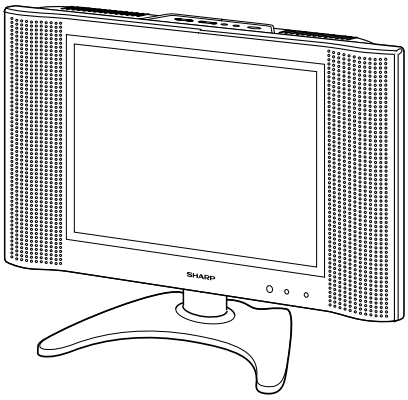
SHARP

SERVICE MANUAL

S63E4LC-13B4U



LCD COLOR TELEVISION

MODELS LC-13B4U-S LC-13B4U-B

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

CONTENTS

SHARP CORPORATION

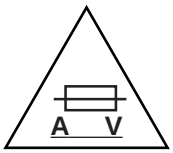
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.



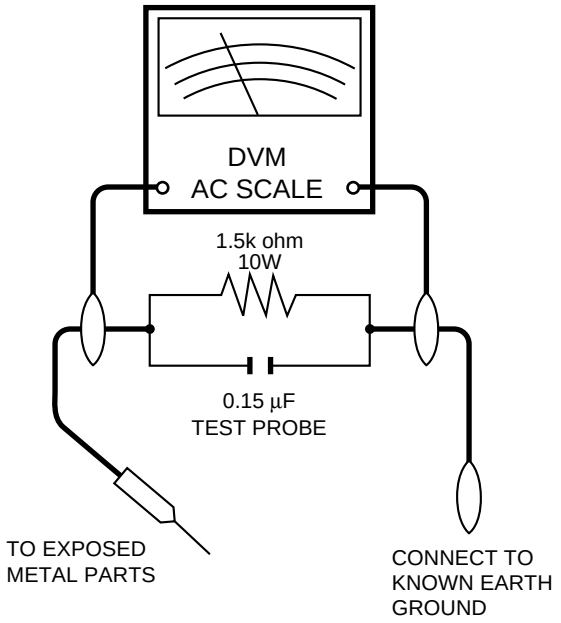
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F3701 (2.0A, 250V), F3702 (1.25A, 250V), F6500 (1.25A, 250V) AND F6501 (1.25A, 250V) FUSE.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 0.75V peak (this corresponds to 0.5 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

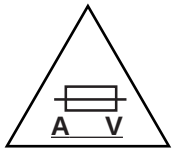
Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the ***Replacement Parts Lists*** and ***Schematic Diagrams***.
For continued protection, replacement parts must be identical to those used in the original circuit.
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.

AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.



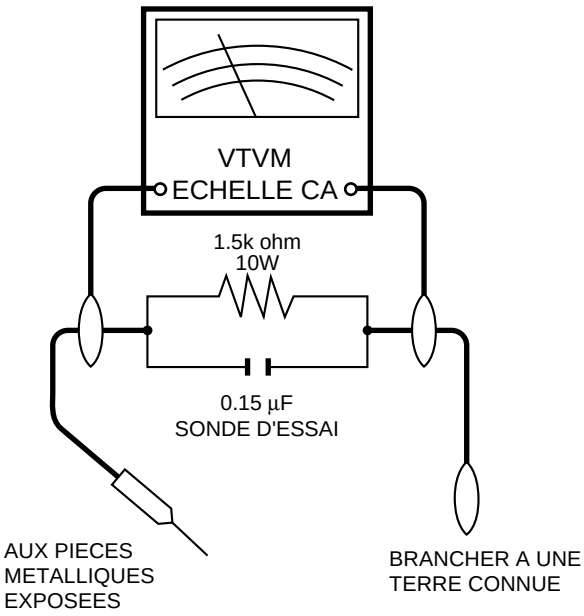
PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE PAR UN FUSIBLE DE MEME TYPE F3701 (2.0A, 250V), F3702 (1.25A, 250V), F6500(1.25A, 250V), F6501(1.25A, 250V).

VERIFICATIONS CONTRE L'INCEN-DIE ET LE CHOC ELECTRIQUE

Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.

1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la facon suivante:

- Brancher le cordon d'alimentation directem-ent à une prise de courant de 110-240V. (Ne pas utiliser de transformateur d'isolation pour cet essai).
- A l'aide de deux fils à pinces, brancher une résistance de 1.5kΩ 10 watts en parallèle avec un condensateur de 0,15µF en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
- Utiliser un voltmètre CA d'une sensibilité d'au moins 5000Ω/V pour mesurer la chute de tension en travers de la résistance.
- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adpatation non polarisée peut être utilisée dans le but de terminer ces vérifications.) Tous les courants mesurés ne doivent pas dépasser 0,5 mA.
  Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseurs présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque " ⚠ " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.
Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

Precautions for using lead-free solder

1 Employing lead-free solder

"All PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.
Example:

Indicates lead-free solder of tin, silver and copper.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

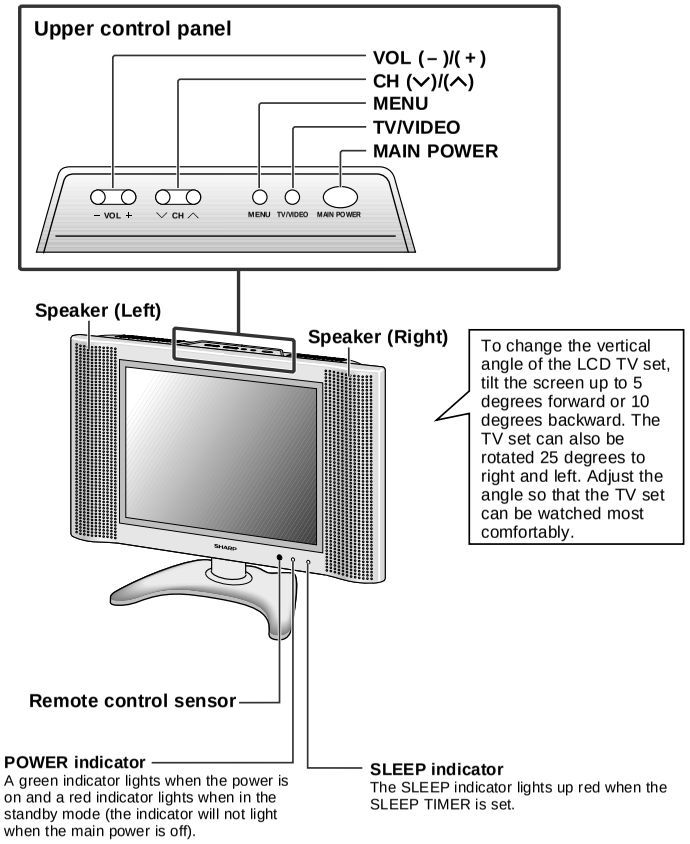
Part No,	★	Description		Code
ZHNDAi123250E	J	ϕ0.3mm	250g(1roll)	BL
ZHNDAi126500E	J	ϕ0.6mm	500g(1roll)	BK
ZHNDAi12801KE	J	ϕ1.0mm	1kg(1roll)	BM

SPECIFICATIONS

Items / Model		LC-13B4U
LCD panel		13” Advanced Super View & BLACK TFT LCD
Number of dots		921,600 dots VGA
Video color systems		N358, N443, PAL, PAL-M, PAL-N, SECAM, PAL-60
TV function	Destination	USA/Latin America/Taiwan
	TV Standard (CCIR)	NTSC/PAL-M/PAL-N
	TV Tuning System	PLL 181 ch.
	STEREO	MTS+SAP
	CATV	125 ch.
Y/C FILTER		4-LINE COMB FILTER
Brightness		430 cd/m^2
Lamp life (Fluorescent lamp)		60,000 hours
Viewing angles		H: 170° V: 170°
Audio amplifier		2.1 W × 2
Speakers		$1^{37}/_{64} \times 2^{3}/_{4}$ in. (4 × 7 cm), 2 pcs.
Terminals	AV-IN1	AV-IN1, S-VIDEO-IN
	AV-IN2	AV-IN2/AV-OUT
	COMPONENT	COMPONENT-IN, AUDIO-IN
	Antenna	F-Type
	Headphone	Mini-jack for stereo (ø3.5 mm)
OSD language		English/French/Spanish
Power supply		DC 12V, AC 110-240V, 50/60Hz
Weight		9.7 lbs. (4.4 kg), w/o accessories
Accessories		Remote control, Battery (x2), Antenna cable, AC adapter, AC cord, Cable clamp (x2), Operation manual

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

Controls

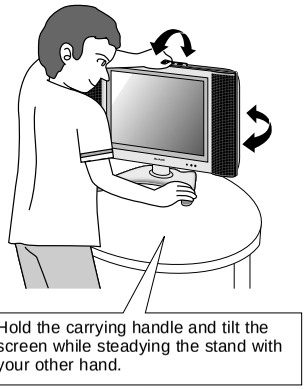


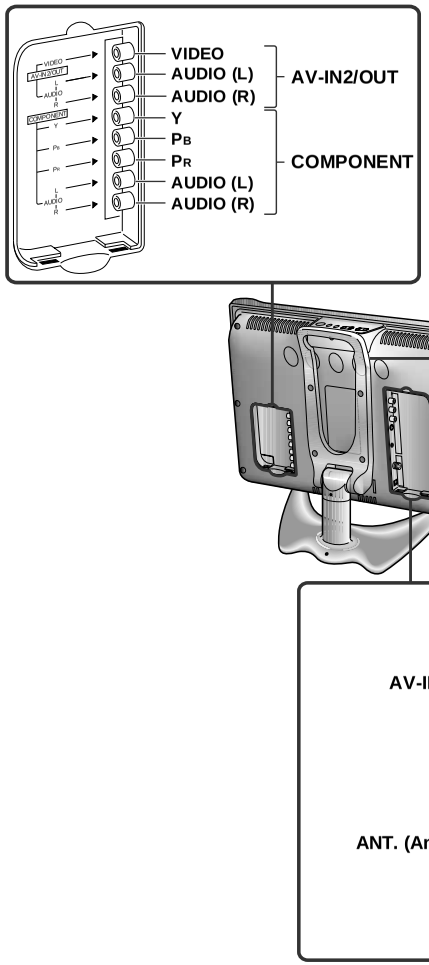
NOTE

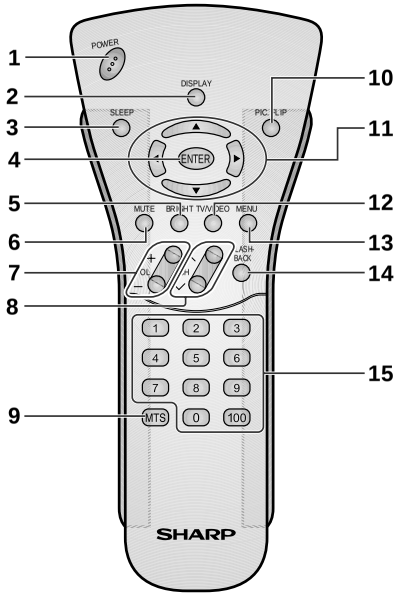
- **TV/VIDEO**, **CH (∨)/(∧)**, **VOL (–)/(+)**, and **MENU** on the main unit have the same functions as the same buttons on the remote control. Basically, this operation manual provides a description based on operation with the remote control.

Terminals

● **Adjusting the screen view angle**







1 POWER
Switch the Liquid Crystal Television power on or off.

2 DISPLAY
Display the channel and time information.

3 SLEEP
Set the sleep timer.

4 ENTER
Execute a command.

5 BRIGHT
Adjust the brightness of the screen.

6 MUTE
Mute the sound.

7 VOL (+)/(–)
Set the volume.

8 CH (∧)/(∨)
Select channel.

9 MTS
Select audio settings.

10 PIC. FLIP
Set the orientation of the picture.

11 ▲/▼/◀/▶ (Cursor control)
Select a desired item on the screen.

12 TV/VIDEO
Select a Liquid Crystal Television input source.

13 MENU
Display the menu screen.

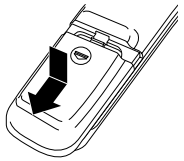
14 FLASHBACK
Return to the previous channel.

15 Channel Select
Set the channel.

Batteries for the Remote Control

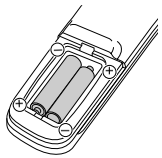
Before using the LCD TV set for the first time, install two (“AAA” size, UM/SUM-4) batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new (“AAA” size, UM/SUM-4) batteries.

1 Open the battery cover.



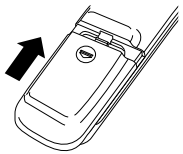
■ Slide the cover while pressing the (▼) part.

2 Insert two (“AAA” size, UM/SUM-4) batteries.



■ Position the positive and negative ends of the batteries as indicated in the compartment.

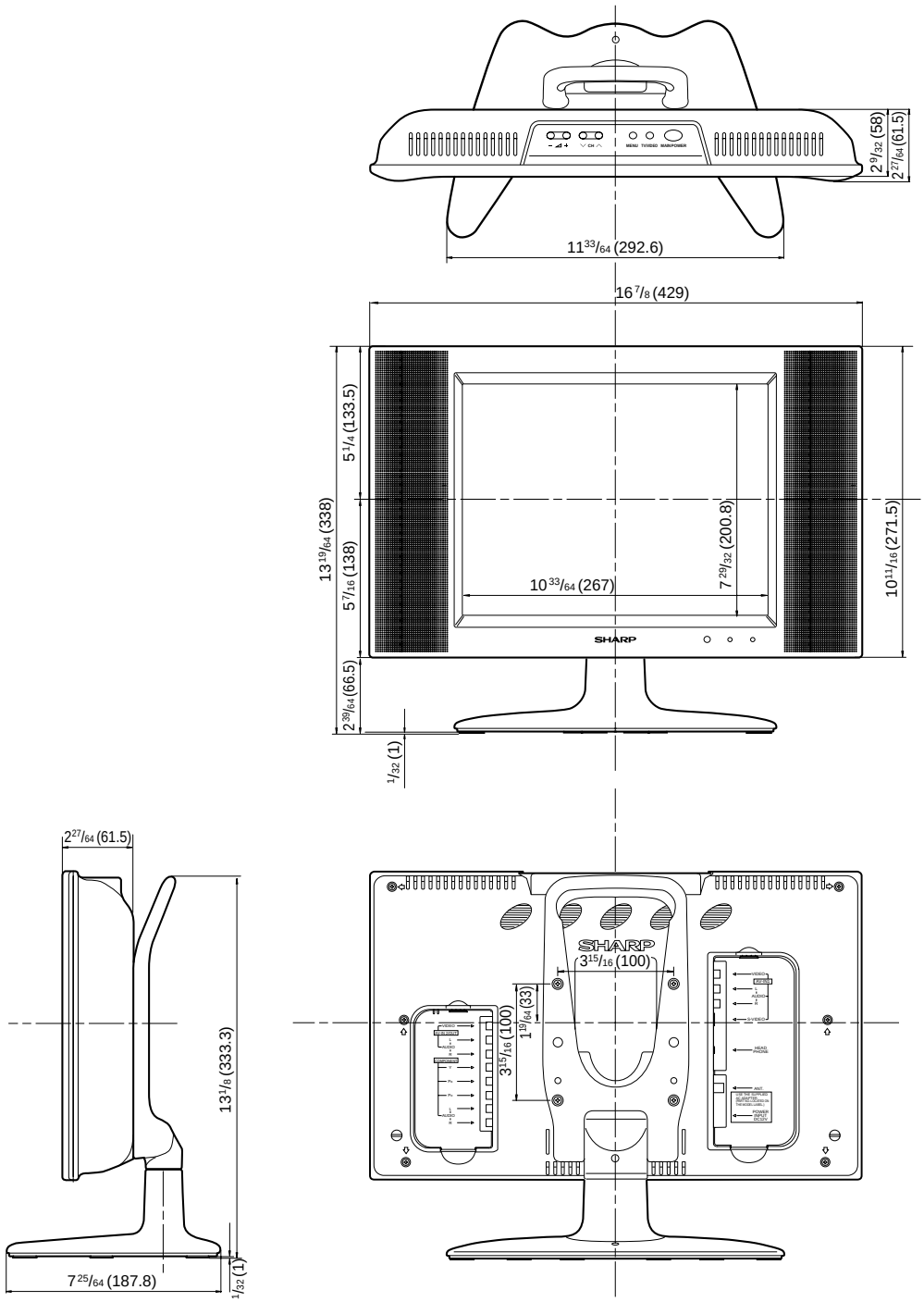
3 Close the battery cover.



■ Engage the claw on the cover into the battery housing and slide shut.

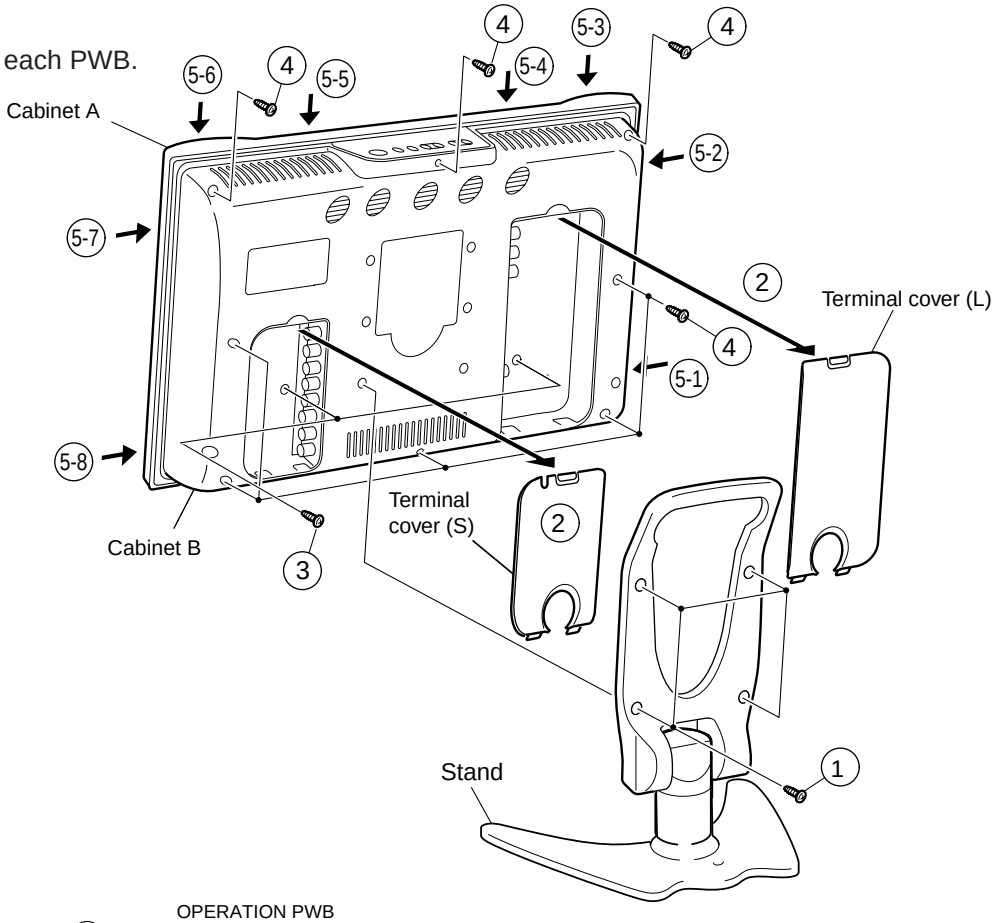
DIMENSIONS

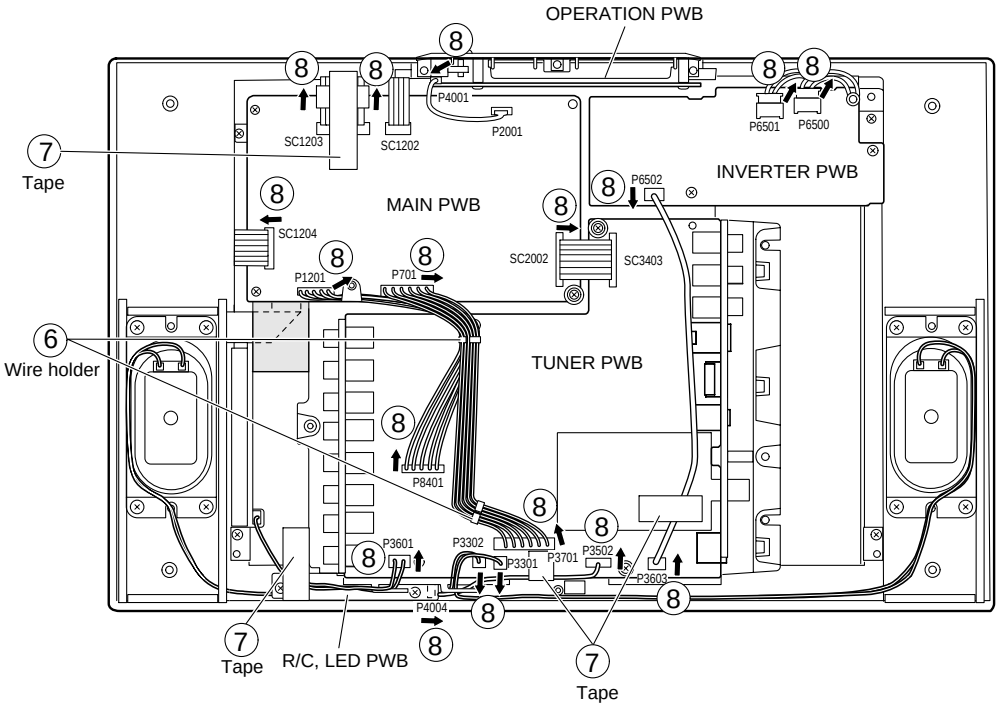
Unit: inch (mm)



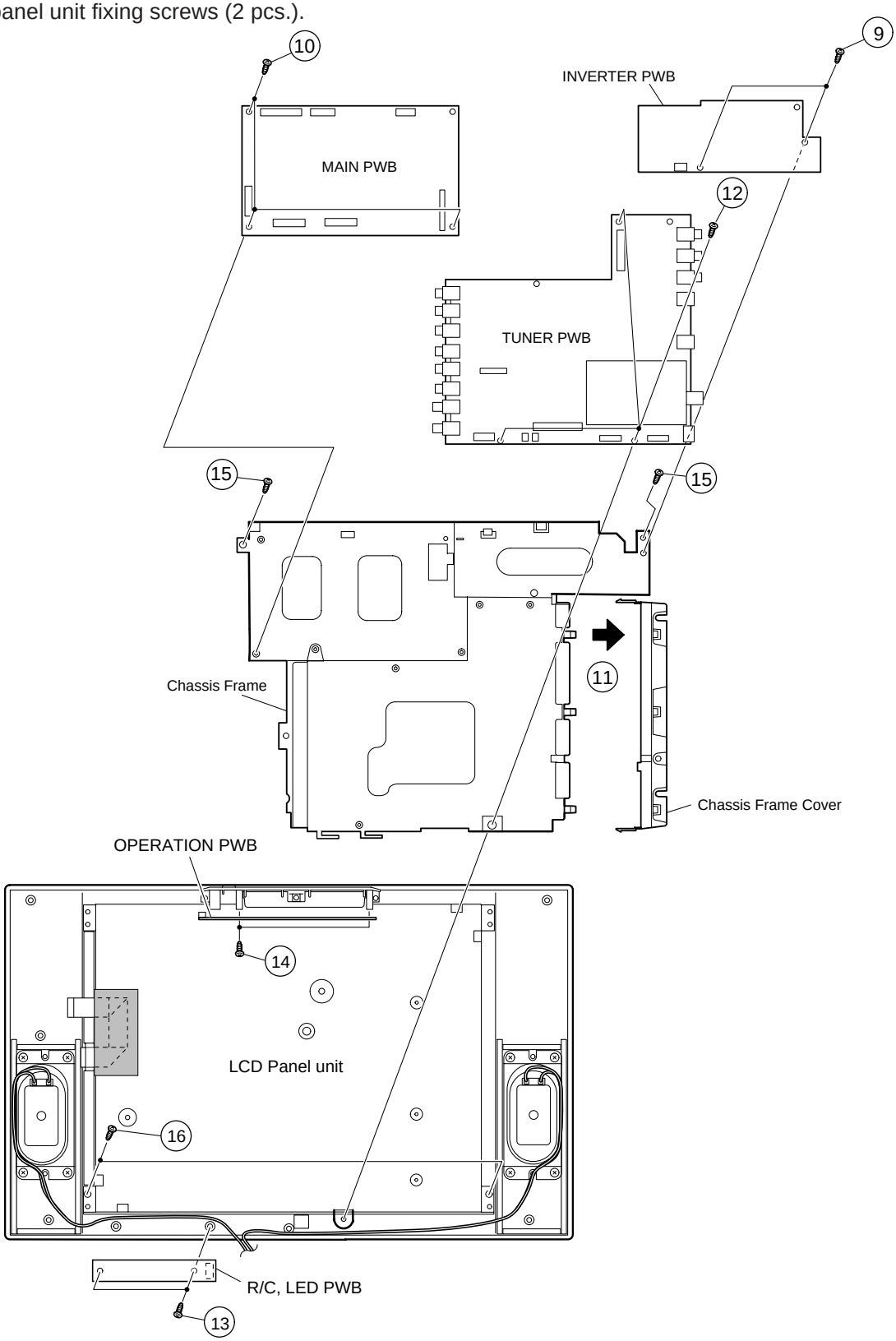
REMOVING OF MAJOR PARTS

1. Remove the stand fixing screws (4 pcs.).
2. Remove the two terminal covers.
3. Remove the terminal section fixing screws (2 pcs.).
4. Remove the cabinet B fixing screws (8 pcs.).
5. Cabinet A is opend order of (5-1) to (5-8) , and detach the Cabinet B.
6. Release the wire holders at 2 locations.
7. Peel off the tape.
8. Detach the connector from each PWB.



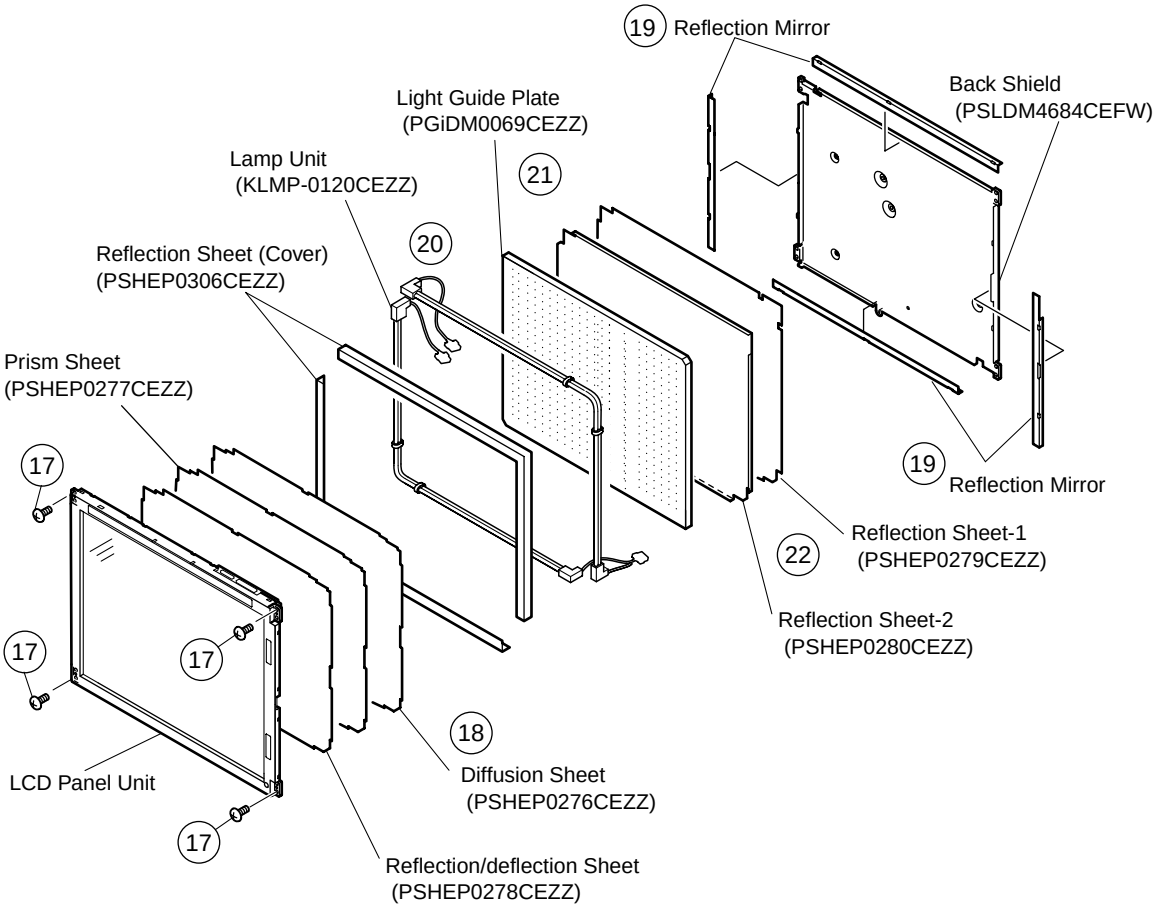


9. Remove the inverter PWB fixing screws (2 pcs.).
10. Remove the main PWB fixing screws (3 pcs.).
11. Detach the chassis frame cover.
12. Remove the tuner PWB fixing screws (3 pcs.) .
13. Remove the R/C, LED PWB fixing screws (2 pcs.).
14. Remove the operation PWB fixing screws (2 pcs.).
15. Remove the chassis frame fixing screws (2 pcs.).
16. Remove the LCD panel unit fixing screws (2 pcs.).



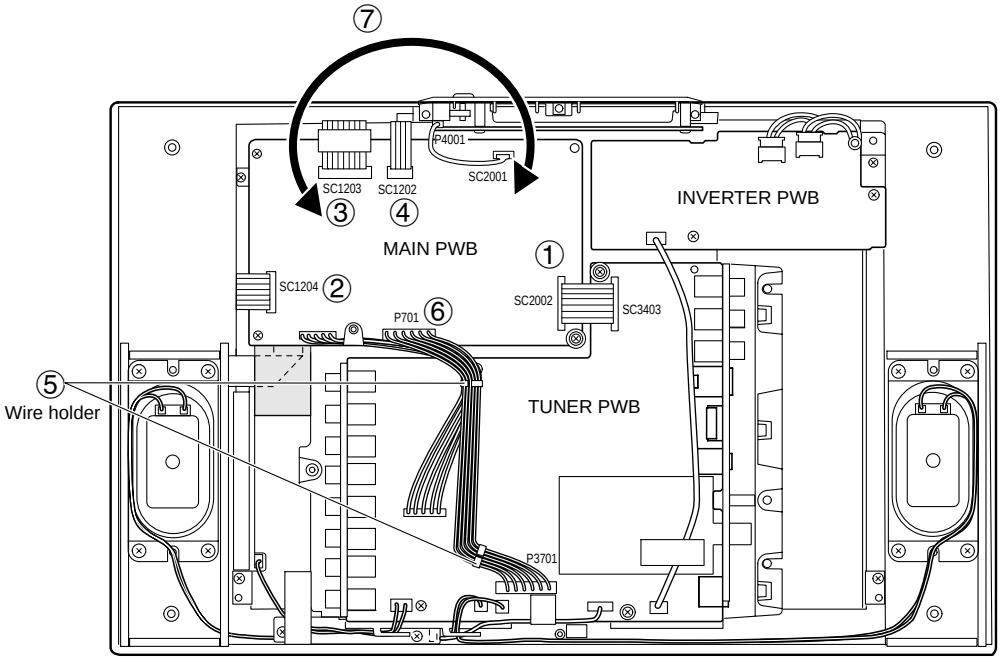
- **Precautions in handling the LCD panels**
  1. Work in a clean room (with humidities below 50%).
  2. Be sure to wear an anti-static armband.
  3. Handle the panels on an electroconductive mat.
  4. Be careful not to fall, shake and shock the panels.

17. Remove the LCD panel unit fixing screws (4 pcs.).
18. Detach the prism sheet, diffusion sheet and reflection/deflection sheet.
19. Detach the four reflection mirrors.
20. Remove the lamp unit.
21. Detach the lamp guide plate.
22. Detach the two lamp reflection sheets.



Precautions at the time of the side B(back) service of digital unit.

1. Remove only SC2002 of the FFC for connection between Main unit (SC2002) and Tuner unit(SC3403), and connect the extended cable (QCNW-A556WJZZ) for service.
2. Remove the FFC for connection between Main unit (SC1204) and LCD panel unit, and connect the extended cable (QCNW-A553WJZZ) for service.
3. Remove the FFC for connection between Main unit (SC1203) and LCD panel unit, and connect the extended cable (QCNW-A556WJZZ) for service.
4. Remove the FFC for connection between Main unit (SC1202) and LCD panel unit, and connect the extended cable (QCNW-A555WJZZ) for service.
5. Release the wire holder at 2 location.
6. Remove only P701 of the cable for connection between Main unit (P701) and Tuner unit (P3701), and connect the extended cable (QCNW-B194WJZZ) for service.
7. Remove the main unit fixing screws (3 pcs.), a substrate is reversed.



Step	Part No.	Description
1	QCNW-A556WJZZ	Extension Cable 50-pin Main (SC2002)-Tuner (SC3403)
2	QCNW-A553WJZZ	Extension Cable 30-pin Main (SC1204)-LCD Panel
3	QCNW-A556WJZZ	Extension Cable 50-pin Main (SC1203)-LCD Panel
4	QCNW-A555WJZZ	Extension Cable 20-pin Main (SC1202)-LCD Panel
6	QCNW-B194WJZZ	Extension Cable 12-pin Main (P701)-Tuner(P3701)

ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

1. Preparation for Adjustments

Use the exclusive-use AC adapter or stable DC power supply.
AC adapter: UADP-A009WJPZ
DC power supply: 12 ± 0.5V

2. Special mode setting procedure

(1) After initialization of E^2PROM the mode is changed to the adjustment mode.
[Procedure]
Connect TP2001 and TP2002 to GND, and turn on the power.

[Description]
- The initialization of microprocessor is as follows.
- AV position, DAC data, G/A data, sound processor data, and video chroma data adjustment values are taken as defaults.

(2) Adjustment mode
[Procedure]
Short-circuit TP2001 to GND, and turn on the power.
Or short-circuit TP2002 to GND, and turn on the power.
Or holding down the "TV/VIDEO" key and "MENU" key, turn on the main power, and simultaneously press the (inspection process) "CH (∨)" key and "VOL(–) " key to change the mode to the adjustment mode.

[Description]
The manual adjustment or adjustment through communication with the automatic machine is performed.

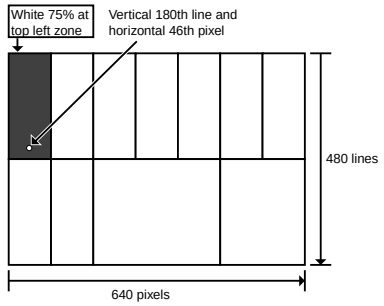
(3) Shipping setting mode
[Procedure]
Holding down the "TV/VIDEO" key and "MENU" key, turn on the main power, and simultaneously press the (inspection process) "CH (∧)" key and "VOL(+)" key to change the mode to the shipping setting mode.
Note: Keep it in mind to turn off the power immediately. If any key-in is accidentally made, the setting will be canceled.

[Description]
User adjustment and other values are taken as defaults.
If TV is indicated as SETTING COMPLETE, setting has been completed.

3. Cancel of special mode

Turn off the main unit power.

4. Adjustments

	Adjustment	Adjusting conditions	Adjusting method
1	B+ Adjustment (R3714)	1. Connect the DC voltmeter to pin (4) of P3701.	1. Adjust the "B+ Adj" value to 5.0±0.02V with R3714. Make exact adjustment of the 5.00V level because it will be the reference for all the other supply voltages. Be sure to make this adjustment together with the main PWB (digital PWB). During the adjustment, be also careful not to allow the voltage at pin (2) of P3701 to go above 5.3 V.
2	Inch Size setup (If E^2PROM is replaced) (IC2010)	1. Go to the adjustment mode.	1. Select "INCH SIZE" and adjust to "13" with "VOL(+)" or "VOL(–)" key. * The color of "INCH SIZE" must be yellow.
3	Common-bias adjustment	1. Receive a B/W channel. 2. Go to the adjustment mode. 3. Select the "COM BIAS" with "MENU" key.	1. Adjust "COM BIAS" to the darkest screen with "VOL(+)" and "VOL(–)" key. * The color of "COM BIAS" must be yellow.
4	TAMP adjustment	1. Receive a half color bar signal in the TV mode so that the top left zone should turn white 75% as shown below. Other signal can be fed instead of the half color bar signal, however, if the point at the vertical 180th line and horizontal 46th pixel is of white 75%. (Make the adjustment based on the setting of this point.) 2. Adjust the "NTSC TAMP" setting on page 2 of adjustment process mode so that the "Y" reading on the same page should be 187 - 202. 3. Make the same setting for the PAL-M TAMP and PAL-N TAMP data.	 2 COM BIAS 118 TAMP L 187 — "Y" data TDATA – TAMP H 202 NTSC TAMP 20 PAL-M TAMP 20 PAL-N TAMP 20 ↑ On usual screen ("Y" data is not exact.) 2 NTSC TAMP 20 YDATA 187 *** 202 "Y" data ↑ On single-item screen ("Y" data is exact.)

	Adjustment	Adjusting conditions	Adjusting method
5	White balance adjustment	1. Receive the monoscope pattern signal. 2. Select Page 3 of Adjustment Process mode. 3. * Adjust the upper six items before going to the six D2 items. * Once the upper six items have been adjusted, their respective D2 items are now self-adjusted to the same settings or add-on settings. Readjust the D2 items as required. * Even when the D2 items have been readjusted, the upper six items stay intact. D2:COMPONENT 480P INPUT	3 RCUTOFF 0 Red cut-off adjustment GCUTOFF 0 Green cut-off adjustment BCUTOFF 0 Blue cut-off adjustment R-GAIN 0 White balance G-GAIN 0 White balance B-GAIN 0 White balance D2 RCUTOFF 0 Red cut-off adjustment (D2) D2 GCUTOFF 0 Green cut-off adjustment (D2) D2 BCUTOFF 0 Blue cut-off adjustment (D2) D2 R-GAIN 0 White balance (D2) D2 G-GAIN 0 White balance (D2) D2 B-GAIN 0 White balance (D2)
6	Checking and modifying the settings adjustment (If E^2PROM is replaced)	Go to the adjustment mode and check the following settings.	See if all the settings are as specified. If not, select an item in question with "VOL(+)" or "VOL(–)" key and adjust the setting as shown at left. * An item selected will be highlighted in yellow.

	Adjustment	Adjusting conditions	Adjusting method
7	E^2PROM data write	1. Call up the adjustment process menu and get Page 6 displayed on-screen. 2. Enter "A40000002681" for the "I^2C DATA" item in Line 1. 3. Move the cursor to the "I^2C DATA" item in Line 2 and carry out "SEND" with the right cursor key.	If the wrong data has been sent: 1. Initialize the E^2PROM. (Take the special mode setting procedure (1).) 2. Take the adjustment steps 2 thru 7.

5. Shipping setting list

EZ SETUP AUTO START ..... ON
LANGUAGE ..... ENGLISH
LAST CHANNEL 2ch
LAST TV/INPUT ..... TV
LAST AIR/CATV ..... AIR
SKIP DATA_CATV ..... ALL SKIP
SKIP DATA_AIR ..... ALL SKIP
VOLUME 20
SLEEP TIMER
  SLEEP TIMER ..... CLEAR
VIDEO ADJUST
  PICTURE 50
  TINT 0
  COLOR 0
  BLACK LEVEL 0
  SHARPNESS 0
  RED-BLUE 0
  GREEN 0
  COLOR SYSTEM N358
PRESET
  BRIGHTNESS ..... BRIGHT
  MTS ..... STEREO
  AUTO POWER OFF ..... OFF
  PICTURE FLIP ..... NORMAL
  AV21N/OUT ..... IN
CLOSED CAPTION
  CC/TEXT ..... OFF
V-CHIP BLOCK
  SECRET No. (V-CHIP) ..... CLEAR
  MPAA RATING ..... NONE(ALL ---)
  GUIDELINE RATING ..... NONE(ALL ---)
  GUIDELINE CONTENTS ..... ALL UNBLOCK(BLANK)
  CDN.ENGLISH RATING ..... NONE(ALL ---)
  CDN.FRENCH RATING ..... NONE(ALL ---)
  V-CHIP STATUS ..... OFF
SET UP
  BLUE SCREEN ..... OFF
CLOCK
  CLOCK ..... AUTO CLOCK

  EDS CH SET ..... AUTO
  EDS CH(AUTO) ..... (NOT DETERMINED)
  EDS CH(MANUAL) 2
  TIME 12:00AM
  DST ..... OFF

Test patterns in adjustment process mode

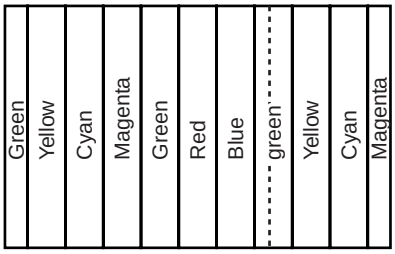
[1] IC801 (Video decoder) test patterns

1-1. Getting the test patterns displayed

Put the screen in AV1, AV2 or COMPONENT but keep out any signal. Call the adjustment process mode, select "TEST PATTERN" in the 3rd line of VPC 1, make the settings 1 thru 6, and the following test patterns show up.

1-2. Test patterns

- Setting 1

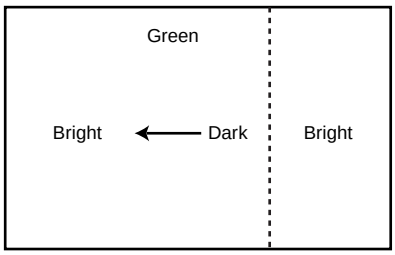


The color bars are displayed as shown at left.

- Setting 2

  Finer vertical stripes than Setting 1 are displayed.

- Setting 3



The green pattern is displayed as shown at left.

- Setting 4

  A rather dark green-only pattern is displayed.

- Setting 5

  A half-tone green-only pattern is displayed.

- Setting 6

  A rather bright green-only pattern is displayed.

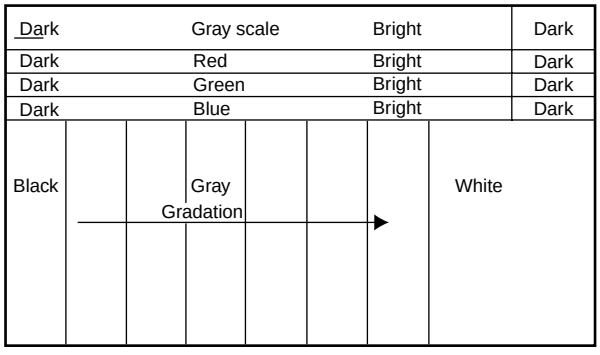
[2] IC1201 (LCD controller) test pattern

2-1. Getting the test pattern displayed

Put the screen in AV1, AV2 or COMPONENT but keep out any signal. Call the adjustment process mode, select "TEST PATTERN" in the 3rd line of DPS 1, turn on the setting, and the following test pattern shows up.

2-2. Test pattern

The following test pattern appears.



Note: When the IC801 and IC1201 test pattern display commands are both turned on at the same time, the IC1201 test pattern is given priority.

Pin functions of microprocessor IC (IC2001) RH-iXA620WJZZQ

Pin No.	Name of Terminal	I/O	In Power Saving* Within 1 min. after Power-OFF by R/C Unit	Name of Function	Function in Normal Times
1	VHOLD1	I		Vhold	For CLOSED CAPTION
2	HLF1	I/O		HLF	For CLOSED CAPTION
3	P94/DA1/SCL3/RXD2	O	L		N.C.
4	P93/DA0/SDA3/TXD2	O	L	TIMELED	For LED lighting in timer operation
5	P92/TB2IN/DIGR0	O	L		N.C.
6	P91/TB1IN	I	Hi-Z	CSYNC	Composite sync signal
7	P90/TB0IN	I	Hi-Z	IREM1	Remote control
8	BYTE	O		BYTE	GND
9	CNVSS	O		CNVss	GND (“H” at the time of flash writing)
10	P87/XCIN/DIGG0	I		Xcin	32 kHz oscillation input
11	P86/XCOUTDIGB0	O		Xout	32 kHz oscillation output
12	RESET	I		RESET	Reset state at “L”
13	XOUT	O		Xout	Microprocessor oscillator connection
14	VSS	I		Vss	GND
15	XIN	I		Xin	Microcomputer oscillator connection
16	VCCI	I		Vccl	Power supply (3.3 V)
17	OSC1/OSCHLF	I		OSCin	Clock input for OSD
18	OSC2	O			N.C.
19	P83/INT1	I	Hi-Z	PSWin	Power supply monitor (“L” at the time of power-ON)
20	P82/INT0	O	L		N.C.
21	OUT1	O	L	BLK	OSD blanking output
22	OUT2	O	L		Not Used
23	P77/HC1	O	L	DAC1CS	Gray scale control IC chip selection
24	P76/TA3OUT	O	L		N.C.
25	P75/HC0	O	L		N.C.
26	P74/TA2OUT	O	L		N.C.
27	P73/CTS2, RTS2	I	Hi-Z	MRDY	I^2C bus open connection selection input
28	P72/SCL2/CLK2	I/O	Hi-Z	SCL2	I^2C bus serial clock line 2 (EEPROM)
29	P71/SCL1/RXD2	I/O	Hi-Z	SCL1	I^2C bus serial clock line 1 (UV TUNER, VPC, MSP, 3D YC, DPS)
30	P70/SDA1/TXD2	I/O	Hi-Z	SDA1	I^2C bus serial data line 1
31	P67/SDA2	I/O	Hi-Z	SDA2	I^2C bus serial data line 2
32	R/DIGR1	O	L	OSD_R	R signal output of OSD
33	G/DIGG1	O	L	OSD_G	G signal output of OSD
34	B/DIGB1	O	L	OSD_B	B signal output of OSD
35	P63/TXD0	O		SUBDout	(T x D at flash WRITE)
36	P62/RXD0	I		SUBDin	(R x D at flash WRITE)
37	P61/CLK0	I		SCLK	Clock input at flash WRITE
38	P60/CTS0/RTS0	O		BUSY	Busy output at flash WRITE
39	P57/RDY/CLKOUT	O		MAIN SW	Main SW ON “H”/OFF “L” (LED power supply control)
40	P56/ALE	O	L		N.C.
41	P55/HOLD	I		EPM	“L” at flash WRITE
42	P54/HLDA	I	Hi-Z	L_ERR	Fluorescent lamp error detection processing (Error at “H”)
43	P53/BCLK	O	L	S IN/OUT	Audio input/output selection (Audio output at “L”)
44	P52/RD	O	L	PC/VD	D2 (& PC) mode selection (D2 or PC mode at “L”)
45	P51/WRH/BHE	O	L		N.C.
46	P50/WRL/WR	I		CE	“H” at flash WRITE
47	P47/CS3	O	L	AV1/AV2	AV selector SW
48	P46/CS2	O	L	TV/AV	AV selector SW
49	P45/CS1	O	L		N.C.
50	P44/CS0	O	L	VSHOUT	Panel gate driver voltage control

* Except for AUTO CLOCK being in operation when the power is OFF

Pin No.	Name of Terminal	I/O	In Power Saving* Within 1 min. after Power-OFF by R/C Unit	Name of Function	Function in Normal Times
51	P43/A19	O	L	REQ	Adjusting process
52	P42/A18	O	L	LED_POW	Green by TV power supply LED control at “H”, and red at “L”
53	P41/A17	O	L	SP MUTE 1	Main speaker MUTE
54	P40/A16	O	L	CVBS/Y	CVBS/Y selection (AV selector SW)
55	P37/A15	I	Hi-Z	HP DET	Headphone detection (Headphone at “L”)
56	P36/A14	O	L	SSTBY	Speaker standby (“L” at standby)
57	P35/A13	I	Hi-Z	VSH IN	Panel gate driver voltage check (Standby maintained at “H”)
58	P34/A12	O	L	LMUTE	Line-out audio MUTE (Audio output MUTE at “H”)
59	P33/A11	O	L	V IN/OUT	Image input/output selection (Image output at “L”)
60	P32/A10	O	L	SRESET	“L” output at multi-Sound IC (MSP) reset
61	P31/A9	O	L		N.C.
62	HSYNC	I		HSYNC	Horizontal sync signal for OSD
63	P30/A8	O	L		N.C.
64	VSYNC	I		VSYNC	Vertical sync signal for OSD
65	P27/A7	O	L		N.C.
66	P26/A6	O	L		N.C.
67	P25/A5	O	L		N.C.
68	P24/A4	O	L		N.C.
69	P23/A3	O	L		N.C.
70	P22/A2	O	L		N.C.
71	P21/A1	O	L		N.C.
72	P20/A0	O	L	POWout	DC/DC control output
73	P17/D15	I	Hi-Z	ADPPOW	Adaptor ON/OFF input
74	P01/D1	O	L	DACOUTCON	Gray scale control IC for output control (Output at “H”)
75	P15/D13	O	L		N.C.
76	P14/D12	O	L		N.C.
77	P13/D11	O	L		N.C.
78	P12/D10	O	L	MP_DA	Gray scale control IC for data output
79	P11/D9	O	L	MP_CLK	Gray scale control IC for clock output
80	P10/D8	O	L	DDC_RESET	“L” output at VPC, G/A, 3DY/C, DPS reset
81	P07/D7	I	Hi-Z	KEY4	Key input 4
82	P06/D6	I	Hi-Z	KEY5	Key input 5
83	P05/D5	O	L		N.C.
84	P04/D4	O	L		N.C.
85	P03/D3	O	L		N.C.
86	P02/D2	O	L		N.C.
87	P01/D1	I	Hi-Z	POWin	DC/DC start detection (Detection at “H”)
88	P00/D0	I	Hi-Z	SSW	S terminal by S terminal connection at “L”
89	P107/AN5/DIGR2	I	Hi-Z	AFT	AFT voltage input
90	P106/AN4/DIGG2	I	Hi-Z	AGC	AGC input voltage
91	P105/AN3/DIGB2	I	Hi-Z	KEY1	Key input 1
92	P104/AN2	I	Hi-Z	KEY2	Key input 2
93	P103/AN1	I	Hi-Z		SLOW SW
94	P102/AN0	O	L		N.C.
95	VHOLD2	I		V HOLD2	For CLOSED CAPTION
96	HLF2	I/O		HLF2	For CLOSED CAPTION
97	CVIN2	I		CVin2	For CLOSED CAPTION
98	TVSETB	I		TVSETB	For CLOSED CAPTION (For test, L fixed)
99	VCCE	I		VccE	Power supply (5V)
100	CVIN1	I		CVin1	For CLOSED CAPTION

* Except for AUTO CLOCK being in operation when the power is OFF

Table of Adjusting Process Defaults

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
0	1	MODEL	A620			←	Selection of model name (For prevention of malfunction, it is impossible to change it.)
		INCH SIZE	13		→	13/15/20	Selection of screen size (inch)
		ERROR NO RESET	0	0	5	Decimal	Lamp error count and reset
		PUBLIC MODE	OFF		→	ON/OFF	Hotel mode setting
		V-CHIP	1		→	1/2	VCHIP line MUTE setting
		CANADIAN VCHIP	OFF		→	ON/OFF	Setting for responding to CANADIAN VCHIP
		EXT CONTROL	OFF		→	ON/OFF	Bus, UART opening ON/OFF (OSD display is not changed.)
		VPC SHARPNESS	ON		→	ON/OFF	Adjustment or no adjustment of SHARPNESS by VPC (No effect by D2)

EDS data captured is displayed at the top.
ROM and GAIBU version No. are displayed at the bottom.

0	2	COM BIAS	110	0	255	Decimal	Opposed bias adjustment
		TAMP L	187	0	255	Decimal	Setting Y lower limit value in TAMP adjustment
		YDATA	–	0	255	Decimal	Data READ value in TAMP adjustment
		TAMP H	202	0	255	Decimal	Setting Y upper limit value in TAMP adjustment
		NTSC TAMP	20	0	63	Decimal	TAMP adjustment
		PAL-M TAMP	20	0	63	Decimal	TAMP adjustment
		PAL-N TAMP	20	0	63	Decimal	TAMP adjustment

0	3	RCUTOFF	0	-63	63	+/- decimal	Red cut-off adjustment
		GCUTOFF	0	-63	63	+/- decimal	Green cut-off adjustment
		BCUTOFF	0	-63	63	+/- decimal	Blue cut-off adjustment
		R-GAIN	0	-63	63	+/- decimal	White balance
		G-GAIN	0	-63	63	+/- decimal	White balance
		B-GAIN	0	-63	63	+/- decimal	White balance
		D2 RCUTOFF	0	-63	63	+/- decimal	Red cut-off adjustment (D2)
		D2 GCUTOFF	0	-63	63	+/- decimal	Green cut-off adjustment (D2)
		D2 BCUTOFF	0	-63	63	+/- decimal	Blue cut-off adjustment (D2)
		D2 R-GAIN	0	-63	63	+/- decimal	White balance (D2)
		D2 G-GAIN	0	-63	63	+/- decimal	White balance (D2)
		D2 B-GAIN	0	-63	63	+/- decimal	White balance (D2)

0	4	I2C DATA					I^2C BUS control IC data WRITE and READ
		I2C DATA					Execution of WRITE and READ
		SOUND					Goes to SOUND adjustment page.
		VPC					Goes to VPC adjustment page.
		DPS					Goes to DPS adjustment page.
		DAC					Goes to DAC adjustment page.
		TUNER					Goes to TUNER adjustment page.
		OTHERS					Goes to other adjustment page.

1	SOUND1	VOLUME	20	0	60	Decimal	Volume
		AVC	OFF		→	OFF/8SEC /4SEC /2SEC/20MS	AVC setting
		MSP DATA	0	–	–	–	Sound IC MSP data WRITE and READ
		MSP DATA	WAIT	–	–	–	Execution of WRITE and READ
		CARRIER MUTE	ON		→	ON/OFF	Sound output setting without TV sync
		SP TEST	OFF		→	OFF/LR	For sound test

1	SOUND2	PRESCALE SCART	27	0	127	Decimal	Pre-scale setting (External input)
		PRESCALE FM/AM-M	33	0	127	Decimal	Pre-scale setting (TV)
		IGR THR	12D	0A0	7F0	Hexadecimal	IGR Thresh level

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
1	SOUND3	EXT GEQ BAND1	+0.5	-12.0	+12.0	Unit 0.5	Equalizer setting 1 (External input)
		EXT GEQ BAND2	+1.0	-12.0	+12.0	+/- decimal	Equalizer setting 2 (External input)
		EXT GEQ BAND3	+0.5	-12.0	+12.0		Equalizer setting 3 (External input)
		EXT GEQ BAND4	-1.5	-12.0	+12.0		Equalizer setting 4 (External input)
		EXT GEQ BAND5	-1.0	-12.0	+12.0		Equalizer setting 5 (External input)
		TV GEQ BAND1	+0.5	-12.0	+12.0		Equalizer setting 1 (TV)
		TV GEQ BAND2	+1.0	-12.0	+12.0		Equalizer setting 2 (TV)
		TV GEQ BAND3	+0.5	-12.0	+12.0		Equalizer setting 3 (TV)
		TV GEQ BAND4	-1.5	-12.0	+12.0		Equalizer setting 4 (TV)
		TV GEQ BAND5	-1.0	-12.0	+12.0		Equalizer setting 5 (TV)
1	SOUND4	MDB	OFF			ON/OFF	MDB
		LVL	00				
		FRQ	50				
		STR	00				
		LMT	00				
		HMC	00h				
		HPF	20				
		LPF	50				
2	VPC1	VPC DATA	0	–	–	–	Image IC VPC data WRITE and READ
		VPC DATA	WAIT	–	–	–	Execution of WRITE and READ
		TEST PATTERN	0	0	6	Decimal	VPC test pattern selection
		AUTO LCK	10	0	4094	Decimal	Line lock mode selection
		NTSC AVO STOP	0	0	2047	Decimal	Horizontal position setting (at N358)
		PAL AVO STOP	858	0	2047	Decimal	Horizontal position setting (at other than N358)
		CBW N358	2	0	3	Decimal	Chroma band pass setting (at N358)
		CBW OTHERS	1	0	3	Decimal	Chroma band pass setting (at other than N358)
		AUTO LDLY	0	-7	1	+/- decimal	Y/C phase setting
		FP12TIM	700	0	1000	Unit 100/Decimal	Measures against up/down bound
2	VPC2	NOSEL	3	0	3	Decimal	COM filter setting
		DDR	0	0	3	Decimal	COM filter setting
		HDG	2	0	3	Decimal	COM filter setting
		VDG	1	0	3	Decimal	COM filter setting
		VPK	3	0	15	Decimal	COM filter setting
		KILVL 08	08	0	FF	Hexadecimal	Color killer level setting
		KILHY 05	05	0	FF	Hexadecimal	Color killer hysteresis setting
		VSYNC DELAY	7	0	255	Decimal	V sync phase setting (in normal times)
		D2 VSYNC DELAY	7	0	255	Decimal	V sync phase setting (at 480P)
		DVCO	-720	-2048	2047	+/- decimal	DVCO setting (in normal times)
		D2 DVCO	1000	-2048	2047	+/- decimal	DVCO setting (at 480P)
2	VPC3	N358 AVO START	139	0	1023	Decimal	Horizontal position setting
		N358 SFIF	0	0	4095	Decimal	Horizontal position setting
		N358 SCINC1	1635	1024	4095	Decimal	Circularity setting
		N358 AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		N358 TV LDLY	0	-7	1	+/- decimal	Y/C phase setting (TV)
		N358 PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		N358 TV H-PEAKING	2	0	7	Decimal	Image sharpness setting (TV)
		N358 AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		N358 TV CORING	1	0	1	Decimal	Image sharpness setting 2 (TV)
		N358 AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC4	N358 TV CONTRAST	48	0	63	Decimal	Image setting (TV)
		N358 AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		N358 TV COLOR	2070	0	4094	Decimal	Color depth setting (TV)
		N358 AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		N358 TV TINT	-10	-512	512	+/- decimal	Hue setting (TV)
		N358 AV TINT	-10	-512	512	+/- decimal	Hue setting (composite, S-image)
		N358 BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
2	VPC5	PAL-M AVO START	139	0	1023	Decimal	Horizontal position setting
		PAL-M SFIF	0	0	4095	Decimal	Horizontal position setting
		PAL-M SCINC1	1635	1024	4095	Decimal	Circularity setting
		PAL-M AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		PAL-M TV LDLY	0	-7	1	+/- decimal	Y/C phase setting (TV)
		PAL-M PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		PAL-M TV H-PEAKING	2	0	7	Decimal	Image sharpness setting (TV)
		PAL-M AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		PAL-M TV CORIMGf	1	0	1	Decimal	Image sharpness setting 2 (TV)
		PAL-M AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC6	PAL-M TV CONTRAST	48	0	63	Decimal	Image setting (TV)
		PAL-M AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		PAL-M TV COLOR	2070	0	4094	Decimal	Color depth setting (TV)
		PAL-M AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		PAL-M TV TINT	0	-512	512	+/- decimal	Hue setting (TV)
		PAL-M AV TINT	0	-512	512	+/- decimal	Hue setting (composite, S-image)
		PAL-M BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)
2	VPC7	PAL-N AVO START	139	0	1023	Decimal	Horizontal position setting
		PAL-N SFIF	0	0	4095	Decimal	Horizontal position setting
		PAL-N SCINC1	1635	1024	4095	Decimal	Circularity setting
		PAL-N AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		PAL-N TV LDLY	0	-7	1	+/- decimal	Y/C phase setting (TV)
		PAL-N PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		PAL-N TV H-PEAKING	2	0	7	Decimal	Image sharpness setting (TV)
		PAL-N AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		PAL-N TV CORING	1	0	1	Decimal	Image sharpness setting 2 (TV)
		PAL-N AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC8	PAL-N TV CONTRAST	48	0	63	Decimal	Image setting (TV)
		PAL-N AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		PAL-N TV COLOR	2070	0	4094	Decimal	Color depth setting (TV)
		PAL-N AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		PAL-N TV TINT	0	-512	512	+/- decimal	Hue setting (TV)
		PAL-N AV TINT	0	-512	512	+/- decimal	Hue setting (composite, S-image)
		PAL-N BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)
2	VPC9	PAL AVO START	139	0	1023	Decimal	Horizontal position setting
		PAL SFIF	0	0	4095	Decimal	Horizontal position setting
		PAL SCINC1	1635	1024	4095	Decimal	Circularity setting
		PAL AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		PAL PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		PAL AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		PAL AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC10	PAL AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		PAL AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		PAL AV TINT	0	-512	512	+/- decimal	Hue setting (composite, S-image)
		PAL BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)
2	VPC11	SECAM AVO START	139	0	1023	Decimal	Horizontal position setting
		SECAM SFIF	0	0	4095	Decimal	Horizontal position setting
		SECAM SCINC1	1635	1024	4095	Decimal	Circularity setting
		SECAM AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		SECAM PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		SECAM AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		SECAM AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC12	SECAM AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		SECAM AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		SECAM AV TINT	0	-512	512	+/- decimal	Hue setting (composite, S-image)
		SECAM BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)

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2	VPC13	PAL60 AVO START	139	0	1023	Decimal	Horizontal position setting
		PAL60 SFIF	0	0	4095	Decimal	Horizontal position setting
		PAL60 SCINC1	1635	1024	4095	Decimal	Circularity setting
		PAL60 AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		PAL60 PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		PAL60 AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		PAL60 AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC14	PAL60 AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		PAL60 AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		PAL60 AV TINT	0	-512	512	+/- decimal	Hue setting (composite, S-image)
		PAL60 BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)
2	VPC15	N443 AVO START	139	0	1023	Decimal	Horizontal position setting
		N443 SFIF	0	0	4095	Decimal	Horizontal position setting
		N443 SCINC1	1635	1024	4095	Decimal	Circularity setting
		N443 AV LDLY	0	-7	1	+/- decimal	Y/C phase setting (composite, S-image)
		N443 PEAKING FILTER	0	0	2	Decimal	Peaking filter setting (TV, composite, S-image)
		N443 AV H-PEAKING	2	0	7	Decimal	Image sharpness setting (composite, S-image)
		N443 AV CORING	1	0	1	Decimal	Image sharpness setting 2 (composite, S-image)
2	VPC16	N443 AV CONTRAST	48	0	63	Decimal	Image setting (composite, S-image)
		N443 AV COLOR	2070	0	4094	Decimal	Color depth setting (composite, S-image)
		N443 AV TINT	-10	-512	512	+/- decimal	Hue setting (composite, S-image)
		N443 BRIGHTNESS	16	-128	127	+/- decimal	Brightness setting (TV, composite, S-image)
2	VPC17	DVD NTSC CR	35	0	63	Decimal	Color depth setting (component)
		DVD NTSC CB	35	0	63	Decimal	Color depth setting (component)
		DVD NTSC TINT	1	-31	31	Decimal	Hue setting (component)
		DVD NTSC BRIGHTNESS	70	-128	127	Decimal	Brightness setting (component)
		DVD NTSC BRIGHT2	16	-128	127	Decimal	Brightness setting 2 (component)
		DVD NTSC CONTRAST	26	0	63	Decimal	Image setting (component)
		DVD NTSC CONTRAST2	48	0	63	Decimal	Image setting 2 (component)
		DVD NTSC P FILTER	0	0	2	Decimal	Peaking filter setting (component)
		DVD NTSC H-PEAKING	1	0	7	Decimal	Image sharpness setting (component)
		DVD NTSC CORING	1	0	1	Decimal	Image sharpness setting 2 (component)
2	VPC18	DVD PAL CR	35	0	63	Decimal	Color depth setting (component)
		DVD PAL CB	35	0	63	Decimal	Color depth setting (component)
		DVD PAL TINT	1	-31	31	Decimal	Hue setting (component)
		DVD PAL BRIGHTNESS	70	-128	127	Decimal	Brightness setting (component)
		DVD PAL BRIGHT2	16	-128	127	Decimal	Brightness setting 2 (component)
		DVD PAL CONTRAST	26	0	63	Decimal	Image setting (component)
		DVD PAL CONTRAST2	48	0	63	Decimal	Image setting 2 (component)
		DVD PAL P FILTER	0	0	2	Decimal	Peaking filter setting (component)
		DVD PAL H-PEAKING	1	0	7	Decimal	Image sharpness setting (component)
		DVD PAL CORING	1	0	1	Decimal	Image sharpness setting 2 (component)
3	DPS1	DPS DATA	0	–	–	–	DPS data WRITE and READ
		DPS DATA	WAIT	–	–	–	Execution of WRITE and READ
		DPS TESTP	OFF		→	ON/OFF	DPS test pattern select
		N358 TVCOLOR	40	0	63	Decimal	Changes to DPS control (h'88 [5:0])
		N358 AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88 [5:0])
		N358 TV TINT	3	-32	31	+/- decimal	Changes to DPS control (h'89 [5:0])
		N358 AV TINT	3	-32	31	+/- decimal	Changes to DPS control (h'89 [5:0])
		N358 BRIGHTNESS	15	-256	255	+/- decimal	Changes to DPS control (h'8A [7:0], h'8B [6])
		N358 TV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B [5:0])
		N358 AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B [5:0])

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3	DPS2	N358 TV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		N358 AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		N358 TV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		N358 AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		N358 TV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		N358 AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		N358 VSTART1	35	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		N358 VSTOP1	36	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		N358 HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS3	N358 TV LTI	128	0	255	Decimal	DPS h'77[7:0]
		N358 AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		N358 TV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		N358 AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		N358 TV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		N358 AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		N358 TV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		N358 AV CTI7D	57	0	255	Decimal	DPS h'7D[7:0]
		N358 TV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
		N358 AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS4	N358 TV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		N358 AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		N358 TV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		N358 AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		N358 TV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		N358 AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		N358 TV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		N358 AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		N358 TV CROP	7	0	15	Decimal	DPS h'76[3:0]
		N358 AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS5	N358 HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		N358 HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		N358 HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		N358 HSCPOSC	4047	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		N358 VSCPOSC 4E	61	0	255	Decimal	DPS h'4E[7:0]
		N358 VSCPOSC 4F	9	0	255	Decimal	DPS h'4F[7:0]
		N358 VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		N358 VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		N358 VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		N358 PPLOP	823	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		N358 PPLOP REF.					Display only
3	DPS6	PAL-M TV COLOR	40	0	63	Decimal	Changes to DPS control ('88[5:0])
		PAL-M AV COLOR	40	0	63	Decimal	Changes to DPS control ('88[5:0])
		PAL-M TV TINT	0	-32	31	+/- decimal	Changes to DPS control ('89[5:0])
		PAL-M AV TINT	0	-32	31	+/- decimal	Changes to DPS control ('89[5:0])
		PAL-M BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control ('8A[7:0],h'8B[6])
		PAL-M TV CONTRAST	54	0	63	Decimal	Changes to DPS control ('8B[5:0])
		PAL-M AV CONTRAST	54	0	63	Decimal	Changes to DPS control ('8B[5:0])
3	DPS7	PAL-M TV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL-M AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL-M TV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL-M AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL-M TV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL-M AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL-M VSTART1	35	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		PAL-M VSTOP1	36	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		PAL-M HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]

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3	DPS8	PAL-M TV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL-M AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL-M TV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL-M AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL-M TV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL-M AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL-M TV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL-M AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL-M TV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
		PAL-M AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS9	PAL-M TV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL-M AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL-M TV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL-M AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL-M TV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL-M AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL-M TV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL-M AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL-M TV CROP	7	0	15	Decimal	DPS h'76[3:0]
		PAL-M AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS10	PAL-M HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		PAL-M HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		PAL-M HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		PAL-M HSCPOSC	4047	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		PAL-M VSCPOSC 4E	61	0	255	Decimal	DPS h'4E[7:0]
		PAL-M VSCPOSC 4F	9	0	255	Decimal	DPS h'4F[7:0]
		PAL-M VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		PAL-M VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		PAL-M VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		PAL-M PPLOP	823	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		PAL-M PPLOP REF.					Display only
3	DPS11	PAL-N TV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		PAL-N AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		PAL-N TV TINT	0	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		PAL-N AV TINT	0	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		PAL-N BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control (h'8A[7:0],h'8B[6])
		PAL-N TV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])
		PAL-N AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])
3	DPS12	PAL-N TV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL-N AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL-N TV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL-N AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL-N TV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL-N AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL-N VSTART1	41	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		PAL-N VSTOP1	42	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		PAL-N HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS13	PAL-N TV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL-N AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL-N TV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL-N AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL-N TV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL-N AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL-N TV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL-N AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL-N TV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
		PAL-N AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]

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3	DPS14	PAL-N TV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL-N AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL-N TV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL-N AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL-N TV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL-N AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL-N TV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL-N AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL-N TV CROP	7	0	15	Decimal	DPS h'76[3:0]
		PAL-N AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS15	PAL-N HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		PAL-N HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		PAL-N HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		PAL-N HSCPOSC	4000	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		PAL-N VSCPOSC 4E	36	0	255	Decimal	DPS h'4E[7:0]
		PAL-N VSCPOSC 4F	36	0	255	Decimal	DPS h'4F[7:0]
		PAL-N VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		PAL-N VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		PAL-N VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		PAL-N PPLOP	975	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		PAL-N PPLOP REF.					Display only
3	DPS16	PAL AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		PAL AV TINT	0	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		PAL BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control (h'8A[7:0],h'8B[6])
		PAL AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])
3	DPS17	PAL AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL VSTART1	41	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		PAL VSTOP1	42	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		PAL HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS18	PAL AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS19	PAL AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS20	PAL HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		PAL HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		PAL HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		PAL HSCPOSC	4000	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		PAL VSCPOSC 4E	36	0	255	Decimal	DPS h'4E[7:0]
		PAL VSCPOSC 4F	36	0	255	Decimal	DPS h'4F[7:0]
		PAL VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		PAL VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		PAL VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		PAL PPLOP	975	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		PAL PPLOP REF.					Display only
3	DPS21	SECAM AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		SECAM AV TINT	0	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		SECAM BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control (h'8A[7:0],h'8B[6])
		SECAM AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])

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3	DPS22	SECAM AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		SECAM AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		SECAM AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		SECAM VSTART1	41	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		SECAM VSTOP1	42	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		SECAM HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS23	SECAM AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		SECAM AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		SECAM AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		SECAM AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		SECAM AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS24	SECAM AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		SECAM AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		SECAM AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		SECAM AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		SECAM AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS25	SECAM HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		SECAM HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		SECAM HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		SECAM HSCPOSC	4000	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		SECAM VSCPOSC 4E	36	0	255	Decimal	DPS h'4E[7:0]
		SECAM VSCPOSC 4F	36	0	255	Decimal	DPS h'4F[7:0]
		SECAM VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		SECAM VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		SECAM VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		SECAM PPLOP	975	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		SECAM PPLOP REF.					Display only
3	DPS26	PAL60 AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		PAL60 AV TINT	0	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		PAL60 BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control (h'8A[7:0],h'8B[6])
		PAL60 AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])
3	DPS27	PAL60 AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		PAL60 AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		PAL60 AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		PAL60 VSTART1	35	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		PAL60 VSTOP1	36	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		PAL60 HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS28	PAL60 AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		PAL60 AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		PAL60 AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		PAL60 AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		PAL60 AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS29	PAL60 AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		PAL60 AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		PAL60 AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		PAL60 AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		PAL60 AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS30	PAL60 HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		PAL60 HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		PAL60 HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		PAL60 HSCPOSC	4047	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		PAL60 VSCPOSC 4E	61	0	255	Decimal	DPS h'4E[7:0]
		PAL60 VSCPOSC 4F	9	0	255	Decimal	DPS h'4F[7:0]
		PAL60 VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		PAL60 VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		PAL60 VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		PAL60 PPLOP	823	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		PAL60 PPLOP REF.					Display only

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
3	DPS31	N443 AV COLOR	40	0	63	Decimal	Changes to DPS control (h'88[5:0])
		N443 AV TINT	3	-32	31	+/- decimal	Changes to DPS control (h'89[5:0])
		N443 BRIGHTNESS	+8	-256	255	+/- decimal	Changes to DPS control (h'8A[7:0],h'8B[6])
		N443 AV CONTRAST	54	0	63	Decimal	Changes to DPS control (h'8B[5:0])
3	DPS32	N443 AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		N443 AV PKCORRED7A	191	0	255	Decimal	DPS h'7A[7:0]
		N443 AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		N443 VSTART1	35	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		N443 VSTOP1	36	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		N443 HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS33	N443 AV LTI	128	0	255	Decimal	DPS h'77[7:0]
		N443 AV LMODE79	127	0	255	Decimal	DPS h'79[7:0]
		N443 AV LMIX78	67	0	127	Decimal	DPS h'78[6:0]
		N443 AV CTI7D	153	0	255	Decimal	DPS h'7D[7:0]
		N443 AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS34	N443 AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		N443 AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		N443 AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		N443 AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		N443 AV CROP	7	0	15	Decimal	DPS h'76[3:0]
3	DPS35	N443 HPRESC FIL42	0	0	63	Decimal	DPS h'42[5:0]
		N443 HSCPRESC	0	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		N443 HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		N443 HSCPOSC	4047	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		N443 VSCPOSC 4E	61	0	255	Decimal	DPS h'4E[7:0]
		N443 VSCPOSC 4F	9	0	255	Decimal	DPS h'4F[7:0]
		N443 VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		N443 VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		N443 VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		N443 PPLOP	823	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		N443 PPLOP REF.					Display only
3	DPS36	D2 AV COLOR	35	0	63	Decimal	h'88[5:0]
		D2 AV TINT	2	-32	31	+/- decimal	h'89[5:0]
		D2 BRIGHTNESS	-3	-256	255	+/- decimal	h'8A[7:0],h'8B[6]
		D2 AV CONTRAST	55	0	63	Decimal	h'8B[5:0]
3	DPS37	D2 AV PKLEVEL	7	0	15	Decimal	DPS h'7B[7:4] = h'7B[3:0]
		D2 AV PKCORRED7A	159	0	255	Decimal	DPS h'7A[7:0]
		D2 AV PKCFSOFT7C	4	0	7	Decimal	DPS h'7C[2:0]
		D2 VSTART1	26	0	1023	Decimal	DPS h'DB[7:0],h'DD[1:0]
		D2 VSTOP1	27	0	1023	Decimal	DPS h'DC[7:0],h'DD[3:2]
		D2 HSDEL	0	0	511	Decimal	DPS h'34[7:0],h'36[4]
3	DPS38	D2 AV LTI	135	0	255	Decimal	DPS h'77[7:0]
		D2 AV LMODE79	191	0	255	Decimal	DPS h'79[7:0]
		D2 AV LMIX78	79	0	127	Decimal	DPS h'78[6:0]
		D2 AV CTI7D	0	0	255	Decimal	DPS h'7D[7:0]
		D2 AV CTIBWLP7C	0	0	3	Decimal	DPS h'7C[5:4]
3	DPS39	D2 AV BLEMODE	3	0	3	Decimal	DPS h'74[7:6]
		D2 AV BGAINREF71	199	0	255	Decimal	DPS h'71[7:0]
		D2 AV POINT72	21	0	127	Decimal	DPS h'72[6:0]
		D2 AV MINFIL73	71	0	127	Decimal	DPS h'73[6:0]
		D2 AV CROP	7	0	15	Decimal	DPS h'76[3:0]

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
3	DPS40	D2 HPRESC FIL42	49	0	63	Decimal	DPS h'42[5:0]
		D2 HSCPRESC	230	0	4095	Decimal	DPS h'40[7:0],h'41[3:0]
		D2 HPOSC UPSF60	0	0	3	Decimal	DPS h'60[7:6]
		D2 HSCPOSC	4095	0	4095	Decimal	DPS h'52[7:0],h'53[3:0]
		D2 VSCPOSC 4E	61	0	255	Decimal	DPS h'4E[7:0]
		D2 VSCPOSC 4F	10	0	255	Decimal	DPS h'4F[7:0]
		D2 VSCPOSC 50	0	0	255	Decimal	DPS h'50[7:0]
		D2 VOFPOSC	0	0	255	Decimal	DPS h'51[7:0]
		D2 VPOSC UPSF60	0	0	3	Decimal	DPS h'60[4:3]
		D2 PPLOP	823	0	4095	Decimal	DPS h'47[7:0],h'48[3:0]
		D2 PPLOP REF.					Display only
3	DPS41	D2 RGB BRT	+16	-128	127	+/- decimal	DPS h'21[7:0]
		D2 RGB CON	35	0	63	Decimal	DPS h'22[5:0]
		D2 RGB USAT	32	0	63	Decimal	DPS h'23[5:0]
		D2 RGB VSAT	32	0	63	Decimal	DPS h'24[5:0]
		D2 FBLOFFST	0	0	63	Decimal	DPS h'25[5:0]
		D2 FBLDEL	2	0	6	Decimal	DPS h'26[2:0]
		D2 MIXGAIN	+21	-64	63	+/- decimal	DPS h'27[6:0]
		D2 NALPFOP	18	0	4095	Decimal	DPS h'44[7:0],h'45[3:0]
		D2 ALPFOP	488	0	4095	Decimal	DPS h'43[7:0],h'45[7:4]
		D2 OSD VB	24	0	1023	Decimal	DPS h'A1[7:0],h'A3[1:0]
		D2 OSD VE	25	0	1023	Decimal	DPS h'A2[7:0],h'A3[3:2]
3	DPS42	NTSC NAPPL	62	0	511	Decimal	DPS h'04[7:0],h'08[3]
		NTSC NALPF	8	0	255	Decimal	DPS h'06[7:0]
		NTSC NALPFOP	16	0	4095	Decimal	DPS h'44[7:0],h'45[3:0]
		NTSC ALPFOP	660	0	4095	Decimal	DPS h'43[7:0],h'45[7:4]
		NTSC OSD VB	30	0	1023	Decimal	DPS h'A1[7:0],h'A3[1:0]
		NTSC OSD VE	31	0	1023	Decimal	DPS h'A2[7:0],h'A3[3:2]
		NTSC APPL	324	0	1023	Decimal	DPS h'03[7:0],h'08[5:4]
		NTSC NAPPH	0	0	3	Decimal	DPS h'07[1:0]
		NTSC HSPPL	2	0	255	Decimal	DPS h'09[7:0]
		NTSC VSLPF	0	0	127	Decimal	DPS h'0A[6:0]
3	DPS43	PAL NAPPL	66	0	511	Decimal	DPS h'04[7:0],h'08[3]
		PAL NALPF	8	0	255	Decimal	DPS h'06[7:0]
		PAL NALPFOP	33	0	4095	Decimal	DPS h'44[7:0],h'45[3:0]
		PAL ALPFOP	488	0	4095	Decimal	DPS h'43[7:0],h'45[7:4]
		PAL OSD VB	41	0	1023	Decimal	DPS h'A1[7:0],h'A3[1:0]
		PAL OSD VE	42	0	1023	Decimal	DPS h'A2[7:0],h'A3[3:2]
		PAL APPL	324	0	1023	Decimal	DPS h'03[7:0],h'08[5:4]
		PAL NAPPH	0	0	3	Decimal	DPS h'07[1:0]
		PAL HSPPL	51	0	255	Decimal	DPS h'09[7:0]
		PAL VSLPF	0	0	127	Decimal	DPS h'0A[6:0]

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
No title No. (Because this page does not correspond to the specification of number input direct transposition.)	DPS45	DPS NLC A6	EA	0	FF	Hexadecimal	
		DPS NLC A8	EE	0	FF	Hexadecimal	
		DPS NLC AA	07	0	FF	Hexadecimal	
		DPS NLC AC	33	0	FF	Hexadecimal	
		DPS NLC AE	49	0	FF	Hexadecimal	
		DPS NLC B0	62	0	FF	Hexadecimal	
		DPS NLC B2	56	0	FF	Hexadecimal	
		DPS NLC B4	3A	0	FF	Hexadecimal	
		DPS NLC B6	EA	0	FF	Hexadecimal	
		DPS NLC B8	EE	0	FF	Hexadecimal	
		DPS NLC BA	07	0	FF	Hexadecimal	
		DPS NLC BC	33	0	FF	Hexadecimal	
		DPS NLC BE	49	0	FF	Hexadecimal	
		DPS NLC C0	62	0	FF	Hexadecimal	
		DPS NLC C2	56	0	FF	Hexadecimal	
		DPS NLC C4	3A	0	FF	Hexadecimal	
		DPS NLC C6	EA	0	FF	Hexadecimal	
		DPS NLC C8	EE	0	FF	Hexadecimal	
		DPS NLC CA	03	0	FF	Hexadecimal	
		DPS NLC CC	25	0	FF	Hexadecimal	
		DPS NLC CE	35	0	FF	Hexadecimal	
		DPS NLC D0	62	0	FF	Hexadecimal	
		DPS NLC D2	56	0	FF	Hexadecimal	
		DPS NLC D4	3A	0	FF	Hexadecimal	
4	DAC1	V0 H	240	0	255	Decimal	DAC OUT2A(04h)
		V0 L	30	0	255	Decimal	DAC OUT2B(05h)
		V7 H	213	0	255	Decimal	DAC OUT3A(06h)
		V7 L	56	0	255	Decimal	DAC OUT3B(07h)
		V21 H	200	0	255	Decimal	DAC OUT4A(08h)
		V21 L	68	0	255	Decimal	DAC OUT4B(09h)
		V64 H	183	0	255	Decimal	DAC OUT5A(0Ah)
		V64 L	84	0	255	Decimal	DAC OUT5B(0Bh)
4	DAC2	V112 H	164	0	255	Decimal	DAC OUT6A(0Ch)
		V112 L	99	0	255	Decimal	DAC OUT6B(0Dh)
		V176 H	128	0	255	Decimal	DAC OUT7A(0Eh)
		V176 L	128	0	255	Decimal	DAC OUT7B(0Fh)
		V235 H	45	0	255	Decimal	DAC OUT8A(10h)
		V235 L	210	0	255	Decimal	DAC OUT8B(11h)
		V255 H	0	0	255	Decimal	DAC OUT9A(12h)
		V255 L	255	0	255	Decimal	DAC OUT9B(13h)
4	DAC3	COM H	182	0	255	Decimal	DAC COM1A(14h)
		COM L	0	0	255	Decimal	DAC COM1B(15h)
		VGL COM H	215	0	255	Decimal	DAC COM2A(16h)
		VGL COM L	0	0	255	Decimal	DAC COM2B(17h)
		VGL ADJ	0	0	255	Decimal	DAC OUT0B(01h)
5	TUNER	AFT UP	1.8	0	3.3	Unit 0.1/Decimal	AFT voltage standard value
		AFT DOWN	1.2	0	3.3	Unit 0.1/Decimal	AFT voltage standard value
		LSYNC	625	0	9999	Decimal	Sync judgment threshold value (TV)
		HSYNC	655	0	9999	Decimal	Sync judgment threshold value (TV)
		AVSYNC	5000	0	9999	Decimal	Sync judgment threshold value (External input)
		AIR SERCH	1.600	1.200	1.950	Unit 0.5 Decimal	Last sync judgment frequency in AIR CH SEARCH
		SYSTEM	OFF	OFF		ON/OFF	Display/No display of component system selection
		EDS TEST	10	1	180	Decimal	Time (Seconds) required until judgment results in that no EDS time data is available.

1000 order Title No.	100 and 10 orders Page No.	Item	Initial Values	Min. Value	Max. Value	Display	Content
6	OTHERS1	L_ERROR WAIT	15s	0	30	Decimal + "s"	Every 1S (Time taken until error port checking is started)
		L _ERROR H TIME	1.0s	0	4	Unit 0.1/Decimal + "s"	Every 1s (H time)
		TV GAIN	OFF	→		ON/OFF	Auto gain setting for TV
		TV OSD	-27	-50	50	Decimal	Display position for other than card
		NTSC PWM FREQ	9CB	000	FFF	Hexadecimal	DPS PWMDIV(F5[7:0],F6[3:0])
		NTSC PWM DUTY	0	0	100	Decimal	DPS PWM1VAL(F7[7:0])
		PALPW FREQ	9CB	000	FFF	Hexadecimal	DPS PWMDIV(F5[7:0],F6[3:0])
		PAL PWM DUTY	0	0	100	Decimal	DPS PWM1VAL(F7[7:0])
		CLOSED CAPTION	15	1	255	Decimal	CLOSED CAPTION THRESH LEVEL
		CCD ISO	16	0	31	Decimal	CLOSED CAPTION phase setting
		EZ SETUP	ON	→		ON/OFF	Display or no display of EZ SET UP

REMOTE CONTROL CODE is displayed at the bottom.

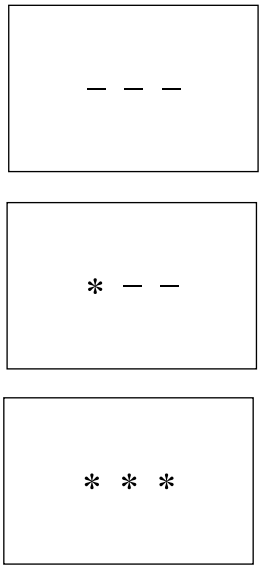
6	OTHERS2	3D Y/C	0	0	2	Decimal	3-D ON/OFF setting
		3DY/CDATA	0	–	–	–	3-D YC data WRITE and READ
		3DY/CDATA	WAIT	–	–	–	Execution of WRITE and READ
		EXCSS	–	0	3	Decimal	External CSYNC input setting
		CDL	–	0	7	Decimal	C signal output delay fine adjustment
		DYCOR	–	0	15	Decimal	DY detection coring
		DYGAIN	–	0	15	Decimal	DY detection gain
		DCCOR	–	0	15	Decimal	DC detection coring
		DCGAIN	–	0	15	Decimal	DC detection gain
		08h	–	0	255	Decimal	Various settings for non-standard detection sensitivity
		YHCOR	–	0	3	Decimal	Y output treble component coring process setting.

PUBLIC MODE SETTING PROCEDURE

1. How to start Public Mode

- There are three ways to display the hotel mode setting screen as mentioned below.

① 1) Press the MENU and Sound Vol + keys of the unit and turn ON the power.
2) Display the password input screen.



Operating procedure

- Set the initial input position at the left end digit.
- Make it possible to accept the input by the numeric keys of the remote control 1 thru 9 , and 0 and prohibit the input by other keys than these.
- Change "–" to "*" by the numeric keys of the input position and move the input position to the next "–" at the right.
- When input of the three digits is over, judge the password.

3) Confirm the password by inputting three digits.
When the password is 0 2 7 , setting of the adjusting process makes the hotel mode setting screen appear. (Setting of the adjusting process is not related to this operation.)
In other cases than this, delete the screen and proceed to operation normal mode.

② Set "PUBLIC MODE" to be ON in adjusting process. And press the keys of the unit Ch Select UP and Sound Vol + simultaneously and turn ON the power.

2. How to exit Public Mode

There are several ways to exit the hotel mode setting screen as mentioned below.

- Turn OFF the power by power input key. (★)
- Select "ENTER". (★)
- Move the cursor to "RESET" and press the "FLASHBACK" key. (Mode changes to normal mode.) (☆)

★ ... "PUBLIC MODE" of the adjusting process is held ON.
☆ ... Set values are reset to the initial values.

3. Public Mode Menu

PUBLIC MODE	
MAXIMUM VOLUME	[60]
VOLUME FIXED	[VARIABLE]
REMOTE CONTROL	[RESPOND]
USER CONTROL	[RESPOND]
ON SCREEN DISPLAY	[YES]
START MODE	[NORMAL]
INPUT MODE FIXED	[VARIABLE]
SOUND ONLY MODE	[NO]
RESET	
ENTER	

1) Operating specifications for setting
   - The cursor can be moved up and down by "Cursor UP/DOWN" (Remote control) and "CH (∧)/(∨)" (Remote control and Unit).
   - Setting can be changed by "Cursor RIGHT/LEFT" (Remote control) and "VOL(+)/(–)" (Remote control and Set).
   - When the cursor is at "ENTER", setting can be entered by "Cursor RIGHT/LEFT" (Remote control) and "VOL (+)/(–)" (Remote control and Set).

4. Public Mode Setting Values

- Public mode setting values are initialized after setting at the time of shipment.

5. On Setting Items

(1) MAXIMUM VOLUME

Option	Adjustable within the range of 1 to 60 (Not looped)
Default	60
Function	Even when the sound volume is adjusted to higher level, adjusted value does not increase any more. (Unit speaker and headphone)
Exception	• In adjusting process, it is possible to set any sound volume by VOLUME irrespective of this setting.
Remarks	• In line output, it is possible to set the sound volume within the range of -60 to 0 irrespective of adjusted value. • When the sound volume level is lower than 59, it is indicated only in figures and the sound volume level bar is not displayed.

(2) VOLUME FIXED

Option	Selection between "VARIABLE" and "FIXED" (Looped)
Default	Variable
Function	When "FIXED" is set, ① Sound volume is fixed at currently adjusted value and it is made invariable. (Unit speaker and headphone)
Exception	• In adjusting process, it is possible to set any sound volume by VOLUME irrespective of this setting.
Keys which become invalid in other settings than default	• VOL +/- [for both remote control and unit] • MUTE
Remarks	• After execution by "VARIABLE", set the sound volume to 1. • In line output, it is possible to set the sound volume within the range of -60 to 0 irrespective of adjusted value. • Sound volume fixed takes priority to maximum sound level.

(3) REMOTE CONTROL

Option	Selection between "RESPOND", "LIMITED" and "NO RESPOND" (Looped)
Default	RESPOND
Function	Remote control key operation is set. ① When "NO RESPOND" is set, remote control key function in normal operation becomes invalid. ② When "LIMITED" is set, remote control keys other than POWER, Ch. up/down, VOL+/- and BRIGHT become invalid.
Exception	• Adjusting process, setting at the time of shipment, checking process and hotel mode keys should be effective irrespective of this setting. • Adjusting process, checking process and hotel mode setting screens should be always effective irrespective of this setting.
Remarks	

(4) USER CONTROL

Option	Selection between "RESPOND" and "NO RESPOND" (Looped)
Default	RESPOND
Function	Unit keys except for POWER become invalid.
Exception	• Adjusting process, setting at the time of shipment, checking process and hotel mode keys should be effective Checking process start, hotel mode start and hotel password (See Note) should be effective irrespective of this setting. • Adjusting process, checking process and hotel mode setting screens should be always effective irrespective of this setting.

Note:

Checking process start ··· Power is turned ON when "MENU" and "TV/VIDEO" are pressed simultaneously.

Hotel mode start ··· With adjusting process and public mode being ON, power is turned On when "CH (∧)" and "VOL (+)" are pressed simultaneously.

Hotel password start ··· Power is turned ON when "MENU" and "VOL (+)" are pressed simultaneously.

(5) ON SCREEN DISPLAY

Option	"YES" or "NO" selection (Looped)
Default	"YES"
Function	When "NO" is set, OSD display is made invalid.
Exception	• Messages for V-CHIP BLOCK and CLOSED CAPTION are displayed irrespective of setting. • Checking process, Setting at the time of shipment (including F7-SETUP), adjusting process and hotel mode setting screens should be able to display.
Keys which become invalid in other settings than default	• MENU [for both remote control and unit] • SLEEP • DISPLAY • CC (Closed Caption) • LANGUAGE
Remarks	• When "NO" is set, ① SLEEP TIMER is cleared default. ② AUTO POWER OFF setting is cleared to be "OFF". ③ "SOUND ONLY MODE" setting is changed to "OFF" and selection is made prohibited.

(6) START MODE

Option	Selection between "NORMAL" and selectable input source, and selectable channel (Looped) → [NORMAL] ←→ [AV 1] ←→ [COMPONENT] ← → [*CH 1*] ←→ [CH 2] ←→ • •←→ [CH 69]←→ [*CH 70*] ←→ • • ←→[*CH 125*] ← * Italic items may not be selectable (not displayed) depending on the settings of model. **(Note)**
Default	NORMAL
Function	At the time of power-ON, input source or channel to be started is set. In the case of NORMAL mode, it follows the last memory.
Remarks	• When setting is other than at "NORMAL", ① Channel setting menu display and channel setting operation are prohibited. • When "NORMAL" is set, "START MODE FIXED" is set to "VARIABLE" and selection is prohibited.

(Note)

- It is impossible to select Video 2 (AV2).
- When channel setting is AIR, it is impossible to select [CH1] and [CH70] to [CH125].

(7) INPUT MODE FIXED

Option	Selection between "VARIABLE" and "FIXED" (Looped)
Default	Variable
Function	When "FIXED" is selected, setting values are changed forcedly to "START MODE" settings and selection of other channels is made impossible.
Keys which become invalid in other settings than default	• Ch Select UP/DOWN (CH UP/DOWN) [for both remote control and unit] • Direct channel buttons: 1 to 10/0 • Previous screen (FLASHBACK) • Input selection (TV/VIDEO) [for both remote control and unit] • Channel buttons: 100
Remarks	• When "START MODE" is set to "NORMAL", this item can not be set. ("VARIABLE" is selected automatically.) • When "FIXED" is set, • In the following cases, the settings are cancelled and "FIXED" is changed to "VARABLE". ① When "START MODE" setting is set to "NORMAL".

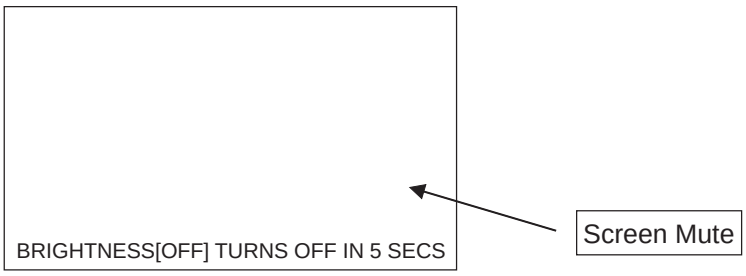
(8) SOUND ONLY MODE

Option	Selection between "YES" and "NO" (Looped)
Default	NO
Function	Whether the sound only mode is used or not (made effective or ineffective) is set.
Remarks	• When "YES" is selected, "OFF" should be added during operation of BRIGHT button. "OFF" of this BRIGHT button is for the function of sound only mode. • If" ON SCREEN DISPLAY" set value is "NO", select "NO" for cancellation of setting.

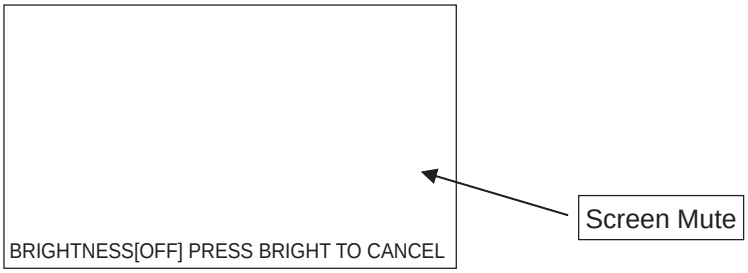
Specifications of Sound Only Mode Function

① "OFF" is should be added during operation of remote control BRIGHT button.
BRIGHTNESS [Bright] ⇒ BRIGHTNESS [Normal] ⇒
BRIGHTNESS [Dark] ⇒ BRIGHTNESS [OFF] ⇒ BRIGHTNESS [Bright]

② When "OFF" mode is selected, the screen is muted, the following message appears and time is counted. (Sound only mode entry process)
At this time, the display of time "After 5 seconds" in the message changes every second as the time is counted.
After 5 seconds ⇒ After 4 seconds ⇒ After 3 seconds ⇒ After 2 seconds ⇒ After 1 second
When 5 seconds elapse, the backlight abnormality detecting function becomes effective to turn OFF the backlight and reset the message. (Sound only mode process)



In temporary recovery, time is not counted but the following message appears. (When 5 seconds elapse, the backlight abnormality detecting function becomes effective to turn OFF the backlight and reset the message, which is same as above.)



③ As for the operations which will be performed by acceptance of keys in change-to-sound only process and sound only process.

Refer to the "Table of Key Allocation in Sound Only Mode" and "Table of Key Operations in Sound Only Mode".

④ Display of cautions in backlight-OFF
- "Display of Remaining Time in OFF-timer" are recovered temporarily, cautions are displayed and when the display ends or 3 seconds elapse, operation changes again to sound only mode entry process.
  At this time, screen mute is not reset.

⑤ When turning OFF the power by the power key, SLEEP TIMER, AUTO POWER OFF, end the sound only mode, change the brightness to BRIGHT [Bright], and then turn OFF the power.

⑥ In the case of power-ON and BRIGHT [OFF], the brightness changes to BRIGHT [Bright] and operation starts.

⑦ When the brightness is set to BRIGHT [OFF] during mute, mute is continued during change-to-sound only process (while cautions are displayed), and when the sound only mode is entered, mute is reset (as soon as the backlight is turned OFF). The sound volume after mute resetting should be same as the level which has been set before mute setting.

⑧ When operating V-CHIP block, operation is recovered temporarily and display of cautions is continued until the block is reset. However, the screen should be in black and mute but not in blue.

Table of Key Allocation in Sound Only Mode (Unit keys/Remote control keys)

	Name of Key	Allocation
Unit keys	POWER	Reset
	TV/VIDEO	Temporary recovery
	MENU	Reset
	CH	Temporary recovery
	VOL	Temporary recovery
Remote control	POWER	In Normal = Reset In Power-ON fixed = Temporary recovery
	PIC. FLIP (US)	Reset
	DISPLAY	Temporary recovery * It is recovered by call + irrespective of the state at the start of sound only mode.
	CARD	Invalid
	SLEEP	Temporary recovery
	MENU	Reset
	CURSOR	Reset
	ENTER	Reset
	BRIGHT	Special recovery
	MUTE	Special recovery
	MTS (US)	Temporary recovery
	TV/VIDEO	Temporary recovery
	VOL	Temporary recovery
	CH	Temporary recovery
	FLASHBACK	Temporary recovery
	CH0~1	Temporary recovery
	CH100	Temporary recovery
	LANGUAGE	Reset
	CLOSED CAPTION	Temporary recovery

* In the cases of sound volume fixed, mode fixed etc., priority is taken for this.

No or Wrong Picture

Does the IC806 test pattern appear properly?

No

Yes

Does the IC1201 test pattern appear properly?

Yes

Check the IC806 signal output line, IC806 itself and its peripheral circuits.

No

Are the waveforms at pins (8), (9), 26), and (27) of IC1201 as specified?

Yes

Check IC1201 and its peripheral circuits as well as the LCD panel voltage and waveform.

No

Check the related lines, IC806 itself and its peripheral circuits.

Are the waveforms at the signal input pins of IC806 as specified?
TV/Composite … Pin (73)
S Video … Pins (72) and (73)
Component … Pins (1), (2), (3) and (75)

No

Yes

Check the IC806 signal input line.

Check IC806 and its peripheral circuits.

No Power (Power LED indicator still in red)

Go to the adjustment process mode.

1

▷ MODEL	A620
INCH SIZE	20
ERROR NO RESET	0
PUBLIC MODE	OFF
V-CHIP	1
CANADIAN VCHIP	OFF
EXT CONTROL	OFF
VPC SHARPNESS	ON

VER ROM 1.00A GAIBU 0.000

Move the cursor to ERROR NO RESET and click on it (to reset to zero).

Turn off the power.

Is the power turned on again?

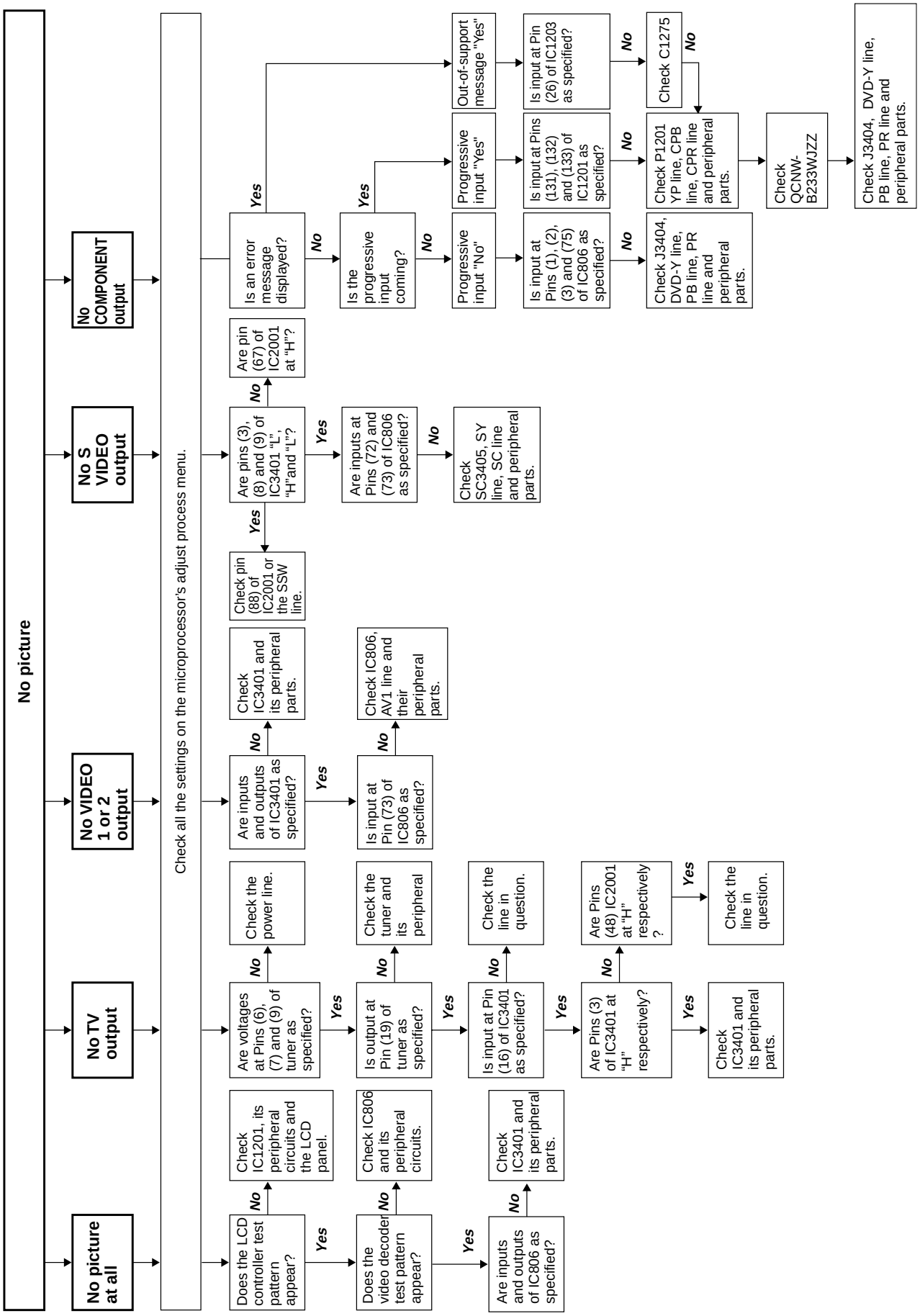
No

Check the following points.
(1) Backlight lamp
(2) Inverter circuit (Inverter PWB , Main PWB and Tuner PWB) F6500, F6501, D6500, Q6500, Q6501, Q6502, Q6503, Q6504, Q6505 and their peripheral parts as well as pin (120) of IC1201, Q3601
(3) Lamp error detection circuit (Tuner PWB and Main PWB)D3601, D3602, D3605, D3606, Q3602, Q3606 and their peripheral parts as well as pin (42) of IC2001

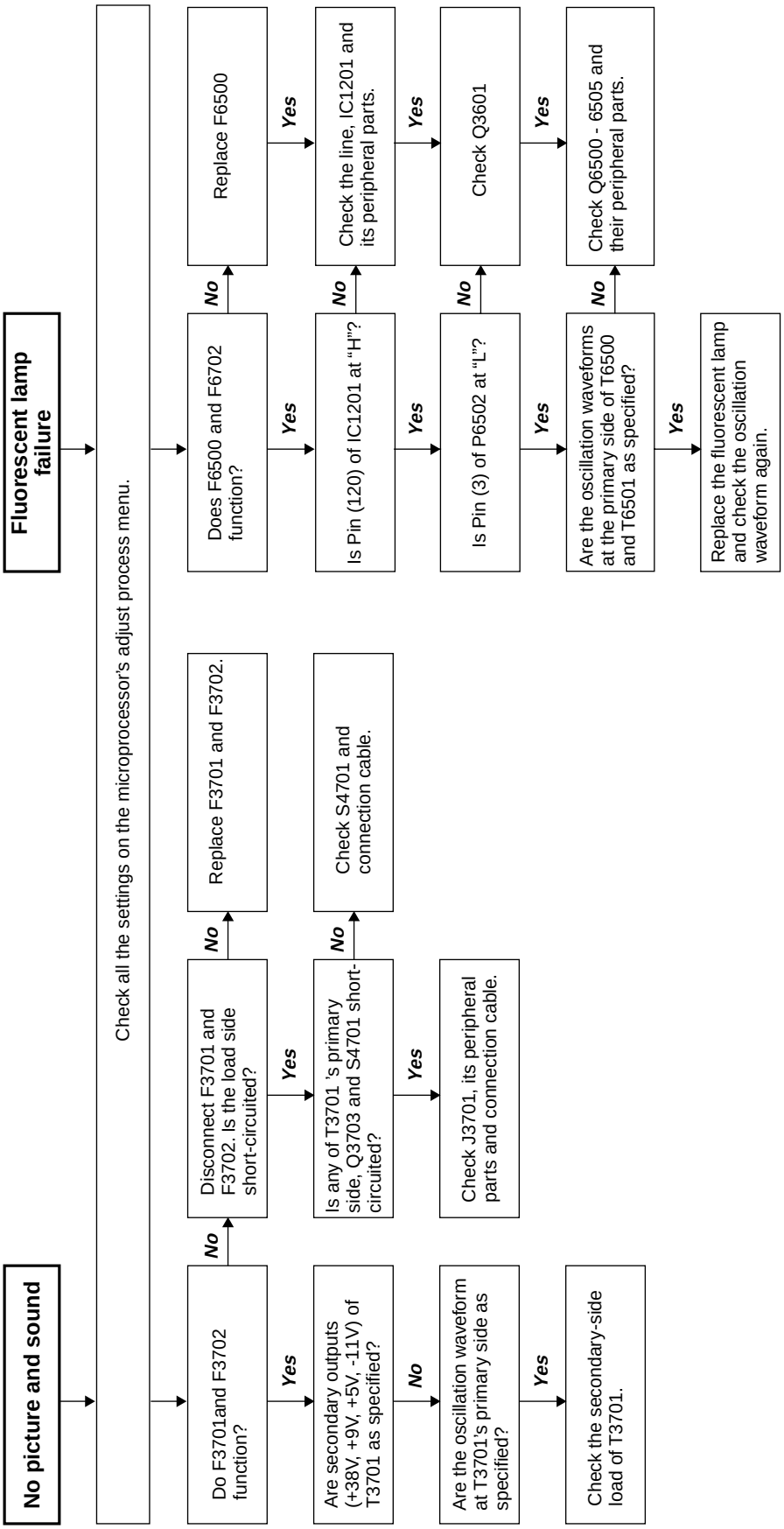
Note:

This model is equipped with the lamp error detection function that detects the current flowing into the fluorescent lamp and protects the backlight lamp drive circuit.
If a lamp error is detected, the microprocessor interrupts the unit and the ERROR NO RESET setting will go up.
When the ERROR NO RESET setting has reached "5", the microprocessor turns and keeps off the unit's power. To resume the power, take the above procedure to clear the ERROR NO RESET setting.

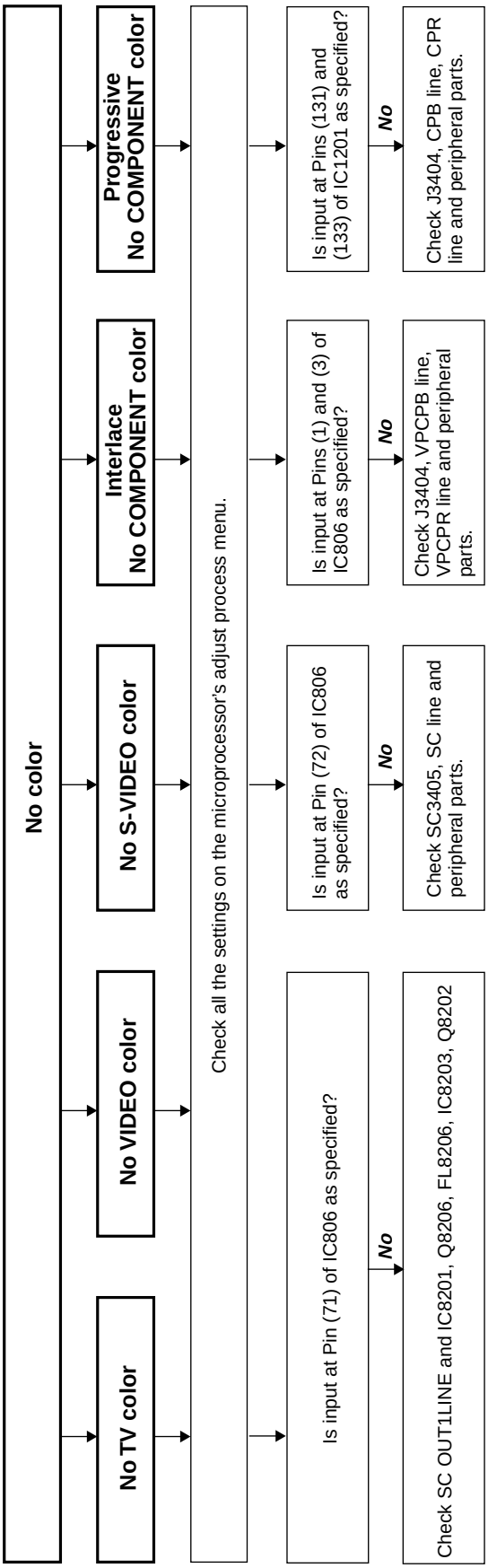
TROUBLE SHOOTING TABLE (Continued)



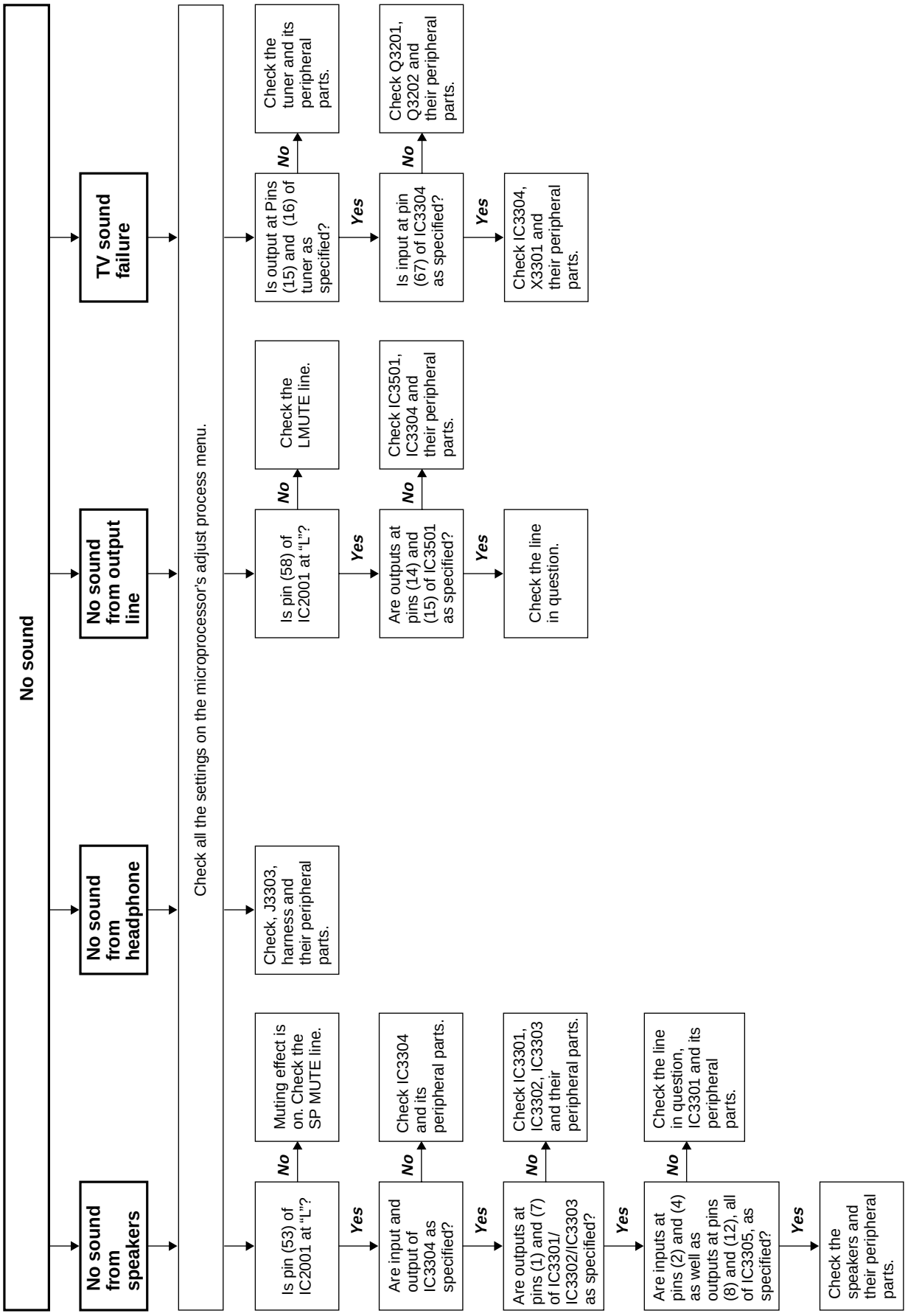
TROUBLE SHOOTING TABLE (Continued)



TROUBLE SHOOTING TABLE (Continued)

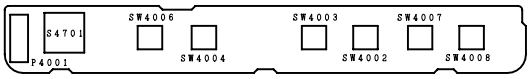


TROUBLE SHOOTING TABLE (Continued)

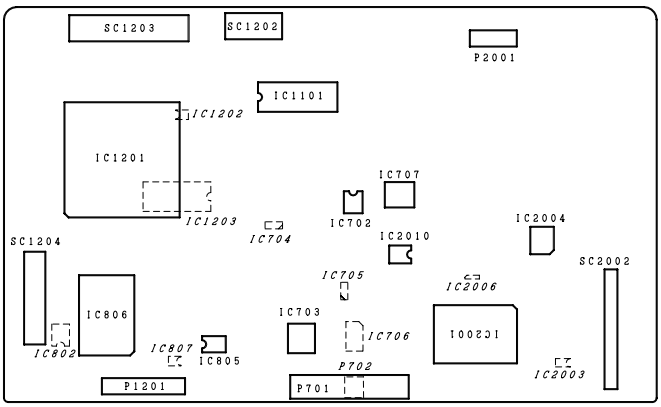


CHASSIS LAYOUT

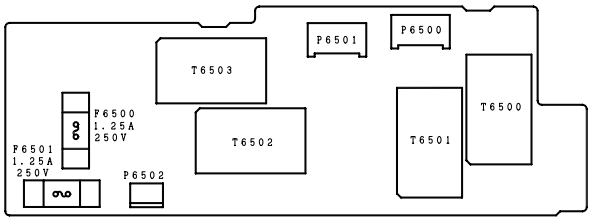
OPERATION Unit



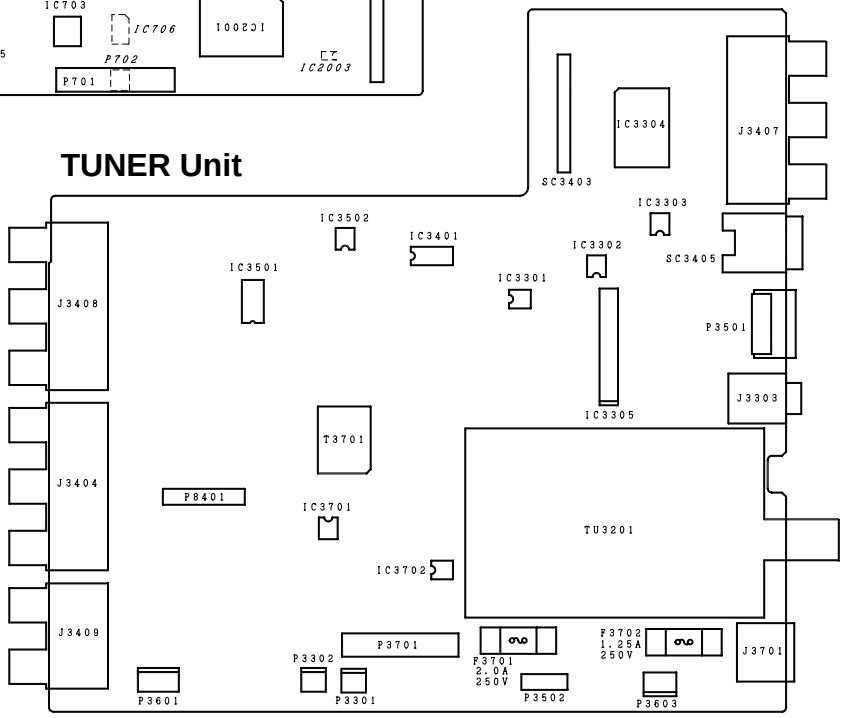
MAIN Unit



INVERTER Unit

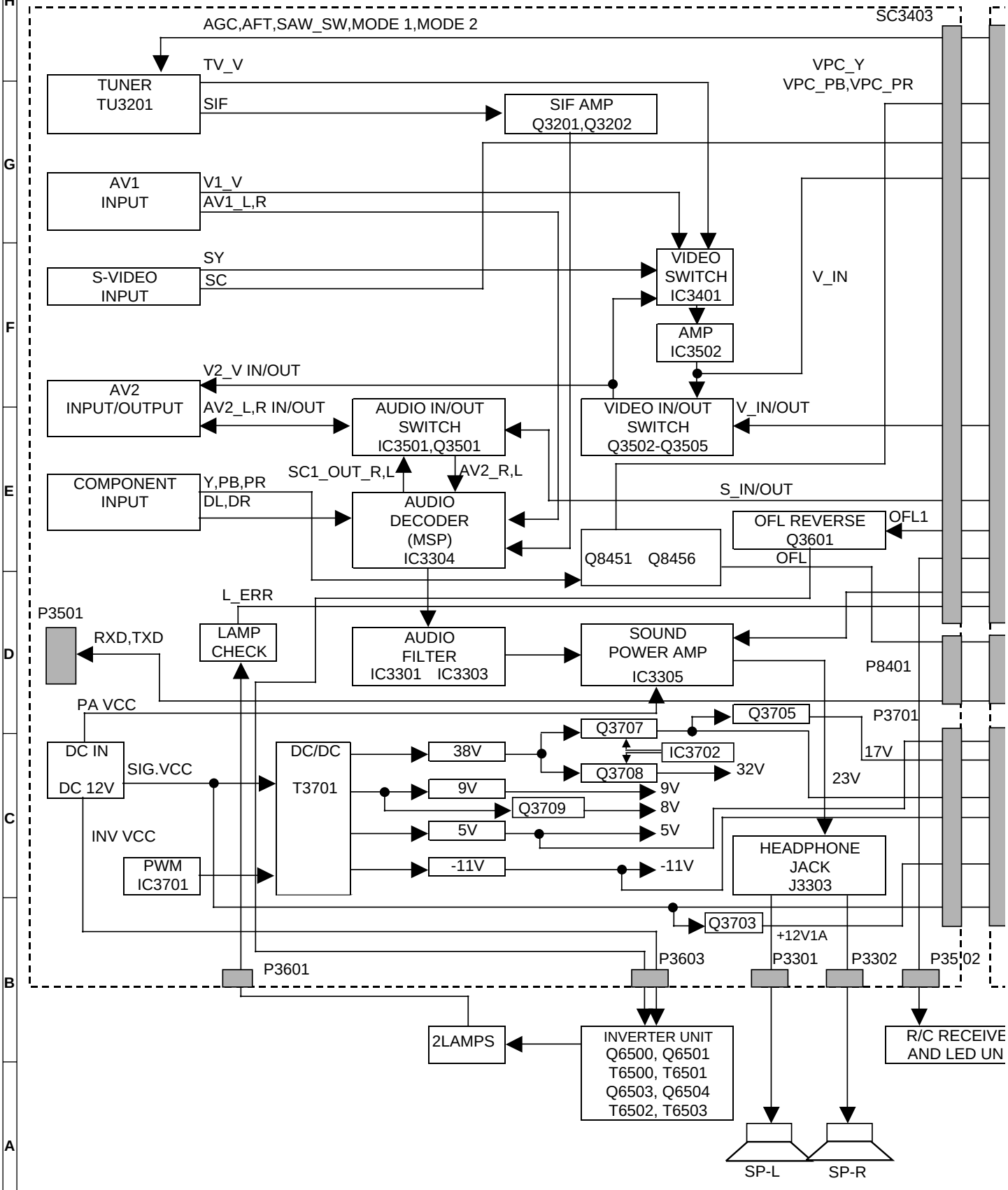


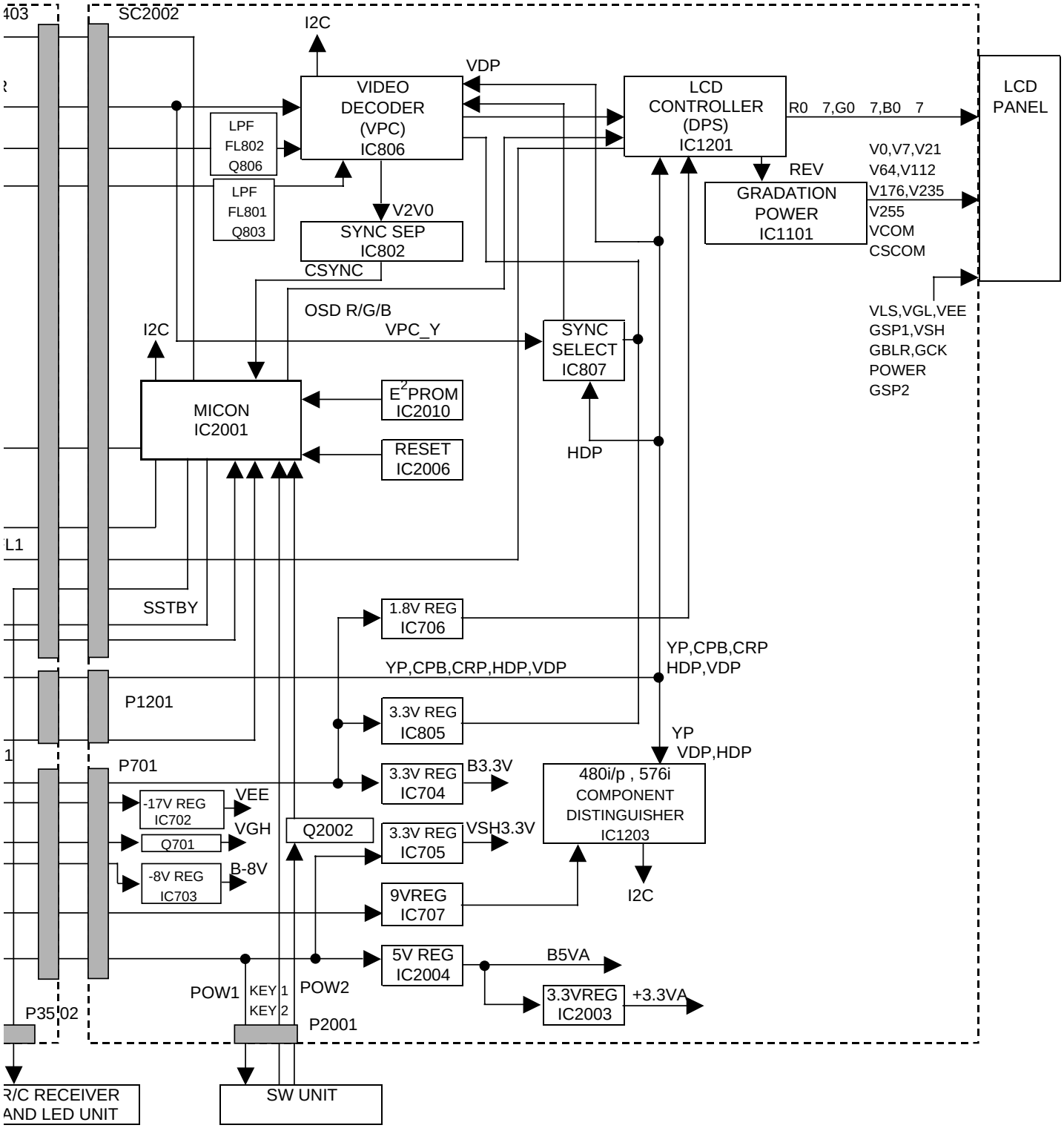
TUNER Unit



R/C, LED Unit

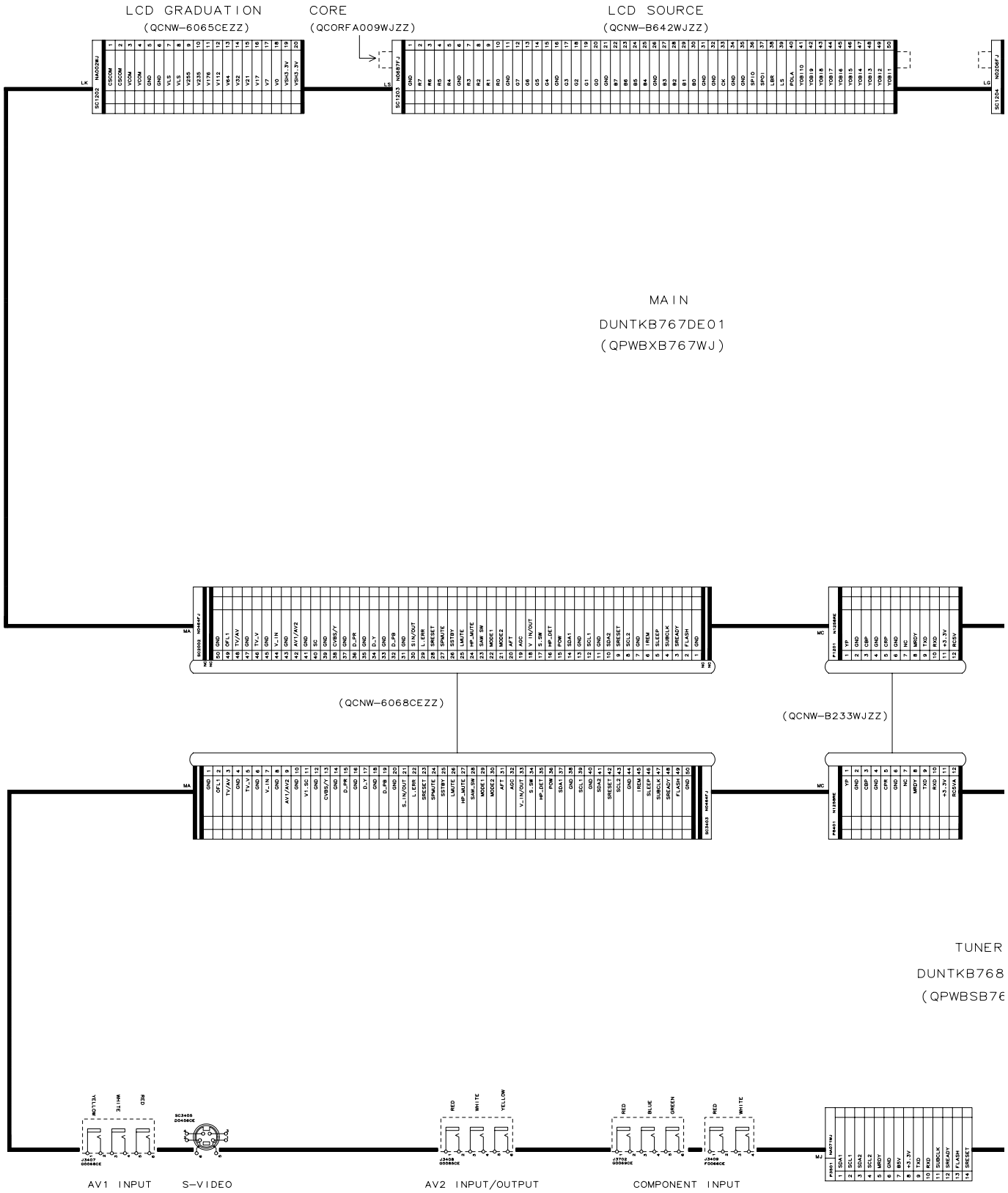
BLOCK DIAGRAM

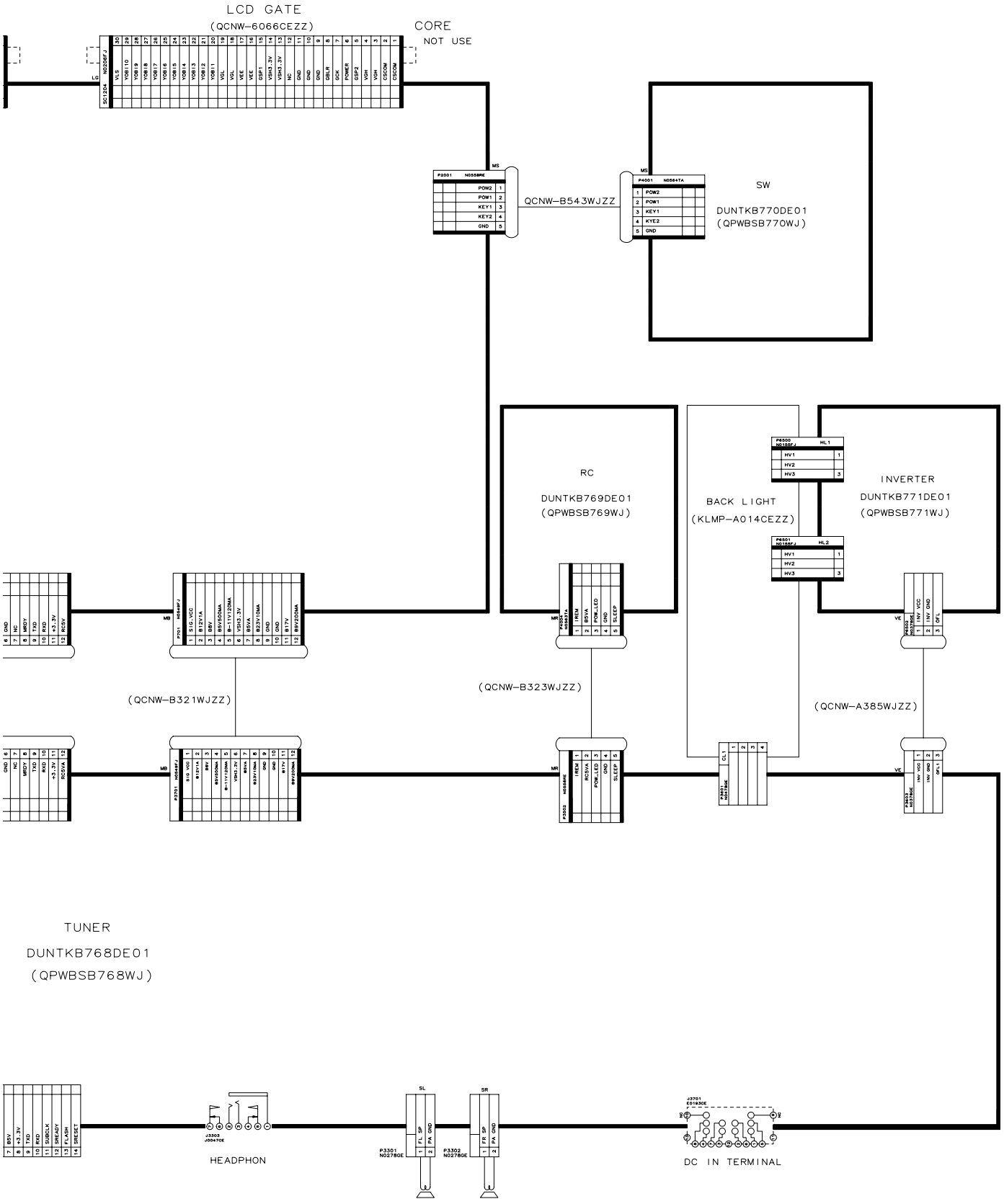




10	11	12	13	14	15	16	17	18	19

OVERALL WIRING DIAGRAM





10	11	12	13	14	15	16	17	18	19

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   - Ⓒ: Solid
   - Ⓢ: Oxide Film
   - Ⓝ: Metal Coating
   - Ⓦ: Cement
   - Ⓣ: Special

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   - (ML): Mylar
   - (PF): Polypro Film
   - (TA): Tantalum
   - (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

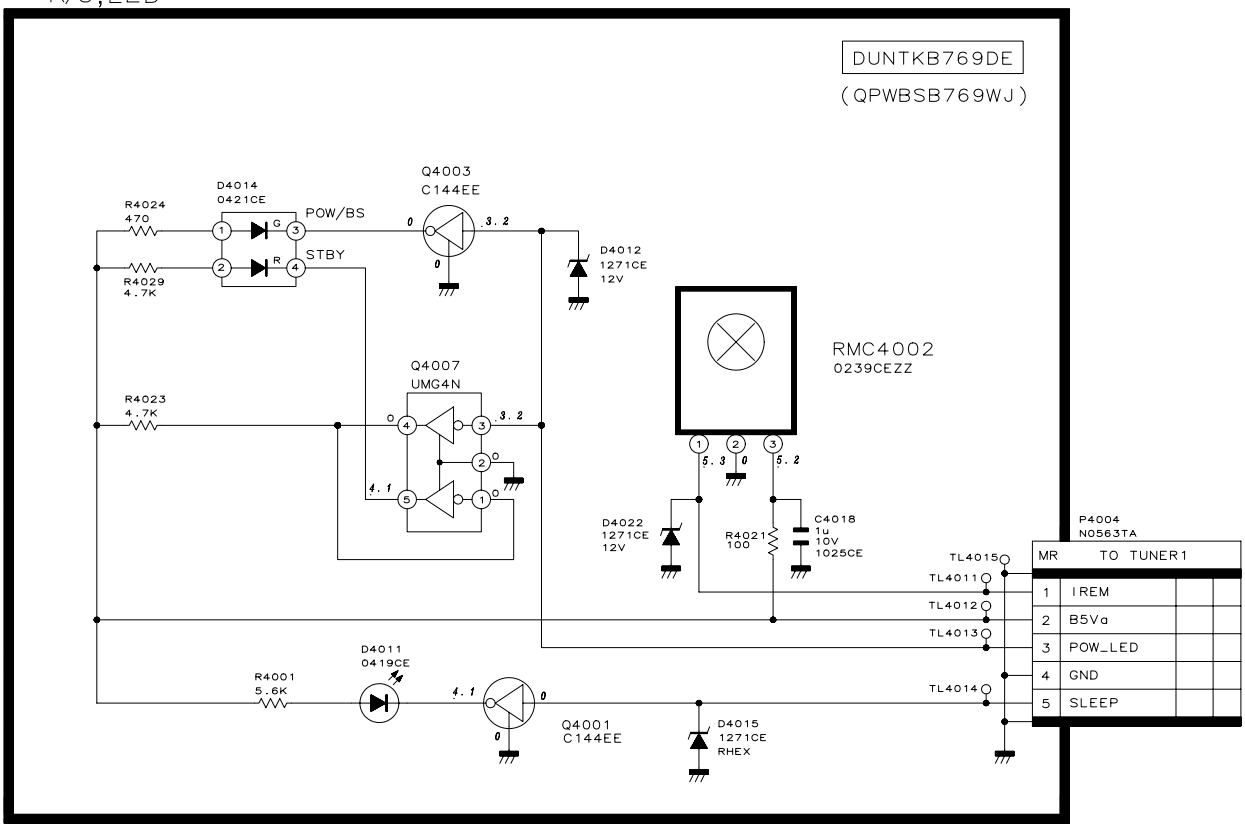
IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

AVIS DE SECURITE IMPORTANT:
LES PIECES MARQUEES "⚠" ( )SONT IMPORTANTES POUR MAINTENIR LA SECURITE DE L'APPAREIL.
NE REMPLACER CES PIEDES QUE PAR DES PIECES DONT LE NUMERO EST SPECIFIE POUR MAINTENIR LA SECURITE ET PROTEGER LE BON FONCTIONNEMENT DE L'APPAREIL.

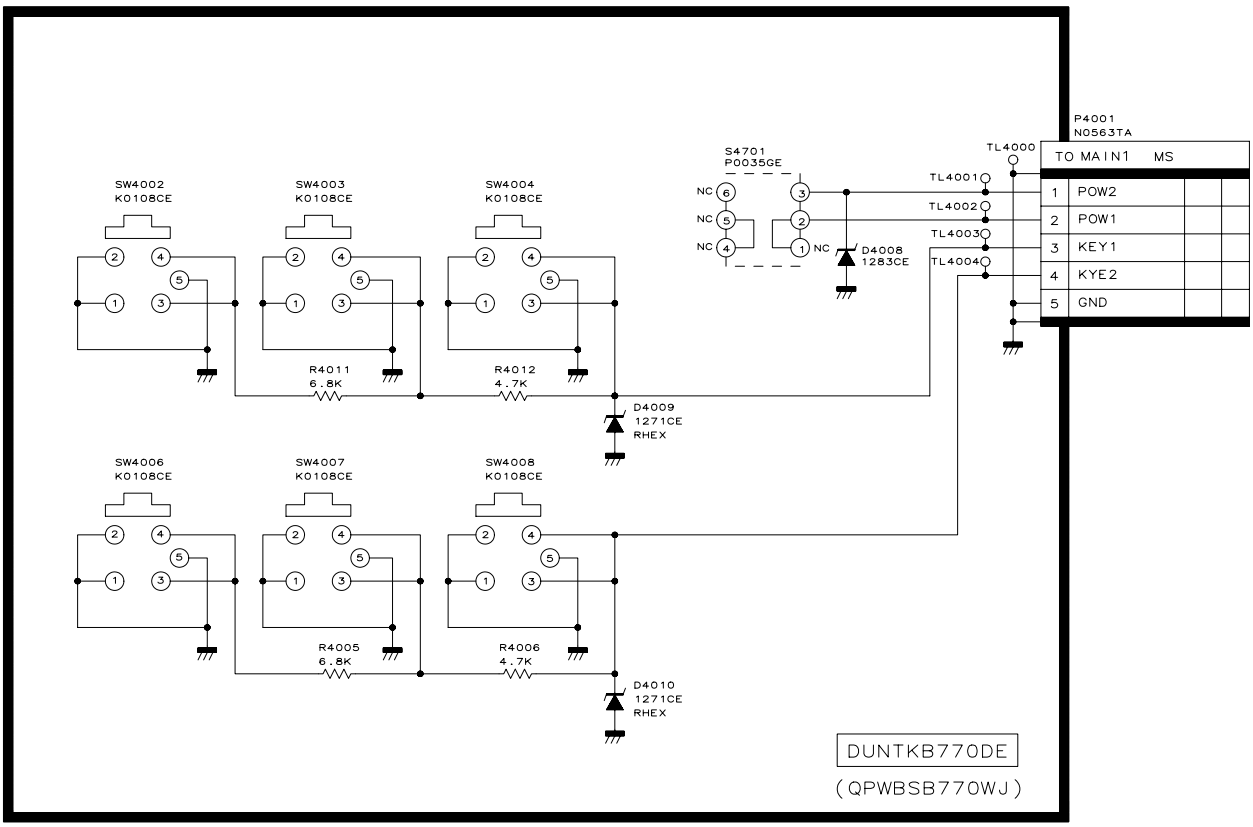
SCHEMATIC DIAGRAM

■ R/C, LED and OPERATION Unit

R/C, LED

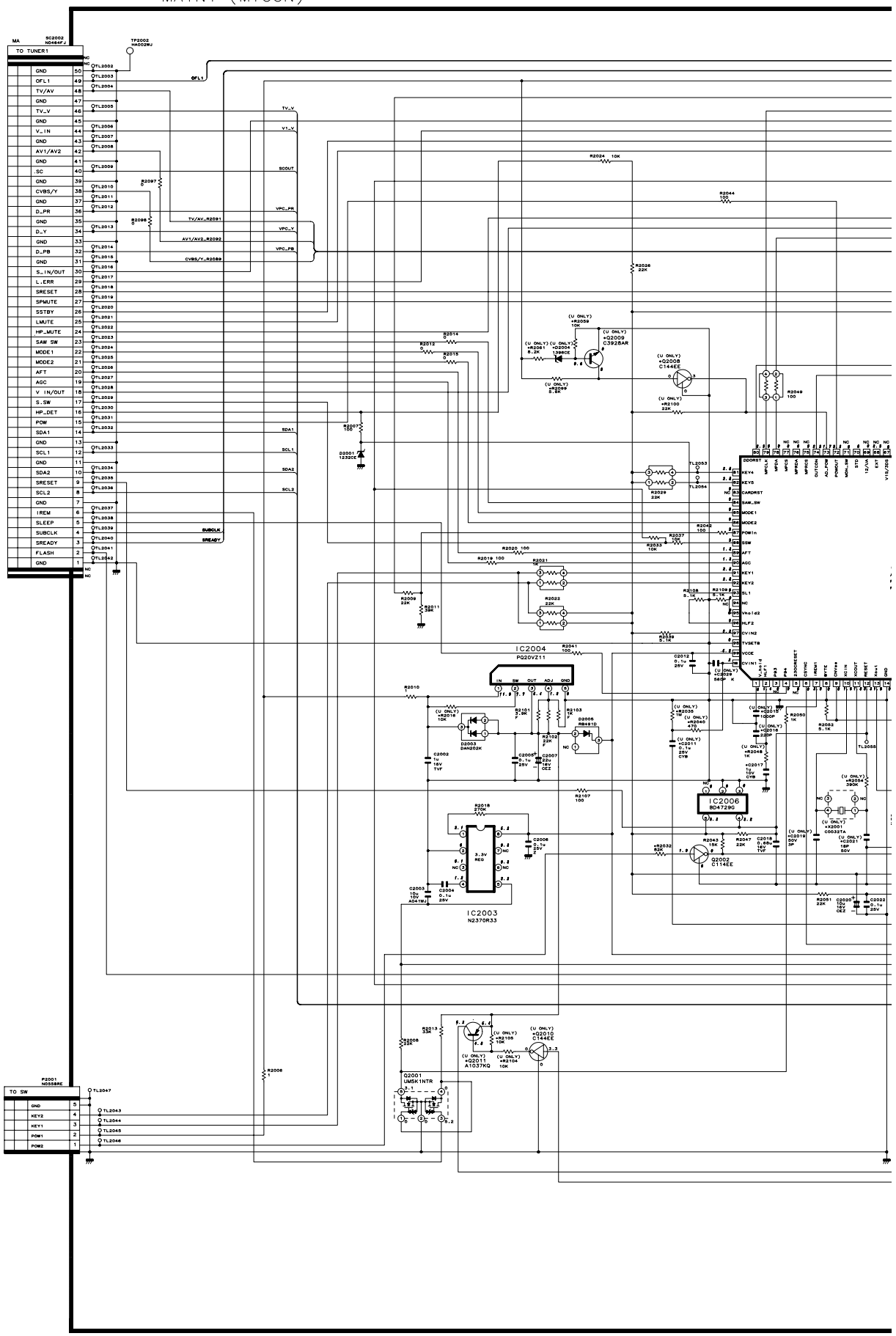


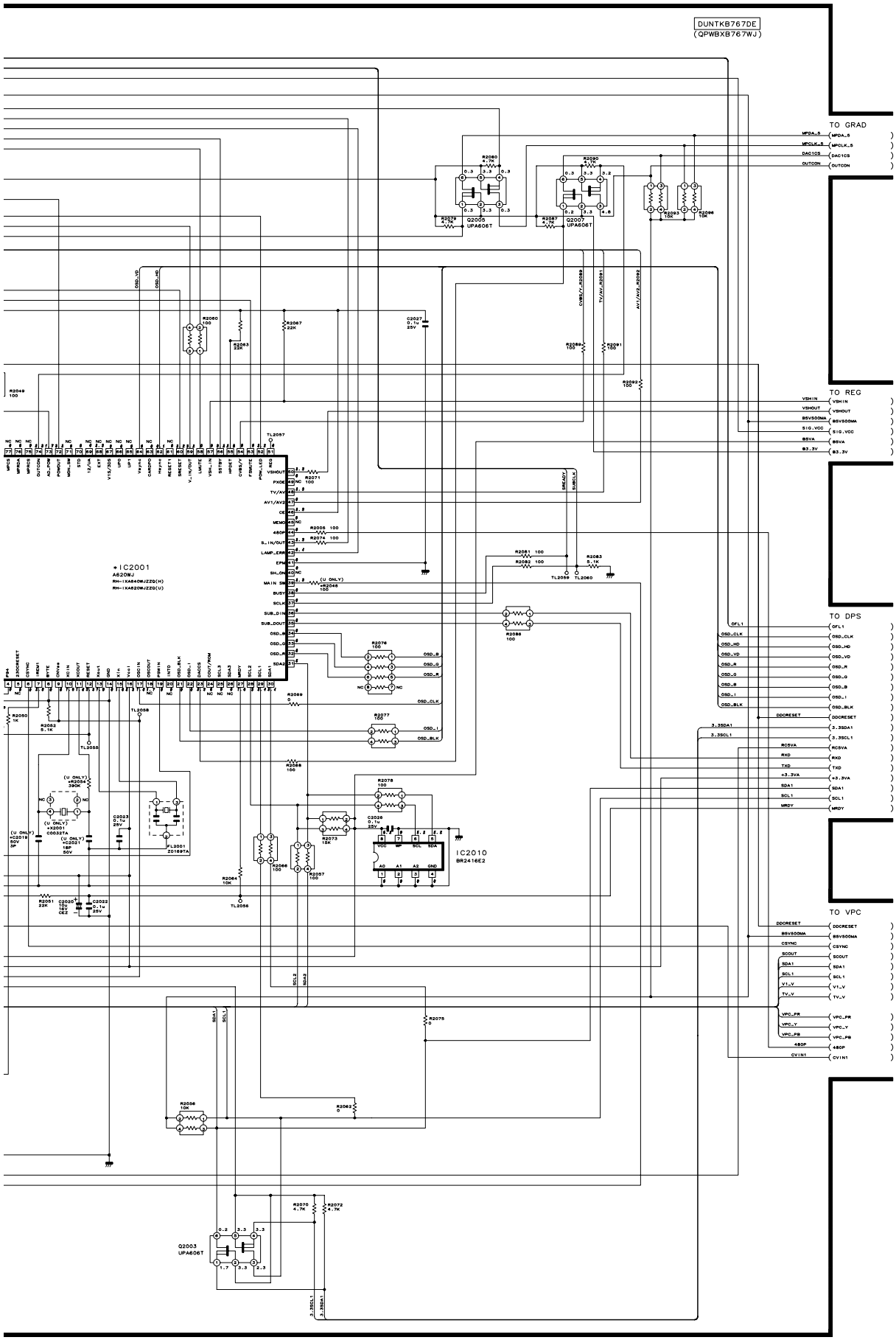
OPERATION



■ MAIN Unit-1/5

MAIN1 (MICON)

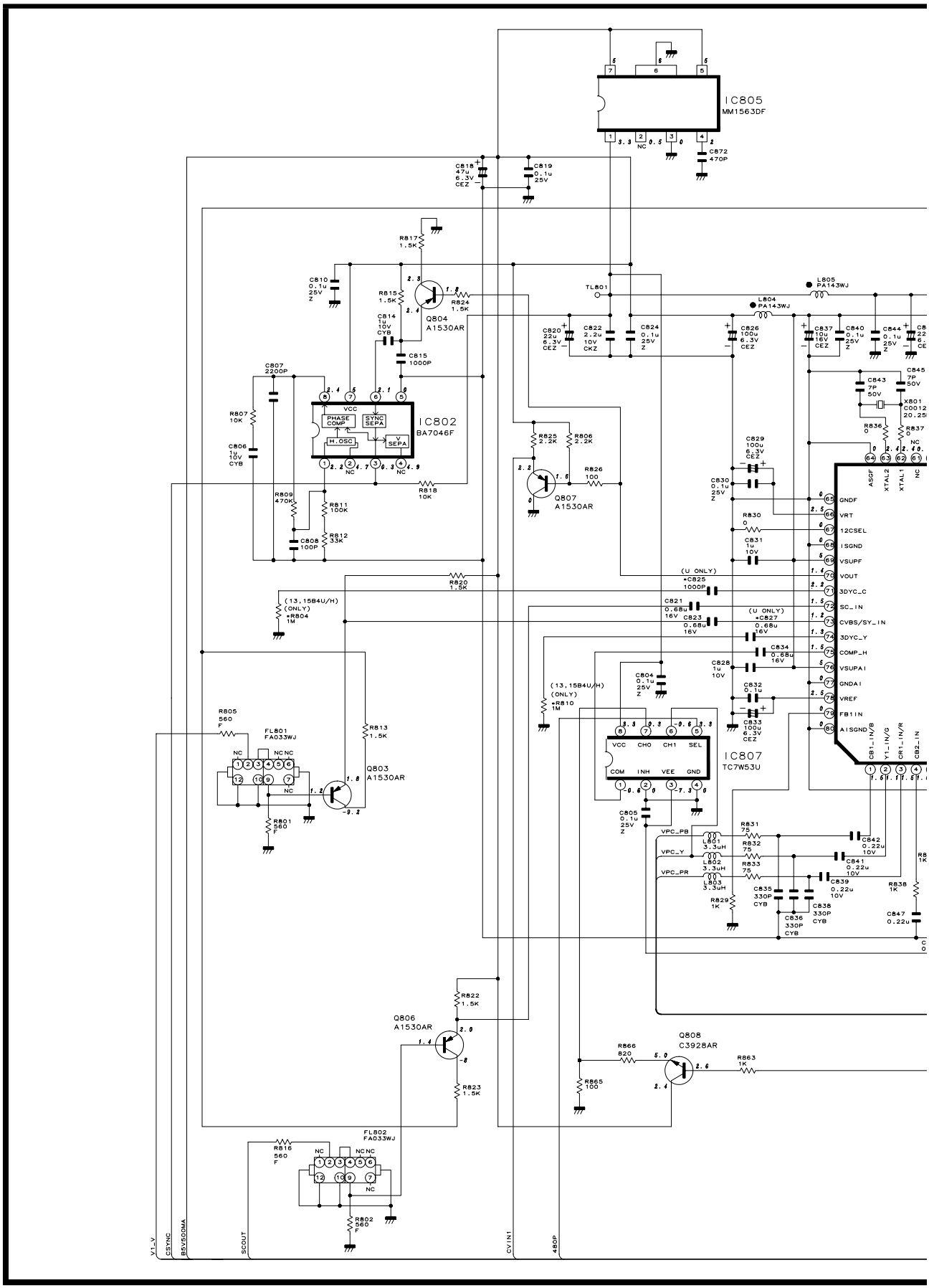


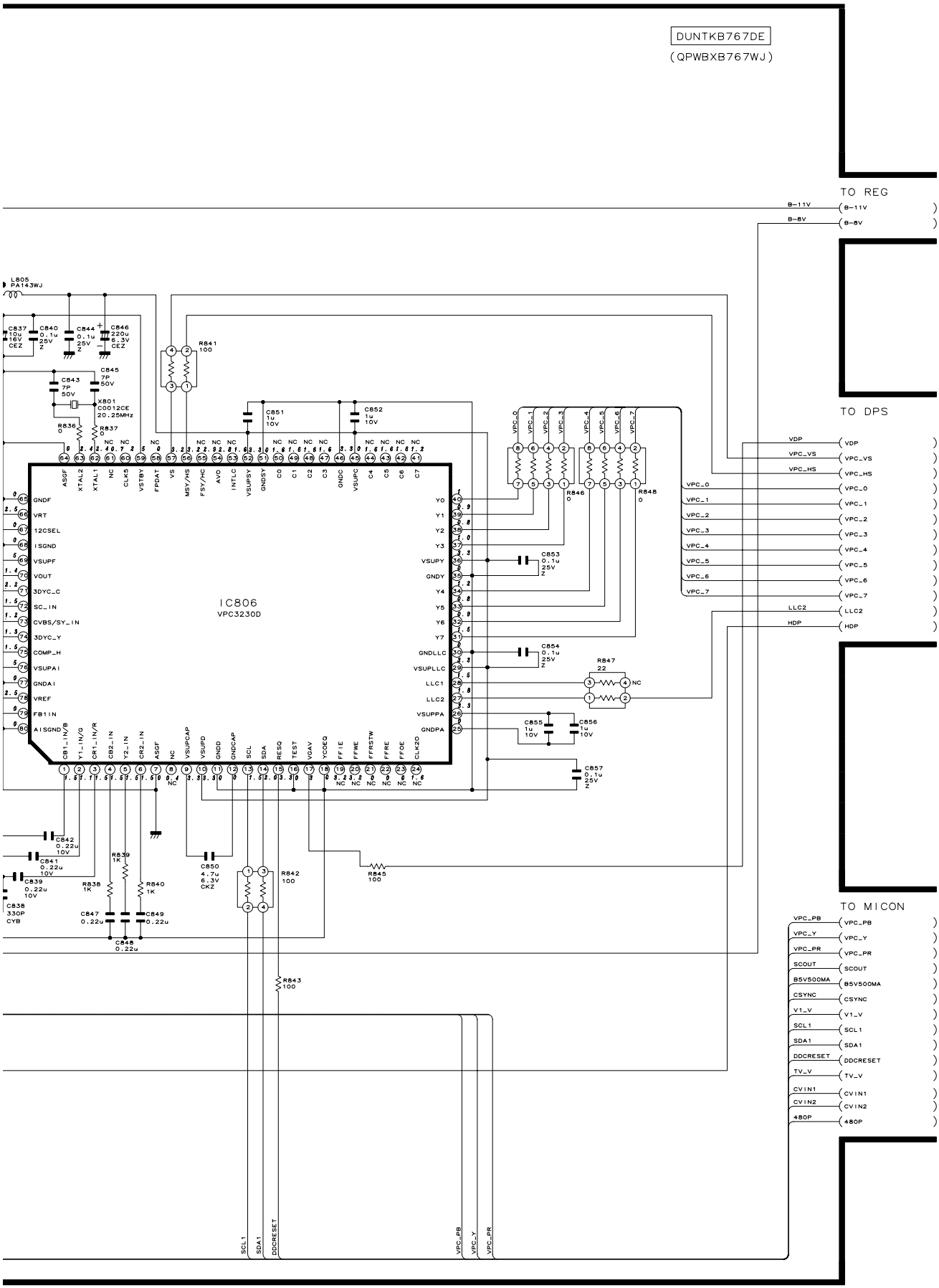


10	11	12	13	14	15	16	17	18	19

■ MAIN Unit-2/5

MAIN2 (VPC)





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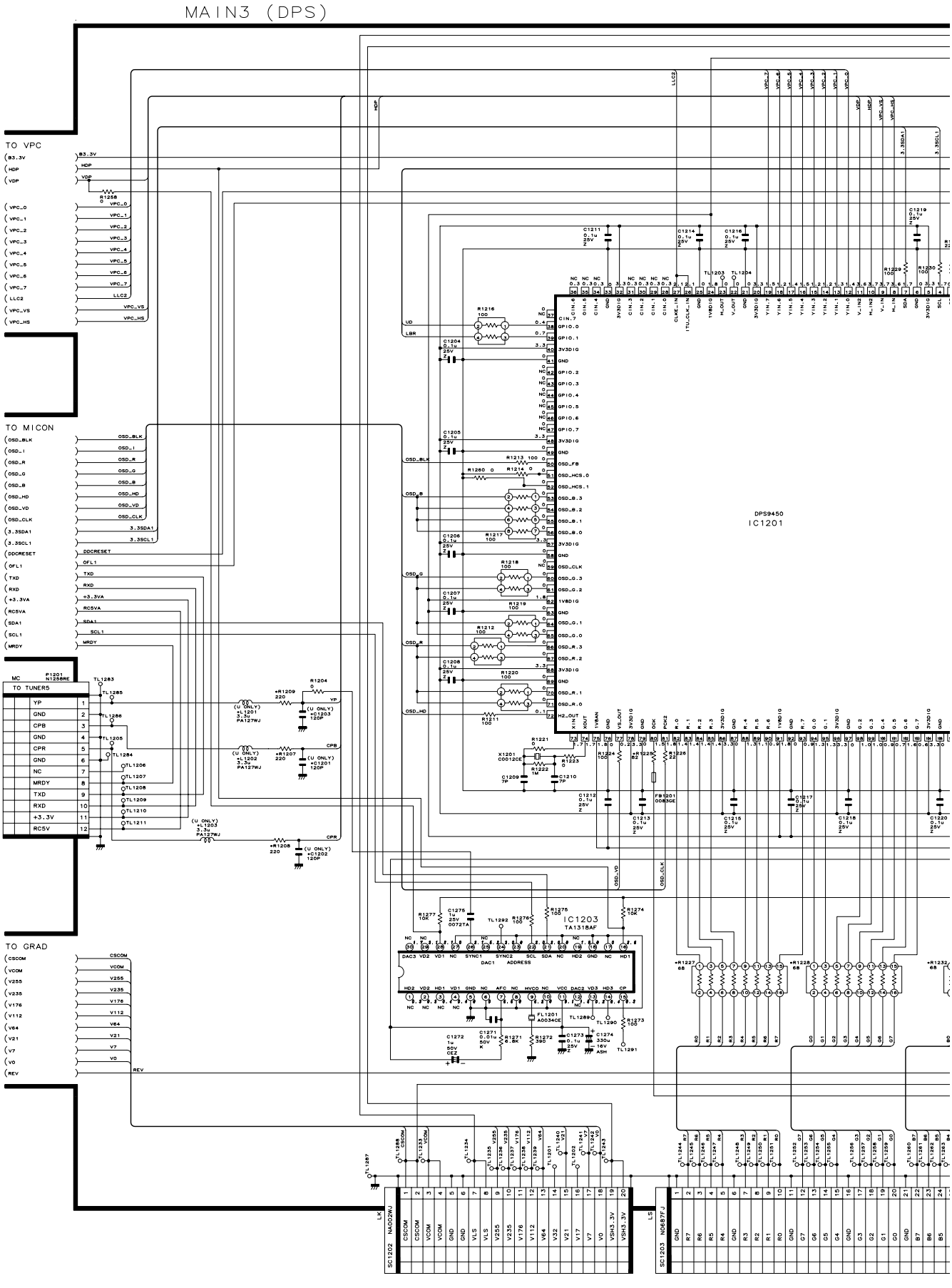
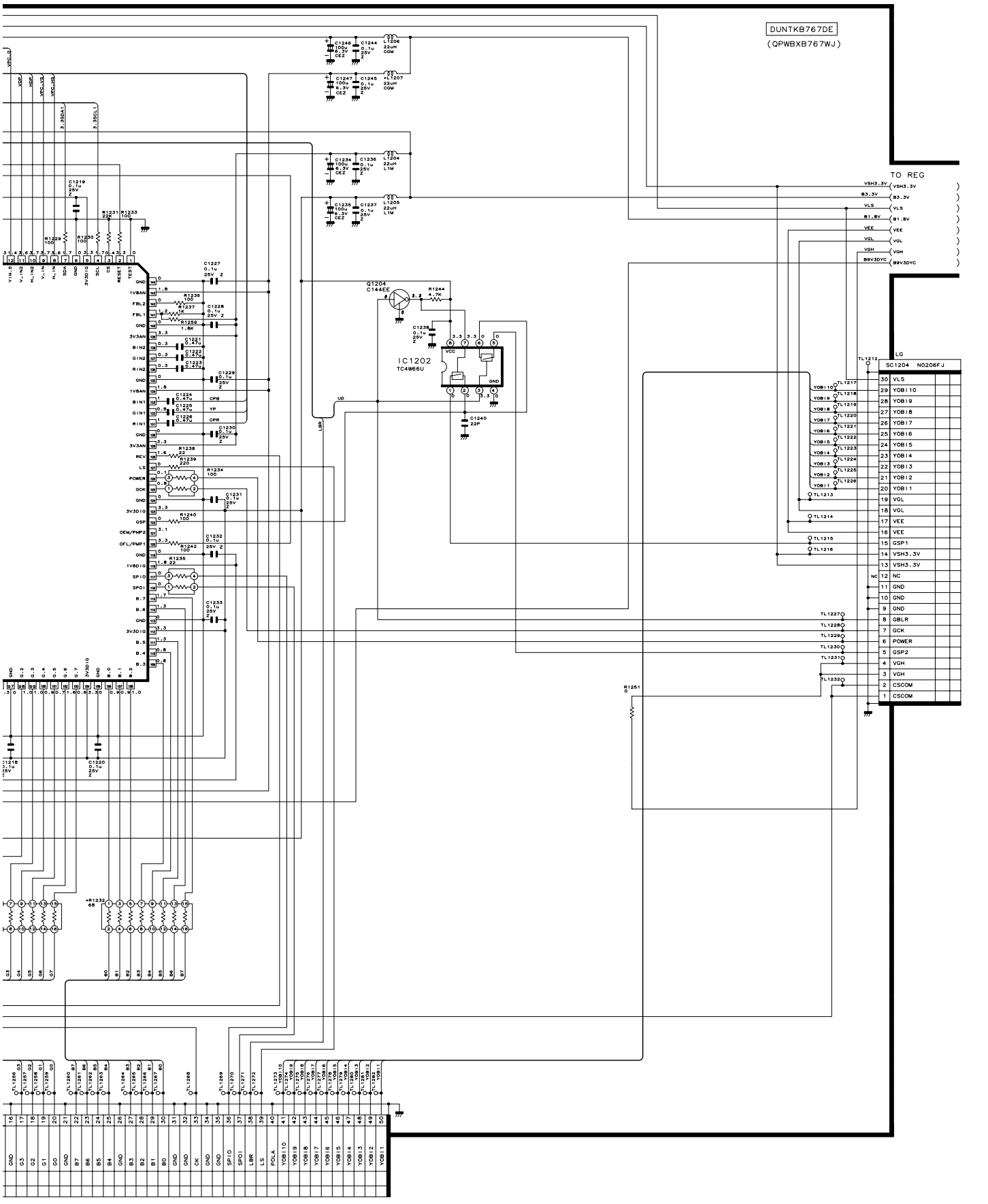
■ MAIN Unit-3/5

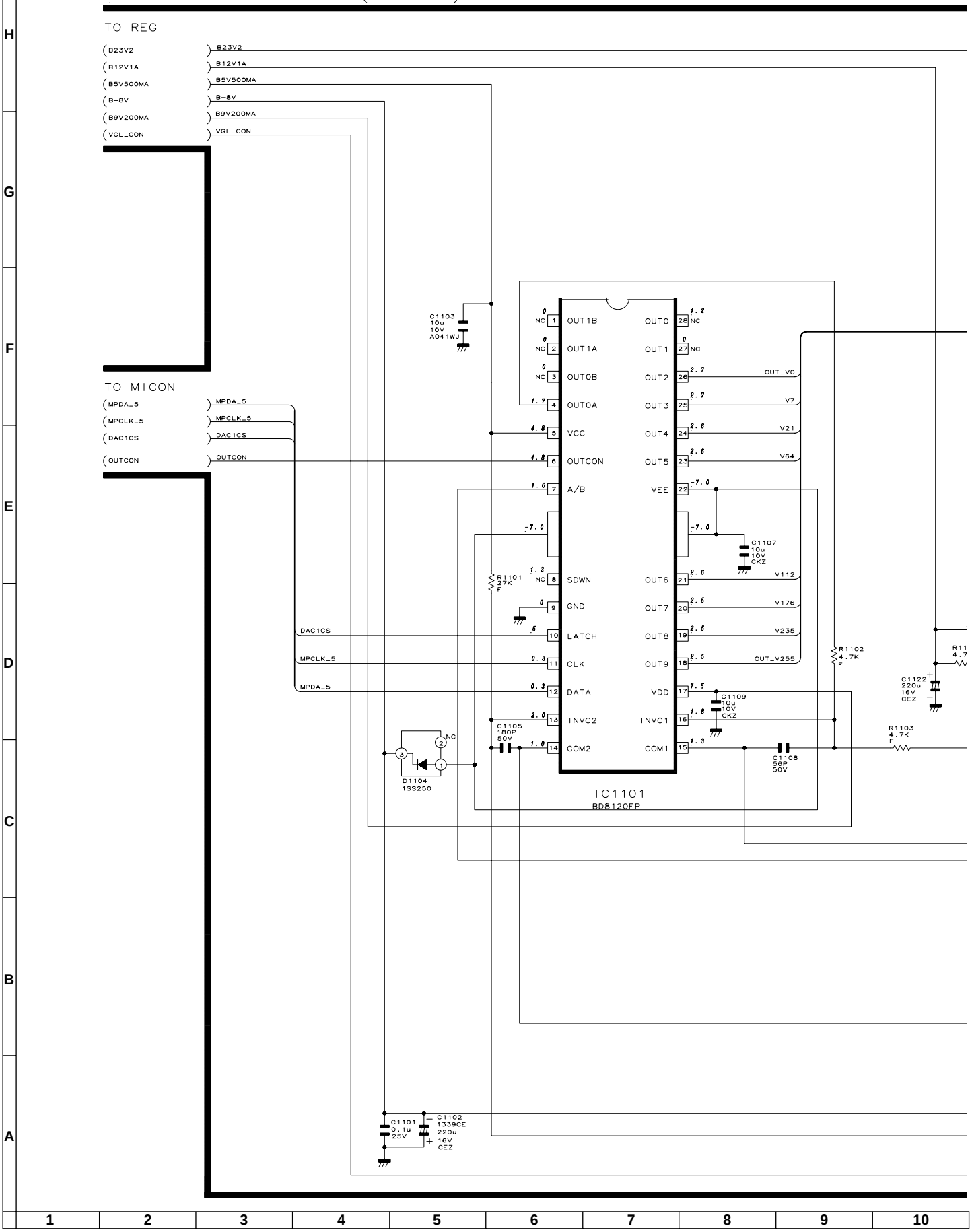

MAIN3 (DPS)
TO VPC
TO MICON
TO TUNER5
TO GRAD
DPS9450
IC1201
IC1203
TA1318AF
SC1202
SC1203



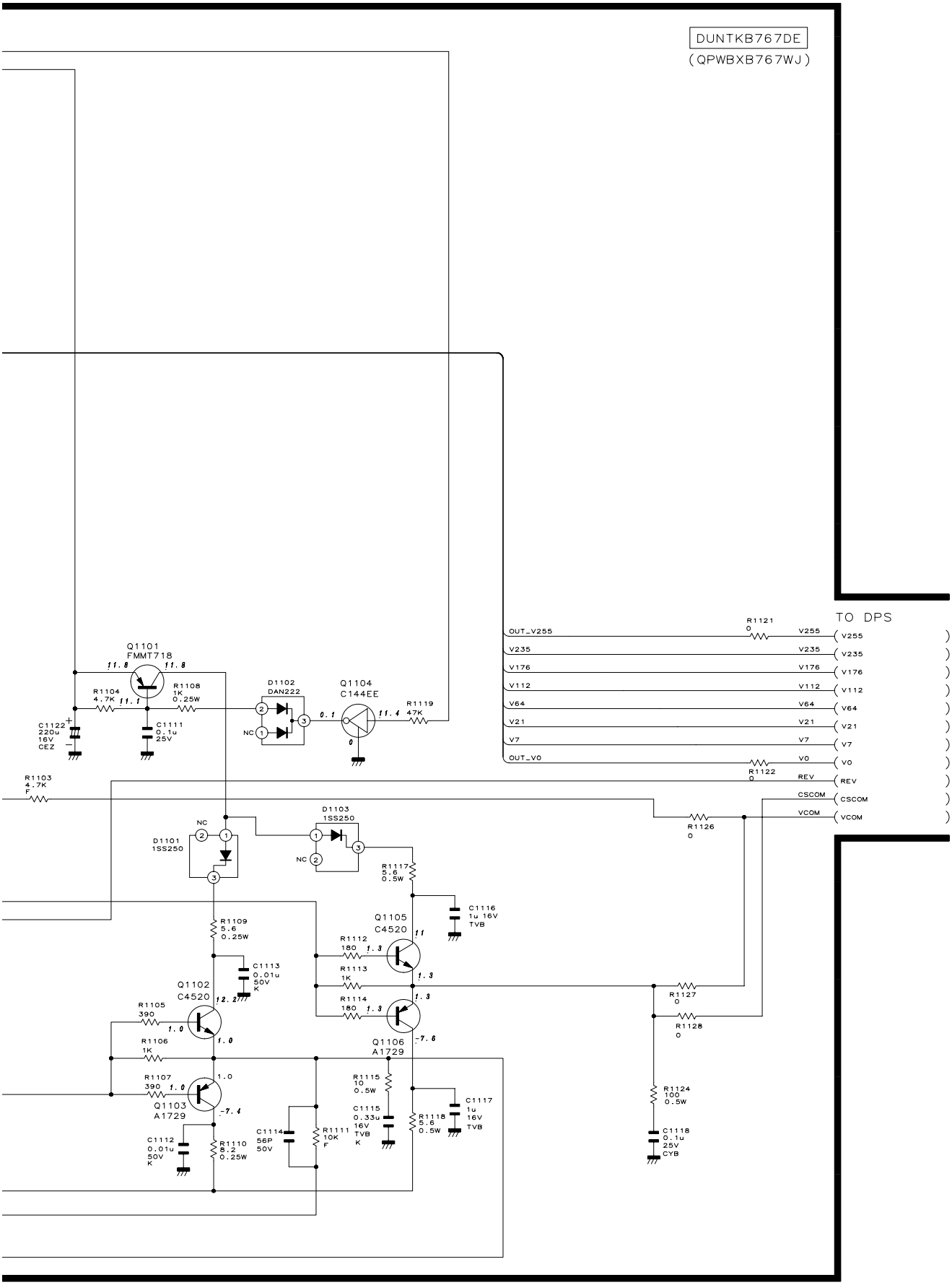
10	11	12	13	14	15	16	17	18	19

■ MAIN Unit-4/5

MAIN4 (GRAD)



DUNTKB767DE
(QPWBXB767WJ)



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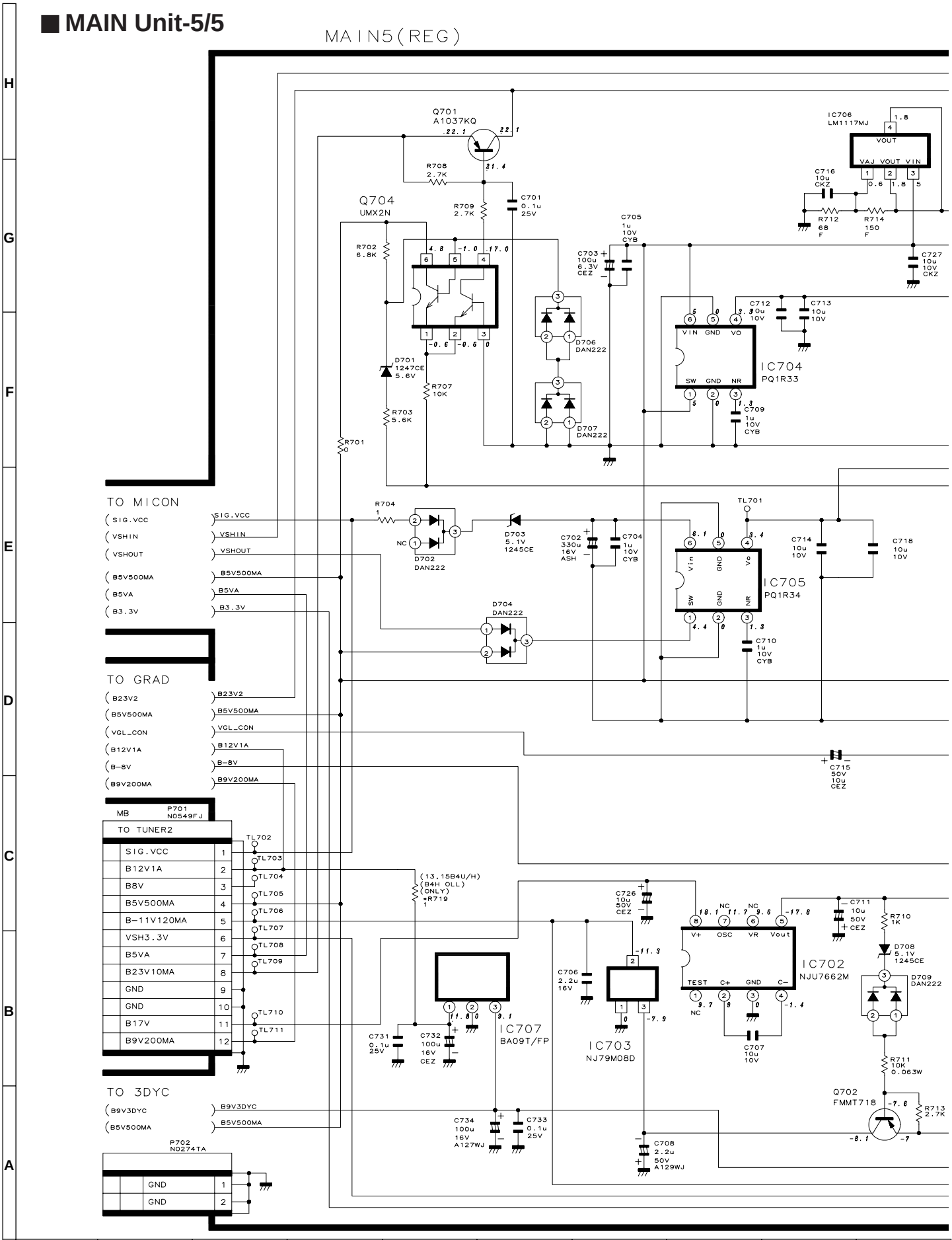
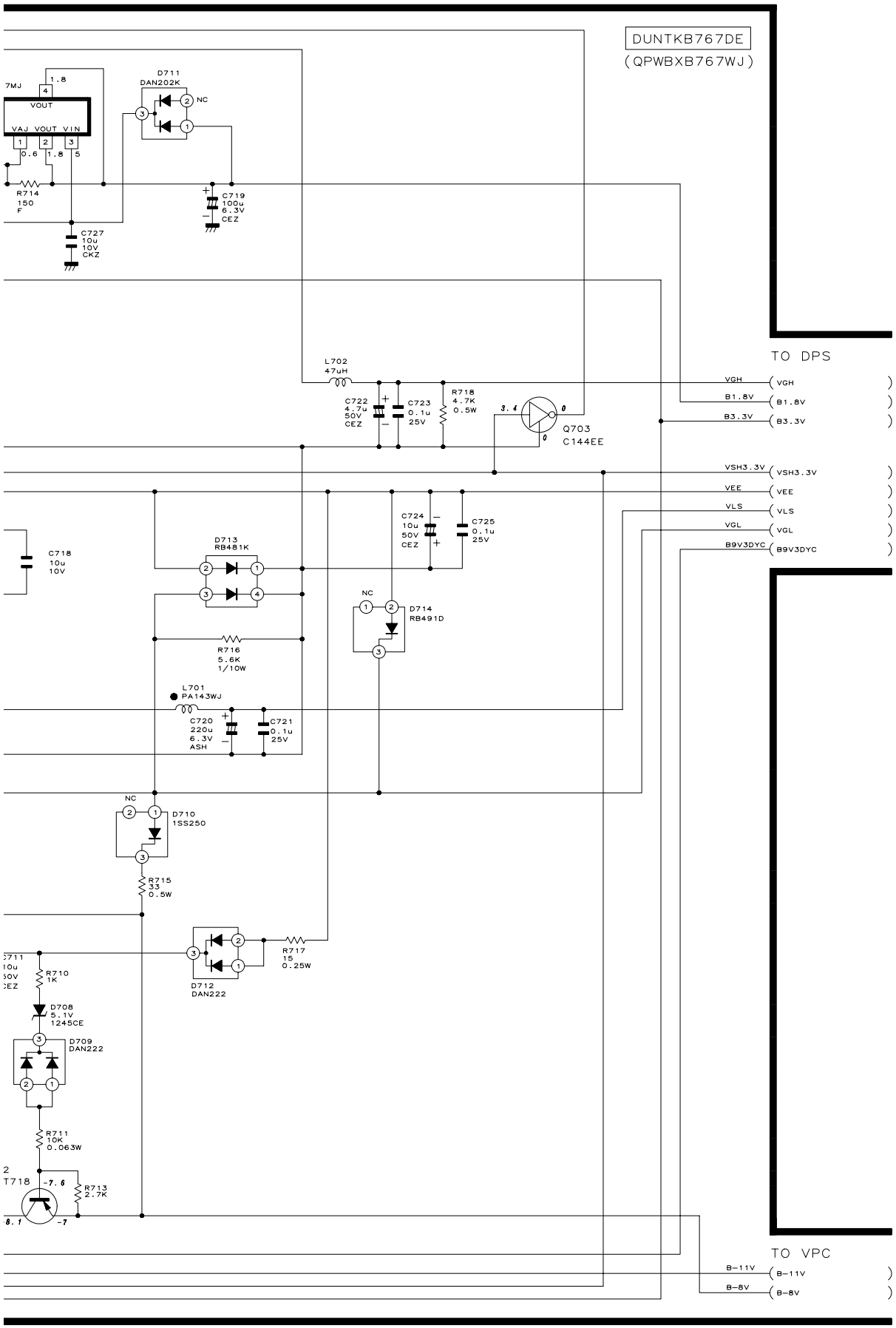
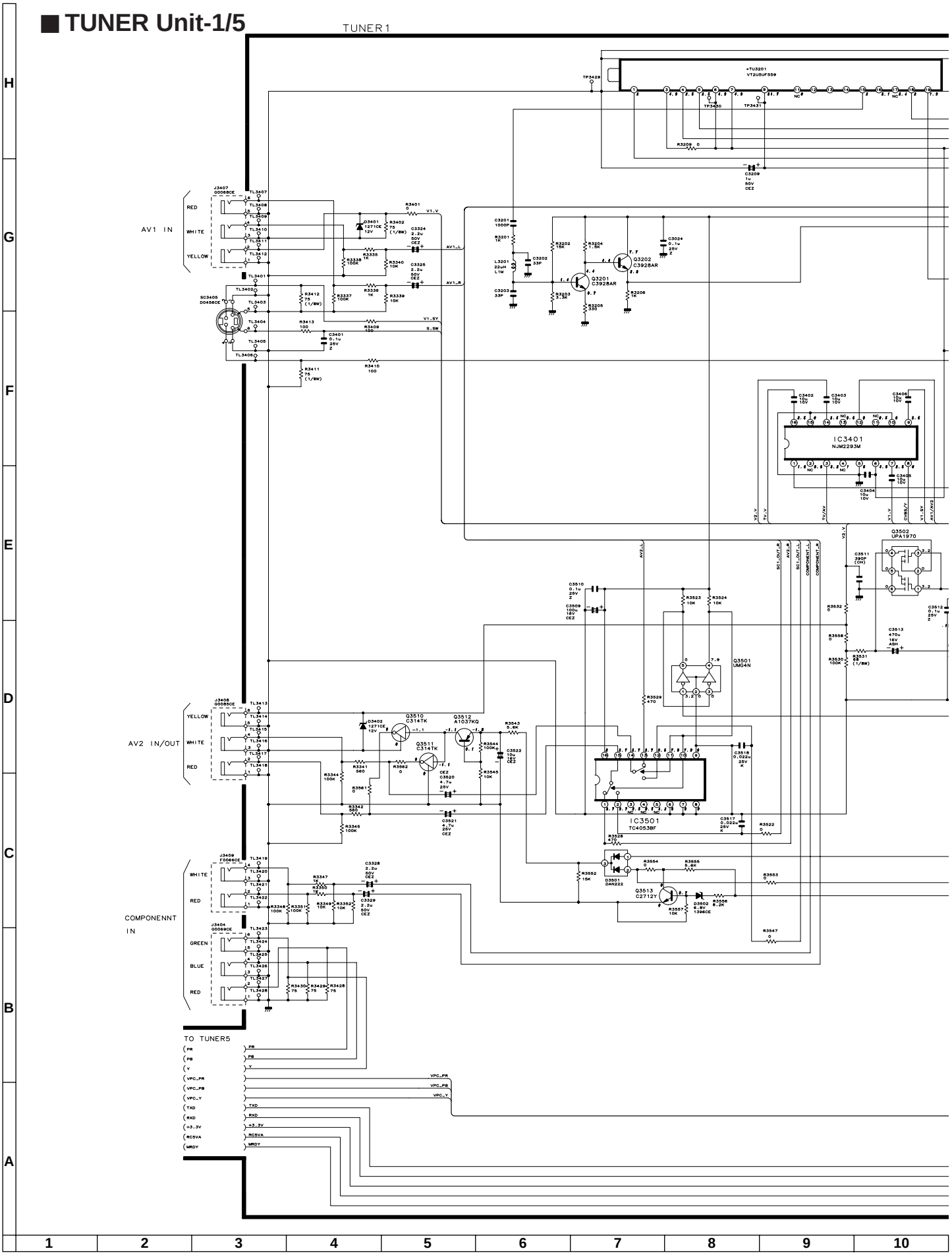
■ MAIN Unit-5/5

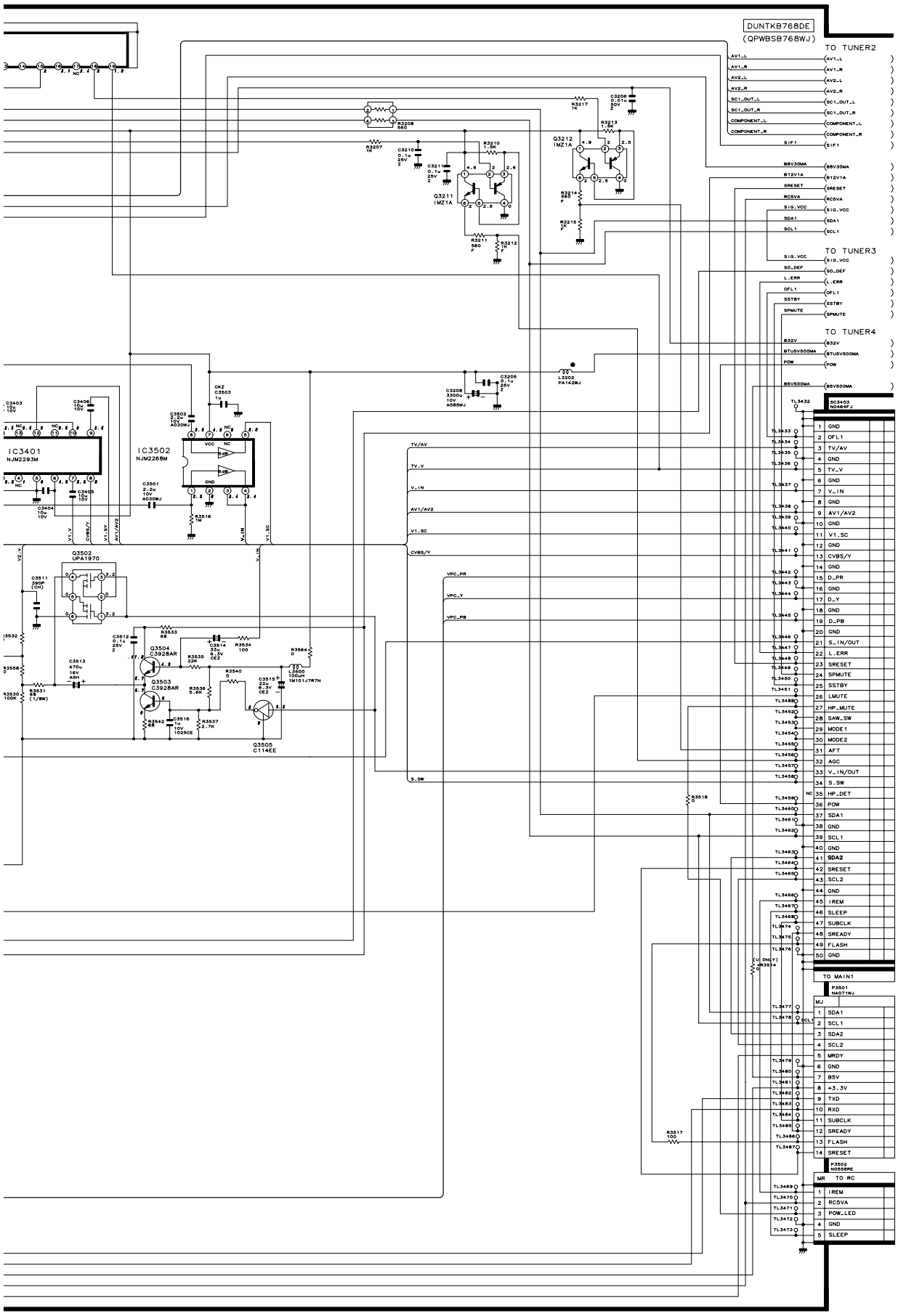

MAIN5(REG)
TO MICON
SIG.VCC
VSHIN
VSHOUT
B5V500MA
B5VA
B3.3V
TO GRAD
B23V2
B5V500MA
VGL_CON
B12V1A
B-8V
B9V200MA
MB
P701
N0549FJ
TO TUNER2
SIG.VCC
B12V1A
B8V
B5V500MA
B-11V120MA
VSH3.3V
B5VA
B23V10MA
GND
GND
B17V
B9V200MA
TO 3DYC
B9V3DYC
B5V500MA
P702
N0274TA
GND
GND
Q701
A1037KQ
Q704
UMX2N
IC706
LM1117MJ
IC704
PQ1R33
IC705
PQ1R34
IC707
BA09T/FP
IC703
NJU79M08D
IC702
NJU7662M
Q702
FMMT718
D701
1247CE
5.6V
D702
DAN222
D703
5.1V
1245CE
D704
DAN222
D706
DAN222
D707
DAN222
D708
5.1V
1245CE
D709
DAN222
TL701
TL702
TL703
TL704
TL705
TL706
TL707
TL708
TL709
TL710
TL711
(13,15B4U/H)
(B4H OLL)
(ONLY)
R719
1
R701
0
R702
6.8K
R703
5.6K
R704
1
R707
10K
R708
2.7K
R709
2.7K
R710
1K
R711
10K
0.063W
R712
68
F
R713
2.7K
R714
150
F
C701
0.1u
25V
C702
330u
16V
ASH
C703
100u
6.3V
CEZ
C704
1u
10V
CYB
C705
1u
10V
CYB
C706
2.2u
16V
C707
10u
10V
C708
2.2u
50V
A129WJ
C709
1u
10V
CYB
C710
1u
10V
CYB
C711
10u
50V
CEZ
C712
10u
10V
C713
10u
10V
C714
10u
10V
C715
50V
10u
CEZ
C716
10u
CKZ
C718
10u
10V
C726
10u
50V
CEZ
C727
10u
10V
CKZ
C731
0.1u
25V
C732
100u
16V
CEZ
C733
0.1u
25V
C734
100u
16V
A127WJ



10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-1/5

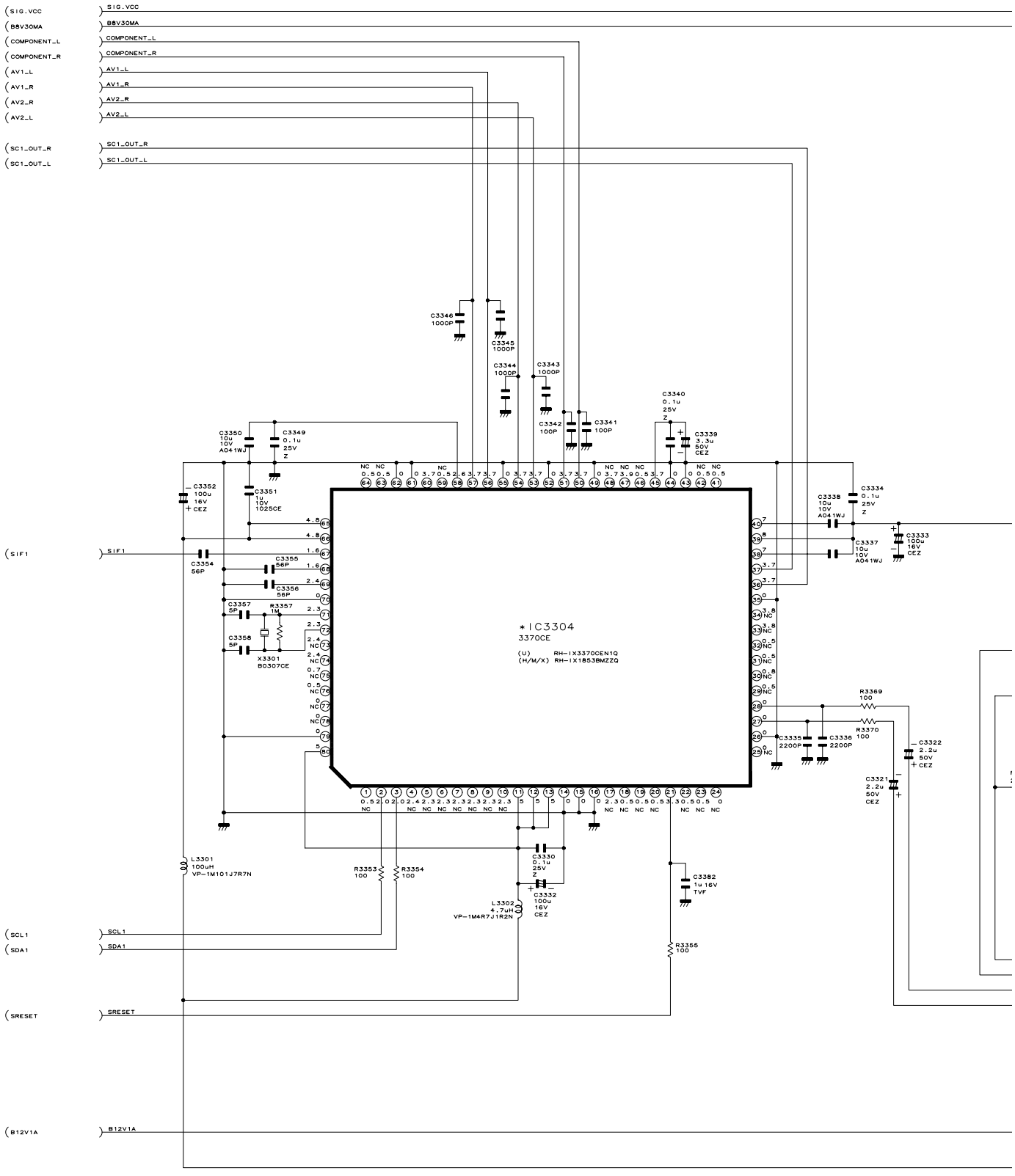




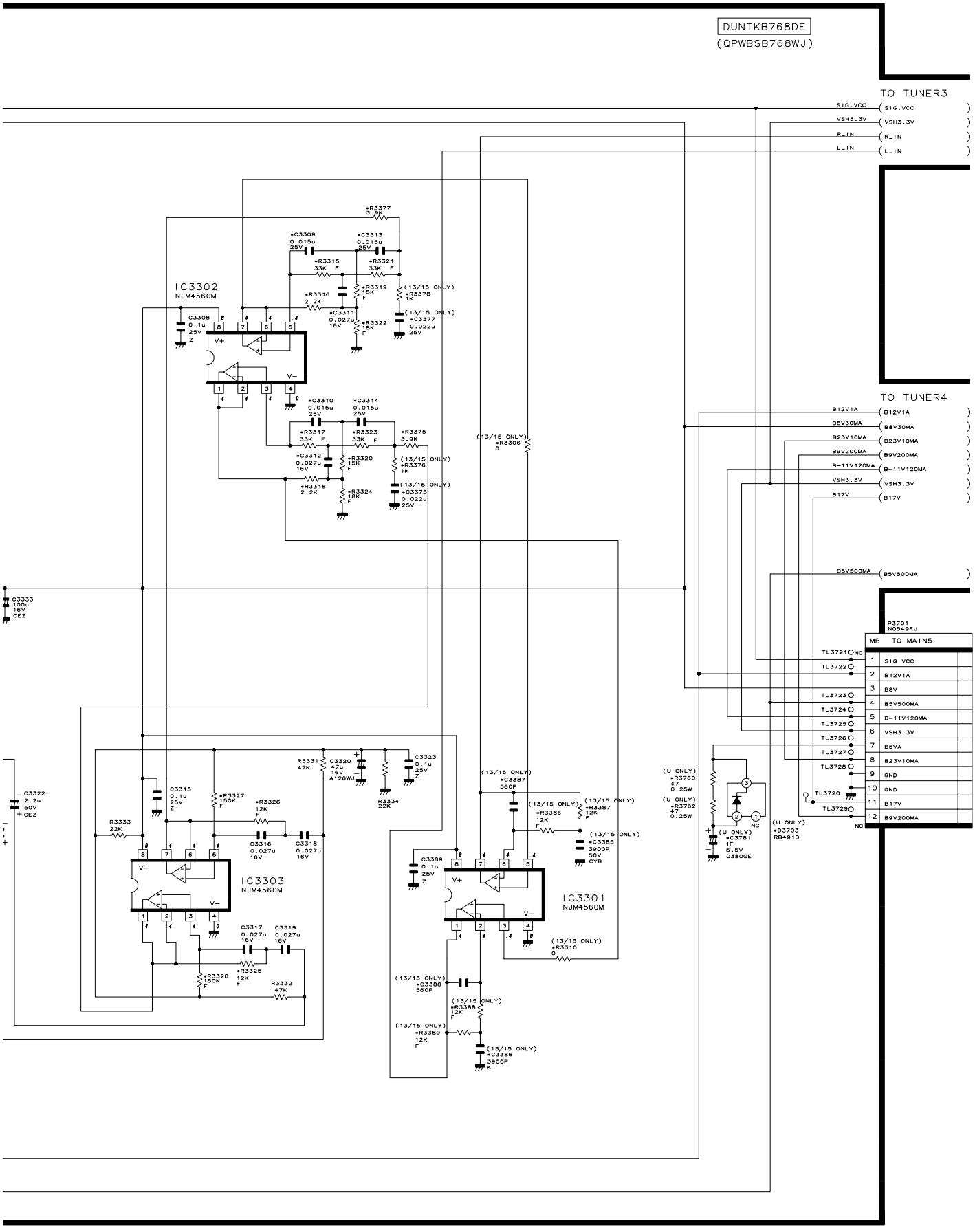
10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-2/5

TUNER2 (MSP)

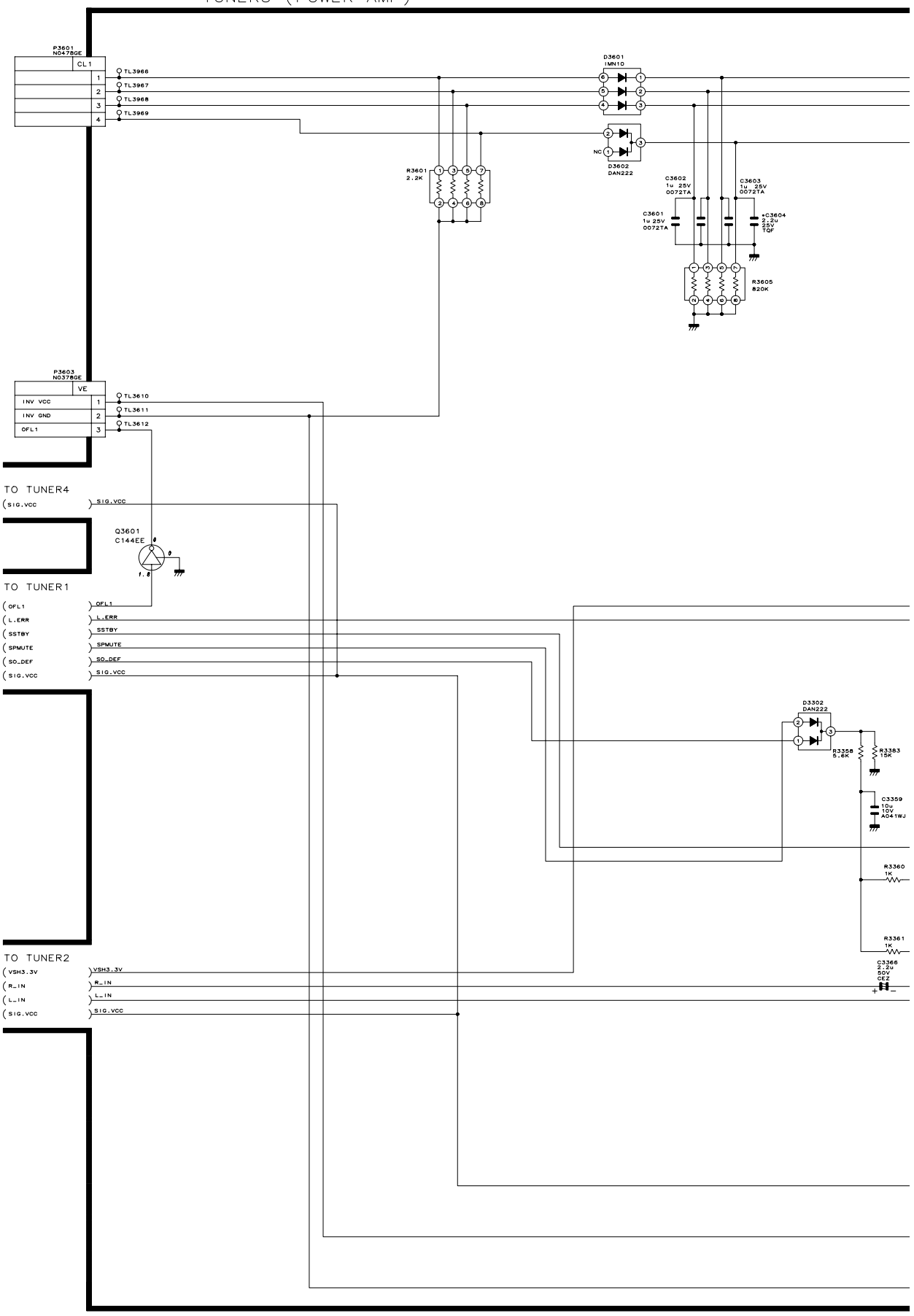


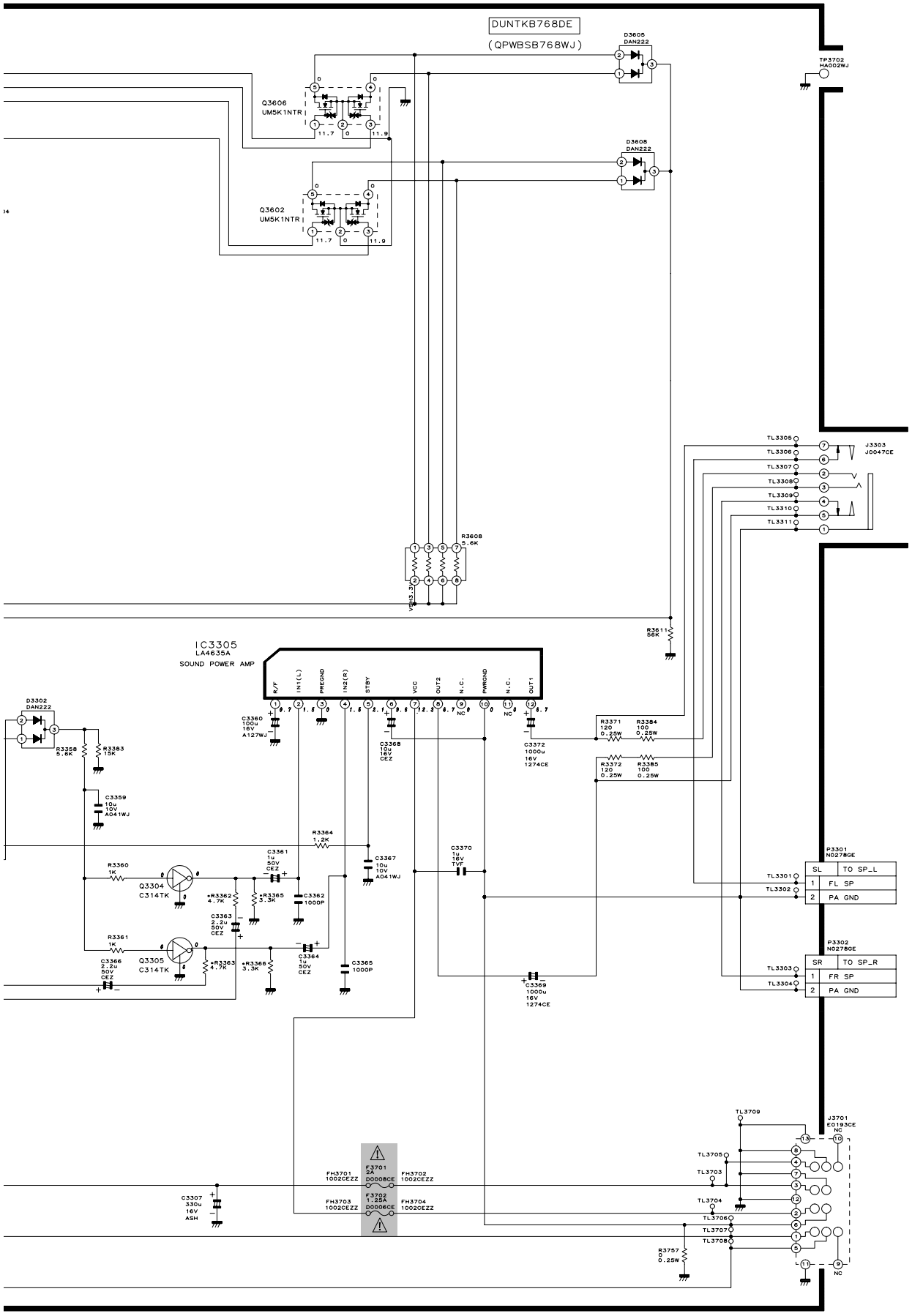
1	2	3	4	5	6	7	8	9	10



10	11	12	13	14	15	16	17	18	19

■ TUNER Unit-3/5





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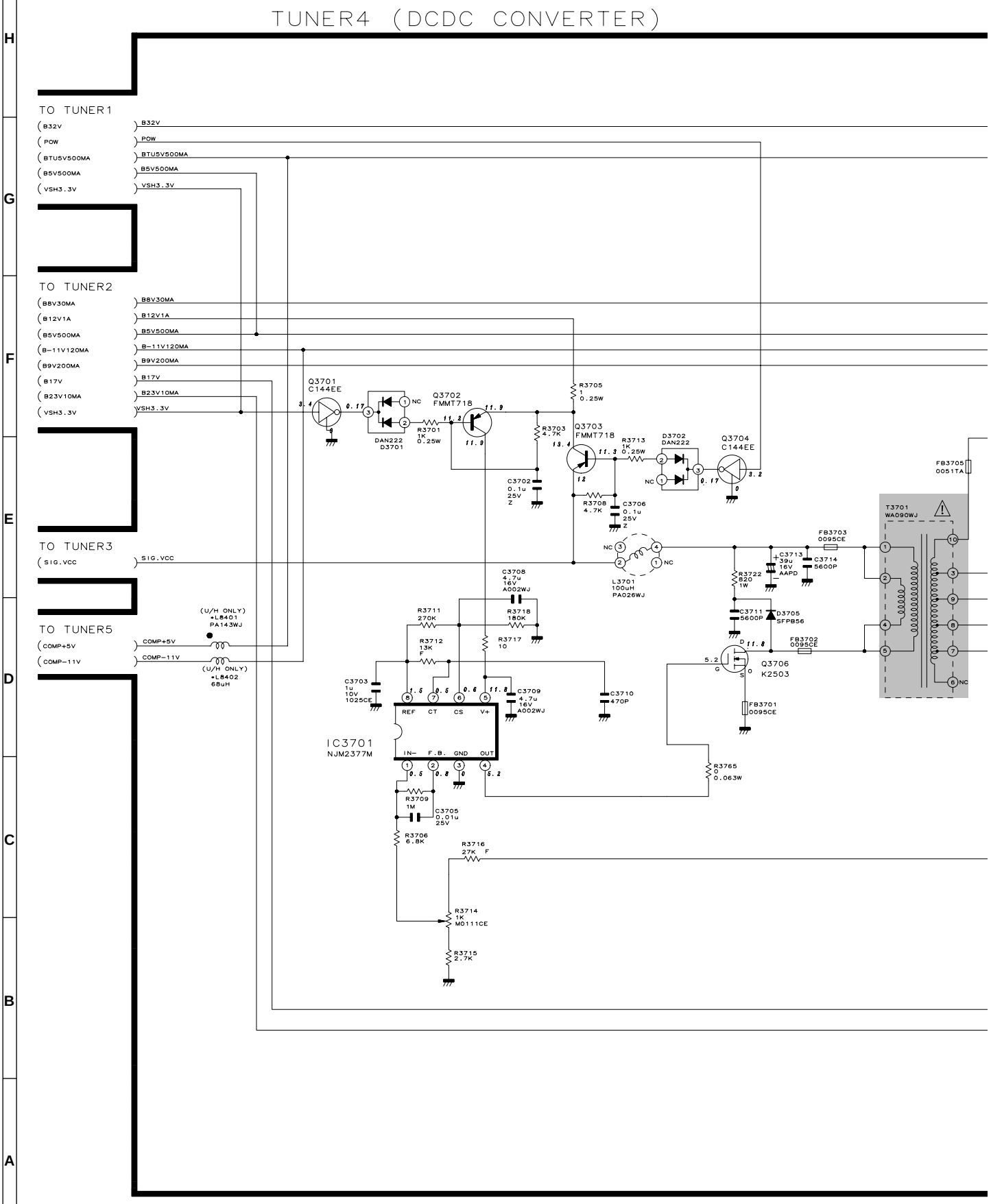
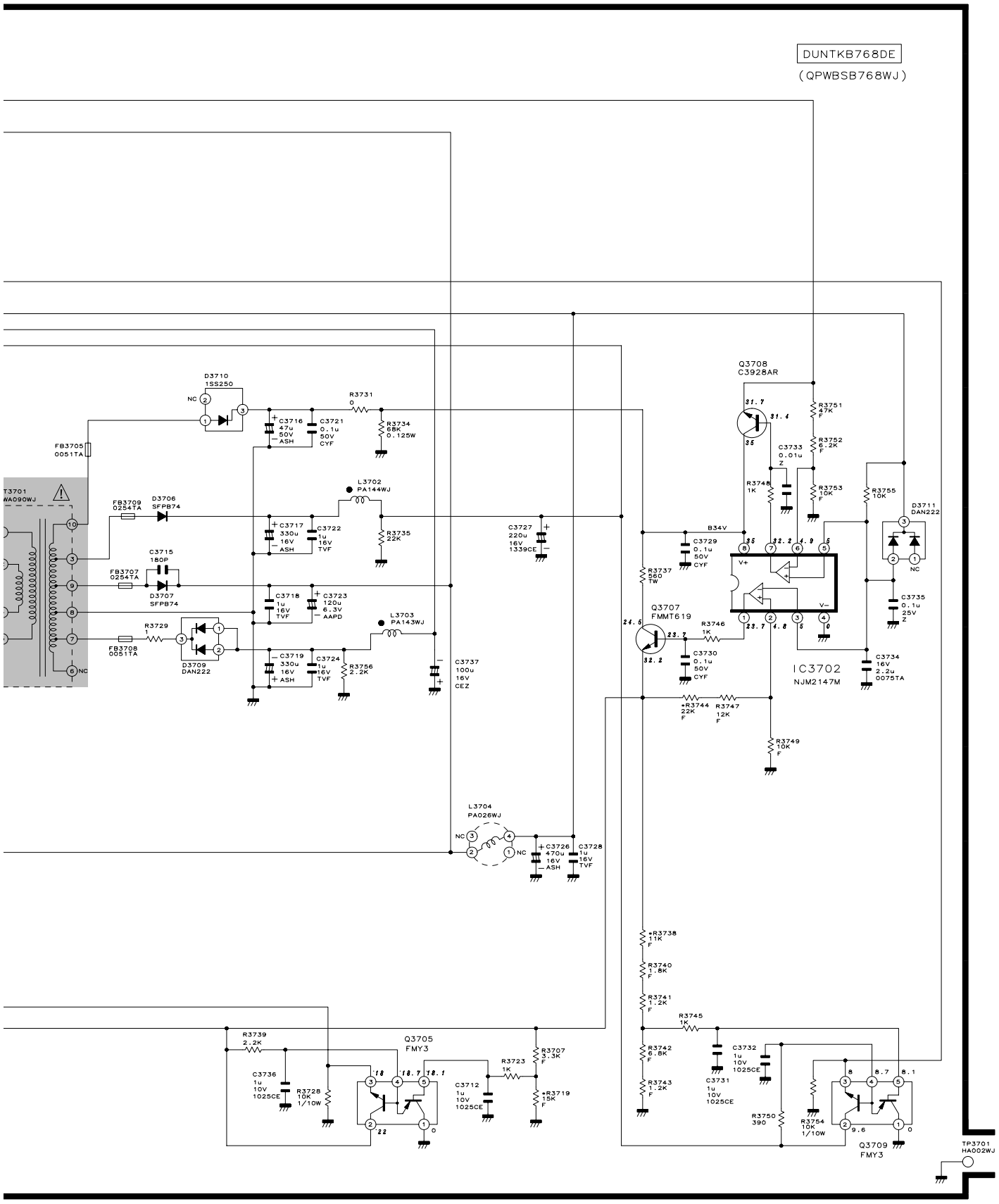
■ TUNER Unit-4/5





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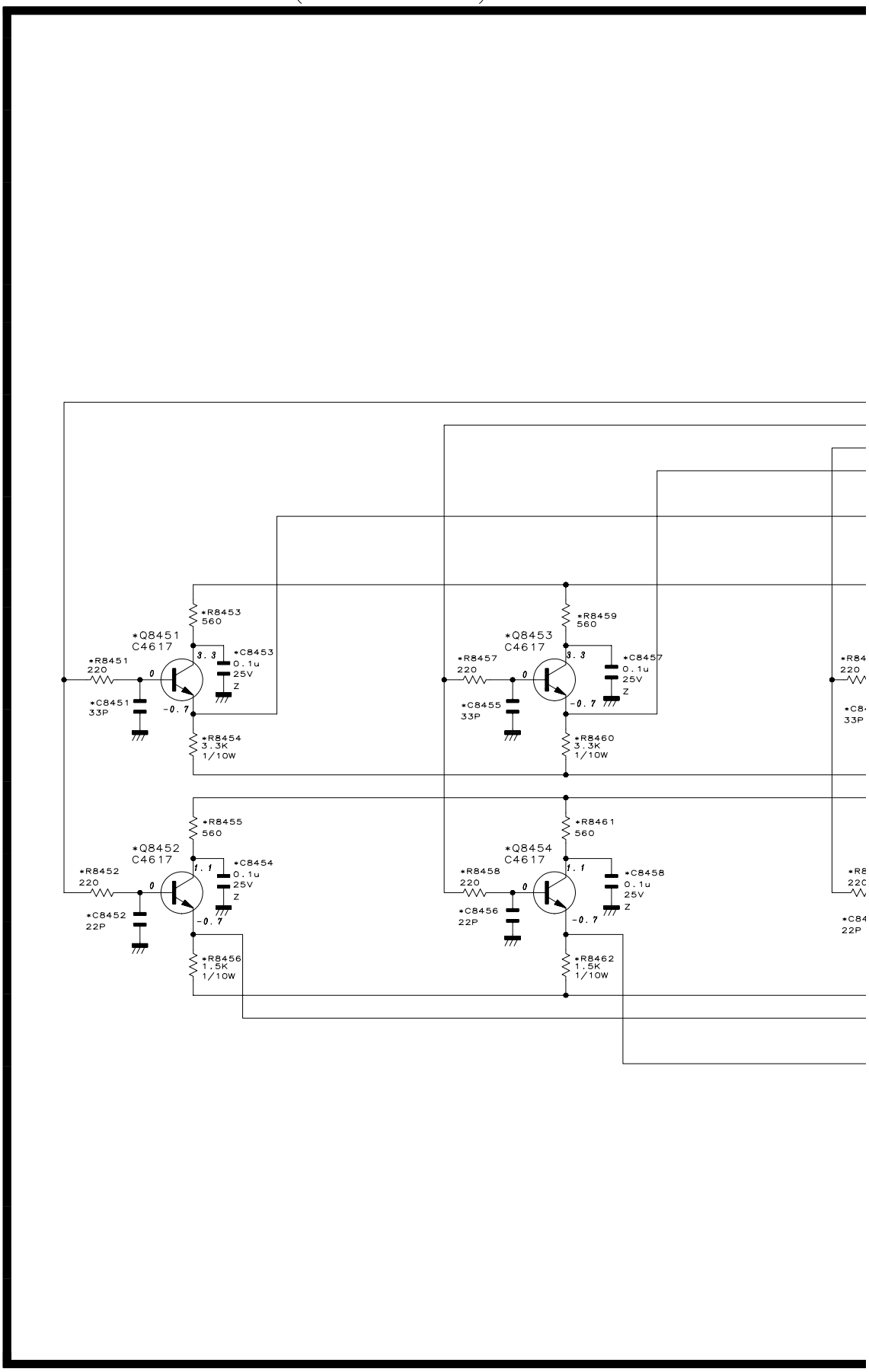
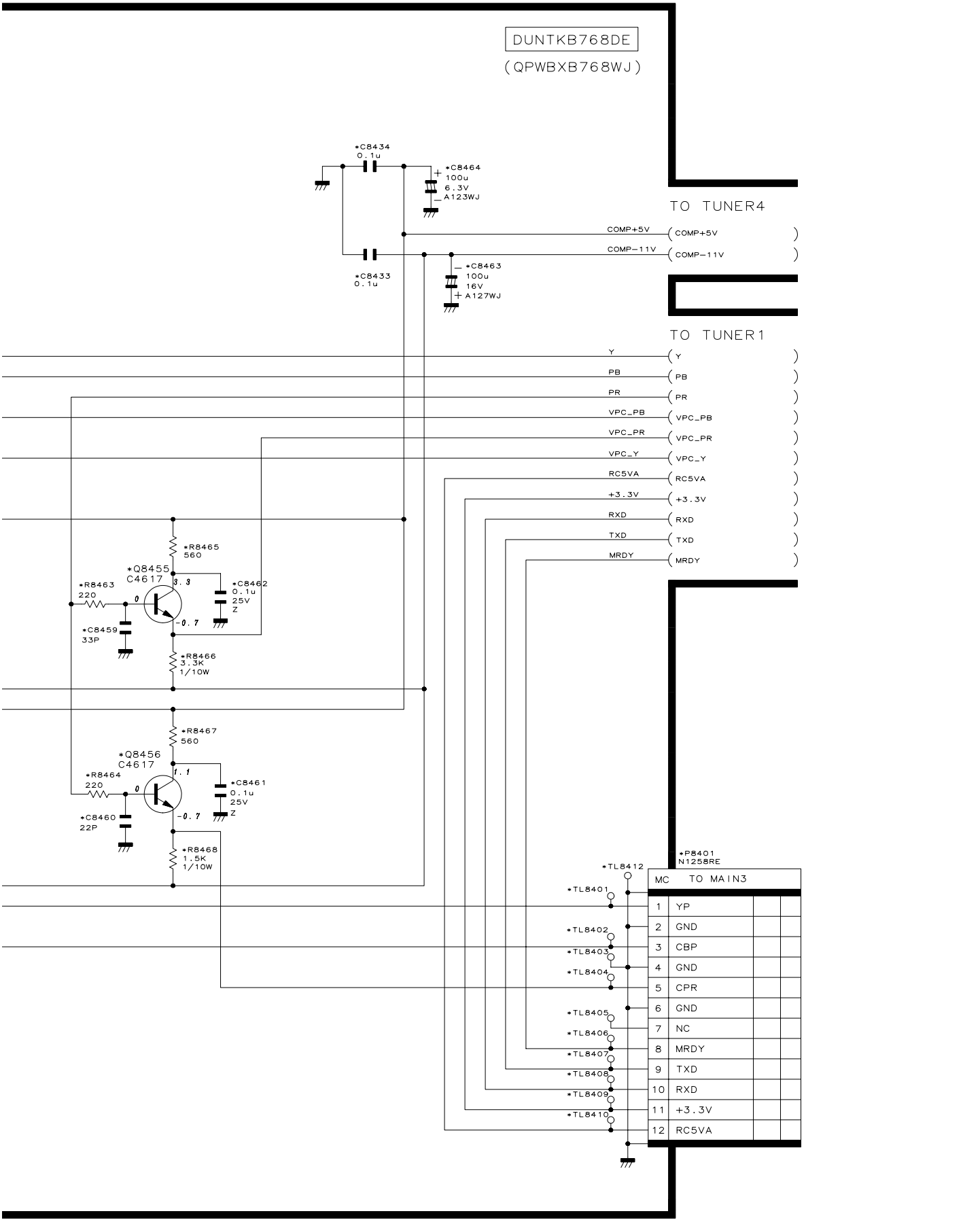
■ TUNER Unit-5/5

TUNER5 (COMPONENT)





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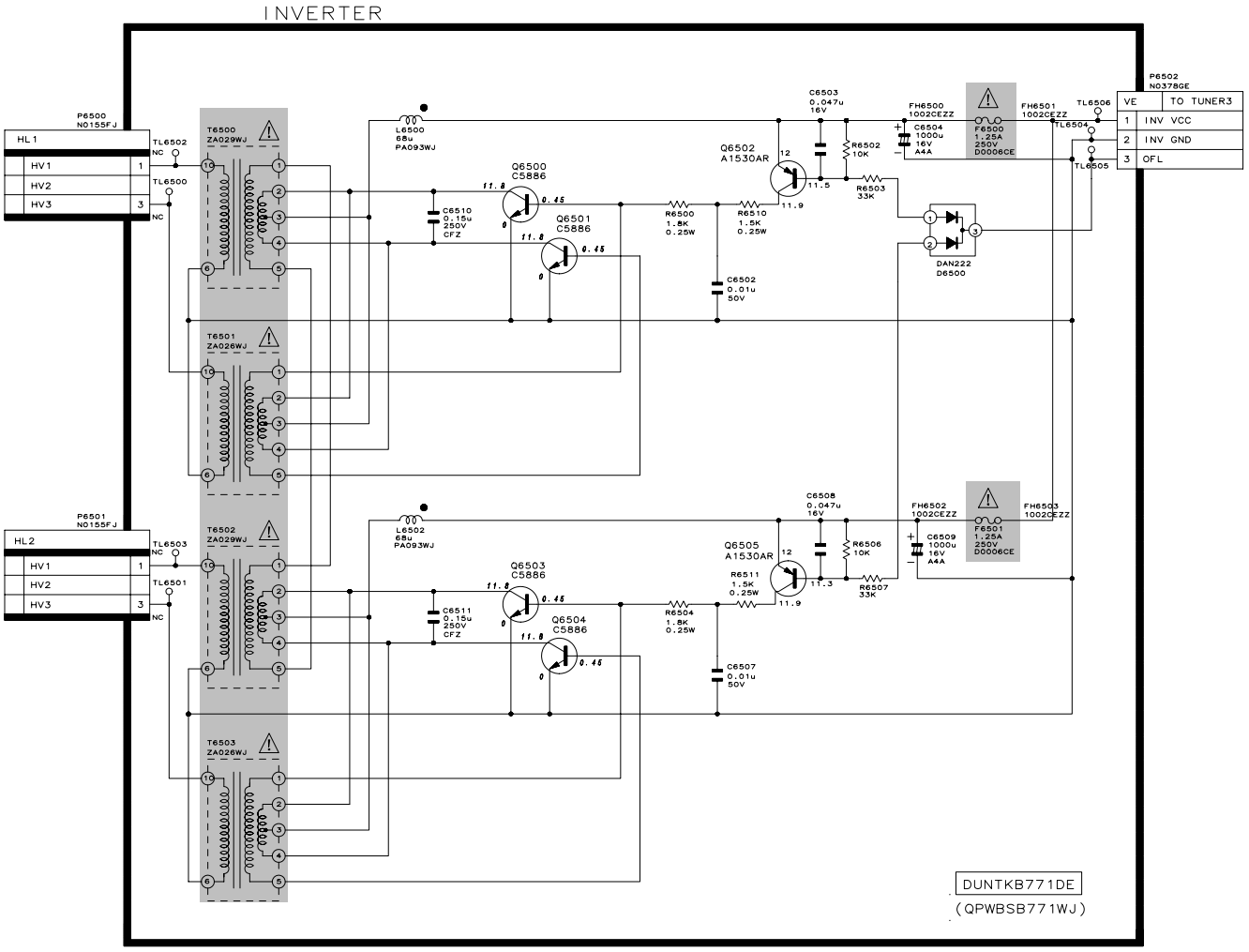
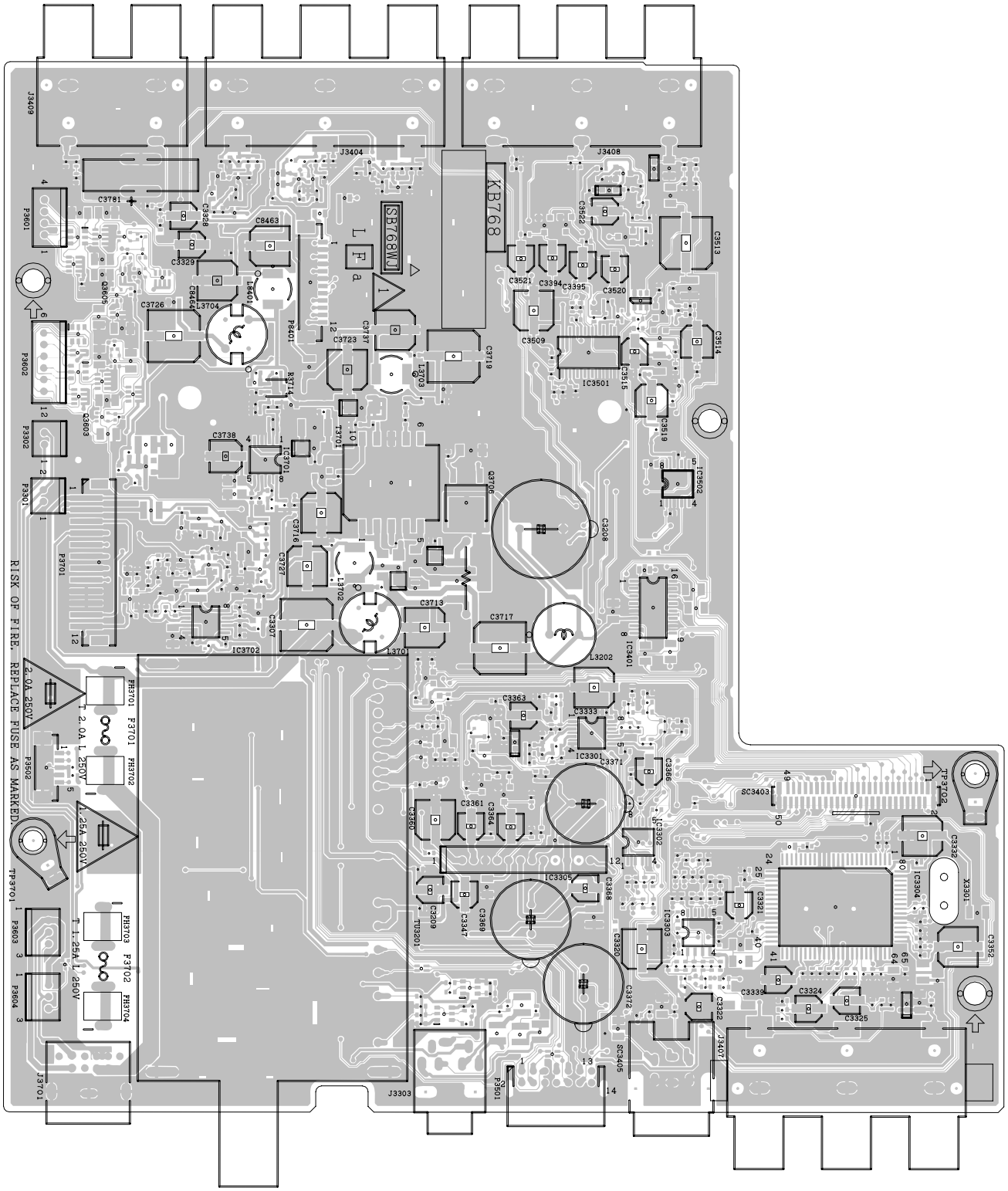
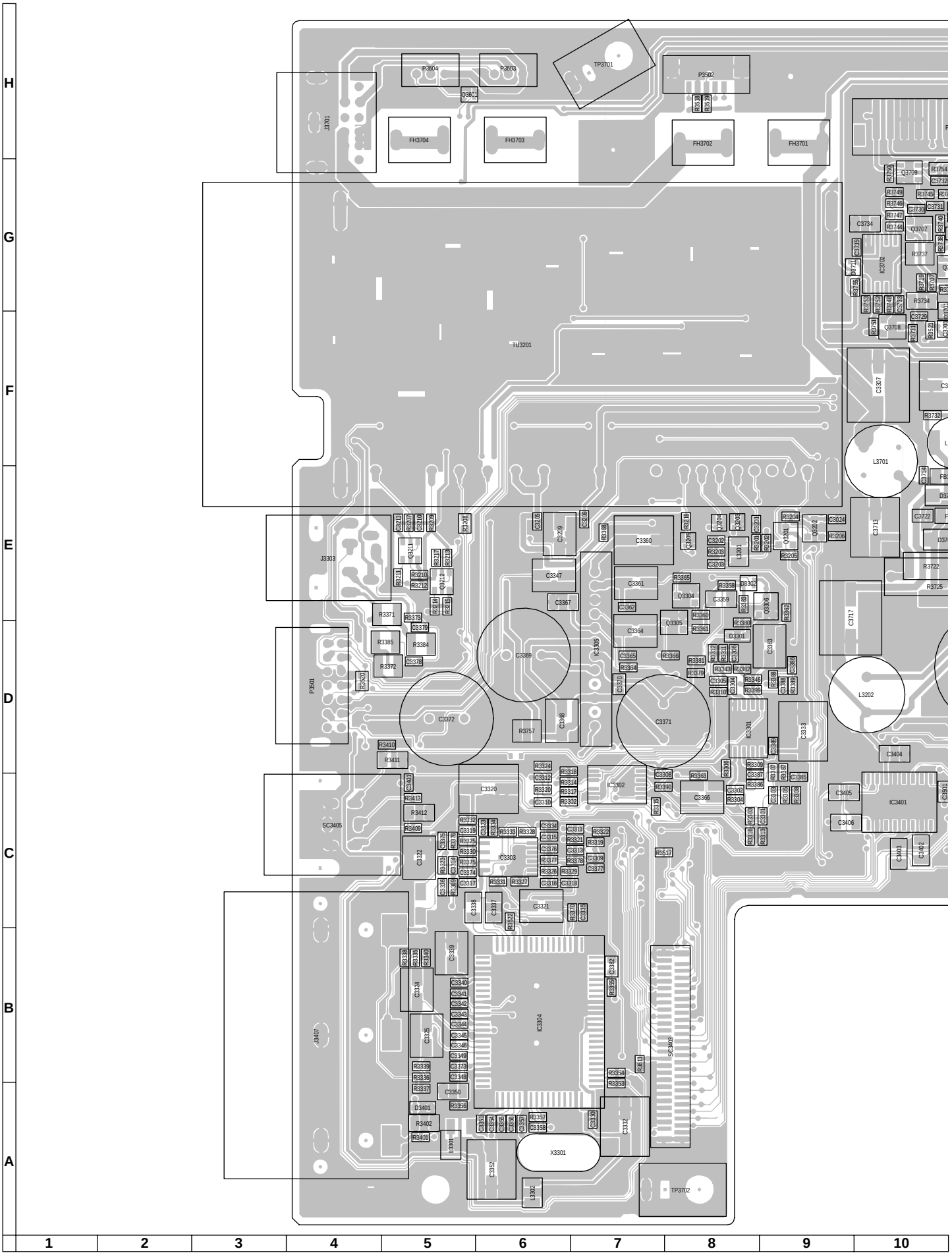
■ INVERTER Unit



PRINTED WIRING BOARD ASSEMBLIES



TUNER Unit (Side-A)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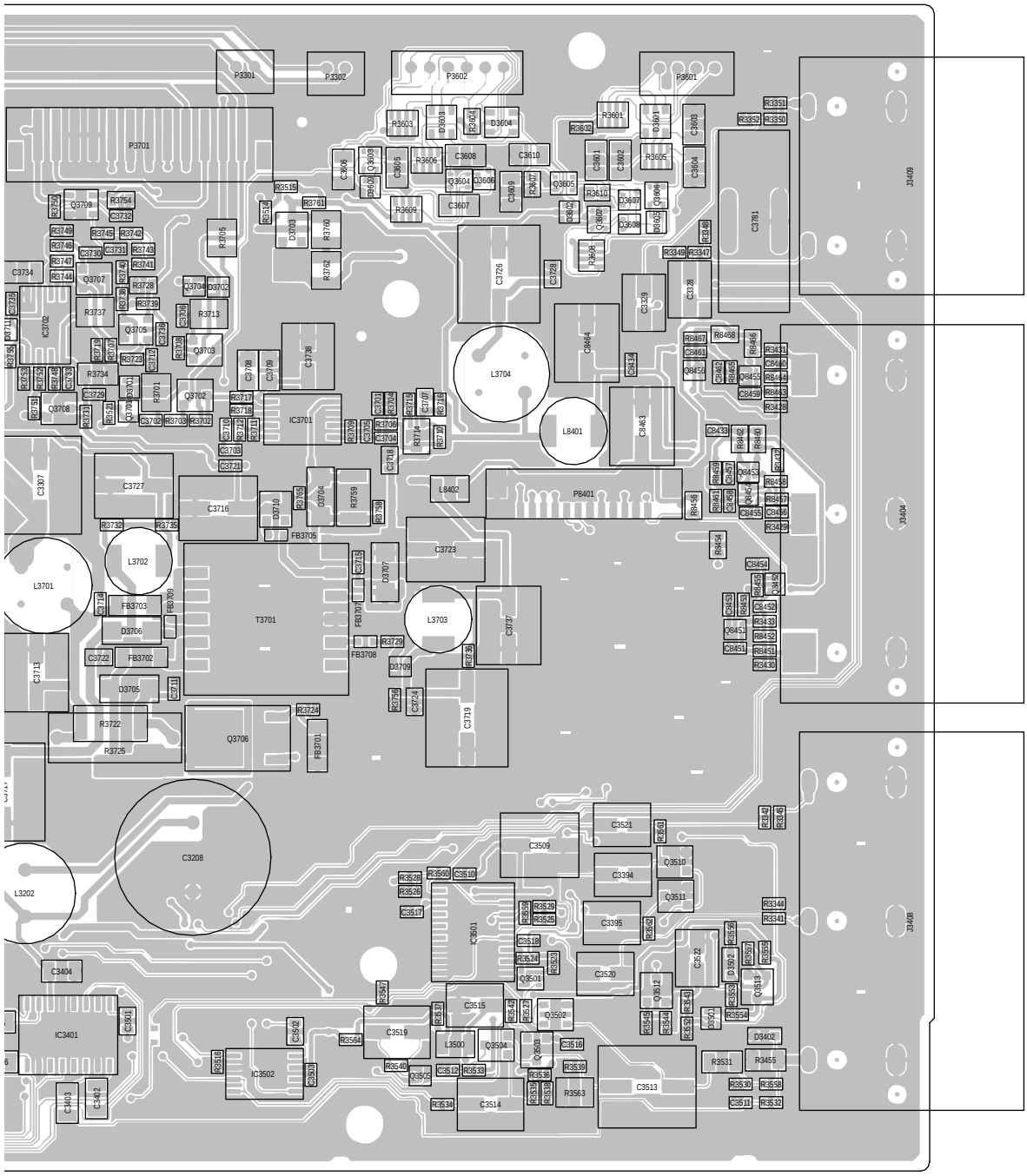

TUNER Unit (Chip Parts Side-A)

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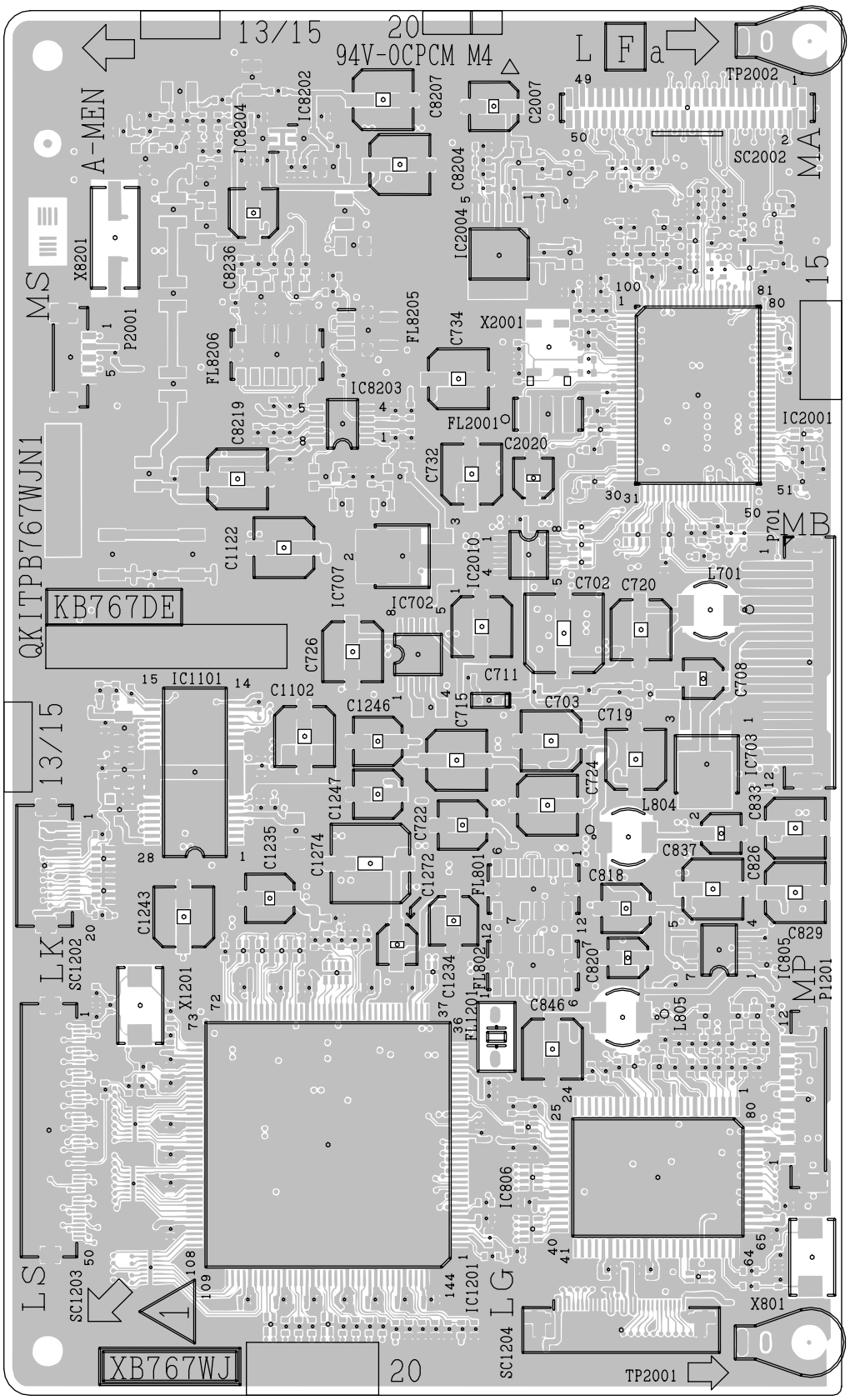
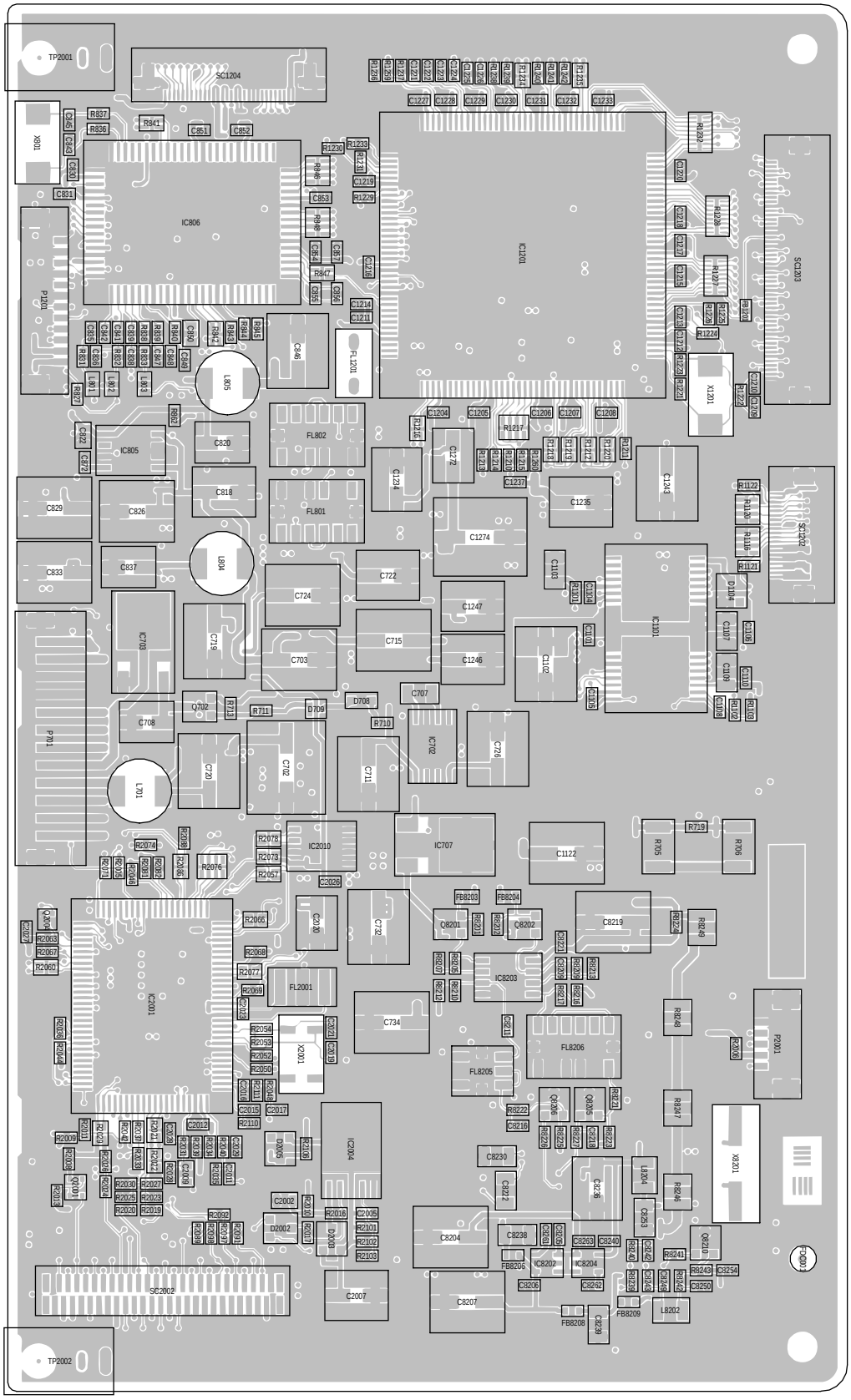
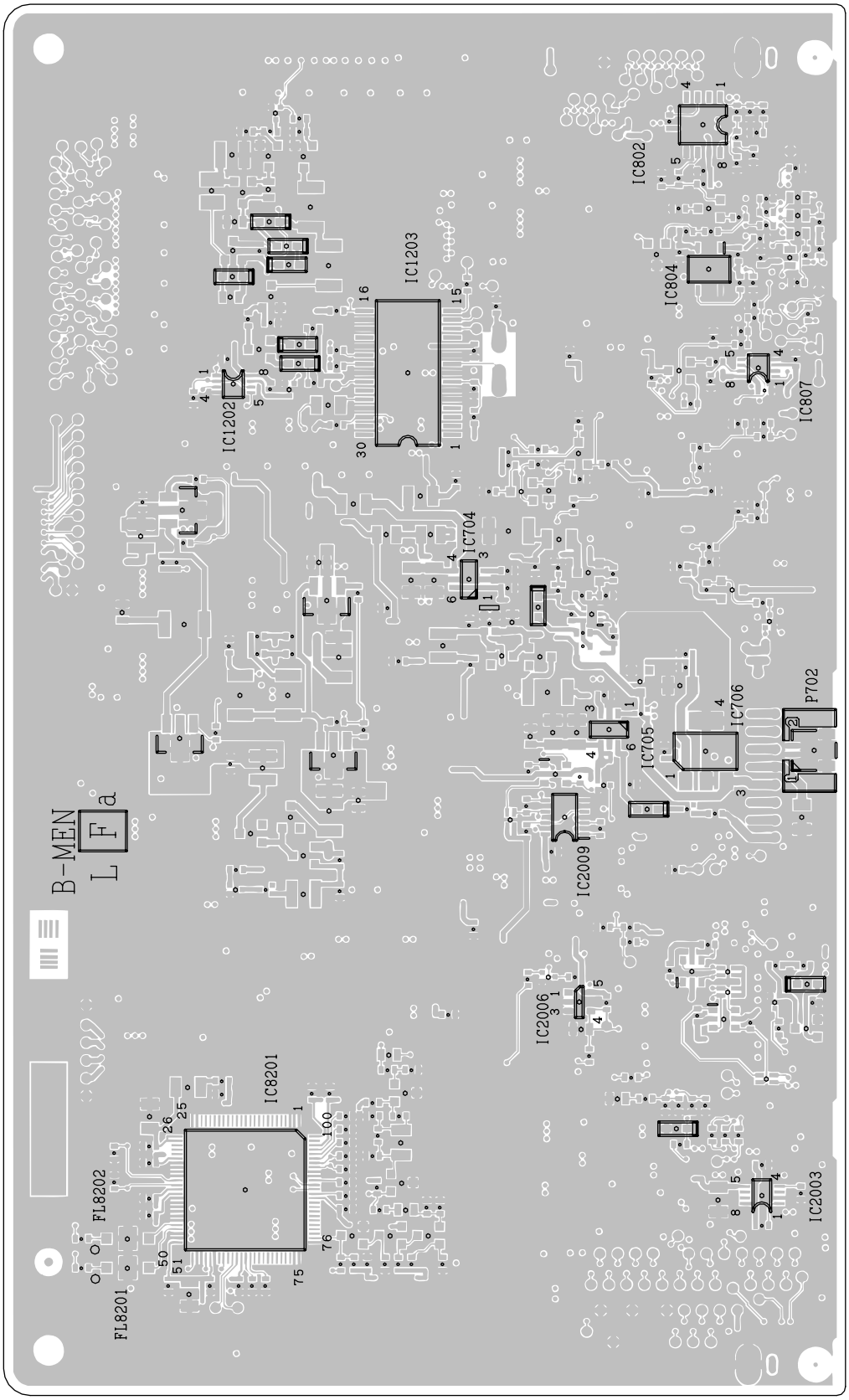


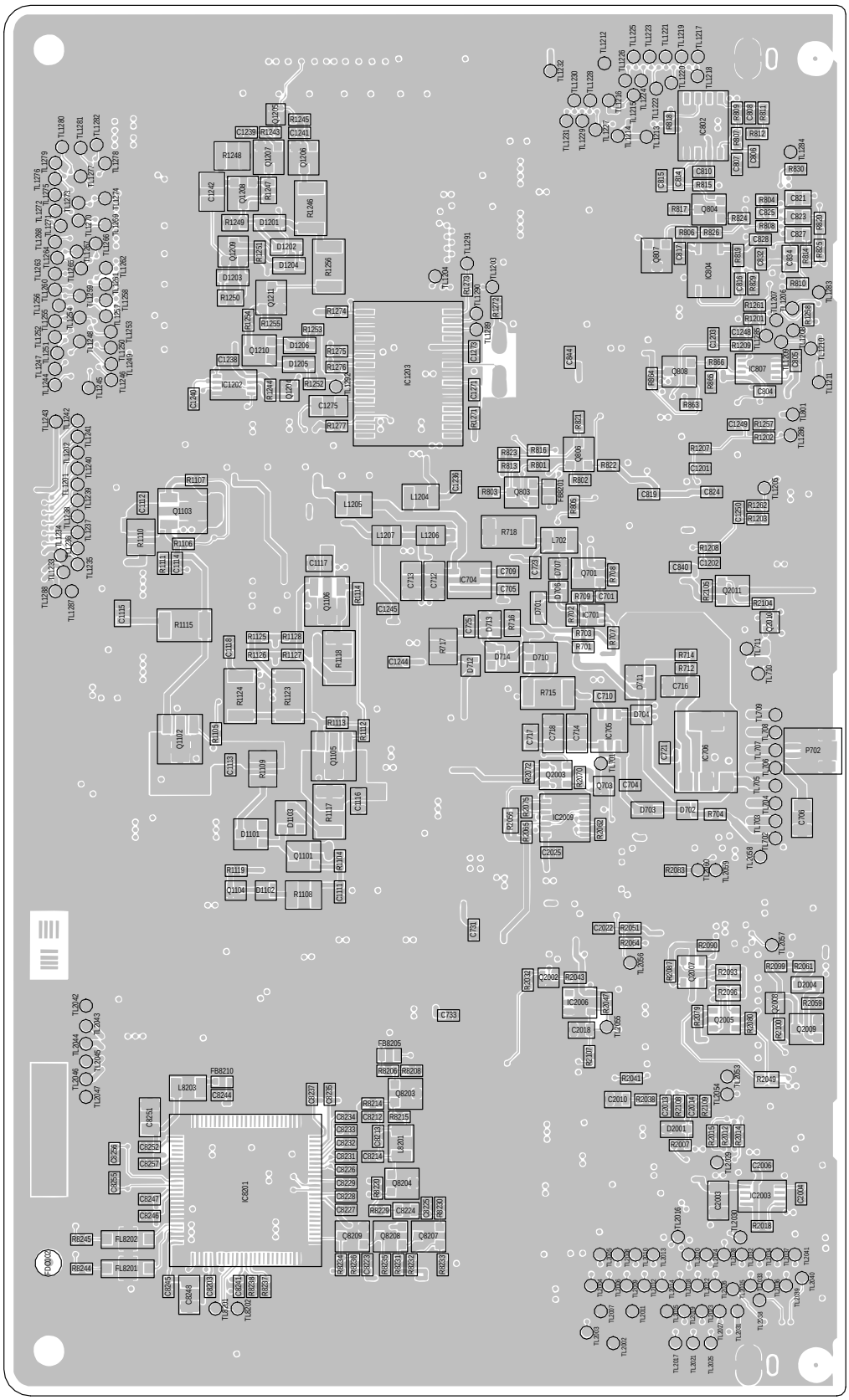
MAIN Unit (Side-A)



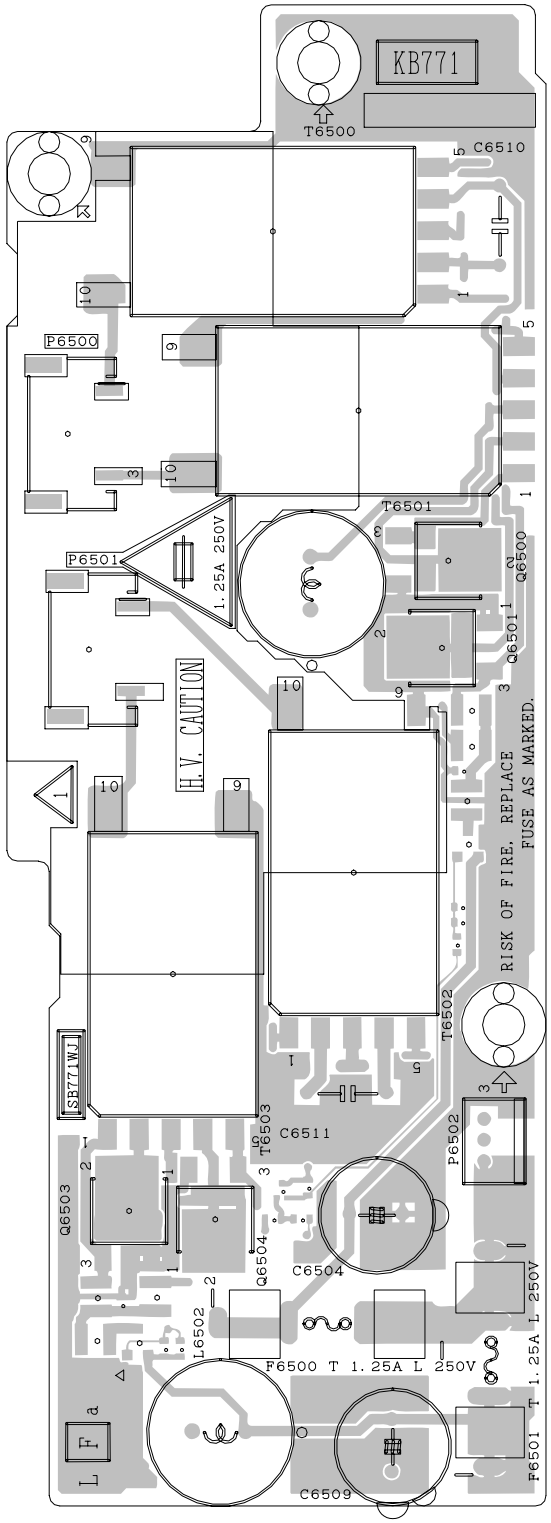
MAIN Unit (Chip Parts Side-A)



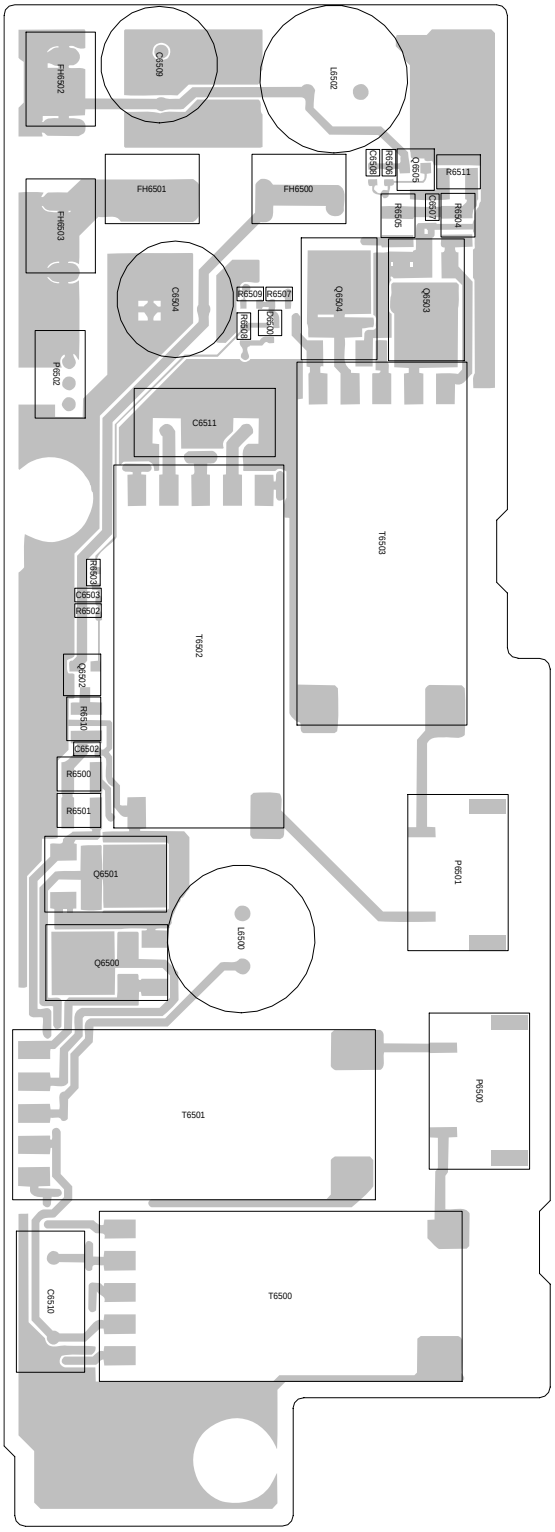
MAIN Unit (Side-B)



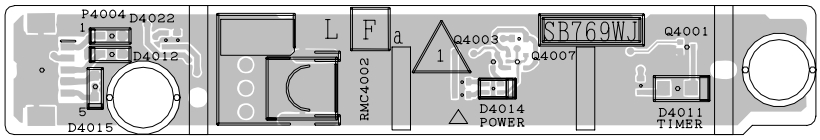
MAIN Unit (Chip Parts Side-B)



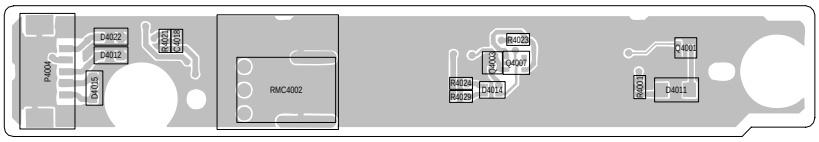
INVERTER Unit (Side-A)



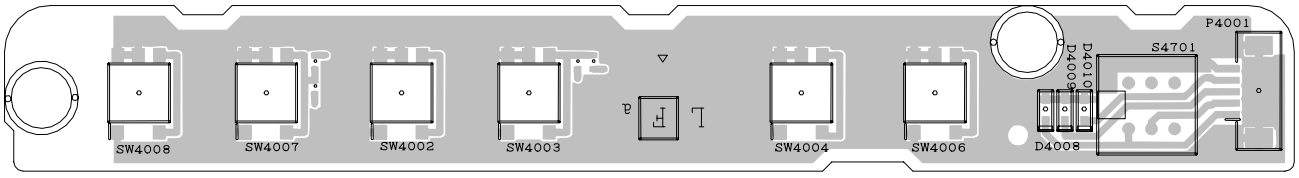
INVERTER Unit (Chip Parts Side-A)



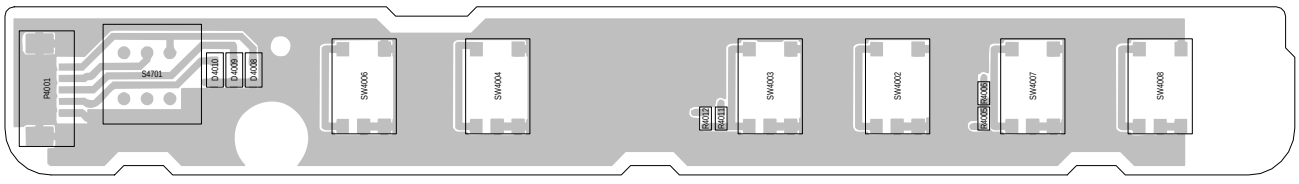
R/C, LED Unit (Side-A)



R/C, LED Unit (Chip Parts Side-A)



OPERATION Unit (Side-A)
(QPWBSB770WJN2)



OPERATION Unit (Chip Parts Side-A)
(QPWBSB770WJN2)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ⚠ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which dose no have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

LISTE DES PIECES

CHANGE DES PIECES

Les pi`eces de rechange qui pr élelesentent ces caract éleristiques sp éleciales de s élecurit éle, sont identifi élees dans ce manuel : les pi`eces élelectriques qui pr élesentent ces particularit éles, sont rep éler élee par la marque ⚠ et sont hachur élees dans les listes de pi`eces et dans les diagrammes sch élematiques.
La substitution d'une pi`ece de rechange par une autre qui ne pr éLesente pas les m éoemes caract éLeristiques de s élecurit éle que la pi`ece recommand élee parl'usine et dans ce manuel de service, peut provoquer une éLelectrocution, un incendie ou toutautre sinistre.

"COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

1. NUMERO DU MODELE
2. NO. DE REF
3. NO. DE PIECE
4. DESCRIPTION

in **CANADA**: Contact SHARP Electronics of Canada Limited Phone (416) 890-2100

★MARQUE: SECTION LIVRAISON DES PIECES DE RECHANGE

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

	DUNTKB767FE01	–	MAIN Unit	—
	DUNTKB768DE01	–	TUNER Unit	—
	DUNTKB769DE01	–	R/C, LED Unit	—
	DUNTKB770DE01	–	OPERATION Unit	—
	DUNTKB771DE01	–	INVERTER Unit	—

LCD PANEL

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	RLCDTA012WJN1	J	13" LCD Panel Unit	CT

DUNTKB767FE01
MAIN UNIT

INTEGRATED CIRCUITS

IC702	VHiNJU7662M-1Y	J	NJU7662M(TE2)	AL
IC703	VHiNJ79M08D-1Y	J	NJM79M08DL1A	AF
IC704	VHiPQ1R33//-1Y	J	PQ1R33	AE
IC705	VHiPQ1R34++-1Y	J	PQ1R34	AE
IC706	VHiLM1117MJ-1Y	J	LM1117MPX-ADJ	AF
IC707	VHiBA09T/FP-1Y	J	BA09FP-E2	AG
IC802	VHiBA7046F/-1Y	J	BA7046F	AF
IC805	VHiMM1563DF-1Y	J	MM1563DFBE	AE
IC806	VHiVPC3230D1EQ	J	VPC3230D-QA-B3	BD
IC807	VHiTC7W53U/-1Y	J	TC7W53FU	AF
IC1101	VHiBD8120FP-1Y	J	BD8120FP	AX
IC1201	VHiDPS9450+-1Q	J	DPS9450A-XZ-A1	BD
IC1202	VHiTC4W66U/-1Y	J	TC4W66FU	AE
IC1203	VHiTA1318AF1EY	J	TA1318AF	AS
IC2001	RH-iXA620WJZZQ	J	M306V3MG-802FP	BB
IC2003	VHiN2370R331EY	J	NJM2370R33-TE1	AE
IC2004	VHiPQ20VZ11-1Y	J	PQ20VZ11	AG
IC2006	VHiBD4729G+-1Y	J	BD4729G-TR	AD
IC2010	VHiBR2416E2-1Y	J	BR24C16F	AK

TRANSISTORS

Q701	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q702	VSFMMT718//-1Y	J	FMMT718	AE
Q703	VSDTC144EE/-1Y	J	DTC144EE	AA
Q704	VSUMX2N++++-1Y	J	UMX2N	AB
Q803	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q804	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q806	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q807	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q808	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1101	VSFMMT718//-1Y	J	FMMT718	AE
Q1102	VS2SC4520//-1Y	J	2SC4520	AE
Q1103	VS2SA1729//-1Y	J	2SA1729	AF
Q1104	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1105	VS2SC4520//-1Y	J	2SC4520	AE
Q1106	VS2SA1729//-1Y	J	2SA1729	AF
Q1204	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2001	VSUM5K1NTR+-1Y	J	UM5K1NTR	AC

DUNTKB767FE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
Q2002	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2003	VSUPA606T//-1Y	J	UPA606T	AD
Q2005	VSUPA606T//-1Y	J	UPA606T	AD
Q2007	VSUPA606T//-1Y	J	UPA606T	AD
Q2008	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2009	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q2010	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2011	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
	DIODES			
D701	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB
D702	VHDDAN222//-1Y	J	Diode	AA
D703	RH-EX1245CEZZY	J	Zener Diode, 5.1V	AB
D704	VHDDAN222//-1Y	J	Diode	AA
D706	VHDDAN222//-1Y	J	Diode	AA
D707	VHDDAN222//-1Y	J	Diode	AA
D708	RH-EX1245CEZZY	J	Zener Diode, 5.1V	AB
D709	VHDDAN222//-1Y	J	Diode	AA
D710	VHD1SS250//1EY	J	Diode	AB
D711	VHDDAN202K/-1Y	J	Diode	AB
D712	VHDDAN222//-1Y	J	Diode	AA
D713	VHDRB481K++-1Y	J	Diode	AD
D714	VHDRB491D++-1Y	J	Diode	AD
D1101	VHD1SS250//1EY	J	Diode	AB
D1102	VHDDAN222//-1Y	J	Diode	AA
D1103	VHD1SS250//1EY	J	Diode	AB
D1104	VHD1SS250//1EY	J	Diode	AB
D2001	RH-EX1232CEZZY	J	Zener Diode	AB
D2003	VHDDAN202K/-1Y	J	Diode	AB
D2004	RH-EX1396CEZZY	J	Zener Diode	AB
D2005	VHDRB491D++-1Y	J	Diode	AD
	PACKAGED CIRCUITS			
X801	RCRSC0012CEZZY	J	Crystal, 20.25MHz	AH
X1201	RCRSC0012CEZZY	J	Crystal, 20.25MHz	AH
X2001	RCRSC0032TAZZY	J	Crystal	AG
	FILTERS AND COILS			
FL801	RCiLFA033WJZZY	J	Coil	AG
FL802	RCiLFA033WJZZY	J	Coil	AG
FL1201	RFiLA0034CEZZ	J	Filter	AD
FL2001	RFiLZ0169TAZZY	J	Filter	AD
L701	RCiLPA143WJZZY	J	Coil	AD
L702	VP-1M470J5R4NY	J	Peaking 47µH	AC
L801	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L802	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L803	VP-9N3R3KR46NY	J	Peaking 3.3µH	AC
L804	RCiLPA143WJZZY	J	Coil	AD
L805	RCiLPA143WJZZY	J	Coil	AD
L1201	RCiLPA127WJZZY	J	Coil	AC
L1202	RCiLPA127WJZZY	J	Coil	AC
L1203	RCiLPA127WJZZY	J	Coil	AC
L1204	VP-1M220J2R9NY	J	Peaking 22µH	AB
L1205	VP-1M220J2R9NY	J	Peaking 22µH	AB
L1206	VPCGM220M0R5NY	J	Peaking 22µH	AB
L1207	VPCGM220M0R5NY	J	Peaking 22µH	AB
	CAPACITORS			
C701	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C702	VCEASH1CN337MY	J	330 16V Electrolytic	AE
C703	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C704	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C705	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C706	RC-KZ0075TAZZY	J	2.2 16V Ceramic	AC
C707	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C708	RC-EZA129WJZZY	J	2.2 50V Electrolytic	AB
C709	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C710	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C711	RC-EZA132WJZZY	J	10 50V Electrolytic	AC
C712	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C713	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C714	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C715	RC-EZA132WJZZY	J	10 50V Electrolytic	AC
C716	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C718	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C719	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C720	VCEASH0JN227MY	J	220 6.3V Electrolytic	AC
C721	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C722	RC-EZA131WJZZY	J	4.7 50V Electrolytic	AC
C723	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C724	RC-EZA132WJZZY	J	10 50V Electrolytic	AC
C725	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C726	RC-EZA132WJZZY	J	10 50V Electrolytic	AC
C727	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C731	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C732	RC-EZA127WJZZY	J	100 16V Electrolytic	AC
C733	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C734	RC-EZA127WJZZY	J	100 16V Electrolytic	AC
C804	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C805	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C806	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C807	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C808	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C810	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C814	VCKYCY1AB105KY	J	1 10V Ceramic	AB
C815	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C818	RC-EZA135WJZZY	J	47 6.3V Electrolytic	AC
C819	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C820	RC-EZA122WJZZY	J	22 6.3V Electrolytic	AB
C821	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C822	RC-KZA030WJZZY	J	2.2 10V Ceramic	AB
C823	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C824	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C825	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C826	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C827	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C828	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C829	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C830	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C831	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C832	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C833	RC-EZA123WJZZY	J	100 6.3V Electrolytic	AC
C834	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C835	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C836	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C837	RC-EZA124WJZZY	J	10 16V Electrolytic	AB
C838	VCKYCY1HB331KY	J	330p 50V Ceramic	AA
C839	VCKYCY1AB224KY	J	0.22 10V Ceramic	AB
C840	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C841	VCKYCY1AB224KY	J	0.22 10V Ceramic	AB
C842	VCKYCY1AB224KY	J	0.22 10V Ceramic	AB
C843	VCCCCY1HH7R0DY	J	7p 50V Ceramic	AA
C844	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C845	VCCCCY1HH7R0DY	J	7p 50V Ceramic	AA
C846	RC-EZA134WJZZY	J	220 6.3V Electrolytic	AC
C847	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C848	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C849	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C850	RC-KZ0117TAZZY	J	4.7 6.3V Ceramic	AD
C851	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C852	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C853	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C854	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C855	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C856	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C857	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C872	VCCCCY1HH471JY	J	470p 50V Ceramic	AA
C1101	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1102	RC-EZ1339CEZZY	J	220 16V Electrolytic	AD
C1103	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1105	VCCCCY1HH181JY	J	180p 50V Ceramic	AA
C1107	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1108	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C1109	RC-KZA041WJZZY	J	10 10V Ceramic	AC
C1111	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C1112	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C1113	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C1114	VCCCCY1HH560JY	J	56p 50V Ceramic	AB

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Ref. No.	Part No.	★			Description	Code
C1115	VCKYTV1CB334KY	J	0.33	16V	Ceramic	AC
C1116	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1117	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1118	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C1122	RC-EZ1339CEZZY	J	220	16V	Electrolytic	AD
C1201	VCCCCY1HH121JY	J	120p	50V	Ceramic	AA
C1202	VCCCCY1HH121JY	J	120p	50V	Ceramic	AA
C1203	VCCCCY1HH121JY	J	120p	50V	Ceramic	AA
C1204	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1205	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1206	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1207	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1208	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1209	VCCCCY1HH7R0DY	J	7p	50V	Ceramic	AA
C1210	VCCCCY1HH7R0DY	J	7p	50V	Ceramic	AA
C1211	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1212	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1213	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1214	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1215	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1216	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1217	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1218	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1219	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1220	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1221	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1222	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1223	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1224	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1225	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1226	VCKYCY1CF474ZY	J	0.47	16V	Ceramic	AB
C1227	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1228	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1229	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1230	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1231	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1232	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1233	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1234	RC-EZA143WJZZY	J	100	6.3V	Electrolytic	AC
C1235	RC-EZA143WJZZY	J	100	6.3V	Electrolytic	AC
C1236	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1237	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1238	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1240	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C1244	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1245	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1246	RC-EZA143WJZZY	J	100	6.3V	Electrolytic	AC
C1247	RC-EZA143WJZZY	J	100	6.3V	Electrolytic	AC
C1271	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1272	RC-EZA128WJZZY	J	1	50V	Electrolytic	AB
C1273	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1274	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C1275	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C2002	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C2003	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C2004	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2005	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2006	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2007	RC-EZA125WJZZY	J	2.2	16V	Electrolytic	AC
C2011	VCKYCY1EB104KY	J	0.1	25V	Ceramic	AB
C2012	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2015	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C2016	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C2017	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C2018	VCKYTV1CF684ZY	J	0.68	16V	Ceramic	AB
C2019	VCCCCY1HH3R0CY	J	3p	50V	Ceramic	AA
C2020	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C2021	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C2022	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2023	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2026	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2027	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2029	VCKYCY1HB561KY	J	560p	50V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★			Description	Code
R701	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R702	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R703	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R704	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R707	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R708	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R710	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R711	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R712	VRS-CY1JF680FY	J	68	1/16W	Metal Oxide	AA
R713	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R714	VRS-CY1JF151FY	J	150	1/16W	Metal Oxide	AA
R715	VRS-TX2HF330JY	J	33	1/2W	Metal Oxide	AB
R716	VRS-TV1JD562JY	J	5.6k	1/10W	Metal Oxide	AA
R717	VRS-TW2ED150JY	J	15	1/4W	Metal Oxide	AA
R718	VRS-TX2HF472JY	J	4.7k	1/2W	Metal Oxide	AB
R719	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R801	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R802	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R804	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R805	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R806	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R807	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R809	VRS-CY1JF474JY	J	470k	1/16W	Metal Oxide	AA
R810	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R811	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R812	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R813	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R815	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R816	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R817	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R818	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R820	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R822	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R823	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R824	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R825	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R826	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R829	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R830	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R831	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R832	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R833	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R836	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R837	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R838	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R839	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R840	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R841	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R842	VRS-CA1JF101JY	J	100	1/16W	Metal Oxide	AA
R843	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R845	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R846	VRS-CB1JF000JY	J	0	1/16W	Metal Oxide	AC
R847	VRS-CA1JF220JY	J	22	1/16W	Metal Oxide	AA
R848	VRS-CB1JF000JY	J	0	1/16W	Metal Oxide	AC
R863	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R865	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R866	VRS-CY1JF821JY	J	820	1/16W	Metal Oxide	AA
R1101	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1103	VRS-CY1JF472FY	J	4.7k	1/16W	Metal Oxide	AA
R1104	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R1106	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1107	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R1108	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R1109	VRS-TW2ED5R6JY	J	5.6	1/4W	Metal Oxide	AA
R1110	VRS-TW2ED8R2JY	J	8.2	1/4W	Metal Oxide	AA
R1111	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF181JY	J	180	1/16W	Metal Oxide	AA
R1113	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF181JY	J	180	1/16W	Metal Oxide	AA
R1115	VRS-TX2HF100JY	J	10	1/2W	Metal Oxide	AB

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Ref. No.	Part No.	★		Description	Code
R1117	VRS-TX2HF5R6JY	J	5.6	1/2W Metal Oxide	AB
R1118	VRS-TX2HF5R6JY	J	5.6	1/2W Metal Oxide	AB
R1119	VRS-CY1JF473JY	J	47k	1/16W Metal Oxide	AA
R1121	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1122	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1124	VRS-TX2HF101JY	J	100	1/2W Metal Oxide	AA
R1126	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1127	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1128	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1204	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1207	VRS-CY1JF221JY	J	220	1/16W Metal Oxide	AA
R1208	VRS-CY1JF221JY	J	220	1/16W Metal Oxide	AA
R1209	VRS-CY1JF221JY	J	220	1/16W Metal Oxide	AA
R1211	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1212	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1213	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1214	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1216	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1217	VRS-CB1JF101JY	J	100	1/16W Metal Oxide	AA
R1218	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1219	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1220	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1221	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1222	VRS-CY1JF105JY	J	1M	1/16W Metal Oxide	AA
R1223	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1224	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1225	VRS-CY1JF820JY	J	82	1/16W Metal Oxide	AA
R1226	VRS-CY1JF220JY	J	22	1/16W Metal Oxide	AA
R1227	VRK-CD1JJ680JY	J	68	1/16W Metal Compo.	AC
R1228	VRK-CD1JJ680JY	J	68	1/16W Metal Compo.	AC
R1229	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1230	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1231	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R1232	VRK-CD1JJ680JY	J	68	1/16W Metal Compo.	AC
R1233	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1234	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R1235	VRS-CA1JF220JY	J	22	1/16W Metal Oxide	AA
R1236	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1237	VRS-CY1JF102JY	J	1k	1/16W Metal Oxide	AA
R1238	VRS-CY1JF220JY	J	22	1/16W Metal Oxide	AA
R1239	VRS-CY1JF221JY	J	220	1/16W Metal Oxide	AA
R1240	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1242	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1244	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R1251	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1258	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1259	VRS-CY1JF182JY	J	1.8k	1/16W Metal Oxide	AA
R1260	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R1271	VRS-CY1JF682JY	J	6.8k	1/16W Metal Oxide	AA
R1272	VRS-CY1JF391JY	J	390	1/16W Metal Oxide	AA
R1273	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1274	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R1275	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1276	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R1277	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2005	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2006	VRS-CY1JF1R0JY	J	1	1/16W Metal Oxide	AA
R2007	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2008	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2009	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2010	VRS-CY1JF1R0JY	J	1	1/16W Metal Oxide	AA
R2011	VRS-CY1JF393JY	J	39k	1/16W Metal Oxide	AA
R2012	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2013	VRS-CY1JF333JY	J	33k	1/16W Metal Oxide	AA
R2014	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2015	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2016	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2018	VRS-CY1JF274JY	J	270k	1/16W Metal Oxide	AA
R2019	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2020	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2021	VRS-CA1JF102JY	J	1k	1/16W Metal Oxide	AA
R2022	VRS-CA1JF223JY	J	22k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★		Description	Code
R2024	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2026	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2029	VRS-CA1JF223JY	J	22k	1/16W Metal Oxide	AA
R2032	VRS-CY1JF823JY	J	82k	1/16W Metal Oxide	AA
R2033	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2035	VRS-CY1JF105JY	J	1M	1/16W Metal Oxide	AA
R2037	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2039	VRS-CY1JF512JY	J	5.1k	1/16W Metal Oxide	AA
R2040	VRS-CY1JF471JY	J	470	1/16W Metal Oxide	AA
R2041	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2042	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2043	VRS-CY1JF153JY	J	15k	1/16W Metal Oxide	AA
R2044	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2046	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2047	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2048	VRS-CY1JF102JY	J	1k	1/16W Metal Oxide	AA
R2049	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2050	VRS-CY1JF102JY	J	1k	1/16W Metal Oxide	AA
R2051	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2052	VRS-CY1JF512JY	J	5.1k	1/16W Metal Oxide	AA
R2054	VRS-CY1JF394JY	J	390k	1/16W Metal Oxide	AA
R2056	VRS-CA1JF103JY	J	10k	1/16W Metal Oxide	AA
R2057	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2059	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2060	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2061	VRS-CY1JF822JY	J	8.2k	1/16W Metal Oxide	AA
R2062	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2063	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2064	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2066	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2067	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2068	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2069	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2070	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2071	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2072	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2073	VRS-CA1JF153JY	J	15k	1/16W Metal Oxide	AB
R2074	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2075	VRS-CY1JF000JY	J	00	1/16W Metal Oxide	AA
R2076	VRS-CB1JF101JY	J	10	1/16W Metal Oxide	AA
R2077	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2078	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2079	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2080	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2081	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2082	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2083	VRS-CY1JF512JY	J	5.1k	1/16W Metal Oxide	AA
R2086	VRS-CA1JF101JY	J	100	1/16W Metal Oxide	AA
R2087	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2089	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2090	VRS-CY1JF472JY	J	4.7k	1/16W Metal Oxide	AA
R2091	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2092	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2093	VRS-CA1JF103JY	J	10k	1/16W Metal Oxide	AA
R2096	VRS-CA1JF103JY	J	10k	1/16W Metal Oxide	AA
R2097	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2098	VRS-CY1JF000JY	J	0	1/16W Metal Oxide	AA
R2099	VRS-CY1JF562JY	J	5.6k	1/16W Metal Oxide	AA
R2100	VRS-CY1JF223JY	J	22k	1/16W Metal Oxide	AA
R2101	VRS-CY1JF392FY	J	3.9k	1/16W Metal Oxide	AA
R2102	VRS-CY1JF223FY	J	22k	1/16W Metal Oxide	AA
R2103	VRS-CY1JF102FY	J	1k	1/16W Metal Oxide	AA
R2104	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2105	VRS-CY1JF103JY	J	10k	1/16W Metal Oxide	AA
R2107	VRS-CY1JF101JY	J	100	1/16W Metal Oxide	AA
R2108	VRS-CY1JF512JY	J	5.1k	1/16W Metal Oxide	AA
R2109	VRS-CY1JF512JY	J	5.1k	1/16W Metal Oxide	AA

MISCELLANEOUS PARTS

FB1201	RBLN-0083GEZZY	J	Ferrite Bead	AB
P701	QPLGN0549FJZZY	J	Plug, 12-pin(MB)	AE
P702	QPLGN0274TAZZY	J	Plug, 2-pin	AC
P1201	QPLGN1258REZZY	J	Plug, 12-pin(MC)	AE
P2001	QPLGN0558REZZY	J	Plug, 5-pin	AE
SC1202	QSOCNA002WJPZY	J	Socket, 20-pin(LK)	AD
SC1203	QSOCN0687FJZZY	J	Socket, 50-pin(LS)	AF

Ref. No.	Part No.	★	Description	Code
SC1204	QSOCN0206FJZZY	J	Socket, 30-pin(LG)	AF
SC2002	QSOCN0464FJZZY	J	Socket, 50-pin(MA)	AH
TP2002	QLUGHA002WJZZ	J	Lug	AB
	PSPAHA229WJZZ	J	Spacer, x1	AA

DUNTKB767FE01
MAIN UNIT (Continued)

DUNTKB768DE01
TUNER UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

Ref. No.	Part No.	★	Description	Code
TU3201	VTUVT2U5UF559	J	Tuner	BB

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3301	VHiNJM4560M-1Y	J	NJM4560M	AG
IC3302	VHiNJM4560M-1Y	J	NJM4560M	AG
IC3303	VHiNJM4560M-1Y	J	NJM4560M	AG
IC3304	RH-iX3370CEN1Q	J	MSP3440G-QA-B8	AY
IC3305	VHiLA4635A+-1S	J	LA4635A	AM
IC3401	VHiNJM2293M-1Y	J	NJM2293M(TE1)	AG
IC3501	VHiTC4053BF1EY	J	TC4053BF	AF
IC3502	VHiNJM2268M-1Y	J	NJM2268M-TE1	AF
IC3701	VHiNJM2377M-1Y	J	NJM2377M	AK
IC3702	VHiNJM2147M-1Y	J	NJM2147M-TE1	AF

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q3201	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3202	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3211	VSiMZ1A////-1Y	J	IMZ1A	AC
Q3212	VSiMZ1A////-1Y	J	IMZ1A	AC
Q3304	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3305	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3501	VSUMG4N++++-1Y	J	UMG4N	AB
Q3502	VSUPA1970++-1Y	J	UPA1970	AE
Q3503	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3504	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3505	VSDTC114EE/-1Y	J	DTC114EE	AB
Q3510	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3511	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3512	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q3513	VS2SC2712Y/-1Y	J	2SC2712Y	AB
Q3601	VSDTC144EE/-1Y	J	DTC144EE	AA
Q3602	VSUM5K1NTR+-1Y	J	UM5K1NTR	AC
Q3606	VSUM5K1NTR+-1Y	J	UM5K1NTR	AC
Q3701	VSDTC144EE/-1Y	J	DTC144EE	AA
Q3702	VSFMMT718//-1Y	J	FMMT718	AE
Q3703	VSFMMT718//-1Y	J	FMMT718	AE
Q3704	VSDTC144EE/-1Y	J	DTC144EE	AA
Q3705	VSFMY3/////-1Y	J	FMY3	AB
Q3706	VS2SK2503//-1Y	J	2SK2503	AE
Q3707	VSFMMT619//-1Y	J	FMMT619	AE
Q3708	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3709	VSFMY3/////-1Y	J	FMY3	AB
Q8451	VS2SC4617//-1Y	J	2SC4617	AB
Q8452	VS2SC4617//-1Y	J	2SC4617	AB
Q8453	VS2SC4617//-1Y	J	2SC4617	AB
Q8454	VS2SC4617//-1Y	J	2SC4617	AB
Q8455	VS2SC4617//-1Y	J	2SC4617	AB
Q8456	VS2SC4617//-1Y	J	2SC4617	AB

DIODES

Ref. No.	Part No.	★	Description	Code
D3302	VHDDAN222//-1Y	J	Diode	AA
D3401	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3402	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3501	VHDDAN222//-1Y	J	Diode	AA
D3502	RH-EX1396CEZZY	J	Zener Diode, 6.8V	AB
D3601	VHDiMN10///-1Y	J	Diode	AB
D3602	VHDDAN222//-1Y	J	Diode	AA
D3605	VHDDAN222//-1Y	J	Diode	AA
D3608	VHDDAN222//-1Y	J	Diode	AA
D3701	VHDDAN222//-1Y	J	Diode	AA
D3702	VHDDAN222//-1Y	J	Diode	AA
D3703	VHDRB491D++-1Y	J	Diode	AD
D3705	VHDSFPB56//2EY	J	Diode	AC
D3706	VHDSFPB74//2EY	J	Diode	AD
D3707	VHDSFPB74//2EY	J	Diode	AD
D3709	VHDDAN222//-1Y	J	Diode	AA
D3710	VHD1SS250//1EY	J	Diode	AB
D3711	VHDDAN222//-1Y	J	Diode	AA

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TUNER UNIT(Continued)

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
X3301	RCRSB0307CEZZ	J	Crystal	AG

COILS

Ref. No.	Part No.	★	Description	Code
L3201	VP-1M220J2R9NY	J	Peaking 22µH	AB
L3202	RCiLPA142WJZZ	J	Coil	AD
L3301	VP-1M101J7R7NY	J	Peaking 100µH	AC
L3302	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB
L3500	VP-1M101J7R7NY	J	Peaking 100µH	AC
L3701	RCiLPA026WJZZ	J	Coil	AD
L3702	RCiLPA144WJZZY	J	Coil	AD
L3703	RCiLPA143WJZZY	J	Coil	AD
L3704	RCiLPA026WJZZ	J	Coil	AD
L8401	RCiLPA143WJZZY	J	Coil	AD
L8402	VP-1M680J6R9NY	J	Peaking 68µH	AB

TRANSFORMER

Ref. No.	Part No.	★	Description	Code
⚠ T3701	RTRNWA090WJZZY	J	Transformer	AH

CONTROL

Ref. No.	Part No.	★	Description	Code
R3714	RVR-M0111CEZZY	J	1k(B) +B Adj.	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C3024	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3201	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3202	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3203	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3205	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3206	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA
C3208	RC-EZA085WJZZ	J	3300	10V	Electrolytic	AE
C3209	RC-EZA128WJZZY	J	1	50V	Electrolytic	AB
C3210	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3211	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3307	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3308	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3309	VCKYCY1EB153KY	J	0.015	25V	Ceramic	AA
C3310	VCKYCY1EB153KY	J	0.015	25V	Ceramic	AA
C3311	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3312	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3313	VCKYCY1EB153KY	J	0.015	25V	Ceramic	AA
C3314	VCKYCY1EB153KY	J	0.015	25V	Ceramic	AA
C3315	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3316	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3317	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3318	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3319	VCKYCY1CB273KY	J	0.027	16V	Ceramic	AB
C3320	RC-EZA126WJZZY	J	47	16V	Electrolytic	AC
C3321	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3322	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3323	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3324	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3325	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3328	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3329	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3330	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3332	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3333	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3334	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3335	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C3336	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C3337	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3338	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3339	RC-EZA130WJZZY	J	3.3	50V	Electrolytic	AB
C3340	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3341	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3342	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C3343	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3344	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3345	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3346	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3349	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3350	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3351	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3352	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3354	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C3355	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C3356	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C3357	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C3358	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C3359	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3360	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3361	RC-EZA128WJZZY	J	1	50V	Electrolytic	AB
C3362	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3363	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3364	RC-EZA128WJZZY	J	1	50V	Electrolytic	AB
C3365	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3366	RC-EZA129WJZZY	J	2.2	50V	Electrolytic	AB
C3367	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3368	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C3369	RC-EZ1274CEZZ	J	1000	16V	Electrolytic	AD
C3370	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3372	RC-EZ1274CEZZ	J	1000	16V	Electrolytic	AD
C3375	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3377	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3382	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3385	VCKYCY1HB392KY	J	3900p	50V	Ceramic	AA
C3386	VCKYCY1HB392KY	J	3900p	50V	Ceramic	AA
C3387	VCCCCY1HH561JY	J	560p	50V	Ceramic	AB
C3388	VCCCCY1HH561JY	J	560p	50V	Ceramic	AB
C3389	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3401	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3402	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3403	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3404	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3405	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3406	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3501	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3502	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3503	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3509	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3510	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3511	VCKYCY1HB391KY	J	390p	50V	Ceramic	AA
C3512	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3513	VCEASH1CN477MY	J	470	16V	Electrolytic	AD
C3514	RC-EZA197WJZZY	J	33	6.3V	Electrolytic	AC
C3515	RC-EZA122WJZZY	J	22	6.3V	Electrolytic	AB
C3516	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3517	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3518	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3520	RC-EZA140WJZZY	J	4.7	25V	Electrolytic	AB
C3521	RC-EZA140WJZZY	J	4.7	25V	Electrolytic	AB
C3522	RC-EZA124WJZZY	J	10	16V	Electrolytic	AB
C3601	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C3602	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C3603	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C3604	VCKYTQ1EF225ZY	J	2.2	25V	Ceramic	AB
C3702	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3703	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3705	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA
C3706	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3708	RC-KZA002WJZZY	J	4.7	16V	Ceramic	AC
C3709	RC-KZA002WJZZY	J	4.7	16V	Ceramic	AC
C3710	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C3711	VCKYCY1HB562KY	J	5600p	50V	Ceramic	AA
C3712	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3713	VCAAPD1CJ396MY	J	39	16V	Electrolytic	AF
C3714	VCKYCY1HB562KY	J	5600p	50V	Ceramic	AA
C3715	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C3716	VCEASH1HN476MY	J	47	50V	Electrolytic	AD
C3717	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3718	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3719	VCEASH1CN337MY	J	330	16V	Electrolytic	AE
C3721	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3722	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3723	VCAAPD0JJ127MY	J	120	6.3V	Electrolytic	AF
C3724	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3726	VCEASH1CN477MY	J	470	16V	Electrolytic	AD
C3727	RC-EZ1339CEZZY	J	220	16V	Electrlytic	AD

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TUNER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
C3728	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C3729	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3730	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C3731	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3732	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3733	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA
C3734	RC-KZ0075TAZZY	J	2.2	16V	Ceramic	AC
C3735	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3736	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3737	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C3781	RC-EZ0380GEZZ	J	1F	5.5V	Electrolytic	AM
C8433	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8434	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8451	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C8452	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C8453	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8454	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8455	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C8456	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C8457	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8458	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8459	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C8460	VCCCCY1HH220JY	J	22p	50V	Ceramic	AA
C8461	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8462	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8463	RC-EZA127WJZZY	J	100	16V	Electrolytic	AC
C8464	RC-EZA123WJZZY	J	100	6.3V	Electrolytic	AC

RESISTORS

R3201	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3202	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3203	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R3204	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R3205	VRS-CY1JF331JY	J	330	1/16W	Metal Oxide	AA
R3206	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3207	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3208	VRS-CA1JF561JY	J	560	1/16W	Metal Oxide	AA
R3209	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3210	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R3211	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R3212	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R3213	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R3214	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R3215	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R3217	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3306	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3310	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3315	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R3316	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3317	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R3318	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3319	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R3320	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R3321	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R3322	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R3323	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R3324	VRS-CY1JF183FY	J	18k	1/16W	Metal Oxide	AA
R3325	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3326	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3327	VRS-CY1JF154FY	J	150k	1/16W	Metal Oxide	AA
R3328	VRS-CY1JF154FY	J	150k	1/16W	Metal Oxide	AA
R3331	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3332	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R3333	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3334	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3335	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3336	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3337	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3338	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3339	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3340	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3341	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R3342	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R3344	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3345	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3347	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3348	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3349	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3350	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3351	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3352	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3353	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3354	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3355	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3357	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R3358	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3360	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3361	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3362	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R3363	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R3364	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R3365	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3366	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3369	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3370	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3371	VRS-TW2ED121JY	J	120	1/4W	Metal Oxide	AA
R3372	VRS-TW2ED121JY	J	120	1/4W	Metal Oxide	AA
R3375	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R3376	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3377	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R3378	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3383	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3384	VRS-TW2ED101JY	J	100	1/4W	Metal Oxide	AA
R3385	VRS-TW2ED101JY	J	100	1/4W	Metal Oxide	AA
R3386	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3387	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3388	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3389	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3401	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3402	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3409	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3410	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3411	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3412	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3413	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3428	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3429	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3430	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3514	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3516	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R3517	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3518	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3522	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3523	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3524	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3528	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3529	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3530	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3531	VRS-TQ2BD680JY	J	68	1/8W	Metal Oxide	AA
R3532	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3533	VRS-CY1JF680JY	J	68	1/16W	Metal Oxide	AA
R3534	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3535	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3536	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3537	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3540	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3542	VRS-CY1JF680JY	J	68	1/16W	Metal Oxide	AA
R3543	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3544	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3545	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3547	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3552	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3553	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3554	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3555	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3556	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA
R3557	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3558	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA

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TUNER UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R3561	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3562	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3564	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3601	VRS-CB1JF222JY	J	2.2k	1/16W	Metal Oxide	AC
R3605	VRS-CB1JF824JY	J	820k	1/16W	Metal Oxide	AC
R3608	VRS-CB1JF562JY	J	5.6k	1/16W	Metal Oxide	AC
R3611	VRS-CY1JF563JY	J	56k	1/16W	Metal Oxide	AA
R3701	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R3703	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3705	VRS-TW2ED1R0JY	J	1	1/4W	Metal Oxide	AB
R3706	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R3707	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R3708	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3709	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R3711	VRS-CY1JF274JY	J	270k	1/16W	Metal Oxide	AA
R3712	VRS-CY1JF133FY	J	13k	1/16W	Metal Oxide	AA
R3713	VRS-TW2ED102JY	J	1k	1/4W	Metal Oxide	AA
R3715	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3716	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R3717	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R3718	VRS-CY1JF184JY	J	180k	1/16W	Metal Oxide	AA
R3719	VRS-CY1JF153FY	J	15k	1/16W	Metal Oxide	AA
R3722	VRS-CE3AF821JY	J	820	1W	Metal Oxide	AC
R3723	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3728	VRS-TV1JD103JY	J	10k	1/10W	Metal Oxide	AA
R3729	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R3731	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3734	VRS-TQ2BD683JY	J	68k	1/8W	Metal Oxide	AA
R3735	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R3737	VRS-TW2ED561JY	J	560	1/4W	Metal Oxide	AA
R3738	VRS-CY1JF113FY	J	11k	1/16W	Metal Oxide	AA
R3739	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3740	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R3741	VRS-CY1JF122FY	J	1.2k	1/16W	Metal Oxide	AA
R3742	VRS-CY1JF682FY	J	6.8k	1/16W	Metal Oxide	AA
R3743	VRS-CY1JF122FY	J	1.2k	1/16W	Metal Oxide	AA
R3744	VRS-CY1JF223FY	J	22k	1/16W	Metal Oxide	AA
R3745	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3746	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3747	VRS-CY1JF123FY	J	12k	1/16W	Metal Oxide	AA
R3748	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3749	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R3750	VRS-CY1JF391JY	J	390	1/16W	Metal Oxide	AA
R3751	VRS-CY1JF473FY	J	47k	1/16W	Metal Oxide	AA
R3752	VRS-CY1JF622FY	J	6.2k	1/16W	Metal Oxide	AA
R3753	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R3754	VRS-TV1JD103JY	J	10k	1/10W	Metal Oxide	AA
R3755	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3756	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R3757	VRS-TW2ED000JY	J	0	1/4W	Metal Oxide	AB
R3760	VRS-TW2ED470JY	J	47	1/4W	Metal Oxide	AA
R3762	VRS-TW2ED470JY	J	47	1/4W	Metal Oxide	AA
R3765	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R8451	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8452	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8453	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8454	VRS-TV1JD332JY	J	3.3k	1/10W	Metal Oxide	AA
R8455	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8456	VRS-TV1JD152JY	J	1.5k	1/10W	Metal Oxide	AA
R8457	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8458	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8459	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8460	VRS-TV1JD332JY	J	3.3k	1/10W	Metal Oxide	AA
R8461	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8462	VRS-TV1JD152JY	J	1.5k	1/10W	Metal Oxide	AA
R8463	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8464	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R8465	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8466	VRS-TV1JD332JY	J	3.3k	1/10W	Metal Oxide	AA
R8467	VRS-CY1JF561JY	J	560	1/16W	Metal Oxide	AA
R8468	VRS-TV1JD152JY	J	1.5k	1/10W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠ FH3702	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3703	QFSHD1002CEZZ	J	Fuse Holder	AA
FH3704	QFSHD1002CEZZ	J	Fuse Holder	AA
FB3701	RBLN-0095CEZZY	J	Ferrtie Bead	AD
FB3702	RBLN-0095CEZZY	J	Ferrtie Bead	AD
FB3703	RBLN-0095CEZZY	J	Ferrtie Bead	AD
FB3705	RBLN-0051TAZZY	J	Ferrtie Bead	AC
FB3707	RBLN-0254TAZZY	J	Ferrtie Bead	AB
FB3708	RBLN-0051TAZZY	J	Ferrtie Bead	AC
FB3709	RBLN-0254TAZZY	J	Ferrtie Bead	AB
J3303	QJAKJ0047CEZZ	J	HEADPHONE	AD
J3404	QJAKG0069CEZZ	J	Y/PB/PR(COMPONENT IN)	AG
J3407	QJAKG0068CEZZ	J	VIDEO/AUDIO(L/R)(AV-IN1)	AG
J3408	QJAKG0085CEZZ	J	VIDEO/AUDIO(L/R) (AV-IN2/OUT)	AG
J3409	QJAKF0066CEZZ	J	AUDIO(L/R) (COMPONENT IN)	AE
J3701	QJAKE0193CEZZ	J	POWER INPUT(DC12V)	AK
P3301	QPLGN0278GEZZ	J	Plug, 2-pin(SL)	AA
P3302	QPLGN0278GEZZ	J	Plug, 2-pin(SR)	AA
P3501	QPLGNA071WJZZ	J	Plug, 14-pin(MJ)	AC
P3502	QPLGN0558REZZY	J	Plug, 5-pin(MR)	AE
P3601	QPLGN0478GEZZ	J	Plug, 4-pin(CL1)	AB
P3603	QPLGN0378GEZZ	J	Plug, 3-pin(VE)	AB
P3701	QPLGN0549FJZZY	J	Plug, 12-pin(MB)	AE
P8401	QPLGN1258REZZY	J	Plug, 12-pin(MC)	AE
SC3403	QSOCN0464FJZZY	J	Socket, 50-pin	AH
SC3405	QSOCD0456CEZZ	J	S-VIDEO(AV-IN1)	AE
TP3701	QLUGHA002WJZZ	J	Lug	AB
TP3702	QLUGHA002WJZZ	J	Lug	AB
	QCNW-B233WJZZ	J	Connecting Cord(MB)	AN
	QCNW-B321WJZZ	J	Connecting Cord(MC)	AH
	QCNW-B323WJZZ	J	Connecting Cord(MR)	AG
	QEARPA460WJFW	J	Grounding Part	AD
	LHLDW1077GEZZ	J	Wire Holder, x2	AA

Ref. No.	Part No.	★	Description	Code

DUNTKB769DE01
R/C, LED UNIT

TRANSISTORS

Q4001	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4003	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4007	VSUMG4N++++-1Y	J	UMG4N	AB

DIODES

D4011	RH-PX0419CEZZY	J	SLEEP Indicator	AC
D4012	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4014	RH-PX0421CEZZY	J	POWER Indicator	AD
D4015	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4022	RH-EX1271CEZZY	J	Zener Diode, 12V	AB

CAPACITOR

C4018	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB

RESISTORS

R4001	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R4021	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R4023	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4024	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R4029	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

RMC4002	RRMCU0239CEZZ	J	R/C Receiver	AG

DUNTKB770DE01
OPERATION UNIT

DIODES

D4008	RH-EX1283CEZZY	J	Zener Diode	AB
D4009	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4010	RH-EX1271CEZZY	J	Zener Diode, 12V	AB

RESISTORS

R4005	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R4006	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4011	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R4012	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA

SWITCHES

S4701	QSW-P0035GEZZ	J	MAIN POWER	AF
SW4002	QSW-K0108CEZZY	J	CH(∨)	AD
SW4003	QSW-K0108CEZZY	J	CH(∧)	AD
SW4004	QSW-K0108CEZZY	J	MENU	AD
SW4006	QSW-K0108CEZZY	J	TV/VIDEO	AD
SW4007	QSW-K0108CEZZY	J	VOL(+)	AD
SW4008	QSW-K0108CEZZY	J	VOL(–)	AD

MISCELLANEOUS PARTS

P4001	QPLGN0563TAZZY	J	Plug, 5-pin(MS)	AC
	QCNW-B543WJZZ	J	Connecting Cord(MS)	AE

DUNTKB771DE02
INVERTER UNIT

TRANSISTORS

Q6500	VS2SC5886++-1Y	J	2SC5886	AE
Q6501	VS2SC5886++-1Y	J	2SC5886	AE
Q6502	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q6503	VS2SC5886++-1Y	J	2SC5886	AE
Q6504	VS2SC5886++-1Y	J	2SC5886	AE
Q6505	VS2SA1530AR-1Y	J	2SA1530AR	AB

DIODE

D6500	VHDDAN222//-1Y	J	Diode	AA

COILS

L6500	RCiLPA093WJZZ	J	Coil	AF
L6502	RCiLPA093WJZZ	J	Coil	AF

TRANSFORMERS

⚠ T6500	RTRNZA029WJZZQ	J	Transformer		AL
⚠ T6501	RTRNZA026WJZZQ	J	Transformer		AL
⚠ T6502	RTRNZA029WJZZQ	J	Transformer		AL
⚠ T6503	RTRNZA026WJZZQ	J	Transformer		AL

CAPACITORS

C6502	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C6503	VCKYCY1CB473KY	J	0.047	16V	Ceramic	AA
C6504	VCEA4A1CN108M	J	1000	16V	Electrolytic	AD
C6507	VCKYCY1HB103KY	J	0.0	50V	Ceramic	AA
C6508	VCKYCY1CB473KY	J	0.047	16V	Ceramic	AA
C6509	VCEA4A1CN108M	J	1000	16V	Electrolytic	AD
C6510	RC-FZA034WJZZ	J	0.15	250V	Film	AE
C6511	RC-FZA034WJZZ	J	0.15	250V	Film	AE

RESISTORS

R6500	VRS-TW2ED182JY	J	1.8k	1/4W	Metal Oxide	AA
R6502	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R6503	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6504	VRS-TW2ED182JY	J	1.8k	1/4W	Metal Oxide	AA
R6506	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R6507	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R6510	VRS-TW2ED152JY	J	1.5k	1/4W	Metal Oxide	AB
R6511	VRS-TW2ED152JY	J	1.5k	1/4W	Metal Oxide	AB

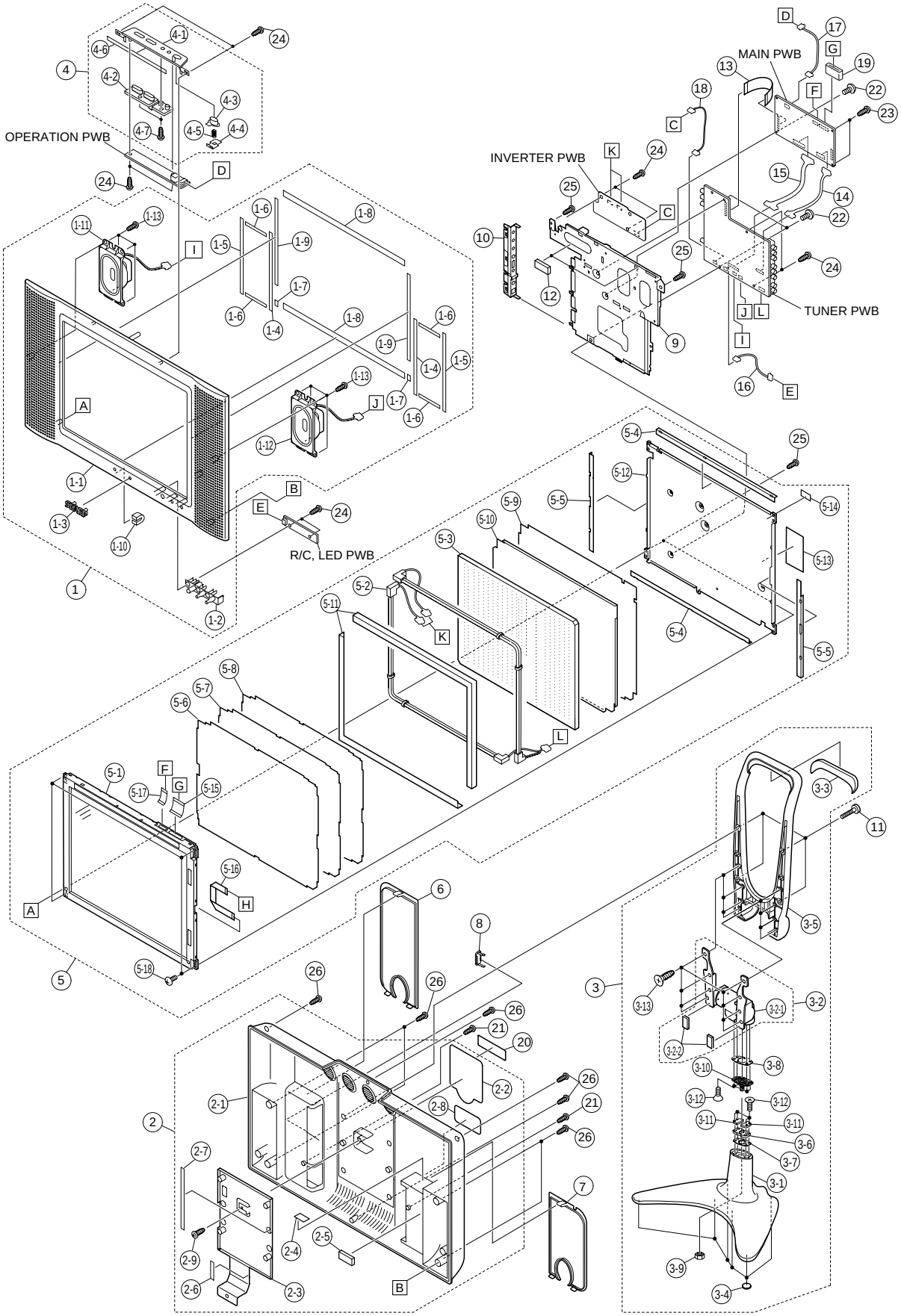
MISCELLANEOUS PARTS

⚠ F6500	QFS-D0006CEZZ	J	Fuse, 1.25A/250V	AF
⚠ F6501	QFS-D0006CEZZ	J	Fuse, 1.25A/250V	AF
FH6500	QFSHD1002CEZZ	J	Fuse Holder	AA
FH6501	QFSHD1002CEZZ	J	Fuse Holder	AA
FH6502	QFSHD1002CEZZ	J	Fuse Holder	AA
FH6503	QFSHD1002CEZZ	J	Fuse Holder	AA
P6500	QPLGN0155FJZZY	J	Plug, 3-pin(HL1)	AE
P6501	QPLGN0155FJZZY	J	Plug, 3-pin(HL2)	AE
P6502	QPLGN0378GEZZ	J	Plug, 3-pin(VE)	AB
	QCNW-A385WJZZ	J	Connecting Cord(VE)	AE

CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	CCABAA344WJ01	J	Cabinet A Ass'y(LC-13B4U-S)	BF
1	CCABAA344WJ02	J	Cabinet A Ass'y(LC-13B4U-B)	BF
1-1	*Not Available*	–	Cabinet A	—
1-2	GCOVA2020CEZZ	J	R/C, LED Cover	AF
1-3	HBDGBA013WJSA	J	"SHARP" Badge	AK
1-4	PSPAG0402CEZZ	J	Spacer, x2	AB
1-5	PSPAGA124WJZZ	J	Spacer, x2	AB
1-6	PSPAGA125WJZZ	J	Spacer, x4	AB
1-7	PSPAH0606CEZZ	J	Spacer, x2	AD
1-8	PSPAH0678CEZZ	J	Spacer, x2	AA
1-9	PSPAH0719CEZZ	J	Spacer, x2	AC
1-10	QEARZ0047CEZZ	J	Grounding Part	AC
1-11	RSP-Z0131CEZZ	J	Speaker(L)	AR
1-12	RSP-Z0132CEZZ	J	Speaker(R)	AR
1-13	XETSD40P12000	J	Screw, x8	AB
2	CCABBA232WJ01	J	Cabinet B Ass'y(LC-13B4U-S)	BA
2	CCABBA232WJ03	J	Cabinet B Ass'y(LC-13B4U-B)	BA
2-1	*Not Available*	–	Cabinet B	—
2-2	HiNDPA448WJSA	J	Model Label(LC-13B4U-S)	AG
2-2	HiNDPA450WJSA	J	Model Label(LC-13B4U-B)	AG
2-3	LANGT9031CEFW	J	Reinforcement Angle	AM
2-4	PCOVZA020WJZZ	J	Insulating Cover	AD
2-5	PMLT-0401CEZZ	J	Spacer, x1	AB
2-6	PSPAHA222WJZZ	J	Spacer, x1	AB
2-7	PSPAHA226WJZZ	J	Spacer, x1	AC
2-8	TCAUH3096CESA	J	Caution Label(LC-13B4U-S)	AE
2-8	TCAUH3096CESB	J	Caution Label(LC-13B4U-B)	AE
2-9	XEBSD30P08000	J	Screw, x1	AA
3	CDAi-A040WJ01	J	Stand Ass'y(LC-13B4U-S)	BL
3	CDAi-A040WJ02	J	Stand Ass'y(LC-13B4U-B)	BM
3-1	GDAi-A040WJSA	J	Stand, Base(LC-13B4U-S)	AW
3-1	GDAi-A040WJSB	J	Stand, Base(LC-13B4U-B)	AW
3-2	CDAi-1121CE02	J	Stand Joint Ass'y (LC-13B4U-S)	BA
3-2	CDAi-1121CE04	J	Stand Joint Ass'y (LC-13B4U-B)	BA
3-2-1	*Not Available*	–	Stand Joint	—
3-2-2	PSPAZA083WJZZ	J	Spacer, x2	AB
3-3	GCOVA1945CESA	J	Stand Grip	AK
3-4	GLEGGA010WJZZ	J	Leg, x6	AC
3-5	JHNDP0105CESA	J	Stand Handle(LC-13B4U-S)	AW
3-5	JHNDP0105CESB	J	Stand Handle(LC-13B4U-B)	AW
3-6	LANGG1196CEFW	J	Swivel Hinge	AF
3-7	LANGG1198CEFW	J	Fixing Metal	AE
3-8	LANGG1199CEFW	J	Fixing Metal	AD
3-9	LX-NZ3185CEFE	J	Nut, x1	AC
3-10	MHNG-3051CEFW	J	Hinge	AV
3-11	PSPAHA126WJZZ	J	Spacer, x2	AC
3-12	XESSD40P14000	J	Screw, x8	AB
3-13	XESSN40P10000	J	Screw, x8	AB
4	CCOVAA434WJ03	J	Top Cover Ass'y (LC-13B4U-S)	AS
4	CCOVAA434WJ04	J	Top Cover Ass'y (LC-13B4U-B)	
4-1	*Not Available*	–	Top Cover	—
4-2	JBTN-A087WJKA	J	Power Button	AL
4-3	JBTN-A088WJKA	J	Control Button	AF
4-4	LHLDZA027WJKZ	J	Power Button Holder	AE
4-5	MSPRCA014WJFW	J	Spring, for Power Button	AB
4-6	PSPAHA228WJZZ	J	Spacer, x1	AC
4-7	XEBSD30P08000	J	Screw, x2	AA
5	*Not Available*	–	13" LCD Panel Unit Ass'y	—
5-1	RLCDTA012WJN1	J	13" LCD Panel Unit	CT
⚠ 5-2	KLMP-0120CEZZ	J	Lamp Unit	BD
5-3	PGiDM0069CEZZ	J	Light Guide Panel	AZ
5-4	PMiR-0292CEZZ	J	Reflection Mirror(L), x2	AG
5-5	PMiR-0293CEZZ	J	Reflection Mirror(S), x2	AF
5-6	PSHEP0276CEZZ	J	Reflection/Deflection Sheet	BB
5-7	PSHEP0277CEZZ	J	Prism Sheet	AV
5-8	PSHEP0278CEZZ	J	Diffusion Sheet	AL
5-9	PSHEP0279CEZZ	J	Reflection Sheet-1	AG
5-10	PSHEP0280CEZZ	J	Reflection Sheet-2	AG
5-11	PSHEP0306CEZZ	J	Reflection Sheet(Cover), x2	AC
5-12	PSLDM4684CEFW	J	Back Shield	AQ
5-13	PSLDMA273WJZZ	J	Shield, x1	AG
5-14	PSPAH0718CEZZ	J	Spacer, x1	AB
5-15	QCNW-6065CEZZ	J	Connecting Cord	AC
5-16	QCNW-6066CEZZ	J	Connecting Cord	AE
5-17	QCNW-B642WJQZ	J	Connecting Cord	AG
5-18	XBBSD30P05000	J	Screw, x4	AA
6	GCOVA2023CEKA	J	Terminal Cover(L) (LC-13B4U-S)	AL
6	GCOVA2023CEKC	J	Terminal Cover(L) (LC-13B4U-B)	AL
7	GCOVA2059CEKA	J	Terminal Cover(S) (LC-13B4U-S)	AK
7	GCOVA2059CEKC	J	Terminal Cover(S) (LC-13B4U-B)	AK
8	GCOVAA204WJKA	J	Decoration Cover (LC-13B4U-S)	AD
8	GCOVAA204WJKB	J	Decoration Cover (LC-13B4U-B)	AD
9	GCOVA2104CEKA	J	Chassis Frame(LC-13B4U-S)	AN
9	GCOVA2104CEKB	J	Chassis Frame(LC-13B4U-B)	AN
10	GCOVAA409WJKA	J	Chassis Frame Cover (LC-13B4U-S)	AG
10	GCOVAA409WJKB	J	Chassis Frame Cover (LC-13B4U-B)	AP
11	LX-BZ3442CEFF	J	Screw, x4	AB
12	PSPAGA024WJZZ	J	Spacer, x2	AB
13	QCNW-6068CEZZ	J	Connecting Cord(MA)	AD
14	QCNW-B233WJZZ	J	Connecting Cord(MC)	AN
15	QCNW-B321WJZZ	J	Connecting Cord(MB)	AH
16	QCNW-B323WJZZ	J	Connecting Cord(MR)	AG
17	QCNW-B543WJZZ	J	Connecting Cord(MS)	AE
18	QCNW-A385WJZZ	J	Connecting Cord(VE)	AE
19	RCORFA009WJZZ	J	Core	AH
20	*Not Available*	–	Serial No. Label	—
21	XBBSF30P05000	J	Screw, x2	AB
22	XBPSN30P09JS0	J	Screw, x3	AB
23	XEBSD30P06000	J	Screw, x2	AA
24	XEBSD30P08000	J	Screw, x10	AA
25	XEBSD30P12000	J	Screw, x4	AA
26	XEBSF30P14000	J	Screw, x8	AA

CABINET AND MECHANICAL PARTS



1	2	3	4	5	6

Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

	LHLDWA002WJSA	J	Cable Clamp, x2 (LC-13B4U-S)	AD
	LHLDWA002WJSB	J	Cable Clamp, x2 (LC-13B4U-B)	AC
⚠	QACCD3097CEPA	J	AC Cord	AQ
	QCNWG0003CEPA	J	Antenna Cable	AM
	RRMCGA152WJSA	J	Infrared R/C Unit (LC-13B4U-S)	AT
	RRMCGA152WJSB	J	Infrared R/C Unit (LC-13B4U-B)	AT
	TCADEA028WJZZ	J	Questionnaire Card	AE
	TiNS-A689WJZZ	J	Operation Manual	AS
⚠	UADP-A009WJPZ	J	AC Adapter	BG

SERVICE JIGS
(USE FOR SERVICING)

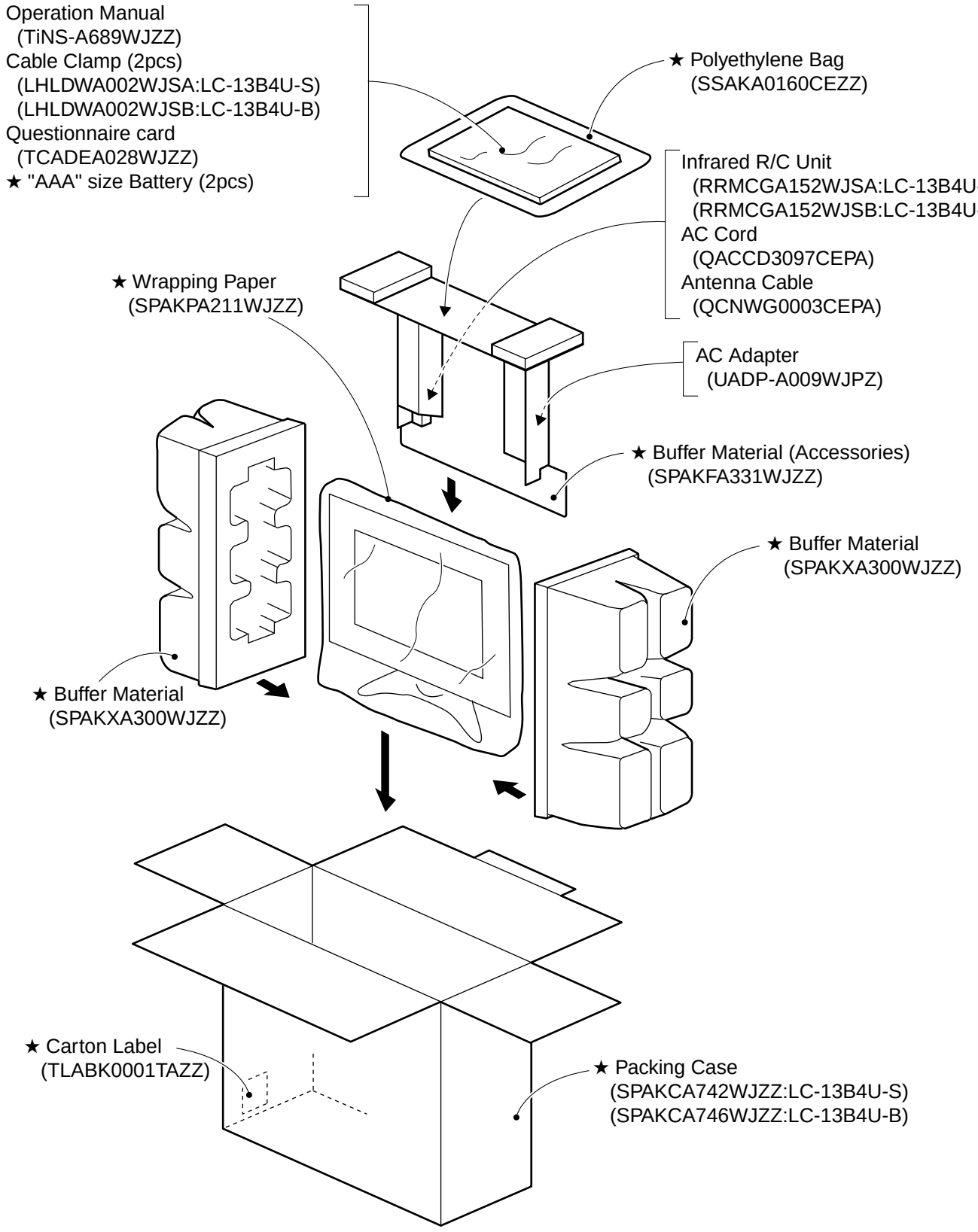
	QCNW-A553WJZZ	J	Extension Cable, 30-pin (SC1204-LCD)	BA
	QCNW-A555WJZZ	J	Extension Cable, 20-pin (SC1202-LCD)	AU
	QCNW-A556WJZZ	J	Extension Cable, 50-pin, x2 (SC2002-SC3403) (SC1203-LCD)	AU
	QCNW-B194WJZZ	J	Extension Cable, 12-pin (P701-P3701)	AU

Ref. No.	Part No.	★	Description	Code

PACKING PARTS
(NOT REPLACEMENT ITEM)

	SPAKCA724WJZZ	–	Packing Case(LC-13B4U-S)	—
	SPAKCA726WJZZ	–	Packing Case(LC-13B4U-B)	—
	SPAKFA331WJZZ	–	Buffer Material(Accessories)	—
	SPAKPA211WJZZ	–	Wrapping Paper	—
	SPAKXA300WJZZ	–	Buffer Material	—
	SSAKA0160CEZZ	–	Polyethylene Bag	—
	TLABK0001TAZZ	–	Carton Label	—

PACKING OF THE SET



★Not Replacement Item

SHARP

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MI. KG

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