voltage that is very dangerous. When removing the Anode Cap, make sure to discharge the Anode Cap's potential voltage.
* Do not use pliers to loosen or tighten the Anode Cap terminal, this may cause the spring to be damaged.

REMOVAL

1. Follow the steps as follows to discharge the Anode Cap. **(Refer to Fig. 1-1.)**
   Connect one end of an Alligator Clip to the metal part of a flat-blade screwdriver and the other end to ground.
   While holding the plastic part of the insulated Screwdriver, touch the support of the Anode with the tip of the Screwdriver.
   A cracking noise will be heard as the voltage is discharged.

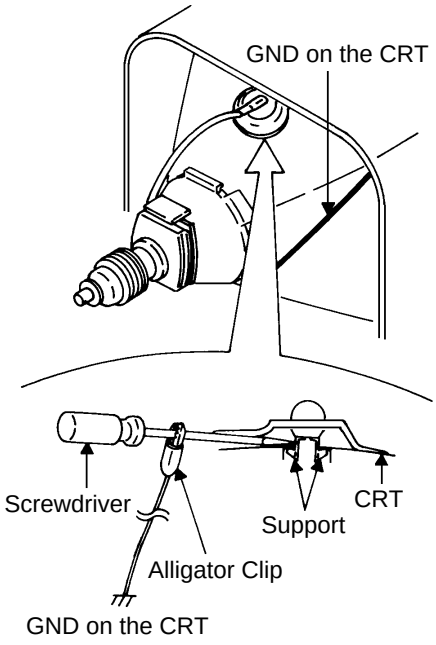


Fig. 1-1

2. Flip up the sides of the Rubber Cap in the direction of the arrow and remove one side of the support. **(Refer to Fig. 1-2.)**

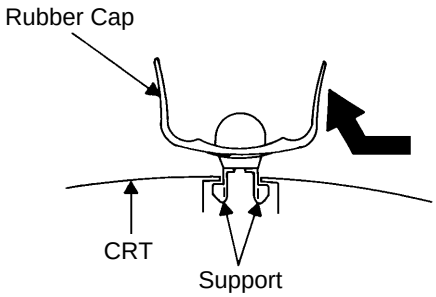


Fig. 1-2

3. After one side is removed, pull in the opposite direction to remove the other.

NOTE

Take care not to damage the Rubber Cap.

INSTALLATION

1. Clean the spot where the cap was located with a small amount of alcohol. **(Refer to Fig. 1-3.)**

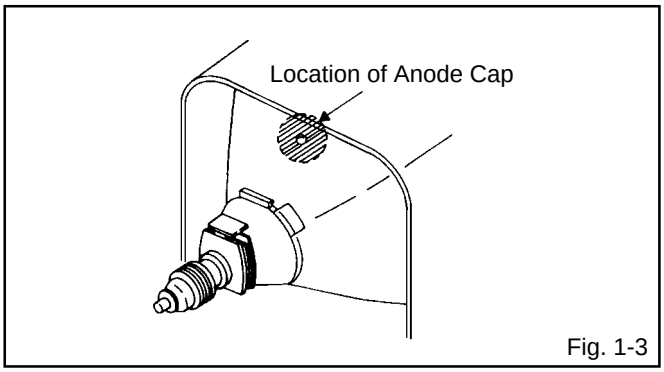
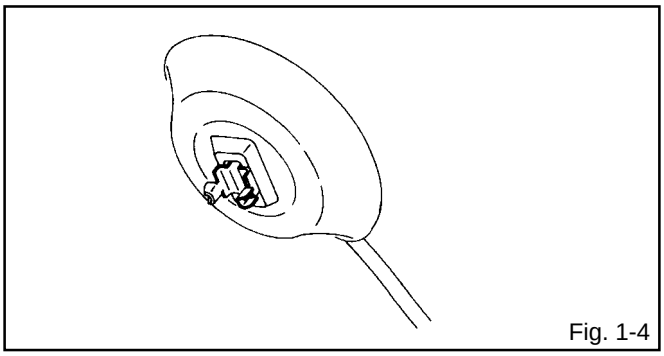


Fig. 1-3

NOTE

Confirm that there is no dirt, dust, etc. at the spot where the cap was located.

2. Arrange the wire of the Anode Cap and make sure the wire is not twisted.
3. Turn over the Rubber Cap. **(Refer to Fig. 1-4.)**


Fig. 1-4

4. Insert one end of the Anode Support into the anode button, then the other as shown in **Fig. 1-5**.

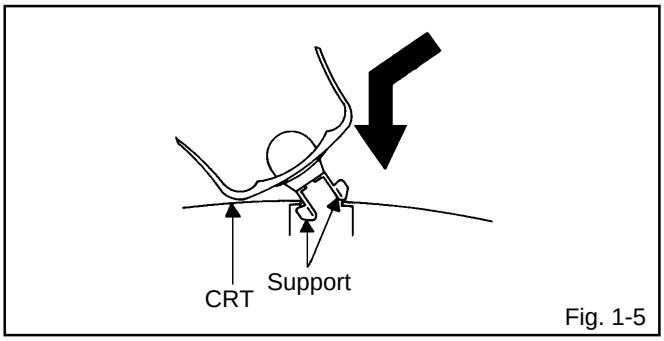


Fig. 1-5

5. Confirm that the Support is securely connected.
6. Put on the Rubber Cap without moving any parts.

DISASSEMBLY INSTRUCTIONS

2. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

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

   NOTE

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

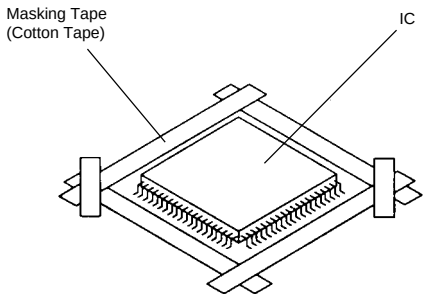


Fig. 2-1

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

   NOTE

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

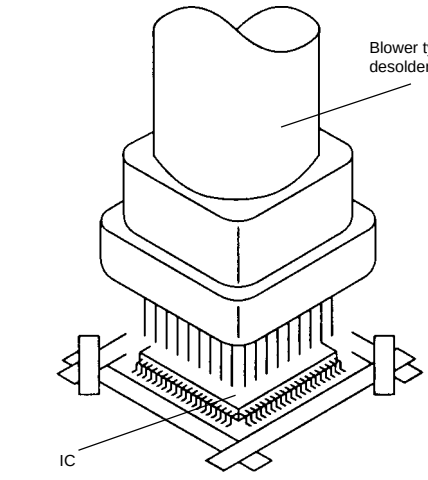


Fig. 2-2

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

   NOTE

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

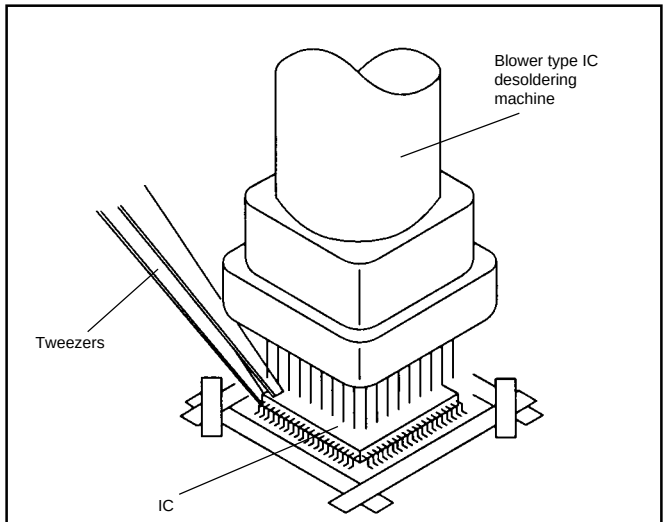


Fig. 2-3

4. Peel off the Masking Tape.

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

   NOTE

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

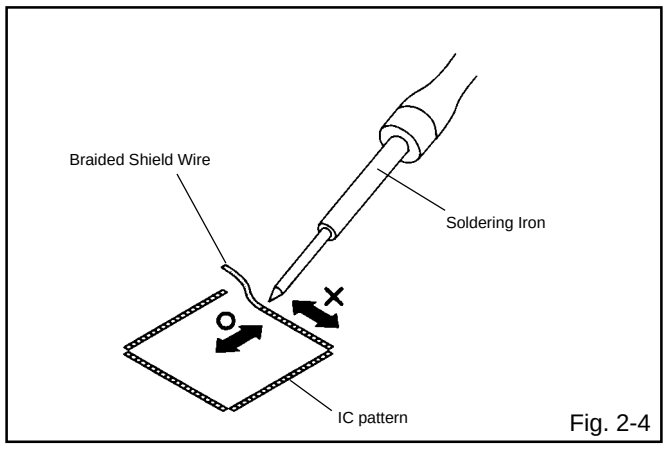


Fig. 2-4

DISASSEMBLY INSTRUCTIONS

INSTALLATION

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

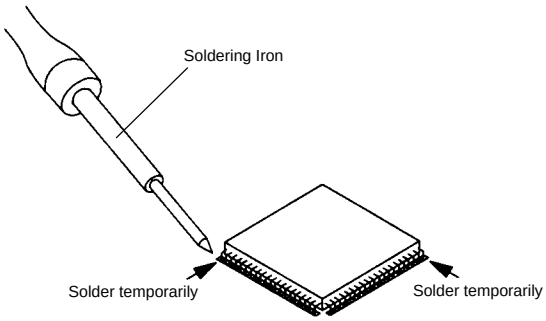


Fig. 2-5

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

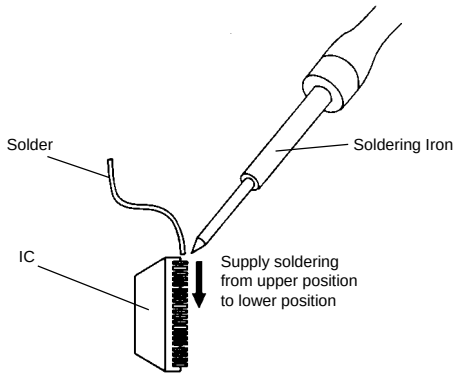


Fig. 2-6

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

   NOTE

   Do not absorb the solder to excess.

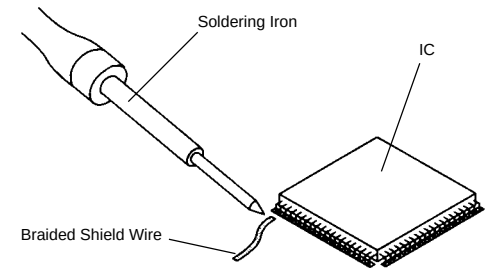


Fig. 2-7

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

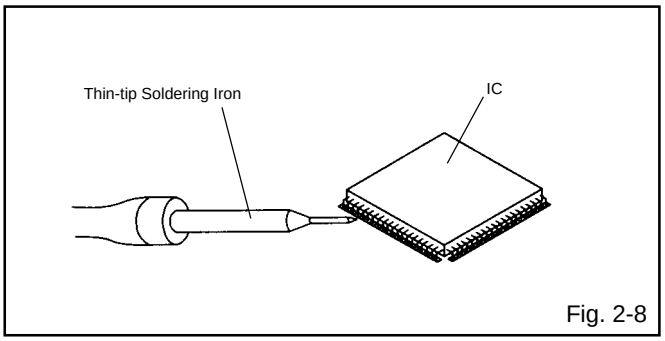


Fig. 2-8

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

   NOTE

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

SERVICE MODE LIST

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.
To enter to the Service Mode, press both set key and remote control key for more than 2 seconds.

Set Key	Remocon Key	Operations
VOL. (-) MIN	0	Releasing of V-CHIP PASSWORD.
VOL. (-) MIN	1	Initialization of factory data. NOTE: Do not use this for the normal servicing. If you set a factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
VOL. (-) MIN	6	POWER ON total hours is displayed on the screen. Refer to the "CONFIRMATION OF HOURS USED". Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
VOL. (-) MIN	9	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

CONFIRMATION OF HOURS USED

POWER ON total hours can be checked on the screen. Total hours are displayed in 16 system of notation.

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

1. Set the VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds.
3. After the confirmation of using hours, turn off the power.

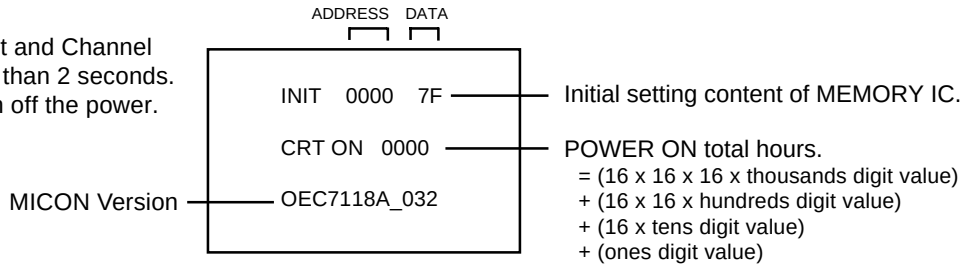


FIG. 1

WHEN REPLACING EEPROM (MEMORY) IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

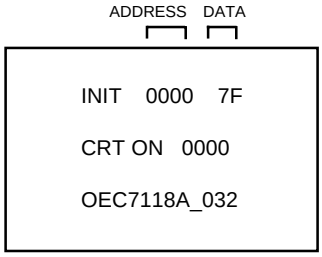


FIG. 1

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	7F	A2	05	C1	E6	1C	87	98	42	E4	B3	03	0D	36	03	05
10	01	05	1F	24	40	45	5D	62	45	4A	67	0F	15	0A	AA	64
20	88	00	00	00	00	00	00	00	00	1A	00	5A	98	33	04	76
30	77	05	07	22	10	07	00	22	74	81	01	07	06	40	40	40
40	8F	C0	40	00	27	0A	0A	00	13	40	00	51	70	72	99	59
50	68	99	59	00	73	14	1F	2D	24	16	00	00	00	00	00	FE
60	08	D6	D9	DB	15	00	00	26	06	07	09	00	C9	C8	E8	BC
70	40	0F	00	21	66	77	00	00	00	0F	1D	6D	FF	FF	FA	FA
80	FF	C0	52	50	8B	00	06	06	22	00	96	8B	6C	90	22	00
90	11	F0	00	07	00	00	00	B6	01	48	33	23	27	2A	2D	30
A0	33	36	39	3C	3F	42	45	48	4B	4E	51	53	55	57	58	59
B0	5A	5B	5C	5D	5E	5F	61	63	65	67	69	6A	6B	6C	6D	6E
C0	6F	70	71	71	72	72	73	73	74	74	75	75	75	75	76	76
D0	76	76	77	77	77	77	78	78	78	78	79	42	00	00	00	0B
E0	15	18	11	14	E0	E6	F5	2B	38	FF	17	31	36	40	00	3F
F0	54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
100	DC	F1	21	66	66	0C	71	69	33	00	0E	38	22	66	DA	71
110	69	33	00	44	00	77	5E	99	59	03	82	88	88	00	82	01
120	00	03	82	03	82	0F	85	00	82	8D	83	00	82	D0	01	82
130	00	82	00	82	0D	00	05	11	00	11	00	11	1A	00	1C	00
140	00	73	00	00	00	25	1E	F4	05	16	A4	03	03	00	7F	7F
150	00	7E	7E	0E	0A	00	00	00	00	84	00	00	00	00	00	83
160	00	00	00	00	00	20	0F	FF	F3	EC	FF	FF	FF	FF	FF	FF
170	FF	FF	FB	00	10	01	FB	00	20	01	FB	00	4D	01	FB	00
180	2A	01	FB	00	10	01	FB	00	05	01	FB	00	19	01	FB	00
190	42	01	FB	00	27	01	FB	00	05	01	77	77	77	---	---	---

Table 1

WHEN REPLACING EEPROM (MEMORY) IC

1. Enter DATA SET mode by setting VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 1.
3. ADDRESS is now selected and should "blink". Using the UP/DOWN button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
4. Press RIGHT/LEFT button to select DATA. When DATA is selected, it will "blink".
5. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
6. Pressing RIGHT/LEFT button will take you back to ADDRESS for further selection if necessary.
7. Repeat steps 3 to 6 until all data has been checked.
8. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

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

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

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

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

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

CAUTION

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

Prepare the following measurement tools for electrical adjustments.

1. Oscilloscope
2. Digital Voltmeter
3. Multi-sound Generator
4. Pattern Generator

On-Screen Display Adjustment

1. In the condition of NO indication on the screen.
2. Press the VOL. DOWN button on the set and the Channel button **(9)** on the remote control for more than 2 second to appear the adjustment mode on the screen as shown in **Fig. 1-1**.

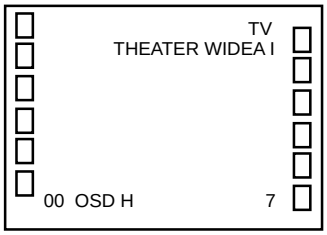


Fig. 1-1

3. Use the Channel UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 1-2**.
4. Press the MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for AV, CS and HD-MI mode, press the TV/VIDEO button on the remote control to set to the AV, CS and HD-MI mode. Press the VOL.DOWN button on the set and the channel **(9)** on the remote control for more than 2 seconds.

NO.	FUNCTION	NO.	FUNCTION	NO.	FUNCTION
00	OSD H	20	CORNER	40	R-Y PHASE
01	CUT OFF	21	C.PARA	41	G-Y GAIN
02	H.POSI	22	C.SAW	42	G-Y PHASE
03	V.POSI	23	V.SYMM	43	BRI.CENT
04	H. SIZE	24	R.BIAS	44	BRI.MAX
05	V. SIZE	25	G.BIAS	45	BRI.MIN
06	V. LIN	26	B.BIAS	46	CONT.CENT
07	V-EHT	27	R/G.DRV	47	CONT.MAX
08	H-EHT	28	B/R.DRV	48	CONT.MIN
09	V-BLK P	29	R.BIAS(C)	49	COL.CENT
10	V-BLK S	30	G.BIAS(C)	50	COL.MAX
11	V.CENT	31	B.BIAS(C)	51	COL.MIN
12	V.LIMIT	32	R/G.DRV(C)	52	SUB CONT
13	V.CORR	33	B/R.DRV(C)	53	TINT
14	V.S.CORR	34	R.BIAS(W)	54	SHARP.CENT
15	EW PARA	35	G.BIAS(W)	55	SHARP.MAX
16	TRAPEZIUM	36	B.BIAS(W)	56	SHARP.MIN
17	COR.TOP	37	R/G.DRV(W)	57	TILT.CENT
18	COR.BTM	38	B/R.DRV(W)	58	TEST STEREO
19	S.CORR	39	R-Y GAIN	59	TEST AUDIO

Fig. 1-2

2. BASIC ADJUSTMENTS

2-1: CUT OFF

1. Place the set in Aging Test for more than 15 minutes.
2. Place the set in AV MODE without signal.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(01)** on the remote control to select "CUT OFF".
5. Adjust the **Screen Volume** until a dim raster is obtained.

2-2: WHITE BALANCE

NOTE: Adjust after performing CUT OFF adjustment.

1. Place the set in Aging Test for more than 10 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(24)** on the remote control to select "R.BIAS".
5. Press the CH. UP/DOWN button on the remote control to select the "R.BIAS", "G.BIAS", "B.BIAS", "R/G.DRV", "B/R.DRV", "R.BIAS(C)", "G.BIAS(C)", "B.BIAS(C)", "R/G.DRV(C)", "B/R.DRV(C)", "R.BIAS(W)", "G.BIAS(W)", "B.BIAS(W)", "R/G.DRV(W)" or "B/R.DRV(W)".
6. Adjust the VOL. UP/DOWN button on the remote control to whiten the R.BIAS(C), G.BIAS(C), B.BIAS(C), R/G.DRV(C), B/R.DRV(C), R.BIAS(W), G.BIAS(W), B.BIAS(W), R/G.DRV(W) and B/R.DRV(W) at each step tone sections equally.
7. Perform the above adjustments 5 and 6 until the white color is achieved.

ELECTRICAL ADJUSTMENTS

2-3: FOCUS

1. Receive the monoscope pattern.
2. Turn the Focus Volume fully counterclockwise once.
3. Adjust the **Focus Volume** until picture is distinct.

2-4: OSD HORIZONTAL

1. Receive the monoscope pattern from the Pattern Generator.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(00)** on the remote control to select "OSD H".
4. Press the LEFT/RIGHT button on the remote control until the difference of A and B becomes minimum. **(Refer to Fig. 2-1)**

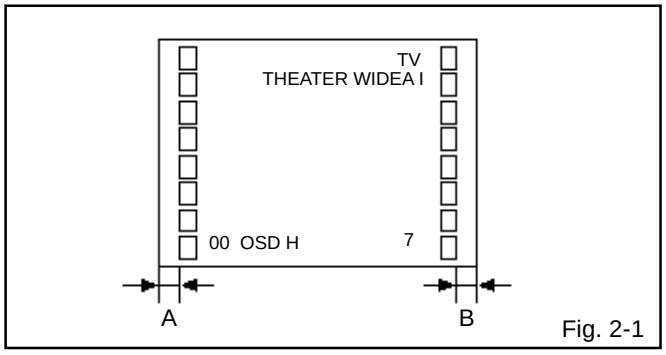


Fig. 2-1

2-5: HORIZONTAL POSITION/ HORIZONTAL SIZE

1. Receive the monoscope pattern.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(02)** on the remote control to select "H.POSI".
7. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on right and left becomes becomes minimum.
8. Receive the monoscope pattern.
9. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(04)** on the remote control to select "H. SIZE".
10. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on right and left becomes 7.5%.

2-6: VERTICAL CENT/ VERTICAL SIZE

1. Receive the monoscope pattern.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Using the remote control, set the brightness and contrast to normal position.
7. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(11)** on the remote control to select "V. CENT".
8. Press the VOL. UP/DOWN button on the remote control until the horizontal line becomes fit to the notch of the shadow mask.
9. Receive the monoscope pattern.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(05)** on the remote control to select "V. SIZE".
11. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on upside and downside becomes 8%.

2-7: VERTICAL LINEARITY

NOTE: Adjust after performing adjustments in section 2-6. After the adjustment of Vertical Linearity, reconfirm the Vertical Position and Vertical Size adjustments.

1. Receive the monoscope pattern.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Using the remote control, set the brightness and contrast to normal position.
7. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(06)** on the remote control to select "V. LIN".
8. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on upside and downside becomes 8%.

ELECTRICAL ADJUSTMENTS

2-8: BRIGHT CENT

1. Receive the monoscope pattern. (RF Input)
2. Set the screen mode to FULL.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(43)** on the remote control to select "BRI CENT".
5. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible
6. Receive the monoscope pattern. (Audio Video Input)
7. Press the TV/VIDEO button on the remote control to set to the AV mode. Then perform the above adjustments 2~5.
8. Receive the monoscope pattern.
9. Press the TV/VIDEO button on the remote control to set to the CS mode.Then perform the above adjustments 2~5.
10. Receive the monoscope pattern.
11. Press the TV/VIDEO button on the remote control to set to the HD-MI mode.Then perform the above adjustments 2~5.

2-9: SUB CONTRAST

1. Set the screen mode to FULL.
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(52)** on the remote control to select "SUB CONT".
3. Check if the step No. SUB CONT is "14".
4. Receive a broadcast and check if the picture is normal.
5. Press the TV/VIDEO button on the remote control to set to the AV mode.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(52)** on the remote control to select "SUB CONT".
7. Check if the step No. SUB CONT is "16".
8. Receive a broadcast and check if the picture is normal.
9. Press the TV/VIDEO button on the remote control to set to the CS mode.
10. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(52)** on the remote control to select "SUB CONT".
11. Check if the step No. SUB CONT is "21".
12. Receive a broadcast and check if the picture is normal. Press the TV/VIDEO button on the remote control to set to the HD-MI mode.
13. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(52)** on the remote control to select "SUB CONT".
14. Check if the step No. SUB CONT is "22".
15. Receive a broadcast and check if the picture is normal.

2-10: TRAPEZIUM

1. Receive the crosshatch signal from the Pattern Generator.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Using the remote control, set the brightness and contrast to normal position.
7. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(16)** on the remote control to select "TRAPEZIUM".
8. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines of the screen become parallel.

2-11: COR TOP/BTM

1. Receive the crosshatch signal from the Pattern Generator.
2. Set the screen mode to FULL.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(17)** on the remote control to select "COR. TOP".
5. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines become straight.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(18)** on the remote control to select "COR. BTM".
7. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines of the screen become parallel.

2-12: SEMSOR SAW

1. Receive the crosshatch signal from the Pattern Generator.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(22)** on the remote control to select "C.SAW".
7. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines of the screen become parallel.

ELECTRICAL ADJUSTMENTS

2-13: SEMSOR PARA

1. Receive the crosshatch signal from the Pattern Generator.
2. Press the MENU button. And, then press the LEFT/ RIGHT button on the remote control until the PICTURE menu appears.
3. Press the LEFT/RIGHT button on the remote control to highlight DISPLAY FORMAT.
4. Press the LEFT/RIGHT button on the remote control to select 1080i.
5. Set the screen mode to FULL.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(21)** on the remote control to select "C.PARA".
7. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines of the screen become parallel.

1. Receive the color bar pattern.
2. Connect the oscilloscope to **TP806**.
3. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(53)** on the remote control to select "TINT".
4. Press the VOL. UP/DOWN button on the remote control until the section "A" becomes as straight line. **(Refer to Fig. 2-2)**
5. Connect the oscilloscope to **TP805**.
6. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(49)** on the remote control to select "COL.CENT".
7. Press the VOL. UP/DOWN button on the remote control until the red color level is adjusted to 105 ± 10% of the white level. **(Refer to Fig. 2-3)**
8. Please check whether the waveform of TP806 is straight line. If is not a straight line, adjust to TINT again.
9. Receive the color bar pattern. (Audio Video Input)
10. Press the TV/VIDEO button on the remote control to set to the AV mode. Then perform the above adjustments 2~8.
11. Receive the color bar pattern.
12. Press the TV/VIDEO button on the remote control to set to the CS mode. Then perform the above adjustments 2~8.
13. Receive the color bar pattern.
14. Press the TV/VIDEO button on the remote control to set to the HD-MI mode. Then perform the above adjustments 2~8.

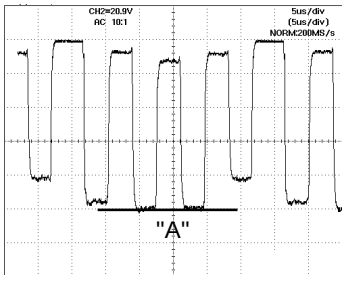


Fig. 2-2

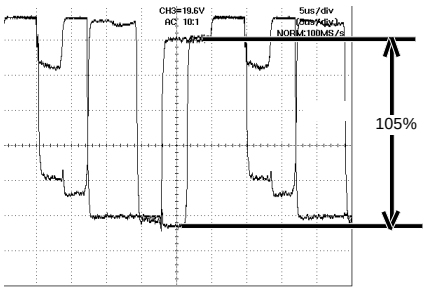


Fig. 2-3

2-15: TILT

1. Connect the digital voltmeter between **W843** and **W844**.
2. Receive the crosshatch signal from the Pattern Generator.
3. Press the PIC SIZE button on the remote control to select the FULL screen mode.
4. Using the remote control, set the brightness and contrast to normal position.
5. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(57)** on the remote control to select "TILT CENT".
6. Press the VOL. UP/DOWN button on the remote control until the voltage become minimum(0V).

2-16: E/W PARA

1. Receive the crosshatch signal from the Pattern Generator.
2. Set the screen mode to FULL.
3. Using the remote control, set the brightness and contrast to normal position.
4. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(15)** on the remote control to select "EW PARA".
5. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines become straight.
6. Set the screen mode to 4:3.
7. Press the VOL. UP/DOWN button on the remote control until the both ends vertical lines of the screen become parallel.

ELECTRICAL ADJUSTMENTS

2-17: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of the each adjustment items are set correctly referring below.

NO.	FUNCTION	RF	AV	CS	HD-MI
03	V.POSI	01	01	01	01
07	V-EHT	04	04	04	04
08	H-EHT	03	03	03	03
09	V-BLK P	31	31	31	31
10	V-BLK S	00	00	00	00
12	V.LIMIT	00	00	00	00
13	V.CORR	15	15	15	15
14	C.S.CORR	40	40	40	40
19	S.CORR	16	16	16	16
20	CORNER	15	15	15	15
23	V.SYMM	128	128	128	128
39	R-Y GAIN	08	08	08	08
40	R-Y PHASE	03	03	03	03
41	G-Y GAIN	05	05	05	05
42	G-Y PHASE	00	00	00	00
44	BRI.MAX	240	240	240	240
45	BRI.MIN	50	50	50	50
46	CONT.CENT	70	70	70	70
47	CONT.MAX	90	90	90	90
48	CONT.MIN	50	50	50	50
50	COL.MAX	100	100	127	127
51	COL.MIN	00	00	00	00
54	SHARP.CENT	55	55	64	64
55	SHARP.MAX	100	100	100	100
56	SHARP.MIN	00	00	00	00
58	TEST STEREO	00	00	00	00
59	TEST AUDIO	00	00	00	00

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

1. Turn the unit on and let it warm up for at least 30 minutes before performing the following adjustments.
2. Place the CRT surface facing east or west to reduce the terrestrial magnetism.
3. Turn ON the unit and demagnetize with a Degauss Coil.

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

1. Tighten the screw for the magnet. Refer to the adjusted CRT for the position. **(Refer to Fig. 3-1)**
   If the deflection yoke and magnet are in one body, untighten the screw for the body.
2. Receive the green raster pattern from the color bar generator.
3. Slide the deflection yoke until it touches the funnel side of the CRT.
4. Adjust center of screen to green, with red and blue on the sides, using the pair of purity magnets.
5. Switch the color bar generator from the green raster pattern to the crosshatch pattern.
6. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
7. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
8. Adjust the crosshatch pattern to change to white by repeating steps 6 and 7.

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

1. Receive the green raster pattern from color bar genera-
2. tor.
   Adjust the pair of purity magnets to center the color on the screen.
   Adjust the pair of purity magnets so the color at the ends
3. are equally wide.
   Move the deflection yoke backward (to neck side) slowly, and stop it at the position when the whole screen
4. is green.
5. Confirm red and blue color.
   Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

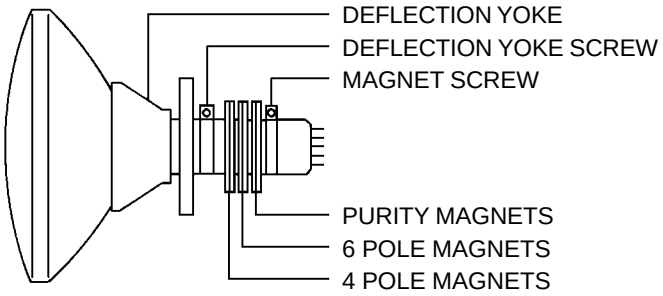


Fig. 3-1

3-3: STATIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-2.

1. Receive the crosshatch pattern from the color bar generator.
2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

NOTE

Adjust after performing adjustments in section 3-3.

1. Adjust the differences around the screen by moving the deflection yoke upward/downward and right/left. **(Refer to Fig. 3-2-a)**
2. Insert three wedges between the deflection yoke and CRT funnel to fix the deflection yoke. **(Refer to Fig. 3-2-b)**

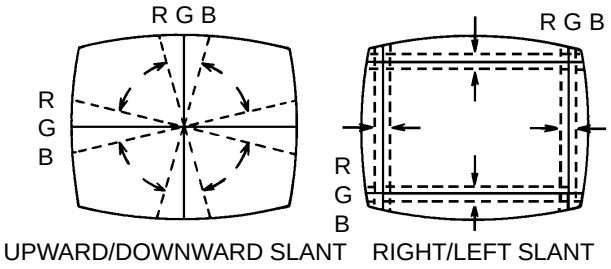


Fig. 3-2-a

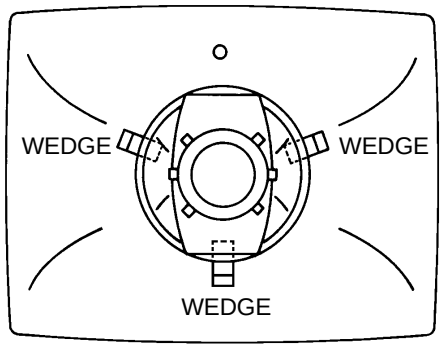
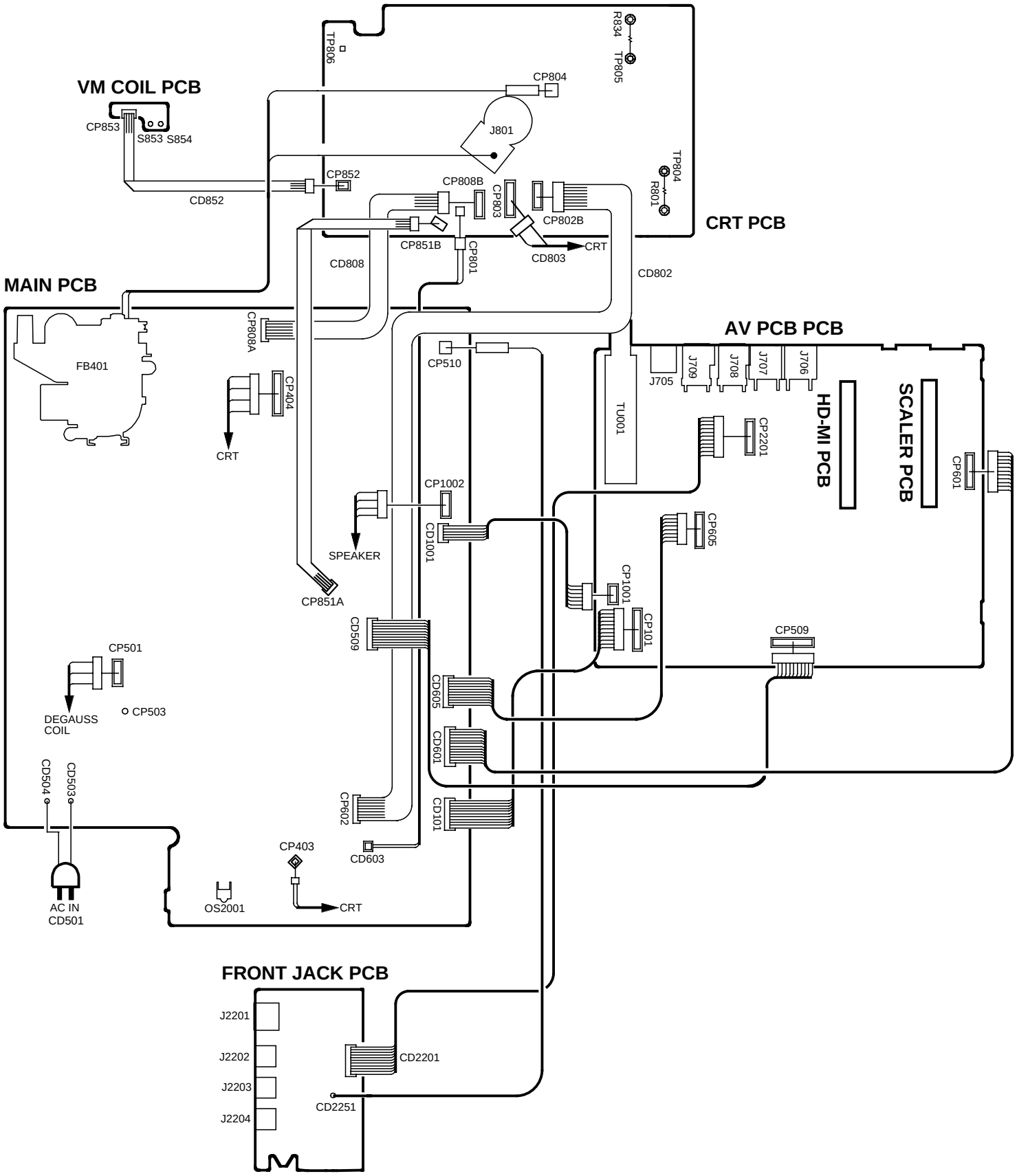


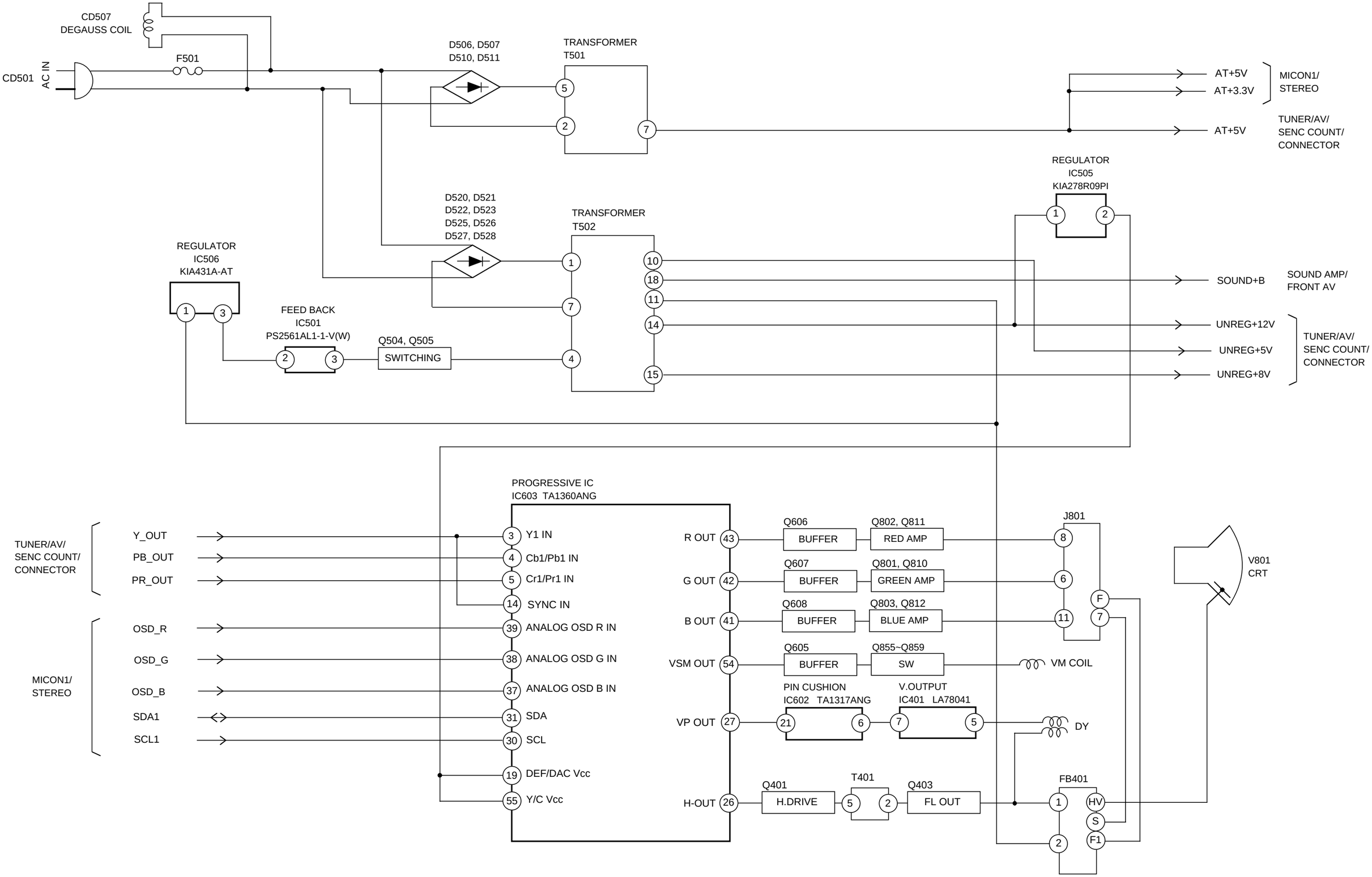
Fig. 3-2-b

ELECTRICAL ADJUSTMENTS

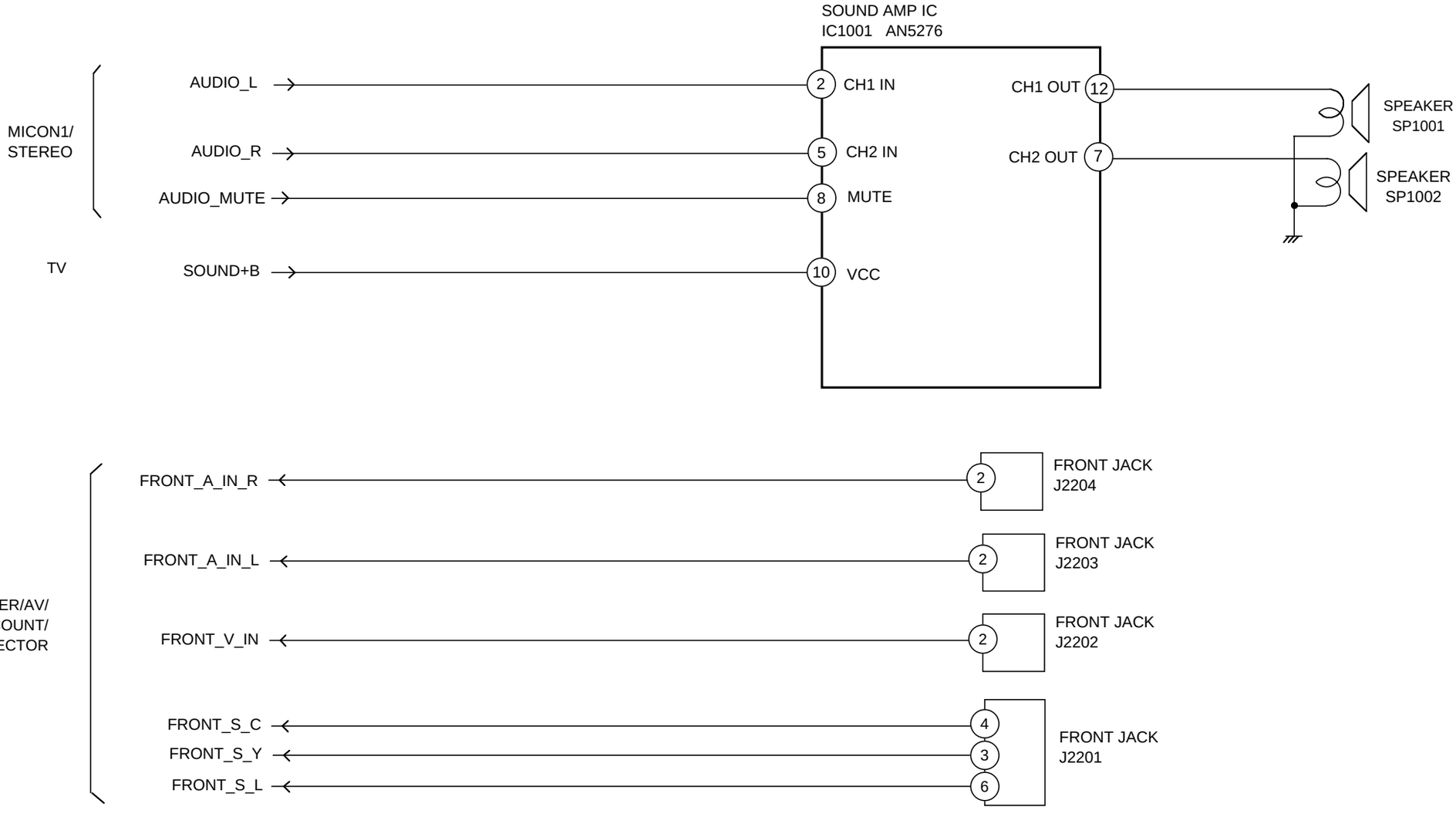
4. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



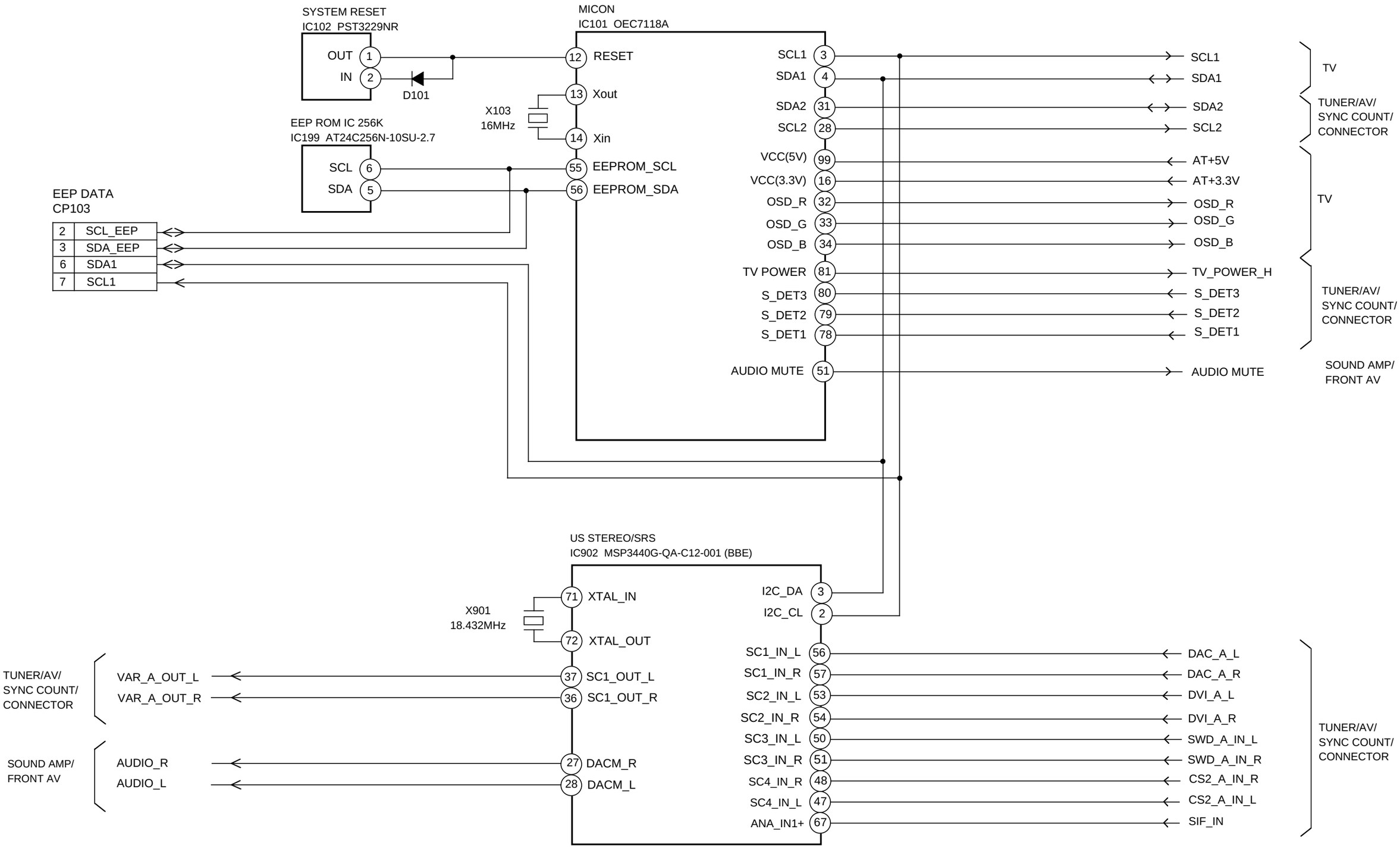
TV BLOCK DIAGRAM



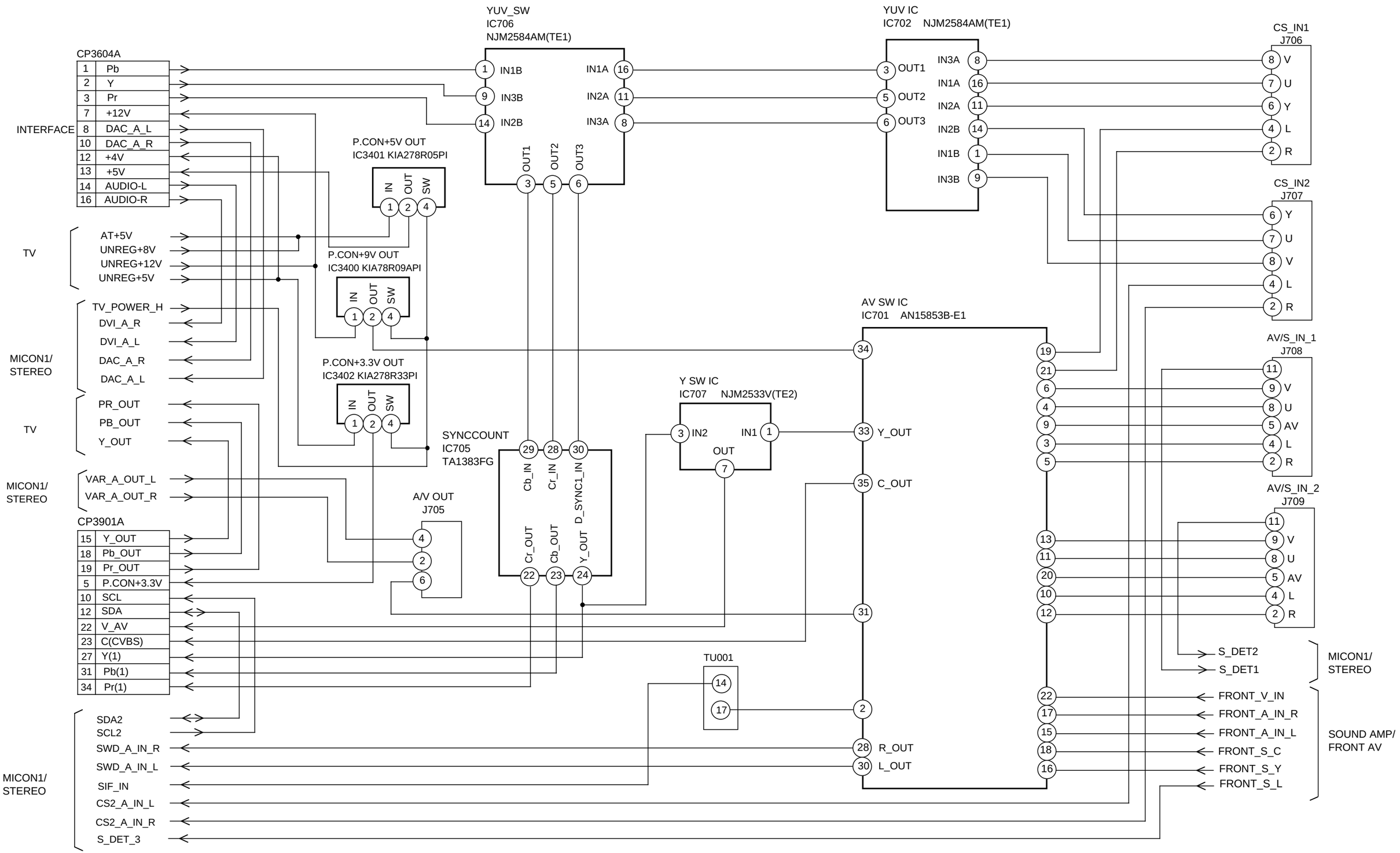
SOUND AMP/FRONT AV BLOCK DIAGRAM



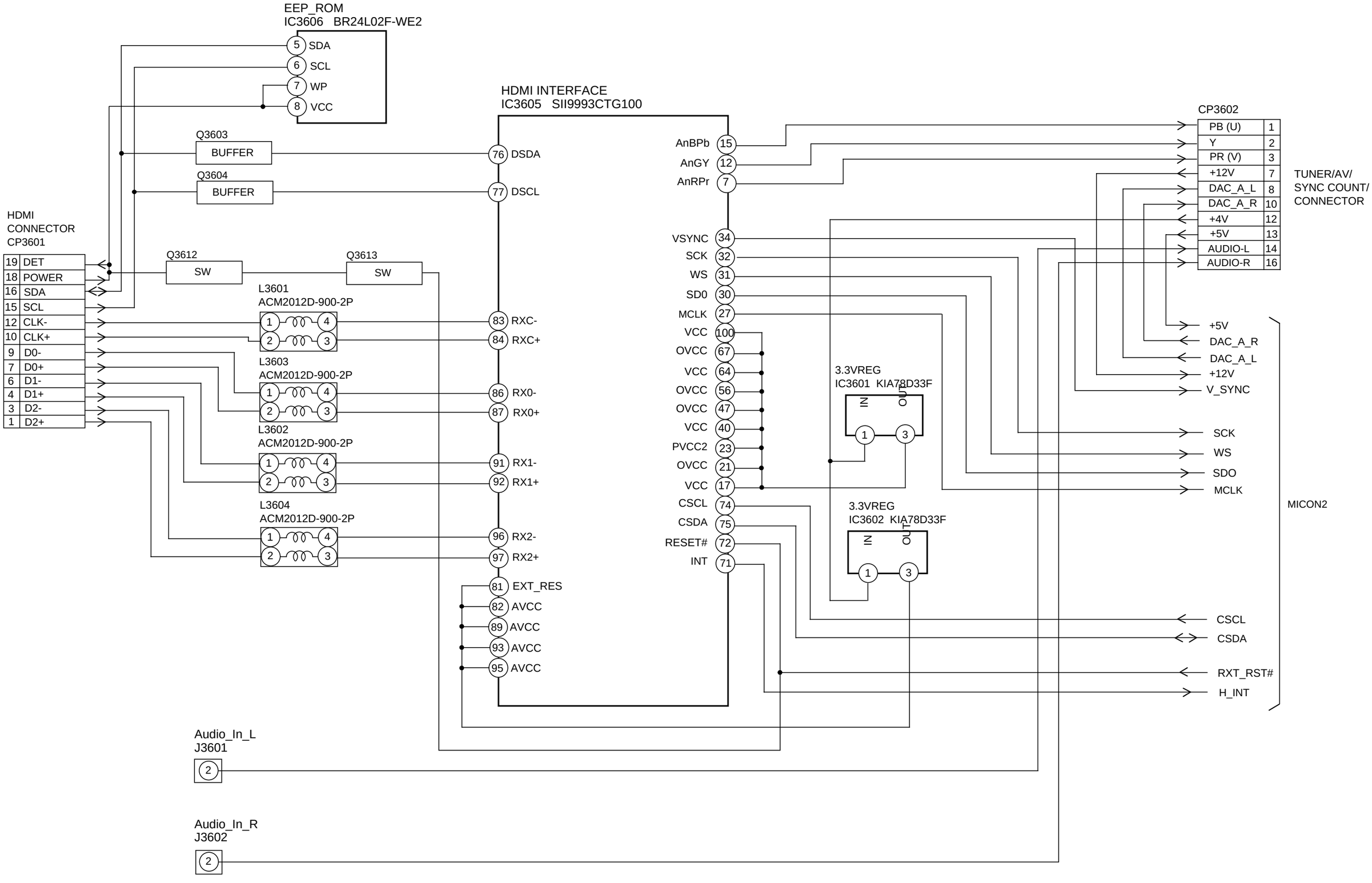
MICON1/STEREO BLOCK DIAGRAM



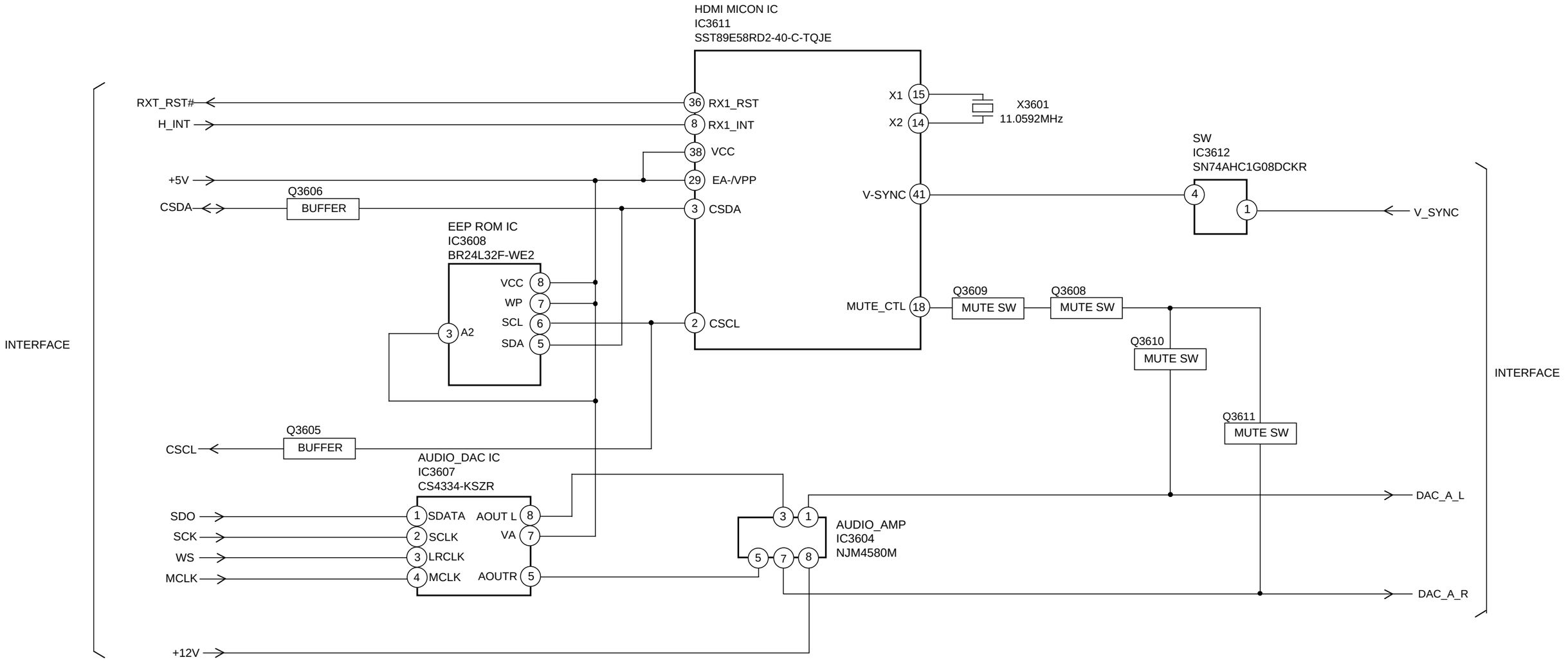
TUNER/AV/SYNC COUNT/CONNECTOR BLOCK DIAGRAM



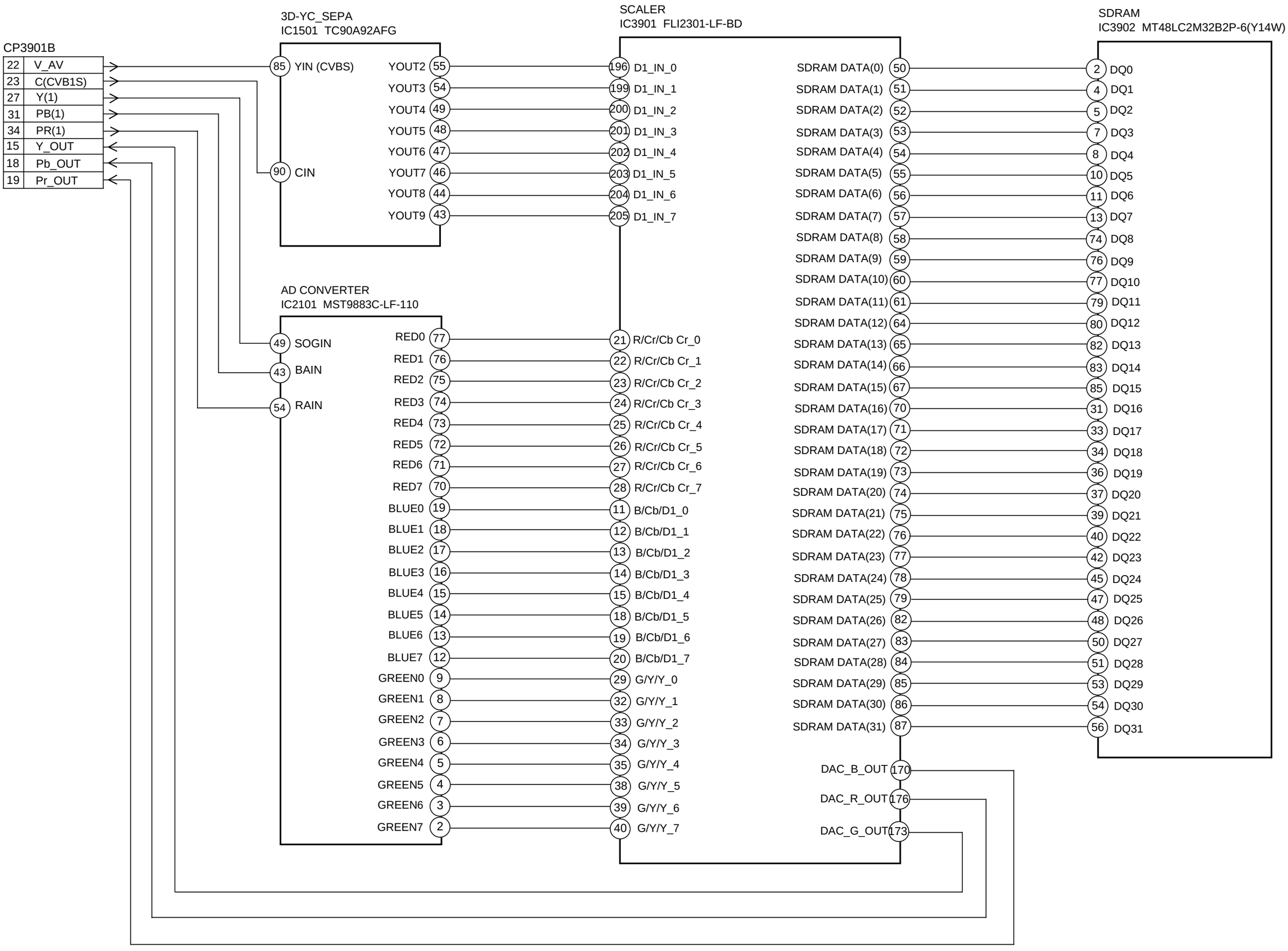
INTERFACE BLOCK DIAGRAM



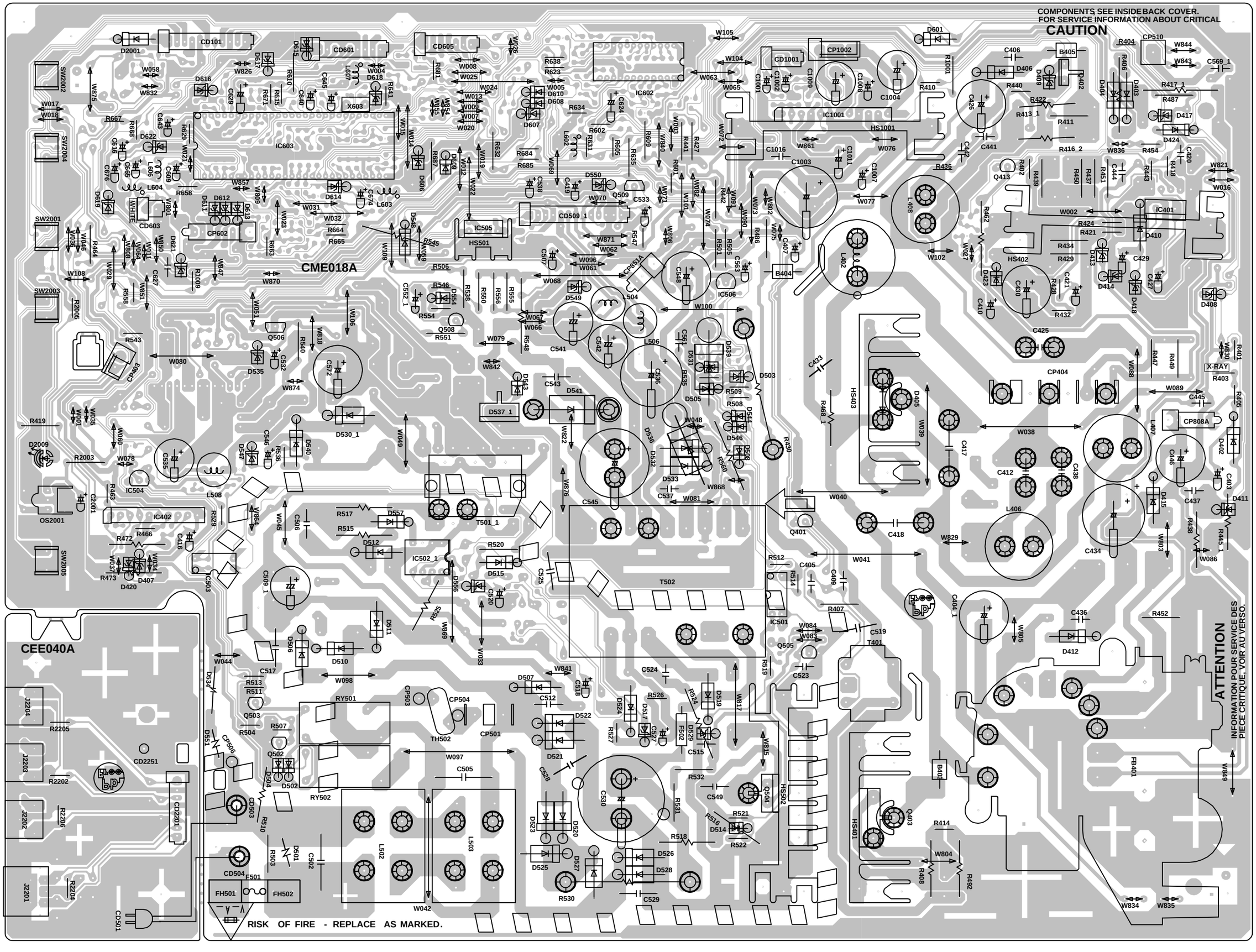
MICON2 BLOCK DIAGRAM



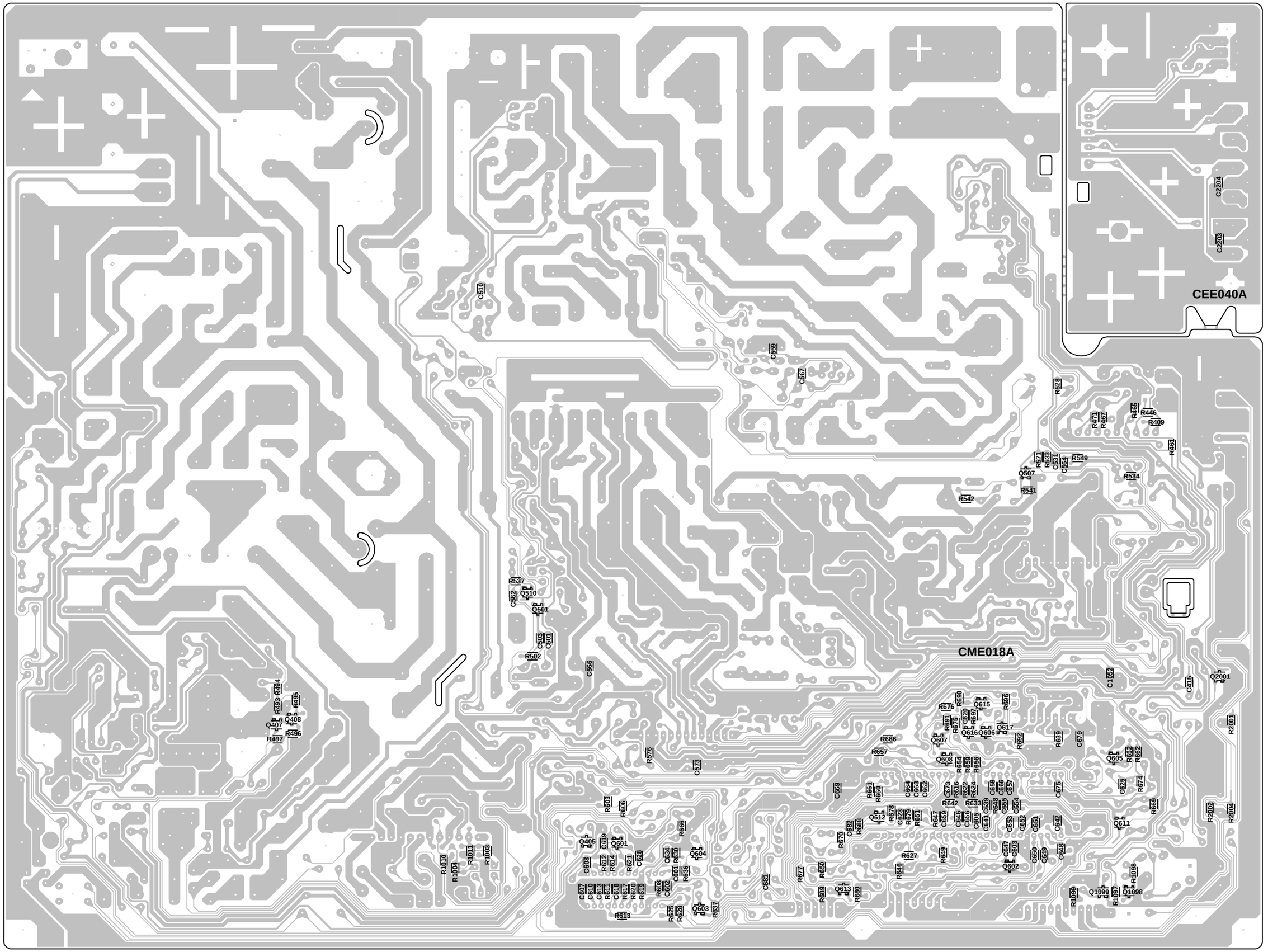
SCALER BLOCK DIAGRAM



PRINTED CIRCUIT BOARDS
MAIN/FRONT JACK (INSERTED PARTS)
SOLDER SIDE

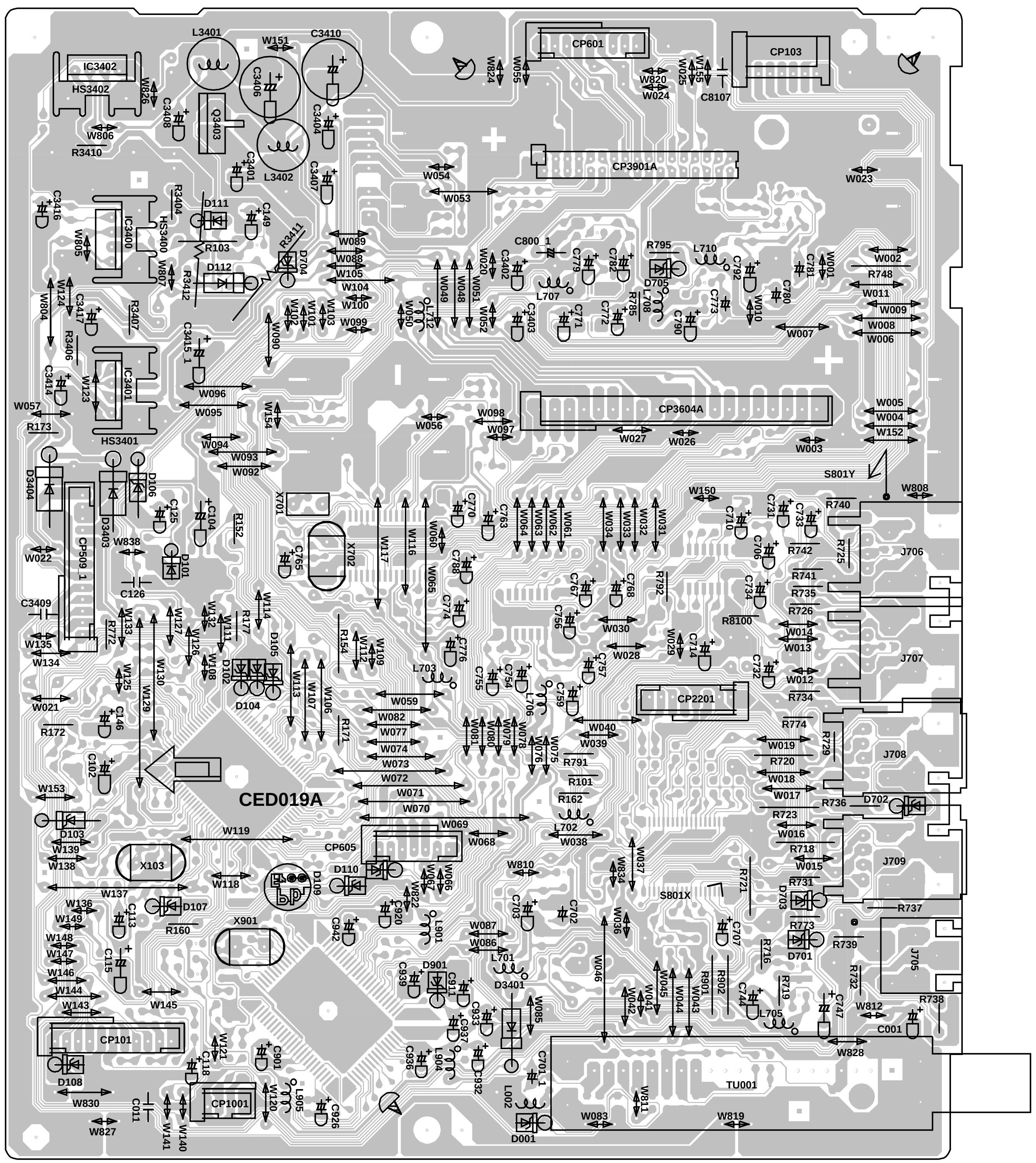


PRINTED CIRCUIT BOARDS
MAIN/FRONT JACK (CHIP MOUNTED PARTS)
SOLDER SIDE

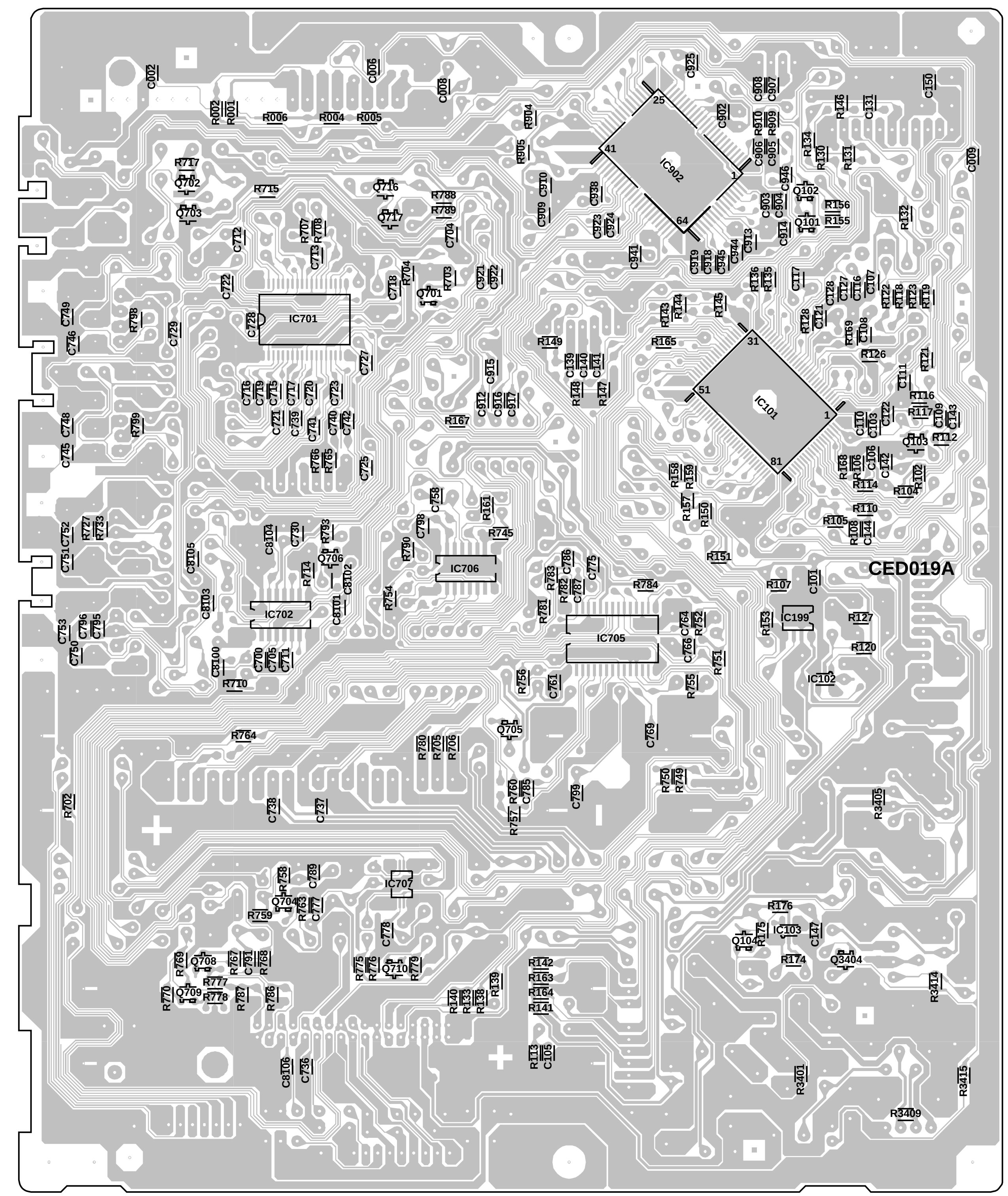


PRINTED CIRCUIT BOARDS

AV (INSERTED PARTS)
SOLDER SIDE

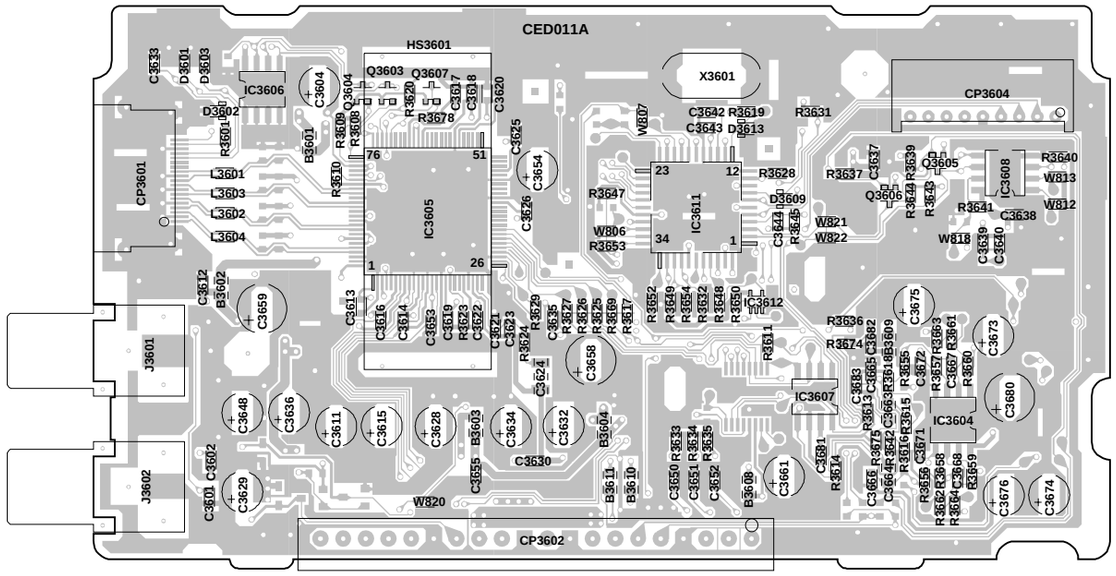


AV (CHIP MOUNTED PARTS)
SOLDER SIDE

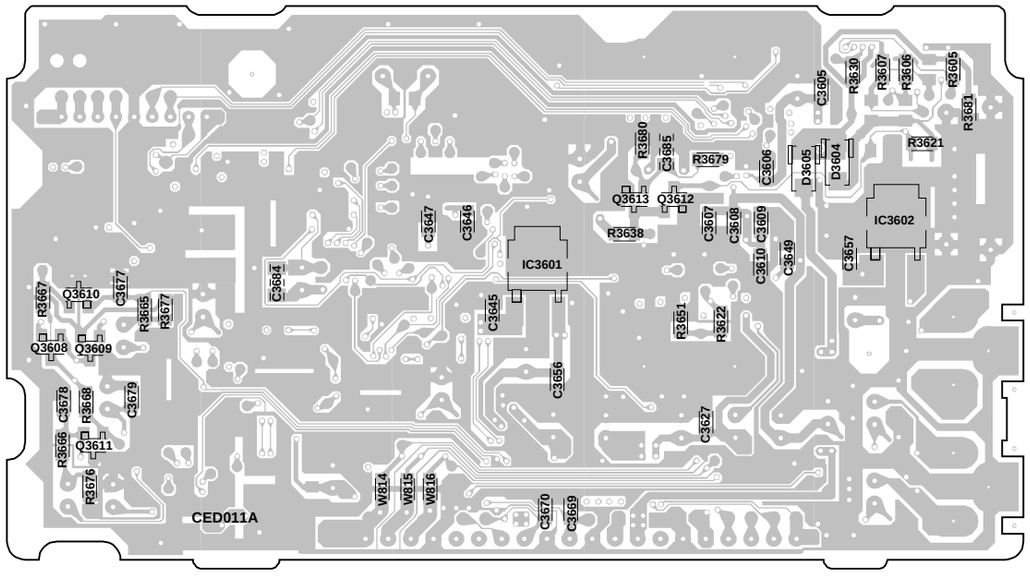


PRINTED CIRCUIT BOARDS

HD-MI (TOP SIDE)

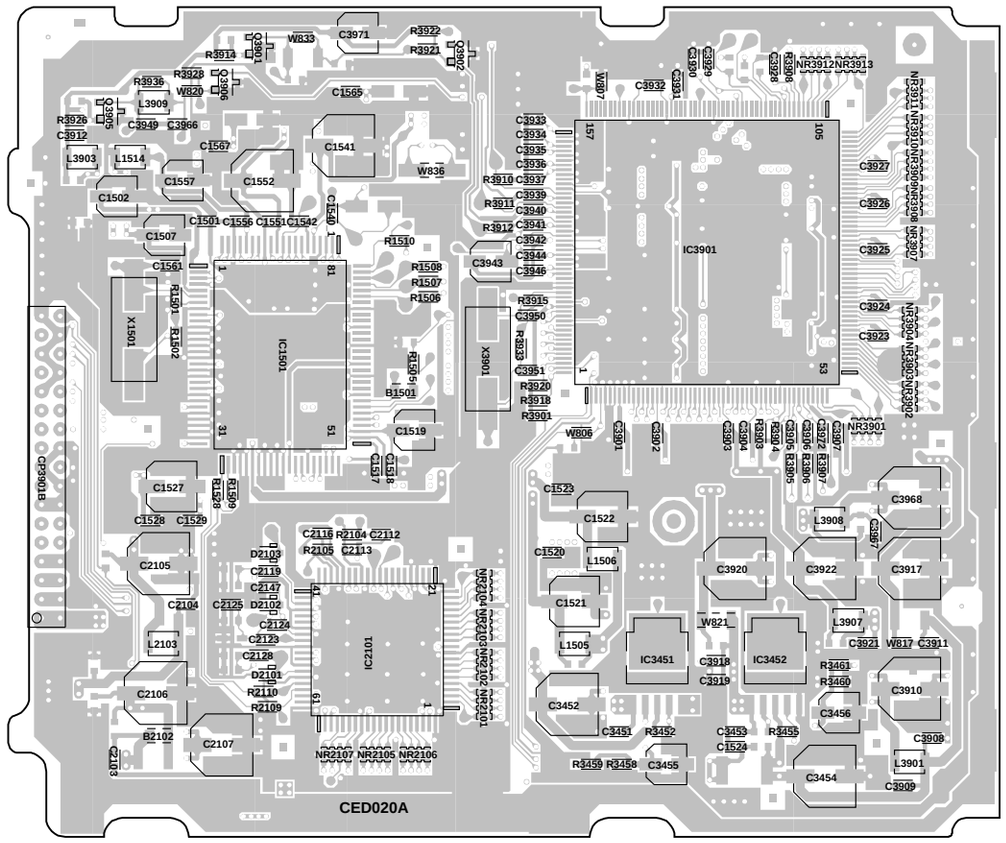


HD-MI (BOTTOM SIDE)

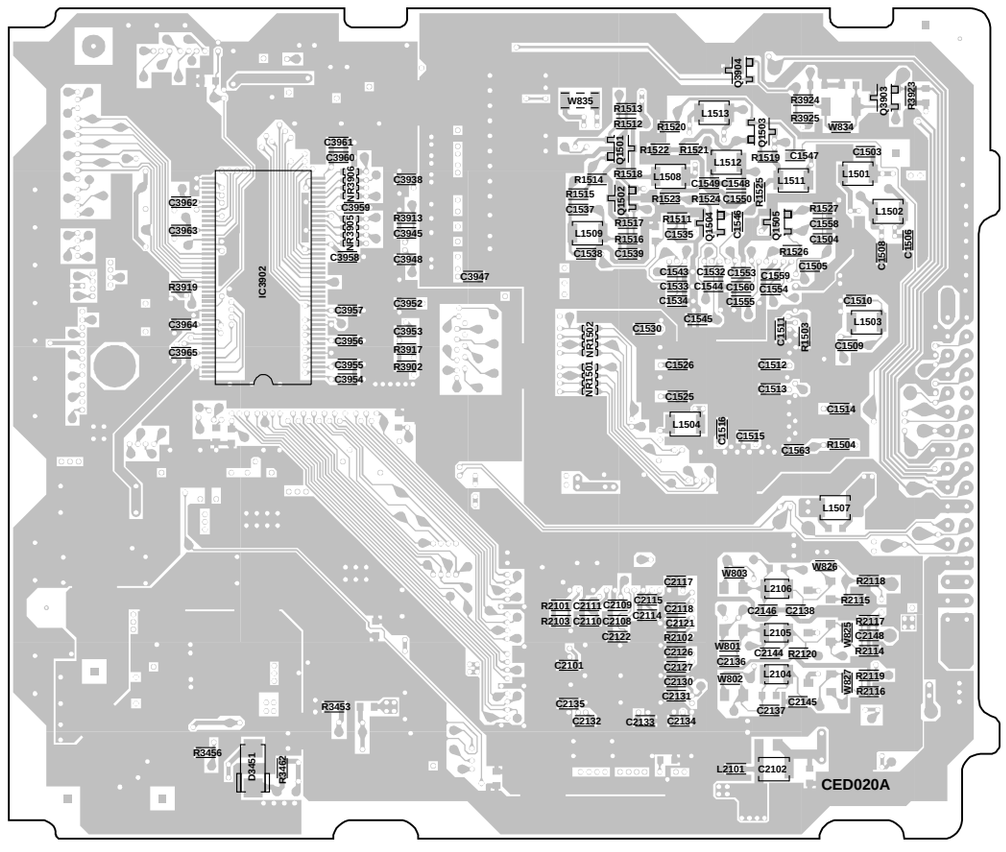


PRINTED CIRCUIT BOARDS

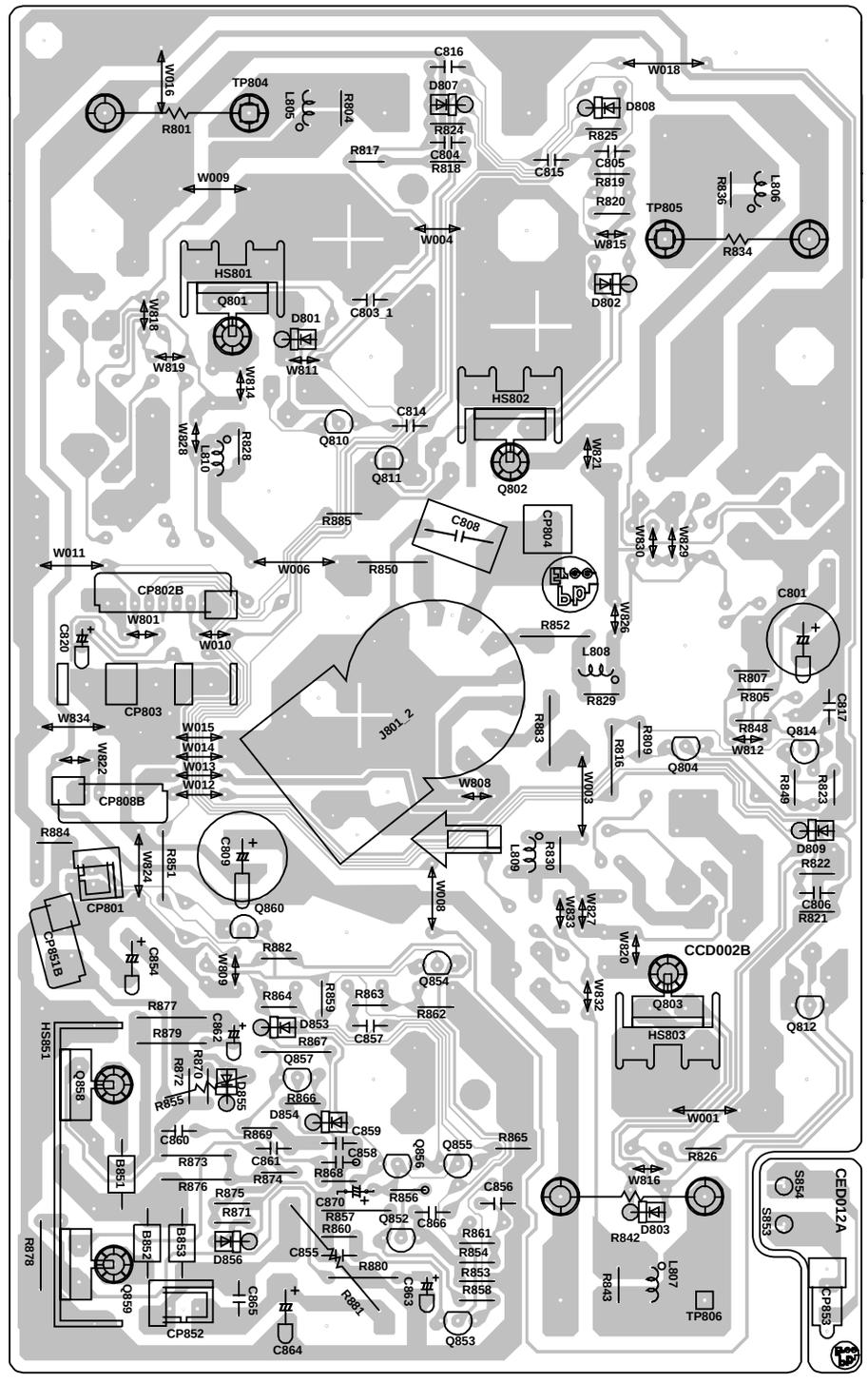
SCALER (TOP SIDE)



SCALER (BOTTOM SIDE)



CRT/VM COIL
SOLDER SIDE



CHROMA/PROGRESSIVE/PIN SCHEMATIC DIAGRAM (MAIN PCB)

FROM/TO OPERATION

PROTECT
SCL1
SDA1
Y_OUT
PB_OUT
PR_OUT

FROM TV POWER

GND
P.CON+5V
UNREG+12V
P.CON+9V
GND2

FROM/TO DEFLECTION

ACL
ACL_PIN
H_DRV+B
V_F/B
EW_F/B
CENTER_DAC
EW_OUT
AFC
H.OUT

FROM/TO CRT/SVM

CP602(CP802B) B2013H02-7P

CUT OFF(9V)	7
GND(SIGNAL)	6
R.OUT	5
G.OUT	4
B.OUT	3
CLAMP_OFF	2
P.CON+12V	1

FROM/TO CRT/SVM

CD603 (CP801) CU225201

VM COIL	1
GND	2

FROM/TO OPERATION

OSD_BLK1
OSD_BLK2
OSD_R
OSD_G
OSD_B
H_SYNC
V_SYNC

TO DEFLECTION

ABL_SW1

PCB070
CME018

PROGRESSIVE IC IC603 TA1360ANG

1	DARK AREA DET FILTER	0.5
2	BPH FILTER	5.4
3	Y1 IN	1.0
4	Cb1/Pb1 IN	0.7
5	Cr1/Pr1 IN	0.7
6	Y/C GND	0
7	LIGHT AREA DET FILTER	2.0
8	Y2 IN	1.0
9	Cb2/Pb2 IN	0.7
10	Cr2/Pr2 IN	0.7
11	COLOR LIMITER	8.2
12	VSM FILTER	7.7
13	H-FREQ SW1	8.0
14	SYNC IN	1.2
15	VD IN	5.1 NC
16	HD IN	5.1 NC
17	SCP IN	0
18	CP OUT	5.0 NC
19	DEF/DAC Vcc	9.0
20	AFC FILTER	6.5
21	H VCO	5.3
22	H-FREQ SW2	3.2
23	H CURVE CORRECTION	2.8
24	FBP IN	6.4
25	DEF/DAC GND	0
26	H-OUT	2.0
27	VP OUT	5.0
28	DAC1(SYNC OUT)	5.0
55	APL FILTER	5.6
54	Y/C Vcc	9.0
53	VSM OUT	4.3
52	ABCL IN	6.4
51	Ym/P-MUTE/BLK	1.6
50	Ys1(ANALOG OSD)	3.0
49	Ys2(ANALOG OSD)	3.0
48	Ys3(ANALOG RGB)	0
47	R S/H	4.5
46	G S/H	4.5
45	B S/H	4.5
44	Ik IN	9.0
43	RGB GND	0
42	R OUT	6.0
41	G OUT	6.0
40	B OUT	6.0
39	RGB Vcc	9.0
38	ANALOG OSD R IN	0.7
37	ANALOG OSD G IN	0.7
36	ANALOG OSD B IN	0.7
35	DAC2 (ACB PLUSE)	0.5
34	ANALOG R IN	4.0
33	ANALOG G IN	4.0
32	ANALOG B IN	4.0
31	I2L GND	0
30	SDA	5.0
29	SCL	5.0
56	I2L Vdd	2.0

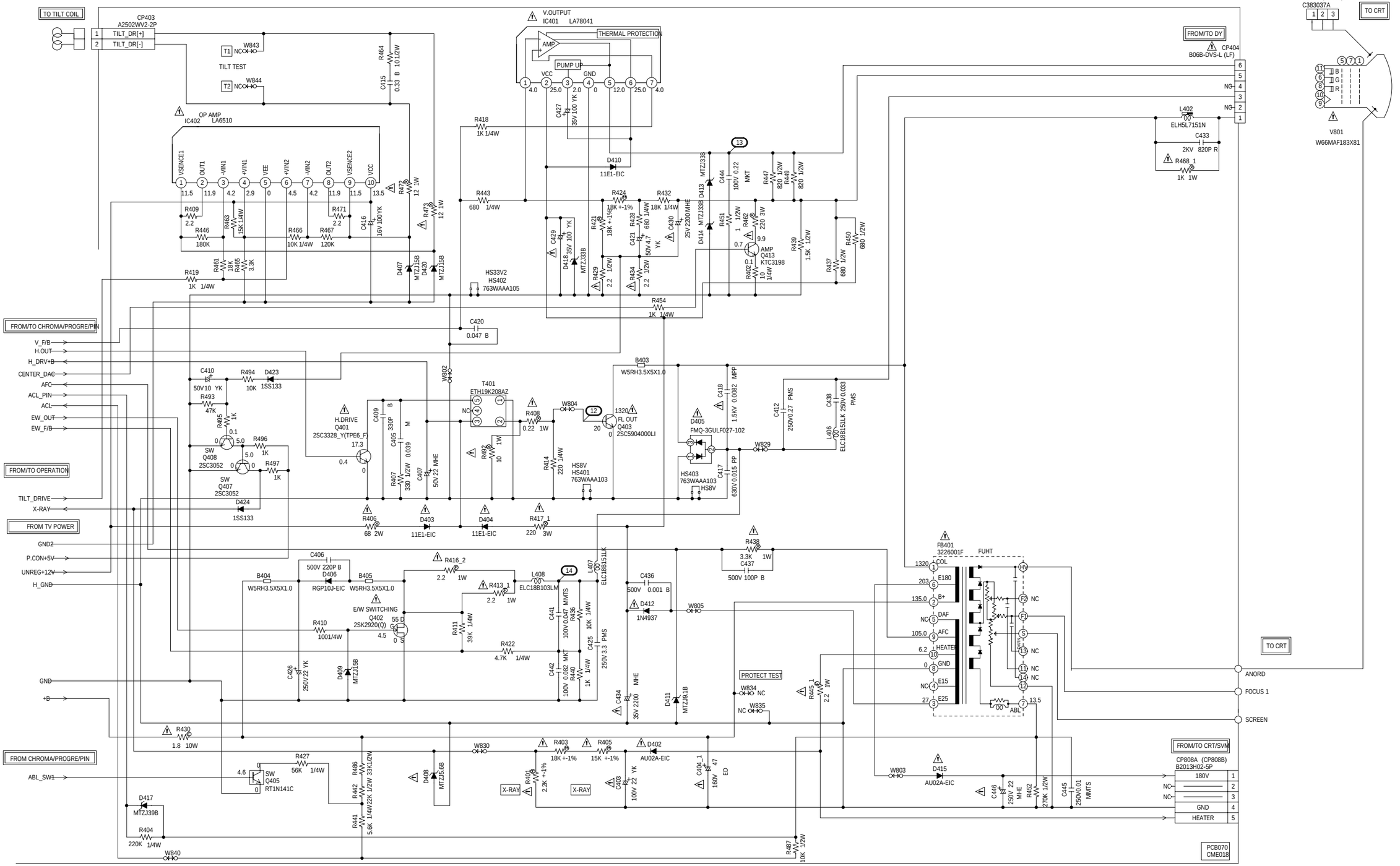
PIN CUSHION IC802 TA1317ANG

1	Vref	5.0
2	CENTER DAC	0.9
3	EHT IN	3.0
4	V DRIVE	0.6
5	V-DC REF	5.0
6	V NF	5.0
7	Vcc	9.0
8	EW PWN	2.6
9	ANALOG GND	0
10	EW FD	6.6
11	EW FILTER	2.4
12	FBP IN	6.6
13	SDA	5.0
14	SCL	5.0
15	DIGITAL GND	0
16	H-DF OUT	7.2
17	LVP IN	NC
18	V-DF OUT	NC
19	CENTER OUT	4.8
20	BLK OUT	6.0
21	Vin	5.0
22	TC FILTER	4.0
23	V RAMP FILTER	5.2
24	AGC FILTER	2.0

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.

DEFLECTION SCHEMATIC DIAGRAM (MAIN PCB)



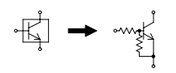
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

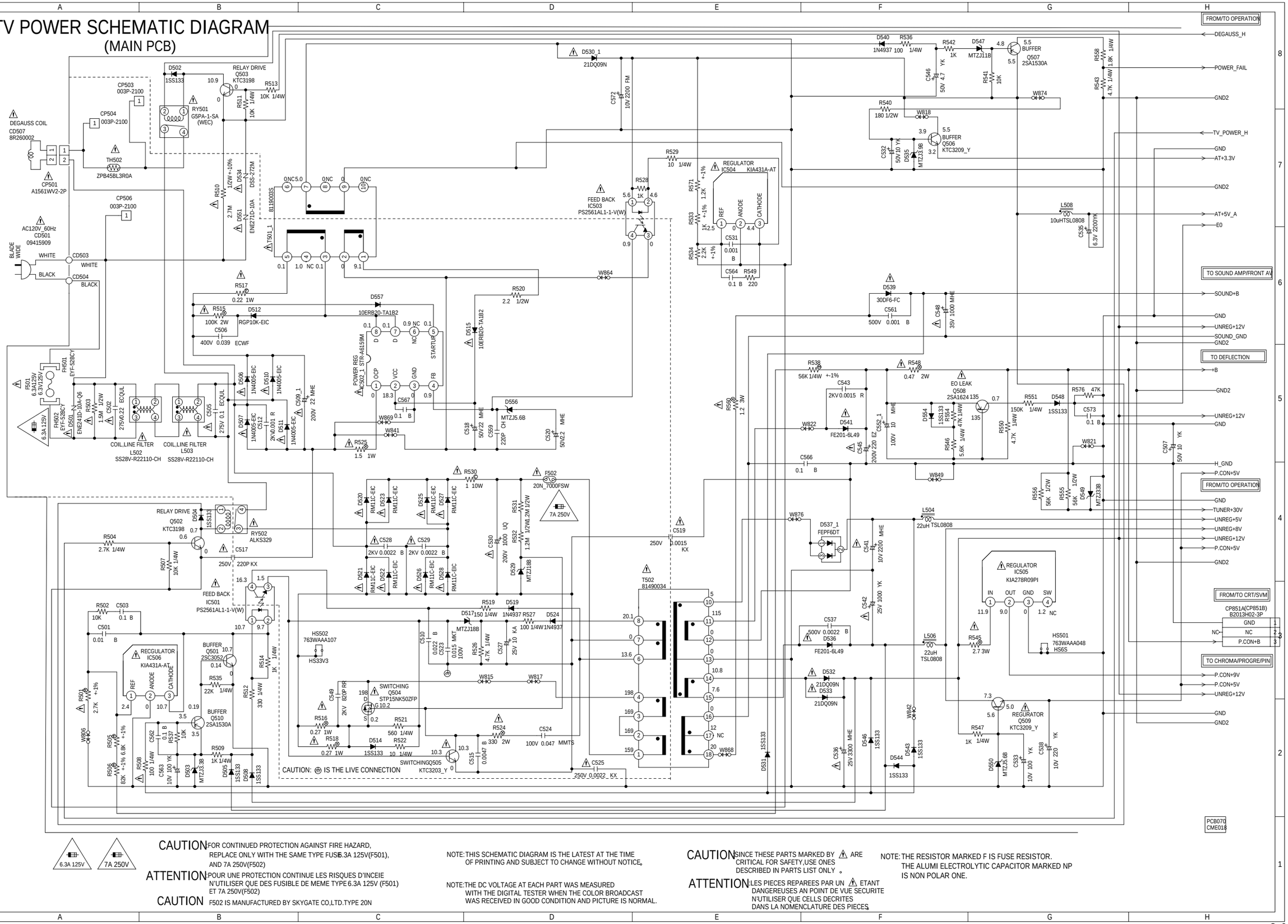
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

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

CAUTION: DIGITAL TRANSISTOR



TV POWER SCHEMATIC DIAGRAM
(MAIN PCB)



6.3A 125V

7A 250V

CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 6.3A 125V(F501), AND 7A 250V(F502)

ATTENTION POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 6.3A 125V (F501) ET 7A 250V(F502)

CAUTION F502 IS MANUFACTURED BY SKYGATE CO,LTD.TYPE 20N

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

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

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

OPERATION SCHEMATIC DIAGRAM

(MAIN PCB)

L505
W5T29X7.5X19

FROM/TO REGULATOR
CD509_1(CP509_1) CU2D2501

E0	13
GND	12
GND	11
AT+5V	10
AT+3.3V	9
UNREG+8V	8
UNREG+12V	7
UNREG+5V	6
TUNER+30V	5
POWER_FAIL	4
STANDBY_L	3
DEGAUSS_H	2
TV_POWER_H	1

FROM/TO TV POWER

TV_POWER_H
STANDBY_L
POWER_FAIL
DEGAUSS_H
UNREG+5V
TUNER+30V
UNREG+12V
UNREG+8V
AT+3.3V
P.CON+5V
GND
AT+5V_A
E0
GND2

W871

FROM/TO DEFLECTION

X-RAY
TILT_DRIVE

FROM/TO SYNC COUNT/CONNECTOR

CD601 (CP601) CU294002

1	Y_OUT
2	GND
3	Pb_OUT
4	GND
5	Pr_OUT
6	GND
7	NC
8	NC
9	NC

D615 MTZJ9.1B
D616 MTZJ9.1B
D617 MTZJ9.1B
C419 22 50V YK

FROM/TO MICOM

CD605(CP605) CU273302

1	H_SYNC
2	V_SYNC
3	OSD_R
4	OSD_G
5	OSD_B
6	SDA1
7	SCL1

FROM/TO CHROMA/PROGRE/PIN

SCL1
SDA1
OSD_B
OSD_G
OSD_R
V_SYNC
H_SYNC

PR_OUT
PB_OUT
Y_OUT
PROTECT

OSD_BLK1
OSD_BLK2

FROM/TO MICOM

CD101 (CP101) C32B3303

11	OSD_BLK2
10	OSD_BLK1
9	X-RAY
8	NC
7	PROTECT
6	TILT_DRIVE
5	GND
4	AUDIO_MUTE
3	KEY_B
2	KEY_A
1	REMOCON

CP510 003P-2100

1	GND

C569_1 100P CH

W832 W875

R1098 1K
R1097 1K
MUTE_SW Q1098 2SC3052
R1099 1K
MUTE_SW Q1099 2SC3052
W808

TO SOUND AMP/FRONT AV
AUDIO_MUTE

R2001 560
R2002 2.7K
R2004 560
CH UP SW2001 EVQ21505R
VOL UP SW2002 EVQ21505R
CH DOWN SW2003 EVQ21505R
VOL DOWN SW2004 EVQ21505R
POWER SW2005 EVQ21505R

OS2001 RPM7138-WH5
B+ 5.0
GND 0
Vout 4.9

R2003 47 1/4W
C2001 25V 470 KA
D2001 1LEQS04N

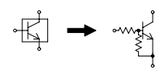
LED SW
Q2001 RT1N241C1-T1
4.9
0.2
POWER ON
D2009 SLR-342VCT32 RED LED
R2005 1/4W 270

PCB070
CME018

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

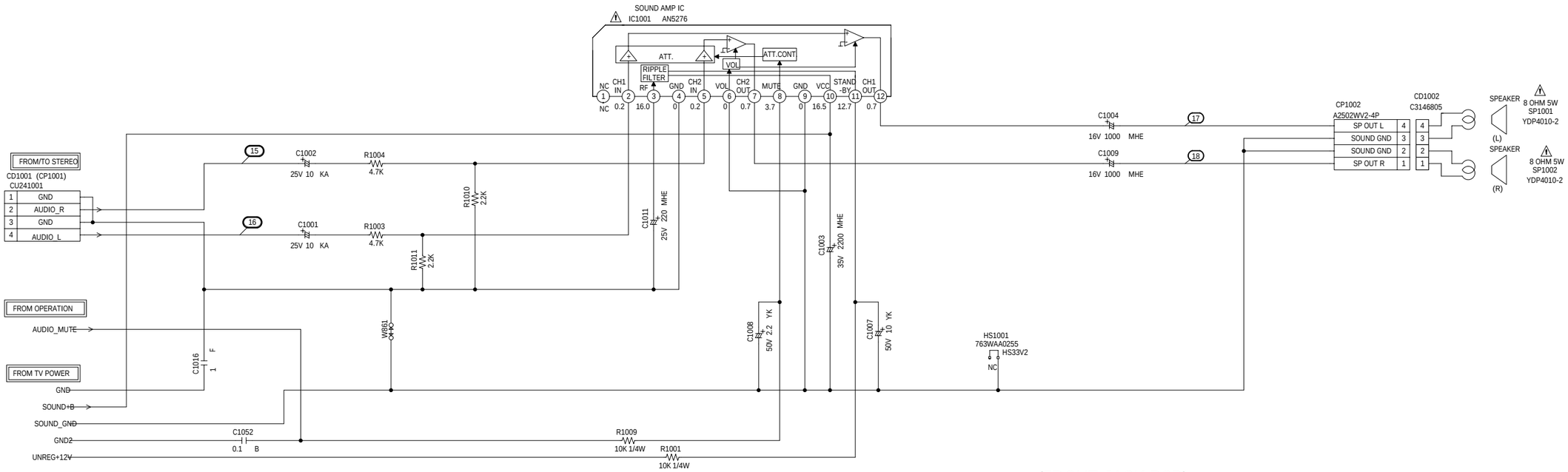
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR

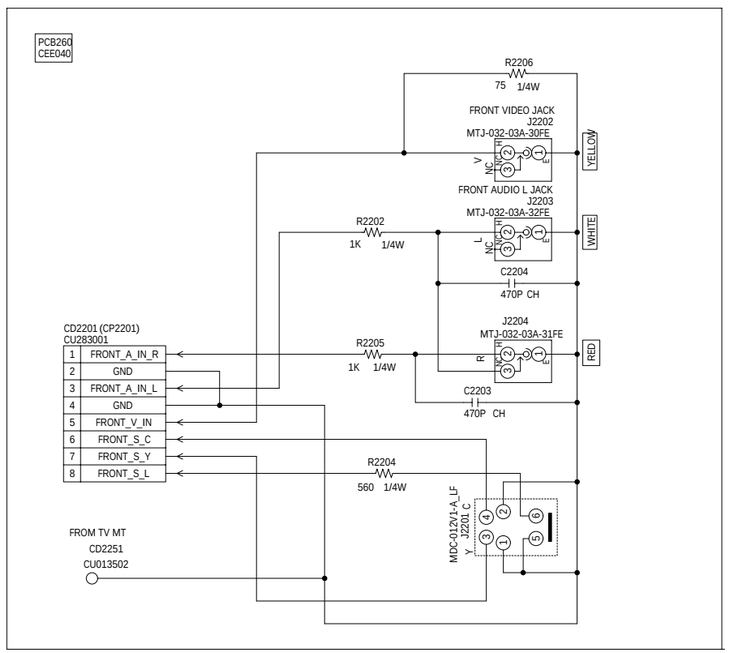


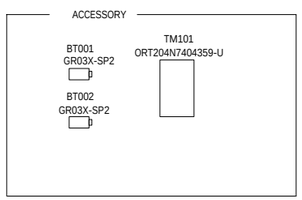
SOUND AMP/FRONT AV SCHEMATIC DIAGRAM

(MAIN PCB)



(FRONT JACK PCB)





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

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

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CRT/SVM SCHEMATIC DIAGRAM (CRT PCB)

FROM/TO CHROMA/PROGRESSIVE/PIN

CP802B (CP602) 52147-0710

7	CUT_OFF(9V)
6	GND(SIGNAL)
5	R.OUT
4	G.OUT
3	B.OUT
2	CLAMP_OFF
1	P.CON+12V

(CP602)

PCB110 CCD002

FROM/TO TV POWER

CP851B (CP851A) 52147-0310

GND	1
NC	2
P.CON+B	3

FROM/TO VM COIL

CP852 (CP853) A2001WV2-3P

VM1	1
NC	2
VM2	3

FROM/TO DEFLECTION

CP809B (CP808A) 52147-0510

5	HEATER
4	GND
3	NC
2	NC
1	180V

CP803(CD603) A2361WV2-3P: GND, GND, GND

FOCUS 2

FOCUS 1

CP804 005P-2100: SCREEN

FROM/TO CHROMA/PROGRESSIVE

CP801(CD603) A2001WV2-2P: GND, VM COIL

(VM COIL PCB)

PCBD80 CED012

FROM/TO CRT/SVM

CP853(CP852) B2013H02-3P

CD852_1 CU232001

FROM/TO VM COIL

S853

S854

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.

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

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

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

MICON1 SCHEMATIC DIAGRAM
(AV PCB)

EEP ROM IC 256K
IC199 AT24C256N-10SU-2.7

MICON
IC101
OEC7118A

SYSTEM RESET
IC103 PST3229NR

SYSTEM RESET
IC102 PST3229NR

RESET SW
Q104
RT1N140C

BUFFER
Q103
2SA1530A1

SW
Q101
2SC3052-T1

SW
Q102
2SC3052-T1

X103
100WT01611
16MHz

79.S_DET_2
80.S_DET_3
81.TV POWER
82.P.CON DET.

52.EXT MUTE
51.AUDIO MUTE
50.(FLASH ADD.15)
49.(FLASH ADD.14)
48.(FLASH RESET)

99.VCC(5V)
100.CVIN_MAIN
1.V.HOLD_MAIN
2.HLF_MAIN

32.OSD R
31.SDA2
30.HDMI Tx
29.HDMI Rx

CAUTION: DIGITAL TRANSISTOR

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EEP_DATA
CP103 A2001WR2-7P

	GND	1
	SCL_EEP	2
	SDA_EEP	3
	IIC_OFF	4
NC	NC	5
	SDA1	6
	SCL1	7

FROM/TO TUNER/AV
- VIDEO_MUTE
- EXT_MUTE
- AFT_MAIN
- S_DET_3
- S_DET_2
- S_DET_1
- AV2
- SDA1
- SCL1

FROM/TO STEREO
- STEREO_RESET
- SDA1
- SCL1

FROM/TO SYNC COUNT/CONNECTOR
- CVIN_MAIN
- AV4
- AV3
- SDA2
- SCL2
- C_SYNC
- SDA1
- SCL1
- 3D_Y/C_RESET
- SCALER_RESET

FROM/TO OPERATION

CP605 (CD605)
A2001WV2-7P

	H_SYNC	1
	V_SYNC	2
	OSD_R	3
	OSD_G	4
	OSD_B	5
	SDA1	6
	SCL1	7

FROM/TO OPERATION

CP101 (CD101)
A2001WV2-11P

	OSD_BLK2	11
	OSD_BLK1	10
	X-RAY	9
	H_CONTROL	8
	PROTECT	7
	TILT_DRIVE	6
	GND	5
	AUDIO_MUTE	4
	KEY_B	3
	KEY_A	2
	REMOCON	1

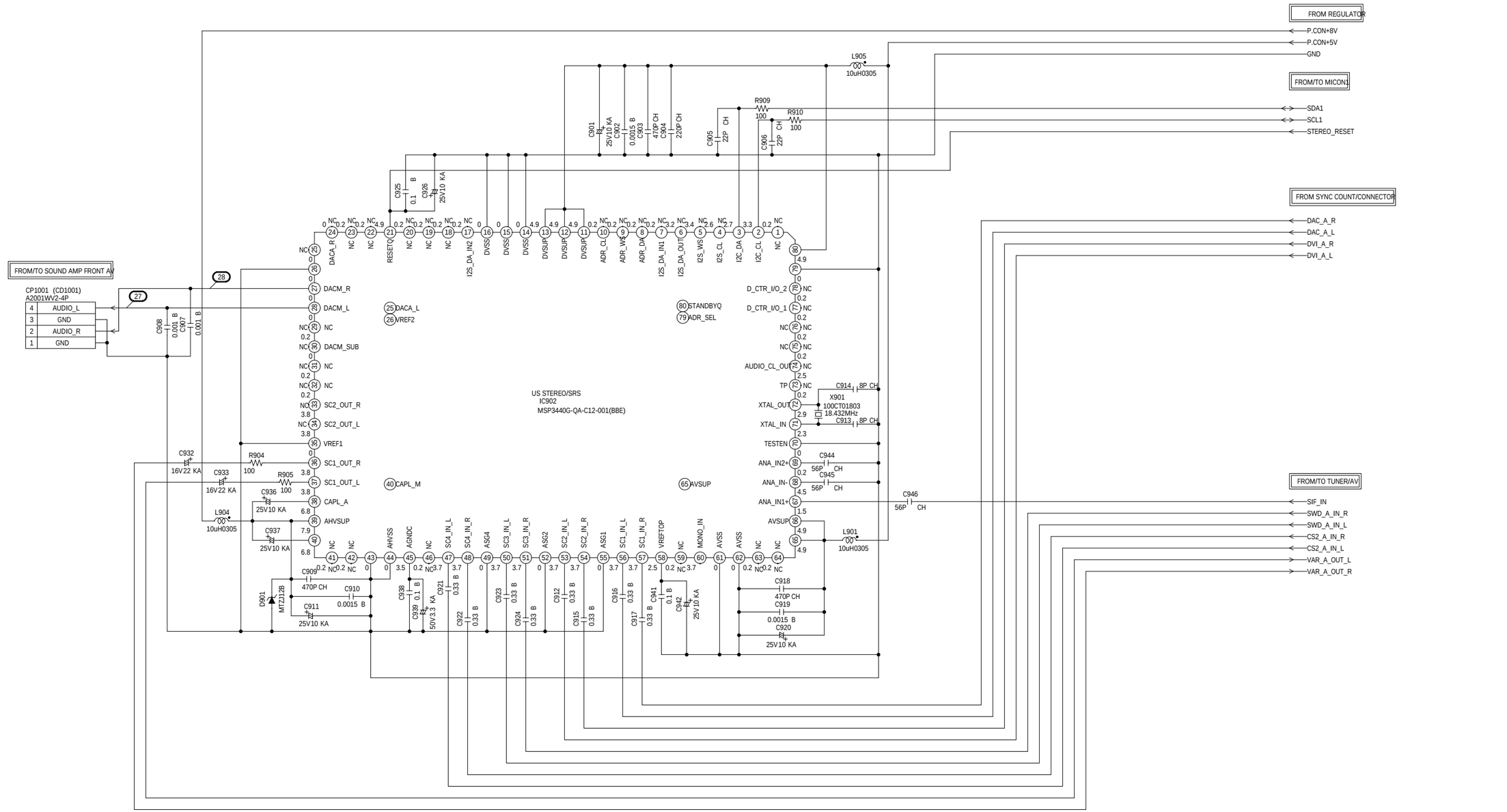
FROM/TO REGULATOR
- GND
- AT+5V
- POWER_FAIL
- AT+3.3V
- STANDBY_L
- TV_POWER_H
- DEGAUSS_H
- P.CON+3.3V_GHYPER
- P.CON+5V

PCBD20
CED019

- E0

STEREO SCHEMATIC DIAGRAM

(AV PCB)

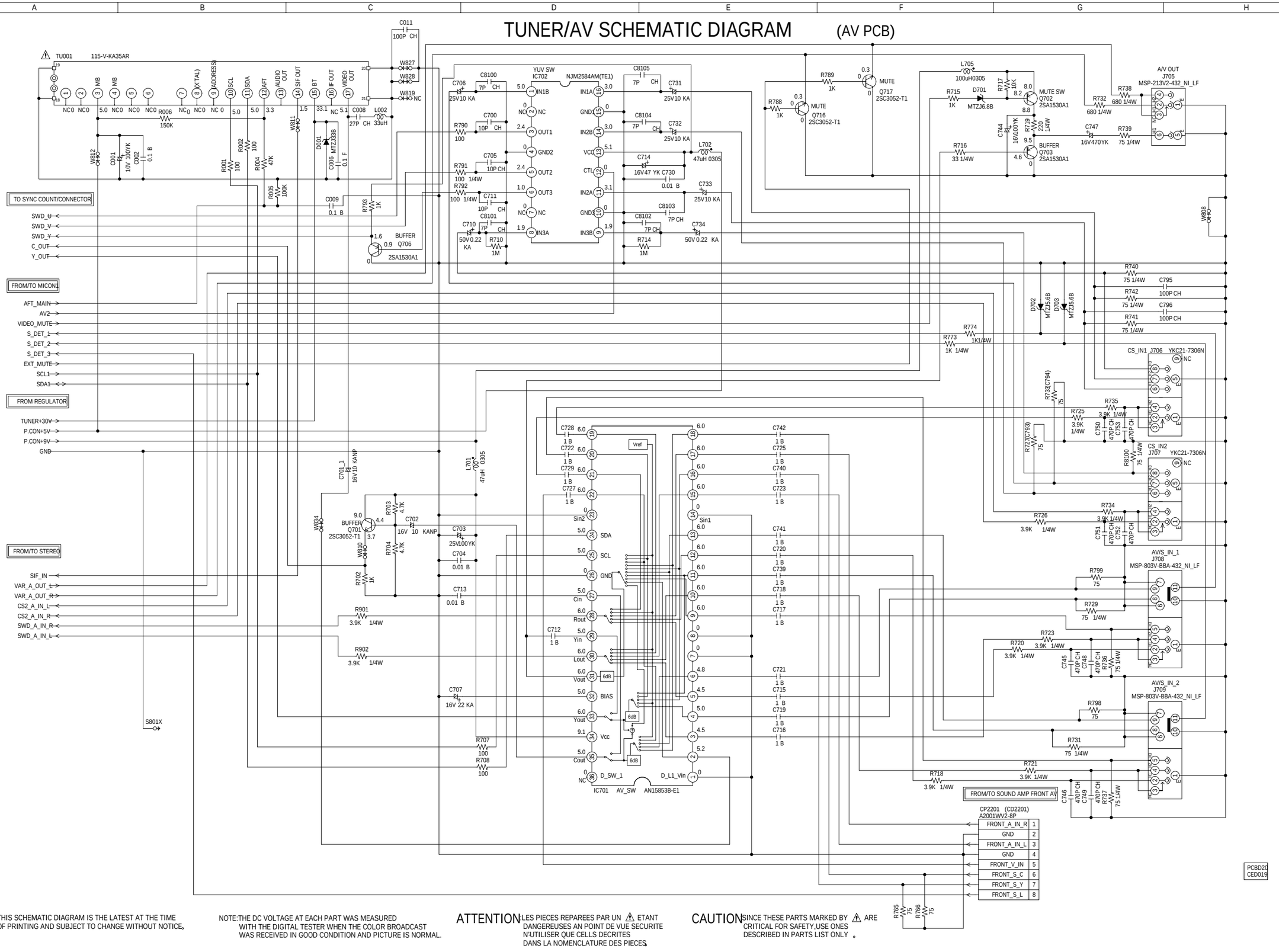


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

PCBD20
CED019

TUNER/AV SCHEMATIC DIAGRAM (AV PCB)



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REGULATOR SCHEMATIC DIAGRAM

(AV PCB)

FROM/TO OPERATION

CP509_1 (CD509_1)
A2001WV2-13P

13	E0
12	GND
11	GND
10	AT+5V
9	AT+3.3V
8	UNREG+8V
7	UNREG+12V
6	UNREG+5V
5	TUNER+30V
4	POWER_FAIL
3	STANCBY_L
2	DEGAUSS_H
1	TV_POWER_H

C3409 1 F

D3403 21DQ09N

D3404 21DQ09N

C3404 470 6.3V YK

C3407 470 10V YK

P.CON+5V OUT
IC3401 KIA278R05PI

IN OUT GND SW
1 2 3 4
7.3 5.0 0 3.2

R3405 390

C3414 1 16V 100YK

HS6S
HS3401
763WAA0309

R3406 47K 1/4W

C3417 10 25V KA

R3407 10K 1/4W

C3415 1 6.3V 1000 YK

P.CON+9V OUT
IC3400 KIA78R09API

IN OUT GND SW
1 2 3 4
12.8 9.0 0 3.2

W804

R3414 22K

D3401 11E1-EIC

W807

C3416 25V 10 KA

W805

HS6S
HS3400
763WAA0309

C3402 16V 100YK

P.CON+3.3V OUT
IC3402 KIA278R33PI

IN OUT GND SW
1 2 3 4
4.3 3.3 0 3.2

R3411 0.39 2W

R3401 22K

4.7 4.6 3.6

P.CON+3.3V SW
Q3403
KTB1366

L3402 22uH TSL0808

C3401 10V 100YK

R3404 180 1/4W

0.1 3.2

SW
Q3404
RT1N140C 0

C3410 6.3V 2200YK

C3403 10V 100YK

R3412 0.39 2W

R3409 470

HS6S
HS3402
763WAA0309

R3410 4.7 1/4W

R3415 10K

W806

L3401 22uH TSL0808

C3408 25V 100 YK

C3406 6.3V 3300 YK

TO STEREO
- P.CON+5V
- P.CON+8V
- GND

FROM/TO MICON1
- E0
- AT+5V
- AT+3.3V
- TV_POWER_H
- POWER_FAIL
- STANDBY_L
- DEGAUSS_H
- GND
- P.CON+3.3V_GHYPER
- P.CON+5V

TO TUNER/AV
- P.CON+5V
- P.CON+9V
- TUNER+30V
- GND

TO SYNC COUNT/CONNECTOR
- UNREG+12V
- P.CON+9V
- P.CON+5V
- P.CON+3.3V_GHYPER
- P.CON+3.3V_HDMI
- GND

PCBD20
CED019

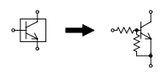
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CAUTION: DIGITAL TRANSISTOR



SYNC COUNT/CONNECTOR SCHEMATIC DIAGRAM

(AV PCB)

FROM/TO MICON1

3D_Y/C_RESET

SCALER_RESET

FROM/TO OPERATION

CP601 (CD601)
A2001WV2-9P

1	Y_OUT
2	GND
3	Pb_OUT
4	GND
5	Pr_OUT
6	GND
7	VD_UP
8	HD_UP
9	HBLK

W820

FROM/TO INTERFACE

CP3604A (CP3602)
IMSA-9130B-20

1	Pb
2	Y
3	Pr
4	GND
5	NC
6	NC
7	+12V
8	DAC_A_L
9	GND
10	DAC_A_R
11	GND
12	+4V
13	+5V
14	AUDIO_L
15	GND
16	AUDIO_R
17	GND
18	HDMI_1/2
19	NC
20	NC

R706 100, R705 100, R780 100, C737 0.1 B, C738 0.1 B

FROM REGULATOR

P.CON+3.3V_HDMI
P.CON+3.3V_GHYPER
P.CON+9V
P.CON+5V
GND
UNREG+12V

FROM STEREO

DVI_A_R
DVI_A_L
DAC_A_R
DAC_A_L

FROM/TO MICON1

HDMI_1/2
CVIN_MAIN
AV3
AV4
SDA1
SCL1
SDA2
SCL2
C_SYNC

FROM TUNER/AV

SWD_U
SWD_V
SWD_Y
Y_OUT
C_OUT

YUV SW
IC706 NJM2584AM(TE1)

C756 25V10 KA, C798 10P CH, C757 25V10 KA, C758 0.01 B, L706 47uH 0305, C759 16V47 YK, C754 25V10 KA, C755 25V10 KA, R745 1M, C767 25V10 KA, R754 1M, C768 50V0.22 KA

IC707 Y_SW NJM2533V

C771 50V10 YK, C772 25V10 KA, S801Y, C782 16V 22 KA, C778 0.01 B, C779 16V47YK, L707 47uH0305, R775 15K, R776 22K, R779 470, BUFFER Q710 2SC3052-T1, D704 MTZJ6.8B

L708 47uH 0305, D705 MTZJ11B, C800 16V 47 KANP, C736 0.1 B, C8106 0.1 B

R758 6.8K, C773 10V22 KANP, AMP Q704 2SC3052-T1, R763 10, R759 15K, C777 33P CH, R785 470, C789 0.01 B, C790 25V100YK

R781 100

R795 10 1/4W

L712 100uH0305, C761 0.01 B, C763 25V100 YK

BUFFER Q705 2SC3052-T1, R764 10K, R760 1K, R757 1K, C785 0.1 B, C774 50V0.1, R755 KA, X701 CSBLA503KECZF30-B0, C769 0.01 B, R756 6.8K, C770 50V1 KA, R750 100, R749 100

VD_OUT SCL SDA ADDRESS GND HVCO AFC_FILTER MONI_OUT HDMI_HP D_SYNC2_IN HDMI_VD Y2_IN SYNC_OUT Y1_IN VCC1(9V) SYNCCOUNT IC705 TA1383FG

C1_IN HD_OUT DIGI_GND C2_IN APC_FILTER 3.58XTAL Cr_OUT Cb_OUT Y_OUT VCC2(5V) CW_OUT GND2 Cr_IN Cb_IN D_SYNC1_IN

L703 47uH 0305, R748 4.7K 1/4W, R751 4.7K, R752 33K, C765 50V0.22 KA, C764 0.0022 B, C766 X702 10OCT3R536 12P CH 3.579545MHz

C775 0.01 B, C776 0.1 B, C786 10V100YK, C787 0.1 B, C788 50V 3.3 KA, R782 100, R784 1K, R772 1K 1/4W, C799 330P B, R783 100

R769 10K, C781 16V10 KANP, AMP Q709 2SC3052-T1, C791 0.01 B, C792 25V100YK, R778 10, R770 12K, R786 470

R767 10K, C780 16V10 KANP, AMP Q708 2SC3052-T1, R777 10, R768 12K, R787 470

C8107 0.001 B, W826, W824 NC

PCBD20
CED019

FROM/TO IN/OUT/REGULATOR

CP3901A(CP3901B)
79107-7016

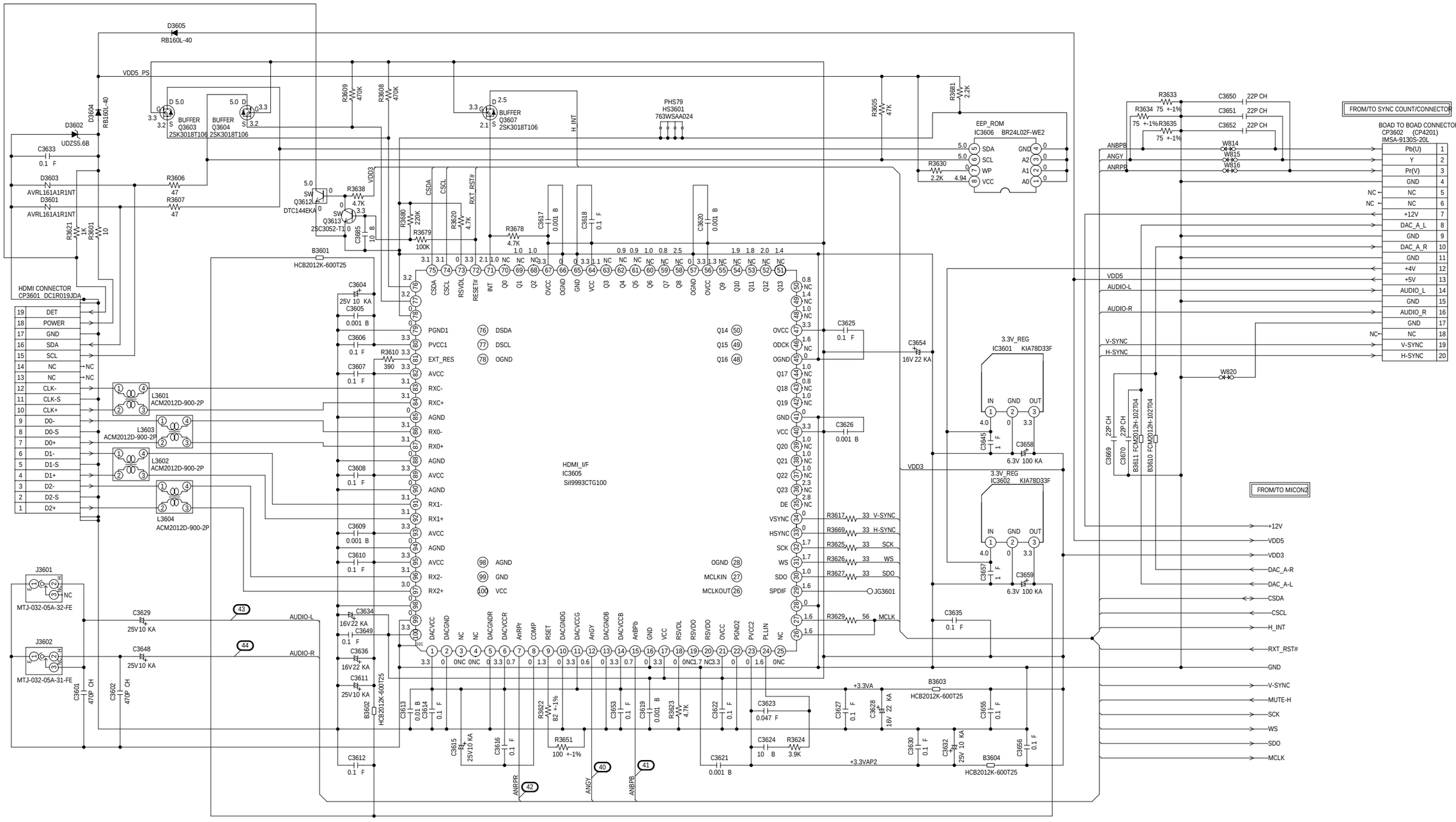
1	P.CON+5V
2	P.CON+5V
3	GND
4	GND
5	P.CON+3.3V
6	P.CON+3.3V
7	GND
8	GND
9	3D_Y/C-RESET
10	SCL
11	SOFT RESET
12	SDA
13	GND
14	GND
15	Y_OUT
16	GND
17	GND
18	Pb_OUT
19	Pr_OUT
20	GND
21	VSYNC
22	V_AV
23	C(CVBS)
24	HSYNC
25	GND
26	HD_UP
27	Y(1)
28	GND
29	GND
30	VD_UP
31	Pb(1)
32	GND
33	GND
34	Pr(1)

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INTERFACE SCHEMATIC DIAGRAM

(HD-MI PCB)

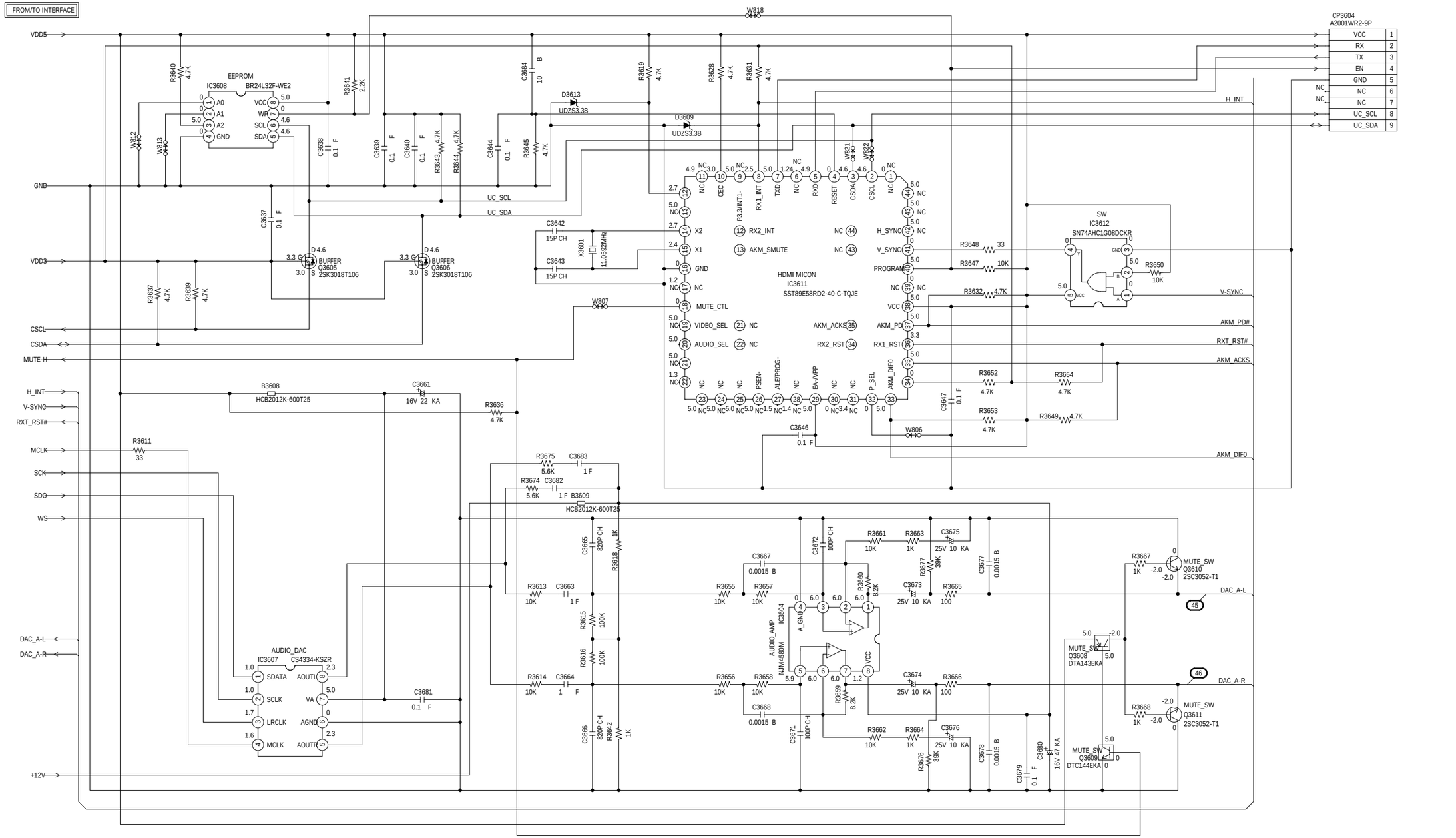


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MICON2 SCHEMATIC DIAGRAM

(HD-MI PCB)

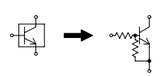


PCBDJ0
CED011

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

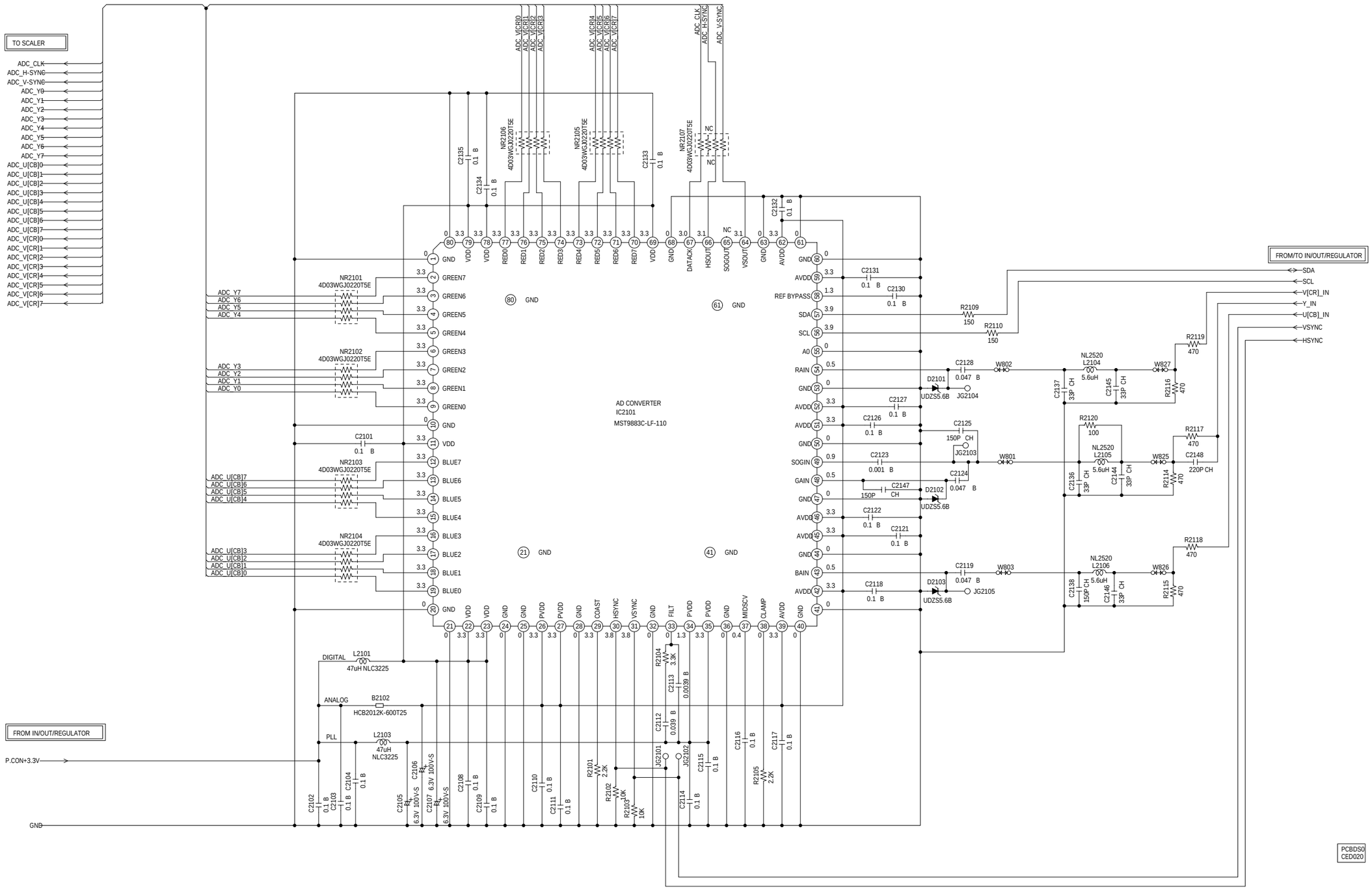
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CAUTION: DIGITAL TRANSISTOR



ANALOG/DIGITAL CONVERTER SCHEMATIC DIAGRAM

(SCALER PCB)

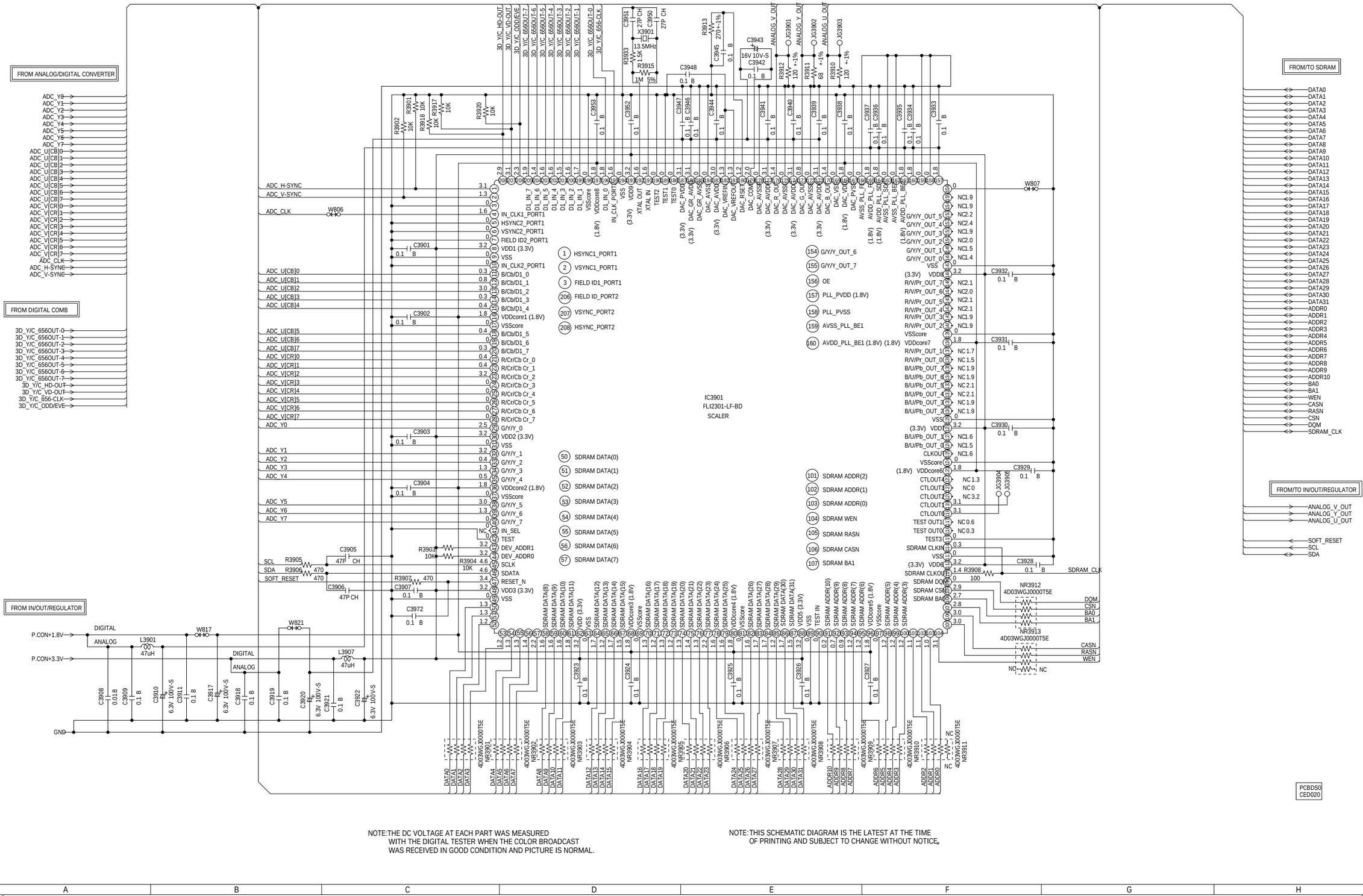


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SCALER SCHEMATIC DIAGRAM

(SCALER PCB)



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DIGITAL COMB SCHEMATIC DIAGRAM

(SCALER PCB)

FROM IN/OUT/REGULATOR

P.CON+5V
P.CON+3.3V
P.CON+1.5V
P.CON+2.5V

TO SCALER

3D_Y/C_ODD/EVE
3D_Y/C_VD-OUT
3D_Y/C_HD-OUT
3D_Y/C_656-CLK
3D_Y/C_656OUT-0
3D_Y/C_656OUT-1
3D_Y/C_656OUT-2
3D_Y/C_656OUT-3
3D_Y/C_656OUT-4
3D_Y/C_656OUT-5
3D_Y/C_656OUT-6
3D_Y/C_656OUT-7

4D03WGJ0101T5E NR1502
4D03WGJ0101T5E NR1501

3D-Y/C_SEPA
IC1501
TC90A92AFG

FROM/TO IN/OUT/REGULATOR

SCL
SDA
3D_Y/C-RESET
C_IN
Y/CVBS_IN

GND

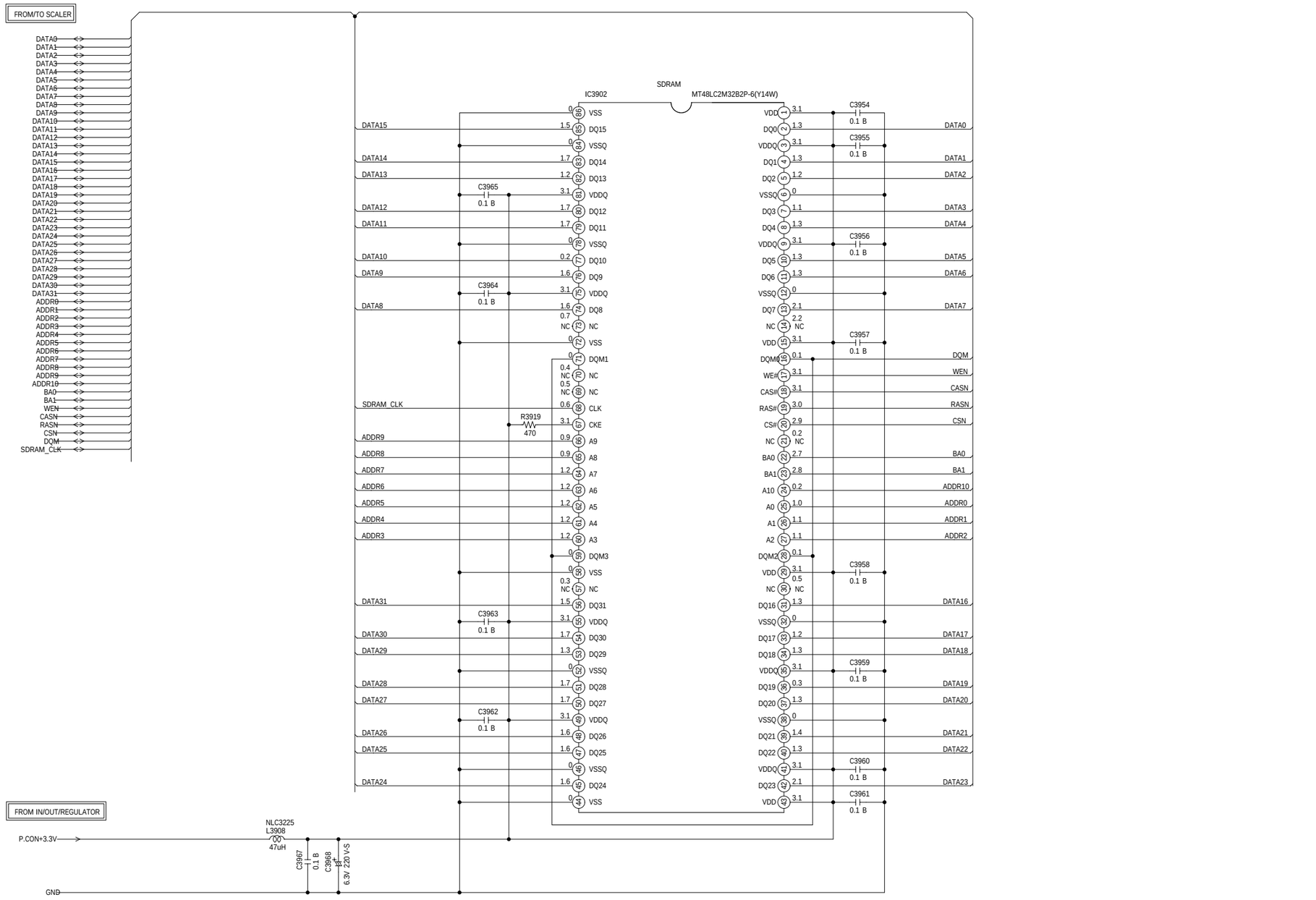
PCBDS0
CED020

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SDRAM SCHEMATIC DIAGRAM

(SCALER PCB)

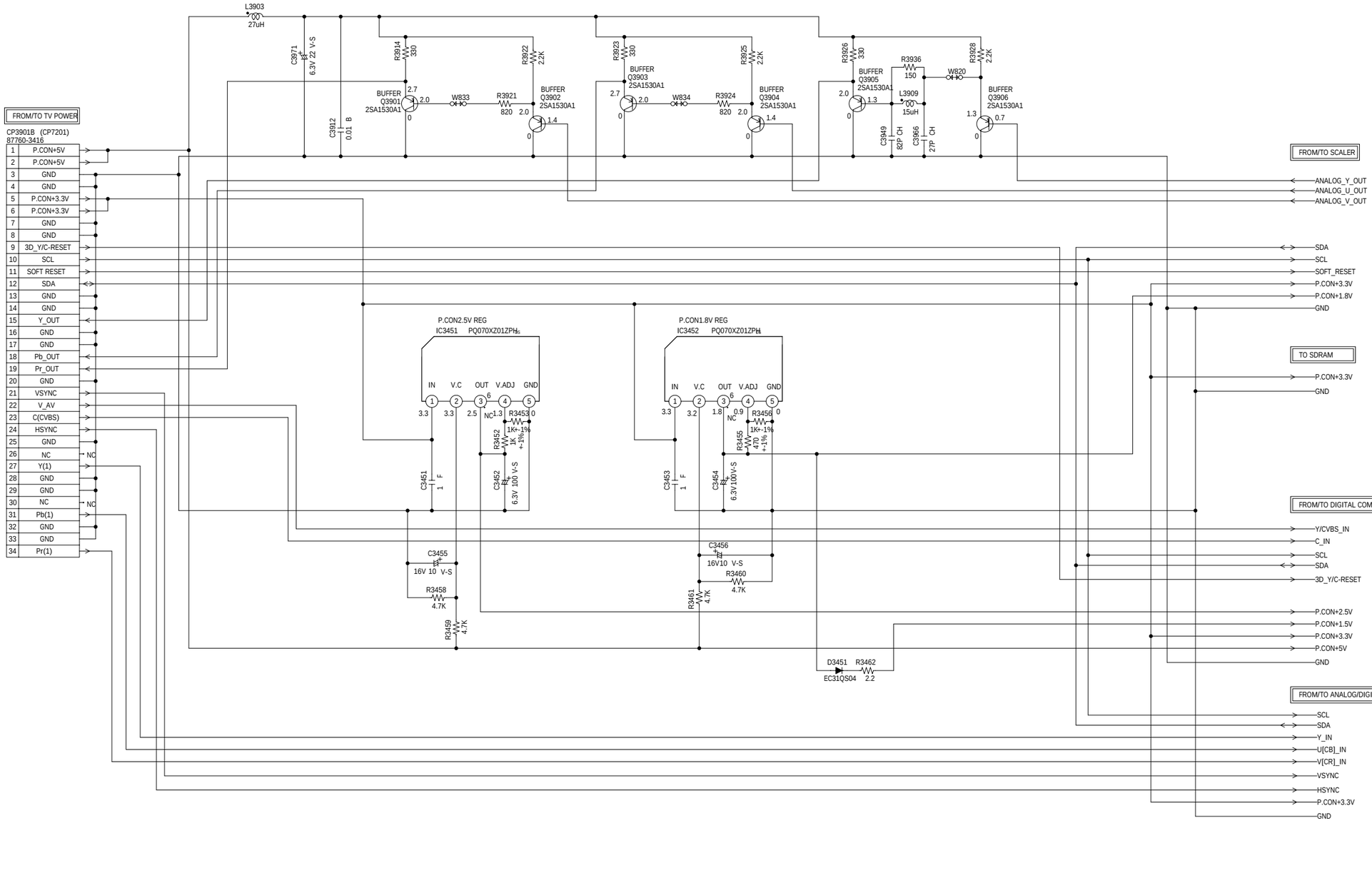


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IN/OUT/REGULATOR SCHEMATIC DIAGRAM

(SCALER PCB)



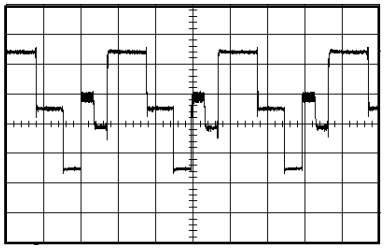
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WAVEFORMS

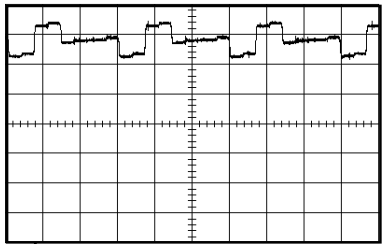
CHROMA/PROGRESSIVE/ PIN

10µs
1.0V



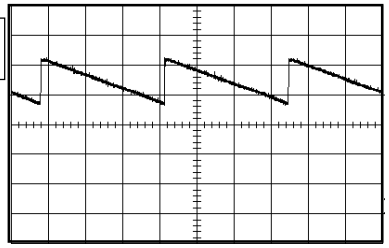
1

10µs
0.5V



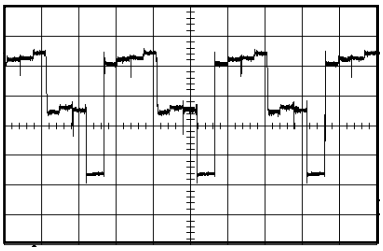
6

5ms
1.0V



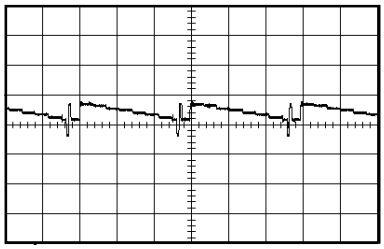
11

10µs
1.0V



2

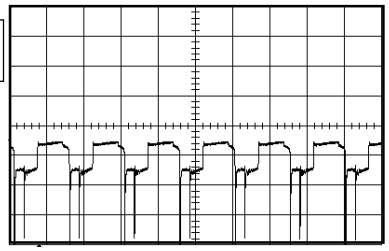
10µs
1.0V



7

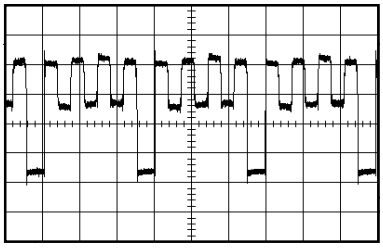
DEFLECTION

20µs
2.0V



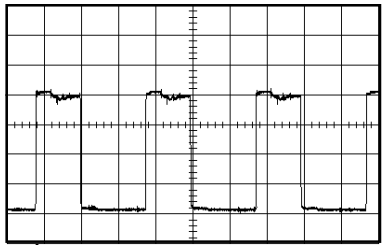
12

10µs
1.0V



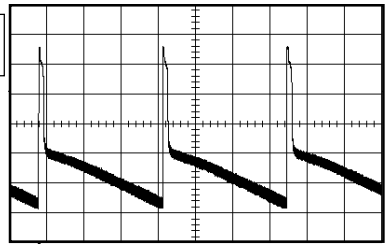
3

10µs
0.5V



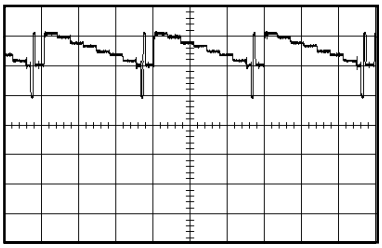
8

5ms
1.0V



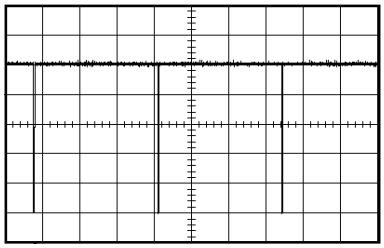
13

10µs
0.5V



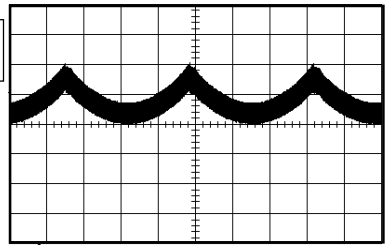
4

5ms
1.0V



9

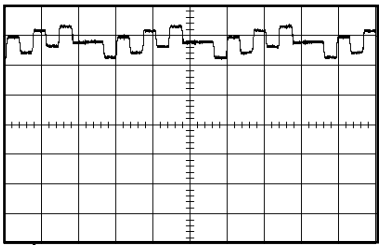
5ms
5.0V



14

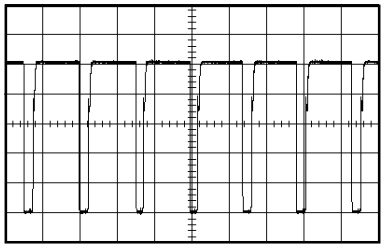
SOUND AMP/ FRONT AV

10µs
0.5V



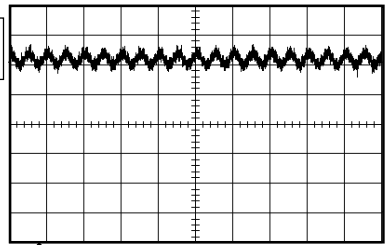
5

20µs
1.0V



10

5ms
200m



15

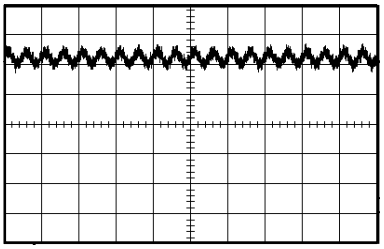
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

SYNC COUNT/ CONNECTOR

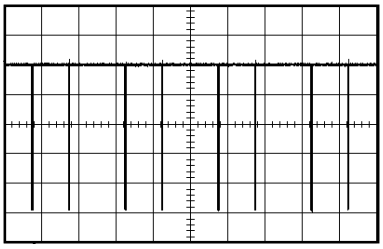
5ms
200m

16



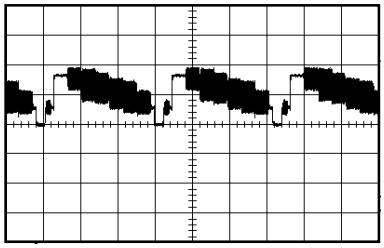
20ms
1.0V

23



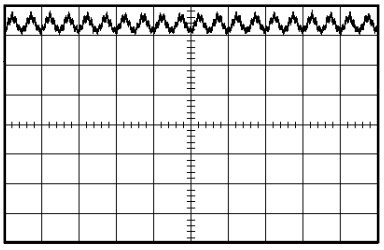
20µs
1.0V

29



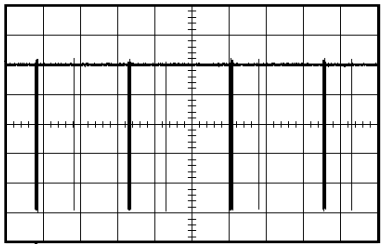
5ms
1.0V

17



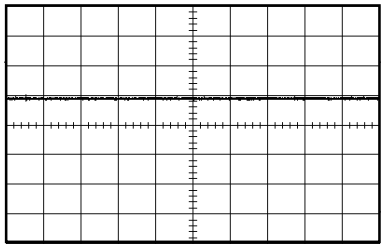
20ms
1.0V

24



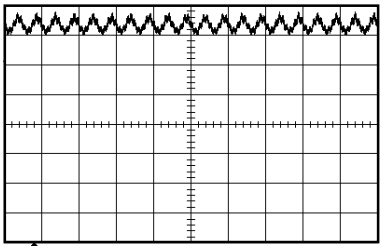
20µs
1.0V

30



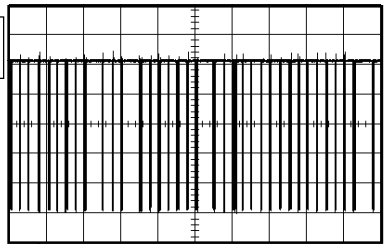
5ms
1.0V

18



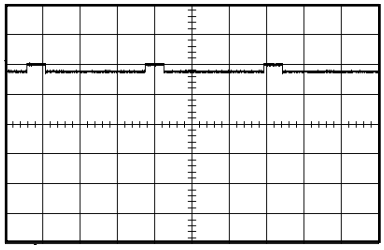
20ms
1.0V

25



20µs
1.0V

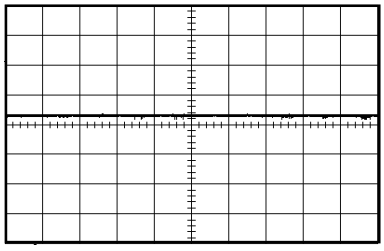
31



MICON1

5ms
1.0V

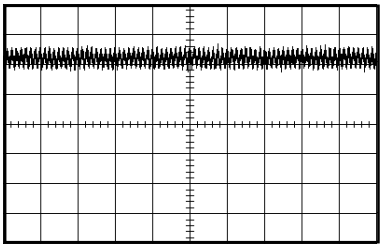
21



STEREO

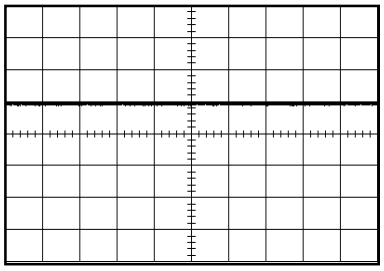
20ms
200mV

27



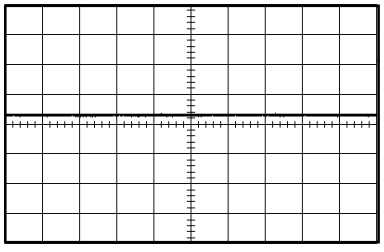
20µs
1.0V

32



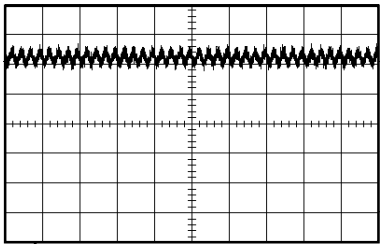
0.5ms
1.0V

22



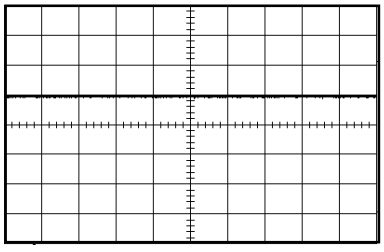
10ms
200mV

28



20µs
1.0V

33

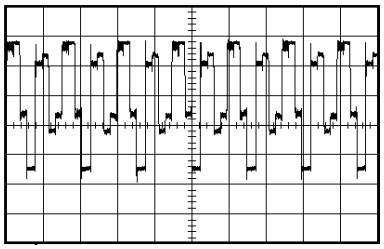


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

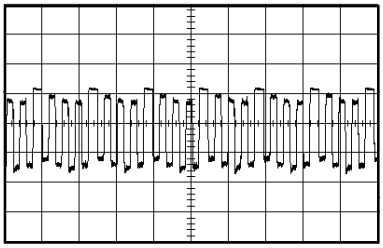
CRT/CVM

20µs
1.0V



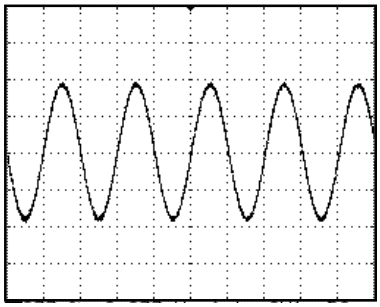
34

20µs
50V



39

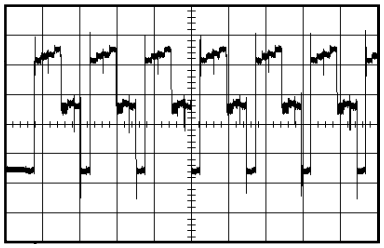
500µs
200mV



44

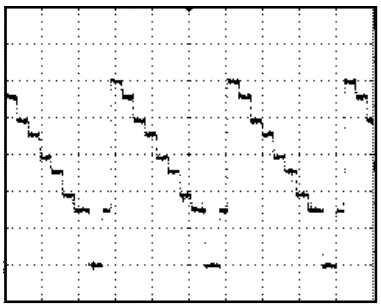
INTERFACE

20µs
1.0V



35

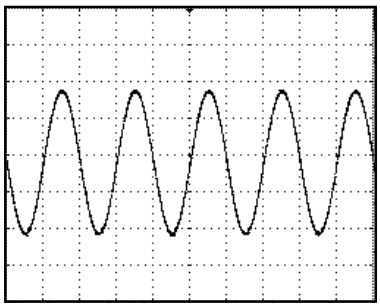
10µs
200mV



40

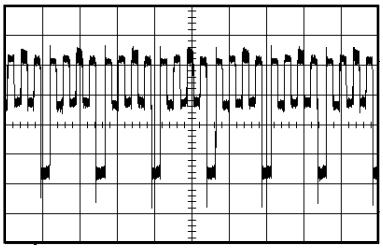
MICON2

500µs
1.0V



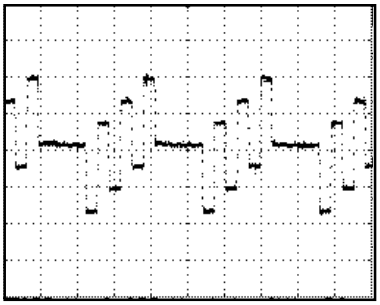
45

20µs
1.0V



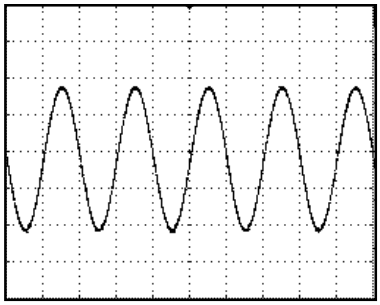
36

10µs
200mV



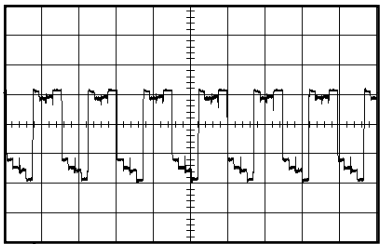
41

500µs
1.0V



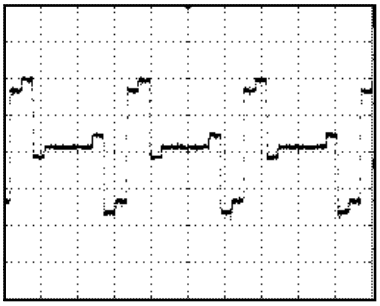
46

20µs
50V



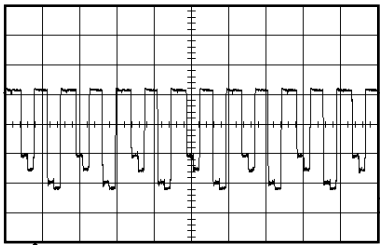
37

10µs
200mV



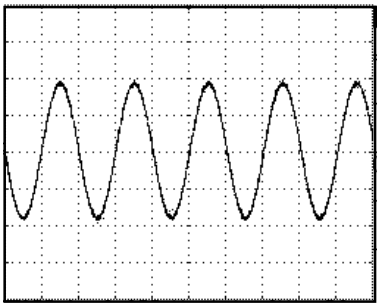
42

20µs
50V



38

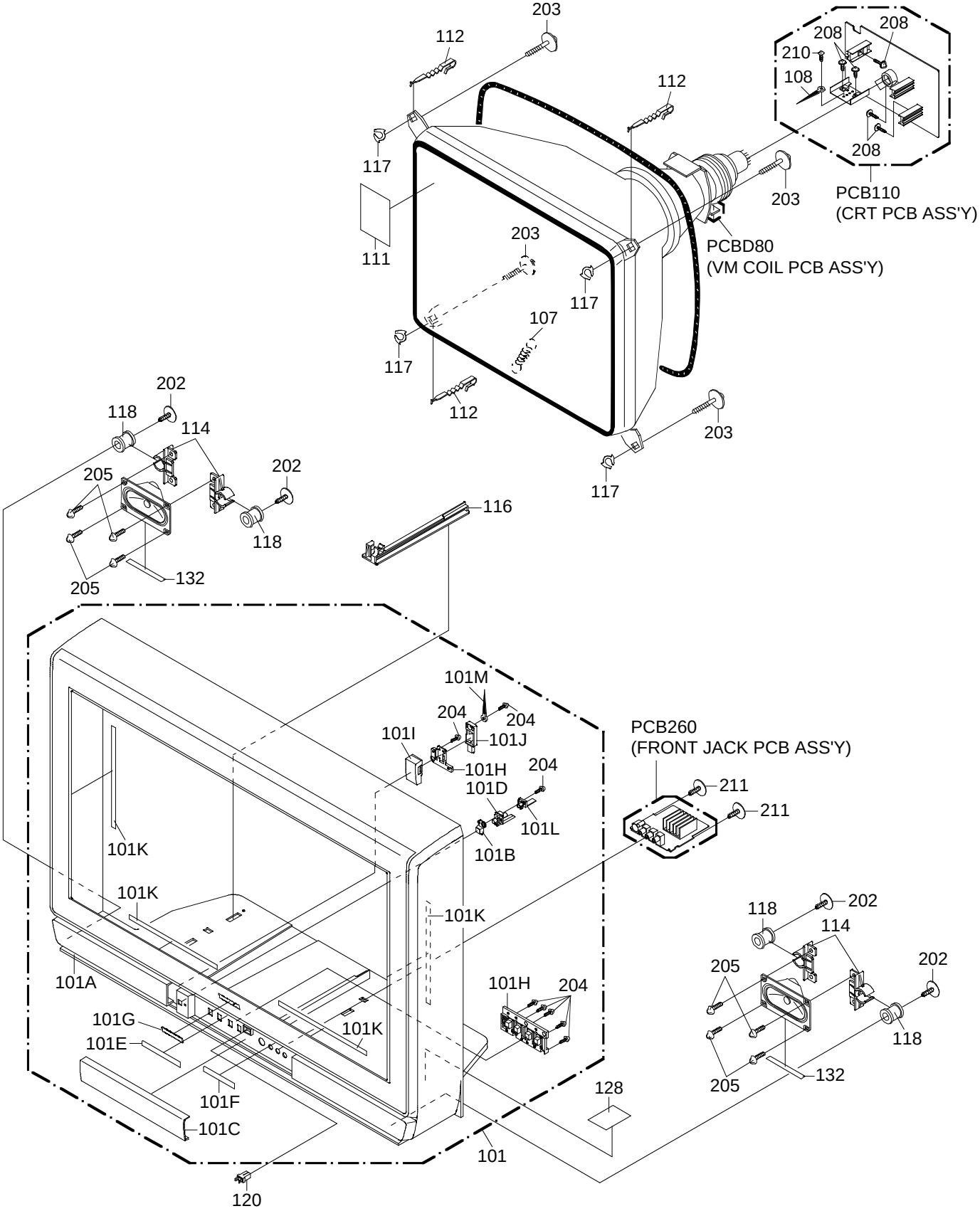
500µs
200mV



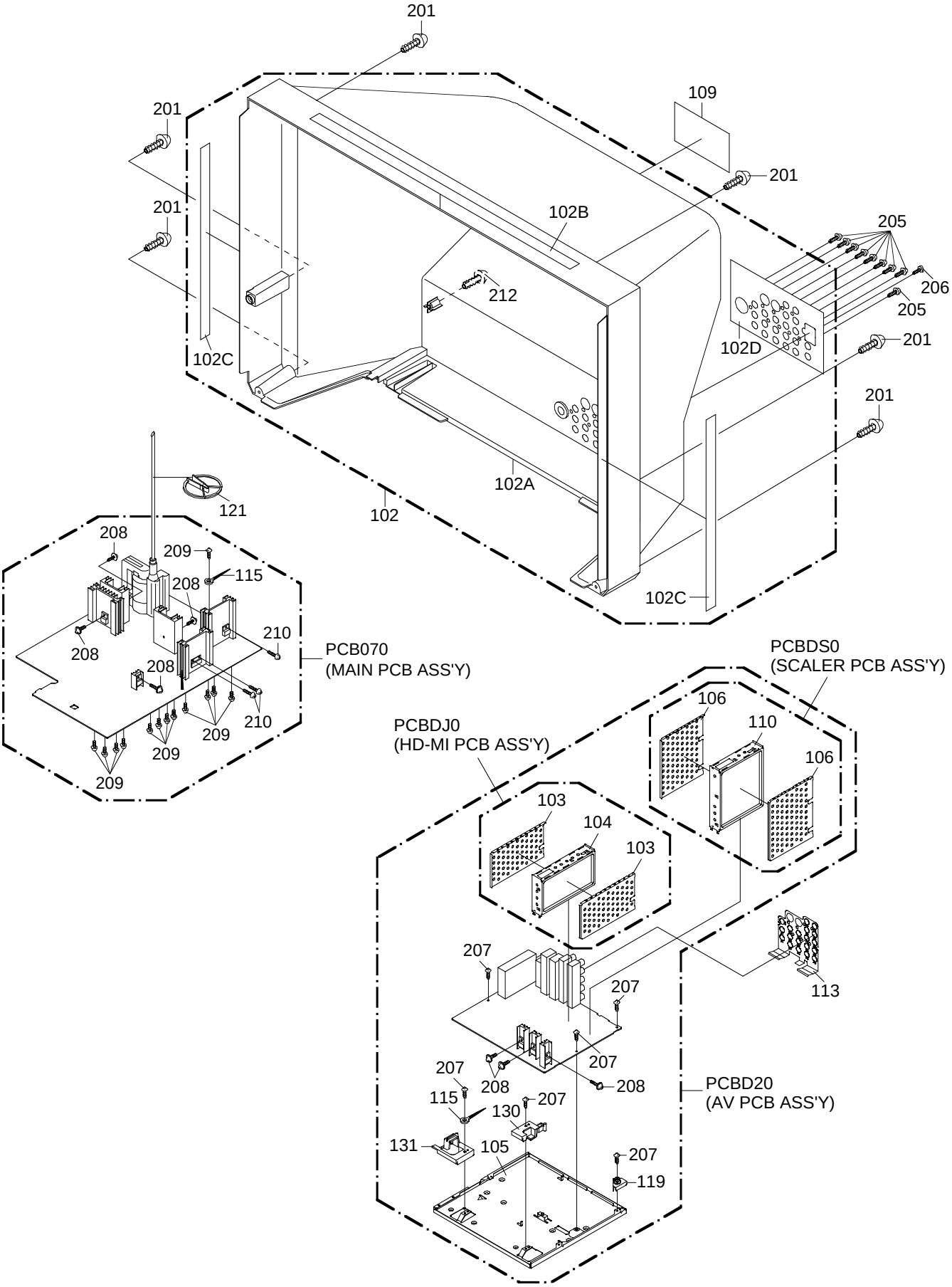
43

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

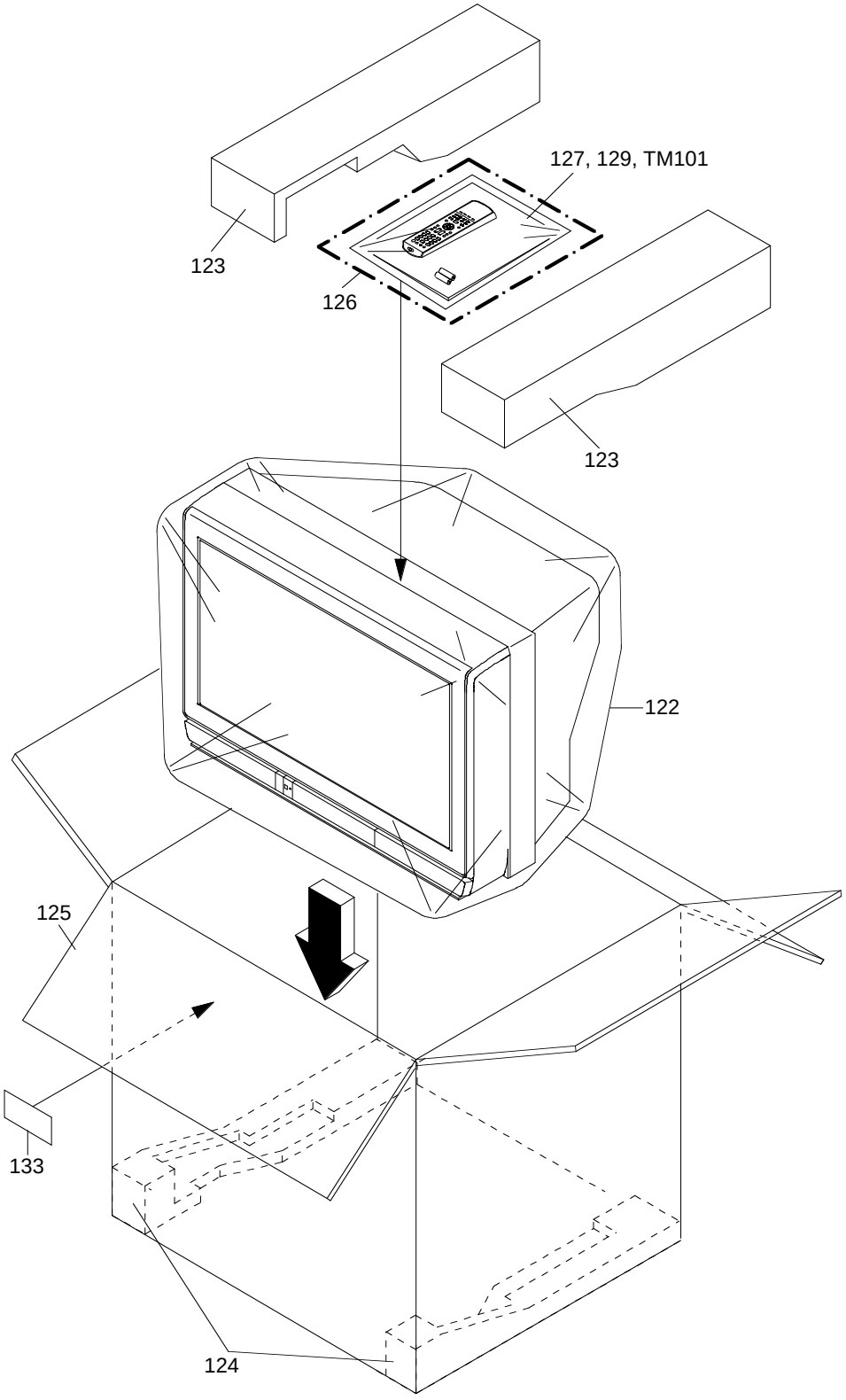
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW
(PACKING DIAGRAM)



MECHANICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description
101	72781122	7A7010081A	FRONT CABI ASS'Y
101A	72799290	701WPJ1278	CABINET,FRONT
101B	72799403	711WPA0210	PLATE,FRONT
101C	72799432	712WPJ0902	DOOR
101D	72799464	713WPA0334	GUIDE,REMOCON
101E	72799568	7230007791	SHEET,BUTTON
101F	72799569	7230007792	AV,LABEL
101G	72781985	7235490036	BADGE,BRAND
101H	72799753	735WPB0300	BUTTON,FRAME
101I	72799788	735WPJ0244	BUTTON,POWER
101J	72799819	738WPA0106	STOPPER,BUTTON
101K	72796103	800WQ0A052	FELT SHEET
101L	72799910	761WPA0344	HOLDER,LED
101M	72795680	8995034000	CORD CLIP UL CO.
102	72781173	7A7020040A	BACK CABI ASS'Y
102A	72799338	702WPA1107	CABINET,BACK
102B	72798776	800WQ0A050	FELT,SHEET
102C	72798774	800WQ0A045	FELT SHEET
102D	72799585	7230007896	SHEET,JACK
103	72799836	752WSA0413	HDMI SHIELD,COVER
104	72799837	752WSA0414	HDMI SHIELD,BOTTOM
105	72799845	752WSA0448	PLATE,BOTTOM
106	72799841	752WSA0429	HDMI SHIELD,COVER2
107	72795687	741WUA0021	SPRING EARTH
108	72795680	8995034000	CORD CLIP UL CO.
109	72782473	722549A498	SHEET,RATING
110	72799842	752WSA0430	HDMI SHIELD,BOTTOM2
111	72782479	723000C993	POP LABEL
112	72798684	762WPA0011	HOLDER CRT WIRE
113	72799843	752WSA0433	SHIELD,AV JACK
114	72796254	761WPAA115	HOLDER SPEAKER
115	72795699	899EFBA002	WIRING-CLIP
116	72799906	761WPA0325	HOLDER,PCB RAIL
117	72799963	769WSAA008	WASHER,CRT T=0.5
118	72794733	801WR00001	DAMPER SPEAKER
119	72799911	761WPA0347	HOLDER,PCB-1
120	72795058	890DL20000	DOOR LATCHES(DL2)
121	72794734	899HV3T000	HOLDER ANODE WIRE
122	72794741	791WHAA116	FILM,BAG
123	72799987	792WHA0548	PACKAGE,TOP
124	72799988	792WHA0549	PACKAGE,BOTTOM
125	72782508	793WCDC824	GIFT BOX
126	72782509	A3S4020975	INSTRUCTION BOOK KIT
127	72794753	JA4KD100	POLYBAG INSTRUCTION(RED CAUTION)
128	72795595	724000A006	SHEET,CSA
129	72781580	J3S40221A	INSTRUCTION BOOK
130	72799912	761WPA0348	HOLDER,PCB-2
131	72799913	761WPA0349	HOLDER,PCB-3
132	72781200	800WF00062	CUSHION 55*5*T1
133	72782515	723000D011	SHEET,BAR CODE
201	72798795	8117540B0U	SCREW TAP TITE(B0) TRUSS 4*20 CH
202	72781295	8162540A6U	SCREW TAPPING (BO) WASHER 18
203	72781286	8141H60D5U	SCREW,TAP TITE(P) GW20 6*45 CH HEXAGON
204	72798791	8110630A0U	SCREW TAP TITE(P) BRAZIER 3*10 CH
205	72798790	811063080U	SCREW TAP TITE(P) BRAZIER 3*8 CH
206	72781228	810213080U	SCREW,PAN M3*8
207	72798787	810923080U	SCREW TAP TITE(B) BIND 3*8 CH
208	72798789	8109I30A0U	SCREW TAP TITE(B) WH7 3*10 CH
209	72781251	810963080Q	SCREW TAP TITE(B) BRAZIER 3*8 STAINLESS
210	72798786	810763080U	SCREW TAP TITE(S) BRAZIER 3*8 CH
211	72781293	8159130A0U	SCREW TAPPING(B) WASHER12 PAN 3*10 CH
212	72781279	8117540A6U	SCREW TAP TITE(B0) TRUSS 4*16 CH

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			RESISTORS	
⚠R401	72795992	R4X5T6222F	R,METAL	2.2K OHM 1/6W
⚠R403	72794594	R4X5T6183F	R,METAL	18K OHM 1/6W
⚠R405	72795516	R4X5T6153F	R,METAL	15K OHM 1/6W
⚠R406	72795113	R3X18A680J	R,METAL OXIDE	68 OHM 2W
⚠R408	72797865	R3X181R22J	R,METAL OXIDE	0.22 OHM 1W
⚠R413	72798016	R655812R2J	R,FUSE	2.2 OHM 1W
⚠R416	72798016	R655812R2J	R,FUSE	2.2 OHM 1W
⚠R417	72797919	R3X28B221J	R,METAL OXIDE	220 OHM 3W
⚠R429	72794597	R002T22R2J	RC	2.2 OHM 1/2W
⚠R430	72797985	R5X2CF1R8J	R,CEMENT	1.8 OHM 10W
⚠R434	72794597	R002T22R2J	RC	2.2 OHM 1/2W
⚠R438	72781707	R3X181332J	R,METAL	3.3K OHM 1W
⚠R445	72798016	R655812R2J	R,FUSE	2.2 OHM 1W
⚠R462	72797919	R3X28B221J	R,METAL OXIDE	220 OHM 3W
⚠R468	72796031	R3K181102J	R,METAL OXIDE	1K OHM 1W
⚠R472	72797835	R3X181120J	R,METAL OXIDE	12 OHM 1W
⚠R473	72797835	R3X181120J	R,METAL OXIDE	12 OHM 1W
⚠R492	72794639	R3X181100J	R,METAL OXIDE	10 OHM 1W
⚠R501	72795997	R4X5T6272F	R,METAL	2.7K OHM 1/6W
⚠R503	72795500	R002T2155J	RC	1.5M OHM 1/2W
⚠R508	72794684	R002T4101J	RC	100 OHM 1/4W
⚠R510	72794631	R0G3K2275K	RC	2.7M OHM 1/2W
⚠R515	72796001	R3X28A104J	R,METAL OXIDE	100K OHM 2W
⚠R516	72795995	R3X181R27J	R,METAL OXIDE	0.27 OHM 1W
⚠R517	72794633	R63881R22J	R,FUSE	0.22 OHM 1W
⚠R518	72795995	R3X181R27J	R,METAL OXIDE	0.27 OHM 1W
⚠R520	72794597	R002T22R2J	RC	2.2 OHM 1/2W
⚠R524	72797881	R3X18A331J	R,METAL OXIDE	330 OHM 2W
⚠R525	72797843	R3X1811R5J	R,METAL OXIDE	1.5 OHM 1W
⚠R530	72781732	R5X2CF010J	R,CEMENT	1 OHM 10W
⚠R545	72797923	R3X28B2R7J	R,METAL OXIDE	2.7 OHM 3W
⚠R548	72796018	R3X18AR47J	R,METAL OXIDE	0.47 OHM 2W
⚠R560	72797916	R3X28B1R2J	R,METAL OXIDE	1.2 OHM 3W
⚠R801	72797980	R5X2CE332J	R,CEMENT	3.3K OHM 7W
⚠R834	72797980	R5X2CE332J	R,CEMENT	3.3K OHM 7W
⚠R842	72797980	R5X2CE332J	R,CEMENT	3.3K OHM 7W
⚠R855	72798023	R65582151J	R,FUSE	150 OHM 1/2W
⚠R881	72797878	R3X18A271J	R,METAL OXIDE	270 OHM 2W
⚠R3411	72797889	R3X18AR39J	R,METAL OXIDE	0.39 OHM 2W
⚠R3412	72797889	R3X18AR39J	R,METAL OXIDE	0.39 OHM 2W
			CAPACITORS	
⚠C403	72794396	E02LU8220M	CE	22 UF 100V
⚠C404	72781391	E61DFB470M	CE	47 UF 160V
C412	72796346	P4J7F3274J	CMPP	0.27 UF 250V PMS
C417	72797679	P3N1F5153J	CPP	0.015 UF 630V
⚠C418	72781652	P4N8FK822H	CMPP	0.0082UF 1.5KV
C425	72797693	P4J7F3335J	CMPP	3.3 UF 250V PMS
C426	72795570	E0ELFD220M	CE	22 UF 250V
⚠C429	72794380	E02LU4101M	CE	100 UF 35V
⚠C430	72794381	E5EZF3222M	CE	2200 UF 25V
C433	72797090	C03L0R7W2K	CC	820 PF 2KV R
⚠C434	72797479	E5EZF4222M	CE	2200 UF 35V
C438	72781649	P4J7F3333J	CMPP	0.033 UF 250V PMS
⚠C446	72794394	E5EZFD220M	CE	22 UF 250V
⚠C502	72795566	P2122B224M	CMP	0.22 UF 275V ECQUL
⚠C505	72795567	P2122B104M	CMP	0.1 UF 275V ECQUL
C506	72794407	P411F4393J	CMPP	0.039 UF 400V ECWF
⚠C509	72797480	E5EZFC220M	CE	22 UF 200V
C512	72794399	C0PLRR713K	CC	0.001 UF 2KV R
⚠C517	72781338	CD39B0MH2K	CC	220 PF 250V
⚠C519	72797128	CD39E0ME3M	CC	0.0015UF 250V
⚠C525	72794403	CD39E0MH3M	CC	0.0022UF 250V
⚠C528	72794440	C0JBB07H3K	CC	0.0022UF 2KV B
⚠C529	72794440	C0JBB07H3K	CC	0.0022UF 2KV B
⚠C530	72795809	E51DFC102M	CE	1000 UF 200V
⚠C536	72795814	E5EZF3332M	CE	3300 UF 25V

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			CAPACITORS	
⚠C541	72796333	E5EZ01222M	CE	2200 UF 10V
⚠C542	72794360	E02LF3102M	CE	1000 UF 25V
C543	72795581	C0PLRR7E3K	CC	0.0015 UF 2KV R
⚠C545	72796328	E61SFC221M	CE	220 UF 200V
⚠C548	72795831	E5EZF4102M	CE	1000 UF 35V
C549	72795580	C0PLRR7W2K	CC	820 PF 2KV RR
C572	72781392	E61FF1222D	CE	2200 UF 10V
C808	72795857	C13DB0713K	CC	0.001 UF 2KV B
C809	72797430	E0ELFD330M	CE	33 UF 250V
C870	72795846	E50HU2470M	CE	47 UF 16V
C1003	72797479	E5EZF4222M	CE	2200 UF 35V
C3406	72794366	E02LF0332M	CE	3300 UF 6.3V
			DIODES	
D001	72794465	D97U03301B	DIODE,ZENER	MTZJ33B T-77
D101	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D102	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D103	72795542	D97U03R91B	DIODE,ZENER	MTZJ3.9B T-77
D104	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D105	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D106	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D107	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D108	72795542	D97U03R91B	DIODE,ZENER	MTZJ3.9B T-77
D109	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D110	72795542	D97U03R91B	DIODE,ZENER	MTZJ3.9B T-77
D111	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D112	72782547	D28TQS04N0	DIODE,SCHOTTKY	11EQS04N-TA1B2
⚠D402	72794472	D2WTAU02A0	DIODE,SILICON	AU02A-EIC
⚠D403	72794488	D2WT011E10	DIODE,SILICON	11E1-EIC
⚠D404	72794488	D2WT011E10	DIODE,SILICON	11E1-EIC
⚠D405	72781370	DCBFMQ3GU0	DIODE	FMQ-3GULF027-102
D406	72796081	D2WXGP10J0	DIODE,RECTIFIER	RGP10J-EIC
D407	72794477	D97U01501B	DIODE,ZENER	MTZJ15B T-77
⚠D408	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D409	72794477	D97U01501B	DIODE,ZENER	MTZJ15B T-77
D410	72794488	D2WT011E10	DIODE,SILICON	11E1-EIC
⚠D411	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
⚠D412	72794483	D2WXN49370	DIODE,SILICON	1N4937
D413	72794465	D97U03301B	DIODE,ZENER	MTZJ33B T-77
D414	72794465	D97U03301B	DIODE,ZENER	MTZJ33B T-77
⚠D415	72794472	D2WTAU02A0	DIODE,SILICON	AU02A-EIC
D417	72797333	D97U03901B	DIODE ZENER	MTZJ39B T-77
D418	72794465	D97U03301B	DIODE,ZENER	MTZJ33B T-77
D420	72794477	D97U01501B	DIODE,ZENER	MTZJ15B T-77
D423	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D424	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
⚠D501	72797313	D6CE24110A	DIODE,VARISTA	ENE241D-10A-Q6
D502	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D503	72797335	D97U03R31B	DIODE,ZENER	MTZJ3.3B T-77
D504	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D505	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
⚠D506	72795626	D2WXN40050	DIODE,SILICON	1N4005-EIC
⚠D507	72795626	D2WXN40050	DIODE,SILICON	1N4005-EIC
D508	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
⚠D510	72795626	D2WXN40050	DIODE,SILICON	1N4005-EIC
⚠D511	72795626	D2WXN40050	DIODE,SILICON	1N4005-EIC
D512	72797311	D2WXGP10K0	DIODE,RECTIFIER	RGP10K-EIC
D514	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
⚠D515	72796388	D28T0ERB20	DIODE,RECTIFIER	10ERB20-TA1B2
D517	72795541	D97U01801B	DIODE,ZENER	MTZJ18B T-77
D519	72794483	D2WXN49370	DIODE,SILICON	1N4937
⚠D520	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D521	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D522	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D523	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D524	72794483	D2WXN49370	DIODE,SILICON	1N4937
⚠D525	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			DIODES	
⚠D526	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D527	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
⚠D528	72794473	D2WTRM11C0	DIODE,SILICON	RM11C-EIC
D529	72795541	D97U01801B	DIODE,ZENER	MTZJ18B T-77
⚠D530	72794480	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
D531	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
⚠D532	72794480	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
⚠D533	72794480	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
⚠D534	72794484	DOU002720M	DIODE,VARISTA	DSS-272M-S00B
D535	72795542	D97U03R91B	DIODE,ZENER	MTZJ3.9B T-77
⚠D536	72794475	D2CF2016L0	DIODE,SILICON	FE201-6L49
D537	72782548	D230PF6DT0	DIODE,SILICON	FEPF6DT
⚠D539	72782549	D28F30DF60	DIODE,RECTIFIER	30DF6-FC
D540	72794483	D2WXN49370	DIODE,SILICON	1N4937
⚠D541	72794475	D2CF2016L0	DIODE,SILICON	FE201-6L49
D543	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D544	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D546	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D547	72797325	D97U01101B	DIODE,ZENER	MTZJ11B T-77
D548	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D549	72794465	D97U03301B	DIODE,ZENER	MTZJ33B T-77
D550	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
⚠D551	72795544	D6E027110A	DIODE,VARISTA	ENE271D-10A
D554	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D556	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D557	72796388	D28T0ERB20	DIODE,RECTIFIER	10ERB20-TA1B2
D601	72781355	D28T0ERB60	DIODE,RECTIFIER	10ERB60-TA1B2
D606	72797330	D97U02R01B	DIODE,ZENER	MTZJ2.0B T-77
D607	72797329	D97U02701B	DIODE,ZENER	MTZJ27B T-77
D608	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D609	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D610	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D611	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D612	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D613	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D614	72794487	D97U01201B	DIODE,ZENER	MTZJ12B T-77
D615	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D616	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D617	72794481	D97U09R11B	DIODE,ZENER	MTZJ9.1B T-77
D618	72794487	D97U01201B	DIODE,ZENER	MTZJ12B T-77
D619	72794487	D97U01201B	DIODE,ZENER	MTZJ12B T-77
D621	72796387	D97U01301B	DIODE,ZENER	MTZJ13B T-77
D622	72794487	D97U01201B	DIODE,ZENER	MTZJ12B T-77
D701	72794478	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
D702	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D703	72794489	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D704	72794478	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
D705	72797325	D97U01101B	DIODE,ZENER	MTZJ11B T-77
D801	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D802	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D803	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D807	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D808	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D809	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D853	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D854	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D855	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D856	72794491	D1VT001330	DIODE,SILICON	1SS133T-77
D901	72794487	D97U01201B	DIODE,ZENER	MTZJ12B T-77
D2001	72782547	D28TQS04N0	DIODE,SCHOTTKY	11EQS04N-TA1B2
D2009	72795529	0021721150	LED	SLR-342VCT32
D2101	72781375	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D2102	72781375	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D2103	72781375	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D3401	72794488	D2WT011E10	DIODE,SILICON	11E1-EIC
D3403	72794480	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			DIODES	
D3404	72794480	D28T21DQN9	DIODE,SCHOTTKY	21DQ09N-TA2B1
D3451	72797300	D28R1QS040	DIODE	EC31QS04-TE12L
D3601	72781361	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT
D3602	72781375	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D3603	72781361	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT
D3604	72781372	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25
D3605	72781372	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25
D3609	72781374	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17
D3613	72781374	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17
			ICS	
IC101	72781484	I56F57118A	IC	OEC7118A
IC102	72795101	I9UF032290	IC	PST3229NR
IC103	72795101	I9UF032290	IC	PST3229NR
IC199	72782559	A3S3020D25	INIT DATA	AT24C256N-10SU-2.7
⚠IC401	72794507	I03TD80410	IC	LA78041
⚠IC402	72797545	I03S065100	IC	LA6510
⚠IC501	72794512	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
⚠IC502	72781441	I0BD0159M0	IC	STR-A6159M
⚠IC503	72794512	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
⚠IC504	72794508	I1KJ9A431A	IC	KIA431A-AT
⚠IC505	72795905	I1KA78R090	IC	KIA278R09PI
⚠IC506	72794508	I1KJ9A431A	IC	KIA431A-AT
IC602	72797548	I05DD13170	IC	TA1317ANG
IC603	72797549	I05DE13600	IC	TA1360ANG
IC701	72794501	I01F05853B	IC	AN15853B-E1
IC702	72797567	I0QF025840	IC	NJM2584AM(TE1)
IC705	72781437	I05FE13830	IC	TA1383FG
IC706	72797567	I0QF025840	IC	NJM2584AM(TE1)
IC707	72796398	I0QF02533V	IC	NJM2533V(TE2)
IC902	72781456	I19FFP3440	IC	MSP3440G-QA-C12-001(BBE)
⚠IC1001	72797560	I0FSP52760	IC	AN5276
IC1501	72781476	I55FE0A920	IC	TC90A92AFG
IC2101	72781516	IFSK0883C0	IC	MST9883C-LF-110
⚠IC3400	72796395	I1KA98R09A	IC	KIA78R09API
⚠IC3401	72795906	I1KA78R050	IC	KIA278R05PI
⚠IC3402	72795907	I1KA98R330	IC	KIA278R33PI
IC3451	72781445	I0GF91ZPH0	IC	PQ070XZ01ZPH
IC3452	72781445	I0GF91ZPH0	IC	PQ070XZ01ZPH
IC3601	72797597	I1KF98D330	IC	KIA78D33F
IC3602	72797597	I1KF98D330	IC	KIA78D33F
IC3604	72795921	I0QJ045800	IC	NJM4580M(TE1)
IC3605	72781495	I5PF099930	IC	SII9993CTG100
IC3606	72782562	S3S4010E02	MEMORY DATA	BR24L02F-WE2
IC3607	72781457	I1FF043340	IC	CS4334-KSZR
IC3608	72782564	S3S4010E03	MEMORY DATA	BR24L32F-WE2
IC3611	72781499	ICMF08RD20	IC	SST89E58RD2-40-C-TQJE
IC3612	72797630	I5CF01G080	IC	SN74AHC1G08DCKR
IC3901	72781517	IFTK023010	IC	FLI2301-LF-BD
IC3902	72781509	IF6J032B26	IC	MT48LC2M32B2P-6(Y14W)
			TRANSISTORS	
Q101	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q102	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q103	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q104	72781802	TNRAB05005	COMPOUND TRANSISTOR	RT1N140C-T1
⚠Q401	72798334	TC5TC3328Y	TRANSISTOR,SILICON	2SC3328_Y(TPE6_F)
⚠Q402	72781789	T250029200	FET	2SK2920(Q)
⚠Q403	72798339	TCKF059040	TRANSISTOR,SILICON	2SC5904000LI
Q405	72796427	TNRAB05004	COMPOUND TRANSISTOR	RT1N141C-T1
Q407	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q408	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q413	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q501	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q502	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q503	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
⚠Q504	72798351	TJXG15NK50	FET	STP15NK50ZFP
⚠Q505	72795476	TCAT032034	TRANSISTOR,SILICON	KTC3203_Y-AT

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			TRANSISTORS	
Q506	72794570	TCAT03209Y	TRANSISTOR,SILICON	KTC3209_Y-AT
Q507	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
⚠Q508	72794569	TA3T016240	TRANSISTOR,SILICON	2SA1624-AA
⚠Q509	72794570	TCAT03209Y	TRANSISTOR,SILICON	KTC3209_Y-AT
Q510	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q601	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q602	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q603	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q604	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q605	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q606	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q607	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q608	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q611	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q612	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q613	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q615	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q616	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q617	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q701	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q702	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q703	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q704	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q705	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q706	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q708	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q709	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q710	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q716	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q717	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
⚠Q801	72798331	TC30040750	TRANSISTOR,SILICON	2SC4075D/E
⚠Q802	72798331	TC30040750	TRANSISTOR,SILICON	2SC4075D/E
⚠Q803	72798331	TC30040750	TRANSISTOR,SILICON	2SC4075D/E
Q804	72794578	TAATA12660	TRANSISTOR,SILICON	KTA1266-AT(Y,GR)
⚠Q810	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
⚠Q811	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
⚠Q812	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q814	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q852	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q853	72794576	TCUT0752GY	TRANSISTOR,SILICON	2SC752(G)TM_Y(TP2
Q854	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q855	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q856	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q857	72794578	TAATA12660	TRANSISTOR,SILICON	KTA1266-AT(Y,GR)
Q858	72794579	TA10021400	TRANSISTOR,SILICON	2SA2140
Q859	72794580	TC10059930	TRANSISTOR,SILICON	2SC5993
Q860	72794577	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q1098	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q1099	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q1501	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q1502	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q1503	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q1504	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q1505	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q2001	72796429	TNRAC05003	COMPOUND TRANSISTOR	RT1N241C-T1
⚠Q3403	72798330	TBA0013660	TRANSISTOR,SILICON	KTB1366(O,Y)
Q3404	72781802	TNRAB05005	COMPOUND TRANSISTOR	RT1N140C-T1
Q3603	72798315	T27T030180	FET	2SK3018T106
Q3604	72798315	T27T030180	FET	2SK3018T106
Q3605	72798315	T27T030180	FET	2SK3018T106
Q3606	72798315	T27T030180	FET	2SK3018T106
Q3607	72798315	T27T030180	FET	2SK3018T106
Q3608	72795966	TPYJA05001	COMPOUND TRANSISTOR	DTA143EKAT146
Q3609	72794559	TNYJD05001	COMPOUND TRANSISTOR	DTC144EKAT146
Q3610	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q3611	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			TRANSISTORS	
Q3612	72794559	TNYJD05001	COMPOUND TRANSISTOR	DTC144EKAT146
Q3613	72795479	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q3901	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q3902	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q3903	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q3904	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q3905	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q3906	72795481	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
			COILS &TRANSFORMERS	
L002	72796409	021LA6330K	COIL	33 UH
L402	72798928	022R00043A	COIL,LINEARITY	ELH5L7151N
L406	72796650	02D3000063	COIL,CHOKE	ELC18B151LK
L407	72796650	02D3000063	COIL,CHOKE	ELC18B151LK
L408	72798954	02D3000069	COIL,CHOKE	ELC18B103LM
⚠L502	72798944	029X000122	COIL,LINE FILTER	SS28V-R22110-CH
⚠L503	72798944	029X000122	COIL,LINE FILTER	SS28V-R22110-CH
L504	72796513	02167E220K	COIL	22 UH
L505	72796088	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
L506	72796513	02167E220K	COIL	22 UH
L508	72796087	02167E100K	COIL	10 UH
L602	72794526	02167F220J	COIL	22 UH
L603	72794526	02167F220J	COIL	22 UH
L604	72794526	02167F220J	COIL	22 UH
L606	72796571	021LA6220J	COIL	22 UH
L607	72794526	02167F220J	COIL	22 UH
L701	72796089	02167F470J	COIL	47 UH
L702	72796089	02167F470J	COIL	47 UH
L703	72796089	02167F470J	COIL	47 UH
L705	72794540	02167F101J	COIL	100 UH
L706	72796089	02167F470J	COIL	47 UH
L707	72796089	02167F470J	COIL	47 UH
L708	72796089	02167F470J	COIL	47 UH
L710	72796089	02167F470J	COIL	47 UH
L712	72794540	02167F101J	COIL	100 UH
L805	72795941	021673101K	COIL	100 UH
L806	72795941	021673101K	COIL	100 UH
L807	72795941	021673101K	COIL	100 UH
L808	72795932	02167F150J	COIL	15 UH
L809	72795932	02167F150J	COIL	15 UH
L810	72795932	02167F150J	COIL	15 UH
L901	72795062	02167F100J	COIL	10 UH
L904	72795062	02167F100J	COIL	10 UH
L905	72795062	02167F100J	COIL	10 UH
L1501	72798915	0216S8330K	COIL	33 UH
L1502	72798916	0216S8470K	COIL	47 UH
L1503	72798913	0216S81R5M	COIL	1.5 UH
L1504	72798916	0216S8470K	COIL	47 UH
L1505	72798910	0216S8100K	COIL	10 UH
L1506	72798910	0216S8100K	COIL	10 UH
L1507	72798910	0216S8100K	COIL	10 UH
L1508	72798912	0216S8150K	COIL	15 UH
L1509	72798912	0216S8150K	COIL	15 UH
L1511	72798912	0216S8150K	COIL	15 UH
L1512	72798912	0216S8150K	COIL	15 UH
L1513	72798906	0216S4220J	COIL	22 UH
L1514	72798915	0216S8330K	COIL	33 UH
L2101	72798916	0216S8470K	COIL	47 UH
L2103	72798916	0216S8470K	COIL	47 UH
L2104	72798919	0216SD5R6J	COIL	5.6 UH
L2105	72798919	0216SD5R6J	COIL	5.6 UH
L2106	72798919	0216SD5R6J	COIL	5.6 UH
L3401	72796513	02167E220K	COIL	22 UH
L3402	72796513	02167E220K	COIL	22 UH
L3601	72798955	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3602	72798955	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3603	72798955	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			COILS &TRANSFORMERS	
L3604	72798955	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3901	72798916	0216S8470K	COIL	47 UH
L3903	72798907	0216S4270J	COIL	27 UH
L3907	72798916	0216S8470K	COIL	47 UH
L3908	72798916	0216S8470K	COIL	47 UH
L3909	72798912	0216S8150K	COIL	15 UH
T401	72796676	0450190181	TRANS,HORIZONTAL DRIVE	ETH19K208AZ
⚠T501	72798968	048119003S	TRANSFORMER,SWITCHING	8119003S
⚠T502	72798983	0481490034	TRANSFORMER,SWITCHING	81490034
			JACKS	
J705	72794518	060J431020	RCA JACK	MSP-213V2-432_NI_LF
J706	72799002	060Q431019	RCA JACK	YKC21-7306N
J707	72799002	060Q431019	RCA JACK	YKC21-7306N
J708	72799004	063D000078	JACK PLATE	MSP-803V-BBA-432_NI_LF
J709	72799004	063D000078	JACK PLATE	MSP-803V-BBA-432_NI_LF
⚠J801	72799008	066C130024	SOCKET,CATHODE RAY TUBE	CVT3205-5101FSZ
J2201	72799005	063D700010	JACK	MDC-012V1-A_LF
J2202	72794519	060J401104	RCA JACK	MTJ-032-03A-30FE
J2203	72794520	060J401106	RCA JACK	MTJ-032-03A-32FE
J2204	72794521	060J401105	RCA JACK	MTJ-032-03A-31FE
J3601	72795925	060J421037	RCA JACK	MTJ-032-05A-32-FE
J3602	72795926	060J421030	RCA JACK	MTJ-032-05A-31-FE
			SWITCHES	
SW2001	72794688	0504101T34	SWITCH,TACT	EVQ21505R
SW2002	72794688	0504101T34	SWITCH,TACT	EVQ21505R
SW2003	72794688	0504101T34	SWITCH,TACT	EVQ21505R
SW2004	72794688	0504101T34	SWITCH,TACT	EVQ21505R
SW2005	72794688	0504101T34	SWITCH,TACT	EVQ21505R
			P.C.BOARD ASSEMBLIES	
PCB070	72782573	A3S3010070	PCB ASS'Y	CME018A
PCB110	72782579	A3S3010110	PCB ASS'Y	CCD002B
PCB260	72782583	A3S3010260	PCB ASS'Y	CEE040A
PCBD20	72782589	A3S3020D20	PCB ASS'Y	CED019A
PCBD80	72782593	A3S3010D80	PCB ASS'Y	CED012B
PCBDJ0	72782598	A3S3020DJ0	PCB ASS'Y	CED011A
PCBDS0	72782602	A3S3010DS0	PCB ASS'Y	CED020A
			MISCELLANEOUS	
B403	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B404	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B405	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B851	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B852	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B853	72794357	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B1501	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B2102	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3601	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3602	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3603	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3604	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3608	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3609	72796605	024HC36001	CORE,BEADS	HCB2012K-600T25
B3610	72795786	024HC31022	CORE,BEADS	FCM2012H-102T04
B3611	72795786	024HC31022	CORE,BEADS	FCM2012H-102T04
BT001	72799278	141R004016	BATTERY,MANGAN	GR03X-SP2
BT002	72799278	141R004016	BATTERY,MANGAN	GR03X-SP2
CD101	72795876	06C32B3303	CORD,CONNECTOR	C32B3303
⚠CD501	72799246	1209415909	CORD,AC BUSH	9415909
⚠CD507	72798934	028R260002	COIL,DEGAUSS	8R260002
CD509	72796904	06CU2D2501	CORD,CONNECTOR	CU2D2501
CD601	72799147	06CU294002	CORD,CONNECTOR	CU294002
CD603	72796878	06CU225201	CORD,CONNECTOR	CU225201
CD605	72799141	06CU273302	CORD,CONNECTOR	CU273302
CD802	72794462	WEL6854038	FLAT CABLE	AWM2468 AWG26 7C GRAY 540MM
CD803	72799104	06C383037A	CORD,CONNECTOR	C383037A
CD808	72796374	WCL6830038	FLAT CABLE	AWM2468 AWG26 5C GRAY 300MM
CD851	72781811	WAL6840038	FLAT CABLE	AWM2468 AWG26 3C GRAY 400MM

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			MISCELLANEOUS	
CD852	72794464	06CU232001	CORD,CONNECTOR	CU232001
CP101	72796807	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP103	72796802	069S270639	CONNECTOR PCB SIDE	A2001WR2-7P
CP403	72796792	069S120419	CONNECTOR PCB SIDE	A2502WV2-2P
⚠CP404	72782003	069X460109	CONNECTOR PCB SIDE	B06B-DVS-L_(LF)
⚠CP501	72796821	069S420110	CONNECTOR PCB SIDE	A1561WV2-2P
CP503	72796768	069D01001A	CONNECTOR PCB SIDE	003P-2100
CP504	72796768	069D01001A	CONNECTOR PCB SIDE	003P-2100
CP506	72796768	069D01001A	CONNECTOR PCB SIDE	003P-2100
CP509	72796810	069S2D0629	CONNECTOR PCB SIDE	A2001WV2-13P
CP510	72796768	069D01001A	CONNECTOR PCB SIDE	003P-2100
CP601	72796804	069S290629	CONNECTOR PCB SIDE	A2001WV2-9P
CP602	72796753	067U007029	WIRE HOLDER	B2013H02-7P
CP605	72796801	069S270629	CONNECTOR PCB SIDE	A2001WV2-7P
CP801	72796080	069S220629	CONNECTOR PCB SIDE	A2001WV2-2P
CP803	72796818	069S330010	CONNECTOR PCB SIDE	A2361WV2-3P
CP804	72796824	069W010010	CONNECTOR PCB SIDE	005P-2100
CP852	72796794	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P
CP853	72796749	067U003029	WIRE HOLDER	B2013H02-3P
CD1001	72799134	06CU241001	CORD CONNECTOR	CU241001
CD1002	72799067	06C3146805	CORD CONNECTOR	C3146805
CD2201	72799144	06CU283001	CORD CONNECTOR	CU283001
CD2251	72799120	06CU013502	CORD CONNECTOR	CU013502
CP1001	72796796	069S240629	CONNECTOR PCB SIDE	A2001WV2-4P
CP1002	72796793	069S140419	CONNECTOR PCB SIDE	A2502WV2-4P
CP2201	72796803	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
CP3601	72799030	069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA
CP3602	72799037	069J1K0048	CONNECTOR	IMSA-9130S-20L
CP3604	72796805	069S290639	CONNECTOR PCB SIDE	A2001WR2-9P
CP802B	72796783	069R270589	CONNECTOR PCB SIDE	52147-0710
CP808A	72796751	067U005049	WIRE HOLDER	B2013H02-5P
CP808B	72796781	069R250589	CONNECTOR PCB SIDE	52147-0510
CP851A	72796749	067U003029	WIRE HOLDER	B2013H02-3P
CP851B	72796779	069R230589	CONNECTOR PCB SIDE	52147-0310
CP3604A	72799038	069J1K0078	CONNECTOR PCB SIDE	IMSA-9130B-20-PT1
CP3901A	72799044	069R2Y0720	CONNECTOR PCB SIDE	79107-7016
CP3901B	72799043	069R2Y0700	CONNECTOR PCB SIDE	87760-3416
EL0701	72797069	124116281A	EYE LET	XRY16X28BD
EL0702	72797070	124120301A	EYE LET	XRY20X30BD
EL1101	72797069	124116281A	EYE LET	XRY16X28BD
EL1102	72797070	124120301A	EYE LET	XRY20X30BD
⚠F501	72794493	081PC6R305	FUSE	51MS063L
⚠F502	72796952	0835A07005	MICRO FUSE	20N_7000FSW
⚠FB401	72798964	043226001F	TRANSFORMER,FLYBACK	3226001F
FH501	72794496	06710T0009	HOLDER,FUSE	EYF-52BCY
FH502	72794496	06710T0009	HOLDER,FUSE	EYF-52BCY
NR1501	72797034	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR1502	72797034	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2101	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2102	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2103	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2104	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2105	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2106	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR2107	72799238	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR3901	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3902	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3903	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3904	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3905	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3906	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3907	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3908	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3909	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3910	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3911	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E

ELECTRICAL REPLACEMENT PARTS LIST

Location No.	TSB P/N	Reference No.	Description	
			MISCELLANEOUS	
NR3912	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3913	72799237	110P4000M4	R,NETWORK	4D03WGJ0000T5E
OS2001	72794541	0773071001	REMOTE RECEIVER	RPM7138-WH5
⚠RY501	72794686	0560X20118	RELAY	G5PA-1-SA(WEC)
⚠RY502	72796048	0560V50118	RELAY	ALKS329
⚠SP1001	72799166	070N546012	SPEAKER	YDP4010-2
⚠SP1002	72799166	070N546012	SPEAKER	YDP4010-2
⚠TH502	72795546	DF5EL3R0A0	DEGAUSS ELEMENT	ZPB45BL3R0A
TM101	72799186	076D0KK010	TRANSMITTER	ORT204N7404359-U
⚠TU001	72798895	0163300016	RF UNIT	115-V-KA35AR
⚠V801	72799208	0981260901	CRT W/DY	W66MAF183X81
X103	72799226	100WT01611	CRYSTAL	HC-49/U-S
X603	72781949	1002R01502	CERAMIC OSCILLATOR	CSBLA503KECZF30-B0
X701	72781949	1002R01502	CERAMIC OSCILLATOR	CSBLA503KECZF30-B0
X702	72797007	100CT3R536	CRYSTAL	HC-49/U
X901	72797001	100CT01803	CRYSTAL	HC-49/U-S
X1501	72797013	100DT04201	CRYSTAL	SMD-49
X3601	72799220	100CT01101	CRYSTAL	HC-49/U-S
X3901	72799222	100DT01303	CRYSTAL	SMD-49

RESISTOR

RC..... CARBON RESISTOR

CAPACITORS

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

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN