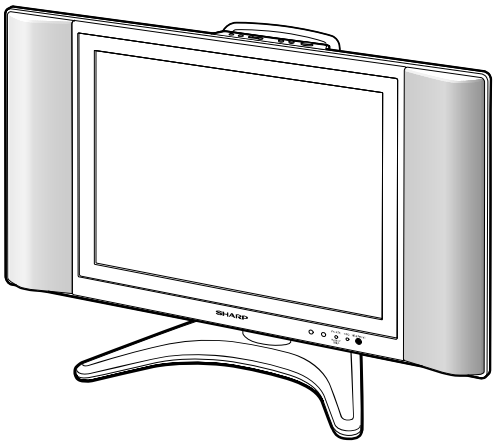
SHARP SERVICE MANUAL

S64T8LC20B6US



LCD COLOR TELEVISION

MODEL LC-20B6U-S

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

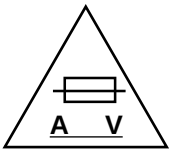
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

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.



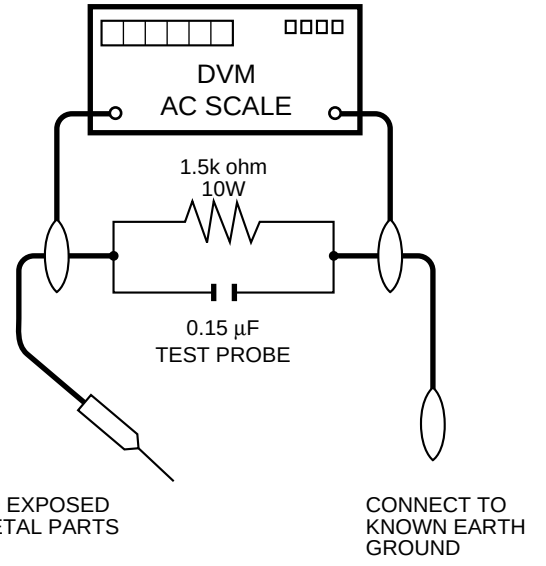
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F3701 (2.0A, 250V), F3702 (1.25A, 250V), AND F6701 (6.3A, 250V) FUSE.

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

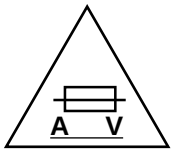
Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
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.



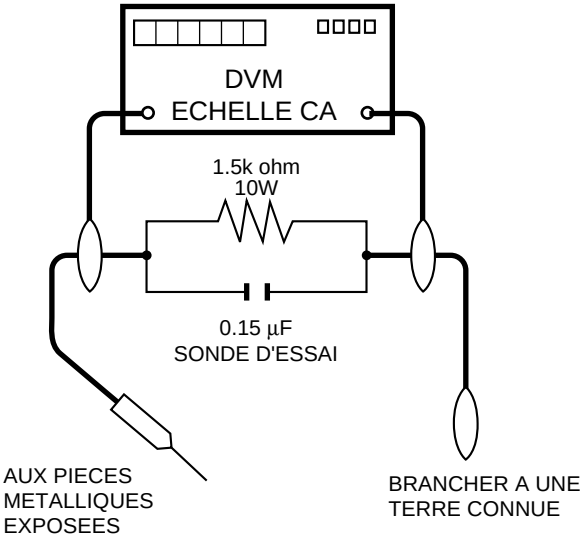
PRECAUTION: POUR LA PROTECTION CONTINUE CONTRE LES RISQUES D'INCENDIE, REMPLACER LE FUSIBLE PAR UN FUSIBLE DE MEME TYPE F3701 (2.0A, 250V), F3702 (1.25A, 250V) F6701 (6.3A, 250V).

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

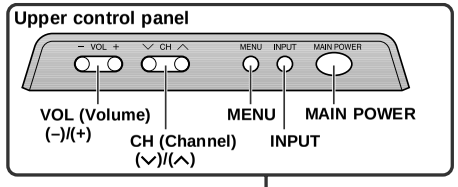
SPECIFICATIONS

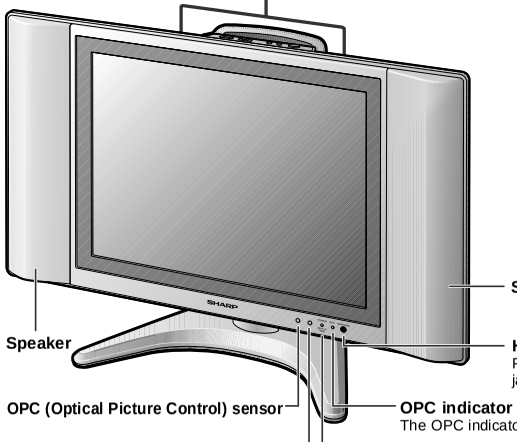
Items \ Model		LC-20B6U
LCD panel		20.1" Advanced Super View & BLACK TFT LCD
Number of dots		2,359,296 dots XGA
Video color systems		N358, N443, PAL, PAL-M, PAL-N, SECAM, PAL-60
TV function	TV Standard (CCIR)	NTSC/PAL-M/PAL-N
	TV Tuning System	PLL 181 ch.
	STEREO	MTS+SAP
	CATV	125 ch.
Y/C FILTER		3D Y/C FILTER
Brightness		430 cd/m^2
Viewing angles		H: 170° V: 170°
Audio amplifier		2.1 W × 2
Speakers		ø2.1 in. (ø5.7 cm), 2 pcs.
Terminals	COMPONENT1	COMPONENT1-IN, AUDIO-IN
	COMPONENT2/AV1	COMPONENT2/AV1-IN, AUDIO-IN, S-VIDEO-IN
	AV-IN2	AV-IN2/AV-OUT
	PC-IN	PC Connector: 15-pin mini D-sub PC AUDIO: Mini-jack for stereo (ø3.5 mm)
	Antenna	F-Type
	Headphone	Mini-jack for stereo (ø3.5 mm)
OSD language		English/Spanish/French
Power supply		DC 12V, AC 110-240V, 50/60Hz (AC adapter), AC 110-125V (AC cord)
Power consumption		81 W (0.5 W standby) :AC 120V
		71 W: DC 12V
Weight		19.0 lbs. (8.6 kg), w/o accessories
Accessories		Remote control, Battery (× 2), Antenna cable, AC adapter, RGB cable, AC cord, Cable holder, Cable clamp, Operation manual, Registration card

■ 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.

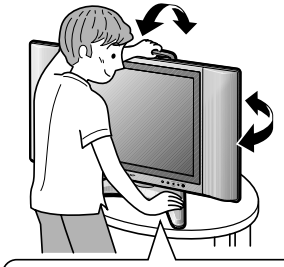
Part Names of Main Unit

Controls





■ How to adjust the angle



Tilt the display by grabbing onto the carrying handle while securely holding down the stand with your other hand.

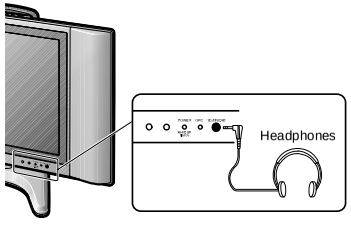
To change the vertical angle of the LCD TV set, tilt the screen up to 5 degrees forward or 10 degrees backward. The LCD TV set can also be rotated up to 25 degrees to right and left. Please adjust the angle so that the LCD TV set can be watched most comfortably.

NOTE

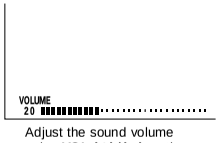
- **INPUT**, **CH (∨)/(∧)**, **VOL (–)/(+)** and **MENU** on the main unit have the same functions as the same buttons on the remote control. Fundamentally, this operation manual provides a description based on operation using the remote control.

Listening with Headphones

- Plug the headphone mini-plug into the HEADPHONE jack located on the rear of the main unit.



▼On-screen display



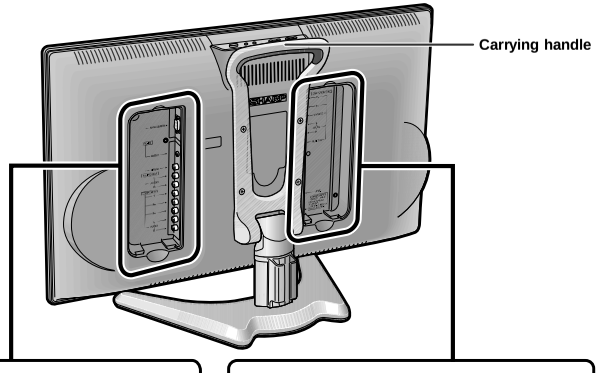
Adjust the sound volume using **VOL (+)/(–)** on the remote control.

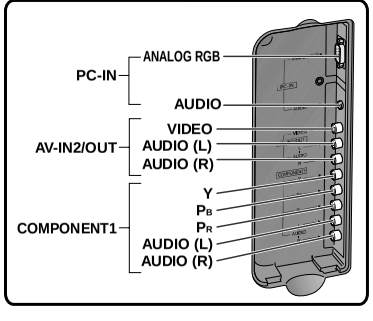
NOTE

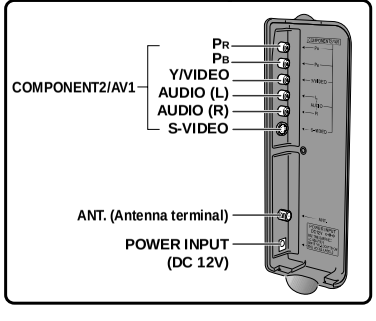
- Headphones are not included in the supplied accessories.
- No sound is heard from the main unit speakers when a headphone mini-plug is connected into the HEADPHONE jack.

Terminals

Rear View

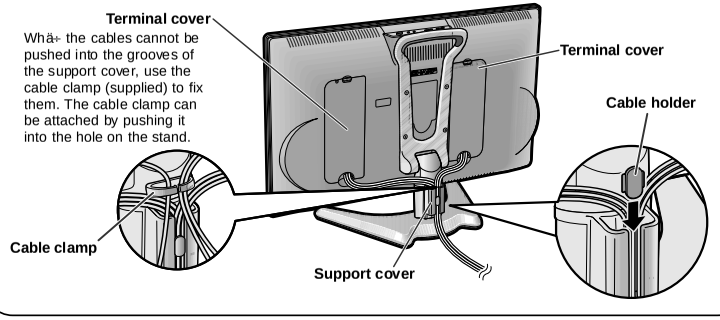




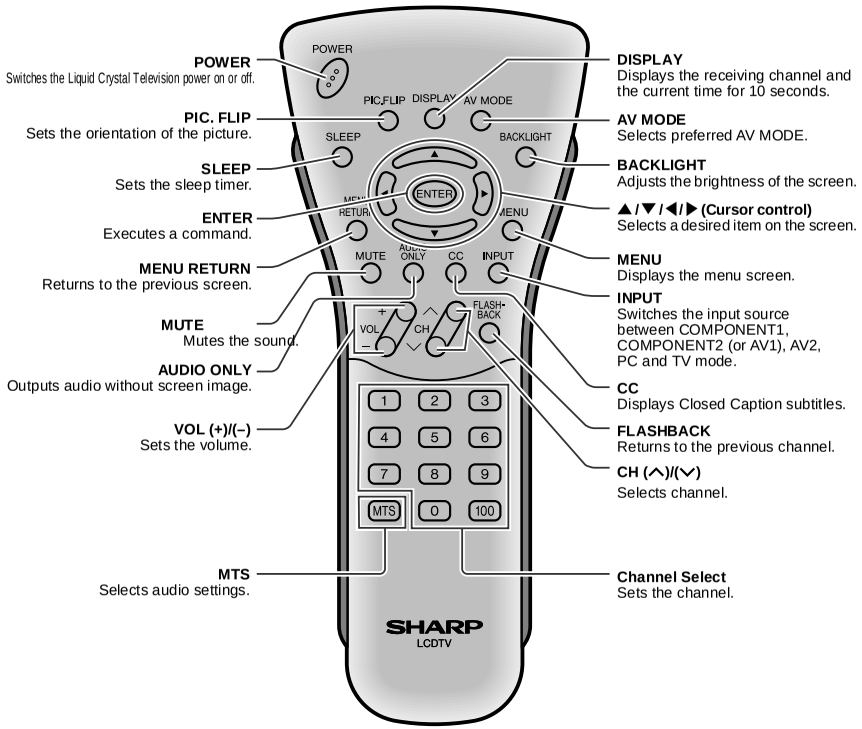


How to Fix the Cables

- Pull the cables connected to each terminal through the holes and close the left and right terminal covers. Push the cables into the grooves of the support cover. Insert the cable holder (supplied) from above the support cover and fix the cables.



Part Names of Remote Control



POWER
Switches the Liquid Crystal Television power on or off.

PIC. FLIP
Sets the orientation of the picture.

SLEEP
Sets the sleep timer.

ENTER
Executes a command.

MENU RETURN
Returns to the previous screen.

MUTE
Mutes the sound.

AUDIO ONLY
Outputs audio without screen image.

VOL (+)/(–)
Sets the volume.

MTS
Selects audio settings.

DISPLAY
Displays the receiving channel and the current time for 10 seconds.

AV MODE
Selects preferred AV MODE.

BACKLIGHT
Adjusts the brightness of the screen.

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

MENU
Displays the menu screen.

INPUT
Switches the input source between COMPONENT1, COMPONENT2 (or AV1), AV2, PC and TV mode.

CC
Displays Closed Caption subtitles.

FLASHBACK
Returns to the previous channel.

CH (∧)/(∨)
Selects channel.

Channel Select
Sets the channel.

TV Signals in Your Region

This product is factory set to comply with the TV broadcasting system in the United States. For Brazil, Argentina and Uruguay, set the color system according to the country before using this product by following the table below.

Country	TV broadcasting system	Factory setting of color system		User setting
		TV	Video	TV/Video
U.S.A.	Color: NTSC TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Not required or N/A
Canada, Mexico, Latin America	Color: NTSC TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Not required or N/A
Brazil	Color: PAL-M TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Set color system to PAL-M
Argentina, Uruguay	Color: PAL-N TV ch: US ch	NTSC (N358) US ch	NTSC (N358) US ch	Set color system to PAL-N

NOTE

- The 3 Dimensional Y/C separation circuit* only works when the color system is set to N358 in TV mode and Video mode.
  * The 3 Dimensional Y/C separation circuit is used to remove flickering and color bleeding.
  * The 3 Dimensional Y/C separation circuit does not function when S-VIDEO or COMPONENT signals are played.

Preparation

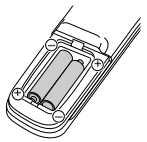
Installing Batteries in the Remote Control

Before using the LCD TV set for the first time, install the two “AAA” size batteries supplied in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size batteries.

1 Open the battery cover.

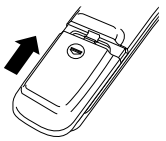
■ Slide the cover while pressing the (▾) part.

2 Insert two “AAA” size batteries.



■ Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

3 Close the battery cover.



■ Engaging the lower claw with the remote control, close the cover.

⚠ Caution!

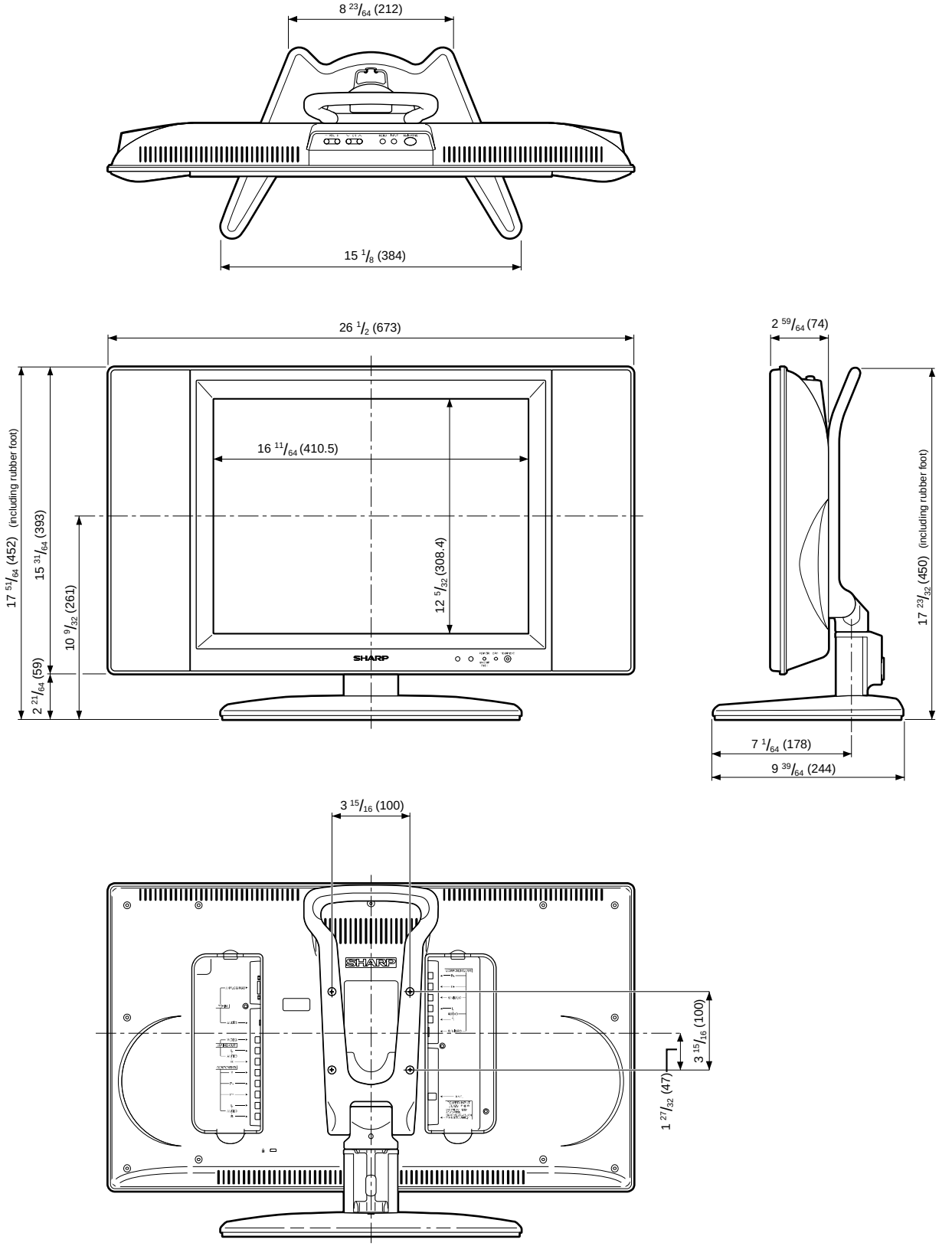
Precautions regarding batteries

■ Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Place batteries with their terminals corresponding to the (+) and (–) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the LCD TV set may have a shorter operating time due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

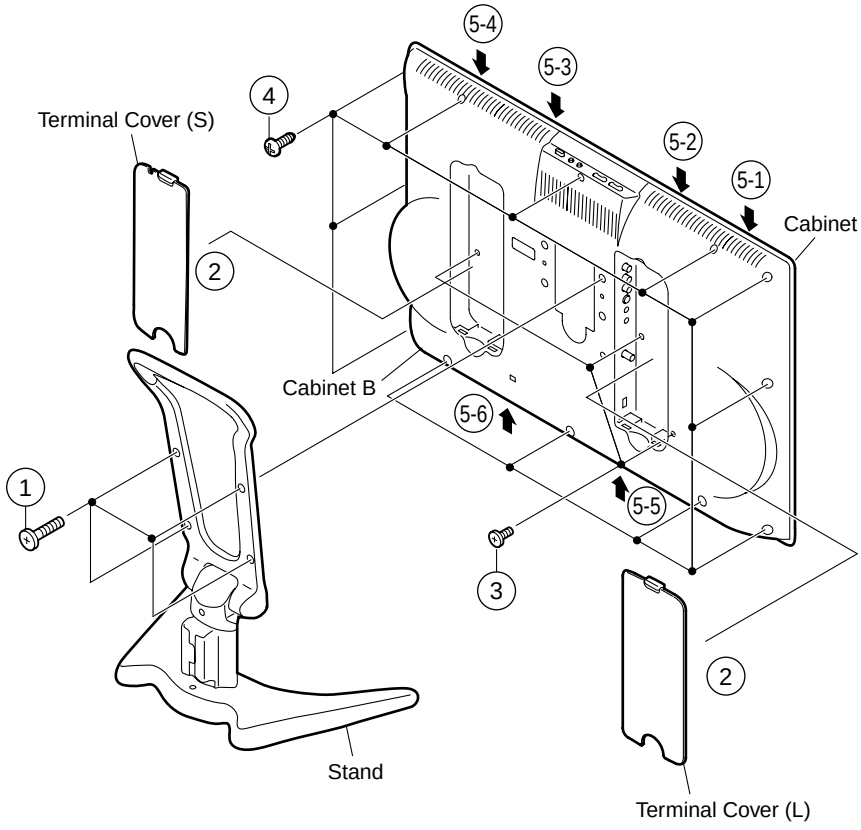
DIMENSIONS

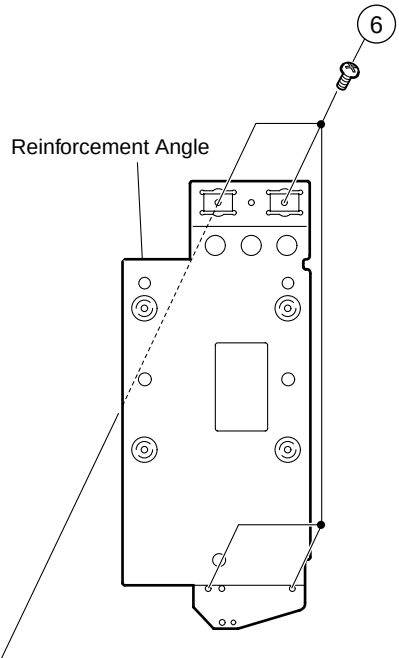
Unit: inch (mm)

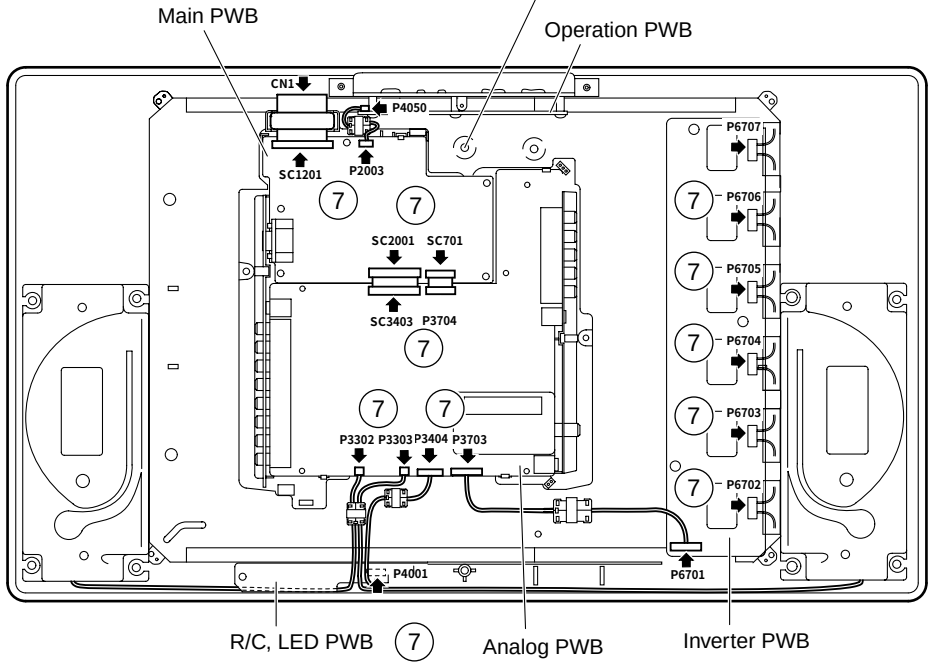


REMOVING OF MAJOR PARTS

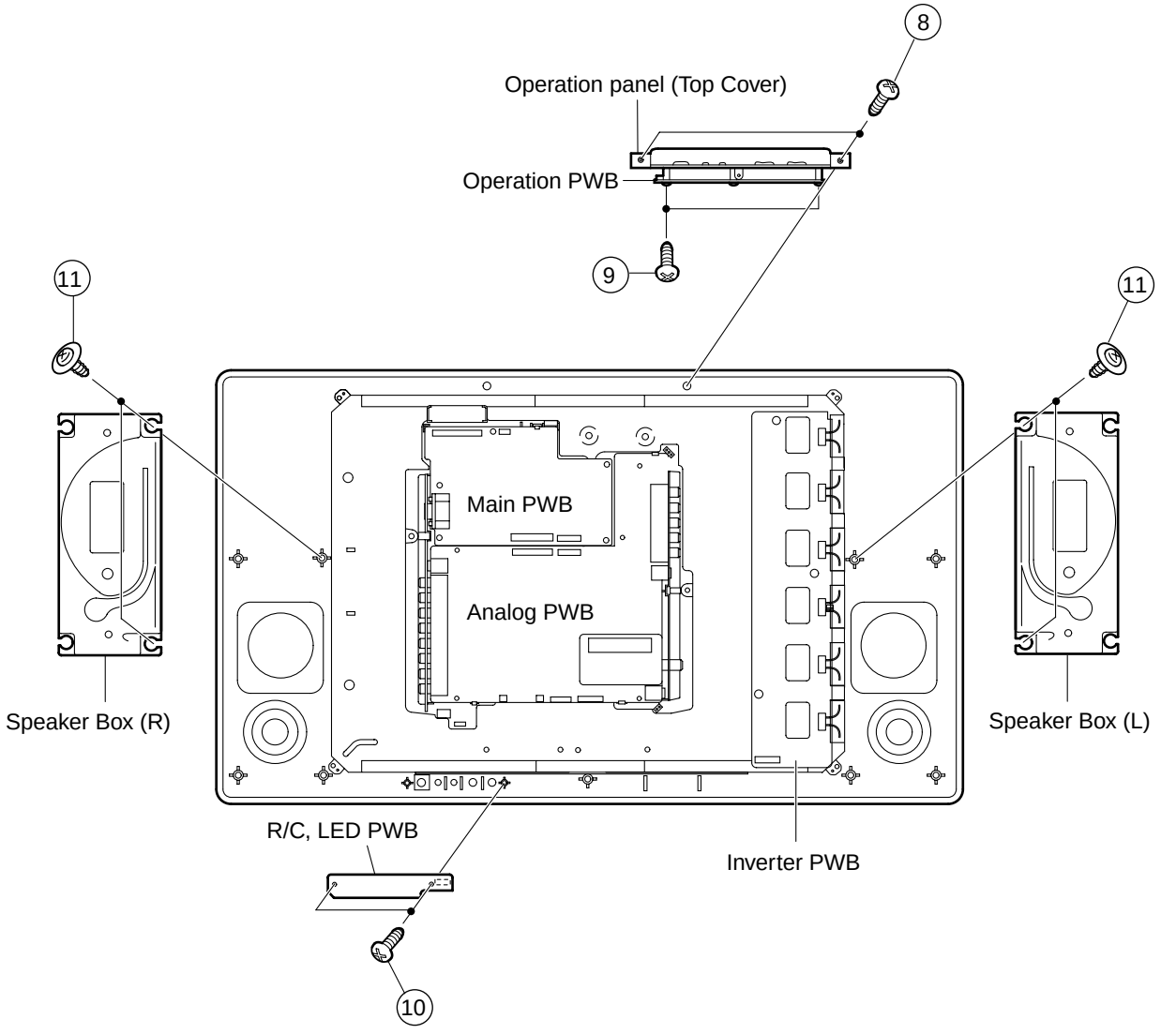
1. Remove the four lock screws from the stand, and detach the stand.
2. Remove the terminal covers (left and right).
3. Remove the three terminal screws.
4. Remove the twelve lock screws from the cabinet B.
5. Cabinet A is order of (5-1) thru (5-6) , and detach the cabinet B.
6. Remove the four lock screws from the stand angle, and detach the reinforcement angle.
7. Disconnect all the connectors from all the PWBs.





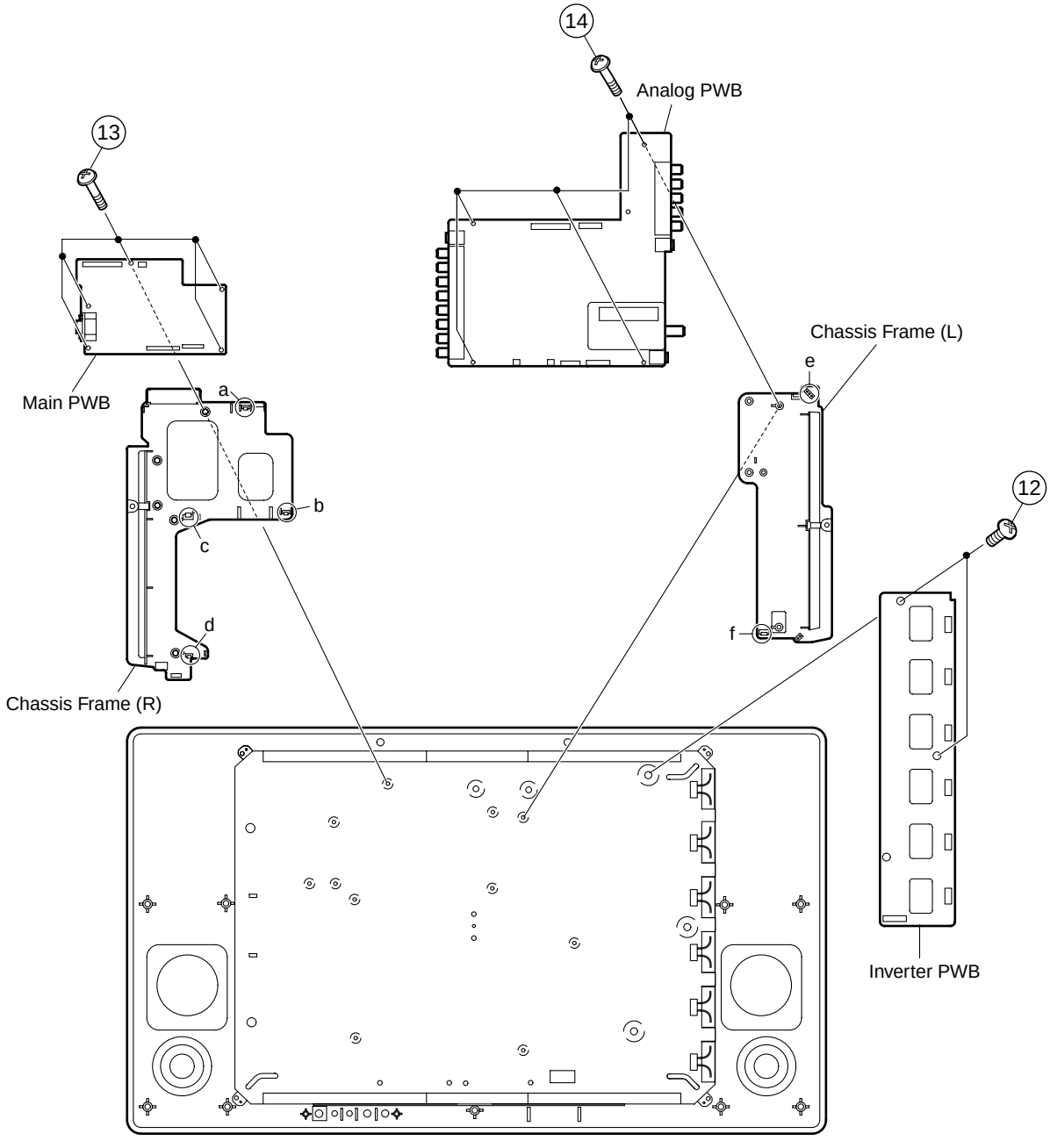


8. Remove the two lock screws from the operation panel (top cover), and detach the operation panel (top cover).
9. Remove the two lock screws from the operation PWB, and detach the operation PWB.
10. Remove the two lock screws from the R/C, LED PWB, and detach the R/C, LED PWB.
11. Remove the two lock screws each from the speaker boxes (left and right), and detach both the speaker boxes.



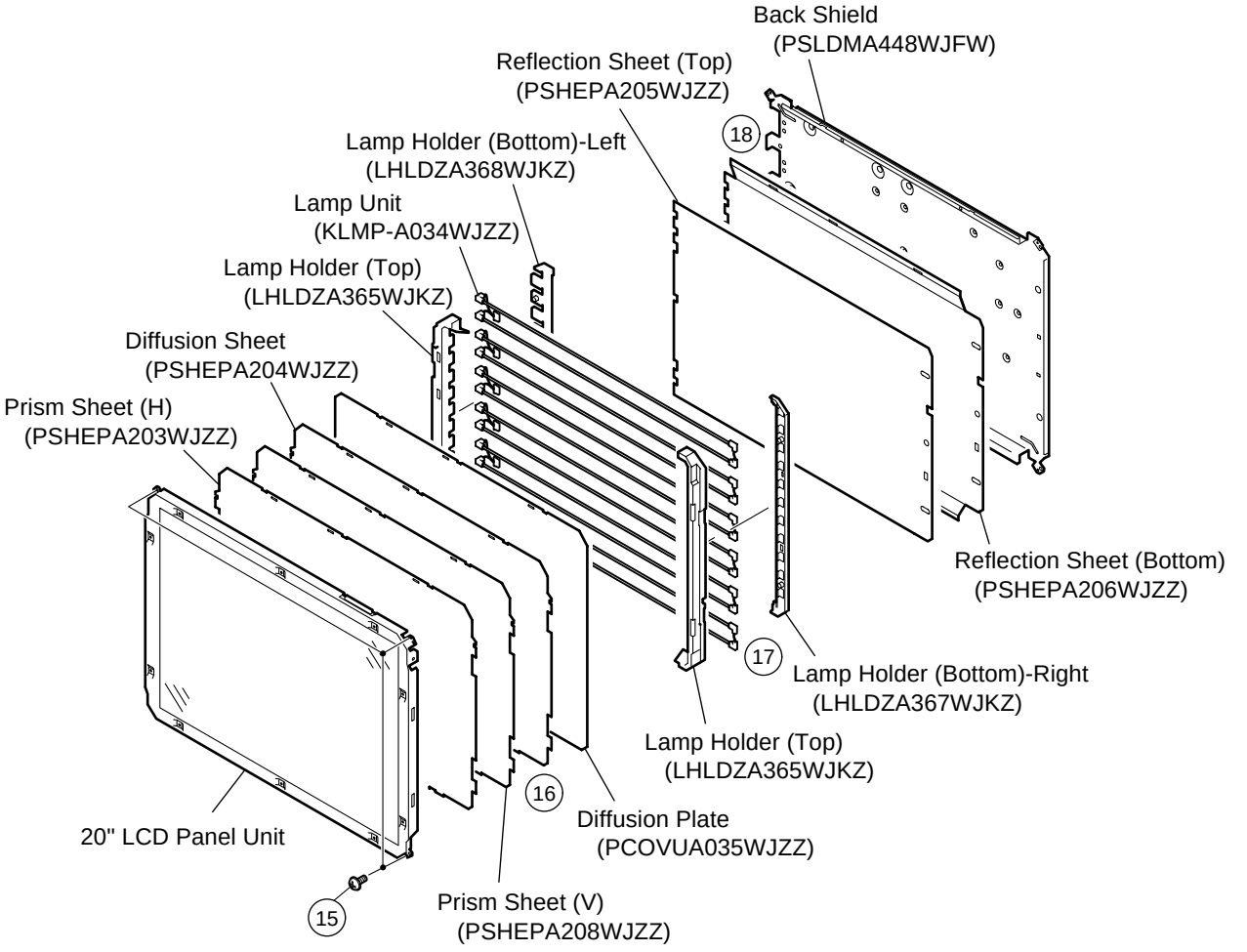
12. Remove the two lock screws from the inverter PWB, and detach the inverter PWB.
13. Remove the five lock screws from the main PWB, and undo the claws a and b. Detach the main PWB by lifting the area around the claws and pulling the PWB out.
14. Remove the four lock screws from the analog PWB, and undo the claws c and d. Detach the chassis frame (right) from the analog PWB by pulling out the terminals. In the same way, undo the claws e and f, and detach the chassis frame (left) from the analog PWB by pulling out the terminals.

Note: When detaching the main PWB and analog PWB, be careful not to break the PWB-fixing claws.



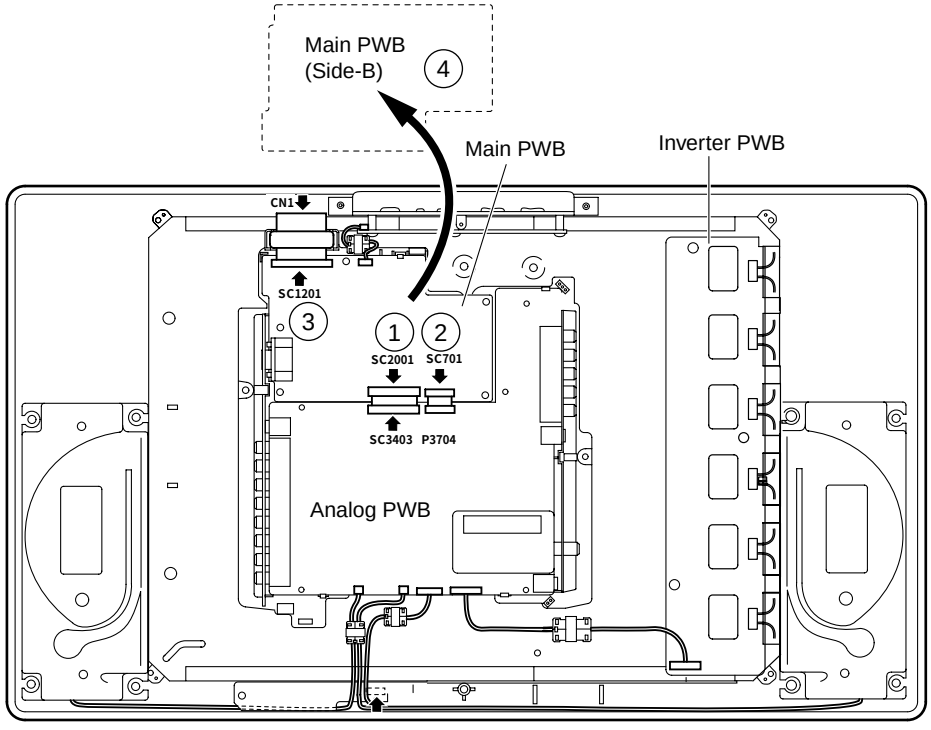
- Precautions in handling the liquid crystal panel
  1. Handle it in a clean room. (above 50% humidity)
  2. The worker must wear an earth band.
  3. Be careful not to drop, vibrate and shock the panel.
  4. Use an ionizer. (within 30 cm)

15. Remove the three lock screws from the liquid crystal panel, and detach the liquid crystal panel unit.
16. Remove the prism sheet (H), (V), diffusion sheet and diffusion plate.
17. Remove the lamp unit from the lamp holder (top). Then detach the (bottom)-left and (bottom)-right lamp holders.
18. Remove the upper and lower reflection sheets from the back shield.



●Precautions in servicing the B side (backside) of the main PWB unit

1. Disconnect the FFC from between the main PWB (SC2001) and the analog PWB (SC3403), and then connect the service-specific extension FFC (flat cable) (QCNW-C459WJQZ).
2. Disconnect the SC701 side of the lead from between the main PWB (SC701) and the analog PWB (P3704), and then connect the service-specific extension cord (QCNW-B461WJQZ).
3. Disconnect the FFC for connection between the main PWB (SC1201) and LCD panel unit, and then connect the service-specific extension FFC (flat cable) (QCNW-C458WJQZ).
4. Remove the lock screws from the main PWB, detach the PWB from the chassis frame, and then turn it over to service.



Step	Part No.	Description
1	QCNW-C459WJQZ	Extension Cable 60-pin Main (SC2001)-Analog (SC3403)
2	QCNW-C461WJQZ	Extension Cable 15-pin Main (SC701)-Analog (P3704)
3	QCNW-C458WJQZ	Extension Cable 80-pin Main (SC1201)-LCD Panel

ADJUSTING PROCEDURE OF EACH SECTION

1. Pre-adjustment preparations

Use the specific AC adaptor or a stable DC power supply as power source.
LC-20B6U AC adapter: UADP-A065WJPZ
DC power supply: 12 (V), 6.6 (A) or more

(1) How to enter the adjustment process mode
The following two methods are available.
- While holding down the "INPUT" and "VOLUME (–)" keys on the set, turn ON the power and press the "CH (∨)" and "VOLUME (–)" keys at once.
- Turn ON the power with either of KEY4 (pin (81) of microprocessor) and KEY5 (pin (82) of microprocessor) staying at "L".

(2) Key operation in adjustment process

■ **Basic operation**
- Select a station with the station-selection UP/DOWN key.
- Switch the input with the input selector key.
- Using the cursor UP/DOWN key, select an item to be adjusted. (When the cursor DOWN key is pressed with the cursor placed on the bottom item, the cursor will move to the top item on the next page. When the cursor UP key is pressed with the cursor placed on the top item, the cursor will move to the bottom item on the previous page.)
- Adjust the selected item with the volume UP/DOWN key or the cursor RIGHT/LEFT key
- Pressing the menu key will move the cursor to the next item. (When the menu key is pressed with the cursor placed on the bottom item, the cursor will move to the top item on the next page.)
- Pressing the manual memory key will return the cursor to the top item. (When the manual memory key is pressed with the cursor placed on the top item, the cursor will move to the top item on the previous page.)
- Pressing the auto preset key will move the cursor to the top item on the next page.

■ **Hierarchical structure**
- When the ENTER key is pressed with the cursor placed on an item other than I^2C DATA on page 9, the setting page corresponding to the selected item will appear.
- To exit each setting page, press the "Previous Screen" key.

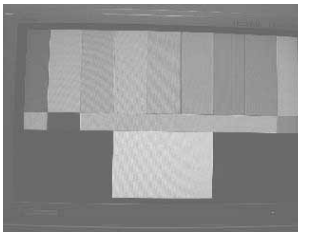
Initialization
1. Set both pins (81) and (82) of IC2001 (microprocessor) to GND and turn ON the power
2. Check the model name (A625). *Note: MODEL cannot be changed.
3. Inch size selection
   Check INCH SIZE (20) * Note: INCH SIZE cannot be changed.

2.Adjusting procedure

(1)AD converter level adjustment

① D3 input

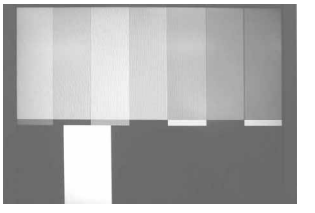
1) D3 75% color bar signal input
   Device name: LEADER LT446
   Signal name: COLOR BAR 75%
   Setting: 01: 1920 x 1080 / 60i
   H: 33.72kHz, V: 29.97Hz



2) Set AUTO GAIN-OFFSET1 on page 7 of the adjustment process menu to ON.

② PC input

1) VGA 75% color bar signal input
   Device name: LEADER LT446
   Signal name: COLOR BAR 75%
   Setting: 07: 640 x 480 / 60P
   H: 31.47kHz, V: 59.94Hz



2) Set AUTO GAIN-OFFSET2 on page 8 of the adjustment process menu to ON.

(2) Adjustment of TAMP

1) 75% standard color bar signal reception

2) If the reading of "YDATA" on page 2 of the adjustment process menu falls outside the range shown in the table below, adjust "NTSC TAMP" on this page so that the reading of "YDATA" falls within this range.
   * Note that settings may vary with models.

3) Set "PAL-M TAMP" and "PAL-N TAMP" to the same value to which "NTSC TAMP" is set.

Model	LC-20B6U-S
Setting	157-160

Reference
(Page 2 of adjustment process menu)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0	2																										
1		▶	C	O	M		B	I	A	S												4	2	7			
2			T	A	M	P		L														1	5	7			
3			Y	D	A	T	A															1	5	9			
4			T	A	M	P		H														1	6	0			
5			N	T	S	C		T	A	M													9	5			
6			P	A	L	-	M		T	A	P												9	5			
7			P	A	L	-	N		T	A	P												9	5			
8																											

Y Data
(White 75%)

(3) Adjustment of white balance

1) How to adjust the white balance

① Select the component -480i input.
② Adjust "R CUTOFF2" and "B CUTOFF2" so that "White 20%" takes on the following WB target values.
Caution: "G CUTOFF2" should be fixed.
③ Adjust two strong colors of "R/G/B-GAIN" downward so that "White 80%" takes on the WB target values.
Caution: Any one of "R/G/B-GAIN" should be fixed at 64.
④ Repeat steps ② and ③ so that "White 20%" and "White 80%" takes on the target values.
⑤ Enter the values of "R/B_CUTOFF2" and "R/G/B-GAIN" set in steps ② to ④ in the corresponding items of "Composite adjustment", "Component -1080i adjustment" and "PC-VGA adjustment" shown below.
⑥ Select the composite input and check that "White 20%" and "White 80%" are within the inspection specifications on the next page.
Caution: The component Ys output signal of the automatic regulator should be used also when the composite input is selected. In the case of the CVBS output, the signal level is different.
⑦ If "White 20%" and "White 80%" are not within the inspection specifications, make the adjustment described in steps ② to ④.
⑧ Select the component -1080i input and check that "White 20%" and "White 80%" are within the inspection specifications on the next page.
⑨ If "White 20%" and "White 80%" are not within the inspection specifications, make the adjustment described in steps ② to ④.
⑩ Select the PC-VGA input and check that "White 20%" and "White 80%" are within the inspection specifications on the next page.
⑪ If "White 20%" and "White 80%" are not within the inspection specifications, make the adjustment described in steps ② to ④.

2) Adjustment value

- Composite adjustment...RGB CUTOFF2 and RGB-GAIN on page 3 of adjustment process menu
- Component -480i adjustment...A RGB CUTOFF2 and A RGB-GAIN on page 4 of adjustment process menu
- Component -1081i adjustment...D RGB CUTOFF2 and D RGB-GAIN on page 5 of adjustment process menu
- PC-VGA adjustment...PC RGB CUTOFF2 and PC RGB-GAIN on page 5 of adjustment process menu

3) WB target value (numeric values for MINOLTA CA-210)

	Adjustment value	Adjustment specifications
White 80%	x=0.295	±0.006
	y=0.305	±0.006
White 20%	x=0.292	±0.006
	y=0.301	±0.006
Remarks	The numeric values shown above are for MINOLTA CA-210.	

(Reference) White 80%...luminance: 220 cd/m^2, About 8000K
White 20%...luminance: 9 cd/m^2, About 8400K

4) WB adjustment range

R/G/B CUTOFF2: –20 to +20 (G CUTOFF2 fixed at 0)
R/G/B GAIN: 36 to 64 (One of the colors fixed at 64)

3. Factory setting

(1) Factory adjustment procedure

While holding down the "INPUT" and "VOLUME (–)" keys on the set, turn ON the power and press the "CH (∧)" and "VOLUME (+)" keys at once.

(2) DESCRIPTION OF FACTORY SETTINGS

ITEM		SETTING
OTHER THAN MENU		
STARTUP OF EZ SETUP AT POWER-ON		ON
	SELECT LANGUAGE	ENGLISH
	CH-SETTING	ON
	AUTO CLOCK	ON
LAST CHANNEL		2ch
LAST TV/INPUT		TV
FLASH BACK		2ch
VOLUME		20

MENU-PICTURE			FOR STANDARD	FOR MOVIE	FOR GAME
AV MODE		DYNAMIC	OFF	OFF	OFF
OPC		OFF	BRIGHT (17)	BRIGHT (17)	NORMAL(9)
BACKLIGHT		BRIGHT (17)	50	50	50
CONTRAST		56	0	0	0
BRIGHTNESS		0	0	+2	0
COLOR		+2	0	0	0
TINT		0	0	0	0
SHARPNESS		+4			
ADVANCED	COLOR TEMP.	MIDDLE			
	RED	0			
	GREEN	0			
	BLUE	0			
	I/P SETTING	PROGRESSIVE			
	NOISE CLEAN	OFF			
	FILM MODE	OFF			
	QUICK SHOOT	ON			

MENU-AUDIO	
TREBLE	0
BASS	0
BALANCE	0
WIDE SOUND	OFF
SPEECH EMPHASIS	OFF
PC SOUND SELECT	PC

MENU-SETUP				
CH-SETTING	AIR/CABLE			AIR
	CH MEMORY	SKIP		ALL CH ON
MTS				STEREO
CLOCK	SET	AUTO	EDS CH	AUTO
		MENU	DST	OFF
			TIME	12:00AM
	TIME DISPLAY			ON
COMP. 2/AV1 SELECT				COMPONENT2
AV2 IN/OUT				IN
V-CHIP BLOCK	INPUT SECRET NO.			CLEAR
	MPAA	G, PG, PG-13, R, NC-17, X		ALL CLEAR
	TV GUIDELINES	TV-Y, TV-Y7, TV-G, TV-PG, TV-14, TV-MA		ALL CLEAR
		BLOCK CONTENT	D, L, S, V, FV	ALL CLEAR
	CAN. ENGLISH RATINGS	C, C8+, G, PG, 14+, 18+		ALL CLEAR
	CAN. FRENCH RATINGS	G, 8 ans+, 13 ans+, 16 ans+, 18 ans+		ALL CLEAR
	STATUS			OFF
CLOSED CAPTION				OFF
COLOR SYSTEM (FOR TV)				N358
COLOR SYSTEM (FOR AV 1 AND 2)				AUTO
PC SETTING	INPUT SIGNAL			1024 x 768
	FINE SYNC.	H. POS.		0
		V. POS.		0
		CLOCK		0
		PHASE		0
LANGUAGE				ENGLISH

MENU-OPTION		
VIEW MODE		4 : 3
AUDIO ONLY		OFF
SLEEP TIMER		OFF
WAKEUP TIMER	TIMER	OFF
	TIME	12:00AM
	CHANNEL	2
	VOLUME	20
NO SIGNAL OFF		DISABLE
NO OPERATION OFF		DISABLE
POWER MANAGEMENT		OFF
PICTURE FLIP		NORMAL

ADJUSTMENT PROCESS 1st LEVEL ITEM DEFAULT TABLE

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
BASIC SETTING				
1	MODEL	A625	MODEL NAME SELECTION	CANNOT BE CHANGED.
	INCH SIZE	20	INCH SIZE SELECTION	USED FOR INITIALIZATION. MUST NOT BE CHANGED IN OTHER CASES. IF CHANGED, IT IS NECESSARY TO PERFORM DATA REWRITING AND READJUSTING
	ERROR NO RESET	0	LAMP ERROR COUNT & RESET	REFER TO LAMP ERROR DETECTION.
	PUBLIC MODE	OFF	HOTEL MODE SETTING	NOT USED
	V-CHIP	1	VCHIP LINE MUTE SETTING	NOT USED
	CANADIAN VCHIP	ON	CANADIAN VCHIP SETTING	NOT USED
	EXT CONTROL	OFF	BUS UART OPEN	NOT USED
	BLUE BACK	0	BLUE BACKGROUND ON•OFF SETTING	NOT USED
	ROM AND GAIBU VERSION NUMBERS SHOULD BE DISPLAYED AT THE BOTTOM.			
VIDEO ADJUSTMENT				
2	COM BIAS	427	COMMON BIAS ADJUSTMENT	NOT USED
	TAMP L	157	Y LOWER LIMIT SETTING FOR TAMP ADJUSTMENT	NOT USED
	YDATA	—	Y UPPER LIMIT SETTING FOR TAMP ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	TAMP H	160	Y UPPER LIMIT SETTING FOR TAMP ADJUSTMENT	NOT USED
	NTSC TAMP	70	TAMP ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PAL-M TAMP	70	TAMP ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PAL-N TAMP	70	TAMP ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
BACKGROUND ADJUSTMENT				
3	R CUTOFF	0	RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	G CUTOFF	0	GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	B CUTOFF	0	BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	GAIN1	64	WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	GAIN2	64	WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	REF	0	REFERENCE SETTING	REFER TO METHOD OF ADJUSTMENT.
	R CUTOFF2	0	RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	G CUTOFF2	0	GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	B CUTOFF2	0	BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	R-GAIN	64	WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	G-GAIN	64	WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	B-GAIN	64	WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
525I/625I/525P/625P BACKGROUND ADJUSTMENT				
4	A R CUTOFF	0	525I/625I/525P/625P RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A G CUTOFF	0	525I/625I/525P/625P GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A B CUTOFF	0	525I/625I/525P/625P BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A GAIN1	64	525I/625I/525P/625P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A GAIN2	64	525I/625I/525P/625P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A REF	0	525I/625I/525P/625P REFERENCE SETTING	REFER TO METHOD OF ADJUSTMENT.
	A R CUTOFF2	0	525I/625I/525P/625P RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A G CUTOFF2	0	525I/625I/525P/625P GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A B CUTOFF2	0	525I/625I/525P/625P BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A R-GAIN	64	525I/625I/525P/625P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A G-GAIN	64	525I/625I/525P/625P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	A B-GAIN	64	525I/625I/525P/625P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
1125I/750P BACKGROUND ADJUSTMENT				
5	D R CUTOFF	0	1125I/750P RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D G CUTOFF	0	1125I/750P GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D B CUTOFF	0	1125I/750P BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D GAIN1	64	1125I/750P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D GAIN2	64	1125I/750P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D REF	0	1125I/750P PREFERENCE SETTING	REFER TO METHOD OF ADJUSTMENT.
	D R CUTOFF2	0	1125I/750P RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D G CUTOFF2	0	1125I/750P GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D B CUTOFF2	0	1125I/750P BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D R-GAIN	64	1125I/750P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D G-GAIN	64	1125I/750P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	D B-GAIN	64	1125I/750P WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
PC BACKGROUND ADJUSTMENT				
6	PC R CUTOFF	0	PC RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC G CUTOFF	0	PC GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC B CUTOFF	0	PC BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC GAIN1	64	PC WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC GAIN2	64	PC WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC REF	0	PC PREFERENCE SETTING	REFER TO METHOD OF ADJUSTMENT.
	PC R CUTOFF2	0	PC RED CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC G CUTOFF2	0	PC GREEN CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC B CUTOFF2	0	PC BLUE CUTOFF ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC R-GAIN	64	PC WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC G-GAIN	64	PC WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PC B-GAIN	64	PC WHITE BALANCE ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
1125I/750P AD ADJUSTMENT				
7	AD9883 DATA	0	AD9883 DATA WRITE AND READ	NOT USED
	AD9883 DATA	WAIT	WRITE AND READ EXECUTION	NOT USED
	AUTO GAIN-OFFSET1	OFF	AD9883 GAIN AND OFFSET AUTO ADJUSTMENT OFF/RUN	REFER TO METHOD OF ADJUSTMENT.
	AD R GAIN	30	1125I/750P INPUT RED GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	AD G GAIN	125	1125I/750P INPUT GREEN GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	AD B GAIN	30	1125I/750P INPUT BLUE GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	AD R OFFSET	64	1125I/750P INPUT RED OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	AD G OFFSET	50	1125I/750P INPUT GREEN OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	AD B OFFSET	64	1125I/750P INPUT BLUE OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	RGTAR	E0	1125I/750P INPUT RED OFFSET ADJUSTMENT	NOT USED
	GGTAR	98	1125I/750P INPUT GREEN OFFSET ADJUSTMENT	NOT USED
	BGTAR	E0	1125I/750P INPUT BLUE OFFSET ADJUSTMENT	NOT USED
	RGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	GGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	BGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	ROCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED
	GOCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED
	BOCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)

PC AD ADJUSTMENT

8	AUTO GAIN-OFFSET2	OFF	AD9883 GAIN AND OFFSET AUTO ADJUSTMENT OFF/RUN	REFER TO METHOD OF ADJUSTMENT.
	PCAD R GAIN	130	PC INPUT RED GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PCAD G GAIN	130	PC INPUT GREEN GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PCAD B GAIN	130	PC INPUT BLUE GAIN ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PCAD R OFFSET	56	PC INPUT RED OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PCAD G OFFSET	56	PC INPUT GREEN OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	PCAD B OFFSET	56	PC INPUT BLUE OFFSET ADJUSTMENT	REFER TO METHOD OF ADJUSTMENT.
	RGTAR	AC	TARGET VALUE FOR PC INPUT RED GAIN ADJUSTMENT	NOT USED
	GGTAR	AC	TARGET VALUE FOR PC INPUT GREEN GAIN ADJUSTMENT	NOT USED
	BGTAR	AC	TARGET VALUE FOR PC INPUT BLUE GAIN ADJUSTMENT	NOT USED
	RGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	GGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	BGCAL	—	DISPLAY OF Y LEVEL CHROMA CALCULATED VALUE	NOT USED
	ROCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED
	GOCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED
	BOCAL	—	DISPLAY OF Y LEVEL WHITE LEVEL CALCULATED VALUE OF CLAMP AREA	NOT USED

TABLE OF CONTENTS FOR SETTINGS

9	I2C DATA	0000000000	I2C BUS CONTROL C DATA WRITE AND READ	NOT USED
	I2C DATA	WAIT	WRITE AND READ EXECUTION	NOT USED
	SOUND	—	SHIFTING TO SOUND ADJUSTMENT PAGE	SHIFTING TO SOUND ADJUSTMENT PAGE WITH ENTER KEY
	TC	—	SHIFTING TO TC ADJUSTMENT PAGE	SHIFTING TO TC ADJUSTMENT PAGE WITH ENTER KEY
	G/A	—	SHIFTING TO G/A ADJUSTMENT PAGE	SHIFTING TO G/A ADJUSTMENT PAGE WITH ENTER KEY
	TUNER	—	SHIFTING TO TUNER ADJUSTMENT PAGE	SHIFTING TO TUNER ADJUSTMENT PAGE WITH ENTER KEY
	OTHERS	—	SHIFTING TO OTHERS ADJUSTMENT PAGE	SHIFTING TO OTHERS ADJUSTMENT PAGE WITH ENTER KEY

AUDIO ADJUSTMENT PROCESS SPECIFICATIONS

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)

AUDIO ADJUSTMENT

SOUND1	VOLUME	20	USER VOLUME SETTING	NOT USED
	AVC	OFF	AVC SETTING	NOT USED
	MSP DATA	0000000000	AUDIO IC MSP DATA WRITE AND READ	NOT USED
	MSP DATA	WAIT	WRITE AND READ EXECUTION	NOT USED
	CARRIER MUTE	ON	AUDIO OUTPUT SETTING WITHOUT TV SYNCHRONIZATION	NOT USED
	IGR THR	012D	IGR THRESH LEVEL	NOT USED
	SP TEST	OFF	FOR AUDIO TEST	NOT USED

AUDIO ADJUSTMENT

SOUND2	PRESCALE SCART	27	PRESCALE SETTING (EXTERNAL INPUT)	NOT USED
	PRESCALE FM/AM-M	31	PRESCALE SETTING (TV)	NOT USED
	VOICE TEST	OFF	TREBLE EMPHASIS TEST (VOICE USED)	NOT USED
	VOICE LEVEL	6	TREBLE EMPHASIS LEVEL SETTING (VOICE USED)	NOT USED
	S. WIDE TEST	OFF	SOUND WIDE TEST (SOUND WIDE USED)	NOT USED
	S. WIDE LEVEL	3F	SOUND WIDE LEVEL SETTING (SOUND WIDE USED)	NOT USED

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)

AUDIO ADJUSTMENT

SOUND3	BASS EQ SET	0	USER AUDIO ADJUSTMENT TREBLE VALUE	NOT USED
	TREB EQ SET	0	USER AUDIO ADJUSTMENT BASS VALUE	NOT USED
	EQ LIMIT 00	0	EQUALIZER LIMIT TABLE 00: VOLUME SETTING	NOT USED
	EQ LIMIT 00	+12.0	EQUALIZER LIMIT TABLE 00: LIMIT SETTING	NOT USED
	EQ LIMIT 01	10	EQUALIZER LIMIT TABLE 01: VOLUME SETTING	NOT USED
	EQ LIMIT 01	+12.0	EQUALIZER LIMIT TABLE 01: LIMIT SETTING	NOT USED
	EQ LIMIT 02	20	EQUALIZER LIMIT TABLE 02: VOLUME SETTING	NOT USED
	EQ LIMIT 02	+12.0	EQUALIZER LIMIT TABLE 02: LIMIT SETTING	NOT USED
	EQ LIMIT 03	25	EQUALIZER LIMIT TABLE 03: VOLUME SETTING	NOT USED
	EQ LIMIT 03	+12.0	EQUALIZER LIMIT TABLE 03: LIMIT SETTING	NOT USED
	EQ LIMIT 04	30	EQUALIZER LIMIT TABLE 04: VOLUME SETTING	NOT USED
	EQ LIMIT 04	+12.0	EQUALIZER LIMIT TABLE 04: LIMIT SETTING	NOT USED
	EQ LIMIT 05	35	EQUALIZER LIMIT TABLE 05: VOLUME SETTING	NOT USED
	EQ LIMIT 05	+12.0	EQUALIZER LIMIT TABLE 05: LIMIT SETTING	NOT USED
	EQ LIMIT 06	40	EQUALIZER LIMIT TABLE 06: VOLUME SETTING	NOT USED
	EQ LIMIT 06	+12.0	EQUALIZER LIMIT TABLE 06: LIMIT SETTING	NOT USED
	EQ LIMIT 07	42	EQUALIZER LIMIT TABLE 07: VOLUME SETTING	NOT USED
	EQ LIMIT 07	+12.0	EQUALIZER LIMIT TABLE 07: LIMIT SETTING	NOT USED
	EQ LIMIT 08	44	EQUALIZER LIMIT TABLE 08: VOLUME SETTING	NOT USED
	EQ LIMIT 08	+12.0	EQUALIZER LIMIT TABLE 08: LIMIT SETTING	NOT USED
	EQ LIMIT 09	46	EQUALIZER LIMIT TABLE 09: VOLUME SETTING	NOT USED
	EQ LIMIT 09	+12.0	EQUALIZER LIMIT TABLE 09: LIMIT SETTING	NOT USED
	EQ LIMIT 10	48	EQUALIZER LIMIT TABLE 10: VOLUME SETTING	NOT USED
	EQ LIMIT 10	+12.0	EQUALIZER LIMIT TABLE 10: LIMIT SETTING	NOT USED
	EQ LIMIT 11	50	EQUALIZER LIMIT TABLE 11: VOLUME SETTING	NOT USED
	EQ LIMIT 11	+12.0	EQUALIZER LIMIT TABLE 11: LIMIT SETTING	NOT USED
	EQ LIMIT 12	52	EQUALIZER LIMIT TABLE 12: VOLUME SETTING	NOT USED
	EQ LIMIT 12	+12.0	EQUALIZER LIMIT TABLE 12: LIMIT SETTING	NOT USED
	EQ LIMIT 13	54	EQUALIZER LIMIT TABLE 13: VOLUME SETTING	NOT USED
	EQ LIMIT 13	+12.0	EQUALIZER LIMIT TABLE 13: LIMIT SETTING	NOT USED
	EQ LIMIT 14	56	EQUALIZER LIMIT TABLE 14: VOLUME SETTING	NOT USED
	EQ LIMIT 14	+12.0	EQUALIZER LIMIT TABLE 14: LIMIT SETTING	NOT USED
	EQ LIMIT 15	58	EQUALIZER LIMIT TABLE 15: VOLUME SETTING	NOT USED
	EQ LIMIT 15	+12.0	EQUALIZER LIMIT TABLE 15: LIMIT SETTING	NOT USED

AUDIO ADJUSTMENT

SOUND4	HPF VDS OFF	60	BYPASS FILTER SETTING FOR DOLBY VIRTUAL OFF	NOT USED

AUDIO ADJUSTMENT

SOUND8	BAND1 MIN	TV	-0400	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-0400	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND1 CNT	TV	+0400	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+0400	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND1 MAX	TV	+1200	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+1200	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND2 MIN	TV	-0200	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-0200	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND2 CNT	TV	+0150	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+0150	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND2 MAX	TV	+0500	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+0500	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND3 MIN	TV	-0025	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-0025	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)

AUDIO ADJUSTMENT

SOUND9	BAND4 MIN	TV	-0400	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-0400	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND4 CNT	TV	+0050	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+0050	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND4 MAX	TV	+0500	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+0500	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND5 MIN	TV	-1150	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-1150	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND5 CNT	TV	-0050	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	-0050	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED
	BAND5 MAX	TV	+1050	EQUALIZER SETTING (TV INPUT)	NOT USED
		OTHER	+1050	EQUALIZER SETTING (OTHER THAN TV INPUT)	NOT USED

TC90203 ADJUSTMENT PROCESS ITEM

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
TC1	TC DATA 000 00	—	GENERAL-PURPOSE VARIABLE ADJUSTMENT ITEM FOR TC90203 REVIEW	NOT USED
	TC TEST PATTERN	OFF	TEST PATTERN SELECT	NOT USED
TC2	OSD VS	0020	OSD VD START TIMING CORRECTION	NOT USED
	OSD HS	0030	OSD HD START TIMING CORRECTION	NOT USED
	OSD VE	0021	OSD VD END TIMING CORRECTION	NOT USED
	OSD HE	009F	OSD HD END TIMING CORRECTION	NOT USED
	XGA OSD VS	001A	OSD VD START TIMING CORRECTION FOR PC XGA	NOT USED
	XGA OSD HS	0030	OSD HD START TIMING CORRECTION FOR PC XGA	NOT USED
	XGA OSD VE	001B	OSD VD END TIMING CORRECTION FOR PC XGA	NOT USED
	XGA OSD HE	00B8	OSD HD END TIMING CORRECTION FOR PC XGA	NOT USED
	VGA OSD VS	001E	OSD VD START TIMING CORRECTION FOR PC VGA	NOT USED
	VGA OSD HS	0030	OSD HD START TIMING CORRECTION FOR PC VGA	NOT USED
	VGA OSD VE	001F	OSD VD END TIMING CORRECTION FOR PC VGA	NOT USED
	VGA OSD HE	0060	OSD HD END TIMING CORRECTION FOR PC VGA	NOT USED
TC3	N358 TV CONT	96	N358 VIDEO SETTING (TV)	NOT USED
	N358 AV CONT	96	N358 VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	N358 TV SUBCONT	+5	N358 SUB-CONTRAST SETTING (TV)	NOT USED
	N358 AV SUBCONT	+11	N358 SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	N358 TV BRIGHT	-7	N358 BRIGHTNESS SETTING (TV)	NOT USED
	N358 AV BRIGHT	-7	N358 BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	N358 TV COLOR	188	N358 COLOR STRENGTH SETTING (TV)	NOT USED
	N358 AV COLOR	174	N358 COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	N358 TV TINT	52	N358 TINT SETTING (TV)	NOT USED
	N358 AV TINT	44	N358 TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	N358 TV SHARP	45	N358 SHARPNESS SETTING (TV)	NOT USED
	N358 AV SHARP	45	N358 SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC4	N443 AV CONT	96	N443 VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	N443 AV SUBCONT	+11	N443 SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	N443 AV BRIGHT	-7	N443 BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	N443 AV COLOR	174	N443 COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	N443 AV TINT	44	N443 TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	N443 AV SHARP	45	N443 SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC5	PAL AV CONT	96	PAL VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL AV SUBCONT	+11	PAL SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL AV BRIGHT	-7	PAL BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL AV COLOR	168	PAL COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL AV TINT	44	PAL TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL AV SHARP	26	PAL SHARPNESS (COMPOSITE, S VIDEO)	NOT USED

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
TC6	SECAM AV CONT	96	SECAM VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	SECAM AV SUBCONT	+11	SECAM SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	SECAM AV BRIGHT	-7	SECAM BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	SECAM AV COLOR	168	SECAM COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	SECAM AV TINT	44	SECAM TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	SECAM AV SHARP	26	SECAM SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC7	PAL60 AV CONT	96	PAL60 VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL60 AV SUBCONT	+11	PAL60 SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL60 AV BRIGHT	-7	PAL60 BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL60 AV COLOR	168	PAL60 COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL60 AV TINT	44	PAL60 TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL60 AV SHARP	45	PAL60 SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC8	PAL-M TV CONT	96	PAL-M VIDEO SETTING (TV)	NOT USED
	PAL-M AV CONT	96	PAL-M VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-M TV SUBCONT	+5	PAL-M SUB-CONTRAST SETTING (TV)	NOT USED
	PAL-M AV SUBCONT	+11	PAL-M SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-M TV BRIGHT	-7	PAL-M BRIGHTNESS SETTING (TV)	NOT USED
	PAL-M AV BRIGHT	-7	PAL-M BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-M TV COLOR	168	PAL-M COLOR STRENGTH SETTING (TV)	NOT USED
	PAL-M AV COLOR	168	PAL-M COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-M TV TINT	44	PAL-M TINT SETTING (TV)	NOT USED
	PAL-M AV TINT	44	PAL-M TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-M TV SHARP	45	PAL-M SHARPNESS SETTING (TV)	NOT USED
	PAL-M AV SHARP	45	PAL-M SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC9	PAL-N TV CONT	96	PAL-N VIDEO SETTING (TV)	NOT USED
	PAL-N AV CONT	96	PAL-N VIDEO SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-N TV SUBCONT	+5	PAL-N SUB-CONTRAST SETTING (TV)	NOT USED
	PAL-N AV SUBCONT	+11	PAL-N SUB-CONTRAST SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-N TV BRIGHT	-7	PAL-N BRIGHTNESS SETTING (TV)	NOT USED
	PAL-N AV BRIGHT	-7	PAL-N BRIGHTNESS SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-N TV COLOR	168	PAL-N COLOR STRENGTH SETTING (TV)	NOT USED
	PAL-N AV COLOR	168	PAL-N COLOR STRENGTH SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-N TV TINT	44	PAL-N TINT SETTING (TV)	NOT USED
	PAL-N AV TINT	44	PAL-N TINT SETTING (COMPOSITE, S VIDEO)	NOT USED
	PAL-N TV SHARP	26	PAL-N SHARPNESS SETTING (TV)	NOT USED
	PAL-N AV SHARP	26	PAL-N SHARPNESS (COMPOSITE, S VIDEO)	NOT USED
TC10	525I CONT	90	525I VIDEO SETTING (COMPONENT)	NOT USED
	525I SUBCONT	+5	525I SUB-CONTRAST SETTING(COMPONENT)	NOT USED
	525I BRIGHT	-7	525I BRIGHTNESS SETTING (COMPONENT)	NOT USED
	525I COLOR	142	525I COLOR STRENGTH SETTING(COMPONENT)	NOT USED
	525I TINT	50	525I TINT SETTING (COMPONENT)	NOT USED
	525I SHARP	26	525I SHARPNESS SETTING(COMPONENT)	NOT USED
	525P CONT	92	525P VIDEO SETTING(COMPONENT)	NOT USED
	525P SUBCONT	+5	525P SUB-CONTRAST SETTING(COMPONENT)	NOT USED
	525P BRIGHT	-7	525P BRIGHTNESS SETTING(COMPONENT)	NOT USED
	525P COLOR	142	525P COLOR STRENGTH SETTING(COMPONENT)	NOT USED
	525P TINT	50	525P TINT SETTING(COMPONENT)	NOT USED
	525P SHARP	26	525P SHARPNESS(COMPONENT)	NOT USED
TC11	625I CONT	90	625I VIDEO SETTING (COMPONENT)	NOT USED
	625I SUBCONT	+5	625I SUB-CONTRAST SETTING (COMPONENT)	NOT USED
	625I BRIGHT	-7	625I BRIGHTNESS SETTING (COMPONENT)	NOT USED
	625I COLOR	142	625I COLOR STRENGTH SETTING (COMPONENT)	NOT USED
	625I TINT	50	625I TINT SETTING (COMPONENT)	NOT USED
	625I SHARP	26	625I SHARPNESS SETTING (COMPONENT)	NOT USED
	625P CONT	92	625P VIDEO SETTING (COMPONENT)	NOT USED
	625P SUBCONT	+5	625P SUB-CONTRAST SETTING (COMPONENT)	NOT USED
	625P BRIGHT	-7	625P BRIGHTNESS SETTING (COMPONENT)	NOT USED
	625P COLOR	142	625P COLOR STRENGTH SETTING (COMPONENT)	NOT USED
	625P TINT	50	625P TINT SETTING (COMPONENT)	NOT USED
	625P SHARP	26	625P SHARPNESS (COMPONENT)	NOT USED

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
TC12	1125I CONT	96	1125I VIDEO SETTING (COMPONENT)	NOT USED
	1125I SUBCONT	+6	1125I SUB-CONTRAST SETTING (COMPONENT)	NOT USED
	1125I BRIGHT	-7	1125I BRIGHTNESS SETTING (COMPONENT)	NOT USED
	1125I COLOR	142	1125I COLOR STRENGTH SETTING (COMPONENT)	NOT USED
	1125I TINT	50	1125I TINT SETTING (COMPONENT)	NOT USED
	1125I SHARP	16	1125I SHARPNESS SETTING (COMPONENT)	NOT USED
	750P CONT	96	750P VIDEO SETTING (COMPONENT)	NOT USED
	750P SUBCONT	+6	750P SUB-CONTRAST SETTING (COMPONENT)	NOT USED
	750P BRIGHT	-7	750P BRIGHTNESS SETTING (COMPONENT)	NOT USED
	750P COLOR	142	750P COLOR STRENGTH SETTING (COMPONENT)	NOT USED
	750P TINT	50	750P TINT SETTING (COMPONENT)	NOT USED
	750P SHARP	16	750P SHARPNESS (COMPONENT)	NOT USED

G/A ADJUSTMENT PROCESS ITEM

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
LIQUID CRYSTAL COMMON SETTING				
G/A 1	G/A TEST PATTERN	OFF	GRAY SCALE TEST PATTERN DISPLAY	REFER TO TEST PATTERN OF ADJUSTMENT PROCESS MODE.
	G/A DATA 00	—	GENERAL-PURPOSE VARIABLE ADJUSTMENT ITEM FOR GA REVIEW	NOT USED
QS DRIVING TEMPERATURE THRESHOLD SETTING				
G/A 2	QS TABLE TEST	OFF	FOR QS TEST	NOT USED
	TABLE SELECT	6	SELECTION TABLE SETTING FOR QS TEST	NOT USED
	MCU PALA	2	QS TEMPERATURE TABLE AUTO SETTING	NOT USED
	TABLE0-1	-5°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 0 AND 1	NOT USED
	TABLE1-2	0°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 1 AND 2	NOT USED
	TABLE2-3	+5°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 2 AND 3	NOT USED
	TABLE3-4	+10°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 3 AND 4	NOT USED
	TABLE4-5	+15°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 4 AND 5	NOT USED
	TABLE5-6	+20°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 5 AND 6	NOT USED
	TABLE6-7	+25°C	TEMPERATURE THRESHOLD SETTING BETWEEN QS SELECTION TABLES 6 AND 7	NOT USED
	READ TEMP	—	DISPLAYING THE TEMPERATURE SENSOR READING	NOT USED

ADJUSTMENT PROCESS TUNER ITEM DEFAULT TABLE

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)
BASIC SETTING				
TUNER1	AFT UP	1.80	AFT VOLTAGE REFERENCE VALUE (ALL BANDS)	NOT USED
	AFT DOWN	1.20	AFT VOLTAGE REFERENCE VALUE (ALL BANDS)	NOT USED
	LSYNC	1000	SYNC DETERMINATION THRESHOLD (TV)	NOT USED
	HSYNC	1048	SYNC DETERMINATION THRESHOLD (TV)	NOT USED
	AVSYNC	5000	SYNC DETERMINATION THRESHOLD (EXTERNAL INPUT)	NOT USED
TUNER2	AIR SERCH	1.600	LAST SYNC DETERMINATION FREQUENCY FOR AIR CH SEARCH	NOT USED
	EDS TEST	10	TIME (SECOND) FOR DETERMINATION OF ABSENCE OF EDS TIME DATA	NOT USED
	AFT FARTIME	50	CHANNEL PRESET TIME ADJUSTMENT 1	NOT USED
	AFT NEARTIME	30	CHANNEL PRESET TIME ADJUSTMENT 2	NOT USED
	AFT NEARMTIME	10	CHANNEL PRESET TIME ADJUSTMENT 3	NOT USED
	AFT 1STEPTIME	10	CHANNEL PRESET TIME ADJUSTMENT 4	NOT USED
	AFT CSYNCTIME	50	CHANNEL PRESET TIME ADJUSTMENT 5	NOT USED

ADJUSTMENT PROCESS OTHERS ITEM DEFAULT TABLE

Page No.	Item	Initial Value	Function	Response precautions on servicing (Do not change other items than designated.)

TADJUSTMENT PROCESS OTHERS ITEM DEFAULT TABLE

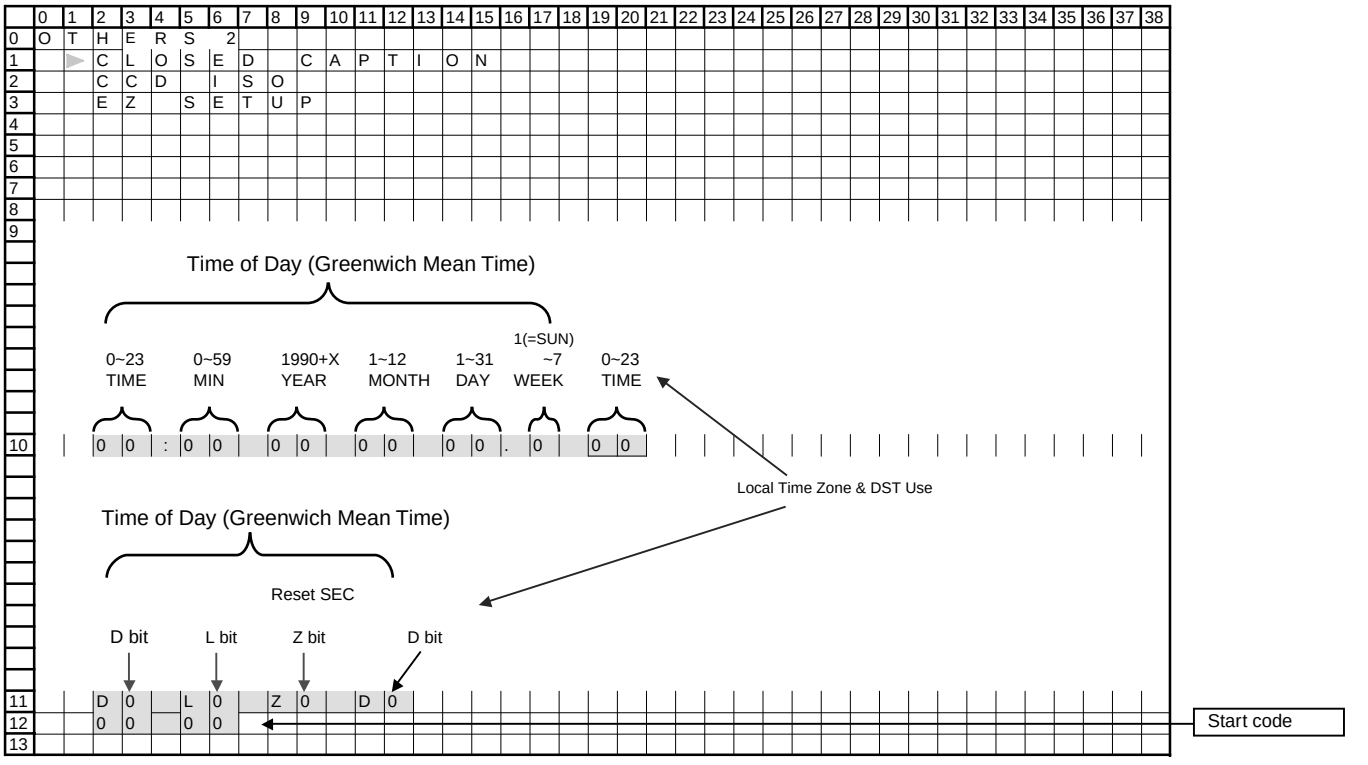
OTHERS1	DAC DATA	—	GENERAL-PURPOSE VARIABLE ADJUSTMENT ITEM FOR DAC REVIEW	NOT USED
	L ERROR WAIT	15s	LAMP ERROR DETECTION WAIT TIME	NOT USED
	L ERROR H TIME	1.0s	LAMP ERROR DETECTION TIME	NOT USED
	AV AUTO GAIN	OFF	AUTO GAIN SETTING FOR TV	NOT USED
	TV OSD	0	DISPLAY POSITION SETTING FOR OTHER THAN CARD	NOT USED
	NTSC PWM FREQ	0293	LIGHT CONTROL FREQUENCY SETTING	NOT USED
	NTSC PWM DUTY	0	LIGHT CONTROL DUTY SETTING	NOT USED
	PAL PWM FREQ	0258	LIGHT CONTROL FREQUENCY SETTING (50Hz)	NOT USED
	PAL PWM DUTY	0	LIGHT CONTROL DUTY SETTING (50Hz)	NOT USED
	OPC THRESHOLD	24	INPUT LEVEL THRESHOLD FOR SHIFTING FROM BRIGHTNESS SENSOR STOP MODE TO OPERATION MODE	NOT USED
	HOTEL POWERFIX	OFF	SETTING FOR HOTEL MODE POWER SUPPLY ON FIXED	NOT USED
	COMP SYSTEM	AUTO	COMPONENT SIGNAL SELECTION IN ADJUSTMENT PROCESS	NOT USED

REMOCON CODE SHOULD BE DISPLAYED AT THE BOTTOM.

OTHERS2	CLOSED CAPTION	15	CLOSED CAPTION THRESHLEVEL	NOT USED
	CCD ISO	16	CLOSED CAPTION PHASE SETTING	NOT USED
	EZ SETUP	ON	PRESENCE OR ABSENCE OF DISPLAY OF EZ SET UP	NOT USED

EDS DATA SHOULD DISPLAYED AT THE BOTTOM

Adjustment process auto clock display



* In the adjustment process, the local time can be freely obtained. Each time the local time is known, the colors of the following items change accordingly.
(1) Time of Day (Greenwich Mean Time)
(2) Local Time Zone & DST Use
(3) Start code

Test pattern in the adjustment process mode

IC1201 (LCD controller) test pattern

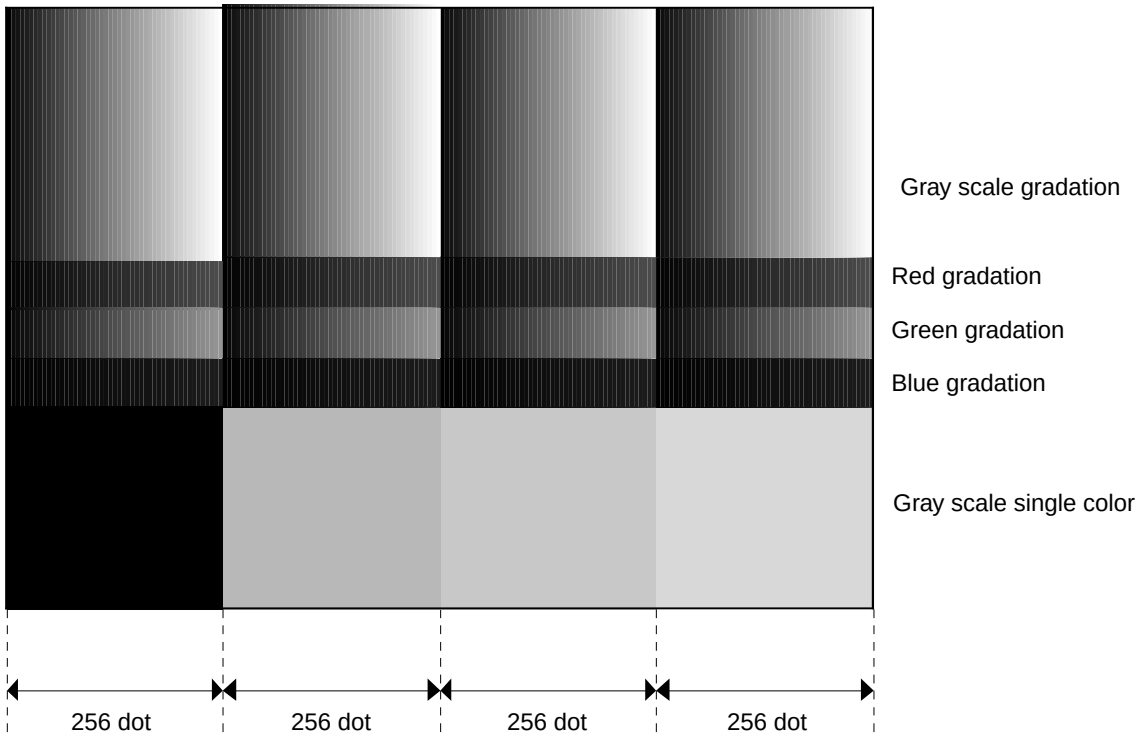
1) Getting the test pattern displayed

Call the adjustment process mode, select "G/A" on page 4, and press the ENTER button. Next select "G/A TEST PATTERN" in line 1 on page 1. (The "G/A TEST PATTERN" turns yellow.) Now use the cursor RIGHT/LEFT keys to get the test pattern displayed.

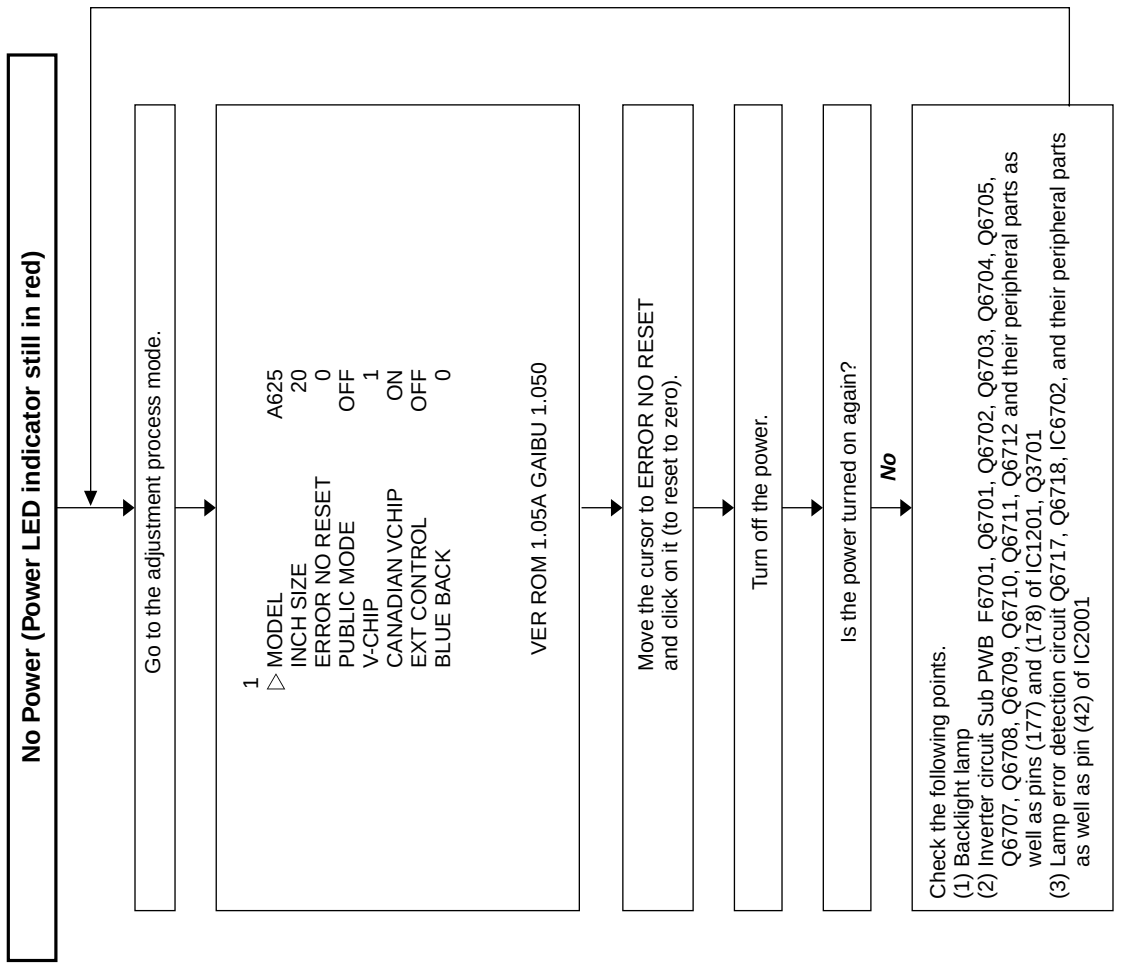
To turn off the test pattern, use the cursor RIGHT/LEFT keys again. If the cursor UP/DOWN keys are wrongly pressed and the cursor RIGHT/LEFT keys become ineffective, just turn OFF the power.

2) Test pattern displayed

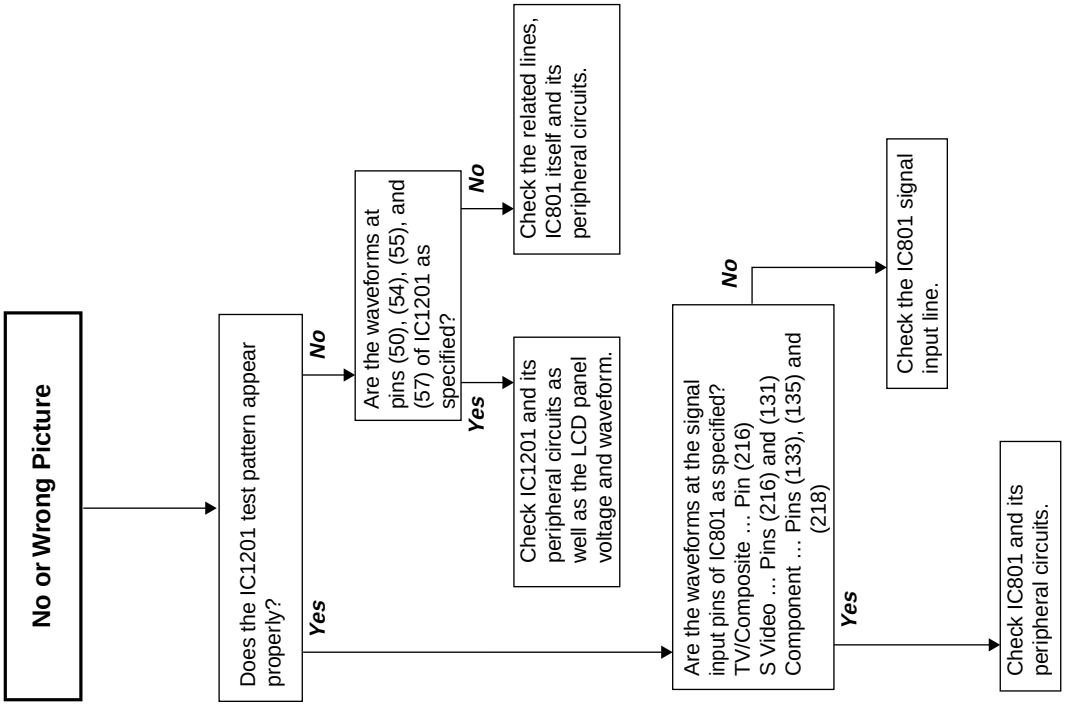
The following test pattern appears onscreen.



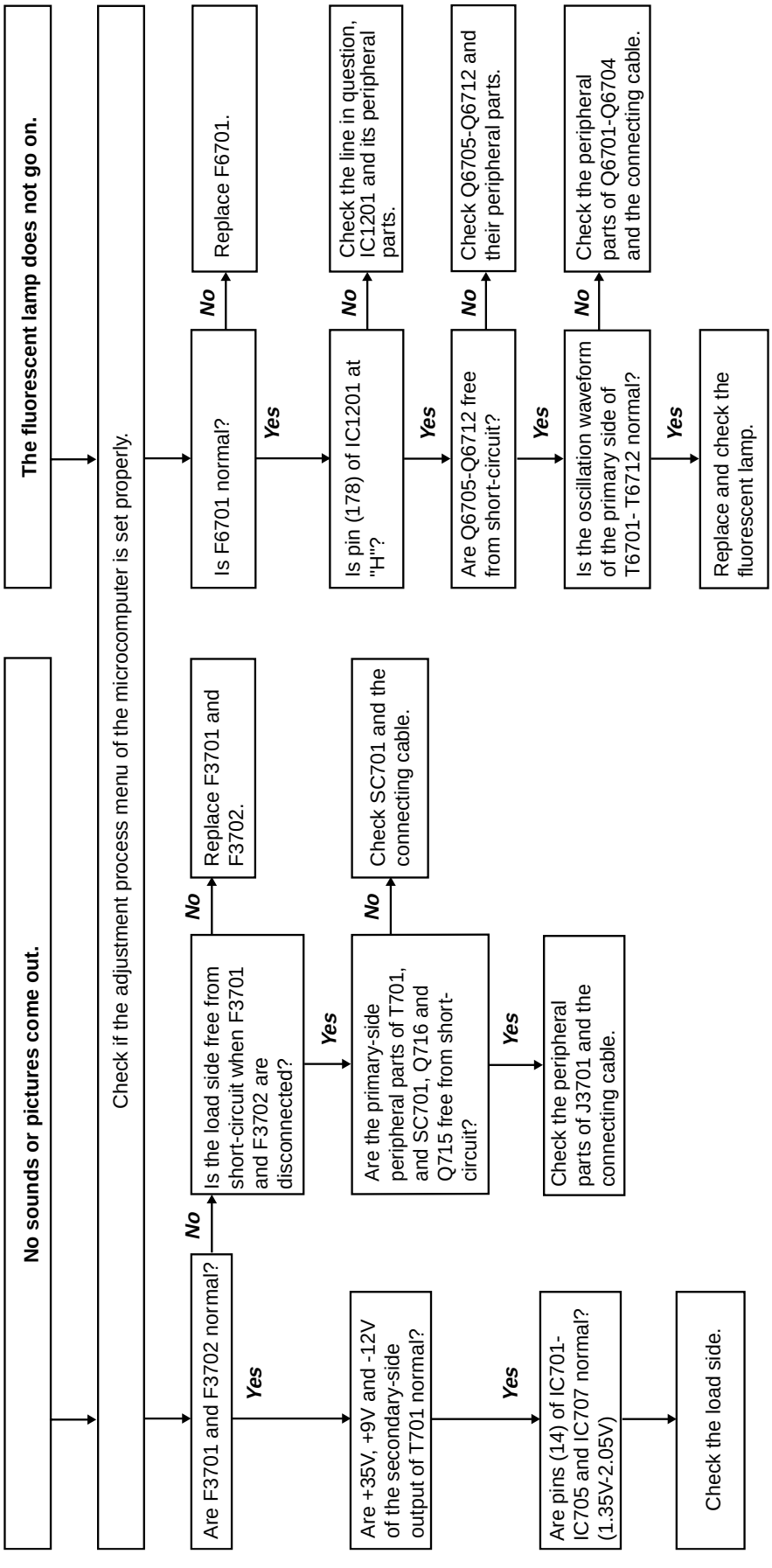
TROUBLE SHOOTING TABLE



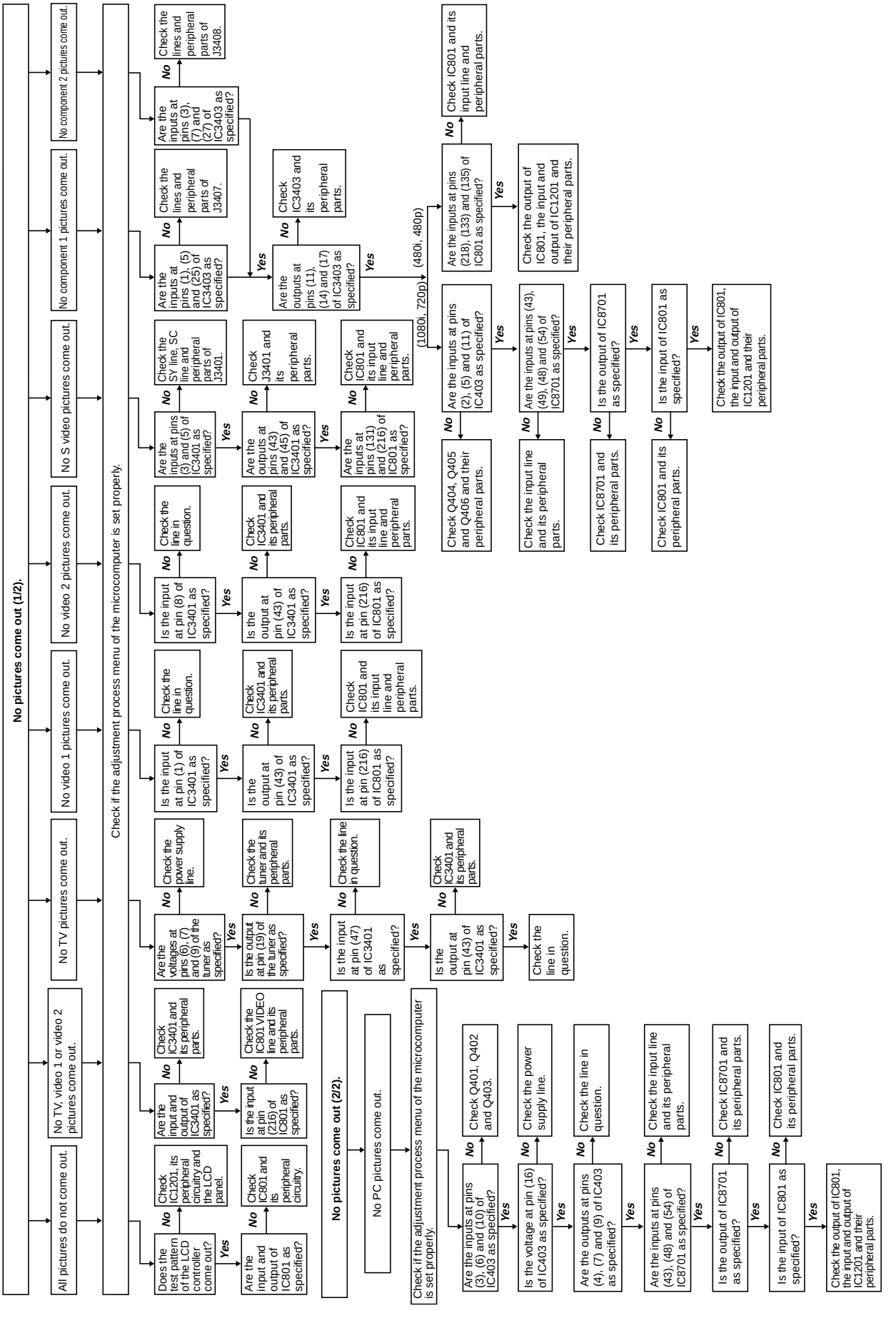
Note:
This model is equipped with the lamp error detection function that detects the current flowing into the fluorescent lamp and protects the backlight lamp drive circuit.
If a lamp error is detected, the microprocessor interrupts the unit and the ERROR NO RESET setting will go up.
When the ERROR NO 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.



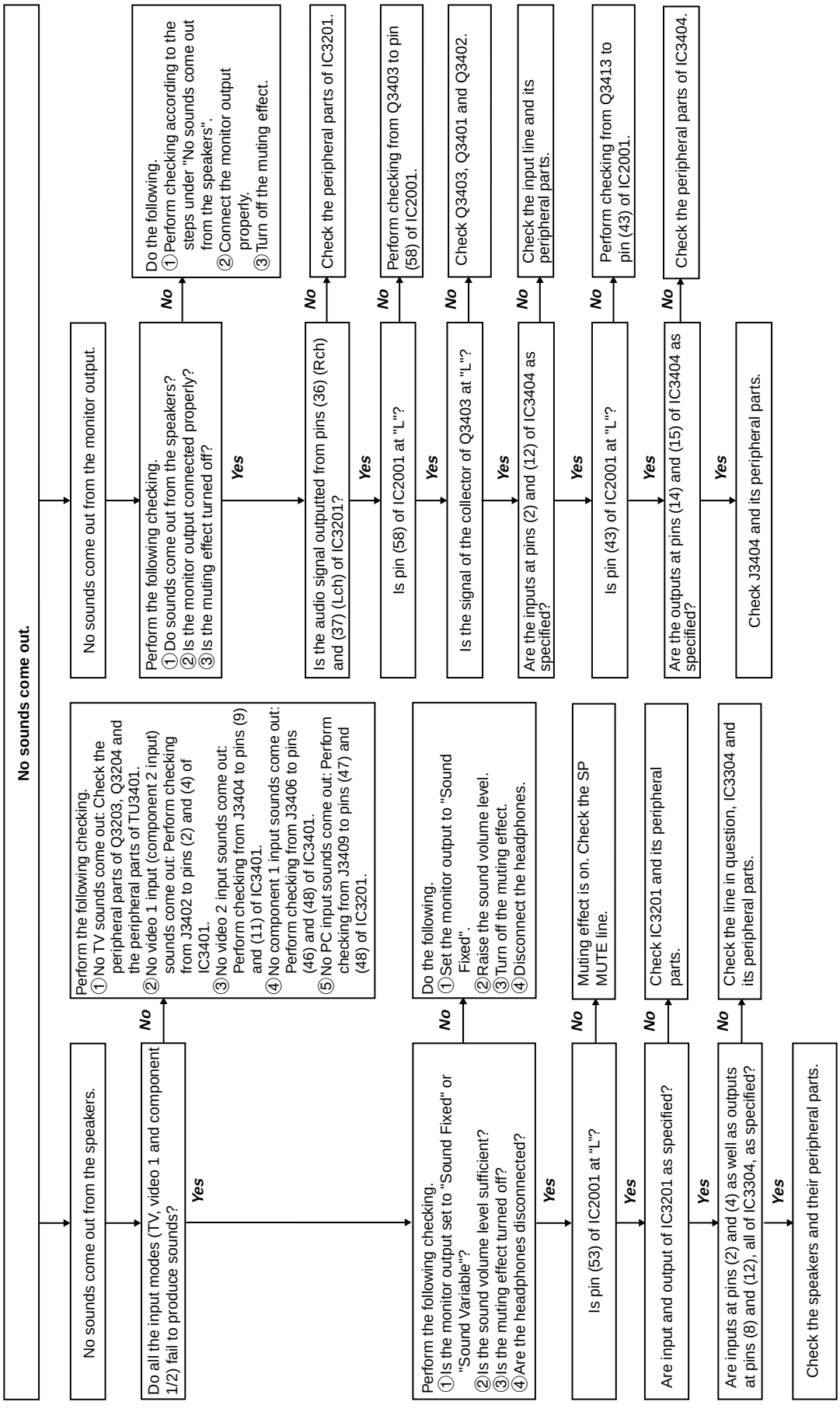
TROUBLE SHOOTING TABLE (Continued)



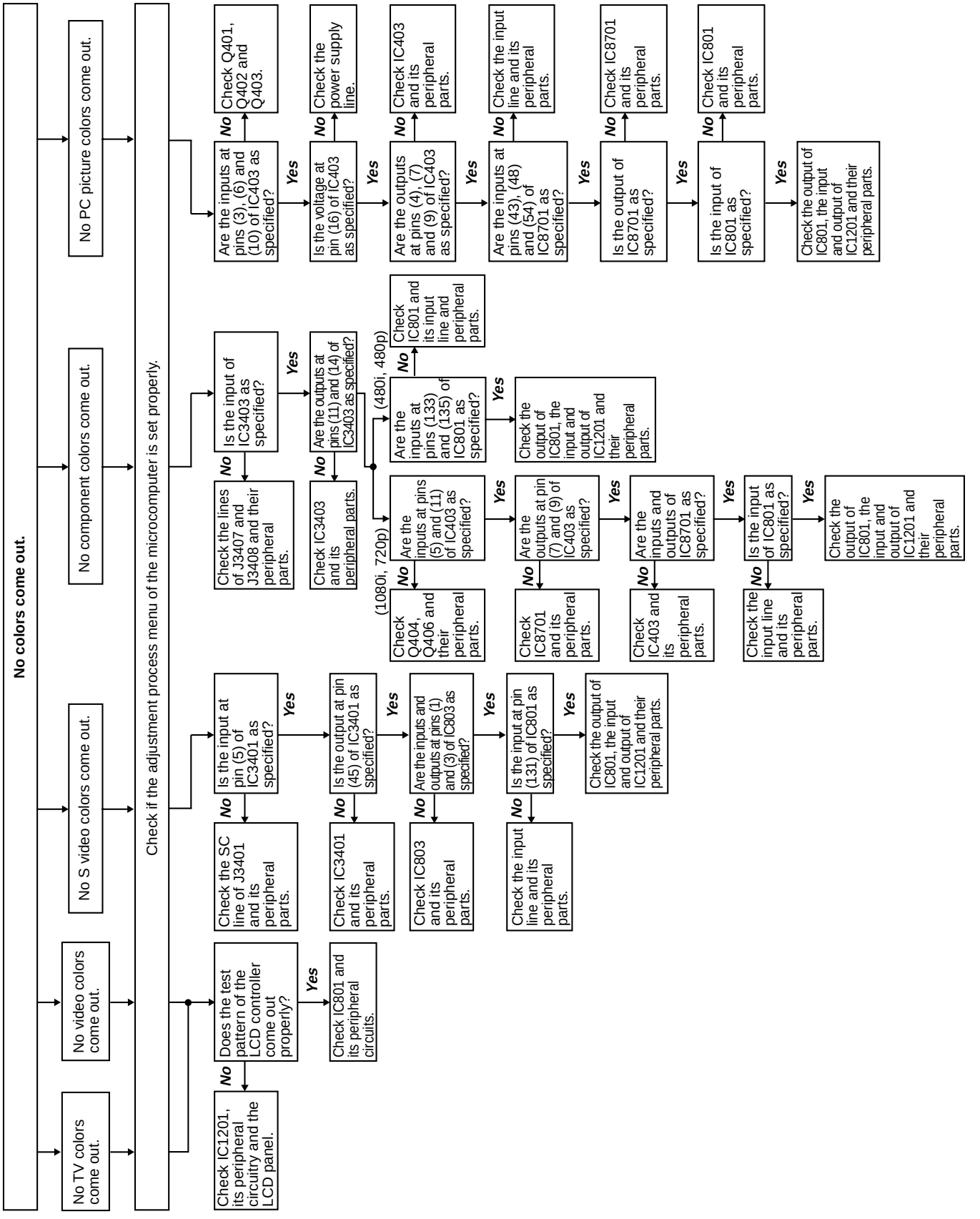
TROUBLE SHOOTING TABLE (Continued)



TROUBLE SHOOTING TABLE (Continued)

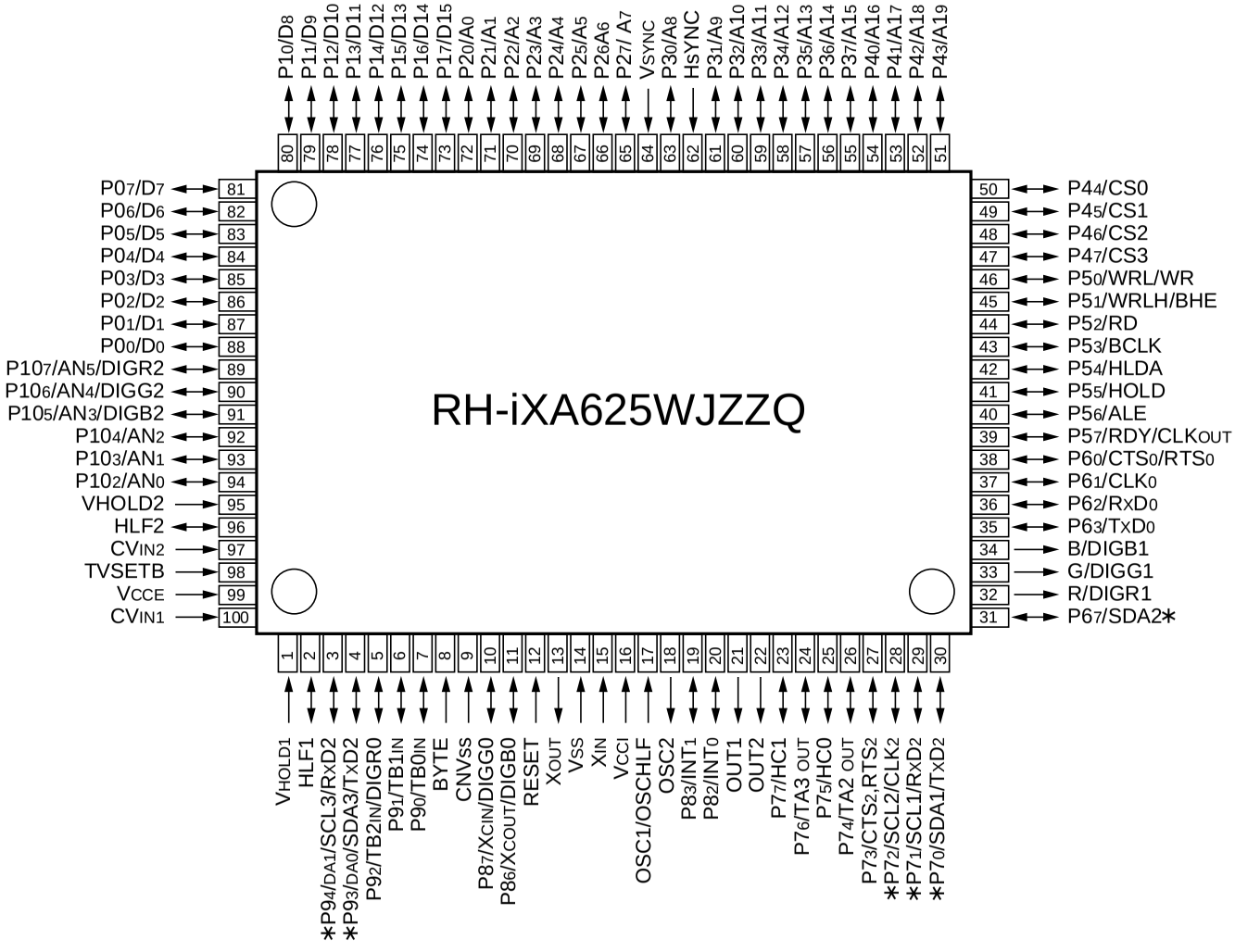


TROUBLE SHOOTING TABLE (Continued)



MAJOR IC INFORMATIONS

1. IC2001 (RH-iXA625WJZZQ)
   1-1.Pin Assignment



(TOP VIEW)

∗:VCCE

1-2. Description of Pins of IC2001 (RH-iXA625WJZZQ)

Pin No.	Pin Name	I/O	Pin Name	Function
1	VHOL1	I	Vhold	FOR CLOSED CAPTION
2	HLF1	I/O	HLF	FOR CLOSED CAPTION
3	P94/DA1/SCL3/RXD2	O	SUBDin2	N.C
4	P93/DA0/SDA3/TXD2	O	SUBDout2	N.C
5	P92/TB2IN/DIGR0	I	CSYNC2	FOR JUDGEMENT OF PC FREQUENCY
6	P91/TB1IN	I	CSYNC	COMPOSITE SYNCHRONIZING SIGNAL
7	P90/TB0IN	I	IREM1	REMOTE CONTROL
8	BYTE	I	BYTE	GND
9	CNVSS	I	CNVss	GND
10	P87/XCIN/DIGG0	I	Xcin	32kHz OSCILLATION INPUT
11	P86/XCOUTDIGB0	O	Xout	32kHz OSCILLATION OUTPUT
12	RESET	I	RESET	L: MICROPROCESSOR RESET
13	XOUT	O	Xcout	MICROPROCESSOR SECTION OSCILLATOR CONNECTION
14	VSS	I	Vss	GND
15	XIN	I	Xin	MICROPROCESSOR SECTION OSCILLATOR CONNECTION
16	VCCI	I	VccI	POWER SUPPLY (3.3V)
17	OSC1/OSCHLF	I	OSCin	CLOCK INPUT FOR OSD
18	OSC2	O	OSCout	N.C
19	P83/INT1	I	PSWin	MAIN POWER SUPPLY MONITORING
20	P82/INT0	I	MONITOR	TC90203 INTERRUPT PIN INPUT
21	OUT1	O	BLK	OSD BLANKING OUTPUT
22	OUT2	O	OSD_I	EMPHASIZED SIGNAL OUTPUT OF OSD
23	P77/HC1	O	DACICS	GRAY SCALE CONTROL IC CHIP SELECT
24	P76/TA3OUT	O		N.C
25	P75/HC0	I	PCHC	PC HORIZONTAL SYNCHRONIZING SIGNAL INPUT COUNT
26	P74/TA2OUT	O	D_L3	N.C
27	P73/CTS2.RTS2	I	INCH2	INCH DISCRIMINATION PORT 2 (“H”: 13 INCH)
28	P72/SCL2/CLK2	I/O	SCL2	SERIAL CLOCK LINE 2 FOR I^2C BUS 2 SYSTEM (EEPROM, AV, SW, BS TUNER)
29	P71/SCL1/RXD2	I/O	SCL1	SERIAL CLOCK LINE 1 FOR I^2C BUS 2 SYSTEM (OTHERS)
30	P70/SDA1/SXD2	I/O	SCA1	SERIAL DATA LINE 1 FOR I^2C BUS 2 SYSTEM
31	P67/SDA2	I/O	SCA2	SERIAL DATA LINE 2 FOR I^2C BUS 2 SYSTEM
32	R/DIGR1	O	OSD_R	R SIGNAL OUTPUT OF OSD
33	G/DIGR1	O	OSD_G	G SIGNAL OUTPUT OF OSD
34	B/DIGR1	O	OSD_B	B SIGNAL OUTPUT OF OSD
35	P63/TXD0	O	SUBDout	N.C
36	P62/RXD0	I	SUBDin	N.C
37	P61/CLK0	I	SCLK	N.C
38	P60/CTS0/RTS0	O	BUSY	N.C
39	P57/RDY/CLKOUT	O	MAIN SW	LED SECTION POWER SUPPLY CONTROL
40	P56/ALE	O	MON SW	N.C
41	P55/HOLD	I	POWin(EPM)	DC/DC STARTUP DETECTION
42	P54/HLDA	I	L_ERR	FLUORESCENT LAMP ERROR DETECTION
43	P53/BCLK	O	S IN/OUT	AUDIO I/O SWITCHING
44	P52/RD	O	JUST CLOCK	N.C
45	P51/WRH/BHE	O	TIMER(RLED)	ON-TIMER LED CONTROL (USED FOR POWER SUPPLY RLED CONTROL ABROAD)
46	P50/WRL/WR	I	MRDY(CE)	I^2C BUS OPEN CONNECTION SWITCHING DETECTION
47	P47/CS3	O	LEDPOW(GLED)	POWER SUPPLY LED CONTROL (ALSO USED FOR SUB- POWER SUPPLY CONTROL IN JAPAN) (USED FOR POWER SUPPLY GLED CONTROL ABROAD)
48	P46/CS2	O	PC/COMP	SWITCHING BETWEEN PC AND COMPONENT
49	P45/CS1	O	PXOE	N.C
50	P44/CS0	O	VSHOUT	PANEL GATE DRIVER VOLTAGE CONTROL

Pin No.	Pin Name	I/O	Pin Name	Function
51	P43/A19	O	P_MUTE	RESET FOR LIQUID CRYSTAL CONTROLLER (20 INCH ONLY)
52	P42/A18	O	HPMUTE	HEADPHONE MUTE
53	P41/A17	O	SP MUTE1	MAIN SPEAKER MUTE
54	P40/A16	O		N.C
55	P37/A15	I	HP DET	HEADPHONE DETECTION
56	P36/A14	O	SSTBY	AMP POWER SUPPLY CONTROL (MODEL WITHOUT 1 BIT)
57	P35/A13	I	VSH IN	PANEL GATE DRIVER VOLTAGE CHECK
58	P34/A12	O	LMUTE	LINEOUT AUDIO MUTE
59	P33/A11	O	V IN/OUT	VIDEO I/O SWITCHING
60	P32/A10	O	SRESET	AUDIO-RELATED IC RESET OUTPUT
61	P31/A9	O	BS_POW	N.C
62	HSYNC	I	HSYNC	HORIZONTAL SYNCHRONIZING SIGNAL FOR OSD
63	P30/A8	O	LCDPOW_EN	LCD POWER SIGNAL CONTROL
64	VSYNC	I	VSYNC	VERTICAL SYNCHRONIZING SIGNAL FOR OSD
65	P27/A7	O	PROMRESET	RESET FOR FPGA DOWNLOAD (20 INCH ONLY)
66	P26/A6	O	UP0	N.C
67	P25/A5	O	EXT	N.C
68	P24/A4	O	I^2/UA	N.C
69	P23/A3	O	OPCLED	LED FOR OPC
70	P22/A2	O	INV_POW	SEPARATELY-EXCITED INVERTER POWER SUPPLY CONTROL (20 INCH ONLY)
71	P21/A1	O	VGH	PANEL POWER SUPPLY CONTROL
72	P20/A0	O	POWout	DC/DC CONTROL OUTPUT
73	P17/D15	I	ADPPOW	ADAPTER ON/OFF INPUT
74	P01/D1	O	DACOUTCON	GRAY SCALE CONTROL IC FOR OUTPUT CONTROL (13 AND 15 INCH ONLY)
75	P15/D13	O	MP_RCS	TEMPERATURE SENSOR CHIP SELECT
76	P14/D12	I	MP_RDA	TEMPERATURE SENSOR DATA INPUT
77	P13/D11	O	MP_CS	CHIP SELECT FOR QS-READY CONTROLLER
78	P12/D10	O	MP_DA	QS-READY CONTROLLER OR GRAY SCALE CONTROL IC DATA OUTPUT
79	P11/D9	O	MP_CLK	QS-READY CONTROLLER, TEMPERATURE SENSOR OR GRAY SCALE CONTROL IC CLOCK OUTPUT
80	P10/D8	O	DDC_RESET	VIDEO-RELATED IC RESET OUTPUT
81	P07/D7	I	KEY4	KEY INPUT 4
82	P06/D6	I	KEY5	KEY INPUT 5
83	P05/D5	O	VLS	PANEL & GRAY SCALE IC POWER SUPPLY CONTROL (20 INCH ONLY)
84	P04/D4	O	BSERR	N.C
85	P03/D3	O	GRRESET	N.C
86	P02/D2	O	1BIT_PROTECT	N.C
87	P01/D1	I	CON_CE	FPGA DOWNLOAD COMPLETION DETECTION (20 INCH ONLY)
88	P00/D0	I	INCH	INCH DISCRIMINATION PORT (“H”: 20-INCH XGA MODEL)
89	P107/AN5/DIGR2	I	AFT	AFT VOLTAGE INPUT
90	P106/AN4/DIGG2	I	AGC	AGC INPUT VOLTAGE
91	P105/AN3/DIGB2	I	KEY1	KEY INPUT 1
92	P104/AN2	I	KEY2	KEY INPUT 2
93	P103/AN1	O	C/N	N.C
94	P102/AN0	I	OPC_IN	OPC SENSOR LEVEL INPUT
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	TEST INPUT PIN (L-FIXED)
99	VCCE	I	VccE	POWER SUPPLY (5V)
100	CVIN1	I	CVin1	FOR CLOSED CAPTION

2. IC801(VHiTC90203X-1Q)

2-1. Pin Configuration

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC	AD	AE	AF
27																										
26	GND VSS12	GND VSS12				281 DRAM2				254 LCD_CLK_OUT	244 BLUE2[0]	241 BLUE2[3]	234 GREEN2[0]	GND VSS12	231 GREEN2[2]	225 GREEN2[7]	217 RED2[3]	212 RED2[7]	204 BLUE1[4]		192 GREEN1[3]	188 GREEN1[6]		182 RED1[0]	GND VSS12	GND VSS12
25	GND VSS12	GND VSS12					278 DRAM2GND6	271 RESET	264 LCD_VD	258 LCD_NCLK_OUT	249 BLUE2[1]	242 BLUE2[4]	235 GREEN2[1]	GND VSS12	231 GREEN2[3]	220 RED2[0]	214 RED2[4]	207 BLUE1[1]	200 BLUE1[5]	198 BLUE1[7]		187 GREEN1[7]		180 RED1[1]	GND VSS12	GND VSS12
24			GND VSS12				280 DRAM21VDD1	277 GND2	266 SCL	262 DRAM21VDD5	250 BLUE2[2]	243 BLUE2[5]	239 DRAM21VDD3	GND VSS12	229 GREEN2[4]	219 RED2[1]	213 RED2[5]	205 BLUE1[2]	199 BLUE1[6]	193 GREEN1[1]	190 GREEN1[4]		186 BUSSEL	GND VSS12	179 RED1[3]	176 RED1[2]
23				GND VSS12			282 DRAM22VDD1	279 DRAM21VDD2	267 SDA	263 LCD_HDD	261 RAM2GND1	247 BLUE2[6]	240 DRAM2GND3	GND VSS12	226 GREEN2[5]	218 RED2[2]	211 RED2[6]	201 BLUE1[3]	194 GREEN1[0]	191 GREEN1[2]	189 GREEN1[5]		GND VSS12	181 RED1[6]	178 RED1[5]	175 RED1[4]
22			285 TSTD_IN[14]	286 TSTD_IN[15]	GND VSS12	GND VSS12	PWR1 VDDC		PWR2 VDDS	265 ENAB	PWR1 VDDC	248 BLUE2[7]	GND VSS12	GND VSS12	224 GREEN2[6]	PWR1 VDDC	206 BLUE1[0]	PWR2 VDDS		PWR1 VDDC	GND VSS12	GND VSS12		177 RED1[7]	172 OSD_N_K	170 CLOSD_CLK
21	290 TSTD_IN[10]	289 TSTD_IN[11]	287 TSTD_IN[12]	288 TSTD_IN[13]	GND VSS12																	GND VSS12	174 SMODE		168 OSDA_D4A_IN	166 OSDBA_D3A_IN
20	297 TSTD_IN[6]	296 TSTD_IN[7]	292 TSTD_IN[8]	291 TSTD_IN[9]	PWR1 VDDC																	PWR1 VDDC		167 OSDGA_D2A_IN	165 OSDRA_D1A_IN	159 OSDYSA_IN20
19	302 TSTD_IN[1]	301 TSTD_IN[2]	300 TSTD_IN[3]	298 TSTD_IN[4]	299 TSTD_IN[5]																	154 OSD_VD_OUT		161 OSD_HD_OUT	160 OSDB_D4B_IN	157 OSDBB_D3B_IN
18	308 TSTMODE[2]	307 TSTMODE[1]	306 TSTMODE[0]	303 TSTD_IN[0]	PWR2 VDDS																	PWR2 VDDS		158 OSDGB_D2B_IN	156 OSDRB_D1B_IN	155 OSDYSB_IN
17	313 TSTOE_IN	312 TST_HD_IN	311 TST_VD_IN	310 TSTMODE[4]	309 TSTMODE[3]																	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12
16	320 ST2_IN[2]	315 TTSTCK108	319 TST2_IN[1]	318 TST2_IN[0]	PWR1 VDDC						GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						146 PLL2AVDD			147 FIL2	148 PLL2AVSS
15	326 MBIST	324 TSTCKDSP	322 TST2_IN[4]	321 TST2_IN[3]							GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						143 DA_DVSS2	142 DA_DVDD2	141 DAVREF2	140 DABIAS22	139 DABIAS21
14	330 TMS	329 TCK	327 TMODE	328 MONITOR	GND VSS12						GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						136 DAVDD2	137 DAOUT2	133 C3VREFB		138 DAGND2
13	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						131 C3AD_VDD	132 REDIN		130 CRIN	129 C3AD_VSS13
12	331 TDI	332 TDO	336 DRAM2GND4	338 DIG_FELD_OUT	339 DIG_VD_OUT						GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						127 C3_BIASAD		128 C3VREFT12		
11	333 TRST	337 DRAM21VDD4	342 DIG_CLK_OUT	346 DIG_OUT[7]	PWR1 VDDC						GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12	GND VSS12						124 C2AD_VDD	125 BLUEIN	126 C2VREFB	123 CBIN	
10	340 DIG_HD_OUT	345 DIG_OUT[3]	348 DIG_OUT[4]	351 DIG_OUT[5]	352 DIG_OUT[6]																	120 C2_BIASAD		121 C2VREFT		122 C2AD_VSS
9	347 DIG_OUT[1]	349 DIG_OUT[2]	356 DIG_Y_IN[6]	358 DIG_Y_IN[7]	PWR2 VDDS																	117 CAD_VDD	118 GREENIN	119 CVREFB	116 CIN	115 CAD_VSS
8	350 DIG_OUT[0]	357 DIG_Y_IN[3]	359 DIG_Y_IN[4]	361 DIG_Y_IN[5]	367 DIG_C_IN[7]																	113 C_BIASAD		114 CVREFT		
7		360 DIG_Y_IN[1]	362 DIG_Y_IN[2]	368 DIG_C_IN[6]	PWR1 VDDC																	109 YVREFM		108 CVBS2IN7		110 YVREFB
6		363 DIG_Y_IN[0]	369 DIG_C_IN[4]	371 DIG_C_IN[5]	GND VSS12																	107 YAD_VDD				105 YAD_VSS
5	373 DIG_C_IN[1]	372 DIG_C_IN[2]	370 DIG_C_IN[3]		GND VSS12	GND VSS12	PWR1 VDDC	10 PCH_IN	PWR2 VDDC		PWR1 VSS12		GND VSS12	GND VSS12	66 PCB_IN[6]	PWR1 VDDC	74 I_IN	PWR2 VDDS	GND VSS12	79 VBIREAD	GND YVSS12	90 PLL1AVDD		106 CVBS1IN		104 YVREFT
4	374 DIG_C_IN[0]			GND VSS12	1 DRAM12VDD1	3 DRAM11VDD1	11 CSYNC_IN		12 PCV_IN	24 PCR_IN[4]	37 PCR_IN[1]	42 PCR_IN[0]	51 PCG_IN[1]	GND VSS12	65 PCB_IN[7]	70 PCB_IN[3]			GND VSS12	80 YCLAMP1					101 DA_DVSS1	103 Y_BIASAD
3			GND VSS12	2 DRAM1GND3	4 DRAM1GND1	13 SYNC_OUT	17 DIG_HD_IN	19 DRAM11VDD2		38 PCR_IN[5]	45 PCR_IN[2]		55 PCG_IN[2]	GND VSS12		68 PCB_IN[4]	73 PCB_IN[0]		GND VSS12	81 YCLAMP2					100 DAVREF1	99 DABIAS11
2	GND VSS12	GND VSS12			16 DIG_FELD_IN	18 DIG_VD_IN	20 DRAM1GND2	22 DIG_CLK_IN	34 DTMB	41 PCR_IN[6]	46 PCR_IN[3]	50 PCG_IN[5]	56 PCG_IN[3]	GND VSS12	60 PCG_IN[0]	67 PCB_IN[5]	72 PCB_IN[1]	75 YS_IN	GND VSS12	84 XO_VDD			91 CKIN1	95 DA_DVDD1	97 DA OUT	98 1DA GND1
1	GND VSS12	GND VSS12						30 DTCLK		27 PCR_IN[7]	49 PCG_IN[7]	54 PCG_IN[6]	59 PCG_IN[4]	GND VSS12	62 PCCK_INP		71 CB_IN[2]		GND VSS12	85 XO_V_IN	86 XO_V_OUT	87 XO_VSS	92 FIL1	93 PLL1AVSS	96 DA VDD	
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	T	U	V	W	Y	AA	AB	AC	AD	AE	AF

(TOP VIEW)

2-2. Description Of Pins

A1	VSS12
A2	VSS12
A3	NC_A3
A4	DIG_C_IN[0]
A5	DIG_C_IN[1]
A6	NC_A6
A7	NC_A7
A8	DIG_OUT[0]
A9	DIG_OUT[1]
A10	DIG_HD_OUT
A11	TRST
A12	TDI
A13	VSS12
A14	TMS
A15	MBIST
A16	TST2_IN[2]
A17	TSTOE_IN
A18	TSTMODE[2]
A19	TSTD_IN[1]
A20	TSTD_IN[6]
A21	TSTD_IN[10]
A22	NC_A22
A23	NC_A23
A24	NC_A24
A25	VSS12
A26	VSS12
B1	VSS12
B2	VSS12
B3	NC_B3
B4	NC_B4
B5	DIG_C_IN[2]
B6	DIG_Y_IN[0]
B7	DIG_Y_IN[1]
B8	DIG_Y_IN[3]
B9	DIG_OUT[2]
B10	DIG_OUT[3]
B11	DRAM21VDD4
B12	TDO
B13	VSS12
B14	TCK
B15	TSTCKDSP
B16	TSTCK108
B17	TST_HD_IN
B18	TSTMODE[1]
B19	TSTD_IN[2]
B20	TSTD_IN[7]
B21	TSTD_IN[11]
B22	NC_B22
B23	NC_B23
B24	NC_B24
B25	VSS12
B26	VSS12

C1	NC_C1
C2	NC_C2
C3	VSS12
C4	NC_C4
C5	DIG_C_IN[3]
C6	DIG_C_IN[4]
C7	DIG_Y_IN[2]
C8	DIG_Y_IN[4]
C9	DIG_Y_IN[6]
C10	DIG_OUT[4]
C11	DIG_CLK_OUT
C12	DRAM2GND4
C13	VSS12
C14	TMODE
C15	TST2_IN[4]
C16	TST2_IN[1]
C17	TST_VD_IN
C18	TSTMODE[0]
C19	TSTD_IN[3]
C20	TSTD_IN[8]
C21	TSTD_IN[12]
C22	TSTD_IN[14]
C23	NC_C23
C24	VSS12
C25	NC_C25
C26	NC_C26
D1	NC_D1
D2	NC_D2
D3	DRAM1GND3
D4	VSS12
D5	NC_D5
D6	DIG_C_IN[5]
D7	DIG_C_IN[6]
D8	DIG_Y_IN[5]
D9	DIG_Y_IN[7]
D10	DIG_OUT[5]
D11	DIG_OUT[7]
D12	DIG_FIELD_OUT
D13	VSS12
D14	MONITOR
D15	TST2_IN[3]
D16	TST2_IN[0]
D17	TSTMODE[4]
D18	TSTD_IN[0]
D19	TSTD_IN[4]
D20	TSTD_IN[9]
D21	TSTD_IN[13]
D22	TSTD_IN[15]
D23	VSS12
D24	NC_D24
D25	NC_D25
D26	NC_D26

E1	NC_E1
E2	DIG_FIELD_IN
E3	DRAM1GND1
E4	DRAM12VDD1
E5	VSS12
E6	VSS12
E7	VDDC
E8	DIG_C_IN[7]
E9	VDDS
E10	DIG_OUT[6]
E11	VDDC
E12	DIG_VD_OUT
E13	VSS12
E14	VSS12
E15	NC_E15
E16	VDDC
E17	TSTMODE[3]
E18	VDDS
E19	TSTD_IN[5]
E20	VDDC
E21	VSS12
E22	VSS12
E23	NC_E23
E24	NC_E24
E25	NC_E25
E26	NC_E26
F1	NC_F1
F2	DIG_VD_IN
F3	SYNC_OUT
F4	DRAM11VDD1
F5	VSS12
F22	VSS12
F23	NC_F23
F24	NC_F24
F25	NC_F25
F26	DRAM2GND5
G1	NC-G1
G2	DRAM1GND2
G3	DIG_HD_IN
G4	CSYNC_IN
G5	VDDC
G22	VDDC
G23	DRAM22VDD1
G24	DRAM21VDD1
G25	DRAM2GND6
G26	NC_G26

H1	DTCLK
H2	DIG_CLK_IN
H3	DRAM11VDD2
H4	NC_H4
H5	PCH_IN
H22	NC_H22
H23	DRAM21VDD2
H24	DRAM2GND2
H25	RESET
H26	NC_H26
J1	NC_J1
J2	DTMB
J3	NC_J3
J4	PCV_IN
J5	VDDS
J22	VDDS
J23	SDA
J24	SCL
J25	LCD_VD
J26	NC_J26
K1	PCR_IN[7]
K2	PCR_IN[6]
K3	PCR_IN[5]
K4	PCR_IN[4]
K5	NC_K5
K22	ENAB
K23	LCD_HD
K24	DRAM21VDD5
K25	LCD_NCLK_OUT
K26	LCD_CLK_OUT
L1	PCG_IN[7]
L2	PCR_IN[3]
L3	PCR_IN[2]
L4	PCR_IN[1]
L5	PCR_IN[2]
L11	VSS12
L12	VSS12
L13	VSS12
L14	VSS12
L15	VSS12
L16	VSS12
L22	VDDC
L23	DRAM2GND1
L24	BLUE2[2]
L25	BLUE2[1]
L26	BLUE2[0]

M1	PCG_IN[6]
M2	PCG_IN[5]
M3	NC_M3
M4	PCR_IN[0]
M5	NC_M5
M11	VSS12
M12	VSS12
M13	VSS12
M14	VSS12
M15	VSS12
M16	VSS12
M22	BLUE2[7]
M23	BLUE2[6]
M24	BLUE2[5]
M25	BLUE2[4]
M26	BLUE2[3]
N1	PCG_IN[4]
N2	PCG_IN[3]
N3	PCG_IN[2]
N4	PCG_IN[1]
N5	VSS12
N11	VSS12
N12	VSS12
N13	VSS12
N14	VSS12
N15	VSS12
N16	VSS12
N22	VSS12
N23	DRAM2GND3
N24	DRAM21VDD3
N25	GREEN2[1]
N26	GREEN2[0]
P1	VSS12
P2	VSS12
P3	VSS12
P4	VSS12
P5	VSS12
P11	VSS12
P12	VSS12
P13	VSS12
P14	VSS12
P15	VSS12
P16	VSS12
P22	VSS12
P23	VSS12
P24	VSS12
P25	VSS12
P26	VSS12

R1	PCCK_IN
R2	PCG_IN[0]
R3	NC_R3
R4	PCB_IN[7]
R5	PCB_IN[6]
R11	VSS12
R12	VSS12
R13	VSS12
R14	VSS12
R15	VSS12
R16	VSS12
R22	GREEN2[6]
R23	GREEN2[5]
R24	GREEN2[4]
R25	GREEN2[3]
R26	GREEN2[2]
T1	NC_T1
T2	PCB_IN[5]
T3	PCB_IN[4]
T4	PCB_IN[3]
T5	VDDC
T11	VSS12
T12	VSS12
T13	VSS12
T14	VSS12
T15	VSS12
T16	VSS12
T22	VDDC
T23	RED2[2]
T24	RED2[1]
T25	RED2[0]
T26	GREEN2[7]
U1	PCB_IN[2]
U2	PCB_IN[1]
U3	PCB_IN[0]
U4	NC_U4
U5	I_IN
U22	BLUE1[0]
U23	RED2[6]
U24	RED2[5]
U25	RED2[4]
U26	RED2[3]

V1	NC_V1
V2	YS_IN
V3	NC_V3
V4	NC_V4
V5	VDDS
V22	VDDS
V23	BLUE1[3]
V24	BLUE1[2]
V25	BLUE1[1]
V26	RED2[7]
W1	VSS12
W2	VSS12
W3	VSS12
W4	VSS12
W5	VSS12
W22	NC_W22
W23	GREEN1[0]
W24	BLUE1[6]
W25	BLUE1[5]
W26	BLUE1[4]
Y1	XO_V_IN
Y2	XO_VDD
Y3	YCLAMP2
Y4	YCLAMP1
Y5	VBIREADY
Y22	VDDC
Y23	GREEN1[2]
Y24	GREEN1[1]
Y25	BLUE1[7]
Y26	NC_Y26
AA1	XO_V_OUT
AA2	NC_AA2
AA3	NC_AA3
AA4	NC_AA4
AA5	VSS12
AA22	VSS12
AA23	GREEN1[5]
AA24	GREEN1[4]
AA25	NC_AA25
AA26	GREEN1[3]

AB1	XO_VSS
AB2	NC_AB2
AB3	NC_AB3
AB4	NC_AB4
AB5	PLL1AVDD
AB6	YAD_VDD
AB7	YVREFM
AB8	C_BIASAD
AB9	CAD_VDD
AB10	C2_BIASAD
AB11	C2AD_VDD
AB12	C3_BIASAD
AB13	C3AD_VDD
AB14	DAVDD2
AB15	DA_DVSS2
AB16	PLL2AVDD
AB17	VSS12
AB18	VDDS
AB19	OSD_VD_OUT
AB20	VDDC
AB21	VSS12
AB22	VSS12
AB23	NC_AB23
AB24	NC_AB24
AB25	GREEN1[7]
AB26	GREEN1[6]
AC1	FIL1
AC2	CKIN1
AC3	NC_AC3
AC4	NC_AC4
AC5	NC_AC5
AC6	NC_AC6
AC7	NC_AC7
AC8	NC_AC8
AC9	GREENIN
AC10	NC_AC10
AC11	BLUEIN
AC12	NC_AC12
AC13	REDIN
AC14	DAOUT2
AC15	DA_DVDD2
AC16	NC_AC16
AC17	VSS12
AC18	NC_AC18
AC19	NC_AC19
AC20	NC_AC20
AC21	SMODE
AC22	NC_AC22
AC23	VSS12
AC24	BUSSEL
AC25	NC_AC25
AC26	NC_AC26

AD1	PLL1AVSS
AD2	DA_DVDD1
AD3	NC_AD3
AD4	NC_AD4
AD5	CVBS1IN
AD6	NC_AD6
AD7	CVBS2IN
AD8	CVREFT
AD9	CVREFB
AD10	C2VREFT
AD11	C2VREFB
AD12	C3VREFT
AD13	NC_AD13
AD14	C3VREFB
AD15	DAVREF2
AD16	NC-AD16
AD17	VSS12
AD18	OSDGB_D2B_IN
AD19	OSD_HD_OUT
AD20	OSDGA_D2A_IN
AD21	NC_AD21
AD22	RED1[7]
AD23	RED1[6]
AD24	VSS12
AD25	RED1[1]
AD26	RED1[0]
AE1	DAVDD1
AE2	DAOUT1
AE3	DAVREF1
AE4	DA_DVSS1
AE5	NC_AE5
AE6	NC_AE6
AE7	NC_AE7
AE8	NC_AE8
AE9	CIN
AE10	NC_AE10
AE11	CBIN
AE12	NC_AE12
AE13	CRIN
AE14	NC_AE14
AE15	DABIAS22
AE16	FIL2
AE17	VSS12
AE18	OSDRB_D1B_IN
AE19	OSDIB_D4B_IN
AE20	OSDRA_D1A_IN
AE21	OSDIA_D4A_IN
AE22	OSD_N_CLK
AE23	RED1[5]
AE24	RED1[3]
AE25	VSS12
AE26	VSS12

AF1	NC_AF1
AF2	DAGND1
AF3	DABIAS11
AF4	Y_BIASAD
AF5	YVREFT
AF6	YAD_VSS
AF7	YVREFB
AF8	NC_AF8
AF9	CAD_VSS
AF10	C2AD_VSS
AF11	NC_AF11
AF12	NC_AF12
AF13	C3AD_VSS
AF14	DAGND2
AF15	DABIAS21
AF16	PLL2AVSS
AF17	VSS12
AF18	OSDYSB_IN
AF19	OSDBB_D3B_IN
AF20	OSDYSA_IN
AF21	OSDBA_D3A_IN
AF22	OSD_CLK
AF23	RED1[4]
AF24	RED1[2]
AF25	VSS12
AF26	VSS12

2-3. Functions Of Pins

BLOCK		NUMBER OF PINS	PIN NAME	PIN TYPE		FUNCTION
				I/O	TYPE	
F/E	X' tal	4	XO VDD		VDD	CRYSTAL-OSCILLATOR CIRCUIT BLOCK POWER SUPPLY PIN
			XO V in	I	D	CRYSTAL-OSCILLATOR CIRCUIT INPUT PIN
			XO V out	O	D	CRYSTAL-OSCILLATOR CIRCUIT OUTPUT PIN
			XO GND		GND	CRYSTAL-OSCILLATOR CIRCUIT BLOCK GND
	10bit A/D	8	Y_BIASAD		A	BIAS VOLTAGE PIN FOR 10-bit A/D
			YVREFT		A	10-bit A/D REFERENCE TOP VOLTAGE PIN
			CVBS1in	I	A	CVBS-1/Y-1 ANALOG VIDEO SIGNAL INPUT PIN
			YVREFM		A	10-bit A/D REFERENCE MIDDLE VOLTAGE PIN
			YAD GND		GND	10-bit A/D REFERENCE TOP VOLTAGE PIN
			CVBS2 in	I	A	CVBS-2/Y-2 ANALOG VIDEO SIGNAL INPUT PIN
			YAD VDD		VDD	10-bit A/D BLOCK POWER SUPPLY PIN
			YVREFB		A	10-bit A/D REFERENCE BOTTOM VOLTAGE PIN
	3ch. 8bit A/D	21	C_BIASAD		A	BIAS VOLTAGE PIN FOR 8-bit A/D (1)
			CVREFT		A	8-bit A/D (1) REFERENCE TOP VOLTAGE PIN
			C in I		A	C INPUT
			CAD VDD		VDD	8-bit A/D (1) CORE POWER SUPPLY PIN
			Green in	I	A	G INPUT
			CVREFB		A	8-bit A/D (1) REFERENCE BOTTOM VOLTAGE PIN
			CAD GND		GND	8-bit A/D (1) CORE GND
			C2_BIASAD		A	BIAS VOLTAGE PIN FOR 8-bit A/D (2)
			C2VREFT		A	8-bit A/D (2) REFERENCE TOP VOLTAGE PIN
			Cb in	I	A	Cb INPUT
			C2AD VDD		VDD	8-bit A/D (2) CORE POWER SUPPLY PIN
			Blue in	I	A	B INPUT
			C2VREFB		A	8-bit A/D (2) REFERENCE BOTTOM VOLTAGE PIN
			C2AD GND		GND	8-bit A/D (2) CORE GND
			C3_BIASAD		A	BIAS VOLTAGE PIN FOR 8-bit A/D (3)
			C3VREFT		A	8-bit A/D (3) REFERENCE TOP VOLTAGE PIN
			Cr in	I	A	Cr INPUT
			C3AD VDD		VDD	8-bit A/D (3) CORE POWER SUPPLY PIN
			Red in	I	A	R INPUT
			C3VREFB		A	8-bit A/D (3) REFERENCE BOTTOM VOLTAGE PIN
			C3AD GND		GND	8-bit A/D (3) CORE GND
	10bit D/A	8	DA VDD 1		VDD	10-bit D/A BLOCK POWER SUPPLY PIN
			DA out 1	O	A	Y, Cb & Cr OUTPUT
			DA GND 1		GND	10-bit D/A BLOCK GND
			DABIAS 11		A	BIAS VOLTAGE PIN FOR 10-bit D/A
			DABIAS 1 2		A	BIAS VOLTAGE PIN FOR 10-bit D/A
			DAVREF 1		A	10-bit D/A REFERENCE VOLTAGE PIN
			DA DVDD 1		VDD	10-bit D/A BLOCK DIGITAL POWER SUPPLY PIN
			DA DVSS 1		GND	0-bit D/A BLOCK DIGITAL GND PIN
	8bit D/A	7	DA VDD2		VDD	8-bit D/A BLOCK POWER SUPPLY PIN
			DA out2	O	A	6.75MHz Æ 27MHz
			DA GND2		GND	8-bit D/A BLOCK GND
			DABIAS21		A	BIAS VOLTAGE PIN FOR 8-bit D/A
			DAVREF2		A	8-bit D/A REFERENCE VOLTAGE PIN
			DA DVDD2		VDD	8-bit D/A BLOCK DIGITAL POWER SUPPLY PIN
			DA DVSS2		GND	8-bit D/A BLOCK DIGITAL GND PIN
	PLL(F/E)	4	4TPLL in	I	A	6.75MHz INPUT
			AVDDPLL		VDD	POWER SUPPLY FOR PLL (F/E)

			FIL		A	FILTER PIN
			AGNDPLL		GND	GND FOR PLL (F/E)
	PLL (B/E)	3	AVDDPLL		VDD	POWER SUPPLY FOR PLL (B/E)
			FIL		A	FILTER PIN
			AGNDPLL		GND	GND FOR PLL (B/E)
	TeleTEXT	2	Ys in	I	D	Scart/TeleTEXT Ys INPUT
			I in	I	D	TeleTEXT I INPUT
	F/E	5	YCLMPP 1	O	Tri	CLAMP PULSE OUTPUT FOR CVBS1 CLAMP INPUT
			YCLMPP2	O	Tri	CLAMP PULSE OUTPUT FOR CVBS2 CLAMP INPUT
			Sync out	O	D	Sync OUTPUT
			Csync in	I	D	COMPOSITE Sync INPUT
			VBIREADY	O	D	VBIREADY OUTPUT
Digital in	PC in	27	PCR in [7]	I	D	PC-R SIGNAL INPUT PIN
			PCR in [6]	I	D	
			PCR in [5]	I	D	
			PCR in [4]	I	D	
			PCR in [3]	I	D	
			PCR in [2]	I	D	
			PCR in [1]	I	D	
			PCR in [0]	I	D	
			PCG in [7]	I	D	PC-G SIGNAL INPUT PIN
			PCG in [6]	I	D	
			PCG in [5]	I	D	
			PCG in [4]	I	D	
			PCG in [3]	I	D	
			PCG in [2]	I	D	
			PCG in [1]	I	D	
			PCG in [0]	I	D	
			PCB in [7]	I	D	PC-B SIGNAL INPUT PIN
			PCB in [6]	I	D	
			PCB in [5]	I	D	
			PCB in [4]	I	D	
			PCB in [3]	I	D	
			PCB in [2]	I	D	
			PCB in [1]	I	D	
			PCB in [0]	I	D	
			PCH in	I	D	PC-HD SIGNAL INPUT PIN
			PCV in	I	D	PC-VD SIGNAL INPUT PIN
			PCCK in	I	D	PC CLOCK INPUT PIN
	R656 in YCbCr 8bit in YCbCr 16bit in	20	Dig Y in [7]	I	D	ITU-R656 INPUT PIN Digital YCbCr 8-bit INPUT PIN Digital YCbCr 16-bit INPUT PIN
			Dig Y in [6]	I	D	
			Dig Y in [5]	I	D	
			Dig Y in [4]	I	D	
			Dig Y in [3]	I	D	
			Dig Y in [2]	I	D	
			Dig Y in [1]	I	D	
			Dig Y in [0]	I	D	
			Dig C in [7]	I	D	
			Dig C in [6]	I	D	
			Dig C in [5]	I	D	
			Dig C in [4]	I	D	
			Dig C in [3]	I	D	
			Dig C in [2]	I	D	
			Dig C in [1]	I	D	

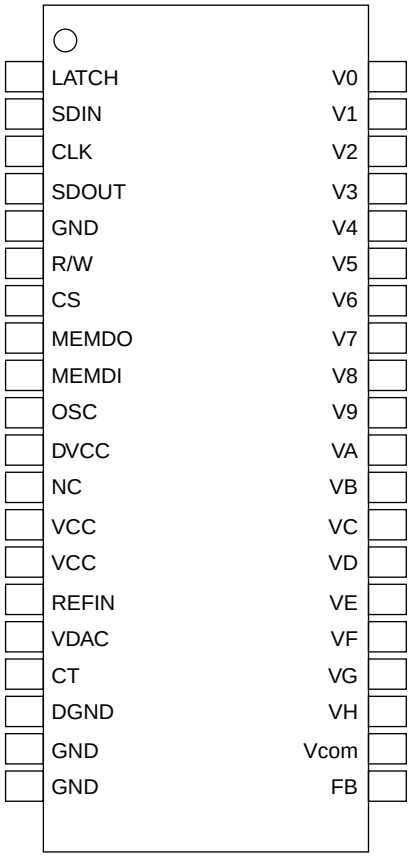
			Dig C in [0]	I	D	
			Dig CLK in	I	D	
			Dig HD in	I	D	
			Dig VD in	I	D	
			Dig Field in	I	D	
Digital out	R656 out YCbCr 8bit out	12	Dig out [7]	O	D	ITU-R656 OUTPUT PIN Digital YCbCr 8-bit OUTPUT PIN
			Dig out [6]	O	D	
			Dig out [5]	O	D	
			Dig out [4]	O	D	
			Dig out [3]	O	D	
			Dig out [2]	O	D	
			Dig out [1]	O	D	
			Dig out [0]	O	D	
			Dig CLK out	O	D	
			Dig HD out	O	D	
			Dig VD out	O	D	
			Dig Field out	O	D	
OSD	OSD I/F	14	OSDRA(d1a) in	I	D	OSD-R (data-1a) SIGNAL INPUT PIN
			OSDGA(d2a) in	I	D	OSD-G (data-2a) SIGNAL INPUT PIN
			OSDBA(d3a) in	I	D	OSD-B (data-3a) SIGNAL INPUT PIN
			OSDIA(d4a) in	I	D	OSD-I (data-4a) SIGNAL INPUT PIN
			OSDYsA in	I	D	OSD-Ys SIGNAL INPUT PIN
			OSDRB(d1b) in	I	D	OSD-R (data-1b) SIGNAL INPUT PIN
			OSDGB(d2b) in	I	D	OSD-G (data-2b) SIGNAL INPUT PIN
			OSDBB(d3b) in	I	D	OSD-B (data-3b) SIGNAL INPUT PIN
			OSDIB(d4b) in	I	D	OSD-I (data-4b) SIGNAL INPUT PIN
			OSDYsB in	I	D	OSD-Ys SIGNAL INPUT PIN
			OSD VD out	O	D	VD OUTPUT FOR OSD µ COM
			OSD HD out	O	D	HD OUTPUT FOR OSD µ COM
			OSD CLK	I/O	D	CLOCK I/O FOR OSD µ COM (POSITIVE POLARITY)
			OSD n-CLK	I/O	D	CLOCK I/O FOR OSD µ COM (NEGATIVE POLARITY)
DRAM	DRAM	20	DTMB	I	D	DRAM TEST MODE INPUT
			DTCLK	I	D	DRAM TEST CLOCK INPUT
			DRAM 1 VDD 1		VDD	1.5V VDD FOR 4M DRAM
			DRAM 1 GND 1		GND	1.5V GND FOR 4M DRAM
			DRAM 1 VDD2		VDD	1.5V VDD FOR 4M DRAM
			DRAM 1 GND2		GND	1.5V GND FOR 4M DRAM
			DRAM 1 VDD3		VDD	1.5V VDD FOR 4M DRAM
			DRAM 1 GND3		GND	1.5V GND FOR 4M DRAM
			DRAM2 VDD 1		VDD	1.5V VDD FOR 20M DRAM
			DRAM2 GND 1		GND	1.5V GND FOR 20M DRAM
			DRAM2 VDD2		VDD	1.5V VDD FOR 20M DRAM
			DRAM2 GND2		GND	1.5V GND FOR 20M DRAM
			DRAM2 VDD3		VDD	1.5V VDD FOR 20M DRAM
			DRAM2 GND3		GND	1.5V GND FOR 20M DRAM
			DRAM2 VDD4		VDD	1.5V VDD FOR 20M DRAM
			DRAM2 GND4		GND	1.5V GND FOR 20M DRAM
			DRAM2 VDD5		VDD	1.5V VDD FOR 20M DRAM
			DRAM2 GND5		GND	1.5V GND FOR 20M DRAM
			DRAM2 VDD6		VDD	2.5V VDD FOR 20M DRAM
			DRAM2 GND6		GND	2.5V GND FOR 20M DRAM
B/E	LCD I/F	53	RED 1 [7]	O	D	R SIGNAL OUTPUT PIN 1 (8bit)
			RED 1 [6]	O	D	
			RED 1 [5]	O	D	

			RED 1 [4]	O	D	
			RED 1 [3]	O	D	
			RED 1 [2]	O	D	
			RED 1 [1]	O	D	
			RED 1 [0]	O	D	
			GREEN 1 [7]	O	D	G SIGNAL OUTPUT PIN 1 (8bit)
			GREEN 1 [6]	O	D	
			GREEN 1 [5]	O	D	
			GREEN 1 [4]	O	D	
			GREEN 1 [3]	O	D	
			GREEN 1 [2]	O	D	
			GREEN 1 [1]	O	D	
			GREEN 1 [0]	O	D	
			BLUE 1 [7]	O	D	B SIGNAL OUTPUT PIN 1 (8bit)
			BLUE 1 [6]	O	D	
			BLUE 1 [5]	O	D	
			BLUE 1 [4]	O	D	
			BLUE 1 [3]	O	D	
			BLUE 1 [2]	O	D	
			BLUE 1 [1]	O	D	
			BLUE 1 [0]	O	D	
			RED2 [7]	O	D	R SIGNAL OUTPUT PIN 2 (8bit)
			RED2 [6]	O	D	
			RED2 [5]	O	D	
			RED2 [4]	O	D	
			RED2 [3]	O	D	
			RED2 [2]	O	D	
			RED2 [1]	O	D	
			RED2 [0]	O	D	
			GREEN2 [7]	O	D	G SIGNAL OUTPUT PIN 2 (8bit)
			GREEN2 [6]	O	D	
			GREEN2 [5]	O	D	
			GREEN2 [4]	O	D	
			GREEN2 [3]	O	D	
			GREEN2 [2]	O	D	
			GREEN2 [1]	O	D	
			GREEN2 [0]	O	D	
			BLUE2 [7]	O	D	B SIGNAL OUTPUT PIN 2 (8bit)
			BLUE2 [6]	O	D	
			BLUE2 [5]	O	D	
			BLUE2 [4]	O	D	
			BLUE2 [3]	O	D	
			BLUE2 [2]	O	D	
			BLUE2 [1]	O	D	
			BLUE2 [0]	O	D	
			LCD HD	O	D	HD SIGNAL OUTPUT PIN FOR DISPLAY TIMING
			LCD VD	O	D	VD SIGNAL OUTPUT PIN FOR DISPLAY TIMING
			ENAB	O	D	ENABLE
			LCD CLK out	O	D	CLOCK OUTPUT (POSITIVE POLARITY)
			LCD nCLK out	O	D	CLOCK OUTPUT (NEGATIVE POLARITY)
OTHERS	IIC	3	BUSSEL	I	D	SLAVE ADDRESS SWITCHING SETTING
			SCL	I	D	IIC CLOCK INPUT
			SDA	I/O	O/D	IIC DATA INPUT

	System Reset	2	RESET	I	D	SYSTEM RESET INPUT
			MONITOR	O	D	SYSTEM MONITOR OUTPUT (FLAG OUTPUT FOR INTERRUPT/F/E)
	J-TAG BOUNDARY SCAN	5	TCK	I	D	TEST INPUT CLOCK
			TMS	I	D	TEST MODE SELECT INPUT
			TDI	I	D	TEST MODE SELECT INPUT
			TDO	O	D	TEST RESET OUTPUT
			TRST	I	D	TEST RESET INPUT
	MODE CONTROL	7	TSTMODE [0]	I	D	TEST MODE PIN
			TSTMODE [1]	I	D	TEST MODE PIN
			TSTMODE [2]	I	D	TEST MODE PIN
			TSTMODE [3]	I	D	TEST MODE PIN
			TSTMODE [4]	I	D	TEST MODE PIN
			MBIST	I	D	MEMORY BIST MODE PIN
			SCAN	I	D	SCAN TEST MODE PIN
	TEST INPUT	26	TSTD2 in [4]	I	D	TEST-ONLY INPUT PIN
			TSTD2 in [3]	I	D	
			TSTD2 in [2]	I	D	
			TSTD2 in [1]	I	D	
			TSTD2 in [0]	I	D	
			TSTD in [15]	I	D	
			TSTD in [14]	I	D	
			TSTD in [13]	I	D	
			TSTD in [12]	I	D	
			TSTD in [11]	I	D	
			TSTD in [10]	I	D	
			TSTD in [9]	I	D	
			TSTD in [8]	I	D	
			TSTD in [7]	I	D	
			TSTD in [6]	I	D	
			TSTD in [5]	I	D	
			TSTD in [4]	I	D	
			TSTD in [3]	I	D	
			TSTD in [2]	I	D	
			TSTD in [1]	I	D	
			TSTD in [0]	I	D	
			TST CK 1 in	I	D	
			TST CK2 in	I	D	
			TST VD in	I	D	
			TST HD in	I	D	
			TSTOE in	I	D	
	POWER SUPPLY	α	3.3V VDD			
			3.3V GND			
			2.5V VDD			
			2.5V GND			
Total	251					
	+α					

3. IC1101 (VHiBD8132FV-1Y)

3-1. Pin Configuration

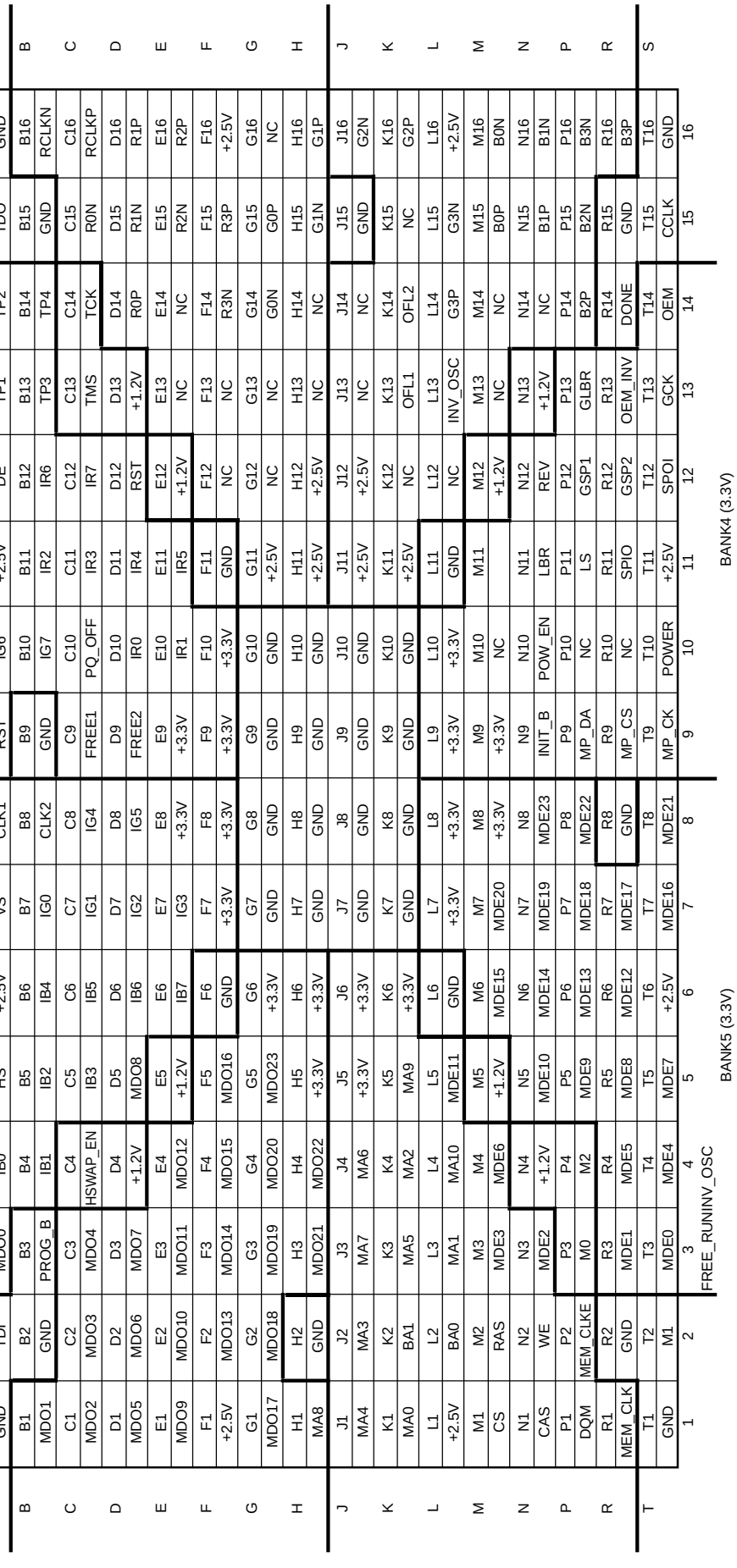


3-2. Functions Of Pins

PIN No	PIN NAME	FUNCTION	PIN No	PIN NAME	FUNCTION
1	LATCH	SERIAL LATCH INPUT	21	FB	Vcc AMP NEGATIVE FEEDBACK INPUT
2	SDIN	SERIAL DATA INPUT	22	Vcom	Vcom OUTPUT PIN
3	CLK	SERIAL CLOCK INPUT	23	VH	GRAY SCALE OUTPUT PIN
4	SDOUT	SERIAL DATA OUTPUT	24	VG	GRAY SCALE OUTPUT PIN
5	GND	GND INPUT	25	VF	GRAY SCALE OUTPUT PIN
6	R/W	AUTO READ ON/OFF INPUT (ON=L, OFF=H)	26	VE	GRAY SCALE OUTPUT PIN
7	CS	EXTERNAL MEMORY SELECTION OUTPUT	27	VD	GRAY SCALE OUTPUT PIN
8	MEMDO	EXTERNAL MEMORY OUTPUT DATA SIGNAL	28	VC	GRAY SCALE OUTPUT PIN
9	MEMDI	EXTERNAL MEMORY INPUT DATA SIGNAL	29	VB	GRAY SCALE OUTPUT PIN
10	OSC	TUNING CLOCK INPUT/OUTPUT	30	VA	GRAY SCALE OUTPUT PIN
11	DVCC	LOGIC POWER SUPPLY INPUT	31	V9	GRAY SCALE OUTPUT PIN
12	NC	—	32	V8	GRAY SCALE OUTPUT PIN
13	VCC	BUFFER AMP POWER SUPPLY INPUT	33	V7	GRAY SCALE OUTPUT PIN
14	VCC	BUFFER AMP POWER SUPPLY INPUT	34	V6	GRAY SCALE OUTPUT PIN
15	REFIN	DAC REFERENCE INPUT	35	V5	GRAY SCALE OUTPUT PIN
16	VDAC	DAC POWER SUPPLY OUTPUT	36	V4	GRAY SCALE OUTPUT PIN
17	CT	CAPACITY CONNECTING PIN FOR POWER-ON RESET	37	V3	GRAY SCALE OUTPUT PIN
18	DGND	GND INPUT FOR DAC	38	V2	GRAY SCALE OUTPUT PIN
19	GND	GND INPUT	39	V1	GRAY SCALE OUTPUT PIN
20	GND	GND INPUT	40	V0	GRAY SCALE OUTPUT PIN

4. IC1201 (RH-iXA990WJZZQ)

4-1. Pin Configuration



4-2. Description Of Pins

	Location	Name
1	A1	GND
2	A2	TDI
3	A3	MDO0
4	A4	IB0
5	A5	HS
6	A6	VCCAUX
7	A7	VS
8	A8	CLK1
9	A9	PMUTE
10	A10	IG6
11	A11	VCCAUX
12	A12	DE
13	A13	TP1*
14	A14	TP2*
15	A15	TDO
16	A16	GND
17	B1	MDO1
18	B2	GND
19	B3	PROG_B
20	B4	IB1
21	B5	IB2
22	B6	IB4
23	B7	IG0
24	B8	CLK2*
25	B9	GND
26	B10	IG7
27	B11	IR2
28	B12	IR6
29	B13	TP3*
30	B14	TP4*
31	B15	GND
32	B16	RCLKN
33	C1	MDO2
34	C2	MDO3
35	C3	MDO4
36	C4	HSWAP_EN
37	C5	IB3
38	C6	IB5
39	C7	IG1
40	C8	IG4
41	C9	FREE1*
42	C10	PQ_OFF*
43	C11	IR3
44	C12	IR7
45	C13	TMS
46	C14	TCK
47	C15	R0N
48	C16	RCLKP
49	D1	MDO5
50	D2	MDO6
51	D3	MDO7
52	D4	VCCINT
53	D5	MDO8
54	D6	IB6
55	D7	IG2
56	D8	IG5
57	D9	FREE2*
58	D10	IR0
59	D11	IR4
60	D12	RST
61	D13	VCCINT
62	D14	R0P
63	D15	R1N
64	D16	R1P

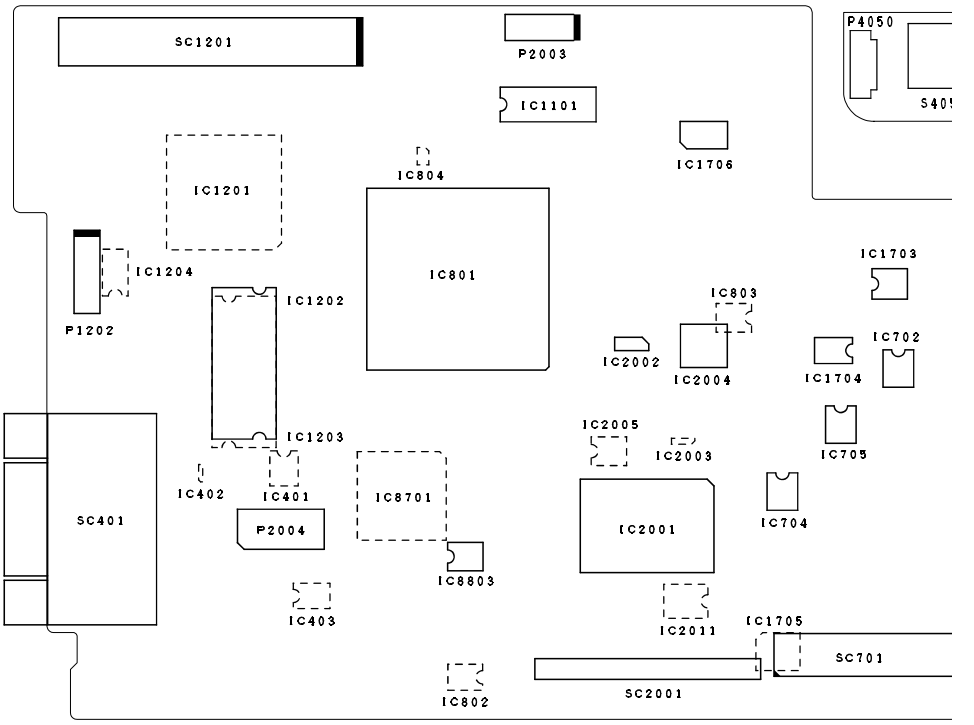
	Location	Name
65	E1	MDO9
66	E2	MDO10
67	E3	MDO11
68	E4	MDO12
69	E5	VCCINT
70	E6	IB7
71	E7	IG3
72	E8	VCCO33
73	E9	VCCO33
74	E10	IR1
75	E11	IR5
76	E12	VCCINT
77	E13	NC
78	E14	NC
79	E15	R2N
80	E16	R2P
81	F1	VCCAUX
82	F2	MDO13
83	F3	MDO14
84	F4	MDO15
85	F5	MDO16
86	F6	GND
87	F7	VCCO33
88	F8	VCCO33
89	F9	VCCO33
90	F10	VCCO33
91	F11	GND
92	F12	NC
93	F13	NC
94	F14	R3N
95	F15	R3P
96	F16	VCCAUX
97	G1	MDO17
98	G2	MDO18
99	G3	MDO19
100	G4	MDO20
101	G5	MDO23
102	G6	VCCO33
103	G7	GND
104	G8	GND
105	G9	GND
106	G10	GND
107	G11	VCCO25
108	G12	NC
109	G13	NC
110	G14	G0N
111	G15	G0P
112	G16	NC
113	H1	MA8
114	H2	GND
115	H3	MDO21
116	H4	MDO22
117	H5	VCCO33
118	H6	VCCO33
119	H7	GND
120	H8	GND
121	H9	GND
122	H10	GND
123	H11	VCCO25
124	H12	VCCO25
125	H13	NC
126	H14	NC
127	H15	G1N
128	H16	G1P

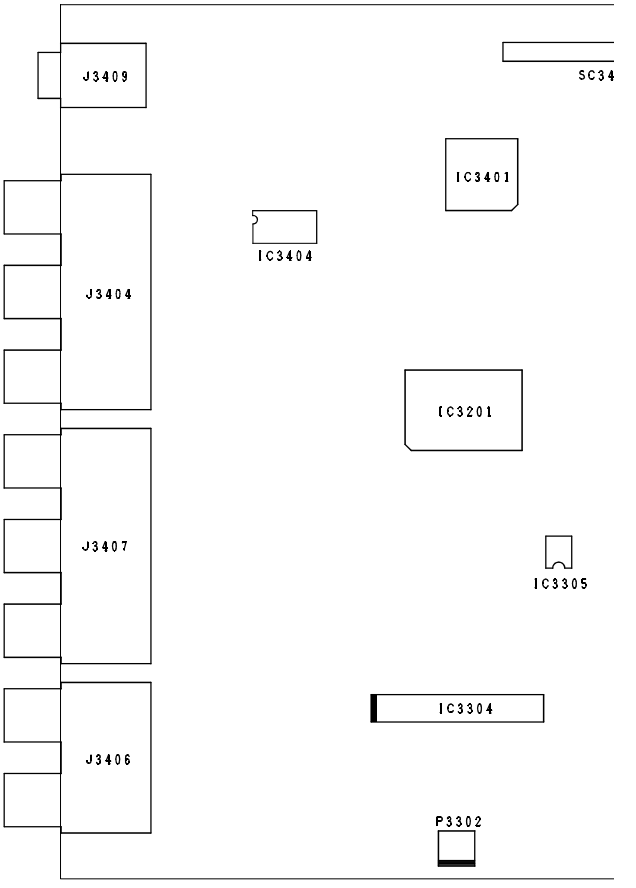
	Location	Name
129	J1	MA4
130	J2	MA3
131	J3	MA7
132	J4	MA6
133	J5	VCCO33
134	J6	VCCO33
135	J7	GND
136	J8	GND
137	J9	GND
138	J10	GND
139	J11	VCCO25
140	J12	VCCO25
141	J13	NC
142	J14	NC
143	J15	GND
144	J16	G2N
145	K1	MA0
146	K2	BA1
147	K3	MA5
148	K4	MA2
149	K5	MA9
150	K6	VCCO33
151	K7	GND
152	K8	GND
153	K9	GND
154	K10	GND
155	K11	VCCO25
156	K12	NC
157	K13	OFL1
158	K14	OFL2
159	K15	NC
160	K16	G2P
161	L1	VCCAUX
162	L2	BA0
163	L3	MA1
164	L4	MA10
165	L5	MDE11
166	L6	GND
167	L7	VCCO33
168	L8	VCCO33
169	L9	VCCO33
170	L10	VCCO33
171	L11	GND
172	L12	NC
173	L13	INV_OSC
174	L14	G3P
175	L15	G3N
176	L16	VCCAUX
177	M1	CS
178	M2	RAS
179	M3	MDE3
180	M4	MDE6
181	M5	VCCINT
182	M6	MDE15
183	M7	MDE20
184	M8	VCCO33
185	M9	VCCO33
186	M10	NC
187	M11	DIN
188	M12	VCCINT
189	M13	NC
190	M14	NC
191	M15	B0P
192	M16	B0N

	Location	Name
193	N1	CAS
194	N2	WE
195	N3	MDE2
196	N4	VCCINT
197	N5	MDE10
198	N6	MDE14
199	N7	MDE19
200	N8	MDE23
201	N9	INIT_B
202	N10	POW_EN
203	N11	LBR
204	N12	REV
205	N13	VCCINT
206	N14	NC
207	N15	B1P
208	N16	B1N
209	P1	DQM
210	P2	MEM_CLKE
211	P3	M0
212	P4	M2
213	P5	MDE9
214	P6	MDE13
215	P7	MDE18
216	P8	MDE22
217	P9	MP_DA
218	P10	NC
219	P11	LS
220	P12	GSP1
221	P13	GLBR
222	P14	B2P
223	P15	B2N
224	P16	B3N
225	R1	MEM_CLK*
226	R2	GND
227	R3	MDE1
228	R4	MDE5
229	R5	MDE8
230	R6	MDE12
231	R7	MDE17
232	R8	GND
233	R9	MP_CS
234	R10	NC
235	R11	SPIO
236	R12	GSP2
237	R13	OEM_INV
238	R14	DONE
239	R15	GND
240	R16	B3P
241	T1	GND
242	T2	M1
243	T3	MDE0
244	T4	MDE4
245	T5	MDE7
246	T6	VCCAUX
247	T7	MDE16
248	T8	MDE21
249	T9	MP_CK
250	T10	POWER
251	T11	VCCAUX
252	T12	SPOI
253	T13	GCK
254	T14	OEM
255	T15	CCLK
256	T16	GND

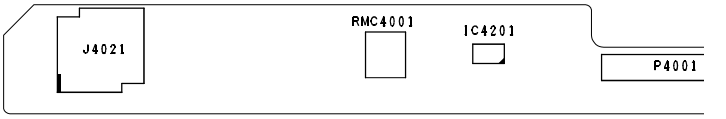
CHASSIS LAYOUT

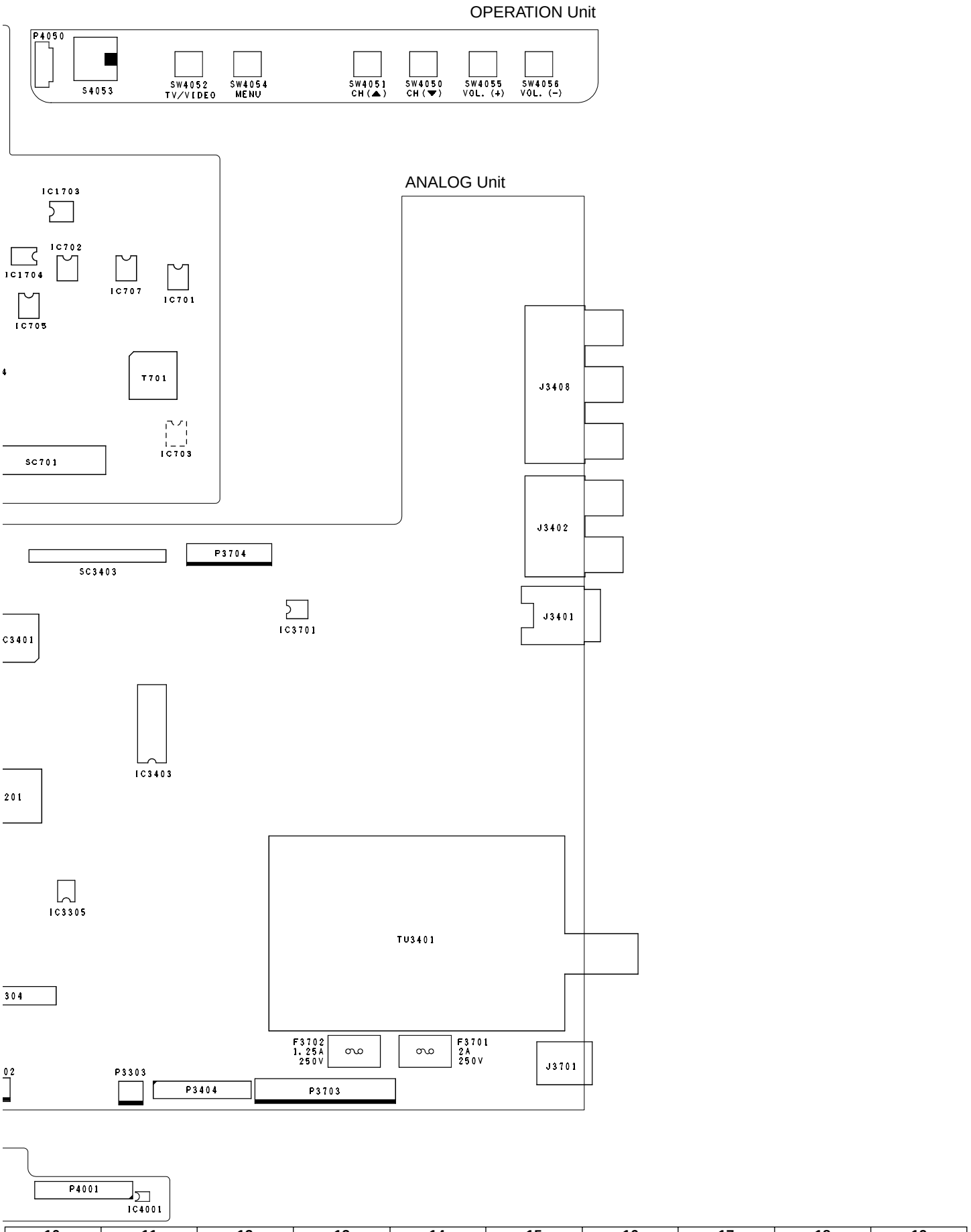
MAIN Unit





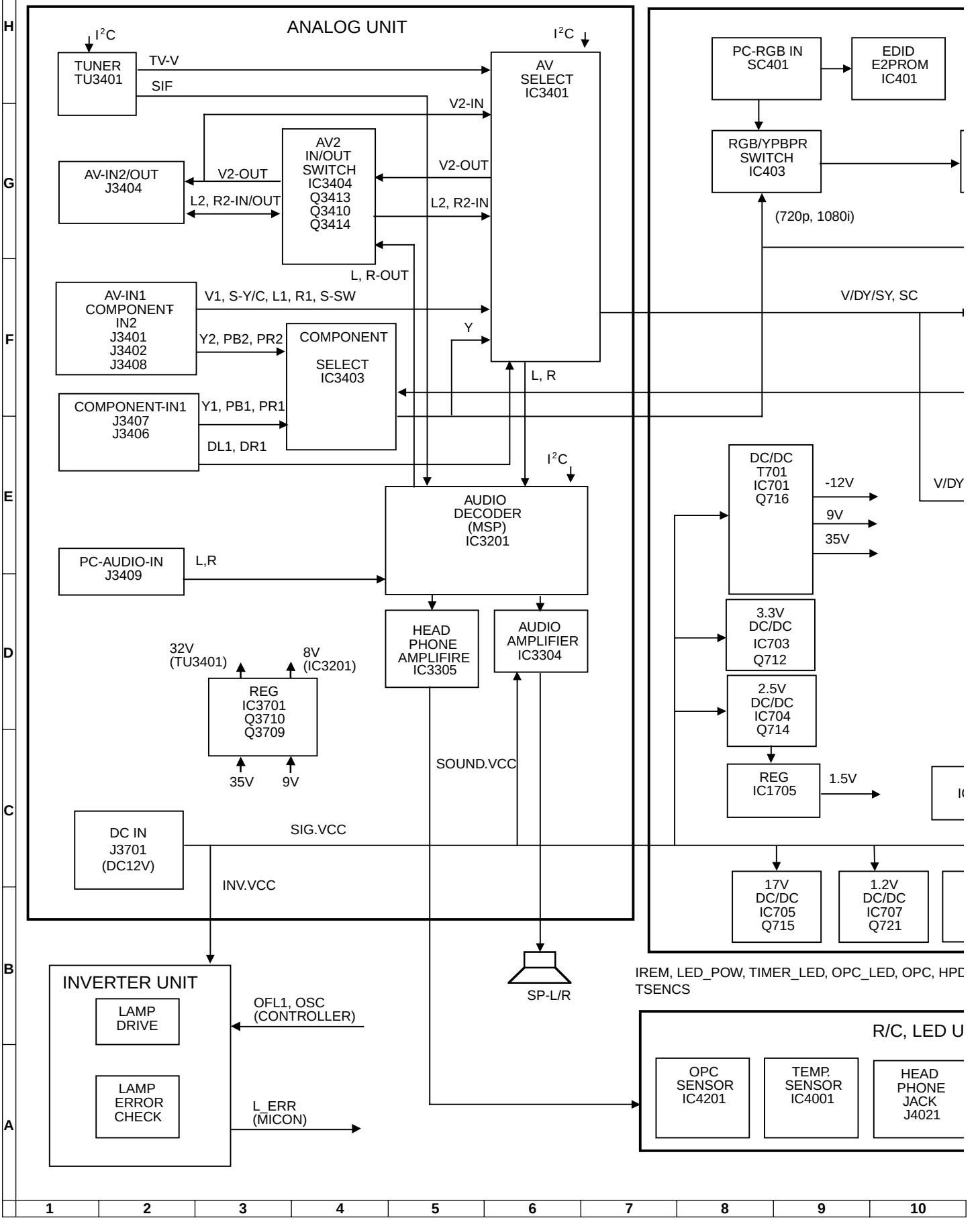
R/C, LED Unit

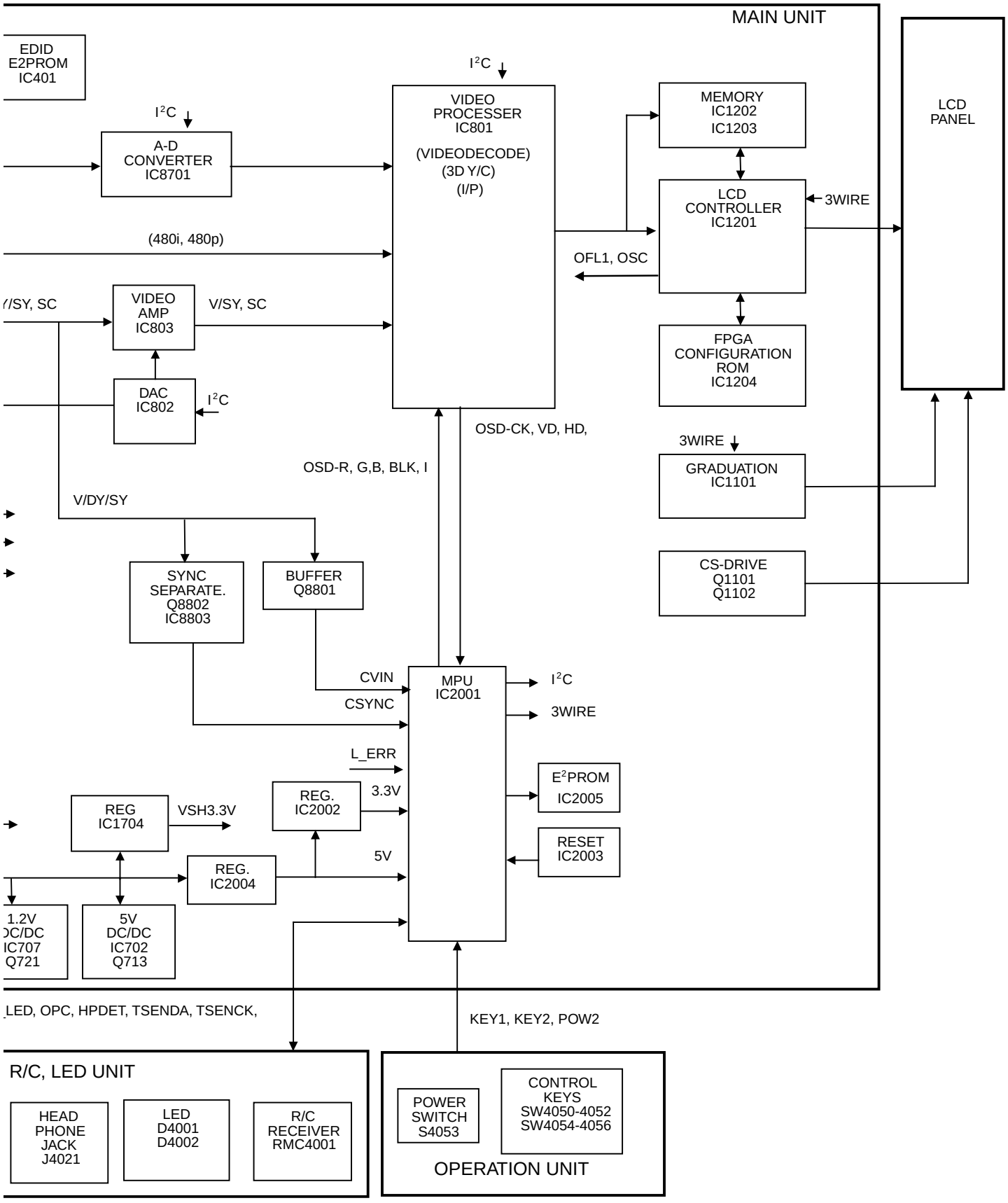




10	11	12	13	14	15	16	17	18	19

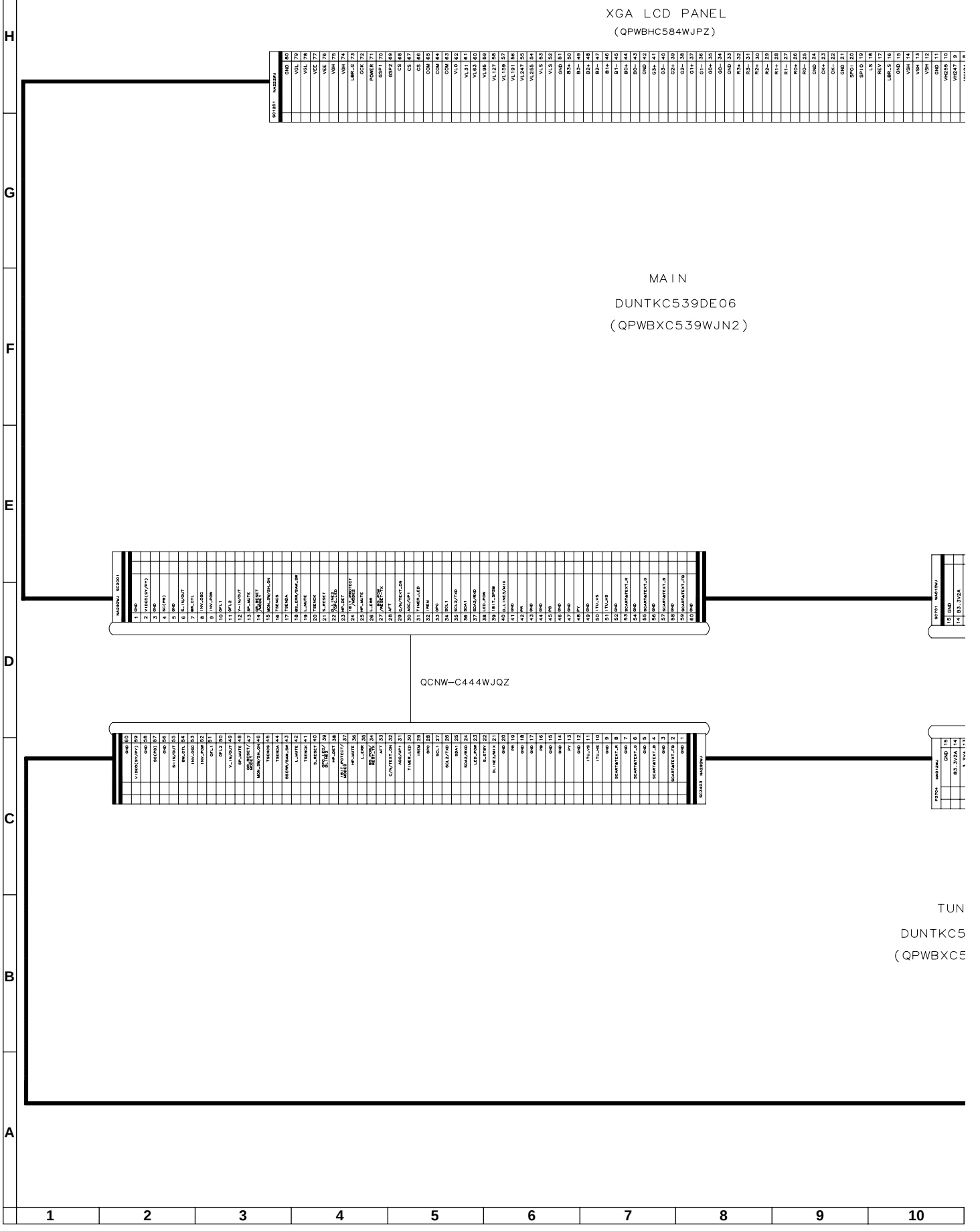
BLOCK DIAGRAM

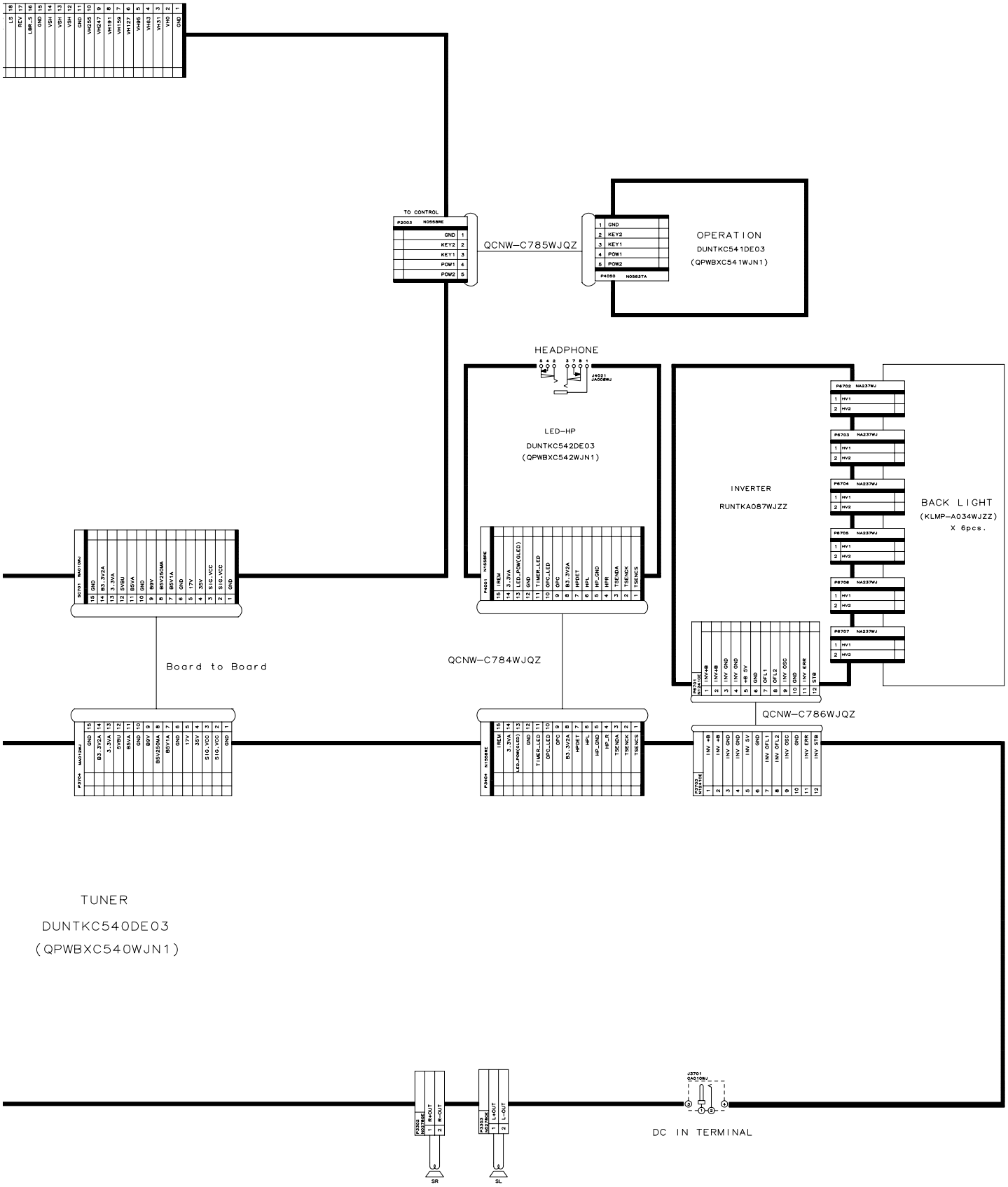




10	11	12	13	14	15	16	17	18	19

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 Ⓦ: Cement
   Ⓢ: Oxide Film Ⓣ: Special
   Ⓝ: Metal Coating

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 (TA): Tantalum
   (PF): Polypro Film (ST): Styrol

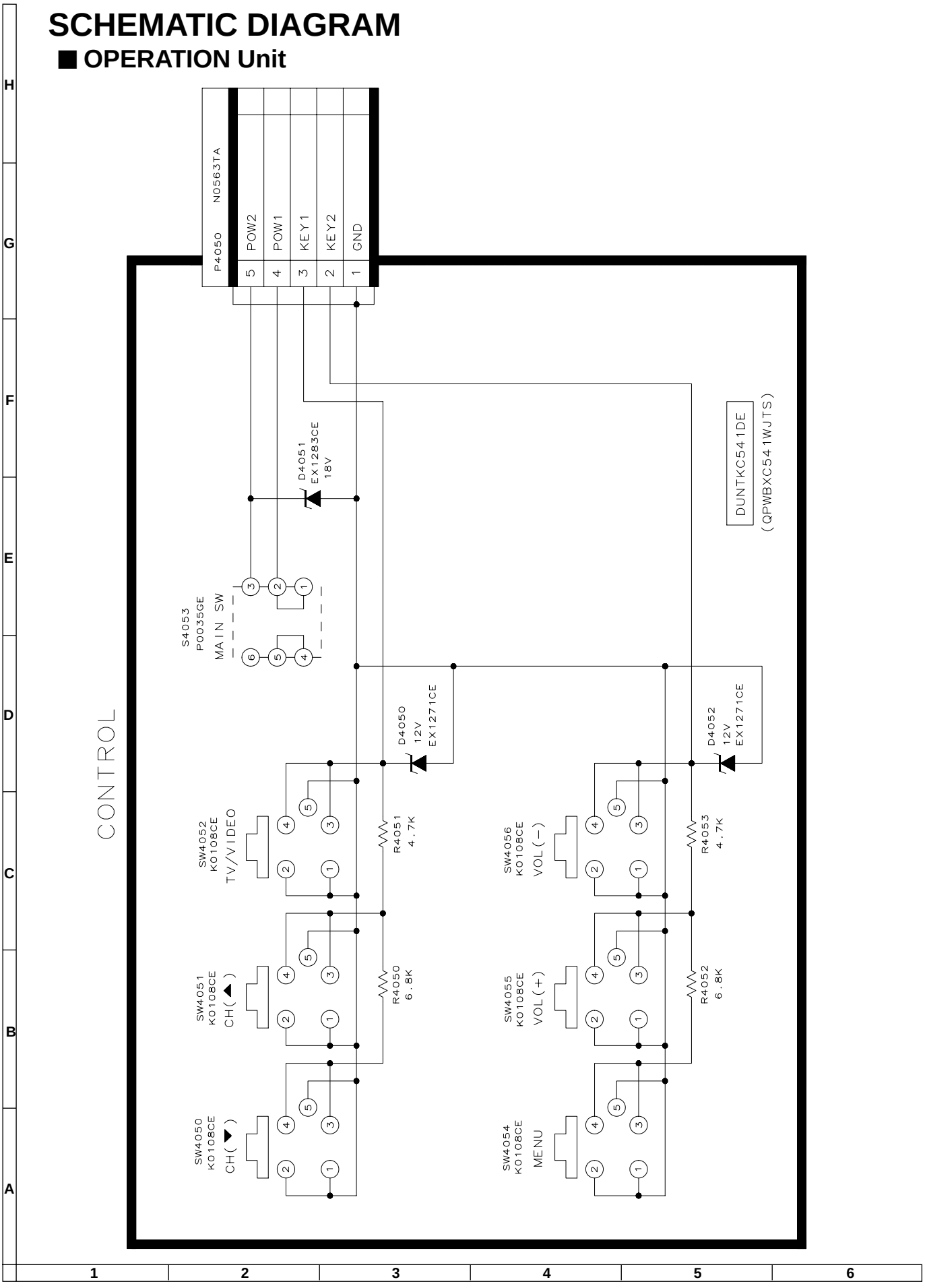
CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

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.

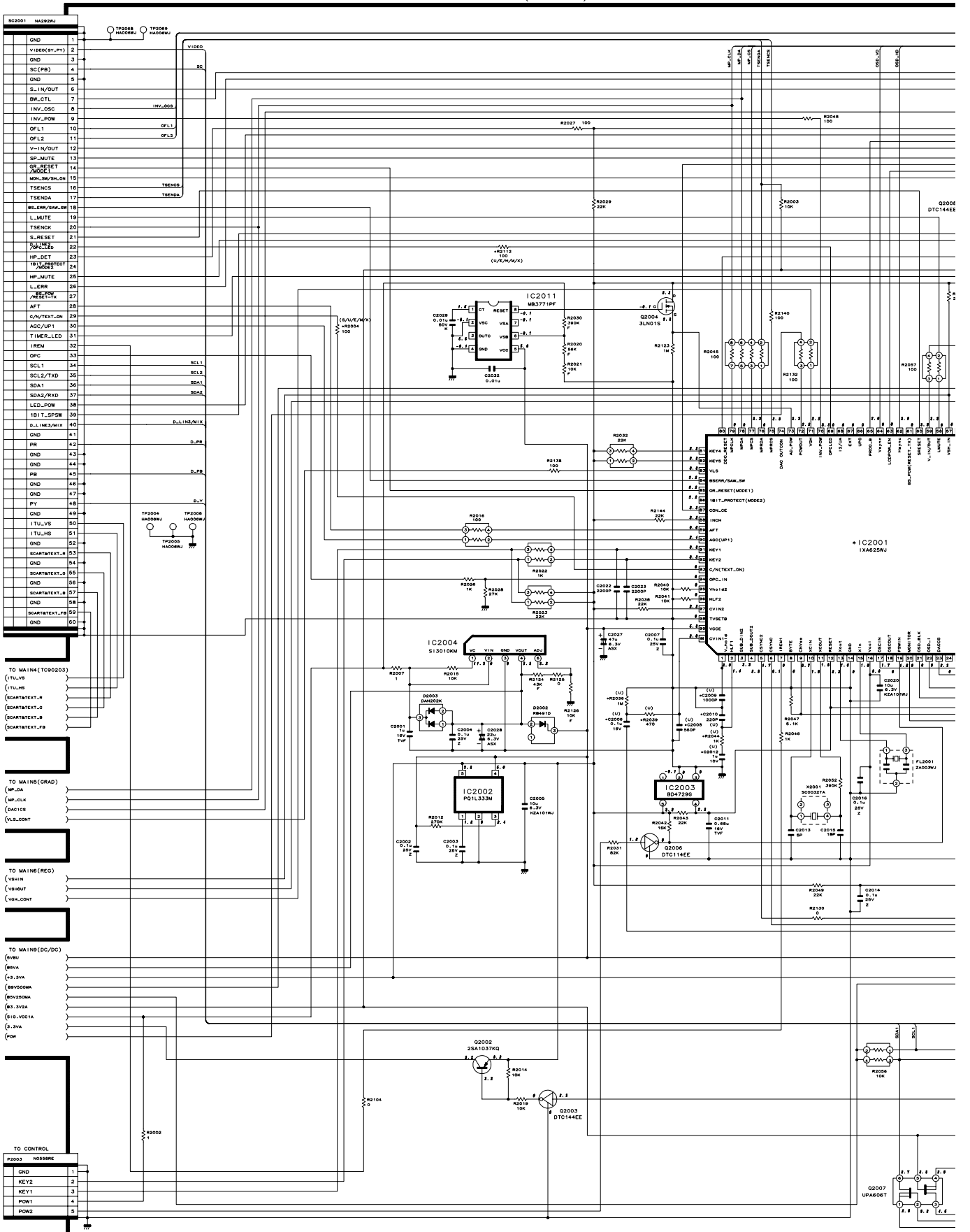
SCHEMATIC DIAGRAM

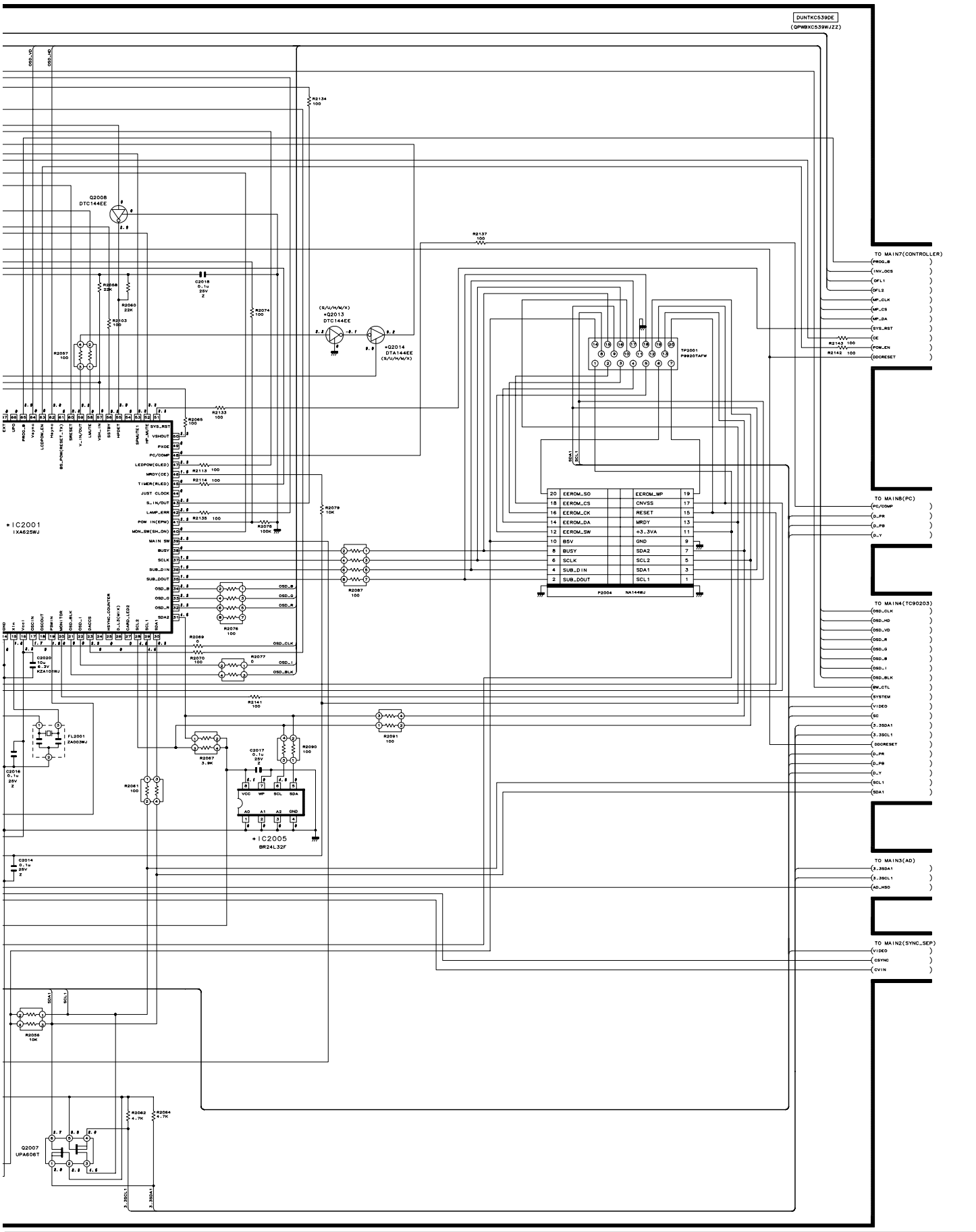
■ OPERATION Unit



■MAIN Unit-1/9

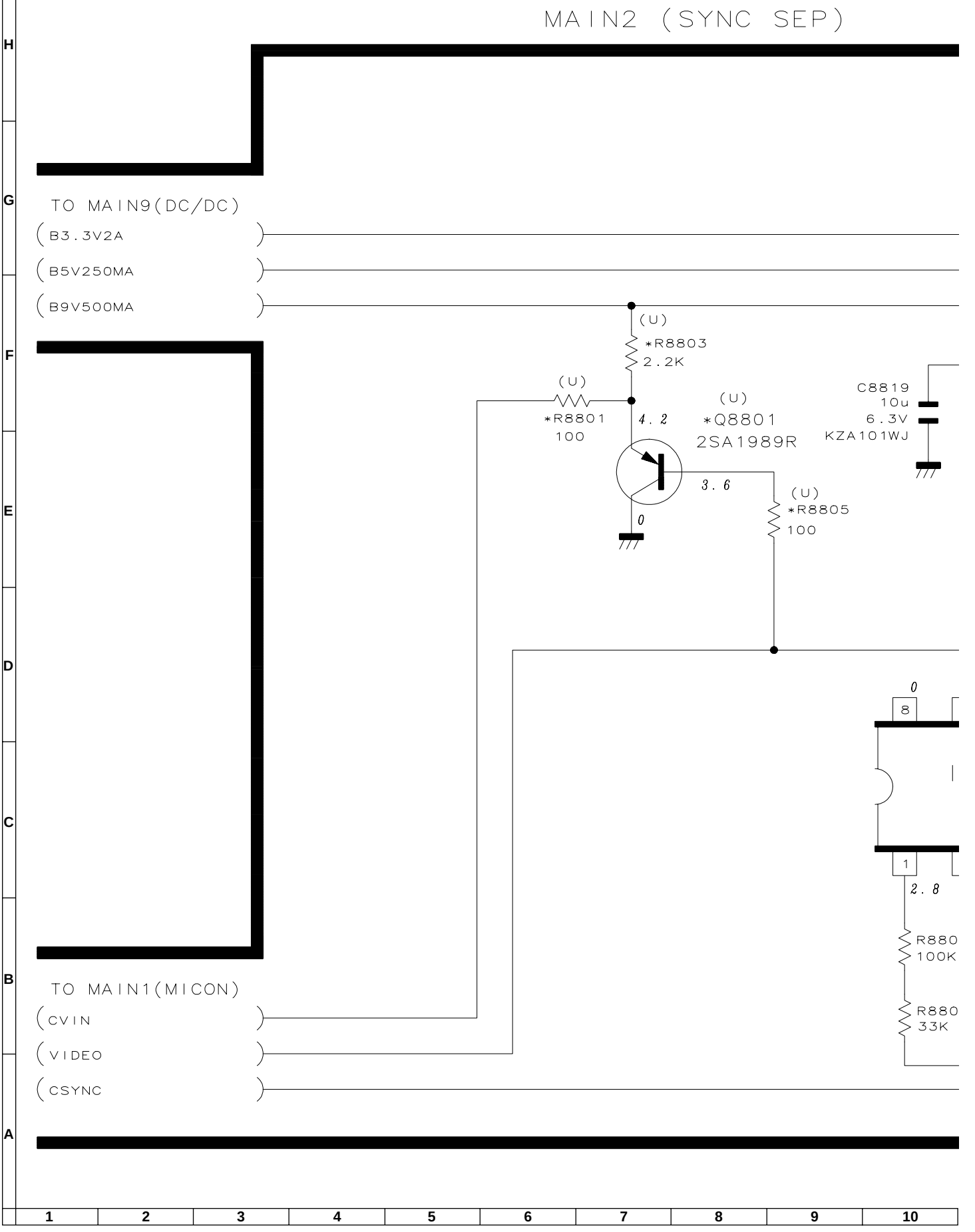
MAIN1 (MICON)

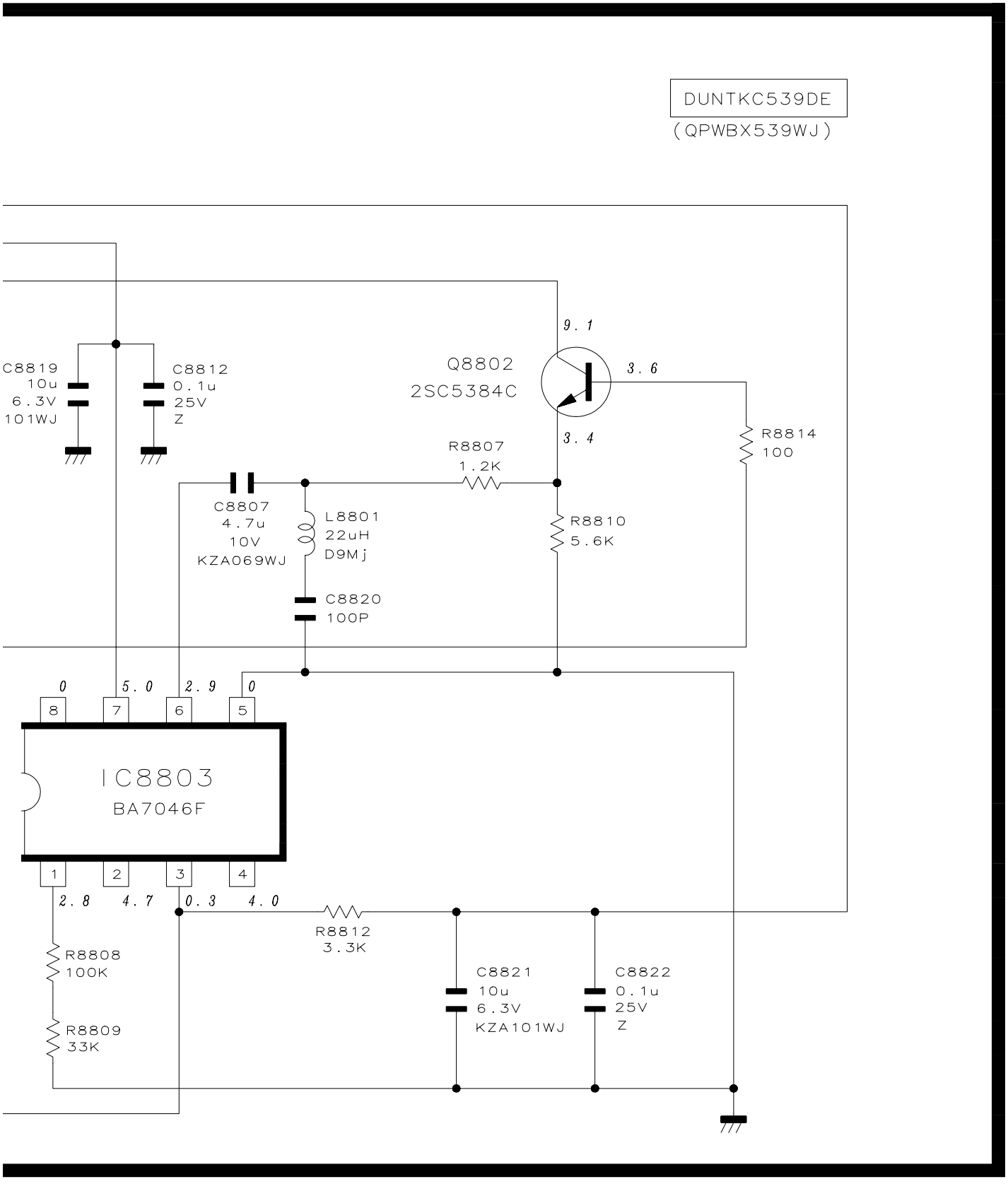




10	11	12	13	14	15	16	17	18	19

■MAIN Unit-2/9

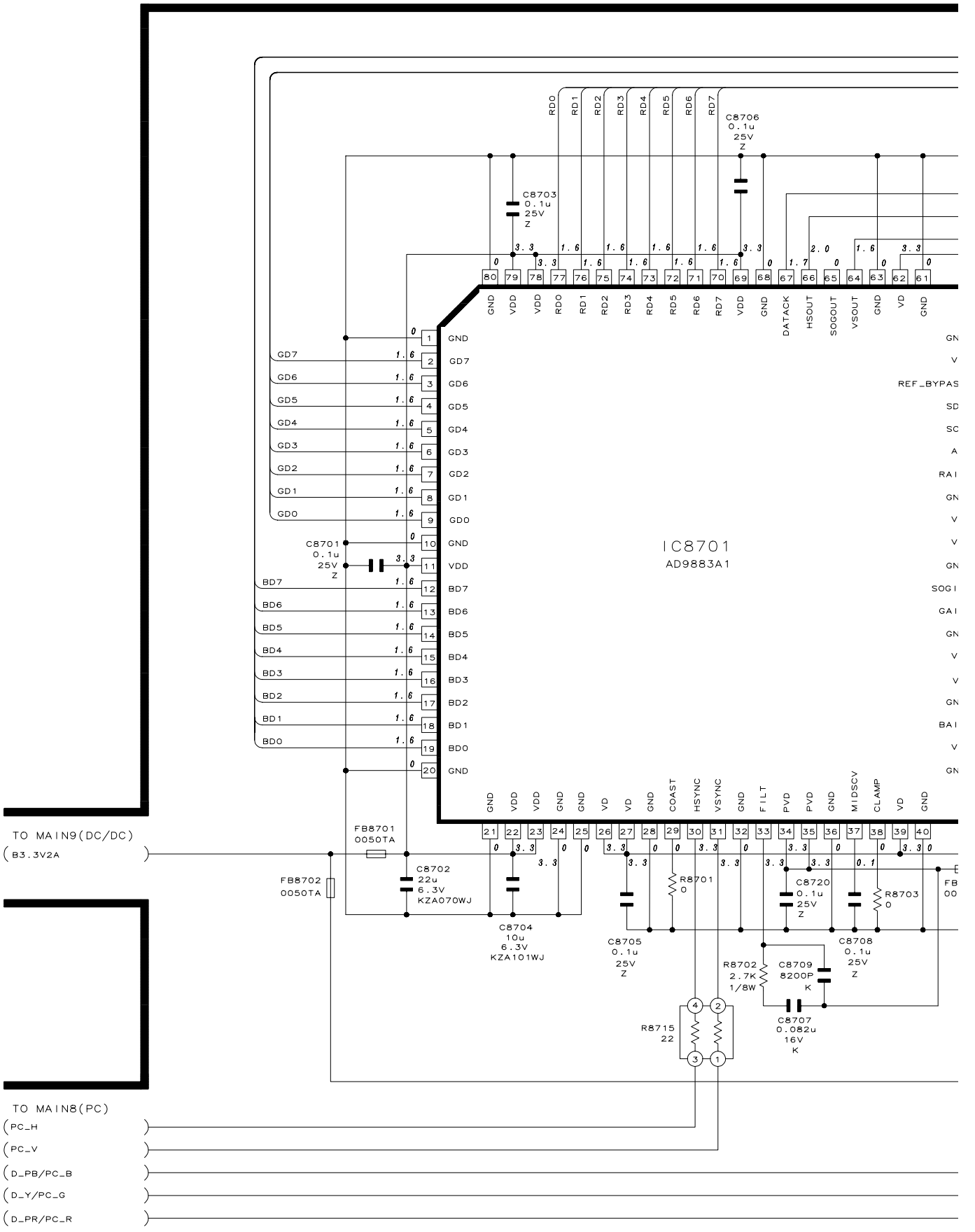

MAIN2 (SYNC SEP)
TO MAIN9(DC/DC)
B3.3V2A
B5V250MA
B9V500MA
(U)
*R8803
2.2K
(U)
*R8801
100
4.2
(U)
*Q8801
2SA1989R
C8819
10u
6.3V
KZA101WJ
3.6
(U)
*R8805
100
0
0
8
1
2.8
R880
100K
R880
33K
TO MAIN1(MICON)
CVIN
VIDEO
CSYNC

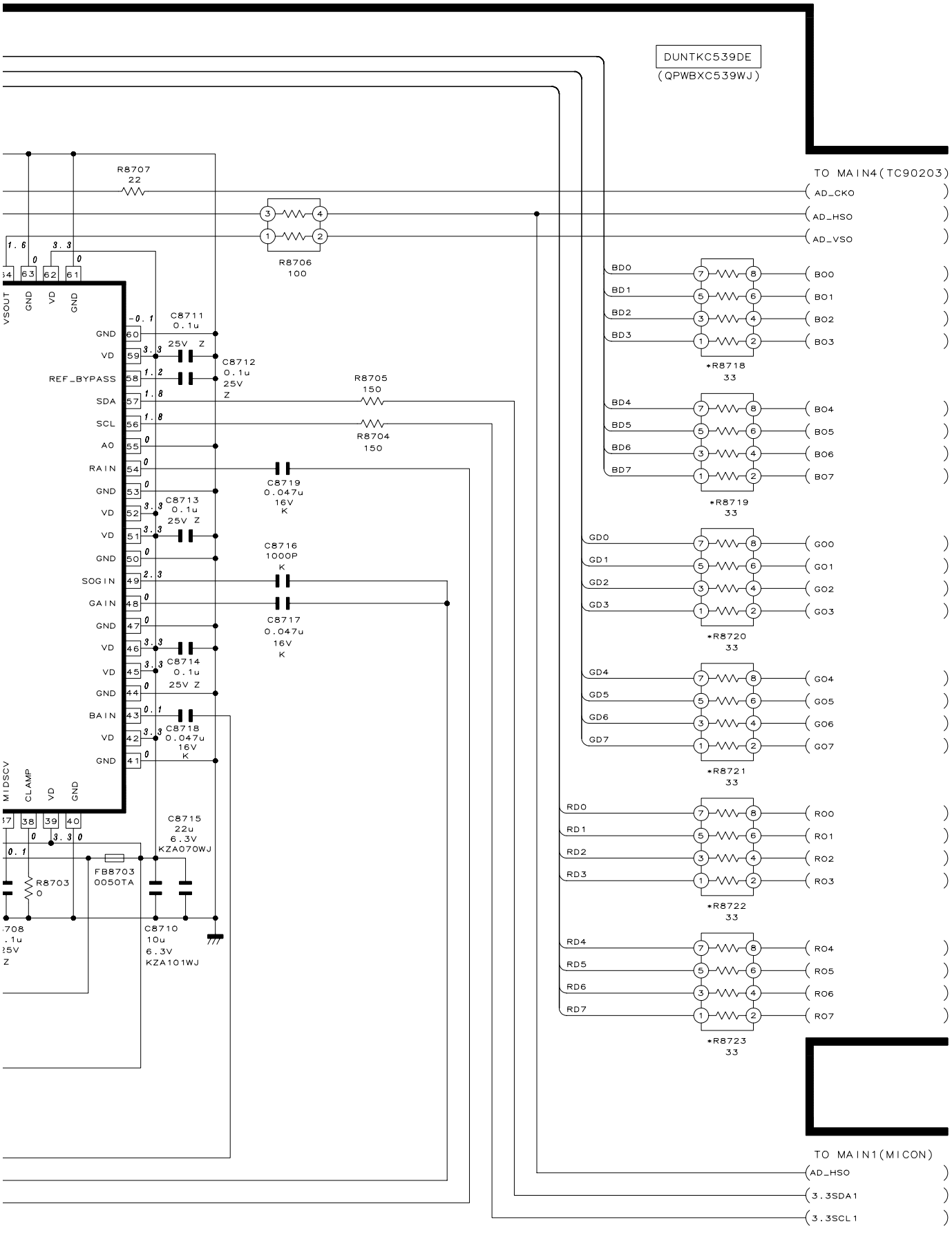


10	11	12	13	14	15	16	17	18	19

■MAIN Unit-3/9

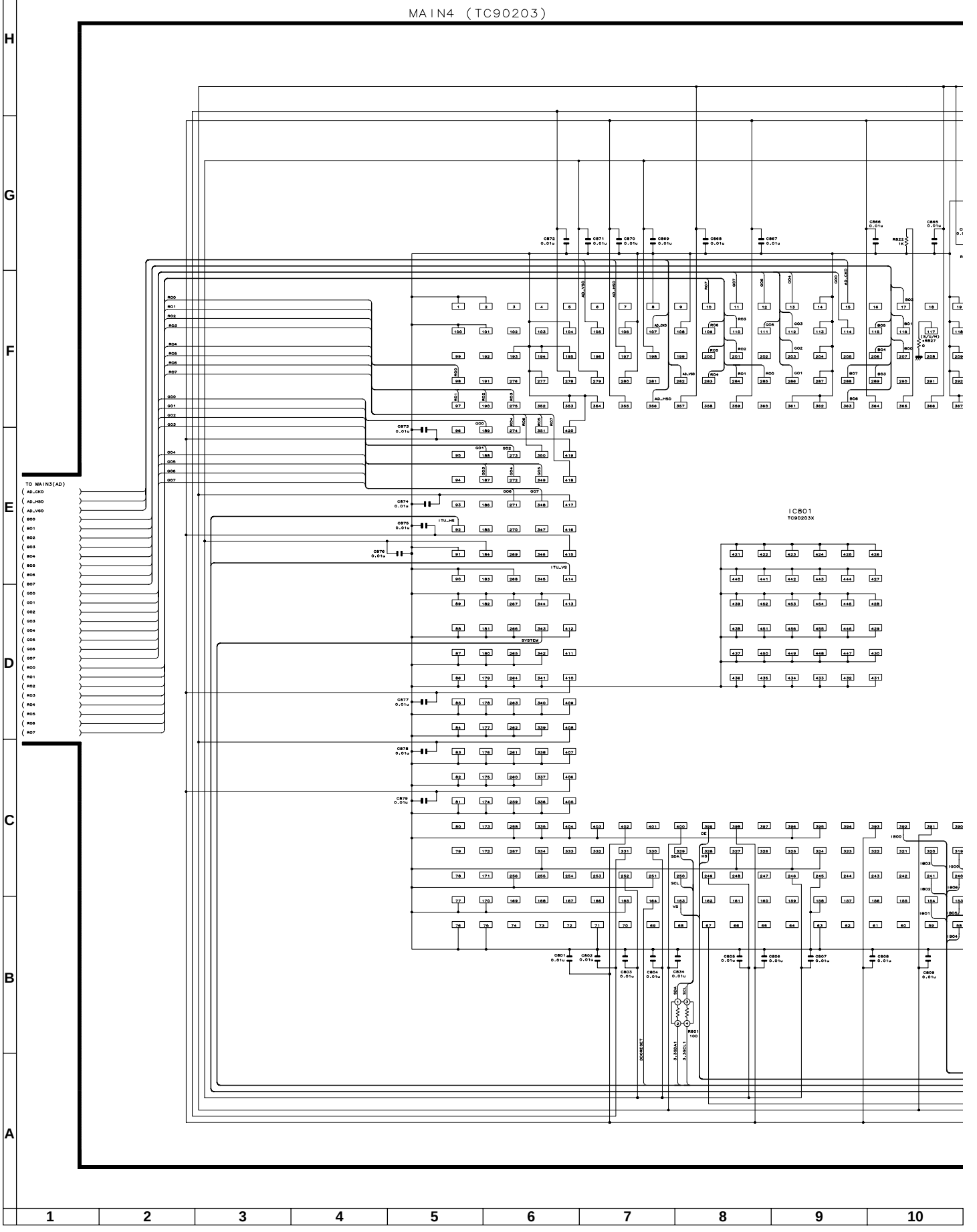
MAIN3 (AD)

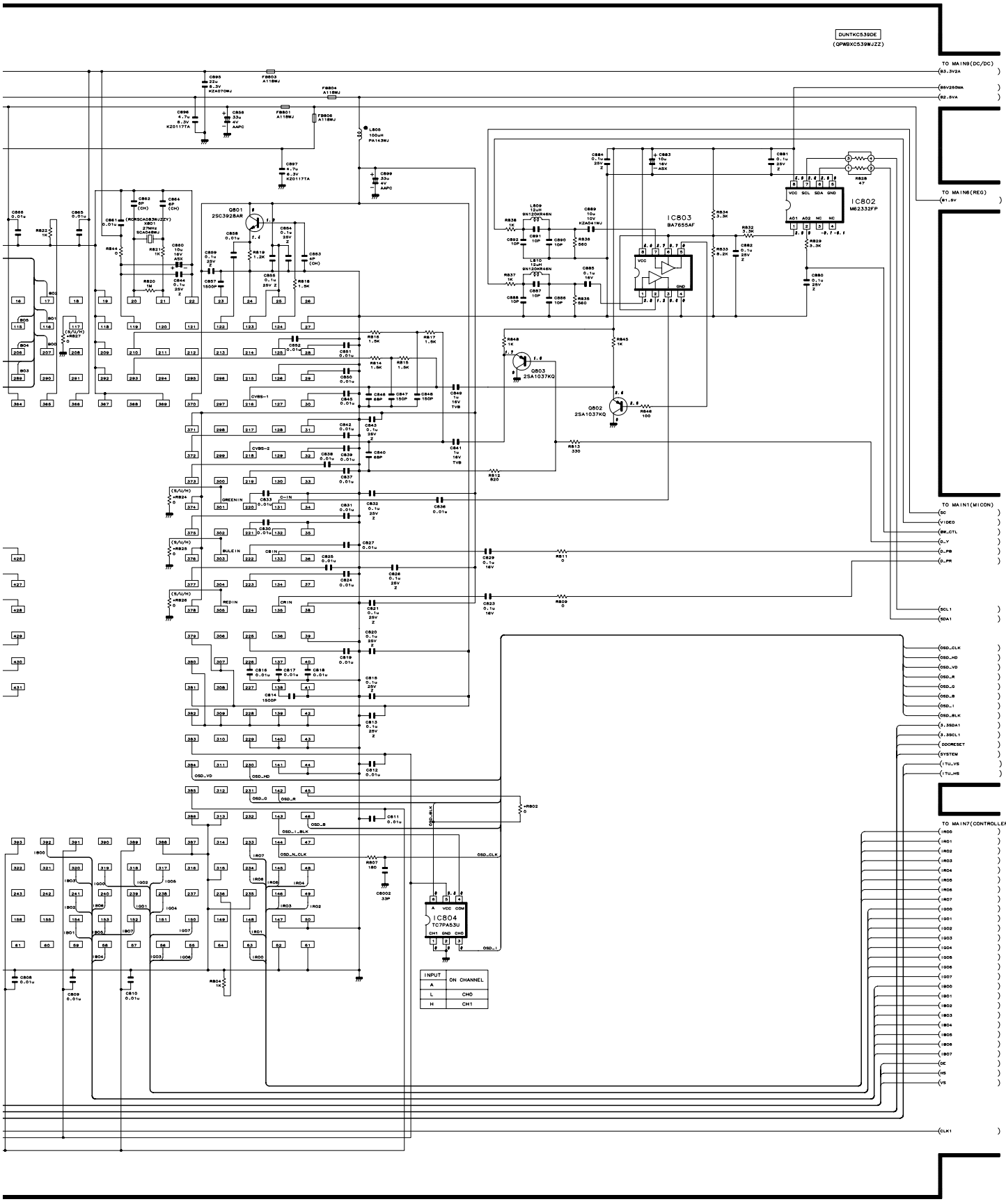




10	11	12	13	14	15	16	17	18	19

■MAIN Unit-4/9

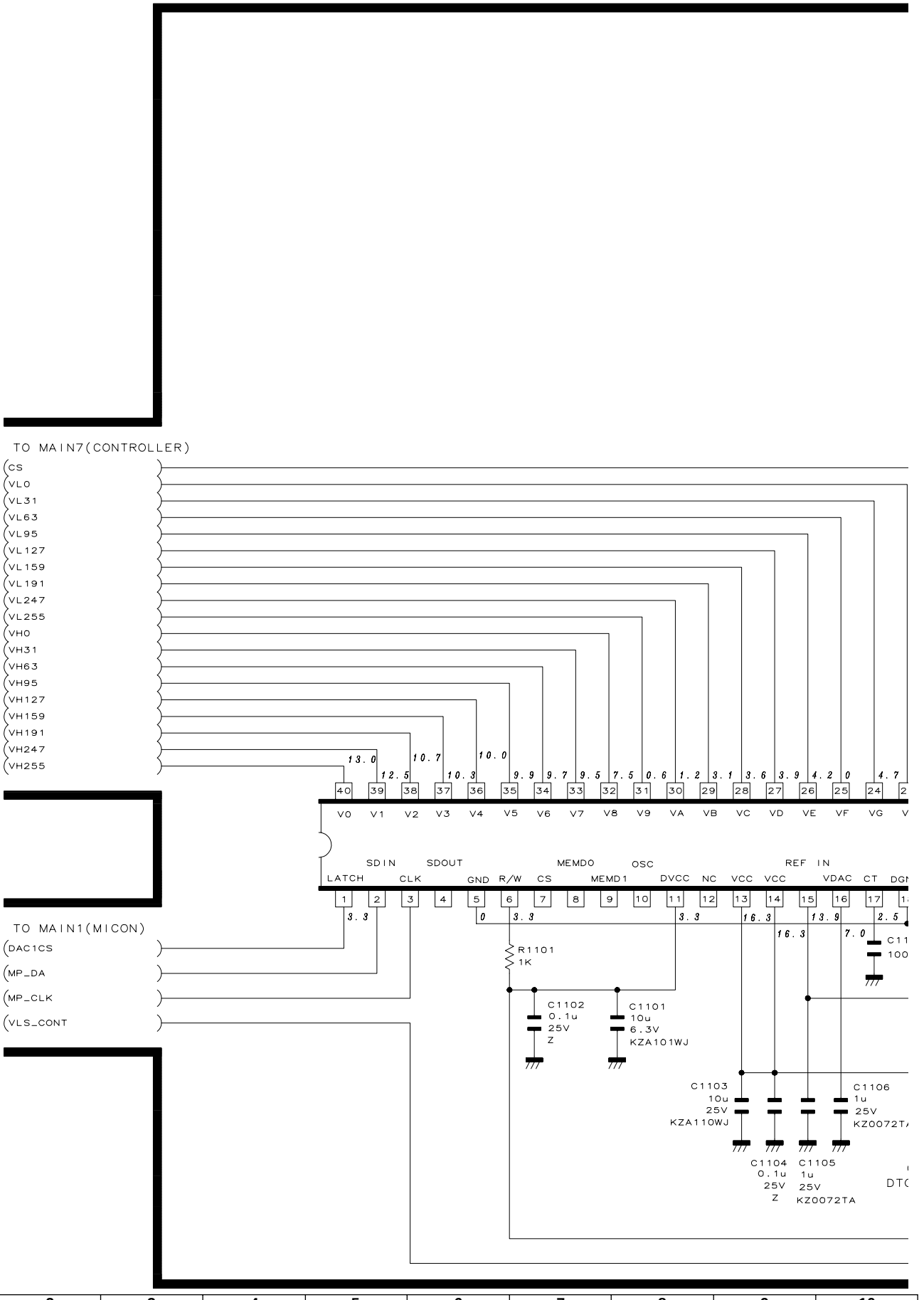

MAIN4 (TC90203)
TO MAIN3(AD)
AD_CKO
AD_HSO
AD_VSO
IC801
TC90203X
ITU_HS
ITU_VS
SYSTEM
DE
SDA
SCL
VG
DOORESET
X_XSDA1
X_XSCL1

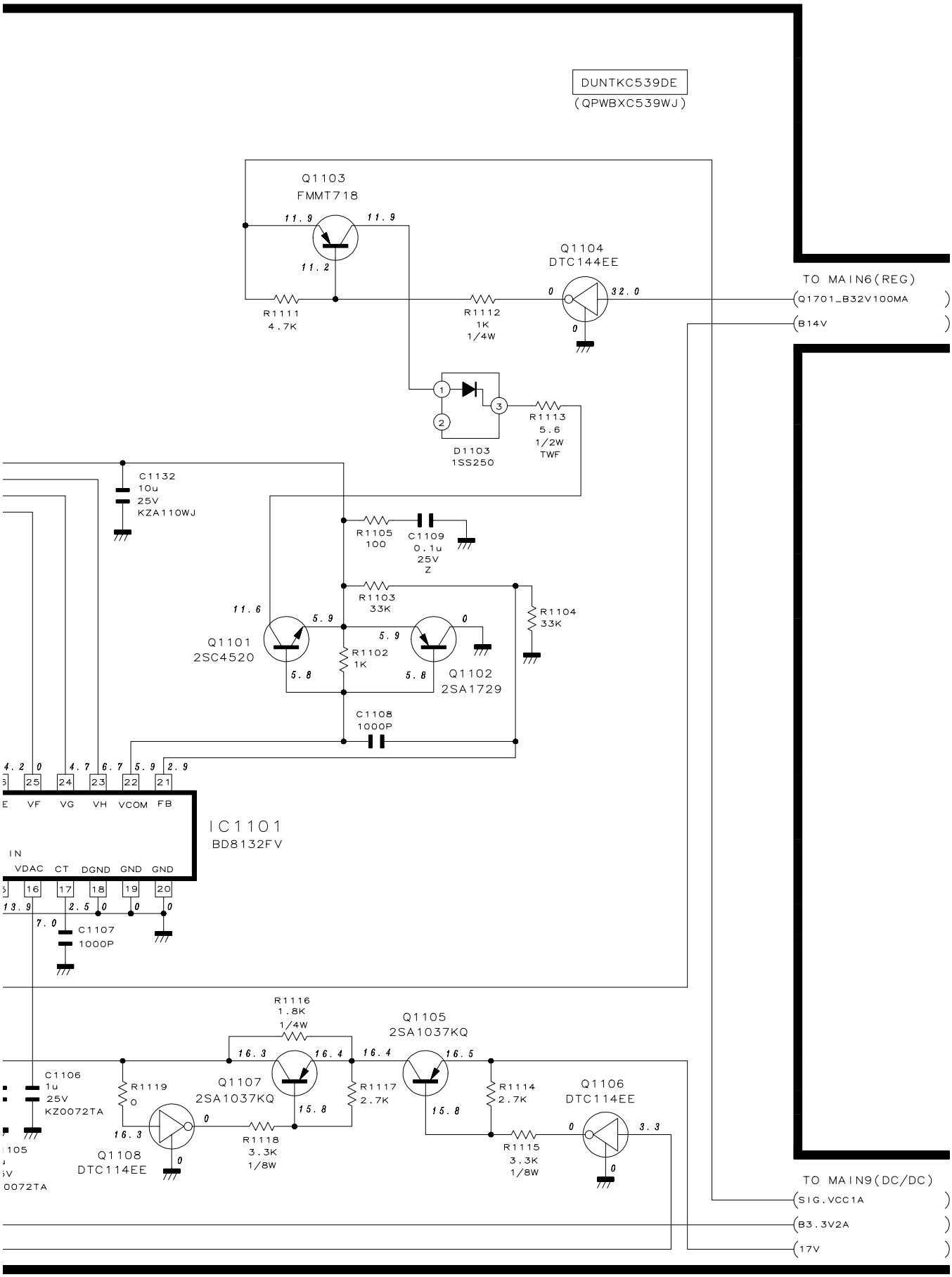


10	11	12	13	14	15	16	17	18	19

■MAIN Unit-5/9

MAIN5 (GRAD)

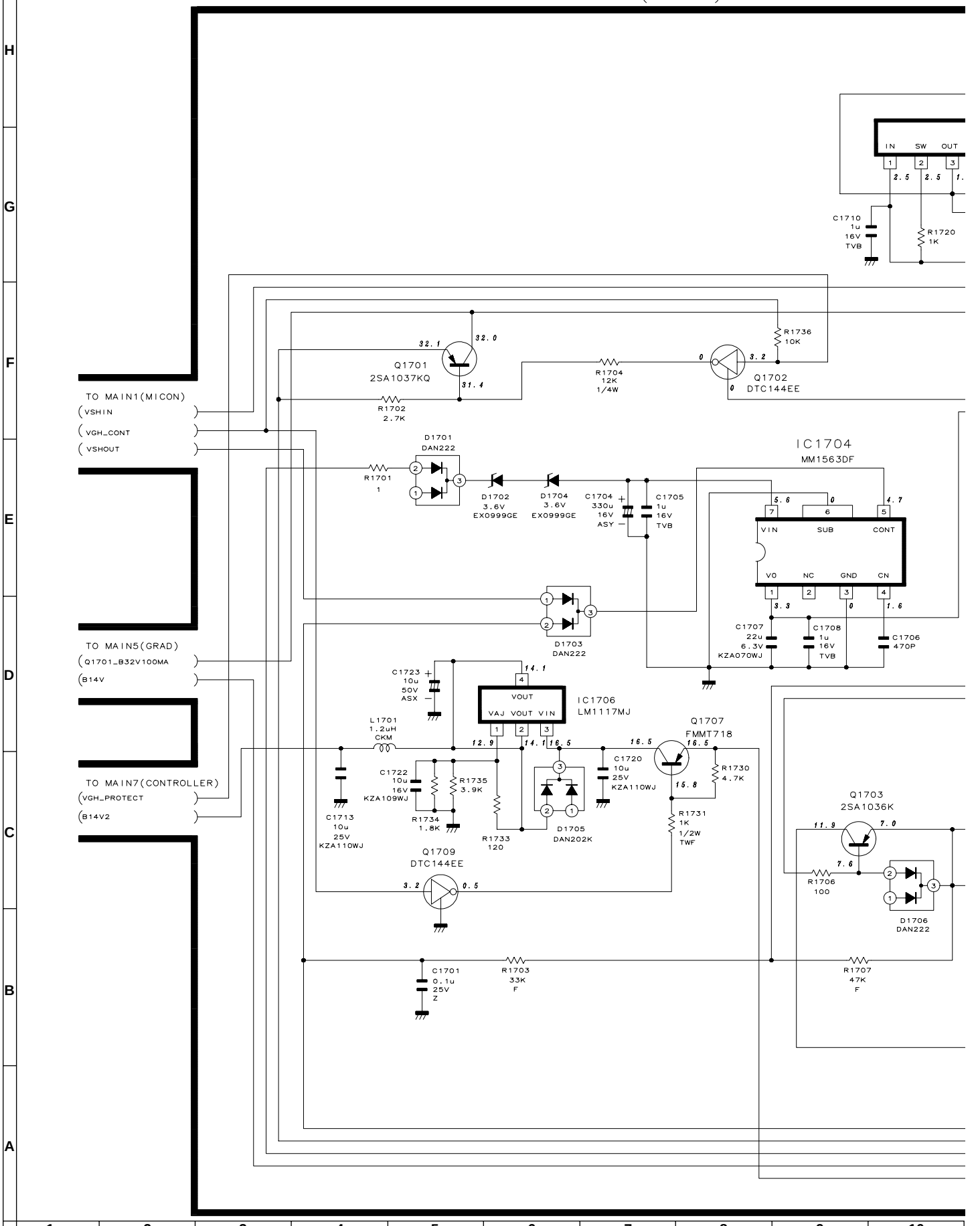


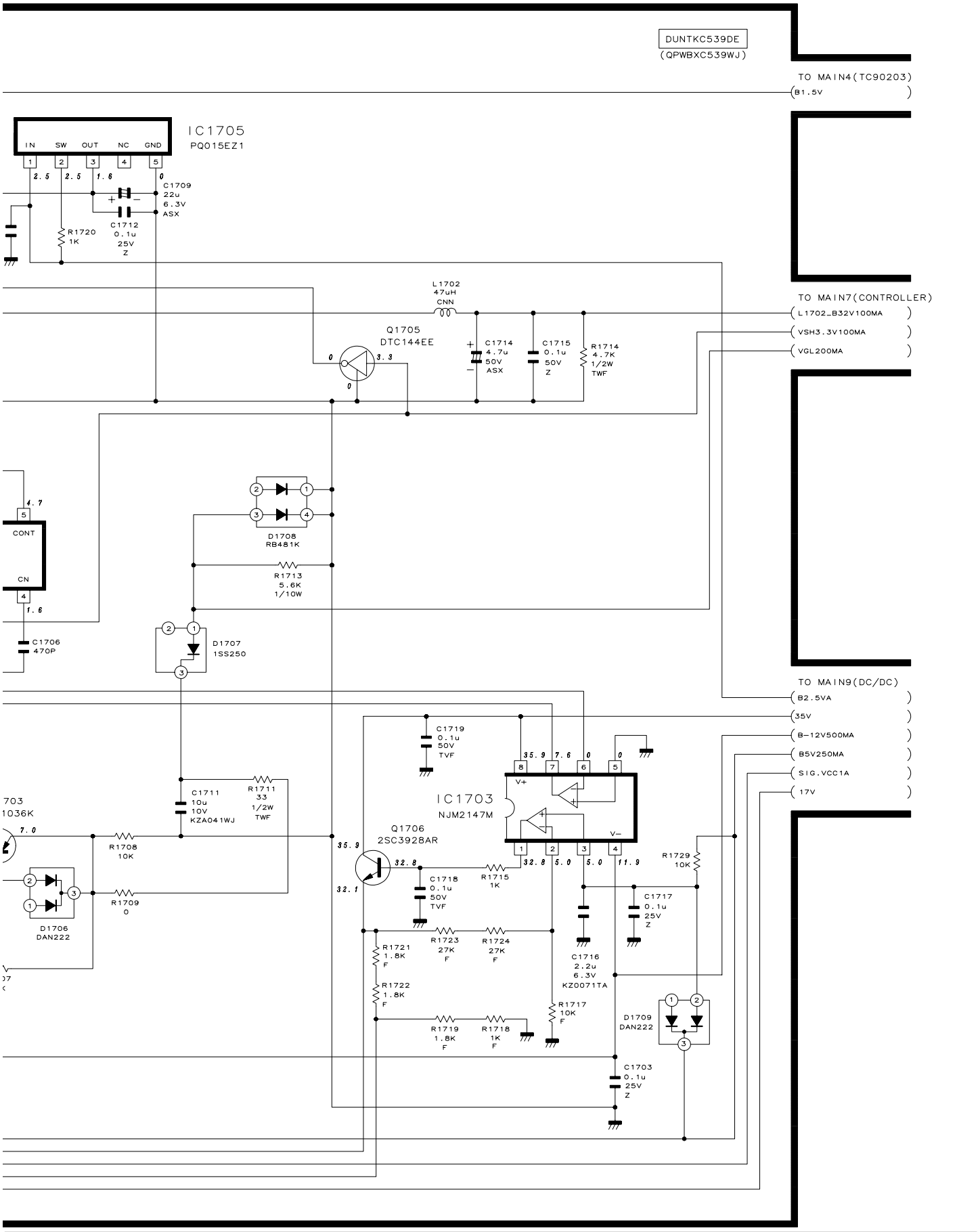


10	11	12	13	14	15	16	17	18	19

■MAIN Unit-6/9

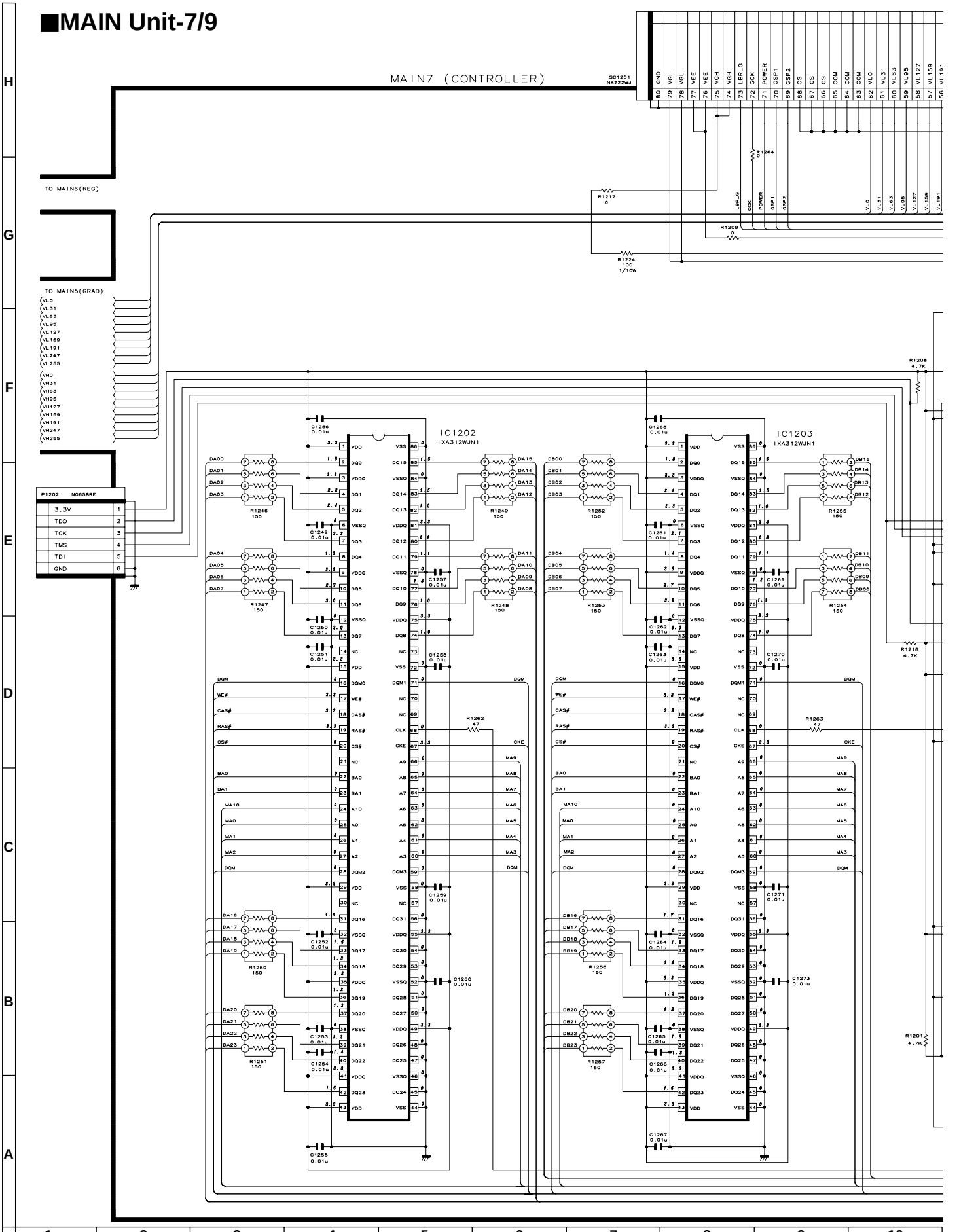
MAIN6 (REG)

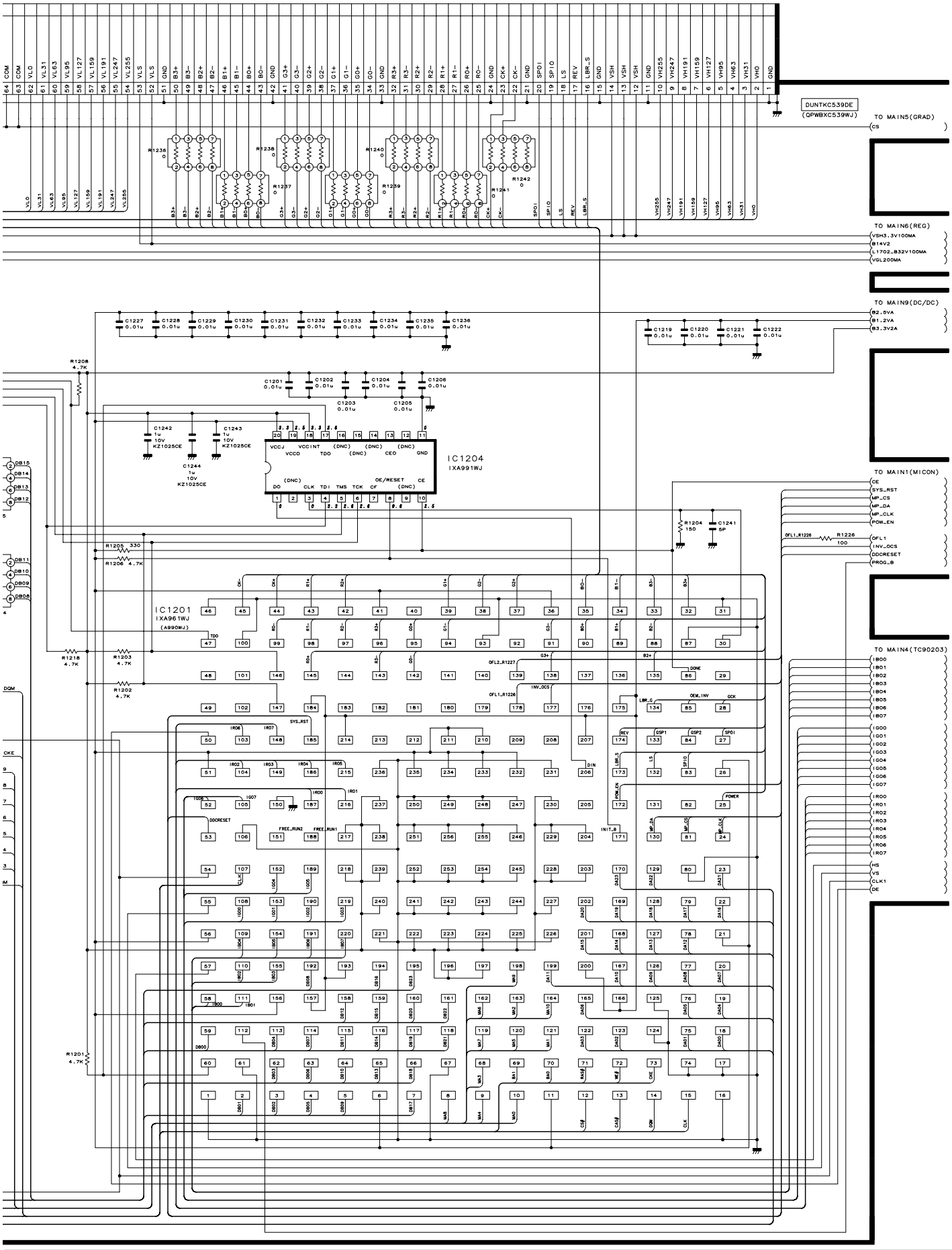




10	11	12	13	14	15	16	17	18	19

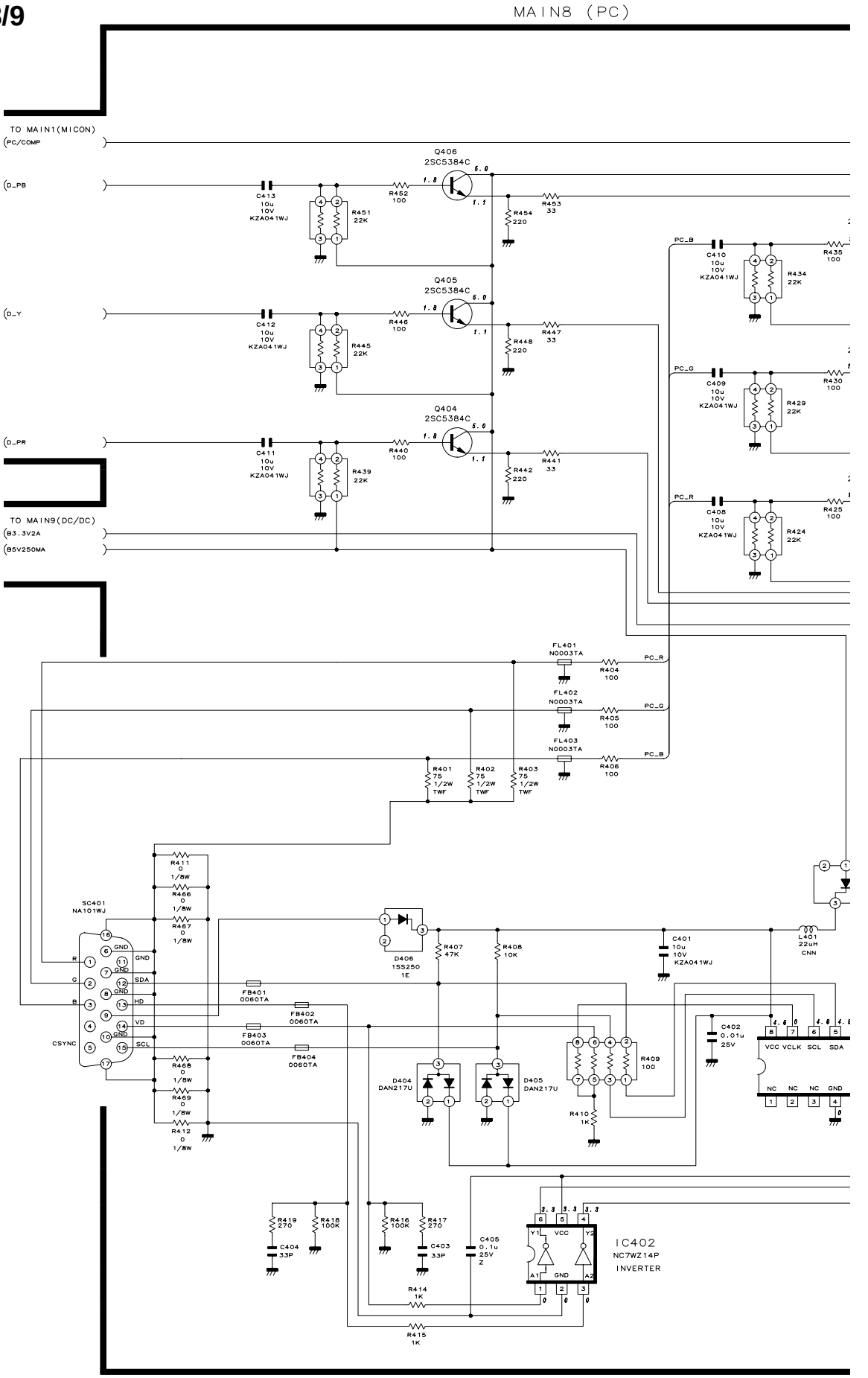
■MAIN Unit-7/9

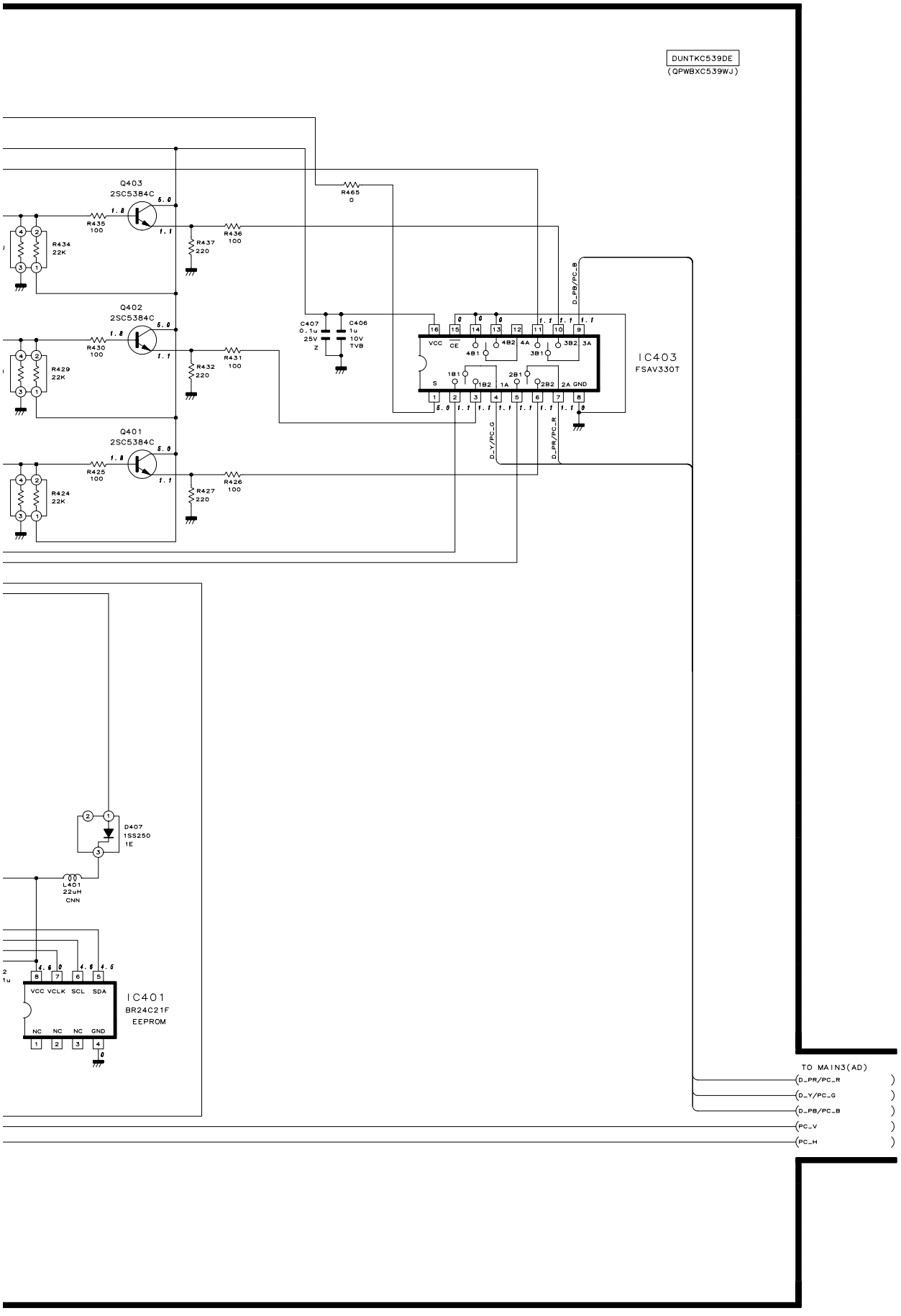

MAIN7 (CONTROLLER)
TO MAIN6(REG)
TO MAIN5(GRAD)
IC1202
IXA312WJN1
IC1203
IXA312WJN1



10	11	12	13	14	15	16	17	18	19

■MAIN Unit-8/9

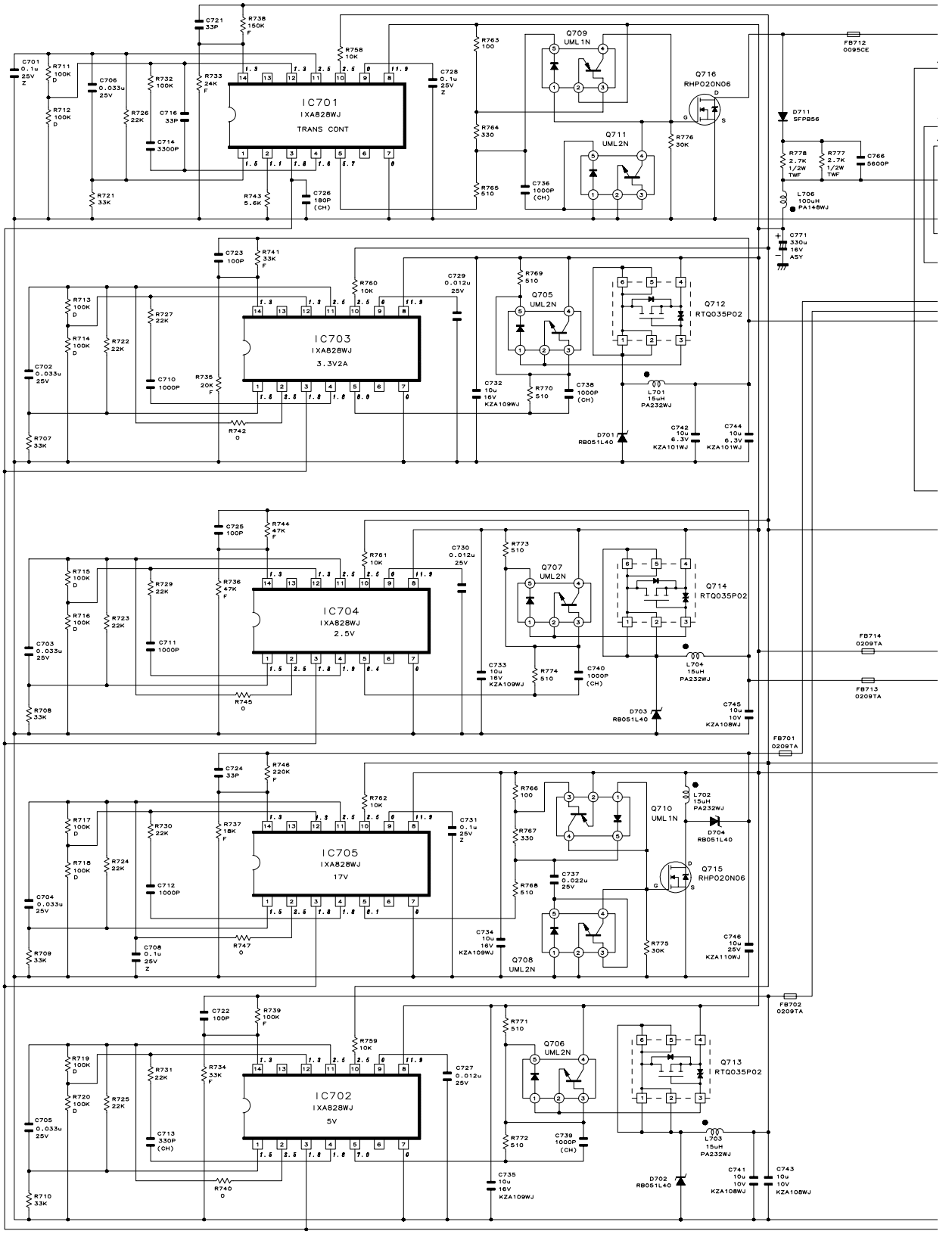

MAIN8 (PC)
TO MAIN1(MICON)
(PC/COMP
(D_PB
(D_Y
(D_PR
Q406
2SC5384C
Q405
2SC5384C
Q404
2SC5384C
C413 10u 10V KZA041WJ
C412 10u 10V KZA041WJ
C411 10u 10V KZA041WJ
R451 22K
R445 22K
R439 22K
R452 100
R446 100
R440 100
R454 220
R448 220
R442 220
R453 33
R447 33
R441 33
PC_B
PC_G
PC_R
C410 10u 10V KZA041WJ
C409 10u 10V KZA041WJ
C408 10u 10V KZA041WJ
R434 22K
R429 22K
R424 22K
R435 100
R430 100
R425 100
TO MAIN9(DC/DC)
(B3.3V2A
(B5V250MA
FL401 N0003TA
FL402 N0003TA
FL403 N0003TA
R404 100
R405 100
R406 100
R401 75 1/2W TWF
R402 75 1/2W TWF
R403 75 1/2W TWF
SC401 NA101WJ
R411 0 1/8W
R466 0 1/8W
R457 0 1/8W
R468 0 1/8W
R469 0 1/8W
R412 0 1/8W
FB401 0060TA
FB402 0060TA
FB403 0060TA
FB404 0060TA
D406 1SS250 1E
R407 47K
R408 10K
C401 10u 10V KZA041WJ
L401 22uH CNN
D404 DAN217U
D405 DAN217U
R409 100
R410 1K
C402 0.01u 25V
VCC VCLK SCL SDA
NC NC NC GND
R419 270
R418 100K
C404 33P
R416 100K
R417 270
C403 33P
C405 0.1u 25V Z
R414 1K
R415 1K
IC402
NC7WZ14P
INVERTER
VCC
GND

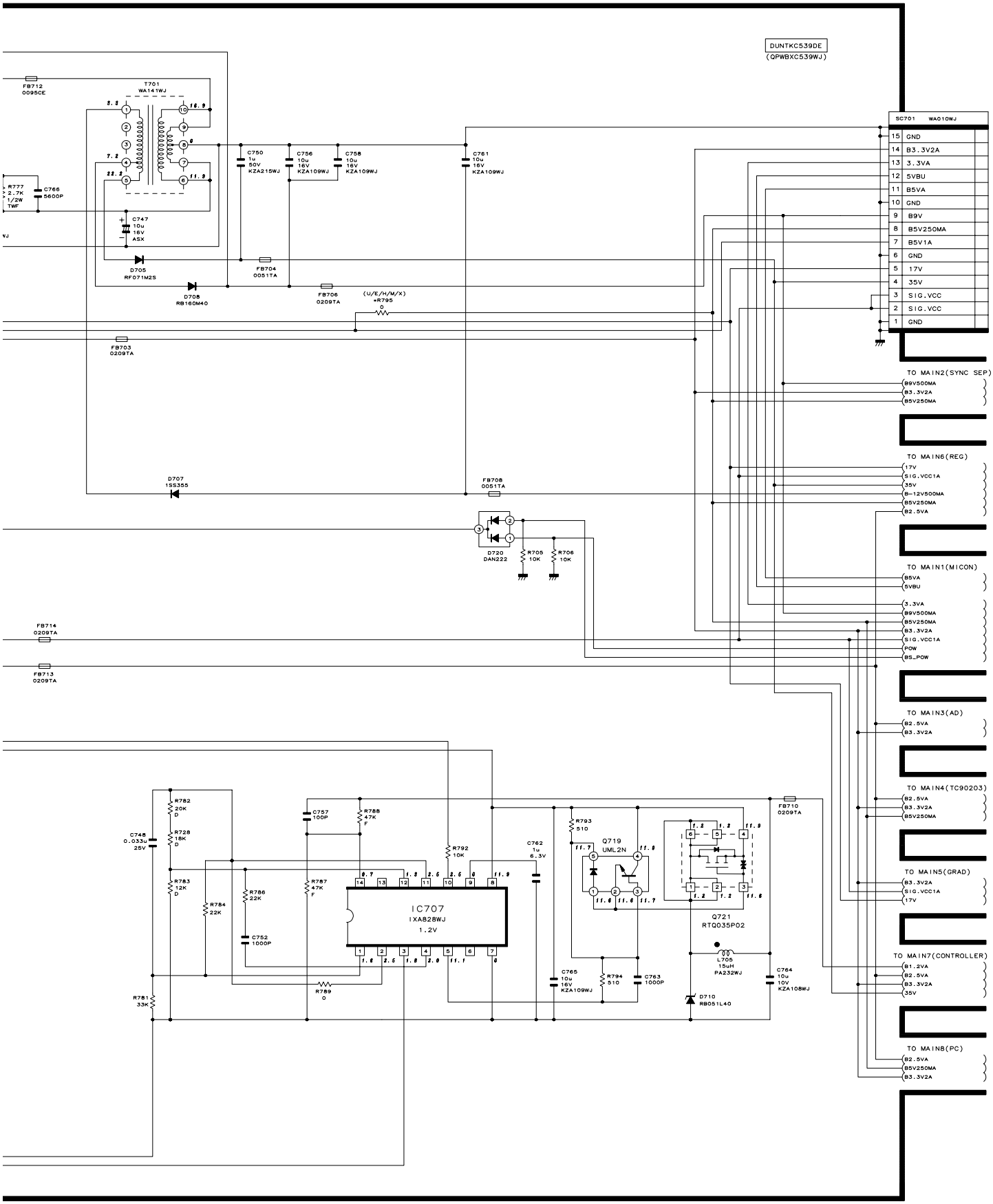


10	11	12	13	14	15	16	17	18	19

■MAIN Unit-9/9

MAIN9 (DC/DC CONVERTER)

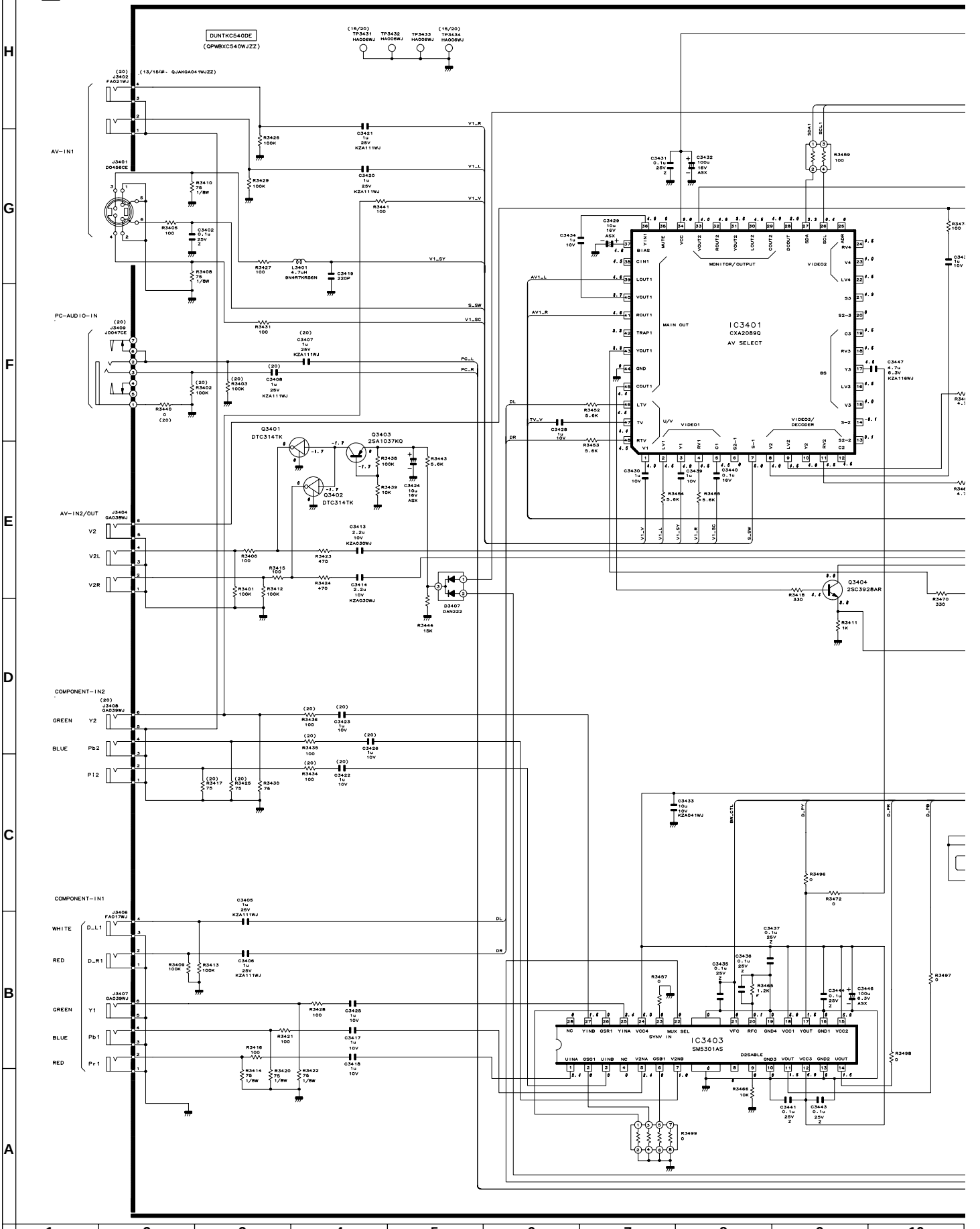


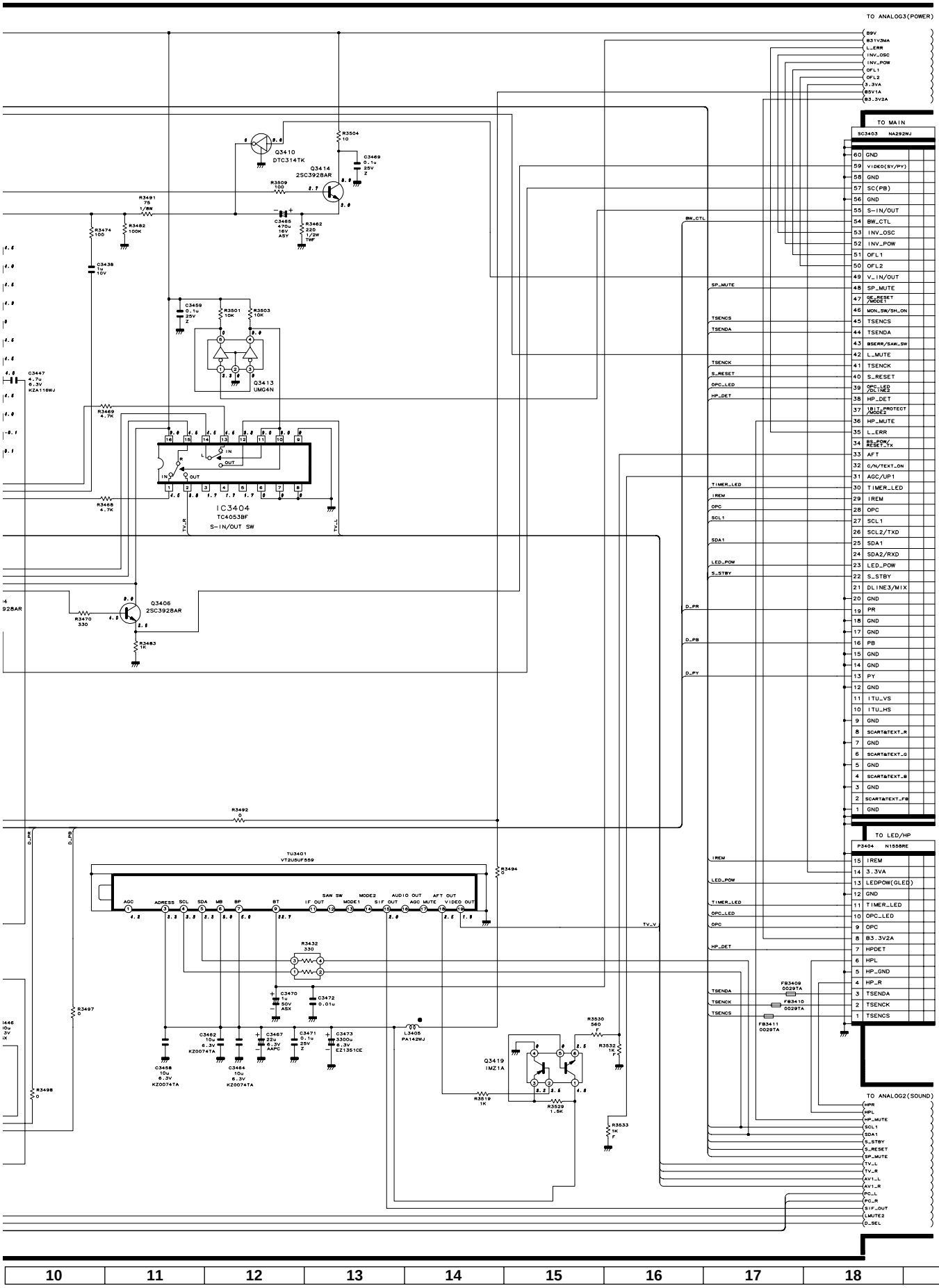


10	11	12	13	14	15	16	17	18	19

■ANALOG Unit-1/3

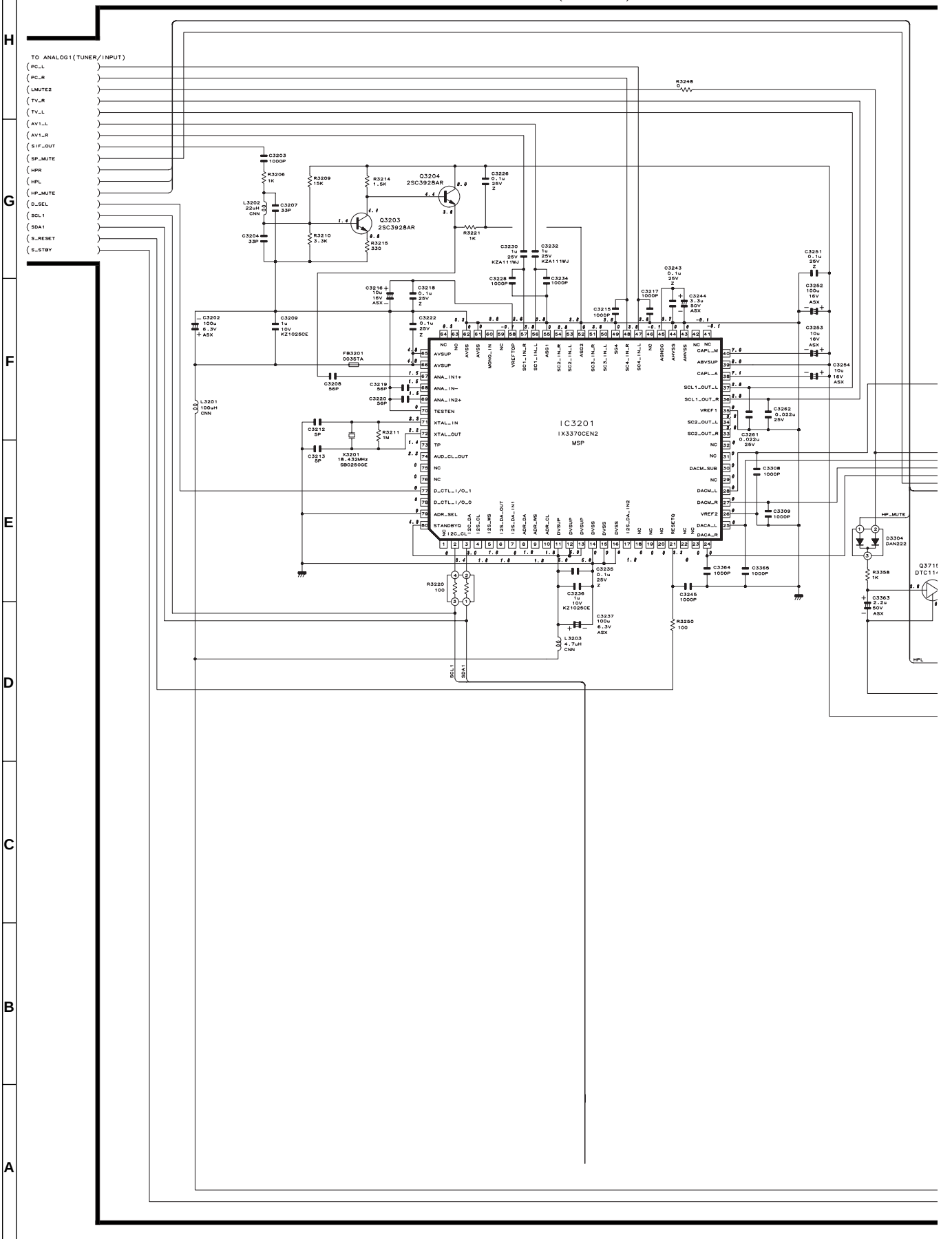
ANALOG1 (TUNER/INPUT)

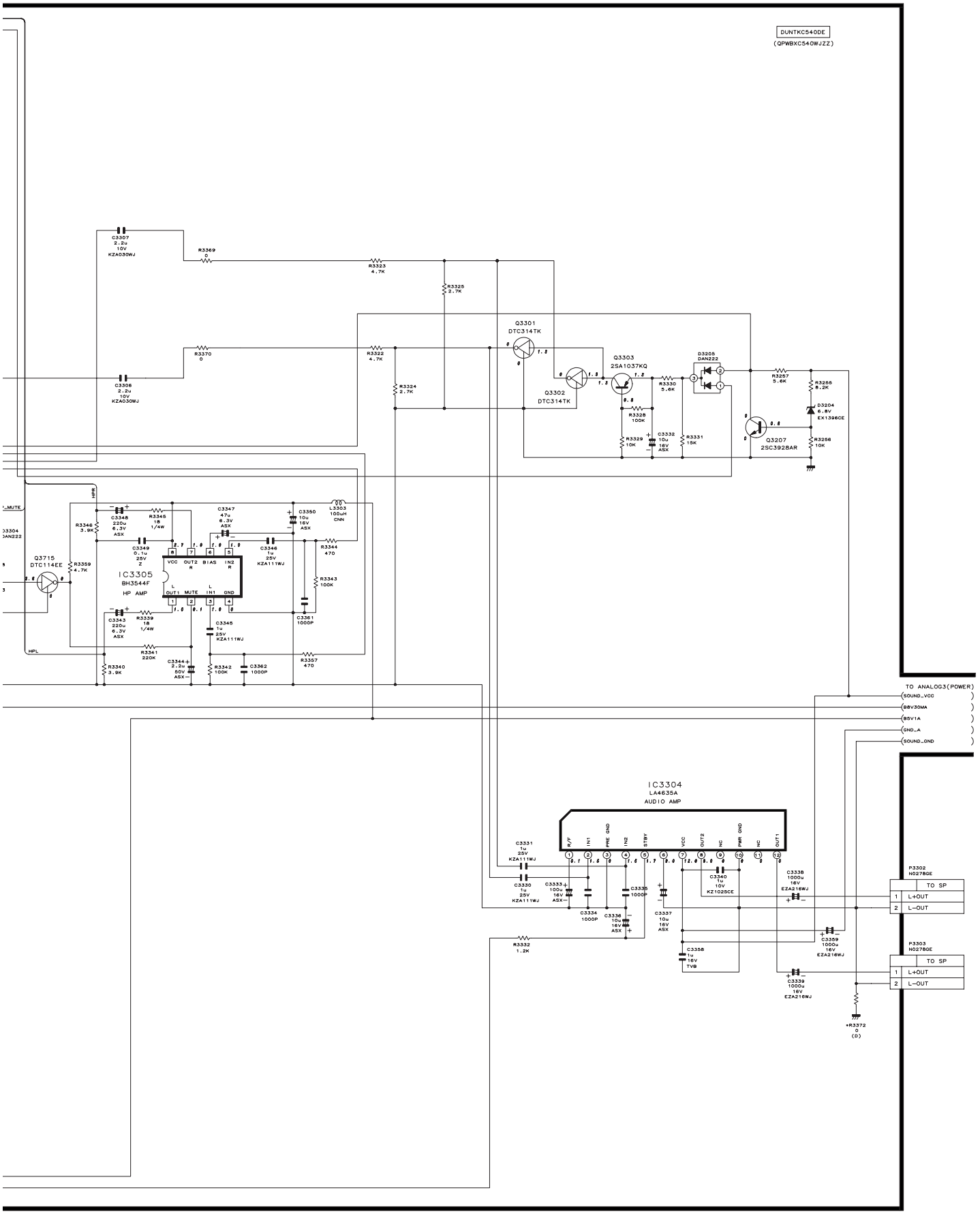




10	11	12	13	14	15	16	17	18	19

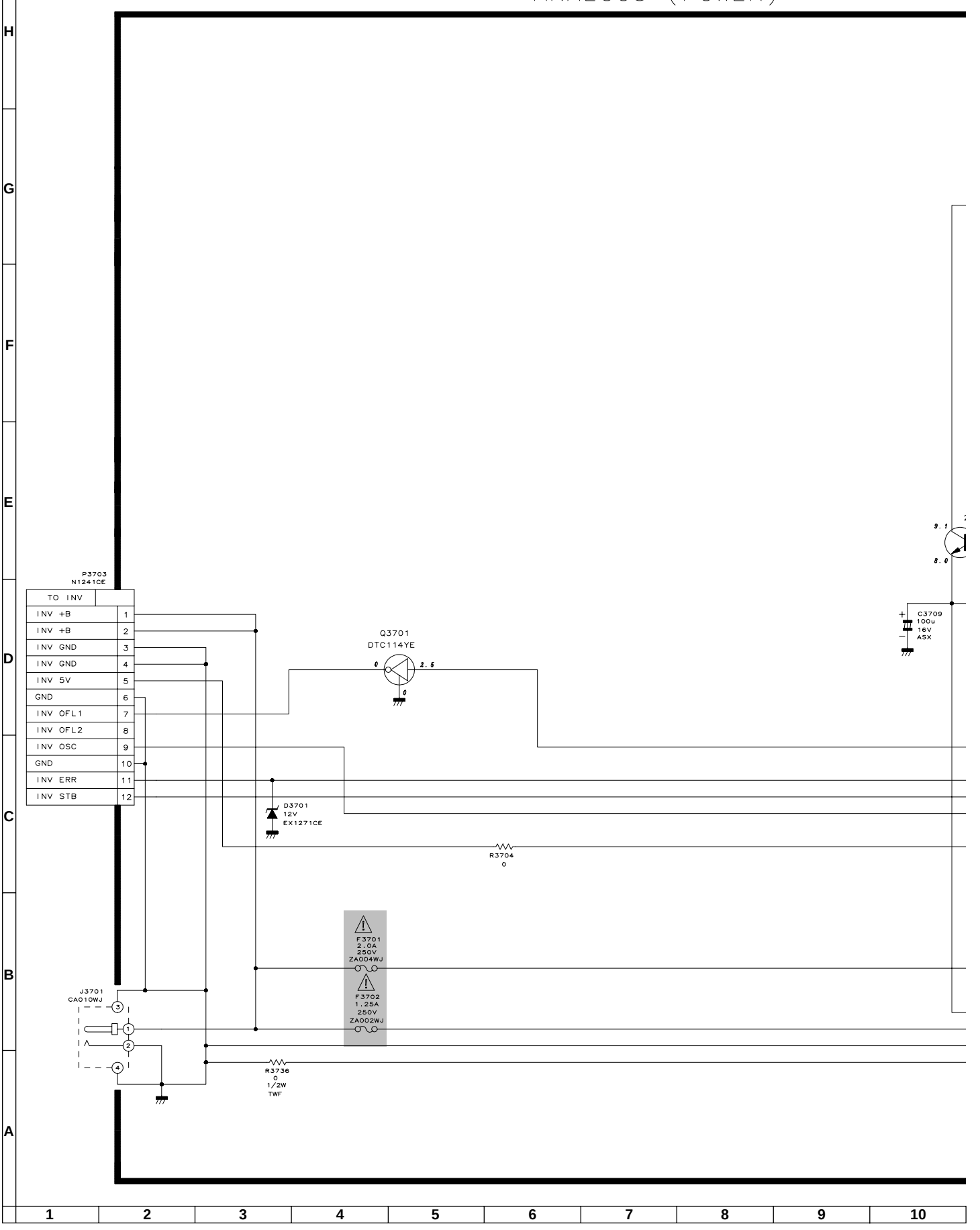
■ANALOG Unit-2/3

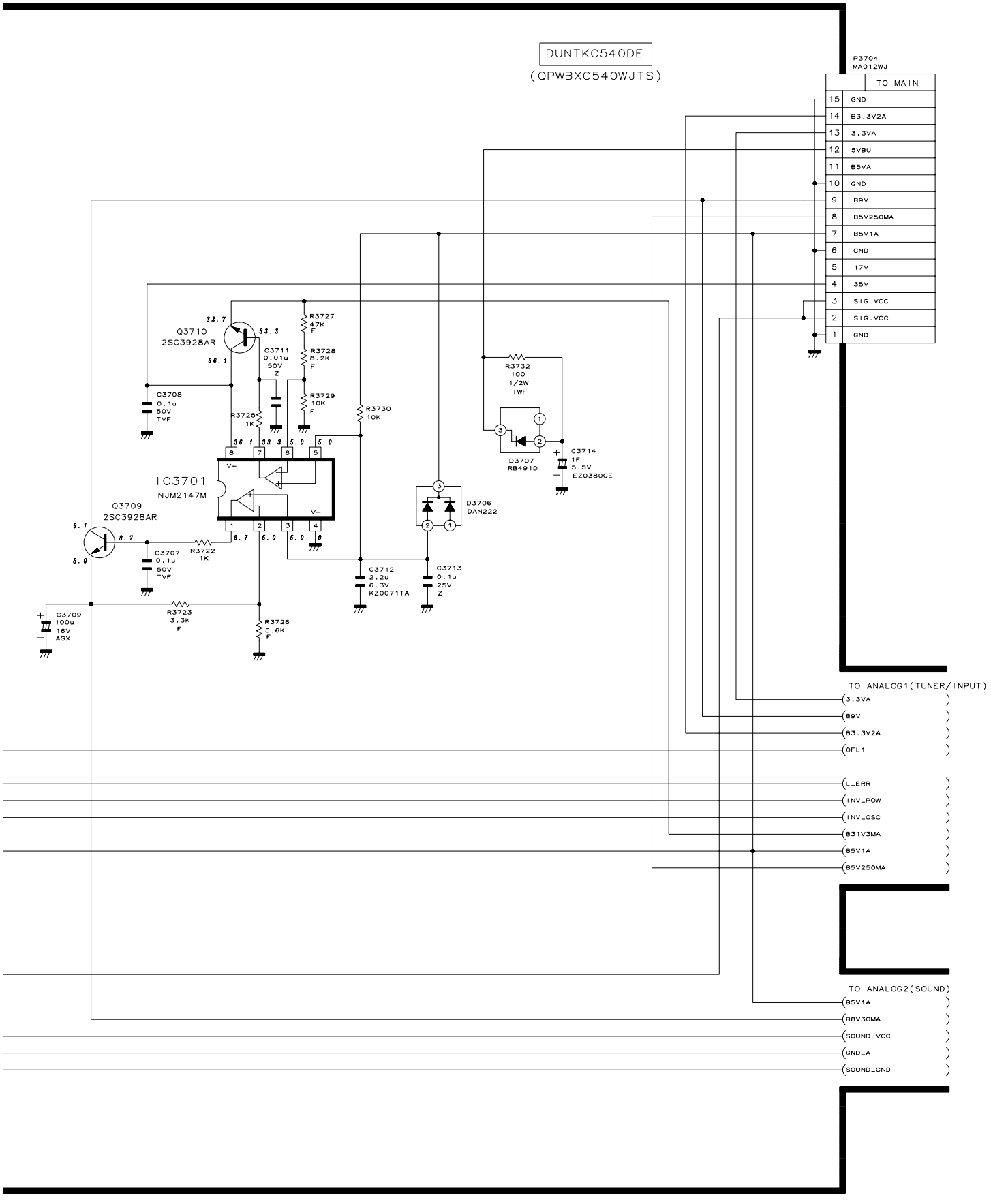




10	11	12	13	14	15	16	17	18	19

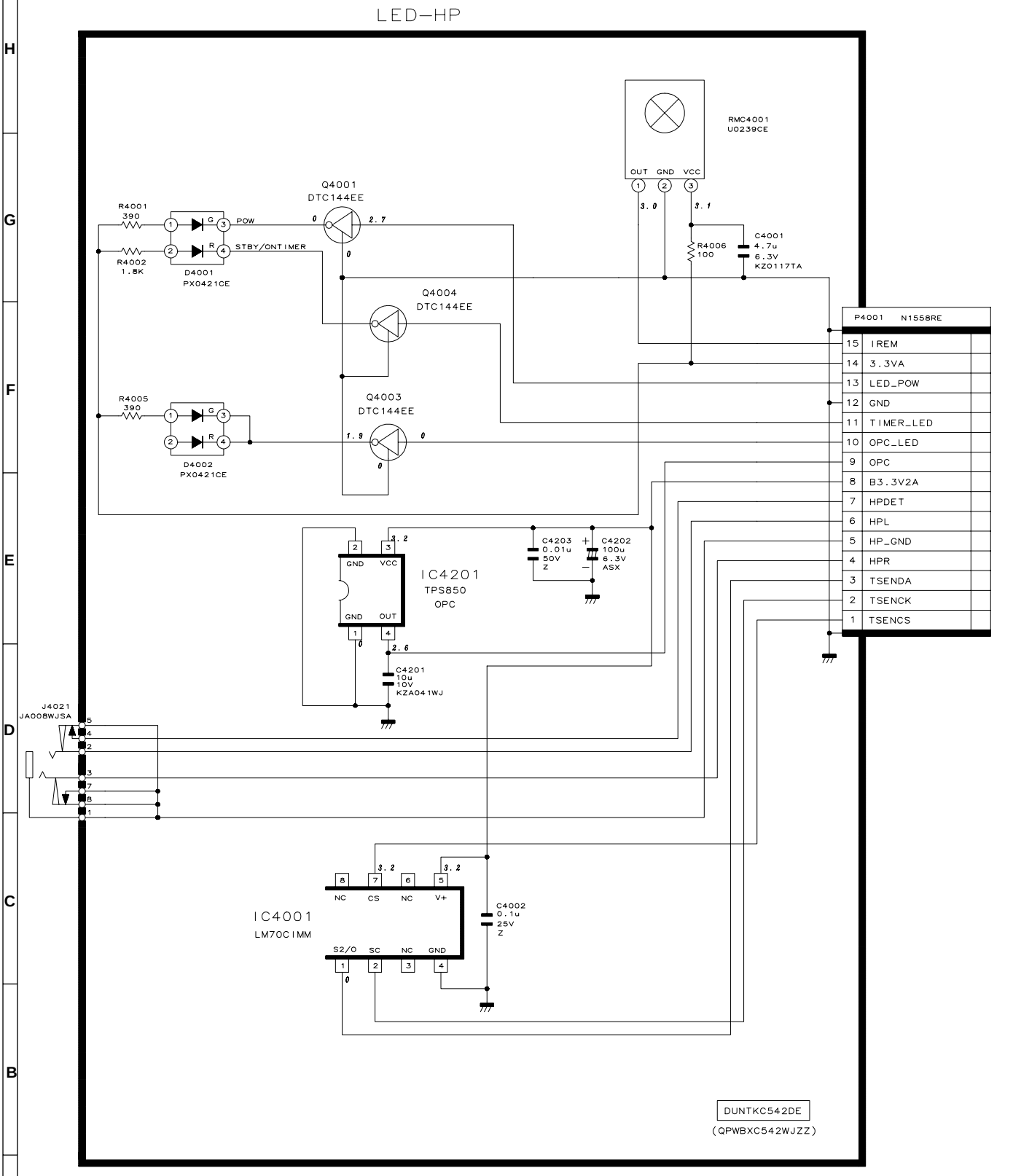
■ANALOG Unit-3/3



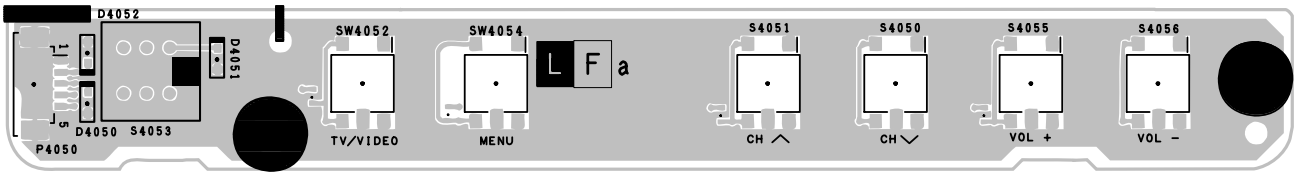


10	11	12	13	14	15	16	17	18	19

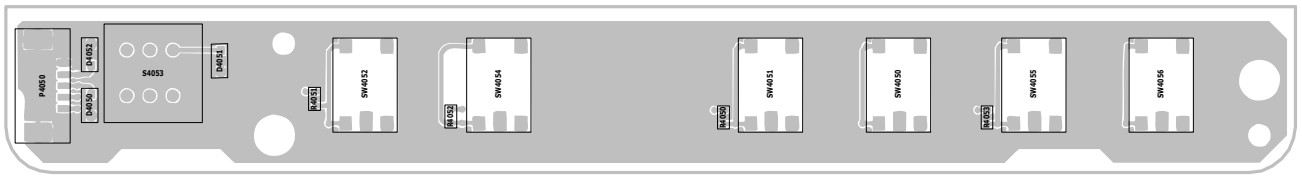
■R/C, LED Unit


LED-HP
RMC4001
U0239CE
OUT GND VCC
Q4001
DTC144EE
R4001
390
R4002
1.8K
D4001
PX0421CE
POW
STBY/ONTIMER
R4006
100
C4001
4.7u
6.3V
KZ0117TA
Q4004
DTC144EE
Q4003
DTC144EE
R4005
390
D4002
PX0421CE
P4001 N1558RE
15 IREM
14 3.3VA
13 LED_POW
12 GND
11 TIMER_LED
10 OPC_LED
9 OPC
8 B3.3V2A
7 HPDET
6 HPL
5 HP_GND
4 HPR
3 TSENDA
2 TSENCK
1 TSENCS
IC4201
TPS850
OPC
GND VCC GND OUT
C4203
0.01u
50V
Z
C4202
100u
6.3V
ASX
C4201
10u
10V
KZA041WJ
J4021
JA008WJSA
IC4001
LM70CIMM
NC CS NC V+
S2/O SC NC GND
C4002
0.1u
25V
Z
DUNTKC542DE
(QPWBXC542WJZZ)

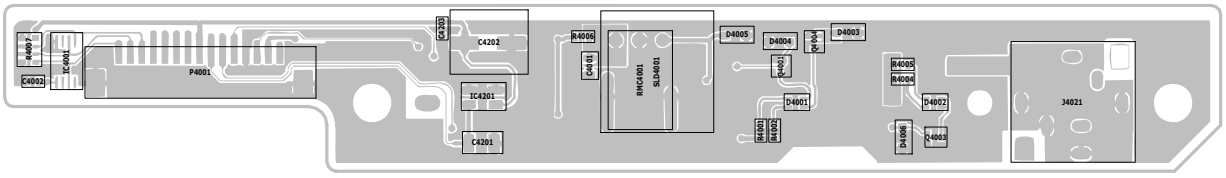
PRINTED WIRING BOARD ASSEMBLIES



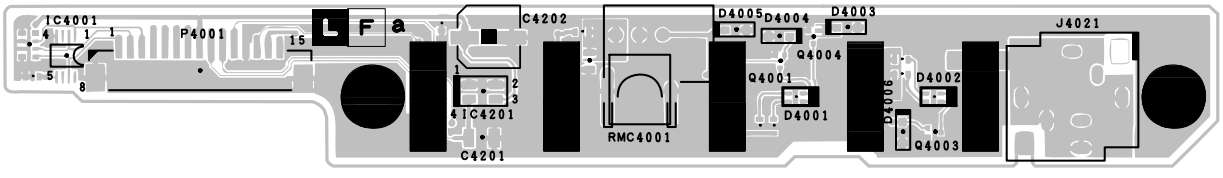
OPERATION Unit (Side-A)
(QPWBXC541WJN1)



OPERATION Unit (Chip Parts Side-A)
(QPWBXC541WJN1)

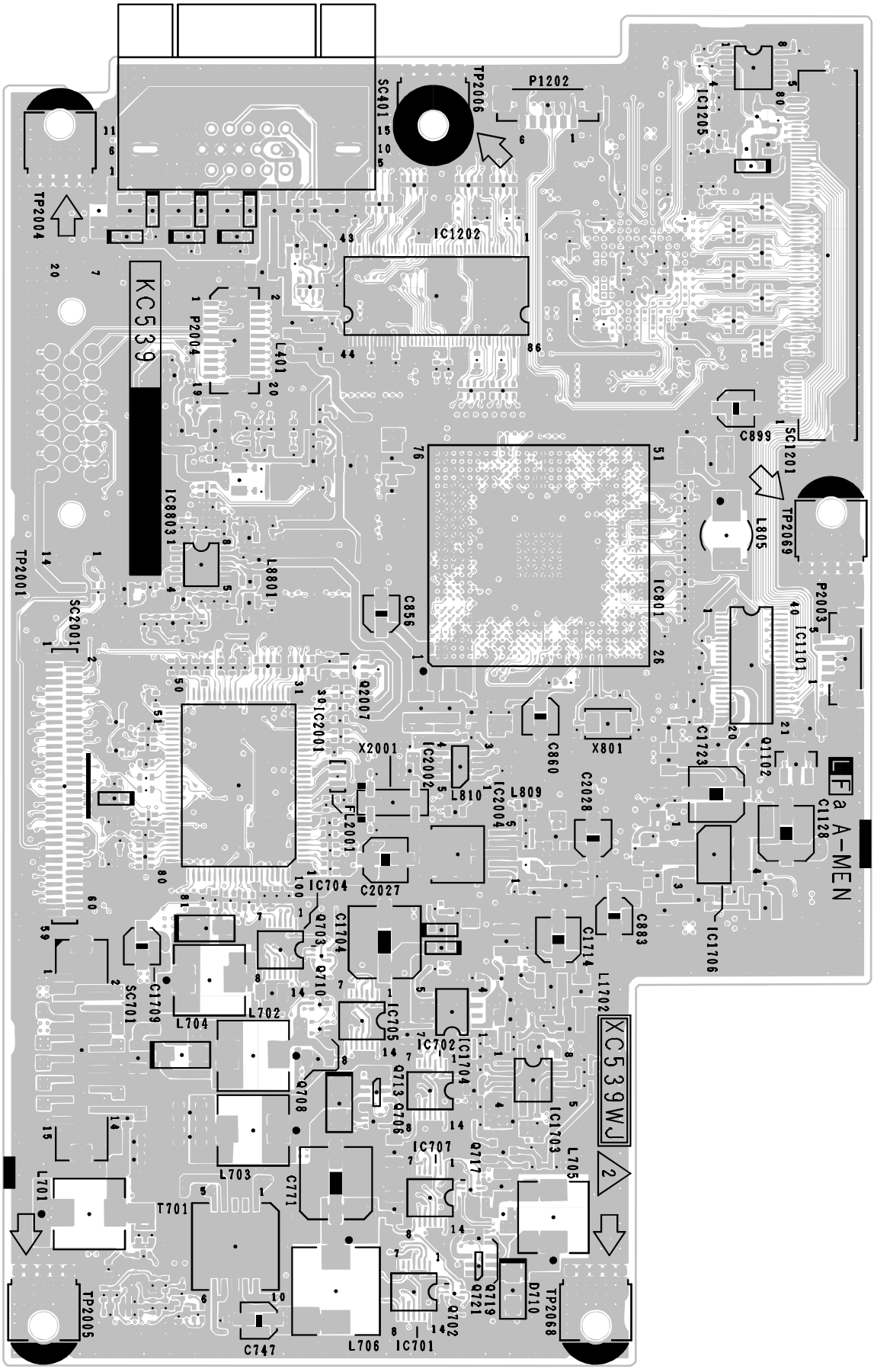


R/C, LED Unit (Side-A)
(QPWBXC542WJN1)

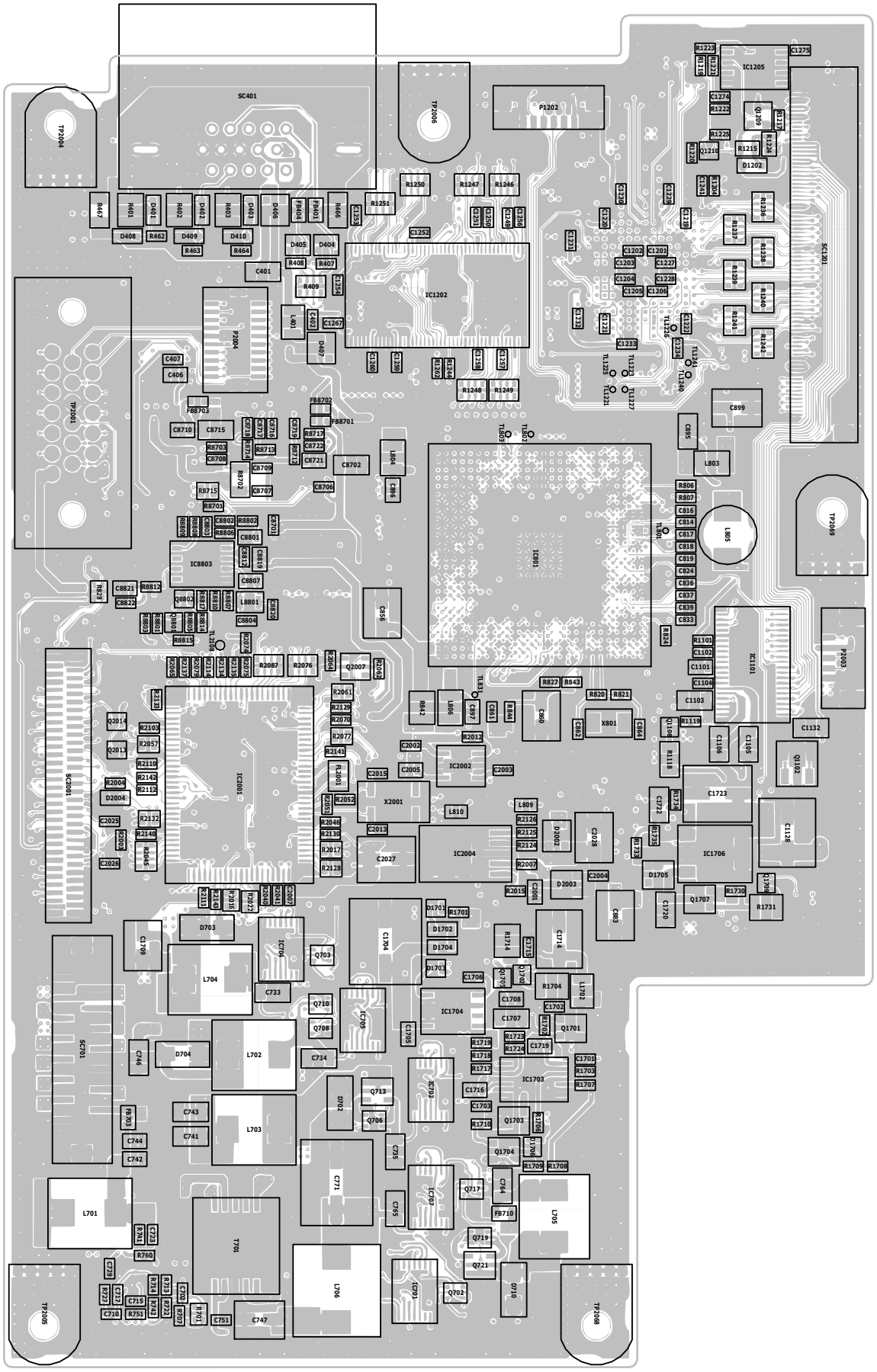


R/C, LED Unit (Chip Parts Side-A)
(QPWBXC542WJN1)

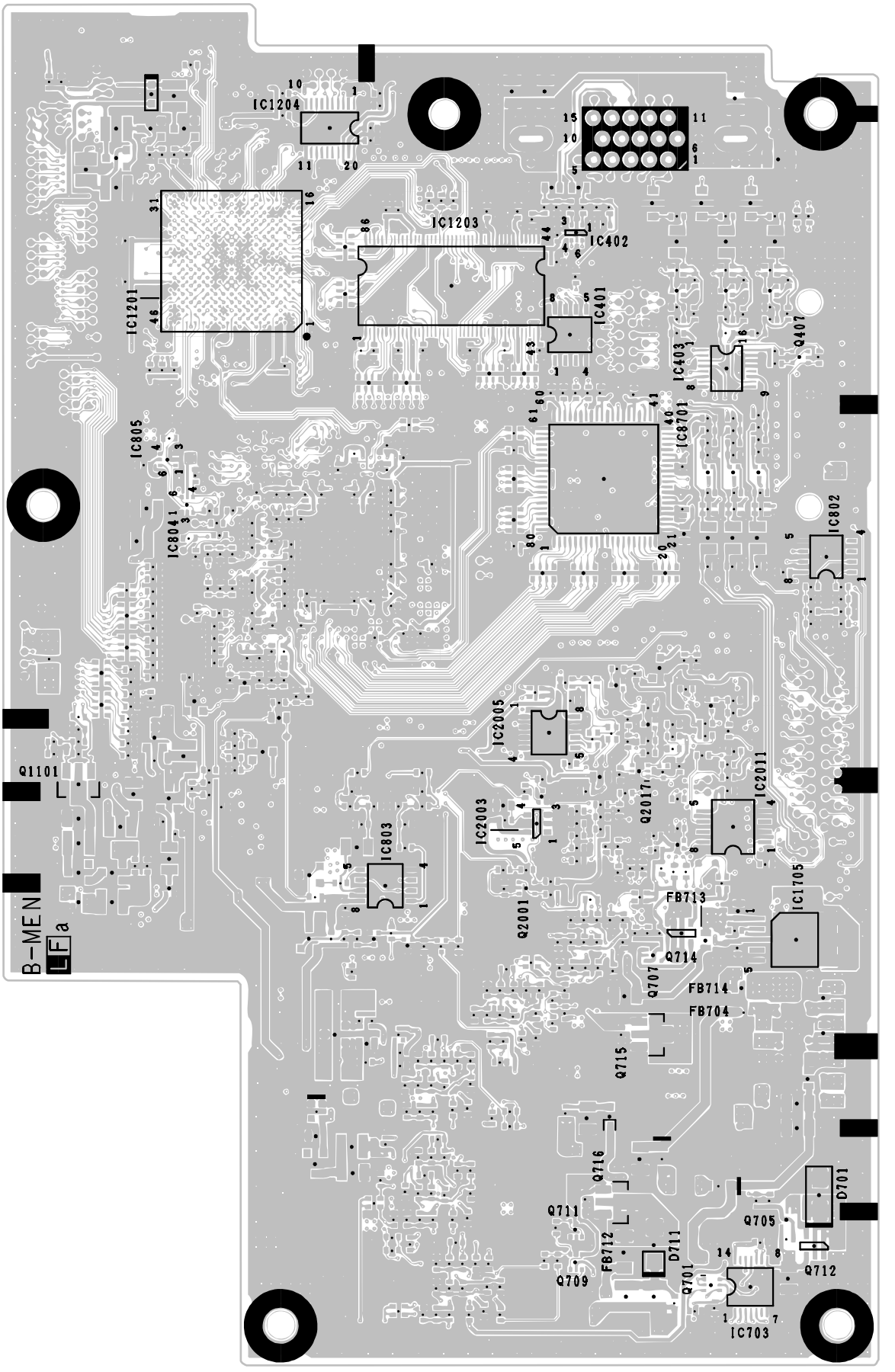
1	2	3	4	5	6



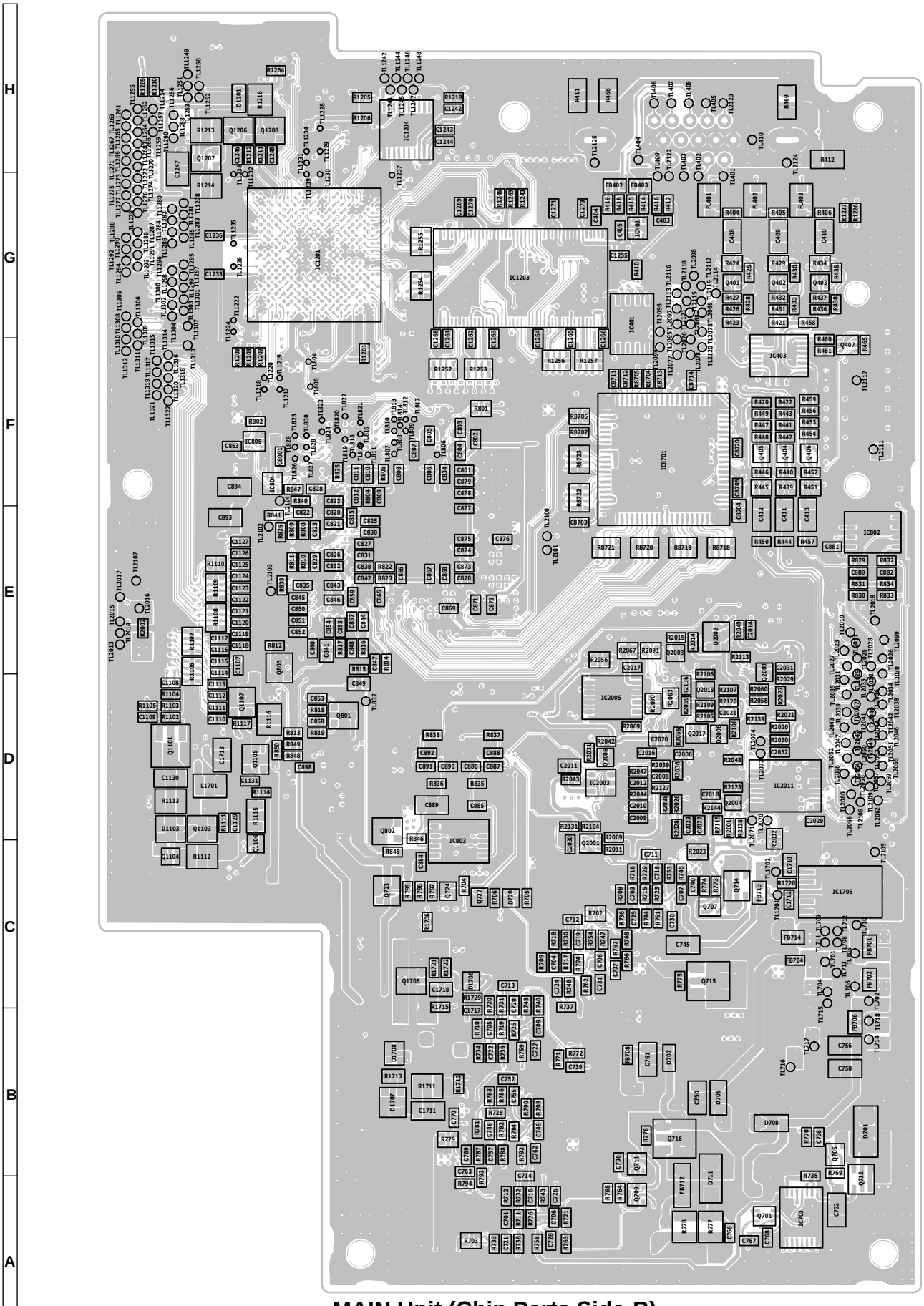
MAIN Unit (Side-A)



MAIN Unit (Chip Parts Side-A)

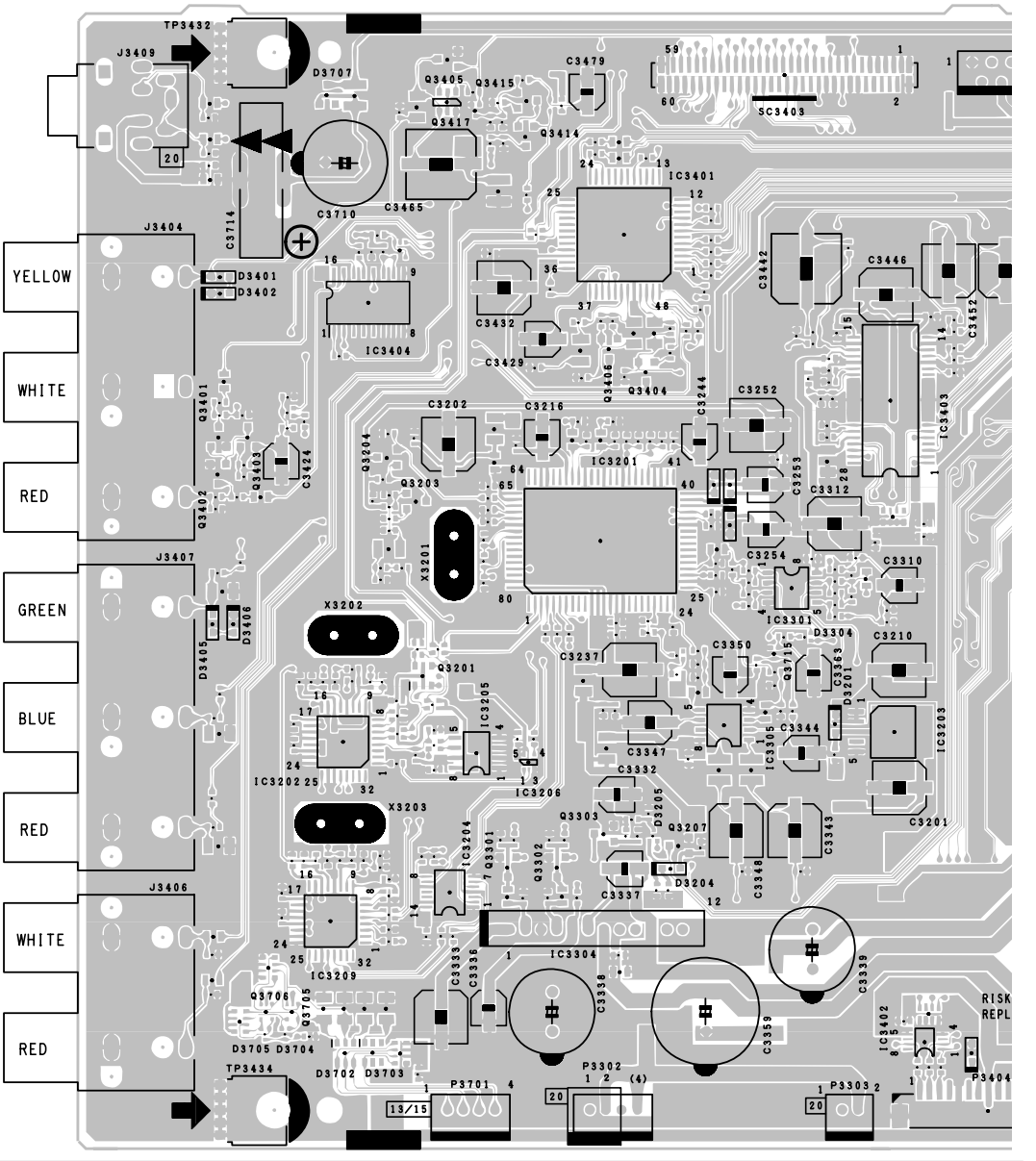


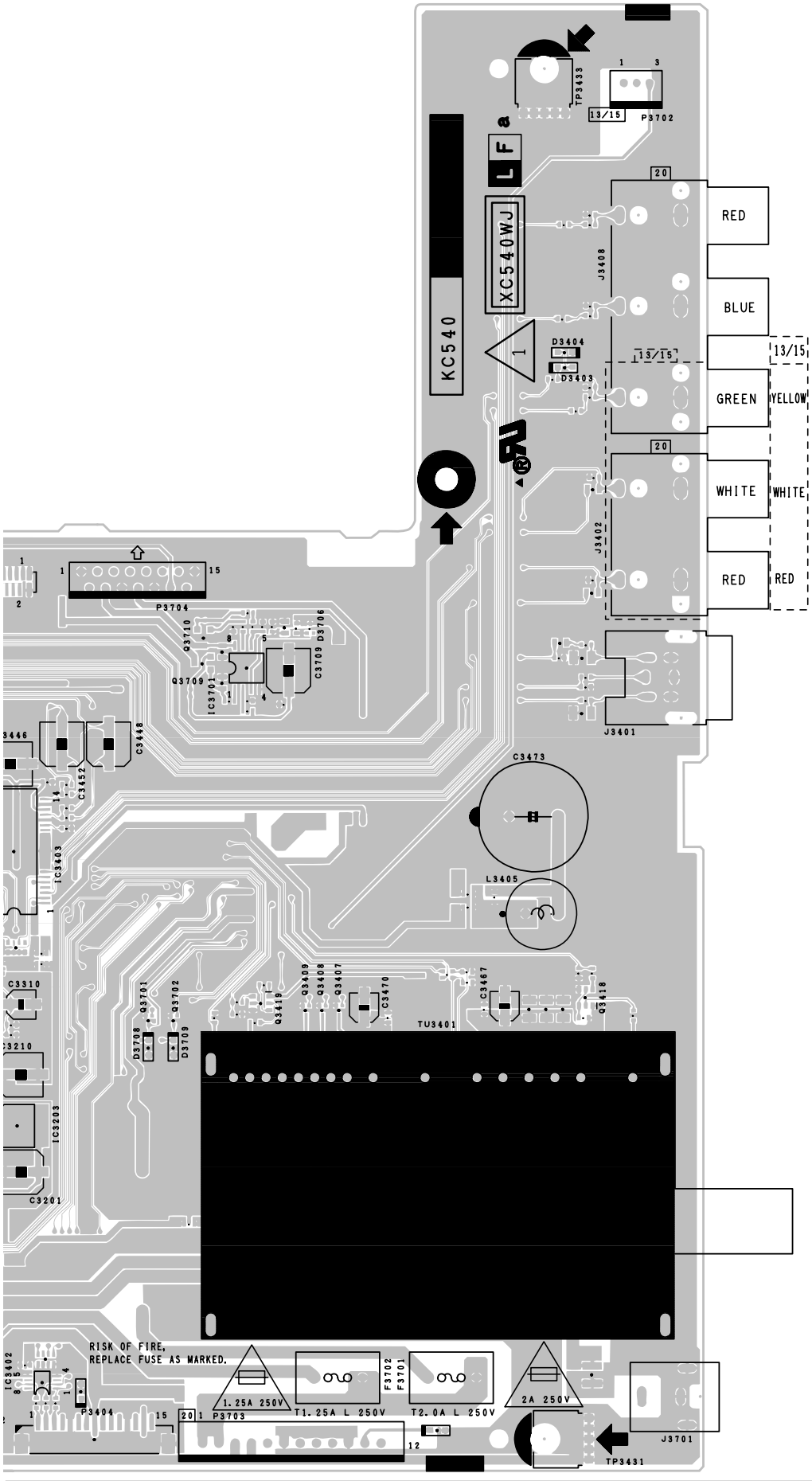
MAIN Unit (Side-B)



MAIN Unit (Chip Parts Side-B)

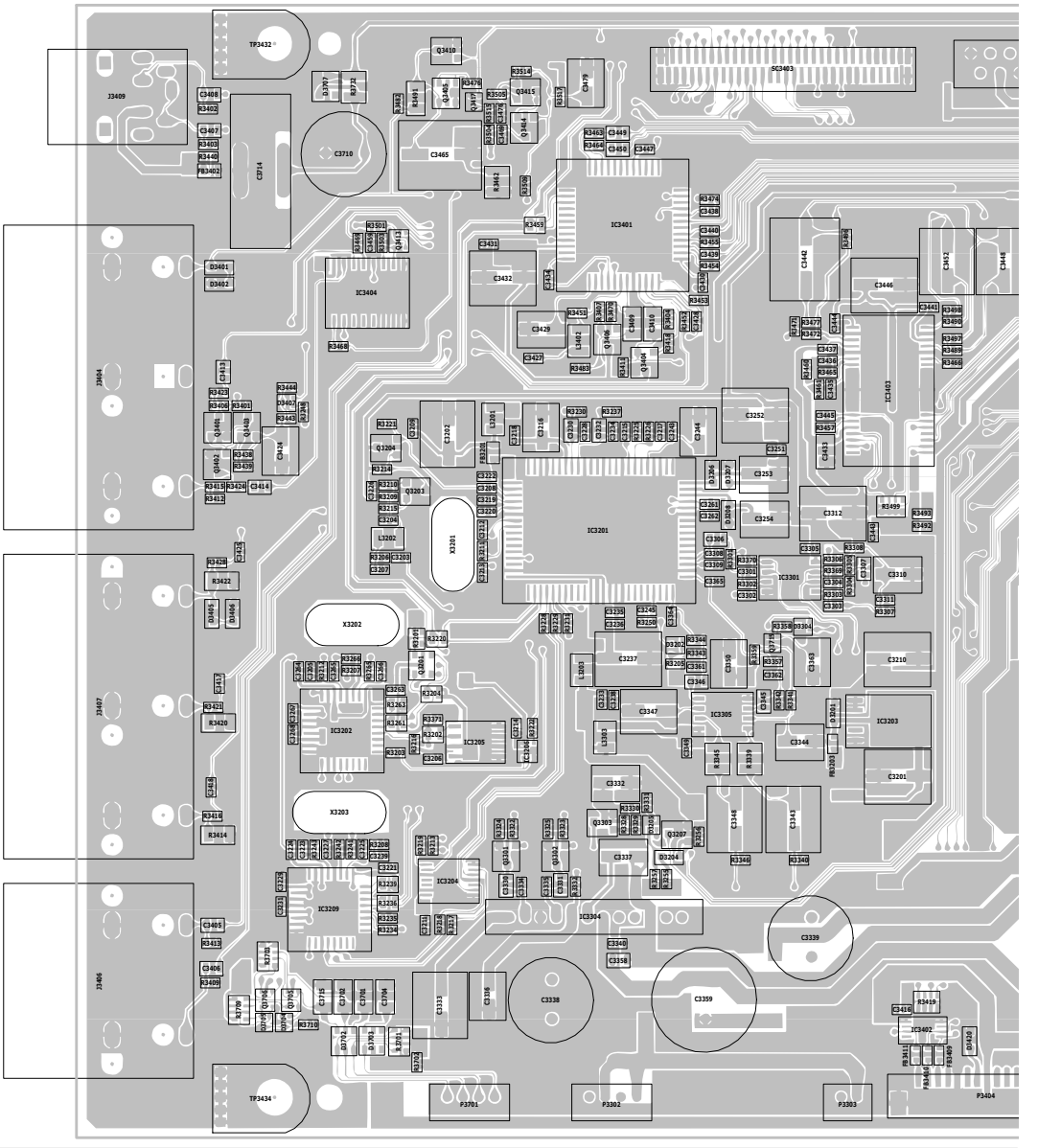
ANALOG Unit (Side-A)

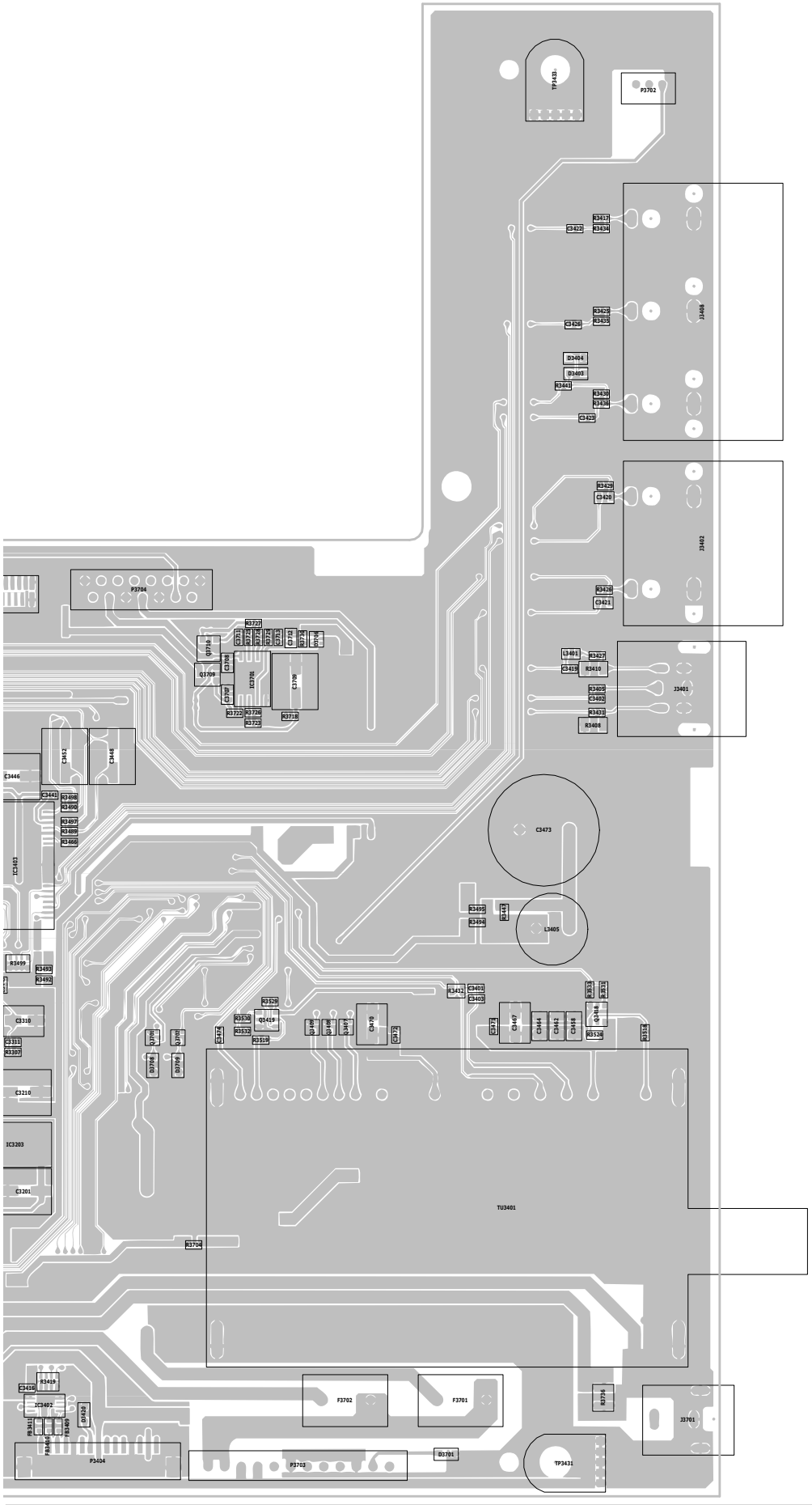




10	11	12	13	14	15	16	17	18	19

ANALOG Unit (Chip Parts Side-A)





10	11	12	13	14	15	16	17	18	19

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 does 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

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLYS
(NOT REPLACEMENT ITEM)

U.S.A/CANADA

DUNTKC539FE06	–		MAIN Unit	—
DUNTKC540DE03	–		ANALOG Unit	—
DUNTKC541DE03	–		OPERATION Unit	—
DUNTKC542DE03	–		R/C, LED Unit	—
RUNTKA087WJZZ		J	INVERTER Unit	BP

KOREA

DUNTKC539FE06	–		MAIN Unit	—
DUNTKC540DE06	–		ANALOG Unit	—
DUNTKC541DE06	–		OPERATION Unit	—
DUNTKC542DE06	–		R/C, LED Unit	—
RUNTKA087WJZZ		J	INVERTER Unit	BP

LCD PANEL

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

RLCDTA031WJZZ		J	20" LCD Panel Unit	DC

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 DERECHANGE

Ref. No.	Part No.	★	Description	Code

DUNTKC539FE06
MAIN Unit

INTEGRATED CIRCUITS

IC401	VHiBR24C21F-1Y	J	BR24C21F-E2	AG
IC402	VHiNC7WZ14P-1Y	J	NC7WZ14P6X	AD
IC403	VHiFSAV330T-1Y	J	FSAV330MTCX	AN
IC701	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC702	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC703	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC704	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC705	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC707	RH-iXA828WJZZY	J	BD9300FV-FE2	AH
IC801	VHiTC90203X-1Q	J	I.C.	BM
IC802	VHiM62332FP-1Y	J	M62332FP	AL
IC803	VHiBA7655AF-1Y	J	BA7655AF	AG
IC804	VHiTC7PA53U-1Y	J	TC7PA53FU	AB
IC1101	VHiBD8132FV-1Y	J	I.C.	AX
IC1201	RH-iXA990WJZZQ	J	I.C.	BH
IC1202	RH-iXA312WJN1Q	J	MT48LC2M32B2TG	AX
IC1203	RH-iXA312WJN1Q	J	MT48LC2M32B2TG	AX
IC1204	RH-iXA991WJN2Y	J	I.C.	AS
IC1703	VHiNJM2147M-1Y	J	NJM2147M-TE1	AF
IC1704	VHiMM1563DF-1Y	J	MM1563DFBE	AE
IC1705	VHiPQ015EZ1-1Y	J	PQ015EZ01ZP	AG
IC1706	VHiLM1117MJ-1Y	J	LM1117MPX-ADJ	AF
IC2001	RH-iXA625WJN1Q	J	M306V7FHFP	BK
IC2002	VHiPQ1L333M-1Y	J	PQ1L333M2SP	AD
IC2003	VHiBD4729G+-1Y	J	BD4729G-TR	AD
IC2004	VHiSi3010KM-1Y	J	SI-3010KM-Tl	AF
IC2005	VHiBR24L32F-1Y	J	I.C.	AG
IC2011	VHiMB3771PF-1Y	J	MB3771PF-G-BND	AG
IC8701	VHiAD9883A1-1Q	J	AD9883AKST-110	BD
IC8803	VHiBA7046F/-1Y	J	BA7046F	AF

TRANSISTORS

Q401	VS2SC5384C/-1Y	J	2SC5384C	AB
Q402	VS2SC5384C/-1Y	J	2SC5384C	AB
Q403	VS2SC5384C/-1Y	J	2SC5384C	AB
Q404	VS2SC5384C/-1Y	J	2SC5384C	AB
Q405	VS2SC5384C/-1Y	J	2SC5384C	AB
Q406	VS2SC5384C/-1Y	J	2SC5384C	AB
Q705	VSUML2N++++-1Y	J	UML2N	AC
Q706	VSUML2N++++-1Y	J	UML2N	AC
Q707	VSUML2N++++-1Y	J	UML2N	AC
Q708	VSUML2N++++-1Y	J	UML2N	AC

DUNTKC539FE06
MAIN Unit (Continued)

Ref. No.	Part No.	★	Description	Code
Q709	VSUML1N++++-1Y	J	UML1N	AC
Q710	VSUML1N++++-1Y	J	UML1N	AC
Q711	VSUML2N++++-1Y	J	UML2N	AC
Q712	VSRTQ035P02-1Y	J	RTQ035P02	AD
Q713	VSRTQ035P02-1Y	J	RTQ035P02	AD
Q714	VSRTQ035P02-1Y	J	RTQ035P02	AD
Q715	VSRHP020N06-1Y	J	RHP020N06	AD
Q716	VSRHP020N06-1Y	J	RHP020N06	AD
Q719	VSUML2N++++-1Y	J	UML2N	AC
Q721	VSRTQ035P02-1Y	J	RTQ035P02	AD
Q801	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q802	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q803	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1101	VS2SC4520//-1Y	J	2SC4520	AE
Q1102	VS2SA1729//-1Y	J	2SA1729	AF
Q1103	VSFMMT718//-1Y	J	FMMT718	AE
Q1104	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1105	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1106	VSDTC114EE/-1Y	J	DTC114EE	AB
Q1107	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1108	VSDTC114EE/-1Y	J	DTC114EE	AB
Q1701	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q1702	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1703	VS2SA1036K/-1Y	J	2SA1036K	AC
Q1705	VSDTC144EE/-1Y	J	DTC144EE	AA
Q1706	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q1707	VSFMMT718//-1Y	J	FMMT718	AE
Q1709	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2002	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q2003	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2004	VS3LN01S///-1Y	J	3LN01S	AC
Q2006	VSDTC114EE/-1Y	J	DTC114EE	AB
Q2007	VSUPA606T//-1Y	J	UPA606T	AD
Q2008	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2013	VSDTC144EE/-1Y	J	DTC144EE	AA
Q2014	VSDTA144EE/-1Y	J	DTA144EE	AA
Q8801	VS2SA1989R/-1Y	J	2SA1989R	AB
Q8802	VS2SC5384C/-1Y	J	2SC5384C	AB

DIODES

D404	VHDDAN217U+-1Y	J	Diode	AB
D405	VHDDAN217U+-1Y	J	Diode	AB
D406	VHD1SS250//1EY	J	Diode	AB
D407	VHD1SS250//1EY	J	Diode	AB
D701	VHDRB051L40-1Y	J	Diode	AD
D702	VHDRB051L40-1Y	J	Diode	AD
D703	VHDRB051L40-1Y	J	Diode	AD
D704	VHDRB051L40-1Y	J	Diode	AD
D705	VHDRF071M2S-1Y	J	Diode	AD
D707	VHD1SS355//-1Y	J	Diode	AB
D708	VHDRB160M40-1Y	J	Diode	AC
D710	VHDRB051L40-1Y	J	Diode	AD
D711	VHDSFPB56//2EY	J	Diode	AC
D720	VHDDAN222//-1Y	J	Diode	AA
D1103	VHD1SS250//1EY	J	Diode	AB
D1701	VHDDAN222//-1Y	J	Diode	AA
D1702	RH-EX1224CEZZY	J	Zener Diode, 2V	AB
D1703	VHDDAN222//-1Y	J	Diode	AA
D1704	RH-EX1224CEZZY	J	Zener Diode, 2V	AB
D1705	VHDDAN202K/-1Y	J	Diode	AB
D1706	VHDDAN222//-1Y	J	Diode	AA
D1707	VHD1SS250//1EY	J	Diode	AB
D1708	VHDRB481K++-1Y	J	Diode	AD
D1709	VHDDAN222//-1Y	J	Diode	AA
D2002	VHDRB491D++-1Y	J	Diode	AD
D2003	VHDDAN202K/-1Y	J	Diode	AB

PACKAGED CIRCUITS

X801	RCRSCA083WJZZY	J	Crystal	AG
X2001	RCRSC0032TAZZY	J	Crystal, 27MHz	AG

FILTER AND COILS

FL401	RFiLN0003TAZZY	J	Filter	AD
FL402	RFiLN0003TAZZY	J	Filter	AD
FL403	RFiLN0003TAZZY	J	Filter	AD
FL2001	RFiLZA003WJPZY	J	Filter	AD
L401	VPCNN220J2R9NY	J	Peaking 22µH	AB
L701	RCiLPA232WJZZY	J	Coil	AE
L702	RCiLPA232WJZZY	J	Coil	AE
L703	RCiLPA232WJZZY	J	Coil	AE
L704	RCiLPA232WJZZY	J	Coil	AE
L705	RCiLPA232WJZZY	J	Coil	AE
L706	RCiLPA148WJZZY	J	Coil	AE
L805	RCiLPA143WJZZY	J	Coil	AD
L809	VP-9N120KR46NY	J	Peaking 12µH	AB
L810	VP-9N120KR46NY	J	Peaking 12µH	AB
L1701	VPCKM1R2JR44NY	J	Peaking 1.2µH	AB
L1702	VPCNN470J5R4NY	J	Peaking 47µH	AB
L8801	VPD9M220J2R7NY	J	Peaking 22µH	AC

TRANSFORMER

T701	RTRNWA141WJZZY	J	Transformer	AF

CAPACITORS

C401	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C402	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA
C403	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C404	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C405	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C406	VCKYTV1AB105KY	J	1	10V	Ceramic	AC
C407	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C408	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C409	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C410	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C411	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C412	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C413	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C701	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C702	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C703	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C704	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C705	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C706	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C708	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C710	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C711	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C712	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C713	VCCCCY1HH331JY	J	330p	50V	Ceramic	AA
C714	VCKYCY1HB332KY	J	3300p	50V	Ceramic	AA
C716	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C721	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C722	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C723	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C724	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C725	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C726	VCCCCY1HH181JY	J	180p	50V	Ceramic	AA
C727	VCKYCY1EB123KY	J	0.012	25V	Ceramic	AA
C728	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C729	VCKYCY1EB123KY	J	0.012	25V	Ceramic	AA
C730	VCKYCY1EB123KY	J	0.012	25V	Ceramic	AA
C731	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C732	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C733	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C734	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C735	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C736	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C737	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C738	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C739	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C740	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C741	RC-KZA108WJZZY	J	10	10V	Ceramic	AC
C742	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C743	RC-KZA108WJZZY	J	10	10V	Ceramic	AC
C744	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C745	RC-KZA108WJZZY	J	10	10V	Ceramic	AC
C746	RC-KZA110WJZZY	J	10	25V	Ceramic	AD

DUNTKC539FE06

MAIN Unit (Continued)

Ref. No.	Part No.	★	Description			Code
C747	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C748	VCKYCY1EB333KY	J	0.033	25V	Ceramic	AA
C750	RC-KZA215WJZZY	J	1	50V	Ceramic	AA
C752	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C756	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C757	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C758	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C761	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C762	VCKYCY0JB105KY	J	1	6.3V	Ceramic	AC
C763	VCCCCY1HH102JY	J	1000p	50V	Ceramic	AB
C764	RC-KZA108WJZZY	J	10	10V	Ceramic	AC
C765	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C766	VCKYCY1HB562KY	J	5600p	50V	Ceramic	AA
C771	VCEASY1CN337MY	J	330	16V	Electrolytic	AD
C801	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C802	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C803	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C804	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C805	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C806	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C807	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C808	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C809	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C810	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C811	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C812	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C813	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C814	VCKYCY1HB152KY	J	1500p	50V	Ceramic	AA
C815	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C816	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C817	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C818	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C819	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C820	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C821	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C823	VCKYCY1CB104KY	J	0.1	16V	Ceramic	AB
C824	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C825	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C826	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C827	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C829	VCKYCY1CB104KY	J	0.1	16V	Ceramic	AB
C830	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C831	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C832	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C833	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C834	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C836	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C837	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C838	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C839	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C840	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C841	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C842	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C843	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C844	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C845	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C846	VCCCCY1HH680JY	J	68p	50V	Ceramic	AA
C847	VCCCCY1HH151JY	J	150p	50V	Ceramic	AA
C848	VCCCCY1HH151JY	J	150p	50V	Ceramic	AA
C849	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C850	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C851	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C852	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C853	VCCCCY1HH4R0CY	J	4p	50V	Ceramic	AA
C854	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C855	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C856	VCAAPC0GJ336MY	J	33	4V	Electrolytic	AE
C857	VCKYCY1HB152KY	J	1500p	50V	Ceramic	AA
C858	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C859	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C860	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C861	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C862	VCCCCY1HH6R0DY	J	6p	50V	Ceramic	AA
C864	VCCCCY1HH6R0DY	J	6p	50V	Ceramic	AA
C865	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C866	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C867	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C868	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C869	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C870	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C871	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C872	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C873	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C874	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C875	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C876	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C877	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C878	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C879	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C880	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C881	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C882	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C883	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C884	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C885	VCKYCY1CB104KY	J	0.1	16V	Ceramic	AB
C886	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C887	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C888	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C889	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C890	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C891	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C892	VCCCCY1HH100DY	J	10p	50V	Ceramic	AA
C895	RC-KZA070WJZZY	J	22	6.3V	Ceramic	AD
C896	RC-KZ0117TAZZY	J	4.7	6.3V	Ceramic	AD
C897	RC-KZ0117TAZZY	J	4.7	6.3V	Ceramic	AD
C899	VCAAPC0GJ336MY	J	33	4V	Electrolytic	AE
C1101	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C1102	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1103	RC-KZA110WJZZY	J	10	25V	Ceramic	AD
C1104	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1105	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C1106	RC-KZ0072TAZZY	J	1	25V	Ceramic	AC
C1107	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C1108	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C1109	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1132	RC-KZA110WJZZY	J	10	25V	Ceramic	AD
C1201	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1202	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1203	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1204	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1205	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1206	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1219	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1220	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1221	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1222	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1227	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1228	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1229	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1230	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1231	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1232	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1233	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1234	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1235	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1236	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1241	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C1242	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C1243	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C1244	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C1249	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1250	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1251	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1252	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1253	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1254	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA

DUNTKC539FE06

MAIN Unit (Continued)

Ref. No.	Part No.	★	Description			Code
C1255	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1256	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1257	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1258	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1259	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1260	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1261	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1262	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1263	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1264	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1265	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1266	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1267	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1268	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1269	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1270	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1271	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1273	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C1701	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1703	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1704	VCEASY1CN337MY	J	330	16V	Electrolytic	AD
C1705	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1706	VCCCCY1HH471JY	J	470p	50V	Ceramic	AA
C1707	RC-KZA070WJZZY	J	22	6.3V	Ceramic	AD
C1708	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1709	VCEASX0JN226MY	J	22	6.3V	Electrolytic	AB
C1710	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C1711	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C1712	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1713	RC-KZA110WJZZY	J	10	25V	Ceramic	AD
C1714	VCEASX1HN475MY	J	4.7	50V	Electrolytic	AC
C1715	VCKYCY1HF104ZY	J	0.1	50V	Ceramic	AA
C1716	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C1717	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C1718	VCKYTV1HF104ZY	J	0.1	50V	Ceramic	AB
C1719	VCKYTV1HF104ZY	J	0.1	50V	Ceramic	AB
C1720	RC-KZA110WJZZY	J	10	25V	Ceramic	AD
C1722	RC-KZA109WJZZY	J	10	16V	Ceramic	AC
C1723	VCEASX1HN106MY	J	10	50V	Electrolytic	AC
C2001	VCKYTV1CF105ZY	J	1	16V	Ceramic	AB
C2002	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2003	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2004	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2005	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C2006	VCKYCY1CB104KY	J	0.1	16V	Ceramic	AB
C2007	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2008	VCCCCY1EH561JY	J	560p	25V	Ceramic	AB
C2009	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C2010	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C2011	VCKYTV1CF684ZY	J	0.68	16V	Ceramic	AB
C2012	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C2013	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C2014	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2015	VCCCCY1HH180JY	J	18p	50V	Ceramic	AA
C2016	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2017	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2018	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C2020	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C2022	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C2023	VCKYCY1HB222KY	J	2200p	50V	Ceramic	AA
C2027	VCEASX0JN476MY	J	47	6.3V	Electrolytic	AC
C2028	VCEASX0JN226MY	J	22	6.3V	Electrolytic	AB
C2029	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C2032	VCKYCY1HB103KY	J	0.01	50V	Ceramic	AA
C8002	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C8701	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8702	RC-KZA070WJZZY	J	22	6.3V	Ceramic	AD
C8703	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8704	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C8705	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8706	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8707	VCKYCY1CB823KY	J	0.082	16V	Ceramic	AH
C8708	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8709	VCKYCY1HB822KY	J	8200p	50V	Ceramic	AB
C8710	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C8711	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8712	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8713	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8714	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8715	RC-KZA070WJZZY	J	22	6.3V	Ceramic	AD
C8716	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C8717	VCKYCY1CB473KY	J	0.047	16V	Ceramic	AA
C8718	VCKYCY1CB473KY	J	0.047	16V	Ceramic	AA
C8719	VCKYCY1CB473KY	J	0.047	16V	Ceramic	AA
C8720	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8807	RC-KZA069WJZZY	J	1	10V	Ceramic	AB
C8812	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C8819	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C8820	VCCCCY1HH101JY	J	100p	50V	Ceramic	AA
C8821	RC-KZA101WJZZY	J	10	6.3V	Ceramic	AC
C8822	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA

RESISTORS

R401	VRS-TW2HF750JY	J	75	1/2W	Metal Oxide	AA
R402	VRS-TW2HF750JY	J	75	1/2W	Metal Oxide	AA
R403	VRS-TW2HF750JY	J	75	1/2W	Metal Oxide	AA
R404	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R405	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R406	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R407	VRS-CY1JF473JY	J	47k	1/16W	Metal Oxide	AA
R408	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R409	VRS-CH1JF101JY	J	100	1/16W	Metal Oxide	AA
R410	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R411	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R412	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R414	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R415	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R416	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R417	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R418	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R419	VRS-CY1JF271JY	J	270	1/16W	Metal Oxide	AA
R424	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R425	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R426	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R427	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R429	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R430	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R431	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R432	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R434	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R435	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R436	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R437	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R439	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R440	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R441	VRS-CY1JF330JY	J	33	1/16W	Metal Oxide	AA
R442	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R445	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R446	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R447	VRS-CY1JF330JY	J	33	1/16W	Metal Oxide	AA
R448	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R451	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R452	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R453	VRS-CY1JF330JY	J	33	1/16W	Metal Oxide	AA
R454	VRS-CY1JF221JY	J	220	1/16W	Metal Oxide	AA
R465	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R466	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R467	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R468	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R469	VRS-TQ2BD000JY	J	0	1/8W	Metal Oxide	AA
R705	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R706	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R707	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R708	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R710	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA

DUNTKC539FE06
MAIN Unit (Continued)

Ref. No.	Part No.	★	Description	Code
R711	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R712	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R713	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R714	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R715	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R716	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R717	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R718	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R719	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R720	VRS-CY1JF104DY	J	100k 1/16W Metal Oxide	AA
R721	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R722	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R723	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R724	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R725	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R726	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R727	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R728	VRS-CY1JF183DY	J	18k 1/16W Metal Oxide	AA
R729	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R730	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R731	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R732	VRS-CY1JF104JY	J	100k 1/16W Metal Oxide	AA
R733	VRS-CY1JF243FY	J	24k 1/16W Metal Oxide	AA
R734	VRS-CY1JF333FY	J	33k 1/16W Metal Oxide	AA
R735	VRS-CY1JF203FY	J	20k 1/16W Metal Oxide	AA
R736	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R737	VRS-CY1JF183FY	J	18k 1/16W Metal Oxide	AA
R738	VRS-CY1JF154FY	J	150k 1/16W Metal Oxide	AA
R739	VRS-CY1JF104FY	J	100k 1/16W Metal Oxide	AA
R740	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R741	VRS-CY1JF333FY	J	33k 1/16W Metal Oxide	AA
R742	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R743	VRS-CY1JF562JY	J	5.6k 1/16W Metal Oxide	AA
R744	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R745	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R746	VRS-CY1JF224FY	J	220k 1/16W Metal Oxide	AA
R747	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R758	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R759	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R760	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R761	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R762	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R763	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R764	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R765	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R766	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R767	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R768	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R769	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R770	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R771	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R772	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R773	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R774	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R775	VRS-CY1JF303JY	J	30k 1/16W Metal Oxide	AA
R776	VRS-CY1JF303JY	J	30k 1/16W Metal Oxide	AA
R777	VRS-TW2HF272JY	J	2.7k 1/2W Metal Oxide	AA
R778	VRS-TW2HF272JY	J	2.7k 1/2W Metal Oxide	AA
R781	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R782	VRS-CY1JF203DY	J	20k 1/16W Metal Oxide	AA
R783	VRS-CY1JF123DY	J	12k 1/16W Metal Oxide	AA
R784	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R786	VRS-CY1JF223JY	J	22k 1/16W Metal Oxide	AA
R787	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R788	VRS-CY1JF473FY	J	47k 1/16W Metal Oxide	AA
R789	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R792	VRS-CY1JF103JY	J	10k 1/16W Metal Oxide	AA
R793	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R794	VRS-CY1JF511JY	J	510 1/16W Metal Oxide	AA
R795	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R801	VRS-CJ1JF101JY	J	100 1/16W Metal Oxide	AA
R802	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R804	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R807	VRS-CY1JF181JY	J	180 1/16W Metal Oxide	AA
R809	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R811	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R812	VRS-CY1JF821JY	J	820 1/16W Metal Oxide	AA
R813	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R814	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R815	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R816	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R817	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R818	VRS-CY1JF152JY	J	1.5k 1/16W Metal Oxide	AA
R819	VRS-CY1JF122JY	J	1.2k 1/16W Metal Oxide	AA
R820	VRS-CY1JF105JY	J	1M 1/16W Metal Oxide	AA
R821	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R822	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R824	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R825	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R826	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R827	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R828	VRS-CJ1JF470JY	J	47 1/16W Metal Oxide	AA
R829	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R832	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R833	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R834	VRS-CY1JF332JY	J	3.3k 1/16W Metal Oxide	AA
R835	VRS-CY1JF561JY	J	560 1/16W Metal Oxide	AA
R836	VRS-CY1JF561JY	J	560 1/16W Metal Oxide	AA
R837	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R838	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R844	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R845	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R846	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R848	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1101	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1102	VRS-CY1JF102JY	J	1k 1/16W Metal Oxide	AA
R1103	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R1104	VRS-CY1JF333JY	J	33k 1/16W Metal Oxide	AA
R1105	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1111	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1112	VRS-TW2ED102JY	J	1k 1/4W Metal Oxide	AA
R1113	VRS-TW2HF5R6JY	J	5.6 1/2W Metal Oxide	AA
R1114	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R1115	VRS-TQ2BD332JY	J	3.3k 1/8W Metal Oxide	AB
R1116	VRS-TW2ED182JY	J	1.8k 1/4W Metal Oxide	AA
R1117	VRS-CY1JF272JY	J	2.7k 1/16W Metal Oxide	AA
R1118	VRS-TQ2BD332JY	J	3.3k 1/8W Metal Oxide	AB
R1119	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1201	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1202	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1203	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1204	VRS-CY1JF151JY	J	150 1/16W Metal Oxide	AA
R1205	VRS-CY1JF331JY	J	330 1/16W Metal Oxide	AA
R1206	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1208	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1209	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1217	VRS-CY1JF000JY	J	0 1/16W Metal Oxide	AA
R1218	VRS-CY1JF472JY	J	4.7k 1/16W Metal Oxide	AA
R1224	VRS-TV1JD101JY	J	100 1/10W Metal Oxide	AA
R1226	VRS-CY1JF101JY	J	100 1/16W Metal Oxide	AA
R1236	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1237	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1238	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1239	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1240	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1241	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1242	VRS-CH1JF000JY	J	0 1/16W Metal Oxide	AA
R1246	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1247	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1248	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1249	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1250	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1251	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1252	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1253	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA
R1254	VRS-CH1JF151JY	J	150 1/16W Metal Oxide	AA

DUNTKC539FE06

MAIN Unit (Continued)

Ref. No.	Part No.	★	Description			Code
R1255	VRS-CH1JF151JY	J	150	1/16W	Metal Oxide	AA
R1256	VRS-CH1JF151JY	J	150	1/16W	Metal Oxide	AA
R1257	VRS-CH1JF151JY	J	150	1/16W	Metal Oxide	AA
R1262	VRS-CY1JF470JY	J	47	1/16W	Metal Oxide	AA
R1263	VRS-CY1JF470JY	J	47	1/16W	Metal Oxide	AA
R1264	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1701	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R1702	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R1703	VRS-CY1JF333FY	J	33k	1/16W	Metal Oxide	AA
R1704	VRS-TW2ED123JY	J	12k	1/4W	Metal Oxide	AA
R1706	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R1707	VRS-CY1JF473FY	J	47k	1/16W	Metal Oxide	AA
R1708	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1709	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R1711	VRS-TW2HF330JY	J	33	1/2W	Metal Oxide	AA
R1713	VRS-TV1JD562JY	J	5.6k	1/10W	Metal Oxide	AA
R1714	VRS-TW2HF472JY	J	4.7k	1/2W	Metal Oxide	AA
R1715	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1717	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R1718	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R1719	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R1720	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R1721	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R1722	VRS-CY1JF182FY	J	1.8k	1/16W	Metal Oxide	AA
R1723	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R1724	VRS-CY1JF273FY	J	27k	1/16W	Metal Oxide	AA
R1729	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R1730	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R1731	VRS-TW2HF102JY	J	1k	1/2W	Metal Oxide	AA
R1733	VRS-CY1JF121JY	J	120	1/16W	Metal Oxide	AA
R1734	VRS-CY1JF182JY	J	1.8k	1/16W	Metal Oxide	AA
R1735	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R1736	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2002	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R2003	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2004	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF1R0JY	J	1	1/16W	Metal Oxide	AA
R2012	VRS-CY1JF274JY	J	270k	1/16W	Metal Oxide	AA
R2014	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2015	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2016	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2019	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2020	VRS-CY1JF563FY	J	56k	1/16W	Metal Oxide	AA
R2021	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2022	VRS-CJ1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2023	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2026	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2027	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2028	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA
R2029	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2030	VRS-CY1JF394FY	J	390k	1/16W	Metal Oxide	AA
R2031	VRS-CY1JF823JY	J	82k	1/16W	Metal Oxide	AA
R2032	VRS-CJ1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2036	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R2038	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2039	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R2040	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2041	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2042	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R2043	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2044	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2045	VRS-CH1JF101JY	J	100	1/16W	Metal Oxide	AA
R2046	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R2047	VRS-CY1JF512JY	J	5.1k	1/16W	Metal Oxide	AA
R2048	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2049	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2052	VRS-CY1JF394JY	J	390k	1/16W	Metal Oxide	AA
R2056	VRS-CJ1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2057	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2058	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2060	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R2061	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2062	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2064	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R2065	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2067	VRS-CJ1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R2069	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2070	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2074	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2075	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R2076	VRS-CH1JF101JY	J	100	1/16W	Metal Oxide	AA
R2077	VRS-CJ1JF000JY	J	0	1/16W	Metal Oxide	AA
R2079	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R2087	VRS-CH1JF101JY	J	100	1/16W	Metal Oxide	AA
R2090	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2091	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2103	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2104	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2112	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2113	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2114	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2123	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R2124	VRS-CY1JF433FY	J	43k	1/16W	Metal Oxide	AA
R2125	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2126	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R2130	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R2132	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R2133	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2134	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2135	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2137	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2138	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2140	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2141	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2142	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2143	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R2144	VRS-CY1JF223JY	J	22k	1/16W	Metal Oxide	AA
R8701	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R8702	VRS-TQ2BD272JY	J	2.7k	1/8W	Metal Oxide	AB
R8703	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R8704	VRS-CY1JF151JY	J	150	1/16W	Metal Oxide	AA
R8705	VRS-CY1JF151JY	J	150	1/16W	Metal Oxide	AA
R8706	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R8707	VRS-CY1JF220JY	J	22	1/16W	Metal Oxide	AA
R8715	VRS-CJ1JF220JY	J	22	1/16W	Metal Oxide	AA
R8718	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8719	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8720	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8721	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8722	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8723	VRS-CH1JF330JY	J	33	1/16W	Metal Oxide	AA
R8801	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R8803	VRS-CY1JF222JY	J	2.2k	1/16W	Metal Oxide	AA
R8805	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R8807	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R8808	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R8809	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA
R8810	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R8812	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R8814	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB401	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB402	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB403	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB404	RBLN-0060TAZZY	J	Ferrite Bead	AB
FB701	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB702	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB703	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB704	RBLN-0051TAZZY	J	Ferrite Bead	AC
FB706	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB708	RBLN-0051TAZZY	J	Ferrite Bead	AC
FB710	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB712	RBLN-0095CEZZY	J	Ferrite Bead	AD
FB713	RBLN-0209TAZZY	J	Ferrite Bead	AB
FB714	RBLN-0209TAZZY	J	Ferrite Bead	AB

Ref. No.	Part No.	★	Description	Code

DUNTKC539FE06
MAIN Unit (Continued)

FB801	RBLN-A118WJZZY	J	Ferrite Bead	AC
FB803	RBLN-A118WJZZY	J	Ferrite Bead	AC
FB804	RBLN-A118WJZZY	J	Ferrite Bead	AC
FB806	RBLN-A118WJZZY	J	Ferrite Bead	AC
FB8701	RBLN-0050TAZZY	J	Ferrite Bead	AA
FB8702	RBLN-0050TAZZY	J	Ferrite Bead	AA
FB8703	RBLN-0050TAZZY	J	Ferrite Bead	AA
P1202	QPLGN0658REZZY	J	Plug, 6-pin	AD
P2003	QPLGN0558REZZY	J	Plug, 5-pin	AE
P2004	QPLGNA144WJZZY	J	Plug, 20-pin	AF
SC401	QSOCNA101WJZZ	J	ANALOG RGB(PC-IN)	AF
SC701	QCNCWA010WJZZY	J	Connector, 15-pin	AE
SC1201	QSOCNA222WJZZY	J	Socket, 80-pin	AH
SC2001	QSOCNA292WJZZY	J	Socket, 60-pin	AF
TP2004	QLUGHA006WJZZY	J	Lug	AC
TP2005	QLUGHA006WJZZY	J	Lug	AC
TP2006	QLUGHA006WJZZY	J	Lug	AC
TP2068	QLUGHA006WJZZY	J	Lug	AC
TP2069	QLUGHA006WJZZY	J	Lug	AC

Ref. No.	Part No.	★	Description	Code

DUNTKC540DE03 (U.S.A/CANADA)
DUNTKC540DE06 (KOREA)
ANALOG Unit

TUNER

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

TU3401	VTUVT2U5UF559	J	Tuner	BB

INTEGRATED CIRCUITS

IC3201	RH-iX3370CEN2Q	J	MSP3440G-QA-C1	AX
IC3304	VHiLA4635A+-1S	J	LA4635A	AM
IC3305	VHiBH3544F+-1Y	J	BH3544F-E2	AE
IC3401	VHiCXA2089Q-1S	J	CXA2089Q	AN
IC3403	VHiSM5301AS-1Y	J	SM5301AS-G-ET	AR
IC3404	VHiTC4053BF1EY	J	TC4053BF	AF
IC3701	VHiNJM2147M-1Y	J	NJM2147M-TE1	AF

TRANSISTORS

Q3203	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3204	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3207	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3301	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3302	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3303	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q3401	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3402	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3403	VS2SA1037KQ-1Y	J	2SA1037KQ	AA
Q3404	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3406	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3410	VSDTC314TK/-1Y	J	DTC314TK	AC
Q3413	VSUMG4N++++-1Y	J	UMG4N	AB
Q3414	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3419	VSiMZ1A////-1Y	J	IMZ1A	AC
Q3701	VSDTC114YE/-1Y	J	DTC114YE	AB
Q3709	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3710	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q3715	VSDTC114EE/-1Y	J	DTC114EE	AB

DIODES

D3204	RH-EX1396CEZZY	J	Zener Diode, 6.8V	AB
D3205	VHDDAN222//-1Y	J	Diode	AA
D3304	VHDDAN222//-1Y	J	Diode	AA
D3407	VHDDAN222//-1Y	J	Diode	AA
D3701	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D3706	VHDDAN222//-1Y	J	Diode	AA
D3707	VHDRB491D++-1Y	J	Diode	AD

PACKAGED CIRCUITS

X3201	RCRSB0250GEZZ	J	Crystal, 18.432MHz	AG

COILS

L3201	VPCNN101J7R7NY	J	Peaking 100µH	AB
L3202	VPCNN220J2R9NY	J	Peaking 22µH	AB
L3203	VPCNN4R7J1R2NY	J	Peaking 4.7µH	AB
L3303	VPCNN101J7R7NY	J	Peaking 100µH	AB
L3401	VP-9N4R7KR56NY	J	Peaking 4.7µH	AC
L3405	RCiLPA142WJZZ	J	Coil	AD

CAPACITORS

C3202	VCEASX0JN107MY	J	100	6.3V	Electrolytic	AC
C3203	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3204	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3207	VCCCCY1HH330JY	J	33p	50V	Ceramic	AA
C3208	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C3209	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3212	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C3213	VCCCCY1HH5R0CY	J	5p	50V	Ceramic	AA
C3215	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3216	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3217	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3218	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3219	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB
C3220	VCCCCY1HH560JY	J	56p	50V	Ceramic	AB

DUNTKC540DE03 (U.S.A/CANADA)
DUNTKC540DE06 (KOREA)
ANALOG Unit (Continued)

Ref. No.	Part No.	★	Description			Code
C3222	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3226	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3228	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3230	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3232	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3234	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3235	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3236	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3237	VCEASX0JN107MY	J	100	6.3V	Electrolytic	AC
C3243	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3244	VCEASX1HN335MY	J	3.3	50V	Electrolytic	AB
C3245	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3251	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3252	VCEASX1CN107MY	J	100	16V	Electrolytic	AC
C3253	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3254	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3261	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3262	VCKYCY1EB223KY	J	0.022	25V	Ceramic	AA
C3306	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3307	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3308	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3309	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3330	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3331	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3332	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3333	VCEASX1CN107MY	J	100	16V	Electrolytic	AC
C3334	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3335	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3336	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3337	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3338	RC-EZA216WJZZ	J	1000	16V	Electrolytic	AD
C3339	RC-EZA216WJZZ	J	1000	16V	Electrolytic	AD
C3340	RC-KZ1025CEZZY	J	1	10V	Ceramic	AB
C3343	VCEASX0JN227MY	J	220	6.3V	Electrolytic	AC
C3344	VCEASX1HN225MY	J	2.2	50V	Electrolytic	AB
C3345	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3346	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3347	VCEASX0JN476MY	J	47	6.3V	Electrolytic	AC
C3348	VCEASX0JN227MY	J	220	6.3V	Electrolytic	AC
C3349	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3350	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3358	VCKYTV1CB105KY	J	1	16V	Ceramic	AC
C3359	RC-EZA216WJZZ	J	1000	16V	Electrolytic	AD
C3361	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3362	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3363	VCEASX1HN225MY	J	2.2	50V	Electrolytic	AB
C3364	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3365	VCKYCY1HB102KY	J	1000p	50V	Ceramic	AA
C3402	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3405	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3406	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3407	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3408	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3413	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3414	RC-KZA030WJZZY	J	2.2	10V	Ceramic	AB
C3417	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3418	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3419	VCCCCY1HH221JY	J	220p	50V	Ceramic	AA
C3420	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3421	RC-KZA111WJZZY	J	1	25V	Ceramic	AC
C3422	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3423	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3424	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3425	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3426	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3428	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3429	VCEASX1CN106MY	J	10	16V	Electrolytic	AC
C3430	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3431	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3432	VCEASX1CN107MY	J	100	16V	Electrolytic	AC
C3433	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C3434	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3435	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3436	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3437	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3438	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3439	VCKYCY1AB105KY	J	1	10V	Ceramic	AB
C3440	VCKYCY1CB104KY	J	0.1	16V	Ceramic	AB
C3441	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3443	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3444	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3446	VCEASX0JN107MY	J	100	6.3V	Electrolytic	AC
C3447	RC-KZA116WJZZY	J	1	10V	Ceramic	AC
C3458	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C3459	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3462	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C3464	RC-KZ0074TAZZY	J	10	6.3V	Ceramic	AF
C3465	VCEASY1CN477MY	J	470	16V	Electrolytic	AD
C3467	VCAAPC0JJ226MY	J	22	6.3V	Electrolytic	AE
C3469	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3470	VCEASX1HN105MY	J	1	50V	Electrolytic	AB
C3471	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3472	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA
C3473	RC-EZ1351CEZZ	J	3300	6.3V	Electrolytic	AF
C3707	VCKYTV1HF104ZY	J	0.1	50V	Ceramic	AB
C3708	VCKYTV1HF104ZY	J	0.1	50V	Ceramic	AB
C3709	VCEASX1CN107MY	J	100	16V	Electrolytic	AC
C3711	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA
C3712	RC-KZ0071TAZZY	J	2.2	6.3V	Ceramic	AD
C3713	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C3714	RC-EZ0380GEZZ	J	1F	5.5V	Electrolytic	AM

RESISTORS

R3206	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3209	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3210	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA
R3211	VRS-CY1JF105JY	J	1M	1/16W	Metal Oxide	AA
R3214	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R3215	VRS-CY1JF331JY	J	330	1/16W	Metal Oxide	AA
R3220	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R3221	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3248	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3250	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3255	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA
R3256	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3257	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3322	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3323	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3324	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3325	VRS-CY1JF272JY	J	2.7k	1/16W	Metal Oxide	AA
R3328	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3329	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3330	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3331	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3332	VRS-CY1JF122JY	J	1.2k	1/16W	Metal Oxide	AA
R3339	VRS-TW2ED180JY	J	18	1/4W	Metal Oxide	AA
R3340	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R3341	VRS-CY1JF224JY	J	220k	1/16W	Metal Oxide	AA
R3342	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3343	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3344	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3345	VRS-TW2ED180JY	J	18	1/4W	Metal Oxide	AA
R3346	VRS-CY1JF392JY	J	3.9k	1/16W	Metal Oxide	AA
R3357	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3358	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3359	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3369	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3370	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3372	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3401	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3402	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3403	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3405	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3406	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3408	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3409	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA

DUNTKC540DE03 (U.S.A/CANADA)
DUNTKC540DE06 (KOREA)
ANALOG Unit (Continued)

Ref. No.	Part No.	★	Description			Code
R3410	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3411	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3412	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3413	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3414	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3415	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3416	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3417	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3418	VRS-CY1JF331JY	J	330	1/16W	Metal Oxide	AA
R3420	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3421	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3422	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3423	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3424	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA
R3425	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3426	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3427	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3428	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3429	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3430	VRS-CY1JF750JY	J	75	1/16W	Metal Oxide	AA
R3431	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3432	VRS-CJ1JF331JY	J	330	1/16W	Metal Oxide	AA
R3434	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3435	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3436	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3438	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3439	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3440	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3441	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3443	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3444	VRS-CY1JF153JY	J	15k	1/16W	Metal Oxide	AA
R3452	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3453	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3454	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3455	VRS-CY1JF562JY	J	5.6k	1/16W	Metal Oxide	AA
R3457	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3459	VRS-CJ1JF101JY	J	100	1/16W	Metal Oxide	AA
R3462	VRS-TW2HF221JY	J	220	1/2W	Metal Oxide	AA
R3465	VRS-CY1JF122FY	J	1.2k	1/16W	Metal Oxide	AA
R3466	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3468	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3469	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R3470	VRS-CY1JF331JY	J	330	1/16W	Metal Oxide	AA
R3472	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3474	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3482	VRS-CY1JF104JY	J	100k	1/16W	Metal Oxide	AA
R3483	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3491	VRS-TQ2BD750JY	J	75	1/8W	Metal Oxide	AA
R3492	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3494	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3496	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3497	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3498	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3499	VRS-CH1JF000JY	J	0	1/16W	Metal Oxide	AA
R3501	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3503	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3504	VRS-CY1JF100JY	J	10	1/16W	Metal Oxide	AA
R3509	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA
R3519	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3529	VRS-CY1JF152JY	J	1.5k	1/16W	Metal Oxide	AA
R3530	VRS-CY1JF561FY	J	560	1/16W	Metal Oxide	AA
R3532	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R3533	VRS-CY1JF102FY	J	1k	1/16W	Metal Oxide	AA
R3704	VRS-CY1JF000JY	J	0	1/16W	Metal Oxide	AA
R3722	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3723	VRS-CY1JF332FY	J	3.3k	1/16W	Metal Oxide	AA
R3725	VRS-CY1JF102JY	J	1k	1/16W	Metal Oxide	AA
R3726	VRS-CY1JF562FY	J	5.6k	1/16W	Metal Oxide	AA
R3727	VRS-CY1JF473FY	J	47k	1/16W	Metal Oxide	AA
R3728	VRS-CY1JF822FY	J	8.2k	1/16W	Metal Oxide	AA
R3729	VRS-CY1JF103FY	J	10k	1/16W	Metal Oxide	AA
R3730	VRS-CY1JF103JY	J	10k	1/16W	Metal Oxide	AA
R3732	VRS-TW2HF101JY	J	100	1/2W	Metal Oxide	AA
R3736	VRS-TW2HF000JY	J	0	1/2W	Metal Oxide	AA

MISCELLANEOUS PARTS

Ref. No.	Part No.	★	Description	Code
⚠ F3701	QFS-ZA004WJZZ	J	Fuse, 2.0A/250V	AD
⚠ F3702	QFS-ZA002WJZZ	J	Fuse, 1.25A/250V	AD
FB3201	RBLN-0035TAZZY	J	Ferrite Bead	AB
FB3409	RBLN-0029TAZZY	J	Ferrite Bead	AB
FB3410	RBLN-0029TAZZY	J	Ferrite Bead	AB
FB3411	RBLN-0029TAZZY	J	Ferrite Bead	AB
J3401	QSOCD0456CEZZ	J	S-VIDEO (COMPONENT2/AV1)	AE
J3402	QJAKFA021WJZZ	J	AUDIO(L/R) (COMPONENT2/AV1)	AD
J3404	QJAKGA038WJZZ	J	AV-IN2/OUT Terminal	AE
J3406	QJAKFA017WJZZ	J	AUDIO(L/R) (COMPONENT)	AD
J3407	QJAKGA039WJZZ	J	Y/PB/PR(COMPONENT)	AE
J3408	QJAKGA039WJZZ	J	Y/PB/PRY/VIDEO (COMPONENT2/AV1)	AE
J3409	QJAKJ0047CEZZ	J	AUDIO(PC-IN)	AD
J3701	QJAKCA010WJZZ	J	POWER INPUT(DC12V)	AF
P3302	QPLGN0278GEZZ	J	Plug, 4-pin	AA
P3303	QPLGN0278GEZZ	J	Plug, 2-pin	AA
P3404	QPLGN1558REZZY	J	Plug, 15-pin	AD
P3703	QPLGN1241CEZZ	J	Plug, 12-pin	AB
P3704	QCNCMA012WJZZ	J	Connector, 15-pin	AD
SC3403	QSOCNA292WJZZY	J	Socket, 60-pin	AF
TP3431	QLUGHA006WJZZY	J	Lug	AC
TP3432	QLUGHA006WJZZY	J	Lug	AC
TP3433	QLUGHA006WJZZY	J	Lug	AC
TP3434	QLUGHA006WJZZY	J	Lug	AC

Ref. No.	Part No.	★	Description	Code

DUNTKC541DE03 (U.S.A/CANADA)
DUNTKC541DE06 (KOREA)
OPERATION Unit

DIODES

D4050	RH-EX1271CEZZY	J	Zener Diode, 12V	AB
D4051	RH-EX1283CEZZY	J	Zener Diode, 12V	AB
D4052	RH-EX1271CEZZY	J	Zener Diode, 18V	AB

RESISTORS

R4050	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R4051	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA
R4052	VRS-CY1JF682JY	J	6.8k	1/16W	Metal Oxide	AA
R4053	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA

SWITCH

S4053	QSW-P0035GEZZ	J	MAIN POWER	AF
SW4050	QSW-K0108CEZZY	J	CH(Channel)(∨)	AD
SW4051	QSW-K0108CEZZY	J	CH(Channel)(∧)	AD
SW4052	QSW-K0108CEZZY	J	TV/VIDEO	AD
SW4054	QSW-K0108CEZZY	J	MENU	AD
SW4055	QSW-K0108CEZZY	J	VOL(Volume)(+)	AD
SW4056	QSW-K0108CEZZY	J	VOL(Volume)(–)	AD

MISCELLANEOUS PARTS

P4050	QPLGN0563TAZZY	J	Plug, 5-pin	AC

Ref. No.	Part No.	★	Description	Code

DUNTKC542DE03 (U.S.A/CANADA)
DUNTKC542DE06 (KOREA)
R/C, LED Unit

INTEGRATED CIRCUITS

IC4001	VHILM70CIMM-1Y	J	LM70CIMMX-3	AH
IC4201	VHITPS850++-1Y	J	TPS850	AG

TRANSISTORS

Q4001	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4003	VSDTC144EE/-1Y	J	DTC144EE	AA
Q4004	VSDTC144EE/-1Y	J	DTC144EE	AA

DIODES

D4001	RH-PX0421CEZZY	J	POWER/WAKE UP Indicator	AD
D4002	RH-PX0421CEZZY	J	OPC Indicator	AD

CAPACITORS

C4001	RC-KZ0117TAZZY	J	4.7	6.3V	Ceramic	AD
C4002	VCKYCY1EF104ZY	J	0.1	25V	Ceramic	AA
C4201	RC-KZA041WJZZY	J	10	10V	Ceramic	AC
C4202	VCEASX0JN107MY	J	100	6.3V	ElectrolytIc	AC
C4203	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA

RESISTORS

R4001	VRS-CY1JF391JY	J	390	1/16W	Metal OXIde	AA
R4002	VRS-CY1JF182JY	J	1.8k	1/16W	Metal OXIde	AA
R4005	VRS-CY1JF391JY	J	390	1/16W	Metal OXIde	AA
R4006	VRS-CY1JF101JY	J	100	1/16W	Metal OXIde	AA

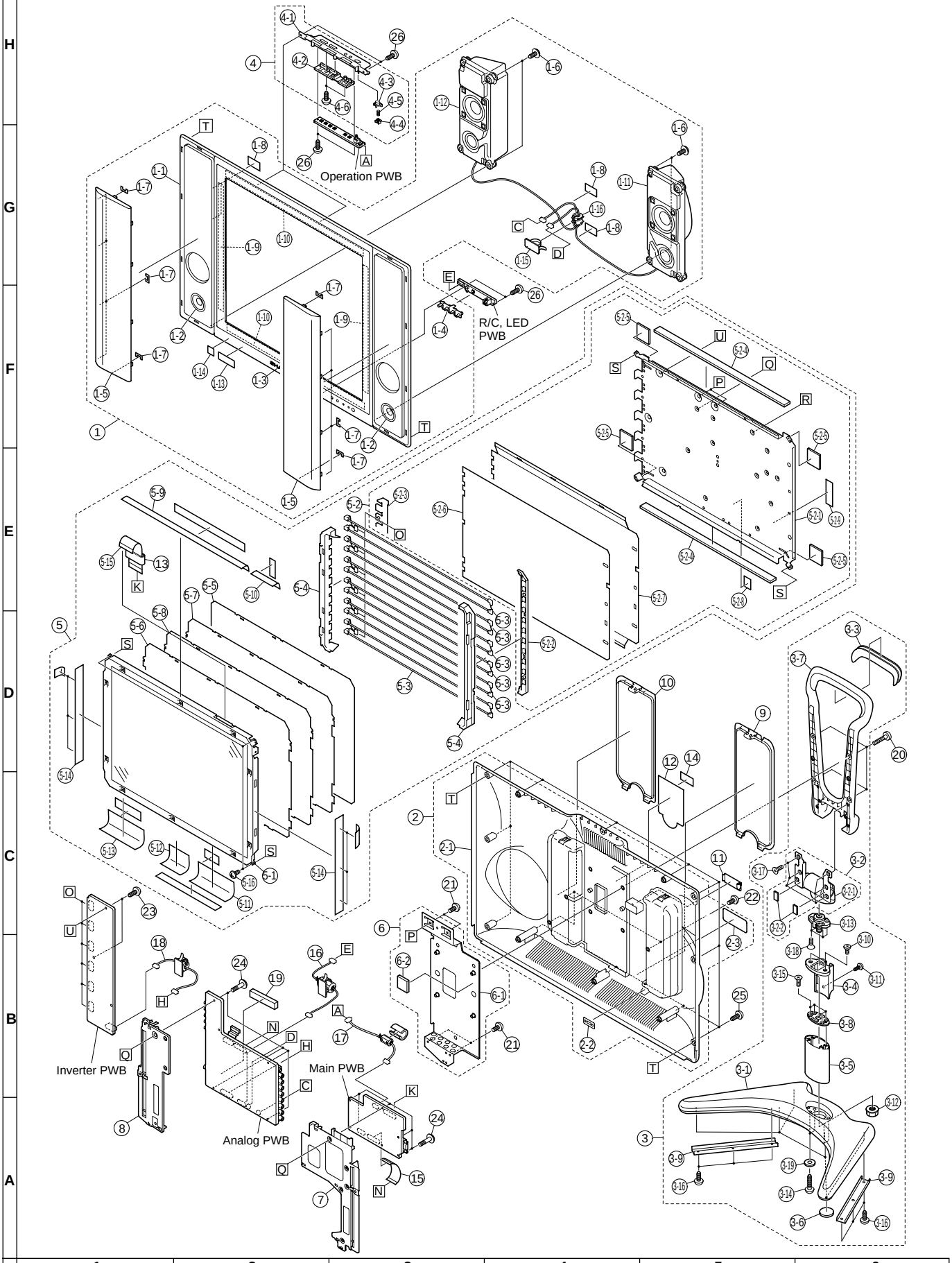
MISCELLANEOUS PARTS

J4021	QJAKJA008WJSA	J	HEADPHONE Jack	AE
P4001	QPLGN1558REZZY	J	Plug, 15-pin	AD
RMC4001	RRMCU0239CEZZ	J	ReMote ReceIver	AG

CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	CCABAA607WJ01	J	Cabinet A Ass'y	BS
1-1	*Not Available*	–	Cabinet A	—
1-2	GCOVAA704WJKA	J	Speaker Cover, x2	AH
1-3	*Not Available*	–	"SHARP" Badge	—
1-4	HDECQA346WJSA	J	R/C, LED Cover	AE
1-5	HPNC-A055WJSA	J	Speaker Punching, x2	AW
1-6	LX-HZA003WJFN	J	Screw, x4	AC
1-7	PSPAHA320WJZZ	J	Spacer, x12	AA
1-8	PSPAHA347WJZZ	J	Light Shielding Spacer, x4	AB
1-9	PSPAHA391WJZZ	J	Spacer(R/L), x2	AC
1-10	PSPAHA392WJZZ	J	Spacer(T/B), x2	AC
1-11	RSP-ZA063WJZZ	J	Speaker Box(R)	AZ
1-12	RSP-ZA064WJZZ	J	Speaker Box(L)	AZ
1-13	TLABZA464WJZZ	J	"POP" Label	AD
1-14	TLABZA635WJZZ	J	"Energy Star" Label	AC
1-15	LHLDWA045WJZZ	J	Holder	AD
1-16	RCORFA038WJZZ	J	Core, x1	AH
2	CCABBA402WJ01	J	Cabinet B Ass'y	BB
2-1	*Not Available*	–	Cabinet B	—
2-2	LANGFA085WJFW	J	Round Lock	AC
2-3	TCAUHA044WJSC	J	Caution Label	AE
3	CDAi-A098WJ01	J	Stand Ass'y	BR
3-1	GDAi-A098WJSA	J	Stand, Base	BA
3-2	CDAi-A097WJ01	J	Stand Joint Ass'y	BC
3-2-1	*Not Available*	–	Stand Joint	—
3-2-2	PSPAZA083WJZZ	J	Cushion Spacer, x2	AB
3-3	GCOVAA662WJSA	J	Stand Grip	AK
3-4	GCOVAA663WJSA	J	Support Cover	AP
3-5	GDAi-A101WJSA	J	Support	AS
3-6	GLEGGA010WJZZ	J	Rubber Leg, x6	AC
3-7	JHNDPA008WJSA	J	Stand Handle	AX
3-8	LANGGA016WJF7	J	Swivel Base	AP
3-9	LANGHA004WJFW	J	Base Angle, x2	AE
3-10	LX-BZA019WJFN	J	Screw, x2	AB
3-11	LX-EZA008WJFN	J	Screw, x1	AB
3-12	LX-NZA001WJFN	J	Nut, x1	AD
3-13	MHNG-A048WJFW	J	Swivel Hinge	AS
3-14	XCBS950P25000	J	Screw, x4	AC
3-15	XCSSN50P20000	J	Screw, x4	AB
3-16	XEBS940P10000	J	Screw, x6	AB
3-17	XESSN40P10000	J	Screw, x6	AB
3-18	XUSSN40P20000	J	Screw, x4	AA
3-19	XWHS950-16120	J	Washer, x4	AB
4	CCOVAA819WJ01	J	Top Cover Ass'y	AS
4-1	*Not Available*	–	Top Cover	—
4-2	JBTN-A087WJKC	J	Operation Button	AH
4-3	JBTN-A088WJKC	J	Power Button	AG
4-4	LHLDZA027WJKZ	J	Power Button Holder	AE
4-5	MSPRCA014WJFW	J	Spring, for Power Button	AB
4-6	XEBSN30P08000	J	Screw, x2	AA
5	*Not Available*	–	20" LCD Panel Unit Ass'y	—
5-1	RLCDTA031WJZZ	J	20" LCD Panel Unit	CZ
5-2	*Not Available*	–	Back Shield Ass'y	—
5-2-1	PSLDMA448WJFW	J	Back Shield	AW
5-2-2	LHLDZA367WJKZ	J	Lamp Holder(Bottom)-Right	AH
5-2-3	LHLDZA368WJKZ	J	Lamp Holder(Bottom)-Left	AH
5-2-4	PMLT-A078WJZZ	J	Light Shielding Spacer, x2	AE
5-2-5	PMLT-A098WJZZ	J	Light Shielding Spacer, x4	AC
5-2-6	PSHEPA205WJZZ	J	Reflection Sheet(Top)	AH
5-2-7	PSHEPA206WJZZ	J	Reflection Sheet(Bottom)	AK
5-2-8	PSPAGA196WJZZ	J	Spacer, x1	AC
5-2-9	TCAUZA031WJZZ	J	Caution Label	AB
⚠ 5-3	KLMP-A034WJZZ	J	Lamp Unit, x6	AX
5-4	LHLDZA365WJKZ	J	Lamp Holder(Top), x2	AL
5-5	PCOVUA035WJZZ	J	Diffusion Plate	AY
5-6	PSHEPA203WJZZ	J	Prism Sheet(H)	BB
5-7	PSHEPA204WJZZ	J	Diffusion Sheet	AM
5-8	PSHEPA208WJZZ	J	Prism Sheet(V)	BB
5-9	PSLDMA484WJZZ	J	Shield Spacer, x1	AK
5-10	PSLDMA485WJZZ	J	Shield Spacer, x1	AD
5-11	PSLDMA486WJZZ	J	Shield Spacer, x1	AE
5-12	PSLDMA487WJZZ	J	Shield Spacer, x1	AD
5-13	PSLDMA488WJZZ	J	Shield Spacer, x1	AF
5-14	PSLDMA489WJZZ	J	Shield Spacer, x2	AE
5-15	QPWBHC584WJPZ	J	Connecting Cord(FPC)	AQ
5-16	XBPS726P05J00	J	Screw, x3	AA
6	*Not Available*	–	Reinforcement Angle Ass'y	—
6-1	LANGTA138WJFW	J	Reinforcement Angle	AM
6-2	PSPAGA219WJZZ	J	Spacer, x1	AC
7	LCHSMA115WJKA	J	Chassis Frame(R)	AL
8	LCHSMA119WJKA	J	Chassis Frame(L)	AK
9	GCOVAA813WJKA	J	Terminal Cover(R)	AL
10	GCOVAA653WJKA	J	Terminal Cover(L)	AM
11	GCOVAA659WJKA	J	Jack Cover	AE
12	HiNDPA912WJSA	J	Model Label	AF
13	RCORFA045WJZZ	J	Core	AG
14	*Not Available*	–	Serial No. Label	—
15	QCNW-C444WJQZ	J	Connecting Cord	AD
16	QCNW-C784WJQZ	J	Connecting Cord	AT
17	QCNW-C785WJQZ	J	Connecting Cord	AQ
18	QCNW-C786WJQZ	J	Connecting Cord	AR
19	QEARZA069WJZZ	J	Grounding Part	AH
20	LX-BZ3442CEF9	J	Screw, x4	AB
21	XBBS740P06000	J	Screw, x4	AA
22	XBBS930P05000	J	Screw, x3	AA
23	XBPS730P06JS0	J	Screw, x2	AA
24	XBPS730P12JS0	J	Screw, x9	AA
25	XEBS940P16000	J	Screw, x12	AB
26	XEBSN30P08000	J	Screw, x6	AA

CABINET AND MECHANICAL PARTS



Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESORIES

	LHLDWA002WJSA	J	Cable Clamp, x1	AD
	LHLDWA037WJSA	J	Cable Holder, x1	AE
⚠	QACCDA037WJPA	J	AC Cord	AV
	QCNWG0003CEPA	J	Antenna Cable	AM
	QCNWGA050WJPZ	J	RGB Cable	AR
	RRMCGA293WJSA	J	Infrared R/C Unit	AT
	TCADEA028WJN1	J	Registration Card	AD
	TiNS-B253WJZZ	J	Operation Manual	AS
⚠	UADP-A065WJPZ	J	AC Adapter	BR

SERVICE JIGS
(USE FOR SERVICING)

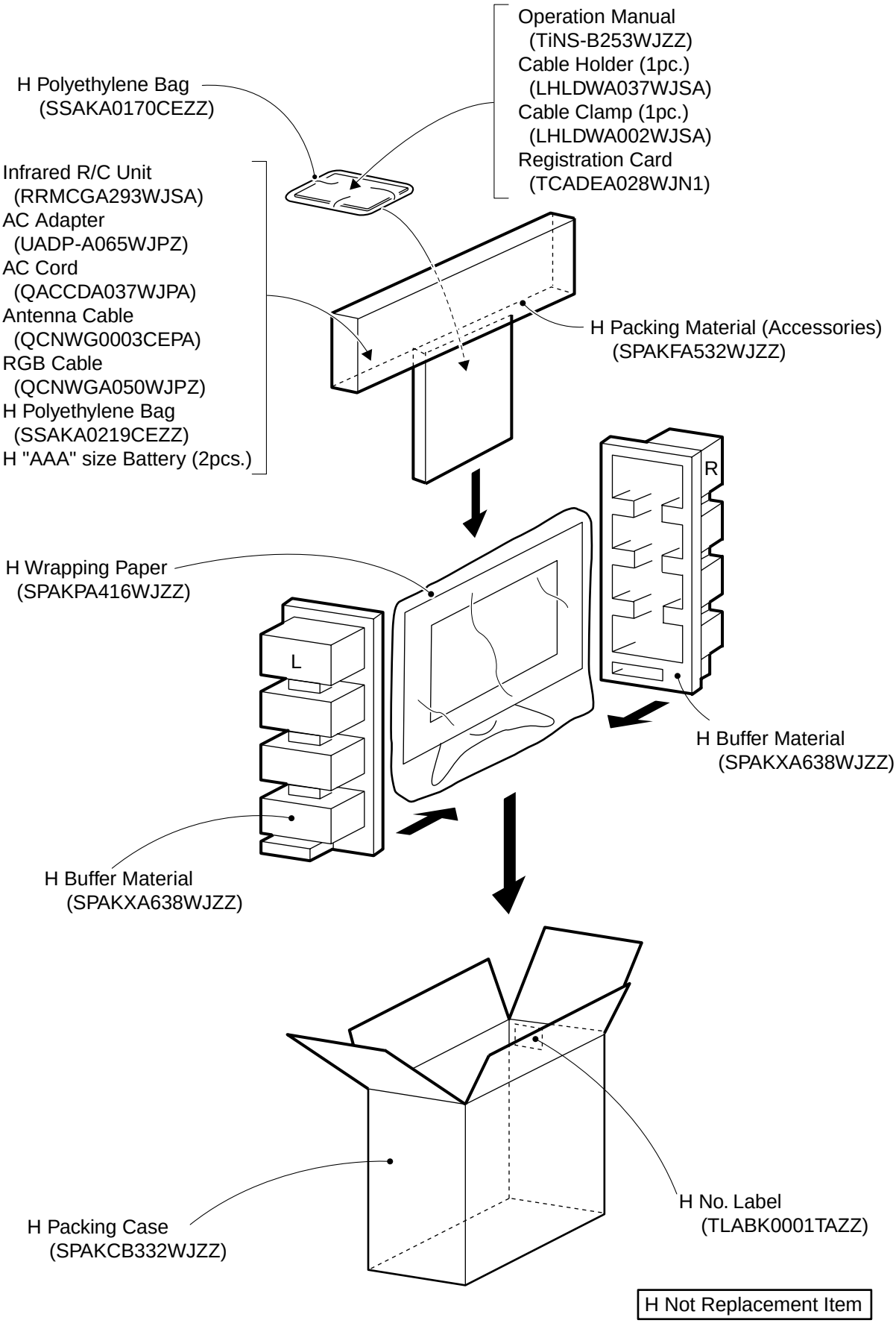
	QCNW-C458WJQZ	J	Extension Cable 80-pin (SC1201-LCD)	AM
	QCNW-C459WJQZ	J	Extension Cable 60-pin (SC2001-SC3403)	AM
	QCNW-C461WJQZ	J	Extension Cable 15-pin (SC701-P3704)	CD

Ref. No.	Part No.	★	Description	Code

PACKING PARTS
(NOT REPLACEMENT ITEM)

	SPAKCB332WJZZ	–	Packing Case	—
	SPAKFA532WJZZ	–	Packing Material (Accessories)	—
	SPAKPA416WJZZ	–	Wrapping Paper	—
	SPAKXA638WJZZ	–	Buffer Material	—
	SSAKA0170CEZZ	–	Polyethylene Bag	—
	SSAKA0219CEZZ	–	Polyethylene Bag	—
	TLABK0001TAZZ	–	No. Label	—

PACKING OF THE SET



H Not Replacement Item

SHARP

TQ1774-S
Jul. 2004 Printed in Japan

Design and Production Information
Design : Japan
Production : Japan

MI. KG

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan