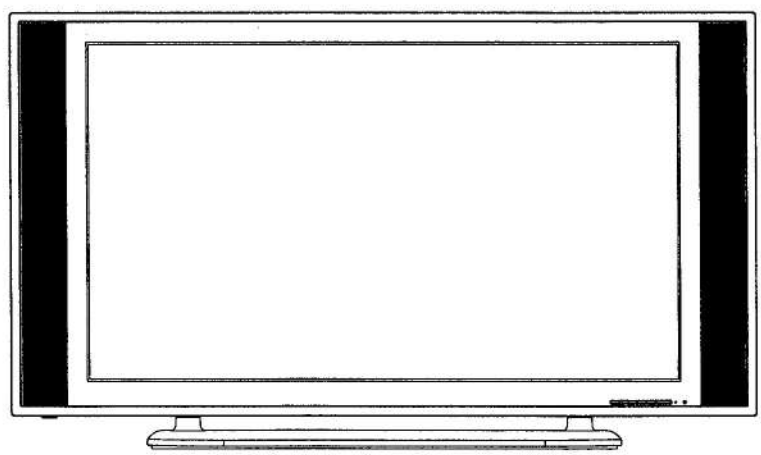
SERVICE MANUAL

ORION

TV-42200SI / TV-42400SI

42" PLASMA COLOR TELEVISION



ORIGINAL
CHASSIS CODE A + B

Best. Nr. SM42200

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

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

2. AVOID AN ELECTRIC SHOCK

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

3. USE THE DESIGNATED PARTS

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

4. BE CAREFUL WITH THE PDP PANEL

1. When you handle the PDP Filter you must wear the gloves twice, because, you are to avoid soil it by your sweat and dust.
2. When you lift the PDP Filter you should hold it with the palm of your hand.
   Don't pick up it with your fingers.
3. The back side of PDP Filter tends to damaged. Since there is no coating.
   Therefore, it put into the packing box at the time of delivery, without piling up even at the time of unused.
   Also, when you take out it from a packing box, be careful of the rubbing.
4. When the surface becomes dirty, wipe it with a soft cloth as you draw a circle.
   When it is dirty hardly, wipe it with a cloth ethanol infiltrated.
   Don't use ethanol for the back side.
5. Do not apply it to direct sunshine so that the characteristic may change.
6. When you inspect the surface (the scratch, the dirt and the air bubble), use the fluorescent light.
7. When you use SCREW DRIVER and SCREW, be careful of a metallic powder being mixed.
8. Do not damage the PDP Module with a DRIVER.
9. Do Handling with the PDP Module by 2 persons.
10. There is a step difference between the cover and PDP Module.
    So, when you remove the screws, place a cushion on it so that the PDP Module is not being scratched.
    Then remove the screws carefully.
11. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
12. Hold the four ends holder and be careful not to touch the glass area.
13. Take care for the damage of vacuum exhaust pipe due to a collision.
14. Moisture condensation may damage the PDP Module.
    So, leave it for 48 hours at the service room.

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

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

6. PERFORM A SAFETY CHECK AFTER SERVICING

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

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal **[Note 2]** should be more than 2.5M ohm by using the 500V insulation resistance meter **[Note 1]**.
4. If the insulation resistance is less than 2.5M 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
Screw
21pin jack
Side RCA jack
Rrar RCA jack
Headphone jack

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the CHASSIS CODE.)

1. MODEL NUMBER and CHASSIS CODE
   YOU can find it in the back of your unit.
2. PART NO. and DESCRIPTION
   You can find it in your SERVICE MANUAL.

IMPORTANT

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

PANEL LOCK

To unlock the Password of Panel Lock, please follow the steps below.

1. Turn Unit ON.
2. Press and hold the 'VOLUME DOWN' key on the front panel for more than 10 seconds.
3. The Panel Lock has now been cleared.
4. Press and hold the 'VOLUME DOWN' key on the front panel.
5. Simultaneously press and hold the '0' key on the remote control unit.
6. Hold both keys for more than 2 seconds.
7. The Password of Panel Lock has now been cleared.

CONTENTS

GENERAL SPECIFICATIONS

G-1	TV System	PDP	PDP Size / Visual Size	42.32 inch / 1074.9 mmV
			Number of Pixels(H x V)	1024(H) x 768(V)
		Color System		PAL/SECAM
		Speaker		2 Speaker
			Position	Front Side
			Size	2.2 x 5.0 inch
			Impedance	4 ohm
		Sound Output	MAX	10W + 10W
			10%(Typical)	---
		NTSC3.58+4.43 /PAL60Hz		Yes
G-2	Tuning System	Broadcasting System		U.K., I.R., CCIR, FRENCH System B/G, D/K, I/I, L
		Tuner and Receive CH	System	1Tuner
			Destination	UK, I.R., CCIR Hyper+France CATV
			CH Coverage	IreE2~E4,X~Z+2,S1~S10,E5~E12, S11~S41,E21~E69
		Intermediate Frequency		PAL/SECAM(U&VH)/SECAM(VL)
			Picture(FP)	38.9/38.9/33.9MHz
			Sound(FS)	33.4/32.9/32.4/40.4MHz
			FP-FS	5.5/6.0/6.5/6.5MHz
		Auto Tuning Method		ALL Band (Not C.C.I.R. CH Plan)
		Preset CH		80
		Stereo/Dual TV Sound		NICAM/A2 Dual
		Tuner Sound Muting		Yes
G-3	Power	Power Source	AC	230V AC 50Hz
			DC	---
		Power Consumption	at AC	350 W at AC 230 V 50 Hz
			at DC	--
			Stand by (at AC)	2 W at 230V 50Hz
			Per Year	-- kWh/Year
		Protector	Power Fuse	Yes
			Safety Circuit	Yes
			IC Protector(Micro Fuse)	No
G-4	Regulation		Safety	CE(EN60065:98)
			Radiation	CE
			X-Radiation	---
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 (TV)			Yes
			Menu Type		Icon
			Picture		Yes
				Brightness	Yes
				Contrast	Yes
				Color	Yes
				Tint (NTSC Only)	Yes
				Sharpness	Yes
				DNR ON/OFF	Yes
				Color Temperature	Yes
				Blue Back	Yes
			Audio		Yes
				NICAM AUTO/OFF	Yes
				Bass	Yes
				Treble	Yes
				Balance	Yes
				Surround ON/OFF	No
				BBE	Yes
				Speakers ON/OFF	Yes
				HDMI	Yes
			Setup		Yes
				Auto Tuning	Yes
				Manual Tuning	Yes
				CH Allocation	Yes
				BACKLIGHT	No
				Language	Yes
				Text Language	Yes
				Position (Vertical Position)	No
				AUTO 4:3 DEFAULT	Yes
				AV2 Output	Yes
				AV2 Input	Yes
				AV Color	Yes
				Inversion	No
				Full White	Yes
				Screen Saver	Yes
				Brightness Reduce	Yes
			Option		Yes
				On Timer	No
				Off Timer	No
				Panel Lock	Yes
		Menu (PC)			Yes
			Picture		Yes
				BRIGHTNESS	Yes
				CONTRAST	Yes
				HOR POSITION	Yes
				VER POSITION	Yes
				PHASE	Yes
				CLOCK	Yes
				AUTO ADJUST	No
				RED	Yes
				GREEN	Yes
				BLUE	Yes
				WXGA INPUT	Yes
				WVGA INPUT	Yes
			Audio		Yes
				Bass	Yes
				Treble	Yes
				Balance	Yes
				Surround ON/OFF	No
				BBE	Yes
				Speakers	Yes

GENERAL SPECIFICATIONS

		Control Level		Yes
			Volume	Yes
			Brightness	Yes
			Contrast	Yes
			Color	Yes
			Tint (NTSC Only)	Yes
			Sharpness	Yes
			Tuning	Yes
			Bass	Yes
			Treble	Yes
			Balance	Yes
			H Position	Yes
			V Position	Yes
			PHASE	Yes
			CLOCK	Yes
			Red	Yes
			Green	Yes
			Blue	Yes
			Backlight	No
		Nicam ST		Yes
		Tone 1/2		Yes
		Pin Code		No
		FREEZE		No
		CH/AV/PC		Yes
		Hotel Lock		No
		Wide Mode		Yes
		Sleep Timer		Yes
		Sound Mute		Yes
		Input Select		Yes
G-8	**OSD Language**			English French Spanish German Italian Russian
G-9	**Clock and Timer**	Sleep Timer	Max Time	120 Min
			Step	10 Min
		On/Off Timer	Program(On Timer / Off Timer)	No
		Wake Up Timer		No
		Timer Back-up (at Power Off Mode)	more than	– Min Sec

GENERAL SPECIFICATIONS

G-10	Remote Control	Unit		RC-M5
		Glow in Dark Remocon		Yes
		Remocon Format		ORION
		Format		NEC
		Custom Code		80-63 h
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-4 x 2 pcs
		Total Keys		32
		Keys	Power (Stand By)	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			CH Up	No
			CH Down	No
			Volume Up / Right	Yes
			Volume Down / Left	Yes
			Quick View	No
			Sleep	Yes
			Display (CH Call)	Yes
			Normal	No
			Menu	Yes
			Enter	Yes
			Mute	Yes
			Dolby Virtual On/Off	No
			Picture Size	Yes
			Auto	No
			Position	No
			Fine Tuning +	No
			Fine Tuning -	No
			Tone 1/2	No
			Input Select	Yes
		T'TEXT Keys	TEXT / MIX / TV	Yes
			CH Up / Page Up / Up	Yes
			CH Down / Page Down / Down	Yes
			Red	Yes
			Green	Yes
			Yellow	Yes
			Cyan	Yes
			F/T/B(Expand) / Normal	Yes
			Reveal / Skip	Yes
			Display Cancel	No
			Reset	No
			Reset / Tone 1/2	Yes
			Hold / Status	Yes
			Sub Page / Quick View	Yes

GENERAL SPECIFICATIONS

G-11	Features	Auto Shut Off		Yes
		BBE		Yes(Digital)
		Auto Search		Yes
		CH Allocation		Yes
		Channel Lock		No
		Just Clock Function		No
		Game Position		No
		CH Label		No
		T'Text		Yes
			Text type	Fastext / Toptext
			Text Language	English , French, Swedish, Hungarian Finnish, Turkish, German, Dutch Portuguese, Spanish, Italian, Greek Polish, Russian, Bulgarian, Serbian, Croatian, Slovene, Czech, Slovakian, Rumanian.
		Wide Mode		Yes
		Picture Scroll		No
		DNR		Yes 3D
		Comb Filter		Yes 5 Lines
		Surround		No
		Backlight		No
		Stable Sound		No
		PFC(Power Factor circuit)		Yes
		Auto Set Up		No
		Power On Memory		Yes
		Hotel Lock		No
		PC Monitor Input		Yes
		Freeze frame		No
		HD-Ready		Yes
G-12	Accessories	Owner's Manual	Language	German/Czech/French/Dutch
			w/Guarantee Card	Yes
		Remote Control Unit		Yes
		Rod Antenna		No
			Poles	-
			Terminal	-
		Loop Antenna (W/ Antenna Change Plug)		No
			Terminal	-
		U/V Mixer		No
		DC Car Cord (Center+)		No
		Guarantee Card		No
		Warning Sheet		No
		Circuit Diagram		No
		Antenna Change Plug		No
		Service Facility List		No
		Important Safeguard		No
		Dew/AHC Caution Sheet		No
		Quick Set-up Sheet		No
		Battery		Yes
			UM size x pcs	UM-4 x 2 pcs
			OEM Brand	No
		AC Adapter		No
		AC Cord (for AC Adapter)		No
		AC Cord		Yes
		AV Cord (2Pin-1Pin)		No
		HDMI-DVI Cable		Yes
		Registration Card		No
		300 ohm to 75 ohm Antenna Adapter		No

GENERAL SPECIFICATIONS

G-13	Interface	Switch	FRONT	Sub Power (Tact)	Yes
				System Select	No
				Main Power SW	No
				Channel Up/Menu Up	Yes
				Channel Down/Menu Down	Yes
				Volume Up/Menu >	Yes
				Volume Down/Menu <	Yes
				Input Select	Yes
				Menu	No
			REAR	Main Power SW	Yes
		Indicator		Power / Stand-by	Yes(GREEN / RED)
				On Timer	No
		Terminals	Rear	Video Input	No
				Audio Input	No
				S- Input	No
				Video Output	No
				Audio Output	RCA x 2(Variable L, R)
				Component In	RCA x 3
				Audio Input (Component In use)	RCA x 2(L/MONO, R)
				Other Terminal	No
				Euro Scart (21Pin)	3Scart
				HDMI Input	Yes
				Audio Input (HDMI/DVI In use)	RCA x 2 (L/MONO, R)
				Sub Woofer Out	No
				PC Monitor Input (D-Sub)	Yes
				Audio Input	Mini Jack x 1(Stereo)
				Diversity	No
				Ext Speaker	No
				DC Jack 12V(Center +)	No
				VHF/UHF Antenna Input	DIN Type
				AC Inlet	Yes
			Side	Video Input	RCA x 1
				Audio Input	RCA x2(L/MONO,R)
				S- Input	Yes
				Other Terminal	Headphone
G-14	Set Size			Approx. W x D x H (mm)	1,210 x 340 x 716.5
				w/o Stand Approx. W x D x H (mm)	1,210 x 115 x 658
G-15	Weight			Net (Approx.)	41.5kg (91.5 lbs)
				Net w/o Stand (Approx.)	36.5kg (80.5 lbs)
				Gross (Approx.)	48.5kg (106.9 lbs)
G-16	Carton		Master Carton		No
				Content	--- Sets
				Material	--- / ---
				Dimensions W x D x H(mm)	---
				Description of Origin	---
			Gift Box	Material	Double/Brown
				Dimensions W x D x H(mm)	1,320 x 435 x 820
				Description of Origin	No
			Drop Test		Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces
				Height (cm)	25
			Container Stuffing		90 Sets/40' container
G-17	Material		Cabinet	Cabinet Front	ABS 94HB
				Cabinet Rear	Steel
			PCB	Non-Halogen	No
				Eyelet	Yes
G-18	Environment		Environmental standard requirement		Green procurement of ORION
			Pb-free		Phase3(Phase3A)
			WEEE		Yes

DISASSEMBLY INSTRUCTIONS

1. EXCHANGE METHOD OF PDP MODULE

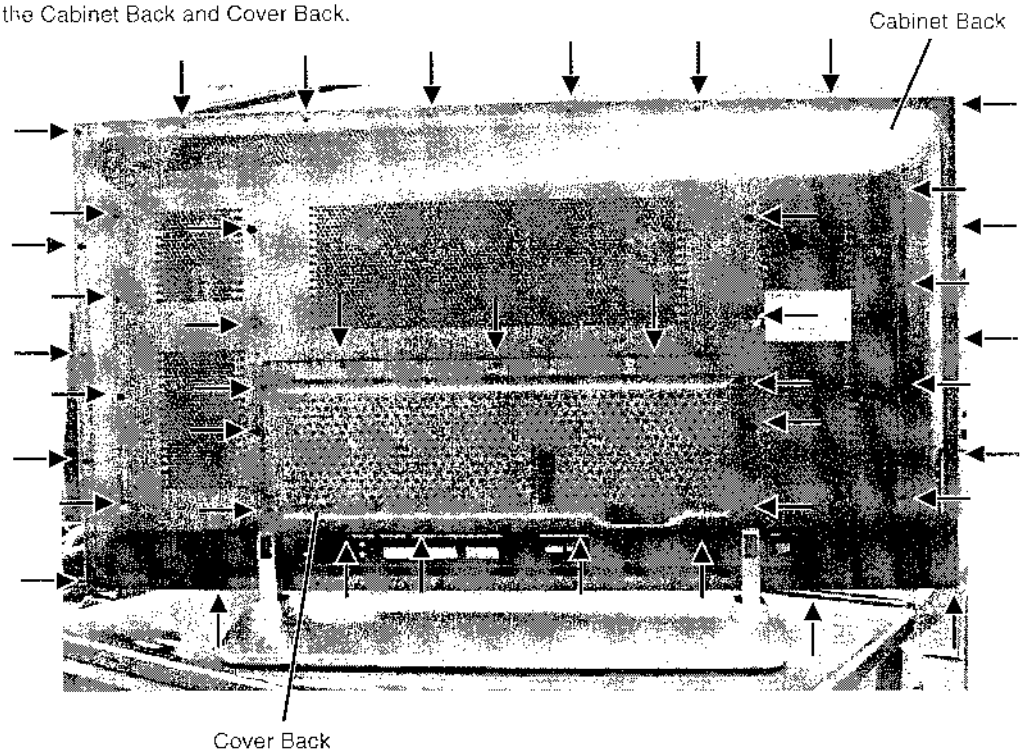
NOTE

1. Do handling with the PDP Module by 2 persons.

REMOVAL METHOD OF PDP MODULE

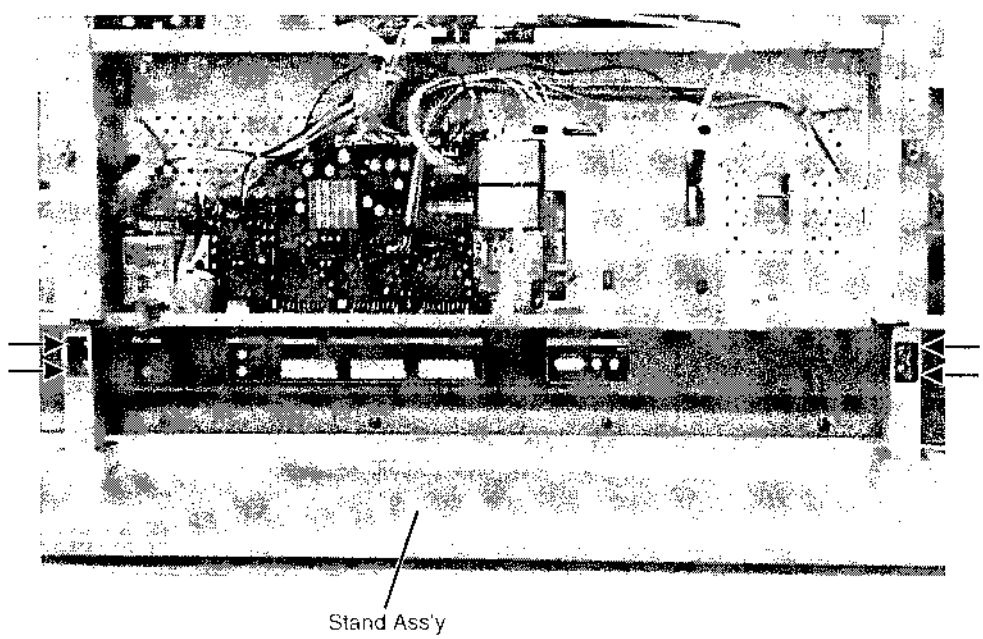
1-1: CABINET BACK/COVER BACK

1. Remove the screw.
2. Remove the Cabinet Back and Cover Back.



1-2: STAND ASS'Y

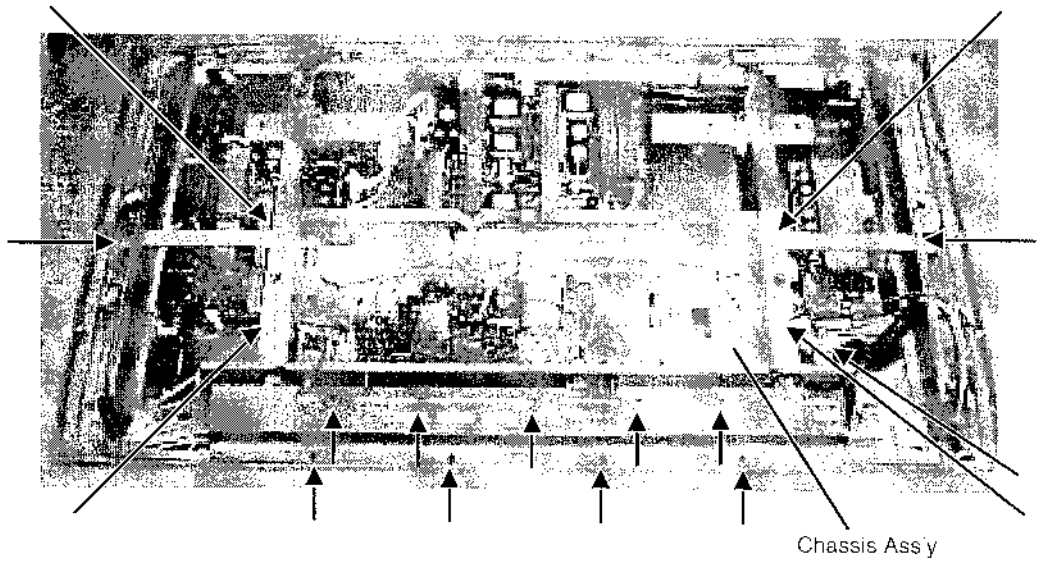
1. Spread a sheet on the plane table and place the PDP Module carefully with the panel face down.
2. Remove the screw.
3. Remove the Stand Ass'y.



DISASSEMBLY INSTRUCTIONS

1-3: CHASSIS BLOCK

1. Disconnect the connector.
2. Remove the screw.
3. Remove the Chassis Ass'y.

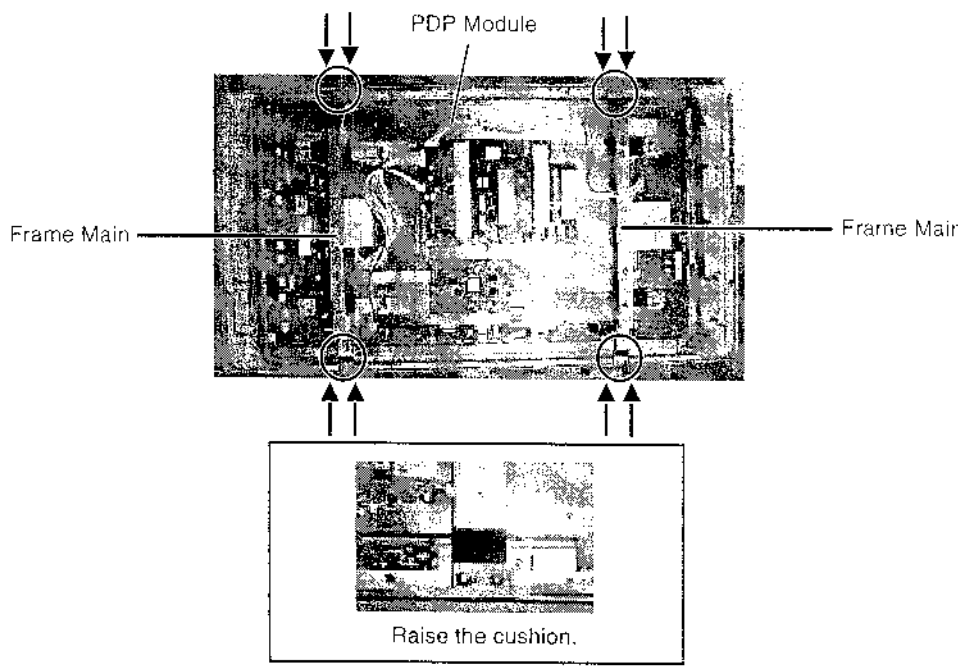


1-4: PDP MODULE

1. Remove the Tape.
2. Remove the screw.
3. Hold the Frame Main carefully and remove the PDP Module.

NOTE

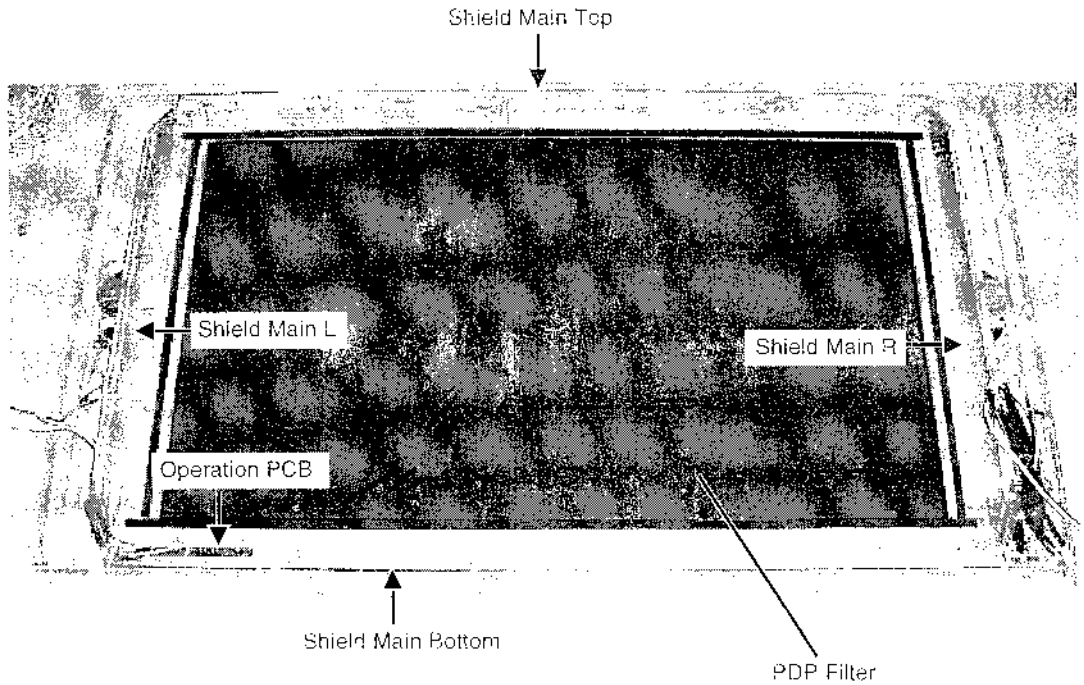
1. When remove the PDP Module, raise the cushion carefully so that having a scratch on the face.



DISASSEMBLY INSTRUCTIONS

1-5: PDP FILTER

1. Remove the Operation PCB.
2. Remove the screw.
3. Remove the Shield Main.
4. Remove the PDP Filter.



DISASSEMBLY INSTRUCTIONS

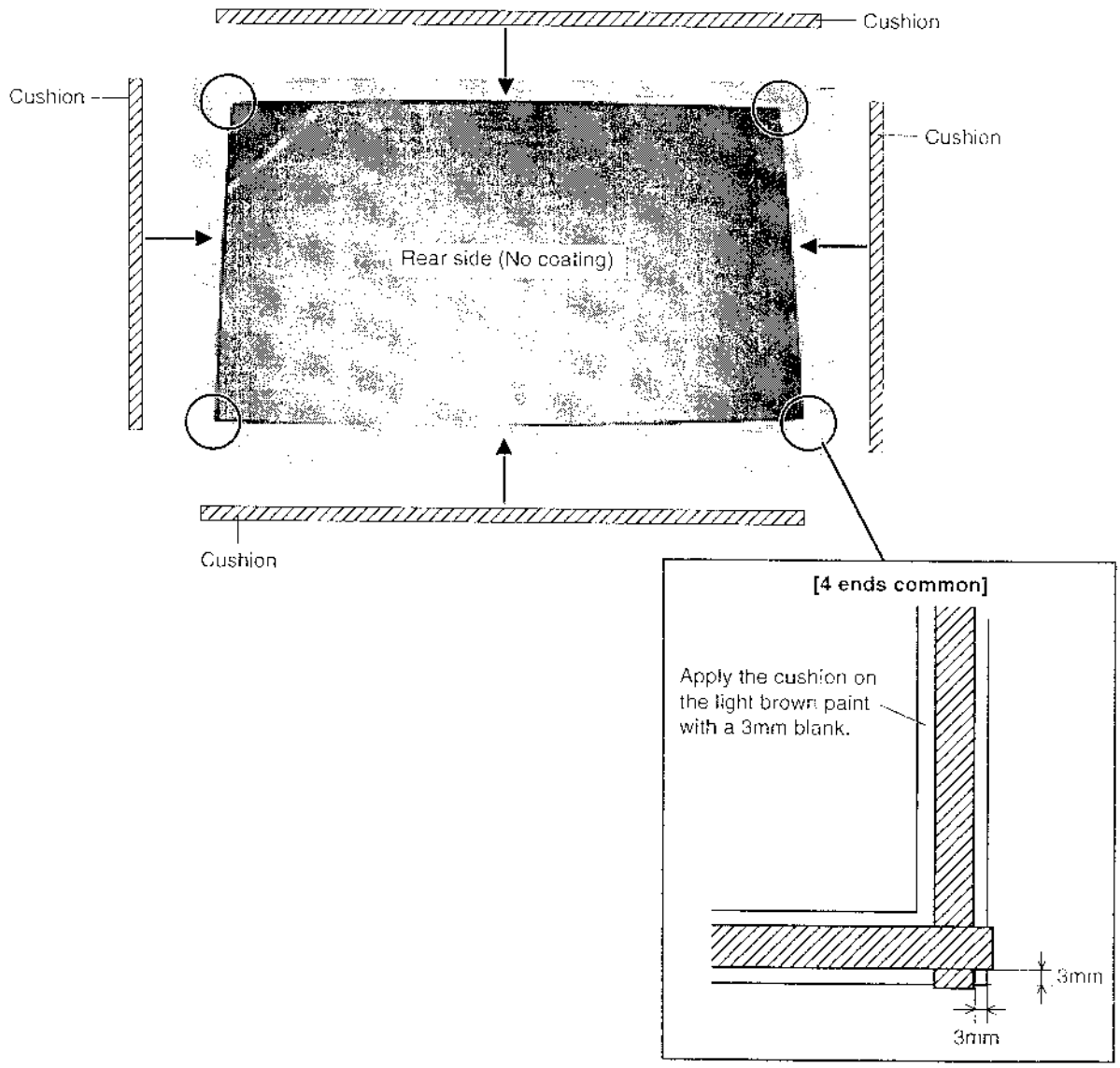
INSTALLATION METHOD OF PDP MODULE

NOTES FOR NEW PDP FILTER HANDLING

1. When you handle the PDP Filter you mast wear the gioves twice, because, you are to avoid soiling it by your sweat and dust.
2. When you lift the PDP Filter you put it between the palm of your hand. Don't pick up it with your fingers.
3. The back side of PDP Filter tends to set damaged. Since there is no coating. There fore, it put into the packing box at the time of delivery, without piling up even at the time of unused. Also, when you take out it from a packing box, be careful of the appearance which can not rub it.
4. When the surface becomes dirty, be the cloth out of which it is soft and dust does not come, and as you draw a circle, wipe it. When hard dirty, infiltrate ethanol etc. into cloth lightly and wipe. Don't use ethanol for the back side.
5. Do not apply it to direct sunshine so that the characteristic may change.
6. When you inspect the scratch and the dirt, the air bubble of the PDP Filter surface that use the light.

1-6: PDP FILTER (PREPARATION)

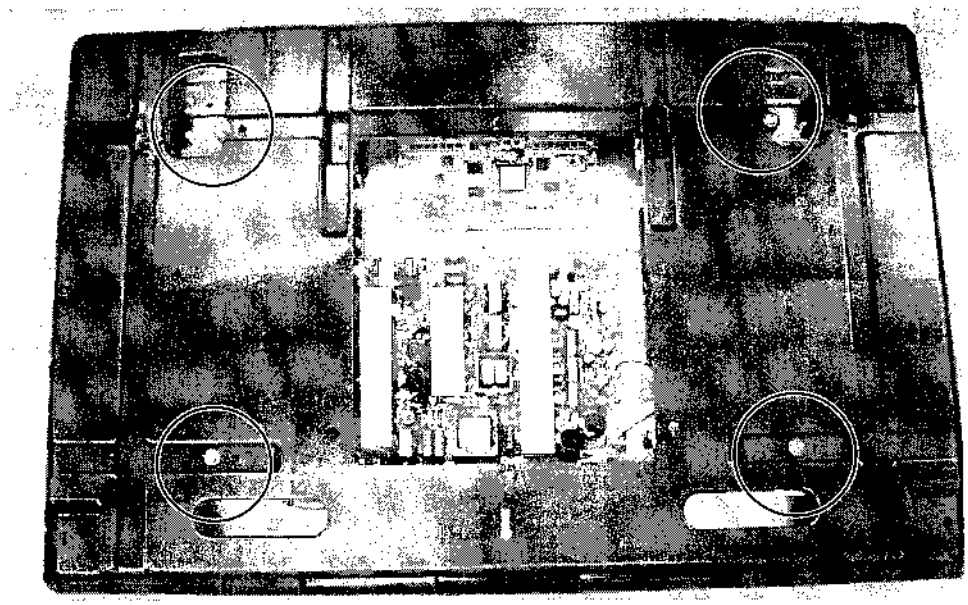
1. Fix the Cusion. (Order the cushion newly.)

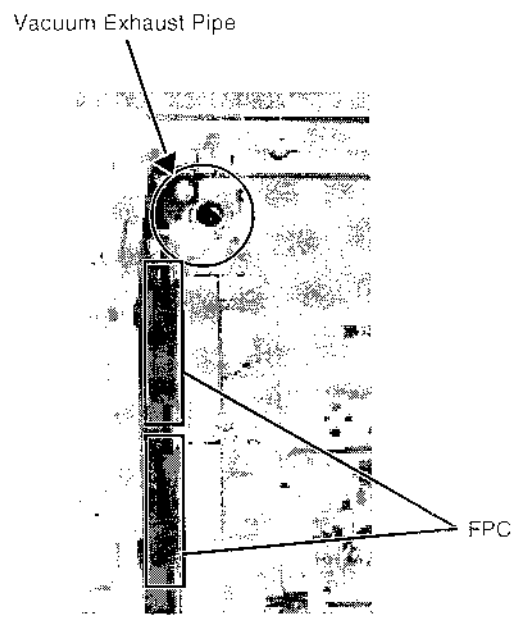


DISASSEMBLY INSTRUCTIONS

NOTES FOR NEW PDP MODULE HANDLING

1. Do the PDP Module Handling by 2 persons.
2. There is a step difference between the cover and PDP Module. So, when you remove the screws, place a cushion on it so that the PDP Module is being scratched. Then remove the screws carefully.
3. When you remove the cover, do not scratch the FPC on both ends of PDP Module.
4. Hold the four ends holder and be careful not to touch the glass area.
5. Take care for the damage of vacuum exhaust pipe due to a collision.
6. Moisture condensation may damage the PDP Module. So, leave it for 48 hours at the service room.
7. Re-use the cover, vinyl sheet, and screws for returning of the PDP Module.

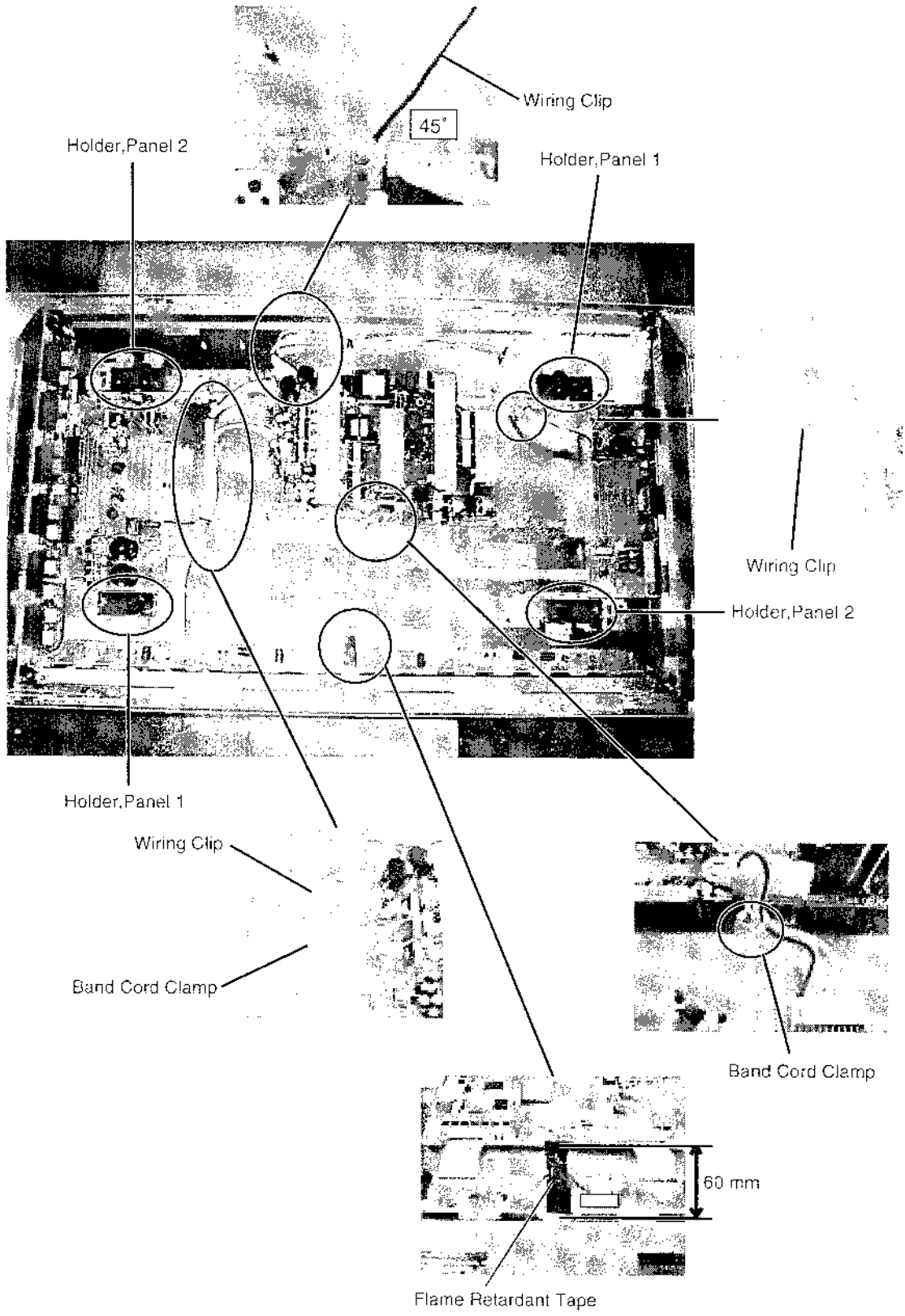




DISASSEMBLY INSTRUCTIONS

1-7: PDP MODULE (PREPARATION)

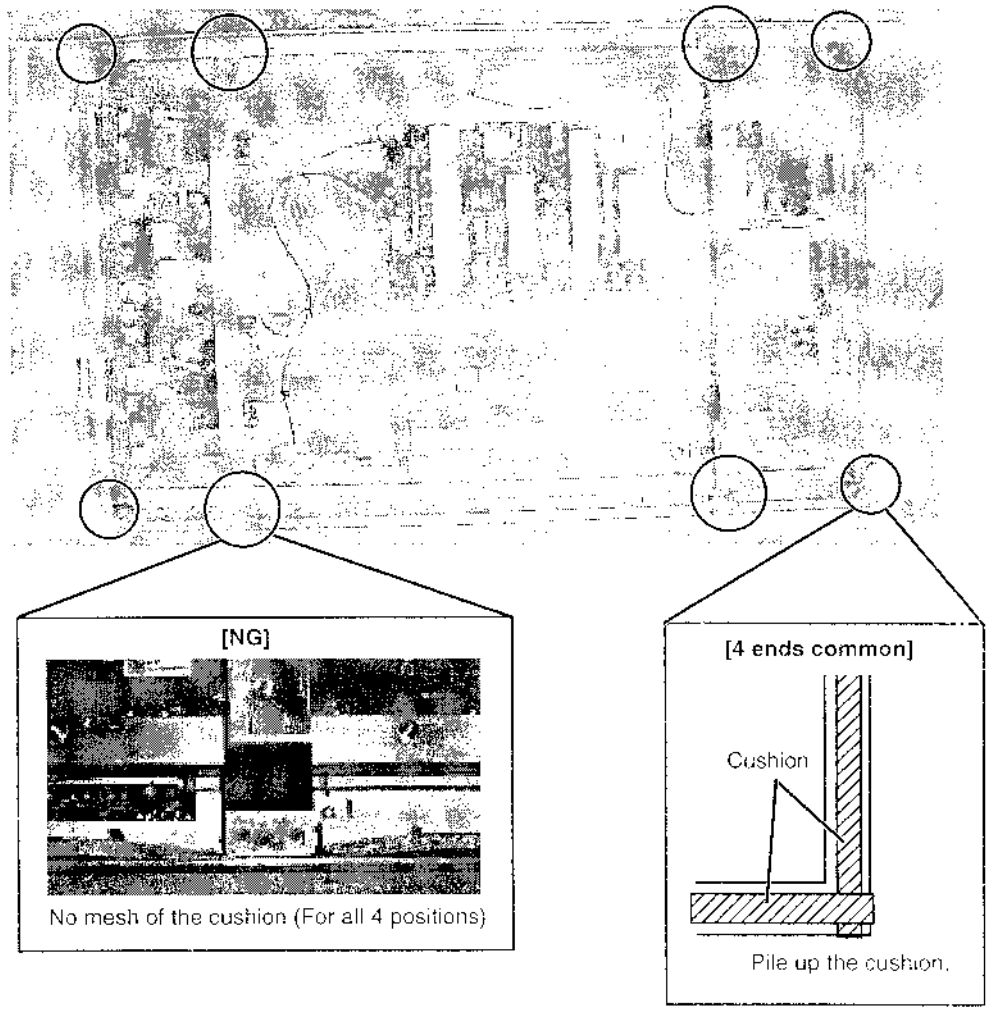
1. Remove the fixing screw of Power PCB. Then fix the Wiring Clip. (Use the clipson defective PDP Module)
2. Fix the Holder Panel 1/2/3/4. (Use the clipson defective PDP Module)
3. Fix the Wiring Clip. (Use the clipson defective PDP Module)



DISASSEMBLY INSTRUCTIONS

1-8: PDP MODULE

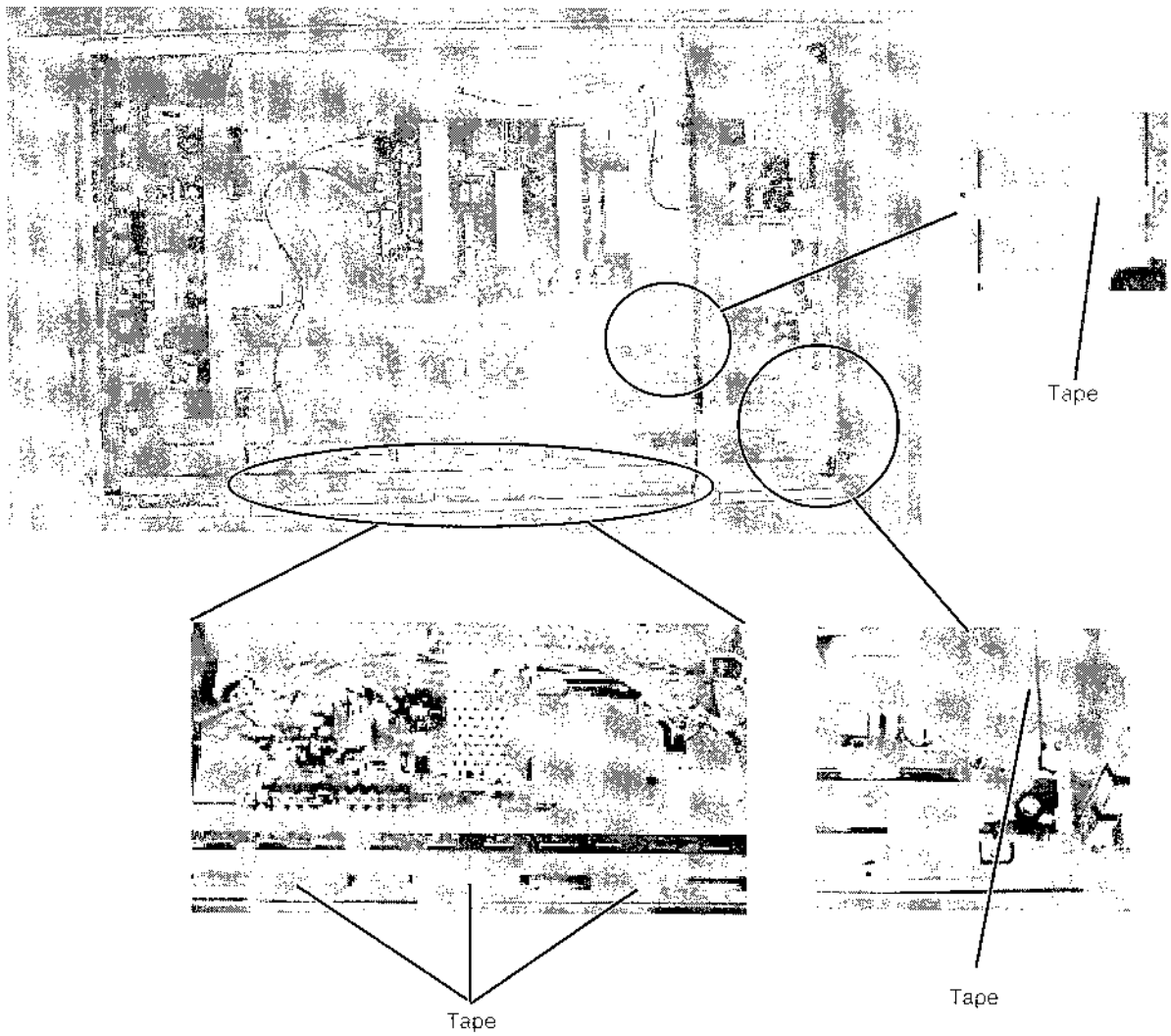
1. Fix the Frame Main. (Use the clipson defective PDP Module)
2. Install the PDP Filter on the set.
3. Install the Shield Main on the set.
4. Hold the Frame Main carefully and install the New PDP Module on the set.



DISASSEMBLY INSTRUCTIONS

1-9: TAPE

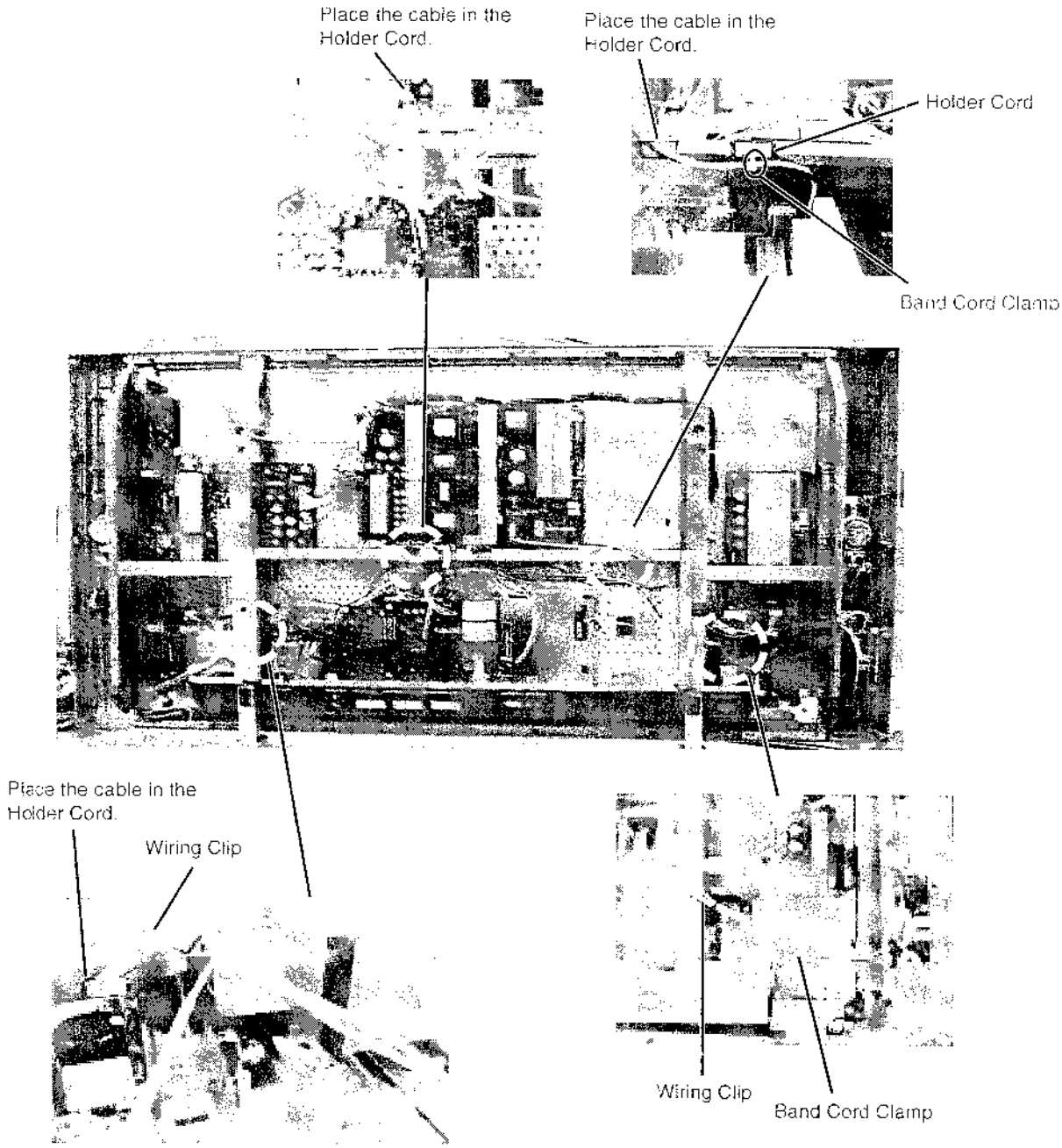
1. Stick the tapes on the position as shown the photo. (Order the tape newly.)



DISASSEMBLY INSTRUCTIONS

1-10: CHASSIS BLOCK

1. Do the wire fixing as shown the photo, then install the Chassis Ass'y.
2. Install the Stand Ass'y.



1-11: CABINET BACK/COVER BACK

1. Check if the wire handlings are correct.
2. Check if the cushion pastings are correct.
3. Check if the tape pastings are correct.
4. Install the Cabinet Back and Cover Back.

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.

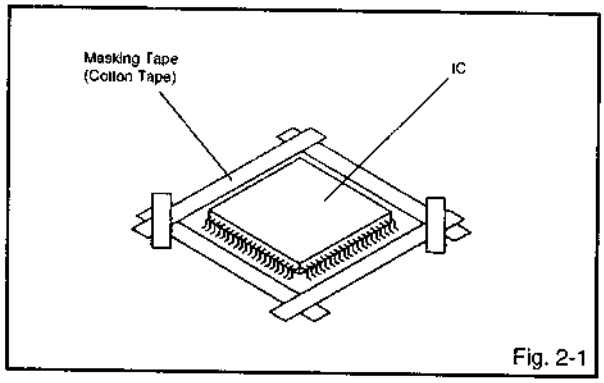


Fig. 2-1

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.

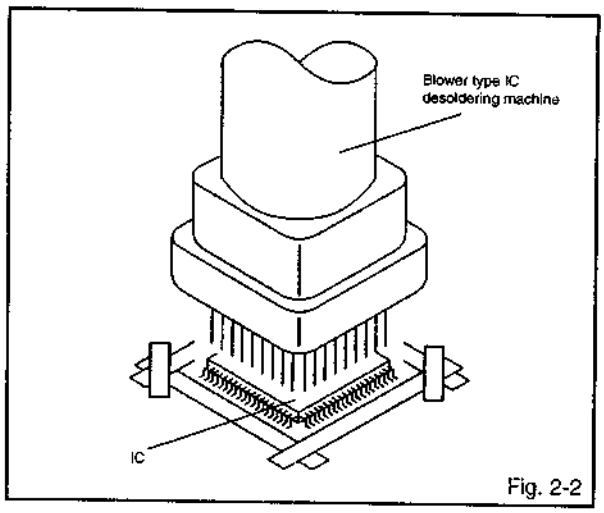


Fig. 2-2

3. When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using 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.

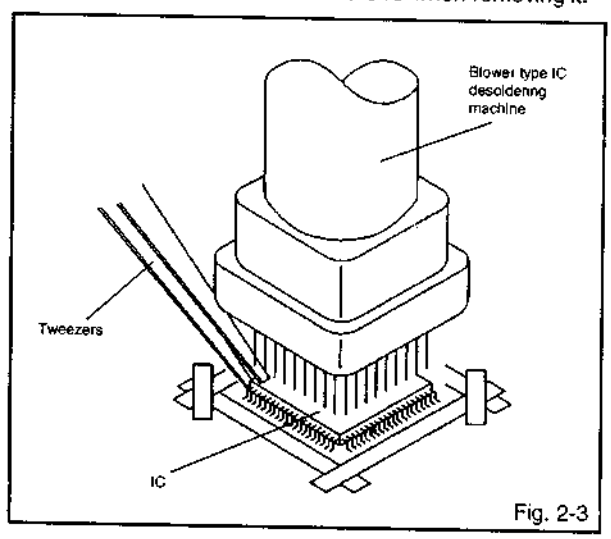


Fig. 2-3

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.

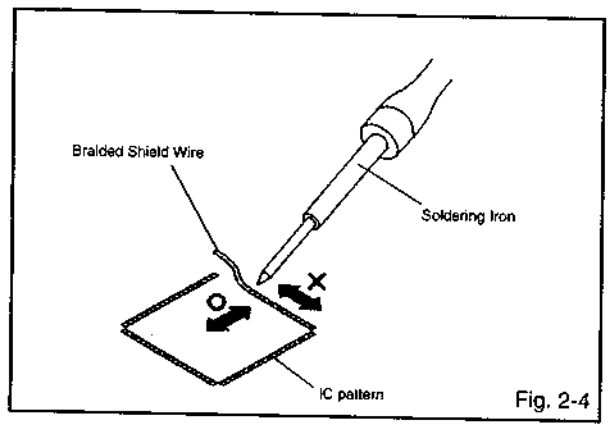


Fig. 2-4

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.)**

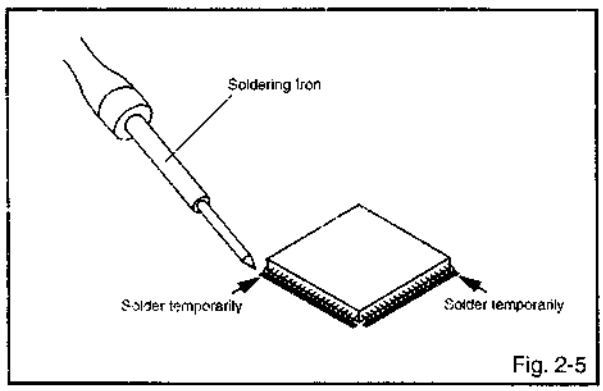


Fig. 2-5

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.)**

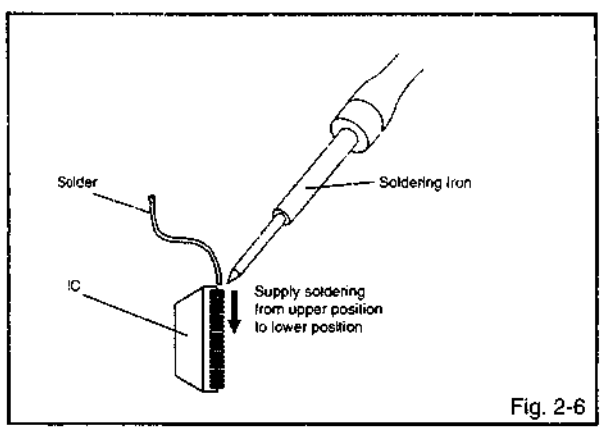


Fig. 2-6

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.

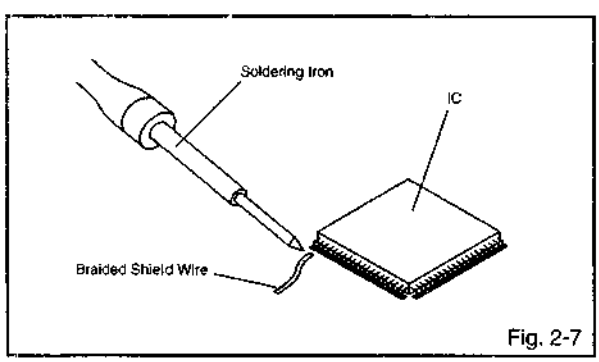


Fig. 2-7

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.)**

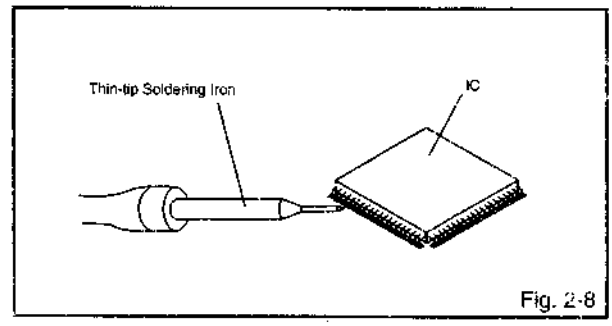


Fig. 2-8

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

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

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Reset the user setting items (PICTURE, AUDIO, VOLUME, LANGUAGE and NICAM AUDO/OFF) to the initial state for delivery.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
TV mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Refer to the "PREVENTIVE CHECKS AND SERVICE INTERVALS" (CONFIRMATION OF HOURS USED). Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

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 a factory initialization, the total hours is reset to "0".

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

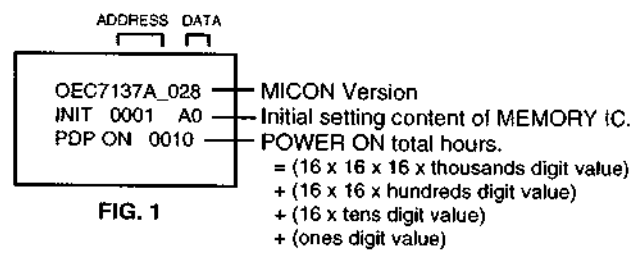


FIG. 1

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.

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

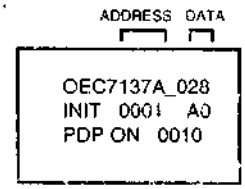


FIG. 1

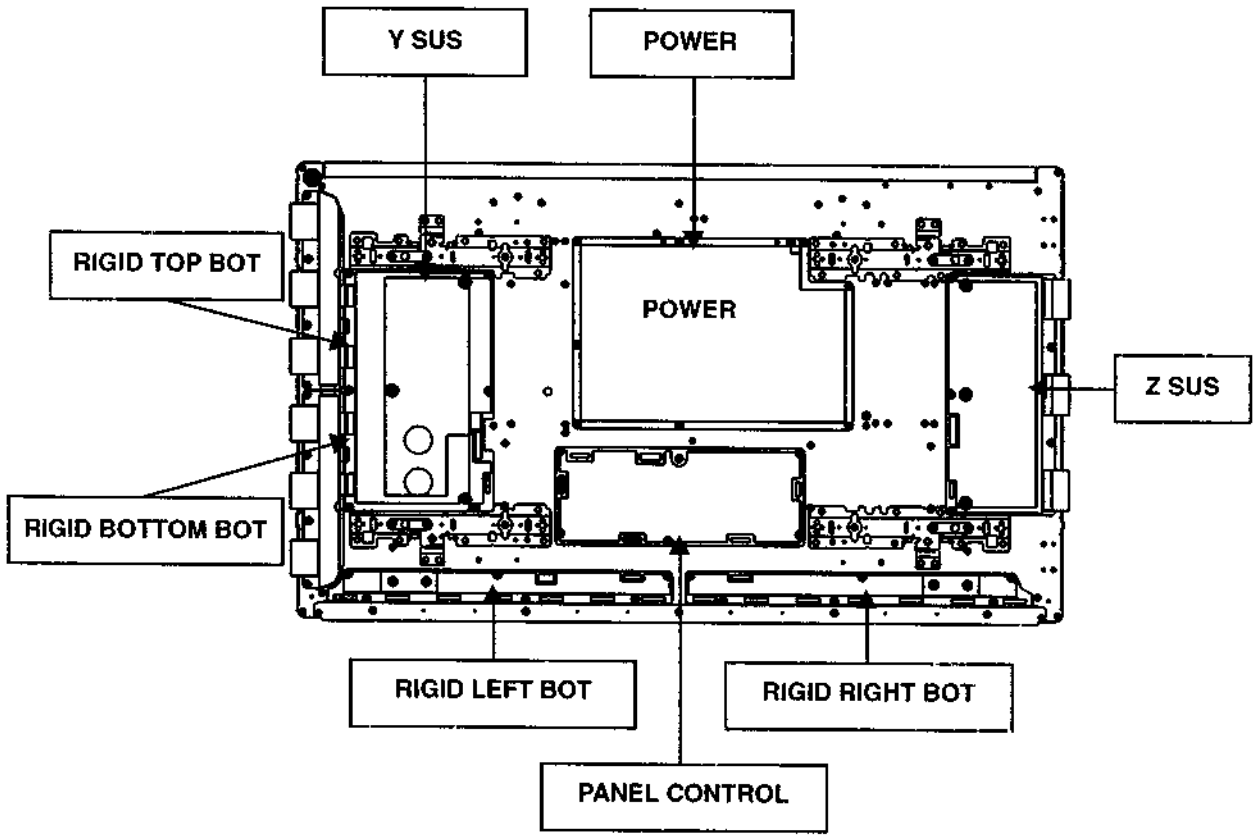
4. ADDRESS is now selected and should "blink". Using the RIGHT/LEFT button on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using RIGHT/LEFT button until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. 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.**
10. Turn on the POWER, and set to the TV mode.
11. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 2 seconds.
12. 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.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	...	A0	CA	E0	74	3C	02	E4	CA	EA	FE	F0	90	80	00	11
10	0D	00	00	00	EA	30	30	10	01	00	80	50	03	03	4F	08
20	00	00	7F	42	40	6D	4D	03	0B	30	00	00	00	00	00	00
30	00	00	00	00	00	00	00	00	00	00	00	00	00	98	00	20
40	00	01	00	FF	F0	F0	F8	00	00	00	00	00	00	00	00	0D
50	05	70	33	03	1F	24	41	44	5D	62	45	03	00	00	20	00
60	00	20	00	00	20	00	01	FE	8B	93	82	8A	FE	FF	3A	3D
70	3E	48	4A	4C	52	57	58	5A	5B	5D	5F	60	61	62	63	64
80	65	65	66	66	67	67	68	68	69	69	6A	6A	6B	6B	6C	6C
90	6D	6D	6E	6E	6F	6F	70	70	71	71	72	72	73	73	74	75
A0	3A	3D	3E	48	4A	4C	52	57	58	5A	5B	5D	5F	60	61	62
B0	63	64	65	65	66	66	67	67	68	68	69	69	6A	6A	6B	6B
C0	6C	6C	6D	6D	6E	6E	6F	6F	70	70	71	71	72	72	73	73
D0	74	75	E3	E3	E3	E3	E3	0F	08	00	01	00	2C	13	74	6C
E0	A4	D4	C1	3C	F6	8C	84	84	00	00	15	15	92	92	73	1E
F0	01	B7	01	00	60	86	0C	01	25	09	2A	09	00	00	30	06

Table 1

FUNCTION OF PCB



POWER	: A supplier which supplies voltage and current to each PCB and Panel.
Y SUS	: According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Y electrode through Scan Driver IC of RIGID TOP BOT and RIGID BOTTOM BOT.
Z SUS	: According to the timing provided from Panel Control, switches FETs and generates driving waveform signal which is provided to Z electrode through Connector.
PANEL CONTROL	: Controls Y electrode, Z electrode, and ADDRESS electrode.
RIGID LEFT BOT	: Generates Address electrode and supplies to Address electrode by Driver IC.
RIGID RIGHT BOT	: Generates Address electrode and supplies to Address electrode by Driver IC.
RIGID TOP BOT	: Generates Scan electrode and supplies to Y electrode by Driver IC.
RIGID BOTTOM BOT	: Generates Scan electrode and supplies to Y electrode by Driver IC.

ELECTRICAL ADJUSTMENTS

1. ADJUSTMENT PROCEDURE

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

CAUTION

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

Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

2. BASIC ADJUSTMENTS

On-Screen Display Adjustment

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

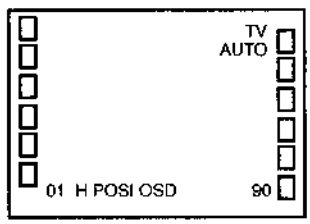


Fig. 2-1

3. Use the Channel UP/DOWN button or Channel button **(0-9)** on the remote control to select the options shown in **Fig. 2-2**.
4. Press the MENU button on the remote control to end the adjustments.
5. To display the adjustment screen for AV, HD-MI, COMPONENT and PC mode, press the INPUT SELECT button on the remote control to set to the AV, HD-MI, COMPONENT and PC 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
01	H POSI OSD	29	BRIGHT MAX
02	V POSI OSD	30	BRIGHT MIN
03	R DRIVE (N)	31	TINT
04	R CUT OFF (N)	35	CONTRAST CENTER
05	G DRIVE (N)	36	CONTRAST MAX
06	G CUT OFF (N)	37	CONTRAST MIN
07	B DRIVE (N)	38	COLOR CENT
08	B CUT OFF (N)	39	COLOR MAX
09	R DRIVE (C)	40	COLOR MIN
10	R CUT OFF (C)	41	H POSI TEXT
11	G DRIVE (C)	42	V POSI TEXT
12	G CUT OFF (C)	46	RGB BRIGHT CENT
13	B DRIVE (C)	47	RGB BRIGHT MAX
14	B CUT OFF (C)	48	RGB BRIGHT MIN
15	R DRIVE (W)	49	RGB CONTRAT CENT
16	R CUT OFF (W)	50	RGB CONTRAT MAX
17	G DRIVE (W)	51	RGB CONTRAT MIN
18	G CUT OFF (W)	52	RGB COLOR CENT
19	B DRIVE (W)	53	RGB COLOR MAX
20	B CUT OFF (W)	54	RGB COLOR MIN
21	H POSI 50Hz	58	RGB V POSI 50Hz
22	H POSI 60Hz	59	RGB V POSI 60Hz
23	V POSI 50Hz	60	RGB H POSI 50Hz
24	V POSI 60Hz	61	RGB H POSI 60Hz
28	BRIGHT CENT		

Fig. 2-2

2-1: CONTRAST CENT

1. Receive the monoscope pattern.(RF Input)
2. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
3. Check if the step No. CONT CENT is "125".
4. Receive a broadcast and check if the picture is normal.
5. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 1~2.
6. Check if the step No. CONT CENT is "100".
7. Receive a broadcast and check if the picture is normal.
8. Receive a RGB signal.
   (Ex. By the DVD PLAYER, it's the RGB mode setting.)
9. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(49)** on the remote control to select "RGB CONTRAST CENT".
10. Check if the step No. CONT CENT is "98".
11. Receive a broadcast and check if the picture is normal.
12. Playback the DVD disc. (480i input)
13. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
14. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(35)** on the remote control to select "CONTRAST CENTER".
15. Check if the step No. CONT CENT is "102".
16. Receive a broadcast and check if the picture is normal.

ELECTRICAL ADJUSTMENTS

2-2: WHITE BALANCE

1. Place the set in Aging Test for more than 15 minutes.
2. Receive the gray scale pattern from the Pattern Generator.
3. Press the INPUT SELECT button on the remote control to set to the AV 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 **(03)** on the remote control to select "R DRIVE".
6. Press the CH. UP/DOWN button on the remote control to select the "R CUTOFF", "G.DRIVE", "G CUTOFF", "B.DRIVE" and "B CUTOFF".
7. Adjust the VOL. UP/DOWN button on the remote control to whiten the R CUTOFF, G.DRIVE, G CUTOFF, B.DRIVE and B CUTOFF at each step tone sections equally.
8. Perform the above adjustments 6 and 7 until the white color is looked like a white.

2-3: 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 **(28)** on the remote control to select "BRIGHT 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.
7. Press the INPUT SELECT button on the remote control to set to the AV mode. Then perform the above adjustments 2~5.
8. Receive the monoscope pattern. (RGB signal Input)
9. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(46)** on the remote control to select "RGB BRIGHT CENT".
10. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.
11. Playback the DVD disc. (480i input)
12. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
13. Activate the adjustment mode display of **Fig. 1-1** and press the channel button **(23)** on the remote control to select "V POSI 50Hz".
14. Press the VOL. UP/DOWN button on the remote control until the white 2.7% is starting to be visible.

2-4: Confirmation of Fixed Value (Step N0.)

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

NO.	FUNCTION	TV		AV		RGB	
		ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
1	H POSI OSD	0x338/0x339	174	0x338/0x339	174	0x360/0x361	174
2	V POSI OSD	0x33A/0x33B	85	0x33A/0x33B	85	0x35E/0x35F	85
3	R DRIVE (N)	0x300/0x301	136	0x300/0x301	136	0x37E/0x37F	136
4	R CUT OFF (N)	0x302/0x303	125	0x302/0x303	125	0x380/0x381	125
5	G DRIVE (N)	0x304/0x305	128	0x304/0x305	128	0x382/0x383	128
6	G CUT OFF (N)	0x306/0x307	128	0x306/0x307	128	0x384/0x385	128
7	B DRIVE (N)	0x308/0x309	142	0x308/0x309	142	0x386/0x387	142
8	B CUT OFF (N)	0x30A/0x30B	131	0x308/0x309	131	0x388/0x389	131
9	R DRIVE (C)	0x366/0x367	129	0x366/0x367	129	0x38A/0x38B	129
10	R CUT OFF (C)	0x368/0x369	128	0x368/0x369	128	0x38C/0x38D	128
11	G DRIVE (C)	0x36A/0x36B	128	0x36A/0x36B	128	0x38E/0x38F	128
12	G CUT OFF (C)	0x36C/0x36D	128	0x36C/0x36D	128	0x390/0x391	128
13	B DRIVE (C)	0x36E/0x36F	147	0x36E/0x36F	147	0x392/0x393	147
14	B CUT OFF (C)	0x370/0x371	131	0x370/0x371	131	0x394/0x395	131
15	R DRIVE (W)	0x372/0x373	136	0x372/0x373	136	0x396/0x397	136
16	R CUT OFF (W)	0x374/0x375	128	0x374/0x375	128	0x398/0x399	128
17	G DRIVE (W)	0x376/0x377	128	0x376/0x377	128	0x39A/0x39B	128
18	G CUT OFF (W)	0x378/0x379	128	0x378/0x379	128	0x39C/0x39D	128
19	B DRIVE (W)	0x37A/0x37B	137	0x37A/0x37B	137	0x39E/0x39F	137
20	B CUT OFF (W)	0x37C/0x37D	132	0x37C/0x37D	132	0x3A0/0x3A1	132
21	H POSI 50Hz	0x30E/0x30F	325	0x30E/0x30F	325	0x422/0x423	325
22	H POSI 60Hz	0x310/0x311	302	0x310/0x311	302	0x424/0x425	302
23	V POSI 50Hz	0x312/0x313	85	0x312/0x313	85	0x41E/0x41F	85
24	V POSI 60Hz	0x314/0x315	78	0x314/0x315	78	0x420/0x421	78
28	BRIGHT CENT	0x31C/0x31D	137	0x3A2/0x3A3	137	...	...
29	BRIGHT MAX	0x31E/0x31F	150	0x3A4/0x3A5	150	...	...
30	BRIGHT MIN	0x320/0x321	70	0x3A6/0x3A7	70	...	...
31	TINT	0x322/0x323	128/135	0x3A8/0x3A9/ 0x3BC/0x3BD	128/135	0x362/0x363/ 0x364/0x365	140
35	CONTRAST CENTER	0x32A/0x32B	103	0x3B0/0x3B1	103	...	...
36	CONTRAST MAX	0x32C/0x32D	135	0x3B2/0x3B3	135	...	...
37	CONTRAST MIN	0x32E/0x32F	60	0x3B4/0x3B5	60	...	...
38	COLOR CENT	0x330/0x331	70	0x3B6/0x3B7	70	...	...
39	COLOR MAX	0x332/0x333	120	0x3B8/0x3B9	120	...	...
40	COLOR MIN	0x334/0x335	0	0x3BA/0x3BB	0	...	...
41	H POSI TEXT	0x33C/0x33D	180	H POSI TEXT	180	...	180
42	V POS I TEXT	0x33E/0x33F	80	V POSI TEXT	80	...	80
46	RGB BRIGHT CENT	...	...	...	...	0x346/0x347	137
47	RGB BRIGHT MAX	...	...	...	...	0x348/0x349	150
48	RGB BRIGHT MIN	...	...	...	...	0x34A/0x34B	70
49	RGB CONTRAT CENT	...	...	...	...	0x34C/0x34D	123
50	RGB CONTRAT MAX	...	...	...	...	0x34E/0x34F	135
51	RGB CONTRAT MIN	...	...	...	...	0x350/0x351	60
52	RGB COLOR CENT	...	...	...	...	0x352/0x353	70
53	RGB COLOR MAX	...	...	...	...	0x354/0x355	120
54	RGB COLOR MIN	...	...	...	...	0x356/0x357	0
58	RGB V POSI 50Hz	...	...	...	...	0x41E/0x41F	84
59	RGB V POSI 60Hz	...	...	...	...	0x420/0x421	73
60	RGB H POSI 50Hz	...	...	...	...	0x422/0x423	327
61	RGB H POSI 60Hz	...	...	...	...	0x424/0x425	300

(TV/AV/RGB/CS/PC/HD-MI)

CS							
480i		480p		720p		1080i	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174	...	174	...	174
...	85	...	85	...	85	...	85
0x96C/0x96D	136	0x990/0x991	136	0x990/0x991	136	0x9B4/0x9B5	136
0x96E/0x96F	125	0x992/0x993	125	0x992/0x993	125	0x9B6/0x9B7	125
0x970/0x971	128	0x994/0x995	128	0x994/0x995	128	0x9B8/0x9B9	128
0x972/0x973	128	0x996/0x997	128	0x996/0x997	128	0x9BA/0x9BB	128
0x974/0x975	142	0x998/0x999	142	0x998/0x999	142	0x9BC/0x9BD	142
0x976/0x977	131	0x99A/0x99B	131	0x99A/0x99B	131	0x9BE/0x9BF	131
0x978/0x979	129	0x99C/0x99D	129	0x99C/0x99D	129	0x9C0/0x9C1	129
0x97A/0x97B	128	0x99E/0x99F	128	0x99E/0x99F	128	0x9C2/0x9C3	128
0x97C/0x97D	128	0x9A0/0x9A1	128	0x9A0/0x9A1	128	0x9C4/0x9C5	128
0x97E/0x97F	128	0x9A2/0x9A3	128	0x9A2/0x9A3	128	0x9C6/0x9C7	128
0x980/0x981	147	0x9A4/0x9A5	147	0x9A4/0x9A5	147	0x9C8/0x9C9	147
0x982/0x983	131	0x9A6/0x9A7	131	0x9A6/0x9A7	131	0x9CA/0x9CB	131
0x984/0x985	136	0x9A8/0x9A9	136	0x9A8/0x9A9	136	0x9CC/0x9CD	136
0x986/0x987	128	0x9AA/0x9AB	128	0x9AA/0x9AB	128	0x9CE/0x9CF	128
0x988/0x989	128	0x9AC/0x9AD	128	0x9AC/0x9AD	128	0x9D0/0x9D1	128
0x98A/0x98B	128	0x9AE/0x9AF	128	0x9AE/0x9AF	128	0x9D2/0x9D3	128
0x98C/0x98D	137	0x9B0/0x9B1	137	0x9B0/0x9B1	137	0x9D4/0x9D5	137
0x98E/0x98F	132	0x9B2/0x9B3	132	0x9B2/0x9B3	132	0x9D6/0x9D7	132
0xAB8/0xAB9	330	0xAC0/0xAC1	160	0xAC8/0xAC9	352	0xAD0/0xAD1	311
0xABA/0xABB	304	0xAC2/0xAC3	144	0xACA/0xACB	340	0xAD2/0xAD3	295
0xABC/0xABD	85	0xAC4/0xAC5	86	0xACC/0xACD	50	0xAD4/0xAD5	46
0xABE/0xABF	73	0xAC6/0xAC7	80	0xACE/0xACF	46	0xAD6/0xAD7	79
0xA48/0xA49	137	0xA64/0xA65	137	0xA80/0xA81	137	0xA9C/0xA9D	137
0xA4A/0xA4B	150	0xA66/0xA67	150	0xA82/0xA83	150	0xA9E/0xA9F	150
0xA4C/0xA4D	70	0xA68/0xA69	70	0xA84/0xA85	70	0xAA0/0xAA1	70
0xA4E/0xA4F/0xA62/0xA63	140	0xA6A/0xA6B/0xA7E/0xA7F	140	0xA86/0xA87/0xA9A/0xA9B	140	0xAA2/0xAA3/0xAB6/0xAB7	140
0xA56/0xA57	103	0xA72/0xA73	103	0xA8E/0xA8F	103	0xAAA/0xAAB	103
0xA58/0xA59	135	0xA74/0xA75	135	0xA90/0xA91	135	0xAAC/0xAAD	135
0xA5A/0xA5B	60	0xA76/0xA77	60	0xA92/0xA93	60	0xAAE/0xAAF	60
0xA5C/0xA5D	60	0xA78/0xA79	60	0xA94/0xA95	60	0xAB0/0xAB1	60
0xA5E/0xA5F	120	0xA7A/0xA7B	120	0xA96/0xA97	120	0xAB2/0xAB3	120
0xA60/0xA61	0	0xA7C/0xA7D	0	0xA98/0xA99	0	0xAB4/0xAB5	0
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...

HD-MI							
480i		480p		720p		1080i	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174	...	174	...	174
...	85	...	85	...	85	...	85
0x494/0x495	136	0x4B8/0x4B9	136	0x4B8/0x4B9	136	0x4DC/0x4DD	136
0x496/0x497	125	0x4BA/0x4BB	125	0x4BA/0x4BB	125	0x4DE/0x4DF	125
0x498/0x499	128	0x4BC/0x4BD	128	0x4BC/0x4BD	128	0x4E0/0x4E1	128
0x49A/0x49B	128	0x4BE/0x4BF	128	0x4BE/0x4BF	128	0x4E2/0x4E3	128
0x49C/0x49D	142	0x4C0/0x4C1	142	0x4C0/0x4C1	142	0x4E4/0x4E5	142
0x49E/0x49F	131	0x4C2/0x4C3	131	0x4C2/0x4C3	131	0x4E6/0x4E7	131
0x4A0/0x4A1	129	0x4C4/0x4C5	129	0x4C4/0x4C5	129	0x4E8/0x4E9	129
0x4A2/0x4A3	128	0x4C6/0x4C7	128	0x4C6/0x4C7	128	0x4EA/0x4EB	128
0x4A4/0x4A5	128	0x4C8/0x4C9	128	0x4C8/0x4C9	128	0x4EC/0x4ED	128
0x4A6/0x4A7	128	0x4CA/0x4CB	128	0x4CA/0x4CB	128	0x4EE/0x4EF	128
0x4A8/0x4A9	147	0x4CC/0x4CD	147	0x4CC/0x4CD	147	0x4F0/0x4F1	147
0x4AA/0x4AB	131	0x4CE/0x4CF	131	0x4CE/0x4CF	131	0x4F2/0x4F3	131
0x4AC/0x4AD	136	0x4D0/0x4D1	136	0x4D0/0x4D1	136	0x4F4/0x4F5	136
0x4AE/0x4AF	128	0x4D2/0x4D3	128	0x4D2/0x4D3	128	0x4F6/0x4F7	128
0x4B0/0x4B1	128	0x4D4/0x4D5	128	0x4D4/0x4D5	128	0x4F8/0x4F9	128
0x4B2/0x4B3	128	0x4D6/0x4D7	128	0x4D6/0x4D7	128	0x4FA/0x4FB	128
0x4B4/0x4B5	137	0x4D8/0x4D9	137	0x4D8/0x4D9	137	0x4FC/0x4FD	137
0x4B6/0x4B7	132	0x4DA/0x4DB	132	0x4DA/0x4DB	132	0x4FE/0x4FF	132
0x5C4/0x5C5	320	0x5CC/0x5CD	158	0x5D4/0x5D5	308	0x5DC/0x5DD	261
0x5C6/0x5C7	286	0x5CE/0x5CF	144	0x5D6/0x5D7	296	0x5DE/0x5DF	249
0x5C8/0x5C9	76	0x5D0/0x5D1	81	0x5D8/0x5D9	48	0x5E0/0x5E1	42
0x5CA/0x5CB	79	0x5D2/0x5D3	74	0x5DA/0xSDB	45	0x5E2/0x5E3	38
0x570/0x571	137	0x58C/0x58D	137	0x5A8/0x5A9	137	0x3BE/0x3BF	137
0x572/0x573	150	0x58E/0x58F	150	0x5AA/0x5AB	150	0x3C0/0x3C1	150
0x574/0x575	70	0x590/0x591	70	0x5AC/0x5AD	70	0x3C2/0x3C3	70
0x576/0x577/ 0x58A/0x58B	140	0x592/0x593/ 0x5A6/0x5A7	140	0x5AE/0x5AF/ 0x5C2/0x5C3	140	0x3C4/0x3C5/ 0x3D8/0x3D9	140
0x57E/0x57F	103	0x59A/0x59B	103	0x5B6/0x5B7	103	0x3CC/0x3CD	103
0x580/0x581	135	0x59C/0x59D	135	0x5B8/0x5B9	135	0x3CE/0x3CF	135
0x582/0x583	60	0x59E/0x59F	60	0x5BA/0x5BB	60	0x3D0/0x3D1	60
0x584/0x585	60	0x5A0/0x5A1	60	0x5BC/0x5BD	60	0x3D2/0x3D3	60
0x586/0x587	120	0x5A2/0x5A3	120	0x5BE/0x5BF	120	0x3D4/0x3D5	120
0x588/0x589	0	0x5A4/0x5A5	0	0x5C0/0x5C1	0	0x3D6/0x3D7	0
...	...	...	...	...	...	...	...
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PC							
VGA (640 X 480)		SVGA (800 X 600)		WVGA (848 X 480)		XGA(1024 X 768)	
ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174	...	174	...	174
...	85	...	85	...	85	...	85
0x3F6/0x3F7	128	...	128	...	128	...	128
...	...	...	...	...	...	...	...
0x3FA/0x3FB	128	...	128	...	128	...	128
...	...	...	...	...	...	...	...
0x3FE/0x3FF	128	...	128	...	128	...	128
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...
0x3DA/0x3DB	49	0x3DE/0x3DF	215	0x3E6/0x3E7	111	0x3E0/0x3E1	158
...	...	...	...	...	...	...	...
0x3E8/0x3E9	39	0x3EC/0x3ED	24	0x3F4/0x3F5	25	0x3EE/0x3EF	22
0x402/0x403	115	...	115	...	115	...	115
0x404/0x405	150	...	150	...	150	...	150
0x406/0x407	70	...	70	...	70	...	70
...	...	...	...	...	...	...	...
0x410/0x411	128	...	128	...	128	...	128
0x412/0x413	180	...	180	...	180	...	180
0x414/0x415	60	...	60	...	60	...	60
...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...

PC			
WVGA 1280 X 720)		WXGA(1280 X 768)	
ADDRESS	Step No.	ADDRESS	Step No.
...	174	...	174
...	85	...	85
...	128	...	128
...	...	...	...
...	128	...	128
...	...	...	...
...	128	...	128
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
0x3E2/0x3E3	186	0x3E4/0x3E5	186
...	...	...	...
0x3F0/0x3F1	18	0x3F2/0x3F3	18
...	115	...	115
...	150	...	150
...	70	...	70
...	...	...	...
...	128	...	128
...	180	...	180
...	60	...	60
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
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...	...	...	...
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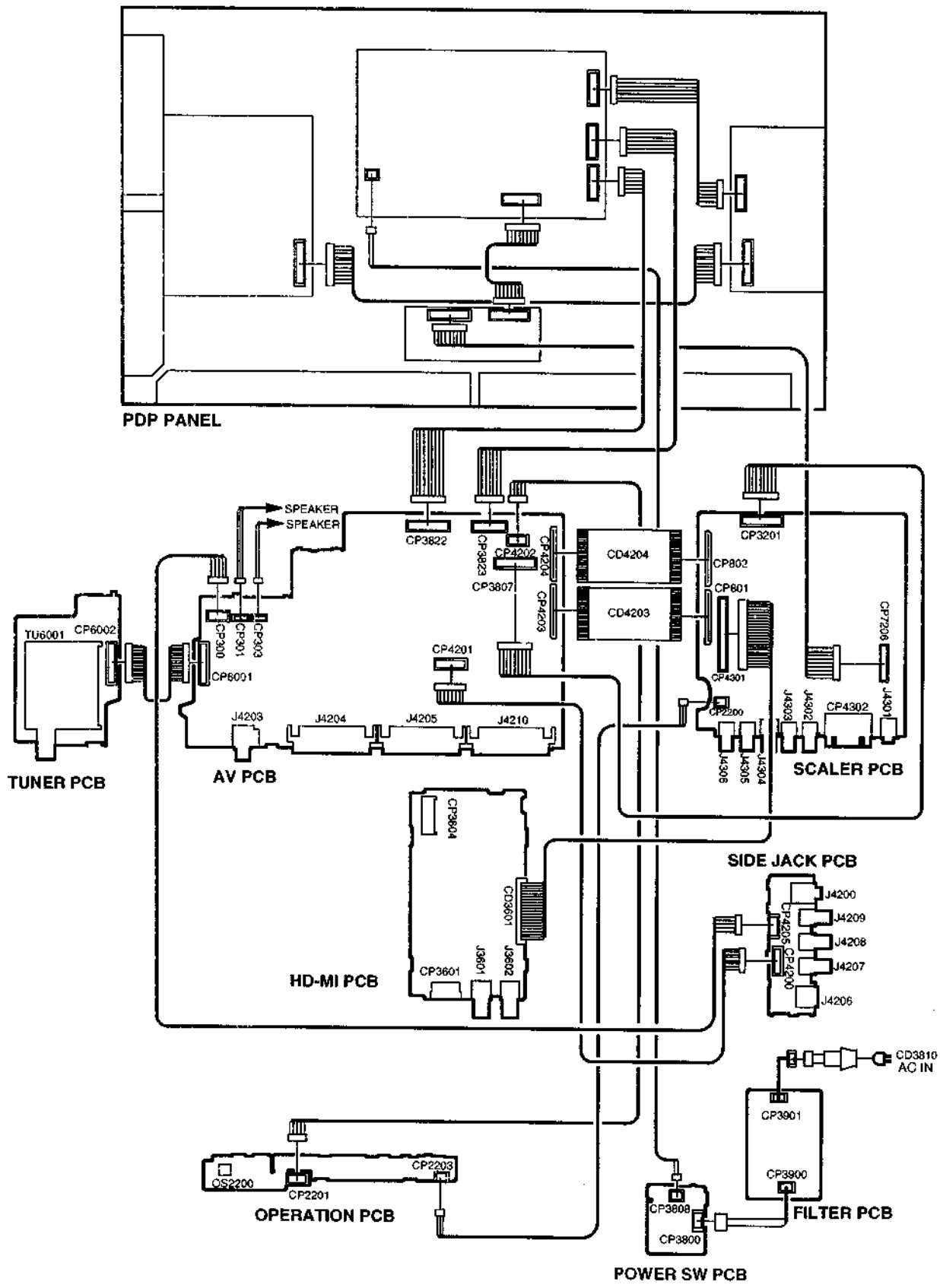
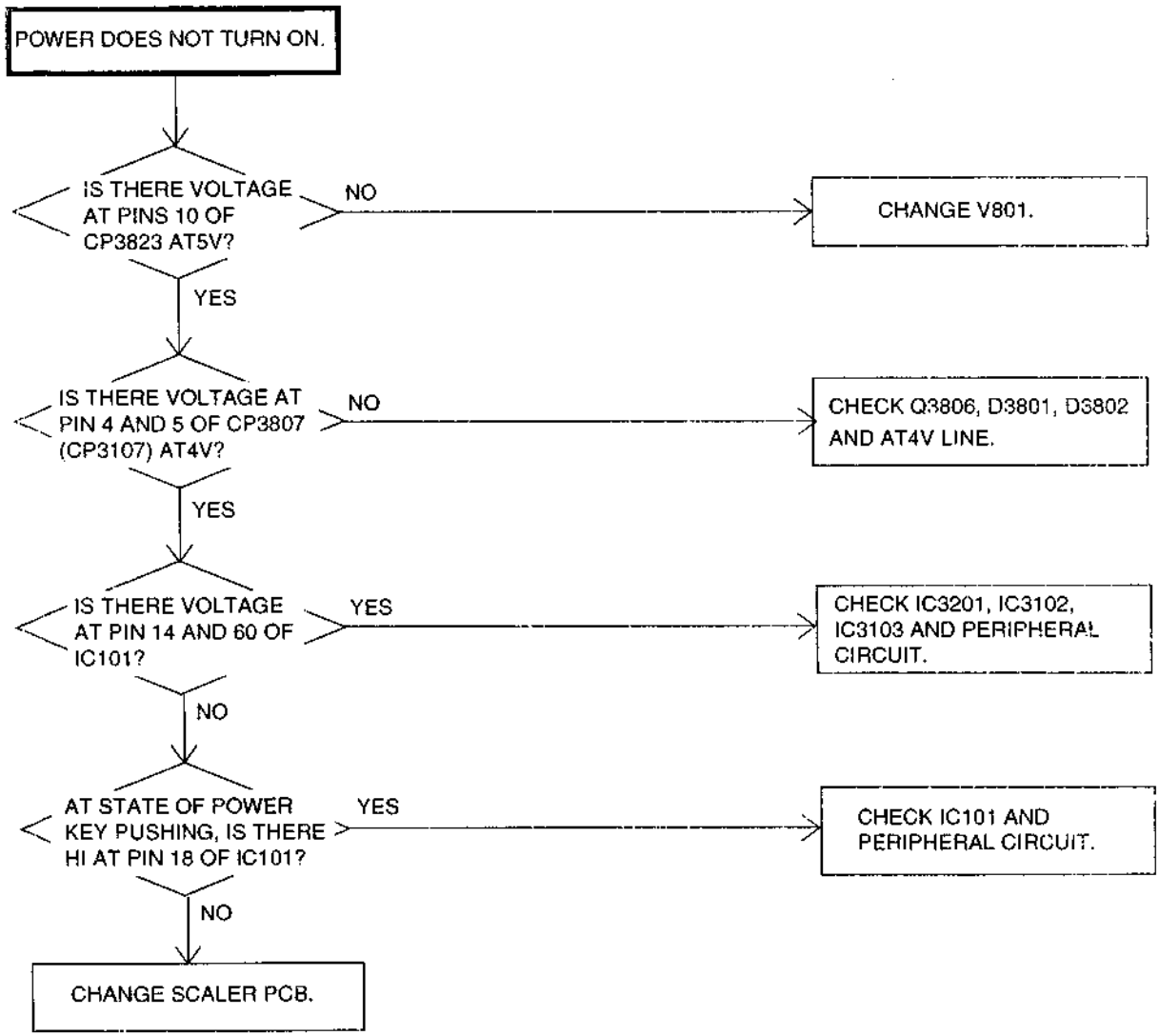
...	...	...	...
...	...	...	...
...	...	...	...

ELECTRICAL ADJUSTMENTS

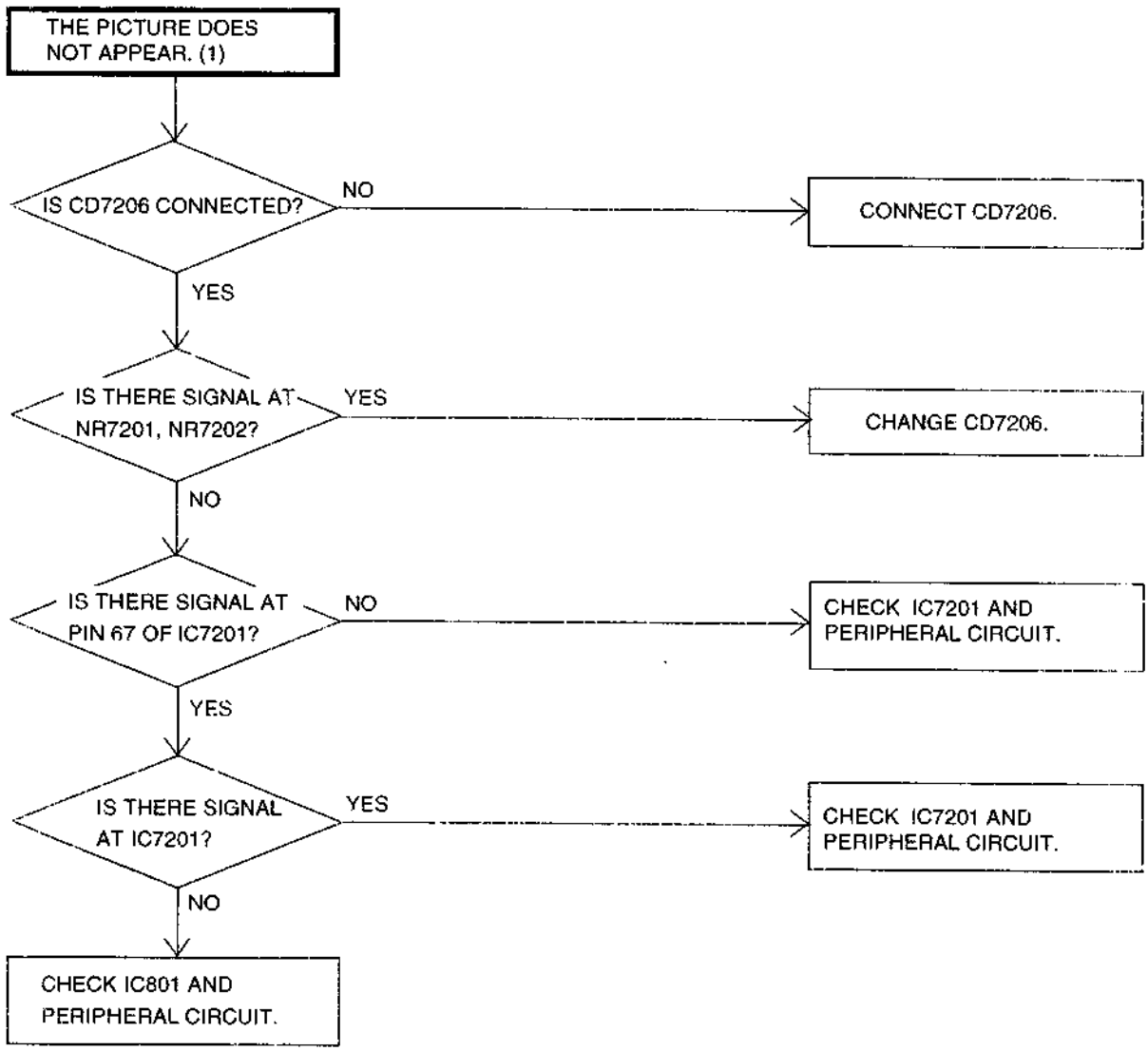
3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



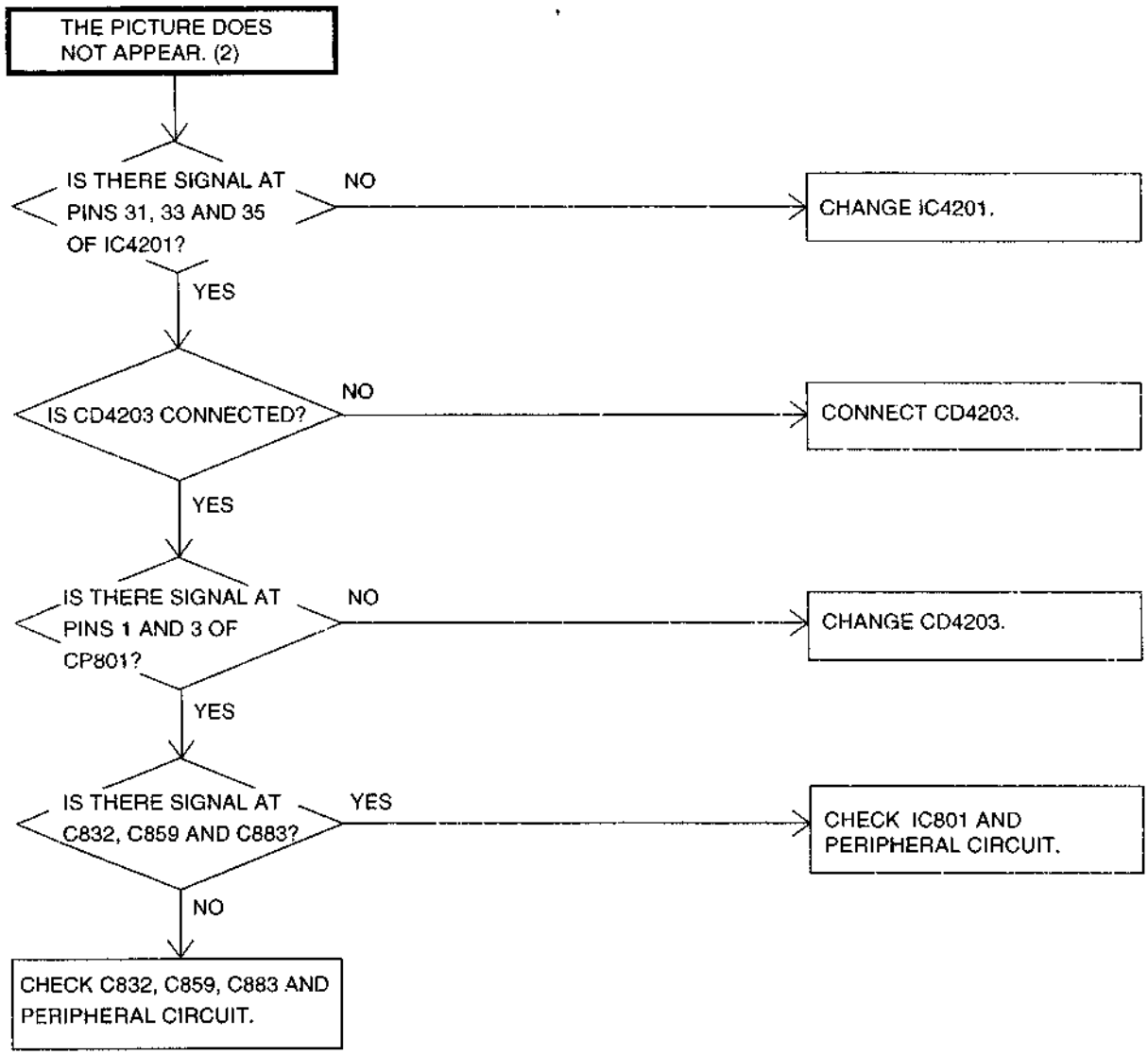
TROUBLESHOOTING GUIDE



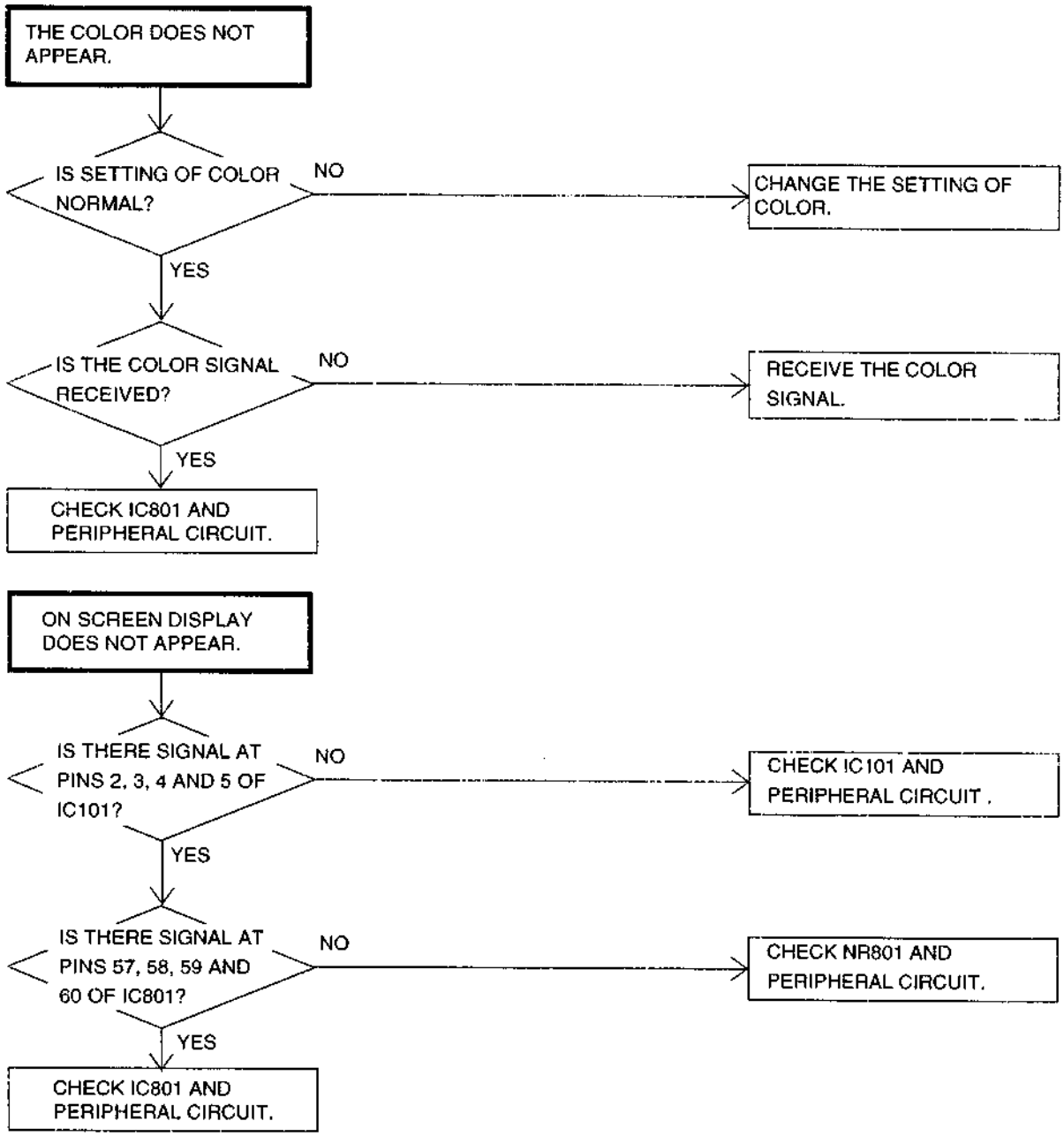
TROUBLESHOOTING GUIDE



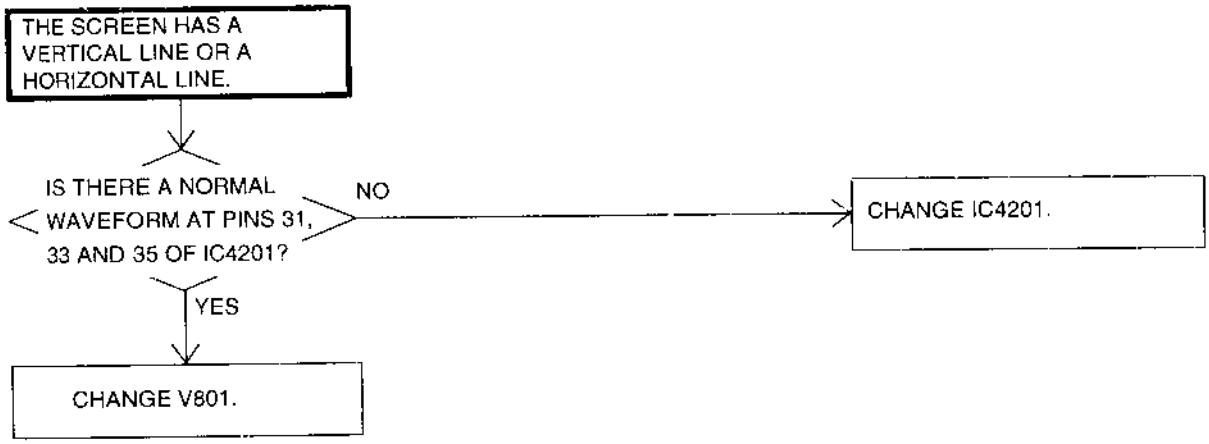
TROUBLESHOOTING GUIDE



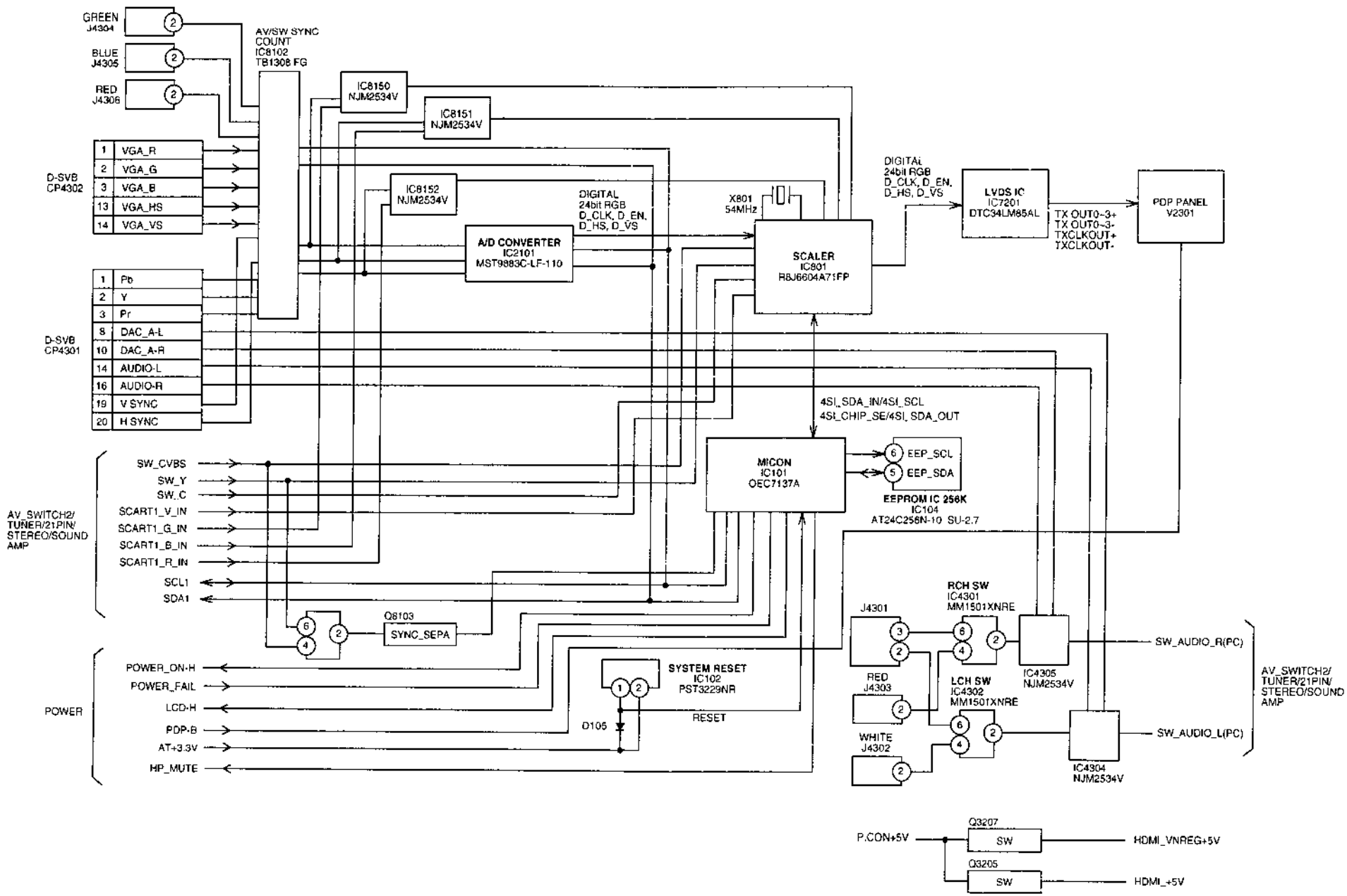
TROUBLESHOOTING GUIDE



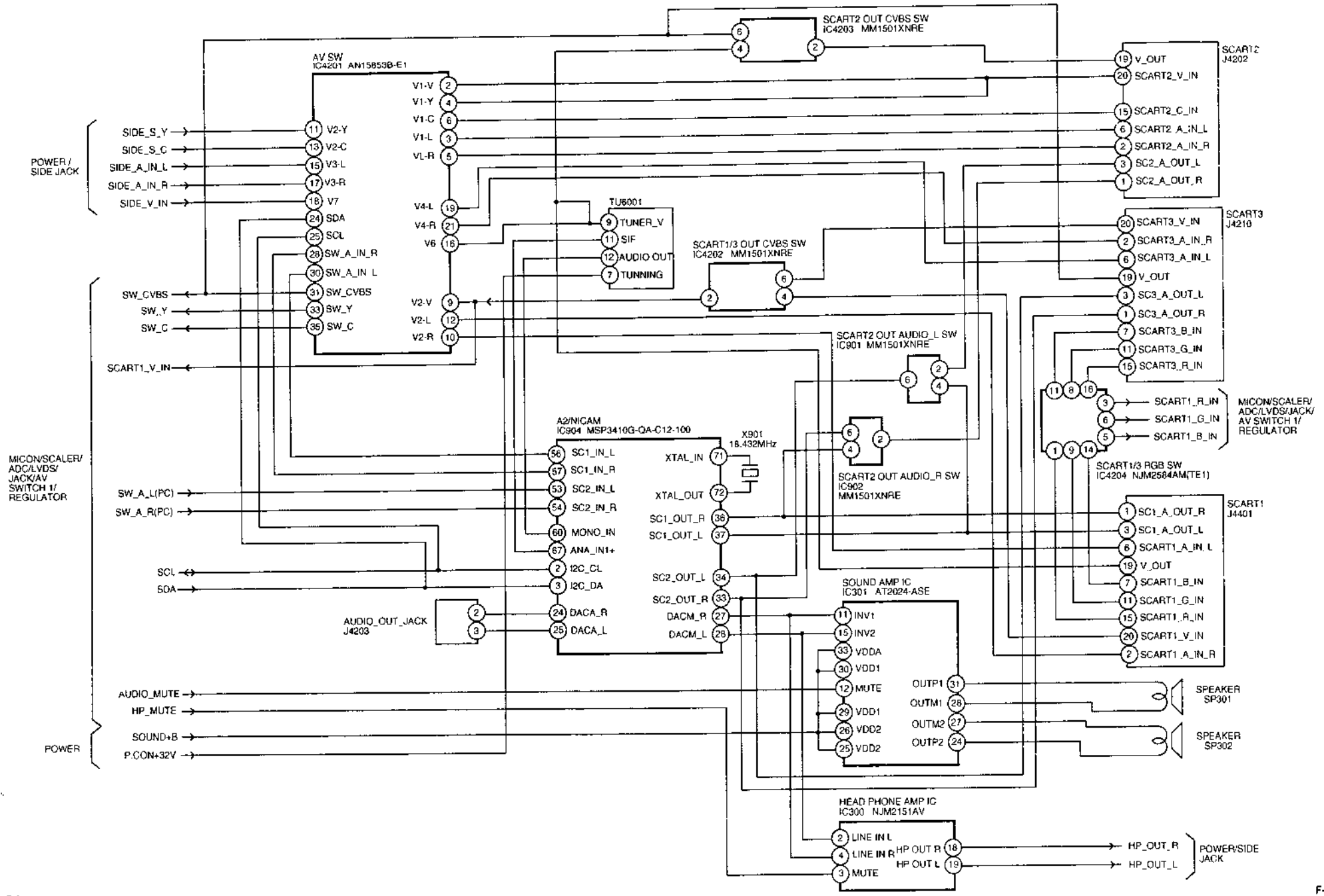
TROUBLESHOOTING GUIDE



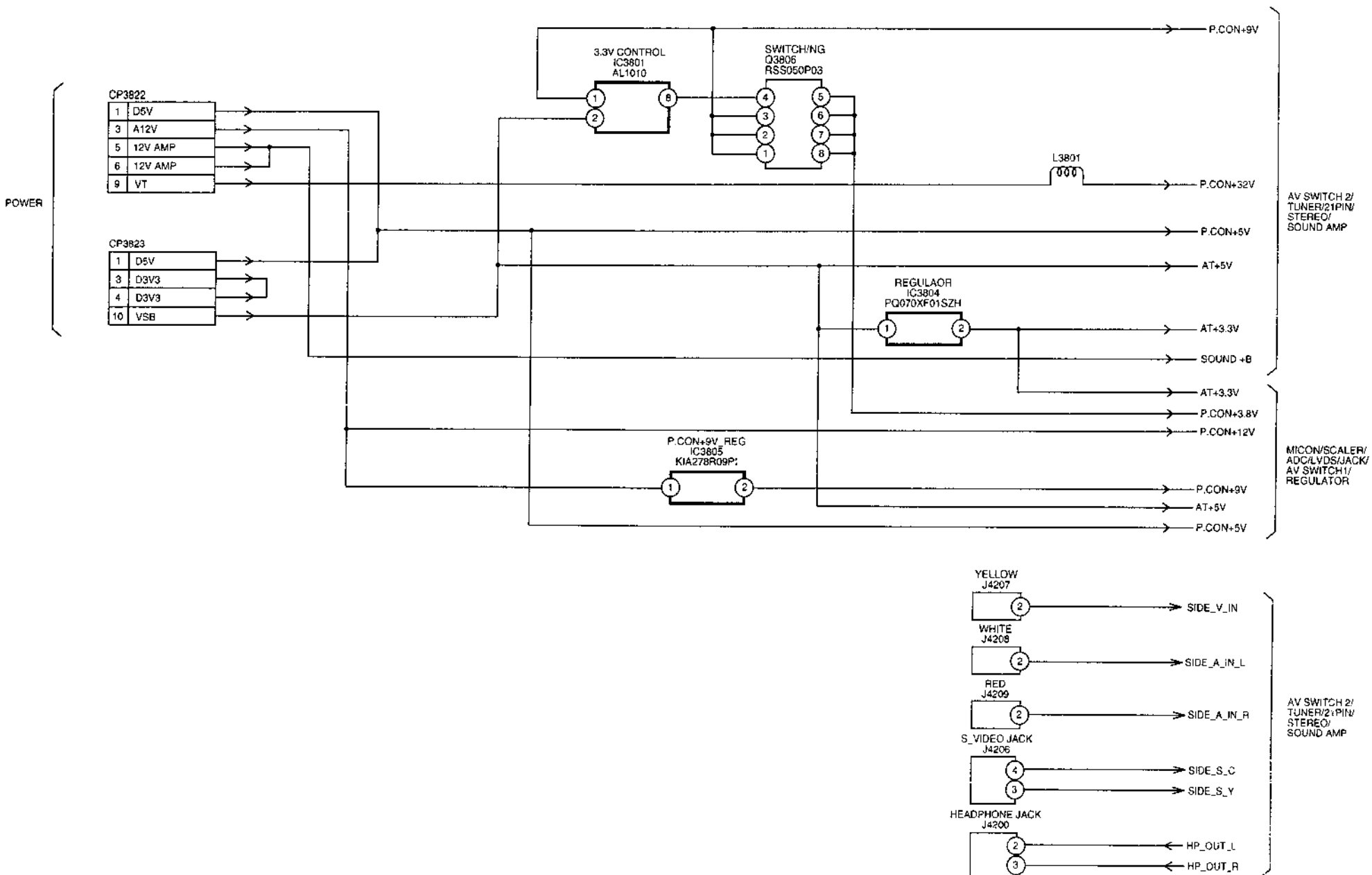
MICON/SCALER/ADC/LVDS/JACK/AV_SW1/REGULATOR BLOCK DIAGRAM



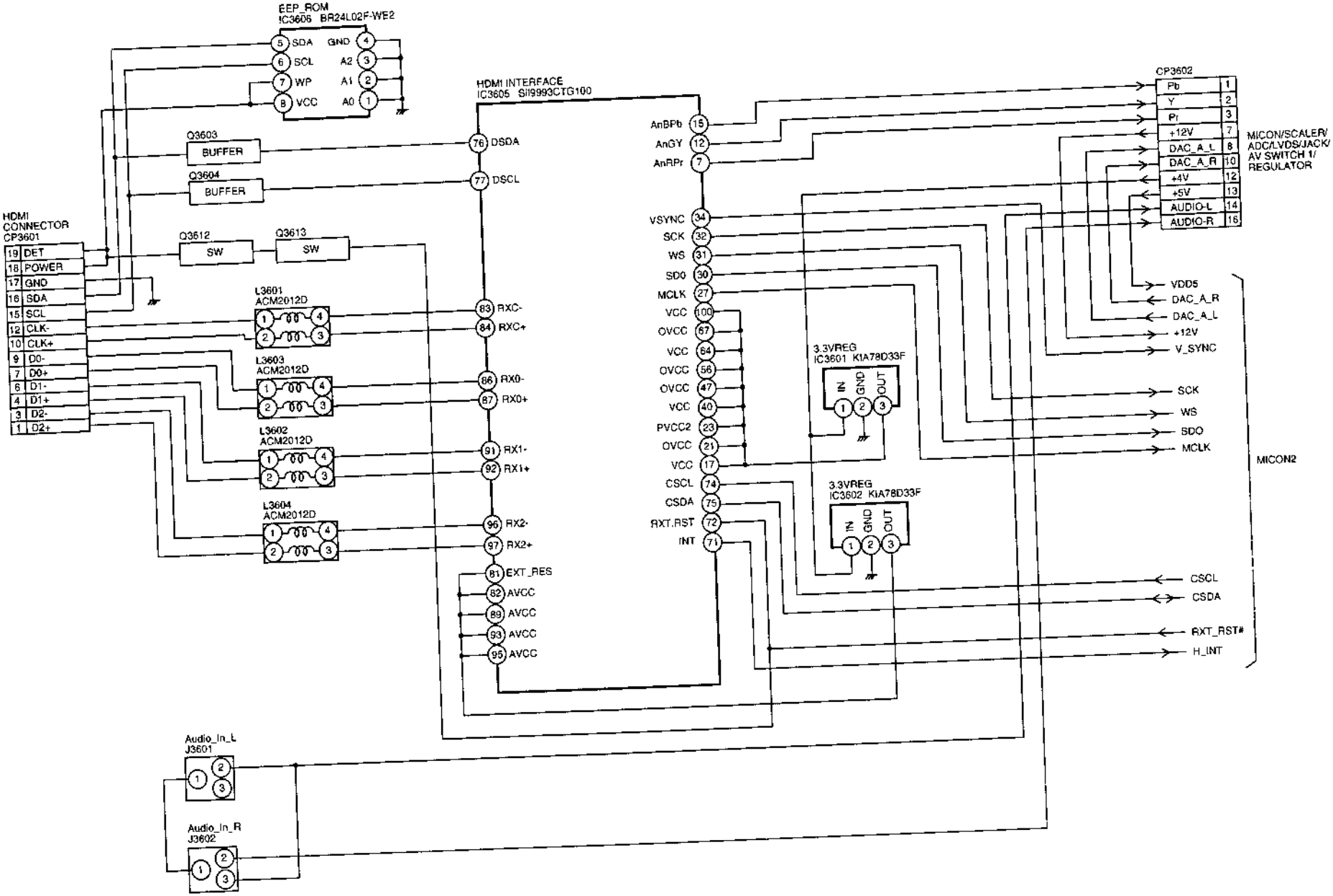
AV SWITCH 2/TUNER/21PIN/STEREO/SOUND AMP BLOCK DIAGRAM



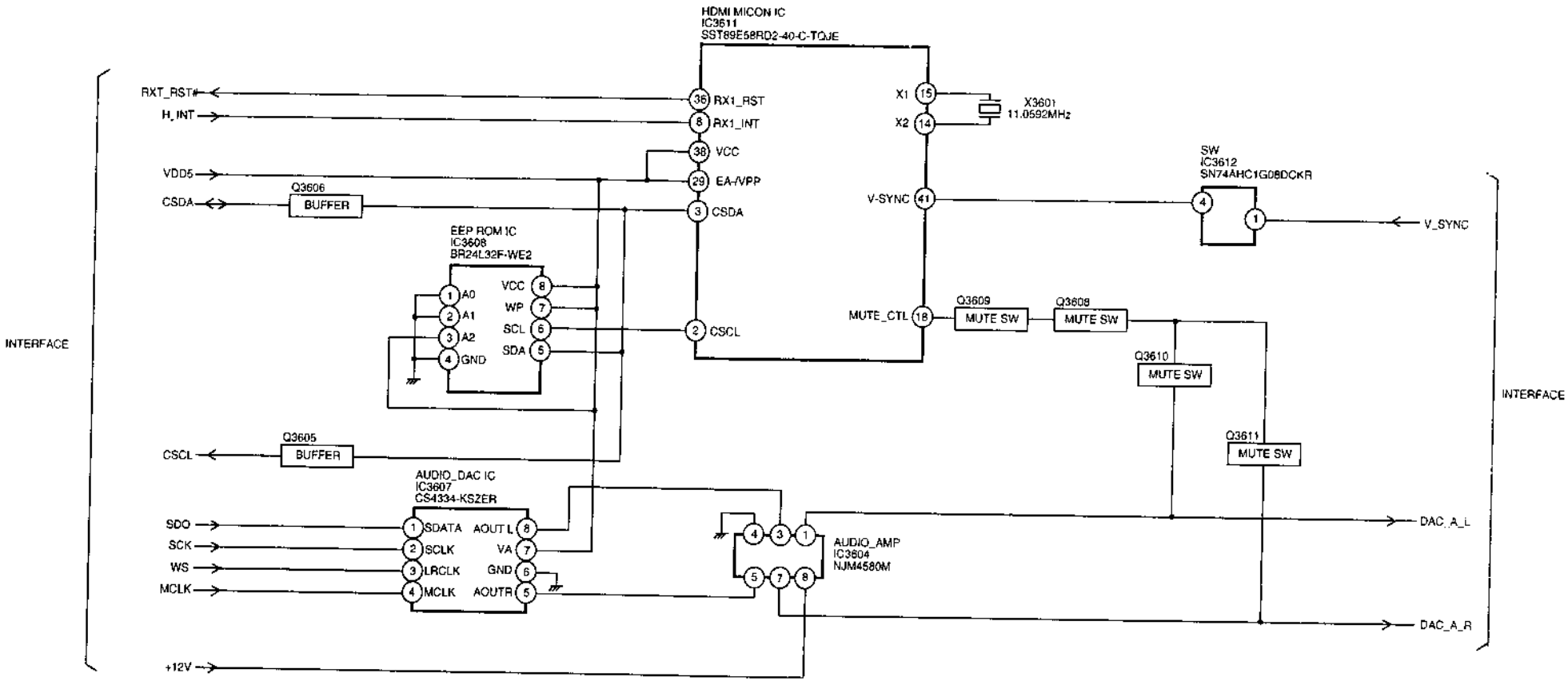
POWER/SIDE JACK BLOCK DIAGRAM



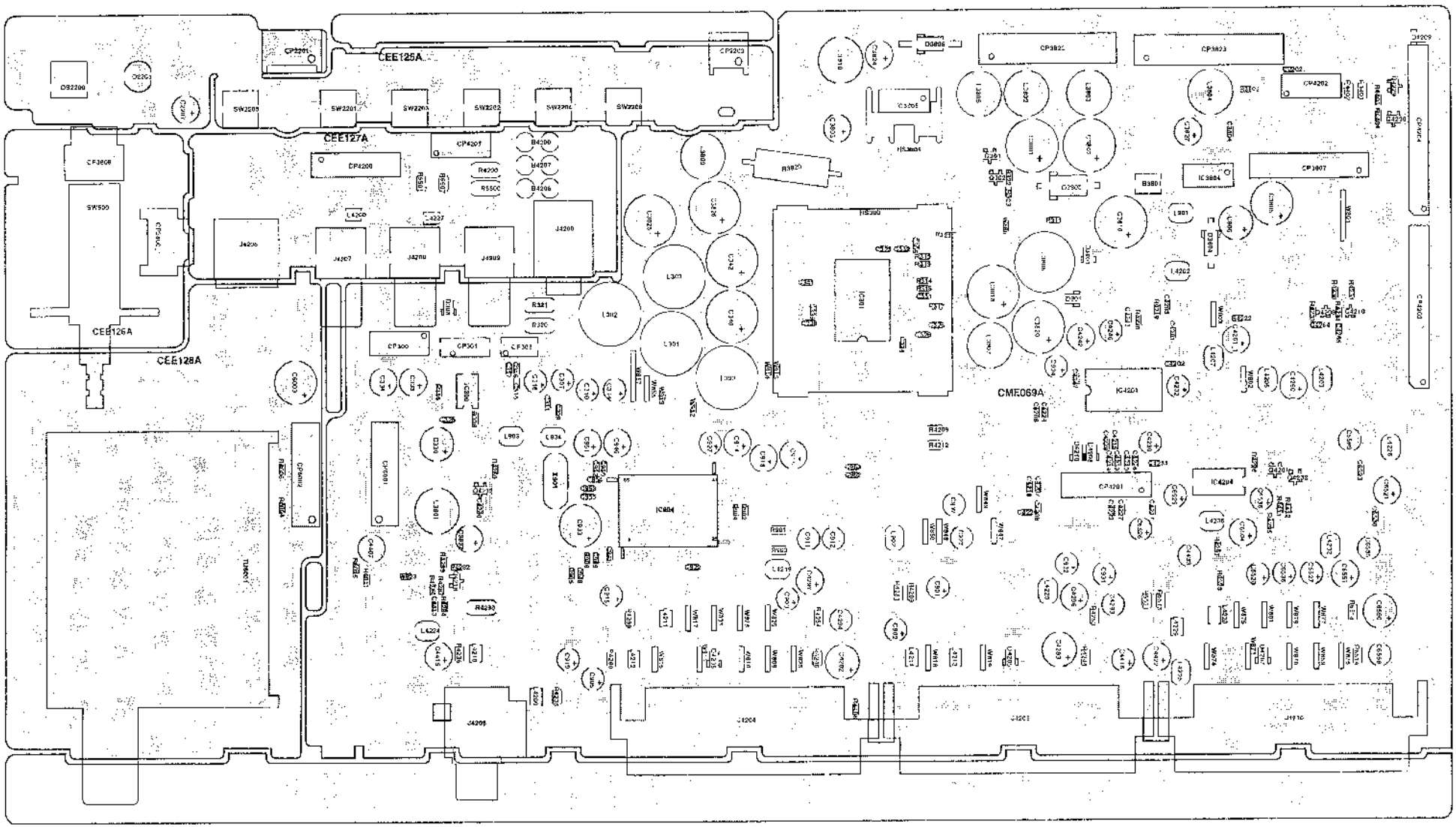
INTERFACE BLOCK DIAGRAM



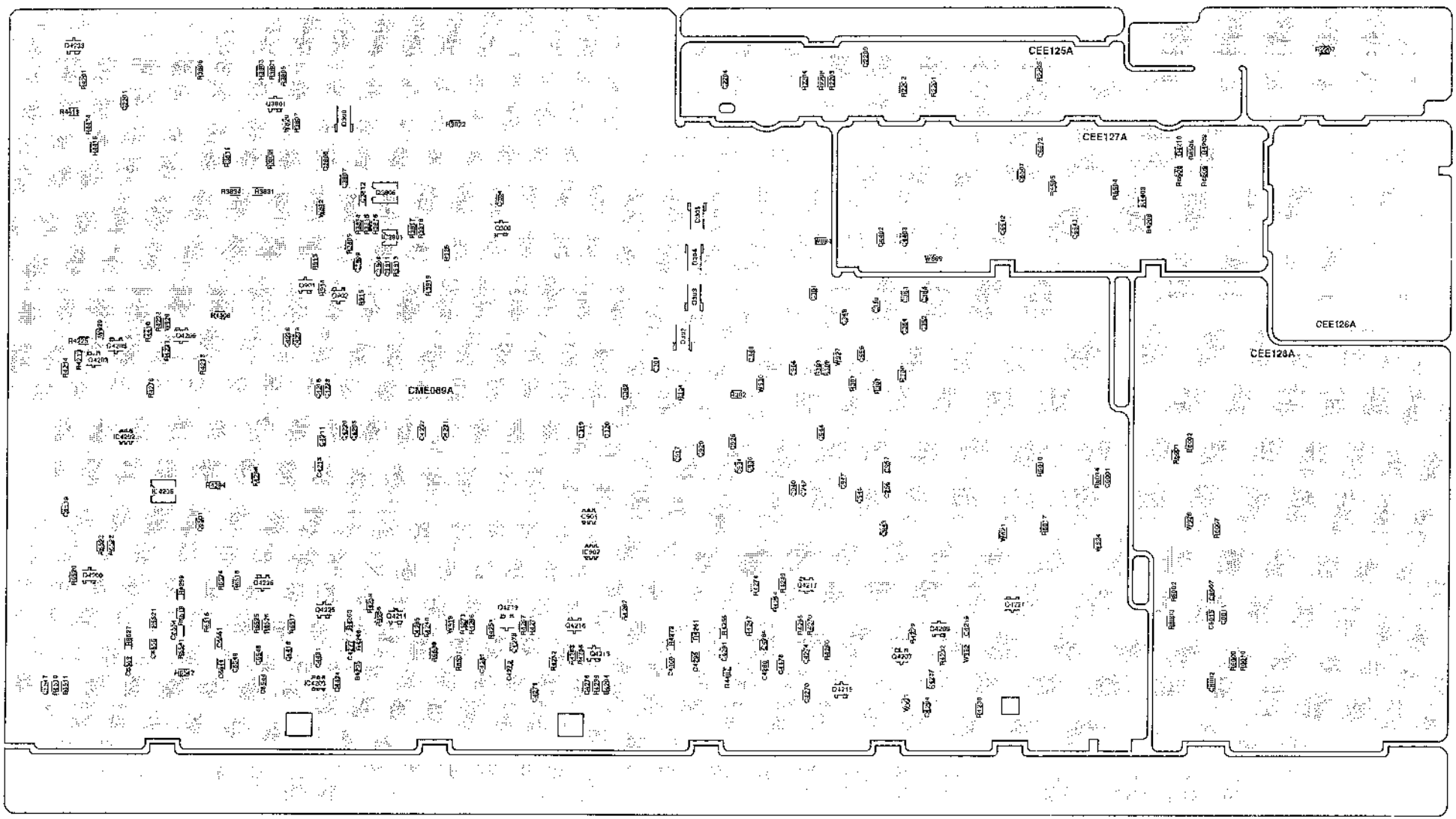
MICON2 BLOCK DIAGRAM



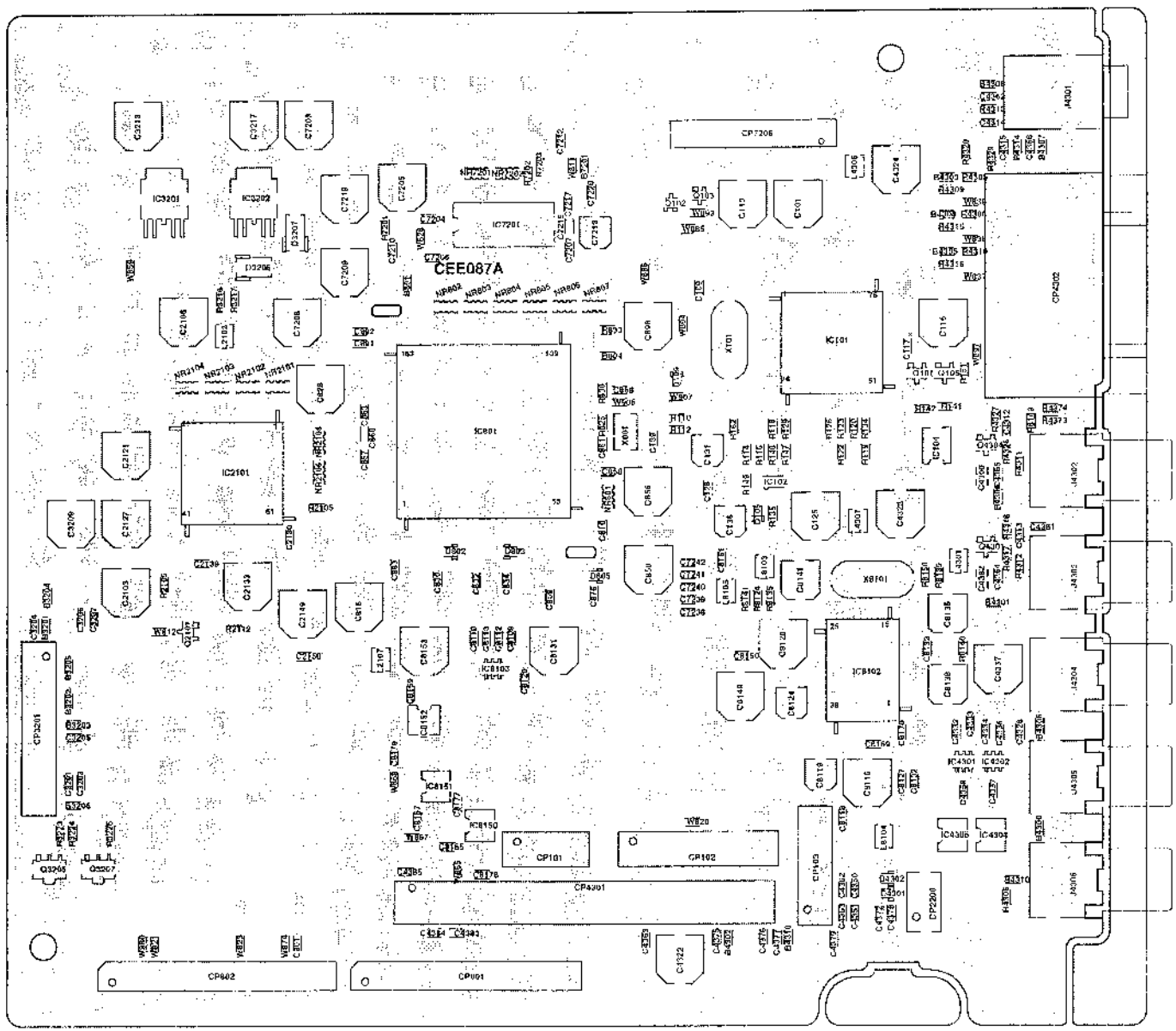
PRINTED CIRCUIT BOARDS
AV/OPERATION/TUNER/POWER SW/SIDE JACK (TOP SIDE)



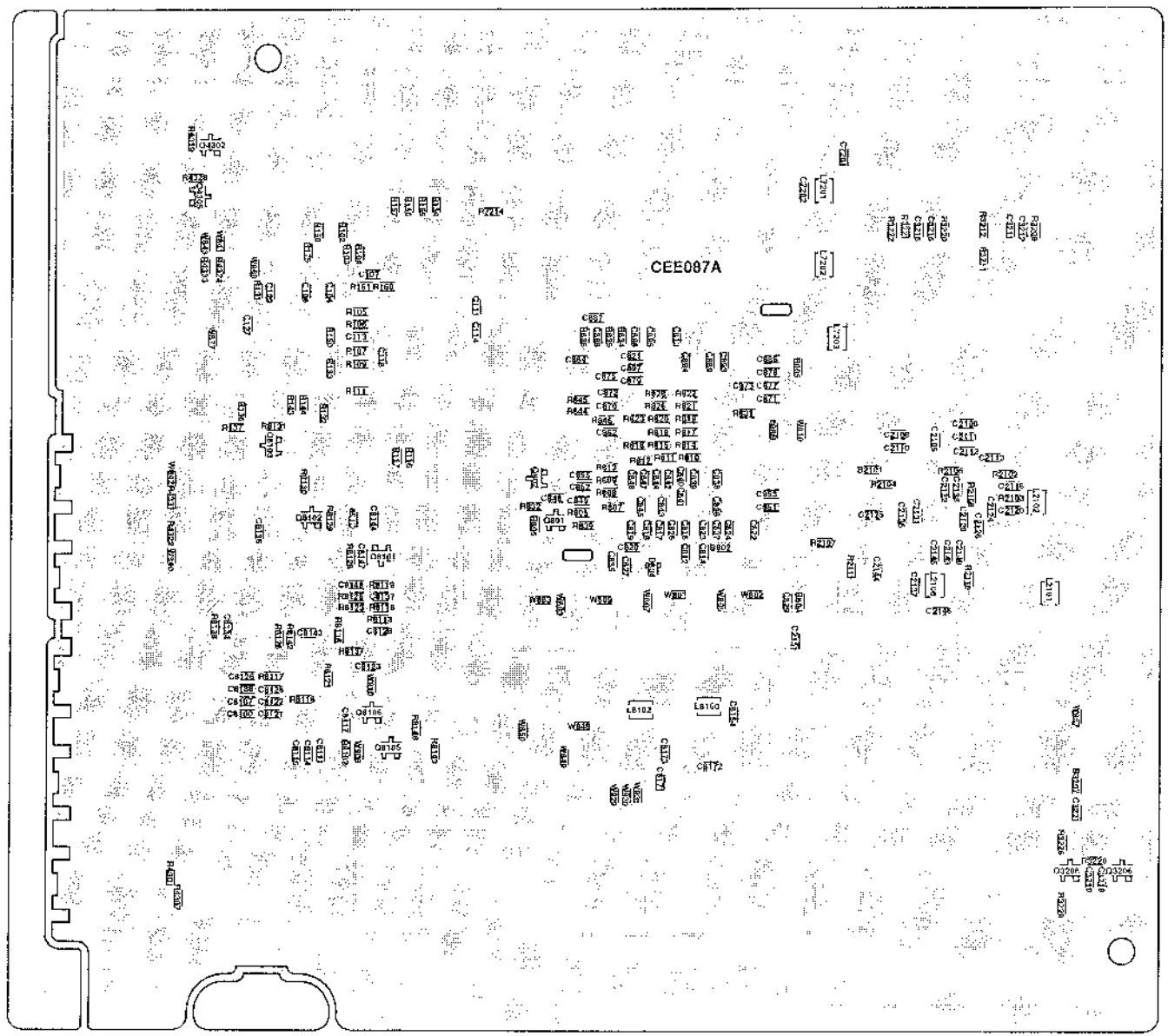
PRINTED CIRCUIT BOARDS
AV/OPERATION/TUNER/SIDE JACK (BOTTOM SIDE)



SCALER (TOP SIDE)

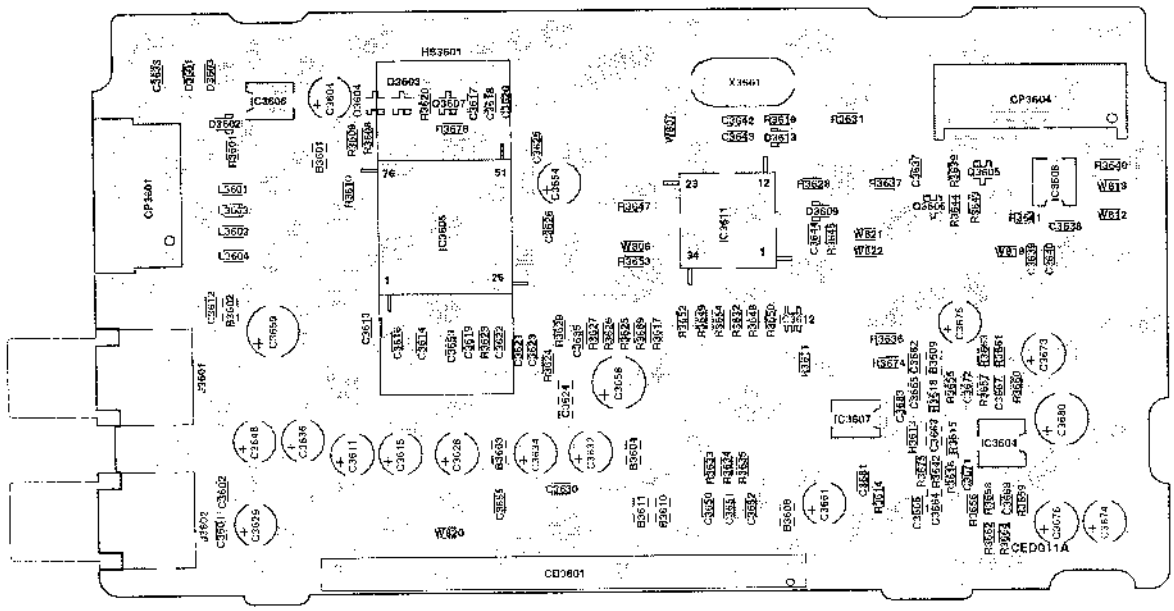


SCALER (BOTTOM SIDE)

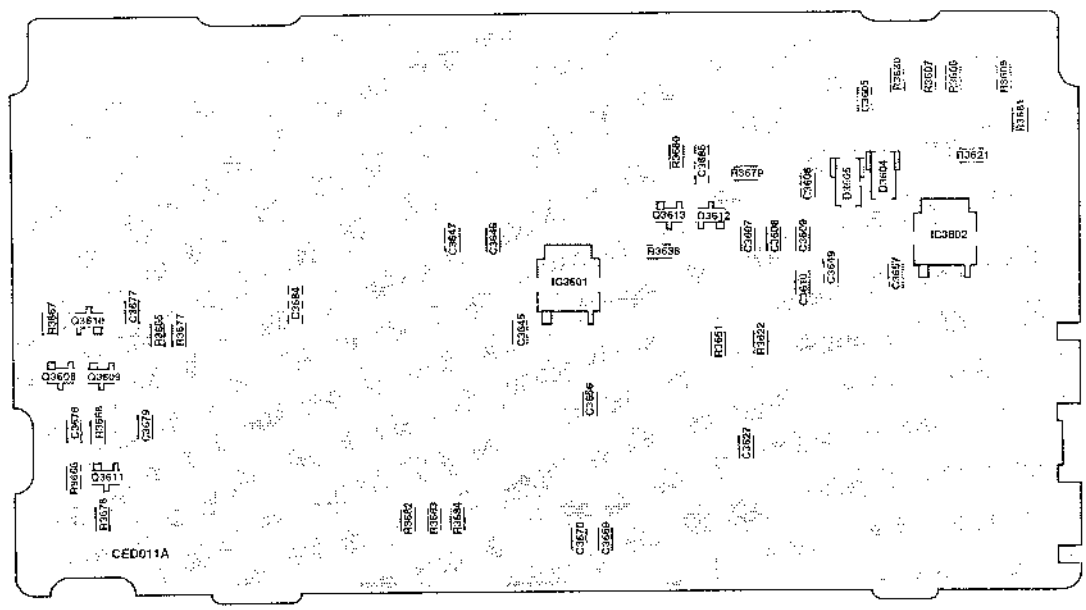


PRINTED CIRCUIT BOARDS

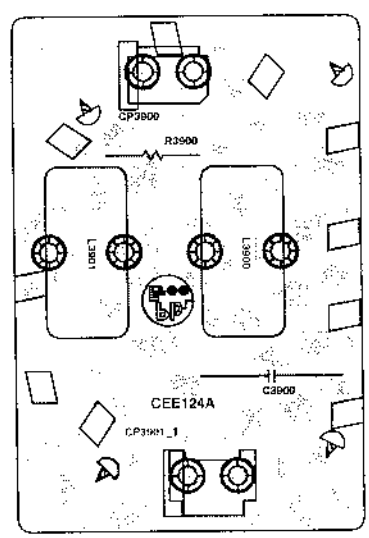
HD-MI (TOP SIDE)



HD-MI (BOTTOM SIDE)

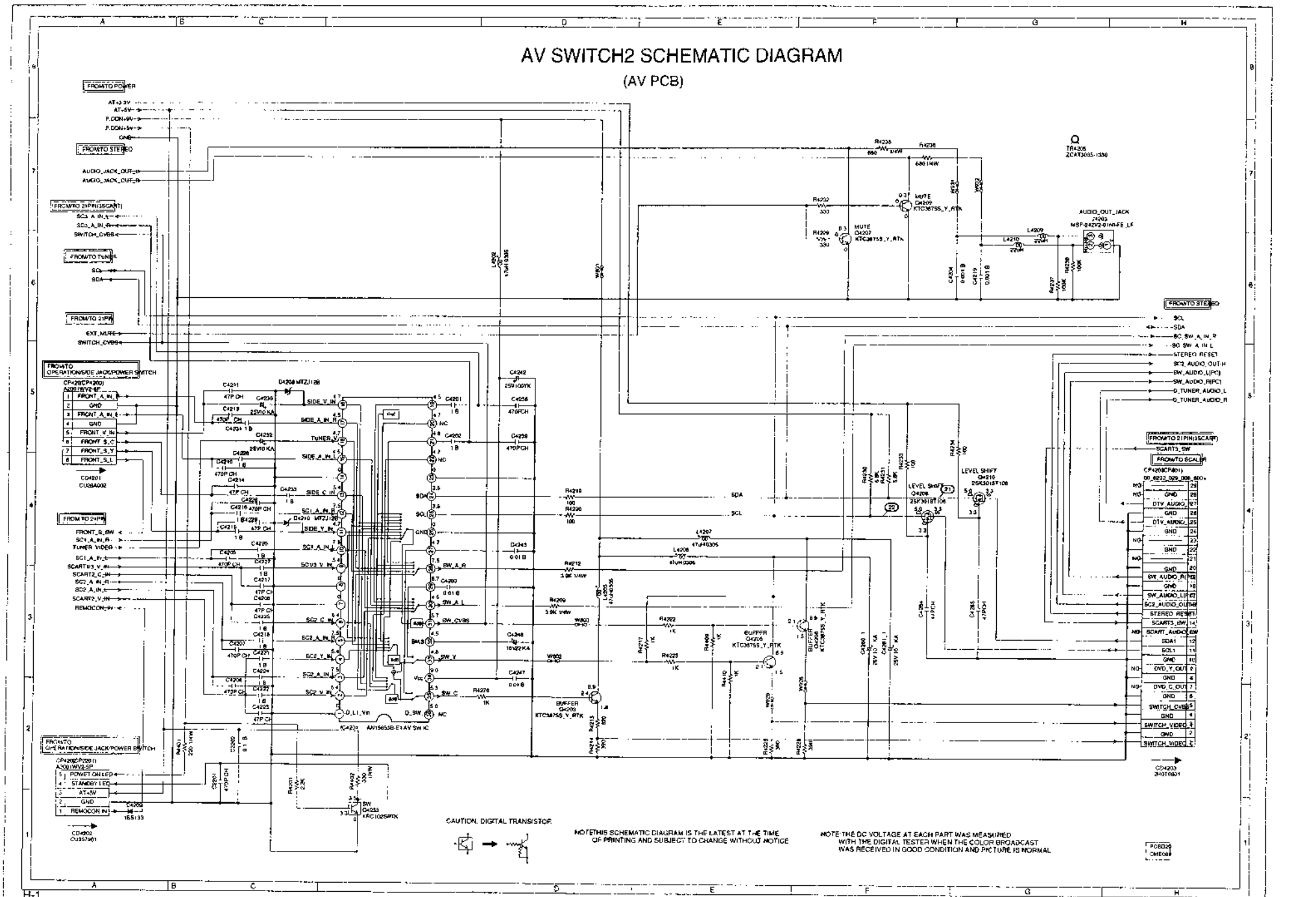


FILTER
SOLDER SIDE



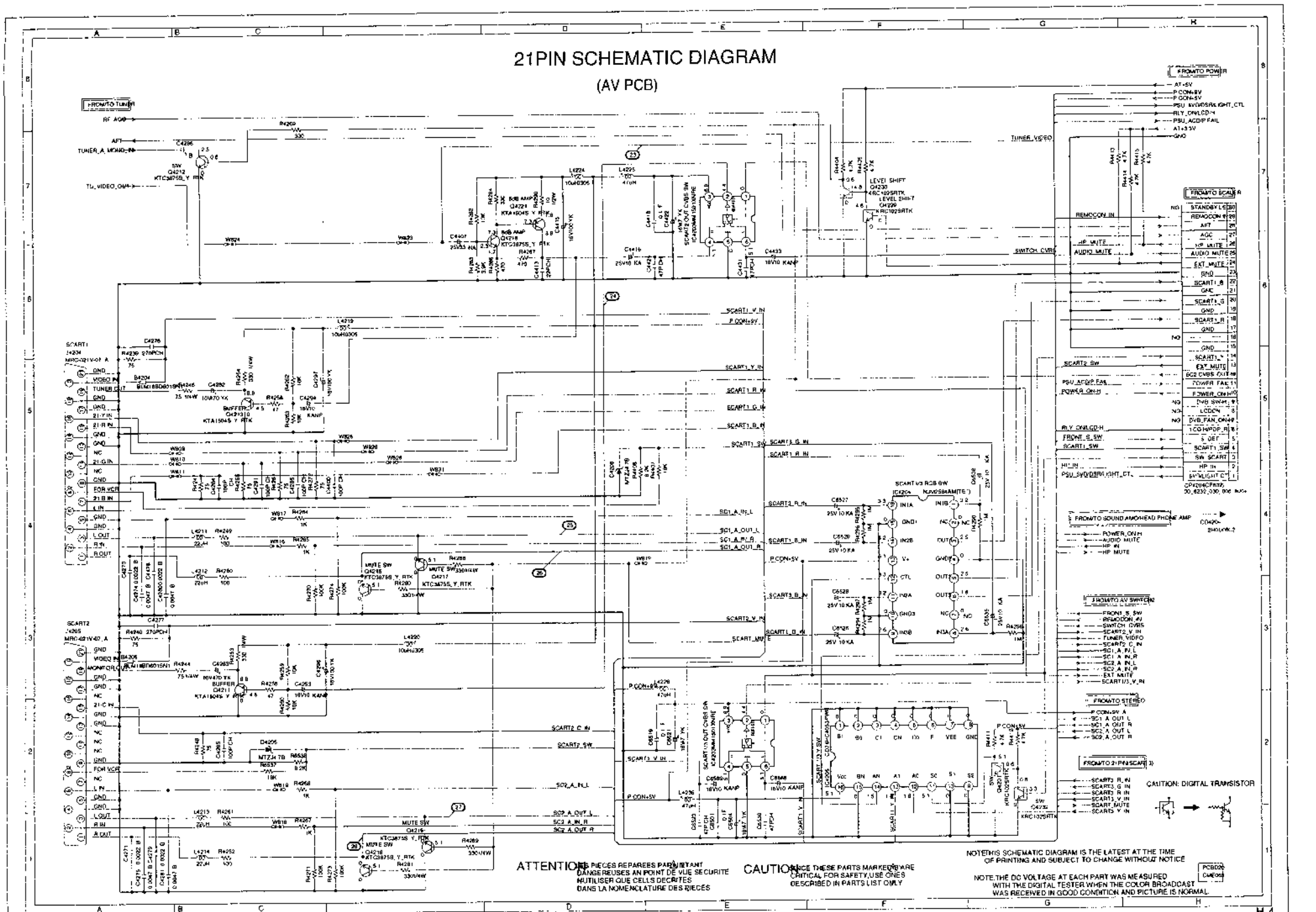
AV SWITCH2 SCHEMATIC DIAGRAM

(AV PCB)



21PIN SCHEMATIC DIAGRAM

(AV PCB)



ATTENTION: POUR LES PIECES REPAREES PARTICULIEREMENT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

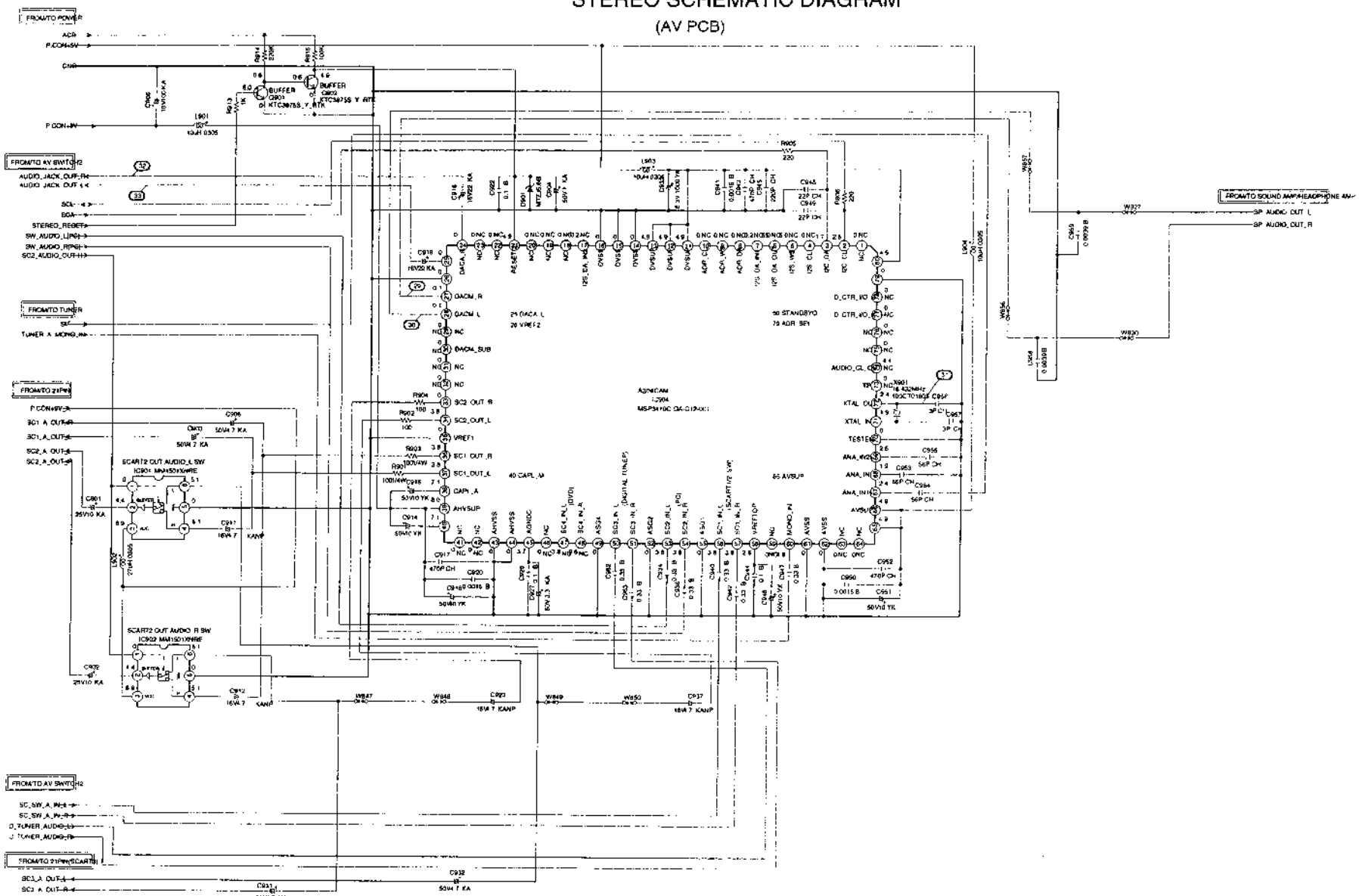
CAUTION: FOR SAFETY, USE ONLY THESE PARTS MARKED ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY

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.

STEREO SCHEMATIC DIAGRAM

(AV PCB)

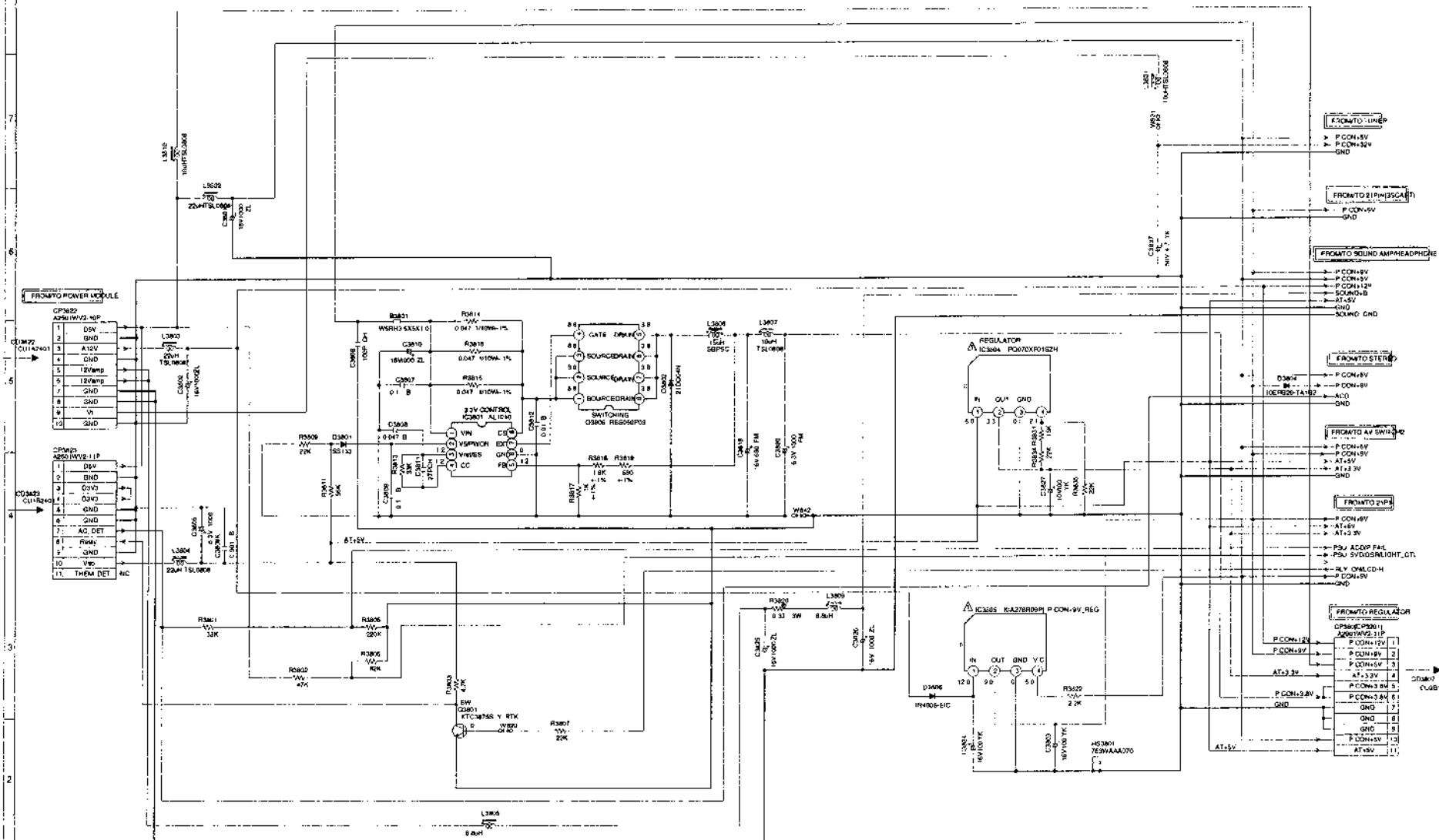


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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.

POWER SCHEMATIC DIAGRAM

(AV 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

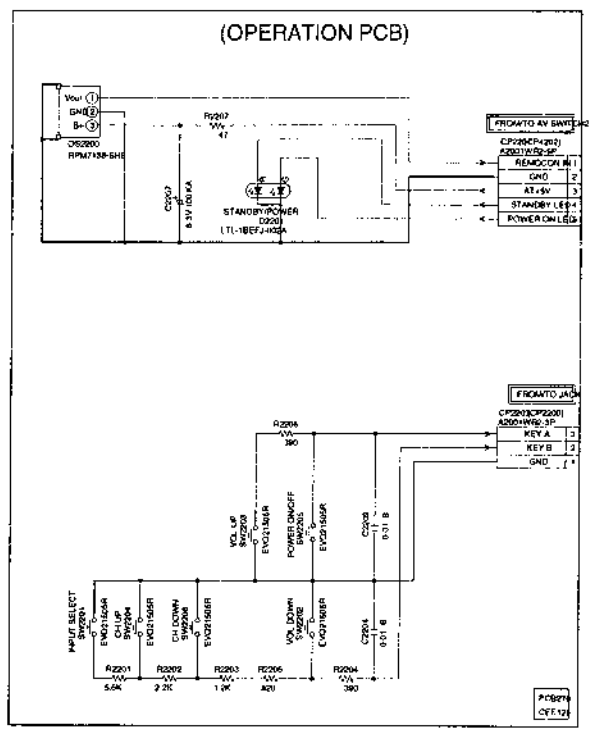
CAUTION: FOR SAFETY, WHEN REPLACING THESE PARTS MARKED Δ ARE CRITICAL FOR SAFETY. USE ONES DESCRIBED IN PARTS LIST ONLY

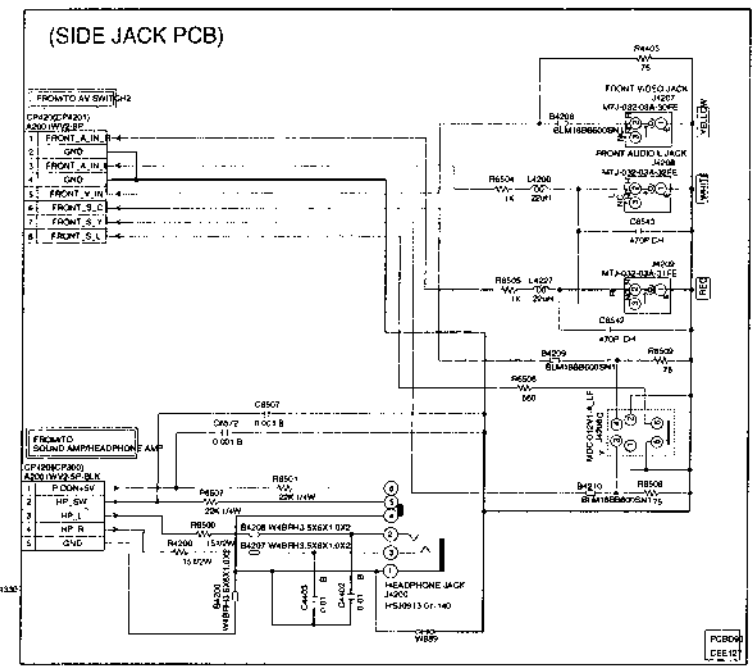
ATTENTION: POUR LA SECURITE, LES PIECES REPAREES PARTICULIEREMENT DANGEREUSES AU POINT DE VUE SECURITE, UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

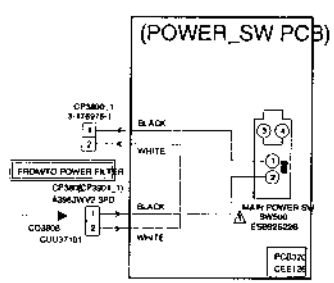
H-7

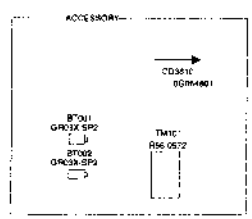
H-8

OPERATION/SIDE JACK/POWER SWITCH SCHEMATIC DIAGRAM









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

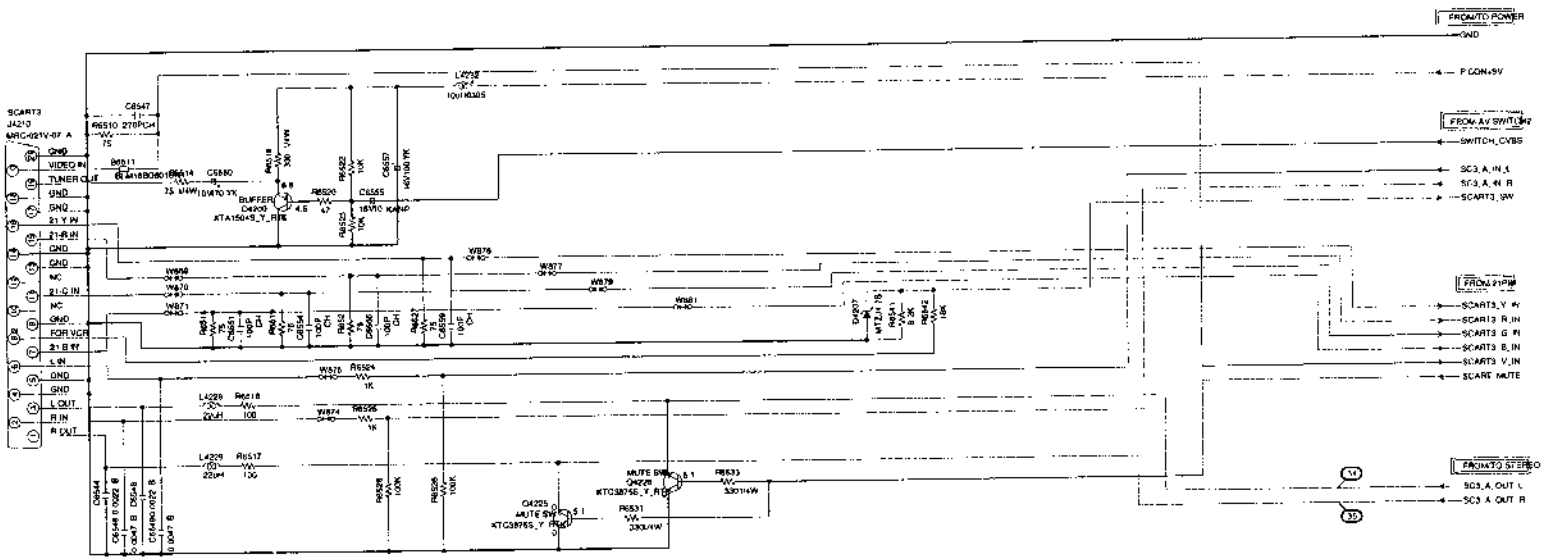
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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

ATTENTION: POUR LA SECURITE, LES PIECES REPAREES PARVENTANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

21PIN(3SCART) SCHEMATIC DIAGRAM

(AV PCB)

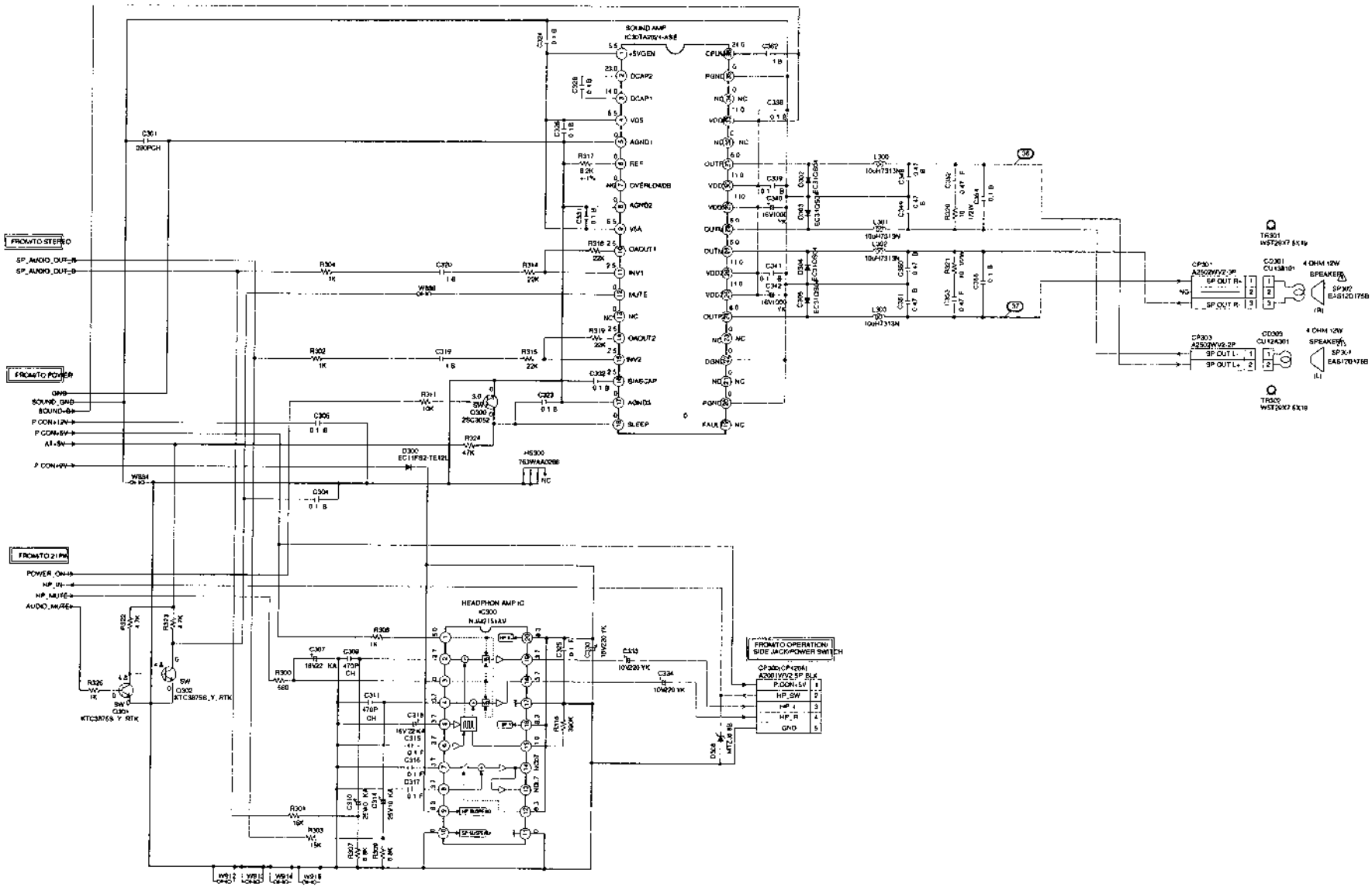


NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

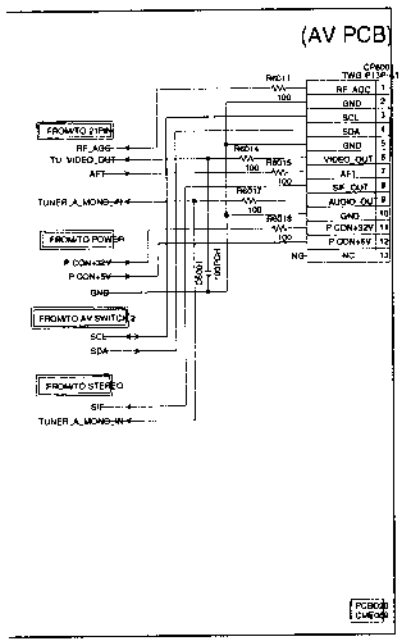
NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

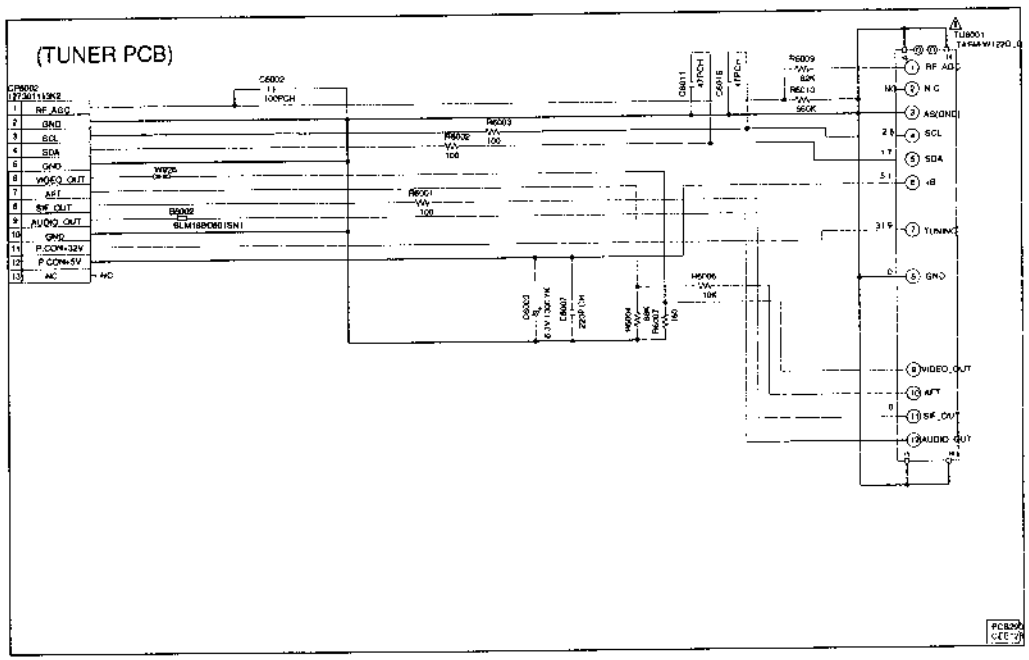
SOUND AMP/HEADPHONE AMP SCHEMATIC DIAGRAM

(AV PCB)



TUNER SCHEMATIC DIAGRAM





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

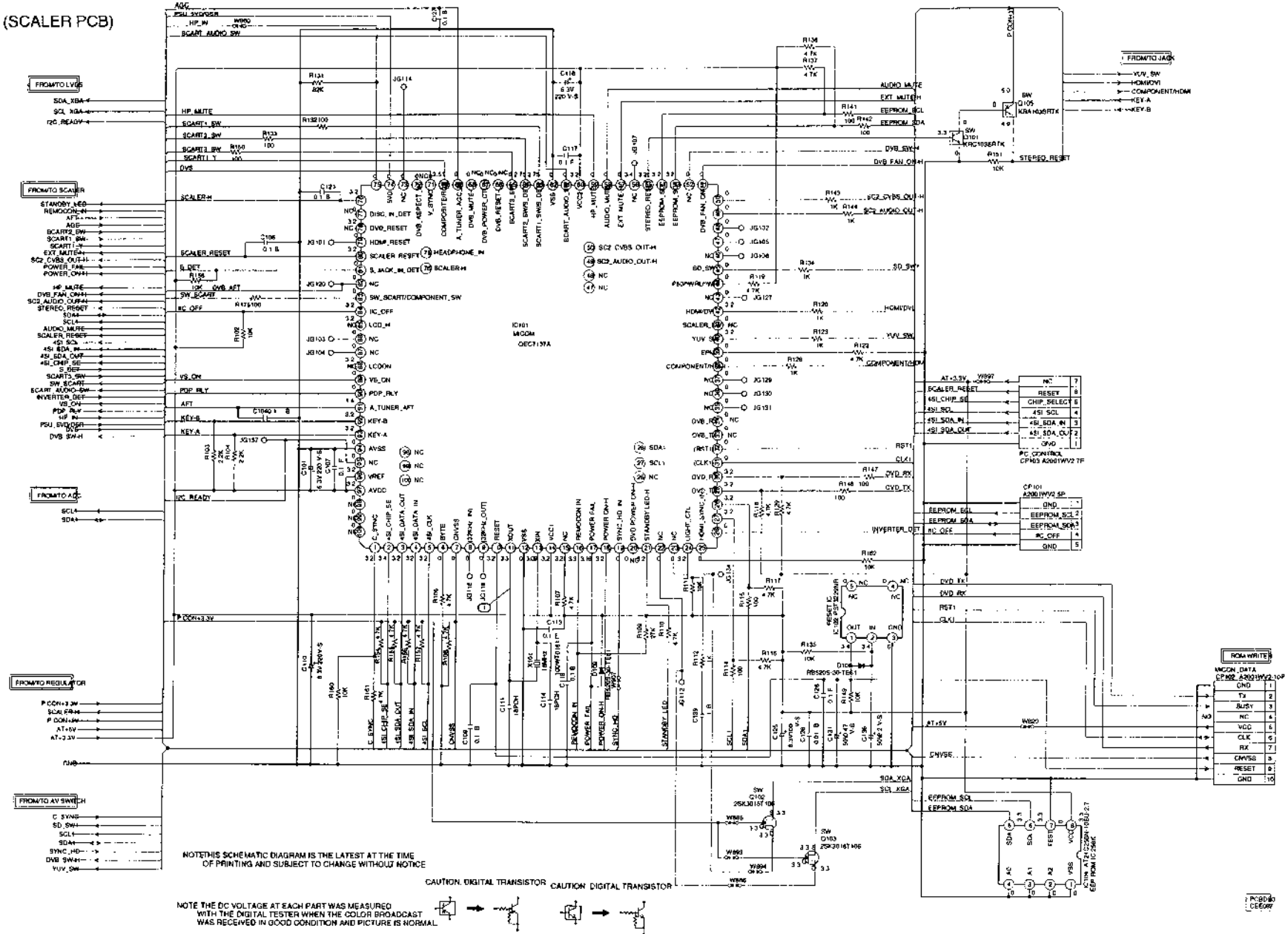
NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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

ATTENTION: LES PIÈCES REPAREES PAR ⚠ SONT DANGEREUSES AN POINT OE VUE SECURITÉ N'UTILISER QUE CELLS DÉCRITES DANS LA NOMENCLATURE DES PIÈCES

MICON SCHEMATIC DIAGRAM

(SCALER PCB)



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

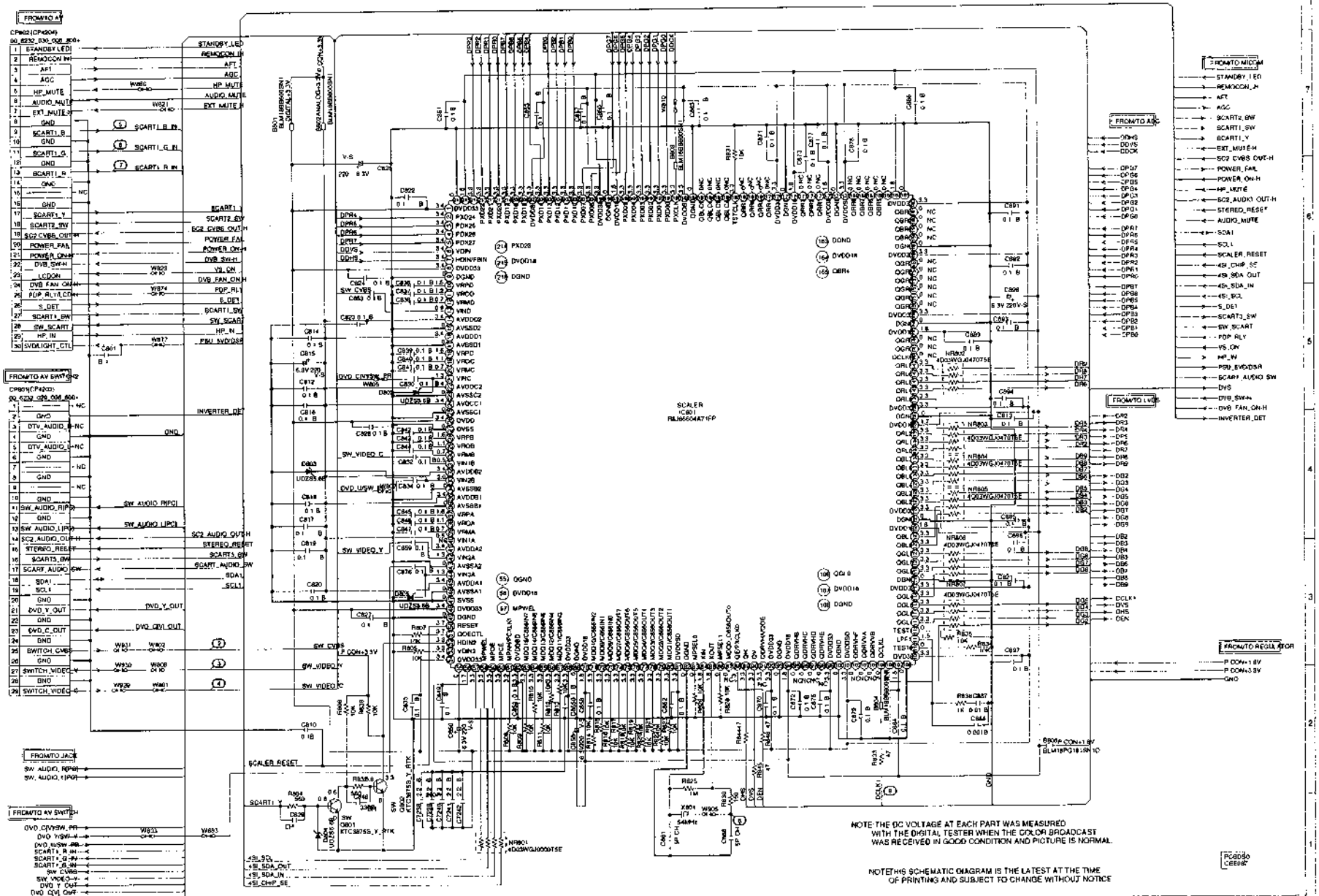
NOTE THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

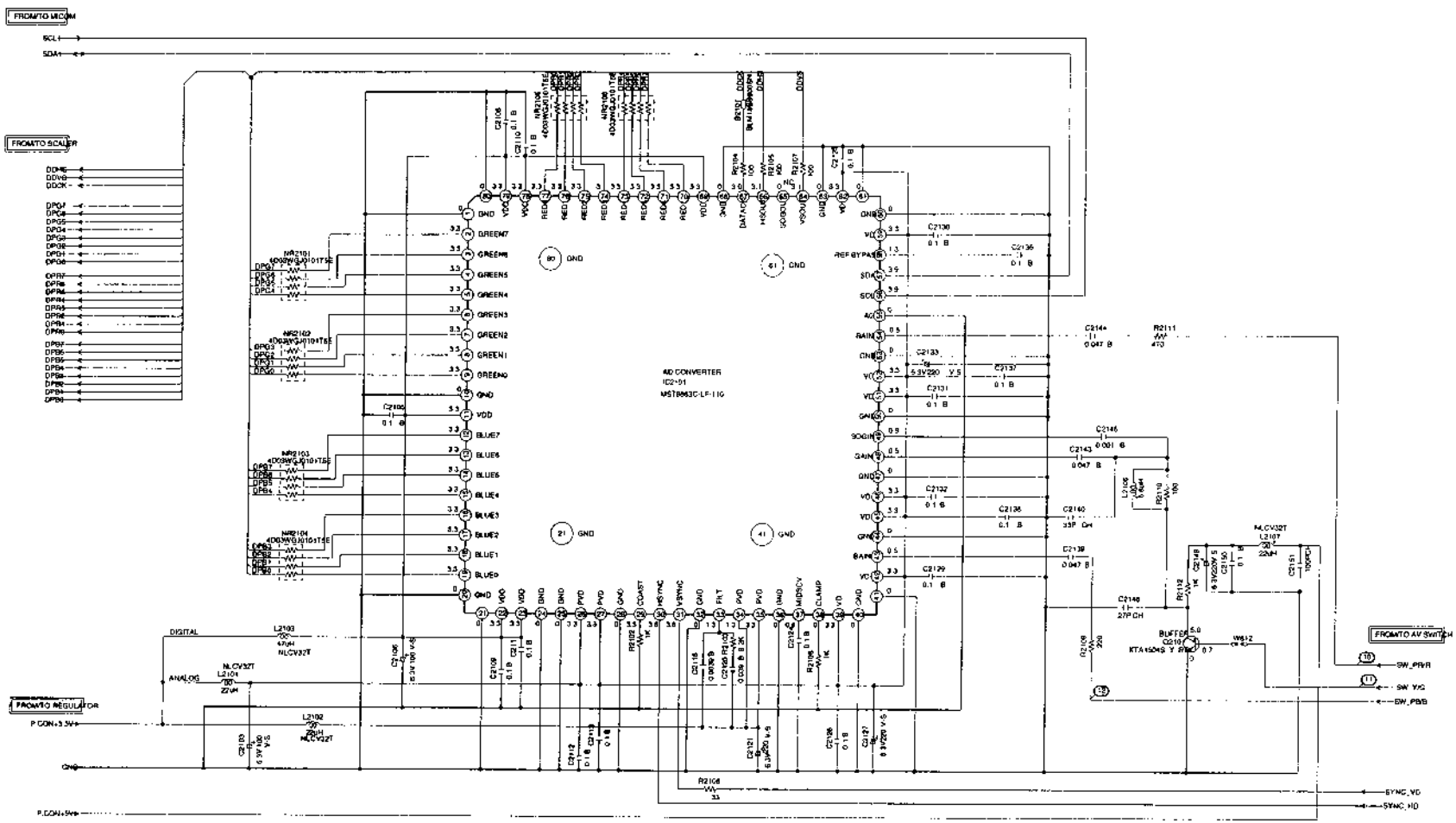
SCALER SCHEMATIC DIAGRAM

(SCALER PCB)



ADC SCHEMATIC DIAGRAM

(SCALER PCB)

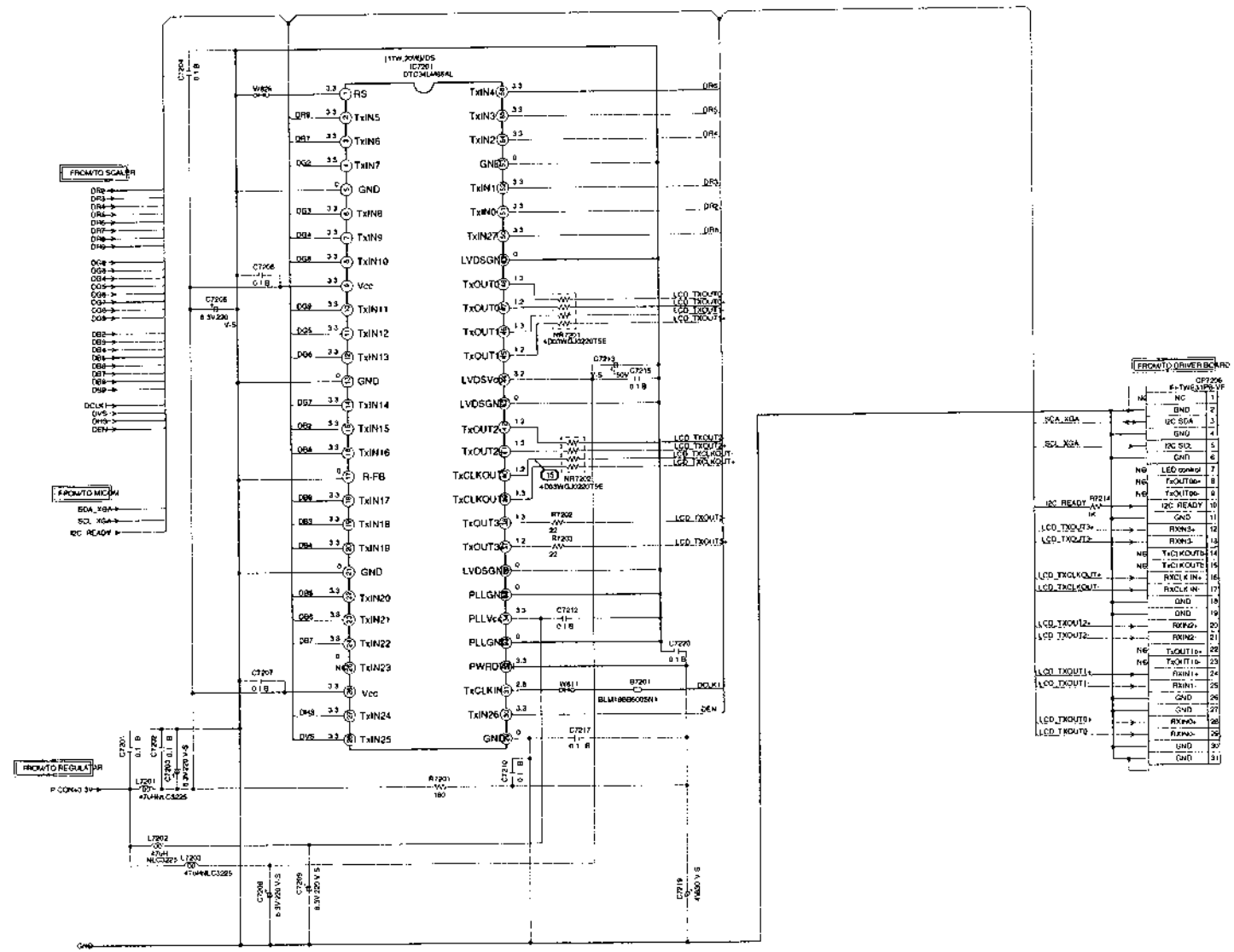


NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

LVDS SCHEMATIC DIAGRAM

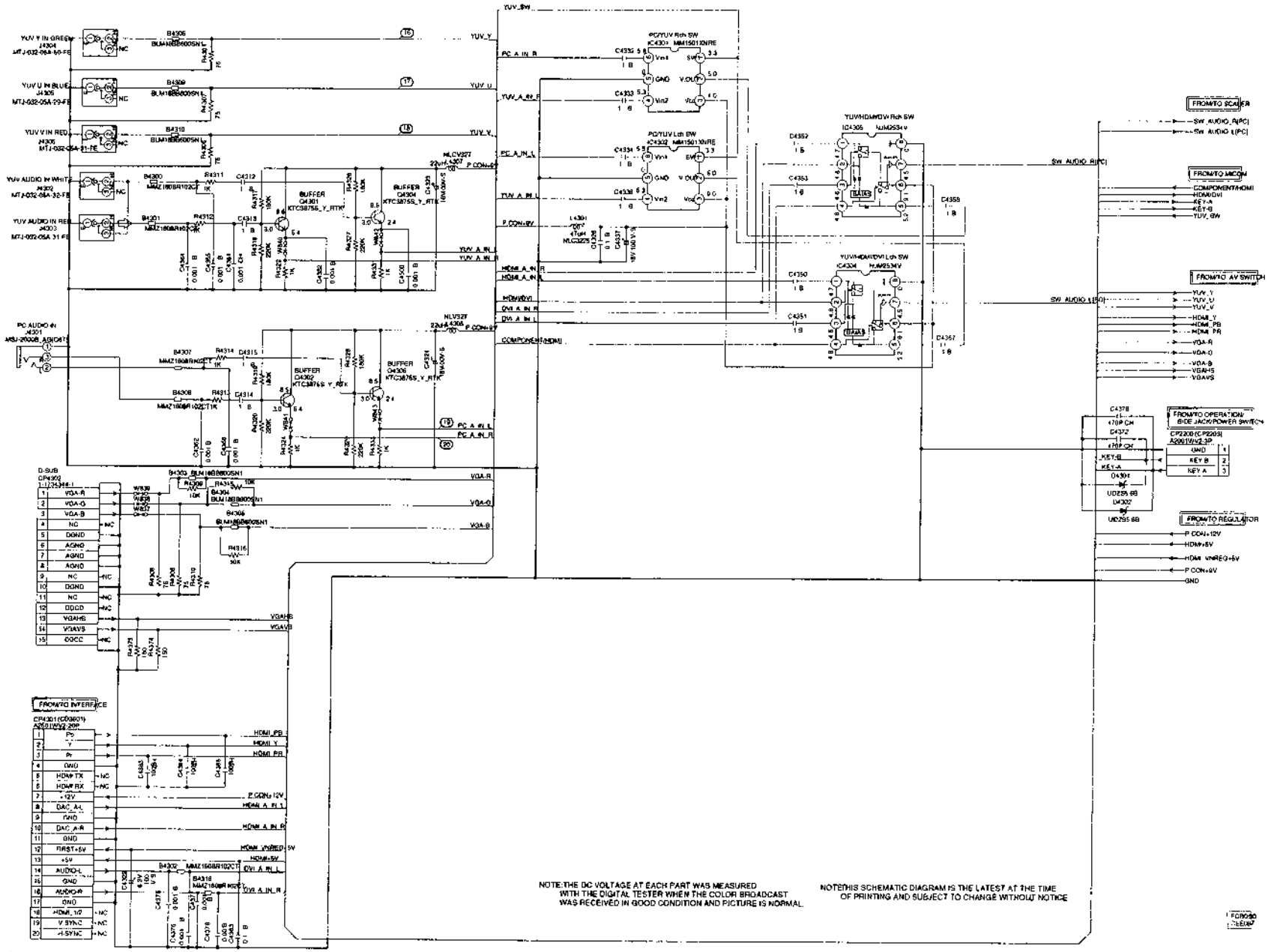
(SCALER PCB)



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

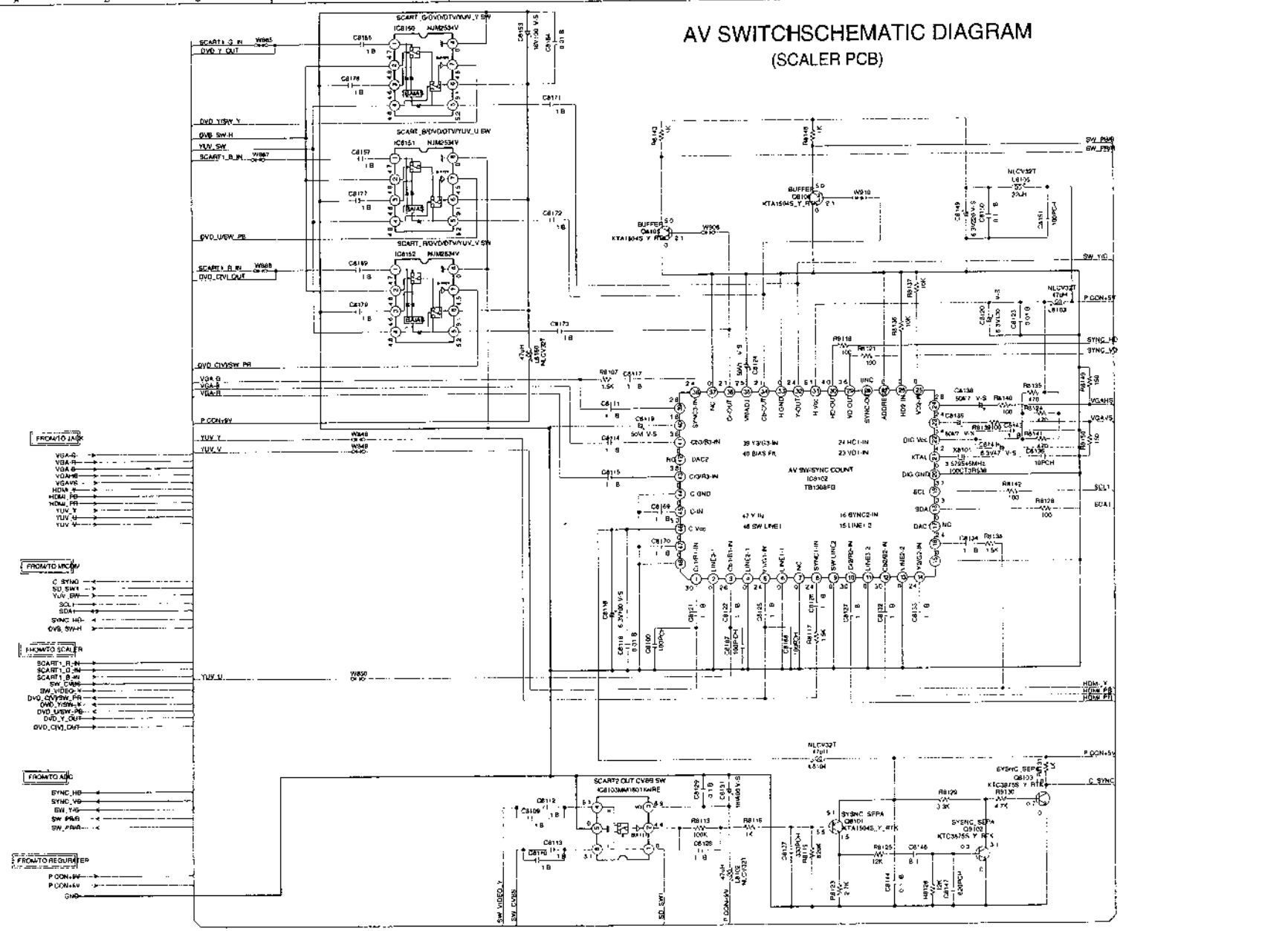
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

JACK SCHEMATIC DIAGRAM (SCALER PCB)



AV SWITCHSCHEMATIC DIAGRAM

(SCALER PCB)

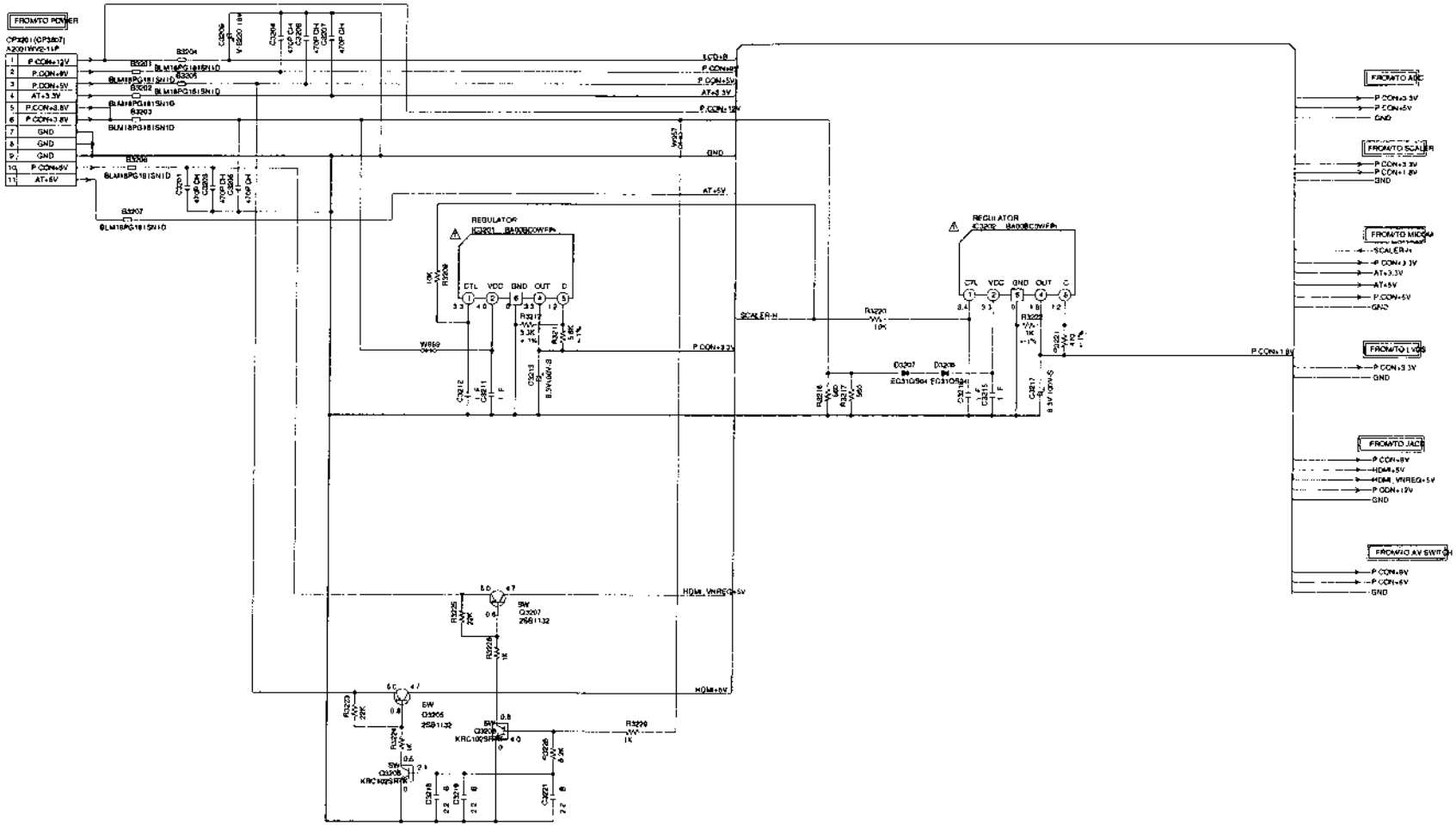


NOTE:THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL

NOTETHIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

REGULATOR SCHEMATIC DIAGRAM

(SCALER PCB)



CAUTION: FOR SAFETY, ALWAYS REPLACE THESE PARTS MARKED ⚠ WITH PARTS SPECIFIED IN THE PARTS LIST.

ATTENTION: POUR LA SECURITE, REMPLACER LES PIECES REPEREES ⚠ PAR DES PIECES SPECIFIEES DANS LA NOMENCLATURE DES PIECES.

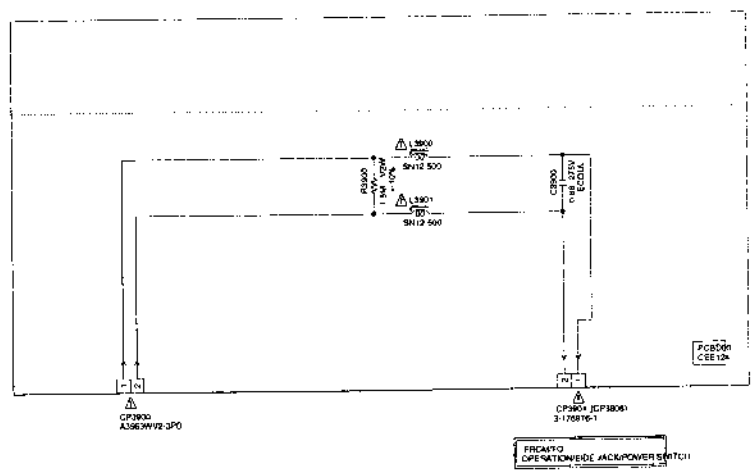
CAUTION: DIGITAL TRANSISTOR

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.

POWER FILTER SCHEMATIC DIAGRAM

(FILTER PCB)



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

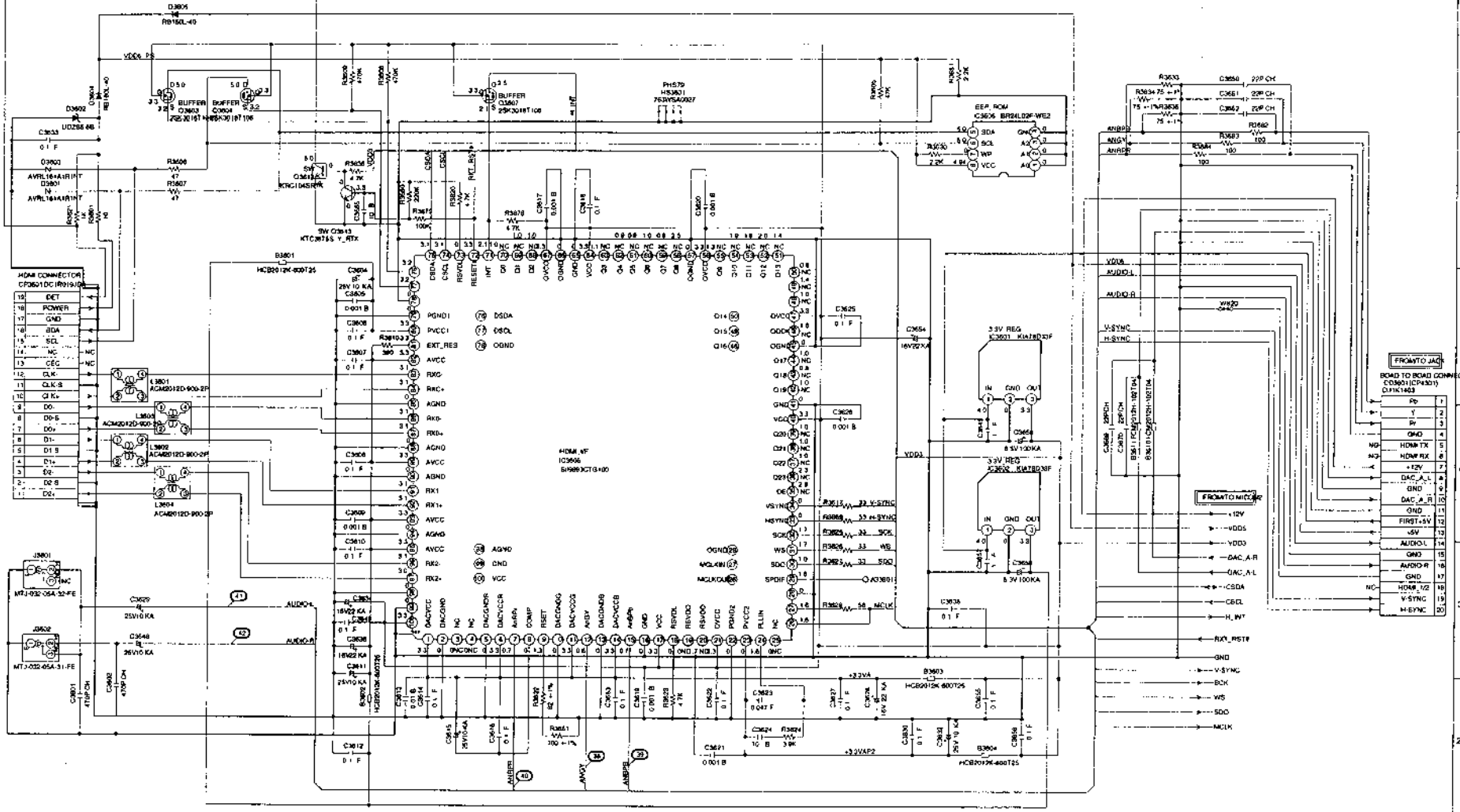
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

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

ATTENTION: POUR LA SECURITE, LES PIÈCES REPAREES PAR ⚠ SONT CRITIQUES DANGEREUSES AU POINT DE VUE SECURITE UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES

INTERFACE SCHEMATIC DIAGRAM

(HD-MI PCB)



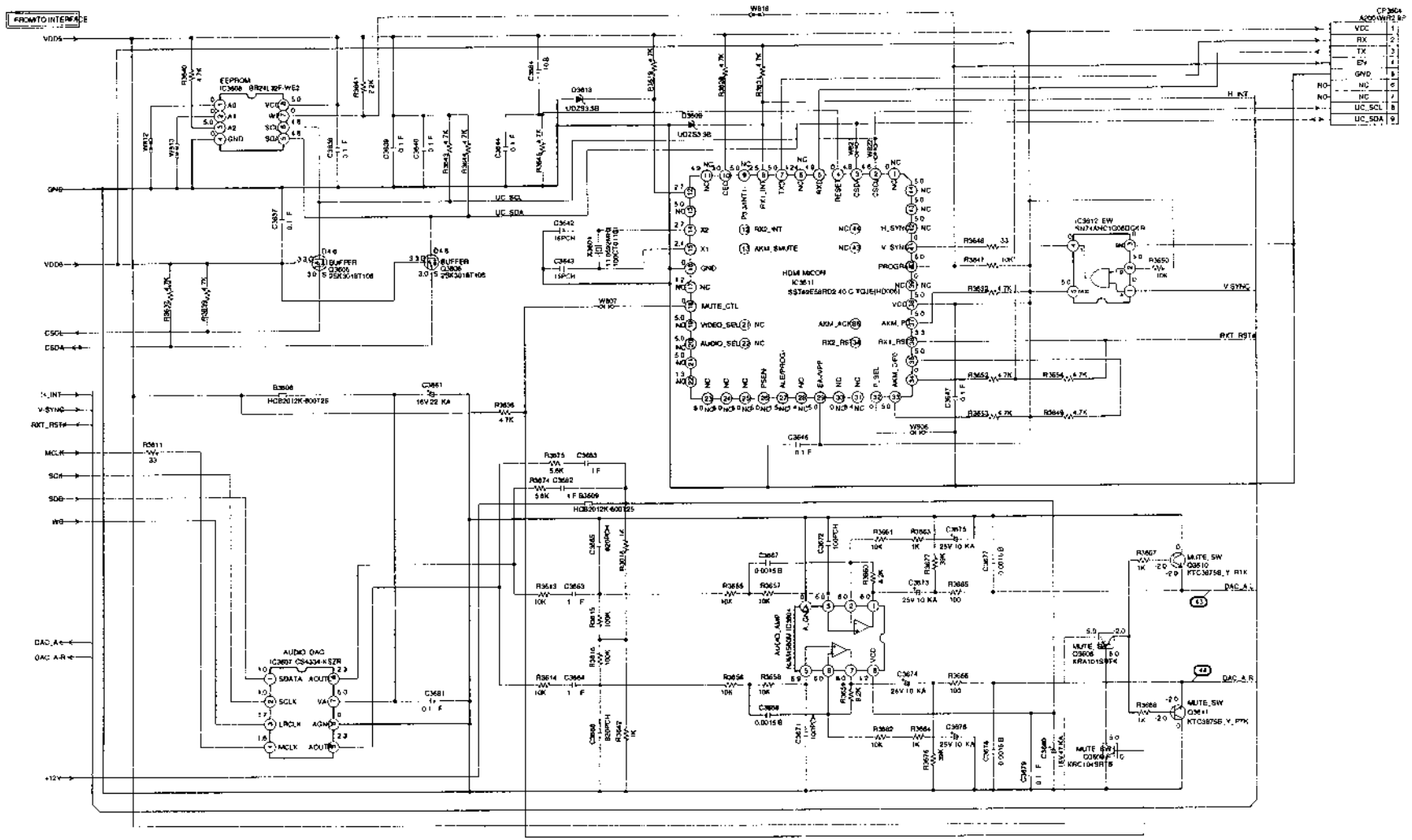
CAUTION: DIGITAL TRANSISTOR

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

MICON2 SCHEMATIC DIAGRAM

(HD-MI PCB)



CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

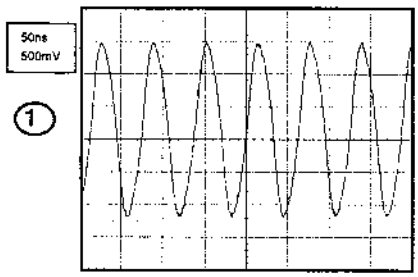
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE

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.

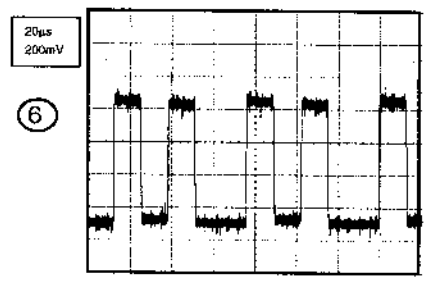
PCB036
CSD01

WAVEFORMS

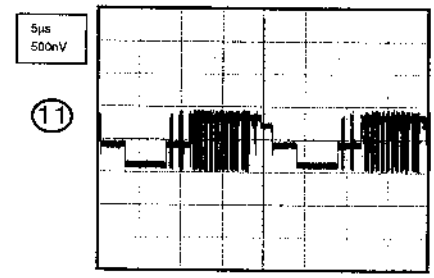
MICON



①

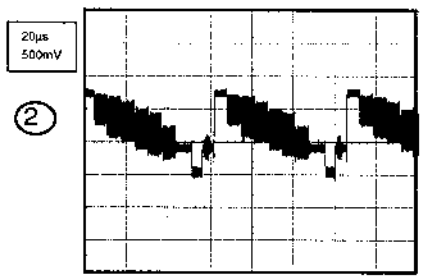


⑥

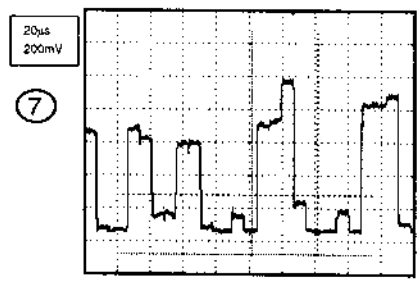


⑪

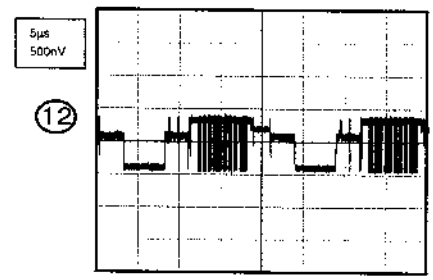
SCALER



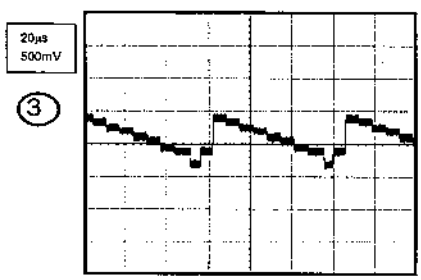
②



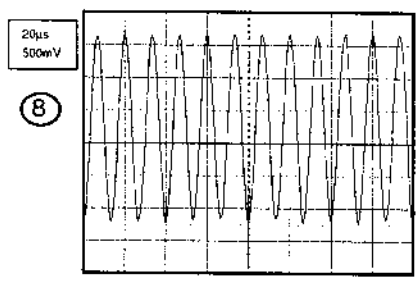
⑦



⑫

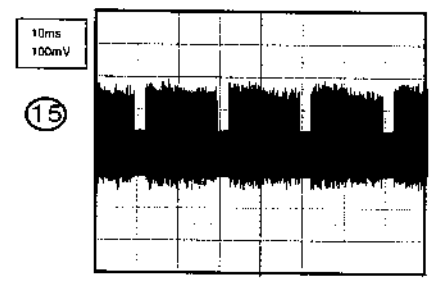


③

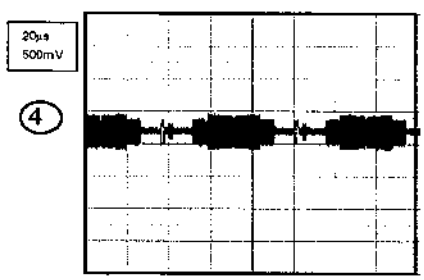


⑧

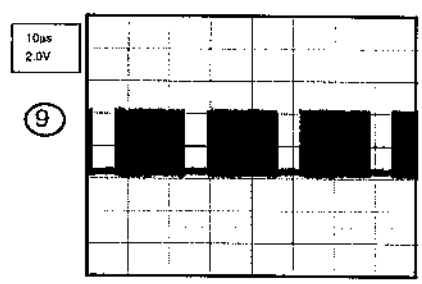
LVDS



⑮

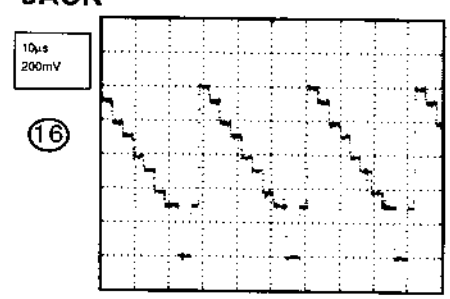


④



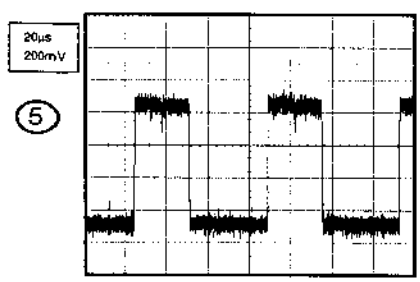
⑨

JACK

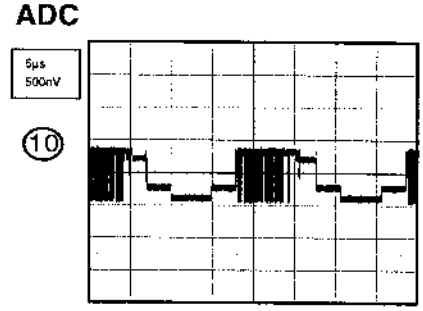


⑯

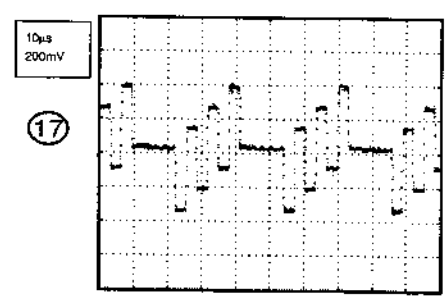
ADC



⑤



⑩



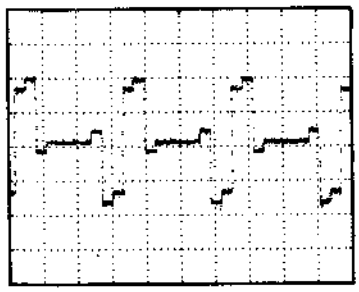
⑰

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

WAVEFORMS

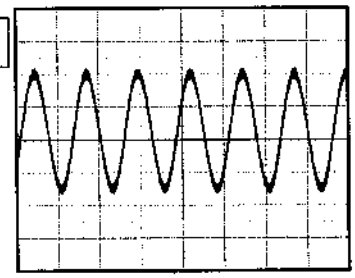
10μs
200mV

(18)



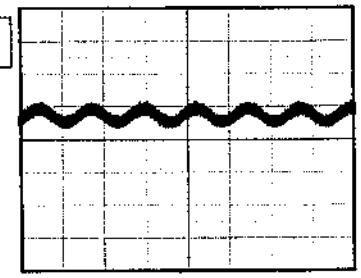
2.0ms
500mV

(25)



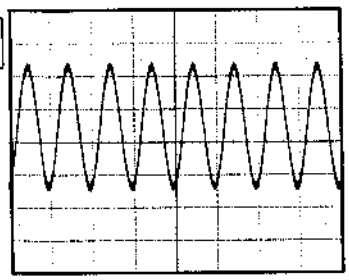
2.0ms
2.0V

(30)



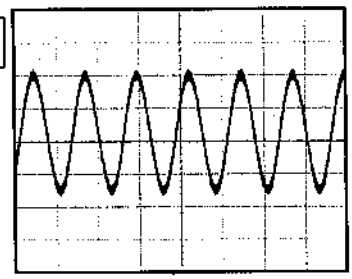
1.0ms
1.0V

(19)



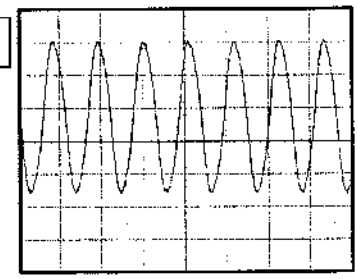
2.0ms
500mV

(26)



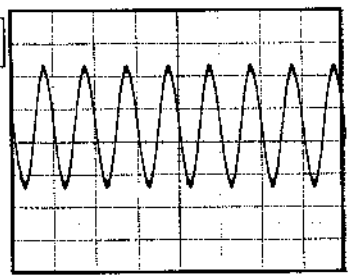
50ns
500mV

(31)



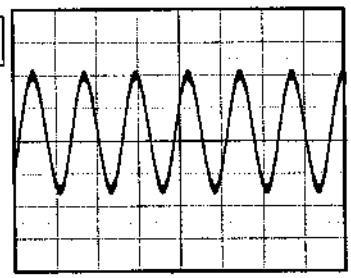
1.0ms
1.0V

(20)



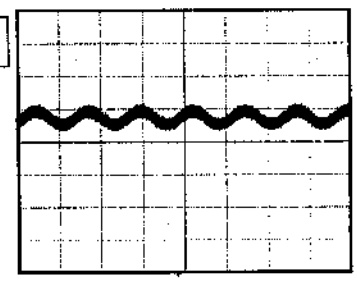
2.0ms
500mV

(27)



2.0ms
2.0V

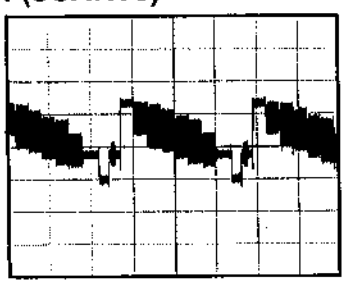
(32)



21PIN (SCART3)

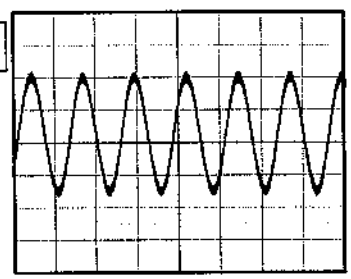
20μs
500mV

(23)



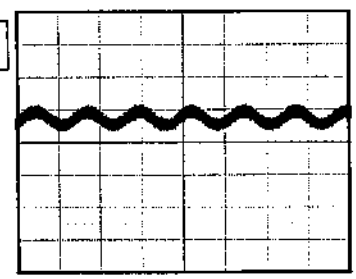
2.0ms
500mV

(28)



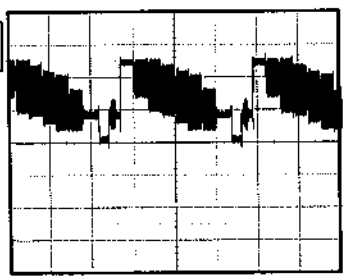
2.0ms
2.0V

(33)



20μs
1.0V

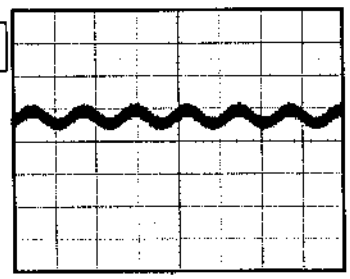
(24)



STEREO

2.0ms
2.0V

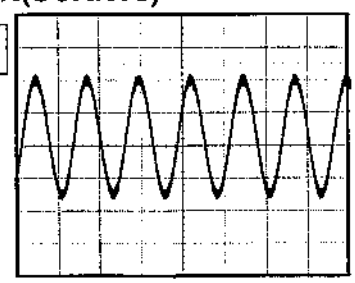
(29)



21PIN(SCART3)

2.0ms
500mV

(34)

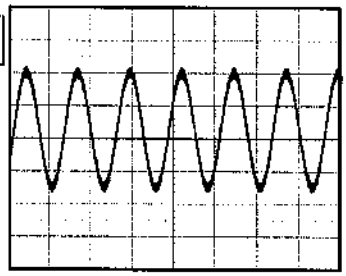


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

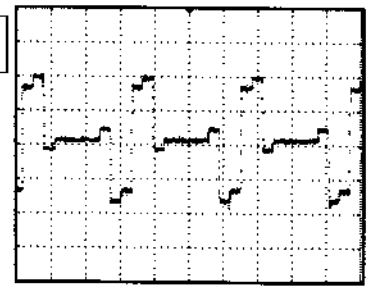
2.0ms
500mV

(35)



10µs
200mV

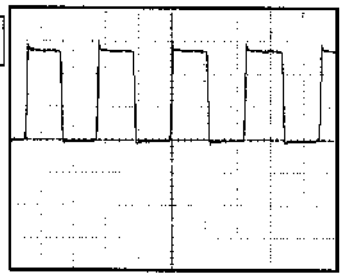
(40)



SOUND AMP

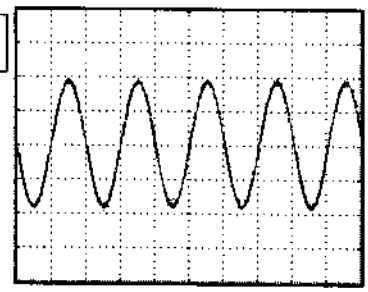
500ns
5.0V

(36)



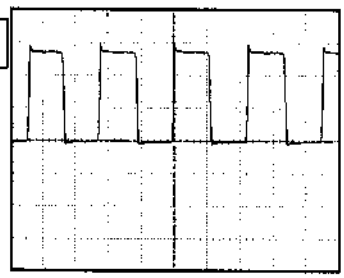
500µs
200mV

(41)



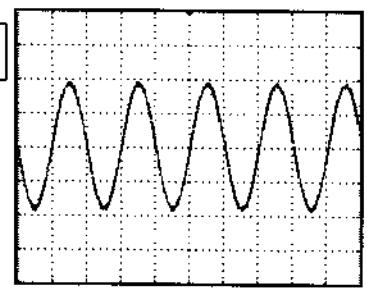
500ns
5.0V

(37)



500µs
200mV

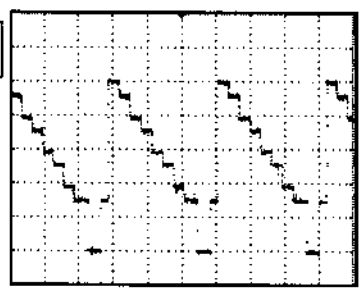
(42)



INTERFACE

10µs
200mV

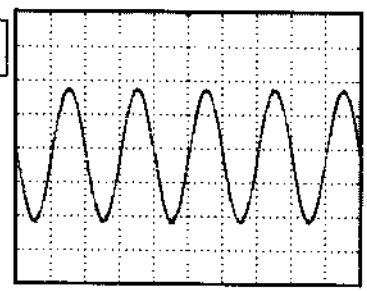
(38)



MICON2

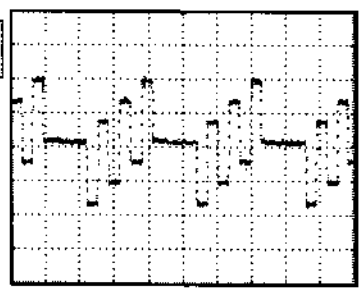
500µs
1.0V

(43)



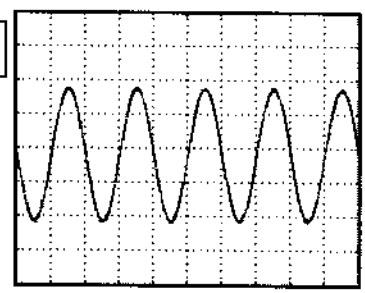
10µs
200mV

(39)



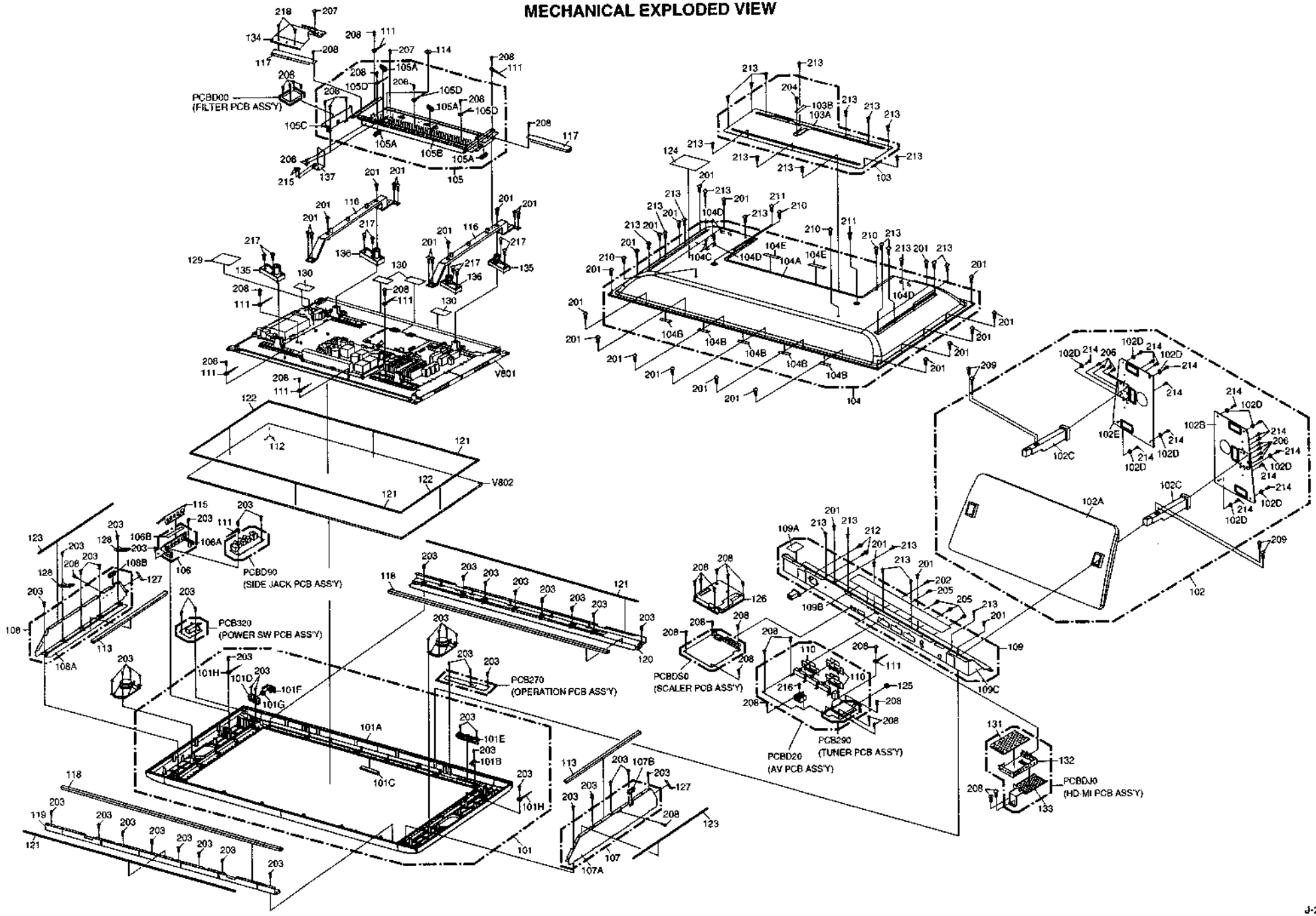
500µs
1.0V

(44)



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

MECHANICAL EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
101	7A7010170A	FRONT CABI ASS'Y	
101A	701WPJ1396	CABINET,FRONT	
101B	713WPA0365	GLASS,LED	
101C	7232020787	BADGE,BRAND	
101D	738WPA0171	STOPPER,BUTTON	
101E	738WPB0069	BUTTON,FRAME	
101F	738WPB0061	BUTTON,POWER	
101G	743WKA0040	SPRING,BUTTON	
101H	899EFBA002	WIRING-CLIP	
102	7A7040010A	STAND ASS'Y	
102A	704WPB0011	STAND	
102B	761WSA0307	ANGLE,STAND(R)	
102C	761WSB0019	FRAME,BOTTOM	
102D	800WRA0006	CUSHION,LEG	
102E	761WSA0308	ANGLE,STAND(L)	
103	7G7610029A	COVER,BACK ASS'Y	
103A	761WSB0014	COVER,BACK	
103B	702WPAA893	COVER,CONNECTOR	
104	7A7020059B	BACK CABI ASS'Y	
104A	702WSB0127	CABINET,BACK	
104B	800WQ0A120	FELT,SHEET	
104C	8965TS2045	CUSHION W6/H2/L45	
104D	8965TS2095	CUSHION W6/H2/L95	
104E	890MP2401B	TAPE	100x12
105	7G7520019A	ANGLE,PCB ASS'Y	
105A	709WPA0038	HOLDER,CORD	
105B	762WSA0069	ANGLE,PCB	
105C	762WSA0062	ANGLE,CENTER	
105D	899EFBA002	WIRING-CLIP	
106	7A7010171A	PLATE,JACK-SIDE ASS'Y	
106A	711WPA0234	PLATE,JACK-SIDE	
106B	7230008061	SHEET,JACK-SIDE	
107	7G7520016A	SHIELD,MAIN-L ASS'Y	
107A	762WSA0057	SHIELD,MAIN-L	
107B	709WPA0038	HOLDER,CORD	
108	7G7520014A	SHIELD,MAIN-R ASS'Y	
108A	762WSA0058	SHIELD,MAIN-R	
108B	709WPA0038	HOLDER,CORD	
109	7G7610032A	PLATE,JACK ASS'Y	
109A	7230008062	SHEET,AC INLET	
109B	7230008049	SHEET,JACK	
109C	761WSB0021	PLATE,JACK	
110	761WSA0212	SHIELD 21PIN	
111	899EFBA002	WIRING-CLIP	
112	7230008052	SHEET,POWER LABEL	
113	800WFA0080	CUSHION	
114	7260000353	SHEET,EARTH MARK	
115	752WSA0510	SHIELD,JACK-SIDE	
116	761WEA0002	FRAME,MAIN	
117	761WSA0315	ANGLE,SHIELD	
118	800WFA0079	CUSHION	
119	762WSAA006	SHIELD,MAIN-TOP	
120	762WSAA007	SHIELD,MAIN-BOTTOM	
121	8965TS2A15	CUSHION W6/H2/L1015	
122	8965TS2550	CUSHION W6/H2/L550	
123	8965TS2710	CUSHION W6/H2/L710	
124	7222022706	SHEET,RATING	
125	743WKAA011	SPRING TUNER	
126	752WSA0529	SHIELD,SCALER	
127	8965TS1060	CUSHION W10/H10/L60	
128	752WSA0519	SPRING,EARTH	
129	890MP2401A	TAPE	50x35

REF. NO.	PART NO.	DESCRIPTION	
130	890201FR50	TAPE	100x50
131	752WSA0413	HDMI SHIELD,COVER	
132	752WSA0414	HDMI SHIELD,BOTTOM	
133	762WSA0060	ANGLE,HDMI	
134	752WSA0649	SHIELD,PLATE	
135	761WPA0409	HOLDER,PANEL 1	
136	761WPA0410	HOLDER,PANEL 2	
137	761WSA0286	ANGLE,PANEL	
201	8117540A6U	SCREW TAP TITE(B0) TRUSS	4x16
202	810213080U	SCREW,PAN	M3x8
203	8110630A0U	SCREW TAP TITE(P) BRAZIER	3x10
204	810763080U	SCREW TAP TITE(S) BRAZIER	3x8
205	810923080U	SCREW TAP TITE(B) BIND	3x8
206	810A140A0U	SCREW,WASHER(A)	M4x10
207	810C14080U	SCREW WASHER C	4x8
208	810B13080U	SCREW,WASHER(B)	M3x8
209	810B150B0U	SCREW,SEMS(B)	5x20
210	810B150A0U	SCREW,SEMS(B)	5x10
211	810B140A0U	SCREW,SEMS(B)	4x10
212	810233080U	SCREW,FLAT	M3x8
213	810F23060U	SEMS(F)-R BIND	3x6
214	8165140A6U	SCREW,TAPPING (BO)	4x16
215	810763060U	SCREW TAP TITE(S) BRAZIER	3x6
216	8109I3080U	SCREW TAP TITE(B) WH7	3x8
217	810A14080U	SCREW,WASHER(A)	M4x8
218	810F13080U	SEMS(F)	3x8
—	7230008050	SHEET,CARTON	
---	791WHA0117	LAMI,BAG	
---	791WHA0118	LIGHTRON,SHEET	
---	792WHA0634	PACKAGE,TOP	
---	792WHA0635	PACKAGE,BOTTOM	
—	793WCD1658	GIFT,BOX BOTTOM	
---	793WCD1710	GIFT,BOX TOP	
---	794WHAA003	HANDLE	or
	794WHA0006	HANDLE	
---	A3W103B975	INSTRUCTION BOOK KIT	
---	J3W10301A	INSTRUCTION BOOK(G)	
---	J3W10310A	INSTRUCTION BOOK(CZ)	
---	J3W10311A	INSTRUCTION BOOK(F)	
---	J3W10314A	INSTRUCTION BOOK(H)	
---	JB5ND400	POLYBAG INSTRUCTION(RED CAUTION)	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		
		RESISTORS		
R3820	R3X28BR33J	R,METAL OXIDE	0.33 OHM 3W	
⚠ R3900	R0G302155K	RC	1.5M OHM 1/2W	
		CAPACITORS		
C3801	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3802	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3810	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3825	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3826	E62FF2102M	CE	1000 UF 16V	or
	E61FF2102D	CE	1000 UF 16V	
C3900	P2122B684M	CMP	0.68 UF 275V ECQUL	
		DIODES		
D105	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D109	DD7R20S300	DIODE,SCHOTTKY BARRIER	RB520S-30-TE61	
D300	D28R11FS20	DIODE	EC11FS2-TE12L	
D302	D28R1QS040	DIODE	EC31QS04-TE12L	
D303	D28R1QS040	DIODE	EC31QS04-TE12L	
D304	D28R1QS040	DIODE	EC31QS04-TE12L	
D305	D28R1QS040	DIODE	EC31QS04-TE12L	
D308	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77	
D802	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D803	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D804	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D805	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D901	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77	
D2201	0021E9Q010	LED	LTL-1BEFJ-002A	
D3206	D28R1QS040	DIODE	EC31QS04-TE12L	
D3207	D28R1QS040	DIODE	EC31QS04-TE12L	
D3601	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3602	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D3603	D77R1A1R10	DIODE,VARISTA	AVRL161A1R1NT	
D3604	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3605	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25	
D3609	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3613	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17	
D3801	D1VT001330	DIODE,SILICON	1SS133T-77	
D3802	D28T21DQN4	DIODE,SCHOTTKY	21DQ04N-TA2B1	
D3804	D28T0ERB20	DIODE,RECTIFIER	10ERB20-TA1B2	
D3806	D2WXN40050	DIODE,SILICON	1N4005-EIC	
D4205	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4206	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4207	D97U04R71B	DIODE,ZENER	MTZJ4.7B T-77	
D4208	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4209	D1VT001330	DIODE,SILICON	1SS133T-77	
D4210	D97U01201B	DIODE,ZENER	MTZJ12B T-77	
D4301	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
D4302	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17	
		ICS		
IC101	I56F07137A	IC	OEC7137A	
IC102	I9UF032290	IC	PST3229NR	
IC104	S3W103BE01	MEMORY DATA	AT24C256N-10SU-2.7	
IC300	I0QJP21510	IC	NJM2151AV	
IC301	I1MFPA2020	IC	TA2024-ASE	
IC801	I56K04A710	IC	R8J66604A71FP	
IC901	I0UF015010	IC	MM1501XNRE	
IC902	I0UF015010	IC	MM1501XNRE	
IC904	I19FF341C0	IC	MSP3410G-QA-C12-001	
IC2101	IFSK0883C0	IC	MST9883C-LF-110	
⚠ IC3201	I07F0C0WF0	IC	BA00BC0WFP-E2	
⚠ IC3202	I07F0C0WF0	IC	BA00BC0WFP-E2	
IC3601	I1KF98D330	IC	KIA78D33F	
IC3602	I1KF98D330	IC	KIA78D33F	
IC3604	I0QJ045800	IC	NJM4580M(TE1)	
IC3605	I5PF099930	IC	SII9993CTG100	
IC3606	S3W103BE02	MEMORY DATA	BR24L02F-WE2	
IC3607	I1FF043340	IC	CS4334-KSZR	
IC3608	S3W103BE03	MEMORY DATA	BR24L32F-WE2	
IC3611	ICMF0E58R0	IC	SST89E58RD2-40-C-TQJE	
IC3612	I5CF01G080	IC	SN74AHC1G08DCKR	
IC3801	I1LF010100	IC	AL1010	
⚠ IC3804	I0GA9XF010	IC	PQ070XF01SZH	
IC3805	I1KA78R090	IC	KIA278R09PI	
IC4201	I01F05853B	IC	AN15853B-E1	
IC4202	I0UF015010	IC	MM1501XNRE	

REF. NO.	PART NO.	DESCRIPTION		
		ICS		
IC4203	I0UF015010	IC	MM1501XNRE	
IC4204	I0QF025840	IC	NJM2584AM(TE1)	
IC4205	I0CF040530	IC	CD74HC4053PWR	
IC4301	I0UF015010	IC	MM1501XNRE	
IC4302	I0UF015010	IC	MM1501XNRE	
IC4304	I0QF02534V	IC	NJM2534V(TE2)	
IC4305	I0QF02534V	IC	NJM2534V(TE2)	
IC7201	IFKJ0LM850	IC	DTC34LM85AL	
IC8102	I05FE13080	IC	TB1308FG(DRY,EL)	
IC8103	I0UF015010	IC	MM1501XNRE	
IC8150	I0QF02534V	IC	NJM2534V(TE2)	
IC8151	I0QF02534V	IC	NJM2534V(TE2)	
IC8152	I0QF02534V	IC	NJM2534V(TE2)	
		TRANSISTORS		
Q101	TNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK	or
	TNYJC05001	COMPOUND TRANSISTOR	DTC124EKAT146	
Q102	T27T030180	FET	2SK3018T106	
Q103	T27T030180	FET	2SK3018T106	
Q105	TPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK	or
	TPYJC05001	COMPOUND TRANSISTOR	DTA124EKAT146	
Q300	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q301	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q302	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q801	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q802	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q901	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q902	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q2101	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q3205	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3206	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	
Q3207	T77J011320	TRANSISTOR,SILICON	2SB1132T100(Q,R)	
Q3208	TNAAB05003	COMPOUND TRANSISTOR		
Q3603	T27T030180	FET	2SK3018T106	
Q3604	T27T030180	FET	2SK3018T106	
Q3605	T27T030180	FET	2SK3018T106	
Q3606	T27T030180	FET	2SK3018T106	
Q3607	T27T030180	FET	2SK3018T106	
Q3608	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK	
Q3609	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3610	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3611	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3612	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q3613	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	
Q3801	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q3806	TJ7M50P030	FET	RSS050P03_TB	
Q4200	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4201	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK	or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q4203	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4205	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4206	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4207	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4208	T27T030180	FET	2SK3018T106	
Q4209	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4210	T27T030180	FET	2SK3018T106	
Q4211	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4212	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4213	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK	or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1	
Q4215	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4216	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	
Q4217	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK	or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		TRANSISTORS	
Q4218	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4219	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4221	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q4225	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4226	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4229	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146
Q4230	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146
Q4232	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK or
	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146
Q4233	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4301	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4302	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q4304	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q4305	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8101	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q8102	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8103	TCAA3875SY	TRANSISTOR,SILICON	KTC3875S_Y_RTK or
	T8RA030520	TRANSISTOR,SILICON	2SC3052-T1
Q8105	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK or
	T6RA015300	TRANSISTOR,SILICON	2SA1530A-T1
Q8106	TAAA1504SY	TRANSISTOR,SILICON	KTA1504S_Y_RTK or
	T8RA015300	TRANSISTOR,SILICON	2SA1530A-T1
		COILS &TRANSFORMERS	
L300	021W0G100M	COIL	10 UH
L301	021W0G100M	COIL	10 UH
L302	021W0G100M	COIL	10 UH
L303	021W0G100M	COIL	10 UH
L901	02167F100J	COIL	10 UH
L902	02167F270J	COIL	27 UH
L903	02167F100J	COIL	10 UH
L904	02167F100J	COIL	10 UH
L2101	0216S8220K	COIL	F 22 UH
L2102	0216S8220K	COIL	F 22 UH
L2103	0216S8470K	COIL	F 47 UH
L2106	0216S45R6J	COIL	5.6 UH
L2107	0216S8220K	COIL	F 22 UH
L3601	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3602	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3603	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3604	02D6000068	COIL,CHOKE	ACM2012D-900-2P-T00
L3801	02167E100K	COIL	R6-1 10 UH
L3802	02167E220K	COIL	R7 22 UH
L3803	02167E220K	COIL	R7 22 UH
L3804	02167E220K	COIL	R7 22 UH
L3805	0214646R8M	COIL	6.8 UH or
	0214644R7M	COIL	4.7 UH
L3806	021404150M	COIL	50A 15 UH
L3807	02167E100K	COIL	R6-1 10 UH
L3809	0214646R8M	COIL	6.8 UH or
	0214644R7M	COIL	4.7 UH
L3810	02167E100K	COIL	R6-1 10 UH
⚠ L3900	029X000138	COIL,LINE FILTER	SN12-500
⚠ L3901	029X000138	COIL,LINE FILTER	SN12-500
L4200	021LA6220J	COIL	22 UH
L4202	02167F470J	COIL	47 UH
L4203	02167F470J	COIL	47 UH
L4206	02167F470J	COIL	47 UH
L4207	02167F470J	COIL	47 UH
L4209	021LA6220J	COIL	22 UH
L4210	021LA6220J	COIL	22 UH
L4211	021LA6220J	COIL	22 UH
L4212	021LA6220J	COIL	22 UH
L4213	021LA6220J	COIL	22 UH
L4214	021LA6220J	COIL	22 UH
L4219	02167F100J	COIL	10 UH
L4220	02167F100J	COIL	10 UH

REF. NO.	PART NO.	DESCRIPTION	
		COILS &TRANSFORMERS	
L4224	02167F100J	COIL	10 UH
L4225	02167F470J	COIL	47 UH
L4226	02167F470J	COIL	47 UH
L4227	021LA6220J	COIL	22 UH
L4228	021LA6220J	COIL	22 UH
L4229	021LA6220J	COIL	22 UH
L4232	02167F100J	COIL	10 UH
L4236	02167F470J	COIL	47 UH
L4301	0216S8470K	COIL	F 47 UH
L4306	0216S8220K	COIL	F 22 UH
L4307	0216S8220K	COIL	F 22 UH
L7201	0216S8470K	COIL	F 47 UH
L7202	0216S8470K	COIL	F 47 UH
L7203	0216S8470K	COIL	F 47 UH
L8102	0216S8470K	COIL	F 47 UH
L8103	0216S8470K	COIL	F 47 UH
L8104	0216S8470K	COIL	F 47 UH
L8105	0216S8220K	COIL	F 22 UH
L8150	0216S8470K	COIL	NLCV32T-470K-PF
		JACKS	
J3601	060J421037	RCA JACK	MTJ-032-05A-32-FE
J3602	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4200	0602131008	HEADPHONE JACK	HSJ0913-01-140
J4203	060J411034	RCA JACK	MSP-242V2-01NI-FE_LF
J4204	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4205	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4206	063D700010	JACK	MDC-012V1-A_LF
J4207	060J401104	RCA JACK	MTJ-032-03A-30FE
J4208	060J401106	RCA JACK	MTJ-032-03A-32FE
J4209	060J401105	RCA JACK	MTJ-032-03A-31FE
J4210	063D100050	SOCKET,21PIN	MRC-021V-07_A
J4301	060J131019	HEADPHONE JACK	MSJ-2000B_AG(087)
J4302	060J421037	RCA JACK	MTJ-032-05A-32-FE
J4303	060J421030	RCA JACK	MTJ-032-05A-31-FE
J4304	060J421044	RCA JACK	MTJ-032-05A-50-FE
J4305	060J421043	RCA JACK	MTJ-032-05A-29-FE
J4306	060J421030	RCA JACK	MTJ-032-05A-31-FE
		SWITCHES	
⚠ SW500	0530105019	SWITCH	ESB92S22B
SW2201	0504101T34	SWITCH,TACT	EVQ21505R
SW2202	0504101T34	SWITCH,TACT	EVQ21505R
SW2203	0504101T34	SWITCH,TACT	EVQ21505R
SW2204	0504101T34	SWITCH,TACT	EVQ21505R
SW2205	0504101T34	SWITCH,TACT	EVQ21505R
SW2206	0504101T34	SWITCH,TACT	EVQ21505R
		P.C.BOARD ASSEMBLIES	
PCB270	A3W103B270B	PCB ASS'Y	CEE125A
PCB290	A3W103B290B	PCB ASS'Y	CEE128A
PCB320	A3W103B320B	PCB ASS'Y	CEE126A
PCBD00	A3W103BD00B	PCB ASS'Y	CEE124A
PCBD20	A3W103BD20B	PCB ASS'Y	CME069A
PCBD90	A3W103BD90B	PCB ASS'Y	CEE127A
PCBDJ0	A3W103BDJ0B	PCB ASS'Y	CED011A
PCBDS0	A3W103BDS0B	PCB ASS'Y	CEE087A
		MISCELLANEOUS	
B801	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B802	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B803	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B804	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B805	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B2101	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B3201	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3202	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3203	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3204	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3205	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3206	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3207	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3601	024HC36001	CORE,BEADS	HCB2012K-600T25
B3602	024HC36001	CORE,BEADS	HCB2012K-600T25
B3603	024HC36001	CORE,BEADS	HCB2012K-600T25
B3604	024HC36001	CORE,BEADS	HCB2012K-600T25
B3608	024HC36001	CORE,BEADS	HCB2012K-600T25
B3609	024HC36001	CORE,BEADS	HCB2012K-600T25
B3610	024HC31022	CORE,BEADS	FCM2012H-102T04
B3611	024HC31022	CORE,BEADS	FCM2012H-102T04
B3801	024HT03553	CORE,BEADS	W5RH3.5X5X1.0

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
B4200	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4204	024AC5601F	CORE,BEADS	BLM18BD601SN1D
B4205	024AC5601F	CORE,BEADS	BLM18BD601SN1D
B4206	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4207	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B4208	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4209	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4210	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4300	0246C51024	CORE,BEADS	MMZ1608R102CT
B4301	0246C51024	CORE,BEADS	MMZ1608R102CT
B4302	0246C51024	CORE,BEADS	MMZ1608R102CT
B4303	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4304	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4305	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4306	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4307	0246C51024	CORE,BEADS	MMZ1608R102CT
B4308	0246C51024	CORE,BEADS	MMZ1608R102CT
B4309	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4310	024AC5600E	CORE,BEADS	BLM18BB600SN1D
B4316	0246C51024	CORE,BEADS	MMZ1608R102CT
B6002	024AC5601F	CORE,BEADS	BLM18BD601SN1D
B6511	024AC5601F	CORE,BEADS	BLM18BD601SN1D
B7201	024AC5600E	CORE,BEADS	BLM18BB600SN1D
BT001	141R004016	BATTERY,MANGAN	GR03X-SP2 or
	1412004013	BATTERY,MANGAN	R03(AB)2PXGPI
BT002	141R004016	BATTERY,MANGAN	GR03X-SP2 or
	1412004013	BATTERY,MANGAN	R03(AB)2PXGPI
CD001	06E2YB0003	CABLE	YAF11-1188N
CD301	06CU138101	CORD,CONNECTOR	CU138101
CD303	06CU12A301	CORD,CONNECTOR	CU12A301
CD803	06CUZV5501	CORD,CONNECTOR	CUZV5501
CP101	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP102	069S2A0629	CONNECTOR PCB SIDE	A2001WV2-10P
CP103	069S270629	CONNECTOR PCB SIDE	A2001WV2-7P
CP300	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK
CP301	069S130419	CONNECTOR PCB SIDE	A2502WV2-3P
CP303	069S120419	CONNECTOR PCB SIDE	A2502WV2-2P
CP801	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+
CP802	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+
CD2201	06CU23A001	CORD,CONNECTOR	CU23A001
CD3601	06CU1K1403	CORD,CONNECTOR	CU1K1403
CD3800	06CUU37101	CORD,CONNECTOR	CUU37101
CD3807	06CU2B1501	CORD,CONNECTOR	CU2B1501
CD3808	06CUU37101	CORD,CONNECTOR	CUU37101
⚠ CD3810	120G054801	CORD,AC	0G054801
CD3822	06CU1A2401	CORD,CONNECTOR	CU1A2401
CD3823	06CU1B2401	CORD,CONNECTOR	CU1B2401
CD3831	06CU012202	CORD,CONNECTOR	CU012202
CD3832	06CUU21001	CORD,CONNECTOR	CUU21001
CD4201	06CU28A002	CORD,CONNECTOR	CU28A002
CD4202	06CU257901	CORD,CONNECTOR	CU257901
CD4203	122H0T0801	CORD,JUMPER	2H0T0801
CD4204	122H0U0802	CORD,JUMPER	2H0U0802
CD4205	06CU25A103	CORD,CONNECTOR	CU25A103
CD4206	122A312101	CORD,JUMPER	2A312101
CP2200	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P
CP2201	069S250639	CONNECTOR PCB SIDE	A2001WR2-5P
CP2203	069S230639	CONNECTOR PCB SIDE	A2001WR2-3P
CP3201	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP3601	069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA
CP3604	069S290639	CONNECTOR PCB SIDE	A2001WR2-9P
CP3800	069432001A	CONNECTOR PCB SIDE	3-176976-1
CP3807	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP3808	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD
CP3822	069S1A0019	CONNECTOR PCB SIDE	A2501WV2-10P
CP3823	069S1B0019	CONNECTOR PCB SIDE	A2501WV2-11P
CP3831	064D1A0008	EMI FILTER	06GEEG3Q(02)
⚠ CP3900	069S320419	CONNECTOR PCB SIDE	A3963WV2-3PD
⚠ CP3901	069432001A	CONNECTOR PCB SIDE	3-176976-1
CP4200	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
CP4201	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
CP4202	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP4203	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+
CP4204	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+
CP4205	069S250620	CONNECTOR PCB SIDE	A2001WV2-5P-BLK
CP4301	069S1K0019	CONNECTOR PCB SIDE	A2501WV2-20P
CP4302	0694S15017	CONNECTOR PCB SIDE	1-1734344-1

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
CP6001	06CK7D0301	CORD,CONNECTOR	TWG-P13P-A1
CP6002	06977DM020	CONNECTOR PCB SIDE	127301113K2
CP7206	069HTR001A	CONNECTOR PCB SIDE	FI-TWE31PB-VF
ELD001	124116281A	EYE LET	XRY16X28BD
ELD002	124120301A	EYE LET	XRY20X30BD
NR801	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR802	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR803	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR804	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR805	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR806	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR807	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR2101	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2102	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2103	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2104	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2105	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2106	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR7201	110P4220M4	R,NETWORK	4D03WGJ0220T5E
NR7202	110P4220M4	R,NETWORK	4D03WGJ0220T5E
OS2200	0773071006	REMOTE RECEIVER	RPM7138-SH8
⚠ SP301	0701016002	SPEAKER	EAS12D175B
⚠ SP302	0701016002	SPEAKER	EAS12D175B
TM101	076R0MB010	TRANSMITTER	R56-0972
TR301	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR302	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR4205	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR4206	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR6501	02A6C0A3Y1	CORE FERRITE	ZCAT3035-1330
TR6502	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
⚠ TU6001	0163Y03003	RF UNIT	TAFM-W122D_C
V801	09HF142002	PDP	S42AX-YD01
V802	09JG142001	PDP FILTER	PM00UZ004
X101	100WT01611	CRYSTAL	HC-49/U-S
X601	100YT05401	CRYSTAL	FCX-03
X901	100CT01803	CRYSTAL	HC-49/U-S
X3601	100CT01101	CRYSTAL	HC-49/U-S
X8101	100CT3R536	CRYSTAL	HC-49/U

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

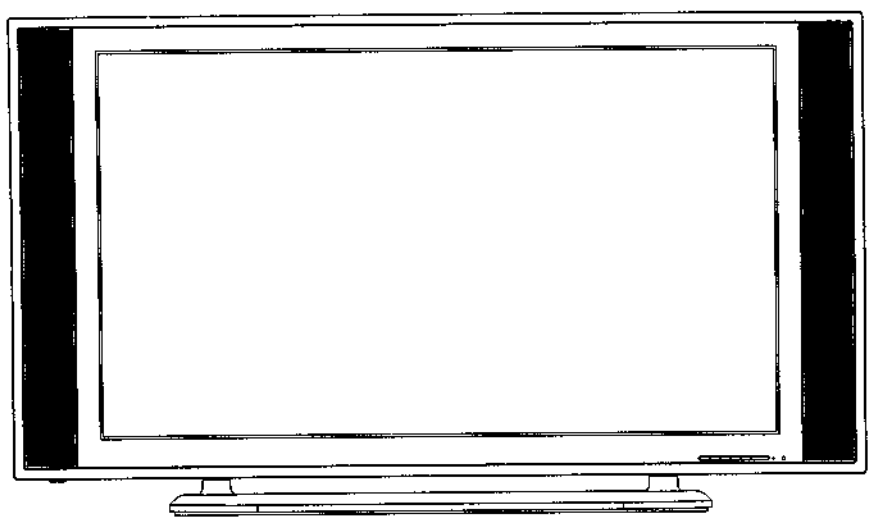
SPEC.NO.	M3W1-03B
O/R NO.	U5X3515

ORION

TV-42400 SI

SERVICE MANUAL

42" PLASMA COLOR TELEVISION



SUPPLEMENT
CHASSIS CODE A

This SUPPLEMENT must be used together SERVICE MANUAL for TV-42200 SI.
All other test and repair procedures are as shown in the ORIGINAL MANUAL.
Please file this SUPPLEMENT with the ORIGINAL VERSIONS.

MECHANICAL REPLACEMENT PARTS LIST

REF. NO	TV-42200 SI		TV-42400 SI	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
101	7A7010170A	FRONT CABI ASS'Y	7A701A636A	FRONT CABI ASS'Y
101A	701WPJ1396	CABINET,FRONT	701WPJD221	CABINET FRONT
101E	738WPB0069	BUTTON,FRAME	738WPBA159	BUTTON FRAME
124	7222022706	SHEET,RATING	722202A964	SHEET RATING
---	7230008050	SHEET,CARTON	723000D212	SHEET CARTON
---	JB5ND400	POLYBAG INSTRUCTION(RED CAUTION)	JB5XD500	POLYBAG INSTRUCTION(RED CAUTION)
---		———	JB5XD600	POLYBAG INSTRUCTION(RED CAUTION)
---	J3W10301A	INSTRUCTION BOOK(G)	J3W10601A	INSTRUCTION BOOK(G)
---	J3W10310A	INSTRUCTION BOOK(CZ)	J3W10610A	INSTRUCTION BOOK(CZ)
---	J3W10311A	INSTRUCTION BOOK(F)	J3W10611A	INSTRUCTION BOOK(F)
---	J3W10314A	INSTRUCTION BOOK(H)	J3W10614A	INSTRUCTION BOOK(H)
---	A3W103B975	INSTRUCTION BOOK KIT	A3W106B975B	INSTRUCTION BOOK KIT

SPEC. NO.	M3W1-06B
O/R NO.	U613501

ORION

TV-42200 SI

SERVICE MANUAL

COLOR TELEVISION RECEIVER

REVISION 1
CHASSIS CODE B

CHASSIS CODE	FUNCTION
A	-
B	CINEMA MODE

Please file the revision with the original version.

ADD : CINEMA MODE

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	CHASSIS CODE A		CHASSIS CODE B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
----	J3W10301A	INSTRUCTION BOOK(G)	J3W12001A	INSTRUCTION BOOK(G)
----	J3W10310A	INSTRUCTION BOOK(CZ)	J3W12010A	INSTRUCTION BOOK(CZ)
----	J3W10311A	INSTRUCTION BOOK(F)	J3W12011A	INSTRUCTION BOOK(F)
----	J3W10314A	INSTRUCTION BOOK(H)	J3W12014A	INSTRUCTION BOOK(H)
----	A3W103B975	INSTRUCTION BOOK KIT	A3W120B975	INSTRUCTION BOOK KIT

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	CHASSIS CODE A		CHASSIS CODE B	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
TM101	076R0MB010	TRANSMITTER R56-0972	076R0MM010	TRANSMITTER R56-1201

WHEN REPLACING EEPROM (MEMORY) IC

INIT	CHASSIS CODE A	CHASSIS CODE B
	DATA	DATA
19	00	AA
1F	08	88
2B	00	2C
2C	00	31
2D	00	51
2E	00	58
2F	00	5A
30	00	62
31	00	63
32	00	69
33	00	6A
34	00	77
35	00	7E
36	00	95
DA	01	02
DC	2C	26
DE	74	78
DF	6C	6B
E0	A4	AC
E2	C1	D6
E4	F6	FA
E5	8C	0A
E6	84	86
E7	84	86
EA	15	05
EC	92	A6

SPEC.NO.	M3W1-20B
O/R NO.	U633504