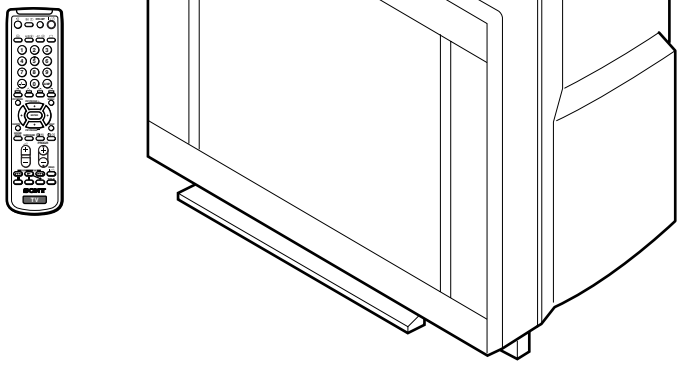
Self Diagnosis
Supported model

SERVICE MANUAL AG-3E CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-EX29K94	RM-965	Korea	SCC-U63A-A				
KV-EX34K94	RM-965	Korea	SCC-U63B-A				



TRINITRON ® COLOR TV

SONY ®

SPECIFICATIONS

	KV-EX29K94	KV-EX34K94	Note
Power requirements	110-220 V AC, 60 Hz		
Power consumption (W)	Indicated on the rear of the TV		
Television system	M		
Color system	NTSC3.58		
Stereo/Bilingual system	Korean Stereo		
Channel coverage	VHF: 2 to 13 UHF: 14 to 69/ CATV: 1 to 125		
Antenna)	75-ohm external terminal		
Audio output (Speaker)	8W + 8W		
Number of terminal			
(Video)	Input: 4 Output: 1		Phono jacks; 1 V_{P-P}, 75 ohms
(Audio)	Input: 4 Output: 1		Phono jacks; 500 mVrms
(S Video)	Input: 2		Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms
(Component Video) (DVD) IN	Input: 1		Phono jacks Y : 1 Vp-p, 75 ohms, sync negative C_B : 0.7 Vp-p, 75 ohms C_R : 0.7 Vp-p, 75 ohms Audio : 500 mVrms
(Headphones)	Output: 1		Stereo minijack
Picture tube	29 in	34 in	
Tube size (cm)	72	86	Measured diagonally
Screen size (cm)	68	80	Measured diagonally
Dimension (w/h/d, mm)	772 x 576 x 516	895 x 674 x 590	
Mass (kg)	51	79	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.
The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

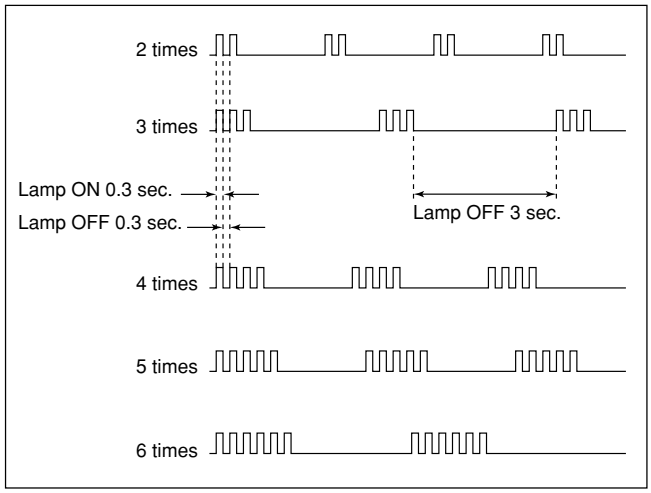
When an error occurs, the STANDBY/TIMER lamp will flash a number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occured if the screen displays a "0".

Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	• Power cord is not plugged in. • Fuse is burned out F1601 (F1 Board)	• Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
• +B overcurrent (OCP)	2 times	002:000 or 002:001~255	• H.OUT Q6807 is shorted. • H.IN Q6810 is shorted. (D board)	• Power does not come on. • Load on power line is shorted.
• +B overvoltage (OVP)	3 times	003:000 or 003:001~255	• PH 6602 faulty. • 10.5V is not supplied. (D board)	• Power does not come on.
• Vertical deflection failure	4 times	004:000 or 004:001~255	• V.OUT IC6800 faulty D6816 faulty D6817 faulty D6824 faulty R6852 open R6851 open (D board)	• Vertical deflection pulse is stopped. • Vertical size is too small. • Vertical deflection stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~255	• G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC9001, 9002, 9003 are faulty. (C board) • IC8306 (A board) and IC4301 (A board) are faulty.	• No raster is generated. • CRT cathode current detection reference pulse output is small.
• Horizontal deflection failure	6 times	006:000 or 006:001~225	• C6831 is open circuit. (D board)	• H pulse output is too high.
• Micro reset	—	101:00 or 101:001~225	• CRT Discharge (C Board) • Static discharge • External noise	• Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

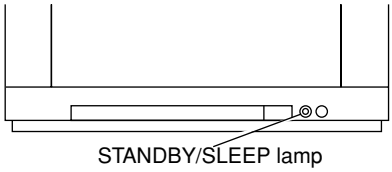
Note 1: Refer to screen (G2) Adjustment in section 6-5 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count*
+B overcurrent	2 times
+B overvoltage	3 times
V deflection stop	4 times
White balance failure	5 times
Horizontal Deflection Failure	6 times

* One flash count is not used for self-diagnostic.



3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurances of failure for confirmation on the screen:

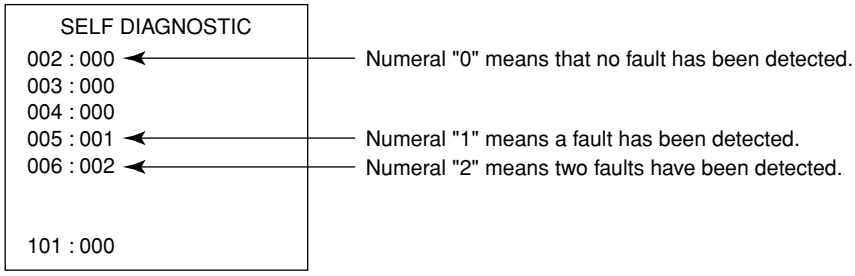
[To Bring Up Screen Test]
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel 5 ➡ Sound volume - ➡ Power ON

⇧

Note that this differs from entering the service mode (mode volume +).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

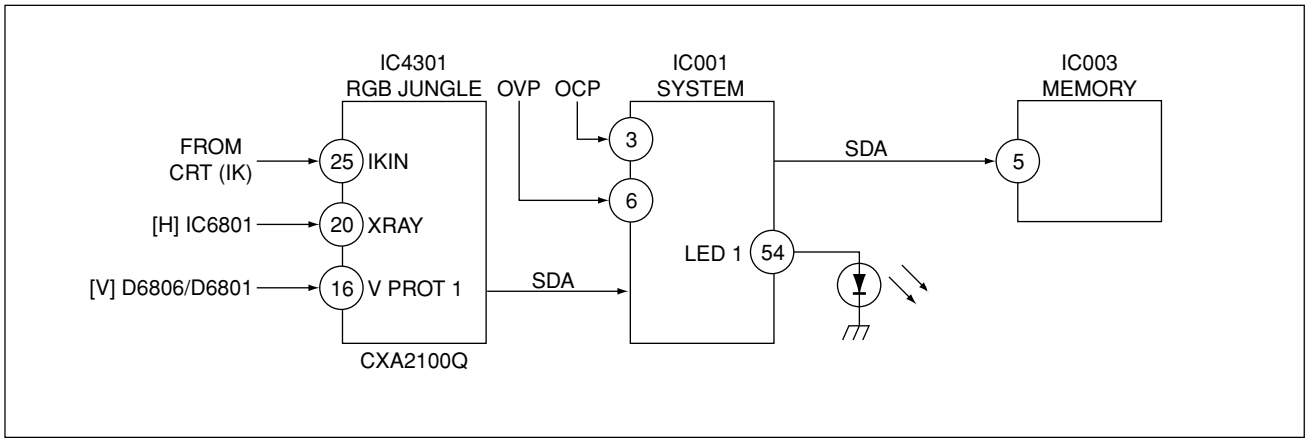
Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]
To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT

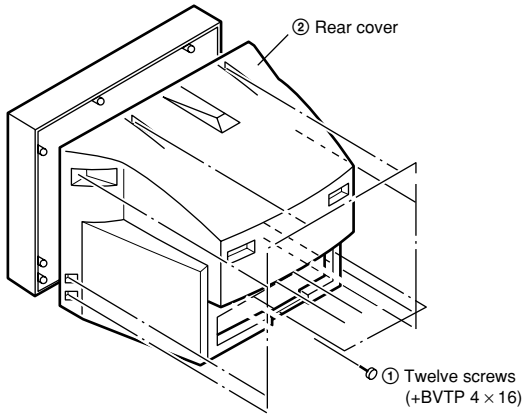


+B overcurrent (OCP)	Occurs when an overcurrent on the +B(135) line is detected by Q6610 and Q6609. If Q6610 and Q6609 go to ON, the voltage to the pin3 of IC001 go to UP. The unit will automatically turn off.
+B overvoltage (OVP)	Occurs when an overvoltage on the +B(135) line is detected by D6635, Q6611 and Q6612. If Q6611 and Q6612 go to ON, the voltage to pin6 of IC001 go to UP. The unit will automatically turn off.
Vertical deflection failure	Occurs when an absence of the vertical deflection pulse is detected by Q6811, Q6819, Q6820, Q6821 and D6801. Shut down the power supply.
White balance failure	If the RGB levels do not balance or become low level within 5 seconds. This error will be detected by IC4301. TV will stay on, but there will be no picture.
High voltage protector of Horizontal Deflection	Occurs when an overvoltage of horizontal pulse is detected by D6809 and IC6801. If the voltage of 7 pin of IC6801 goes to High, the voltage to pin20 of IC4301 go to UP. The unit will automatically turn off.

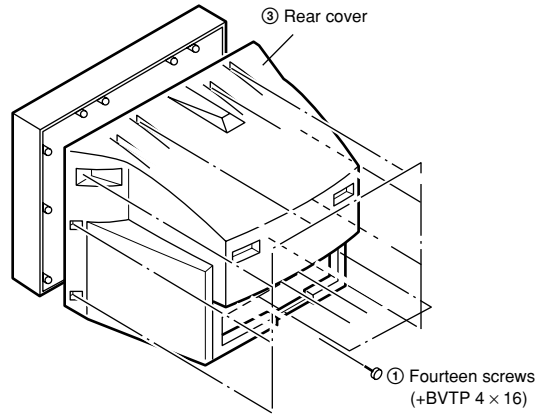
SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

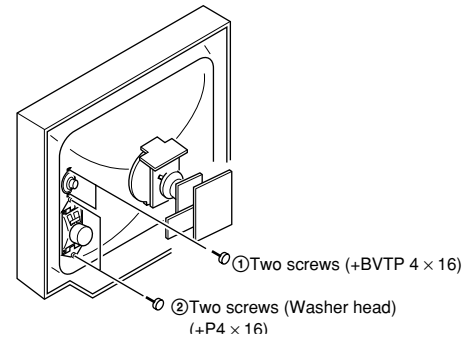
(i) KV-EX29 MODEL



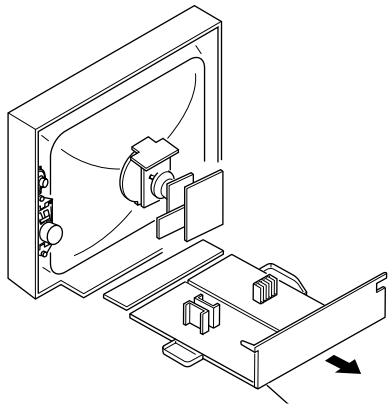
(ii) KV-EX34 MODELS



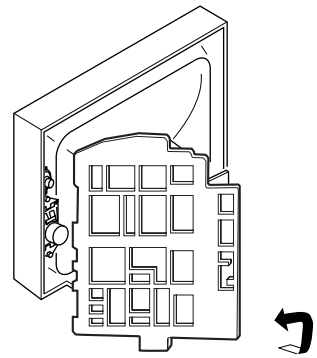
2-2. SPEAKER REMOVAL



2-3. CHASSIS ASSY REMOVAL



2-4. SERVICE POSITION



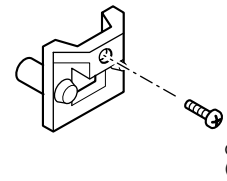
Note:

1. Disconnect the DGC connector from CN6603 (D board)
2. Disconnect Lead Assy Speaker (R) from Relay.
3. Undress necessary wires that creates tension while placing the chassis into Service Position.

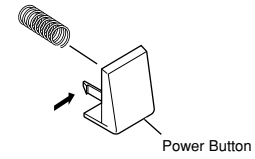
2-5. REPLACEMENT OF PARTS

For Power Button removal, push the claw in the direction of the arrow and remove.

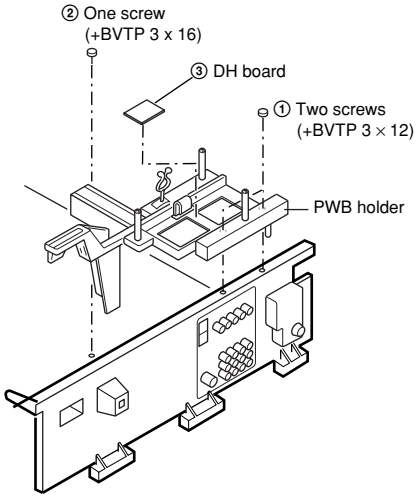
2-5-1. LIGHT GUIDE



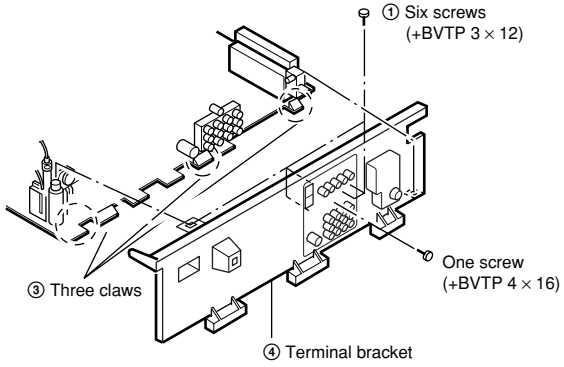
2-5-2. POWER BUTTON



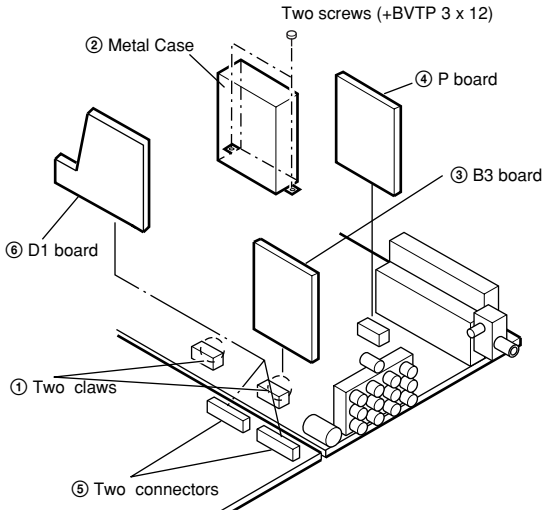
2-6. PWB AND DH BOARDS REMOVAL



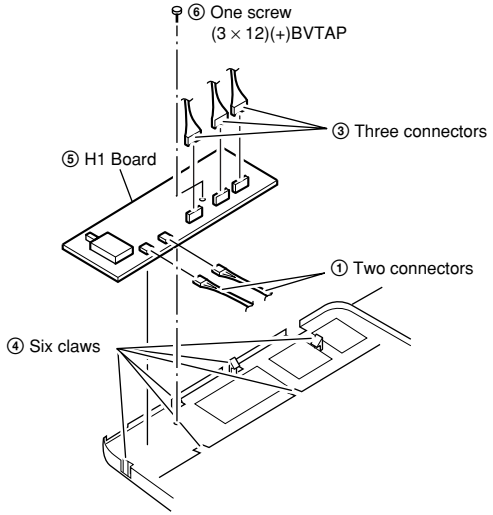
2-7. TERMINAL BRACKET REMOVAL



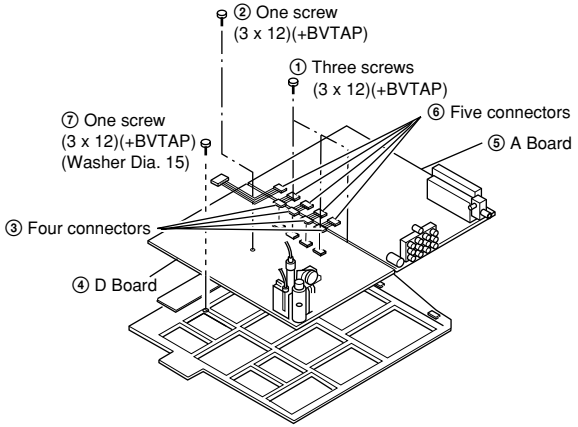
2-8. B3, P AND D1 BOARDS REMOVAL



2-9. H1 BOARD REMOVAL



2-10. A AND D BOARDS REMOVAL



2-11. PICTURE TUBE REMOVAL

Note:

i) When removing the Nut, Locking; first make sure to hold the screw, special CRT with a spanner (diameter 6) while opening the Nut, Locking using a spanner. Then proceed to remove the Nut, special CRT using a torque driver.

ii) Remove all the necessary CRT supports located on top left and right, bottom left and right prior to removing the CRT.

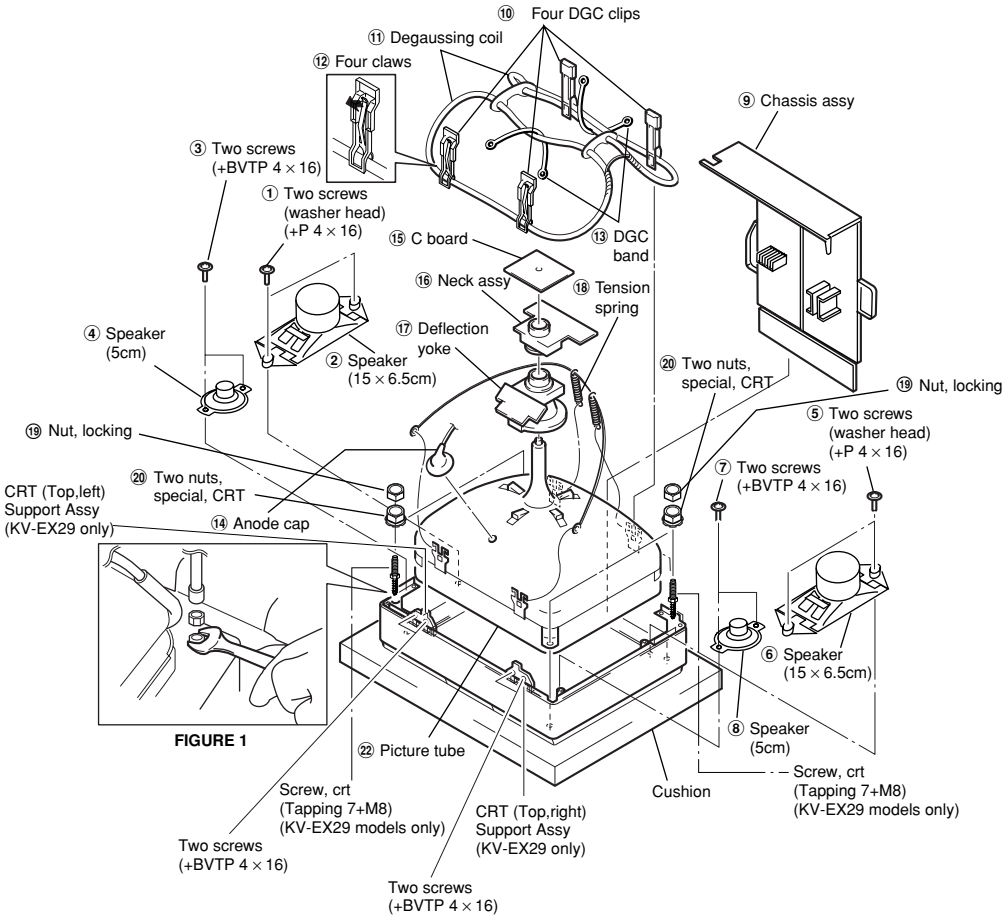
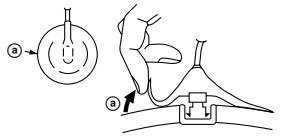


FIGURE 1

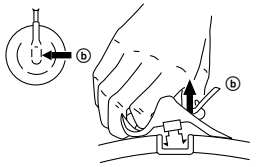
• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

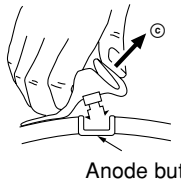
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



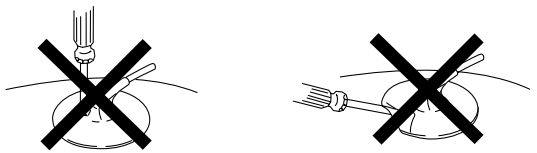
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Do not damage the surface of anode-caps with sharp shaped objects.

② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.

③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.

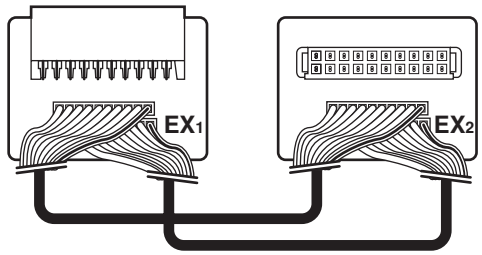


SECTION 3
SERVICE JIG

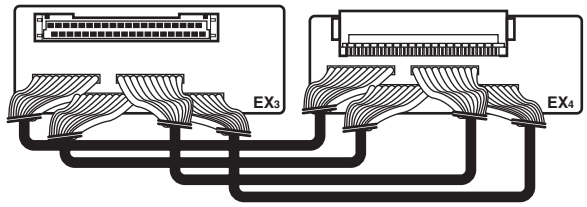
3-1. JIGS REQUIRED FOR SERVICING

REF NO.	DESCRIPTION	QUANTITY	PART NO.	REMARK
J-1	TOOL (20P), SERVICE	1	3-702-763-01	For A to V2 board extension For A to P board extension
J-2	TOOL (40P), SERVICE	1	3-702-764-01	For B3 to A board extension
J-3	TOOL (30P), SERVICE	2	3-702-773-01	For D to D1 board extension

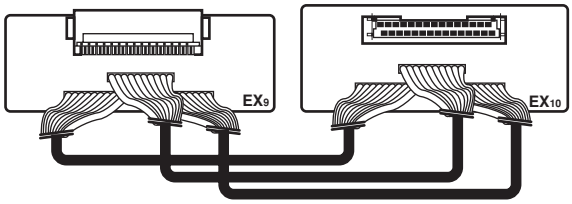
J-1



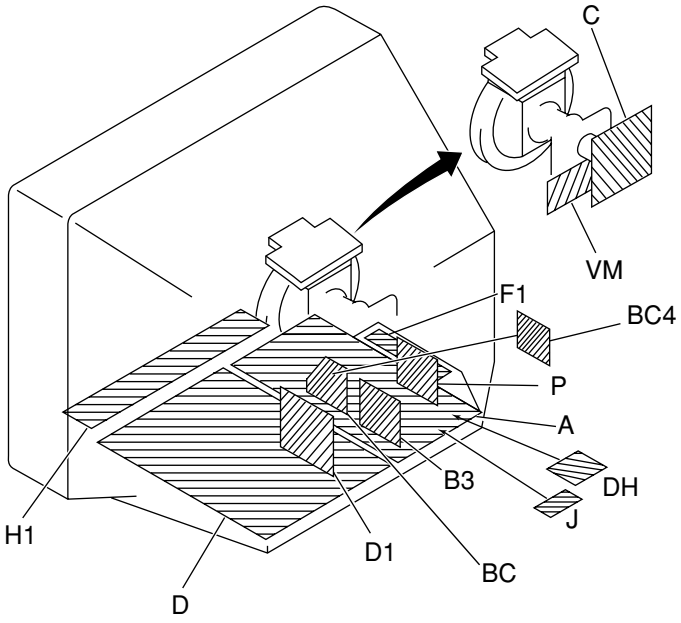
J-2



J-3



SECTION 4
CIRCUIT BOARDS LOCATION



SECTION 5
ADVANCE OPERATION

5-1. "RESET" FUNCTION

1. Purpose

If a customer faces some setting problem that cannot be solved, using the "RESET" function some items will be reset to its original setting (shipping condition)

2. How to Operate

There are 2 ways to access to the "RESET" Function:-

a) By pressing "RESET" button on the Remote Commander.
b) By pressing "MENU" button or "SELECT" button (for non-menu models) on the Front Key Input and hold it down for 5 seconds.

3. Subsequent of Operation

Sequential to the resetting operation (either methods being used in No. 2), TV set would shut down once and automatically turn on again. The power-off duration is expected to be about 500msec. An OSD message, "RESET" tentatively will be displayed for 10 sec after IK status gets stable.
As a result, some items will be reset to an initial condition (shipment condition) wheareas some other remains at the last selection by user.

Items that remains at the last selection by user

Program No., Favourite CH Setup, PIC rotation, OSD Language, Fine tuning, TV System, Skip

Reset Items

Video input	RF	ECO mode	OFF
Volume	30	Antenna sensitivity	HIGH*
DRC-MF	DRC1050	Stereo mode	STEREO
Picture mode	DYNAMIC	Bilingual mode	MAIN*
Sound mode	DYNAMIC	Child lock	OFF*
Surround mode	OFF	Wide mode	OFF
Multi picture(PIP)	OFF	Game mode	OFF
PIP position	Bottom-right	Teletext mode	OFF (not used for these models)
Favourite CH mode	AUTO	Sleep timer	OFF
OSD recall	OFF	Wake-up timer	OFF
Intelligent volume	OFF	Sound muting	OFF

*= only when in RF mode

SECTION 6
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:
PICTURE control ..... normal
BRIGHTNESS control ..... normal
Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :
- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

6-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Position neck assy as shown in Fig6-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side. (See Figures 6-1 through 6-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 6-2.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 6-4.)

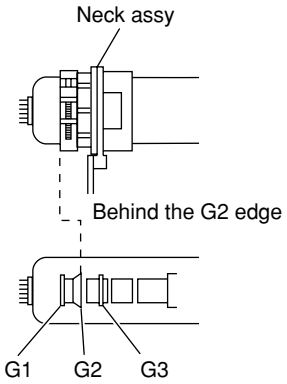


Fig. 6-1

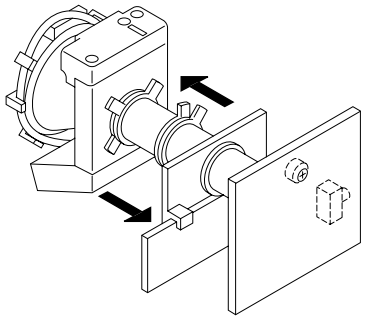


Fig. 6-2

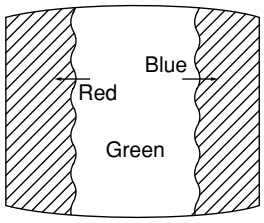


Fig. 6-3

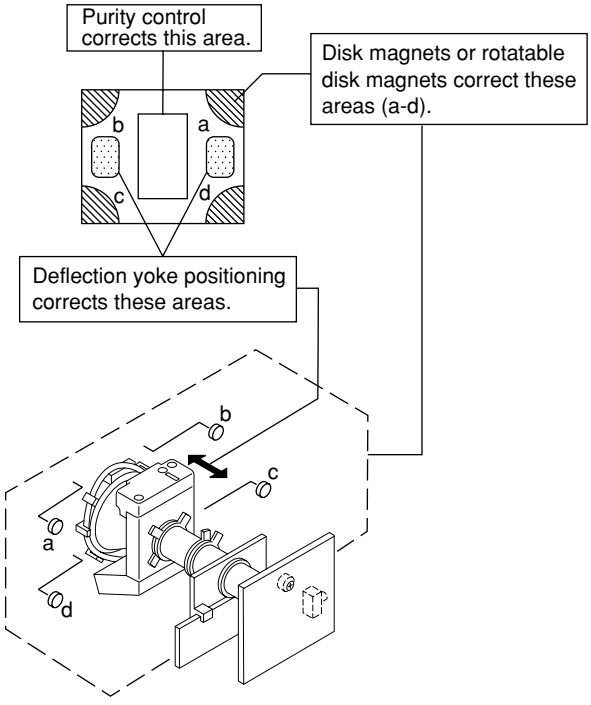


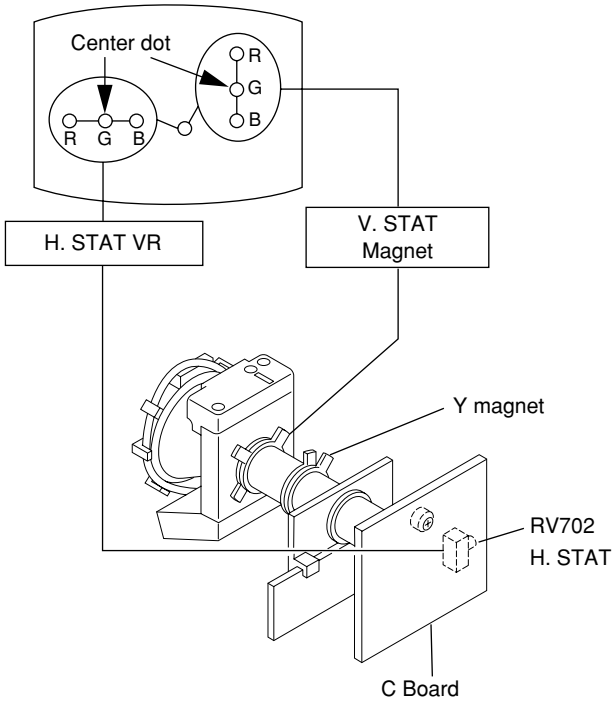
Fig. 6-4

6-2. CONVERGENCE ADJUSTMENT

Preparation :

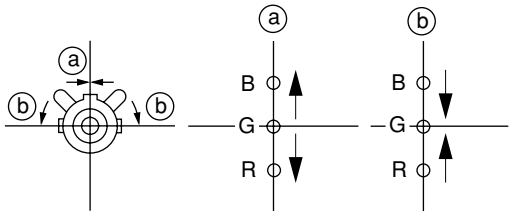
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the PICTURE 70% and BRIGHTNESS 0%.
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

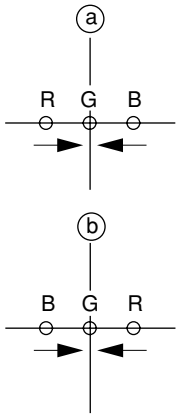


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. Adjust Horizontal Trapezoid with “DAC 04 HTR” in Service Mode to make H-Trapezoid distortion best.
4. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

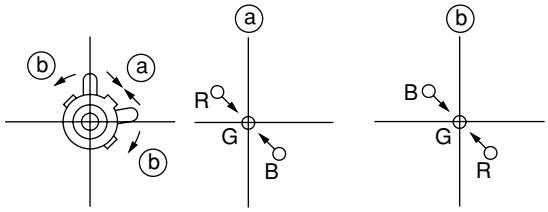
① V. STAT

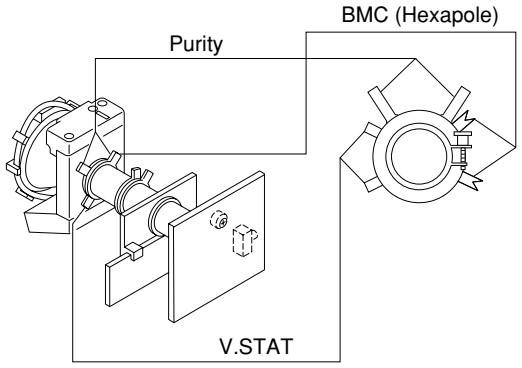


② H. STAT VR

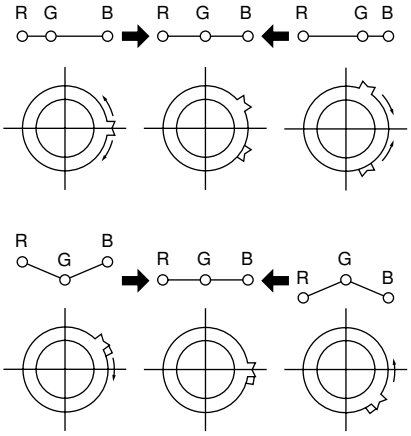


③





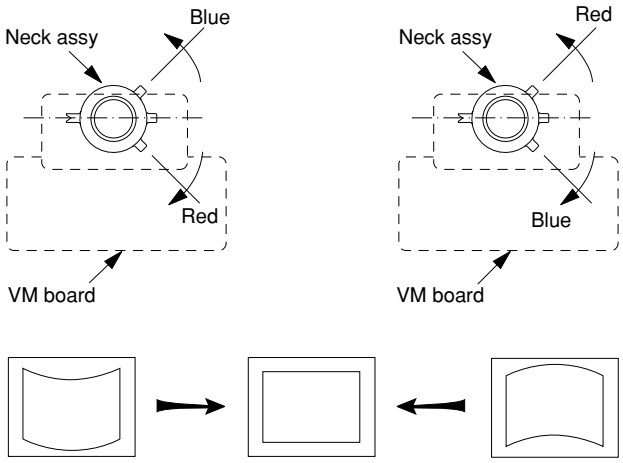
④ BMC (Hexapole) Magnet.
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .

2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

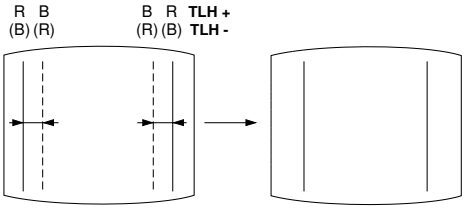
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH convergence piece)

① Receive the dot/hatch pattern signal and adjust picture quality by the menu.

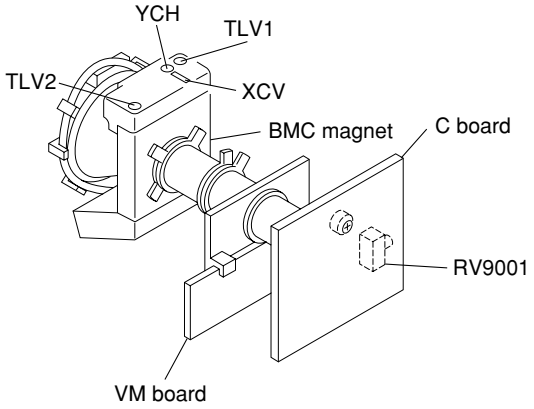
② Correct horizontal mis-convergence of red and blue of both sides on the X axis.
When red is outside insert TLH convergence piece to right side (TLH +) views from DY neck. And when blue is outside, insert it to left side (TLH –) and take both sides.



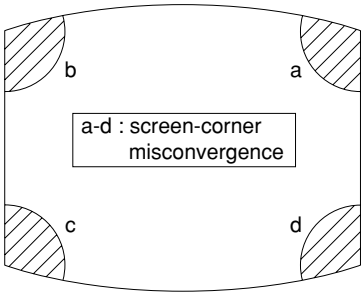
2. Adjust XCV core.
To able to become balance of XCV on the X axis well.

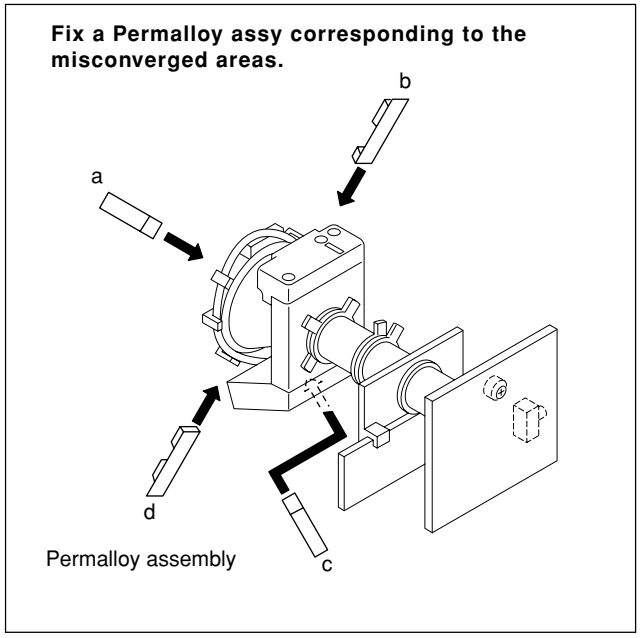
3. Adjust V-TILT.
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

4. Adjust YCH.
Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



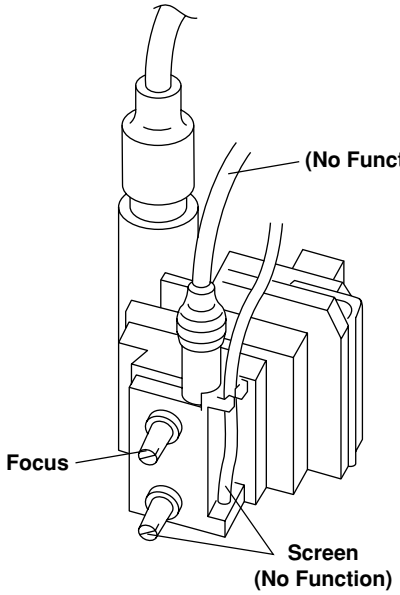


6-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set "A/V CONTROL" to "STANDARD".
(3) Adjust FOCUS VR so that the center of the screen becomes just focus.
(4) Change the receiving signal to white pattern and blue back.
(5) Confirm MAGENTA RING is not noticeable. In case MAGENTA RING is obvious, adjust FOCUS VR to balance between MAGENTA RING and FOCUS adjustment.



FLYBACK TRANSFORMER (T6803)

6-4. NECK ASSY TWIST ADJUSTMENT

(1) Receive dot/hatch pattern DRC-MF, DRC1050, DYNAMIC.
(2) Turn FOCUS VR fully counter-clockwise.
(3) Confirm the dot shape at the screen center. (Fig. 6-4)
(4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

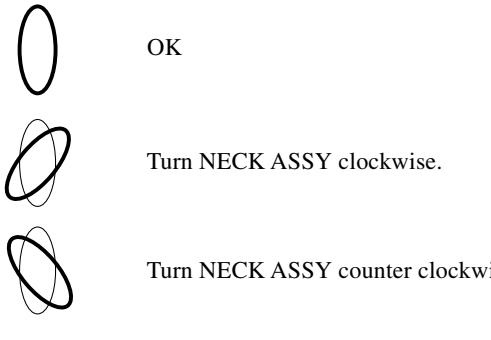
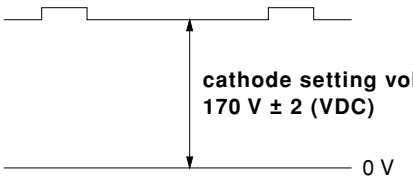


Fig. 6-4

6-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
5) Whilst watching the picture, adjust the screen VR [RV9002] located on the C board to the point just before the retrace lines disappear (to the point before cut-off)



2. WHITE BALANCE ADJUSTMENT

1) Set to Service Mode (Refer Section 7-1: ADJUSTMENTS WITH COMMANDER).
2) Input white raster signal.
3) Set the following condition.
   PICTURE minimum, BRIGHTNESS 50%
4) Select GCT (WHB 7) and BCT (WHB 8) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
5) Set the PICTURE to maximum.
6) Select GDR (WHB 4) and BDR (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
7) Write into the memory by pressing [MUTING] then [0].

SECTION 7
CIRCUIT ADJUSTMENTS

7-1. ADJUSTMENTS WITH COMMANDER

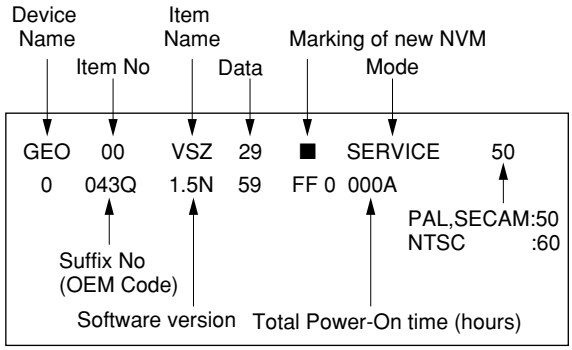
Service adjustments to this model can be performed using the supplied Remote Commander RM-965.

a. ENTERING SERVICE MODE

With the unit on standby

→ [DISPLAY] → [5] → [VOL (+)] → [POWER]

The screen display is :



b. CANCELLATION OF SERVICE MODE

Set the standby condition (Press [POWER] button on the commander), then press [POWER] button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

1) Set to Service Mode.
2) Press [1] (UP) and [4] (DOWN), to select the adjustment item Name.
3) Press [3] or [6] to raise/lower the data value.
4) Press [MUTING] button to indicate WRITE on the screen.
5) Press [0] button to write into memory.

d. OTHER FUNCTION VIA REMOTE COMMANDER

[7], [0]	All the data becomes the values in memory.
[8], [0]	All goes to the standard state.
[5], [0]	Service data initialization (Be sure not to use usually.)
[DISPLAY], [0]	Write 50Hz adjustment data to 60Hz, or vice versa.
[2], [0]	Copy and write all data.
[Cursor +/–]	Skip category (device) to caategory (device)

example : GEO 00 VSZ
↕
DAC 00 HCT

e. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again to confirm adjustments were made.

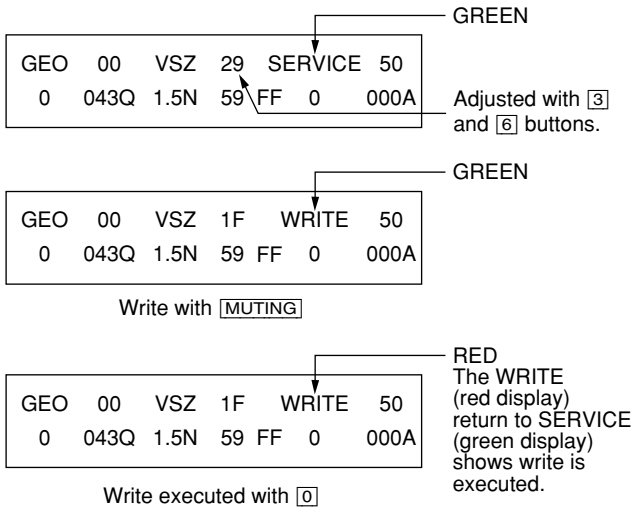
7-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

This explanation uses V-size as an example.

1. Select “GEO 00 VSZ” with the [1] and [4] buttons.
2. Raise/lower the data with the [3] and [6] buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Press [MUTING] button to indicateWRITE on screen. (The display from SERVICE (green display) to WRITE (green display).
5. Execute the writing with the [0] button. (The WRITE display changes to red color while executing and then back to SERVICE (green display).
6. The WRITE execution is completed.

Example on screen display :-



Use the same method for all Items.

Note : 1. In [WRITE], the data for all items are written into memory together.
2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table **FOR KV-EX29 MODEL ONLY**

TVG	Functionality		Initial	Range	Function							Device Name
						50			60			
Category	No.	Name				50	50NC	50VC	60	60 NC	60VC	
GEO	00	VSZ	21	3F	V SIZE		1A	1A		1C	1C	CXA2100AQ
	01	VPS	27	3F	V POSITION		25	25		22	22	
	02	VLN	5	0F	V LINEARITY		06	06		06	06	
	03	SCO	0A	0F	S CORRECTION		09	09		09	09	
	04	HSZ	1E	3F	H SIZE		1E	1E		1B	1B	
	05	HPS	2F	3F	H POSITION		24	22		**1B**	1A	
	06	PAP	28	3F	PIN AMP		2D	2F		30	33	
	07	UPN	25	3F	UPPER CORNER PIN		24	28		26	29	
	08	LPN	23	3F	LOWER CORNER PIN		23	26		24	27	
	09	TRZ	0C	0F	TRAPEZIUM		0B	0B		0A	0A	
	0A	AGL	0A	0F	AFC ANGLE		09	09		09	09	
	0B	BOW	6	0F	AFC BOW		0A	0A		0A	0A	
	0C	**LBL**	12	3F	LEFT H BLANKING		**16**	**16**		**21**	**21**	
	0D	**RBL**	2C	3F	RIGHT H BLANKING		**1B**	**1B**		**1C**	**1C**	
	0E	**MPN**	0	3	MIDDLE PIN DISTORTION COMPENSATION		00	00		00	00	
	0F	**UVL**	0	0F	UPPER V LINEARITY	00			00			
	10	**LVL**	0	0F	LOWER V LINEARITY	00			00			
	11	**HCP**	0	3	HORIZONTAL HIGH VOLTAGE COMPENSATION		00	00		00	00	
	12	**VCP**	1	3	VERTICAL HIGH VOLTAGE COMPENSATION		00	00		00	00	
	13	VAS	2F	3F	V ASPECT		**2F**	2D		**2F**	2D	
	14	VSC	1F	3F	V SCROLL		**1F**	1D		**1F**	1E	
	15	**USC**	0	1	UNDER-SCAN MODE ON/OFF		00	01		00	01	
	16	**VBW**	0	3	V BLANKING WIDTH CONTROL		00	02		00	00	
	17	**AT1**	2	3	AKB REFERENCE TIMING		02	01		02	00	
	18	CPY	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA							

Adjustment Item Table **FOR KV-EX34 MODEL ONLY**

TVG	Functionality		Initial	Range	Function							Device Name
						50			60			
Category	No.	Name				50	50NC	50VC	60	60 NC	60VC	
GEO	00	VSZ	21	3F	V SIZE		26	26		26	26	CXA2100AQ
	01	VPS	27	3F	V POSITION		26	26		26	26	
	02	VLN	5	0F	V LINEARITY		08	08		08	08	
	03	SCO	0A	0F	S CORRECTION		08	08		08	08	
	04	HSZ	1E	3F	H SIZE		20	20		20	20	
	05	HPS	2F	3F	H POSITION		35	35			2B	
	06	PAP	28	3F	PIN AMP		1E	1E		1E	1E	
	07	UPN	25	3F	UPPER CORNER PIN			28		24	28	
	08	LPN	23	3F	LOWER CORNER PIN		24	24		24	24	
	09	TRZ	0C	0F	TRAPEZIUM		08	08		08	08	
	0A	AGL	0A	0F	AFC ANGLE		0B	0B		0B	0B	
	0B	BOW	6	0F	AFC BOW		0A	0A		0A	0A	
	0C	**LBL**	12	3F	LEFT H BLANKING		16	16		21	21	
	0D	**RBL**	2C	3F	RIGHT H BLANKING		1B	1B		1C	1C	
	0E	**MPN**	0	3	MIDDLE PIN DISTORTION COMPENSATION		00	00		00	00	
	0F	**UVL**	0	0F	UPPER V LINEARITY	00			00			
	10	**LVL**	0	0F	LOWER V LINEARITY	00			00			
	11	**HCP**	0	3	HORIZONTAL HIGH VOLTAGE COMPENSATION		00	00		00	00	
	12	**VCP**	1	3	VERTICAL HIGH VOLTAGE COMPENSATION		00	00		00	00	
	13	VAS	2F	3F	V ASPECT		**2F**	2F		**2F**	2F	
	14	VSC	1F	3F	V SCROLL		**1F**	1F		**1F**	22	
	15	**USC**	0	1	UNDER-SCAN MODE ON/OFF		00	01		00	01	
	16	**VBW**	0	3	V BLANKING WIDTH CONTROL		00	02		00	00	
	17	**AT1**	2	3	AKB REFERENCE TIMING		02	01		02	00	
	18	CPY	0	1	COPY THE GEO DATA TO ALL 50/60HZ NVM AREA							

Adjustment Item Table

FOR KV-EX29 MODEL ONLY

TVG	Functionality		Initial	Range	Function										Device Name
						50			60			Eco Mode			
Category	No.	Name				50	50NC	50VC	60	60NC	60VC	Eco OnNC	Eco OffNC	Eco ONVC	Eco OffVC	
DAC	00	HCT	33	FF	H CENTER	CC			CC							MB88141
	01	HLN	27	3F	H LINEARITY		2B	2B		2D	2D					
	02	MDP	26	3F	MIDDLE PIN		**1F**	**1F**		**1F**	**1F**					
	03	CCP	37	3F	LOWER CORNER PIN		**13**	**04**		**13**	**04**					
	04	HTR	26	3F	HORIZONTAL TRAPEZIUM		1F	1F		1F	1F					
	05	PBA	1F	3F	PIN UNBALANCE		16	16		16	16					
	06	**DPH**	1F	3F	DF PHASE		1F	1F		1F	1F					
	07	**QPH**	19	3F	QP PHASE		19	19		19	19					
	08	**QAC**	23	3F	QP AMPLITUDE		23	23		23	23					
	09	**QDC**	20	3F	QP DC LEVEL		20	20		20	20					
	0A	**QDV**	1F	3F	QP V MODULATION		1F	1F		1E	1E					
	0B	**QAV**	1A	3F	QP AMPLTUDE MODULATION		1A	1A		1D	1D					
	0C	**ABC**	0	FF	ABL D/A CONTROL							00	00	7E	7E	
	0D	CPY	0	1	COPY THE DAC DATA TO ALL 50/60Hz NVM AREA											

FOR KV-EX29 MODEL ONLY

	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
WHB	00	**CBO**	7	0F	DC OFFSET CANCELLER FOR Cb1	0A	CXA2100QA
	01	**CRO**	7	0F	DC OFFSET CANCELLER FOR Cr1	0A	
	02	SBR	18	3F	SUB BRIGHTNESS CONTROL	1F	
	03	**RDR**	29	3F	R DRIVE	29	
	04	GDR	25	3F	G DRIVE	24	
	05	BDR	26	3F	B DRIVE	25	
	06	**RCT**	1D	3F	R CUTOFF	1D	
	07	GCT	12	3F	G CUTOFF	06	
	08	BCT	31	3F	B CUTOFF	25	
	09	**SBO**	29	3F	SUB BRIGHTNESS OFFSET	20	
	0A	**RDO**	1F	3F	R DRIVE OFFSET	1F	
	0B	**GDO**	1A	3F	G DRIVE OFFSET	1A	
	0C	**BDO**	1A	3F	B DRIVE OFFSET	1B	
	0D	**RCO**	1F	3F	R CUTOFF OFFSET	1F	
	0E	**GCO**	1E	3F	G CUTOFF OFFSET	22	
	0F	**BCO**	15	3F	B CUTOFF OFFSET	16	

Adjustment Item Table

FOR KV-EX34 MODEL ONLY

TVG	Functionality		Initial	Range	Function										Device Name
						50			60			Eco Mode			
Category	No.	Name				50	50NC	50VC	60	60NC	60VC	Eco OnNC	Eco OffNC	Eco ONVC	Eco OffVC	
DAC	00	HCT	33	FF	H CENTER	59			4A							MB88141
	01	HLN	27	3F	H LINEARITY		26	26		26	26					
	02	**MDP**	26	3F	MIDDLE PIN		**19**	**19**		**19**	**19**					
	03	**CCP**	37	3F	LOWER CORNER PIN		**00**	**00**		**00**	**00**					
	04	HTR	26	3F	HORIZONTAL TRAPEZIUM		1F	1F		1F	1F					
	05	PBA	1F	3F	PIN UNBALANCE		16	16		16	16					
	06	**DPH**	1F	3F	DF PHASE		22	22		22	22					
	07	**QPH**	19	3F	QP PHASE		12	12		12	12					
	08	**QAC**	23	3F	QP AMPLITUDE		24	24		24	24					
	09	**QDC**	20	3F	QP DC LEVEL		1E	1E		1E	1E					
	0A	**QDV**	1F	3F	QP V MODULATION		28	28		29	29					
	0B	**QAV**	1A	3F	QP AMPLTUDE MODULATION		1E	1E		20	20					
	0C	**ABC**	0	FF	ABL D/A CONTROL							00	00	7E	7E	
	0D	CPY	0	1	COPY THE DAC DATA TO ALL 50/60Hz NVM AREA											

FOR KV-EX34 MODEL ONLY

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
WHB	00	**CBO**	7	0F	DC OFFSET CANCELLER FOR Cb1	0A	CXA2100QA
	01	**CRO**	7	0F	DC OFFSET CANCELLER FOR Cr1	0A	
	02	SBR	18	3F	SUB BRIGHTNESS CONTROL	1F	
	03	**RDR**	29	3F	R DRIVE	29	
	04	GDR	25	3F	G DRIVE	24	
	05	BDR	26	3F	B DRIVE	25	
	06	**RCT**	1D	3F	R CUTOFF	1D	
	07	GCT	12	3F	G CUTOFF	20	
	08	BCT	31	3F	B CUTOFF	25	
	09	**SBO**	29	3F	SUB BRIGHTNESS OFFSET	1C	
	0A	**RDO**	1F	3F	R DRIVE OFFSET	1F	
	0B	**GDO**	1A	3F	G DRIVE OFFSET	1D	
	0C	**BDO**	1A	3F	B DRIVE OFFSET	1C	
	0D	**RCO**	1F	3F	R CUTOFF OFFSET	1F	
	0E	**GCO**	1E	3F	G CUTOFF OFFSET	1B	
	0F	**BCO**	15	3F	B CUTOFF OFFSET	1B	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common			50			60			Picture Mode				Eco Mode				Device Name
Category	No.	Name					50	60	TV	Video	DVD	TV	Video	DVD	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	Eco OnNC	Eco OffNC	Eco ONVC	Eco OffVC	
SAJ	00	**PIC**	3F	3F	PICTURE CONTROL										3F	32	28						CXA2100AQ (KV-EX29)
	00	**PIC**	3F	3F	PICTURE CONTROL										3B	32	28						(KV-EX34)
	01	**BRT**	1F	3F	BRIGHTNESS CONTROL										23	1F	1B						
	02	**COL**	27	3F	COLOR CONTROL										2B	1F	1F						(KV-EX29)
	02	**COL**	27	3F	COLOR CONTROL										2E	1F	1F						(KV-EX34)
	03	**HUE**	1F	3F	HUE CONTROL										1F	1F	1F						
	04	**SHP**	24	3F	SHARPNESS CONTROL										22	1F	1D						
	05	**VML**	3	3	VM LEVEL										03	02	01	02					(KV-EX29)
	05	**VML**	3	3	VM LEVEL										03	03	01	02					(KV-EX34)
	06	**DYC**	1	1	DYNAMIC COLOR ON/OFF										01	01	00	01					
	07	**CTM**	0	1	COLOR TEMPERATURE FOR DYNAMIC COLOR										00	00	00	00					
	08	**CAX**	2	3	COLOR MATRIX SPECIFICATION		02	01															
	09	**GMA**	3	3	GAMMA CORRECTION										02	02	03	02					
	0A	**DCT**	1	3	DC TRANMISSION CONTROL										01	01	00	01					
	0B	**DPL**	1	3	AUTO PEDESTAL LEVEL CONTROL										02	01	00	01					
	0C	**ABM**	0	3	ABL MODE CONTROL										01	00	00	00					
	0D	**ABT**	0	3	ABL CURRENT DETECTION Vth CONTROL														02	00	02	00	
	0E	**CLO**	9	0F	COLOR OFFSET				09	08		09	09										
	0F	**CLW**	3	7	COLOR STEP WIDTH TO THE CHANGE OF S/N	03																	
	10	**HUO**	9	0F	HUE OFFSET				08	08		09	09										
	11	**SHO**	7	1F	SHARPNESS OFFSET				0F	14	0F	09	0F	0F									(KV-EX29)
	11	**SHO**	7	1F	SHARPNESS OFFSET				0F	14	0F	0C	0F	0F									(KV-EX34)
	12	**SHW**	1	7	SHARPNESS STEP WIDTH TO THE CHANGE OF S/N	01																	
	13	**BRO**	7	0F	BRIGHTNESS OFFSET														07	07	07	07	

	Functionality		Initial	Range	Function	Common																Device Name
							50			60			Picture Mode					Eco Mode				
Category	No.	Name					TV	Video	DVD	TV	Video	DVD	Dynamic	Standard/ Drama	Hi-Fine/ Soft	Personal	Eco OnNC	Eco OffNC	Eco ONVC	Eco OffVC	
JGL	00	**PON**	1	1	RGB AND AKB REFERENCE PULSE OUTPUT ON/OFF	01															CXA2100AQ
	01	**RGB**	7	7	RGB OUTPUT SELECTION	07															
	02	**AGG**	0	3	AGING MODE SELECTION	00															
	03	**DPS**	0	1	Y/C DELAY LINE PASS MODE SWITCH	00															
	04	**BBT**	3	3	RGB BOTTOM LIMITTER CONTROL	03															
	05	**LML**	0	3	RGB AMPLITUDE LIMITTER CONTROL	00															
	06	**PAB**	0F	0F	DC LEVEL FOR PEAK ABL	0F															
	07	**SCO**	0C	0F	SUB PICTURE CONTROL	07															(KV-EX29)
	07	**SCO**	0C	0F	SUB PICTURE CONTROL	08															(KV-EX34)
	08	**LV2**	7	0F	RBG LEVEL FOR RGB2	07															
	09	**SFO**	1	1	SHARPNESS CIRCUIT F0		01	01	01	01	01	01									
	0A	**PRO**	0	3	PRE/OVER-SHOOT RATIO CONTROL		00	03	03	03	03	03									
	0B	**LT1**	2	3	LUMINANCE TRANSIENT IMPROVEMENT								02	02	00	02					(KV-EX29)
	0B	**LT1**	2	3	LUMINANCE TRANSIENT IMPROVEMENT								03	02	00	02					(KV-EX34)
	0C	**CT1**	1	3	CHROMINANCE TRANSIENT IMPROVEMENT								01	01	00	01					

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common	50/60Hz		Device Name
Category	No.	Name					TV	Video	
PIP	00	**PRO**	0	1	PROGRESSIVE SCAN MODE ENABLE	00			SDA9489X
	01	**RED**	0	1	READ DOUBLE MODE	00			
	02	**FEI**	0	3	FIELD SELECT	00			
	03	HPS	35	FF	HORIZONTAL PICTURE POSITSION	33			
	04	VPS	1B	FF	VERTICAL PICTURE POSITION	1B			
	05	HFP	0	0F	HORIZONTAL FINE POSITIONING	08			
	06	**VFP**	0	0F	VERTICAL FINE POSITIONING	00			
	07	**DIS**	0	3	DISPLAY STANDARD	00			
	08	**HOS**	0	3	HORIZONTAL SIZE	00			
	09	**VES**	0	3	VERTICAL SIZE	00			
	0A	**FPS**	0	3	FORCE PARENT STANDARD	00			
	0B	**HZM**	0	7	HORIZONTAL ZOOM	00			
	0C	**VSP**	0	1	VERTICAL SYNC PULSE NOISE REDUCTION	01			
	0D	**VDL**	0	1F	VERTICAL SYNC PULSE DELAY	00			
	0E	**FRH**	5	7	FRAME WIDTH HORIZONTAL	05			
	0F	**FMV**	2	3	FRAME WIDTH VERTICAL	02			
	10	**VRD**	0	1	REDUCTION	00			
	11	**VBK**	0	1	VERTICAL BLANKING	00			
	12	**DLY**	0	F	SELECT DELAY	01			
	13	**PCR**	0	1	POSITION CORRECTION	00			
	14	**AGM**	3	3	AGC MODE	03			
	15	**AGC**	6	F	AUTOMATIC GAIN CONTROL VALUE	09			(KV-EX29)
	15	**AGC**	6	F	AUTOMATIC GAIN CONTROL VALUE	09			(KV-EX34)
	16	**CVB**	0	3	CVBS SELECT	00			
	17	**CPD**	1	3	CLAMPING DURATION	01			
	18	**CPT**	1	3	CLAMPPING PULSE START	01			
	19	**LUM**	0	3	LUMINANCE OFFSET	00			
	1A	**PLL**	0	3	INSERT PLL TIME CONSTANT		00	00	
	1B	**YCD**	2	F	Y/C DELAY	08			
	1C	**NSR**	0	3	NOISE REDUCTION FOR INSERT PLL		02	00	
	1D	**LSP**	0	1	STANDARD IDENTIFICATION SPEED	00			
	1E	**KIL**	0	3	COLOR KILLER TRESHOLD	02			
	1F	**BGP**	0	1	BURST GATE POSITION	01			
	20	**SEC**	0	1	SECAM IDENTIFICATION LEVEL	01			
	21	**DEM**	1	3	DEEMPHASIS SELECTION	01			
	22	**CMA**	0	3	CHROMA BANDWITH	00			
	23	**IFC**	2	3	IF COMPENSATION FILTER	02			
	24	**HUE**	0	1F	HUE	00			
	25	**SCA**	7	1F	COLOR SUBCARRIER ADJUSTMENT	06			
	26	**CON**	0	F	CONTRAST ADJUSTMENT	00			
	27	**BLR**	0	F	BLANKING LEVEL RED CHANNEL	00			
	28	**BRT**	0	F	BRIGHTNESS ADJUSTMENT	00			
	29	**BLG**	0	F	BLANKING LEVEL GREEN CHANNEL	00			
	2A	**BIR**	0	1	BLANKING INVERSION RED CHANNEL	00			
	2B	**BIB**	0	1	BLANKING INVERSION BLUE CHANNEL	00			
	2C	**BLB**	0	F	BLANKING LEVEL BLUE CHANNEL	00			
	2D	**INT**	0	1	REFRESH INTERVAL	00			
	2E	**PKR**	4F	FF	PEAK LEVEL RED CHANNEL	85			
	2F	**PKG**	4F	FF	PEAK LEVEL GREEN CHANNEL	85			
	30	**PKB**	4F	FF	PEAK LEVEL BLUE CHANNEL	85			
	31	**FRY**	A	F	FRAME COLOR Y	09			
	32	**OUT**	1	1	OUTPUT FORMAT	01			
	33	**FRU**	0	F	FRAME COLOR U	00			
	34	**FRV**	0	F	FRAME COLOR V	00			
	35	**SAT**	7	F	COLOR SATURATION ADJUSTMENT	07			
	36	**YPK**	7	7	Y PEAK ADJUSTMENT	03			
	37	**YCO**	0	F	Y CORING ENABLE	00			
	38	PAL	3	3	PAL ID LEVEL	03			
	39	POV	0	7	POSITION OFFSET VERTICAL	00			
	3A	POH	0	1F	POSITION OFFSET HORIZONTAL	00			
	3B	**VSH**	0	1F	VERTICAL SHRINK	00			
	3C	**HSH**	0	1F	H SHRINK	00			
	3D	**CPL**	1	3	CLAMPING PULSE LENGTH	01			

Adjustment Item Table

TVG	Functionality		Initial	Range	Function		Multi							TV		Video		DVD		Device Name
Category	No.	Name				Common	Comb	3D Comb	S-Input	Other	TV	Video	DVD	50	60	50	60	50	60	
YCT	00	**TNT**	1F	3F	TINT ADJUSTMENT FOR NTSC						1F	1F								CXA2123Q (KV-EX29)
	00	**TNT**	1F	3F	TINT ADJUSTMENT FOR NTSC						20	1F								(KV-EX34)
	01	**PNG**	1	1	PAL/NTSC GATE WIDTH	01														
	02	**PNI**	0	1	PAL/NTSC SENSITIVITY SW	00														
	03	SCL	7	0F	SUB COLOR CONTROL									05	04	07	07			
	04	SCT	8	0F	SUB CONTRAST CONTROL									07	07	07	07			
	05	**SFO**	2	3	SHARPNESS CENTER FREQUENCY CHANGING	02														
	06	**SEQ**	3	3	SHARPNESS EQUALIZER CHARACTERISTIC	03														
	07	**SHG**	5	0F	SHARPNESS GAIN CONTROL									05	06	05	06	07	07	(KV-EX29)
	07	**SHG**	5	0F	SHARPNESS GAIN CONTROL									04	05	05	08	07	09	(KV-EX34)
	08	**YOL**	1F	3F	Y-OUTPUT LEVEL CONTROL	1F														
	09	**BSP**	0	3	BLACK STRETCH START POINT CHANGING	00														
	0A	COL	1F	3F	Cb/Cr OUTPUT LEVEL CONTROL	1A														
	0B	**DCR**	0	3	DC RESTORATION RATIO ADJUSTMENT	00														
	0C	**BFO**	1	3	BPF/TQF F0 ADJUSTMENT	01														
	0D	**BFQ**	2	3	BPF/TQF Q ADJUSTMENT	02														
	0E	**FSW**	1	1	BPF/TQF SWITCH	01														
	0F	**SDT**	1	1	SECAM DOUBLE TRAP SWITCH	01														
	10	**LPF**	1	1	Y/Cb/Cr LPF SWITCH	01														
	11	**YDL**	6	0F	Y-DL TIME ADJUSTMENT		07	05	06	06										
	12	**CMT**	0	1	Cb/Cr OUTPUT MUTE SWITCH	00														
	13	**BO1**	7	0F	Cb OFFSET 1 ADJUSTMNET (MAIN ROUTE)	07														
	14	**RO1**	7	0F	Cr OFFSET 1 ADJUSTMENT	07														
	15	**CDF**	0	7	V COUNT DOWN FREQUENCY SWITCH	00														
	16	**CDM**	0	3	V COUNT DOWN JUDGE SWITCH	00														
	17	**AFC**	0	3	AFC SENSITIVITY SWITCH							00	00							
	18	**MVM**	1	1	MACROVISION MASK + AFC MASK	01														
	19	**SRY**	7	0F	SECAM R-Y BLACK ADJUSTMENT	07														
	1A	**SBY**	1	0F	SECAM B-Y BLACK ADJUSTMENT	01														
	1B	**BEL**	2	3	SECAM BELL/HPF SWITCHING	02														
	1C	**BLF**	0	1	BELL F0 ADJUSTMENT	00														
	1D	**SV1**	0	1	SECAM V-ID SWITCH	00														
	1E	**SGP**	0	3	SECAM GATE POSITION ADJUSTMENT	00														
	1F	**SID**	1	1	SECAM SENSITIVITY SWITCH	01														
	20	**SIH**	0	1	SECAM INHIBITION SWITCH	00														
	21	**STP**	0	1	Y BLACK LEVEL SETUP FOR PAL PLUS	00														
	22	**ASW**	2	1	AUTO VIDEO SELECT MODE SW	01														
	23	**WSH**	0	3	SHARPNESS GAIN STEP FOR NOISE REDUCTION	00														
	24	**WCO**	0	3	Cb/Cr OUTPUT LEVEL STEP FOR NOISE REDUCTION	00														
	25	**CB2**	7	7	Cb2 OFFSET ADJUSTMENT (YCbCr2 INPUT)	07														
	26	**CR2**	7	7	Cr2 OFFSET ADJUSTMENT (YCbCr2 INPUT)	07														
	27	**HPH**	0	1	HS OUTPUT PHASE SWITCH	00														
	28	**VPH**	0	1	SWITCH FOR VP OUTPUT PHASE	00														
	29	**NCM**	0	1	NTSC COMB	01														

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common	Dynamic	Standard/Drama	Hi-Fine/Soft	Personal	Device Name
Category	No.	Name									
AP	00	**BAS**	13	1F	BASE SOUND MODE CONTROL		12	10	10		BH3868FS
	01	**TRE**	12	1F	TREBLE SOUND MODE CONTROL		12	12	10		
	02	**BBE**	99	FF	BBE SOUND MODE CONTROL		97	D5	00		(KV-EX29)
	02	**BBE**	99	FF	BBE SOUND MODE CONTROL		B7	E5	00		(KV-EX34)
	03	**SON**	0	1	SURROUND ON/OFF	00					
	04	**SST**	0	1	SURROUND STEREO	00					
	05	**SMO**	0	1	SURROUND MONORAL	00					
	06	**LOP**	0	1	SURROUND EFFECT ENHANCEER	00					
	07	**SUR**	0	7	SURROUND EFFECT	00					

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
MSP	00	**WST**	15	FF	W/G STEREO THRESHOLD	15	MPS3415D
	01	**WBT**	EA	FF	W/G BILINGUAL THRESHOLD	EC	
	02	**WLL**	5	FF	W/G MONAURAL THRESHOLD	05	
	03	**WAC**	1	OF	W/G AGREEMENT COUNT	01	
	04	**WDL**	30	FF	W/G SEARCH DELAY	30	
	05	**NDL**	20	FF	NICAM SEARCH DELAY	20	
	06	**SDL**	10	FF	STEREO STATUS READ DELAY	10	
	07	**AGC**	1	1	AGC SWITCH AUTO/CONSTANT	01	
	08	**REL**	28	3F	AGC GAIN AT CONSTANT MODE	28	
	09	**CRM**	0	1	CARRIER MUTING ON/OFF	00	
	0A	**ACO**	1	1	AUDIO CLOCK OUT ON/OFF	01	
	0B	**FP**	1B	7F	FM PRESCALE FOR NON-M SYSTEM	1B	
	0C	**FPM**	32	7F	FM PRESCALE FOR M SYSTEM	32	
	0D	**FH**	2D	7F	FM PRESCALE FOR HDEV	36	
	0E	**FHM**	65	7F	FM PRESCALE FOR HDEV AND M	65	
	0F	**WGP**	1C	7F	W/G PRESCALE	1C	
	10	**NIP**	7F	7F	NICAM PRESCALE	7F	
	11	**ERR**	50	FF	AUTO FM SWITCH THRESHOLD	50	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common	TV	Video	Picture Mode				Device Name
Category	No.	Name							Dynamic	Standard/Drama	Hi-Fine/soft	Personal	
LT1	00	**LDH**	1	1	HISTOGRAM SEGMENT SELECTION	01							TDA9178
	01	**CFS**	1	1	CONTOUR FILTER SELECTION	01							
	02	**WLB**	0	1	LETTERBOX WINDOW SWITCH	00							
	03	**VDC**	1	1	VIDEO DEPENDANT CORING				01	01	01	01	
	04	**DEM**	0	1	DEMONSTRATION MODE	00							
	05	**CDP**	4	07	LUMINANCE DELAY	04							
	06	**OSP**	0	1	OVERRULE SMART PEAKING	00							
	07	**WPO**	0	1	WHITE POINT STRETCH OFF	00							
	08	**DSK**	0	1	SKIN TONE SWITCH				00	00	00	00	
	09	**ASK**	0	1	SKIN TONE ANGLE SELECTION	00							
	0A	**WSK**	0	1	SKIN TONE WIDTH SELECTION	00							
	0B	**SSK**	0	1	SKIN TONE SIZE SELECTION	00							
	0C	**DGR**	1	1	GREEN ENHANCEMENT SWITCH				01	01	00	01	
	0D	**DGT**	7	7	THRESHOLD OF GREEN ENHANCEMENT SWITCH	07							
	0E	**GGR**	0	1	GREEN ENHANCEMENT GAIN	00							
	0F	**WGR**	0	1	GREEN ENHANCEMENT WIDTH	00							
	10	**SGR**	0	1	GREEN ENHANCEMENT SIZE	00							
	11	**DBL**	0	1	BLUE STRETCH SWITCH	00							
	12	**GBL**	0	1	BLUE STRETCH GAIN SELECTION	00							
	13	**SBL**	0	1	BLUE STRETCH SIZE SELECTION	00							
	14	**CDS**	1	1	COLOR DEPENDANT SHARPNESS				01	01	00	01	
	15	**CST**	7	7	THRESHOLD OF COLOR DEPENDANT SHARPNESS	07							
	16	**CT1**	0	1	COLOR TRANSIENT IMPROVEMENT				00	00	00	00	
	17	**BON**	0	1	BLACK OFFSET COMPENSATION				00	00	00	00	
	18	**BTD**	0	3F	ADAPTIVE BLACK STRETCH				00	00	00	00	
	19	**NLD**	15	3F	NON-LINEARITY AMPLIFIER				15	15	00	15	
	1A	**NLW**	7	7	STEP WIDTH OF NON-LINEARITY AMPLIFIER	07							
	1B	**VGD**	15	3F	VARIABLE GAMMA				1F	1F	1F	1F	(KV-EX29)
	1B	**VGD**	15	3F	VARIABLE GAMMA				22	1F	1F	1F	(KV-EX34)
	1C	**VGW**	0	7	STEP WIDTH OF VARIABLE GAMMA	00							
	1D	**PKD**	3F	3F	PEAKING AMPLITUDE				3F	2B	0E	2B	(KV-EX29)
	1D	**PKD**	3F	3F	PEAKING AMPLITUDE				3F	30	0E	30	(KV-EX34)
	1E	**PKW**	8	0F	STEP WIDTH OF PEAKING AMPLITUDE	08							
	1F	**SPD**	0	3F	STEEPNESS CORRECTION				20	00	00	00	
	20	**CRD**	11	3F	CORING LEVEL				1B	1B	00	1B	(KV-EX29)
	20	**CRD**	11	3F	CORING LEVEL				16	16	00	16	(KV-EX34)
	21	**CRW**	9	0F	STEP WITH CORING LEVEL	09							
	22	**CRO**	0	0F	CORING LEVEL OFFSET FOR VIDEO MODE	06							(KV-EX29)
	22	**CRO**	0	0F	CORING LEVEL OFFSET FOR VIDEO MODE	01							(KV-EX34)
	23	**LWD**	1F	3F	LINE WIDTH CORRECTION	1F							
	24	**SNM**	0	7	S/N MODE UNDER UNRELIABLE S/N CONDITION	00							
	25	**SNC**	3	OF	S/N RATIO AVERAGE COUNTER		03	03					
	26	**FMC**	2	OF	FEATURE MODE MATCHING COUNTER	02							

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
DRC	00	**MOD**	0	3	DRC MODE (FOR EVALUATION ONLY) 00-NORMAL, 01-FORCED 1250I, 02-FORCED PROGRESSIVE, 03-FORCED SIMPLE PROGRESSIVE	00	

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common	TV	Video	NR Mode				Picture Mode				
Category	No.	Name							NR mode 0	NR mode 1	NR mode 2	NR mode 3	Dynamic	Standard/Drama	Hi-Fine/soft	Personal	Device Name
3CM	00	**FRZ**	0	1	EXTERNAL MEMORY TEST BIT	00											UPD64082
	01	**NRM**	0	3	NOISE REDUCTION OPERATION MODE	00											
	02	**YCO**	0E	0F	Y/C SIGNAL OUTPUT SELECTION	0D											
	03	**SYC**	1	3	SYSTEM CLOCK SELECTION	01											
	04	**STD**	0	3	STANDARD/NON-STANDARD OPERATION SELECTION	00											
	05	**MSS**	0	3	INTER-FRAME/INTER-LINE OPERATION SELECTION	00											
	06	**KIL**	3	3	KILLER/NON-KILLER OPERATION SELECTION	03											
	07	**EAD**	0	1	EXTERNAL Y-ADC SWITCH	00											
	08	**ECS**	1	3	EXTERNAL C-SYNC INPUT SELECTION	01											
	09	**CPP**	2	3	ADC INPUT LEVEL & CLUMP PULSE WIDTH SELECTION	02											
	0A	**PWR**	0	1	ADC INPUT WIDTH SWITCH	00											
	0B	**HDP**	5	7	HORIZONTAL PHASE ADJUSTMENT	05											
	0C	**CDL**	4	7	C-SIGNAL DELAY ADJUSTMENT	04											
	0D	**DYC**	2	0F	DY DETECTION CORING LEVEL ADJUSTMENT				02	02	02	04					
	0E	**DYG**	0A	0F	DY DETECTION GAIN ADJUSTMENT				0A	0A	0A	0A					
	0F	**DCC**	5	0F	DC DETECTION CORING LEVEL ADJUSTMENT				05	03	03	05					
	10	**DCG**	5	0F	DC DETECTION GAIN ADJUSTMENT				05	0A	0A	05					
	11	**YNR**	1	0F	YNR NON-LINEAR FILTER SETUP	01											
	12	**CNR**	1	0F	CNR NON-LINEAR FILTER SETUP	01											
	13	**WSC**	1	3	NOISE DETECTION CORING ADJUSTMENT	01											
	14	**VTH**	1	3	HYSTERESIS SELECTION FOR H-SYNC NON-STANDARD		01	01									
	15	**VTR**	1	3	SENSITIVITY SELECTION FOR H-SYNC NON-STANDARD		01	01									
	16	**LDR**	2	3	SENSITIVITY SELECTION FOR FRAME-SYNC NON-STANDARD		02	01									
	17	**VAP**	3	7	GAIN ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								03	00	00	00	
	18	**VAI**	0C	1F	VANISHING ADJUSTMENT FOR VERTICAL SHAPE CORRECTION								0C	00	00	00	
	19	**TST**	0	1	TEST BIT	00											
	1A	**YPF**	3	3	CENTER FREQUENCY SELECTION FOR Y-PEAKING BPF								03	03	03	03	
	1B	**YPG**	8	0F	GAIN ADJUSTMENT FOR Y-PEAKING BPF								08	08	08	08	
	1C	**VSE**	OA	0F	LINE COMB FILTER SETUP	02											
	1D	**CCN**	0	1	C-SIGNAL SPLIT FILTER SWITCH	00											
	1E	**COS**	0	1	C-SIGNAL DELAY SWITCH AT NOISE REDUCTION	00											
	1F	**SDC**	0	1	DC DETECTION SENSITIVITY SWITCH	00											
	20	**SDY**	1	1	DY DETECTION LOWER-LEVEL SENSITIVITY SWITCH	01											
	21	**D2G**	4	7	D2 GAIN SELECTION	04											
	22	**YHC**	0	3	Y-SIGNAL HIGHER-LEVEL CORING SELECTION								00	00	00	00	
	23	**YHG**	0	1	Y-SIGNAL HIGHER-LEVEL GAIN SWITCH								00	00	00	00	
	24	**SHT**	0	0F	NON-STANDARD DETECTION & H/V COUNTER TEST BITS	00											
	25	**CLK**	8	0F	CLOCK TEST BITS	08											
	26	**PLL**	0D	0F	PLL FILTER SETUP	0D											
	27	**KRF**	3	0F	KILLER DETECTION REFERENCE ADJUSTMENT	03											
	28	**HSL**	0C	0F	H-SYNC SLICE LEVEL ADJUSTMENT	0C											
	29	**VSL**	8	0F	V-SYNC SLICE LEVEL ADJUSTMENT	08											
	2A	**BPS**	4	0F	INTERNAL BURST GATE START POSITION ADJUSTMENT	04											
	2B	**BPW**	0A	0F	INTERNAL BURST GATE WIDTH POSITION ADJUSTMENT	0A											
	2C	**ADC**	3	3	ADC CLOCK DELAY SELECTION	03											
	2D	**APD**	1	1	ADC POWER-DOWN SWITCH	01											
	2E	**NSD**	1	1	NON-STANDARD DETECTION TEST BIT	01											
	2F	**SPD**	2	3	MEMORY POWER-DOWN SWITCH	02											
	30	**CNT**	0	1	CNR TEST BIT	00											

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
TXT	00	TXH	1	3	TELETEXT HORIZONTAL POSITION FOR PHILIPS	01	SAA5261
	01	TXV	0	7	TELETEXT VERTICAL POSITION FOR PHILIPS	07	

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
OPM	00	OSH	12	3F	OSD H POSITION	12	CXP750096
	01	FW1	0	3F	OSD ODD/EVEN FIELD WINDOW SETUP #1	00	OPTION-MISC
	02	FW2	3	3F	OSD ODD/EVEN FIELD WINDOW SETUP #2	03	
	03	**COM**	0	03	COMB OPERATION SELECTION	02	
	04	**APC**	1	1	APC SWITCH	01	
	05	**TSY**	0	03	TV SYSTEM SELECTION UNDER SEARCHING WITH AUTO TV SYSTEM	00	
	06	**MUT**	0	1	NO SIGNAL MUTE	01	
	07	**AFM**	1	1	AUTO FM SWITCH	01	
	08	TVO	3	7	V-ANGLE CORRECTION TO PICTURE ROTATION	03	
	09	DBL	0	1	DISABLE BLUEBACK FUNCTION	00	
	0A	**SSO**	1	3	SPEED CH SEARCH SELECTION	01	
	0B	TRP	0	3F	MPEG/JPEG NOISE REDUCTION FOR EACH INPUT	00	
	0C	SCH	1	7F	CH SELECTION FOR SHIPPING CONDITION	0F	
	0D	SCA	1	1	CABLE/AIR SELECTION FOR SHIPPING CONDITION	01	
	0E	VSN	0	1	ENABLE NOISE REDUCTION IN VIDEO MODE	01	
	0F	PSQ	0	1	POWER SEQ FOR CONTINUOS SIRCS DETECTION SPEC	00	
	10	POR	0	1	POWER ON RESET DETECTION FROM YCT	01	

TVG	Functionality		Initial	Range	Function	Common	Device Name
Category	No.	Name					
OPB	00	OP1	E7	FF	OPTION BITS 1 (SEE THE SPECIFIED SHEET)	#	OPTION-BITS
	01	OP2	17	FF	OPTION BITS 2 (SEE THE SPECIFIED SHEET)	#	

Note:- OP1 AND OP2 "#" : SEE OPTION NOTE.

Abbreviation

VC = V-Compressed Mode NC = Non-compressed Mode ECO = Eco Mode
Sur = Surround NR = Noise Reduction

NOTE

- shaded items are fixed data.
- no data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data: The data indicated in the initial colomn are the standard data values written on the microprocessor. Therefore, the data valies of the modes and stored respectively in the memory. In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

OPTION NOTE

COM Comb Operation Selection
00 = No comb used,
01 = Multi-Standard comb,
02 = 3D comb (NTSC Models only)
03 = Illegal, Do not use

TSY TV System Selection for Auto TV System 00 = B/G, 01 = I, 10 = D/K, 11 = M

SSO Speed CH Search Selection 00 = normal, 01 = 4 times, 10 = 6 times, 11 = 8 times

TRP MPEG/JPEG Noise Reduction

Input	–	–	TV	Video 1	Video 2	Video 3	Video 4	DVD

OP1 Items

Item	TOP	NICAM	HDEV	(Reserved)	Sleep Mode	DVD Input	AV Input		HEX
KV-EX29K94	0	1	1	0	1	1	1	1	6F
KV-EX34K94	0	0	0	0	1	1	1	1	0F

AV Input 00 = no AV Input, 01 = 1 AV Input, 10 = 3 AV Input, 11 = 4 AV Input

OP2 Items

Item	PIP Models	Korean Stereo	Video NTSC 3.58	A-TV sys	US Stereo	NA	Taiwanese	Korean	HEX
KV-EX29K94	0	–	–	1	–	1	1	1	17
KV-EX34K94	1	1	1	0	0	0	0	1	E2

Pin P PiP models 0 = No PiP, 1 = PiP 0 = Original (Siemens), 1 = Chinese (Philips)
A-TV sys Auto TV System in Auto Program 0 = disabled, 1 = enabled

OSD Language (Multi)
000 = English only, 100 = English & Chinese
010 = English & Arabic 110 = English, Chinese & Arabic
001 = English & Thai 101 = English, Chinese & Thai
011 = English, Arabic & Thai 111 = English, Chinese, Arabic & Thai

OP3 Items

Item	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Forced 50/60	HEX
KV-EX29K94	0	0	0	0	0	0	0	1	01
KV-EX34K94	0	0	0	0	0	0	0	1	01

NOTE

No.	Modes	Details	Entry Conditions
1.	50NC/60NC	Signal 50/60Hz Non-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode OFF (TV/video mode)
2.	50VC/60VC	Signal 50/60Hz V-Compressed mode.	Input 50Hz(PAL)/60Hz(NTSC), wide mode ON (TV/Video mode)
3.	ECO ON/OFF NC	Eco modeON/OFF Non-Compressed mode.	ECO mode ON/OFF, wide mode OFF
4.	ECO ON/OFF VC	ECO mode ON/OFF V-Compressed mode.	ECO mode ON/OFF, wide mode ON
5.	50/60 DVD	Signal 50/60Hz Digital Video Disk	Input 50Hz(PAL)/60Hz(NTSC), DVD
6.	Multi Comb	Multi Comb Filter	Input PAL, NTSC 3.58, Service mode category OPM 03 COM 01 (Multi Model only)
7.	3D Comb	3 Dimensional Comb Filter	Input NTSC 3.58 only, Service mode category OPM 03 COM 02 (NTSC model only)
8.	S-Input	S-Video Input	Connect S-Video Cable, video mode

7-3. PICTURE QUALITY ADJUSTMENT

PICTURE ADJUSTMENT

1. Set to service mode.
2. Set A/V control to HI-FINE.
3. Set the following condition.

Adjustment condition

SAJ	00	PIC	3F
	06	DYC	00
	0E	CLO	06
	10	HUO	07
JGL	04	BBT	00
	05	LML	03

ECO MODE : OFF
WIDE MODE : OFF
DRC-MF : DRC1050

MEASUREMENT POINT

VR : R100 (the pin 6 of CN1100)
VB : B100 (the pin 7 of CN1100)

CAUTION
After Adjustment, these adjustment parameters must be recovered to the original condition.

Original Condition

SAJ	00	PIC	28	HI-FINE
	06	DYC	0	HI-FINE

	50 TV	50 VIDEO	60 TV	60 VIDEO
0E CLO	09	08	09	09
1O HUO	08	08	09	09

JGL	04	BBT	03
	05	LML	00

1. DRIVE ADJUSTMENT (VIDEO MODE)

Input signal : NTSC Color bar, to Video 1
[Service] mode.

(i) SUB CONTRAST

Condition :	SAJ	00	PIC	3F
		02	COL	00
	JGL	01	RGB	04

Adjusting parameter:

YCT	08	YOL

2. DRIVE ADJUSTMENT (RF MODE)

Input signal : NTSC Color bar HI-FINE Mode.

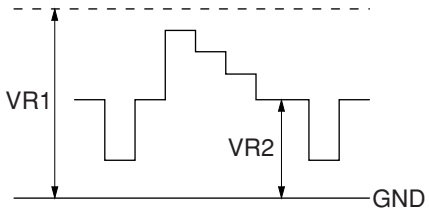
(i) SUB CONTRAST

Condition :	SAJ	00	PIC	3F
		02	COL	00
	JGL	01	RGB	04

Adjusting parameter:

YCT	04	SCT

(ii) Copy SCT data to PAL (RF MODE)



VR1 - VR2 = VR = 1.85 ± 0.07 (Vp-p)

SUB HUE/COL ADJUSTMENT

1. SUB HUE/SUB COL (VIDEO MODE)

Input signal : NTSC Color bar HI-FINE Mode.

Condition :	SAJ	02	COL	1F
	JGL	01	RGB	07
	SAJ	10	HUO	07

Adjusting parameter:

YCT	0A	COL
YCT	00	TNT

After the adjustment SAJ 10 HUO 9

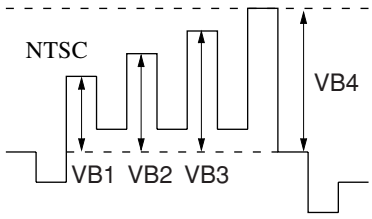
2. SUB HUE/SUB COL (NTSC RF MODE)

Input signal : NTSC Color bar.

Condition :	SAJ	02	COL	1F
	JGL	01	RGB	07
	SAJ	10	HUO	07

Adjusting parameter:

YCT	03	SCL
YCT	00	TNT



VB1 = VB4 ± 70 mV
VB2 = VB3 ± 70 mV

7-4. DEFLECTION ADJUSTMENTS

FOR DRC 1050 (60Hz) MODE

1. Set to Service Mode.
2. Input a NTSC cross hatch/dot signal.
3. Set the following condition.
   Picture Mode to [DYNAMIC], Picture Rotation to [+/−0] and
   Eco Mode to OFF.
4. Set to DRC-MF1050 mode.
5. Using the [1] and [4] button, select category GEO (Service Mode).
6. Raise/lower the data using the [3] and [6] buttons. Select and adjust the following items to obtain optimum image.

   Service Item

GEO :	00	VSZ	V SIZE
	01	VPS	V POSITION
	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	04	HSZ	H SIZE
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW

7. Using the [1] and [4] buttons select category DAC (Service Mode).
8. Select and ad List the following items to obtain optimum image. Raise/lower the data with the [3] and [6] buttons.Select and adjust the following items to obtain optimum image.

   Service Item

DAC:	01	HLN	H LINEARITY
	04	HTR	HORIZONTAL TRAPEZIUM
	05	PBA	PIN UNBALANCE

9. Select “GEO 04 HSZ” with the [1] and [4] buttons.
10. Confirm the H Size condition. If necessary, adjust the H Size to get a best condition.
11. Write into the memory by pressing [MUTING] then [0] on the remote commander.

FOR WIDE MODE, DRC1050 (60Hz)

12. Adjust condition change to WIDE MODE : ON.
13. COPY (item FOR DRC 1050 (60Hz) MODE and adjust data for the following items.

    Service Item

GEO :	00	VSZ	V SIZE
	01	VPS	V POSITION
	04	HSZ	H SIZE

14. Adjust V Blanking the following items.

    Service Item

GEO :	13	VAS	V ASPECT
	14	VSC	V SCROLL

15. Adjust the following items.

    Service Item

GEO :	02	VLN	V LINEARITY
	03	SCO	S CORRECTION
	05	HPS	H POSITION
	06	PAP	PIN AMP
	07	UPN	UPPER CORNER PIN
	08	LPN	LOWER CORNER PIN
	09	TRZ	TRAPEZIUM
	0A	AGL	AFC ANGLE
	0B	BOW	AFC BOW
DAC :	01	HLN	H LINEARITY
	04	HTR	HORIZONTAL TRAPEZIUM
	05	PBA	PIN UNBALANCE

16. Repeat step 5 and 6.

FOR DRC 1050 (50Hz) MODE

17. Select VIDEO without input signal.
18. Set to DRC-MF : 1050
19. COPY "DAC 00 HCT (DRC 1050, 60Hz)"
    to
    "DAC 00 HCT (DRC 1050, 50Hz)"
20. Copy the Service Item listed in no. 6 and no. 8 from 60Hz data to 50Hz data. Add 9 steps to HPS data and save the data.

FOR WIDE MODE, DRC 1050 (50Hz)

21. Set to WIDE MODE : ON
22. Using the [1] and [4] buttons select category GEO (Service Mode).
23. Copy the following items from DRC1050 (50Hz) data to wide mode, DRC1050 (50Hz) data.

GEO	00	VSZ	V SIZE
	01	VPS	V POSITION
	04	HSZ	H SIZE

24. Copy the following items from 60Hz data to 50Hz data.

GEO	13	VAS	V ASPECT
	14	VSC	V SCROLL

25. Copy the Service Item listed in no.15 from 60Hz data to 50Hz data.
26. Add 9 steps to HPS data and save the data.

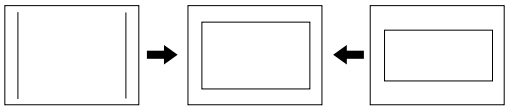
7-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
   In cases where items are not well adjusted, rectify the items with fine adjustment.
   Write the data per each item number ([MUTING] +[0]).
4. Select item numbers “OPB00” (OP1), “OPB01” (OP2) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
   (This will also cancel Service Mode.)

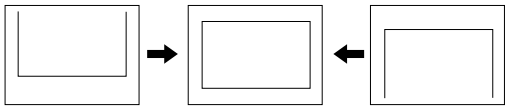
7-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

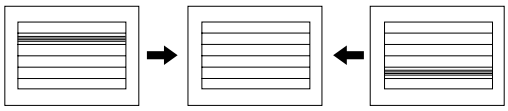
GEO 0 VSZ (V SIZE)



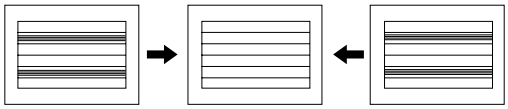
GEO 1 VPS (V POSITION)



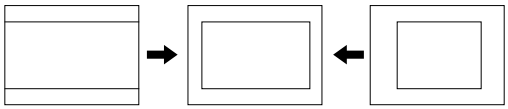
GEO 2 VLN (V LINEARITY)



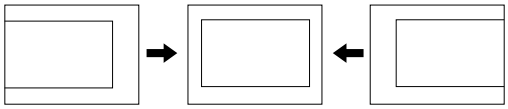
GEO 3 SCO (VERTICAL S-Correction)



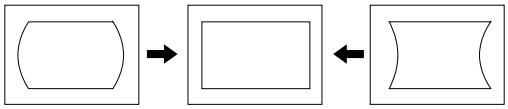
GEO 4 HSZ (H SIZE)



GEO 5 HPS (H POSITION)

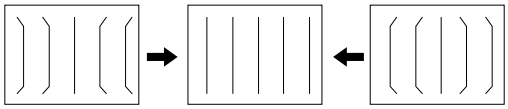


GEO 6 PAP (PIN AMP)

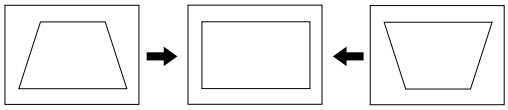


GEO 07 UPN (UPPER CORNER PIN)

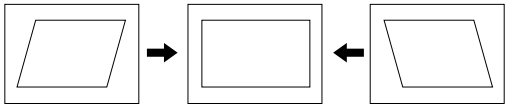
GEO 08 LPN (LOWER CORNER PIN)



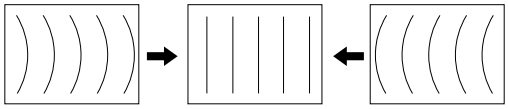
GEO 9 TRZ (TRAPEZIUM)



GEO 0A AGL (AFC.ANGLE)

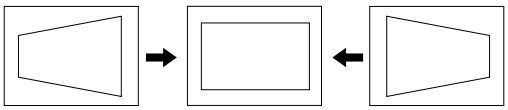


GEO 0B BOW (AFC.BOW)



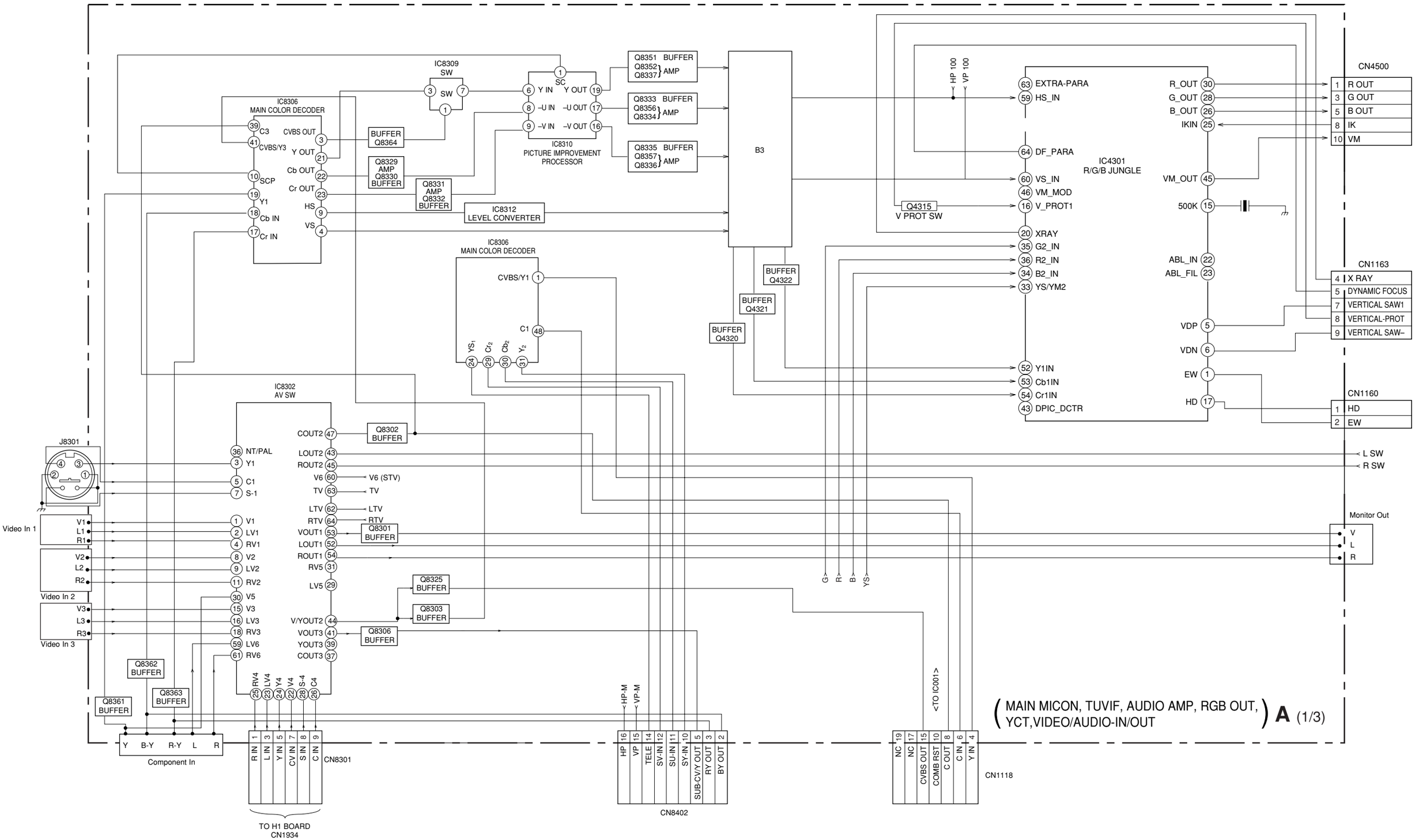
PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (DAC 4 HTR)

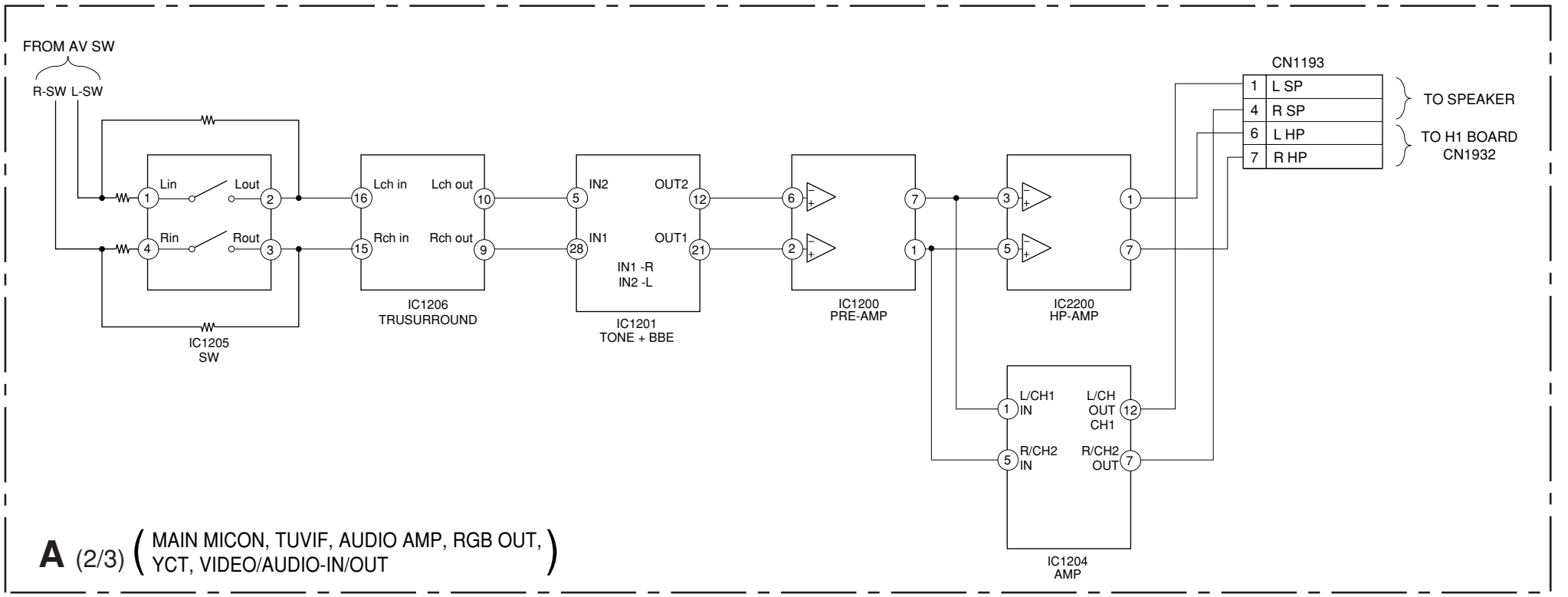


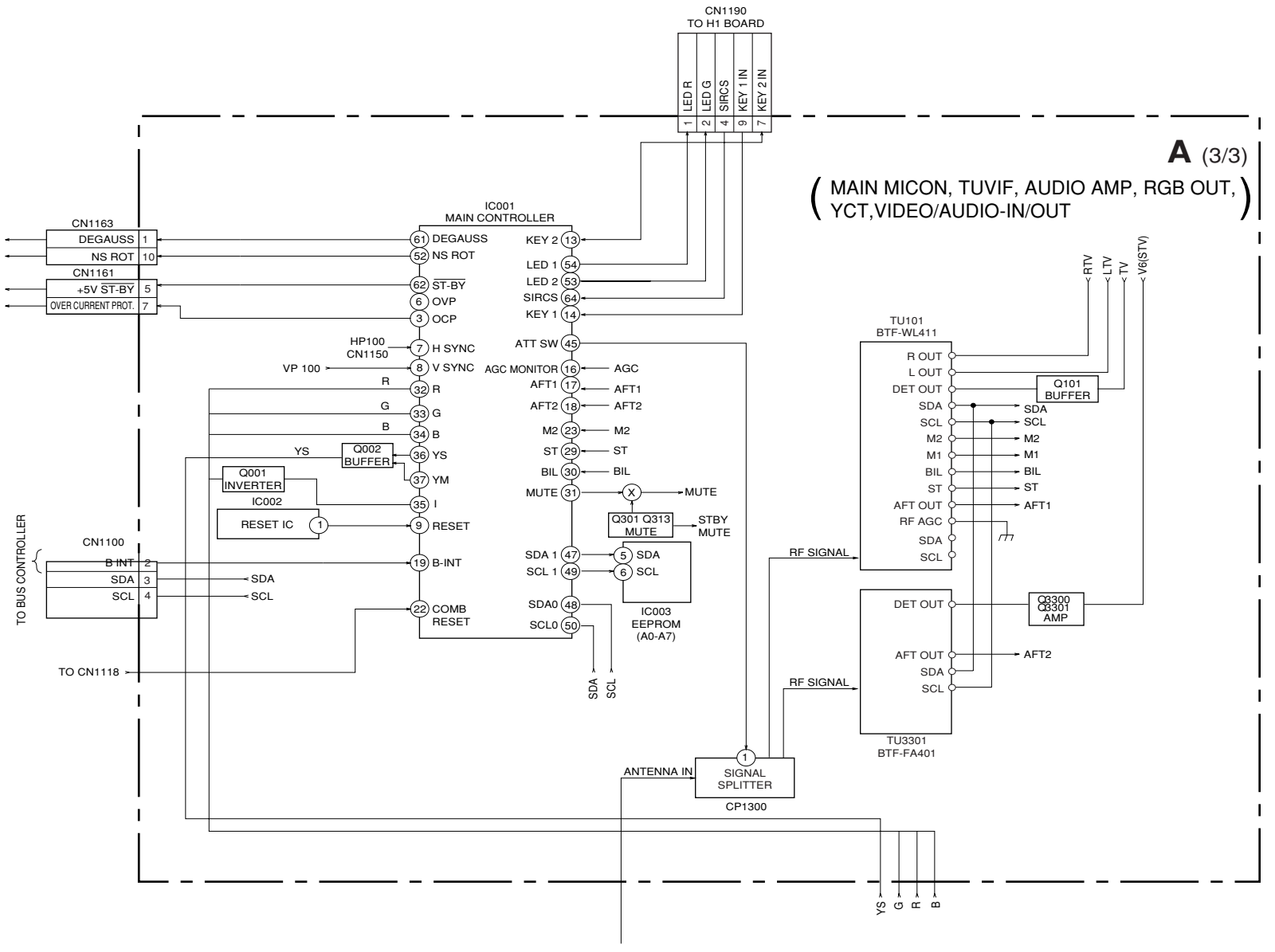
SECTION 8
DIAGRAMS

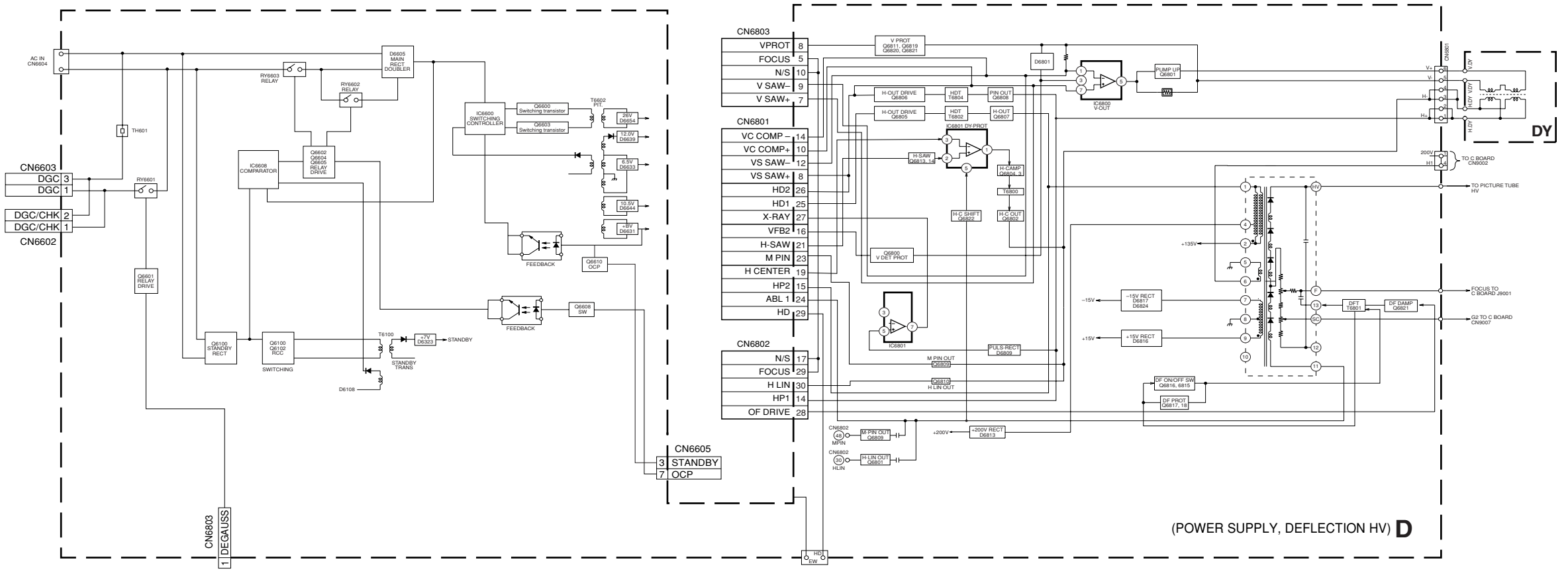
8-1. BLOCK DIAGRAMS

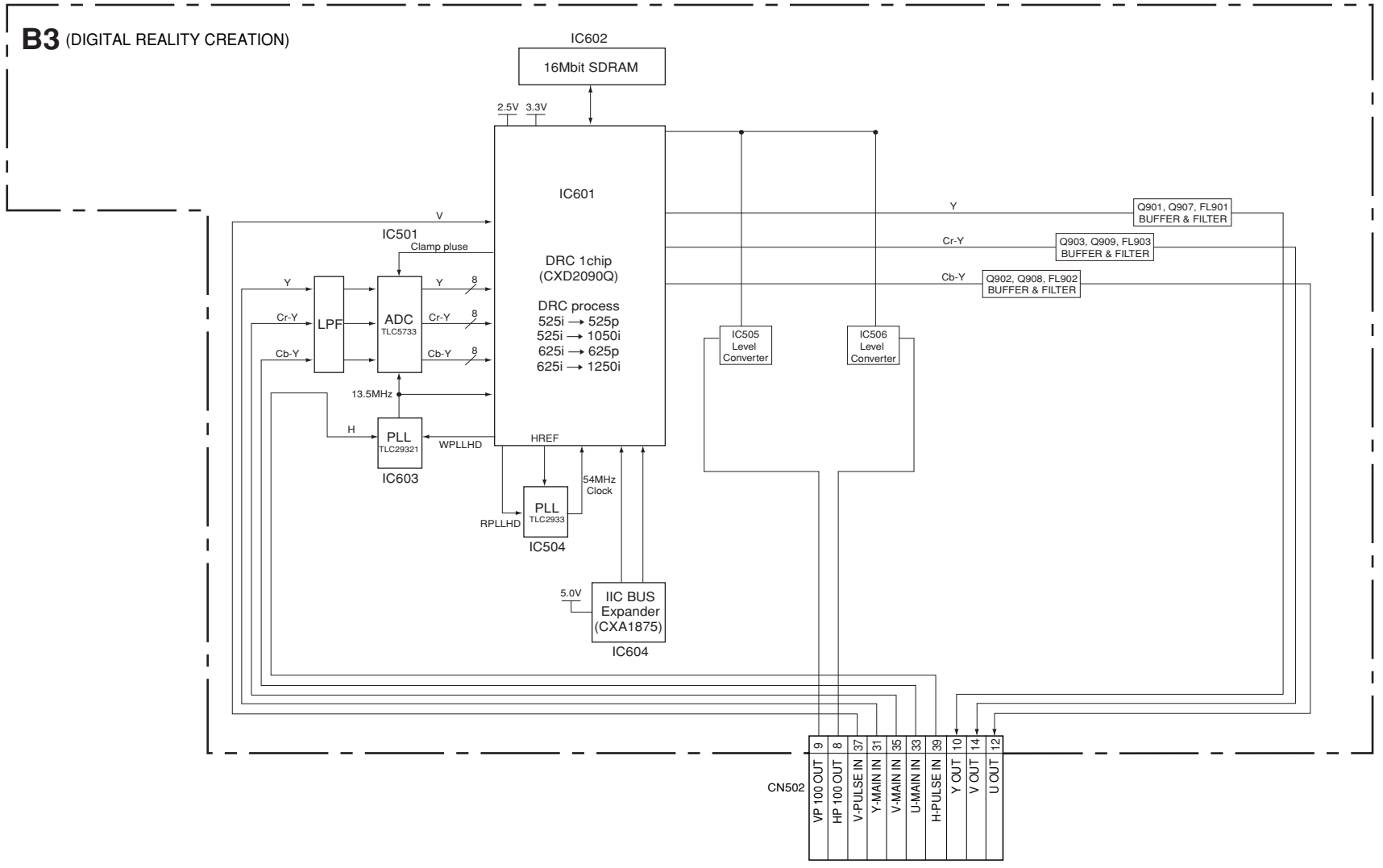


KV-EX29K94/EX34K94
RM-965

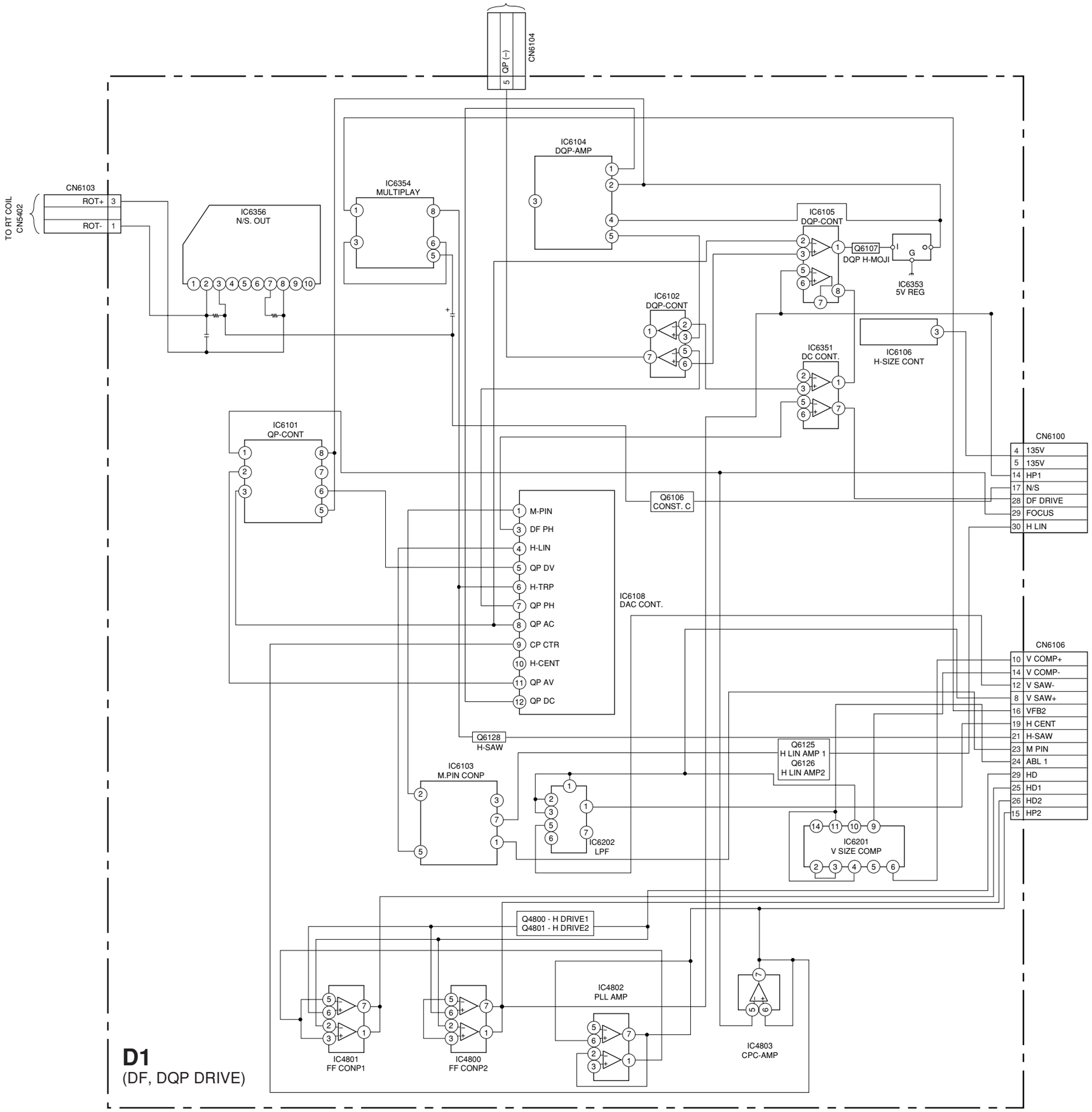





AC IN CN6604
TH601
CN6603
DGC 3
DGC 1
DGC/CHK 2
DGC/CHK 1
CN6602
RY6601
RY6603 RELAY
RY6602 RELAY
D6605 MAIN RECT DOUBLER
IC6608 COMPARATOR
Q6602 Q6604 Q6605 RELAY DRIVE
Q6601 RELAY DRIVE
IC6600 SWITCHING CONTROLLER
Q6600 Switching transistor
Q6603 Switching transistor
T6602 PIT
26V D6654
12.0V D6639
6.5V D6633
10.5V D6644
+8V D6631
FEEDBACK
Q6610 OCP
FEEDBACK
Q6608 SW
Q6100 STANDBY RECT
Q6100 Q6102 RCC
SWITCHING
T6100
+7V D6323
STANDBY
STANDBY TRANS
D6108
CN6603
1 DEGAUSS
CN6605
3 STANDBY
7 OCP
CN6803
VPROT 8
FOCUS 5
N/S 10
V SAW– 9
V SAW+ 7
CN6801
VC COMP – 14
VC COMP+ 10
VS SAW– 12
VS SAW+ 8
HD2 26
HD1 25
X-RAY 27
VFB2 16
H-SAW 21
M PIN 23
H CENTER 19
HP2 15
ABL 1 24
HD 29
CN6802
N/S 17
FOCUS 29
H LIN 30
HP1 14
OF DRIVE 28
V PROT Q6811, Q6819 Q6820, Q6821
D6801
IC6800 V-OUT
PUMP UP Q6801
H-OUT DRIVE Q6806
H-OUT DRIVE Q6805
HDT T6804
HDT T6802
PIN OUT Q6808
H-OUT Q6807
IC6801 DY-PROT
H-SAW Q6813, 14
H-CAMP Q6804, 3
T6800
H-C SHIFT Q6822
H-C OUT Q6802
Q6800 V DET PROT
IC6801
PULS-RECT D6809
M PIN OUT Q6809
Q6810 H LIN OUT
CN6802 48 MPIN
M-PIN OUT Q6809
CN6802 30 HLIN
H-LIN OUT Q6801
+200V
+200V RECT D6813
CN6801
V+
V–
H–
H+
200V
H1
V DY
H DY
DY
TO C BOARD CN9002
TO PICTURE TUBE HV
+135V
–15V
–15V RECT D6817 D6824
+15V
+15V RECT D6816
DFT T6801
DF DAMP Q6821
FOCUS TO C BOARD J9001
G2 TO C BOARD CN9007
DF ON/OFF SW Q6816, 6815
DF PROT Q6817, 18
HD
EW
(POWER SUPPLY, DEFLECTION HV) D


B3 (DIGITAL REALITY CREATION)
IC602
16Mbit SDRAM
2.5V 3.3V
IC601
DRC 1chip
(CXD2090Q)
DRC process
525i → 525p
525i → 1050i
625i → 625p
625i → 1250i
V
IC501
Clamp pluse
Y
Cr-Y
Cb-Y
LPF
ADC
TLC5733
8
13.5MHz
H
PLL
TLC29321
WPLLHD
IC603
HREF
PLL
TLC2933
RPLLHD
54MHz Clock
IC504
5.0V
IIC BUS Expander (CXA1875)
IC604
IC505 Level Converter
IC506 Level Converter
Q901, Q907, FL901 BUFFER & FILTER
Q903, Q909, FL903 BUFFER & FILTER
Q902, Q908, FL902 BUFFER & FILTER
CN502
9 VP 100 OUT
8 HP 100 OUT
37 V-PULSE IN
31 Y-MAIN IN
35 V-MAIN IN
33 U-MAIN IN
39 H-PULSE IN
10 Y OUT
14 V OUT
12 U OUT

KV-EX29K94/EX34K94
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8-2. SCHEMATIC DIAGRAMS

Note:

- All capacitors are in µF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
  kΩ = 1000Ω, MΩ = 1000kΩ
- Indication of resistance which does not have rating electrical power is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- △ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Readings are taken with a color-bar signal input.**
  no mark : COMMON
  underline : PAL
  ( ) : SECAM
  [ ] : NTSC 3.58
  « » : NTSC 4.43
- **Readings are taken with a 10 MΩ digital multimeter.**
- **Voltage are dc with respect to ground unless otherwise noted.**
- **Voltage variations may be noted due to normal production tolerances.**
- **All voltages are in Volt.**
- ✻ **: Cannot be measured.**
- **Circled numbers are waveform references.**
- **: B + bus.**
- **: B – bus.**
- ⇨ **: signal path.**

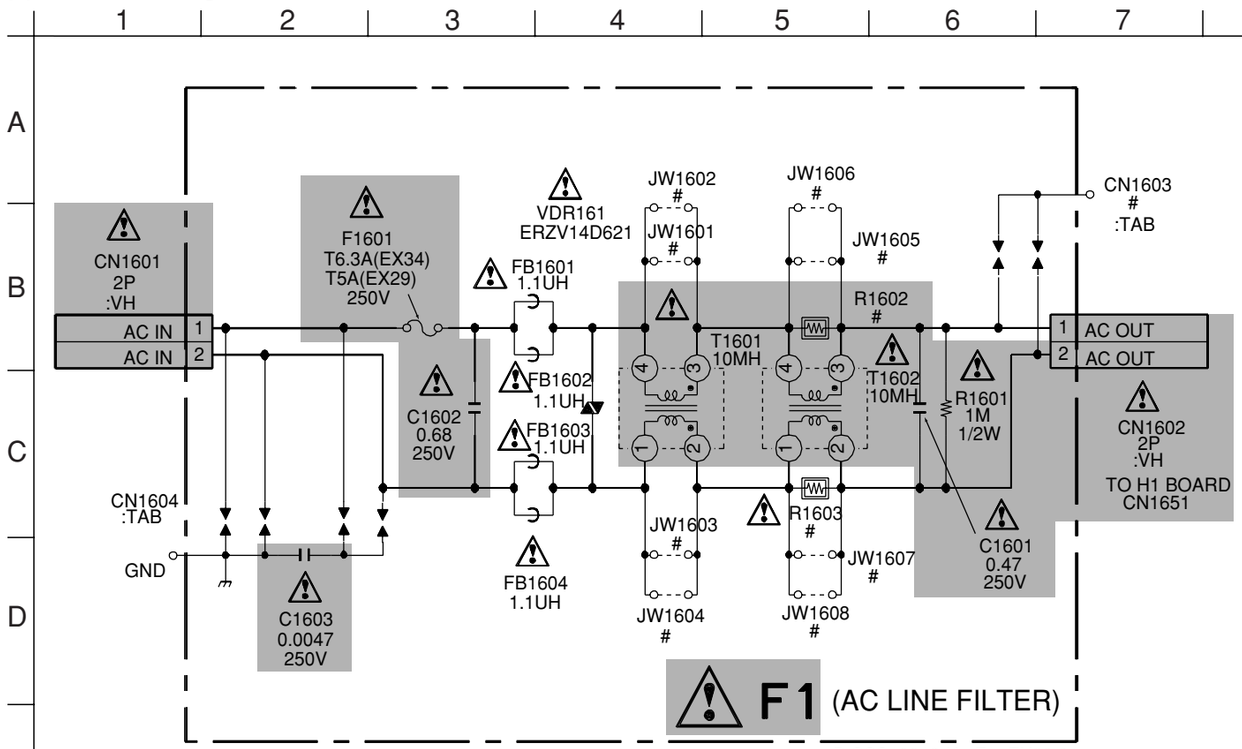
Reference information

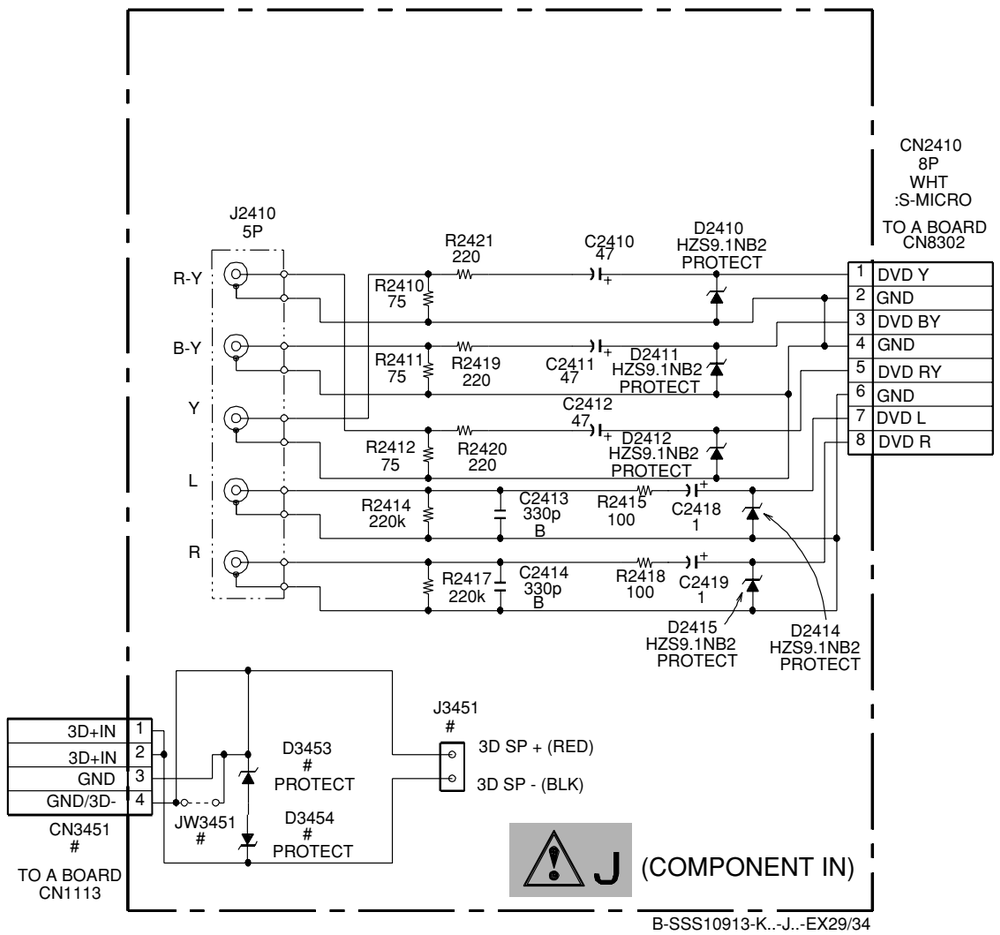
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✻	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

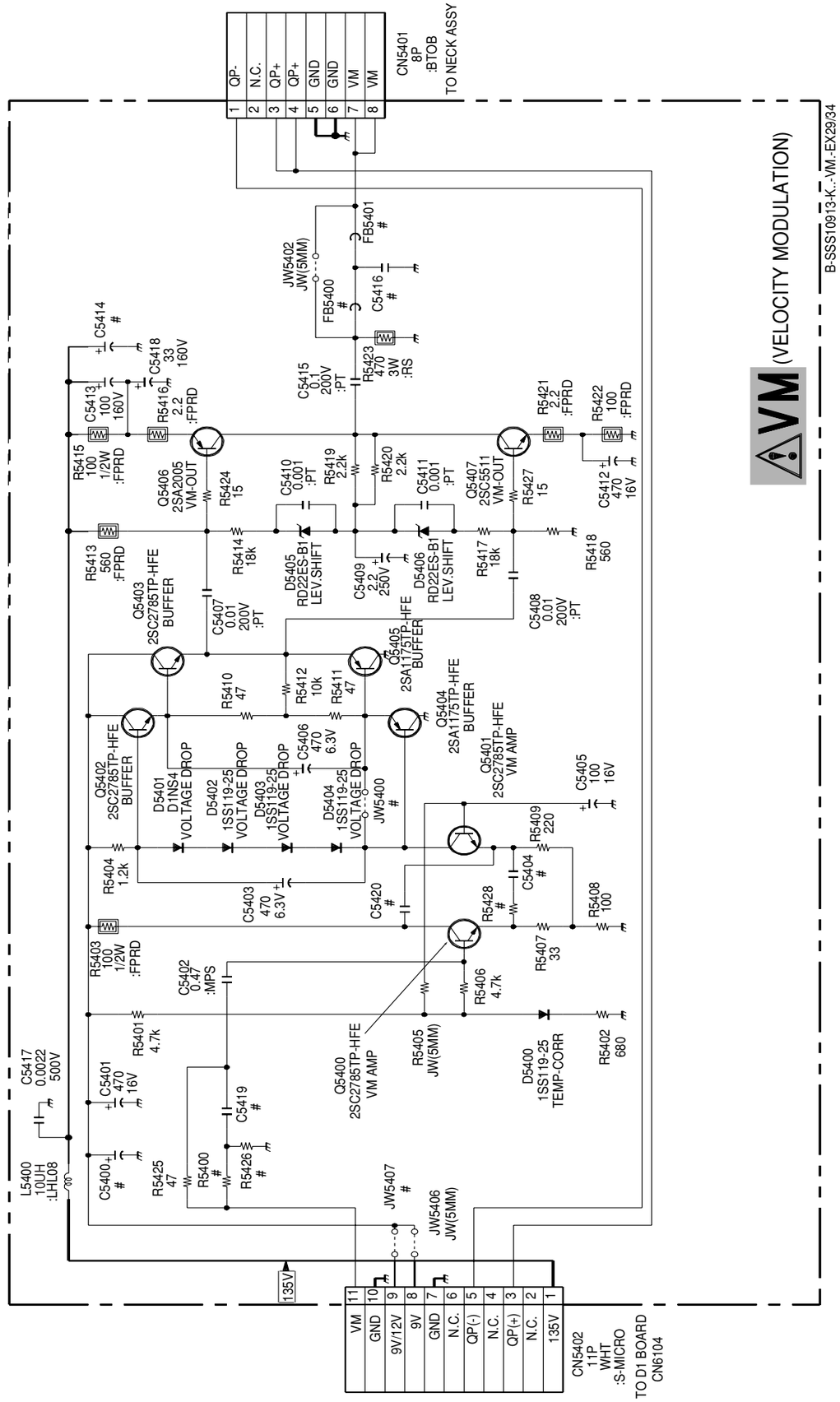
Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

KV-EX29K94/EX34K94
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(1) Schematic Diagrams of F1, J and VM Boards

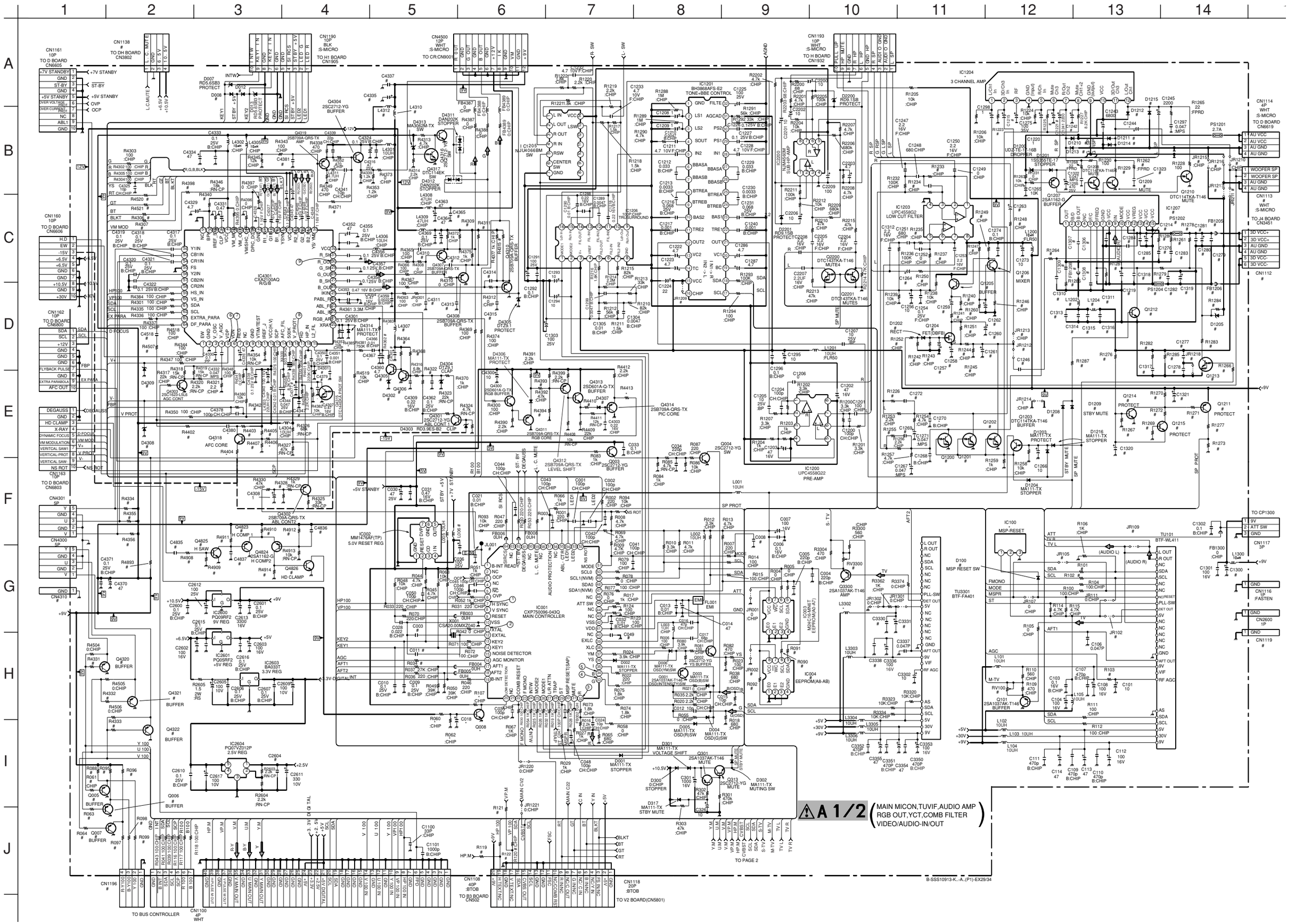






KV-EX29K94/EX34K94
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(2) Schematic Diagram of A Board



KV-EX29K94/EX34K94 RM-965

⚠A 2/2 (MAIN MICON,TUVIF,AUDIO AMP RGB OUT,YCT,COMB FILTER VIDEO/AUDIO-IN/OUT)

CN8301 10P WHT :S-MICRO
TO H1 BOARD CN1934
R IN 1
GND 2
L IN 3
GND 4
Y IN 5
GND 6
CV IN 7
S IN 8
C IN 9
GND 10

C8330 1 16V F:CHIP
C8331 1 16V F:CHIP
C8300 0.47 16V B:CHIP
C8349 4.7 10V F:CHIP
C8348 2.2k :CHIP
C8382 0.1 25V B:CHIP
R8351 4.7k :CHIP
R8352 4.7k :CHIP
R8305 470k :CHIP
R8326 470k :CHIP
R8330 75 :CHIP
R8337 75 :CHIP
R8344 75 :CHIP
D8320 RD9.1SB PROTECT
D8322 RD9.1SB PROTECT
D8323 RD9.1SB PROTECT
D8324 RD9.1SB PROTECT
D8325 RD9.1SB PROTECT
C8301 470p CH:CHIP
C8302 470p CH:CHIP
R4
L4
Y4
CV4
S4
C4

J8301 S TERMINAL
J8302 12P E-B6
R8334 0 :CHIP
C8326 0.47 16V B:CHIP
R8327 0 :CHIP
C8317 0.1 25V B:CHIP
R8304 2.2k :CHIP
R8306 75 :CHIP
R8322 75 :CHIP
C8320 4.7 10V F:CHIP
D8301 RD9.1SB PROTECT
D8302 RD9.1SB PROTECT
D8321 RD9.1SB PROTECT
Y1
C1
S1

VIDEO IN 1
L/MONO
AUDIO
R8307 75 :CHIP
R8323 0 :CHIP
R8339 4.7k :CHIP
C8303 470p CH:CHIP
R8308 220k :CHIP
C8311 1 16V F:CHIP
R8343 4.7k :CHIP
C8304 470p CH:CHIP
R8309 220k :CHIP
C8312 1 16V F:CHIP
D8303 RD9.1SB PROTECT
D8304 RD9.1SB PROTECT
D8305 RD9.1SB PROTECT
CV1
L1
R1

VIDEO IN 2
L/MONO
AUDIO
R8310 75 :CHIP
R8324 0 :CHIP
C8321 4.7 10V F:CHIP
R8340 4.7k :CHIP
C8305 470p CH:CHIP
R8311 220k :CHIP
C8322 16V F:CHIP
R8341 4.7k :CHIP
C8306 470p CH:CHIP
R8312 220k :CHIP
C8323 1 16V F:CHIP
D8306 RD9.1SB PROTECT
D8307 RD9.1SB PROTECT
D8308 RD9.1SB PROTECT
CV2
L2
R2

VIDEO IN 3
L/MONO
AUDIO
R8313 75 :CHIP
R8325 0 :CHIP
C8324 4.7 10V F:CHIP
R8342 4.7k :CHIP
C8307 470p CH:CHIP
R8314 220k :CHIP
C8313 16V F:CHIP
R8338 4.7k :CHIP
C8308 470p CH:CHIP
R8315 220k :CHIP
C8314 16V F:CHIP
D8309 RD9.1SB PROTECT
D8310 RD9.1SB PROTECT
D8311 RD9.1SB PROTECT
CV3
L3
R3

VIDEO OUT MONITOR
L/MONO
AUDIO
R
R8303 68 :CHIP
R8316 470k :CHIP
C8325 470 16V
R8349 1k :CHIP
R8301 470 :CHIP
C8309 470p CH:CHIP
R8328 470k :CHIP
C8318 1 16V F:CHIP
R8350 1k :CHIP
R8302 :CHIP
R8329 470k :CHIP
C8319 1 16V F:CHIP
D8312 RD9.1SB PROTECT
D8313 RD9.1SB PROTECT
D8314 RD9.1SB PROTECT
C8310 470p CH:CHIP

IC2300 # MULTICOMB FILTER
INSEL
OUTSEL
DGND
VDD
VCC
SC
FSCSEL
C OUT
Y OUT
AGND
V IN
SYS1
SYS2
FSC
C2307 #
R2310 #
R2316 #
R2311 #
C2310 #
C2311 #
C2303 #
C2301 # -2
C2304 # -2
L2300
R2312 #
Q2304 # SW
Q2305 # BUFFER
C2308 #
R2313 #
R2314 #
R2315 #
JR2301 #
Q2306 # BUFFER
FB2300 1.1UH -2

FL8301 EMI
C8336 47 16V
C8337 0.1 25V B:CHIP
Q8302 2SC2712-YG BUFFER
Q8325 2SC2712-YG
Q8303 2SC2712-YG BUFFER
R8364 470 :CHIP
R8367 470 :CHIP
R8378 220 :CHIP
R8379 220 :CHIP
R8476 220 :CHIP
JR8303 #
R8380 100 :CHIP
R8382 220 :CHIP
R8383 220 :CHIP
R8509 100 :CHIP
R8477 220 :CHIP
R8384 #
Q8304 # BUFFER
Q8306 2SC2712-YG BUFFER
R8388 # :CHIP
R8389 # :CHIP
R8395 220 :CHIP
R8396 220 :CHIP
Q8301 2SA1037AK-T146 BUFFER
R8377 100 :CHIP
R8370 100 :CHIP
C8346 0.1 25V B:CHIP
C8343 47 16V
MAIN-C
MAIN-CV
MAIN-CV2
MAI IN-Y
CVBST
SUB-CV
FSC
CV
L
R
CVBS

R8376 1k :CHIP
C8342 10
R OUT
L OUT
AGND
R8381 100 :CHIP
R8399 100 :CHIP
R8400 100 :CHIP
SDA
SCL
R-SW
L-SW
AGND

IC8302 CXA2069Q AV SW
C8379 4.7 10V F:CHIP
C8340 0.47 16V B:CHIP
C8341 0.47 16V B:CHIP
C8339 1 16V F:CHIP
C8338 1 16V F:CHIP
R8359 #
R8360 0.01P
R8366 2.2k :CHIP
R8365 2.2k :CHIP
R8355 0 :CHIP
R8356 0 :CHIP
S-TV
M-TV
TV L
TV R
CV1 L1 Y1 R1 C1 S1-1 S1 CV2 L2 R2 S2-1 S2 CV3 L3 R3 V1 LV1 V2 RV2 C2 S2-2 V3 LV3 RV3 TV

CN8302 8P WHT S:MICRO
TO J BOARD CN2410
Y
GND
BY
GND
RY
GND
L
R

D8315 RD9.1SB PROTECT
D8316 RD9.1SB PROTECT
R8353 4.7k :CHIP
R8354 4.7k :CHIP

TO PAGE 1

FL8303 EMI
C8369 47 16V
C8372 0.1 25V B:CHIP
C8375 10
C8373 10p CH:CHIP
C8386 0.1 25V B:CHIP
R8300 22k :CHIP
R8321 #
R8331 #
R8332 #
R8333 #
C8377 1 16V F:CHIP
C8378 1 16V F:CHIP
C8380 1 16V F:CHIP
C8383 1 16V F:CHIP
C8384 1 16V F:CHIP
C8385 1 16V F:CHIP
C8387 # C8388 # C8389 # C8390 #
C8396 # C8395 # C8394 #
R8336 0 :CHIP
R8335 #
R8464 100 :CHIP
R8465 100 :CHIP
R8466 100 :CHIP
C8392 0.1 25V B:CHIP
R8468 470 :CHIP
R8467 470 :CHIP
R8469 470 :CHIP
Q8319 2SA1037AK-T146 BUFFER
Q8320 2SA1037AK-T146 BUFFER
Q8321 2SA1037AK-T146 BUFFER
RY
BY
Y
SELE
SY-IN
SU-IN
SV-IN

X8301 16.2MHz
R8411 27k :CHIP
C8366 0.01 B:CHIP
C8354 0.47 16V B:CHIP
C8355 0.01 B:CHIP
C8356 1 16V F:CHIP
C8357 0.01 B:CHIP
C8358 1 16V F:CHIP
R8593 100 :CHIP
R8414 3.9k :CHIP
C8361 2.2
C8359 0.022 B:CHIP
C8360 #
R8582 4.7M :CHIP
R8583 4.7M :CHIP
C8480 1MF 16V
R8584 4.7M :CHIP
C8376 0.1 25V B:CHIP
FL8304 EMI
MAIN-C
MAIN-Y
MAIN-CV2
Xtal
BPH-FIL
YS2/YM
R2
G2
B2
Y/C Vcc
Y2
C2
Y/C GND
R1
G1
B1
C3
APC-FIL
CVBS/Y3
ADD(88H)
C2
CVBS/Y2
COMB SYS
FSC OUT
AFC-FIL
C1
CVBS/Y1
SYNC IN
VS
COMB Y
D-VDD
C-COMB
FORCED S
C-GND
HS
SCP
Y FOR SYNC
SYNC-Vcc
SCL
SDA

IC8306 CXA2163Q-T6 COLOR DECODER
YS1
Cr OUT
Cb OUT
Y OUT
APL-FIL
Y1
Cb1
Cr1
SYNC-GND
YS3
C8391 0.1 25V B:CHIP
C8390 4.7
C8393 0.1 25V B:CHIP
R8417 100 :CHIP
R8418 100 :CHIP
SDA
SCL
DVD
DVD INPUT

C8461 #
C8460 #
IC8312 TC7SET08FU-TE85 LEVEL SHIFTER
IN B
IN A
GND
VCC
OUT
R8419 47 :CHIP

FL8305 EMI
C8367 47 16V
C8370 0.1 25V B:CHIP
R8416 #
R8471 100 :CHIP
C8381 0.01 B:CHIP
C8368 47 16V
C8371 0.1 25V B:CHIP
R8345 220 :CHIP
R8346 180 :CHIP
R8347 100 :CHIP
Q8310 2SC2712-YG BUFFER
R8413 #
Q8364 2SA1037K-T146 BUFFER
R8415 1k :CHIP
R8420 47 :CHIP
SUB-CV
VP.M
CVBST
MAIN-CV

C8447 0.1 25V B:CHIP
FL8311 EMI
C8446 47 16V
R8470 6.8k :CHIP
R8480 10k :CHIP
R8478 #
R8479 100k :CHIP
C8448 0.0022 CH:CHIP
Q8327 DTC144EKA SW
Q8328 DTC144EKA SW
IC8309 MM1115XFBE SW
C8449 #
C8450 0.47 16V B:CHIP
C8451 0.2 16V F:CHIP
R8483 #
YN
Y
+9V

Q8329 2SC2712-YG AMP
Q8330 2SC2712-YG AMP
Q8332 2SC2712-YG BUFFER
R8481 82k :CHIP
Q8326 2SC2712-YG SW
R8482 47k :CHIP
IC8310 TDA9178T/N1.118 PICTURE IMPROVEMENT PROCESSOR
R8484 680 :CHIP
R8487 680 :CHIP
C8452 0.1 25V B:CHIP
R8576 33 :CHIP
R8485 330 :CHIP
Q8331 2SC2712-YG AMP
R8489 1k :CHIP
R8490 1k :CHIP
R8486 1k :CHIP
R8488 470 :CHIP
SC
NC
ADEXT1
ADEXT2
ADEXT3
YIN
ADR
-UIN
-VIN
SCL
NC
NC
CR
SOUT
VCC
YOUT
VEE
-UOUT
-VOUT
DEC
SDA
NC
C8454 0.1 25V B:CHIP
C8455 47 16V
C8453 0.1 25V B:CHIP
R8507 100 :CHIP
R8508 100 :CHIP
BY
RY
YN
-BY
-RY

Q8334 2SC2712-YG BUFFER
Q8336 2SC2712-YG AMP
R8491 100 :CHIP
R8492 470 :CHIP
R8493 22k :CHIP
R8497 100 :CHIP
R8498 560 :CHIP
R8499 #
C8462 0.1 25V B:CHIP
R8538 470 :CHIP
C8459 0.1 25V B:CHIP
Q8352 2SA1037AK-T146 BUFFER
Q8337 2SC2712-YG BUFFER
R8516 1k :CHIP
R8517 #
Y.M
Q8344 2SA1037AK-T146 BUFFER
Q8351 2SC2712-YG AMP
R8513 820 :CHIP
R8514 390 :CHIP
R8515 0 :CHIP
R8550 #
R8579 0 :CHIP
R8551 1k :CHIP
R8552 #
R8357 47 :CHIP
R8518 820 :CHIP
R8519 820 :CHIP
R8520 #
Q8358 DTC144EKA SW
Q8359 DTC144EKA SW
Q8360 DTC144EKA BUFFER
V.M
U.M
R8572 0 :CHIP
Q8333 2SC2712-YG AMP
R8495 22k :CHIP
R8496 1k :CHIP
R8494 470 :CHIP
C8478 #
R8573 0 :CHIP
R8581 #
R8578 220 :CHIP
R8500 220 :CHIP
R8501 22k :CHIP
R8502 1k :CHIP
R8554 #
C8479 #
R8361 47 :CHIP
R8358 47 :CHIP
C8476 #
C8477 #
L8305 #
R8549 #
R8539 #
R8540 470 :CHIP
C8435 0 :CHIP
C8475 #
R8536 100 :CHIP
C8431 47p CH:CHIP
C8432 330 CH:CHIP
C8433 #
L8302 47UH :CHIP
L8303 47UH :CHIP
L8304 47UH :CHIP
C8430 4.7 10V F:CHIP
C8441 1 16V F:CHIP
R8452 47k :CHIP
R8448 100 :CHIP
R8453 100k :CHIP
R8454 47k :CHIP
R8449 100 :CHIP
R8455 100k :CHIP
R8446 1k :CHIP
C8413 4.7 10V F:CHIP
R8450 47k :CHIP
R8451 100k :CHIP
R8447 100 :CHIP
R8441 1k :CHIP
C8411 4.7 10V F:CHIP
Q8361 2SC2712-YG BUFFER
Q8362 2SC2712-YG BUFFER
Q8363 2SC2712-YG BUFFER
R8442 1k :CHIP
HP.M
SUB-CV
VP.M
CVBST
BY
RY
+9V

CN8402 20P TO P BOARD CN8801 (TO PIP)
+9V
BY OUT
RY OUT
GND
SUB-CV/ Y OUT
NC
NC
GND
GND
SY-IN
SU-IN
SV-IN
GND
SELE
VP
HP
GND
+5V
SDA
SCL

GND

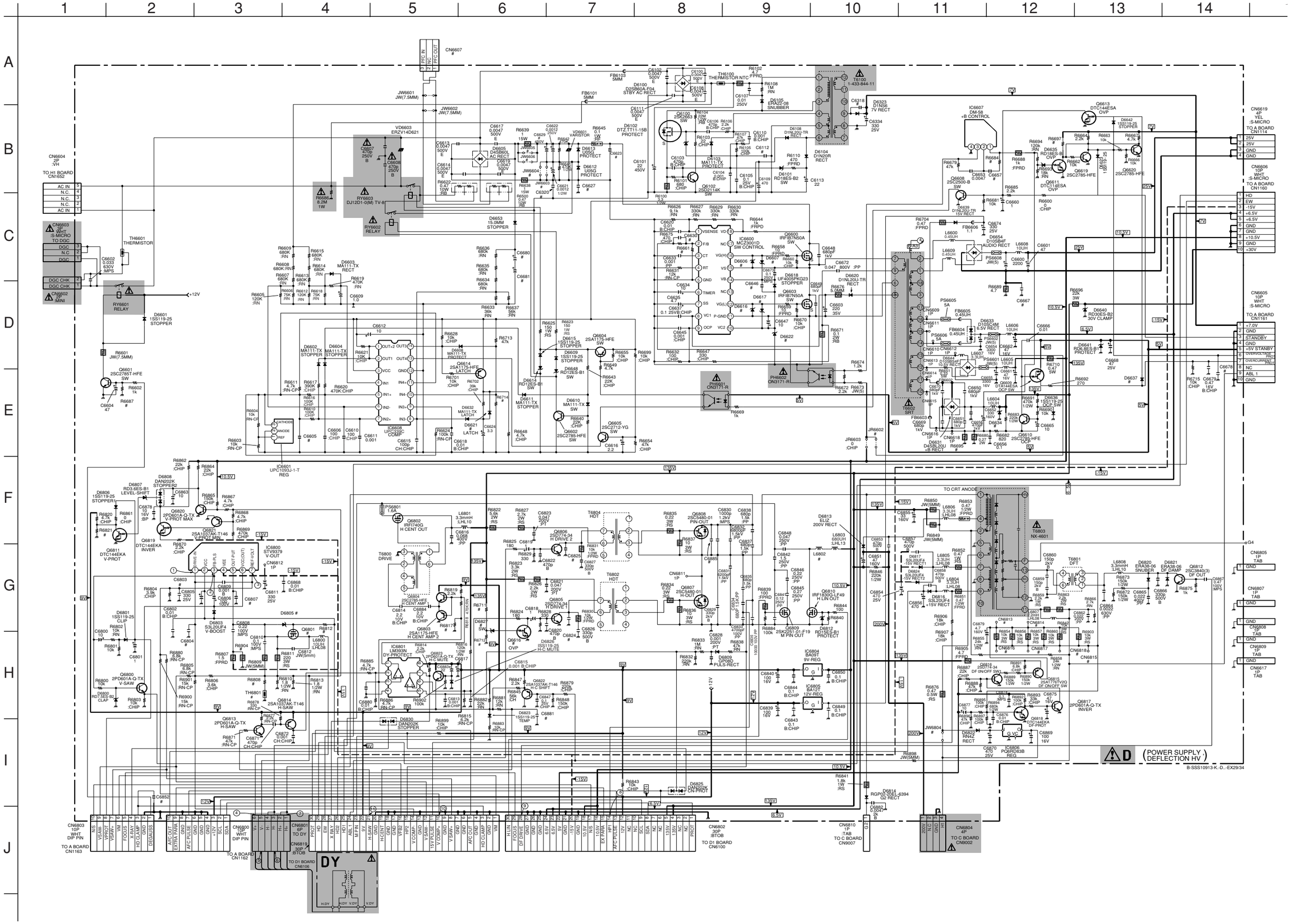
TRAP
Y.M
U.M
V.M
VP.M
HP.M

TO PAGE 1

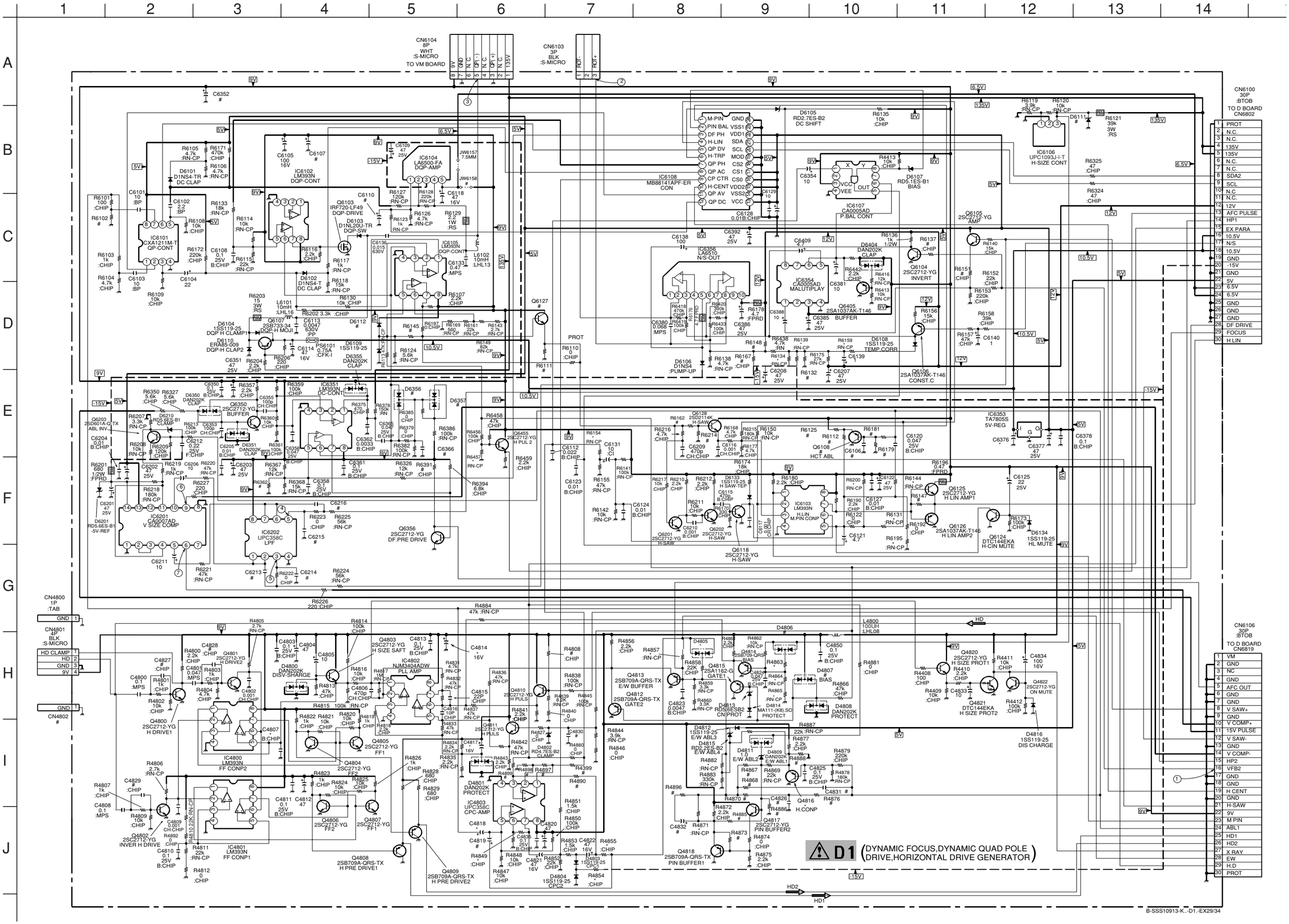
B-SSS10913-K...-A...(P2)-EX29/34

KV-EX29K94/EX34K94
RM-965

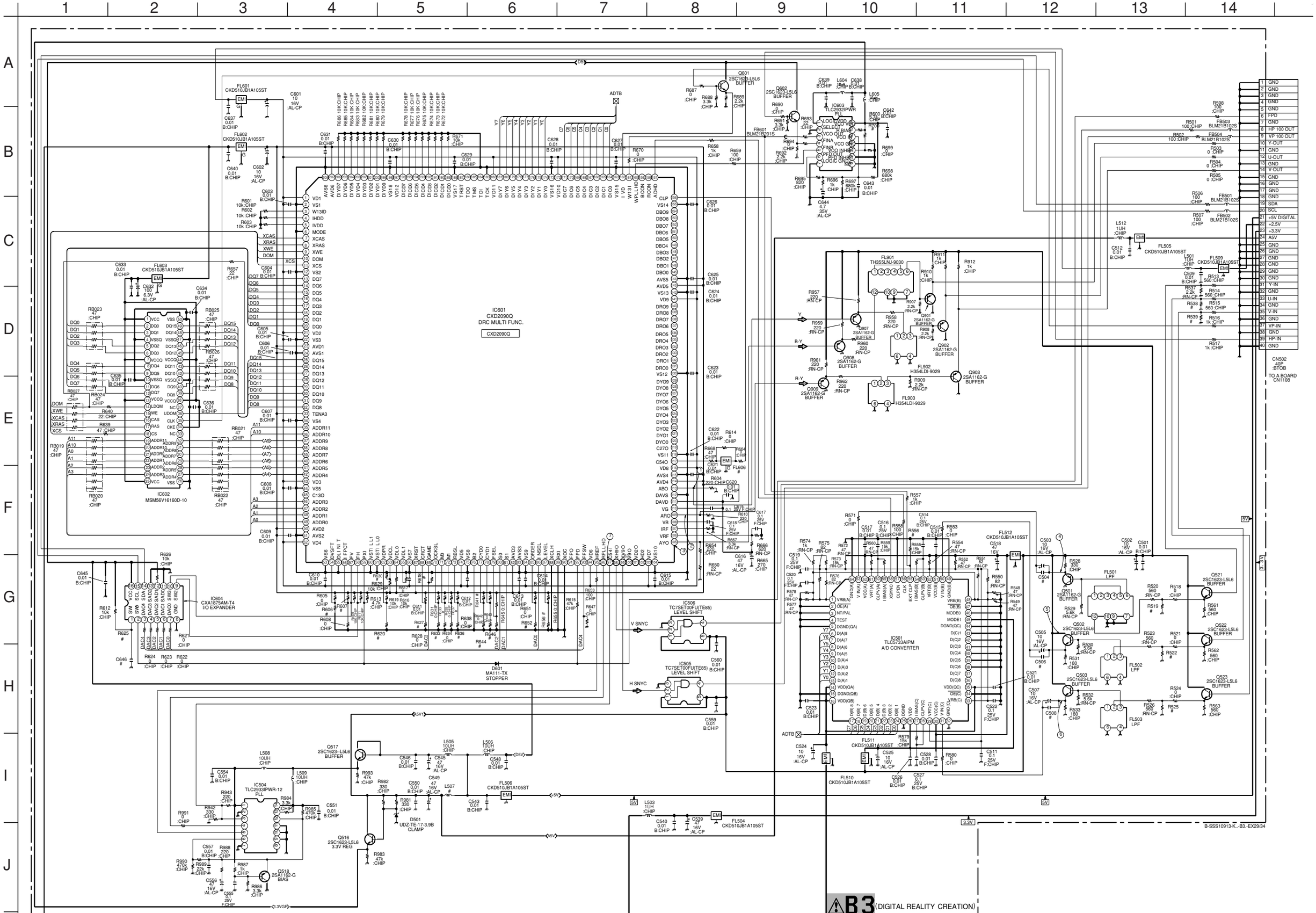
(3) Schematic Diagram of D Board



(4) Schematic Diagram of D1 Board

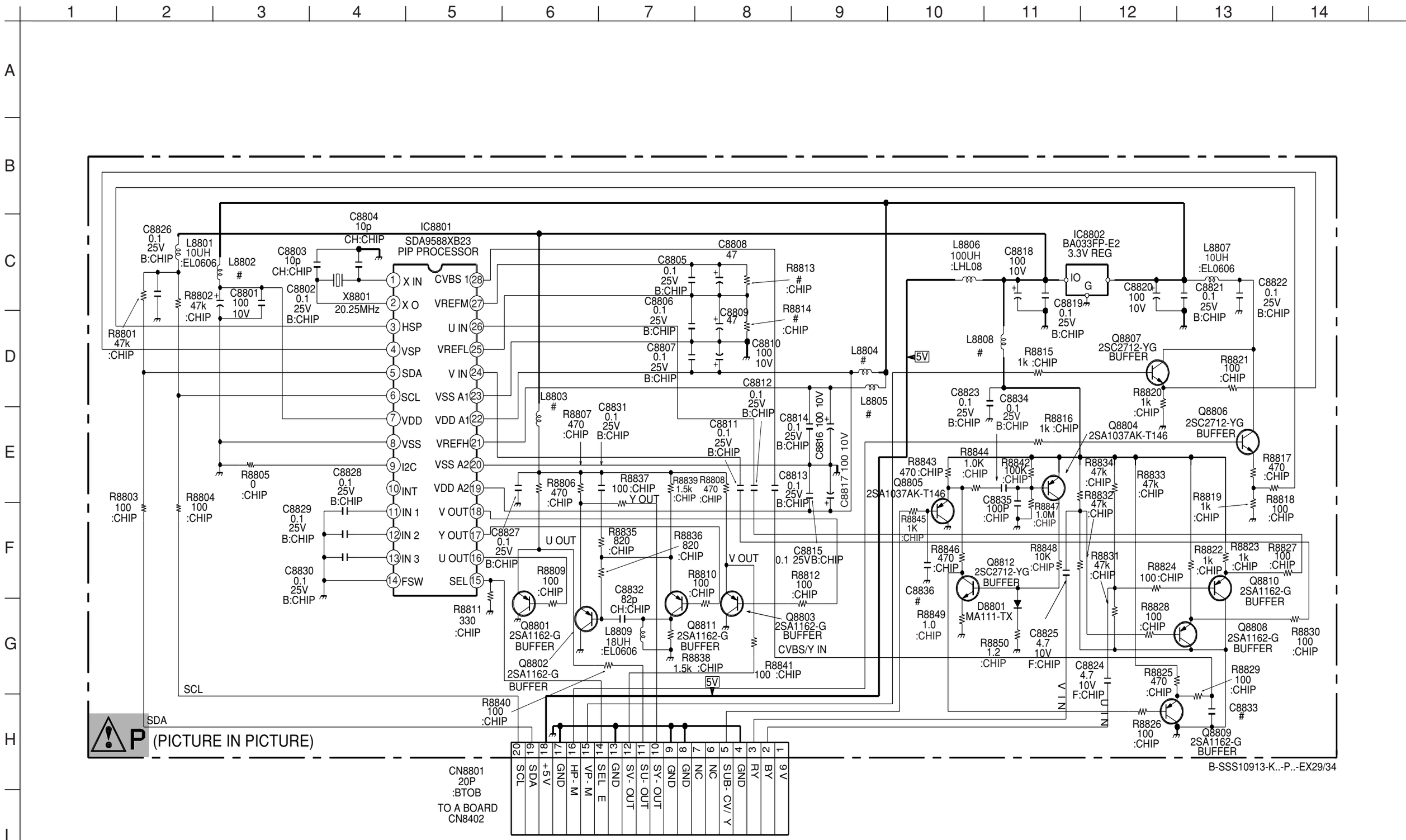


(5) Schematic Diagram of B3 Board

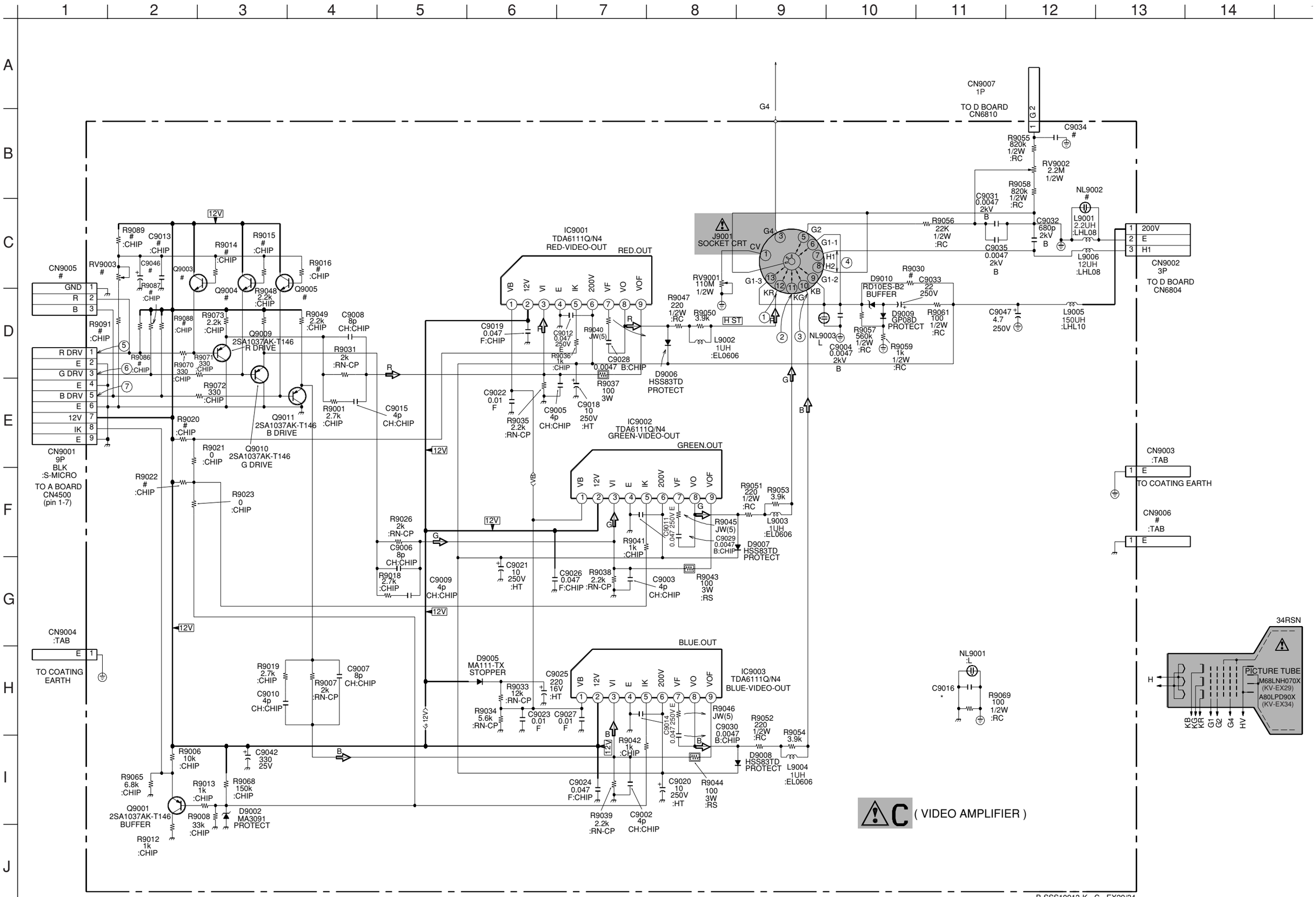


KV-EX29K94/EX34K94
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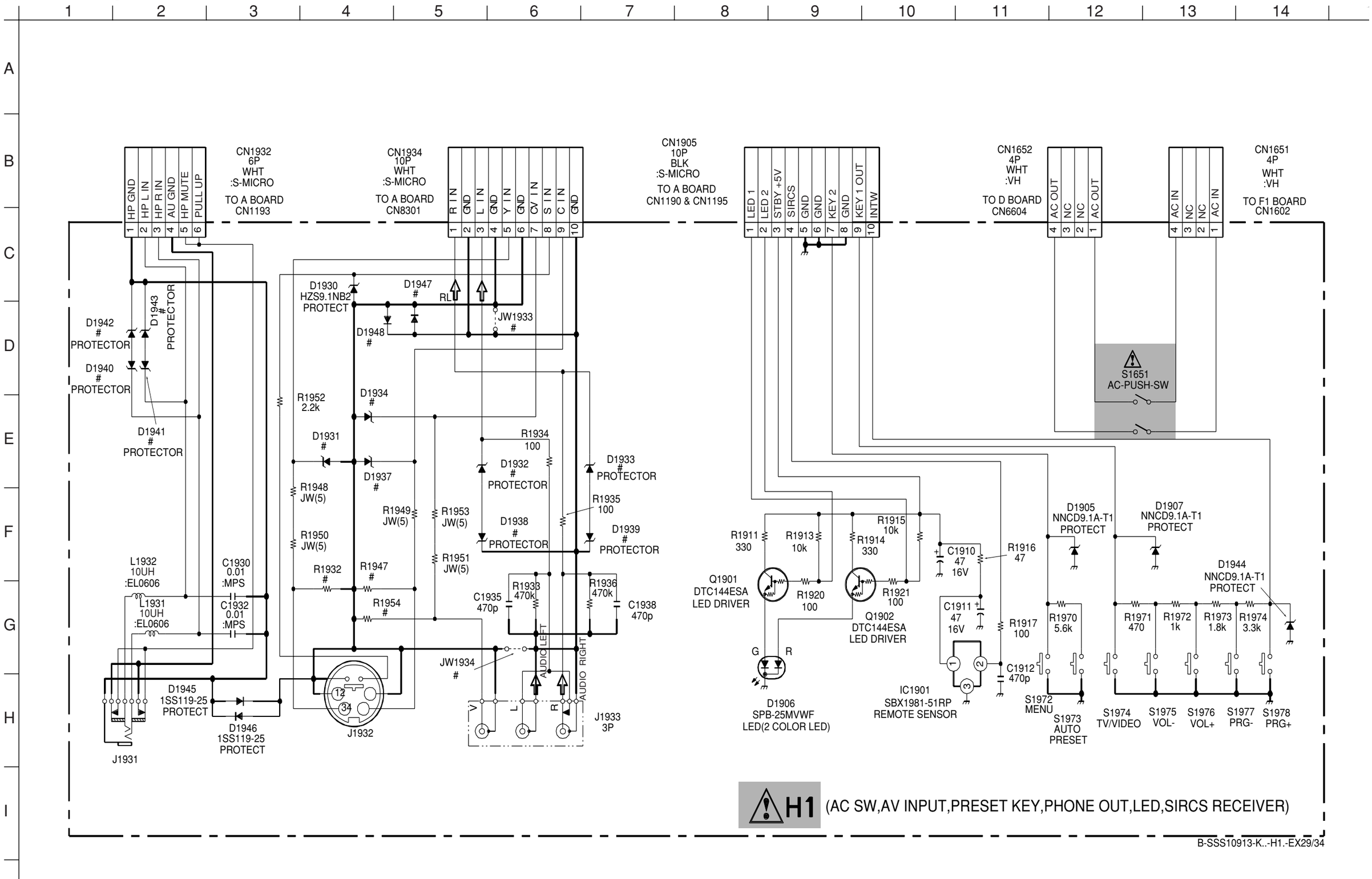
(6) Schematic Diagram of P Board



(7) Schematic Diagram of C Board



(8) Schematic Diagram of H1 Board



H1 (AC SW,AV INPUT,PRESET KEY,PHONE OUT,LED,SIRCS RECEIVER)

B-SSS10913-K..-H1.-EX29/34

KV-EX29K94/EX34K94
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(9) Schematic Diagram of BC4 Board

BC4 (3D COMB FILTER)

5V	A5V
5V-2	D5V
3.3V	A3.3V
3.3V-2	D3.3V
9V	9V

IC2003 MSM514265C-60JS MEMORY

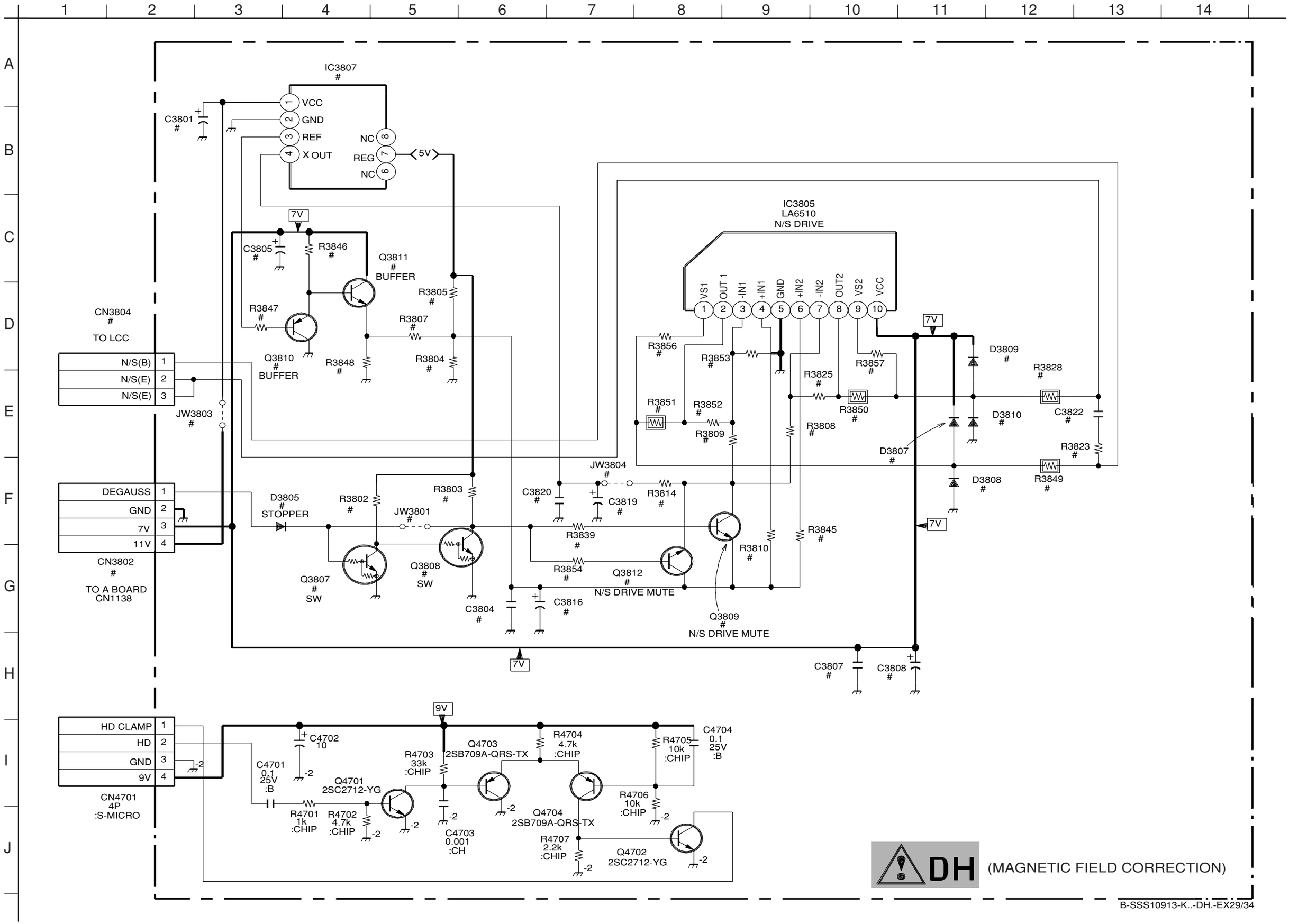
IC2004 UPD64082GF-3BA 3D COMB/HH DEC

IC2005 PQ3TZ53U 3.3VREG

CN2001 15P

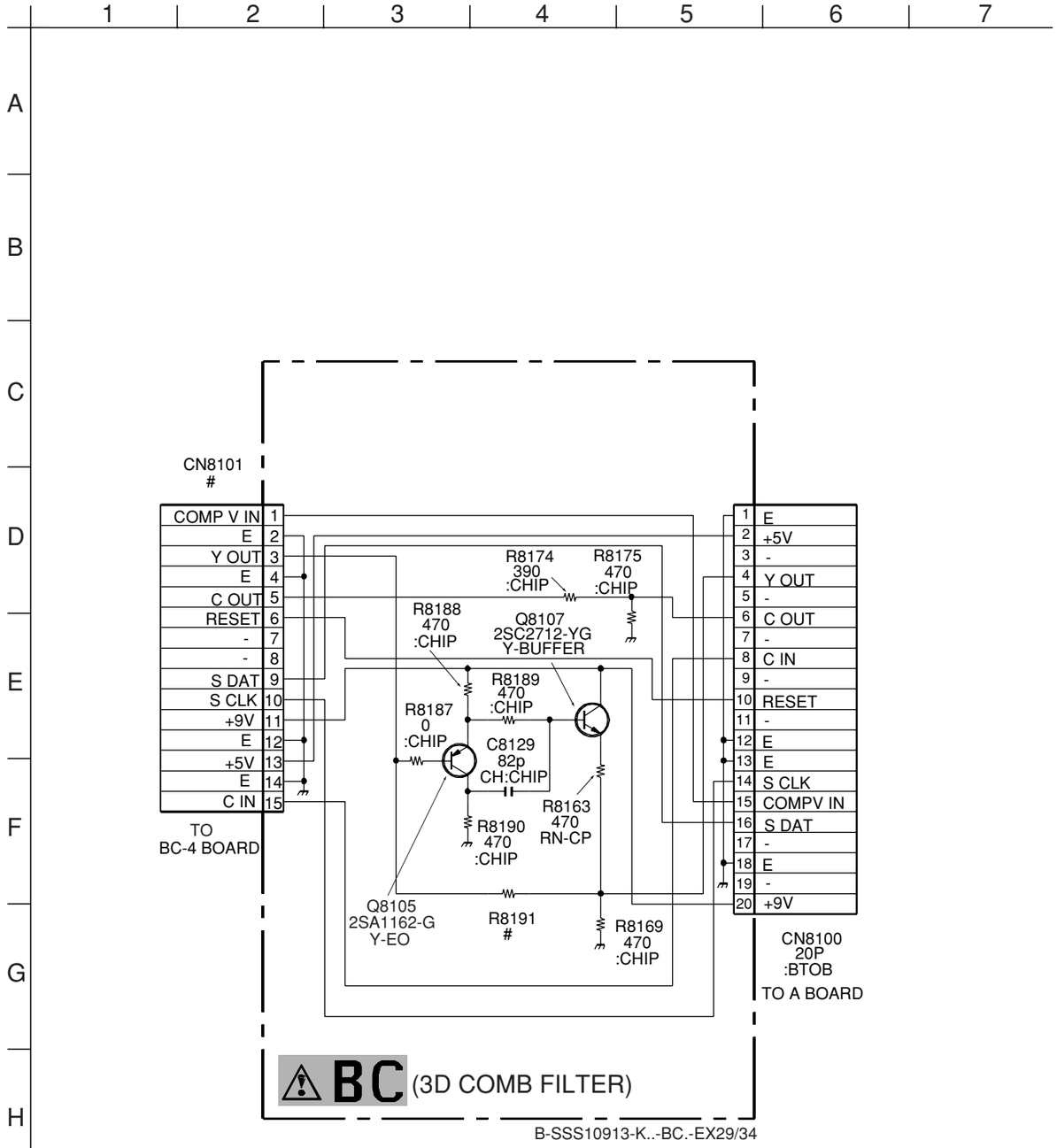
1	COMP V IN
2	E
3	Y OUT
4	E
5	C OUT
6	RESET
7	Y IN
8	MN/NT
9	S DAT
10	S CLK
11	9V
12	E
13	5V
14	E
15	C IN

(10) Schematic Diagram of DH Board



KV-EX29K94/EX34K94
RM-965

(11) Schematic Diagram of BC Board



A Board ✲ Mark List

	KV-EX29K94	KV-EX34K94
C018	#	10010V :CHIP
C1268	0.0047P :CHIP	0.0068P :CHIP
C1270	0.0047P :CHIP	0.0068P :CHIP
C4367	0.033P 50V :CHIP	0.033P 25V :CHIP
C4380	#	0.022 :CHIP
Q008	#	2SC2712-YG
Q4318	#	2SC2712-YG
R060	#	47K :CHIP
R062	#	6.8K :CHIP
R107	#	10K :CHIP
R4383	62K :CHIP	18K :CHIP
R4385	0K :CHIP	1M :CHIP
R4402	#	560K :RN
R4403	#	1K :CHIP
R4404	#	22K :CHIP
R4406	#	100K :CHIP
R4413	56K :CHIP	82K :CHIP

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

C Board ✲ Mark List

	KV-EX29K94	KV-EX34K94
C9016	100P :CHIP	220P :CHIP
D9013	0 :CHIP	MA111-TX
R9004	#	680K :CHIP

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

D1 Board ✲ Mark List

	KV-EX29K94	KV-EX34K94
C4807	1000P :CHIP	3300P :CHIP
C4814	47 25V	47 16V
C4817	47 25V	47 16V
C4818	2.2	10
C6376	47 25V	47 16V
D4805	#	DAN202K
Q4816	2SA1037AK-T146	2SB709A-QRS-TX
R4849	33K :CHIP	82K :CHIP
R4854	5.6K :CHIP	3.3K :CHIP
R4855	4.7K :CHIP	15K :CHIP
R4857	5.6K :CHIP	12K :CHIP
R4858	#	22K :CHIP
R4864	1.8K :CHIP	1.5K :CHIP
R4865	220 :CHIP	470 :CHIP
R4871	68K :CHIP	56K :CHIP
R4882	220K :CHIP	100K :CHIP
R6131	27K :CHIP	4.7K :CHIP
R6134	7.5K :CHIP	10K :CHIP
R6139	7.5K :CHIP	4.3K :CHIP
R6144	270K :CHIP	#
R6154	6.8K :CHIP	10K :CHIP
R6159	5.6 :CHIP	6.8K :CHIP
R6195	10K :CHIP	5.6K :CHIP
R6200	75K :CHIP	180K :CHIP
R6457	22K :CHIP	39K :CHIP

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

D Board ✲ Mark List

	KV-EX29K94	KV-EX34K94
C6816	0.047 400V :PP	0.068 400V :PP
C6828	0.001 200V :PT	0.01 200V :PT
C6829	100P 2KV :CHIP	330P 2KV :CHIP
C6830	#	1000P 1.2KV :MPS
C6831	6200P 1.5KV :MPS	8200P 1.5KV :MPS
C6832	6800P 1.5KV :MPS	0.012 1.5KV :MPS
C6842	0.47 250V :PP	1.5 250V :PP
C6845	0.22 250V :PP	0.27 250V :PP
C6846	0.18 250V :PP	0.22 250V :PP
C6860	220P 2KV :CHIP	150P 2KV :CHIP
C6869	#	100 16V
C6870	#	470 25V
C6880	0.1 25V :CHIP	0.01 :CHIP
C6885	220P 2KV :CHIP	#
C6886	#	470P :CHIP
CN6804	3P	#
D6822	#	RN4Z
IC6806	#	PQ6RD83B
L6801	4.7MH	3.3UH
L6802	#	1.0MH
L6803	2.2MH	680UH
Q6802	IRF720-LF49	IRF1740G
R6804	3.9K :CHIP	3.3K :CHIP
R6806	3.9K :CHIP	3.3K :CHIP
R6826	2.7K 2W :RS	2.2K 2W :RS
R6827	3.3K 2W :RS	2.7K 2W :RS
R6845	180K :CHIP	56K :CHIP
R6855	27K 1/2W :RN	24K 1/2W :RN
R6858	27K 1/2W :RN	24K 1/2W :RN
R6865	180K :CHIP	150K :CHIP
R6866	3.3K :RN	2.7K :RN
R6869	560K :CHIP	470K :CHIP
R6876	1.5 3W :RS	0.47 1/2W
R6881	22K :RN	12K :RN
R6882	30K :RN	22K :RN
R6900	15K :CHIP	12K :CHIP
R6901	15K :CHIP	12K :CHIP
T6803	NX4522//J1B4	NX-4601//J1B4

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

F1 Board ✲ Mark List

	KV-EX29K94	KV-EX34K94
F1601	FUSE - 5A/250V	FUSE - 6.3A/250V

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

8-3. VOLTAGE MEASUREMENTS

A(1/4) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC001	1	4.8
	2	0
	3	0
	4	0.8
	5	0.8
	6	0
	7	0.4
	8	0
	9	4.9
	10	0
	11	2.2
	12	[(❋)] <2.2>
	13	4.9
	14	4.9
	15	[(0.6)]<1.6>
	16	[(0.5)]<1.6>
	17	2.4
	18	1.0
	19	4.9
	20	0
	21	0
	22	4.9
	23	0
	24	[(0.5)]<1.6>
	25	0
	26	0
	27	4.9
	28	0
	29	4.8
	30	4.9
	31	4.9
	32	0
	33	0
	34	0
	35	4.9
	36	0
	37	0
	38	2.5
	39	2.5
	40	4.7
	41	4.9
	42	0
	43	[(0.5)]<1.6>
	44	0.6
	45	0
	46	0
	47	4.9
	48	4.7
	49	4.9
	50	4.6
	51	0
	52	2.6
	53	0
	54	[(4.5)]<0>
	55	0.1
	56	0
	57	0
	58	0
	59	0
	60	0
	61	0
	62	4.4
	63	0.4
	64	4.8
IC002	1	0
	2	4.9
	3	4.9
	4	7.0
	5	4.9
	6	0
	7	0.9
IC003	1	0
	2	0
	3	0
	4	0
	5	4.9
	6	4.9
	7	0
	8	4.9
IC004	1	0
	2	0
	3	<[4.9]>(0)
	4	0
	5	0
	6	4.9
	7	0
	8	[0]<(4.9)>
IC100	1	4.9
	2	4.9
	3	0
IC1200	1	4.5
	2	4.5
	3	4.5
	4	0
	5	<(4.5)>[4.9]
	6	4.5
	7	<(4.5)>[0]
	8	<(9.0)>[0]
IC1201	1	0
	2	<[0]>(0.9)
	3	<(1.2)>[0]
	4	4.5
	5	4.5
	6	4.5
	7	4.5
	8	4.5
	9	4.5
	10	4.5
	11	4.5
	12	4.5
	13	<(0.6)>[0]
	14	2.5
	15	<(9.0)>[0.2]
	16	4.6
	17	4.6
	18	2.8
	19	<(0.6)>[0]
	20	4.5
	21	4.5
	22	4.5
	23	4.5
	24	4.5
	25	4.5
	26	4.5
	27	4.5
	28	4.5
	29	0<[(4.5)]>
	30	<(3.2)>[0]
	31	<(4.5)>[3.3]
	32	4.4
IC1203	1	4.5
	2	[0]<(4.5)>
	3	<[4.5]>(0)
	4	0
	5	4.5
	6	4.5
	7	4.5
	8	9.0
IC1204	1	0
	2	0
	3	27.5
	4	0
	5	0
	6	<(0.6)>[3.5]
	7	13.6
	8	1.4[3.5]<(0.9)>
	9	0
	10	28.3
	11	13.2
	12	13.4
IC1205	1	4.5
	2	4.5
	3	4.5
	4	4.5
	5	4.9
	6	0.4
	7	0
	8	0.2
	9	0.2
	10	0.2
	11	0.2
	12	<(0.2)>[0]
	13	4.9
	14	9.0
IC1206	1	✲
	2	✲
	3	✲
	4	✲
	5	✲
	6	✲
	7	✲
	8	✲
	9	4.5
	10	4.5
	11	4.5
	12	4.5
	13	4.5
	14	4.5
	15	4.5
	16	4.5
IC1207	1	0
	2	0
	3	0
	4	0.1
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	0
	13	0
	14	0
	15	0
IC2200	1	4.5
	2	4.5
	3	4.3
	4	0
	5	<(4.2)>[0]
	6	[(0)]<4.5>
	7	4.6
	8	9.1

A(2/4) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC2300	1	0.9
	2	2
	3	1.3
	4	0
	5	4.9
	6	4.9
	7	1.5
	8	0
	9	0.6
	10	[(3.6)]<0>
	11	[(0)]<4.9>
	12	1.4
	13	0
	14	1.5
	15	0
	16	1.5
IC2600	I	13.0
	G	9.1
	O	0
IC2601	I	7.5
	G	0
	O	5.0
IC2603	I	7.3
	G	0
	O	3.3
IC2604	1	1.2
	2	2.6
	3	4.8
IC4301	1	4.0
	2	0
	3	4.4
	4	4.7
	5	3.5
	6	<[3.4]>(0)
	7	7.6
	8	0
	9	0
	10	0.4
	11	1.8
	12	[0]<(9.1)>
	13	1.0
	14	5.1
	15	2.6
	16	0
	17	3.5
	18	2.7
	19	4.2
	20	0
	21	[0]<(6.3)>
	22	1.7
	23	[6.5]<(0)>
	24	0
	25	0
	26	2.4
	27	3.3
	28	2.6
	29	2.6
	30	2.4
	31	3.3
	32	9.1
	33	0
	34	4.8
	35	4.8
	36	4.8
	37	9.1
	38	0
	39	[0]<(4.3)>
	40	4.3
	41	4.3
	42	0
	43	0
	44	0
	45	[0]<(6.6)>
	46	[0]<(9.1)>
	47	9.1
	48	6.0
	49	2.6
	50	4.1
	51	0
	52	0
	53	6.0
	54	6.0
	55	0
	56	6.0
	57	6.0
	58	6.0
	59	0.4
	60	0
	61	4.6
	62	[0]<(4.6)>
	63	4.4
	64	3.6
IC8302	1	4.4
	2	4.5
	3	4.0
	4	[0]<(4.5)>
	5	4.4
	6	0.1
	7	5.0
	8	4.0
	9	4.5
	10	[0]<(4.2)>
	11	0.3
	12	4.4
	13	0.1
	14	5.0
	15	4.0
	16	4.5
	17	4.2
	18	4.5
	19	4.4
	20	0.1
	21	[0]<(5.0)>
	22	4.0
	23	4.5
	24	4.0
	25	4.5
	26	4.4
	27	0.1
	28	5.0
	29	4.5
	30	[0]<(4.5)>
	31	4.5
	32	0
	33	4.6
	34	4.6
	35	0
	36	0
	37	4.4
	38	4.5
	39	3.8
	40	4.5
	41	4.5
	42	9.0
	43	4.5
	44	4.3
	45	4.5
	46	3.8
	47	[0]<(4.4)>
	48	0
	49	4.2
	50	4.5
	51	4.4
	52	4.5
	53	4.5
	54	4.5
	55	[0]<(3.8)>
	56	3.2
	57	0
	58	[0]<(4.3)>
	59	4.5
	60	4.2
	61	4.5
	62	4.5
	63	4.3
	64	4.5
IC8305	I	13.1
	G	0
	O	9.1
IC8306	1	<[0]>(2.2)
	2	[0.1]<(1.9)>
	3	[0]<(1.6)>
	4	0.1
	5	2.6
	6	4.9
	7	2.6
	8	0
	9	0.3
	10	0.9
	11	2.5
	12	4.9
	13	4.6
	14	4.6
	15	0
	16	0
	17	2.5
	18	2.5
	19	1.4
	20	2.3
	21	1.8
	22	1.8
	23	[0]<(1.8)>
	24	0.1
	25	[0]<(1.9)>
	26	[0]<(1.9)>
	27	[0]<(1.9)>
	28	0
	29	<[0]>(2.0)
	30	[0](2.0)<1.6>
	31	<[0]>(1.2)
	32	[0.1]<(4.9)>
	33	[0.1]<(2.5)>
	34	[0]<(2.5)>
	35	[0]<(2.50)>
	36	0
	37	[0]<(1.1)>
	38	3.9
	39	1.8
	40	3.3
	41	[0]<(2.3)>
	42	0
	43	0
	44	[0]<(2.3)>
	45	3.6
	46	2.3
	47	[0]<(3.6)>
	48	1.7

A(3/4) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC8309	1	3.0
	2	5.3
	3	2.8
	4	0
	5	0
	6	9.0
	7	2.0
	8	0
IC8310	1	0.8
	2	0
	3	0
	4	0
	5	0
	6	2.0
	7	0
	8	5.0
	9	5.8
	10	0
	11	4.6
	12	0
	13	0
	14	4.6
	15	5.1
	16	2.5
	17	2.5
	18	0
	19	2.9
	20	8.2
	21	2.5
	22	0.2
	23	0
	24	0
IC8312	1	4.9
	2	0.3
	3	0
	4	0
	5	4.9
Q001	B	4.9
	C	0
	E	0.6
Q002	B	0
	C	4.9
	E	0
Q003	B	0.4
	C	4.9
	E	0.3
Q004	B	0.1
	C	0
	E	0
Q005	B	1.6
	C	0
	E	2.2
Q006	B	1.8
	C	0
	E	2.4
Q007	B	1.8
	C	0
	E	2.4
Q101	B	<(2.8)>[0]
	C	0
	E	3.4
Q301	B	[0]<(12.9)>
	C	0
	E	12.3
Q313	B	*
	C	*
	E	*
Q1203	B	0
	C	5.0
	E	(0.2)<[0]>
Q1204	D	0
	G	0
	S	0
Q1205	B	[(0)]<5.5>
	C	[(0)]<9.0>
	E	[0]<(4.9)>
Q1206	B	2.9
	C	<5.5>[(0)]
	E	<(2.3)>[0]
Q1207	B	28.0
	C	0
	E	18.1
Q1208	B	0
	C	13.2
	E	0
Q1209	B	0
	C	13.2
	E	0
Q1210	B	0
	C	<(13.4)>[0]
	E	0
Q1211	B	9.0
	C	0
	E	9.0
Q1215	B	0
	C	[0]<(9.0)>
	E	0
Q2200	B	0
	C	0
	E	0
Q2201	B	0
	C	0
	E	0
Q2304	B	[(3.6)]<0>
	C	[(0)]<4.9>
	E	0
Q2305	B	[(2.3)]<3.1>
	C	4.9
	E	[(1.5)]<2.3>
Q2306	B	0.8
	C	0
	E	1.5
Q3300	B	<(4.6)>[0]
	C	0
	E	4.6
Q4300	B	6.2
	C	9.1
	E	<(5.5)>[0]
Q4301	B	-11.9
	C	1.7
	E	-11.7
Q4302	B	0
	C	11.7
	E	<(0.6)>[0]
Q4303	B	<(0.3)>[0]
	C	<(1.6)>[3.2]
	E	0
Q4304	B	7.1
	C	9.1
	E	6.5
Q4307	B	<(2.8)>[0]
	C	<(0)>[4.5]
	E	0
Q4308	B	2.5
	C	0
	E	3.2
Q4310	B	2.4
	C	0
	E	[0]<(3.1)>
Q4311	B	5.5
	C	0
	E	6.2
Q4312	B	8.0
	C	1.4
	E	8.6
Q4313	B	*
	C	*
	E	*
Q4314	B	0.9
	C	0
	E	1.6
Q4315	B	[(3.2)]<3.5>
	C	0
	E	0
Q4316	B	<(3.0)>[2.5]
	C	<(4.5)>[0]
	E	3.2
Q4317	B	<(0)>[3.1]
	C	4.5
	E	<(0)>[3.2]
Q4319	B	6.5
	C	1.9
	E	7.1
Q4320	B	1.6
	C	0
	E	2.2
Q4321	B	1.8
	C	0
	E	2.4
Q4322	B	1.8
	C	0
	E	2.4
Q4823	B	1.1
	C	0
	E	1.7
Q4824	B	*
	C	*
	E	*
Q4825	B	[(0)]<-1.0>
	C	[9.1]<(0)>
	E	[0.8]<(0)>
Q4826	B	*
	C	*
	E	*
Q8301	B	4.5
	C	0
	E	5.2
Q8302	B	4.4
	C	9.0
	E	3.8
Q8303	B	4.4
	C	9.0
	E	3.7
Q8304	B	4.4
	C	9.0
	E	3.8
Q8306	B	4.2
	C	9.0
	E	3.6

A(4/4) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
Q8308	B	3.8	Q8330	B	5.6	Q8352	B	8.4
	C	9.0		C	9.0		C	3.7
	E	3.1		E	5.0		E	9.0
Q8309	B	4.4	Q8331	B	2.4	Q8358	B	0
	C	9.0		C	6.4		C	0
	E	3.8		E	1.8		E	0
Q8310	B	0.1	Q8332	B	6.4	Q8359	B	0
	C	4.9		C	9.0		C	0
	E	<(0.1)>[0]		E	5.8		E	0
Q8319	B	[0]<(1.8)>	Q8333	B	2.5	Q8360	B	0
	C	0		C	[(7.1)]<6.7>		C	0
	E	2.4		E	1.9		E	0
Q8320	B	1.8	Q8334	B	4.4	Q8361	B	3.0
	C	0		C	9.0		C	4.9
	E	2.4		E	3.8		E	2.4
Q8321	B	1.7	Q8335	B	2.5	Q8362	B	3.0
	C	0		C	<7.1>[(6.7)]		C	4.9
	E	2.3		E	1.9		E	2.4
Q8326	B	0.2	Q8336	B	4.4	Q8363	B	3.0
	C	3.4		C	9.0		C	5.0
	E	0		E	3.8		E	2.4
Q8327	B	3.5	Q8337	B	0	Q8364	B	1.6
	C	0.2		C	9.0		C	0
	E	0		E	0		E	2.2
Q8328	B	0.2	Q8344	B	0			
	C	5.3		C	0			
	E	0		E	0.7			
Q8329	B	2.4	Q8351	B	2.9			
	C	5.6		C	8.4			
	E	1.8		E	2.3			

D1(2/2) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
Q4821	B	4.3	Q6108	B	1.7	Q6202	B	-0.6
	C	0		C	0		C	2.6
	E	0		E	2.4		E	0
Q4822	B	0	Q6118	B	0	Q6203	B	-6.0
	C	0		C	4.1		C	-2.3
	E	0		E	0		E	-6.6
Q6103	D	30.2	Q6124	B	0	Q6350	B	0.4
	G	4.4		C	1.5		C	2.1
	S	0		E	0		E	0
Q6104	B	0.6	Q6125	B	1.5	Q6356	B	0.4
	C	2.9		C	8.9		C	1.7
	E	0		E	1.6		E	0
Q6105	B	3.4	Q6126	B	1.5	Q6405	B	-0.6
	C	5.0		C	0		C	-4.5
	E	2.9		E	1.6		E	0
Q6106	B	2.5	Q6128	B	1.1	Q6455	B	2.6
	C	-3.3		C	8.9		C	8.9
	E	3.1		E	2.8		E	1.9
Q6107	B	10.8	Q6201	B	0.4			
	C	4.8		C	4.8			
	E	11.1		E	0			

D1(1/2) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC4800	1	0.3
	2	4.4
	3	4.5
	4	0
	5	4.5
	6	3.4
	7	0.4
	8	9.0
IC4801	1	0.3
	2	4.4
	3	4.5
	4	0
	5	4.5
	6	3.1
	7	0.4
	8	9.0
IC4802	1	4.5
	2	4.5
	3	4.5
	4	0
	5	0.8
	6	0.7
	7	3.5
	8	9.0
IC6101	1	2.6
	2	2.0
	3	2.1
	4	0
	5	2.1
	6	2.4
	7	2.6
	8	5.0
IC6102	1	0
	2	1.7
	3	1.8
	4	0
	5	5.0
	6	4.5
	7	4.5
	8	9.0
IC6103	1	2.9
	2	1.6
	3	1.4
	4	0
	5	1.1
	6	4.0
	7	1.2
	8	9.0
IC6104	1	2.0
	2	2.4
	3	-15.4
	4	1.4
	5	6.7
IC6105	1	5.5
	2	1.1
	3	2.0
	4	0.3
	5	1.7
	6	0.9
	7	2.0
	8	0.3
IC6106	1	2.5
	2	0
	3	8.9
IC6107	1	4.6
	2	0
	3	9.0
	4	0
	5	4.5
	6	4.5
	7	0
	8	6.5
IC6108	1	2.5
	2	2.6
	3	2.4
	4	0.8
	5	2.4
	6	1.4
	7	1.9
	8	2.8
	9	1.2
	10	3.1
	11	2.0
	12	2.5
	13	0
	14	0
	15	0
	16	0
	17	0
	18	0
	19	0
	20	4.6
	21	4.6
	22	5.0
	23	0
	24	0
IC6201	1	0
	2	0
	3	0
	4	-21.7
	5	0
	6	0
	7	0
	8	0
	9	0
	10	0
	11	2.17
	12	0
	13	5.0
	14	5.0
IC6202	1	3.5
	2	3.5
	3	3.4
	4	0
	5	3.4
	6	3.4
	7	3.4
	8	9.0
IC6351	1	5.2
	2	4.4
	3	4.8
	4	0
	5	4.1
	6	4.5
	7	0.4
	8	9.0
IC6353	I	11.0
	G	0
	O	0
IC6354	1	4.6
	2	0
	3	9.0
	4	0
	5	4.5
	6	4.5
	7	0
	8	3.4
IC6356	1	-2.8
	2	-6.3
	3	-3.0
	4	-3.3
	5	-15.0
	6	-3.5
	7	-3.0
	8	-4.0
	9	-4.1
	10	11.7
Q4800	B	1.2
	C	3.3
	E	0
Q4801	B	0.6
	C	5.6
	E	0
Q4802	B	1.3
	C	4.4
	E	0
Q4803	B	0
	C	8.9
	E	5.1
Q4804	B	0.4
	C	3.8
	E	0
Q4805	B	0.3
	C	4.8
	E	0
Q4806	B	0.4
	C	3.9
	E	0
Q4807	B	0
	C	4.8
	E	0
Q4808	B	0
	C	4.2
	E	3.2
Q4809	B	0.5
	C	0.8
	E	0
Q4810	B	0.1
	C	8.9
	E	0.4
Q4811	B	0
	C	8.9
	E	0.2
Q4812	B	1.4
	C	0
	E	0.8
Q4813	B	2.6
	C	0
	E	0.8
Q4814	B	1.8
	C	0
	E	0.7
Q4815	B	1.4
	C	0
	E	0.7
Q4816	B	1.8
	C	0
	E	2.4
Q4817	B	3.9
	C	8.9
	E	3.3
Q4818	B	3.3
	C	0
	E	3.9
Q4820	B	4.5
	C	0
	E	5.2

B3(1/3) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC501	1	0
	2	0
	3	0
	4	0
	5	0
	6	0.6
	7	0.2
	8	1.2
	9	0
	10	1.5
	11	0
	12	1.3
	13	0
	14	3.3
	15	-0
	16	3.3
	17	1.2
	18	1.6
	19	1.8
	20	1.6
	21	2.0
	22	1.9
	23	1.7
	24	1.8
	25	-0
	26	4.8
	27	2.4
	28	0
	29	3.4
	30	4.8
	31	2.4
	32	0
	33	1.4
	34	0
	35	0
	36	1.4
	37	1.4
	38	0
	39	0
	40	0
	41	0
	42	0
	43	0
	44	0
	45	4.8
	46	0
	47	0
	48	0
	49	0
	50	2.4
	51	4.8
	52	3.4
	53	2.4
	54	0
	55	0
	56	1.4
	57	0
	58	0
	59	0
	60	1.5
	61	3.4
	62	0
	63	0
	64	0
IC504	1	0
	2	0
	3	0
	4	3.3
	5	1.6
	6	2.0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	2.1
	13	2.2
	14	0
IC505	1	0
	2	3.2
	3	4.8
	4	4.8
	5	0
IC506	1	0
	2	3.0
	3	0
	4	0
	5	0
IC602	1	3.3
	2	1.5
	3	1.4
	4	0
	5	1.1
	6	1.6
	7	3.3
	8	1.5
	9	1.4
	10	0
	11	1.4
	12	0.9
	13	3.3
	14	0.5
	15	3.2
	16	0
	17	3.1
	18	3.1
	19	0
	20	0
	21	0
	22	0
	23	0
	24	0
	25	3.3
	26	0
	27	0
	28	0
	29	0
	30	0
	31	0
	32	0
	33	0
	34	3.3
	35	1.5
	36	0.5
	37	0
	38	3.3
	39	1.6
	40	1.4
	41	0
	42	1.4
	43	1.7
	44	3.3
	45	1.6
	46	1.5
	47	0
	48	1.3
	49	0.8
	50	0
IC603	1	0
	2	0
	3	1.2
	4	0.2
	5	1.3
	6	1.3
	7	0
	8	0
	9	0
	10	0
	11	0
	12	1.3
	13	0
	14	3.3
IC604	1	4.9
	2	0
	3	0
	4	0.3
	5	0.3
	6	0.4
	7	0.3
	8	0
	9	3.2
	10	3.2
	11	0
	12	4.9
	13	0
	14	4.6
	15	4.6
	16	4.9

C BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC9001	1	3.4
	2	11.7
	3	3.3
	4	-0
	5	(8.3)<[8.8]>
	6	199
	7	<[149]>(144)
	8	<(159)>[154]
	9	(144)<[147]>
IC9002	1	3.4
	2	11.7
	3	3.3
	4	-0
	5	8.6
	6	199
	7	<(140)>[134]
	8	<(159)>[137]
	9	<[139]>(133)
IC9003	1	3.4
	2	11.8
	3	3.4
	4	<[-0]>(0.12)
	5	8.5
	6	198
	7	<[146]>(141)
	8	160
	9	143.9
J9001	3	520
	5	<(22.2)>[-0]
	8	160
	9	159
	10	156
Q9001	B	8.3
	C	0
	E	4.5
Q9009	B	3.0
	C	0
	E	3.6
Q9010	B	3.2
	C	0
	E	3.8
Q9011	B	2.9
	C	0
	E	3.6

B3(2/3) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC601	1	2.3		74	2.4		137	1.8
	2	0		66	0		138	0
	3	0		67	3.3		139	1.7
	4	0		68	0		140	1.3
	5	0		69	0.3		141	2.4
	6	0		70	0		142	0
	7	0		71	0		143	3.3
	8	0		72	3.3		144	0
	9	0		73	0		145	1.1
	10	0.4		74	2.4		146	0.9
	11	0		75	0		147	1.4
	12	0		76	0		148	1.4
	13	0		77	0		149	1.5
	14	0		78	3.3		150	1.8
	15	0		79	3.3		151	1.4
	16	0		80	0.3		152	1.7
	17	0		81	0.4		153	1.6
	18	0		82	3.2		154	1.7
	19	0		83	0		155	0
	20	1.5		84	0		156	0.1
	21	0		85	3.3		157	3.2
	22	0		86	0.3		158	0.9
	23	3.3		87	3.3		159	0.9
	24	0		88	0		160	1.3
	25	0		89	0		161	1.3
	26	0		90	0		162	0
	27	1.6		91	1.6		163	0
	28	0		92	1.6		164	1.5
	29	0		93	0		165	1.5
	30	0		94	2.4		166	1.7
	31	0		95	1.6		167	1.9
	32	1.6		96	0		168	1.4
	33	3.2		97	2.0		169	1.6
	34	-0		98	3.0		170	1.5
	35	0		99	0		171	1.5
	36	0		100	0		172	2.4
	37	0		101	0		173	0
	38	0		102	0.2		174	1.7
	39	0		103	2.4		175	1.4
	40	0		104	0		176	1.0
	41	0		105	0.3		177	1.5
	42	0		106	1.0		178	1.8
	43	2.3		107	1.2		179	0
	44	0		108	1.0		180	1.2
	45	1.2		109	0.5		181	0.6
	46	0		110	2.2		182	0
	47	0		111	3.3		183	0
	48	0		112	0		184	2.6
	49	0		113	0.5		185	2.6
	50	0		114	3.3		186	2.6
	51	0		115	3.3		187	2.6
	52	0		116	2.4		188	0
	53	0		117	1.5		189	0.3
	54	3.3		118	0		190	0
	55	0		119	0		191	0.3
	56	0		120	1.1		192	0
	57	2.9		121	1.1		193	0.3
	58	2.9		122	1.3		194	0
	59	0		123	1.3		195	0.3
	60	0		124	1.5		196	0.3
	61	0		125	1.5		197	2.3
	62	0		126	2.0		198	0
	63	2.9		127	1.3		199	0.3
	64	2.9		128	1.1		200	0.3
	65	0		129	0.1		201	0.3
	66	0		130	0.1		202	0.3
	67	3.3		131	1.0		203	0.3
	68	0		132	0.9		204	0.3
	69	0.3		133	1.8		205	0
	70	0		134	1.8		206	0.3
	71	0		135	2.3		207	3.3
	72	3.3		136	2.2		208	0
	73	0						

B3(3/3) BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
Q501	B	0	Q521	B	4.8	Q902	B	0
	C	2.9		C	2.4		C	0.8
	E	2.2		E	3.1		E	0.2
Q502	B	4.8	Q522	B	4.8	Q903	B	0.7
	C	2.1		C	3.1		C	0.8
	E	2.8		E	3.7		E	0.2
Q503	B	4.8	Q523	B	4.8	Q907	B	0
	C	2.1		C	3.0		C	1.2
	E	2.7		E	0		E	0.5
Q516	B	4.0	Q601	B	4.0	Q908	B	0
	C	2.5		C	0.7		C	1.0
	E	3.2		E	0		E	0.3
Q517	B	4.1	Q602	B	4.2	Q909	B	0
	C	3.4		C	0.4		C	1.2
	E	0		E	0.5		E	0
Q518	B	0.7	Q901	B	0.8			
	C	1.3		C	0.7			
	E	0		E	0			

P BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC8801	1	1.3		21	3.3	Q8806	B	0.3
	2	1.7		22	3.3		C	3.3
	3	0.2		23	0		E	0.3
	4	0.2		24	0.2	Q8807	B	0.1
	5	4.5		25	0		C	3.3
	6	4.4		26	0.3		E	0.1
	7	3.3		27	2.1	Q8808	B	2.6
	8	0		28	2.1		C	0
	9	0	IC8802	I	4.5		E	3.2
	10	0.8		G	0	Q8809	B	2.1
	11	0.5		O	3.3		C	0
	12	0.5	Q8801	B	0.6		E	2.7
	13	0.5		C	0	Q8810	B	2.6
	14	0.7		E	1.3		C	0
	15	0	Q8802	B	1.0		E	3.2
	16	0.3		C	0	Q8811	B	0.3
	17	0		E	1.7		C	0
	18	0.3	Q8803	B	0.6		E	1.0
	19	0		C	0			
	20	0		E	1.3			

DH BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC3805	1	4.2	Q3807	B	0
	2	3.8		C	4.8
	3	2.6		E	0
	4	2.6	Q3808	B	4.8
	5	0		C	0.1
	6	2.6		E	0
	7	2.6	Q3809	B	0.1
	8	2.6		C	1.5
	9	2.4		E	2.6
	10	6.6	Q3810	B	2.5
IC3807	1	10.8		C	0
	2	0		E	3.2
	3	2.5	Q3811	B	3.2
	4	1.7		C	6.6
	5	0		E	2.5
	6	0	Q3812	B	0.1
	7	4.9		C	2.6
	8	0		E	1.5

VM BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
Q5400	B	1.5	Q5404	B	5.2
	C	8.4		C	0
	E	0.9		E	5.9
Q5401	B	1.6	Q5405	B	5.9
	C	5.2		C	0
	E	1.0		E	6.2
Q5402	B	7.2	Q5406	B	134
	C	9.0		C	67.7
	E	6.6		E	134
Q5403	B	6.6	Q5407	B	1.3
	C	9.0		C	67.8
	E	6.2		E	0.8

H1 BOARD VOLTAGE LIST

Ref	Pin No.	Voltage[v]
IC901	1	4.9
	2	4.8
	3	0
Q1901	B	0.1
	C	4.9
	E	0.1
Q1902	B	4.5
	C	2.6
	E	1.8

D BOARD VOLTAGE LIST (KV-EX29 MODEL)

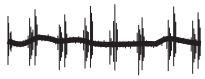
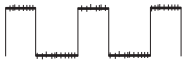
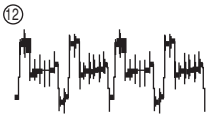
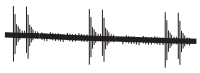
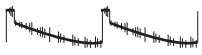
Ref	Pin No.	Voltage[v]
IC6600	1	2.7
	2	1.9
	3	2.2
	4	2.5
	5	0
	6	0
	7	4.6
	8	17.8
	9	0.01
	10	10.4
	11	0
	12	4.8
	13	✻
	14	139
	15	129
	16	133
	17	✻
	18	294
IC6601	1	2.4
	2	0
	3	5.0
IC6607	1	134
	2	2.5
	3	8.8
	4	0
IC6608	1	0.04
	2	0.04
	3	18
	4	7.0
	5	4.2
	6	7.0
	7	4.1
	8	3.2
	9	5.0
	10	8.8
	11	5.0
	12	0
	13	0.11
	14	18
IC6800	1	1.1
	2	13.5
	3	-13.6
	4	-15
	5	0.4
	6	14
	7	1.1
IC6801	1	8.0
	2	1.5
	3	3.1
	4	0
	5	3.8
	6	6.6
	7	0.2
	8	9.0
IC6804	I	11.1
	G	0
	O	9.0
IC6805	I	14
	G	0
	O	11.9
IC6806	I	✻
	G	✻
	O	✻
	VC	✻
Q6100	D	302
	G	0.9
	S	0
Q6102	B	0.4
	C	1.0
	E	0
Q6600	D	297
	G	134
	S	130
Q6601	B	-0.02
	C	12
	E	0
Q6602	B	0.3
	C	18
	E	0
Q6603	D	131
	G	4.8
	S	0
Q6604	B	16.9
	C	17.6
	E	17.7
Q6605	B	0.8
	C	0.13
	E	0.12
Q6608	B	0.6
	C	0
	E	0
Q6609	B	4.9
	C	0
	E	5.0
Q6610	B	0.5
	C	4.9
	E	0.2
Q6611	B	0.4
	C	7.1
	E	0
Q6613	B	0
	C	0.6
	E	0
Q6614	B	17.6
	C	0
	E	17.7
Q6617	B	0
	C	7.0
	E	0
Q6618	B	7.0
	C	0
	E	7.0
Q6800	B	-0.5
	C	13.9
	E	0.9
Q6803	B	7.0
	C	0
	E	7.0
Q6804	B	8.0
	C	9.0
	E	8.0
Q6805	B	-0.3
	C	68
	E	0
Q6806	B	-0.3
	C	59
	E	0
Q6809	D	20.0
	G	2.7
	S	0
Q6810	D	136
	G	1.7
	S	0
Q6811	B	0
	C	9.0
	E	0
Q6812	B	-0.8
	C	81
	E	0
Q6813	B	0.4
	C	6.4
	E	0
Q6814	B	9.1
	C	3.0
	E	9.0
Q6815	B	135
	C	134
	E	135
Q6816	B	0.6
	C	0
	E	0
Q6817	B	0
	C	0.5
	E	0
Q6818	B	3.0
	C	0
	E	0
Q6819	B	-9.0
	C	-9.4
	E	-12.9
Q6820	B	0.2
	C	0.3
	E	0
Q6821	B	0
	C	-10.9
	E	0
Q6823	B	0
	C	8.9
	E	3.1

D BOARD VOLTAGE LIST (KV-EX34 MODEL)

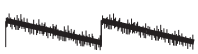
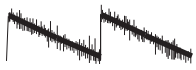
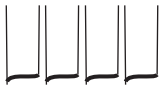
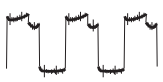
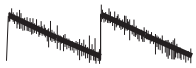
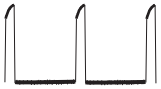
Ref	Pin No.	Voltage[v]
IC6600	1	2.8
	2	1.9
	3	2.2
	4	2.5
	5	0
	6	0
	7	4.6
	8	17.5
	9	0
	10	10.2
	11	0
	12	4.7
	13	✻
	14	142.8
	15	133
	16	136.2
	17	✻
	18	307
IC6601	1	2.4
	2	0
	3	5.0
IC6607	1	134
	2	2.5
	3	8.5
	4	0
IC6608	1	0
	2	0
	3	17.9
	4	2.0
	5	2.0
	6	2.0
	7	1.9
	8	3.2
	9	5.0
	10	8.9
	11	5.0
	12	0
	13	0.1
	14	17.9
IC6800	1	1.0
	2	14.2
	3	-14.3
	4	-16.0
	5	0.4
	6	14.6
	7	1.0
IC6801	1	7.2
	2	1.5
	3	2.6
	4	0
	5	3.4
	6	6.7
	7	0.2
	8	9.1
IC6804	I	10.8
	G	0
	O	9.1
IC6805	I	13.7
	G	0
	O	11.9
IC6806	I	8.4
	G	0
	O	6.3
	VC	2.2
Q6100	D	320
	G	1.0
	S	0
Q6102	B	0.4
	C	1.0
	E	0
Q6600	B	128
	C	297
	E	125
Q6601	B	0
	C	11.9
	E	0
Q6602	B	0.3
	C	18
	E	0
Q6603	B	4.8
	C	134
	E	0
Q6604	B	17.2
	C	17.9
	E	18.0
Q6605	B	0.8
	C	0.13
	E	0.12
Q6608	B	0.6
	C	0
	E	0
Q6609	B	4.9
	C	0
	E	5.0
Q6610	B	0.5
	C	4.9
	E	0.2
Q6611	B	0
	C	3.9
	E	0
Q6613	B	0
	C	0.6
	E	0
Q6614	B	18.0
	C	0
	E	18.0
Q6800	B	-0.5
	C	14.5
	E	0.9
Q6803	B	7.2
	C	0
	E	7.2
Q6804	B	7.2
	C	9.1
	E	0
Q6805	B	-0.4
	C	65.5
	E	0
Q6806	B	-0.3
	C	54.5
	E	0
Q6809	D	12.4
	G	3.4
	S	0
Q6810	D	*
	G	2.0
	S	0.1
Q6811	B	-0
	C	-11.4
	E	0
Q6813	B	0.4
	C	6.5
	E	0
Q6814	B	9.1
	C	3.0
	E	9.1
Q6815	B	134.5
	C	134.7
	E	135.2
Q6816	B	0.6
	C	0.1
	E	0
Q6817	B	0
	C	0.6
	E	0
Q6818	B	3.4
	C	0
	E	0
Q6819	B	-9.0
	C	-9.4
	E	-12.9
Q6820	B	2.4
	C	5.4
	E	0
Q6821	B	0
	C	-10.9
	E	0
Q6823	B	0
	C	8.9
	E	3.1

8-4. WAVEFORMS

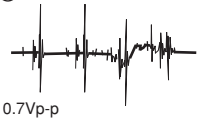
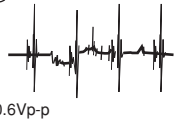
A BOARD WAVEFORMS

①  5.5Vp-p	②  4.2Vp-p	③  0.4Vp-p	④  0.4Vp-p	⑤  0.3Vp-p
⑥  1.5Vp-p	⑦  1.6Vp-p	⑧  4.4Vp-p	⑨  2.8Vp-p	⑩ PAL  1.4Vp-p
⑩ NTSC  0.9Vp-p	⑪  2.6Vp-p	⑫  1.2Vp-p	⑬  1.6Vp-p	⑭  5.2Vp-p
⑮  0.1Vp-p	⑯  1.1Vp-p	⑰  1.4Vp-p	⑱  0.6Vp-p	

D BOARD WAVEFORMS

①  0.7Vp-p	②  30.8Vp-p	③  0.9Vp-p	④  1.9Vp-p	④ SECAM/NTSC  53Vp-p
⑤  2.9Vp-p	⑥  242Vp-p	⑦  378Vp-p	⑧  76.8Vp-p	⑨  3.6Vp-p
⑩  0.7Vp-p	⑪  7.3Vp-p			

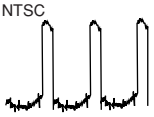
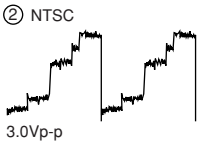
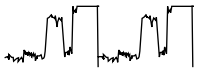
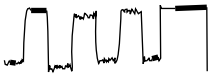
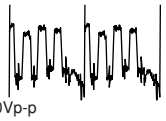
D1 BOARD WAVEFORMS

①  6.6Vp-p	②  6.4Vp-p	③  294Vp-p	④  1.4Vp-p	⑤  1.6Vp-p
⑥  0.7Vp-p	⑦  0.6Vp-p			

B3 BOARD WAVEFORMS

①  0.8Vp-p	②  0.9Vp-p	③  1.0Vp-p	④  1.6Vp-p	⑤  1.4Vp-p
⑥  1.4Vp-p	⑦  6.8Vp-p			

C BOARD WAVEFORMS

① PAL  120Vp-p	① NTSC  0.6Vp-p	② PAL  122Vp-p	② SECAM  5.0Vp-p	② NTSC  3.0Vp-p
③ PAL  120Vp-p	③ NTSC  114Vp-p	③ NTSC  106Vp-p	④ PAL  0.1Vp-p	④ NTSC  106Vp-p
⑤ PAL  4.0Vp-p	⑤ SECAM/NTSC  0.3Vp-p	⑥ PAL  4.1Vp-p	⑥ NTSC  2.2Vp-p	⑦ PAL  4.0Vp-p
⑦ NTSC  4.6Vp-p	⑦ NTSC  3.7Vp-p			

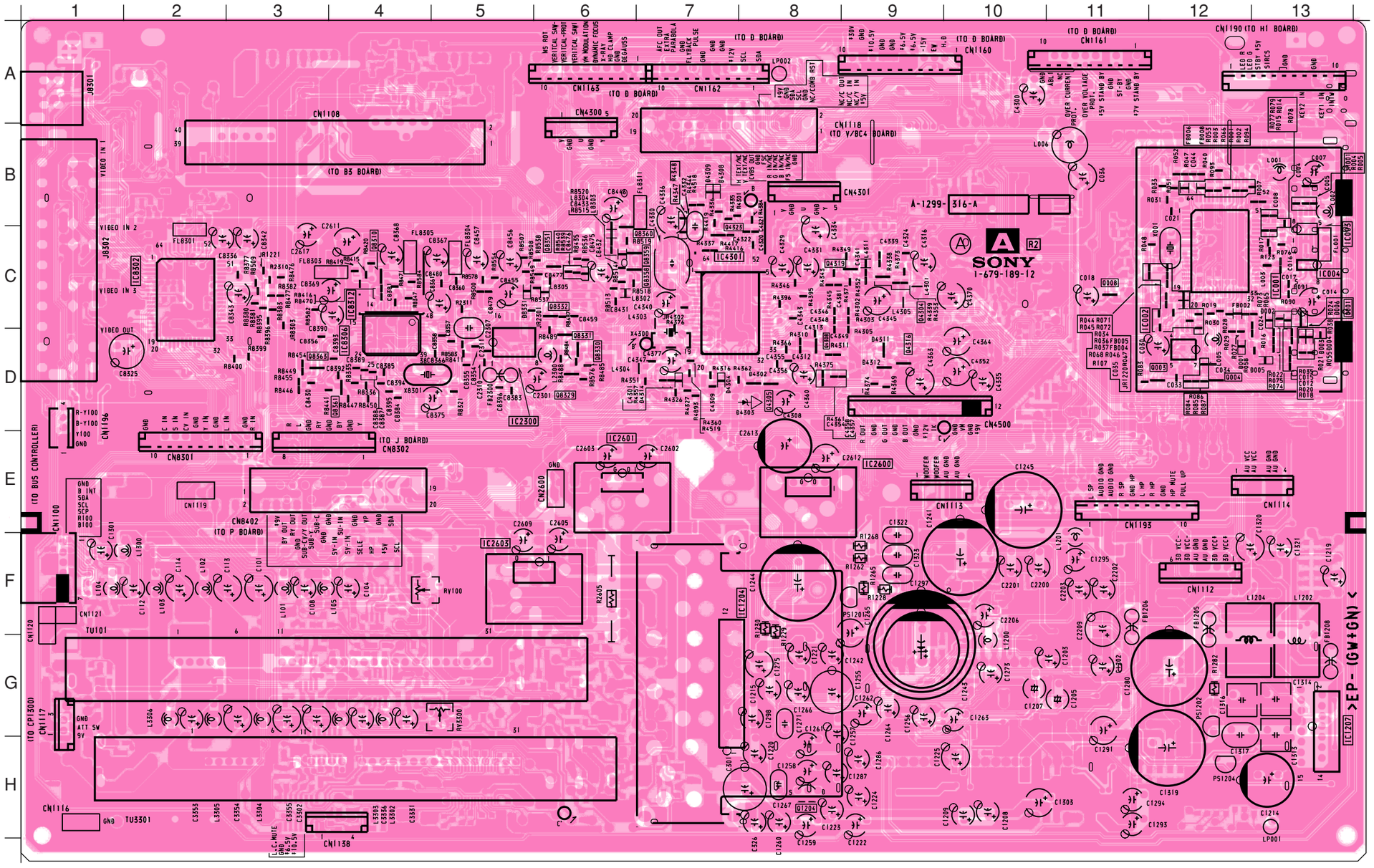
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8-5. PRINTED WIRING BOARDS AND PARTS LOCATION

PRINTED WIRING BOARDS

A [MAIN MICON, TUVIF, AUDIO AMPLIFIER, RGB OUT, YCT, VIDEO/AUDIO IN/OUT]

– A Board – (Component Side)



A BOARD (Component Side)

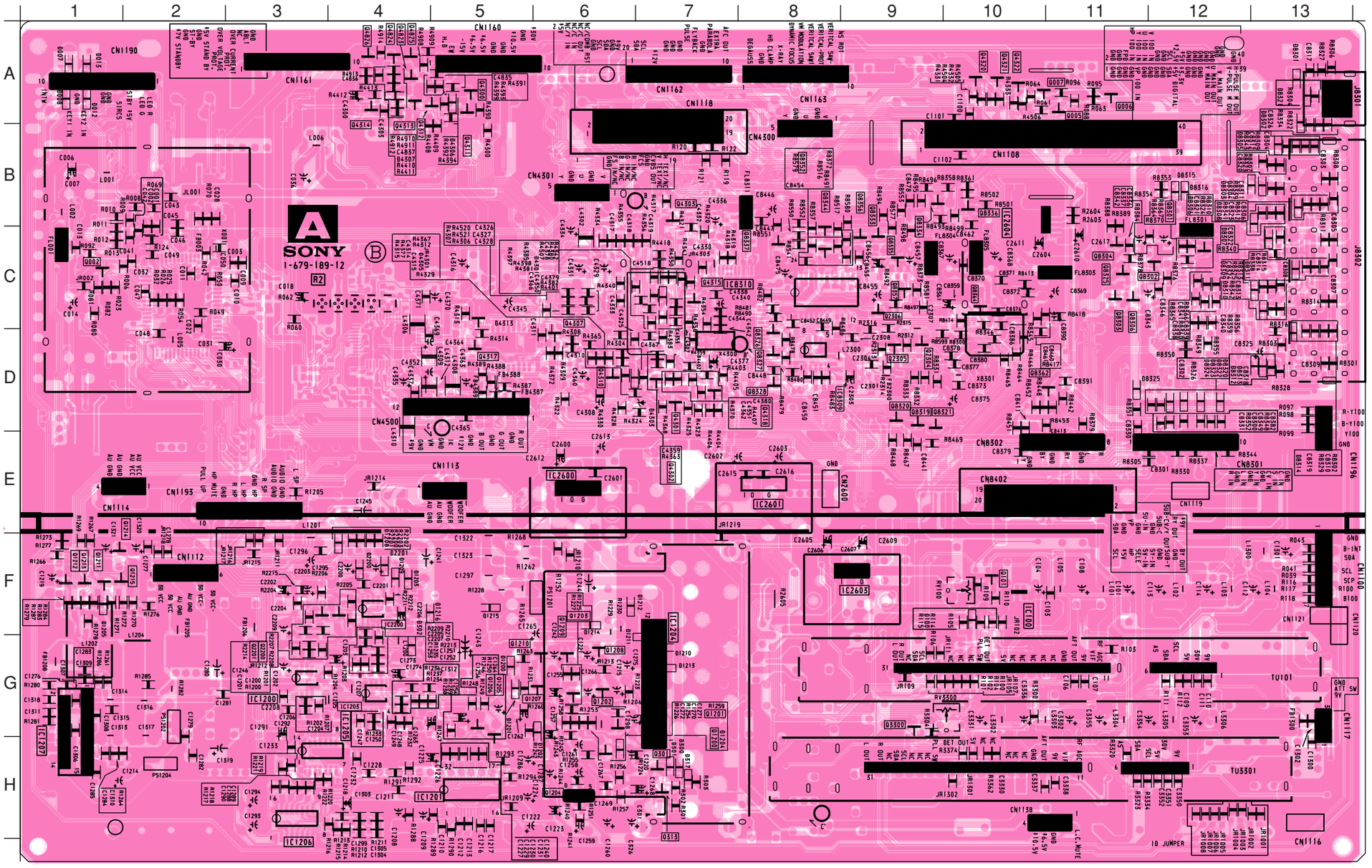
IC			
IC001	C-13	Q8359	C-7
IC002	C-11	Q8360	C-7
IC003	C-13	Q8361	D-4
IC004	C-13	Q8363	D-3
IC1204	F-8	**DIODE**	
IC1207	G-13	D001	D-12
IC2300	D-5	D002	C-13
IC2600	E-9	D003	D-13
IC2601	E-6	D004	D-13
IC2603	F-5	D005	D-13
IC4301	C-7	D006	C-13
IC8302	C-2	D4302	D-8
IC8306	D-4	D4303	D-8
IC8312	C-4	D4304	D-7
TRANSISTOR		D4308	B-7
Q001	C-13	D4309	B-7
Q003	D-12	D4311	D-9
Q004	D-12	D4312	D-9
Q008	C-11	D4314	D-7
Q1204	H-8	D8331	C-5
Q4304	C-9	D1414	B-2
Q4305	D-8	D1415	A-3
Q4308	D-8	D1416	A-3
Q4316	D-9	D1418	A-1
Q4319	C-8	D3201	D-13
Q4323	C-7	D3203	E-13
Q8310	C-4	D3204	D-12
Q8329	D-6	D6200	B-12
Q8330	D-6	D6201	B-8
Q8331	D-6	D6202	B-8
Q8332	C-6	D6205	B-12
Q8351	C-6	D6210	B-7
Q8358	C-7	D6211	B-8
		D6212	B-8

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PRINTED WIRING BOARDS

A [MAIN MICON, TUVIF, AUDIO AMPLIFIER, RGB OUT, YCT, VIDEO/AUDIO IN/OUT]

– A Board – (Conductor Side)



– 101 –

A BOARD (Conductor Side)

IC		TRANSISTOR		DIODE	
IC100	F-10	Q002	C-1	D007	A-1
IC1200	G-3	Q005	A-11	D008	A-1
IC1201	H-4	Q006	A-11	D012	A-1
IC1203	G-4	Q007	A-11	D013	A-1
IC1204	F-7	Q101	F-10	D100	F-9
IC1205	G-4	Q1200	H-7	D1200	G-5
IC1206	H-3	Q1201	G-7	D1201	G-5
IC1207	H-1	Q1202	G-6	D1202	H-6
IC2200	F-4	Q1203	F-6	D1203	F-4
IC2600	E-6	Q1204	H-6	D1204	H-7
IC2601	E-8	Q1205	G-5	D1205	F-1
IC2603	F-9	Q1206	G-5	D1208	F-4
IC2604	B-10	Q1207	G-6	D1209	F-4
IC8309	D-8	Q1208	G-6	D1210	G-7
IC8310	C-8	Q1209	F-6	D1212	F-7
		Q1210	G-5	D1214	F-6
		Q1211	F-1	D1215	F-5
		Q1212	F-1	D1216	F-5
		Q1213	F-1	D2200	F-4
		Q1214	E-2	D2201	F-4
		Q1215	F-2	D300	H-7
		Q2200	G-3	D301	H-7
		Q2201	G-3	D302	F-4
		Q2304	D-9	D317	H-7
		Q2305	D-9	D4301	C-6
		Q2306	C-9	D4303	D-7
		Q301	H-7	D4305	C-4
		Q313	H-7	D4306	B-5
		Q3300	G-9	D4307	B-4
		Q4300	A-5	D4313	C-5
		Q4301	D-7	D8301	A-13
		Q4302	E-7	D8302	A-13
		Q4303	B-7	D8303	B-12
		Q4307	C-6	D8304	B-12
		Q4310	D-6	D8305	B-12
		Q4311	B-5	D8306	B-12
		Q4312	B-4	D8307	C-12
		Q4313	B-4	D8308	B-12
		Q4314	A-4	D8309	C-12
		Q4315	C-6	D8310	C-12
		Q4317	D-5	D8311	C-12
		Q4318	D-8	D8312	D-12
		Q4320	A-10	D8313	D-12
		Q4321	A-10	D8314	E-13
		Q4322	A-10	D8315	B-12
		Q4823	A-4	D8316	B-12
		Q4824	A-4	D8320	D-12
		Q4825	A-4	D8321	A-13
		Q4826	A-4	D8322	D-12
		Q8301	B-12	D8323	D-12
		Q8302	C-12	D8324	D-12
		Q8303	C-11	D8325	D-12
		Q8304	C-11		
		Q8306	C-11		
		Q8319	D-9		
		Q8320	D-9		
		Q8321	D-9		
		Q8325	C-11		
		Q8326	D-8		
		Q8327	D-8		
		Q8328	D-8		
		Q8333	B-9		
		Q8334	B-9		
		Q8335	C-9		
		Q8336	B-10		
		Q8337	C-8		
		Q8344	B-8		
		Q8352	B-8		
		Q8356	B-9		
		Q8357	C-9		
		Q8362	D-10		
		Q8364	C-10		

– 102 –

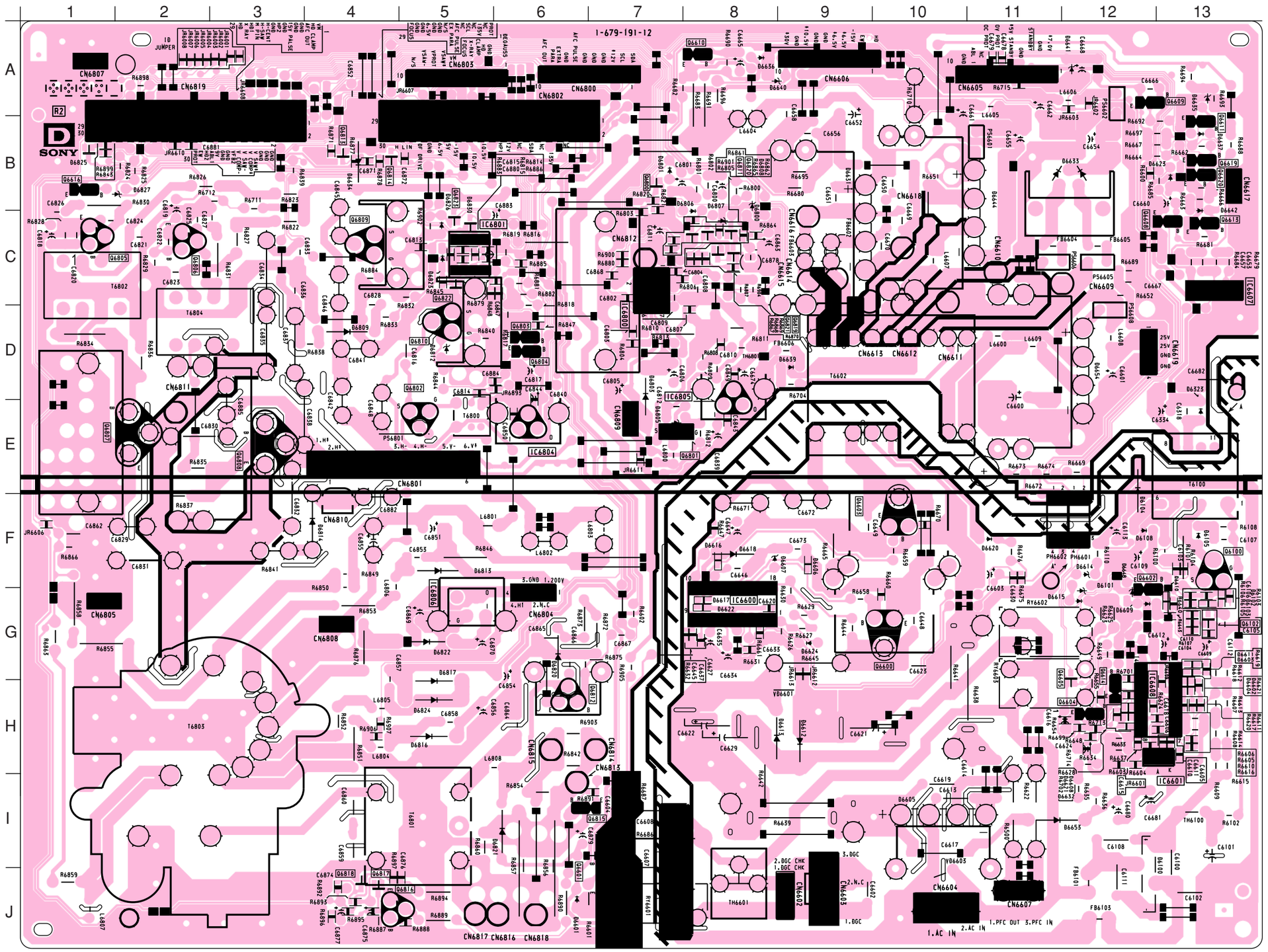
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PRINTED WIRING BOARDS

D [POWER SUPPLY, DEFLECTION HV]

NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or repairing it to prevent an electric shock.

– D Board –



D BOARD

IC		TRANSISTOR		TRANSISTOR	
IC6600	G8	Q6100	F-13	D6100	I-13
IC6601	H13	Q6102	G-13	D6101	F-12
IC6607	C13	Q6600	G-10	D6102	G-13
IC6608	G12	Q6601	I-6	D6103	G-13
IC6800	D7	Q6602	F-12	D6104	F-12
IC6801	C5	Q6603	F-9	D6105	F-13
IC6804	E6	Q6604	H-12	D6108	F-12
IC6805	D7	Q6605	G12	D6323	E-13
IC6806	G5	Q6608	C-12	D6601	J-6
		Q6609	A-13	D6602	G-13
		Q6610	A-8	D6603	G-13
		Q6611	B-13	D6604	G-13
		Q6613	C-13	D6605	I-10
		Q6614	G-12	D6606	F-9
		Q6616	B-1	D6607	F-9
		Q6619	B-13	D6608	I-12
		Q6620	B-13	D6609	G-12
		Q6800	B-7	D6610	F-13
		Q6801	E-8	D6611	G-13
		Q6802	D-5	D6612	H-9
		Q6803	D-6	D6613	H-8
		Q6804	D-6	D6614	F-11
		Q6805	C-2	D6615	G-11
		Q6806	C-2	D6616	F-8
		Q6807	E-1	D6617	G-8
		Q6808	E-3	D6618	F-8
		Q6809	C-4	D6620	F-11
		Q6810	D-5	D6621	I-12
		Q6811	B-8	D6622	G-8
		Q6812	H-7	D6623	B-13
		Q6813	B-4	D6624	G-9
		Q6814	B-4	D6631	B-9
		Q6815	I-7	D6632	I-12
		Q6816	J-5	D6633	B-12
		Q6817	I-4	D6634	B-4
		Q6818	I-4	D6636	A-8
		Q6819	D-9	D6639	D-9
		Q6820	B-8	D6640	A-8
		Q6821	D-9	D6641	A-12
		Q6822	C-5	D6642	B-12
		Q6823	B-5	D6644	B-11
				D6648	G-12
				D6653	I-12
				D6654	D-12
				D6800	C-8
				D6801	B-7
				D6803	D-7
				D6805	E-7
				D6806	B-8
				D6807	B-8
				D6808	B-8
				D6809	D-4
				D6812	D-5
				D6813	F-5
				D6814	F-4
				D6816	H5
				D6817	G-5
				D6820	G-6
				D6821	I-5
				D6822	G-5
				D6823	C-5
				D6824	H-5
				D6825	B-1
				D6826	B-4
				D6827	B-2
				D6830	B-4

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PRINTED WIRING BOARDS

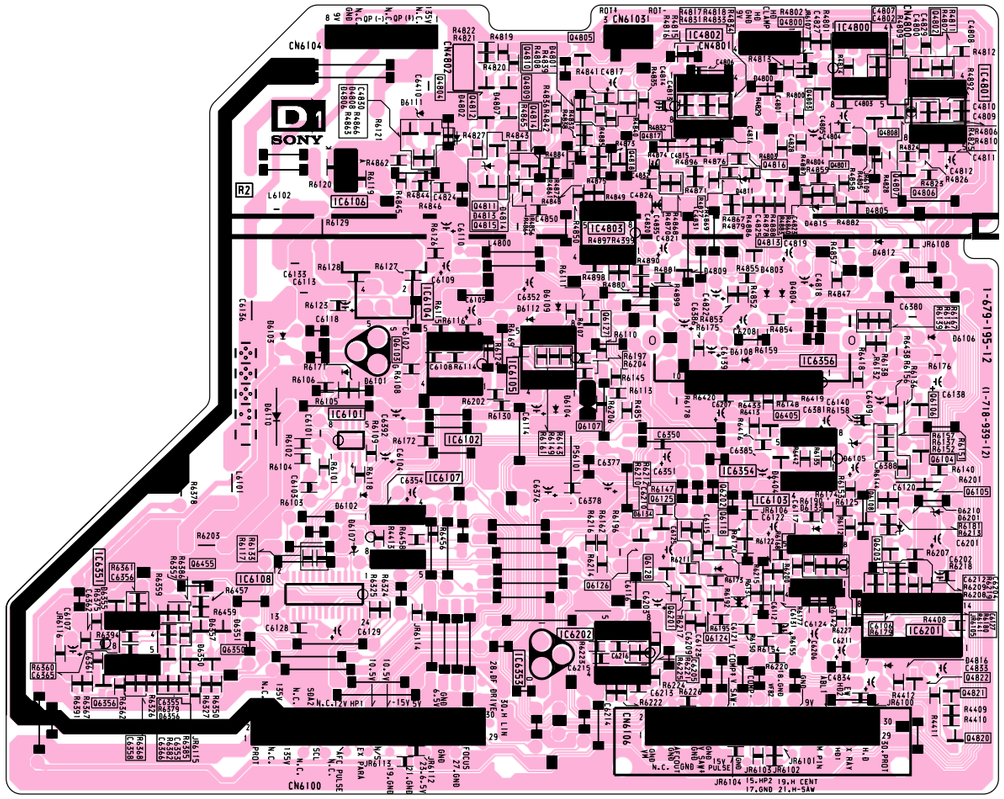
D1 [DYNAMIC FOCUS, DYNAMIC QUAD POLE DRIVE, HORIZONTAL DRIVE GENERATOR]

H1 [AC SW, AV INPUT, PRESET KEY, PHONE OUT,LED, SIRCS RECEIVER]

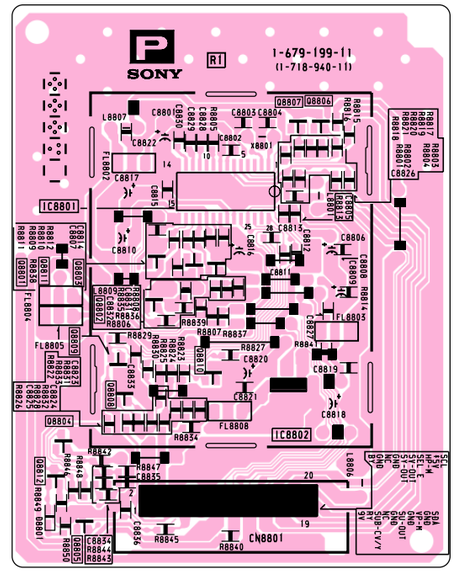
P [PICTURE IN PICTURE]

J [COMPONENT IN]

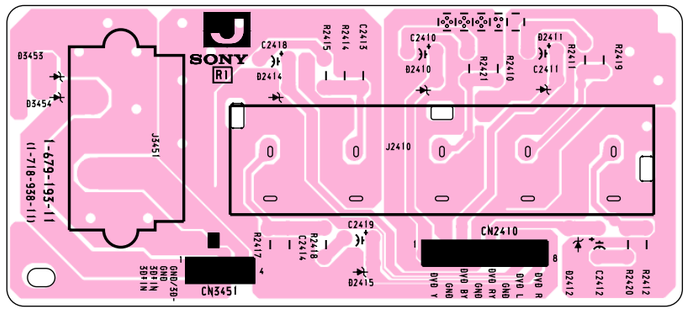
– D1 Board –



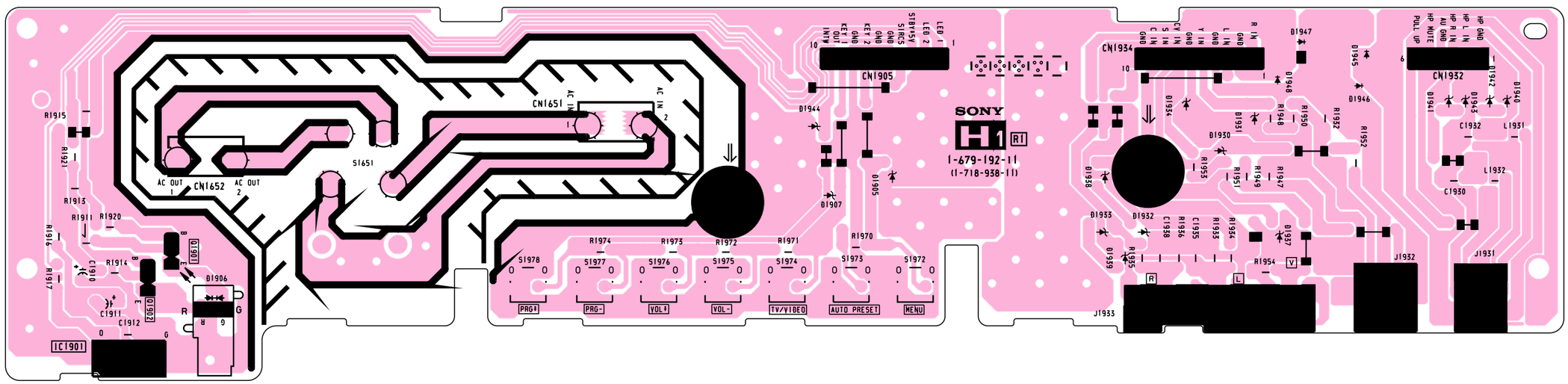
– P Board –



– J Board –



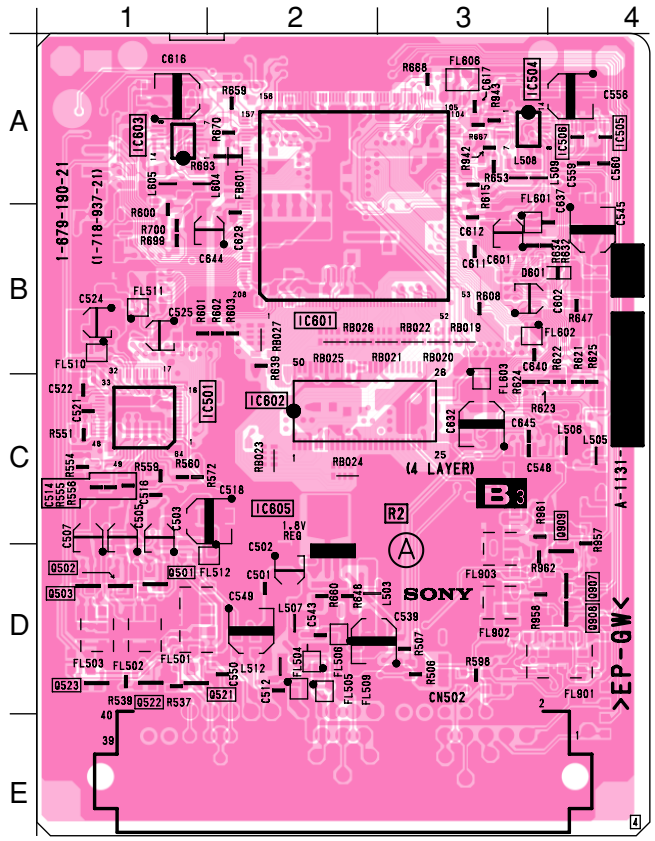
– H1 Board –



PRINTED WIRING BOARD

B3 [DIGITAL REALITY CREATION]

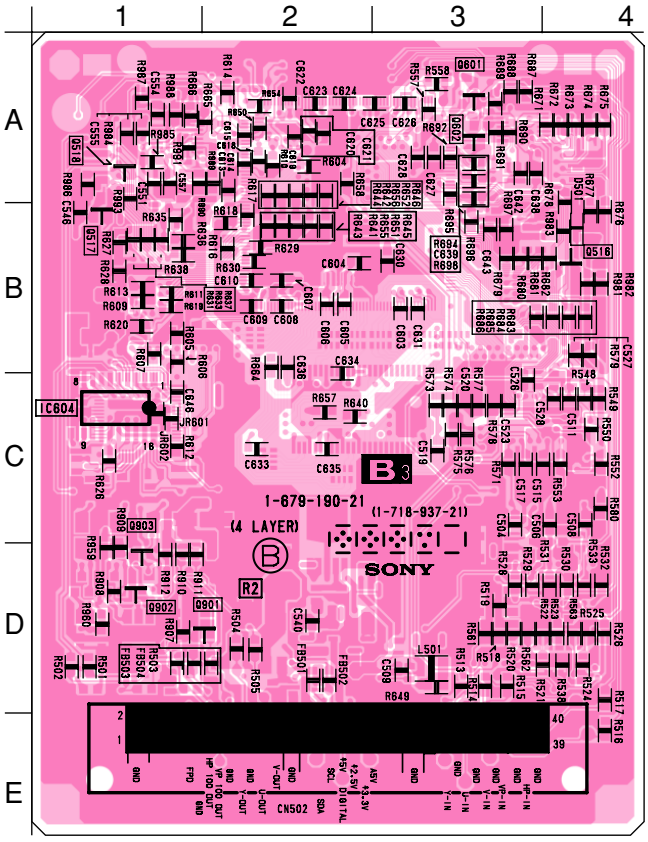
– B3 Board – (Component Side)



B3 BOARD (Component Side)

IC	
IC501	C-1
IC504	A-3
IC505	A-4
IC505	A-4
IC601	B-2
IC602	C-2
IC603	A-1
TRANSISTOR	
Q501	D-1
Q502	D-1
Q503	D-1
Q521	D-2
Q522	D-1
Q523	D-1
Q907	D-4
Q908	D-4
Q909	C-4
DIODE	
D601	B-3

– B3 Board – (Conductor Side)



B3 BOARD (Conductor Side)

IC	
IC604	C-1
TRANSISTOR	
Q516	B-4
Q517	B-1
Q518	A-1
Q601	A-3
Q602	A-3
Q901	D-2
Q902	D-1
Q903	C-1
TRANSISTOR	
D501	A-4

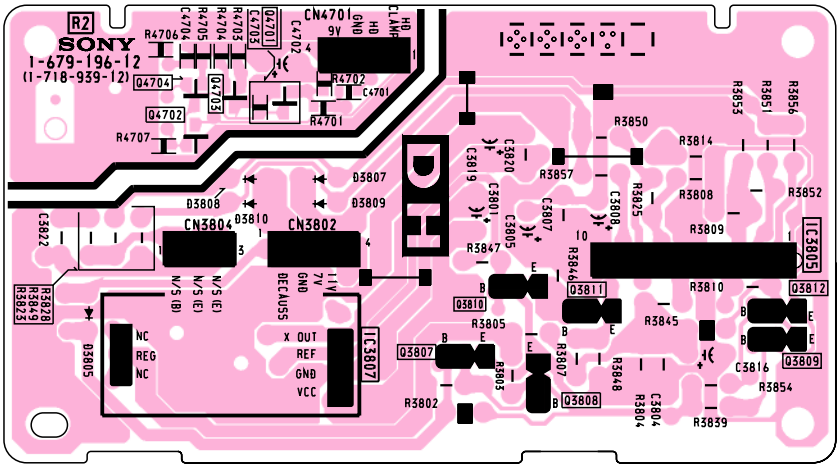
- : Pattern from the side which enable seeing.
- : Pattern from the rear side.

PRINTED WIRING BOARDS

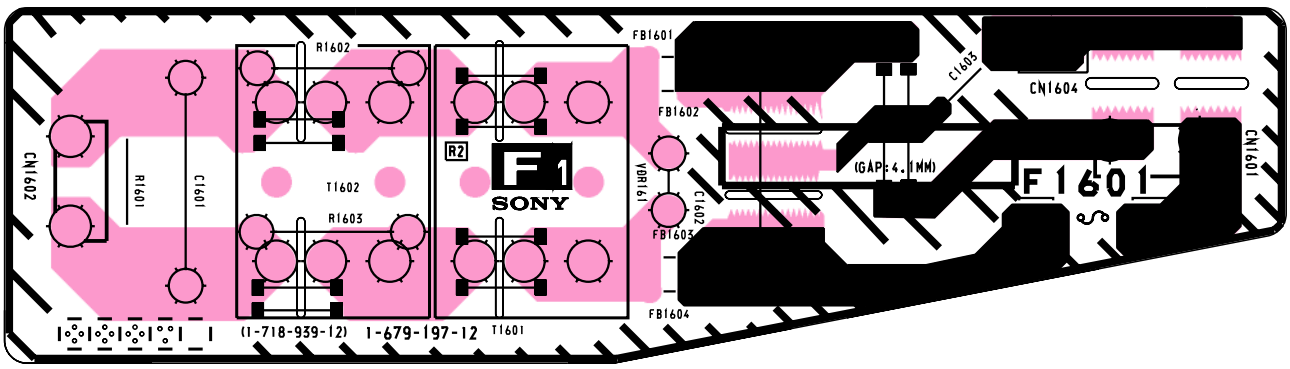
DH [MAGNETIC FIELD CORRECTION]

F1 [AC LINE FILTER]

– DH Board –



– F1 Board –

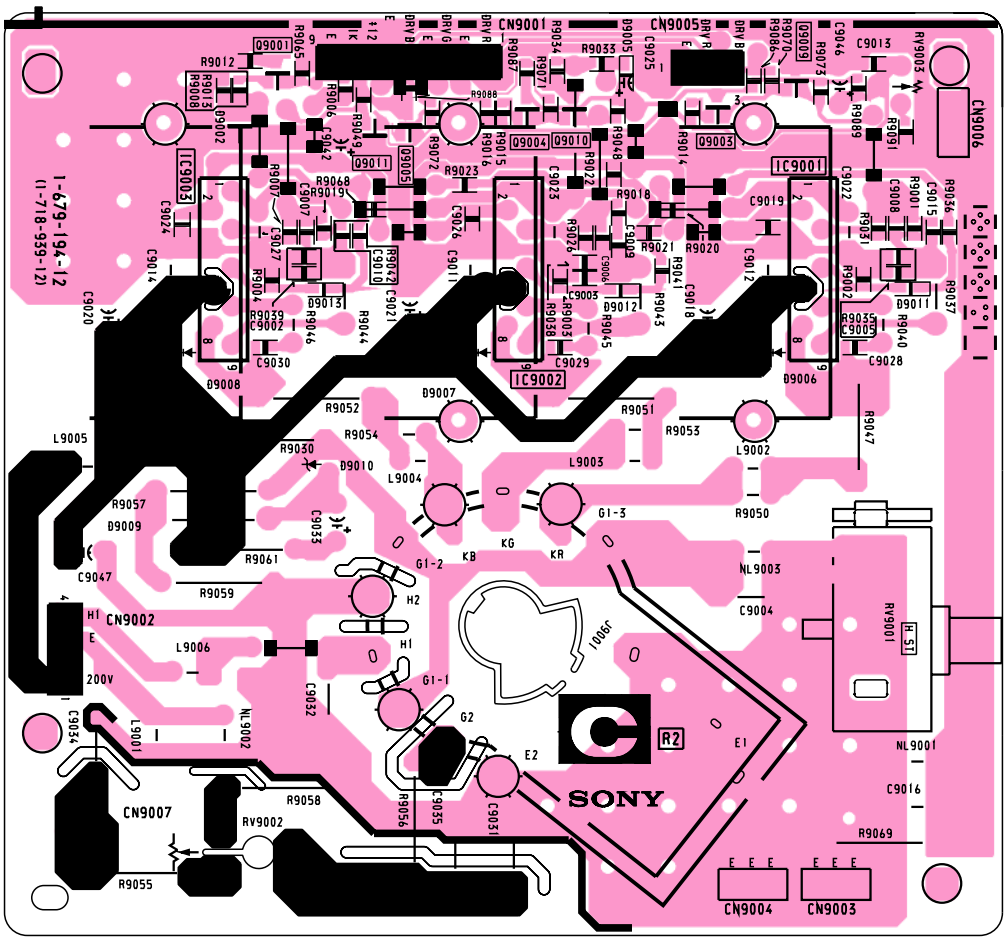


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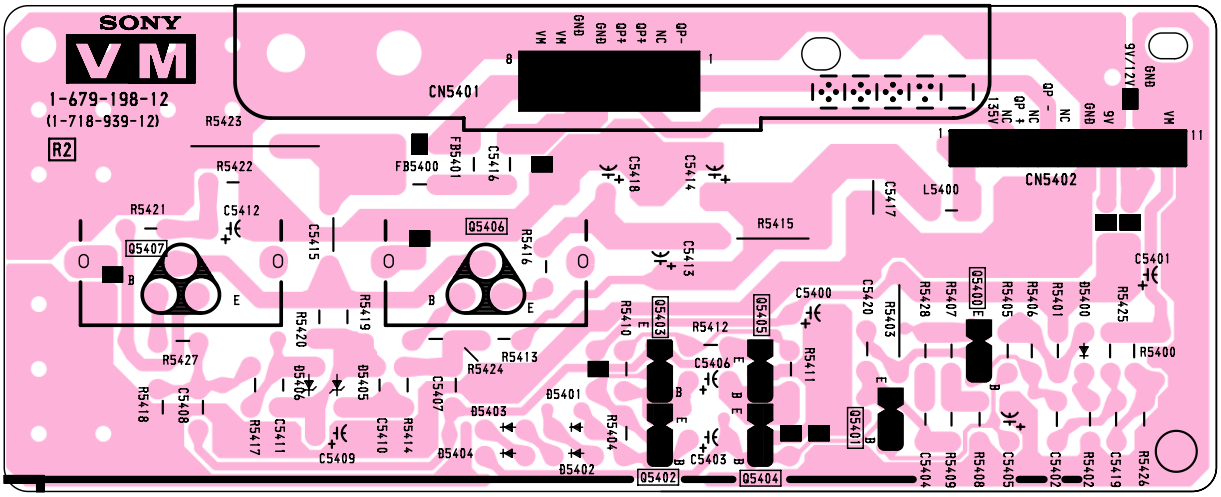
C [VIDEO AMPLIFIER]

VM [VELOCITY MODULATION]

– C Board –



– VM Board –

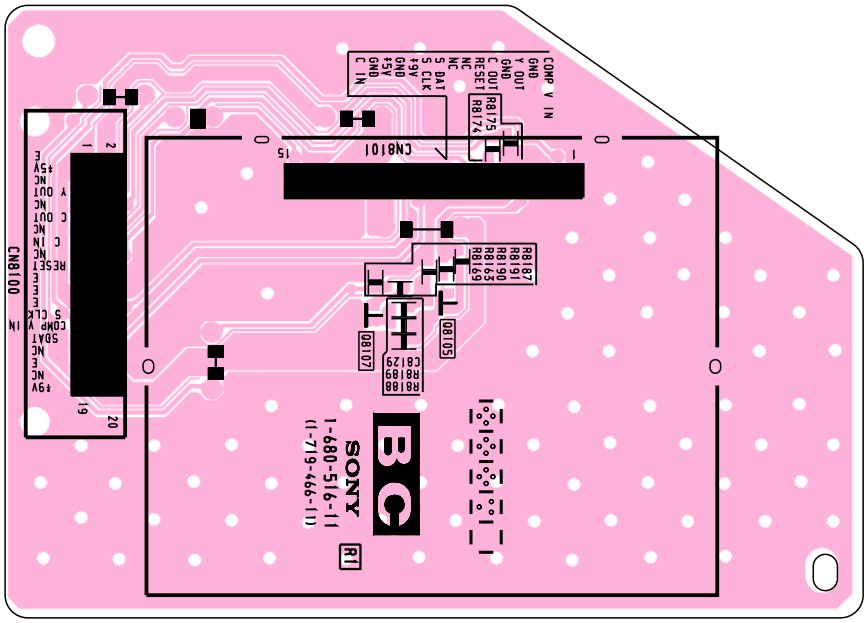


PRINTED WIRING BOARDS

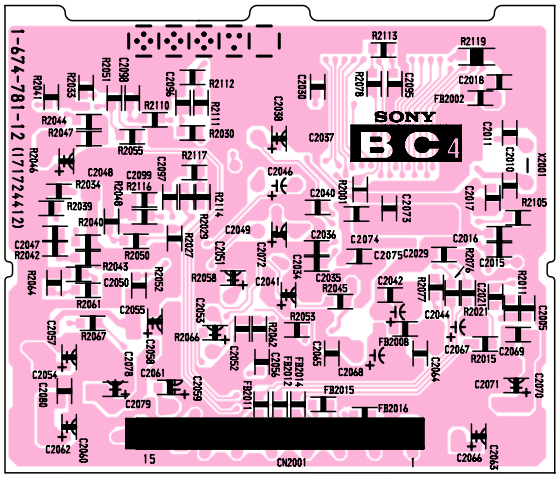
BC [3D COMB FILTER]

BC4 [3D COMB FILTER]

– BC Board –

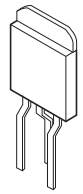
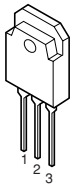
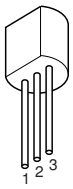
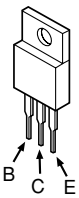
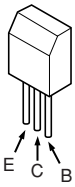
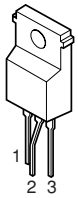


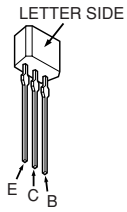
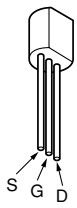
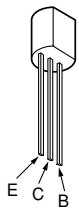
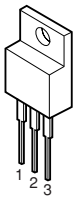
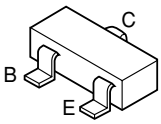
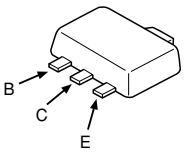
– BC4 Board –



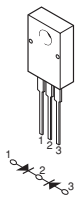
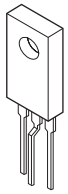
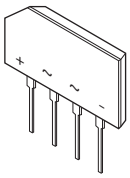
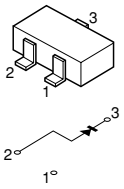
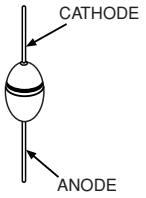
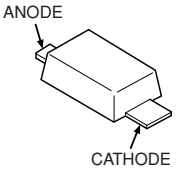
8-6. SEMICONDUCTORS

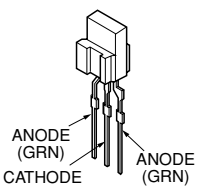
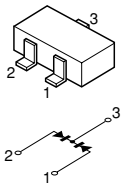
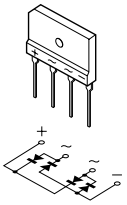
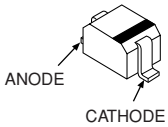
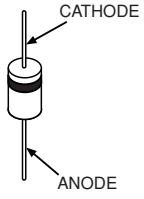
TRANSISTOR

					
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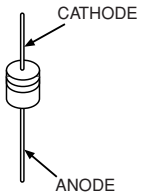
					
DTA144ESA DTC114ESA DTC144ESA 2SA1175-HFE 2SC2785-HFE	2SK246-GR	2SC2500-B	2SA2005 2SC5511 2SC3840(3) IRFI830G-LF49 IRFIB7N50A	DTC114EK DTC114TKA-T146 DTC144EKA 2SA1037AK-T146 2SA1162-YG 2SC1623-L5L6 2SC2712-YG 2SD601A-Q UN2213 2SD2114K	2SK2251-01-F19 DTC143TKA-T146

DIODE

					
D10SC4M	D10SBS4F	D2SB60A-F04	MA3091 MA3062M-TX	U05G	DTZ.TT11-15B

					
SPB-25MVWF	DAN202K	D4SBL20U D4SB60L	DTZ9.1 DTZ-T11-16B MA111-TX MA113-(TX) RD5.6SB3 RD9.1SB 1SS355TE-17 UDZS-TE-17-3.9B	D1NL20U-TR GP08D HSS83TD NNCD9.1A-T1 HZS9.1NB2 UF4005PKG23 1SS119-25	RGP02-20EL-6394 D1NS6 ERA22-08 EL1Z S3L20UF4

DIODE

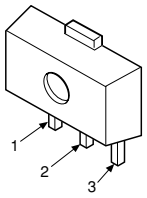


D1NS4 RD5.1ESB1 RD2.2ES-B2 RD10ESB2 RD2.7ESB2 RD4.7ESB2 RD5.6ESB2 RD5.6ES-B1 RD12ES-B1 RD30ESB2 RD22ES-B1	ERA85-009 ERA38-06 D1N20R RD18ES-B2 RD18ESB RD3.6ES-B1 RD6.8ES-B1 RD7.5ESB2 RD15ES-B1 RD3.9ES-B2

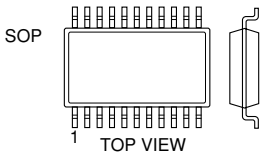


RN-4Z

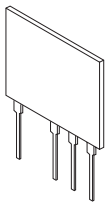
IC



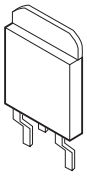
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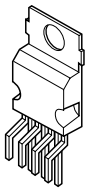
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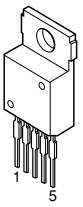
DM-58



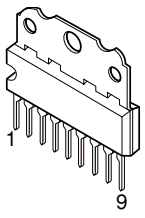
BA033FP-E2



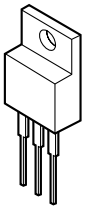
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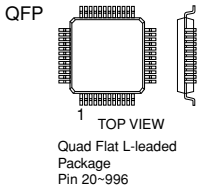
LA6500-FA LA6510



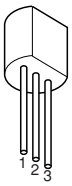
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TA7805S PQ09RF2



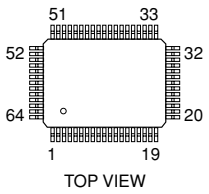
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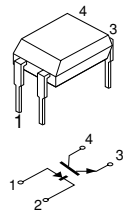
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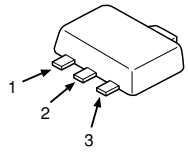
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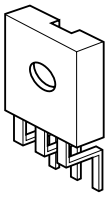
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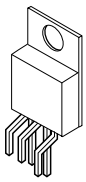
ON3171-R



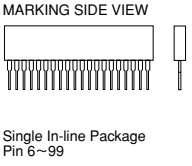
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SBX1981-51RP



BA033T



AN7583Z

SECTION 9
EXPLODED VIEWS

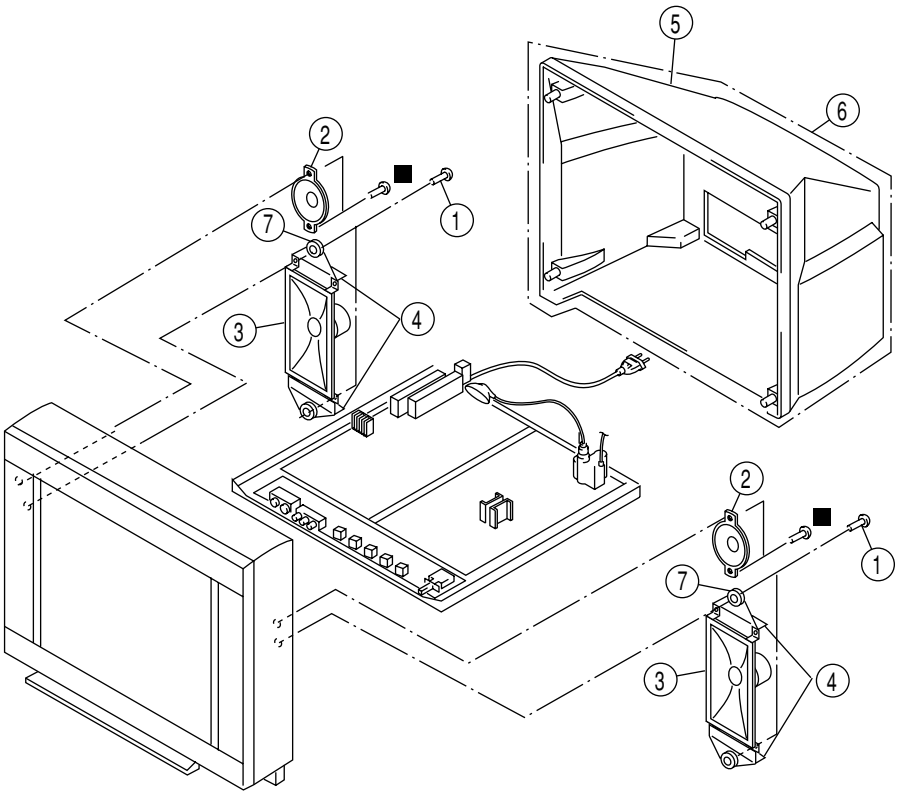
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

9-1. SPEAKER BRACKET

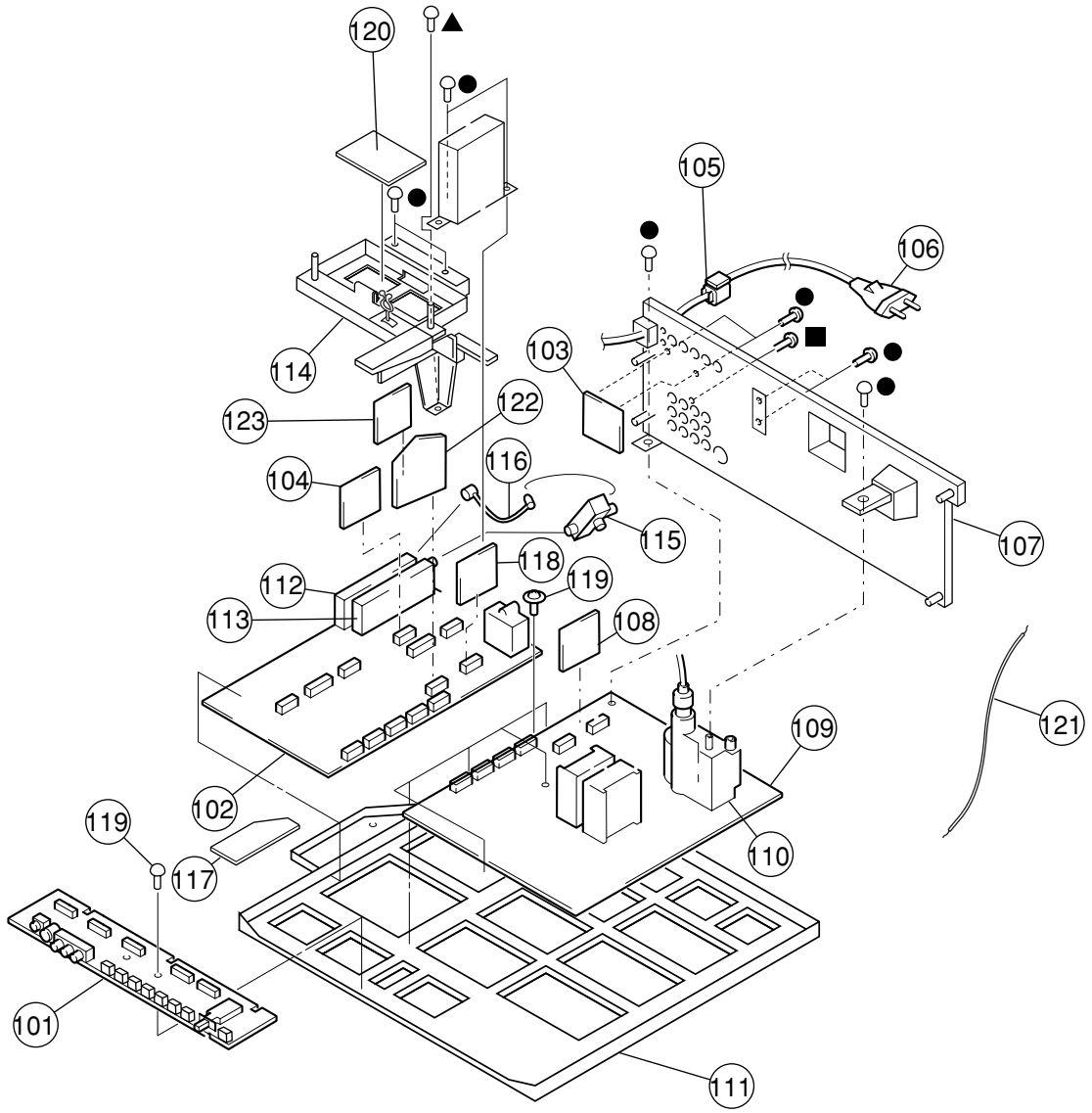
■ : 7-685-663-71 SCREW +BVTP 4 × 16



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		4-302-404-03	SCREW (WASHER HEAD)(+P4 x 16)	
2		1-529-968-11	SPEAKER (5CM)	
3		1-529-563-11	SPEAKER (15 x 6.5CM)	
4	*	4-046-981-01	BRACKET,SPEAKER	
5		4-076-066-01	COVER REAR (KV-EX34K94 ONLY) (■ 14 SCREWS)	
6		X-4038-161-1	COVER ASSY, REAR (KV-EX29K94 ONLY) (■ 12 SCREWS)	
7		4-374-745-21	CUSHION A	

9-2. CHASSIS

● : 7-685-648-79 SCREW +BVTP 3 × 12
■ : 7-685-663-71 SCREW +BVTP 4 × 16
▲ : 7-685-650-79 SCREW +BVTP 3 × 16

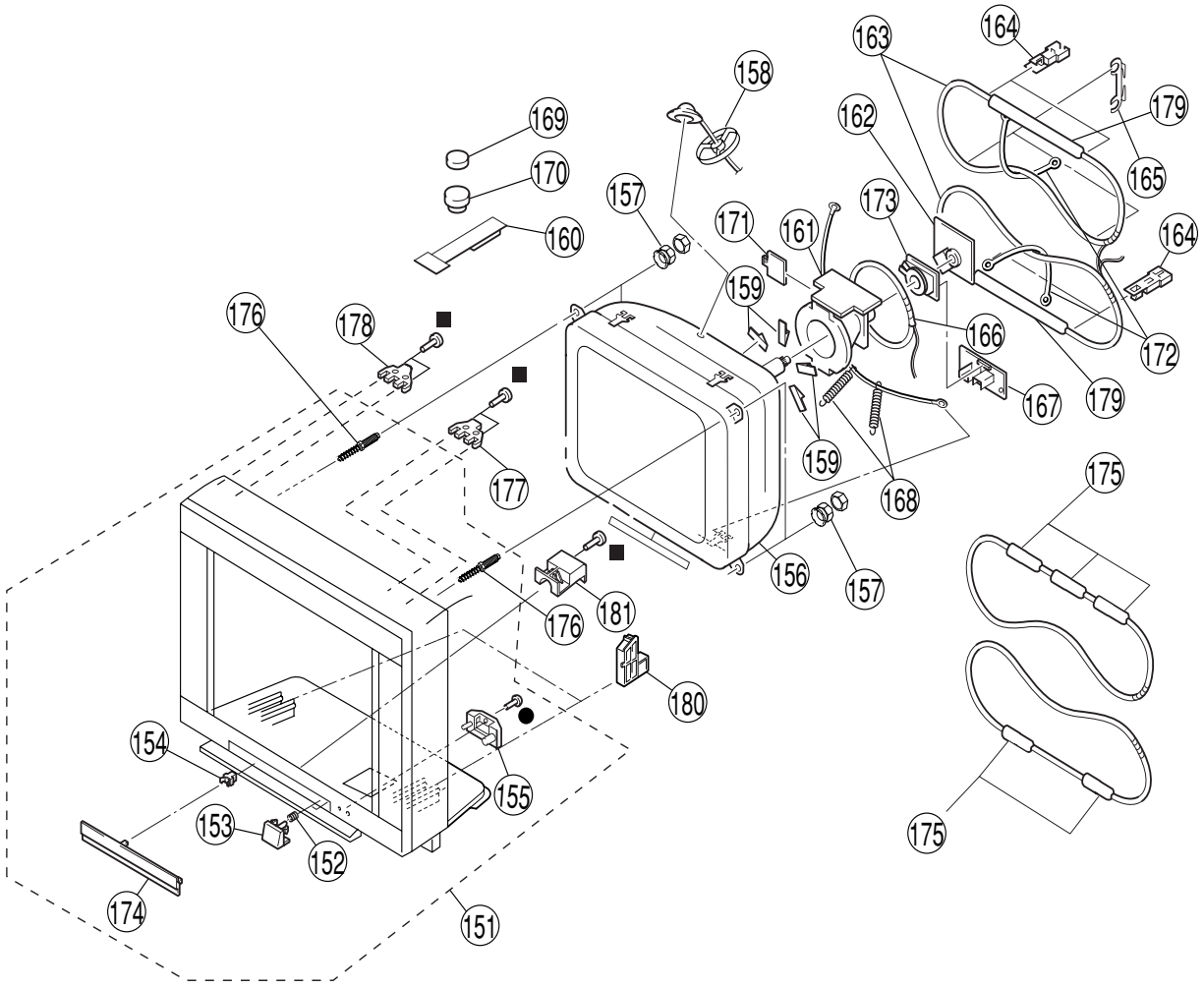


REF. NO.		PART NO.	DESCRIPTION	REMARK
101	*	A-1372-869-A	H1 BOARD, MOUNTED	
102	*	A-1299-571-A	A BOARD, COMPLETE (KV-EX29K94)	
	*	A-1299-605-A	A BOARD, COMPLETE (KV-EX34K94)	
103	*	A-1388-332-A	J BOARD, MOUNTED	
104	*	A-1195-161-A	P BOARD, COMPLETE	
105	⚠	4-022-115-12	HOLDER, AC CORD	
106	⚠	1-757-305-11	CORD, POWER (WITH FILTER)	
107	*	4-075-447-71	BRACKET, TERMINAL	
108	*	A-1343-928-A	D1 BOARD, MOUNTED (KV-EX29K94)	
	*	A-1343-962-A	D1 BOARD, MOUNTED (KV-EX34K94)	
109	*	A-1346-975-A	D BOARD, COMPLETE (KV-EX29K94)	
	*	A-1348-019-A	D BOARD, COMPLETE (KV-EX34K94)	
110	⚠	1-453-363-11	TRANSFORMER ASSY, FLYBACK	
			(NX-4522//J1B4) (KV-EX29K94)	
	⚠	1-453-326-11	TRANSFORMER ASSY, FLYBACK	
			(NX-4601//J1B4) (KV-EX34K94)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
111	*	4-075-446-01	BRACKET, MAIN	
112		8-598-430-30	TUNER, FSS BTF-FA401	
113		8-598-475-10	TUNER, FSS BTF-WL411	
114	*	4-076-315-01	BRACKET, PWB	
115		1-251-658-21	SPLITTER RF	
116		1-515-110-00	P-P CABLE	
117	*	A-1241-437-A	F1 BOARD, MOUNTED (KV-EX29K94)	
		A-1241-448-A	F1 BOARD, MOUNTED (KV-EX34K94)	
118	*	A-1136-132-A	B3 BOARD, COMPLETE	
119		4-046-797-01	SCREW (3 x 12)(+)BVTP	
120	*	A-1333-004-A	DH BOARD, MOUNTED	
121		1-900-251-82	LEAD ASSY, G2 (KV-EX34K94 ONLY)	
122		A-1136-245-A	BC BOARD, COMPLETE	
123		A-1136-246-A	BC4 BOARD, COMPLETE	

9-3. PICTURE TUBE

● : 7-685-648-79 SCREW +BVTP 3 × 12
■ : 7-685-663-71 SCREW +BVTP 4 × 16



REF. NO.		PART NO.	DESCRIPTION	REMARK
151		X-4039-173-1	BEZNET ASSY (KV-EX29K94)	152-155,174,176
		X-4039-333-1	BEZNET ASSY (KV-EX34K94)	152-155,174,176
152		4-036-405-11	SPRING, COMPRESSION	
153		4-075-747-01	BUTTON, POWER	
154		4-047-464-01	CATCHER, PUSH	
155	*	4-075-749-01	GUIDE, LIGHT	
156	⚠	8-735-057-05	PICTURE TUBE (M68LNH070X) (KV-EX29K94)	
	⚠	8-735-076-05	PICTURE TUBE (A80LPD90X) (KV-EX34K94)	
157		4-387-204-01	NUT SPECIAL, CRT	
158	*	3-704-372-11	HOLDER, HV CABLE	
159		4-046-600-11	SPACER DY	
160		X-4387-214-3	PERMALOY ASSY, CORRECTION	
161	⚠	8-451-504-61	DEFLECTION YOKE (Y29RSC-S2) (KV-EX29K94)	
	⚠	8-451-500-71	DEFLECTION YOKE (Y34RSC2-Y3) (KV-EX34K94)	
162	*	A-1332-223-A	C BOARD, MOUNTED (KV-EX29K94)	
	*	A-1332-236-A	C BOARD, MOUNTED (KV-EX34K94)	
163	⚠	1-419-294-11	COIL, DEGAUSSING (KV-EX29K94)	
	⚠	1-419-293-11	COIL, DEGAUSSING (KV-EX34K94)	
164	*	4-062-970-12	CLIP (29RSN), DGC (KV-EX29K94)	
		4-069-493-02	CLIP, DGC (KV-EX34K94)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
165		4-064-883-03	HOLDER, DGC (KV-EX29K94)	
		4-061-369-01	HOLDER, DEGAUSE COIL (KV-EX34K94)	
166		1-452-896-11	COIL, NA ROTATION (RT200)	
167	*	A-1342-623-A	VM BOARD, MOUNTED	
168		4-369-318-61	SPRING, TENSION (KV-EX29K94)	
		4-078-766-01	SPRING, EXTENSION (KV-EX34K94)	
169		1-452-032-00	MAGNET, DISC	
170		1-452-094-00	CIRCULAR DISC MAGNET B	
171		4-077-228-02	PIECE, TLH CONVERGENCE	
172		4-079-376-01	BAND, DGC (KV-EX29K94)	
		4-067-455-01	BAND, DGC (KV-EX34K94)	
173		8-453-011-41	NA299-C (KV-EX29K94)	
		8-453-007-31	NA324-M3 (KV-EX34K94)	
174		4-075-748-81	CONTROL, DOOR	
175	*	4-074-512-21	CUSHION (S), DGC (KV-EX34K94 ONLY)	
176		4-079-175-01	SCREW, CRT (TAPPING 7+M 8) (KV-EX29K94 ONLY)	
177	*	X-4038-461-3	CRT (TOP, RIGHT) SUPPORT ASSY (KV-EX29K94) (■ 2 SCREWS)	
178	*	X-4038-460-3	CRT, (TOP, LEFT) SUPPORT ASSY (KV-EX29K94) (■ 2 SCREWS)	
179		4-063-935-21	CUSHION (50X550), DGC (KV-EX29K94 ONLY)	
180		4-082-057-01	SUPPORT, CRT (KV-EX34K94)	
181	*	4-083-178-01	SUPPORT, BOTTOM (CENTER) (KV-EX34K94 ONLY)	

SECTION 10
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : mH, UH : µH

REF NO.	PART NO.	DESCRIPTION			REMARK
	* A-1299-571-A	A BOARD COMPLETE (KV-EX29K94)			
	* A-1299-605-A	A BOARD COMPLETE (KV-EX34K94)			
		**********			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C001	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C002	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C004	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10.00%	50V
C006	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
C007	1-126-933-11	ELECT	100UF	20.00%	16V
C009	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C010	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C012	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C013	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C014	1-126-967-11	ELECT	47UF	20.00%	50V
C015	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C017	1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C018	1-104-665-11	ELECT (KV-EX34K94)	100UF	20.00%	10V
C021	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C022	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C028	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C030	1-126-947-11	ELECT	47UF	20.00%	25V
C031	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C032	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C033	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C034	1-163-259-91	CERAMIC CHIP	220PF	5.00%	50V
C035	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C036	1-104-665-11	ELECT	100UF	20.00%	25V
C041	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C043	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C045	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C046	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C048	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C050	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C101	1-126-964-11	ELECT	10UF	20.00%	50V
C103	1-107-725-11	CERAMIC CHIP	0.1UF	10.00%	16V
C104	1-126-933-11	ELECT	100UF	20.00%	16V
C106	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C107	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C108	1-126-933-11	ELECT	100UF	20.00%	16V
C109	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C110	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C111	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C112	1-126-933-11	ELECT	100UF	20.00%	16V
C113	1-126-967-11	ELECT	47UF	20.00%	50V
C114	1-126-967-11	ELECT	47UF	20.00%	50V
C301	1-126-767-11	ELECT	1000UF	20.00%	16V
C326	1-126-964-11	ELECT	10UF	20.00%	50V
C1100	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V
C1101	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1102	1-163-007-11	CERAMIC CHIP	680PF	10.00%	50V
C1200	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1201	1-216-025-11	RES-CHIP	100	5%	1/10W
C1202	1-126-947-11	ELECT	47UF	20.00%	16V
C1203	1-126-947-11	ELECT	47UF	20.00%	16V
C1204	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C1205	1-107-698-11	ELECT	10UF	20.00%	25V
C1206	1-216-025-11	RES-CHIP	100	5%	1/10W
C1207	1-107-698-11	ELECT	10UF	20.00%	25V
C1208	1-126-960-11	ELECT	1UF	20.00%	50V
C1209	1-126-960-11	ELECT	1UF	20.00%	50V
C1210	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1211	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C1212	1-115-185-11	CERAMIC CHIP	0.033UF	10.00%	50V
C1213	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C1216	1-164-344-11	CERAMIC CHIP	0.068UF	10.00%	25V
C1217	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1218	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1220	1-126-960-11	ELECT	1UF	20.00%	50V
C1222	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1223	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1224	1-126-965-91	ELECT	22UF	20.00%	50V
C1225	1-104-665-11	ELECT	100UF	20.00%	25V
C1226	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1227	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C1228	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C1229	1-115-185-11	CERAMIC CHIP	0.033UF	10.00%	50V
C1230	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C1231	1-164-344-11	CERAMIC CHIP	0.068UF	10.00%	25V
C1232	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C1233	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C1240	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C1241	1-128-550-11	ELECT	2200UF	20.00%	50V
C1243	1-131-612-11	ELECT	6800UF	20%	50V
C1245	1-128-550-11	ELECT	2200UF	20.00%	50V
C1247	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1248	1-216-045-00	RES-CHIP	680	5%	1/10W
C1249	1-216-295-91	SHORT	0		
C1250	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1251	1-216-045-00	RES-CHIP	680	5%	1/10W
C1252	1-216-295-91	SHORT	0		
C1253	1-164-505-11	CERAMIC CHIP	2.2UF		16V

A

REF NO.	PART NO.	DESCRIPTION		REMARK	
C1254	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C1255	1-126-941-11	ELECT	470UF	20.00%	25V
C1256	1-126-964-11	ELECT	10UF	20.00%	50V
C1265	1-249-429-11	CARBON	10K	5%	1/4W
C1266	1-126-964-11	ELECT	10UF	20.00%	50V
C1267	1-136-161-00	FILM	0.047UF	5.00%	50V
C1268	1-163-017-00	CERAMIC CHIP (KV-EX29K94)	0.0047UF	10.00%	50V
C1268	1-163-019-00	CERAMIC CHIP (KV-EX34K94)	0.0068UF	10.00%	50V
C1270	1-163-017-00	CERAMIC CHIP (KV-EX29K94)	0.0047UF	10.00%	50V
C1270	1-163-019-00	CERAMIC CHIP (KV-EX34K94)	0.0068UF	10.00%	50V
C1271	1-136-161-00	FILM	0.047UF	5.00%	50V
C1273	1-126-964-11	ELECT	10UF	20.00%	50V
C1274	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1275	1-126-948-11	ELECT	100UF	20.00%	35V
C1286	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1287	1-126-963-11	ELECT	4.7UF	20.00%	50V
C1288	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C1289	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1290	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1291	1-104-665-11	ELECT	100UF	20.00%	25V
C1292	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1293	1-126-964-11	ELECT	10UF	20.00%	50V
C1294	1-126-964-11	ELECT	10UF	20.00%	50V
C1295	1-126-964-11	ELECT	10UF	20.00%	50V
C1296	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1297	1-136-161-00	FILM	0.047UF	5.00%	50V
C1298	1-126-960-11	ELECT	1UF	20.00%	50V
C1299	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1301	1-126-933-11	ELECT	100UF	20.00%	16V
C1302	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C1303	1-104-665-11	ELECT	100UF	20.00%	25V
C1304	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C1305	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C1312	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C1322	1-136-161-00	FILM	0.047UF	5.00%	50V
C2200	1-126-964-11	ELECT	10UF	20.00%	50V
C2201	1-126-964-11	ELECT	10UF	20.00%	50V
C2202	1-126-964-11	ELECT	10UF	20.00%	50V
C2203	1-126-963-11	ELECT	4.7UF	20.00%	50V
C2204	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2205	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2206	1-126-964-11	ELECT	10UF	20.00%	50V
C2207	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2208	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2209	1-126-968-11	ELECT	100UF	20.00%	50V
C2600	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2601	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2602	1-126-933-11	ELECT	100UF	20.00%	16V
C2603	1-126-933-11	ELECT	100UF	20.00%	16V
C2605	1-104-665-11	ELECT	100UF	20.00%	10V
C2606	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2607	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2609	1-104-665-11	ELECT	100UF	20.00%	10V
C2610	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2612	1-104-665-11	ELECT	100UF	20.00%	25V
C2613	1-126-936-11	ELECT	3300UF	20.00%	16V
C2615	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

REF NO.	PART NO.	DESCRIPTION		REMARK	
C2616	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C2617	1-104-665-11	ELECT	100UF	20.00%	10V
C3302	1-126-964-11	ELECT	10UF	20.00%	50V
C3336	1-126-933-11	ELECT	100UF	20.00%	16V
C3337	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C3338	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3350	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3351	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3352	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C3353	1-126-933-11	ELECT	100UF	20.00%	16V
C3354	1-126-967-11	ELECT	47UF	20.00%	50V
C3355	1-126-967-11	ELECT	47UF	20.00%	50V
C4300	1-126-964-11	ELECT	10UF	20.00%	50V
C4301	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4303	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C4307	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4308	1-126-960-11	ELECT	1UF	20.00%	50V
C4309	1-164-489-11	CERAMIC CHIP	0.22UF	10.00%	16V
C4316	1-126-947-11	ELECT	47UF	20.00%	25V
C4317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4318	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4319	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4320	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4321	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4322	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4324	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4325	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C4326	1-164-346-11	CERAMIC CHIP	1UF		16V
C4327	1-164-346-11	CERAMIC CHIP	1UF		16V
C4328	1-164-346-11	CERAMIC CHIP	1UF		16V
C4329	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4330	1-136-244-11	FILM	0.1UF	5.00%	50V
C4331	1-126-959-11	ELECT	0.47UF	20.00%	50V
C4332	1-136-161-00	FILM	0.047UF	5.00%	50V
C4333	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4334	1-126-967-11	ELECT	47UF	20.00%	50V
C4336	1-126-967-11	ELECT	47UF	20.00%	50V
C4338	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4339	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C4340	1-126-933-11	ELECT	100UF	20.00%	16V
C4341	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C4342	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4343	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4344	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C4345	1-126-967-11	ELECT	47UF	20.00%	50V
C4346	1-164-346-11	CERAMIC CHIP	1UF		16V
C4348	1-164-346-11	CERAMIC CHIP	1UF		16V
C4349	1-164-346-11	CERAMIC CHIP	1UF		16V
C4350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4351	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C4352	1-126-967-11	ELECT	47UF	20.00%	50V
C4353	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C4355	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4356	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4359	1-164-161-11	CERAMIC CHIP	0.0022UF	10.00%	50V
C4360	1-126-963-11	ELECT	4.7UF	20.00%	50V
C4362	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C4363	1-126-967-11	ELECT	47UF	20.00%	50V
C4364	1-126-967-11	ELECT	47UF	20.00%	50V
C4366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C4367	1-115-185-11	CERAMIC CHIP (KV-EX29K94)	0.033UF	10.00%	50V
C4367	1-163-989-11	CERAMIC CHIP (KV-EX34K94)	0.033UF	10.00%	25V
C4369	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4370	1-126-967-11	ELECT	47UF	20.00%	50V
C4371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4378	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C4380	1-163-037-11	CERAMIC CHIP (KV-EX34K94 ONLY)	0.022UF	10.00%	50V
C8300	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8301	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8302	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8303	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8304	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8305	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8306	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8307	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8308	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8309	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8310	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C8311	1-164-346-11	CERAMIC CHIP	1UF		16V
C8312	1-164-346-11	CERAMIC CHIP	1UF		16V
C8313	1-164-346-11	CERAMIC CHIP	1UF		16V
C8314	1-164-346-11	CERAMIC CHIP	1UF		16V
C8317	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8318	1-164-346-11	CERAMIC CHIP	1UF		16V
C8319	1-164-346-11	CERAMIC CHIP	1UF		16V
C8320	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8321	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8322	1-164-346-11	CERAMIC CHIP	1UF		16V
C8323	1-164-346-11	CERAMIC CHIP	1UF		16V
C8324	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8325	1-126-935-11	ELECT	470UF	20.00%	16V
C8326	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8330	1-164-346-11	CERAMIC CHIP	1UF		16V
C8331	1-164-346-11	CERAMIC CHIP	1UF		16V
C8336	1-126-947-11	ELECT	47UF	20.00%	16V
C8337	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8338	1-164-346-11	CERAMIC CHIP	1UF		16V
C8339	1-164-346-11	CERAMIC CHIP	1UF		16V
C8340	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8341	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8342	1-126-964-11	ELECT	10UF	20.00%	50V
C8343	1-126-947-11	ELECT	47UF	20.00%	16V
C8346	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8349	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8354	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8355	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8356	1-164-346-11	CERAMIC CHIP	1UF		16V
C8357	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8358	1-164-346-11	CERAMIC CHIP	1UF		16V
C8359	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C8360	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8361	1-126-961-11	ELECT	2.2UF	20.00%	50V
C8366	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8367	1-126-947-11	ELECT	47UF	20.00%	16V
C8368	1-126-947-11	ELECT	47UF	20.00%	16V
C8369	1-126-947-11	ELECT	47UF	20.00%	16V
C8370	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

REF NO.	PART NO.	DESCRIPTION		REMARK	
C8371	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8372	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8373	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8375	1-126-964-11	ELECT	10UF	20.00%	50V
C8376	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8377	1-164-346-11	CERAMIC CHIP	1UF		16V
C8378	1-164-346-11	CERAMIC CHIP	1UF		16V
C8379	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8380	1-164-346-11	CERAMIC CHIP	1UF		16V
C8381	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C8382	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8383	1-164-346-11	CERAMIC CHIP	1UF		16V
C8384	1-164-346-11	CERAMIC CHIP	1UF		16V
C8385	1-164-346-11	CERAMIC CHIP	1UF		16V
C8386	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8390	1-126-963-11	ELECT	4.7UF	20.00%	50V
C8391	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8392	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8393	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8411	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8413	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8430	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8431	1-163-243-11	CERAMIC CHIP	47PF	5.00%	50V
C8432	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V
C8441	1-164-346-11	CERAMIC CHIP	1UF		16V
C8446	1-126-947-11	ELECT	47UF	20.00%	16V
C8447	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8448	1-164-690-91	CERAMIC CHIP	0.0022UF	5.00%	50V
C8450	1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C8451	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C8452	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8453	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8454	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8455	1-126-947-11	ELECT	47UF	20.00%	16V
C8456	1-126-947-11	ELECT	47UF	20.00%	16V
C8457	1-126-947-11	ELECT	47UF	20.00%	16V
C8459	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8462	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8480	1-164-346-11	CERAMIC CHIP	1UF		16V

<CONNECTOR>

CN1100	*	1-785-608-11	PIN, CONNECTOR 4P
CN1108		1-793-494-11	CONNECTOR, BOARD TO BOARD 40P
CN1114	*	1-564-507-11	PLUG, CONNECTOR 4P
CN1116		1-695-915-11	TAB (CONTACT)
CN1118		1-793-493-11	CONNECTOR, BOARD TO BOARD 20P
CN1190	*	1-764-333-11	PLUG, CONNECTOR 10P
CN1193	*	1-764-333-11	PLUG, CONNECTOR 10P
CN2600		1-695-915-11	TAB (CONTACT)
CN4500	*	1-764-333-11	PLUG, CONNECTOR 10P
CN8301	*	1-764-333-11	PLUG, CONNECTOR 10P
CN8302	*	1-564-511-11	PLUG, CONNECTOR 8P
CN8402		1-793-493-11	CONNECTOR, BOARD TO BOARD 20P

<DIODE>

D001	8-719-404-50	MA111-TX
D002	8-719-404-50	MA111-TX
D003	8-719-404-50	MA111-TX
D004	8-719-404-50	MA111-TX
D005	8-719-404-50	MA111-TX

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REF NO.	PART NO.	DESCRIPTION	REMARK
D006	8-719-404-50	MA111-TX	
D007	8-719-158-18	RD5.6SB3	
D013	8-719-158-18	RD5.6SB3	
D300	1-216-295-91	SHORT 0	
D301	8-719-404-50	MA111-TX	
D302	8-719-404-50	MA111-TX	
D317	8-719-404-50	MA111-TX	
D1200	8-719-978-69	DTZ-TT11-16B	
D1201	8-719-988-61	1SS355TE-17	
D1203	8-719-404-50	MA111-TX	
D1204	8-719-404-50	MA111-TX	
D1216	8-719-404-50	MA111-TX	
D2200	8-719-158-35	RD9.1S-B	
D2201	8-719-158-35	RD9.1S-B	
D4303	8-719-109-72	RD3.9ES-B2	
D4304	8-719-977-22	DTZ9.1	
D4305	8-719-977-22	DTZ9.1	
D4306	8-719-404-50	MA111-TX	
D4311	8-719-914-43	DAN202K	
D4312	8-719-914-43	DAN202K	
D4313	8-719-401-63	MA3062M-TX	
D4314	8-719-404-50	MA111-TX	
D8301	8-719-158-35	RD9.1S-B	
D8302	8-719-158-35	RD9.1S-B	
D8303	8-719-158-35	RD9.1S-B	
D8304	8-719-158-35	RD9.1S-B	
D8305	8-719-158-35	RD9.1S-B	
D8306	8-719-158-35	RD9.1S-B	
D8307	8-719-158-35	RD9.1S-B	
D8308	8-719-158-35	RD9.1S-B	
D8309	8-719-158-35	RD9.1S-B	
D8310	8-719-158-35	RD9.1S-B	
D8311	8-719-158-35	RD9.1S-B	
D8312	8-719-158-35	RD9.1S-B	
D8313	8-719-158-35	RD9.1S-B	
D8314	8-719-158-35	RD9.1S-B	
D8315	8-719-158-35	RD9.1S-B	
D8316	8-719-158-35	RD9.1S-B	
D8320	8-719-158-35	RD9.1S-B	
D8321	8-719-158-35	RD9.1S-B	
D8322	8-719-158-35	RD9.1S-B	
D8323	8-719-158-35	RD9.1S-B	
D8324	8-719-158-35	RD9.1S-B	
D8325	8-719-158-35	RD9.1S-B	
D8331	8-719-041-97	MA113-(TX)	
		<FERRITE BEAD>	
FB002	1-414-233-22	FERRITE 0UH	
FB003	1-414-233-22	FERRITE 0UH	
FB004	1-414-233-22	FERRITE 0UH	
FB005	1-414-233-22	FERRITE 0UH	
FB006	1-414-233-22	FERRITE 0UH	
FB008	1-414-233-22	FERRITE 0UH	
FB1300	1-216-295-91	SHORT 0	
FB2300	1-410-397-21	FERRITE 1.1UH	
FB4387	1-216-295-91	SHORT 0	
FB4388	1-216-295-91	SHORT 0	
FB4389	1-216-295-91	SHORT 0	

REF NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
FL001	1-236-071-11	ENCAPSULATED COMPONENT	
FL8301	1-236-071-11	ENCAPSULATED COMPONENT	
FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
FL8305	1-236-071-11	ENCAPSULATED COMPONENT	
FL8311	1-236-071-11	ENCAPSULATED COMPONENT	
		<IC>	
IC001	8-752-925-22	IC CXP750096-043Q	
IC002	8-759-663-29	MM1476AF(TP)	
IC003	8-759-699-33	M24C16-MN6T(A)	
IC1200	8-759-100-96	UPC4558G2	
IC1201	8-759-690-57	BH3868BFS-E2	
IC1203	8-759-100-96	UPC4558G2	
IC1204	6-700-540-01	IC AN7582Z	
IC1205	8-759-711-10	NJU4066BM	
IC1206	8-759-689-71	NJM2188M-TE2	
IC2200	8-759-745-64	NJM4560M	
IC2600	8-759-095-63	PQ09RF2	
IC2601	8-759-065-07	PQ05RF2	
IC2603	8-759-445-59	BA033T	
IC4301	8-752-090-87	CXA2100AQ	
IC8302	8-752-080-04	CXA2069Q	
IC8306	8-752-096-06	CXA2163Q-T6	
IC8309	8-759-337-26	MM1115XFBE	
IC8310	8-759-572-04	TDA9178T/N1.118	
IC8312	8-759-485-79	TC7SET08FU(TE85L	
		<JACK>	
J8301	1-784-646-11	TERMINAL, S	
J8302	1-778-387-11	JACK BLOCK, PIN 12P	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	SHORT 0	
JR107	1-216-295-91	SHORT 0	
JR111	1-216-295-91	SHORT 0	
JR1214	1-216-295-91	SHORT 0	
JR1219	1-216-295-91	SHORT 0	
JR1220	1-216-295-91	SHORT 0	
JR1221	1-216-295-91	SHORT 0	
JR1301	1-216-295-91	SHORT 0	
JR1302	1-216-295-91	SHORT 0	
JR4301	1-216-295-91	SHORT 0	
JR4302	1-216-295-91	SHORT 0	
JR4303	1-216-295-91	SHORT 0	
		<COIL>	
L001	1-414-856-11	INDUCTOR 10UH	
L002	1-414-856-11	INDUCTOR 10UH	
L003	1-414-751-11	INDUCTOR 1UH	
L005	1-414-856-11	INDUCTOR 10UH	
L006	1-412-525-31	INDUCTOR 10UH	
L101	1-414-856-11	INDUCTOR 10UH	
L102	1-414-856-11	INDUCTOR 10UH	
L103	1-414-856-11	INDUCTOR 10UH	
L104	1-414-856-11	INDUCTOR 10UH	
L105	1-414-856-11	INDUCTOR 10UH	

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REF NO.	PART NO.	DESCRIPTION	REMARK
L1200	1-414-856-11	INDUCTOR 10UH	
L1201	1-414-856-11	INDUCTOR 10UH	
L1300	1-414-856-11	INDUCTOR 10UH	
L3303	1-414-856-11	INDUCTOR 10UH	
L3304	1-414-856-11	INDUCTOR 10UH	
L3305	1-414-856-11	INDUCTOR 10UH	
L3306	1-414-856-11	INDUCTOR 10UH	
L4301	1-412-029-11	INDUCTOR 10UH	
L4302	1-412-029-11	INDUCTOR 10UH	
L4303	1-412-030-11	INDUCTOR 22UH	
L4304	1-412-029-11	INDUCTOR 10UH	
L4305	1-412-029-11	INDUCTOR 10UH	
L4306	1-412-029-11	INDUCTOR 10UH	
L4308	1-412-031-11	INDUCTOR 47UH	
L4309	1-412-031-11	INDUCTOR 47UH	
L4311	1-412-002-31	INDUCTOR 4.7UH	
L8302	1-414-196-41	INDUCTOR 47UH	
L8303	1-414-196-41	INDUCTOR 47UH	
L8304	1-414-196-41	INDUCTOR 47UH	
		<IC LINK>	
PS1201	1-533-597-41	LINK, IC	
		<TRANSISTOR>	
Q001	8-729-026-49	2SA1037AK-T146-R	
Q002	8-729-230-49	2SC2712-YG	
Q003	8-729-230-49	2SC2712-YG	
Q004	8-729-230-49	2SC2712-YG	
Q008	8-729-230-49	2SC2712-YG (KV-EX34K94 ONLY)	
Q101	8-729-026-49	2SA1037AK-T146-R	
Q301	8-729-026-49	2SA1037AK-T146-R	
Q313	8-729-230-49	2SC2712-YG	
Q1203	8-729-027-44	DTC114TKA-T146	
Q1207	8-729-216-22	2SA1162-G	
Q1208	8-729-027-44	DTC114TKA-T146	
Q1210	8-729-027-44	DTC114TKA-T146	
Q2200	8-729-027-56	DTC143TKA-T146	
Q2201	8-729-027-56	DTC143TKA-T146	
Q3300	8-729-026-49	2SA1037AK-T146-R	
Q4300	8-729-422-33	2SD601A-Q-TX	
Q4301	8-729-230-49	2SC2712-YG	
Q4302	8-729-424-02	2SB709A-QRS-TX	
Q4303	8-729-120-28	2SC1623-L5L6	
Q4304	8-729-230-49	2SC2712-YG	
Q4307	8-729-424-02	2SB709A-QRS-TX	
Q4308	8-729-424-02	2SB709A-QRS-TX	
Q4310	8-729-424-02	2SB709A-QRS-TX	
Q4311	8-729-424-02	2SB709A-QRS-TX	
Q4312	8-729-424-02	2SB709A-QRS-TX	
Q4313	8-729-422-33	2SD601A-Q-TX	
Q4314	8-729-424-02	2SB709A-QRS-TX	
Q4315	1-801-806-11	TR DTC144EKA	
Q4316	8-729-230-49	2SC2712-YG	
Q4317	8-729-900-53	DTC114EK	
Q4318	8-729-230-49	2SC2712-YG (KV-EX34K94 only)	
Q4319	8-729-424-02	2SB709A-QRS-TX	
Q8301	8-729-026-49	2SA1037AK-T146-R	
Q8302	8-729-230-49	2SC2712-YG	
Q8303	8-729-230-49	2SC2712-YG	

REF NO.	PART NO.	DESCRIPTION	REMARK
Q8306	8-729-230-49	2SC2712-YG	
Q8310	8-729-230-49	2SC2712-YG	
Q8319	8-729-026-49	2SA1037AK-T146-R	
Q8320	8-729-026-49	2SA1037AK-T146-R	
Q8321	8-729-026-49	2SA1037AK-T146-R	
Q8325	8-729-230-49	2SC2712-YG	
Q8326	8-729-230-49	2SC2712-YG	
Q8327	1-801-806-11	TR DTC144EKA	
Q8328	1-801-806-11	TR DTC144EKA	
Q8329	8-729-230-49	2SC2712-YG	
Q8330	8-729-230-49	2SC2712-YG	
Q8331	8-729-230-49	2SC2712-YG	
Q8332	8-729-230-49	2SC2712-YG	
Q8333	8-729-230-49	2SC2712-YG	
Q8334	8-729-230-49	2SC2712-YG	
Q8335	8-729-230-49	2SC2712-YG	
Q8336	8-729-230-49	2SC2712-YG	
Q8337	8-729-230-49	2SC2712-YG	
Q8344	8-729-026-49	2SA1037AK-T146-R	
Q8351	8-729-230-49	2SC2712-YG	
Q8352	8-729-026-49	2SA1037AK-T146-R	
Q8358	1-801-806-11	TR DTC144EKA	
Q8359	1-801-806-11	TR DTC144EKA	
Q8360	1-801-806-11	TR DTC144EKA	
Q8361	8-729-230-49	2SC2712-YG	
Q8362	8-729-230-49	2SC2712-YG	
Q8363	8-729-230-49	2SC2712-YG	
Q8364	8-729-026-49	2SA1037AK-T146-R	
		<RESISTOR>	
R001	1-216-033-00	RES-CHIP 220 5% 1/10W	
R002	1-216-033-00	RES-CHIP 220 5% 1/10W	
R004	1-216-295-91	SHORT 0	
R005	1-216-295-91	SHORT 0	
R006	1-216-029-00	RES-CHIP 150 5% 1/10W	
R007	1-216-033-00	RES-CHIP 220 5% 1/10W	
R008	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R009	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R010	1-216-061-91	RES-CHIP 3.3K 5% 1/10W	
R011	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R012	1-216-061-91	RES-CHIP 3.3K 5% 1/10W	
R013	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R014	1-216-025-11	RES-CHIP 100 5% 1/10W	
R015	1-216-025-11	RES-CHIP 100 5% 1/10W	
R016	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R017	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R018	1-216-045-00	RES-CHIP 680 5% 1/10W	
R019	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R020	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R021	1-216-295-91	SHORT 0	
R022	1-216-033-00	RES-CHIP 220 5% 1/10W	
R023	1-216-025-11	RES-CHIP 100 5% 1/10W	
R024	1-216-063-91	RES-CHIP 3.9K 5% 1/10W	
R025	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R026	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R027	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R028	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R029	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R030	1-216-025-11	RES-CHIP 100 5% 1/10W	
R031	1-216-033-00	RES-CHIP 220 5% 1/10W	
R032	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R033	1-216-033-00	RES-CHIP 220 5% 1/10W	

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R035	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R036	1-216-083-00	RES-CHIP	27K	5%	1/10W
R037	1-216-083-00	RES-CHIP	27K	5%	1/10W
R038	1-216-045-00	RES-CHIP	680	5%	1/10W
R039	1-216-025-11	RES-CHIP	100	5%	1/10W
R040	1-216-033-00	RES-CHIP	220	5%	1/10W
R041	1-216-025-11	RES-CHIP	100	5%	1/10W
R042	1-216-295-91	SHORT	0		
R043	1-216-025-11	RES-CHIP	100	5%	1/10W
R044	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R045	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R046	1-216-033-00	RES-CHIP	220	5%	1/10W
R047	1-216-033-00	RES-CHIP	220	5%	1/10W
R048	1-216-073-91	RES-CHIP	10K	5%	1/10W
R049	1-216-689-11	RES-CHIP	39K	5%	1/10W
R050	1-216-689-11	RES-CHIP	39K	5%	1/10W
R051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R052	1-216-049-11	RES-CHIP	1K	5%	1/10W
R053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R054	1-216-049-11	RES-CHIP	1K	5%	1/10W
R055	1-216-295-91	SHORT	0		
R058	1-216-295-91	SHORT	0		
R060	1-216-089-91	RES-CHIP (KV-EX34K94 ONLY)	47K	5%	1/10W
R062	1-216-069-00	RES-CHIP (KV-EX34K94 ONLY)	6.8K	5%	1/10W
R065	1-216-045-00	RES-CHIP	680	5%	1/10W
R066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R067	1-216-049-11	RES-CHIP	1K	5%	1/10W
R068	1-216-073-91	RES-CHIP	10K	5%	1/10W
R069	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R070	1-216-033-00	RES-CHIP	220	5%	1/10W
R071	1-216-025-11	RES-CHIP	100	5%	1/10W
R072	1-216-025-11	RES-CHIP	100	5%	1/10W
R073	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R074	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R075	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R076	1-216-295-91	SHORT	0		
R077	1-216-025-11	RES-CHIP	100	5%	1/10W
R078	1-216-295-91	SHORT	0		
R079	1-216-025-11	RES-CHIP	100	5%	1/10W
R080	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R081	1-216-025-11	RES-CHIP	100	5%	1/10W
R082	1-216-041-00	RES-CHIP	470	5%	1/10W
R083	1-216-049-11	RES-CHIP	1K	5%	1/10W
R084	1-216-049-11	RES-CHIP	1K	5%	1/10W
R085	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R086	1-216-073-91	RES-CHIP	10K	5%	1/10W
R087	1-216-033-00	RES-CHIP	220	5%	1/10W
R093	1-216-073-91	RES-CHIP	10K	5%	1/10W
R094	1-216-073-91	RES-CHIP	10K	5%	1/10W
R100	1-216-025-11	RES-CHIP	100	5%	1/10W
R104	1-216-025-11	RES-CHIP	100	5%	1/10W
R105	1-216-295-91	SHORT	0		
R106	1-216-049-11	RES-CHIP	1K	5%	1/10W
R107	1-216-073-91	RES-CHIP (KV-EX34K94)	10K	5%	1/10W
R109	1-216-041-00	RES-CHIP	470	5%	1/10W
R110	1-216-043-91	RES-CHIP	560	5%	1/10W
R111	1-216-025-11	RES-CHIP	100	5%	1/10W
R112	1-216-025-11	RES-CHIP	100	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R114	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R116	1-216-025-11	RES-CHIP	100	5%	1/10W
R117	1-216-025-11	RES-CHIP	100	5%	1/10W
R118	1-216-025-11	RES-CHIP	100	5%	1/10W
R123	1-216-025-11	RES-CHIP	100	5%	1/10W
R124	1-216-025-11	RES-CHIP	100	5%	1/10W
R301	1-216-113-00	RES-CHIP	470K	5%	1/10W
R302	1-216-089-91	RES-CHIP	47K	5%	1/10W
R303	1-216-089-91	RES-CHIP	47K	5%	1/10W
R1200	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1201	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1202	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1203	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1204	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1205	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1206	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1207	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R1210	1-216-095-00	RES-CHIP	82K	5%	1/10W
R1211	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1212	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1213	1-216-085-91	RES-CHIP	33K	5%	1/10W
R1214	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R1215	1-216-095-00	RES-CHIP	82K	5%	1/10W
R1216	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1217	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1218	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R1219	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1220	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1221	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1222	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R1224	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1227	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R1228	1-249-405-11	CARBON	100	5%	1/4W
R1230	1-249-405-11	CARBON	100	5%	1/4W
R1231	1-216-295-91	SHORT	0		
R1232	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1236	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1238	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1239	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1253	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1254	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1256	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1257	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1258	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1259	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1263	1-216-073-91	RES-CHIP	10K	5%	1/10W
R1265	1-249-397-11	CARBON	22	5%	1/4W
R1268	1-249-397-11	CARBON	22	5%	1/4W
R1288	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1289	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1290	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1291	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1292	1-216-085-91	RES-CHIP	33K	5%	1/10W
R1293	1-216-025-11	RES-CHIP	100	5%	1/10W
R1294	1-216-025-11	RES-CHIP	100	5%	1/10W
R2200	1-216-021-00	RES-CHIP	68	5%	1/10W
R2201	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2202	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2203	1-216-021-00	RES-CHIP	68	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R2204	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2205	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2206	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2207	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2208	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2209	1-216-117-00	RES-CHIP	680K	5%	1/10W
R2210	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2211	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2212	1-216-073-91	RES-CHIP	10K	5%	1/10W
R2213	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2214	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2215	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2605	1-216-371-00	METAL OXIDE	1.5	5%	2W
R3300	1-216-043-91	RES-CHIP	560	5%	1/10W
R3304	1-216-041-00	RES-CHIP	470	5%	1/10W
R3320	1-216-073-91	RES-CHIP	10K	5%	1/10W
R3323	1-216-025-11	RES-CHIP	100	5%	1/10W
R3334	1-216-025-11	RES-CHIP	100	5%	1/10W
R3362	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3374	1-216-295-91	SHORT	0		
R4300	1-216-025-11	RES-CHIP	100	5%	1/10W
R4301	1-216-025-11	RES-CHIP	100	5%	1/10W
R4302	1-216-025-11	RES-CHIP	100	5%	1/10W
R4303	1-216-025-11	RES-CHIP	100	5%	1/10W
R4304	1-216-025-11	RES-CHIP	100	5%	1/10W
R4305	1-216-025-11	RES-CHIP	100	5%	1/10W
R4308	1-216-295-91	SHORT	0		
R4310	1-216-295-91	SHORT	0		
R4312	1-216-295-91	SHORT	0		
R4313	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4314	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4316	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R4317	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4318	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R4319	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R4320	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4321	1-216-298-00	RES-CHIP	2.2	5%	1/10W
R4323	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4324	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R4325	1-208-818-11	METAL CHIP	33K	0.5%	1/10W
R4326	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R4327	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4329	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R4330	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4335	1-216-025-11	RES-CHIP	100	5%	1/10W
R4336	1-216-025-11	RES-CHIP	100	5%	1/10W
R4337	1-216-025-11	RES-CHIP	100	5%	1/10W
R4338	1-216-041-00	RES-CHIP	470	5%	1/10W
R4339	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4341	1-216-295-91	SHORT	0		
R4343	1-216-025-11	RES-CHIP	100	5%	1/10W
R4344	1-216-025-11	RES-CHIP	100	5%	1/10W
R4345	1-216-075-00	RES-CHIP	12K	5%	1/10W
R4346	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R4347	1-216-025-11	RES-CHIP	100	5%	1/10W
R4348	1-216-025-11	RES-CHIP	100	5%	1/10W
R4349	1-216-041-00	RES-CHIP	470	5%	1/10W
R4350	1-216-025-11	RES-CHIP	100	5%	1/10W
R4351	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4352	1-216-041-00	RES-CHIP	470	5%	1/10W
R4353	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R4354	1-208-806-11	METAL CHIP	10K	0.5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R4357	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4358	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R4359	1-216-043-91	RES-CHIP	560	5%	1/10W
R4360	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4361	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R4363	1-216-025-11	RES-CHIP	100	5%	1/10W
R4365	1-216-025-11	RES-CHIP	100	5%	1/10W
R4366	1-216-025-11	RES-CHIP	100	5%	1/10W
R4367	1-216-025-11	RES-CHIP	100	5%	1/10W
R4369	1-216-025-11	RES-CHIP	100	5%	1/10W
R4370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4372	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4373	1-216-295-91	SHORT	0		
R4374	1-216-025-11	RES-CHIP	100	5%	1/10W
R4375	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4376	1-216-025-11	RES-CHIP	100	5%	1/10W
R4377	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4380	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4381	1-208-851-11	METAL CHIP	750K	0.5%	1/10W
R4382	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4383	1-208-825-11	METAL CHIP (KV-EX29K94)	62K	0.5%	1/10W
R4383	1-216-079-00	RES-CHIP (KV-EX34K94)	18K	5%	1/10W
R4384	1-216-025-11	RES-CHIP	100	5%	1/10W
R4385	1-216-295-91	SHORT	0 (KV-EX29K94)		
R4385	1-208-854-11	METAL CHIP (KV-EX34K94)	1M	0.5%	1/10W
R4387	1-216-295-91	SHORT	0		
R4388	1-216-295-91	SHORT	0		
R4389	1-216-295-91	SHORT	0		
R4390	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4391	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4392	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4395	1-216-295-91	SHORT	0		
R4396	1-216-295-91	SHORT	0		
R4397	1-216-295-91	SHORT	0		
R4399	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R4401	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4402	1-208-848-11	METAL CHIP (KV-EX34K94 ONLY)	560K	0.5%	1/10W
R4403	1-216-049-11	RES-CHIP (KV-EX34K94 ONLY)	1K	5%	1/10W
R4404	1-216-081-00	RES-CHIP (KV-EX34K94 ONLY)	22K	5%	1/10W
R4406	1-216-097-11	RES-CHIP (KV-EX34K94 ONLY)	100K	5%	1/10W
R4408	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4409	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4411	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R4412	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4413	1-208-824-11	METAL CHIP (KV-EX29K94)	56K	0.5%	1/10W
R4413	1-208-828-11	METAL CHIP (KV-EX34K94)	82K	0.5%	1/10W
R4504	1-216-295-91	SHORT	0		
R4505	1-216-295-91	SHORT	0		
R4506	1-216-295-91	SHORT	0		
R4518	1-216-025-11	RES-CHIP	100	5%	1/10W
R4519	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8300	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8301	1-216-041-00	RES-CHIP	470	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R8302	1-216-041-00	RES-CHIP	470	5%	1/10W
R8303	1-216-021-00	RES-CHIP	68	5%	1/10W
R8304	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8305	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8306	1-216-022-00	RES-CHIP	75	5%	1/10W
R8307	1-216-022-00	RES-CHIP	75	5%	1/10W
R8308	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8309	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8310	1-216-022-00	RES-CHIP	75	5%	1/10W
R8311	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8312	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8313	1-216-022-00	RES-CHIP	75	5%	1/10W
R8314	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8315	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8316	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8322	1-216-022-00	RES-CHIP	75	5%	1/10W
R8323	1-216-295-91	SHORT	0		
R8324	1-216-295-91	SHORT	0		
R8325	1-216-295-91	SHORT	0		
R8326	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8327	1-216-295-91	SHORT	0		
R8328	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8329	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8330	1-216-022-00	RES-CHIP	75	5%	1/10W
R8334	1-216-295-91	SHORT	0		
R8336	1-216-295-91	SHORT	0		
R8337	1-216-022-00	RES-CHIP	75	5%	1/10W
R8338	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8339	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8340	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8341	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8342	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8343	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8344	1-216-022-00	RES-CHIP	75	5%	1/10W
R8345	1-216-033-00	RES-CHIP	220	5%	1/10W
R8346	1-216-031-00	RES-CHIP	180	5%	1/10W
R8347	1-216-025-11	RES-CHIP	100	5%	1/10W
R8348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8349	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8350	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8351	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8352	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8353	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8354	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8355	1-216-295-91	SHORT	0		
R8356	1-216-295-91	SHORT	0		
R8357	1-216-017-91	RES-CHIP	47	5%	1/10W
R8358	1-216-017-91	RES-CHIP	47	5%	1/10W
R8361	1-216-017-91	RES-CHIP	47	5%	1/10W
R8364	1-216-041-00	RES-CHIP	470	5%	1/10W
R8365	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8366	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R8367	1-216-041-00	RES-CHIP	470	5%	1/10W
R8370	1-216-025-11	RES-CHIP	100	5%	1/10W
R8372	1-216-295-91	SHORT	0		
R8373	1-216-295-91	SHORT	0		
R8376	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8377	1-216-025-11	RES-CHIP	100	5%	1/10W
R8378	1-216-033-00	RES-CHIP	220	5%	1/10W
R8379	1-216-033-00	RES-CHIP	220	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R8380	1-216-025-11	RES-CHIP	100	5%	1/10W
R8381	1-216-025-11	RES-CHIP	100	5%	1/10W
R8382	1-216-033-00	RES-CHIP	220	5%	1/10W
R8383	1-216-033-00	RES-CHIP	220	5%	1/10W
R8395	1-216-033-00	RES-CHIP	220	5%	1/10W
R8396	1-216-033-00	RES-CHIP	220	5%	1/10W
R8399	1-216-025-11	RES-CHIP	100	5%	1/10W
R8400	1-216-025-11	RES-CHIP	100	5%	1/10W
R8411	1-216-083-00	RES-CHIP	27K	5%	1/10W
R8414	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R8415	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8417	1-216-025-11	RES-CHIP	100	5%	1/10W
R8418	1-216-025-11	RES-CHIP	100	5%	1/10W
R8419	1-216-017-91	RES-CHIP	47	5%	1/10W
R8420	1-216-017-91	RES-CHIP	47	5%	1/10W
R8435	1-216-295-91	SHORT	0		
R8441	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8442	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8446	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8447	1-216-025-11	RES-CHIP	100	5%	1/10W
R8448	1-216-025-11	RES-CHIP	100	5%	1/10W
R8449	1-216-025-11	RES-CHIP	100	5%	1/10W
R8450	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8451	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8452	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8453	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8454	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8455	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8464	1-216-025-11	RES-CHIP	100	5%	1/10W
R8465	1-216-025-11	RES-CHIP	100	5%	1/10W
R8466	1-216-025-11	RES-CHIP	100	5%	1/10W
R8467	1-216-041-00	RES-CHIP	470	5%	1/10W
R8468	1-216-041-00	RES-CHIP	470	5%	1/10W
R8469	1-216-041-00	RES-CHIP	470	5%	1/10W
R8470	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8471	1-216-025-11	RES-CHIP	100	5%	1/10W
R8476	1-216-033-00	RES-CHIP	220	5%	1/10W
R8477	1-216-033-00	RES-CHIP	220	5%	1/10W
R8478	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8479	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8480	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8481	1-216-095-00	RES-CHIP	82K	5%	1/10W
R8482	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8484	1-216-045-00	RES-CHIP	680	5%	1/10W
R8485	1-216-037-00	RES-CHIP	330	5%	1/10W
R8486	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8487	1-216-045-00	RES-CHIP	680	5%	1/10W
R8488	1-216-041-00	RES-CHIP	470	5%	1/10W
R8489	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8490	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8491	1-216-025-11	RES-CHIP	100	5%	1/10W
R8492	1-216-041-00	RES-CHIP	470	5%	1/10W
R8493	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8494	1-216-041-00	RES-CHIP	470	5%	1/10W
R8495	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8496	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8497	1-216-025-11	RES-CHIP	100	5%	1/10W
R8498	1-216-043-91	RES-CHIP	560	5%	1/10W
R8499	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8500	1-216-033-00	RES-CHIP	220	5%	1/10W
R8501	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8502	1-216-049-11	RES-CHIP	1K	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R8507	1-216-025-11	RES-CHIP	100	5%	1/10W
R8508	1-216-025-11	RES-CHIP	100	5%	1/10W
R8509	1-216-025-11	RES-CHIP	100	5%	1/10W
R8513	1-216-039-00	RES-CHIP	390	5%	1/10W
R8514	1-216-039-00	RES-CHIP	390	5%	1/10W
R8515	1-216-295-91	SHORT	0		
R8516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8518	1-216-047-91	RES-CHIP	820	5%	1/10W
R8519	1-216-047-91	RES-CHIP	820	5%	1/10W
R8536	1-216-025-11	RES-CHIP	100	5%	1/10W
R8538	1-216-041-00	RES-CHIP	470	5%	1/10W
R8540	1-216-041-00	RES-CHIP	470	5%	1/10W
R8541	1-216-039-00	RES-CHIP	390	5%	1/10W
R8551	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8576	1-216-013-00	RES-CHIP	33	5%	1/10W
R8577	1-216-295-91	SHORT	0		
R8578	1-216-033-00	RES-CHIP	220	5%	1/10W
R8579	1-216-295-91	SHORT	0		
R8582	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8583	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8584	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R8593	1-216-025-11	RES-CHIP	100	5%	1/10W
		<TUNER>			
TU101	8-598-475-10	TUNER, FSS BTF-WL411			
TU3301	8-598-430-30	TUNER, FSS BTF-FA401			
		<CRYSTAL>			
X001	1-567-928-11	VIBLATOR, CERAMIC			
X4300	1-767-127-11	VIBRATOR, CERAMIC			
X8301	1-781-612-11	VIBRATOR, CRYSTAL			

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* A-1136-132-A B3 BOARD COMPLETE
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<CAPACITOR>

C501	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C502	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C503	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C505	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C507	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C511	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C512	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C514	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C515	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C516	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C517	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C518	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C519	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C520	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C521	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C522	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C523	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C524	1-124-779-00	ELECT CHIP	10UF	20.00%	16V
C525	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C526	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C527	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C528	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C539	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C540	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C543	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C545	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C546	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C548	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C549	1-126-204-11	ELECT CHIP	47UF	20.00%	16V
C550	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C551	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C554	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C555	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C556	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C557	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C559	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C560	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C601	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C602	1-126-394-11	ELECT CHIP	10UF	20.00%	16V
C603	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C604	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C605	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C606	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C607	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C608	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C609	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C610	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C611	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C612	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C613	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C614	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C615	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C616	1-126-396-11	ELECT CHIP	47UF	20.00%	16V
C617	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C618	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C619	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C620	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C621	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C622	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C623	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C624	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C625	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C626	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C627	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C628	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C629	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C630	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C631	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C632	1-126-206-11	ELECT CHIP	100UF	20.00%	6.3V
C633	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C634	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C635	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C636	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C637	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C638	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C639	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C640	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C642	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C643	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C644	1-126-398-11	ELECT CHIP	4.7UF	20.00%	35V
C645	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V

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REF NO.	PART NO.	DESCRIPTION	REMARK
		<CONNECTOR>	
CN502	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
		<DIODE>	
D501	8-719-056-77	UDZ-TE-17-3.9B	
D601	8-719-404-50	MA111-TX	
		<FERRITE BEAD>	
FB501	1-414-813-11	FERRITE 0UH	
FB502	1-414-813-11	FERRITE 0UH	
FB503	1-414-813-11	FERRITE 0UH	
FB504	1-414-813-11	FERRITE 0UH	
FB601	1-414-553-11	FERRITE 0UH	
		<FILTER>	
FL501	1-233-877-11	FILTER, LOW PASS	
FL502	1-233-504-21	FILTER, LOW PASS	
FL503	1-233-504-21	FILTER, LOW PASS	
FL504	1-234-177-21	FILTER, CHIP EMI	
FL505	1-234-177-21	FILTER, CHIP EMI	
FL506	1-234-177-21	FILTER, CHIP EMI	
FL510	1-234-177-21	FILTER, CHIP EMI	
FL511	1-234-177-21	FILTER, CHIP EMI	
FL512	1-234-177-21	FILTER, CHIP EMI	
FL601	1-234-177-21	FILTER, CHIP EMI	
FL602	1-234-177-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FILTER, CHIP EMI	
FL901	1-234-113-21	FILTER, LOW PASS	
FL902	1-234-112-21	FILTER, LOW PASS	
FL903	1-234-112-21	FILTER, LOW PASS	
		<IC>	
IC501	8-759-447-90	TLC5733AIPM	
IC504	8-759-669-78	TLC2933IPWR-12	
IC505	8-759-547-54	TC7SET00FU(TE85	
IC506	8-759-547-54	TC7SET00FU(TE85	
IC601	8-752-409-78	IC CXD2095AQ	
IC602	8-759-573-19	MSM56V16160D-10	
IC603	8-759-669-75	TLC2932IPWR	
IC604	8-752-072-94	CXA1875AM-T4	
IC605	8-749-015-18	PQ07VZ012P	
		<CHIP CONDUCTOR>	
JR602	1-216-295-91	SHORT 0	
		<COIL>	
L503	1-412-026-11	INDUCTOR 1UH	
L505	1-412-029-11	INDUCTOR 10UH	
L506	1-412-026-11	INDUCTOR 1UH	
L508	1-412-029-11	INDUCTOR 10UH	
L509	1-412-029-11	INDUCTOR 10UH	
L512	1-412-026-11	INDUCTOR 1UH	
L604	1-412-029-11	INDUCTOR 10UH	
L605	1-412-029-11	INDUCTOR 10UH	

REF NO.	PART NO.	DESCRIPTION			REMARK
		<TRANSISTOR>			
Q501	8-729-216-22	2SA1162-G			
Q502	8-729-120-28	2SC1623-L5L6			
Q503	8-729-120-28	2SC1623-L5L6			
Q516	8-729-120-28	2SC1623-L5L6			
Q517	8-729-120-28	2SC1623-L5L6			
Q518	8-729-216-22	2SA1162-G			
Q521	8-729-120-28	2SC1623-L5L6			
Q522	8-729-120-28	2SC1623-L5L6			
Q523	8-729-120-28	2SC1623-L5L6			
Q601	8-729-120-28	2SC1623-L5L6			
Q602	8-729-120-28	2SC1623-L5L6			
Q901	8-729-216-22	2SA1162-G			
Q902	8-729-216-22	2SA1162-G			
Q903	8-729-216-22	2SA1162-G			
Q907	8-729-216-22	2SA1162-G			
Q908	8-729-216-22	2SA1162-G			
Q909	8-729-216-22	2SA1162-G			
		<RESISTOR>			
R501	1-216-025-11	RES-CHIP	100	5%	1/10W
R502	1-216-025-11	RES-CHIP	100	5%	1/10W
R503	1-216-295-91	SHORT	0		
R504	1-216-295-91	SHORT	0		
R505	1-216-295-91	SHORT	0		
R506	1-216-025-11	RES-CHIP	100	5%	1/10W
R507	1-216-025-11	RES-CHIP	100	5%	1/10W
R513	1-216-043-91	RES-CHIP	560	5%	1/10W
R514	1-216-043-91	RES-CHIP	560	5%	1/10W
R515	1-216-043-91	RES-CHIP	560	5%	1/10W
R516	1-216-049-11	RES-CHIP	1K	5%	1/10W
R517	1-216-049-11	RES-CHIP	1K	5%	1/10W
R518	1-216-295-91	SHORT	0		
R520	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R521	1-216-295-91	SHORT	0		
R523	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R524	1-216-295-91	SHORT	0		
R526	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R528	1-216-037-00	RES-CHIP	330	5%	1/10W
R529	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R530	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-031-00	RES-CHIP	180	5%	1/10W
R532	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-031-00	RES-CHIP	180	5%	1/10W
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-049-11	RES-CHIP	1K	5%	1/10W
R558	1-216-025-11	RES-CHIP	100	5%	1/10W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-043-91	RES-CHIP	560	5%	1/10W
R562	1-216-043-91	RES-CHIP	560	5%	1/10W
R563	1-216-043-91	RES-CHIP	560	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R571	1-216-295-91	SHORT	0		
R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R573	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R574	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-077-91	RES-CHIP	15K	5%	1/10W
R580	1-216-295-91	SHORT	0		
R598	1-216-025-11	RES-CHIP	100	5%	1/10W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R604	1-216-033-00	RES-CHIP	220	5%	1/10W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R609	1-216-073-91	RES-CHIP	10K	5%	1/10W
R610	1-216-033-00	RES-CHIP	220	5%	1/10W
R611	1-216-073-91	RES-CHIP	10K	5%	1/10W
R612	1-216-073-91	RES-CHIP	10K	5%	1/10W
R613	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R614	1-216-295-91	SHORT	0		
R615	1-216-089-91	RES-CHIP	47K	5%	1/10W
R616	1-216-073-91	RES-CHIP	10K	5%	1/10W
R617	1-216-295-91	SHORT	0		
R619	1-216-073-91	RES-CHIP	10K	5%	1/10W
R621	1-216-295-91	SHORT	0		
R622	1-216-295-91	SHORT	0		
R623	1-216-295-91	SHORT	0		
R624	1-216-295-91	SHORT	0		
R626	1-216-073-91	RES-CHIP	10K	5%	1/10W
R628	1-216-295-91	SHORT	0		
R629	1-216-073-91	RES-CHIP	10K	5%	1/10W
R631	1-216-295-91	SHORT	0		
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-017-91	RES-CHIP	47	5%	1/10W
R640	1-216-009-91	RES-CHIP	22	5%	1/10W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R647	1-216-295-91	SHORT	0		
R648	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R650	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R651	1-216-295-91	SHORT	0		
R653	1-216-025-11	RES-CHIP	100	5%	1/10W
R654	1-216-033-00	RES-CHIP	220	5%	1/10W
R655	1-216-295-91	SHORT	0		
R657	1-216-009-91	RES-CHIP	22	5%	1/10W
R658	1-216-049-11	RES-CHIP	1K	5%	1/10W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R664	1-216-295-91	SHORT	0		
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-017-91	RES-CHIP	47	5%	1/10W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R670	1-216-295-91	SHORT	0		
R671	1-216-073-91	RES-CHIP	10K	5%	1/10W
R672	1-216-073-91	RES-CHIP	10K	5%	1/10W
R673	1-216-073-91	RES-CHIP	10K	5%	1/10W
R674	1-216-073-91	RES-CHIP	10K	5%	1/10W
R675	1-216-073-91	RES-CHIP	10K	5%	1/10W
R676	1-216-073-91	RES-CHIP	10K	5%	1/10W
R677	1-216-073-91	RES-CHIP	10K	5%	1/10W
R678	1-216-073-91	RES-CHIP	10K	5%	1/10W
R679	1-216-073-91	RES-CHIP	10K	5%	1/10W
R680	1-216-073-91	RES-CHIP	10K	5%	1/10W
R681	1-216-073-91	RES-CHIP	10K	5%	1/10W
R682	1-216-073-91	RES-CHIP	10K	5%	1/10W
R683	1-216-073-91	RES-CHIP	10K	5%	1/10W
R684	1-216-073-91	RES-CHIP	10K	5%	1/10W
R685	1-216-073-91	RES-CHIP	10K	5%	1/10W
R686	1-216-073-91	RES-CHIP	10K	5%	1/10W
R687	1-216-295-91	SHORT	0		
R688	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R689	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R690	1-216-295-91	SHORT	0		
R691	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R692	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-047-91	RES-CHIP	820	5%	1/10W
R696	1-216-049-11	RES-CHIP	1K	5%	1/10W
R697	1-216-117-00	RES-CHIP	680K	5%	1/10W
R698	1-216-117-00	RES-CHIP	680K	5%	1/10W
R699	1-216-295-91	SHORT	0		
R907	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R908	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R909	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R910	1-216-049-11	RES-CHIP	1K	5%	1/10W
R911	1-216-049-11	RES-CHIP	1K	5%	1/10W
R912	1-216-049-11	RES-CHIP	1K	5%	1/10W
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R957	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R958	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R959	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R960	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R961	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R962	1-216-635-11	METAL CHIP	220	0.5%	1/10W
R981	1-216-037-00	RES-CHIP	330	5%	1/10W
R982	1-216-037-00	RES-CHIP	330	5%	1/10W
R983	1-216-089-91	RES-CHIP	47K	5%	1/10W
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R985	1-216-113-00	RES-CHIP	470K	5%	1/10W
R986	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R987	1-216-049-11	RES-CHIP	1K	5%	1/10W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-081-00	RES-CHIP	22K	5%	1/10W
R990	1-216-113-00	RES-CHIP	470K	5%	1/10W
R991	1-216-295-91	SHORT	0		
R993	1-216-089-91	RES-CHIP	47K	5%	1/10W
RB019	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB020	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB021	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB022	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB023	1-239-409-11	NETWORK RESISTOR (CHIP) 47			

B3 BC BC4

REF NO.	PART NO.	DESCRIPTION			REMARK
RB024	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB025	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB026	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
RB027	1-239-409-11	NETWORK RESISTOR (CHIP) 47			
**********					
	* A-1136-245-A	BC BOARD COMPLETE			
		**********			
		<CAPACITOR>			
C8129	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V
		<TRANSISTOR>			
Q8105	8-729-216-22	2SA1162-G			
Q8105	8-729-216-22	2SA1162-G			
Q8107	8-729-230-49	2SC2712-YG			
		<RESISTOR>			
R8163	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8169	1-216-041-00	RES-CHIP	470	5%	1/10W
R8174	1-216-039-00	RES-CHIP	390	5%	1/10W
R8175	1-216-041-00	RES-CHIP	470	5%	1/10W
R8187	1-216-295-91	SHORT	0		
R8188	1-216-041-00	RES-CHIP	470	5%	1/10W
R8189	1-216-041-00	RES-CHIP	470	5%	1/10W
R8190	1-216-041-00	RES-CHIP	470	5%	1/10W
**********					
	* A-1136-246-A	BC4 BOARD COMPLETE			
		**********			
		<CAPACITOR>			
C2003	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2005	1-163-131-00	CERAMIC CHIP	390PF	5.00%	50V
C2006	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2010	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2011	1-163-102-00	CERAMIC CHIP	24PF	5.00%	50V
C2015	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2016	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2017	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2018	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2021	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2024	1-216-295-91	SHORT	0		
C2029	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2030	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2031	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2032	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2033	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2034	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2035	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2036	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2037	1-126-947-11	ELECT	47UF	20.00%	16V

REF NO.	PART NO.	DESCRIPTION			REMARK
C2038	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2039	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2040	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2041	1-126-924-11	ELECT	330UF	20.00%	6.3V
C2042	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2044	1-126-947-11	ELECT	47UF	20.00%	16V
C2045	1-163-106-00	CERAMIC CHIP	36PF	5.00%	50V
C2046	1-126-964-11	ELECT	10UF	20.00%	50V
C2047	1-164-505-11	CERAMIC CHIP	2.2UF		16V
C2048	1-126-964-11	ELECT	10UF	20.00%	50V
C2049	1-126-960-11	ELECT	1UF	20.00%	50V
C2050	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2051	1-126-964-11	ELECT	10UF	20.00%	50V
C2052	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C2053	1-126-960-11	ELECT	1UF	20.00%	50V
C2054	1-126-947-11	ELECT	47UF	20.00%	16V
C2055	1-126-947-11	ELECT	47UF	20.00%	16V
C2056	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2057	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2058	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2059	1-126-947-11	ELECT	47UF	20.00%	16V
C2060	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2061	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2062	1-126-947-11	ELECT	47UF	20.00%	16V
C2063	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2064	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2065	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2066	1-126-947-11	ELECT	47UF	20.00%	16V
C2067	1-126-947-11	ELECT	47UF	20.00%	16V
C2068	1-126-947-11	ELECT	47UF	20.00%	16V
C2069	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2070	1-126-947-11	ELECT	47UF	20.00%	16V
C2071	1-165-319-11	CERAMIC CHIP	0.1UF		50V
C2072	1-163-237-11	CERAMIC CHIP	27PF	5.00%	50V
C2074	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2075	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C2078	1-126-947-11	ELECT	47UF	20.00%	16V
C2079	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2080	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C2095	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2096	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
C2097	1-163-231-11	CERAMIC CHIP	15PF	5.00%	50V
		<CONNECTOR>			
CN2001	* 1-793-685-11	PIN, CONNECTOR (PC BOARD) 15P			
		<FERRITE BEAD>			
FB2002	1-414-234-22	FERRITE	0UH		
FB2008	1-414-234-22	FERRITE	0UH		
FB2009	1-414-234-22	FERRITE	0UH		
FB2010	1-414-234-22	FERRITE	0UH		
FB2011	1-414-234-22	FERRITE	0UH		
FB2012	1-414-234-22	FERRITE	0UH		
FB2014	1-414-234-22	FERRITE	0UH		
FB2015	1-414-234-22	FERRITE	0UH		
FB2016	1-414-234-22	FERRITE	0UH		
FB2017	1-414-234-22	FERRITE	0UH		

BC4

REF NO.	PART NO.	DESCRIPTION			REMARK
		<FILTER>			
FL2001	1-239-848-11	FILTER, LOW PASS			
FL2002	1-239-848-11	FILTER, LOW PASS			
FL2003	1-239-848-11	FILTER, LOW PASS			
FL2004	1-239-848-11	FILTER, LOW PASS			
FL2005	1-233-736-21	FILTER, EMI			
FL2006	1-233-736-21	FILTER, EMI			
FL2007	1-233-736-21	FILTER, EMI			
		<IC>			
IC2003	8-759-568-27	MSM514265C-60JS			
IC2004	8-759-594-44	UPD64082GF-3BA			
IC2005	8-759-431-14	PQ3TZ53U			
		<COIL>			
L2001	1-410-200-31	INDUCTOR	4.7UH		
L2004	1-412-058-11	INDUCTOR	10UH		
L2005	1-412-058-11	INDUCTOR	10UH		
L2006	1-412-058-11	INDUCTOR	10UH		
L2007	1-412-058-11	INDUCTOR	10UH		
L2008	1-412-058-11	INDUCTOR	10UH		
		<TRANSISTOR>			
Q2002	8-729-216-22	2SA1162-G			
Q2003	8-729-216-22	2SA1162-G			
Q2004	8-729-216-22	2SA1162-G			
Q2005	8-729-422-33	2SD601A-Q-TX			
Q2006	8-729-422-33	2SD601A-Q-TX			
Q2007	8-729-422-33	2SD601A-Q-TX			
Q2008	8-729-422-33	2SD601A-Q-TX			
Q2009	8-729-422-33	2SD601A-Q-TX			
Q2010	8-729-422-33	2SD601A-Q-TX			
Q2011	8-729-422-33	2SD601A-Q-TX			
Q2012	8-729-216-22	2SA1162-G			
Q2013	8-729-216-22	2SA1162-G			
Q2014	8-729-422-33	2SD601A-Q-TX			
Q2015	8-729-422-33	2SD601A-Q-TX			
Q2016	8-729-422-33	2SD601A-Q-TX			
Q2018	8-729-216-22	2SA1162-G			
Q2019	8-729-422-33	2SD601A-Q-TX			
		<RESISTOR>			
R2001	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2011	1-216-041-00	RES-CHIP	470	5%	1/10W
R2015	1-216-041-00	RES-CHIP	470	5%	1/10W
R2019	1-216-295-91	SHORT	0		
R2021	1-216-025-11	RES-CHIP	100	5%	1/10W
R2027	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2028	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W
R2031	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2033	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

REF NO.	PART NO.	DESCRIPTION			REMARK
R2035	1-216-043-91	RES-CHIP	560	5%	1/10W
R2036	1-208-780-11	METAL CHIP	820	0.5%	1/10W
R2037	1-216-044-00	RES-CHIP	620	5%	1/10W
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2044	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2047	1-216-085-91	RES-CHIP	33K	5%	1/10W
R2048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2049	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2052	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2053	1-216-041-00	RES-CHIP	470	5%	1/10W
R2054	1-216-041-00	RES-CHIP	470	5%	1/10W
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W
R2056	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2057	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2058	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2059	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2060	1-216-025-11	RES-CHIP	100	5%	1/10W
R2061	1-216-043-91	RES-CHIP	560	5%	1/10W
R2062	1-216-105-91	RES-CHIP	220K	5%	1/10W
R2063	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2064	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2066	1-216-033-00	RES-CHIP	220	5%	1/10W
R2067	1-216-043-91	RES-CHIP	560	5%	1/10W
R2069	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R2070	1-208-772-11	METAL CHIP	390	0.5%	1/10W
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2074	1-216-025-11	RES-CHIP	100	5%	1/10W
R2075	1-216-295-91	SHORT	0		
R2076	1-216-025-11	RES-CHIP	100	5%	1/10W
R2077	1-216-025-11	RES-CHIP	100	5%	1/10W
R2078	1-216-295-91	SHORT	0		
R2092	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2093	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R2104	1-216-295-91	SHORT	0		
R2105	1-216-295-91	SHORT	0		
R2106	1-216-295-91	SHORT	0		
R2107	1-216-295-91	SHORT	0		
R2108	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2110	1-216-295-91	SHORT	0		
R2112	1-216-295-91	SHORT	0		
R2113	1-216-017-91	RES-CHIP	47	5%	1/10W
R2115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-296-11	SHORT	0		
R2119	1-216-296-11	SHORT	0		
R2200	1-216-296-11	SHORT	0		
		<VARIABLE RESISTOR>			
RV2001	1-223-271-21	RES, ADJ, CERMET 220			

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

BC4 C

REF NO.	PART NO.	DESCRIPTION			REMARK
		<CRYSTAL>			
X2001	1-767-606-11	VIBRATOR, CRYSTAL			
**********					
	* A-1332-223-A	C BOARD MOUNTED (KV-EX29K94)			
	* A-1332-236-A	C BOARD MOUNTED (KV-EX34K94)			
		**********			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		<CAPACITOR>			
C9002	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9003	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9004	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C9005	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9006	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9007	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9008	1-163-091-00	CERAMIC CHIP	8PF	0.25PF	50V
C9009	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9010	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9011	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9012	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9014	1-136-207-11	MYLAR	0.047UF	10.00%	250V
C9015	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C9016	1-102-106-00	CERAMIC (KV-EX29K94)	100PF	10.00%	50V
C9016	1-102-110-00	CERAMIC (KV-EX34K94)	220PF	10.00%	50V
C9018	1-107-961-91	ELECT	10UF	20.00%	250V
C9019	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9020	1-107-961-91	ELECT	10UF	20.00%	250V
C9021	1-107-961-91	ELECT	10UF	20.00%	250V
C9022	1-101-004-00	CERAMIC	0.01UF		50V
C9023	1-101-004-00	CERAMIC	0.01UF		50V
C9024	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9025	1-104-653-11	ELECT	220UF	20.00%	16V
C9026	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9027	1-101-004-00	CERAMIC	0.01UF		50V
C9028	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9029	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9030	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C9031	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C9032	1-162-116-00	CERAMIC	680PF	10.00%	2KV
C9033	1-107-662-11	ELECT	22UF	20.00%	250V
C9035	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C9042	1-126-940-11	ELECT	330UF	20.00%	25V
C9047	1-107-651-11	ELECT	4.7UF	20.00%	250V
		<CONNECTOR>			
CN9001	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN9002	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CN9003	1-695-915-11	TAB (CONTACT)			
CN9004	1-695-915-11	TAB (CONTACT)			
CN9007	1-785-879-11	CONNECTOR, ONE TOUCH			

REF NO.	PART NO.	DESCRIPTION			REMARK
		<DIODE>			
D9002	8-719-400-75	MA3091			
D9005	8-719-404-50	MA111-TX			
D9006	8-719-051-85	HSS83TD			
D9007	8-719-051-85	HSS83TD			
D9008	8-719-051-85	HSS83TD			
D9009	8-719-908-03	GP08D			
D9010	8-719-110-17	RD10ESB2			
D9011	1-216-295-91	SHORT	0		
D9012	1-216-295-91	SHORT	0		
D9013	1-216-295-91	SHORT	0 (KV-EX29K94)		
D9013	8-719-404-50	MA111-TX (KV-EX34K94)			
		<IC>			
IC9001	8-759-360-83	TDA6111Q/N4			
IC9002	8-759-360-83	TDA6111Q/N4			
IC9003	8-759-360-83	TDA6111Q/N4			
		<JACK>			
J9001	⚠ 1-540-071-22	SOCKET, CRT			
		<COIL>			
L9001	1-414-158-11	INDUCTOR	2.2UH		
L9002	1-414-855-31	INDUCTOR	1UH		
L9003	1-414-855-31	INDUCTOR	1UH		
L9004	1-414-855-31	INDUCTOR	1UH		
L9005	1-406-666-21	INDUCTOR	150UH		
L9006	1-412-526-11	INDUCTOR	12UH		
		<NEON LAMP>			
NL9001	1-519-526-11	LAMP, NEON			
NL9003	1-519-526-11	LAMP, NEON			
		<TRANSISTOR>			
Q9001	8-729-026-49	2SA1037AK-T146-R			
Q9009	8-729-026-49	2SA1037AK-T146-R			
Q9010	8-729-026-49	2SA1037AK-T146-R			
Q9011	8-729-026-49	2SA1037AK-T146-R			
		<RESISTOR>			
R9001	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9004	1-216-117-00	RES-CHIP (KV-EX34K94 ONLY)	680K	5%	1/10W
R9006	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9007	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9008	1-216-085-91	RES-CHIP	33K	5%	1/10W
R9012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9018	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9019	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9021	1-216-295-91	SHORT	0		
R9023	1-216-295-91	SHORT	0		
R9026	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9031	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R9033	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R9034	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R9035	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9037	1-240-233-71	METAL OXIDE	100	5%	3W
R9038	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9039	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R9041	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9042	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9043	1-240-233-71	METAL OXIDE	100	5%	3W
R9044	1-240-233-71	METAL OXIDE	100	5%	3W
R9047	1-219-744-11	CARBON	220	5%	1/2W
R9048	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9049	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9050	1-249-424-11	CARBON	3.9K	5%	1/4W
R9051	1-219-744-11	CARBON	220	5%	1/2W
R9052	1-219-744-11	CARBON	220	5%	1/2W
R9053	1-249-424-11	CARBON	3.9K	5%	1/4W
R9054	1-249-424-11	CARBON	3.9K	5%	1/4W
R9055	1-243-994-91	CEMENTED	820K	5%	0.5W
R9056	1-219-750-91	CARBON	22K	5%	1/2W
R9057	1-220-827-91	RESISTOR	560K	5%	1/2W
R9058	1-243-994-91	CEMENTED	820K	5%	0.5W
R9059	1-219-746-11	CARBON	1K	5%	1/2W
R9061	1-219-743-11	CARBON	100	5%	1/2W
R9065	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R9068	1-216-101-00	RES-CHIP	150K	5%	1/10W
R9069	1-219-743-11	CARBON	100	5%	1/2W
R9070	1-216-037-00	RES-CHIP	330	5%	1/10W
R9071	1-216-037-00	RES-CHIP	330	5%	1/10W
R9072	1-216-037-00	RES-CHIP	330	5%	1/10W
R9073	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

<VARIABLE RESISTOR>

RV9001	1-241-656-11	RES, ADJ, METAL FILM 110M
RV9002	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M

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	A-1346-975-A	D BOARD COMPLETE (KV-EX29K94)
	A-1348-019-A	D BOARD COMPLETE (KV-EX34K94)
		**********
*	4-363-146-00	HEAT SINK, V.OUT
*	4-374-846-01	COVER, CAPACITOR, CAP TYPE
	4-382-854-11	SCREW (M3X10), P, SW (+)
	4-382-854-21	SCREW (M3X14), P, SW (+)

<CAPACITOR>

C6100	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6101	1-107-680-91	ELECT	22UF	20.00%	450V
C6102	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6103	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6104	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6105	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6106	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C6107	1-137-605-11	MYLAR	0.01UF	10.00%	250V
C6108	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6109	1-126-971-11	ELECT	470UF	20.00%	50V
C6110	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6111	1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6113	1-126-965-91	ELECT	22UF	20.00%	50V

REF NO.		PART NO.	DESCRIPTION		REMARK	
C6334		1-126-940-11	ELECT	330UF	20.00%	25V
C6600		1-128-550-11	ELECT	2200UF	20.00%	50V
C6601		1-126-967-11	ELECT	47UF	20.00%	50V
C6602		1-129-720-00	FILM	0.033UF	5.00%	630V
C6603		1-126-949-11	ELECT	220UF	20.00%	35V
C6604		1-126-967-11	ELECT	47UF	20.00%	50V
C6606		1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6607	⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6608	⚠	1-119-886-51	CERAMIC	470PF	10.00%	250V
C6609		1-126-960-11	ELECT	1UF	20.00%	50V
C6610		1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6611		1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6612		1-126-964-11	ELECT	10UF	20.00%	50V
C6613		1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6614		1-161-830-00	CERAMIC	0.0047UF		500V
C6615		1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6616		1-126-961-11	ELECT	2.2UF	20.00%	50V
C6617		1-161-830-00	CERAMIC	0.0047UF		500V
C6618		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6619		1-161-830-00	CERAMIC	0.0047UF	99%	500V
C6620		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6621		1-131-940-11	ELECT	1200UF	20%	250V
C6622		1-131-940-11	ELECT	1200UF	20%	250V
C6624		1-126-962-11	ELECT	3.3UF	20.00%	50V
C6633		1-136-479-11	FILM	0.001UF	2.00%	50V
C6634		1-126-964-11	ELECT	10UF	20.00%	50V
C6635		1-126-963-11	ELECT	4.7UF	20.00%	50V
C6637		1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6645		1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6647		1-126-964-11	ELECT	10UF	20.00%	50V
C6648		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6649		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6650		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6651		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6652		1-110-626-11	ELECT	330UF	20.00%	160V
C6653		1-137-368-11	MYLAR	0.0047UF	5.00%	50V
C6654		1-126-936-11	ELECT	3300UF	20.00%	16V
C6655		1-126-936-11	ELECT	3300UF	20.00%	16V
C6656		1-136-165-00	FILM	0.1UF	5.00%	50V
C6658		1-104-330-91	CERAMIC	470PF	10.00%	1KV
C6660		1-126-960-11	ELECT	1UF	20.00%	50V
C6661		1-126-947-11	ELECT	47UF	20.00%	16V
C6662		1-126-947-11	ELECT	47UF	20.00%	16V
C6665		1-126-964-11	ELECT	10UF	20.00%	50V
C6666		1-137-150-11	MYLAR	0.01UF	5.00%	50V
C6668		1-126-947-11	ELECT	47UF	20.00%	25V
C6669		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6670		1-125-969-91	CERAMIC	680PF	10.00%	1KV
C6672		1-135-946-21	FILM	47000PF	3%	800V
C6673		1-136-189-00	MYLAR	0.1UF	10.00%	250V
C6674		1-128-527-11	ELECT	330UF	20.00%	25V
C6679		1-107-823-11	CERAMIC CHIP	0.47UF	10.00%	16V
C6800		1-126-964-11	ELECT	10UF	20.00%	50V
C6801		1-126-960-11	ELECT	1UF	20.00%	50V
C6802		1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6805		1-111-087-11	ELECT	330UF	20.00%	25V
C6806		1-107-933-11	ELECT	100UF	20.00%	100V
C6808		1-137-401-11	MYLAR	0.22UF	10.00%	100V
C6809		1-102-074-00	CERAMIC	0.001UF	10.00%	50V
C6810		1-106-220-00	MYLAR	0.1UF	10.00%	100V
C6811		1-111-087-11	ELECT	330UF	20.00%	25V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C6813	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6814	1-125-889-91	CERAMIC CHIP	2.2UF	10%	10V
C6815	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6816	1-136-060-00	FILM (KV-EX29K94)	0.047UF	5.00%	400V
C6816	1-137-577-11	FILM (KV-EX34K94)	0.068UF	5.00%	400V
C6817	1-126-967-11	ELECT	47UF	20.00%	50V
C6818	1-126-960-11	ELECT	1UF	20.00%	50V
C6819	1-126-960-11	ELECT	1UF	20.00%	50V
C6820	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6821	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6822	1-102-114-00	CERAMIC	470PF	10.00%	50V
C6823	1-106-383-00	MYLAR	0.047UF	10.00%	200V
C6826	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6827	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6828	1-104-987-11	MYLAR (KV-EX29K94)	0.001UF	10.00%	200V
C6828	1-107-364-11	MYLAR (KV-EX34K94)	0.01UF	10.00%	200V
C6829	1-107-444-11	CERAMIC (KV-EX29K94)	100PF	10.00%	2KV
C6829	1-162-115-00	CERAMIC (KV-EX34K94)	330PF	10.00%	2KV
C6830	1-117-619-11	FILM (KV-EX34K94)	1000PF	3.00%	1.2KV
C6831	1-117-835-11	FILM (KV-EX29K94)	6200PF	3.00%	1.5KV
C6831	1-117-838-11	FILM (KV-EX34K94)	8200PF	3.00%	1.5KV
C6832	1-117-836-11	FILM (KV-EX29K94)	6800PF	3.00%	1.5KV
C6832	1-117-842-11	FILM (KV-EX34K94)	12000PF	3.00%	1.5KV
C6833	1-127-680-11	FILM MELF	4700PF	2%	100V
C6834	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6835	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6836	1-127-681-11	FILM MELF	10000PF	2%	100V
C6837	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6838	1-125-893-11	FILM	680PF	3.00%	1.5KV
C6839	1-126-933-11	ELECT	100UF	20.00%	16V
C6840	1-126-933-11	ELECT	100UF	20.00%	16V
C6841	1-115-511-11	FILM	0.12UF	5.00%	250V
C6842	1-117-667-71	FILM (KV-EX29K94)	0.47UF	5.00%	250V
C6842	1-117-673-11	FILM (KV-EX34K94)	1.5UF	5.00%	250V
C6843	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6844	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6845	1-115-514-11	FILM (KV-EX29K94)	0.22UF	5.00%	250V
C6845	1-117-664-11	FILM (KV-EX34K94)	0.27UF	5.00%	250V
C6846	1-109-945-11	FILM (KV-EX29K94)	0.18UF	5.00%	250V
C6846	1-115-514-11	FILM (KV-EX34K94)	0.22UF	5.00%	250V
C6847	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6848	1-113-979-51	FILM	0.047UF	5%	250V
C6849	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6850	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V
C6851	1-107-639-11	ELECT	47UF	20.00%	160V
C6853	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6854	1-126-941-11	ELECT	470UF	20.00%	25V
C6855	1-123-024-21	ELECT	33UF		160V
C6856	1-126-971-11	ELECT	470UF	20.00%	50V
C6857	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6858	1-102-228-00	CERAMIC	470PF	10.00%	500V
C6859	1-162-129-00	CERAMIC	150PF	10.00%	2KV
C6860	1-162-131-11	CERAMIC (KV-EX29K94)	220PF	10.00%	2KV
C6860	1-162-129-00	CERAMIC (KV-EX34K94)	150PF	10.00%	2KV
C6862	1-130-202-00	FILM	0.022UF	5.00%	200V
C6863	1-107-906-11	ELECT	10UF	20.00%	50V
C6864	1-129-898-00	FILM	0.0022UF	5.00%	630V
C6865	1-130-202-00	FILM	0.022UF	5.00%	400V
C6866	1-102-030-00	CERAMIC	330PF	10.00%	500V
C6867	1-130-785-11	MYLAR	0.47UF	10.00%	100V
C6868	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6869	1-107-882-91	ELECT (KV-EX34K94 ONLY)	100UF	20.00%	16V
C6870	1-128-528-11	ELECT (KV-EX34K94 ONLY)	470UF	20.00%	25V
C6871	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6872	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6874	1-136-165-00	FILM	0.1UF	5.00%	50V
C6875	1-126-947-11	ELECT	47UF	20.00%	16V
C6876	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6877	1-126-964-11	ELECT	10UF	20.00%	50V
C6878	1-126-320-11	ELECT	10UF	20.00%	16V
C6879	1-107-960-11	ELECT	4.7UF	20.00%	160V
C6880	1-164-004-11	CERAMIC CHIP (KV-EX29K94)	0.1UF	10.00%	25V
C6880	1-163-021-91	CERAMIC CHIP (KV-EX34K94)	0.01UF	10.00%	50V
C6882	1-104-574-11	CERAMIC	0.0047UF	10.00%	2KV
C6883	1-126-965-91	ELECT	22UF	20.00%	50V
C6884	1-125-889-91	CERAMIC CHIP	2.2UF	10%	10V
C6885	1-162-131-11	CERAMIC (KV-EX29K94 ONLY)	220PF	10.00%	2KV
C6886	1-102-114-00	CERAMIC (KV-EX34K94 ONLY)	470PF	10.00%	50V

<CONNECTOR>

CN6602*	⚠1-508-786-13	PIN, CONNECTOR (5MM PITCH) 2P
CN6603*	⚠1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P
CN6604	1-580-843-11	PIN, CONNECTOR (POWER)
CN6605 *	1-764-333-11	PLUG, CONNECTOR 10P
CN6606 *	1-764-333-11	PLUG, CONNECTOR 10P
CN6609 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6610 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6611 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6612 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6613 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6614 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6615 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6616 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6617	1-695-915-11	TAB (CONTACT)
CN6618 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P
CN6619	1-564-507-11	PLUG, CONNECTOR 4P
CN6800 *	1-764-333-11	PLUG, CONNECTOR 10P
CN6801*	⚠1-785-270-12	PIN, DY CONNECTOR (PC BOARD)
CN6802	1-783-967-11	CONNECTOR, BOARD TO BOARD 30P
CN6803 *	1-764-333-11	PLUG, CONNECTOR 10P

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REF NO.	PART NO.	DESCRIPTION	REMARK
CN6804⚠	1-691-765-11	PLUG (MICRO CONNECTOR) 3P (KV-EX29K94 ONLY)	
CN6805	1-695-915-11	TAB (CONTACT)	
CN6808	1-695-915-11	TAB (CONTACT)	
CN6809	1-695-915-11	TAB (CONTACT)	
CN6810	1-785-879-11	CONNECTOR, ONE TOUCH	
CN6811 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN6812 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN6819	1-783-967-11	CONNECTOR, BOARD TO BOARD 30P	
		<DIODE>	
D6100	8-719-077-76	D2SB60A-F04	
D6101	8-719-110-49	RD18ES-B2	
D6102	8-719-978-65	DTZ-TT11-15B	
D6103	8-719-404-50	MA111-TX	
D6104	8-719-510-48	D1N20R	
D6105	8-719-948-45	ERA22-08	
D6108	8-719-063-73	DIODE D1NL20U-TR	
D6323	8-719-032-12	D1NS6	
D6601	8-719-911-19	1SS119-25	
D6602	8-719-404-50	MA111-TX	
D6603	8-719-404-50	MA111-TX	
D6604	8-719-404-50	MA111-TX	
D6605	8-719-510-53	D4SB60L	
D6608	8-719-404-50	MA111-TX	
D6609	8-719-911-19	1SS119-25	
D6610	8-719-404-50	MA111-TX	
D6611	8-719-404-50	MA111-TX	
D6612	8-719-911-55	U05G	
D6613	8-719-911-55	U05G	
D6614	8-719-110-30	RD12ES-B1	
D6615	8-719-911-19	1SS119-25	
D6618	8-719-979-64	UF4005PKG23	
D6620	8-719-063-73	DIODE D1NL20U-TR	
D6623	8-719-911-19	1SS119-25	
D6631	8-719-050-18	D4SBL20U	
D6632	8-719-404-50	MA111-TX	
D6633	8-719-510-12	D10SC4M	
D6635	8-719-110-47	RD18ESB	
D6636	8-719-911-19	1SS119-25	
D6639	8-719-063-73	DIODE D1NL20U-TR	
D6640	8-719-110-72	RD30ESB2	
D6641	8-719-109-96	RD6.8ES-B1	
D6642	8-719-911-19	1SS119-25	
D6644	8-719-052-92	D10SBS4F	
D6648	8-719-110-30	RD12ES-B1	
D6654	8-719-052-92	D10SBS4F	
D6800	8-719-110-03	RD7.5ESB2	
D6801	8-719-911-19	1SS119-25	
D6803	8-719-510-73	S3L20UF4	
D6806	8-719-911-19	1SS119-25	
D6807	8-719-109-68	RD3.6ES-B1	
D6808	8-719-914-43	DAN202K	
D6809	8-719-908-03	GP08D	
D6812	8-719-110-39	RD15ES-B1	
D6813	8-719-302-43	EL1Z	
D6814	8-719-018-82	RGP02-20EL-6394	
D6816	8-719-510-73	S3L20UF4	
D6817	8-719-510-73	S3L20UF4	
D6820	8-719-970-87	ERA38-06	
D6821	8-719-970-87	ERA38-06	
D6822	8-719-067-18	RN4Z (KV-EX34K94 ONLY)	
D6823	8-719-911-19	1SS119-25	
D6824	8-719-510-73	S3L20UF4	
D6825	8-719-914-43	DAN202K	
D6826	8-719-911-19	1SS119-25	
D6830	8-719-914-43	DAN202K	
		<FERRITE BEAD>	
FB6602	1-239-358-21	FILTER, NOISE	
FB6603	1-239-358-21	FILTER, NOISE	
FB6604	1-410-396-41	FERRITE	0.45UH
FB6605	1-410-396-41	FERRITE	0.45UH
FB6606	1-410-397-21	FERRITE	1.1UH
		<IC>	
IC6600	8-759-670-30	MCZ3001D	
IC6601	8-759-198-31	UPC1093J-1-T	
IC6607	8-749-012-13	DM-58	
IC6608	8-759-133-90	UPC339C	
IC6800	8-759-192-71	STV9379	
IC6801	8-759-450-95	LM393N	
IC6804	8-759-394-36	BA09T	
IC6805	8-759-394-35	BA12T	
IC6806	8-749-013-76	PQ6RD83B (KV-EX34K94 ONLY)	
		<CHIP CONDUCTOR>	
JR6601	1-216-295-91	SHORT	0
JR6603	1-216-295-91	SHORT	0
JR6606	1-216-295-91	SHORT	0
JR6607	1-216-295-91	SHORT	0
JR6608	1-216-295-91	SHORT	0
JR6609	1-216-295-91	SHORT	0
JR6610	1-216-295-91	SHORT	0
JR6611	1-216-295-91	SHORT	0
JR6612	1-216-295-91	SHORT	0
JR6613	1-216-295-91	SHORT	0
JR6893	1-216-295-91	SHORT	0
		<COIL>	
L6600	1-410-396-41	FERRITE	0.45UH
L6604	1-412-525-31	INDUCTOR	10UH
L6605	1-412-525-31	INDUCTOR	10UH
L6606	1-412-525-31	INDUCTOR	10UH
L6607	1-412-519-11	INDUCTOR	3.3UH
L6608	1-412-525-31	INDUCTOR	10UH
L6609	1-410-396-41	FERRITE	0.45UH
L6800	1-412-525-31	INDUCTOR	10UH
L6801	1-406-675-11	INDUCTOR	4.7MH (KV-EX29K94)
L6801	1-406-986-21	INDUCTOR	3.3UH (KV-EX34K94)
L6802	1-416-775-21	INDUCTOR	1MH (KV-EX34K94 ONLY)
L6803	1-406-985-11	INDUCTOR	2.2MH (KV-EX29K94)
L6803	1-406-982-11	INDUCTOR	680UH (KV-EX34K94)
L6804	1-412-519-11	INDUCTOR	3.3UH
L6805	1-412-519-11	INDUCTOR	3.3UH
L6806	1-412-519-11	INDUCTOR	3.3UH
L6807	1-412-552-11	INDUCTOR	2.2MH
L6808	1-406-674-11	INDUCTOR	3.3MH

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REF NO.	PART NO.	DESCRIPTION	REMARK
		<PHOTO COUPLER>	
PH6601 ⚠	8-749-924-35	PHOTO COUPLER ON3171-R	
PH6602 ⚠	8-749-924-35	PHOTO COUPLER ON3171-R	
		<IC LINK>	
PS6605	1-533-597-41	LINK, IC	
PS6606	1-533-597-41	LINK, IC	
PS6801	1-532-841-21	LINK, IC	
		<TRANSISTOR>	
Q6100	8-729-046-40	2SK2663	
Q6102	8-729-023-22	2SD2114K	
Q6600	8-729-052-32	IRFIB7N50A	
Q6601	8-729-119-78	2SC2785-HFE	
Q6602	8-729-119-78	2SC2785-HFE	
Q6603	8-729-052-32	IRFIB7N50A	
Q6604	8-729-119-76	2SA1175-HFE	
Q6605	8-729-230-49	2SC2712-YG	
Q6608	8-729-200-21	2SC2500-B	
Q6609	8-729-029-56	DTA144ESA	
Q6610	8-729-119-78	2SC2785-HFE	
Q6611	8-729-029-66	DTC114ESA	
Q6613	8-729-030-02	DTC144ESA	
Q6614	8-729-119-76	2SA1175-HFE	
Q6619	8-729-119-78	2SC2785-HFE	
Q6620	8-729-119-78	2SC2785-HFE	
Q6800	8-729-422-33	2SD601A-Q-TX	
Q6802	8-729-046-33	IRF720-LF49 (KV-EX29K94)	
Q6802	8-729-025-19	IRFI740G (KV-EX34K94)	
Q6803	8-729-119-76	2SA1175-HFE	
Q6804	8-729-119-78	2SC2785-HFE	
Q6805	8-729-140-96	2SD774-34	
Q6806	8-729-140-96	2SD774-34	
Q6807	8-729-046-18	2SC5480-01	
Q6808	8-729-046-18	2SC5480-01	
Q6809	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
Q6810	8-729-047-60	IRFI830G-LF49	
Q6811	1-801-806-11	TR DTC144EKA	
Q6812	8-729-043-95	2SC3840(3)	
Q6813	8-729-422-33	2SD601A-Q-TX	
Q6814	8-729-026-49	2SA1037AK-T146-R	
Q6815	8-729-045-65	2SA1776TV2Q	
Q6816	8-729-140-96	2SD774-34	
Q6817	8-729-422-33	2SD601A-Q-TX	
Q6818	1-801-806-11	TR DTC144EKA	
Q6819	1-801-806-11	TR DTC144EKA	
Q6820	8-729-422-33	2SD601A-Q-TX	
Q6821	8-729-026-49	2SA1037AK-T146-R	
Q6822	8-729-026-49	2SA1037AK-T146-R	
Q6823	8-729-422-33	2SD601A-Q-TX	
		<RESISTOR>	
R6100	1-260-298-51	CARBON 3.3 5% 1/2W	
R6101	1-216-045-00	RES-CHIP 680 5% 1/10W	
R6102	1-249-389-11	CARBON 4.7 5% 1/4W	
R6103	1-216-009-91	RES-CHIP 22 5% 1/10W	
R6104	1-240-205-91	CARBON 22M 5% 1/2W	

REF NO.	PART NO.	DESCRIPTION		REMARK	
R6105	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6106	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6107	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6108	1-215-493-00	METAL	1M	1%	1/4W
R6110	1-249-413-11	CARBON	470	5%	1/4W
R6500	1-220-797-11	CEMENTED	0.47	5%	10W
R6600	1-216-295-91	SHORT	0		
R6602	1-249-417-11	CARBON	1K	5%	1/4W
R6603	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6604	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6605	1-215-471-00	METAL	120K	1%	1/4W
R6606	1-215-466-00	METAL	75K	1%	1/4W
R6607	1-215-489-00	METAL	680K	1%	1/4W
R6608	1-215-489-00	METAL	680K	1%	1/4W
R6609	1-215-489-00	METAL	680K	1%	1/4W
R6610	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6611	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6612	1-215-471-00	METAL	120K	1%	1/4W
R6613	1-215-489-00	METAL	680K	1%	1/4W
R6614	1-215-489-00	METAL	680K	1%	1/4W
R6615	1-215-489-00	METAL	680K	1%	1/4W
R6616	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6617	1-208-844-11	METAL CHIP	390K	0.5%	1/10W
R6618	1-215-466-00	METAL	75K	1%	1/4W
R6619	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6620	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R6621	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6622	1-220-797-11	CEMENTED	0.47	5%	10W
R6623	1-215-864-00	METAL OXIDE	150	5%	1W
R6624	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6625	1-215-864-00	METAL OXIDE	150	5%	1W
R6626	1-215-444-00	METAL	9.1K	1%	1/4W
R6627	1-215-481-00	METAL	330K	1%	1/4W
R6628	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6629	1-215-481-00	METAL	330K	1%	1/4W
R6630	1-215-481-00	METAL	330K	1%	1/4W
R6631	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6632	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6633	1-215-458-00	METAL	36K	1%	1/4W
R6634	1-215-489-00	METAL	680K	1%	1/4W
R6635	1-215-489-00	METAL	680K	1%	1/4W
R6636	1-215-489-00	METAL	680K	1%	1/4W
R6637	1-215-463-00	METAL	56K	1%	1/4W
R6638	1-240-876-11	CEMENTED	1	5%	15W
R6639	1-240-876-11	CEMENTED	1	5%	15W
R6640	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6641	1-260-131-11	CARBON	470K	5%	1/2W
R6642	1-260-131-11	CARBON	470K	5%	1/2W
R6643	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6644	1-249-417-11	CARBON	1K	5%	1/4W
R6645	1-220-886-11	FUSIBLE	0.1	10%	1W
R6647	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6648	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6649	1-249-425-11	CARBON	4.7K	5%	1/4W
R6651	1-217-157-00	METAL	0.33	10%	5W
R6654	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6655	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6658	1-249-393-11	CARBON	10	5%	1/4W
R6659	1-249-393-11	CARBON	10	5%	1/4W
R6660	1-216-073-91	RES-CHIP	10K	5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R6662	1-249-429-11	CARBON	10K	5%	1/4W
R6663	1-249-429-11	CARBON	10K	5%	1/4W
R6664	1-249-421-11	CARBON	2.2K	5%	1/4W
R6666	1-249-429-11	CARBON	10K	5%	1/4W
R6667	1-249-425-11	CARBON	4.7K	5%	1/4W
R6669	1-249-417-11	CARBON	1K	5%	1/4W
R6670	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6671	1-217-611-00	METAL	0.1	10%	2W
R6672	1-249-421-11	CARBON	2.2K	5%	1/4W
R6674	1-249-418-11	CARBON	1.2K	5%	1/4W
R6675	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R6679	1-249-437-11	CARBON	47K	5%	1/4W
R6680	1-216-362-11	METAL OXIDE	0.27	5%	2W
R6681	1-249-429-11	CARBON	10K	5%	1/4W
R6682	1-249-416-11	CARBON	820	5%	1/4W
R6683	1-260-127-11	CARBON	220K	5%	1/2W
R6685	1-249-421-11	CARBON	2.2K	5%	1/4W
R6686 ⚠	1-247-289-11	METAL	8.2M	5%	1W
R6688	1-249-417-11	CARBON	1K	5%	1/4W
R6689	1-249-389-11	CARBON	4.7	5%	1/4W
R6690	1-249-429-11	CARBON	10K	5%	1/4W
R6691	1-260-131-11	CARBON	470K	5%	1/2W
R6692	1-249-410-11	CARBON	270	5%	1/4W
R6693	1-215-451-00	METAL	18K	1%	1/4W
R6694	1-215-471-00	METAL	120K	1%	1/4W
R6696	1-215-925-11	METAL OXIDE	22K	5%	3W
R6699	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6701	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6702	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6704	1-249-377-11	CARBON	0.47	5%	1/4W
R6710	1-217-158-00	METAL	0.47	10%	5W
R6713	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6715	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6800	1-249-429-11	CARBON	10K	5%	1/4W
R6801	1-249-429-11	CARBON	10K	5%	1/4W
R6802	1-249-429-11	CARBON	10K	5%	1/4W
R6803	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6804	1-208-796-11	METAL CHIP (KV-EX29K94)	3.9K	0.5%	1/10W
R6804	1-208-794-11	METAL CHIP (KV-EX34K94)	3.3K	0.5%	1/10W
R6805	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R6806	1-208-796-11	METAL CHIP (KV-EX29K94)	3.9K	0.5%	1/10W
R6806	1-208-794-11	METAL CHIP (KV-EX34K94)	3.3K	0.5%	1/10W
R6807	1-249-383-11	CARBON	1.5	5%	1/4W
R6810	1-214-798-21	METAL	1.8	1%	1/2W
R6811	1-215-913-11	METAL OXIDE	220	5%	3W
R6813	1-214-798-21	METAL	1.8	1%	1/2W
R6814	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6815	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R6816	1-214-915-00	METAL	120K	1%	1/2W
R6818	1-215-485-00	METAL	470K	1%	1/4W
R6819	1-249-421-11	CARBON	2.2K	5%	1/4W
R6820	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6822	1-216-461-00	METAL OXIDE	5.6K	5%	2W
R6823	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R6824	1-249-408-11	CARBON	180	5%	1/4W
R6825	1-249-408-11	CARBON	180	5%	1/4W
R6826	1-216-459-00	METAL OXIDE (KV-EX29K94)	2.7K	5%	2W

REF NO.	PART NO.	DESCRIPTION		REMARK	
R6826	1-215-894-11	METAL OXIDE (KV-EX34K94)	2.2K	5%	2W
R6827	1-215-895-11	METAL OXIDE (KV-EX29K94)	3.3K	5%	2W
R6827	1-216-459-00	METAL OXIDE (KV-EX34K94)	2.7K	5%	2W
R6828	1-249-411-11	CARBON	330	5%	1/4W
R6829	1-249-411-11	CARBON	330	5%	1/4W
R6830	1-247-764-11	CARBON	10K	5%	1/2W
R6831	1-247-764-11	CARBON	10K	5%	1/2W
R6832	1-215-477-00	METAL	220K	1%	1/4W
R6833	1-215-493-00	METAL	1M	1%	1/4W
R6834	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6835	1-216-381-11	METAL OXIDE	0.22	5%	3W
R6836	1-215-905-11	METAL OXIDE	10	5%	3W
R6837	1-215-905-11	METAL OXIDE	10	5%	3W
R6838	1-215-461-00	METAL	47K	1%	1/4W
R6839	1-249-405-11	CARBON	100	5%	1/4W
R6841	1-216-434-11	METAL OXIDE	1.8K	5%	1W
R6842	1-215-923-00	METAL OXIDE	10K	5%	3W
R6843	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6844	1-247-807-31	CARBON	100	5%	1/4W
R6845	1-208-836-11	METAL CHIP (KV-EX29K94)	180K	0.5%	1/10W
R6845	1-208-824-11	METAL CHIP (KV-EX34K94)	56K	0.5%	1/10W
R6846	1-260-127-11	CARBON	220K	5%	1/2W
R6847	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6848	1-216-101-00	RES-CHIP	150K	5%	1/10W
R6851	1-260-288-11	CARBON	0.47	5%	1/2W
R6852	1-216-345-11	METAL OXIDE	0.47	5%	1W
R6853	1-260-288-11	CARBON	0.47	5%	1/2W
R6854	1-215-923-00	METAL OXIDE	10K	5%	3W
R6855	1-214-899-81	METAL (KV-EX29K94)	27K	1%	1/2W
R6855	1-214-898-81	METAL (KV-EX34K94)	24K	1%	1/2W
R6856	1-215-923-00	METAL OXIDE	10K	5%	3W
R6857	1-215-923-00	METAL OXIDE	10K	5%	3W
R6858	1-214-899-81	METAL (KV-EX29K94)	27K	1%	1/2W
R6858	1-214-898-81	METAL (KV-EX34K94)	24K	1%	1/2W
R6859	1-215-871-11	METAL OXIDE	2.2K	5%	1W
R6860	1-215-923-00	METAL OXIDE	10K	5%	3W
R6861	1-216-295-91	SHORT	0		
R6862	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6863	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R6864	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6865	1-216-103-00	RES-CHIP (KV-EX29K94)	180K	5%	1/10W
R6865	1-216-101-00	RES-CHIP (KV-EX34K94)	150K	5%	1/10W
R6866	1-215-433-00	METAL (KV-EX29K94)	3.3K	1%	1/4W
R6866	1-215-431-00	METAL (KV-EX34K94)	2.7K	1%	1/4W
R6867	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6868	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6869	1-216-115-00	RES-CHIP (KV-EX29K94)	560K	5%	1/10W
R6869	1-216-113-00	RES-CHIP (KV-EX34K94)	470K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R6870	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6871	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6872	1-260-125-11	CARBON	150K	5%	1/2W
R6873	1-260-125-11	CARBON	150K	5%	1/2W
R6875	1-249-417-11	CARBON	1K	5%	1/4W
R6876	1-216-391-11	METAL OXIDE (KV-EX29K94)	1.5	5%	3W
R6876	1-260-288-11	CARBON (KV-EX34K94)	0.47	5%	1/2W
R6877	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R6878	1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6879	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6880	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R6881	1-215-453-00	METAL (KV-EX29K94)	22K	1%	1/4W
R6881	1-215-447-00	METAL (KV-EX34K94)	12K	1%	1/4W
R6882	1-215-456-00	METAL (KV-EX29K94)	30K	1%	1/4W
R6882	1-215-453-00	METAL (KV-EX34K94)	22K	1%	1/4W
R6883	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6884	1-249-441-11	CARBON	100K	5%	1/4W
R6885	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6886	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6887	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6888	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6889	1-260-125-11	CARBON	150K	5%	1/2W
R6890	1-260-125-11	CARBON	150K	5%	1/2W
R6891	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6892	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6893	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6894	1-260-133-11	CARBON	680K	5%	1/2W
R6895	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6896	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6897	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6899	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6900	1-208-810-11	METAL CHIP (KV-EX29K94)	15K	0.5%	1/10W
R6900	1-208-808-11	METAL CHIP (KV-EX34K94)	12K	0.5%	1/10W
R6901	1-208-810-11	METAL CHIP (KV-EX29K94)	15K	0.5%	1/10W
R6901	1-208-808-11	METAL CHIP (KV-EX34K94)	12K	0.5%	1/10W
R6902	1-249-441-11	CARBON	100K	5%	1/4W
R6903	1-215-923-00	METAL OXIDE	10K	5%	3W
R6905	1-249-389-11	CARBON	4.7	5%	1/4W
R6906	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6907	1-216-079-00	RES-CHIP	18K	5%	1/10W

<RELAY>

RY6601	⚠ 1-755-198-12	RELAY	
RY6602	⚠ 1-755-357-11	RELAY, AC POWER	
RY6603	⚠ 1-755-357-11	RELAY, AC POWER	

<TRANSFORMER>

T6100	⚠ 1-433-844-11	TRANSFORMER, CONVERTER	
T6602	⚠ 1-435-690-11	TRANSFORMER, CONVERTER (PIT)	
T6800	1-429-741-11	TRANSFORMER, DRIVE	
T6801	1-433-934-11	TRANSFORMER, FERRITE (DFT)	
T6802	1-433-489-11	TRANSFORMER, FERRITE (HDT)	
T6803	⚠ 1-453-363-11	TRANSFORMER ASSY FLYBACK (NX-4522//J1B4) (KV-EX29K94)	
T6803	⚠ 1-453-326-11	TRANSFORMER ASSY FLYBACK (NX-4601//J1B4) (KV-EX34K94)	
T6804	1-433-489-11	TRANSFORMER, FERRITE (HDT)	

<THERMISTOR>

TH6100	1-803-586-11	THERMISTOR, NTC
TH6601	1-803-540-11	THERMISTOR

<VARISTOR>

VD6601	1-803-614-11	VARISTOR
VD6603	1-803-830-11	VARISTOR (ERZV14D621)

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*	A-1343-928-A	D1 BOARD MOUNTED (KV-EX29K94)
*	A-1343-962-A	D1 BOARD MOUNTED (KV-EX34K94)
		**********
	4-382-854-11	SCREW (M3X10), P, SW (+)

<CAPACITOR>

C4800	1-136-165-00	FILM	0.1UF	5.00%	50V
C4801	1-136-161-00	FILM	0.047UF	5.00%	50V
C4802	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4803	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4804	1-126-967-11	ELECT	47UF	20.00%	50V
C4805	1-126-964-11	ELECT	10UF	20.00%	50V
C4806	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C4807	1-163-009-91	CERAMIC CHIP (KV-EX29K94)	0.001UF	10.00%	50V
C4807	1-164-182-11	CERAMIC CHIP (KV-EX34K94)	0.0033UF	10.00%	50V
C4808	1-136-165-00	FILM	0.1UF	5.00%	50V
C4809	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4810	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4811	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4812	1-126-967-11	ELECT	47UF	20.00%	50V
C4813	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4814	1-126-947-11	ELECT (KV-EX29K94)	47UF	20.00%	25V
C4814	1-124-589-11	ELECT (KV-EX34K94)	47UF	20.00%	16V
C4815	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C4816	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C4817	1-126-947-11	ELECT (KV-EX29K94)	47UF	20.00%	25V
C4817	1-124-589-11	ELECT (KV-EX34K94)	47UF	20.00%	16V
C4818	1-126-961-11	ELECT (KV-EX29K94)	2.2UF	20.00%	50V
C4818	1-126-964-11	ELECT (KV-EX34K94)	10UF	20.00%	50V
C4820	1-107-909-11	ELECT	47UF	20.00%	50V
C4821	1-107-909-11	ELECT	47UF	20.00%	16V
C4822	1-107-909-11	ELECT	47UF	20.00%	16V
C4823	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C4824	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V

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REF NO.	PART NO.	DESCRIPTION		REMARK	
C4825	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4833	1-126-964-11	ELECT	10UF	20.00%	50V
C4834	1-126-933-11	ELECT	100UF	20.00%	16V
C4835	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4850	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6101	1-107-714-11	ELECT	10UF	20.00%	50V
C6102	1-109-953-11	ELECT	2.2UF	20.00%	50V
C6103	1-107-714-11	ELECT	10UF	20.00%	50V
C6104	1-126-965-91	ELECT	22UF	20.00%	50V
C6105	1-126-933-11	ELECT	100UF	20.00%	16V
C6108	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6109	1-126-947-11	ELECT	47UF	20.00%	25V
C6112	1-163-037-11	CERAMIC CHIP	0.022UF	10.00%	50V
C6113	1-136-347-11	FILM	0.0047UF	5.00%	630V
C6114	1-126-947-11	ELECT	47UF	20.00%	25V
C6115	1-163-005-91	CERAMIC CHIP	470PF	10.00%	50V
C6116	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6117	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C6118	1-107-909-11	ELECT	47UF	20.00%	16V
C6120	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C6121	1-126-963-11	ELECT	4.7UF	20.00%	50V
C6122	1-126-947-11	ELECT	47UF	20.00%	25V
C6123	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6124	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6125	1-128-551-11	ELECT	22UF	20.00%	25V
C6127	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6128	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6129	1-126-964-11	ELECT	10UF	20.00%	50V
C6131	1-126-964-11	ELECT	10UF	20.00%	50V
C6133	1-137-194-81	FILM	0.47UF	5.00%	50V
C6136	1-129-716-00	FILM	0.015UF	5.00%	630V
C6138	1-126-968-11	ELECT	100UF	20.00%	50V
C6139	1-107-902-11	ELECT	1UF	20.00%	50V
C6140	1-126-960-11	ELECT	1UF	20.00%	50V
C6201	1-126-947-11	ELECT	47UF	20.00%	25V
C6202	1-126-947-11	ELECT	47UF	20.00%	25V
C6203	1-126-947-11	ELECT	47UF	20.00%	25V
C6204	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6205	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V
C6206	1-126-964-11	ELECT	10UF	20.00%	50V
C6207	1-126-947-11	ELECT	47UF	20.00%	25V
C6208	1-126-947-11	ELECT	47UF	20.00%	25V
C6209	1-163-133-00	CERAMIC CHIP	470PF	5.00%	50V
C6210	1-163-009-91	CERAMIC CHIP	0.001UF	10.00%	50V
C6211	1-126-964-11	ELECT	10UF	20.00%	50V
C6212	1-164-222-91	CERAMIC CHIP	0.22UF		25V
C6350	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6351	1-126-947-11	ELECT	47UF	20.00%	25V
C6353	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6354	1-126-964-11	ELECT	10UF	20.00%	50V
C6355	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C6356	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C6358	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6361	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C6362	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00%	50V
C6365	1-163-809-11	CERAMIC CHIP	0.047UF	10.00%	25V
C6376	1-126-947-11	ELECT (KV-EX29K94)	47UF	20.00%	25V
C6376	1-126-947-11	ELECT (KV-EX34K94)	47UF	20.00%	16V
C6377	1-126-947-11	ELECT	47UF	20.00%	25V
C6378	1-115-339-11	CERAMIC CHIP	0.1UF	10.00%	50V

REF NO.	PART NO.	DESCRIPTION		REMARK	
C6380	1-136-495-11	FILM	0.068UF	5.00%	50V
C6381	1-126-964-11	ELECT	10UF	20.00%	50V
C6385	1-126-947-11	ELECT	47UF	20.00%	25V
C6386	1-126-947-11	ELECT	47UF	20.00%	25V
C6388	1-126-964-11	ELECT	10UF	20.00%	50V
C6392	1-126-947-11	ELECT	47UF	20.00%	25V
C6409	1-126-963-11	ELECT	4.7UF	20.00%	50V
		<CONNECTOR>			
CN4800	1-695-915-11	TAB (CONTACT)			
CN4801 *	1-564-507-11	PLUG, CONNECTOR 4P			
CN6100	1-783-966-11	CONNECTOR, BOARD TO BOARD 30P			
CN6103 *	1-564-518-11	PLUG, CONNECTOR 3P			
CN6104 *	1-564-523-11	PLUG, CONNECTOR 8P			
CN6106	1-783-966-11	CONNECTOR, BOARD TO BOARD 30P			
		<DIODE>			
D4800	8-719-914-43	DAN202K			
D4801	8-719-914-43	DAN202K			
D4802	8-719-109-81	RD4.7ESB2			
D4803	8-719-911-19	1SS119-25			
D4804	8-719-911-19	1SS119-25			
D4805	8-719-914-43	DAN202K (KV-EX34K94 ONLY)			
D4808	8-719-914-43	DAN202K			
D4809	8-719-914-43	DAN202K			
D4811	1-249-381-11	CARBON	1	5%	1/4W
D4812	8-719-911-19	1SS119-25			
D4813	8-719-109-89	RD5.6ESB2			
D4814	8-719-404-50	MA111-TX			
D4815	8-719-109-54	RD2.2ES-B2			
D4816	8-719-911-19	1SS119-25			
D6101	8-719-510-02	D1NS4			
D6102	8-719-510-02	D1NS4			
D6103	8-719-063-73	DIODE D1NL20U-TR			
D6104	8-719-911-19	1SS119-25			
D6105	8-719-109-60	RD2.7ESB2			
D6106	8-719-510-02	D1NS4			
D6107	8-719-109-84	RD5.1ES-B1			
D6108	8-719-911-19	1SS119-25			
D6109	8-719-911-19	1SS119-25			
D6110	8-719-987-87	ERA85-009			
D6133	8-719-911-19	1SS119-25			
D6134	8-719-911-19	1SS119-25			
D6201	8-719-109-88	RD5.6ES-B1			
D6210	8-719-109-88	RD5.6ES-B1			
D6350	8-719-914-43	DAN202K			
D6351	8-719-914-43	DAN202K			
D6355	8-719-914-43	DAN202K			
D6404	8-719-914-43	DAN202K			
		<IC>			
IC4800	8-759-450-95	LM393N			
IC4801	8-759-450-95	LM393N			
IC4802	8-759-638-79	NJM3404AD-W			
IC4803	8-759-135-80	UPC358C			
IC6101	8-752-053-21	CXA1211M			
IC6102	8-759-450-95	LM393N			
IC6103	8-759-450-95	LM393N			

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REF NO.	PART NO.	DESCRIPTION	REMARK
IC6104	8-759-803-42	LA6500-FA	
IC6105	8-759-450-95	LM393N	
IC6106	8-759-198-31	UPC1093J-1-T	
IC6107	8-759-325-48	CA0005AD	
IC6108	8-759-567-08	MB88141APF-ER	
IC6201	8-759-183-37	CA0007AD	
IC6202	8-759-135-80	UPC358C	
IC6351	8-759-450-95	LM393N	
IC6353	8-759-231-53	TA7805S	
IC6354	8-759-325-48	CA0005AD	
IC6356	8-759-822-38	LA6510	
		<CHIP CONDUCTOR>	
JR6100	1-216-295-91	SHORT 0	
JR6101	1-216-295-91	SHORT 0	
JR6102	1-216-295-91	SHORT 0	
JR6103	1-216-295-91	SHORT 0	
JR6104	1-216-295-91	SHORT 0	
JR6105	1-216-295-91	SHORT 0	
JR6106	1-216-295-91	SHORT 0	
JR6107	1-216-295-91	SHORT 0	
JR6108	1-216-295-91	SHORT 0	
JR6109	1-216-295-91	SHORT 0	
JR6112	1-216-295-91	SHORT 0	
JR6113	1-216-295-91	SHORT 0	
JR6114	1-216-295-91	SHORT 0	
JR6115	1-216-295-91	SHORT 0	
JR6116	1-216-295-91	SHORT 0	
		<COIL>	
L4800	1-412-537-31	INDUCTOR 100UH	
L6101	1-416-920-11	INDUCTOR 10MH	
L6102	1-406-989-21	INDUCTOR 10MH	
		<IC LINK>	
PS6101	1-533-589-31	LINK, IC	
		<TRANSISTOR>	
Q4800	8-729-230-49	2SC2712-YG	
Q4801	8-729-230-49	2SC2712-YG	
Q4802	8-729-230-49	2SC2712-YG	
Q4803	8-729-230-49	2SC2712-YG	
Q4804	8-729-230-49	2SC2712-YG	
Q4805	8-729-230-49	2SC2712-YG	
Q4806	8-729-230-49	2SC2712-YG	
Q4807	8-729-230-49	2SC2712-YG	
Q4808	8-729-424-02	2SB709A-QRS-TX	
Q4809	8-729-424-02	2SB709A-QRS-TX	
Q4810	8-729-230-49	2SC2712-YG	
Q4811	8-729-230-49	2SC2712-YG	
Q4812	8-729-424-02	2SB709A-QRS-TX	
Q4813	8-729-424-02	2SB709A-QRS-TX	
Q4814	8-729-424-02	2SB709A-QRS-TX	
Q4815	8-729-424-02	2SB709A-QRS-TX	
Q4816	8-729-026-49	2SA1037AK-T146-R (KV-EX29K94)	
Q4816	8-729-424-02	2SB709A-QRS-TX (KV-EX34K94)	
Q4817	8-729-230-49	2SC2712-YG	
Q4818	8-729-424-02	2SB709A-QRS-TX	

REF NO.	PART NO.	DESCRIPTION	REMARK
Q4820	8-729-230-49	2SC2712-YG	
Q4821	1-801-806-11	TR DTC144EKA	
Q4822	8-729-230-49	2SC2712-YG	
Q6103	8-729-046-33	IRF720-LF49	
Q6104	8-729-230-49	2SC2712-YG	
Q6105	8-729-230-49	2SC2712-YG	
Q6106	8-729-026-49	2SA1037AK-T146-R	
Q6107	8-729-140-93	2SB733-34	
Q6118	8-729-230-49	2SC2712-YG	
Q6124	1-801-806-11	TR DTC144EKA	
Q6125	8-729-230-49	2SC2712-YG	
Q6126	8-729-026-49	2SA1037AK-T146-R	
Q6128	8-729-023-22	2SD2114K	
Q6201	8-729-230-49	2SC2712-YG	
Q6202	8-729-230-49	2SC2712-YG	
Q6203	8-729-422-33	2SD601A-Q-TX	
Q6350	8-729-230-49	2SC2712-YG	
Q6356	8-729-230-49	2SC2712-YG	
Q6405	8-729-026-49	2SA1037AK-T146-R	
Q6455	8-729-230-49	2SC2712-YG	
		<RESISTOR>	
R4408	1-216-025-11	RES-CHIP 100 5% 1/10W	
R4409	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4410	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R4411	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4412	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R4413	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4800	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R4801	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4802	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4803	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4804	1-216-065-91	RES-CHIP 4.7K 5% 1/10W	
R4805	1-208-792-11	METAL CHIP 2.7K 0.5% 1/10W	
R4806	1-208-792-11	METAL CHIP 2.7K 0.5% 1/10W	
R4807	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4809	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4810	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R4811	1-208-814-91	METAL CHIP 22K 0.5% 1/10W	
R4812	1-216-295-91	SHORT 0	
R4813	1-216-089-91	RES-CHIP 47K 5% 1/10W	
R4814	1-216-097-11	RES-CHIP 100K 5% 1/10W	
R4815	1-208-830-11	METAL CHIP 100K 0.5% 1/10W	
R4816	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4817	1-208-854-11	METAL CHIP 1M 0.5% 1/10W	
R4818	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R4819	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4820	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4821	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4822	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4823	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4824	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4825	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R4826	1-216-049-11	RES-CHIP 1K 5% 1/10W	
R4827	1-216-295-91	SHORT 0	
R4828	1-249-415-11	CARBON 680 5% 1/4W	
R4829	1-249-415-11	CARBON 680 5% 1/4W	
R4831	1-208-798-11	METAL CHIP 4.7K 0.5% 1/10W	
R4832	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R4833	1-208-822-11	METAL CHIP 47K 0.5% 1/10W	
R4834	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
R4835	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R4836	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4837	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4838	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4839	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R4840	1-216-295-91	SHORT	0		
R4841	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4842	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4843	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4844	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R4845	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R4846	1-216-295-91	SHORT	0		
R4847	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4848	1-216-073-91	RES-CHIP	10K	5%	1/10W
R4849	1-216-085-91	RES-CHIP (KV-EX29K94)	33K	5%	1/10W
R4849	1-216-095-00	RES-CHIP (KV-EX34K94)	82K	5%	1/10W
R4850	1-216-097-11	RES-CHIP	100K	5%	1/10W
R4851	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4852	1-216-081-00	RES-CHIP	22K	5%	1/10W
R4853	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R4854	1-216-067-00	RES-CHIP (KV-EX29K94)	5.6K	5%	1/10W
R4854	1-216-061-91	RES-CHIP (KV-EX34K94)	3.3K	5%	1/10W
R4855	1-216-065-91	RES-CHIP (KV-EX29K94)	4.7K	5%	1/10W
R4855	1-216-077-91	RES-CHIP (KV-EX34K94)	15K	5%	1/10W
R4856	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4857	1-208-800-11	METAL CHIP (KV-EX29K94)	5.6K	0.5%	1/10W
R4857	1-208-808-11	METAL CHIP (KV-EX34K94)	12K	0.5%	1/10W
R4858	1-208-814-91	METAL CHIP (KV-EX34K94)	22K	0.5%	1/10W
R4859	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4860	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R4861	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4862	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4864	1-208-788-11	METAL CHIP (KV-EX29K94)	1.8K	0.5%	1/10W
R4864	1-216-655-11	METAL CHIP (KV-EX34K94)	1.5K	0.5%	1/10W
R4865	1-216-635-11	METAL CHIP (KV-EX29K94)	220	0.5%	1/10W
R4865	1-208-774-11	METAL CHIP (KV-EX34K94)	470	0.5%	1/10W
R4866	1-216-089-91	RES-CHIP	47K	5%	1/10W
R4869	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4871	1-208-826-11	METAL CHIP (KV-EX29K94)	68K	0.5%	1/10W
R4871	1-208-824-11	METAL CHIP (KV-EX34K94)	56K	0.5%	1/10W
R4872	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4874	1-216-295-91	SHORT	0		
R4875	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4877	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R4878	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R4879	1-216-105-91	RES-CHIP	220K	5%	1/10W
R4880	1-216-295-91	SHORT	0		
R4881	1-216-295-91	SHORT	0		
R4882	1-208-838-91	METAL CHIP (KV-EX29K94)	220K	0.5%	1/10W
R4882	1-208-830-11	METAL CHIP (KV-EX34K94)	100K	0.5%	1/10W
R4883	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R4884	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R4887	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R4892	1-216-295-91	SHORT	0		
R6101	1-216-025-11	RES-CHIP	100	5%	1/10W
R6103	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6104	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6105	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6106	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6107	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6108	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6109	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6110	1-216-295-91	SHORT	0		
R6113	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6114	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6115	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R6116	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6117	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6118	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6119	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R6120	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6121	1-216-490-11	METAL OXIDE	39K	5%	3W
R6122	1-216-295-91	SHORT	0		
R6123	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6124	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R6126	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6127	1-208-832-11	METAL CHIP	120K	0.5%	1/10W
R6128	1-208-838-91	METAL CHIP	220K	0.5%	1/10W
R6129	1-216-353-00	METAL OXIDE	2.2	5%	1W
R6130	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6131	1-208-816-11	METAL CHIP (KV-EX29K94)	27K	0.5%	1/10W
R6131	1-208-798-11	METAL CHIP (KV-EX34K94)	4.7K	0.5%	1/10W
R6133	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R6134	1-208-803-11	METAL CHIP (KV-EX29K94)	7.5K	0.5%	1/10W
R6134	1-208-806-11	METAL CHIP (KV-EX34K94)	10K	0.5%	1/10W
R6135	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6136	1-260-328-11	CARBON	1K	5%	1/2W
R6137	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6138	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6139	1-208-803-11	METAL CHIP (KV-EX29K94)	7.5K	0.5%	1/10W
R6139	1-208-797-11	METAL CHIP (KV-EX34K94)	4.3K	0.5%	1/10W
R6140	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6141	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6142	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6143	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R6144	1-208-840-11	METAL CHIP (KV-EX29K94 ONLY)	270K	0.5%	1/10W
R6149	1-208-828-11	METAL CHIP	82K	0.5%	1/10W
R6150	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6151	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6152	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6153	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6154	1-208-802-11	METAL CHIP (KV-EX29K94)	6.8K	0.5%	1/10W
R6154	1-208-806-11	METAL CHIP (KV-EX34K94)	10K	0.5%	1/10W

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REF NO.	PART NO.	DESCRIPTION		REMARK	
R6155	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6156	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6157	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6158	1-216-689-11	RES-CHIP	39K	5%	1/10W
R6159	1-208-800-11	METAL CHIP (KV-EX29K94)	5.6K	0.5%	1/10W
R6159	1-208-802-11	METAL CHIP (KV-EX34K94)	6.8K	0.5%	1/10W
R6161	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R6162	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6168	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6169	1-208-776-11	METAL CHIP	560	0.5%	1/10W
R6170	1-216-037-00	RES-CHIP	330	5%	1/10W
R6171	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6172	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6173	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6174	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6175	1-208-816-11	METAL CHIP	27K	0.5%	1/10W
R6176	1-249-389-11	CARBON	4.7	5%	1/4W
R6177	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6178	1-249-389-11	CARBON	4.7	5%	1/4W
R6180	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6190	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6192	1-216-295-91	SHORT	0		
R6195	1-208-806-11	METAL CHIP (KV-EX29K94)	10K	0.5%	1/10W
R6195	1-208-800-11	METAL CHIP (KV-EX34K94)	5.6K	0.5%	1/10W
R6196	1-249-377-11	CARBON	0.47	5%	1/4W
R6197	1-216-295-91	SHORT	0		
R6200	1-208-827-11	METAL CHIP (KV-EX29K94)	75K	0.5%	1/10W
R6200	1-208-836-11	METAL CHIP (KV-EX34K94)	180K	0.5%	1/10W
R6201	1-247-750-11	CARBON	680	5%	1/2W
R6202	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R6203	1-215-906-11	METAL OXIDE	15	5%	3W
R6204	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6206	1-216-033-00	RES-CHIP	220	5%	1/10W
R6207	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R6208	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6209	1-216-099-00	RES-CHIP	120K	5%	1/10W
R6210	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6211	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6212	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6213	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6215	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R6216	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6217	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6218	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R6219	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R6220	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6221	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R6222	1-216-295-91	SHORT	0		
R6223	1-216-295-91	SHORT	0		
R6224	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6225	1-208-824-11	METAL CHIP	56K	0.5%	1/10W
R6226	1-216-033-00	RES-CHIP	220	5%	1/10W
R6227	1-216-033-00	RES-CHIP	220	5%	1/10W
R6324	1-216-017-91	RES-CHIP	47	5%	1/10W
R6325	1-216-017-91	RES-CHIP	47	5%	1/10W
R6326	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6327	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6350	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R6357	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6359	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6360	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6361	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6367	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6368	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6375	1-216-041-00	RES-CHIP	470	5%	1/10W
R6378	1-215-473-00	METAL	150K	1%	1/4W
R6379	1-216-295-91	SHORT	0		
R6382	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6385	1-216-295-91	SHORT	0		
R6386	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6391	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6394	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R6413	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6416	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6418	1-216-113-00	RES-CHIP	470K	5%	1/10W
R6419	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6420	1-216-111-00	RES-CHIP	390K	5%	1/10W
R6433	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6438	1-215-437-00	METAL	4.7K	1%	1/4W
R6442	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6456	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6457	1-208-814-91	METAL CHIP (KV-EX29K94)	22K	0.5%	1/10W
R6457	1-208-820-11	METAL CHIP (KV-EX34K94)	39K	0.5%	1/10W
R6458	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6459	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

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* A-1333-004-A DH BOARD MOUNTED
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<CAPACITOR>

C4701	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C4702	1-126-964-11	ELECT	10UF	20.00%	50V
C4703	1-163-275-11	CERAMIC CHIP	0.001UF	5.00%	50V
C4704	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V

<CONNECTOR>

CN4701	* 1-564-507-11	PLUG, CONNECTOR 4P	

<TRANSISTOR>

Q4701	8-729-230-49	2SC2712-YG
Q4702	8-729-230-49	2SC2712-YG
Q4703	8-729-424-02	2SB709A-QRS-TX
Q4704	8-729-424-02	2SB709A-QRS-TX

<RESISTOR>

R4701	1-216-049-11	RES-CHIP	1K	5%	1/10W
R4702	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4703	1-208-818-11	METAL CHIP	33K	0.5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

DH F1 H1

REF NO.		PART NO.	DESCRIPTION			REMARK
R4704		1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R4705		1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4706		1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R4707		1-216-057-00	RES-CHIP	2.2K	5%	1/10W
**********						
	*	A-1241-437-A	F1 BOARD MOUNTED (KV-EX29K94)			
	*	A-1241-448-A	F1 BOARD MOUNTED (KV-EX34K94)			
			**********			
		1-533-223-11	HOLDER, FUSE			
	*	4-374-846-01	COVER, CAPACITOR, CAP TYPE			
			<CAPACITOR>			
C1601	⚠	1-104-708-51	MYLAR	0.47UF	20.00%	250V
C1602	⚠	1-109-835-51	MYLAR	0.68UF	20.00%	250V
C1603	⚠	1-117-703-51	CERAMIC	0.0047UF	99%	250V
			<CONNECTOR>			
CN1601	⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1602	⚠	1-580-843-11	PIN, CONNECTOR (POWER)			
CN1604		1-695-915-11	TAB (CONTACT)			
			<FUSE>			
F1601	⚠	1-532-299-00	FUSE, TIME-LAG 5A/250V (KV-EX29K94)			
F1601	⚠	1-532-325-11	FUSE, TIME-LAG 6.3A/250V (KV-EX34K94)			
			<FERRITE BEAD>			
FB1601		1-410-397-21	FERRITE	1.1UH		
FB1602		1-410-397-21	FERRITE	1.1UH		
FB1603		1-410-397-21	FERRITE	1.1UH		
FB1604		1-410-397-21	FERRITE	1.1UH		
			<RESISTOR>			
R1601	⚠	1-202-885-91	SOLID	1M	10%	1/2W
			<TRANSFORMER>			
T1601	⚠	1-433-900-21	TRANSFORMER, LINE FILTER			
T1602	⚠	1-433-900-21	TRANSFORMER, LINE FILTER			
			<VARISTOR>			
VDR161		1-803-830-11	VARISTOR (ERZV14D621)			
**********						

REF NO.		PART NO.	DESCRIPTION			REMARK
	*	A-1372-869-A	H1 BOARD MOUNTED			
			**********			
	*	4-055-304-01	HOLDER, LED			
			<CAPACITOR>			
C1910		1-126-947-11	ELECT	47UF	20.00%	16V
C1911		1-126-947-11	ELECT	47UF	20.00%	16V
C1912		1-102-824-00	CERAMIC	470PF	5.00%	50V
C1930		1-136-153-00	FILM	0.01UF	5.00%	50V
C1932		1-136-153-00	FILM	0.01UF	5.00%	50V
C1935		1-102-824-00	CERAMIC	470PF	5.00%	50V
C1938		1-102-824-00	CERAMIC	470PF	5.00%	50V
			<CONNECTOR>			
CN1651	*	1-580-844-11	PIN, CONNECTOR (POWER)			
CN1652	*	1-580-844-11	PIN, CONNECTOR (POWER)			
CN1905	*	1-764-333-11	PLUG, CONNECTOR 10P			
CN1932	*	1-564-509-11	PLUG, CONNECTOR 6P			
CN1934	*	1-764-333-11	PLUG, CONNECTOR 10P			
			<DIODE>			
D1905		8-719-070-16	NNCD9.1A-T1			
D1906		8-719-083-18	DIODE SPB-25MVWF			
D1907		8-719-070-16	NNCD9.1A-T1			
D1930		8-719-929-15	HZS9.1NB2			
D1944		8-719-070-16	NNCD9.1A-T1			
D1945		8-719-911-19	1SS119-25			
D1946		8-719-911-19	1SS119-25			
			<IC>			
IC1901		8-742-134-01	SBX1981-51RP			
			<JACK>			
J1931		1-770-786-11	JACK			
J1932		1-784-646-11	TERMINAL, S			
J1933		1-770-329-11	JACK, PIN 3P			
			<COIL>			
L1931		1-414-856-11	INDUCTOR	10UH		
L1932		1-414-856-11	INDUCTOR	10UH		
			<TRANSISTOR>			
Q1901		8-729-030-02	DTC144ESA			
Q1902		8-729-030-02	DTC144ESA			
			<RESISTOR>			
R1911		1-249-411-11	CARBON	330	5%	1/4W
R1913		1-249-429-11	CARBON	10K	5%	1/4W
R1914		1-249-411-11	CARBON	330	5%	1/4W
R1915		1-249-429-11	CARBON	10K	5%	1/4W
R1916		1-249-401-11	CARBON	47	5%	1/4W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

H1 J P

REF NO.	PART NO.	DESCRIPTION		REMARK	
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W
R1933	1-247-895-91	CARBON	470K	5%	1/4W
R1934	1-247-807-31	CARBON	100	5%	1/4W
R1935	1-247-807-31	CARBON	100	5%	1/4W
R1936	1-247-895-91	CARBON	470K	5%	1/4W
R1952	1-249-421-11	CARBON	2.2K	5%	1/4W
R1970	1-249-426-11	CARBON	5.6K	5%	1/4W
R1971	1-249-413-11	CARBON	470	5%	1/4W
R1972	1-249-417-11	CARBON	1K	5%	1/4W
R1973	1-249-420-11	CARBON	1.8K	5%	1/4W
R1974	1-247-843-11	CARBON	3.3K	5%	1/4W
		<SWITCH>			
S1651	⚠ 1-571-433-31	SWITCH, PUSH (AC POWER)			
S1972	1-692-431-21	SWITCH, TACTILE			
S1973	1-692-431-21	SWITCH, TACTILE			
S1974	1-692-431-21	SWITCH, TACTILE			
S1975	1-692-431-21	SWITCH, TACTILE			
S1976	1-692-431-21	SWITCH, TACTILE			
S1977	1-692-431-21	SWITCH, TACTILE			
S1978	1-692-431-21	SWITCH, TACTILE			

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* A-1388-332-A J BOARD MOUNTED
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<CAPACITOR>

C2410	1-126-967-11	ELECT	47UF	20.00%	50V
C2411	1-126-967-11	ELECT	47UF	20.00%	50V
C2412	1-126-967-11	ELECT	47UF	20.00%	50V
C2413	1-102-112-00	CERAMIC	330PF	10.00%	50V
C2414	1-102-112-00	CERAMIC	330PF	10.00%	50V
C2418	1-126-960-11	ELECT	1UF	20.00%	50V
C2419	1-126-960-11	ELECT	1UF	20.00%	50V

<CONNECTOR>

CN2410	* 1-564-523-11	PLUG, CONNECTOR 8P			

<DIODE>

D2410	8-719-929-15	HZS9.1NB2			
D2411	8-719-929-15	HZS9.1NB2			
D2412	8-719-929-15	HZS9.1NB2			
D2414	8-719-929-15	HZS9.1NB2			
D2415	8-719-929-15	HZS9.1NB2			

<JACK>

J2410	1-784-623-11	BLOCK, PIN JACK 5P			

<RESISTOR>

R2410	1-247-804-11	CARBON	75	5%	1/4W
R2411	1-247-804-11	CARBON	75	5%	1/4W
R2412	1-247-804-11	CARBON	75	5%	1/4W
R2414	1-247-887-00	CARBON	220K	5%	1/4W
R2415	1-247-807-31	CARBON	100	5%	1/4W
R2417	1-247-887-00	CARBON	220K	5%	1/4W
R2418	1-247-807-31	CARBON	100	5%	1/4W
R2419	1-249-409-11	CARBON	220	5%	1/4W
R2420	1-249-409-11	CARBON	220	5%	1/4W
R2421	1-249-409-11	CARBON	220	5%	1/4W

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* A-1195-161-A P BOARD COMPLETE
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<CAPACITOR>

C8801	1-104-665-11	ELECT	100UF	20.00%	10V
C8802	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8803	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8804	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V
C8805	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8806	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8807	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8808	1-126-967-11	ELECT	47UF	20.00%	50V
C8809	1-126-967-11	ELECT	47UF	20.00%	50V
C8810	1-104-665-11	ELECT	100UF	20.00%	10V
C8811	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8812	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8813	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8814	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8815	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8816	1-104-665-11	ELECT	100UF	20.00%	10V
C8817	1-104-665-11	ELECT	100UF	20.00%	10V
C8818	1-104-665-11	ELECT	100UF	20.00%	10V
C8819	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8820	1-104-665-11	ELECT	100UF	20.00%	10V
C8821	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8822	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8823	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8824	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8825	1-117-720-11	CERAMIC CHIP	4.7UF		10V
C8826	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8827	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8828	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8829	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8830	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8831	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8832	1-163-249-11	CERAMIC CHIP	82PF	5.00%	50V
C8834	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8835	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V

<CONNECTOR>

CN8801	1-793-496-11	CONNECTOR, BOARD TO BOARD 20P			

<DIODE>

D8801	8-719-404-50	MA111-TX			

P VM

REF NO.	PART NO.	DESCRIPTION		REMARK
		<FILTER>		
FL8802	1-236-071-11	ENCAPSULATED COMPONENT		
FL8803	1-236-071-11	ENCAPSULATED COMPONENT		
FL8804	1-236-071-11	ENCAPSULATED COMPONENT		
FL8805	1-236-071-11	ENCAPSULATED COMPONENT		
FL8808	1-236-071-11	ENCAPSULATED COMPONENT		
		<IC>		
IC8801	8-759-830-24	SDA9588XB23		
IC8802	8-759-460-72	BA033FP-E2		
		<COIL>		
L8801	1-414-856-11	INDUCTOR	10UH	
L8806	1-412-537-31	INDUCTOR	100UH	
L8807	1-414-856-11	INDUCTOR	10UH	
L8809	1-408-412-00	INDUCTOR	18UH	
		<TRANSISTOR>		
Q8801	8-729-216-22	2SA1162-G		
Q8802	8-729-216-22	2SA1162-G		
Q8803	8-729-216-22	2SA1162-G		
Q8804	8-729-026-49	2SA1037AK-T146-R		
Q8805	8-729-026-49	2SA1037AK-T146-R		
Q8806	8-729-230-49	2SC2712-YG		
Q8807	8-729-230-49	2SC2712-YG		
Q8808	8-729-216-22	2SA1162-G		
Q8809	8-729-216-22	2SA1162-G		
Q8810	8-729-216-22	2SA1162-G		
Q8811	8-729-216-22	2SA1162-G		
Q8812	8-729-230-49	2SC2712-YG		
		<RESISTOR>		
R8801	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8802	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8803	1-216-025-11	RES-CHIP	100 5%	1/10W
R8804	1-216-025-11	RES-CHIP	100 5%	1/10W
R8805	1-216-295-91	SHORT	0	
R8806	1-216-041-00	RES-CHIP	470 5%	1/10W
R8807	1-216-041-00	RES-CHIP	470 5%	1/10W
R8808	1-216-041-00	RES-CHIP	470 5%	1/10W
R8809	1-216-025-11	RES-CHIP	100 5%	1/10W
R8810	1-216-025-11	RES-CHIP	100 5%	1/10W
R8811	1-208-770-11	METAL CHIP	330 0.5%	1/10W
R8812	1-216-025-11	RES-CHIP	100 5%	1/10W
R8815	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8816	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8817	1-216-041-00	RES-CHIP	470 5%	1/10W
R8818	1-216-025-11	RES-CHIP	100 5%	1/10W
R8819	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8820	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8821	1-216-025-11	RES-CHIP	100 5%	1/10W
R8822	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8823	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8824	1-216-025-11	RES-CHIP	100 5%	1/10W
R8825	1-216-041-00	RES-CHIP	470 5%	1/10W
R8826	1-216-025-11	RES-CHIP	100 5%	1/10W
R8827	1-216-025-11	RES-CHIP	100 5%	1/10W
R8828	1-216-025-11	RES-CHIP	100 5%	1/10W
R8829	1-216-025-11	RES-CHIP	100 5%	1/10W
R8830	1-216-025-11	RES-CHIP	100 5%	1/10W
R8831	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8832	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8833	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8834	1-216-089-91	RES-CHIP	47K 5%	1/10W
R8835	1-216-047-91	RES-CHIP	820 5%	1/10W
R8836	1-216-047-91	RES-CHIP	820 5%	1/10W
R8837	1-216-025-11	RES-CHIP	100 5%	1/10W
R8838	1-216-053-00	RES-CHIP	1.5K 5%	1/10W
R8839	1-216-053-00	RES-CHIP	1.5K 5%	1/10W
R8840	1-216-025-11	RES-CHIP	100 5%	1/10W
R8841	1-216-025-11	RES-CHIP	100 5%	1/10W
R8842	1-216-097-11	RES-CHIP	100K 5%	1/10W
R8843	1-216-041-00	RES-CHIP	470 5%	1/10W
R8844	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8845	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8846	1-216-041-00	RES-CHIP	470 5%	1/10W
R8847	1-216-121-11	RES-CHIP	1M 5%	1/10W
R8848	1-216-073-91	RES-CHIP	10K 5%	1/10W
R8849	1-216-049-11	RES-CHIP	1K 5%	1/10W
R8850	1-216-051-00	RES-CHIP	1.2K 5%	1/10W
		<CRYSTAL>		
X8801	1-781-946-21	VIBRATOR, CRYSTAL		

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*	A-1342-623-A	VM BOARD MOUNTED	
		**********	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		<CAPACITOR>	
C5401	1-126-935-11	ELECT	470UF 20.00% 16V
C5402	1-137-194-81	FILM	0.47UF 5.00% 50V
C5403	1-126-935-11	ELECT	470UF 20.00% 6.3V
C5405	1-126-933-11	ELECT	100UF 20.00% 16V
C5406	1-126-935-11	ELECT	470UF 20.00% 6.3V
C5407	1-107-364-11	MYLAR	0.01UF 10.00% 200V
C5408	1-107-364-11	MYLAR	0.01UF 10.00% 200V
C5409	1-107-649-11	ELECT	2.2UF 20.00% 250V
C5410	1-130-471-00	MYLAR	0.001UF 5.00% 50V
C5411	1-130-471-00	MYLAR	0.001UF 5.00% 50V
C5412	1-126-935-11	ELECT	470UF 20.00% 16V
C5413	1-107-648-91	ELECT	100UF 20.00% 160V
C5415	1-104-999-11	MYLAR	0.1UF 10.00% 200V
C5417	1-101-821-00	CERAMIC	0.0022UF 500V
C5418	1-107-638-11	ELECT	33UF 20.00% 160V
		<CONNECTOR>	
CN5401	* 1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5402	1-764-334-11	PLUG, CONNECTOR 11P	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

VM

REF NO.	PART NO.	DESCRIPTION			REMARK
		<DIODE>			
D5400	8-719-911-19	1SS119-25			
D5401	8-719-510-02	D1NS4			
D5402	8-719-911-19	1SS119-25			
D5403	8-719-911-19	1SS119-25			
D5404	8-719-911-19	1SS119-25			
D5405	8-719-110-56	RD22ES-B1			
D5406	8-719-110-56	RD22ES-B1			
		<COIL>			
L5400	1-412-525-31	INDUCTOR	10UH		
		<TRANSISTOR>			
Q5400	8-729-119-78	2SC2785-HFE			
Q5401	8-729-119-78	2SC2785-HFE			
Q5402	8-729-119-78	2SC2785-HFE			
Q5403	8-729-119-78	2SC2785-HFE			
Q5404	8-729-119-76	2SA1175-HFE			
Q5405	8-729-119-76	2SA1175-HFE			
Q5406	8-729-045-05	2SA2005			
Q5407	8-729-045-04	2SC5511			
		<RESISTOR>			
R5401	1-249-425-11	CARBON	4.7K	5%	1/4W
R5402	1-249-415-11	CARBON	680	5%	1/4W
R5403	1-247-739-11	CARBON	100	5%	1/2W
R5404	1-249-418-11	CARBON	1.2K	5%	1/4W
R5406	1-249-425-11	CARBON	4.7K	5%	1/4W
R5407	1-249-399-11	CARBON	33	5%	1/4W
R5408	1-247-807-31	CARBON	100	5%	1/4W
R5409	1-249-409-11	CARBON	220	5%	1/4W
R5410	1-249-401-11	CARBON	47	5%	1/4W
R5411	1-249-401-11	CARBON	47	5%	1/4W
R5412	1-249-429-11	CARBON	10K	5%	1/4W
R5413	1-249-414-11	CARBON	560	5%	1/4W
R5414	1-249-432-11	CARBON	18K	5%	1/4W
R5415	1-247-739-11	CARBON	100	5%	1/2W
R5416	1-249-385-11	CARBON	2.2	5%	1/4W
R5417	1-249-432-11	CARBON	18K	5%	1/4W
R5418	1-249-414-11	CARBON	560	5%	1/4W
R5419	1-249-421-11	CARBON	2.2K	5%	1/4W
R5420	1-249-421-11	CARBON	2.2K	5%	1/4W
R5421	1-249-385-11	CARBON	2.2	5%	1/4W
R5422	1-249-405-11	CARBON	100	5%	1/4W
R5423	1-215-915-11	METAL OXIDE	470	5%	3W
R5424	1-249-395-11	CARBON	15	5%	1/4W
R5425	1-249-401-11	CARBON	47	5%	1/4W
R5427	1-249-395-11	CARBON	15	5%	1/4W

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ACCESSORIES AND PACKING MATERIALS
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	1-565-886-11	ADAPTOR, CONVERSION
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
*	4-029-168-01	BAG, PROTECTION (KV-EX29K94)
*	4-074-148-01	BAG, PROTECTION (KV-EX34K94)
	4-065-210-01	JOINT
*	4-076-402-02	CUSHION (LOWER)(ASSY) (KV-EX29K94)
*	4-076-924-01	CUSHION(LOWER)(ASSY) (KV-EX34K94)
*	4-076-405-02	CUSHION (UPPER)(ASSY) (KV-EX29K94)
*	4-076-927-01	CUSHION(UPPER)(ASSY) (KV-EX34K94)
*	4-076-409-02	TRAY (KV-EX29K94)
*	4-076-931-01	TRAY (KV-EX34K94)
*	4-084-116-01	INDIVIDUAL CARTON (KV-EX29K94)
*	4-084-623-01	INDIVIDUAL CARTON (KV-EX34K94)
	4-078-366-71	MANUAL INSTRUCTION
	4-392-003-11	BAND, HOLD
	4-392-004-11	CLIP

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REMOTE COMMANDER
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	1-476-842-11	REMOTE COMMANDER (RM-965)
	4-079-833-01	BATTERY COVER REMOTE COMMANDER

Sony Corporation
Sony Technology Malaysia Sdn. Bhd.
Visual Products General Area

9-872-256-01

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