



HITACHI



**MODELS HV-C10/C10A
3-CCD COLOR CAMERAS**

SERVICE MANUAL

**SECOND EDITION
(December 1994)**




Hitachi Denshi, Ltd.

SERVICE SAFETY PRECAUTIONS

PRODUCT SAFETY NOTICE

Many parts in this camera/AC adaptor have special safety related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, etc.

Electrical components having such features are identified by an exclamation point within an

equilateral triangle() on the schematic diagram and parts list and exploded view in this service manual. The use of replacement substitute component which does not have same safety characteristics source recommended replacement one, shown in the parts list in this service manual, may create shock, fire, or other hazards.

REPLACE WITH CONFORM TYPES ONLY!

NOTICE:

Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

1. When replacing a chassis in the camera/AC adaptor all the protective devices must be put back in place, such as barriers, adjustment and compartment covershields, isolation resistor-capacitor, etc.
2. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
3. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicated evidence of overheating.
4. Before returning a instrument to the customer, the sevice technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become detective, or inadvertently detected durring servicing.

Therefore, the following checks should be performed in combination with AC adaptor or Remote Operation Unit for the continued protection of the customer and service technician.

GROUNDING CONTINUITY TEST

- remove mains plug from wall outlet.
- with an ohm-meter in its highest resistance range, measure resistance between the grounding prong of the mains plug and all accessible conductive parts.

THE METER MUST READ XERO OHM

- the mains plug still being removed from the wall outlet, switch on the instrument.
- with an ohm-meter in its highest resistance range, measure resistance between the grounding prong of the mains plug and the two other prongs of the mains plug.

BOTH METER READINGS MUST BE MORE THAN 5 MEGA-OHM.

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE THE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND CORRECTIVE ACTION MUST BE TAKEN BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER.

FUSE REPLACEMENT

For continued protection against fire hazard.

- Replace with the same type of fuse.
- Refer replacement to qualified service personnel.

NOTE FOR USERS IN THE UNITED KINGDOM:**IMPORTANT:**

The wires of the mains lead are coloured in accordance with the following code:

Green-and-Yellow: EARTH

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \perp or coloured green-and-yellow.
- The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
- The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING: THIS PRODUCT MUST BE EARTHED.

NOTICE

This Service Manual describes the most typical product of this model. If there are any specific differences between this Manual and the servicing unit, please contact Hitachi Denshi sales office in area.

HV-C10/C10A CCD Cameras

Service Manual

This Supplement is prepared to describe the upgraded functions of the HV-C10A and the related information in comparison with the HV-C10.

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2. Change of type designations of related units.
3. New spare parts list.
4. Unit codes list
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 - 1) HV-C10 CPU1, HV-C10F CPU3, HV-C10A/C11 CPU4
 - 2) HV-C10A/FP-C10A DTL
 - 3) HV-C10/FP-C10 DRV2, HV-C10A/FP-C10A DRV4

1. Comparison table between HV-C10/FP-C10 and HV-C10A/FP-C10A

	Function	HV-C10 FP-C10	HC-V10A FP-C10A
1	Lock scan and CCD iris functions	Not provided	Added
2	Horizontal resolution	680 TVL	700 TVL

2. Change of type designations of related units

2-1 CCD units, CCD prism assemblies and DRV units

		HV-C10	HC-C10A	FP-C10	FP-C10A
CCD Unit		CPU	CPU4	CPU2	CPU5
CCD Assy	NTSC	C10 IN	C10A IN	C10 IN	C10A IN
	PAL	C10 IP	C10A IP	C10 IP	C10A IP
DRV Unit		DRV2	DRV4	DRV2	DRV4

2-2 DTL unit

HV-C10/FP-C10	HV-C10A/FP-C10A
DTL-02	DTL-02A

2-3 Model name marked on cover assemblies

For the new models, the relevant model name is marked on the right and left cover assemblies.

3. New spare parts list

	HV-C10/FP-C10			HV-C10A/FP-C10A	
	Symbol	Parts code	Description	Parts code	Description
CPU unit	Software	C10 CPU2 V1.0		C10A V1.0	
	CPU4			No modification performed	
	CPU5	IC113 J105 J111	IDH1480 HD74HC164 0.1W 1KOHM	RME1438	Deleted 0.1W, 1KOHM Deleted
DTL unit	DL403 to DL405 DL406 R431 to R436 R461 R458 R459 J401 to J404	EDL0011 EDL0006 RME1438 RME1442 RME1413	LC-0412 (130NS) LC-0397 (75NS) 0.1W 1KOHM 0.1W 2.2KOHM Not used Not used 0.1W 0OHM	EDL0008 EDL0013 RME1433 RME1445 RME1450 RME1450	LC-0408 (155NS) LC-0425 (100NS) 0.1W 390OHM 0.1W 3.9KOHM 0.1W 10KOHM 0.1W 10KOHM Deleted

4. Name and code of each unit

Unit	HV-C10	HC-C10A	FP-C10	FP-C10A
CPU unit	CPU 22X0436	CPU4 22X0548	CPU2 22X0449	CPU5 22X0555
CCD prism assy	C10IN 22X0421	C10AIN 22X0543	C10IN 22X0421	C10AIN 22X0543
	C10IP 22X0422	C10AIP 22X0544	C10IP 22X0422	C10AIP 22X0544
Side cover assy	R 8543971E	8543971D	8554027A	8554027C
	L 8543973E	3243428C	8554029A	8554029A

Note : The unit code of the DTL unit remains unchanged.

HV-C10 Service Manual

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1. GENERAL

The Hitachi HV-C10 is a compact, high performance 3-CCD color camera for industrial application which employs the newly developed 1/2-inch CCD with 360,000 (420,000 for PAL) pixels and ICs extensively. In conjunction with various accessories, the HV-C10 can be used for a variety of applications including observation, TV conference and image processing.

FEATURES

- **High resolution**

Horizontal resolution of 680 TV lines (luminance signal) is achieved by employing the newly developed 1/2-inch 360,000 (420,000 for PAL)-pixel CCD and the high accuracy CCD cladding technology.

- **High sensitivity**

High sensitivity and a high S/N are achieved by employing the CCD with a micro lens.

- **Real-time auto white balance**

The microprocessor detects the change of color temperature in real time and automatically corrects the color temperature, so that the optimum white balance can always be ensured during shooting.

- **Auto gain**

In the real-time auto white balance mode, the auto gain function which automatically selects gain in accordance with light quantity simultaneously operates. The HV-C10 is thus suitable for observation in particular.

- **Electronic shutter**

Since a variable speed electronic shutter is incorporated, the camera is most suitable for shooting a rapidly moving

object.

- **Memory backup by E²PROM**

(battery unnecessary)

By using an E²PROM, a battery for memory backup is no longer necessary.

- **Compact camera head and low power consumption**

The size of the camera head is substantially reduced by using the custom ICs (1/3 of FP-C1H in volume). Low power consumption (7W) is also achieved.

- **Direct connection to AC adaptor without cable**

The camera can be directly connected to the AC adaptor (AP-C10) for exclusive use.

- **Camera cable connection**

By using the optional RA-C10 ROU Adaptor, the camera can be connected to the optional RU-C10 Remote Operation Unit through a single camera cable (up to 100m). The camera is thus most suitable for applications including those for TV conference and weather observation camera.

- **Camera remote control**

By using the optional RC-C10 Remote Control Box, various functions of the camera can be remote-controlled. By using the optional JU-C10 RS-232-C Level

Convertor, the camera can also be remote-controlled from a personal computer through RS-232-C.

- **A variety of functions**

- Three-memory auto white balance corresponding to optical filter
- Switchable between the field storage mode (normal mode) and frame storage

mode (high resolution mode)

- Auto knee function for improving white compression at highlights
- Flare correction circuit providing an even, pure picture
- Masking circuit improving color reproductivity.
- Self diagnosis display function for various functions

NOTES TO USERS

Notes for safety

- Use this camera by 12V DC power supply.
- Use care for flammable things, water or metal not to intrude into the inside of the camera to avoid a possible failure and a possible accident.
- Do not modify the camera or do not use the camera with the side cover removed. It may cause a failure and an accident.
- When rolls of thunder are heard near during shooting outside, stop using the camera. When using the camera in the rain, use care not to get the camera wet.
- If the camera should show any abnormality, be sure to turn off the camera and disconnect the power cord, then contact the shop where you purchased the camera or your nearest Hitachi Denshi service station.

Notes for operation

- **Supply voltage**

Check that the supply voltage is between 10.5V and 17V DC.

When the voltage drops, color may be changed and noise may be generated. If the voltage exceeds 17V, it may cause a failure.

- **Place for use and storage**

Avoid using or storing the camera at the following places.

- Extremely hot or cold place
[Ambient temperature of the camera:
– 10 to 45°C (14 to 113°F)]
Note that the temperature inside a car with its windows closed may rise to 50°C (122°F) or more in midsummer in particular.
- Place where strong radio wave is generated
(near TV or radio transmitting station, etc.)
- Humid or dusty place
- Place where strong vibrations occur
- Installation of camera
When mounting the camera, use two or three tripod screws (1/4-20UNC).
- Maintenance
Dust off the surface of the lens or the optical filter with a blower. Wipe off stains on the camera head lightly with a dry, soft cloth.

2. SPECIFICATIONS

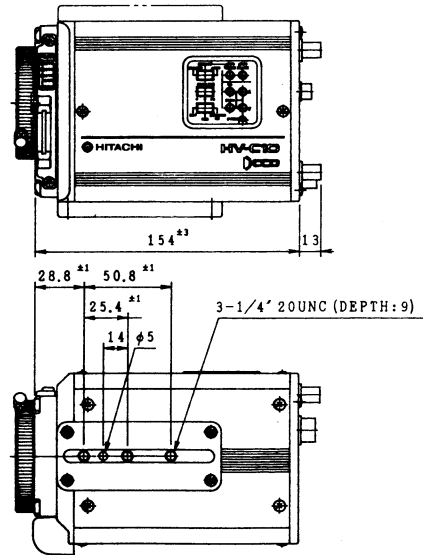
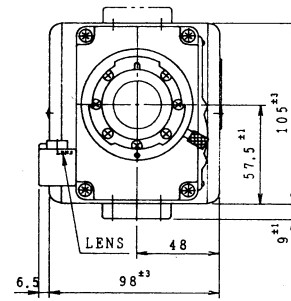
Camera head (HV-C10)

■ Color system	NTSC, PAL	■ Electronic shutter	1/100, 1/250, 1/500, NTSC 1/1000, 1/2000 sec.
■ Optical system	1/2 inch, f1.4 prism	■ PAL	1/60, 1/250, 1/500, 1/1000, 1/2000 sec.
■ Pickup system	RGB 3-chip system	■ Color bars	NTSC: SMPTE PAL: EBU
■ Imaging device	1/2-inch interline CCD	■ Output signals	
■ Sync system	Internal or genlock (automatic switching)	Video output	VBS 1.0Vp-p/75 ohms, BNC
■ External sync input	Composite video signal: VBS 1.0Vp-p/75 ohms (or black burst signal), BNC	●Y/C output*	S terminal or VA-C10 (option) BNC (unusable at the same time) Y: 1.0Vp-p/75 ohms C: 0.286Vp-p (burst level)/75 ohms
■ Horizontal resolution	680 TV lines at center (luminance signal) 510 TV lines (each output of RGB)	●RGB output*	VA-C10 (option) BNC R: 0.7Vp-p/75 ohms G: 0.7Vp-p/75 ohms B: 0.7Vp-p/75 ohms
■ Vertical resolution	350 TV lines (field storage mode) 480 TV-lines (frame storage mode)	●Component output* (Y/R-Y/B-Y)	VA-C10 (option) BNC Y 1.0Vp-p/75 ohms R-Y: 0.7Vp-p/75 ohms B-Y: 0.7Vp-p/75 ohms
■ S/N	NTSC PAL	●Sync output	VA-C10 (option) BNC SYNC: 2Vp-p/75 ohms HD: 2Vp-p/75 ohms VD: 2Vp-p/75 ohms
	58dB typical		
	56dB typical (gamma = 1, DTL OFF, sensitivity 0dB, Y OUT)		
■ Sensitivity	2000 lux (f5.6, 3200K)		
■ Minimum illumination	15 lux (f1.4 at +18dB)		
■ Gamma correction	0.35 to 1.0		
■ Optical filter	3200K, 5600K, 5600K + 1/8ND, CLOSE		
■ Vertical contour correction	2H		
■ Lens mount	Bayonet mount		
■ Gain switching	0dB, +9dB, +18dB		

* (Note) One of these outputs selectable with the SELECT switch of SW112 VIDEO SELECT inside the camera

■ Supply voltage	12V DC (10.5 - 17V DC)
■ Power consumption	7W (camera head only)
■ Operating temperature	-10 to 45°C (14 to 113°F)
■ Storage temperature	-20 to 60°C (-4 to 140°F)
■ Weight	1.4kg (3.1 lb)

■ Dimensions
Camera head Unit: mm



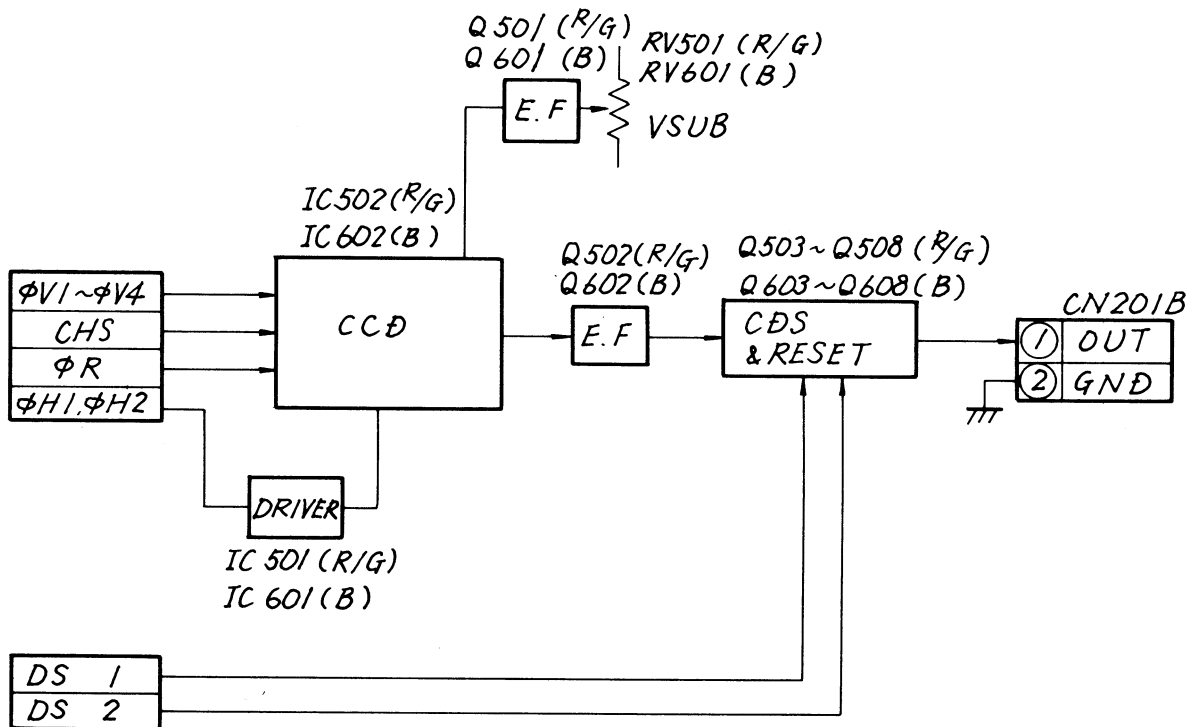
Dimensions: 98(W) × 105(H) × 154(D)mm
 (3.9 × 4.1 × 6.1 in)

The specifications and the external view are subject to change without notice for improvement.

SNS-1 UNIT (Prism unit)

The pulses $\phi V1\text{-}\phi V4$, $\phi H1\text{-}\phi H2$, CHS, ϕR are applied from the DRV-1 unit to the CCD. DS1 and DS2 are supplied to the CDS & RESET circuit. The video signal is fed out from pin 4 of the CCD. The random noise generated in the CCD is eliminated by the CDS & RESET circuit. The horizontal resolution is improved by the circuit. The output of the CDS & RESET circuit is connected to the PRA unit via MB1.

When all of the three channels are abnormal on the picture, check the output pulses and the voltages of the DRV-1 unit.

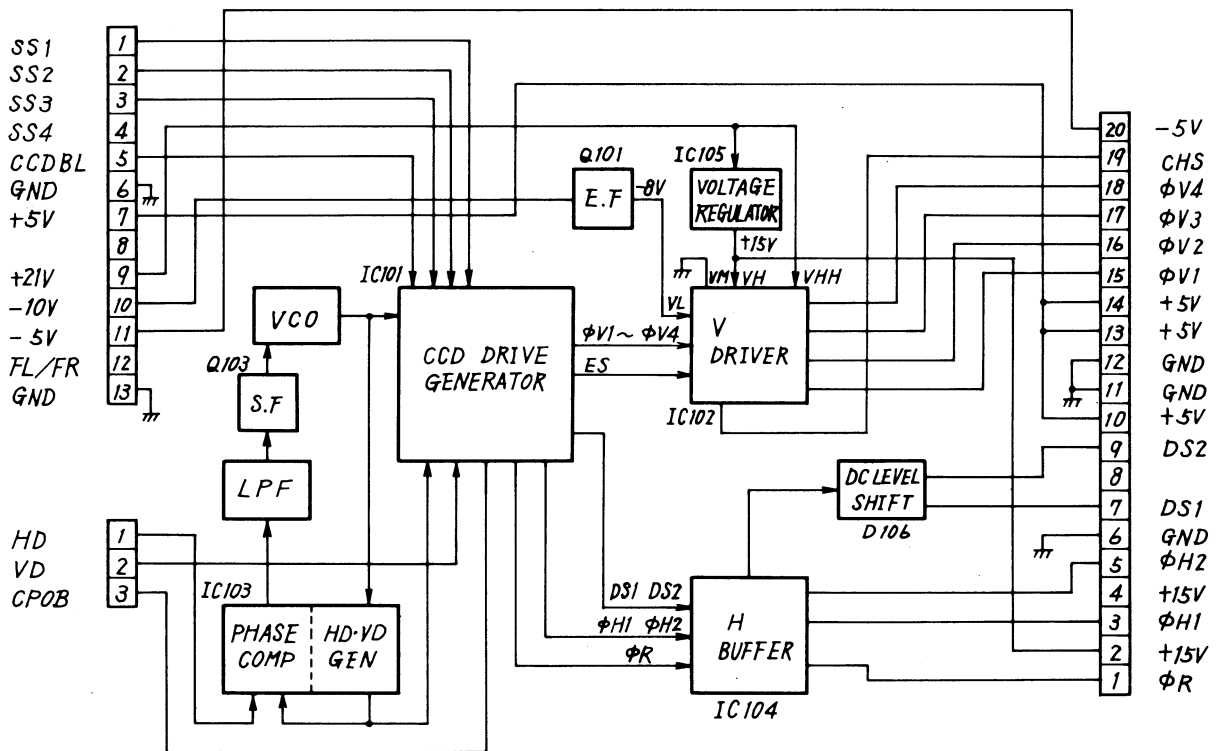


SNS-1 unit
Block diagram

DRV-1 UNIT

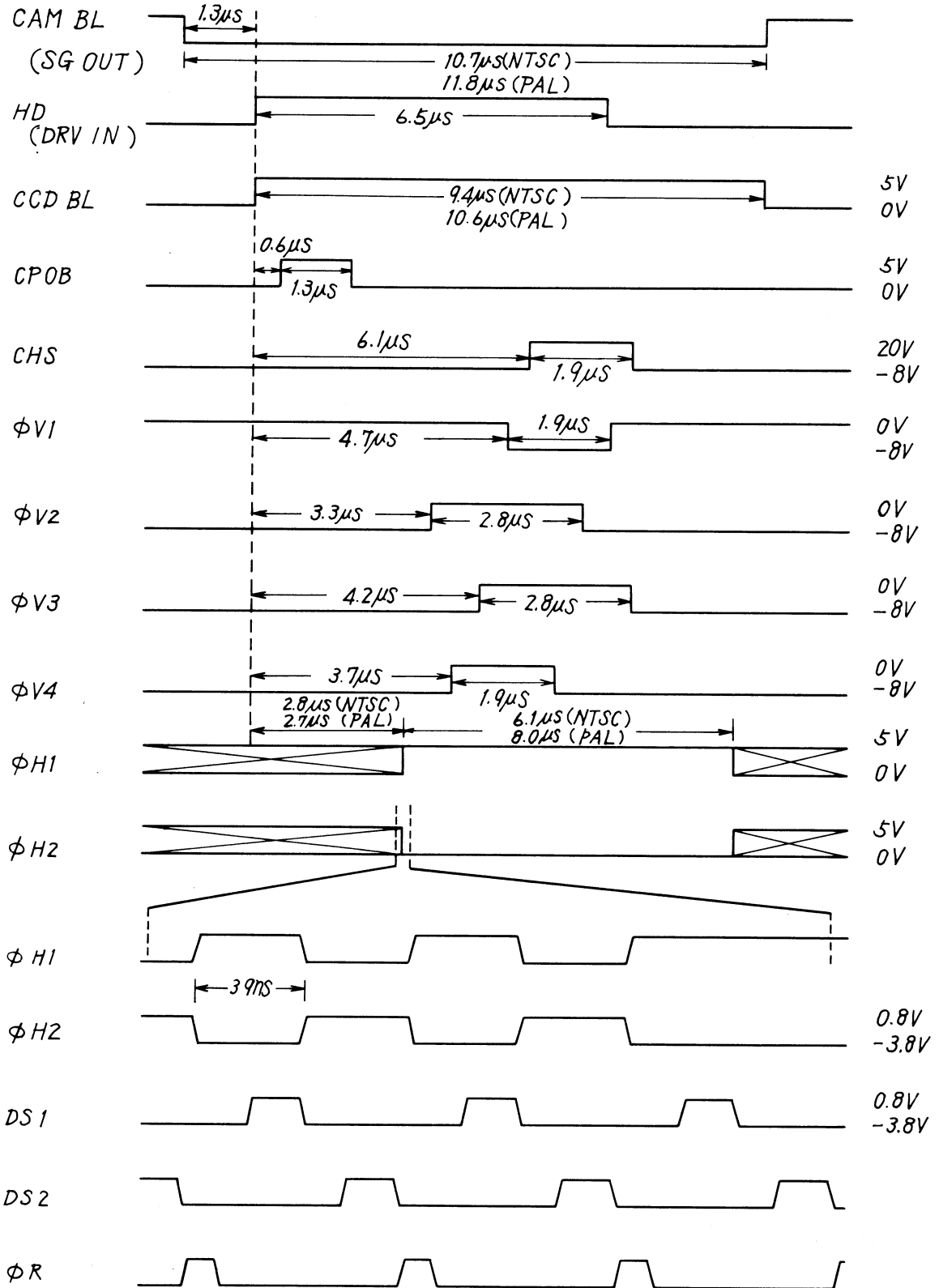
The DRV-1 unit generates all the pulses and voltages required for the CCD on CN301. Each pulse is generated by IC101. IC101 generates the 12.8MHz clock pulse and the phase lock loop (PLL) is formed.

IC102, IC105 and Q101 from the pulse driver are related to the vertical transfer and feed out the voltage pulse which is most suitable for the vertical transfer. IC104 and D106 from the pulse driver are related to the horizontal transfer and feed out the voltage pulse which is most suitable for the horizontal transfer. (For details, see the timing chart of the CCD peripherals.)



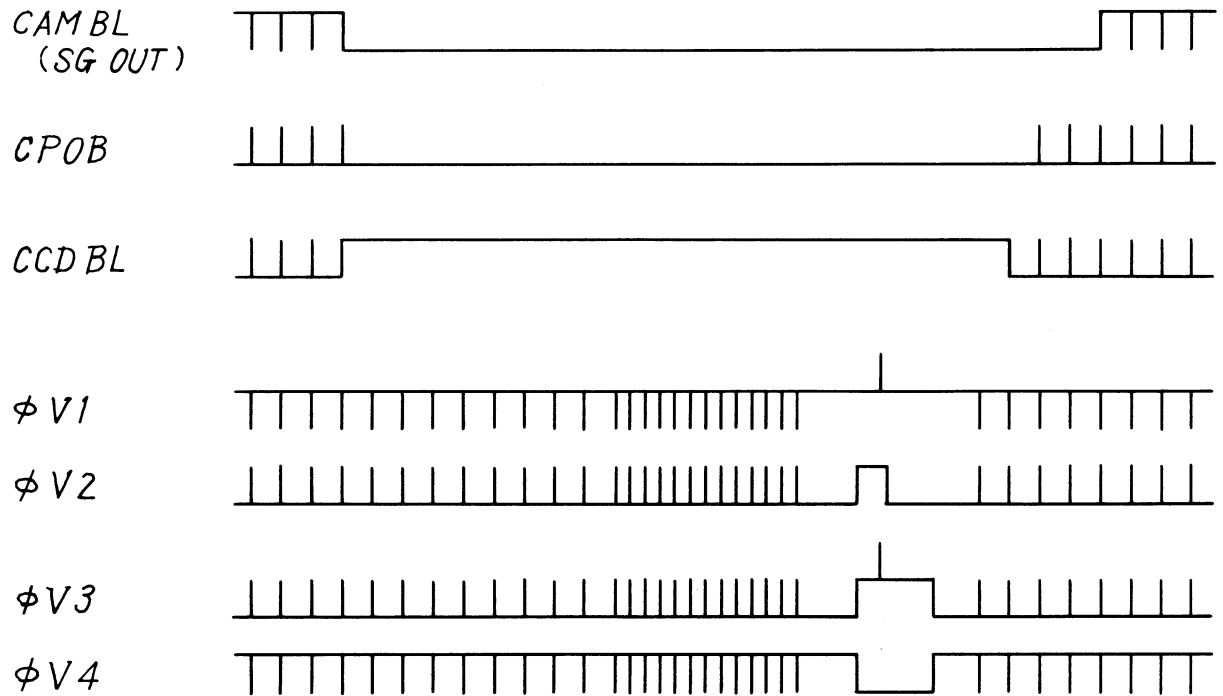
DRV.1 unit
Block diagram

CCD Timing chart

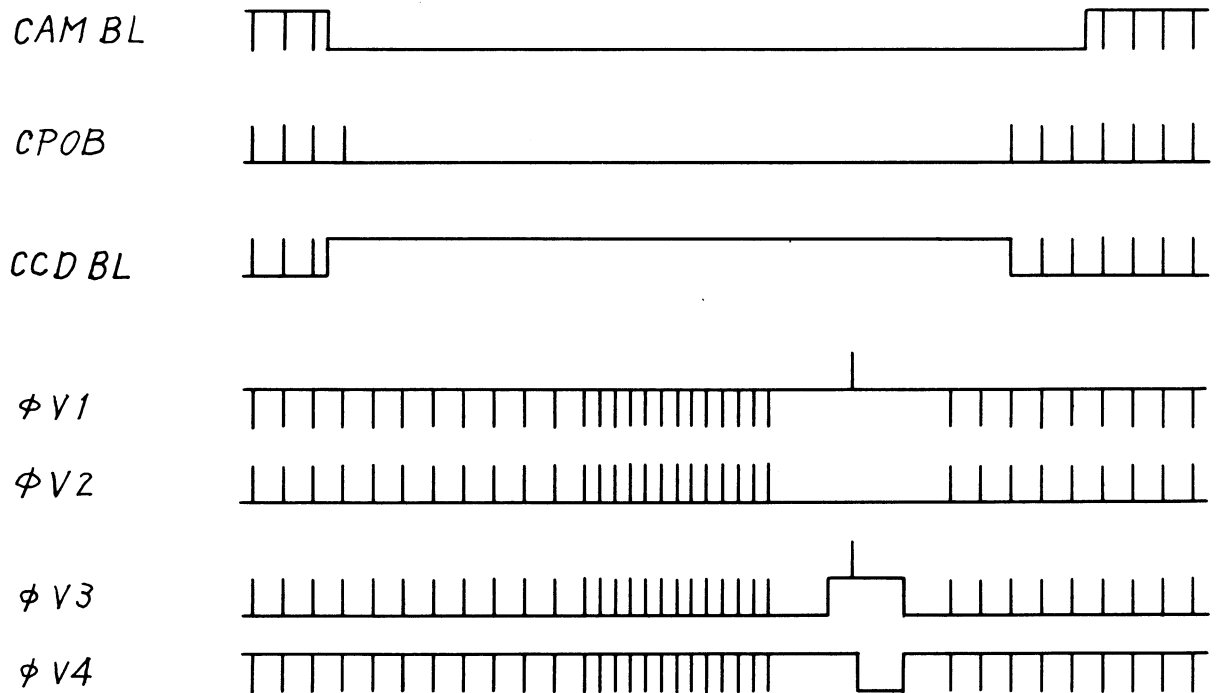


CCD Timing chart(NTSC)

ODD FIELD

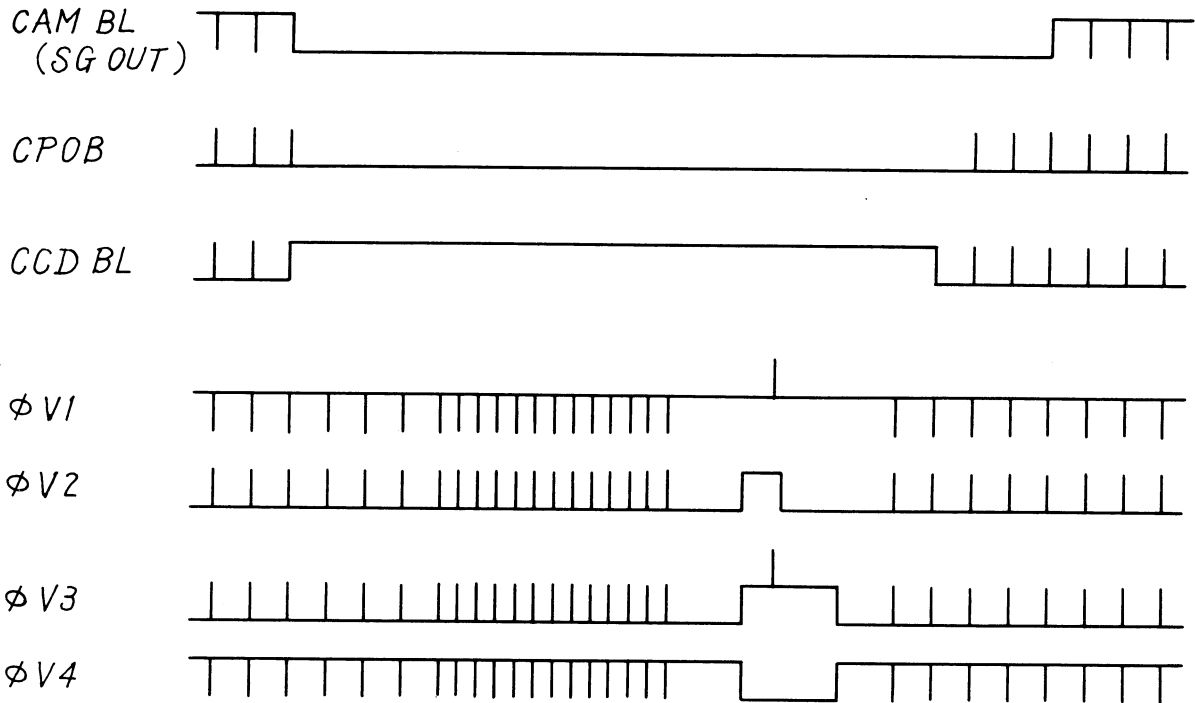


EVEN FIELD

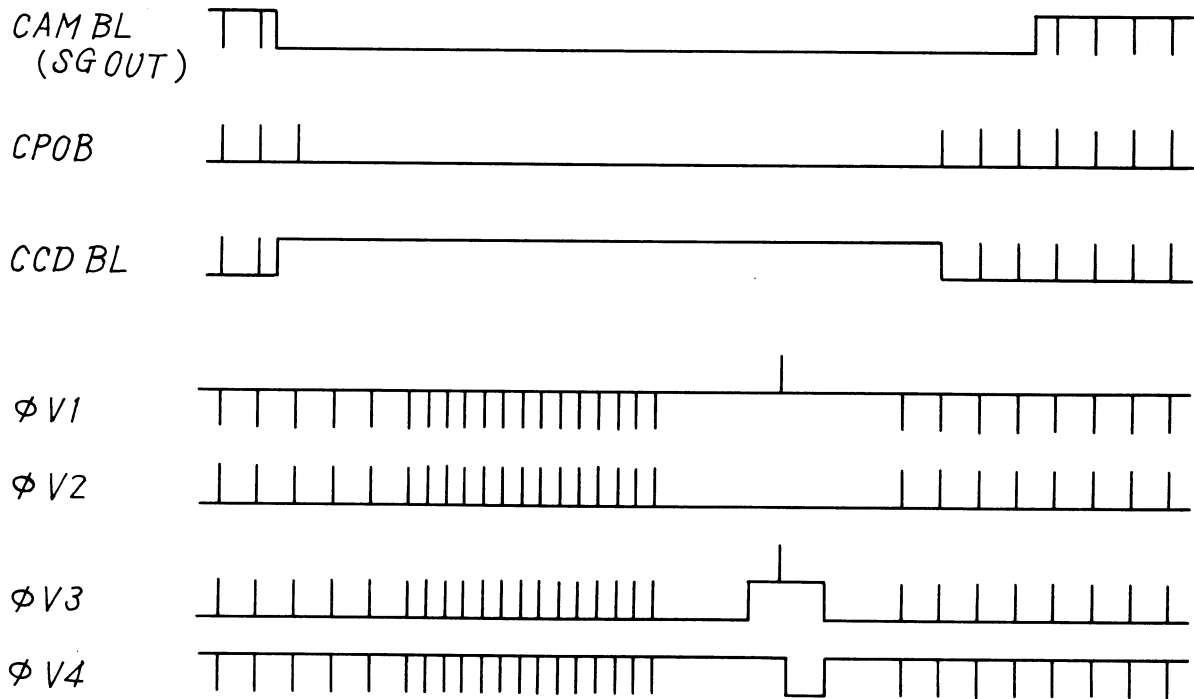


CCD Timing chart(PAL)

ODD FIELD



EVEN FIELD



PRA UNIT

1) Signal amplifier

This amplifier amplifies the RGB signals (negative) from the sensor block to the rated level (0.35 Vp-p) of the PRC-3 unit in the next stage. The clock component (approximately 12.8MHz) is mixed in the RGB signals from the sensor block to drive the CCD.

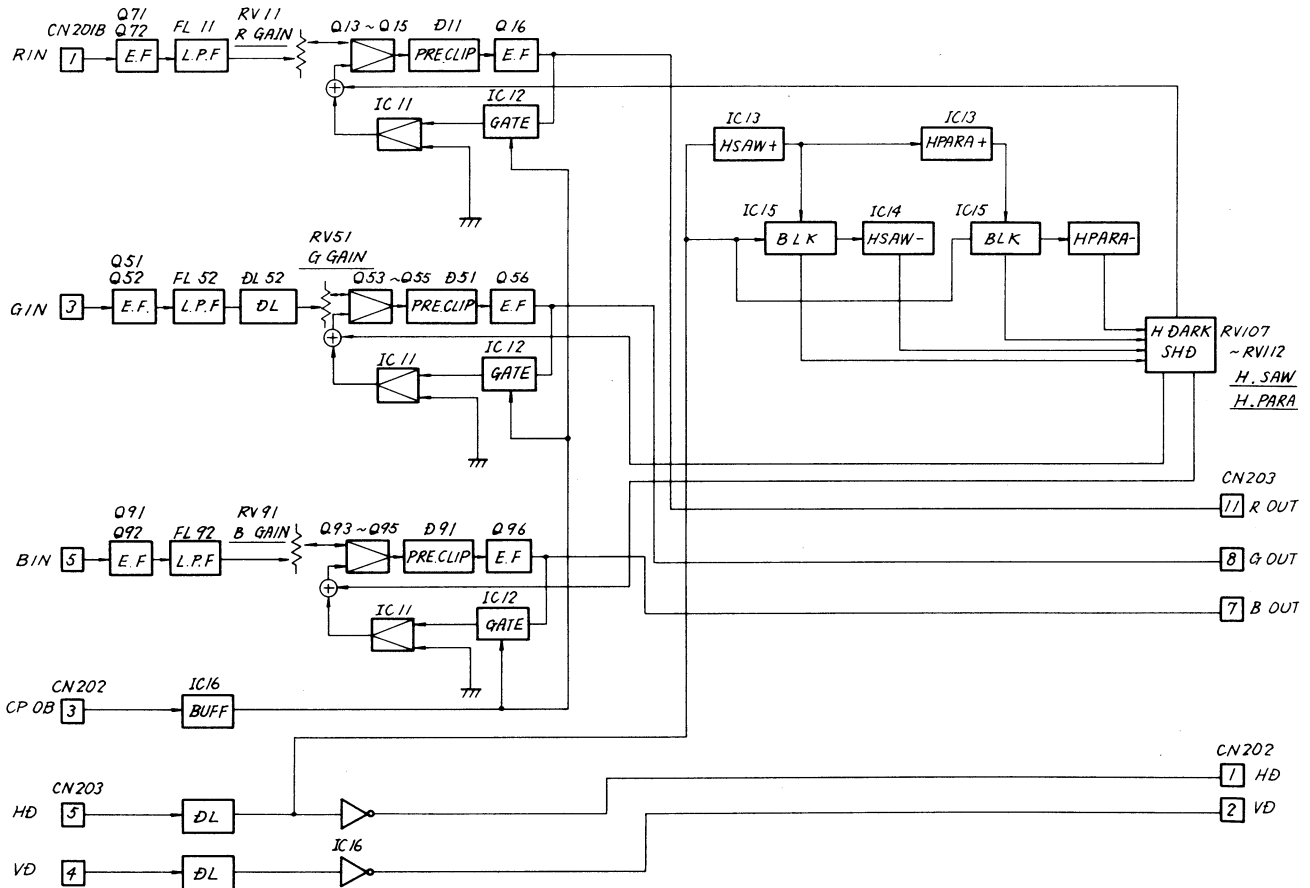
This clock component is eliminated by low pass filters FL11, FL51, AND FL91.

When the 89.9% gray scale chart is shot at 2000lx, 3200k with f 5.6, the signal levels of the low pass filters are approximately 11mV on TP11, 20mV on TP51 and 6mV on TP91. The normal DC voltage is 0 volts. The RGB signals are reversed and amplified by amplifiers Q13-Q15, Q53-Q55 and Q93-Q95, respectively.

The excessive portions of the amplified signals are pre-clipped (approximately 5 times of the rated signal) by D11, D51 and D91. Since the dark current of the CCD is large, the optical black level is detected by the CPOB pulse (the optical black gate pulse which is generated in the SENSOR Block) on pin 3 of CN 202 and the black level is stabilized by the feedback.

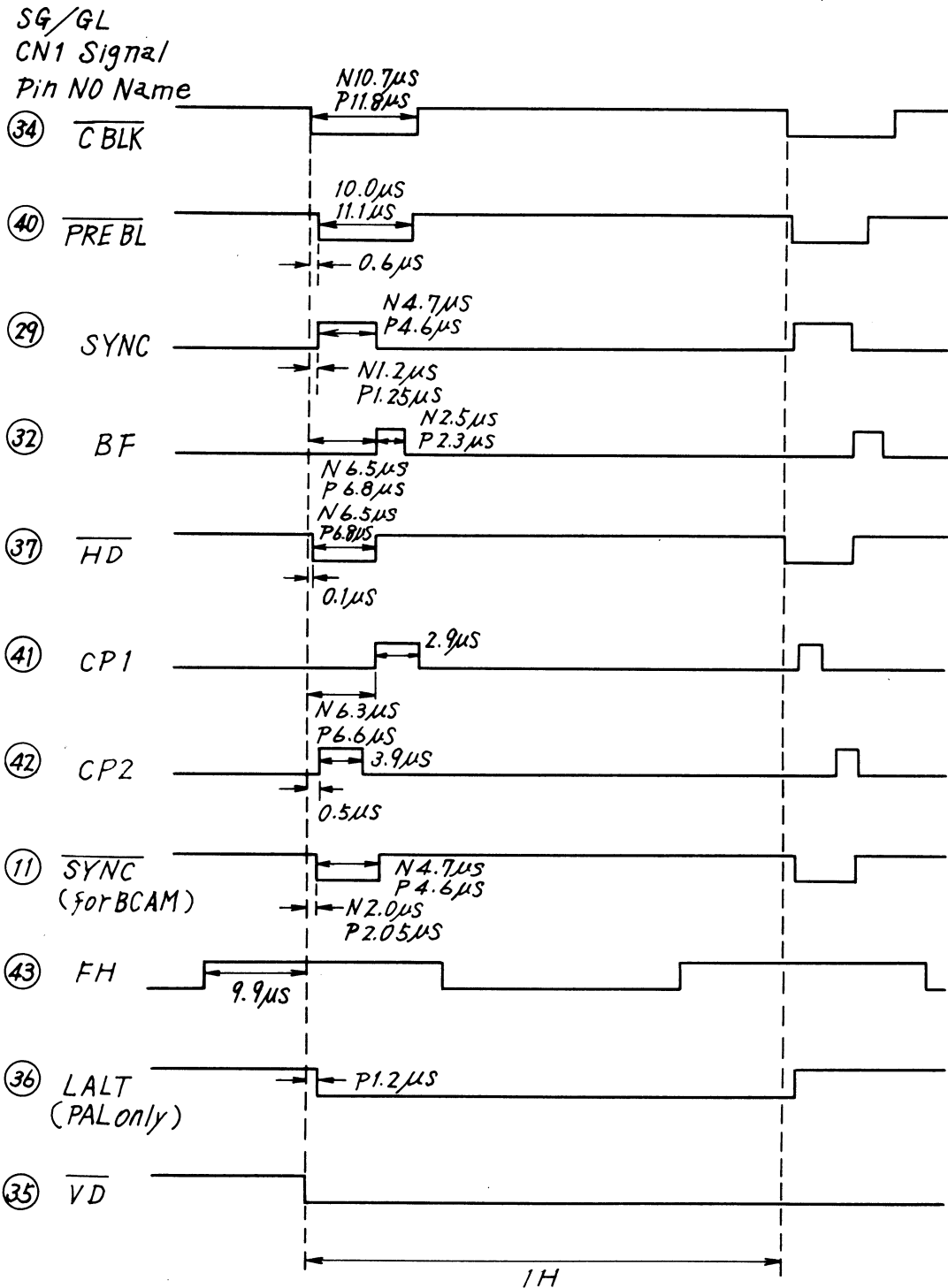
2) SAW, PARA generator

The H SAW and H PARA signal which are used for the dark shading correction, the auto iris weighting and the modulation shading correction are generated.



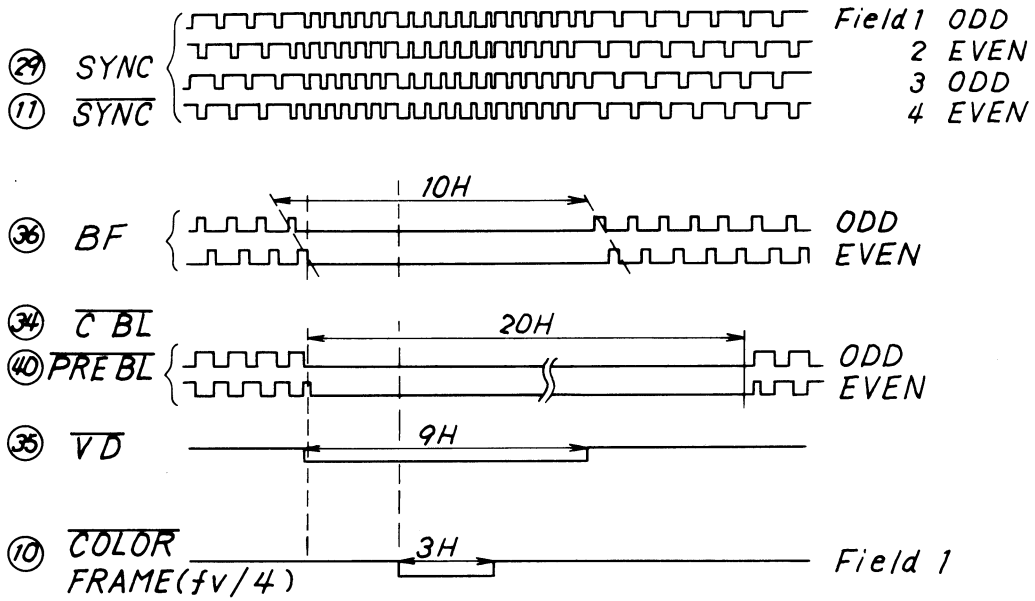
**PRA unit
Block diagram**

SSG Timing chart 1



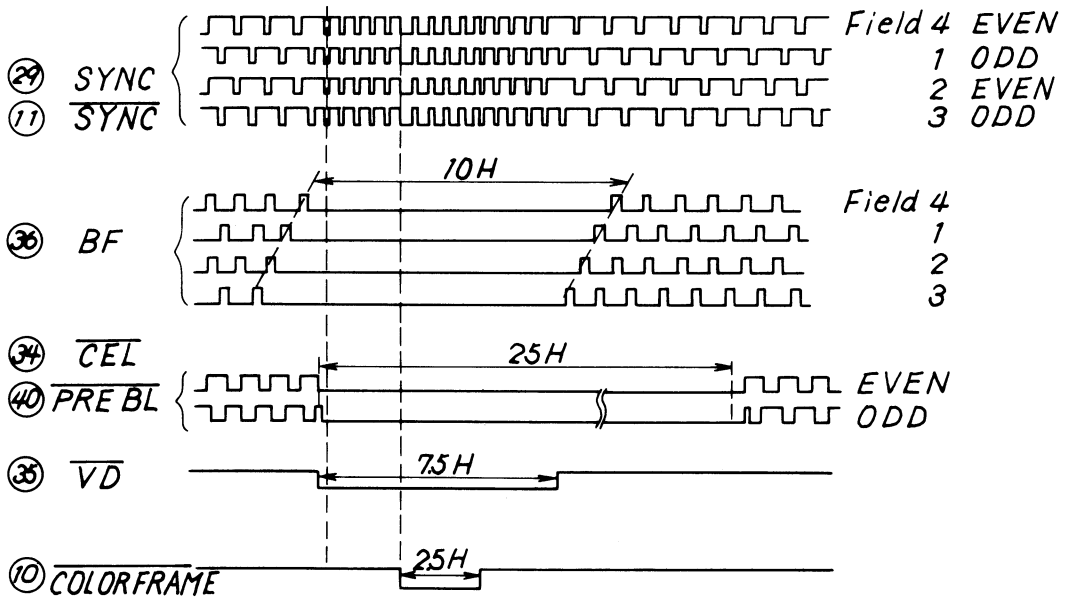
Timing chart(H period)
N:NTSC
P:PAL

SSG Timing chart 2

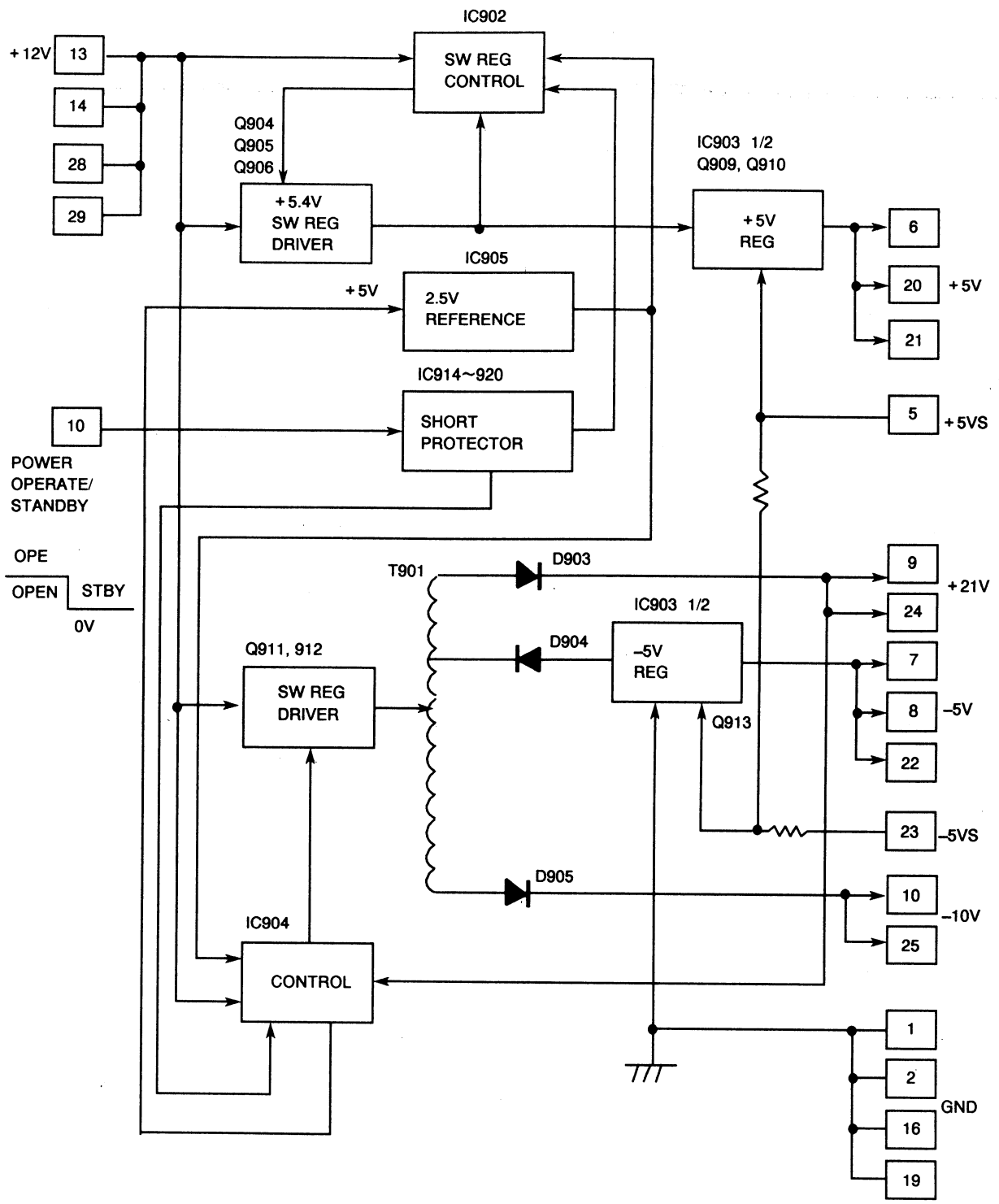


NTSC Timing chart(V period)

SSG Timing chart 3



PAL Timing chart(V period)



**PS unit
Block diagram**

4. ELECTRICAL PARTS LIST

SNS-1(R/G) UNIT

Part Code	Symbol	Description	Remarks	Part Code	Symbol	Description	Remarks
IDM0728	IC501	IC, LOGIC MN74HC4050S					
HDD0159	D501	DIODE DCA010					
HTC0686	Q501	TRANSISTOR 2SC2462C (LC)					
HTC0690	Q502	TRANSISTOR 2SC2620B (QB)					
HTK0159	Q503	TRANSISTOR 2SK302GR					
HTA0334	Q504	TRANSISTOR 2SA1226E4					
HTK0159	Q505	TRANSISTOR 2SK302GR					
HTK0159	Q506	TRANSISTOR 2SK302GR					
HTA0334	Q507	TRANSISTOR 2SA1226E4					
HTC0690	Q508	TRANSISTOR 2SC2620B (QB)					
RME1418	R501	R,METAL 0.1W 22OHM + -5%					
RME1418	R502	R,METAL 0.1W 22OHM + -5%					
RME1418	R503	R,METAL 0.1W 22OHM + -5%					
RME1418	R504	R,METAL 0.1W 22OHM + -5%					
RME1426	R505	R,METAL 0.1W 100OHM + -5%					
RME1468	R506	R,METAL 0.1W 1.0MOHM + -5%					
RME1468	R507	R,METAL 0.1W 1.0MOHM + -5%					
RME1468	R508	R,METAL 0.1W 1.0MOHM + -5%					
RME1468	R509	R,METAL 0.1W 1.0MOHM + -5%					
RME1454	R510	R,METAL 0.1W 22KOHM + -5%					
RME1429	R511	R,METAL 0.1W 180OHM + -5%					
RME1450	R512	R,METAL 0.1W 10KOHM + -5%					
RME1413	R513	R,METAL 0.1W 0OHM					
RME1413	R515	R,METAL 0.1W 0OHM					
RME1426	R517	R,METAL 0.1W 100OHM + -5%					
RME1442	R518	R,METAL 0.1W 2.2KOHM + -5%					
RME1468	R519	R,METAL 0.1W 1.0MOHM + -5%					
RME1442	R520	R,METAL 0.1W 2.2KOHM + -5%					
RME1468	R521	R,METAL 0.1W 1.0MOHM + -5%					
RME1442	R522	R,METAL 0.1W 2.2KOHM + -5%					
RME1442	R523	R,METAL 0.1W 2.2KOHM + -5%					
RME1422	R524	R,METAL 0.1W 47OHM + -5%					
RME1418	R525	R,METAL 0.1W 22OHM + -5%					
RME1418	R526	R,METAL 0.1W 22OHM + -5%					
RME1468	R527	R,METAL 0.1W 1.0MOHM + -5%					
RME1468	R528	R,METAL 0.1W 1.0MOHM + -5%					
RME1426	R529	R,METAL 0.1W 100OHM + -5%					
RME1428	R531	R,METAL 0.1W 1.0MOHM + -5%					
RME1462	R532	R,METAL 0.1W 100KOHM + -5%					
CCG0612	C501	C,CERAMIC 50V 0.1UF + 80-20%					
CCG0612	C502	C,CERAMIC 50V 0.1UF + 80-20%					
CCG0612	C503	C,CERAMIC 50V 0.1UF + 80-20%					
CCG0612	C504	C,CERAMIC 50V 0.1UF + 80-20%					
CCG0295	C505	C,CERAMIC 25V 0.1UF + 80-20%					
CCG0295	C506	C,CERAMIC 25V 0.1UF + 80-20%					
CCG0270	C507	C,CERAMIC 50V 47PF + -5%					
CCG0267	C508	C,CERAMIC 50V 33PF + -5%					
CEU0019	C509	C,AL ELYC 6.3V 47UF + -20%					
CEU0019	C510	C,AL ELYC 6.3V 47UF + -20%					
CCG0295	C511	C,CERAMIC 25V 0.1UF + 80-20%					
CCG0612	C512	C,CERAMIC 50V 0.1UF + 80-20%					
CCG0295	C513	C,CERAMIC 25V 0.1UF + 80-20%					
				CCG0295	C514	Not used	
					C515	C,CERAMIC 25V 0.1UF + 80-20%	
				RNH0057	RV501	VR,METAL RH0622CJ4(22K) (RHLON,H06)	

SNS-1(B) UNIT

Parts Code	Symbol	Description	Remarks
IDM0728	IC601	IC,LOGIC MN74HC4050S	
HDD0159	D601	DIODE DCA010	
HTC0686	Q601	TRANSISTOR 2SC2462C (LC)	
HTC0690	Q602	TRANSISTOR 2SC2620B (QB)	
HTK0159	Q603	TRANSISTOR 2SK302GR	
HTA0334	Q604	TRANSISTOR 2SA1226E4	
HTK0159	Q605	TRANSISTOR 2SK302GR	
HTK0159	Q606	TRANSISTOR 2SK302GR	
HTA0334	Q607	TRANSISTOR 2SA1226E4	
HTC0690	Q608	TRANSISTOR 2SC2620B (QB)	
RME1418	R601	R,METAL 0.1W 22 OHM + -5%	
RME1418	R602	R,METAL 0.1W 22 OHM + -5%	
RME1418	R603	R,METAL 0.1W 22 OHM + -5%	
RME1418	R604	R,METAL 0.1W 22 OHM + -5%	
RME1426	R605	R,METAL 0.1W 100 OHM + -5%	
RME1468	R606	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R607	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R608	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R609	R,METAL 0.1W 1.0 MOHM + -5%	
RME1454	R610	R,METAL 0.1W 22 KOHM + -5%	
RME1429	R611	R,METAL 0.1W 180 OHM + -5%	
RME1450	R612	R,METAL 0.1W 10 KOHM + -5%	
RME1413	R613	R,METAL 0.1W 0 OHM	
RME1413	R615	R,METAL 0.1W 0 OHM	
RME1426	R617	R,METAL 0.1W 100 OHM + -5%	
RME1442	R618	R,METAL 0.1W 2.2 KOHM + -5%	
RME1468	R619	R,METAL 0.1W 1.0 MOHM + -5%	
RME1442	R620	R,METAL 0.1W 2.2 KOHM + -5%	
RME1468	R621	R,METAL 0.1W 1.0 MOHM + -5%	
RME1442	R622	R,METAL 0.1W 2.2 KOHM + -5%	
RME1442	R623	R,METAL 0.1W 2.2 KOHM + -5%	
RME1422	R624	R,METAL 0.1W 47 OHM + -5%	
RME1418	R625	R,METAL 0.1W 22 OHM + -5%	
RME1418	R626	R,METAL 0.1W 22 OHM + -5%	
RME1468	R627	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R628	R,METAL 0.1W 1.0 MOHM + -5%	
RME1426	R629	R,METAL 0.1W 100 OHM + -5%	
RME1468	R631	R,METAL 0.1W 1.0 MOHM + -5%	
RME1462	R632	R,METAL 0.1W 100 KOHM + -5%	
CCG0612	C601	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0612	C602	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0612	C603	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0612	C604	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0295	C605	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C606	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0270	C607	C,CERAMIC 50 V 47 PF + -5%	
CCG0267	C608	C,CERAMIC 50 V 33 PF + -5%	
CEU0019	C609	C,AL ELYC 6.3 V 47 UF + -20%	
CEU0019	C610	C,AL ELYC 6.3 V 47 UF + -20%	
CCG0295	C611	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0612	C612	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0295	C613	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C614	Not used	

Parts Code	Symbol	Description	Remarks
CCG0295	C615	C,CERAMIC 25V 0.1UF + 80-20%	
8522662 G	CN201B	CABLE ASSY DF11-6DS/2P-SAN	
RNH0057	RV501	VR,METAL RH0622CJ4(22K) (RHL0N,H06	

DRV-1 UNIT

Parts Code	Symbol	Description	Remarks
ISM0036	IC101	IC MB621488U	
ISC0001	IC102	IC CXD1250M	
ISM0006	IC103	IC MN5117S (PLL)	
IDM0728	IC104	IC,LOGIC MN74HC4050S	
IPH0010	IC105	IC HA178L15UA	
HDS0582	D101	DIODE 1SV203	
HDS0556	D102	DIODE 1S2835	
	D103	Not used	
	D104	Not used	
HDD0168	D105	DIODE DCC010	
HDS0556	D106	DIODE 1S2835	
HDH0248	D107	DIODE,ZEN HZ9B2L (8.5V~8.9V)	
HTA0268	Q101	TRANSISTOR 2SA1122C (CC)	
HTK0159	Q103	TRANSISTOR 2SK302GR	
RME0912	L101	R,METAL 1/8W 0 OHM	
RME0912	L102	R,METAL 1/8W 0 OHM	
RME0912	L103	R,METAL 1/8W 0 OHM	
RME1462	R101	R,METAL 0.1W 100 KOHM +5%	
RME1462	R102	R,METAL 0.1W 100 KOHM +5%	
RME1462	R103	R,METAL 0.1W 100 KOHM +5%	
RME1450	R104	R,METAL 0.1W 10 KOHM +5%	
RME1450	R105	R,METAL 0.1W 10 KOHM +5%	
RME1439	R106	R,METAL 0.1W 1.2 KOHM +5%	
RME1450	R109	R,METAL 0.1W 10 KOHM +5%	
RME1450	R114	R,METAL 0.1W 10 KOHM +5%	
RME1430	R115	R,METAL 0.1W 220 OHM +5%	
RME1430	R116	R,METAL 0.1W 220 OHM +5%	
RME1438	R117	R,METAL 0.1W 1.0 KOHM +5%	
RME1462	R118	R,METAL 0.1W 100 KOHM +5%	
RME1462	R119	R,METAL 0.1W 100 KOHM +5%	
RME1450	R120	R,METAL 0.1W 10 KOHM +5%	
RME1450	R121	R,METAL 0.1W 10 KOHM +5%	
RME1438	R122	R,METAL 0.1W 1.0 KOHM +5%	
RME1442	R124	R,METAL 0.1W 2.2 KOHM +5%	
RME1438	R125	R,METAL 0.1W 1.0 KOHM +5%	
RME1445	R126	R,METAL 0.1W 3.9 KOHM +5%	
RME1418	R127	R,METAL 0.1W 22 OHM +5%	
RME1413	R128	R,METAL 0.1W 0 OHM	
RME1418	R129	R,METAL 0.1W 22 OHM +5%	
RME1426	R130	R,METAL 0.1W 100 OHM +5%	
RME1418	R131	R,METAL 0.1W 22 OHM +5%	
RME1430	R132	R,METAL 0.1W 220 OHM +5%	
RME1413	R133	R,METAL 0.1W 0 OHM	
RME1451	R134	R,METAL 0.1W 12 KOHM +5%	
RME1449	R135	R,METAL 0.1W 8.2 KOHM +5%	
RME1418	R136	R,METAL 0.1W 22 OHM +5%	
RME1418	R137	R,METAL 0.1W 22 OHM +5%	
CEU0027	C101	C,AL ELYC 35 V 10 UF +20%	
CSS0171	C102	C,TA ELYC 16 V 10 UF +20%	
CEU0023	C103	C,AL ELYC 16 V 22 UF +20%	
CEU0028	C104	C,AL ELYC 35 V 22 UF +20%	
CCG0612	C105	C,CERAMIC 50 V 0.1 UF +80-20%	
CCG0295	C106	C,CERAMIC 25 V 0.1 UF +80-20%	

PAL
NTSC

NTSC
PAL

Parts Code	Symbol	Description	Remarks
CCG0295	C107	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0292	C108	C,CERAMIC 50 V 10000 PF +10%	
CCG0261	C109	C,CERAMIC 50 V 18 PF +5%	
CES0433	C110	C,AL ELYC 16 V 47 UF +20%	
CCG0295	C111	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0255	C112	C,CERAMIC 50 V 10 PF +0.5PF	
CCG0263	C113	C,CERAMIC 50 V 22 PF +5%	
CCG0295	C114	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C121	C,CERAMIC 25 V 0.1 UF +80-20%	
CSM0019	C122	C,TA ELYC 10 V 10 UF +20%	
CCG0289	C123	C,CERAMIC 50 V 3300 PF +10%	
CCG0295	C124	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0270	C127	C,CERAMIC 50 V 47 PF +5%	
CCG0263	C128	C,CERAMIC 50 V 22 PF +5%	
CEU0018	C129	C,AL ELYC 6.3 V 22 UF +20%	
CCG0295	C130	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C131	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C132	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C133	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C134	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C135	C,CERAMIC 25 V 0.1 UF +80-20%	
CEU0027	C136	C,AL ELYC 35 V 10 UF +20%	
CEU0028	C137	C,AL ELYC 35 V 22 UF +20%	
CEU0019	C138	C,AL ELYC 6.3 V 47 UF +20%	
CCG0286	C139	C,CERAMIC 50 V 1000 PF +10%	
4049188D		TERMINAL B-4	
8522662 H	CN9B	CABLE ASSY DF11-14DS/13P-SAN L=160	
8522662 F	CN202B	CABLE ASSY DF11-4DS/4P-SAN L=200	
JBF0053	CN301	CONNECTOR FF4-20-S15	
TLN0040	L105	COIL NL322522-220K (22UH)	
TLL0308	LV1	COIL LC-0315A	
8391000	TP101	TEST POINT IPS-1136 DH PIN	
8391000	TP102	TEST POINT IPS-1136 DH PIN	

FIL UNIT

Parts Code	Symbol	Description	Remarks
IZG0002	IC801	IC GP2L22B	
IZG0002	IC802	IC GP2L22B	
IZG0002	IC803	IC GP2L22B	
RME1450	R801	R,METAL 0.1W 10 KOHM +5%	
RME1444	R802	R,METAL 0.1W 3.3 KOHM +5%	
RME1450	R803	R,METAL 0.1W 10 KOHM +5%	
RME1444	R804	R,METAL 0.1W 3.3 KOHM +5%	
RME1450	R805	R,METAL 0.1W 10 KOHM +5%	
RME1444	R806	R,METAL 0.1W 3.3 KOHM +5%	
CCG0295	C801	C,CERAMIC 25V 0.1 UF +80-20%	
8522662 D	CN11B	CABLE ASSY PHR-5/3P-SAN/2P-SAN L=130	

PRA UNIT

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
ILN0090	IC11	IC,ANALOG NJM064M		RME1446	R53	R,METAL 0.1W 4.7 KOHM + -5%	
IDH1215	IC12	IC,LOGIC HD14053BFP/MC14053BFP		RMR4113	R54	R,METAL 1/16W 1 KOHM + -0.5%	
ILN0066	IC13	IC,ANALOG NJM4560M		RME1463	R55	R,METAL 0.1W 150 KOHM + -5%	
ILN0066	IC14	IC,ANALOG NJM4560M		RMR4163	R56	R,METAL 1/16W 1.8 KOHM + -0.5%	
IDH1215	IC15	IC,LOGIC HD14053BFP/MC14053BFP		RME1443	R57	R,METAL 0.1W 2.7 KOHM + -5%	
IDH1211	IC16	IC,LOGIC HD14049UBFP/MC14049UBFP		RMR4156	R58	R,METAL 1/16W 220 OHM + -0.5%	
HDH0224	D11	DIODE HSM88S (C1)		RME1443	R59	R,METAL 0.1W 2.7 KOHM + -5%	
HDH0224	D51	DIODE HSM88S (C1)		RMR4113	R60	R,METAL 1/16W 1 KOHM + -0.5%	
HDH0224	D91	DIODE HSM88S (C1)		RMR4114	R61	R,METAL 1/16W 2.2 KOHM + -0.5%	
HTA0268	Q11	TRANSISTOR 2SA1122C (CC)		RMR4112	R62	R,METAL 1/16W 390 OHM + -0.5%	
HTC0686	Q12	TRANSISTOR 2SC2462C (LC)		RMR4112	R63	R,METAL 1/16W 390 OHM + -0.5%	
HTA0334	Q13	TRANSISTOR 2SA1226E4		R64	Not used		
HTA0334	Q14	TRANSISTOR 2SA1226E4		RME1442	R65	R,METAL 0.1W 2.2 KOHM + -5%	
HTC0690	Q15	TRANSISTOR 2SC2620B (QB)		RMR4156	R66	R,METAL 1/16W 220 OHM + -0.5%	
HTC0686	Q16	TRANSISTOR 2SC2462C (LC)		RME1450	R67	R,METAL 0.1W 10 KOHM + -5%	
HTA0268	Q51	TRANSISTOR 2SA1122C (CC)		RME1442	R68	R,METAL 0.1W 2.2 KOHM + -5%	
HTC0686	Q52	TRANSISTOR 2SC2462C (LC)		RME1438	R69	R,METAL 0.1W 1.0 KOHM + -5%	
HTA0334	Q53	TRANSISTOR 2SA1226E4		RME1438	R70	R,METAL 0.1W 1.0 KOHM + -5%	
HTA0334	Q54	TRANSISTOR 2SA1226E4		RME1430	R71	R,METAL 0.1W 220 OHM + -5%	
HTC0690	Q55	TRANSISTOR 2SC2620B (QB)		RME1462	R72	R,METAL 0.1W 100 KOHM + -5%	
HTC0686	Q56	TRANSISTOR 2SC2462C (LC)		RME1426	R91	R,METAL 0.1W 100 OHM + -5%	
HTA0268	Q91	TRANSISTOR 2SA1122C (CC)		RME1446	R92	R,METAL 0.1W 4.7 KOHM + -5%	
HTC0686	Q92	TRANSISTOR 2SC2462C (LC)		RME1446	R93	R,METAL 0.1W 4.7 KOHM + -5%	
HTA0334	Q93	TRANSISTOR 2SA1226E4		RMR4113	R94	R,METAL 1/16W 1 KOHM + -0.5%	
HTA0334	Q94	TRANSISTOR 2SA1226E4		RME1463	R95	R,METAL 0.1W 150 KOHM + -5%	
HTC0690	Q95	TRANSISTOR 2SC2620B (QB)		RMR4163	R96	R,METAL 1/16W 1.8 KOHM + -0.5%	
HTC0686	Q96	TRANSISTOR 2SC2462C (LC)		RME1443	R97	R,METAL 0.1W 2.7 KOHM + -5%	
RME1426	R11	R,METAL 0.1W 100 OHM + -5%		RME1443	R98	R,METAL 0.1W 2.7 KOHM + -5%	
RME1446	R12	R,METAL 0.1W 4.7 KOHM + -5%		RME1424	R99	R,METAL 0.1W 68 OHM + -5%	
RME1446	R13	R,METAL 0.1W 4.7 KOHM + -5%		RMR4113	R100	R,METAL 1/16W 1 KOHM + -0.5%	
RMR4113	R14	R,METAL 1/16W 1 KOHM + -0.5%		RMR4114	R101	R,METAL 1/16W 2.2 KOHM + -0.5%	
RME1463	R15	R,METAL 0.1W 150 KOHM + -5%		RMR4112	R102	R,METAL 1/16W 390 OHM + -0.5%	
RMR4163	R16	R,METAL 1/16W 1.8 KOHM + -0.5%		RME1462	R104	R,METAL 0.1W 100 KOHM + -5%	
RME1443	R17	R,METAL 0.1W 2.7 KOHM + -5%		RME1442	R105	R,METAL 0.1W 2.2 KOHM + -5%	
RME1428	R18	R,METAL 0.1W 150 OHM + -5%		RMR4156	R106	R,METAL 1/16W 220 OHM + -0.5%	
RME1443	R19	R,METAL 0.1W 2.7 KOHM + -5%		RME1450	R107	R,METAL 0.1W 10 KOHM + -5%	
RMR4113	R20	R,METAL 1/16W 1 KOHM + -0.5%		RME1442	R108	R,METAL 0.1W 2.2 KOHM + -5%	
RMR4114	R21	R,METAL 1/16W 2.2 KOHM + -0.5%		RME1438	R109	R,METAL 0.1W 1.0 KOHM + -5%	
RMR4112	R22	R,METAL 1/16W 390 OHM + -0.5%		RME1438	R110	R,METAL 0.1W 1.0 KOHM + -5%	
RMR4112	R23	R,METAL 1/16W 390 OHM + -0.5%		RME1430	R111	R,METAL 0.1W 220 OHM + -5%	
R24	Not used			RME1462	R112	R,METAL 0.1W 100 KOHM + -5%	
RME1442	R25	R,METAL 0.1W 2.2 KOHM + -5%		RME1462	R121	R,METAL 0.1W 100 KOHM + -5%	
RMR4156	R26	R,METAL 1/16W 220 OHM + -0.5%		RME1462	R122	R,METAL 0.1W 100 KOHM + -5%	
RME1450	R27	R,METAL 0.1W 10 KOHM + -5%		RME1462	R123	R,METAL 0.1W 100 KOHM + -5%	
RME1442	R28	R,METAL 0.1W 2.2 KOHM + -5%		RME1462	R124	R,METAL 0.1W 100 KOHM + -5%	
RME1438	R29	R,METAL 0.1W 1.0 KOHM + -5%		RME1462	R125	R,METAL 0.1W 100 KOHM + -5%	
RME1438	R30	R,METAL 0.1W 1.0 KOHM + -5%		RME1462	R126	R,METAL 0.1W 100 KOHM + -5%	
RME1426	R31	R,METAL 0.1W 100 OHM + -5%		RME1435	R127	R,METAL 0.1W 560 OHM + -5%	
RME1456	R32	R,METAL 0.1W 33 KOHM + -5%		RME1435	R128	R,METAL 0.1W 560 OHM + -5%	
RME1454	R33	R,METAL 0.1W 22 KOHM + -5%		RME1435	R129	R,METAL 0.1W 560 OHM + -5%	
RME1430	R34	R,METAL 0.1W 220 OHM + -5%		RME1450	R130	R,METAL 0.1W 10 KOHM + -5%	
RME1462	R35	R,METAL 0.1W 100 KOHM + -5%		RME1450	R131	R,METAL 0.1W 10 KOHM + -5%	
RME1426	R51	R,METAL 0.1W 100 OHM + -5%		RMR4143	R132	R,METAL 1/16W 33 KOHM + -0.5%	
RME1446	R52	R,METAL 0.1W 4.7 KOHM + -5%		RMR4139	R133	R,METAL 1/16W 10 KOHM + -0.5%	
				RMR4148	R134	R,METAL 1/16W 47 KOHM + -0.5%	

Parts Code	Symbol	Description				Remarks	Parts Code	Symbol	Description		Remarks
RMR4113	R135	R,METAL	1/16W	1	KOHM + -0.5%		4049188D	TERMINAL	B-4		
RME1449	R136	R,METAL	0.1W	8.2	KOHM + -5%		JBD0041	CN201B	CONNECTOR DF11-6DP-2DSA		
RME1450	R137	R,METAL	0.1W	10	KOHM + -5%		JBD0048	CN202	CONNECTOR DF11-4DP-2DS		
RME1450	R138	R,METAL	0.1W	10	KOHM + -5%		JBD0052	CN203	CONNECTOR DF11-12DP-2DS		
RME1462	R139	R,METAL	0.1W	100	KOHM + -5%		AFL0099	FL11	FIL LC-0410 (12.8MHZ/1KOHM)		
RME1413	R140	R,METAL	0.1W	0	OHM		AFL0099	FL51	FIL LC-0410 (12.8MHZ/1KOHM)		
RMR4139	R141	R,METAL	1/16W	10	KOHM + -0.5%		EDL0010	FL52	DELAY LINE LC-0411 (39NS/1KOHM)		
RME1462	R142	R,METAL	0.1W	100	KOHM + -5%		AFL0099	FL91	FIL LC-0410 (12.8MHZ/1KOHM)		
RME1450	R143	R,METAL	0.1W	10	KOHM + -5%		TLL0258	L11	COIL 160MA 100 UH + -10%		
RME1462	R144	R,METAL	0.1W	100	KOHM + -5%		TLL0258	L12	COIL 160MA 100 UH + -10%		
RME1468	R145	R,METAL	0.1W	1.0	MOHM + -5%		TLL0258	L13	COIL 160MA 100 UH + -10%		
CCG0271	C11	C,CERAMIC	50 V	56	PF + -5%		TLL0258	L14	COIL 160MA 100 UH + -10%		
CCG0295	C12	C,CERAMIC	25 V	0.1	UF + 80-20%		RNE0113	RV11	VR,METAL EVM-7JGA00B23(2K)		
CEU0019	C13	C,AL ELYC	6.3 V	47	UF + -20%		RNE0113	RV51	VR,METAL EVM-7JGA00B23(2K)		
CEU0019	C14	C,AL ELYC	6.3 V	47	UF + -20%		RNE0113	RV91	VR,METAL EVM-7JGA00B23(2K)		
CCG0255	C16	C,CERAMIC	50 V	10	PF + -0.5PF		RNE0115	RV121	VR,METAL EVM-7JGA00B14(10K)		
CSM0021	C17	Not used					RNE0115	RV122	VR,METAL EVM-7JGA00B14(10K)		
CSM0021	C18	C,TA ELYC	16 V	2.2	UF + -20%		RNE0115	RV123	VR,METAL EVM-7JGA00B14(10K)		
CCG0295	C19	C,CERAMIC	25 V	0.1	UF + 80-20%		RNE0115	RV124	VR,METAL EVM-7JGA00B14(10K)		
CCG0295	C20	C,CERAMIC	25 V	0.1	UF + 80-20%		RNE0115	RV125	VR,METAL EVM-7JGA00B14(10K)		
CCG0295	C21	C,CERAMIC	25 V	0.1	UF + 80-20%		RNE0115	RV126	VR,METAL EVM-7JGA00B14(10K)		
CCG0295	C22	C,CERAMIC	25 V	0.1	UF + 80-20%		SSV0227	SW11	SW,SLIDE SSSS2-1-2-A		
CCG0295	C23	C,CERAMIC	25 V	0.1	UF + 80-20%		8391000	TP11	TEST POINT IPS-1136 DH PIN		
CCG0271	C51	C,CERAMIC	50 V	56	PF + -5%		8391000	TP51	TEST POINT IPS-1136 DH PIN		
CCG0295	C52	C,CERAMIC	25 V	0.1	UF + 80-20%		8391000	TP91	TEST POINT IPS-1136 DH PIN		
CEU0019	C53	C,AL ELYC	6.3 V	47	UF + -20%		8391000	TP121	TEST POINT IPS-1136 DH PIN		
CEU0019	C54	C,AL ELYC	6.3 V	47	UF + -20%						
CCG0295	C55	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0259	C56	C,CERAMIC	50 V	15	PF + -5%						
CCG0295	C57	Not used									
CCG0295	C58	C,CERAMIC	25 V	0.1	UF + 80-20%						
CSM0021	C59	C,TA ELYC	16 V	2.2	UF + -20%						
CSM0021	C60	C,TA ELYC	16 V	2.2	UF + -20%						
CCG0295	C61	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0295	C62	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0274	C91	C,CERAMIC	50 V	100	PF + -5%						
CCG0295	C92	C,CERAMIC	25 V	0.1	UF + 80-20%						
CEU0019	C93	C,AL ELYC	6.3 V	47	UF + -20%						
CEU0019	C94	C,AL ELYC	6.3 V	47	UF + -20%						
CCG0295	C95	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0255	C96	C,CERAMIC	50 V	10	PF + -0.5PF						
CCG0269	C97	C,CERAMIC	50 V	39	PF + -5%						
CSM0021	C98	C,TA ELYC	16 V	2.2	UF + -20%						
CSM0021	C99	C,TA ELYC	16 V	2.2	UF + -20%						
CCG0295	C100	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0295	C101	C,CERAMIC	25 V	0.1	UF + 80-20%						
CEU0019	C121	C,AL ELYC	6.3 V	47	UF + -20%						
CQE0179	C122	C,PLASTIC	50 V	1000	PF + -10%						
CQE0198	C123	C,PLASTIC	50 V	2200	PF + -10%						
CCG0295	C124	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0295	C125	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0295	C126	C,CERAMIC	25 V	0.1	UF + 80-20%						
CEU0019	C127	C,AL ELYC	6.3 V	47	UF + -20%						
CCG0271	C129	C,CERAMIC	50 V	56	PF + -5%						
CCG0295	C130	C,CERAMIC	25 V	0.1	UF + 80-20%						
CCG0275	C131	C,CERAMIC	50 V	68	PF + -5%						

PRC UNIT

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
IDH1215	IC151	IC,LOGIC HD14053BFP/MC14053BFP		RME1463	R191	R,METAL 0.1W 150 KOHM + -5%	
ILD0102	IC152	IC,ANALOG DBM2115AFP		RME1465	R192	R,METAL 0.1W 330 KOHM + -5%	
ILN0094	IC153	IC,ANALOG NJM062M		RME1464	R193	R,METAL 0.1W 220 KOHM + -5%	
IDH1215	IC191	IC,LOGIC HD14053BFP/MC14053BFP		RME1438	R194	R,METAL 0.1W 1.0 KOHM + -5%	
ILD0102	IC192	IC,ANALOG DBM2115AFP		RME1460	R197	R,METAL 0.1W 68 KOHM + -5%	
ILN0094	IC193	IC,ANALOG NJM062M		RME1460	R198	R,METAL 0.1W 68 KOHM + -5%	
IDH1215	IC231	IC,LOGIC HD14053BFP/MC14053BFP		RMR4143	R199	R,METAL 1/16W 33 KOHM + -0.5%	
ILD0102	IC232	IC,ANALOG DBM2115AFP		RMR4148	R200	R,METAL 1/16W 47 KOHM + -0.5%	
ILN0094	IC233	IC,ANALOG NJM062M		RMR4143	R201	R,METAL 1/16W 33 KOHM + -0.5%	
IDH1203	IC301	IC,LOGIC HD14001BFP/MC14001BFP		RMR4137	R202	R,METAL 1/16W 820 OHM + -0.5%	
ILN0094	IC302	IC,ANALOG NJM062M		RMR4148	R203	R,METAL 1/16W 47 KOHM + -0.5%	
HDD0167	D271	DIODE DCB010		RME1450	R204	R,METAL 0.1W 10 KOHM + -5%	
HDD0167	D273	DIODE DCB010		RME1464	R205	R,METAL 0.1W 220 KOHM + -5%	
HTK0126	Q151	TRANSISTOR 2SK443-AJ6		RME1462	R206	R,METAL 0.1W 100 KOHM + -5%	
HTK0126	Q152	TRANSISTOR 2SK443-AJ6		RME1450	R207	R,METAL 0.1W 10 KOHM + -5%	
HTK0126	Q191	TRANSISTOR 2SK443-AJ6		RME1450	R208	R,METAL 0.1W 10 KOHM + -5%	
HTK0126	Q192	TRANSISTOR 2SK443-AJ6		RME1467	R209	R,METAL 0.1W 680 KOHM + -5%	
HTK0126	Q231	TRANSISTOR 2SK443-AJ6		RME1467	R210	R,METAL 0.1W 680 KOHM + -5%	
HTK0126	Q232	TRANSISTOR 2SK443-AJ6		RME1453	R211	R,METAL 0.1W 18 KOHM + -5%	
HTC0686	Q271	TRANSISTOR 2SC2462C (LC)		RME1462	R212	R,METAL 0.1W 100 KOHM + -5%	
HTA0268	Q272	TRANSISTOR 2SA1122C (CC)		RME1413	R213	R,METAL 0.1W 0 OHM	
HTA0268	Q273	TRANSISTOR 2SA1122C (CC)			R214	Not used	
HTA0268	Q274	TRANSISTOR 2SA1122C (CC)		RME1432	R215	R,METAL 0.1W 330 OHM + -5%	
HTC0590	Q275	TRANSISTOR 2SC1621B4			R216	Not used	
HTD0161	Q276	TRANSISTOR DTC124EK		RME1463	R231	R,METAL 0.1W 150 KOHM + -5%	
HTD0160	Q277	TRANSISTOR DTA124EK		RME1465	R232	R,METAL 0.1W 330 KOHM + -5%	
HTD0161	Q278	TRANSISTOR DTC124EK		RME1464	R233	R,METAL 0.1W 220 KOHM + -5%	
HTD0160	Q279	TRANSISTOR DTA124EK		RME1438	R234	R,METAL 0.1W 1.0 KOHM + -5%	
HTD0161	Q280	TRANSISTOR DTC124EK		RME1413	R235	R,METAL 0.1W 0 OHM	
HTD0160	Q301	TRANSISTOR DTA124EK		RMR4143	R236	R,METAL 1/16W 33 KOHM + -0.5%	
HTD0161	Q302	TRANSISTOR DTC124EK		RMR4143	R237	R,METAL 1/16W 33 KOHM + -0.5%	
RME1463	R151	R,METAL 0.1W 150 KOHM + -5%		RMR4148	R238	R,METAL 1/16W 47 KOHM + -0.5%	
RME1465	R152	R,METAL 0.1W 330 KOHM + -5%		RMR4143	R239	R,METAL 1/16W 33 KOHM + -0.5%	
RME1464	R153	R,METAL 0.1W 220 KOHM + -5%		RMR4137	R240	R,METAL 1/16W 820 OHM + -0.5%	
RME1438	R154	R,METAL 0.1W 1.0 KOHM + -5%		RMR4148	R241	R,METAL 1/16W 47 KOHM + -0.5%	
RMR4143	R155	R,METAL 1/16W 33 KOHM + -0.5%		RME1450	R242	R,METAL 0.1W 10 KOHM + -5%	
RME1413	R156	R,METAL 0.1W 0 OHM		RME1464	R243	R,METAL 0.1W 220 KOHM + -5%	
RMR4143	R157	R,METAL 1/16W 33 KOHM + -0.5%		RME1462	R244	R,METAL 0.1W 100 KOHM + -5%	
RMR4148	R158	R,METAL 1/16W 47 KOHM + -0.5%		RME1450	R245	R,METAL 0.1W 10 KOHM + -5%	
RMR4143	R159	R,METAL 1/16W 33 KOHM + -0.5%		RME1450	R246	R,METAL 0.1W 10 KOHM + -5%	
RMR4137	R160	R,METAL 1/16W 820 OHM + -0.5%		RME1467	R247	R,METAL 0.1W 680 KOHM + -5%	
RMR4148	R161	R,METAL 1/16W 47 KOHM + -0.5%		RME1467	R248	R,METAL 0.1W 680 KOHM + -5%	
RME1450	R162	R,METAL 0.1W 10 KOHM + -5%		RME1453	R249	R,METAL 0.1W 18 KOHM + -5%	
RME1464	R163	R,METAL 0.1W 220 KOHM + -5%			R250	Not used	
RME1462	R164	R,METAL 0.1W 100 KOHM + -5%		RME1432	R251	R,METAL 0.1W 330 OHM + -5%	
RME1450	R165	R,METAL 0.1W 10 KOHM + -5%			R252	Not used	
RME1450	R166	R,METAL 0.1W 10 KOHM + -5%		RME1433	R271	R,METAL 0.1W 390 OHM + -5%	
RME1467	R167	R,METAL 0.1W 680 KOHM + -5%		RME1446	R272	R,METAL 0.1W 4.7 KOHM + -5%	
RME1467	R168	R,METAL 0.1W 680 KOHM + -5%		RME1450	R273	R,METAL 0.1W 10 KOHM + -5%	
RME1453	R169	R,METAL 0.1W 18 KOHM + -5%		RME1443	R274	R,METAL 0.1W 2.7 KOHM + -5%	
RME1444	R170	R,METAL 0.1W 3.3 KOHM + -5%		RME1443	R275	R,METAL 0.1W 2.7 KOHM + -5%	
	R171	Not used		RME1414	R276	R,METAL 0.1W 10 OHM + -5%	
RME1432	R172	R,METAL 0.1W 330 OHM + -5%		RME1452	R277	R,METAL 0.1W 15 KOHM + -5%	
	R173	Not used		RME1450	R278	R,METAL 0.1W 10 KOHM + -5%	
				RME1454	R279	R,METAL 0.1W 22 KOHM + -5%	
				RME1457	R280	R,METAL 0.1W 39 KOHM + -5%	

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
RME1450	R281	R,METAL 0.1W 10 KOHM + -5%		CCG0295	C236	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1458	R282	R,METAL 0.1W 47 KOHM + -5%		CEU0018	C237	C,AL ELYC 6.3 V 22 UF + -20%	
RME1458	R283	R,METAL 0.1W 47 KOHM + -5%		CEU0022	C238	C,AL ELYC 16 V 10 UF + -20%	
RME1462	R301	R,METAL 0.1W 100 KOHM + -5%		CCG0295	C239	C,CERAMIC 25 V 0.1 UF + 80-20%	
RMR4166	R302	R,METAL 1/16W 4.7 KOHM + -0.5%		CEU0019	C240	C,AL ELYC 6.3 V 47 UF + -20%	
RMR4166	R303	R,METAL 1/16W 4.7 KOHM + -0.5%		CCG0295	C241	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1450	R305	R,METAL 0.1W 10 KOHM + -5%		CCG0295	C242	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1442	R306	R,METAL 0.1W 2.2 KOHM + -5%		CQE0198	C271	C,PLASTIC 50 V 2200 PF + -10%	
RME1450	R308	R,METAL 0.1W 10 KOHM + -5%		CEU0018	C272	C,AL ELYC 6.3 V 22 UF + -20%	
RME1447	R309	R,METAL 0.1W 5.6 KOHM + -5%		CEU0019	C273	C,AL ELYC 6.3 V 47 UF + -20%	
RME1439	R310	R,METAL 0.1W 1.2 KOHM + -5%		CCG0295	C274	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1449	R311	R,METAL 0.1W 8.2 KOHM + -5%		CCG0295	C275	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1462	R313	R,METAL 0.1W 100 KOHM + -5%		CCG0295	C276	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1462	R314	R,METAL 0.1W 100 KOHM + -5%					
RMR4139	R315	R,METAL 1/16W 10 KOHM + -0.5%		CCG0269	C278	C,CERAMIC 50 V 39 PF + -5%	
RMR4114	R316	R,METAL 1/16W 2.2 KOHM + -0.5%		CCG0295	C301	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1462	R317	R,METAL 0.1W 100 KOHM + -5%		CEU0019	C302	C,AL ELYC 6.3 V 47 UF + -20%	
				CEU0018	C303	C,AL ELYC 6.3 V 22 UF + -20%	
CEU0022	C151	C,AL ELYC 16 V 10 UF + -20%		CCG0295	C304	C,CERAMIC 25 V 0.1 UF + 80-20%	
CSM0021	C152	C,TA ELYC 16 V 2.2 UF + -20%		CCG0295	C305	C,CERAMIC 25 V 0.1 UF + 80-20%	
CEU0029	C153	C,AL ELYC 50 V 1 UF + -20%		CCG0295	C306	C,CERAMIC 25 V 0.1 UF + 80-20%	
CEA0022	C154	C,AL ELYC 50 V 1 UF + -20%		CEU0026	C307	C,AL ELYC 35 V 4.7 UF + -20%	
CEU0019	C155	C,AL ELYC 6.3 V 47 UF + -20%					
CCG0295	C156	C,CERAMIC 25 V 0.1 UF + 80-20%		JBX2212	CN151	CONNECTOR 173278-3 (50P,CAP ASSY-H)	
CEU0018	C157	C,AL ELYC 6.3 V 22 UF + -20%					
CEU0022	C158	C,AL ELYC 16 V 10 UF + -20%		TLL0258	L151	COIL 160MA 100 UH + -10%	
CCG0295	C159	C,CERAMIC 25 V 0.1 UF + 80-20%		TLL0258	L152	COIL 160MA 100 UH + -10%	
CEU0019	C160	C,AL ELYC 6.3 V 47 UF + -20%		TLL0258	L153	COIL 160MA 100 UH + -10%	
CCG0295	C161	C,CERAMIC 25 V 0.1 UF + 80-20%					
CCG0295	C162	C,CERAMIC 25 V 0.1 UF + 80-20%		RNS0017	RV151	VR,METAL ST-4G 10 KOHM	
CCG0295	C163	C,CERAMIC 25 V 0.1 UF + 80-20%		RNS0017	RV152	VR,METAL ST-4G 10 KOHM	
CCG0295	C164	C,CERAMIC 25 V 0.1 UF + 80-20%		RNE0113	RV153	VR,METAL EVM-7JGA00B23(2K)	
CCG0295	C165	C,CERAMIC 25 V 0.1 UF + 80-20%		RNE0115	RV154	VR,METAL EVM-7JGA00B14(10K)	
CCG0269	C166	C,CERAMIC 50 V 39 PF + -5%		RNS0017	RV155	VR,METAL ST-4G 10 KOHM	
CEU0022	C191	C,AL ELYC 16 V 10 UF + -20%			RV156	Not used	
CSM0021	C192	C,TA ELYC 16 V 2.2 UF + -20%		RNS0017	RV157	VR,METAL ST-4G 10 KOHM	
CEU0029	C193	C,AL ELYC 50 V 1 UF + -20%		RNE0113	RV158	VR,METAL EVM-7JGA00B23(2K)	
CEU0029	C194	C,AL ELYC 50 V 1 UF + -20%		RNE0115	RV159	VR,METAL EVM-7JGA00B14(10K)	
CEU0019	C195	C,AL ELYC 6.3 V 47 UF + -20%		RNS0017	RV160	VR,METAL ST-4G 10 KOHM	
CCG0295	C196	C,CERAMIC 25 V 0.1 UF + 80-20%		RNS0017	RV161	VR,METAL ST-4G 10 KOHM	
CEU0018	C197	C,AL ELYC 6.3 V 22 UF + -20%		RNE0113	RV162	VR,METAL EVM-7JGA00B23(2K)	
CEU0022	C198	C,AL ELYC 16 V 10 UF + -20%		RNE0115	RV163	VR,METAL EVM-7JGA00B14(10K)	
CCG0295	C199	C,CERAMIC 25 V 0.1 UF + 80-20%		RNE0111	RV164	VR,METAL EVM-7JGA00B52(500)	
CEU0019	C200	C,AL ELYC 6.3 V 47 UF + -20%		RNE0113	RV165	VR,METAL EVM-7JGA00B23(2K)	
CCG0295	C201	C,CERAMIC 25 V 0.1 UF + 80-20%					
CCG0295	C202	C,CERAMIC 25 V 0.1 UF + 80-20%		SSV0253	SW271	SW,SLIDE SSSS2-1-2-B	
	C203	Not used					
CCG0295	C204	C,CERAMIC 25 V 0.1 UF + 80-20%		8391000	TP151	TEST POINT IPS-1136 DH PIN	
CCG0295	C205	C,CERAMIC 25 V 0.1 UF + 80-20%		8391000	TP191	TEST POINT IPS-1136 DH PIN	
CCG0295	C206	C,CERAMIC 25 V 0.1 UF + 80-20%		8391000	TP231	TEST POINT IPS-1136 DH PIN	
CCG0269	C207	C,CERAMIC 50 V 39 PF + -5%		8391000	TP271	TEST POINT IPS-1136 DH PIN	
				8391000	TP301	TEST POINT IPS-1136 DH PIN	
CEU0022	C231	C,AL ELYC 16 V 10 UF + -20%					
CSM0021	C232	C,TA ELYC 16 V 2.2 UF + -20%					
CEU0029	C233	C,AL ELYC 50 V 1 UF + -20%					
CEU0029	C234	C,AL ELYC 50 V 1 UF + -20%					
CEU0019	C235	C,AL ELYC 6.3 V 47 UF + -20%					

DTL UNIT

Parts Code	Symbol	Description	Remarks
ILD0103	IC401	IC,ANALOG DBM2116AFP	
ILD0105	IC402	IC,ANALOG DBM2118AFP	
ILC0092	IC403	IC,ANALOG CXL5504M	NTSC
ILC0094	IC403	IC,ANALOG CXL5506M	PAL
ILC0092	IC404	IC,ANALOG CXL5504M	NTSC
ILC0094	IC404	IC,ANALOG CXL5506M	PAL
ILC0092	IC405	IC,ANALOG CXL5504M	NTSC
ILC0094	IC405	IC,ANALOG CXL5506M	PAL
ILC0092	IC406	IC,ANALOG CXL5504M	NTSC
ILC0094	IC406	IC,ANALOG CXL5506M	PAL
ILD0104	IC407	IC,ANALOG DBM2117AFP	
ILD0101	IC408	IC,ANALOG DBM2114AFP	
HDD0159	D402	DIODE DCA010	
HDD0159	D403	DIODE DCA010	
HTC0807	Q401	TRANSISTOR 2SC2462C / 2SC2412KR	
HTC0807	Q402	TRANSISTOR 2SC2462C / 2SC2412KR	
HTC0807	Q403	TRANSISTOR 2SC2462C / 2SC2412KR	
HTC0807	Q404	TRANSISTOR 2SC2462C / 2SC2412KR	
HTD0161	Q405	TRANSISTOR DTC124EK	
HTC0807	Q406	TRANSISTOR 2SC2462C / 2SC2412KR	
HTA0268	Q407	TRANSISTOR 2SA1122C (CC)	
RME1413	J401	R,METAL 0.1W 0 OHM	PAL
RME1413	J402	R,METAL 0.1W 0 OHM	
RME1413	J403	R,METAL 0.1W 0 OHM	
RME1413	J404	R,METAL 0.1W 0 OHM	
RME1413	J405	R,METAL 0.1W 0 OHM	PAL
RME1413	R351	R,METAL 0.1W 0 OHM	
RME1450	R354	R,METAL 0.1W 10 KOHM + -5%	
RME1440	R355	R,METAL 0.1W 1.5 KOHM + -5%	
RME1440	R356	R,METAL 0.1W 1.5 KOHM + -5%	
RME1434	R357	R,METAL 0.1W 470 OHM + -5%	
RME1441	R358	R,METAL 0.1W 1.8 KOHM + -5%	
RME1430	R359	R,METAL 0.1W 220 OHM + -5%	
RME1441	R360	R,METAL 0.1W 1.8 KOHM + -5%	
RME1430	R361	R,METAL 0.1W 220 OHM + -5%	
RME1441	R362	R,METAL 0.1W 1.8 KOHM + -5%	
RME1430	R363	R,METAL 0.1W 220 OHM + -5%	
RME1450	R364	R,METAL 0.1W 10 KOHM + -5%	
RME1446	R371	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R372	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R373	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R374	R,METAL 0.1W 4.7 KOHM + -5%	
RME1468	R375	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R376	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R377	R,METAL 0.1W 1.0 MOHM + -5%	
RME1468	R378	R,METAL 0.1W 1.0 MOHM + -5%	
RME1430	R379	R,METAL 0.1W 220 OHM + -5%	
RME1430	R380	R,METAL 0.1W 220 OHM + -5%	
RME1454	R382	R,METAL 0.1W 22 KOHM + -5%	
RME1413	R383	R,METAL 0.1W 0 OHM	
RME1438	R384	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R385	R,METAL 0.1W 1.0 KOHM + -5%	
RME1433	R401	R,METAL 0.1W 390 OHM + -5%	NTSC
RME1438	R401	R,METAL 0.1W 1.0 KOHM + -5%	PAL
RME1413	R402	R,METAL 0.1W 1.0 KOHM + -5%	

Parts Code	Symbol	Description	Remarks
RME1433	R403	R,METAL 0.1W 390 OHM + -5%	NTSC
RME1438	R403	R,METAL 0.1W 1.0 KOHM + -5%	PAL
	R404	Not used	
RME1435	R405	R,METAL 0.1W 560 OHM + -5%	
RME1443	R406	R,METAL 0.1W 2.7 KOHM + -5%	
RME1447	R407	R,METAL 0.1W 5.6 KOHM + -5%	
RME1438	R408	R,METAL 0.1W 1.0 KOHM + -5%	
RME1449	R409	R,METAL 0.1W 8.2 KOHM + -5%	
RME1434	R410	R,METAL 0.1W 1.0 KOHM + -5%	NTSC
RME1435	R410	R,METAL 0.1W 560 OHM + -5%	PAL
RME1435	R411	R,METAL 0.1W 470 OHM + -5%	PAL
RME1438	R412	R,METAL 0.1W 1.0 KOHM + -5%	NTSC
RME1431	R412	R,METAL 0.1W 330 OHM + -5%	PAL
RME1448	R413	R,METAL 0.1W 6.8 KOHM + -5%	NTSC
RME1434	R414	R,METAL 0.1W 1.0 KOHM + -5%	NTSC
RME1435	R414	R,METAL 0.1W 560 OHM + -5%	PAL
RME1435	R415	R,METAL 0.1W 470 OHM + -5%	PAL
RME1438	R416	R,METAL 0.1W 1.0 KOHM + -5%	NTSC
RME1431	R416	R,METAL 0.1W 330 OHM + -5%	PAL
RME1433	R417	R,METAL 0.1W 390 OHM + -5%	NTSC
RME1438	R417	R,METAL 0.1W 1.0 KOHM + -5%	PAL
RME1433	R418	R,METAL 0.1W 390 OHM + -5%	NTSC
RME1438	R418	R,METAL 0.1W 1.0 KOHM + -5%	PAL
RME1446	R419	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R420	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R421	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R422	R,METAL 0.1W 4.7 KOHM + -5%	
RME1446	R423	R,METAL 0.1W 4.7 KOHM + -5%	
RME1450	R424	R,METAL 0.1W 10 KOHM + -5%	
RME1441	R425	R,METAL 0.1W 1.8 KOHM + -5%	
RME1438	R431	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R432	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R433	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R434	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R435	R,METAL 0.1W 1.0 KOHM + -5%	
RME1438	R436	R,METAL 0.1W 1.0 KOHM + -5%	
RMR4142	R438	R,METAL 1/16W 22 KOHM + -0.5%	
RMR4117	R439	R,METAL 1/16W 2.7 KOHM + -0.5%	
RME1430	R440	R,METAL 0.1W 220 OHM + -5%	
RMR4142	R442	R,METAL 1/16W 22 KOHM + -0.5%	
RMR4117	R443	R,METAL 1/16W 2.7 KOHM + -0.5%	
RME1430	R444	R,METAL 0.1W 220 OHM + -5%	
RMR4142	R446	R,METAL 1/16W 22 KOHM + -0.5%	
RMR4117	R447	R,METAL 1/16W 2.7 KOHM + -0.5%	
RME1430	R448	R,METAL 0.1W 220 OHM + -5%	
RMR4117	R449	R,METAL 1/16W 2.7 KOHM + -0.5%	
RMR4117	R450	R,METAL 1/16W 2.7 KOHM + -0.5%	
RMR4117	R451	R,METAL 1/16W 2.7 KOHM + -0.5%	
RME1413	R452	R,METAL 0.1W 0 OHM	
RME1413	R453	R,METAL 0.1W 0 OHM	
RME1413	R454	R,METAL 0.1W 0 OHM	
RME1426	R460	R,METAL 0.1W 100 OHM + -5%	
RME1442	R461	R,METAL 0.1W 2.2 KOHM + -5%	
RME1442	R462	R,METAL 0.1W 2.2 KOHM + -5%	
RME1438	R464	R,METAL 0.1W 1.0 KOHM + -5%	

Parts Code	Symbol	Description	Remarks	PartS Code	Symbol	Description	Remarks
RME1438	R465	R,METAL 0.1W 1.0 KOHM + -5%		CSM0021	C443	C,TA ELYC 16 V 2.2 UF + -20%	
RME1434	R466	R,METAL 0.1W 470 OHM + -5%		CEU0022	C444	C,AL ELYC 16 V 10 UF + -20%	
RME1462	R467	R,METAL 0.1W 100 KOHM + -5%		CCG0295	C445	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1438	R468	R,METAL 0.1W 1.0 KOHM + -5%		CSS0168	C451	C,TA ELYC 16 V 1 UF + -20%	
RME1438	R469	R,METAL 0.1W 1.0 KOHM + -5%		CSS0168	C452	C,TA ELYC 16 V 1 UF + -20%	
RME1438	R470	R,METAL 0.1W 1.0 KOHM + -5%		CSS0168	C453	C,TA ELYC 16 V 1 UF + -20%	
RME1444	R471	R,METAL 0.1W 3.3 KOHM + -5%		CEU0019	C455	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1446	R472	R,METAL 0.1W 4.7 KOHM + -5%		CCG0295	C456	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1446	R473	R,METAL 0.1W 4.7 KOHM + -5%		CCG0295	C457	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1450	R474	R,METAL 0.1W 10 KOHM + -5%		CCG0295	C461	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1448	R475	R,METAL 0.1W 6.8 KOHM + -5%		CEU0019	C464	C,AL ELYC 6.3 V 47 UF + -20%	
RME1450	R476	R,METAL 0.1W 10 KOHM + -5%		CCG0295	C465	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1450	R477	R,METAL 0.1W 10 KOHM + -5%		CEU0018	C466	C,AL ELYC 6.3 V 22 UF + -20%	
RME1462	R479	R,METAL 0.1W 100 KOHM + -5%		CEU0018	C467	C,AL ELYC 6.3 V 22 UF + -20%	
RME1462	R480	R,METAL 0.1W 100 KOHM + -5%		CEU0018	C468	C,AL ELYC 6.3 V 22 UF + -20%	
RME1442	R481	R,METAL 0.1W 2.2 KOHM + -5%		CEU0018	C469	C,AL ELYC 6.3 V 22 UF + -20%	
RME1438	R483	R,METAL 0.1W 1.0 KOHM + -5%		CSS0168	C470	C,TA ELYC 16 V 1 UF + -20%	
RME1452	R484	R,METAL 0.1W 15 KOHM + -5%		CCG0295	C471	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1450	R485	R,METAL 0.1W 10 KOHM + -5%		CSM0021	C472	C,TA ELYC 16 V 2.2 UF + -20%	
RME1450	R486	R,METAL 0.1W 10 KOHM + -5%		CCG0292	C473	C,CERAMIC 50 V 10000 PF + -10%	
RME1450	R487	R,METAL 0.1W 10 KOHM + -5%		CCG0292	C474	C,CERAMIC 50 V 10000 PF + -10%	
RME1447	R488	R,METAL 0.1W 5.6 KOHM + -5%		CSS0168	C475	C,TA ELYC 16 V 1 UF + -20%	
RME1426	R489	R,METAL 0.1W 100 OHM + -5%		CCG0295	C476	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1446	R490	R,METAL 0.1W 4.7 KOHM + -5%		CSM0021	C477	C,TA ELYC 16 V 2.2 UF + -20%	
RME1450	R491	R,METAL 0.1W 10 KOHM + -5%		CCG0292	C478	C,CERAMIC 50 V 10000 PF + -10%	
RME1454	R492	R,METAL 0.1W 22 KOHM + -5%		CSS0168	C479	C,TA ELYC 16 V 1 UF + -20%	
RME1426	R493	R,METAL 0.1W 100 OHM + -5%		CCG0295	C480	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1426	R494	R,METAL 0.1W 100 OHM + -5%		CSM0021	C481	C,TA ELYC 16 V 2.2 UF + -20%	
RME1462	R495	R,METAL 0.1W 100 KOHM + -5%		CCG0292	C482	C,CERAMIC 50 V 10000 PF + -10%	
RME1413	R496	R,METAL 0.1W 0 OHM		CCG0292	C483	C,CERAMIC 50 V 10000 PF + -10%	
RME1451	R497	R,METAL 0.1W 12 KOHM + -5%		CCG0250	C484	C,CERAMIC 50 V 5 PF + -0.25PF	
CEU0019	C401	C,AL ELYC 6.3 V 47 UF + -20%		CSS0168	C485	C,TA ELYC 16 V 1 UF + -20%	
CEU0019	C402	C,AL ELYC 6.3 V 47 UF + -20%		CCG0295	C486	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C403	C,CERAMIC 25 V 0.1 UF + 80-20%		CSM0021	C487	C,TA ELYC 16 V 2.2 UF + -20%	
CCG0295	C404	C,CERAMIC 25 V 0.1 UF + 80-20%		CCG0292	C488	C,CERAMIC 50 V 10000 PF + -10%	
CCG0263	C405	C,CERAMIC 50 V 22 PF + -5%		CCG0250	C489	C,CERAMIC 50 V 5 PF + -0.25PF	
CSS0148	C407	C,TA ELYC 35 V 0.1 UF + -20%		CEU0019	C490	C,AL ELYC 6.3 V 47 UF + -20%	
CSS0148	C408	C,TA ELYC 35 V 0.1 UF + -20%		CCG0292	C491	C,CERAMIC 50 V 10000 PF + -10%	
CSS0148	C409	C,TA ELYC 35 V 0.1 UF + -20%		JBX2211	CN401	CONNECTOR 173278-1 (30P,CAP ASSY-H)	
CSS0148	C410	C,TA ELYC 35 V 0.1 UF + -20%		EDL0008	DL401	DELAY LINE LC-0408 (155NS/390OHM)	NTSC
CSS0148	C411	C,TA ELYC 35 V 0.1 UF + -20%		EDL0013	DL401	DELAY LINE LC-0425 (100NS)	PAL
CCG0295	C412	C,CERAMIC 25 V 0.1 UF + 80-20%		EDL0007	DL402	DELAY LINE LC-0407 (180NS/390OHM)	NTSC
CCG0295	C413	C,CERAMIC 25 V 0.1 UF + 80-20%		EDL0011	DL402	DELAY LINE LC-0412 (130NS)	PAL
CCG0270	C431	C,CERAMIC 50 V 47 PF + -5%		EDL0011	DL403	DELAY LINE LC-0412 (130NS,1KOHM)	
CCG0263	C432	C,CERAMIC 50 V 22 PF + -5%		EDL0011	DL404	DELAY LINE LC-0412 (130NS,1KOHM)	
CSM0021	C433	C,TA ELYC 16 V 2.2 UF + -20%		EDL0011	DL405	DELAY LINE LC-0412 (130NS,1KOHM)	
CCG0295	C434	C,CERAMIC 25 V 0.1 UF + 80-20%		EDL0006	DL406	DELAY LINE LC-0397 (75NS/1KOHM)	
CCG0270	C435	C,CERAMIC 50 V 47 PF + -5%		AFL0098	FL401	FIL LY-0001 (14.3MHZ LPF)	NTSC
CEU0018	C436	C,AL ELYC 6.3 V 22 UF + -20%		AFL0102	FL401	FIL LC-0409 (17.7MHZ)	PAL
CCG0295	C437	C,CERAMIC 25 V 0.1 UF + 80-20%		AFL0098	FL402	FIL LY-0001 (14.3MHZ LPF)	NTSC
CEU0022	C438	C,AL ELYC 16 V 10 UF + -20%		AFL0102	FL402	FIL LC-0409 (17.7MHZ)	PAL
CEU0022	C439	C,AL ELYC 16 V 10 UF + -20%		AFL0099	FL403	FIL LC-0410 (12.8MHZ/1KOHM)	
CCG0295	C440	C,CERAMIC 25 V 0.1 UF + 80-20%		TLL0306	L401	COIL 320MA 22 UH + -10%	
CCG0295	C441	C,CERAMIC 25 V 0.1 UF + 80-20%					
CSM0021	C442	C,TA ELYC 16 V 2.2 UF + -20%					

Parts Code	Symbol	Description	Remarks
TLL0306	L402	COIL 320MA 22 UH + -10%	
TLL0340	L403	COIL LQH4N100K-S (10UH)	
TLL0340	L404	COIL LQH4N100K-S (10UH)	
RNE0111	RV351	VR,METAL EVM-7JGA00B52(500)	
RNE0111	RV352	VR,METAL EVM-7JGA00B52(500)	
RNS0015	RV401	VR,METAL ST-4G 2 KOHM	
RNS0015	RV402	VR,METAL ST-4G 2 KOHM	
RNS0015	RV404	VR,METAL ST-4G 2 KOHM	
SSV0253	SW401	SW,SLIDE SSSS2-1-2-B	
8391000	TP1	TEST POINT IPS-1136 DH PIN	
8391000	TP2	TEST POINT IPS-1136 DH PIN	
8391000	TP3	TEST POINT IPS-1136 DH PIN	
8391000	TP4	TEST POINT IPS-1136 DH PIN	
8391000	TP5	TEST POINT IPS-1136 DH PIN	
8391000	TP6	TEST POINT IPS-1136 DH PIN	
8391000	TP7	TEST POINT IPS-1136 DH PIN	

Parts Code	Symbol	Description	Remarks
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Part Code	Symbol	Description	Remarks	Part Code	Symbol	Description	Remarks
IDH1215	IC501	IC,LOGIC HD14053BFP/MC14053BFP		RME1438	R540	R,METAL 0.1V 1.0KOHM + -5%	
ILD0093	IC502	IC,ANALOG DBM1128AFP		RME1448	R541	R,METAL 0.1V 6.8KOHM + -5%	
ILD0095	IC503	IC,ANALOG DBM2102BFP		RME1487	R542	R,METAL 0.1V 820HM + -5%	
ILD0094	IC504	IC,ANALOG DBM2101BFP(N)	NTSC	RME1487	R543	R,METAL 0.1V 820HM + -5%	
ILD0100	IC504	IC,ANALOG DBM2101BFP(P)	PAL	RME1426	R544	R,METAL 0.1V 100OHM + -5%	
IDM0432	IC505	IC,DIGITAL MB2113		RME1413	R546	R,METAL 0.1V 0OHM	
ILD0097	IC506	IC,ANALOG DBM2104BFP		RME1413	R547	R,METAL 0.1V 0OHM	
IDH1211	IC508	IC,LOGIC HD14049UBFP/MC14049UBFP		RME1413	R548	R,METAL 0.1V 0OHM	
IDS0567	IC509	IC SC14SU69F	PAL	RME1453	R551	R,METAL 0.1V 18KOHM + -5%	
HDD0167	D501	DIODE DCB010		RME1454	R553	R,METAL 0.1V 22KOHM + -5%	NTSC
HDD0167	D502	DIODE DCB010		RME1454	R554	R,METAL 0.1V 22KOHM + -5%	PAL
HDD0168	D503	DIODE DCC010		RME1454	R555	R,METAL 0.1V 22KOHM + -5%	NTSC
HTC0686	Q501	TRANSISTOR 2SC2462C (LC)		RME1454	R556	R,METAL 0.1V 22KOHM + -5%	PAL
HTC0686	Q502	TRANSISTOR 2SC2462C (LC)		RMR4139	R557	R,METAL 1/16V 10KOHM + -0.5%	
HTC0686	Q503	TRANSISTOR 2SC2462C (LC)		RMR4131	R558	R,METAL 0.1V 30.1KOHM + -5%	PAL
HDX0066	TH501	TRANSISTOR 112-102-2		RMR4139	R559	R,METAL 1/16V 10KOHM + -0.5%	
RME1413	J501	R,METAL 0.1V 0OHM	NTSC	RMR4131	R560	R,METAL 0.1V 30.1KOHM + -5%	PAL
RME1413	J502	R,METAL 0.1V 0OHM	PAL	RMR4139	R561	R,METAL 1/16V 10KOHM + -0.5%	
RME1413	J503	R,METAL 0.1V 0OHM	NTSC	RMR4131	R562	R,METAL 0.1V 30.1KOHM + -5%	PAL
RME1413	J504	R,METAL 0.1V 0OHM	PAL	RME1450	R563	R,METAL 0.1V 10KOHM + -5%	
RME1413	J511	R,METAL 0.1V 0OHM	PAL	RME1439	R564	R,METAL 0.1V 1.2KOHM + -5%	
RME1462	R501	R,METAL 0.1V 100KOHM + -5%		RMR4156	R565	R,METAL 1/16V 220OHM + -0.5%	
RME1446	R502	R,METAL 0.1V 4.7KOHM + -5%		RMR4161	R566	R,METAL 1/16V 1.2KOHM + -0.5%	
RME1462	R503	R,METAL 0.1V 100KOHM + -5%		RME1417	R567	R,METAL 0.1V 180HM + -5%	
RME1446	R504	R,METAL 0.1V 4.7KOHM + -5%		RME1450	R568	R,METAL 0.1V 10KOHM + -5%	
RME1446	R505	R,METAL 0.1V 4.7KOHM + -5%		RME1439	R569	R,METAL 0.1V 1.2KOHM + -5%	
RMR4137	R506	R,METAL 1/16V 820OHM + -0.5%		RME1440	R570	R,METAL 0.1V 1.5KOHM + -5%	NTSC
RME1450	R507	R,METAL 0.1V 10KOHM + -5%		RME1442	R571	R,METAL 0.1V 2.2KOHM + -5%	NTSC
RME1462	R508	R,METAL 0.1V 100KOHM + -5%		RME1446	R581	R,METAL 0.1V 4.7KOHM + -5%	
RMR4165	R509	R,METAL 1/16V 3.9KOHM0 + -5%	NTSC	RME1450	R582	R,METAL 0.1V 10KOHM + -5%	
RME1455	R510	R,METAL 0.1V 27KOHM + -5%	NTSC	RME1462	R583	R,METAL 0.1V 100KOHM + -5%	
RME1455	R511	R,METAL 0.1V 27KOHM + -5%	NTSC	RME1448	R584	R,METAL 0.1V 6.8KOHM + -5%	
RME1438	R512	R,METAL 0.1V 1.0KOHM + -5%		RME1462	R585	R,METAL 0.1V 100KOHM + -5%	
RME1450	R513	R,METAL 0.1V 10KOHM + -5%		RME1450	R586	R,METAL 0.1V 10KOHM + -5%	
RME1444	R514	R,METAL 0.1V 3.3KOHM + -5%		RME1442	R587	R,METAL 0.1V 2.2KOHM + -5%	
RME1442	R516	R,METAL 0.1V 2.2KOHM + -5%		RME1438	R588	R,METAL 0.1V 1.0KOHM + -5%	
RME1432	R519	R,METAL 0.1V 330OHM + -5%		RME1462	R589	R,METAL 0.1V 100KOHM + -5%	
RME1426	R520	R,METAL 0.1V 100OHM + -5%	PAL	RME1450	R590	R,METAL 0.1V 10KOHM + -5%	
RME1441	R521	R,METAL 0.1V 1.8KOHM + -5%		RME1442	R591	R,METAL 0.1V 2.2KOHM + -5%	
RME1441	R522	R,METAL 0.1V 1.8KOHM + -5%		RME1438	R592	R,METAL 0.1V 1.0KOHM + -5%	PAL
RME1447	R523	R,METAL 0.1V 5.6KOHM + -5%	NTSC	RME1438	R593	R,METAL 0.1V 1.0KOHM + -5%	
RME1446	R524	R,METAL 0.1V 4.7KOHM + -5%	NTSC	RME1445	R594	R,METAL 0.1V 3.9KOHM + -5%	
RME1438	R525	R,METAL 0.1V 1.0KOHM + -5%	NTSC	RME1446	R595	R,METAL 0.1V 4.7KOHM + -5%	
RME1441	R526	R,METAL 0.1V 1.8KOHM + -5%		RME1434	R601	R,METAL 0.1V 470OHM + -5%	
RME1434	R527	R,METAL 0.1V 470OHM + -5%		RME1438	R602	R,METAL 0.1V 1.0KOHM + -5%	
RME1434	R528	R,METAL 0.1V 470OHM + -5%		RME1443	R603	R,METAL 0.1V 2.7KOHM + -5%	NTSC
RME1430	R529	R,METAL 0.1V 220OHM + -5%		RME1454	R604	R,METAL 0.1V 22KOHM + -5%	NTSC
RME1438	R530	R,METAL 0.1V 1.0KOHM + -5%		RME1434	R605	R,METAL 0.1V 470OHM + -5%	NTSC
RME1438	R531	R,METAL 0.1V 1.0KOHM + -5%		RME1454	R606	R,METAL 0.1V 22KOHM + -5%	NTSC
RME1438	R532	R,METAL 0.1V 1.0KOHM + -5%		RME1438	R607	R,METAL 0.1V 1.0KOHM + -5%	
RME1424	R533	R,METAL 0.1V 68OHM + -5%		RME1447	R608	R,METAL 0.1V 5.6KOHM + -5%	
RME1424	R534	R,METAL 0.1V 68OHM + -5%		RME1430	R609	R,METAL 0.1V 220OHM + -5%	
RME1424	R535	R,METAL 0.1V 68OHM + -5%		RME1438	R610	R,METAL 0.1V 1.0KOHM + -5%	
RME1438	R536	R,METAL 0.1V 1.0KOHM + -5%		RME1444	R611	R,METAL 0.1V 3.3KOHM + -5%	
RME1446	R537	R,METAL 0.1V 4.7KOHM + -5%		RME1447	R612	R,METAL 0.1V 5.6KOHM + -5%	NTSC
RME1426	R538	R,METAL 0.1V 100OHM + -5%		RME1445	R612	R,METAL 0.1V 3.9KOHM + -5%	PAL
RME1426	R539	R,METAL 0.1V 100OHM + -5%		RME1442	R613	R,METAL 0.1V 2.2KOHM + -5%	NTSC

Part Code	Symbol	Description	Remarks	Part Code	Symbol	Description	Remarks
RME1445	R613	R,METAL 0.1V 3.9KOHM + -5%	PAL	CEU0019	C549	C,AL ELYC 6.3V 47UF + -20%	
RME1447	R614	R,METAL 0.1V 5.6KOHM + -5%		CCG0295	C550	C,CERAMIC 25V 0.1UF + 80-20%	
RME1444	R615	R,METAL 0.1V 3.3KOHM + -5%		CEU0019	C551	C,AL ELYC 6.3V 47UF + -20%	
RME1450	R616	R,METAL 0.1V 10KOHM + -5%	PAL	CCG0292	C552	C,CERAMIC 50V 10000PF + -10%	
RME1430	R617	R,METAL 0.1V 220OHM + -5%		CCG0270	C553	C,CERAMIC 50V 47PF + -5%	NTSC
RME1451	R618	R,METAL 0.1V 12KOHM + -5%		CCG0269	C553	C,CERAMIC 50V 39PF + -5%	PAL
RME1450	R619	R,METAL 0.1V 10KOHM + -5%	PAL	CCG0292	C554	C,CERAMIC 50V 10000PF + -10%	
RME1430	R620	R,METAL 0.1V 220OHM + -5%		JBX2212	CN501	CONNECTOR 173278-3(50P,CAP ASSY-H)	
RME1451	R621	R,METAL 0.1V 12KOHM + -5%		EDL0005	DL501	DELAY LINE LC-0396 (330NS/470OHM)	
RME1435	R622	R,METAL 0.1V 560OHM + -5%		AFL0095	FL501	FIL LC-0404	
RME1438	R623	R,METAL 0.1V 1.0KOHM + -5%		AFL0095	FL502	FIL LC-0404	
RME1437	R623	R,METAL 0.1V 820OHM + -5%	NTSC	AFL0093	FL503	FIL LC-0402 (CHROMA BFP-N)	NTSC
RME1441	R624	R,METAL 0.1V 1.8KOHM + -5%	PAL	AFL0094	FL503	FIL LC-0403 (CHROMA BFP-P)	PAL
RME1439	R624	R,METAL 0.1V 1.2KOHM + -5%	NTSC	AFL0096	FL504	FIL LC-0405 (SC FILTER-N)	NTSC
RME1453	R625	R,METAL 0.1V 18KOHM + -5%	PAL	AFL0097	FL504	FIL LC-0406 (SC FILTER-P)	PAL
RME1449	R626	R,METAL 0.1V 8.2KOHM + -5%		TLL0306	L501	COIL 320MA 22UH + -10%	
RME1442	R627	R,METAL 0.1V 2.2KOHM + -5%		TLL0306	L502	COIL 320MA 22UH + -10%	
RME1435	R628	R,METAL 0.1V 560OHM + -5%		TLL0340	L503	COIL LQH4N100K-S (10UH)	
RME1441	R629	R,METAL 0.1V 1.8KOHM + -5%		TLL0340	L504	COIL LQH4N100K-S (10UH)	
RME1434	R630	R,METAL 0.1V 470OHM + -5%		TLN0041	L505	COIL 150MA 10UH + -10%	
RME1444	R631	R,METAL 0.1V 3.3KOHM + -5%		TLL0306	L506	COIL 320MA 22UH-10%	
RME1438	R632	R,METAL 0.1V 1.0KOHM + -5%		TLL0306	L507	COIL 320MA 22UH + -10%	
RME1438	R633	R,METAL 0.1V 1.0KOHM + -5%		RNS0014	RV501	VR,METAL ST-4G 1KOHM	
RME1430	R634	R,METAL 0.1V 220OHM + -5%		RNS0016	RV502	VR,METAL ST-4G 5KOHM	
RME1446	R671	R,METAL 0.1V 4.7KOHM + -5%		RNS0016	RV503	VR,METAL ST-4G 5KOHM	
CEU0019	C501	C,AL ELYC 6.3V 47UF + -20%		RNS0018	RV504	VR,METAL ST-4G 20KOHM	
CCG0295	C502	C,CERAMIC 25V 0.1UF + 80-20%		RNS0017	RV505	VR,METAL ST-4G 10KOHM	PAL
CCG0295	C503	C,CERAMIC 25V 0.1UF + 80-20%		RNS0018	RV506	VR,METAL ST-4G 20KOHM	
CCG0295	C504	C,CERAMIC 25V 0.1UF + 80-20%		RNS0017	RV507	VR,METAL ST-4G 10KOHM	PAL
CEU0019	C505	C,AL ELYC 6.3V 47UF + -20%		RNS0022	RV508	VR,METAL ST-4G 500OHM	
CCG0295	C506	C,CERAMIC 25V 0.1 + 80-20%		RNS0015	RV509	VR,METAL ST-4G 2KOHM	
CEU0022	C508	C,AL ELYC 16V 10UF + -20%		RNS0021	RV510	VR,METAL ST-4G 200OHM	
CEU0022	C509	C,AL ELYC 16V 10UF + -20%		RNE0115	RV601	VR,METAL EVM-7JGA00B14(10K)	
CCG0295	C511	C,CERAMIC 25V 0.1UF + 80-20%		RNE0111	RV602	VR,METAL EVM-7JGA00B52(500)	
CEU0019	C512	C,AL ELYC 6.3V 47UF + -20%		RNE0111	RV603	VR,METAL EVM-7JGA00B52(500)	
CCG0295	C513	C,CERAMIC 25V 0.1UF + 80-20%		RNE0112	RV604	VR,METAL EVM-7JGA00B13(1K)	
CEU0019	C514	C,AL ELYC 6.3V 47UF + -20%		RNE0113	RV605	VR,METAL EVM-7JGA00B23(2K)	
CCG0255	C521	C,CERAMIC 50V 10PF + -0.5PF		RNE0113	RV606	VR,METAL EVM-7JGA00B23(2K)	
CEU0019	C522	C,AL ELYC 6.3V 47UF + -20%		RNE0112	RV607	VR,METAL EVM-7JGA00B13(1K)	NTSC
CCG0295	C523	C,CERAMIC 25V 0.1UF + 80-20%		RNE0113	RV608	VR,METAL EVM-7JGA00B23(2K)	
CCG0269	C524	C,CERAMIC 50V 39PF + -5%		8391000	TP1	TEST POINT IPS-1136 DH PIN	
CCG0269	C525	C,CERAMIC 50V 39PF + -5%		8391000	TP2	TEST POINT IPS-1136 DH PIN	
CCG0269	C526	C,CERAMIC 50V 39PF + -5%					
CCG0274	C527	C,CERAMIC 50V 100PF + -5%	NTSC				
CCG0267	C531	C,CERAMIC 50V 33PF + -5%					
CCG0261	C532	C,CERAMIC 50V 18PF + -5%					
CCG0272	C533	C,CERAMIC 50V 68PF + -5%					
CCG0275	C534	C,CERAMIC 50V 120PF + -5%					
CCG0295	C535	C,CERAMIC 25V 0.1UF + 80-20%					
CCG0270	C536	C,CERAMIC 50V 47PF + -5%					
CSM0021	C543	C,TA ELYC 16V 2.2UF + -20%					
CSM0021	C544	C,TA ELYC 16V 2.2UF + -20%					
CCG0292	C545	C,CERAMIC 50V 10000PF + -10%					
CCG0292	C546	C,CERAMIC 50V 10000PF + -10%					
CCG0272	C547	C,CERAMIC 50V 68PF + -5%	NTSC				
CCG0271	C547	C,CERAMIC 50V 56PF + -5%	PAL				
CCG0295	C548	C,CERAMIC 25V 0.1UF + 80-20%					

SG/GL UNIT

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
ISL0002	IC701	IC LM1881M		RME1467	R704	R,METAL 0.1W 680 KOHM + -5%	
IDT0192	IC703	IC,LOGIC TC74HC4538F		RME1413	R705	R,METAL 0.1W 0 OHM	
IDS0393	IC704	IC,LOGIC SN74LS221NS		RME1464	R706	R,METAL 0.1W 220 KOHM + -5%	
IDC0142	IC705	IC CX23065		RME1463	R707	R,METAL 0.1W 150 KOHM + -5%	
ILN0094	IC706	IC,ANALOG NJM062M		RME1450	R708	R,METAL 0.1W 10 KOHM + -5%	
IDH1215	IC707	IC,LOGIC HD14053BFP/MC14053BFP		RME1438	R709	R,METAL 0.1W 1.0 KOHM + -5%	
ILN0094	IC708	IC,ANALOG NJM062M		RME1450	R710	R,METAL 0.1W 10 KOHM + -5%	
IDT0172	IC709	IC,LOGIC TC74HC74AF		RMR4144	R711	R,METAL 1/16W 27 KOHM + -0.5%	
IDT0146	IC710	IC,LOGIC TC40H151F		RME1464	R712	R,METAL 0.1W 220 KOHM + -5%	
IDT0083	IC711	IC,LOGIC TC40H074F		RMR4148	R713	R,METAL 1/16W 47 KOHM + -0.5%	
IDM0696	IC712	IC,LOGIC MN74HC4053S		RME1432	R714	R,METAL 0.1W 330 OHM + -5%	
ISC0002	IC714	IC CXD1217M		RME1450	R715	R,METAL 0.1W 10 KOHM + -5%	
IDH1211	IC715	IC,LOGIC HD14049UBFP/MC14049UBFP		RME1446	R716	R,METAL 0.1W 4.7 KOHM + -5%	
IDT0192	IC716	IC,LOGIC TC74HC4538F		RME1462	R717	R,METAL 0.1W 100 KOHM + -5%	
IDH1212	IC717	IC,LOGIC HD14050BFP/MC14050BFP		RME1413	R718	R,METAL 0.1W 0 OHM	
IDT0273	IC718	IC,LOGIC TC7SU04F/SC7SU04F (E6)		RMR4142	R721	R,METAL 1/16W 22 KOHM + -0.5%	
IDT0273	IC719	IC,LOGIC TC7SU04F/SC7SU04F (E6)		RME1413	R722	R,METAL 0.1W 0 OHM	
IDT0273	IC720	IC,LOGIC TC7SU04F/SC7SU04F (E6)		RMR4139	R723	R,METAL 1/16W 10 KOHM + -0.5%	
HDD0167	D701	DIODE DCB010		RME1442	R731	R,METAL 0.1W 2.2 KOHM + -5%	
HDD0168	D702	DIODE DCC010		RME1438	R732	R,METAL 0.1W 1.0 KOHM + -5%	
HDD0167	D703	DIODE DCB010		RME1442	R734	R,METAL 0.1W 2.2 KOHM + -5%	
HDH0270	D704	DIODE HVR100		RME1448	R735	R,METAL 0.1W 6.8 KOHM + -5%	
HDH0270	D705	DIODE HVR100		RME1444	R736	R,METAL 0.1W 3.3 KOHM + -5%	
HDD0168	D706	DIODE DCC010		RME1462	R737	R,METAL 0.1W 100 KOHM + -5%	
HDF0056	D708	DIODE FC54M-45		RME1450	R738	R,METAL 0.1W 10 KOHM + -5%	
HDF0056	D709	DIODE FC54M-45		RME1442	R739	R,METAL 0.1W 2.2 KOHM + -5%	
HDD0167	D710	DIODE DCB010		RME1444	R740	R,METAL 0.1W 3.3 KOHM + -5%	
HTC0686	Q701	TRANSISTOR 2SC2462C (LC)		RME1464	R741	R,METAL 0.1W 220 KOHM + -5%	
HTA0268	Q702	TRANSISTOR 2SA1122C (CC)		RME1442	R742	R,METAL 0.1W 2.2 KOHM + -5%	
HTC0686	Q703	TRANSISTOR 2SC2462C (LC)		RME1436	R743	R,METAL 0.1W 680 OHM + -5%	
HTC0686	Q704	TRANSISTOR 2SC2462C (LC)		RME1468	R744	R,METAL 0.1W 1.0 MOHM + -5%	
HTC0686	Q705	TRANSISTOR 2SC2462C (LC)		RME1444	R745	R,METAL 0.1W 3.3 KOHM + -5%	
HTC0686	Q706	TRANSISTOR 2SC2462C (LC)		RME1444	R746	R,METAL 0.1W 3.3 KOHM + -5%	
HTC0590	Q707	TRANSISTOR 2SC1621B4		RME1444	R747	R,METAL 0.1W 3.3 KOHM + -5%	
HTC0590	Q708	TRANSISTOR 2SC1621B4		RME1442	R749	R,METAL 0.1W 2.2 KOHM + -5%	
HTK0126	Q709	TRANSISTOR 2SK443-AJ6		RME1451	R750	R,METAL 0.1W 12 KOHM + -5%	
HTC0686	Q710	TRANSISTOR 2SC2462C	PAL	RME1446	R751	R,METAL 0.1W 4.7 KOHM + -5%	
HTD0160	Q721	TRANSISTOR DTA124EK		RME1462	R752	R,METAL 0.1W 100 KOHM + -5%	PAL
HTC0686	Q722	TRANSISTOR 2SC2462C (LC)		RME1442	R753	R,METAL 0.1W 2.2 KOHM + -5%	
HTC0686	Q723	TRANSISTOR 2SC2462C (LC)		RME1457	R754	R,METAL 0.1W 39 KOHM + -5%	
HTC0686	Q724	TRANSISTOR 2SC2462C (LC)		RME1442	R755	R,METAL 0.1W 2.2 KOHM + -5%	
HTC0686	Q725	TRANSISTOR 2SC2462C (LC)		RME1438	R756	R,METAL 0.1W 1.0 KOHM + -5%	NTSC
HTC0686	Q726	TRANSISTOR 2SC2462C (LC)		RME1430	R757	R,METAL 0.1W 220 OHM + -5%	
HTC0686	Q729	TRANSISTOR 2SC2620B (QB)		RME1462	R761	R,METAL 0.1W 100 KOHM + -5%	
HTC0690	Q729	TRANSISTOR 2SC2620B (QB)		RME1462	R762	R,METAL 0.1W 100 KOHM + -5%	
HDX0065	TH701	THERMISTOR 112-103-2		RME1458	R763	R,METAL 0.1W 47 KOHM + -5%	
RME1413	J701	R,METAL 0.1W 0 OHM		RME1450	R764	R,METAL 0.1W 10 KOHM + -5%	
RME1413	J703	R,METAL 0.1W 0 OHM	PAL	RME1443	R765	R,METAL 0.1W 2.7 KOHM + -5%	
RME1413	J705	R,METAL 0.1W 0 OHM		RME1438	R766	R,METAL 0.1W 1.0 KOHM + -5%	
RME1413	J707	R,METAL 0.1W 0 OHM	NTSC	RME1438	R767	R,METAL 0.1W 1.0 KOHM + -5%	
RME1413	J710	R,METAL 0.1W 0 OHM	PAL	RME1442	R768	R,METAL 0.1W 2.2 KOHM + -5%	
RME1487	R701	R,METAL 0.1W 75 OHM + -5%		RME1438	R769	R,METAL 0.1W 1.0 KOHM + -5%	
RME1445	R702	R,METAL 0.1W 3.9 KOHM + -5%		RME1438	R771	R,METAL 0.1W 1.0 KOHM + -5%	
RME1426	R703	R,METAL 0.1W 100 OHM + -5%		RME1439	R772	R,METAL 0.1W 1.2 KOHM + -5%	
				RME1462	R773	R,METAL 0.1W 100 KOHM + -5%	

Parts Code	Symbol	Description		Parts Code	Symbol	Description	Remarks
RME1426	R774	R,METAL 0.1W 100 OHM + -5%	PAL	CCG0277	C711	C,CERAMIC 50 V 180 PF + -5%	NTSC NTSC PAL
RME1444	R775	R,METAL 0.1W 3.3 KOHM + -5%		CCG0291	C712	C,CERAMIC 50 V 6800 PF + -10%	
RME1434	R778	R,METAL 0.1W 470 OHM + -5%		CSM0021	C713	C,TA ELYC 16 V 2.2 UF + -20%	
RME1462	R779	R,METAL 0.1W 100 KOHM + -5%		CSM0021	C714	C,TA ELYC 16 V 2.2 UF + -20%	
RME1462	R780	R,METAL 0.1W 100 KOHM + -5%		CCG0295	C715	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1462	R781	R,METAL 0.1W 100 KOHM + -5%		CEU0019	C716	C,AL ELYC 6.3 V 47 UF + -20%	
RME1434	R782	R,METAL 0.1W 470 OHM + -5%		CCG1160	C718	C,AL ELYC 50 V 330 PF + -10%	
RME1413	R783	R,METAL 0.1W 0 OHM		CCG0273	C731	C,CERAMIC 50 V 82 PF + -5%	
RME1445	R784	R,METAL 0.1W 3.9 KOHM + -5%		CCG0271	C731	C,CERAMIC 50 V 56 PF + -5%	
RME1442	R785	R,METAL 0.1W 2.2 KOHM + -5%		CCG0292	C732	C,CERAMIC 50 V 10000 PF + -10%	
RME1443	R786	R,METAL 0.1W 2.7 KOHM + -5%		CCG0250	C733	C,CERAMIC 50 V 5 PF + -0.25PF	
RME1430	R787	R,METAL 0.1W 220 OHM + -5%		CCG0250	C734	C,CERAMIC 50 V 5 PF + -0.25PF	
RME1445	R788	R,METAL 0.1W 3.9 KOHM + -5%		CCG0295	C736	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1435	R789	R,METAL 0.1W 560 OHM + -5%		CSM0021	C737	C,TA ELYC 16 V 2.2 UF + -20%	
RME1439	R790	R,METAL 0.1W 1.2 KOHM + -5%		CSM0021	C738	C,TA ELYC 16 V 2.2 UF + -20%	
RME1450	R791	R,METAL 0.1W 10 KOHM + -5%		CCG0295	C739	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1453	R801	R,METAL 0.1W 18 KOHM + -5%		CCG0295	C740	C,CERAMIC 25 V 0.1 UF + 80-20%	
RME1453	R802	R,METAL 0.1W 18 KOHM + -5%		CCG0288	C741	C,CERAMIC 50 V 2200 PF + -10%	
RME1462	R803	R,METAL 0.1W 100 KOHM + -5%		CCG0294	C742	C,CERAMIC 50 V 47000 PF + 80-20%	
RME1468	R804	R,METAL 0.1W 1.0 MOHM + -5%		CEU0022	C743	C,AL ELYC 16 V 10 UF + -20%	
RME1446	R805	R,METAL 0.1W 4.7 KOHM + -5%	CCG0286	C744	C,CERAMIC 50 V 1000 PF + -10%		
RME1442	R807	R,METAL 0.1W 2.2 KOHM + -5%	CCG0295	C745	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1450	R808	R,METAL 0.1W 10 KOHM + -5%	CCG0366	C746	C,CERAMIC 50 V 680 PF + -5%		
RME1462	R809	R,METAL 0.1W 100 KOHM + -5%	CCG0295	C747	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1450	R811	R,METAL 0.1W 10 KOHM + -5%	CCG0295	C748	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1450	R812	R,METAL 0.1W 10 KOHM + -5%	CEU0019	C749	C,AL ELYC 6.3 V 47 UF + -20%		
RME1431	R813	R,METAL 0.1W 150 OHM + -5%	CEU0019	C761	C,AL ELYC 6.3 V 47 UF + -20%		
RME1446	R814	R,METAL 0.1W 4.7 KOHM + -5%	CCG0295	C762	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1446	R815	R,METAL 0.1W 4.7 KOHM + -5%	CCG0295	C763	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1413	R816	R,METAL 0.1W 390 OHM + -5%	CCG0295	C764	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1468	R817	R,METAL 0.1W 1.0 MOHM + -5%	CCG0261	C765	C,CERAMIC 50 V 18 PF + -5%		
RME1438	R818	R,METAL 0.1W 1.0 KOHM + -5%	CCG0295	C766	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1413	R818	R,METAL 0.1W OHM + -5%	CEU0022	C767	C,AL ELYC 16 V 10 UF + -20%		
RME1448	R821	R,METAL 0.1W 6.8 KOHM + -5%	CCG0292	C768	C,CERAMIC 50 V 10000 PF + -10%		
RMR4167	R824	R,METAL 1/16W OHM + -0.5%	CCG0292	C769	C,CERAMIC 50 V 10000 PF + -10%		
RMR4139	R825	R,METAL 1/16W 10 KOHM + -0.5%	CEU0019	C770	C,AL ELYC 6.3 V 47 UF + -20%		
RMR4139	R826	R,METAL 1/16W 10 KOHM + -0.5%	CCG0295	C771	C,CERAMIC 25 V 0.1 UF + 80-20%		
RMR4140	R827	R,METAL 1/16W 15 KOHM + -0.5%	CEU0019	C772	C,AL ELYC 6.3 V 47 UF + -20%		
RMR4142	R828	R,METAL 1/16W 22 KOHM + -0.5%	CEU0019	C801	C,AL ELYC 6.3 V 47 UF + -20%		
RME1448	R829	R,METAL 0.1W 6.8 KOHM + -5%	CCG0295	C802	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1440	R830	R,METAL 0.1W 1.5 KOHM + -5%	CCG0295	C803	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1450	R831	R,METAL 0.1W 10 KOHM + -5%	CCG0295	C804	C,CERAMIC 25 V 0.1 UF + 80-20%		
RME1450	R832	R,METAL 0.1W 10 KOHM + -5%	CCG0286	C805	C,CERAMIC 50 V 1000 PF + -10%		
RME1440	R833	R,METAL 0.1W 1.5 KOHM + -5%	C806	Not used			
RMR4166	R834	R,METAL 1/16W 4.7 KOHM + -0.5%	CCG0292	C807	C,CERAMIC 50 V 10000 PF + -10%		
RMR4166	R835	R,METAL 1/16W 4.7 KOHM + -0.5%	CCG0265	C808	C,CERAMIC 50 V 27 PF + -5%		
CCG0284	C701	C,CERAMIC 50 V 680 PF + -5%	CEU0022	C809	C,AL ELYC 16 V 10 UF + -20%		
CCG0295	C702	C,CERAMIC 25 V 0.1 UF + 80-20%	CCG0295	C810	C,CERAMIC 25 V 0.1 UF + 80-20%		
CQE0200	C703	C,PLASTIC 50 V 0.1 UF + -10%	CCG0286	C811	C,CERAMIC 50 V 1000 PF + -10%		
CCG0295	C705	C,CERAMIC 25 V 0.1 UF + 80-20%	CCG0250	C812	C,CERAMIC 50 V 5 PF + -5%		
CEU0022	C706	C,AL ELYC 16 V 10 UF + -20%	CCG0295	C813	C,CERAMIC 25 V 0.1 UF + 80-20%		
CCG0279	C707	C,CERAMIC 50 V 270 PF + -5%	CCG0292	C814	C,CERAMIC 50 V 10000 PF + -10%		
CCG0295	C708	C,CERAMIC 25 V 0.1 UF + 80-20%	CCG0295	C815	C,CERAMIC 25 V 0.1 UF + 80-20%		
CCG0280	C709	C,CERAMIC 50 V 330 PF + -5%	CEU0019	C816	C,AL ELYC 6.3 V 47 UF + -20%		
CCG0295	C710	C,CERAMIC 25 V 0.1 UF + 80-20%	CCG0261	C817	C,CERAMIC 50 V 18 PF + -5%		

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
CCG0269	C818	C,CERAMIC 50 V 39 PF + -5%					
CCG0274	C821	C,CERAMIC 50 V 100 PF + -5%					
CCG0295	C822	C,CERAMIC 25 V 0.1 UF + 80-20%					
CEU0024	C823	C,AL ELYC 16 V 47 UF + -20%					
CCG0270	C824	C,CERAMIC 50 V 47 PF + -5%					
CCG0275	C825	C,CERAMIC 50 V 120 PF + -5%					
CCG0295	C826	C,CERAMIC 25 V 0.1 UF + 80-20%					
CCG0274	C827	C,CERAMIC 50 V 100 PF + -5%					
CCG0278	C828	C,CERAMIC 50 V 220 PF + -5%					
CCG0274	C830	C,CERAMIC 50 V 100 PF + -5%					
CEU0019	C831	C,AL ELYC 6.3 V 47 UF + -20%					
CEU0019	C832	C,AL ELYC 6.3 V 47 UF + -20%					
CCG0255	C833	C,CERAMIC 50 V 10 PF + -0.5PF					
CCG0292	C834	C,CERAMIC 50 V 10000 PF + -10%					
CCG0295	C835	C,CERAMIC 25 V 0.1 UF + 80-20%					
CCG0274	C836	C,CERAMIC 50 V 100 PF + -5%					
CCG0274	C837	C,CERAMIC 50 V 100 PF + -5%					
JBX2212	CN701	CONNECTOR 173278-3 (50P,CAP ASSY-H					
CVT0052	CV701	C,VARIABLE TZB04N100BA					
CVT0052	CV702	C,VARIABLE TZB04N100BA					
AFL0096	FL701	FIL LC-0405 (SC FILTER-N)	NTSC				
AFL0097	FL701	FIL LC-0406 (SC FILTER-P)	PAL				
AFL0096	FL702	FIL LC-0405 (SC FILTER-N)	NTSC				
AFL0097	FL702	FIL LC-0406 (SC FILTER-P)	PAL				
TLL0258	L701	COIL 160MA 100 UH + -10%					
TLL0258	L702	COIL 160MA 100 UH + -10%					
TLN0040	L703	COIL NL322522-220K (22UH)					
TLN0040	L704	COIL NL322522-220K (22UH)					
TLL0258	L705	COIL 160MA 100 UH + -10%					
TLL0258	L706	COIL 160MA 100 UH + -10%					
TLN0040	L707	COIL NL322522-220K (22UH)					
TLN0040	L708	COIL NL322522-220K (22UH)					
TLN0040	L709	COIL NL322522-220K (22UH)					
TLN0040	L710	COIL NL322522-220K (22UH)					
TLL0245	LV702	COIL LC-0315					
RNS0018	RV701	VR,METAL ST-4G 20 KOHM	NTSC				
RNE0115	RV702	VR,METAL EVM-7JGA00B14(10K)					
8391000	TP701	TEST POINT IPS-1136 DH PIN					
8391000	TP702	TEST POINT IPS-1136 DH PIN					
8391000	TP703	TEST POINT IPS-1136 DH PIN					
8391000	TP704	TEST POINT IPS-1136 DH PIN					
AAA0002	X1	XTAL AT-51A 14.31818 MHZ	NTSC				
AAA0002	X2	XTAL AT-51A 14.31818 MHZ	PAL				
AAA0003	X1	XTAL AT-51A 17.734475MHZ	NTSC				
8362537G	X2	XTAL XC-0052 14.1875 MHZ	PAL				

CPU-1 UNIT

Parts Code	Symbol	Description	Remarks	Parts Code	Symbol	Description	Remarks
IDH1215	IC101	IC,LOGIC HD14053BFP/MC14053BFP		RME1434	R103	R,METAL 0.1W 470 OHM + -5%	
IDH1214	IC102	IC,LOGIC HD14052BFP/MC14052BFP		RME1448	R104	R,METAL 0.1W 6.8 KOHM + -5%	
ILL0123	IC103	IC LMC662CM		RME1446	R105	R,METAL 0.1W 4.7 KOHM + -5%	
IDH1215	IC104	IC,LOGIC HD14053BFP/MC14053BFP		RME1450	R106	R,METAL 0.1W 10 KOHM + -5%	
ILN0094	IC105	IC,ANALOG NJM062M		RME1446	R107	R,METAL 0.1W 4.7 KOHM + -5%	
ILN0082	IC106	IC,ANALOG NJM319M		RME1426	R108	R,METAL 0.1W 100 OHM + -5%	
8522593B	IC107	IC HD6475328F(C10 CPU2 V1.0)		RME1450	R109	R,METAL 0.1W 10 KOHM + -5%	
ILM0399	IC108	IC,ANALOG MN1280R		RME1446	R110	R,METAL 0.1W 4.7 KOHM + -5%	
ISM0039	IC109	IC M62352GP		RME1426	R112	R,METAL 0.1W 100 OHM + -5%	
INM0035	IC110	IC M6M80011AFP		RME1446	R113	R,METAL 0.1W 4.7 KOHM + -5%	
ISM0003	IC111	IC UPD6145G-101		RME1426	R114	R,METAL 0.1W 100 OHM + -5%	
IDT0253	IC112	IC,LOGIC TC4S01F/SC14S01F (C3)		RME1442	R115	R,METAL 0.1W 2.2 KOHM + -5%	
IDS0567	IC113	IC,LOGIC SC14SU69F/TC4SU69F (C6)		RME1426	R117	R,METAL 0.1W 100 OHM + -5%	
IDS0567	IC114	IC,LOGIC SC14SU69F/TC4SU69F (C6)		RME1426	R118	R,METAL 0.1W 100 OHM + -5%	
IDS0569	IC115	IC,LOGIC SC14S81F/TC4S81F (C2)		RME1442	R119	R,METAL 0.1W 2.2 KOHM + -5%	
ILL0123	IC116	IC LMC662CM		RME1426	R120	R,METAL 0.1W 100 OHM + -5%	
HDD0167	D101	DIODE DCB010		RME1442	R121	R,METAL 0.1W 2.2 KOHM + -5%	
HDH0224	D102	DIODE HSM88S (C1)		RME1447	R122	R,METAL 0.1W 5.6 KOHM + -5%	
HDS0578	D104	DIODE SB05-05CP		RME1442	R123	R,METAL 0.1W 2.2 KOHM + -5%	
HLG0578	D105	DIODE SB05-05CP		RME1447	R124	R,METAL 0.1W 5.6 KOHM + -5%	
HLG0042	D106	LED GL3KG8 (GRN)		RME1447	R125	R,METAL 0.1W 5.6 KOHM + -5%	
HDD0167	D201	DIODE DCB010		RME1464	R126	R,METAL 0.1W 220 KOHM + -5%	
HDD0167	D202	DIODE DCB010		RME1447	R127	R,METAL 0.1W 5.6 KOHM + -5%	
HDD0167	D203	DIODE DCB010					
HDD0159	D301	DIODE DCA010		RME1464	R128	R,METAL 0.1W 220 KOHM + -5%	
HDD0159	D302	DIODE DCA010		RME1434	R129	R,METAL 0.1W 470 OHM + -5%	
HDD0159	D303	DIODE DCA010		RME1434	R130	R,METAL 0.1W 470 OHM + -5%	
HDD0159	D304	DIODE DCA010		RMR4168	R131	R,METAL 1/16W 8.2 KOHM + -0.5%	
HDD0159	D305	DIODE DCA010		RMR4138	R132	R,METAL 1/16W 3300 OHM + -0.5%	
HDD0159	D306	DIODE DCA010		RMR4114	R133	R,METAL 1/16W 2.2 KOHM + -0.5%	
HDD0159	D307	DIODE DCA010		RMR4146	R134	R,METAL 1/16W 6800 OHM + -0.5%	
HDD0159	D308	DIODE DCA010		RMR4146	R135	R,METAL 1/16W 6800 OHM + -0.5%	
				RMR4114	R136	R,METAL 1/16W 2.2 KOHM + -0.5%	
HTC0686	Q101	TRANSISTOR 2SC2462C (LC)		RMR4167	R137	R,METAL 1/16W 5.6 KOHM + -0.5%	
HTC0686	Q102	TRANSISTOR 2SC2462C (LC)		RMR4138	R138	R,METAL 1/16W 3300 OHM + -0.5%	
HTA0268	Q103	TRANSISTOR 2SA1122C (CC)		RMR4113	R139	R,METAL 1/16W 1 KOHM + -0.5%	
HTA0268	Q104	TRANSISTOR 2SA1122C (CC)		RME1413	R140	R,METAL 0.1W 0 OHM	
HTC0686	Q105	TRANSISTOR 2SC2462C (LC)		RME1413	R141	R,METAL 0.1W 0 OHM	
HTC0686	Q106	TRANSISTOR 2SC2462C (LC)		RME1450	R142	R,METAL 0.1W 10 KOHM + -5%	
HTC0686	Q107	TRANSISTOR 2SC2462C (LC)		RME1450	R143	R,METAL 0.1W 10 KOHM + -5%	
HTC0686	Q108	TRANSISTOR 2SC2462C (LC)		RME1450	R144	R,METAL 0.1W 10 KOHM + -5%	
HTC0686	Q109	TRANSISTOR 2SC2462C (LC)		RME1450	R145	R,METAL 0.1W 10 KOHM + -5%	
HTA0268	Q110	TRANSISTOR 2SA1122C (CC)		RME1438	R146	R,METAL 0.1W 1.0 KOHM + -5%	
HTA0268	Q111	TRANSISTOR 2SA1122C (CC)		RME1450	R147	R,METAL 0.1W 10 KOHM + -5%	
HTC0686	Q112	TRANSISTOR 2SC2462C (LC)		RME1436	R148	R,METAL 0.1W 680 OHM + -5%	
HTD0160	Q113	TRANSISTOR DTA124EK		RME1450	R201	R,METAL 0.1W 10 KOHM + -5%	
HTD0161	Q114	TRANSISTOR DTC124EK		RME1450	R202	R,METAL 0.1W 10 KOHM + -5%	
HTF0065	Q115	TRANSISTOR FN3L4Z		RME1448	R203	R,METAL 0.1W 6.8 KOHM + -5%	
HTF0065	Q116	TRANSISTOR FN3L4Z		RME1444	R204	R,METAL 0.1W 3.3 KOHM + -5%	
HTF0065	Q117	TRANSISTOR FN3L4Z		RME1442	R205	R,METAL 0.1W 2.2 KOHM + -5%	
HTD0160	Q118	TRANSISTOR DTA124EK		RME1454	R206	R,METAL 0.1W 22 KOHM + -5%	
HTC0686	Q119	TRANSISTOR 2SC2462C (LC)		RME1450	R207	R,METAL 0.1W 10 KOHM + -5%	
HTC0686	Q120	TRANSISTOR 2SC2462C (LC)		RME1465	R208	R,METAL 0.1W 330 KOHM + -5%	
RME1413	J101	R,METAL 0.1W 0 OHM		RME1448	R209	R,METAL 0.1W 6.8 KOHM + -5%	
RME1413	J102	R,METAL 0.1W 0 OHM		RME1454	R210	R,METAL 0.1W 22 KOHM + -5%	
RME1448	R101	R,METAL 0.1W 6.8 KOHM + -5%		RME1450	R211	R,METAL 0.1W 10 KOHM + -5%	
RME1448	R102	R,METAL 0.1W 6.8 KOHM + -5%		RME1455	R212	R,METAL 0.1W 27 KOHM + -5%	

Parts Code	Symbol	Description	Remarks
RME1446	R213	R,METAL 0.1W 4.7 KOHM + -5%	
RME1450	R214	R,METAL 0.1W 10 KOHM + -5%	
RME1446	R215	R,METAL 0.1W 4.7 KOHM + -5%	
RME1444	R216	R,METAL 0.1W 3.3 KOHM + -5%	
RME1453	R217	R,METAL 0.1W 18 KOHM + -5%	
RME1439	R218	R,METAL 0.1W 2.2 KOHM + -5%	
RME1451	R219	R,METAL 0.1W 15 KOHM + -5%	
RME1438	R220	R,METAL 0.1W 1.0 KOHM + -5%	
RME1456	R221	R,METAL 0.1W 33 KOHM + -5%	
RME1450	R222	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R223	R,METAL 0.1W 10 KOHM + -5%	
RME1446	R224	R,METAL 0.1W 4.7 KOHM + -5%	
RME1448	R225	R,METAL 0.1W 6.8 KOHM + -5%	
RME1456	R226	R,METAL 0.1W 33 KOHM + -5%	
RME1465	R227	R,METAL 0.1W 330 KOHM + -5%	
RME1462	R228	R,METAL 0.1W 100 KOHM + -5%	
RME1462	R229	R,METAL 0.1W 100 KOHM + -5%	
RME1454	R230	R,METAL 0.1W 22 KOHM + -5%	
RME1462	R232	R,METAL 0.1W 100 KOHM + -5%	
RME1450	R235	R,METAL 0.1W 10 KOHM + -5%	
RME1426	R236	R,METAL 0.1W 100 OHM + -5%	
RME1444	R237	R,METAL 0.1W 3.3 KOHM + -5%	
RC00781	R238	R,CARBON 1/4W	
RME1450	R304	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R305	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R306	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R307	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R308	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R309	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R310	R,METAL 0.1W 10 KOHM + -5%	
RME1450	R311	R,METAL 0.1W 10 KOHM + -5%	
RME1462	R401	R,METAL 0.1W 100 KOHM + -5%	
RME1462	R402	R,METAL 0.1W 100 KOHM + -5%	
RME1462	R403	R,METAL 0.1W 100 KOHM + -5%	
RME1434	R404	R,METAL 0.1W 470 OHM + -5%	
RME1434	R405	R,METAL 0.1W 470 OHM + -5%	
RME1434	R406	R,METAL 0.1W 470 OHM + -5%	
RME1434	R407	R,METAL 0.1W 470 OHM + -5%	
RME1434	R408	R,METAL 0.1W 470 OHM + -5%	
RME1434	R409	R,METAL 0.1W 470 OHM + -5%	
RME1434	R410	R,METAL 0.1W 470 OHM + -5%	
RME1434	R411	R,METAL 0.1W 470 OHM + -5%	
RME1434	R412	R,METAL 0.1W 470 OHM + -5%	
RME1434	R413	R,METAL 0.1W 470 OHM + -5%	
RME1434	R414	R,METAL 0.1W 470 OHM + -5%	
RME1434	R415	R,METAL 0.1W 470 OHM + -5%	
RME1434	R416	R,METAL 0.1W 470 OHM + -5%	
RME1434	R417	R,METAL 0.1W 470 OHM + -5%	
RME1434	R418	R,METAL 0.1W 470 OHM + -5%	
RME1434	R419	R,METAL 0.1W 470 OHM + -5%	
RME1434	R420	R,METAL 0.1W 470 OHM + -5%	
RME1434	R421	R,METAL 0.1W 470 OHM + -5%	
RME1434	R422	R,METAL 0.1W 470 OHM + -5%	
RME1434	R423	R,METAL 0.1W 470 OHM + -5%	
RME1434	R424	R,METAL 0.1W 470 OHM + -5%	
RME1434	R425	R,METAL 0.1W 470 OHM + -5%	
RME1434	R426	R,METAL 0.1W 470 OHM + -5%	

Parts Code	Symbol	Description	Remarks
RME1450	R250	R,METAL 0.1W 10 KOHM + -5%	
RME1468	R252	R,METAL 0.1W 1 MOHM + -5%	
RME1467	R253	R,METAL 0.1W 680 KOHM + -5%	
CCG0295	C214	C,CERAMIC 25V 0.1 UF + 80-20%	
CCG0295	C215	C,CERAMIC 25V 0.1 UF + 80-20%	
RME1434	R427	R,METAL 0.1W 470 OHM + -5%	
RME1434	R428	R,METAL 0.1W 470 OHM + -5%	
RME1434	R429	R,METAL 0.1W 470 OHM + -5%	
RME1434	R430	R,METAL 0.1W 470 OHM + -5%	
RME1434	R431	R,METAL 0.1W 470 OHM + -5%	
RMR4139	R432	R,METAL 1/16W 10 KOHM + -0.5%	
RMR4131	R433	R,METAL 0.1W 30.1 KOHM + -1%	
RMR4144	R434	R,METAL 1/16W 27 KOHM + -0.5%	
RME1440	R435	R,METAL 0.1W 1.5 KOHM + -5%	
RMR4143	R436	R,METAL 1/16W 33 KOHM + -0.5%	
CEA0026	C101	C,AL ELYC 35 V 4.7 UF + -20%	
CEU0019	C102	C,AL ELYC 6.3 V 47 UF + -20%	
CCG0295	C103	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C104	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C105	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C106	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0280	C107	C,CERAMIC 50 V 330 PF + -5%	
CCG0277	C108	C,CERAMIC 50 V 180 PF + -5%	
CCG0280	C109	C,CERAMIC 50 V 330 PF + -5%	
CCG0277	C110	C,CERAMIC 50 V 180 PF + -5%	
CCG0295	C111	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C112	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C113	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C114	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C115	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C116	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C117	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C118	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C119	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C120	C,CERAMIC 25 V 0.1 UF + 80-20%	
CSS0168	C203	C,TA ELYC 35 V 0.4 UF + -20%	
CEU0022	C204	C,AL ELYC 16 V 10 UF + -20%	
CEU0022	C205	C,AL ELYC 16 V 10 UF + -20%	
CCG0289	C206	C,CERAMIC 50 V 3300 PF + -10%	
CCG0295	C207	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C208	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C209	C,CERAMIC 25 V 0.1 UF + 80-20%	
CEU0022	C210	C,AL ELYC 16 V 10 UF + -20%	
CCG0295	C211	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0278	C212	C,CERAMIC 50 V 220 PF + -5%	
CEU0019	C213	C,AL ELYC 6.3 V 47 UF + -20%	
CEU0019	C301	C,AL ELYC 6.3 V 47 UF + -20%	
CCG0259	C302	C,CERAMIC 50 V 15 PF + -5%	
CCG0259	C303	C,CERAMIC 50 V 15 PF + -5%	
CCG0295	C401	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C402	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C403	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0266	C404	C,CERAMIC 50 V 30 PF + -5%	
CCG0295	C405	C,CERAMIC 25 V 0.1 UF + 80-20%	

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Parts Code	Symbol	Description	Remarks
CCG0259	C406	C,CERAMIC 50 V 15 PF +-5%	
CEU0022	C407	C,AL ELYC 16 V 10 UF +-20%	
CCG0295	C408	C,CERAMIC 25 V 0.1 UF +80-20%	
JBX2553	CN101	CONNECTOR 5597-24CPB	
JBX2553	CN102	CONNECTOR 5597-24CPB	
CVT0070	CV101	C,VARIABLE TZB04R200BA	
TLL0306	L101	COIL 320MA 22 UH +-10%	
TLL0306	L102	COIL 320MA 22 UH +-10%	
TLL0306	L103	COIL 320MA 22 UH +-10%	
TLL0306	L105	COIL 320MA 22 UH +-10%	
TLE0225	L106	COIL ELF0505SKI-390K	
TLL0306	L107	COIL 320MA 22 UH +-10%	
RNE0112	RV101	VR,METAL EVM-7JGA00B13(1K)	
RNE0112	RV102	VR,METAL EVM-7JGA00B13(1K)	
RNE0115	RV103	VR,METAL EVM-7JGA00B14(10K)	
RNE0114	RV104	VR,METAL EVM-7JGA00B53(5K)	
SSV0285	SW101	SW,SLIDE SSSS9-1-3(B)	
SSV0285	SW102	SW,SLIDE SSSS9-1-3(B)	
SSV0285	SW103	SW,SLIDE SSSS9-1-3(B)	
SSV0227	SW104	SW,SLIDE SSSS2-1-2-A	
SSP0738	SW105	SW,PB SKHHAP	
SSP0738	SW106	SW,PB SKHHAP	
SSP0738	SW107	SW,PB SKHHAP	
SSP0738	SW108	SW,PB SKHHAP	
SSP0738	SW109	SW,PB SKHHAP	
SSP0738	SW110	SW,PB SKHHAP	
SSV0286	SW112	SW,SLIDE SSSS213	
EZZ0101	X1	CERA OSC CSA12.0MT	

Parts Code	Symbol	Description	Remarks
ILT0102	IC902	IC,ANALOG TL-1451ACNS	
ILN0066	IC903	IC,ANALOG NJM4560M	
IPH0011	IC904	IC HA17524FP	
IPT0005	IC905	IC TL431ACLP	
HDS0634	D902	DIODE SFPB-74 (B74)	
HDS0579	D903	DIODE SB02-09CP	
HDS0634	D904	DIODE SFPB-74 (B74)	
HDS0578	D905	DIODE SB05-05CP	
HDD0167	D907	DIODE DCB010	
HDD0159	D909	DIODE DCA010	
HDD0167	D910	DIODE DCB010	
HDD0167	D913	DIODE DCB010	
HTC0762	Q904	TRANSISTOR 2SA1244-Y	
HTI0012	Q905	TRANSISTOR IMX3	
HTA0267	Q906	TRANSISTOR 2SA1121C (SC)	
HTA0389	Q909	TRANSISTOR 2SA1357Y	
HTC0688	Q910	TRANSISTOR 2SC2618C (RC)	
HTC0762	Q911	TRANSISTOR 2SA1244-Y	
HTI0012	Q912	TRANSISTOR IMX3	
HTC0973	Q913	TRANSISTOR 2SC3420GR	
HTI0019	Q914	TRANSISTOR IMB1	
HTD0160	Q916	TRANSISTOR DTA124EK	
HTI0010	Q917	TRANSISTOR IMH1	
HTD0160	Q919	TRANSISTOR DTA124EK	
HTD0161	Q920	TRANSISTOR DTC124EK	
RME1437	R907	R,METAL 0.1W 820 OHM +-5%	
RME1436	R908	R,METAL 0.1W 680 OHM +-5%	
RME1426	R909	R,METAL 0.1W 100 OHM +-5%	
RME1430	R910	R,METAL 0.1W 220 OHM +-5%	
RME1430	R911	R,METAL 0.1W 220 OHM +-5%	
RME1431	R912	R,METAL 0.1W 270 OHM +-5%	
RME1439	R913	R,METAL 0.1W 1.2 KOHM +-0.5%	
RMR4143	R914	R,METAL 1/16W 33 KOHM +-0.5%	
RMR4143	R915	R,METAL 1/16W 33 KOHM +-0.5%	
RMR4143	R916	R,METAL 1/16W 33 KOHM +-0.5%	
RMR4143	R917	R,METAL 1/16W 33 KOHM +-0.5%	
RMR4167	R918	R,METAL 1/16W 5.6 KOHM +-0.5%	
RME1464	R919	R,METAL 0.1W 220 KOHM +-5%	
RME1464	R920	R,METAL 0.1W 220 KOHM +-5%	
RME1457	R921	R,METAL 0.1W 39 KOHM +-5%	
RME1456	R922	R,METAL 0.1W 33 KOHM +-5%	
RMR4139	R930	R,METAL 1/16W 10 KOHM +-0.5%	
RMR4113	R931	R,METAL 1/16W 1 KOHM +-0.5%	
RMR4138	R932	R,METAL 1/16W 3300 OHM +-0.5%	
RME1434	R934	R,METAL 0.1W 470 OHM +-5%	
RME1434	R935	R,METAL 0.1W 470 OHM +-5%	
RMR4140	R937	R,METAL 1/16W 15 KOHM +-0.5%	
RMR4140	R938	R,METAL 1/16W 15 KOHM +-0.5%	
RME1437	R939	R,METAL 0.1W 820 OHM +-5%	
RME1436	R940	R,METAL 0.1W 680 OHM +-5%	
RME1426	R941	R,METAL 0.1W 100 OHM +-5%	
RME1430	R942	R,METAL 0.1W 220 OHM +-5%	
RME1430	R943	R,METAL 0.1W 220 OHM +-5%	
RMR4143	R944	R,METAL 1/16W 33 KOHM +-0.5%	

Parts Code	Symbol	Description	Remarks
RMR4168	R945	R,METAL 1/16W 8.2 KOHM + -0.5%	
RMR4167	R946	R,METAL 1/16W 5.6 KOHM + -0.5%	
RME1450	R947	R,METAL 0.1W 10 KOHM + -5%	
RMR4138	R948	R,METAL 1/16W 3300 OHM + -0.5%	
RME1449	R949	R,METAL 0.1W 8.2 KOHM + -5%	
RME1450	R950	R,METAL 0.1W 10 KOHM + -5%	
RME1440	R951	R,METAL 0.1W 1.5 KOHM + -5%	
RME1440	R952	R,METAL 0.1W 1.5 KOHM + -5%	
RME1438	R953	R,METAL 0.1W 1.0 KOHM + -5%	
RMR4139	R954	R,METAL 1/16W 10 KOHM + -0.5%	
RME1446	R955	R,METAL 0.1W 4.7 KOHM + -5%	
RME1450	R956	R,METAL 0.1W 10 KOHM + -5%	
RME1452	R957	R,METAL 0.1W 15 KOHM + -5%	
RME1458	R958	R,METAL 0.1W 47 KOHM + -5%	
RME1456	R959	R,METAL 0.1W 33 KOHM + -5%	
RMR4139	R961	R,METAL 1/16W 10 KOHM + -0.5%	
RME1430	R963	R,METAL 0.1W 220 OHM + -5%	
RME1413	R964	R,METAL 0.1W 0 OHM	
RME1458	R966	R,METAL 0.1W 47 KOHM + -5%	
RME1460	R967	R,METAL 0.1W 68 KOHM + -5%	
CCG0295	C901	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0613	C902	C,CERAMIC 25 V 0.22 UF +80-20%	
CES0557	C903	C,AL ELYC 25 V 270 UF + -20%	
CCG0295	C904	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0280	C908	C,CERAMIC 50 V 330 PF + -5%	
CES0436	C909	C,AL ELYC 25 V 220 UF + -20%	
CCG0613	C910	C,CERAMIC 25 V 0.22 UF +80-20%	
CCR0300	C911	C,CERAMIC 50 V 1000 PF + -2%	
CCG0278	C912	C,CERAMIC 50 V 220 PF + -5%	
CCG0286	C913	C,CERAMIC 50 V 1000 PF + -10%	
CCG0278	C914	C,CERAMIC 50 V 220 PF + -5%	
CCG0286	C915	C,CERAMIC 50 V 1000 PF + -10%	
CCG0295	C916	C,CERAMIC 25 V 0.1 UF +80-20%	
CEK0085	C917	C,AL ELYC 50 V 1 UF + -20%	
CCG0295	C918	C,CERAMIC 25 V 0.1 UF +80-20%	
CEK0076	C919	C,AL ELYC 16 V 10 UF + -20%	
CCR0128	C926	C,CERAMIC 50 V 0.1 UF +80-20%	
CES0435	C927	C,AL ELYC 16 V 120 UF + -20%	
CCG0295	C928	C,CERAMIC 25 V 0.1 UF +80-20%	
CCR0128	C930	C,CERAMIC 50 V 0.1 UF +80-20%	
CCG0613	C931	C,CERAMIC 25 V 0.22 UF +80-20%	
CES0557	C932	C,AL ELYC 25 V 270 UF + -20%	
CCG0366	C933	C,CERAMIC 50 V 680 PF + -5%	
CES0554	C934	C,AL ELYC 35 V 150 UF + -20%	
CCG0612	C935	C,CERAMIC 50 V 0.1 UF +80-20%	
CES0557	C936	C,AL ELYC 25 V 270 UF + -20%	
CCG0613	C937	C,CERAMIC 25 V 0.22 UF +80-20%	
CES0433	C938	C,AL ELYC 16 V 47 UF + -20%	
CCG0613	C939	C,CERAMIC 25 V 0.22 UF +80-20%	
CCG0295	C940	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0295	C941	C,CERAMIC 25 V 0.1 UF +80-20%	
CCG0292	C942	C,CERAMIC 50 V 10000 PF + -10%	
CCG0295	C943	C,CERAMIC 25 V 0.1 UF +80-20%	
CCR0302	C944	C,CERAMIC 50 V 2200 PF + -2%	
CCG0278	C945	C,CERAMIC 50 V 220 PF + -5%	

Parts Code	Symbol	Description	Remarks
CCG0295	C946	C,CERAMIC 25 V 0.1 UF +80-20%	
CES0433	C947	C,AL ELYC 16 V 47 UF + -20%	
CCR0128	C948	C,CERAMIC 50 V 0.1 UF +80-20%	
CCG0295	C949	C,CERAMIC 25 V 0.1 UF +80-20%	
CCR0128	C950	C,CERAMIC 50 V 0.1 UF +80-20%	
CES0434	C951	C,AL ELYC 16 V 270 UF + -20%	
CES0554	C952	C,AL ELYC 35 V 150 UF + -20%	
CES0435	C953	C,AL ELYC 16 V 120 UF + -20%	
CCG0295	C954	C,CERAMIC 25 V 0.1 UF +80-20%	
CEK0076	C955	C,AL ELYC 16 V 10 UF + -20%	
CES0435	C956	C,AL ELYC 16 V 120 UF + -20%	
CCG0276	C960	C,CERAMIC 50 V 150 PF + -5%	
JBX2211	CN905	CONNECTOR 173278-1 (30P,CAP ASSY-H)	
TLS0120	L901	COIL SK-5M-4W (2A 48UH)	
TLH0064	L903	COIL HK-05S040-1010 (1A 100UH)	
TLT0104	L905	COIL TSL0707330K1R0	
TLT0085	L906	COIL 47 UH + -10% 0.94A	
TLF0067	L907	COIL FL5H 100 UH + -10%	
TLT0085	L908	COIL 47 UH + -10% 0.94A	
TLF0067	L909	COIL FL5H 100 UH + -10%	
TLT0104	L910	COIL TSL0707330K1R0	
8551807 C	T901	XFMR TC-0576C	

MB1 UNIT

Parts Code	Symbol	Description	Remarks
IDS0569	IC1	IC,LOGIC SC14S81F/TC4S81F (C2)	
HDD0147	D1	DIODE DS135D	
HDD0168	D2	DIODE DCC010	
HDD0168	D3	DIODE DCC010	
HDD0168	D4	DIODE DCC010	
HDD0147	D5	DIODE DS135D	
HTK0126	Q1	TRANSISTOR 2SK443-AJ6	
HTD0161	Q2	TRANSISTOR DTC124EK	
HTA0268	Q3	TRANSISTOR 2SA1122C (CC)	
HTC0686	Q4	TRANSISTOR 2SC2462C (LC)	
RME1434	R1	R,METAL 0.1W 470 OHM + -5%	
	R2	Not used	
RME1450	R3	R,METAL 0.1W 10 KOHM + -5%	
RME1468	R4	R,METAL 0.1W 1.0 MOHM + -5%	
RME1434	R5	R,METAL 0.1W 470 OHM + -5%	
RME1434	R6	R,METAL 0.1W 470 OHM + -5%	
RME1446	R7	R,METAL 0.1W 4.7 KOHM + -5%	
RME1426	R8	R,METAL 0.1W 100 OHM + -5%	
RME1434	R9	R,METAL 0.1W 470 OHM + -5%	
RME1450	R10	R,METAL 0.1W 10 KOHM + -5%	
RME1438	R11	R,METAL 0.1W 1.0 KOHM + -5%	
RME1426	R12	R,METAL 0.1W 100 OHM + -5%	
RME1462	R13	R,METAL 0.1W 100 KOHM + -5%	
RME1462	R14	R,METAL 0.1W 100 KOHM + -5%	
CEK0335	C1	C,AL ELYC 25 V 470 UF + -20%	
CCG0213	C2	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0213	C3	C,CERAMIC 50 V 0.1 UF + 80-20%	
CEK0339	C4	C,AL ELYC 6.3 V 1000 UF + -20%	
CCG0213	C5	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0295	C6	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C7	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C8	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C9	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C10	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0612	C11	C,CERAMIC 50 V 0.1 UF + 80-20%	
CCG0295	C12	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C13	C,CERAMIC 25 V 0.1 UF + 80-20%	
CCG0295	C14	C,CERAMIC 25 V 0.1 UF + 80-20%	
EFH0251	(F1)	HLDR,FUSE H-0011-1	
JBX2554	CN1	CONNECTOR 174215-3	
JBX2458	CN2	CONNECTOR 174215-1 (30P,PLUG ASSY-V	
JBX2554	CN3	CONNECTOR 174215-3	
JBX2554	CN4	CONNECTOR 174215-3	
JBX2458	CN5	CONNECTOR 174215-1 (30P,PLUG ASSY-V	
JBP0454	CN6	CONNECTOR PCN12A-20P-2.54DS	
JBX2553	CN7	CONNECTOR 5597-24CPB	
JBX2553	CN8	CONNECTOR 5597-24CPB	
JBD0045	CN9	CONNECTOR DF11-14DP-2DSA	
JBD0044	CN10	CONNECTOR DF11-12DP-2DSA	
JBB0039	CN11	CONNECTOR B5B-PH	
JBD0042	CN12	CONNECTOR DF11-8DP-2DSA	

Parts Code	Symbol	Description	Remarks
JBD0041	CN13	CONNECTOR DF11-6DP-2DSA	
JBD0041	CN14	CONNECTOR DF11-6DP-2DSA	
JMT0029	CN15	CON,MULTI TCS7936-42-201	
EFG0671	F1	FUSE TSC UL,CSA 125V 2.0A	NTSC
EFG0631	F1	FUSE ST 1.6A **	PAL

LENS UNIT

Parts Code	Symbol	Description	Remarks
8522662C2	CN12B	CABLE ASSY DF11-8DS-2C/7P-SAN	

CHASSIS

Parts Code	Symbol	Description	Remarks
JMH0096	CN951	CON,MULTI HR10A-10R-12SB(01)	
JHB0088	CN1001	CON,COAX BNC071	
JMH0086	CN1002	CON,MULTI HR10A-7R-4S(01)	
JHB0088	CN1004	CON,COAX BNC071	
JPR0021	CN1005	CONNECTOR RM12BRD-3PH	
BBH0092	J1001	CBL,RIBBON BD-24N-24L-8.5TL-4.5S	
BBH0092	J1002	CBL,RIBBON BD-24N-24L-8.5TL-4.5S	
8522662 E	J1003	CABLE ASSY DF11-12DS/DF11-12DS L = 130	
8522662 A	J1004	CABLE ASSY DF11-6DS L = 50	
8522662 B	J1005	CABLE ASSY DF11-6DS L = 70	

9. MECHANICAL PARTS LIST AND EXPLODED VIEW HV-C10

Part Code	Symbol	Description	Q'ty
1	2135607A	Front Frame	1
2	3243426A	Top Frame	1
3	3243429A	Top Shassis	1
4	3243432A	Guide Rail	2
5	8553984A	Connector Cover	1
6	3243430A	Bottom Shassis	1
7	2135608A	Rear Frame	1
8	8545384A	Connector Panel	1
9	8545388A	O Ring	4
10	8545400A	Cap	3
11	8546496A	Plate Shield	4
12	8553628A	Camera Mount	1
13	8553941A	Shieet	1
101	8487483A	Screw Bind HD M4×20 Dnip	4
102	XCA1817	Screw Bind HD M3×6 Dnip	11
103	XCA6004	Screw Bind HD M2.6×4 Nip	13
104	XCA6310	Screw Bind HD M3×10 Nip	4
105	XCA1911	Screw Tapping M2.6×8 Dnip	2
106	8360720E	Screw Sems M4×10 SW Nip	4
107	XCA0013	Washer	4
G01	22X0421	CCD Prism Assy (For NTSC)	1
G01	22X0422	CCD Prism Assy (For PAL)	1
G02	22X0423	LENS Connector Assy	1
G03	22X0424	PRA unit (For NTSC)	1
G03	22X0425	PRA unit (For PAL)	1
G04	22X0426	PRC unit	1
G05	22X0427	DTL unit (For NTSC)	1
G05	22X0428	DTL unit (For PAL)	1
G06	22X0429	ENC unit (For NTSC)	1
G06	22X0430	ENC unit (For PAL)	1
G07	22X431	SG/GL unit (For NTSC)	1
G07	22X0432	SG/GL unit (For PAL)	1
G08	22X0433	PS unit	1
G09	22X0434	MB unit (For NTSC)	1
G09	22X0435	MB unit (For PAL)	1
G10	22X0436	CPU unit (For NTSC)	1
G10	22X0437	CPU unit (For PAL)	1
G11	8543971E	Right Cover Assy (M List)	1
G12	8543973E	Left Cover Assy (M List)	1
G13	8543974B	CPU Panel Assy (M List)	1
G14	8539409E	Bottom Flame Assy (M List)	1
201	22X0438	Lens Mount	1
202	8497381A	Mount Lock Lever	1
203	22X0439	Filter Disk Assy	1
204	855175A	EXT-4 unit	1
205	8555175B	EXT-5 unit	1
206	8486397B	EXT Draw	1
G201	22X0440	Ext unit Assy	1

11. VA-C10 RGB ADPTOR

11-1 RGB adaptor parts list
VA-C10 PCB ASSY

VA-C10 CHASSIS

Part Code	Symbol	Description	Remarks
HTC0688	Q1	Transistor 2SC2618C (RC)	
HTC0688	Q2	Transistor 2SC2618C (RC)	
HTC0688	Q3	Transistor 2SC2618C (RC)	
RME1440	R1	R, Metal 1/10W 1.5k Ω \pm 5%	
RME1450	R2	R, Metal 1/10W 10k Ω \pm 5%	
RME1444	R3	R, Metal 1/10W 3.3k Ω \pm 5%	
RME0862	R4	R, Metal 1/8W 68 Ω \pm 5%	
RME1440	R5	R, Metal 1/10W 1.5k Ω \pm 5%	
RME1450	R6	R, Metal 1/10W 10k Ω \pm 5%	
RME1444	R7	R, Metal 1/10W 3.3k Ω \pm 5%	
RME0862	R8	R, Metal 1/8W 68 Ω \pm 5%	
RME1440	R9	R, Metal 1/10W 1.5k Ω \pm 5%	
RME1450	R10	R, Metal 1/10W 10k Ω \pm 5%	
RME1444	R11	R, Metal 1/10W 3.3k Ω \pm 5%	
RME0862	R12	R, Metal 1/8W 68 Ω \pm 5%	
CEK0074	C1	C, Al, Elyc 6.3V 47 μ F \pm 20%	
CEK0074	C2	C, Al, Elyc 6.3V 47 μ F \pm 20%	
CCG0275	C3	C, Ceramic 50V 120pF \pm 5%	
CCG0275	C4	C, Ceramic 50V 120pF \pm 5%	
CCG0275	C5	C, Ceramic 50V 120pF \pm 5%	
CCG0275	C6	C, Ceramic 50V 120pF \pm 5%	
CCG0275	C7	C, Ceramic 50V 120pF \pm 5%	
CCG0275	C8	C, Ceramic 50V 120pF \pm 5%	
JBD0044	CN1	Connector DF11-12DP-2DSA	
JBD0042	CN2	Connector DF11-8DP-2DSA	
CVE0052	CV1	C, Variable ECR-HA070M11	
CVE0052	CV2	C, Variable ECR-HA070M11	
CVE0052	CV3	C, Variable ECR-HA070M11	
TLL0194	L1	Coil 210MA 100 μ H \pm 10%	
TLL0194	L2	Coil 210MA 100 μ H \pm 10%	
TLF0054	L3	Coil 100MA 1 μ H \pm 10%	
TLF0054	L4	Coil 100MA 1 μ H \pm 10%	
TLF0054	L5	Coil 100MA 1 μ H \pm 10%	

Part Code	Symbol	Description	Remarks
JHB0088	CN101	Con, Coax BNC071	
JHB0088	CN102	Con, Coax BNC071	
JHB0088	CN103	Con, Coax BNC071	
JHB0088	CN104	Con, Coax BNC071	
JHB0088	CN105	Con, Coax BNC071	
JHB0088	CN106	Con, Coax BNC071	
8556149C	J101	DF11-8DS-2C L=100	
8556149D	J102	PCN10-20S/DF11-12DS L=60	
SSS0113	SW101	SW, See Saw JWZ2120-0101	

12. AP-C10 AC ADPTOR
12-1 ELECTRICAL PARTS LIST
AP-C10 PCB ASSY

Part Code	Symbol	Description	Remarks
HDR0259	△ D1	Diode RK-46	
HDR0259	△ D2	Diode RK-46	
HDR0259	△ D3	Diode RK-46	
HDR0259	△ D4	Diode RK-46	
HNH0009	D5	Diode, zen HZ18-1L	
HTD0228	Q1	Transister 2SD2092	
RCE0769	R1	R, Carbon 1/4W 1.0kΩ ± 5%	
RCE0765	R2	R, Carbon 1/4W 470Ω ± 5%	
RCE0783	R3	R, Carbon 1/4W 15kΩ ± 5%	
RCE0781	R4	R, Carbon 1/4W 10kΩ ± 5%	
CQQ0134	△ C1	C, Plastic 250V 0.1UF ± 5%	
CEK0336	△ C2	C, Al Elyc 35V 3300UF ± 20%	
CEK0337	C3	C, Al Elyc 35V 220UF ± 20%	
CQA0127	C4	C, Plastic 50V 1000pF ± 10%	
CEK0213	C5	C, Al Elyc 25V 100UF ± 20%	
JBD0040	CN1	Connector DF11-4DP-2DSA	
8522662K	CN2	Cable Assy 3P-SAN L = 120	
8522662J	CN3	Cable Assy 4P-SAN L = 100	
EFG0770	△ F1	Fuse TSC UL, CSA 125V 3.15A J, U	
EFG0668	△ F1	Fuse ST 250V 2A E, K	
EFG0251	△ F1	Holder, Fuse H-0011-1	

AP-C10 CHASSIS

Part Code	Symbol	Description	Remarks
HTA0358	△ Q101	Transistor 2SA1444L	
JYX0490	(CN102)	PCN10-2630SC(583-0102-9)	
JYD0102	(CN103)	Contact DF11-2428SC	
JBP0455	CN102	Connector PCN10-2OS-2.54C	
JBD0060	CN103	Connector DF11-4DS-2C	
BBZ0073	△ P101	Cord Set VM165B 2.5M	J
8443271C	△ P101	Cord Set SJT#18 0033 8F CRY	U
8443271D	△ P101	Cord Set VM0309 8F	E
8443271E	△ P101	Cord Set NR BS Cord 2.5M	K
SSS0113	△ SW101	SW, See Saw JWZ2120-0101	
TTT0440	△ T101	XFMR TC-0577J	
TTT0441	△ T101	XFMR TC-0577U	
TTT0443	△ T101	XFMR TC-0577E	
TTT0444	△ T101	XFMR TC-0577K	

**12-3 Mechanical parts list and exploded view
AP-C10**

Part Code	Symbol	Description	Q'ty
1	8556997A	Cover Assy (M List)	1
2	4051873A	O Ring	2
3	8549913A	AC Bracket (For J. E. K)	1
3	8549913B	AC Bracket (For U only)	1
4	4054721A	Bush (For J only)	1
4	4054721C	Bush (For U. E. K)	1
5	XCA2204	Screw Pan HED M4 x60 Dnip	2
6	8556556A	Tube	2
101	8370596E	Screw Flat HD M2.6 x5 Dnip	3
102	XCA6008	Screw Bind HD M2.6 x8 Nip	2
103	XCA1817	Screw Bind HD M3 x6 Dnip	3
104	8425512A	Screw Sems M4 x6 Znp (For U. E. K)	1
105	XCA1881	Spring Lock Washers	2
106	XCA1562	Washers	2
107	XCA6406	Screw Bind HD M4 x6 Nip	2
G01 Δ	22X0441	PCB Assy	1
G02	8556997B	Plate Assy (M List)	1

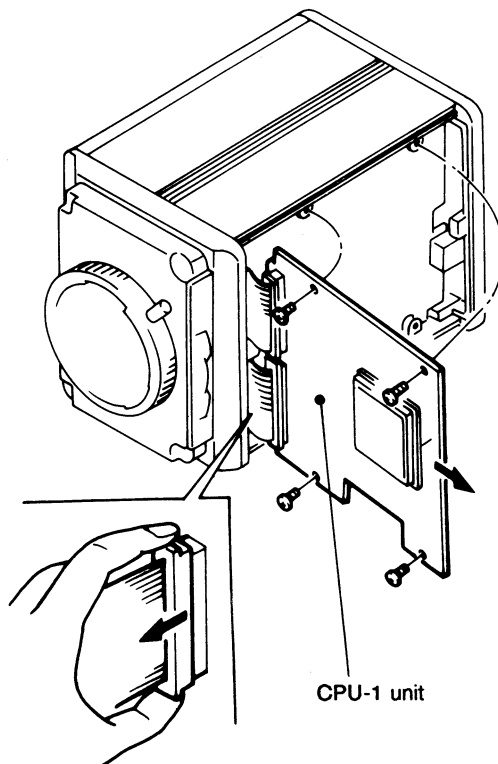
NOTE:

The Δ marked components are critical to safety.
Replace only with same components as specified.

5. MAINTENANCE

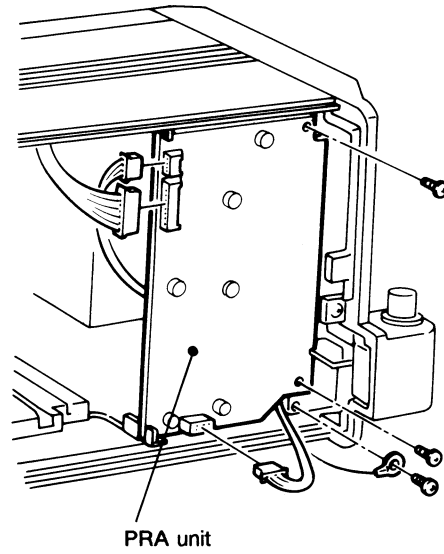
5-1 How to remove CPU-1 unit

- (1) Remove the fixing screws of the CPU-1 unit and swing open the CPU-1 unit, then remove the flat cables.

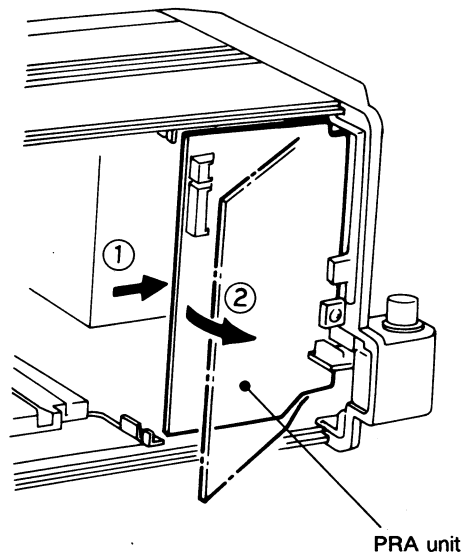


5-2 How to remove CCD prism block

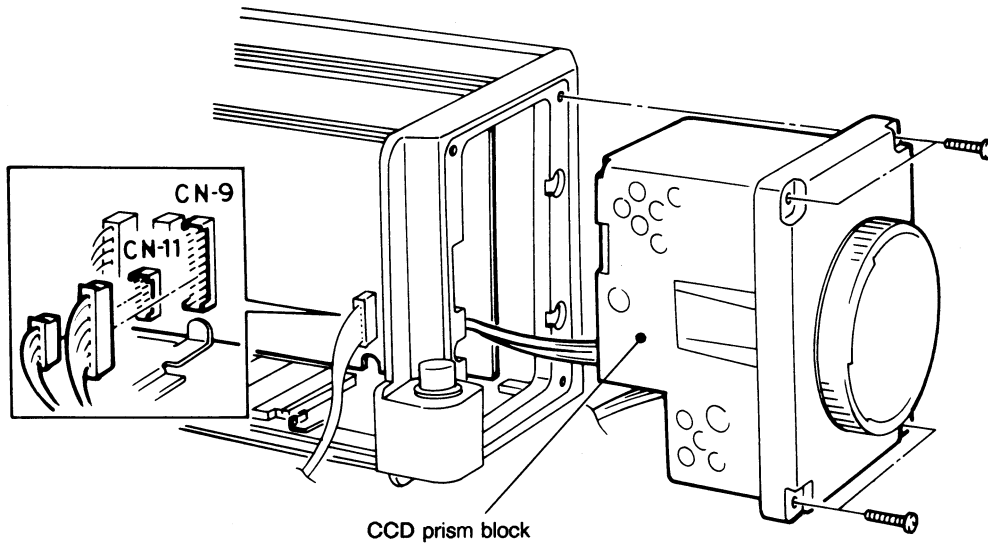
(1) Remove the connectors from the PRA unit, then remove the fixing screws of the PRA unit.



(2) Remove the PRA unit from the body while pressing the PRA unit forward.



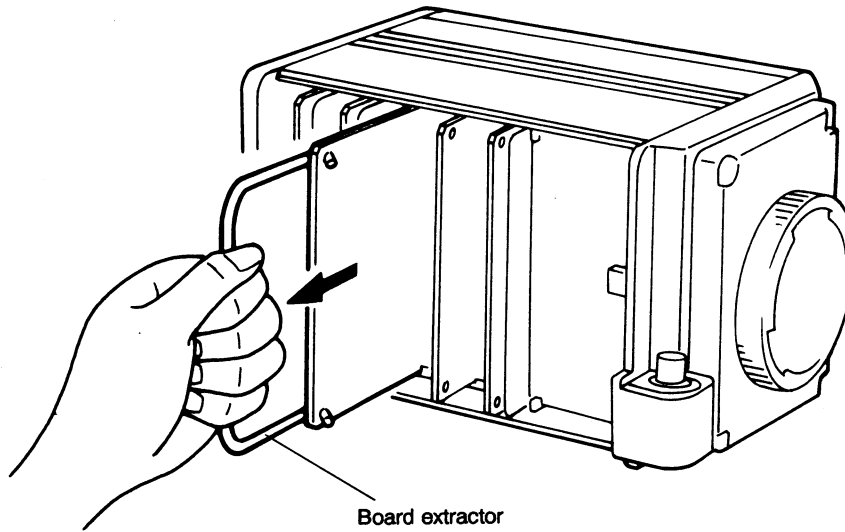
(3) Disconnect the connectors of the MB unit while pulling the CCD prism block.



5-3 Board extractor and extension board for unit

(1) To extract a unit, use the board extractor.

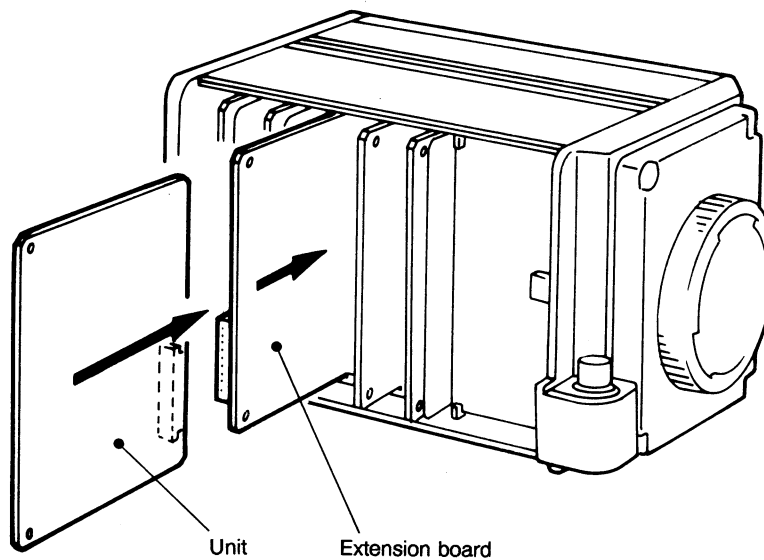
Board extractor:8486397B(optional)



(2) To check and adjust a unit, use the extension board.

Extension boards:EXT-4, 8555175A'(optional) for 50-pin connector

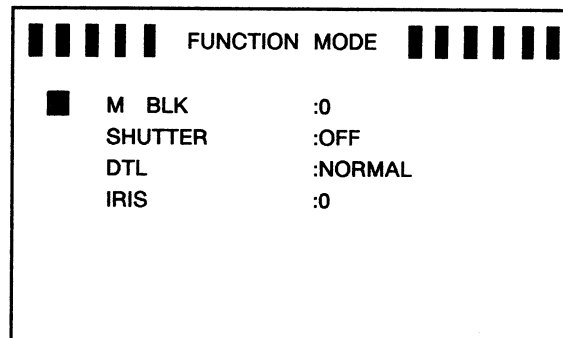
EXT-5, 8555175B(optional) for 30-pin connector



6. ADJUSTMENTS

6-1 Standard shooting conditions

- | | |
|--|---|
| (1) Illumination: | 2000 lux |
| (2) Color temperature: | 3200K |
| (3) Lens: | Canon PH12×7.5BKRSXH12
Fujinon lens S12×7.5BRM-27 |
| (4) Iris: | f5.6(89.9% reflectance, logarithmic) |
| (5) Power supply: | AP-60B or +12V regulated power supply (2A) |
| (6) Ambient temperature
and humidity: | 20 ± 10°C, 45 to 85% |
| (7) Monitor: | Color or monochrome monitor adjusted to the
normal conditions |
| (8) Test charts | (a) Gray scale chart (89.9% reflectance,
logarithmic)
(b) Resolution chart
(c) Registration chart
(d) IN-MEGA chart |
| (9) GAIN switch: | 0dB |
| (10) BAR/CAM switch: | CAM |
| (11) White balance mode switch: | PRESET |
| (12) SHUTTER switch: | OFF |
| (13) Filter disc: | 1 (3200K) |
| (14) ZEBURA switch: | OFF (FP-C10 only) |
| (15) FUNCTION MODE screen display: | |



6-3 Adjustment of power supply and signal generator

PS unit

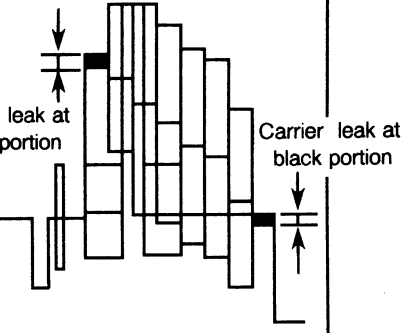
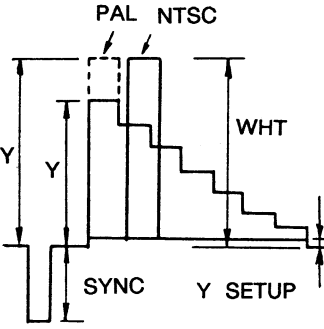
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks	
1	1) Check of each output voltage		CN905		HV-C10	FP-C10	
			Pin No.				
			+5V		6	5.0 ± 0.2V	
			+21V		9	21.0 ± 1.0V	
			-5V		7	-5.0 ± 0.2V	
	-10V	10	-10.0 ± 1.0V				
	+9V	FP-C10 MIC unit CN501-3			9.0 ± 0.4V		
	2) Check of STAND by mode				Check that all the output voltages are zero volts.		

SG/GL unit

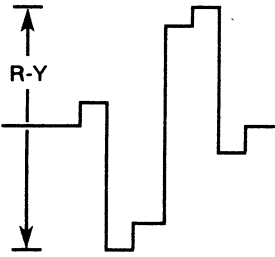
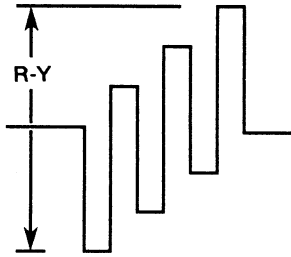
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	SC frequency adjustment	RV702 (SC DC)	TP702		+ 2.5V DC	
		CV701 (SC VCO)	TP704		3579545 ± 10Hz 4433619 ± 10Hz	(NTSC) (PAL)
2	SC-H phase adjustment	RV701 (SC-H FINE)	VIDEO OUT	Connect SC-H meter.	Note 1) This is not adjusted by the factory but adjusted upon request from customer. Note 2) If the above specifications are not fulfilled, open jumper chip J705 and short J704, then make readjustments.	
3	H VCO adjustment	CV702	TP703	Feed the genlock signal.	+ 2.5V DC + 3.0V DC	(NTSC) (PAL)

6-4 Adjustment of color bars

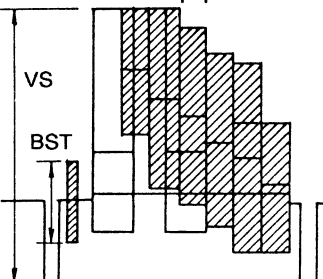
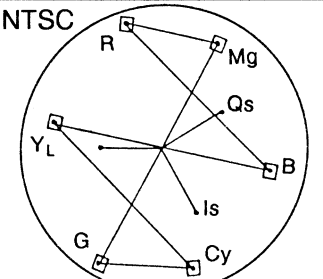
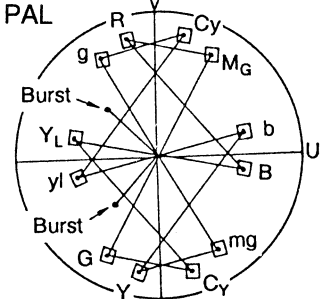
ENC unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	Carrier balance adjustment	RV504 (Q/U BLK) RV506 (I/V BLK) RV507 (V. BLK2) RV505 (U. BLK2)	VIDEO OUT	BAR/CAM switch: BAR	 <p>Carrier leak at white portion</p> <p>Carrier leak at black portion</p>	
2	White balance adjustment	RV602 (R BAR) RV603 (B BAR)			<p>Minimize the carrier leak at the black level by RV504 and RV506 (NTSC and PAL), and RV507 and RV505 (PAL only).</p> <p>Minimize the carrier leak at the white level by RV602 and RV603.</p>	
3	Y level adjustment	RV604 (Y LEV)	Pin 18	CPU unit SW112:COMP Terminal RGB out with 75Ω.	 <p>PAL NTSC</p> <p>Y</p> <p>Y</p> <p>WHT</p> <p>SYNC</p> <p>Y SETUP</p>	

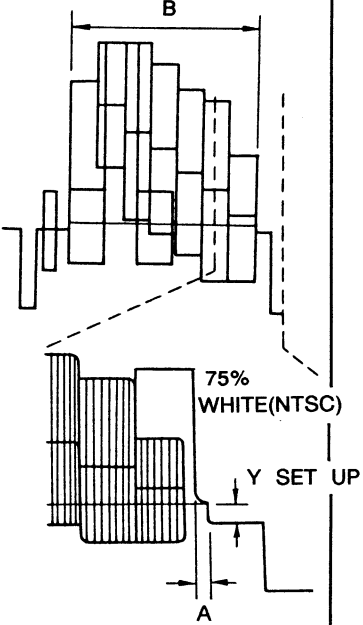
ENC unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
4	Y setup adjustment	RV607 (Y SET UP)			Y SETUP : 0 (PAL) : 7.5 ± 1 IRE (NTSC, U) Y : 100 ± 2 IRE (NTSC) 0.7 ± 0.015 Vp-p (PAL)	
5	Sync level adjustment	RV608 (SYNC LEV)			SYNC : 40 ± 2 IRE (NTSC) $:0.3 \pm 0.015$ Vp-p (PAL)	
6	R-Y level adjustment	RV605 (R-Y LEV)	Pin 17		R-Y: 0.7 ± 0.01 Vp-p 	
7	B-Y level adjustment	RV606 (B-Y LEV)	Pin 19		B-Y: 0.7 ± 0.01 Vp-p 	

ENC unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
8	VS level adjustment	RV510 (VS LEV)	VIDEO OUT	Terminate the VIDEO OUT connector with 75 Ω.	<p>VS: $1.0 \pm 0.01V_{p-p}$</p> 	
9	Color bar vector adjustment	RV508 (QUAD) RV501 (Q/U LEV) RV509 (C LEV) RV503 (BST φ) RV502 (BST LEV) RV506 (I/V BLK) RV507 (PAL only) (V. BLK 2) RV504 (Q/U BLK) RV505 (PAL only) (U. BLK 2)	VIDEO OUT		<p>NTSC</p>  <p>PAL</p>  <p>(1) Make fine adjustment of carrier balance by RV504 to RV507. (Refer to item 4.3.2)</p> <p>(2) Adjust RV 508 so that the phase for Qs and Is is 90°. (NTSC) Make the levels of Burst equal. (PAL)</p> <p>(3) Adjust RV501, 503 and 507 so that the color bar phase is the vector phase shown above.</p> <p>(4) Adjust RV502 so that the burst level is as follows. 40 ± 2 IRE (NTSC) $0.3 \pm 0.015V_{p-p}$ (PAL)</p>	

ENC unit

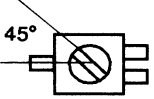
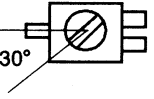
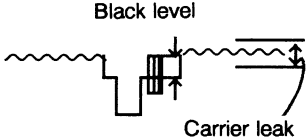
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
10	Bar phase adjustment	RV601 (BAR P)	VIDEO OUT	BAR/CAM: BAR	<p>A : $2 \pm 1 \mu\text{s}$ (NTSC) B : $49 \pm 1 \mu\text{s}$ (PAL)</p>  <p>The diagram shows a video signal waveform with a series of horizontal bars. Dimension 'B' indicates the total duration of the bar sequence. Dimension 'A' indicates the duration of a single bar. A label '75% WHITE (NTSC)' points to the amplitude of the bars. A label 'Y SET UP' points to the vertical sync level. Dashed lines indicate a magnified view of the bar sequence.</p>	

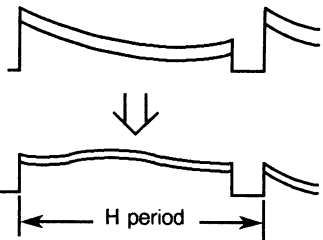
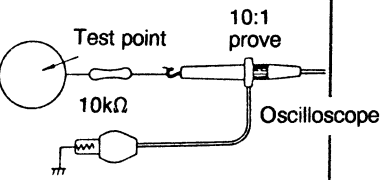
6-5 Adjustment of black balance

Make adjustments in item 6-1 to 6-3, then make adjustments in this item. When replacing the PRA unit or the sensor section, also make adjustments in this item.

PRA, PRC unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	CPU ADJUST MODE setting				Establish ADJUST MODE. HV-C10: CPU1-SW104:ON FP-C10: CPU2-SW106:ON The following characters are displayed on the monitor screen.	
					ADJUST MODE Select the item with the FUNCTION switch. Select the status of "GAMMA" or "LEV ADJ" with the UP/DOWN switches. Press both the UP/DOWN switches simultaneously to initialize the above screen.	
2	CCD clock carrier leak adjustment	PRA FL11 FL51 FL91	PRC TP151 TP191 TP231	<ul style="list-style-type: none"> ●BAR/CAM: CAM ●GAIN:0dB ●Lens:closed 		Minimize the CCD clock carrier leak.

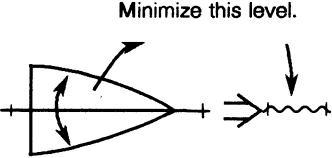
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
2	Black set adjustment	PRC-3 RV152 (R. BLK) RV157 (G. BLK) RV161 (B. BLK) RV152 (R. BLK SET) RV155 (G. BLK SET) RV160 (B. BLK SET)	VIDEO OUT	<p>•BAR.CAM: CAM</p> <p>•Lens:closed</p> <p>•PRC</p> <p>RV154 (RrB)</p> <p>RV159 (RrB)</p> <p>RV163 (BrB)</p> <p>Set the above controls as shown below.</p>  <p>45°</p> <p>RV153 (RrP)</p> <p>RV158 (GrP)</p> <p>RV162 (BrP)</p> <p>Set the above controls as shown below.</p>  <p>30°</p>	<p>(1) Adjust RV152, RV157 and RV161 on the PRC unit with GAIN set to 0dB, and minimize the carrier leak when the black level is set to the value shown below .</p>  <p>Black level</p> <p>Carrier leak</p> <p>35mVp-p</p> <p>90mVp-p</p> <p>20mVp-p</p> <p>(2) Adjust RV152, RV155, and RV160 with GAIN set to +18dB, and set the black level to the same level as the above (1).</p> <p>(3) Repeat the above steps so that the carrier leak is minimized and the black level does not vary even when gain is changed.</p>	<p>(NTSC J)</p> <p>(NTSC U)</p> <p>(PAL)</p>

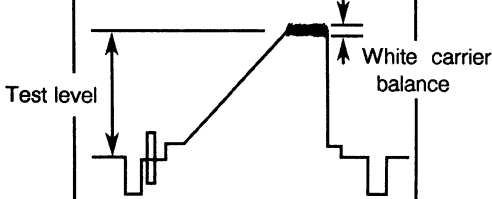
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
3	Dark shading adjustment	PRA RV124 (R HSAW) RV121 (R HPARA) RV125 (G HSAW) RV122 (G HPARA) RV126 (B HSAW) RV123 (B HPARA)	R OUT G OUT B OUT	<ul style="list-style-type: none"> • Lens: closed • BAR/CAM: CAM • GAIN: + 18dB 	<p>While observing each output of RGB signals on the oscilloscope, adjust the controls so that the H period is as flat as possible.</p>  <p>Note: Use a resistor of approximately 10 kΩ between the test point and the 10:1 probe. Then noise is eliminated and adjustment is made easier.</p> 	

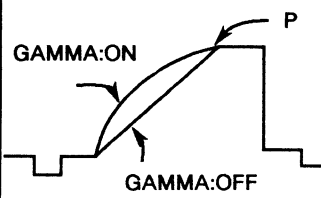
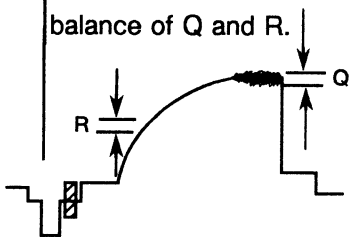
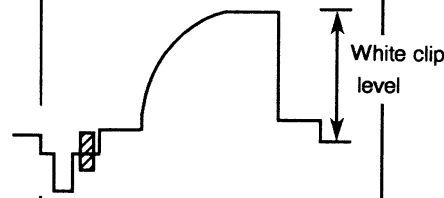
6-6 Adjustment of test pulse

PRC, DTL and CPU units

Make adjustments in item 6-4, then make adjustments in this item.

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	G signal level adjustment.	RV351 (1H LEV)	CN-3 IN 21 OUT 6	<ul style="list-style-type: none"> • BAR/CAM: CAM • GAIN: 0dB PRC unit • SW271 (TEST): ON • DTL: OFF 	<p>Adjust the output level to the input level.</p> <p>Set DTL to OFF on the FUNCTION screen to establish ADJUST MODE.</p>	
2	V balance adjustment	RV352 (2H LEV)	TP6	DTL: Normal	<p>Minimize this level.</p> 	

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
3	White balance adjustment	CPU unit: RV101 (R FINE) RV102 (B FINE)	VIDEO OUT	<ul style="list-style-type: none"> • VAR/CAM: CAM • GAIN:0dB • PRC SW271 (TEST):ON 	<p>1) Establish ADJUST MODE. HV-C10: CPU – SW104:ON FP-C10: CPU – SW106:ON GAMMA:ON → OFF LEV ADJ:OFF→ ON</p> <p>2) Set the cursor to "WHT ADJ" on the ADJUST MODE screen, then press the AUTO WHT button.</p> <p>3) Minimize the white carrier balance with RV101 and RV102 on the CPU unit.</p> 	
4	Test level adjustment	PRC unit RV164 (TEST.L)			<p>1) Adjust the test level with RV164 on the PRC unit. 100 ± 2 IRE 700 ± 15mVp-p</p> <p>2)After adjustment, press the AUTO WHT button to display "WHT ADJ: SET".</p>	(NTSC) (PAL)

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
5	Gamma adjustment	PRC unit RV158 (G gamma P)	G OUT	<ul style="list-style-type: none"> • BAR/CAM: CAM • GAIN:0dB • PRC SW271(test): ON • CPU SW104 (ADJUST):ON 	Adjust RV158 so that gamma point "P" does not vary even if GAMMA is turned ON and OFF. 	
		PRC unit: RV153 (R gamma P) RV162 (B gamma P) RV154 (R gamma B) RV163 (B gamma B)	VIDEO OUT		Turn on GAMMA, and adjust the controls to minimize the carrier balance of Q and R. 	
6	Knee point adjustment	PRC unit RV165 (KNEE P)			<ol style="list-style-type: none"> 1) LEV ADJ:ON →OFF 2) Turn RV165 CCW from the fully CW position, and stop turning it when the test level in item 2 starts to decrease. 	
7	White clip adjustment	DTL unit RV404 (WHT CLIP)			<ol style="list-style-type: none"> 1) Adjust white clip with gain set to +9dB.  	
					<ol style="list-style-type: none"> 2) After adjustment, press both the UP/DOWN switches simultaneously to initialize ADJUST MODE. 	(NTSC) (PAL)

6-7 Adjustment of video signal system

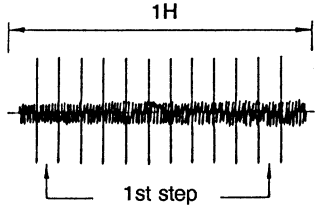
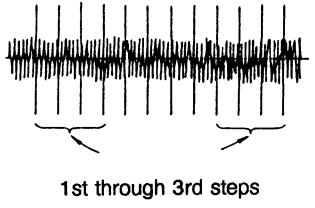
PRA, PRC and DTL units

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	White balance adjustment and sensitivity setting	PRAQ unit RV11 (R GAIN) RV51 (G GAIN) RV91 (B GAIN)	VIDEO OUT	<ul style="list-style-type: none"> •BAR/CAM: CAM •GAIN:0dB •Lens: Manual •Filter disc:1 •Illumination: 2000 lux •Chart: Gray scale •Lens iris:f5.6 •PRC sw271 (test):OFF 	<ol style="list-style-type: none"> 1) Establish ADJUST MODE. LEV ADJ:OFF →ON 2) Shoot gray scale chart. 3) Set lens iris to f5.6. 4) White adjusting RV11, RV51 and RV91 alternately to minimize the carrier leak of white peak, adjust the Y level 	
<div style="border: 1px solid black; padding: 5px;"> <p>■■■■■■ FUNCTION MODE ■■■■■■</p> <ul style="list-style-type: none"> ■ GAMMA :ON LEV ADJ :OFF WHT ADJ :PRESET M BLK SET :PRESET LENS : REMOTE :62500b/s </div>						
2	Gamma adjustment	PRC RV154 (R gamma B) RV159 (G gamma B) RV163 (B gamma B)			<p>After adjustment in item 1, adjust RV154, RV159 and RV 163 alternately. Then, set cross point level of the gray scale to the following value to minimize the carrier leak at the gray portion.</p>	
					<ul style="list-style-type: none"> 50 ± 3 IRE 54 ± 3 IRE 350 ± 20mVp-p 	<ul style="list-style-type: none"> (NTSC J) (NTSC U) (PAL)

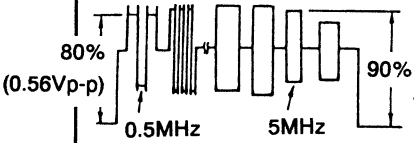
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
3	Auto iris level adjustment	CPU unit RV104 (IR SET)	VIDEO OUT	<ul style="list-style-type: none"> • BAR/CAM: CAM • GAIN:0dB 	Shoot a gray scale chart, and adjust RV104 so that the video level is 100%.	
4	Black balance check				<ol style="list-style-type: none"> 1) Filter disc:1 → 4 2) Make readjustments in item 6-5.3 so that the black level and black balance do not change even if gain is changed from 0dB to + 18dB. Do not change gamma P and gamma B of each channel of the PRC unit. 	
5	Read of M BLK SET				<ol style="list-style-type: none"> 1) Set the cursor to B BLK SET in ADJUST MODE, and press the AUTO BLK button. 2) "M BLK SET:OK" is displayed, and the black balance data is read in the CPU. 3) Set CPU ADJUST SW to OFF. 	

6-8 Adjustment of DTL circuit

DTL unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
1	Level DEP adjustment	RV402 (LEVEL-DEP)	TP6	SW1(DTL) on DTL-4 unit:ON	<p>(1) Shoot the gray scale chart.</p> <p>(2) Adjust RV402 so that the noise on the 1st (lowest) step of the 11-step gray scale chart is clipped.</p> 	
2	+ 18dB level DEP adjustment	RV7 (+ 18dB DEP)	TP4		<p>(1) After the adjustment on the preceding page, set the GAIN switch to + 18dB.</p> <p>(2) Adjust RV7 so that the noises on the 1st through 3rd steps of the 11-step gray scale chart are clipped.</p> 	

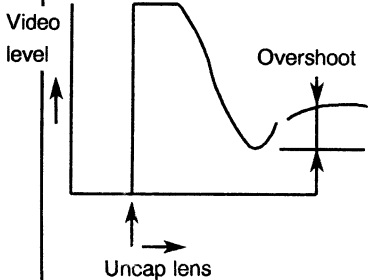
DTLunit

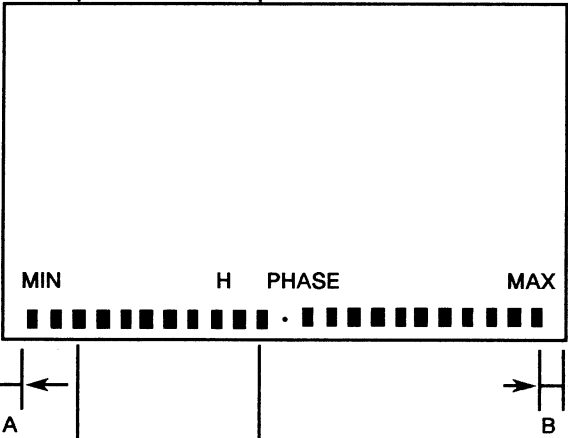
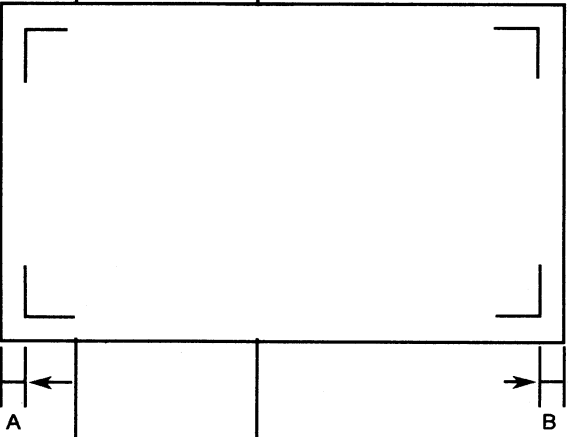
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
5	DTL level adjustment	RV401 (DTL)	VIDEO OUT		<p>(1) Shoot the IN-MEGA chart.</p> <p>(2) Adjust the lens iris so that the level of 0.5MHz component is 80% (0.58Vp-p).</p> <p>(3) Adjust RV401 so that the peak level at 5MHz is 90% (0.6Vp-p).</p>  <p>The diagram shows a complex waveform with two distinct frequency components. The first component is labeled '0.5MHz' and has a peak-to-peak voltage of 0.58V, which is 80% of the total signal level. The second component is labeled '5MHz' and has a peak-to-peak voltage of 0.6V, which is 90% of the total signal level.</p>	

Set DTL to NORMAL on the FUNCTION mode screen, then make adjustments.

6-9 Adjustment of other items

CPU unit

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
	Iris speed adjustment	HV-C10 CPU unit RV103 (IR SPD) FP-C10 IRIS GAIN control of lens	VIDEO OUT		<p>Shoot the gray scale chart.</p> <p>Cap the lens first, then uncap the lens, and adjust RV103 so that overshoot is less than 50mVp-p.</p> <p>Repeat this procedure unit hunting occurs only once or less.</p> 	
				HV-C10:	Adjust RV103(IR SPD) on the CPU unit with the IRIS GAIN control of the lens to MAX (fully clockwise).	
				FP-C10:	Adujust the IRIS GAIN control of the lens.(Set RV103 on the CPU to the midposition.)	

No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
	Character position adjustment	CV101 (CHR POS)	VF OUT	• BAR/CAM: CAM	<p>HV-C10: Press the GL switch, and display the following characters on the screen.</p>  <p>FP-C10: Press the CHECK switch two times to display the safety zone on the viewfinder screen.</p>  <p>In both the cases of the HV-C10 and the FP-C10, adjust CV101 to make A = B.</p>	

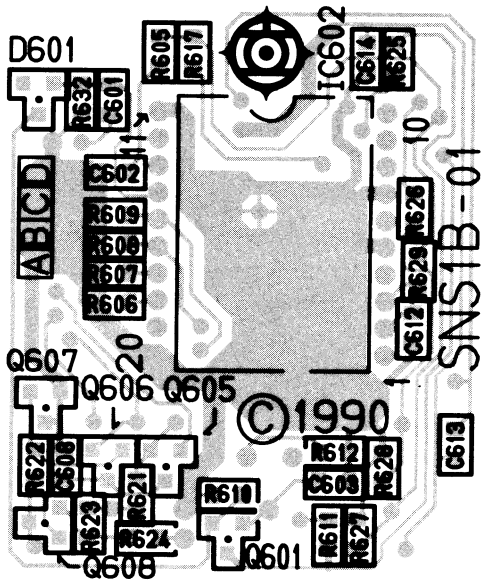
6-10 Adjustment of sensor unit

SNS (Sensor block) unit

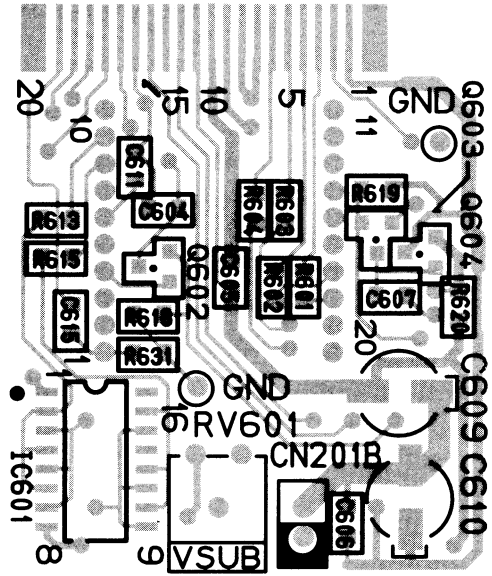
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
<p>Remove the PRA unit, then controls are accessible from the side of the unit. Adjustment methods for RGB signals are identical, and each channel can be adjusted independently.</p>						
1	V SUB adjustment	RV501 (R-V SUB) (G-V SUB) RV601 (B-V SUB)	VIDEO OUT Color monitor	<ul style="list-style-type: none"> • Lens: Manual • Filter disc: 1 	<ul style="list-style-type: none"> • Shoot an approximately 100W light bulb, and set the lens iris to 1.7 to 4. <div data-bbox="874 598 1329 707" data-label="Diagram"> </div> <ul style="list-style-type: none"> • When turning one of RGB VSUB's CCW, the blooming of the corresponding color appears. • Turn VSUB CW gently until the blooming disappears. • Check that no blooming appears by changing the position of the bulb on the screen. • Also check that no blooming appears by changing the lens iris. <p>Note:</p> <ol style="list-style-type: none"> 1. Since the vertical smear is inherent in CCD, it is not changed by adjustment. 2. If VSUB is turned CW excessively, maximum output signal (dynamic range) lowers. 	

SNS (Sensor block) unit

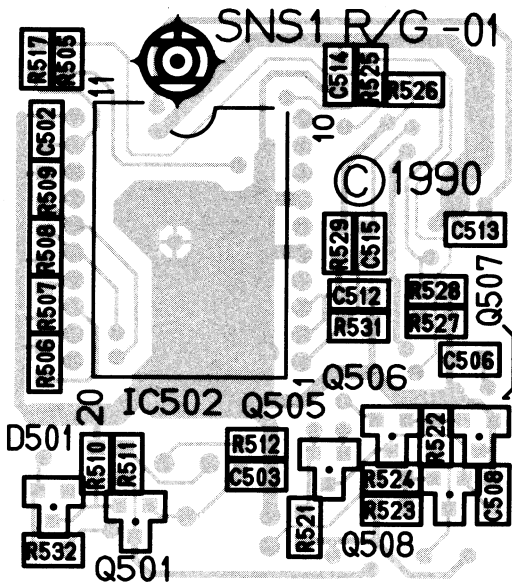
No.	Item	Symbol (Name)	Test point	Initial setting	Adjustment	Remarks
2	CCD drive PLL adjustment	LV301	DRV TP101		Set LV301 to $3.0 \pm 0.5V$ DC. Note: Since LV301 cannot be adjusted when the DRV unit is installed on the sensor block, check the voltage on TP101 and make sure whether adjustment is necessary. To adjust LV301, remove the DRV unit and connect CN913 and CN202B to CN9 of MB1 and CN202 of the PRA unit.	



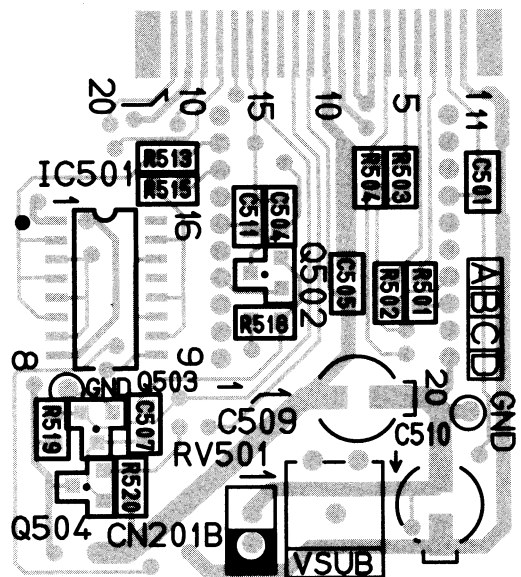
SNS-1 (B) unit (B)



SNS-1 (B) unit (A)



SNS-1 (R-G) unit (B)



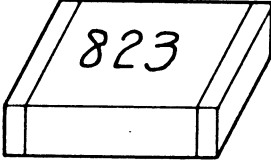
SNS-1 (R-G) unit (A)

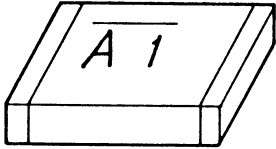
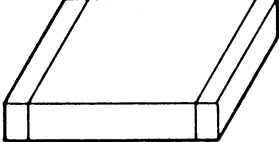
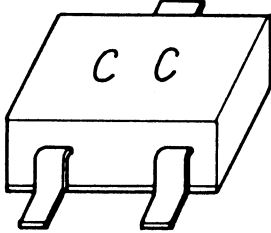
7. ELECTRICAL PARTS ARRANGEMENT AND SCHEMATIC DIAGRAM

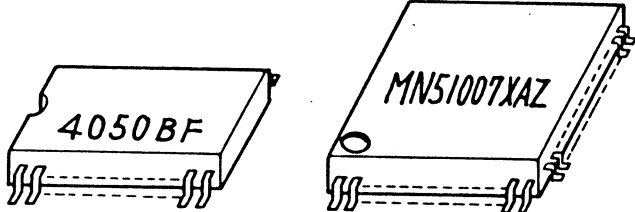
10. REPLACEMENT PROCEDURE FOR CHIP COMPONENTS

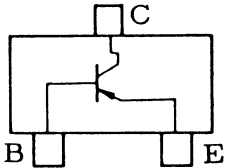
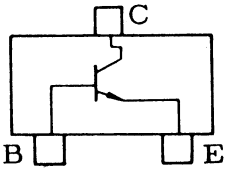
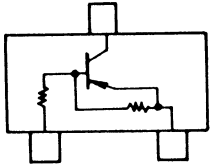
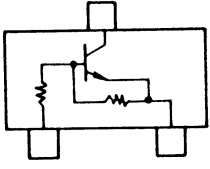
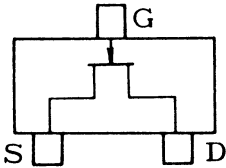
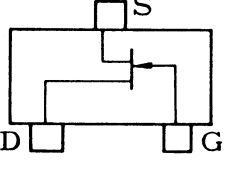
- Resistance for capacitance of chip components and type No. marking
Chip components used in the camera are resistors, capacitors, transistors, diodes, FETs and ICs.
Table 1 shows the chip component specifications.

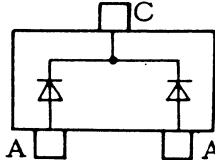
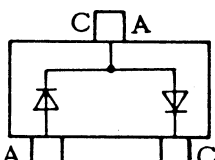
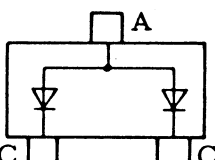
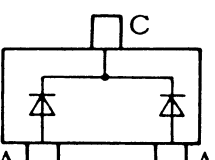
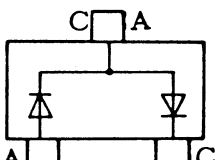
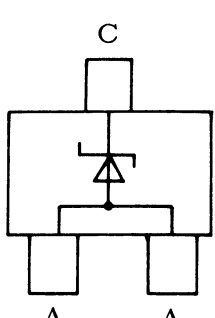
Table 1

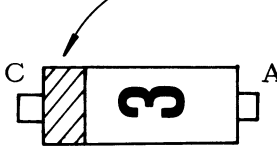
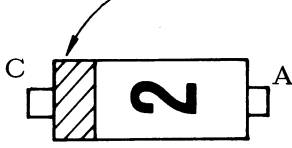
Component	Marking on chips	Specifications																																																								
Resistor	Resistance	<p>Example:</p>  $\boxed{8} \boxed{2} \times 10^{\boxed{3}} \Omega$ $= 82 \text{ k}\Omega$																																																								
Capacitor	Capacitance	<p>The capacitance is expressed in combination of a letter and a figure as shown below, and the unit is picofarad (pF).</p> <table border="1" data-bbox="612 922 1325 1427"> <tbody> <tr> <td>Letter</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Figure</td> <td>1.0</td> <td>1.1</td> <td>1.2</td> <td>1.3</td> <td>1.5</td> <td>1.6</td> </tr> <tr> <td>Letter</td> <td>G</td> <td>H</td> <td>J</td> <td>K</td> <td>L</td> <td>M</td> </tr> <tr> <td>Figure</td> <td>1.8</td> <td>2.0</td> <td>2.2</td> <td>2.4</td> <td>2.7</td> <td>3.0</td> </tr> <tr> <td>Letter</td> <td>N</td> <td>P</td> <td>Q</td> <td>R</td> <td>S</td> <td>T</td> </tr> <tr> <td>Figure</td> <td>3.3</td> <td>3.6</td> <td>3.9</td> <td>4.3</td> <td>4.7</td> <td>5.1</td> </tr> <tr> <td>Letter</td> <td>U</td> <td>V</td> <td>W</td> <td>X</td> <td>Y</td> <td>Z</td> </tr> <tr> <td>Figure</td> <td>5.6</td> <td>6.2</td> <td>6.8</td> <td>7.5</td> <td>8.2</td> <td>9.1</td> </tr> </tbody> </table>	Letter	A	B	C	D	E	F	Figure	1.0	1.1	1.2	1.3	1.5	1.6	Letter	G	H	J	K	L	M	Figure	1.8	2.0	2.2	2.4	2.7	3.0	Letter	N	P	Q	R	S	T	Figure	3.3	3.6	3.9	4.3	4.7	5.1	Letter	U	V	W	X	Y	Z	Figure	5.6	6.2	6.8	7.5	8.2	9.1
Letter	A	B	C	D	E	F																																																				
Figure	1.0	1.1	1.2	1.3	1.5	1.6																																																				
Letter	G	H	J	K	L	M																																																				
Figure	1.8	2.0	2.2	2.4	2.7	3.0																																																				
Letter	N	P	Q	R	S	T																																																				
Figure	3.3	3.6	3.9	4.3	4.7	5.1																																																				
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Figure	5.6	6.2	6.8	7.5	8.2	9.1																																																				

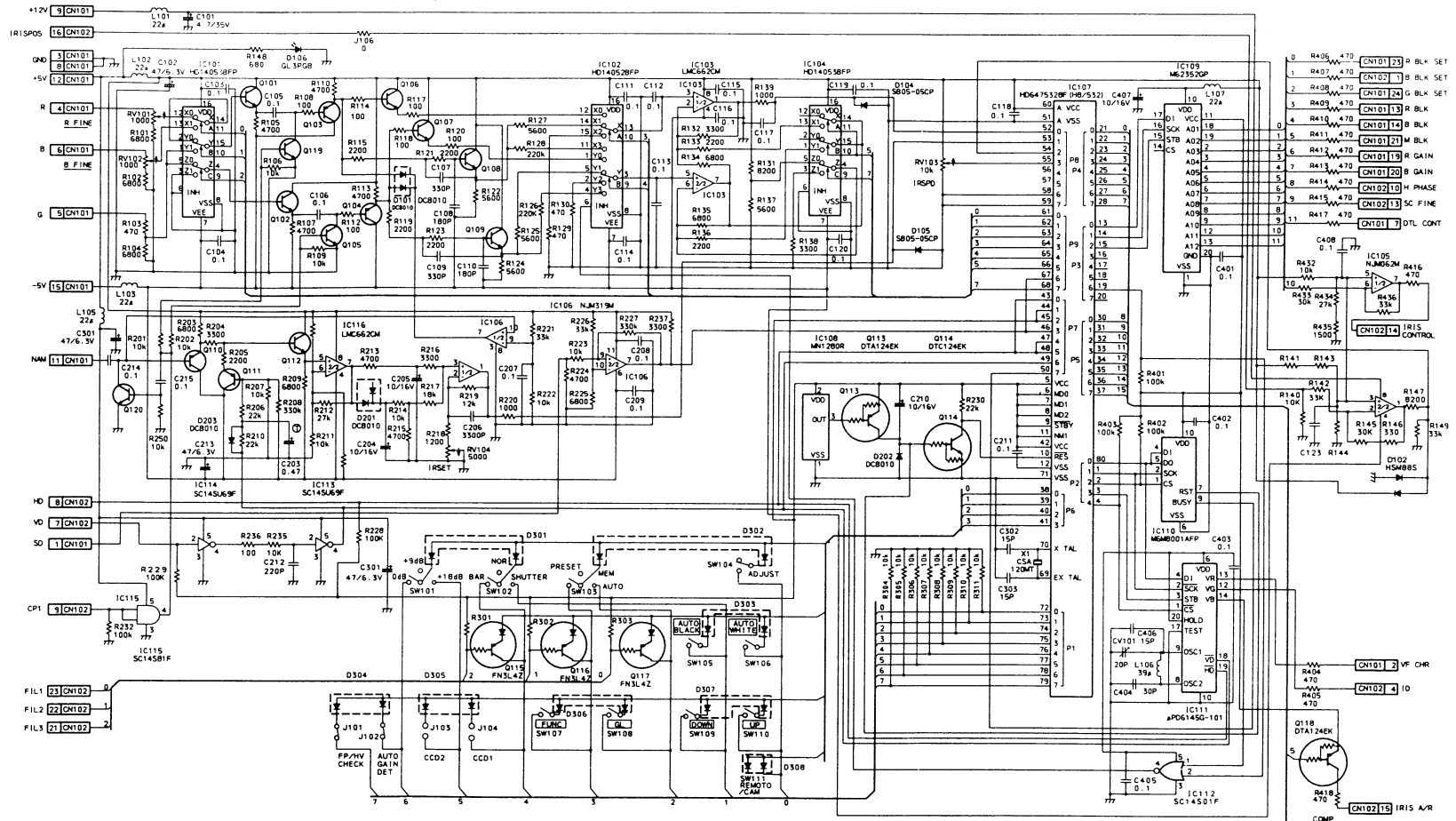
Component	Marking on chips	Specifications																												
Capacitor (cont'ed)	Capacitance	<table border="1" data-bbox="574 276 1336 525"> <tr> <td>Number</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> <tr> <td>Multiplier</td> <td>10^0</td> <td>10^1</td> <td>10^2</td> <td>10^3</td> <td>10^4</td> <td>10^5</td> </tr> <tr> <td>Number</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> <td></td> </tr> <tr> <td>Multiplier</td> <td>10^6</td> <td>10^7</td> <td>10^8</td> <td>10^{-1}</td> <td></td> <td></td> </tr> </table> <p data-bbox="592 564 731 593">Example:</p> <div data-bbox="643 623 920 770" style="display: inline-block; vertical-align: middle;">  </div> <div data-bbox="987 544 1290 740" style="display: inline-block; vertical-align: middle; margin-left: 20px;"> <p>A1: 1.0×10^1 = 10 pF</p> <p>E3: 1.5×10^3 = 1500 pF</p> </div>	Number	0	1	2	3	4	5	Multiplier	10^0	10^1	10^2	10^3	10^4	10^5	Number	6	7	8	9			Multiplier	10^6	10^7	10^8	10^{-1}		
Number	0	1	2	3	4	5																								
Multiplier	10^0	10^1	10^2	10^3	10^4	10^5																								
Number	6	7	8	9																										
Multiplier	10^6	10^7	10^8	10^{-1}																										
Capacitor	Not marking	<p data-bbox="592 834 1233 991">Note: Mount the chip component not marked with capacitance right after it is unpacked. Do not use a chip component which is released from one's hold.</p> <p data-bbox="592 1011 731 1040">Example:</p> <div data-bbox="648 1070 928 1211" style="display: inline-block; vertical-align: middle;">  </div>																												
Tran- sistor, diode, and FET	Tape No.	<p data-bbox="592 1315 731 1344">Example:</p> <div data-bbox="648 1368 920 1599" style="display: inline-block; vertical-align: middle;">  </div>																												

Component	Marking on chips	Specifications
		<p>Transistors: CC: 2SA1122C SC: 2SA1121C E4: 2SA1226E4 Y34: 2SA1462 LC: 2SC2462C QB: 2SC2620B RC: 2SC2618C B4: 2SC1621B4 B34: 2SC3735 15: DTA124EK 25: DTC124EK</p> <p>Diodes: B: SB05-05CP D: SB02-09CP C1: HSM88S</p> <p>17: HZM5B 26: HZM9B</p> <p>A3: IS2835 A5: IS2837 W5: DCA010 W6: DCB010 W7: DCC010 W8: DWA010 2: HVR100-3 3: 1SV203-9TLC</p> <p>FET's: TGR: 2SK302GR AJ6: 2SK443-AJ6</p>
IC	Type No.	<p>Example:</p> 

Item	Type	Pin connection (Top view)
Transistor	2SA1122CC 2SA1121C 2SA1462 2SA1226E4	
	2SC1621B4 2SC3735 2SC2462C 2SC2620B 2SC2618C	
	DTA124EK	
	DTC124EK	
FET	2SK443-AJ6	
	2SK302GR	

Item	Type	Pin connection (Top view)
Diode	DCB010 1S2837	
	DCC010 HSM88S	
	DCA015 DCA010 1S2835	
	DWA010	
	SB05-CP SB02-09CP	
	HZM5B HZM9B	

Item	Type	Pin connector (Top view)
Diode	1SV203-9TLC	Cathode mark (yellow) 
	HVR100-3	Cathode mark (red) 



NO MARKED NPN 25C246ZLC
 PNP 25A1129CC
 D1 DCA010

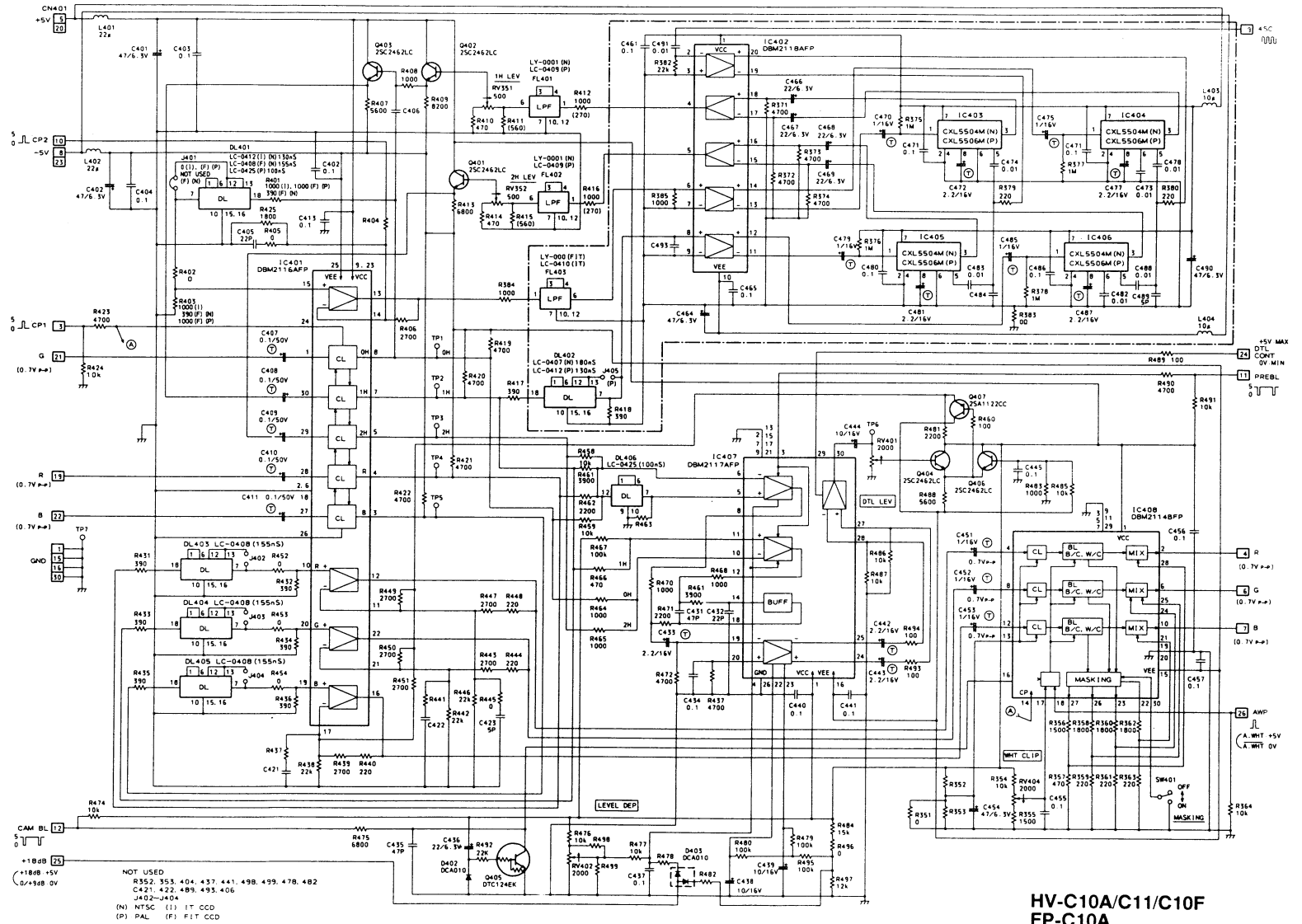
NOT USED C123, R301-R303, R141, R143, E144
 SW111.

UNIT	CPU1	CPU4	CPU3
CCD IT (T)	IT (M)	FIT	
J105	X	O	X
J104	X	X	O

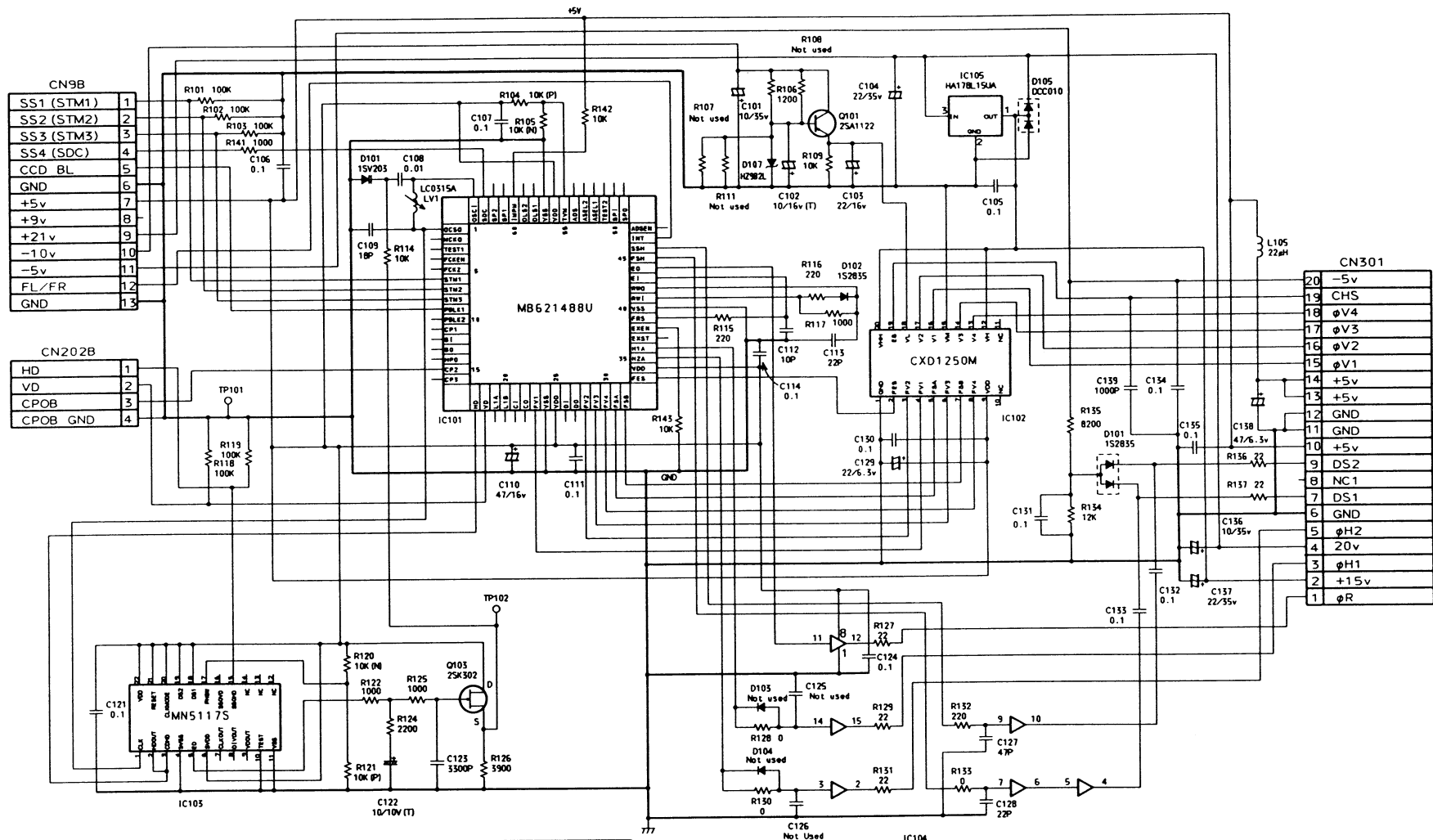
IC107	C10F	C10A
(Version)	V1.1	V1.2

- *988 15 [CN101] 470, R415
- *1888 17 [CN101] 470, R420
- BAND-CAM 18 [CN101] 470, R421
- SC COMARSET 19 [CN101] 470, R422
- SC COMARSET 19 [CN101] 470, R423
- SC COMARSET 19 [CN101] 470, R424
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- SC COMARSET 19 [CN101] 470, R500

HV-C10 CPU1
 HV-C10F CPU3
 HV-C10A/C11 CPU4
 SCHEMATIC DIAGRAM



**HV-C10A/C11/C10F
 FP-C10A
 DTL-02A
 SCHEMATIC DIAGRAM**



CN9B

SS1 (STM1)	1
SS2 (STM2)	2
SS3 (STM3)	3
SS4 (SDC)	4
CCD BL	5
GND	6
+5v	7
+9v	8
+21v	9
-10v	10
-5v	11
FL/FR	12
GND	13

CN202B

HD	1
VD	2
CPOB	3
CPOB GND	4

CN301

20	-5v
19	CHS
18	φV4
17	φV3
16	φV2
15	φV1
14	+5v
13	+5v
12	GND
11	GND
10	+5v
9	DS2
8	NC1
7	DS1
6	GND
5	φH2
4	20v
3	φH1
2	+15v
1	φR

(T) : TA ELYC

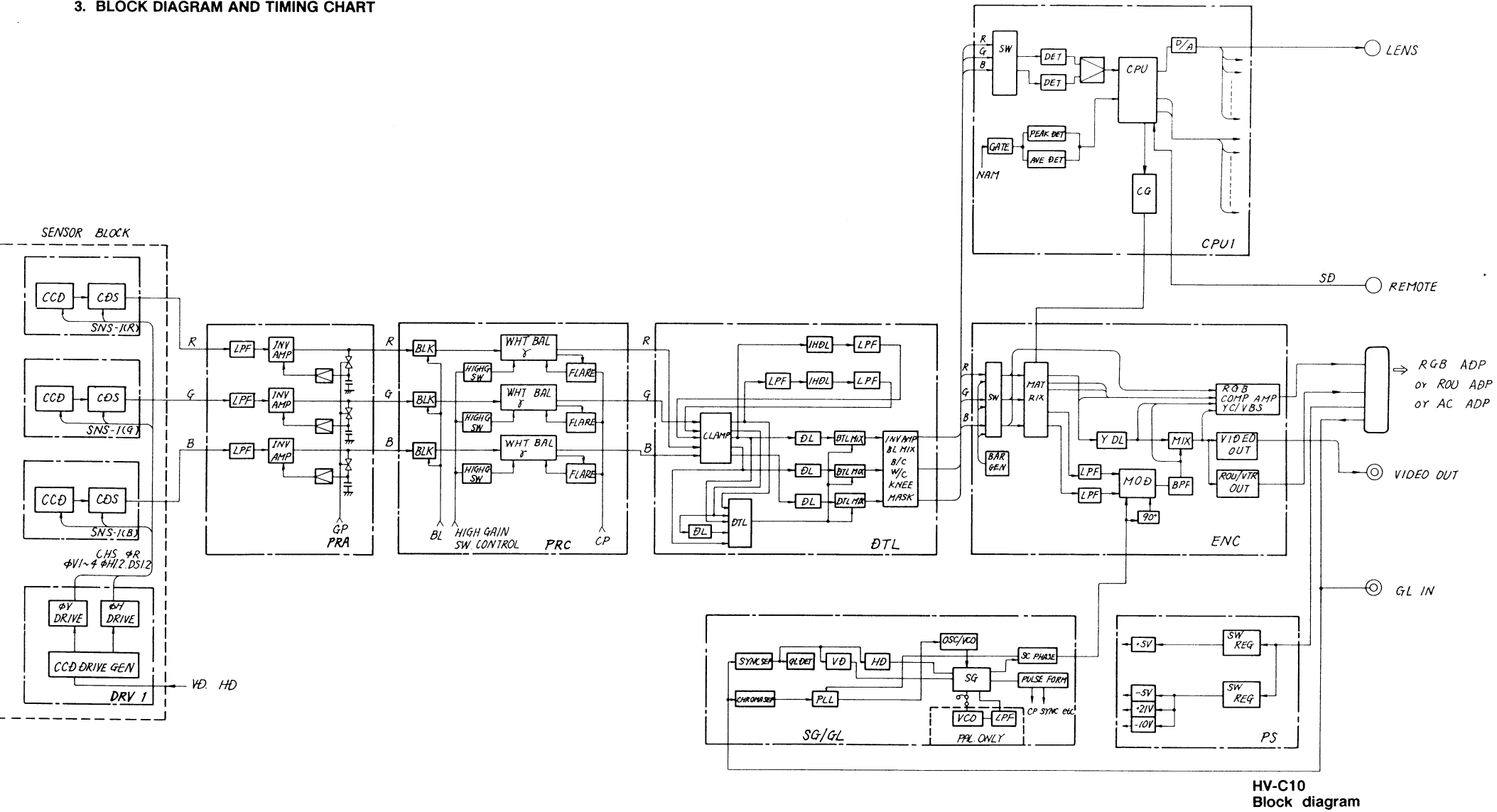
(N) : NTSC only

(P) : PAL only

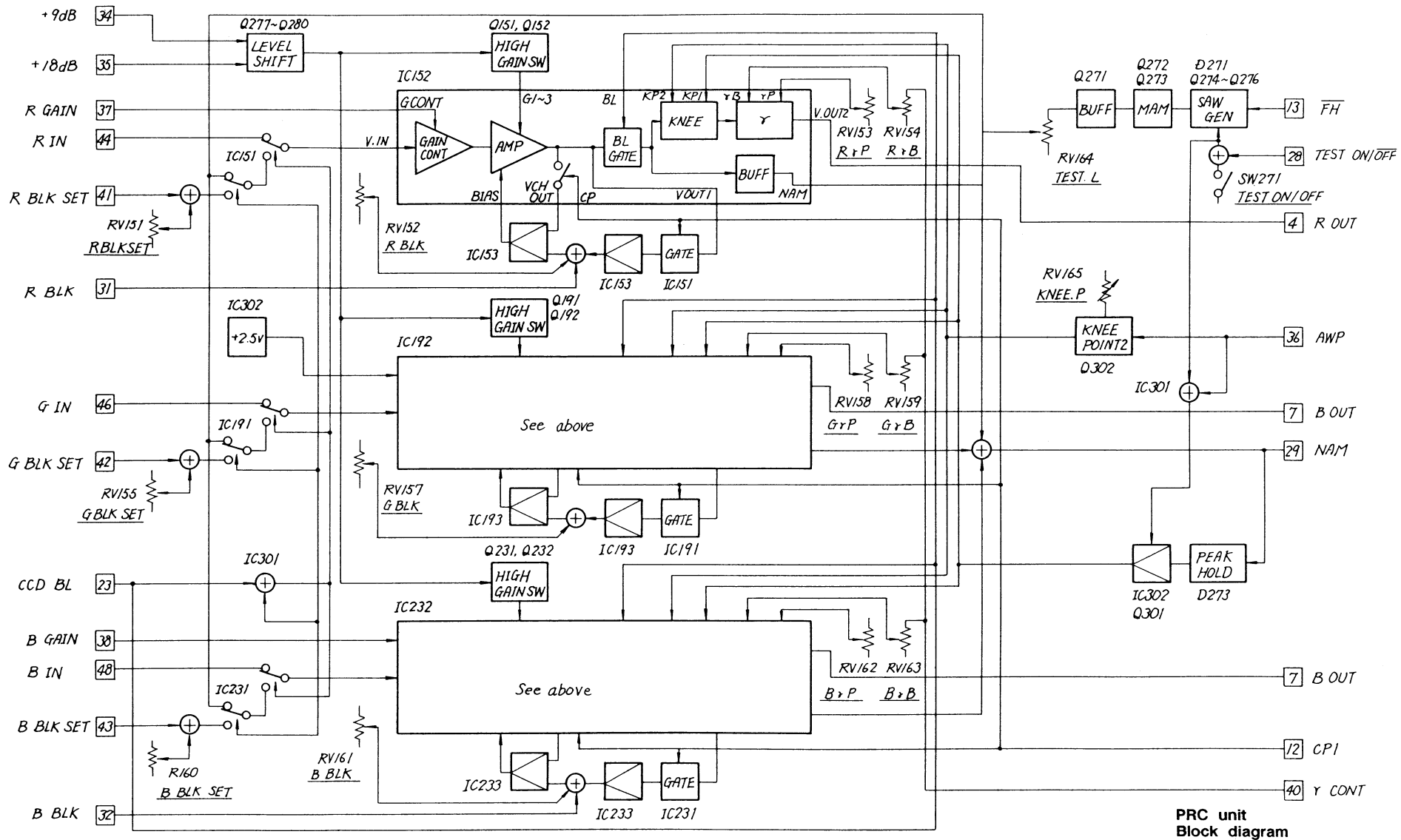
CAM	C10	C10A
UNIT	DRV2	DRV4
R141	Not Used	○
R142	Not Used	○
R143	Not Used	○

HV-FP-C10 DRV2
 HV-FP-C10A DRV4
 SCHEMATIC DIAGRAM

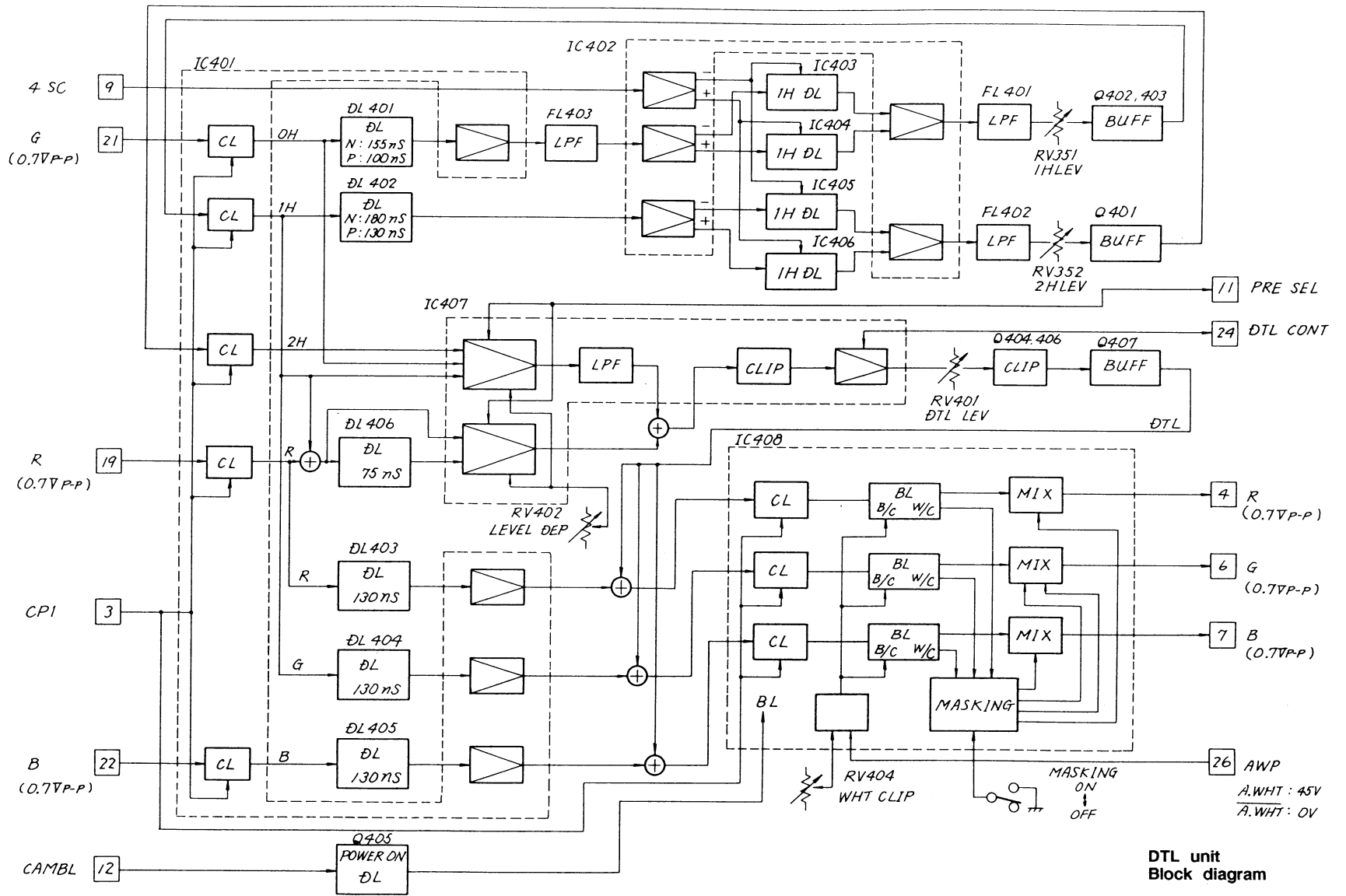
3. BLOCK DIAGRAM AND TIMING CHART



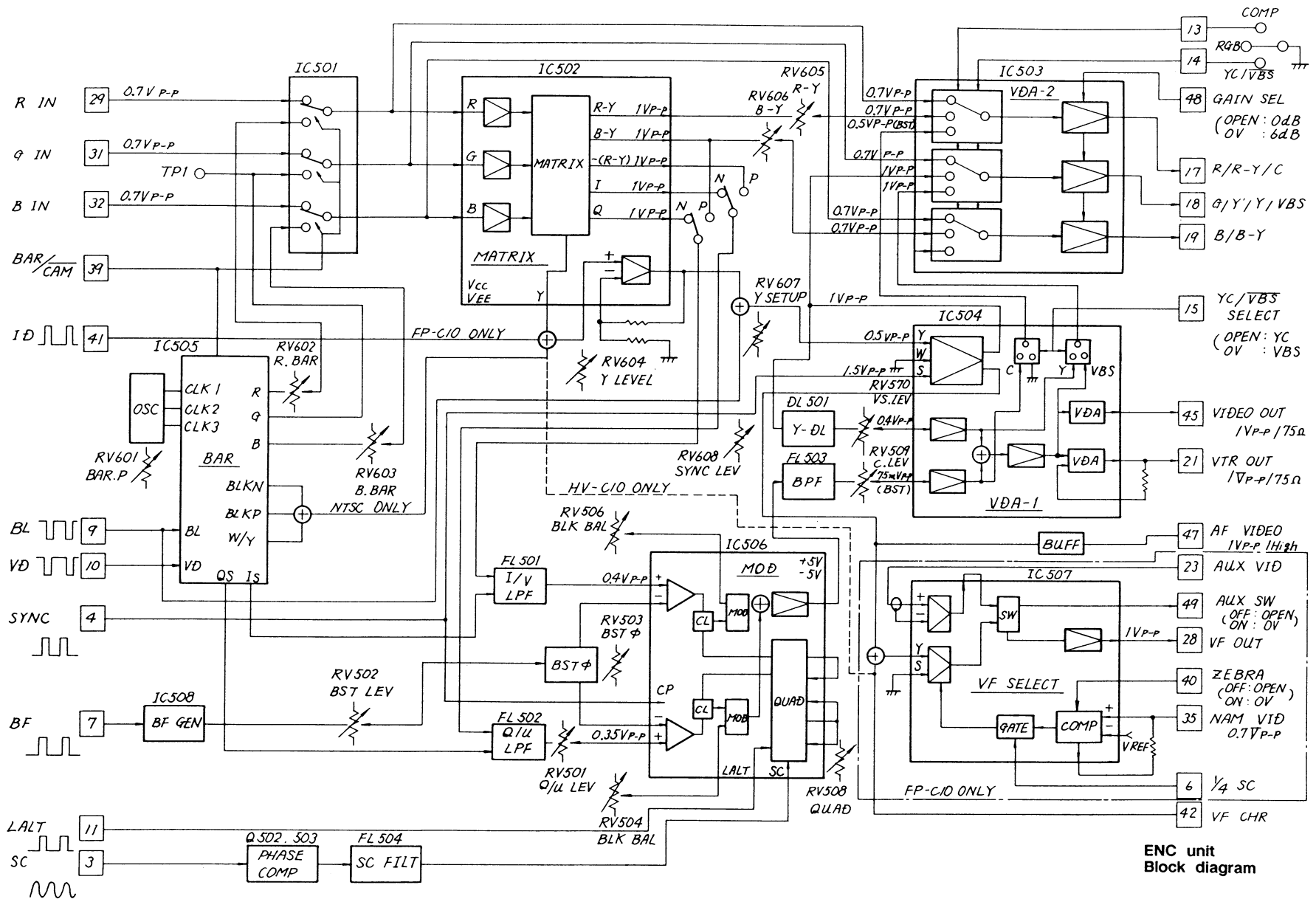
HV-C10
Block diagram

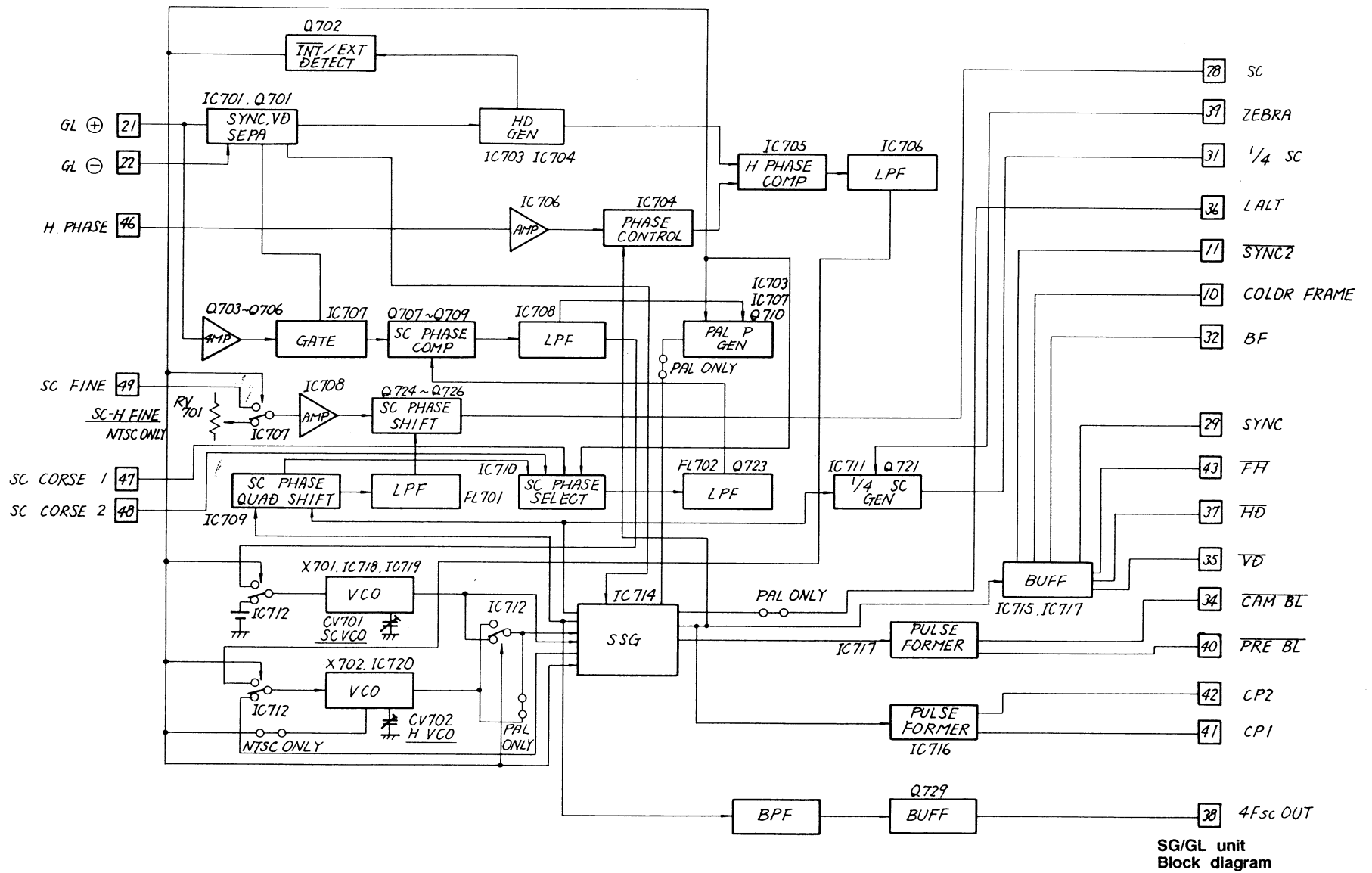


PRC unit
Block diagram

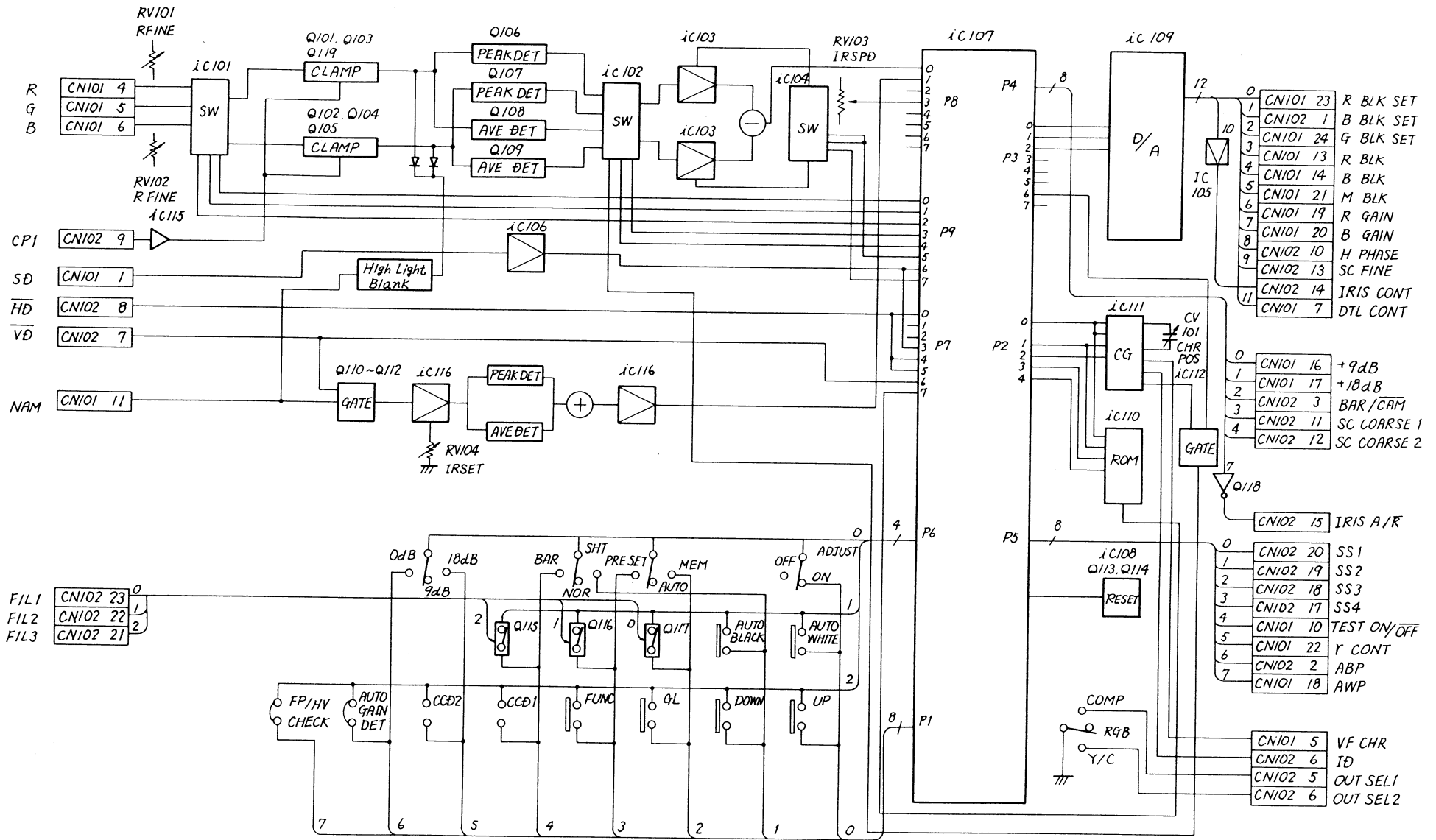


DTL unit
Block diagram





SG/GL unit
Block diagram



- CN101 4 R
- CN101 5 G
- CN101 6 B
- CN102 9 CP1
- CN101 1 SD
- CN102 8 HD
- CN102 7 VD
- CN101 11 NAM
- CN101 23 R BLK SET
- CN102 1 B BLK SET
- CN101 24 G BLK SET
- CN101 13 R BLK
- CN101 14 B BLK
- CN101 21 M BLK
- CN101 19 R GAIN
- CN101 20 B GAIN
- CN102 10 H PHASE
- CN102 13 SC FINE
- CN102 14 IRIS CONT
- CN101 7 DTL CONT

- CN101 16 +9dB
- CN101 17 +18dB
- CN102 3 BAR/CAM
- CN102 11 SC COARSE 1
- CN102 12 SC COARSE 2

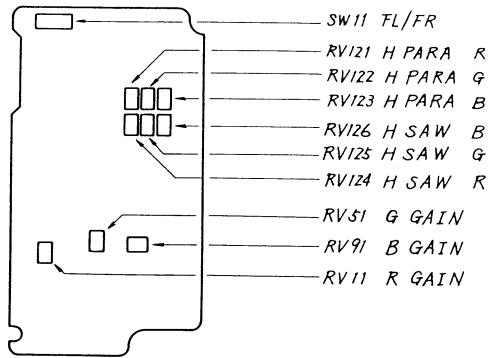
- CN102 15 IRIS A/R
- CN102 20 SS 1
- CN102 19 SS 2
- CN102 18 SS 3
- CN102 17 SS 4
- CN101 10 TEST ON/OFF
- CN101 22 Y CONT
- CN102 2 ABP
- CN101 18 AWP

- CN101 5 VF CHR
- CN102 6 ID
- CN102 5 OUT SEL 1
- CN102 6 OUT SEL 2

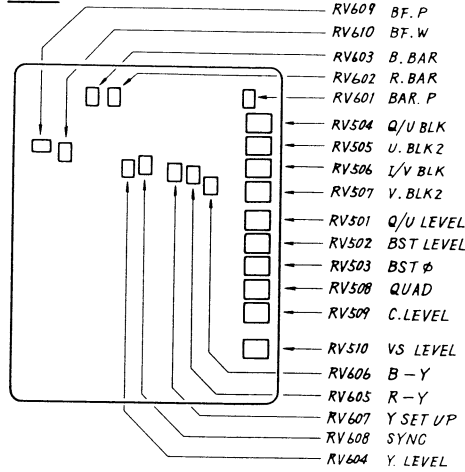
CPU unit
Block diagram

6-2 Location of adjustments

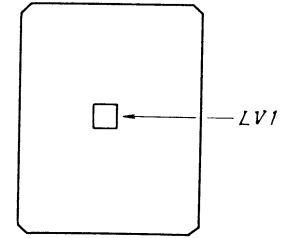
PRA



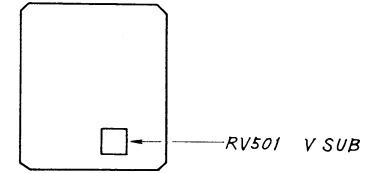
ENC



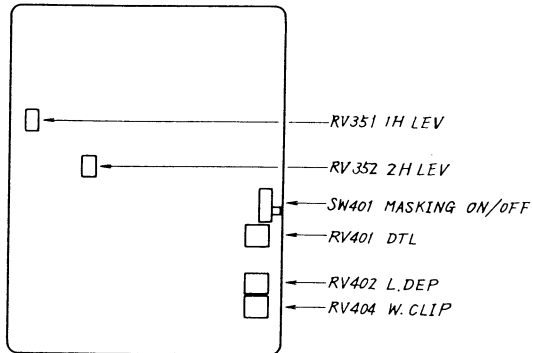
DRV 1



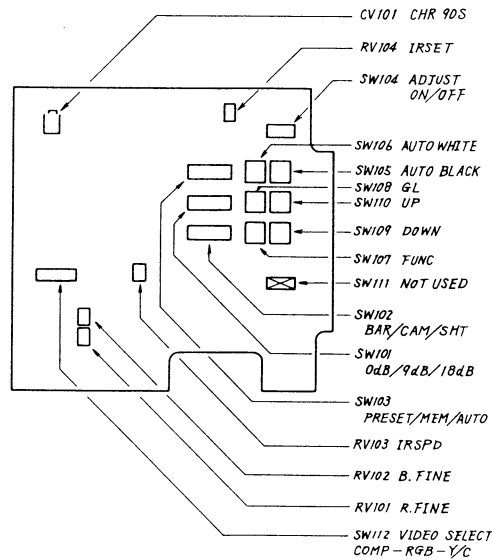
SNS 1-R/G



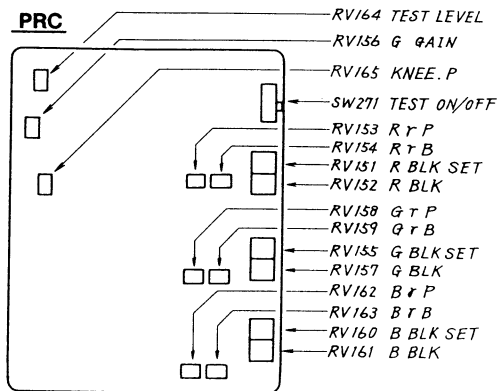
DTL



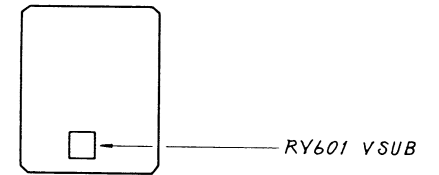
CPU 1



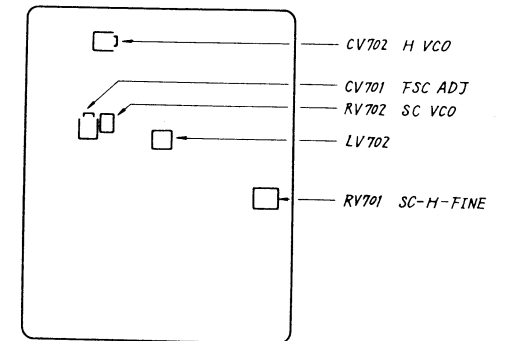
PRC

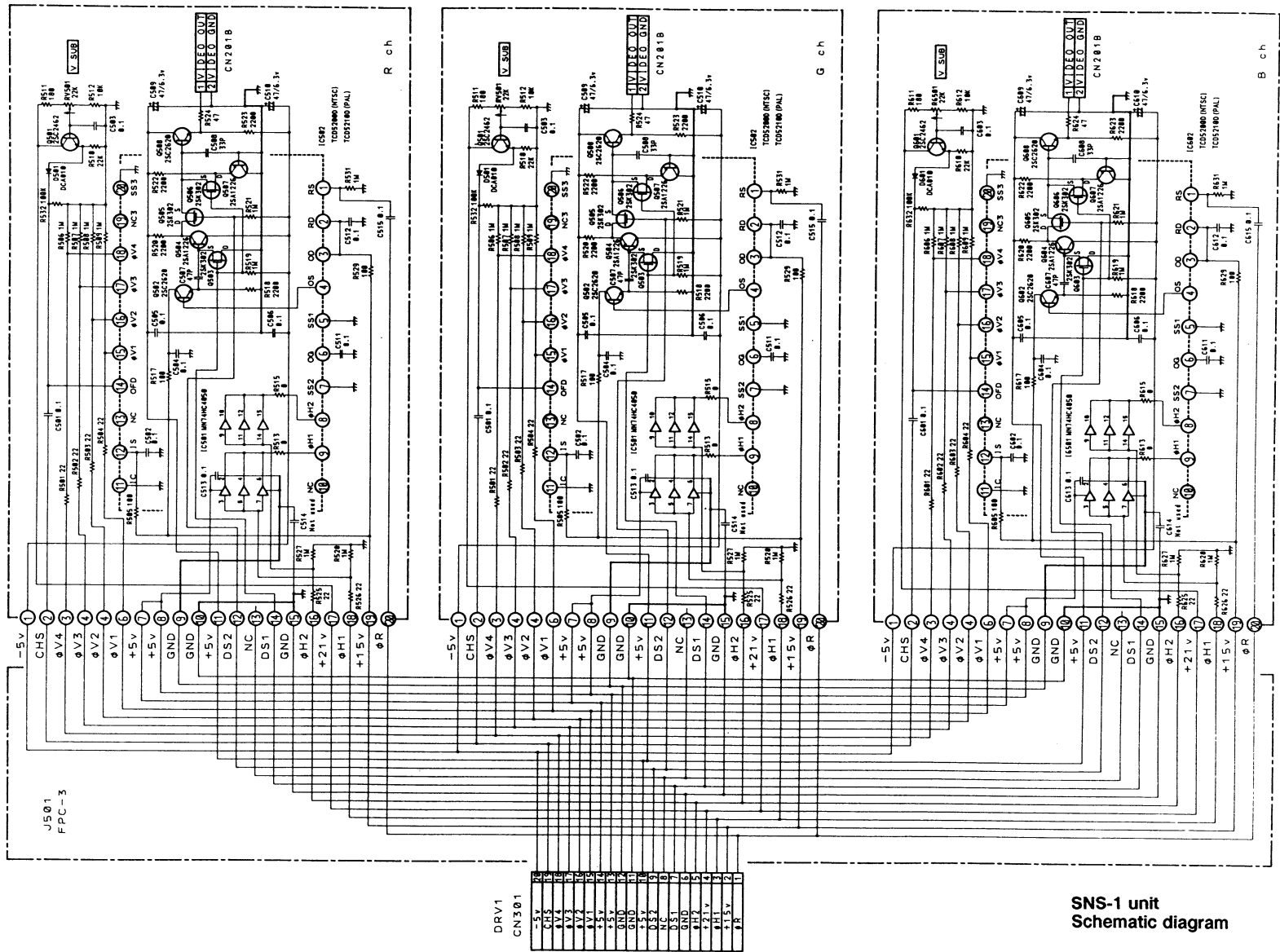


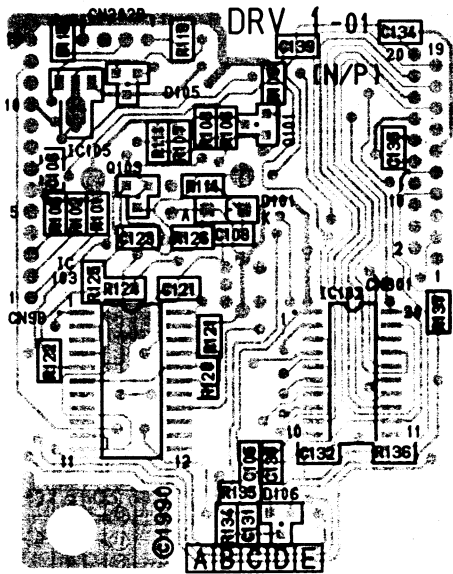
SNS 1-B



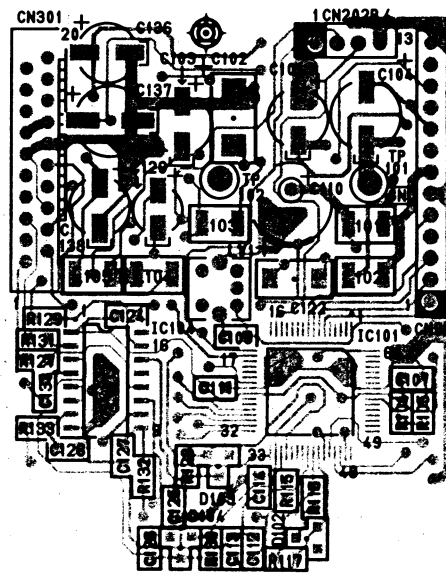
SG/GL



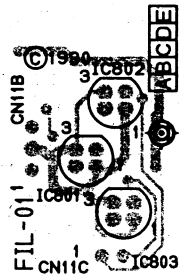




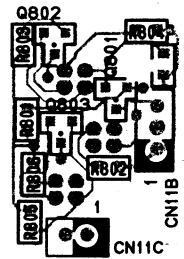
DRV 1 unit (B)



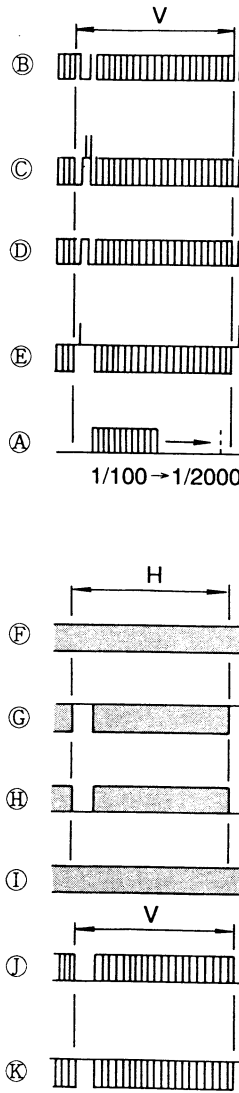
DRV 1 unit (A)

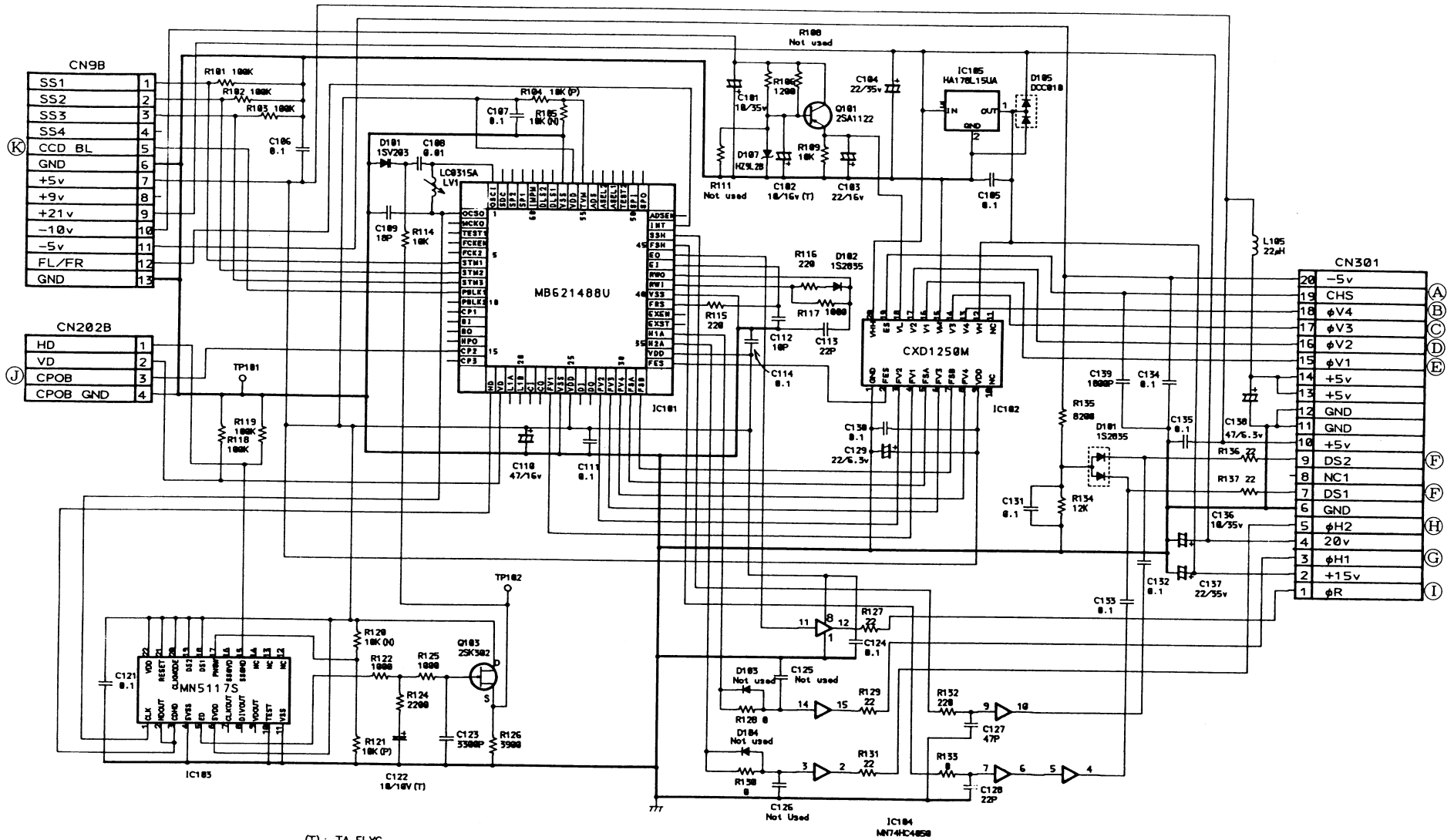


FIL unit (B)

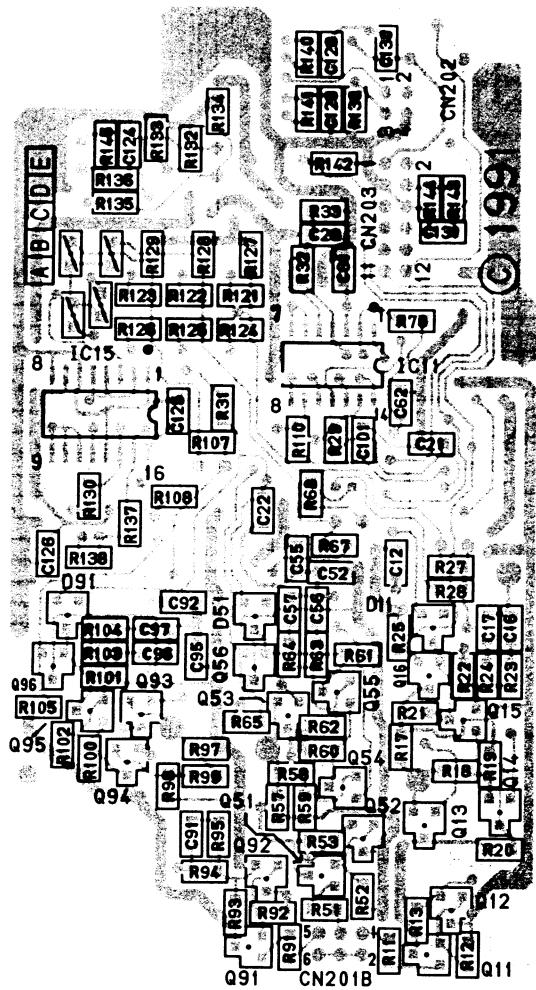


FIL unit (A)

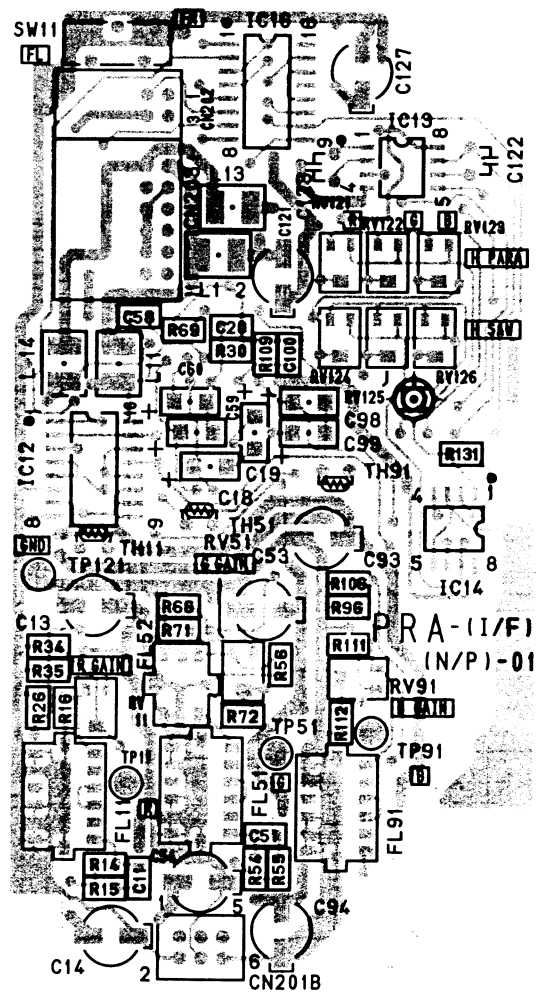




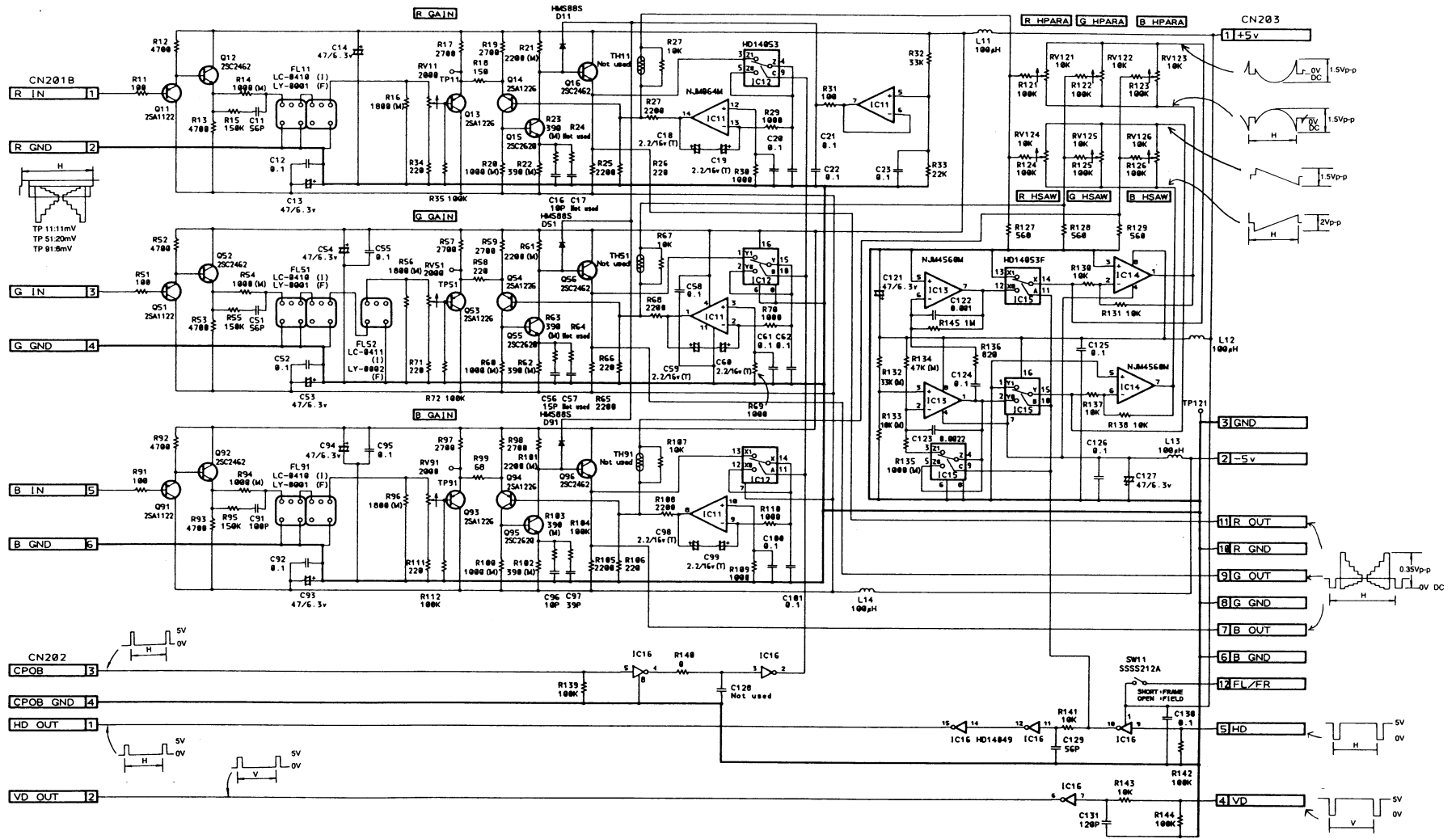
DRV-1 unit
 Schematic diagram



PRA unit (B)

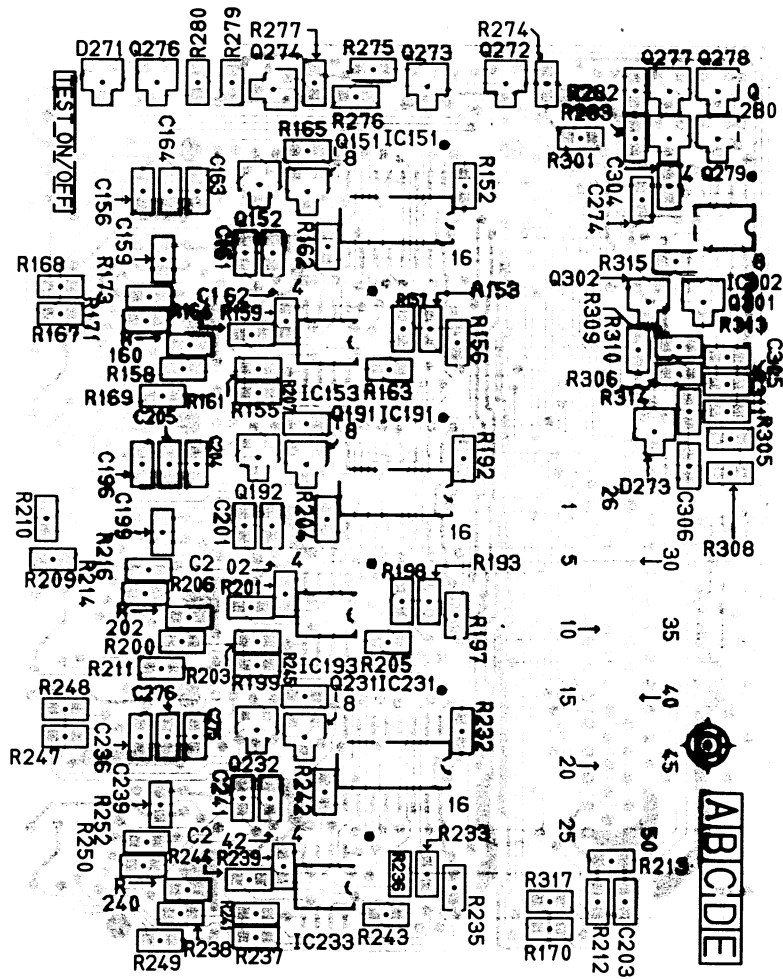


PRA unit (A)

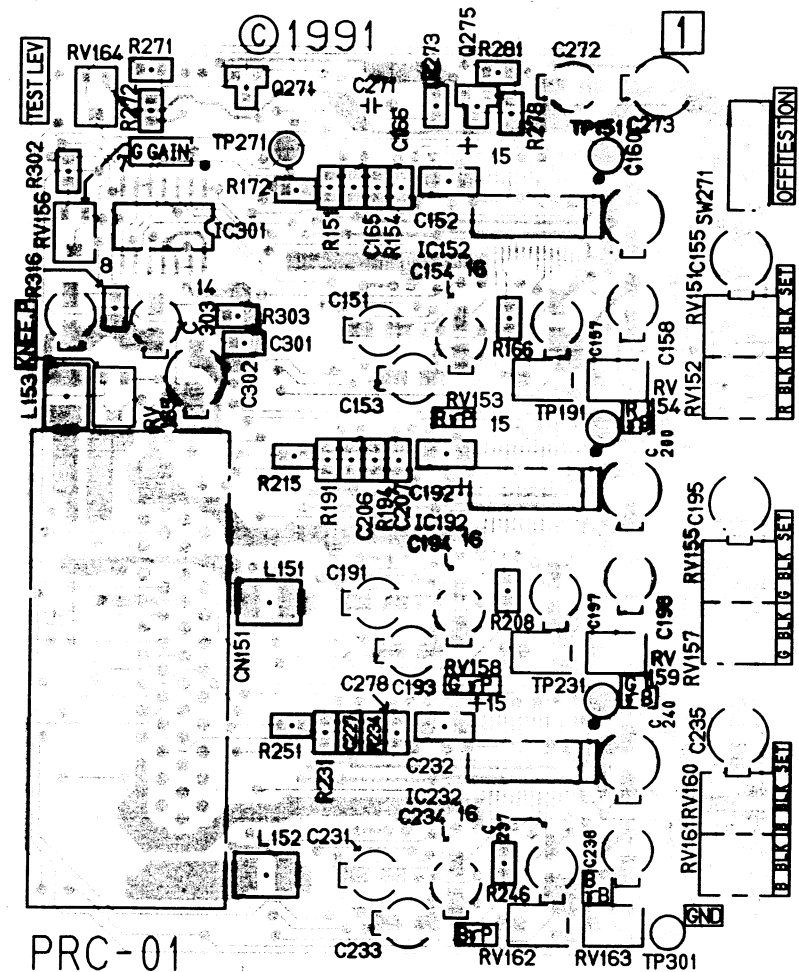


(T) : TA ELYC
 (M) : METAL
 (N) : NTSC
 (P) : PAL
 (I) : IT CCD
 (F) : F1T CCD

PRA unit
 Schematic diagram

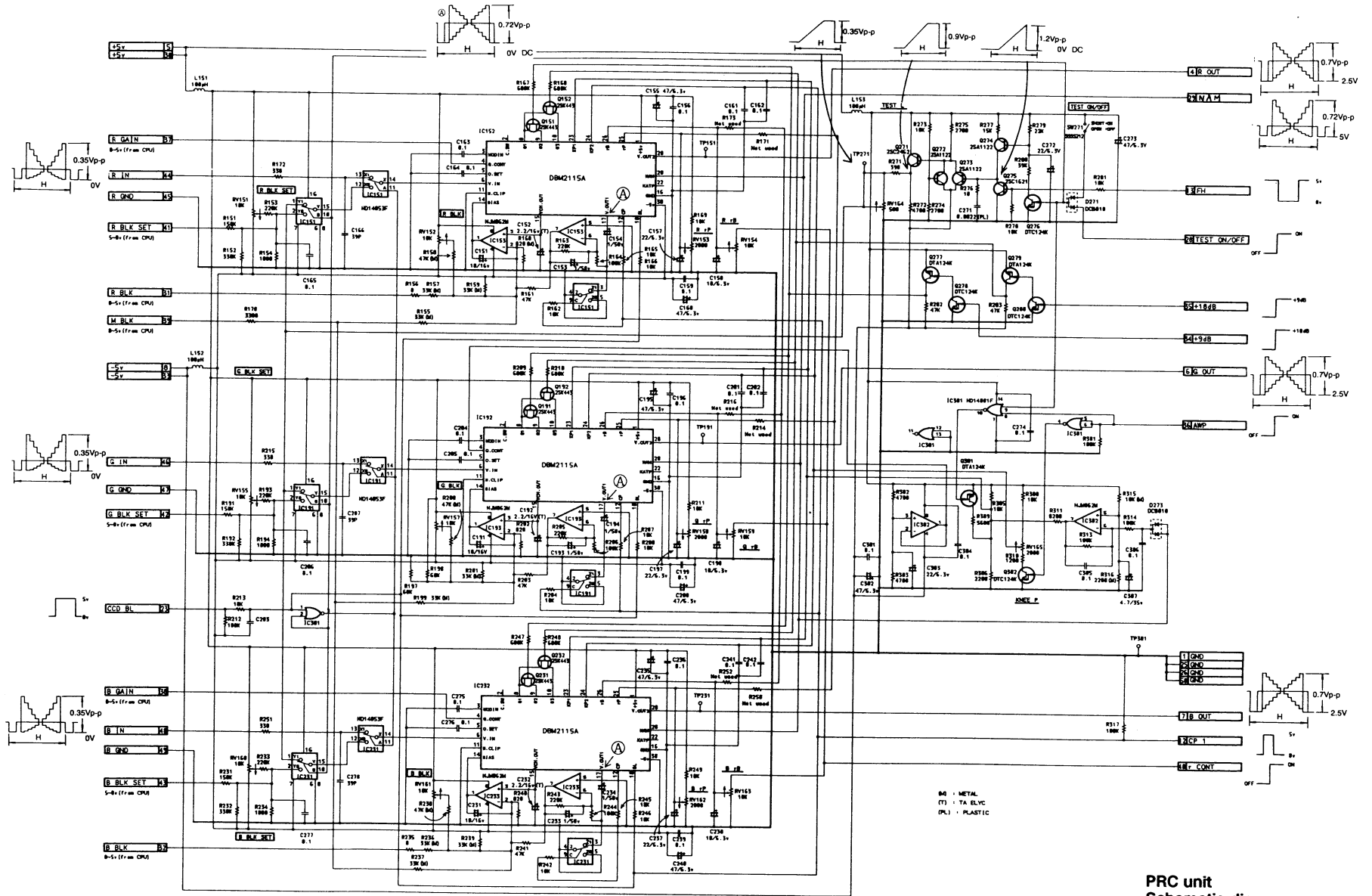


PRC unit (B)

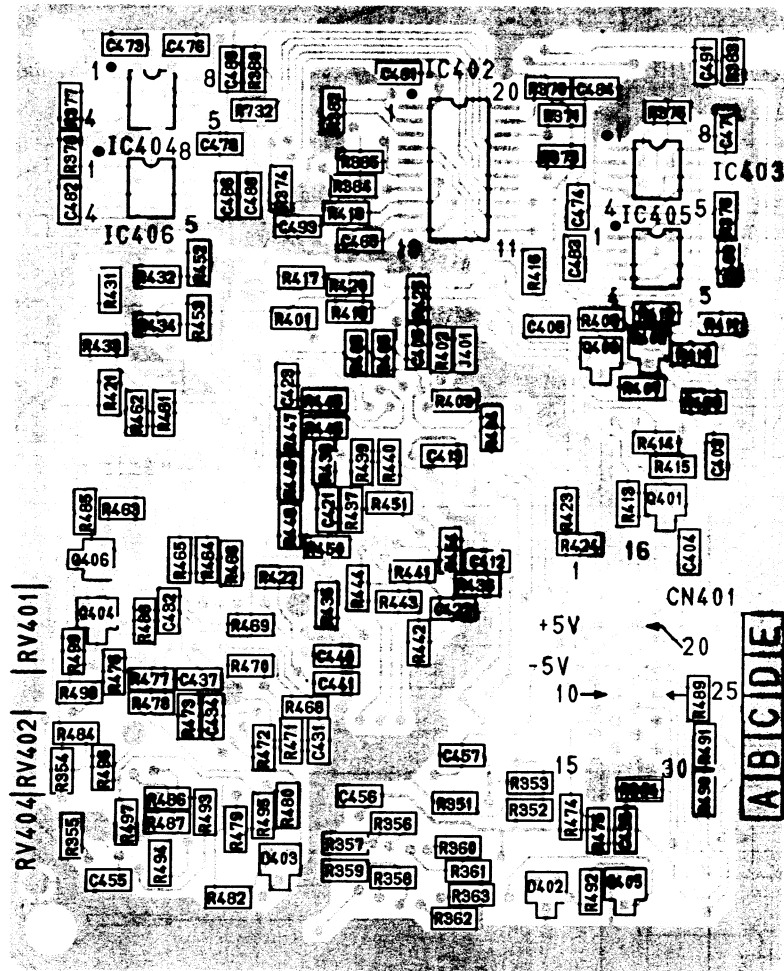


PRC-01

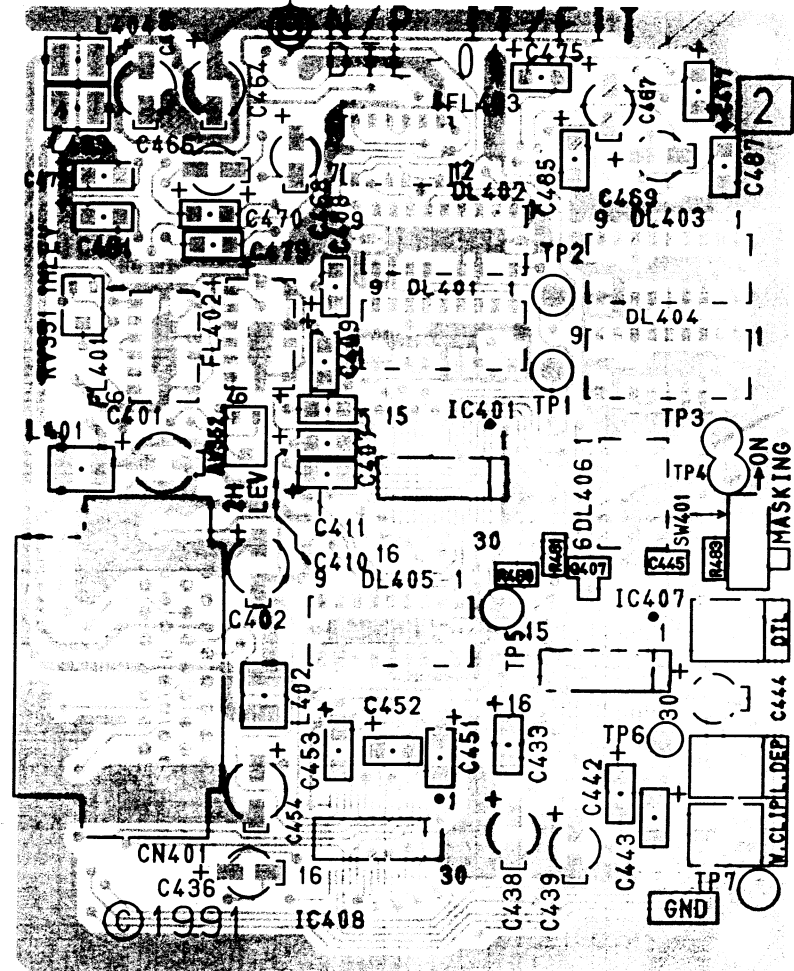
PRC unit (A)



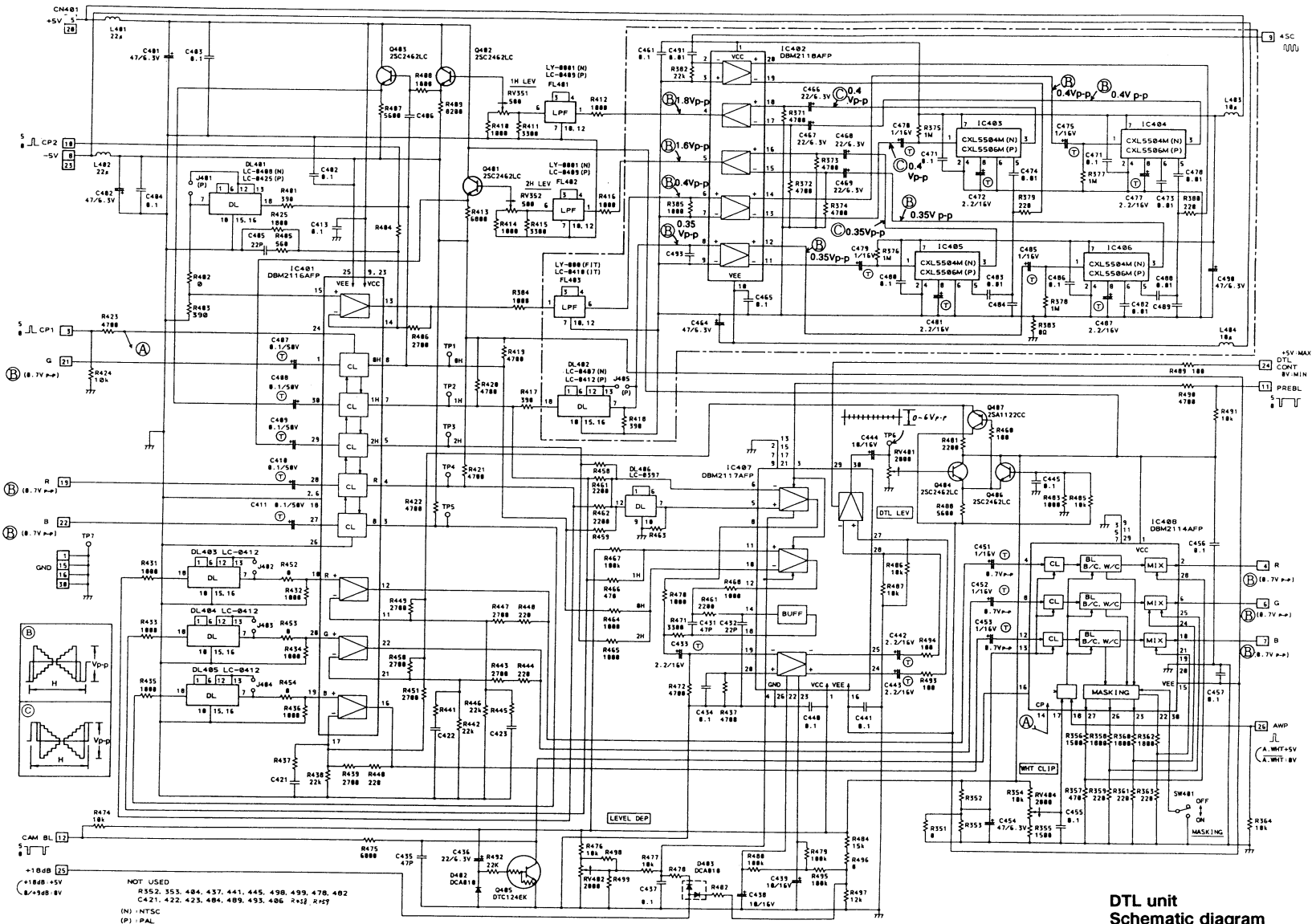
PRC unit
Schematic diagram



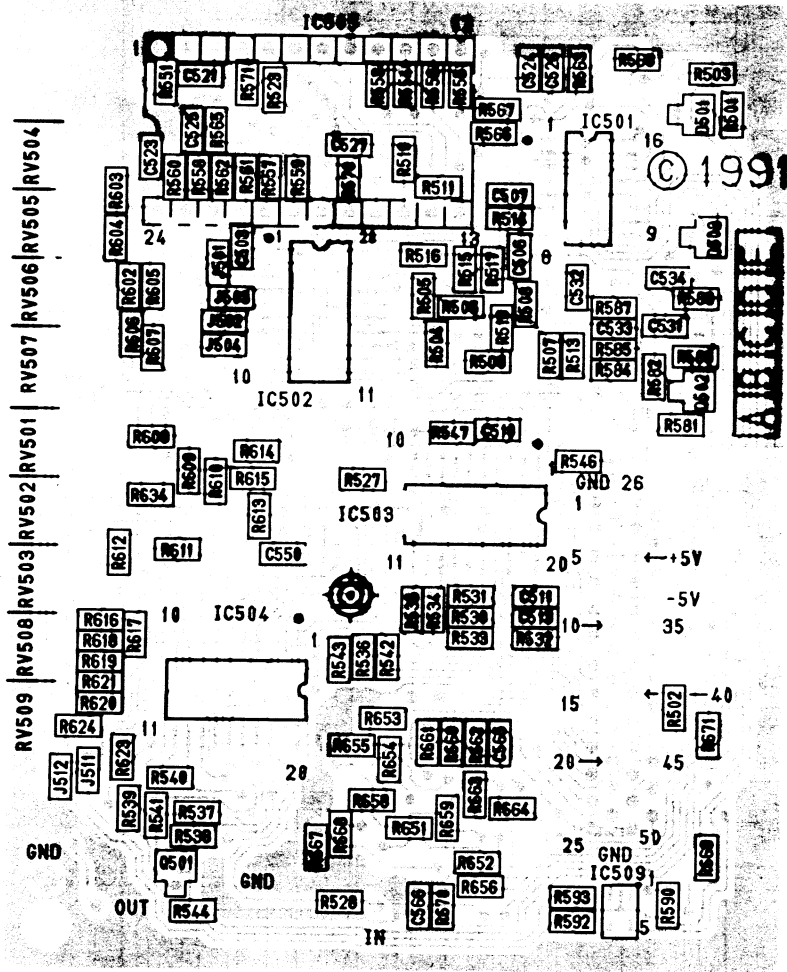
DTL unit (B)



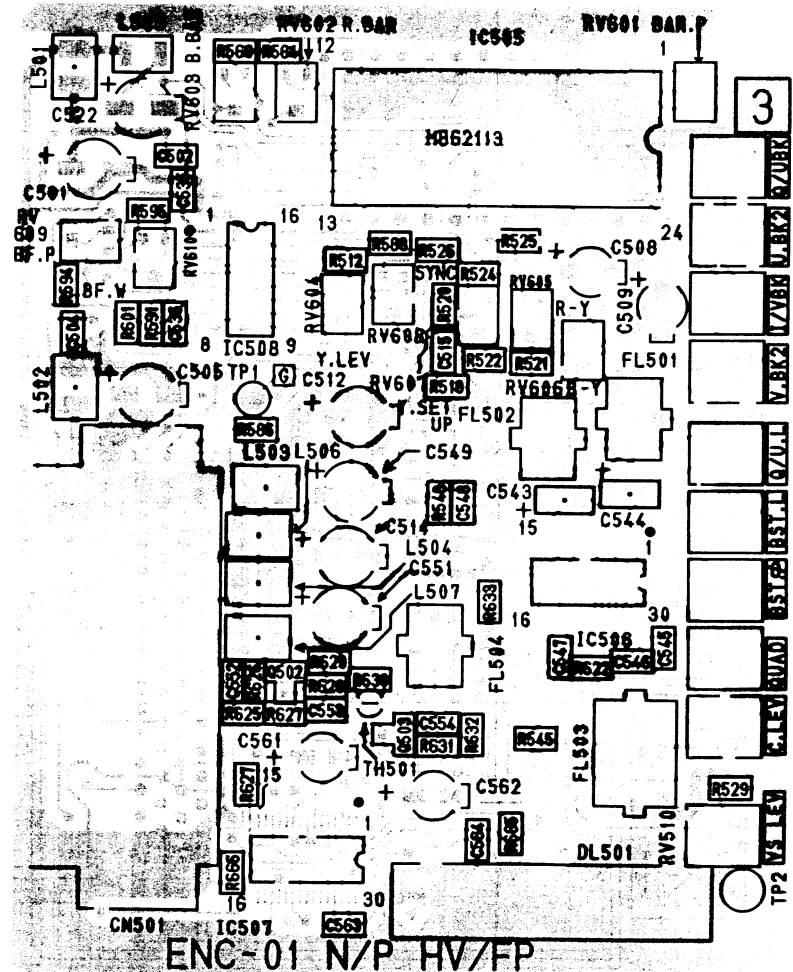
DTL unit (A)



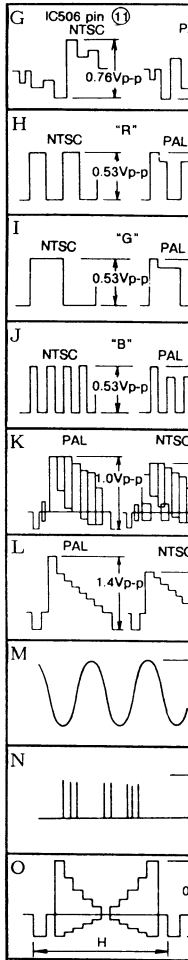
DTL unit
Schematic diagram

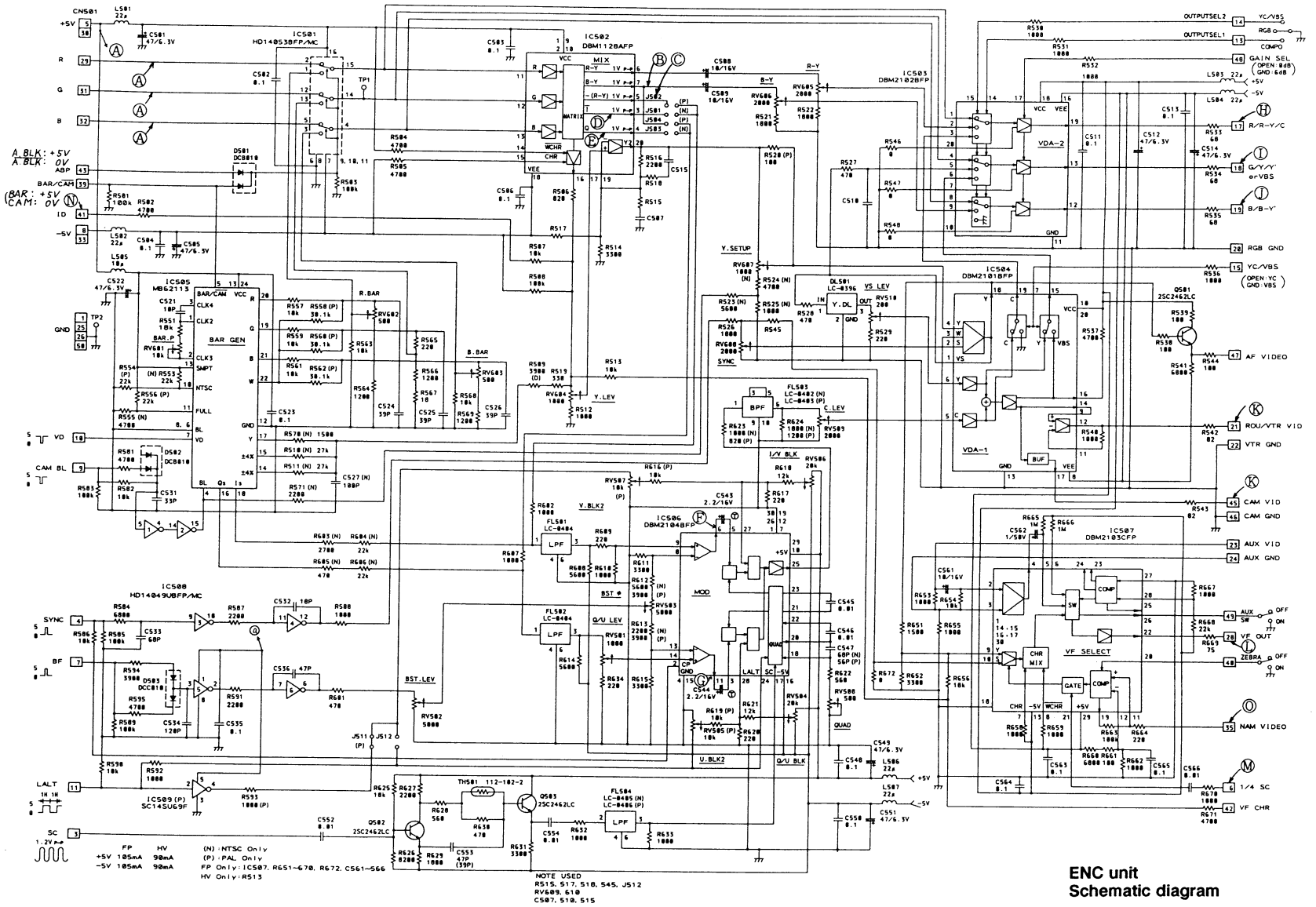
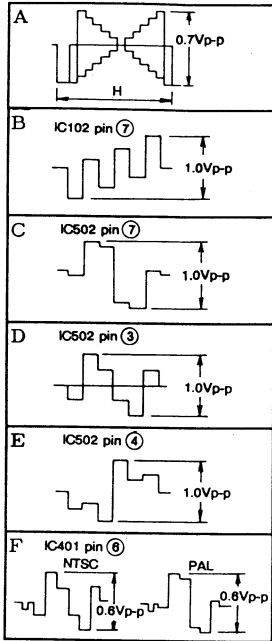


ENC unit (B)

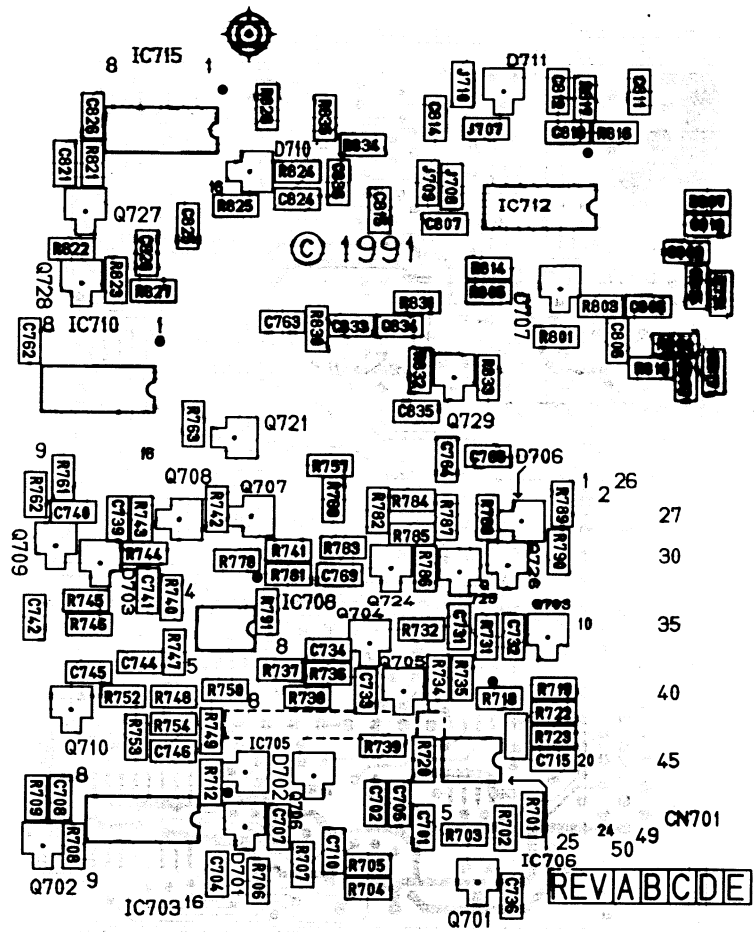


ENC unit (A)

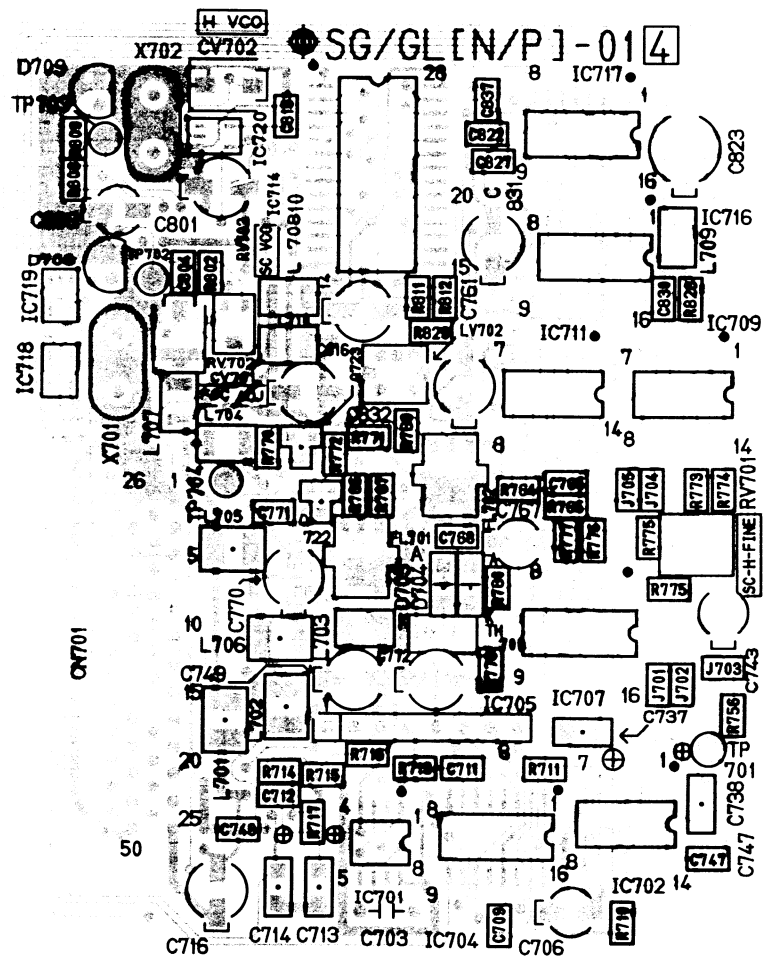




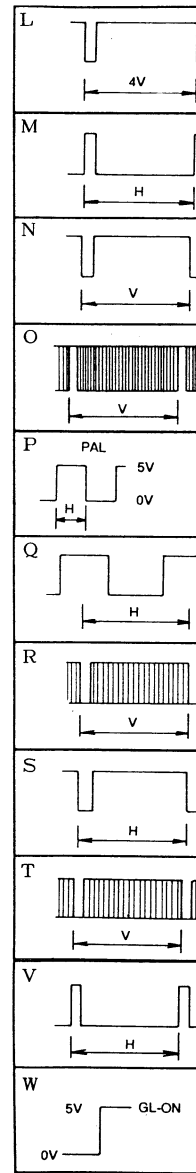
ENC unit Schematic diagram

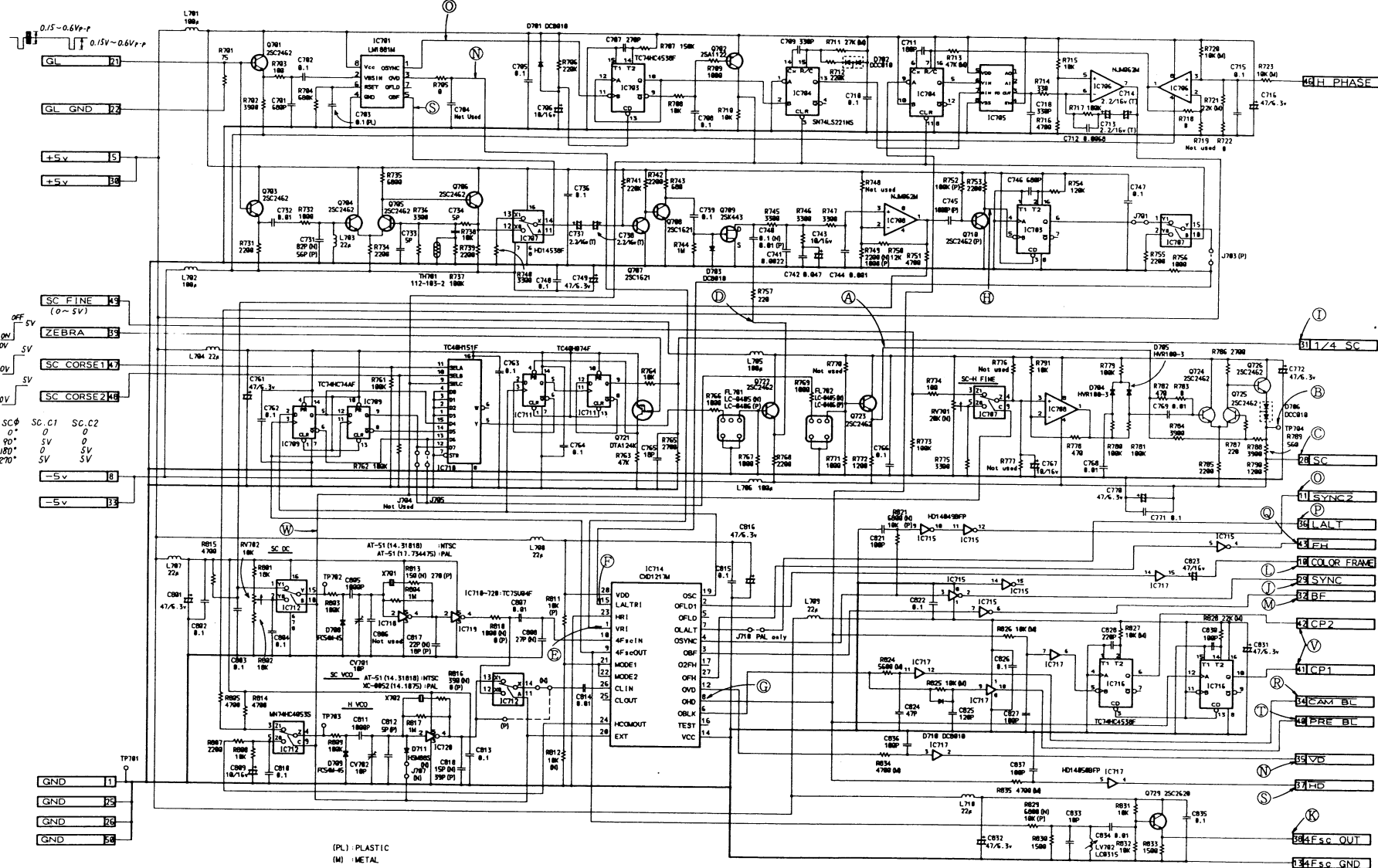
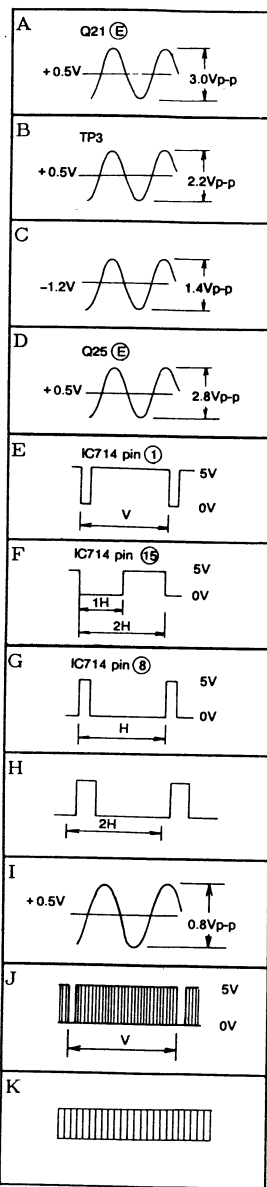


SG/GL unit (B)



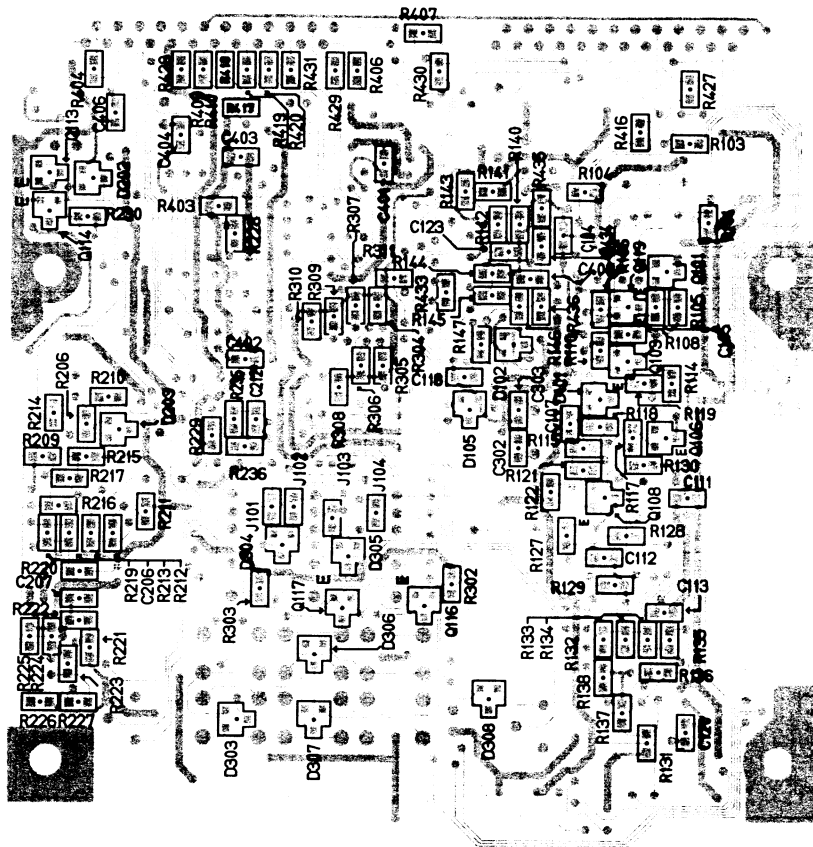
SG/GL unit (A)



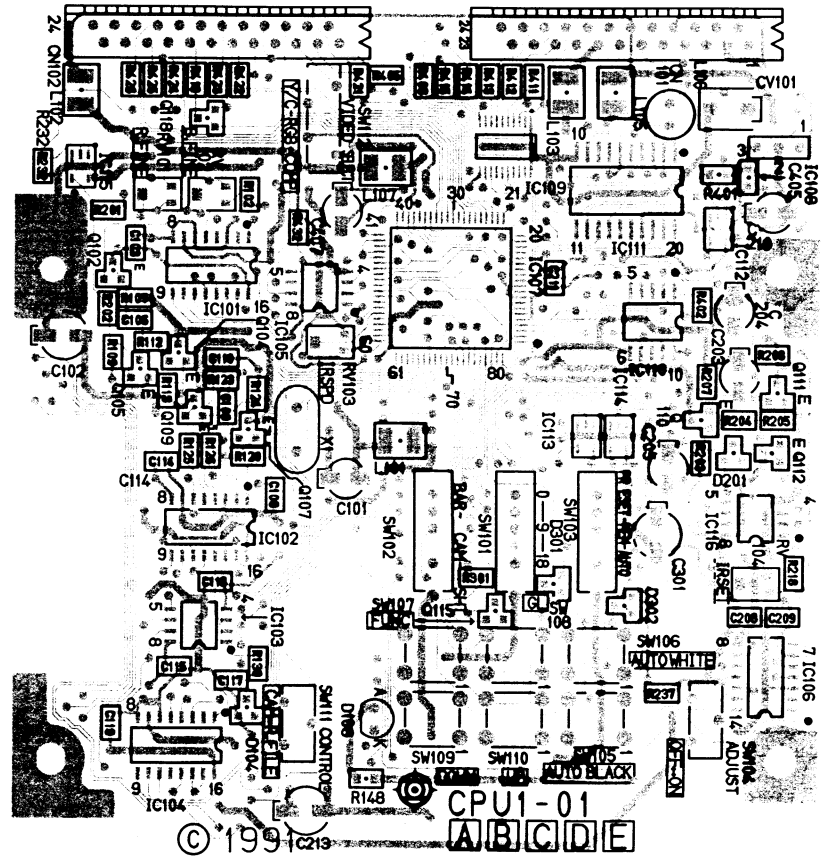


(PL) - PLASTIC
 (M) - METAL
 (T) - TA ELYC
 (N) - NTSC
 (P) - PAL

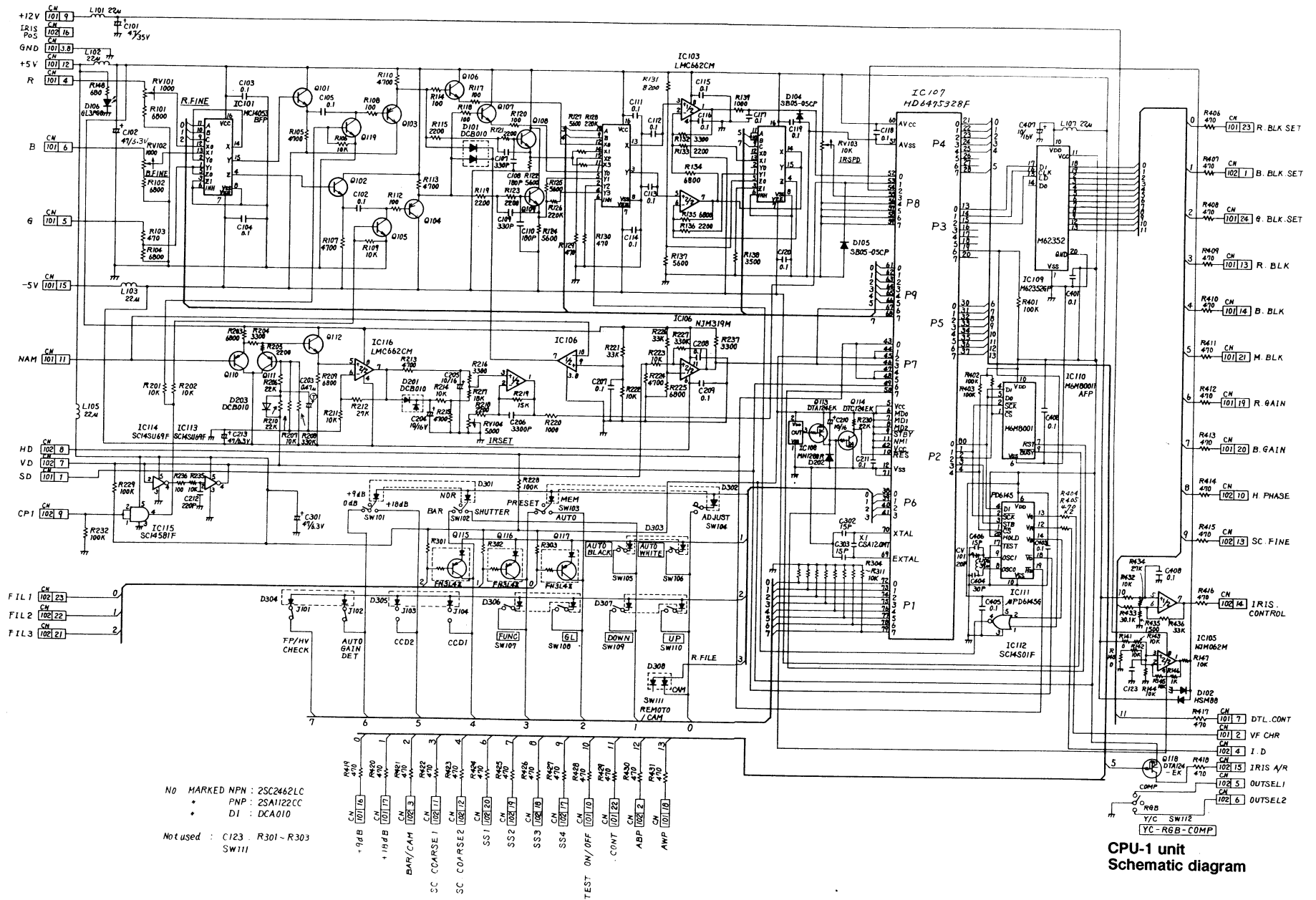
SG/GL unit
 Schematic diagram



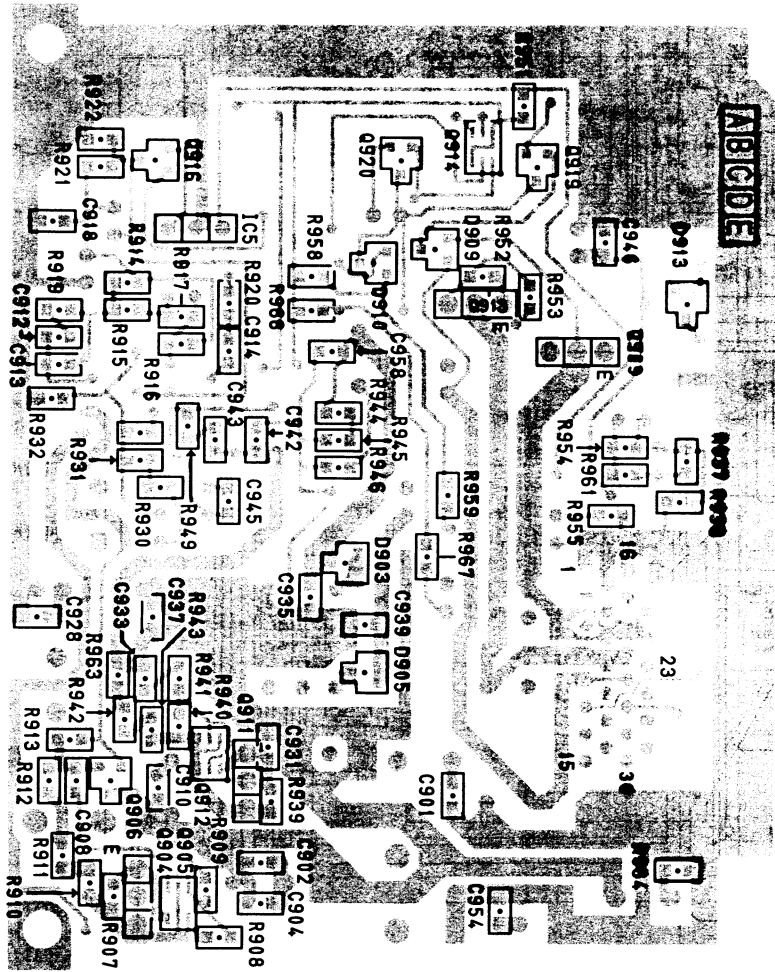
CPU-1 unit (B)



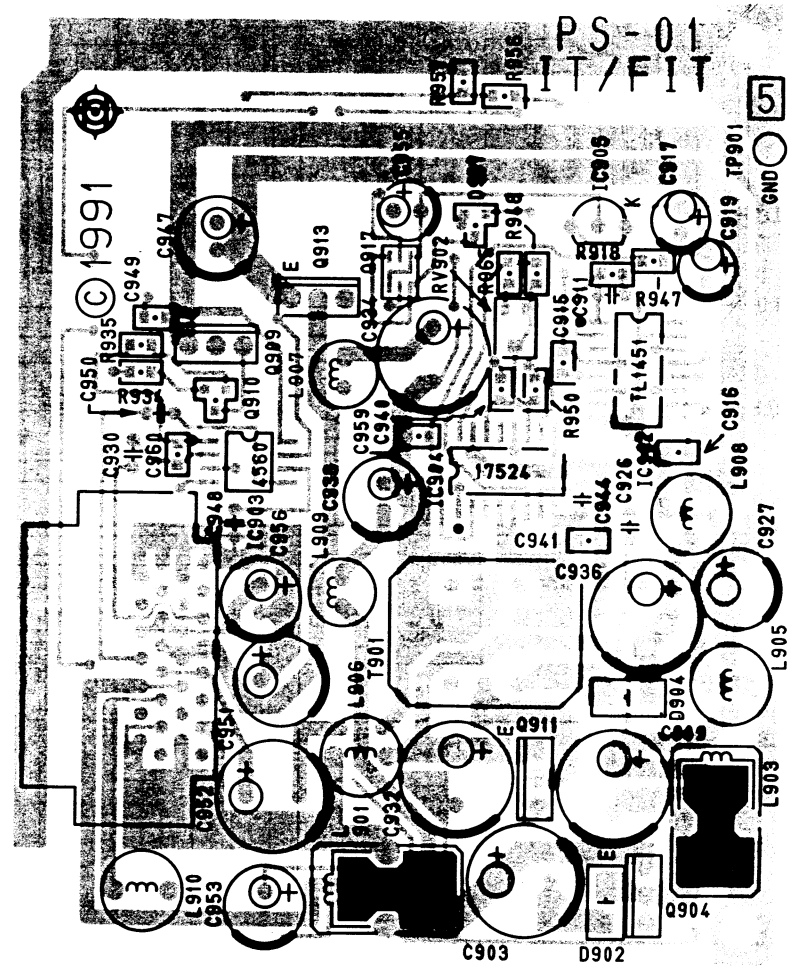
CPU-1 unit (A)



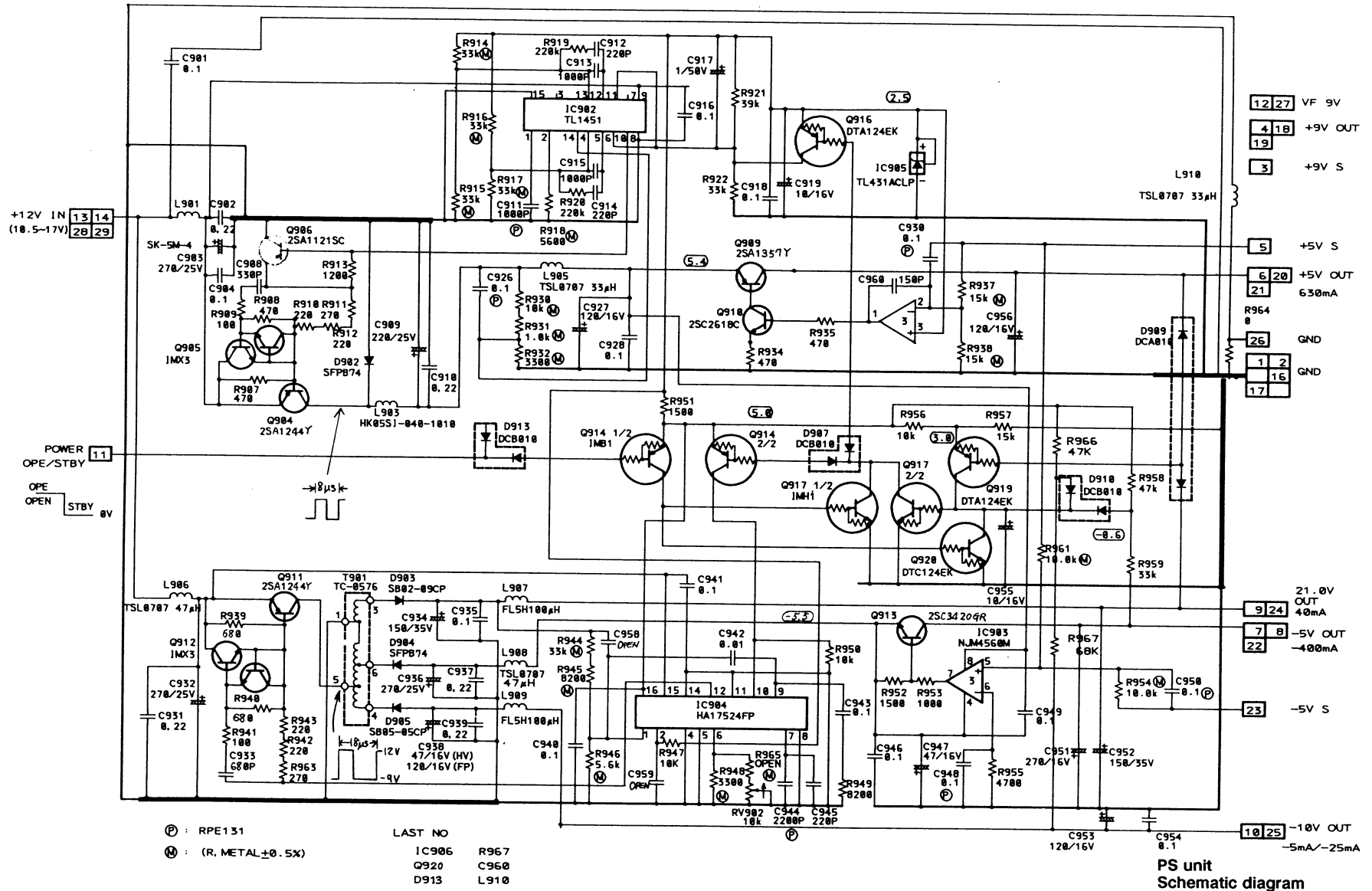
CPU-1 unit
 Schematic diagram

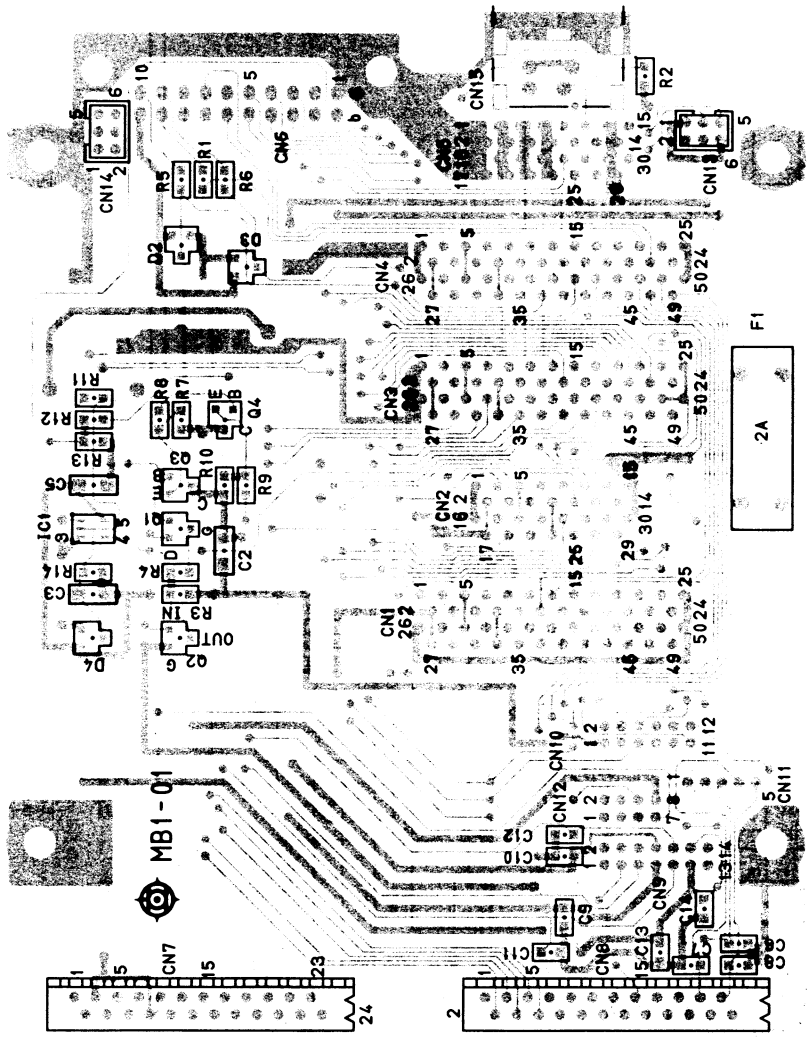


PS unit (B)

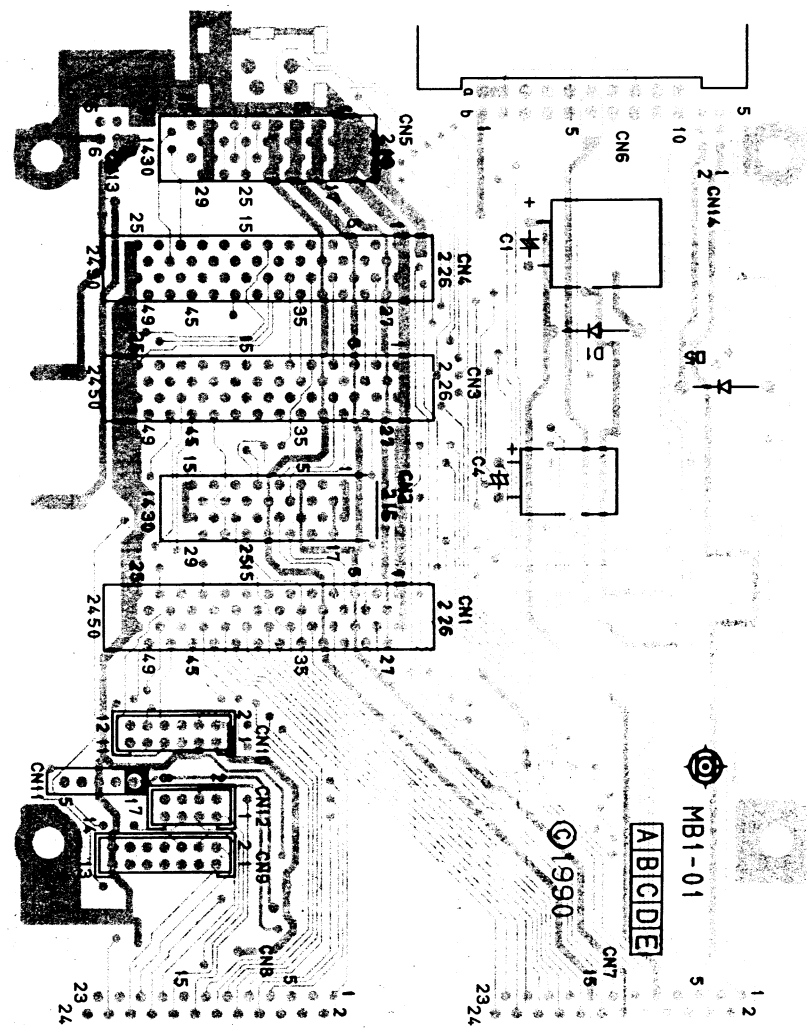


PS unit (A)

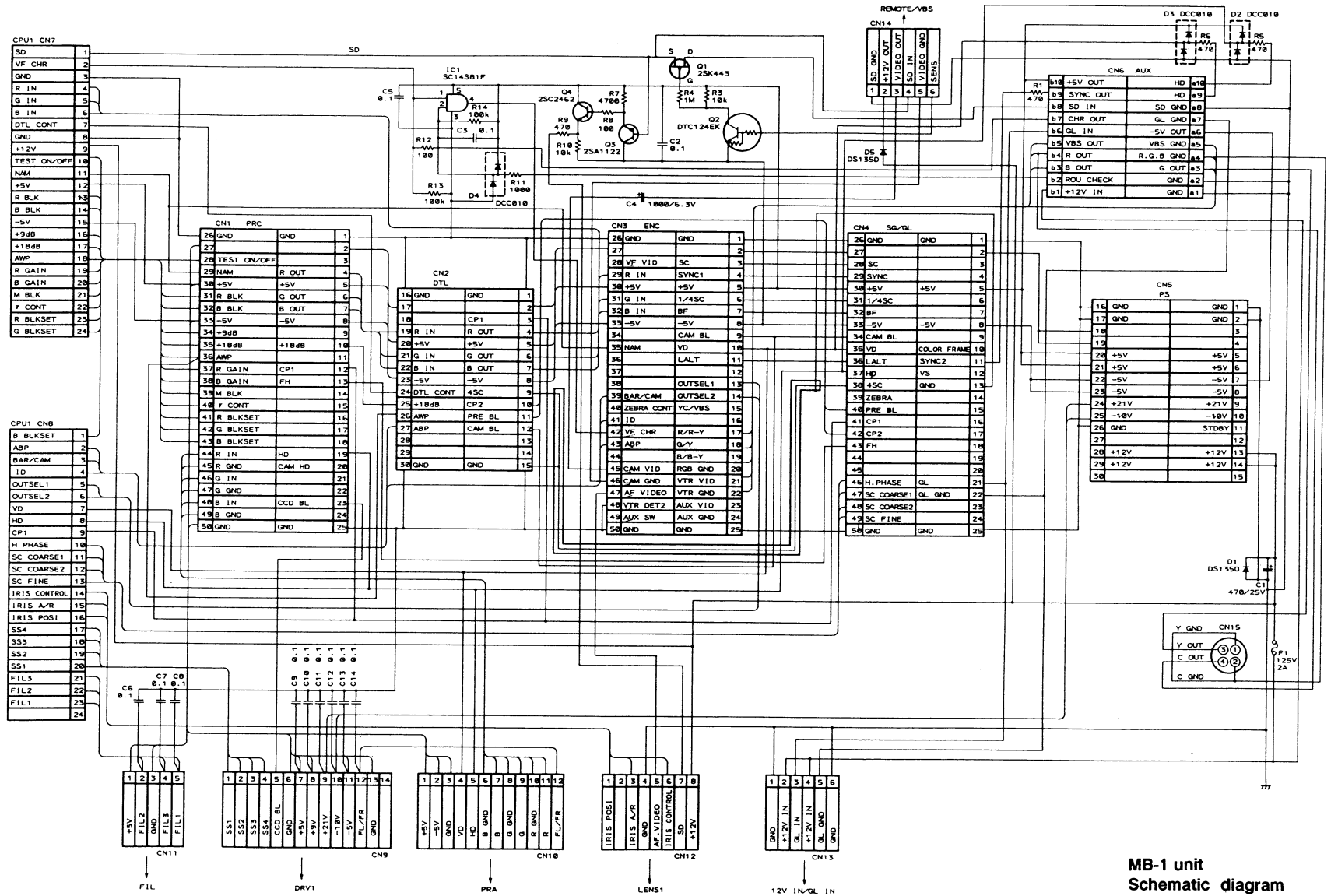




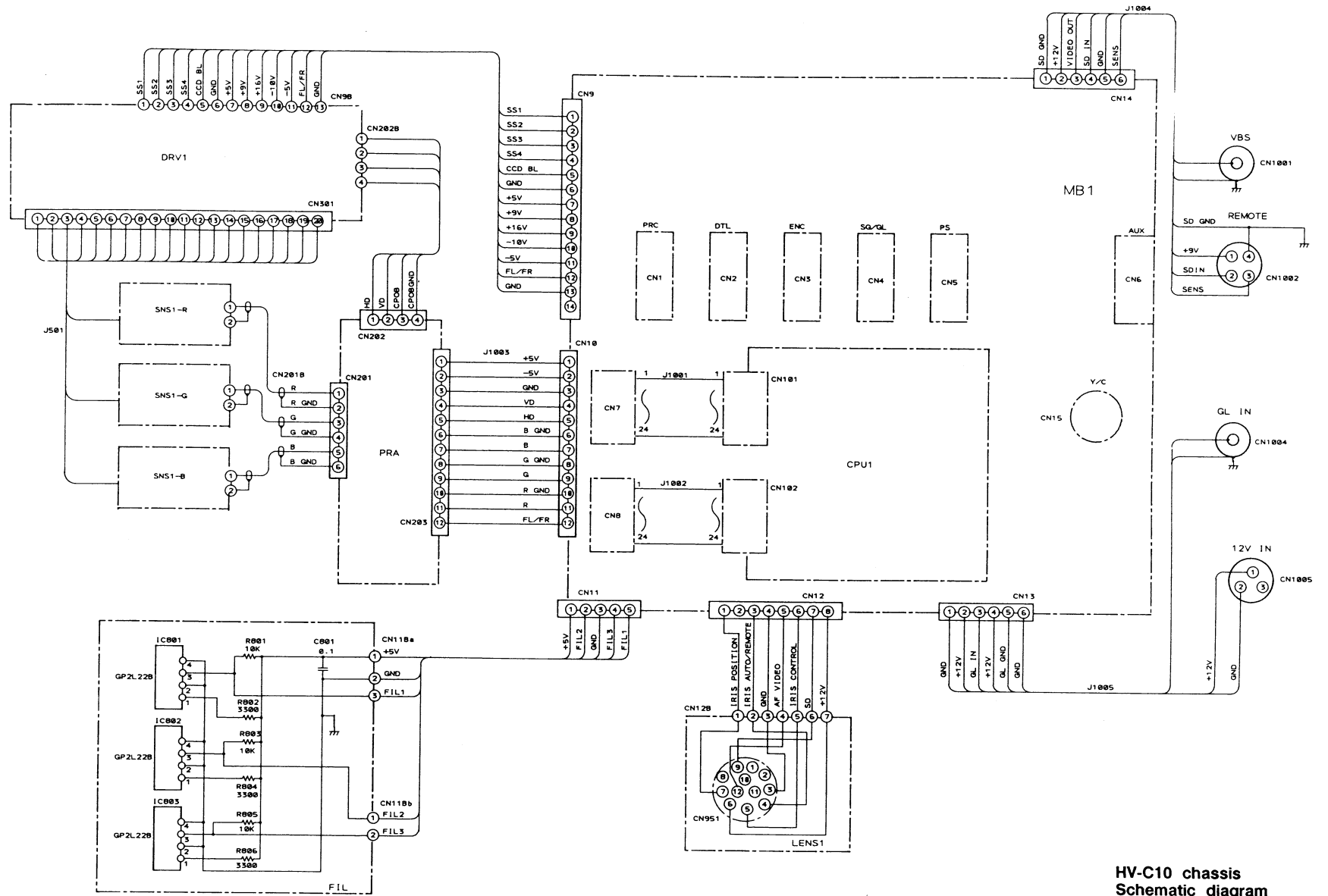
MB-1 unit (B)



MB-1 unit (A)



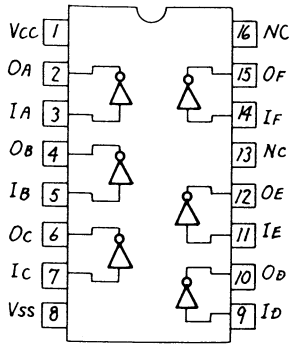
MB-1 unit Schematic diagram



**HV-C10 chassis
Schematic diagram**

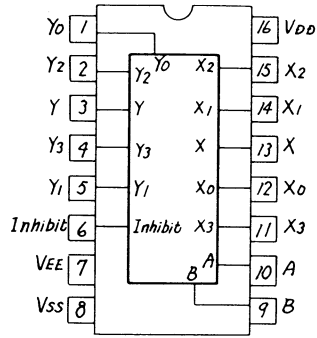
8. ICS INTERNAL VIEW

HD14049UBFP



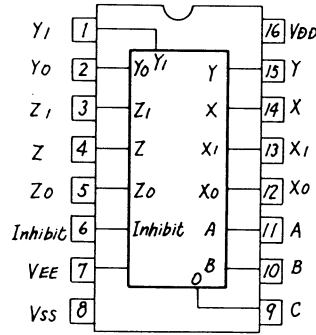
(TOP VIEW)

HD14052BFP



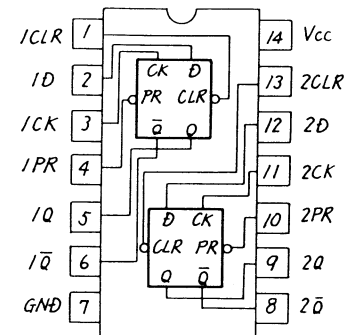
(TOP VIEW)

HD14053BFP
MN74HC4053S



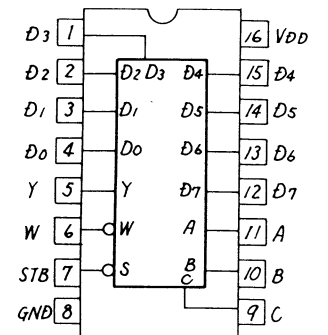
(TOP VIEW)

TC74HC74AF
TC40H074F



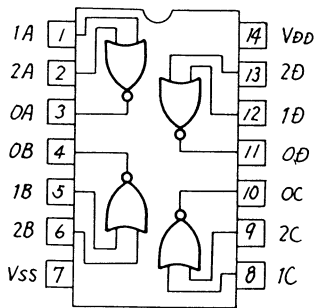
(TOP VIEW)

TC40H151F



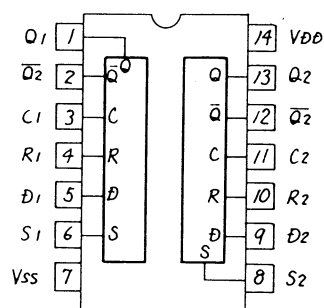
(TOP VIEW)

HD14001BFP



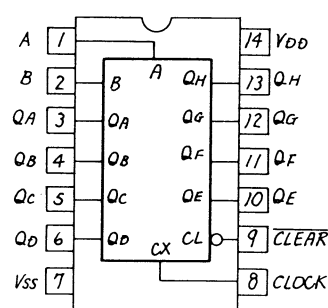
(TOP VIEW)

HD14013BFP



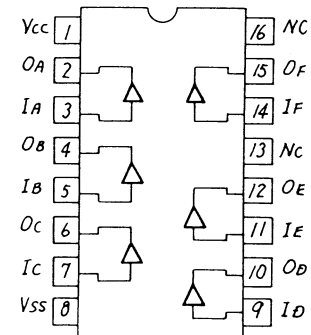
(TOP VIEW)

HD74HC164FP



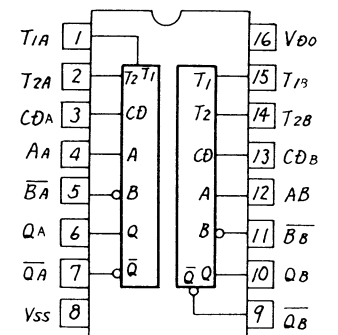
(TOP VIEW)

HD14050BFP
MN74HC4050S



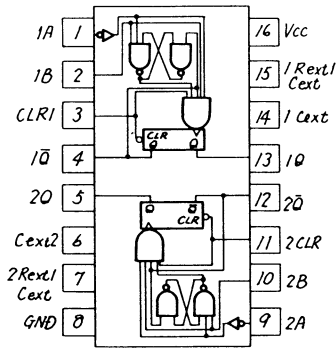
(TOP VIEW)

TC74HC4538F



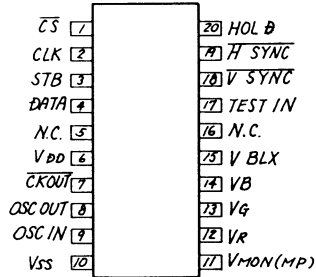
(TOP VIEW)

SN74LS221NS



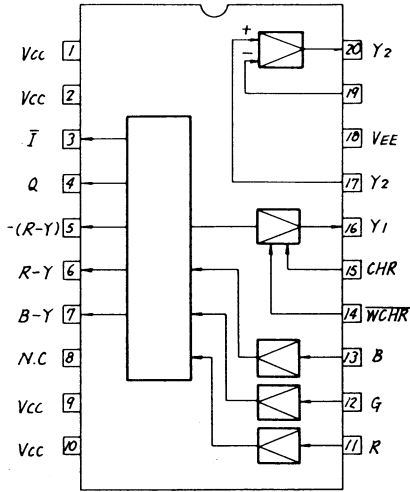
(TOP VIEW)

μPD6145G



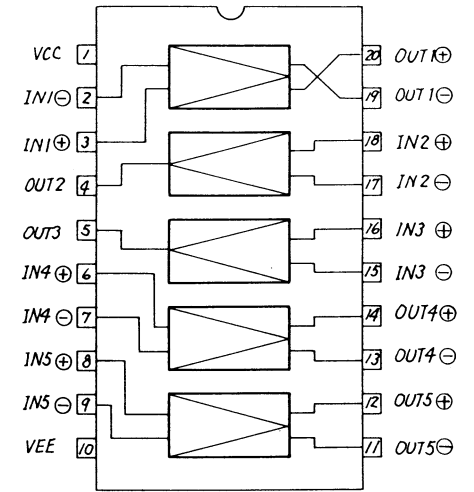
(TOP VIEW)

DBM1128AFP



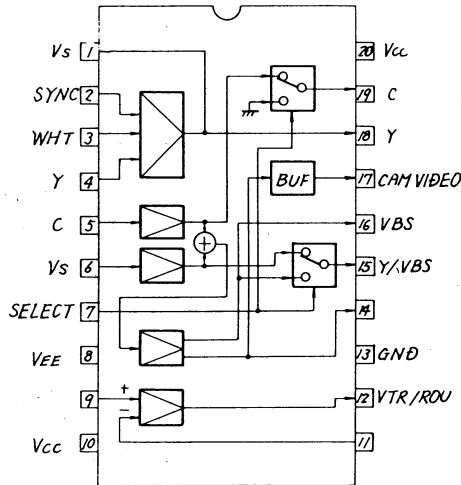
(TOP VIEW)

DBM2118AFP



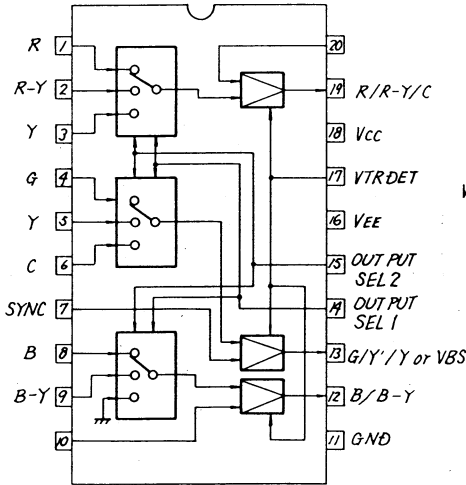
(TOP VIEW)

DBM2101BFP



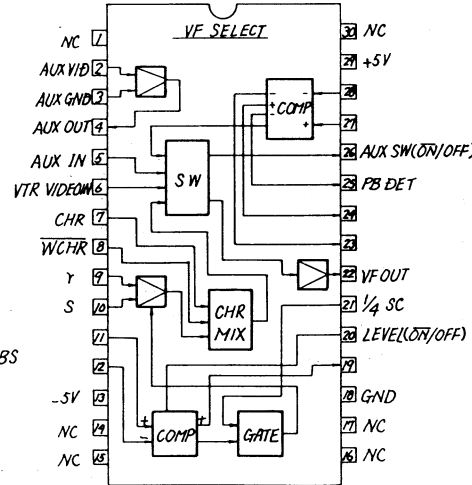
(TOP VIEW)

DBM2102BFP



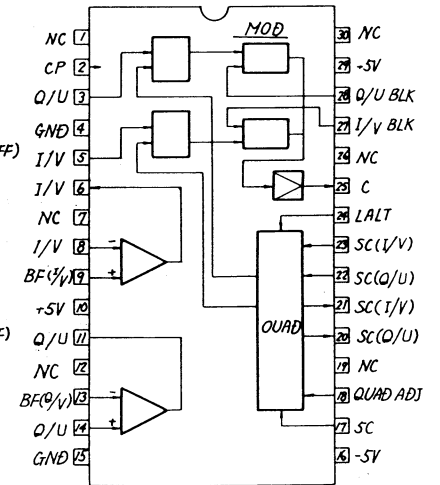
(TOP VIEW)

DBM2103CFP



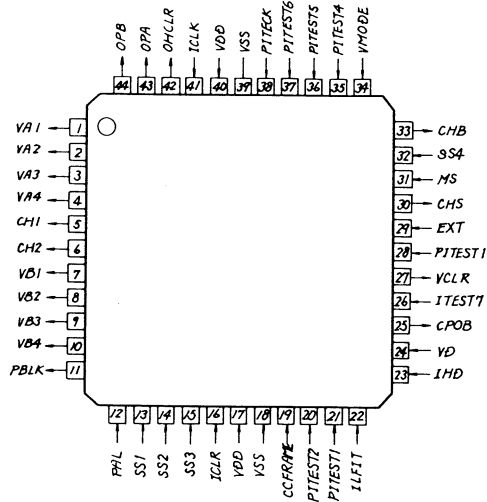
(TOP VIEW)

DBM2104BFP

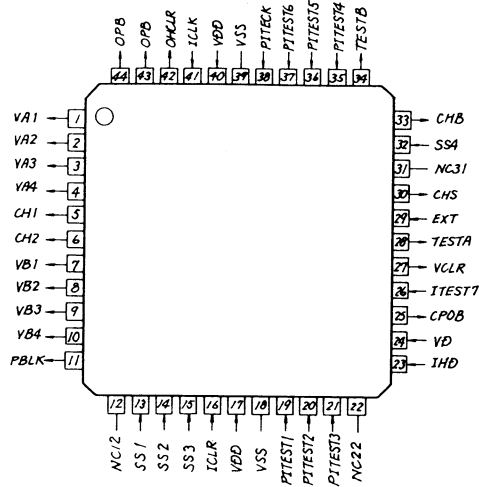


(TOP VIEW)

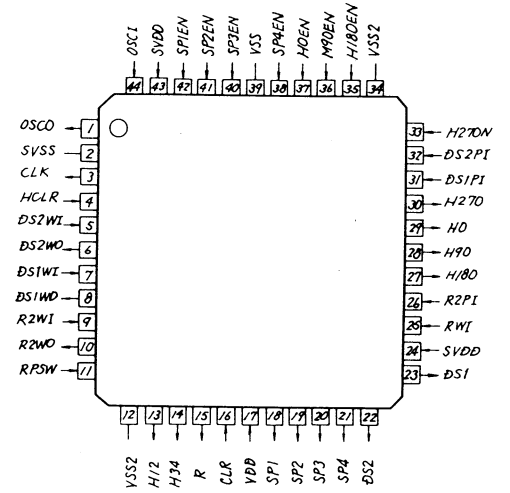
MN53020XXE



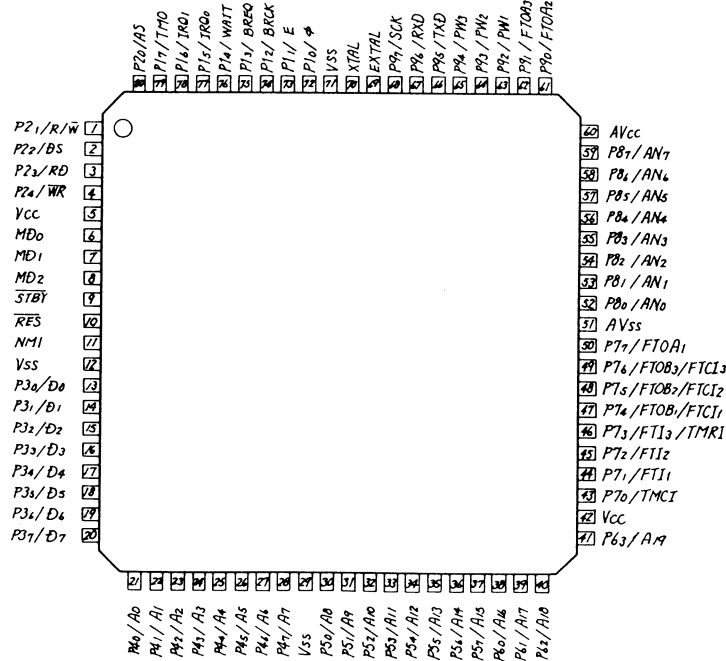
MN53020XXC



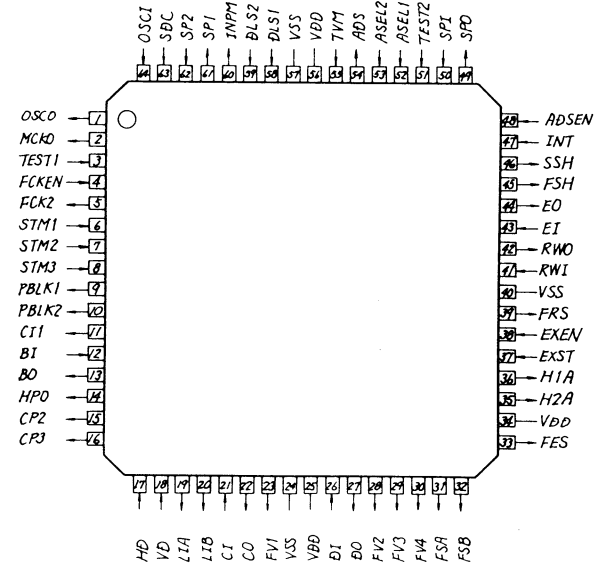
MN53003XC



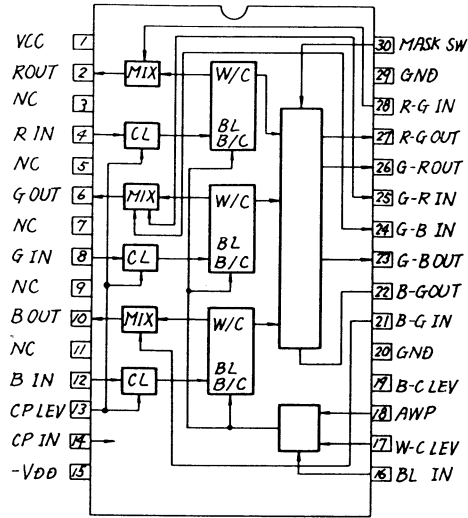
HD6475328F



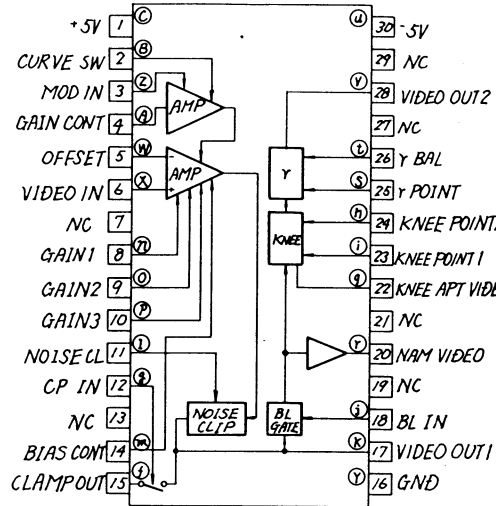
MB621488U



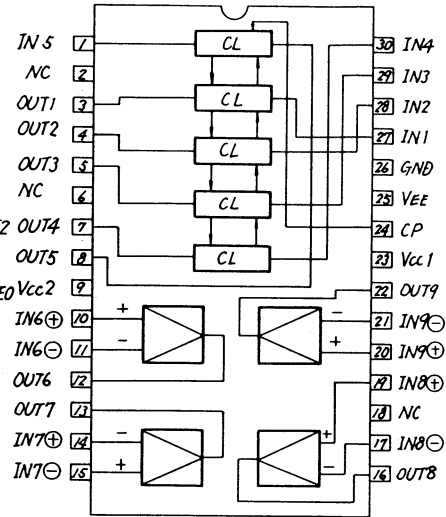
DBM2114AFP



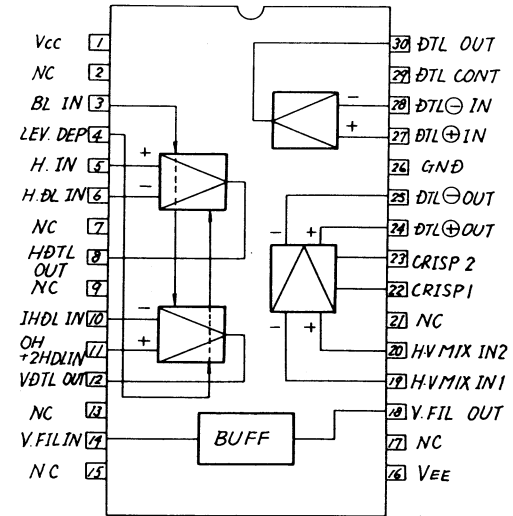
DBM2115AFP



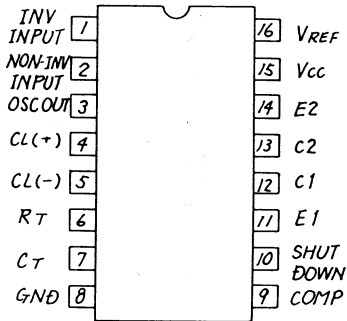
DBM2116AFP



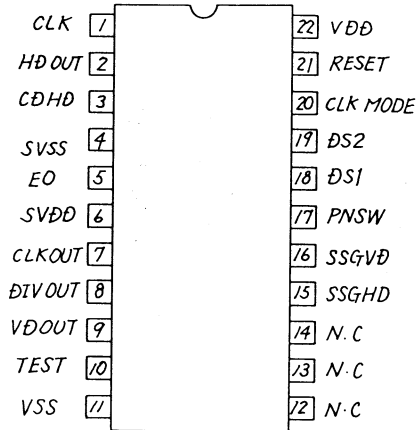
DBM2117AFP



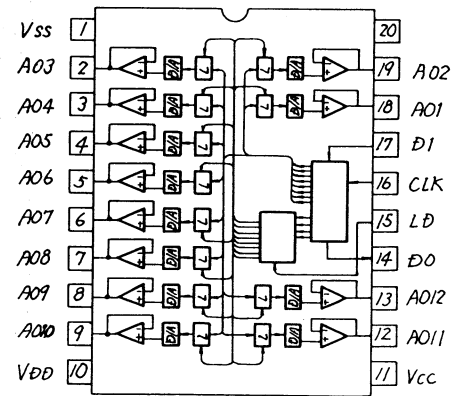
HA17524FP



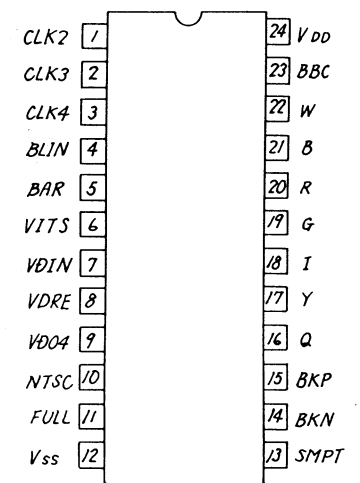
MN5117S



M62352GP

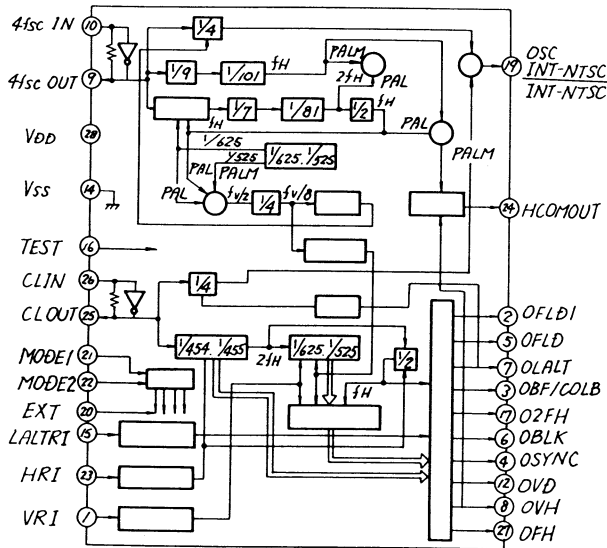


MB62113

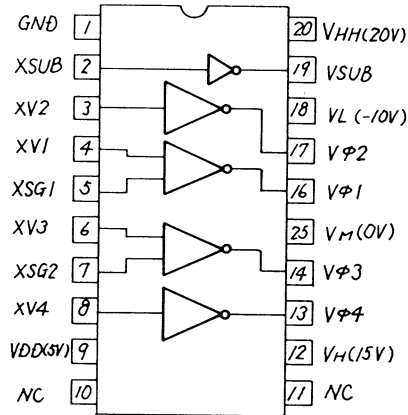


(TOP VIEW)

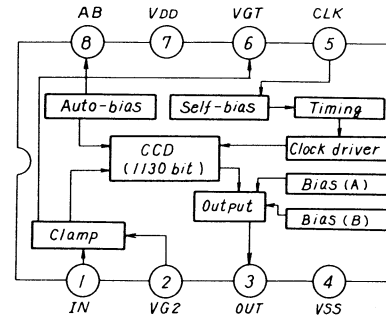
CXD1217M



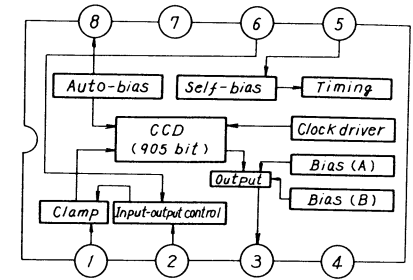
CXD1250M



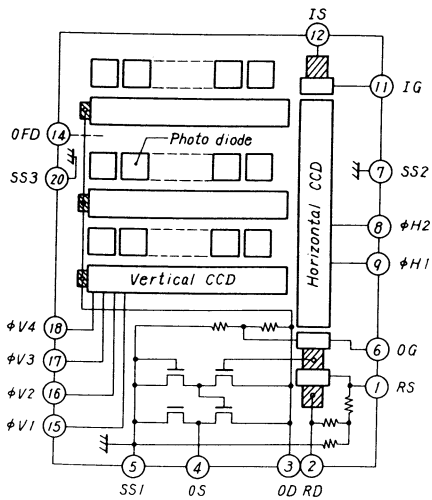
CXL5506M



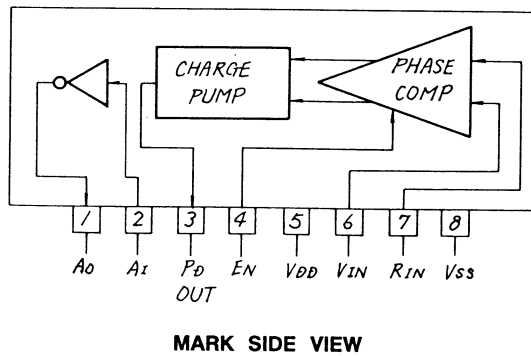
CXL5504M



**TCD5200D
TCD5210D**

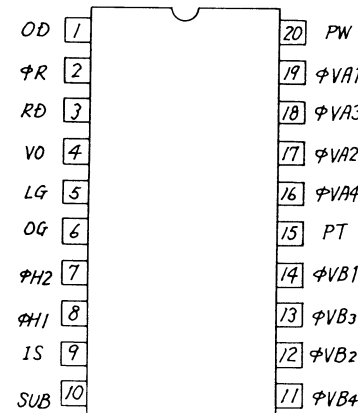


CX23065

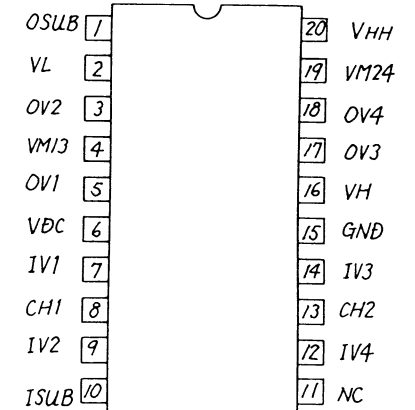


MARK SIDE VIEW

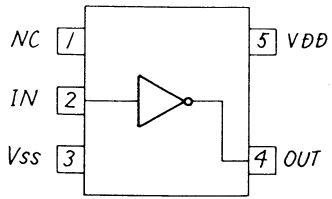
MW3753



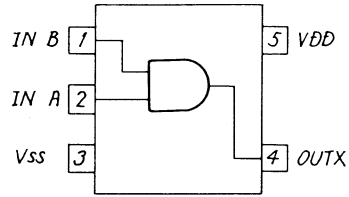
MN3110SA



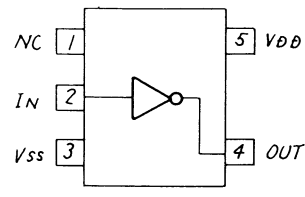
TC7SU04F



SC14S81F

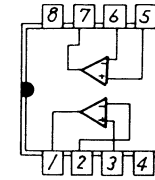


SC14SU69F



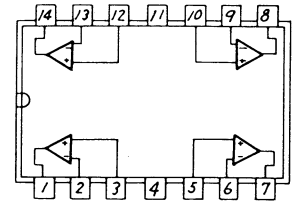
(TOP VIEW)

NJM062M



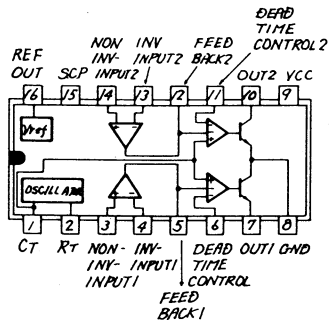
1. OUT PUT
2. INV INPUT
3. NON INV INPUT
4. V⁻
5. NON INV INPUT
6. INV INPUT
7. OUT PUT
8. V⁺

NJM064M

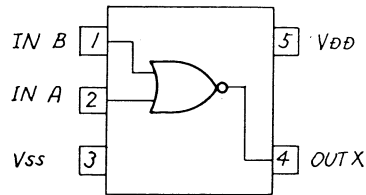


- | | |
|--------------------|---------------------|
| 1. OUTPUT | 8. OUTPUT |
| 2. INV INPUT | 9. INV INPUT |
| 3. NON INV INPUT | 10. NON INV INPUT |
| 4. V _{CC} | 11. V _{EE} |
| 5. NON INV INPUT | 12. NON INV INPUT |
| 6. INV INPUT | 13. INV INPUT |
| 7. OUTPUT | 14. OUTPUT |

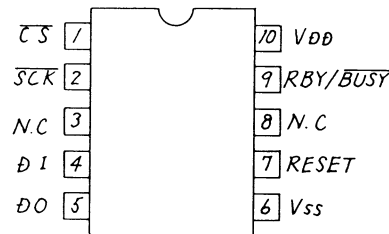
TL-1451ACNS



TC4S01F

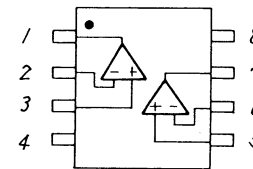


M6M80011AFP



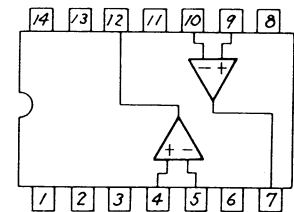
(TOP VIEW)

NJM5532M



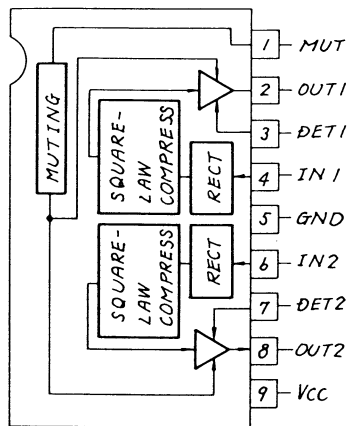
1. A OUTPUT
2. A- INPUT
3. A+ INPUT
4. V⁻
5. B+ INPUT
6. B- INPUT
7. B OUTPUT
8. V⁺

NJM319M

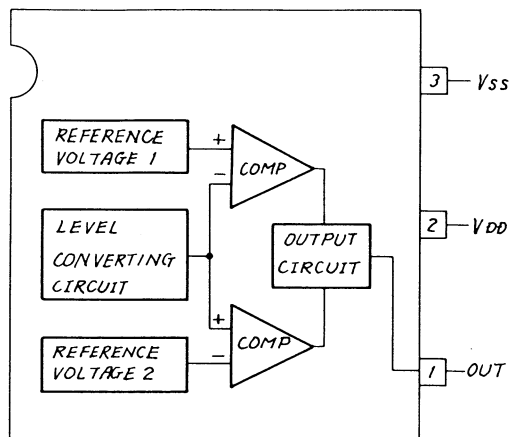


- | | |
|-------------------|-------------|
| 1. NC | 8. GND2 |
| 2. NC | 9. +INPUT2 |
| 3. GND1 | 10. -INPUT2 |
| 4. +INPUT1 | 11. +V |
| 5. -INPUT1 | 12. OUTPUT1 |
| 6. V ⁻ | 13. NC |
| 7. OUTPUT2 | 14. NC |

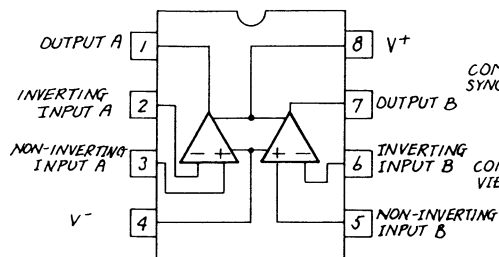
BA6138



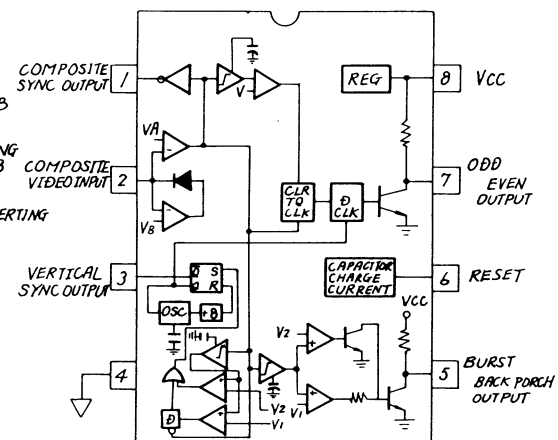
MN1280R



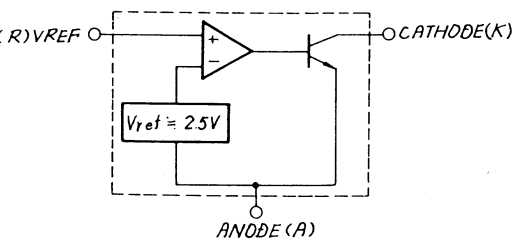
LMC662CM



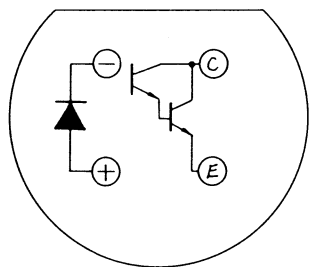
LM1881M



TL431ACL

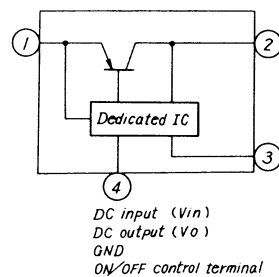


GP2L22B

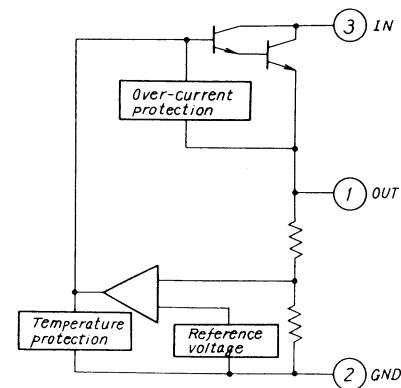


BOTTOM VIEW

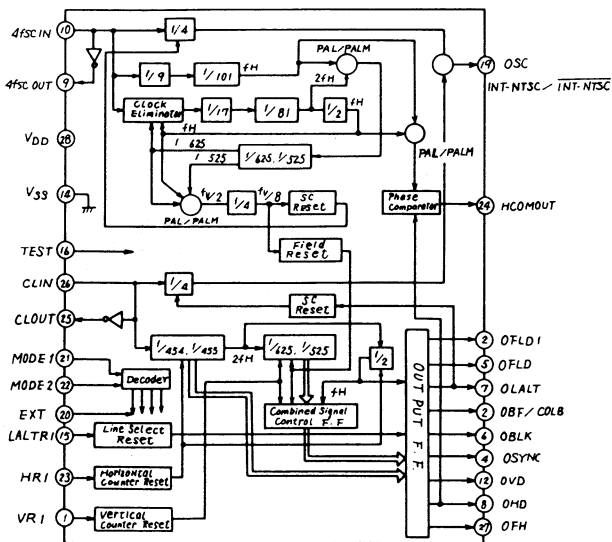
PQ09RF1



HA178L15UA

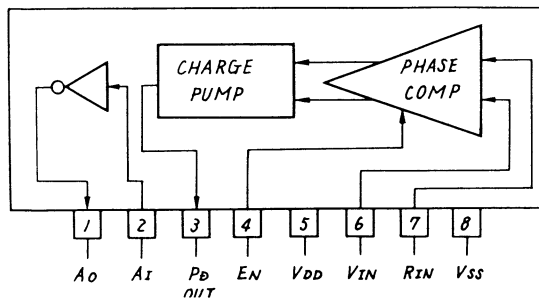


CX-7930A



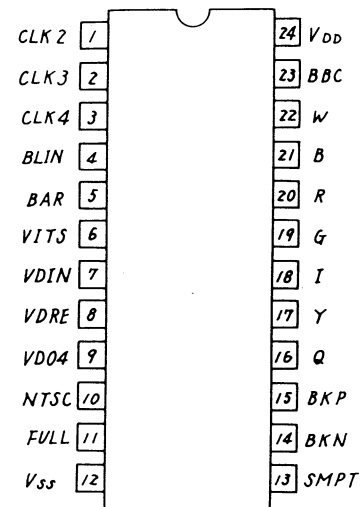
Note: Output ⑭ is a signal based on ⑳ INT mode for NTSC. In other modes, the output is a signal based on ⑩.

CX23065



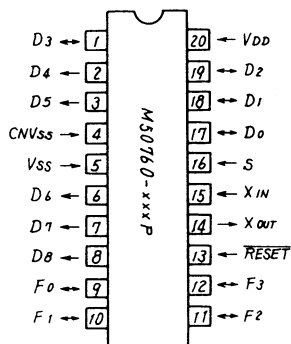
MARK SIDE VIEW

MB62113



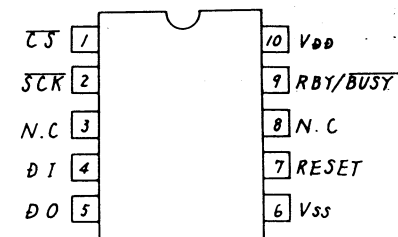
(TOP VIEW)

M50760

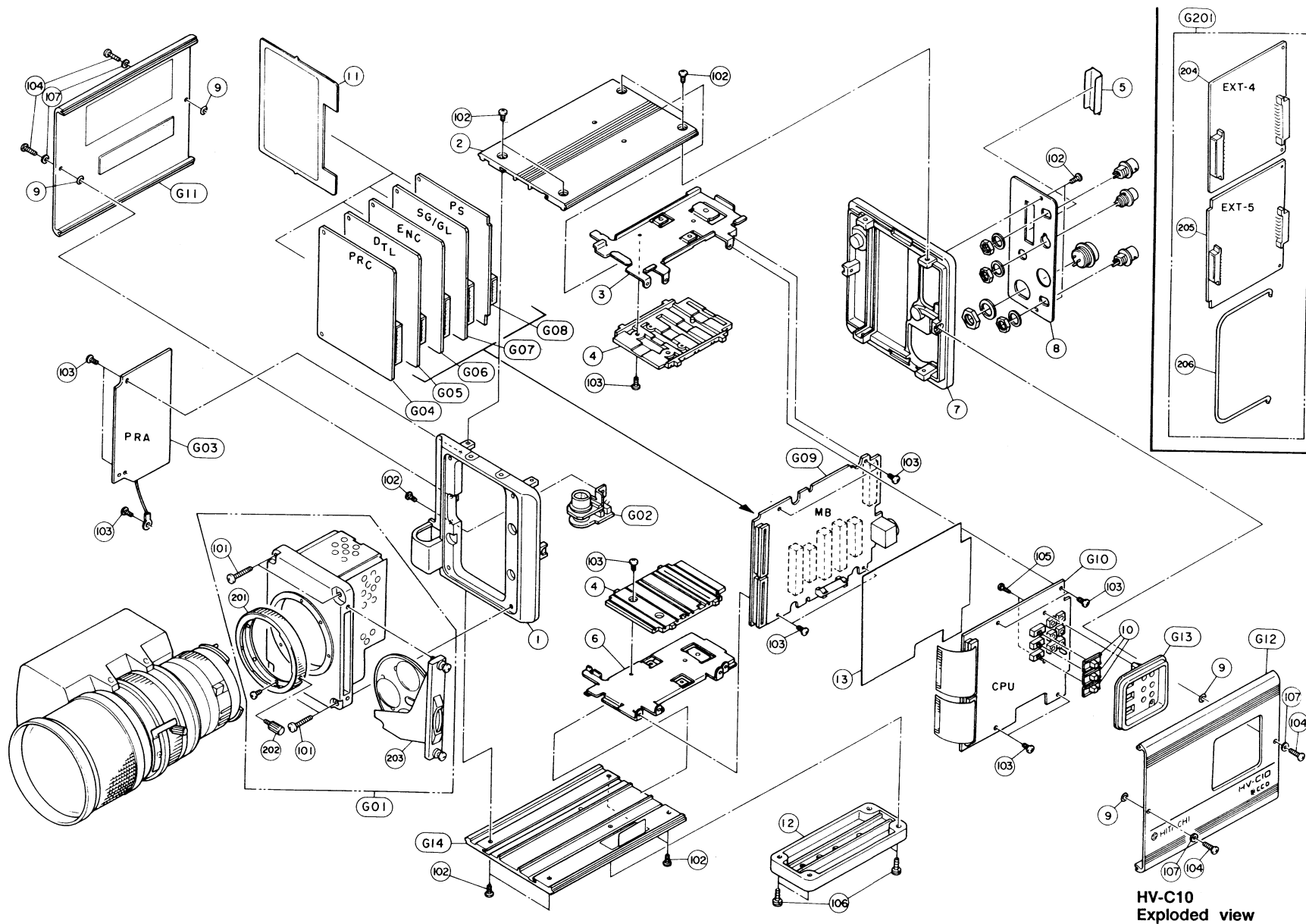


(TOP VIEW)

M6M80011FP

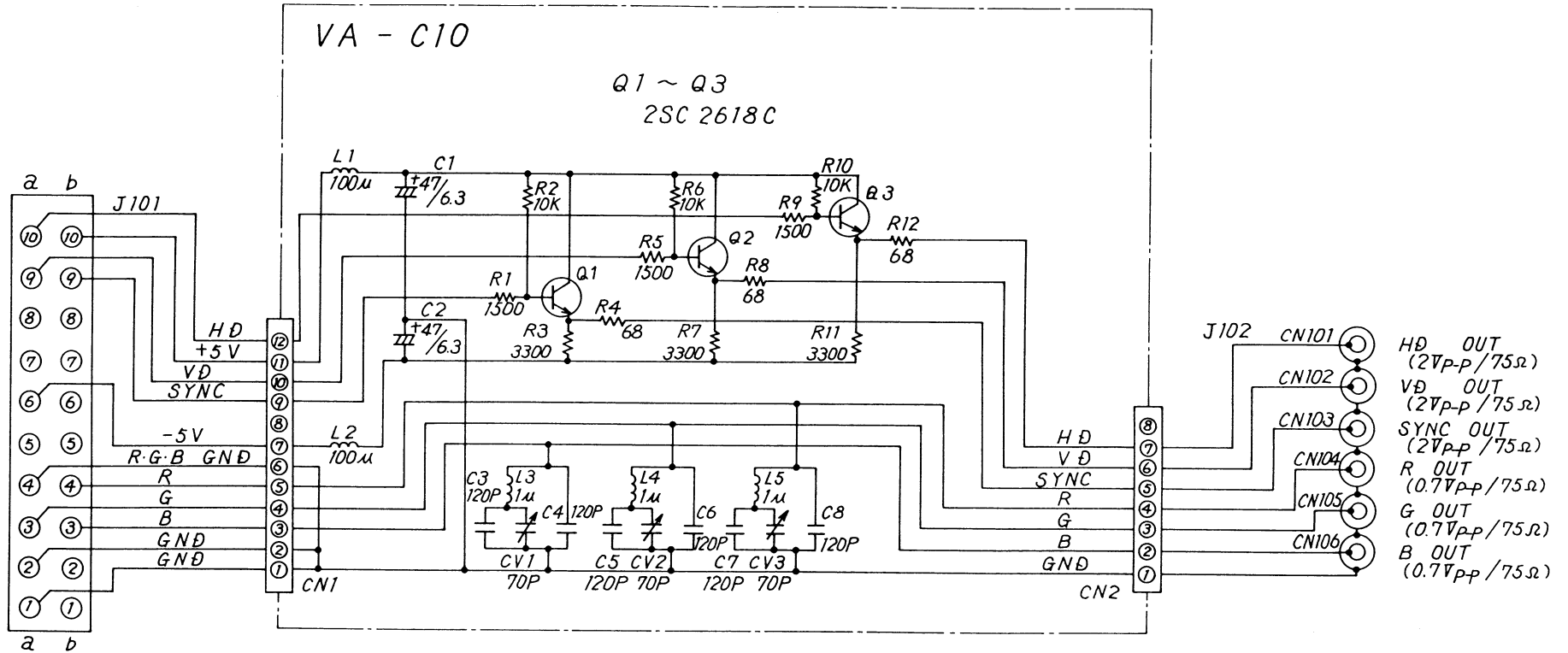


(TOP VIEW)



HV-C10
Exploded view

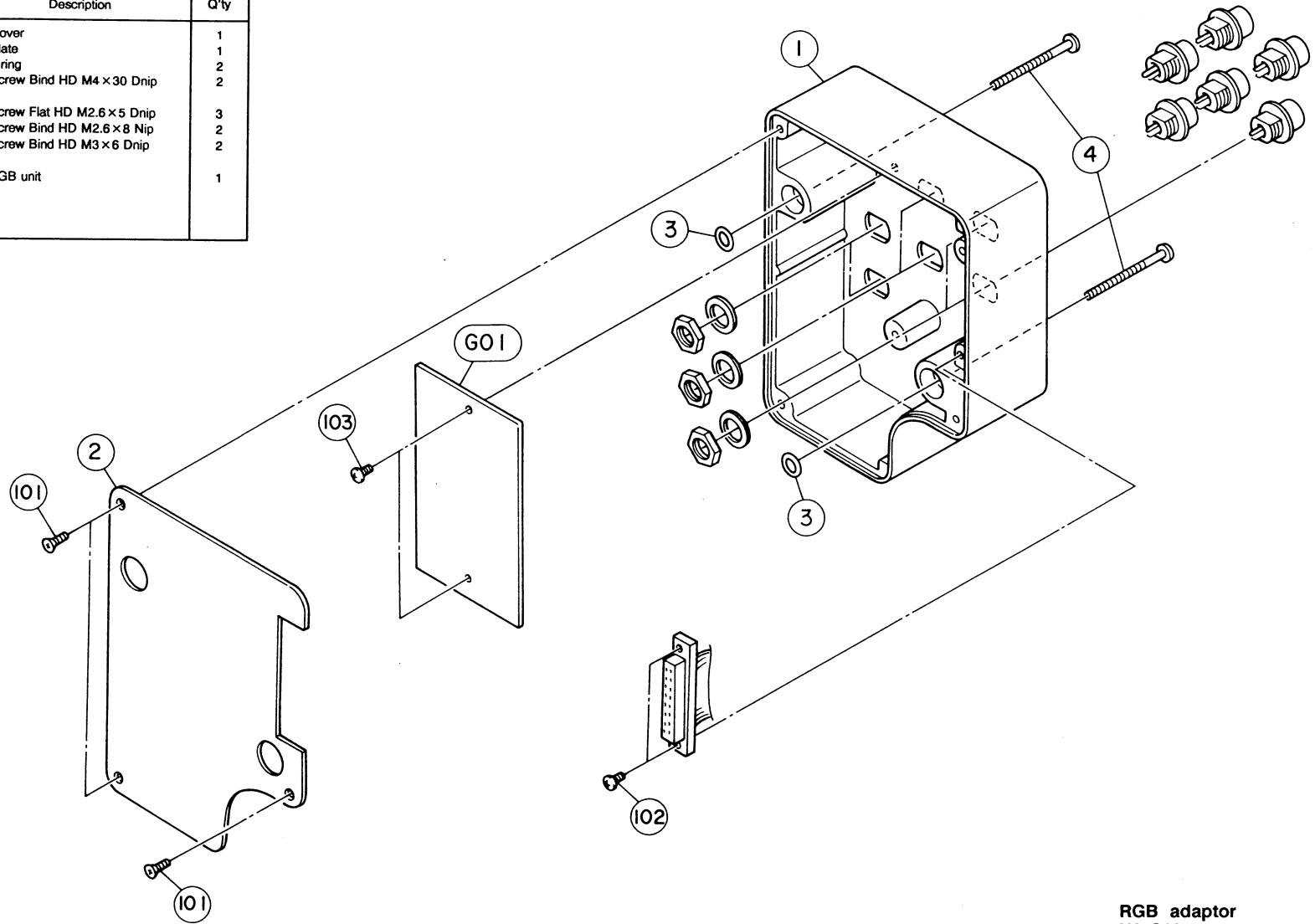
11-2 Schematic diagram



RGB adaptor
VA-C10
Schematic diagram

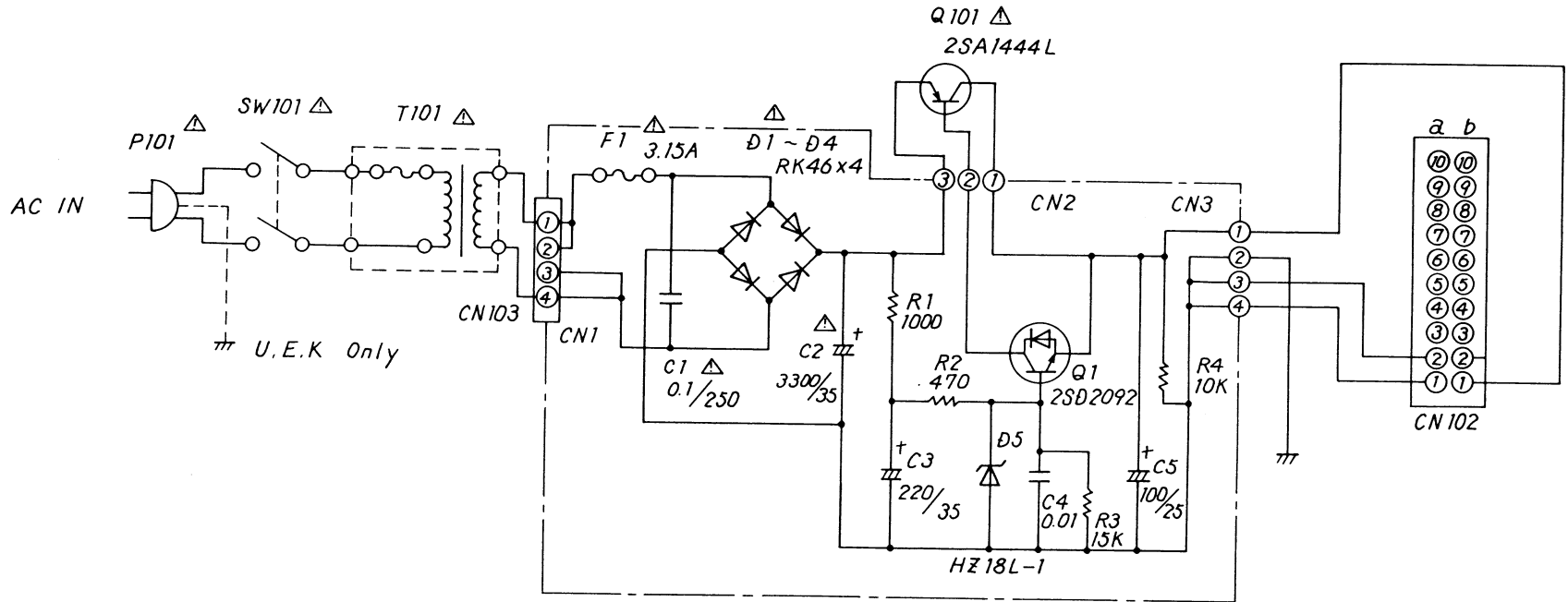
**11-3 MECHANICAL PARTS LIST AND EXPLODED VIEW
VA-C10**

Part Code	Symbol	Description	Q'ty
1	2137677AA	Cover	1
2	8555514AA	Plate	1
3	4051873A	o ring	2
4	8487483E	Screw Bind HD M4 x30 Dnip	2
101	8370596E	Screw Flat HD M2.6 x5 Dnip	3
102	XCA6008	Screw Bind HD M2.6 x8 Nip	2
103	XCA1817	Screw Bind HD M3 x6 Dnip	2
G01	24X0209	RGB unit	1



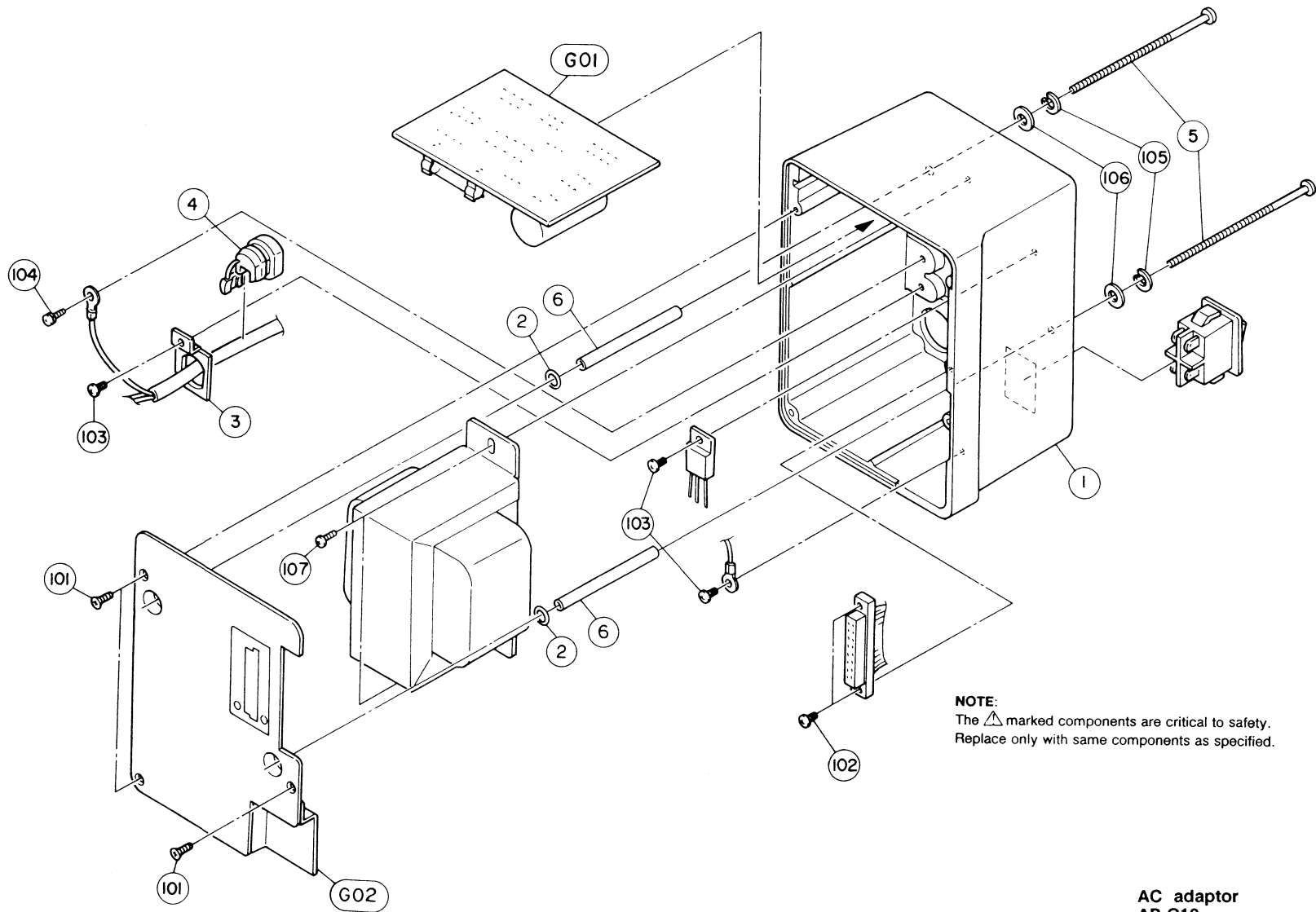
**RGB adaptor
VA-C10
Exploded view**

12-2 Schematic diagram



NOTE:
 The \triangle marked components are critical to safety.
 Replace only with same components as specified.

**AC adaptor
 AP-C10
 Schematic diagram**



AC adaptor
 AP-C10
 Exploded view