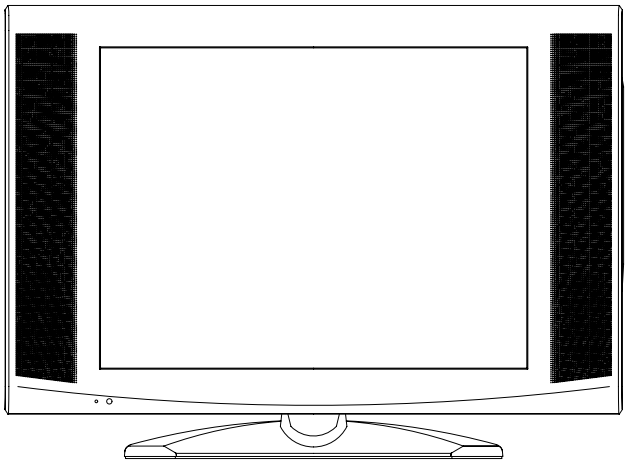
AKAI

CFTD2052

SERVICE MANUAL

LCD COLOR TELEVISION/DVD VIDEO PLAYER



ORIGINAL
MFR'S VERSION A

CAUTION

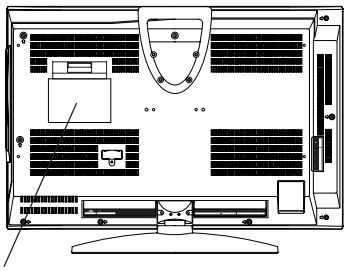
THIS LCD COLOR TELEVISION EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS SERVICE MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

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

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

Location of the required Marking
The rating sheet and the safety caution are on the rear of the unit.



CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.

PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity.
Moreover, even if it is operating normally after repair when static electricity discharge is received at the time of repair, the life of the product may be shortened.
Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

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

2. AVOID AN ELECTRIC SHOCK

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

3. USE THE DESIGNATED PARTS

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

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

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

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

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

6. AVOID AN X-RAY

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

7. PERFORM A SAFETY CHECK AFTER SERVICING

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

(INSULATION CHECK PROCEDURE)

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

[Note 1]

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

[Note 2]

External exposure metal: Antenna terminal
Earphone jack

HOW TO ORDER PARTS

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

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

IMPORTANT SAFEGUARDS

1. **READ INSTRUCTIONS**
   All the safety and operating instructions should be read before the unit is operated.
2. **RETAIN INSTRUCTIONS**
   The safety and operating instructions should be retained for future reference.
3. **HEED WARNINGS**
   All warnings on the unit and in the operating instructions should be adhered to.
4. **FOLLOW INSTRUCTIONS**
   All operating and use instructions should be followed.
5. **CLEANING**
   Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. **ATTACHMENTS**
   Do not use attachments not recommended by the unit's manufacturer as they may cause hazards.
7. **WATER AND MOISTURE**
   Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
8. **ACCESSORIES**
   Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer.

PORTABLE CART WARNING
(symbol provided by RETAC)

S3126A

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. **VENTILATION**
   Slots and openings in the cabinet and in the back or bottom are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. **POWER SOURCES**
    This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.
11. **GROUNDING OR POLARIZATION**
    This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. If your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin, this plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
12. **POWER-CORD PROTECTION**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. **LIGHTNING**
    To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.
14. **POWER LINES**
    An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.
15. **OVERLOADING**
    Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.
16. **OBJECT AND LIQUID ENTRY**
    Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

IMPORTANT SAFEGUARDS (CONTINUED)

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the unit.
c. If the unit has been exposed to rain or water.
d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
e. If the unit has been dropped or the cabinet has been damaged.
f. When the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts.
Unauthorized substitutions may result in fire, electric shock or other hazards.

21. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

23. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

24. DISC TRAY

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

25. CONNECTING

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

26. SOUND VOLUME

Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

27. SOUND DISTORTION

Do not allow the product output distorted sound for a longtime. It may cause speaker overheating and fire.

28. HEADPHONES

When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

29. LASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

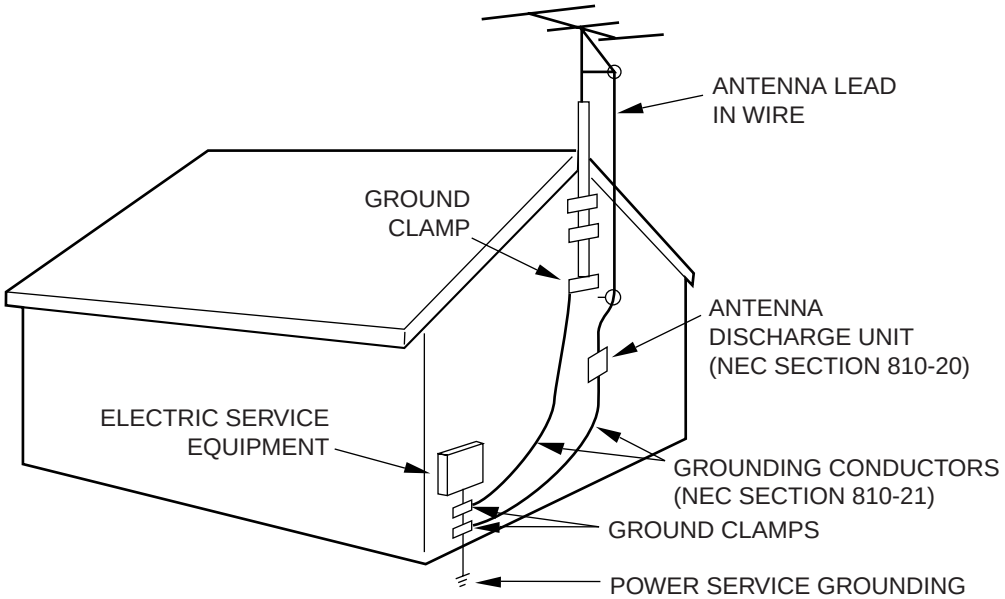
30. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

31. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



NEC-NATIONAL ELECTRICAL CODE

S2898A

DISC REMOVAL METHOD AT NO POWER SUPPLY

1. Remove the Back Cabinet. **(Refer to item 1 of the DISASSEMBLY INSTRUCTIONS.)**
2. Slide the Rack Loading toward the arrow direction by hand to release the lock. **(Refer to Fig. 1)**
3. Take out the Disc from the DVD Deck. Be careful not to scratch on the Disc.

DVD Deck

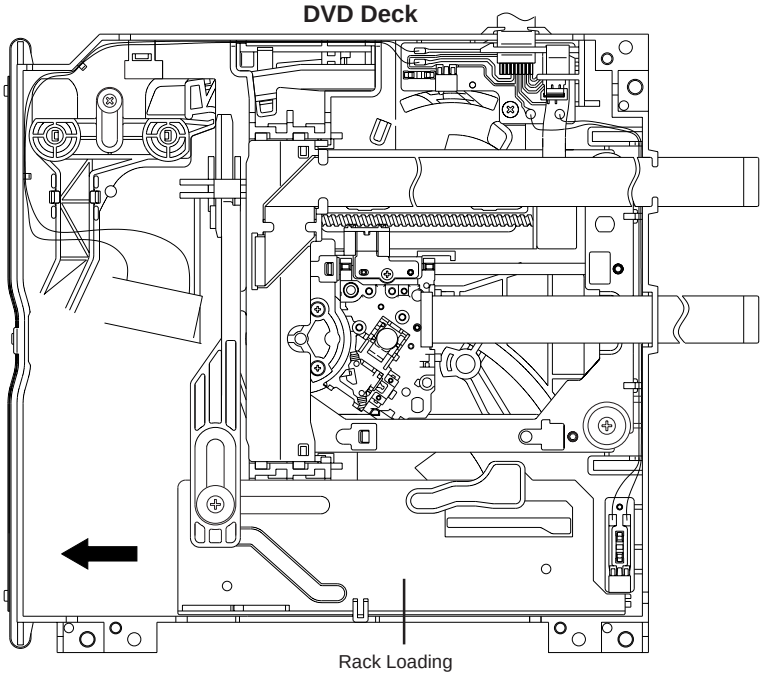


Fig. 1

PARENTAL CONTROL - RATING LEVEL

4 DIGIT PASSWORD CANCELLATION

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

1. Turn Unit ON.
2. Set the DVD mode.
3. Press and hold the '7' key on the remote control unit.
4. Simultaneously press and hold the 'STOP' key on the front panel.
5. Hold both keys for more than 3 seconds.
6. The On Screen Display message 'PASSWORD CLEAR' will appear.
7. The 4 digit password has now been cleared.

CONTENTS

CAUTION A1-1
SERVICING NOTICE ON CHECKING A1-2
HOW TO ORDER PART A1-2
IMPORTANT SAFEGUARDS ..... A1-3~A1-5
DISC REMOVAL METHOD AT NO POWER SUPPLY A1-6
PARENTAL CONTROL - RATING LEVEL A1-6
CONTENTS A2-1
GENERAL SPECIFICATIONS ..... A3-1~A3-6
DISASSEMBLY INSTRUCTIONS
1. REMOVAL OF MECHANICAL PARTS AND P. C. BOARDS ..... B1-1~B1-4
2. REMOVAL OF DVD DECK PARTS ..... B2-1~B2-3
3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC B3-1, B3-2
SERVICE MODE LIST C-1
CONFIRMATION OF HOURS USED C-1
WHEN REPLACING EEPROM (MEMORY) IC C-2
ELECTRICAL ADJUSTMENTS ..... D-1~D-3
BLOCK DIAGRAMS
DVD E-1, E-2
TV E-3, E-4
POWER E-5, E-6
TV POWER E-7, E-8
PRINTED CIRCUIT BOARDS
LCD F-1, F-2
DVD/OPERATION2 ..... F-3,F-4
AV/REMOCON/SIDE JACK/OPERATION1/START SW/END SW F-5, F-6
AV/REMOCON/SIDE JACK/OPERATION1 ..... F-7,F-8
POWER/BACK LIGHT F-9, F-10
SCHEMATIC DIAGRAMS
MPEG/MICON/DSP G-1, G-2
MEMORY2 ..... G-3, G-4
RF AMP G-5, G-6
AUDIO/VIDEO G-7, G-8
MOTOR DRIVE G-9, G-10
REGULATOR2 ..... G-11, G-12
OPERATION2 ..... G-13, G-14
TUNER/STEREO G-15, G-16
MICON G-17, G-18
SOUND AMP G-19, G-20
IN/OUT G-21, G-22
POWER G-23, G-24
OPERATION/AV JACK/REMOCON G-25, G-26
DECODER G-27, G-28
SCALER1 ..... G-29, G-30
SCALER2 ..... G-31, G-32
LVDS G-33, G-34
TV POWER G-35, G-36
INVERTER G-37, G-38
START SW/END SW G-39, G-40
INTERCONNECTION DIAGRAM G-41, G-42
WAVEFORMS ..... H-1~H-3
MECHANICAL EXPLODED VIEWS I1-1, I1-2
DVD DECK EXPLODED VIEWS I2-1, I2-2
MECHANICAL REPLACEMENT PARTS LIST J1-1
DVD DECK REPLACEMENT PARTS LIST J2-1
ELECTRICAL REPLACEMENT PARTS LIST ..... J3-1~J3-3

GENERAL SPECIFICATIONS

G-1	**TV System**	LCD	LCD Size / Visual Size		20.1 inch / 510.0mmV
			LCD Type		Color TFT LCD
			Number of Pixels		640(H) x 480(V)
			View Range	Left/Right	80/80 degree
				Up/Down	70/70 degree
		Color System			NTSC
		Speaker			2 Speaker
			Position		Front
			Size		1.8 x 3.9 inch
			Impedance		16 ohm
		Sound Output	Max		2.5W + 2.5W
			10%(Typical)		---
G-2	**DVD System**	Color System			NTSC
		Disc			DVD, CD-DA, CD-R/RW
					DVD-R/RW (Video Format Only)
		Disc Diameter			120 mm , 80 mm(with Disc Adapter)
		Deck	Disc Loading System		Slot in Type
			Motor		3 Motors
		Pick up			1-Lens 2-Beams System
		Playback time(Max)	DVD 1-Layer		135min (4.7GB)
			DVD 2-Layer		245min (8.5GB)
			CD		74min
			Video CD		--
		Search speed	Fwd		4 step
				Actual	2-45 times (DVD)
					4-40 times (CD)
			Rev		4 step
				Actual	2-45 times (DVD)
					4-40 times (CD)
		Slow speed	Fwd		1/7 -1/2 times
				Actual	--
			Rev		1/7 -1/2 times
				Actual	--
G-3	**Tuning System**	Broadcasting System			US System M
		Tuner and	System		1Tuner
		Receive CH	Destination		US(W/CABLE)
			Tuning System		F-Synth
			Input Impedance		VHF/UHF 75 Ohm
			CH Coverage		2~69, 4A, A-5~A-1, A~I, J~W, W+1~W+84
		Intermediate	Picture(FP)		45.75MHz
		Frequency	Sound(FS)		41.25MHz
			FP-FS		4.50MHz
		Preset CH			No
		Stereo/Dual TV Sound			US-Stereo
		Tuner Sound Muting			Yes
G-4	**Signal**	Video Signal	Input Level		1 V p-p/75 ohm
			Output Level		--
			S/N Ratio (Weighted)		--
			Horizontal Resolution at DVD Mode		--
					--
		RGB Signal	Output Level		--
		Audio Signal	Input Level		-8.0dBm/50k ohm
			Output Level		--
			Digital Output Level		0.5 V p-p/75 ohm
			S/N Ratio at DVD (Weighted)		--
			Harmonic Distortion		--
			Frequency Response :	at DVD	--
				at Video CD	--
				at SVCD	--
				at CD	--
G-5	**Power**	Power Source	AC		120V, 60Hz
			DC		--
		Power Consumption		at AC	77W at 120V 60Hz
				at DC	--
			Stand by (at AC)		1W at 120V 60Hz
			Per Year		-- kWh/Year
		Protector	Power Fuse		Yes

GENERAL SPECIFICATIONS

				Safety Circuit	Yes
				IC Protector(Micro Fuse)	No
G-6	**Regulation**			Safety	UL
				Radiation	FCC
				Laser	DHHS
G-7	**Temperature**			Operation	+5°C ~ +40°C
				Storage	-20°C ~ +60°C
G-8	**Operating Humidity**				Less than 80% RH
G-9	**On Screen Display**	Menu(TV)			Yes
			Menu Type		Icon
			TV Setup		Yes
				Picture	Yes
				Audio	Yes
				Picture Preference	Yes
				Color Temperature	Yes
				Auto Dimmer	No
			CH Tuning		Yes
				TV/CABLE	Yes
				Add/Delete	Yes
				Auto CH Memory	Yes
			V-Chip		Yes
			Language		Yes
			Clock Set		No
			Pin Code Registration		No
			Sound System		No
			AV2 Output Source		No
		Control Level			Yes
				Volume	Yes
				Brightness	Yes
				Contrast	Yes
				Color	Yes
				Tint	Yes
				Sharpness	Yes
				Bass	Yes
				Treble	Yes
				Balance	Yes
		Stereo			Yes
		Pin Code			No
		CH/AV/DVD			Yes
		Component			Yes
		Hotel Lock			No
		CH Label			No
		Sleep Timer			Yes
		Caption / Text			Yes
		Volume			Yes
		Sound Mute			Yes
		V-chip Rating			Yes
G-10	**On Screen Display**	Menu (DVD)			Yes
			Menu Type		Character
			Language		Yes
				Menu	Yes
				Subtitle	Yes
				Audio	Yes
			Picture		Yes
				TV Screen Size(4:3)	Yes
				OSD Display On/Off	Yes
				JPEG Interval	No
				Select Files	No
			Sound		Yes
				DRC (Dynamic Range Control)	Yes
				dts Decode	No
				Output(5.1ch/ 2ch)	No
				Surround On/Off	No
				Center On/Off	No
				Sub Woofer On/Off	No
			Parental		Yes
				Password Lock/ Un Lock	Yes

GENERAL SPECIFICATIONS

			Rating Level	Yes
		Other		Yes
			OSD Language(Set up Language)	Yes
			Output(RGB/Composite)	No
		Eject		Yes
		No disc		Yes
		Reading		Yes
		Play		Yes
		Still/Pause		Yes
		Stop		Yes
		Prohibit Mark		Yes
		Step		Yes
		Skip(>>|)		Yes
		Skip(|<<)		Yes
		Random		Yes (CD,MP3)
		Repeat		Yes
		Slow+		Yes
		Slow-		Yes
		Search+		Yes
		Search-		Yes
		Jump		Yes
		Resume		Yes
		Title No.		Yes
		Chapter No.		Yes
		Track No.		Yes
		Time		Yes
		Subtitle No.		Yes
		Angle No.		Yes
		Vocal On/Off		Yes
		Audio No.		Yes
		Audio Stereo L/R		No
		Zoom		Yes
		Marker No.		Yes
		Program Play Back		Yes (CD,MP3)
		Surround On/Off		No
		Screen Saver		No
		MP3	Folder Name	Yes
			File Name	Yes
			File No	Yes
			Time	Yes
			Track No	Yes
G-11	**OSD Language**	(TV)		English, French, Spanish
		(DVD)		English, French, Spanish
G-12	**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
G-13	**Remote Control**	Unit		RC-HE
		Glow in Dark Remocon		No
		Format		NEC
		Custom Code		71-8E h
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-4 x 2 pcs
		Keys	Total Keys	47 Keys
			Power	Yes
			1	Yes
			2	Yes
			3	Yes
			4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			Eject	Yes

			Play	Yes
			Stop	Yes
			Search+	Yes
			Search-	Yes
			Skip+	Yes
			Skip-	Yes
			Slow+	Yes
			Slow-	Yes
			Still/Pause/Step	Yes
			Display/Call	Yes
			TV/DVD	Yes
			Cancel	Yes
			Audio Select	Yes
			Angle	Yes
			Subtitle	Yes
			Top Menu	Yes
			Setup/TV Menu	Yes
			Return	Yes
			DVD Menu	Yes
			Up/ Set+/ CH Up	Yes
			Down/ Set-/ CH Down	Yes
			Left/Select-	Yes
			Right/Select+	Yes
			Select/Enter	Yes
			Play Mode	Yes
			Marker	Yes
			Input Select	Yes
			Volume +	Yes
			Volume -	Yes
			Repeat A-B	Yes
			Zoom/ Quick View	Yes
			Mute	Yes
			Sleep	Yes
			Jump/Closed Caption	Yes
			Freeze frame	Yes
G-14	**Features**	CATV		Yes
		Auto Shut Off		Yes
		Auto CH Memory		Yes
		V-Chip		Yes
			Type	USA Type
		Auto Search		No
		SAP		Yes
		PC Monitor Input		No
		S-Video Input		Yes
		Game Position		No
		FM Transmitter		No
		Surround		Yes
		Stable Sound		No
		Energy Star		No
		Closed Caption		Yes
		Comb Filter		Yes 3D
		Power On Memory		No
		Freeze frame		Yes
		Parental Lock (DVD Only)		Yes
		WMA		No
		JPEG		No
		Video CD Playback		No
		SVCD Playback		No
			Overlay Graphics And Text	No
			Command List	No
			Entry Point Jump	No
		MP3 Playback		Yes
		Digital Out	(Dolby Digital)	Yes
			(MPEG)	Yes
			(PCM)	Yes
			(DTS)	Yes

GENERAL SPECIFICATIONS

		Down Mix Out		(Dolby Digital)	Yes
				(DTS)	No
		Surround (Tru Surround)			No
		Screen Saver			No
		Available Scan Rates		(Component)	480i/480p
		Audio DAC			192kHz / 24bit
G-15	**Accessories**	Owner's Manual		Language	English / Spanish
				w/Guarantee Card	No
		Remote Control Unit			Yes
		Rod Antenna			No
				Poles	--
				Terminal	--
		Loop Antenna			No
				Terminal	--
		U/V Mixer			No
		DC Car Cord (Center+)			No
		Guarantee Card			Yes
		Warning Sheet			No
		Circuit Diagram			No
		Antenna Change Plug			No
		Service Facility List			No
		Important Safeguard			No
		Dew/AHC Caution Sheet			No
		Quick Set-up Sheet			No
		Battery			Yes
				UM size x pcs	UM-4 x 2 pcs
				OEM Brand	No
		AC Adapter			No
		AC Cord (for AC Adapter)			No
		AV Cord (2Pin-1Pin)			No
		Registration Card			No
		Information Sheet			Yes
		75 ohm Coaxial Cable/w Core			Yes
		300 ohm to 75 ohm Antenna Adapter			No
G-16	**Interface**	Switch	Front	Power (Tact)	Yes
				Channel Up	Yes
				Channel Down	Yes
				Volume Up	Yes
				Volume Down	Yes
				Play	Yes
				Eject	Yes
				Skip+, Search+	Yes
				Skip-, Search-	Yes
				Still/Pause	No
				Stop	Yes
				Main Power SW	No
			Rear	Main Power SW	No
		Indicator		Power	Yes (Red)
				Stand-by	No
				On Timer	No
		Terminals	Rear	Video Input 1	RCA x 1
				Audio Input 1	RCA x 2(Stereo)
				S- Input 1	Yes
				Video Output	No
				Audio Output	No
				Component	Yes
				Euro Scart(21Pin)	No
				PC Monitor Input	No
				Digital Audio Output	Coaxial (DVD Only)
				DC Jack (Center +)	No
				VHF/UHF Antenna Input	F Type
				AC Outlet	No
			Side	Video Input 2	RCA x 1
				Audio Input 2	RCA x 2(Stereo)
				Other Terminal	Headphone
G-17	**Set Size**			Approx. W x D x H (mm)	594 x 215 x 436
				w/o Handle, Stand Approx. W x D x H (mm)	594 x 99 x 393

GENERAL SPECIFICATIONS

G-18	**Weight**		Net (Approx.)	9.0kg (19.8 lbs)
			Net w/o Handle, Stand (Approx.)	8.0kg (17.6 lbs)
			Gross (Approx.)	11.0kg (24.3 lbs)
G-19	**Carton**	Master Carton		No
			Content	--- Sets
			Material	--- / ---
			Dimensions W x D x H(mm)	---
			Description of Origin	---
		Gift Box		Yes
			Material	Double/White
			W/Color Photo Label	No
			W/Handle	No
			Dimensions W x D x H(mm)	694x535x295
			Design	As Per Buyer 's
			Description of Origin	Yes
		Drop Test		1 Corner / 3 Edges / 6 Surfaces
			Height (cm)	62
		Container Stuffing (40' container)		582 Sets
G-20	**Material**	Cabinet	Front	PS 94V0 DECABROM
			Rear	PS 94V0 DECABROM
			Jack Panel	--
		PCB	Non-Halogen Demand	No
			Eyelet Demand	No
G-21	**Environment**	Pb Free	Lead-free Solder	No
			Other	No
		Cd Free		No

DISASSEMBLY INSTRUCTIONS

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

1-1: HANDLE (Refer to Fig. 1-1)

1. Remove the 4 screws (1).
2. Remove the Handle in the direction of arrow.

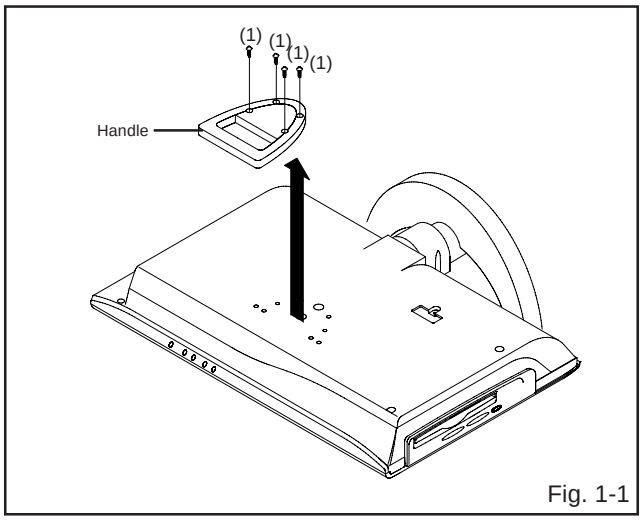


Fig. 1-1

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

1. Remove the 2 screws (1).
2. Remove the Hinge Cover in the direction of arrow (A).
3. Remove the 4 screws (2).
4. Remove the Stand Block in the direction of arrow (B).
5. Remove the 4 screws (3).
6. Remove the Hinge Ass'y in the direction of arrow (C).
7. Remove the 4 screws (4).
8. Remove the Stand in the direction of arrow (C).

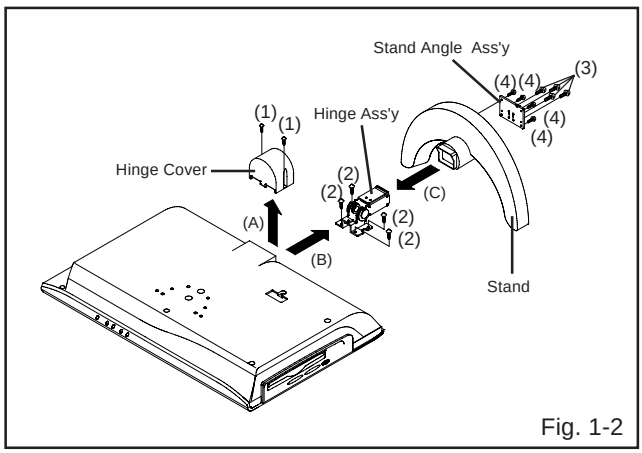


Fig. 1-2

1-3: BACK CABINET (Refer to Fig. 1-3)

1. Remove the 8 screws (1).
2. Remove the screw (2).
3. Remove the screw (3).
4. Remove the Back Cabinet in the direction of arrow.

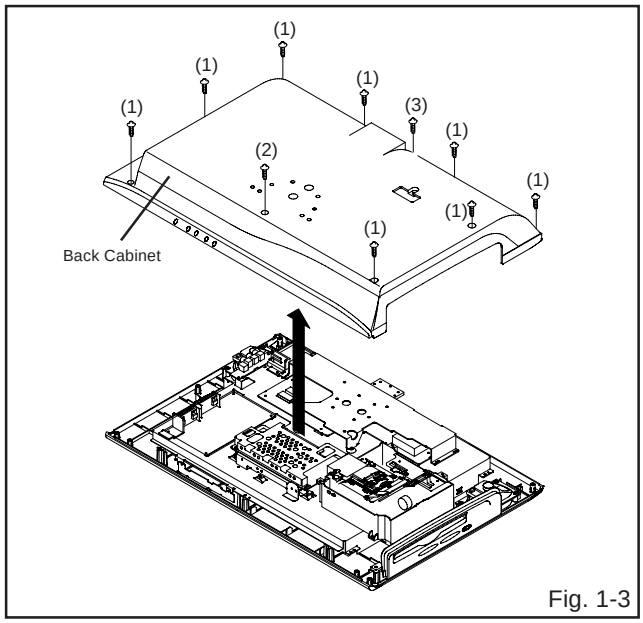


Fig. 1-3

1-4: BACK ANGLE (Refer to Fig. 1-4)

1. Remove the screw (1).
2. Remove the AC-Cord Holder in the direction of arrow (A).
3. Remove the screw (2).
4. Remove the 4 screws (3).
5. Remove the 2 screws (4).
6. Remove the Jack Plate and Jack Shield in the direction of arrow (B).
7. Remove the 3 screws (5).
8. Remove the Back Angle in the direction of arrow (C).

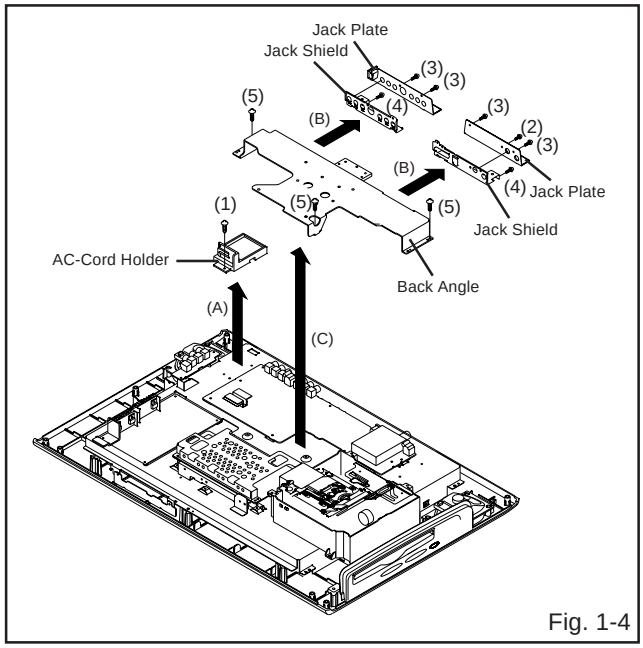


Fig. 1-4

DISASSEMBLY INSTRUCTIONS

1-5: DVD DECK (Refer to Fig. 1-5)

1. Short circuit the position shown in **Fig. 1-5** using a soldering. If you remove the DVD Deck with no soldering iron, the Laser may be damaged.
2. Disconnect the following connectors: **(CP2301, CP2302 and CP2601)**.
3. Remove the 4 screws (1).
4. Remove the DVD Deck in the direction of arrow.

NOTE

1. Use the Lead Free solder and the exclusive soldering iron.
2 Manual soldering conditions
   - Soldering temperature: 320 ± 20°C
   - Soldering time: Within 3 seconds
   - Soldering combination: Sn-3.0Ag-0.5Cu
3. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Fluk smoke away from it.
4. When installing of the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD PCB connector.

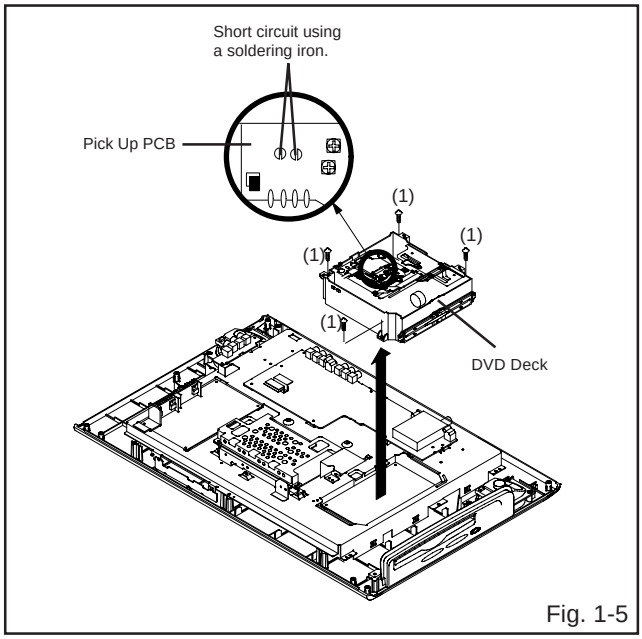


Fig. 1-5

1-6: SIDE PANEL/OPERATION 2 PCB (Refer to Fig. 1-6)

1. Disconnect the following connector: **(CP2251)**.
2. Remove the 2 screws (1).
3. Remove the Side Panel in the direction of arrow (A).
4. Remove the 3 screws (2).
5. Remove the Operation 2 PCB in the direction of arrow (B).

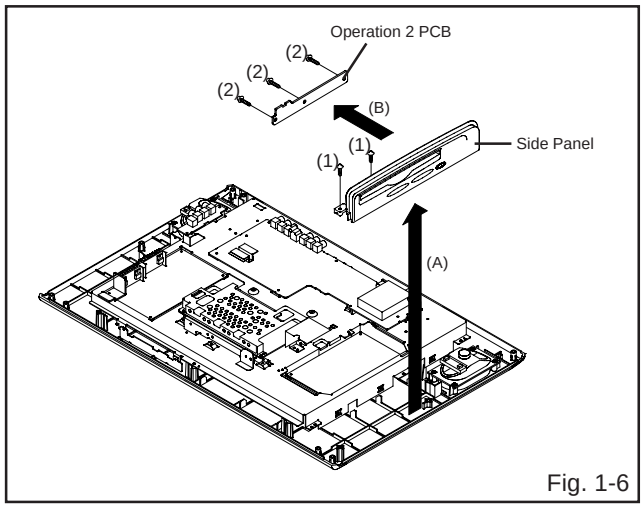


Fig. 1-6

1-7: DVD PCB (Refer to Fig. 1-7)

1. Disconnect the following connectors: **(CP701 and CP3804)**.
2. Remove the 4 screws (1).
3. Remove the DVD Shield Ass'y, FFC Shield and DVD PCB in the direction of arrow.

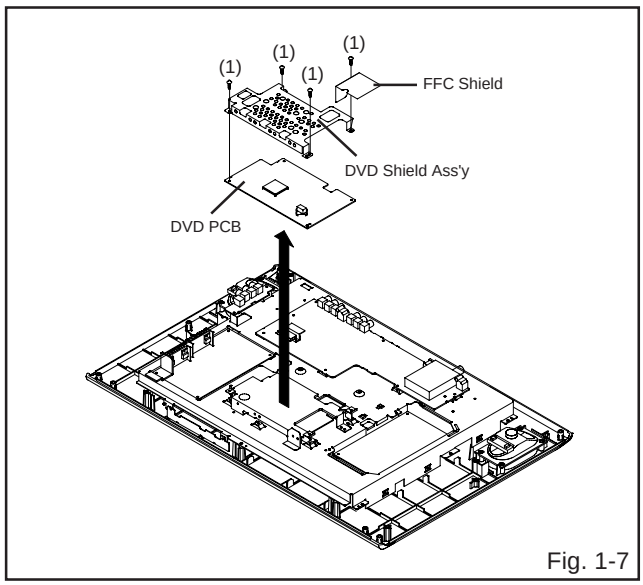


Fig. 1-7

DISASSEMBLY INSTRUCTIONS

1-8: LCD PCB (Refer to Fig. 1-8-B)

1. Disconnect the following connectors:
   (CP102, CP103, CP104, CP802 and CP3805).
   (Remove CP802 cable as shown Fig. 1-8-A.)
2. Remove the screw (1).
3. Remove the MPEG Shield.
4. Remove the 4 screws (2).
5. Remove the PCB Angle in the direction of arrow (A).
6. Remove the 4 screws (3).
7. Remove the LCD PCB in the direction of arrow (B).

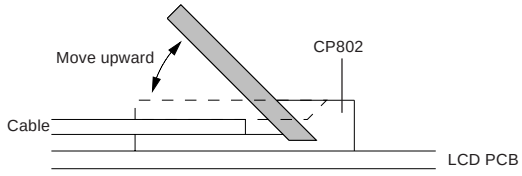


Fig. 1-8-A

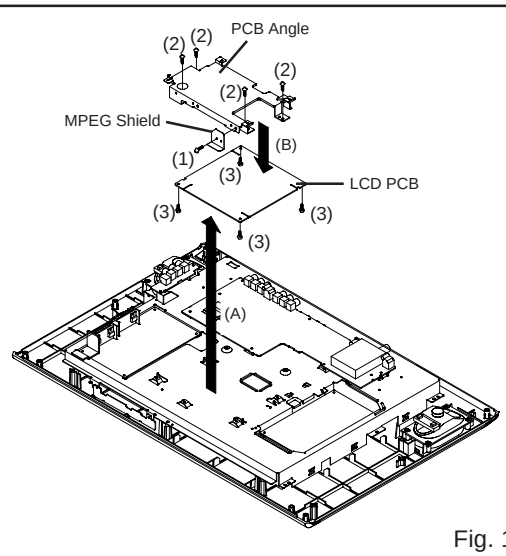


Fig. 1-8-B

1-9: BACK LIGHT PCB (Refer to Fig. 1-9)

1. Disconnect the following connectors:
   (CP3803, CP7001, CP7002, CP7003, CP7004, CP7005 and CP7006).
2. Remove the 4 screws (1).
3. Remove the Back Light PCB in the direction of arrow.

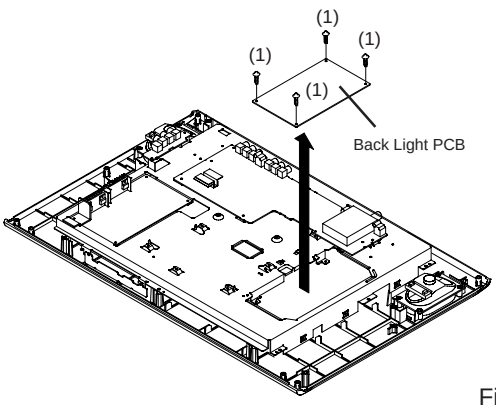


Fig. 1-9

1-10: POWER PCB (Refer to Fig. 1-10)

1. Disconnect the following connector:
   (CP3802).
2. Remove the 4 screws (1).
3. Remove the Power PCB in the direction of arrow.

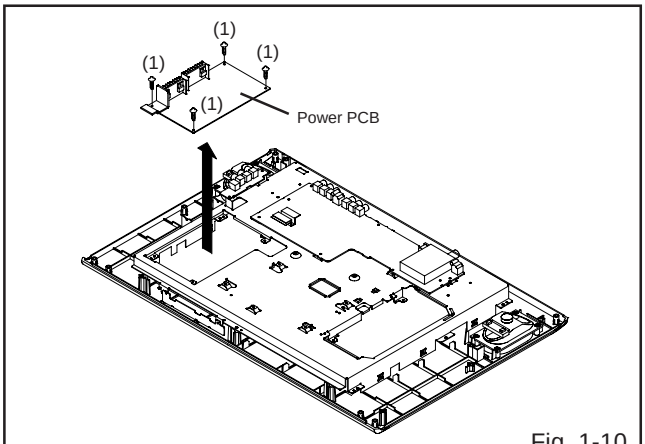


Fig. 1-10

1-11: SIDE JACK PCB (Refer to Fig. 1-11)

1. Disconnect the following connector:
   (CP705).
2. Remove the 3 screws (1).
3. Remove the Jack Plate, Jack Shield and Side Jack PCB in the direction of arrow.

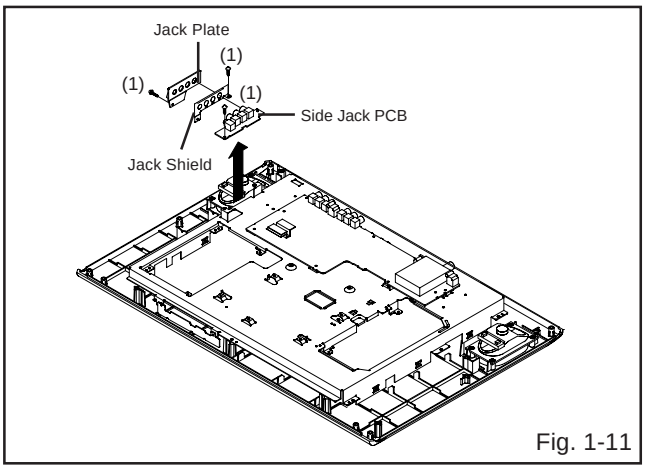


Fig. 1-11

DISASSEMBLY INSTRUCTIONS

1-12: AV PCB (Refer to Fig. 1-12)

1. Disconnect the following connectors:
   (CP101, CP1001 and CP2201).
2. Remove the 6 screws (1).
3. Remove the AV PCB in the direction of arrow.

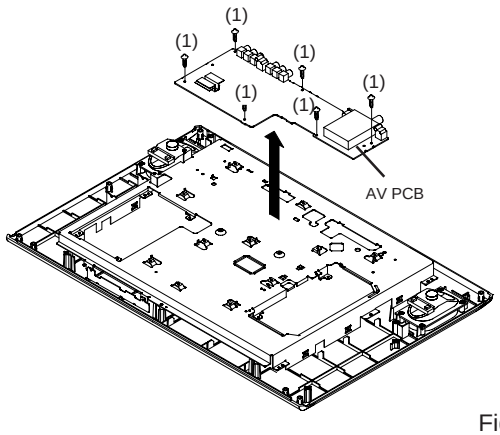


Fig. 1-12

1-13: OPERATION 1 PCB/REMOCON PCB (Refer to Fig. 1-13)

1. Remove the 2 screws (1).
2. Remove the Operation 1 PCB in the direction of arrow (A).
3. Remove the 2 screws (2).
4. Remove the Remocon PCB in the direction of arrow (B).

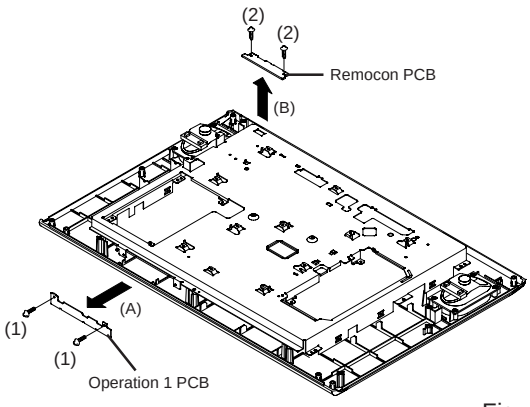


Fig. 1-13

1-14: LCD COVER/LCD PANEL (Refer to Fig. 1-14)

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

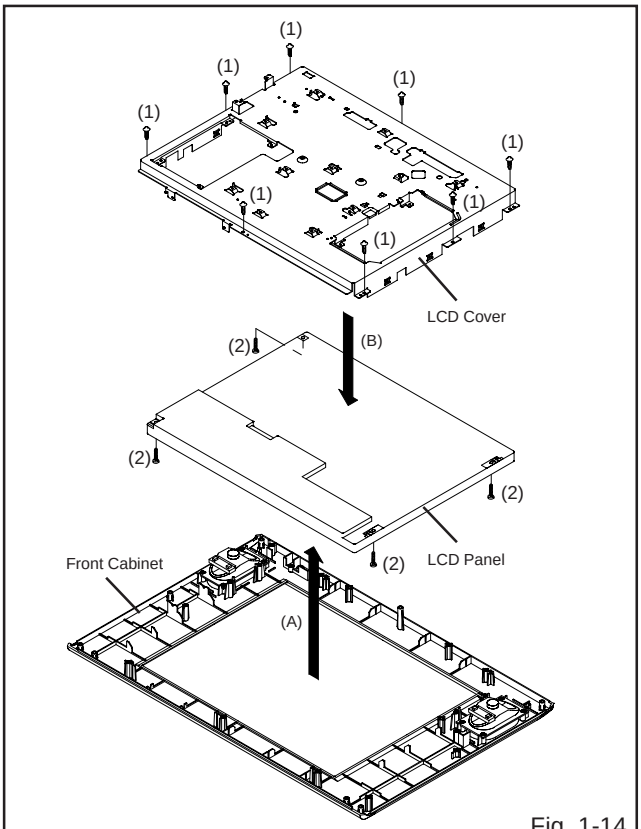


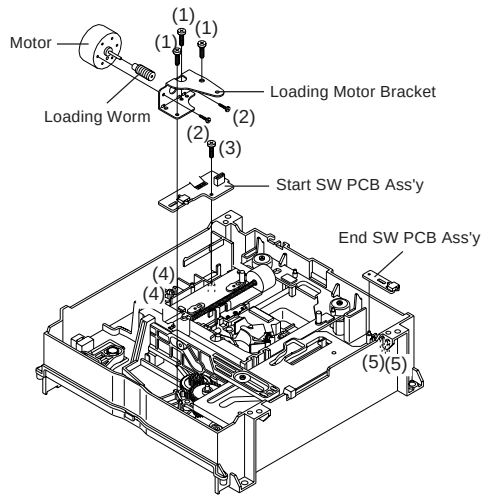
Fig. 1-14

DISASSEMBLY INSTRUCTIONS

2. REMOVAL OF DVD DECK PARTS

2-1: LOADING MOTOR ASS'Y/START SW PCB ASS'Y/ END SW PCB ASS'Y (Refer to Fig. 2-1-A)

1. Remove the 3 screws (1).
2. Remove the Loading Motor Ass'y.
3. Remove the 2 screws (2).
4. Remove the Motor and Loading Worm.
5. Disconnect the following connector: (CP2).
6. Remove the screw (3).
7. Unlock the 2 supports (4) and remove the Start SW PCB Ass'y.
8. Unlock the 2 supports (5) and remove the End SW PCB Ass'y.



• Screw Torque: 1 ± 0.2kgf•cm

Fig. 2-1-A

NOTE

1. In case of the Loading Worm installation, check if the value of the Fig. 2-1-B is correct.
2. When installing the wire, install it correctly as Fig. 2-1-B.

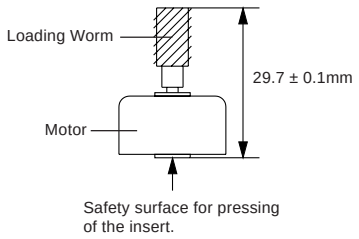


Fig. 2-1-B

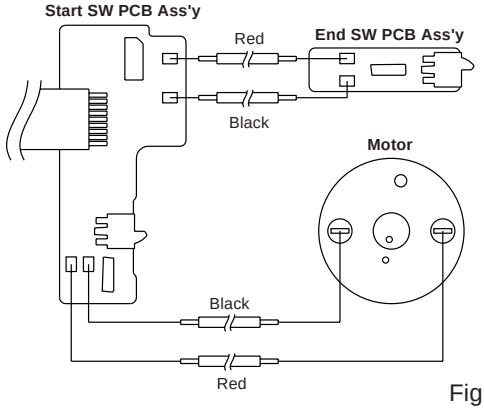
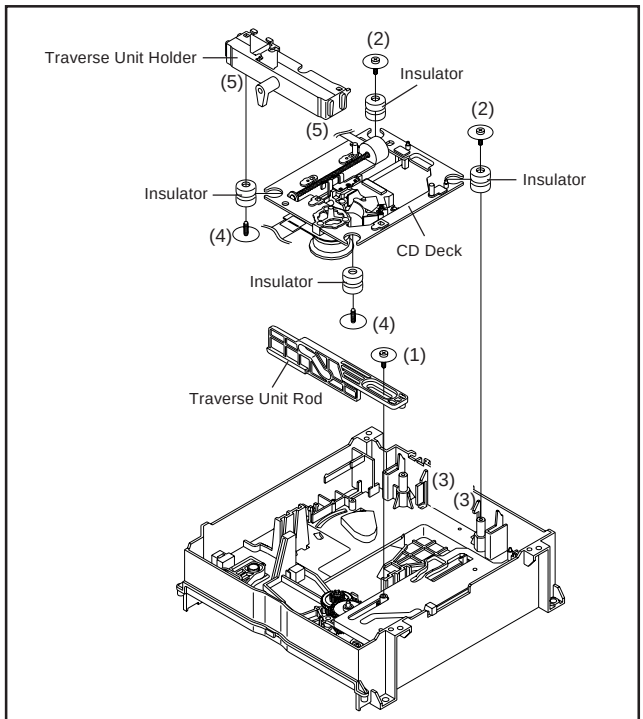


Fig. 2-1-C

2-2: TRAVERSE UNIT ROD/TRAVERSE UNIT HOLDER/ CD DECK/INSULATOR (Refer to Fig. 2-2)

1. Remove the screw (1).
2. Remove the Traverse Unit Rod.
3. Remove the 2 screws (2).
4. Unlock the 2 supports (3) and remove the CD Deck Block.
5. Remove the 2 screws (4).
6. Unlock the 2 supports (5) and remove the Traverse Unit Holder.
7. Remove the 4 Insulators.

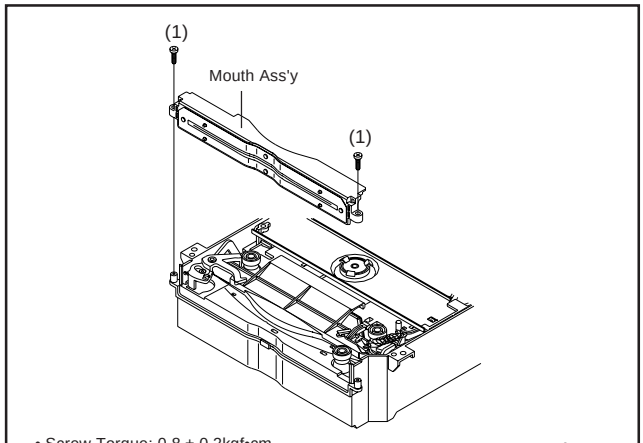


• Screw Torque: 3 ± 0.5kgf•cm

Fig. 2-2

2-3: MOUTH ASS'Y (Refer to Fig. 2-3)

1. Remove the 2 screws (1).
2. Remove the Mouth Ass'y.



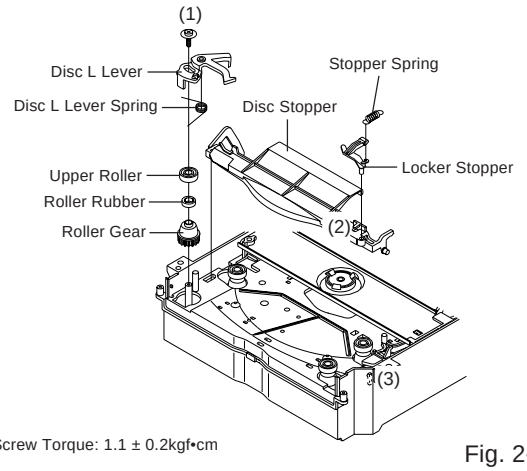
• Screw Torque: 0.8 ± 0.2kgf•cm

Fig. 2-3

DISASSEMBLY INSTRUCTIONS

2-4: DISC L LEVER/DISC STOPPER/LOCKER STOPPER/ ROLLER GEAR (Refer to Fig. 2-4-A)

1. Remove the screw (1).
2. Remove the Disc L Lever and Disc L Lever Spring.
3. Remove the Stopper Spring.
4. Unlock the support (2) and remove the Locker Stopper.
5. Unlock the support (3) and remove the Disc Stopper.
6. Remove the Upper Roller, Roller Rubber and Roller Gear.



• Screw Torque: 1.1 ± 0.2kgf•cm

Fig. 2-4-A

NOTE

1. In case of the Upper Roller installation, install correctly as Fig. 2-4-B.

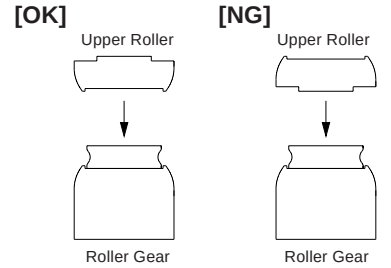


Fig. 2-4-B

2-5: RACK LOADING/RACK GEAR/GUIDE ARM SPRING/MID RACK GEAR (Refer to Fig. 2-5)

1. Remove the Guide Arm Spring.
2. Unlock the 3 supports (1) and remove the Rack Loading.
3. Remove the Rack Gear and Mid Rack Gear.

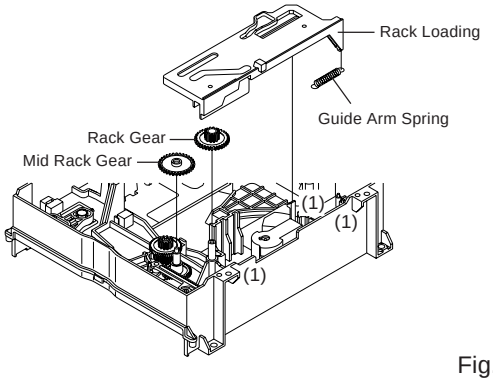
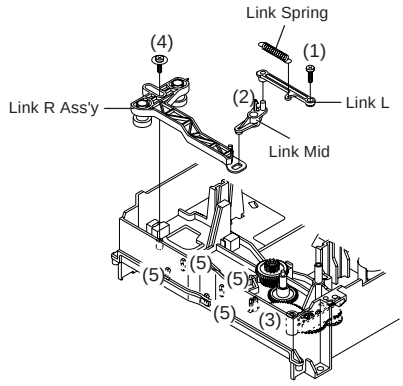


Fig. 2-5

2-6: LINK R ASS'Y/LINK L/LINK MID/LINK SPRING (Refer to Fig. 2-6)

1. Remove the screw (1).
2. Remove the Link Spring.
3. Unlock the support (2) and remove the Link L.
4. Unlock the support (3) and remove the Link Mid.
5. Remove the screw (4).
6. Unlock the 4 supports (5) and remove the Link R Ass'y.

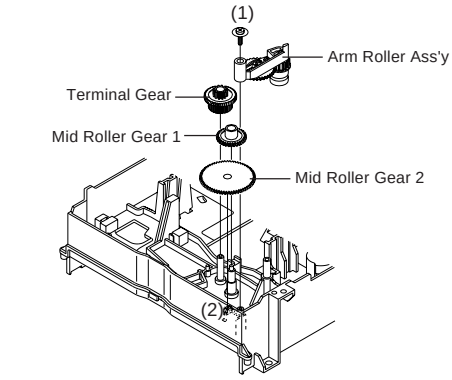


• Screw Torque: 0.7 ± 0.1kgf•cm (Screw (1))
• Screw Torque: 1.5 ± 0.2kgf•cm (Screw (4))

Fig. 2-6

2-7: ARM ROLLER ASS'Y/MID ROLLER 1/2 GEAR/ TERMINAL GEAR (Refer to Fig. 2-7)

1. Remove the screw (1).
2. Remove the Arm Roller Ass'y.
3. Remove the Terminal Gear and Mid Roller Gear 1.
4. Unlock the support (2) and remove the Mid Roller Gear 2.



• Screw Torque: 1.5 ± 0.2kgf•cm

Fig. 2-7

DISASSEMBLY INSTRUCTIONS

2-8: CLAMPER ASS'Y/DISC GUIDE ARM/DISC R LEVER (Refer to Fig. 2-8-A)

1. Unlock the support (1) and remove the Clamper Ass'y.
2. Unlock the support (2) and remove the Disc Guide Arm.
3. Unlock the support (3) and remove the Disc R Lever.

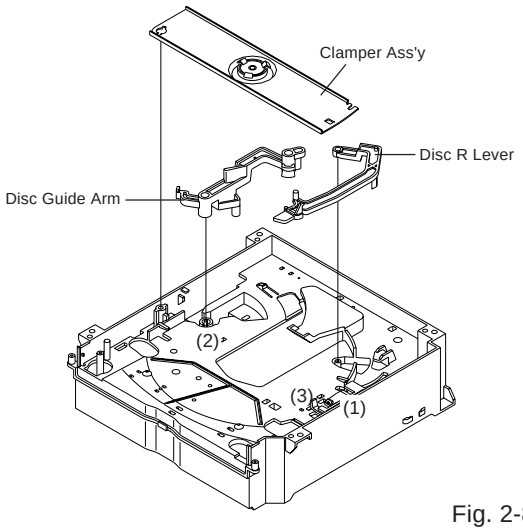


Fig. 2-8-A

NOTE

1. When installing the Clamper Ass'y, check if the Clamper Ass'y is locked correctly as Fig. 2-8-B.

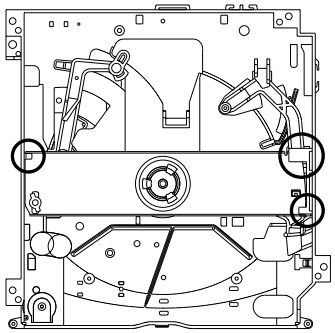


Fig. 2-8-B

DISASSEMBLY INSTRUCTIONS

3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

REMOVAL

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

   NOTE

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

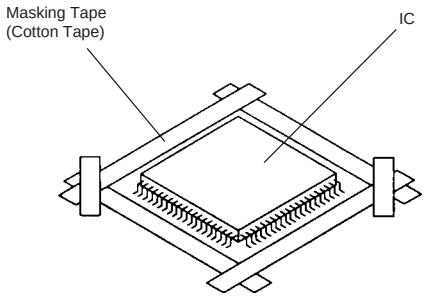


Fig. 3-1

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

   NOTE

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

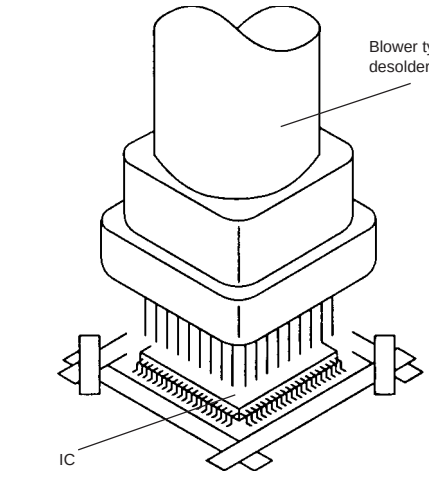


Fig. 3-2

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

   NOTE

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

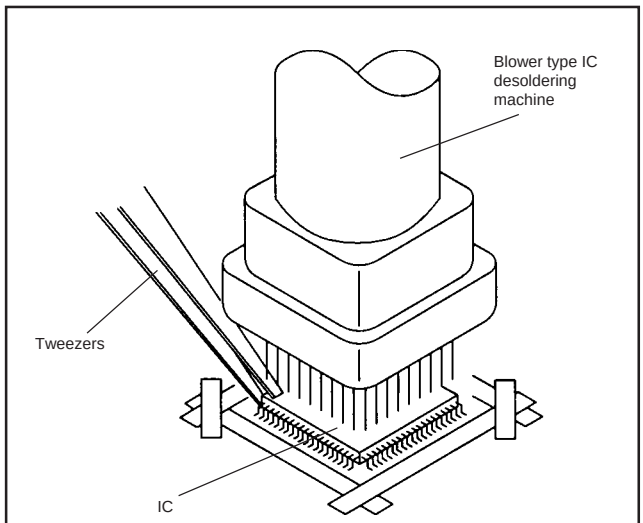


Fig. 3-3

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

   NOTE

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

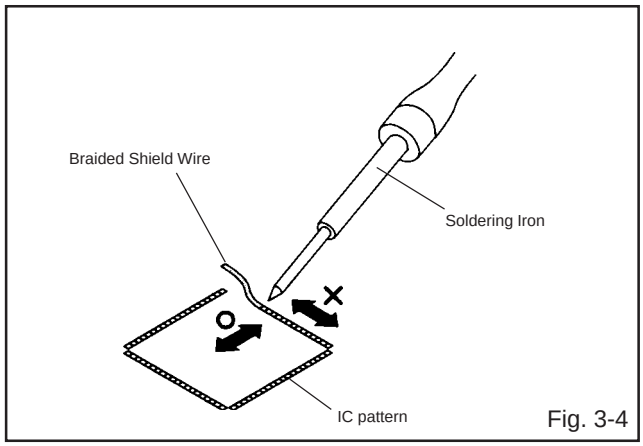


Fig. 3-4

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. 3-5.)**

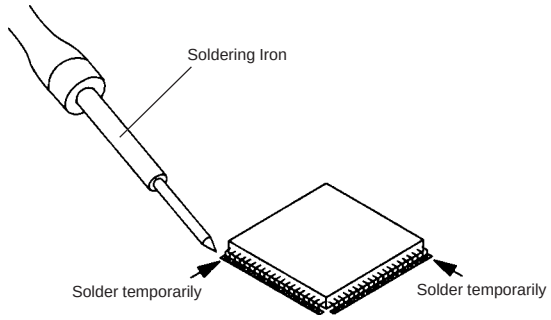


Fig. 3-5

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

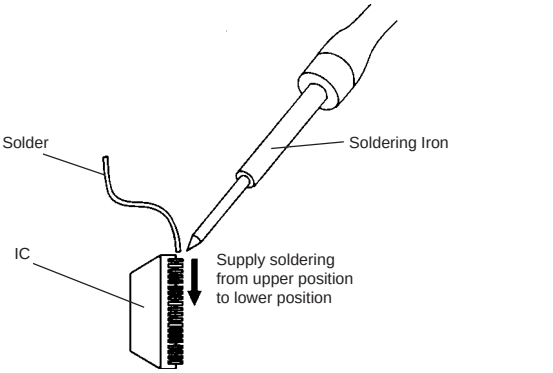


Fig. 3-6

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

   NOTE

   Do not absorb the solder to excess.

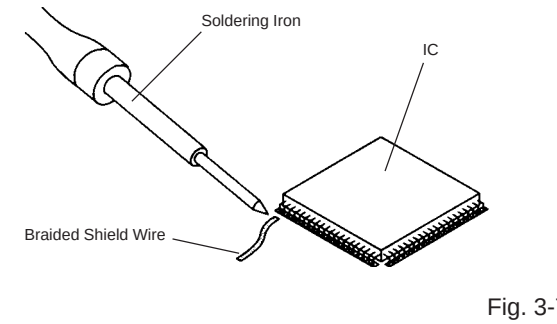


Fig. 3-7

4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thin-tip Soldering Iron. **(Refer to Fig. 3-8.)**

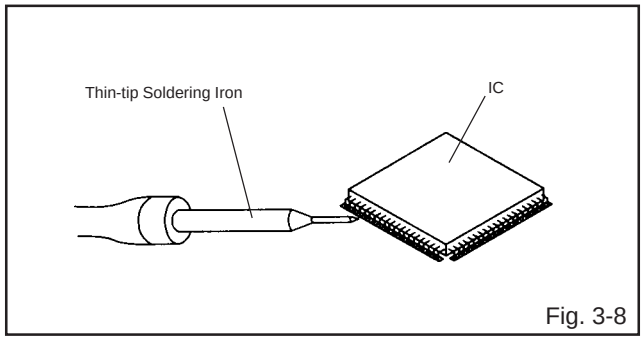


Fig. 3-8

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

   NOTE

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

SERVICE MODE LIST

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

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.)

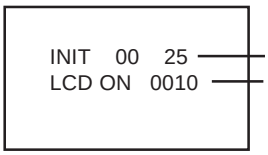
Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	1 sec.	Releasing of V-CHIP PASSWORD.
TV mode	VOL. DOWN (Minimum)	1	1 sec.	Initialization of factory data on TV. NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
DVD mode (No disc)	VOL. DOWN (Minimum)	4	1 sec.	Initialization of factory on DVD data. NOTE: The function will only work without the setting of DVD disc at DVD mode.
TV mode	VOL. DOWN (Minimum)	6	1 sec.	POWER ON total hours are displayed on the screen. Refer to the "CONFIRMATION OF HOURS USED" Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	1 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).
DVD mode (No disc)	STOP	7	3 sec.	Releasing of PARENTAL LOCK. Refer to the ÒPARENTAL CONTROL - RATING LEVELÓ. NOTE: The function will only work without the setting of DVD disc at DVD mode.

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 1 second.
4. After the confirmation of using hours, turn off the power.



Initial setting content of MEMORY IC.
POWER ON total hours.
= (16 x 16 x 16 x thousands digit value)
+ (16 x 16 x hundreds digit value)
+ (16 x tens digit value)
+ (ones digit value)

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.

NOTE: No need to set data for between position INI 10 and INI 4F due to the adjustment value.

INI	+0	+1	+2	+3	+4	+5	+6	+7	+8	+9	+A	+B	+C	+D	+E	+F
00	25	15	73	61	00	10	02	69	80	40	45	F3	01	00	19	1B
50	00	01	20	00	00	00	17	00	00	00	05	00	00	00	---	---

Table 1

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

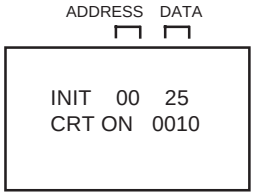


FIG. 1

4. ADDRESS is now selected and should "blink". Using the VOL. UP/DOWN 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 VOL. UP/DOWN 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 POWER on.
11. Press both VOL. DOWN button on the set and Channel button **(1)** on the remote control for more than 1 second.
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.

ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENTS

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

CAUTION

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

Prepare the following measurement tools for electrical adjustments.

1. Oscilloscope
2. AC Voltmeter
3. Pattern Generator
4. Multi-Sound Signal Generator

On-Screen Display Adjustment

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

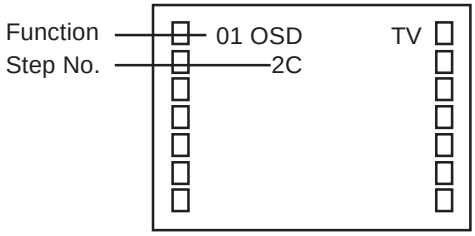


Fig. 1-1

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

NO.	FUNCTION	NO.	FUNCTION
01	OSD	38	DRI1 W
07	RCUT M	39	DRI2 W
08	GCUT M	40	MD6 W
09	BCUT M	41	DTHON W
10	DRI1 M	42	DRREF W
11	DRI2 M	43	RCUT2 W
12	MD6 M	44	GCUT2 W
13	DTHON M	45	BCUT2 W
14	DRREF M	46	GAINR W
15	RCUT2 M	47	GAING W
16	GCUT2 M	48	GAINB W
17	BCUT2 M	49	BRI CEN
18	GAINR M	50	BRI MAX
19	GAING M	51	BRI MIN
20	GAINB M	52	CON CEN
21	RCUT C	53	CON MAX
22	GCUT C	54	CON MIN
23	BCUT C	55	COL CEN
24	DRI1 C	56	COL MAX
25	DRI2 C	57	COL MIN
26	MD6 C	58	TIN CEN
27	DTHON C	59	TIN MAX
28	DRREF C	60	TIN MIN
29	RCUT2 C	61	SHA CEN
30	GCUT2 C	62	SHA MAX
31	BCUT2 C	63	SHA MIN
32	GAINR C	64	DIM
33	GAING C	65	CR GAIN
34	GAINB C	66	CB GAIN
35	RCUT W	67	CR OFFS
36	GCUT W	68	CB OFFS
37	BCUT W		

Fig. 1-2

ELECTRICAL ADJUSTMENTS

2. BASIC ADJUSTMENTS

2-1: Confirmation of Fixed Value (Step No.)

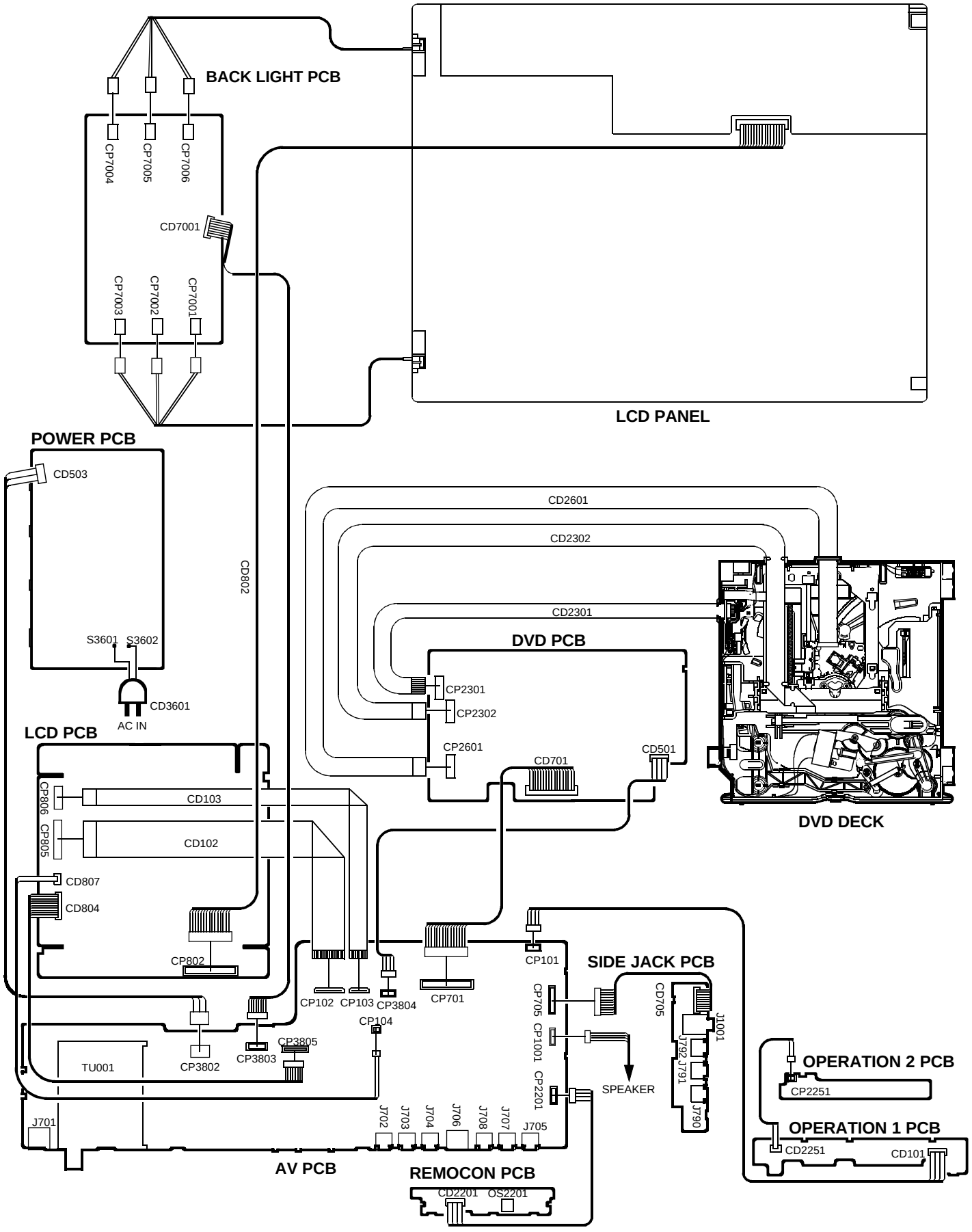
Please check if the fixed values of each the adjustment items are set correctly referring below.

(RF/AV/DVD/COMPONENT MODE)

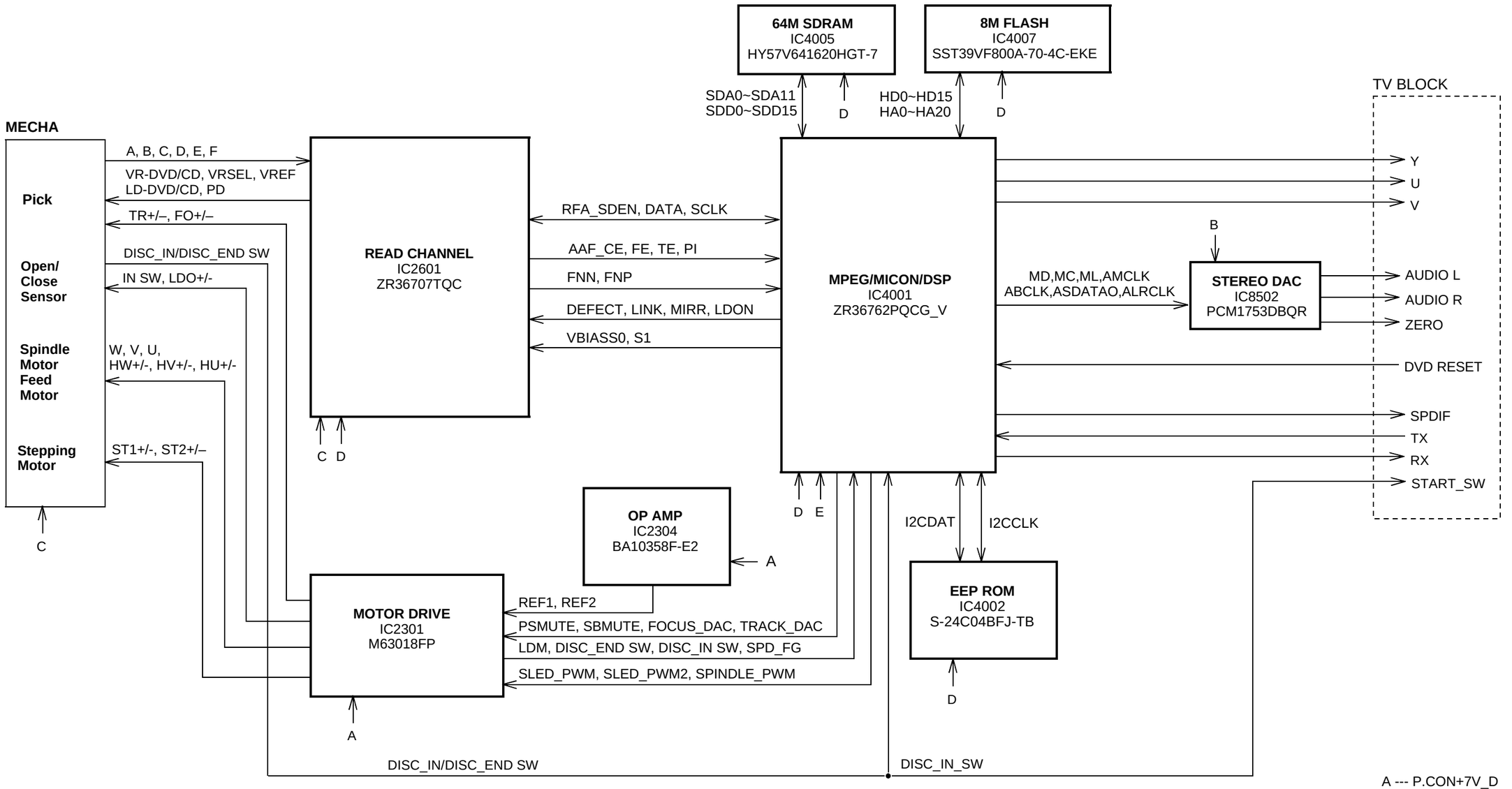
NO.	FUNCTION	STEP NO.			
		RF	AV	DVD	COMPONENT
01	OSD	2C			
07	RCUT M	86			
08	GCUT M	87			
09	BCUT M	7F			
10	DRI1 M	42			
11	DRI2 M	35			
12	MD6 M	00			
13	DTHON M	00			
14	DRREF M	00			
15	RCUT2 M	40			
16	GCUT2 M	38			
17	BCUT2 M	3F			
18	GAINR M	63			
19	GAING M	55			
20	GAINB M	63			
21	RCUT C	89			
22	GCUT C	89			
23	BCUT C	7F			
24	DRI1 C	42			
25	DRI2 C	35			
26	MD6 C	00			
27	DTHON C	00			
28	DRREF C	00			
29	RCUT2 C	38			
30	GCUT2 C	33			
31	BCUT2 C	44			
32	GAINR C	5E			
33	GAING C	5E			
34	GAINB C	6E			
35	RCUT W	8B			
36	GCUT W	85			
37	BCUT W	7F			
38	DRI1 W	42			
39	DRI2 W	35			
40	MD6 W	00			
41	DTHON W	00			
42	DRREF W	00			
43	RCUT2 W	41			
44	GCUT2 W	3F			
45	BCUT2 W	3C			
46	GAINR W	61			
47	GAING W	4F			
48	GAINB W	4F			
49	BRI CEN	68	68	61	68
50	BRI MAX	90	90	90	90
51	BRI MIN	40	40	40	40
52	CON CEN	30	30	30	30
53	CON MAX	69	69	69	69
54	CON MIN	20	20	10	10
55	COL CEN	70	70	60	60
56	COL MAX	F0	F0	A0	A0
57	COL MIN	00	00	00	00
58	TIN CEN	49	4A	46	49
59	TIN MAX	7F	7F	7F	7F
60	TIN MIN	00	00	00	00
61	SHA CEN	1A	1A	17	1A
62	SHA MAX	2B	2B	2B	2B
63	SHA MIN	00	00	00	00
64	DIM	00	00	00	00
65	CR GAIN	05	05	00	00
66	CB GAIN	05	05	00	00
67	CR OFFS	00	00	00	00
68	CB OFFS	00	00	00	00

ELECTRICAL ADJUSTMENTS

3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)

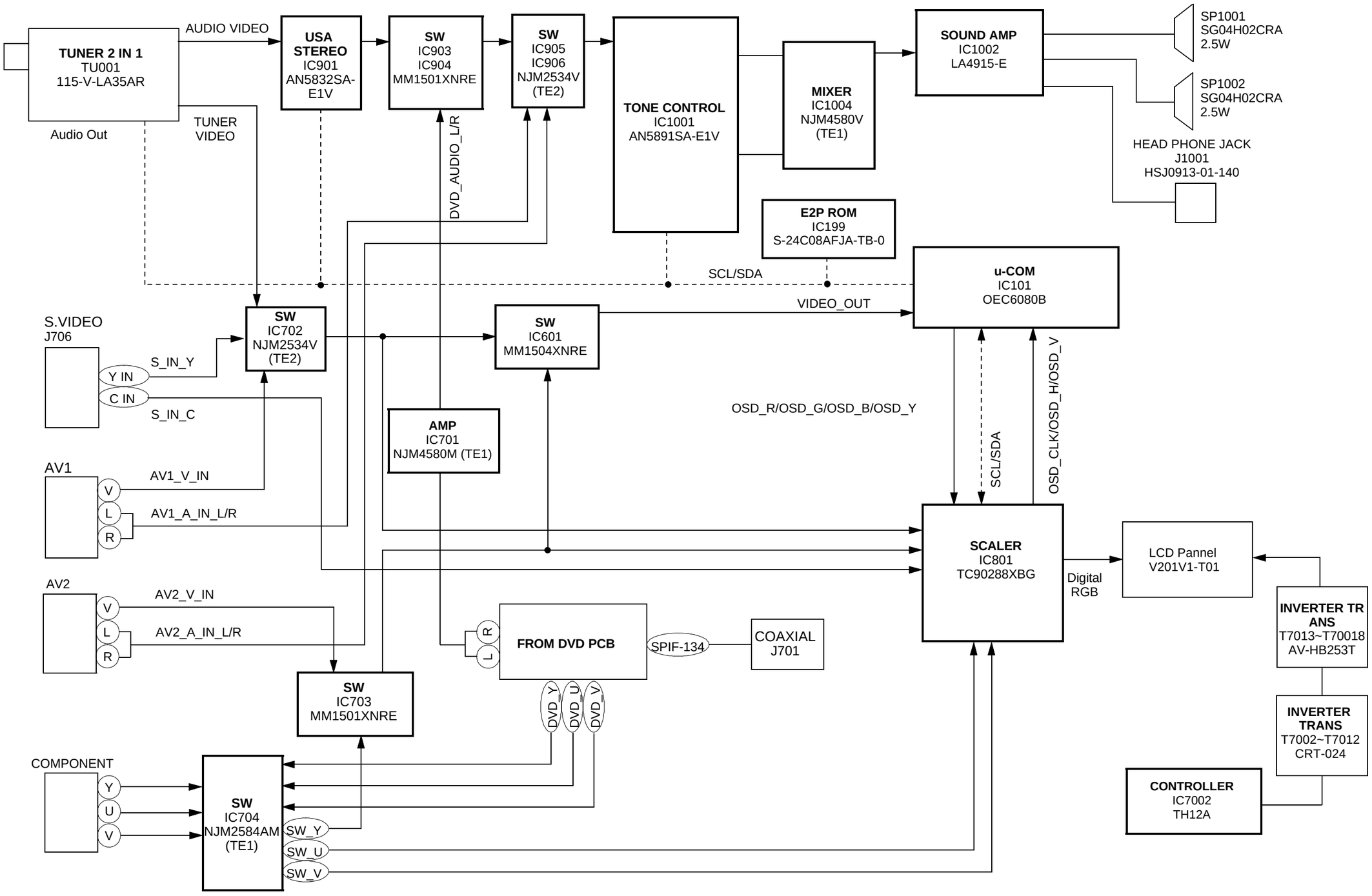


DVD BLOCK DIAGRAM

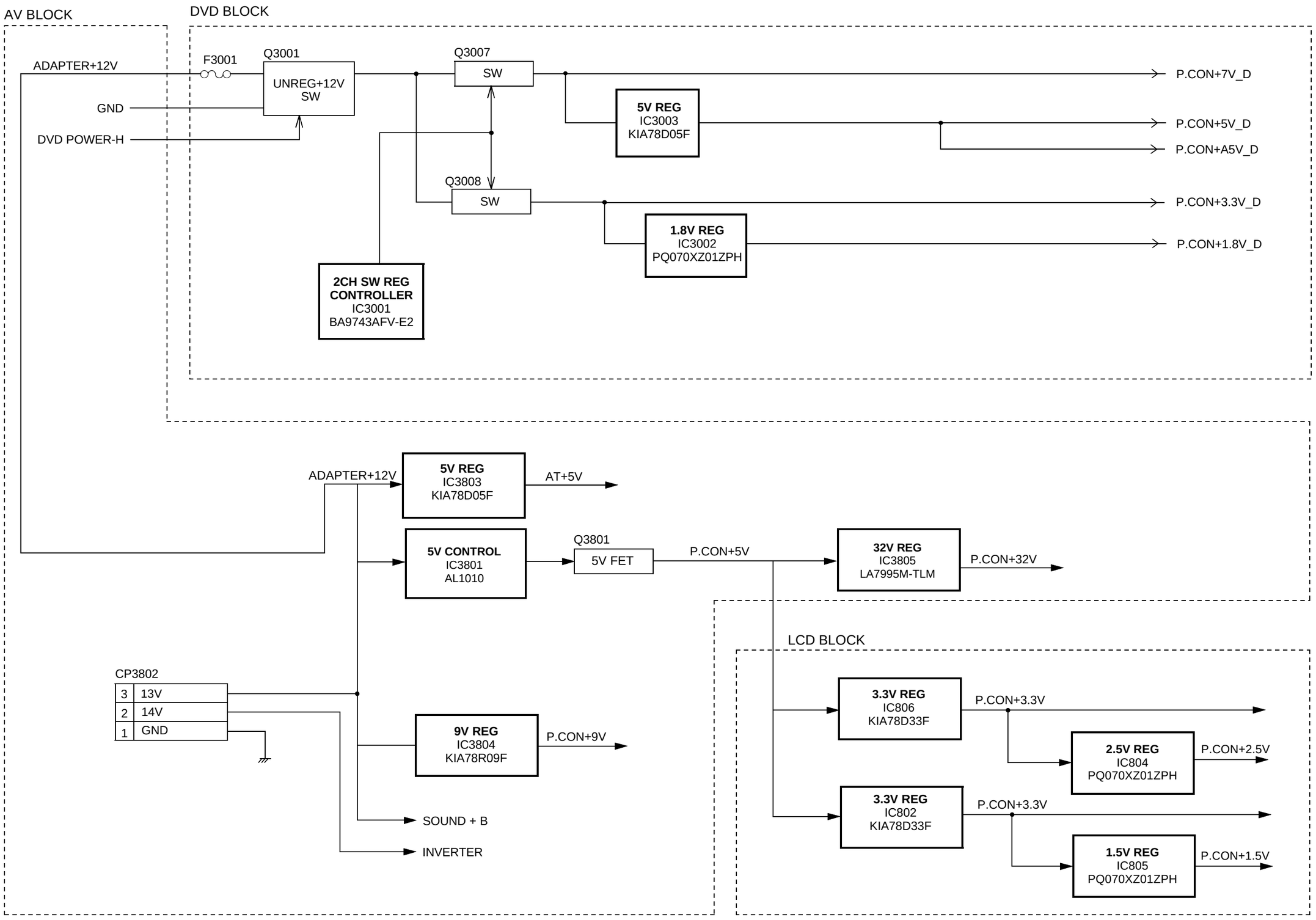


A --- P.CON+7V_D
B --- P.CON+5V_D
C --- P.CON+A5V_D
D --- P.CON+3.3V_D
E --- P.CON+1.8V_D

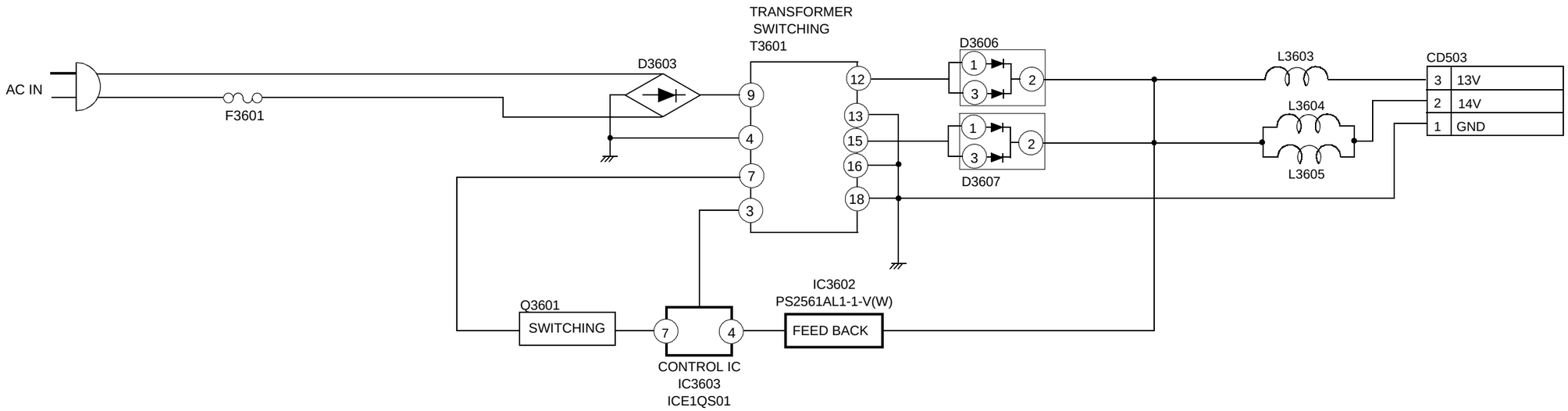
TV BLOCK DIAGRAM



POWER BLOCK DIAGRAM

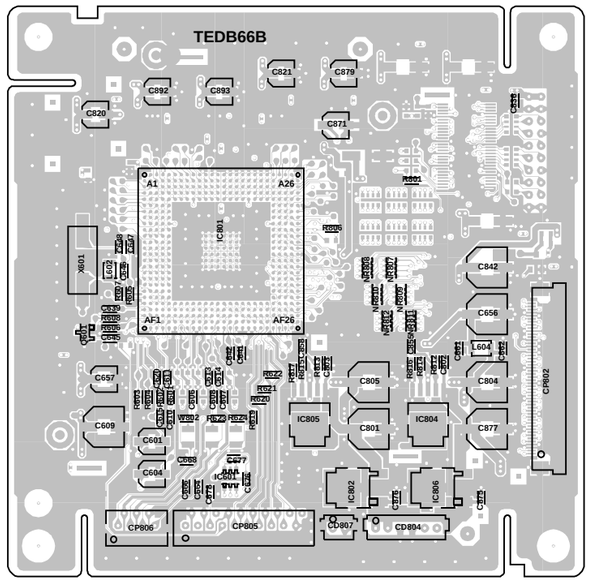


TV POWER BLOCK DIAGRAM

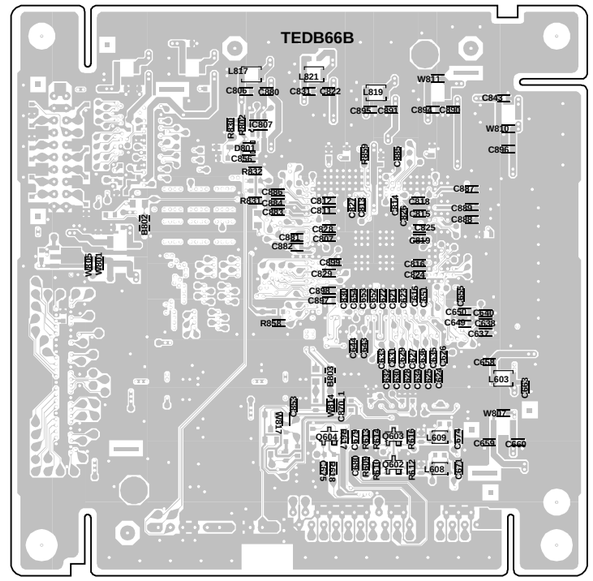


PRINTED CIRCUIT BOARDS

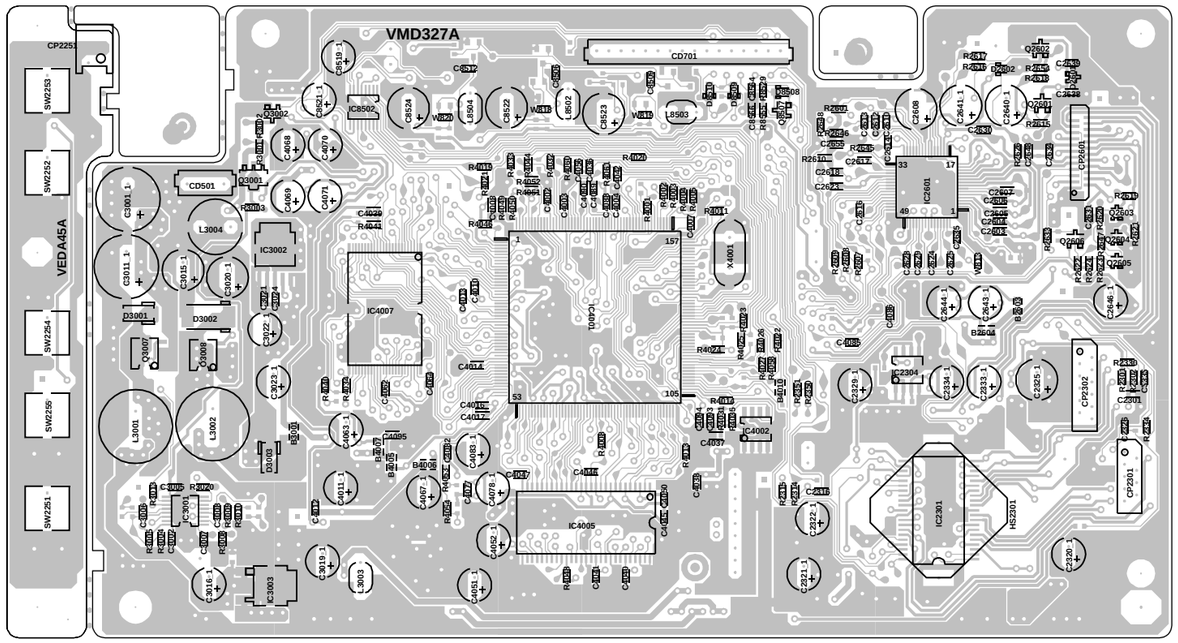
LCD (TOP SIDE)



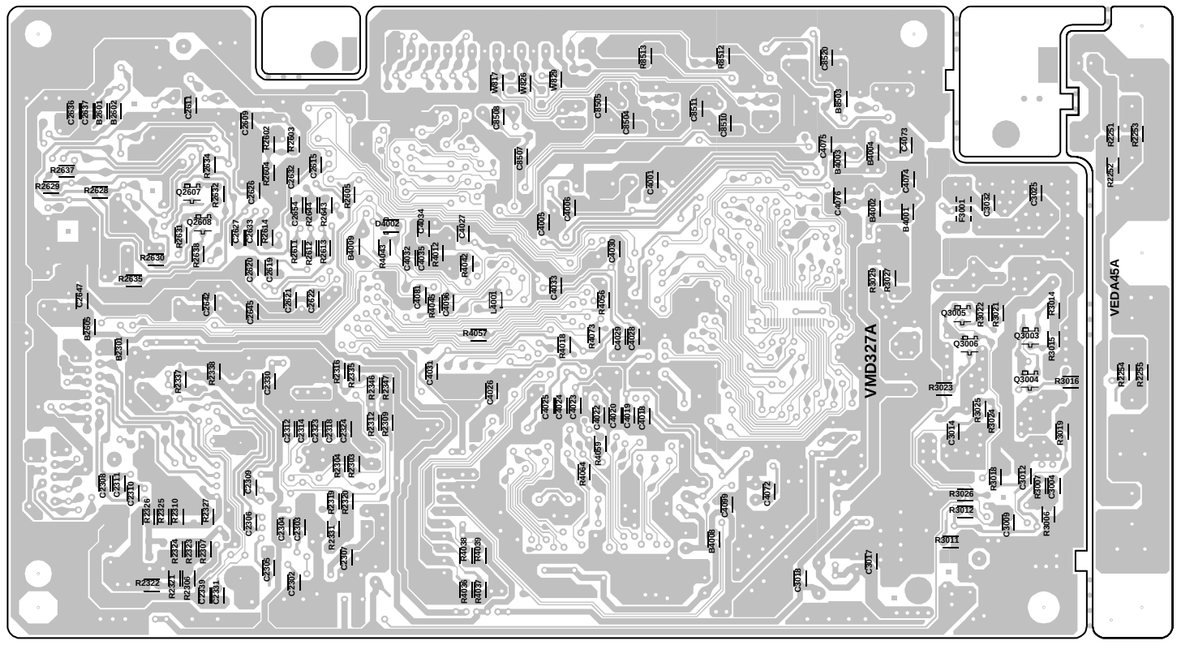
LCD (BOTTOM SIDE)



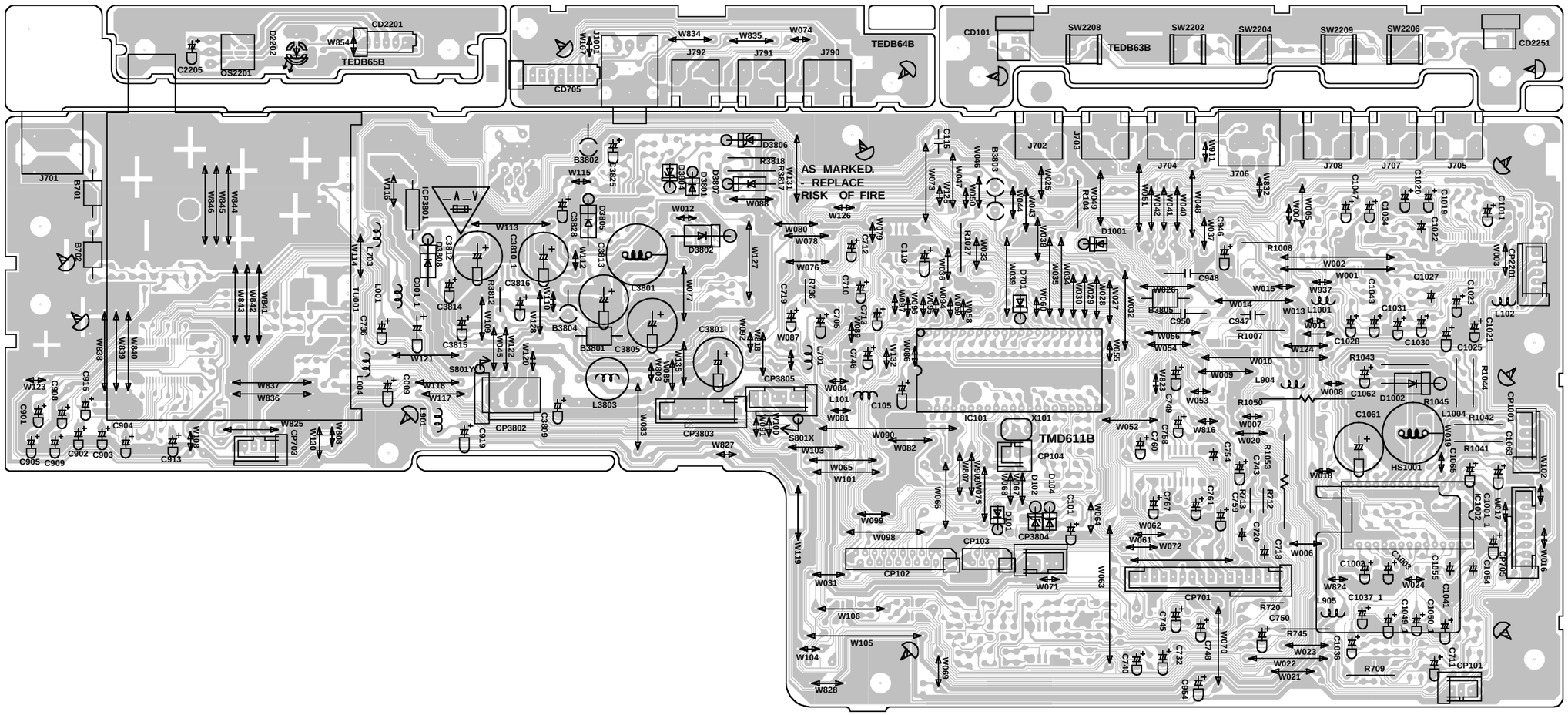
PRINTED CIRCUIT BOARDS
DVD/OPERATION2 (TOP SIDE)



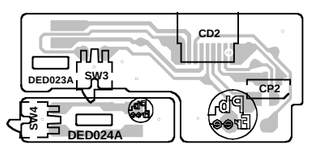
DVD/OPERATION2 (BOTTOM SIDE)



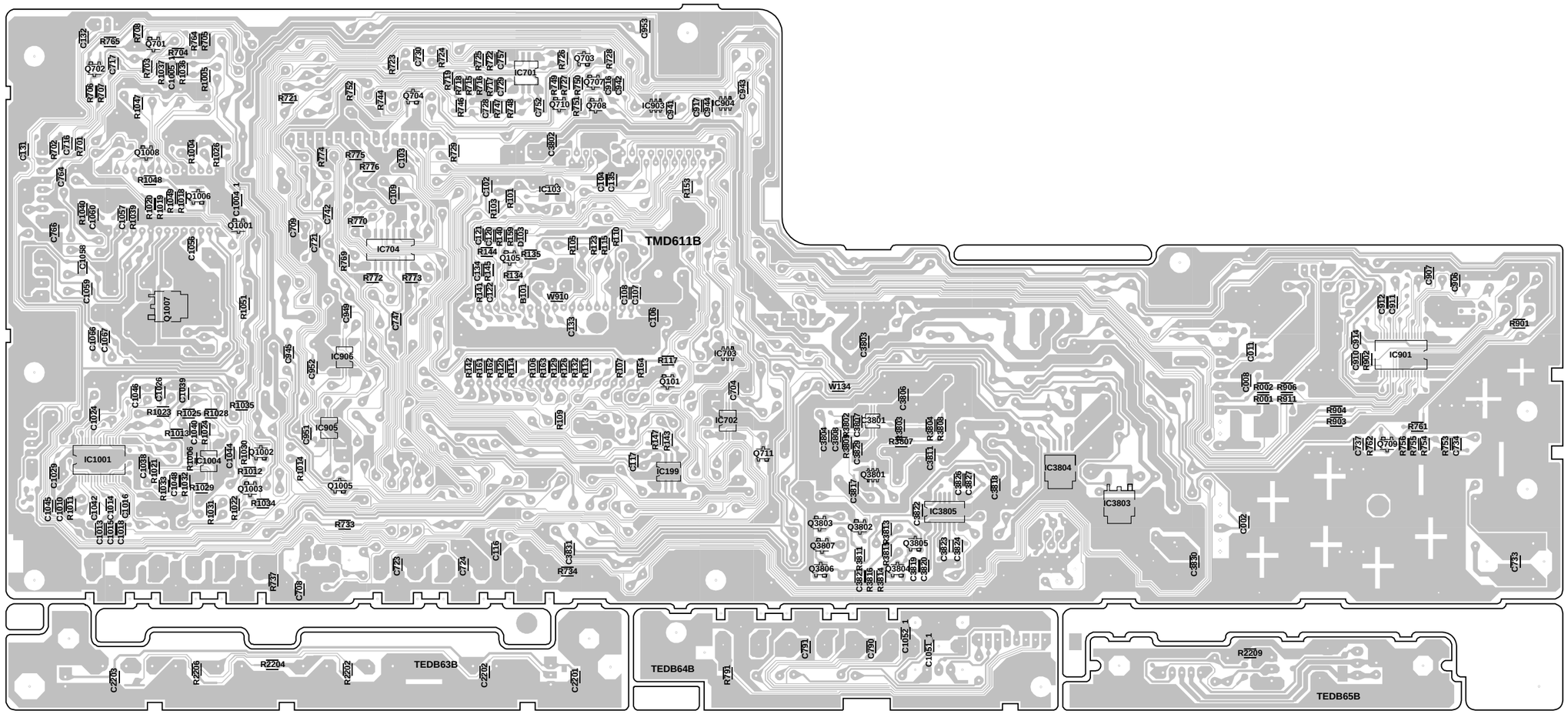
PRINTED CIRCUIT BOARDS
AV/REMOCON/SIDE JACK/OPERATION1 (INSERTED PARTS)
SOLDER SIDE



START SW/END SW
SOLDER SIDE

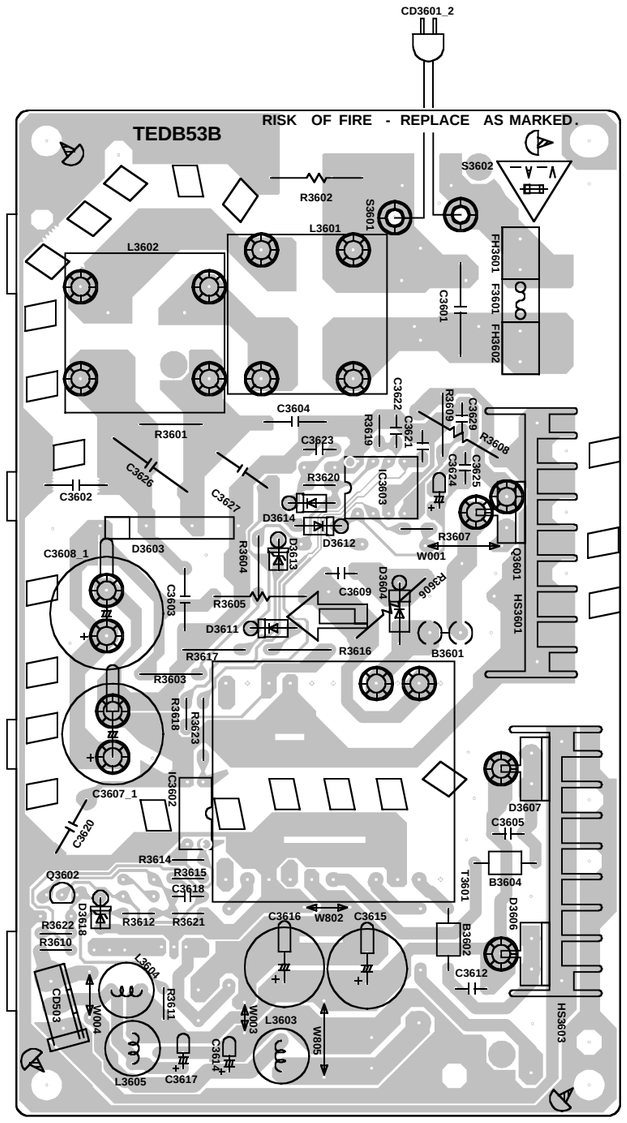


PRINTED CIRCUIT BOARDS
AV/REMOCON/SIDE JACK/OPERATION1 (CHIP MOUNTED PARTS)
SOLDER SIDE

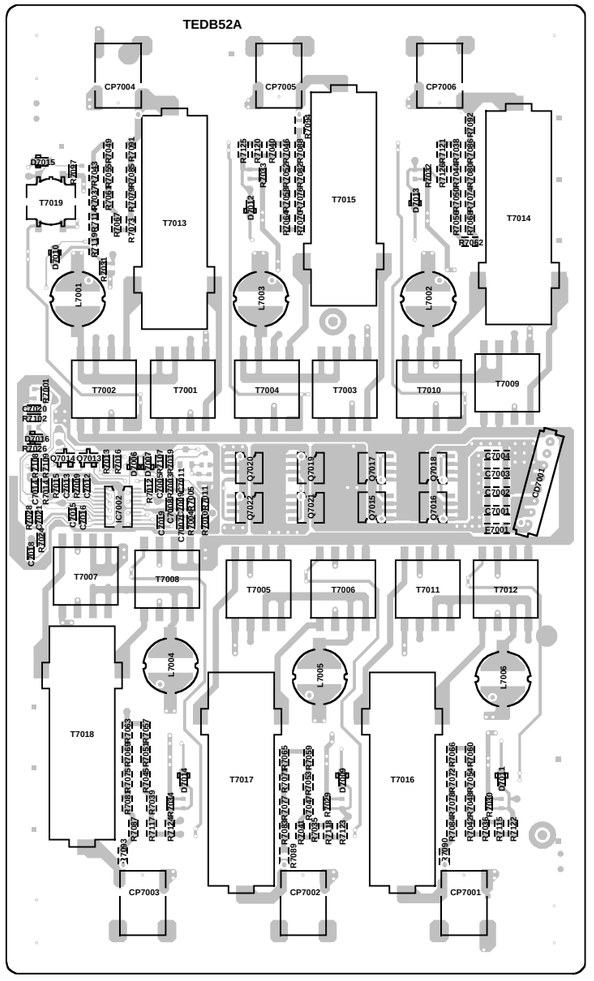


PRINTED CIRCUIT BOARDS

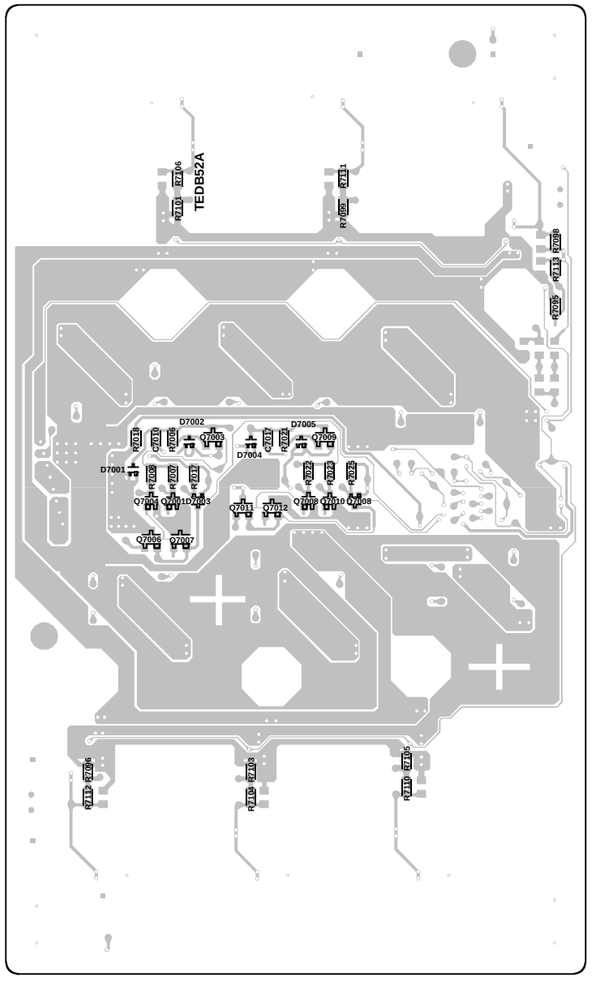
POWER
SOLDER SIDE



BACK LIGHT (TOP SIDE)



BACK LIGHT (BOTTOM SIDE)



MPEG/MICON/DSP SCHEMATIC DIAGRAM

(DVD PCB)

FROM/TO MEMORY2

FROM/TO AUDIO/VIDEO

FROM/TO RF AMP

FROM/TO MOTOR DRIVE

FROM REGULATOR2

MPEG/MICON/DSP IC
IC4001
ZR36762PQCG_V

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

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

DIGITAL AUDIO SIGNAL(PB)

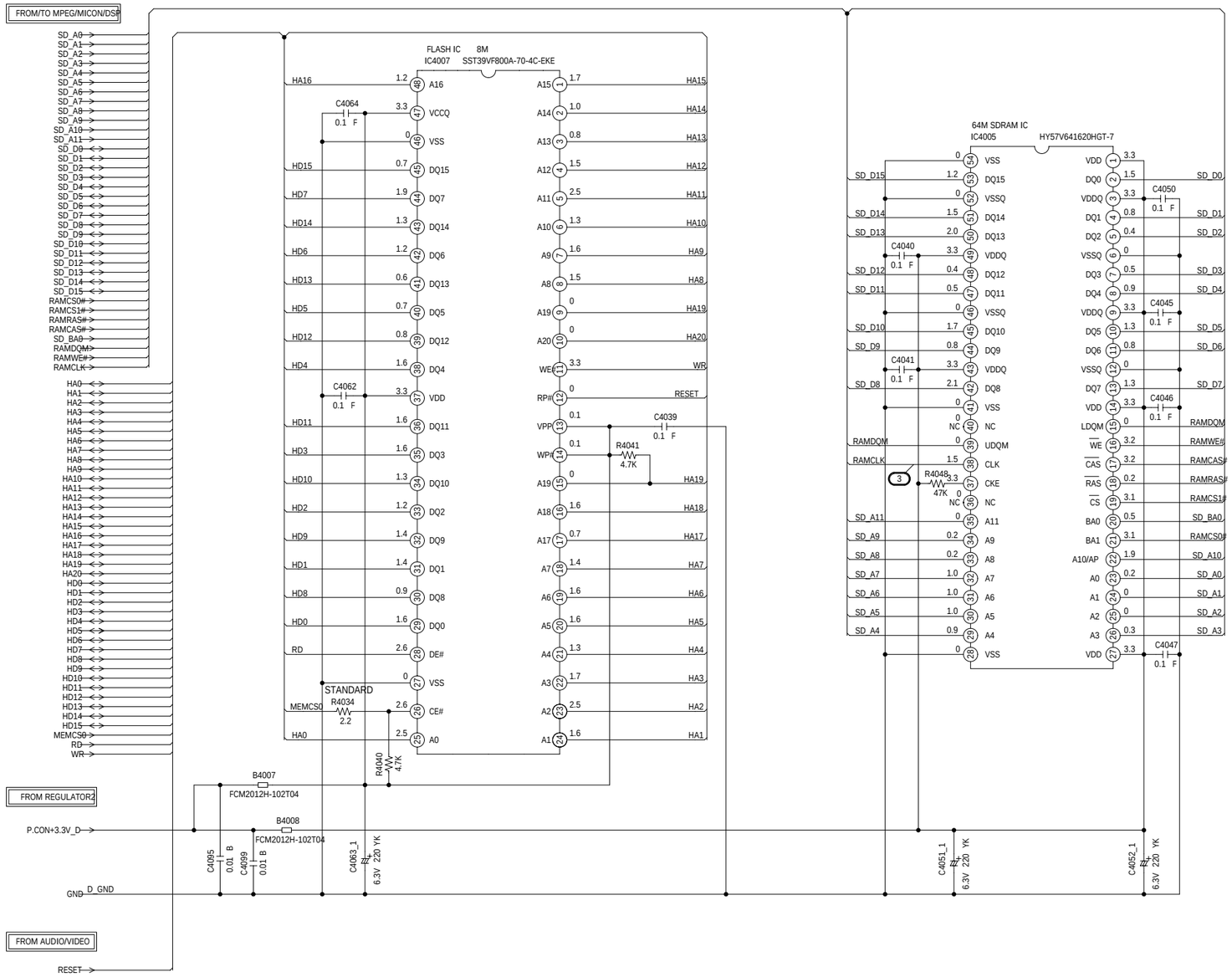
PCB130
VMD327

G-1

G-2

MEMORY2 SCHEMATIC DIAGRAM

(DVD PCB)



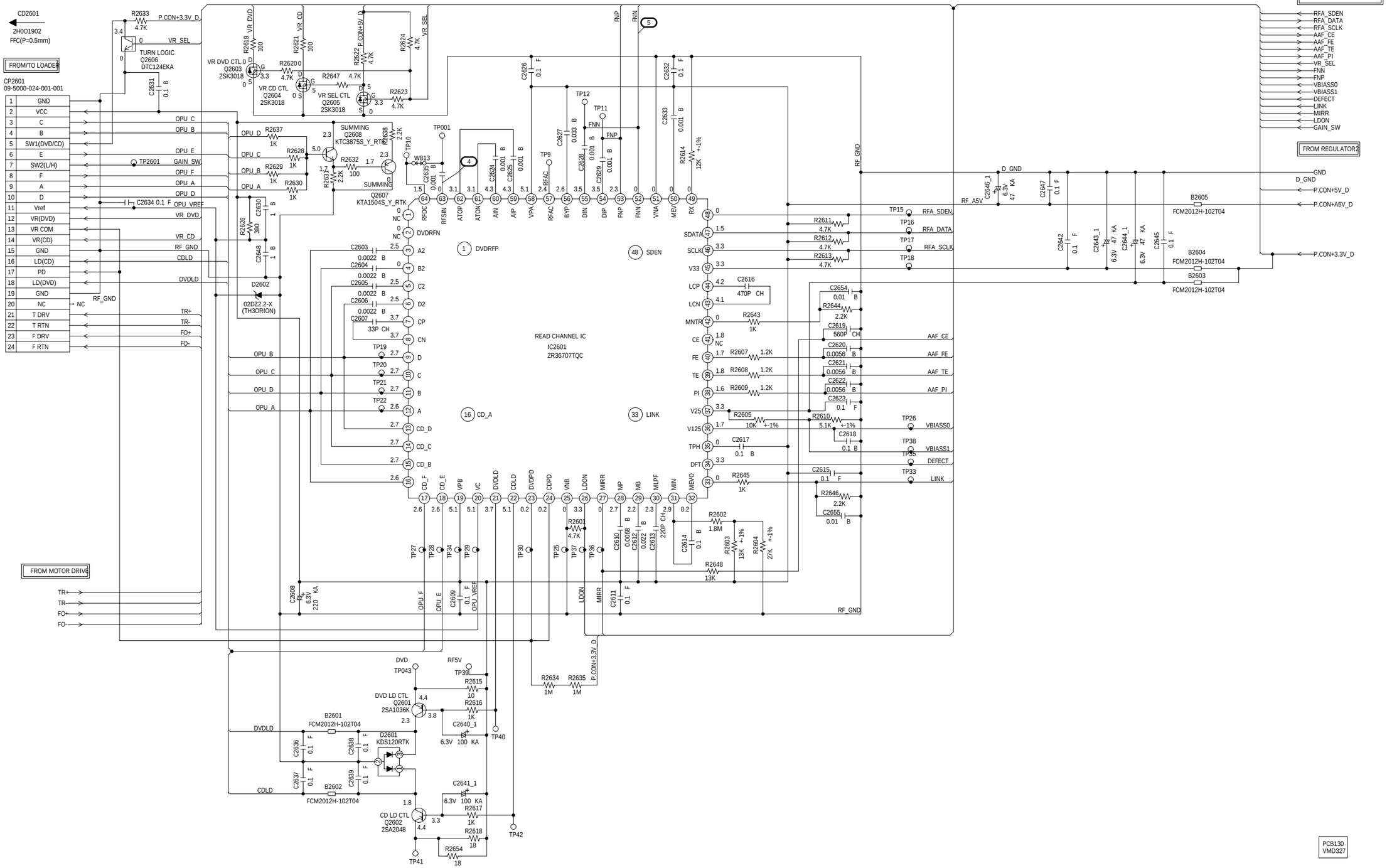
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

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

PCB130
VMD327

RF AMP SCHEMATIC DIAGRAM

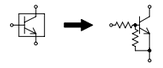
(DVD PCB)



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

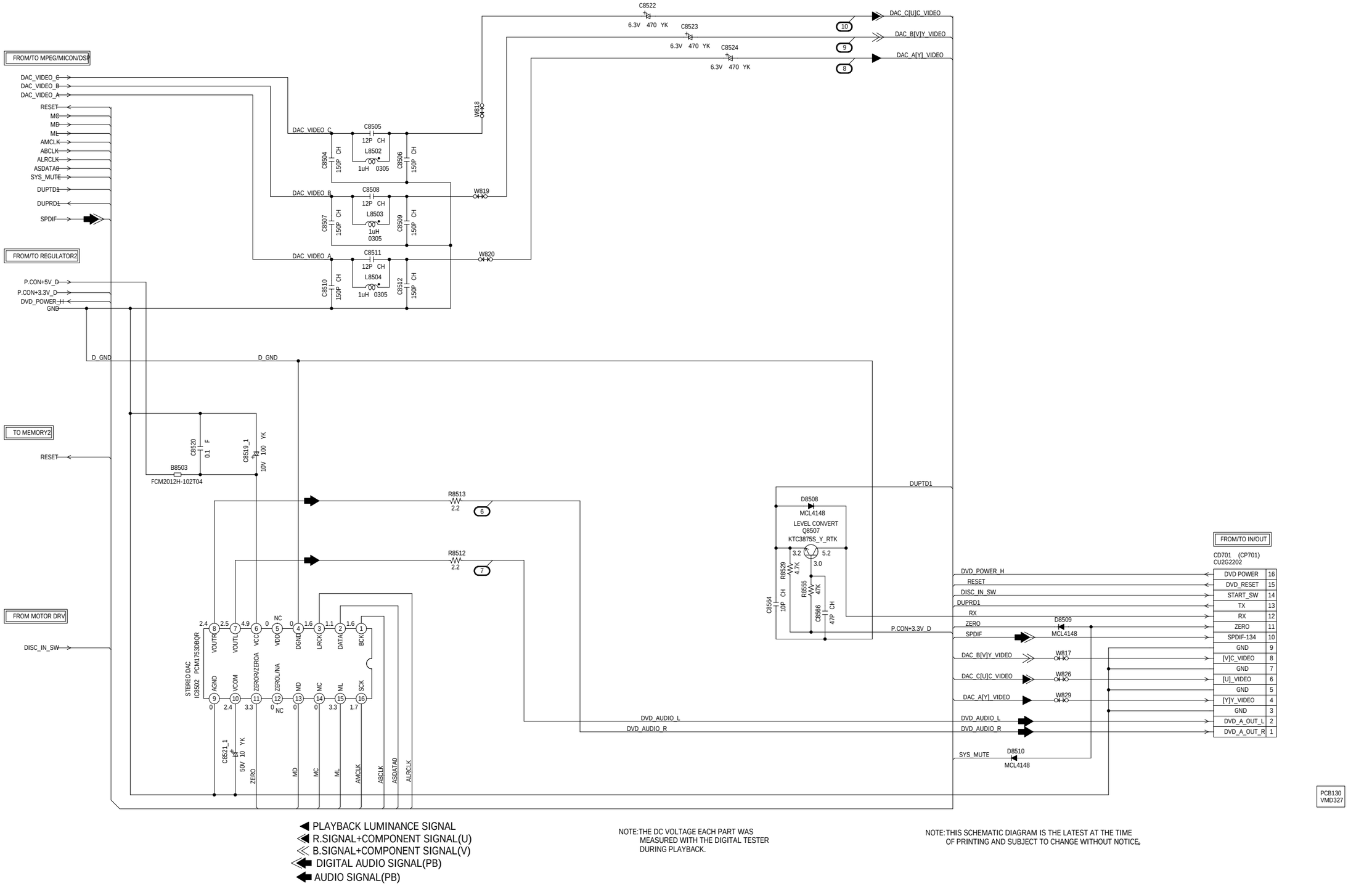
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: DIGITAL TRANSISTOR



AUDIO/VIDEO SCHEMATIC DIAGRAM

(DVD PCB)



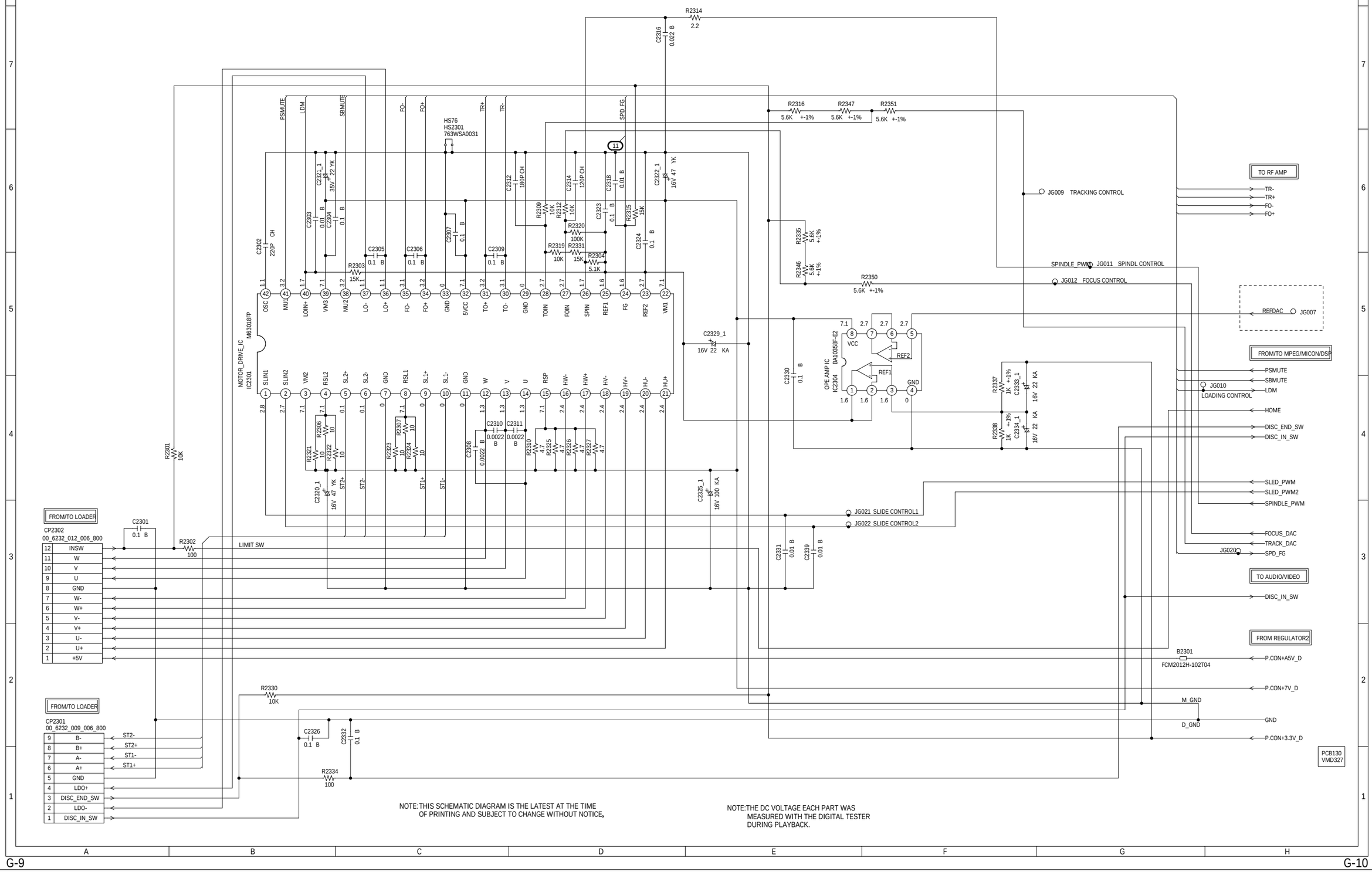
◀ PLAYBACK LUMINANCE SIGNAL
◀ R.SIGNAL+COMPONENT SIGNAL(U)
≪ B.SIGNAL+COMPONENT SIGNAL(V)
◀ DIGITAL AUDIO SIGNAL(PB)
◀ AUDIO SIGNAL(PB)

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

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

MOTOR DRIVE SCHEMATIC DIAGRAM

(DVD PCB)

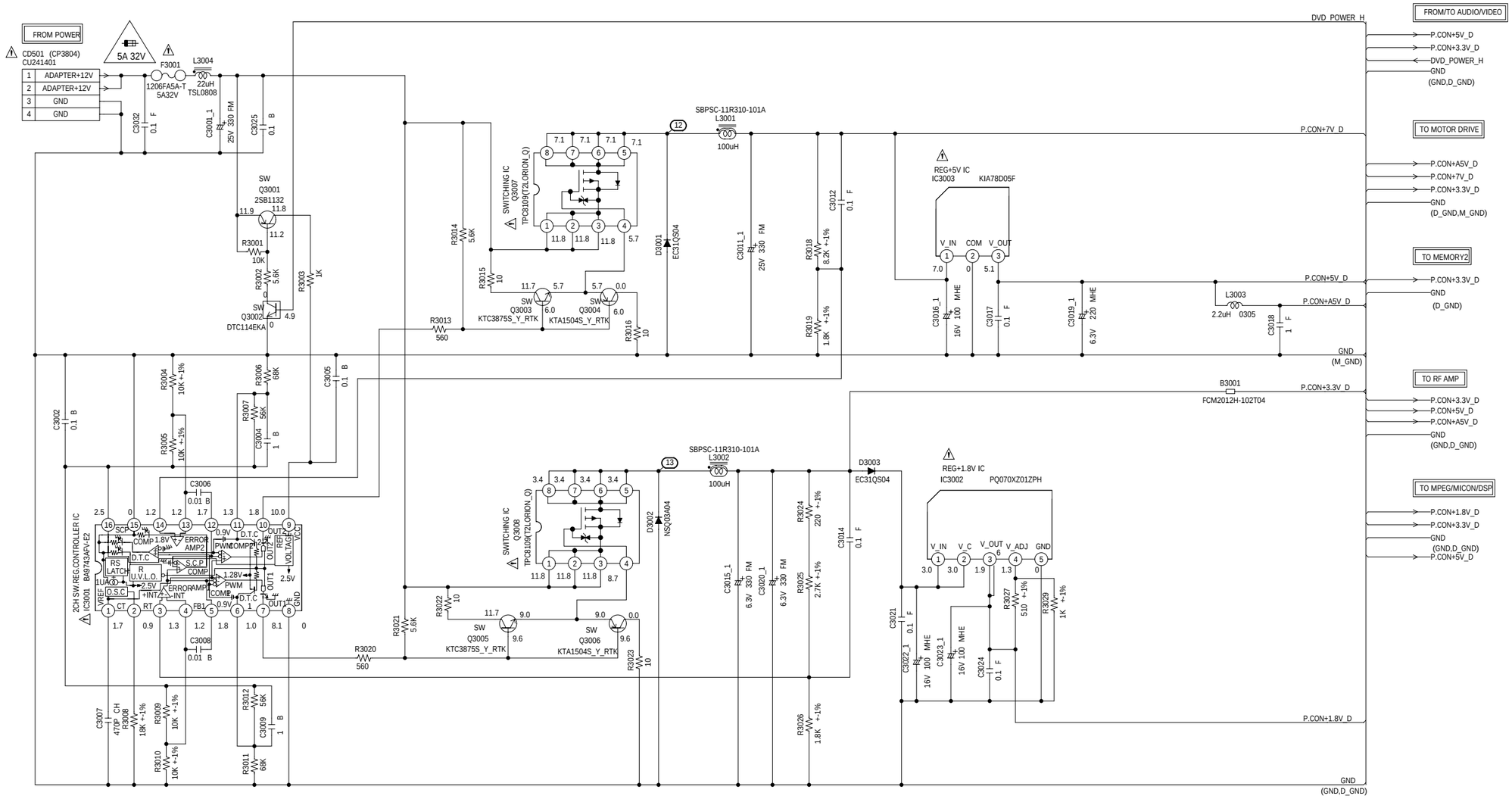


NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

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

REGULATOR2 SCHEMATIC DIAGRAM

(DVD PCB)



5A 32V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 5A 32V (F3001)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 5A 32V (F3001)

CAUTION: F3001 IS MANUFACTURED BY COOPER INDUSTRIES INC., TYPE 1206FA-T.

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

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

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

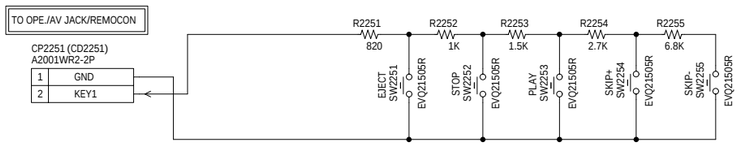
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

CAUTION: DIGITAL TRANSISTOR

PCB130
VMD327

OPERATION2 SCHEMATIC DIAGRAM

(OPERATION 2 PCB)



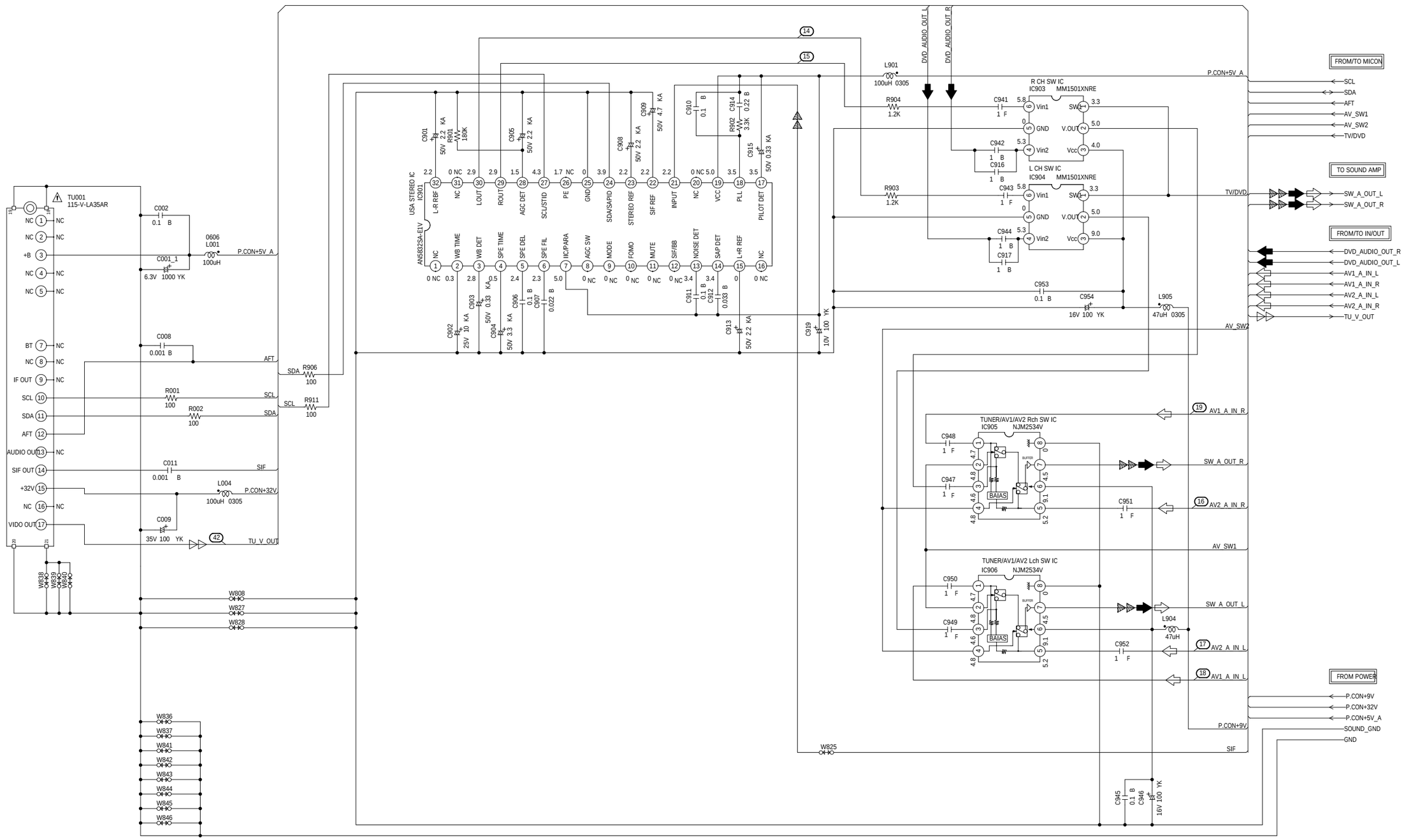
PCB280
VEDA45A

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.

TUNER/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.

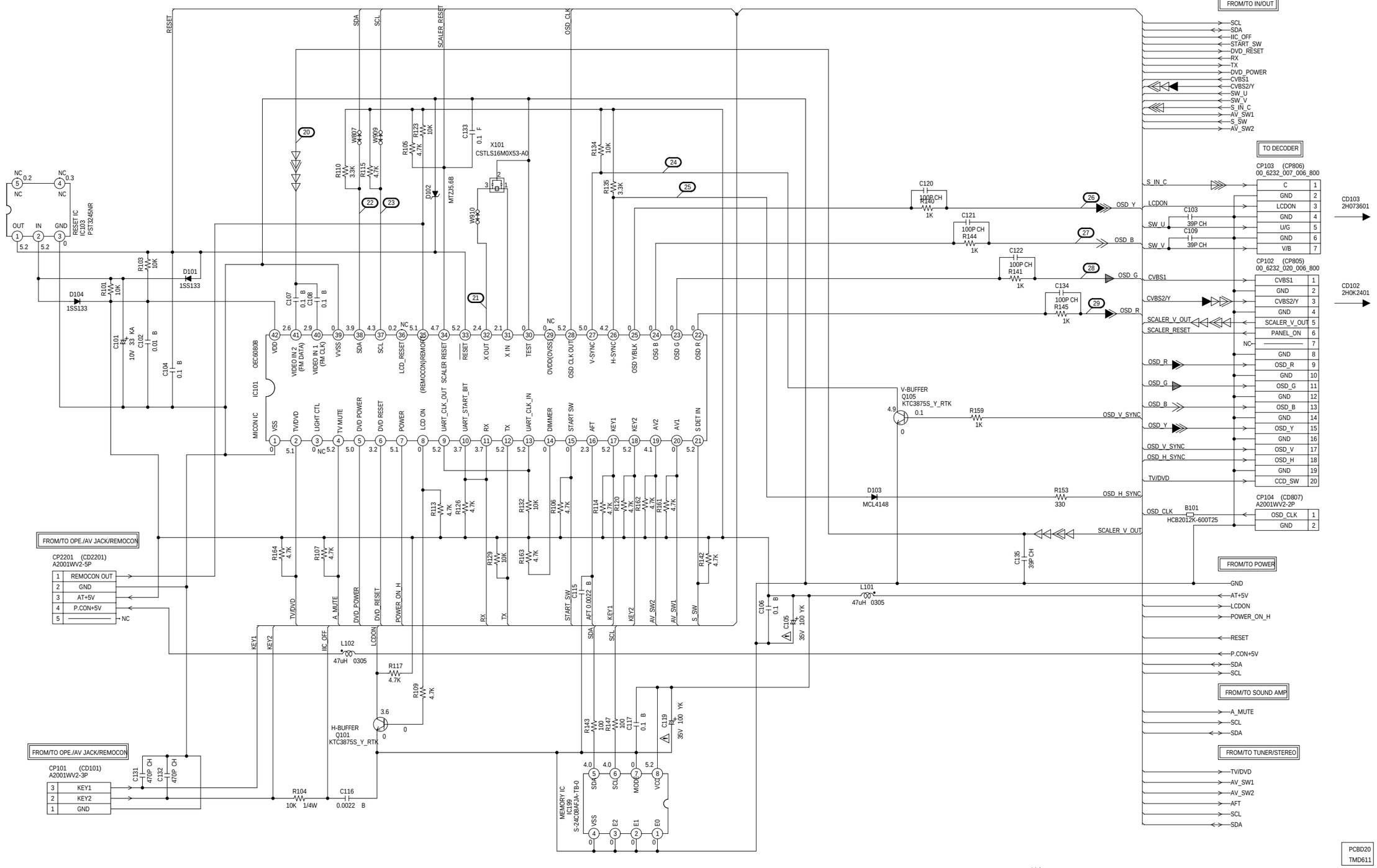
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY 。

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

TUNER VIDEO SIGNAL
AUDIO SIGNAL
TUNER AUDIO SIGNAL
AUDIO SIGNAL(PB)

MICON SCHEMATIC DIAGRAM

(AV PCB)



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

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

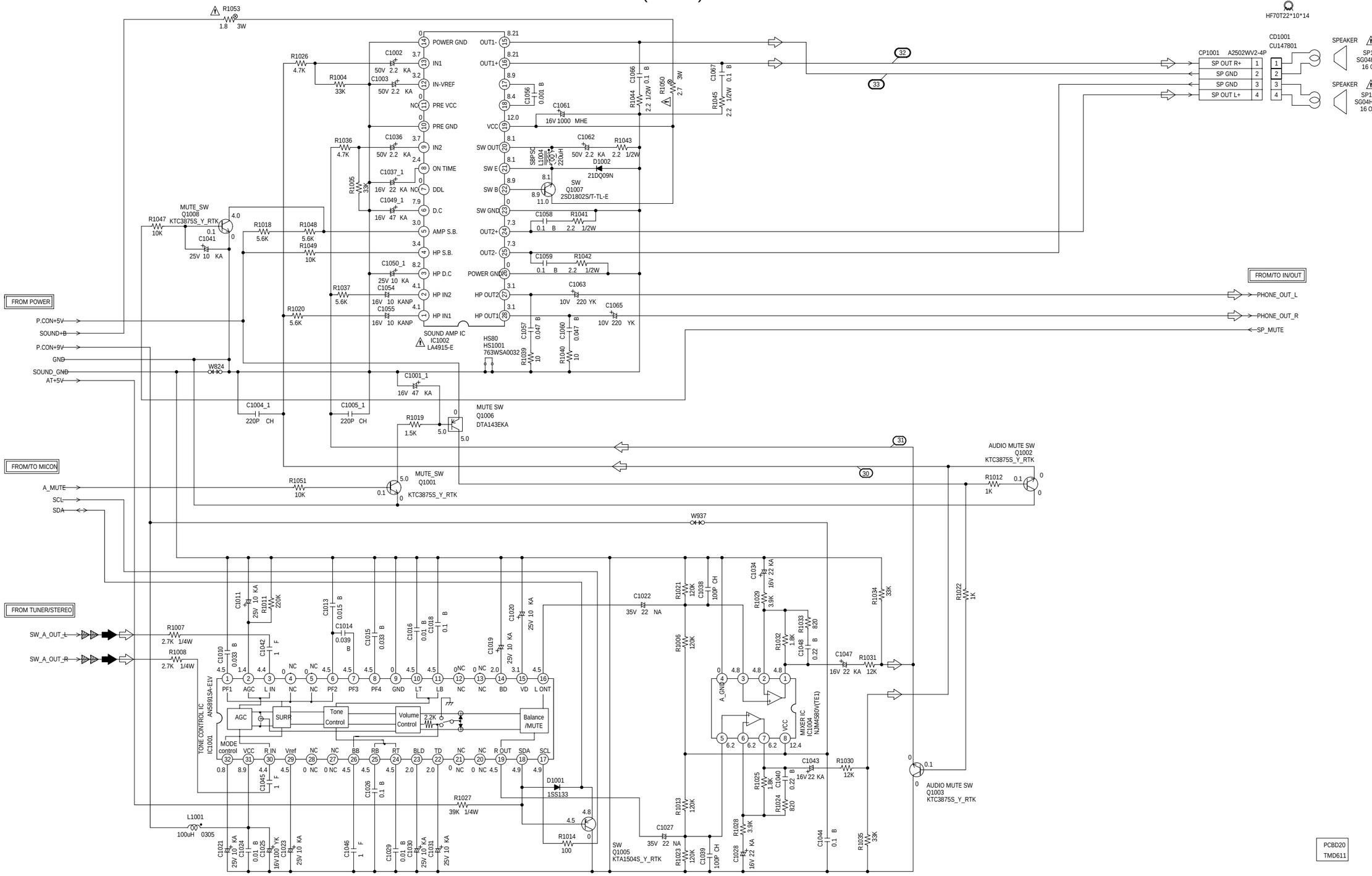
ATTENTION LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

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

- COLOR SIGNAL
- LUMINANCE SIGNAL
- B.SIGNAL
- G.SIGNAL
- R.SIGNAL
- TUNER VIDEO SIGNAL
- PLAYBACK VIDEO SIGNAL
- PLAYBACK LUMINANCE SIGNAL

SOUND AMP SCHEMATIC DIAGRAM

(AV PCB)



AUDIO SIGNAL(PB)

TUNER AUDIO SIGNAL

AUDIO SIGNAL

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

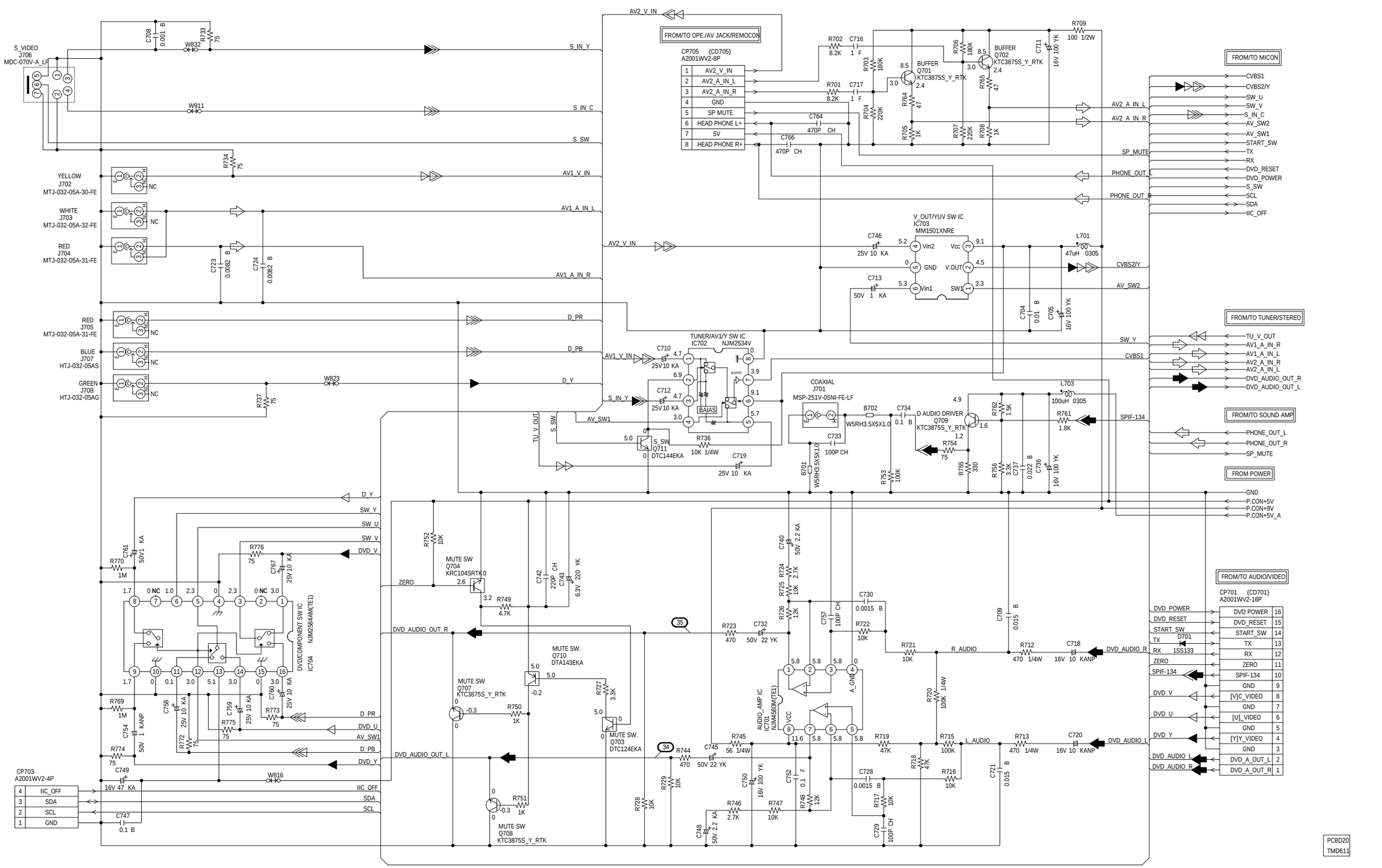
NOTE:THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE。

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

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

IN/OUT SCHEMATIC DIAGRAM

(AV PCB)



LUMINANCE SIGNAL
COLOR SIGNAL
PLAYBACK VIDEO SIGNAL
PLAYBACK LUMINANCE SIGNAL
R.SIGNAL
B.SIGNAL

AUDIO SIGNAL(PB)
G.SIGNAL
AUDIO SIGNAL
TUNER VIDEO SIGNAL
DIGITAL AUDIO SIGNAL(PB)
PLAYBACK COLOR SIGNAL

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

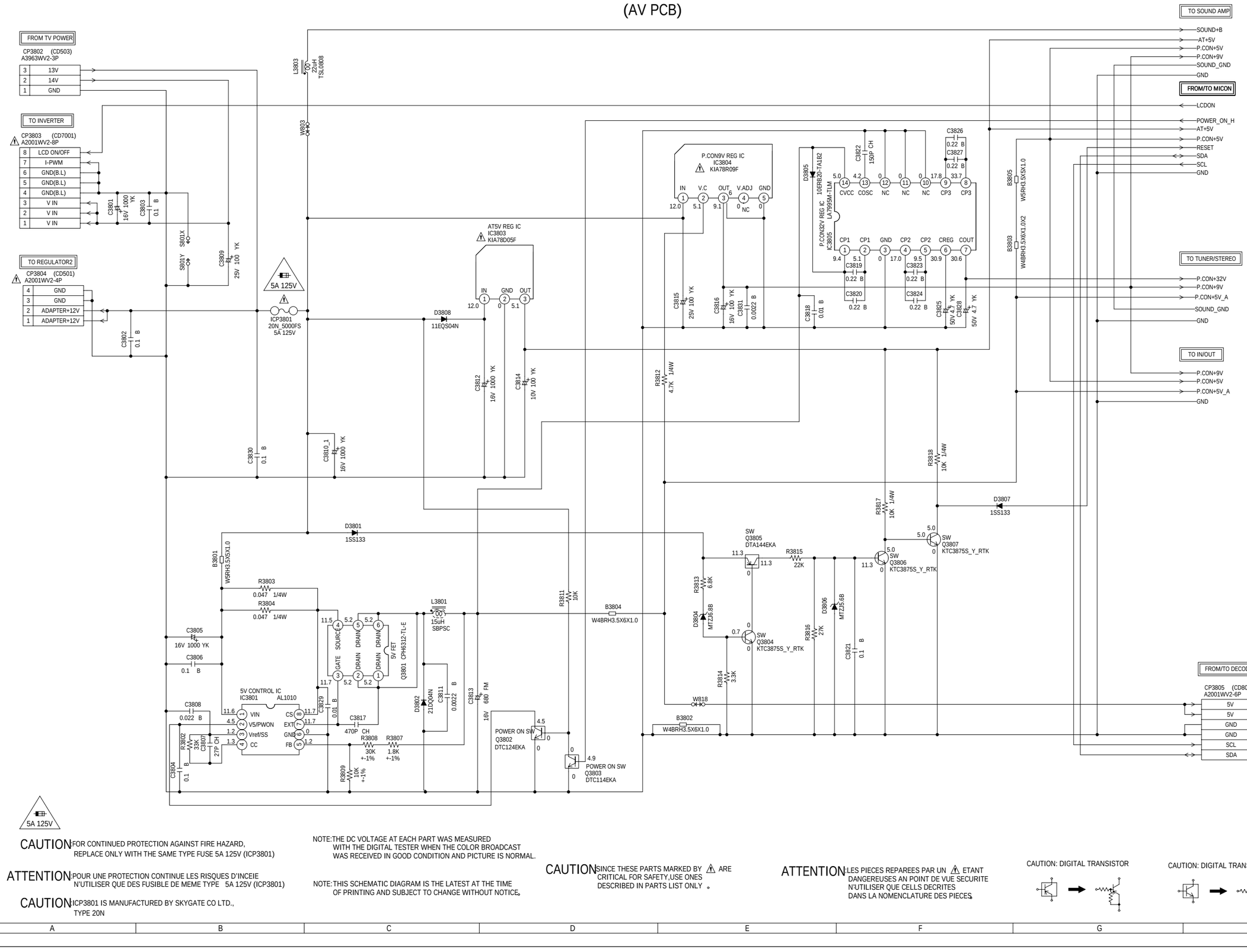
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: DIGITAL TRANSISTOR

CAUTION: DIGITAL TRANSISTOR

POWER SCHEMATIC DIAGRAM

(AV PCB)



5A 125V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE 5A 125V (ICP3801)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 5A 125V (ICP3801)

CAUTION: ICP3801 IS MANUFACTURED BY SKYGATE CO LTD., TYPE 20N

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

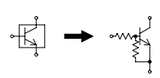
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

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

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

CAUTION: DIGITAL TRANSISTOR

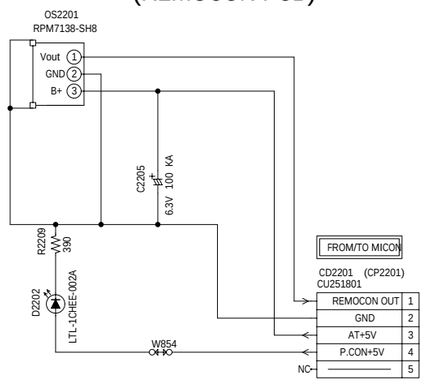
CAUTION: DIGITAL TRANSISTOR



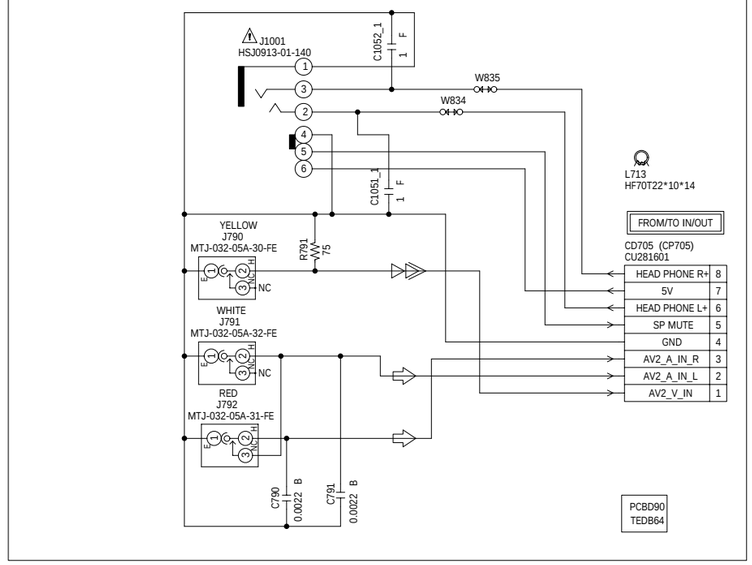
PCBD20
TMD611

OPERATION/AV JACK/REMOCON SCHEMATIC DIAGRAM

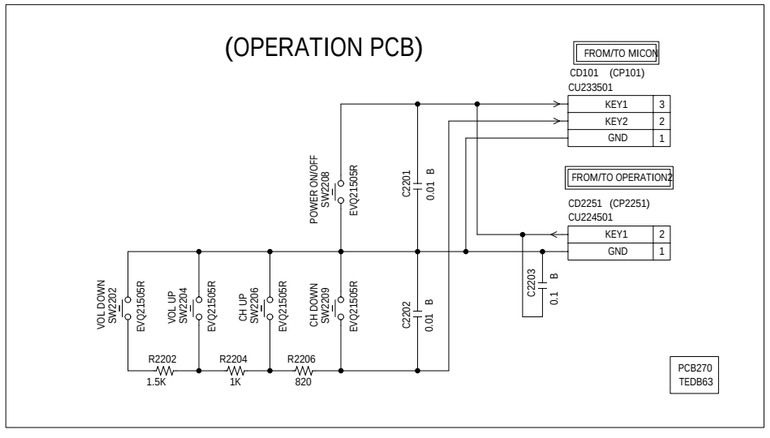
(REMOCON PCB)

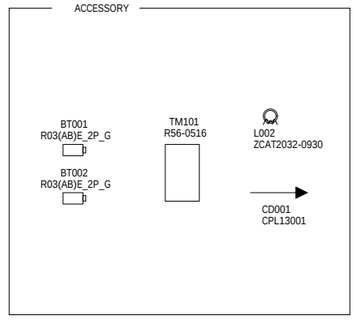


(SIDE JACK PCB)



(OPERATION PCB)





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

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

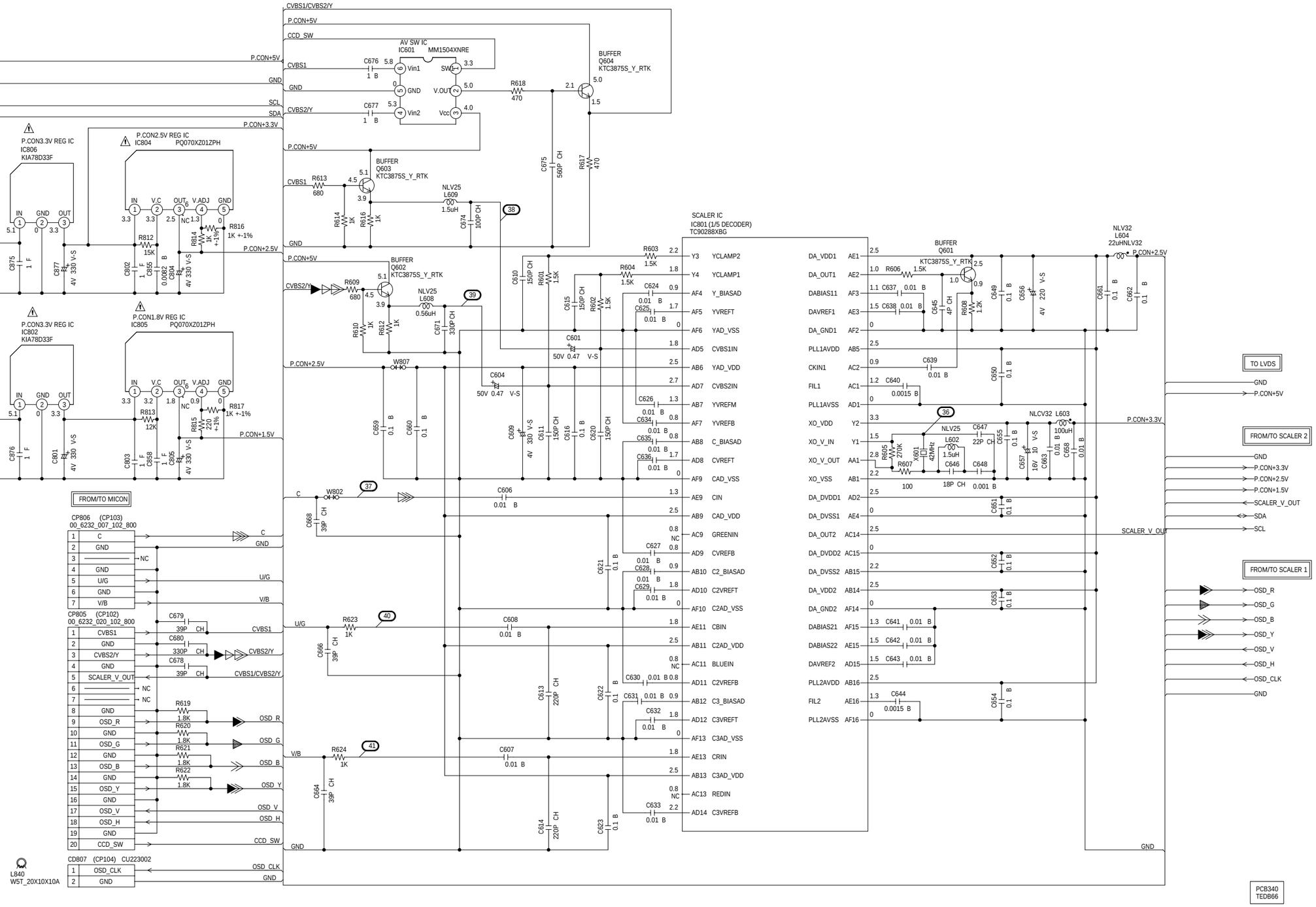
CAUTION:SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY .

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

⇦ AUDIO SIGNAL(REC)
⇦ PLAYBACK VIDEO SIGNAL

DECODER SCHEMATIC DIAGRAM

(LCD PCB)



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

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

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

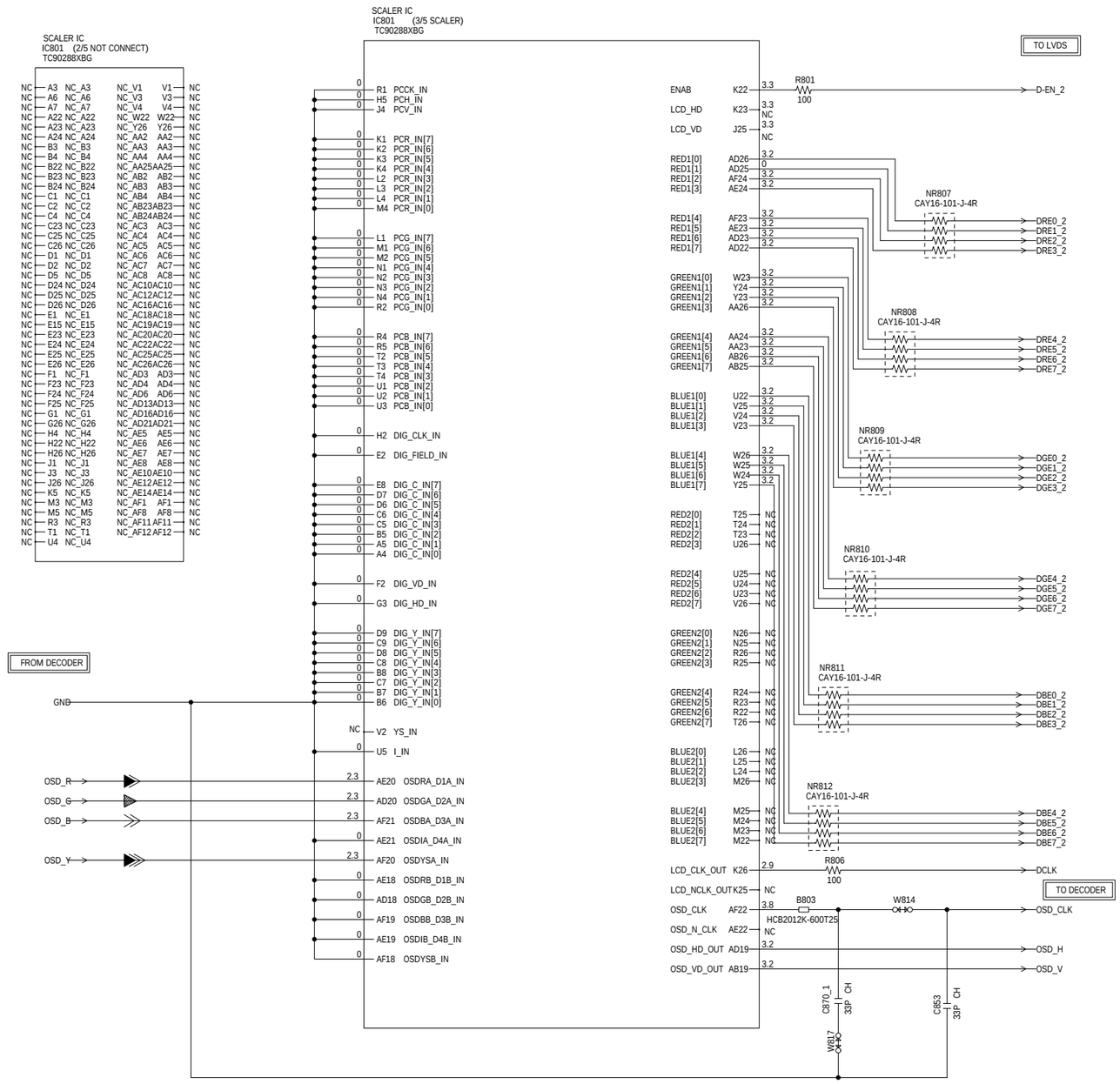
NOTE: THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

COLOR SIGNAL
PLAYBACK VIDEO SIGNAL
PLAYBACK LUMINANCE SIGNAL
LUMINANCE SIGNAL

B.SIGNAL
G.SIGNAL
R.SIGNAL

SCALER1 SCHEMATIC DIAGRAM

(LCD PCB)



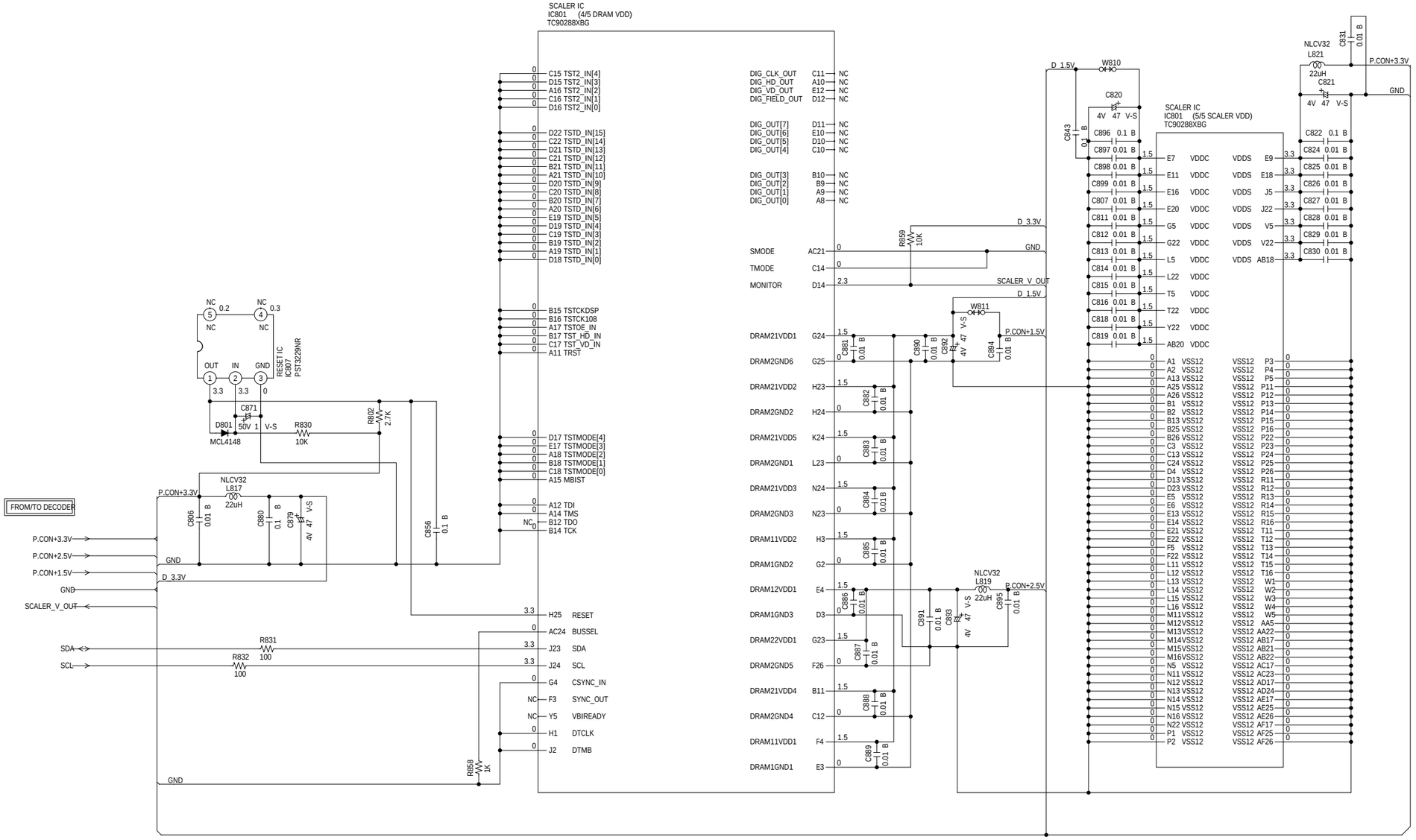
NOTE:THE DC VOLTAGE EACH PART WAS MEASURED WITH THE DIGITAL TESTER DURING PLAYBACK.

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

LUMINANCE SIGNAL
B.SIGNAL
G.SIGNAL
R.SIGNAL

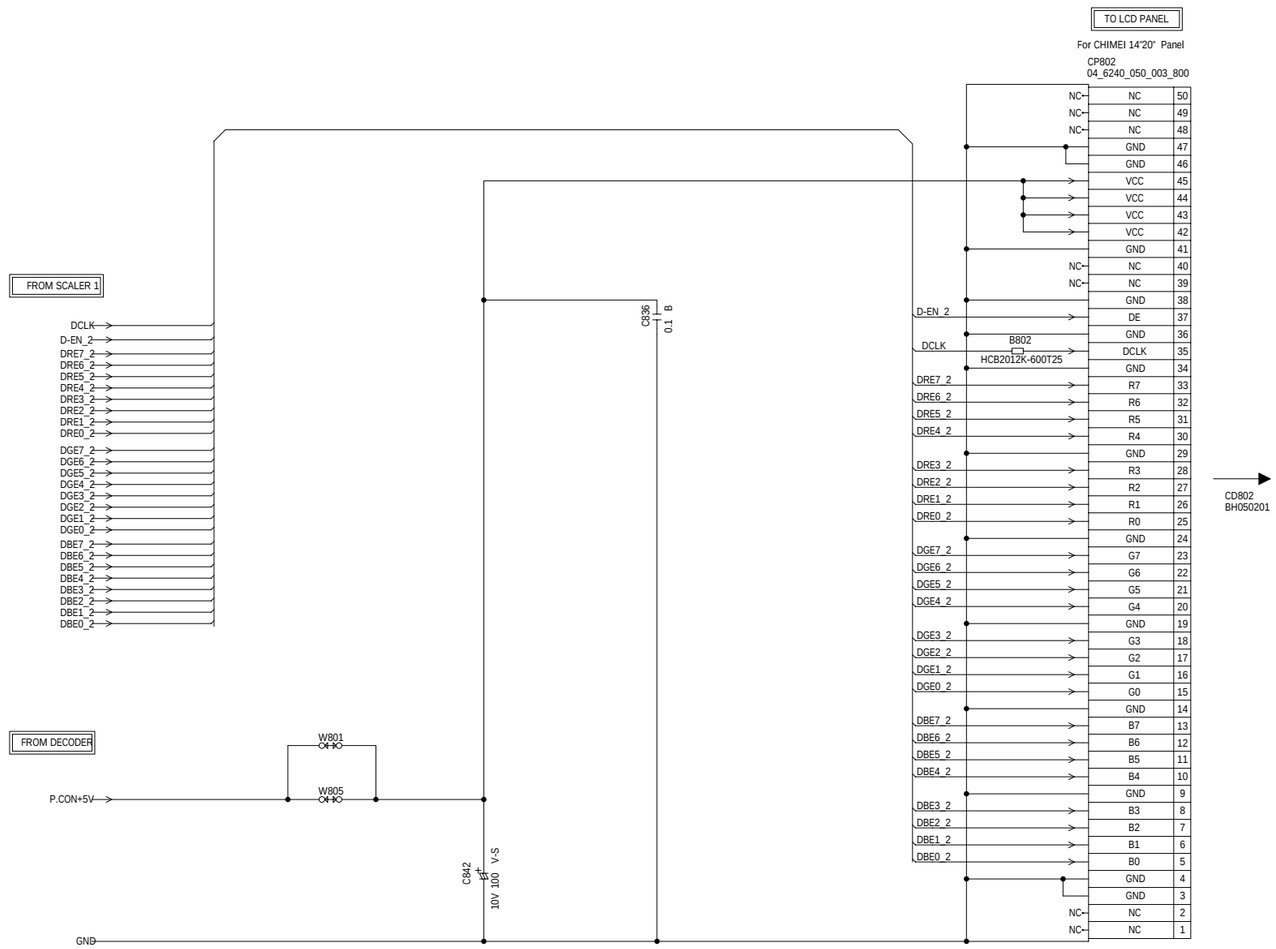
SCALER2 SCHEMATIC DIAGRAM

(LCD PCB)



LVDS SCHEMATIC DIAGRAM

(LCD PCB)

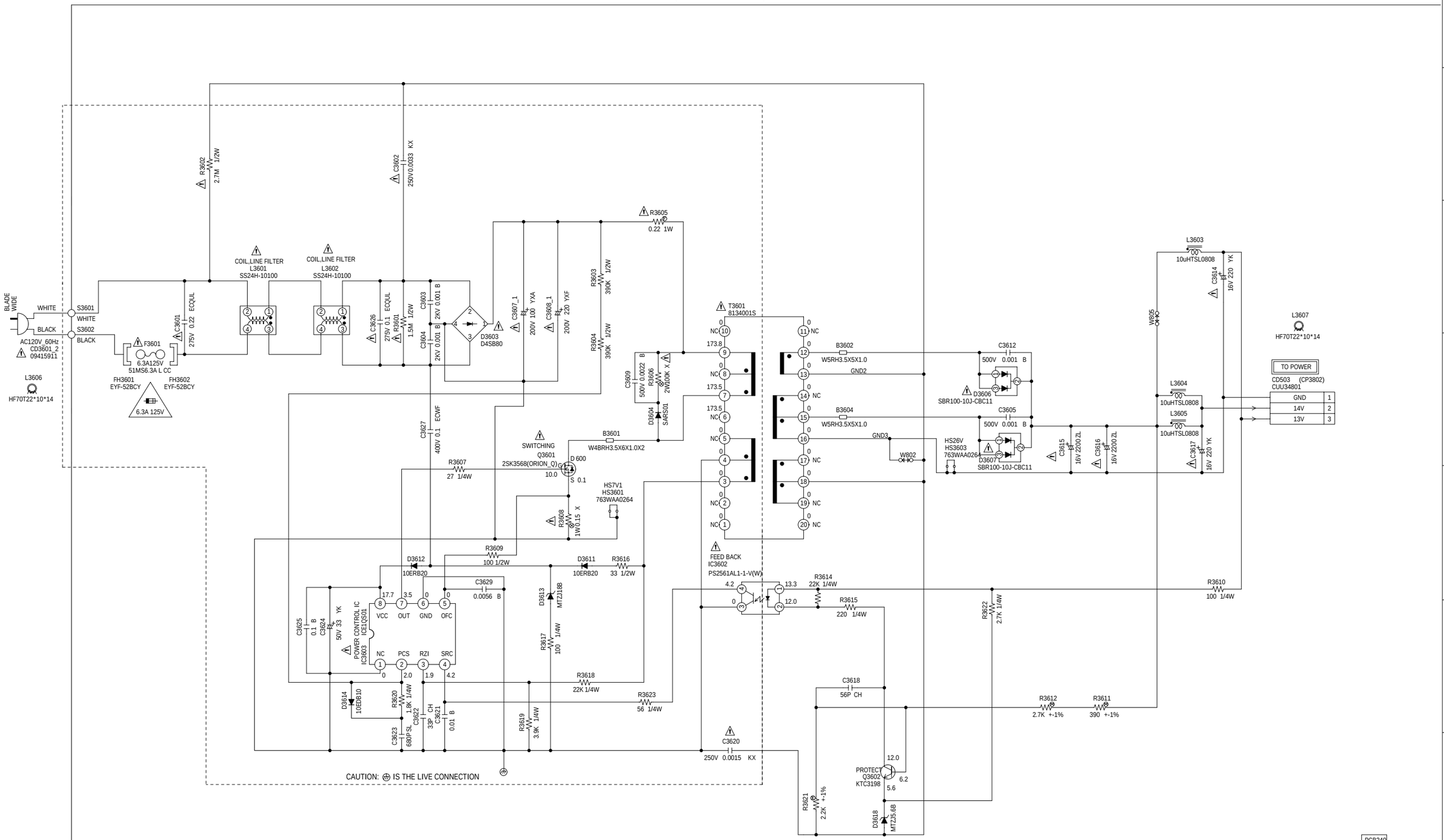


PCB340
TEDB66

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

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

TV POWER SCHEMATIC DIAGRAM
(POWER PCB)



6.3A 125V

CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE6.3A 125V (F3601)

ATTENTION: POUR UNE PROTECTION CONTINUE LES RISQUES D'INCEIE N'UTILISER QUE DES FUSIBLE DE MEME TYPE 6.3A 125V (F3601)

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

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

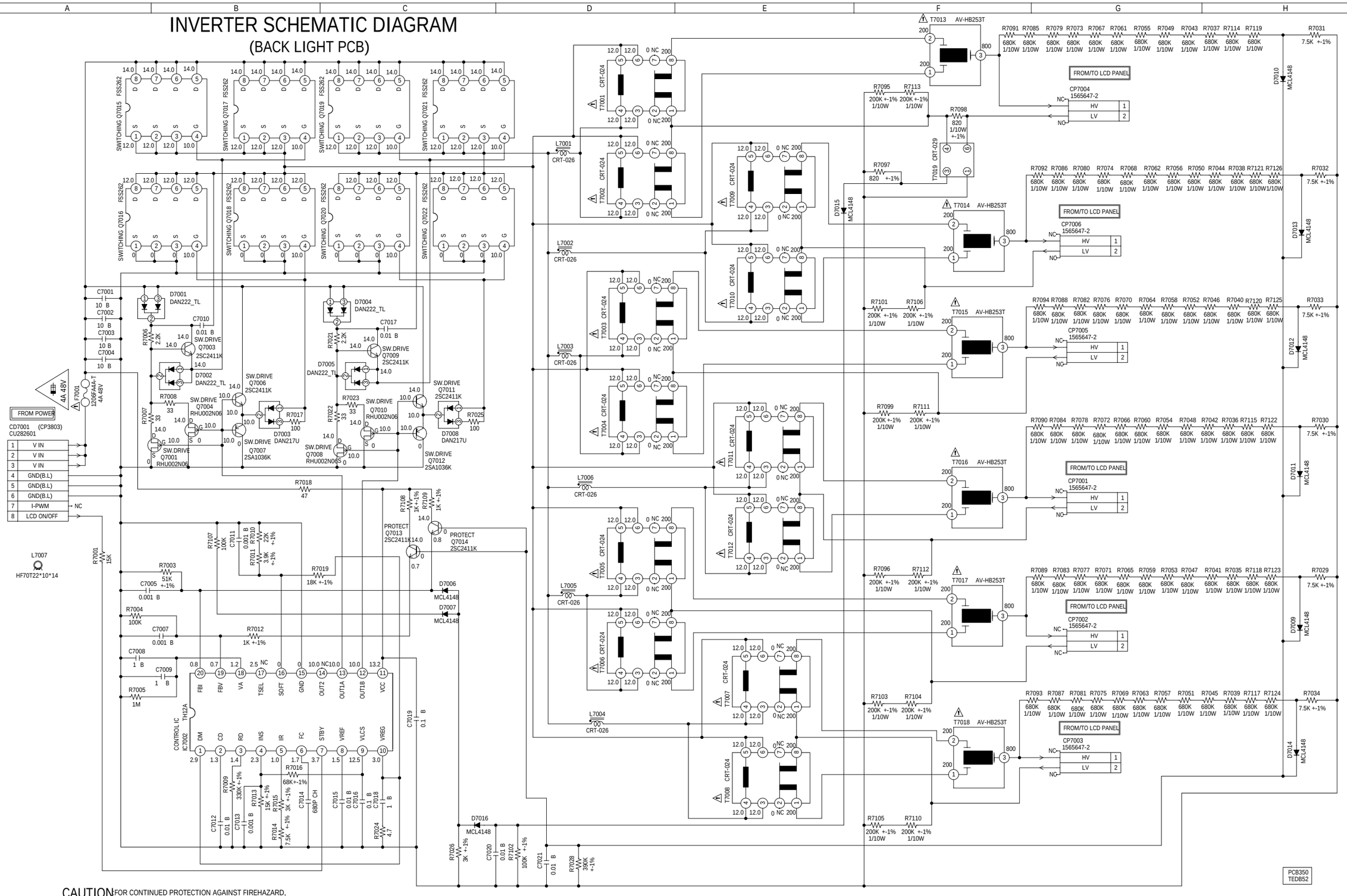
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES.

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

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

INVERTER SCHEMATIC DIAGRAM

(BACK LIGHT PCB)



CAUTION FOR CONTINUED PROTECTION AGAINST FIREHAZARD, REPLACE ONLY WITH SAME TYPE SAME RATING FUSE

ATTENTION POUR LA PROTECTION CONTINUE CONTRE LE RISQUE DU FEU, REMPLACEZ SEULEMENT PAR UN FUSIBLE DU MEME TYPE DU MEME NOMINAL

CAUTION F7001 IS MANUFACTURED BY COOPER INDUSTRIES INC., TYPE 1206FA-T.

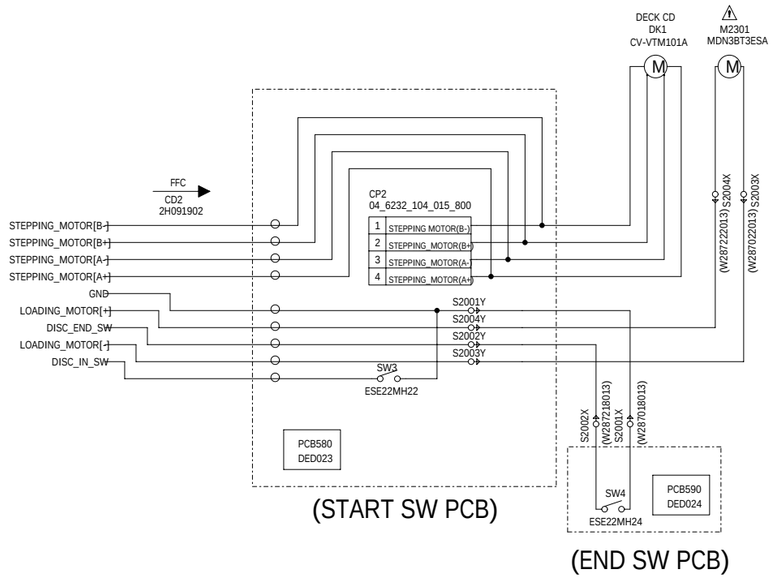
CAUTION SINCE THESE PARTS MARKED BY ⚠ ARE CRITICAL FOR SAFETY,USE ONES DESCRIBED IN PARTS LIST ONLY 。

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

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

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

START SW/END SW SCHEMATIC DIAGRAM



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

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

INTERCONNECTION DIAGRAM

CD3601_2 — BLADE WIDE — WHITE — BLACK — S3601 — S3602 — L3606

POWER PCB
PCB240
TEDB53

L3607

CD503: GND 1, 14V 2, 13V 3

CP3802: 1 GND, 2 14V, 3 13V

SP1002 16 OHM — SP1001 16 OHM — CD1001: 1, 2, 3, 4

CP1001: 1 SP OUT R+, 2 SP GND, 3 SP GND, 4 SP OUT L+

L1003

S_VIDEO J706

YELLOW FRONT VIDEO JACK J702 — WHITE FRONT AUDIO JACK J703 — RED FRONT AUDIO JACK J704 — COAXIAL J701 — RED COMPONENT JACK J705 — BLUE COMPONENT JACK J707 — GREEN COMPONENT JACK J708

CP701: DVD POWER 16, DVD_RESET 15, START_SW 14, TX 13, RX 12, ZERO 11, SPDIF-134 10, GND 9, [V]C_VIDEO 8, GND 7, [V]_VIDEO 6, GND 5, [Y]Y_VIDEO 4, GND 3, DVD_A_OUT_L 2, DVD_A_OUT_R 1

CD701: 16 DVD POWER, 15 DVD_RESET, 14 START_SW, 13 TX, 12 RX, 11 ZERO, 10 SPDIF-134, 9 GND, 8 [V]C_VIDEO, 7 GND, 6 [U]_VIDEO, 5 GND, 4 [Y]Y_VIDEO, 3 GND, 2 DVD_A_OUT_L, 1 DVD_A_OUT_R

CP2601: 1 GND, 2 VCC, 3 C, 4 B, 5 SW1(DVD/CD), 6 E, 7 SW2(L/H), 8 F, 9 A, 10 D, 11 Vref, 12 VR(DVD), 13 VR COM, 14 VR(CD), 15 GND, 16 LD(CD), 17 PD, 18 LD(DVD), 19 GND, 20 NC, 21 T DRV, 22 T RTN, 23 F DRV, 24 F RTN

FFC CD2601: 1 GND, 2 VCC, 3 C, 4 B, 5 SW1(DVD/CD), 6 E, 7 SW2(L/H), 8 F, 9 A, 10 D, 11 Vref, 12 VR(DVD), 13 VR COM, 14 VR(CD), 15 GND, 16 LD(CD), 17 PD, 18 LD(DVD), 19 GND, 20 NC, 21 T DRV, 22 T RTN, 23 F DRV, 24 F RTN

SLOT IN DVD DRIVE
DK1
CV_VTM101A

OPTICAL PICK-UP

SPINDLE MOTOR

LOADING MOTOR

SLED MOTOR

CP7004: 1 HV, 2 LV
CP7006: 1 HV, 2 LV
CP7005: 1 HV, 2 LV
CP7001: 1 HV, 2 LV
CP7002: 1 HV, 2 LV
CP7003: 1 HV, 2 LV

BACK LIGHT PCB
PCB350
TEDB52

L7007

CD7001: V IN 1, V IN 2, V IN 3, GND(B.L) 4, GND(B.L) 5, GND(B.L) 6, I-PWM 7, LCD ON/OFF 8

CP3803: 1 V IN, 2 V IN, 3 V IN, 4 GND(B.L), 5 GND(B.L), 6 GND(B.L), 7 I-PWM, 8 LCD ON/OFF

CP3804: ADAPTER+12V 1, ADAPTER+12V 2, GND 3, GND 4

CD501: 1 ADAPTER+12V, 2 ADAPTER+12V, 3 GND, 4 GND

OPERATION1 PCB
PCB270
TEDB63

CD101: GND 1, KEY2 2, KEY1 3

CP101: 1 GND, 2 KEY2, 3 KEY1

CD2251: GND, KEY1

CP2251: GND, KEY1

OPERATION2 PCB
PCB280
VEDA45

AV PCB
PCBD20
TMD611

CP3805: 5V 1, 5V 2, GND 3, GND 4, SCL 5, SDA 6

CD804: 1 5V, 2 5V, 3 GND, 4 GND, 5 SCL, 6 SDA

CP802: NC 1, NC 2, GND 3, GND 4, B0 5, B1 6, B2 7, B3 8, GND 9, B4 10, B5 11, B6 12, B7 13, GND 14, G0 15, G1 16, G2 17, G3 18, GND 19, G4 20, G5 21, G6 22, G7 23, GND 24, R0 25, R1 26, R2 27, R3 28, GND 29, R4 30, R5 31, R6 32, R7 33, GND 34, DCLK 35, GND 36, DE 37, GND 38, NC 39, NC 40, GND 41, VCC 42, VCC 43, VCC 44, VCC 45, GND 46, GND 47, NC 48, NC 49, NC 50

DVD PCB
PCB130
VMD327

CP2302: INSW 12, W 11, V 10, U 9, GND 8, W- 7, W+ 6, V- 5, V+ 4, U- 3, U+ 2, +5V 1

CP2301: B- 9, B+ 8, A- 7, A+ 6, GND 5, LDO+ 4, DISC_END_SW 3, LDO- 2, DISC_IN_SW 1

TO LCD PANEL CD802

CP103: C 1, GND 2, LCDON 3, GND 4, U/G 5, GND 6, V/B 7

FFC CD103

CD806: 1 C, 2 GND, 3 LCDON, 4 GND, 5 U/G, 6 GND, 7 V/B

CP102: CVBS1 1, GND 2, CVBS2/Y 3, GND 4, SCALER_V_OUT 5, PANEL_ON 6, SCART/TEXT Ys 7, GND 8, OSD_R 9, GND 10, OSD_G 11, GND 12, OSD_B 13, GND 14, OSD_Y 15, GND 16, OSD_V 17, OSD_H 18, GND 19, CCD_SW 20

FFC CD102

CD805: 1 CVBS1, 2 GND, 3 CVBS2/Y, 4 GND, 5 SCALER_V_OUT, 6 PANEL_ON, 7 SCART/TEXT Ys, 8 GND, 9 OSD_R, 10 GND, 11 OSD_G, 12 GND, 13 OSD_B, 14 GND, 15 OSD_Y, 16 GND, 17 OSD_V, 18 OSD_H, 19 GND, 20 CCD_SW

CP104: OSD_CLK 1, GND 2

CD807: 1 OSD_CLK, 2 GND

LCD PCB
PCB340
TEDB66

L840

CD7705: AV2_V_IN 1, AV2_A_IN_L 2, AV2_A_IN_R 3, GND 4, SP MUTE 5, HEAD PHONE L+ 6, 5V 7, HEAD PHONE R+ 8

CP705: 1 AV2_V_IN, 2 AV2_A_IN_L, 3 AV2_A_IN_R, 4 GND, 5 SP MUTE, 6 HEAD PHONE L+, 7 5V, 8 HEAD PHONE R+

SIDE JACK PCB
PCBD90
TEDB64

HEAD PHONE J1001 — YELLOW J790 — WHITE J791 — RED J792

L713

TU001: NC 1, NC 2, +B 3, NC 4, NC 5, BT 7, NC 8, IF OUT 9, SCL 10, SDA 11, AFT 12, AUDIO OUT 13, SIF OUT 14, +32V 15, NC 16, VIDO OUT 17

CP703: IIC_OFF, SDA, SCL, GND

L002

COMMAND TRANSMITTER TM101

REMOCON PCB
PCBDA0
TEDB65

OS2201: 3 B+, 2 GND, 1 Vout

CD2201: REMOCON OUT 1, GND 2, AT+5V 3, P.CON+5V 4, 5

CP2201: 1 REMOCON OUT, 2 GND, 3 AT+5V, 4 P.CON+5V, 5

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

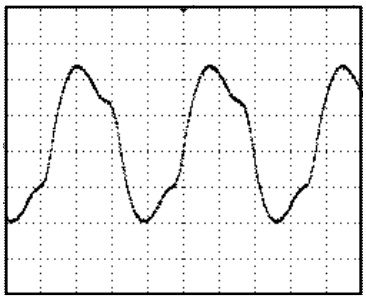
ATTENTION: LES PIECES REPAREES PAR UN ⚠ ETANT DANGEREUSES AN POINT DE VUE SECURITE N'UTILISER QUE CELLS DECRITES DANS LA NOMENCLATURE DES PIECES。

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

WAVEFORMS

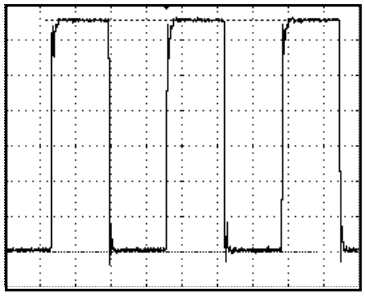
MPEG/MICON/DSP

10ns
1.0V



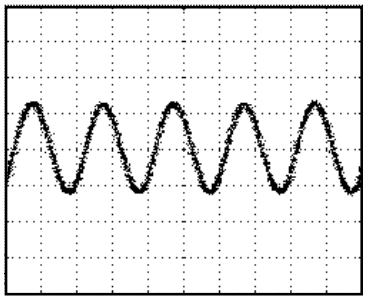
①

200ns
500mV



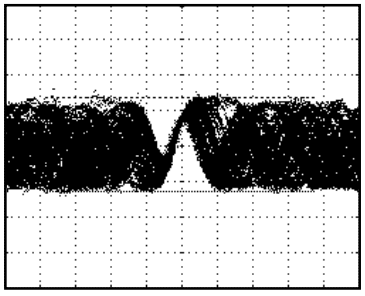
②

200µs
500mV



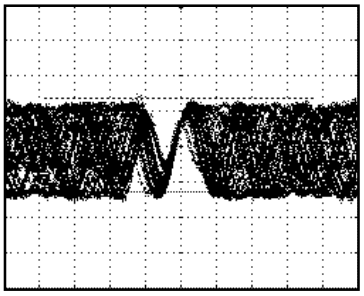
③

200ns
200mV



④

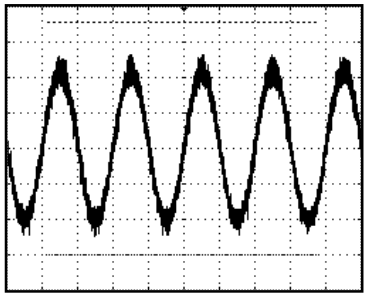
200ns
200mV



⑤

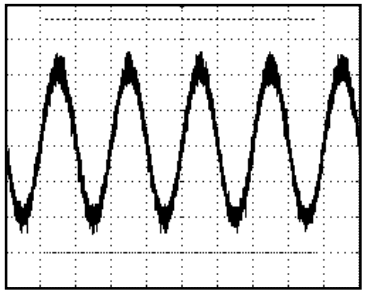
AUDIO/VIDEO

500µs
500mV



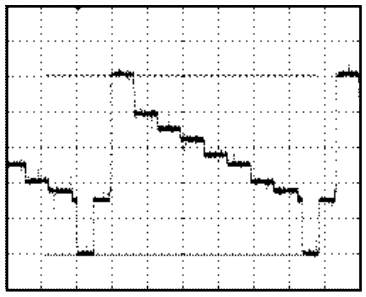
⑥

500µs
500mV



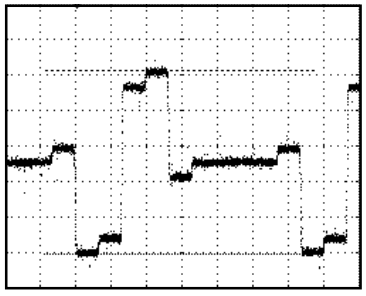
⑦

10µs
200mV



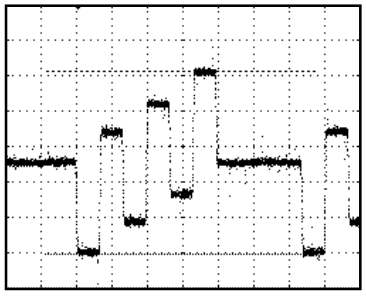
⑧

10µs
100mV



⑨

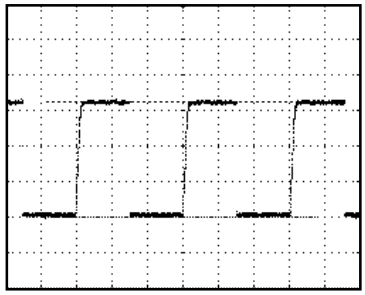
10µs
100mV



⑩

MOTOR DRIVE

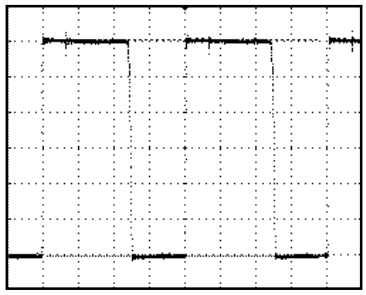
2ms
1.0V



⑪

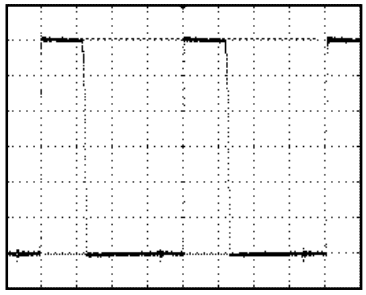
REGULATOR 2

2µs
2.0V



⑫

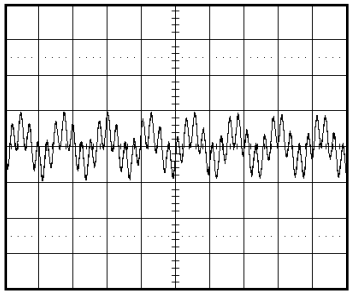
2µs
2.0V



⑬

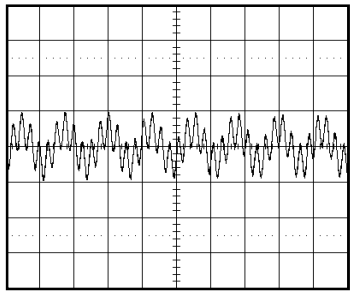
TUNER/STEREO

2ms
0.5V



⑭

2ms
0.5V



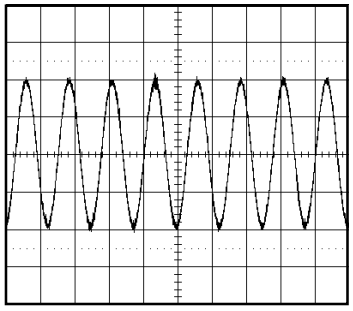
⑮

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

WAVEFORMS

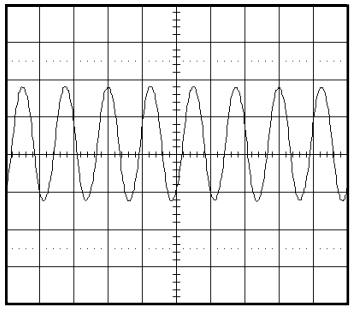
2ms
200mV

⑯



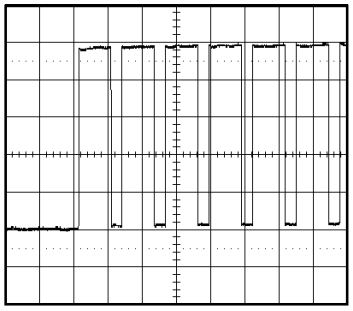
50ns
1.0V

㉑



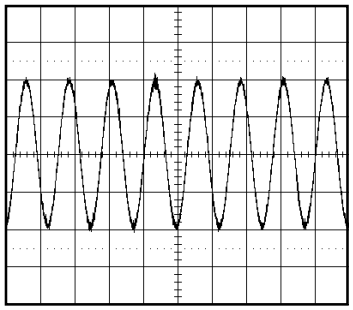
50µs
1.0V

㉖



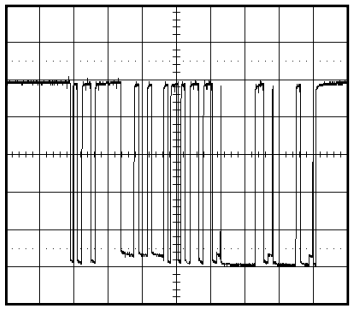
2ms
200mV

⑰



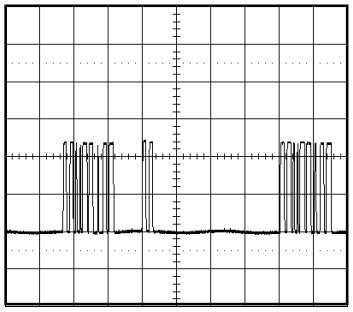
0.5ms
1.0V

㉒



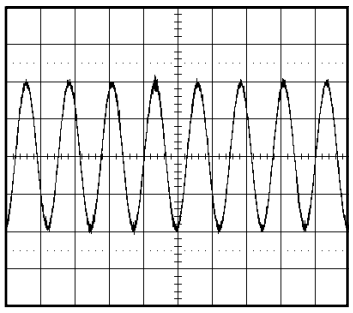
10µs
1.0V

㉗



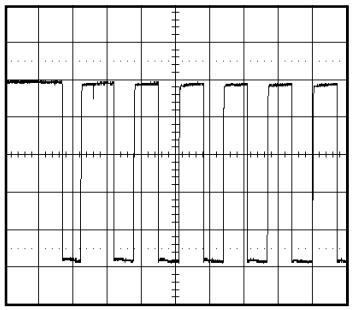
2ms
200mV

⑱



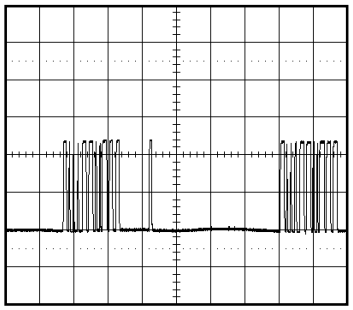
50µs
1.0V

㉓



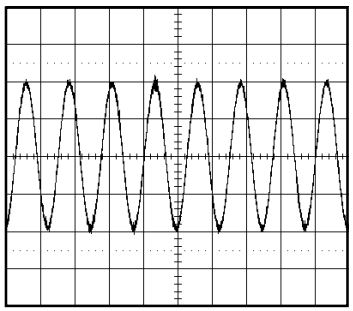
10µs
1.0V

㉘



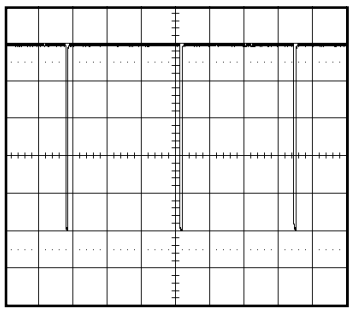
2ms
200mV

⑲



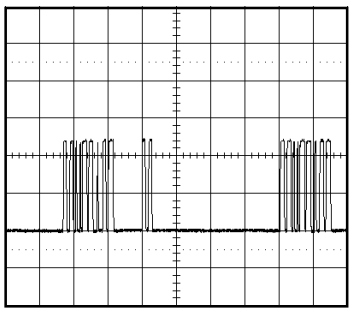
5ms
1.0V

㉔



10µs
1.0V

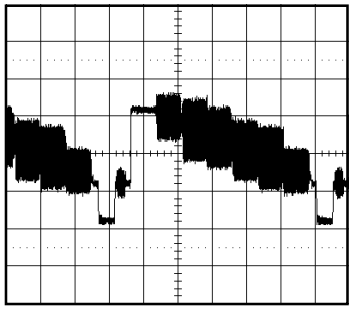
㉙



MICON

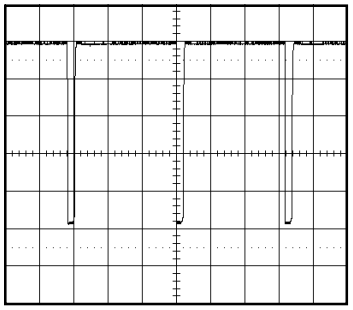
10µs
0.5V

⑳



20µs
1.0V

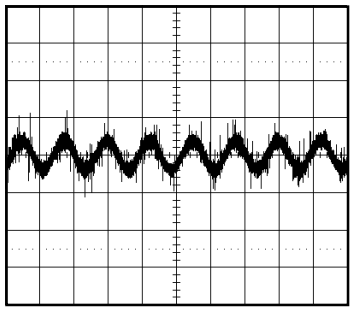
㉕



SOUND AMP

2ms
50mV

㉚



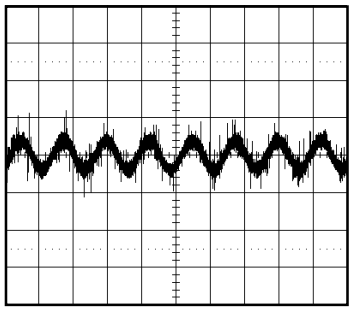
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

DECODER

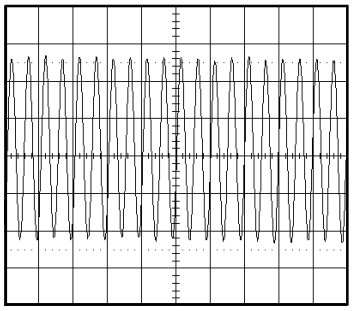
2ms
50mV

(31)



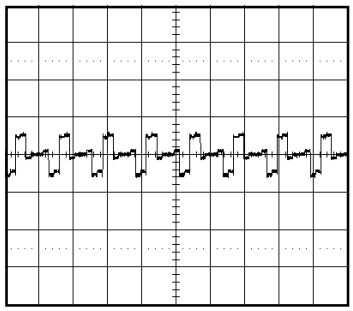
0.1µs
100mV

(36)



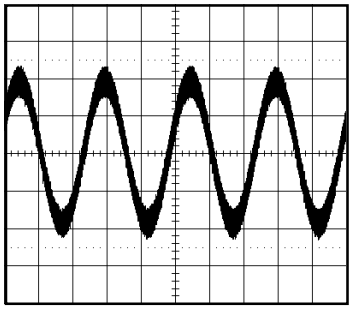
50µs
0.5V

(41)



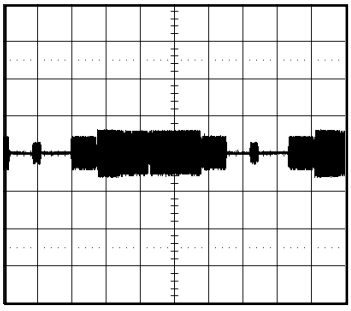
1ms
200mV

(32)



10µs
0.5V

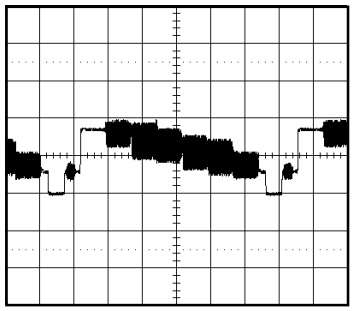
(37)



TUNER/STEREO

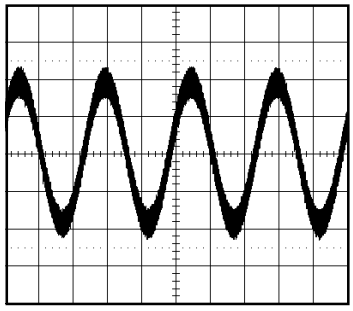
10µs
0.5V

(42)



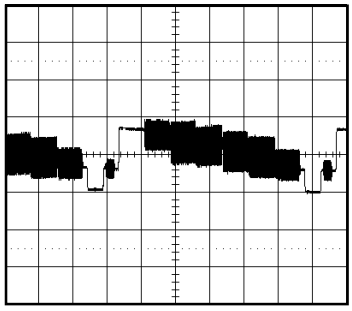
1ms
200mV

(33)



10µs
0.5V

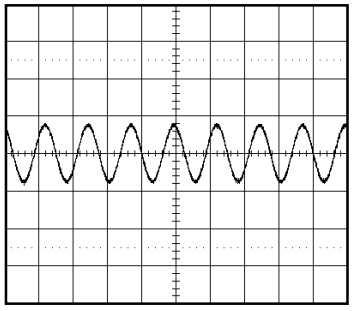
(38)



IN/OUT

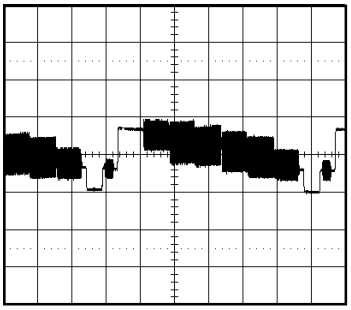
2ms
0.5V

(34)



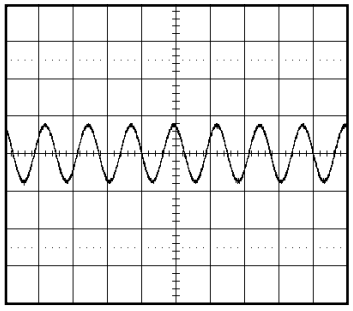
10µs
0.5V

(39)



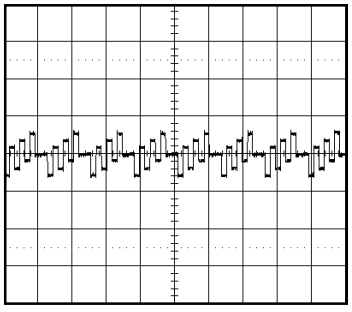
2ms
0.5V

(35)



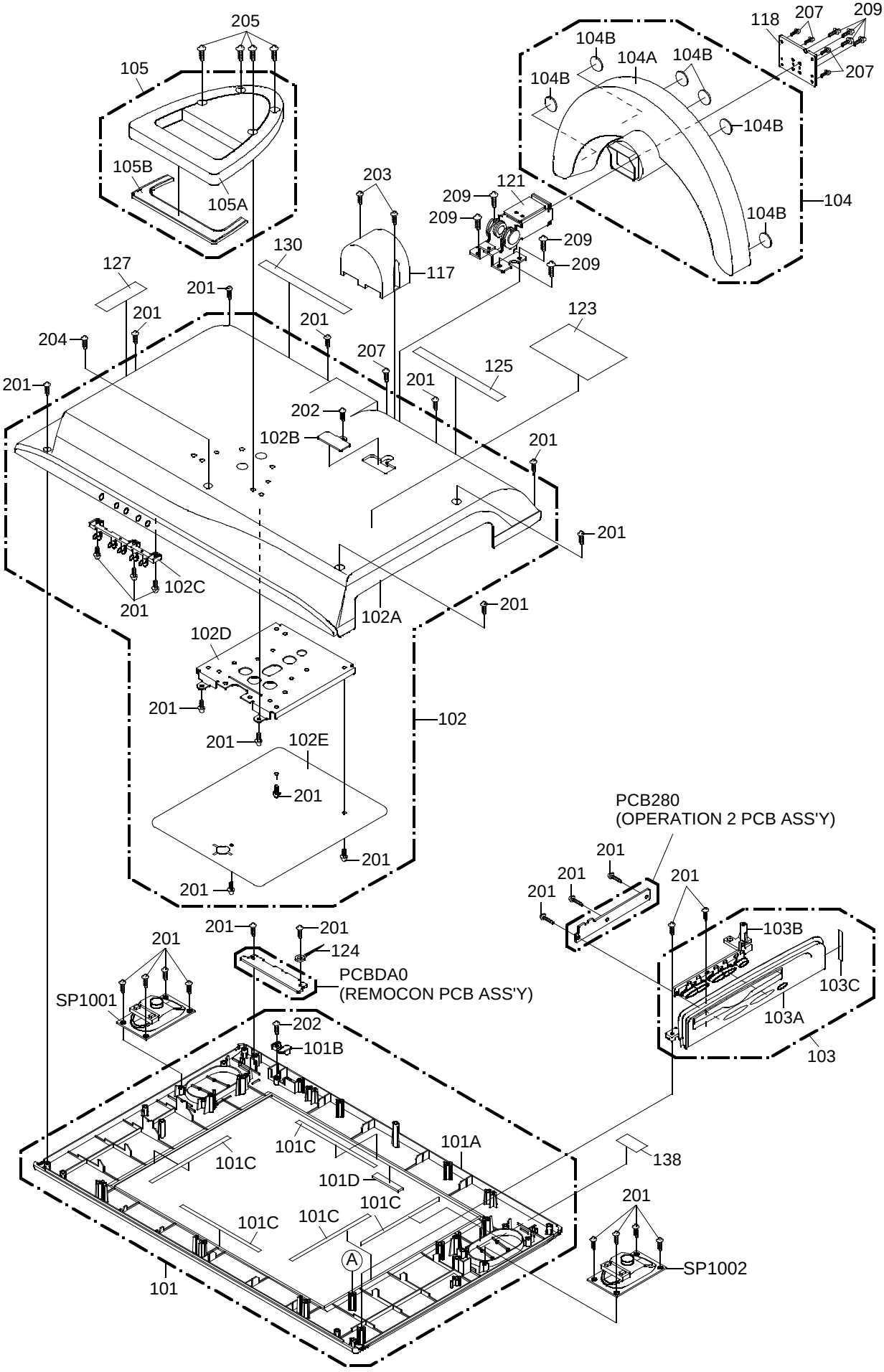
50µs
0.5V

(40)

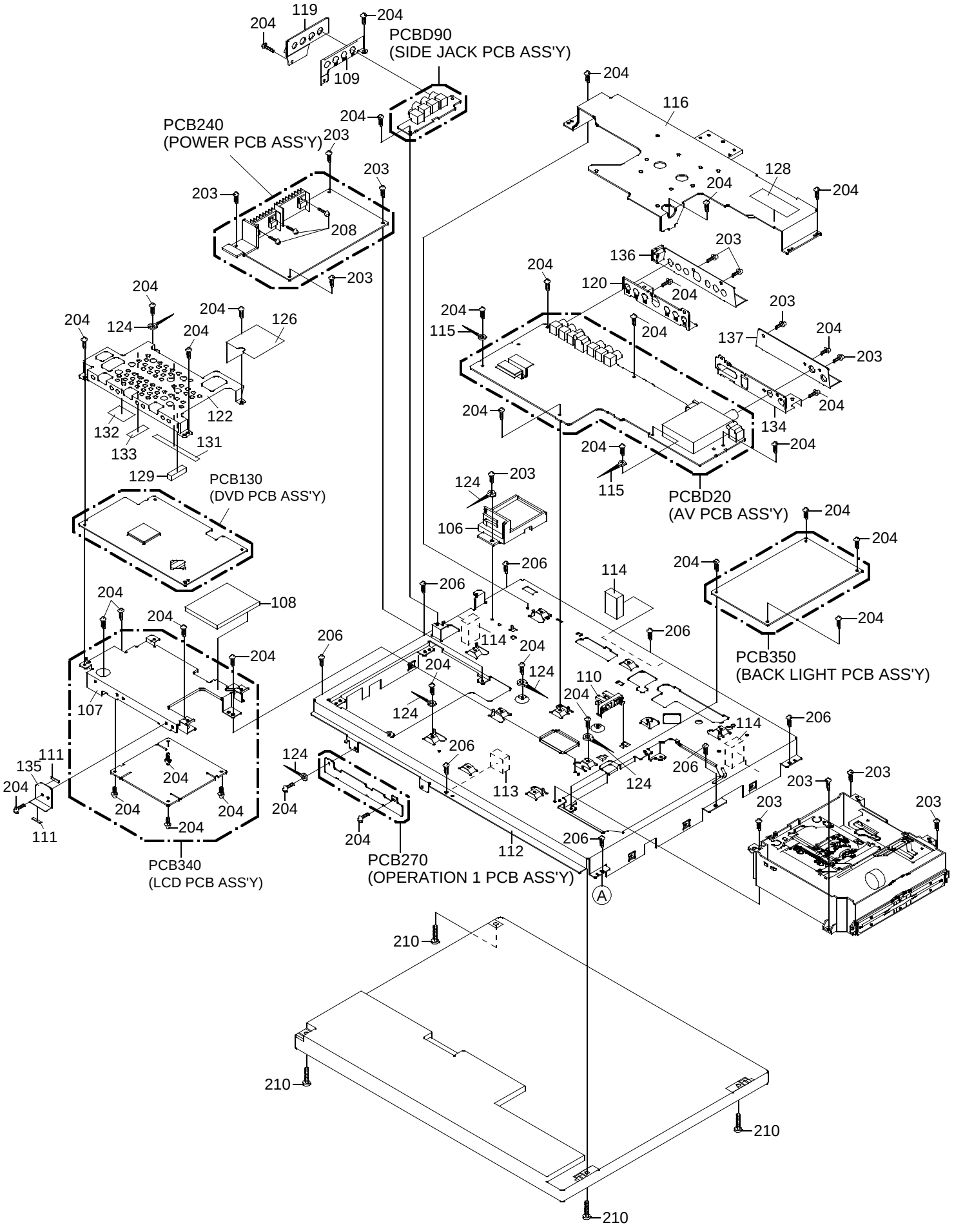


NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

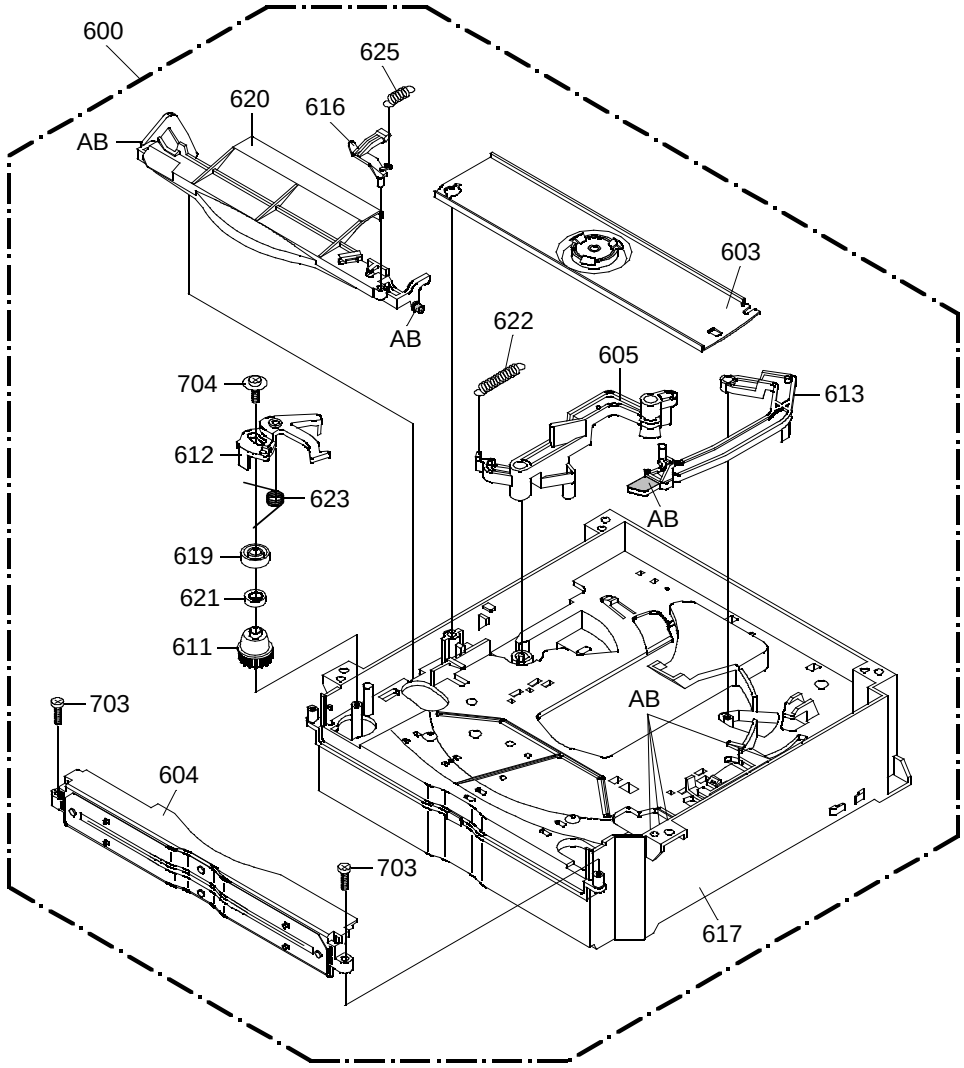
MECHANICAL EXPLODED VIEW



MECHANICAL EXPLODED VIEW



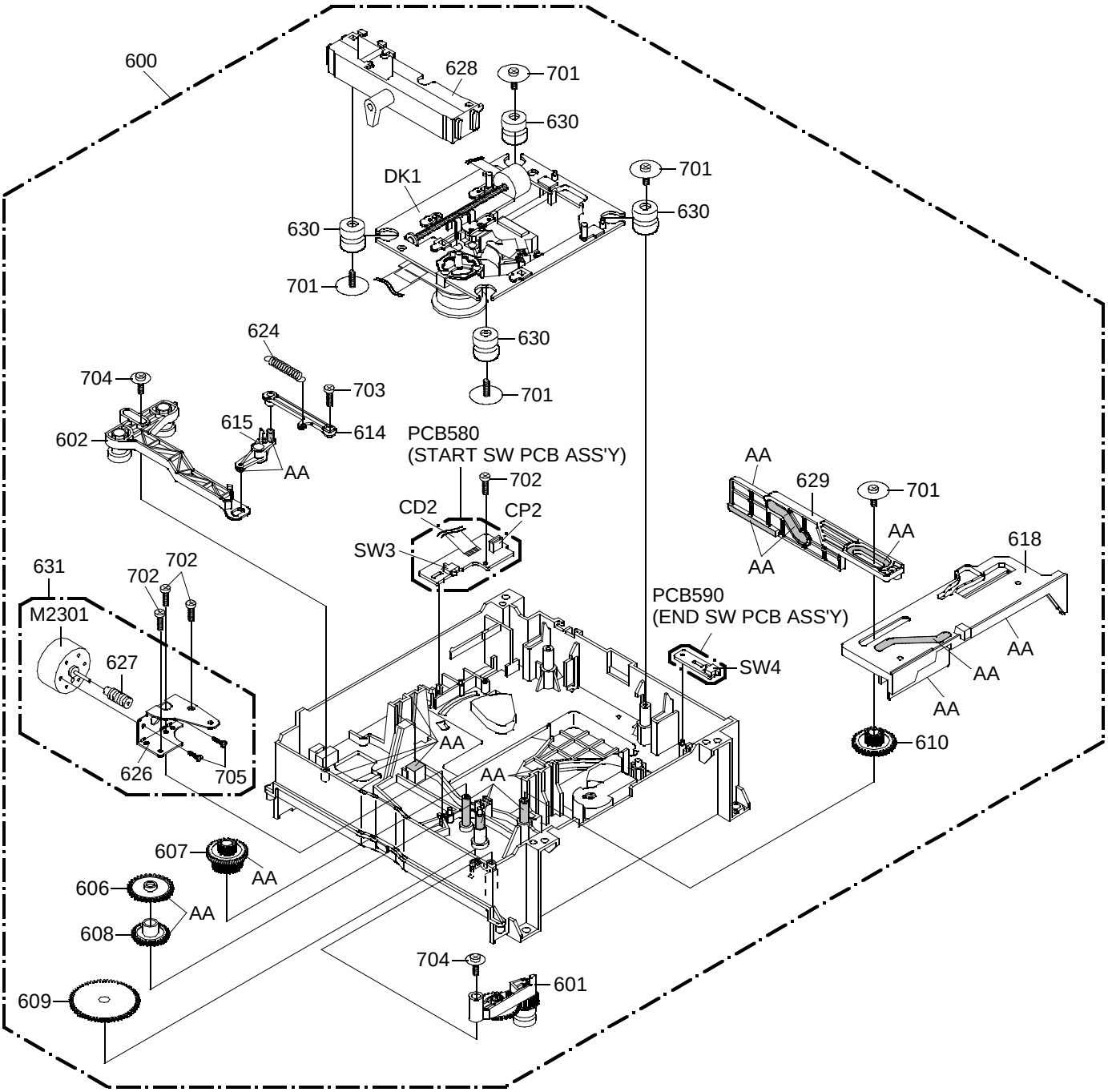
DVD DECK EXPLODED VIEW (TOP VIEW)



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315061000	G-555G	AA
	Y315121000	SF-112	AB

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

DVD DECK EXPLODED VIEW (BOTTOM VIEW)



CLASS	PART NO.	PART NAME	MARK
GREASE	Y315061000	G-555G	AA
	Y315121000	SF-112	AB

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

MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION		
101	7A701A466A	FRONT,CABI ASS'Y		201	8110630A0U	SCREW,TAP TITE(P)	BRAZIER	3x10
101A	701WPJD066	CABINET,FRONT		202	811063080U	SCREW,TAP TITE(P)	BRAZIER	3x8
101B	713WPA0291	GLASS,LED		203	8109230A0U	SCREW,TAP TITE(B)	BIND	3x10
101C	800WQ0A008	FELT,SHEET	150x5 T=0.3	204	810763060U	SCREW,TAP TITE(S)	BRAZIER	3x6
101D	711WPCA018	BADGE,BRAND		205	8102240A0U	SCREW,BIND		M4x10
				206	8117540A0U	SCREW,TAP TITE(B0)	TRUSS	4x10
102	7A7020017A	REAR,CABI ASS'Y		207	8110230A4U	SCREW,TAP TITE(P)	BIND	3x14
102A	702WPJ0029	CABINET,BACK		208	8109I30A0U	SCREW,TAP TITE(B)	WH7	3x10
102B	706WPB0001	COVER,CONECTOR		209	810A140A0U	SCREW,WASHER(A)		M4x10
102C	738WPB0013	BUTTON,FRAME						
102D	761WSAA029	ANGLE,HANDLE		210	8102230A6U	SCREW,BIND		M3x16
102E	7230007842	SHEET,LUMIRROR						
				---	7250000593	SHEET,ORIGIN		
103	7A7110002B	PANEL,SIDE ASS'Y		---	791WHAA122	FILM,BAG		
103A	711WPJ0068	PANEL,SIDE		---	792WHAA158	PACKAGE,PAD		
103B	735WPJ0241	BUTTON,FRAME		---	792WHAA161	PACKAGE,BOTTOM		
103C	800WQ0A111	FELT,SHEET	5x40 T=0.5	---	792WHAA162	PACKAGE,TOP		
				---	793WCDC773	GIFT BOX		
104	7A7040001A	STAND ASS'Y		---	795WCDA028	PAD 530x278		
104A	704WPB0001	STAND		---	795WCDA029	PAD 350x278		
104B	800WFA0061	CUSHION,LEG		---	A5N106A975	INSTRUCTION BOOK KIT		
				---	J5N10602A	WARRANTY SHEET		
105	7A7050002A	HANDLE ASS'Y		---	J5N10621A	INSTRUCTION BOOK(E/S)		
105A	705WPB0018	HANDLE 1		---	J5N10699A	INFORMATION SHEET		
105B	705WPB0019	HANDLE 2		---	JB5ND300	POLYBAG,INSTRUCTION(RED CAUTION)		
106	701WPB0205	HOLDER,AC-CORD						
107	761WSA0214	ANGLE,PCB						
108	800WF00059	CUSHION						
109	752WSA0350	SHIELD,JACK						
110	774WPA0002	HOLDER,WIRE						
111	8965TS0415	CUSHION 65TS4-2	(15x50x16)					
112	761WSA0201	COVER,LCD ASS'Y						
113	8965TS2020	CUSHION 65TS10.5-20	(20x15x12)					
114	8965TS3020	CUSHION 65TS10-30	(20x20x12)					
115	899EFBA002	WIRING-CLIP						
116	761WSA0211	ANGLE,BACK						
117	702WPB0044	COVER,HINGE						
118	761WSA0156	ANGLE,STAND ASS'Y						
119	771WPB0011	PLATE,JACK SIDE						
120	752WSA0420	SHIELD,JACK						
121	706JSA0008	HINGE,ASS'Y						
122	752WSA0424	SHIELD,DVD						
123	722A34A059	SHEET,RATING						
124	8995034000	CORD CLIP UL CO.						
125	7230007804	SHEET,JACK(TUNER)						
126	752WSA0438	SHIELD,FFC						
127	7230007719	SHEET,JACK						
128	726000A073	SHEET,CAUTION						
129	8965TS1017	CUSHION 65TS10-10	(17.5x20x14)					
130	7230007854	SHEET,JACK(AUDIO)						
131	7250000590	SHEET,PC 1						
132	7250000591	SHEET,PC 2						
133	7250000592	SHEET,PC 3						
134	752WSA0453	SHIELD,JACK(TUNER)						
135	763WSA0042	SHIELD,MPEG						
136	771WPB0021	PLATE,JACK						
137	771WPB0040	PLATE,JACK(TUNER)						
138	7230007882	SHEET,DTS(S)						

DVD DECK REPLACEMENT PARTS LIST

REF.	PART NO.	DESCRIPTION	
⚠ 600	A5N005C650S	DVD MECHA ASS'Y	A5N005C650S
601	92AAA0015A	ARM ROLLER ASS'Y 2	
602	92AAA0006A	LINK,R ASS'Y	
603	92AAA0007A	CLAMPER ASS'Y	
604	92AAA0009A	MOUTH ASS'Y	
605	92P100041A	ARM, DISC GUIDE	
606	92P100044A	GEAR, MID RACK	
607	92P100045A	GEAR, TERMINAL	
608	92P100046A	GEAR, MID ROLLER 1	
609	92P100047A	GEAR, MID ROLLER 2	
610	92P100049A	GEAR, RACK	
611	92P100050A	GEAR, ROLLER	
612	92P100052A	LEVER, DISC L	
613	92P100053A	LEVER, DISC R	
614	92P100054A	LINK, L	
615	92P100055A	LINK, MID	
616	92P100057A	LOCKER, STOPPER	
617	92P100058A	CHASSIS, MAIN CUT	
618	92P100060A	RACK, LOADING	
619	92P100062A	ROLLER, UPPER	
620	92P100064A	STOPPER, DISC	
621	92P200011A	RUBBER,ROLLER	
622	92P300010A	SPRING,GUIDE ARM	
623	92P300011A	SPRING,LEVER DISC L	
624	92P300012A	SPRING,LINK	
625	92P300013A	SPRING,STOPPER	
626	92P000006A	BRACKET, LOADING MOTOR	
627	92P100066A	WORM, LOADING	
628	92P100051A	HOLDER, TRAVERSE UNIT	
629	92P100061A	ROD, TRAVERSE UNIT	
630	92P200010A	INSULATOR	
631	A5N005C600	LOADING MOTOR ASS'Y	
701	8110E2680U	SCREW,TAP TITE(P) WH10	M2.6x8
702	810922060U	SCREW,TAP TITE(B) BIND	2x6
703	810922040U	SCREW,TAP TITE(B) BIND	2x4
704	8109I2060U	SCREW,TAP TITE(B) WH7	2x6
705	810211718U	SCREW,PAN	M1.7x1.8
CD2	122H092401	CORD JUMPER	2H092401
CP2	069EV4T060	CONNECTOR PCB SIDE 04_	6232_104_015_800+
DK1	169Z00035A	DECK CD	CV-VTM101D
⚠ M2301	1596998002	MOTOR	MDN3BT3ESA
PCB580	A5N005C580	PCB	DED023A
PCB590	A5N005C590	PCB	DED024A
SW3	0500101036	PUSH SWITCH	ESE22MH22
SW4	0500101037	PUSH SWITCH	ESE22MH24

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		RESISTORS	
⚠ R1050	R3X28B2R7J	R,METAL OXIDE	2.7 OHM 3W
⚠ R1053	R3X28B1R8J	R,METAL OXIDE	1.8 OHM 3W
⚠ R3601	R002T2155J	RC	1.5M OHM 1/2W
⚠ R3602	R0G3K2275K	RC	2.7M OHM 1/2W
⚠ R3605	R63581R22J	R,FUSE	0.22 OHM 1W
⚠ R3606	R3X28A104J	R,METAL OXIDE	100K OHM 2W
⚠ R3608	R3X181R15J	R,METAL OXIDE	0.15 OHM 1W
		CAPACITORS	
⚠ C105	E02LU4101M	CE	100 UF 35V
⚠ C119	E02LU4101M	CE	100 UF 35V
⚠ C3601	P2122B224M	CMP	0.22 UF 275V ECQUL
C3602	CD39E0ML3M	CC	0.0033UF 250V
C3603	C0JBB0713K	CC	0.001 UF 2KV B
C3604	C0JBB0713K	CC	0.001 UF 2KV B
⚠ C3607	E02YFC101M	CE	100 UF 200V
⚠ C3608	E62NFC221M	CE	220 UF 200V
⚠ C3614	E02LU2221M	CE	220 UF 16V
⚠ C3615	E62FF2222M	CE	2200 UF 16V
⚠ C3616	E62FF2222M	CE	2200 UF 16V
⚠ C3617	E02LU2221M	CE	220 UF 16V
C3620	CD39E0ME3M	CC	0.0015UF 250V
⚠ C3626	P2122B104M	CMP	0.1 UF 275V ECQUL
C3627	P411F4104J	CMPP	0.1 UF 400V ECWF
		DIODES	
D101	D1VT001330	DIODE,SILICON	1SS133T-77
D102	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D103	DDDRL41480	DIODE SILICON	MCL4148
D104	D1VT001330	DIODE,SILICON	1SS133T-77
D701	D1VT001330	DIODE,SILICON	1SS133T-77
D801	DDDRL41480	DIODE SILICON	MCL4148
D1001	D1VT001330	DIODE,SILICON	1SS133T-77
D1002	D28T21DQN9	DIODE SCHOTTKY	21DQ09N-TA2B1
D2202	0021E2Q140	LED	LTL-1CHEE-002A
D2601	DDARDS1200	DIODE SILICON	KDS120RTK
D2602	DE5RB2R21X	DIODE ZENER	02DZ2.2-X(TH3ORION
D3001	D28R1QS040	DIODE	EC31QS04-TE12L
D3002	D28R03A040	DIODE SCHOTTKY	NSQ03A04-TE16L
D3003	D28R1QS040	DIODE	EC31QS04-TE12L
⚠ D3603	D4ZZ4SB800	DIODE,BRIDGE	D4SB80
D3604	D2BXARS010	DIODE SILICON	SARS01-V1
⚠ D3606	D23A0010J0	DIODE SCHOTTKY	SBR100-10J-CBC11
⚠ D3607	D23A0010J0	DIODE SCHOTTKY	SBR100-10J-CBC11
D3611	D28T0ERB20	DIODE RECTIFIER	10ERB20-TA1B2
D3612	D28T0ERB20	DIODE RECTIFIER	10ERB20-TA1B2
D3613	D97U01801B	DIODE,ZENER	MTZJ18B T-77
D3614	D28T0EDB10	DIODE SILICON	10EDB10-TA1B2
D3618	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D3801	D1VT001330	DIODE,SILICON	1SS133T-77
D3802	D28T21DQN4	DIODE SCHOTTKY	21DQ04N-TA2B1
D3804	D97U06R81B	DIODE,ZENER	MTZJ6.8B T-77
D3805	D28T0ERB20	DIODE RECTIFIER	10ERB20-TA1B2
D3806	D97U05R61B	DIODE,ZENER	MTZJ5.6B T-77
D3807	D1VT001330	DIODE,SILICON	1SS133T-77
D3808	D28TQS04N0	DIODE SCHOTTKY	11EQS04N-TA1B2
D4002	DDDRL41480	DIODE SILICON	MCL4148
D7001	DD7R002220	DIODE,SILICON	DAN222_TL
D7002	DD7R002220	DIODE,SILICON	DAN222_TL
D7003	DD7RN217U0	DIODE SILICON	DAN217UT106
D7004	DD7R002220	DIODE,SILICON	DAN222_TL
D7005	DD7R002220	DIODE,SILICON	DAN222_TL
D7006	DDDRL41480	DIODE SILICON	MCL4148
D7007	DDDRL41480	DIODE SILICON	MCL4148
D7008	DD7RN217U0	DIODE SILICON	DAN217UT106
D7009	DDDRL41480	DIODE SILICON	MCL4148
D7010	DDDRL41480	DIODE SILICON	MCL4148
D7011	DDDRL41480	DIODE SILICON	MCL4148
D7012	DDDRL41480	DIODE SILICON	MCL4148
D7013	DDDRL41480	DIODE SILICON	MCL4148
D7014	DDDRL41480	DIODE SILICON	MCL4148
D7015	DDDRL41480	DIODE SILICON	MCL4148
D7016	DDDRL41480	DIODE SILICON	MCL4148
D8508	DDDRL41480	DIODE SILICON	MCL4148
D8509	DDDRL41480	DIODE SILICON	MCL4148
D8510	DDDRL41480	DIODE SILICON	MCL4148
		ICS	
IC101	I55D06080B	IC	OEC6080B
IC103	I9UF032450	IC	PST3245NR

REF. NO.	PART NO.	DESCRIPTION		
		ICS		
IC199	A5N103AD25	INIT DATA	S-24C08AFJA-TB-0	or
	ICRJ008AN0	IC	AT24C08AN-10SI-2.	
IC601	I0UF015040	IC	MM1504XNRE	
IC701	I0QJ045800	IC	NJM4580M(TE1)	
IC702	I0QF02534V	IC	NJM2534V(TE2)	
IC703	I0UF015010	IC	MM1501XNRE	
IC704	I0QF025840	IC	NJM2584AM(TE1)	
IC801	I55M002880	IC	TC90288XBG	
⚠ IC802	I1KF98D330	IC	KIA78D33F	
⚠ IC804	I0GF91ZPH0	IC	PQ070XZ01ZPH	
⚠ IC805	I0GF91ZPH0	IC	PQ070XZ01ZPH	
⚠ IC806	I1KF98D330	IC	KIA78D33F	
IC807	I9UF032290	IC	PST3229NR	
IC901	I01FF58320	IC	AN5832SA-E1V	
IC903	I0UF015010	IC	MM1501XNRE	
IC904	I0UF015010	IC	MM1501XNRE	
IC905	I0QF02534V	IC	NJM2534V(TE2)	
IC906	I0QF02534V	IC	NJM2534V(TE2)	
IC1001	I01FF58910	IC	AN5891SA-E1V	
⚠ IC1002	I03DP49150	IC	LA4915-E	
IC1004	I0QF0580V0	IC	NJM4580V(TE1)	
IC2301	I06F030180	IC	M63018FP	
IC2304	I07E00358F	IC	BA10358F-E2	
IC2601	ICQK067070	IC	ZR36707TQC	
⚠ IC3001	I07F097430	IC	BA9743AFV-E2	
⚠ IC3002	I0GF91ZPH0	IC	PQ070XZ01ZPH	
⚠ IC3003	I1KF98D050	IC	KIA78D05F	
⚠ IC3602	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)	
⚠ IC3603	I2FT0QS010	IC	ICE1QS01	
IC3801	I1LF010100	IC	AL1010	
⚠ IC3803	I1KF98D050	IC	KIA78D05F	
⚠ IC3804	I1KF98R090	IC	KIA78R09F	
IC3805	I03D979950	IC	LA7995M-TLM	
IC4001	ICQK06762V	IC	ZR36762PQCG_V	
IC4002	I5HJ004BF0	IC	S-24C04BFJ-TB	
IC4005	IF3J00HGT7	IC	HY57V641620HGT-7	or
	IFQJ0A6BE6	IC	EDS6416AHTA-6B-E	
IC4007	ICMJ0CEKE8	IC	SST39VF800A-70-4C-EKE	
IC7002	I1GF0TH120	IC	TH12A	
IC8502	I17F017530	IC	PCM1753DBQR	
		TRANSISTORS		
Q101	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q105	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q601	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q602	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q603	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q604	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q701	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q702	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q703	TNYJC05001	COMPOUND TRANSISTOR	DTC124EKAT146	
Q704	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK	
Q707	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q708	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q709	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q710	TPYJA05001	COMPOUND TRANSISTOR	DTA143EKAT146	
Q711	TNYJD05001	COMPOUND TRANSISTOR	DTC144EKAT146	
Q1001	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q1002	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q1003	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q1005	TAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK	
Q1006	TPYJA05001	COMPOUND TRANSISTOR	DTA143EKAT146	
Q1007	T93A018020	TRANSISTOR SILICON	2SD1802S/T-TL-E	
Q1008	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q2601	T67J1036K0	TRANSISTOR SILICON	2SA1036KT146	
Q2602	T67J048TL0	TRANSISTOR SILICON	2SA2048TL	
Q2603	T27T030180	FET	2SK3018T106	
Q2604	T27T030180	FET	2SK3018T106	
Q2605	T27T030180	FET	2SK3018T106	
Q2606	TNYJC05001	COMPOUND TRANSISTOR	DTC124EKAT146	or
	TNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK	
Q2607	TAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK	
Q2608	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q3001	T77J011320	TRANSISTOR SILICON	2SB1132T100(Q,R)	
Q3002	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
Q3003	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	
Q3004	TAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK	
Q3005	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
TRANSISTORS			
Q3006	TAAA1504SY	TRANSISTOR SILICON	KTA1504S_Y_RTK
⚠ Q3007	TJ5M081090	FET	TPC8109(T2LORION_Q)
⚠ Q3008	TJ5M081090	FET	TPC8109(T2LORION_Q)
⚠ Q3601	T250035680	FET	2SK3568(ORION_Q)
Q3602	TCATC31980	TRANSISTOR,SILICON	KTC3198-AT(Y,GR)
Q3801	TS3M000044	COMPOUND TRANSISTOR	CPH6312-TL-E
Q3802	TNYJC05001	COMPOUND TRANSISTOR	DTC124EKAT146
Q3803	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146
Q3804	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3805	TPYJD05001	COMPOUND TRANSISTOR	DTA144EKAT146
Q3806	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q3807	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
Q7001	TJ7T02N060	FET	RHU002N06_T106
Q7003	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7004	TJ7T02N060	FET	RHU002N06_T106
Q7006	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7007	T67J1036K0	TRANSISTOR SILICON	2SA1036KT146
Q7008	TJ7T02N060	FET	RHU002N06_T106
Q7009	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7010	TJ7T02N060	FET	RHU002N06_T106
Q7011	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7012	T67J1036K0	TRANSISTOR SILICON	2SA1036KT146
Q7013	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7014	T87J2411K0	TRANSISTOR SILICON	2SC2411K_Q,RT146
Q7015	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7016	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7017	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7018	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7019	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7020	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7021	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q7022	TS3M000041	COMPOUND TRANSISTOR	FSS262-TL
Q8507	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
COILS &TRANSFORMERS			
L001	021673101J	COIL	100 UH
L002	02A6A990W1	CORE FERRITE	ZCAT2032-0930
L004	02167F101J	COIL	100 UH
L101	02167F470J	COIL	47 UH
L102	02167F470J	COIL	47 UH
L602	0216SD1R5J	COIL	1.5 UH
L603	0216S8101K	COIL	100 UH
L604	0216S4220J	COIL	22 UH
L608	0216SDR56J	COIL	0.56 UH
L609	0216SD1R5J	COIL	1.5 UH
L701	02167F470J	COIL	47 UH
L703	02167F101J	COIL	100 UH
L713	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
L817	0216S8220K	COIL	22 UH
L819	0216S8220K	COIL	22 UH
L821	0216S8220K	COIL	22 UH
L840	02AHB0A0A4	CORE FERRITE	W5T_20X10X10A
L901	02167F101J	COIL	100 UH
L904	0216A6470K	COIL	47 UH
L905	02167F470J	COIL	47 UH
L1001	02167F101J	COIL	100 UH
L1003	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
L1004	021404221M	COIL	220 UH
L3001	021404101L	COIL	100 UH
L3002	021404101L	COIL	100 UH
L3003	02167F2R2J	COIL	2.2 UH
L3004	02167E220K	COIL	22 UH
⚠ L3601	029X000416	COIL,LINE FILTER	SS24H-10100
⚠ L3602	029X000416	COIL,LINE FILTER	SS24H-10100
L3603	02167E100K	COIL	10 UH
L3604	02167E100K	COIL	10 UH
L3605	02167E100K	COIL	10 UH
L3606	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
L3607	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
L3801	021404150M	COIL	15 UH
L3803	02167E220K	COIL	22 UH
L4001	0216SD1R5J	COIL	1.5 UH
L7001	02DN000065	COIL CHOKE	CRT-026
L7002	02DN000065	COIL CHOKE	CRT-026
L7003	02DN000065	COIL CHOKE	CRT-026
L7004	02DN000065	COIL CHOKE	CRT-026
L7005	02DN000065	COIL CHOKE	CRT-026
L7006	02DN000065	COIL CHOKE	CRT-026

REF. NO.	PART NO.	DESCRIPTION	
COILS &TRANSFORMERS			
L7007	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
L8502	02167F1R0K	COIL	1 UH
L8503	02167F1R0K	COIL	1 UH
L8504	02167F1R0K	COIL	1 UH
⚠ T3601	048134001S	TRANSFORMER,SWITCHING	8134001S
T7001	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7002	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7003	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7004	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7005	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7006	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7007	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7008	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7009	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7010	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7011	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7012	048110001H	TRANSFORMER,SWITCHING	CRT-024
⚠ T7013	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
⚠ T7014	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
⚠ T7015	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
⚠ T7016	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
⚠ T7017	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
⚠ T7018	045532002H	TRANSFORMER,SWITCHING	AV-HB253T
T7019	048508001H	TRANSFORMER,SWITCHING	CRT-029
JACKS			
J701	060J401102	RCA JACK	MSP-251V-05NI-FE-LF
J702	060J421036	RCA JACK	MTJ-032-05A-30-FE
J703	060J421037	RCA JACK	MTJ-032-05A-32-FE
J704	060J421030	RCA JACK	MTJ-032-05A-31-FE
J705	060J421030	RCA JACK	MTJ-032-05A-31-FE
J706	063D700009	JACK	MDC-070V-A_LF
J707	060G421033	RCA JACK	HTJ-032-05AS
J708	060G421034	RCA JACK	HTJ-032-05AG
J790	060J421036	RCA JACK	MTJ-032-05A-30-FE
J791	060J421037	RCA JACK	MTJ-032-05A-32-FE
J792	060J421030	RCA JACK	MTJ-032-05A-31-FE
⚠ J1001	0602131008	HEADPHONE JACK	HSJ0913-01-140
SWITCHES			
SW2202	0504101T34	SWITCH,TACT	EVQ21505R
SW2204	0504101T34	SWITCH,TACT	EVQ21505R
SW2206	0504101T34	SWITCH,TACT	EVQ21505R
SW2208	0504101T34	SWITCH,TACT	EVQ21505R
SW2209	0504101T34	SWITCH,TACT	EVQ21505R
SW2251	0504101T34	SWITCH,TACT	EVQ21505R
SW2252	0504101T34	SWITCH,TACT	EVQ21505R
SW2253	0504101T34	SWITCH,TACT	EVQ21505R
SW2254	0504101T34	SWITCH,TACT	EVQ21505R
SW2255	0504101T34	SWITCH,TACT	EVQ21505R
P.C.BOARD ASSEMBLIES			
PCB130	A5N106A130	PCB ASS'Y	VMD327A
PCB240	A5N106A240	PCB ASS'Y	TEDB53B
PCB270	A5N106A270	PCB ASS'Y	TEDB63B
PCB280	A5N106A280	PCB ASS'Y	VEDA45A
PCB340	A5N106A340	PCB ASS'Y	TEDB66B
PCB350	A5N106A350	PCB ASS'Y	TEDB52A
PCBD20	A5N106AD20	PCB ASS'Y	TMD611B
PCBD90	A5N106AD90	PCB ASS'Y	TEDB64B
PCBDA0	A5N106ADA0	PCB ASS'Y	TEDB65B
MISCELLANEOUS			
B101	024HC36001	CORE,BEADS	HCB2012K-600T25
B701	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B702	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B802	024HC36001	CORE,BEADS	HCB2012K-600T25
B803	024HC36001	CORE,BEADS	HCB2012K-600T25
B2301	024HC31022	CORE,BEADS	FCM2012H-102T04
B2601	024HC31022	CORE,BEADS	FCM2012H-102T04
B2602	024HC31022	CORE,BEADS	FCM2012H-102T04
B2603	024HC31022	CORE,BEADS	FCM2012H-102T04
B2604	024HC31022	CORE,BEADS	FCM2012H-102T04
B2605	024HC31022	CORE,BEADS	FCM2012H-102T04
B3001	024HC31022	CORE,BEADS	FCM2012H-102T04
B3601	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2
B3602	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B3604	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B3801	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B3802	024HT03564	CORE,BEADS	W4BRH3.5X6X1.0
B3803	024HT03563	CORE,BEADS	W4BRH3.5X6X1.0X2

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
B3804	024HT03564	CORE,BEADS	W4BRH3.5X6X1.0
B3805	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B4001	024HC31022	CORE,BEADS	FCM2012H-102T04
B4002	024HC31022	CORE,BEADS	FCM2012H-102T04
B4003	024HC31022	CORE,BEADS	FCM2012H-102T04
B4004	024HC31022	CORE,BEADS	FCM2012H-102T04
B4005	024HC31022	CORE,BEADS	FCM2012H-102T04
B4006	024HC31022	CORE,BEADS	FCM2012H-102T04
B4007	024HC31022	CORE,BEADS	FCM2012H-102T04
B4008	024HC31022	CORE,BEADS	FCM2012H-102T04
B4009	024HC31022	CORE,BEADS	FCM2012H-102T04
B4010	024HC31022	CORE,BEADS	FCM2012H-102T04
B8503	024HC31022	CORE,BEADS	FCM2012H-102T04
BT001	1412004008	BATTERY,MANGAN	R03(AB)E_2P_G
BT002	1412004008	BATTERY,MANGAN	R03(AB)E_2P_G
CD001	06CPL13001	CABLE	CPL13001
CD101	06CU233501	CORD CONNECTOR	CU233501
CD102	122H0K2401	CORD JUMPER	2H0K2401
CD103	122H073601	CORD JUMPER	2H073601
⚠ CD501	06CU241401	CORD CONNECTOR	CU241401
CD503	06CUU34801	CORD CONNECTOR	CUU34801
CD701	06CU2G2202	CORD CONNECTOR	CU2G2202
CD705	06CU281601	CORD CONNECTOR	CU281601
CD802	12BH050201	CORD JUMPER	BH050201
CD804	06CU262501	CORD CONNECTOR	CU262501
CD807	06CU223002	CORD CONNECTOR	CU223002
CP101	069S230629	CONNECTOR PCB SIDE	A2001WV2-3P
CP102	069EVK3010	CONNECTOR PCB SIDE	00_6232_020_006_800
CP103	069EV73010	CONNECTOR PCB SIDE	00_6232_007_006_800
CP104	069S220629	CONNECTOR PCB SIDE	A2001WV2-2P
CP701	069S2G0629	CONNECTOR PCB SIDE	A2001WV2-16P
CP703	069S240629	CONNECTOR PCB SIDE	A2001WV2-4P
CP705	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
CP802	06AEY05011	CONNECTOR PCB SIDE	04_6240_050_003_800
CP805	069EVK3020	CONNECTOR PCB SIDE	00_6232_020_102_800
CP806	069EV73020	CONNECTOR PCB SIDE	00_6232_007_102_800
CD1001	06CU147801	CORD CONNECTOR	CU147801
CD2201	06CU251801	CORD CONNECTOR	CU251801
CD2251	06CU224501	CORD CONNECTOR	CU224501
CD2601	122H0O1902	CORD JUMPER	2H0O1902
⚠ CD3601	1209415911	CORD AC BUSH	9415911 or
	120R415907	CORD AC BUSH	0R415907
CD7001	06CU282601	CORD CONNECTOR	CU282601
CP1001	069S140419	CONNECTOR PCB SIDE	A2502WV2-4P
CP2201	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP2251	069S220639	CONNECTOR PCB SIDE	A2001WR2-2P
CP2301	069EV93010	CONNECTOR PCB SIDE	00_6232_009_006_800
CP2302	069EVC3010	CONNECTOR PCB SIDE	00_6232_012_006_800
CP2601	069GYOT119	CONNECTOR PCB SIDE	09-5000-024-001-001
CP3802	069SU30139	CONNECTOR PCB SIDE	A3963WV2-3P
⚠ CP3803	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
⚠ CP3804	069S240629	CONNECTOR PCB SIDE	A2001WV2-4P
CP3805	069S260629	CONNECTOR PCB SIDE	A2001WV2-6P
CP7001	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CP7002	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CP7003	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CP7004	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CP7005	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CP7006	0694J2T02A	CONNECTOR PCB SIDE	1565647-2
CUS911	800WFAA006	CUSHION A	
CUS912	800WFAA008	CUSHION C	
EL2401	124116281A	EYE LET	XRY16X28BD
EL2402	124120301A	EYE LET	XRY20X30BD
⚠ F3001	083LA05007	FUSE	1206FA5A-T
⚠ F3601	081PC6R305	FUSE	51MS063L
⚠ F7001	083LA04007	FUSE	1206FA4A-T
FH3601	06710T0009	HOLDER,FUSE	EYF-52BCY
FH3602	06710T0009	HOLDER,FUSE	EYF-52BCY
⚠ ICP3801	0835C05003	MICRO FUSE	20N_5000FS
NR807	110N4101M3	R,NETWORK	CAY16-101-J-4R
NR808	110N4101M3	R,NETWORK	CAY16-101-J-4R
NR809	110N4101M3	R,NETWORK	CAY16-101-J-4R
NR810	110N4101M3	R,NETWORK	CAY16-101-J-4R
NR811	110N4101M3	R,NETWORK	CAY16-101-J-4R
NR812	110N4101M3	R,NETWORK	CAY16-101-J-4R
OS2201	0773071006	REMOTE RECEIVER	RPM7138-SH8
⚠ SP1001	070C546009	SPEAKER	SG04H02CRA

REF. NO.	PART NO.	DESCRIPTION	
		MISCELLANEOUS	
⚠ SP1002	070C546009	SPEAKER	SG04H02CRA
TM101	076R0HE02B	TRANSMITTER	R56-0516
⚠ TU001	0162300045	RF UNIT	115-V-LA35AR
V2301	09EV120001	LCD	V201V1-T01
X101	1002T01606	CERAMIC OSCILLATOR	CSTLS16M0X53-A0
X601	100DT04201	CRYSTAL	SMD-49
X4001	100BT02701	CRYSTAL	HC-49U/S

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.	M5N1-06A
O/R NO.	W555001