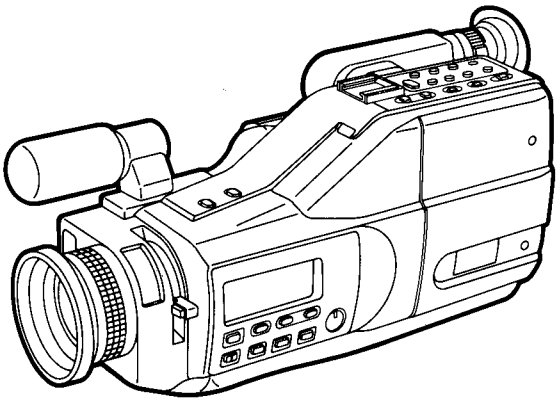
DEC. 1989

MITSUBISHI Service Manual

VIDEO CAMERA/RECORDER



S-VHS-C
VHS-C

MODEL

HS-C40E

Only cassettes marked S-VHS-C or VHS-C can be used with this video cassette recorder.

SPECIFICATIONS

Format	: S-VHS-C and VHS-C standard
Power source	: DC 9.6 V⎓
Power consumption	: Approx. 12 Watts
Signal system	: PAL System
Recording system	: Luminance: FM recording Color: Converted sub-carrier direct recording Conforms to S-VHS/VHS standard
Cassette	: VHS-C cassette, S-VHS-C cassette
Tape speed (SP)	: 23.39mm/sec (1-5/16 ips)
(LP)	: 11.70mm/sec (7/16 ips)
Recording time	
Max. (SP)	: 30 minutes (with SE-C30 cassette)
(LP)	: 60 minutes (with SE-C30 cassette)
VIDEO	
Output	: 1Vp-p, 75 ohms, unbalanced (via AV OUT connector)
AUDIO	
Output	: −6dBs, 1k-ohm (via AV OUT connector)
Microphone input	: −68dBs, high impedance, unbalanced
Pick up	: 12.7mm-format CCD
Minimum required illumination	: 9 lux
Lens	: f/1.4, f = 8.5 — 68mm, 8:1 power zoom lens with auto iris control Filter diameter 49mm
Viewfinder	: Electronic viewfinder with 17mm black/white CRT
White balance adjustment	: Full-auto/switchable INDOOR or OUTDOOR
Operating temperature	: 0°C to +40°C
Operating humidity	: 35% to 80%
Weight	: 1.6kg (with EVF)
Dimensions	: 130(W) × 145(H) × 345(D)mm

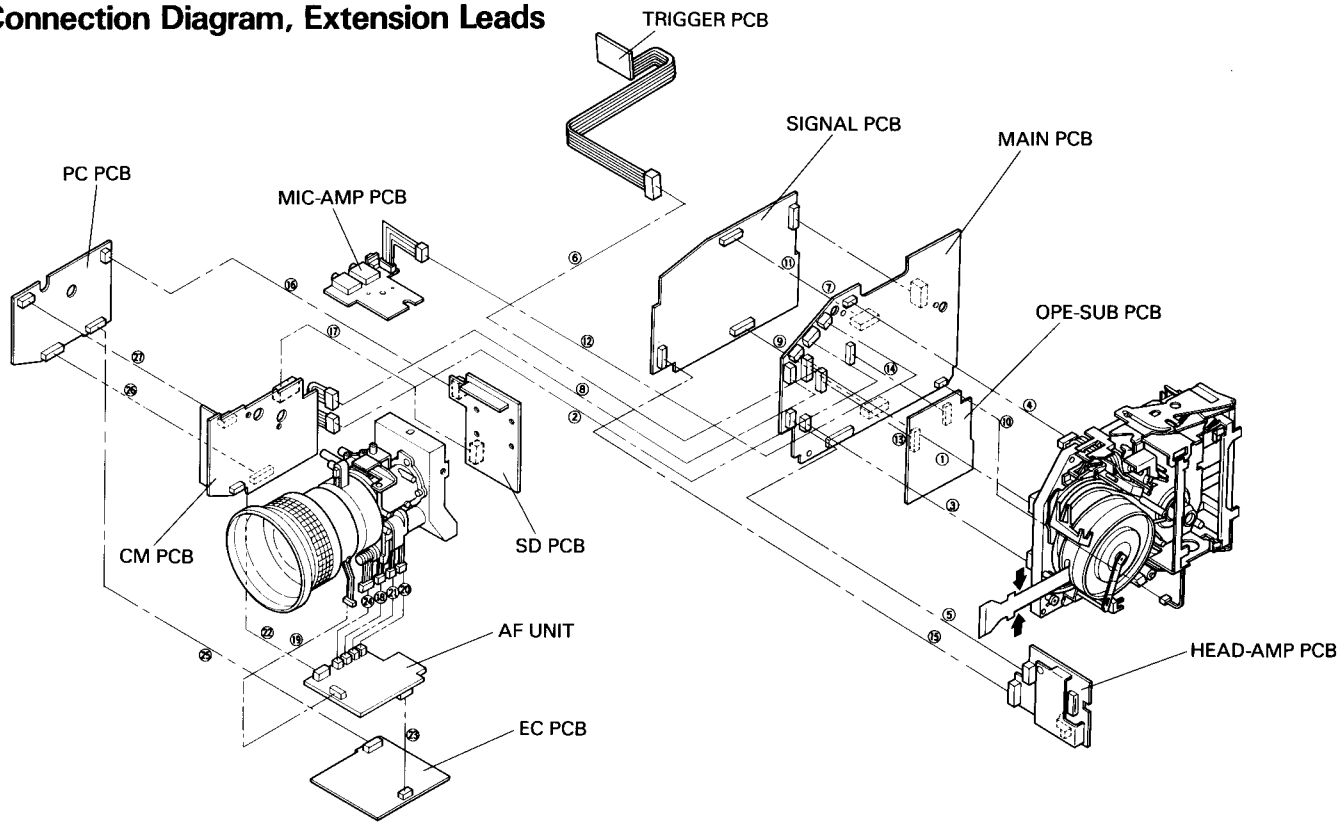
AC POWER ADAPTER DA-C40E

Power source	: AC 110 ~ 240V (50/60Hz)
Power consumption	: 30 watts
Rated output voltage	: DC 10.4V (VCR), DC 9.6V (BATT)
Rated output current	: 1.4A (VCR), 1.2A (BATT)
Charging system	: Constant current, voltage controlled
Dimensions	: 68.4(W) × 40.5(H) × 150(D)mm
Weight	: Approx. 400g (0.8 lbs)

MITSUBISHI ELECTRIC CORPORATION
Head Office: Mitsubishi Denki Building. Marunouchi Tokyo, Japan

CONTENTS

Connection Diagram, Extension Leads



Extension Leads No.	Mode	Connectors to be separated				Note
		Parts Name	Connector	Parts Name	Connector	
1	PCB-PCB	MAIN PCB	MA	MDA PCB	AA	20 Pin
2	PCB-LEAD	MAIN PCB	MB	CM PCB	WB	9 Pin
3	PCB-PCB	MAIN PCB	MC	MDA PCB	AC	10 Pin
4	PCB-LEAD	MAIN PCB	MD	A/C HEAD	MD	5 Pin
5	PCB-PCB	MAIN PCB	ME	HEAD-AMP PCB	HE	14 Pin
6	PCB-LEAD	MAIN PCB	MF	TRIGGER PCB	KF	7 Pin
7	PCB-PCB	MAIN PCB	MG	SIGNAL PCB	SG	20 Pin
8	PCB-LEAD	MAIN PCB	MH	CM PCB	WH	5 Pin
9	PCB-PCB	MAIN PCB	MK	SIGNAL PCB	SK	20 Pin
10	PCB-LEAD	MAIN PCB	ML	LODING MOTOR	ML	3 Pin
11	PCB-PCB	MAIN PCB	MM	SIGNAL PCB	SM	20 Pin
12	PCB-LEAD	MAIN PCB	MP	MIC-AMP PCB	BP	6 Pin
13	PCB-PCB	MAIN PCB	MY	OPE-SUB PCB	PY	22 Pin
14	PCB-PCB	MAIN PCB	MZ	OPE-SUB PCB	PZ	22 Pin
15	PCB-PCB	SIGNAL PCB	SP	HEAD-AMP PCB	HP	18 Pin
16	PCB-PCB	SD PCB	DA	PC PCB	YA	10 Pin
17	PCB-LEAD	SD PCB	DE	CM PCB	WE	12 Pin
18	PCB-LEAD	AF UNIT	GA	ZOOM RING	GA	3 Pin
19	PCB-LEAD	AF UNIT	GB	FOCUS RING	GB	5 Pin
20	PCB-LEAD	AF UNIT	GC	AF MOTOR	GC	2 Pin
21	PCB-LEAD	AF UNIT	GH	ZOOM MOTOR	GH	2 Pin
22	PCB-PCB	AF UNIT	GJ	CM PCB	WJ	14 Pin
23	PCB-PCB	AF UNIT	GM	EC PCB	EM	6 Pin
24	PCB-LEAD	AF UNIT	GN	IRIS MOTOR	GN	4 Pin
25	PCB-PCB	PC PCB	YB	EC PCB	EB	14 Pin
26	PCB-PCB	PC PCB	YC	CM PCB	WC	14 Pin
27	PCB-PCB	PC PCB	YD	CM PCB	WD	10 Pin

DISASSEMBLY

*In removing the FPC cable, be careful not to touch the exposed terminal of the connector directly as it can cause malfunction.
To remove the terminal, open the connector for FPC cable in the order shown by the arrows in Fig. 1, keep the part with exposed terminal for FPC cable connection downward, then connect in reverse order show by the arrows in Fig. 1.

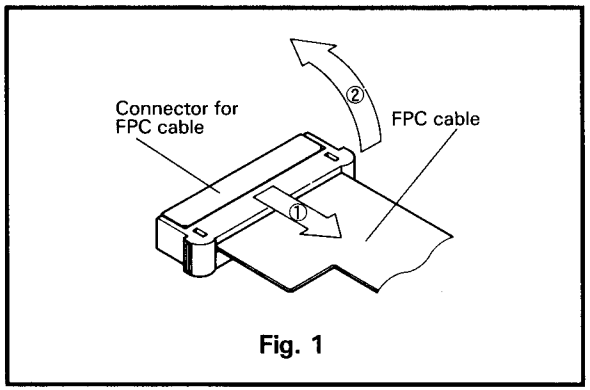


Fig. 1

1. How to Remove Electron View Finder

①Pull out the plug for view finder shown in Fig. 2.
②Turn the view finder shown in Fig. 2 to the direction shown by the arrow.
③Take off the view finder by sliding backward.

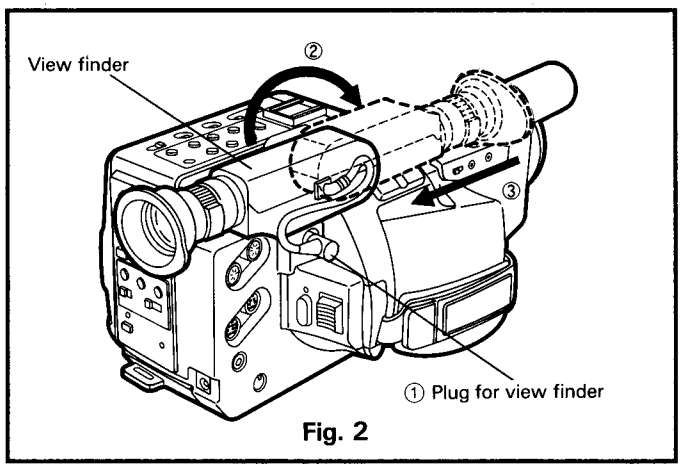
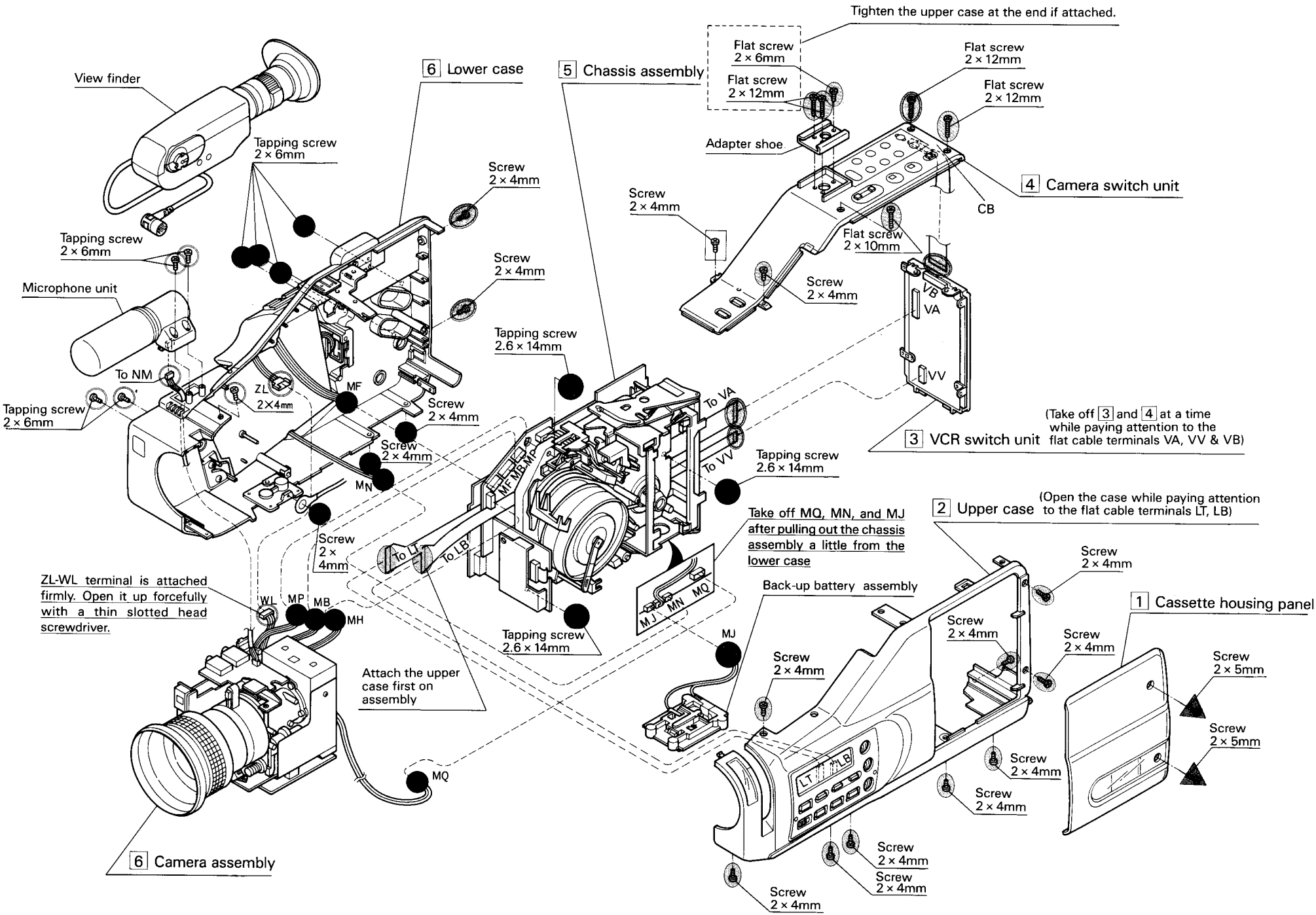


Fig. 2

Case (Outer) Disassembling Procedure

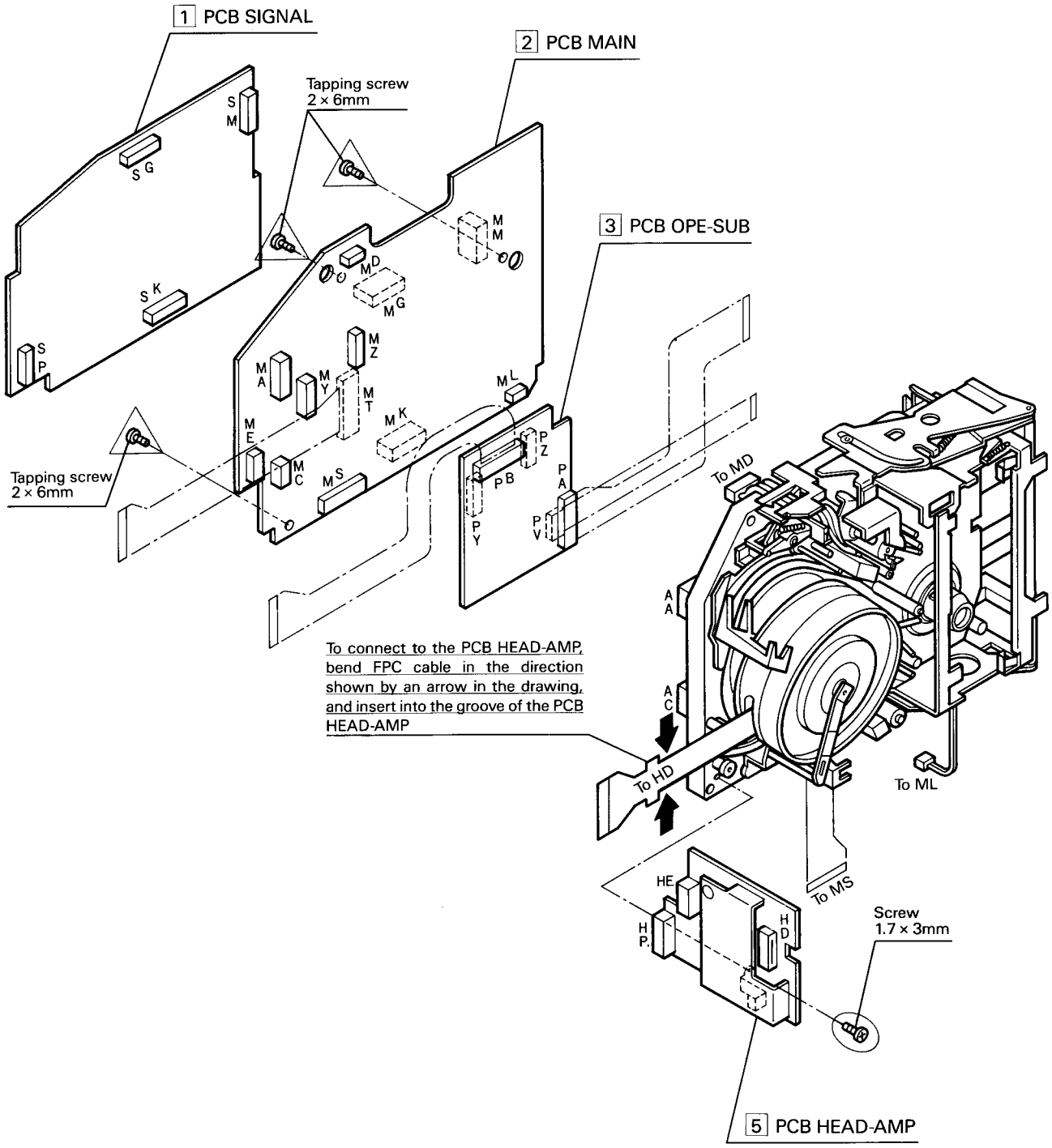
Order	1	2	3	4	5	6	No order of taking off units	
Article name	Cassette housing panel	Upper case	VCR switch unit	Camera switch unit	Chassis assembly	Lower case & Camera assembly	View finder	Microphone unit
Symbol of removed part	▲	⬭	⬭	□	●	○		
Screw and terminal to be removed	Screws-2 pcs.	Screws-15 pcs. Terminals-LT, LB	Take off 3 and 4 at a time while paying attention to the flat cable terminals VA, VV and VB. Screws-4 pcs. Terminals-VA, VV		Screws-10 pcs. Terminals-MQ, MN, MJ, MP, MB, MH, MF	Screws-5 pcs. (Including those for microphone unit) Terminals-ZL/WL, NM	Plug for view finder	Screws-2 pcs. Terminals-NM


Tighten the upper case at the end if attached.
View finder
Tapping screw 2 × 6mm
6 Lower case
5 Chassis assembly
Flat screw 2 × 6mm
Flat screw 2 × 12mm
Flat screw 2 × 12mm
Flat screw 2 × 12mm
Adapter shoe
Screw 2 × 4mm
4 Camera switch unit
CB
Tapping screw 2 × 6mm
Screw 2 × 4mm
Flat screw 2 × 10mm
Microphone unit
Screw 2 × 4mm
VB
VA
VV
Tapping screw 2.6 × 14mm
To NM
ZL
2×4mm
MF
Tapping screw 2 × 6mm
Screw 2 × 4mm
Screw 2 × 4mm
To VA
To VV
3 VCR switch unit
(Take off 3 and 4 at a time while paying attention to the flat cable terminals VA, VV & VB)
Tapping screw 2.6 × 14mm
MN
MF MB MP
Take off MQ, MN, and MJ after pulling out the chassis assembly a little from the lower case
2 Upper case
(Open the case while paying attention to the flat cable terminals LT, LB)
Screw 2 × 4mm
To LT
To LB
Back-up battery assembly
MJ MN MQ
ZL-WL terminal is attached firmly. Open it up forcefully with a thin slotted head screwdriver.
WL
MP
MB
MH
Screw 2 × 4mm
1 Cassette housing panel
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 5mm
Screw 2 × 5mm
Attach the upper case first on assembly
MJ
Screw 2 × 4mm
Screw 2 × 4mm
LT
LB
MQ
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 4mm
6 Camera assembly

HOW TO EXECUTE CIRCUIT BOARD SERVICE

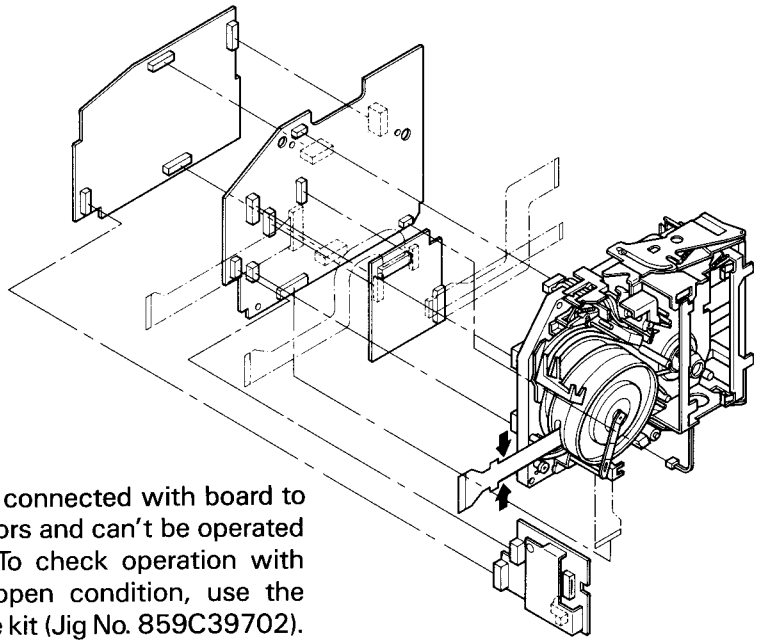
1. Chassis Assembly

Order	1	2	3	4	5
Article name	PCB SIGNAL	PCB MAIN	PCB OPE-SUB	DECK Assembly	PCB HEAD-AMP
Symbol of removed part		△			○
Screw and terminal to be removed	Terminals-SG, SK, SM, SP	Screws-3 pcs. Terminals-MA, MC, MD, ME, ML, MS	Terminals-PY, PZ		Screw-1 pc. Terminal-HD



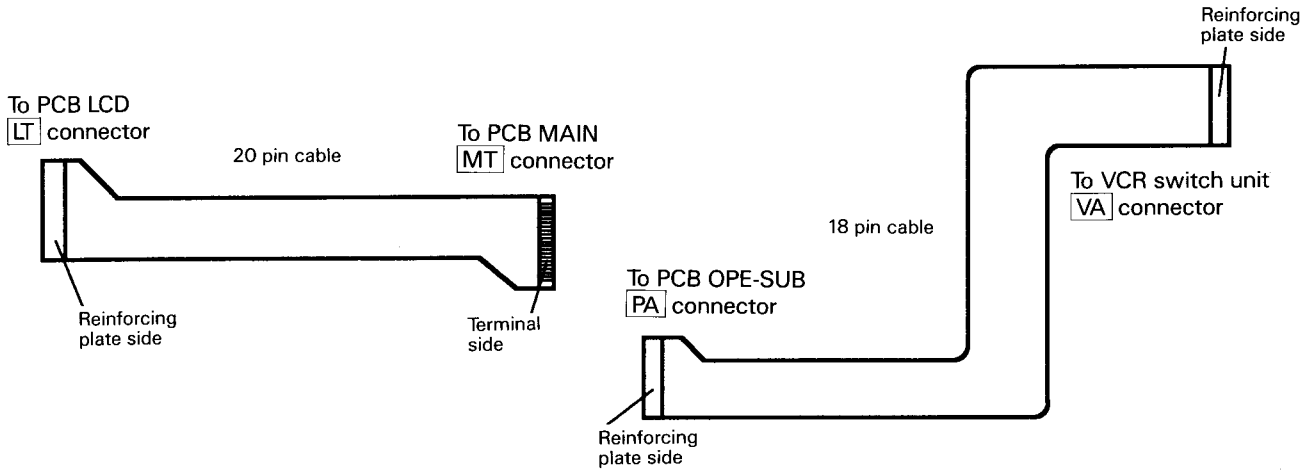
Cautionary Instructions for Chassis Assembly Replacement

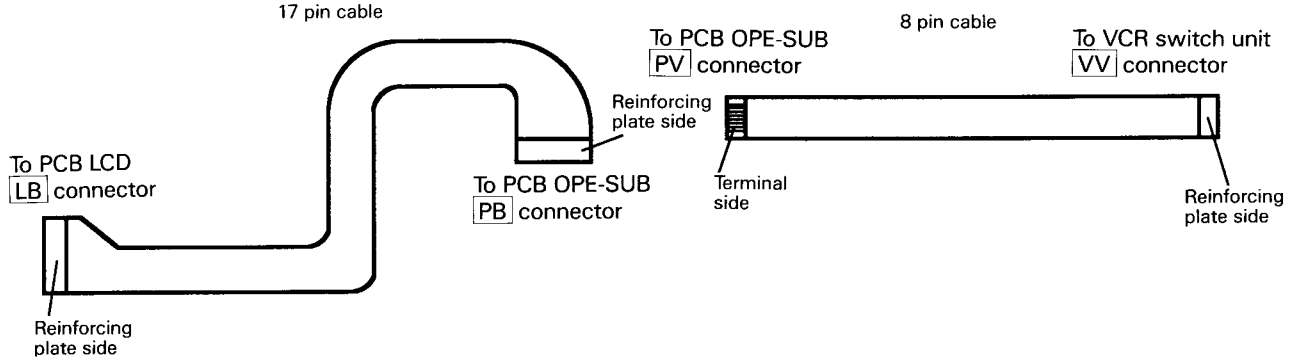
① To replace the chassis assembly disassemble the chassis assembly into individual parts according to the disassembling procedure of the casing (outer), then change the chassis.
② The PCB is connected as illustrate below. At assembly, be sure to connect to the original condition.



*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C39702).

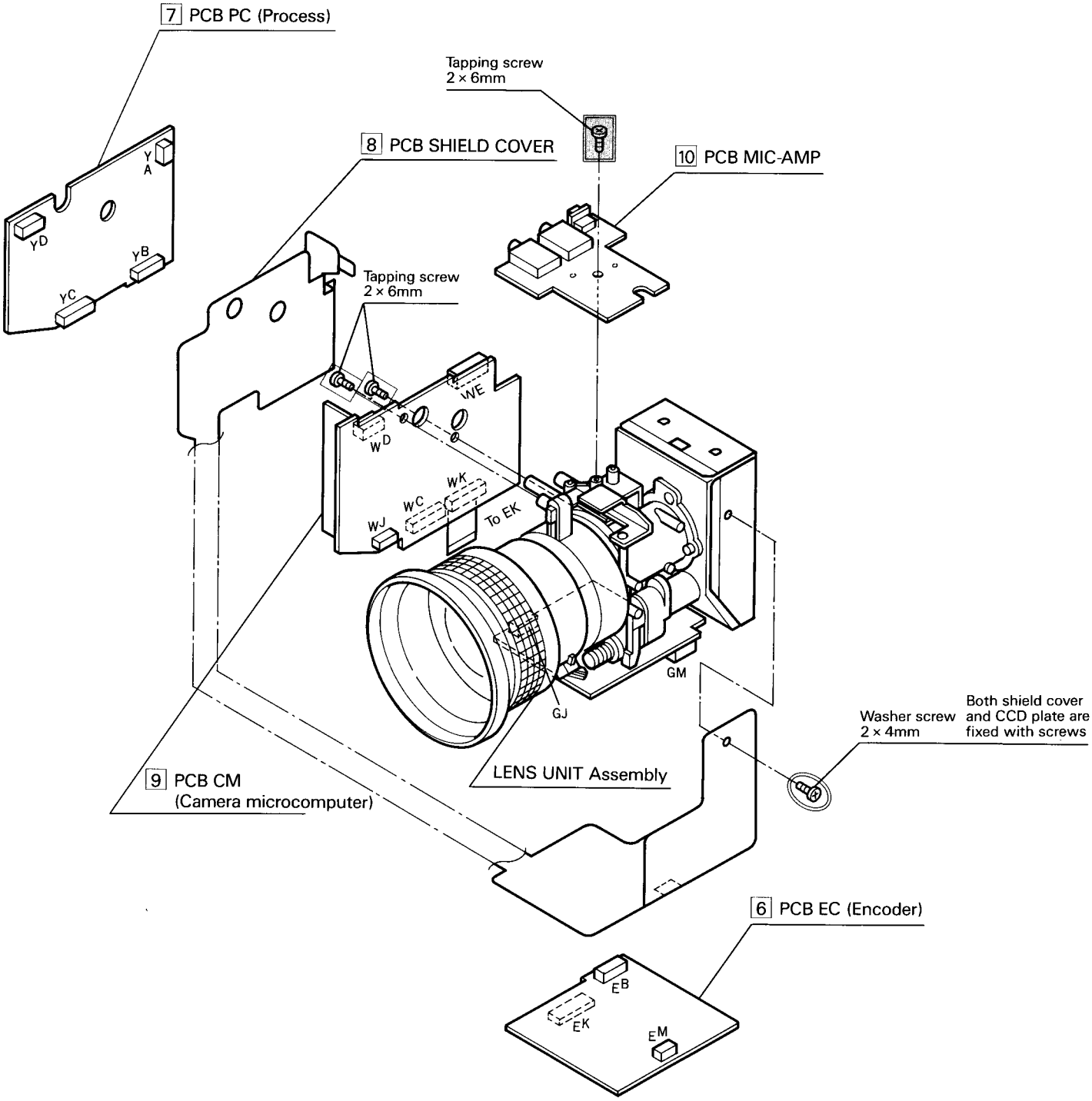
③ Connect the FPC cables as illustrated below. In connecting the cables, be sure not to mistake the direction.





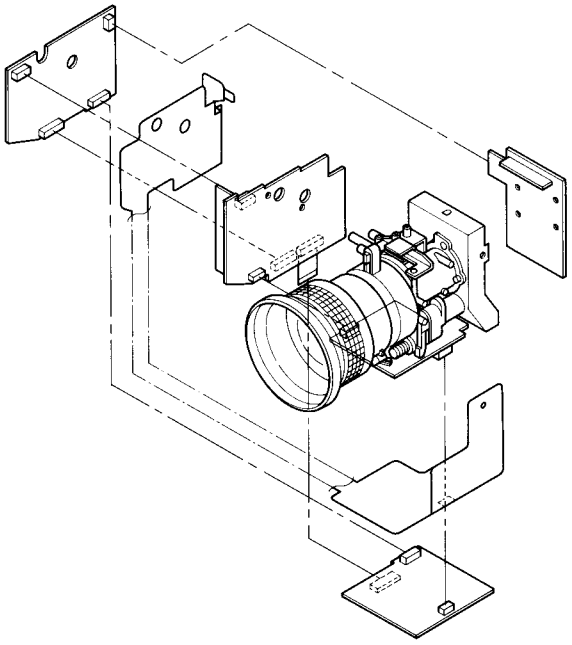
2. Camera Assembly

Order	6	7	8	9	10
Article name	PCB EC	PCB PC	PCB shield	PCB CM	PCB MIC-AMP
Symbol of removed part					
Screw and terminal to be removed	Terminals-EB, EK, EM	Terminals-YA, YB, YC, YD	Screw-1 pc.	Screws-2 pcs. Terminal-WJ	Screw-1 pc.



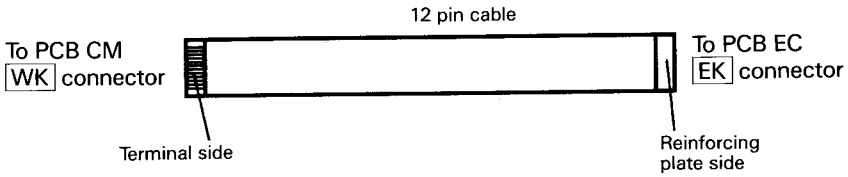
Cautionary Instructions at Camera Assembly Replacement

①When the camera assembly is replaced, disassemble the chassis assembly into individual parts according to the disassembling procedure of the case (outer), then proceed to replacement.
②The PCB are connected as illustrated below. Be sure to connect to the original condition.



*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C39702).

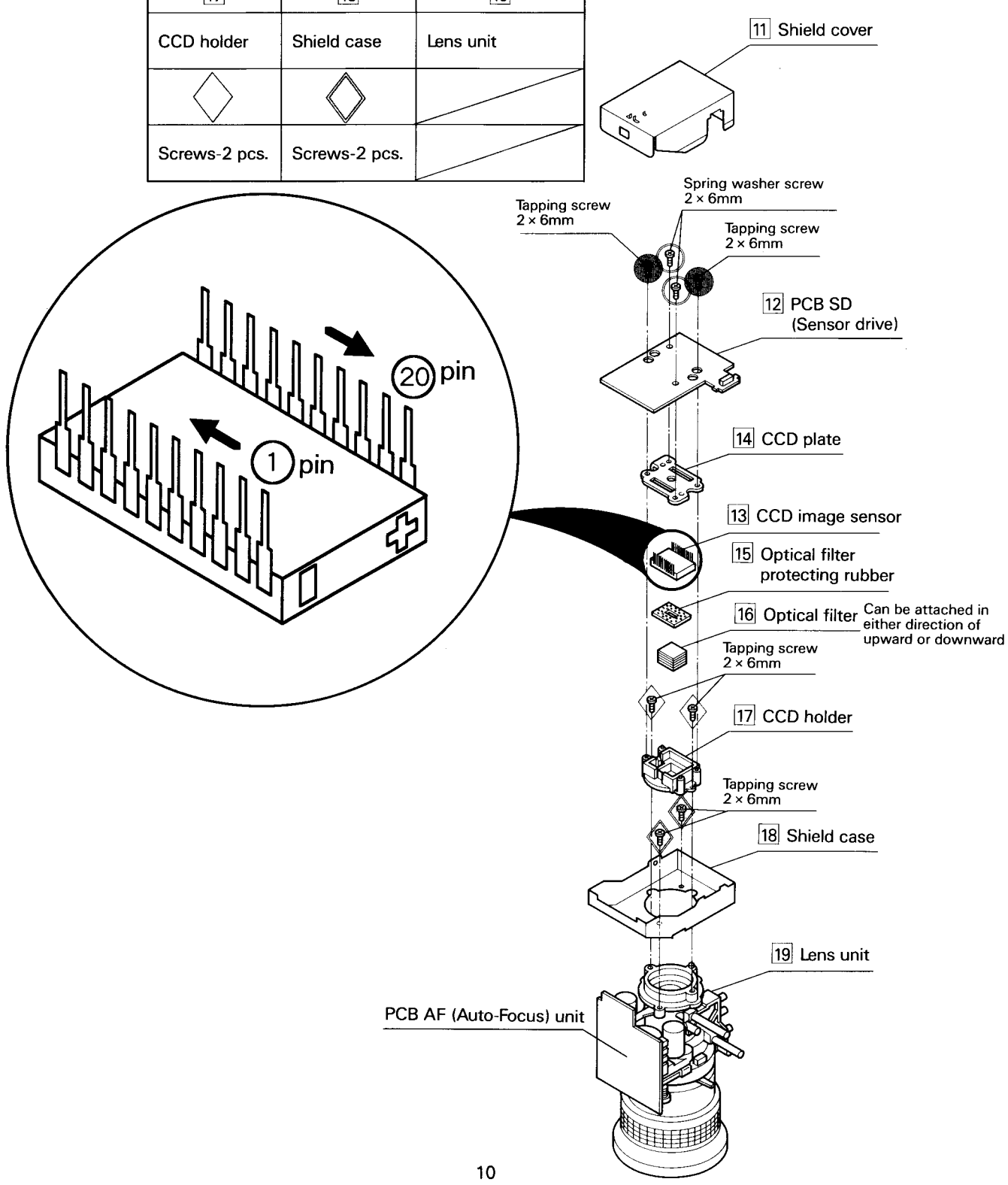
③The FPC cable is connected as illustrated below. In connecting the cable, be sure not to mistake the direction.



3. Lens Unit Assembly

Order	11	12	13	14	15	16
Article name	Shield cover	PCB SD	CCD image sensor	CCD plate	Optical filter protecting rubber	Optical filter
Symbol of removed part		●		○		
Screw and terminal to be removed		Screws-2 pcs.		Screws-2 pcs.		

17	18	19
CCD holder	Shield case	Lens unit
◇	◇	
Screws-2 pcs.	Screws-2 pcs.	



Cautionary Instructions for Lens Unit Replacement

*To replace the Lens unit, disassemble the unit into individual parts according to the disassembling procedure of camera assembly stated in Section 2 of Repairing, then proceed to replacement.

1. How to Replace CCD Image Sensor

Note: •Being a C-MOS type semi-conductor, the CCD image sensor requires close attention in particular. For replacement, be sure to earth the soldering iron and others.
•Be careful not to stain or injure the transmission glass and optical filter of the CCD image sensor. Should they be stained by finger print for instance, wipe it off with silicone paper or clean shammy.
•The transmission glass of the CCD image sensor is shipped with lens protecting seal attached. Refrain from peeling off the seal to the point immediately before assembling into the lens unit at the time of replacement.
•When the CCD image sensor is soldered onto the PCB, be careful not to apply excessive heat for a long time as the filter may be discoloured by heat in some cases.

How to Remove

① Take off the PCB SD in the order shown in the table at left.
② Remove 20 terminals of the CCD image sensor solder to the PCB SD, and take off the CCD image sensor.

How to Attach

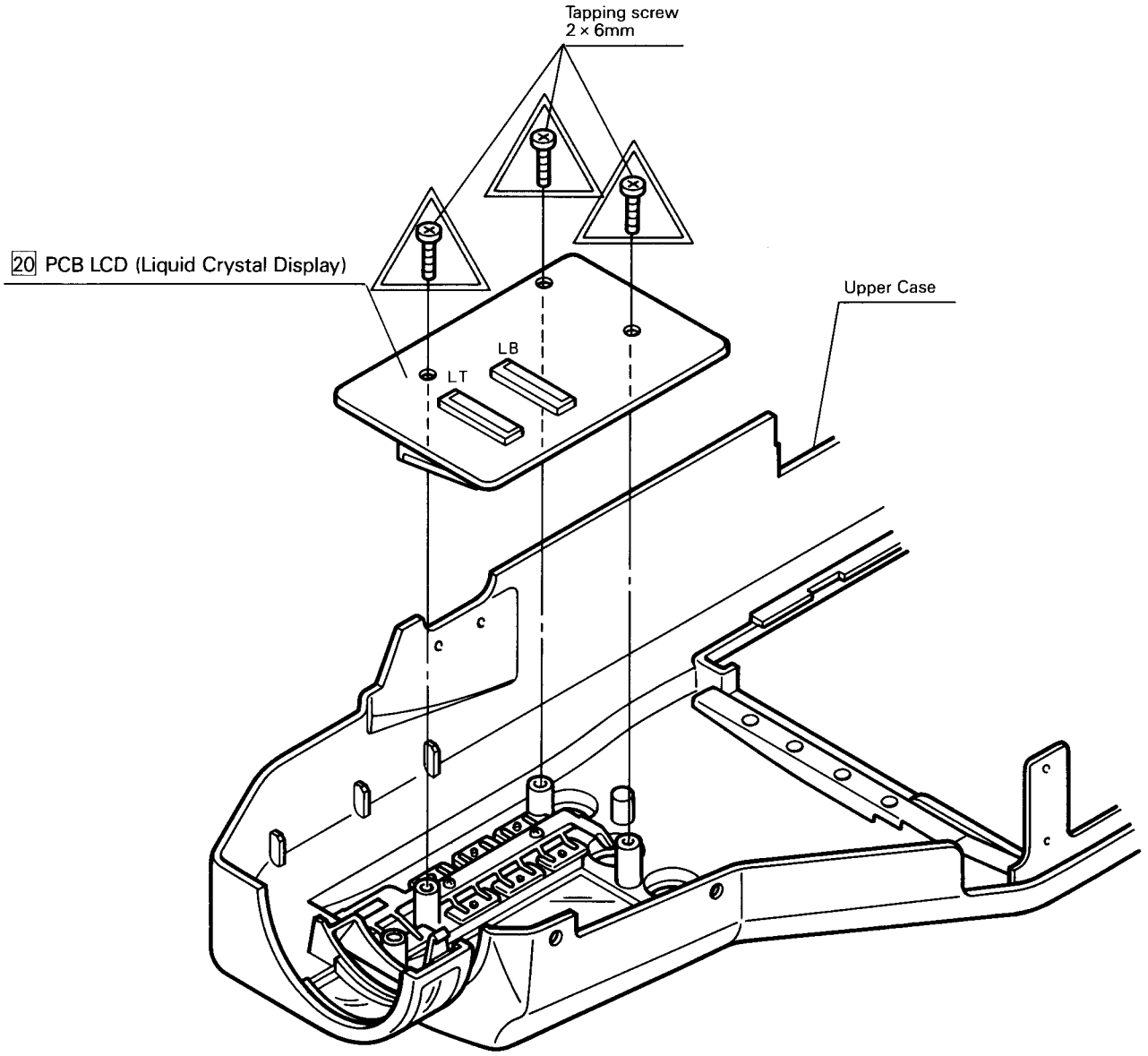
① Solder the CCD image sensor (20 soldering points) with the protecting seal onto the PCB SD. Be careful so as not to mistake direction of the PCB at this time.
② Peel off the protecting seal and mount the PCB SD onto the Lens Unit.

4. PCB LCD Assembly

Order	20
Article name	PCB LCD
Symbol of removed part	△
Screw and terminal to be removed	Screws-3 pcs.

Cautionary Instructions for PCB LCD Replacement

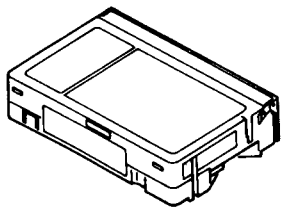
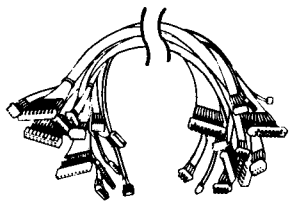
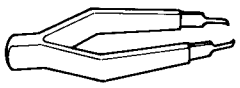
- To replace the PCB LCD, disassemble the upper case into individual parts according to the disassembling procedure of the case (outer), then proceed to disassembling.



VCR UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Adjustment of VCR

1-1. Jigs for Adjustment

Alignment tape	Extension cable kit	Pincers for mini-connectors
	859C39702	859C39503
		

1-2. Specifications of Alignment Tape

	Video signal	Audio signal	Detail of use
PM6KE2C (859C39706)	Stair step	6kHz	• Compatibility checking and adjustment • Checking drum servo circuit • Audio head azimuth adjustment (Note) Used under short-circuit condition between test point TP5B and GND.
PC1KC (859C39707)	Colour bar	1kHz	• Adjustment of video signal playback circuit • Adjustment of audio signal playback circuit (Note) Under manual condition of digital tracking • Used at the maximum level of FM output of TP2A (P.B. FM OUT) of the PCB SIGNAL.
PC (S) (859C39708)	Colour bar		• Adjustment of playback demodulation sensitivity & playback level

1-3. Others Tools and Measuring Instruments Required

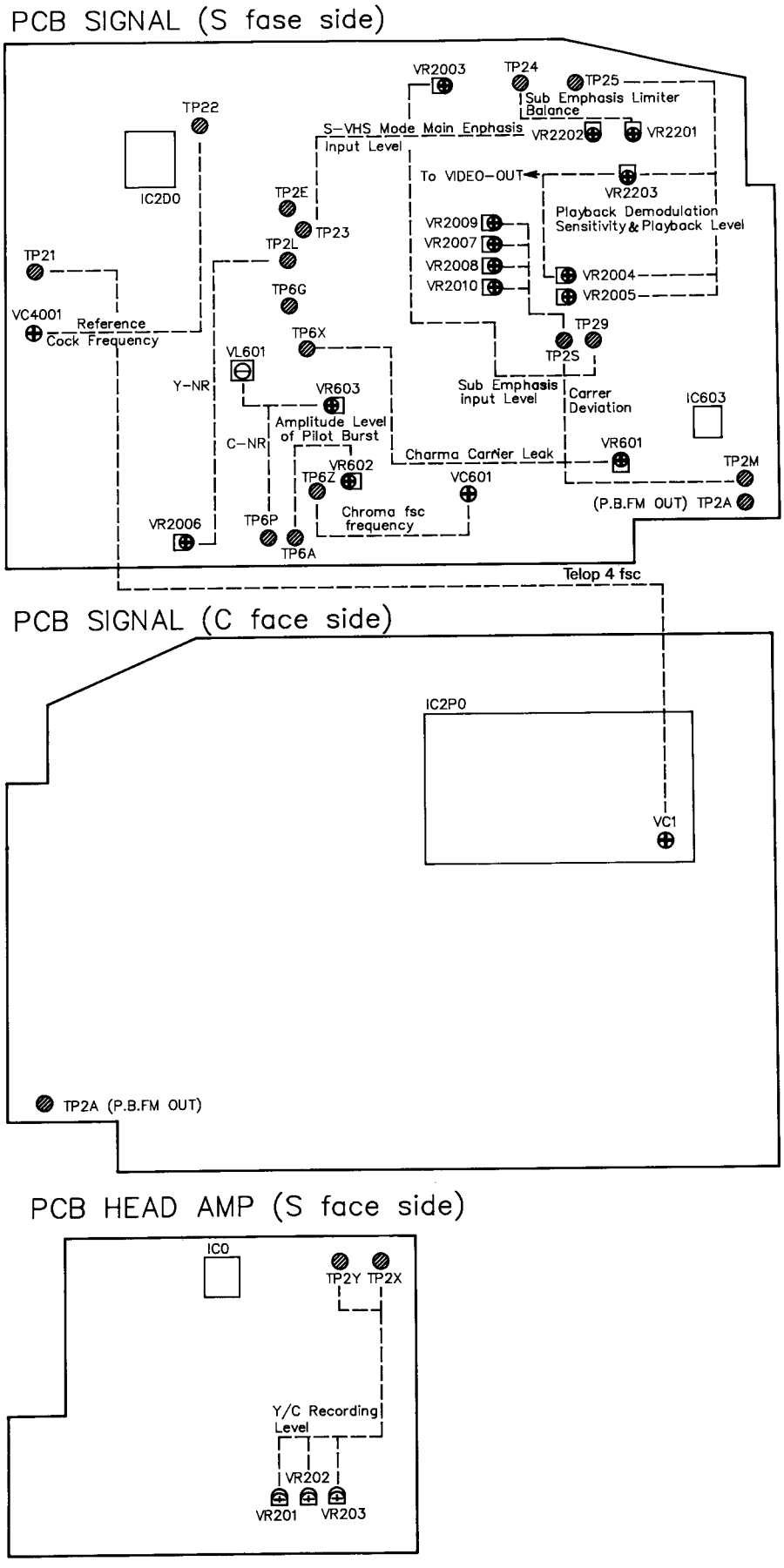
① Colour monitor (Colour TV)
② Oscilloscope
③ Colour bar generator
④ Frequency counter
⑤ Full set of general tools
⑥ Audio generator
⑦ D.C. Voltmeter
⑧ Carrier checker
⑨ Screwdriver for camera adjustment
⑩ Camera dummy connector (859C397090)

2. Prior to Adjustment

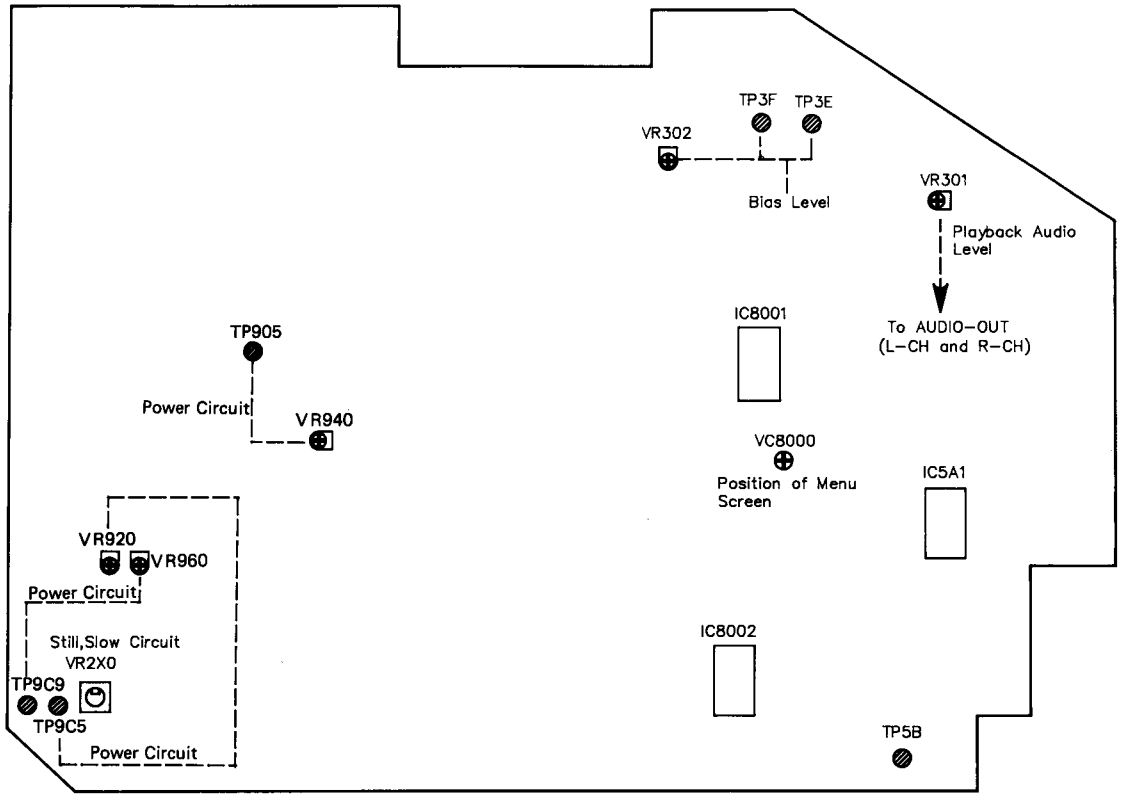
① Adjustment of VCR circuit becomes necessary, in almost all cases, at replacement of parts or the video head. Should the electrical circuit go out of order, the defective point is first found by measuring instruments, then repair and replacement are practiced before proceeding to adjustment.
Refrain from making adjustments indiscretely without detecting the point of trouble.
There are some items which require no adjustment according to trouble. In actual servicing, adjust only the items required.

② In case of VCR section adjustment, supply RF signal into C40 from a video cassette recorder equipped with S out terminal (HS-E70/B70 etc.) via Camera Dummy Connector.

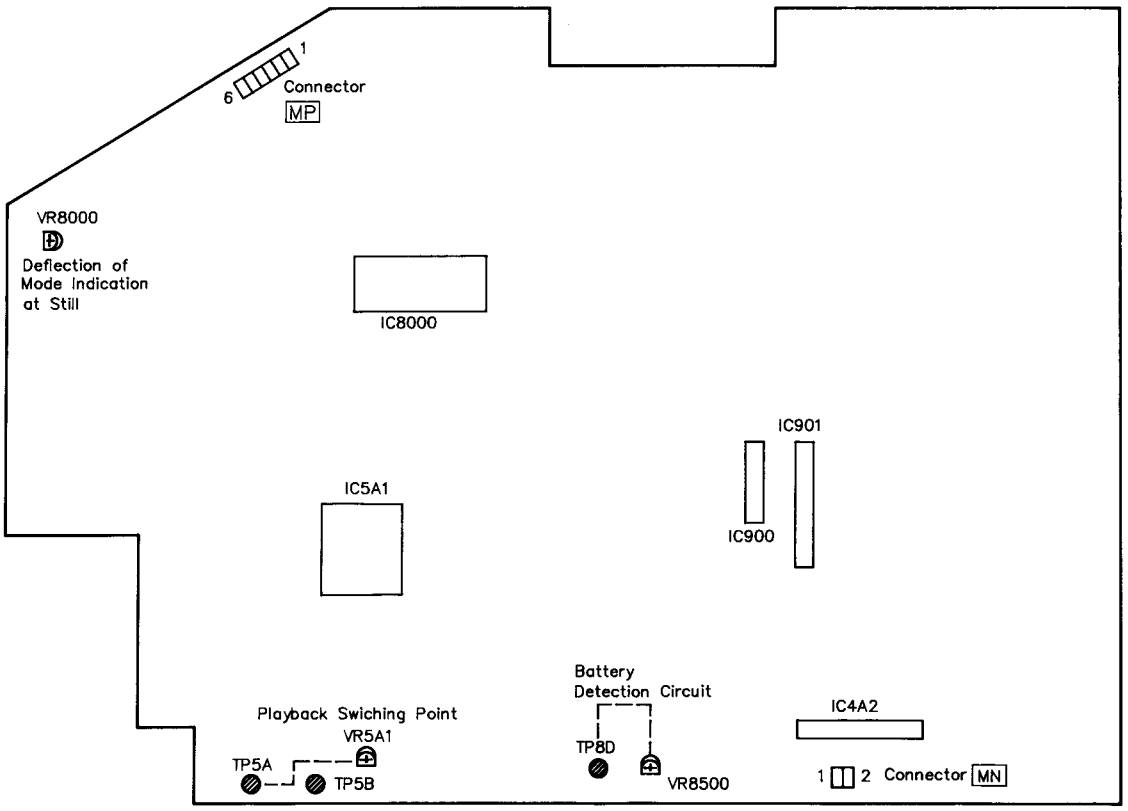
3. Location of Adjustment Points (VCR Section)

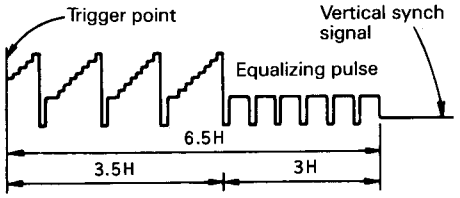


PCB MAIN (S face side)

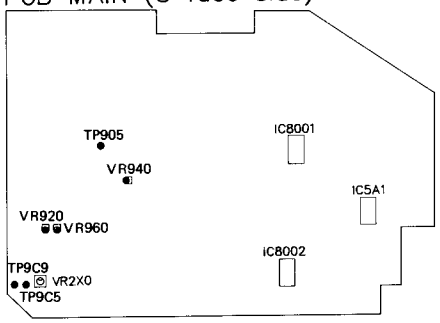


PCB MAIN (C face side)

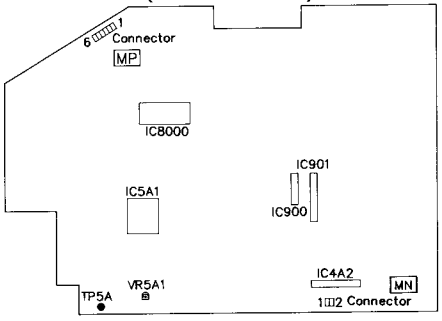


Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Power Circuit				
Power circuit	EE	Digital voltmeter	TP9C5 TP905 TP9C9	Adjust VR920 to 5.00±0.02V. Adjust VR940 to 5.00±0.05V. Adjust VR960 to 9.00±0.02V.
Servo Ciruit				
Playback switching point	Playback alignment tape Stair step	Oscilloscope Synchronizing slope (-) Synchronizing slope (+) DIV 0.2V TIM 50μsec.	VIDEO-OUT	External synchronizing with TP5A Adjust VR5A1 to 6.5H±1.0H. It is checked that image output is 6.5H±1.0H. 
Still, slow circuit	SP REC and PB mode still			Adjust VR2X0 (still adjust VR) so that the horizontal line is interlaced.
Y/C Signal Ciruit				
Chroma fsc frequency	Playback alignment tape (Colour bar)	Frequency counter	TP6Z	Adjust VC601 so that frequency becomes 13.300857MHz±90Hz.

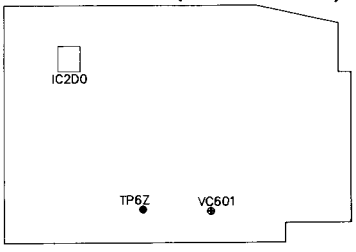
PCB MAIN (S face side)

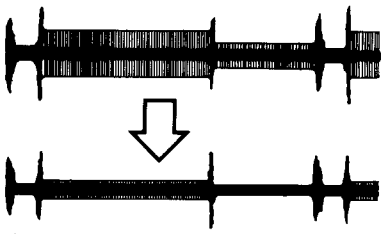
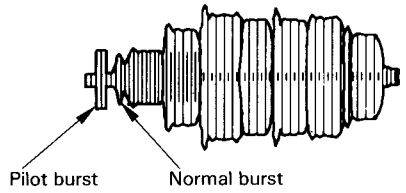
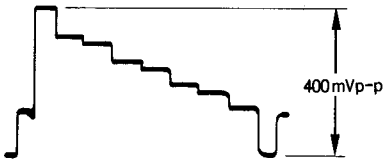


PCB MAIN (C face side)

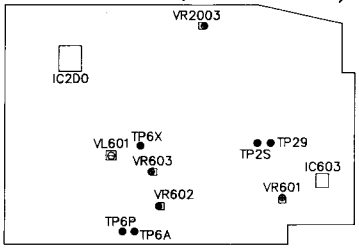


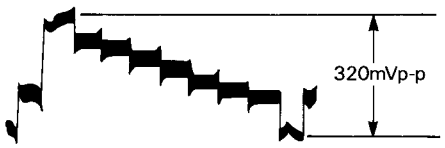
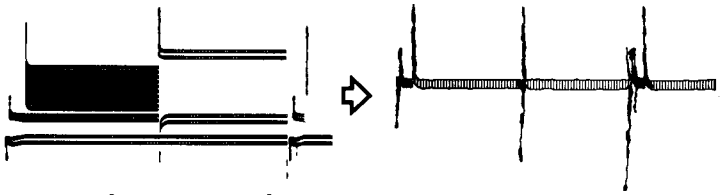
PCB SIGNAL (S fase side)



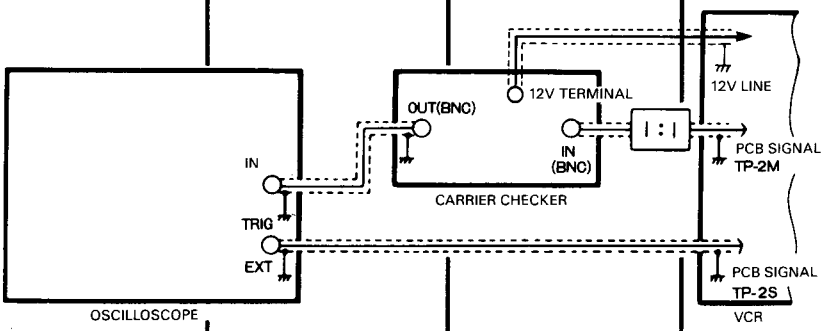
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Chroma carrier leak	Playback alignment tape (Colour bar)	Oscilloscope DIV 10mV TIM 10μsec	TP6X	Adjust VR601 to minimum carrier leak component. 
C-NR	Playback alignment tape (Colour bar)	Oscilloscope DIV 10mV TIM 2msec	TP6P	Adjust VR603 and VL601 to minimum leak signal. 
Amplitude level of pilot burst	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope * GND the probe to TP6G DIV 5mV TIM 10μsec	TP6A	External synchronizing by TP2S. After making sure that pilot burst is applied under S-VHS mode, adjust VR602 so that amplitude of pilot burst becomes 1.1 times of burst signal. 
Sub emphasis input level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope DIV 10mV TIM 10μsec	TP29	Adjust VR2003 to 400mVp-p. 

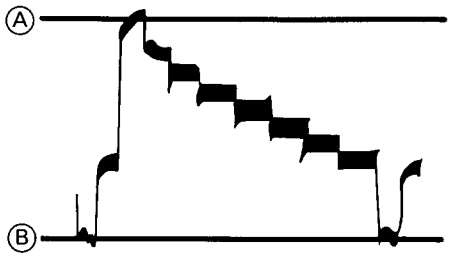
PCB SIGNAL (S fase side)



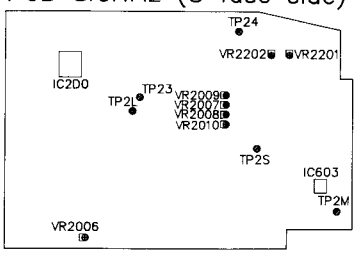
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Sub emphasis limiter balance	EE No input of VIDEO signal S-VHS mode	DC voltmeter	TP24	Adjust VR2201 to 3.48±0.03V.
S-VHS mode main emphasis input level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope DIV 10mV TIM 10μsec	TP23	Adjust VR2202 to 320mVp-p. 
Y-NR	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR Normal VHS mode	Oscilloscope DIV 20mV TIM 2msec	TP2L	Adjust VR2006 so that video signal disappears. 
Carrier deviation	SP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode Normal VHS mode	Oscilloscope DIV 0.2V TIM 10μsec	TP2M	External synchronizing withTP2S. Connect carrier checker to TP2M. Adjust VR2009 (FM. DEV. SET) and VR2010 (FM. CAR. SET) respectively so that frequency of Sync-tip and that of peak white respectively become 5.4MHz and 7.0MHz. Adjust VR2007 (FM. DEV. SET) and VR2008 (FM. CAR. SET) alternatively so that frequency of Sync-tip and of peak white respectively become 3.8MHz and 4.8MHz.

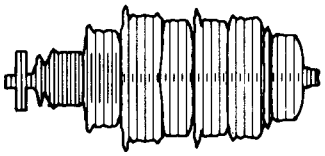
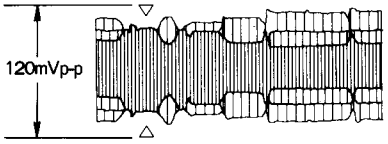
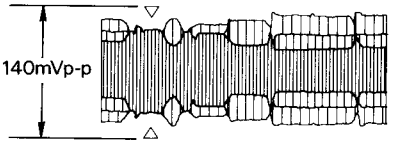
	S-VHS mode	VHS mode
Deviation line Ⓐ	7.0MHz	4.4MHz
Sync-tip line Ⓑ	5.4MHz	3.4MHz



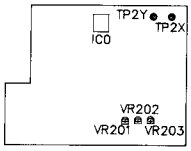


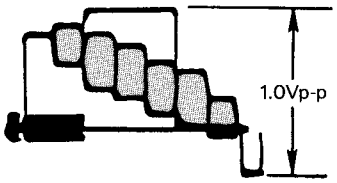
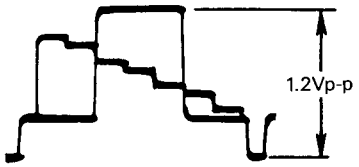
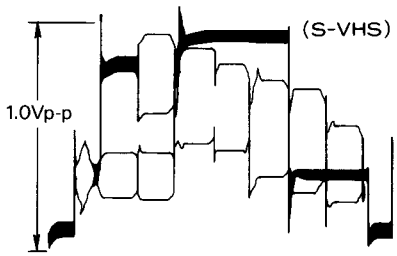
PCB SIGNAL (S fase side)



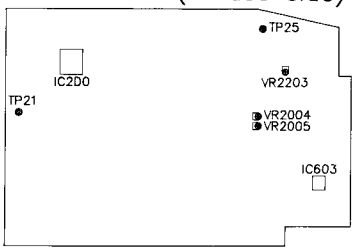
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Y/C recording level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope * GND the oscilloscope to TP2X. DIV 10mV TIM 10μsec	TP2Y	Minimize FM recording signal by turning VR201 to the left. Adjust VR203 so that chroma recording level becomes 30mVp-p at the red part. 
		DIV 50mV TIM 10μsec		Adjust VR201 turning to the right so that FM recording signal become 120 mVp-p at the Sync-tip. 
	Normal VHS mode			Adjust VR202 so that FM recording signal becomes 140mVp-p at the SYNC TIP .  (Note) As the adjusting point, take the point where recording signal at VR201 and VR202 adjustment reach the specified level while gradually increasing from 0mVp-p.

PCB HEAD AMP (S face side)

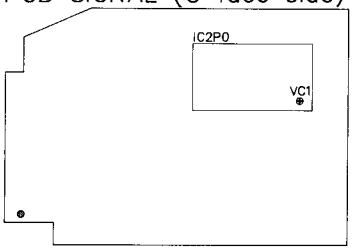


Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Playback demodulation sensitivity & playback level	Playback normal VHS alignment tape (Colour bar)	Oscilloscope DIV 20mV TIM 10μsec	VIDEO-OUT terminal (75 ohm termination)	Adjust VR2004 to 1.0Vp-p. 
	Playback S-VHS alignment tape (Colour bar)		TP25	Adjust VR2005 so that demodulation signal becomes 1.2Vp-p. 
			VIDEO- OUT terminal (75 ohm termination)	Adjust VR2203 to 1.0Vp-p. 
Telop 4fsc	VIDEO signal no input	Frequency counter	TP21	Adjust VC1 on IC2P0 so that frequency becomes 17.73448MHz±100Hz.

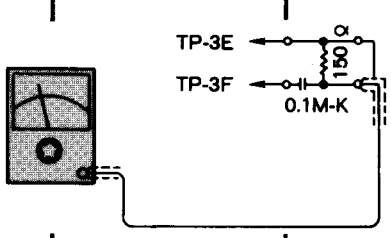
PCB SIGNAL (S fase side)

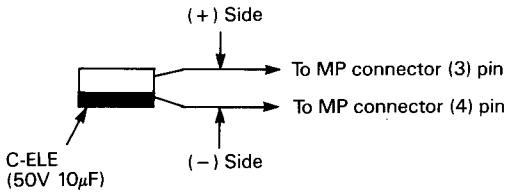


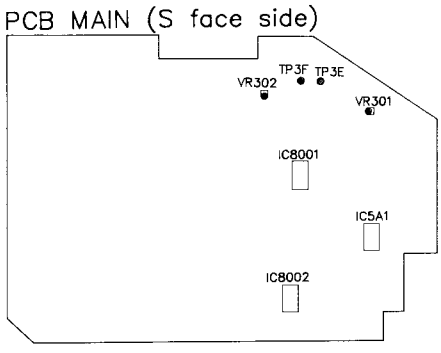
PCB SIGNAL (C face side)



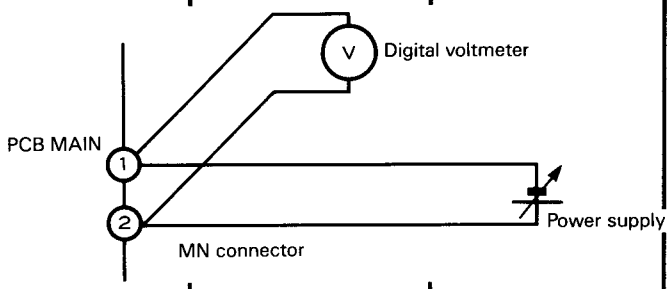
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Normal Audio Circuit				
Playback Audio level	Playback alignment tape (Colour bar)	AC voltmeter	AUDIO-OUT terminals, (L-CH and R- CH)	Adjust VR301 so that playback level is kept at -6dBs. ((380mVr.m.s.) 0dB=0.755Vr.m.s.) (Note) Check mechanical adjustment if deviationis over 1dB.
Bias level	SP REC mode	AC voltmeter Add probe (High pass filter)	TP3E TP3F	short between (3) pin and (4) pin of MP connector on the PCB MAIN using an electrolytic capacitor (50V 10μ) and using (3) pin as positive (+) side. After making sure that indicated value on the AC voltmeter isn't affected by the monitor TV, adjust VR302 to 2.4mVr.m.s. (Note) Be careful so that the AC voltmeter may not come in contact with VCR chassis. (Note) Refrain from turning to playback mode with the AC voltmeter connected. (Excessive input is applied to the playback amplifier.)

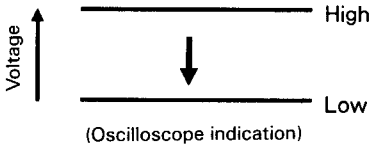




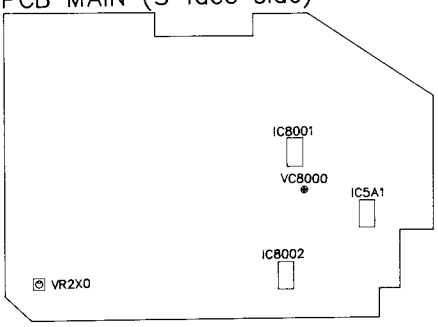


Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Operation Circuit				
Position of menu screen	Menu display button: ON			While watching view finder, adjust VC8000 so that menuscreen comes to the center.
Battery detection circuit		Oscilloscope DIV 0.2mV TIM DC	TP8D	Connect variable constantvoltage power supply (over 3A) to MN connector on the main board. (Pin (1) at GND and pin (2) at plus side). Set the power supply at 8.8±0.05V. Turn VR8500 fully to the left end. Adjust VR8500 to the oscillation condition immediately before changing from high level to low level.
Jittering of mode indication at still	SP REC and PB mode			While watching view finder, turn to still mode and perform still adjustment by VR2X0(still adjust VR). Also adjust VR8000 (VR800) to eliminate jittering of the letters.

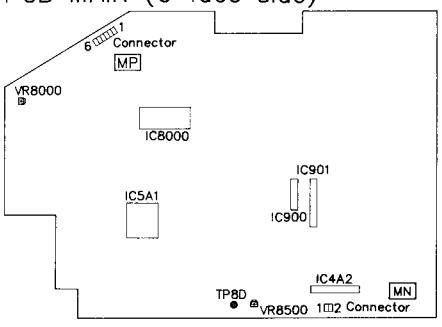


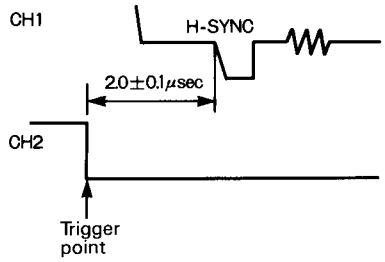


PCB MAIN (S face side)

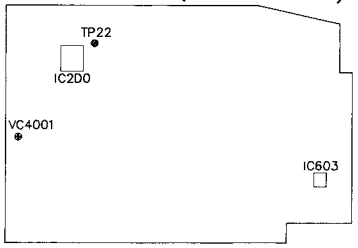


PCB MAIN (C face side)



Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Title (Superimpose)				
* Proceed to this adjustment after checking circuits of the signal system.				
Reference clock frequency	EE telop indication	Oscilloscope Video signal generator or Y/C separator	CH1:VIDEO-OUT CH2:TP22	External synchronizing with TP22 Mount camera ass'y onto chassis ass'y. Adjust VC4001 so that waveform of CH1 and CH2 are adjusted to 2.0±0.1μsec. 

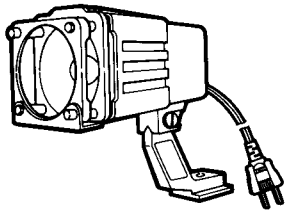
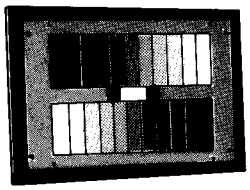
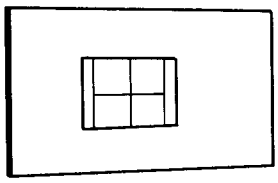
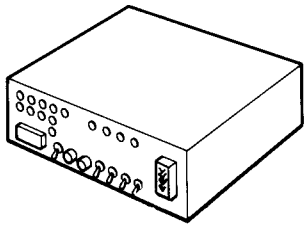
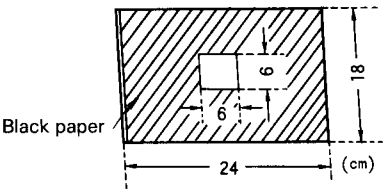
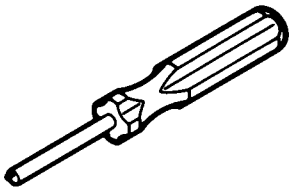
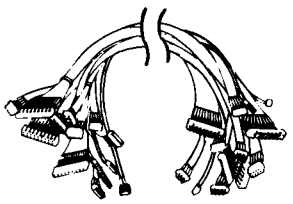
PCB SIGNAL (S fase side)



CAMERA UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Camera Unit Adjustment

1-1. Jigs for Adjustment

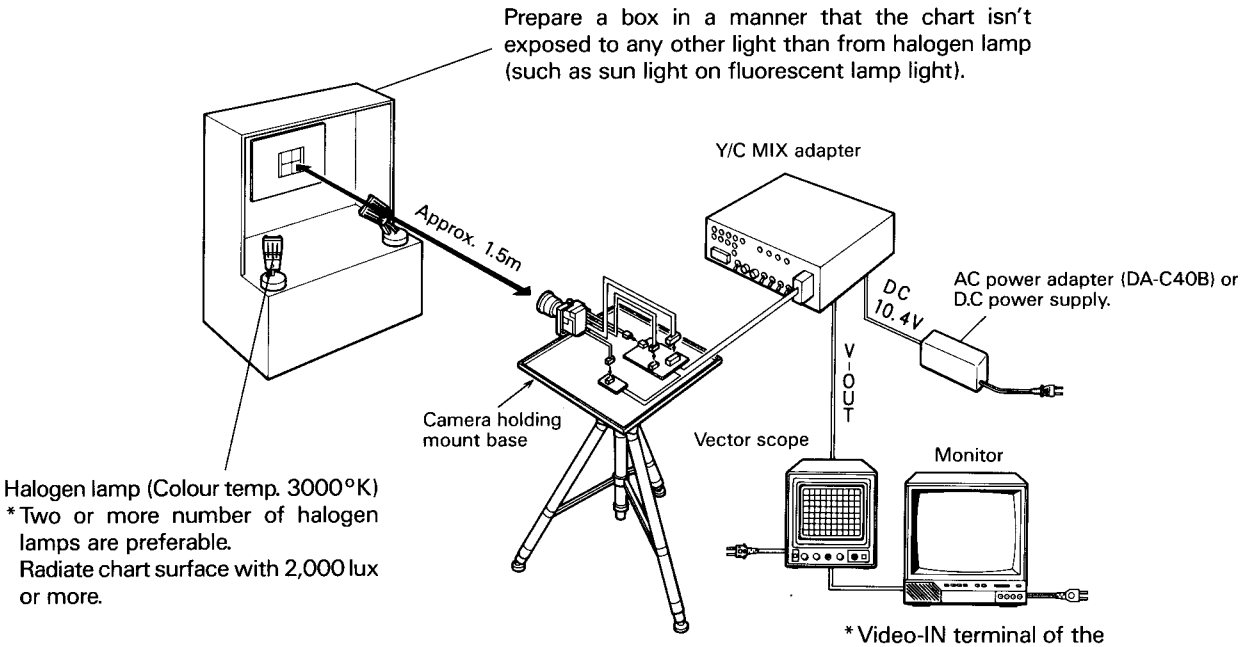
<table>
<tr><td>Halogen light (3000 ± 50°K)</td><td>Grey scale chart (GS-2A)
859C36101 ○Reflection type</td><td>Colour chart
859C39704 ○ Reflection type</td></tr>
<tr><td>  </td><td>  </td><td>  </td></tr>
<tr><td>Colour temperature conversion filter (49mm)</td><td>Y/C MIX adapter
859C39705</td><td>Window chart (Please prepare)</td></tr>
<tr><td> 
C2..... 859C36108
C8..... 859C36200 (2 sheets are required)
C12 ... 859C36107</td><td>  </td><td> 
Make a hole of 6 × 6 (cm) at the center of corrugated cardboard, and attach a sheet of black paper of low reflection to the whole surface.</td></tr>
<tr><td>Dark conversion filter (49mm)</td><td>Back focus adjustment screwdriver (u)
859C39700</td><td>Extension cable kit
859C39702</td></tr>
<tr><td> 
ND2 .. 859C36204</td><td>  </td><td>  </td></tr>
</table>

1-2. Other Measuring Instruments Required

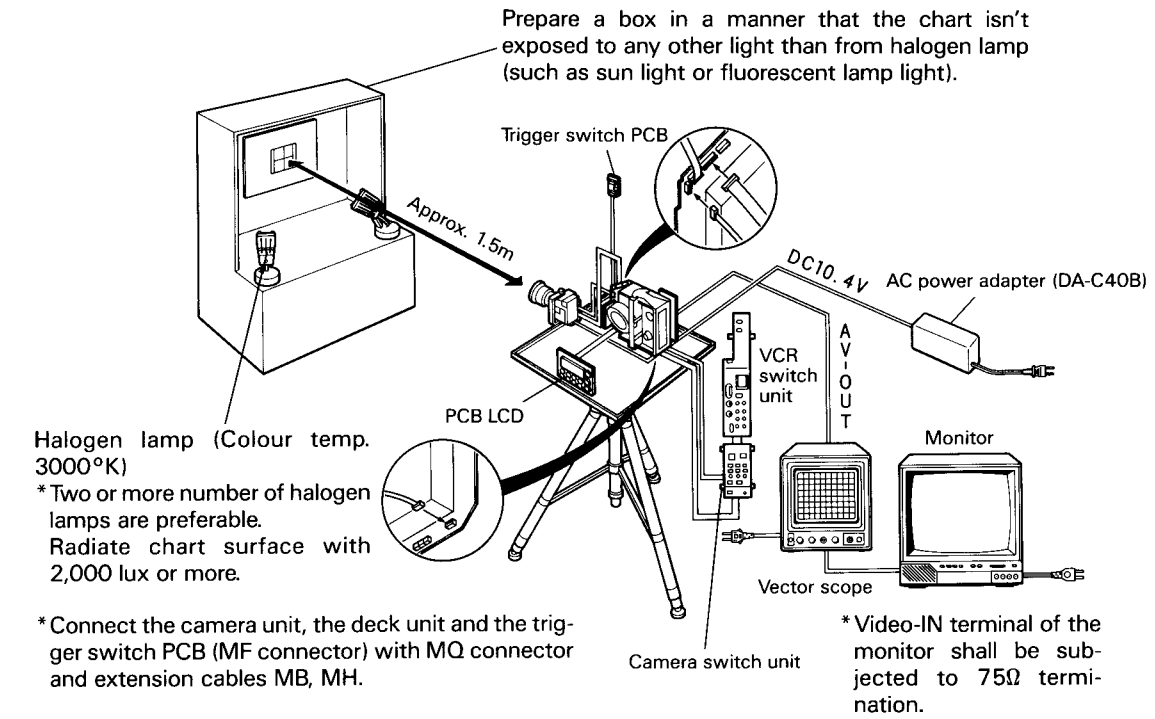
- ○ Oscilloscope
- ○ Vector scope
- ○ Colour monitor (Colour TV)
- ○ Illuminance meter
- ○ Digital voltmeter

2. Standard Connection of Camera Unit at Adjustment

2-1. When Y/C MIX Adapter is Used



2-2. When No Y/C MIX Adapter is Used



3. Preparation before Adjustment and Check Items

3-1. Prior to Adjustment

In almost all cases, it becomes necessary to adjust the electrical circuit when any electrical part is replaced.
At any trouble of the electrical circuit, be sure to detect the point of trouble using measuring instruments, perform repair or replacement, then proceed to adjustment.
Refrain from making any adjustment, indiscretely without locating the point of trouble.
There are some items which do not requires adjustment depending on kind of trouble. In actual servicing, adjust the required items only.

3-2. Preparation and Check Items

1. Unless otherwise indicated in particular, set the camera unit at the following mode at the time of adjustment.

Shutter	Standard (1/50 sec.)
Focus	Manual (Just in focus)
Iris (ALC Switching)	Manual (Click position) * Set at AUTO when Y/C MIX adapter is used
White balance	 3,000°K

2. As the illumination devices for the chart, be sure to use the type of 3,000°K colour temperature, and set the device so that illuminance of about 2,000 lux is kept on the chart face. Uneven illuminance on the chart face inversely affects adjustment. Install the illumination device so that the chart face is illuminated evenly. (Light source of two or more lamps is preferable.)
3. Adjustment related to white balance is affected by the light falling onto the white balance sensor. Be sure to attach the diffusion plate (take off the lower case and attach with adhesive tape) to the front side of the white balance sensor. Also be careful so that any other light than those from the halogen lamp, sun light or fluorescent lamp light for example, is not allowed into the sensor.
4. Unless otherwise specified, use oscilloscope of 10:1 probe and PCB EC TP-2JC (Y-OUT) as the external trigger.
5. For adjusting the camera unit, refrain from using any extension cable (opening the PCB) as far as possible.

3-3. Camera Unit Adjusting Procedure

The following adjustment procedure is in the order required for adjusting all the potentiometers of the camera unit. Some items, therefore, need not be adjusted depending on kind of repair. Perform adjustment of the required items only according to kind of servicing.

Optical Focus Adjustment

1. Back focus adjustment
2. Horizontal & zoom tracking adjustment

Electrical Adjustment

Sensor drive
1. Adjustment of 25MHz

Y/C system
2. Sub-straight voltage adjustment

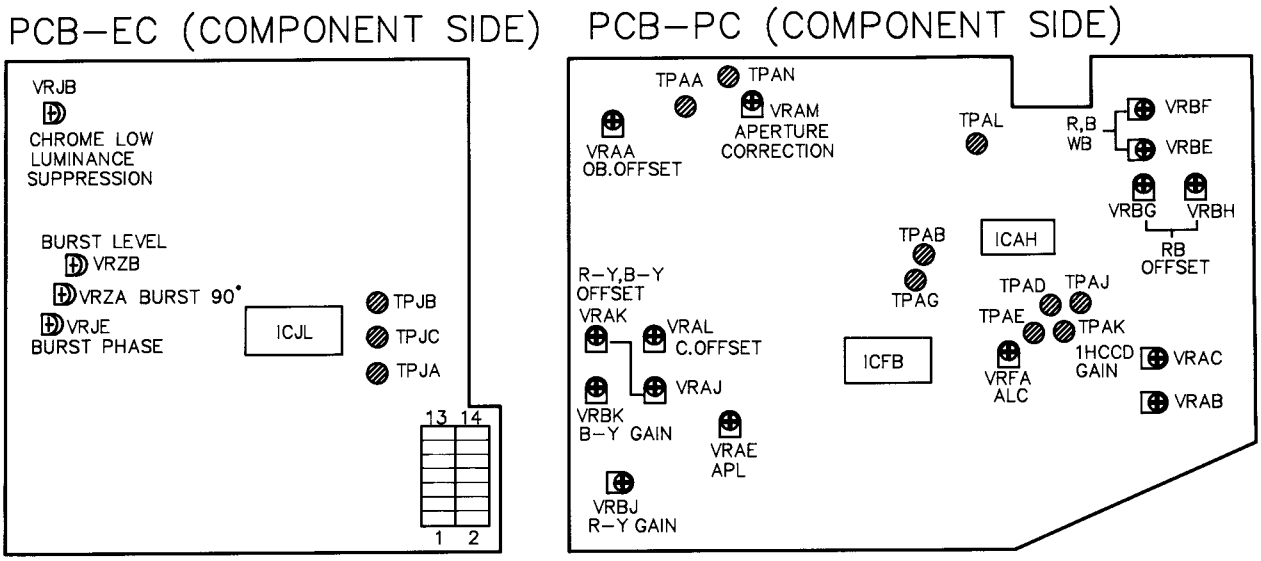
Y system
3. OB offset adjustment
4. ALC (Iris) adjustment
5. APC adjustment
6. 1H CCD gain adjustment
7. AP (Aperture) correction adjustment

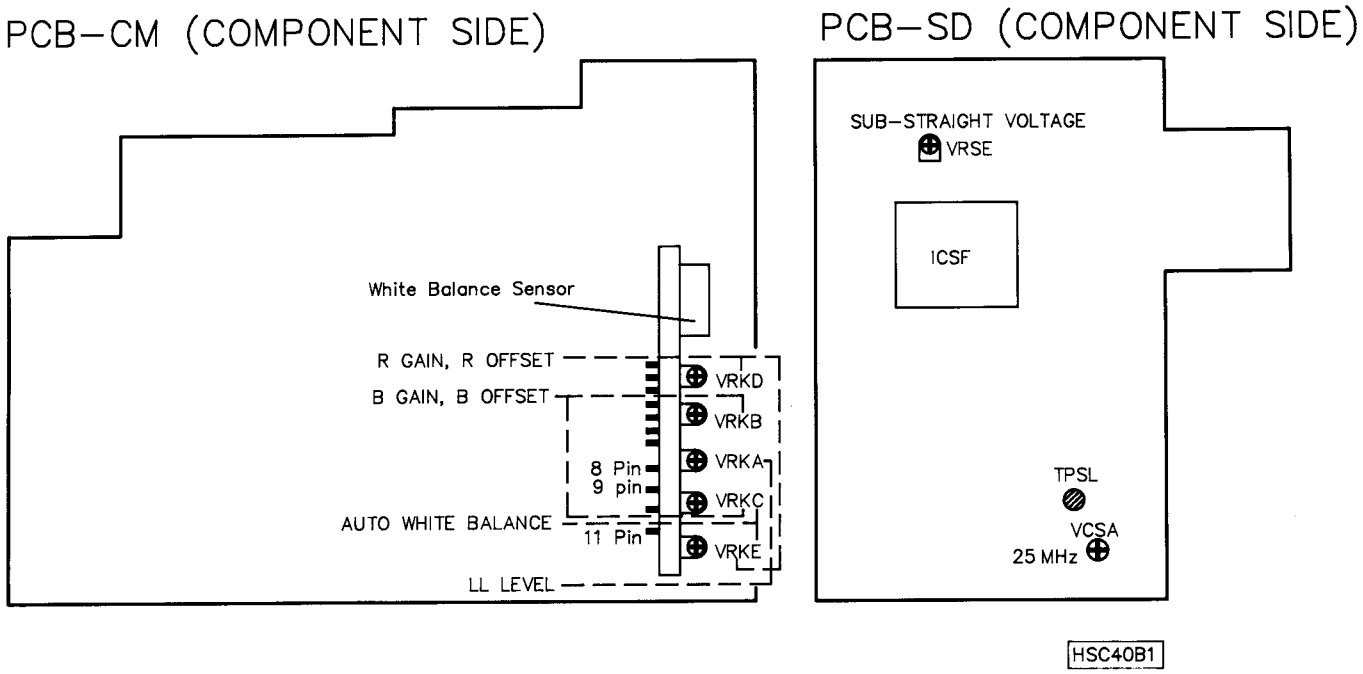
C system
8. R-Y, B-Y offset adjustment
9. C (Carrier) offset adjustment
10. Chroma low luminance suppress adjustment
11. R, B offset adjustment
12. R, B WB adjustment

Auto WB system
13. LL level adjustment
14. R gain, R offset adjustment
15. B gain, B offset adjustment
16. Auto white balance check & adjustment

C system
17. Burst level adjustment
18. B-Y gain adjustment
19. R-Y gain adjustment
20. Check and adjustment of chroma angle and gain

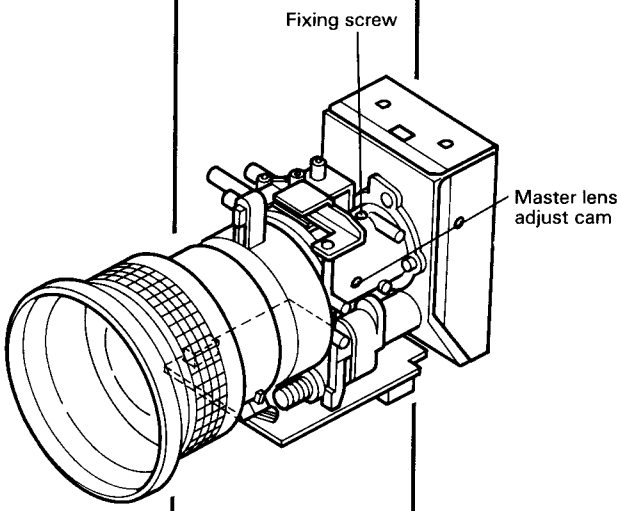
4. Location of Adjustment Points (Camera Section)

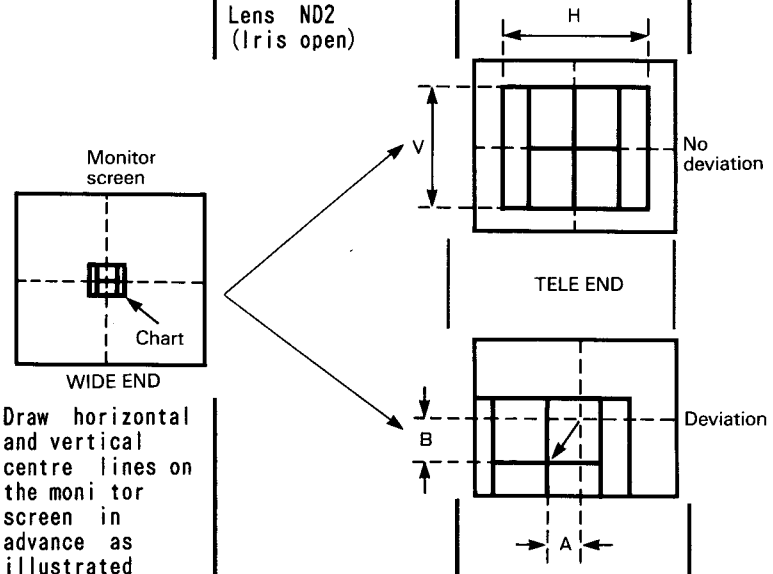
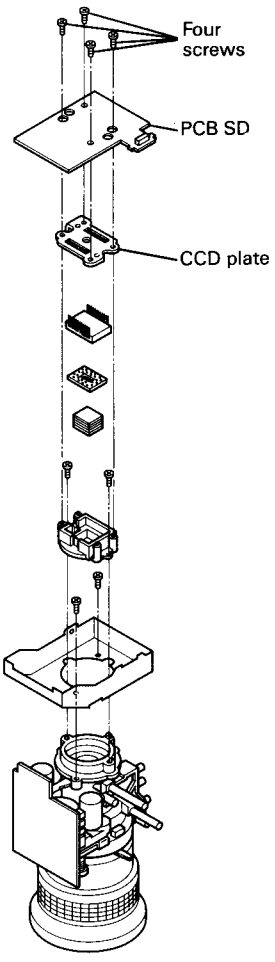




OPTICAL FOCUS ADJUSTMENT

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Back focus	Lens ND2 (Iris open)	Back focus adjusting screwdriver		(1) Shoot an object at a sufficient distance (a object such as a calendar at a distance of more than 10m and of which focus can be checked.) (2) Keep zoom at TELE end and fit the focus ring of the lens manually. (Judge the focus while seeing the monitor screen.) (3) Check the image by driving zoom to WIDE end. (4) If out of focus, loosen the fixing screw and adjust the master lens adjust cam with the back focus adjusting screwdriver to sharp focus. (5) Tighten the fixing screw. (6) Drive zoom from WIDE end to TELE end and check if the object is in focus. (7) At TELE end, adjust the focus ring again manually, then drive zoom to WIDE as it is, and make sure that the object is in focus in both case. (8) Lock the fixing screw.

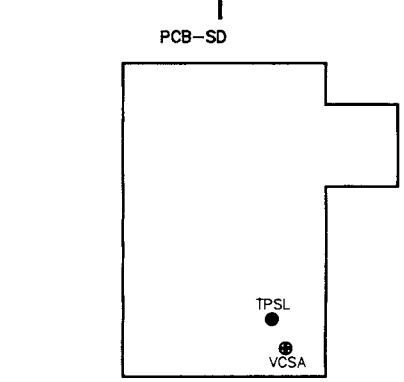


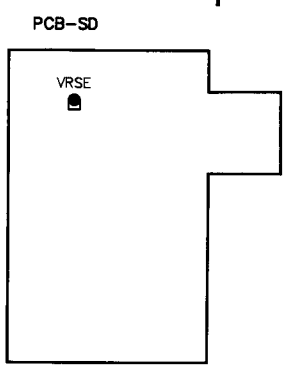
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Horizontality and zoom tracking (Optical axis)	colour chart * Check and adjust horizontality of the tripod attached to the camera with a level vial. Lens ND2 (Iris open)	 $\frac{A}{H} \times 100 \leqq 25\%$ $\frac{B}{V} \times 100 \leqq 35\%$		(1) At WIDE end, fit the chart centre to the monitor centre. (2) Make sure that the horizontal line of the colour bar chart is parallel to that of the monitor. (Angle difference shall be 4.5 max.) (3) Drive zoom from WIDE to TELE end, and make sure that off set of the chart centre is not more than 25% horizontally and 35% vertically on the monitor screen and that there is no skipping of image in the middle of zooming. (4) If the specifications can't be met, perform assembly adjustment of the CCD plate and the PCB SD, then repeat adjustment of above (1) to (3) again. * Slacken the four screws shown below, move the PCB SD with respect to CCD image sensor then tighten the four screws again. 
*Draw horizontal and vertical centre lines on the moni tor screen in advance as illustrated above.				

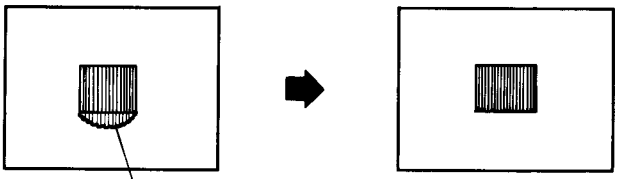
Electorical Adjustment

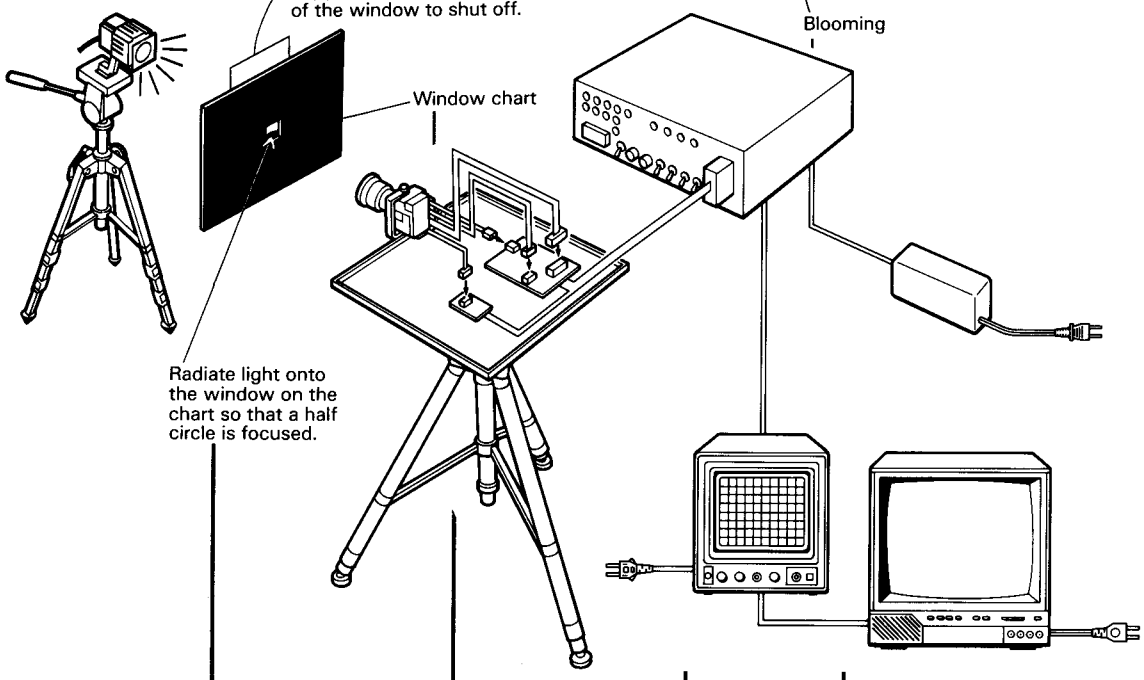
(Note) The numbers attached to each test point and adjusting point are not printed on the PCB. (Example TP2AE→TPAE (print on PCB)

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
25MHz		Frequency counter	TPOSL (PCB SD	(1) Connect the frequency counter to TPOSL (PCB SD). (2) Adjust VCOSA (PCB SD) so that frequency falls within 25.750000 MHz ± 60Hz.
Sub-straight voltage (Decrease of blooming)	Iris open *Open by iris (APL changeover) manual.			(1) Set up as illustrated below and project the whole window chart on the whole monitor screen. (2) While observing the monitor, adjust VROSE (PCB SD) to the point where blooming disappears. * Stop adjusting immediately when blooming disappears. Be careful not to over turn the VR.

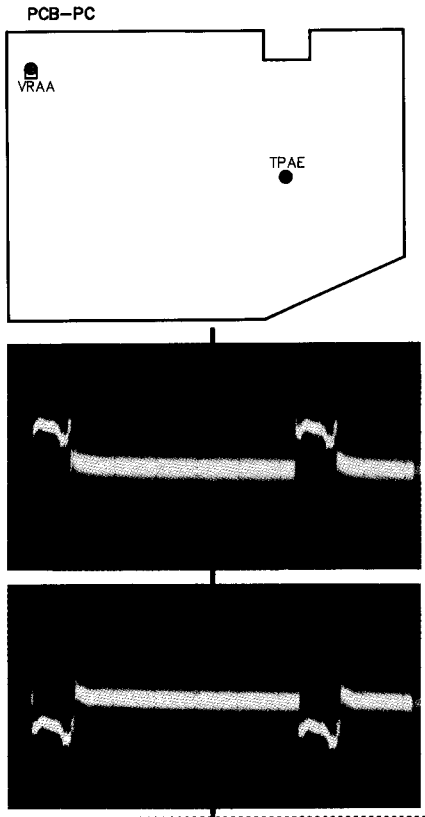


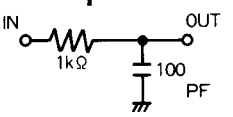


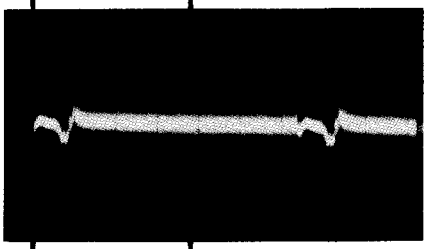


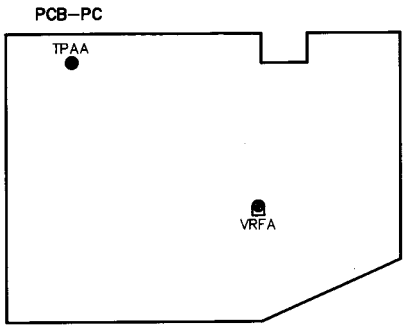


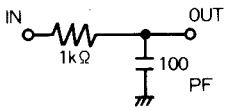
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
OB. OFFSET	Lens shut-off	Oscilloscope DIV 5mV TIM 10 μ sec.	TP2AE (PCB PC) LPF is used	(1) Cap the lens. (2) Observe TP2AE (PCB PC) with an oscilloscope through LPF jig. (3) Adjust VR2AA (PCB PC) to the minimum offset.
ALC	colour chart	Oscilloscope DIV 10mV TIM 10 μ sec.	TP2AA (PCB PC) LPF is used	(1) Make sure that iris (APL switch) is turned to AUTO. (If Y/C MIX adapter isn't used, turn ON the full auto switch on the PCB LCD.) (2) Take the colour chart at the standard picture angle. (3) Observe TP2AA (PCB PC) with an oscilloscope through LPF jig. (4) Adjust VR5FA (PCB PC) so that the level of peak white comes to 400 ± 20mVp-p. * After adjustment, apply a light shock to the camera to make sure that the adjustment isn't disturbed, and perform adjustment again if disturbed.

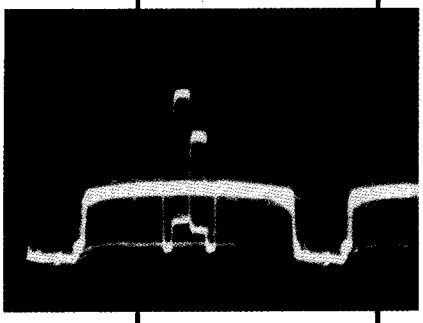




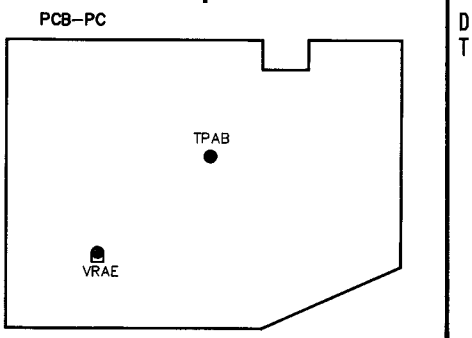


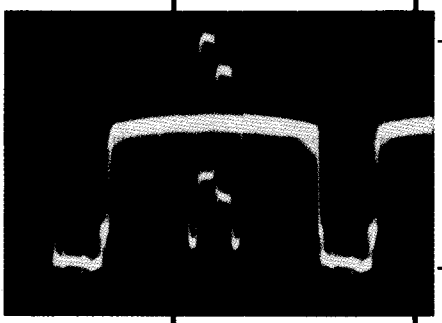


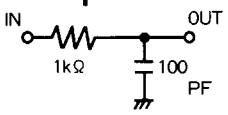


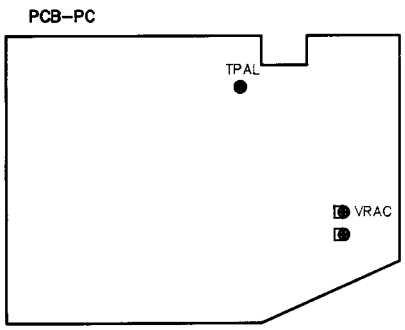


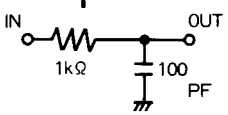
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
APL	colour chart	Oscilloscope DIV 5mV TIM 10μsec.	TP2AB (PCB PC) LPF is used	(1) Keep iris (APL switch) at auto, and take the colour chart with the standard picture angle. (2) Observe TP2AB (PC board) with an oscilloscope through LPF jig. (3) Adjust VR2AE (PC board) so that the level of peak white comes to 270±50mVp-p. * When Y/C mixing adapter isn't used, i.e. this adjustment is carried out while keeping the full auto switch on PCB LCD turned to ON, turn OFF the full auto switch after completing the adjustment to return to the initial setting mode.
1HCCD gain	colour chart	Oscilloscope DIV 5mV TIM 10μsec.	TP2AL (PCB PC) LPF is used	(1) Observe TP2AL (PCB PC) on an oscilloscope. (2) Adjust VR2AC (PCB PC) so that waveform amplitude is minimized. * Make sure that volume adjust position is near the centre. If it is at an end, perform adjustment again so that the adjust position comes near to the centre. jig.

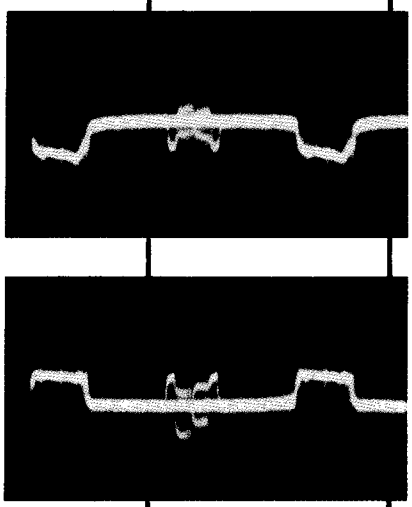


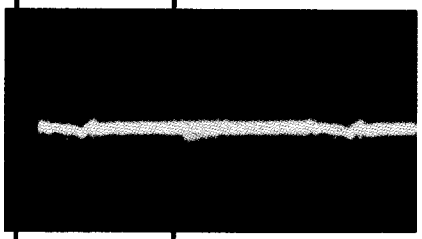




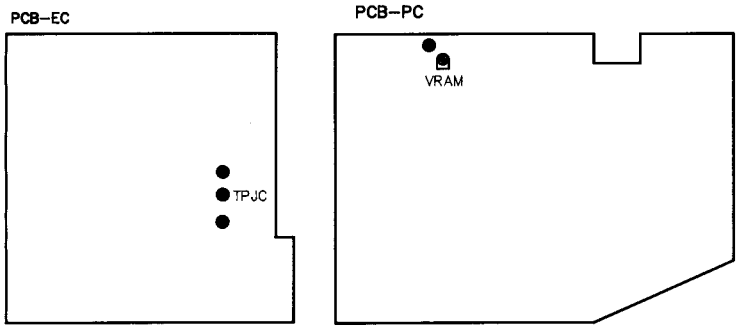


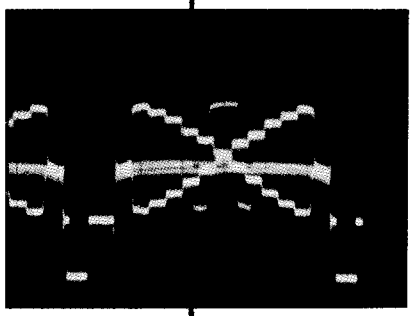




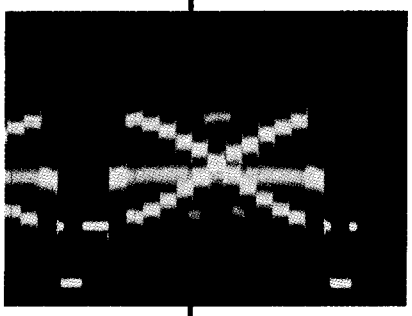


Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Aperture correction	Grey scale	Oscilloscope	TP2JC (PCB EC)	(1) Observe TP2JC (PCB EC) on an oscilloscope. (2) Adjust VR2AM (PCB PC) so that pre-shoot and a over-shoot of waveform are slightly seen and the focus becomes the optimum on the monitor screen.

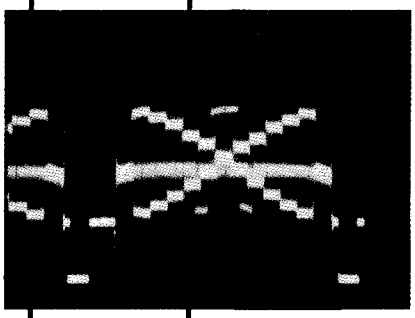




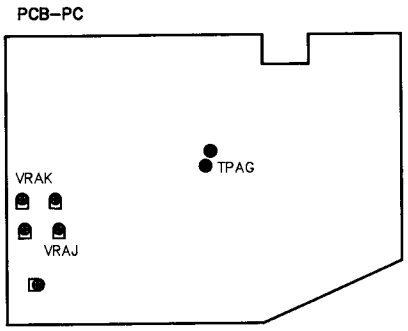
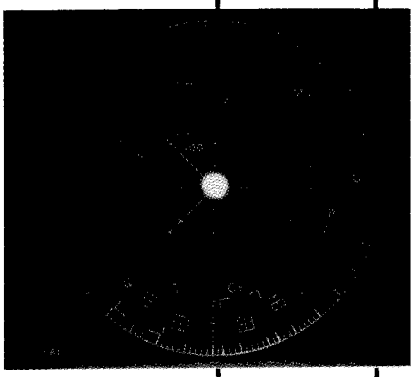
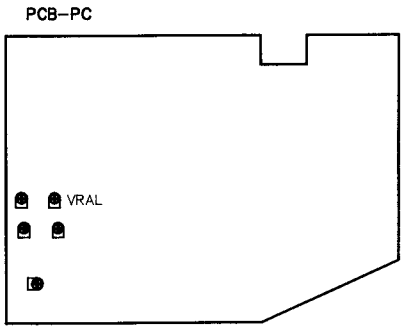
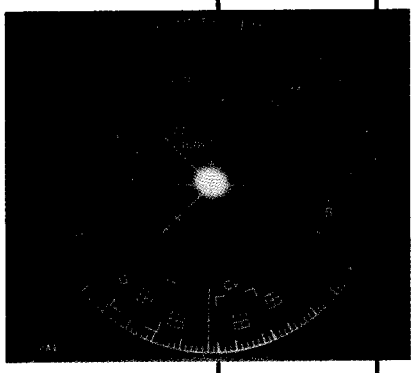
Loose focus

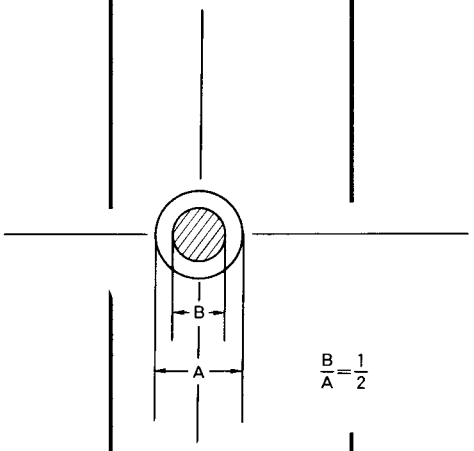
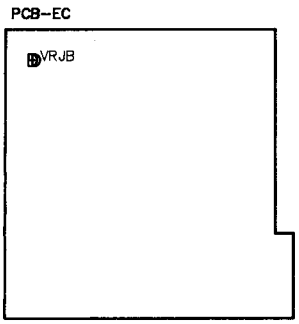
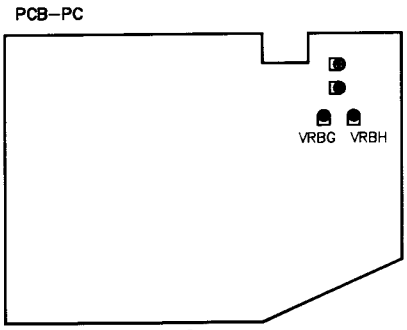


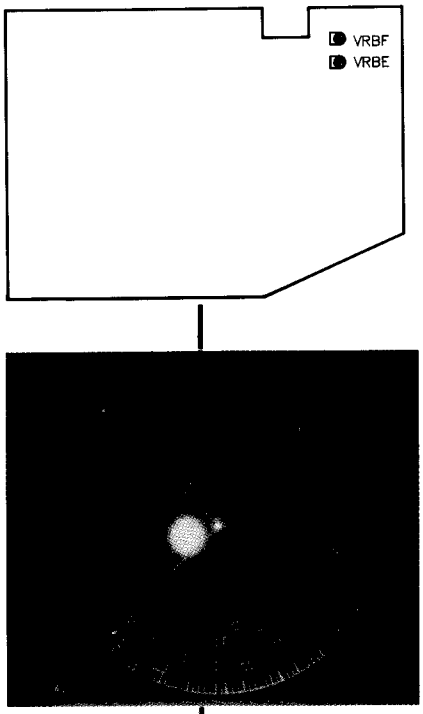
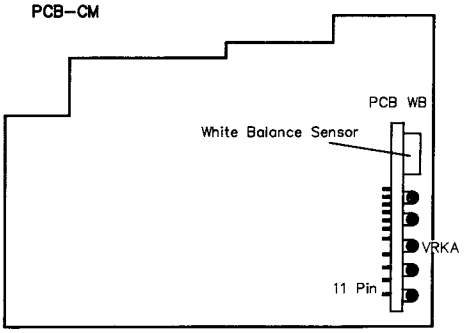
Sharp focus



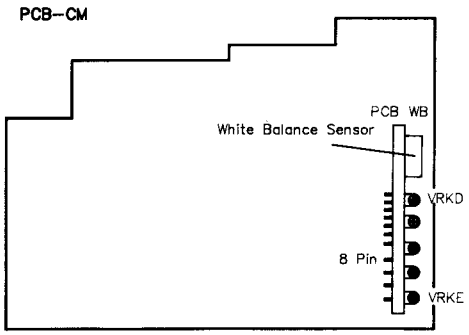
Adequate focus

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R-Y, B-Y OFFSET 	Lens shut-off	Vector scope SATURATION: 75% GAIN: MAX 	Video out (Y/C MIX adapter)	(1) Ground TP2AG (PCB PC) using 100μF capacitor. (2) Observe with the vector scope at the maximum sensitivity. (3) Adjust VR2AK (PCB PC) and VR2AJ (PCB PC) so that the bright point comes to the centre.
C, OFFSET 	Lens shut-off	Vector scope 	Video out (Y/C MIX adapter)	(1) Take off 100 F capacitor from the above condition. (2) Adjust VR2AL (PCB PC) while observingthe vector scope so that the bright point comes closest to the centre.

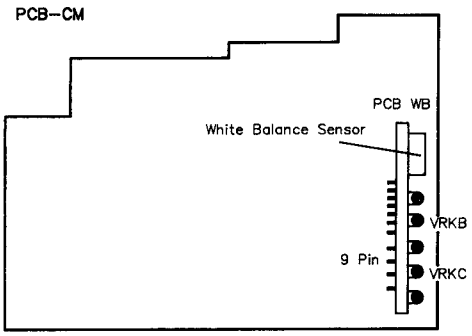
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Chroma low luminance suppression	Lens shut-off 	Vector scope SATURATION: 75% GAIN: MAX	Video out (Y/C MIX adapter) 	(1) Observe with the vector scope at the maximum sensitivity. (2) Adjust VR2JB (PCB EC) to the maximum bright point and take it as A. (3) Adjust VR2JB (PCB EC) againso that the amplitude becomes 1/2 of A.
R, B OFFSET	White chart * Use a sheet of white paper of high reflection.  	Vector scope SATURATION: 75% GAIN: MAX	Video out (Y/C MIX adapter)	(1) Make sure that white balance setting of Y/C MIX adapter is at IN1 (incandescent lamp) mode. (2) Take the white chart onto the full screen. (3) Observe with the vector scope at the maximum sensitivity. (4) Adjust VR2BG and VR2BH (PCB PC) so that the bright point comes to the centre.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R, B WB PCB-PC  	White chart White balance "OUT" (☀) Lens←C2+C12	Vector scope SATURATION: 75% GAIN: Adjust for easy checking	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C mixing adapter at OUT (daylight) mode. (2) Take white chart on the whole screen through C2+C12. (3) Observe with the vector scope at the appropriate sensitivity. (4) Adjust VR2BE and VR2BF (PCB PC) so that the bright point comes to lower left of the centre as illustrated below. (5) Take the filter off the lens. (6) Return white balance setting to IN1 (incandescent lamp) mode.
LL level PCB-CM  	Shut off the white balance sensor * Stick a black tape, etc.	Oscilloscope DIV 0.1V/DC	IC7WB (11) pin (PCB WB on PCB CM)	(1) Connect the oscilloscope to IC7WB (PCB WB) (11) pin. (2) Adjust VR7KA (PCB WB) slowly and fix it at the moment when indication on oscilloscope changes from "L") (lower than 1V) to sensor "H" (Over 4V). (3) Open the tape a little and make sure that indication on the oscilloscope changes to "L".

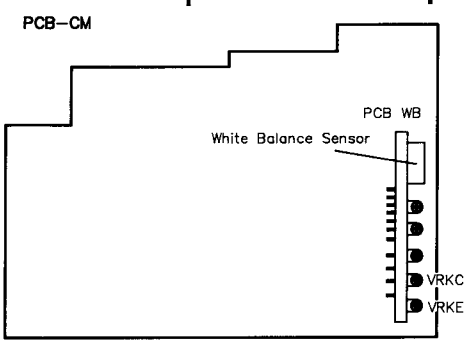
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R gain, R offset	Attach the diffusing plate (taken off the lower case) to the white balance sensor, and illuminate to 5,000±1,000 lux. * Face the halogen lamp toward the sensor so that the light falls directly onto the sensor. (Approx. 1m) * Note that decorated part of the lens may be affected by heat if the lamp is placed too close. Sensor←C16	Digital voltmeter	IC7WB (8) pin (PCB WB on PCB CM)	(1) Radiate the white balance sensor with 5,000±1,000 lux, 3,000±50° K. (2) Connect the digital voltmeter to IC7WB(8) pin. (3) Adjust VR7KD (PCB WB) so that indication of the digital voltmeter differs by 1,000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. (4) Then adjust VR7KE (PCB WB) so that reading of the digital voltmeter becomes 2.200±0.02V when C16 filter isn't installed. (5) Make sure that reading of the digital voltmeter is 3.120±0.02V when C16 filter is installed again. If reading differs, repeat the above adjustments (3) (4) and (5).



Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B gain, B offset	Adjust to the same mode as R gain, R offset. Sensor←Diffusing plate , C16	Digital voltmeter	IC7WB (9) pin (PCB WB on PCB CM)	(1) Radiate the white balance sensor with 5,000±1,000 lux, 3,000 ±50° K. (2) Connect the digital voltmeter to IC7WB(9) pin. (3) Adjust VR7KB (PCB WB) so that indication on the digital voltmeter differs 1,000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. (4) Then adjust VR7KC (PCB WB) so that reading on the digital voltmeter is 2.100±0.02V when C16 filter isn't installed. (5) Make sure that reading on the digital voltmeter is 3.220± 0.02V when C16 filter is installed. If not, repeat the above adjustments (3) (4) and (5).



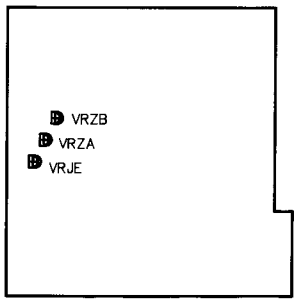
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Auto white balance	White chart (from the middle) Lens C8 Sensor←Diffusing plate C8	Vector scope SATURATION: 75% GAIN: MAX Oscilloscope DIV 10mV TIM 10 sec.	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C MIX adapter at AUTO. (2) Take white chart on the whole screen. (3) Observe with the vector scope at the maximum sensitivity. (4) Make sure that the bright point is at the centre. If the point is off-positioned, adjust VR7KC and VR7KE (PCB WB) so that the bright point comes to the centre. * It may happen in some cases that motion of the bright point is slow and the point is hard to move to the centre. Repeat adjusting VR7KC and VR7KE alternatively until the point comes to the centre. (5) Attach C8 filter before the lens and the sensor respectively. * Practically, the filter can't be attached to the sensor. Hold the filter in front of the sensor. (6) Observe video OUT with the oscilloscope and make sure that carrier leak of chrome is below 70mVp-p. (7) Take the filter off the lens.

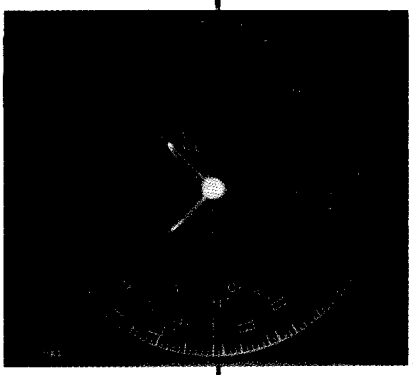


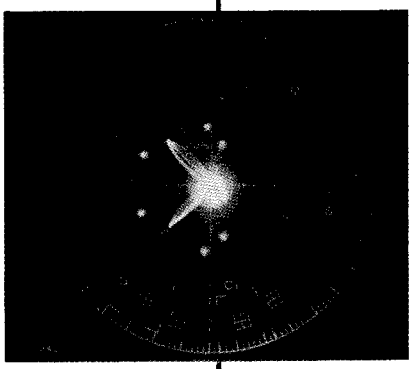
70mVp-p max.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Burst level	Lens shut-off colour chart	Vector scope SATURATION: 75% GAIN:Standard	Video out (Y/C MIX adapter)	(1) Observe with the vector scope at the standard sensitivity. (2) Adjust VR2ZA so that the angle between burst (N) and burst (N+1) is 90° . (3) Adjust VR2ZB so that the burst level is in 75% burst position. * If the burst have a level difference in between , Adjust it at centre. (4) Take the colour chart at the standard picture angle. (5) Set the vector scope at NTSC vector mode. (6) Adjust VR2JE so that the R bright points become only one. * The video IN terminal of the monitor connected to the vector scope shall be subjected to 75Ω termination.

PCB-EC

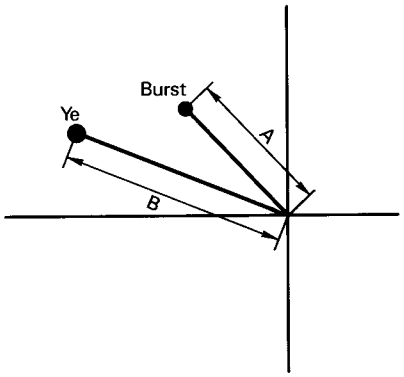
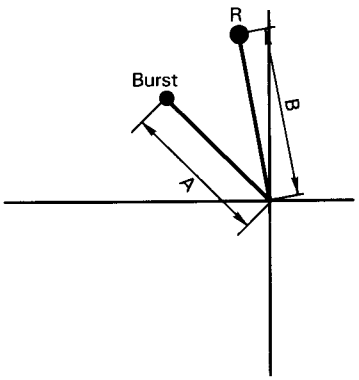


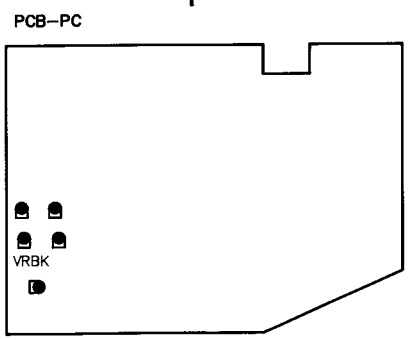


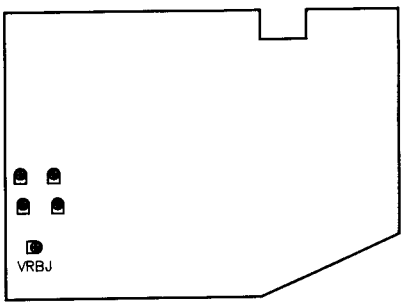


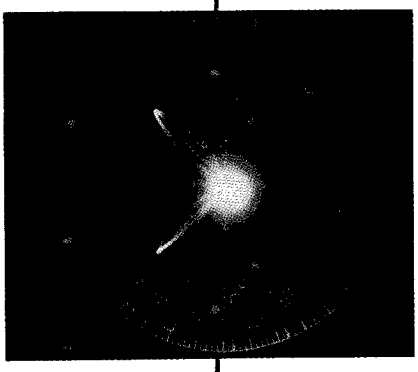
PAL mode

NTSC mode

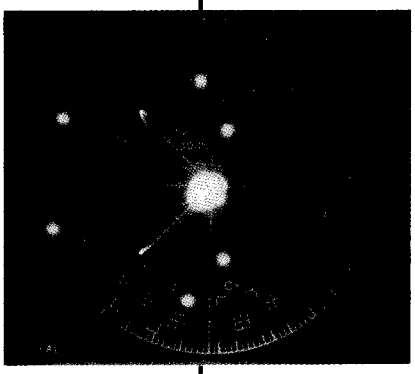
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B-Y gain	colour chart Sensor←Diffusing plate	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C mixing adapter at IN1(incandescent lamp) mode. (2) Take the colour chart at the standard picture angle. (3) Adjust VR2BK (PCB PC) so that the distance of Ye bright point from the centre is 1.5 times of the burst signal A.  $\frac{B}{A} = \frac{1.4}{1}$
R-Y gain	colour chart Sensor←Diffusing plate	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adapter)	(1) Adjust VR2BJ (PCB PC) following B-Y gain adjustment so that the distanceof R bright point from the centre is 1.05 times of the burst signal A. (2) Perform the above B-Y and R-Y gain adjustments again to the specified value respectively.  $\frac{B}{A} = \frac{1.05}{1}$

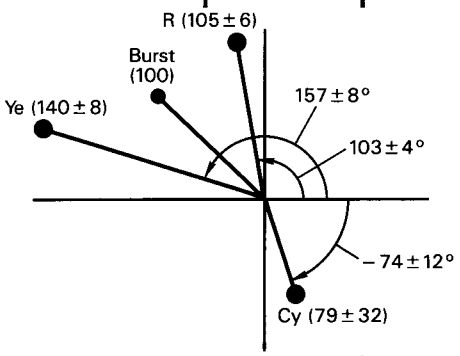






Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Check and adjustment of chroma angle and gain	colour chart Sensor←Diffusing plate	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adaptor	(1) Check the video out signal with the vector scope. (2) Be certain that the angle and gain of R, Ye and Cy are shown in left figure. If it deviates, excute the following adjustments again. ① Burst level ② B-Y gain ③ R-Y gain

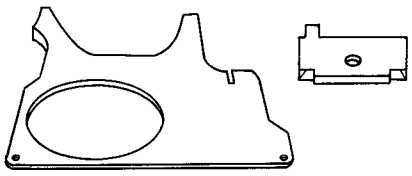
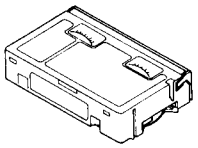
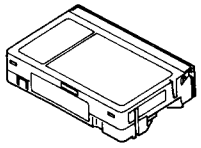




MECHANICAL ADJUSTMENTS

1. Jigs and Measuring Instruments Required for Mechanism Adjustment

1-1. Jigs for Adjustment

Master plane	Cassette torque meter	Alignment tape (PM6KE2C)
859C397030	859C360010	859C397060
		

1-2. Other Tools and Measuring Instruments Required

① Colour monitor (Colour TV)
② Oscilloscope
③ Hex key (1.5mm)
④ Box driver (4.5mm)

2. CLEANING

Cleaning of the following items is essential at servicing to maintain satisfactory performance at all times.

2-1 Cleaning the head

(1) If normal reproduction of image fails due to deposition of any foreign matter such as dust onto the head, immerse alcohol into a cloth for video head cleaning, put the cloth softly against the drum, and move the drum slowly counter-clockwise while fixing the cleaning cloth.

NOTE : Be careful not to touch directly the head tip attached to the upper drum. The head tip is of highly hard type and is brittle to impact (particularly in lateral direction) and is easily broken. Never move the head tip in lateral direction.

(2) When cleaned with alcohol, be sure to run a tape after drying fully. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-2 Cleaning the tape path system (Refer to Fig. 1)

The points to be cleaned of the tape run system are ;

1. Tension arm
2. Supply impedance roller
3. FE head
4. Impedance roller A
5. Supply guide roller
6. Supply slant pole
7. Upper & lower drums
8. Takeup guide roller
9. Takeup slant pole
10. Movable slant pole
11. A/C head guide shaft
12. AE, A/C head
13. Takeup guide pole
14. Pinch roller
15. Takeup guide arm
16. Capstan shaft
17. Pinch roller guide shaft

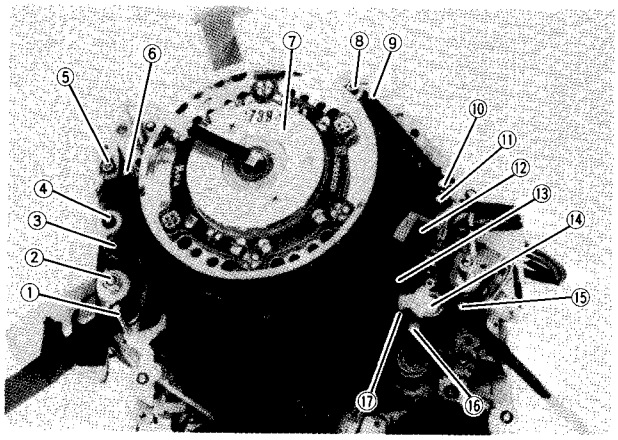


Fig.1

(1) Clean the tape run system with gauze wet with alcohol.

(2) When cleaned with alcohol, be sure to dry fully before running a tape. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-3 Cleaning the reel disk driving system

(1) To the reel disk driving system, clean the brake face of the reel disk.

(2) Clean the brake face with gauge wet with alcohol.

(3) When cleaned with alcohol, start operating the system after drying fully.

3. HOW TO ATTACH THE MASTER PLANE (Refer to Fig. 2.)

(1) Take off the cassette housing. (See 4-1.)

(2) Take off the gear LA3. (See 4-2.)

(3) Turn the supply '& Takeup guide assembly to loaded mode (by turning the main cam gear counter-clockwise).

(4) Attach the master plane (Pats No. : 859C397030) while fitting the positioning hole to the positioning pin of the main plate.

Note : When the master plane is used, keep it fixed firmly by pressing part A (See Fig. 2.)

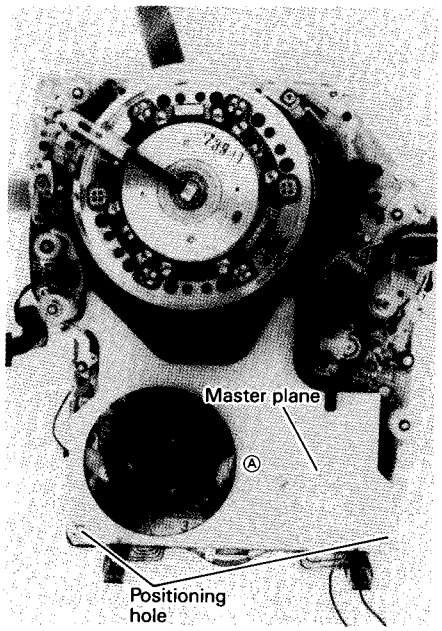


Fig.2

4. HOW TO REPLACE THE PRINCIPAL PARTS

4-1 Cassette housing replacement

4-1-1 Dismounting

(1) Keep the cassette housing closed.
(2) Remove the fixing screw (ⓐ : Fig. 3-1-1), and take the dew sensor and the lead wire off the cassette housing.
(3) Take the lead wire of FE head off the lead wire clamper of the tape end sensor. (See Fig. 3-1-2.)
(4) Remove the tape end sensor fixing screw (ⓑ : Fig. 3-1-2), and remove the tape end sensor from the cassette housing carefully so that the FPC cable may not be damaged.
(5) Take off six screws (3 at the left side ⓒ, ⓓ, ⓔ Fig. 3-1-3, and 3 at the right side ⓕ, ⓖ, ⓗ Fig. 3-1-4) fixing the cassette housing.
(6) Move the eject lever in arrow direction to change to eject mode. (See Fig. 3-1-1.)
(7) Take off two positioning pins (ⓘ, ⓙ, Fig. 3-1-4) at the right side of the cassette housing from the main plate.
(8) Take them off from the main plate by pushing the mounting seat at the right side of the cassette housing outward a little and by pulling upward.
(9) Turn the cassette housing clockwise around the positioning pin ⓚ (Fig. 3-1-3), make sure that the fixing screw ⓓ (Fig. 3-1-3) mounting seat is removed from the main plate passing under the spring-S, then take off the main plate by pulling upward carefully so that the tape end sensor and the lead wire may not be damaged.

4-1-2 Mounting

(1) Turn the cassette housing to eject mode.
(2) Temporarily fit the positioning hole ⓚ of the cassette housing with the positioning pin of the main plate in reverse order of dismounting the cassette housing, turn the cassette housing counter-clockwise around the point, then attach the left side of the cassette housing so that the positioning hole ⓛ (Fig. 3-1-3) goes under the spring S and coincides with the positioning pin of the main plate.
(3) Push the right side mounting seat of the cassette housing outward a little to lower it to the attaching position of the main plate, then attach to the main plate by fitting two positioning holes of the cassette housing (ⓘ, ⓙ : Fig. 3-1-4) to the positioning pins of the main plate.
(4) Tighten the cassette housing and fixed with six fixing screws (ⓒ, ⓓ, ⓔ, ⓕ, ⓖ & ⓗ).
(5) Attach the tape end sensor to the cassette housing.
(6) Bundle the lead wires of FE head with the lead wire clamper of the tape end sensor.
(7) Attach the dew sensor to the cassette housing.

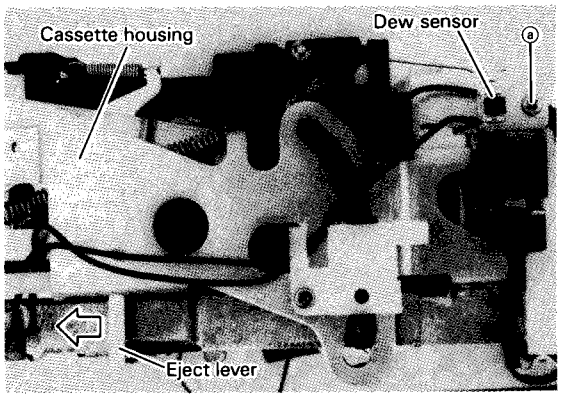


Fig.3 − 1 − 1

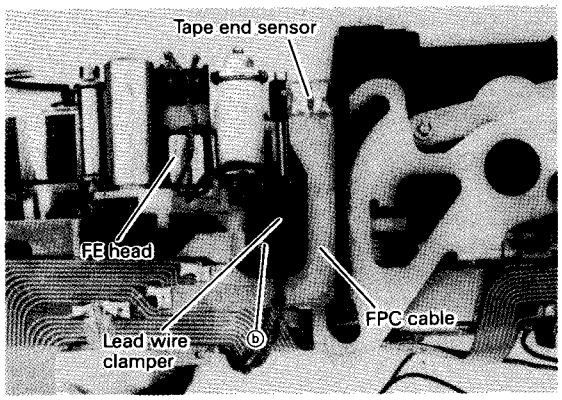


Fig.3 − 1 − 2

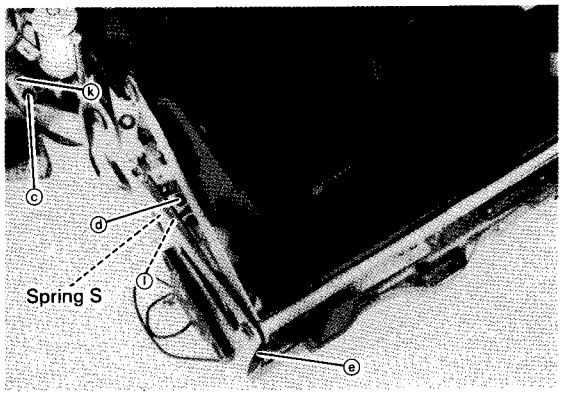


Fig.3 − 1 − 3

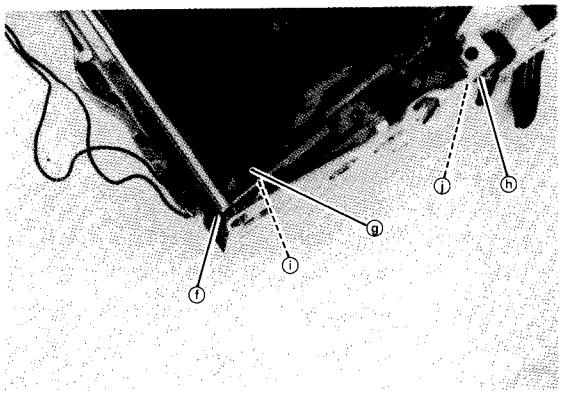


Fig.3 − 1 − 4

4-2 Gear LA3 replacement

Replacement of individual gear LA3 is seldom required but the supply & Takeup tape guide is turned to loading and unloading mode in some cases when other parts are adjusted or replaced.
The gear LA3 is taken off in such a case to turn the main cam gear.

4-2-1 Dismounting

(1) Take off the cut washer which is fixing the gear LA3 and take off the gear.

4-2-2 Mounting

(1) Attach the gear LA3 to the main plate and fix with the cut washer.

Note : The gear LA3 can be attached more easily by turning the main cam gear a little.

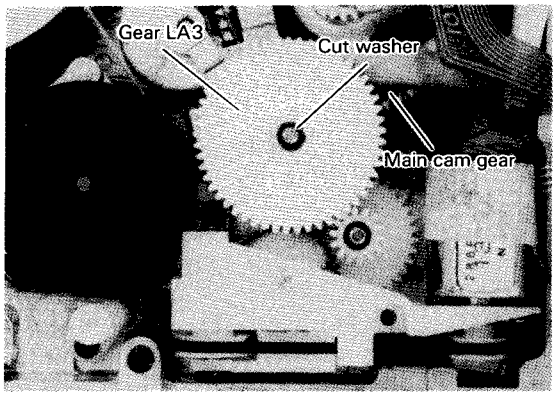


Fig.3 – 2 – 1

4-3 PCB MAD replacement

4-3-1 Dismounting

(1) Release the board holder on the main plate.
(2) Take off the connectors [AE] and [AF] on the PCB MDA.
(3) Take off the PCB MDA fixing screws and turn the board.
(4) Take off the FPC cables from the connectors [AB] and [AD] on the PCB MDA.
(5) Take the PCB MDA off the main plate.

4-3-2 Mounting

(1) Connect the FPC cable of the drum motor and the FPC cable of the capstan motor to the connectors [AD] and [AB] on the PCB MDA.
(2) Attach the PCB MDA onto the main plate and fix with the set screw and the board holder.
(3) Connect the [AE] connector from the AC head and the [AF] connector from the FE head to the connectors on the PCB MDA.

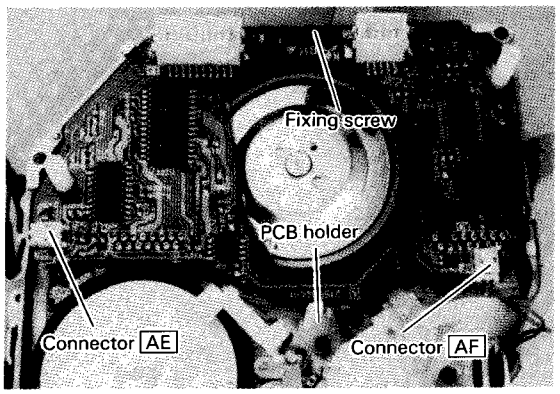


Fig.3 – 3 – 1

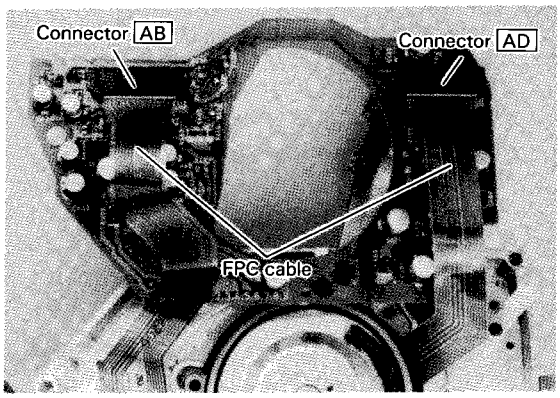


Fig.3 – 3 – 2

4-4 Drum assembly replacement

4-4-1 Dismounting

(1) Take off the fixing screw ⓐ (Fig. 3-4-1) and remove the brush.
(2) Take off the PCB MDA. (See 4-3.)
(3) While fixing the drum assembly firmly, remove three drum assembly fixing acrews (ⓑ, ⓒ, ⓓ Fig. 3-4-2).
(4) Hold up the drum assembly slowly so that the assembly may not touch any peripheral part then take off.

Note : The Takeup tape guide stopper is positioned close to the drum assembly. In detaching and attaching the drum assembly, be careful not to put the assembly in contact with the stopper.

4-4-2 Mounting

(1) Pass the FPC cable attached to the drum assembly from the front side to the pack side of the drum assembly mounting hole.
(2) Attach the drum assembly onto the main plate so that the positioning pins on the main plate (ⓖ, ⓗ : Fig. 3-4-4) go into the positioning holes (ⓔ, ⓕ: Fig. 3-4-3) of the assembly while carefully avoiding contact with any peripheral part of the drum assembly.
(3) Fix the drum assembly with three drum assembly fixing screws (ⓑ, ⓒ, ⓓ : Fig. 3-4-2).
(4) Attach the PCB MDA.
(5) Attach the brush.

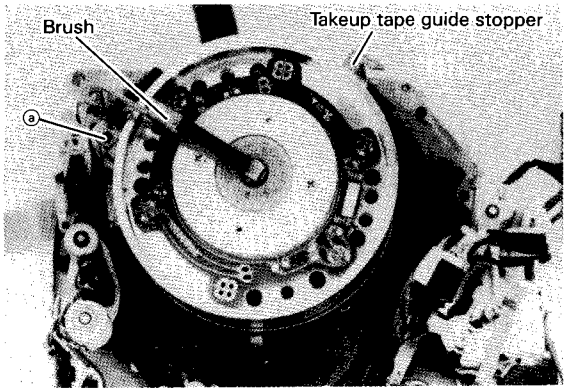


Fig.3 − 4 − 1

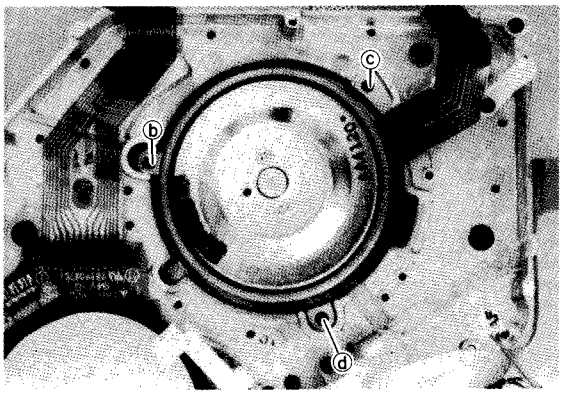


Fig.3 − 4 − 2

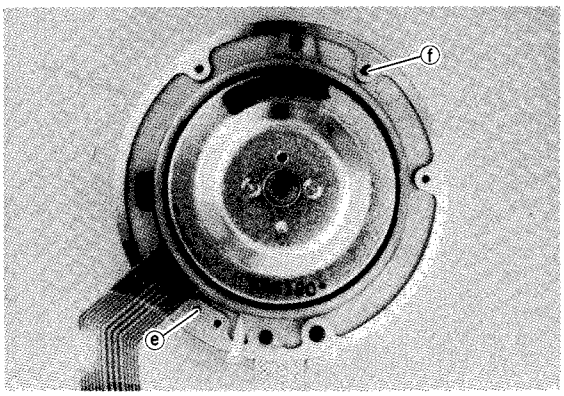


Fig.3 − 4 − 3

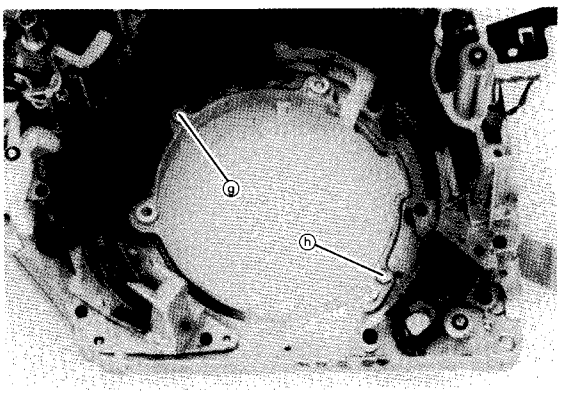


Fig.3 − 4 − 4

4-5 Upper drum replacement

4-5-1 Dismounting

(1) Remove the fixing screw ⓐ (Fig. 3-5-1) and take off the brush.

(2) Remove solder from the solder terminals of each head (4 terminals to each head) on the periphery of the upper drum. (See Fig. 3-5-2)

(3) Take off two upper drum fixing screws (ⓑ, ⓒ : Fig. 3-5-2) on the upper drum.

(4) Take the upper drum off the lower drum by holding upward.

Note : If the upper drum is hard to remove even when the two fixing screws and the solder terminals of each head are taken off, heat the root of the upper drum fixing screws with a solder iron for easier removing.

4-5-2 Mounting

(1) Face the head channel position check hole of the lower drum to this side.

(2) Face the head channel position check mark of the upper drum to the right side, and attach the upper drum to the lower drum so that each terminal of the lower drum goes into the hole of each solder terminal of the upper drum.

(3) Fix the upper drum to the lower drum with two fixing screws (ⓑ, ⓒ : Fig. 3-5-2)

(4) Solder the non-soldered terminals on the upper drum.

(5) Attach the brush.

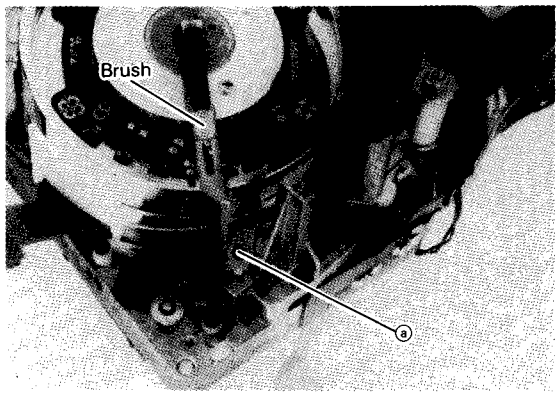


Fig.3 – 5 – 1

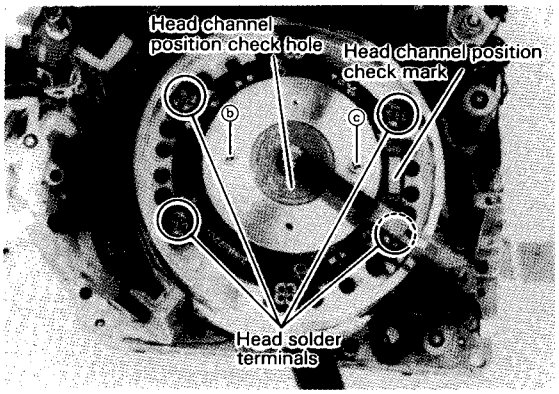


Fig.3 – 5 – 2

4-6 SYNC belt replacement

4-6-1 Dismounting

(1) Loosen two fixing screws (ⓐ, ⓑ Fig. 3-6-1) to the point where the reel idler can move.

(2) Slide the reel idler in arrow direction, and take off the SYNC belt from the capstan motor and the reel idler.

4-6-2 Mounting

(1) Slide the reel idler in arrow direction, and attach the SYNC belt to the capstan motor and the reel idler.

(2) Slide the reel idler in opposite direction of the arrow to stop, then fix with two fixing screws (ⓐ, ⓑ : Fig. 3-6-1).

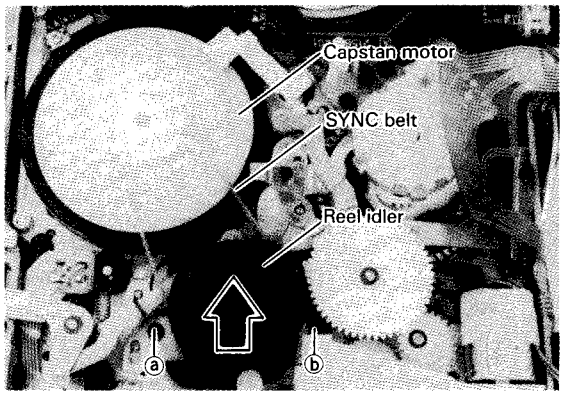


Fig.3 – 6 – 1

4-7 Capstan motor replacement

4-7-1 Dismounting

(1) Remove the cassette housing. (See 4-1.)
(2) Take off the PCB MDA. (See 4-3.)
(3) Take off the SYNC belt. (See 4-6.)
(4) Remove the fixing screw ⓐ (Fig. 3-7-1) and take off the capstan brake.
(5) Remove the fixing screw ⓑ (Fig. 3-7-1) and take off the cam gear hold plate.
(6) While fixing the capstan motor firmly, take off three fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-7-2) from the front side of the main plate, and take out the capstan motor slowly from the rear side of the main plate using care so that the motor may not come in contact with any peripheral part.

4-7-2 Mounting

(1) From the rear side of the main plate, attach the capstan motor carefully so that the motor may not come in any peripheral part, then fix from the front side of the main plate with three fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-7-2).
(2) Mount the cam gear hold plate onto the main plate so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓑ (Fig. 3-7-1).
(3) Mount the capstan brake so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓐ (Fig. 3-7-1).
(4) Attach the SYNC belt.
(5) Attach the PCB MDA.
(6) Attach the cassette housing.

4-8 Loading motor & loading belt replacement

4-8-1 Dismounting

(1) While keeping the cassette housing under eject mode, remove the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side.
(2) Take off the cut washer (Fig. 3-8-2) which is fixing the gear LA3, and remove the gear.
(3) Remove the fixing screw ⓐ (Fig. 3-8-2), and hold the loading motor assembly upward to take it off the main plate.
(4) Remove the loading belt from the worm LA and the loading motor. (Fig. 3-8-3)
(5) Remove two fixing screws (ⓑ, ⓒ : Fig. 3-8-3) and take the loading motor off the motor holder.

4-8-2 Mounting

(1) Attach the loading motor onto the motor holder, and fix with two fixing screws (ⓑ, ⓒ : Fig. 3-8-3).
(2) Attach the loading belt to the worm LA and the loading motor.
(3) Mount the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate, then fix with the fixing screw ⓐ (Fig. 3-8-2).
(4) Mount the gear LA3.
(5) Attach the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side of the deck.

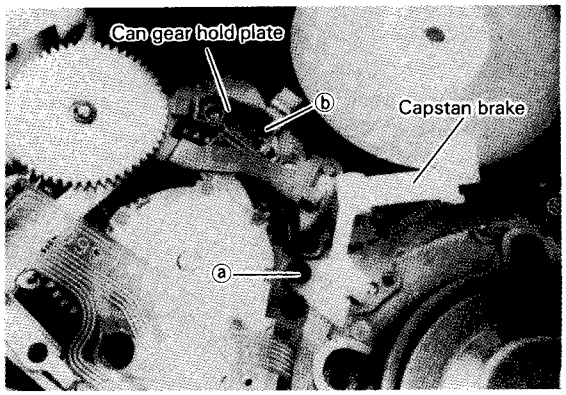


Fig.3 – 7 – 1

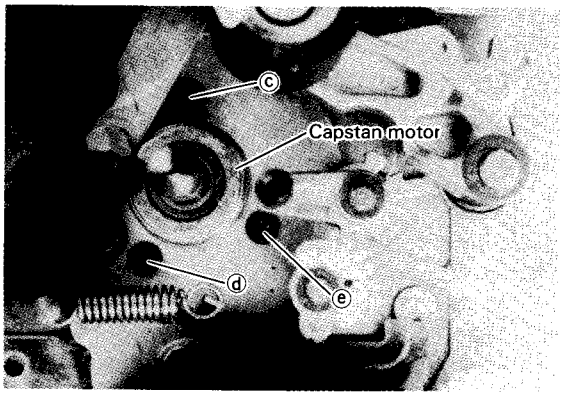


Fig.3 – 7 – 2

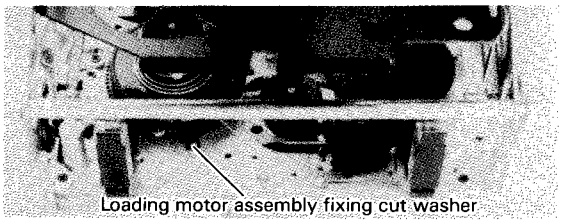


Fig.3 – 8 – 1

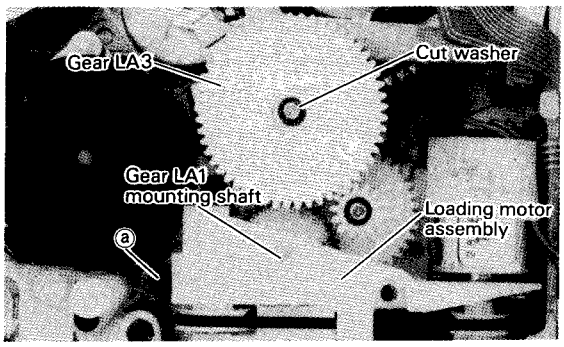


Fig.3 – 8 – 2

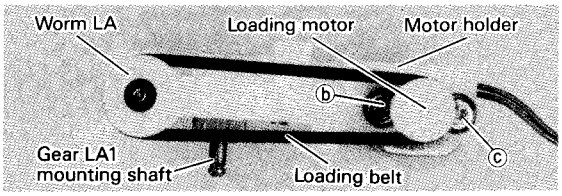


Fig.3 – 8 – 3

4-9 Pinch roller replacement

4-9-1 Dismounting

(1) Keep the cassette housing under eject mode.

(2) Remove the fixing screw ⓐ (Fig. 3-9-1) and take the door guide A off the cassette housing.

(3) Pull the pinch roller cap upward to take it off the pinch roller arm.

(4) Pull the pinch roller upward to take it off the pinch roller arm.

4-9-2 Mounting

(1) Attach the pinch roller to the pinch roller arm.

(2) Attach the pinch roller cap to the pinch roller arm so that the positioning shaft of the pinch roller arm goes into the positioning hole of the pinch roller cap.

(3) Attach the door guide A to the cassette housing so that the positioning pin of the door guide A goes into the positioning hole of the cassette housing, then fix with the fixing screw ⓐ (Fig. 3-9-1).

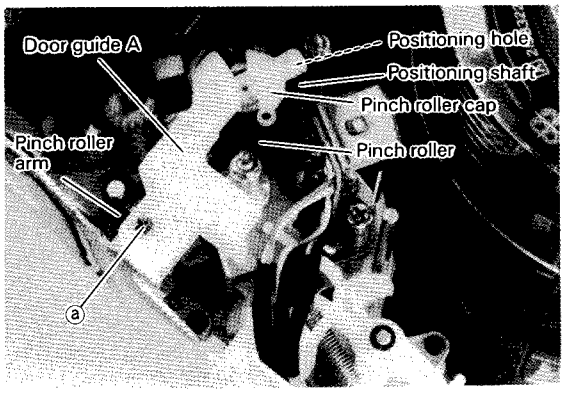


Fig.3 − 9 − 1

4-10 Mode switch replacement

4-10-1 Dismounting

(1) Remove the connector AF on the PCB MDA. (See Fig. 3-10-1.)

(2) Remove two mode switch fixing screws (ⓐ, ⓑ : Fig. 3-10-1) and take the mode switch off the main plate.

(3) Remove solder of 5 solder terminals of the FPC cable soldered to the mode switch , and take off the FPC cable from the mode switch. (See Fig. 3-10-2.)

4-10-2 Mounting

(1) Match the check-up marks on the mode switch.

(2) Practice fine adjustment by turning the gear of the mode switch while checking with a tester so that the circuits between the common terminal of the mode switch and each terminal are conducted in the following state ;

Note : Use a tester of ×1000 range.

P0 ..... Conducting

P1 ..... Conducting

P2 ..... Open

P3 ..... Conducting

(3) Attach the mode switch onto the main plate while carefully preventing the mode switch gear from turning and in the manner that the gear is meshed with the main cam gear (centre side), and fix the switch with two fixing screws. (ⓐ, ⓑ : See Fig. 3-10-1.)

(4) Connect the connector AF on the PCB MDA.

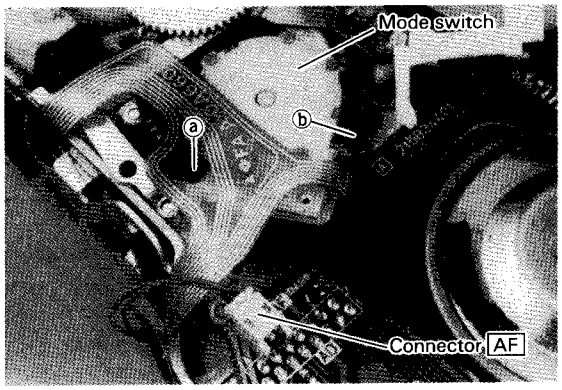


Fig.3 − 10 − 1

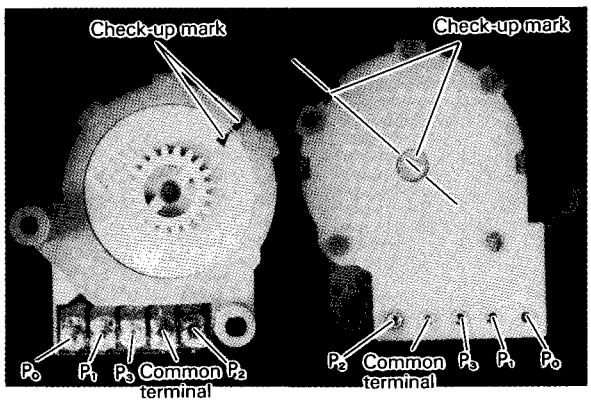


Fig.3 − 10 − 2

4-11 Supply reel disk replacement

4-11-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer (Fig. 3-11-1) which is fixing the supply reel disk.
(3) Take the reel disk off the main plate by moving the brake S in arrow direction.

4-11-2 Mounting

(1) Make sure that the thrust washer is attached to the reel disk mounting shaft.
(2) Move the brake S in arrow direction and attach the reel disk to the reel disk mounting shaft.
(3) Make sure that the supply reel disk turns smoothly while the brake S is kept at the moved position.
(4) Mount the master plane. (See Para. 3 on page 46.)
(5) Place a square for height adjustment (reel disk measuring side : REEL-M mark) on the master plane.
(6) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of measuring points) and doesn't turn at B point (lower one of measuring points).
Check this in two directions of X axis and Y axis.
(7) If the result of the above check isn't satisfactory, adjust by changing number of the thrust washers (material code : 552C001020) attached under the reel disk.
(8) Fix the reel disk by the cut washer.
(9) Mount the cassette housing.

4-12 Reel gear A replacement

4-12-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer ⓐ (Fig. 3-12-1) which is fixing the gear TU1-A, and remove the gear TU1-A from the main plate.
(3) Take off the cut washer ⓑ (Fig. 3-12-1) which is fixing the reel gear A.
(4) Take the reel gear A off the main plate while moving the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 a little to the right.

4-12-2 Mounting

(1) Make sure that the thrust washer is attached to the reel gear A mounting shaft.
(2) Move the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 slightly to the right.
(3) Attach the reel gear A to the main plate so that the lower gear of the reel gear A is meshed with the gear of the reel gear lock unit, then fix with the washer ⓑ (Fig. 3-12-1).
(4) Make sure that the thrust washer is attached to the gear TU1-A mounting shaft.
(5) Attach the gear TU1-A and fix with the cut washer ⓐ (Fig. 3-12-1)
(6) Attach the cassette housing.

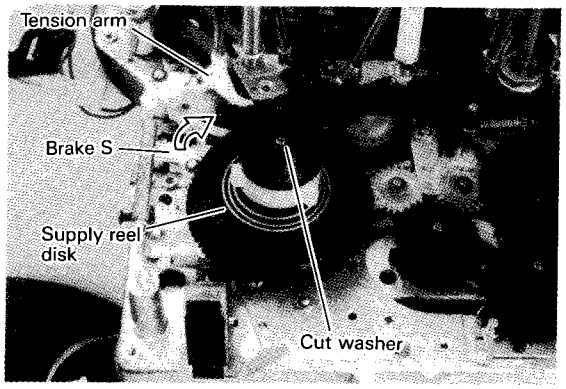


Fig.3 – 11 – 1

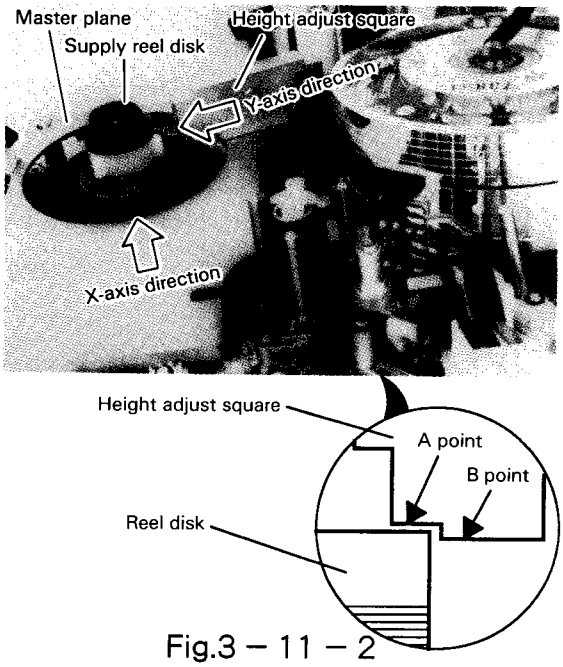


Fig.3 – 11 – 2

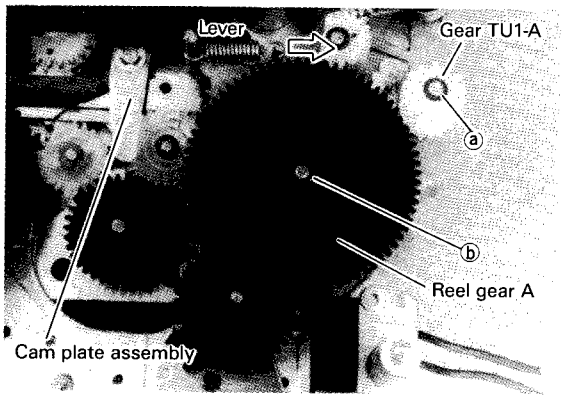


Fig.3 – 12 – 1

4-13 AC head replacement

4-13-1 Dismounting

(1) Keep the cassette housing under eject mode.
(2) Remove the fixing screw ⓐ (Fig. 3-13-1), and take the door guide A off the cassette housing.
(3) Remove the connector [AE] on the PCB MDA.
(4) Take off the lead wires connected to the AC head from the lead wire holder. (Fig. 3-13-1)
(5) Remove the fixing screw ⓑ (Fig. 3-13-1) and take off the lead wire holder.
(6) Remove the nut S which is fixing the AC head assembly while holding the head assembly so as not to come in contact with the peripheral parts. (See Fig. 3-13-2.)
(7) While pressing the AC arm spring, hold the AC head assembly upward to take if off the AC head base plate.
(8) Remove three screws (ⓒ, ⓓ, ⓔ: Fig. 3-13-3) which are fixing the AC head to the AC head arm and the AC spring, then take the AC head off the AC head arm.
(9) Remove the lead wires connected to the AC head.

4-13-2 Mounting

(1) Solder the lead wires to the AC head.
(2) With the flange screw ⓔ (Fig. 3-13-3) and the AC spring, attach the AC head to the AC arm.

Note : Edge of the flange screw ⓔ may tighten and fix the AC head in some cases. Move the AC head for trial to make sure that the head isn't fixed.

(3) Fix the AC head with two screws (ⓒ, ⓓ : Fig. 3-13-3) so that the mounting face of the AC head is kept parallel to the AC head arm.
(4) Attach the AC head assembly to the AC head base plate so that one end of the AC arm spring is hooked onto the AC head base plate and the other end onto the AC head arm. (See Fig. 3-13-2.)
(5) Attach the nut S (Fig. 3-13-2) to the AC head assembly mounting shaft, and tighten to the point where the front end of the AC head arm (part A in Fig. 3-13-4) comes down to the bottom.

Note : If the nut S is tightened over the point where the front end of the AC head arm comes to the bottom, the front end goes up in reverse.

(6) Turn the nut S 3/4 of a turn counter-clockwise.
(7) Attach the lead wire holder onto the AC head base plate, and bind the lead wires connected to the AC head with the lead wire holder.

Note : When binding the lead wires, give allowance to the lead wires so that no load is applied to the AC head.

(8) Attach the door guide A.
(9) Connect the connector [AE] to the connector on the PCB MDA.
(10) Practice adjustment of the AC head as described in Para. 5-4.

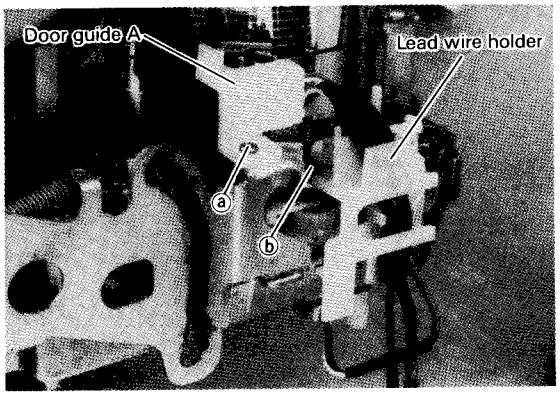


Fig.3 – 13 – 1

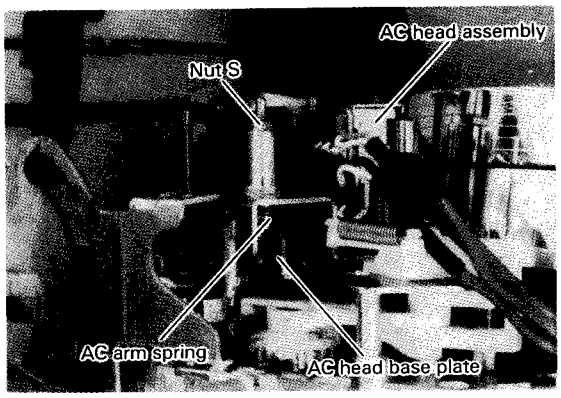


Fig.3 – 13 – 2

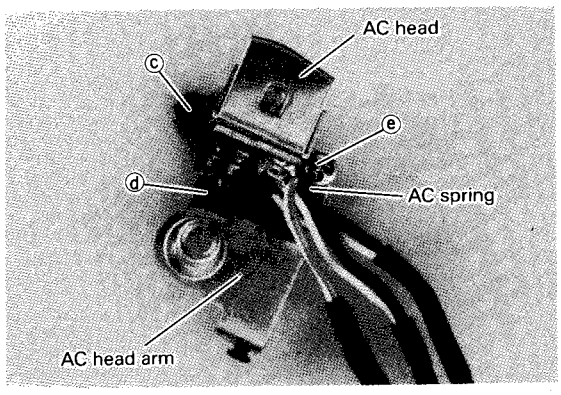


Fig.3 – 13 – 3

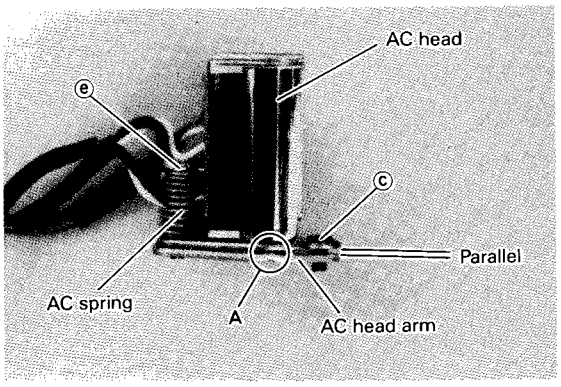


Fig.3 – 13 – 4

4-14 FE head & supply impedance roller replacement

4-14-1 Dismounting

(1) Remove the cassette housing. (See Para. 4-1.)
(2) Take off the gear LA3 from the rear side of the deck. (See Para. 4-2.)
(3) Turn the main cam gear counter-clockwise to keep the tape guide under loading mode.
(4) Disconnect the connector AF on the PCB MDA.
(5) While pressing the upper impedance flange, take off the nylon nut which is fixing the FE head assembly and the supply impedance roller. (See Fig. 3-14.1.)
(6) Take off the upper impedance flange, impedance roller, impedance sleeve and the lower impedance flange.
(7) Take off the FE spring, IMP washer, and the FE head arm assembly.
(8) Take off the lead wire of the FE head from the lead wire clamper.
(9) Remove the FE head fixing screw and take the FE head off the FE head arm.

4-14-2 Mounting

(1) Attach the FE head to the FE head arm and fix with the fixing screw. (See Fig. 3-14-2.)
(2) With the clamper of the FE head, bind the lead wires of the FE head.
(3) Attach the FE head arm assembly onto the main plate. (See Fig. 3-14-1.)
(4) Attach the IMP washer to the main plate so that the bottom of the IMP washer goes into the positioning hole on the main plate.
(5) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, then softly tighten the nylon nut.
(6) Hook one end of the FE spring onto the IMP washer, and the other end onto the FE head arm.
(7) Mount the master plane. (See Para.3 on Page 46.)
(8) Put a square for height adjustment (supply impedance roller measuring side : S mark) onto the master plane.
(9) Slide the height measuring part of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and is higher than B point (lower one of measuring parts).
(10) If the result of the checking isn't satisfactory, adjust height by turning the nylon nut.
(11) Turn the main cam gear clockwise to switch the tape guide assembly to unloading mode.
(12) Attach the gear LA3 from the rear side of the deck.
(13) Attach the cassette housing.
(14) Connect the connector AF to the PCB MDA and bind the lead wires with the clamper.

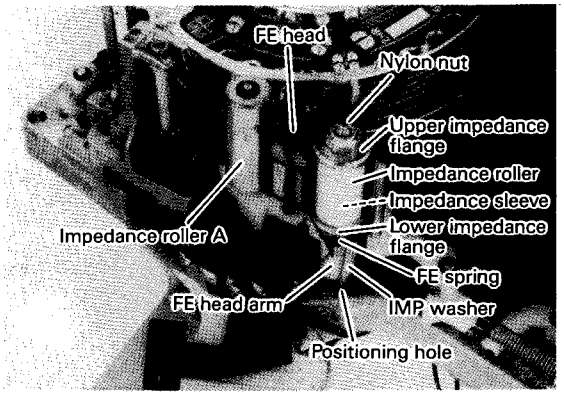


Fig.3 – 14 – 1

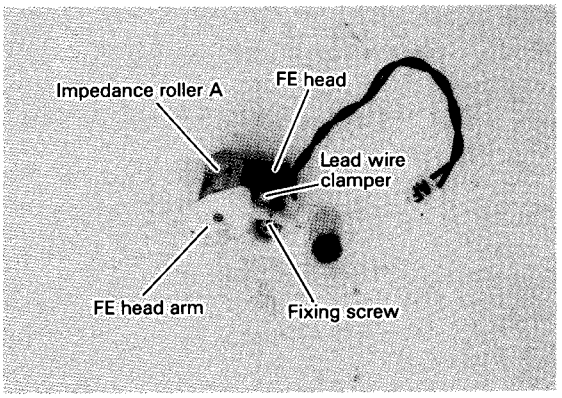


Fig.3 – 14 – 2

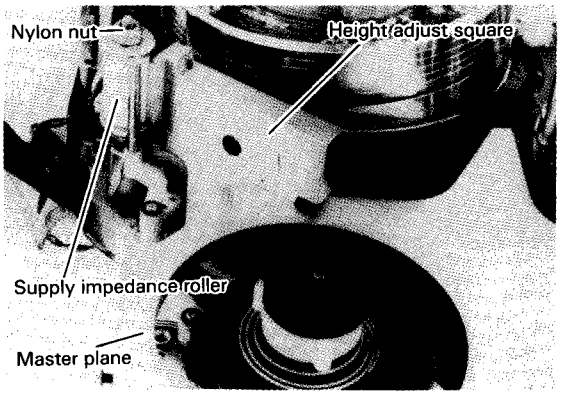


Fig.3 – 14 – 3

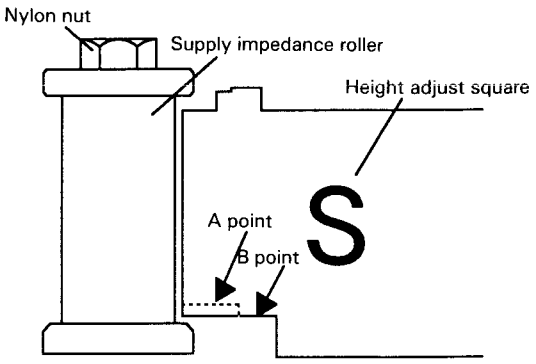


Fig.3 – 14 – 4

4-15 Slant arm replacement

4-15-1 Dismounting

(1) Remove the cassette housing. (See Para. 4-1.)
(2) Take off the pinch roller cap and the pinch roller. (See 4-9.)
(3) Take off the cut washer shown in Fig. 3-15-1, and remove the set arm LU, set arm SU and the spring AS.
(4) Disconnect the connector [AE] on the PCB MDA.
(5) Remove three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1), and take the AC plate assembly from the main plate .
(6) Take off the set arm SL and LL. (See Fig. 3-15-2.)
(7) Remove the cut washer for fixing the slant arm. (See Fig. 3-15-2.)
(8) Turn the cam gear SS counter-clockwise as shown in Fig. 3-15-3 and move the slant arm a little.
(9) Hold up the slant arm to take off the shaft.

4-15-2 Mounting

(1) Attach the slant arm to the shaft so that the slant arm gear and cam gear SS are positioned each other as illustrated in Fig. 3-15-3, then fix with the cut washer.
(2) Turn the cam gear SS clockwise to the point where the slant arm stops.
(3) Attach the set arm LL and SL to the shaft as shown in Fig. 3-15-2.
(4) Attach the AC plate assembly to the main plate, and fix with three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1).
(5) Attach the set arm SU and LU to the shaft, fix them with the cut washer, and attach the spring AS to the set arm SU and LU. (See Fig. 3-15-4.)
(6) Attach the pinch roller and the pinch roller cap.
(7) Connect the connector [AE] on the PCB MDA.
(8) Mount the cassette housing.

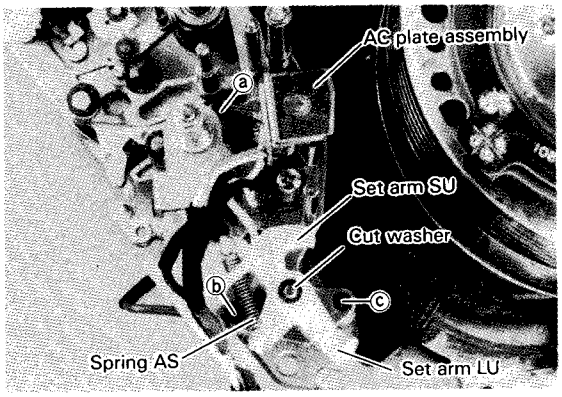


Fig.3 – 15 – 1

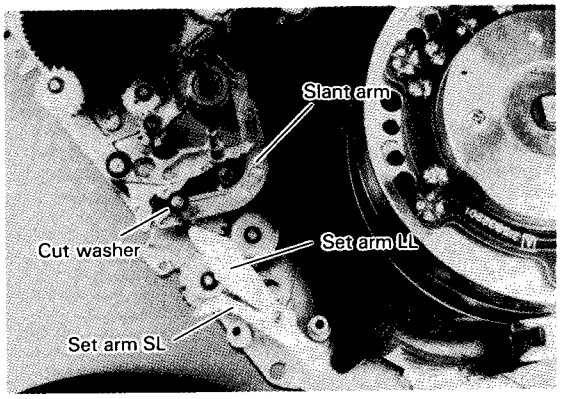


Fig.3 – 15 – 2

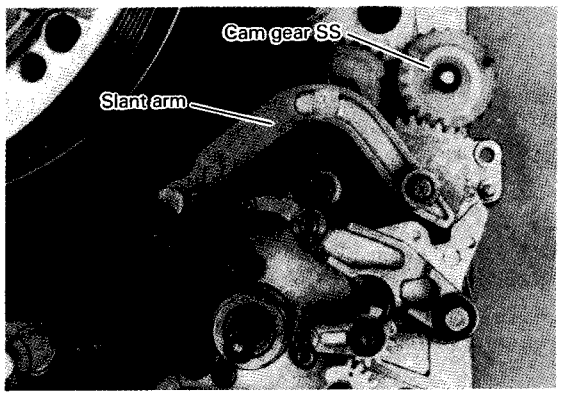


Fig.3 – 15 – 3

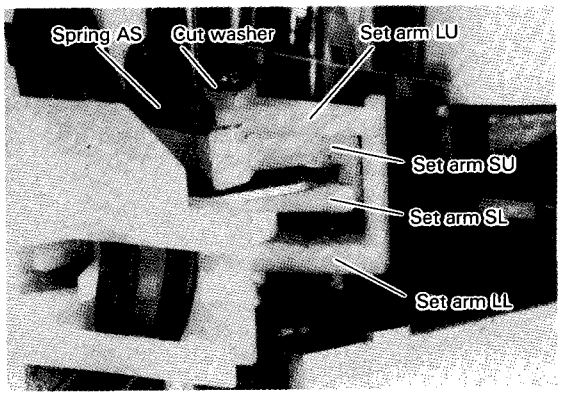


Fig.3 – 15 – 4

4-16 Takeup guide arm replacement

4-16-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer which is fixing the Takeup guide arm. (See Fig. 3-16-1.)
(3) While pressing the spring RP, hold the Takeup guide arm upward to take it off the main plate.

4-16-2 Mounting

(1) Attach the Takeup guide arm to the main plate so that the Takeup guide arm, Takeup guide gear, and spring RP are positioned relatively as shown in Fig. 3-16-2, then fix with the cut washer.
(2) Mount the cassette housing

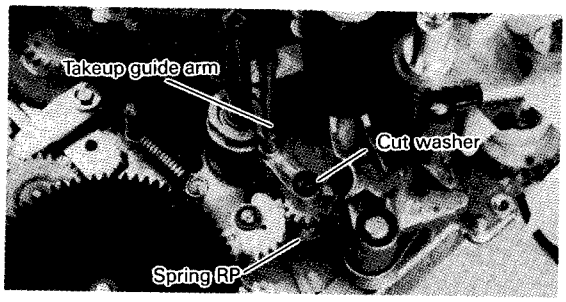


Fig.3 – 16 – 1

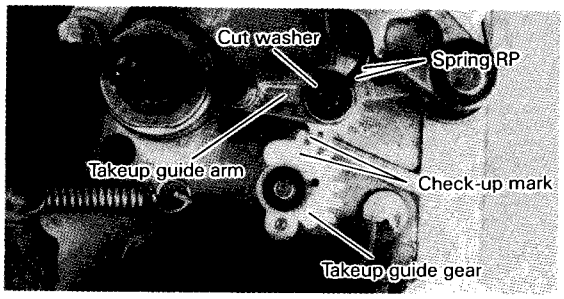


Fig.3 – 16 – 2

4-17 Takeup guide pole replacement

4-17-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the gear LA3 from the rear side of the deck.
(3) Turn the main cam gear counter-clockwise to switch the tape guide to loading mode.
(4) Take off the nut S which is fixing the Takeup guide pole.
(5) Take off the guide poll upper flange and the guide pole from the shaft.

4-17-2 Mounting

(1) Attach the guide pole and the guide pole upper flange to the shaft and fix with the nut S.
(2) Mount the master plane.
(3) Place the height adjusting square (Takeup guide pole measuring side: T mark) on the master plane.
(4) Slide the height measuring part of the square to the edge of the guide pole lower flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and higher than B point (lower one of measuring parts).
(5) If result of the check isn't satisfacrory, adjust the height by turning the nut S.
(6) Apply thread-lock to the nut S.
(7) Turn the main cam gear clockwise to change the tape guide to unloading mode.
(8) Attach the gear LA3 from the rear side of the deck.
(9) Mount the cassette housing.

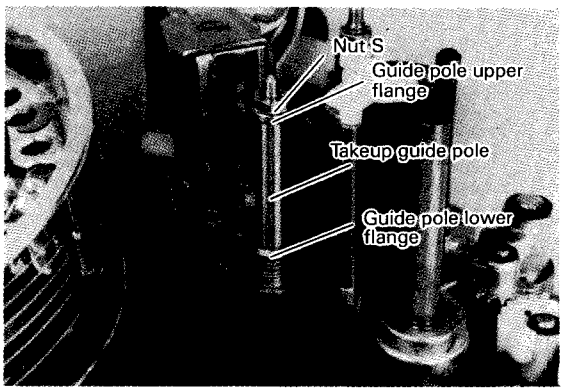
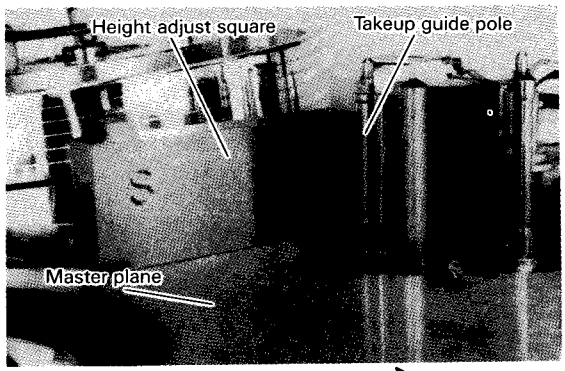


Fig.3 – 17 – 1



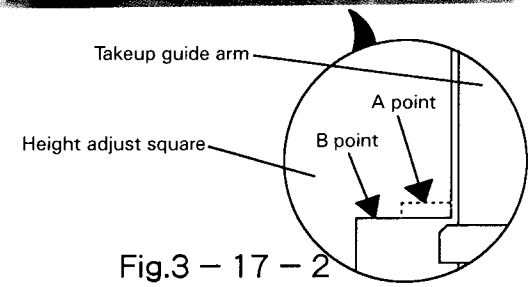


Fig.3 – 17 – 2

4-18 Supply guide roller replacement

4-18-1 Dismounting

(1) Take off the clamp of the lead wires connected to the FE head. (See Fig. 3-18-1.)
(2) Remove the tape end sensor fixing screw, and take the tape end sensor off the cassette housing carefully so that the FPC cable may not be damaged.
(3) Keep the cassette housing under eject mode.
(4) Turn the tension arm assembly clockwise a little, and slacken the set screw to the degree that the guide roller proper turns easily.
(5) Turn the guide roller counter-clockwise to tape it off the supply tape guide.

4-18-2 Mounting

(1) Attach the guide roller to the supply take guide, turn the roller clockwise to tighten a little, then turn 1-2/3 of a turn counter-clockwise.
(2) Turn the tension arm assembly clockwise a little and temporarily fix the guide roller lightly with the set screw.
(3) Attach the tape end sensor to the cassette housing and fix with the fixing screw.
(4) Bind the lead wires of the FE head with the clamper for the lead wires of the tape end sensor.
(5) Adjust height of the guide roller as described in Para. 5-3.

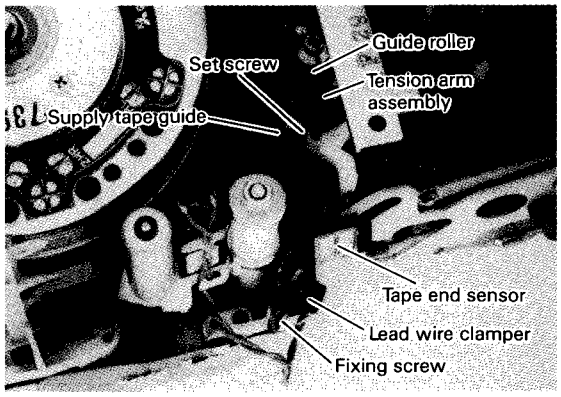


Fig.3 – 18 – 1

4-19 Takeup guide roller replacement

4-19-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the gear LA3 from the rear side of the deck.
(3) Move the takeup tape guide to loading direction by about 1cm by turning the main cam gear counter-clockwise.
(4) Slacken the set screw to the degree where the guide roller proper turns easily.
(5) Turn the guide roller counter-clockwise to take if off the Takeup tape guide.

4-19-2 Mounting

(1) Attach the guide roller to the Takeup tape guide, tighten a little by turning clockwise, then turn 1-2/3 of a turn counter-clockwise.
(2) Fix the guide roller lightly with the set screw.
(3) Turn the main cam gear clockwise to switch the tape guide to unloading mode.
(4) Attach the gear LA3 from the rear side of the deck.
(5) Mount the cassette housing.
(6) Adjust guide roller height as described in Para. 5-3.

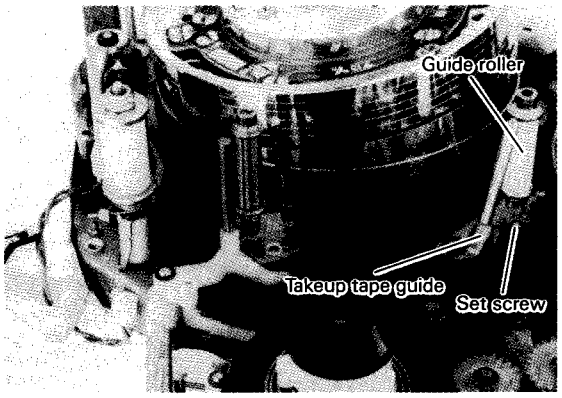


Fig.3 – 19 – 1

4-20 Supply & Takeup tape guide replacement

4-20-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the drum assembly.
(3) Remove the gear LA3 from the rear side of the deck.
(4) Turn the main cam gear counter-clockwise to switch the supply & Takeup tape guide to loading mode.
(5) Take the LED holder from the guide slider. (See Fig. 3-20-1.)
(6) Remove six screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ: Fig. 3-20-1) which are fixing the guide slider.
(7) Take off the cut washer which is connecting the Takeup tape guide with the ring unit TA.
(8) Remove the guide slider from the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise.
(9) Turn the gear LA5 counter-clockwise to the degree that the supply & Takeup tape guide is disengaged from the tape guide stopper. (See Fig. 3-20-2.)
(10) Take off the supply & Takeup tape guide from the ring unit SA and TA.

4-20-2 Mounting

(1) Check and adjust outside dimensions of the supply & Takeup tape guide to the dimensions shown in Fig. 3-20-3.
(2) Attach the supply & Takeup tape guide to the ring unit SA and TA.
(3) Turn the gear LA5 clockwise and set the supply & Takeup tape guide at the loading position of the tape guide stopper.
(4) With a thin screw driver, hold up the ring unit TA and fix the takeup tape guide with the cut washer.
(5) Attach the guide slider to the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise, and fix with 6 fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ: Fig. 3-20-1).
(6) Attach the LED holder to the guide slider.
(7) Turn the main cam gear clockwise to set the supply & Takeup tape guide to unloading mode.
(8) Attach the gear LA from the rear side of the deck.
(9) Attach the drum assembly.
(10) Attach the brush.
(11) Attach the PCB MDA.
(12) Mount the cassette housing.

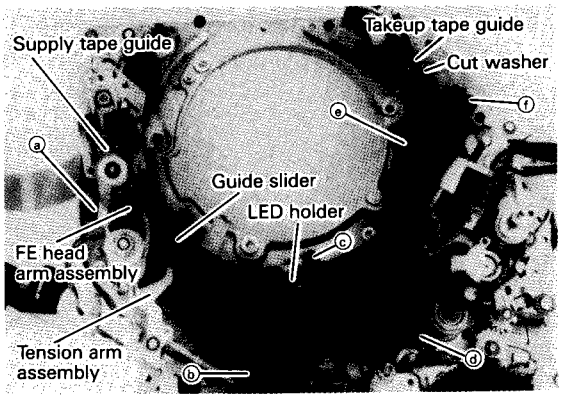


Fig.3 – 20 – 1

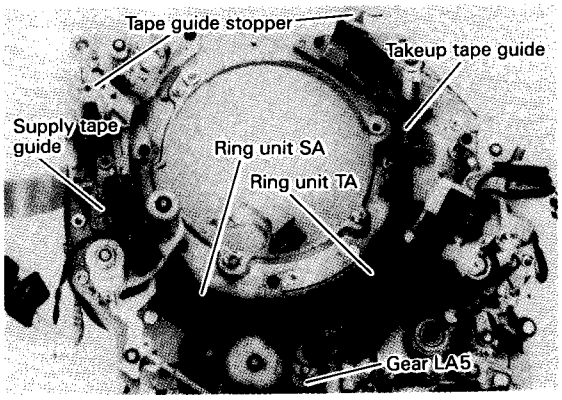


Fig.3 – 20 – 2

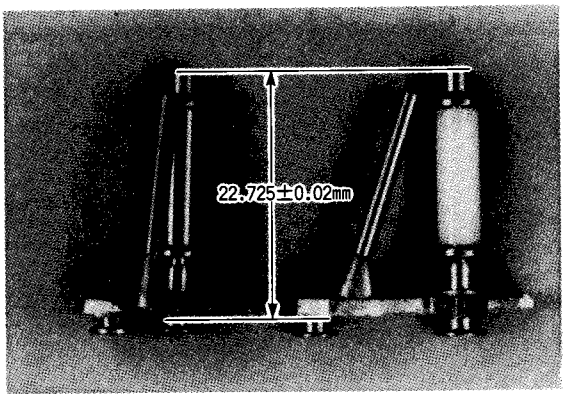


Fig.3 – 20 – 3

4-21 Positioning and mounting procedure of peripheral parts of main cam gear (Front side)

4-21-1 Attaching cam plate assembly and gear LA7

(1) Attach the cam plate assembly to the main plate and fix with five fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ: Fig. 3-21-1).

(2) Attach the gear LA7 to the main plate and fix with the cut washer.

4-21-2 Attaching the holder RB and ring unit TA

(1) Attach the ring unit TA to the holder RB, attach the holder RB to the main plate so that three positioning pins of the holder RB fit the positioning holes of the main plate, yet the check-up marks of the ring unit TA and the gear LA fit the check-up marks on the main plate, then fix with 4 fixing screws (ⓕ, ⓖ, ⓗ, ⓘ).

4-21-3 Attaching the holder RA

(1) Attach the holder RA to the main plate so that 3 positioning pins of the holder RA fit the positioning holes on the main plate, then fix with 3 fixing screws (ⓙ, ⓚ, ⓛ). (See Fig. 3-21-2.)

4-21-4 Attaching the gear LA5 and holder RC

(1) Fit the check-up marks of the gear LA4.

(2) While fixing the gear LA4, attach the gear LA5 to the main plate so that the check-up marks are fitted, then fix with the holder RC and the fixing screw.

4-21-5 Attaching the ring unit SA, ring roller and ring gear

(1) Slide the ring unit TA counter-clockwise to the extent that it doesn't go off the gear LA7. (See Fig. 3-21-3.)

(2) Attach the ring unit SA onto the holder RB, and fix with the ring roller, ring gear and two cut washers.

4-21-6 Attaching the gear LA6

(1) Slide the ring unit TA clockwise and the ring unit SA counter-clockwise respectively, and fit check-up mark of each to the check-up mark on the main plate. (See Fig. 3-21-4.)

(2) After making sure that the check-up marks of the gear LA5 and LA7 are matched, attach the gear LA6 to the main plate while fixing the ring unit TA, SA and the gear LA5, and fix with the cut washer.

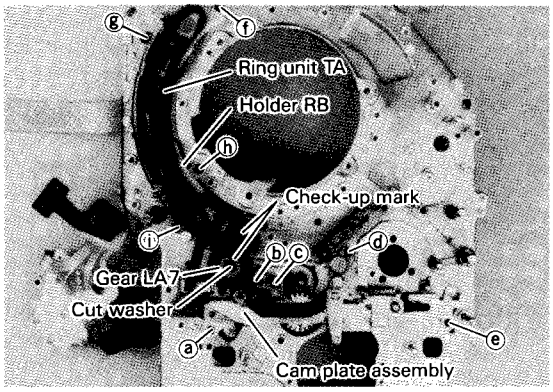


Fig.3 − 21 − 1

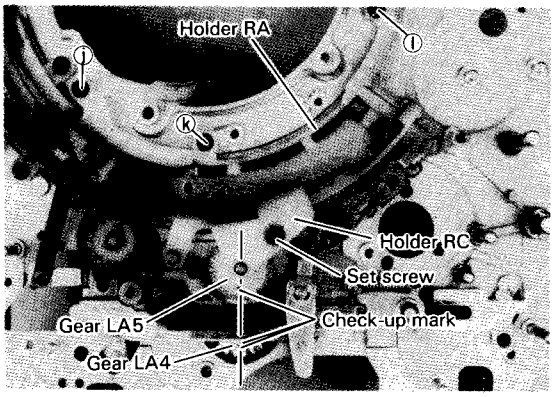


Fig.3 − 21 − 2

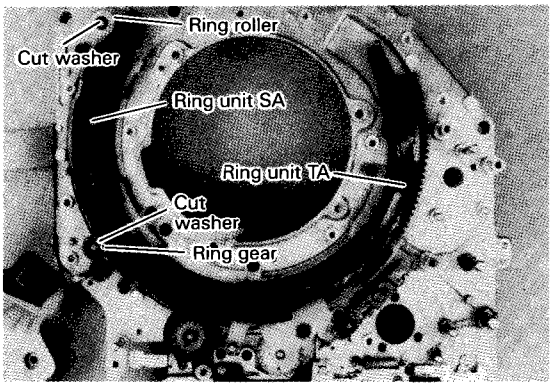


Fig.3 − 21 − 3

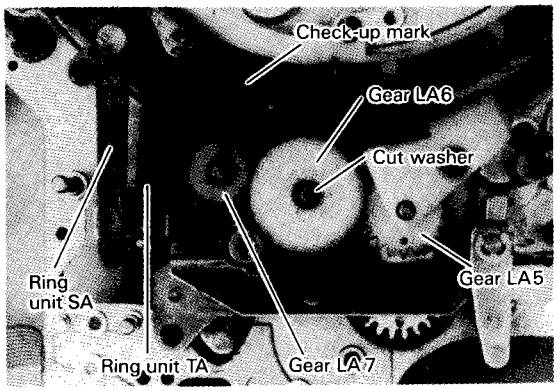


Fig.3 − 21 − 4

4-21-7 Attaching the cam gear SL and SS

(1) Attach the cam gear SL and SS to the main plate so that the check-up marks are fitted respectively, then fix with the cut washer. (See Fig. 3-21-5.)

4-21-8 Attaching slant arm

(1) While fixing the cam gear SL and SS so as not to turn, attach the slant arm to the main plate keeping in contact with the left side of the shaft A slightly, then fix with the cut washer.

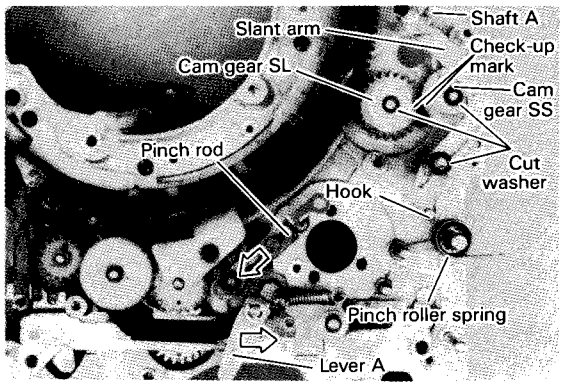


Fig.3 – 21 – 5

4-21-9 Attaching the pinch roller arm assembly

(1) Slide the lever A and the pinch roller in arrow direction. (See Fig. 3-21-5.)

(2) Attach the pinch roller spring so that one end (shorter one) is hooked onto the main plate.

(3) Attach the pinch roller arm assembly to the main plate so that the other end (longer one) of the pinch roller spring is hooked by the pinch roller arm assembly, then fix with the cut washer. (See Fig. 3-21-6.)

(4) Attach the pinch rod to the pinch roller arm assembly, and fix with the cut washer.

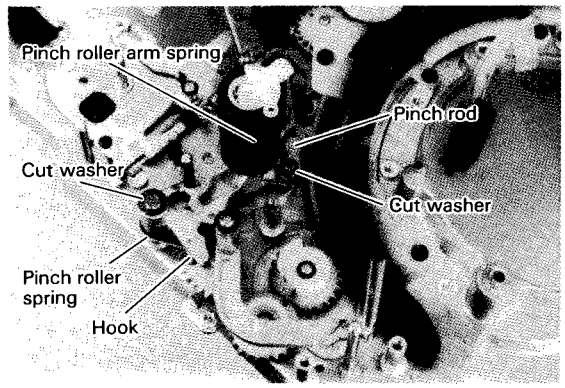


Fig.3 – 21 – 6

4-21-10 Attaching the Takeup guide arm and Takeup guide gear

(1) Turn the cam gear SS clockwise to the point where the slant arm comes to a stop. (See Fig. 3-21-7.)

(2) Match the check-up marks on the cam plate assembly.

(3) Attach the spring RP to the main plate so that one end (horizontal side) is set on the hook (commonly used for the pinch roller spring) on the main plate. (See Fig. 3-21-8.)

(4) Attach the Takeup guide arm and the Takeup guide gear onto the main plate so that their check-up marks are fitted and the other end of the spring RP (vertical side) is hooked by the notch of the Takeup guide arm, then fix with the cut washer.

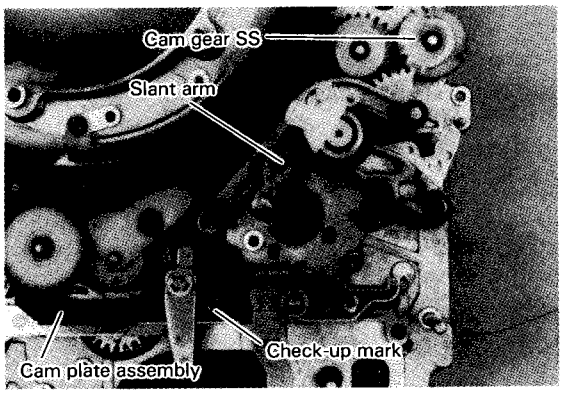


Fig.3 – 21 – 7

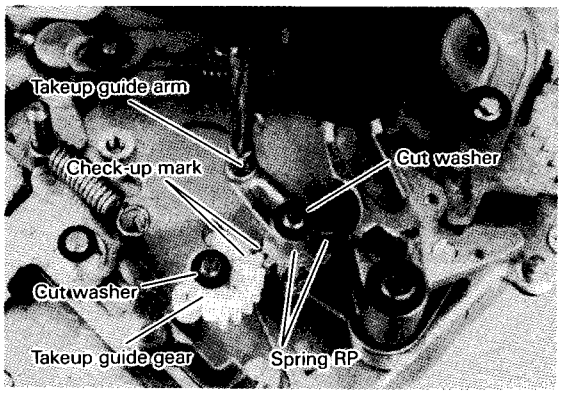


Fig.3 – 21 – 8

4-21-11 Attaching the supply & Takeup tape guide stopper

(1) Attach the supply tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓐ, ⓑ). (see Fig. 3-21-9.)

(2) Attach the Takeup tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓒ, ⓓ).

4-21-12 Attaching the supply & Takeup tape guide assembly

(1) By turning the gear LA5 clockwise, move the ring unit TA and SA to the position where the supply & Takeup tape guide assembly can be attached easily. (See Fig. 3-21-9.)

(2) Attach the supply & Takeup tape guide assembly to respective mounting pins.

(3) Slide the lever A to the right. (This is because the pinch rod connected to the pinch roller arm slides to the side of lever A when the tape guide assembly is set at the loading position.)

(4) Slide the lever B to the right to turn the Takeup guide arm clockwise. (This is because the pinch roller arm turns to the side of Takeup guide arm when the tape guide assembly is set at the loading position.)

(5) Turn the gear LA5 clockwise and set the supply & Takeup tape guide assembly onto respective tape guide stopper.

(6) Hold up the ring unit TA with a fine screw driver and fix the Takeup tape guide with the cut washer.

4-21-13 Attaching the guide slider assembly

(1) Attach the guide slider to the main plate, and fix with 6 fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ : Fig. 3-21-10).

(2) Attach the LED holder to the guide slider.

4-21-14 Attaching the set arm LL and SL

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode.

(2) Attach the set arm LL and SL to the main plate. (See Fig. 3-21-11.)

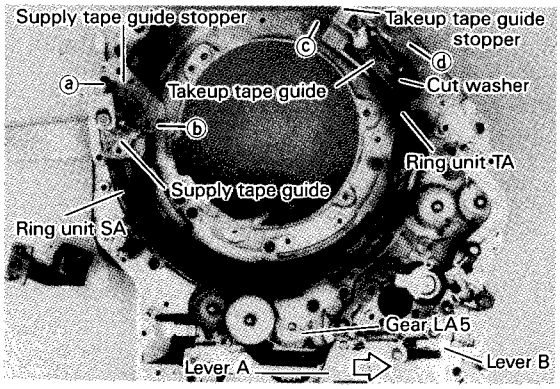


Fig.3 – 21 – 9

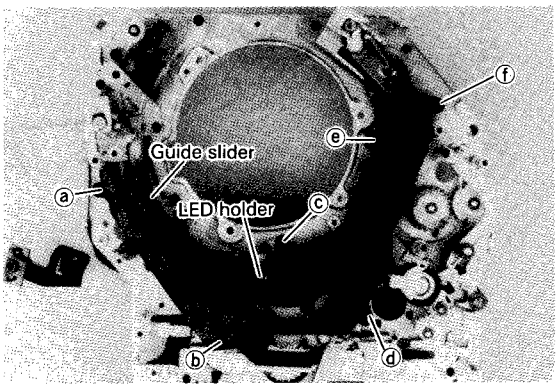


Fig.3 – 21 – 10

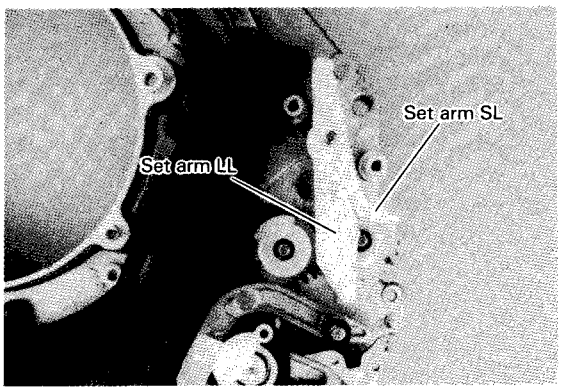


Fig.3 – 21 – 11

4-21-15 Attaching AC plate assembly

(1) Turn the gear LA5 clockwise to change the supply & Takeup tape guide to loading mode.

(2) Attach the AC plate assembly to the main plate and fix with 3 fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-21-12).

Note : Attach the fixing screws in the order of ⓒ, ⓐ, and ⓑ.

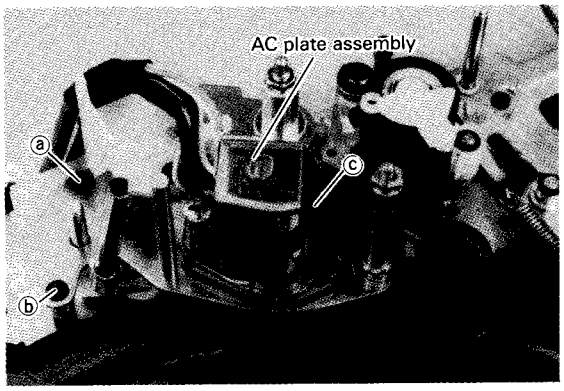


Fig.3 – 21 – 12

4-21-16 Attaching set arm SU LU, and spring AS

(1) Attach the set arm SU, LU and the spring AS, then fix with the cut washer. (See Fig. 3-21-13.)

Note : Attach them so that the top end of the set arm SU goes into the notch at the top of the set arm SL.

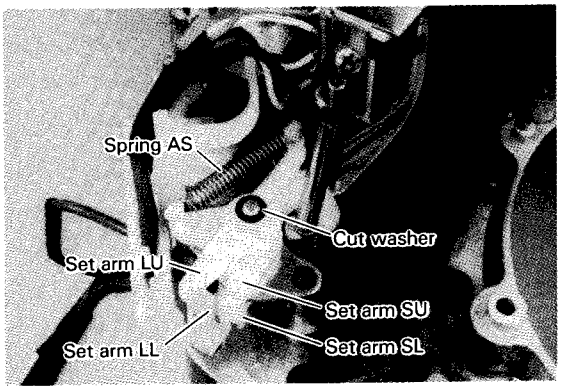


Fig.3 – 21 – 13

4-21-17 Attaching FE head and supply impedance roller

(1) Attach the FE head arm assembly to the main plate. (See Fig. 3-21-14.)

(2) Attach the IMP washer to the main pate in a manner that the bottom of the IMP washer goes into the positioning hole on the main plate.

(3) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, and tighten the nylon nut softly.

(4) Set one end of the FE spring onto the IMP washer and the other end onto the FE head arm.

(5) Mount the master plane.

(6) Put a square for height measurement (supply impedance roller measuring side : S mark) onto the master plane. (See Fig. 3-14-3, Page 55.)

(7) Slide the height measuring portion of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of the measuring parts) and higher than B point (lower one of the measuring parts) (See Fig. 3-21-15.)

(8) If the result of above check isn't favorable, adjust the height by turning the nylon nut.

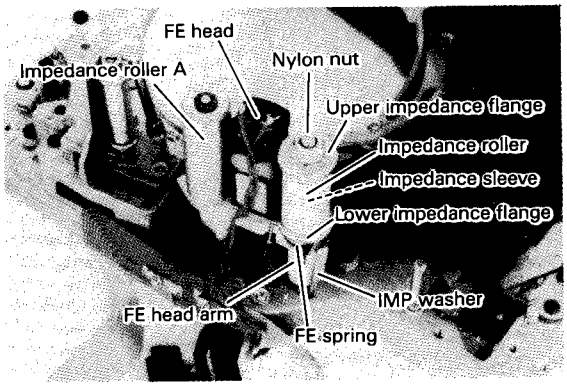


Fig.3 – 21 – 14

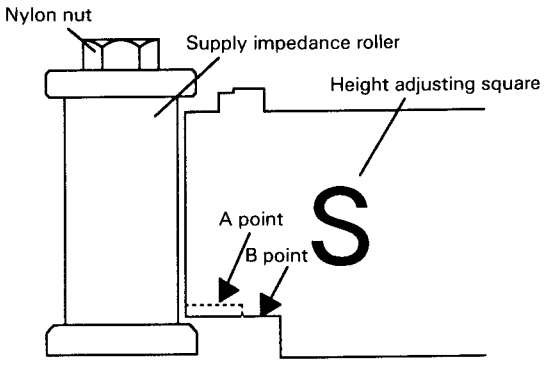


Fig.3 – 21 – 15

4-21-18 Attaching tension arm assembly

(1) Attach the thrust washer to the tension arm assembly (arm side) mounting shaft. (See Fig. 3-21-16.)

(2) Attach the tension arm assembly to the main plate so that the positioning hole of the tension arm assembly (adjusting side) matches the positioning pin of the main plate, then fix with the fixing screw.

4-21-19 Attaching brake S

(1) Make sure that braking performance isn't lowered by any oil deposited onto the face of the brake S which comes in contact with the reel disk.

(2) Attach the brake S onto the main plate and fix with the cut washer. (See Fig. 3-21-16.)

4-21-20 Attaching tension spring and spring S

(1) Attach the tension spring to both ends of the tension arm assembly (arm side and adjusting side). (See Fig. 3-21-16.)

(2) Attach the spring S to the brake S and the tension arm assembly (adjusting side).

4-21-21 Attaching supply reel disk

(1) Attach the thrust washer to the reel disk mounting shaft. (See Fig. 3-21-16.)

(2) Move the brake S in arrow direction and turn the tension arm clockwise by about 90°.

(3) Attach the reel disk to the reel disk mounting shaft.

(4) Make sure that the reel disk turns smoothly while the brake S and the tension arm are being moved.

(5) Mount the master plane.

(6) Place the square for height adjustment (reel disk measuring side : REEL-M mark) onto the master plane.

(7) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of the measuring parts) and doesn't turn at B point (lower one of the measuring parts). Check it in two directions of X-axis and Y-axis.

(8) If the result of the above check isn't favorable, adjust by changing number of the thrust washers (Parts No. 552C001020) attached under the reel disk.

(9) Fix the reel disk with the cut washer.

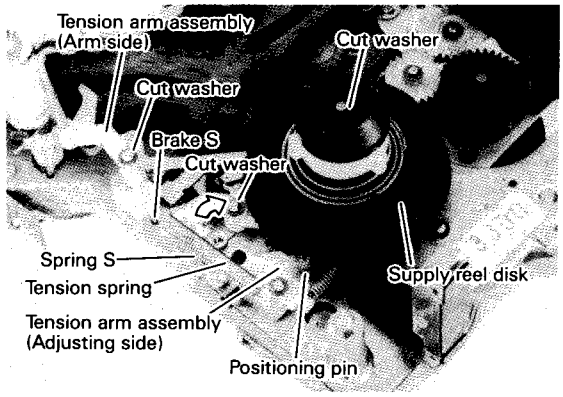
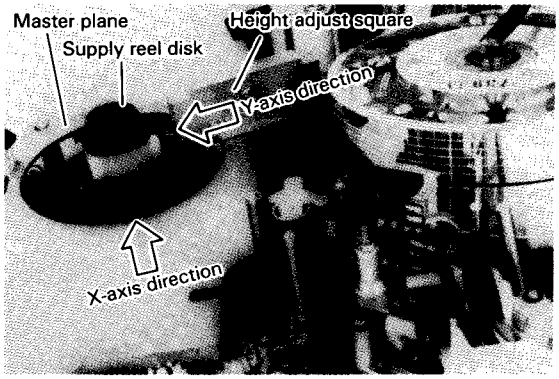


Fig.3 – 21 – 16



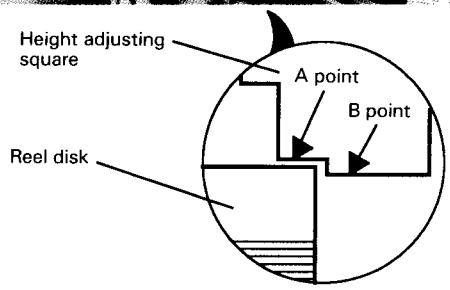


Fig.3 – 21 – 17

4-21-22 Attaching reel gear lock unit

(1) Move the arm in arrow direction a little. (See Fig. 3-21-8.) This is to prevent the small gear of the reel gear lock unit from coming in contact with the stopper when it is connected to the arm.

(2) Attach the reel gear lock unit to the main plate in a manner that the bottom of the small gear mounting shaft of the reel gear lock unit goes into the notch on the arm of the cam plate assembly, then fix with the fixing screw.

4-21-23 Attaching reel gear A

(1) Attach the thrust washer to the reel gear A mounting shaft. (See Fig. 3-21-19.)

(2) Move part ⓐ of the cam plate assembly in arrow direction a little, attach the reel gear A onto the main plate so that the lower side gear of the reel gear A is meshed with the small gear of the reel lock unit, then fix with the cut washer.

4-21-24 Attaching gear TU1-A

(1) Attach the thrust washer to the gear TU1-A mounting shaft. (See Fig. 3-21-19.)

(2) Attach the gear TU1-A onto the main plate in a manner that the gear of the gear TU1-A is meshed with the gear of the reel gear A, then fix with the cut washer.

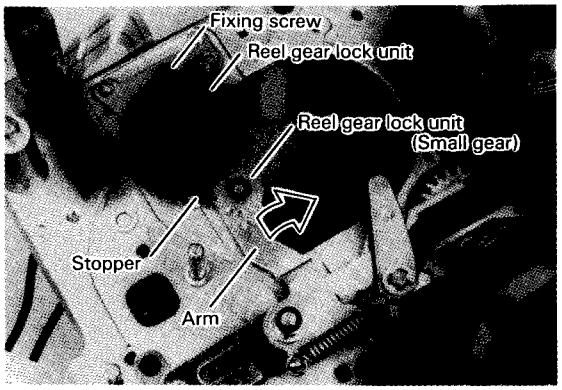


Fig.3 – 21 – 18

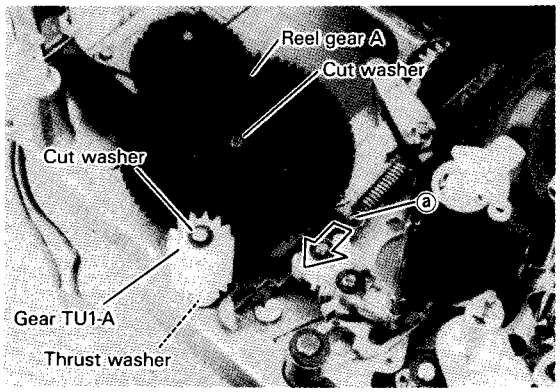


Fig.3 – 21 – 19

4-22 Positioning and attaching procedure of peripheral parts of main cam gear (rear side)

4-22-1 Attaching main cam gear and gear LA2

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode. (See Fig. 3-22-1.)

(2) Slide the lever A to left and match the check-up mark of the cam plate assembly.

(3) Attach the main cam gear onto the main plate so that the check-up mark on the main cam gear matches the check-up mark on the main plate, then fix with the cut washer. (See Fig. 3-22-2.)

(4) Attach the gear LA2 onto the main plate, and fix with the cut washer.

4-22-2 Attaching switch lever A and switch spring A

(1) Attach the switch lever A onto the main plate.

(2) Attach the switch spring A to the switch lever A and the PCB sensor (reel gear A rotary sensor).

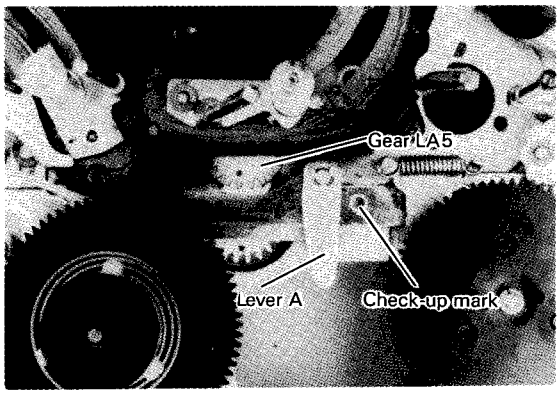


Fig.3 – 22 – 1

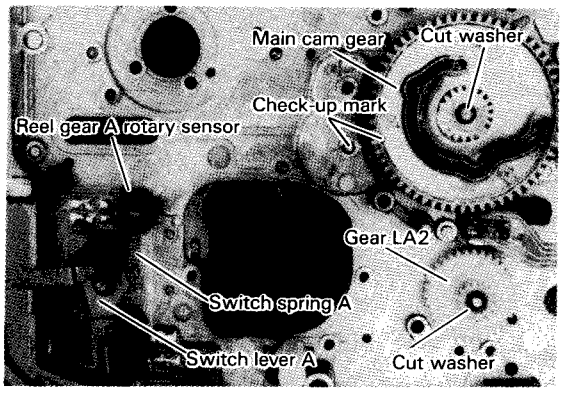


Fig.3 – 22 – 2

4-22-3 Attaching eject lever assembly

(1) Insert the mounting shaft of the eject lever assembly into the mounting hole on the main plate a little. (See Fig. 3-22-3.)

(2) Adjust position of the pin of the eject lever assembly so that the pin goes into the groove of the main cam gear.

(3) Adjust position of the left side mounting hole of the eject lever assembly, attach the assembly to the main plate, then fix with the cut washer.

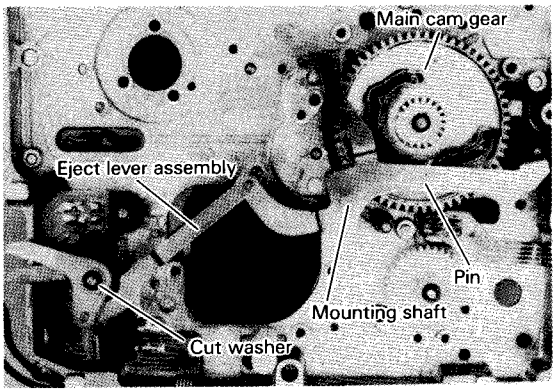


Fig.3 – 22 – 3

4-22-4 Attaching reel idler

(1) Attach the reel idler onto the main plate in a manner that two positioning holes match two positioning pins of the main plate, then fix temporarily with two fixing screws (ⓐ, ⓑ : Fig. 3-22-4).

4-22-5 Attaching loading motor assembly

(1) Attach the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate.

(2) Fix the loading motor assembly with the fixing screw ⓒ (Fig. 3-22-4) and the cut washer (see Fig. 3-22-5).

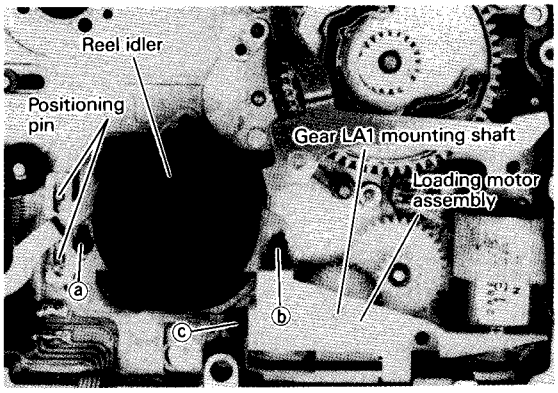


Fig.3 – 22 – 4

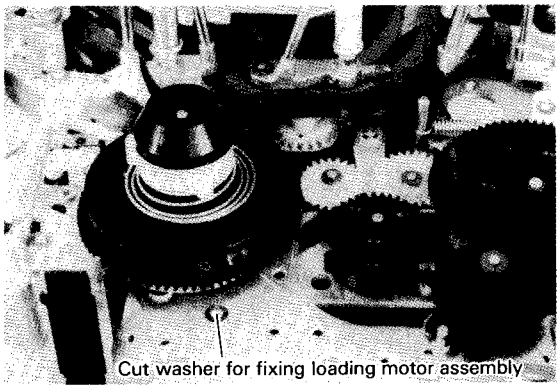


Fig.3 – 22 – 5

4-22-6 Attaching gear LA3

(1) Attach the gear LA3 to the main plate and fix with the cut washer (Fig. 3-22-6).

Note : It can be attached easily by moving the main cam gear a little.

4-22-7 Attaching capstan motor

(1) Attach the capstan motor to the main plate from the rear side of the plate. (See fig. 3-22-6.)

(2) From the front side of the main plate, fix the capstan motor with 3 fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-22-7) while holding the capstan motor firmly.

4-22-8 Attaching SYNC belt

(1) Attach the SYNC belt to the capstan motor and the reel idler. (See Fig. 3-22-6.)

(2) Slide the reel idler in arrow direction to stop and fix with two fixing screws (ⓐ, ⓑ : Fig. 3-22-6).

4-22-9 Attaching capstan brake

(1) Attach the capstan brake to the main plate so that the positioning pin matches the positioning hole on the main plate, and fix with the fixing screw ⓐ (Fig. 3-22-8).

4-22-10 Attaching mode switch

(1) Match the check-up mark of the mode switch. (See Fig. 3-22-9.)

(2) Perform fine adjustment by turning the gear of the mode switch to the following conducting state between the common terminal of the mode switch and each terminal while checking with a tester.

Note : Use a tester of ×1000 range.

P0 ..... Conducting
P1 ..... Conducting
P2 ..... Open
P3 ..... Conducting

(3) Attach the mode switch onto the main plate so that the gear is geared with the gear (centre side) of the main cam gear while paying attention so as not turn the mode switch gear, and fix with two fixing screws (ⓑ, ⓒ : Fig. 3-22-8)

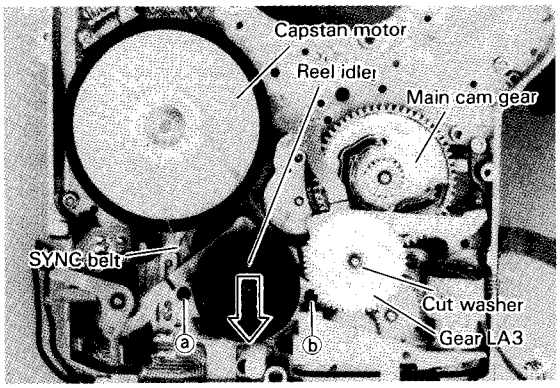


Fig.3 – 22 – 6

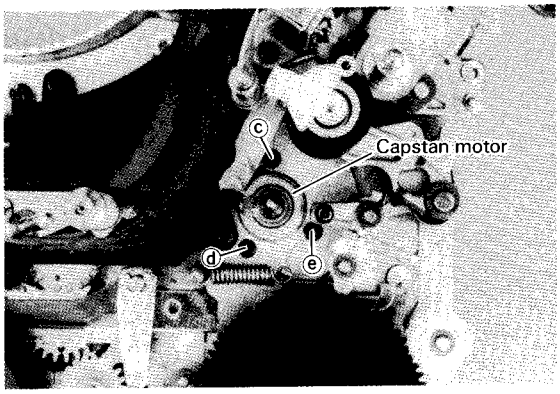


Fig.3 – 22 – 7

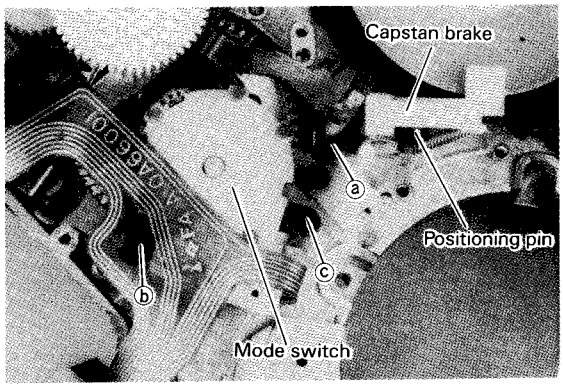


Fig.3 – 22 – 8

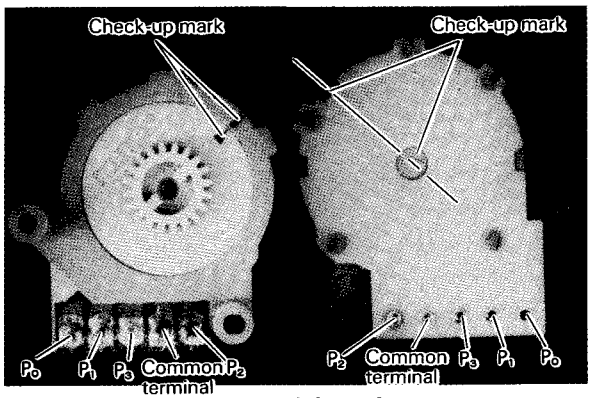


Fig.3 – 22 – 9

4-22-11 Attaching cam gear hold plate and eject lever hold plate

(1) Match the positioning pin of the cam gear hold plate to the positioning hole on the main plate.

(2) Turn the cam gear hold plate counter-clockwise around the positioning pin to attach onto the main plate, then fix with the fixing screw ⓐ (Fig. 3-22-10).

(3) Attach the eject lever hold plate onto the main plate, and fix with the fixing screw ⓑ (Fig. 3-22-10).

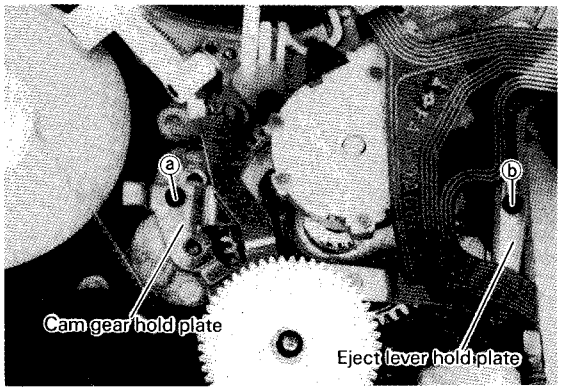


Fig.3 – 22 – 10

5. ADJUSTMENT

Note : Refrain from operating the eject lever while keeping a cassette tape inserted into the cassette housing and keeping the deck under loading mode.

5-1 rear tension & tension pole position adjustment

Before starting adjustment, keep a self-recording tape for a couple of minutes to warm up the reel disk and the travel system.

(1) Turn to playrear mode.
(2) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(3) If the result of the above checking isn't favourable, adjust position by turning the tension pole position adjust screw.
(4) Set a rear tension measuring jig and change the mode to playrear.
(5) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(6) After making sure that the tape runs in stable condition, read the indication on the rear tension measuring jig and make sure that the reading is within the specified range, 27±3g-cm.
(7) If the reading is outside the specified range, change the tension spring and check again.
(8) Make sure that the tape runs under stable condition and indication on the rear tension measuring jig varies only within the range of 4g-cm.
(9) If rear tension varies beyond the range of 4g-cm, the cause is deflection or flaw on the reel desk or others. Check and repair the defective unit.
(10) After completing adjustment, apply thread-lock to the tension pole position adjust screw.

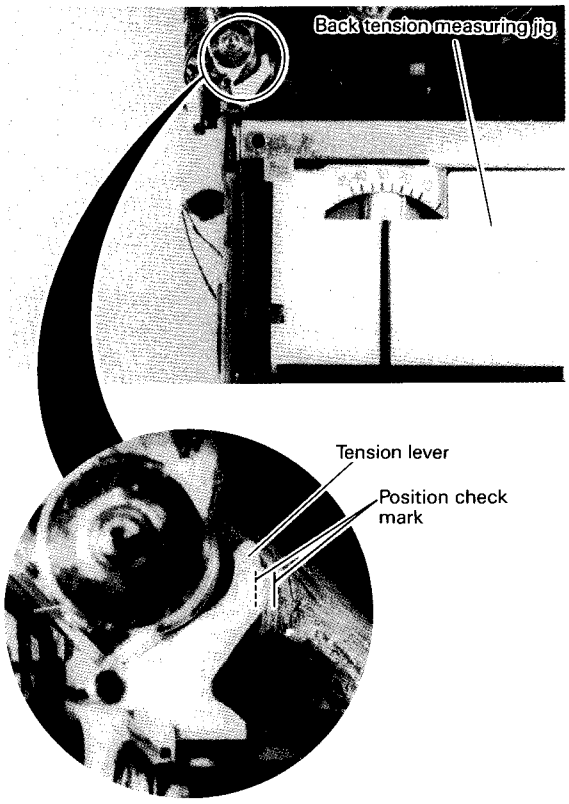


Fig.4 − 1 − 1

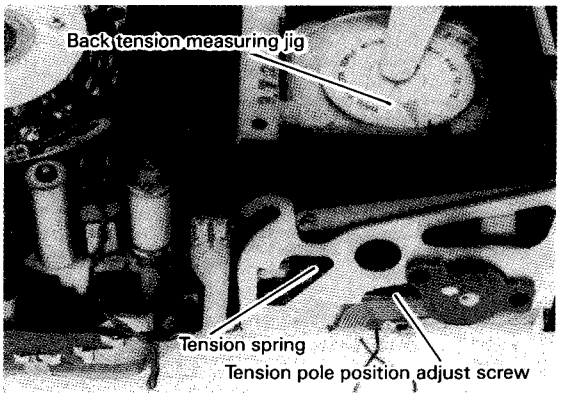


Fig.4 − 1 − 2

5-2 Tape run system and deck motion checking and adjustment

Note : Please clean the deck prior to this adjustment.

5-2-1 Checking tape loading motion

(1) Make sure that the lower end of the tape is not damaged or by the head tip, when loading and unloading are repeated at the tape read unit.

5-2-2 Playrear mode check

(1) Supply impedance roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the lower flange, and the tape shall be free from any folding or crease.

(2) Supply guide roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the upper flange, yet the tape must be free from any folding or crease.

(3) Around tape lead inlet
The tape lead unit shall be free from any riding on, gap, folding, or crease of the tape, and the tape shall not be catched by the head tip. If the tape runs above the drum lead path, a "pit-a-pat" sound is generated because the video head catches the tape edge.

(4) Around tape lead outlet
The tape lead unit shall be free from any riding on, gap, folding or crease of the tape.

(5) Takeup guide roller
There shall be a gap between the tape and the lower flange, no gap between the tape and the upper flange, yet the tape shall be free from any folding or crease.

(6) Takeup guide pole
There shall be a gap between the tape and the upper flange, no gap between the tape and the lower flange, yet the tape shall be free from any folding or crease.

(7) Takeup guide arm
there shall be a gap allowed to the tape at the point of the upper flange and of the lower flange.

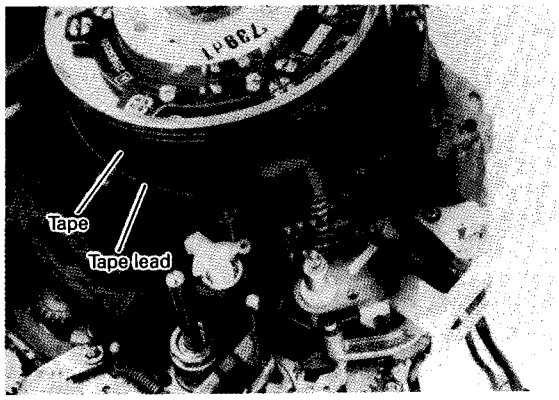


Fig.4 – 2 – 1

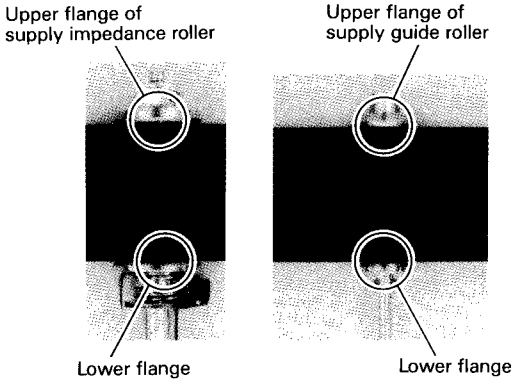


Fig.4 – 2 – 2

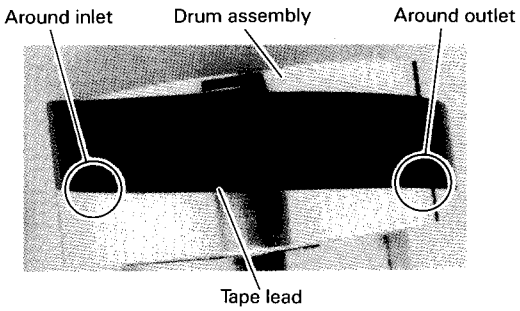


Fig.4 – 2 – 3

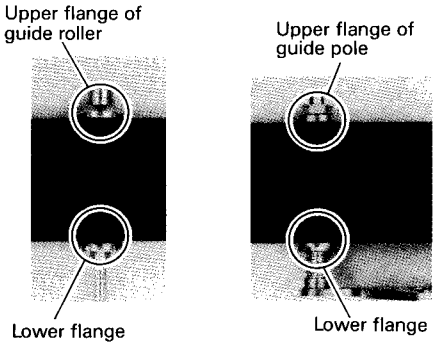


Fig.4 – 2 – 4

5-2-3 AC head rough adjustment

(1) Playrear a self-recording tape.

(2) Check running condition of the tape near the Takeup guide pole.

(3) Adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4-2-6) so that a gap is provided between the tape and the upper flange and no gap is allowed between the tape and the lower flange, and that any fold mark or crease is eliminated from the tape.

Note : When the AC head inclination adjust screw ⓐ is turned, azimuth of the AC head changes. To adjust inclination of AC head, it is necessary to correct azimuth by turning the azimuth adjust screw ⓑ. (See Fig. 4-2-6.)

A) If tape position is high to the Takeup guide pole, turn the AC head inclination adjust screw ⓐ (Fig. 4-2-6) clockwise to adjust the position.

B) If tape position is low to the Takeup guide pole, turn the AC head indlination adjust screw ⓐ (Fig. 4-2-6) counter-clockwise to adjust the position.

(4) While checking visually, adjust height of the AC head by turning the nut ⓒ (Fig. 4-2-6) to the extent that the audio head upper edge of the AC head is slightly seen above the tape upper edge (0.1mm max. : Fig. 4-2-7).

(5) After completing above adjustment, proceed to AC head adjustment (azimuth adjustment in particular).

(6) After repeating loading and unloading of the tape, make sure there is a gap allowed between the tape and the upper flange of the Takeup guide pole and no gap is allowed between the tape and the lower flange, and that the tape is free from any folding or crease.

(7) If the result of the above check isn't favourable, repeat procedure from (2) to (6) above.

Note : If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-2-6) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

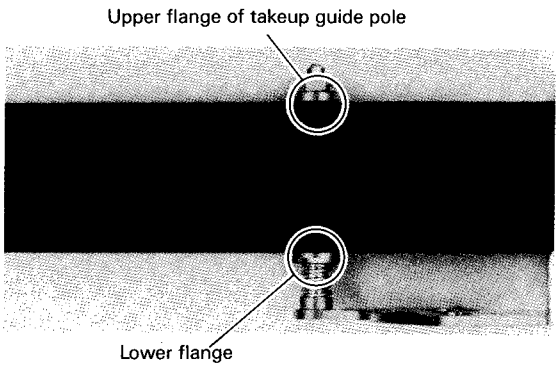


Fig.4 – 2 – 5

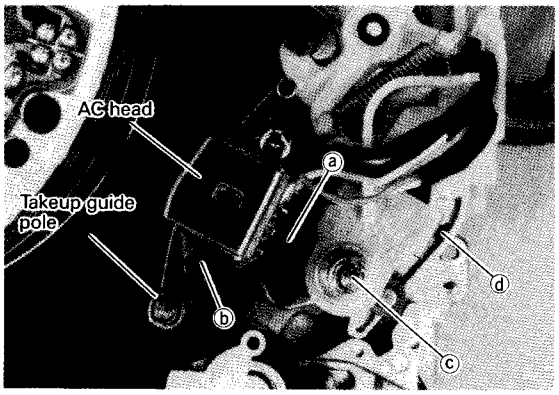


Fig.4 – 2 – 6

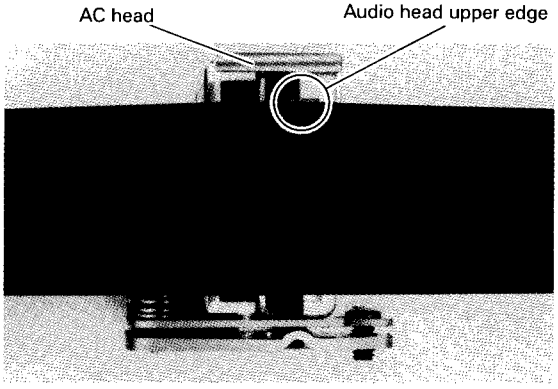


Fig.4 – 2 – 7

5-3 Guide roller height adjustment

Note : Checking and adjustment of the tape run system shall have been practiced prior to this height adjustment.

(1) Play rear staircase (2H mode) of the alignment tape.

(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (- slope) by TP5A.

(3) Turn the tracking to manual mode, and make sure that amplitude level of FM waveform at the supply side (left side of waveform), centre, and Takeup side (right side of waveform) changes synchronizing eadh other when the amplitude level of FM waveform (centre) is changed repeatedly from the maximum to the minimum.

(4) If the result of the above confirmation isn't favourable, adjust guide roller height according to the following instructions.

(5) Observe FM waveform at the supply side and the Takeup side.

If variation of amplitude level of the waveform delays to the waveform centre, the guide roller height is low. Adjust the height by loosening the set screw to the degree that the guide roller turns easily, and by turning the guide roller counter-clockwise.

If variation of amplitude level of the wave form preceeds the waveform centre, the guide roller height is high. Adjust the height by loosening the set screw to the degree that the guide roller turns easily and by turning the guide roller clockwise.

Note : In adjusting guide roller height, pay attention to following points;

To turn the guide roller little by little.

To refrain from turning the guide roller more than ± 180°.

(6) After completing height adjustment of the guide roller, tighten the set screw.

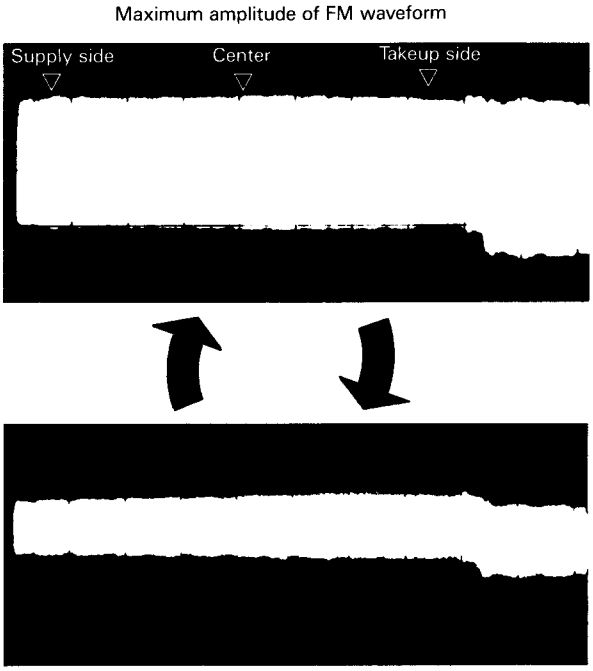


Fig.4 – 3 – 1

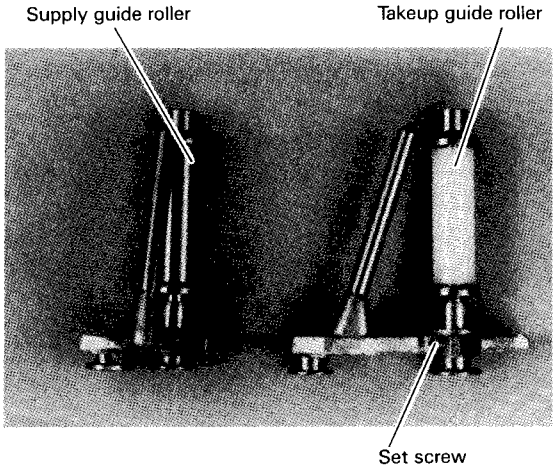


Fig.4 – 3 – 2

5-4 AC head adjustment

5-4-1 AC head height adjustment

(1) Play rear an alignment tape (6KHz audio signal).

(2) Connect an oscilloscope to the audio out terminal.

(3) Adjust amplitude level of audio out signal to the maximum by turning the AC head height adjust nut ⓒ (Fig. 4-4-2).

5-4-2 AC head inclination adjustment

(1) Playrear a self-recording tape.

(2) Check tape run condition near the Takeup guide pole.

(3) By turning the AC head inclination adjust screw ⓐ (Fig. 4-4-2), adjust head inclination so that a gap is allowed between the tape and the upper flange, no gap is allowed between the tape and the lower flange, and any fold mark or crease is eliminated from the tape.

Note : Azimuth of the AC head changes when the AC head inclination adjust screw ⓐ (fig. 4-4-2) is turned. Accordingly, adjust inclination while turnng the azimuth adjust screw ⓑ (Fig. 4-4-2) and correcting azimuth by visual check.

If position of the tape is low to the Takeup guide pole, adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4-4-2) counter-clockwise.

5-4-3 AC head azimuth adjustment

(1) Connect an oscilloscope to the audio output terminal.

(2) Playrear an alignment tape (6KHz audio signal). After completing the adjustment, apply thread lock to the adjust screw. Be careful so that no thread lock is deposited onto the tape run system.

(3) Turn the screw ⓑ (Fig. 4-4-2) for A/C head azimuth adjustment so that the audio output level is maximum.

Note : If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-4-2) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

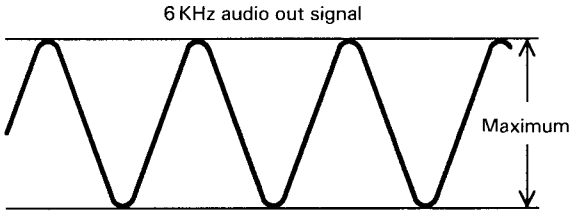


Fig.4 − 4 − 1

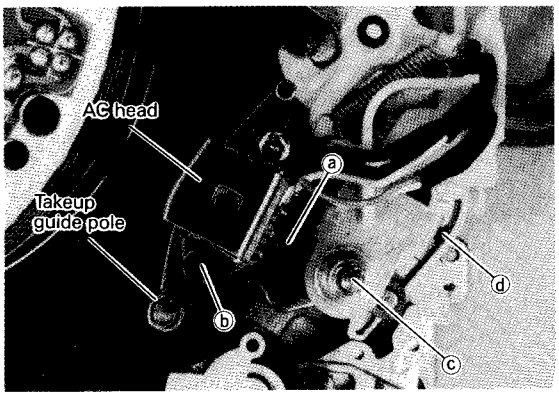


Fig.4 − 4 − 2

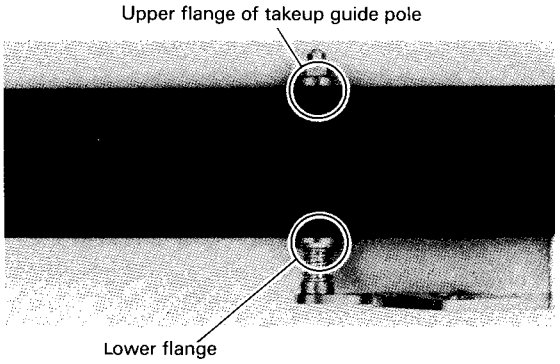


Fig.4 − 4 − 3

5-5 Phase adjustment

(1) Playrear staircase (2H mode) of an alignment tape.
(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (- slope) by TP5A.
(3) Connect TP-5B on the main board to GND, and keep tracking forcefully at preset mode.
(4) Turn the phase adjust screw ⓓ (Fig. 4-5-1) clockwise to tighten softly.
(5) Turn the phase adjust screw ⓓ (Fig. 4-5-1) counter-clockwise to adjust FM waveform amplitude level to the point next to the maximum.
(6) Release forced preset mode of tracking.
(7) Turn tracking to manual mode and adjust FM waveform to the maximum amplitude level.
(8) Make sure that the FM waveform amplitude level at tracking preset is equal to the maximum value of FM waveform amplitude level under manual mode.
(9) If the result of the above check isn't favourable, repeat adjustment from (3) to (8) above.
(10) After completing phase adjustment, shake the AC head assembly a little around the mounting shaft to make sure that audio output signal is maximum.
(11) If the result of the above checking isn't favourable, repeat adjustment of the AC head again.

Note : When the adjust screws ⓐ, ⓑ, ⓓ (Fig. 4-5-1) are used for the above adjustment, apply thread lock to the adjust screws at the end of the adjustment. Be careful, at that time, so that no thread-lock is deposited onto the tape run system.

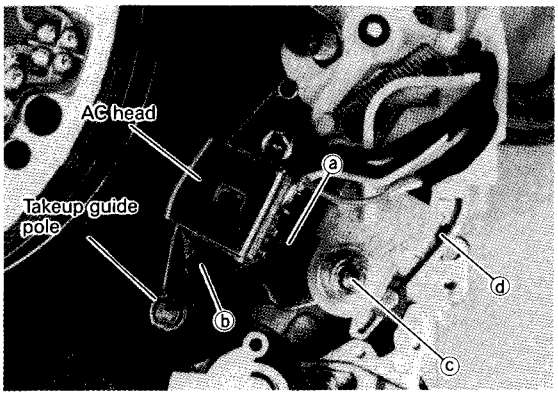


Fig.4 – 5 – 1

CHIP PARTS REPLACEMENT

Some resistors, shorting jumpers (0Ω resistor), ceramic capacitors, transistors and diodes are chip parts which are used for certain circuit elements. When replacing these parts, note the cautions as follows.

Cautions:

A. Use fine tipped, well insulated soldering pencil (iron) about 30 watts and the tweezers.
B. Melting the solder, remove the Chip Parts carefully not to tear off the copper foil of the printed circuit board.
C. Discard removed chips; do not reuse them.
D. Do not apply heat for more than 3 seconds to the new chip Parts.
E. Avoid using a rubbing stroke when soldering.
F. Take care not to scratch when soldering, or damage the Chip Parts.
G. Supplementary cementing is not required.

1. Removal of chip Parts (Resistors, capacitors, etc.)

A. Grasp the part with tweezers. Melting the solder at both side alternately, remove the one side of the part with a twisting motion.
B. Melt the solder at the other side and remove the part.

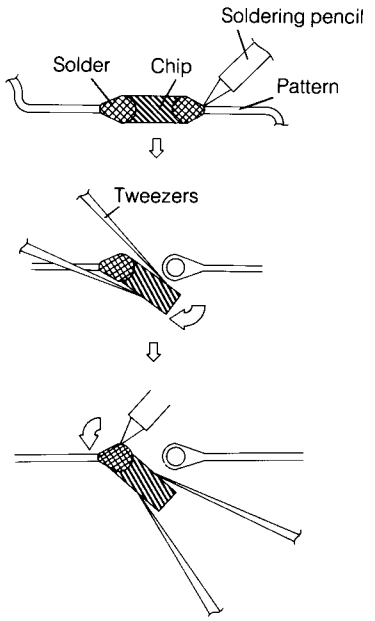


Fig. 1

2. Removal of Chip Parts (Transistors)

A. Melting the solder of one lead, Lift the side of that lead upward.
B. Simultaneously melt the solder of the two remaining leads and lift the part to remove.

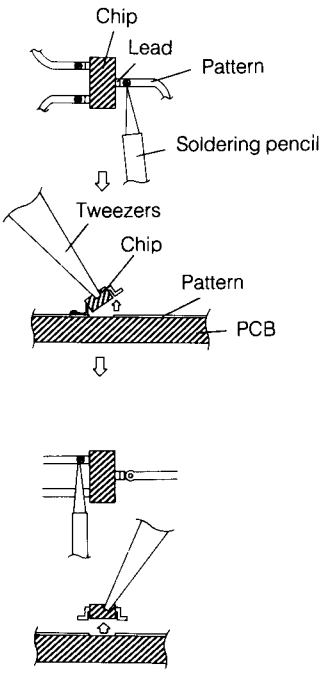


Fig. 2

3. Replacement

A. Presolder the contact points of the circuit pattern.
B. Press the part downward with tweezers and apply the soldering pencil as shown in the figure.

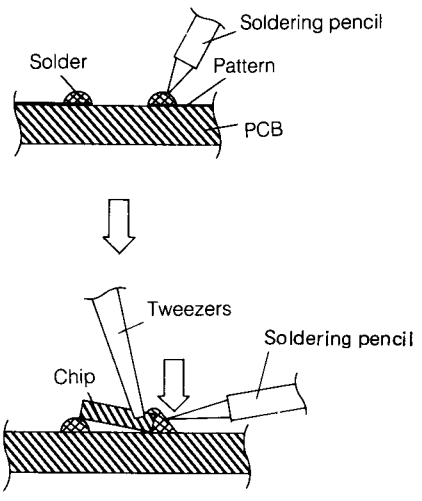
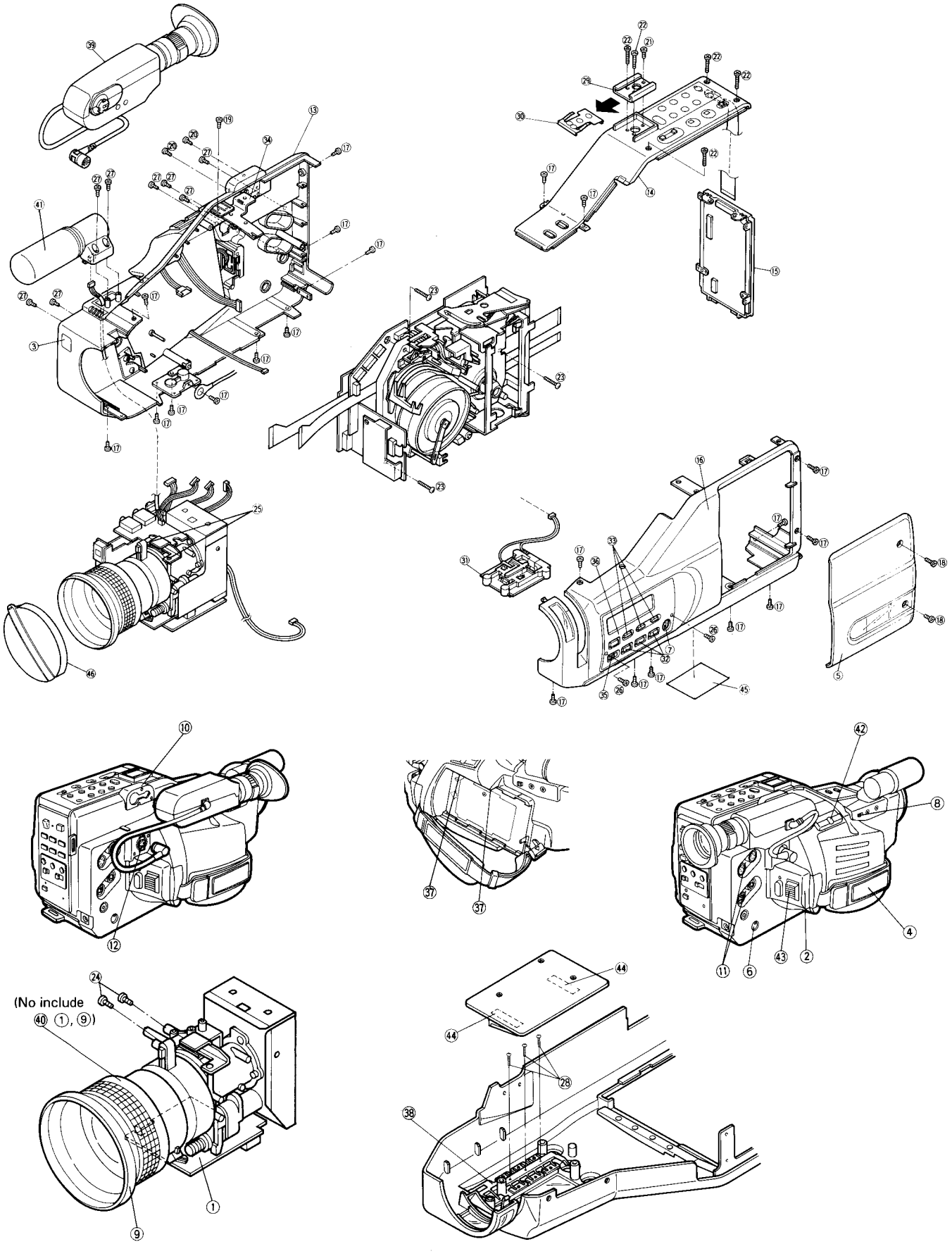


Fig. 3

PARTS LIST

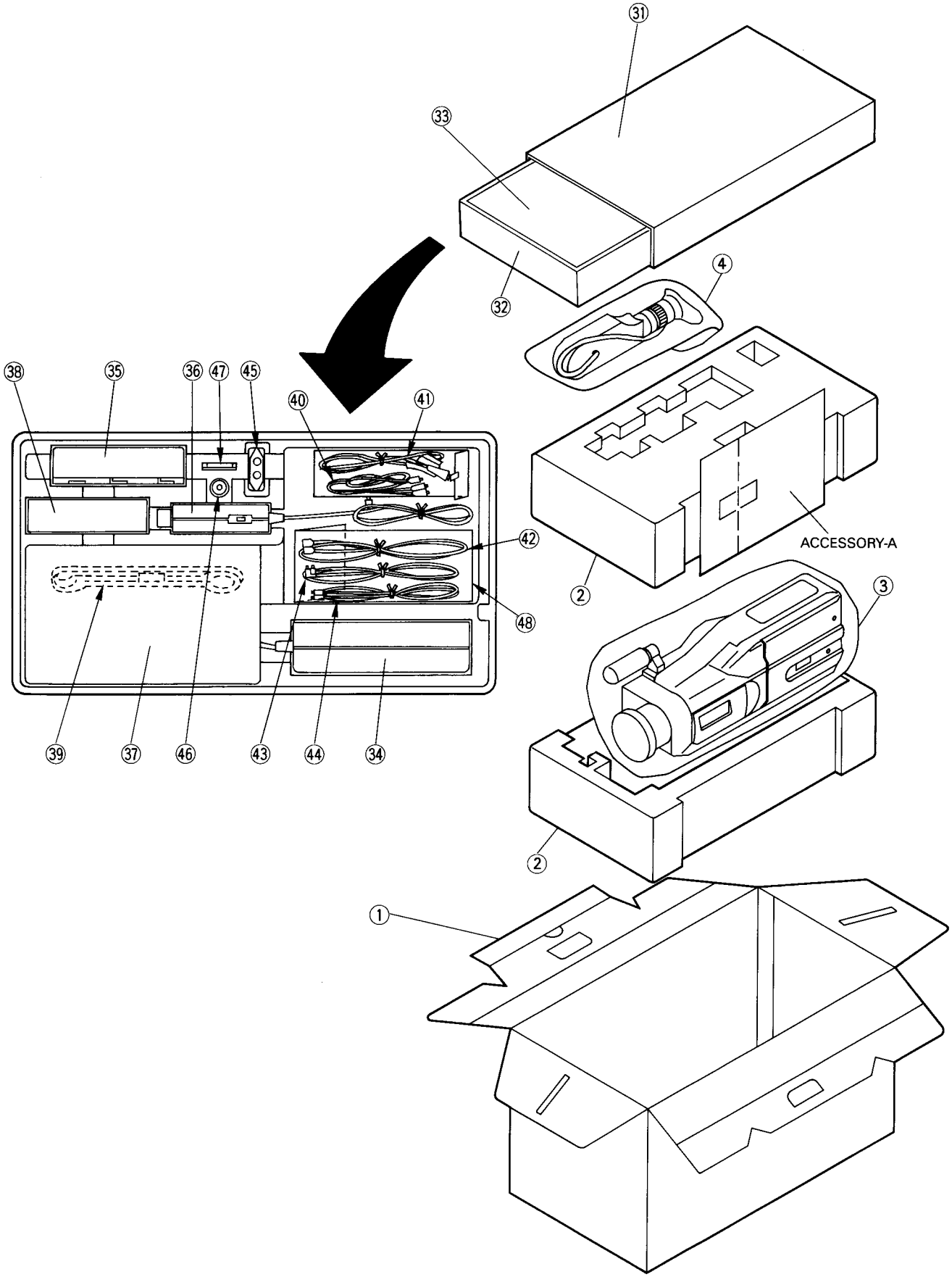
1. Cabinet Assembly



○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			CABINET ASSEMBLY	
○	1	939P291020	AF UNIT	
○	2	761C359020	TRIGGER COVER	
○	3	761D605010	FILTER-WB	
○	4	772C012020	BELT GRIP	
○	5	702B666030	CASSETTE HOUSING PANEL	
○	6	734D471010	ADJUST KNOB	
○	7	734D463010	IRIS KNOB	
○	8	734D465010	WINDOW SHUTTER KNOB	
○	9	761C365010	LENS HOOD	
○	10	761C353010	EVF SHOE	
○	11	440B093030	TERMINAL BOARD	
○	12	761C357010	EVF TERMINAL	
○	13	701B173030	LOWER CASE UNIT	
○	14	939P304030	CAMERA SW UNIT	
○	15	939P305030	VTR SW UNIT	
○	16	701B174030	UPPER CASE UNIT	
○	17	669D372010	SCREW	M2X4
○	18	669D317030	SCREW	M2X0.4-5
○	19	669D321010	SCREW	M2X0.4-4
○	20	669D321020	SCREW	M2X0.4-10
○	21	669D321040	SCREW	(10P)
○	22	669D321070	SCREW	M2X0.4-12
○	23	669D319030	SCREW	2.6X16
○	24	669D322020	SCREW	2.6X8
○	25	669D322050	SCREW	2X6
	26	669D322060	SCREW	2X6
○	27	669D322080	SCREW	2X8
○	28	669D322090	SCREW	
○	29	596D183010	ADAPTOR SHOE	
○	30	572D376010	SPRING SHOE	
○	31	701B175010	BACK UP BATTERY UNIT	
○	32	704C691010	CAMERA BUTTON	
○	33	704C692010	COUNTOR BUTTON	
○	34	596D182010	CASE HOLDER	
○	35	734D464010	SLIDE KNOB	
○	36	702B673030	SIDE PANEL	
○	37	572D372010	BATTERY PLATE	
○	38	592C863010	SIDE SPRING	
○	39	939P315010	EVF UNIT	
○	40	490P047010	LENS UNIT	
○	41	485P012010	MICROPHONE UNIT	
○	42	439P022010	ZOOM UNIT	
○	43	734C006010	CAMERA SLIDE KNOB	
○	44	761D618010	LCD SUPPORTER	
○	45	851C964010	CAUTION LABEL-B	
○	46	702C853020	LENS CAP	

2. Packing Parts



○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			PACKING PARTS	
○	1	802C977010	PACKING CASE	HS-C40E
○	1	802C977020	PACKING CASE	HS-C40B
○	1	802C977030	PACKING CASE	HS-C40A
○	2	803A175010	PACKING CUSHION	
○	3	831D177050	PACKING BAG	
	4	831D198020	PACKING BAG	
			ACCESSORY – A	
○		871C892010	INSTRUCTION BOOK	HS-C40E
		831D181020	PACKING BAG	
○		871C878070	INSTRUCTION BOOK	
○		871C892020	INSTRUCTION BOOK	HS-C40E
			ASSY – ACCESSORY	
○	31	802C975010	ACCESSORY SLEEVE	HS-C40E
○	31	802C975020	ACCESSORY SLEEVE	HS-C40B
○	31	802C975030	ACCESSORY SLEEVE	HS-C40A
○	32	803A193010	ACCESSORY CUSHION	
○	33	802C974010	ACCESSORY SHEET	
○	34	939P320010	AC POWER ADAPTER	HS-C40E
○	34	939P320020	AC POWER ADAPTER	HS-C40B
○	34	939P320030	AC POWER ADAPTER	HS-C40A
○	35	939P301030	BATTERY PACK	
○	36	295P095010	RF CONVERTER UNIT	HS-C40A
○	36	295P090010	RF CONVERTER UNIT	HS-C40E, HS-C40B
○	37	471P059030	CASSETTE ADAPTER	
	38	---	C VIDEO CASSETTE	
○	39	772P013030	SHOULDER BELT	
○	40	264C083010	AV MONO CABLE	
○	41	264C084010	AV 21 CABLE	
○	42	242D231030	CABLE	1.5M
○	43	242C977030	DC CABLE	
○	44	242D335010	CABLE	
○	45	451C072010	AC JACK	HS-C40E
	46	---	BATTERY	
○	47	283P035020	BACKUP BATTERY	
○	48	831D252010	PACKING BAG	

3. ELECTRICAL PARTS

INTEGRATED CIRCUITS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
IC1	272P414010	IC	MN3761FS
IC0SA	263P216010	IC	MN5108
IC0SD	267P038020	IC	7P038-2
IC0SE	263P773010	IC	μPD6147G
IC0SJ	267P056020	IC	B092-2
IC201	266P023030	IC	AN3311S
IC2AA	272P203010	IC	NJM3414M
IC2AB	272P355010	IC	AN2153S
IC2AC	272P364010	IC	NJM2406F
IC2AD	263P223010	IC	SC14S01F
IC2AF	267P057020	IC	B093-2
IC2AG	272P204010	IC	LM2904M
IC2AJ	272P209010	IC	AN2020S
IC2AK	267P070010	IC	7P070
IC2AL	272P204010	IC	LM2904M
IC2D0	272P368010	IC	M51294FP
IC2JA	266P041010	IC	HA11776AMP
IC2JB	263P223010	IC	SC14S01F
IC2JC	263P223010	IC	SC14S01F
IC2JD	263P222010	IC	MN67621F
IC2JE	263P220010	IC	SC7SU04F
IC2JH	263P223010	IC	SC14S01F
IC2JK	263P223010	IC	SC14S01F
IC2JL	267P055020	IC	B091-2
IC2JM	263P220010	IC	SC7SU04F
IC2P0	267P069030	IC	KIC-PIP(B103-3)
IC2S0	272P372010	IC	NJM2244M
IC2S1	272P372010	IC	NJM2244M
IC2S2	272P402020	IC	NJM2243M
IC2001	267P054020	IC	MV-1045-2
IC2002	267P073010	IC	ADL-DP002M
IC2003	267P072030	IC	KIC-SUB-EMP(B104-3)
IC2004	272P317020	IC	M52054FP
IC2005	267P065030	IC	KIC-FM-EQ(B099-3)
IC301	272P375010	IC	BA7757BK
IC302	272P376020	IC	XRA15218F
IC3300	272P374010	IC	BA328F
IC400	272P297010	IC	BA6431F
IC420	272P367010	IC	M51795FP
IC421	266P419020	IC	M5223FP
IC450	272P299010	IC	BA6455FS
IC4A0	266P419020	IC	M5223FP
IC4A2	272P191010	IC	BA6109U2
IC4001	263P231010	IC	M60030-0111FP
IC4002	263P239010	IC	M5M5256VP-12LL
IC4003	272P366010	IC	LM311PS
IC4004	263P230010	IC	SC7S00F
IC5A0	263P286010	IC	M37405M5-106FP *
IC5A0	263P286020	IC	M37405M5-113FP *
IC5A1	263P677020	IC	TC4077BF
IC5A2	272P186010	IC	LM393M
IC5FA	272P354010	IC	NJM2225M
IC5FB	263P223010	IC	SC14S01F
IC601	272P331020	IC	HA118116MA
IC602	272P332020	IC	HA118117FP
IC603	272P231020	IC	HA118054FP
IC604	272P371010	IC	NJM2234M
IC7AA	263P294010	IC	M37450M4-108FP
IC7AB	272P079010	IC	NJM2902M
IC7AC	272P079010	IC	NJM2902M
IC7AR	272P357010	IC	RST529C
IC7BA	263P215010	IC	MC74HC4051F
IC7WB	267P058020	IC	B094-2
IC7ZC	272P186010	IC	LM393M
IC7ZM	272P358010	IC	TK10500
IC8A1	263P236010	IC	M34200M4-123FP
IC8000	263P287010	IC	
IC8001	263P677020	IC	TC4077BF
IC8002	263P653010	IC	TC4053BF
IC8700	263P285010	IC	
IC8701	263P233010	IC	RTC-4503
IC8702	272P362010	IC	S-8054ALB-LM-T1
IC8703	272P359010	IC	S-81215AG-RK-T1/RH5R
IC900	272P298010	IC	BA6149LS
IC901	272P300010	IC	UN102
IC950	266P419020	IC	M5223FP
IC952	272P186010	IC	LM393M
IC980	272P360010	IC	S-81250HG-RD-T1

TRANSISTORS

Q 0SA	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SB	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 0SC	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SD	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 0SE	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SF	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SL	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SM	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 201	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 202	260P857010	CHIP TRANSISTOR	DTC144EU
Q 203	260P857010	CHIP TRANSISTOR	DTC144EU
Q 204	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 205	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 206	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 211	260P856010	CHIP TRANSISTOR	DTA144EU
Q 212	260P857010	CHIP TRANSISTOR	DTC144EU
Q 213	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 214	260P857010	CHIP TRANSISTOR	DTC144EU
Q 215	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 216	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 217	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 218	260P855020	CHIP TRANSISTOR	2SC4081-R
Q 219	260P855020	CHIP TRANSISTOR	2SC4081-R
Q 220	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 221	260P859020	CHIP TRANSISTOR	2SA1576-R

* Interchangeable (Upper ◀▶ Lower)

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 222	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 223	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 224	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 225	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 226	260P857010	CHIP TRANSISTOR	DTC144EU
Q 227	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 228	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 229	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 230	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 231	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 241	260P857010	CHIP TRANSISTOR	DTC144EU
Q 242	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2AA	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AC	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AD	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AE	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AG	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AH	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AJ	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AK	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AL	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AM	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AN	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AP	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AQ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AR	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AW	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AX	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AY	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AZ	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2D0	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2D1	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2D2	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2G0	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GB	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2GC	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2GD	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2GE	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2GF	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GG	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2JA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JC	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2JE	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JK	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2JL	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JW	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2JZ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KA	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2KB	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KC	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KD	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KE	260P863010	CHIP TRANSISTOR	IMT1
Q 2KF	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KG	260P854030	CHIP TRANSISTOR	2SC4098-Q

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2KJ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KK	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KL	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2L0	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2L1	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2P0	260P843010	CHIP TRANSISTOR	FMS1
Q 2P1	260P843010	CHIP TRANSISTOR	FMS1
Q 2S0	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S1	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S2	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S3	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2S4	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2S5	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2ZA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2ZB	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2ZC	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2ZD	260P863010	CHIP TRANSISTOR	IMT1
Q 2ZE	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2004	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2005	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2009	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2011	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2012	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2013	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2014	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 2015	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2016	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2017	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2032	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2033	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2034	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2036	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2038	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2101	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2102	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2103	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 2104	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2105	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 2109	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2110	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2201	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2202	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2401	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 2402	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 2403	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 2404	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2405	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2406	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2407	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2408	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2409	260P856010	CHIP TRANSISTOR	DTA144EU
Q 301	260P856010	CHIP TRANSISTOR	DTA144EU
Q 302	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 303	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 304	260P851010	CHIP TRANSISTOR	IMD2/XN4312

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 305	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 306	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 307	260P867060	CHIP TRANSISTOR	2SD1949-R
Q 308	260P857010	CHIP TRANSISTOR	DTC144EU
Q 309	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 310	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 311	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 313	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 314	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 3AA	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 3BA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 3BB	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 400	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 420	260P855030	CHIP TRANSISTOR	2SC4081-S
Q 450	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 480	260P867050	CHIP TRANSISTOR	2SD1949
Q 4B0	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 4B1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4B2	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4C0	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 4C1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4F0	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 4F1	260P808010	CHIP TRANSISTOR	DTC114EK
Q 4001	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 571	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 572	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 5A0	260P855070	CHIP TRANSISTOR	2SD1819A-Q
Q 5A2	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 5A3	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 5A4	260P855070	CHIP TRANSISTOR	2SD1819A-Q
Q 5A5	260P859070	CHIP TRANSISTOR	2SB1218A-Q
Q 5B0	260P858010	CHIP TRANSISTOR	DTA114EU
Q 5B1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 601	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 602	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 603	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 604	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 606	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 607	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 608	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 609	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 610	260P857010	CHIP TRANSISTOR	DTC144EU
Q 611	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 612	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 613	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 614	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 615	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 616	260P856010	CHIP TRANSISTOR	DTA144EU
Q 617	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 618	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 7CA	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 7MA	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 7PA	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 7PB	260P857020	CHIP TRANSISTOR	DTC144EU
Q 8A1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 8A2	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8000	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 8002	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8003	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 8004	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8005	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 8006	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 8701	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8704	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8705	260P864010	CHIP TRANSISTOR	2SK209GR
Q 8706	260P802090	CHIP TRANSISTOR	2SA1235F, G
Q 8707	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8708	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 8709	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 8720	260P844010	CHIP TRANSISTOR	FMW1
Q 8721	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8722	260P856010	CHIP TRANSISTOR	DTA144EU
Q 8723	260P856010	CHIP TRANSISTOR	DTA144EU
Q 8724	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8725	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8726	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8727	260P859080	CHIP TRANSISTOR	2SB1218A
Q 900	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 901	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 902	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 930	260P802090	CHIP TRANSISTOR	2SA1235F, G
Q 931	260P845010	CHIP TRANSISTOR	IMX1
Q 932	260P865010	CHIP TRANSISTOR	2SD999-CK
Q 933	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 934	260P845010	CHIP TRANSISTOR	IMX1
Q 960	260P866010	CHIP TRANSISTOR	2SC3736-OK
Q 961	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 962	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 963	260P858010	CHIP TRANSISTOR	DTA114EU
Q 983	260P482010	CHIP TRANSISTOR	2SB798-DK

DIODES

D 0SC	264P814010	CHIP DIODE	DAP202U
D 0SD	264P814010	CHIP DIODE	DAP202U
D 0SE	264P815060	CHIP DIODE	RD5.1MB1
D 201	264P828010	CHIP DIODE	DAN202U
D 202	264P828010	CHIP DIODE	DAN202U
D 203	264P828010	CHIP DIODE	DAN202U
D 204	264P828010	CHIP DIODE	DAN202U
D 205	264P828010	CHIP DIODE	DAN202U
D 207	264P828010	CHIP DIODE	DAN202U
D 290	264P828010	CHIP DIODE	DAN202U/MA142W
D 291	264P828010	CHIP DIODE	DAN202U/MA142W
D 2AA	264P814010	CHIP DIODE	DAP202U
D 2D0	264P828010	CHIP DIODE	DAN202U
D 2T0	264P814030	CHIP DIODE	MA142WA
D 2X5	264P816090	CHIP DIODE	RD11MB2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 2X6	264P816090	CHIP DIODE	RD11MB2
D 2002	264P833010	CHIP DIODE	ND411G-2
D 2080	264P814010	CHIP DIODE	DAP202U
D 2082	264P828010	CHIP DIODE	DAN202U
D 2101	264P828010	CHIP DIODE	DAN202U
D 2103	264P828010	CHIP DIODE	DAN202U
D 301	264P828010	CHIP DIODE	DAN202U
D 3BA	264P833010	CHIP DIODE	ND411G-2
D 450	264P828010	CHIP DIODE	DAN202U
D 451	264P814010	CHIP DIODE	DAP202U
D 4C1	264P830020	CHIP DIODE	DA204U
D 4D0	264P828010	CHIP DIODE	DAN202U
D 4F0	264P816050	CHIP DIODE	RD7.5MB2
D 4001	264P814010	CHIP DIODE	DAP202U
D 501	264P313050	DIODE	SLR-34URC3
D 571	264P526010	LIGHT EMITTING DIODE	LN57
D 5A0	264P814010	CHIP DIODE	DAP202U
D 5B0	264P816050	CHIP DIODE	RD7.5MB2
D 5B1	264P816050	CHIP DIODE	RD7.5MB2
D 601	264P814010	CHIP DIODE	DAP202U
D 602	264P814010	CHIP DIODE	DAP202U
D 603	264P828010	CHIP DIODE	DAN202U
D 604	264P828010	CHIP DIODE	DAN202U
D 605	264P833010	CHIP DIODE	ND411G-2
D 7AA	264P828010	CHIP DIODE	DAN202U
D 7ZT	264P830020	CHIP DIODE	DA204U
D 7ZW	264P830020	CHIP DIODE	DA204U
D 8A1	264P814010	CHIP DIODE	DAP202U
D 8A2	264P814010	CHIP DIODE	DAP202U
D 8000	264P814010	CHIP DIODE	DAP202U
D 8001	264P814010	CHIP DIODE	DAP202U
D 8002	264P814010	CHIP DIODE	DAP202U
D 8700	264P828010	CHIP DIODE	DAN202U
D 8701	264P828010	CHIP DIODE	DAN202U
D 8702	264P828010	CHIP DIODE	DAN202U
D 8703	264P828010	CHIP DIODE	DAN202U
D 8705	264P828010	CHIP DIODE	DAN202U
D 8706	264P816050	CHIP DIODE	RD7.5MB2
D 8707	264P816050	CHIP DIODE	RD7.5MB2
D 8708	264P816050	CHIP DIODE	RD7.5MB2
D 8709	264P816050	CHIP DIODE	RD7.5MB2
D 8710	264P833010	CHIP DIODE	ND411G-2
D 900	264P551010	DIODE	RK13
D 901	264P832010	CHIP DIODE	SFPB64V
D 930	264P814010	CHIP DIODE	DAP202U
D 931	264P814010	CHIP DIODE	DAP202U
D 932	264P814010	CHIP DIODE	DAP202U
D 950	264P814010	CHIP DIODE	DAP202U
D 960	264P814030	CHIP DIODE	MA142WA
D 961	264P831010	CHIP DIODE	SFPB54V
D 963	264P814030	CHIP DIODE	MA142WA
D 964	264P828010	CHIP DIODE	DAN202U
D 965	264P828010	CHIP DIODE	DAN202U
D 966	264P828010	CHIP DIODE	DAN202U
D 967	264P828010	CHIP DIODE	DAN202U

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
OTHER SEMICONDUCTORS			
RP4F0	265P077010	POSITIVE THERMISTOR	PTH61G16BD2R2N
FILTERS			
BPF2B1	409P515010	B-P-F CHIP	
BPF2P0	409P553010	B-P-F CHIP	
BPF6A1	409P552010	B-P-F CHIP	
BPF6A2	409P554010	B-P-F CHIP	
L 303	409P526010	B-P-F CHIP	
CF6A1	296P103010	CERAMIC FILTER	
CF8A1	299P126030	CERAMIC OSC CHIP	CSAC2.00
CF8700	299P126010	CERAMIC OSC CHIP	CSAC4.19
CF900	296P099010	CERAMIC RESONATOR	
LF2AA	409P545010	L-P-F CHIP	4FS4041
LF2AB	409P506010	L-P-F CHIP	4FT
LF2AC	409P546010	L-P-F CHIP	4FW4050
LF2AD	409P396010	LOW PASS FILTER	
LF2AE	409P396010	LOW PASS FILTER	
LF2AF	409P547010	L-P-F CHIP	4FS3218
LF2AG	409P548010	L-P-F CHIP	4FT3235
LF2JA	409P503010	L-P-F CHIP	4FUS
LF2JB	409P549010	B-P-F CHIP	4FUS4046
LPF2B1	409P517010	L-P-F CHIP	
LPF2B2	409P555010	L-P-F CHIP	
LPF6A1	409P520010	L-P-F CHIP	
L 4101	409P512080	EMI FILTER CHIP	
L 4102	409P512080	EMI FILTER CHIP	
L 4103	409P512080	EMI FILTER CHIP	
L 4104	409P512060	EMI FILTER CHIP	
L 4105	409P512060	EMI FILTER CHIP	
L 4107	409P512030	EMI FILTER CHIP	
L 4108	409P512010	EMI FILTER CHIP	
L 4109	409P512060	EMI FILTER CHIP	
L 4110	409P512010	EMI FILTER CHIP	
L 4111	409P512010	EMI FILTER CHIP	
L 4112	409P512010	EMI FILTER CHIP	
L 4113	409P512060	EMI FILTER CHIP	
L 4114	409P512060	EMI FILTER CHIP	
L 4115	409P512060	EMI FILTER CHIP	
L 4116	409P512030	EMI FILTER CHIP	
L 4117	409P512010	EMI FILTER CHIP	
L 4118	409P512010	EMI FILTER CHIP	
L 4119	409P512010	EMI FILTER CHIP	
L 4120	409P512010	EMI FILTER CHIP	
L 4121	409P512060	EMI FILTER CHIP	
L 4123	409P512060	EMI FILTER CHIP	
DELAY LINES			
DE2101	409P513010	DELAY EQUALIZER CHIP	ELB-4C511N
DE2102	409P514010	DELAY EQUALIZER CHIP	ELB-4C510N
DL601	337P146010	DELAY LINE	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
		COILS	
L 0SA	325C241070	CHIP	22 μH-K
L 0SD	325C140070	CHIP	3.3 μH-K
L 0SF	325C241070	CHIP	22 μH-K
L 0SK	325C140030	CHIP	1.5 μH-M
L 0SL	325C140030	CHIP	1.5 μH-M
L 0SM	325C140030	CHIP	1.5 μH-M
L 0SN	325C140030	CHIP	1.5 μH-M
L 201	325C243000	CHIP	270 μH-K
L 202	325C142050	CHIP	100 μH-K
L 203	325C243000	CHIP	270 μH-K
L 204	325C141090	CHIP	33 μH-K
L 205	325C141030	CHIP	10 μH-K
L 206	325C242080	CHIP	180 μH-K
L 207	325C242050	CHIP	100 μH-K
L 209	325C141040	CHIP	12 μH-K
L 210	325C242050	CHIP	100 μH-K
L 214	325C242050	CHIP	100 μH-K
L 215	325C242050	CHIP	100 μH-K
L 217	325C242050	CHIP	100 μH-K
L 218	325C133040	CHIP	560 μH-K
L 2AA	325C241070	CHIP	22 μH-K
L 2AB	325C241070	CHIP	22 μH-K
L 2AC	325C241030	CHIP	10 μH-K
L 2AD	325C241070	CHIP	22 μH-K
L 2AE	325C241070	CHIP	22 μH-K
L 2D0	325C242050	CHIP	100 μH-K
L 2D1	325C242050	CHIP	100 μH-K
L 2JB	325C241070	CHIP	22 μH-K
L 2JD	325C241070	CHIP	22 μH-K
L 2JE	325C241070	CHIP	22 μH-K
L 2JF	325C241070	CHIP	22 μH-K
L 2JH	325C142050	CHIP	100 μH-K
L 2P0	325C242050	CHIP	100 μH-K
L 2S0	325C242050	CHIP	100 μH-K
L 2S1	325C242050	CHIP	100 μH-K
L 2002	325C242050	CHIP	100 μH-K
L 2005	325C242050	CHIP	100 μH-K
L 2006	325C242050	CHIP	100 μH-K
L 2007	325C242050	CHIP	100 μH-K
L 2080	325C242050	CHIP	100 μH-K
L 2103	325C243000	CHIP	270 μH-K
L 2104	325C141050	CHIP	15 μH-K
L 2105	325C242060	CHIP	120 μH-K
L 2106	325C242050	CHIP	100 μH-K
L 2201	325C242050	CHIP	100 μH-K
L 301	409P385010	TRAP	
L 302	409P384020	BIAS TRAP	
L 3300	325C242050	CHIP	100 μH-K
L 3301	325C242050	CHIP	100 μH-K
L 400	325C142010	CHIP	47 μH-K
L 420	325C142010	CHIP	47 μH-K
L 450	325C142010	CHIP	47 μH-K
L 4001	325C230070	CHIP	3.3 μH-J
L 4002	325C142050	CHIP	100 μH-K
L 4003	325C142050	CHIP	100 μH-K
L 4004	325C142050	CHIP	100 μH-K
L 601	325C242050	CHIP	100 μH-K
L 603	325C242050	CHIP	100 μH-K
L 604	325C242050	CHIP	100 μH-K
L 605	325C163060	PEAKING	820 μH-K
L 607	325C141050	CHIP	15 μH-K
L 609	325C242050	CHIP	100 μH-K
L 611	325C141070	CHIP	22 μH-K
L 612	325C242050	CHIP	100 μH-K
L 613	325C242050	CHIP	100 μH-K
L 7AA	325C242010	CHIP	47 μH-K
L 7AB	325C242050	CHIP	100 μH-K
L 8000	325C141050	CHIP	15 μH-K
L 8001	325C242050	CHIP	100 μH-K
L 8002	325C240070	CHIP	3.3 μH-M
L 900	351P063010	CHOKE	
L 921	351P062010	CHOKE	
L 922	351P063010	CHOKE	
L 940	351P062020	CHOKE	
L 941	351P063010	CHOKE	
L 942	351P056010	CHOKE	
L 943	351P056020	CHOKE	
L 960	325C132050	CHIP	100 μH-K
L 961	351P063020	CHOKE	
L 962	325C132050	CHIP	100 μH-K
VL601	409P390040	VARIABLE COIL	
		TRANSFORMERS	
T 950	409P528010	TRANSFORMER	
		VARIABLE RESISTORS	
VR0SE	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N SUB STRAIGHT VOL ADJ
VR201	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K Y/C REC LEVEL ADJ
VR202	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K Y/C REC LEVEL ADJ
VR203	127C250050	VR-SEMIFIXED-CHIP	1/5W B2K Y/C REC LEVEL ADJ
VR2AA	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N OB, OFFSET ADJ ALC ADJ
VR2AB	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N
VR2AC	127C220050	VR-SEMIFIXED-CHIP	1/10W B2KΩ-N 1HCCD GAIN ADJ
VR2AE	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N OB, OFFSET ADJ
VR2AJ	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R-Y, B-Y OFFSET ADJ
VR2AK	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R-Y, B-Y OFFSET ADJ

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR2AL	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N APERTUR CORRECTION ADJ C, OFFSET ADJ
VR2AM	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N
VR2BE	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N R, B WB ADJ
VR2BF	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N R, B OFFSET ADJ
VR2BG	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R, B OFFSET ADJ
VR2BH	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R, B OFFSET ADJ
VR2BJ	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N R-Y GAIN ADJ
VR2BK	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N B-Y GAIN ADJ
VR2JB	127C230070	VR-SEMIFIXED	1/5W B5K CHROMA LOW LUMI SUPPRE ADJ
VR2JE	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K BURST LEVEL ADJ
VR2X0	129D132050	VR-PCB	1/20W B100KΩ-15F STILL, SLOW CIRCUIT ADJ
VR2ZA	127C250080	VR-SEMIFIXED-CHIP	1/5W B10K BURST LEVEL ADJ
VR2ZB	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K BURST LEVEL ADJ
VR2003	127C220040	VR-SEMIFIXED-CHIP	1/10W B1KΩ-N SUB EMPH IN LEVEL ADJ
VR2004	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N PB DEMO SENS & PB LEVEL ADJ
VR2005	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N PB DEMO SENS & PB LEVEL ADJ
VR2006	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N Y-NR ADJ
VR2007	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N CARRIER DEV ADJ
VR2008	127C221000	VR-SEMIFIXED-CHIP	1/10W B30KΩ-N CARRIER DEV ADJ
VR2009	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N CARRIER DEV ADJ
VR2010	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N CARRIER DEV ADJ
VR2201	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N
VR2202	127C220060	VR-SEMIFIXED-CHIP	1/10W B3KΩ-N S-VHS MODE MAIN EMPH IN LEVEL ADJ
VR2203	127C220060	VR-SEMIFIXED-CHIP	1/10W B3KΩ-N PB DEMO SENS & PB LEVEL
VR301	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N PB AUDIO LEVEL ADJ
VR302	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N BIAS LEVEL ADJ
VR5A1	127C251020	VR-SEMIFIXED-CHIP	1/5W B100K
VR5FA	127C220050	VR-SEMIFIXED-CHIP	1/10W B2KΩ-N ALC ADJ
VR601	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N CHROMA CARRIER LEAK ADJ
VR602	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N AMPLI LEVEL OF PILOT BURST ADJ
VR603	127C220040	VR-SEMIFIXED-CHIP	1/10W B1KΩ-N C-NR ADJ
VR8A4	120C276000	VR-PCB	1/2W B10KΩ-8.5F
VR8000	127C251030	VR-SEMIFIXED-CHIP	1/5W B200K JITTER OF MODE INDICAT STILL ADJ
VR8500	127C251040	VR-SEMIFIXED-CHIP	1/5W B300K BATT DETEC CIRCUIT ADJ
VR920	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N POWER CIRCUIT ADJ
VR940	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N POWER CIRCUIT ADJ
VR960	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N POWER CIRCUIT ADJ

RESISTORS

R 0SA	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SB	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SH	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SM	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SN	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0SP	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SQ	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 0SS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 0ST	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 0SV	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 0SX	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 0SY	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0SZ	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0TA	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0TB	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 0TH	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 0TJ	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 0TK	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 0TL	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 0TM	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 0TN	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 0TP	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 0TR	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0TS	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 0TT	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 0TU	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0TV	103P500050	CHIP RESISTOR	1/20W 22Ω-J
R 0TW	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 0TX	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 0TY	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 0TZ	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 0UA	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0UC	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 0UD	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 0UE	103P504010	CHIP RESISTOR	1/20W 22KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 0UF	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 0UG	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 0UH	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 0UJ	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 0UY	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0VB	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0VC	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0VE	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 0VF	103P409050	CHIP RESISTOR	1/10W0Ω
R 201	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 202	103P501050	CHIP RESISTOR	1/20W 150Ω-J
R 203	103P509050	CHIP RESISTOR	0Ω RM1608
R 204	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 205	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 206	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 207	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 208	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 209	103P502030	CHIP RESISTOR	1/16W 680Ω-J
R 210	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 211	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 212	103P502060	CHIP RESISTOR	1/16W 1.2KΩ-J
R 213	103P509050	CHIP RESISTOR	0Ω RM1608
R 214	103P509050	CHIP RESISTOR	0Ω RM1608
R 215	103P502020	CHIP RESISTOR	1/16W 560Ω-J
R 221	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 222	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 231	103P501000	CHIP RESISTOR	1/20W 56Ω-J
R 232	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 233	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 234	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 235	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 236	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 237	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 238	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 240	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 241	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 242	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 243	103P501000	CHIP RESISTOR	1/20W 56Ω-J
R 244	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 245	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 246	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 247	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 248	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 249	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 250	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 251	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 252	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 253	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 254	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 255	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 256	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 257	103P402050	CHIP RESISTOR	1/10W1KΩ-J
R 258	103P402050	CHIP RESISTOR	1/10W1KΩ-J
R 259	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 260	103P502050	CHIP RESISTOR	1/20W 1KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 261	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 262	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 263	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 267	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 268	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 271	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 272	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 273	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 274	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 275	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 276	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 277	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 278	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 279	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 280	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 281	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 282	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 283	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 284	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 285	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 286	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 291	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 292	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 293	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 294	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 295	103P409050	CHIP RESISTOR	1/10W 0Ω RM1608
R 2AA	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2AB	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AC	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2AD	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AE	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2AF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AG	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2AH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2AJ	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2AK	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2AL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2AN	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2AP	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2AQ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2AR	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AS	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2AT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AV	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2AW	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AY	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2AZ	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2BB	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BC	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BE	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BF	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2BG	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2BH	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 2BJ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2BK	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 2BL	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2BM	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BN	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2BP	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2BQ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BS	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 2BT	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2BU	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2BV	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2BW	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BX	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2BZ	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2CC	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2CD	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2CE	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2CF	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 2CG	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 2CH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CJ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CL	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2CM	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2CN	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2CP	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2CR	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2CS	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2CT	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2CU	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CV	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2CW	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CX	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CY	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2D0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 2D1	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2D4	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2D5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2D6	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2D7	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2D8	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2D9	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2DA	103P503020	CHIP RESISTOR	1/16W 3.9KΩ-J
R 2DB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2DC	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DE	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2DF	103P504010	CHIP RESISTOR	1/16W 22KΩ-J
R 2DG	103P509050	CHIP RESISTOR	0Ω RM1608
R 2DH	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2DJ	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2DK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2DM	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2DN	103P503020	CHIP RESISTOR	1/16W 3.9KΩ-J
R 2DP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2DS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DU	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2DW	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2DX	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2E0	103P509050	CHIP RESISTOR	0Ω RM1608
R 2E2	103P509050	CHIP RESISTOR	0Ω RM1608
R 2E4	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2E5	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2E6	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2E7	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2EG	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2EH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2EJ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2EK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2EM	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2EN	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EP	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EQ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2EY	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2GA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GC	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2GD	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2GE	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GF	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2GG	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2GH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GJ	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 2GK	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2GL	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2GN	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 2GR	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GS	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GT	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2GU	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2GV	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2GW	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2GX	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GY	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2GZ	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2H7	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2H8	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2H9	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2HA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HC	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HD	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HJ	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HK	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HL	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HM	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2HN	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2HQ	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2HR	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2HS	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HT	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2HU	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HV	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HW	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HX	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2HY	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HZ	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2J0	103P509050	CHIP RESISTOR	0Ω RM1608
R 2J2	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2J3	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2JA	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JB	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2JC	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JE	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2JF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JG	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2JH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JJ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JK	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2JL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JX	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2JY	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2JZ	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2KA	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2KF	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2KG	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2KH	103P509050	CHIP RESISTOR	0Ω RM1608
R 2KJ	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2KK	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2KL	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2KM	103P501060	CHIP RESISTOR	1/20W 180Ω-J
R 2KP	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2KQ	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2KR	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2KS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2KZ	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L0	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2L1	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L3	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L4	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2L7	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2LA	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LF	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2LG	103P500080	CHIP RESISTOR	1/20W 39Ω-J
R 2LH	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 2LJ	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2LK	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2LL	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LM	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LN	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2LP	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2LV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2LW	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2MD	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2MP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2MQ	103P509050	CHIP RESISTOR	0Ω RM1608
R 2MR	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2MU	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2NB	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2NC	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2NE	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2NH	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2NJ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2NK	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2NL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2NN	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 2P0	103P501050	CHIP RESISTOR	1/20W 150Ω-J
R 2P1	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2P2	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2P3	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2P4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2P5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2P6	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2P7	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2P8	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 2P9	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2PA	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2PD	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PG	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PH	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PJ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2PK	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2PL	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PM	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PN	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PP	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2PQ	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2PR	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2PS	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PU	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2PV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q0	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2Q1	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2Q2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q3	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q4	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2Q5	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2Q6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2RA	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2RB	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2RC	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2RD	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2RE	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2RF	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RG	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2RH	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2RJ	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2RK	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2RL	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2RN	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2RP	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RS	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2RT	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2RU	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2RV	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 2RW	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2RX	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2RY	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RZ	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S1	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S3	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2S4	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2S5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S7	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2S8	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S9	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2SD	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2SE	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2SF	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2SG	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2SH	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2SJ	103P502060	CHIP RESISTOR	1/16W 1.2KΩ-J
R 2SK	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2SL	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2SM	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SN	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SP	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SQ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2SR	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2SS	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2ST	103P501040	CHIP RESISTOR	1/20W 120Ω-J
R 2SU	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2SV	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2SW	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2T0	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2T1	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2T2	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2T3	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 2T4	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 2T5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2T6	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2T7	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2T8	103P504030	CHIP RESISTOR	1/20W 33KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2T9	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2U0	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 2U1	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 2X0	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2X1	103P501020	CHIP RESISTOR	1/20W 82Ω-J
R 2X3	103P501020	CHIP RESISTOR	1/20W 82Ω-J
R 2X4	103P509090	CHIP RESISTOR	1/20W 75Ω-J
R 2X5	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 2X6	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 2ZA	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2ZB	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2ZC	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZE	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2ZG	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZH	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZJ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZK	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZL	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZM	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZN	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZP	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZQ	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZR	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2ZS	103P509050	CHIP RESISTOR	0Ω RM1608
R 2007	103P504050	CHIP RESISTOR	1/16W 47KΩ-J
R 2012	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2013	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2014	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2015	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2016	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2017	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2018	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2019	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2021	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2022	103P502020	CHIP RESISTOR	1/16W 560Ω-J
R 2024	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2025	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2026	103P502030	CHIP RESISTOR	1/16W 680Ω-J
R 2029	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2031	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2032	103P509050	CHIP RESISTOR	0Ω RM1608
R 2033	103P509050	CHIP RESISTOR	0Ω RM1608
R 2034	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2035	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2036	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2039	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2040	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2041	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2043	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2044	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2045	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2051	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2053	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2054	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2056	103P503070	CHIP RESISTOR	1/20W 10KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2058	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2059	103P509050	CHIP RESISTOR	0Ω RM1608
R 2061	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2080	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2081	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2082	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 2101	103P502010	CHIP RESISTOR	1/16W 470Ω-J
R 2102	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2103	103P501030	CHIP RESISTOR	1/16W 100Ω-J
R 2104	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2105	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 2106	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2107	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2108	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2109	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2110	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2111	103P503080	CHIP RESISTOR	1/16W 12KΩ-J
R 2112	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2113	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2114	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2115	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2116	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2117	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2118	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2119	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2121	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2122	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2123	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2124	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2132	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2133	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2214	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2215	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2216	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2401	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2402	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2403	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2404	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2405	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2406	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2407	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2408	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2409	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 301	103P506040	CHIP RESISTOR	1/20W 1.8MΩ-K
R 302	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 303	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 304	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 305	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 306	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 307	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 309	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 310	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 311	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 312	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 313	103P502030	CHIP RESISTOR	1/20W 680Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 314	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 315	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 316	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 317	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 318	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 319	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 320	103P501040	CHIP RESISTOR	1/20W 120Ω-J
R 321	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 322	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 323	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 324	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 325	103P501010	CHIP RESISTOR	1/20W 68Ω-J
R 326	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 327	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 328	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 329	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 330	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 331	103P508080	CHIP RESISTOR	1/20W 4.7Ω-K
R 332	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 333	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 334	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 335	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 336	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 337	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 338	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 339	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 340	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 341	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 342	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 343	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 344	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 345	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 346	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 347	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 348	103P509050	CHIP RESISTOR	0Ω RM1608
R 349	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 350	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 3AA	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 3AB	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 3301	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 3302	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 3303	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 3309	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 3310	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 3311	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 3312	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 3313	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 3314	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 3317	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 3321	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 3323	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 3324	103P509050	CHIP RESISTOR	0Ω RM1608
R 401	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 402	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 403	103P500070	CHIP RESISTOR	1/20W 33Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 404	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 405	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 406	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 407	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 408	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 409	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 410	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 411	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 412	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 413	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 420	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 421	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 422	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 423	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 424	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 425	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 426	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 427	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 428	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 429	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 430	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 431	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 432	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 433	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 434	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 435	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 436	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 437	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 438	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 439	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 440	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 441	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 442	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 443	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 449	103P506000	CHIP RESISTOR	1/20W 820KΩ-J
R 450	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 451	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 452	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 453	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 454	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 455	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 456	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 457	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 458	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 459	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 460	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 461	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 462	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 463	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 464	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 480	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 481	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 482	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 483	103P508080	CHIP RESISTOR	1/20W 4.7Ω-K
R 4A0	103P504090	CHIP RESISTOR	1/20W 100KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 4A1	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 4A2	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 4A3	103P505030	CHIP RESISTOR	1/20W 220KΩ-J
R 4A4	103P504060	CHIP RESISTOR	1/16W 56KΩ-J
R 4A5	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4A6	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 4A7	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 4A8	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4B0	103P504010	CHIP RESISTOR	1/16W 22KΩ-J
R 4B1	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4B2	103P503040	CHIP RESISTOR	1/16W 5.6KΩ-J
R 4B3	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4B4	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4B5	103P505030	CHIP RESISTOR	1/20W 220KΩ-J
R 4B6	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 4B7	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 4B8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C0	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 4C1	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 4C3	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C4	103P474090	CHIP RESISTOR	1/10W10K-F
R 4C5	103P474090	CHIP RESISTOR	1/10W10K-F
R 4C6	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4C7	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4C8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C9	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4F0	103P352070	CHIP RESISTOR	1/8W1.5KΩ-J
R 4F1	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4F3	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4F4	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4001	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 4003	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 4004	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4005	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 4006	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4007	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4010	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 4015	109P107020	CHIP NETWORK	1/32W 15K-J
R 4016	109P107080	CHIP NETWORK	1/32W 330K-J
R 4017	109P107080	CHIP NETWORK	1/32W 330K-J
R 4020	103P509050	CHIP RESISTOR	0Ω RM1608
R 4021	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4023	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4025	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4026	103P473040	CHIP RESISTOR	1/10W2.4K-F
R 4027	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 4028	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 571	103P352000	CHIP RESISTOR	1/8W390Ω-J
R 572	103P359050	CHIP RESISTOR	1/8W 0Ω
R 5A0	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A1	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A2	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 5A3	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A4	103P476070	CHIP RESISTOR	1/10W56K-F
R 5A5	103P505070	CHIP RESISTOR	1/20W 470KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 5A6	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 5B3	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B6	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B7	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B9	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5C0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5C1	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C2	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 5C3	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C4	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 5C5	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C7	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D1	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D2	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 5D3	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 5D4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D5	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 5D6	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 5D7	103P401050	CHIP RESISTOR	1/10W150Ω-J
R 5D8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D9	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 5F0	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 5F1	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F2	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 5F3	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F4	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F5	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 5F6	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 5FA	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 5FC	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 5FD	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 5FE	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5FF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 5FG	103P505090	CHIP RESISTOR	1/20W 680KΩ-J
R 5FH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 5FJ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5FK	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 5FL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 5H0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5H1	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 5H7	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5H8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5H9	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 5J0	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5J1	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5J2	103P401040	CHIP RESISTOR	1/10W120Ω-J
R 601	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 602	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 603	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 604	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 605	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 606	103P502050	CHIP RESISTOR	1/20W 1KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 607	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 608	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 609	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 610	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 611	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 612	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 613	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 614	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 615	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 616	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 617	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 618	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 619	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 620	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 621	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 622	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 623	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 624	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 625	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 626	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 627	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 628	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 631	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 632	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 633	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 634	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 635	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 636	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 637	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 638	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 639	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 640	103P501090	CHIP RESISTOR	1/16W 330Ω-J
R 641	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 642	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 643	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 644	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 645	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 646	103P501070	CHIP RESISTOR	1/16W 220Ω-J
R 647	103P501060	CHIP RESISTOR	1/20W 180Ω-J
R 648	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 649	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 650	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 651	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 653	103P509050	CHIP RESISTOR	0Ω RM1608
R 654	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 655	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 656	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 657	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 658	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 659	103P501040	CHIP RESISTOR	1/16W 120Ω-J
R 660	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 661	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 662	103P359050	CHIP RESISTOR	1/8W 0Ω
R 663	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 664	103P501090	CHIP RESISTOR	1/20W 330Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 665	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 666	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 667	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 668	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 669	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 670	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 671	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 7CD	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CE	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CF	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CG	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CL	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CM	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CN	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CQ	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CR	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CS	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CV	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DA	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 7DB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7DC	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7DD	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DE	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DF	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7DG	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7FP	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 7GM	103P509050	CHIP RESISTOR	0Ω RM1608
R 7LL	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 7LP	103P509050	CHIP RESISTOR	0Ω RM1608
R 7MA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7MB	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 7MC	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 7MD	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 7PA	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 7PB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7SA	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7SB	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7TA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7TB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7TP	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7ZA	103P473050	CHIP RESISTOR	1/10W 2.7K-F
R 7ZB	103P474010	CHIP RESISTOR	1/10W 4.7K-F
R 7ZC	103P509050	CHIP RESISTOR	0Ω RM1608
R 7ZD	103P474090	CHIP RESISTOR	1/10W10K-F
R 7ZE	103P474010	CHIP RESISTOR	1/10W 4.7K-F
R 7ZP	103P351080	CHIP RESISTOR	1/8W 270Ω-J
R 7ZQ	103P351080	CHIP RESISTOR	1/8W 270Ω-J
R 8A1	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8A2	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8A3	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8A4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8A6	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A7	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A9	103P504090	CHIP RESISTOR	1/20W 100KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 8B0	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8B1	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8B2	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8B3	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8C5	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 8C6	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 8C7	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 8C8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8000	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8001	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8002	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 8003	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8004	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8005	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8006	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8007	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8008	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8009	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8010	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8011	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8012	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8013	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8014	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8016	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8017	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 8018	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8019	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 8021	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8022	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8023	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8025	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 8026	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 8027	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8028	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8029	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 8501	103P405050	CHIP RESISTOR	1/10W330KΩ-J
R 8502	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 8702	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8703	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8704	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8705	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8706	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8707	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 8708	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8709	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8710	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8711	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8712	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8713	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8714	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8715	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8716	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8717	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8718	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8719	103P504050	CHIP RESISTOR	1/20W 47KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 8721	103P509050	CHIP RESISTOR	0Ω RM1608
R 8730	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 8731	103P506050	CHIP RESISTOR	1/20W 2.2MΩ-J
R 8732	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8733	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8734	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 8735	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 8736	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8737	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8738	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8739	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8741	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8743	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8744	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8745	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8746	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8747	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8748	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8749	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8750	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8751	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8752	103P505080	CHIP RESISTOR	1/20W 560KΩ-J
R 8753	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8754	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8755	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8756	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8757	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8760	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8761	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 900	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 901	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 902	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 903	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 904	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 909	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 910	103P352040	CHIP METAL	1/8W 820Ω-J
R 911	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 912	103P352040	CHIP METAL	1/8W 820Ω-J
R 913	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 914	103P352040	CHIP METAL	1/8W 820Ω-J
R 915	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 916	103P352040	CHIP METAL	1/8W 820Ω-J
R 917	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 918	103P352040	CHIP METAL	1/8W 820Ω-J
R 919	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 920	103P352040	CHIP METAL	1/8W 820Ω-J
R 921	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 922	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 923	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 930	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 931	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 932	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 933	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 934	103P401030	CHIP RESISTOR	1/10W100Ω-J
R 935	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 936	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 937	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 938	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 939	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 941	103P475050	CHIP RESISTOR	1/10W18K-F
R 943	103P475050	CHIP RESISTOR	1/10W18K-F
R 950	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 951	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 952	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 953	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 954	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 955	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 957	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 959	103P409050	CHIP RESISTOR	1/10W0Ω
R 960	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 961	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 962	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 964	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 965	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 966	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 967	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 970	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 971	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 972	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 973	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 974	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 975	103P505090	CHIP RESISTOR	1/20W 680KΩ-J
R 984	103P475050	CHIP RESISTOR	1/10W18K-F
R 985	103P479010	CHIP RESISTOR	1/10W560K-F
R 986	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 990	103P502030	CHIP RESISTOR	1/20W 680Ω-J

CAPACITORS AND TRIMMERS

	154P334030	CERAMIC CHIP	CH50V220PJ
C 0SG	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SK	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SM	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0SN	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SP	154P341030	CERAMIC CHIP	CH50V 12P-J
C 0SR	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SS	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0ST	154P343030	CERAMIC CHIP	CH50V 82P-J
C 0SU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SV	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0SX	154P342050	CERAMIC CHIP	CH50V 39P-J
C 0TA	154P342050	CERAMIC CHIP	CH50V 39P-J
C 0TB	154P341090	CERAMIC CHIP	CH50V 22P-J
C 0TC	154P342070	CERAMIC CHIP	CH50V 47P-J
C 0TH	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TK	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 0TL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TM	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 0TN	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TP	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 0TQ	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 0TR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TT	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TU	181P505000	ELECTROLYTIC CHIP	04W35V 10μF-M
C 0TV	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TY	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TZ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UA	181P504090	ELECTROLYTIC CHIP	35V4.7μF-M
C 0UB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0UC	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 0UE	181P505010	ELECTROLYTIC CHIP	35V22μF-M
C 0UG	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 0UH	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 0UK	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 0UL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UM	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UN	181P504090	ELECTROLYTIC CHIP	35V4.7μF-M
C 0UQ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UR	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 0UW	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VB	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VC	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VD	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VF	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VJ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VL	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0VM	141P140090	CERAMIC CHIP	B50V 1000P-K
C 0VN	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0VR	141P140090	CERAMIC CHIP	B50V 1000P-K
C 201	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 202	154P355060	CERAMIC CHIP	SL25V 680P-J
C 203	154P354000	CERAMIC CHIP	SL50V 150P-J
C 204	154P352060	CERAMIC CHIP	SL50V 39P-J
C 205	154P354040	CERAMIC CHIP	SL50V 220P-J
C 206	154P354020	CERAMIC CHIP	SL50V 180P-J
C 207	154P353060	CERAMIC CHIP	SL50V 100P-J
C 208	154P354040	CERAMIC CHIP	SL50V 220P-J
C 209	154P351010	CERAMIC CHIP	SL50V 9P-C
C 210	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 211	154P353000	CERAMIC CHIP	SL50V 56P-J
C 212	154P354080	CERAMIC CHIP	SL50V 330P-J
C 219	154P352000	CERAMIC CHIP	SL50V 22P-J
C 220	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 221	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 222	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 223	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 224	154P353040	CERAMIC CHIP	SL50V 82P-J
C 225	154P354000	CERAMIC CHIP	SL50V 150P-J
C 226	154P352020	CERAMIC CHIP	SL50V 27P-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 227	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 228	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 229	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 230	141P136030	CERAMIC CHIP	F16V1μF-Z
C 231	141P136030	CERAMIC CHIP	F16V1μF-Z
C 232	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 233	141P140090	CERAMIC CHIP	B50V 1000P-K
C 234	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 235	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 236	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 237	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 238	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 239	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 248	141P135080	CERAMIC CHIP	F50V 0.1μF-Z
C 249	141P135080	CERAMIC CHIP	F50V 0.1μF-Z
C 250	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 251	141P136030	CERAMIC CHIP	F16V1μF-Z
C 271	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 272	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 273	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 278	141P136030	CERAMIC CHIP	F16V1μF-Z
C 279	141P136030	CERAMIC CHIP	F16V1μF-Z
C 280	141P136030	CERAMIC CHIP	F16V1μF-Z
C 281	141P136030	CERAMIC CHIP	F16V1μF-Z
C 282	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 283	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 284	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 285	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 291	154P352080	CERAMIC CHIP	SL50V 47P-J
C 292	141P136030	CERAMIC CHIP	F16V1μF-Z
C 293	141P136030	CERAMIC CHIP	F16V1μF-Z
C 294	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 295	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AA	189P122010	TANTALUM CHIP	10V2.2μF-M
C 2AB	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2AC	141P135090	CERAMIC CHIP	F25V0.22μF-Z
C 2AD	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AE	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AF	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AJ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AK	141P134010	CERAMIC CHIP	F50V0.047M
C 2AL	141P134010	CERAMIC CHIP	F50V0.047M
C 2AM	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AN	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AP	141P134010	CERAMIC CHIP	F50V0.047M
C 2AQ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AS	181P508000	ELECTROLYTIC CHIP	04W4V 100μF-M
C 2AT	141P134010	CERAMIC CHIP	F50V0.047M
C 2AU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AV	141P135090	CERAMIC CHIP	F25V0.22μF-Z
C 2AW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AX	141P143080	CERAMIC CHIP	F50V 0.01μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2AY	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2AZ	154P343050	CERAMIC CHIP	CH50V 100P-J
C 2BA	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2BB	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BD	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2BE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BG	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BJ	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2BK	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BL	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BM	189P121060	TANTALUM CHIP	6.3V22μF-M
C 2BN	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BP	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BQ	181P512020	ELECTROLYTIC CHIP	04W16V4.7μF-M
C 2BR	189P123070	TANTALUM CHIP	16V10μF-M
C 2BS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BU	154P355000	CERAMIC CHIP	SL50V 390P-J
C 2BV	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2BX	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2BY	189P123070	TANTALUM CHIP	16V10μF-M
C 2BZ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CA	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2CD	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2CE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CG	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2CH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CJ	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2CK	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CL	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CM	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CN	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CP	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2CR	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2CS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CV	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2CW	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2CX	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2CY	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2CZ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2D0	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2D1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D5	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2D6	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D7	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2D8	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D9	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2DA	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2DB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2DC	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2DD	154P344030	CERAMIC CHIP	CH50V 220P-J
C 2DG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2DJ	189P123040	TANTALUM CHIP	16V3.3M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2E0	154P344050	CERAMIC CHIP	CH50V 270P-J
C 2E1	154P342070	CERAMIC CHIP	CH50V 47P-J
C 2E2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2E4	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E5	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E6	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2E7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2G0	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 2JF	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JG	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JH	141P133080	CERAMIC CHIP	F50V0.01μF-Z
C 2JJ	141P133080	CERAMIC CHIP	F50V0.01μF-Z
C 2JM	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JN	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JP	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2JR	141P134010	CERAMIC CHIP	F50V0.047M
C 2JS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JT	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2JU	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JV	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JX	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2JY	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JZ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KA	154P343030	CERAMIC CHIP	CH50V 82P-J
C 2KB	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KC	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KD	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2KE	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KH	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2KJ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KP	154P343050	CERAMIC CHIP	CH50V 100P-J
C 2KR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KT	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KU	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2L2	154P351040	CERAMIC CHIP	SL50V 12P-C
C 2L3	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2L4	154P353040	CERAMIC CHIP	SL50V 82P-J
C 2LA	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LE	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2LF	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2LG	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LH	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LP	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2LQ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2LS	154P341010	CERAMIC CHIP	CH50V 10P-C
C 2LX	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2M0	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2MC	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2ME	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MF	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2MG	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2MJ	154P342010	CERAMIC CHIP	CH50V 27P-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2ML	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MM	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MS	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2MT	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2MU	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2MV	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2MW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MX	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MY	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2NA	154P341010	CERAMIC CHIP	CH50V 10P-C
C 2NB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2NC	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2ND	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2NE	189P123040	TANTALUM CHIP	16V3.3M
C 2NG	189P123070	TANTALUM CHIP	16V10μF-M
C 2NH	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2P0	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2P1	154P343010	CERAMIC CHIP	CH50V 68P-J
C 2P2	154P343070	CERAMIC CHIP	CH50V 120P-J
C 2P3	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2P4	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2P5	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2P6	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2P7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2S0	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2S1	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2S2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2S3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2S4	141P136030	CERAMIC CHIP	F25V 1μF-Z
C 2S5	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2S6	154P344030	CERAMIC CHIP	CH50V 220P-J
C 2S7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T0	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2X0	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2ZA	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2ZB	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2004	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2005	154P352020	CERAMIC CHIP	SL50V 27P-J
C 2010	154P355000	CERAMIC CHIP	SL50V 390P-J
C 2011	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2012	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2014	154P351020	CERAMIC CHIP	SL50V 10P-J
C 2015	154P352040	CERAMIC CHIP	SL50V 33P-J
C 2016	154P354080	CERAMIC CHIP	SL50V 330P-J
C 2019	154P353080	CERAMIC CHIP	SL50V 100P-J
C 2022	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2023	189P125010	TANTALUM CHIP	25V
C 2025	189P125010	TANTALUM CHIP	25V
C 2026	189P125010	TANTALUM CHIP	25V
C 2027	181P506000	ELECTROLYTIC CHIP	50V0.47μF-M
C 2028	189P125010	TANTALUM CHIP	25V
C 2029	189P123070	TANTALUM CHIP	16V10μF-M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2030	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2031	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2032	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 2033	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2034	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 2037	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2038	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2039	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 2040	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 2050	154P352000	CERAMIC CHIP	SL50V 22P-J
C 2080	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2103	154P355020	CERAMIC CHIP	SL50V 470P-J
C 2104	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2105	154P352040	CERAMIC CHIP	SL50V 33P-J
C 2106	154P355040	CERAMIC CHIP	SL25V 560P-J
C 2107	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2108	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2109	141P137040	CERAMIC CHIP	B25V0.022M
C 2110	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2111	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2112	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2113	154P351020	CERAMIC CHIP	SL50V 10P-J
C 2114	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2115	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2116	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2117	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2118	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2119	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2120	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2210	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2211	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2213	154P352000	CERAMIC CHIP	SL50V 22P-J
C 2214	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2215	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2401	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2402	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2403	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2404	141P136030	CERAMIC CHIP	F16V1μF-Z
C 301	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 302	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 303	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 304	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 305	141P136010	CERAMIC CHIP	F25V 0.47μF-Z
C 306	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 308	154P327060	CERAMIC CHIP	CH50V 4700PJ
C 310	141P140010	CERAMIC CHIP	B50V 220P-K
C 311	189P125010	TANTALUM CHIP	25V
C 312	154P355060	CERAMIC CHIP	SL25V 680P-J
C 313	154P327000	CERAMIC CHIP	SL50V 2700PJ
C 314	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 316	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 317	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 318	189P126030	TANTALUM CHIP	35V0.22M
C 319	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 320	141P142010	CERAMIC CHIP	B25V 0.01μF-K

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 321	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 322	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 323	189P096020	PLASTIC CHIP	100V 3300P-J
C 324	154P354040	CERAMIC CHIP	SL50V 220P-J
C 325	181P506030	ELECTROLYTIC CHIP	04W50V3.3μF-M
C 326	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 327	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 328	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 330	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 331	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 332	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 333	154P327060	CERAMIC CHIP	CH50V 4700PJ
C 3302	189P123010	TANTALUM CHIP	16V1μF-M
C 3312	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 3313	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 3314	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 3315	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 3316	189P120030	TANTALUM CHIP	4V10μF-M
C 3317	141P141050	CERAMIC CHIP	B50V 3300P-K
C 3318	189P126010	TANTALUM CHIP	35V0.1M
C 3319	141P140090	CERAMIC CHIP	B50V 1000P-K
C 3321	189P123010	TANTALUM CHIP	16V1μF-M
C 3AA	189P123040	TANTALUM CHIP	16V3.3M
C 400	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 401	141P139030	CERAMIC CHIP	B25V 0.1μF-K
C 402	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 403	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 404	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 405	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 406	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 407	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 408	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 409	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 410	189P122030	CERAMIC CHIP	10V4.7μF-M
C 420	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 421	154P343050	CERAMIC CHIP	CH50V 100P-J
C 422	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 423	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 424	141P140090	CERAMIC CHIP	B50V 1000P-K
C 425	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 426	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 427	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 428	154P355040	CERAMIC CHIP	SL25V 560P-J
C 429	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 430	141P136030	CERAMIC CHIP	F16V1μF-Z
C 431	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 432	141P141010	CERAMIC CHIP	B50V 1500P-K
C 434	141P134010	CERAMIC CHIP	F50V0.047M
C 435	141P136030	CERAMIC CHIP	F16V1μF-Z
C 436	141P140090	CERAMIC CHIP	B50V 1000P-K
C 450	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 451	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 452	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 453	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 454	181P502030	ELECTROLYTIC CHIP	16V10μF-M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 455	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 456	141P136000	CERAMIC CHIP	F25V 0.33μF-Z
C 480	189P095010	POLYESTER	50V 0.033μF-J
C 481	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 482	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 483	141P141030	CERAMIC CHIP	B50V 2200P-K
C 4A0	141P141080	CERAMIC CHIP	B50V 5600P-K
C 4A1	141P137090	CERAMIC CHIP	B25V0.056M
C 4A2	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 4A3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4A4	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4B0	141P140090	CERAMIC CHIP	B50V 1000P-K
C 4B1	141P140090	CERAMIC CHIP	B50V 1000P-K
C 4B2	141P132030	CERAMIC CHIP	B50V0.015M
C 4B3	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4B4	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4C0	181P516010	ELECTROLYTIC CHIP	04W 50V 1MBP
C 4C1	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4F0	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 4F1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4001	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4002	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4004	154P341090	CERAMIC CHIP	CH50V 22P-J
C 4005	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4006	154P342010	CERAMIC CHIP	CH50V 27P-J
C 4007	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4008	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4009	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4010	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 4011	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4012	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4013	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 4014	154P340060	CERAMIC CHIP	CH50V 5P-C
C 4015	154P344030	CERAMIC CHIP	CH50V 220P-J
C 4016	154P343090	CERAMIC CHIP	CH50V 150P-J
C 5A0	141P137090	CERAMIC CHIP	B25V0.056M
C 5A2	141P132030	CERAMIC CHIP	B50V0.015M
C 5A5	141P140090	CERAMIC CHIP	B50V 1000P-K
C 5A6	154P324040	CERAMIC CHIP	SL50V220P-J
C 5B0	154P341070	CERAMIC CHIP	CH50V 18P-J
C 5B1	154P341070	CERAMIC CHIP	CH50V 18P-J
C 5B2	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 5B3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 5B5	141P140030	CERAMIC CHIP	B50V 330P-K
C 5FA	189P123040	TANTALUM CHIP	16V3.3M
C 5FB	141P136030	CERAMIC CHIP	F16V1μF-Z
C 5FC	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 601	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 602	154P343050	CERAMIC CHIP	CH50V 100P-J
C 603	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 604	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 605	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 606	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 607	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 608	141P143080	CERAMIC CHIP	F50V 0.01μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 609	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 610	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 611	141P136010	CERAMIC CHIP	F25V 0.47 μF-Z
C 612	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 613	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 615	181P500040	ELECTROLYTIC CHIP	6.3V100 μF-M
C 616	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 618	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 620	189P121010	TANTALUM CHIP	6.3V3.3 μF-M
C 621	181P500040	ELECTROLYTIC CHIP	6.3V100 μF-M
C 623	154P341010	CERAMIC CHIP	CH50V 10P-C
C 624	181P500040	ELECTROLYTIC CHIP	6.3V100 μF-M
C 625	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 626	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 628	189P122030	TANTALUM CHIP	10V4.7 μF-M
C 630	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 632	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 634	154P343050	CERAMIC CHIP	CH50V 100P-J
C 635	154P343050	CERAMIC CHIP	CH50V 100P-J
C 636	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 637	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 638	141P136010	CERAMIC CHIP	F25V 0.47 μF-Z
C 639	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 640	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 641	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 642	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 643	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 644	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 645	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 646	154P343050	CERAMIC CHIP	CH50V 100P-J
C 647	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 648	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 649	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 650	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 651	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 652	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 653	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 654	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 655	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 656	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 657	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 658	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 659	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 660	181P500040	ELECTROLYTIC CHIP	6.3V100 μF-M
C 661	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 662	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 663	141P136030	CERAMIC CHIP	F16V1 μF-Z
C 666	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 667	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 668	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 669	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 670	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 7AA	181P500030	ELECTROLYTIC CHIP	04W6.3V47 μF-M
C 7AB	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7AC	181P500030	ELECTROLYTIC CHIP	04W6.3V47 μF-M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 7AD	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7CD	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7CE	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7CL	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7CM	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7CN	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7CP	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 7CR	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7CS	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7CV	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7DA	154P342030	CERAMIC CHIP	CH50V 33P-J
C 7DB	154P342030	CERAMIC CHIP	CH50V 33P-J
C 7DC	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 7FP	141P136000	CERAMIC CHIP	F25V 0.33 μF-Z
C 7GA	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7GB	141P142010	CERAMIC CHIP	B25V 0.01 μF-K
C 7LL	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 7MA	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 7PA	181P500030	ELECTROLYTIC CHIP	04W6.3V47 μF-M
C 7PB	181P500080	ELECTROLYTIC CHIP	04W10V 33 μF-M
C 7PC	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 7PD	181P500080	ELECTROLYTIC CHIP	04W10V 33 μF-M
C 7PS	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 7ZA	141P136000	CERAMIC CHIP	F25V 0.33 μF-Z
C 7ZB	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 8A1	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8A2	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 8A3	154P343050	CERAMIC CHIP	CH50V 100P-J
C 8A4	154P343050	CERAMIC CHIP	CH50V 100P-J
C 8A5	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8000	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8005	154P342010	CERAMIC CHIP	CH50V 27P-J
C 8006	154P340070	CERAMIC CHIP	CH50V 6P-C
C 8007	154P340080	CERAMIC CHIP	CH50V 7P-C
C 8008	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8010	141P140090	CERAMIC CHIP	B50V 1000P-K
C 8011	141P140090	CERAMIC CHIP	B50V 1000P-K
C 8012	154P342010	CERAMIC CHIP	CH50V 27P-J
C 8013	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 8014	154P350070	CERAMIC CHIP	SL50V 5P-C
C 8015	141P134010	CERAMIC CHIP	F50V0.047M
C 8700	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 8701	181P500030	ELECTROLYTIC CHIP	04W6.3V47 μF-M
C 8702	181P502030	ELECTROLYTIC CHIP	16V10 μF-M
C 8703	154P342030	CERAMIC CHIP	CH50V 33P-J
C 8704	154P342030	CERAMIC CHIP	CH50V 33P-J
C 8705	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8706	181P506040	ELECTROLYTIC CHIP	04W50V4.7M
C 8707	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8708	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8709	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8710	141P143080	CERAMIC CHIP	F50V 0.01 μF-Z
C 8711	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 8712	141P135080	CERAMIC CHIP	F25V0.1 μF-Z
C 8713	141P135080	CERAMIC CHIP	F25V0.1 μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 8714	141P135080	CERAMIC CHIP	F25V0. 1 μ F-Z
C 900	141P137040	CERAMIC CHIP	B25V0. 022M
C 901	141P137040	CERAMIC CHIP	B25V0. 022M
C 902	141P137040	CERAMIC CHIP	B25V0. 022M
C 903	141P137040	CERAMIC CHIP	B25V0. 022M
C 904	141P140050	CERAMIC CHIP	B50V 470P-K
C 905	154P343030	CERAMIC CHIP	CH50V 82P-J
C 906	154P355040	CERAMIC CHIP	SL25V 560P-J
C 907	141P136030	CERAMIC CHIP	F16V1 μ F-Z
C 923	141P136030	CERAMIC CHIP	F16V1 μ F-Z
C 924	141P136030	CERAMIC CHIP	F16V1 μ F-Z
C 925	141P136030	CERAMIC CHIP	F16V1 μ F-Z
C 926	141P131080	CERAMIC CHIP	B50V5600P-K
C 928	141P135080	CERAMIC CHIP	F25V0. 1 μ F-Z
C 930	141P135080	CERAMIC CHIP	F25V0. 1 μ F-Z
C 931	181P502060	ELECTROLYTIC CHIP	16V47 μ F-M
C 932	181P500080	ELECTROLYTIC CHIP	04W10V 33 μ F-M
C 933	141P135080	CERAMIC CHIP	F25V0. 1 μ F-Z
C 945	141P137040	CERAMIC CHIP	B25V0. 022M
C 950	181P502060	ELECTROLYTIC CHIP	16V47 μ F-M
C 952	141P132090	CERAMIC CHIP	B50V0. 047M
C 955	154P343070	CERAMIC CHIP	CH50V 120P-J
C 956	141P132090	CERAMIC CHIP	B50V 0. 047 μ F-K
C 957	141P136030	CERAMIC CHIP	F16V1 μ F-Z
C 961	181P503090	ELECTROLYTIC CHIP	25V33 μ F-M
C 963	181P500080	ELECTROLYTIC CHIP	04W10V 33 μ F-M
C 964	181P503090	ELECTROLYTIC CHIP	25V33 μ F-M
C 966	181P500080	ELECTROLYTIC CHIP	04W10V 33 μ F-M
C 967	181P500040	ELECTROLYTIC CHIP	6. 3V100 μ F-M
C 980	181P502040	ELECTROLYTIC CHIP	04W16V 22 μ F-M
C 981	181P500040	ELECTROLYTIC CHIP	6. 3V100 μ F-M
VC0SA	202P220020	TRIMMER CHIP-C	5P-20P 4KA
VC4001	202P221010	TRIMMER CHIP	4P-25P
VC601	202P220060	TRIMMER CHIP	15P-60
VC8000	202P220030	TRIMMER CHIP	7P-30P

SWITCHES

	215C374010	FPC SWITCH	
S 3300	431C075030	SLIDE SWITCH	WIND NOISE FILTER
S 8A1	432D100010	KEY BOARD SWITCH	FADE
S 8A2	432D100010	KEY BOARD SWITCH	DATE / TIME
S 8A3	432D100010	KEY BOARD SWITCH	COUNTER RESET
S 8A4	432D100010	KEY BOARD SWITCH	COUNTER MEMORY
S 8A5	432D100010	KEY BOARD SWITCH	WHITE BALANCE
S 8A6	432D100010	KEY BOARD SWITCH	SHUTTER SPEED
S 8A7	432D100010	KEY BOARD SWITCH	FOCUS
S 8A8	431C074010	SLIDE SWITCH	FULL AUTO
SW501	431C086010	SLIDE SWITCH	STAND BY
SW503	432P090010	KEY BOARD SWITCH	START / STOP
SW571	439P015010	LEAF SWITCH	
SW572	439P015010	LEAF SWITCH	
SW573	439P013020	LIMIT SWITCH	
SW574	439P014020	MODE SWITCH	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION

MISCELLANEOUS

F 900	283D047060	FUSE	3. 15A-T
J 2F0	451C112020	JACK	8P SW-TSUKI
J 3301	451C113010	MICROPHONE JACK	
J 900	451C099020	POWER JACK	
T 480	409P527010	FE-OSC-COIL-CHIP	6304-087
X 0SA	285P106010	CRYSTAL RESONATOR	
X 5A0	285P102010	CRYSTAL RESONATOR	
X 601	285P116010	CRYSTAL RESONATOR	
X 7AA	299P126020	CERAMIC OSC CHIP	CSAC4. 00
Z 8A1	289P021020	LCD	
X 8000	285P084010	CRYSTAL RESONATOR	
Z 900	266P928040	PROTECTOR IC	1CP-F25
Z 901	266P928020	PROTECTOR IC	1CP-F15

PRINTED CIRCUIT BOARDS

928B756020	CM PCB ASSY
928C549010	EC PCB ASSY
928C535020	HA PCB ASSY
928C538030	LCD PCB ASSY
928B796010	MAIN PCB ASSY
928B759020	MDA PCB ASSY
928C537020	MIC-AMP PCB ASSY
928C536030	SUB OPE PCB ASSY
928B795010	PC PCB ASSY
928C532020	SD PCB ASSY
928C527010	SENS PCB ASSY
928B797010	SIGNAL PCB ASSY
928C546010	TRIGGER PCB ASSY
928C584002	S-SUB PCB ASSY
[illegible]C602001	PC-SUB PCB ASSY

WARNING

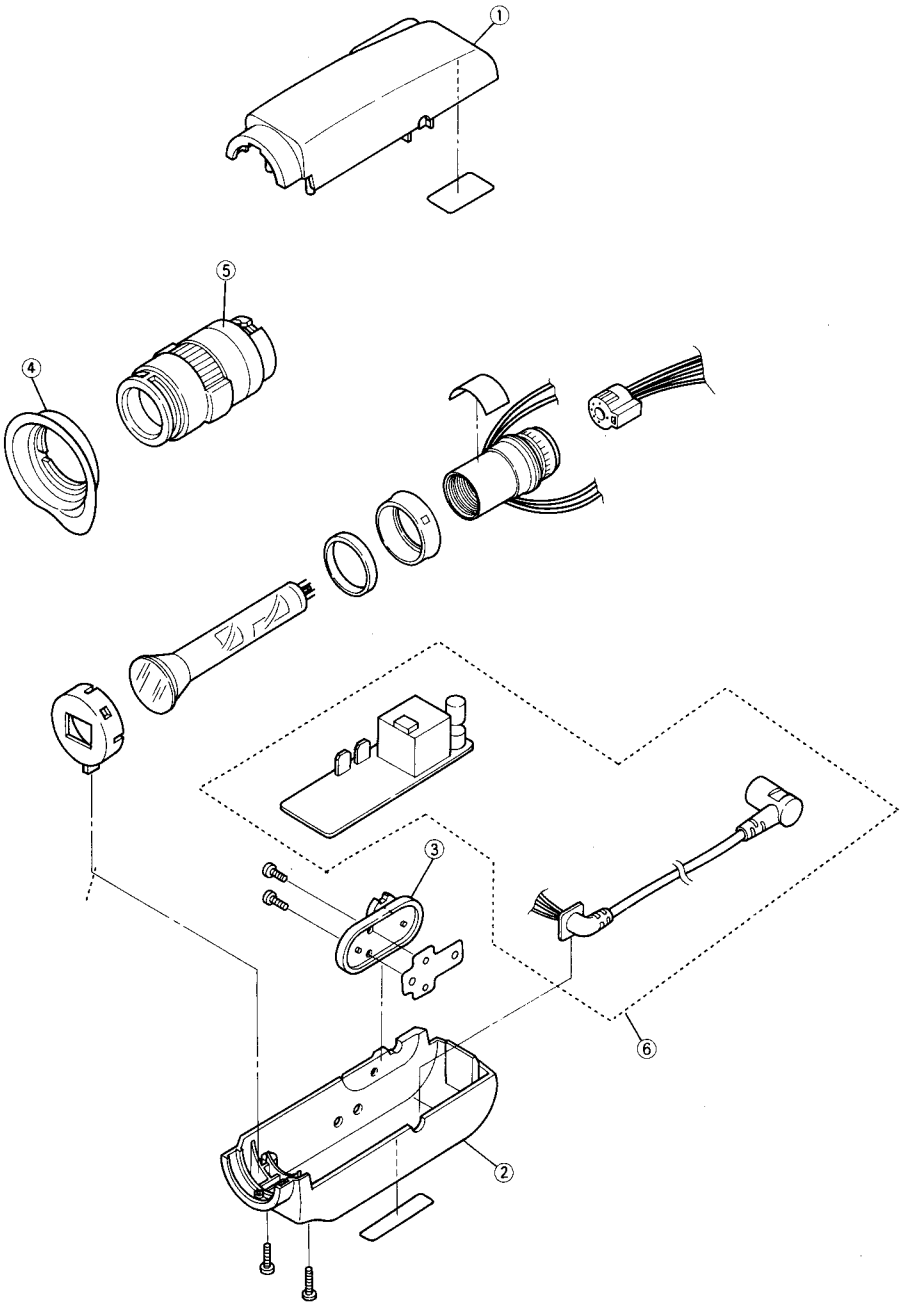
"Lithium battery. Replace battery only with the same type ordered from Mitsubishi, Parts number : 283P035020 (CR2025) Use of another battery may present a risk of fire or explosion. Do not recharge, disassemble or dispose battery to fire. "

AC POWER ADAPTER PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	242D368010	AC CORD	
	700D026030	TOP COVER	
	700D026040	BOTTOM COVER	
	703D092010	LED LENS COVER	
S1	439D037010	SWICH	
T0	451D057010	DC OUT JACK	
	458D022010	TERMINAL	
	242C977010	DC OUT CABLE	
IC21	266D100030	IC	AN78L05
IC22	266D100040	IC	AN6562
IC51	266D100010	IC	M51977FP
IC71	266D100060	IC	HA0125300
IC72	266D100070	IC	μPC393G
Q1	260D212010	TRANSISTOR	2SK903
Q21	260D212080	TRANSISTOR	2SB952
Q22	260D212090	TRANSISTOR	2SD639
Q71	260D213010	TRANSISTOR	UN2113
Q72	260D213010	TRANSISTOR	UN2113
Q73	260D213020	TRANSISTOR	UN2114
Q74	260D213030	TRANSISTOR	UN2219
D1	264D121020	DIODE	S1WBA60
D2	264D121030	DIODE	ERA22-08
D3	264D121050	DIODE	ERA22-02
D4	264D121040	DIODE	ERA15-01
D5	264D122070	DIODE	MA165
D21	264D122050	DIODE	MA649
D22	264D122060	DIODE	ERBB1-004
D23	264D122070	DIODE	MA165
D24	264D122080	DIODE	MA175WK
D71	264D122090	DIODE	MA-151WA
LED1	264D124010	LIGHT EMITTING DIODE	LN21RPHL
LED2	264D124010	LIGHT EMITTING DIODE	LN21RPHL
ZD1	264D122010	ZENERDIODE	MA4200
ZD21	264D122010	ZENER DIODE	MA4200
ZD22	264D124020	ZENERDIODE	MA4039
ZD23	264D124030	ZENERDIODE	MA4051
ZD24	264D124030	ZENERDIODE	MA4051
ZD51	264D122020	ZENERDIODE	MA3300
ZD52	264D122030	ZENERDIODE	MA3047

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PHC1	268D012030	PHOTO CUPLER	PC111
F1	283D079070	FUSE	
HF1	283D079060	THERMAL FUSE	
T1	350D041030	TRANSFORMER	ETS22K858A
X21	299D178010	OSCILLATOR	KBR-4.0MES
VR21	129D164070	VR-SEMIFIXED	0.1W 1KΩ
VR22	129D164080	VR-SEMIFIXED	0.1W 50KΩ

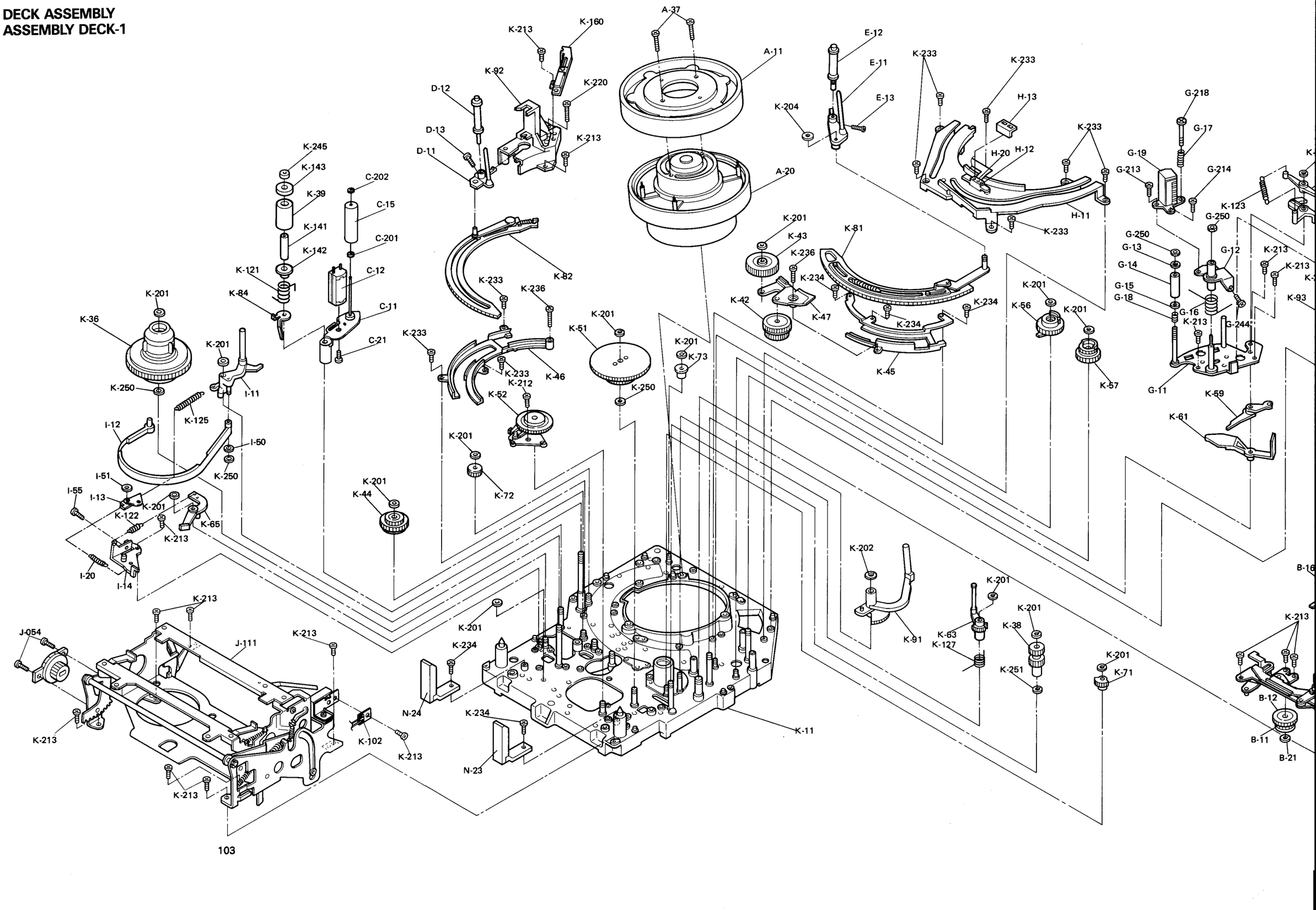
4. EVF Unit Parts

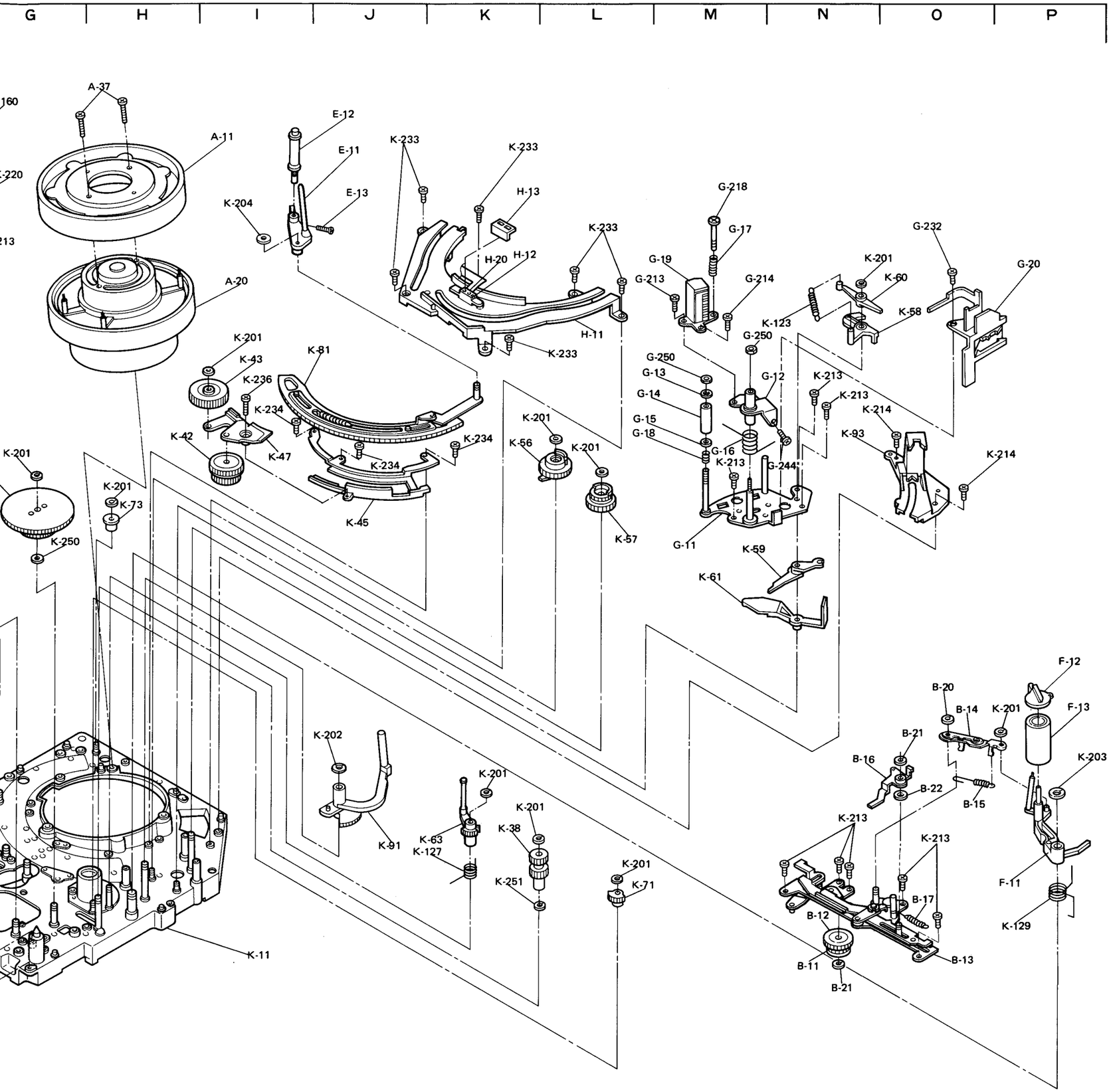


○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	1	701D071040	TOP COVER	
○	2	701D071060	BOTTOM COVER	
○	3	621D683010	SHUE	
○	4	765D039020	EYE CAP	
○	5	409D009030	LENS ASSY	
○	6	242D368030	PCB UNIT	

DECK ASSEMBLY
ASSEMBLY DECK-1



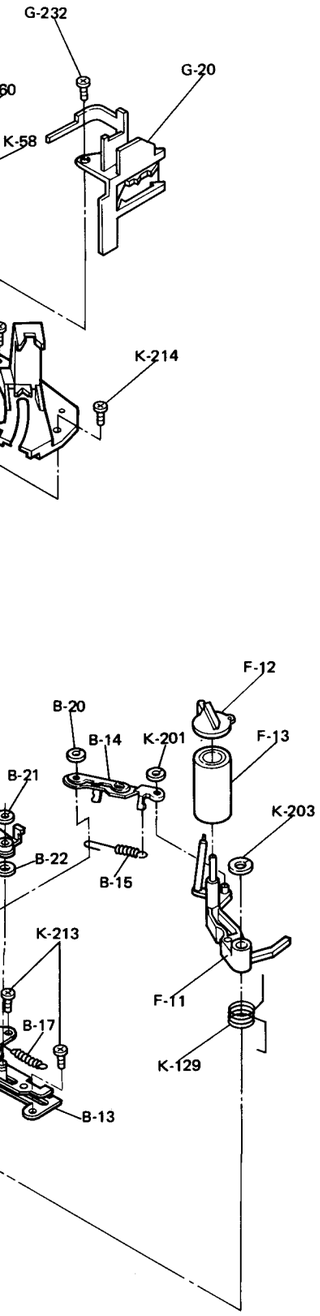


* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS	PARTS NAME	DESCRIPTION	Qt.
	948B221010	○		ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739090	○	I-1	ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2	MOTOR-DRUM	M 571	01
A-37	669D340020		G-1 H-1	SCREW-SEMS	M2×0.4	02
	948C231010			ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8	CAM-LOAD-A		01
B-12	621D561010		N-8	GEAR-LA4		01
B-13	592C805010		O-8	HOLDER-C-SLIDE		01
B-14	592C897010		O-6	ROD-PINCH		01
B-15	572D336010		O-7	SPRING-P		01
B-16	592C833010		O-7	LEVER-GEAR-LOCK		01
B-17	572D350010		O-8	SPRING-RS		01
B-20	552C009030	○	O-6	CUT-WASHER		01
B-21	552C007010	○	O-7 N-8	CUT-WASHER		02
B-22	552C001020		O-7	WASHER-THRUST		01
	928D034010	○		ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4	ARM-FE-A		01
C-15	631D231010		D-3	ROLLER-IMP-A		01
C-12	460P074020	○	D-4	HEAD-FE	T 571	01
C-21	669D207010		D-4	SCREW-S-S	M2×0.4-2.2	01
C-201	552C001010		D-3	WASHER-THRUST		01
C-202	552C009030		D-3	CUT-WASHER		01
	948D021010	○		ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2	TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2	GUIDE-ROLLER		01
D-13	669D334010		E-2	SCREW	M1.5×0.25	01
	948D022010	○		ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2	TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1	GUIDE-ROLLER		01
E-13	669D334010		J-2	SCREW	M1.2×0.25	01
	948C232010	○		ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7	ARM-PINCH		01
F-12	621D643010		P-6	CAP-PINCH		01
F-13	522C080010	○	P-6	PINCH-ROLLER		01
	928B747010	○		ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4	BASE-AC-MAIN-A		01
G-12	592C797010		M-3	ARM-AC		01
G-13	631D177010		M-3	FLANGE-GP-U		01
G-14	631D111010		M-4	GUIDE-POLE		01
G-15	631D176010		M-4	FLANGE-GP-L		01
G-16	572D347010		M-4	SPRING-ARM-AC		01
G-17	572D382010		M-2	SPRING-AC		01
G-18	572D207010		M-4	SPRING-G-P		01
G-19	460P073020	○	M-2	HEAD-AC	T 572	01
G-20	641C887010		O-3	HOLDER-LEAD-AC		01
G-213	669D277030		M-3	SCREW	M1.7×0.35×3	01
G-214	669D335010		M-3	SCREW	M1.7×0.35-4	01
G-218	669D344010		M-2	SCREW-FLANGE	M1.7×0.35-7.2	01
G-232	669D315020		O-2	SCREW	M1.7×0.35-2	01
G-244	669D277050		N-3	SCREW	M1.7×0.35×4	01
G-250	674D093010		M-3 M-3	NUT-S		02
	928C525010	○		ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3	GUIDE-SLIDER-A		01
H-12	641C834010		K-2	HOLDER-LED		01
H-13	641C834020		K-2	HOLDER-LED		01
H-20	264P526010		K-2	DIODE-LE	D571(LN-57)	01

* Settelled Service

ITEM	PARTS No.
	948C233010
I-11	641B340010
I-12	641B352010
I-13	621D570010
I-14	592C801010
I-20	572D383010
I-50	552C009010
I-51	552C007010
I-55	669D381010
J-111	591B595010
J-032	641C721010
J-054	(054)
K-11	948B219010
K-36	522B027020
K-38	641C868010
K-39	621D393010
K-42	621D562010
K-43	621D563010
K-44	621D564010
K-45	641C855010
K-46	641C856010
K-47	621D584010
K-51	522B032010
K-52	522B035010
K-56	641C836010
K-57	641C837010
K-58	641C838010
K-59	641C839010
K-60	641C840010
K-61	641C841010
K-63	635C088010
K-65	641C845010
K-71	641C846010
K-72	621D566010
K-73	621D580010
K-81	591B578010
K-82	591B579010
K-84	596D118010
K-91	635B067010
K-92	635B062010
K-93	635B063010
K-102	299P115020
K-121	572D438010
K-122	572D335010
K-123	572D346010
K-125	572D349010
K-127	572D351010
K-129	570C054010
K-141	631D108010
K-142	631D178010
K-143	631D179010
K-160	299C023010
K-201	552C007010
K-202	552C007020
K-203	552C007050



* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948B221010	○			ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739090	○	I-1		ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2		MOTOR-DRUM	M 571	01
A-37	669D340020		G-1	H-1	SCREW-SEMS	M2×0.4	02
	948C231010				ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8		CAM-LOAD-A		01
B-12	621D561010		N-8		GEAR-LA4		01
B-13	592C805010		O-8		HOLDER-C-SLIDE		01
B-14	592C897010		O-6		ROD-PINCH		01
B-15	572D336010		O-7		SPRING-P		01
B-16	592C833010		O-7		LEVER-GEAR-LOCK		01
B-17	572D350010		O-8		SPRING-RS		01
B-20	552C009030	○	O-6		CUT-WASHER		01
B-21	552C007010	○	O-7	N-8	CUT-WASHER		02
B-22	552C001020		O-7		WASHER-THRUST		01
	928D034010	○			ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4		ARM-FE-A		01
C-15	631D231010		D-3		ROLLER-IMP-A		01
C-12	460P074020	○	D-4		HEAD-FE	T 571	01
C-21	669D207010		D-4		SCREW-S-S	M2×0.4-2.2	01
C-201	552C001010		D-3		WASHER-THRUST		01
C-202	552C009030		D-3		CUT-WASHER		01
	948D021010	○			ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2		TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2		GUIDE-ROLLER		01
D-13	669D334010		E-2		SCREW	M1.5×0.25	01
	948D022010	○			ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2		TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1		GUIDE-ROLLER		01
E-13	669D334010		J-2		SCREW	M1.2×0.25	01
	948C232010	○			ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7		ARM-PINCH		01
F-12	621D643010		P-6		CAP-PINCH		01
F-13	522C080010	○	P-6		PINCH-ROLLER		01
	928B747010	○			ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4		BASE-AC-MAIN-A		01
G-12	592C797010		M-3		ARM-AC		01
G-13	631D177010		M-3		FLANGE-GP-U		01
G-14	631D111010		M-4		GUIDE-POLE		01
G-15	631D176010		M-4		FLANGE-GP-L		01
G-16	572D347010		M-4		SPRING-ARM-AC		01
G-17	572D382010		M-2		SPRING-AC		01
G-18	572D207010		M-4		SPRING-G-P		01
G-19	460P073020	○	M-2		HEAD-AC	T 572	01
G-20	641C887010		O-3		HOLDER-LEAD-AC		01
G-213	669D277030		M-3		SCREW	M1.7×0.35×3	01
G-214	669D335010		M-3		SCREW	M1.7×0.35-4	01
G-218	669D344010		M-2		SCREW-FLANGE	M1.7×0.35-7.2	01
G-232	669D315020		O-2		SCREW	M1.7×0.35-2	01
G-244	669D277050		N-3		SCREW	M1.7×0.35×4	01
G-250	674D093010		M-3	M-3	NUT-S		02
	928C525010	○			ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3		GUIDE-SLIDER-A		01
H-12	641C834010		K-2		HOLDER-LED		01
H-13	641C834020		K-2		HOLDER-LED		01
H-20	264P526010		K-2		DIODE-LE	D571(LN-57)	01

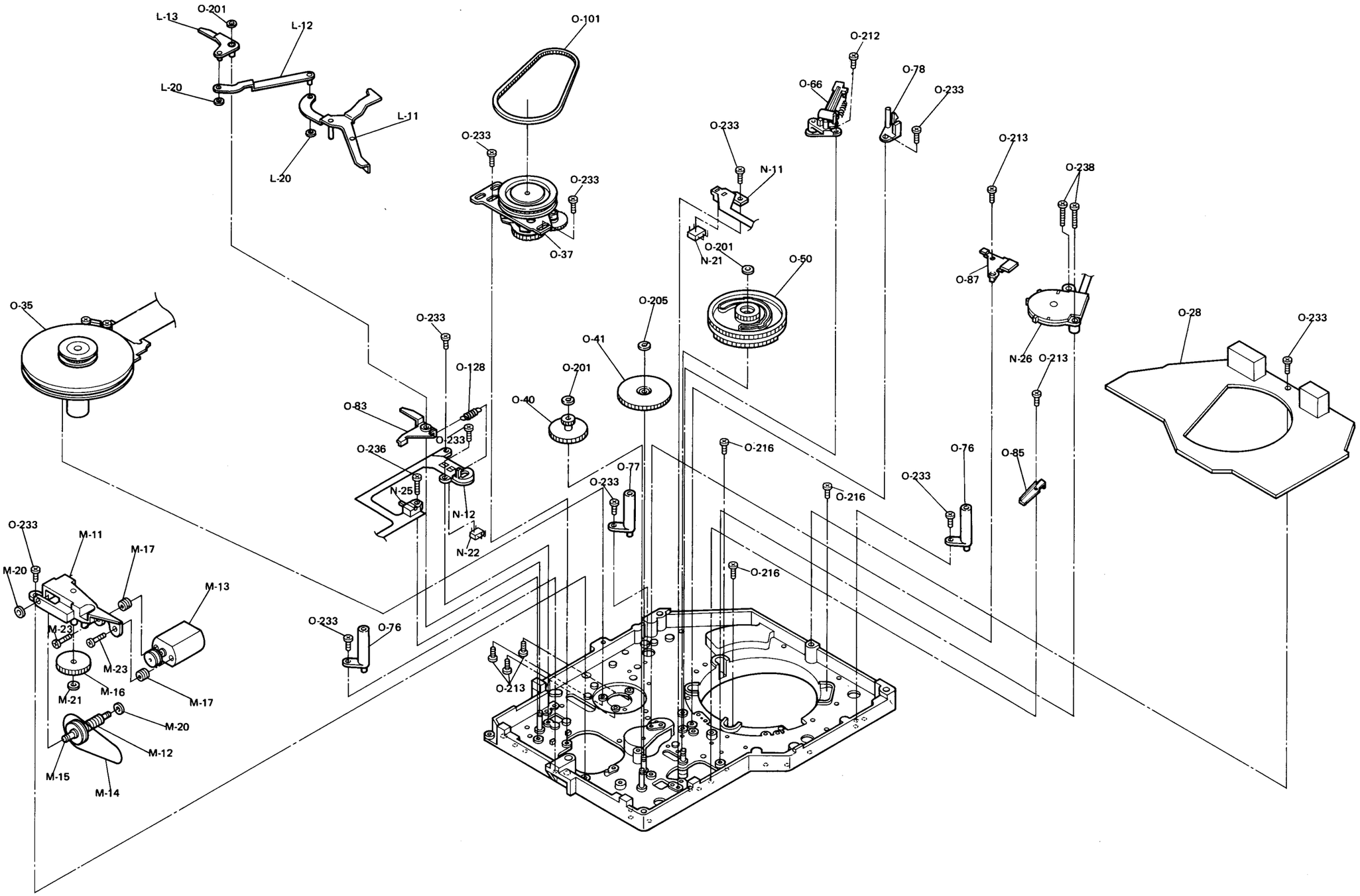
* Settelled Service Parts

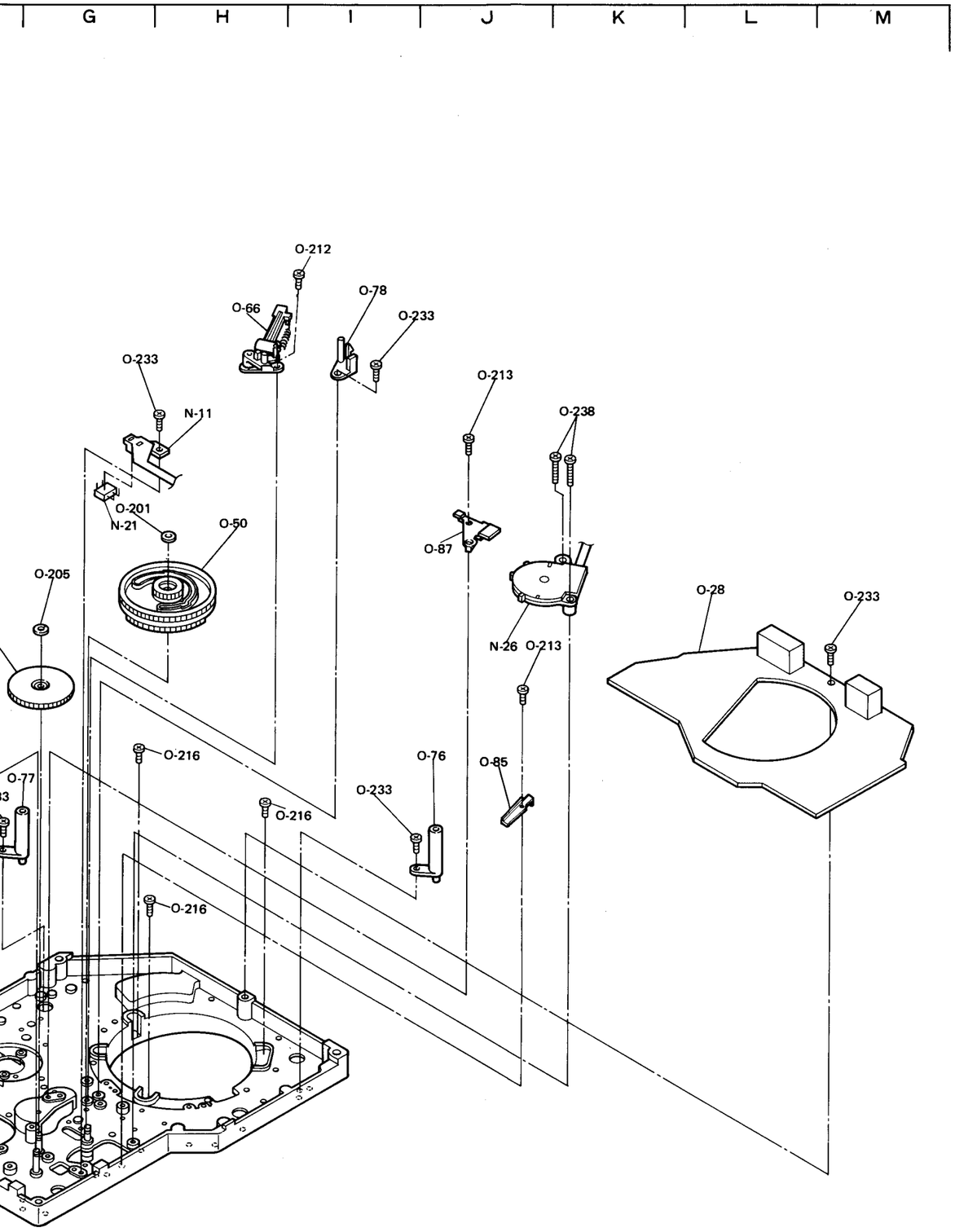
ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948C233010	○			ASSY-ARM-TENS	INCLUDE I-11～I-55	01
I-11	641B340010		C-5		ARM-TENSION		01
I-12	641B352010		B-5		BELT-TENS-A		01
I-13	621D570010		B-6		HOLDER-TENS-2A		01
I-14	592C801010		B-7		HOLDER-TENS-A		01
I-20	572D383010		A-7		SPRING-H-TENS		01
I-50	552C009010	○	C-5		CUT-WASHER		01
I-51	552C007010	○	B-6		CUT-WASHER		01
I-55	669D381010		A-6		SCREW	M1.7×0.35×6	01
J-111	591B595010	○	C-7		UNIT-C-HOU-A	INCLUDE J-032～J-054	01
J-032	641C721010	○	A-7		DAMPER-HOU		01
J-054	(054)		A-7	A-8	SCREW	M1.7-2	02
K-11	948B219010		I-8		ASSY-PLATE-MAIN		01
K-36	522B027020	○	B-4		REEL-DISK		01
K-38	641C868010		K-7		GEAR-TU1-A		01
K-39	621D393010	○	D-3		ROLLER-IMP		01
K-42	621D562010		I-4		GEAR-LA5		01
K-43	621D563010		I-3		GEAR-LA6		01
K-44	621D564010		E-6		GEAR-LA7		01
K-45	641C855010		J-4		HOLDER-RA		01
K-46	641C856010		F-4		HOLDER-RB		01
K-47	621D584010		I-4		HOLDER-RC		01
K-51	522B032010	○	G-4		GEAR-REEL-A		01
K-52	522B035010	○	F-5		UNIT-GEAR-REEL-LOCK		01
K-56	641C836010		L-4		CAM-GEAR-SL		01
K-57	641C837010		L-4		CAM-GEAR-SS		01
K-58	641C838010		N-3		ARM-SET-SU		01
K-59	641C839010		N-5		ARM-SET-SL		01
K-60	641C840010		N-3		ARM-SET-LU		01
K-61	641C841010		N-5		ARM-SET-LL		01
K-63	635C088010		K-7		ARM-TU-G		01
K-65	641C845010		C-6		BRAKE-S		01
K-71	641C846010		L-8		GEAR-TU-G		01
K-72	621D566010		F-6		GEAR-RING		01
K-73	621D580010		H-4		ROLLER-RING		01
K-81	591B578010		J-4		UNIT-RING-SA		01
K-82	591B579010		F-3		UNIT-RING-TA		01
K-84	596D118010		C-4		WASHER-IMP		01
K-91	635B067010	○	J-7		ARM-SLANT		01
K-92	635B062010	○	F-2		STOPPER-TG-SP		01
K-93	635B063010	○	O-4		STOPPER-TG-TU		01
K-102	299P115020	○	D-8		SENSOR-H	Z 571	01
K-121	572D438010		C-4		SPRING-IMP		01
K-122	572D335010		B-6		SPRING-TENS		01
K-123	572D346010		N-3		SPRING-AS		01
K-125	572D349010		C-5		SPRING-S		01
K-127	572D351010		K-8		SPRING-RP		01
K-129	570C054010		P-8		SPRING-PINCH		01
K-141	631D108010		D-3		SLEEVE-IMP		01
K-142	631D178010		D-3		FLANGE-IMP-LA		01
K-143	631D179010		D-3		FLANGE-IMP-U		01
K-160	299C023010	○	G-1		BRUSH		01
K-201	552C007010	○	B-4	C-4	CUT-WASHER		16
			E-6	F-5			
			G-4	I-3			
			L-4	L-4			
			N-2	P-6			
			L-8	K-7			
			K-7	F-7			
			H-4	B-4			
K-202	552C007020	○	J-7		CUT-WASHER		01
K-203	552C007050	○	P-7		CUT-WASHER		01

* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
K-204	552C009040	○	I-2		CUT-WASHER		01
K-212	669D227020		F-5		SCREW	M1.7×0.35×2	01
K-213	669D277030		A-8	B-7	SCREW	M1.7×0.35×3	18
			B-7	B-9			
			C-9	D-7			
			N-8	N-8			
			N-8	O-8			
			M-4	N-4			
			N-3	G-2			
			F-1	B-6			
			O-8	E-8			
K-214	669D277050		O-4	O-4	SCREW	M1.7×0.35×4	02
K-220	669D227010		G-2		SCREW	M1.7×0.35×10	01
K-233	669D315030		E-4	F-4	SCREW	M1.7×0.35-3	09
			F-4	J-2			
			J-2	K-2			
			L-2	L-2			
			K-3				
K-234	669D315050		I-4	J-4	SCREW	M1.7×0.35-4	05
			K-4	E-8			
			F-8				
K-236	669D315070		I-3	F-4	SCREW	M1.7×0.35-6	02
K-245	674D081050	○	D-2		NUT-NYLON		01
K-250	552C001020		B-5	C-5	WASHER-THRUST		03
			G-5				
K-251	552C003020	○	K-8		WASHER-THRUST		01
N-23	439P015010	○	F-9		SW-LEAF	SW571	01
N-24	439P015010	○	E-8		SW-LEAF	SW572	01

ASSEMBLY DECK-2





* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948D023010	○			ASSY-LEVER-EJECT	INCLUDE L-11～L-13	01
L-11	592C806010		D-2		LEVER-EJ		01
L-12	596D122010		C-2		ROD-EJECT		01
L-13	596D119010		C-1		ARM-LOCK-EJECT		01
L-20	552C007010	○	D-2	C-2	CUT-WASHER		02
	928C526010	○			ASSY-L-MOTOR	INCLUDE M-11～M-23	01
M-11	641C832010		A-7		HOLDER-MOTOR		01
M-12	621D571010		B-8		WORM-LA		01
M-13	288P084030	○	B-7		MOTOR-LOADING	M 573	01
M-14	521D064010	○	B-8		BELT-L		01
M-15	631D173010		A-8		SHAFT-WORM		01
M-16	621D558010		A-7		GEAR-LA1		01
M-17	550D108010		B-7	B-7	RUBBER-M		02
M-20	552C009030	○	A-7	B-8	CUT-WASHER		02
M-21	552C007010	○	A-8		CUT-WASHER		01
M-23	669D344030		A-7	B-7	SCREW-FLANGE	M1.7×0.35-2.2	02
	928C527010	○			ASSY-PWB-SENS	INCLUDE N-11～N-26	01
N-11	641C824010		H-3		HOLDER-SENSE-SA		01
N-12	641C847010		E-6		HOLDER-SENS-TA		01
N-21	268P026010	○	G-3		PHOTO-INTERRUPTER	Q571(GP2L04-B)	01
N-22	268P026010	○	E-6		PHOTO-INTERRUPTER	Q572(GP2L04-B)	01
N-25	439P013020	○	D-6		SW-LIMIT	SW 573	01
N-26	439P014020	○	J-4		SW-MODE	SW 574	01
O-28	928B759020	○	L-5		ASSY-PWB-MDA		01
O-35	288P087010	○	A-4		MOTOR-CP	M 572	01
O-37	522C067020	○	F-3		REEL-IDLER		01
O-40	621D559010		F-5		GEAR-LA2		01
O-41	621D560010		G-5		GEAR-LA3		01
O-50	641B342010		H-4		CAM-GEAR-MA		01
O-66	641C863010		H-2		BRAKE-CP		01
O-76	621D589010		D-7	J-6	HOLDER-PWB-1		02
O-77	621D590010		F-6		HOLDER-PWB-2		01
O-78	621D594010		I-2		HOLDER-PWB-3		01
O-83	596D154010		D-5		LEVER-SW-A		01
O-85	596D219010		J-6		PLATE-EJ-H		01
O-87	596D155010		J-4		PLATE-CAM-H		01
O-101	521D061010	○	F-2		BELT-SYNC		01
O-128	572D360010		E-5		SPRING-SW-A		01
O-201	552C007010	○	C-1	F-5	CUT-WASHER		03
			H-4				
O-205	552C009070	○	G-4		CUT-WASHER		01
O-212	669D227020		I-2		SCREW	M1.7×0.35×2	01
O-213	669D277030		J-3	J-5	SCREW	M1.7×0.35×3	05
			E-7	E-7			
			F-7				
O-216	669D277070		H-6	H-6	SCREW	M1.7×0.35×6	03
			G-5				
O-233	669D315030		E-5	A-6	SCREW	M1.7×0.35-3	11
			E-3	F-3			
			E-5	D-7			
			F-6	I-6			
			I-2	M-5			
			H-3				
O-236	669D315070		E-6		SCREW	M1.7×0.35-6	01
O-238	669D315090		K-3	K-3	SCREW	M1.7×0.35-8	02

SCHEMATIC DIAGRAM

NOTE 1:

- DC voltages were measured from points indicated to the circuit ground with a Digital voltmeter.
- The voltages of camera section were measured with the Y/C MIX adapter.
- Waveforms of camera section were taken with the four color chart.
- Waveforms of VTR section were taken with standard color bar signal.
- The unit of resistance "ohm" entirely omitted.
  Accordingly, K=1000 ohms.
  M=1000K ohms.
- Resistors, not specifically designated, are R-M-chip resistors.
- The tolerance of resistor value, not specifically designated, is: ±5%.
- The unit of capacitance, not specifically designated, is:
  a) μF, for numbers less than 1
  b) PF, for numbers more than 1
- Capacitors, not specifically designated are Ceramic chip capacitors except electrolytic capacitors.
- The marks of capacitors are as follows:
  (TAN) : Tantalum capacitor
  ⧧ : Electrolytic capacitor
- The tolerance of capacitor value, not specifically designated is: ±10%
  and J = ±5% K = ±10% M = ±20% P = $^{+100\%}_{-\ 0\%}$
  C = ±0.25PF D = ±0.5PF F = ± 1PF Z = $^{+80\%}_{-20\%}$ N = ±30%
- Ceramic capacitors with the marks RH, UJ, SL, etc. are temperature compensating types.

SPECIFIC SYMBOL	
Zener Diode	Crystal unit
LE Diode	
Photo Diode	Ceramic filter

This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

DC VOLTAGE TABLES CAMERA(2-1)

※L : FOR LEFT SIDE TRANSISTOR IN SCHEMATIC DIAGRAM
R : FOR RIGHT SIDE TRANSISTOR IN SCHEMATIC DIAGRAM

PCB-SD

(LENS CAP ON) SHUTTER 1/50

TRANSISTOR

SYMBOL	E	C	B
Q0SA	7.9V	8.8V	8.6V
Q0SB	8.7V	15.0V	9.4V
Q0SC	4.7V	15.0V	5.2V
Q0SD	−7.0V	−8.2V	−7.6V
Q0SE	1.0V	4.9V	1.8V
Q0SF	12.8V	15.0V	13.4V
Q0SL	4.7V	8.9V	5.3V
Q0SM	4.7V	5.3V	5.3V

PCB-CM

WITH A SOURCE OF LIGHT 3200°K

IC7AA

PIN No.		PIN No.	
1	—	41	—
2	—	42	—
3	2.4V	43	—
4	2.5V	44	—
5	4.9V	45	—
6	—	46	0.8V
7	—	47	0V
8	—	48	0V
9	—	49	0.45V
10	0V	50	—
11	0V	51	—
12	—	52	—
13	—	53	—
14	—	54	1.6V
15	—	55	1.6V
16	—	56	2.0V
17	—	57	0.1V
18	—	58	GND
19	2.0V	59	GND
20	—	60	GND
21	—	61	GND
22	—	62	GND
23	—	63	2.4V
24	—	64	2.4V
25	0V	65	2.4V
26	4.9V	66	2.4V
27	—	67	1.8V
28	2.2V	68	4.9V
29	1.5V	69	4.9V
30	—	70	GND
31	—	71	4.9V
32	1.5V	72	4.9V
33	—	73	1.1V
34	—	74	—
35	—	75	~
36	—	76	—
37	4.9V	77	2.5V
38	4.6V	78	1.1V
39	0V	79	—
40	0V	80	—

IC7AB

PIN No.	
1	2.7V
2	2.7V
3	2.7V
4	4.9V
5	1.6V
6	1.6V
7	1.6V
8	0.5V
9	0.5V
10	0V
11	GND
12	1.0V
13	1.0V
14	1.0V

IC7AC

PIN No.	
1	2.7V
2	2.7V
3	2.7V
4	4.9V
5	0.8V
6	0.8V
7	0.8V
8	1.8V
9	1.8V
10	1.8V
11	GND
12	2.2V
13	2.2V
14	2.2V

IC7BA

PIN No.	
1	2.2V
2	—
3	1.6V
4	—
5	1.8V
6	0.1V
7	5.5V
8	GND
9	1.6V
10	1.6V
11	2.0V
12	0.8V
13	1.0V
14	1.4V
15	2.7V
16	4.9V

IC7WB

PIN No.	
1	GND
7	4.9V
8	2.3V
9	2.3V
10	2.4V

IC7ZC

PIN No.	
1	0V
2	3.4V
3	0V
4	GND
5	0V
6	3.4V
7	0V
8	4.9V

IC7ZM

PIN No.	
1	GND
2	0V
3	0V
4	12.0V
5	0V
6	—
7	0V
8	0V

TRANSISTOR

SYMBOL	E	C	B
Q7CA	L 4.9V R GND	4.9V 0V	0V 4.9V
Q7MA	GND	0V	0V
Q7PA	12.0V	12.0V	11.3V
Q7PB	GND	0V	4.9V

※

PCB-PC

(LENS CAP ON)

IC2AB

PIN No.		PIN No.	
1	0.83V	36	1.1V
2	1.8V	37	1.8V
3	1.2V	38	1.8V
4	1.2V	39	1.8V
5	3.2V	40	3.0V
6	1.9V	41	1.8V
7	1.9V	42	GND
8	3.2V		
9	1.9V		
10	1.9V		
11	1.8V		
12	1.8V		
13	1.8V		
14	1.8V		
15	3.0V		
16	1.1V		
17	2.5V		
18	3.2V		
19	3.2V		
20	1.8V		
21	4.9V		
22	1.2V		
23	1.9V		
24	2.5V		
25	1.8V		
26	1.6V		
27	2.8V		
28	1.8V		
29	1.7V		
30	1.7V		
31	1.9V		
32	1.6V		
33	1.8V		
34	1.8V		
35	1.9V		

IC2AJ

PIN No.	
1	1.8V
2	1.8V
3	1.8V
4	4.9V
5	1.8V
6	1.8V
7	GND
8	2.2V
9	GND
10	4.9V
11	2.2V
12	GND
13	2.4V
14	2.4V
15	4.9V
16	1.9V
17	1.9V
18	GND

IC2AB

PIN No.	
1	0.83V
2	1.8V
3	1.2V
4	1.2V
5	3.2V
6	1.9V
7	1.9V
8	3.2V
9	1.9V
10	1.9V
11	1.8V
12	1.8V
13	1.8V
14	1.8V
15	3.0V
16	1.1V
17	2.5V
18	3.2V
19	3.2V
20	1.8V
21	4.9V
22	1.2V
23	1.9V
24	2.5V
25	1.8V
26	1.6V
27	2.8V
28	1.8V
29	1.7V
30	1.7V

IC2AD

PIN No.	
1	1.2V
2	GND
3	GND
4	3.9V
5	4.9V

IC2AA

PIN No.	
1	1.8V
2	1.8V
3	1.8V
4	GND
5	1.9V
6	1.9V
7	0.5V
8	4.9V

IC5FA

PIN No.	
1	4.9V
2	1.8V
3	1.9V
4	—
5	—
6	—
7	1.8V
8	1.8V
9	1.4V
10	—
11	GND
12	—
13	—
14	—
15	—
16	—

IC5FB

PIN No.	
1	3.3V
2	GND
3	GND
4	—
5	4.9V

IC2AG

PIN No.	
1	1.5V
2	1.8V
3	1.8V
4	GND
5	1.8V
6	1.8V
7	1.7V
8	4.9V

IC2AL

PIN No.	
1	2.9V
2	2.5V
3	2.5V
4	GND
5	2.5V
6	2.5V
7	2.8V
8	4.9V

TRANSISTOR

SYMBOL	E	C	B
Q2AA	L 1.9V R 1.3V	GND 4.9V	1.3V 1.8V
Q2AC	L 1.8V R 1.5V	GND 4.9V	1.5V 2.1V
Q2AD	1.6V	4.9V	2.3V
Q2AE	L 1.6V R 1.7V	4.9V 4.9V	2.2V 2.2V
Q2AG	3.1V	4.9V	3.8V
Q2AH	L 1.1V R 1.2V	4.9V 3.8V	1.7V 1.8V
Q2AJ	L 1.7V R 1.5V	4.9V GND	2.3V 1.7V
Q2AK	2.4V	GND	1.8V
Q2AL	2.4V	GND	1.8V
Q2AM	2.4V	GND	1.8V
Q2AN	2.4V	GND	1.8V
Q2AP	2.4V	4.9V	2.4V
Q2AQ	1.9V	4.9V	1.3V
Q2AR	2.8V	4.9V	3.5V
Q2AW	L 1.2V R 2.8V	3.4V 4.9V	1.8V 3.4V
Q2AX	L 1.3V R 1.3V	4.8V 4.9V	1.8V 1.9V
Q2AY	L 1.2V R 1.2V	4.9V 4.8V	1.8V 1.7V
Q2AZ	4.9V	1.7V	4.8V
Q2GA	L 2.2V R 2.2V	4.9V 4.9V	0V 2.7V
Q2GB	2.7V	GND	2.2V
Q2GC	GND	0V	4.9V
Q2GD	1.8V	1.8V	0.2V
Q2GE	4.3V	4.9V	4.9V
Q2GF	L 1.1V R 1.2V	4.9V 3.5V	1.1V 1.7V
Q2GG	4.9V	4.8V	4.9V
Q3AA	1.4V	GND	0V
Q3BA	L 1.2V R 1.2V	4.9V 3.0V	1.8V 1.8V
Q3BB	L 2.5V R 1.8V	4.9V 4.9V	3.0V 2.4V

※

PCB-EC

IC2JD

PIN No.		PIN No.	
1	0V	31	GND
2	GND	32	GND
3	GND	33	GND
4	GND	34	GND
5	GND	35	GND
6	1.0V	36	GND
7	GND	37	GND
8	2.4V	38	3.3V
9	3.3V	39	4.9V
10	GND	40	2.3V
11	2.4V	41	GND
12	—	42	1.2V
13	GND	43	GND
14	4.9V	44	GND
15	2.4V		
16	2.4V		
17	GND		
18	0.8V		
19	GND		
20	—		
21	2.5V		
22	GND		
23	—		
24	—		
25	4.9V		
26	0.2V		
27	~		
28	4.5V		
29	GND		
30	GND		

IC2JM

PIN No.	
1	—
2	2.4V
3	GND
4	2.3V
5	4.9V

IC2JA

PIN No.	
1	—
2	—
3	—
4	—
5	—
6	4.9V
7	2.7V
8	2.6V
9	2.7V
10	2.7V
11	0.2V
12	2.6V
13	4.9V
14	3.5V
15	2.9V
16	GND
17	1.3V
18	1.7V
19	GND
20	2.4V
21	3.3V
22	3.6V
23	3.2V
24	3.2V
25	GND
26	—
27	—
28	—

IC2JB

PIN No.	
1	1.3V
2	GND
3	GND
4	3.6V
5	4.9V

IC2JH

PIN No.	
1	0V
2	GND
3	GND
4	4.8V
5	4.9V

IC2JK

PIN No.	
1	1.3V
2	GND
3	GND
4	3.7V
5	4.9V

IC2JL

PIN No.	
1	GND
2	2.8V
3	4.9V
4	2.4V
5	GND

IC2JC

PIN No.	
1	1.0V
2	GND
3	GND
4	3.8V
5	4.9V

IC2JE

PIN No.	
1	—
2	2.4V
3	GND
4	3.4V
5	4.9V

TRANSISTOR

SYMBOL	E	C	B
Q2JA	L 1.8V R 1.8V	4.9V 4.9V	2.5V 1.8V
Q2JC	L 4.9V R 3.4V	3.4V 4.9V	4.9V 1.3V
Q2JE	L 3.4V R 1.1V	4.9V 3.7V	3.7V 1.7V
Q2JK	1.1V	4.9V	1.7V
Q2JL	L 1.2V R 3.2V	2.5V 4.9V	1.8V 2.5V
Q2JW	2.5V	0V	1.9V
Q2JZ	2.4V	4.9V	2.6V
Q2KA	L 2.6V R 2.6V	2.6V 0V	0.2V 2.0V
Q2KB	L 1.8V R 2.9V	4.9V 4.9V	2.5V 3.5V
Q2KC	L 1.8V R 1.6V	3.5V 4.9V	1.2V 3.5V
Q2KD	L 1.7V R 1.7V	4.9V 4.9V	1.6V 2.3V
Q2KE	L 2.3V R 2.3V	0V 0V	1.7V 2.5V
Q2KF	2.5V	4.9V	3.2V
Q2KG	1.1V	4.9V	1.8V
Q2KJ	2.3V	4.9V	2.4V
Q2KK	1.2V	4.9V	1.8V
Q2KL	2.8V	0V	2.3V
Q2ZA	L 1.0V R 3.0V	3.7V 4.9V	1.6V 3.7V
Q2ZB	2.3V	0V	1.7V
Q2ZC	2.4V	4.9V	1.2V
Q2ZD	UPPER 1.3V LOWER 1.4V	0V 0V	0.9V 0.9V
Q2ZE	L 1.5V R 3.2V	1.1V 4.9V	3.2V 3.8V

※

CONTROL (PCB-MAIN)

IC5A0

PIN No.		PIN No.		PIN No.	
1	5.1(0.0)	28	5.1(5.1)	55	5.1(5.1)
2	0.0(0.0)	29	2.2(2.2)	56	0.0(0.0)
3	0.0(0.0)	30	1.0(1.0)	57	~(~)
4	3.9(0.0)	31	0.0(0.0)	58	3.0(3.1)
5	~(~)	32	0.0(0.0)	59	2.6(2.5)
6	~(~)	33	0.1(5.1)	60	2.1(2.2)
7	~(~)	34	5.1(0.1)	61	2.5(2.5)
8	~(~)	35	0.0(5.0)	62	2.6(2.6)
9	~(~)	36	4.7(4.7)	63	5.1(5.1)
10	~(~)	37	0.0(0.0)	64	0.0(0.0)
11	~(~)	38	0.0(0.0)	65	0.0(0.0)
12	5.1(5.1)	39	4.2(4.2)	66	0.0(5.1)
13	5.1(5.0)	40	0.0(0.0)	67	0.0(5.1)
14	~(~)	41	2.3(2.3)	68	5.1(5.0)
15	0.0(0.0)	42	2.3(2.3)	69	0.0(0.0)
16	0.0(0.0)	43	5.0(5.0)	70	0.0(0.0)
17	0.0(0.0)	44	5.1(5.1)	71	~(~)
18	5.0(5.0)	45	2.5(2.4)	72	0.0(0.0)
19	5.1(5.1)	46	2.6(2.6)	73	5.1(5.1)
20	5.0(5.0)	47	0.0(0.0)	74	5.1(5.1)
21	5.0(5.0)	48	0.0(0.0)	75	5.1(5.1)
22	4.7(4.7)	49	0.0(0.0)	76	0.0(0.0)
23	0.0(0.0)	50	0.0(0.0)	77	~(~)
24	4.7(4.7)	51	0.0(0.0)	78	0.0(0.0)
25	5.0(4.9)	52	5.1(5.1)	79	~(~)
26	3.9(4.1)	53	5.1(5.1)	80	~(~)
27	0.0(0.0)	54	5.1(5.1)		

IC4A0

PIN No.	
1	2.4(2.4)
2	2.6(2.6)
3	2.6(2.6)
4	0.0(0.0)
5	2.6(2.6)
6	2.6(2.6)
7	2.6(2.6)
8	4.9(5.0)

IC4A2

PIN No.	
1	0.0(0.0)
2	0.0(0.0)
3	0.0(0.0)
4	0.2(0.0)
5	0.0(0.0)
6	0.0(0.0)
7	10.2(10.1)
8	10.2(10.1)
9	0.1(0.0)
10	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2S0	4.9(4.9)	4.4(4.2)	0.0(0.0)
Q2S1	5.6(5.5)	5.0(5.0)	0.0(0.0)
Q2S2	2.7(2.5)	2.1(1.9)	0.0(0.0)
Q5A0	0.0(0.0)	0.6(0.6)	0.0(0.0)
Q5A4	0.0(0.0)	~(~)	~(~)
Q5A5	5.1(5.1)	5.1(5.1)	~(~)
Q5B0	5.0(5.0)	4.7(4.7)	5.0(5.0)
Q5B1	5.0(5.0)	0.0(0.0)	4.9(5.0)
Q4B1	5.1(5.1)	5.1(5.1)	2.5(2.4)
Q4B2	5.0(5.0)	5.0(5.0)	4.9(5.0)
Q4C1	2.6(2.6)	2.6(2.6)	2.6(2.6)
Q4F0	10.2(10.2)	9.5(9.5)	10.2(10.2)
Q4F1	0.0(0.0)	5.1(5.1)	0.0(0.0)

	1	2	3	4	5	6
Q2S3	8.2(8.2)	3.7(3.6)	4.4(4.2)	0.0(0.0)	4.4(4.2)	3.7(3.6)
Q2S4	8.2(8.2)	4.4(4.2)	5.0(4.8)	0.0(0.0)	5.0(4.8)	4.4(4.2)
Q2S5	8.2(8.2)	3.3(3.3)	4.0(3.9)	0.0(0.0)	4.9(4.9)	4.3(4.2)
Q4C0	5.0(5.0)	1.8(1.8)	2.4(2.4)	0.0(0.0)	2.5(2.4)	1.8(1.8)
Q5A2	~(~)	~(~)	0.0(0.0)	~(~)	~(~)	0.0(0.0)
Q5A3	0.0(0.0)	5.0(5.0)	5.0(5.0)	0.0(0.0)	0.6(0.6)	0.0(0.0)

IC5A1

PIN No.		PIN No.	
1	5.0(5.0)	8	0.0(0.0)
2	5.1(5.1)	9	4.7(4.7)
3	4.8(5.0)	10	0.2(0.1)
4	5.1(5.1)	11	~(~)
5	5.1(5.1)	12	4.8(5.0)
6	4.7(4.7)	13	~(~)
7	0.0(0.0)	14	5.1(5.1)

IC5A2

PIN No.	
1	0.0(0.0)
2	2.5(2.5)
3	0.0(0.0)
4	0.0(0.0)
5	2.8(2.8)
6	2.5(2.5)
7	0.6(0.6)
8	5.1(5.1)

IC2S0

PIN No.	
1	4.5(4.2)
2	0.0(0.0)
3	5.3(5.3)
4	0.0(0.0)
5	5.8(5.8)
6	8.2(8.2)
7	3.7(3.4)
8	0.0(0.0)

POWER (PCB-MAIN)

IC900

PIN No.	
1	10.1
2	2.4
3	2.4
4	2.4
5	6.5
6	2.4
7	2.4
8	2.4
9	6.0
10	0.7
11	0.6
12	0.0
13	0.7
14	0.0
15	0.5
16	0.6
17	~
18	2.4
19	0.0
20	0.0
21	2.4
22	2.3
23	2.8
24	2.7

IC901

PIN No.	
1	0.0
2	10.1
3	5.0
4	9.8
5	0.0
6	9.7
7	5.0
8	9.8
9	0.0
10	9.7
11	10.1
12	9.4
13	~
14	9.6
15	10.1
16	0.0

IC980

PIN No.	
1	0.2
2	9.6
3	5.2

IC950

PIN No.	
1	2.4
2	2.4
3	2.4
4	0.0
5	2.4
6	2.4
7	1.3
8	10.1

IC952

PIN No.	
1	0.1
2	2.7
3	2.3
4	0.0
5	1.8
6	1.8
7	0.0
8	10.1

TRANSISTOR

	1(E)	2(B)	3(C)
Q901	10.1	9.7	5.2
Q902	10.1	9.7	5.2
Q930	10.2	9.6	8.9
Q931	8.9	5.1	4.6
Q932	8.3	8.9	0.0
Q933	10.2	9.5	8.6
Q934	8.6	5.1	4.5
Q963	5.2	0.5	5.1
Q983	10.2	9.6	5.2

	1	2	3	4	5	6
Q931	8.9	5.1	4.6	9.5	5.1	4.6
Q934	8.6	5.1	4.5	9.5	5.1	4.5

PCB-MDA

IC400

PIN No.		PIN No.	
1	9.9(10.1)	15	0.0(0.0)
2	~(~)	16	0.0(0.0)
3	0.0(0.0)	17	0.0(0.0)
4	4.0(3.9)	18	~(~)
5	0.0(0.0)	19	~(~)
6	0.1(0.1)	20	~(~)
7	0.4(0.4)	21	~(~)
8	3.8(3.7)	22	~(~)
9	3.9(3.5)	23	~(~)
10	2.4(2.4)	24	0.0(0.0)
11	2.6(2.6)	25	~(~)
12	3.1(3.0)	26	0.0(0.0)
13	4.6(4.8)	27	0.1(0.1)
14	0.0(0.0)	28	~(~)

IC420

PIN No.		PIN No.	
1	0.0(0.0)	11	2.6(2.5)
2	2.5(2.5)	12	2.6(2.5)
3	2.5(2.5)	13	~(~)
4	2.5(2.5)	14	0.0(0.0)
5	~(~)	15	~(~)
6	2.5(2.5)	16	~(~)
7	2.6(2.6)	17	~(~)
8	2.6(2.6)	18	0.0(0.0)
9	4.9(4.9)	19	~(~)
10	2.5(2.5)	20	2.6(2.5)

IC421

PIN No.	
1	2.3(2.4)
2	2.4(2.4)
3	2.4(2.4)
4	0.0(0.0)
5	2.5(2.5)
6	2.8(2.5)
7	2.4(2.4)
8	4.9(4.9)

IC450

PIN No.		PIN No.	
1	0.0(0.0)	13	1.0(1.0)
2	0.0(0.0)	14	2.3(2.3)
3	0.0(0.0)	15	2.3(2.3)
4	2.1(2.1)	16	3.6(3.6)
5	0.0(0.0)	17	3.6(3.6)
6	2.1(2.0)	18	4.1(4.2)
7	5.9(5.8)	19	2.6(2.6)
8	2.1(2.0)	20	2.4(2.4)
9	0.0(0.0)	21	0.4(0.4)
10	0.0(0.0)	22	4.9(4.9)
11	3.7(3.7)	23	1.7(1.7)
12	1.0(1.0)	24	2.4(2.4)

TRANSISTOR

	1(E)	2(B)	3(C)
Q400	0.0(0.0)	0.0(0.0)	4.8(4.8)
Q420	0.0(0.0)	0.3(03)	3.1(3.1)
Q450	0.0(0.0)	0.6(0.6)	0.0(00)
Q480	0.0(0.2)	0.1(0.5)	0.2(7.7)

AUDIO (PCB-MAIN)

IC301

PIN No		PIN No.	
1	2.5(2.6)	17	0.0(0.0)
2	2.5(2.6)	18	3.2(3.2)
3	0.0(0.0)	19	2.5(2.5)
4	2.6(2.6)	20	2.5(2.5)
5	0.0(0.0)	21	2.6(2.6)
6	0.0(0.0)	22	0.0(0.0)
7	1.8(1.8)	23	0.0(0.0)
8	0.2(0.0)	24	1.9(2.0)
9	2.5(2.6)	25	0.0(0.0)
10	0.3(5.1)	26	2.0(2.0)
11	0.0(4.7)	27	5.1(5.1)
12	2.6(2.6)	28	2.0(2.0)
13	5.1(0.0)	29	5.1(5.1)
14	2.6(2.6)	30	2.0(2.0)
15	5.1(5.1)	31	2.5(2.6)
16	0.0(0.0)	32	2.3(2.5)

IC302

PIN No.	
1	4.9(4.6)
2	1.6(1.6)
3	1.4(1.0)
4	0.0(0.0)
5	2.5(2.6)
6	2.6(2.6)
7	2.5(2.6)
8	5.1(5.1)

TRANSISTOR

	1(E)	2(B)	3(C)
Q301	5.1(5.1)	0.3(5.0)	5.0(−20.6)
Q307	0.0(0.2)	0.2(0.0)	0.2(7.7)
Q308	0.0(0.0)	0.0(0.0)	0.0(4.3)
Q310	8.6(8.2)	8.6(7.5)	0.2(8.2)
Q311	8.6(8.3)	8.6(7.5)	0.2(8.1)

	1	2	3	4	5	6
Q302	0.0(0.0)	0.0(0.0)	0.7(−20.5)	0.0(−12.7)	0.7(−21.0)	
Q303	0.0(0.0)	−0.2(0.0)	0.0(0.0)	0.0(0.0)	−0.2(0.0)	0.0(0.0)
Q305	0.0(0.0)	0.0(0.0)	−0.2(0.0)	0.0(0.0)	−0.2(0.0)	

TELOP (PCB-SIGNAL)

IC4001

PIN No.		PIN No.		PIN No.		PIN No.	
1	0.0(0.0)	17	4.9(4.4)	33	0.0(0.0)	49	0.0(0.0)
2	0.0(0.0)	18	0.0(0.0)	34	5.0(4.9)	50	0.0(0.0)
3	3.7(3.6)	19	4.9(4.9)	35	0.0(0.0)	51	0.0(0.0)
4	0.0(0.0)	20	0.0(0.0)	36	0.3(0.3)	52	0.0(0.0)
5	3.9(3.8)	21	0.0(0.0)	37	5.0(4.9)	53	0.0(0.0)
6	3.9(3.9)	22	0.0(0.0)	38	0.3(0.3)	54	0.0(0.0)
7	0.0(0.0)	23	0.0(0.0)	39	0.0(0.0)	55	0.0(0.0)
8	0.0(0.0)	24	0.0(0.0)	40	5.0(4.9)	56	0.0(0.0)
9	0.0(0.0)	25	5.0(4.9)	41	0.0(0.0)	57	5.0(5.0)
10	4.9(4.9)	26	0.0(0.0)	42	0.0(0.0)	58	5.0(5.0)
11	0.0(0.0)	27	0.0(0.0)	43	0.0(0.0)	59	0.0(0.0)
12	0.0(0.0)	28	0.0(0.0)	44	0.5(0.0)	60	0.0(0.0)
13	0.0(0.0)	29	0.0(0.0)	45	4.5(4.9)	61	0.0(0.0)
14	0.0(0.0)	30	5.0(4.9)	46	4.9(4.9)	62	0.0(0.0)
15	0.0(0.0)	31	0.0(0.0)	47	~(~)	63	0.0(0.0)
16	0.0(0.0)	32	0.0(0.0)	48	5.0(4.9)	64	0.0(0.0)

IC4002

PIN No.		PIN No.	
1	0.0(0.0)	15	0.0(0.0)
2	0.0(0.0)	16	0.0(0.0)
3	0.0(0.0)	17	0.0(0.0)
4	0.0(0.0)	18	0.0(0.0)
5	0.0(0.0)	19	0.0(0.0)
6	0.0(0.0)	20	5.1(5.1)
7	5.0(5.0)	21	0.0(0.0)
8	0.0(0.0)	22	0.0(0.0)
9	0.0(0.0)	23	0.0(0.0)
10	0.0(0.0)	24	0.0(0.0)
11	0.0(0.0)	25	0.0(0.0)
12	0.0(0.0)	26	0.0(0.0)
13	0.0(0.0)	27	5.0(5.0)
14	0.0(0.0)	28	5.1(5.1)

IC4003

PIN No.	
1	0.0(0.0)
2	2.7(2.7)
3	2.3(2.4)
4	0.0(0.0)
5	4.9(4.9)
6	4.8(4.9)
7	4.9(4.5)
8	4.9(4.9)

IC4004

PIN No.	
1	0.0(0.0)
2	5.0(5.0)
3	0.0(0.0)
4	5.0(5.0)
5	5.0(5.0)

TRANSISTOR

	1	2	3	4	5	6
Q4001	5.0(5.0)	2.3(2.3)	2.8(2.8)	0.0(0.0)	2.8(2.8)	2.4(2.4)

VIDEO I/O (PCB-SIGNAL)

IC2D0

PIN No.		PIN No.	
1	0.4(0.4)	22	4.2(4.2)
2	0.5(3.2)	23	2.9(2.9)
3	5.0(5.0)	24	8.6(8.5)
4	5.5(5.5)	25	5.6(5.6)
5	5.1(5.1)	26	0.0(0.0)
6	5.7(5.6)	27	5.6(5.6)
7	4.9(4.8)	28	0.0(0.0)
8	3.3(3.2)	29	5.6(5.6)
9	4.4(4.3)	30	0.6(0.6)
10	4.4(4.2)	31	5.6(5.6)
11	0.5(3.3)	32	5.6(5.6)
12	5.0(5.0)	33	4.2(4.2)
13	0.0(0.0)	34	5.6(5.6)
14	0.6(0.6)	35	4.2(4.2)
15	4.4(4.2)	36	4.5(4.5)
16	0.0(0.0)	37	0.0(0.0)
17	0.0(0.0)	38	8.4(8.4)
18	0.0(0.0)	39	3.2(3.2)
19	0.0(0.0)	40	3.4(3.4)
20	0.0(0.0)	41	2.3(2.3)
21	3.9(3.9)	42	1.9(1.9)

IC2P0

PIN No.	
1	0.0(0.0)
2	4.9(4.8)
3	1.9(1.9)
4	0.0(0.0)
5	0.0(0.0)
6	3.9(3.9)
7	4.2(4.1)
8	2.2(2.1)
9	3.7(3.6)
10	3.7(3.6)
11	3.9(3.9)
12	0.0(0.0)
13	2.7(2.8)
14	3.0(2.9)
15	0.5(3.2)
16	0.0(0.0)
17	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2D1	0.6(0.6)	0.0(0.0)	0.0(0.0)
Q2D2	0.6(0.6)	0.0(0.0)	0.0(0.0)
Q2L0	0.5(0.6)	1.1(1.2)	8.5(8.4)

	1	2	3	4	5	6
Q2D0	8.4(8.4)	4.9(4.9)	5.1(5.1)	8.5(8.4)	4.9(4.9)	4.7(5.1)
Q2G0	5.0(5.0)	0.0(0.0)	0.0(0.0)	5.0(5.0)	0.0(0.0)	0.0(0.0)
Q2L1	8.4(8.4)	0.1(0.1)	0.7(0.8)	0.0(0.0)	0.5(0.6)	0.1(0.1)
Q2P0	0.0(0.0)	0.0(0.0)	2.7(2.7)	0.0(2.8)	2.2(2.3)	
Q2P1	0.0(0.0)	0.0(0.0)	2.1(2.2)	1.1(1.2)	0.5(0.6)	

CHROMA (PCB-SIGNAL)

IC601

PIN No.		PIN No.	
1	~(1.3)	23	2.2(2.3)
2	3.6(3.6)	24	2.2(2.3)
3	4.8(4.8)	25	2.1(2.1)
4	2.9(3.0)	26	2.9(3.0)
5	3.1(3.1)	27	4.4(4.5)
6	4.8(3.4)	28	0.0(0.0)
7	3.1(3.1)	29	~(0.7)
8	4.9(4.9)	30	3.0(3.6)
9	4.0(4.0)	31	3.5(0.0)
10	0.0(0.0)	32	2.7(3.0)
11	3.5(3.5)	33	1.1(1.2)
12	2.7(2.8)	34	2.2(2.3)
13	2.9(2.9)	35	1.2(1.2)
14	2.9(2.9)	36	2.9(2.9)
15	1.8(1.9)	37	4.8(4.8)
16	0.0(0.0)	38	4.7(4.8)
17	3.4(3.5)	39	2.9(2.9)
18	4.9(4.9)	40	0.0(0.0)
19	3.6(3.7)	41	3.0(2.3)
20	0.0(0.0)	42	1.3(0.1)
21	4.1(4.1)	43	1.3(0.1)
22	0.0(0.0)	44	2.9(3.1)

IC602

PIN No.	
1	0.0(0.0)
2	3.5(0.0)
3	0.0(0.0)
4	2.7(2.7)
5	0.0(0.0)
6	4.0(4.0)
7	4.7(4.8)
8	5.0(5.0)
9	4.0(4.0)
10	4.9(4.9)
11	2.7(2.7)
12	1.4(1.5)
13	0.8(0.8)
14	3.2(3.2)
15	3.4(3.4)
16	1.3(1.3)
17	4.0(4.0)
18	1.0(1.0)
19	4.8(4.9)
20	0.7(0.7)

IC603

PIN No.	
1	0.0(0.0)
2	0.0(0.0)
3	2.7(0.0)
4	0.0(0.0)
5	2.7(0.0)
6	0.0(0.0)
7	0.2(0.0)
8	4.8(0.2)
9	2.4(0.0)
10	2.4(0.0)
11	0.2(0.0)
12	3.0(0.0)
13	3.0(0.0)
14	3.7(0.2)
15	0.0(0.0)
16	3.0(0.0)

IC604

PIN No.	
1	3.0(2.9)
2	0.0(0.0)
3	3.0(3.0)
4	0.0(5.0)
5	3.0(3.0)
6	5.0(5.0)
7	2.2(2.2)
8	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q601	1.6(1.7)	2.3(2.4)	4.8(4.9)
Q602	2.8(2.9)	3.5(3.5)	4.9(4.9)
Q603	1.7(1.7)	2.3(2.4)	5.0(5.0)
Q604	2.7(2.8)	3.4(3.5)	5.0(5.0)
Q610	0.0(0.0)	4.5(4.6)	0.0(0.0)
Q613	4.0(4.0)	3.3(3.3)	2.1(2.2)
Q615	3.1(0.2)	2.4(0.0)	1.0(0.0)
Q616	5.0(5.1)	5.0(5.0)	0.0(0.0)
Q617	1.1(0.0)	1.8(1.8)	3.9(3.9)
Q618	1.6(0.2)	1.0(0.0)	0.0(0.0)

	1	2	3	4	5	6
Q606	1.4(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.0)	
Q607	1.7(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.0)	
Q614	0.0(0.0)	3.0(0.0)	2.4(0.0)	3.5(0.2)	0.0(0.0)	0.0(0.0)

PCB-LCD

IC8A1

PIN No.		PIN No.		PIN No.		PIN No.		PIN No.		PIN No.		PIN No.	
1	0.0(0.0)	12	4.4(4.4)	23	0.0(0.0)	34	0.0(0.0)	45	~(~)	56	—	67	~(~)
2	~(~)	13	3.8(0.1)	24	0.0(0.0)	35	5.1(5.1)	46	~(~)	57	—	68	~(~)
3	~(~)	14	0.0(0.0)	25	2.2(2.2)	36	0.0(0.0)	47	~(~)	58	~(~)	69	~(~)
4	0.0(3.5)	15	1.0(4.9)	26	2.2(2.2)	37	5.1(5.1)	48	~(~)	59	~(~)	70	~(~)
5	5.0(5.0)	16	5.0(5.0)	27	2.2(2.2)	38	0.0(0.0)	49	~(~)	60	~(~)	71	~(~)
6	0.0(0.0)	17	4.9(4.9)	28	2.2(2.2)	39	5.1(5.1)	50	~(~)	61	1.7(1.7)	72	0.0(0.0)
7	~(~)	18	1.0(0.0)	29	0.0(0.0)	40	~(~)	51	~(~)	62	3.4(3.3)		
8	~(5.1)	19	5.1(5.1)	30	5.1(5.1)	41	0.0(0.0)	52	~(~)	63	5.1(5.1)		
9	~(~)	20	0.0(0.0)	31	0.1(0.0)	42	0.0(0.0)	53	~(~)	64	2.7(2.5)		
10	0.0(0.0)	21	0.1(0.1)	32	5.1(5.1)	43	~(~)	54	~(~)	65	0.0(0.0)		
11	5.1(0.0)	22	0.0(0.0)	33	0.0(0.0)	44	2.5(2.6)	55	~(~)	66	~(~)		

TRANSISTOR

	1(E)	2(B)	3(C)
Q8A1	5.1(5.1)	5.1(0.0)	0.0(5.1)
Q8A2	0.0(0.0)	0.0(5.1)	5.3(0.1)

Y
(PCB-SIGNAL)

IC2001

PIN No.		PIN No.	
1	1.4(1.0)	23	2.1(2.1)
2	0.5(0.5)	24	3.8(3.0)
3	4.7(4.7)	25	3.4(2.2)
4	1.3(1.6)	26	4.9(4.9)
5	1.3(1.5)	27	3.1(3.2)
6	4.7(4.7)	28	2.2(2.2)
7	2.4(2.4)	29	2.9(2.9)
8	0.6(2.8)	30	2.1(2.2)
9	3.1(3.2)	31	2.3(2.4)
10	3.3(3.5)	32	2.6(2.8)
11	2.2(2.7)	33	2.8(4.6)
12	0.0(0.0)	34	2.7(2.7)
13	4.8(0.3)	35	1.8(1.5)
14	~(~)	36	0.0(0.0)
15	4.9(5.0)	37	0.0(0.0)
16	1.7(0.0)	38	0.0(1.7)
17	0.0(0.0)	39	1.5(1.4)
18	1.7(1.8)	40	1.4(3.2)
19	2.3(2.6)	41	3.2(0.0)
20	5.0(−0.1)	42	0.0(0.0)
21	2.0(0.0)	43	0.0(0.1)
22	0.0(5.0)	44	0.2(0.2)

IC2002

PIN No.	
1	4.8(5.0)
2	5.0(5.0)
3	0.0(0.0)
4	1.6(1.7)
5	0.0(0.0)
6	8.9(8.9)
7	4.1(4.3)

IC2003

PIN No.	
1	0.0(0.0)
2	3.4(3.3)
3	3.5(0.0)
4	1.9(1.9)
5	4.9(4.9)
6	1.5(1.5)
7	3.4(3.4)
8	0.2(−0.1)

IC2004

PIN No.	
1	2.7(0.2)
2	4.7(0.2)
3	0.0(0.0)
4	5.0(5.0)
5	2.8(0.0)
6	0.0(0.0)
7	0.0(0.0)
8	1.6(2.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2004	1.5(1.4)	0.9(0.7)	0.0(0.0)
Q2005	1.7(1.4)	1.1(0.8)	0.0(0.0)
Q2011	2.3(2.2)	3.0(3.0)	4.7(4.7)
Q2012	2.2(2.2)	1.6(1.5)	0.0(0.0)
Q2013	0.0(0.0)	0.0(0.0)	0.3(0.0)
Q2015	0.0(0.0)	0.0(0.0)	0.2(0.0)
Q2016	1.6(2.0)	2.3(2.7)	5.0(5.0)
Q2017	5.5(5.5)	6.2(6.1)	8.9(8.9)
Q2032	4.7(4.7)	0.2(0.1)	4.7(4.7)
Q2034	4.9(0.2)	1.4(0.9)	4.9(0.4)
Q2036	4.9(5.0)	5.0(5.0)	1.8(1.8)
Q2038	0.0(0.0)	0.7(0.7)	0.0(0.0)
Q2101	1.3(0.0)	1.9(0.0)	3.5(0.2)
Q2102	1.8(0.0)	2.5(0.0)	4.7(0.2)
Q2109	0.0(0.0)	5.0(5.0)	0.0(0.0)
Q2110	0.0(0.0)	3.4(3.6)	0.0(0.0)
Q2201	1.2(1.6)	0.6(0.9)	0.0(0.0)
Q2401	5.1(5.1)	5.1(4.4)	0.0(5.0)
Q2402	5.1(5.1)	4.3(5.1)	4.9(0.2)
Q 404	5.1(5.1)	4.9(4.9)	1.4(1.0)
Q2406	5.0(5.0)	0.2(0.1)	5.0(5.0)
Q2407	4.9(0.2)	0.0(0.0)	4.9(0.0)
Q2408	5.1(5.1)	0.0(0.0)	5.0(5.0)
Q2409	5.1(5.1)	5.1(5.0)	0.0(0.0)

	1	2	3	4	5
Q2014	0.4(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.6)

OPERATION (PCB-MAIN)

IC8000

PIN No.		PIN No.	
1	0.0(0.0)	17	0.8(0.8)
2	4.7(4.7)	18	4.9(4.9)
3	4.9(4.9)	19	0.0(0.0)
4	2.2(2.2)	20	0.0(0.0)
5	2.2(2.2)	21	0.0(0.0)
6	0.0(0.0)	22	0.0(0.0)
7	~(~)	23	0.0(0.0)
8	~(~)	24	0.0(0.1)
9	~(~)	25	0.0(0.0)
10	4.9(4.9)	26	0.0(0.0)
11	0.0(0.0)	27	4.9(4.9)
12	4.2(4.3)	28	4.9(4.9)
13	4.2(4.3)	29	0.3(0.3)
14	0.6(0.6)	30	0.2(0.2)
15	1.6(1.6)	31	0.0(0.0)
16	0.6(0.6)	32	5.0(5.0)

IC8001

PIN No.	
1	5.0(5.0)
2	~(~)
3	~(~)
4	~(~)
5	~(~)
6	~(~)
7	0.0(0.0)
8	0.0(0.0)
9	~(~)
10	~(~)
11	~(~)
12	4.7(4.7)
13	~(~)
14	5.0(5.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q8002	0.0(0.0)	0.0(0.0)	5.0(5.0)
Q8004	0.0(0.0)	3.9(4.1)	0.0(0.0)
Q8005	0.0(0.0)	0.6(0.6)	0.2(0.2)
Q8006	4.9(4.9)	4.2(4.2)	0.0(0.0)

	1	2	3	4	5	6
Q8003	5.0(5.0)	0.0(0.0)	0.0(0.0)	5.0(5.0)	0.0(0.0)	0.0(0.0)

PCB-OPERATION SUB

IC8700

PIN No.		PIN No.		PIN No.	
1	~(~)	23	0.0(0.0)	45	4.3(~)
2	~(~)	24	5.1(5.1)	46	4.8(~)
3	~(~)	25	0.0(0.0)	47	5.1(5.1)
4	~(~)	26	2.5(2.5)	48	4.9(~)
5	~(~)	27	0.0(0.0)	49	4.6(~)
6	5.0(5.0)	28	~(~)	50	4.9(~)
7	5.1(5.1)	29	4.9(4.9)	51	~(~)
8	0.0(0.0)	30	0.3(0.1)	52	~(~)
9	5.0(5.0)	31	~(~)	53	0.1(0.1)
10	4.8(5.0)	32	~(~)	54	0.1(0.1)
11	~(~)	33	5.0(~)	55	5.1(5.1)
12	~(~)	34	4.1(~)	56	5.1(5.1)
13	~(~)	35	4.2(~)	57	0.0(0.0)
14	5.1(5.1)	36	4.1(~)	58	5.1(5.1)
15	5.1(5.1)	37	5.1(~)	59	5.1(5.1)
16	~(~)	38	0.0(0.0)	60	5.1(5.1)
17	~(~)	39	5.1(5.1)	61	~(~)
18	4.9(5.0)	40	0.0(0.0)	62	5.1(5.1)
19	0.0(0.0)	41	5.1(5.1)	63	0.6(0.6)
20	5.1(5.1)	42	5.1(5.1)	64	4.0(4.0)
21	2.3(2.3)	43	4.3(~)		
22	1.5(1.5)	44	5.1(5.1)		

IC8701

PIN No.	
1	1.6(1.6)
2	0.0(0.0)
3	~(~)
4	~(~)
5	~(~)
6	1.6(1.6)
7	1.6(1.6)
8	0.0(0.0)
9	0.0(0.0)
10	0.0(0.0)
11	0.0(0.0)
12	0.0(0.0)
13	0.4(0.1)
14	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q8701	0.0(0.0)	0.0(0.0)	5.1(5.1)
Q8704	0.0(0.0)	5.1(5.1)	0.0(0.0)
Q8705	0.7(0.6)	5.1(5.1)	0.0(0.0)
Q8706	5.2(5.2)	4.5(4.5)	5.1(5.1)
Q8707	0.0(0.0)	0.0(0.0)	5.1(4.0)
Q8708	5.2(5.2)	4.4(4.4)	5.1(5.2)
Q8709	0.0(0.0)	0.0(0.0)	5.1(5.1)
Q8721	0.0(0.0)	5.1(5.1)	0.0(0.0)
Q8722	5.1(5.1)	5.1(5.1)	0.0(0.0)
Q8723	5.1(5.1)	5.1(5.1)	0.0(0.0)
Q8724	0.0(0.0)	0.0(0.0)	1.6(1.6)
Q8725	0.0(0.0)	0.0(0.0)	1.6(1.6)
Q8726	5.0(5.0)	5.1(5.1)	5.1(5.1)
Q8727	0.7(0.6)	0.3(0.2)	0.6(0.6)

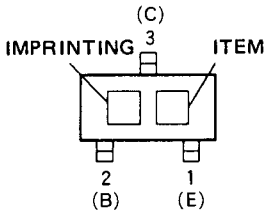
	1	2	3	4	5
Q8720	0.0(0.0)	0.0(0.0)	0.4(0.5)	0.0(0.0)	0.0(0.0)

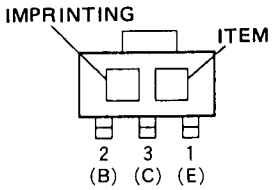
	1	2	3
IC8702	5.1(5.1)	5.(5.2)	0.0(0.0)
IC8703	0.0(0.0)	5.1(5.1)	1.6(1.6)

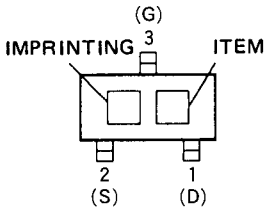
CHIP PARTS SHAPES

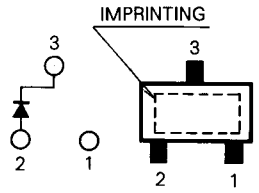
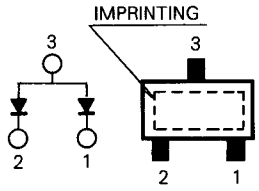
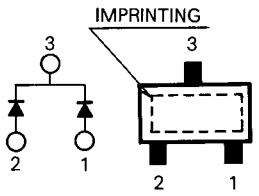
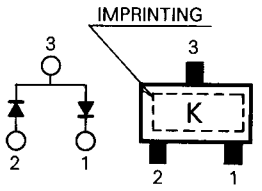
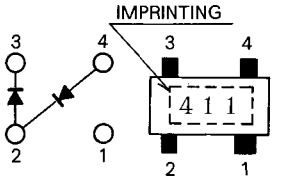
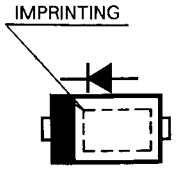
(4-1)

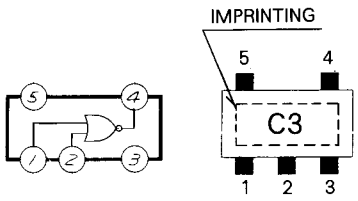
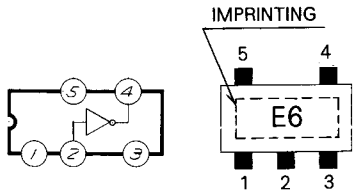
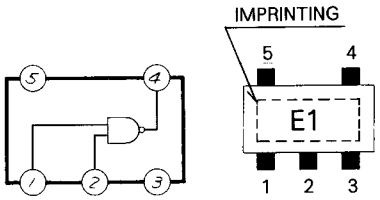
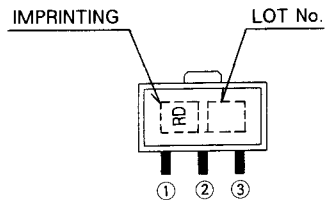
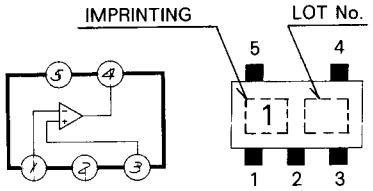
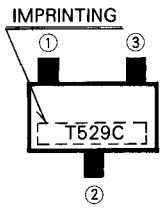
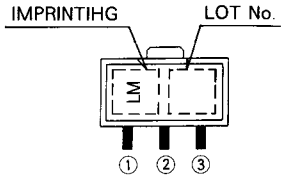
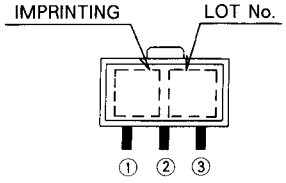
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
2SA1235-F,G	MF, MG	260P802090	
2SA1576-R/2SB1218A-R	FR, BR	260P859020	
2SA1576-R	FR	260P859050	
2SA1577-Q/2SB1219A-R	HQ, DR	260P861020	
2SA1577-Q	HQ	260P861050	
2SC4081-Q/2SD1819A-Q	BQ, ZQ	260P855010	
2SC4081-R/2SD1819A-R	BR, ZR	260P855020	
2SC4098-P/2SC3936-B	AP, KB	260P854020	
2SC4098-Q/2SC3936-C	AQ, KC	260P854030	
2SD1819A-Q	ZQ	260P855070	
2SD1949-Q/2SD1820A-R	YQ, XR	260P867020	
2SD1949-R	YR	260P867060	
DTA144EU/UN5113	16, 6C	260P856010	
DTC114EK	24	260P808010	
DTC144EU/UN5213	26, 8C	260P857010	
DTC144EU	26	260P857020	
DTA114EU/UN5111	14, 6A	260P858010	
2SB798-DK	DK	260P482010	
2SB1114-ZL	ZL	260P847010	
2SC3736-OK	OK	260P866010	
2SD999-CK	CK	260P865010	
2SK209GR	XG	260P864010	

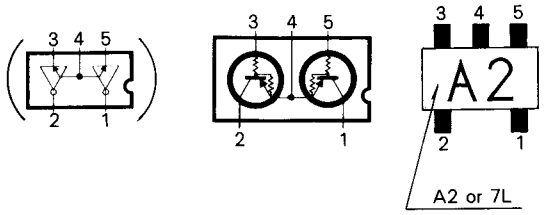
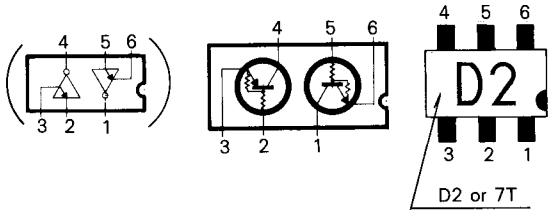
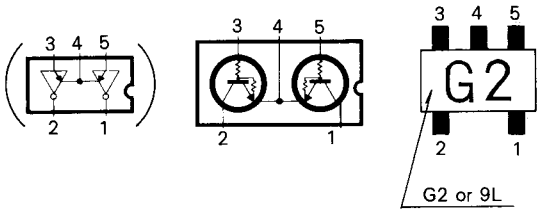
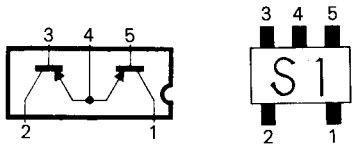
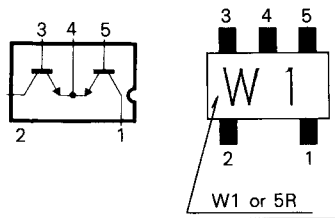
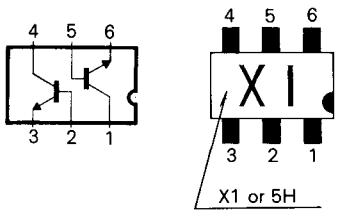
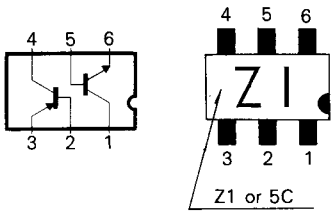
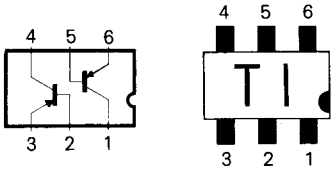




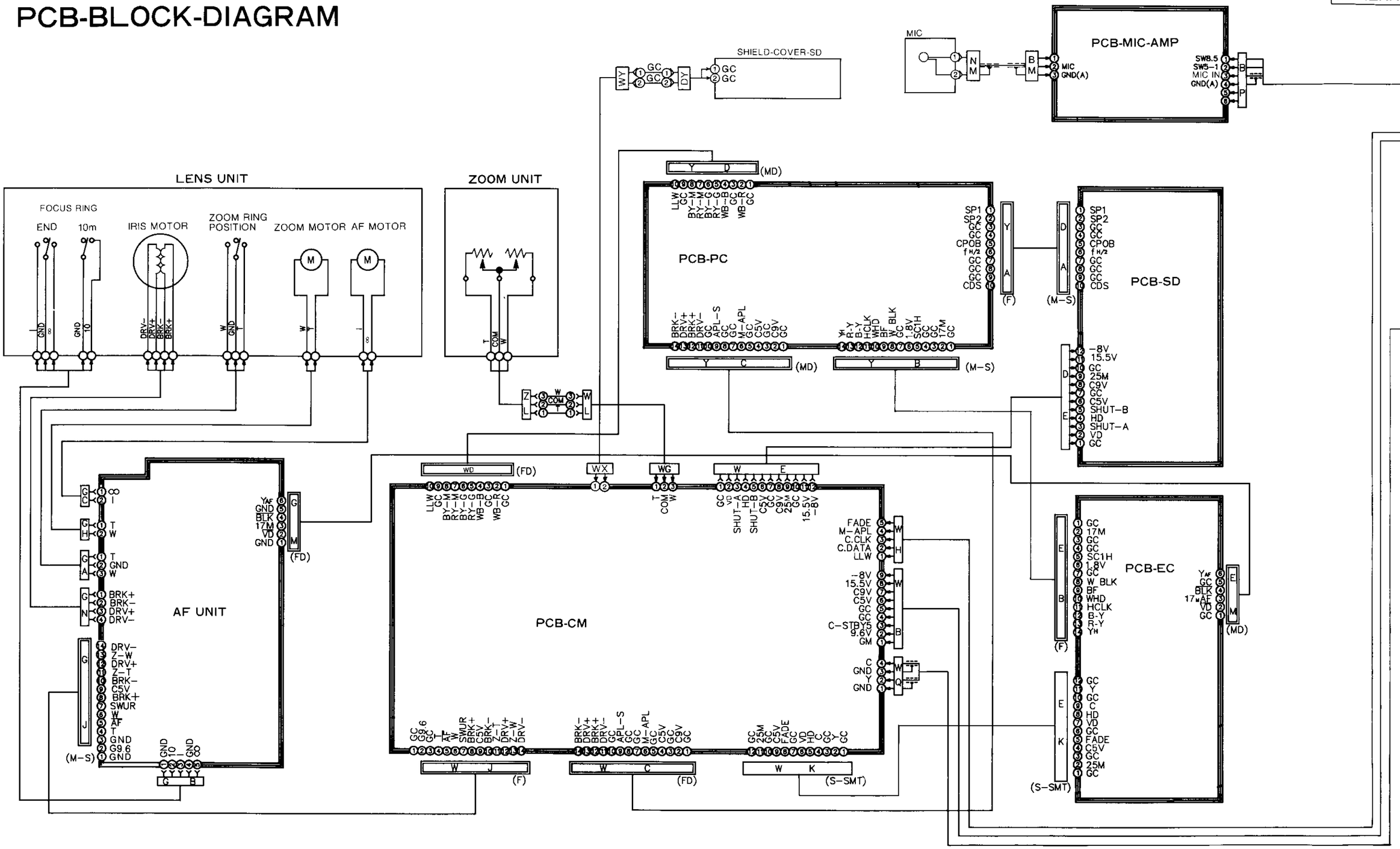


DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP DIODE			
RD5.1MB1	511	264P815060	
RD7.5MB2	752	264P816050	
DAP202U/MA142WA	P or MO	264P814010	DAP202U [P] 
MA142WA	MO	264P814030	MA142WA [MO]
DAN202U/MA142WK	N or MU	264P828010	DAN202U [N]  MA142WK [MU]
DA204U	K	264P830020	
ND411G-2	411	264P833010	
SPB-54V	B54	264P831010	
SFPB-64V	B64	264P832010	

DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP IC			
SC14S01F	C3	263P223010	
SC7SU04F	E6	263P220010	
SC7S00F	E1	263P230010	
S-81250HG-RD-T1	RD	272P360010	①VSS ②VIN ③VOUT 
NJM2406F	1	272P364010	
PST529C	T529C	272P357010	①IN ②GND ③OUT 
S-8054ALB-LM-T1	LM	272P362010	①OUT ②VDD ③VSS 
S-81215AG-RK-T1 /RH5RA16AA	RK or 6A	272P359010	①GND ②VIN ③VOUT 

DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
FMA2/XN1113	A2 or 7L	260P853010	
IMD2/XN4312	D2 or 7T	260P850010	
FGM2/XN1213	G2 or 9L	260P852010	
FMS1	S1	260P843010	
FMW1/XN1501	W1 or 5R	260P844020	
IMX1/XN4501	X1 or 5H	260P845020	
IMZ1/XN4601	Z1 or 5C	260P849020	
IMT1	T1	260P863010	

PCB-BLOCK-DIAGRAM



CAMERA

VTR

MIC

PCB-MIC-AMP

SW8.5
SW5-1
MIC IN
GND(A)

MIC
GND(A)

PCB-LCD

PCB-MAIN
(POWER)
(CONTROL)
(AUDIO)
(OPERATION)

PCB-TRIGGER

SW5-2
CMR-LED
STBY-5
REC PSW
P13
P03
P14

GND(Y)
CMR(Y)
GND(C)
CMR(C)

BATTELY PACK

9.6V

G BATT

DC INPUT TERMINAL

Lithium BATTELY 3V (BACK UP)

PCB-SD

SP1
SP2
GC
GC
CPOB
f H/2
GC
GC
GC
CDS

-8V
15.5V
GC
25M
C9V
GC
C5V
SHUT-B
HD
SHUT-A
VD
GC

PCB-EC

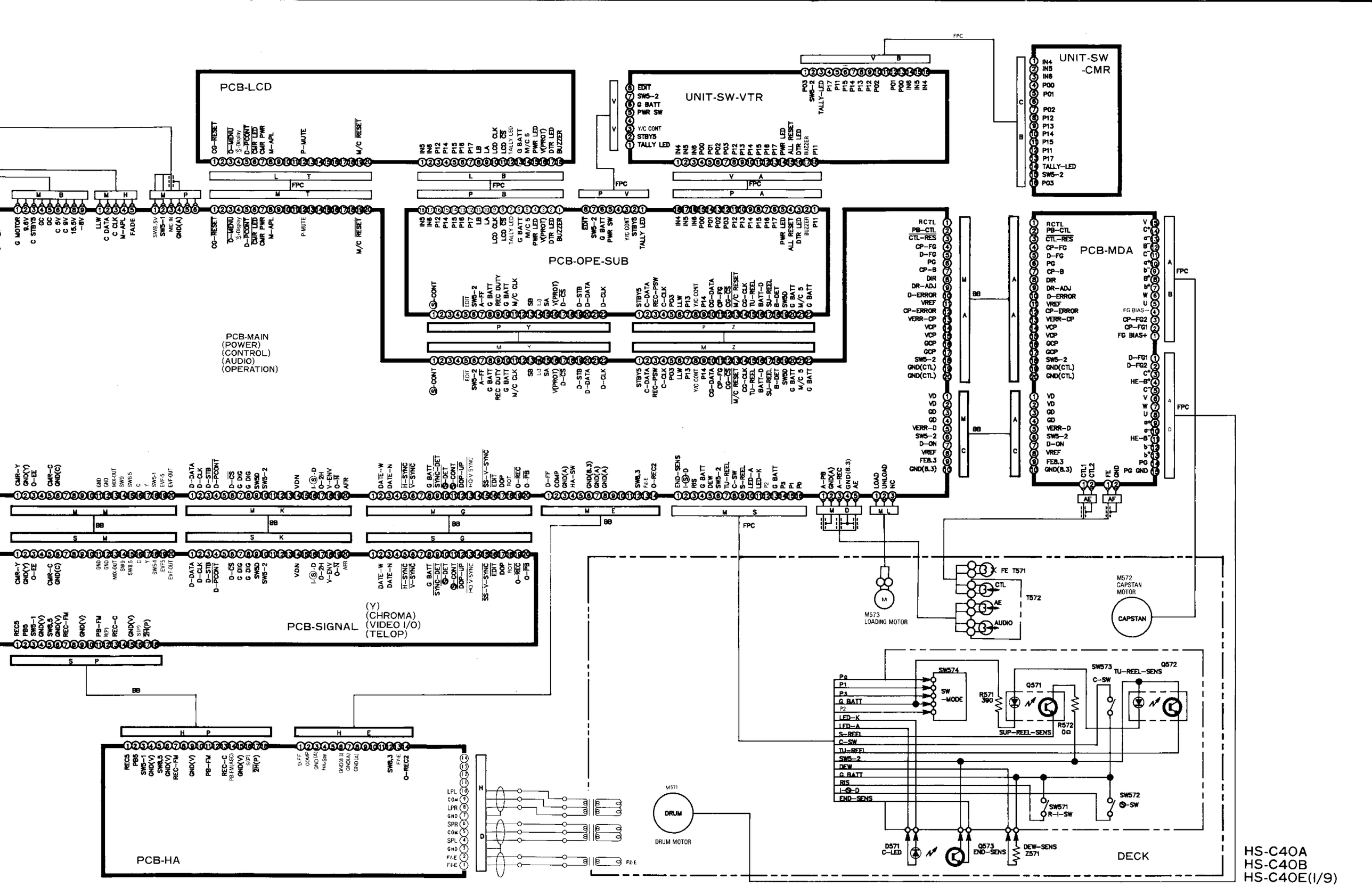
GC
17M
GC
GC
SC1H
1.8V
GC
W BLK
BF
WHD
HCLK
B-Y
R-Y
YH

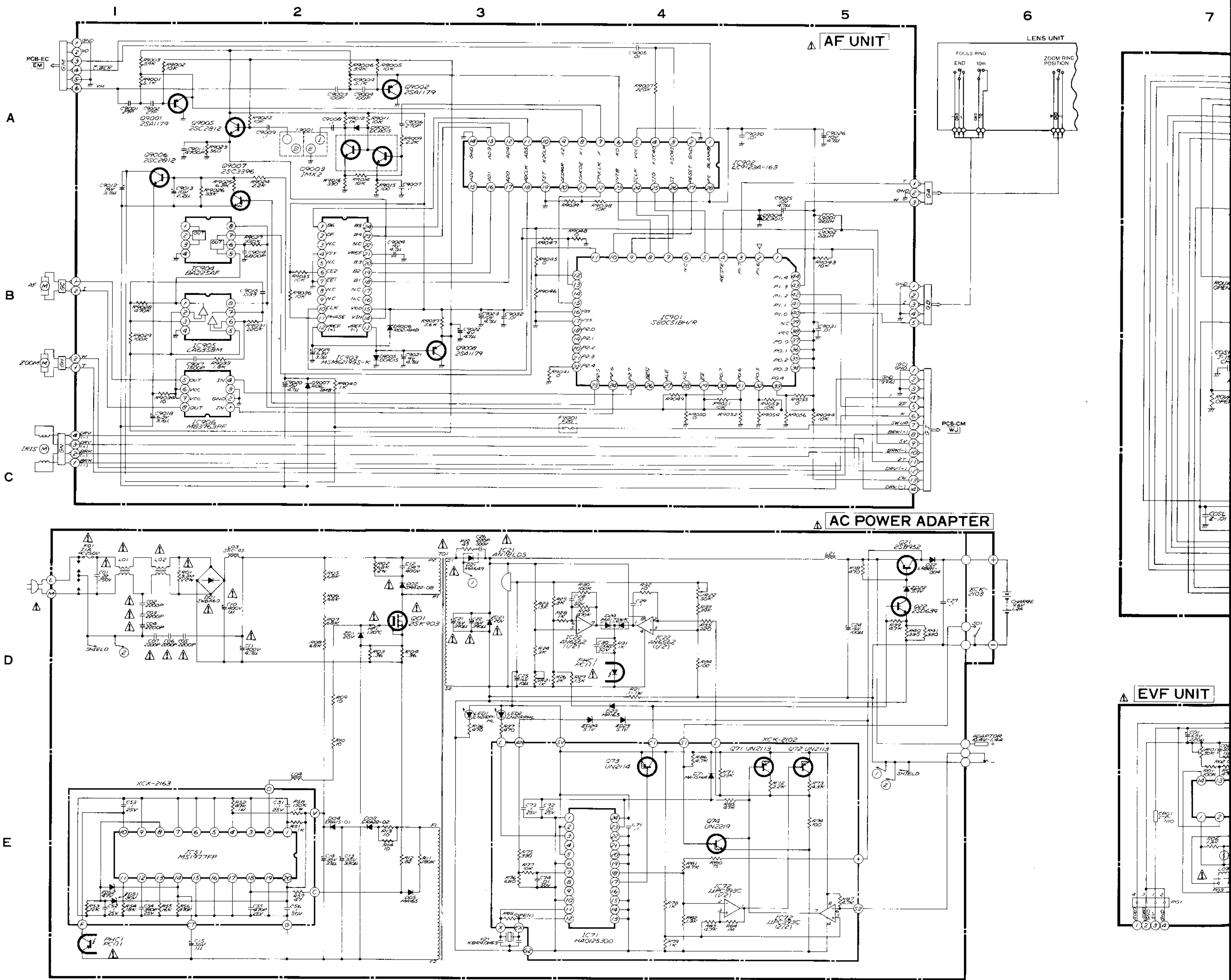
GC
Y
GC
C
HD
VD
GC
FADE
C5V
25M
GC

PCB-SIGNAL
(Y)
(CHROMA)
(VIDEO I/O)
(TELOP)

PCB-HA

(MD)
(M-S)
(F)
(S-SMT)


PCB-LCD
UNIT-SW-VTR
UNIT-SW -CMR
PCB-OPE-SUB
PCB-MAIN (POWER) (CONTROL) (AUDIO) (OPERATION)
PCB-MDA
PCB-SIGNAL (Y) (CHROMA) (VIDEO I/O) (TELOP)
PCB-HA
DECK
M573 LOADING MOTOR
M572 CAPSTAN MOTOR
CAPSTAN
M571 DRUM MOTOR
DRUM
T572
SW574 SW -MODE
SW573 C-SW
SW572 S-SW
SW571 R-I-SW
Q571
Q572
Q573 END-SENS
D571 C-LED
R571 390
R572 0Ω
DEW-SENS Z571
SUP-REEL-SENS
TU-REEL-SENS
FPC
HS-C40A
HS-C40B
HS-C40E(I/9)



AF UNIT
AC POWER ADAPTER
EVF UNIT
LENS UNIT
FOCUS RING
ZOOM RING POSITION
PCB-EC
PCB-CM
IC901 S80C51BH/R
IC902 LC4123A-163
IC903 MSM6219S-K
IC904 BA225AF
IC905 LA6358M
IC906 MB3763PF
IC51 MS1977FP
IC71 HA0125300
XCX-2163
XCX-2102
XCX-2103
Q9001 2SA1179
Q9002 2SA1179
Q9005 2SC2812
Q9006 2SC2812
Q9007 2SC3396
Q9008 2SA1179
Q9003 IMX2
Q01 2SK903
Q21 2SB952
Q22 2SD639
Q71 UN2113
Q72 UN2113
Q73 UN2114
Q74 UN2219
IC21 AN78L05
IC22 AN6562
IC72 µPC393C
PHC1 PC111
AF
ZOOM
IRIS
SHIELD
CHARGE
ADAPTOR

3 4 5 6 7 8 9 10 11

AF UNIT

LENS UNIT

FOCUS RING

END 10m

ZOOM RING POSITION

IC901 S60C518H/R

IC902 LC4923A-163

PCB-CM WJ

AC POWER ADAPTER

IC71 HA0125300

IC72 LM393C (1/2)

IC76 LM393C (2/2)

IC22 AN6552 (1/2)

IC23 AN6552 (1/2)

Q71 UN2113 Q72 UN2113 Q73 UN2114 Q74 UN2219

Q21 2SB1052 Q22 2SD639

XCK-2102

ADAPTOR 12.4V/1.4A

CHARGE 8.4V 1.3A

EVF UNIT

AN2512S

Q01 2SA1163

Q02 2SD1998

ICOSA MN5108(TIMING GENERATOR)

QOSA 2SD1920A 2SD1949

QOSD 2SB1219A 2SA1577

ICOSD 7P038-2(H.DRIVE)

ICOSF MN376IFS(CCD

WAVEFORMS ICOSF

① PIN RESET RULSE(R)

⑤ PIN VIDEO OUT(VO)

⑭ PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V1)

⑰ PIN VERTICAL SHIFT REG

V BLANKING

(RANGE 5V 100μ sec) SHUTTER NORMAL

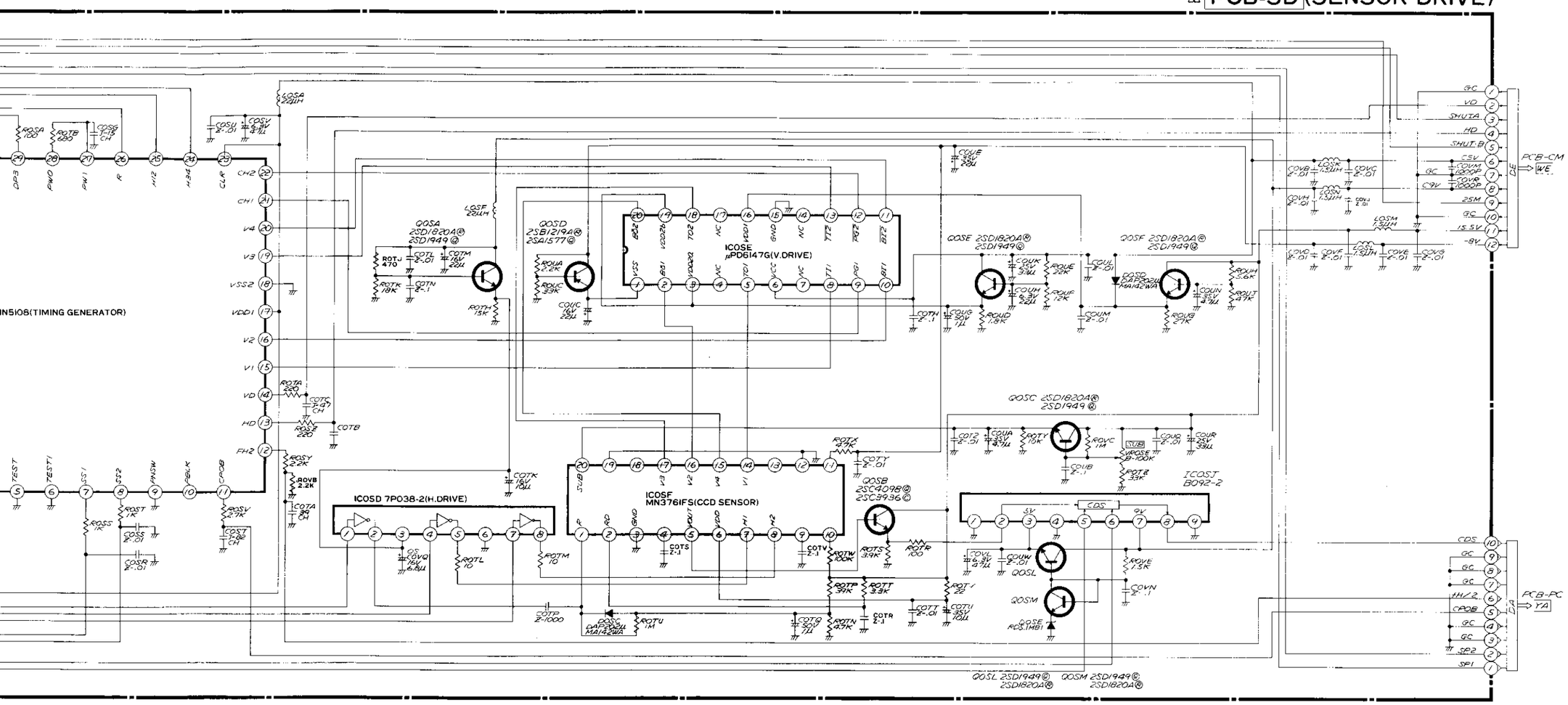
B : 1/250 SHUTTER
C : 1/500 SHUTTER
D : 1/1000 SHUTTER

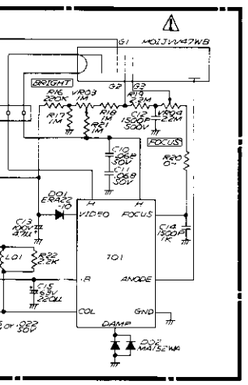
HIGH SPEED TRANSMISSION PULSE

(RANGE 5V 100μ sec) SHUTTER 1/1000

HIGH SPEED TRANSMISSION PUL

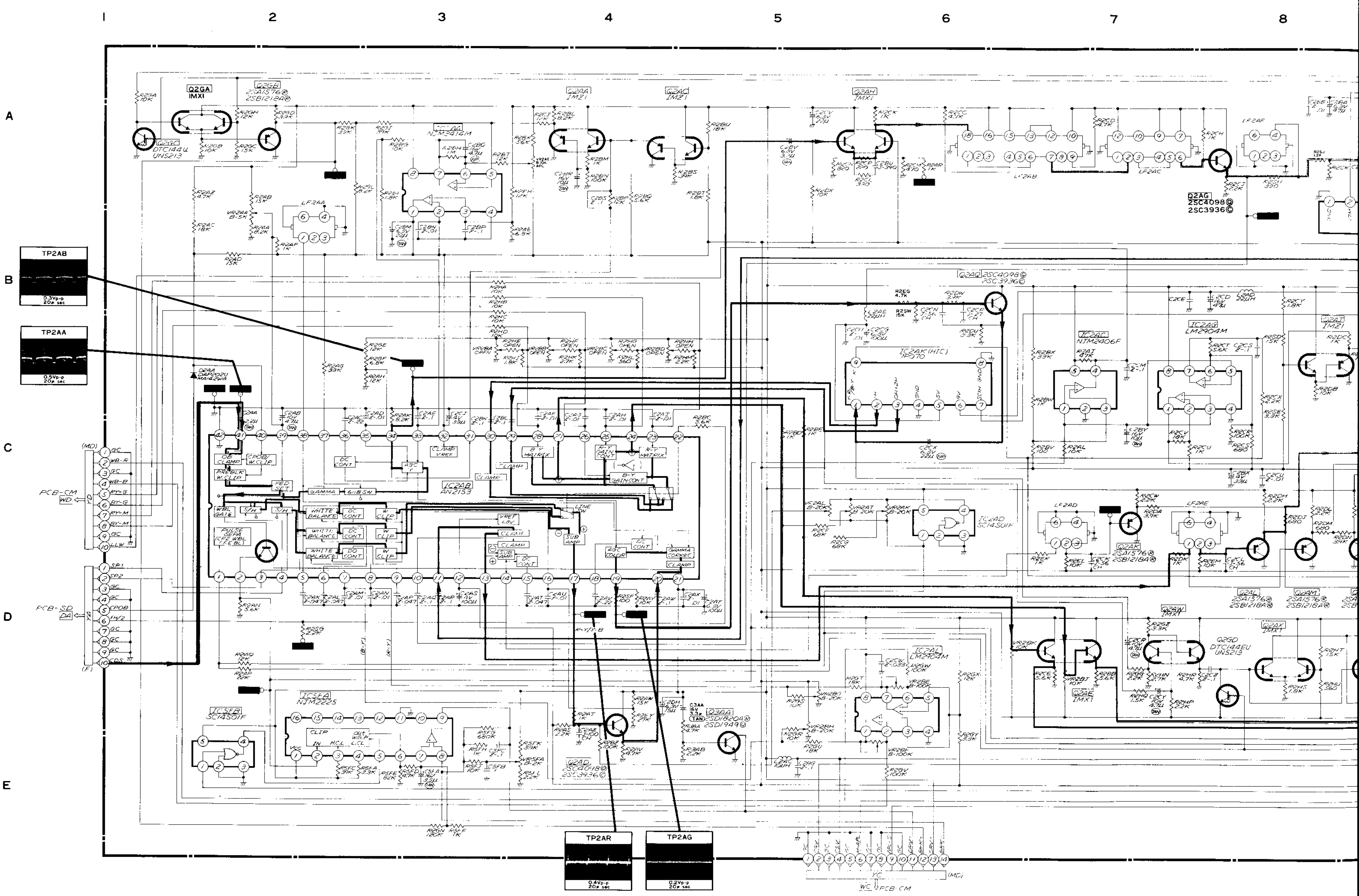
⚠ PCB-SD (SENSOR DRIVE)





WAVEFORMS ICOSF

①PIN RESET RULSE(R)	⑥PIN VIDEO OUT(VO)	⑦PIN HORIZONTAL REGISTER CLOCK PULSE(H1)	⑧PIN HORIZONTAL REGISTER CLOCK PULSE(H2)
⑭PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V1)	⑮PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V4)	⑯PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V2)	⑰PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V3)
B : 1/250 SHUTTER C : 1/500 SHUTTER D : 1/1000 SHUTTER	HIGH SPEED TRANSMISSION PULSE	HIGH SPEED TRANSMISSION PULSE	B : 1/250 SHUTTER C : 1/500 SHUTTER D : 1/1000 SHUTTER
RANGE 5V 100μ sec SHUTTER NORMAL	RANGE 5V 100μ sec SHUTTER NORMAL	RANGE 5V 100μ sec SHUTTER NORMAL	RANGE 5V 200μ sec SHUTTER NORMAL
RANGE 5V 100μ sec SHUTTER 1/1000	RANGE 5V 100μ sec SHUTTER 1/1000	RANGE 5V 100μ sec SHUTTER 1/1000	RANGE 5V 200μ sec SHUTTER 1/1000



TP2AB
0.3Vp-p 20μ sec
TP2AA
0.5Vp-p 20μ sec
TP2AR
0.4Vp-p 20μ sec
TP2AG
0.2Vp-p 20μ sec
Q2GA IMX1
IC2AB AN2153
Q2AG 2SC4098 2SC3936
IC2AC NJM2406F
IC2AG LM2904M
IC2AK(HTC)
IC5EA NJM2225
IC5EB SC14S01F
PCB-CM WD
PCB-SD DA

4 5 6 7 8 9 10 11

⚠ PCB-PC (PROCESS)

TP2AJ

0.4Vp-p 20μ sec

YB14

0.2Vp-p 20μ sec

YB13

0.3Vp-p 20μ sec

YB12

0.3Vp-p 20μ sec

TP2AR

0.4Vp-p 20μ sec

TP2AG

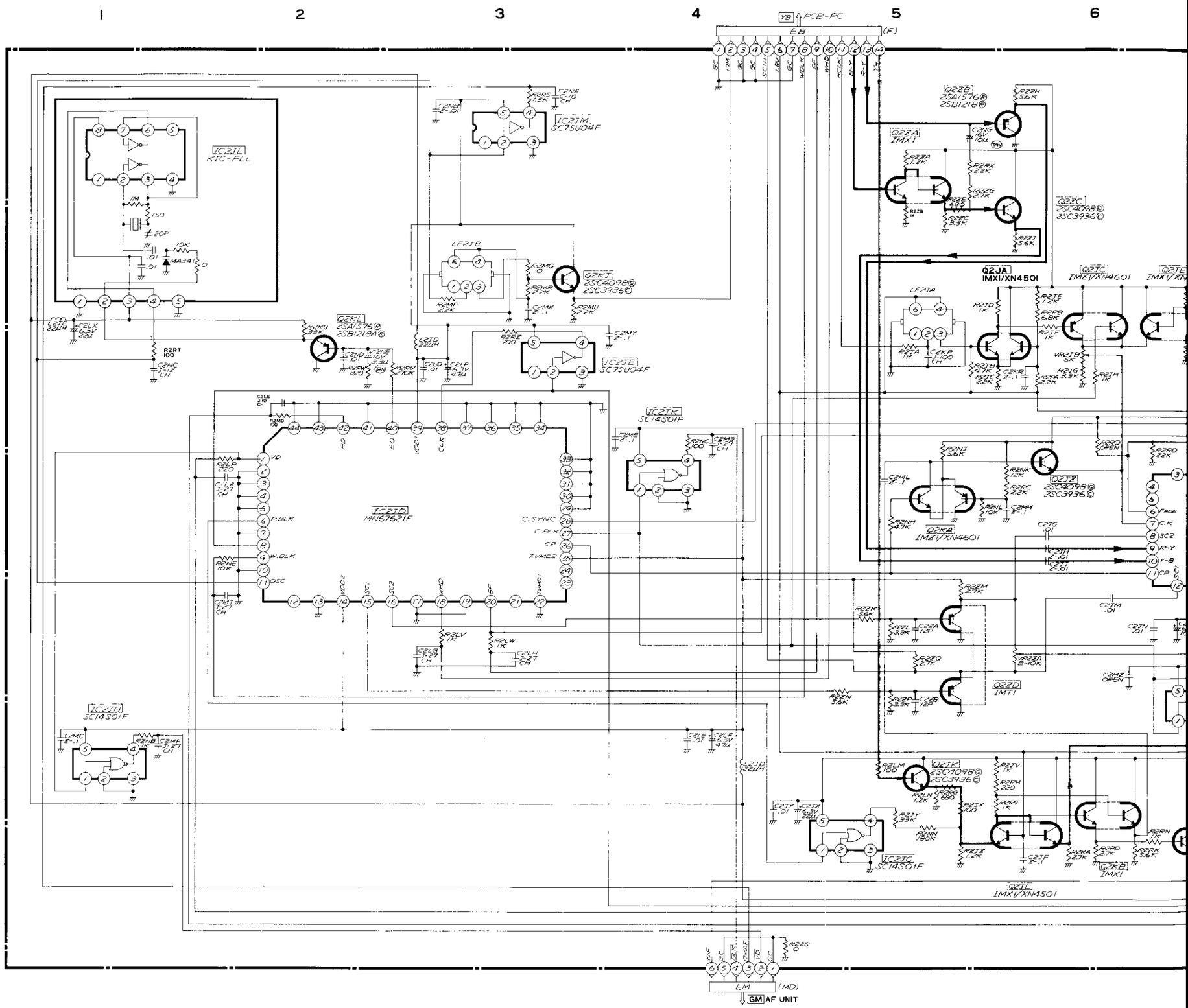
0.2Vp-p 20μ sec

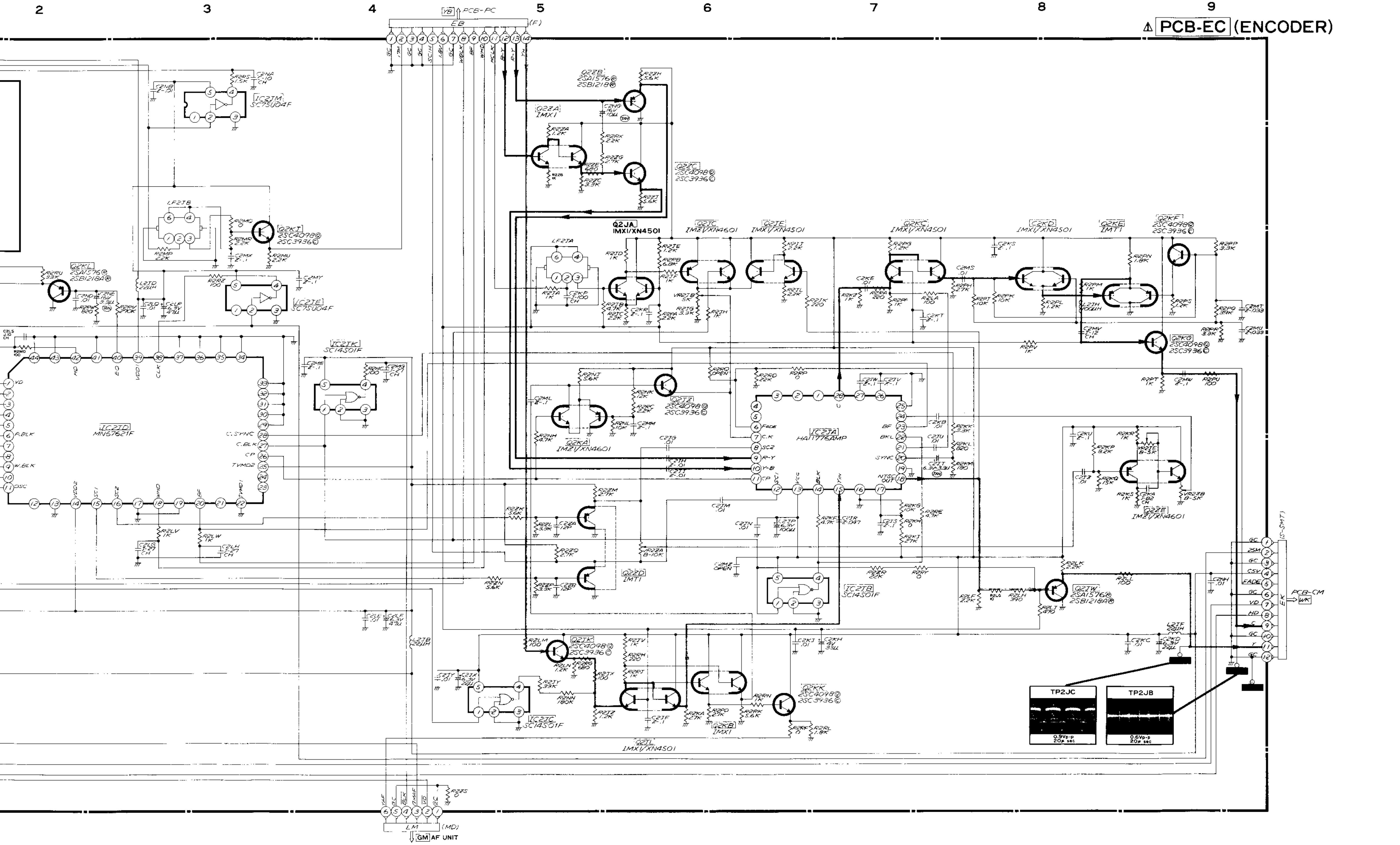
PCB-EC ⇨ EB

YC

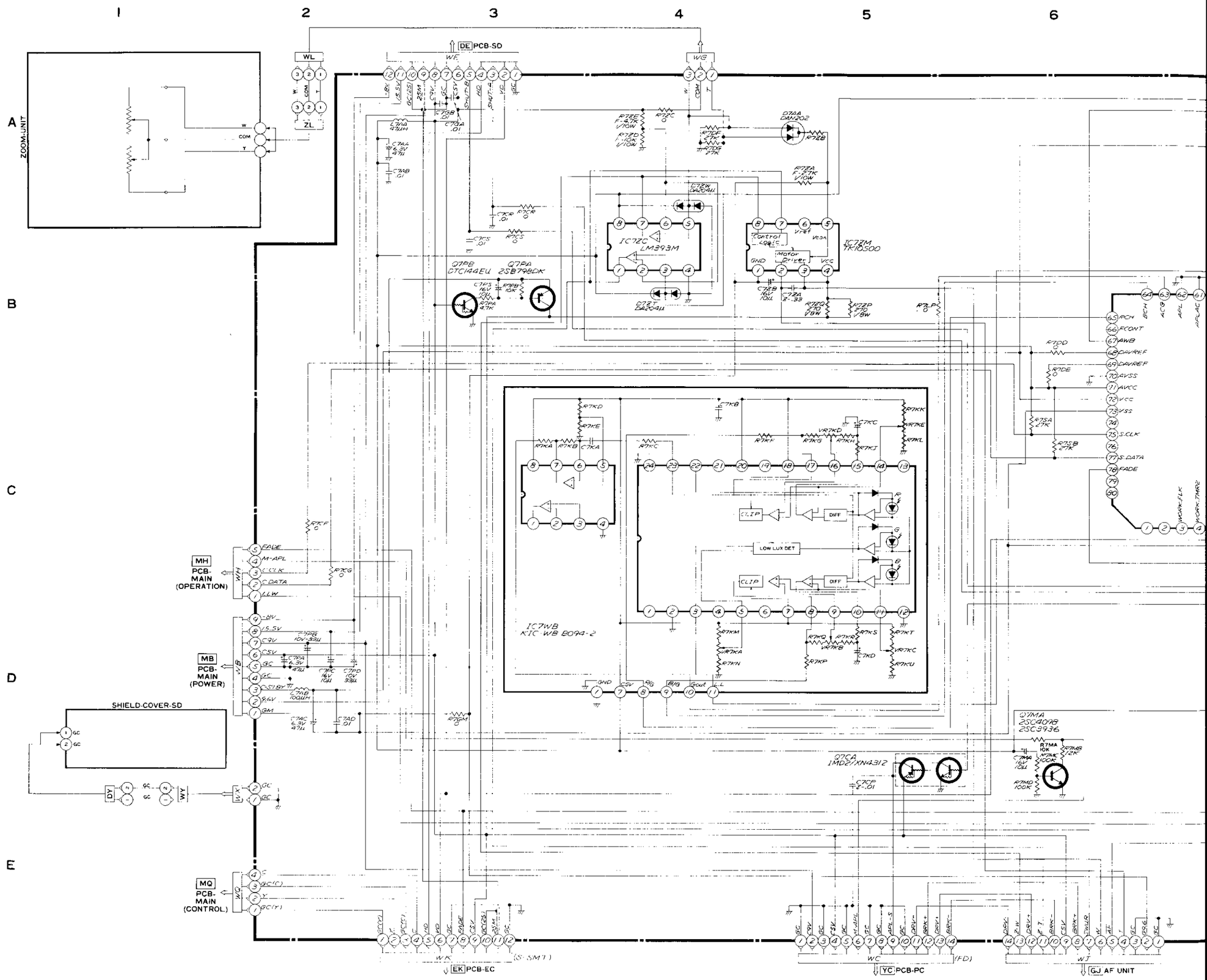
WC ⇨ PCB-CM

HS-C40A
HS-C40B
HS-C40E(2/9)


1
2
3
4
5
6
A
B
C
D
E
YB PCB-PC
E.M (MD)
GM AF UNIT
IC21L KIC-FLL
IC21M SC75U04F
IC21E SC75U04F
IC21K SC14501F
IC21D MN67621F
IC21H SC14501F
IC21C SC14501F
Q22B 2SA1576® 2SB1218®
Q22A IMX1
Q22C 2SC4098® 2SC3936®
Q2JA IMX1/XN4501
Q21C IMEV/XN4601
Q2KJ 2SA1576® 2SB1218A®
Q2KA IMEV/XN4601
Q21K 2SC4098® 2SC3936®
Q22D IMT1
Q2KB IMX1
Q21L IMXV/XN4501

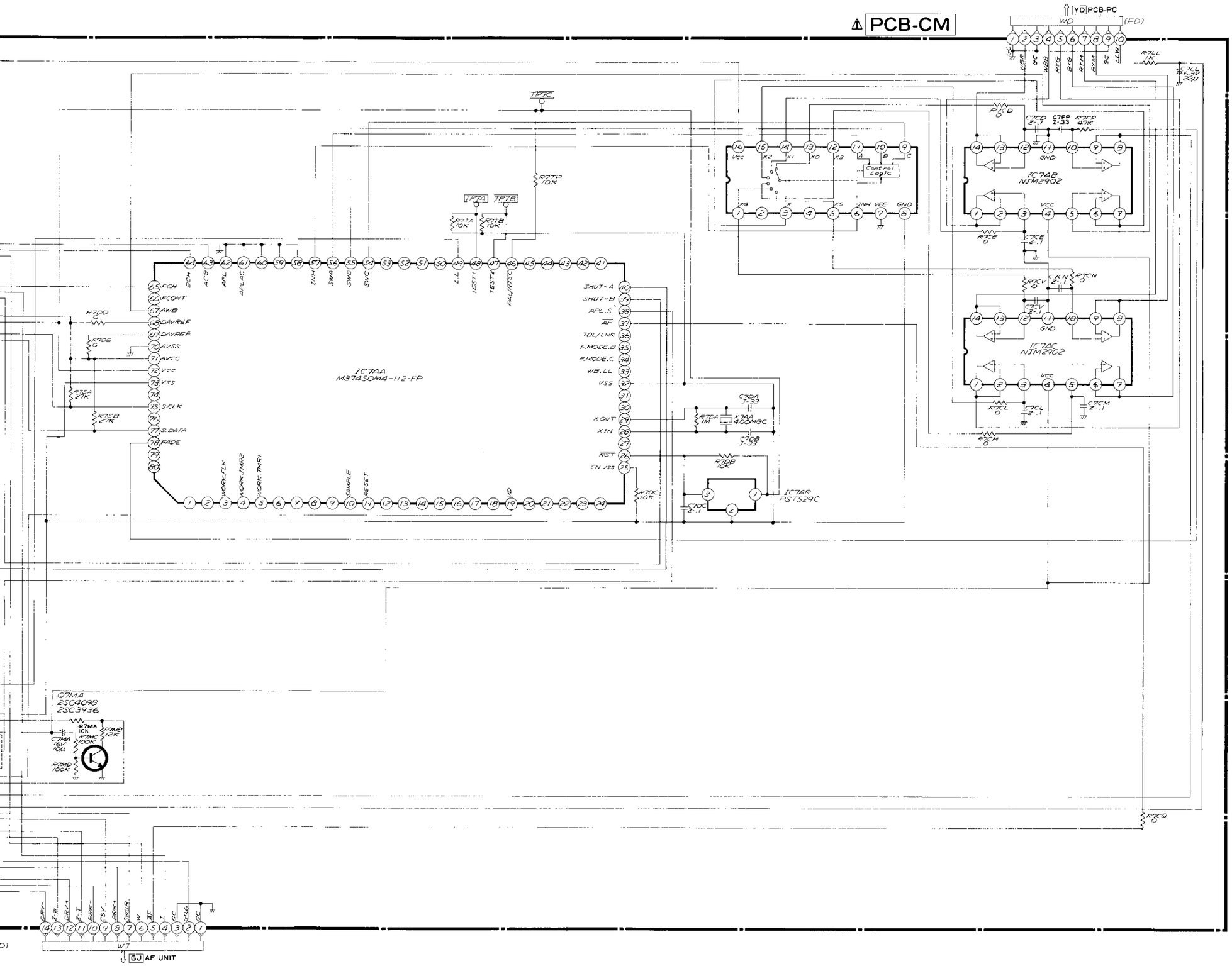


2
3
4
5
6
7
8
9
PCB-EC (ENCODER)
YB PCB-PC
EB
(F)
IC2JM SC7SU04F
Q2KT 2SC4098® 2SC3936©
Q2KL 2SA1576® 2SB1218A®
IC2JE SC7SU04F
IC2JD MN57621F
IC2JK SC14S01F
Q2ZB 2SA1576® 2SB1218®
Q2ZA IMX1
Q2ZC 2SC4098® 2SC3936©
Q2JA IMX1/XN4501
Q2JC IMZ1/XN4601
Q2JE IMX1/XN4501
Q2KC IMX1/XN4501
Q2KD IMX1/XN4501
Q2KE IMT1
Q2KF 2SC4098® 2SC3936©
Q2KG 2SC4098® 2SC3936©
Q2JZ 2SC4098® 2SC3936©
Q2KA IMZ1/XN4601
IC2JA HA11776AMP
IC2JB SC14S01F
Q2ZD IMT1
Q2ZE IMZ1/XN4601
Q2JW 2SA1576® 2SB1218A®
Q2JK 2SC4098® 2SC3936©
IC2JC SC14S01F
Q2KK 2SC4098® 2SC3936©
Q2KB IMX1
Q2JL IMX1/XN4501
TP2JC
0.9Vp-p 20μ sec
TP2JB
0.6Vp-p 20μ sec
PCB-CM WK
EX
LM
(MD)
GM AF UNIT

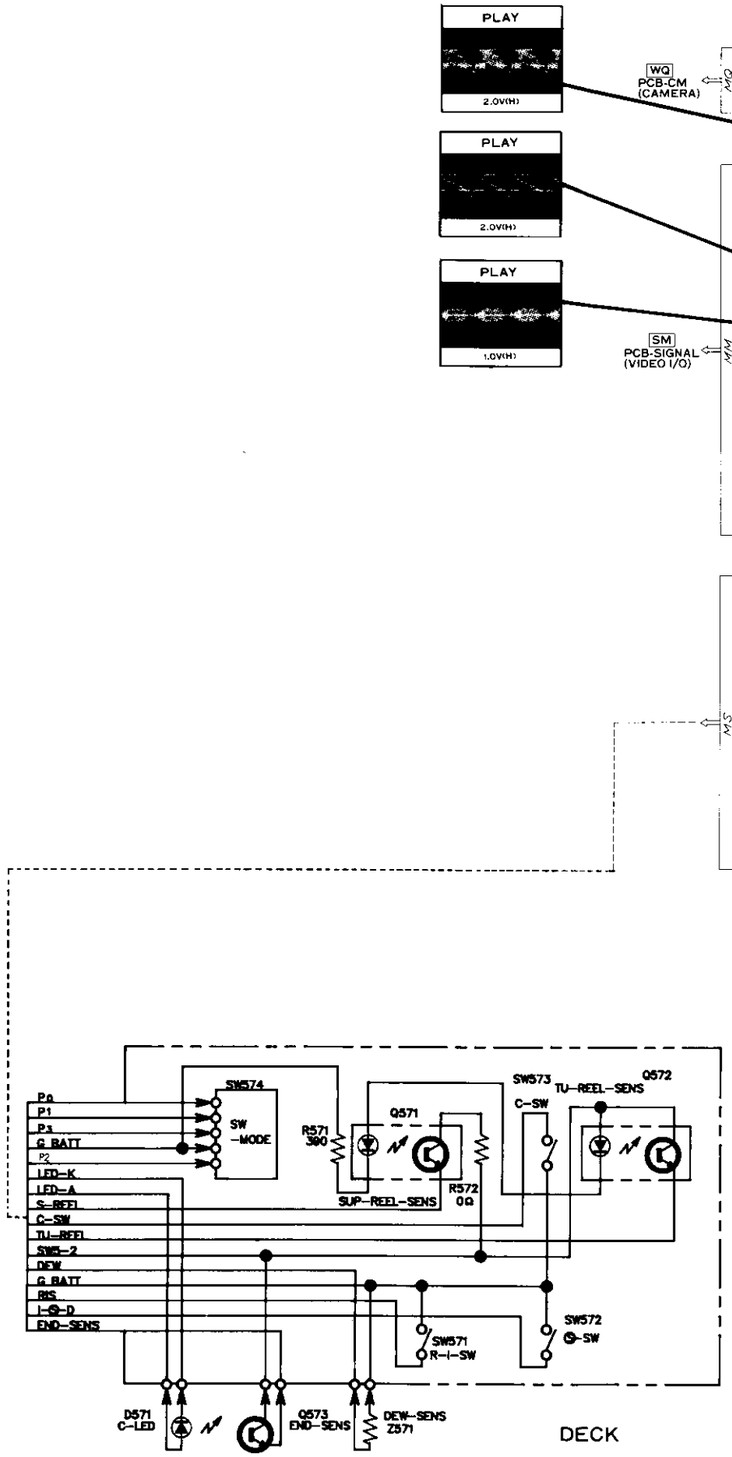

1
2
3
4
5
6
A
B
C
D
E
ZOOM-UNIT
WL
ZL
DE PCB-SD
WF
WG
IC7ZC LM393M
IC7ZM PK10500
IC7WB KIC WB 8094-2
LOW LUX DET
CLIP
DIFF
MH PCB-MAIN (OPERATION)
MB PCB-MAIN (POWER)
MQ PCB-MAIN (CONTROL)
SHIELD-COVER-SD
EK PCB-EC
YC PCB-PC
GJ AF UNIT

6 7 8 9 10 11 12

⚠ PCB-CM



HS-C40A
HS-C40B
HS-C40E(3/9)


PLAY
2.0V(H)
PLAY
2.0V(H)
PLAY
1.0V(H)
WQ
PCB-CM
(CAMERA)
SM
PCB-SIGNAL
(VIDEO I/O)
SW574
SW
-MODE
R571
390
Q571
SUP-REEL-SENS
R572
0Ω
SW573
C-SW
TU-REEL-SENS
Q572
SW572
S-SW
SW571
R-I-SW
D571
C-LED
Q573
END-SENS
DEW-SENS
Z571
P0
P1
P3
G.BATT
P2
LED-K
LED-A
S-REEL
C-SW
TU-REEL
SW5-2
DEW
G.BATT
RIS
I-S-D
END-SENS
DECK

TP5A PLAY
5.0Vp-p(V)
IC5A0
M37405M5-106
IC5A1
TC4077BF
IC5A2
LM393M
TO AUDIO(PCB-MAIN)

(CONTROL) ⚠ PCB-MAIN

IC2S1 NJM2244M

IC2S2 NJM2244M

IC4A0 M5223FP

IC4A2 BA6109U2

IC5A0 M37405M5-106FP

TP5A PLAY 5.0Vp-p(V)

MA②PLAY 5.0Vp-p(V)

MA③PLAY (V)

MA④REC 5.0Vp-p 0.1msec

MA⑤REC 5.0Vp-p 0.5msec

MA⑥REC 5.0Vp-p(V)

AA PCB-MDA

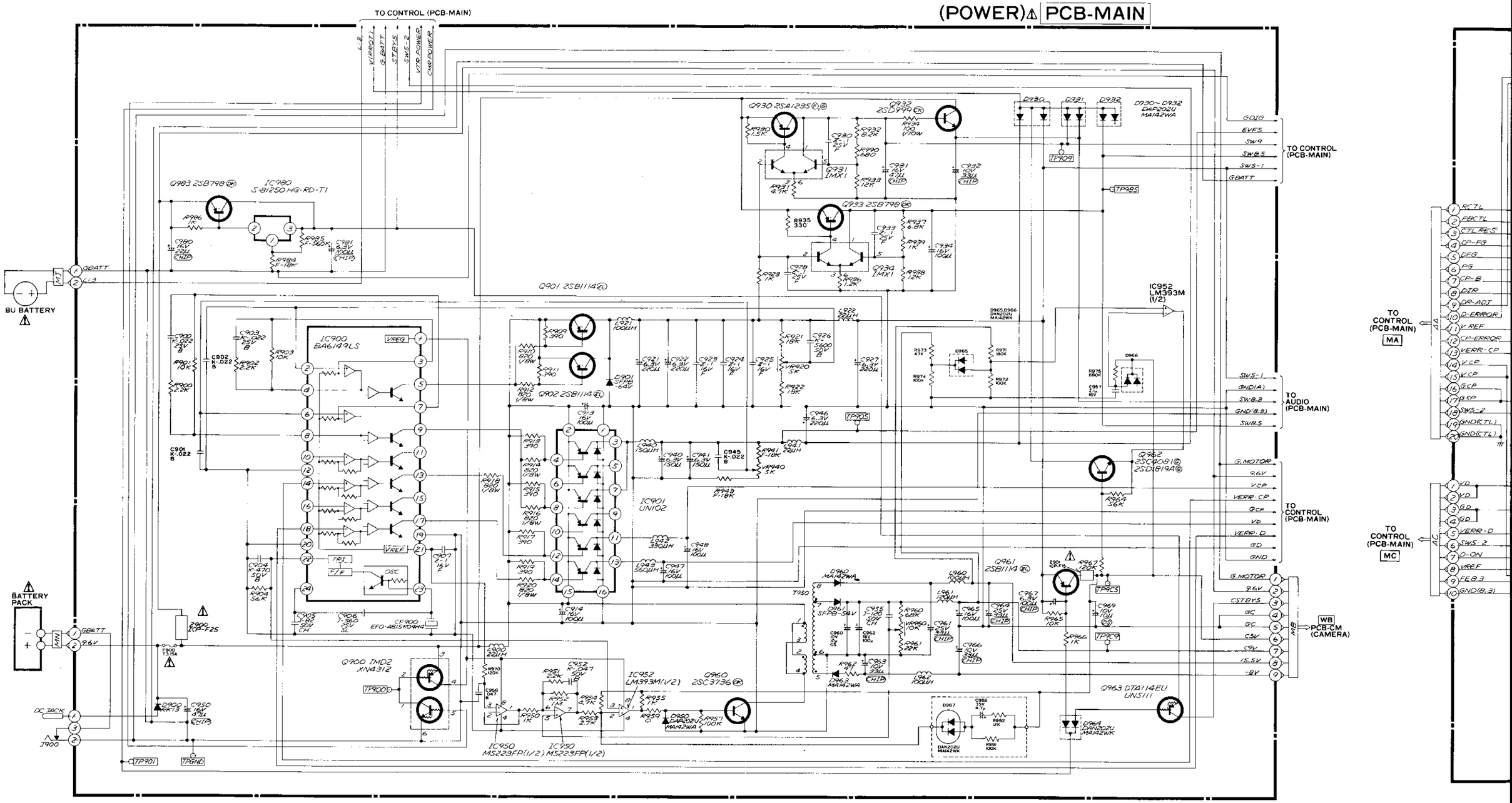
AC PCB-MDA

M573 LOADING MOTOR

TO POWER (PCB-MAIN)

TO OPERATION(PCB-MAIN)

SG PCB-SIGNAL(Y)



⚠

SERVICING PRECAUTION

SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFOR REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS.

DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.

7 8 9 10 11 12 13 14

⚠ PCB-MDA

TO CONTROL (PCB-MAIN)

TO AUDIO (PCB-MAIN)

TO CONTROL (PCB-MAIN)

WB PCB-CM (CAMERA)

TO CONTROL (PCB-MAIN) MA

TO CONTROL (PCB-MAIN) MC

IC420 MS1795FP

IC421 MS223FP

IC400 BA6431F

IC450 BA6455FS

Q400 2SC4081Q 2SD1819AQ

Q420 2SC4081Q 2SD1819AQ

Q450 2SC4081Q 2SD1819AQ

Q480 2SD1949Q

D450 DAN202U MA142WK

T571

T572

CAPSTAN MOTOR

CP MOTOR

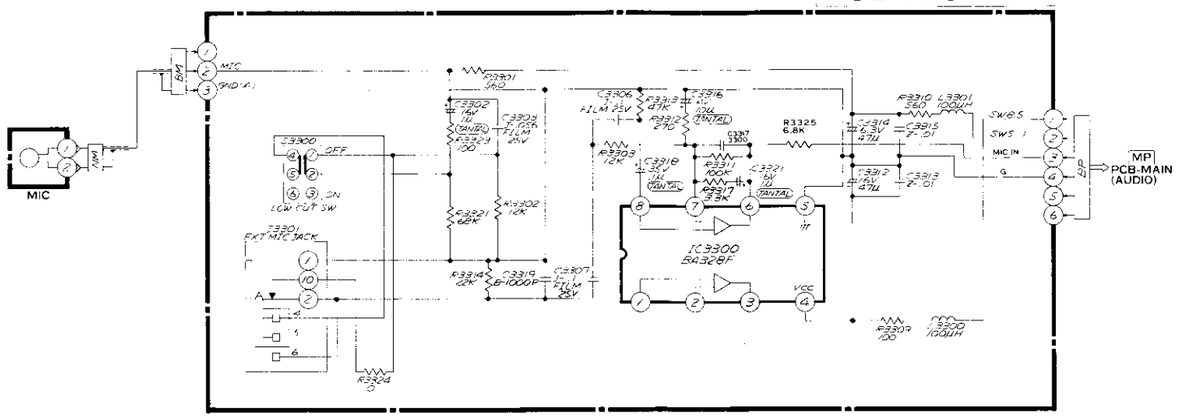
DRUM MOTOR

HS-C40A
HS-C40B
HS-C40E(4/9)

1 2 3 4 5 6 7

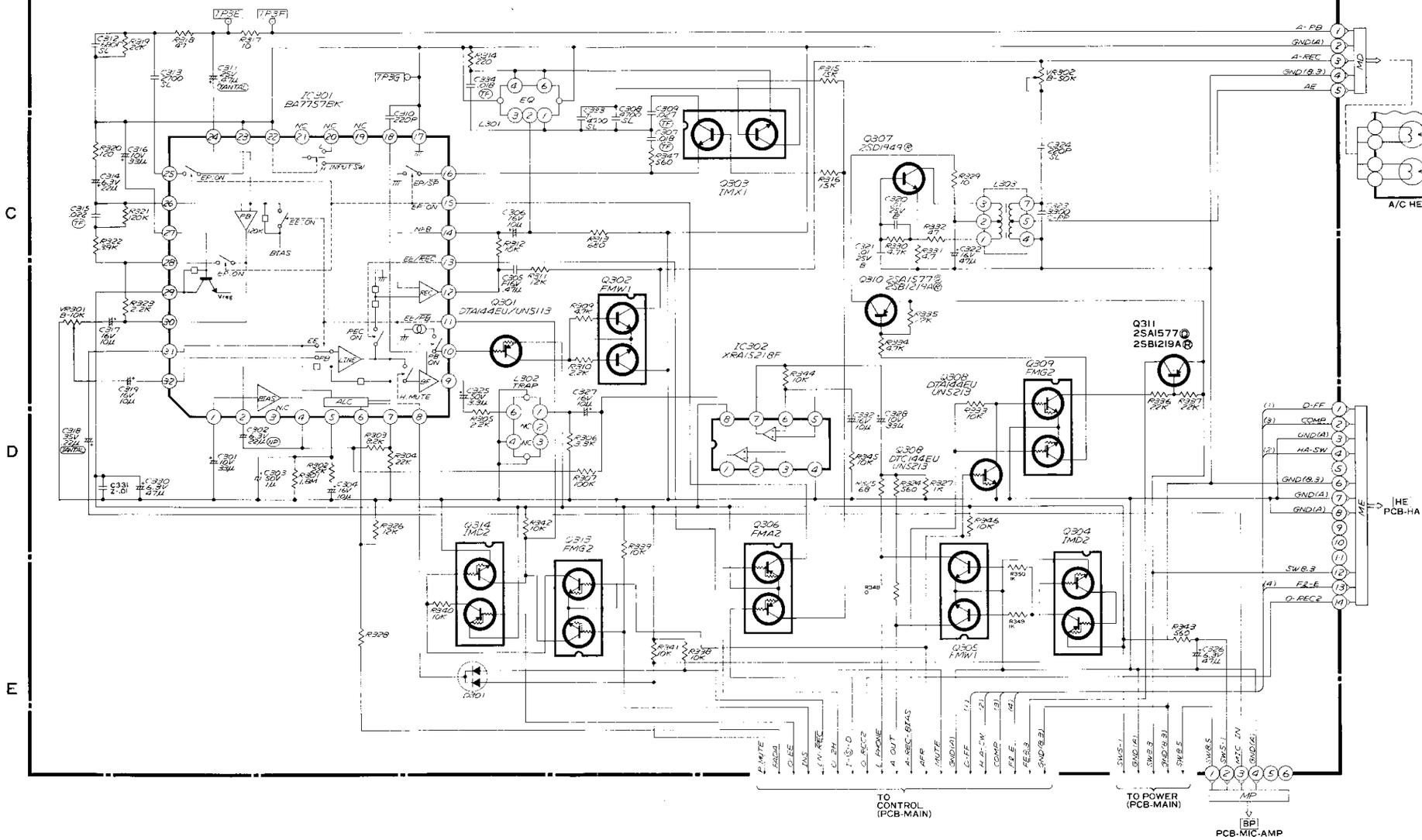
A

⚠ PCB-MIC AMP



B

(AUDIO) ⚠ PCB-MAIN



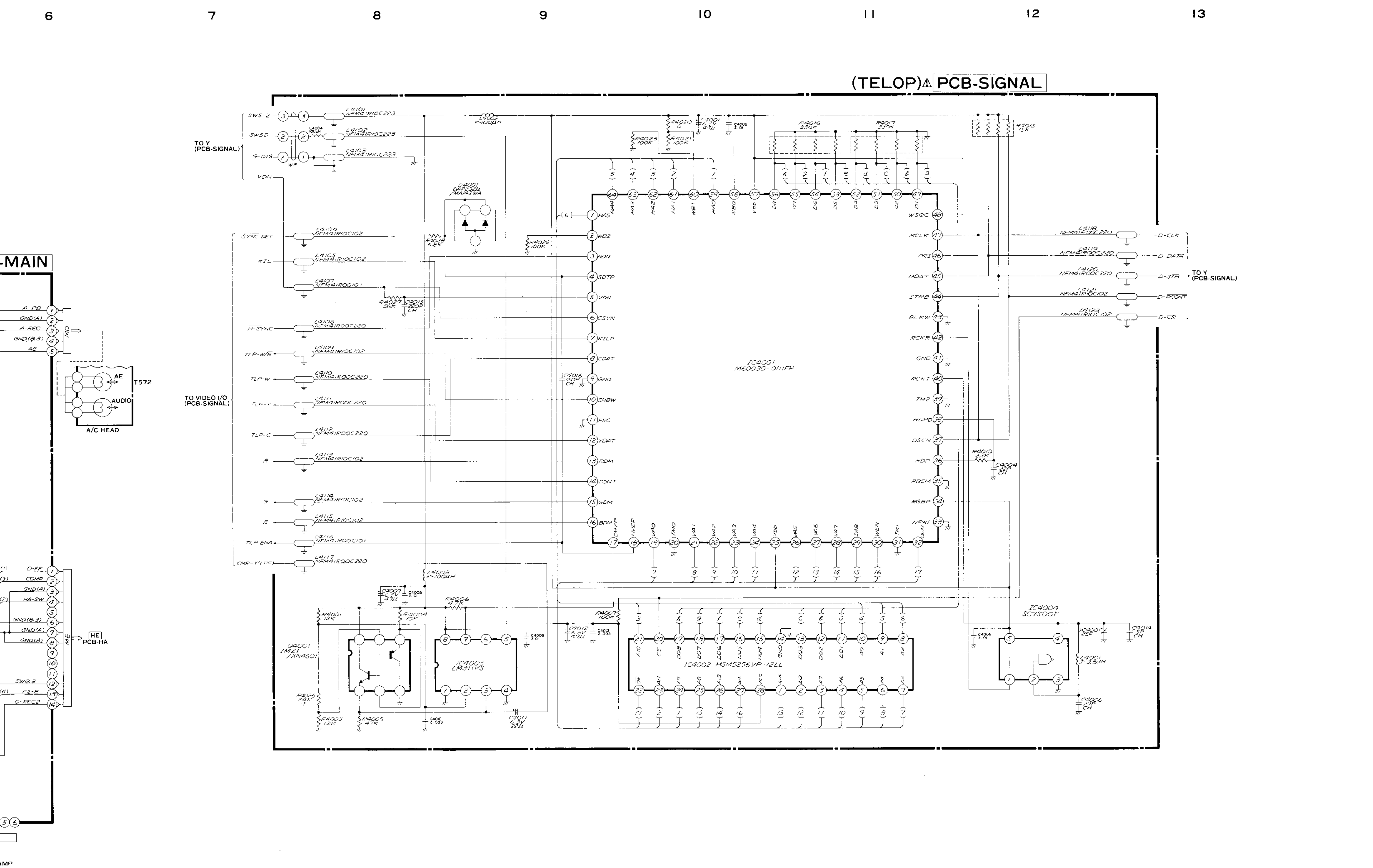
C

TO Y (PCB-SIGNAL)

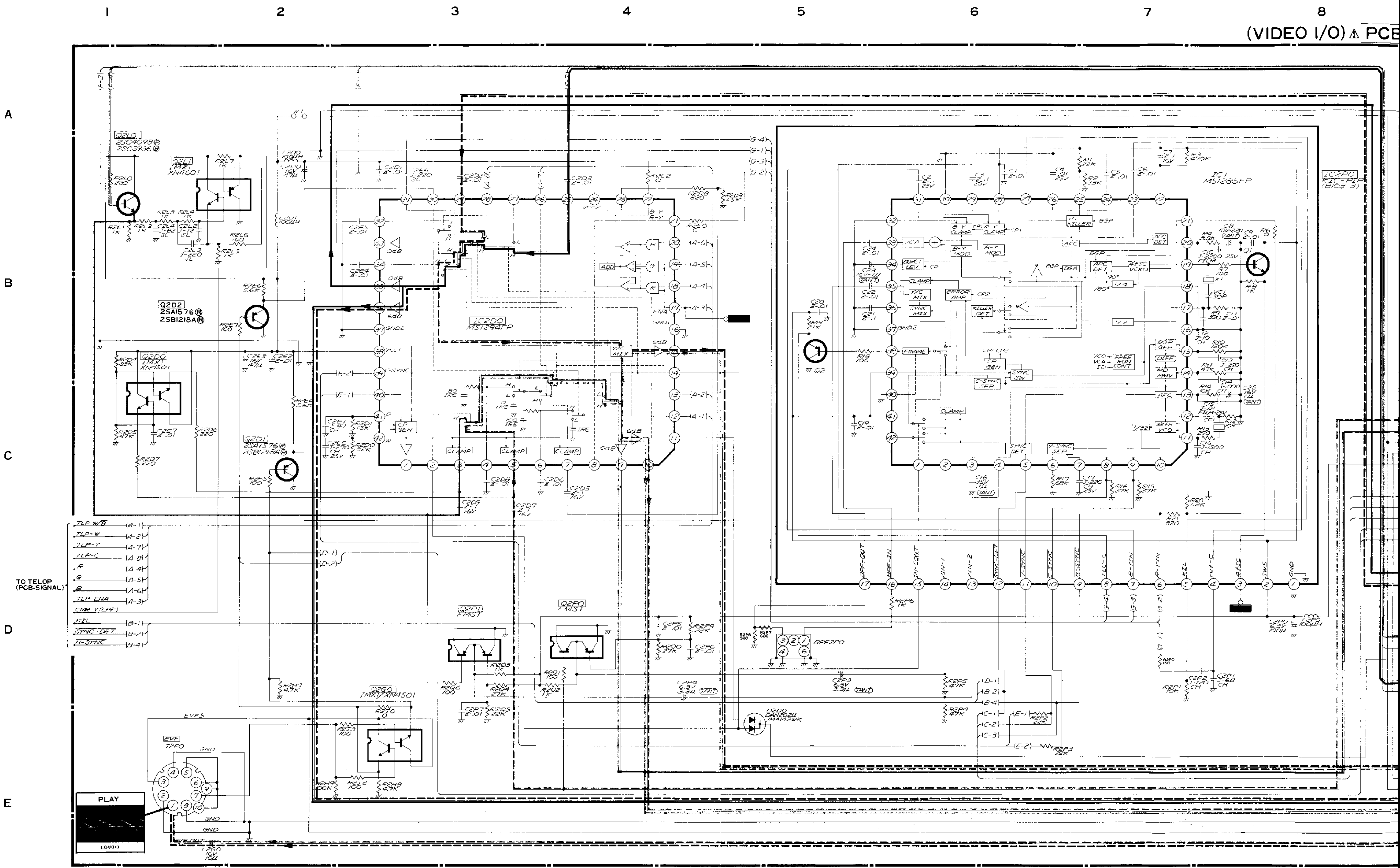
TO VIDEO I/O (PCB-SIGNAL)

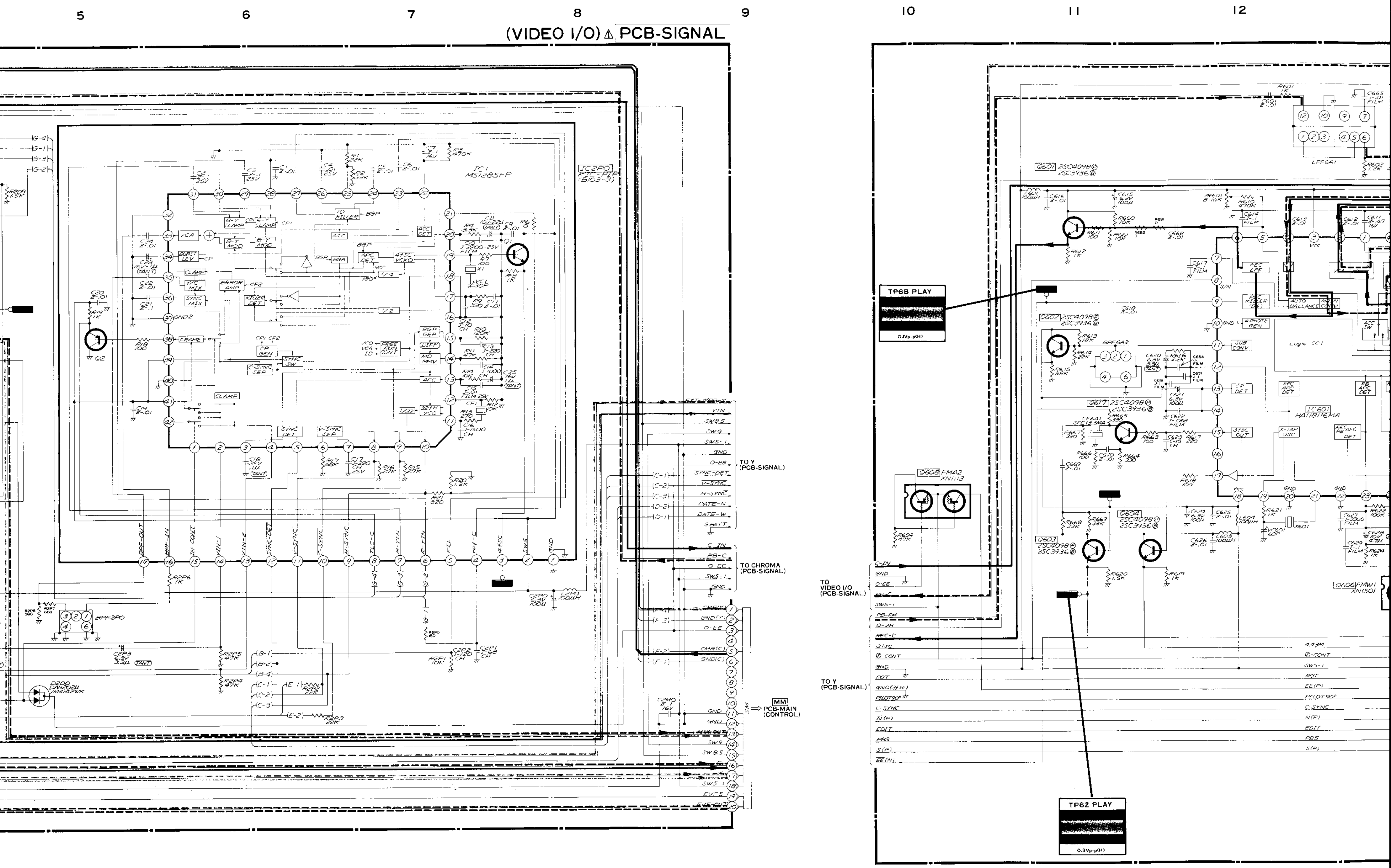
D

E



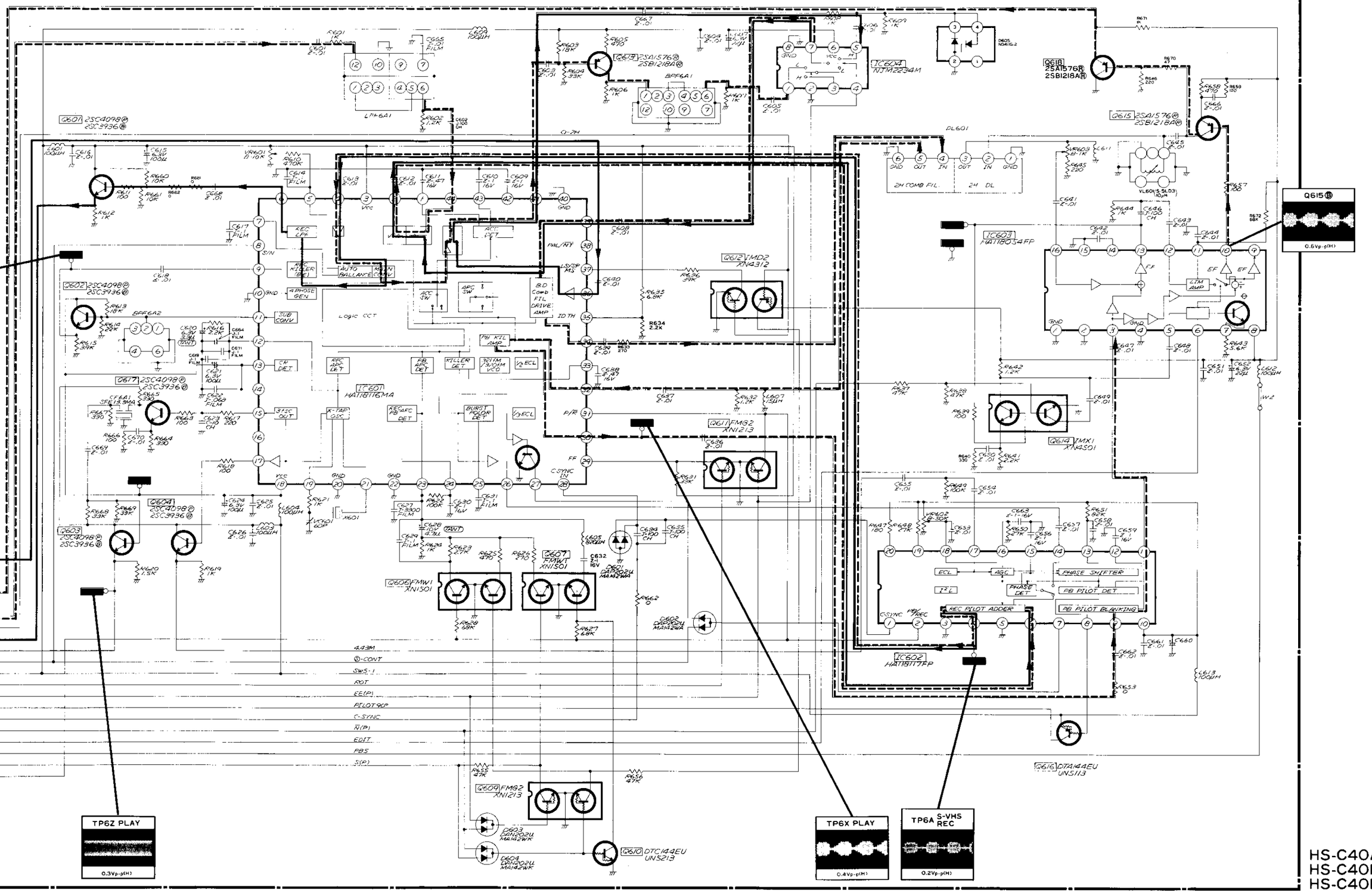
6
7
8
9
10
11
12
13
(TELOP) PCB-SIGNAL
-MAIN
TO Y (PCB-SIGNAL)
TO VIDEO I/O (PCB-SIGNAL)
TO Y (PCB-SIGNAL)
IC4001 M60030-0111FP
IC4002 MSM5256VP-12LL
IC4003 LM311PS
IC4004 SC7S00F
Q4001 IMZ1 /XN4601
D4001 DAP202U /MA142WA
AE
AUDIO
T572
A/C HEAD
HE PCB-HA
AMP


(VIDEO I/O) ⚠ PCB
1
2
3
4
5
6
7
8
A
B
C
D
E
Q2L0 2SC4098 2SC3936
Q2L1 IMZ1 XN4601
Q2D2 2SA1576 2SB1218A
Q2D0 IMX1 XN4501
Q2D1 2SA1576 2SB1218A
IC2D0 M51244FP
IC1 M51285FP
IC2P0 KIC-PIP
Q2P1 FMS1
Q2P0 FMS1
Q2G0 IMX1/XN4501
BPF2P0
D2D0 DAN202U /MA142WK
TO TELOP (PCB-SIGNAL)
TLP W/B
TLP-W
TLP-Y
TLP-C
R
G
B
TLP-ENA
CMR-Y(LPF)
KIL
SYNC DET
H-SYNC
EVF
EVF5
J2F0
GND
EVF OUT
PLAY
1.0V(H)
BPF-OUT
BPF-IN
N-CONT
VIN-1
VIN-2
SYNC-DET
V-SYNC
H-SYNC
TLC-C
B-YIN
R-YIN
KIL
Y+C
4fSC
SW5
GND

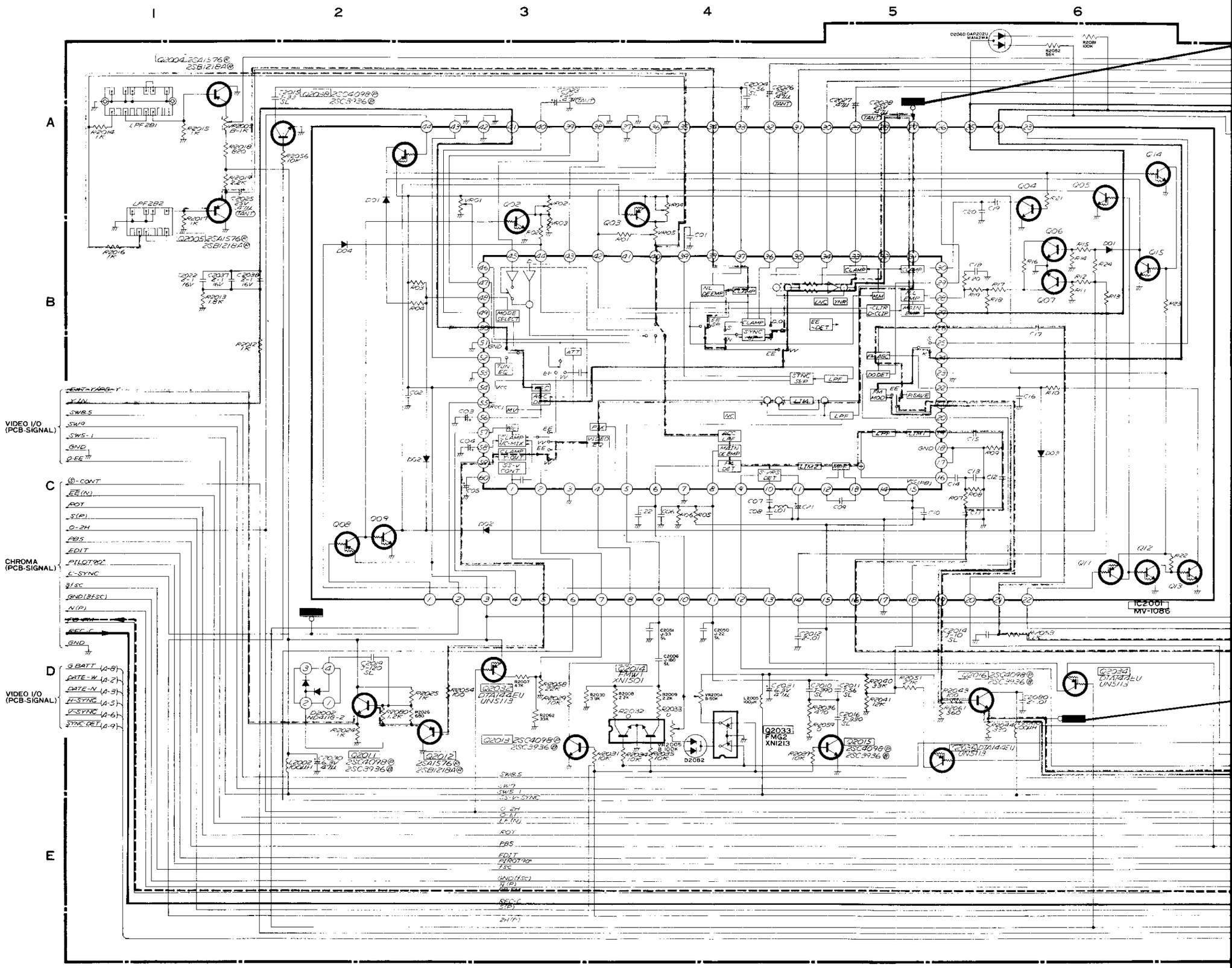


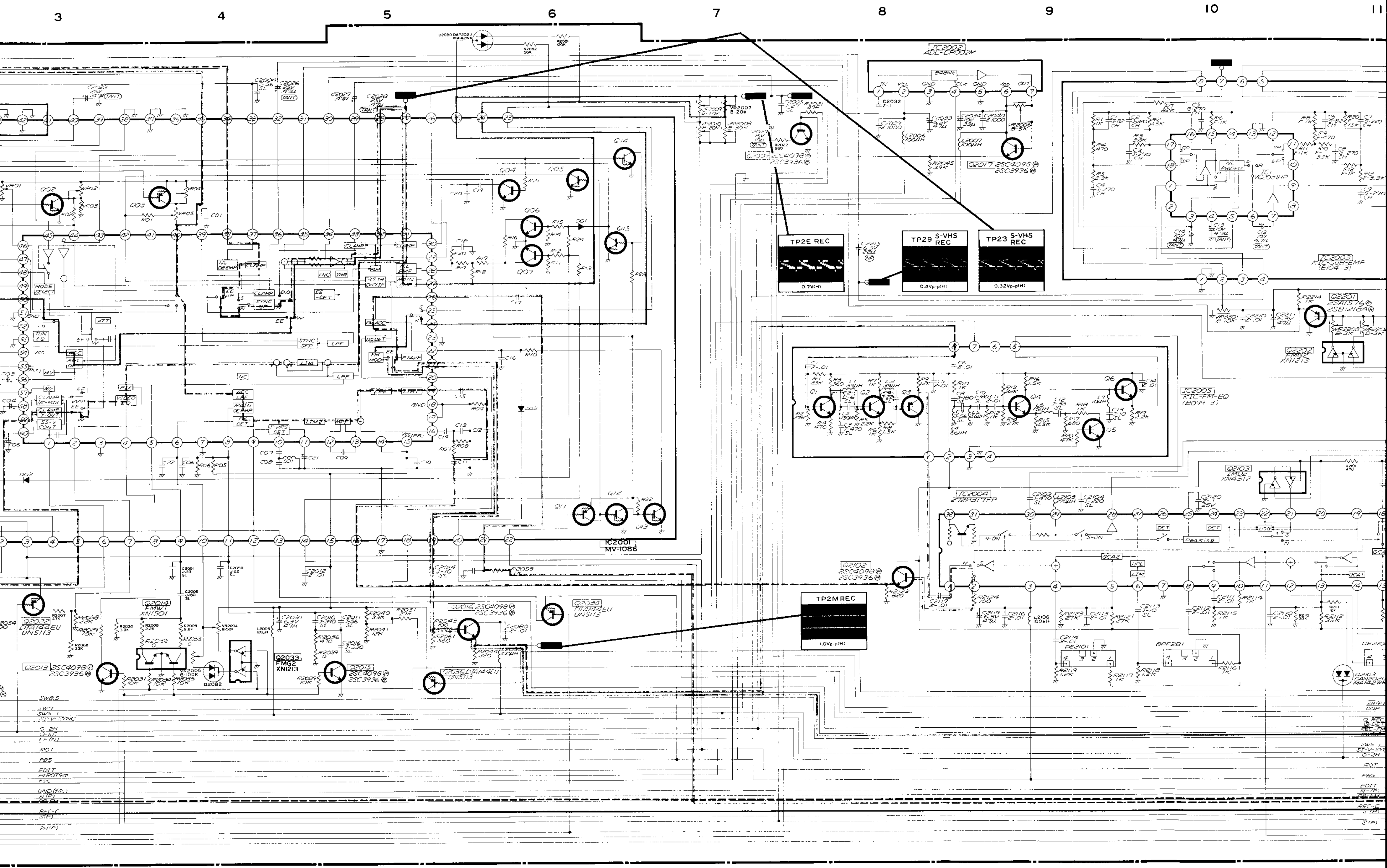
5
6
7
8
9
10
11
12
(VIDEO I/O) ⚠ PCB-SIGNAL
IC1 M51285FP
IC2PO
TP6B PLAY
0.3Vp-p(H)
TP6Z PLAY
0.3Vp-p(H)
TO Y (PCB-SIGNAL)
TO CHROMA (PCB-SIGNAL)
MM PCB-MAIN (CONTROL)
TO VIDEO I/O (PCB-SIGNAL)
TO Y (PCB-SIGNAL)
IC601 HA118116MA
Q601 2SC4098 2SC3936
Q602 2SC4098 2SC3936
Q603 2SC4098 2SC3936
Q604 2SC4098 2SC3936
Q617 2SC4098 2SC3936
Q608 FMA2 XN1113
Q606 FMW1 XN1501
BPF2PO
LFF6A1

(CHROMA) ⚠ PCB-SIGNAL



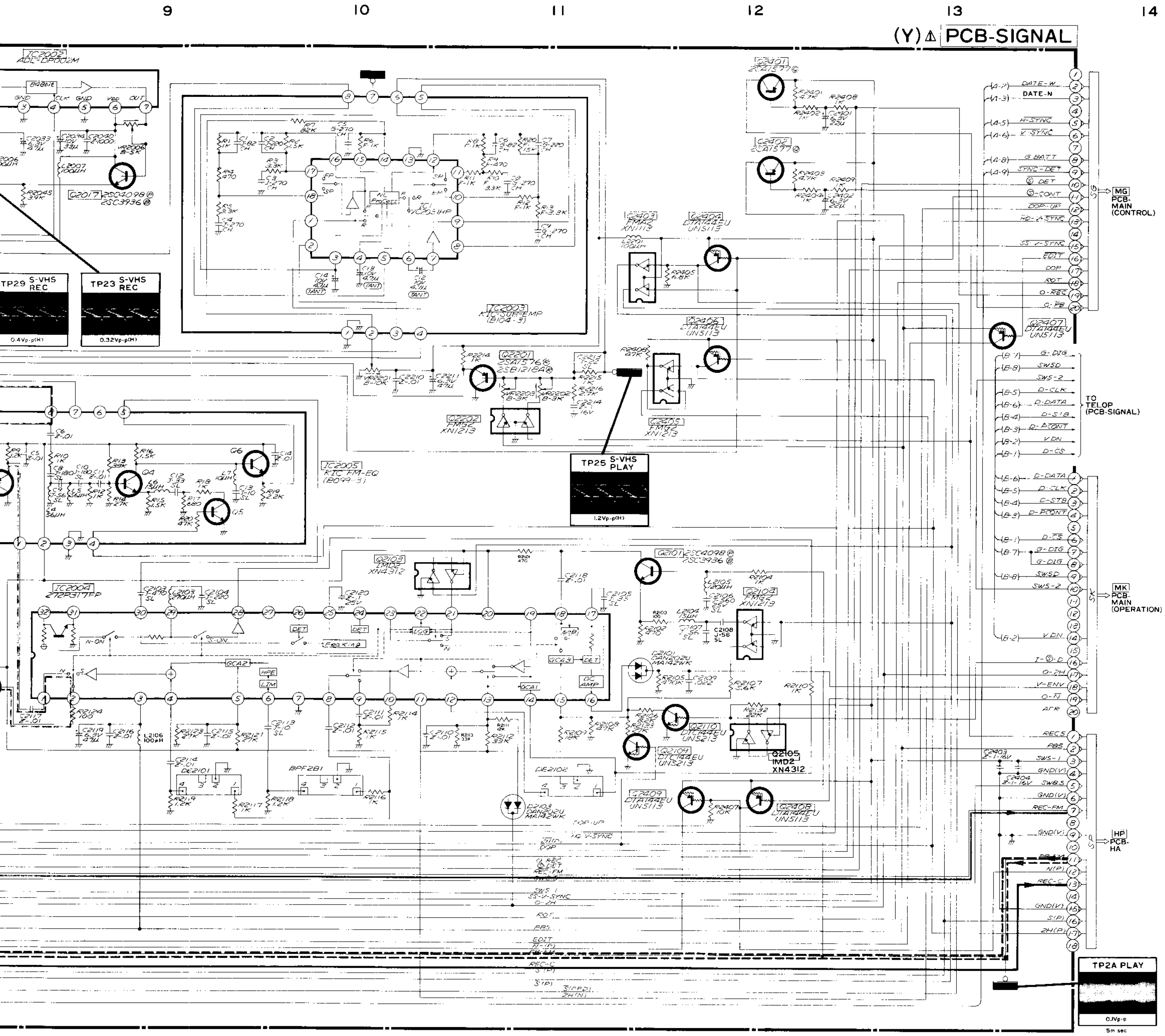
HS-C40A
HS-C40B
HS-C40E(5/9)


1
2
3
4
5
6
A
B
C
D
E
VIDEO I/O (PCB-SIGNAL)
CHROMA (PCB-SIGNAL)
VIDEO I/O (PCB-SIGNAL)
Q2004 2SA1576 2SB1218A
Q2005 2SA1576 2SB1218A
Q2018 2SC4098 2SC3936
LPF281
LPF282
Q2002 ND4116-2
Q2011 2SC4098 2SC3936
Q2012 2SA1576 2SB1218A
Q2013 DTA124EU UN5113
Q2014 FMW1 XN1501
Q2015 2SC4098 2SC3936
Q2016 2SC4098 2SC3936
Q2017 DTA144EU UN5113
Q2024 DTA124EU UN5113
Q2033 FMG2 XN1213
D2082
IC2001 MV-1086
MODE SELECT
TUN EQ
ATT
ABCC
ABCC DET
CLAMP
SYNC SEP
LPF
EE DET
S-VRS DET
PAL
WIDE EQ
CLAMP V.OUT
SS-V CONT
CLAMP DC-MIX
CLAMP P.OUT
MAIN DEMP
NL DEMP
CLIP
CLAMP
SYNC
DD DET
PM MOD
RSAVE
GND
VCC(PB)
SW5-S
SW-9
SW5-1
SS-V-SYNC
Q-2H
Q-ET
EE(N)
ROT
PBS
EDIT
P(LOT90°
FSC
GND(FSC)
S(P)
REF-C
GND
2H(P)
G BATT (A-8)
DATE-W (A-2)
DATE-N (A-3)
H-SYNC (A-5)
V-SYNC (A-6)
SYNC DET (A-9)
EE(N)
S(P)
Q-2H
PBS
GND
GND(3FSC)
N(P)
REF-C
GND

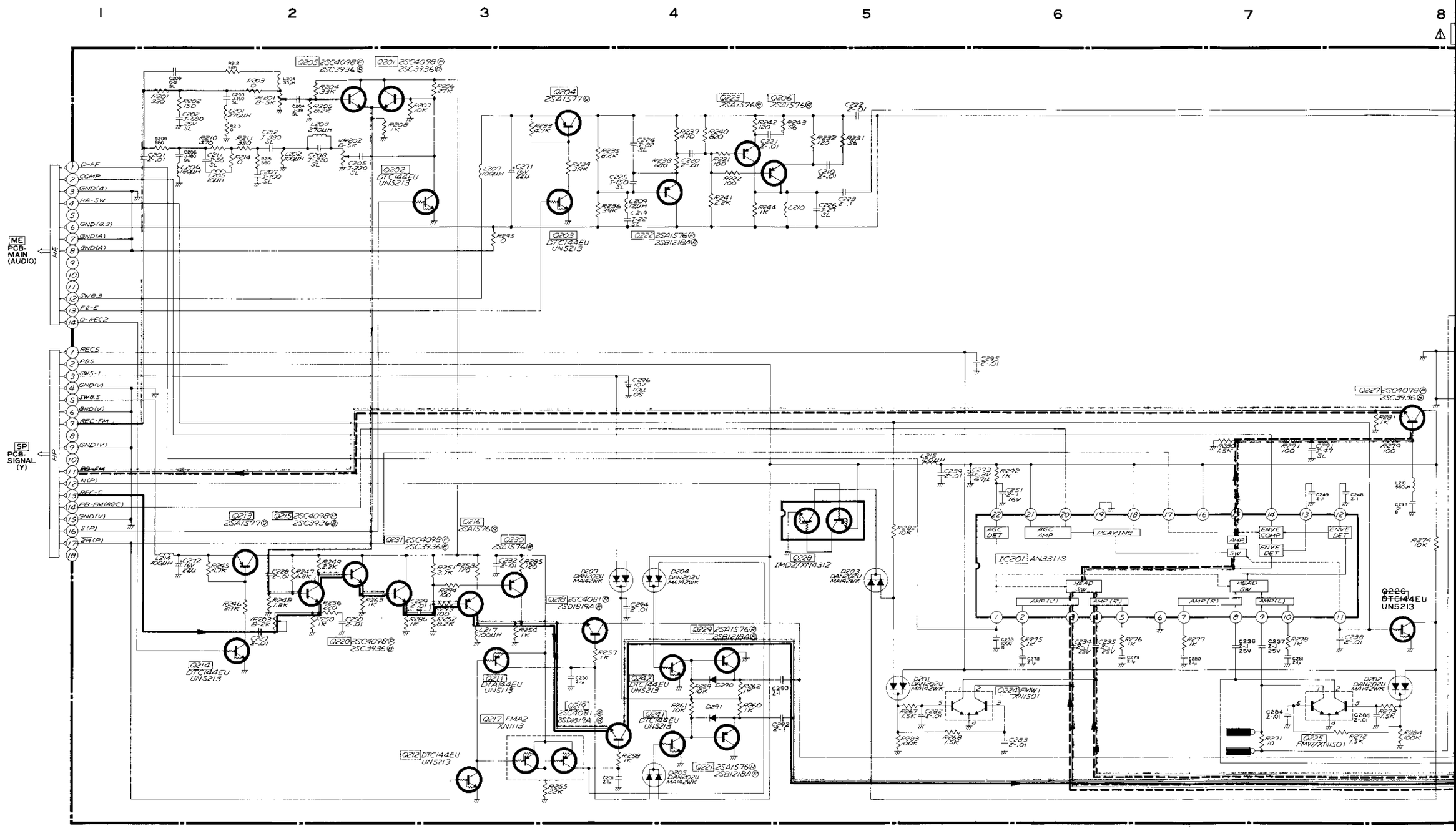


3
4
5
6
7
8
9
10
IC2002
ADE-CF002M
IC2001
MV-1086
TP2E REC
0.7V(H)
TP29 S-VHS REC
0.4Vp-p(H)
TP23 S-VHS REC
0.32Vp-p(H)
TP2MREC
1.0Vp-p(H)
IC2005
IC2004
Q2017 2SC4098 2SC3936
Q2102 2SC4098 2SC3936
Q2201
Q2202 FMG2 XN1213
Q2103
Q2014 FMW1 XN1501
Q2033 FMG2 XN1213
Q2013 2SC4098 2SC3936
Q2015 2SC4098 2SC3936
Q2016 2SC4098 2SC3936
Q2032 DTA144EU UN5113
D2082
Peaking
DET
SW8.5
ROT
PBS
EDIT
REC-C
S(P)

(Y) ⚠ PCB-SIGNAL



9
10
11
12
13
14
IC2002 ADL-DP002M
IC2003
IC2004 27CP317FP
IC2005 KIC-FM-EQ
Q2017 2SC4098 2SC3936
Q2201 2SA1576 2SB1218A
Q2202 FMG2 XN1213
Q2101 2SC4098 2SC3936
Q2103 IMD2 XN4312
Q2105 IMD2 XN4312
Q2401
Q2402 2SA1577
Q2403 FMA2 XN1113
Q2404 DTA144EU UN5113
Q2405 FMG2 XN1213
Q2406 DTA144EU UN5113
Q2407 DTA144EU UN5113
Q2408 DTA144EU UN5113
Q2409 DTA144EU UN5113
Q2110 DTC144EU UN5213
Q2104 DTC144EU UN5213
TP29 S-VHS REC
0.4Vp-p(H)
TP23 S-VHS REC
0.32Vp-p(H)
TP25 S-VHS PLAY
1.2Vp-p(H)
TP2A PLAY
0.1Vp-p
5m sec
DATE-W
DATE-N
H-SYNC
V-SYNC
G.BATT
SYNC-DET
DET
CONT
DOP-UP
HD-A-SYNC
SS-V-SYNC
EDIT
DOP
ROT
O-REC
O-PB
MG PCB-MAIN (CONTROL)
G-DIG
SWSD
SWS-2
D-CLK
D-DATA
D-STB
D-PCONT
V-DN
D-CS
TO TELOP (PCB-SIGNAL)
MK PCB-MAIN (OPERATION)
O-2H
V-ENV
AFR
RECS
PBS
SWS-1
GND(V)
SWB.S
REC-FM
GND(V)
N(P)
REC-C
S(P)
2H(P)
HP PCB-HA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2
3
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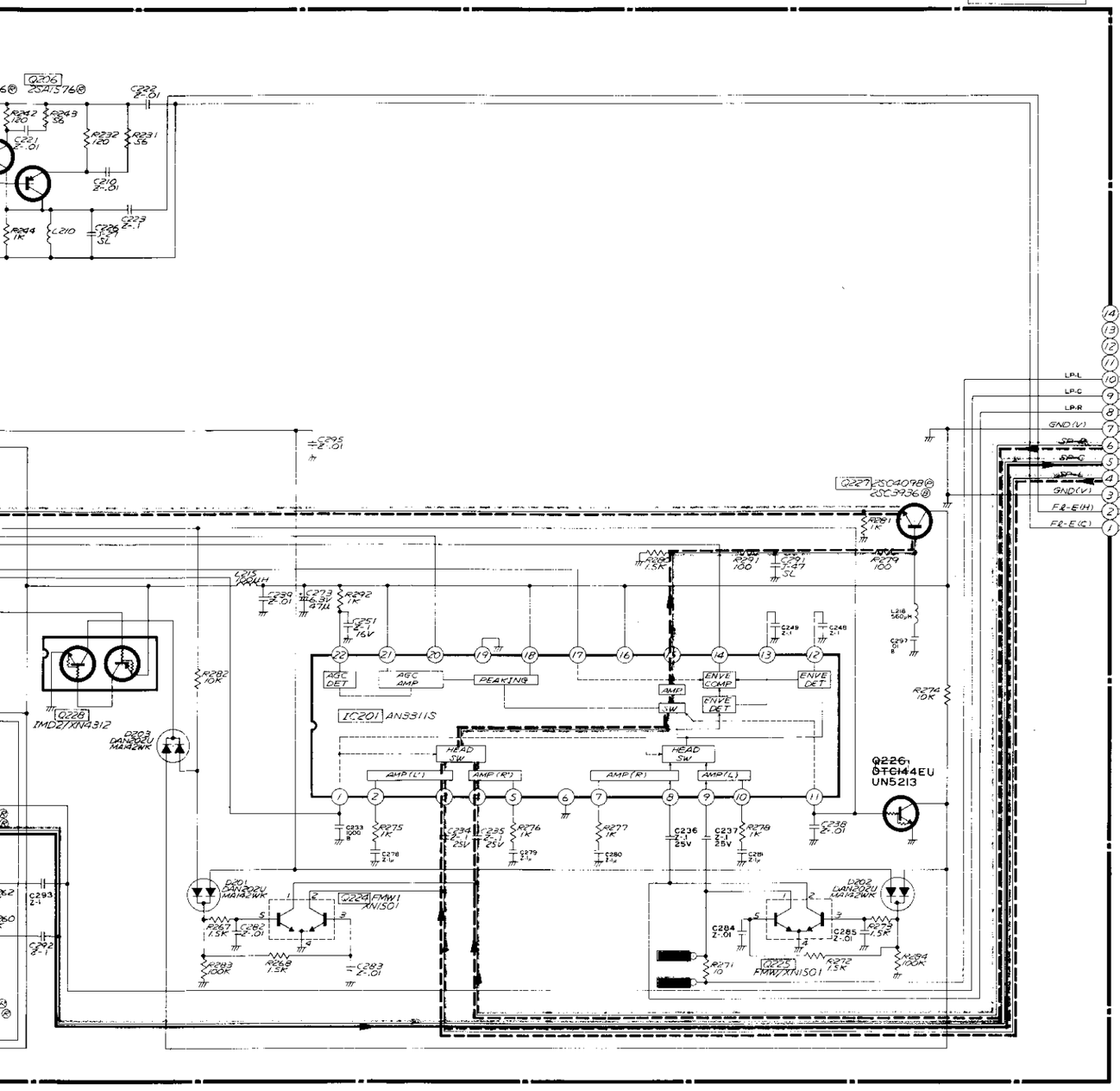
7
8
A
B
C
D
E
ME
PCB-
MAIN
(AUDIO)
HE
SP
PCB-
SIGNAL
(Y)
HP
D-I-F
COMP
GND(A)
HA-SW
GND(8.3)
GND(A)
SW8.3
F2-E
D-REC2
RECS
PBS
SW5-1
GND(V)
SW8.5
GND(V)
REC-FM
GND(V)
PB-FM
N(P)
REC-S
PB-FM(AGC)
GND(V)
S(P)
PB(P)
Q205 2SC4098(P) 2SC3936(Q)
Q201 2SC4098(P) 2SC3936(Q)
Q204 2SA1577(Q)
Q223 2SA1576A(Q)
Q206 2SA1576A(Q)
Q202 DTC144EU UN5213
Q203 DTC144EU UN5213
Q222 2SA1576(Q) 2SB1218A(Q)
Q213 2SA1577(Q)
Q215 2SC4098(P) 2SC3936(Q)
Q216 2SA1576A(Q)
Q231 2SC4098(P) 2SC3936(Q)
Q230 2SA1576A(Q)
Q228 IMD27/XN4312
Q214 DTC144EU UN5213
Q220 2SC4098(P) 2SC3936(Q)
Q218 2SC4081(Q) 2SD1819A(Q)
Q211 DTA114EU UN5113
Q217 FMA2 XN1113
Q210 2SC4081(Q) 2SD1819A(Q)
Q212 DTC144EU UN5213
Q229 2SA1576(Q) 2SB1218A(Q)
Q232 DTC144EU UN5213
Q234 DTC144EU UN5213
Q221 2SA1576(Q) 2SB1218A(Q)
Q227 2SC4078(Q) 2SC3936(Q)
Q226 DTC144EU UN5213
Q224 FMW1 XN1501
Q225 FMW1/XN1501
IC201 AN3311S
AGC DET
AGC AMP
PEAKING
ENVE COMP
ENVE DET
AMP
SW
HEAD SW
AMP(L')
AMP(R')
AMP(R)
AMP(L)
D201 DAN202U MA142WK
D202 DAN202U MA142WK
D203 DAN202U MA142WK
D204 DAN202U MA142WK
D205 DAN202U MA142WK
D207 DAN202U MA142WK
D290
D291

5 6 7 8 9 10 11 12

⚠ PCB-HA



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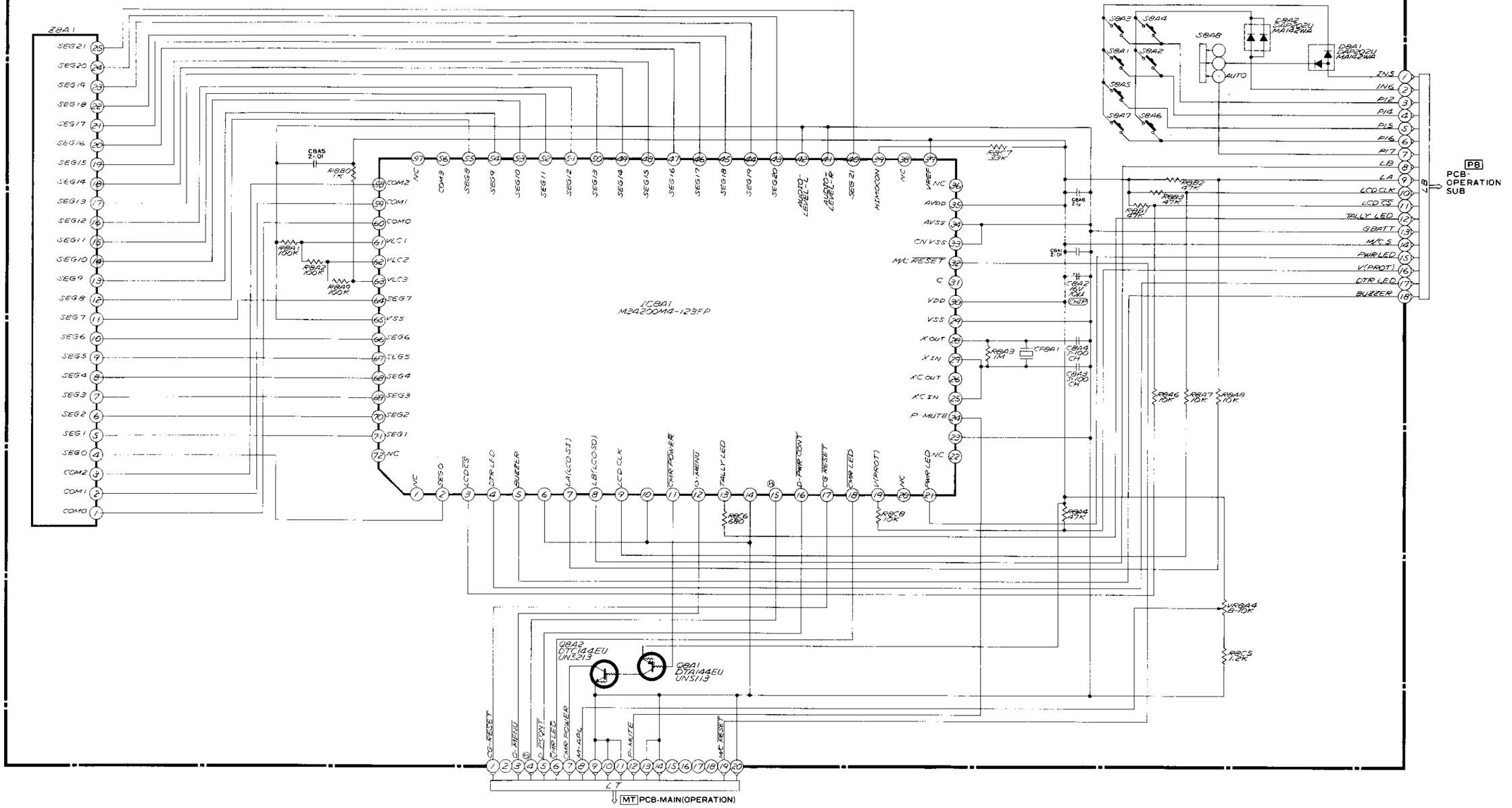
⚠ PCB-LCD



HS-C40A
HS-C40B
HS-C40E(6/9)

1 2 3 4 5 6 7 8

A

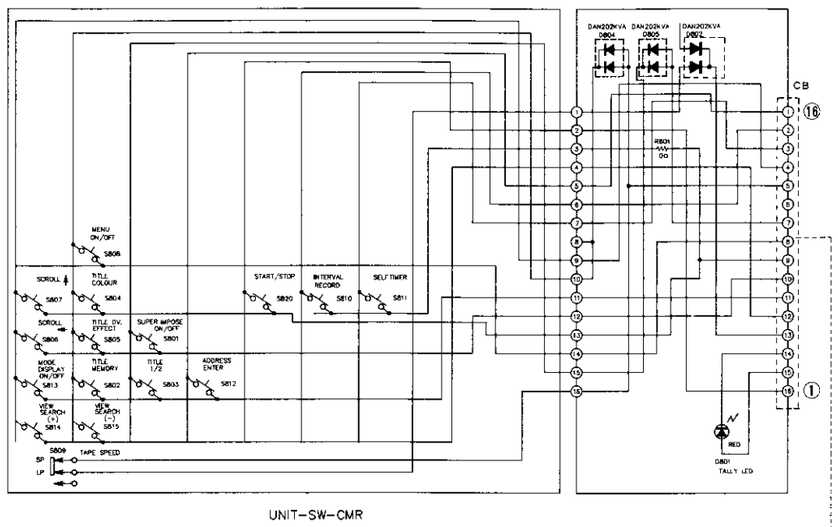
B

C

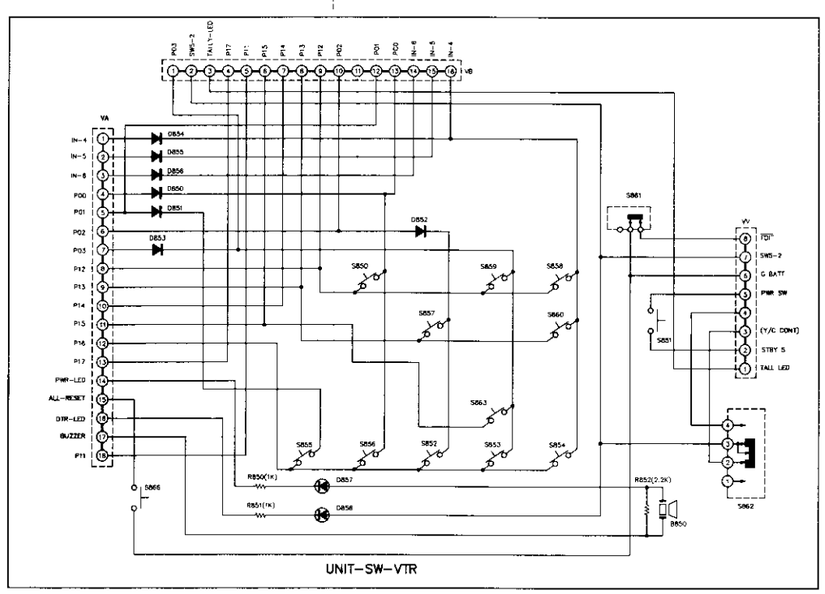
D

E

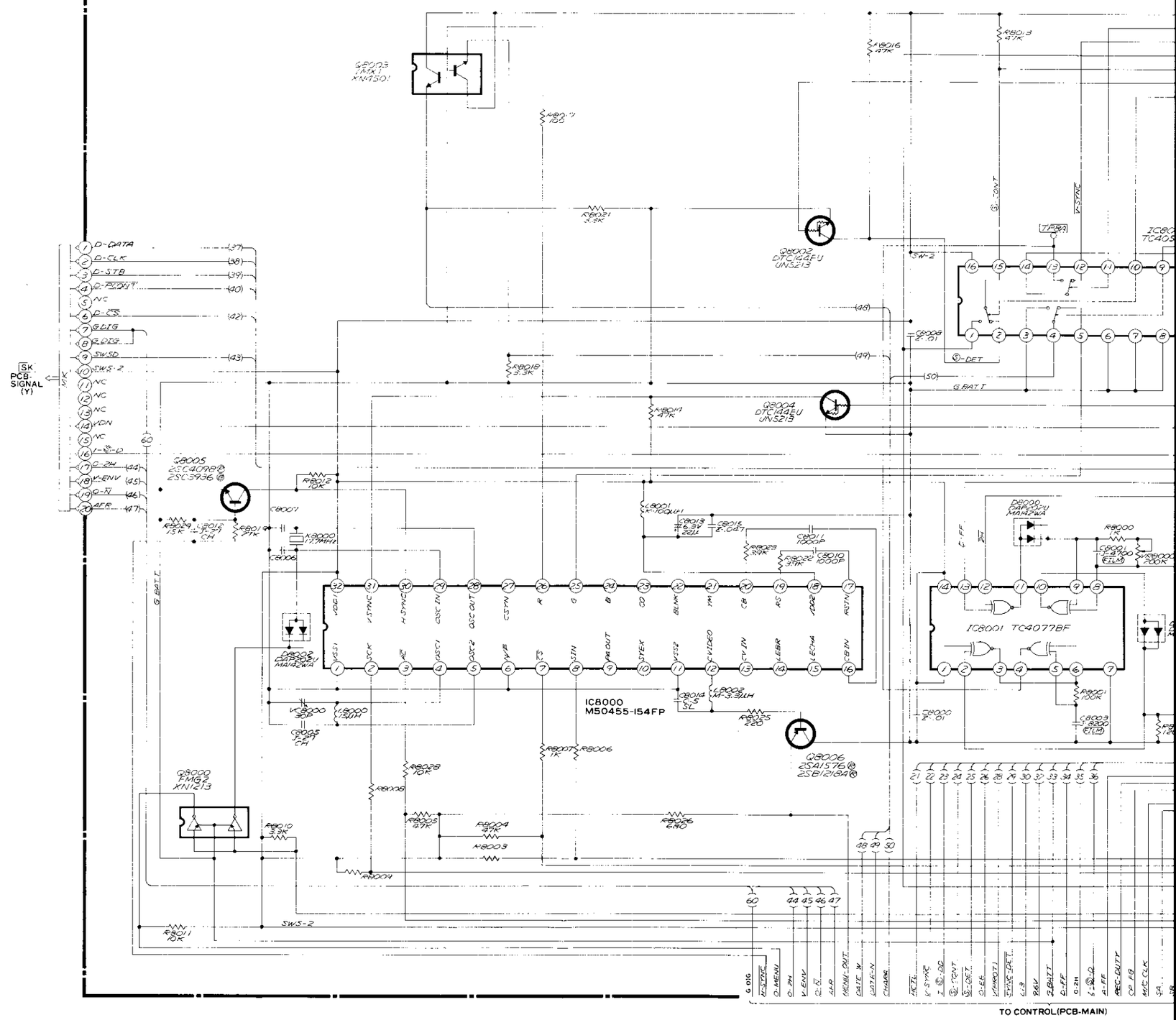
(OPERATION)⚠ PCB-MAIN



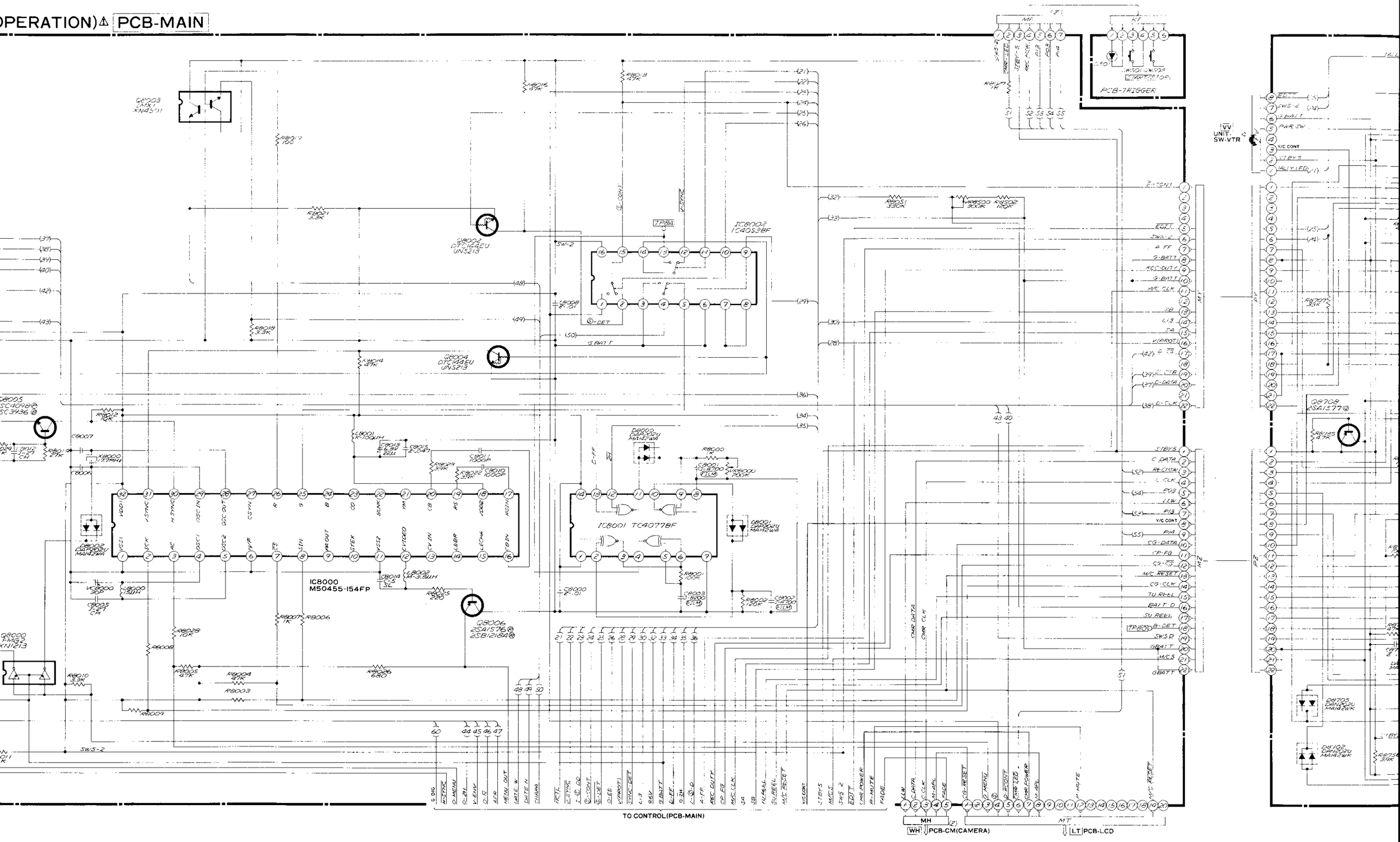
UNIT-SW-CMR



UNIT-SW-VTR

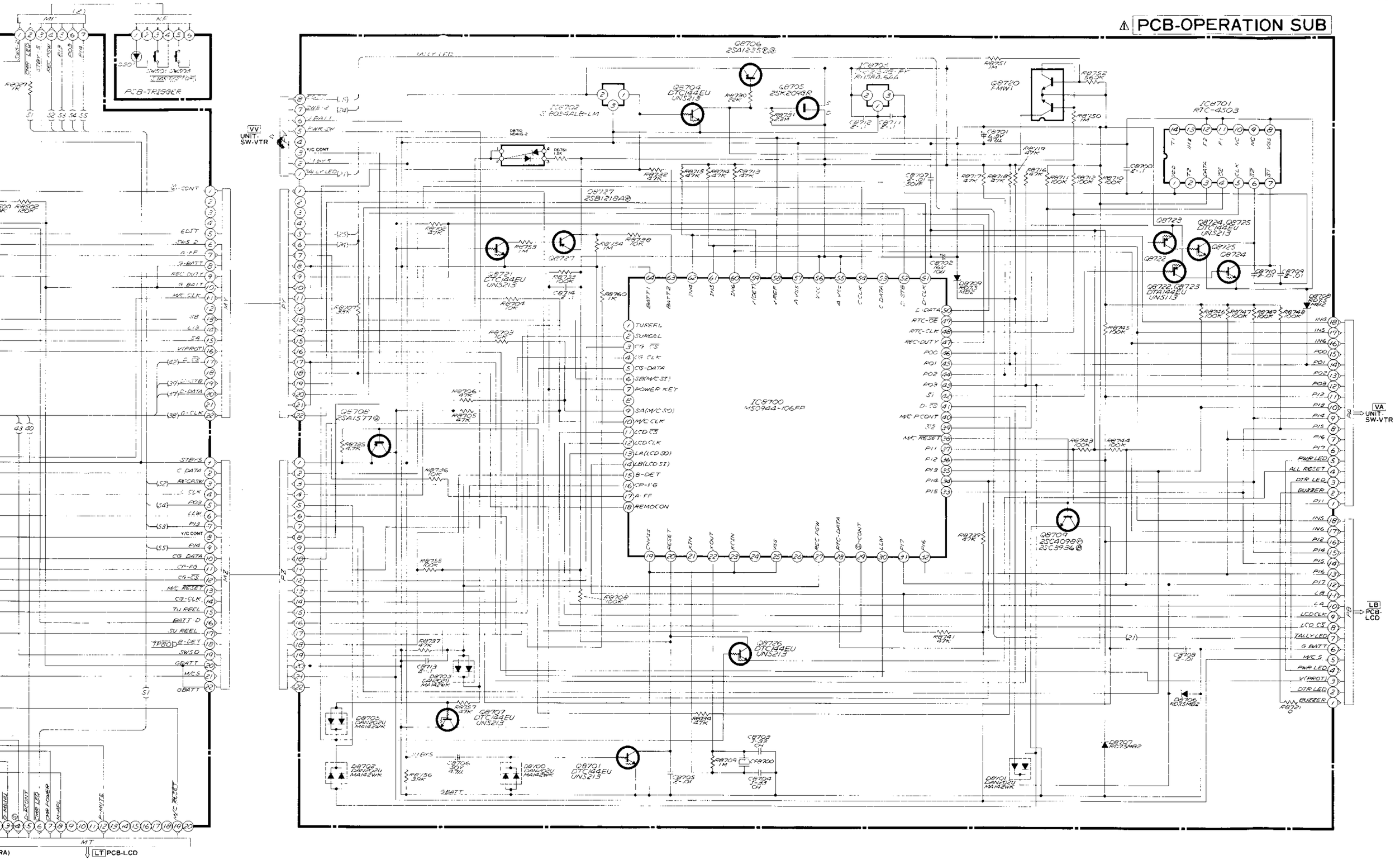


OPERATION) ⚠ PCB-MAIN

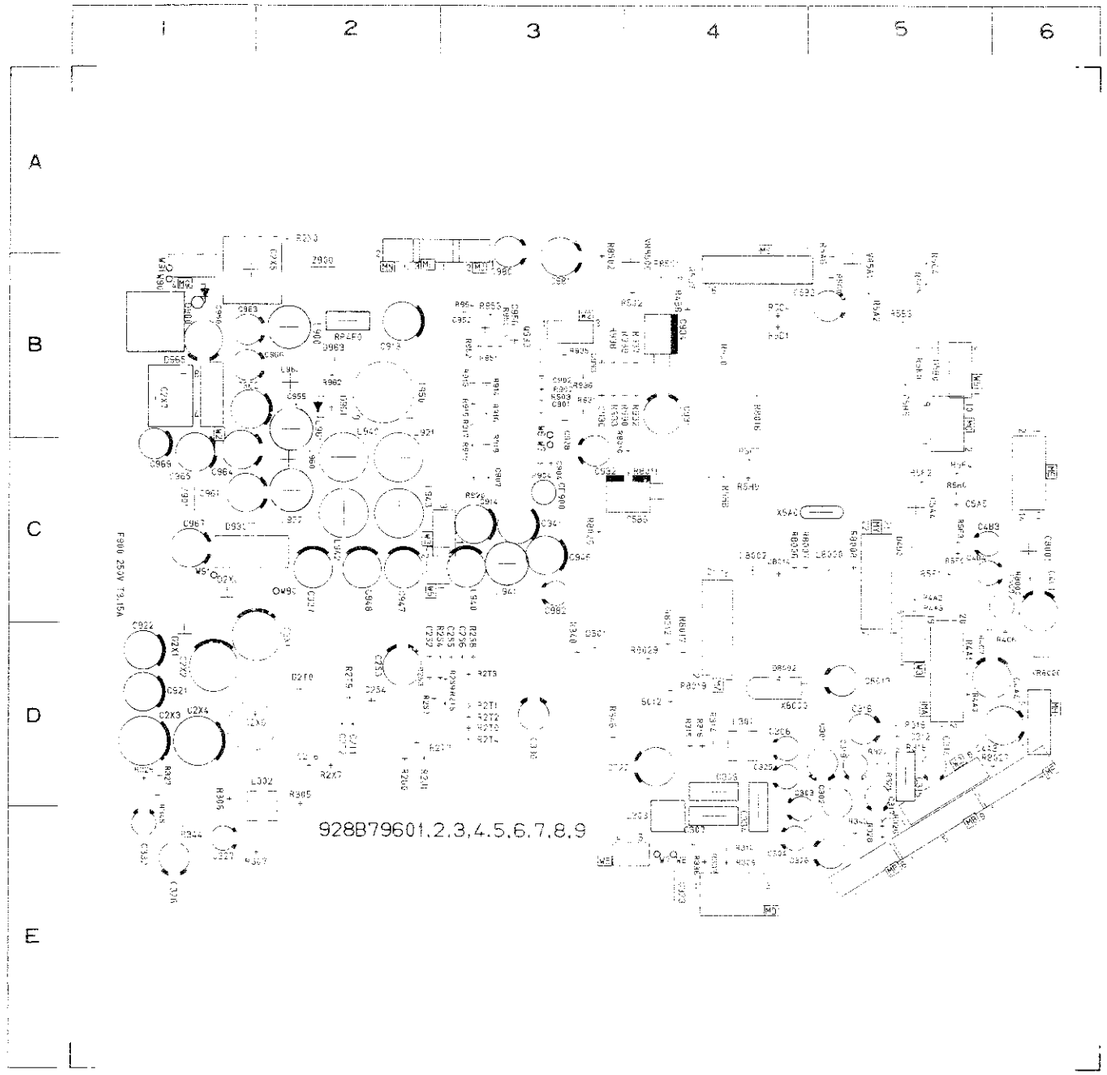


10 11 12 13 14 15 16 17 18

⚠ PCB-OPERATION SUB

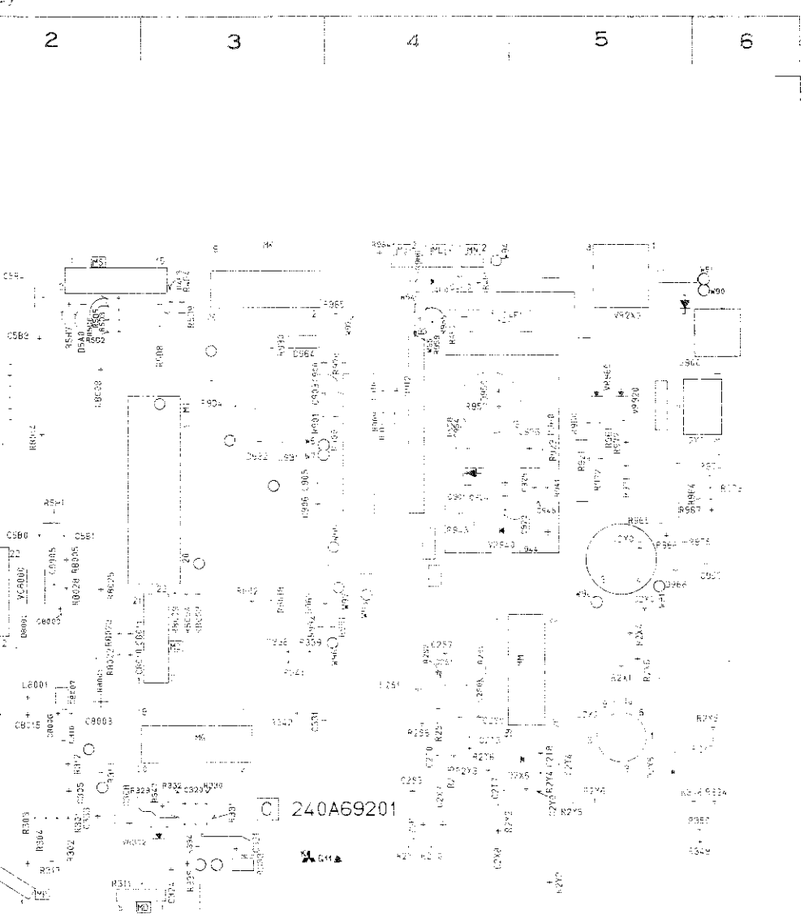


PCB-MAIN(C SIDE)

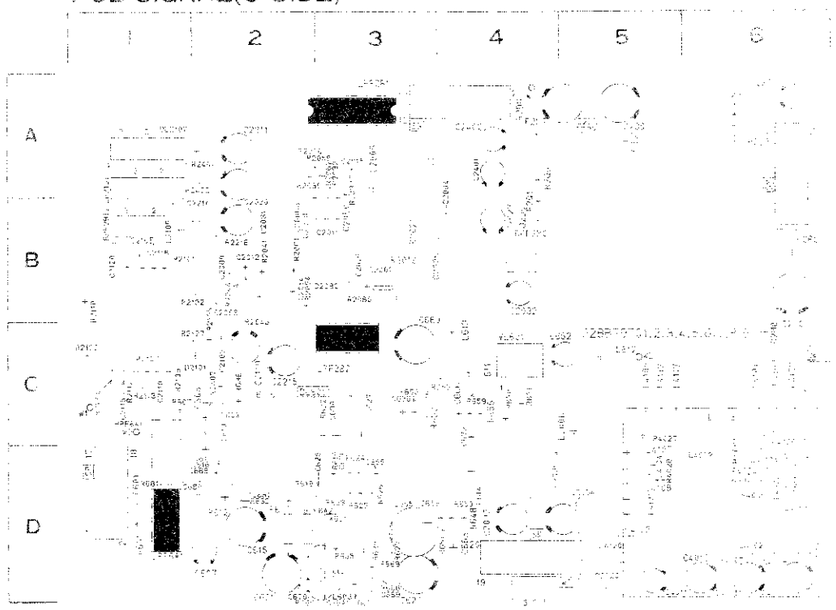


PCB-MAIN(S SIDE)

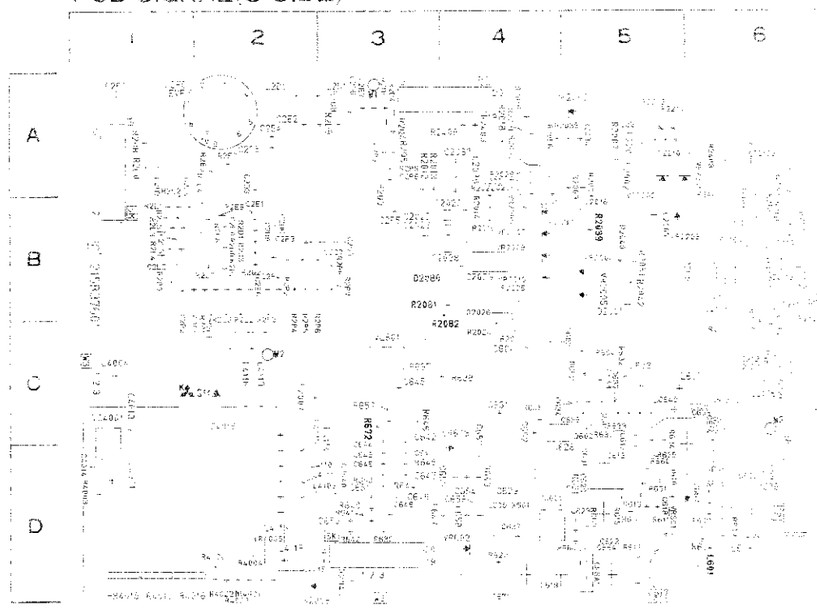
PCB-S



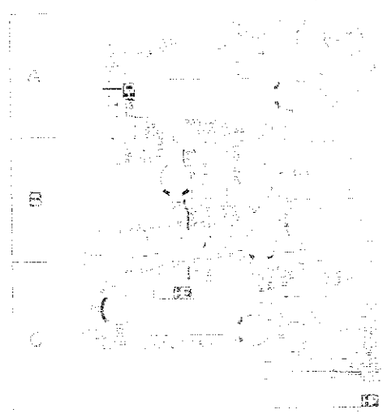
PCB-SIGNAL(C SIDE)



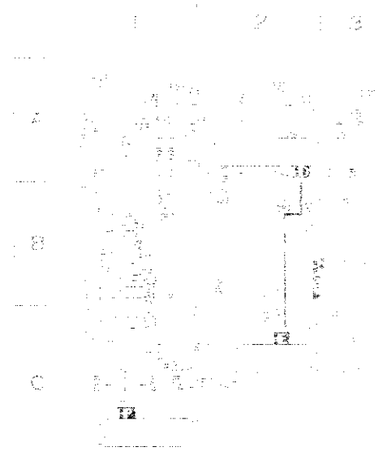
PCB-SIGNAL(S SIDE)



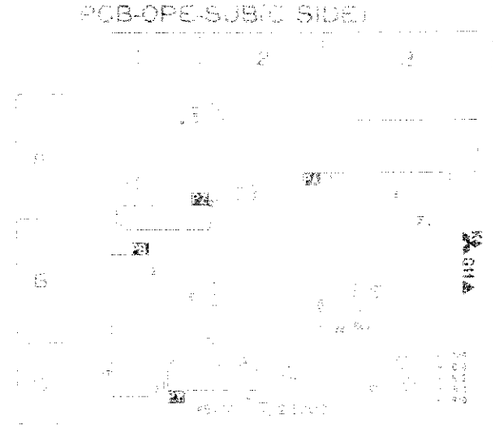
PCB-HEAD-AMP(C SIDE)



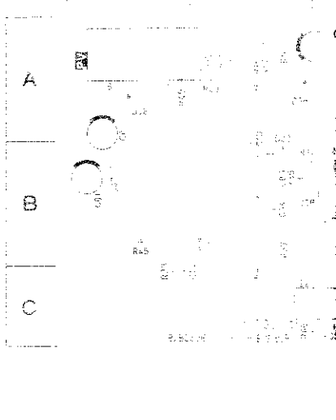
PCB-HEAD-AMP(S SIDE)



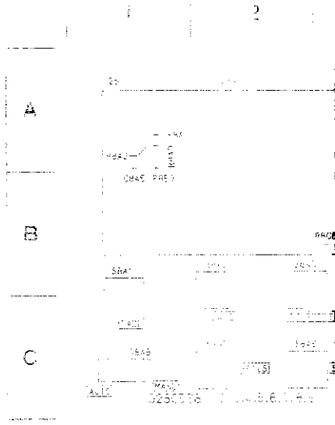
PCB-OPE-SUB(C SIDE)



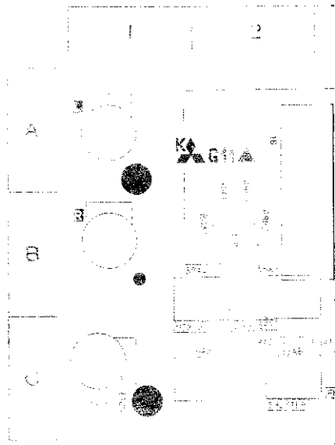
PCB-OPE-SUB(S SIDE)

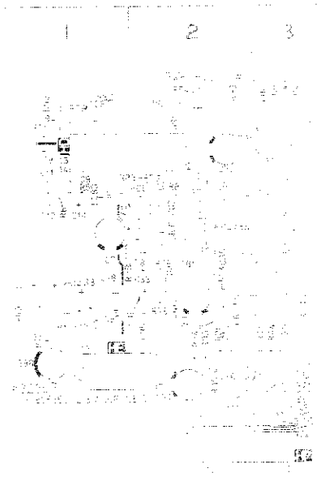


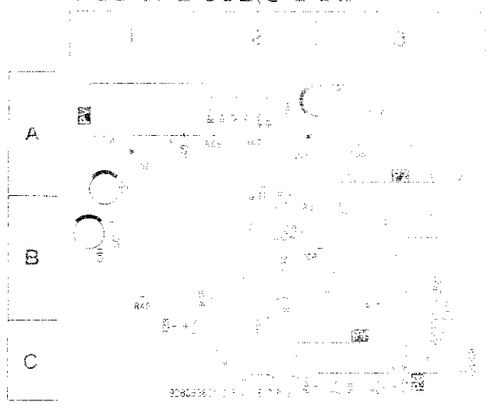
PCB-LCD(C SIDE)

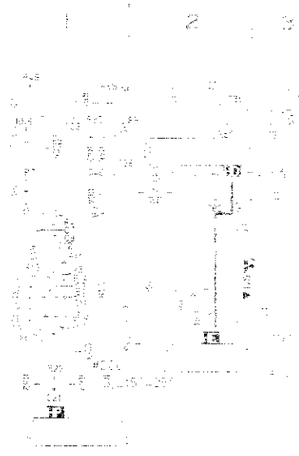


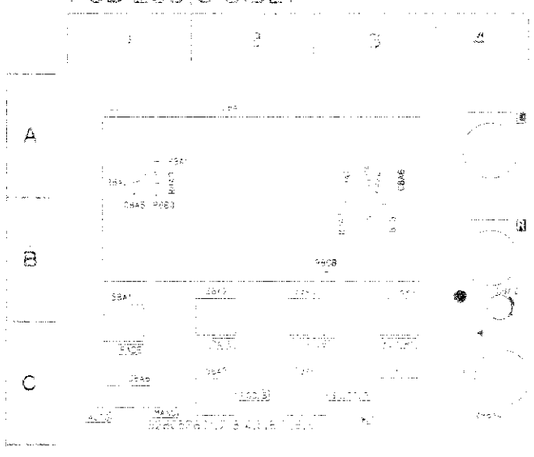
PCB-LCD(S SIDE)

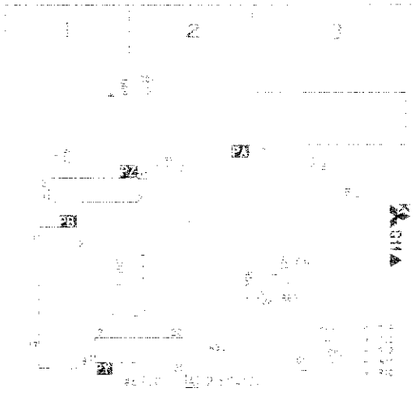


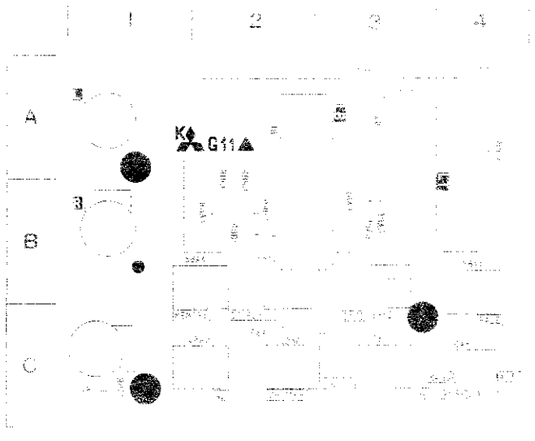












PCB-HEAD-AMP(C SIDE)

PCB-HEAD-AMP(S SIDE)

PCB-OPE-SUB(C SIDE)

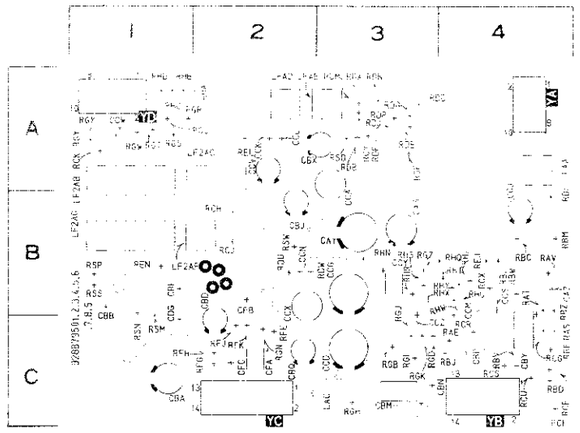
PCB-OPE-SUB(S SIDE)

PCB-LCD(C SIDE)

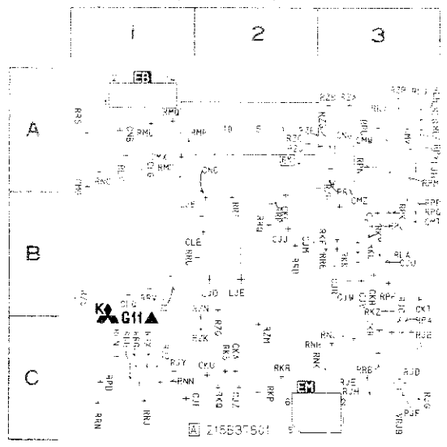
PCB-LCD(S SIDE)

HS-C40A
HS-C40B
HS-C40E(7/9)

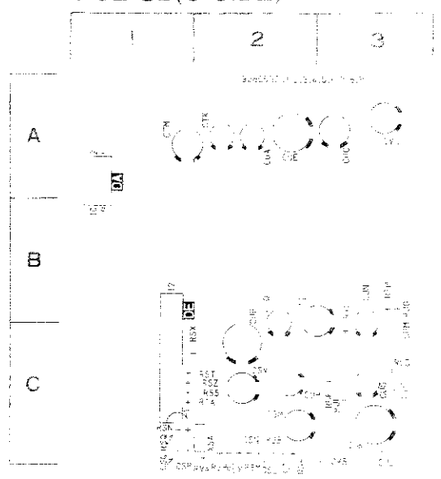
PCB-PC(C SIDE)



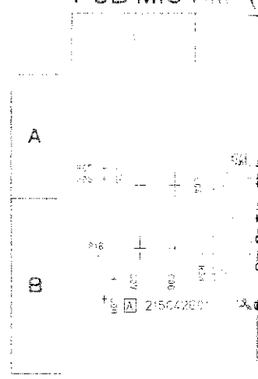
PCB-EC(S SIDE)



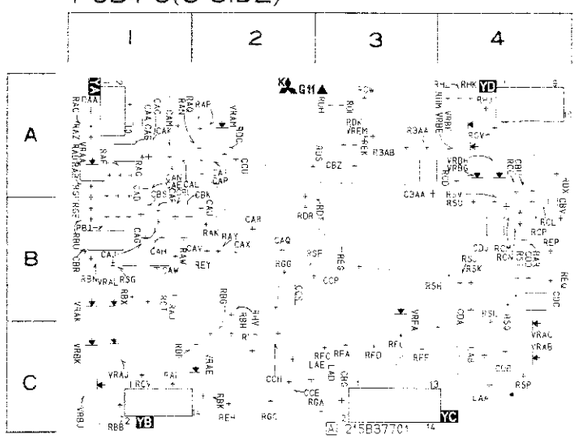
PCB-SD(C SIDE)



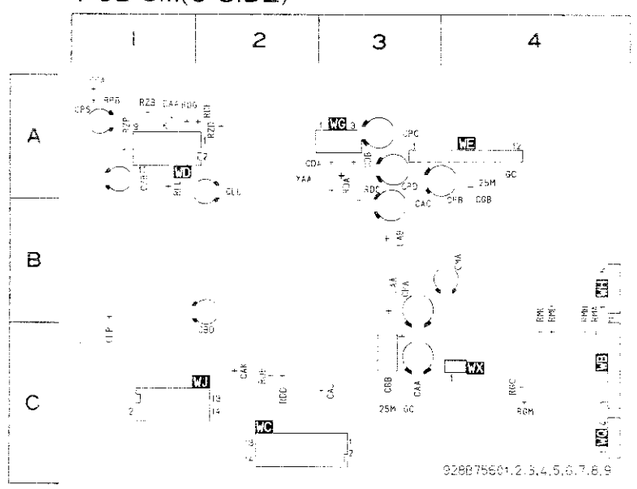
PCB-MIC-AMP(C SIDE)



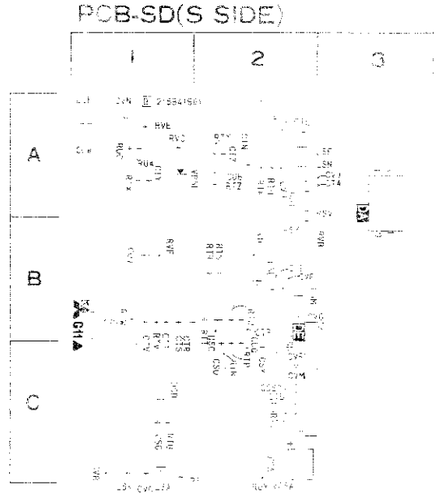
PCB-PC(S SIDE)



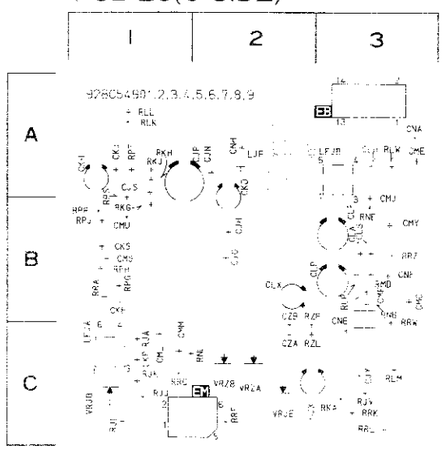
PCB-CM(C SIDE)



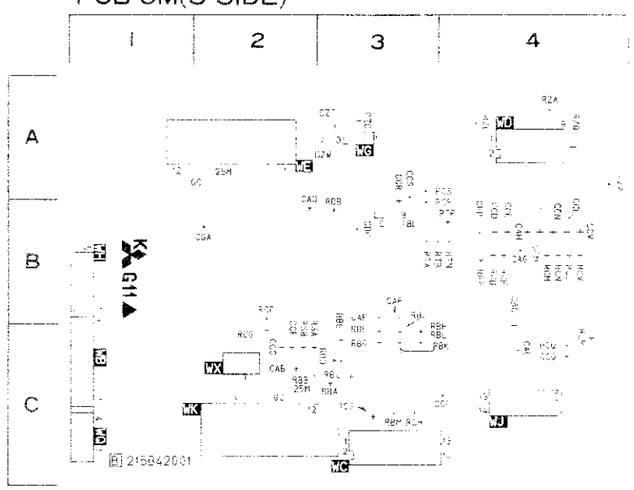
PCB-SD(S SIDE)



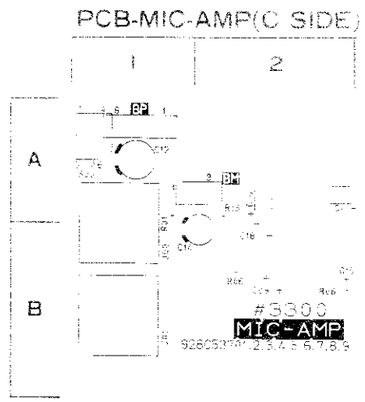
PCB-EC(C SIDE)

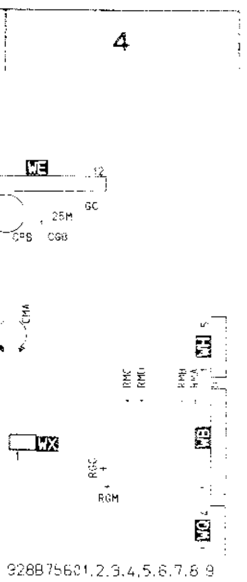


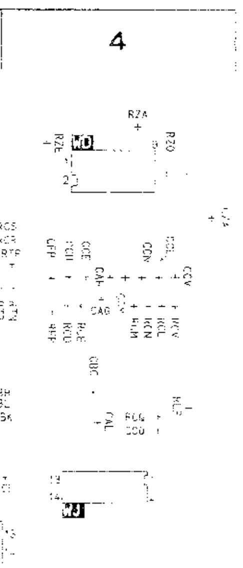
PCB-CM(S SIDE)



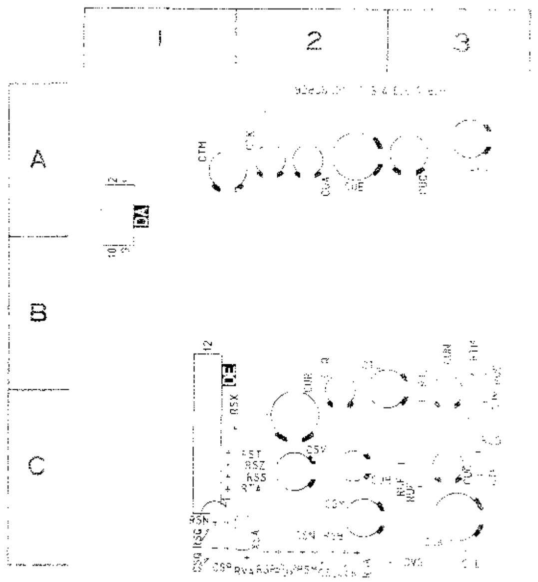
PCB-MIC-AMP(C SIDE)



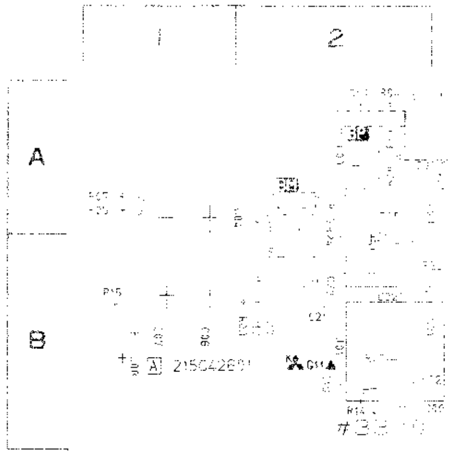




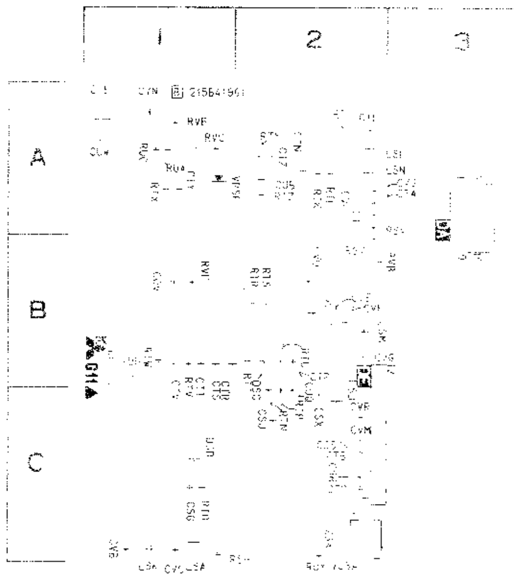
PCB-SD(C SIDE)



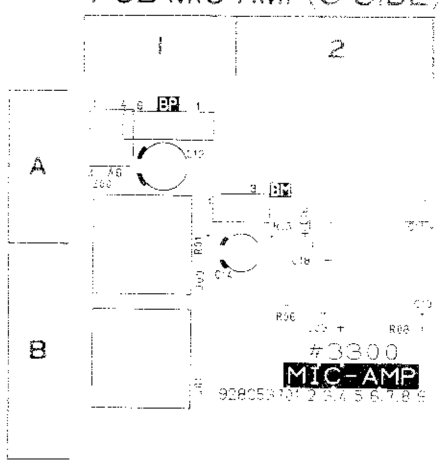
PCB-MIC-AMP(S SIDE)



PCB-SD(S SIDE)



PCB-MIC-AMP(C SIDE)



SYMBOL NO.	ADDRESS
PCB PC C SIDE	
IC2AB	A- 4
IC2AC	C- 4
IC2AD	C- 4
ICAF	C- 1
L2AC	C- 3
LF2AA	A- 4
LF2AB	A- 1
LF2AC	A- 2
LF2AD	A- 2
LF2AE	A- 2
LF2AF	B- 1
LF2AG	B- 1
Q2AA	B- 4
Q2AC	B- 4
Q2AD	B- 4
Q2AG	B- 2
Q2AJ	A- 3
Q2AN	A- 3
Q2GB	C- 3
Q2GE	B- 1
TPAA	A- 4
TPAB	B- 3
TPAC	C- 3
TPAD	A- 1
TPAE	B- 2
TPAF	A- 2
TPAG	B- 3
TPAJ	C- 1
TPAK	C- 1
TPAL	A- 2
TPAN	A- 4
TPAP	A- 3
TPAQ	C- 3
TPAR	A- 4
TPG	A- 4
PCB PC S SIDE	
D2AA	A- 1
IC2AA	C- 2
IC2AG	C- 1
IC2AJ	A- 2
IC2AL	A- 4
IC5FA	B- 3
IC5FB	B- 2
L2AA	C- 4
L2AB	C- 4
L2AD	C- 3
L2AE	C- [illegible]
Q2AE	C- 1
Q2AH	A- 4

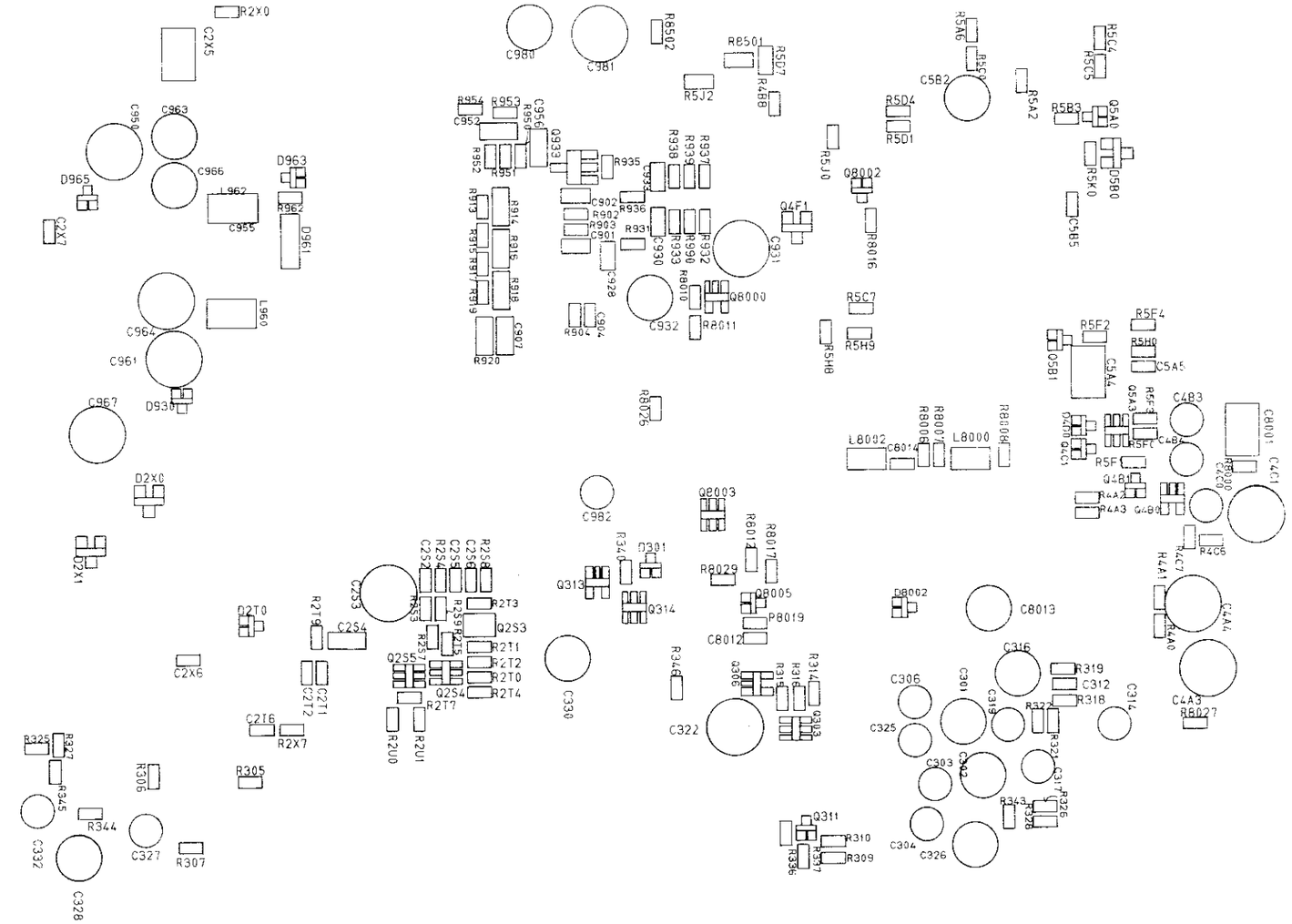
SYMBOL NO.	ADDRESS
[illegible]	A- 2
Q2AL	[illegible]
Q2AM	[illegible]
Q2AP	A- 1
Q2AQ	[illegible]
Q2AR	B- 4
Q2AW	B- 2
Q2AX	B- 2
Q2AY	B- 1
Q2AZ	B- [illegible]
Q2GA	[illegible] 2
Q2GC	C- 2
Q2GD	C- 1
Q2GF	B- 4
Q2GG	B- 4
Q3AA	A- 3
Q3AA	A- 2
TPAA	B- 2
TPAB	B- 3
TPAC	B- 1
TPAD	B- 3
TPAE	C- 3
TPAF	A- 2
TPAG	B- 3
TPAJ	B- 4
TPAK	C- 3
TPAL	A- 2
TPAN	A- 2
TPAP	A- [illegible]
TPAQ	[illegible]
TPAR	B- 2
[illegible]	A- [illegible]
VR2AA	A- 1
VR2AB	C- 4
VR2AC	C- 4
VR2AE	C- 2
VR2AJ	C- 1
VR2AK	B- 1
VR2AL	B- 1
VR2AM	A- 2
VR2BE	A- 4
VR2BF	A- 4
VR2BG	A- 4
VR2BH	A- 4
VR2BJ	C- 1
VR2BK	C- 1
VR5FA	B- 3
PCB EC C SIDE	
IC2JA	B- 2
IC2JC	C- 3
IC2JE	B- 2
IC2JH	B- 3
IC2JL	A- 1
IC2JF	A- 2

SYMBOL NO.	ADDRESS
LF2JA	[illegible]
LF2JB	A- 3
Q2JE	[illegible]
Q2KK	[illegible]
TPJA	B- 2
TPJB	A- 2
TPJC	A- 2
VR2JE	C- 2
VR2ZA	C- 2
VR2ZB	C- 2
VRJB	C- 1
PCB EC S SIDE	
IC2JB	B- 3
IC2JD	B- 1
IC2JK	A- 1
IC2JM	A- 1
L2JB	B- 1
L2JC	B- 2
L2JE	B- 2
L2JF	A- 2
Q2JA	[illegible]
Q2JC	[illegible]
Q2JK	[illegible]
Q2JL	[illegible]
Q2JW	A- 2
Q2JZ	[illegible]
Q2KA	[illegible]
Q2KB	C- [illegible]
Q2KC	B- 3
Q2KD	B- 3
Q2KE	A- 3
Q2KF	A- 3
Q2KG	A- 3
Q2KJ	A- 1
Q2KL	B- 1
Q2ZA	A- 3
Q2ZB	B- 2
Q2ZC	P- 2
Q2ZD	C- 2
Q2ZE	C- 2
TPJA	B- 2
TPJB	A- 2
TPJC	A- 2
VRJB	C- 3
PCB CM C SIDE	
D7AA	A- [illegible]
IC7AA	B- 2
IC7AB	B- 2

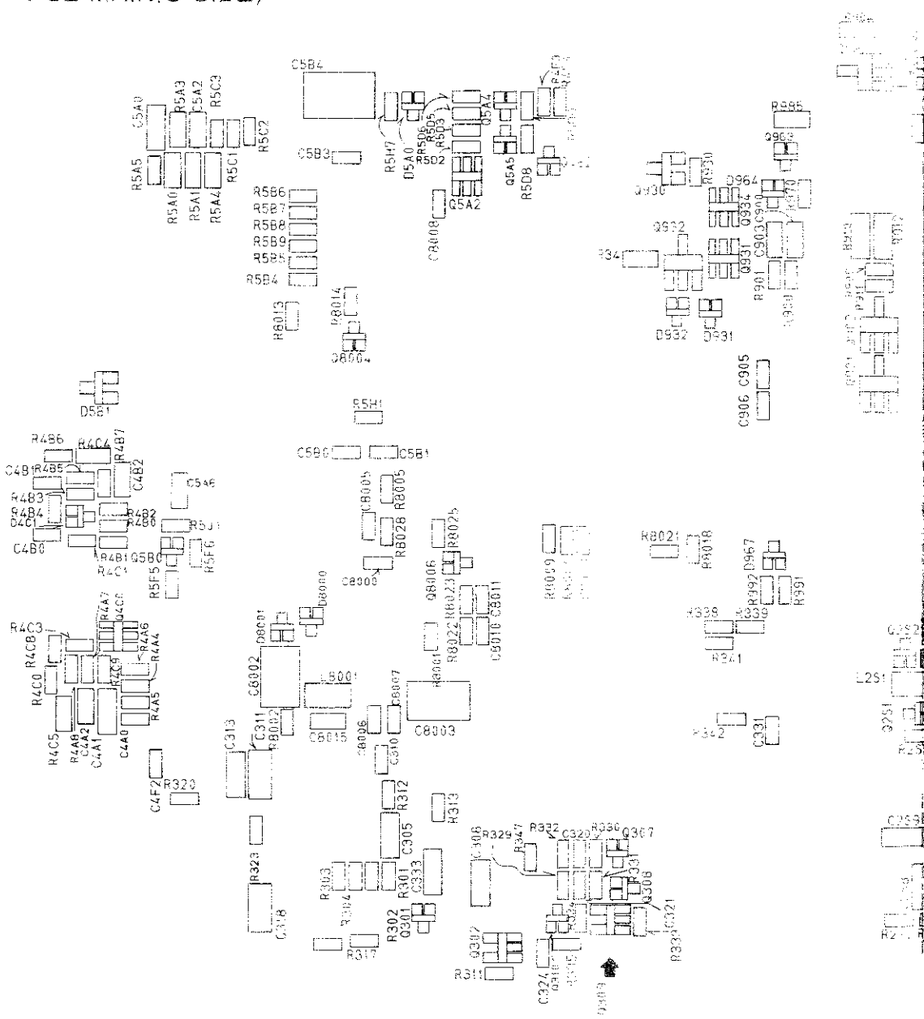
SYMBOL NO.	ADDRESS
IC7AC	B- 1
IC7BA	C- 1
IC7WB	C- [illegible]
L7AA	B- 3
L7AB	B- 3
Q7MA	C- 4
Q7NA	A- 1
TPA	B- 1
TPB	B- 1
TPC	B- 1
X7AA	A- 2
PCB CM S SIDE	
D7ZF	A- 3
D7ZW	A- 3
IC7AD	C- 3
IC7AE	C- 4
IC7AF	B- 4
IC7AR	B- 3
IC7ZC	A- 4
IC7ZM	A- 4
Q7BA	C- 3
Q7BC	C- 3
Q7BD	C- 3
Q7CA	C- 4
Q7PB	A- 4
TPA	B- 4
TPB	B- 4
PCB SD C SIDE	
ICSD	C- 2
ICSF	B- 2
ICSJ	A- 1
Q0SE	C- 3
TPSL	B- 2
XSA	C- 2
PCB SD S SIDE	
D0SC	B- 2
D0SD	C- 1
D0SE	A- 1
IC0SA	C- 2
IC0SE	C- [illegible]
L0SA	C- 1
L0SD	C- 1

SYMBOL NO.	ADDRESS
L0SF	A- 3
L0SK	C- 1
L0SL	B- 2
L0SM	B- 2
L0SN	A- 3
Q0SA	A- 2
Q0SB	B- 2
Q0SC	A- 2
Q0SD	A- 1
Q0SF	C- 1
Q0SL	A- 1
Q0SM	A- 1
[illegible]	C- 3
VR0SA	C- 2
VR0SE	B- 2
PCB MIC – AMP C SIDE	
IC3300	A- 2
PCB MIC – AMP S SIDE	
L3300	A- 2
L3301	B- 2

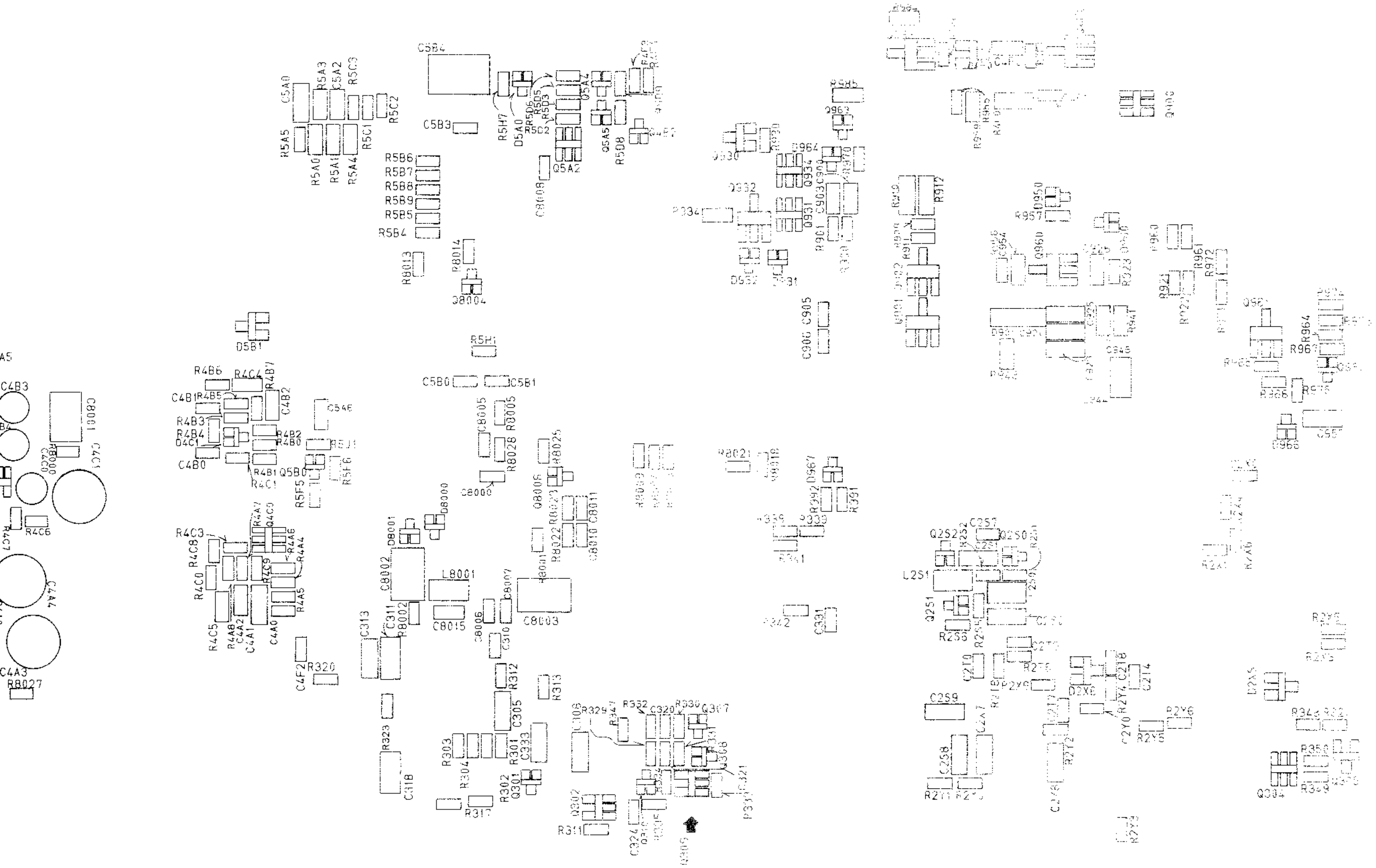
PCB-MAIN(C SIDE)



PCB-MAIN(S SIDE)



PCB-MAIN(S SIDE)



PARTS No	DESCRIPTION	IMPRINTING
	TRANSISTORS	
[illegible]	2SA1812 [illegible]	[illegible]
260P849020	IMZ1 [illegible]	Z1
260P856010	DTA144EU	16
260P844020	FMW1 [illegible]	W1.5R
260P845020	IMX1 [illegible]	X1.5H
260P851010	IMD2 [illegible]	D2
260P858010	FMA2 [illegible]	A2
260P867030	2SD1819 [illegible]	YR
260P857010	DTC144EU	26
260P852010	FMG2 [illegible]	G2
260P861020	2SA1611 [illegible]	HQ.DR
260P482010	2SB795 [illegible]	DK
260P808010	DTC114EU	24
260P855010	2SD1819A [illegible]	ZQ
260P850070	2SB1218A [illegible]	9Q
260P853010	DTA114EU	14
260P854010	2SC4098 [illegible]	4P
260P847010	2SB1114 [illegible]	ZL
260P810090	2SA1235F G	MF MG
260P845010	IMX1	X1
260P880010	2SD999 [illegible]	CK
260P868010	2SC3756 [illegible]	CK
260P835010	2SC4081 − Q	8Q
	DIODES	
264P814030	1A142 [illegible]	MD
264P816040	RD11ME2	112
264P825010	DAN202U	N MV
264P830020	DA204U	K
[illegible]	RD7.5M52	752
[illegible]	DAP202U	P MG
[illegible]	SFPB64	S64
[illegible]	STPB64	354
	COILS	
325024[illegible]	100 μH [illegible]	101K
325014[illegible]	15 μH [illegible]	150
325024[illegible]	33 μH [illegible]	3R3
325013[illegible]	100 μH [illegible]	101K
	RESISTORS	
[illegible]	1/20W 100 Ω − J	101
[illegible]	1/20W [illegible]	[illegible]
[illegible]	1/20W [illegible]	183
[illegible]	1/20W [illegible]	333
[illegible]	1/20W 22 Ω − J	22
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	2R2
[illegible]	1/20W [illegible]	153
[illegible]	[illegible]	47[illegible]

PARTS No	DESCRIPTION	IMPRINTING
103P503020	1/20W 3.9K Ω − J	392
103P501020	1/20W 82 Ω − J	820
103P509090	1/20W 75 Ω − J	750
103P501080	1/20W 270 Ω − J	271
103P506040	1/20W 1.8M Ω − K	186
103P504010	1/20W 22K Ω − J	223
103P503060	1/20W 8.2K Ω − J	822
103P502090	1/20W 2.2K Ω − J	222
103P503010	1/20W 3.3K Ω − J	332
103P504090	1/20W 100K Ω − J	104
103P503030	1/20W 4.7K Ω − J	472
103P503080	1/20W 12K Ω − J	123
103P503070	1/20W 10K Ω − J	103
103P502030	1/20W 680 Ω − J	681
103P501070	1/20W 220 Ω − J	221
103P503090	1/20W 15K Ω − J	153
103P500010	1/20W 10 Ω − J	100
103P501040	1/20W 120 Ω − J	121
103P505000	1/20W 120K Ω − J	124
103P502020	1/20W 560 Ω − J	561
103P501010	1/20W 68 Ω − J	680
103P508080	1/20W 4.7 Ω − K	4R7
103P509050	0 Ω RM1608	00
103P504070	1/20W 68K Ω − J	683
103P505040	1/20W 270K Ω − J	274
103P505030	1/20W 220K Ω − J	224
103P504060	1/16W 56K Ω − J	563
103P505050	1/20W 330K Ω − J	334
103P503040	1/16W 5.6K Ω − J	562
103P505010	1/20W 150K Ω − J	154
103P504020	1/20W 27K Ω − J	273
103P474090	1/10W10K − F	103
103P352070	1/8W1.5K Ω − J	152
103P476050	1/10W47K − F	473
103P503000	1/20W 2.7K Ω − J	272
103P476010	1/10W56K − F	563
103P505070	1/20W 470K Ω − J	474
103P503050	1/20W 6.8K Ω − J	682
103P504050	1/20W 47K Ω − J	473
103P504080	1/20W 82K Ω − J	823
103P505020	1/20W 180K Ω − J	184
103P401050	1/10W150 Ω − J	151
103P504080	1/20W 82K Ω − J	823
103P506010	1/20W 1M Ω − J	106
103P401040	1/10W120 Ω − J	121
103P405050	1/10W330K Ω − J	334
103P502000	1/20W 390 Ω − J	391
103P352040	1/8W 820 Ω − J	821
103P502070	1/20W 1.5K Ω − J	152
103P401030	1/10W100 Ω − J	101
103P501090	1/20W 330 Ω − J	331
103P502060	1/20W 1.2K Ω − J	122
103P475050	1/10W18K [illegible]	183
103P409050	1/10W0 Ω	00
103P505090	1/20W 680K Ω − J	684

PARTS No
103P479010
141P136030
141P143060
181P502060
154P342090
154P344030
141P142010
181P500090
181P510010
181P506010
181P502030
141P136010
154P327060
141P140010
189P125010
154P355060
154P327000
181P500010
189P126030
189P096020
154P354040
181P506030
181P500030
141P141080
141P137090
141P135060
141P140090
141P132020
181P510010
154P324040
154P341070
141P140030
154P342010
154P340070
154P340080
154P350070
141P134010
141P137040
141P140050
154P343030
154P355040
141P131080
181P502060
141P132090
154P343070
181P503090
181P500040
181P502040

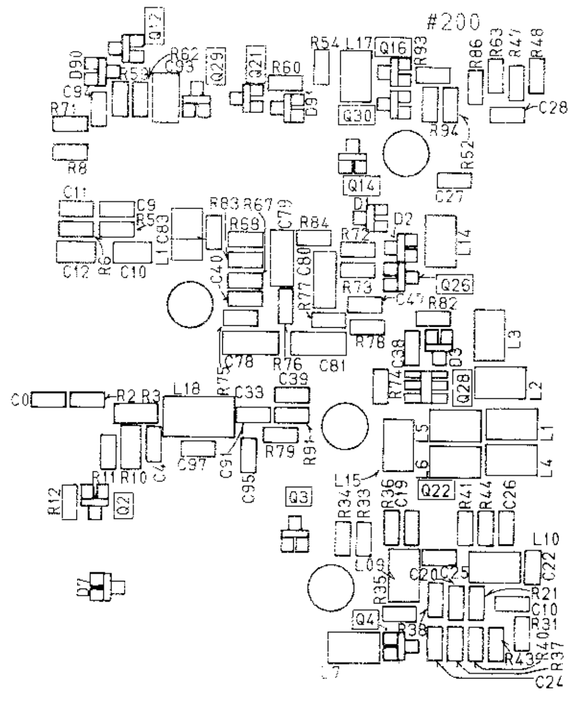
…E MAIN)

…SCRIPTION	IMPRINTING
…NSISTORS	
…R	FR
…XN4601	Z1
…4EU	16
…XN1501	W1.5R
…XN4501	X1.5P
…XN4312	D2
…XN111S	A2
…S – R	YR
…EU	28
…XN1213	G2
…77A – Q	HQ.DP
…S – DK	DK
…4K	24
…72 – Q	ZQ
…AA – Q	5Q
…45U	14
…55 – P	AP
…4 – ZL	ZL
…SER,S	M1 MS
	A1
… – CK	CK
…88 – CK	CK
…81 – Q	BQ
…IODES	
…A	MO
…E2	112
…AL	N.Mu
…	K
…S2	752
…2U	P.MO
…	864
…	854
…COILS	
… – K	101K
…	150
…	3R3
… – K	101K
…SISTORS	
…100 Ω – J	101
…1K Ω – J	102
…18K Ω – J	183
…33K Ω	333
…820 Ω – J	821
…2.2K Ω – J	222
…2.7K – K	272
…18K Ω – J	183
…470 Ω – J	471

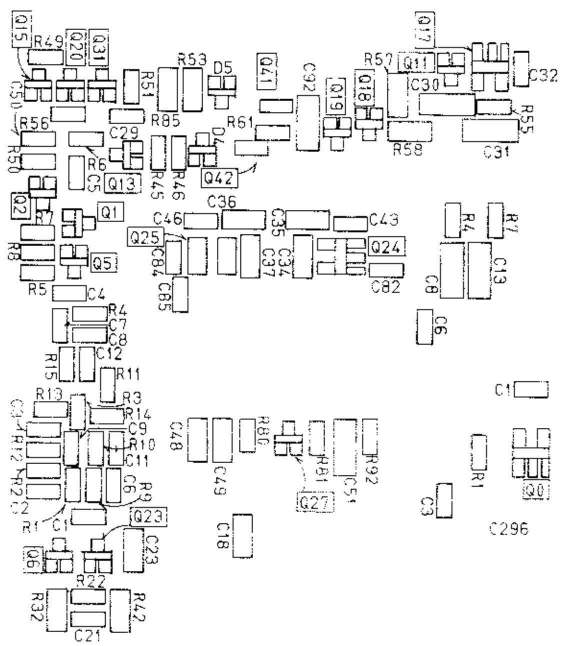
PARTS No.	DESCRIPTION	IMPRINTING
103P503020	1/20W 3.9K Ω – J	392
103P501020	1/20W 82 Ω – J	820
103P509090	1/20W 75 Ω – J	750
103P501080	1/20W 270 Ω – J	271
103P506040	1/20W 1.8M Ω – K	185
103P504010	1/20W 22K Ω – J	223
103P503060	1/20W 8.2K Ω – J	822
103P502090	1/20W 2.2K Ω – J	222
103P503010	1/20W 3.3K Ω – J	332
103P504090	1/20W 100K Ω – J	104
103P503030	1/20W 4.7K Ω – J	472
103P503080	1/20W 12K Ω – J	123
103P503070	1/20W 10K Ω – J	103
103P502030	1/20W 680 Ω – J	681
103P501070	1/20W 220 Ω – J	221
103P503090	1/20W 15K Ω – J	153
103P500010	1/20W 10 Ω – J	100
103P501040	1/20W 120 Ω – J	121
103P505000	1/20W 120K Ω – J	124
103P502020	1/20W 560 Ω – J	561
103P501010	1/20W 68 Ω – J	680
103P508080	1/20W 4.7 Ω – K	4R7
103P509050	0 Ω RM1608	00
103P504070	1/20W 68K Ω – J	683
103P505040	1/20W 270K Ω – J	274
103P505030	1/20W 220K Ω – J	224
103P504060	1/16W 56K Ω – J	563
103P505050	1/20W 330K Ω – J	334
103P503040	1/16W 5.6K Ω – J	562
103P505010	1/20W 150K Ω – J	154
103P504020	1/20W 27K Ω – J	273
103P474030	1/10W10K – F	103
103P352070	1/8W 1.5K Ω – J	152
103P476050	1/10W47K – F	473
103P503000	1/20W 2.7K Ω – J	272
103P476070	1/10W56K – F	563
103P505070	1/20W 470K Ω – J	474
103P503050	1/20W 6.8K Ω – J	682
103P504050	1/20W 47K Ω – J	473
103P504080	1/20W 82K Ω – J	823
103P505020	1/20W 180K Ω – J	184
103P401050	1/10W150 Ω – J	151
103P504080	1/20W 82K Ω – J	823
103P506010	1/20W 1M Ω – J	106
103P401040	1/10W120 Ω – J	121
103P405050	1/10W330K Ω – J	334
103P502000	1/20W 390 Ω – J	391
103P352040	1/8W 820 Ω – J	821
103P502070	1/20W 1.5K Ω – J	152
103P401030	1/10W100 Ω – J	101
103P501090	1/20W 330 Ω – J	331
103P502060	1/20W 1.2K Ω	122
103P475050	1/10W18K – F	183
103P409090	1/10W0 Ω	0L
103P506090	1/20W 680K Ω – J	684

PARTS No.	DESCRIPTION	IMPRINTING
103P479010	1/10W560K – F	564
CAPACITORS		
141P136030	F16V1 μ F – Z	A5
141P143080	F50V 0.01 μ F – Z	A4
181P502060	16V47 μ F – M	47 μ F 16V
154P342090	CH50V 56P – J	– – –
154P344030	CH50V 220P – J	– – –
141P142010	B25V 0.01 μ F – K	
181P600080	04W10V 33 μ F – M	33 μ F 10V
181P510010	04W6.3V22 μ F – M	22 μ F 6V
181P506010	50V1 μ F – M	1 μ F 50V
181P502030	16V10 μ F – M	10 μ F 16V
141P136010	F25V 0.47 μ F – Z	54
154P327060	CH50V 4700PJ	35
141P140010	B50V 220P – K	
189P125010	25V	334
154P355060	SL25V 680P – J	– – –
154P327090	SL50V 2700PJ	L3
181P500010	6.3V22 – μ F – M	22 μ F 6V
189P126030	35V0.22M	224
189P096020	100V 3300P – J	P332 100
154P354040	SL50V 220P – J	
181P506030	04W50V3.3 μ F – M	3.3 μ F 50V
181P500030	04W6.3V47 μ F – M	47 μ F 6V
141P141080	B50V 5600P – K	
141P137090	B25V0.056M	J4
141P135080	F25V0.1 μ F – Z	A5
141P140090	B50V 1000P – K	– – –
141P132030	B50V0.015M	E1
181P518010	04W 50V 1MSP	1 μ F 50V
154P324040	SL50V220P – J	J2
154P341070	CH50V 18P – J	– – –
141P140030	B50V 330P – K	– – –
154P342010	CH50V 27P – J	
154P340070	CH50V 6P – C	–
154P340090	CH50V 1P – C	
154P360070	SL50V 5P – C	– – –
141P134010	F50V0.047M	S4
141P137040	B25V0.022M	J2
141P140060	B50V 470P – K	
154P343030	CH50V 82P – J	
154P355040	SL25V 560P – J	– – –
141P131080	B50V5600P – K	L8
181P502060	16V47 μ F – M	47 μ F 16V
141P132090	B50V0.047M	S4
154P343070	CH50V 120P – J	
181P503090	25V33 μ F – M	33 μ F 25V
181P500040	6.3V100 μ F – M	100 μ F 6V
181P502040	04W16V 22 μ F – M	22 μ F 16V

PCB-HEAD-AMP(C SIDE)



PCB-HEAD-AMP(S SIDE)



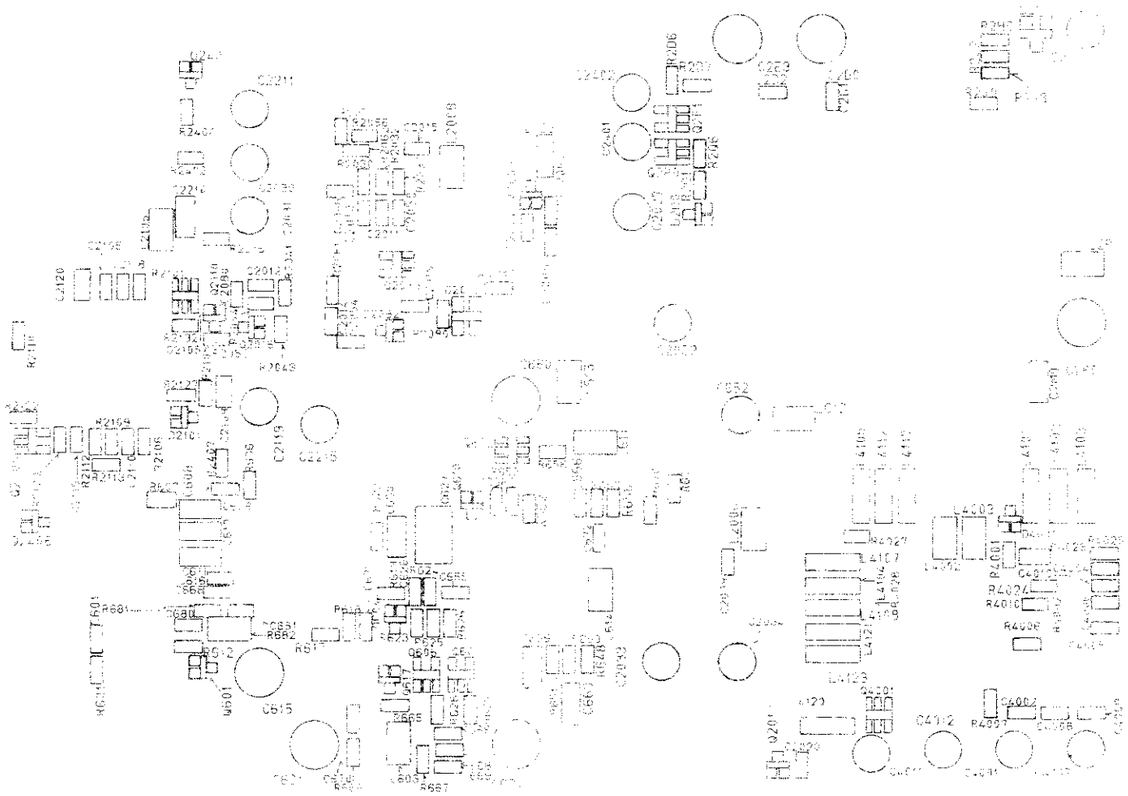
CHIP PARTS LIST (PCB HEAD – AMP)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P854020	2SC4098 – P	AP
260P857010	DTC144EU	26
260P861050	2SA1577A – Q	HQ
260P859050	2SA1576 – R	FR
260P856010	DTA144EU	16
260P853010	FMA2 (XN1113	A2
260P855020	2SC4081 – R	BR
260P859020	2SA1576 – R	FR
260P844020	FMW1 (XN1501	W1.5P
260P851010	IMD2 (XN4312	D2
DIODE		
264P828010	DAN202U	N.Mu
COILS		
325C243000	270 μ H – K	271
325C142050	100 μ H – K	101K
325C141090	33 μ H – K	330K
325C141030	10 μ H – K	100K
325C242080	180 μ H – K	181
325C242050	100 μ H – K	101
325C141040	12 μ H – K	120K
325C103040	560 μ H – K	561
RESISTORS		
103P501090	1/20W 330 Ω – J	331
103P501050	1/20W 150 Ω – J	151
103P509050	0 Ω RM1608	00
103P504030	1/20W 33K Ω – J	333
103P503060	1/20W 8.2K Ω – J	822
103P504020	1/20W 27K Ω – J	273
103P503070	1/20W 10K Ω – J	103
103P502050	1/20W 1K Ω – J	102
103P502030	1/16W 680 Ω – J	681
103P502010	1/20W 470 Ω – J	471
103P502060	1/16W 1.2K Ω – J	122
103P502020	1/16W 560 Ω – J	561
103P501030	1/20W 100 Ω – J	101
103P501000	1/20W 56 Ω – J	560
103P401040	1/10W 120 Ω – J	121
103P503030	1/20W 4.7K Ω – J	472
103P503020	1/20W 3.9K Ω – J	392
103P502040	1/20W 820 Ω – J	821
103P502090	1/20W 2.2K Ω – J	222
103P503050	1/20W 6.8K Ω – J	682
103P502080	1/20W 2.7K Ω – J	272
103P503000	1/20W 2.7K Ω – J	272
103P504010	1/20W 22K Ω – J	223
103P501070	1/20W 220 Ω – J	221
103P402050	1/10W1K Ω – J	102

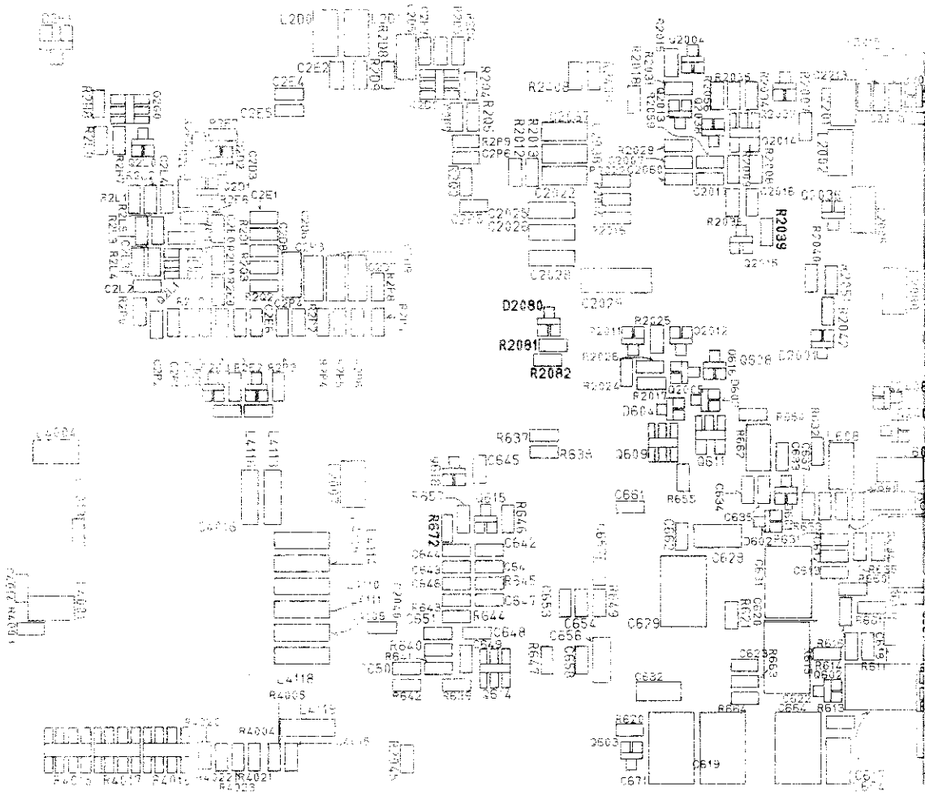
PARTS No.	DESCRIPTION	IMPRINTING
103P502070	1/20W 1.5K Ω – J	152
103P500010	1/20W 10 Ω – J	100
103P504090	1/20W 100K Ω – J	104
103P409050	0 Ω RM1608	00
CAPACITORS		
141P143080	F50V 0.01 μ F – Z	– –
154P355060	SL25V 680P – J	
154P354000	SL50V 150P – J	– – –
154P352060	SL50V 39P – J	– – –
154P354040	SL50V 220P – J	
154P354020	SL50V 180P – J	– – –
154P353060	SL50V 100P – J	– – –
154P351010	SL50V 9P – C	– – –
154P353000	SL50V 56P – J	– – –
154P354080	SL50V 330P – J	
154P352000	SL50V 22P – J	– – –
141P135080	F25V0.1 μ F – Z	A5
154P353040	SL50V 82P – J	– –
154P352020	SL50V 27P – J	
141P136030	F16V1 μ F – Z	– – –
141P140090	B50V 1000P – K	– – –
181P502040	04W16V 22 μ F – M	22 μ F 16V
181P500030	04W6.3V47 μ F – M	47 μ F 6V
154P352080	SL50V 47P – J	–

HS-C40A
HS-C40B
HS-C40E(8/9)

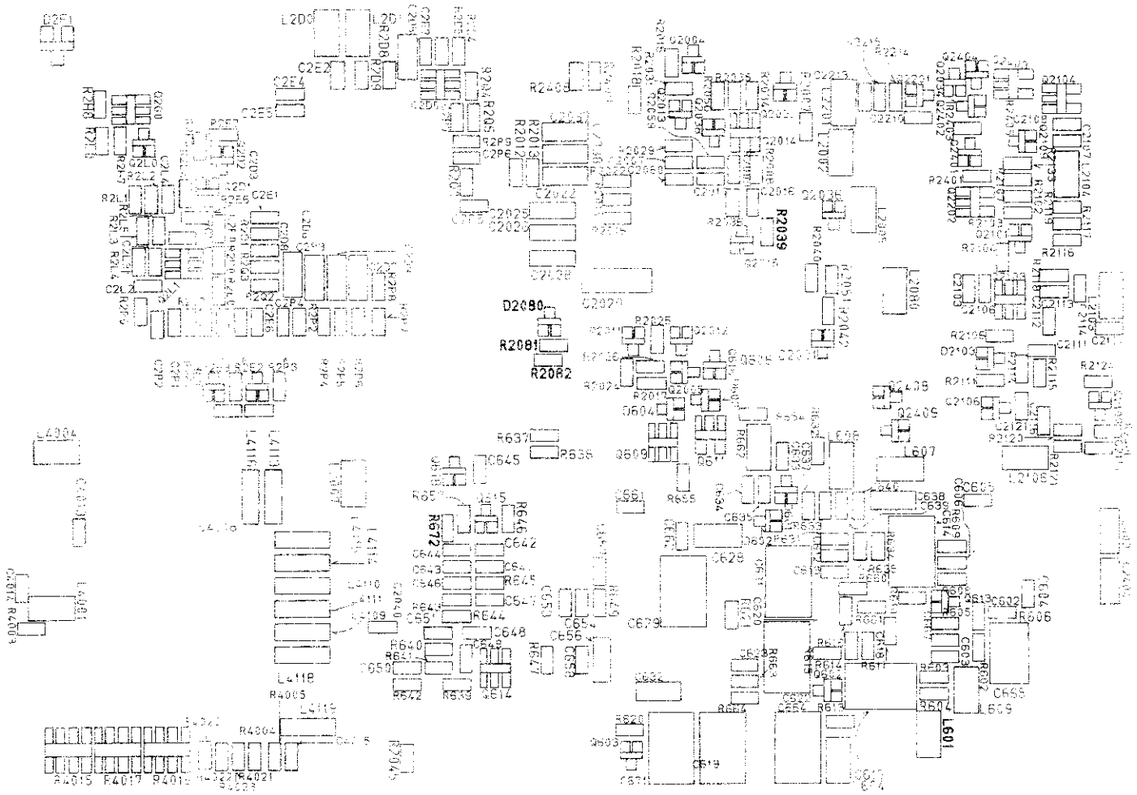
PCB-SIGNAL(C SIDE)



PCB-SIGNAL(S SIDE)



PCB-SIGNAL (S SIDE)



CHIP PARTS LIST (PCB SIGNAL)

PARTS No	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P846020	[illegible] XN4501	[illegible]
260P858020	2SA1576 R	FR
260P854020	2SC4[illegible]	[illegible]
260P849020	IMZ1 XN4601	[illegible]
260P843010	FMA1	[illegible]
260P844020	FMMT [illegible]	[illegible] R6
260P856010	DTA144EU	16
260P852010	IMB2 XN1213	32
260P851010	IMD2 XN4413	D2
260P857010	DTC144EU	26
260P88[illegible]050	2SA1037AK Q	HQ
260P853010	FMA2 XN1113	A2
DIODES		
264P828010	DA1202U	[illegible]
264P833010	MC411G [illegible]	411
264P814010	DAP202U	[illegible]
COILS		
325C24[illegible]	10[illegible] K	[illegible]
325C243000	270 [illegible] K	271
325C14[illegible]	15 [illegible] K	150
325C242080	120 μH [illegible]	121
325C230[illegible]	3.3 [illegible]	3R3
325C142060	100 μH [illegible]	101K
325C141070	22 μH K	220
RESISTORS		
103P504080	1/20W 82KΩ J	823
103P503090	1/20W 15KΩ	153
103P504050	1/20W 33KΩ±J	333
103P504060	1/20W 47KΩ	473
103P501070	1/20W 220Ω±	221
103P502040	1/20W [illegible]20Ω	[illegible]21
103P502070	1/20W 1.5KΩ J	152
103P509010	0Ω RM1606	00
103P503040	1/20W 5.6KΩ±J	562
103P501030	1/20W 100Ω J	101
103P503030	1/20W 4.7KΩ±J	472
103P504100	1/20W 100KΩ J	104
103P502060	1/20W 1KΩ J	102
103P501050	1/20W 150Ω J	151
103P503070	1/20W 10KΩ±J	103
103P504010	1/20W 22KΩ J	223
103P504060	1/20W 47KΩ	47[illegible]
103P502030	1/20W 680Ω±	681
103P502000	1/20W 390Ω±J	391
103P504020	1/20W 27KΩ J	273
103P502090	1/20W 2.7KΩ J	272
103P502080	1/20W 2.2KΩ±J	222

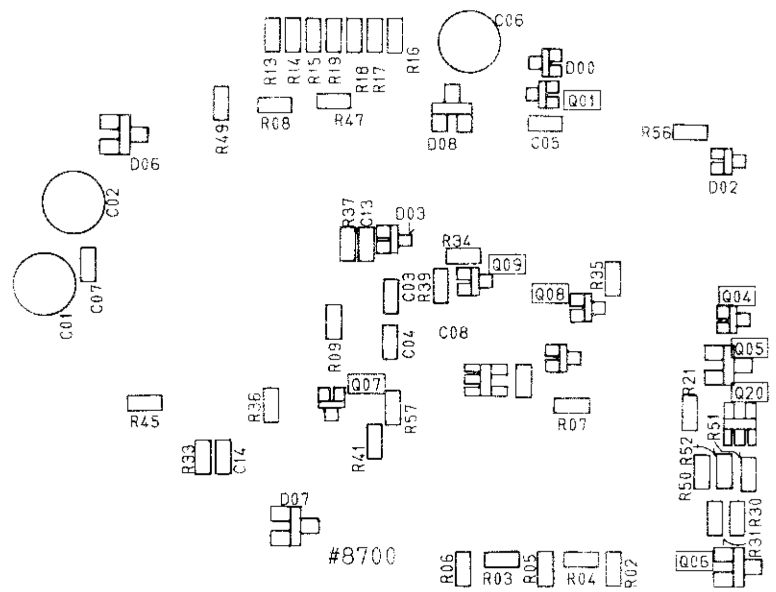
PARTS No	DESCRIPTION	IMPRINTING
103P502020	1/16W 560Ω J	561
103P502010	1/20W 470Ω J	471
103P503[illegible]0	1/20W 12KΩ J	123
103P501090	1/20W 330Ω±J	331
103P503020	1/20W 3.9KΩ J	392
103P5020[illegible]0	1/20W 1.2KΩ±J	122
103P504090	1/20W 100KΩ J	104
103P504060	1/20W 56KΩ±J	563
103P505070	1/20W 470KΩ±J	474
103P503060	1/20W 8.2KΩ±J	822
103P504000	1/20W 18KΩ±J	183
103P503000	1/20W 2.7KΩ±J	272
103P503050	1/20W 6.8KΩ±J	682
109P107020	1/32W 15K±J	A153
109P107040	1/32W 330K±J	A334
1[illegible]3P473040	1/10W2.4K±F	242
103P501000	1/20W 270Ω J	271
103P504070	1/20W 68KΩ±J	683
103P504040	1/20W 39KΩ J	393
103P501060	1/20W 180Ω±J	181
103P504080	1/20W 82KΩ	823
1[illegible]P501040	1/16W 120Ω J	121
1[illegible]3P359030	1/16W 0Ω	00
103P500090	1/20W 47Ω J	470
CAPACITORS		
1[illegible]1P56[illegible]	16V47μF M	47μF 16V
141P142010	F50V 0.01μF Z	
141P135030	F16V1μF Z	A6
154P344050	CH50V 270P J	[illegible]
154P342070	CH50V 47P J	
154P354040	SL50V 220P J	[illegible]
181P502030	16V10μF M	10μF 16V
154P351040	SL50V 12P C	
154P353040	SL50V 82P J	[illegible]
181P500040	6.3V100μF M	100μF [illegible]
154P343010	CH50V 68P J	
154P343070	CH50V 120P J	[illegible]
189P121010	6.3V3.3μF M	JN6
154P353050	SL50V 56P J	
154P352020	SL50V 27P J	
154P355000	SL50V 390P J	
154P351020	SL50V 10P J	
154P352040	SL50V 33P J	
154P354050	SL50V 330P J	[illegible]
154P353080	SL50V 100P J	
189P125010	25V	FS4
181P506000	50V0.47μF M	0.47μF50V
189P123070	16V10μF M	CA7
181P500030	04W6.3V47μF M	47μF 6V
181P500080	04W10V33μF M	33μF 10V
141P143050	F50V 1000P Z	
154P352000	SL50V 22P J	[illegible]
154P355020	SL50V 470P J	[illegible]

PARTS No	DESCRIPTION	IMPRINTING
154P355040	SL25V 560P J	
141P137040	B25V0.022M	J4
141P135080	F25V0.1μF Z	A5
181P510010	04W6.3V22μF M	22μF 6[illegible]
181P500010	6.3V22 μF M	22μF 6[illegible]
154P341090	CH50V 22P J	[illegible]
154P342010	CH50V 27P J	
141P144000	F25V0.033μF Z	[illegible]
154P340060	CH50V 5P C	
154P344030	CH50V 220P J	[illegible]
154P343030	CH50V 150P J	E2
181P500040	6.3V100μF M	100μF 6[illegible]
154P341010	CH50V 10P C	A1
189P122030	10V4.7μF M	A56

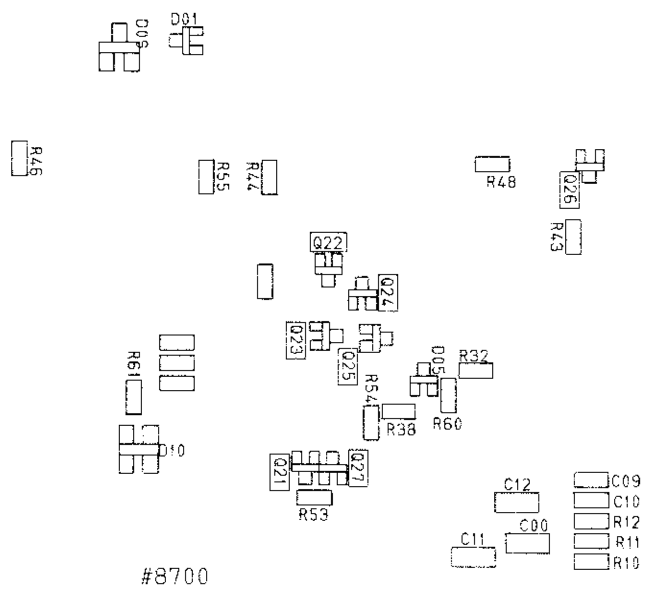
PARTS No.	DESCRIPTION	IMPRINTING
103P502020	1/16W 560Ω−J	561
103P502010	1/20W 470Ω−J	471
103P503040	1/20W 12KΩ−J	123
103P501080	1/20W 330Ω−J	331
103P503020	1/20W 3.9KΩ−J	392
103P502030	1/20W 1.2KΩ−J	122
103P504090	1/20W 100KΩ−J	104
103P504060	1/20W 56KΩ−J	563
103P505070	1/20W 470KΩ−J	474
103P503060	1/20W 8.2KΩ−J	822
103P504000	1/20W 18KΩ−J	183
103P503000	1/20W 2.7KΩ−J	272
103P503050	1/20W 6.8KΩ−J	682
109P107020	1/32W 15K−J	A153
109P107080	1/32W 330K−J	A334
103P473040	1/10W2.4K−F	242
103P501090	1/20W 270Ω−J	271
103P504070	1/20W 68KΩ−J	683
103P504040	1/20W 39KΩ−J	393
103P501050	1/20W 180Ω−J	181
103P504080	1/20W 82KΩ−J	823
103P501040	1/16W 120Ω−J	121
103P359050	1/8W 0Ω	00
103P500090	1/20W 47Ω−J	470
CAPACITORS		
181P502080	16V47μF−M	47μF 16V
141P143060	F50V 0.01μF−Z	
141P138090	F16V1μF−Z	A6
154P344050	CH50V 270P−J	
154P342070	CH50V 47P−J	
154P354040	SL50V 220P−J	[illegible]
181P502030	16V10μF−M	[illegible]
154P351040	SL50V 12P−C	
154P353040	SL50V 82P−J	[illegible]
181P500040	6.3V100μF−M	[illegible]
154P343010	CH50V 68P−J	
154P343070	CH50V 120P−J	
189P121010	6.3V3.3μF−M	JN5
154P353000	SL50V 56P−J	
154P352020	SL50V 27P−J	
154P355000	SL50V 390P−J	[illegible]
154P351020	SL50V 10P−J	
154P352040	SL50V 33P−J	[illegible]
154P354080	SL50V 330P−J	[illegible]
154P353080	SL50V 100P−J	
189P125010	25V	ES4
181P506000	50V0.47μF−M	0.47μF50V
189P123070	16V10μF−M	CA7
181P500030	04W6.3V47μF−M	47μF 6V
181P500090	04W10V 33μF−M	33μF 10V
141P143050	F50V 1000P−Z	[illegible]
154P352000	SL50V 22P−J	
154P355020	SL50V 470P−J	

PARTS No	DESCRIPTION	IMPRINTING
154P355040	SL25V 560P−J	
141P137040	B25V0.022M	J4
141P135080	F25V0.1μF−Z	A5
181P510010	04W6.3V22μF−M	22μF 6V
181P500010	6.3V22μF−M	22μF 6V
154P341090	CH50V 22P−J	[illegible]
154P342010	CH50V 27P−J	
141P144000	F25V0.033μF−Z	
154P340060	CH50V 5P−C	
154P344030	CH50V 220P−J	[illegible]
154P343090	CH50V 150P−J	E2
181P500040	6.3V100μF−M	100μF 6V
154P341010	CH50V 10P−C	A1
139P122030	10V4.7μF−M	AS6

PCB-OPE-SUB(C SIDE)



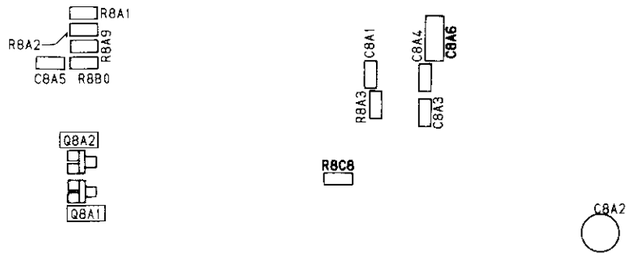
PCB-OPE-SUB(S SIDE)



CHIP PARTS LIST (PCB OPE − SUB)

PARTS No	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P857010	DTC144EU	26
260P864010	2SK209GR	XG
260P802090	2SA1235F,G	MF,MG
260P861050	2SA1577A−Q	HQ
260P854020	2SC4098−P	AP
260P844010	FMW1	W1
260P856010	DTA144EU	16
260P859080	2SB1218A	BR
DIODES		
264P828010	DAN202U	N,Mu
264P816050	RD7.5MB2	752
264P833010	ND411G−2	411
RESISTORS		
103P504050	1/20W 47KΩ−J	473
103P503070	1/20W 10KΩ−J	103
103P504030	1/20W 33KΩ−J	333
103P504090	1/20W 100KΩ−J	104
103P506010	1/20W 1MΩ−J	105
103P509050	0Ω RM1608	00
103P504010	1/20W 22KΩ−J	223
103P506050	1/20W 2.2MΩ−J	225
103P503030	1/20W 4.7KΩ−J	472
103P505080	1/20W 560KΩ−J	564
103P503020	1/20W 3.9KΩ−J	392
103P502050	1/20W 1KΩ−J	102
103P502060	1/20W 1.2KΩ−J	122
CAPACITORS		
141P135080	F25V0.1μF−Z	A5
181P500030	04W6.3V47μF−M	47μF 6V
181P502030	16V10μF−M	10μF 16V
154P342030	CH50V 33P−J	
141P143060	F50V 0.01μF−Z	[illegible]
181P506040	04W50V4.7M	4.7μF 50V

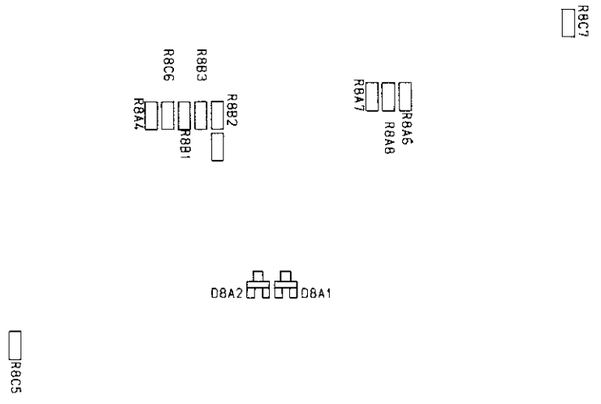
PCB-LCD(C SIDE)



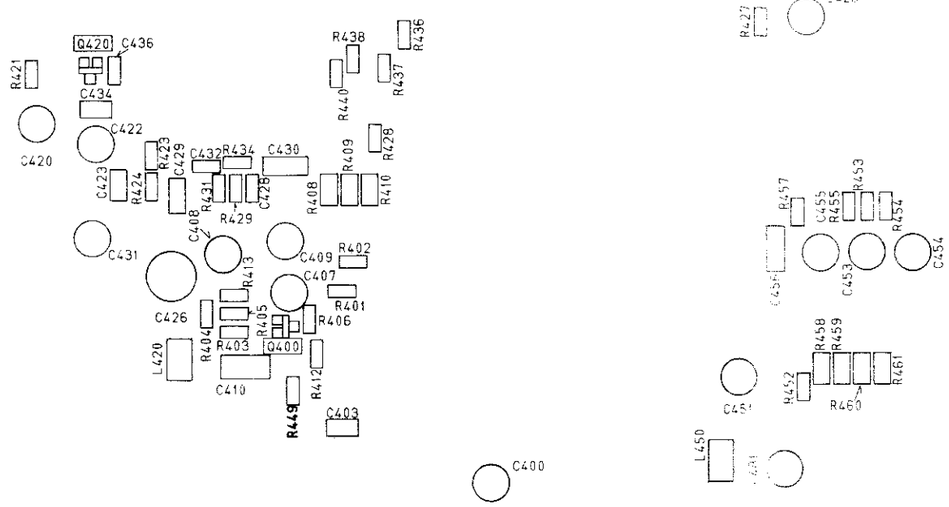
CHIP PARTS LIST (PCB LCD)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P856010	DTA144EU	16
260P857010	DTC144EU	26
DIODE		
264P814010	DAP202U	P,MO
RESISTORS		
103P504090	1/20W 100K Ω – J	104
103P506010	1/20W 1M Ω – J	106
103P504050	1/20W 47K Ω – J	473
103P503070	1/20W 10K Ω – J	103
103P502050	1/20W 1K Ω – J	102
103P502060	1/20W 1.2K Ω – J	122
103P502030	1/20W 680 Ω J	681
103P504030	1/20W 33K Ω J	333
CAPACITORS		
141P143080	F50V 0.01 μ F – Z	– – –
181P502030	16V10 μ F – M	10 μ F 16V
154P343050	CH50V 100P – J	– – –

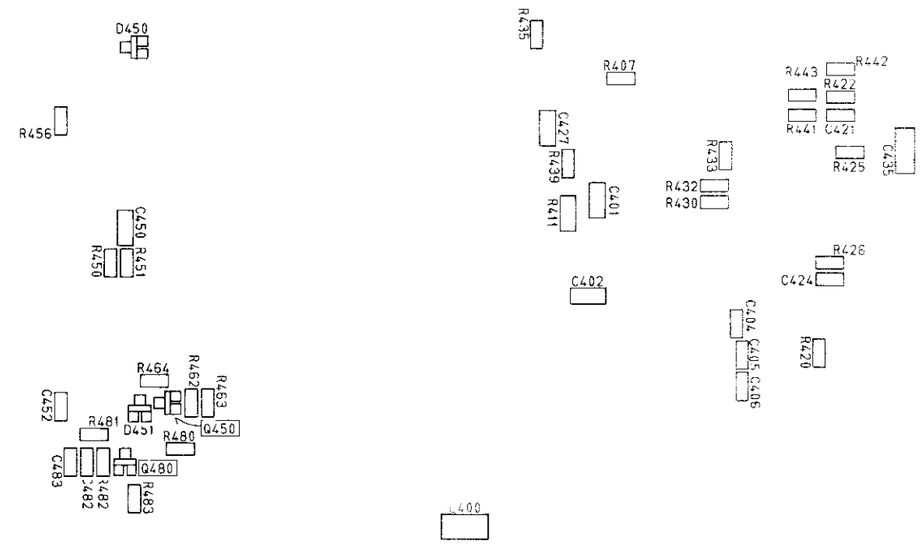
PCB-LCD(S SIDE)



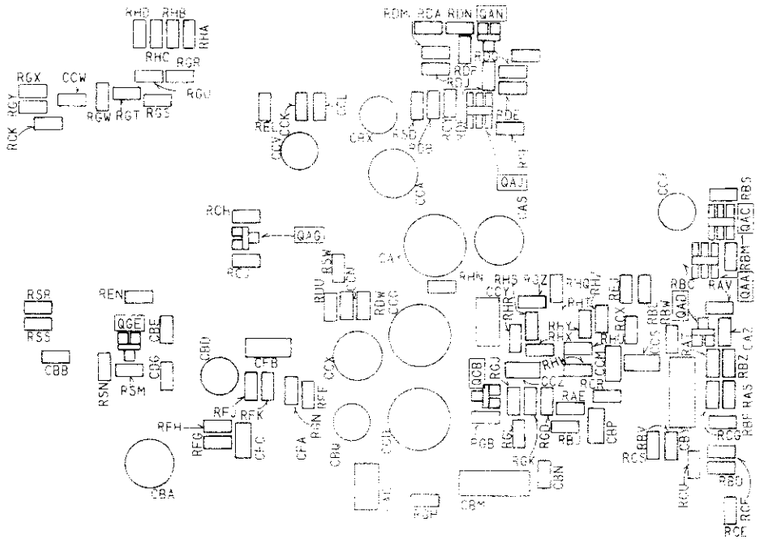
PCB-MDA(C SIDE)



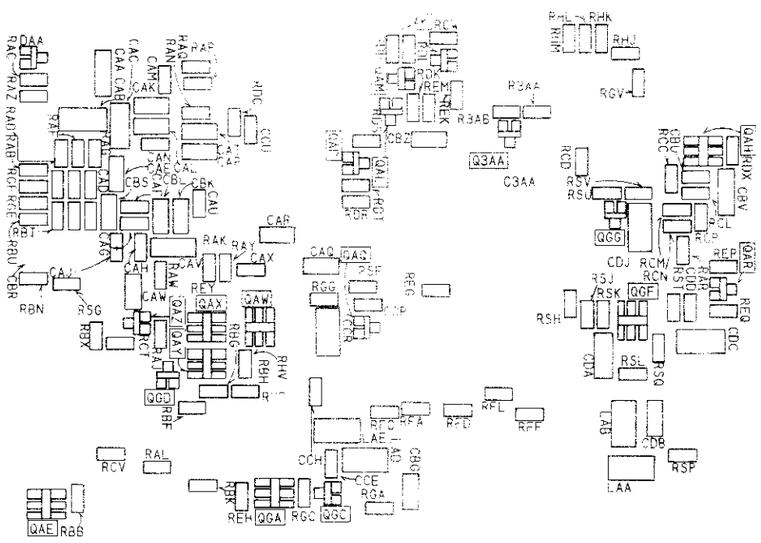
PCB-MDA(S SIDE)



PCB-PC(C SIDE)



PCB-PC(S SIDE)



CHIP PARTS LIST (PCB MDA)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
[illegible]	2SC4081 Q	[illegible]
[illegible]	2SC4081 S	[illegible]
[illegible]	2SD1949 S	[illegible]
DIODES		
[illegible]	DAN202U	[illegible]
[illegible]	DAP202U	[illegible]
COIL		
[illegible]	[illegible]	[illegible]
RESISTORS		
[illegible]	1 20W 47Ω J	[illegible]
[illegible]	1 20W 56K Ω J	[illegible]
[illegible]	1 20W 33 Ω J	[illegible]
[illegible]	1 20W 10K Ω J	[illegible]
[illegible]	1 20W 2.7Ω K	[illegible]
[illegible]	1 20W 680Ω J	[illegible]
[illegible]	1 20W 220Ω J	[illegible]
[illegible]	1 20W 1K Ω J	[illegible]
[illegible]	1 20W 470Ω J	[illegible]
[illegible]	1 20W 1M Ω J	[illegible]
[illegible]	1 20W 82K Ω J	[illegible]
[illegible]	1 20W 2.2K Ω J	[illegible]
[illegible]	1 20W 47K Ω J	[illegible]
[illegible]	1 20W 68K Ω J	[illegible]
[illegible]	1 20W 5.6K Ω J	[illegible]
[illegible]	1 2W 820K Ω J	[illegible]
[illegible]	1 20W 2.2Ω K	[illegible]
[illegible]	1 20W 100Ω J	[illegible]
[illegible]	1 20W 10Ω J	[illegible]
[illegible]	1 20W 47Ω J	[illegible]
[illegible]	1 20W 47Ω K	[illegible]
CAPACITORS		
[illegible]	04W6.3V47 F M	[illegible]
[illegible]	25V 0.1 F Z	[illegible]
[illegible]	F25V0.1 J	[illegible]
[illegible]	F25V0.033 F Z	[illegible]
[illegible]	04W50V2.2 F M	[illegible]
[illegible]	10V4.7 F M	[illegible]
[illegible]	6.3V22 F M	[illegible]
[illegible]	CH50V 180P J	[illegible]
[illegible]	50V1 F M	[illegible]
[illegible]	5.25V 560P J	[illegible]

PARTS No.	DESCRIPTION	IMPRINTING
[illegible]	F16V1 F Z	[illegible]
[illegible]	16V10 F M	[illegible]
[illegible]	B50V 1500P K	[illegible]
[illegible]	F50V0.047M	[illegible]
[illegible]	B25V 0.01 F M	[illegible]
[illegible]	F25V 0.33 F Z	[illegible]
[illegible]	04W10V 33 F M	[illegible]
[illegible]	B50V 2200P K	[illegible]

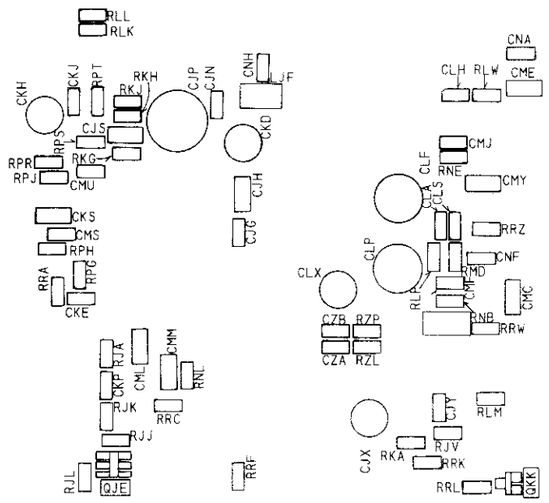
CHIP PARTS LIST (PCB PC)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
[illegible]	IMZ1 XN4501	Z1
[illegible]	2SC4099 Q	AQ
[illegible]	IMX1 XN4502	X1,5H
[illegible]	2SA1576 R	FR
[illegible]	DTC144EU	26
[illegible]	2SD1949 Q	MQ
DIODE		
[illegible]	DAP202U	PMC
COILS		
[illegible]	22 [illegible]	220
[illegible]	10 [illegible]	100
RESISTORS		
[illegible]	1 20W 820Ω J	822
[illegible]	1 20W 56K Ω J	563
[illegible]	1 20W 33K Ω J	333
[illegible]	1 20W 100K Ω J	104
[illegible]	1 20W 39K Ω J	393
[illegible]	1 20W 10Ω J	100
[illegible]	1 20W 68K Ω J	683
[illegible]	1 20W 330Ω J	331
[illegible]	1 20W 470Ω J	471
[illegible]	1 20W 820Ω J	821
[illegible]	1 20W 220Ω J	221
[illegible]	1 20W 680Ω J	681
[illegible]	1 16W 3.9K Ω J	392
[illegible]	0Ω RM1608	000
[illegible]	1 20W 3.3K Ω J	332
[illegible]	1 20W 27K Ω J	273
[illegible]	1 20W 120K Ω J	124
[illegible]	1 20W 2.7K Ω J	272
[illegible]	1 20W 2.7K Ω J	272
[illegible]	1 20W 560Ω J	561
[illegible]	1 20W 1.5K Ω J	152
[illegible]	1 16W 1.2K Ω J	122

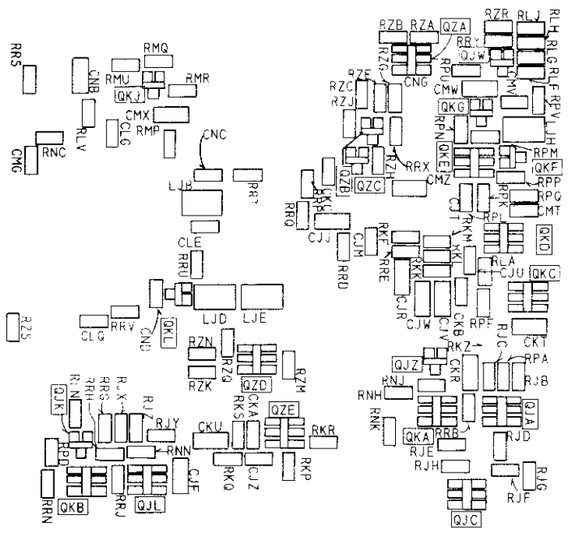
PARTS No.	DESCRIPTION	IMPRINTING
[illegible]	1 20W 120Ω J	121
[illegible]	1 20W 82K Ω J	823
[illegible]	1 20W 680K Ω J	684
CAPACITORS		
[illegible]	10V2.2 F M	A25
[illegible]	10V4.7 F M	A58
[illegible]	F25V0.22 J F Z	[illegible]
[illegible]	F50V 0.01 J F Z	[illegible]
[illegible]	F25V0.1 J F Z	A1
[illegible]	F50V0.047M	55
[illegible]	04W4V 100 F M	100 J F A1
[illegible]	6.3V100 J F M	100 J F A1
[illegible]	CH50V 100P J	[illegible]
[illegible]	04W6.3V47 J F M	47 J F B
[illegible]	6.3V22 J F M	22 J F B1
[illegible]	6.3V22 J F M	[illegible]
[illegible]	04W16V4.7 J F M	4.7 J F B1
[illegible]	16V10 J F M	DA
[illegible]	SL50V 390P J	[illegible]
[illegible]	6.3V3.3 J F M	[illegible]
[illegible]	4V33 J F M	33 J F A1
[illegible]	04WE.3V22 J F M	22 J F A1
[illegible]	16V47 J F M	47 J F B1
[illegible]	CH50V 56P J	[illegible]
[illegible]	CH50V 27P J	[illegible]
[illegible]	F25V0.033 J F Z	[illegible]
[illegible]	F1SV1 J F Z	A5
[illegible]	CH50V 220P J	[illegible]
[illegible]	16V3.3M	CME

HS-C40A
HS-C40B
HS-C40E(9/9)

PCB-EC(C SIDE)



PCB-EC(S SIDE)

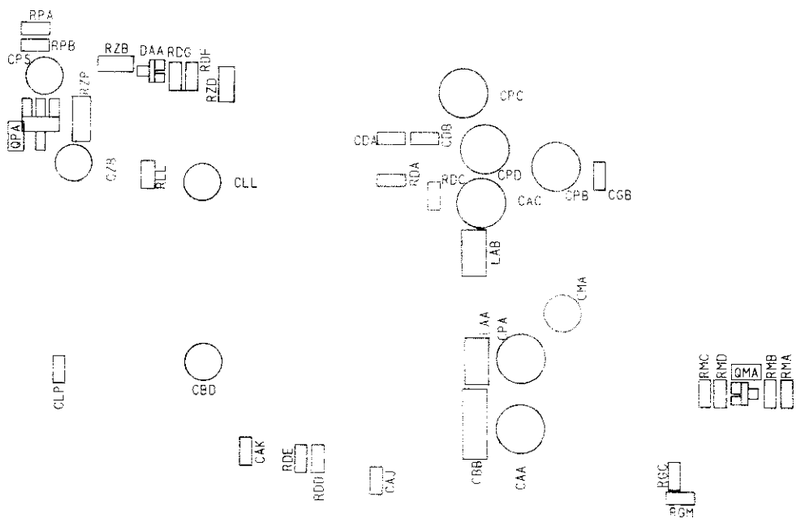


CHIP PARTS LIST (PCB EC)

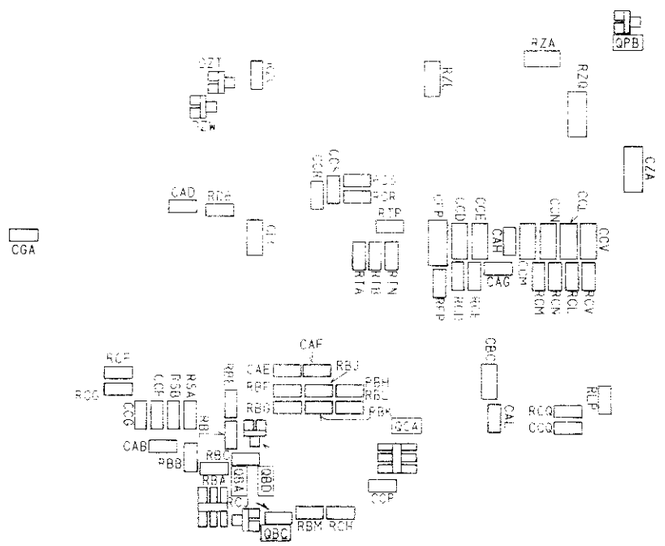
PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P845020	IMX1 / XN4501	X1,5H
260P849020	IMZ1 / XN4601	Z1
260P854030	2SC4096 - Q	AQ
260P859020	2SA1576 - R	FR
260P838010	IMT1	T1
COILS		
3250241270	22 μ H - K	220
3250242050	100 μ H - K	101K
RESISTORS		
103P502060	1/20W 1K Ω - J	102
103P503030	1/20W 4.7K Ω - J	472
103P502290	1/20W 2.2K Ω - J	222
103P503060	1/20W 1.2K Ω - J	122
103P503010	1/20W 3.3K Ω - J	332
103P501070	1/20W 220 Ω - J	221
103P501030	1/20W 100 Ω - J	101
103P504030	1/20W 33K Ω - J	333
103P503000	1/20W 2.7K Ω - J	272
103P503070	1/20W 10K Ω - J	103
103P509050	0 Ω RM1608	0
103P504020	1/20W 27K Ω - J	273
103P502040	1/20W 820 Ω - J	821
103P501060	1/20W 180 Ω - J	181
103P503060	1/20W 8.2K Ω - J	822
103P503090	1/20W 15K Ω - J	153
103P500080	1/20W 39 Ω - J	390
103P502050	1/20W 390 Ω - J	391
103P502010	1/20W 470 Ω - J	471
103P503040	1/20W 5.6K Ω - J	562
103P503080	1/20W 12K Ω - J	123
103P505020	1/20W 160K Ω - J	164
103P502080	1/20W 2.7K Ω - J	272
103P503020	1/20W 3.9K Ω - J	392
103P503050	1/20W 6.8K Ω - J	682
103P504010	1/20W 22K Ω - J	223
103P502030	1/20W 680 Ω - J	681
103P502070	1/20W 1.5K Ω - J	152
103P505040	1/20W 270K Ω - J	274
CAPACITORS		
141P135080	F25V0.1 μ F - Z	A5
141P142010	B25V 0.01 μ F - K	---
141P133080	F50V0.01 μ F - Z	A4
181P500040	6.3V100 μ F - M	*100 μ F 6V
141P134010	F50V0.047M	54
189P123010	6.3V3.3 μ F - M	JN5
181P500010	6.3V22 μ F - M	22 μ F 6V
154P343030	CH50V 82P - J	---

PARTS No.	DESCRIPTION	IMPRINTING
181P507080	4V33 μ F - M	33 μ F 4V
154P343050	CH50V 100P - J	---
154P342010	CH50V 27P - J	---
181P500030	04W6.3V47 μ F - M	47 μ F 6V
154P341010	CH50V 10P - C	---
141P144000	F25V0.033 μ F - Z	---
154P341030	CH50V 12P - J	---
189P123040	16V3.3M	CN6
189P123070	16V10 μ F - M	CA7

PCB-CM(C SIDE)



PCB-CM(S SIDE)

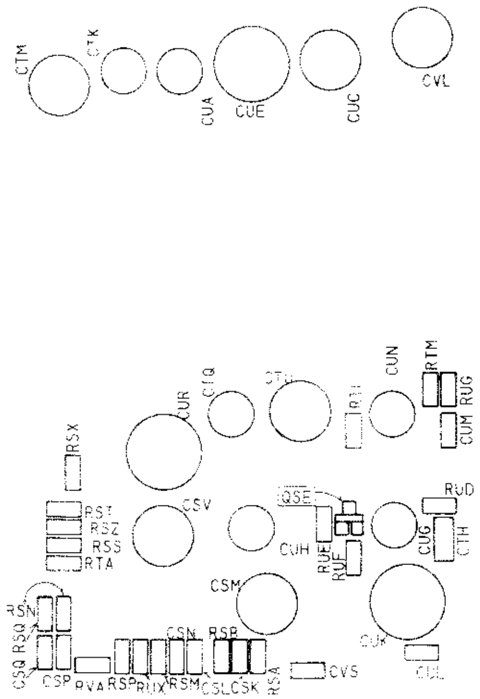


CHIP PARTS LIST (PCB CM)

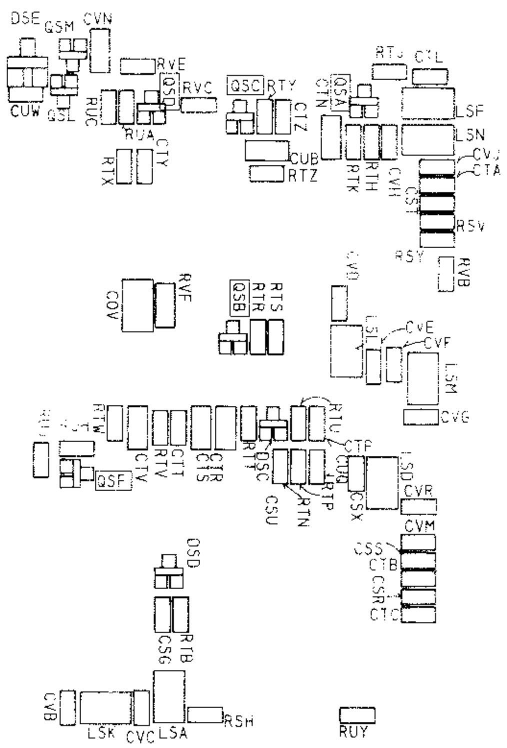
PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P851010	IMD2 / XN4312	D2
260P854030	2SC4096 - Q	AQ
260P862010	2SB798 - DK	DK
260P857020	DTC144EU	24
DIODES		
264P528010	DAN202U	KN
264P830020	DA204U	A
COILS		
3250242010	47 μ H - K	470
3250242050	100 μ H - K	101K
RESISTORS		
103P509050	0 Ω RM1608	0
103P506010	1/20W 1M Ω - J	105
103P503070	1/20W 10K Ω - J	103
103P504020	1/20W 27K Ω - J	273
103P504050	1/20W 47K Ω - J	473
103P502050	1/20W 1K Ω - J	102
103P503080	1/20W 12K Ω - J	123
103P504090	1/20W 100K Ω - J	104
103P503030	1/20W 4.7K Ω - J	472
103P473050	1/10W 2.7K Ω - F	2701
103P474010	1/10W 470K Ω - F	4703
103P474090	1/10W 10K Ω - F	1002
103P351080	1/8W 2.2 Ω - J	2R2
CAPACITORS		
181P500030	04W6.3V47 μ F - M	47 μ F
141P142010	B25V 0.01 μ F - K	---
141P135080	F25V0.1 μ F - Z	A5
141P143060	F50V 0.01 μ F - Z	---
154P342030	CH50V 33P - J	---
141P136000	F25V 0.33 μ F - Z	---
181P500010	6.3V22 μ F - M	22 μ F
181P502030	16V10 μ F - M	10 μ F
181P502060	04W10V 33 μ F - M	33 μ F

CM)		
RIPTION	IMPRINTING
ISTORS	
312	02
Q	AC
K	DK
	25
DES	
	N MJ
	K
ILS	
	470K
	[illegible]
TORS	
8	00
M Ω J	106
K Ω – J	103
K Ω – J	2[illegible]
K Ω – J	473
Ω J	10[illegible]
K Ω J	123
0K Ω J	104
K Ω – J	472
K – F	272
K F	472
– F	103
Ω – J	271
CITORS	
μ F – M	47 μ F 6V
μ F K	
F – Z	AE
μ F – Z	
J	
μ F – Z	N5
F M	22 μ F 6V
M	10 μ F 16V
3 μ F M	33 μ F 10V

PCB-SD(C SIDE)



PCB-SD(S SIDE)

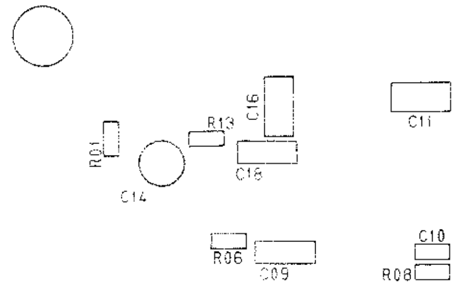


CHIP PARTS LIST (PCB SD)

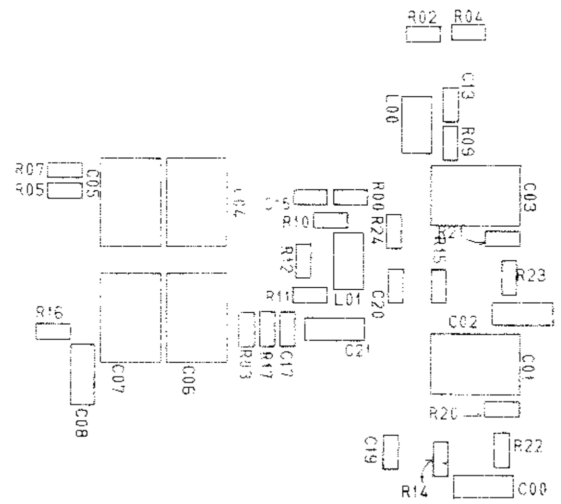
PARTS No.	DESCRIPTION	IMPRINTING
	TRANSISTORS	
260P867020	2SD1949 [illegible]	YC
260P854030	2SC4098 [illegible]	AC
260P851020	2SA1577A [illegible]	HQ DS
	DIODES	
264P814010	DAP202U	P MQ
264P815080	RD5.1MB1	5[illegible]
	COILS	
325C241070	22 μ H – K	220
325C140010	3.3 μ H – K	3R3
325C140030	1.5 μ H – M 322520	1R5
	RESISTORS	
103P50[illegible]	[illegible] 20W 100 Ω [illegible]	[illegible]
103P50[illegible]	1/20W 1M Ω [illegible]	[illegible]06
103P502020	1/20W 560 Ω [illegible]	561
103P502050	[illegible]20W 1K Ω [illegible]	102
103P503010	[illegible]20W 2.7K Ω [illegible]	272
103P501080	[illegible]20W 270 Ω [illegible]	271
103P503020	[illegible]20W 2.2K Ω	222
103P501070	[illegible]20W 220 Ω [illegible]	221
103P502030	[illegible]20W 680 Ω [illegible]	681
103P503090	[illegible]20W 15K Ω [illegible]	153
103P502010	[illegible]20W 470 Ω [illegible]	471
103P504030	[illegible]20W 18K Ω [illegible]	183
103P500010	[illegible]20W 10 Ω [illegible]	100
103P503030	[illegible]20W 4.7K Ω [illegible]	472
103P504040	[illegible]20W 39K Ω [illegible]	393
103P503020	[illegible]20W 3.9K Ω [illegible]	392
103P503010	[illegible]20W 3.3K Ω [illegible]	332
103P500050	[illegible]20W 22 Ω [illegible]	220
103P504090	[illegible]20W 100K Ω	[illegible]
103P50[illegible]	[illegible]20W [illegible]	[illegible]
103P504030	[illegible]20W 33K Ω [illegible]	333
103P502080	[illegible]20W 2.7K Ω [illegible]	272
103P504010	1/20W 22K Ω [illegible]	223
103P503080	[illegible]20W 12K Ω [illegible]	123
103P504020	[illegible]20W 27K Ω [illegible]	273
103P503040	[illegible]20W 5.6K Ω [illegible]	562
103P504050	[illegible]20W 47K Ω [illegible]	473
103P502070	[illegible]20W 1.5K Ω [illegible]	152
103P409050	[illegible]10W 0 Ω	00
	CAPACITORS	
154P341050	CH50V 15P [illegible]	[illegible]
141P143030	F50V 0.01 μ F [illegible]	
181P500030	04W6.3V47 μ F [illegible] M	47 μ F 6V
154P341030	CH50V 12P [illegible]	

PARTS No.	DESCRIPTION	IMPRINTING
154P343030	CH50V 82P [illegible]	[illegible]
154P342050	CH50V 39P [illegible]	[illegible]
154P341090	CH50V 22P [illegible]	[illegible]
154P342070	CH50V 47P [illegible]	[illegible]
141P135030	F25V [illegible] μ F [illegible] Z	45
181P502030	16V10 μ F – M	10 μ F 16V
181P502040	04W16V 22 μ F M	22 μ F 16V
141P143050	F50V 1000P [illegible]	
181P506010	50V1 μ F – M	[illegible] μ F 50V
181P505000	04W35V 10 μ F – M	10 μ F 35V
181P504090	35V4.7 μ F M	4.7 μ F 35V
181P505010	35V22 μ F – M	22 μ F 35V
181P500010	6.3V22 μ F M	22 μ F 6V
181P503090	25V33 μ F M	33 μ F 25V
141P140090	B50V 1000P – K	

PCB-MIC-AMP(C SIDE)



PCB-MIC-AMP(S SIDE)



CHIP PARTS LIST (PCB MIC – AMP)

PARTS No.	DESCRIPTION	IMPRINTING
	COIL	
325C242050	100 μ H – K	101K
	RESISTORS	
103P502020	1/20W 560 Ω – J	561
103P503080	1/20W 12K Ω – J	123
103P501030	1/20W 100 Ω – J	101
103P504090	1/20W 100K Ω – J	104
103P501080	1/20W 270 Ω – J	271
103P504050	1/20W 47K Ω – J	473
103P504010	1/20W 22K Ω – J	223
103P503010	1/20W 3.3K Ω – J	332
103P504070	1/20W 68K Ω – J	683
103P509050	0 Ω RM1608	00
	CAPACITORS	
189P123010	16V1 μ F – M	CA6
181P502060	16V47 μ F – M	47 μ F 16V
141P143080	F50V 0.01 μ F – Z	
181P500030	04W6.3V47 μ F – M	47 μ F 6V
189P120030	4V10 μ F – M	4A7
141P141050	B50V 3300P – K	– – –
189P125010	35V0.1M	VA6
141P140090	B50V 1000P – K	– – –