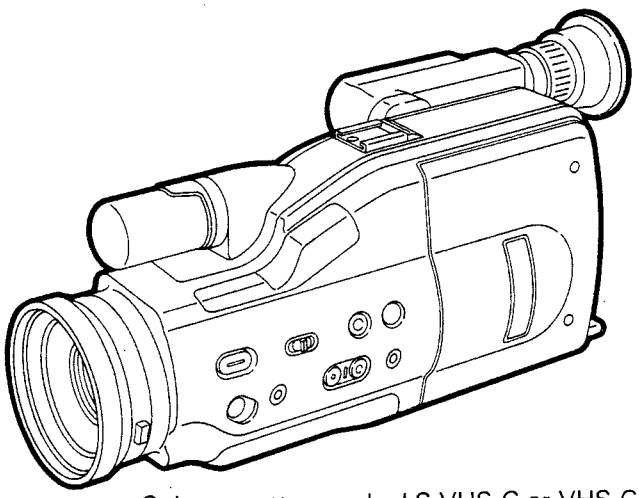
1991

MITSUBISHI

Service Manual

VIDEO CAMERA/RECORDER



S-VHS-C
VHS-C

MODEL

HS-C35B
HS-C35E

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 6V
Power consumption	: Approx.7.2Watts
Signal system	: PAL System
Recording system	: Luminance : FM recording Colour : Converted sub-carrier direct recording Conforms to S-VHS/VHS standard Hi-Fi audio : FM deep layer recording
Cassette	: VHS-C cassette,S-VHS-C cassette
Tape speed(SP)	: 23.39mm/sec
(LP)	: 11.70mm/sec
Recording time	
Max.(SP)	: 45 minutes (with SE-C45 cassette)
(LP)	: 90 minutes (with SE-C45 cassette)
VIDEO output	: 1Vp-p, 75 ohm, unbalanced VIDEO OUT socket
Luminance output	: 1.0Vp-p, 75 ohm, unbalanced S-VIDEO OUT socket
Chroma output	: 0.3Vp-p, Burst signal 75 ohm, unbalanced S-VIDEO OUT socket
AUDIO output	: -6dBs, 1k-ohm, unbalanced AUDIO OUT sockets
Microphone input	: -68dBs, high impedance, unbalanced
Pick up	: 12.7mm-format CCD
Minimum required illumination	: 9 lux
Lens	: F1.8, f9-54mm (standard lens) 6:1 power zoom lens with auto iris control Filter diameter 67mm
Viewfinder	: Electronic viewfinder with 17.8mm black/white CRT
White balance adjustment	: Full-auto/selectable FIX, INDOOR or OUTDOOR
Operating temperature	: 0 ℃ to +40 ℃
Operating humidity	: 30% to 80%
Weight	: 0.95kg (with EVF)
Dimensions	: 116(W) × 125(H) × 301(D)mm

AC POWER ADAPTER DA-C35(B,E)

Power source	: AC 110-240V(50/60Hz)
Power consumption	: 22watts
Rated output voltage	: DC 6.7V(VCR),DC 8.5V (BATT)
Rated output current	: 1.6A(VCR), 1.3A(BATT)
Charging system	: Constant current, voltage controlled
Dimensions	: 70(W) × 49(H) × 170(D)mm
Weight	: Approx. 400g

MITSUBISHI ELECTRIC

CONTENTS

DISASSEMBLY

In removing the FPC cable, be careful not 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 FPC cable connection downward, then connect in reverse order show by the arrows in Fig. 1.

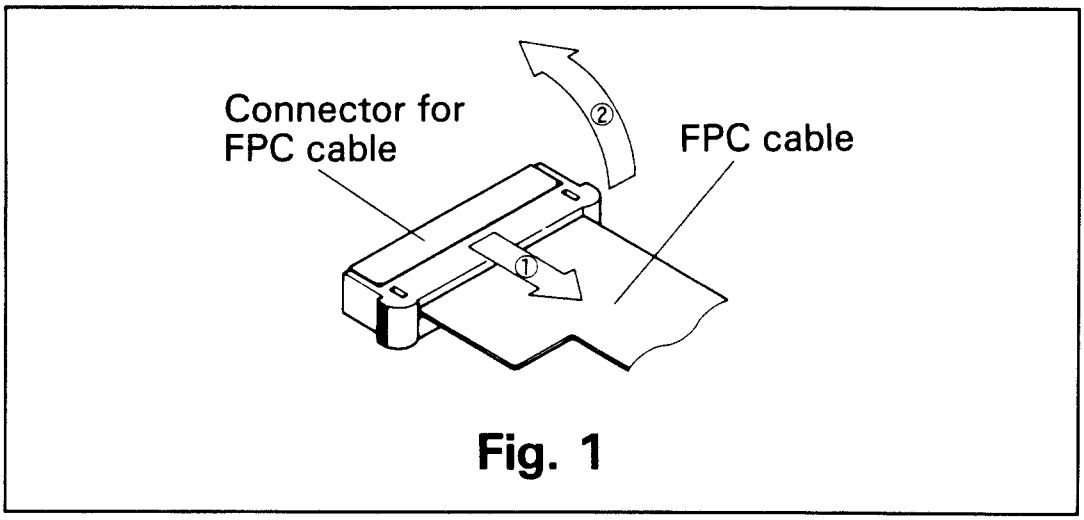
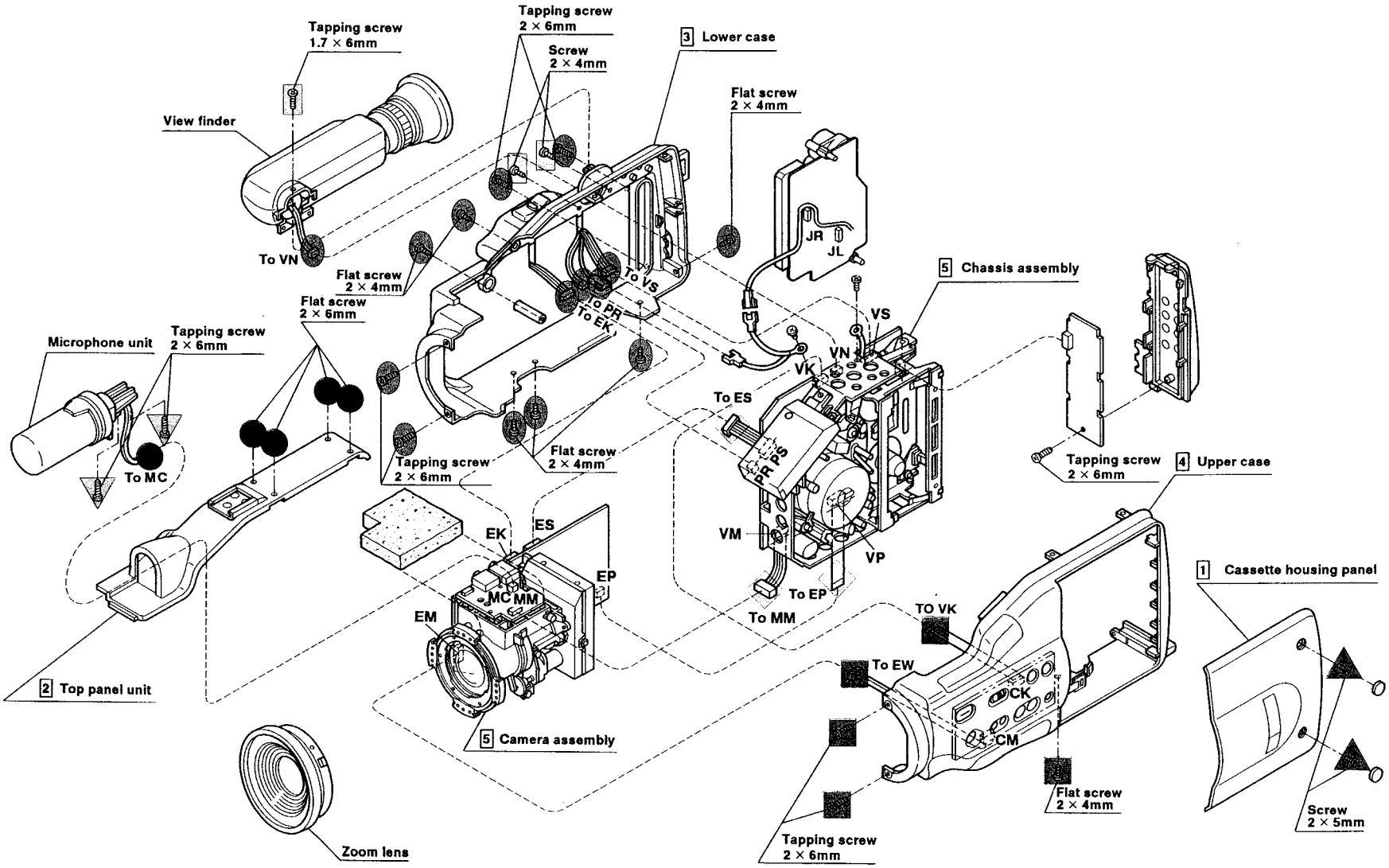


Fig. 1

1.Case(Outer) Disassembling Procedure

Order	1	2	3	4	5
Article name	Cassette housing panel	Top panel unit	Lower case	Upper case	Chassis assembly & Camera assembly
Symbol of removed part					
Screw & Terminal to be removed	Screws- 2 pcs.	Screws- 10 pcs. Terminals- VN, VS, EK, PR	Screws- 4 pcs.	Screws- 2 pcs.	Terminals- MM, EP, ES

Order	after 2	after 3
Article name	Viewfinder	Microphone unit
Symbol of removed part		
Screw & Terminal to be removed	Screws- 3 pcs.	Screws- 2 pcs.


Tapping screw
1.7 × 6mm
Tapping screw
2 × 6mm
Screw
2 × 4mm
3 Lower case
Flat screw
2 × 4mm
View finder
To VN
Flat screw
2 × 4mm
To VS
To PR
To EK
JR
JL
5 Chassis assembly
Flat screw
2 × 6mm
Microphone unit
Tapping screw
2 × 6mm
VS
VN
VK
To ES
To MC
Tapping screw
2 × 6mm
Flat screw
2 × 4mm
PR PS
Tapping screw
2 × 6mm
4 Upper case
EK
ES
EP
VM
VP
MC MM
To EP
EM
To MM
TO VK
1 Cassette housing panel
To EW
CK
CM
2 Top panel unit
5 Camera assembly
Flat screw
2 × 4mm
Screw
2 × 5mm
Zoom lens
Tapping screw
2 × 6mm

HOW TO EXCUTE CIRCUIT BOARD SERVICE

1. Chassis Assembly

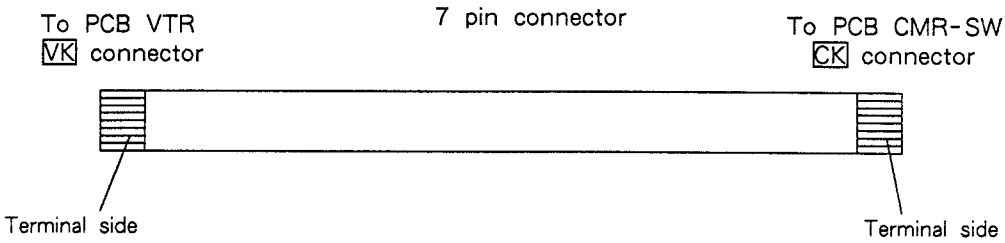
Order	No order of taking off units		1	2	3
Article name	PCB JACK	PCB PANEL SW	PCB POWER	Shield cover	PCB VTR
Symbol of removed part			▲		●
Screw & Terminal to be removed	Terminals - JL, JR	Terminals - AJ	Screws - 2 pcs. Terminals - PQ		Screws - 3 pcs. Terminals - VA, VB, VC, VD, VE, VF, VG

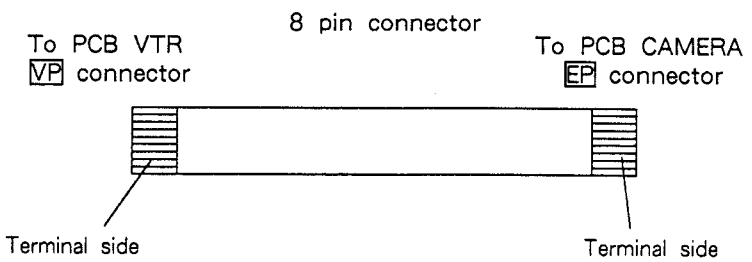
Cautionary Instructions for Chassis Assembly Replacement

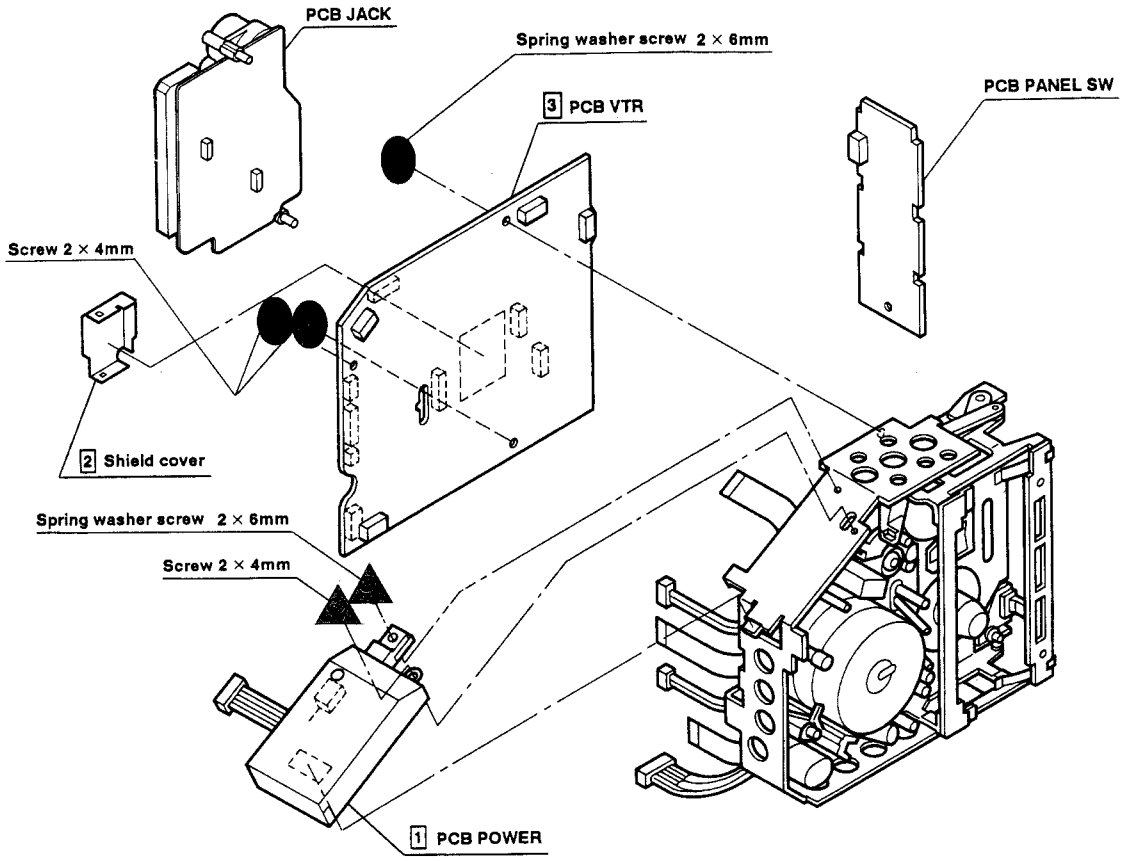
1. To replace the chassis assembly disassemble the chassis assembly into individual parts according to the disassembling procedure of the casing(outer), then change the chassis.
2. The PCB is connected as illustrate below. At assembly, be sure to connect to the original condition.

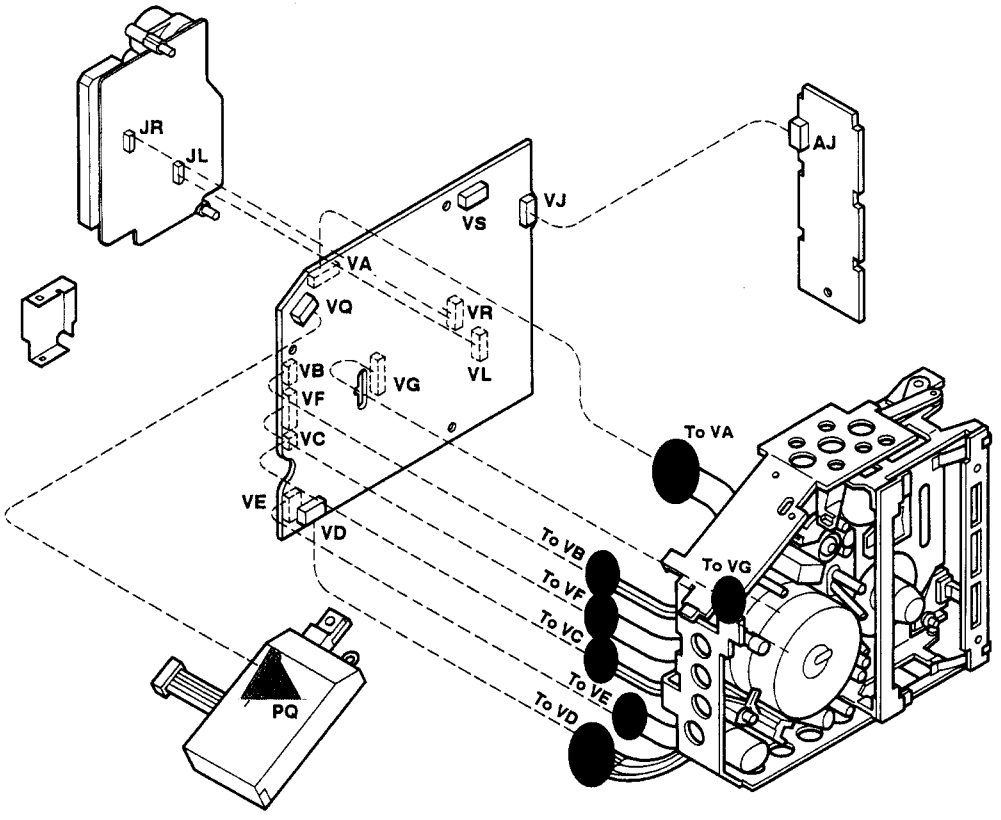
   The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit.

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






PCB JACK
Spring washer screw 2 × 6mm
3 PCB VTR
PCB PANEL SW
Screw 2 × 4mm
2 Shield cover
Spring washer screw 2 × 6mm
Screw 2 × 4mm
1 PCB POWER


JR
JL
VS
VJ
AJ
VA
VQ
VR
VB
VG
VL
VF
VC
VE
VD
To VA
To VB
To VG
To VF
To VC
To VE
To VD
PQ

2.. Camera Assembly

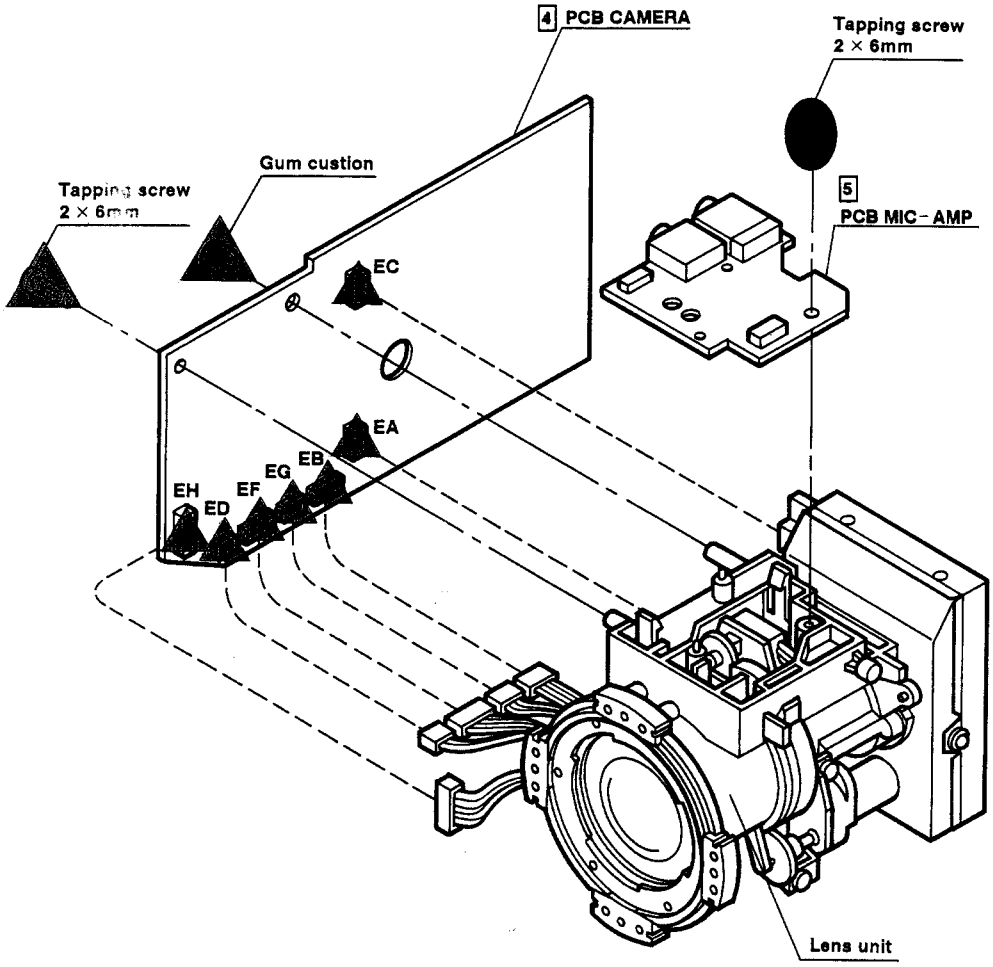
Order	4	5
Article name	PCB CAMERA	PCB MIC-AMP
Symbol of removed part	▲	●
Screw & Terminal to be removed	Rubber cushion Screw - 1 pc. Terminals - EA, EB, EC, ED, EF, EG,	Screw- 1 pc.

Cautionary Instructions at Camera Assembly Replacement

1.When 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.

2.The PCB are connected as illustrate 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.



Cautionary Instructions at 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 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 on page 8.
   2. Remove 20 terminals of the CCD image sensor solder to the PCB SD, and take off the CCD image seonsor.

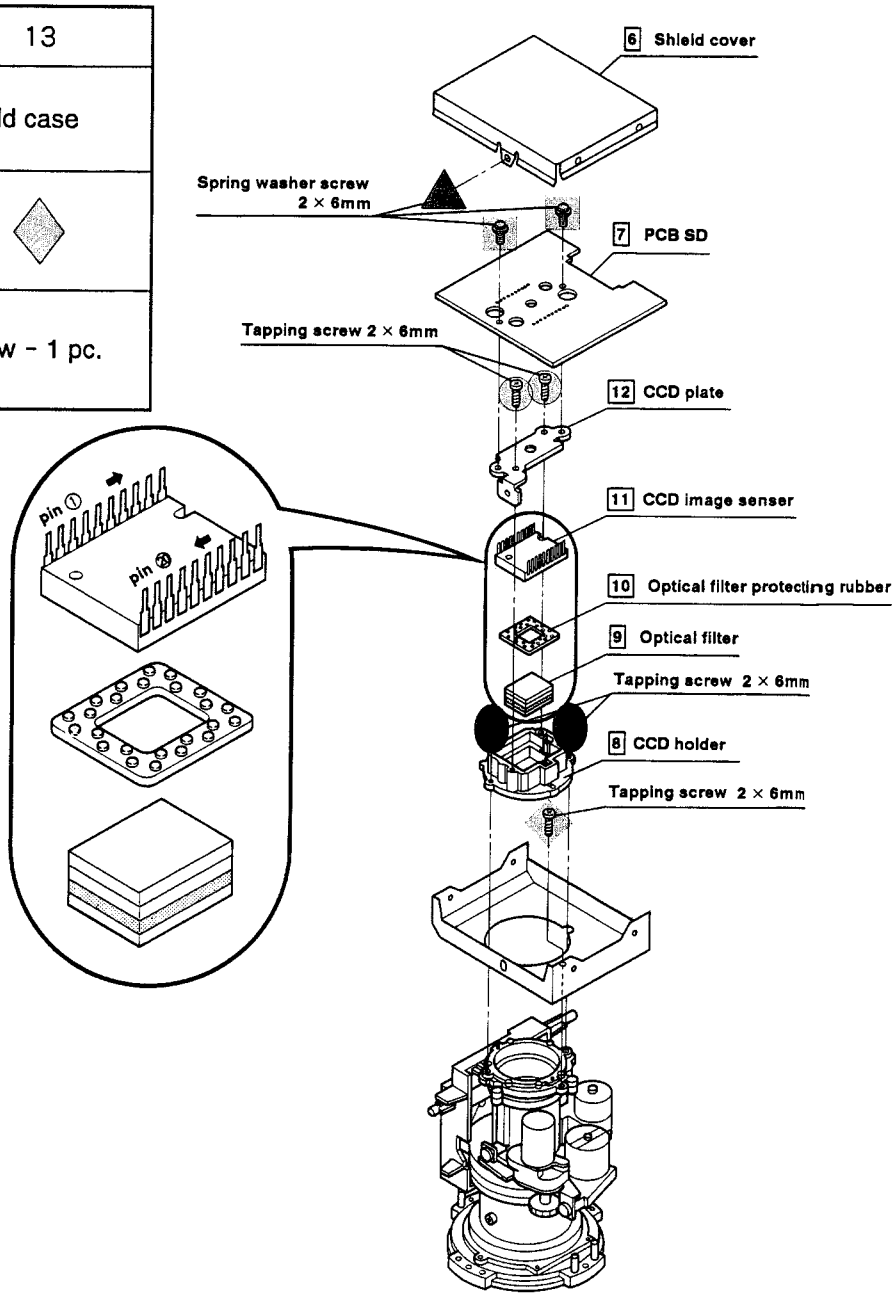
   How to Attach

   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.

3. Lens Unit Assembly

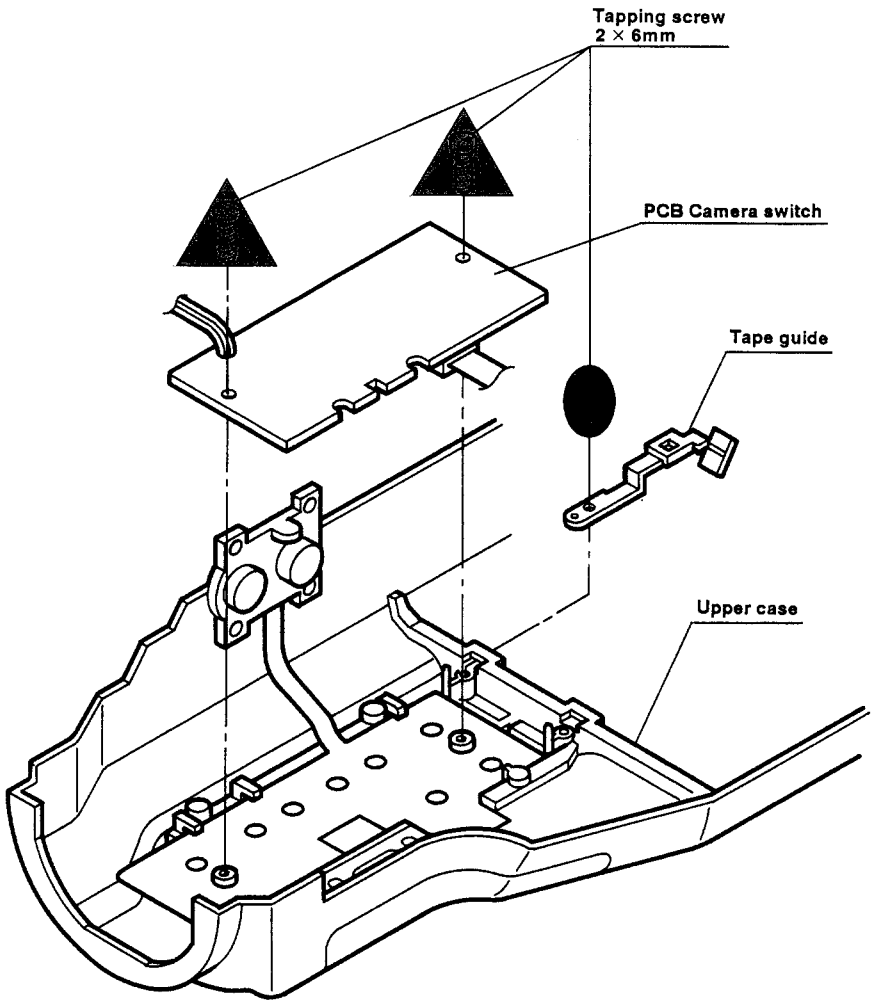
Order	6	7	8	9	10
Article name	Shield cover	PCB SD	CCD holder	Optical filter	Optical filter protecting rubber
Symbol of removed part	▲	●	○		
Screw & Terminal to be removed	Screw - 1 pc.	Screws - 2 pcs.	Screws- 2 pcs.		

11	12	13
CCD image sensor	CCD plate	Shield case
	■	◆
	Screws - 2 pcs.	Screw - 1 pc.



4. PCB Camera switch

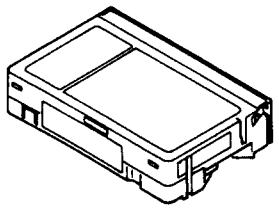
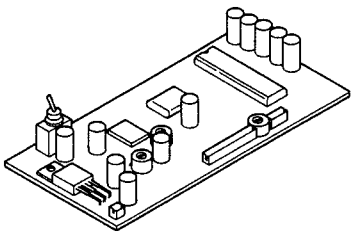
Order	No order of taking off units	
Article name	PCB Camera switch	Tape guide
Symbol of removed part	▲	●
Screw & Terminal to be removed	Screws - 2 pcs.	Screw - 1 pc.



VCR UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Adjustment of VCR

1-1. Jigs for Adjustment

Alignment tape	Video signal input jig	Pincers for mini – connectors
		859C395030
		

Note: To input the video signal, supply the video signal to VL connector via a video signal input jig.

1-2. Specifications of Alignment Tape

	Video signal	Audio signal	Detail of use
PM6KE2C (859C397060)	Stair step	6kHz	• Compatibility checking and adjustment • Checking drum servo circuit • Audio head azimuth adjustment
PC1KC (859C397070)	Colour bar	1kHz	• Adjustment of video signal playback circuit • Adjustment of audio signal playback circuit
PC(S) (859C397080)	Colour bar		• Adjustment of playback demodulation sensitivity & playback level

1-3. Other tools and measuring instruments required

① Colour monitor (Colour TV)
② Oscilloscope
③ Colour bar generator
④ Frequency counter
⑤ Full set of General electric tools
⑥ Audio generator
⑦ D.C. Voltmeter
⑧ Carrier checker
⑨ Screwdriver for camera adjustment

2. Prior to Adjustment

Adjustment of VCR circuit becomes necessary, in almost all cases, at replacement of mechanical parts or the video head.

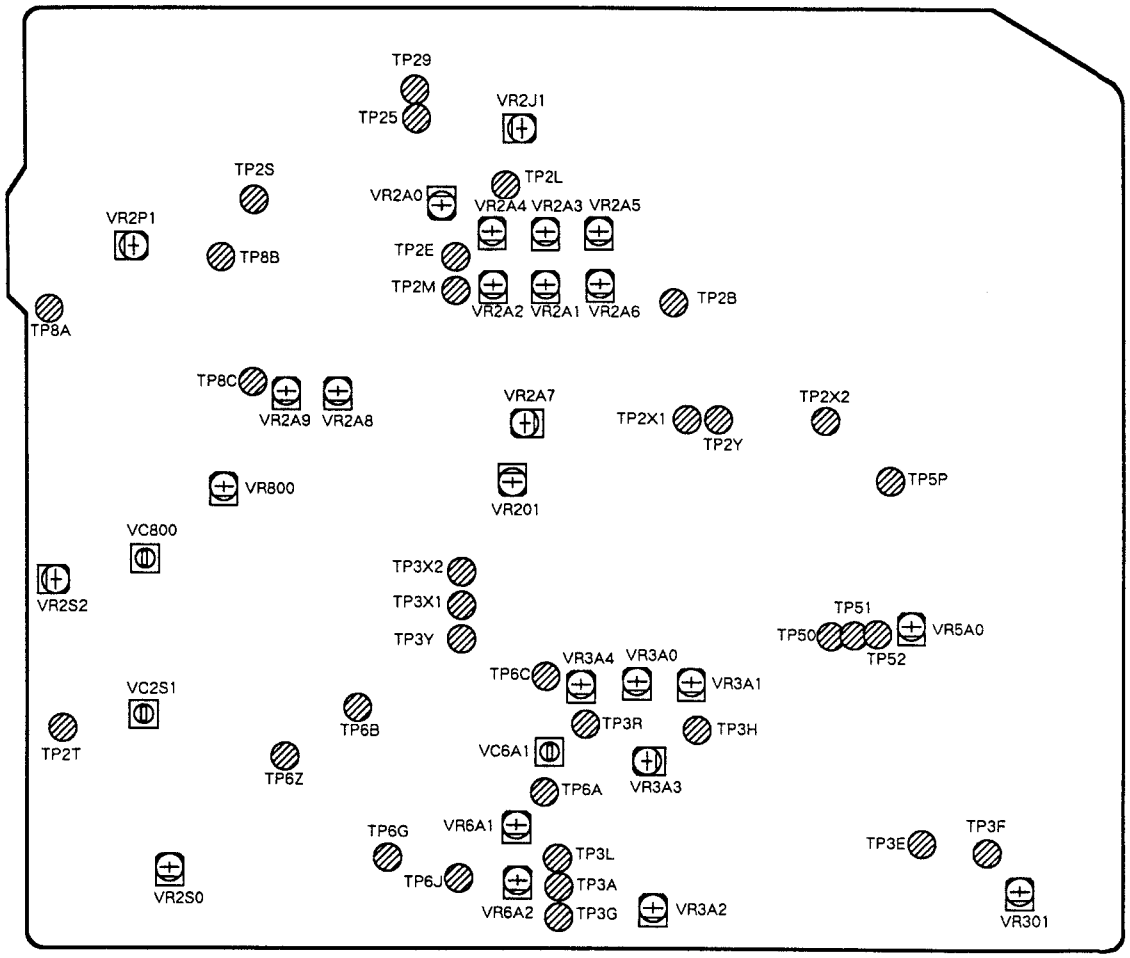
Should the electrical circuit is defective, first locate the defective part using appropriate instrument and repair or replace; and then conduct adjustments.

Do not fiddle about adjuster controls without verifying the cause of trouble.

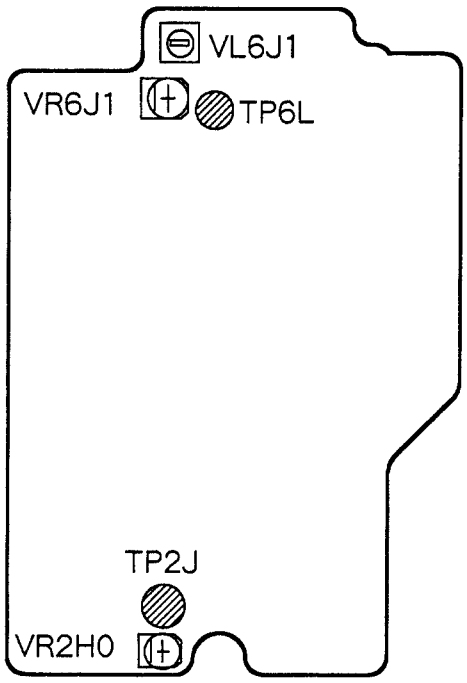
A repairing service will not require all of the adjustments. When adjusting, first find necessary adjustment, and then proceed in the order specified.

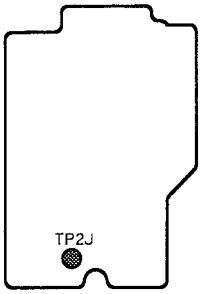
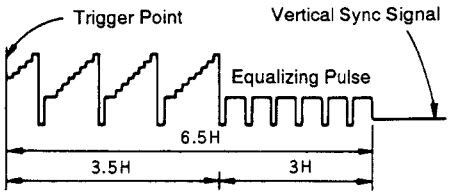
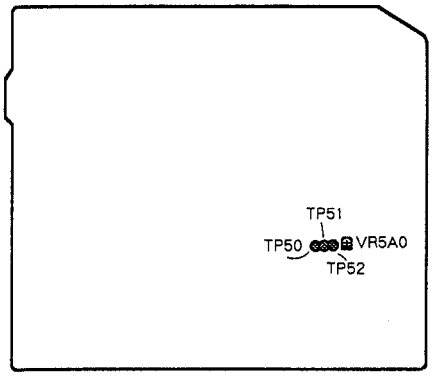
3. Location of Adjustment Points (VCR Section)

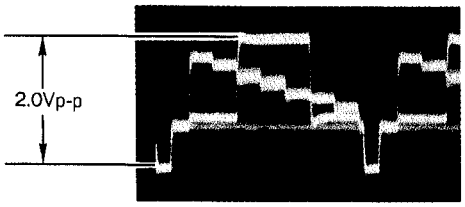
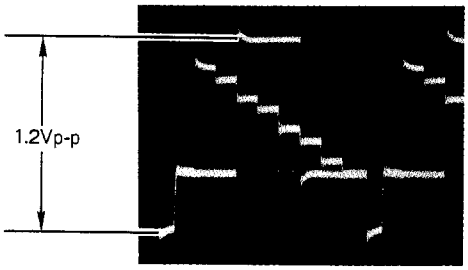
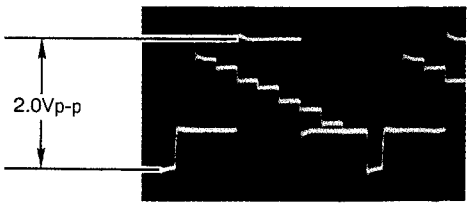
PCB VTR(A SIDE)



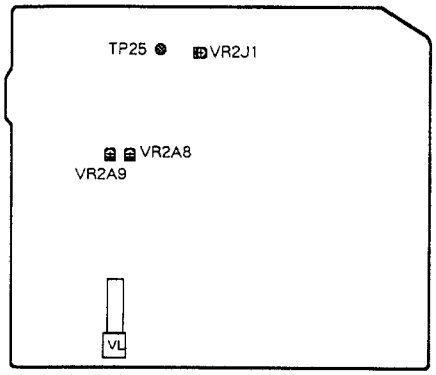
PCB JACK(COMPONENT SIDE)

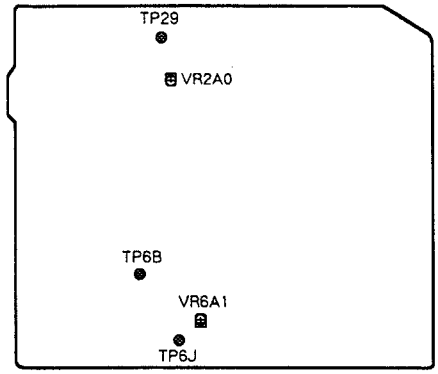
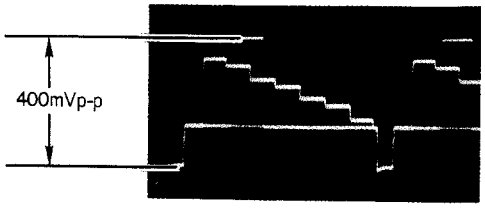
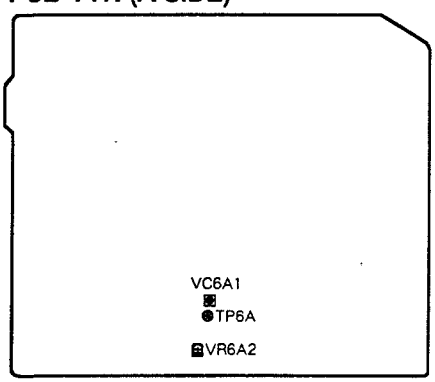
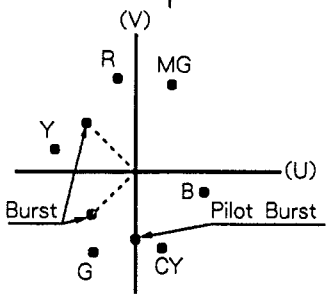
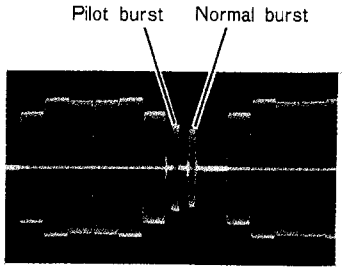


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Power Circuit	
1	5V supply		Digital Voltmeter	Apply 6.0 ± 0.1V_{DC} from the constant power source to PR connector. (Pin 1: +6V, pin 2:GND) Connect the positive probe of digital voltmenter to IC4A0 pin 11, negative to negative lead of C425. Adjust VR901 for 5.00 ± 0.03V reading.
			Servo Circuit	
2	Playback switching point **PCB JACK (COMPONENT SIDE)** 	Alignment tape Staircase	Oscilloscope to TP2J Synchronizing slope (-) DIV 50mV TIM 50 μsec. (10:1)	With trigger portion displayed at left hand on the scope. Join together TP51 and TP52. External synchronizing with TP50. Adjust VR5A0 to 6.5H ± 1.0H. 
	PCB VTR (A SIDE) 		Synchronizing slope (+)	It is checked that image output is 6.5H ± 1.0H.
3	Still slow circuit	LP REC Still		Adjust VR2X1 (Still Adj.) so that the horizontal line is interlaced.

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Y/C Signal Circuit	
4	Playback demo dulation sensitivi-ty and play back level	VHS alignment tape (colour bar)	Oscilloscope to VL connector pin ② DIV 50mV TIM 10μsec. (10:1)	Adjust VR2A8 so that the demodulation signal becomes 2.0V_{P-P} (Note). 
		S-VHS alignment tape (colour bar)	Oscilloscope to TP25 DIV 20mV TIM 10μsec. (10:1)	Adjust VR2A9 so that the demodulation signal becomes 1.2V_{P-P} (Note). 
			Oscilloscope to VL connector pin ② DIV 50mV TIM 10μsec. (10:1)	Open S-VIDEO OUT terminal. Adjust VR2J1 so that the demodulation signal becomes 2.0V_{P-P}. 
				(Note) Adjust first lower the signal amplitude and then increase for 2.0V_{P-P}.

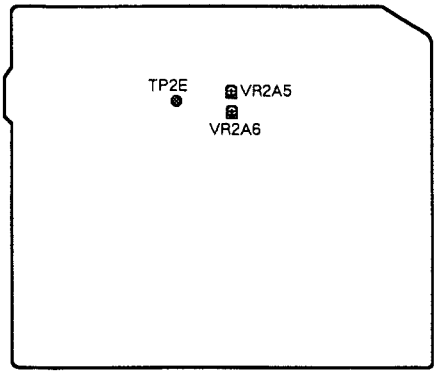
PCB VTR (A SIDE)

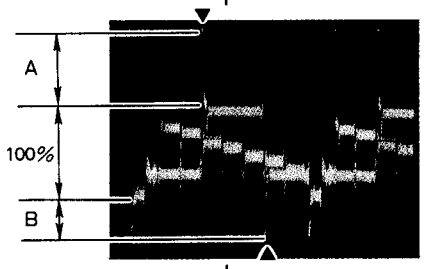


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
5	Sub-emphasis input level **PCB VTR (A SIDE)**  	SP REC (colour bar) S-VHS mode	Oscilloscope to TP29 DIV 10mV TIM 10 μ sec. (10:1)	Adjust VR2A0 so that the video signal is $400mV_{P-P}$. 
6	Chroma AFC	REC PAUSE mode (No signal)	Frequency counter to TP6B	Apply ground to TP6J. Adjust VR6A1 for 625 $\pm$ 5kHz at the TP6B.
7	Pilot burst phase and amplitude **PCB VTR (A SIDE)**  	SP REC (colour bar) S-VHS mode  	Vectorscope to TP6A Oscilloscope to TP6A DIV 20mV TIM 10 μsec. Oscilloscope's Trigger to TP2S (10:1)	Join together TP6C and TP6G. Observe the vectorscope to TP6A. Connect TP6J to ϕ REF to lock phase. Adjust the vectorscope to bring the burst spot to the specified place. Adjust VC6A1 so that burst phase is +270° with respect to U-axis. Adjust VR6A2 so that the pilot burst is 110% the burst in amplitude. 

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
8	White clip Dark clip	SP REC (colour bar) S-VHS mode	Oscilloscope to TP2E DIV 10mV TIM 10 μ sec. (10:1)	Adjust VR2A5 so that the pulse extending to region A shown in the figure (white peak side) is 110% the standard video signal amplitude. Adjust VR2A6 so that the overshoot pulse at region B shown in the figure (sync tip side) is 70% the standard video signal amplitude.

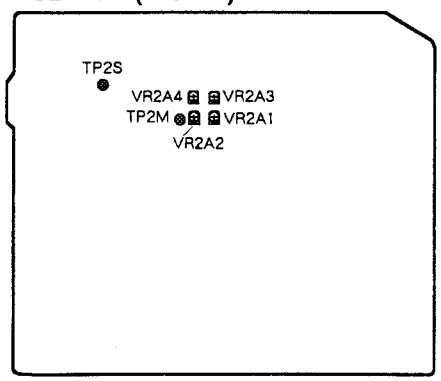
PCB VTR (A SIDE)



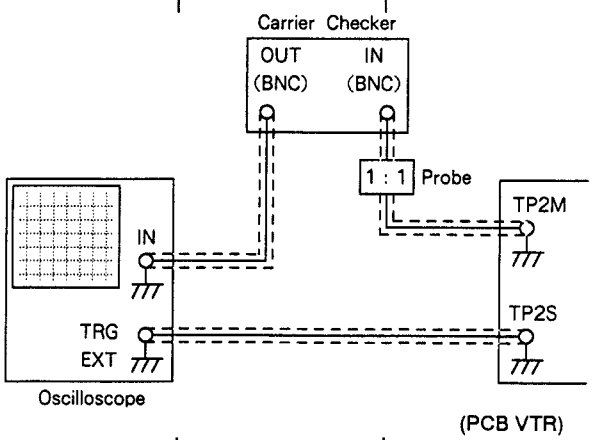


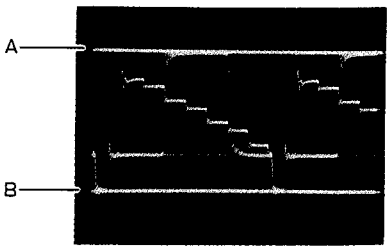
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
9	Carrier set deviation	SP REC (colour bar) S-VHS mode Normal VHS mode	Oscilloscope to TP2M via carrier checker DIV 0.2V TIM10 μ sec. (1:1)	Adjust VR2A1 (FM.DEV.SET) and VR2A2 (FM.CAR.SET) so that sync tip frequency is 5.4 MHz and white peak frequency is 7.0MHz. Adjust VR2A3 (FM.DEV.SET) and VR2A4 (FM.CAR.SET) so that sync tip frequency is 3.8MHz and white peak frequency is 4.8MHz.

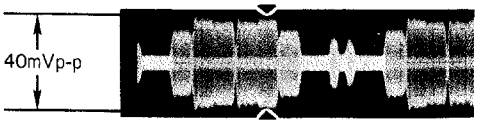
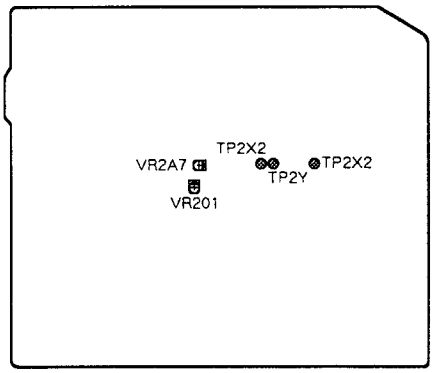
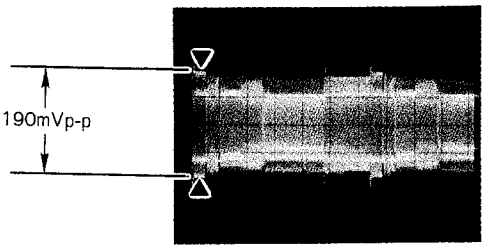
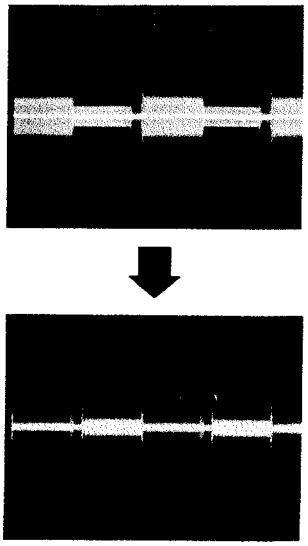
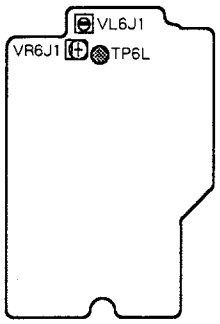
PCB VTR (A SIDE)

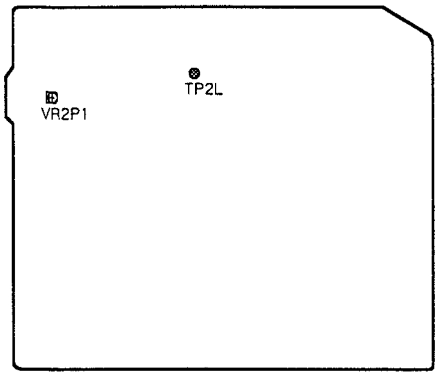
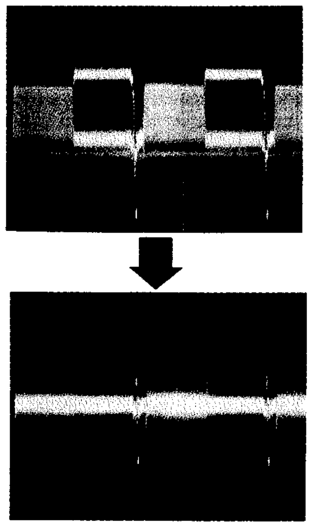
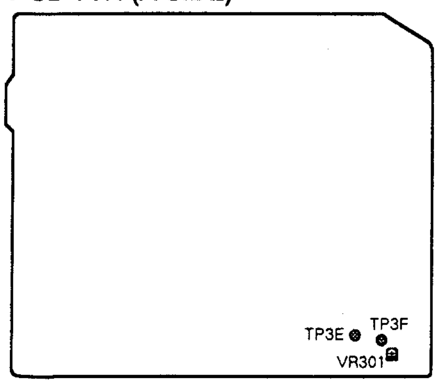


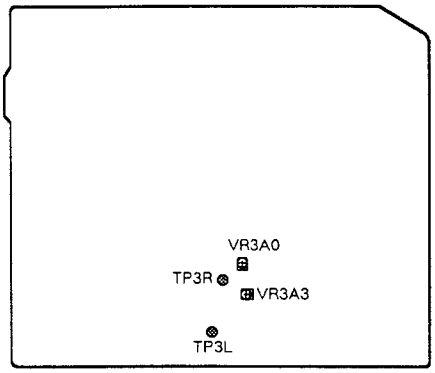
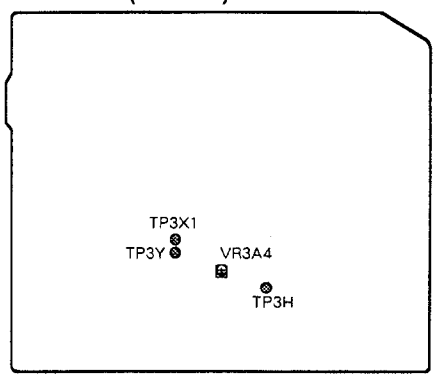
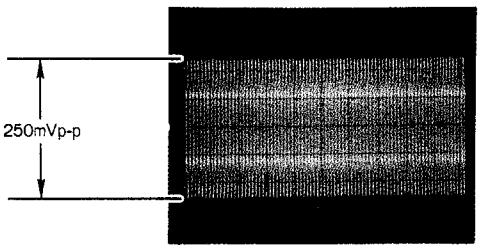
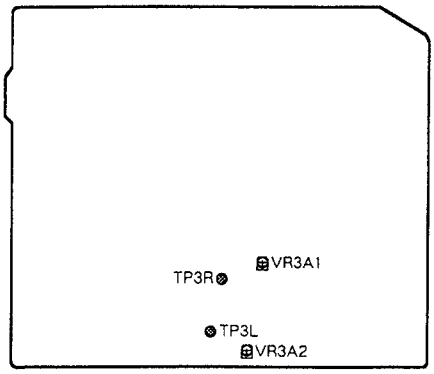
	S-VHS mode	Normal VHS mode
Deviation line (A)	7.0MHz	4.8MHz
Sync-tip line (B)	5.4MHz	3.8MHz



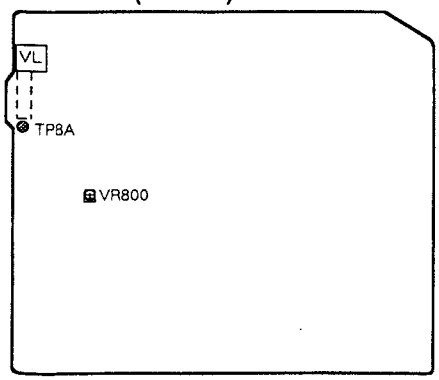


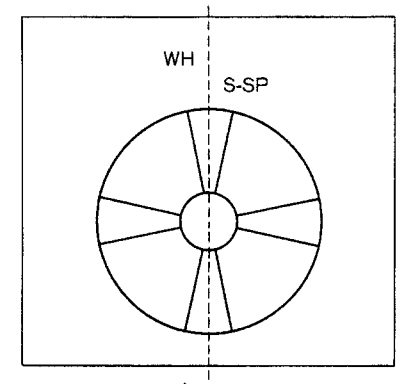
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
10	Y/C recording level	LP REC (colour bar) S-VHS mode	Oscilloscope to TP2Y DIV 10mV TIM 10μsec. (1:1)	Connect 0.1μF capacitor between TP2X1 AND TP2X2. Turn VR2A7 counterclockwise to minimize FM recording signal. Adjust VR201 so that red chroma recording signal is 40mV$_{P-P}$. 
	PCB VTR (A SIDE) 		(10:1)	Adjust VR2A7 so that FM recording signal is 190mV$_{P-P}$. at the sync signal. 
11	Chroma signal noise reduction	S-VHS alignment tape (colour bar)	Oscilloscope to TP6L(PCB JACK) DIV 5mV TIM 2msec. (10:1)	Alternately adjust VR6J1 (PCB JACK) and VL6J1 (PCB JACK) to minimize leaking signal.  **Note:** Leaking signal must be 50mV$_{P-P}$ or below.
	PCB JACK (COMPONENT SIDE) 			

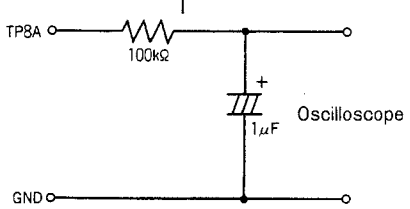
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
12	Y signal noise reduction **PCB VTR (A SIDE)** 	VHS alignment tape (colour bar)	Oscilloscope to TP2L DIV 20mV TIM 2msec. (10:1)	Adjust VR2P1 for minimized video signal amplitude. 
Normal Audio Circuit				
Set the audio monitor to normal mode from the setting screen.				
13	Bias level **PCB VTR (A SIDE)** 	SP REC	AC Voltmeter to TP3E and TP3F (Probe with high pass filter)	Short electrolytic capacitor (10μF, 16V min. and more) between ground and EXT MIC. IN terminals (L, R) . Check that radiation from monitor TV will not interfere AC Voltmeter. Adjust VR301 for 2.1mVrms reading. Note: Do not allow AC Voltmeter to come in contact with VTR chassis. Note: Do not set the VTR to playback mode while the AC Voltmeter is connected. (Excessive input is applied to the play-back amp.)

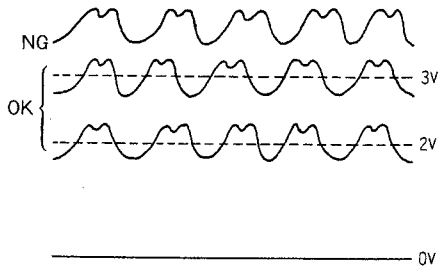
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Hi-Fi Audio Circuit	
			Set the audio monitor to Hi-Fi mode from the setting screen.	
14	OSC Frequency	SP REC mode	Frequency counter to TP3L Frequency counter to TP3R	Short electrolytic capacitor (10 μF, 16V min. and more) between ground and EXT MIC. IN terminals (L, B) . Adjust VR3A3 so that frequency is 1.400MHz Adjust VR3A0 so that frequency is 1.800MHz
	PCB VTR (A SIDE)			
				
15	FM recording current	SP REC (VHS)	Oscilloscope to TP3Y DIV 5mV TIM 20 μsec. Oscilloscope's trigger to TP3H (10:1)	Short electrolytic capacitor (10 μF, 16V min. and more) between ground and EXT MIC. IN terminals (L, B). Connect the GND probe of the scope to TP3X1 through a 0.1 μF capacitor. Adjust VR3A4 for 250mV$_{P-P}$ amplitude.
	PCB VTR (A SIDE)			
				
16	FM frequency deviation	SP REC	Carrier checker to TP3L Carrier checker to TP3R	Feed EXT MIC. IN terminals (L, B) with 1kHz, -20dBs signal. Adjust VR3A2 so that frequency deviation of channel L is within ± 50kHz. Adjust VR3A1 so that frequency deviation of channel R is within ± 50kHz.
	PCB VTR (A SIDE)			
				

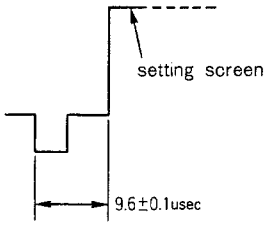
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Operation Circuit	
17	Image centering	Stop mode Monoscope	EVF	Press the title memory button for more than one second to memorize the monoscope. Press the title on/off button to generate white title. While observing EVF, adjust VC800 so that the mode display "WH" and "S" are centred on the monoscope screen.
18	Battery detection circuit	Stop mode power off (cassette in condition)	Digital Voltmeter	Connect PR connector of the PCB POWER to ana djustable regulated power source (3A min. and more) : 5.5 ±0.03V to pin ①, GND to pin ②.
	PCB VTR (A SIDE)		Oscilloscope to TP8A (with low-pass filter) DC mode DIV 50mV TIM 50 μ sec. (10:1)	Join together pins ③ and ⑦ of the VJ connector. Adjust VR800 so that entire or part of waveform is between 2 and 3 volts.



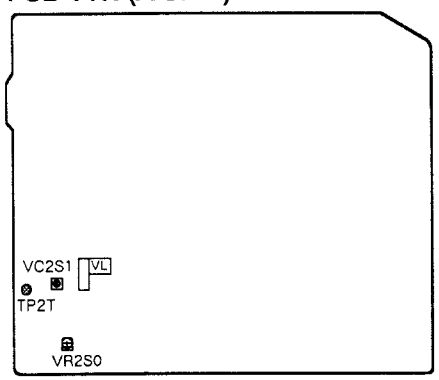




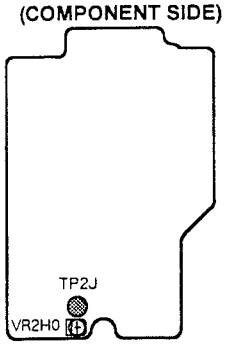


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
			Telop Circuit	
			* Before adjusting, verify that signal circuits are satisfactorily operating. * Apply colour bar to VP connector from the video signal input tool.	
19	PLL	Setting mode	Digital Voltmeter to TP2T	Adjust VC2S1 for 1.6 ± 0.1V reading.
20	HD delay circuit	Setting mode	Oscilloscope to VL connector pin ② Synchronizing slope (-) DIV 20mV TIM 2 μ sec. (10:1)	Adjust VR2S0 so that the width between the falling edge of H.SYNC signal and rising edge of setting screen is 9.6 ± 0.1 μ sec. 
21	Title hue	Stop mode (colour bar) S-VHS alignment tape (colour bar)	Vectorscope to VL connector pin ② Vectorscope to TP2J (PCB JACK)	Press the title on/off button. Press the title memory button for more than 1 second. Press the feed/colour button to change white title to colour title. Adjust VR2S2 so that title colour change to yellow. Adjust VR2HO (PCB JACK) so that the hue of the title is yellow during playback. **Note:** If the vector spot is jittering, adjust at the centre of the spot.

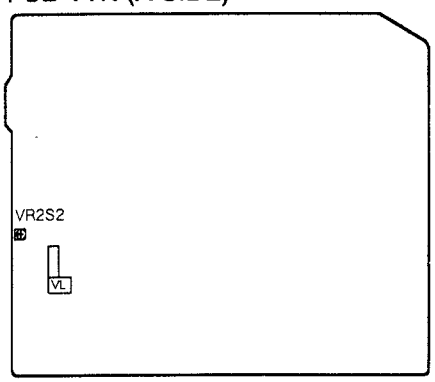
PCB VTR (A SIDE)



PCB JACK (COMPONENT SIDE)



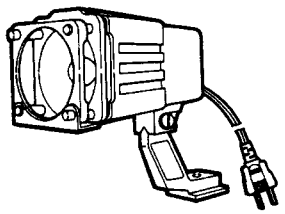
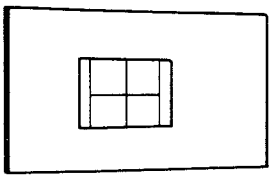
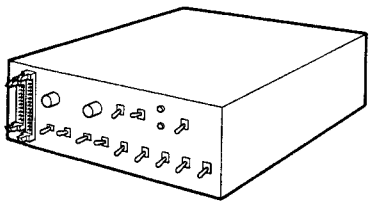
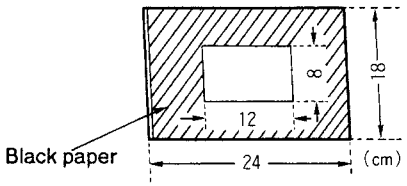
PCB VTR (A SIDE)



CAMERA UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Adjustment of Camera Unit

1-1. Jigs for Adjustment

Halogen light (3000 ± 50° K)	Colour temperature conversion filter (49mm)	Colour chart 859C39704 Reflection type
	 C2 .....859C36108 (2 sheets are required) C12 .....859C36107	
Y/C MIX Adapter	Window chart (Please prepare)	
	 Make a hole of 12 × 8 (cm) at the centre of corrugated cardboard, and attach a sheet of black paper of low reflection to the whole surface.	

1-2. Other Measuring Instruments Required

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

2. Preparation before Adjustment and Check Items

2-1. Prior to Adjustment

Most of electrical/electronic part replacements require adjustment.
Should the electrical circuit is defective, first locate the defective part using appropriate instrument and repair or replace; and then conduct adjustments. Do not fiddle about adjuster controls without verifying the cause of trouble.
A repairing service will not require all of the adjustments. When adjusting, first find necessary adjustment, and then proceed in the order specified.

2-2. Preparation and Check Items

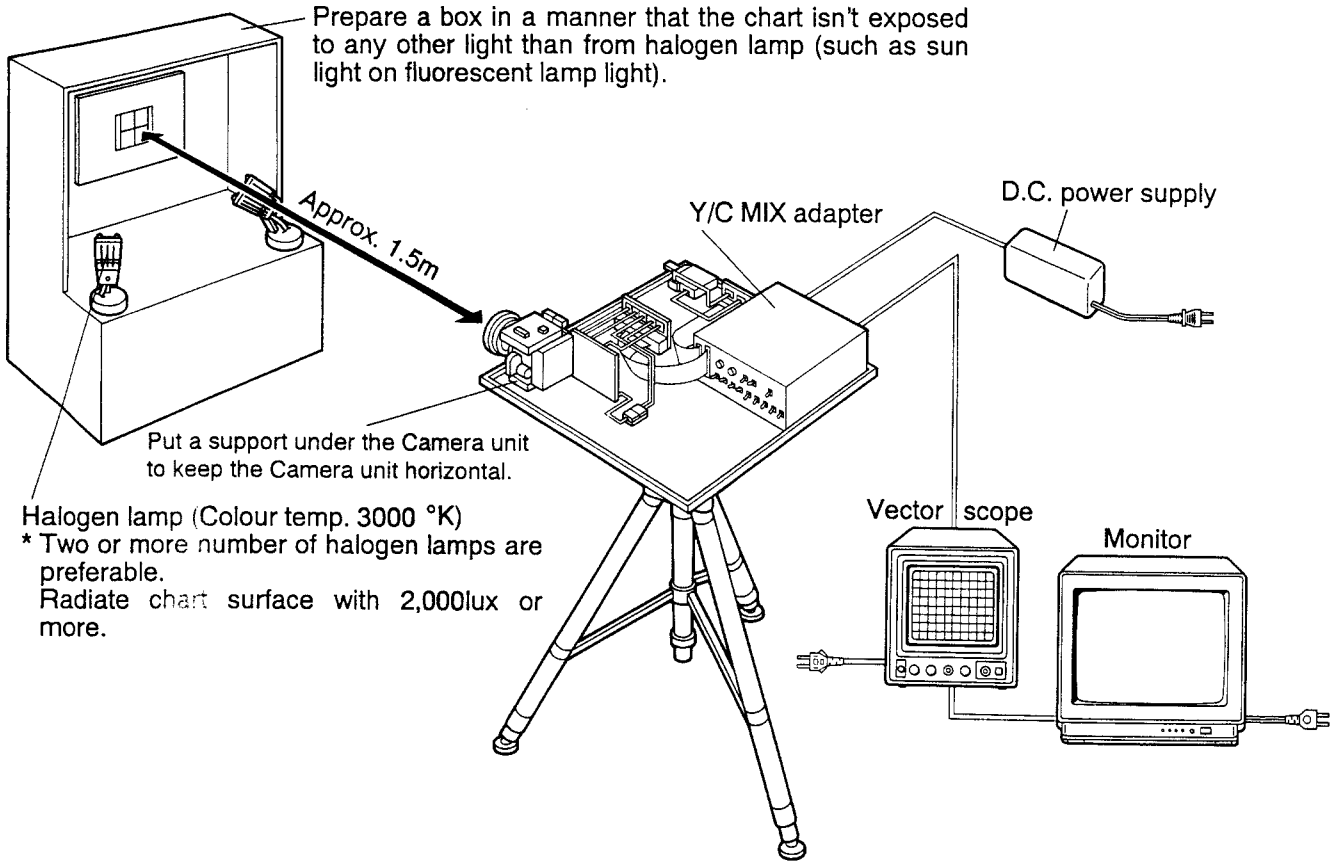
1. Unless otherwise indicated in particular, set the camera unit at the following mode at the time of adjustment.

Shutter	Standard (1/60sec.)
Focus	Manual (Just in focus)
Special effect	OFF
Inverse photoelectric correction	OFF
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 2,000lux 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. During camera adjustment do not use extension cable (exposure of PCB) as long as possible.
4. The stand off between camera and object is 1.5mm, otherwise specified.
5. Make sure that the pins of [ES] connector have following voltage.

Pin No.	①	③	⑤	⑥
Voltage	5.5~7.0V	4.97V	15.0V	-9.0V

3. Standard Connection of Camera Unit at Adjustment



4. Camera Unit Adjustment Procedure

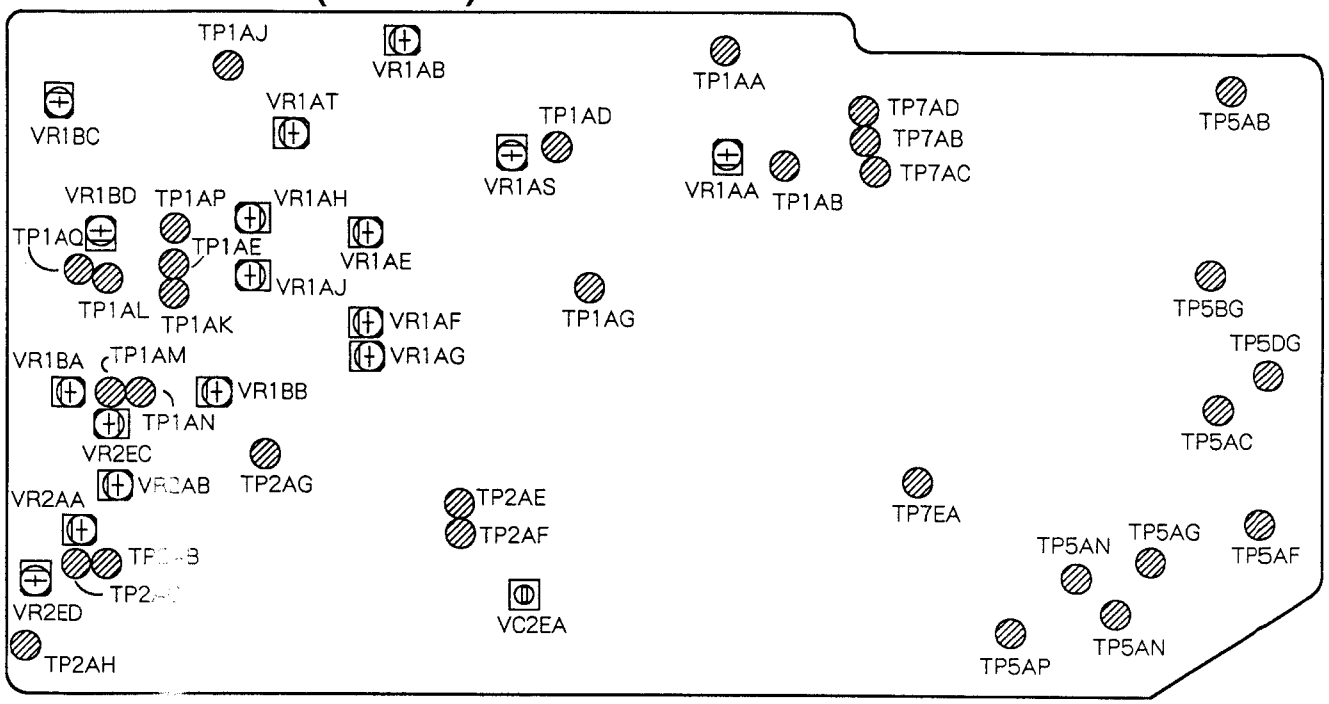
The following adjustment procedure is in the order required for adjusting all the potentiometers of the camera unit.
Some items, therefore, need not be adjusted depending on kind of repair. Perform adjustment of the required items only according to kind of servicing.

Electrical Adjustment

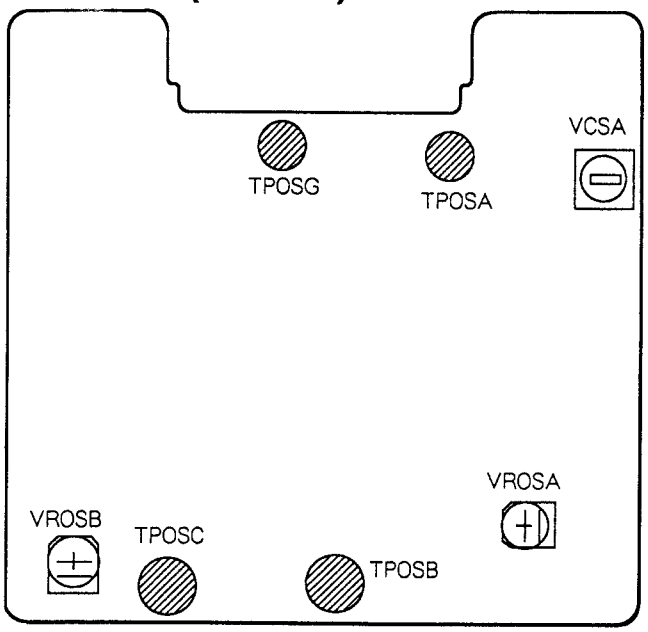
Sensor drive	1.	Adjustment of 28MHz
Y/C system	2.	Reset gate voltage, Substrate voltage adjustment
Y system	3.	OB offset adjustment
	4.	ALC (Iris) adjustment
	5.	1HCCD (Y system) adjustment
	6.	APL adjustment
Optical system	7.	Phototransistor reset position adjustment
Chroma system	8.	1HCCD (chroma system) adjustment
	9.	R-Y, B-Y offset adjustment
	10.	C (Carrier) offset adjustment
	11.	White balance adjustment
	12.	Burst level adjustment
	13.	R-Y gain adjustment
	14.	B-Y gain adjustment
	15.	Chroma phase adjustment

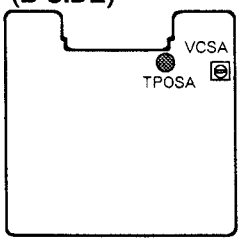
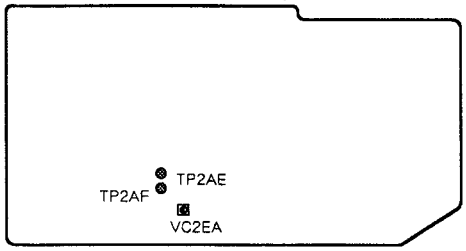
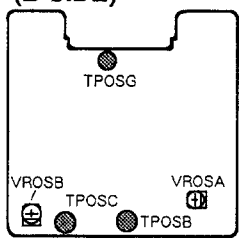
5. Location of Adjustment Points (Camera Section)

PCB CAMERA (B SIDE)



PCB SC (B SIDE)



No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
1	28MHz **PCB SC (B SIDE)**  		Frequency counter to TPOSA	Adjust VCSA so that frequency is 28.375000MHz ± 60Hz.
2	4fsc **PCB CAMERA (B SIDE)**  		Frequency counter to TP2AF	Apply a 3.0V_{DC} to TP2AE and adjust VC2EA so that the frequency is 17.734475MHz ± 30Hz.
3	Reset the gate clock voltage (VRGL), Sub-strate voltage (VSUB) **PCB SC (B SIDE)**  ◎ Indication of Substrate voltage (VSUB) and reset gate clock voltage (VRGL) setting values VSUB symbol - 1 digit VRGL symbol - 1 digit These symbols represent the value shown next page.		Oscilloscope to TPOSB Oscilloscope to TPOSC	1. Connect TPOSB(PCB SD) to the oscillo - scope. 2. Using VROSA(VRGL), set DC voltage to the value represented by the symbol on the rear surface of the image sensor(ICOSF). (To the value shown in the figure left ± 0.1V.) 3. Connect TPOSC(PCB SD) to the digital volt - meter. 4. Using VROSB(VSUB), set DC voltage to the value represented by the symbol on the rear surface of the image sensor(ICOSF). (To the value shown in the figure right ± 0.1V.)

No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
4				

VRGL symbol	0	1	2	3	4	5	6	7	8	9
Actual value	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0

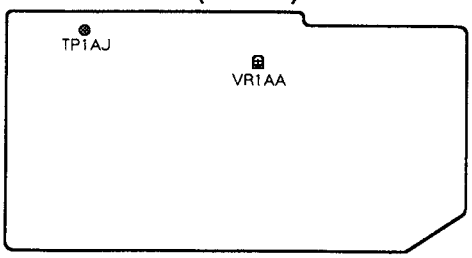
VSUB symbol	E	f	G	h	J	K	L	m	N	P
Actual value	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5

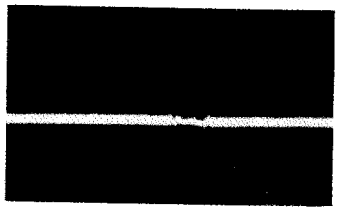
Q	R	S	T	U	V	W	X	Y	Z
14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5

<Example> "5L" represents the setting value of 3.0V for VRGL and 12.0V for VSUB.

5	OB OFFSET	Cap the lens	Oscilloscope to TP1 AJ via LPF DIV 5mV TIM 10 μ sec. (10:1)	Observe TP1AJ with an oscilloscope through LPF jig. Adjust VR1AA to the minimum offset.

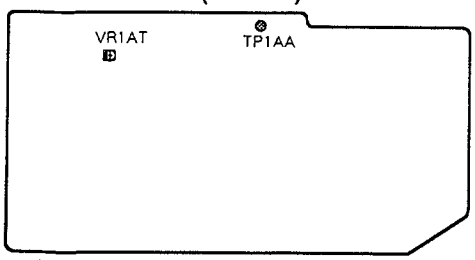
PCB CAMERA (B SIDE)

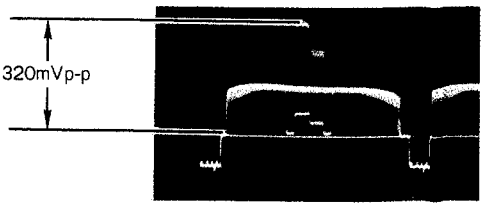




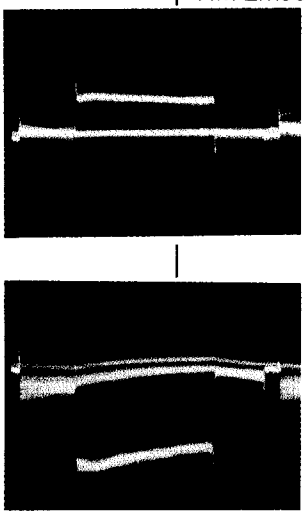
6	ALC	Colour chart (standard angle)	Oscilloscope to TP1 AA via LPF DIV 10mV TIM 10 μ sec. (10:1)	Observe TP1AA with an oscilloscope through LPF jig. Adjust VR1AT so that the level of peak white comes to 320 $\pm$ 20mV$_{P-P}$.

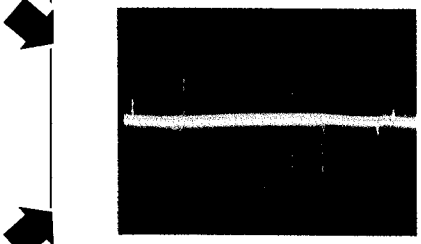
PCB CAMERA (B SIDE)



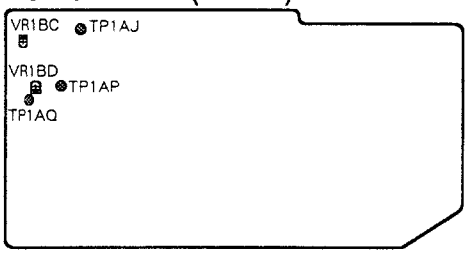


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
7	1HCCD (Luminance)	Window chart (standard angle)	Oscilloscope's CH1 to TP1AJ CH2 to TP1AP (10:1) DIV 10mV TIM 2msec.	Subtract TP1AP output from TP1AJ output on the scope and adjust VR1BC for minimized difference between both outputs.
			Oscilloscope's CH1 to TP1AJ CH2 to TP1AQ (10:1) DIV 10mV TIM 2msec.	Subtract TP1AQ output from TP1AJ output on the scope and adjust VR1BD for minimized difference between both outputs.
8	APL	Colour chart (standard angle)	Oscilloscope to TP2AB DIV 10mV TIM 10 μsec. (10:1)	Observe TP2AB with an oscilloscope through LPF jig. Adjust VR1AB so that the back ground level is at 380 ± 20mV$_{P-P}$.

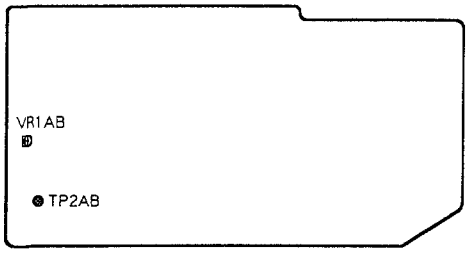


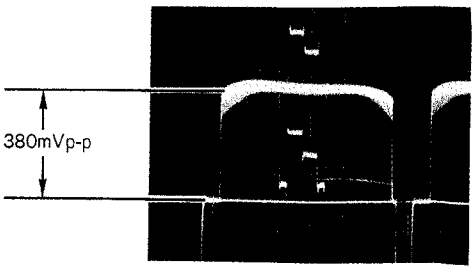


PCB CAMERA (B SIDE)

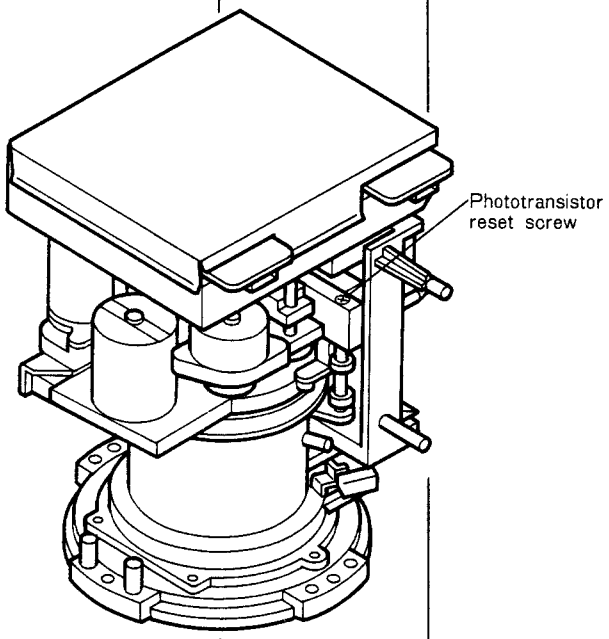


PCB CAMERA (B SIDE)

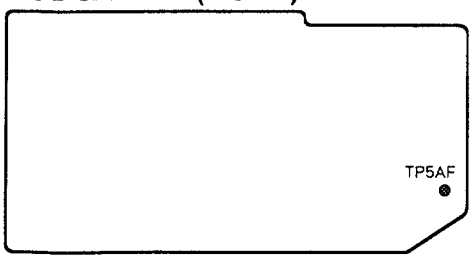


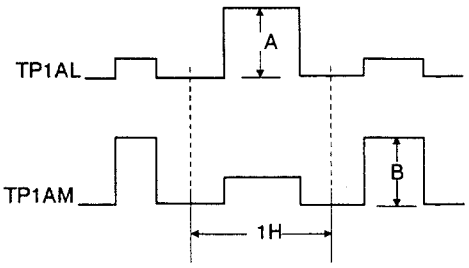
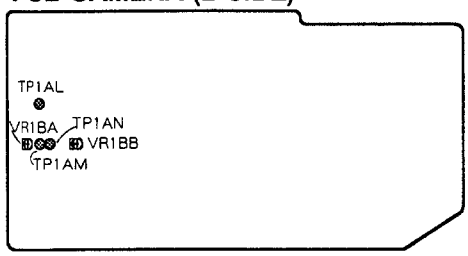
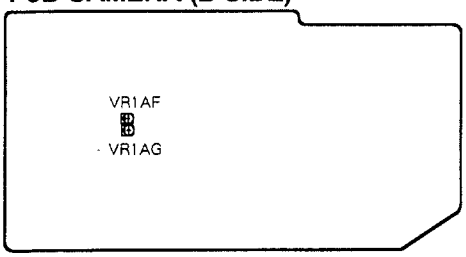


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
9	Phototransistor reset position		Digital Voltmeter to TP5AF Y/C MIX ADP.	Turn the phototransistor reset position adjuster screw on the lens body counterclockwise 1/2 of full turn. Set AF of Y/C MIX ADP. to manual mode. Focus on an object placed at a distance of 10m and more. Press FOCUS DISTANCE switch of Y/C MIX ADP. 47 times toward (-), stepping the pulse motor 47 times. **Note:** The pulse motor may travel 2 steps on a single press. Carefully watch the movement while pressing the switch. While reading the digital voltmeter, adjust the phototransistor reset position adjuister screw for 2.7 ± 0.1V.

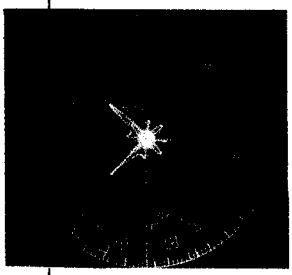


PCB CAMERA (B SIDE)

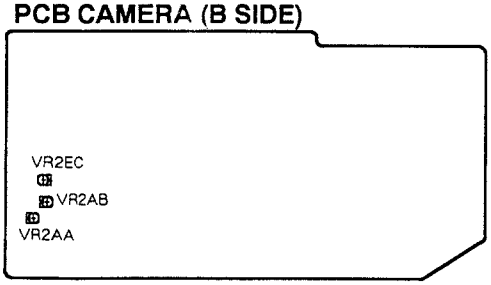


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
10	1HCCD (Chroma)	Window chart (standard angle)	Oscilloscope's CH1 to TP1AL CH2 to TP1AM DIV 5mV TIM 20msec. (10:1)	Manually shift white balance to make the screen coloured. Observe TP1AL and TP1AM outputs on the oscilloscope and then adjust VR1BA for the amplitude of part A and B becomes equal. 
	PCB CAMERA (B SIDE) 		Oscilloscope's CH1 to TP1AL CH2 to TP1AN DIV 5mV TIM 20msec. (10:1)	Subtract TP1AN output from TP1AL output on the scope and adjust VR1BB for minimized difference between both outputs.
11	R-Y, B-Y OFFSET	Cap the lens	Vectorscope to VIDEO OUT socket GAIN: Max.	Connect ground to TP1AE through a 100 μF nonpolar capacitor. Adjust VR1AF and VR1AG so that the bright point comes to the centre. Take off 100 μ F capacitor.
	PCB CAMERA (B SIDE) 			

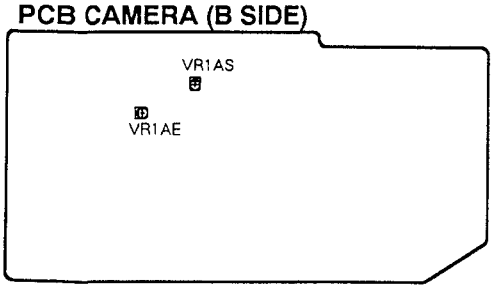
No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
12	Burst signal	Cap the lens	Vectorscope to VIDEO OUT socket STATE: 75% GAIN: standard	Adjust VR2EC so that the phase difference between two burst signals is 90 °. Adjust VR2AA for 75% spot intensity. If both spots are not at the same intensity, set to the average of the both. If the phase difference of burst signals be - comes out of 90° as the result of adjustment, readjust VR2EC and VR2AA.
		Colour chart (standard angle)		Set the vectorscope to NTSC mode. Adjust phase on the vectorscope to overlap the burst signals. Adjust VR2AB so that red spots become one spot.
13	C. OFFSET $f_H/2$ OFFSET	Cap the lens	Vectorscope to VIDEO OUT socket GAIN: Max.	This adjustment must follow R -Y and B -Y OFFSET adjustment. Centre the spot using VR1AE and VR1AS.



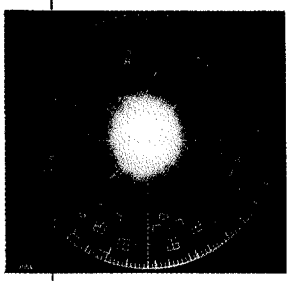
PCB CAMERA (B SIDE)



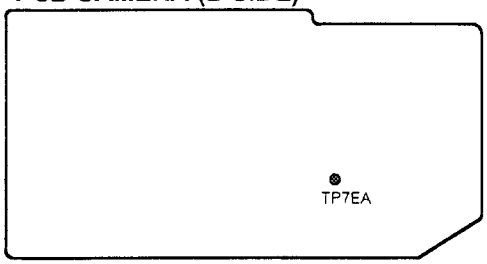
PCB CAMERA (B SIDE)

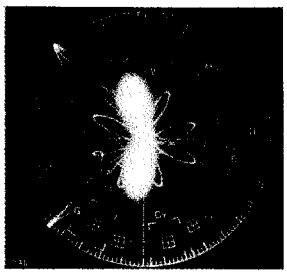


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
14	Indoor white balance	White chart (standard angle)	Vectorscope to VIDEO OUT socket GAIN: Max.	Apply ground to TP7EA. Set DATA switch of Y/C MIX to INDOOR. Set EEPROM switch to WRITE position. Centre the spot using VRP57 and VRP58 on the Y/C MIX.
	Outdoor white balance	White chart (standard angle) lens←C4+C12		Follow the above steps. Set DATA switch to OUTDOOR position. Adjust the spot like the picture using VRP57 and VRP58. Set EEPROM switch to OFF position. Disconnect TP7EA.
15	R-Y gain	Colour chart (standard angle)	Vectorscope to VIDEO OUT socket GAIN: standard	Set white balance to indoor. Adjust VR1AH so that the distance between the red spot and the scope screen centre is 1.1 times that of burst spot and the centre.

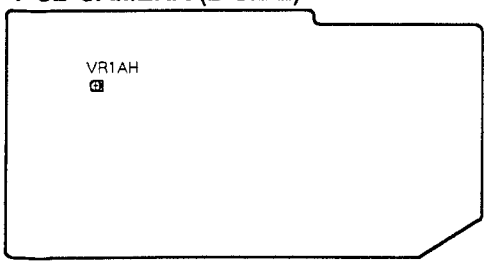


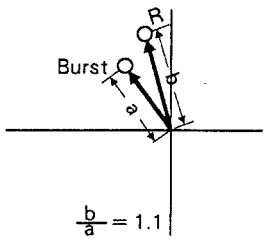
PCB CAMERA (B SIDE)

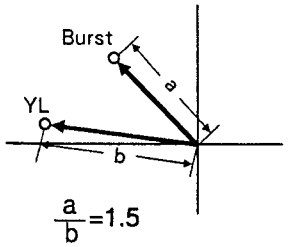
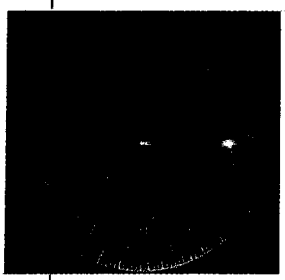




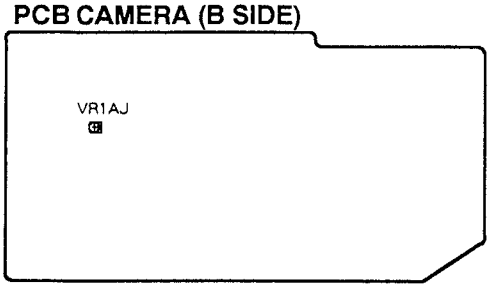
PCB CAMERA (B SIDE)



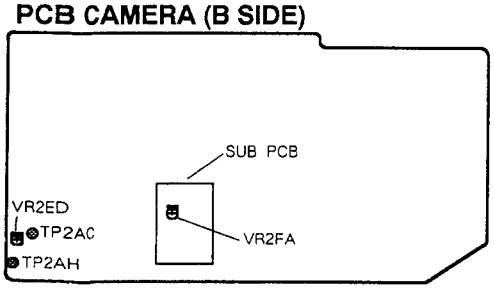


No.	ITEM	MODE	ADJ. METHOD	ADJUSTMENT PROCEDURE
16	B-Y gain	Colour chart (standard angle)	Vectorscope to VIDEO OUT socket GAIN: standard  $\frac{a}{b}=1.5$	This adjustment must follow the R-Y gain adjustment. Adjust VR1AJ so that the distance between the yellow spot and the scope screen centre is 1.5 times that of burst spot and the centre. Repeat this and R-Y gain adjutment until both distances specified are obtained . Connect EXT trigger terminal of the vectorscope to the Video out for synchronization. Observe the oscilloscope to TP2AC.
17	VTR SC	Cap the lens	Oscilloscope to TP2AC Oscilkloscope's trigger to VIDEO OUT socket Vectorscope to Oscilloscope's OUTPUT terminal 	Connect the oscilloscope output to the vectorscope. Adjust the vectorscope so that the phase of the burst signal at the correct phase on the vectorscope. Observe the oscilloscope to TP2AH and adjust VR2FA so that the signal amplitude on the oscilloscope is 500 ± 20mV$_{P-P}$. Observing the oscilloscope output on the vectorscope, adjust VR2ED so that the burst signal phase is at 0 ± 2 °.

PCB CAMERA (B SIDE)



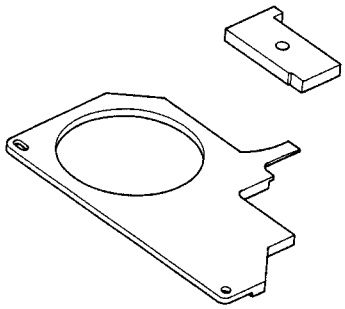
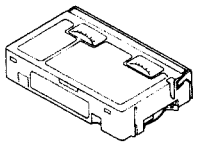
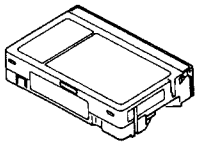
PCB CAMERA (B SIDE)



MECHANICAL ADJUSTMENT

1. Jigs and Measuring Instruments Required for Mechanism Adjustment

1-1. Jigs for Adjustment

Master plane	Cassette torque meter	Alignment tape [PM6KE2CS, PMX－C, PM3KE6(CH1)C35]
859C398050	859C360010	
		

1-2. Other Tools and Measuring Instruments Required

① Colour monitor (Colour TV)
② Oscilloscope
③ Hex key (1.5mm, 0.7mm)
④ Box driver (4.5mm)

2. CLEANING

The following parts should be cleaned as aroutine work of service or maintenanceactivity for keeping top perfomance.

2-1 Cleaning the video head

① Deposits of dust and similar foreignmaterial on the head cause the head to fail to reproduce clear image. Put a video head cleaning cloth damped with cleaning solution lightly against the drum. Holding the cloth, gradually rotate the drum counterclockwise.

Note:

Do not touch the head tip attached to the upper drum. The head tip is very hard but not resistant against impact (particularly against force invertical direction). Never move the head tip in vertical direction.

② Do not run tape before the drum is full dry. Residual solution may damage the tape.

2-2 Cleaning the tape path system

Below shows the parts along the tape path,which need cleaning.

1. Regulator tension pole
2. Supply slant pole
3. Supply impedance pole
4. Supply tape guide pole
5. Supply guide roller
7. Takeup guide roller
8. Takeup impedance roller
9. Takeup tape guide pole
10. Takeup slant pole
11. Takeup guide arm roller
12. A/C head
13. GR-lever roller
14. Capstan motor shaft
15. Pinch roller

Note:

Use dry cleaning cloth for cleaning the supply guide roller and takeup guide roller. Do not use cleaning solution.

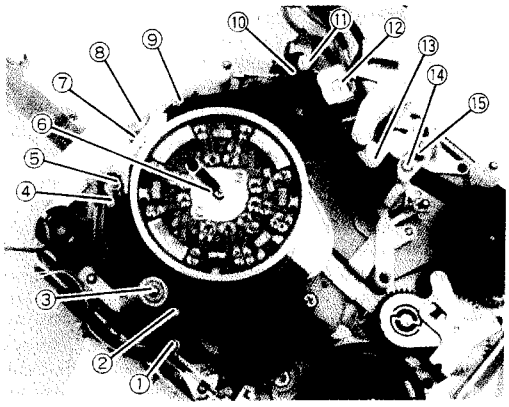


Fig. 1-1-1

2-3 Cleaning the reel disk driving system

① Clean the surface of the brake of the reel disk.

② Clean the reel disk drive member with a cleaning cloth damped with the cleaning solution.

③ Do not operate the mechanism before cleaned parts dry up.

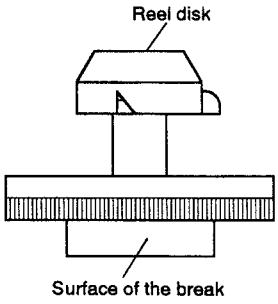


Fig. 1-1-2

3. HOW TO ATTACH THE MASTER PLANE

① Remove the cassette housing (see para. 4-1, HOW TO REPLACE THE PRINCIPAL PARTS)

② Feed the loading motor with approx. 3.5 VDC and put the deck to loading condition.

③ Place the master plane on the main plate so that the positioning pin enters the positioning hole and the plane is off the drums.

Note:

When using the master plane, firmly hold it by pressing at the point A as shown in Fig. 2-1.

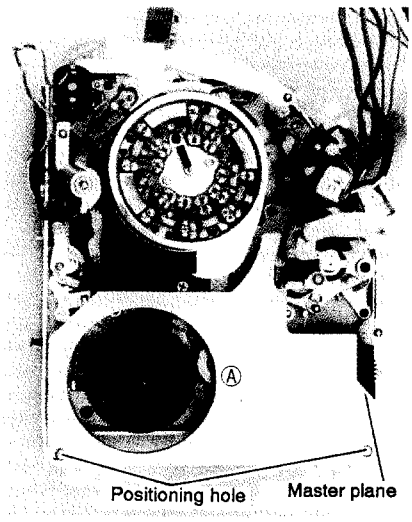


Fig. 2-1

4. HOW TO REPLACE THE PRINCIPAL PARTS

4-1 Cassette housing replacement

Dismounting

① Set the cassette housing to eject mode.
② Remove two screws (ⓐ, ⓑ) holding the leaf switch.
③ Remove two screws (ⓒ, ⓓ)holding the cassette housing.
④ Slide the cassette housing toward you. Push the link on supply side and takeup side (Fig.3-1-3 and 3-1-4) slightly to make clearance for the roller ; and remove the rollers from the grooves in the main plate. Remove the cassette housing.

Mounting

① Set the cassette housing to eject mode.
② Push the link on supply side and takeup side (Figs. 3 -1 -3 and 3 -1 -4) slightly to make clearance for the roller; and insert the rollers into the grooves. Make sure that the sink shaft is under the fixing part of the leaf switch (see Fig. 3-1-6).
③ Referring to Fig. 3-1-5, engage the projection of the sync holder of cassette housing with the cutaway groove in the main plate.
④ Secure the cassette housing with screws ⓒ and ⓑ.
⑤ Secure the leaf switch with screws ⓐ and ⓑ.

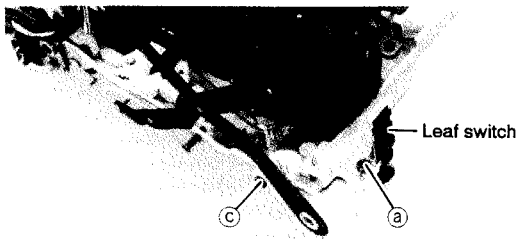


Fig. 3-1-1

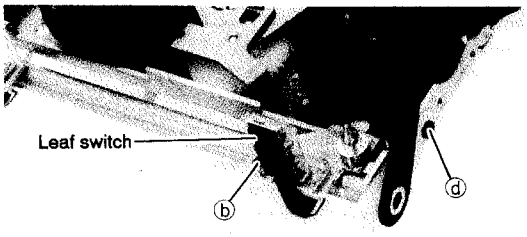


Fig. 3-1-2

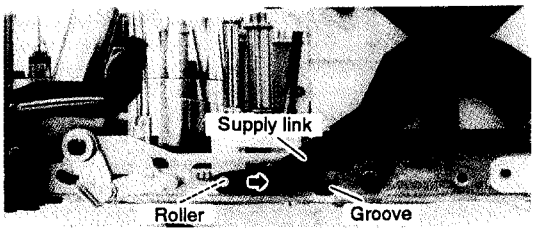


Fig. 3-1-3

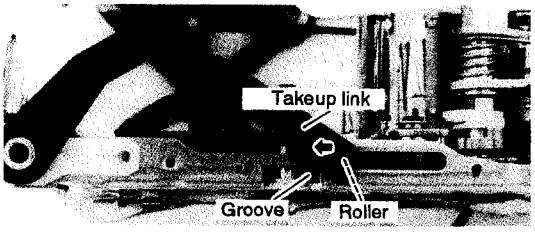


Fig. 3-1-4

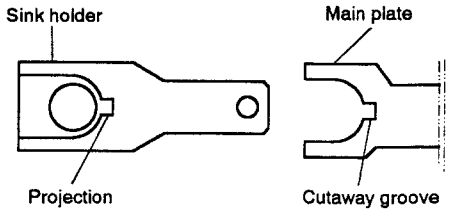


Fig. 3-1-5

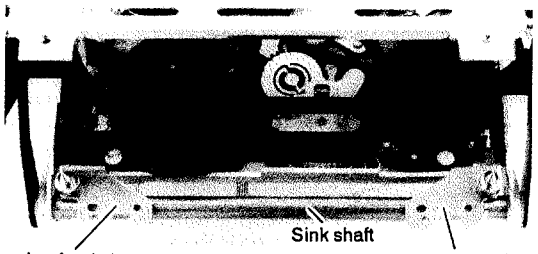


Fig. 3-1-6

4-2 Damper unit replacement

Dismounting

① Remove screws ⓐ and ⓑ. Remove the damper unit (damper section) by movin it in the direction of arrow.
Note:
Gears in the damper unit may fall away. Be careful not lose them.
② Remove the cassette housing (see para. 4-1).
③ Remove cut washers ⓒ and ⓓ. Remove the link of supply side and takeup side from the bottom housing shaft.
④ Slide the supply arm to the rear end. While pushing the supply arm toward side, take out the bottom housing and damper unit (lever section) off respective groove.
⑤ Remove the cut washer ⓔ and then remove the damper unit (lever section).

Mounting

① Attach the cut washer ⓔ and secure the damper unit (lever section).
② Put the roller of supply arm into groove in the damper unit (lever section) and that in the bottom housing.
③ Slide the link of the supply side and takeup side onto respective pin of the bottom housing, attach cut washers ⓒ and ⓓ and secure suupy side link and takeup side link.
④ Lower the damper unit (lever section) ⓐ and ⓑ secure it with screws ⓐ and ⓑ.

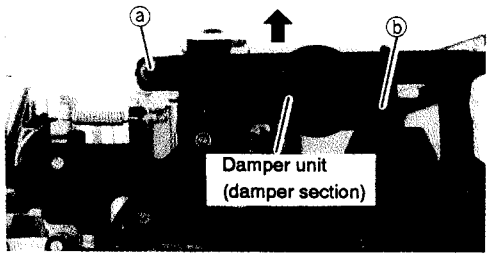


Fig. 3-2-1

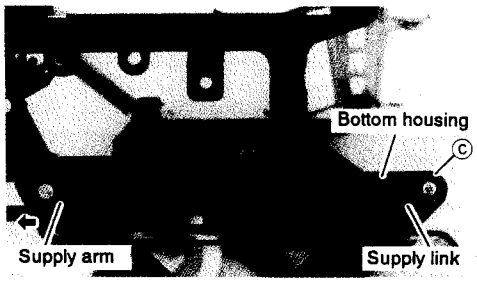


Fig. 3-2-2

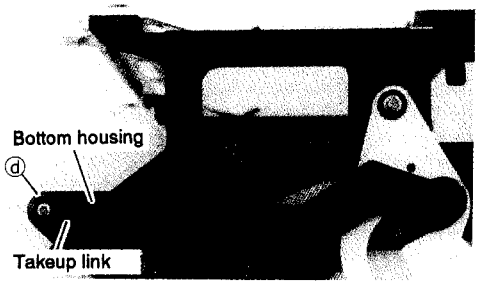


Fig. 3-2-3

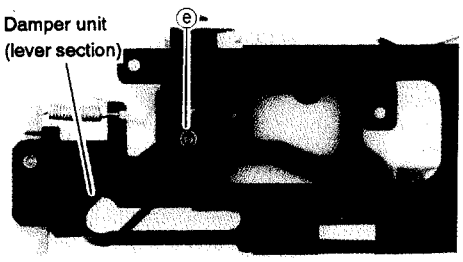


Fig. 3-2-4

4-3 Drum assembly replacement

Dismounting

① While keeping the drum assembly held tight, remove screws ⓐ, ⓑ and ⓒ that holding the assembly.
② Gradually lift up the drum assembly with care to clear adjacent components.

Mounting

① Insert two FPC cables from the drum assembly into the respective groove in the main plate.
② Place the drum assembly on the main plate while taking care not to touch adjacent components. Align the posi- tioning pin of the assembly with the positioning hole in the main plate.
③ Secure the drum assembly with screws ⓐ, ⓑ and ⓒ.

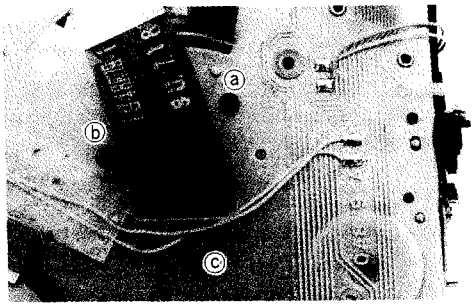


Fig. 3-3-1

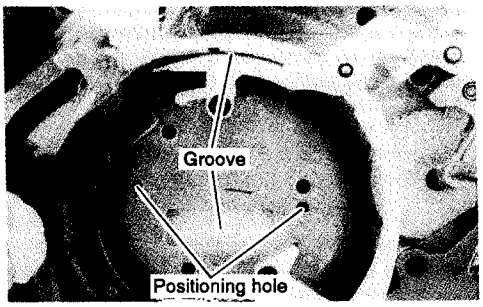


Fig. 3-3-2

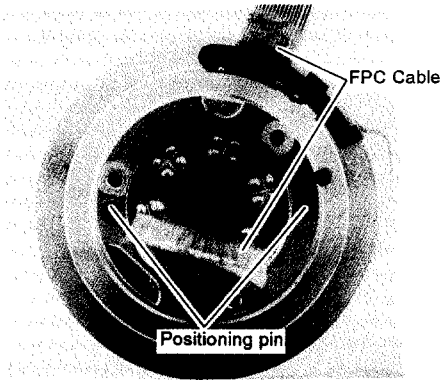


Fig. 3-3-3

4-4 Loading motor replacement

Dismounting

① Remove screws ⓐ and ⓑ and then remove the loading motor.

Mounting

① Verify that the motor holder is placed on the loading motor mounting area of the main plate.
② Engage the loading motor gear and idler gear S. Secure the motor with screws ⓐ and ⓑ.

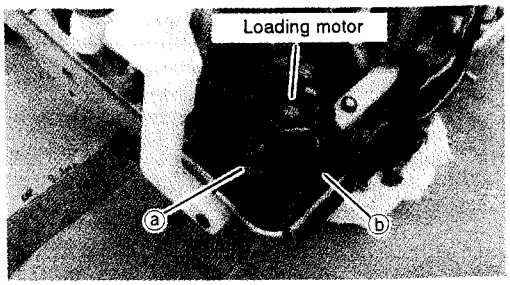


Fig. 3-4-1

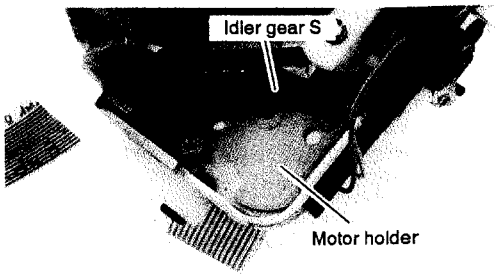


Fig. 3-4-2

4-5 Reel disk replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove cut washer ⓐ. Remove the reel disk from the shaft of the main plate.

Mounting

① Make sure that two thrust washers are attached on the reel disk mounting shaft on the main plate.
② Gradually attach the reel disk to the shaft of the main plate. Make sure that the tension belt is attached along the brake surface of the supply reel disk.
③ Attach the cut washer ⓐ and secure the reel disk.
④ Make sure that the reel disk turns smoothly.
⑤ Attach the master plane (see para. 3).
⑥ Place a height adjusting square on the master plane.
⑦ Slide the height measuring face of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at the face A of the square (upper face of measuring part) and will not turn at face B (lower surface of measuring part).
⑧ If the result of step (7) is not acceptable, add to or remove thrust washer(s) (material code: 552C006O10) under the reel disk.
⑨ Mount the cassette housing.

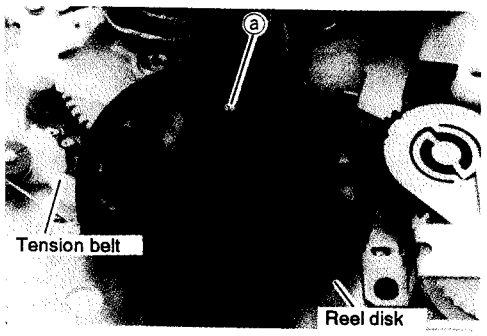
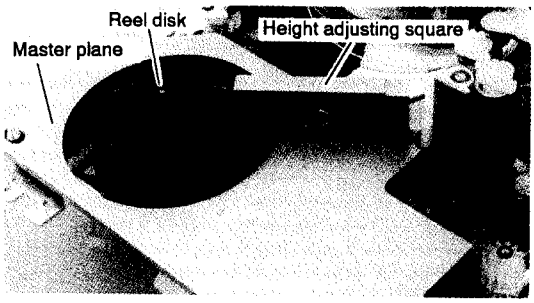


Fig. 3-5-1



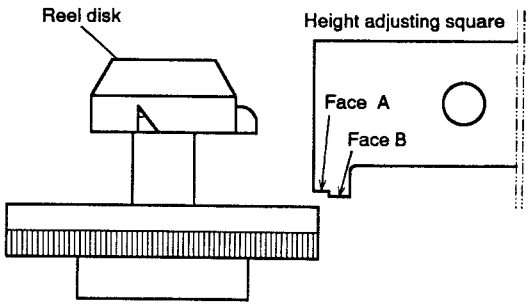


Fig. 3-5-2

4-6 Reel gear replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the cut washer ⓐ and then remove the gear TU1 from the main plate shaft.
③ Remove the cut washer ⓑ holding the reel gear.
④ Slightly move the clutch plate OFF in the direction of arrow and remove the reel gear off the main plate shaft.

Mounting

① Make sure that the thrust washer is at- tached on the reel gear mounting shaft.
② Slightly move the clutch plate OFF in the direction of arrow and attach the reel gear to the main plate shat.
③ Secure the reel with the cut washer ⓑ.
④ Make sure that the thrust washer is at- tached on the gear TU1 mounting shaft.
⑤ Attach the gear TU1 to the mounting shaft on the main plate and secure the gear with the cut washer ⓐ.
⑥ Mount the cassette housing.

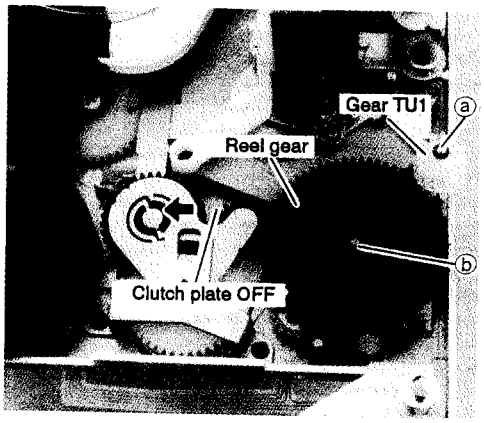


Fig. 3-6-1

4-7 Sink belt replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove screws ⓐ and ⓑ that holding the idler unit.
③ Remove the sink belt from the capstan motor and idler unit.

Mounting

① Attach the sink belt to the capstan motor and idler unit.
② Secure the idler unit with screws ⓐ and ⓑ.
③ Mount the cassette housing.

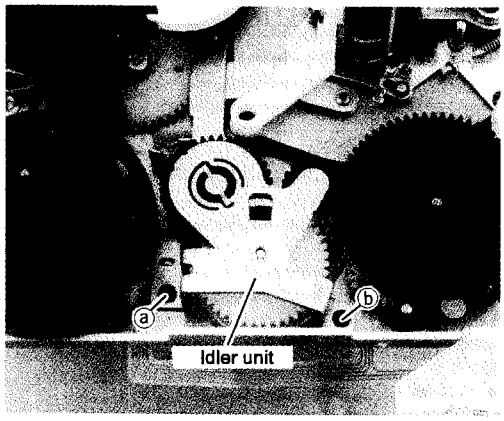


Fig. 3-7-1

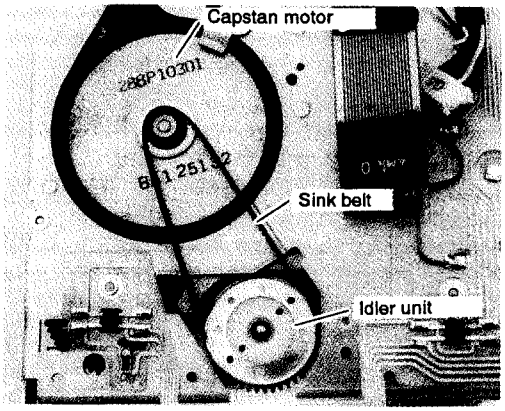


Fig. 3-7-2

4-8 Clutch unit replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove all the parts described in para. 4-6 (Reel gear replacement).
③ Remove spring RS.
④ Remove the cut washer ⓐ and then remove the clutch unit from the main plate shaft and clutch plate OFF shaft.

Mounting

① Attach the clutch unit to the main plate shaft and clutch plate OFF shaft.
② Secure the clutch unit with the cut washer ⓐ.
③ Attach the spring RS.
④ Mount all the parts described in para. 4-6 (Reel gear replacement).
⑤ Mount the cassette housing.

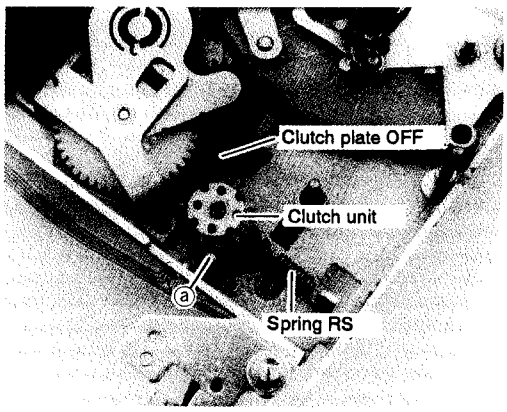


Fig. 3-8-1

4-9 A/C head repalcement

Dismounting

① Remove the cassette housing (see para. 4-1).
② At the A/C lead wire holder, disconnect the lead wires connected to the A/C head.
③ Remove nut S.
④ Pull out the A/C head assembly gradually off the shaft on the capstan motor stator.
Note:
Removing the A/C head also loosen the A/C washer and spring G on the shaft. Take care not to lose them.
⑤ Pull out the GR-lever roller and A/C arm spring off the A/C plate as shown in Fig. 3-9-2.
⑥ Remove screws ⓐ, ⓑ and ⓒ. Remove the A/C head and A/C plate spring from the A/C plate.
⑦ Desolder the lead wires at the A/C head.

Mounting

① Solder the lead wires to the A/C head.
② Mount the A/C plate spring and A/C head on the A/C plate. Secure these parts with screws ⓐ, ⓑ and ⓒ to the dimension shown in Fig. 3-9-3.
③ Attach the A/C arm spring and GR-lever to the AC plate shaft. For mounting status of the A/C arm spring, see Fig. 3-9-1.
④ Attach the A/C head assembly to the shaft of the capstan motor stator. To do so, move the GR-lever roller in the direction of arrow in Fig. 3-9-1. Orient the assembly so that the GR-lever tipⒶ is inside the main plate and the A/C head phase adjuster screw Ⓑ of the A/C plate is outside the main plate.
⑤ Tighten the nut S (temporary).
⑥ Place the master plane (see para. 3).
⑦ Place the height adjusting square on the master plane.
⑧ Adjsut nut S so that the center of the distance between measuring facesⒶandⒷof the square is at the same level of the edge of the lower flange of GR-lever roller. This is a careful adjustment since the distance between the Ⓐ and Ⓑ faces is small.
Note:
Check the adjustment by turning the GR-lever roller. It should rotate smoothly without touching the arm pinch.
⑨ Mount the cassette housing.
⑩ Following the description in para. 5-5, adjust the A/C head.

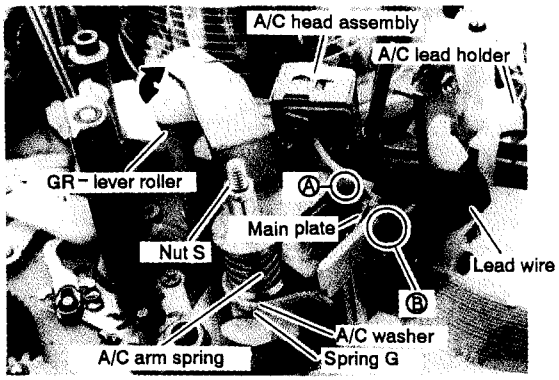


Fig. 3-9-1

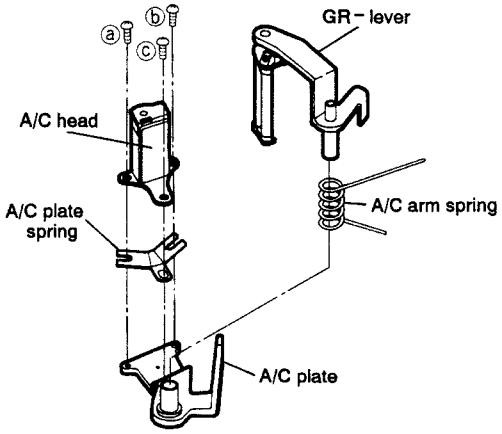


Fig. 3-9-2

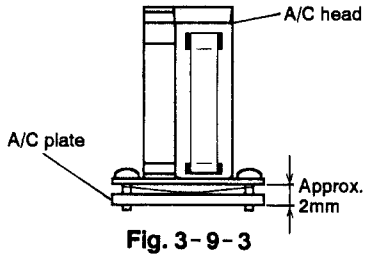
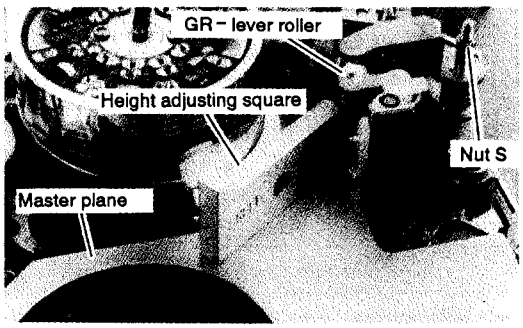


Fig. 3-9-3



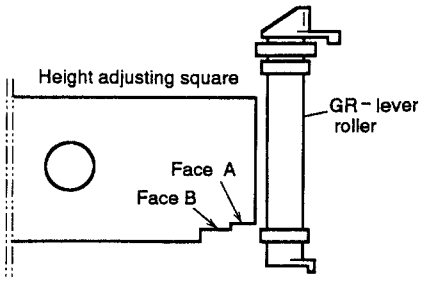


Fig. 3-9-4

4-10 Pinch roller assembly and Pinch roller replacement

4-10-1 Pinch roller assembly replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the A/C head assembly (see para. 4-9).
③ Pull out A/C washer and spring G off the A/C head mounting shaft.
④ Remove the cam gear TUG from the A/C head assembly mounting shaft.
⑤ Remove the pinch roller arm spring.
⑥ Remove screw ⓐ and then pinch roller washer.
⑦ Remove the pinch roller assembly from the shaft on the capstan motor stator.

Mounting

① Mount the pinch roller assembly on the shaft on the capstan motor stator. Be sure to position the pin at lower part of the pinch roller assembly to the part of the takeup guide arm shown in Fig.3-10-2.
② Attach the pinch roller washer to the pinch roller assembly. Secure the pinch roller with the screw ⓐ.
③ The cam gear TUG has two positioning pins at the lower part. Attach the cam gear TUG to the takeup guide arm by first aligning the postioning pins with the positioning holes (Fig. 3-10-2) in the takeup guide.
④ Attach the spring G and A/C washer to the A/C head assembly mounting shaft.
⑤ Mount the A/C head assembly.
⑥ Mount the cassette housing.

4-10-2 Pinch roller replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Set the deck to loading status. Release the load just before the pinch roller touches the capstan motor shaft (see Fig. 3-10-3).
③ Move the GR-lever roller in the arrow - shown in Fig. 3-10-3, and then gradually remove the pinch roller cap.
④ Slide the pinch roller out of the pinch roller arm shaft.

Mounting

① Move the GR-lever roller in the direction of arrow.
② Make sure that the cam L-GR is attached on the pinch roller arm. Attach the pinch roller to the pinch roller arm shaft with orientation as shown in Fig. 3-10-4.
③ Attach the pinch roller cap to the pinch roller arm shaft with the orientation as shown in Fig. 3-10-4.

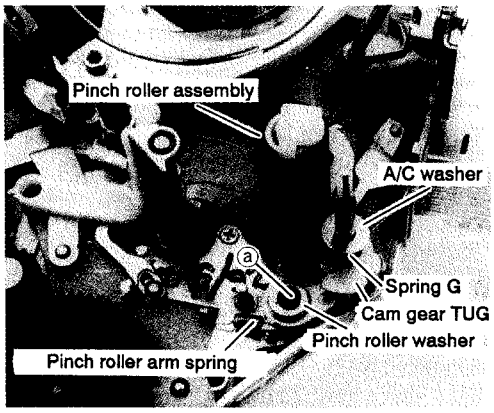


Fig. 3-10-1

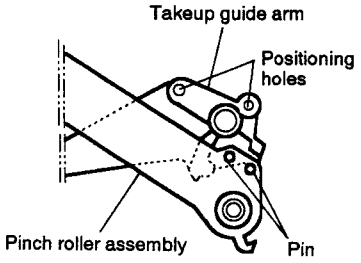


Fig. 3-10-2

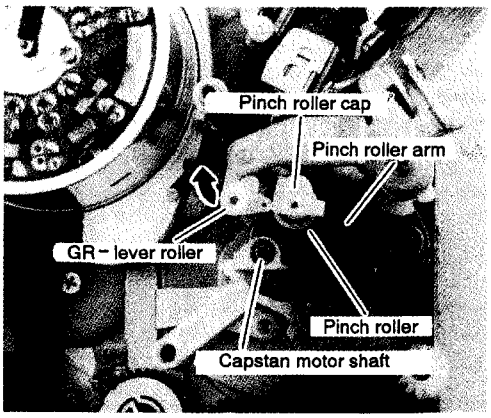


Fig. 3-10-3

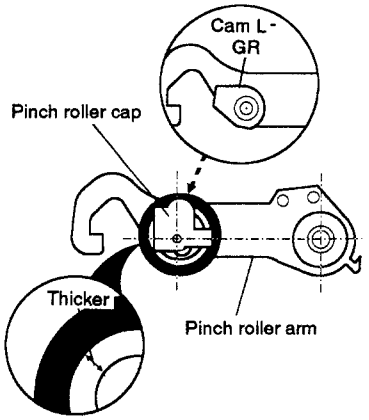


Fig. 3-10-4

4-11 Slant T replacement

Dismounting

① Remove the takeup impedance spring.
② Remove the cut washer ⓐ and then remove the takeup impedance roller assembly from the shaft of the main plate.
③ Remove the cleaning arm spring.
④ Remove the cleaning arm from the main plate shaft.
⑤ Remove the screw ⓑ and then A/C lead holder.
⑥ Remove the screw ⓒ and then takeup guide arm stopper.
⑦ Remove screws ⓒ and ⓓ, and then slant T.

Mounting

① Make sure that the lock arm spring and lock lever T-B are mounted as shown in Fig. 3-11-4.
② Attach the slant T to the main plate shaft.
③ Secure the slant T with screws ⓓ and ⓔ.
④ Secure the takeup guide arm stopper with the screw ⓒ.
⑤ Secure the A/C lead holder with the screw ⓑ.
⑥ Attach the cleaning arm to the main plate shaft.
⑦ Attach the cleaning arm spring.
⑧ Attach the takeup impedance roller assembly to the main plate shaft.
Note:
There is a thrust washer between the cleaning arm and the takeup impedance roller.
⑨ Secure the takeup impedance roller with the cut washer ⓐ.
⑩ Attach the takeup impedance spring in the direction as shown in Fig. 3-11-1.

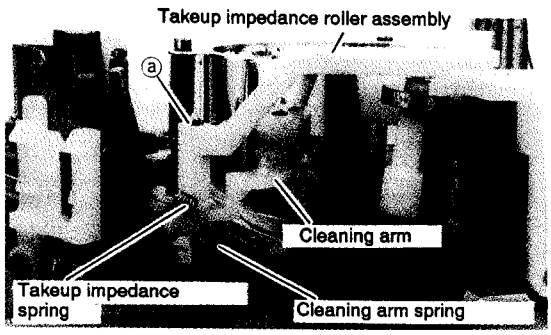


Fig. 3-11-1

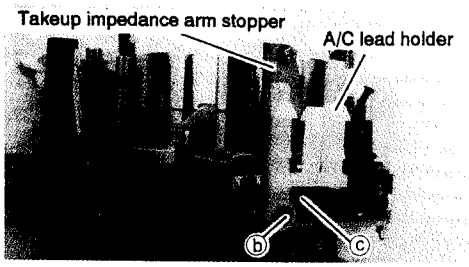


Fig. 3-11-2

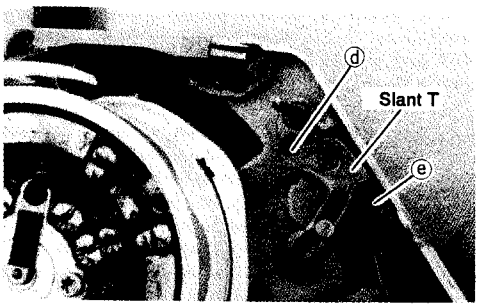


Fig. 3-11-3

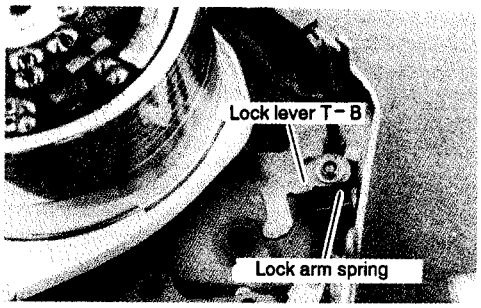


Fig. 3-11-4

4-12 Takeup guide arm replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the A/C head assembly (see para. 4-9).
③ Remove all the components described in para. 4-10 (Pinch roller replacement).
④ Remove all the components described in para. 4-11 (Slant T replacement).
⑤ Remove the takeup guide arm from the stator shaft of the capstan motor and pin of the cam lever T.

Mounting

① Attach the takeup guide arm to the stator shaft of the capstan motor in a manner so that the positioning pin of the cam lever T fits into the positioning hole in the link rod.
② Attach all the components described in para. 4-11 (Slant T replacement).
③ Attach all the components described in para. 4-10 (Pinch roller replacement).
④ Mount the A/C head assembly.
⑤ Mount the cassette housing.

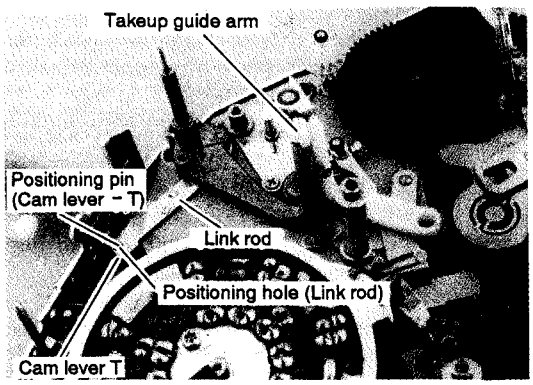


Fig. 3-12-1

4-13 Supply impedance roller replacement

Dismounting

① Remove the screw ⓐ and then the tape end sensor.
② Remove the impedance spring.
③ Remove the cut washer ⓑ. Pull out the supply impedance roller assembly off the main plate shaft.

Mounting

① Attach the supply impedance roller assembly to the main plate shaft and then secure the assembly with the cut washer ⓑ.
② Attach the impedance roller spring.
③ Secure the tape end sensor assembly with the screw ⓐ.

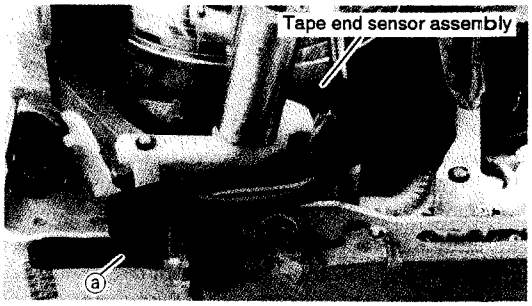


Fig. 3-13-1

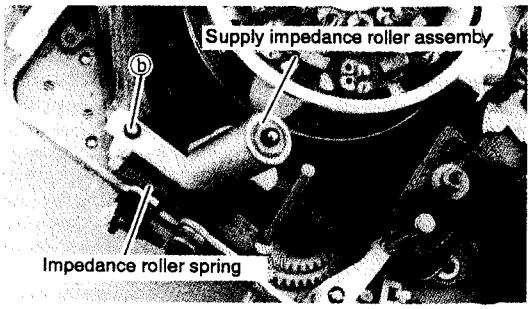


Fig. 3-13-2

4-14 Capstan motor replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove all the components described in para. 4-6 (Reel gear replacement).
③ Remove the A/C head assembly (see para. 4-9).
④ Remove all the components described in para. 4-10-1 (Pinch roller assembly replacement).
⑤ Remove all the components described in para. 4-11 (Slant T replacement).
⑥ Remove the lock lever T-B and lock arm spring.
⑦ Remove the takeup guide arm (see para. 4-12).
⑧ Remove screws ⓐ and ⓑ and then tape pilot unit.
⑨ Remove washer ⓒ and then sub pinch roller spring.
⑩ While slightly lifting up the pinch roller lever B, remove the pin roller links A and B.
⑪ Remove the sink belt (see para. 4-7).
⑫ Remove screws ⓓ, ⓔ and ⓕ and then capstan motor.

Mounting

① Pass the FPC cable of the capstan motor through the FPC entry hole in the main plate (Fig. 3-14-1) and under the pinch roller lever B; and then mount the capstan motor on the main plate.
② Secure the capstan motor with screws ⓓ, ⓔ and ⓕ.
③ Attach the sink belt.
④ While slightly liftting up the pinch roller lever B, insert the pin of the pinch roller link A into the hole of the pinch roller lever B. Mount the pinch roller links A and B.
⑤ Referring to Fig. 3-14-2, attach the sub pinch roller spring to the pinch roller link B. Secure the link B with the washer ⓒ shown in Fig. 3-14-1.
⑥ Secure the tape pilot unit with screws ⓐ and ⓑ. Tighten screw ⓐ first.
⑦ Attach the takeup guide arm.
⑧ Attach the lock arm spring and lock lever T-B.
⑨ Attach all the components described in para. 4-11 (Slant T replacement).
⑩ Attach all the components described in para. 4-10-1 (Pinch roller assembly replacement).
⑪ Mount the A/C head assembly.
⑫ Attach all the components described in para. 4-6 (Reel gear replacement).
⑬ Mount the cassette housing.

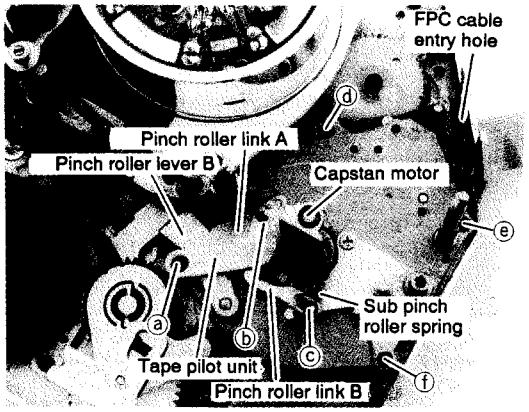


Fig. 3-14-1

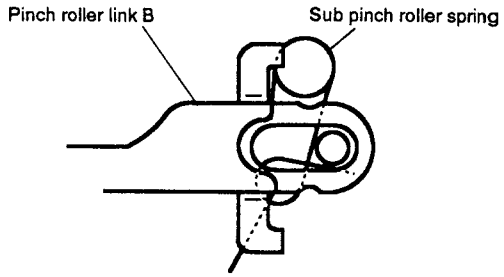


Fig. 3-14-2

4-15 Supply tape guide assembly and Supply guide roller replacement

4-15-1 Supply tape guide assembly replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the drum assembly (see para. 4-3).
③ Remove the reel disk (see para. 4-5).
④ Remove the supply impedance roller assembly (see para. 3-13).
⑤ On the FPC sensor board, desolder the two lead wires from the LED of the guide slider assembly.
⑥ Remove the cut washer ⓐ and then regulator tension.
⑦ Remove screws ⓑ, ⓒ and ⓓ, and then guide slider assembly.
⑧ Remove the supply tape guide assembly from the supply lever by moving the tape guide in the direction of arrow (Fig. 3-15-3).

Mounting

① Attach the supply tape guide assembly to the supply lever by moving the guide in the direction opposite to arrow in Fig. 3-15-3.
② Pass the two lead wires from the LED of the guide slider assembly through the hole in the main plate. Secure the guide slider with screws ⓑ, ⓒ and ⓓ.
③ Solder the two lead wires from the LED mounted on the guide slider assembly to the FPC sensor board.
④ Secure the the regulator tension with the cut washer ⓐ.
⑤ Attach the supply impedance roller assembly.
⑥ Mount the reel disk.
⑦ Mount the drum assembly.
⑧ Mount the cassette housing.

4-15-2 Supply guide roller replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Load the deck to a degree so that the set screw can be turned.
③ Loosen the set screw enough for the guide roller to turn easily.
④ Turn the supply guide roller counter- clockwise and remove it from the supply tape guide.

Mounting

① Turn the supply guide roller fully clockwise three times to fix it to the supply tape guide.
② Lightly tighten the set screw.
③ Mount the cassette housing.
④ Following the description in para. 5-2, check FM envelope and adjust it as necessary.

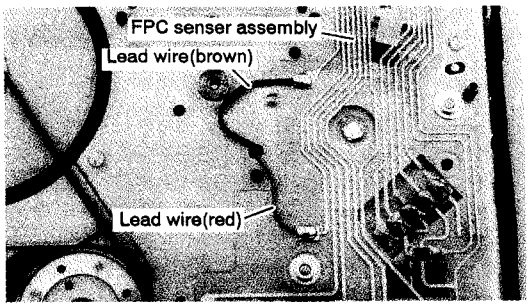


Fig. 3-15-1

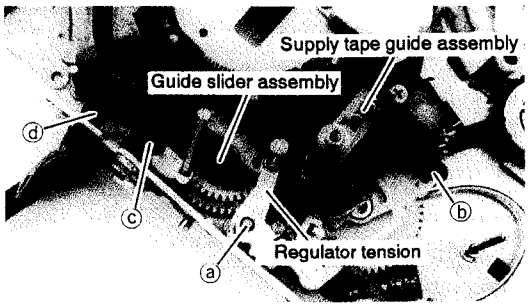


Fig. 3-15-2

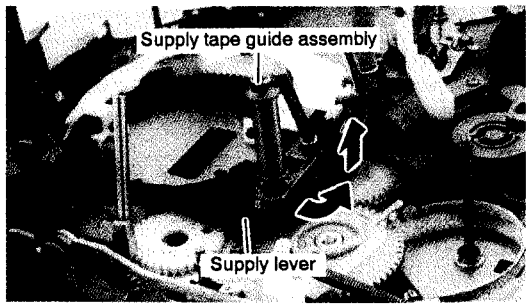


Fig. 3-15-3

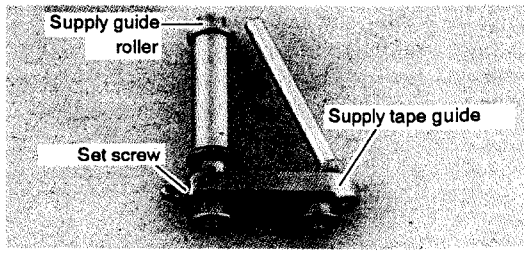


Fig. 3-15-4

4-16 Takeup tape guide assembly and Takeup guide roller replacement

4-16-1 Takeup tape guide assembly replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the drum assembly (see para. 4-3).
③ Remove screws ⓐ and ⓑ and then the guide slider T.
④ Slide the takeup tape guide assembly in the direction of arrow (Fig. 3-16-1) and remove it from the guide slider T.
⑤ Remove the cut washer ⓒ and then pull out the takeup tape guide assembly off the takeup arm shaft.

Mounting

① Attach the takeup guide assembly to the takeup arm shaft. Secure the takeup tape guide assembly with the cut washer ⓒ.
② Attach the takeup tape guide assembly to the guide slider T by sliding the guide in the direction opposite to the arrow shown in Fig. 3-16-1.
③ Attach the junction of guide sliders T and R as shown in Fig. 3-16-1. Secure the guide slider T with screws ⓐ and ⓑ.

4-16-2 Takeup guide roller replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Load the deck to a degree so that the set screw can be turned.
③ Loosen the set screw enough to allow the takeup guide roller to turn easily.
④ Turn the takeup guide roller counter-clockwise and remove it from the takeup tape guide.

Mounting

① Turn the takeup guide roller fully clockwise three times to fix it to the takeup tape guide.
② Lightly tighten the set screw.
③ Mount the cassette housing.
④ Following the description in para. 5-2, check FM envelope and adjust it as necessary.

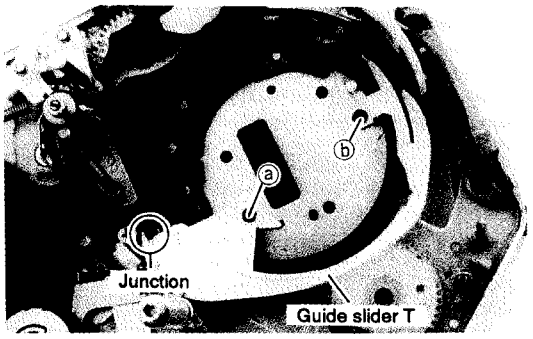


Fig. 3-16-1

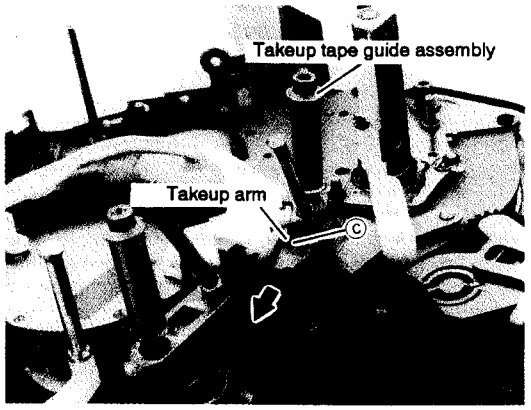


Fig. 3-16-2

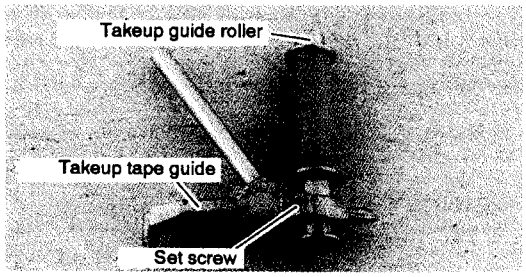


Fig. 3-16-3

4-17 Mode switch replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the drum assembly (see para. 4-3).
③ Remove the reel disk (see para. 4-5).
④ Remove the supply impedance roller assembly (see para. 4-14).
⑤ Following steps in para. 4-15-1(Supply tape guide assembly replacement), remove the guide slider assembly.
⑥ Remove screws ⓐ and ⓑ and then the guide slider R.
⑦ Remove the tension spring 1.
⑧ Remove the cut washer ⓒ and then the tension spring 2 and tension holder from the main plate shaft.
⑨ Remove the cut washer ⓓ and then the regulator arm from the main plate shaft.
⑩ Desolder the 5 solder terminals of the mode switch on the FPC sensor board.
⑪ Remove screws ⓔ and ⓕ, and then mode switch.

Mounting

① Make sure that the cam M positioning hole is aligned with the positionig hole in the main plate.
② Place the mode switch on the main plate so that the registration mark on the mode switch isaligned with that on the cam M. Secure themode switch with screws ⓔ and ⓕ. Checkcontinuity between the mode switch common terminal (COM) and each of other terminals (P0 – P3).

The results should be as follows:
Between P0 ••••••• conductive
Between P1 ••••••• nonconductive
Between P2 ••••••• conductive
Between P3 ••••••• nonconductive

③ Solder the 5 solder terminals of the mode switch to the FPC board.
④ Fix the regulator arm tension holder and tension spring 2 to the main plate shaft with cut washers ⓒ and ⓓ.
⑤ Attach the tension spring 1.
⑥ Secure the guide slider R with screws ⓐ and ⓑ.
⑦ Mount the guide slider assembly, followingthe steps in para. 4-15-1 (Supply tape guide assembly replacement).
⑧ Mount the supply impedance roller assembly.
⑨ Mount the reel disk.
⑩ Mount the drum assembly.
⑪ Mount the cassette housing.

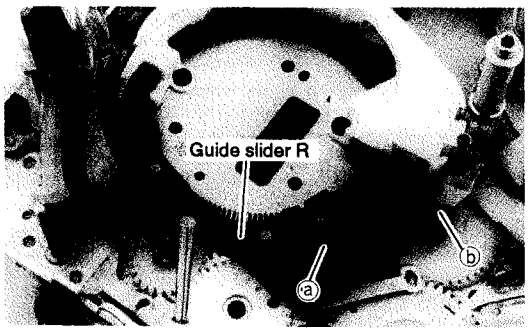


Fig. 3-17-1

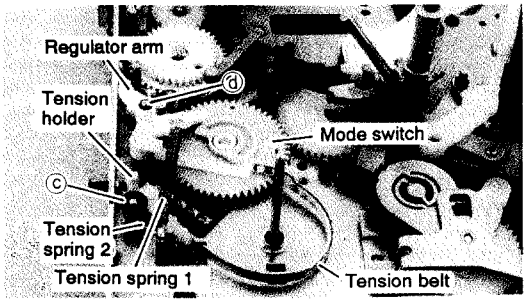


Fig. 3-17-2

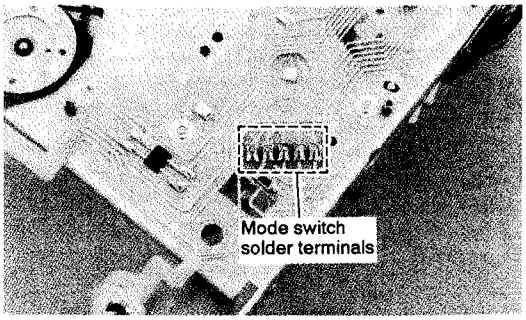


Fig. 3-17-3

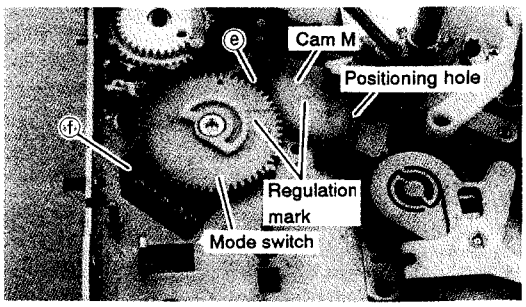


Fig. 3-17-4

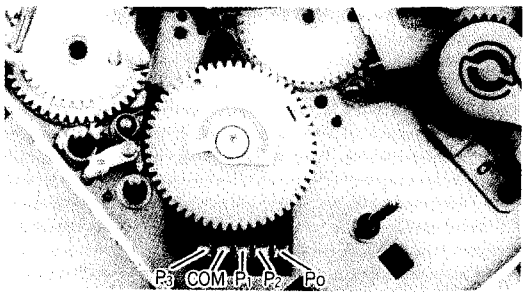


Fig. 3-17-5

4-18 Cam T replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the drum assembly (see para. 4-3).
③ Remove all the components described in para. 4-6 (Reel gear replacement).
④ Remove the sink belt (see para. 4-7).
⑤ Remove the A/C head assembly (see para. 4-9).
⑥ Remove the pinch roller assembly (see para. 4-10-1).
⑦ Remove all the components described in para. 4-11 (Slant T replacement).
⑧ Remove the takeup guide arm (see para. 4-12).
⑨ Remove all the components described in para. 4-14 (Capstan motor replacement).
⑩ Remove the spacer and cam lever T.
⑪ Remove the screw ⓐ and then cam T.

Mounting

① Make sure that registration marks and positioning holes of components shown in Fig. 3-18-3 are aligned with corre- sponding mark andhole of the main plate. Secure the supply cam S and cam S.
② Make sure that the lock lever T-A is attached on the main plate shaft.
③ Align the positioning holes of lock lever T-A,main plate and cam T. Attach the cam T to the main plate mounting shaft. Make sure that thegears of the cam T and takeup ring unit are meshed with each other.
④ Secure the cam T with screw ⓐ.
⑤ Attach the cam lever T and spacer to the main plate mounting shaft. Make sure that the cam T lower pin is in the groove in the cam T.
⑥ Mount all the components described in para. 4-14 (Capstan motor replacement).
⑦ Mount the takeup guide arm.
⑧ Mount all the components described in para. 4-11 (Slant T replacement).
⑨ Attach the pinch roller assembly.
⑩ Mount the A/C head.
⑪ Attach the sync belt.
⑫ Mount all the components described in para. 4-6 (Reel gear replacement).
⑬ Mount the drum assembly.
⑭ Mount the cassette housing.
⑮ Pull out the pin off the positioning hole in the supply cam S and cam S.

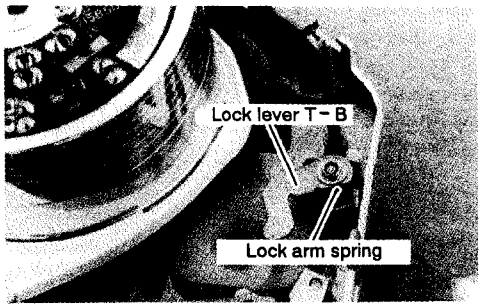


Fig. 3-18-1

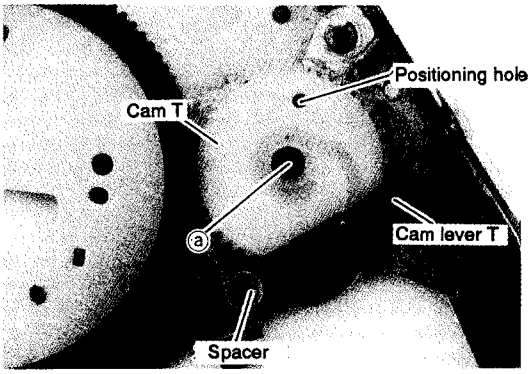


Fig. 3-18-2

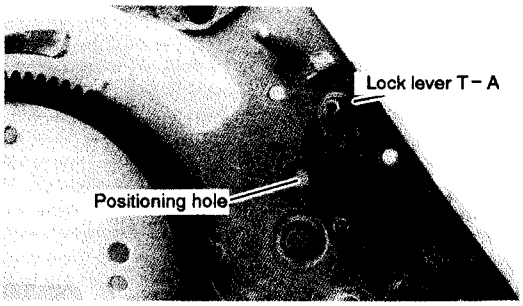


Fig. 3-18-3

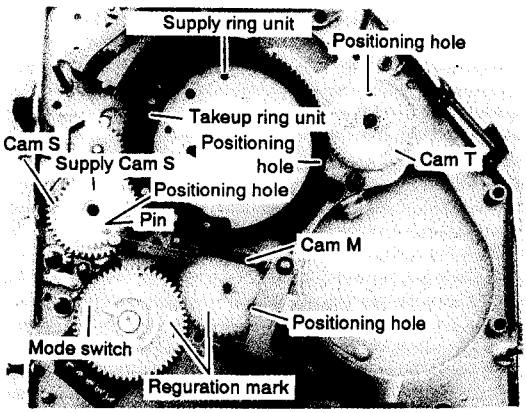


Fig. 3-18-4

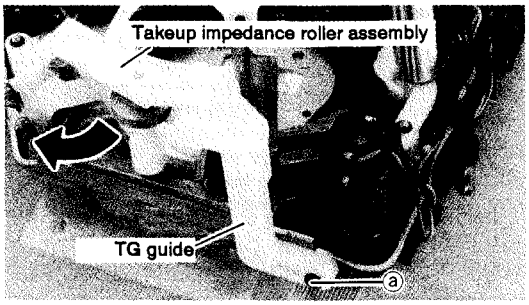
4-19 Tape guide stopper assembly replacement

Dismounting

① Remove the cassette housing (see para. 4-1).
② Remove the drum assembly (see para. 4-3).
③ Remove the screw ⓐ and then TG guide.
④ Remove the tape guide stopper upper screws ⓑ and ⓒ and lower screw ⓓ, and then remove the tape guide stopper.

Mounting

① Secure the tape guide stopper assembly with screws ⓑ, ⓒ and ⓓ.
② Move the takeup impedance roller assembly in the direction of arrow in Fig. 3-19-1. Secure the TG guide with the screw ⓐ.
③ Mount the drum assembly.
④ Mount the cassette housing.



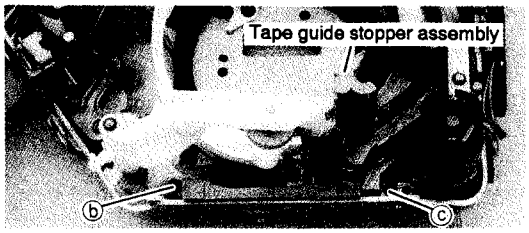


Fig. 3-19-2

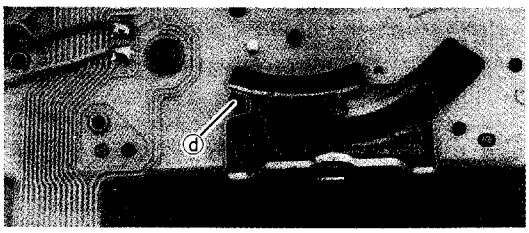


Fig. 3-19-3

5. ADJUSTMENTS

5-1 Back tension and Tension pole adjustment

① Set the unit to play mode.
② Measure the distance between the regulator tension pole and the internal surface of the main plate: should be 0.7 ± 0.2 mm (Fig. 4-1-1).
③ If the measurements is outside the range, adjust the regulator tension pole position adjuster screw for 0.7 ± 0.2 mm.
④ Set the back tension meter and set the unit to play mode.
⑤ When tape running becomes stable, read the back tension meter.
⑥ The reading should be 15 ± 3 g-cm.
⑦ If not, replace the tension spring 1 with a new one.
⑧ When tape running becomes stable, read the back tension meter, it should not vary 4 g-cm or more.
⑨ If the back tension varies more than 4 g-cm, the cause may be ecentric or defective reel disk. Replace with a new one.
⑩ After adjustment, record and play and check for no skew distortion and other parameters.

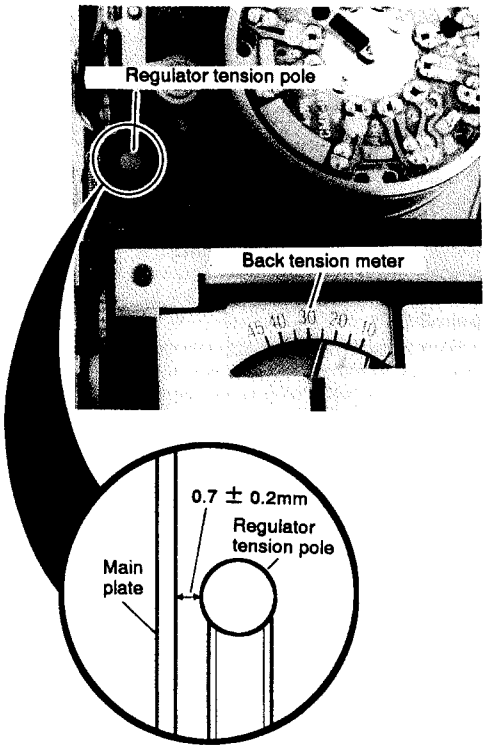


Fig. 4-1-1

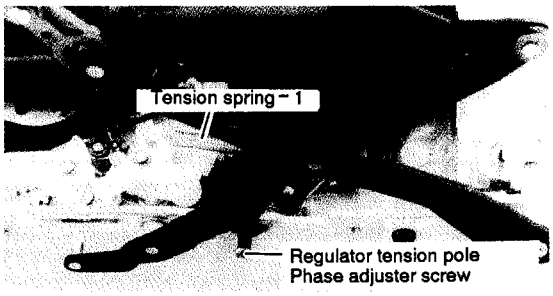


Fig. 4-1-2

5-2 FM envelope check and adjustment

5-2-1 Guide roller check

① Play back the tape recorded using the recorder being tested.
② Visually check the tape at the supply and takeup guide rollers. There should be no gap between the lower face of the upper flange of the guide roller and the upper edge of the tape; and no wrinkle and crease.
③ Play an alignment tape (staircase waveform : PM6KE2CS).
④ Connect an oscilloscope to the TP2A. Trigger on the signal on TP50.
⑤ Connect the TP51 and TP52 to ground to force the digital tracking to enter preset mode.
⑥ Make sure that the both positive and negativ peaks of the waveform are flattened as shown in A of Fig. 4-2-1.
⑦ If the leading portion of FM waveform (supply side of the drum) is not flat (B, C of Fig. 4-2-1), adjust the height of the supply guide roller accoring to para. 5-2-2. If the period between adjacent FM waveforms is not flat (as waveforms D and E, drum takeup side), adjust the height of the takeup guide roller according to para. 5-2-3.

5-2-2 Supply guide roller height adjustment

① Loosen the set screw enough for the supply guide roller to turn easily.
② If the leading edge of the FM waveform (at drum supply side) looks like B in the figure, the height of the supply guide roller is low; if looks like C, the roller is high: adjust the height of the guide roller as described below, for obtaining flat waveform (A in the figure).
- Counterclockwise to raise the roller
- Clockwise to lower the roller

③ After adjustment, go to the phase adjustement (coarse).

5-2-3 Takeup guide roller height adjustment

① Loosen the set screw enough for the takeup guide roller to turn easily.
② If the period between adjacent FM waveforms (at drum takeup side) looks like D in the figure, the height of the takeup guide roller is low; If looks like E, the roller is high: adjust the height of the guide roller as described below, for obtaining flat waveform (A in the figure).
- Counterclockwise to raise the roller
- Clockwise to lower the roller

③ After adjustment, go to the phase adjustement (coarse).

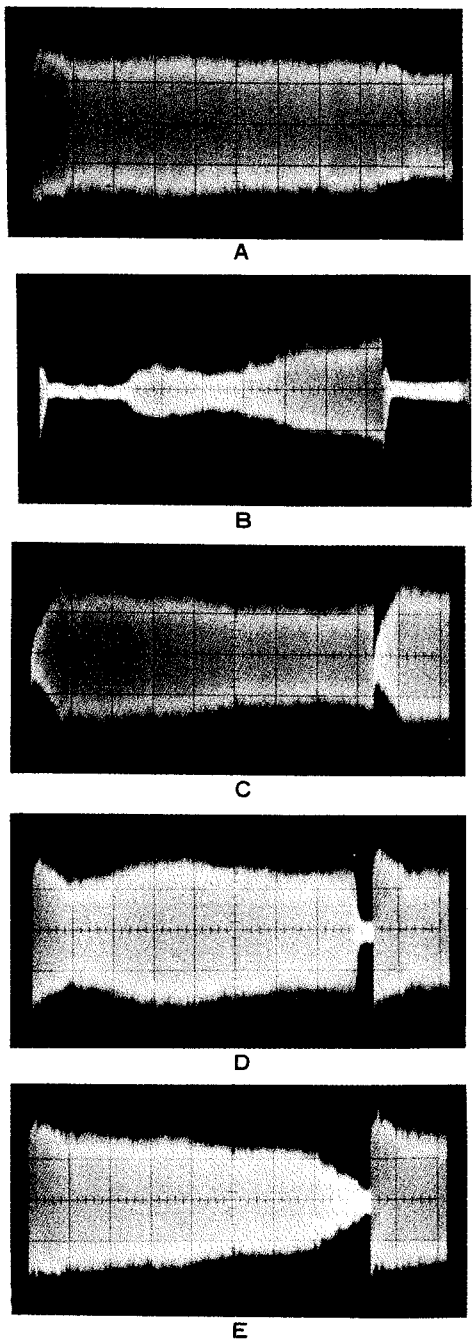
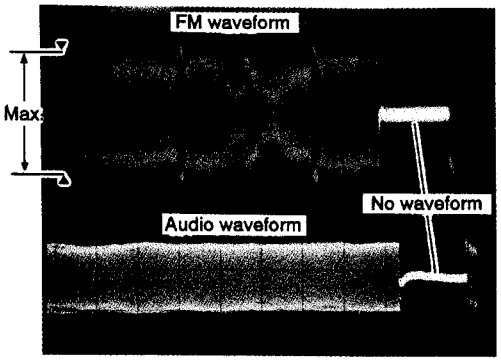


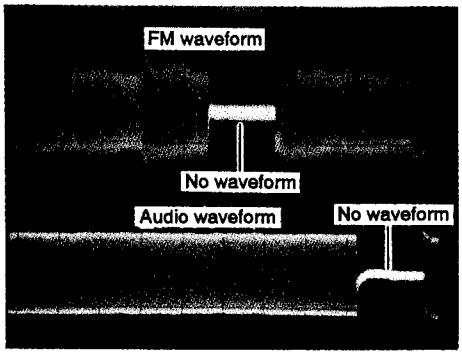
Fig. 4-2-1

5-3 Phase adjustment (coarse)

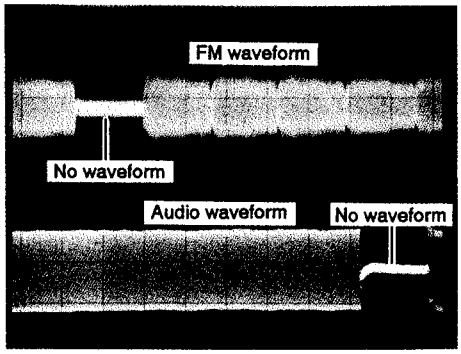
① Play the alignment tape (PMX-C).
② Connect the TP51 and TP52 of the PCB VTR to ground to force the digital tracking to enter preset mode.
③ Connect TP2A (PCB VTR) to CH-1, and audio output terminal to CH-2 of the oscilloscope. Trigger the scope on the signal from the TP50 (PCB VTR).
④ Absence of FM waveform and audio waveform should be almost conincidental (A of Fig.4-3-1).
⑤ If the absence of FM waveform and audi waveform is completely out of phase as shown in B or C of the figure, turn the phase adjuster screw clockwise until the FM waveform looks like A of the figure.
⑥ Fine tune the phase adjuster screw fo maximum FM wave amplitude without changing its phase with respect to that of audio signal.
⑦ After adjustment, apply locking material (paint or the like) to the phase adjuster screw.



A



B



C

Fig. 4-3-1

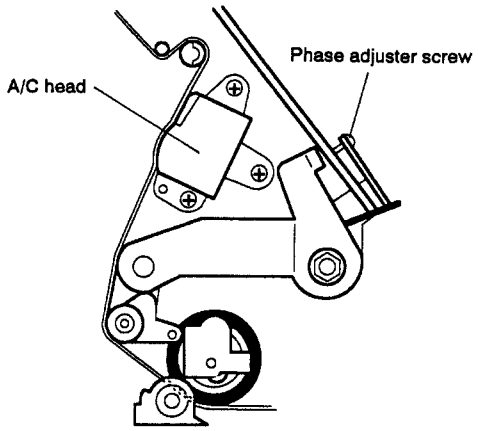


Fig. 4-3-2

5-4 FM waveform flatness check

① Play the alignment tape (staircase waveform : PM6KE2CS).
② Connect the oscilloscope to TP2A. Trigger on the TP50 output.
③ Connect the TP51 and TP52 of the PCB VTR to ground.
④ Press PAUSE button. This enters manual digital tracking mode, enabling tracking with the still adjuster knob.
⑤ Turning the still adjuster knob, verify that the amplitude of the FM waveform varies while keeping flatness.
⑥ Set the adjuster knob for maximum amplitude. Adjust vertical gain of the oscilloscope so that the waveform swings over 5 divisions on the scope graticule.
⑦ Adjust the still adjuster knob so that the middle portion(Portion "b" in Fig. 4-4-1) of the waveform is 80% the maximum amplitude, i.e. 4 divisions of the scope graticule. Verify that the FM waveform amplitude at drum supply side (portion "a" in the figure) and takeup side (port ion "b" in the figure)are at 3.2 divisions of graticule.
⑧ If these values are not met, repeat the adjustment steps.

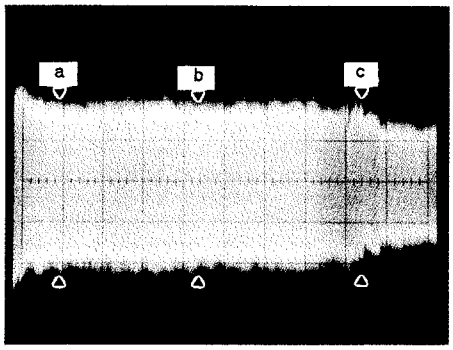


Fig. 4-4-1

5-5 A/C head adjustment

5-5-1 A/C head height, azimuth and slant adjustment

① Play the tape recorded using the recorder being adjusted.
② Alternately adjust the A/C head height adjuster screw and azimuth screw (ⓐ, ⓑ in Fig. 4-5-1) so that the top edge of the tape comes just below the top of the audio head as shown in Fig. 4-5-2.
③ Play the alignment tape (6 kHz audio signal : PM6KE2CS).
④ Connect the oscilloscope to an audio output terminal (CH R or L).
⑤ Alternately adjust A/C head height adjuster screw and azimuth adjuster screw (ⓐ, ⓑ) so that the audio output is maximum.
⑥ Play the tape used in step (1).
⑦ Verify that the tape position at the takeup guid flange of the roller).
⑧ If the tape is positioned as shown in B or C of Fig. 4-5-4, adjust the A/C head slant adjuster screw (ⓒ in Fig. 4-5-1) to bring the tape to the position shown in A of Fig. 4-5-4.
When looks like B: turn the screw ⓒ clockwise.
When looks like C: turn the screw ⓒ counterclockwise.

Note:
Because the tape will not quickly respond to height adjustment, turn the screw ⓒ a little at a time, and then observe the tape for a while; and readjust as necessary.

⑨ After adjusting, disengage the tape. Reengage the tape and make sure that the tape comes at the position A of Fig. 4-5-4 in one second.
⑩ If the tape fails step ⑨, repeat steps ⑦ to ⑨.

Note):
One cycle of above steps may not bring satisfactory result. These steps may have to be repeated for fine tuning.

⑪ When the adjustment completes, apply screw locking material (paint and the like) to A/C head adjuster screws ⓐ, ⓑ and ⓒ.

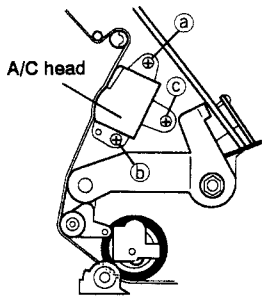


Fig. 4-5-1

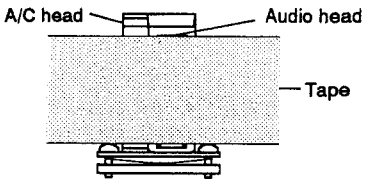


Fig. 4-5-2

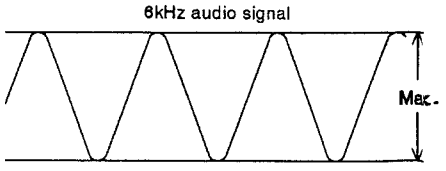


Fig. 4-5-3

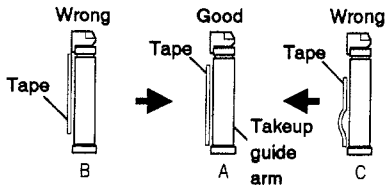


Fig. 4-5-4

5-6 GR-lever roller tape runing adjustment

Note:
Ths adjustment must follow the GR-leer roller height adjustment.

① Play a tape recorded using the recorder being adjusted.
② Observe status of the tape passing the GR lever roller against status illustra-tions in Fig. 4-6-1.
③ If the tape status looks like C or D in Fig. 4-6-1, adjust the GR-lever height adjuster nut shown in Fig. 4-6-2 so that the tape condition is A or B in Fig. 4-6-1.

Note:
Do not turn the GR-lever height adjuster nut more than 1/2 turn.

④ After adjustment, unload the tape. Load the tape again and set to play mode, and make sure the tape becomes status A or B in one second.
⑤ If not, repeat the step ③.

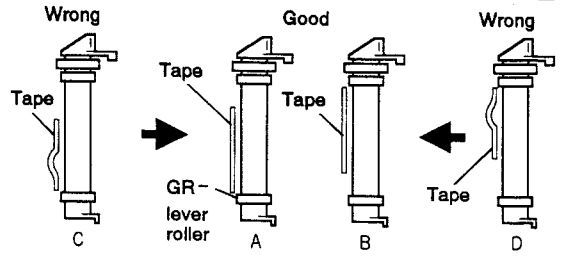


Fig. 4-6-1

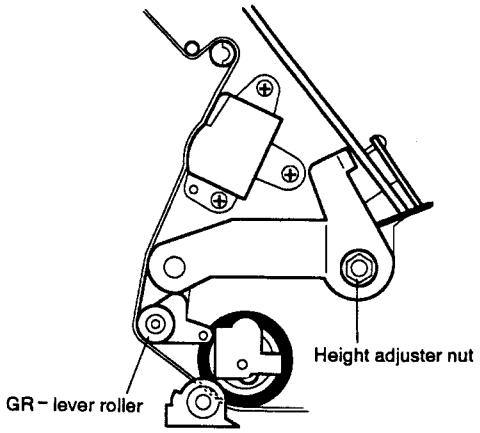


Fig. 4-6-2

5-7 Phase adjustment (fine)

① Connect the oscilloscope to TP2A and trigger on the signal from the TP50.
② Play the alignment tape. [PM3KE6(CH1)C35]
③ Connect the TP51 and TP52 of the VTR board to ground to force the digital tracking to enter the preset mode.
④ Adjust the phase adjuster screw so that the FM waveform is maximum.
⑤ Keeping TP51 and TP52 felt ground, press the pause button. Digital tracking is now in manual mode and can be adjusted by using the still adjuster knob.
⑥ Adjust the still adjuster knob so that the FM waveform is maximum aplitude. Adjust the vertical gain control of the oscilloscope so that the FM waveform swings across 5 divisions on the graticule.
⑦ Press the pause button. The digital tracking is now in preset mode.
⑧ Verify that the amplitude is 4.8 divisions or more on the scope graticule.
⑨ If the amplitude is lower than this value, clean the drum by following the steps of para. 1-1 (Video head cleaning).
⑩ Repeatedly load and unload a tape for use with the recorder, verify that the FM waveform won't vary.

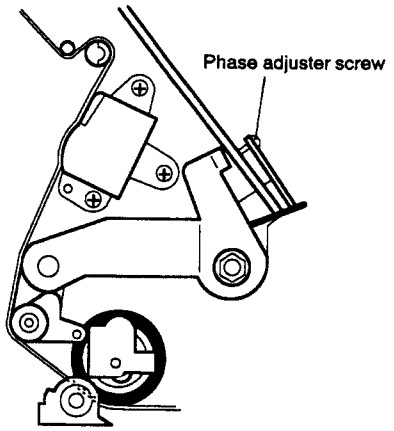


Fig. 4-7-1

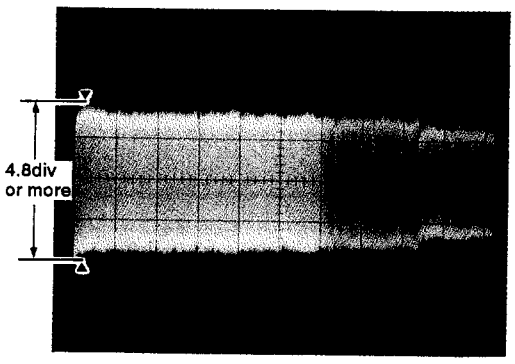


Fig. 4-7-2

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.

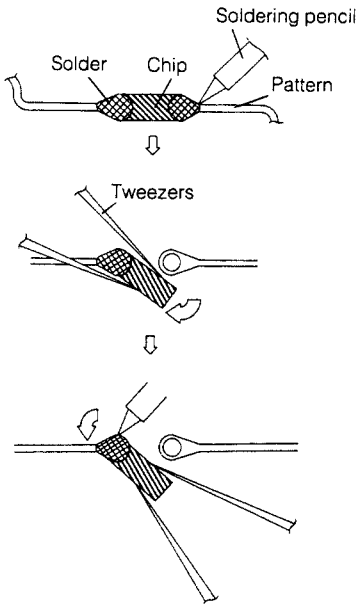


Fig. 1

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.

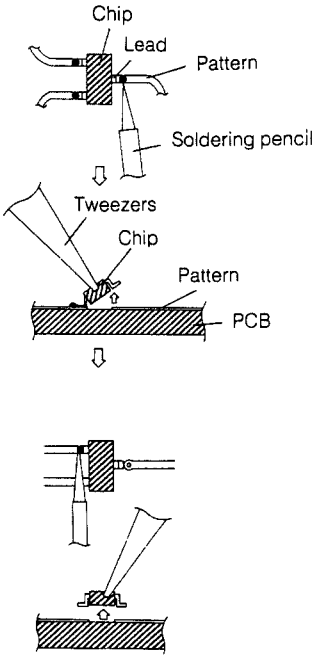


Fig. 2

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.

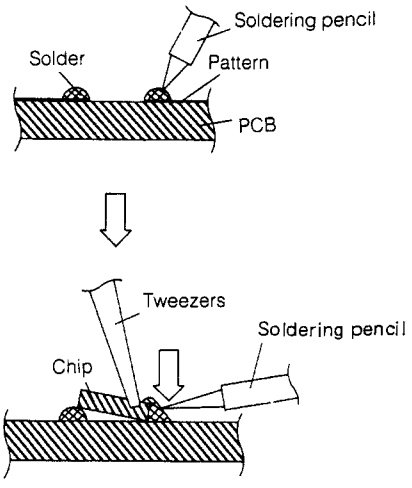
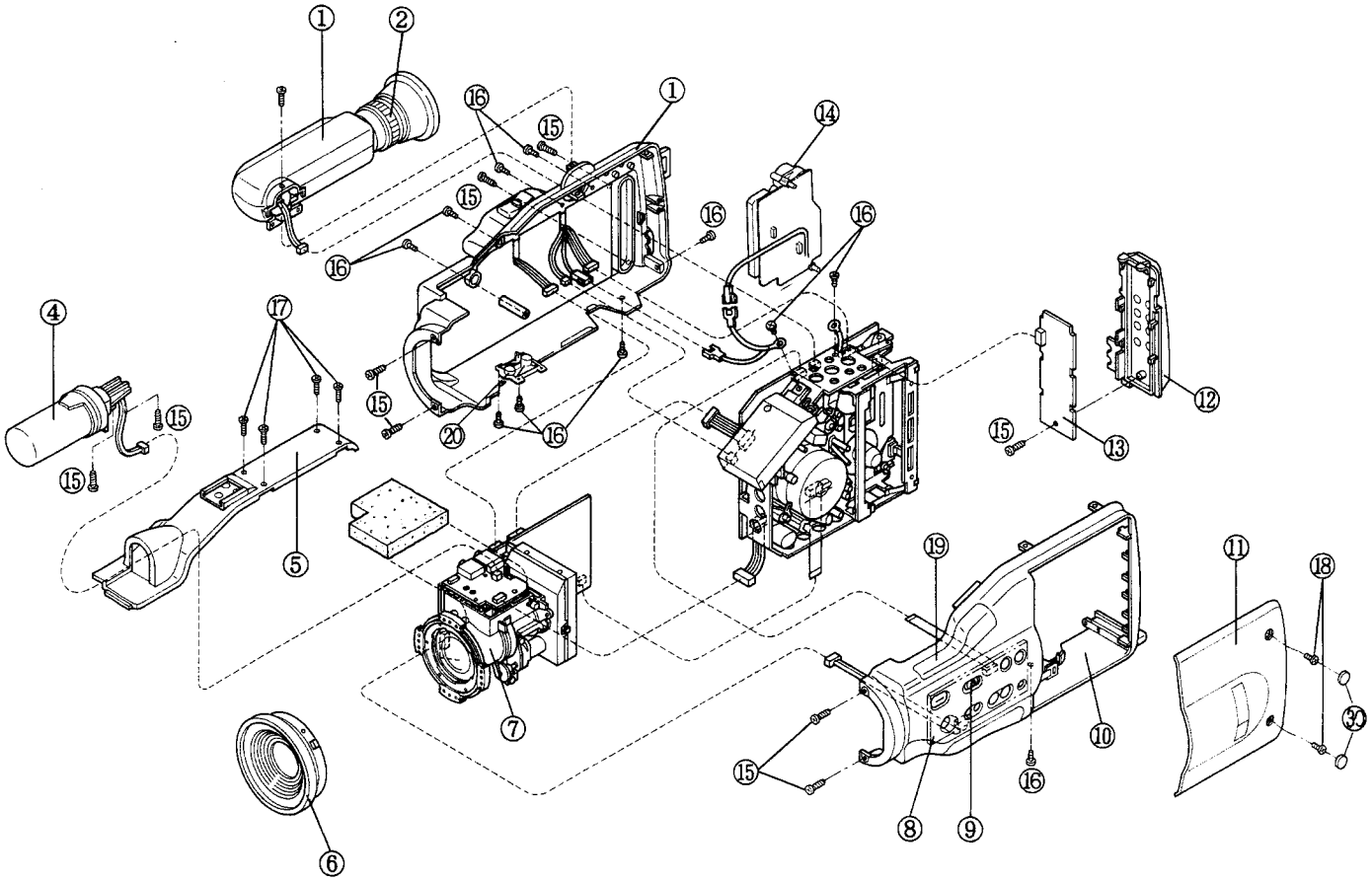
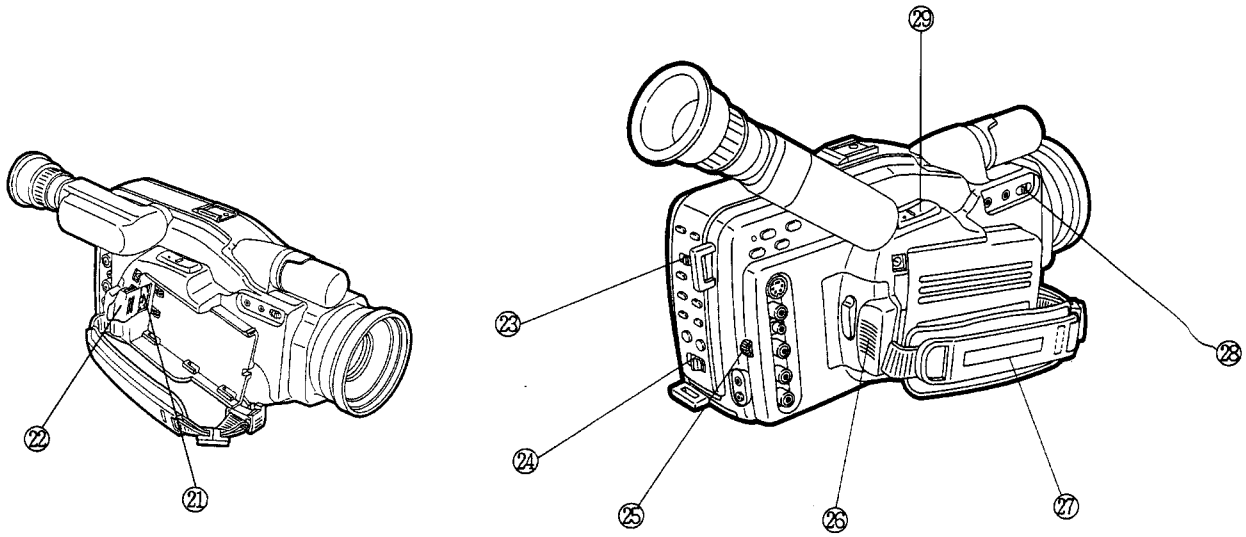


Fig. 3

PARTS LIST
1. Cabinet Parts

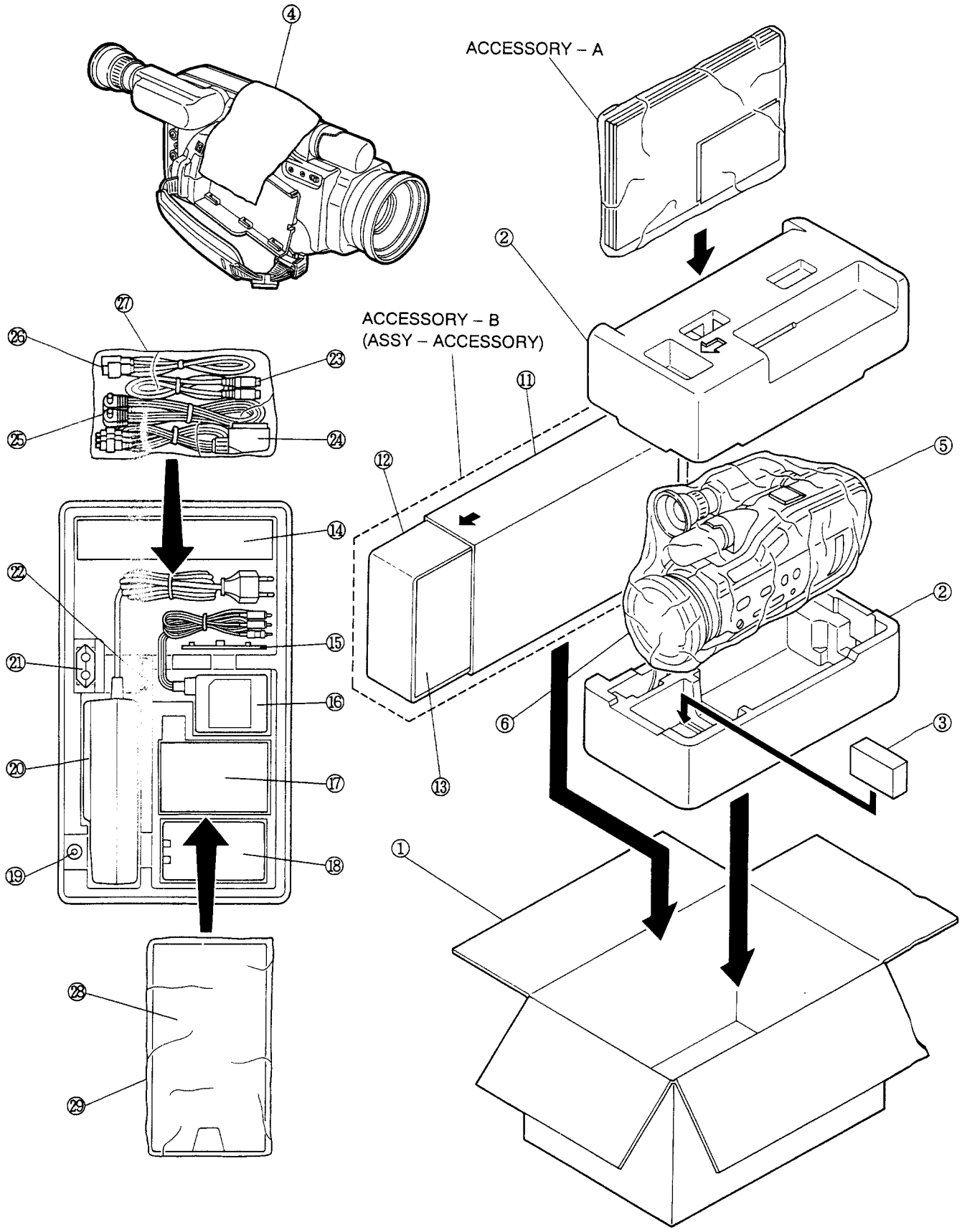




○ : NEW PART

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			CABINET ASSEMBLY	
○	1	701B207020	LOWER CASE	
○	2	490P077010	EVF LENS UNIT	
○	3	939P377020	EVF UNIT	
○	4	485P016010	MICROPHONE UNIT	
○	5	702C914020	PANEL-T UNIT	
○	6	490P072010	NORMAL LENS UNIT	
○	7	490P069010	LENS UNIT	
○	8	939P397010	CAMERA SWITCH UNIT	
○	9	734D514010	FULL AUTO SWITCH SLIDE KNOB	
○	10	701B206020	UPPER CASE UNIT	
○	11	702B759030	CASSETTE HOUSING	
○	12	702B757020	SWITCH PANEL UNIT	
○	13	939P396010	VTR SWITCH UNIT	
○	14	440C206010	AV TERMINAL	
○	15	669D410010	SCREW	M2×6
	16	669D372010	SCREW	M2×4
○	17	669D372020	SCREW	M2×6
	18	669D317010	SCREW	M2×0.4-5
○	19	703A004010	GRIP PAD	
○	20	769C003010	TRIPOD BASE	
○	21	701C025010	BACK UP BATTERY UNIT	
○	22	761D686010	BATTERY LID	
○	23	621C075010	EJECT LEVER	
○	24	621C076010	POWER LEVER	
○	25	734D521010	STILL ADJUST CONTROL KNOB	
○	26	761B199010	TRIGGER COVER	
○	27	772C014020	BELT GRIP	
○	28	734D523010	WIND NOISE FILTER SWITCH KNOB	
○	29	439P028010	ZOOM SWITCH	
	30	722D007010	SEAL	

2. Packing Parts



○ : NEW PART

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			PACKING PARTS	
○	1	801C078010	PACKING CASE	[HS-C35E]
○	1	801C078020	PACKING CASE	[HS-C35B]
○	2	803A237010	PACKING CUSHION	
○	3	803D233010	CUSHION SPACER	
○	4	831D268010	CUSHION SHEET	
○	5	831D177060	PACKING BAG	
○	6	702B760010	LENS-CAP	
			ACCESSORY – A	
○		872C031020	INSTRUCTION BOOK	ENGLISH VERSION
○		872C031030	INSTRUCTION BOOK	EURO-VERSION [HS-C35E]
○		872C031040	INSTRUCTION BOOK	EURO-VERSION [HS-C35E]
		851B635010	SHEET CAUTION	
		831D181020	PACKING BAG	
			ACCESSORY – B	
○	11	801C079010	SLEEV ACCESSORY-E	[HS-C35E]
○	11	801C079020	SLEEV ACCESSORY-E	[HS-C35B]
○	12	803A259010	CUSHION ACCESSORY	
○	13	801C080010	SHEET ACCESSORY	
	14	772P013030	SHOULDER BELT	
○	15	761C414010	JACK CAP	[HS-C35E]
	16	295P196010	RF CONVERTER UNIT	MDU-UD3605E[HS-C35B]
	17	----------	C VIDEO CASSETTE TAPE	SE-C30
○	18	939P400030	BATTERY PACK	
	19	----------	BATTERY	SUM-3(L)×1
○	20	939P412010	AC ADAPTER	[HS-C35E]
○	20	939P412020	AC ADAPTER	[HS-C35B]
	21	451C072010	AC JACK	
	22	283P035020	BACK UP BATTERY	Lithium battery CR2025
	23	242D231030	CABLE	S-CABLE 1.5m[HS-C35B]
	24	246C106010	CABLE AV-RCA(21P)	2m
	25	243C093020	DC CABLE	
	26	242D335010	CABLE	RF CABLE
	27	831D252010	PACKING BAG	
	28	----------	CASSETTE ADAPTER	
○	29	831D252040	PACKING BAG	

CAUTION !
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til lerverandoren.

3. ELECTRICAL PARTS

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			INTEGRATED CIRCUITS	
	IC0SA	263P151010	IC	CXD1255Q
	IC0SB	263P153010	IC	NJU6322PE
	IC0SC	263P110010	IC	MC74HC04F
○	IC0SD	272P604010	IC	CXA1439M
	IC0SE	263P148010	IC	CXD1250M
	IC1AA	272P482010	IC	AN2154FAP
○	IC1AB	272P204030	IC	LM2904M/LM2904PS
○	IC1AC	272P204030	IC	LM2904M/LM2904PS
	IC1AG	263P223010	IC	SC14S01F
	IC1AH	272P364010	IC	NJM2406F
	IC1AK	272P364010	IC	NJM2406F
○	IC1BA	272P587010	IC	TL8811F
○	IC1BB	272P587010	IC	TL8811F
○	IC1BC	272P587010	IC	TL8811F
○	IC1BD	272P586010	IC	CXL5505M
○	IC201	272P548010	IC	AN3348FBP
○	IC203	272P524020	IC	M52087FP
○	IC2A1	272P539010	IC	AN2265FAP
	IC2AA	272P480010	IC	M52940FP
	IC2AB	263P150010	IC	CXD1158M
	IC2AC	263P220010	IC	SC7SU04F
	IC2AD	263P223010	IC	SC14S01F
	IC2AE	263P223010	IC	SC14S01F
○	IC2AF	272P592010	IC	NJM2107F
○	IC2J1	272P489010	IC	VC2076MP
○	IC2M1	272P665010	IC	BA7602F
○	IC2M2	263P613010	IC	TC4013BF
○	IC2P1	272P586010	IC	CXL5505M
○	IC2S1	263P370010	IC	LC3564PML-12-TER
○	IC2S2	263P371010	IC	BU2728K
○	IC2S3	272P419020	IC	NJM2246M
○	IC2S4	272P545010	IC	TA8770F
○	IC2S5	272P546010	IC	MM1031XMR
	IC300	272P375010	IC	BA7757BK
○	IC350	272P543010	IC	M5246FP
○	IC351	272P373010	IC	M5222FP
○	IC3A0	272P541010	IC	AN3935NFHP
	IC3A1	272P376020	IC	XRA15218F
○	IC401	272P538010	IC	M5224FP
○	IC402	272P538010	IC	M5224FP
○	IC403	266P285010	IC	μPC358G
○	IC4A0	272P556010	IC	TA7291F(ER)
○	IC4B0	272P540010	IC	VC5035
○	IC4D0	272P542010	IC	LB1617M-TP-T1
○	IC5A0	263P522010	IC	M37405M5-132FP
○	IC5A1	263P440010	IC	S-8054HNM
○	IC5AA	263P392010	IC	SM6104BS1
○	IC5AB	263P517010	IC	CF77554FR
	IC5AC	263P220010	IC	SC7SU04F
○	IC5AD	263P521010	IC	M37420M6-454FP
○	IC5AE	272P554010	IC	HA13475MP
	IC5AF	272P358020	IC	TK10501M
○	IC5AH	263P373010	IC	S-81350HG-KD-T1
	IC6A1	272P522010	IC	M52056FP
	IC6A2	272P371010	IC	NJM2234M
	IC6J1	272P231020	IC	HA118054FP
○	IC7AA	263P513010	IC	M37450M4-477FP
	IC7AB	272P357010	IC	RST529C
	IC7AD	272P364010	IC	NJM2406F
○	IC7AG	263P437010	IC	NJU74HC74M
	IC7AH	263P146010	IC	CF77502FR
○	IC7EB	263P427010	IC	S-29181F
○	IC7EC	272P204030	IC	LM2904M/LM2904PS
	IC7ED	272P079010	IC	NJM2902M
○	IC7EE	263P660010	IC	SC14SU69F
	IC7EF	272P205020	IC	LM2903PS
	IC7EG	263P215010	IC	MC74HC4051F
○	IC7EH	272P204030	IC	LM2904M/LM2904PS
	IC7EJ	272P205020	IC	LM2903PS
	IC7KA	263P220010	IC	SC7SU04F
○	IC800	263P523010	IC	M37460M8-054FP
○	IC801	263P373020	IC	S-81350HG-KD-MT1
○	IC802	263P375010	IC	S-80725AL-AN-T1
○	IC803	263P440010	IC	S-8054HNM
○	IC901	272P294010	IC	M5236ML
○	IC902	272P547010	IC	MB3782PF-G-BND
			TRANSISTORS	
	Q 0SA	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 0SB	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 0SC	260P845010	TRANSISTOR(C)	IMX1
	Q 0SD	260P854030	TRANSISTOR(C)	2SC4098-Q
○	Q 0SG	260P870010	TRANSISTOR(C)	2SA1610Y34
○	Q 0SH	260P869010	TRANSISTOR(C)	2SC4176B35
○	Q 0SL	260P870010	TRANSISTOR(C)	2SA1610Y34
○	Q 0SM	260P869010	TRANSISTOR(C)	2SC4176B35
	Q 0SN	260P861020	TRANSISTOR(C)	2SA1577A-Q
	Q 0SW	260P859020	TRANSISTOR(C)	2SA1576-R
	Q 1AA	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 1AB	260P849010	TRANSISTOR(C)	IMZ1
	Q 1AC	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AD	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 1AE	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AF	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 1AG	260P849010	TRANSISTOR(C)	IMZ1
	Q 1AL	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AM	260P845010	TRANSISTOR(C)	IMX1
	Q 1AN	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AQ	260P863010	TRANSISTOR(C)	IMT1
	Q 1AR	260P845010	TRANSISTOR(C)	IMX1
	Q 1AS	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 1AT	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AV	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 1AX	260P861020	TRANSISTOR(C)	2SA1577A-Q
	Q 1AY	260P857010	TRANSISTOR(C)	DTC144EU
	Q 1AZ	260P845010	TRANSISTOR(C)	IMX1

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 1BA	260P863010	TRANSISTOR(C)	IMT1
Q 1BB	260P845010	TRANSISTOR(C)	IMX1
Q 1BC	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1BD	260P857010	TRANSISTOR(C)	DTC144EU
Q 1BE	260P857010	TRANSISTOR(C)	DTC144EU
Q 1CA	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1CB	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1CC	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1CD	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1CE	260P863010	TRANSISTOR(C)	IMT1
Q 1CG	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1CH	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1CJ	260P845010	TRANSISTOR(C)	IMX1
Q 1CM	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1CN	260P845010	TRANSISTOR(C)	IMX1
Q 1CQ	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1DA	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 1MA	260P849010	TRANSISTOR(C)	IMZ1
Q 1MB	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1MC	260P859020	TRANSISTOR(C)	2SA1576-R
Q 1ZA	260P845010	TRANSISTOR(C)	IMX1
Q 202	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 203	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 204	260P857010	TRANSISTOR(C)	DTC144EU
Q 221	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 222	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 223	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 224	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 225	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 226	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 227	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 228	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 230	260P851010	TRANSISTOR(C)	IMD2/XN4312
Q 251	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 252	260P861050	TRANSISTOR(C)	2SA1577A-Q
Q 254	260P857010	TRANSISTOR(C)	DTC144EU
Q 255	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 256	260P856010	TRANSISTOR(C)	DTA144EU
Q 257	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 258	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 261	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 262	260P857010	TRANSISTOR(C)	DTC144EU
Q 266	260P857010	TRANSISTOR(C)	DTC144EU
○ Q 291	260P859010	TRANSISTOR(C)	2SA1576-S
Q 292	260P859050	TRANSISTOR(C)	2SA1576-R
Q 293	260P857010	TRANSISTOR(C)	DTC144EU
Q 294	260P859050	TRANSISTOR(C)	2SA1576-R
Q 2A1	260P856010	TRANSISTOR(C)	DTA144EU
Q 2A2	260P857010	TRANSISTOR(C)	DTC144EU
Q 2A3	260P852010	TRANSISTOR(C)	FMG2/XN1213
○ Q 2A6	260P859010	TRANSISTOR(C)	2SA1576-S
Q 2AA	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2AB	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2AF	260P854030	TRANSISTOR(C)	2SC4098-Q

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2AG	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2B2	260P857010	TRANSISTOR(C)	DTC144EU
Q 2CB	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2CC	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2CD	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2CE	260P859020	TRANSISTOR(C)	2SA1576-R
Q 2CF	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2DA	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2E1	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2G1	260P857010	TRANSISTOR(C)	DTC144EU
Q 2G2	260P856010	TRANSISTOR(C)	DTA144EU
Q 2H0	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2H1	260P854030	TRANSISTOR(C)	2SC4098-Q
○ Q 2H2	260P859010	TRANSISTOR(C)	2SA1576-S
Q 2H3	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2H4	260P854030	TRANSISTOR(C)	2SC4098-Q
○ Q 2H5	260P859010	TRANSISTOR(C)	2SA1576-S
Q 2H6	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2H7	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2H8	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2H9	260P854030	TRANSISTOR(C)	2SC4098-Q
○ Q 2J1	260P859010	TRANSISTOR(C)	2SA1576-S
Q 2J2	260P852010	TRANSISTOR(C)	FMG2/XN1213
Q 2M0	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2M1	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2M2	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2M3	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2M4	260P857010	TRANSISTOR(C)	DTC144EU
○ Q 2P1	260P859030	TRANSISTOR(C)	2SA1576-S
Q 2P2	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2S0	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2S1	260P857010	TRANSISTOR(C)	DTC144EU
Q 2S2	260P854030	TRANSISTOR(C)	2SC4098-Q
○ Q 2S4	260P859010	TRANSISTOR(C)	2SA1576-S
Q 2001	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2002	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2003	260P856010	TRANSISTOR(C)	DTA144EU
Q 2004	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2005	260P856010	TRANSISTOR(C)	DTA144EU
Q 2006	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2007	260P856010	TRANSISTOR(C)	DTA144EU
Q 2008	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2012	260P854030	TRANSISTOR(C)	2SC4098-Q
Q 2014	260P857010	TRANSISTOR(C)	DTC144EU
Q 301	260P857010	TRANSISTOR(C)	DTC144EU
Q 302	260P856010	TRANSISTOR(C)	DTA144EU
Q 306	260P844010	TRANSISTOR(C)	FMW1
Q 310	260P867060	TRANSISTOR(C)	2SD1949-R
Q 311	260P861020	TRANSISTOR(C)	2SA1577A-Q
Q 350	260P855030	TRANSISTOR(C)	2SC4081-S
Q 351	260P845010	TRANSISTOR(C)	IMX1
Q 3A0	260P855030	TRANSISTOR(C)	2SC4081-S
Q 3A1	260P855030	TRANSISTOR(C)	2SC4081-S
Q 3A2	260P855030	TRANSISTOR(C)	2SC4081-S

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	Q 3A3	260P855030	TRANSISTOR(C)	2SC4081-S
	Q 3A4	260P857010	TRANSISTOR(C)	DTC144EU
	Q 402	260P857010	TRANSISTOR(C)	DTC144EU
	Q 403	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 407	260P859030	TRANSISTOR(C)	2SA1576-S
	Q 408	260P851010	TRANSISTOR(C)	IMD2/XN4312
	Q 409	260P857010	TRANSISTOR(C)	DTC144EU
	Q 410	260P856010	TRANSISTOR(C)	DTA144EU
	Q 411	260P856010	TRANSISTOR(C)	DTA144EU
	Q 4A1	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 571	268P044020	PHOTO INTERRUPTER	
○	Q 572	268P044020	PHOTO INTERRUPTER	
○	Q 573	268P041010	PHOTO TRANSISTOR	PN147
	Q 5A0	260P857010	TRANSISTOR(C)	DTC144EU
	Q 5A1	260P855070	TRANSISTOR(C)	2SD1819A-Q
	Q 5A3	260P856010	TRANSISTOR(C)	DTA144EU
	Q 5A4	260P853010	TRANSISTOR(C)	FMA2/XN1113
	Q 5AA	260P859020	TRANSISTOR(C)	2SA1576-R
	Q 5AB	260P859020	TRANSISTOR(C)	2SA1576-R
	Q 5AC	260P845010	TRANSISTOR(C)	IMX1
○	Q 5AD	260P854060	TRANSISTOR(C)	2SC4098-Q
	Q 5AE	260P859080	TRANSISTOR(C)	2SB1218A
	Q 5AF	260P847010	TRANSISTOR(C)	2SB1114-ZL
	Q 5AG	260P872020	TRANSISTOR(C)	DTC124EU
	Q 5AH	260P871020	TRANSISTOR(C)	DTA124EU
	Q 5AJ	260P845010	TRANSISTOR(C)	IMX1
	Q 5AK	260P845010	TRANSISTOR(C)	IMX1
	Q 5AT	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 5FA	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 5FB	260P845010	TRANSISTOR(C)	IMX1
	Q 5FC	260P847010	TRANSISTOR(C)	2SB1114-ZL
	Q 5FD	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 5FE	260P845010	TRANSISTOR(C)	IMX1
	Q 5FF	260P847010	TRANSISTOR(C)	2SB1114-ZL
	Q 6A1	260P852010	TRANSISTOR(C)	FMG2/XN1213
	Q 6A2	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 6A3	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 6A4	260P859010	TRANSISTOR(C)	2SA1576-S
	Q 6A5	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 6A7	260P857010	TRANSISTOR(C)	DTC144EU
	Q 6A8	260P857010	TRANSISTOR(C)	DTC144EU
	Q 6A9	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 6J1	260P859010	TRANSISTOR(C)	2SA1576-S
	Q 6J2	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 7AB	260P857010	TRANSISTOR(C)	DTC144EU
	Q 7AE	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 7EB	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 7EC	260P845010	TRANSISTOR(C)	IMX1
	Q 7ED	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 7EE	260P845010	TRANSISTOR(C)	IMX1
	Q 7EH	260P857010	TRANSISTOR(C)	DTC144EU
	Q 7EJ	260P857010	TRANSISTOR(C)	DTC144EU
	Q 7EK	260P857010	TRANSISTOR(C)	DTC144EU
	Q 7EL	260P854030	TRANSISTOR(C)	2SC4098-Q
	Q 800	260P861060	TRANSISTOR(C)	2SA1577-R
	Q 801	260P864010	TRANSISTOR(C)	2SK209GR
○	Q 802	260P857030	TRANSISTOR(C)	UN5213
	Q 803	260P856010	TRANSISTOR(C)	DTA144EU
	Q 804	260P854020	TRANSISTOR(C)	2SC4098-P
	Q 806	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 901	260P484020	TRANSISTOR	
	Q 902	260P861020	TRANSISTOR(C)	2SA1577A-Q
	Q 903	260P857010	TRANSISTOR(C)	DTC144EU
○	Q 904	260P873010	TRANSISTOR(C)	SAH02-V1L
○	Q 905	260P873010	TRANSISTOR(C)	SAH02-V1L
○	Q 906	260P701010	TRANSISTOR(C)	2SA1213-Y
			DIODES	
○	D 0SA	264P816080	DIODE(C)	RD10MB
	D 0SB	264P837010	DIODE(C)	MA141K
	D 0SC	264P814010	DIODE(C)	DAP202U
	D 0SD	264P830020	DIODE(C)	DA204U
	D 0SE	264P814010	DIODE(C)	DAP202U
	D 0SH	264P837010	DIODE(C)	MA141K
	D 0SJ	264P837010	DIODE(C)	MA141K
	D 0SK	264P837010	DIODE(C)	MA141K
	D 0SL	264P837010	DIODE(C)	MA141K
	D 0SM	264P837010	DIODE(C)	MA141K
	D 0SN	264P837010	DIODE(C)	MA141K
	D 1AA	264P814010	DIODE(C)	DAP202U
	D 201	264P814010	DIODE(C)	DAP202U
	D 202	264P814010	DIODE(C)	DAP202U
	D 203	264P814010	DIODE(C)	DAP202U
	D 204	264P814010	DIODE(C)	DAP202U
	D 251	264P828010	DIODE(C)	DAN202U
	D 2A1	264P828010	DIODE(C)	DAN202U
	D 2A2	264P828010	DIODE(C)	DAN202U
	D 2A4	264P828010	DIODE(C)	DAN202U
	D 2E1	264P828010	DIODE(C)	DAN202U
	D 2EA	264P834010	DIODE(C)	MA341
	D 2G1	264P814010	DIODE(C)	DAP202U
○	D 2S1	264P838010	DIODE(C)	1SV205
	D 2S2	264P828010	DIODE(C)	DAN202U
	D 2X1	264P816050	DIODE(C)	RD7.5MB2
	D 2X2	264P816050	DIODE(C)	RD7.5MB2
	D 2X3	264P816050	DIODE(C)	RD7.5MB2
	D 300	264P828010	DIODE(C)	DAN202U
	D 301	264P814010	DIODE(C)	DAP202U
	D 3A0	264P828010	DIODE(C)	DAN202U
	D 403	264P828010	DIODE(C)	DAN202U
	D 4A0	264P828010	DIODE(C)	DAN202U
	D 571	264P526010	LIGHT EMITTING DIODE	LN57
	D 5A0	264P814010	DIODE(C)	DAP202U
	D 5AA	264P814010	DIODE(C)	DAP202U
○	D 5AB	264P815010	DIODE(C)	RD2.4MB
	D 5AC	264P814010	DIODE(C)	DAP202U
	D 5AD	264P814010	DIODE(C)	DAP202U
	D 5AE	264P816050	DIODE(C)	RD7.5MB2
	D 5AF	264P816050	DIODE(C)	RD7.5MB2

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	D 6A1	264P833010	DIODE(C)	ND411G-2
	D 800	264P828010	DIODE(C)	DAN202U
	D 801	264P833010	DIODE(C)	ND411G-2
	D 802	264P828010	DIODE(C)	DAN202U
○	D 803	264P839010	DIODE(C)	LN1351C
	D 804	264P830020	DIODE(C)	DA204U
	D 805	264P830020	DIODE(C)	DA204U
	D 903	264P814030	DIODE(C)	MA142WA
	D 904	264P814030	DIODE(C)	MA142WA
	D 905	264P814010	DIODE(C)	DAP202U
	D 910	264P551010	DIODE	RK13
			FILTERS	
	BPF3A0	409P620010	LOW PASS FILTER	
	BPF3A1	409P621010	LOW PASS FILTER	
	BPF6A1	409P552010	BAND PASS FILTER(C)	
	BPF6A2	409P625010	BAND PASS FILTER	
	CF800	299P126010	CERAMIC RESONATOR(C)	
○	FL401	299P146020	FILTER	HAF2136
○	LF0SA	409P661010	LOW PASS FILTER(C)	
	LF1AB	409P590010	LOW PASS FILTER	
	LF1AD	409P613010	LOW PASS FILTER	
	LF1AE	409P592010	LOW PASS FILTER	
○	LF1BA	409P617010	LOW PASS FILTER(C)	
	LF2AB	409P594010	LOW PASS FILTER	
○	LF5AA	409P660010	LOW PASS FILTER(C)	
	LPF2A1	409P607010	LOW PASS FILTER	
	LPF2A2	409P517010	LOW PASS FILTER(C)	
	LPF6A1	409P520010	LOW PASS FILTER(C)	
	LPF6A2	409P626010	LOW PASS FILTER	
			DELAY LINES	
○	DE251	337P170010	DELAY LINE(C)	TG354ENI-
○	DE252	337P170010	DELAY LINE(C)	TG354ENI-
	DL6J1	337P146010	DELAY LINE	
			COILS	
	L 0SA	325C241070	COIL(C)	22 μH-K
	L 0SB	325C241070	COIL(C)	22 μH-K
	L 0SE	325C140030	COIL(C)	1.5 μH-M 322522
	L 0SF	325C140030	COIL(C)	1.5 μH-M 322522
	L 0SG	325C140030	COIL(C)	1.5 μH-M 322522
	L 0SH	325C241070	COIL(C)	22 μH-K
○	L 0SJ	325C240050	COIL(C)	2.2 μH-M 322522
	L 1BA	325C242010	COIL(C)	47 μH-K
	L 1BB	325C241070	COIL(C)	22 μH-K
	L 1BC	325C241070	COIL(C)	22 μH-K
	L 1ZA	325C241070	COIL(C)	22 μH-K
○	L 201	325C147080	COIL(C)	180 μH-J
	L 203	325C243000	COIL(C)	270 μH-K
○	L 204	325C147050	COIL(C)	100 μH-J
○	L 206	325C146030	COIL(C)	10 μH-J
	L 207	325C243000	COIL(C)	270 μH-K

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	L 208	325C145070	COIL(C)	3.3 μH-J
	L 220	325C242050	COIL(C)	100 μH-K
	L 221	325C242050	COIL(C)	100 μH-K
	L 222	325C242050	COIL(C)	100 μH-K
○	L 223	325C146030	COIL(C)	10 μH-J
	L 225	325C242050	COIL(C)	100 μH-K
○	L 251	325C242040	COIL(C)	82 μH-K
○	L 254	325C146050	COIL(C)	15 μH-J
	L 255	325C142000	COIL(C)	39 μH-K
○	L 256	325C146030	COIL(C)	10 μH-J
○	L 258	325C146060	COIL(C)	18 μH-J
○	L 259	325C147010	COIL(C)	47 μH-J
	L 291	325C242050	COIL(C)	100 μH-K
○	L 292	325C146030	COIL(C)	10 μH-J
○	L 293	325C181000	COIL(C)	5.6 μH-K
	L 2A0	325C142050	COIL(C)	100 μH-K
	L 2A1	325C142050	COIL(C)	100 μH-K
○	L 2A2	325C147050	COIL(C)	100 μH-J
○	L 2A3	325C146070	COIL(C)	22 μH-J
○	L 2A4	325C147010	COIL(C)	47 μH-J
○	L 2A6	325C146030	COIL(C)	10 μH-J
	L 2AA	325C241070	COIL(C)	22 μH-K
○	L 2AB	325C242040	COIL(C)	82 μH-K
	L 2AC	325C241070	COIL(C)	22 μH-K
○	L 2BA	325C242040	COIL(C)	82 μH-K
	L 2H0	325C242050	COIL(C)	100 μH-K
	L 2J1	325C242050	COIL(C)	100 μH-K
○	L 2P1	325C242020	COIL(C)	56 μH-K
○	L 2P2	325C146060	COIL(C)	18 μH-J
○	L 2P3	325C147000	COIL(C)	39 μH-J
○	L 2P4	325C147010	COIL(C)	47 μH-J
	L 2S1	325C141030	COIL(C)	10 μH-K10/Ω.1K
	L 2S2	325C141030	COIL(C)	10 μH-K10/Ω.1K
○	L 2S3	325C181070	COIL(C)	22 μH-K
○	L 2S4	325C242040	COIL(C)	82 μH-K
○	L 2S5	325C242040	COIL(C)	82 μH-K
	L 2S7	325C242050	COIL(C)	100 μH-K
	L 2001	325C243000	COIL(C)	270 μH-K
○	L 2002	325C146030	COIL(C)	10 μH-J
○	L 2003	325C146060	COIL(C)	18 μH-J
○	L 2005	325C147020	COIL(C)	56 μH-J
	L 2006	325C242050	COIL(C)	100 μH-K
	L 2007	325C243000	COIL(C)	270 μH-K
○	L 300	409P385030	TRAP COIL(C)	UYN-807
	L 301	409P622010	AUDIO BIAS OSC	
	L 303	325C243000	COIL(C)	270 μH-K
	L 3A0	325C142050	COIL(C)	100 μH-K
○	L 5A0	325C234080	COIL(C)	0.56 μH-K
○	L 5A1	325C234050	COIL(C)	0.33 μH-K
	L 5AA	325C241070	COIL(C)	22 μH-K
	L 5AC	325C241070	COIL(C)	22 μH-K
	L 5AD	325C241070	COIL(C)	22 μH-K
○	L 6A1	325C146090	COIL(C)	33 μH-J
	L 6A2	325C242050	COIL(C)	100 μH-K

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	L 6A3	325C242050	COIL(C)	100 μ H-K
	L 6A5	325C242050	COIL(C)	100 μ H-K
○	L 6J1	325C146070	COIL(C)	22 μ H-J
	L 6J2	325C242050	COIL(C)	100 μ H-K
○	L 6J3	325C146050	COIL(C)	15 μ H-J
	L 7AA	325C242050	COIL(C)	100 μ H-K
	L 800	325C181050	COIL(C)	15 μ H-K
	L 902	351P063010	CHOKE COIL	
	L 903	351P063010	CHOKE COIL	
○	L 904	351P056030	CHOKE COIL	RCR-875D-151K
○	L 905	351P056030	CHOKE COIL	RCR-875D-151K
	L 906	325C242050	COIL(C)	100 μ H-K
	L 907	325C242050	COIL(C)	100 μ H-K
	VL6J1	409P390040	VARIABLE COIL	S-5LD3
			TRANSFORMERS	
○	T 901	409P638010	TRANSFORMER	MC-100C
			VARIABLE RESISTORS	
	VR0SA	127C220090	VR-SEMIFIXED(C)	1/10W B20KΩ-N
	VR0SB	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1AA	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1AB	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR1AE	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1AF	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1AG	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1AH	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR1AJ	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR1AS	127C220090	VR-SEMIFIXED(C)	1/10W B20KΩ-N
	VR1AT	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR1BA	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR1BB	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR1BC	127C220040	VR-SEMIFIXED(C)	1/10W B1KΩ-N
	VR1BD	127C220060	VR-SEMIFIXED(C)	1/10W B3KΩ-N
	VR201	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR2A0	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR2A1	127C220090	VR-SEMIFIXED(C)	1/10W B20KΩ-N
	VR2A2	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR2A3	127C220090	VR-SEMIFIXED(C)	1/10W B20KΩ-N
	VR2A4	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR2A5	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR2A6	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR2A7	127C220040	VR-SEMIFIXED(C)	1/10W B1KΩ-N
	VR2A8	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR2A9	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR2AA	127C220060	VR-SEMIFIXED(C)	1/10W B3KΩ-N
	VR2AB	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR2EC	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR2ED	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR2FA	127C220040	VR-SEMIFIXED(C)	1/10W B1KΩ-N
	VR2H0	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR2J1	127C220050	VR-SEMIFIXED(C)	1/10W B2KΩ-N
	VR2P1	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR2S0	127C221020	VR-SEMIFIXED(C)	1/10W B100KΩ-N
	VR2S2	127C220050	VR-SEMIFIXED(C)	1/10W B2KΩ-N
○	VR2X1	129C139060	VR-PCB	
	VR301	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR3A0	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR3A1	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR3A2	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR3A3	127C220080	VR-SEMIFIXED(C)	1/10W B10KΩ-N
	VR3A4	127C220070	VR-SEMIFIXED(C)	1/10W B5KΩ-N
	VR5A0	127C221020	VR-SEMIFIXED(C)	1/10W B100KΩ-N
	VR6A1	127C221010	VR-SEMIFIXED(C)	1/10W B50KΩ-N
	VR6A2	127C221020	VR-SEMIFIXED(C)	1/10W B100KΩ-N
	VR6J1	127C220040	VR-SEMIFIXED(C)	1/10W B1KΩ-N
	VR800	127C221020	VR-SEMIFIXED(C)	1/10W B100KΩ-N
	VR901	127C220060	VR-SEMIFIXED(C)	1/10W B3KΩ-N
			RESISTORS	
	R 0SA	103P506010	RESISTOR(C)	1/20W 1MΩ-J
	R 0SB	103P502020	RESISTOR(C)	1/20W 560Ω-J
	R 0SC	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 0SE	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 0SF	103P502050	RESISTOR(C)	1/20W 1KΩ-J
	R 0SG	103P502050	RESISTOR(C)	1/20W 1KΩ-J
	R 0SH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
	R 0SJ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
	R 0SM	103P502020	RESISTOR(C)	1/20W 560Ω-J
	R 0SN	103P502020	RESISTOR(C)	1/20W 560Ω-J
	R 0SP	103P502000	RESISTOR(C)	1/20W 390Ω-J
	R 0SQ	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
	R 0SR	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 0SU	103P509050	RESISTOR(C)	0Ω RM1608
	R 0TA	103P500010	RESISTOR(C)	1/20W 10Ω-J
	R 0TB	103P500010	RESISTOR(C)	1/20W 10Ω-J
	R 0TC	103P501040	RESISTOR(C)	1/20W 120Ω-J
	R 0TG	103P500090	RESISTOR(C)	1/20W 47Ω-J
	R 0TH	103P506010	RESISTOR(C)	1/20W 1MΩ-J
	R 0TJ	103P504030	RESISTOR(C)	1/20W 33KΩ-J
	R 0TK	103P505020	RESISTOR(C)	1/20W 180KΩ-J
	R 0TL	103P504020	RESISTOR(C)	1/20W 27KΩ-J
	R 0TM	103P502000	RESISTOR(C)	1/20W 390Ω-J
	R 0TQ	103P506010	RESISTOR(C)	1/20W 1MΩ-J
	R 0TR	103P504020	RESISTOR(C)	1/20W 27KΩ-J
	R 0TS	103P504020	RESISTOR(C)	1/20W 27KΩ-J
	R 0TT	103P505040	RESISTOR(C)	1/20W 270KΩ-J
	R 0TU	103P504040	RESISTOR(C)	1/20W 39KΩ-J
	R 0TV	103P503090	RESISTOR(C)	1/20W 15KΩ-J
	R 0TW	103P503090	RESISTOR(C)	1/20W 15KΩ-J
	R 0TX	103P504090	RESISTOR(C)	1/20W 100KΩ-J
	R 0TY	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
	R 0UB	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 0UC	103P500090	RESISTOR(C)	1/20W 47Ω-J
	R 0UD	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 0UE	103P504010	RESISTOR(C)	1/20W 22KΩ-J
	R 0UF	103P504010	RESISTOR(C)	1/20W 22KΩ-J
	R 0UH	103P503070	RESISTOR(C)	1/20W 10KΩ-J
	R 0UU	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 0UV	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 0UW	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0UX	103P500050	RESISTOR(C)	1/20W 22Ω-J
R 0UY	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 0VG	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 0VM	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 0VN	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 0VP	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 0VR	103P509050	RESISTOR(C)	0Ω RM1608
R 0VV	103P509050	RESISTOR(C)	0Ω RM1608
R 0VW	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1AA	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1AB	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 1AC	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1AF	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 1AH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1AL	103P509050	RESISTOR(C)	0Ω RM1608
R 1AM	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 1AN	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1AP	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1AQ	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 1AR	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1AT	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1AU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1AV	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1AX	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1AY	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 1BM	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 1BP	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1BQ	103P505070	RESISTOR(C)	1/20W 470KΩ-J
R 1BR	103P505070	RESISTOR(C)	1/20W 470KΩ-J
R 1BS	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 1BT	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 1BU	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 1BW	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 1BX	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 1BZ	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 1CA	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 1CB	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 1CC	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 1CD	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1CE	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 1CF	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1CG	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1CH	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1CM	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1CN	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1CP	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 1CQ	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 1CR	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 1CZ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1DJ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1DK	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 1DM	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 1DN	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 1DP	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1DQ	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1DT	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1DU	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1DV	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1DW	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1DZ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1EA	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1EB	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 1EC	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 1EG	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1EQ	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1ER	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 1ES	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 1ET	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1EW	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 1EY	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1EZ	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1FA	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1FB	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 1FC	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 1FP	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1FQ	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1FS	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1FU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1FW	103P505050	RESISTOR(C)	1/20W 330KΩ-J
R 1FX	103P506000	RESISTOR(C)	1/20W 820KΩ-J
R 1FY	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 1FZ	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 1GA	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 1GB	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 1GC	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1GD	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 1GE	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1GN	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 1GP	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1GQ	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 1GT	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1GW	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1GX	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1GY	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 1GZ	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 1HA	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1HB	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 1HC	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1HD	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1HE	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 1HF	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 1HG	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 1JA	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1JB	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1JC	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JD	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 1JE	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1JF	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JG	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JH	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1JL	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1JM	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1JN	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JP	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JQ	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1JU	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1JV	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 1JW	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 1JX	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JY	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 1JZ	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 1KA	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1KD	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 1KE	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1KF	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 1KG	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1KH	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 1KJ	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 1KM	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1KN	103P509050	RESISTOR(C)	0Ω RM1608
R 1KP	103P509050	RESISTOR(C)	0Ω RM1608
R 1KQ	103P509050	RESISTOR(C)	0Ω RM1608
R 1KR	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 1KT	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 1KW	103P505060	RESISTOR(C)	1/16W 390K
R 1KX	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1KY	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 1MA	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 1MB	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 1MF	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1MG	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 1MH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 1MJ	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 1MK	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1ML	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 1ZA	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 1ZB	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 1ZC	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 1ZD	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 1ZE	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 1ZF	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 1ZG	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 201	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 202	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 205	103P509050	RESISTOR(C)	0Ω RM1608
R 207	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 209	103P509050	RESISTOR(C)	0Ω RM1608
R 211	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 212	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 215	103P509050	RESISTOR(C)	0Ω RM1608

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 217	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 219	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 220	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 224	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 225	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 226	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 228	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 229	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 230	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 231	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 232	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 233	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 234	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 235	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 236	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 237	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 238	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 239	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 240	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 241	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 242	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 243	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 244	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 245	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 246	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 247	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 248	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 249	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 250	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 251	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 252	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 253	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 254	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 255	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 256	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 257	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 258	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 259	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 260	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 261	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 262	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 264	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 265	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 266	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 267	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 268	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 269	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 271	103P505070	RESISTOR(C)	1/20W 470KΩ-J
R 272	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 273	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 274	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 275	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 276	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 277	103P501070	RESISTOR(C)	1/20W 220Ω-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 278	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 279	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 281	103P509050	RESISTOR(C)	0Ω RM1608
R 282	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 283	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 284	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 285	103P509050	RESISTOR(C)	0Ω RM1608
R 286	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 287	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 288	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 289	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 290	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 291	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 292	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 293	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 294	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 295	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 296	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 297	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 298	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 299	103P504050	RESISTOR(C)	1/20W 47KΩ-J
○ R 2A0	103P506030	RESISTOR(C)	1/16W1.5MK
R 2A1	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2A2	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2A3	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2A4	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2A5	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2AC	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2AD	103P500050	RESISTOR(C)	1/20W 22Ω-J
R 2AP	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2AQ	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2AR	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2AS	103P500050	RESISTOR(C)	1/20W 22Ω-J
R 2AT	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2AU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2B1	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2B2	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2B3	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 2B4	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 2B5	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 2B7	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 2B8	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2B9	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BA	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BB	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BC	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BD	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BH	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 2BJ	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2BK	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2BL	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2BN	103P505090	RESISTOR(C)	1/20W 680KΩ-J
R 2BS	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2BW	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 2BX	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2C4	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2C5	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2C9	103P471050	RESISTOR(C)	1/10W 390-F
R 2CF	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2CM	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2CU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2CV	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2CW	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 2D2	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2D3	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2DD	103P509050	RESISTOR(C)	0Ω RM1608
R 2DH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2DJ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2DK	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 2DU	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2DZ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2E1	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 2E2	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 2E4	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2E5	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2E6	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2EB	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2EC	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2ED	103P500050	RESISTOR(C)	1/20W 22Ω-J
R 2EU	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 2EZ	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2F2	103P509050	RESISTOR(C)	0Ω RM1608
R 2F3	103P509050	RESISTOR(C)	0Ω RM1608
R 2G1	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2G2	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2G3	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 2G4	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 2G5	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 2G6	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 2GA	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2GB	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2GC	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2GD	103P509050	RESISTOR(C)	0Ω RM1608
R 2GE	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 2GF	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 2GH	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2GJ	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2GK	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2GL	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2GM	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2GN	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2GP	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 2GQ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2GR	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2H0	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2H1	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2H2	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2H5	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 2H8	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2HA	103P509050	RESISTOR(C)	0Ω RM1608
R 2HB	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2HC	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2HF	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2HG	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 2HH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2HJ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2HK	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2HL	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2HM	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 2HN	103P509050	RESISTOR(C)	0Ω RM1608
R 2J2	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 2J4	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2K4	103P501050	RESISTOR(C)	1/20W 150Ω-J
R 2K5	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 2K6	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 2K7	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2K8	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2L0	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 2L2	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2M0	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2M1	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2M2	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2M3	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2M4	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2M5	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 2M6	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2M7	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2M9	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2N0	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2N1	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 2N2	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2N3	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2N4	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2N5	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 2N6	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2N7	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2N8	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2N9	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2P1	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2P2	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 2P3	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 2P4	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 2P5	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 2P6	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 2P7	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2P8	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2P9	103P509050	RESISTOR(C)	0Ω RM1608
R 2Q0	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 2S1	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2S2	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 2S3	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2S6	103P505040	RESISTOR(C)	1/20W 270KΩ-J
R 2S9	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2T0	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2T1	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 2T2	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2T3	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2T6	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2T7	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2T9	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2U0	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2V0	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2V1	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2V4	103P509050	RESISTOR(C)	0Ω RM1608
R 2V6	103P509050	RESISTOR(C)	0Ω RM1608
R 2W0	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2W1	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 2W2	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 2W3	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 2W4	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 2W5	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2W6	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 2W7	103P501000	RESISTOR(C)	1/20W 56Ω-J
R 2W8	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 2W9	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 2X2	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 2X3	103P509090	RESISTOR(C)	1/20W 75Ω-J
R 2001	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2002	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 2003	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 2004	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 2005	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 2006	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 2007	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 2008	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 2009	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2010	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2012	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2013	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 2014	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 2015	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 2016	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 2017	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 2019	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2020	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2021	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2022	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 2023	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 2027	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 2028	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 2030	103P509050	RESISTOR(C)	0Ω RM1608
R 2035	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 2040	103P509050	RESISTOR(C)	0Ω RM1608
R 300	103P505030	RESISTOR(C)	1/20W 220KΩ-J
R 301	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 302	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 303	103P504010	RESISTOR(C)	1/20W 22KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 304	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 306	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 307	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 308	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 309	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 310	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 311	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 312	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 313	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 314	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 315	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 316	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 317	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 318	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 319	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 320	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 321	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 322	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 323	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 324	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 325	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 326	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 327	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 328	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 330	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 331	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
R 350	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 351	103P502020	RESISTOR(C)	1/20W 560Ω-J
R 352	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 353	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 354	103P505060	RESISTOR(C)	1/16W390K
R 355	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 356	103P505060	RESISTOR(C)	1/16W 390K
R 357	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 358	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 359	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 360	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 361	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 362	103P505000	RESISTOR(C)	1/20W 120KΩ-J
R 363	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 364	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 365	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 366	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 367	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 368	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 369	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 370	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 392	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 3A0	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 3A2	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 3A4	103P506000	RESISTOR(C)	1/20W 820KΩ-J
R 3A5	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 3A6	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 3A7	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 3A8	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 3B0	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 3B1	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 3B3	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 3B4	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 3B6	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 3B8	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 3B9	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 3C0	103P502070	RESISTOR(C)	1/20W 1.5KΩ-J
R 3C1	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 3C2	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 3C3	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 3C6	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 3C7	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 3C8	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 3C9	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 3D0	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 3D1	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 3D2	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 3D3	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 3D4	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 3D5	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 3D6	103P501040	RESISTOR(C)	1/20W 120Ω-J
R 3D7	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 3D8	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 3D9	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 3E1	103P509050	RESISTOR(C)	0Ω RM1608
R 3E2	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 3X0	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 3X1	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 401	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 402	103P505010	RESISTOR(C)	1/20W 150KΩ-J
R 403	103P505050	RESISTOR(C)	1/20W 330KΩ-J
R 404	103P505010	RESISTOR(C)	1/20W 150KΩ-J
R 405	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 406	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 407	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 408	103P505050	RESISTOR(C)	1/20W 330KΩ-J
R 409	103P509050	RESISTOR(C)	0Ω RM1608
R 410	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 411	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 413	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 416	103P505030	RESISTOR(C)	1/20W 220KΩ-J
R 417	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 420	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 422	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 424	103P509050	RESISTOR(C)	0Ω RM1608
R 425	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 426	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 427	103P505080	RESISTOR(C)	1/20W 560KΩ-J
R 428	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 429	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 430	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 431	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	R 432	103P504090	RESISTOR(C)	1/20W 100KΩ-J
	R 434	103P506010	RESISTOR(C)	1/20W 1MΩ-J
	R 435	103P503070	RESISTOR(C)	1/20W 10KΩ-J
	R 439	103P504090	RESISTOR(C)	1/20W 100KΩ-J
	R 448	103P504020	RESISTOR(C)	1/20W 27KΩ-J
	R 449	103P504090	RESISTOR(C)	1/20W 100KΩ-J
	R 452	103P501070	RESISTOR(C)	1/20W 220Ω-J
	R 455	103P504090	RESISTOR(C)	1/20W 100KΩ-J
	R 456	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 457	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 460	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 461	103P502050	RESISTOR(C)	1/20W 1KΩ-J
	R 462	103P504080	RESISTOR(C)	1/20W 82KΩ-J
	R 4A0	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 4A1	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 4A2	103P503070	RESISTOR(C)	1/20W 10KΩ-J
	R 4A3	103P503070	RESISTOR(C)	1/20W 10KΩ-J
	R 4B0	103P505030	RESISTOR(C)	1/20W 220KΩ-J
	R 4B1	103P505040	RESISTOR(C)	1/20W 270KΩ-J
	R 4B2	103P504020	RESISTOR(C)	1/20W 27KΩ-J
	R 4B3	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
	R 4B7	103P50804C	RESISTOR(C)	1/20W 2.2Ω-K
	R 4B8	103P50804C	RESISTOR(C)	1/20W 2.2Ω-K
	R 4B9	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
	R 4C0	103P50009C	RESISTOR(C)	1/20W 47Ω-J
	R 4C1	103P501050	RESISTOR(C)	1/20W 150Ω-J
○	R 4C2	103P50805C	RESISTOR(C)	1/16W 2.7Ω-K
○	R 4C3	103P50805C	RESISTOR(C)	1/16W 2.7Ω-K
○	R 4C4	103P50805C	RESISTOR(C)	1/16W 2.7Ω-K
○	R 4C5	103P50805C	RESISTOR(C)	1/16W 2.7Ω-K
	R 4C6	103P501060	RESISTOR(C)	1/20W 180Ω-J
	R 4C7	103P504030	RESISTOR(C)	1/20W 33KΩ-J
	R 4C9	103P504010	RESISTOR(C)	1/20W 22KΩ-J
	R 4D0	103P504010	RESISTOR(C)	1/20W 22KΩ-J
	R 4D1	103P504030	RESISTOR(C)	1/20W 33KΩ-J
	R 4D2	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
	R 4D3	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
	R 4D4	103P508040	RESISTOR(C)	1/20W 2.2Ω-K
	R 4D5	103P504050	RESISTOR(C)	1/20W 47KΩ-J
	R 4D6	103P501070	RESISTOR(C)	1/20W 220Ω-J
○	R 571	103P352020	RESISTOR(C)	1/8W 560Ω-J
	R 572	103P359050	RESISTOR(C)	1/8W 0Ω
	R 573	103P359050	RESISTOR(C)	1/8W 0Ω
○	R 5A0	103P400060	RESISTOR(C)	1/10W27Ω-J
○	R 5A1	103P351020	RESISTOR(C)	1/8W 82Ω-J
	R 5A2	103P501030	RESISTOR(C)	1/20W 100Ω-J
	R 5A4	103P504040	RESISTOR(C)	1/20W 39KΩ-J
	R 5A5	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
	R 5A6	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
	R 5A7	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
	R 5AA	103P503070	RESISTOR(C)	1/20W 10KΩ-J
	R 5AB	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
	R 5AC	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
	R 5AG	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
	R 5AH	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 5AJ	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 5AK	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5AL	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 5AM	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 5AN	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5AP	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5AQ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5AR	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5AS	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5AT	103P505070	RESISTOR(C)	1/20W 470KΩ-J
R 5AU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5AV	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 5AW	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5AX	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5AY	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5AZ	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5B2	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5B4	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5B5	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 5B6	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 5B7	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 5B8	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5B9	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5BA	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5BB	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5BC	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5BF	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 5BG	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BH	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BJ	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 5BK	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 5BL	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 5BM	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5BN	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BP	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BQ	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BR	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BS	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BT	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BU	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BV	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5BW	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 5BY	103P500080	RESISTOR(C)	1/20W 39Ω-J
R 5C1	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5C2	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 5C3	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 5C4	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5CA	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 5CB	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 5CC	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 5CD	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 5CF	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 5CG	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 5CH	103P503070	RESISTOR(C)	1/20W 10KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 5CJ	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 5CK	103P505040	RESISTOR(C)	1/20W 270KΩ-J
R 5CY	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 5CZ	103P504080	RESISTOR(C)	1/20W 82KΩ-J
R 5DA	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 5DB	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 5EB	103P509050	RESISTOR(C)	0Ω RM1608
R 5ED	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 5FA	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 5FB	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 5FC	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 5FD	103P505030	RESISTOR(C)	1/20W 220KΩ-J
R 5FE	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 5FF	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 5FG	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5FH	103P509050	RESISTOR(C)	0Ω RM1608
R 5FJ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5FK	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 5FL	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 5FM	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 5FN	103P505030	RESISTOR(C)	1/20W 220KΩ-J
R 5FP	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 5FQ	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 5FR	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5FS	103P509050	RESISTOR(C)	0Ω RM1608
R 5FT	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 5X1	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6A1	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6A2	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6A6	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6A7	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6A8	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6A9	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6B0	103P503040	RESISTOR(C)	1/20W 5.6KΩ-J
R 6B1	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6B2	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6B3	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 6B4	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 6B5	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 6B6	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 6B7	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 6B8	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 6B9	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 6C3	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 6C4	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6C5	103P502080	RESISTOR(C)	1/20W 2.7KΩ-J
R 6C6	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 6C7	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 6D1	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 6D2	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6D3	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 6D4	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 6D5	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 6D6	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 6D7	103P501060	RESISTOR(C)	1/20W 180Ω-J
R 6D8	103P502040	RESISTOR(C)	1/20W 820Ω-J
R 6D9	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 6E2	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 6E3	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 6E4	103P503000	RESISTOR(C)	1/20W 2.7KΩ-J
R 6E5	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 6E6	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 6E7	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 6E8	103P509050	RESISTOR(C)	0Ω RM1608
R 6E9	103P509050	RESISTOR(C)	0Ω RM1608
R 6J1	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 6J2	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 6J3	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6J4	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 6J5	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 6J6	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 6J7	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 6K0	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 6K1	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 6K2	103P501090	RESISTOR(C)	1/20W 330Ω-J
R 6K3	103P501010	RESISTOR(C)	1/20W 68Ω-J
R 6K4	103P501080	RESISTOR(C)	1/20W 270Ω-J
R 7AB	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7AC	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AD	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7AG	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AH	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AJ	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AK	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AN	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 7AP	103P500010	RESISTOR(C)	1/20W 10Ω-J
R 7AT	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AU	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 7AZ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7BA	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7BD	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 7BE	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 7BP	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 7BQ	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 7BV	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7BW	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 7BX	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 7BY	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 7BZ	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 7CB	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7EC	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 7ED	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 7EE	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 7EF	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 7EG	103P502010	RESISTOR(C)	1/20W 470Ω-J
R 7EJ	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7EK	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7EL	103P504010	RESISTOR(C)	1/20W 22KΩ-J

○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 7EM	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 7EN	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 7EP	103P502090	RESISTOR(C)	1/20W 2.2KΩ-J
R 7EQ	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 7ER	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J
R 7ES	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 7EU	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 7EV	103P502030	RESISTOR(C)	1/20W 680Ω-J
R 7EW	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7EX	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7EY	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7EZ	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7FH	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7FJ	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 7FK	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7FL	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7FN	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 7FP	103P504040	RESISTOR(C)	1/20W 39KΩ-J
R 7FR	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7FS	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7FT	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7FU	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 7FV	103P503020	RESISTOR(C)	1/20W 3.9KΩ-J
R 7GB	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 7GC	103P504030	RESISTOR(C)	1/20W 33KΩ-J
R 7GD	103P501030	RESISTOR(C)	1/20W 100Ω-J
R 7GE	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 7KC	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 7KE	103P505070	RESISTOR(C)	1/20W 470KΩ-J
R 800	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 801	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 802	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 803	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 804	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 805	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 806	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 807	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 808	103P504060	RESISTOR(C)	1/20W 56KΩ-J
R 809	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 810	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 812	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 813	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 814	103P506050	RESISTOR(C)	1/20W 2.2MΩ-J
R 815	103P504010	RESISTOR(C)	1/20W 22KΩ-J
○ R 816	103P506070	RESISTOR(C)	1/16W 3.3MΩ-K
R 817	103P506010	RESISTOR(C)	1/20W 1MΩ-J
R 818	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 820	103P505020	RESISTOR(C)	1/20W 180KΩ-J
R 821	103P505050	RESISTOR(C)	1/20W 330KΩ-J
R 822	103P502050	RESISTOR(C)	1/20W 1KΩ-J
R 823	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 824	103P502060	RESISTOR(C)	1/20W 1.2KΩ-J
R 825	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 826	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 827	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 829	103P503060	RESISTOR(C)	1/20W 8.2KΩ-J
R 832	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 833	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 834	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 835	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 836	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 837	103P504000	RESISTOR(C)	1/20W 18KΩ-J
R 840	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 841	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 842	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 843	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 844	103P509050	RESISTOR(C)	0Ω RM1608
○ R 845	103P506070	RESISTOR(C)	1/16W 3.3MΩ-K
○ R 846	103P506070	RESISTOR(C)	1/16W 3.3MΩ-K
R 847	103P504090	RESISTOR(C)	1/20W 100KΩ-J
R 848	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 849	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 850	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 851	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 852	103P504010	RESISTOR(C)	1/20W 22KΩ-J
R 853	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 901	103P501070	RESISTOR(C)	1/20W 220Ω-J
R 902	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 903	103P503050	RESISTOR(C)	1/20W 6.8KΩ-J
R 904	103P503080	RESISTOR(C)	1/20W 12KΩ-J
R 905	103P503010	RESISTOR(C)	1/20W 3.3KΩ-J
R 906	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 907	103P504020	RESISTOR(C)	1/20W 27KΩ-J
R 908	103P504070	RESISTOR(C)	1/20W 68KΩ-J
R 909	103P505010	RESISTOR(C)	1/20W 150KΩ-J
R 910	103P505060	RESISTOR(C)	1/16W390K
R 913	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 914	103P503070	RESISTOR(C)	1/20W 10KΩ-J
R 915	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 917	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 919	103P502000	RESISTOR(C)	1/20W 390Ω-J
R 920	103P402050	RESISTOR(C)	1/10W1KΩ-J
R 923	103P500090	RESISTOR(C)	1/20W 47Ω-J
R 924	103P504050	RESISTOR(C)	1/20W 47KΩ-J
R 925	103P503090	RESISTOR(C)	1/20W 15KΩ-J
R 926	103P503030	RESISTOR(C)	1/20W 4.7KΩ-J

CAPACITORS AND TRIMMERS

	154P324000	CAPACITOR(C)	SL50V150P-J
C 0SB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SC	154P341000	CAPACITOR(C)	CH50V 9P-C
C 0SE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SG	181P500030	CAPACITOR(C)	04W 6.3V47μF-M
C 0SH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
C 0SL	141P143050	CAPACITOR(C)	F50V 1000P-Z

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 0SM	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 0SN	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0SP	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 0SQ	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0SX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0SZ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 0TH	141P140090	CAPACITOR(C)	B50V 1000P-K
○	C 0TJ	181P509080	CAPACITOR(C)	04W 50V 1μF-M
	C 0TK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0TL	181P502060	CAPACITOR(C)	16V 47μF-M
○	C 0TM	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 0TN	181P504090	CAPACITOR(C)	35V 4.7μF-M
○	C 0TQ	181P509080	CAPACITOR(C)	04W 50V 1μF-M
○	C 0TR	181P509080	CAPACITOR(C)	04W 50V 1μF-M
	C 0TS	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 0TT	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 0TU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 0TV	181P509080	CAPACITOR(C)	04W 50V1μF-M
○	C 0TW	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 0UD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UE	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UG	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UK	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0UM	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UN	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 0UP	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0UQ	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0UR	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 0US	181P504090	CAPACITOR(C)	35V 4.7μF-M
	C 0UT	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UU	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0UW	189P123010	CAPACITOR(C)	16V 1μF-M
	C 0UX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 0VC	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 0VD	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 0VM	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 1AA	189P121060	CAPACITOR(C)	6.3V 22μF-M
	C 1AB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AE	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 1AF	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1AG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AH	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1AJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AK	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AL	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1AM	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1AN	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AP	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AQ	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1AR	141P143080	CAPACITOR(C)	F50V 0.01μF-Z

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 1AT	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AU	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AV	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AW	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1AY	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1AZ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1BB	181P512020	CAPACITOR(C)	04W 16V 4.7μF-M
	C 1BC	189P123070	CAPACITOR(C)	16V 10μF-M
	C 1BD	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1BE	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1BF	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1BG	181P507080	CAPACITOR(C)	4V 33μF-M
	C 1BH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1BJ	141P136040	CAPACITOR(C)	F25V/16V 2.2M
	C 1BK	189P122030	CAPACITOR(C)	10V 4.7μF-M
	C 1BW	154P344030	CAPACITOR(C)	CH50V 220P-J
	C 1BX	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1CE	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1CL	181P507080	CAPACITOR(C)	4V 33μF-M
	C 1CV	181P507080	CAPACITOR(C)	4V 33μF-M
	C 1CW	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1CZ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1DA	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 1DB	189P123040	C-TANTALUM(C)	16V 3.3M
	C 1DC	181P510010	CAPACITOR(C)	04W 6.3V 22μF-M
	C 1DD	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1DG	181P516010	CAPACITOR(C)	04W 50V 1MBP
	C 1DJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1DK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1DL	181P507080	CAPACITOR(C)	4V 33μF-M
	C 1EA	154P343050	CAPACITOR(C)	CH50V 100P-J
○	C 1EB	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 1EC	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1ED	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1EE	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1EF	154P342090	CAPACITOR(C)	CH50V 56P-J
	C 1EG	154P342010	CAPACITOR(C)	CH50V 27P-J
○	C 1EH	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 1EJ	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1EK	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1EL	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1EM	154P342090	CAPACITOR(C)	CH50V 56P-J
	C 1EN	154P342010	CAPACITOR(C)	CH50V 27P-J
○	C 1EP	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1EQ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1ER	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1ES	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1ET	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1EU	154P342010	CAPACITOR(C)	CH50V 27P-J
	C 1EV	154P342090	CAPACITOR(C)	CH50V 56P-J
	C 1EW	154P342010	CAPACITOR(C)	CH50V 27P-J
	C 1EY	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 1EZ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1FA	141P135080	CAPACITOR(C)	F25V 0.1μF-Z

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 1FB	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 1FC	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1FE	154P342090	CAPACITOR(C)	CH50V 56P-J
	C 1FF	154P342010	CAPACITOR(C)	CH50V 27P-J
	C 1FG	181P502040	CAPACITOR(C)	04W 16V 22μF-M
○	C 1FH	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1FK	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
○	C 1FL	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 1FM	154P343030	CAPACITOR(C)	CH50V 82P-J
○	C 1FN	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 1FP	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 1FR	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 1HA	141P136040	CAPACITOR(C)	F25V/16V 2.2M
○	C 1HB	141P136040	CAPACITOR(C)	F25V/16V 2.2M
	C 1HC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 1HD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1MA	181P510070	CAPACITOR(C)	04W 10V 10MM
	C 1MB	141P140090	CAPACITOR(C)	B50V 1000P-K
○	C 1MC	189P121030	CAPACITOR(C)	6.3V 6.8μF-M
	C 1ME	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 1NA	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
○	C 1ZA	189P121030	CAPACITOR(C)	6.3V 6.8μF-M
	C 200	154P353000	CAPACITOR(C)	SL50V 56P-J
	C 201	154P352000	CAPACITOR(C)	SL50V 22P-J
	C 202	154P354040	CAPACITOR(C)	SL50V 220P-J
	C 203	154P355000	CAPACITOR(C)	SL50V 390P-J
	C 204	154P354020	CAPACITOR(C)	SL50V 180P-J
	C 206	154P354080	CAPACITOR(C)	SL50V 330P-J
	C 207	154P354080	CAPACITOR(C)	SL50V 330P-J
	C 208	154P354040	CAPACITOR(C)	SL50V 220P-J
○	C 209	154P354060	CAPACITOR(C)	SL50V 270P-J
	C 210	154P355040	CAPACITOR(C)	SL25V 560P-J
	C 211	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 212	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 213	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 214	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 215	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 216	154P355040	CAPACITOR(C)	SL25V 560P-J
	C 217	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 218	154P355040	CAPACITOR(C)	SL25V 560P-J
	C 219	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 220	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 221	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 222	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 223	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 224	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 225	154P355040	CAPACITOR(C)	SL25V 560P-J
	C 226	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 227	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 228	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 229	154P355040	CAPACITOR(C)	SL25V 560P-J
	C 230	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 231	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 232	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 233	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 234	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 235	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 236	154P352020	CAPACITOR(C)	SL50V 27P-J
	C 237	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 238	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 239	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 240	154P352020	CAPACITOR(C)	SL50V 27P-J
	C 241	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 242	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 243	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 244	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 245	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 246	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 247	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 248	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 249	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 250	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 251	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 252	141P136030	CAPACITOR(C)	F16V 1μF-Z
○	C 253	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 254	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 255	154P351060	CAPACITOR(C)	SL50V 15P-J
	C 257	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 259	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 260	154P353060	CAPACITOR(C)	SL50V 100P-J
	C 261	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 262	141P137040	CAPACITOR(C)	B25V 0.022M
	C 263	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 265	154P353000	CAPACITOR(C)	SL50V 56P-J
	C 266	154P353000	CAPACITOR(C)	SL50V 56P-J
	C 267	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 268	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 270	154P355020	CAPACITOR(C)	SL50V 470P-J
○	C 271	154P353020	CAPACITOR(C)	SL50V 68P-J
	C 274	154P352080	CAPACITOR(C)	SL50V 47P-J
	C 276	154P351060	CAPACITOR(C)	SL50V 15P-J
	C 277	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 280	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 281	141P141070	CAPACITOR(C)	B50V 4700P-K
	C 282	141P142000	CAPACITOR(C)	B50V 8200P-K
	C 283	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 284	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 285	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 286	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 287	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 288	154P353000	CAPACITOR(C)	SL50V 56P-J
	C 289	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 291	154P352020	CAPACITOR(C)	SL50V 27P-J
	C 292	154P354000	CAPACITOR(C)	SL50V 150P-J
	C 293	154P354000	CAPACITOR(C)	SL50V 150P-J
	C 294	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 295	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 299	141P143080	CAPACITOR(C)	F50V 0.01μF-Z

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	C 2A0	181P508080	CAPACITOR(C)	04W 16V 10MM
○	C 2A1	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2A2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2A3	141P135010	CAPACITOR(C)	F25V 0.33μF-Z
	C 2A4	141P137080	CAPACITOR(C)	B50V 0.047M
	C 2A5	141P137080	CAPACITOR(C)	B50V 0.047M
	C 2A6	141P137040	CAPACITOR(C)	B25V 0.022M
○	C 2A7	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 2A8	181P508070	CAPACITOR(C)	04W 16V 4.7M
○	C 2A9	181P508070	CAPACITOR(C)	04W 16V 4.7M
	C 2AA	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2AB	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2AC	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 2AD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2AE	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 2AF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2AH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2AK	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2AL	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2AM	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2AN	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2AR	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 2AS	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2AT	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2AU	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 2AW	189P123070	CAPACITOR(C)	16V 10μF-M
	C 2AY	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2AZ	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
○	C 2B0	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2B1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2B2	154P335090	CAPACITOR(C)	CH50V 1000P-J
	C 2B3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2B4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2B5	154P351020	CAPACITOR(C)	SL50V 10P-J
	C 2B6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2B7	141P137040	CAPACITOR(C)	B25V 0.022M
	C 2B8	154P352060	CAPACITOR(C)	SL50V 39P-J
	C 2B9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2BA	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2BB	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2BF	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 2BJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2BM	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2BQ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2BR	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2BU	189P121060	CAPACITOR(C)	6.3V 22μF-M
	C 2BV	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2BW	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2BX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2C0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2C1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2C2	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 2C3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2C4	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2C5	154P353060	CAPACITOR(C)	SL50V 100P-J
	C 2C6	154P352020	CAPACITOR(C)	SL50V 27P-J
	C 2CA	154P342010	CAPACITOR(C)	CH50V 27P-J
	C 2CC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2CE	154P342010	CAPACITOR(C)	CH50V 27P-J
	C 2CH	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2CJ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2CK	141P133080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2CL	154P342010	CAPACITOR(C)	CH50V 27P-J
○	C 2CN	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2CP	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2CT	154P354080	CAPACITOR(C)	SL50V 330P-J
	C 2CU	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 2CV	154P341010	CAPACITOR(C)	CH50V 10P-C
	C 2CX	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2CY	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 2D0	154P354080	CAPACITOR(C)	SL50V 330P-J
	C 2D1	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2D2	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2D3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2D4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2D5	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 2D6	141P141050	CAPACITOR(C)	B50V 3300P-K
	C 2D7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2E1	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2E2	141P142010	CAPACITOR(C)	B25V 0.01μF-K
○	C 2E3	181P509080	CAPACITOR(C)	04W 50V 1μF-M
○	C 2E4	181P508070	CAPACITOR(C)	04W 16V 4.7M
	C 2EA	154P342070	CAPACITOR(C)	CH50V 47P-J
○	C 2F2	154P354060	CAPACITOR(C)	SL50V 270P-J
	C 2F4	154P352060	CAPACITOR(C)	SL50V 39P-J
	C 2F7	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 2FA	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 2FB	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 2FD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2FF	154P341030	CAPACITOR(C)	CH50V 12P-J
	C 2FG	154P341030	CAPACITOR(C)	CH50V 12P-J
	C 2FH	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2FJ	154P343030	CAPACITOR(C)	CH50V 82P-J
	C 2G1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2H0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2H1	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 2H2	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 2H3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2H4	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 2H5	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 2H7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2H8	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2H9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2HB	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 2HC	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 2HD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2HE	154P341090	CAPACITOR(C)	CH50V 22P-J
○	C 2J1	181P509020	CAPACITOR(C)	04W 35V 2.2M

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	C 2J2	181P509020	CAPACITOR(C)	04W 35V 2.2M
○	C 2J3	181P508070	CAPACITOR(C)	04W 16V 4.7M
	C 2J6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2J7	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 2J8	154P348040	CAPACITOR(C)	CH50V 150P-G
○	C 2J9	154P348040	CAPACITOR(C)	CH50V 150P-G
	C 2JA	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 2JB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 2K0	154P348060	CAPACITOR(C)	CH50V 220P-G
○	C 2K1	154P348010	CAPACITOR(C)	CH50V 82P-G
○	C 2K2	154P348070	CAPACITOR(C)	CH25VORCH50V
○	C 2K3	154P344010	CAPACITOR(C)	CH50V 180P-J
	C 2K4	154P342070	CAPACITOR(C)	CH50V 47P-J
	C 2K5	154P343090	CAPACITOR(C)	CH50V 150P-J
	C 2K6	154P344050	CAPACITOR(C)	CH25V-OR-50V
○	C 2K7	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 2K8	154P348040	CAPACITOR(C)	CH50V 150P-G
○	C 2K9	154P348040	CAPACITOR(C)	CH50V 150P-G
	C 2L5	154P343090	CAPACITOR(C)	CH50V 150P-J
	C 2M0	141P141030	CAPACITOR(C)	B50V 2200P-K
	C 2M1	154P355060	CAPACITOR(C)	SL25V 680P-J
	C 2M3	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 2M4	154P348070	CAPACITOR(C)	CH25V OR CH50V
	C 2M6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2M7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2M8	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2M9	154P348060	CAPACITOR(C)	CH50V 220P-G
	C 2N0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2N2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2N4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2N5	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2P1	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2P2	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2P3	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2P4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2P5	141P140090	CAPACITOR(C)	B50V 1000P-K
○	C 2P6	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 2P7	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 2P8	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 2P9	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2Q0	154P341070	CAPACITOR(C)	CH50V 18P-J
○	C 2Q1	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 2Q2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2Q3	154P342090	CAPACITOR(C)	CH50V 56P-J
	C 2Q4	154P343010	CAPACITOR(C)	CH50V 68P-J
	C 2R2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2S1	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2S2	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2S3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2S4	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2S5	141P137040	CAPACITOR(C)	B25V 0.022M
○	C 2S6	141P138050	CAPACITOR(C)	B25V 0.18μF-K
○	C 2S7	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 2S8	181P510070	CAPACITOR(C)	04W 10V 10MM
	C 2S9	141P136030	CAPACITOR(C)	F16V 1μF-Z

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 2T0	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2T1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2T2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2T3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2T4	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 2T5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2T6	141P132030	CAPACITOR(C)	B50V 0.015M
	C 2T7	141P137040	CAPACITOR(C)	B25V 0.022M
○	C 2T8	181P509000	CAPACITOR(C)	04W 25V 4.7M
	C 2U0	154P354080	CAPACITOR(C)	SL50V 330P-J
○	C 2U2	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2U3	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2U4	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 2U5	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2U6	154P353040	CAPACITOR(C)	SL50V 82P-J
	C 2U7	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2U9	154P343050	CAPACITOR(C)	CH50V 100P-J
○	C 2V0	141P137030	CAPACITOR(C)	B50V 0.018μF-K
	C 2V1	154P341090	CAPACITOR(C)	CH50V 22P-J
	C 2V3	154P353040	CAPACITOR(C)	SL50V 82P-J
○	C 2V4	154P340050	CAPACITOR(C)	CH50V 4P-C
○	C 2V5	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 2V9	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 2W0	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 2X3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 2001	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2002	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2003	181P509070	CAPACITOR(C)	04W 50V 0.47
	C 2004	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 2005	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 2007	154P353020	CAPACITOR(C)	SL50V 68P-J
	C 2008	154P354040	CAPACITOR(C)	SL50V 220P-J
	C 2009	154P352000	CAPACITOR(C)	SL50V 22P-J
	C 2010	154P354040	CAPACITOR(C)	SL50V 220P-J
	C 2011	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 2012	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 2013	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2014	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2015	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2016	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2017	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2018	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2019	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 2020	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 2021	141P136030	CAPACITOR(C)	F16V 1μF-Z
○	C 2025	141P137050	CAPACITOR(C)	B50V 0.027μF-K
○	C 2035	154P350050	CAPACITOR(C)	SL50V 3P-C
○	C 300	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 301	181P510010	CAPACITOR(C)	04W 6.3V 22μF-M
○	C 302	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 304	141P136010	CAPACITOR(C)	F25V 0.47μF-Z
	C 307	154P327000	CAPACITOR(C)	SL50V 2700PJ
	C 308	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 309	141P140010	CAPACITOR(C)	B50V 220P-K

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 311	141P137080	CAPACITOR(C)	B50V 0.047M
	C 312	141P142000	CAPACITOR(C)	B50V 8200P-K
	C 313	154P354040	CAPACITOR(C)	SL50V 220P-J
	C 314	189P096020	C-PLASTIC-PP	100V 3300P-J
	C 315	141P137040	CAPACITOR(C)	B25V 0.022M
○	C 316	181P509030	CAPACITOR(C)	04W 35V 3.3M
○	C 317	181P509030	CAPACITOR(C)	04W 35V 3.3M
	C 318	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 319	189P125010	C-TANTALUM(C)	25V
	C 320	154P355060	CAPACITOR(C)	SL25V 680P-J
○	C 321	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 322	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 350	189P126030	C-TANTALUM(C)	35V 0.22M
	C 351	189P126030	C-TANTALUM(C)	35V 0.22M
○	C 353	181P509050	CAPACITOR(C)	07W 50V 0.22MM
	C 354	154P322020	CAPACITOR(C)	SL50V 27P-J
	C 356	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 357	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 359	154P322020	CAPACITOR(C)	SL50V 27P-J
○	C 360	181P509050	CAPACITOR(C)	07W 50V 0.22MM
○	C 361	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 362	141P136030	CAPACITOR(C)	F16V 1μF-Z
○	C 363	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 364	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 366	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 367	141P136030	CAPACITOR(C)	F16V 1μF-Z
○	C 3A0	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 3A1	154P326080	CAPACITOR(C)	SL50V 2200P
○	C 3A2	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 3A3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
○	C 3A4	181P509090	CAPACITOR(C)	04W 50V 2.2M
○	C 3A5	181P510030	CAPACITOR(C)	04W 6.3V 47M
	C 3A6	181P512020	CAPACITOR(C)	04W 16V 4.7μF-M
○	C 3A8	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 3A9	181P509030	CAPACITOR(C)	04W 35V 3.3M
○	C 3B0	181P509000	CAPACITOR(C)	04W 25V 4.7M
○	C 3B1	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 3B2	181P508080	CAPACITOR(C)	04W 16V 10MM
○	C 3B3	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 3B4	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 3B5	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 3B6	181P508080	CAPACITOR(C)	04W 16V 10MM
○	C 3B7	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 3B8	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
○	C 3B9	181P509030	CAPACITOR(C)	04W 35V 3.3M
○	C 3C0	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 3C1	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 3C3	181P512020	CAPACITOR(C)	04W 16V 4.7μF-M
○	C 3C4	181P510030	CAPACITOR(C)	04W 6.3V 47M
○	C 3C5	181P509090	CAPACITOR(C)	04W 50V 2.2M
	C 3C6	141P142010	CAPACITOR(C)	B25V 0.01μF-K
○	C 3C7	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 3C8	154P326080	CAPACITOR(C)	SL50V 2200P
○	C 3C9	181P508050	CAPACITOR(C)	04W 6.3V 22M

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 3D0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 3D1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 3D2	181P509080	CAPACITOR(C)	04W 50V 1μF-M
	C 3D3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 3D4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 3D5	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 3D6	154P354040	CAPACITOR(C)	SL50V 220P-J
	C 3D7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 3D8	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 3D9	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 3E0	141P139030	CAPACITOR(C)	B25V 0.1μF-K
	C 3E3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 3E7	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 3X0	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 3X1	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 3X2	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 3X3	141P140090	CAPACITOR(C)	B50V 1000P-K
○	C 401	181P508050	CAPACITOR(C)	04W 6.3V 22M
○	C 402	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 403	141P132030	CAPACITOR(C)	B50V 0.015M
	C 404	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 405	141P140090	CAPACITOR(C)	B50V 1000P-K
○	C 406	141P139000	CAPACITOR(C)	B25V 0.056μF-K
	C 407	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 408	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 409	141P137080	CAPACITOR(C)	B50V 0.047M
	C 410	141P139030	CAPACITOR(C)	B25V 0.1μF-K
	C 412	181P510070	CAPACITOR(C)	04W 10V 10MM
	C 413	141P140020	CAPACITOR(C)	B50V 270P-K
	C 416	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 417	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 418	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 425	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 428	141P137080	CAPACITOR(C)	B50V 0.047M
	C 430	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 431	141P139030	CAPACITOR(C)	B25V 0.1μF-K
○	C 4B0	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 4B1	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 4B2	141P136020	CAPACITOR(C)	F25V/16V 0.68
	C 4B3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 4B4	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 4B5	181P509000	CAPACITOR(C)	04W 25V 4.7M
○	C 4B6	181P509000	CAPACITOR(C)	04W 25V 4.7M
○	C 4B7	181P509000	CAPACITOR(C)	04W 25V 4.7M
	C 4B8	154P343050	CAPACITOR(C)	CH50V 10P-J
	C 4C0	141P134010	CAPACITOR(C)	F50V 0.047M
	C 4C1	154P325080	CAPACITOR(C)	SL50V 82P
○	C 4C2	181P509090	CAPACITOR(C)	04W 50V 2.2M
	C 4C3	141P141050	CAPACITOR(C)	B50V 330P-K
	C 4C4	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 4D0	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 4D1	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 4D2	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 4D3	141P136030	CAPACITOR(C)	F16V 1μF-Z

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	C 4D4	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 4D5	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5A3	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 5A4	154P341070	CAPACITOR(C)	CH50V 18P-J
	C 5A5	154P341070	CAPACITOR(C)	CH50V 18P-J
	C 5AA	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 5AB	154P343050	CAPACITOR(C)	CH50V 100P-J
	C 5AC	154P343050	CAPACITOR(C)	CH50V 100P-J
○	C 5AF	154P354060	CAPACITOR(C)	SL50V 270P-J
	C 5AG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5AH	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5AJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 5AK	141P141040	CAPACITOR(C)	B50V 2700P-K
○	C 5AL	181P508070	CAPACITOR(C)	04W 16V 4.7M
	C 5AM	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5AN	181P500080	CAPACITOR(C)	04W 10V 33μF-M
○	C 5AP	181P508070	CAPACITOR(C)	04W 16V 4.7M
○	C 5AQ	181P508070	CAPACITOR(C)	04W 16V 4.7M
	C 5AR	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5AS	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5AT	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5AU	141P143050	CAPACITOR(C)	F50V 1000P-Z
	C 5AV	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 5AW	181P502060	CAPACITOR(C)	16V 47μF-M
	C 5AX	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5AY	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5AZ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5BA	141P143050	CAPACITOR(C)	F50V 1000P-Z
	C 5BB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5BC	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5BD	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5BF	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 5BG	154P342030	CAPACITOR(C)	CH50V 33P-J
○	C 5BK	189P126070	CAPACITOR(C)	35V 1μF-M
	C 5BL	181P502040	CAPACITOR(C)	04W 16V 22μF-M
	C 5BM	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5BN	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 5BX	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 5DA	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 5DB	154P352040	CAPACITOR(C)	SL50V 33P-J
	C 5FA	189P126020	CAPACITOR(C)	35V 0.15μF-M
	C 5FB	189P126020	CAPACITOR(C)	35V 0.15μF-M
	C 6A1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A7	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 6A8	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6A9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B3	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 6B4	154P354000	CAPACITOR(C)	SL50V 150P-J
	C 6B5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6B7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 6B8	181P508050	CAPACITOR(C)	04W 6.3V 22M
	C 6B9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6C0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6C1	154P355020	CAPACITOR(C)	SL50V 470P-J
	C 6C2	189P126020	CAPACITOR(C)	35V 0.15μF-M
	C 6C3	141P137040	CAPACITOR(C)	B25V 0.022M
	C 6C4	189P123070	CAPACITOR(C)	16V 10μF-M
	C 6C5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6C6	154P335010	CAPACITOR(C)	CH50V 470P-J
	C 6C7	189P122010	CAPACITOR(C)	10V 2.2μF-M
	C 6C8	189P122030	CAPACITOR(C)	10V 4.7μF-M
	C 6C9	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 6D0	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 6D4	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 6D5	154P343050	CAPACITOR(C)	CH50V 100P-J
	C 6D6	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 6D7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6D8	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6D9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E3	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 6E4	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6E8	154P344050	CAPACITOR(C)	CH25V OR 50V
	C 6J1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J3	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J4	154P344030	CAPACITOR(C)	CH50V 220P-J
	C 6J5	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J6	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J7	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6J8	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 6J9	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6K0	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6K1	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 6K2	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7AA	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 7AB	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 7AE	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AH	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AJ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AK	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AM	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 7AN	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 7AP	181P508050	CAPACITOR(C)	04W 6.3V 22M

○ : NEW PARTS

	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 7AQ	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 7AR	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AV	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7AY	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7AZ	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 7BA	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 7BB	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7BG	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7EC	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 7ED	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 7EE	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 7EF	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 7EG	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 7EH	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 7EJ	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 7EK	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
	C 7EL	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7EM	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7EQ	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7ER	154P343050	CAPACITOR(C)	CH50V 100P-J
○	C 7ES	141P135070	CAPACITOR(C)	F16V 1μF-Z
○	C 7ET	141P135070	CAPACITOR(C)	F16V 1μF-Z
	C 7EU	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 7EV	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 7EY	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7EZ	141P135080	CAPACITOR(C)	F25V 0.1μF-Z
○	C 7FA	181P509080	CAPACITOR(C)	04W 50V1μF-M
	C 7FB	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 7FC	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 7FD	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
○	C 7FE	181P508080	CAPACITOR(C)	04W 16V 10MM
	C 7FF	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7KB	154P342070	CAPACITOR(C)	CH50V 47P-J
	C 7KC	141P143080	CAPACITOR(C)	F50V 0.01μF-Z
	C 7KD	141P140090	CAPACITOR(C)	B50V 1000P-K
	C 800	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
	C 801	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 802	154P342030	CAPACITOR(C)	CH50V 33P-J
	C 803	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 804	154P341050	CAPACITOR(C)	CH50V 15P-J
	C 805	154P342050	CAPACITOR(C)	CH50V 39P-J
	C 806	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 807	181P500080	CAPACITOR(C)	04W 10V 33μF-M
	C 808	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 809	181P500040	CAPACITOR(C)	6.3V 100μF-M
	C 810	141P144000	CAPACITOR(C)	F25V 0.033μF-Z
○	C 905	189P124010	C-TANTALUM	20V 0.68μF-M
	C 906	181P500030	CAPACITOR(C)	04W 6.3V 47μF-M
	C 907	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 908	141P136030	CAPACITOR(C)	F16V 1μF-Z
	C 909	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 910	154P355060	CAPACITOR(C)	SL25V 680P-J
	C 911	141P142010	CAPACITOR(C)	B25V 0.01μF-K
	C 916	181P503090	CAPACITOR(C)	25V 33μF-M
	C 917	181P500080	CAPACITOR(C)	04W10V 33μF-M

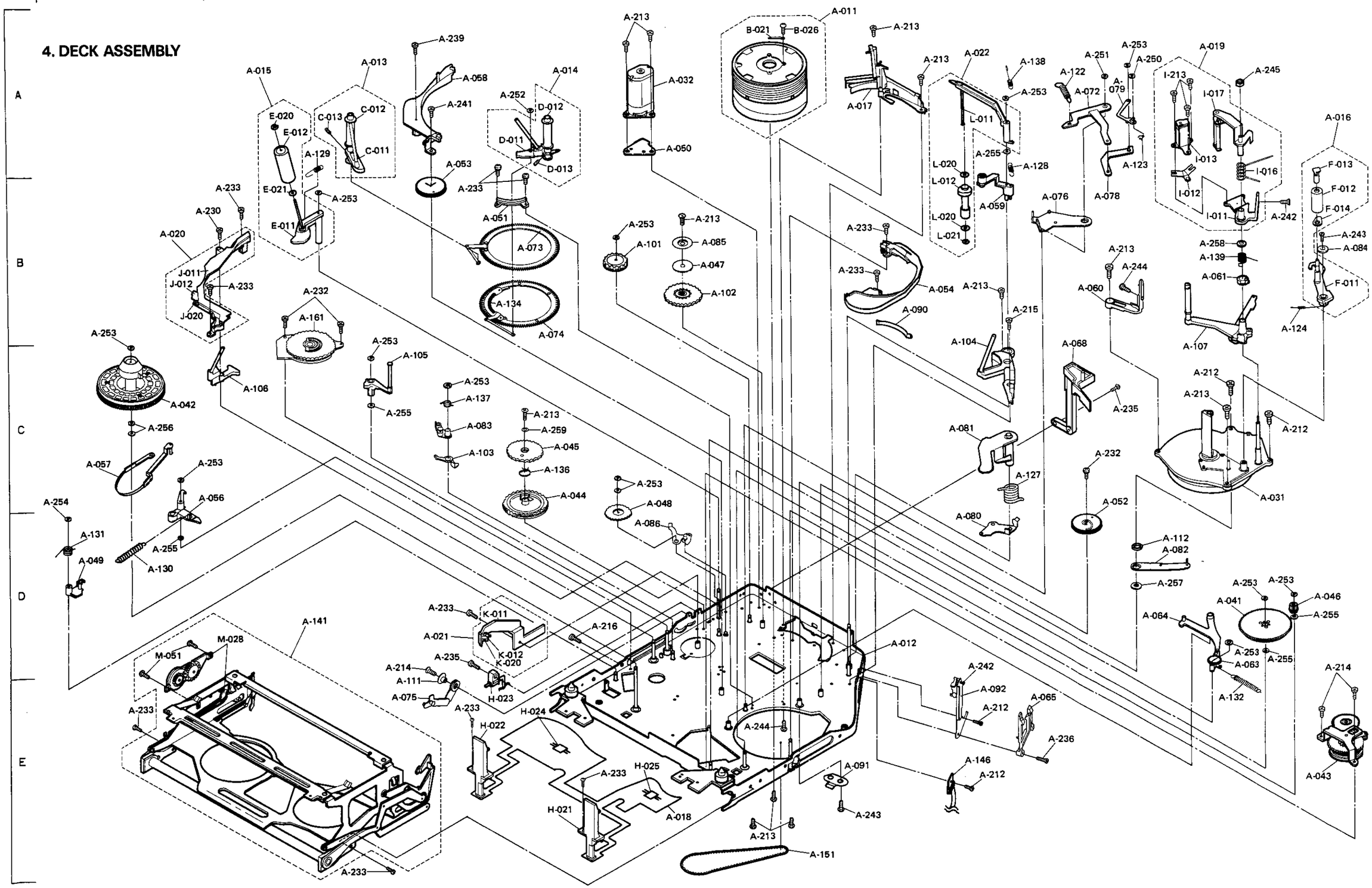
	SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	C 918	181P500080	CAPACITOR(C)	04W 10V 33μF-M
	C 919	141P139030	CAPACITOR(C)	B25V 0.1μF-K
	VC0SA	202P220010	CAPACITOR(C)	3P-10P
	VC2EA	202P220010	CAPACITOR(C)	3P-10P
	VC2S1	202P220030	C-TANTALUM(C)	7P-30P
	VC6A1	202P220030	C-TANTALUM(C)	7P-30P
○	VC800	202P220050	TRIMMER CAPACITOR(C)	13P-50P 4K
			SWITCHES	
○	S 800	432P087010	KEY BOARD SWITCH	STOP
○	S 801	432P087010	KEY BOARD SWITCH	PLAY
○	S 802	432P087010	KEY BOARD SWITCH	STILL
	S 910	432P090010	KEY BOARD SWITCH	START/STOP
○	SW350	431C088010	SLIDE SWITCH	WIDE
○	SW571	439P027010	LEAF SWITCH	R-I-SW
○	SW572	439P027010	LEAF SWITCH	S-SW
	SW573	439P013020	LIMIT SWITCH	C-SW
○	SW574	439P026010	MODE SWITCH	
			MISCELLANEOUS	
○		939P412010	AC ADAPTER	[HS-C35E]
○		939P412020	AC ADAPTER	[HS-C35B]
		272P515010	IC-SENSOR-CCD	ICX039AK
○	J 350	451C113020	MICROPHONE JACK	(R)
	J 351	451C113010	MICROPHONE JACK	(L)
	J 3X3	451C123010	JACK	
	J 5X2	451C122010	JACK	
○	J 910	451C124010	DC JACK	6V
○	M 571	288P103010	CAPSTAN MOTOR	
○	M 572	288P105010	LOADING MOTOR	
○	T 571	460P103010	AC HEAD	
	TP 25	299P136010	TP TERMINAL	2125
	TP 29	299P136010	TP TERMINAL	2125
	TP 2A	299P136010	TP TERMINAL	2125
	TP 2B	299P136010	TP TERMINAL	2125
	TP 2E	299P136010	TP TERMINAL	2125
	TP 2L	299P136010	TP TERMINAL	2125
	TP 2M	299P136010	TP TERMINAL	2125
	TP 2S	299P136010	TP TERMINAL	2125
	TP 2T	299P136010	TP TERMINAL	2125
	TP 2Y	299P136010	TP TERMINAL	2125
	TP 3A	299P136010	TP TERMINAL	2125
	TP 3E	299P136010	TP TERMINAL	2125
	TP 3F	299P136010	TP TERMINAL	2125
	TP 3G	299P136010	TP TERMINAL	2125
	TP 3H	299P136010	TP TERMINAL	2125
	TP 3L	299P136010	TP TERMINAL	2125
	TP 3R	299P136010	TP TERMINAL	2125
	TP 3Y	299P136010	TP TERMINAL	2125
	TP 50	299P136010	TP TERMINAL	2125
	TP 51	299P136010	TP TERMINAL	2125
	TP 52	299P136010	TP TERMINAL	2125
	TP 5P	299P136010	TP TERMINAL	2125

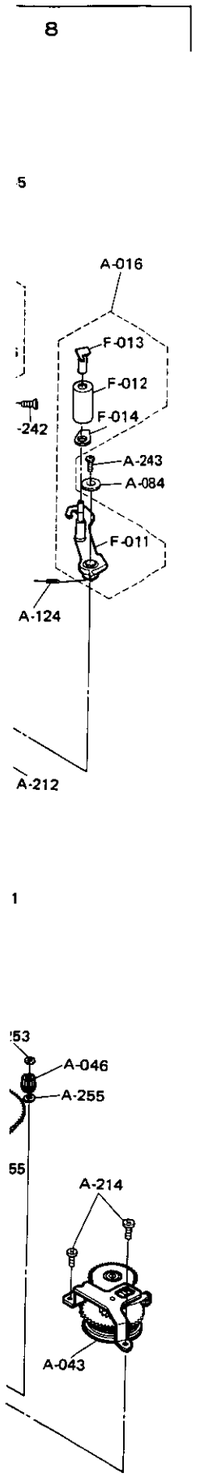
○ : NEW PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
TP 6A	299P136010	TP TERMINAL	2125
TP 6B	299P136010	TP TERMINAL	2125
TP 6C	299P136010	TP TERMINAL	2125
TP 6G	299P136010	TP TERMINAL	2125
TP 6J	299P136010	TP TERMINAL	2125
TP 6L	299P136010	TP TERMINAL	2125
TP 6Z	299P136010	TP TERMINAL	2125
TP 8A	299P136010	TP TERMINAL	2125
TP 8B	299P136010	TP TERMINAL	2125
TP 8C	299P136010	TP TERMINAL	2125
TP0SA	299P136010	TP TERMINAL	2125
TP0SB	299P136010	TP TERMINAL	2125
TP0SC	299P136010	TP TERMINAL	2125
TP0SG	299P136010	TP TERMINAL	2125
TP1AA	299P136010	TP TERMINAL	2125
TP1AB	299P136010	TP TERMINAL	2125
TP1AD	299P136010	TP TERMINAL	2125
TP1AE	299P136010	TP TERMINAL	2125
TP1AF	299P136010	TP TERMINAL	2125
TP1AG	299P136010	TP TERMINAL	2125
TP1AH	299P136010	TP TERMINAL	2125
TP1AJ	299P136010	TP TERMINAL	2125
TP1AK	299P136010	TP TERMINAL	2125
TP1AL	299P136010	TP TERMINAL	2125
TP1AM	299P136010	TP TERMINAL	2125
TP1AN	299P136010	TP TERMINAL	2125
TP1AP	299P136010	TP TERMINAL	2125
TP1AQ	299P136010	TP TERMINAL	2125
TP2AB	299P136010	TP TERMINAL	2125
TP2AC	299P136010	TP TERMINAL	2125
TP2AE	299P136010	TP TERMINAL	2125
TP2AF	299P136010	TP TERMINAL	2125
TP2AG	299P136010	TP TERMINAL	2125
TP2AH	299P136010	TP TERMINAL	2125
TP2BG	299P136010	TP TERMINAL	2125
TP2X1	299P136010	TP TERMINAL	2125
TP2X2	299P136010	TP TERMINAL	2125
TP3X1	299P136010	TP TERMINAL	2125
TP3X2	299P136010	TP TERMINAL	2125
TP5AB	299P136010	TP TERMINAL	2125
TP5AC	299P136010	TP TERMINAL	2125
TP5AF	299P136010	TP TERMINAL	2125
TP5AG	299P136010	TP TERMINAL	2125
TP5AM	299P136010	TP TERMINAL	2125
TP5AN	299P136010	TP TERMINAL	2125
TP5AP	299P136010	TP TERMINAL	2125
TP5BG	299P136010	TP TERMINAL	2125
TP5DG	299P136010	TP TERMINAL	2125
TP7EA	299P136010	TP TERMINAL	2125
○ X 0SA	285P150010	CRYSTAL RESONATOR	28.37
○ X 2EA	285P151010	CRYSTAL RESONATOR	17MHz
○ X 5A0	285P102030	CRYSTAL RESONATOR	AT-49
○ X 5DA	299P142010	CRYSTAL RESONATOR	CSAC7.37M
X 800	285P054020	CRYSTAL RESONATOR	
○ Z 571	299P115030	SENSOR-H	

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○ Z 5AA	299P137010	PROTECTOR(C)	1A
○ Z 800	299P137010	PROTECTOR(C)	1A
○ Z 901	299P137010	PROTECTOR(C)	1A
		PRINTED CIRCUIT BOARD ASSY'S	
○	927B380001	CAMERA PCB ASSY	
○	928C690001	JACK PCB ASSY	
○	928C656002	MIC-AMP PCB ASSY	
○	928C652002	POWER PCB ASSY	
○	928C692001	SD PCB ASSY	
○	928C655002	TRIGGER PCB ASSY	
○	927B379001	VTR PCB ASSY	

4. DECK ASSEMBLY





* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
A-011	948B279002	○	A-5		ASSY-DRUM		01
B-021	299C028010	○	A-5		BRUSH		01
B-026	669D315020		A-5		SCREW	(M1.7×0.35-2)	01
A-012	948B280001		D-6		ASSY-PLATE-MAIN		01
A-013	948D029001	○	A-3		ASSY-TAPE-GUIDE-S		01
C-011	635B069010	○	A-3		TAPE-GUIDE-SP		01
C-012	522B050010	○	A-3		GUIDE-ROLLER-U2		01
C-013	669D419010		A-2		SET-SCREW	(M1.4×0.3)	01
A-014	948D030001	○	A-4		ASSY-TAPE-GUIDE-T		01
D-011	635B070010	○	A-3		TAPE-GUIDE-T		01
D-012	522B047010	○	A-4		GUIDE-ROLLER		01
D-013	669D419010		A-4		SET-SCREW	(M1.4×0.3)	01
A-015	948D031001	○	A-2		ASSY-IMP-ROLLER		01
E-011	641B443010		B-2		ARM-IMP		01
E-012	631D266010		A-2		ROLLER-IMP		01
E-020	552C009020	○	A-2		CUT-WASHER		01
E-021	552C001010		B-2		WASHER-THRUST		01
A-016	948D032001	○	A-8		ASSY-PINCH-ROLLER		01
F-011	591B706010		B-8		ARM-PINCH		01
F-012	522C086010	○	B-8		PINCH-ROLLER		01
F-013	641C995010		B-8		CAP-PINCH		01
F-014	621D801010		B-8		CAM-L-GR		01
A-017	948D033001	○	A-5		ASSY-STOPPER-TG		01
A-018	928C649001	○	E-4		ASSY-FPC-SENS		01
H-021	439P027010	○	E-4		SW-LEAF	(SW571)	01
H-022	439P027010	○	E-3		SW-LEAF	(SW572)	01
H-023	439P013020	○	E-3		SW-LIMIT	(SW573)	01
H-024	268P044020	○	E-3		PHOTO-INTERRUPTER	(Q571 ON2270.M1)	01
H-025	268P044020	○	E-4		PHOTO-INTERRUPTER	(Q572 ON2270.M1)	01
A-019	928C650001	○	A-8		ASSY-A/C-HEAD		01
I-011	593C082010		B-8		PLATE-AC		01
I-012	572D451010		B-7		SPRING-PLATE-AC		01
I-013	460P103010	○	A-7		HEAD-AC	(T571)	01
I-016	572D453010		B-8		SPRING-ARM-AC		01
I-017	596D532010		A-8		LEVER-GR		01
I-213	669D420040		A-7		SCREW	(M1.7×0.35×3)	03
A-020	928D039001	○	B-1		ASSY-GUIDE-SLIDER		01
J-011	641B431010		B-1		GUIDE-SLIDER-L		01
J-012	641C999010		B-1		HOLDER-LED		01
J-020	264P526010	○	B-1		DIODE-LE	(D571 LN-57)	01
A-021	928D040001	○	D-3		ASSY-E-SENS		01
K-011	641B457010		D-3		HOLDER-E-SENS		01
K-012	621D770010		D-3		COVER-E-SENS		01
K-020	268P041010	○	D-3		PHOTO-TRANSISTOR	(Q573 PN147)	01
A-022	948D034001	○	A-6		ASSY-IMP-T		01
L-011	641B500010	○	A-6		ARM-IMP-T		01
L-012	631D315010		B-6		ROLLER-IMP-T		01
L-020	552C001010		A-6	B-6	WASHER-THRUST		02
L-021	552C009020	○	B-6		CUT-WASHER		01
A-031	288P103010	○	C-8		MOTOR-CP	(M571)	01
A-032	288P105010	○	A-4		MOTOR-LOADING	(M572)	01
A-041	522B044010	○	D-8		GEAR-REEL		01
A-042	522B045010	○	C-1		REEL-DISK		01
A-043	522B046010	○	E-8		UNIT-IDLER		01
A-044	621C021010		C-4		CAM-S		01

* Settelled Service Parts

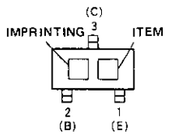
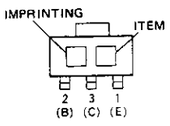
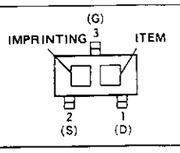
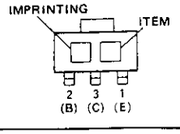
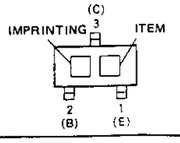
ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
A-045	621C022010		C-4		CAM-S-SP		01
A-046	621D711010	○	D-8		GEAR-TU1		01
A-047	621D718010		B-5		GEAR-GUIDE		01
A-048	621D721010		C-4		GEAR-LOAD-S		01
A-049	621D727010		D-1		HOLDER-TENS		01
A-050	621D728010		A-4		HOLDER-L-MO		01
A-051	621C068010		B-3		RING-GUIDE-SP		01
A-052	641B428010	○	C-7		CAM-T		01
A-053	641B429010		A-3		CAM-M		01
A-054	641B432010		B-6		GUIDE-SLIDER-T		01
A-056	621C090010		C-2		ARM-REGULATOR		01
A-057	641B437010	○	C-1		BELT-TENS		01
A-058	641B438010		A-3		GUIDE-SLIDER-R		01
A-059	641B441010		B-6		ARM-CLEANING		01
A-060	641B442010		B-7		UNIT-TAPE-PILOT		01
A-061	641C984010		B-8		CAM-GEAR-TUG		01
A-063	522B049010	○	D-8		UNIT-CLUTCH		01
A-064	593C081010		D-7		PLATE-CLUTCH-OFF		01
A-065	621C079010		E-6		HOLDER-LEAD-AC		01
A-068	621C089010		C-7		GUIDE-TG		01
A-072	591B705010		A-7		LEVER-PINCH-B		01
A-073	591B709010		B-3		UNIT-RING-S		01
A-074	591B710010		B-4		UNIT-RING-TU		01
A-075	591B711010		E-3		ARM-EJECT		01
A-076	593C011010		B-7		LEVER-PINCH-A		01
A-078	593C012010		B-7		LINK-PINCH-A		01
A-079	593C013010		A-7		LINK-PINCH-B		01
A-080	593C014010		D-6		LEVER-ROCK-T-A		01
A-081	593C015010		C-6		LEVER-LOCK-T-B		01
A-082	593C016010		D-7		LEVER-CAM-T		01
A-083	593C022010		C-3		SET-ARM-S		01
A-084	596D377010		B-8		WASHER-PINCH		01
A-085	596D384010		B-5		STOPPER-RING-S		01
A-086	593C066010		D-4		LEVER-EJECT		01
A-090	596D445010		B-6		PLATE-SLIDER-T		01
A-091	596D560010		E-5		PLATE-CATCH		01
A-092	591B790010		E-6		STOPPER-GATU		01
A-101	635D065010		B-4		GEAR-IDLER-S		01
A-102	520D161010		B-5		GEAR-LOAD-1		01
A-103	635D067010		C-3		LEVER-TENS-OFF		01
A-104	635B071010	○	C-6		SLANT-T		01
A-105	641B499010		C-3		TENS-REGULATOR		01
A-106	635B073010	○	C-2		SLANT-SP		01
A-107	635B074010	○	C-7		GUIDE-ARM-TU		01
A-111	631D290010		E-3		SLEEVE-EJECT		01
A-112	631D293010		D-7		SPACER		01
A-122	572D454010		A-7		SPRING-PINCH		01
A-123	572D455010		A-7		SPRING-PINCH-SUB		01
A-124	572D456010		B-8		SPRING-ARM-PINCH		01
A-127	572D459010		C-6		SPRING-ARM-LOCK		01
A-128	572D460010		A-6		SPRING-ARM-CLEANING		01
A-129	572D461010		A-2		SPRING-IMP		01
A-130	572D462010	○	D-1		SPRING-TENS-1		01
A-131	572D463010		D-1		SPRING-TENS-2		01
A-132	572D464010		E-8		SPRING-RS		01
A-134	572D465010		B-3		SPRING-F		01
A-136	572D467010		C-4		SPRING-PUSH		01
A-137	572D468010		C-3		SPRING-PUSH2		01
A-138	572D512010		A-6		SPRING-IMP-T		01
A-139	572D516010		B-8		SPRING-G		01
A-141	591B712010	○	D-2		UNIT-C-HOU-U		01
M-028	621C049010	○	D-2		UNIT-DAMPER		01
M-051	----------		D-1		SCREW	(M1.7×0.35)	02
A-146	299P115030	○	E-6		SENSOR-H	(Z571)	01
A-151	521D072010	○	E-5		BELT-SYNC		01

* Settelled Service Parts

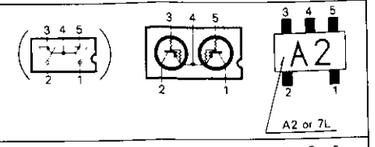
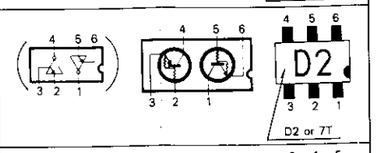
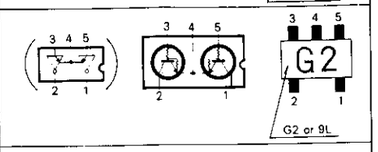
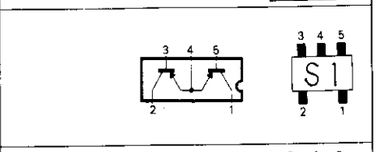
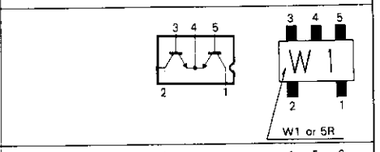
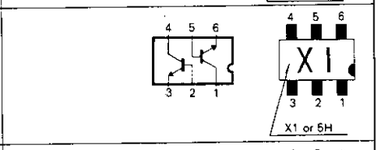
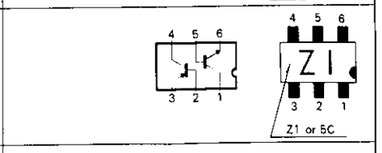
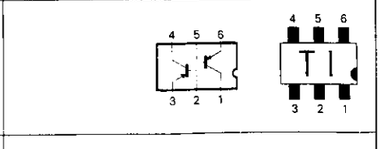
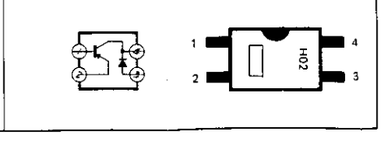
ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
A-161	439P026010	○	B-2		SW-MODE	(SW574)	01
A-212	669D420020		C-7	C-8	SCREW	(M1.7×0.35×2)	04
			E-6				
A-213	669D420040		A-4	A-6	SCREW	(M1.7×0.35×3)	12
			B-4	B-6			
			B-7	C-4			
			C-7	E-5			
A-214	669D420050		D-3	E-8	SCREW	(M1.7×0.35×4)	03
A-215	669D420060		B-6		SCREW	(M1.7×0.35×5)	01
A-216	669D420070		D-4		SCREW	(M1.7×0.35×6)	01
A-230	669D421010		B-2		SCREW	(M1.7×0.35×10)	01
A-232	669D421020		B-2	C-7	SCREW	(M1.7×0.35×2)	03
A-233	669D421040		B-2	B-3	SCREW	(M1.7×0.35×3)	11
			B-5	D-3			
			E-1	E-2			
			E-3	E-4			
A-235	669D421060		C-7	D-3	SCREW	(M1.7×0.35×5)	02
A-236	669D421070		E-7		SCREW	(M1.7×0.35×6)	01
A-239	669D421090		A-3		SCREW	(M1.7×0.35×9)	01
A-241	669D344020		A-3		SCREW-FLANGE	(M1.7×0.35-2)	01
A-242	669D418010		B-8	D-6	SCREW	(M1.7×0.35×3)	02
A-243	669D422020		B-8	E-5	SCREW-FLAT	(M1.7×0.35 L=3)	02
A-244	669D423060		B-7	E-5	SCREW	(M1.4×0.3 L=3.5)	02
A-245	674D093010		A-8		NUT-S	(M2×0.4)	01
A-250	552C016010		A-7		WASHER		01
A-251	552C007010	○	A-7		CUT-WASHER		01
A-252	552C009010	○	A-3		CUT-WASHER		01
A-253	552C009020	○	A-6	A-7	CUT-WASHER		13
			B-1	B-2			
			B-3	B-4			
			C-2	C-3			
			C-4	D-8			
A-254	552C009040	○	C-1		CUT-WASHER		01
A-255	552C001010		A-6	C-3	WASHER-THRUST		05
			D-1	D-8			
A-256	552C006010	○	C-1		WASHER-THRUST		02
A-257	552C014010		D-7		WASHER-THRUST		01
A-258	683D120010		B-8		WASHER-AC		01
A-259	596D539010		C-4		WASHER-CAM-S		01

CHIP PARTS SHAPES

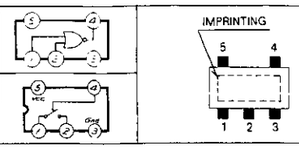
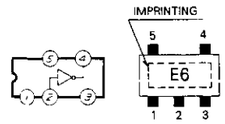
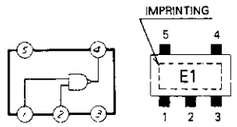
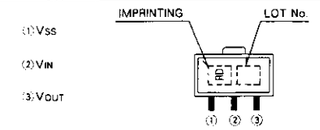
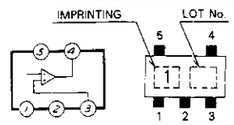
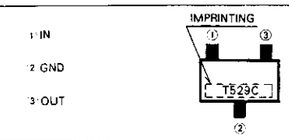
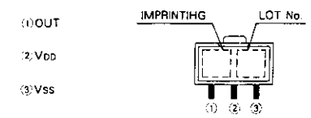
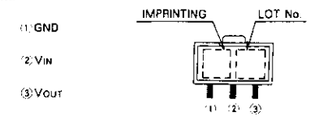
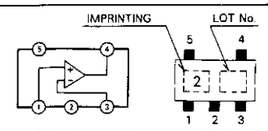
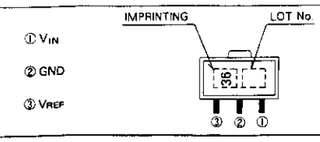
(4-1)

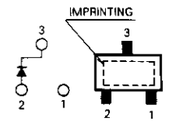
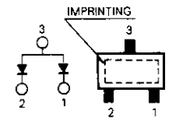
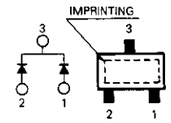
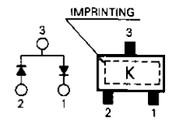
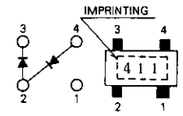
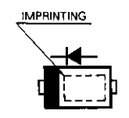
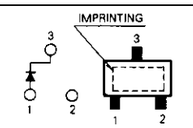
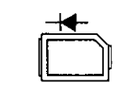
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
2SA1235-F,G	MF, MG	260P802090	
2SA1576-R/2SB1218A-R 2SB1218A-Q	FR, BR BQ	260P859020 260P859070	
2SA1576-R	FR	260P859050	
2SA1577-Q/2SB1219A-R	HQ, DR	260P861020	
2SA1577-Q 2SA1577-R	HQ HR	260P861050 260P861060	
2SA1610-Y34	Y34	260P870010	
2SC4081-Q/2SD1819A-Q	BQ, ZQ	260P855010	
2SC4081-R/2SD1819A-R 2SC4081-S/2SD1819A-S	BR, ZS BS, ZS	260P855020 260P855030	
2SC4098-P/2SC3936-B	AP, KB	260P854020	
2SC4098-Q/2SC3936-C	AQ, KC	260P854030	
2SC4176-B34	B34	260P869020	
2SC4176-B35	B35	260P869010	
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	
2SC2873-Y	MY	260P868010	
2SA1213-Y	NY	260P701010	
DTA124EU	15	260P871020	
DTC124EU	25	260P872020	

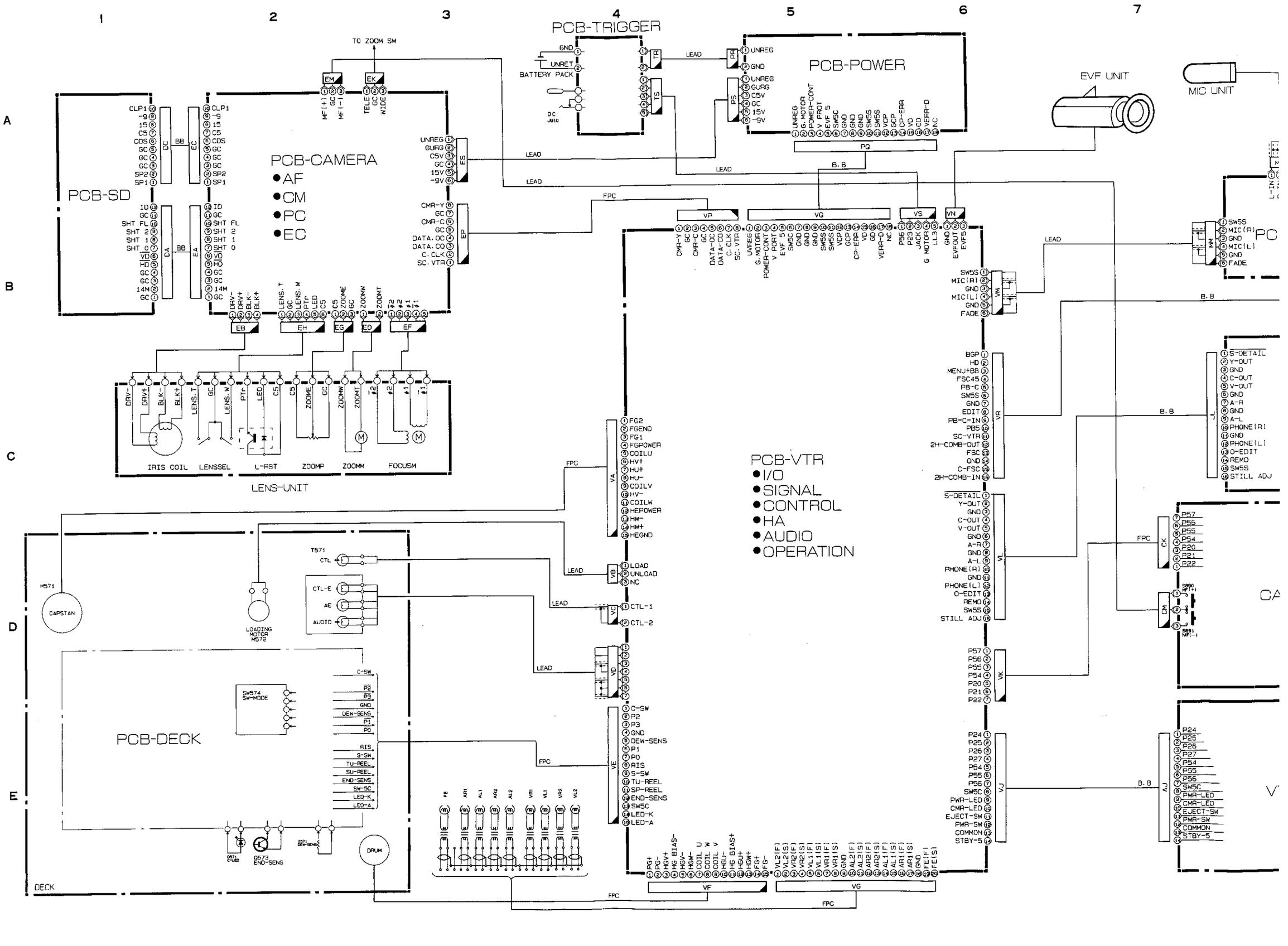
(4-2)

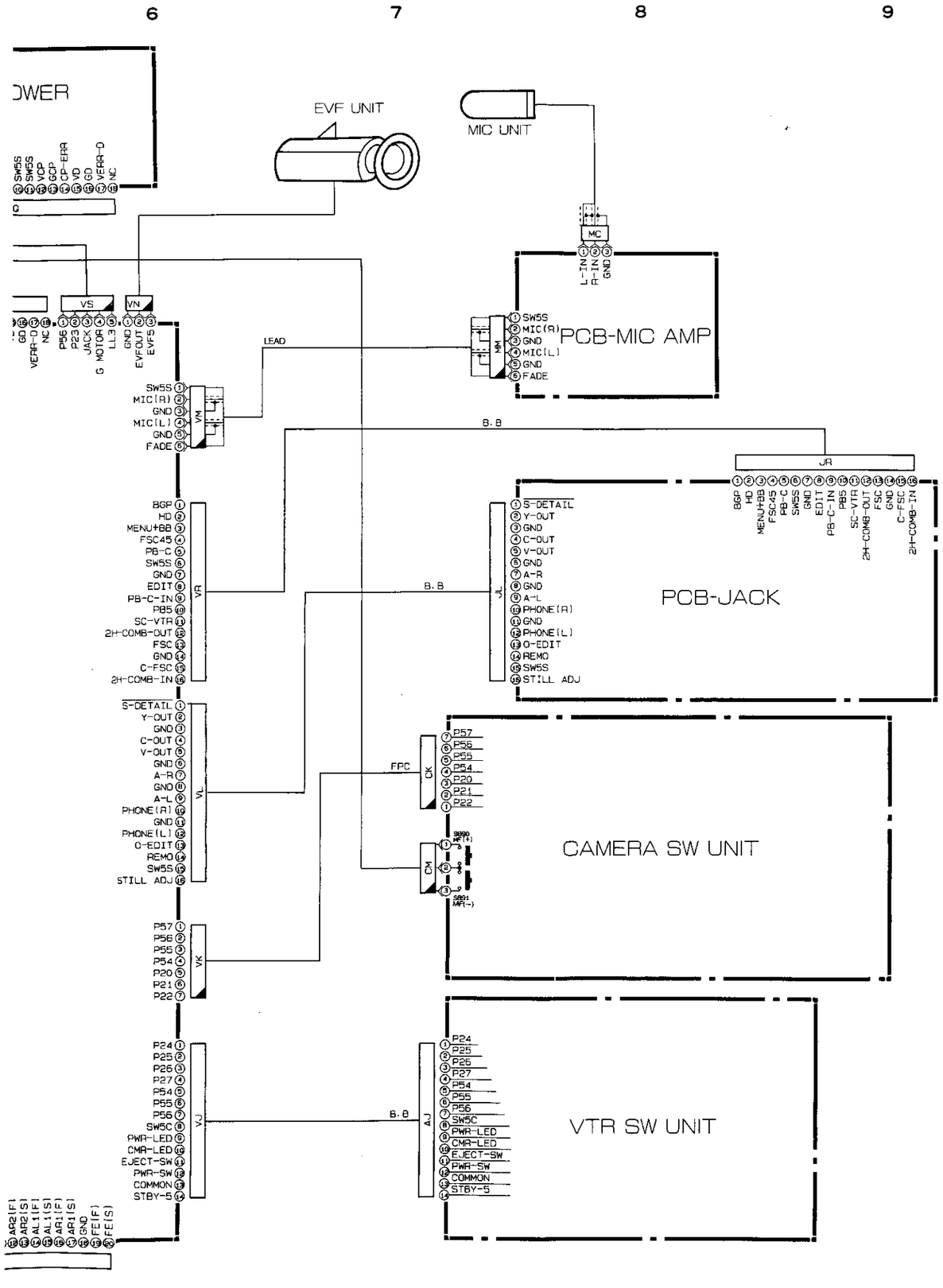
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
FMA2/XN1113	A2 or 7L	260P853010	
IMD2/XN4312	D2 or 7T	260P851010	
FMG2/XN1213	G2 or 9L	260P852010	
FMS1	S1	260P843010	
FMW1/XN1501	W1 or 5R	260P844020	
IMX1/XN4501	X1 or 5H	260P845020	
IMZ1/XN4601	Z1 or 5C	260P849020	
IMT1	T1	260P863010	
SAH02-VIL	H02	260P873010	

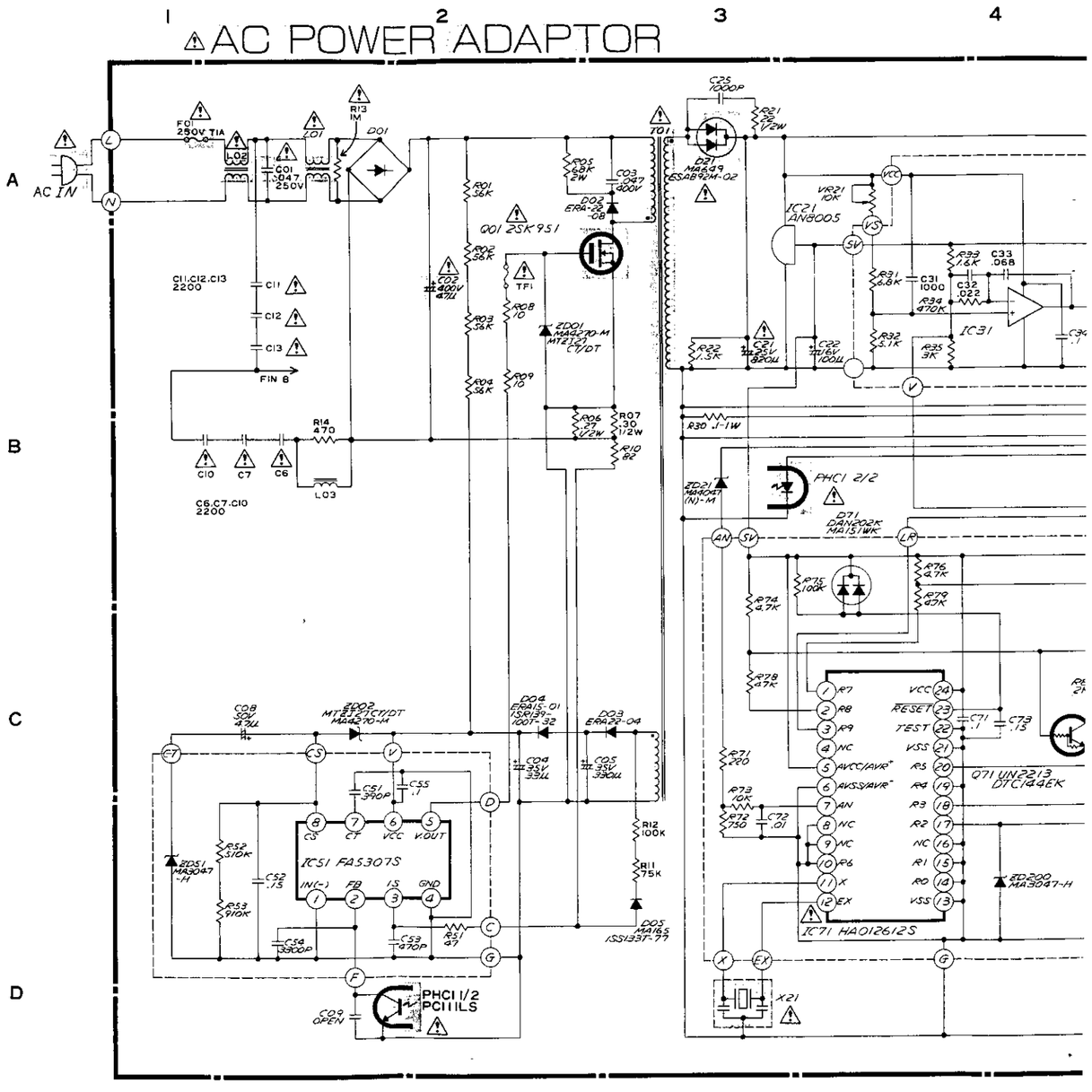
DESCRIPTION	IMPRINTING	PARTS No.
CHIP IC		
SC14S01F	C3	263P223010
SC14S66F	C9	263P217010
SC7SU04F	E6	263P220010
SC7S00F	E1	263P230010
S-81250HG-RD-T1	RD	272P360010
NJM2406F	1	272P364010
PST529C	T529C	272P357010
S-8054ALB-LM-T1	LM	272P362010
S-8054HNM	CQ	263P440010
S-81215AG-RK-T1 /RH5RA16AA	RK or 6A	272P359010
NJM2107F	2	272P592010
M5236ML	36	272P294010

	IMPRINTING	PARTS No.	SHAPES
		CHIP IC	
	C3	263P223010	
	C9	263P217010	
	E6	263P220010	
	E1	263P230010	
	RD	272P360010	
	1	272P364010	
	T529C	272P357010	
	LM CQ	272P362010 263P440010	
5RA16AA	RK or 6A	272P359010	
	2	272P592010	
	36	272P294010	

DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
		CHIP DIODE	
RD2.4MB RD5.1MB1 RD6.8MB1 RD7.5MB2 RD10MB RD11MB2	24 511 681 752 100 1102	264P815010 264P815060 264P816040 264P816050 264P816080 264P816090	
DAP202U/MA142WA MA142WA	P or MO MO	264P814010 264P814030	
DAN202U/MA142WK	N or MU	264P828010	
DA204U	K	264P830020	
ND411G-2	411	264P833010	
SPB-54V SFPB-64V	B54 B64	264P831010 264P832010	
MA141K	MH	264P837010	
ISV205 MA341		264P838010 264P834010	
LN1351C		264P83901	


PCB-CAMERA
●AF
●CM
●PC
●EC
PCB-SD
PCB-TRIGGER
PCB-POWER
PCB-VTR
●I/O
●SIGNAL
●CONTROL
●HA
●AUDIO
●OPERATION
PCB-DECK
LENS-UNIT
IRIS COIL
LENSSEL
L-RST
ZOOMP
ZOOMM
FOCUSM
CAPSTAN
LOADING MOTOR M572
DRUM
EVF UNIT
MIC UNIT
TO ZOOM SW
BATTERY PACK
LEAD
FPC
B.B
DECK



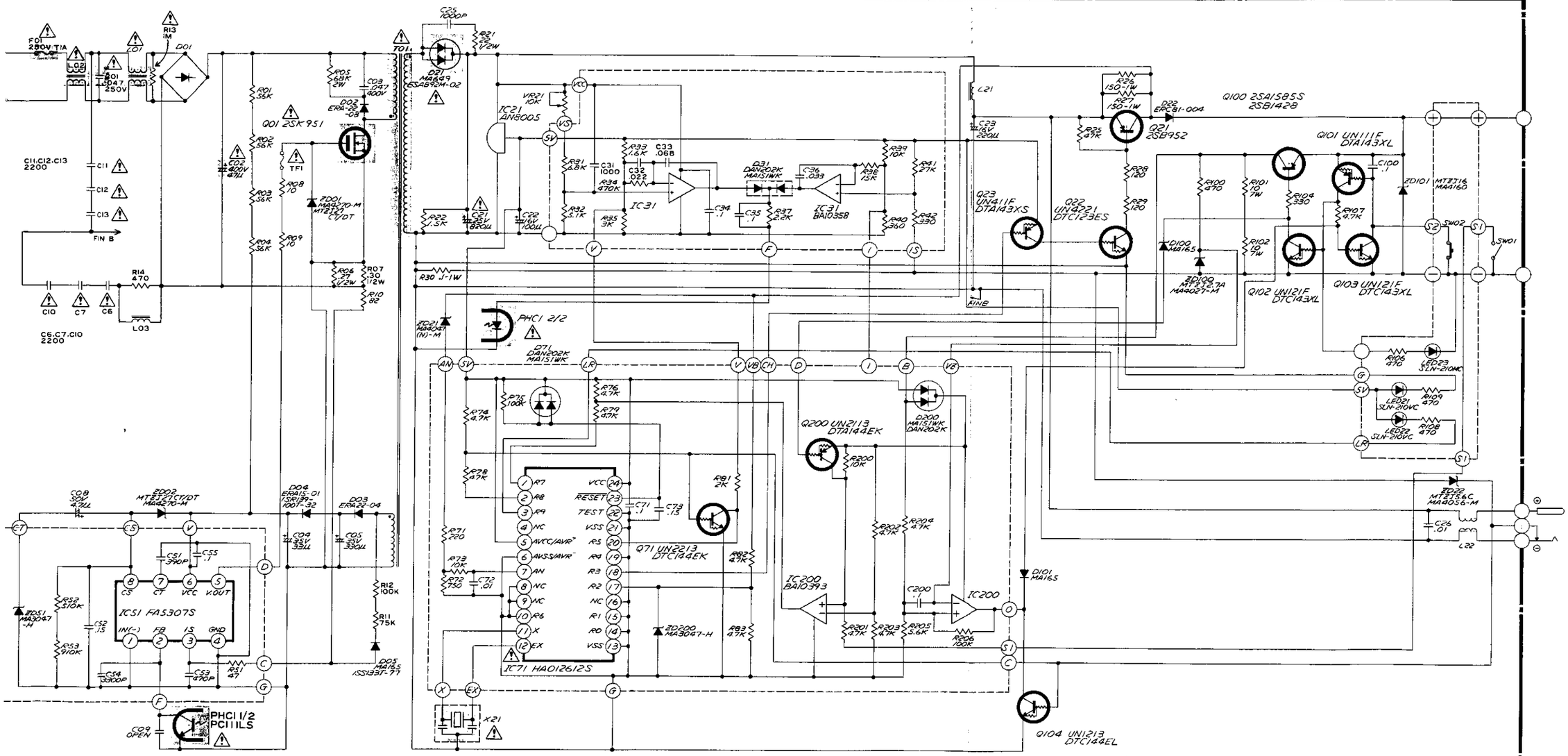


⚠ SERVICING PRECAUTION

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 VCR THROUGH IMPROPER SERVICING.

⚠ AC POWER ADAPTOR

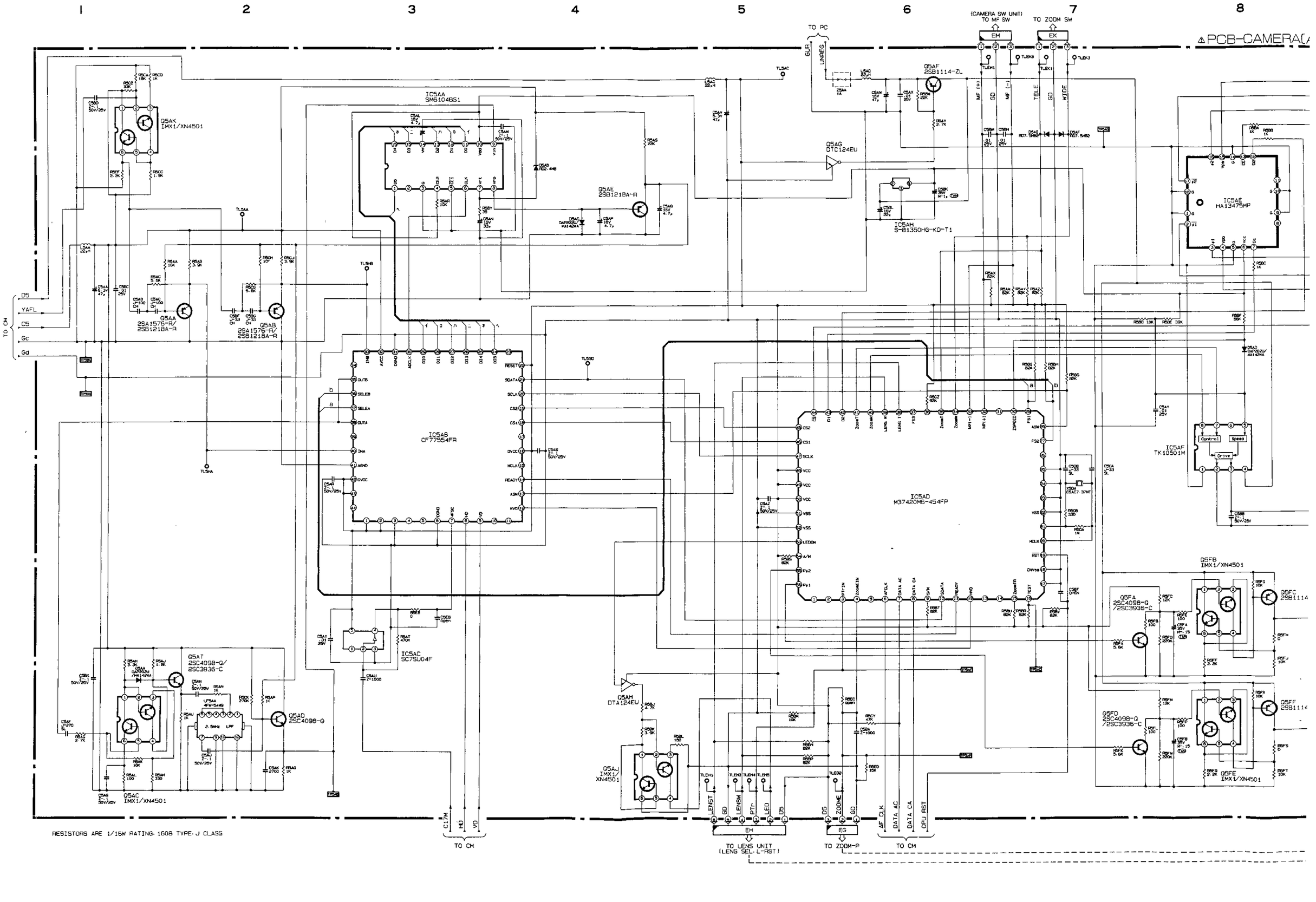


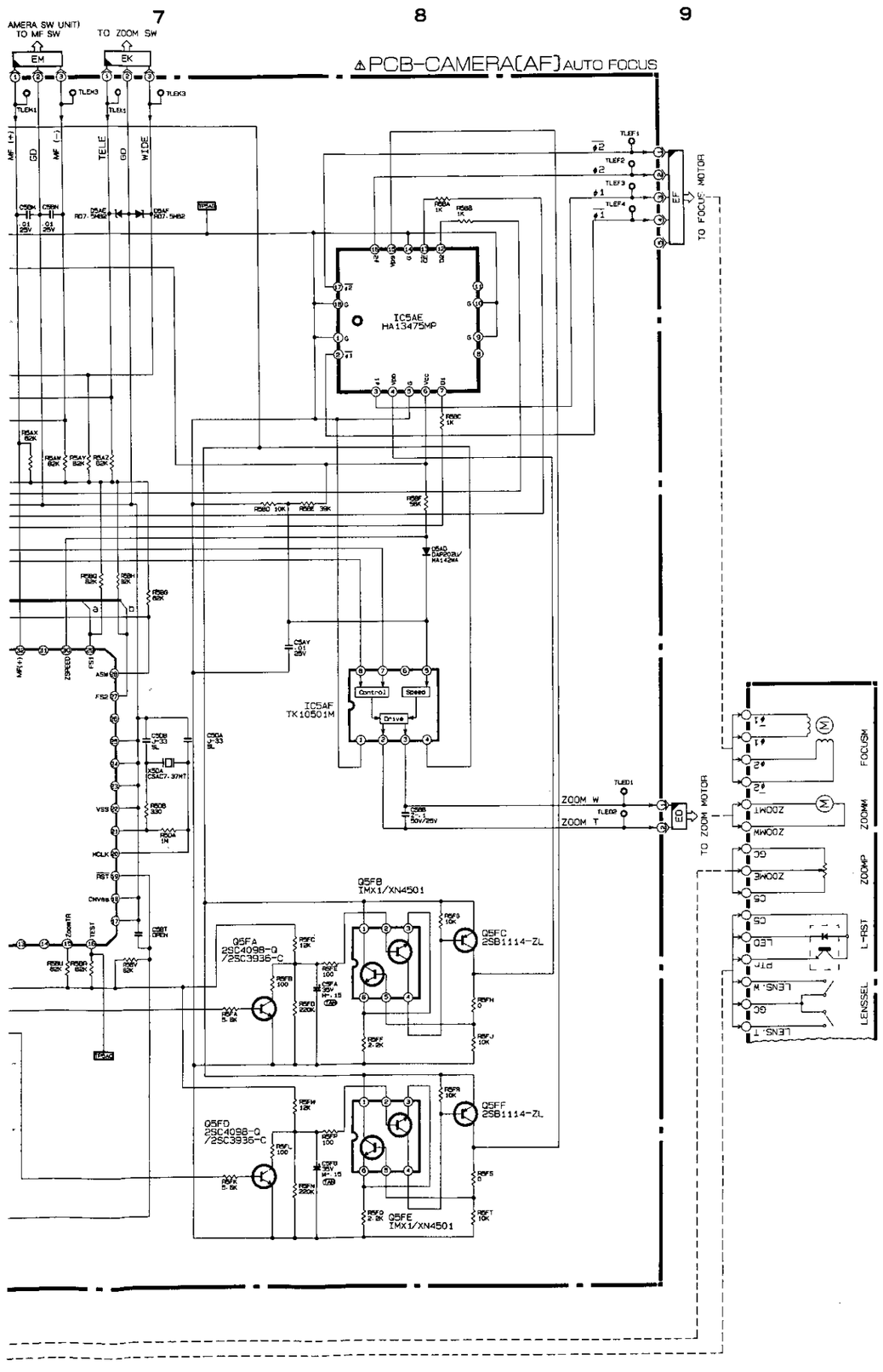
SERVICING PRECAUTION

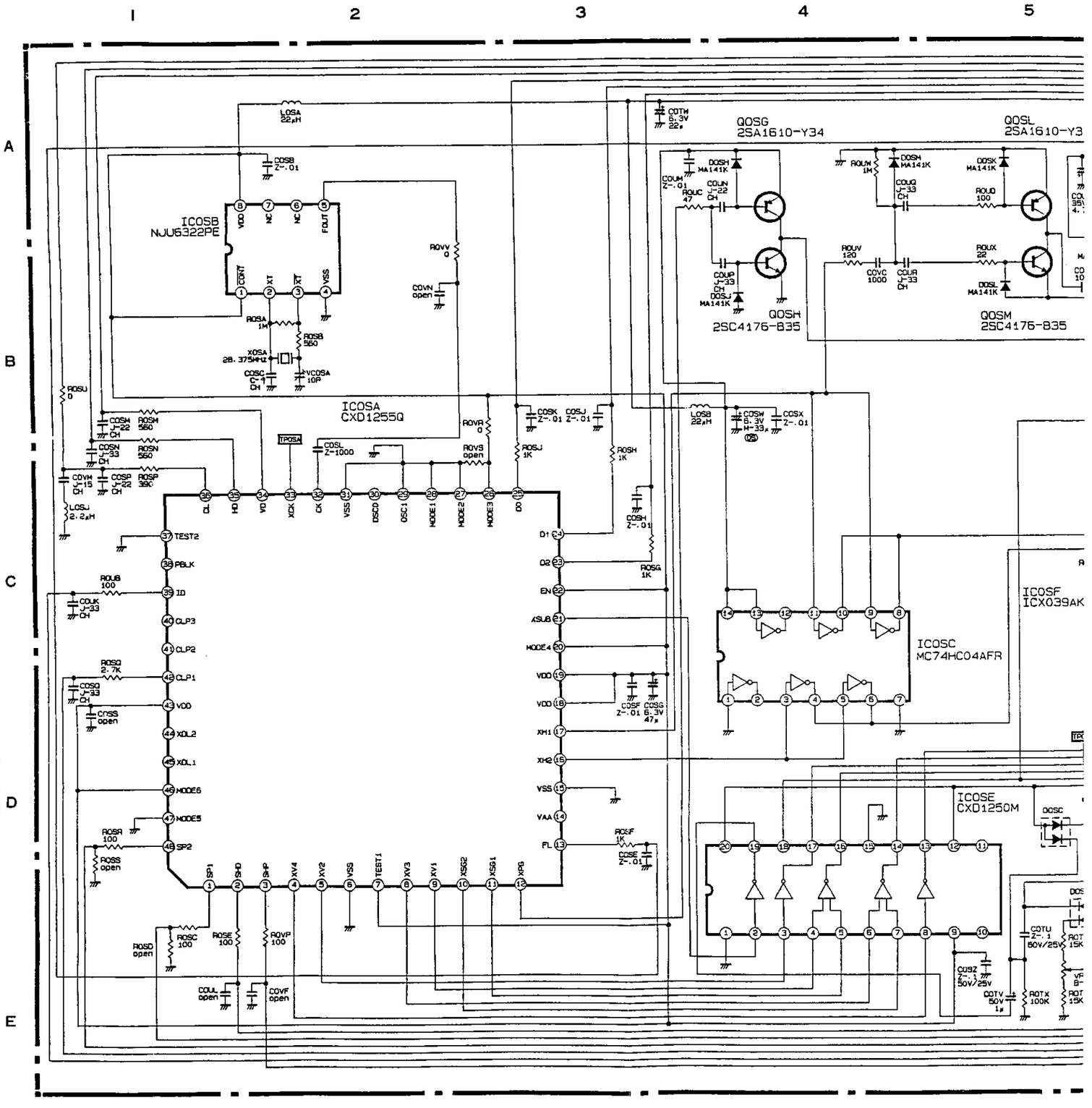
⚠ SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFOR REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS.

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

HS-C35A
HS-C35B
HS-C35E(1/6)


1
2
3
4
5
6
7
8
A
B
C
D
E
TO PC
(CAMERA SW UNIT)
TO MF SW
TO ZOOM SW
EM
EK
PCB-CAMERA
Q5AK
IMX1/XN4501
IC5AA
SM6104BS1
Q5AE
2SB1218A-R
Q5AG
DTC124EU
Q5AF
2SB1114-ZL
IC5AH
S-81350HG-KD-T1
IC5AE
HA13475MP
IC5AF
TK10501M
Q5AA
2SA1576-R/
2SB1218A-R
Q5AB
2SA1576-R/
2SB1218A-R
IC5AB
CF77504FR
IC5AC
SC7SU04F
IC5AD
M37420M6-454FP
Q5AT
2SC4098-Q/
2SC3936-C
Q5AD
2SC4098-Q
Q5AC
IMX1/XN4501
Q5AH
DTA124EU
Q5AJ
IMX1/
XN4501
Q5FB
IMX1/XN4501
Q5FA
2SC4098-Q
/2SC3936-C
Q5FC
2SB1114
Q5FD
2SC4098-Q
/2SC3936-C
Q5FF
2SB1114
Q5FE
IMX1/XN4501
TO CM
TO LENS UNIT
(LENS SEL·L-RST)
TO ZOOM-P
TO CM
RESISTORS ARE 1/15W RATING·1608 TYPE·J CLASS





1. DIODES ARE DAP202U/MA142WA UNLESS OTHERWISE SPECIFIED
2. NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED
3. PNP TRANSISTORS ARE 2SA1576-R/2SB1218A-R UNLESS OTHERWISE SPECIFIED

⚠PCB-SD (SENSOR DRIVE)

ICOSA CXD1255Q

ICOSC MC74HC04AFR

ICOSD CXA1439M

ICOSE CXD1250M

ICOSF ICX039AK

QOSG 2SA1610-Y34

QOSH 2SC4176-835

QOSL 2SA1610-Y34

QOSM 2SC4176-835

QOSN 2SA1577-Q/2SB1219A-R

QOSA

QOSB

QOSC IMX1 /XN4501

QOSD

QOSW

LFOSA 4FH-5309

TO PCB-CAMERA(PC) [EC]

TO PCB-CAMERA(CM) [EA]

CLP1 -9V 15V C5V CDS GC GC GC SP2 SP1

ID GC SHT-FL SHT-2 SHT-1 SHT-0 $\overline{VD}$ $\overline{HD}$ GC GC 14M GC

Ξ DAP202U/MA142WA UNLESS OTHERWISE SPECIFIED

ISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED

ISTORS ARE 2SA1576-R/2SB1218A-R UNLESS OTHERWISE SPECIFIED

⚠PCB-CAMER

Q2DA
FMG2/XN1213

IC2AC
SC7SU04F

IC2AB
CXD1158M

IC2AD
SC14S01F

IC2AE
SC14S01F

IC2AA
M52940FP

IC2AF
NJM2107F

IC2AG
OPEN

Q2EB
OPEN

LF2AB
4FUS-4566

TP2AB
0.9Vp-p
20μ sec

TP2AC
0.2Vp-p
20μsec

TO CM

TO PCB-VTR(I/O)
VP

TO CM

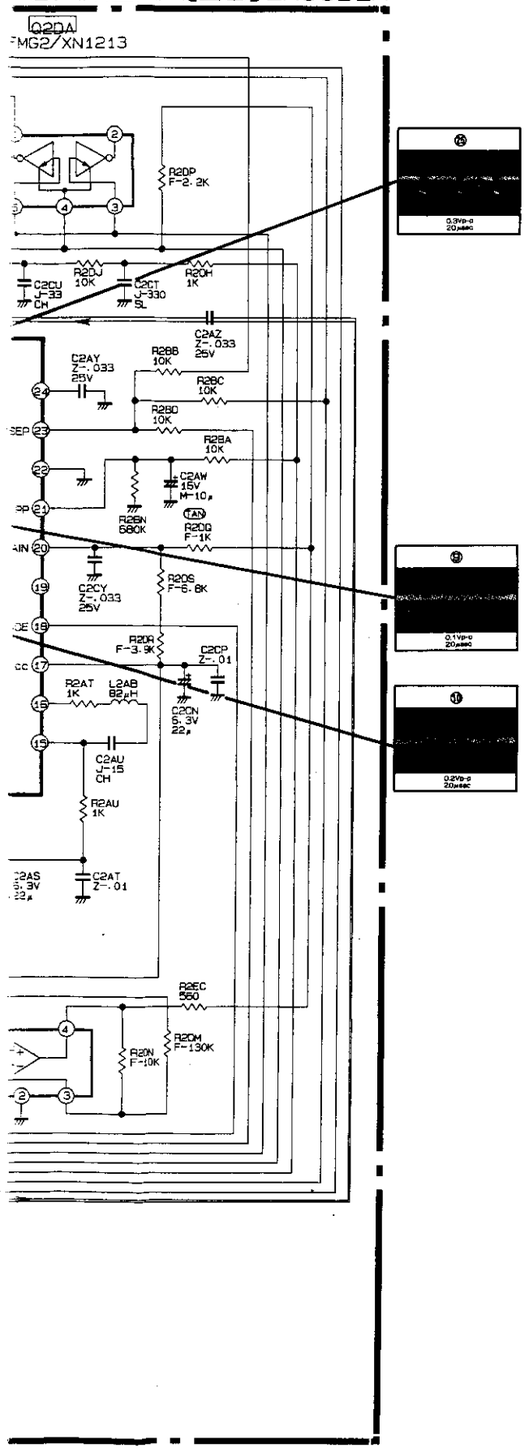
TO PC

1. NPN TRANSISTORS

2. PNP TRANSISTORS

8 9 10

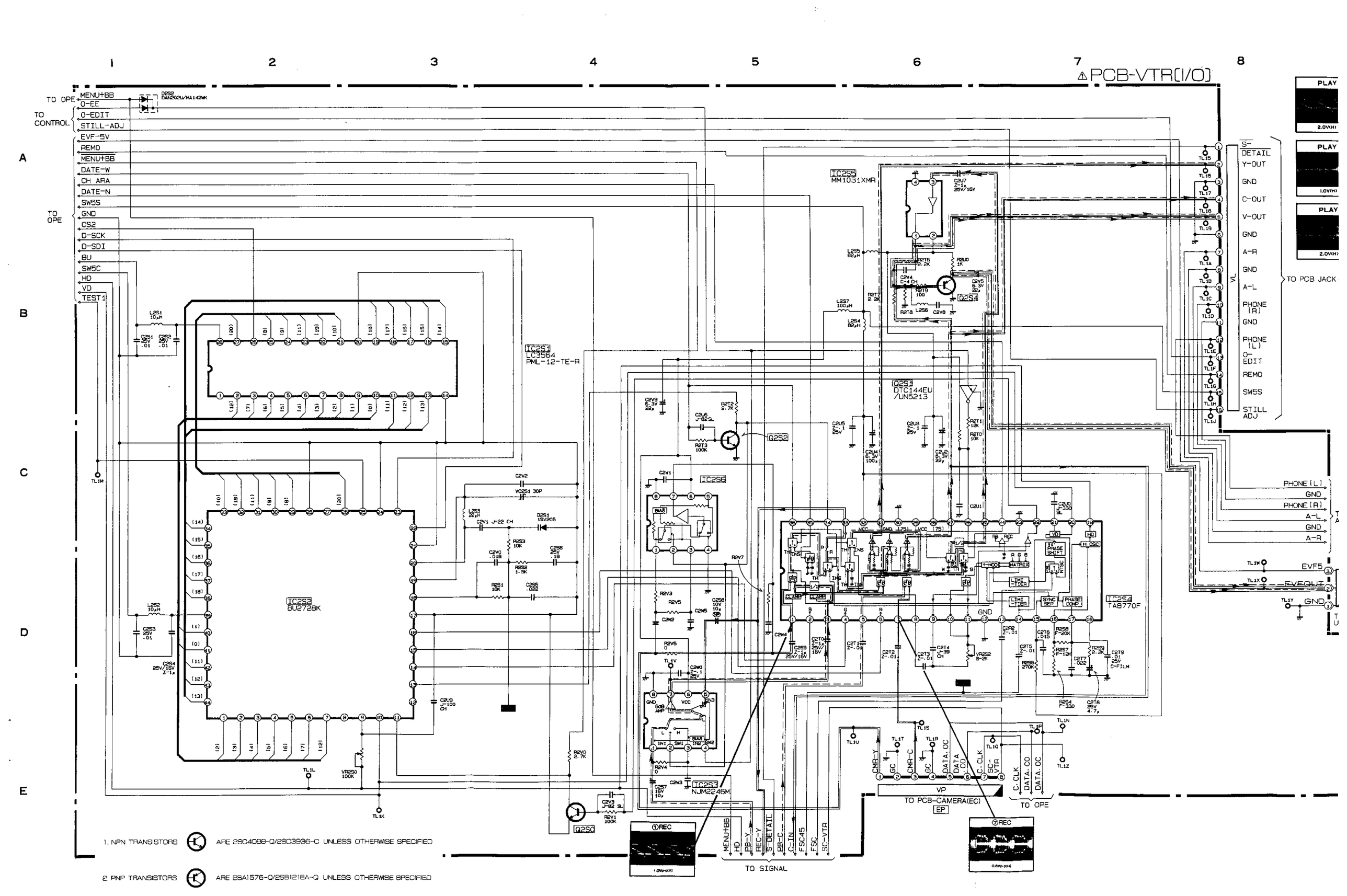
-CAMERA(EC) ENCODER

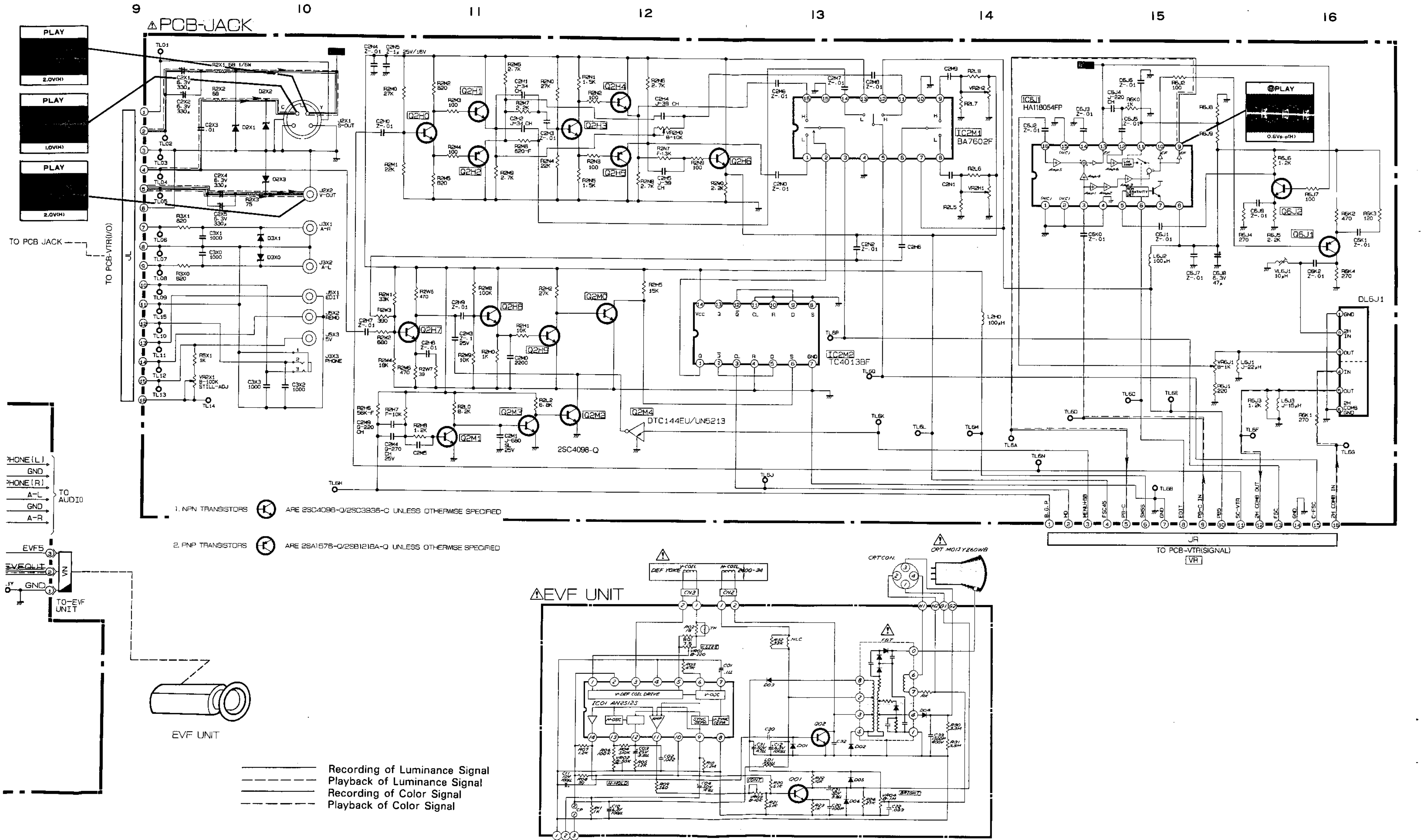


TRANSISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED

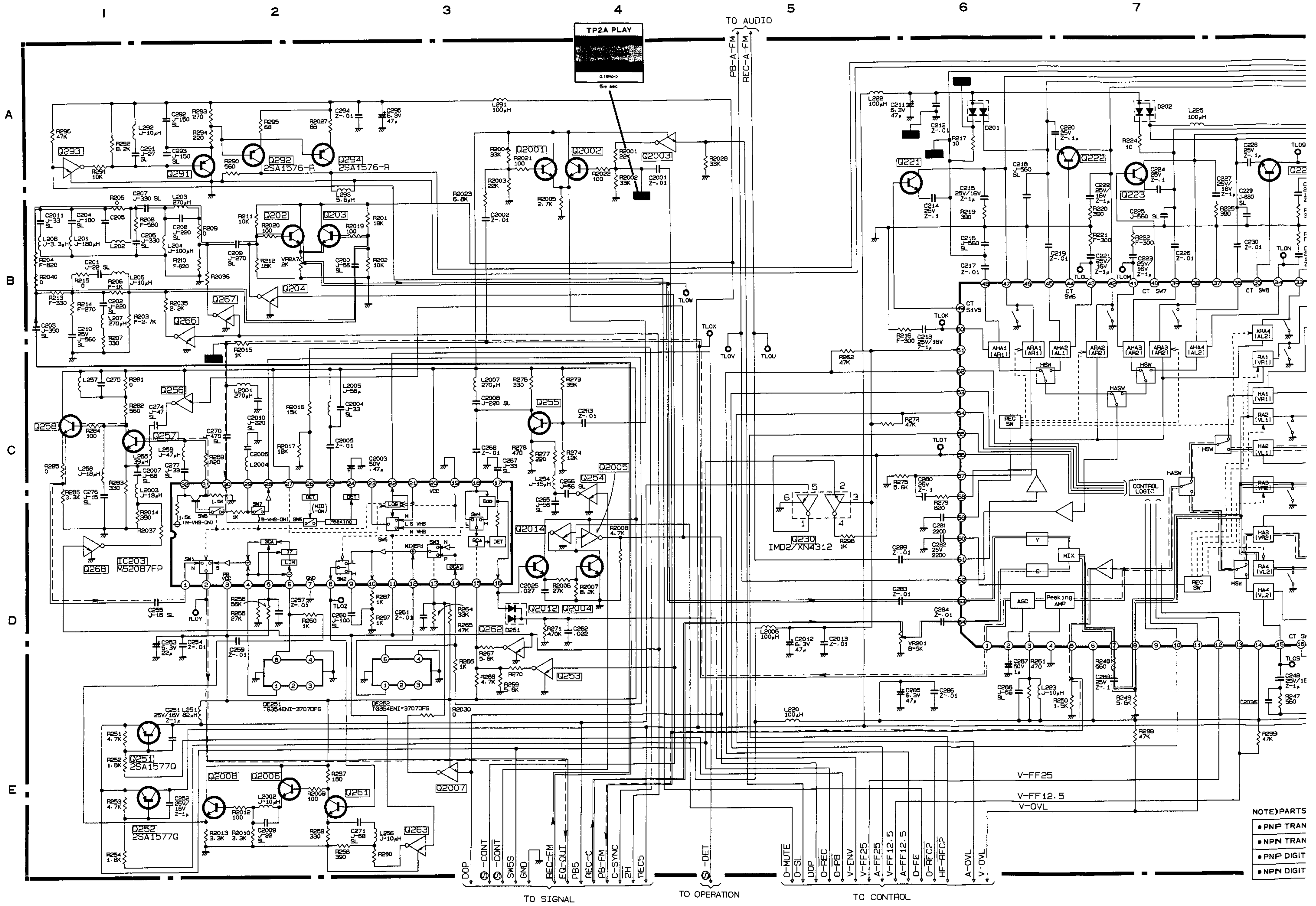
TRANSISTORS ARE 2SA1576-R/2SB1218A-R UNLESS OTHERWISE SPECIFIED

HS-C35A
HS-C35B
HS-C35E(3/6)


⚠PCB-VTR(I/O)
TO OPE
MENU+BB
O-EE
TO CONTROL
O-EDIT
STILL-ADJ
EVF-5V
REMO
MENU+BB
DATE-W
CH ARA
DATE-N
SW5S
TO OPE
GND
CS2
D-SCK
D-SDI
BU
SW5C
HD
VD
TEST1
TL1M
D2S2 DAN202U/MA142WK
L2S1 10μH
C2S1 25V .01
C2S2 25V .01
IC2S1 LC3564 PML-12-TE-A
L2S2 10μH
C2S3 25V .01
C2S4 25V/16V Z-1μ
IC2S2 8U2728K
C2V9 Y-100 CH
TL1L
VR2S0 100K
TL1K
C2V2 VC2S1 30P
L2S3 22μH
C2V1 J-22 CH
D2S1 15V205
R2S3 10K
C2V0 .018
C2S6 25V .18
R2S2 1.5K
R2S1 10K
C2S5 .022
R2V7
R2V3
R2V5
C2V5
C2V4
C2S8 10V 10μ
R2V5 0
C2V6
TL1V
C2V8 Z-.1 25V
IC2S6 BA8
R2V4 0
C2V3 J-82 SL
R2V1 100K
Q2S0
C2V7 Z-1μ 25V/16V
IC2S5 MM1031XMR
L2S5 82μH
R2T5 2.2K
R2U0 1K
C2V4 C-4 CH
R2T9 100
C2V8
R2T8
L2S6
L2S7 100μH
L2S4 82μH
Q2S4
C2V5 8.3V 82μ
R2T1 2K
Q2S1 DTC144EU /UN5213
C2U5 Z-.1 25V
C2U4 6.3V 100μ
C2U3 Z-.1 25V
C2U6 6.3V 22μ
R2T1 12K
R2T0 10K
C2V3 8.3V 22μ
C2U6 J-82 SL
R2T2 2.7K
R2T3 100K
Q2S2
C2W1
IC2S6
C2W0 Z-.1 25V
IC2S3 NJM2246M
R2V4 0
C2W3
C2S7 16V 10μ
C2W2
C2U1
C2U0 J-330 SL
IC2S4 TA8770F
C2T0 Z-.1 25V/16V
C2T1 Z-.01
C2T2 Z-.01
C2T4 CY-39
C2T3 Z-.01
vR2S2 B-2K
C2T5 Z-.01
C2T6 .015
R2S8 F-20K
R2S6 270K
R2S7 F-1.2K
R2S9 2.2K
C2T9 .01 25V C-FILM
R2S4 F-330
C2T8 25V 4.7μ
TL1N
TL1U
TL1S
TL1T
TL1R
TL1Q
TL1P
CMR-Y
GC
CMR-C
GC
DATA.OC
DATA.CO
C.CLK
SC-VTR
C.CLK
DATA.CO
DATA.OC
TL12
VP
TO PCB-CAMERA(EC)
EP
TO OPE
①REC
⑦REC
MENU+BB
HD
PB-Y
REC-Y
S-DETAIL
PB-C
C-IN
FSC45
FSC
SC-VTR
TO SIGNAL
S-DETAIL
Y-OUT
GND
C-OUT
V-OUT
GND
A-R
GND
A-L
PHONE (R)
GND
PHONE (L)
O-EDIT
REMO
SW5S
STILL ADJ
VL
TO PCB JACK
PHONE (L)
GND
PHONE (R)
A-L
GND
A-R
TA
EVF5
EVFOUT
GND
TU
PLAY
2.0V(H)
PLAY
1.0V(H)
PLAY
2.0V(H)
1. NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED
2. PNP TRANSISTORS ARE 2SA1576-Q/2SB1218A-Q UNLESS OTHERWISE SPECIFIED



9
10
11
12
13
14
15
16
PCB-JACK
PLAY
2.0V(H)
PLAY
1.0V(H)
PLAY
2.0V(H)
TO PCB JACK
TO PCB-VTR(I/O)
JL
Q2H0
Q2H1
Q2H2
Q2H3
Q2H4
Q2H5
Q2H6
IC2M1
BA7602F
IC6J1
HA118054FP
PLAY
0.6Vp-p(H)
Q6J2
Q6J1
DL6J1
Q2H7
Q2H8
Q2H9
Q2M0
IC2M2
TC4013BF
Q2M1
Q2M2
Q2M3
Q2M4
DTC144EU/UN5213
2SC4098-Q
1. NPN TRANSISTORS ARE 2SC4098-Q/2SC3938-C UNLESS OTHERWISE SPECIFIED
2. PNP TRANSISTORS ARE 2SA1576-Q/2SB1218A-Q UNLESS OTHERWISE SPECIFIED
PHONE(L)
GND
PHONE(R)
A-L
GND
A-R
TO AUDIO
EVF5
EVFOUT
GND
TO-EVF UNIT
JR
TO PCB-VTR(SIGNAL)
VR
EVF UNIT
DEF YOKE
CRT CON.
CRT M01JYZ60WB
IC01 AN2512S
EVF UNIT
Recording of Luminance Signal
Playback of Luminance Signal
Recording of Color Signal
Playback of Color Signal



1
2
3
4
5
6
7
A
B
C
D
E
TP2A PLAY
5m sec
TO AUDIO
PB-A-FM
REC-A-FM
Q291
Q292
2SA1576-R
Q294
2SA1576-R
Q293
Q2001
Q2002
Q2003
Q202
Q203
Q204
Q256
Q257
Q258
Q255
Q254
Q2005
Q2014
Q2012
Q2004
Q262
Q253
Q266
Q267
Q268
IC203
M52087FP
Q230
IMD2/XN4312
Q221
Q222
Q223
Q251
2SA1577Q
Q252
2SA1577Q
Q2008
Q2006
Q261
Q263
Q2007
DE251
TG354ENI-3707DFG
DE252
TG354ENI-3707DFG
CONTROL LOGIC
REC SW
HSW
HASW
AGC
Peaking AMP
MIX
TLOW
TLOX
TLOV
TLOU
TLOY
TLOZ
TLOK
TLOT
TLOL
TLOM
TLON
TLOS
V-FF25
V-FF12.5
V-OVL
DOP
SW5S
GND
REC-FM
EQ-OUT
PB5
REC-C
PB-FM
C-SYNC
2H
REC5
TO SIGNAL
-DET
TO OPERATION
O-MUTE
O-SL
O-REC
O-PB
V-ENV
V-FF25
A-FF25
V-FF12.5
A-FF12.5
O-FE
O-REC2
HF-REC2
A-OVL
V-OVL
TO CONTROL
NOTE)PARTS
•PNP TRAN
•NPN TRAN
•PNP DIGIT
•NPN DIGIT

⚠PCB-VTR(HA) HEAD AMP

TP2A PLAY

TO AUDIO

PB-A-FM

REC-A-FM

TO DECK

VG

FPC

FE(S)
FE(F)
GND
AL2(S)
AL2(F)
AR1(S)
AR1(F)
AL1(S)
AL1(F)
AR2(S)
AR2(F)
GND
VR1(S)
VR1(F)
VL1(S)
VL1(F)
VR2(S)
VR2(F)
VL2(S)
VL2(F)

20(S) 19(F) 18(GND) 17(S) 16(F) 15(S) 14(F) 13(S) 12(F) 11(S) 10(F) 9(GND) 8(S) 7(F) 6(S) 5(F) 4(S) 3(F) 2(S) 1(F)

FE
AR1
AL1
AR2
AL2
VR1
VL1
VR2
VL2

IC201 AN3348FBP

Q2001 Q2002 Q2003 Q221 Q222 Q223 Q224 Q225 Q226 Q227 Q228 Q255 Q2005 Q254 Q2014 Q2012 Q2004 Q252 Q253 Q230

IMD27XN4312

D201 D202 D203 D204 D251

V-FF25
V-FF12.5
V-OVL

TO SIGNAL: DOP, -CONT, -CONT, SW5S, GND, REC-FM, EQ-OUT, PB5, REC-C, PB-FM, C-SYNC, 2H, REC5

TO OPERATION: -DET

TO CONTROL: O-MUTE, O-SL, DOP, O-REC, O-PB, O-ENV, V-FF25, A-FF25, V-FF12.5, A-FF12.5, O-FE, O-REC2, HF-REC2, A-OVL, V-OVL

NOTE)PARTS WITHOUT INDICATION IN SCHEMATIC DIAGRAM.

- PNP TRANSISTORS ARE 2SA1576Q/2SB1218A-Q
- NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C
- PNP DIGITAL TRANSISTORS ARE DTA144EU/UN5113
- NPN DIGITAL TRANSISTORS DTC144EU/UN5213

DAN202U /MA142WK

DAP202U /MA142WA

HS-C35A
HS-C35B
HS-C35E(5/6)

⚠PCB-VTR(AUDIO)

1 2 3 4 5 6 7

A B C D E

MM
TO PCB-MIC AMP
VM
SW5S
MIC(R)
GND
MIC(L)
GND
FADE
TL30 TL31 TL32 TL33 TL3X TL3Y

TO OPERATION.
HiFi/NORMAL
FADE
MUTE
GND
SW5S
A-REC-BIAS

L3A0 100μH

IC300
BA7757BK
INPUT SW
120KΩ
PB
BIAS
IC32P
Vreg
REC
24.4dB
39.2dB
IN
BF
ALC
BIAS

C307 J-2700 SL
C320 25V J-680 SL
R316 22K
C319 25V .47μ TAN
C309 220
C306 25V J-5600 FILM
C321 6.3V 22μ
R318 120
R319 120K
C315 .022
C322 6.3V 22μ
R315 3.9K
C318 Z-.1μ 25V
R320 3.9K
C316 35V 3.3μ
R321 4.7K
R313 15K
C317 35V 3.3μ
R314 3.9K
R309 6.8K
TL3U
C304 Z-.47 25V/16V
R310 330
Q302 DTA144EU /UN5113
R307 4.7K
R306 2.2K
TL3H
TL3G
TL3E
C300 6.3V 22μ
C301 6.3V 22μ NP
C302 6.3V 22μ
R300 220K
R302 10K
R303 22K

IC3A0
AN3935NFHP
D3A0 DAN202U /MA142WK
C3C9 6.3V 22μ
VR3A2 B-5K
C3C8 J-2200 SL
C3C7 16V 10μ
R3A8 22K
R3A9 F-2.4K
C3C5 50V 2.2μ
C3C6 25V .01
C3C4 6.3V 47μ NP
C3C3 16V 4.7μ NP
C3C2 25V J-.01 FILM
R322 120K
R323 120K
C3B9 35V 3.3μ
TL3C
R3C9 10K
R3A5 4.7K
C3B8 6.3V 47μ
C3B7 6.3V 22μ
R3C8 10K
C3B5 16V 10μ
C3E7 6.3V 22μ
C3B3 6.3V 22μ
C3B4 25V/16V Z-1μ
C3A8 6.3V 22μ
C3B2 16V 10μ
C3B1 6.3V 22μ
R3C2 1K
C3E0 .1 25V
C3B0 25V 4.7μ
C3A9 35V 3.3μ
TL3D

TP3A
TP3C
R3B0 12K
VR3A3 B-10K
C3D0 Z-.01
C3D1 Z-.01
BPF3A0 RZV-397N(1.4MHz)
R3B2
R3B5 4.7K
C3D2 50V 1μ
R3E2 2.7K
TL3B
C3D3 25V .01
R3B6 2.2K
TP3G
C3D9 25V Z-.1
R3B3 33K
C3D4 Z-.01
C3E3 Z-.01
TP3F
C3D5 J-220 SL
R3B4 2.7K
R3E0
R3E1 0
BPF3A1 RZV-398N(1.8MHz)
C3D7 Z-.01
C3D8 Z-.01
R3B1 4.7K
R3B9 1.5K
TP3E
R3B7 4.7K
P8-A-FM
R3C0 1.5K
R3C1 220
R3B8 2.2K
TO HA
REC-A-FM
VR3A4 B-5K
R3C4
R3C3 6.8K
Q3A4 DTC144EU/UN5213
Q3A5 DTC144EU/UN5213

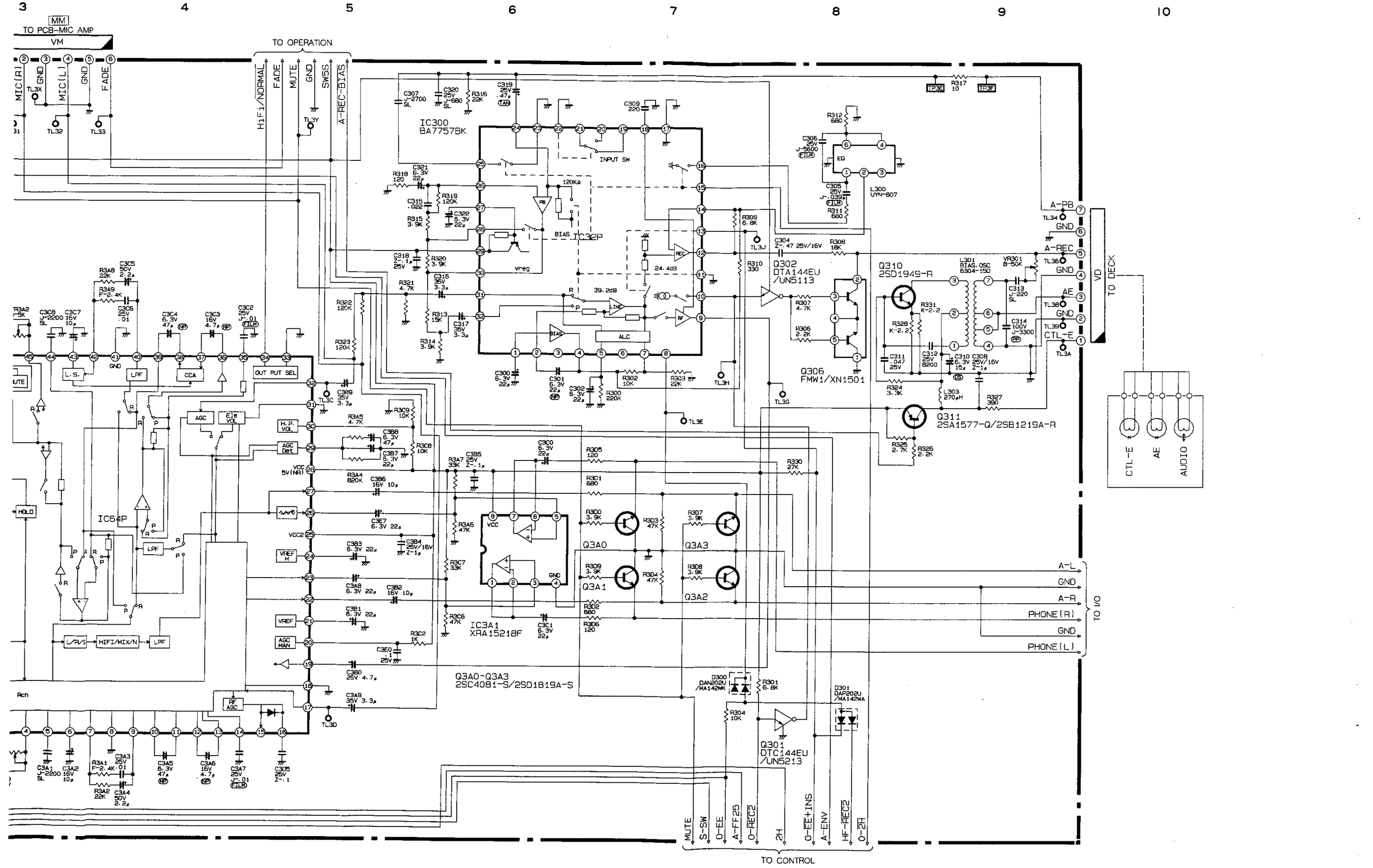
IC64P
VCO
AL
MUTE
RF LPF
RF LIM
R/P
FM LIN
Enve
VCC 5V(FM)
AMP
GND (FM)
0dB 4dB
X2
m.m
PC
ALPF
HOLD
DOC.
L.S.
GND
LPF
CCA
OUT PUT SEL
AGC
Ele VOL
H.P. VOL
AGC Det
VCC 5V(NR)
VCC2
VREF H
VREF
AGC MAN
RF AGC
L/R/S
HIFI/MIX/N
LPF
Rch

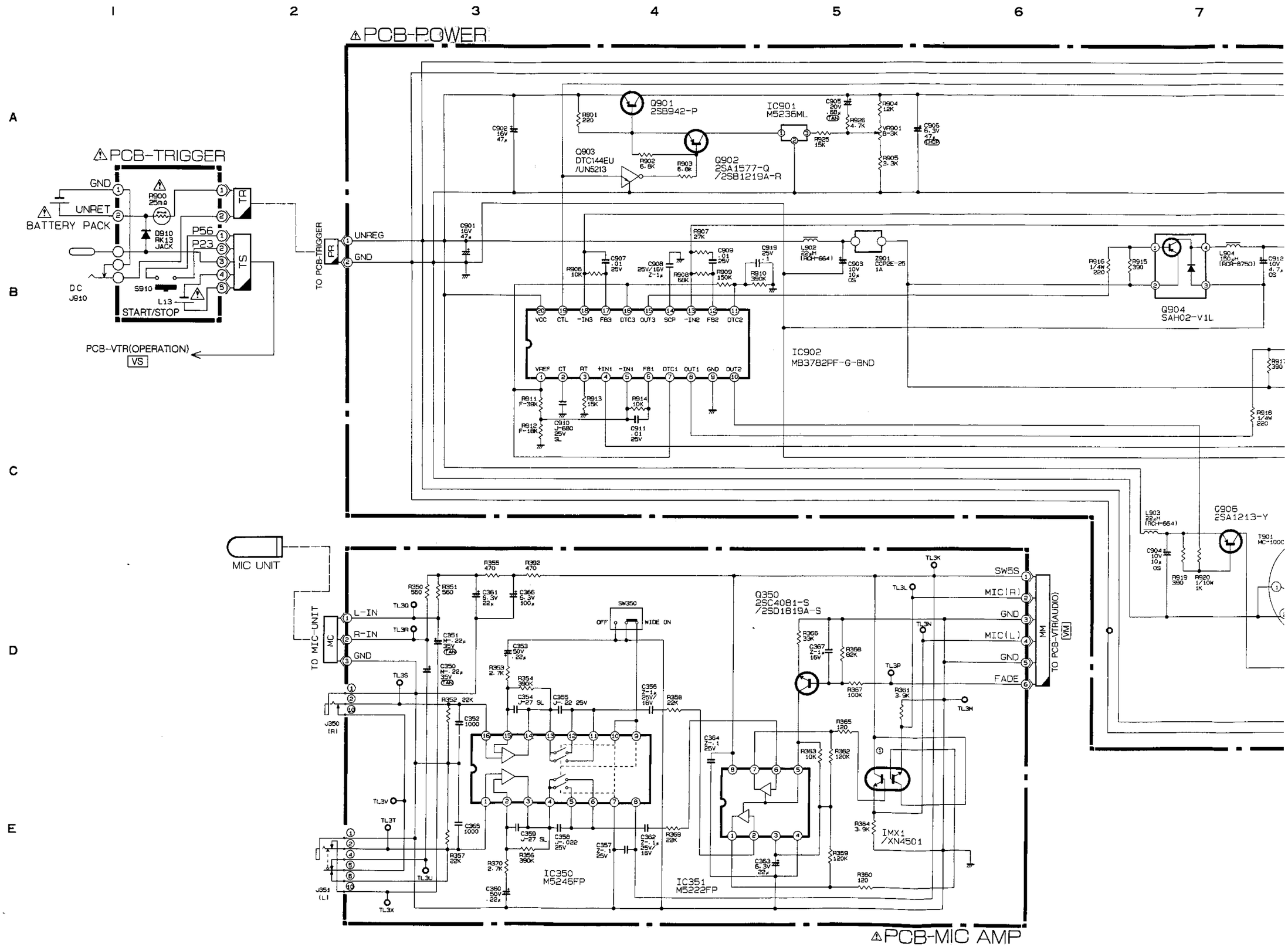
R3A0 10K
VR3A0 B-10K
VR3A1 B-5K
C3A0 6.3V 22μ
C3A1 J-2200 SL
C3A2 16V 10μ
R3A1 F-2.4K
C3A3 25V .01
R3A2 22K
C3A4 50V 2.2μ
C3A5 6.3V 47μ NP
C3A6 16V 4.7μ NP
C3A7 25V J-.01 FILM
C3D5 25V Z-.1

IC3A1
XRA1521BF
VCC
GND
R3A7 33K
C3C0 6.3V 22μ
C3B5 25V Z-.1μ
R3A6 47K
R3C7 33K
R3C6 47K
C3C1 6.3V 22μ
R305 120
R3D1 680
R3D0 3.9K
R3D3 47K
R3D7 3.9K
Q3A0
Q3A3
R3D9 3.9K
R3D4 47K
R3D8 3.9K
Q3A1
Q3A2
R3D2 680
R3D6 120
R330 27K
Q3A0~Q3A3
2SC4081-S/2SD1819A-S

D300 DAN202U /MA142WK
R301 6.8K
R304 10K
Q301 DTC144EU /UN5213

MUTE
S-SW
O-EE
A-FF25
O-REC2
2H
O-EE+INS
TO CONTROL


3
4
5
6
7
8
9
10
MM
TO PCB-MIC AMP
VM
MIC(R)
GND
MIC(L)
GND
FADE
TL3X
TL32
TL33
TO OPERATION
HiFi/NORMAL
FADE
MUTE
GND
SW5S
A-REC-BIAS
TL3Y
IC300
BA7757BK
INPUT SW
120KΩ
PB
BIAS
IC32P
vreg
REC
24.4dB
39.2dB
LINE
RF
BIAS
ALC
R
P
IC54P
L.S.
LPF
CCA
OUT PUT SEL
AGC
Ele VOL
H.P. VOL
AGC Det
VCC 5V(NA)
VCC2
VREF H
VREF
AGC MAN
RF AGC
HOLD
L/R/S
HIFI/MIX/N
LPF
Ach
TL3C
TL3D
TL3E
TL3G
TL3H
TL3J
TP3F
R317 10
Q310 2SD1949-R
Q306 FMW1/XN1501
Q302 DTA144EU /UN5113
Q311 2SA1577-Q/2SB1219A-R
Q301 DTC144EU /UN5213
Q3A0
Q3A1
Q3A2
Q3A3
Q3A0~Q3A3 2SC4081-S/2SD1819A-S
IC3A1 XRA15218F
L300 UYN-807
L301 BIAS. OSC 6304-150
L303 270μH
VR301 B-50K
D300 DAN202U /MA142WK
D301 DAP202U /MA142WA
A-PB
GND
A-REC
GND
AE
GND
CTL-E
TL34
TL36
TL38
TL39
TL3A
VD
TO DECK
CTL-E
AE
AUDIO
A-L
GND
A-R
PHONE(R)
GND
PHONE(L)
TO I/O
MUTE
S-SW
O-EE
A-FF25
O-REC2
2H
O-EE+INS
A-ENV
HF-REC2
O-2H
TO CONTROL


⚠PCB-TRIGGER
GND
UNRET
BATTERY PACK
R900 25mΩ
D910 RK13 JACK
P56
P23
TR
TS
DC J910
S910
L13
START/STOP
PCB-VTR(OPERATION)
VS
TO PCB-TRIGGER
PR
UNREG
GND
⚠PCB-POWER
Q901 2SB942-P
Q903 DTC144EU /UN5213
Q902 2SA1577-Q /2SB1219A-R
IC901 M5236ML
IC902 MB3782PF-G-BND
Q904 SAH02-V1L
Z901 CCP2E-25 1A
L902 22μH (RCH-664)
L903 22μH (RCH-664)
L904 150μH (RCH-8750)
Q905 2SA1213-Y
T901 MIC-100C
MIC UNIT
TO MIC-UNIT
MC
L-IN
R-IN
GND
J350 (R)
J351 (L)
IC350 M5246FP
IC351 M5222FP
Q350 2SC4081-S /2SD1819A-S
IMX1 /XN4501
SW350
OFF
WIDE ON
SW5S
MIC(R)
GND
MIC(L)
GND
FADE
MM
TO PCB-VTR(AUDIO)
VM
⚠PCB-MIC AMP

4 5 6 7 8 9 10

Q901 2SB942-P
Q903 DTC144EU /UN5213
Q902 2SA1577-Q /2SB1219A-R
IC901 M5236ML
IC902 MB3782PF-G-BND
Q904 SAH02-V1L
Q905 SAH02-V1L
Q906 2SA1213-Y
T901 MC-100C
D903 MA142WA
D904 MA142WA
D905 DAP202U /MA142WA

UNREG
G MOTOR
POWER-CONT
V PROT
EVF5
SW5C
GND
GND
GND
SW5S
SW5S
V CP
G CP
CP-ERR
V D
G D
V ERR-D
NC

TO PCB-VTR(OPERATION) [VQ]

UNREG
G URG
C5V
G C
15V
-9V

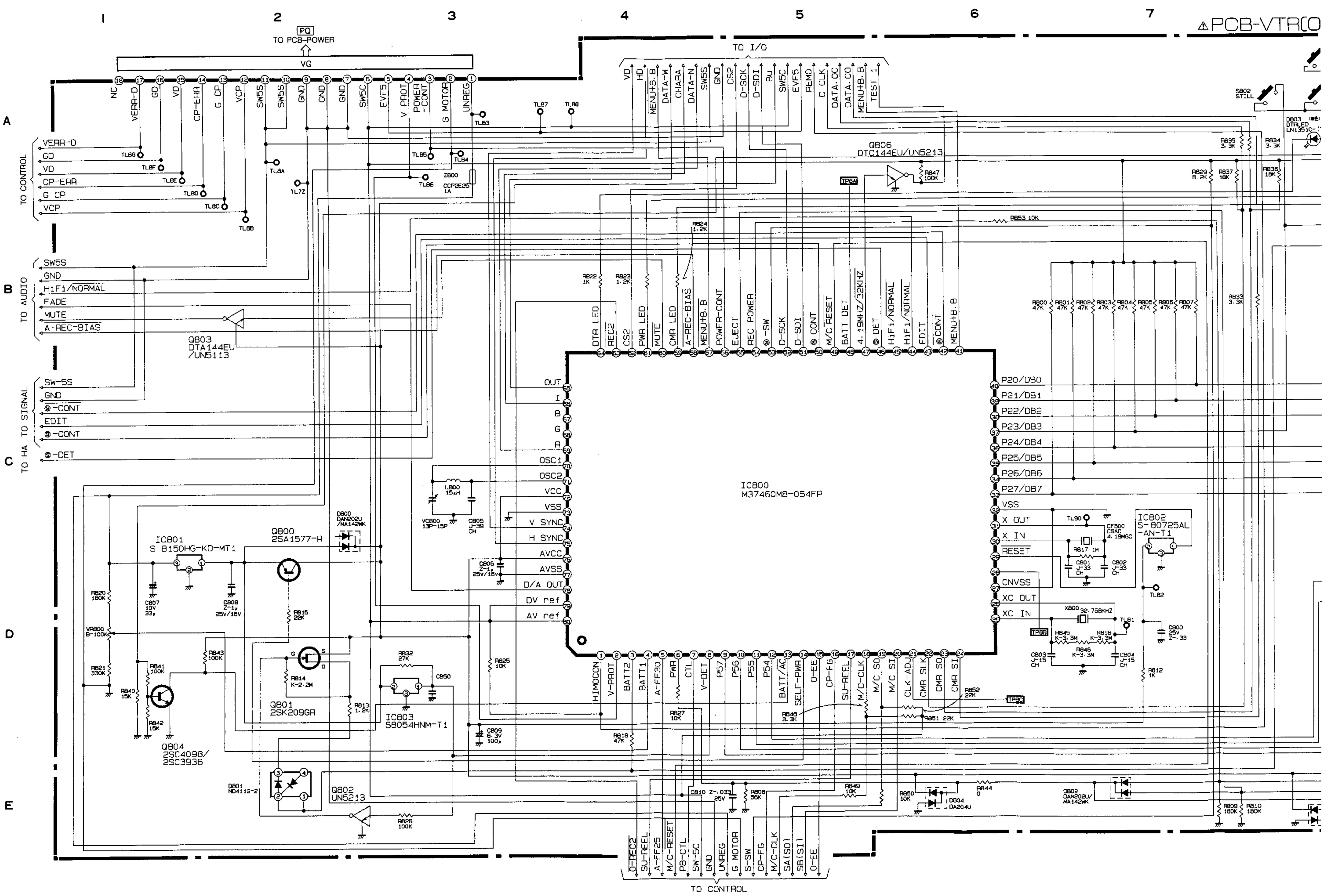
TO PCB-CAMERA(PC) [ES]

Q350 2SC4081-S /2SD1819A-S
IC350 M5246FP
IC351 M5222FP
IMX1 /XN4501
SW350 OFF WIDE ON

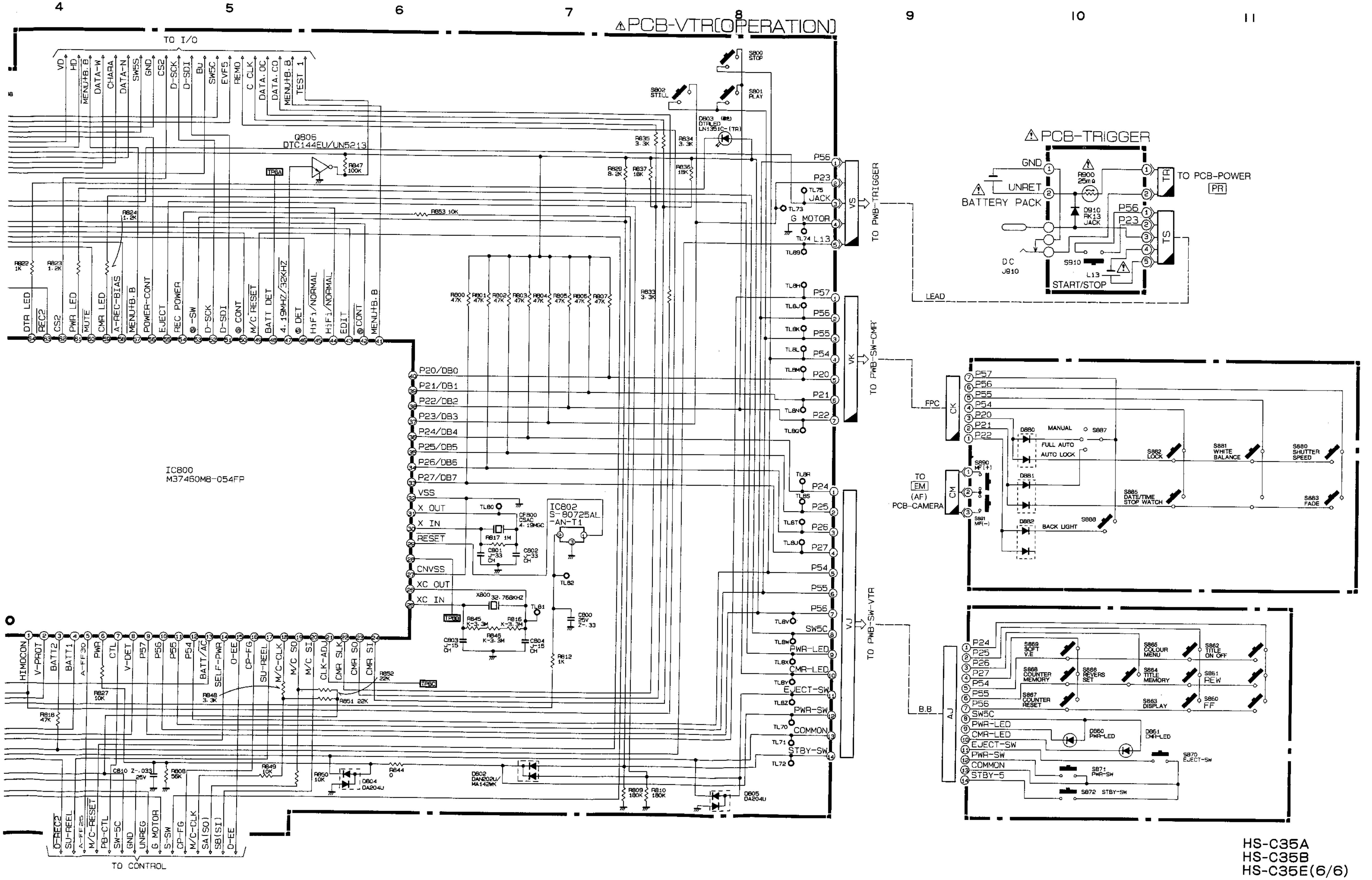
SW5S
MIC(R)
GND
MIC(L)
GND
FADE

TO PCB-VTR(AUDIO) [VM]

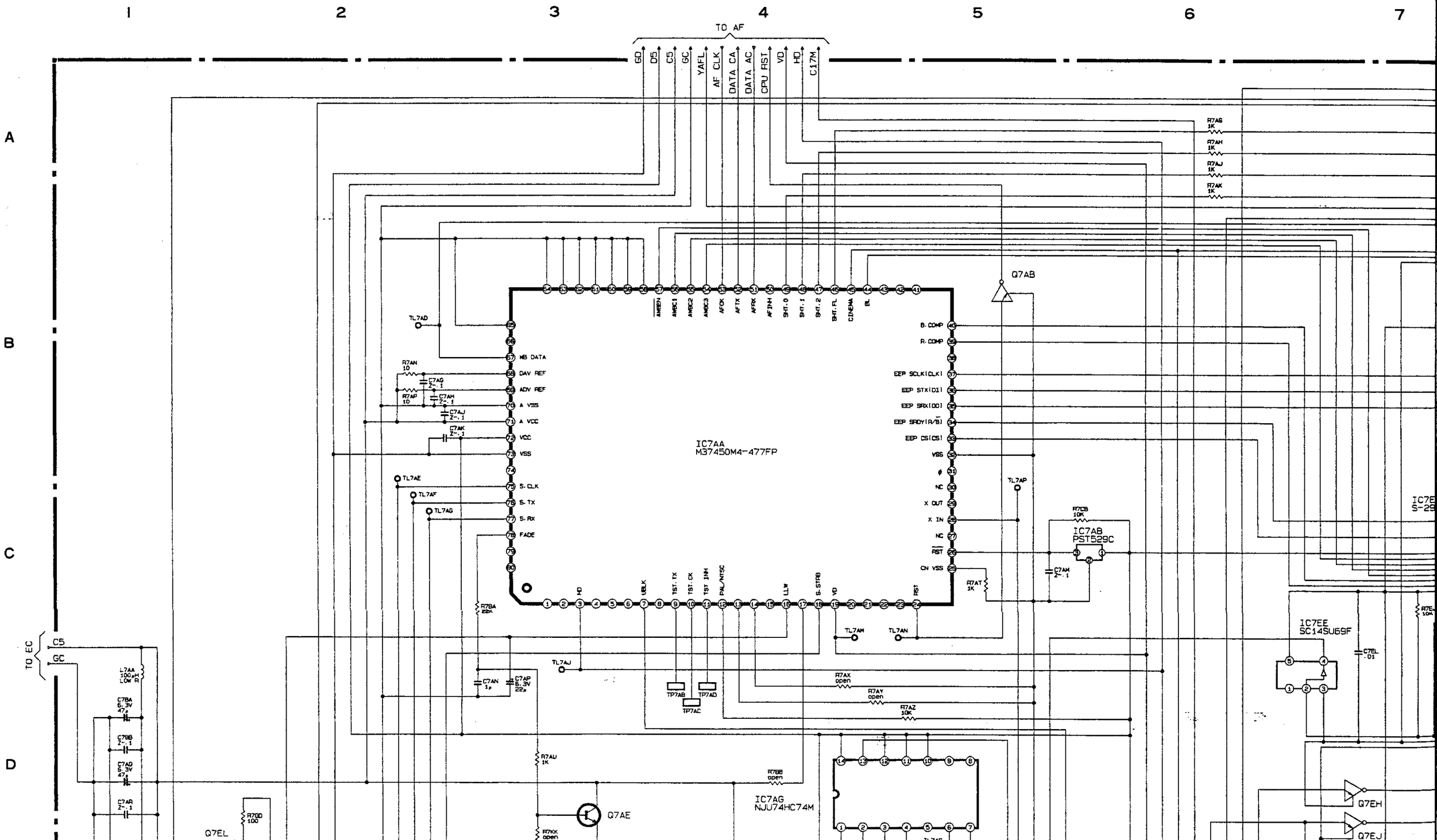
⚠PCB-MIC AMP



⚠PCB-VTR(O
TO PCB-POWER
PQ
VQ
TO I/O
TO CONTROL
VERR-D
GD
VD
CP-ERR
G CP
VCP
TO AUDIO
SW5S
GND
HiFi/NORMAL
FADE
MUTE
A-REC-BIAS
TO HA
TO SIGNAL
SW-5S
-CONT
EDIT
-DET
IC800
M37460M8-054FP
IC801
S-8150HG-KD-MT1
IC802
S-80725AL-AN-T1
IC803
S8054HNM-T1
Q800
2SA1577-R
Q801
2SK209GR
Q802
UN5213
Q803
DTA144EU/UN5113
Q804
2SC4098/2SC3936
Q806
DTC144EU/UN5213
D800
DAN202U/MA142WK
D801
ND411G-2
D802
DAN202U/MA142WK
D804
DA204U
D803
DTALED LN1351C
S802
STILL
X800 32.768KHZ
CF800 CSAC 4.19MGC
L800 15μH
VC800 13P-15P
TO CONTROL
D-REC2
SU-REEL
A-FF25
M/C-RESET
PB-CTL
SW-5C
GND
UNREG
G MOTOR
S-SW
CP-FG
M/C-CLK
SA(SO)
SB(SI)
D-EE

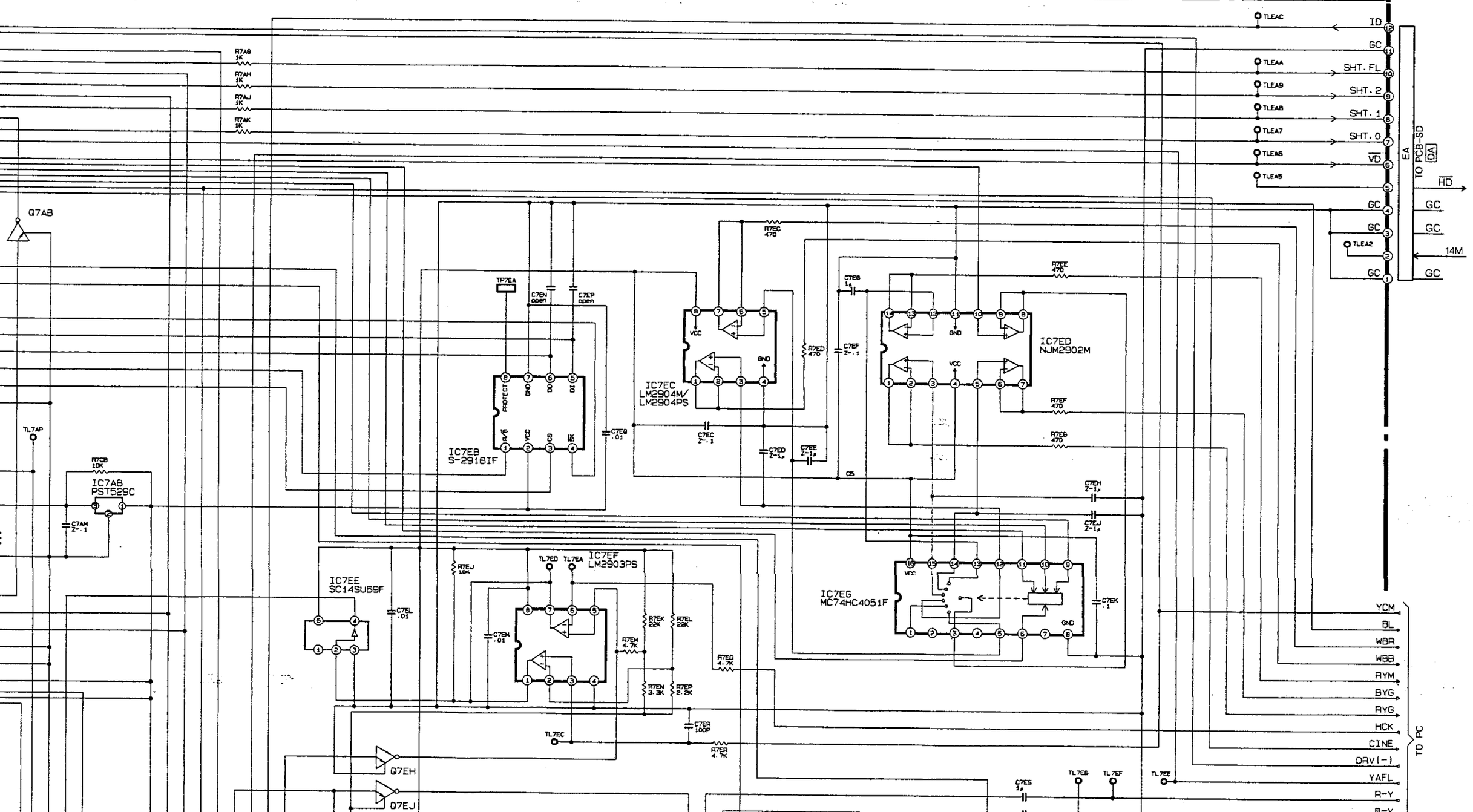


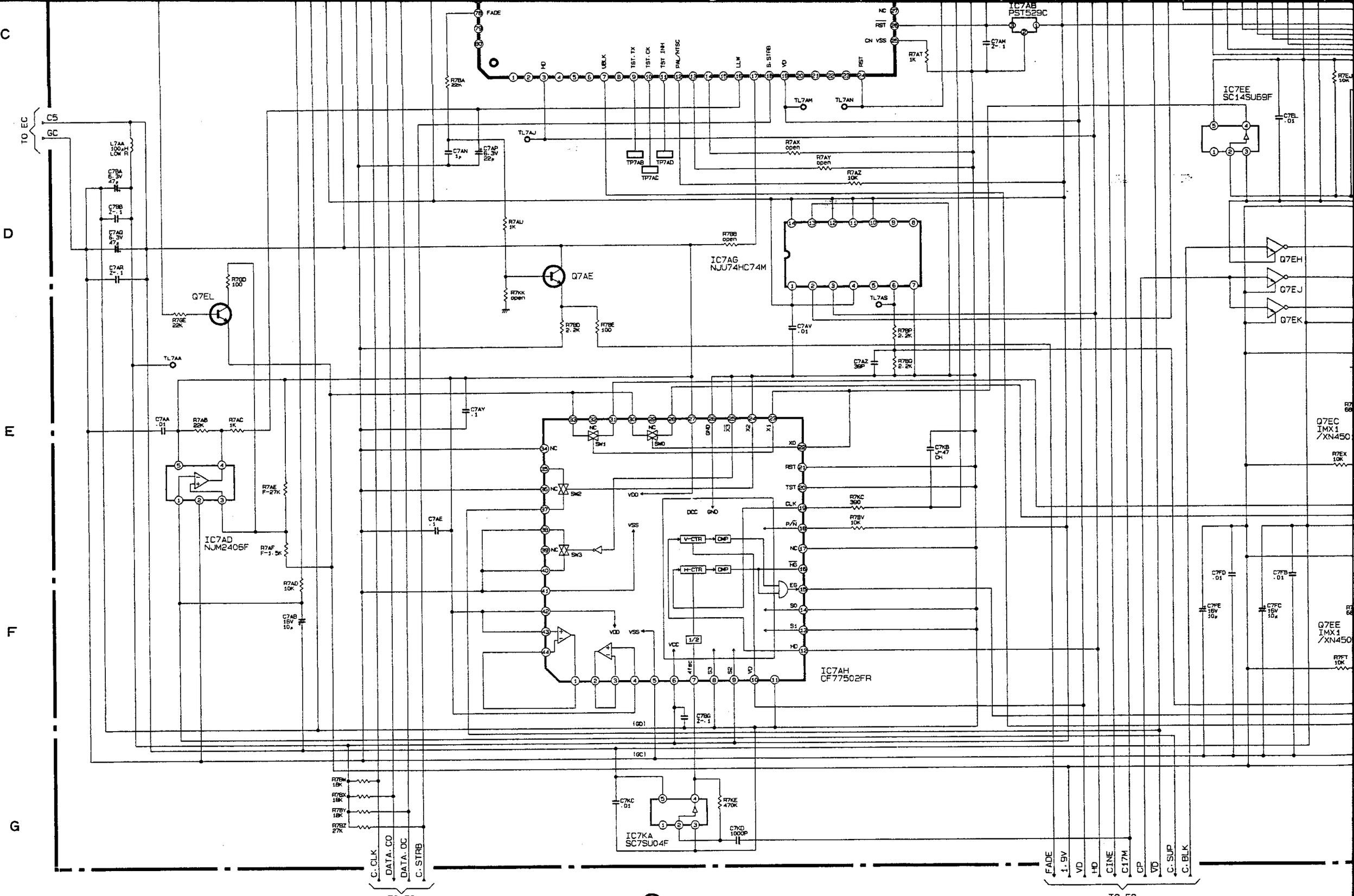
HS-C35A
HS-C35B
HS-C35E(6/6)


1
2
3
4
5
6
7
A
B
C
D
TO AF
GD
D5
C5
GC
YAFL
AF CLK
DATA CA
DATA AC
CPU RST
VD
HD
C17M
IC7AA
M37450M4-477FP
IC7AB
PST529C
IC7AG
NJU74HC74M
IC7EE
SC14SU69F
Q7AB
Q7AE
Q7EL
Q7EH
Q7EJ
TO EC
C5
GC
TL7AD
TL7AE
TL7AF
TL7AG
TL7AJ
TL7AM
TL7AN
TL7AP
MB DATA
DAV REF
ADV REF
A VSS
A VCC
VCC
VSS
S. CLK
S. TX
S. RX
FADE
B. COMP
R. COMP
EEP SCLK(CLK)
EEP STX(DI)
EEP SRX(DO)
EEP SRDY(R/B)
EEP CS(CS)
VSS
NC
X OUT
X IN
NC
RST
CN VSS
HD
VBLK
TST. TX
TST. CK
TST INH
PAL/NTSC
LLM
S-STRB
VD
RST
AWBEN
AWBC1
AWBC2
AWBC3
AFCK
AFTX
AFRX
AFINH
SHT. 0
SHT. 1
SHT. 2
SHT. FL
CINEMA
BL
R7AN 10
R7AP 10
R7AQ 1K
R7AH 1K
R7AJ 1K
R7AK 1K
R7BA 22K
R7AU 1K
R7BB open
R7KK open
R7CB 10K
R7AT 1K
R7AX open
R7AY open
R7AZ 10K
R7GD 100
C7AG 2~.1
C7AH 2~.1
C7AJ 2~.1
C7AK 2~.1
C7AM 2~.1
C7AN 1μ
C7AP 6.3V 22μ
C7BA 6.3V 47μ
C7BB 2~.1
C7AQ 6.3V 47μ
C7AR 2~.1
C7EL .01
L7AA 100μH LOW R
TP7AB
TP7AC
TP7AD

6 7 8 9 10 11

⚠ PCB-CAMERA [CM] CAMERA MICRO COMPUTOR




C
D
E
F
G
TO EC
C5
GC
IC7AB
PST529C
IC7EE
SC14SU69F
IC7AG
NJU74HC74M
Q7AE
Q7EL
Q7EH
Q7EJ
Q7EK
IC7AD
NJM2406F
IC7AH
CF77502FR
IC7KA
SC7SU04F
Q7EC
IMX1
/XN450
Q7EE
IMX1
/XN450
FADE
HD
VBLK
TST. TX
TST. CK
TST INH
PAL/NTSC
LLM
S-STRB
VD
RST
C. CLK
DATA. CO
DATA. OC
C. STRB
1.9V
CINE
C17M
CP
C. SUP
C. BLK
TO EC
1. NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED
2. NPN DEGITAL TRANSISTORS ARE DTC144EU/UN5213 UNLESS OTHERWISE SPECIFIED
3. RESISTORS ARE 1/16W. RATING. 1608 TYPE. J CLASS

IC7AB
PST529C

IC7EE
SC14SU69F

IC7EF
LM2903PS

IC7EG
MC74HC4051F

IC7EJ
LM2903PS

IC7EH
LM2904M/
LM2904PS

Q7EC
IMX1
/XN4501

Q7EE
IMX1
/XN4501

Q7EB

Q7ED

Q7EH

Q7EJ

Q7EK

TL7EC

TL7ED

TL7EA

TL7EB

TL7EF

TL7EE

YCM
BL
WBR
WBB
RYM
BYG
RYG
HCK
CINE
DRV(-)
YAFL
R-Y
B-Y
IDX
WBLK
UBLK

TO PC

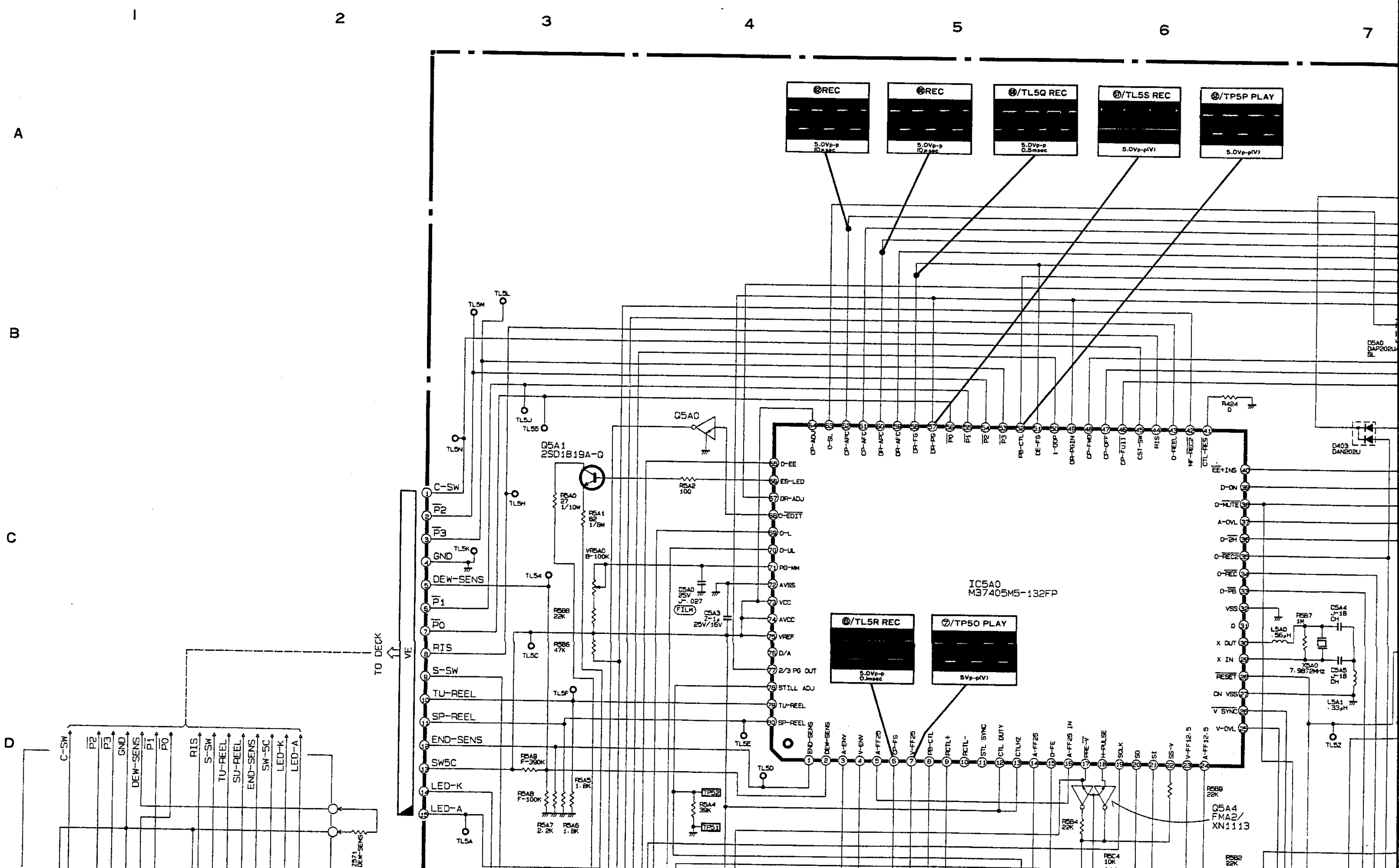
FADE
1.9V
VD
HD
CINE
C17M
CP
VD
C.SUP
C.BLK

TO EC

ED

SPECIFIED

HS-C35A
HS-C35B
HS-C35E(2/6)



IC5A0
M37405M5-132FP
Q5A1
2SD1819A-Q
Q5A0
Q5A4
FMA2/
XN1113
TO DECK
VE
C-SW
P2
P3
GND
DEW-SENS
P1
P0
RIS
S-SW
TU-REEL
SP-REEL
END-SENS
SW5C
LED-K
LED-A
SU-REEL
SW-5C
REC
TL5Q REC
TL5S REC
TP5P PLAY
TL5R REC
TP50 PLAY
D5A0
DAP202U
D403
DAN202U
X5A0
7.9872MHz

⚠PCB-VTR(CONTROL)

CP-APC
CP-AFC
DR-APC
DR-AFC
DR-FG
PB-CTL
DR-ADJ
DR-PG
CP-FWD
CP-OFF
CP-FUJI

TL5T TL5U TL5W TL5V TL5S TL5Q TL5R TL5Z TL5P TL5O TL5X TL5Y TL51

R401 68K
R402 150K
R403 330K
R404 150K
R405 8.2K
C401 6.3V 22μ
C402 6.3V 22μ
C403 .015
C404 1000
C405 1000

R406 33K
R407 68K
R408 330K
R409 0
R410 4.7K
C407 6.3V 47μ
C408 6.3V 47μ
C409 .047 25V
C410 .1 25V
C411

D540 DAP202U/MA142WA SL
D403 DAN202U

Q5A3 R5C3 3.9K
R5C2 47K
IC5A1 S8054HNM-T1
C5A4 DF-18
C5A5 DF-18
L5A1 33μH

R439 100K
R456 47K
R457 47K
Q409
Q408 IMD2

R411 180K
R449 100K
R448 27K
C430 .01 25V
R451 1K
R413 56K
C406 .056 25V
R460 47K
R445 F-47K
R446 F-47K

IC401 M5224FP
R416 220K
R417 10K
R418 F-120K
R415 F-15K
R450 F-12K
R419 F-13K
R444 F-47K
R443 F-10K
C425 16V 10μ

FL401 HAF2136
IC403 UPC358G

R455 100K
Q407 2SA1576-S
C412 10V 10μ
R452 220
CTL-1
CTL-2
VC
TO DECK
T571
CTL

C428 .047 25V
R420 1K
C413 270
R427 560K
R425 180K
R422 5.6K
R452 82K
R426 27K
Q402
Q410
Q411
C431 .1 25V
IC402 M5224FP

R434 1M
Q403
R431 5.6K
R432 100K
C418 .1 25V
R430 10K
C417 .33 μF
R429 180K
R428 10K
C416 .1 25V
R435 10K

R400 22K
R405 47K

C4C2 50V 0.2μ
R4C5 180
C4C4 .1
C4C1 820 5L

GD
VERR-D
VD
CP-ERR
VCP
GCP
TO OPERATION

IC5A0
M37405M5-132FP

Ø/TP50 PLAY
5Vp-p(V)

Ø/TL5R REC
5.0Vp-p
0.1msec

IC4A0
TA7291F(EL

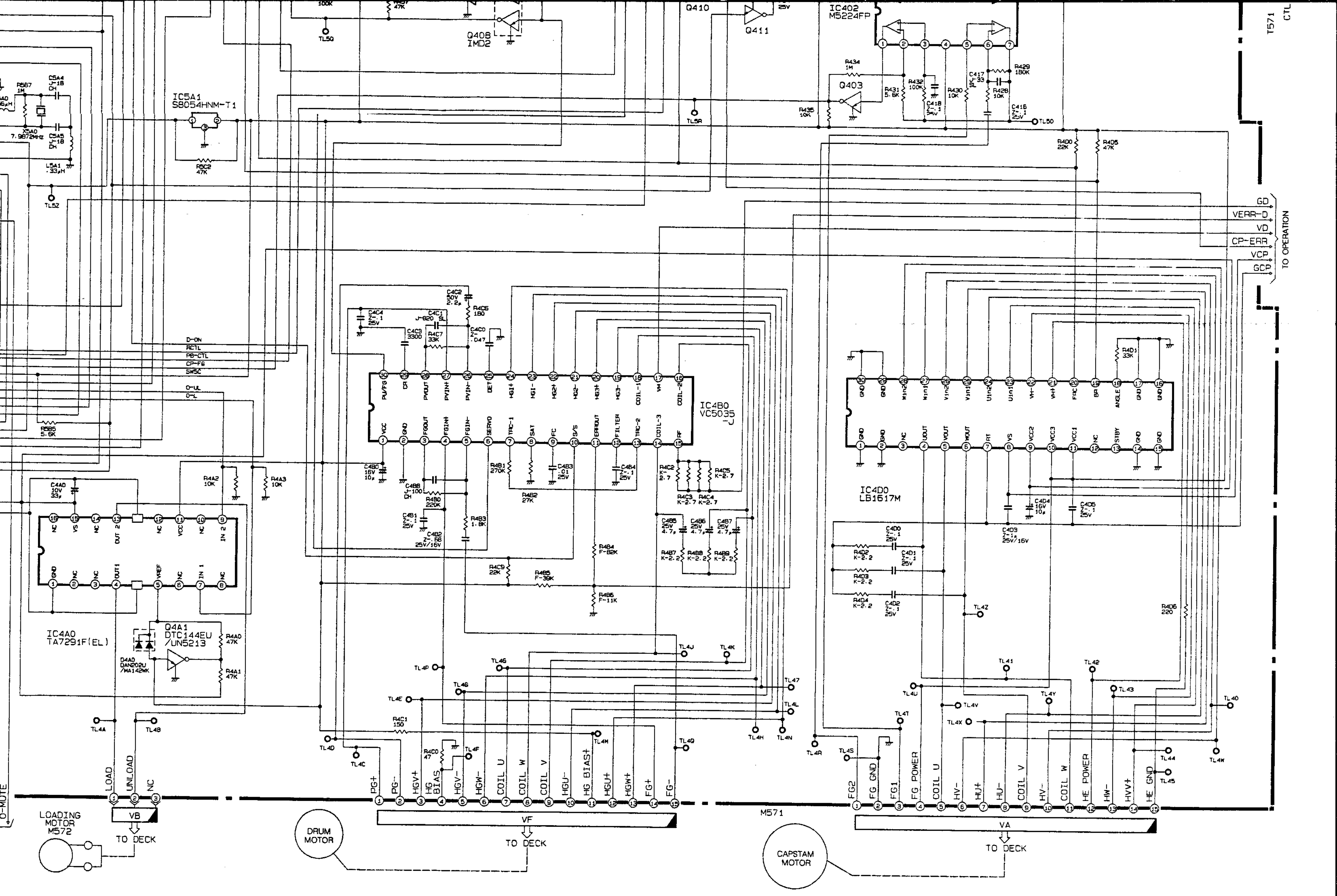
LOADING
MOTOR
M572

Q5A4
FMA2/
XN1113

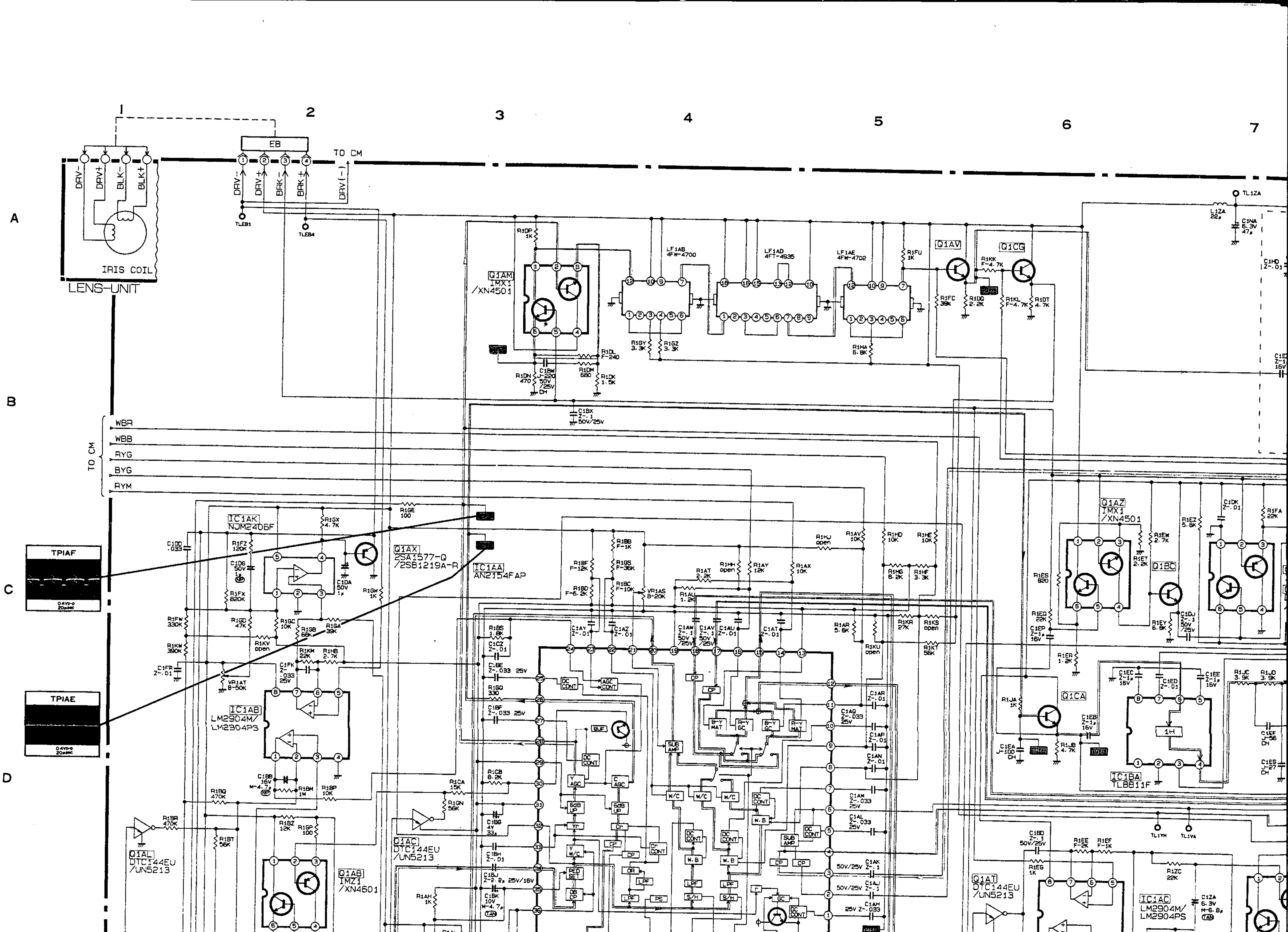
TO HA
TO I/O
TO AUDIO
TO SIGNAL
TO OPE
TO DECK

DTA144EU/ UN5113
DTC144EU/ UN5213

C
D
E
F
G



IC5A1
S8054HNM-T1
X5A0
7.9872MHz
L5A1
IC402
M5224FP
Q403
Q408
IMD2
Q410
Q411
T571
CTL
GD
VERR-D
VD
CP-ERR
VCP
GCP
TO OPERATION
D-ON
RCTL
PB-CTL
CP-FG
SWSC
D-UL
D-L
IC4B0
VC5035
-J
IC4D0
LB1617M
IC4A0
TA7291F(EL)
Q4A1
DTC144EU
/UN5213
D4A0
DAN202U
/MA142WK
LOAD
UNLOAD
NC
VB
TO DECK
LOADING
MOTOR
M572
DRUM
MOTOR
PG+
PG-
HGV+
HG BIAS
HGV-
HGW-
COIL U
COIL W
COIL V
HGU-
HG BIAS+
HGU+
HGW+
FG+
FG-
VF
TO DECK
M571
CAPSTAM
MOTOR
FG2
FG GND
FG1
FG POWER
COIL U
HV-
HU+
HU-
COIL V
HV-
COIL W
HE POWER
HW-
HVV+
HE GND
VA
TO DECK

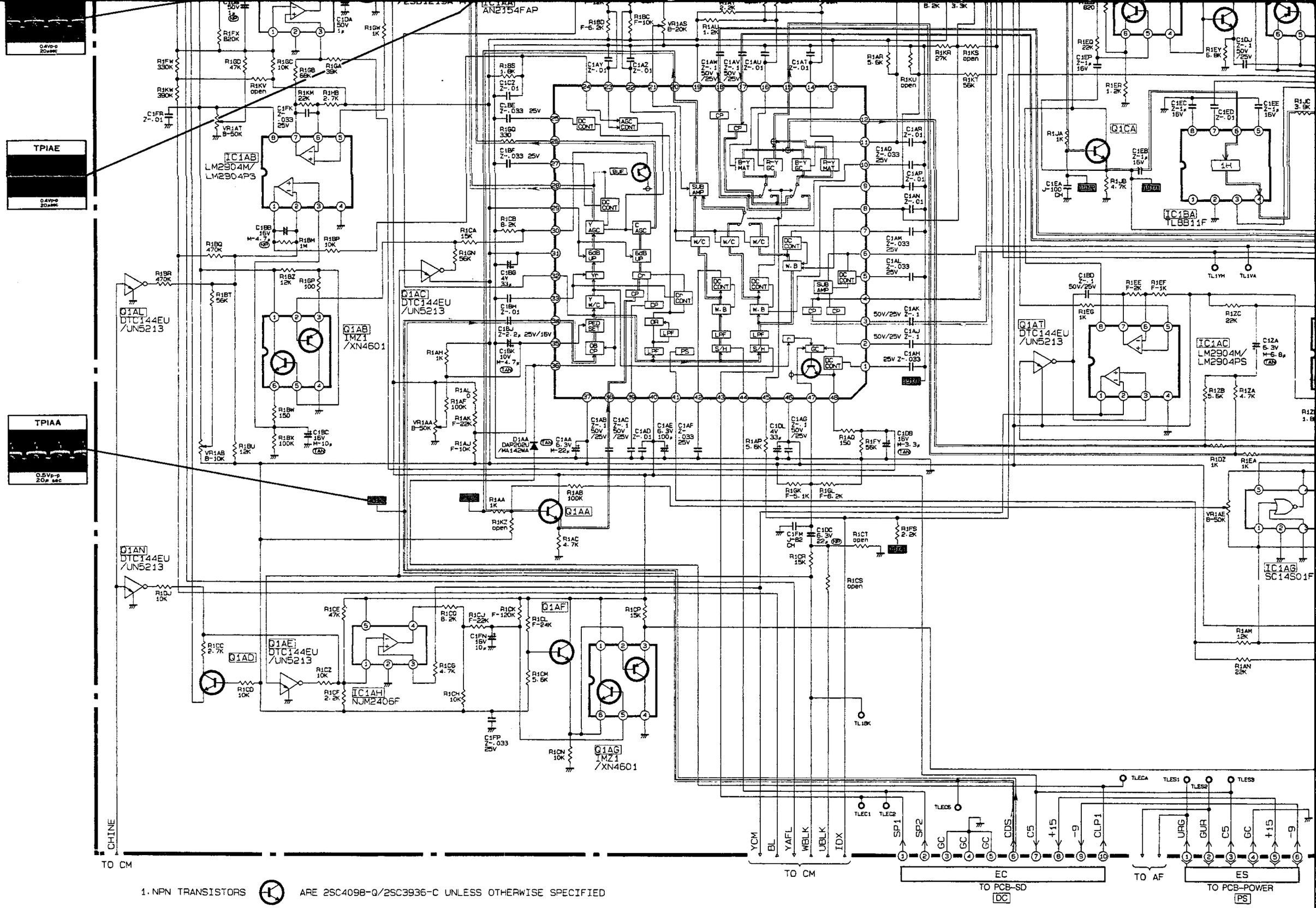


LENS-UNIT
IRIS COIL
DRV-
DRV+
BLK-
BLK+
EB
BRK-
BRK+
DRV(-)
TO CM
TLEB1
TLEB4
WBR
WBB
RYG
BYG
RYM
TPIAF
TPIAE
Q1AM
IMX1
/XN4501
LF1AB
4FW-4700
LF1AD
4FT-4935
LF1AE
4FW-4702
Q1AV
Q1CG
TL1ZA
IC1AK
NJM2406F
Q1AX
2SA1577-Q
/2SB1219A-R
IC1AA
AN2154FAP
IC1AB
LM2904M/
LM2904PS
Q1AL
DTC144EU
/UN5213
Q1AC
DTC144EU
/UN5213
Q1AB
IMZ1
/XN4601
Q1AZ
IMX1
/XN4501
Q1BC
Q1CA
IC1BA
TLB811F
Q1AT
DTC144EU
/UN5213
IC1AC
LM2904M/
LM2904PS
TL1VH
TL1VA

6 7 8 9 10 11 12

⚠PCB-CAMERA(PC) PROCESS

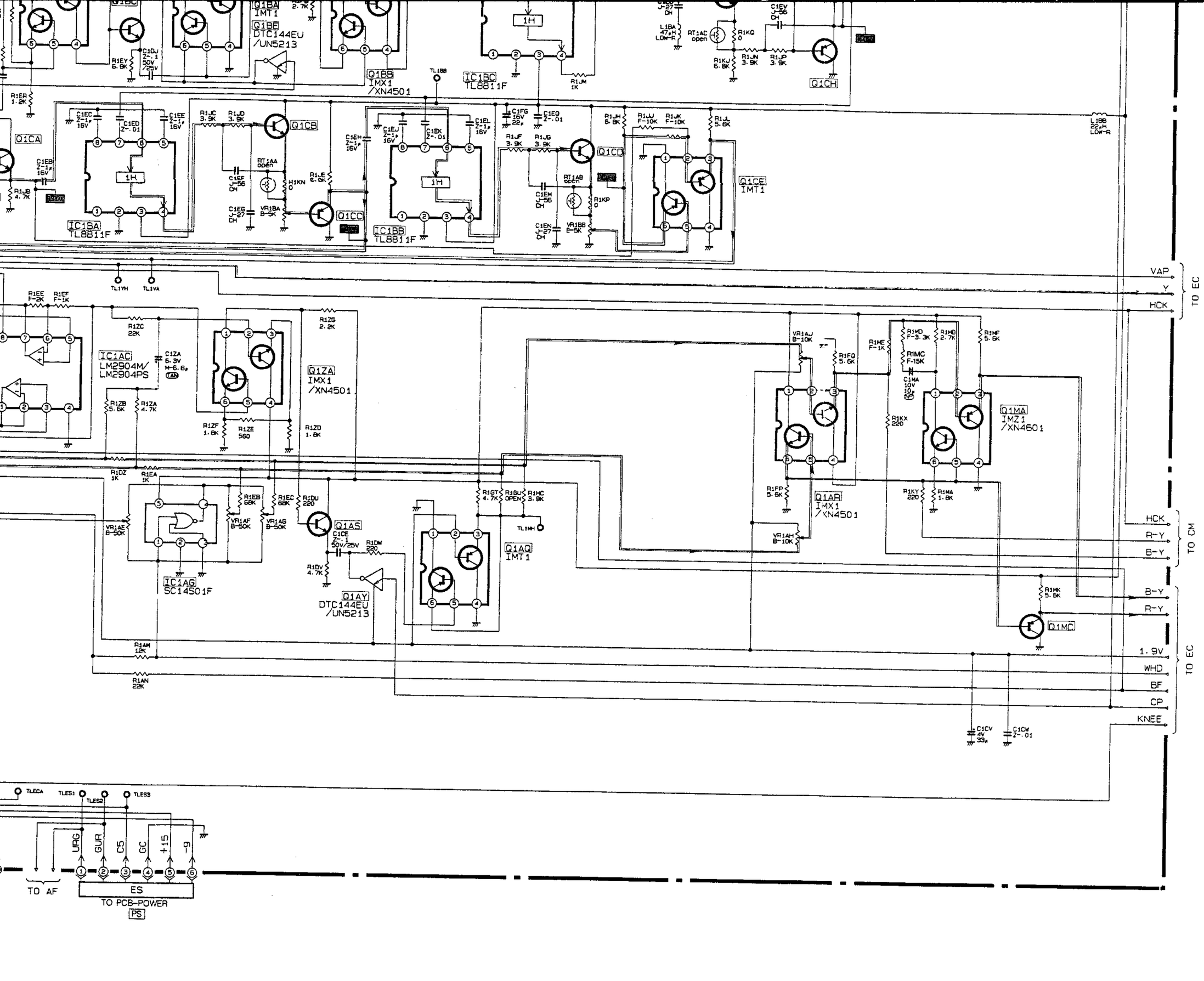
TL1ZA
L1ZA 22μ
C1NA 6.3V 47μ
TL1BC
L1BC 22μH LOW-R
C1HC Z-.1 50V/25V
R1MH 1K
R1MG 82K
C1FB 6.3V 47μ
C1FC Z-.01
C1FA Z-.1 50V/25V
C1HD Z-.01
C1FH Z-1μ 16V
1H
C1EZ Z-1μ 16V
C1MB Z-1000
R1JW 1M
IC1BD CXL5505M
Q1MB
C1HA Z-2.2μ 25V/16V
C1HB Z-2.2μ 25V/16V
R1JZ 2.2K
R1KA 22K
R1JS F-1.2K
R1JV 3.3K
Q1CJ IMX1 /XN4501
R1JT F-1.2K
C1EY J-22 CH
R1JU 100
C1NC 6.3V M-6.8μ TAN
Q1CN IMX1 /XN4501
R1KE 1K
R1KG 1K
LF1BA 6MHz
R1KH 3.3K
Q1CQ
R1KJ 8.2K
R1KD 390
R1ML 100
VR1BC B-1K
R1KF 560
R1JX 3.9K
R1JY 3.9K
Q1CM
C1FE J-56 CH
C1FF J-27 CH
VR1BD B-3K
TPIAP
0.4Vp-p 20μ sec
C5V
SC1H
TO EC
VAP
Y
HCK
Q1AZ IMX1 /XN4501
R1EZ 5.6K
R1EW 2.7K
R1ET 2.2K
Q1BC
R1EY 6.8K
C1DJ Z-.1 50V /25V
C1DK Z-.01
R1FA 22K
Q1BD DTC144EU /UN5213
Q1BA IMT1
Q1BE DTC144EU /UN5213
R1FB 2.7K
C1DL 4V 33μ
Q1BB IMX1 /XN4501
TL1FH
TL1BB
IC1BC TL8811F
C1ER Z-.1 16V
C1ES Z-.01
C1ET Z-1μ 16V
C1FL Z-1μ 16V
1H
R1JM 1K
C1ME Z-.01
Q1DA
C1EU J-27 CH
L1BA 47μH LOW-R
RT1AC open
R1KQ 0
R1KJ 6.8K
R1JN 3.9K
R1JP 3.9K
C1EW J-27 CH
C1EV J-56 CH
R1JO 6.8K
Q1CH
R1ER 1.2K
Q1CA
C1EB Z-1μ 16V
R1JB 4.7K
IC1BA TL8811F
C1EC Z-1μ 16V
C1ED Z-.01
C1EE Z-1μ 15V
R1JC 3.9K
R1JD 3.9K
Q1CB
C1EF J-56 CH
RT1AA open
R1KN 0
C1EG J-27 CH
VR1BA B-5K
R1JE 6.8K
Q1CC
C1EH Z-1μ 16V
C1EJ Z-1μ 16V
C1EK Z-.01
C1EL Z-1μ 16V
IC1BB TL8811F
C1FG 16V 22μ
C1EQ Z-.01
R1JF 3.9K
R1JG 3.9K
Q1CD
C1EM J-56 CH
RT1AB open
R1KP 0
C1EN J-27 CH
VR1BB B-5K
R1JH 6.8K
R1JW F-10K
R1JK F-10K
R1JL 5.6K
Q1CE IMT1
L1BB 22μH LOW-R
TL1YH
TL1VA
R1EE F-2K
R1EF F-1K
R1ZC 22K
IC1AC LM2904M/ LM2904PS
C1ZA 6.3V M-6.8μ TAN
R1ZB 2.2K
R1ZA 2.2K
Q1ZA IMX1 /XN4501
VR1AJ B-10K
R1FD 5.6K
R1ME F-1K
R1MD F-3.3K
R1MC F-15K
R1MB 2.7K
R1MF 5.6K
C1MA 10V



1. NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C UNLESS OTHERWISE SPECIFIED

2. PNP TRANSISTORS ARE 2SA1576-R/2SB1218A-R UNLESS OTHERWISE SPECIFIED

3. ARE TYPE 3216


Q1BA IMT1
Q1BB DTC144EU /UN5213
Q1BB IMX1 /XN4501
IC1BC TL8811F
1H
Q1CH
Q1CA
IC1BA TL8811F
Q1CB
Q1CC
IC1BB TL8811F
Q1CD
Q1CE IMT1
L1BB 22μH LOW-R
TL1YH
TL1VA
VAP
Y
HCK
TO EC
IC1AC LM2904M/ LM2904PS
Q1ZA IMX1 /XN4501
Q1MA IMZ1 /XN4601
Q1AR IMX1 /XN4501
IC1AG SC14501F
Q1AS
Q1AY DTC144EU /UN5213
Q1AQ IMT1
Q1MC
HCK
R-Y
B-Y
TO CM
B-Y
R-Y
1.9V
WHD
BF
CP
KNEE
TO EC
TLECA
TLES1
TLES2
TLES3
URG
GUR
C5
GC
+15
-9
TO AF
ES
TO PCB-POWER
PS

1 2 3 4 5 6 7

A

B

C

D

TP29 S-VHS REC

0.4Vp-p(H)

TP25 S-VHS PLAY

1.2Vp-p(H)

IC18P

NL PROCESS

IC2J1
VC2076MP

Q2J2
FMG2
/XN1213

Q2J1

IC2P1
CXL5505M

IC14P
CCD 905Dit

AUTO BIAS
CLOCK DRIVER
TIMING
PLL
CLAMP
OUTPUT
BIAS-A
BIAS-B

Q2P1

Q2B3

Q2A2

D2A1

Q2A1

Q2A3
FMG2
/XN1213

D2A2

Q2A4

Q2A5

Q2A6

Q2B0

0-2H

TL21

TL22

TL23

TL26

TP2MREC

0.7Vp-p(H)

TP2E REC

0.8Vp-p(H)

LPF2A2
RXV-72PN

7 8 9 10 11 12 13

TO I/O

PB-Y REC-Y PB-C C-IN FSC45 S-DETAIL FSC SC-VTR HD MENU+BB

⚠PCB-VTR[SIGNAL]

TL67 BGP 1
HD 2
TL68 MENU+BB 3
FSC45 4
TL60 PB-C 5
SW5S 6
TL62 TL61 GND 7
TL62 EDIT 8
TL63 PB-C IN 9
TL64 PB5 10
TL6Y SC-VTR 11
2H COMB OUT 12
TL65 FSC 13
TL6X TL6W C-FSC 14
2H COMB IN 15
TL66

V R TO PCB-JACK JA

C2P4 Z-.01
C2P1 Y-.1 25V
IC2P1 CXL5505M
TIMING
R2P6 390
R2P7 2.2K
C2P7 J-33 CH
VR2P1 B-5K
Q2P2
TL24
L2P2 18μH
L2P3 39μH
L2P4 47μH
R2P9 0
R2P8 1K
C2P8 J-15 CH
C2P0 J-18 CH
C2P3 J-56 CH
R200 3.9K
C204 J-68 CH

Q6A5
R6E3 22K
R6E2 68K
R6E7 6.8K
Q6A4
Q6A3
R6D9 3.9K
R6D8 820
C6C8 10V M-2.2μ TAN
L6A5 100μH
C6D7 Z-.01
C6D6 6.3V 100μ
R6C3 56K
C6D5 J-100 CH
C6D4 Z-.125V
C6E7 Z-.01
C6D0 25V .01
C6C7 10V M-2.2μ TAN
C6C9 25V .01
C6C6 J-470 CH
R6B9 15K
VR6A2 B-100K
R6E4 2.7K
C6EB J-270 CH 25V
Q6A7
IC6A1 M52056FP
C6C5 Z-.01
R6E6 22K
R6B8 3.9K
C6C4 16V M-10μ TAN
C6C3 .022
C6C2 35V M-.15μ TAN
C6C1 J-470 SL
VR6A1 B-50K
R6B7 39K
R6B6 47K
R6B5 47K
C6D8 Z-.01
R6C5 1.8K
R6C4 1K
R6C6 47K
R6C7 47K
C6D9 Z-.01
C6E2 Z-.01
C6E0 Z-.01
C6A1 Z-.01
C6E3 Y-.1 25V
R6A3 1K
R6E5 10K
C6C0 Z-.01
C6B7 Z-.01
R6B4 820
R6D7 180

TP6B PLAY
1.0Vp-p(H)

TP2M REC
0.7Vp-p(H)

TP2E REC
0.8Vp-p(H)

VR2A5 B-50K
VR2A1 B-20K
VR2A3 B-20K
VR2A4 B-10K
C2B2 J-1000 CH
TL25
L2A0 100μH
C2F9
R2A4
C2B1 Z-.01
C2B0 6.3V 22μ
LPF2A2 RXV-72PN
2A1

⑰PLAY
0.2Vp-p(H)

⑰REC
0.14Vp-p(H)

TP25 S-VHS PLAY

L2Vp-p(H)

C

D

E

43PLAY

2.2Vp-p(H)

NOTE)PARTS WITHOUT INDICATION IN SCHEMATIC DIAGRAM.

• PNP TRANSISTORS ARE 2SA1576-Q/2SB1218A-Q
• NPN TRANSISTORS ARE 2SC4098-Q/2SC3936-C
• PNP DIGITAL TRANSISTORS ARE DTA144EU/UN5113
• NPN DIGITAL TRANSISTORS ARE DTC144EU/UN5213

F

DAP202U
MA142WA

DAN202U
MA142WK

G

Q2A1 Q2A2 Q2A3 FMG2 /XN1213 Q2A4 Q2A5 Q2A6 Q2B0 Q2B1 Q2B2 Q2B3 Q2B4 Q2E1 Q2G1 D2A1 D2A2 D2A4 D2E1 D2G1 IC2A1 AN2265FAP TL20 TL21 TL23 TP2M TP2E LPF2A2 RXV-72PN LPF2A1 ELB-4C521N

14REC

0.3Vp-p(H)

14PLAY

0.3Vp-p(H)

GND SW5S 5-CONT 5-CONT EDIT

TO OPERATION

PRE-V 0-2H V-SYNC 0-EE SS-VSYNC V-FF25 2H

TO CONTROL

TP6B PLAY

1.0Vp-p(H)

TL65

TP2MREC

0.7Vp-p(H)

TP2E REC

0.8Vp-p(H)

⑰PLAY

0.2Vp-p(H)

⑰REC

0.14Vp-p(H)

IC6A1
M52056FP

IC6A2
NJM-2234M

LPF2A2
RXV-7ZFN

LPF2A1
ELB-4C521N

LPF6A2
PYV-219N

LPF6A1
2565-005

BPF6A2
H3558DK-4879

BPF6A1
H3558SK-2042MYD

Q6A1
FMG2/XN1213

TP6A PLAY

0.4Vp-p(H)

TP6A REC

1.0Vp-p(H)

⑭REC

0.5Vp-p(H)

TO CONTROL

PRE-V
O-2H
V-SYNC
O-EE
SS-VSYNC
V-FF25
2H

TO HA

2H
GND
SW5S
S-CONT
DOP
REC-FM
EQ-OUT
S-CONT
C-SYNC
PB5
REC5
PB-FM
REC-C

HS-C35A
HS-C35B
HS-C35E(4/6)

SCHEMATIC DIAGRAM

NOTE 1:

- DC voltages were measured from points indicated to the circuit ground with a Digital voltmeter.
- 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

Auto Focus AF (LENS CAP ON)

IC5AA

PIN No.	
1	0V
2	0V
3	0V
4	5.0V
5	0V
6	0.2V
7	2.3V
8	0.7V
9	0.6V
10	5.0V
11	0V
12	0V
13	0V
14	1.5V
15	0V
16	0V

IC5AB

PIN No.	
1	4.9V
2	4.9V
3	0V
4	0~6V
5	4.9V
6	0V
7	2.5V
8	0.5V
9	0.1V
10	0V
11	0V
12	4.9V
13	0V
14	0.5~2V
15	2.5V
16	4.9V
17	0V
18	0V
19	0V
20	0V
21	0V
22	4.9V
23	0V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	0.2V
31	0V
32	4.9V
33	1.9V
34	0V
35	1.9V
36	~
37	~
38	1.9V
39	0V
40	1.9V
41	0V
42	4.9V
43	4.9V
44	0V

IC5AC

PIN No.	
1	0V
2	2.4V
3	0V
4	2.5V
5	4.9V

IC5AD

PIN No.	
1	0.5~1V
2	0.5~1V
3	0V
4	3.1V
5	0V
6	4.9V
7	0V
8	0V
9	4.9V
10	0V
11	0.5~2V
12	4.5~5V
13	4.9V
14	0V
15	4.9V
16	4.9V
17	0V
18	0V
19	4.9V
20	2.1V
21	2.1V
22	0V
23	0V
24	0V
25	0V
26	0V
27	~
28	0V
29	~
30	0V
31	0.5~1V
32	4.9V
33	4.9V
34	4.9V
35	4.9V
36	4.9V
37	0V
38	0V
39	0V
40	0V
41	0V
42	4.9V
43	4.9V
44	4.9V
45	0V
46	0V
47	0V
48	4.9V
49	4.9V
50	4.9V
51	0V
52	0V
53	4.9V
54	4.8V
55	0V
56	0V

IC5AE

PIN No.	
1	0V
2	0V
3	0V
4	4.8V
5	0V
6	5.0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	4.7V
14	0V
15	4.8V
16	0V
17	0V
18	0V

IC5AF

PIN No.	
1	0V
2	0V
3	0V
4	6.1V
5	1.0V
6	0V
7	0V
8	0V

IC5AH

PIN No.	
1	0V
2	6.1V
3	5.0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q5AA	1.9V	1.3V	0V
Q5AB	1.9V	1.3V	0V
Q5AD	0.6V	1.3V	4.9V
Q5AE	1.3V	0.7V	0V
Q5AG	0V	4.9V	0V
Q5AH	4.9V	4.9V	−1.5~2V
Q5AT	1.4V	2.1V	4.9V
Q5FA	0.V	0V	4.7V
Q5FC	6.1V	5.5V	4.8V
Q5FD	0.V	0V	4.7V
Q5FF	6.1V	5.5V	4.8V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q5AC	1.4V	1.4V	0.7V	2.1V	0.7V	0.1V
Q5AJ	0V	0V	0V	4.2V	0V	0V
Q5AK	4.9V	1.7V	1V	3V	3V	2.4V
Q5AB	6.1V	4.7V	4.1V	5.5V	4.8V	4.1V
Q5FE	6.1V	4.7V	4.1V	5.5V	4.8V	4.1V

SENSOR DRIVE SD (LENS CAP ON)

ICOSA

PIN No.		PIN No.	
1	0.4V	25	0V
2	1.0V	26	4.9V
3	1.0V	27	0V
4	4.5V	28	0V
5	0.1V	29	0V
6	0V	30	4.9V
7	4.9V	31	0V
8	4.5V	32	2.5V
9	0.1V	33	2.4V
10	4.8V	34	4.8V
11	4.8V	35	4.5V
12	3.8V	36	2.1V
13	4.9V	37	0V
14	4.8V	38	3.7V
15	0V	39	2.3V
16	2.4V	40	0.1V
17	2.0V	41	0.1V
18	4.9V	42	0.1V
19	4.9V	43	4.9V
20	4.9V	44	0.9V
21	4.3V	45	0.9V
22	4.3V	46	4.8V
23	0.1V	47	0V
24	0.1V	48	0.4V

ICOSC

PIN No.	
1	0V
2	4.9V
3	2.4V
4	2.3V
5	2.4V
6	2.3V
7	0V
8	2.7V
9	2.0V
10	2.7V
11	2.0V
12	0V
13	4.9V
14	4.9V

ICOSF

PIN No.	
1	−8.3V
2	0V
3	0V
4	12.1V
5	0V
6	−0.3V
7	−8.8V
8	0V
9	14.8V
10	10.7V
11	1.9V
12	0V
13	1.7V
14	0V
15	0V
16	14.8V
17	4.5V
18	0.5V
19	2.7V
20	2.3V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q0SA	2.1V	2.8V	4.9V
Q0SB	12.4V	13V	22.2V
Q0SD	10V	10.7V	14.8V
Q0SG	4.9V	4.5V	1.6V
Q0SH	0V	0V	1.6V
Q0SL	0V	−0.2V	−3.2V
Q0SM	−8.8V	−8.4V	−3.3V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q0SC	22.2V	4.8V	4.2V	13V	4.8V	4.2V

CAMERA MICRO COMPUTER
C M

(LENS CAP ON)

IC7AA

PIN No.		PIN No.	
1	0V	64	0V
2	0V	65	0V
3	0.4V	66	0V
4	0V	67	0V
6	0V	68	4.9V
7	0.5~1.5V	69	4.9V
8	0V	70	0V
9	0V	71	4.9V
10	4.9V	72	4.9V
11	0V	73	0V
12	4.9V	74	0V
13	0V	75	4.9V
14	0V	76	~
15	0V	77	4.9V
16	0V	78	0V
17	0V	79	0V
18	0V	80	0V
19	0~0.3V		
20	4.9V		
21	3.1V		
22	4.8V		
23	1.1V		
24	0V		
25	0V		
26	4.9V		
27	0V		
28	2.5V		
29	0.8V		
30	0.1V		
31	2.3V		
32	0V		
33	0V		
34	4.9V		
35	1~2V		
36	0V		
37	0.1V		
38	0V		
39	4.9V		
40	4.9V		
41	0V		
42	0V		
43	0V		
44	0V		
45	0V		
46	4.9V		
47	0V		
48	0V		
49	0V		
50	0V		
51	0V		
52	0V		
53	4.9V		
54	0V		
55	0.1V		
56	0.2V		
57	4.5~5V		
58	0V		
59	0V		
60	0V		
61	0V		
62	0V		
63	0V		

IC7AB

PIN No.	
1	4.9V
2	0V
3	4.9V

IC7AD

PIN No.	
1	2.2V
2	0V
3	2.0V
4	0V
5	4.9V

IC7AG

PIN No.	
1	4.9V
2	2.4V
3	0.5V
4	4.9V
5	2.3V
6	2.3V
7	0V
8	4.9V
9	0V
10	4.9V
11	4.9V
12	4.9V
13	0V
14	4.9V

IC7AH

PIN No.	
1	3.6V
2	3.6V
3	3.6V
4	4.9V
5	0V
6	4.9V
7	2.5V
8	0V
9	4.9V
10	0.1V
11	0V
12	0.5V
13	0V
14	0V
15	3~4V
16	1.8V
17	0V
18	4.9V
19	2.5V
20	0V
21	0V
22	1~2V
23	1~2V
24	0V
25	0V
26	0V
27	5.0V
28	1.9V
29	0V
30	1.9V
31	1.9V
32	0V
33	1.9V
34	0V
35	0.1V
36	0V
37	4.8V
38	0V
39	0V
40	0V
41	0V
42	4.9V
43	5.0V
44	3.6V

IC7EB

PIN No.	
1	4.9V
2	4.9V
3	0V
4	0V
5	0V
6	0.1V
7	0V
8	3.1V

IC7EC

PIN No.	
1	1.5V
2	1.5V
3	1.5V
4	0V
5	1.5V
6	1.5V
7	1.5V
8	4.9V

IC7ED

PIN No.	
1	2.2V
2	2.2V
3	2.2V
4	4.9V
5	1.8V
6	1.8V
7	1.8V
8	0V
9	0.1V
10	0.1V
11	0V
12	1.5V
13	1.5V
14	1.5V

IC7EE

PIN No.	
1	0V
2	3~3.6V
3	0V
4	1~2V
5	4.9V

IC7EF

PIN No.	
1	3~3.6V
2	2.1V
3	2.2V
4	0V
5	1.5V
6	1.9V
7	3~3.5V
8	5.0V

IC7EG

PIN No.	
1	0.1V
2	0.1V
3	0.1V
4	0V
5	1.5V
6	4.5V
7	0.1V
8	0V
9	0V
10	0.1V
11	0~0.4V
12	1.9V
13	1.5V
14	1.5V
15	2.7V
16	4.9V

IC7EH

PIN No.	
1	1.9V
2	1.9V
3	1.9V
4	0V
5	1.9V
6	1.9V
7	1.9V
8	4.9V

IC7EJ

PIN No.	
1	4.9V
2	1.8V
3	1.9V
4	0V
5	1.9V
6	1.8V
7	4.9V
8	4.9V

IC7KA

PIN No.	
1	0V
2	2.4V
3	0V
4	2.5V
5	4.9V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q7AB	0V	0V	4.9V
Q7AE	0V	0V	4.9V
Q7EB	3.1V	3.7V	4.9V
Q7ED	3.1V	3.7V	4.9V
Q7EH	0V	0.5~1.5V	1.5V
Q7EJ	1.9V	0.1V	1.9V
Q7EK	1.9V	0.2V	1.9V
Q7EL	1.9V	0.7V	2V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q7EC	3.7V	1.9V	1.3V	4.9V	1.8V	1.3V
Q7EE	3.7V	1.9V	1.3V	4.9V	1.9V	1.2V

PROSESS PC | (LENS CAP ON)

IC1AA

PIN No.		PIN No.	
1	3.2V	25	3.2V
2	2.0V	26	1.9V
3	2.0V	27	3.4V
4	2.0V	28	2.0V
5	3.2V	29	1.8V
6	1.9V	30	2.0V
7	3.2V	31	1.8V
8	1.6V	32	1.9V
9	2.1V	33	1.9V
10	3.2V	34	1.9V
11	1.7V	35	1.8V
12	2.5V	36	2.9V
13	1.8V	37	1.8V
14	1.8V	38	1.9V
15	2.2V	39	1.9V
16	1.9V	40	4.9V
17	1.8V	41	0.6V
18	1.8V	42	3.2V
19	0V	43	0.6V
20	2.5V	44	0.5V
21	1.9V	45	1.2V
22	2.5V	46	1.8V
23	2.9V	47	1.3V
24	1.7V	48	1.9V

IC1AB

PIN No.	
1	1.4V
2	2.1V
3	2.1V
4	0V
5	1.9V
6	1.9V
7	1.9V
8	4.9V

IC1AC

PIN No.	
1	2.2V
2	2.2V
3	2.2V
4	0V
5	2.0V
6	2.0V
7	2.2V
8	4.9V

IC1AG

PIN No.	
1	0.9V
2	0V
3	0V
4	4.1V
5	4.9V

IC1AH

PIN No.	
1	1.3V
2	0V
3	2.2V
4	2.1V
5	4.9V

IC1BA

PIN No.	
1	0.V
2	0V
3	4.9V
4	3.4V
5	1.5V
6	3.1V
7	2.5V
8	10.1V

IC1BB

PIN No.	
1	0.V
2	0V
3	4.9V
4	3.4V
5	1.5V
6	3.1V
7	2.4V
8	10.1V

IC1BC

PIN No.	
1	0.V
2	0V
3	4.9V
4	3.4V
5	1.5V
6	3.1V
7	2.5V
8	10.1V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
QIAA	1.8V	2.5V	4.9V
QIAC	1.9V	3~4V	1.9V
QIAD	1V	1.4V	1V
QIAE	0V	3~4V	0.3V
QIAL	0V	0V	2V
QIAN	0V	0V	1.4V
QIAS	2.6V	3.2V	4.9V
QIAT	1.9V	0.2V	2.2V
QIAV	3.5V	4.2V	4.9V
QIAX	0.7V	0V	0V
QIAY	1.9V	0.2V	1.8V
QIBD	1.9V	0.2V	1.8V
QIBE	0V	1.1V	1.2.V
QICB	2.7V	3.4V	4.9V
QICD	2.7V	3.4V	4.9V
QICG	2.7V	3.4V	4.9V
QICM	2.4V	3V	4.9V
QIMC	2.1V	1.5V	0V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
QIAB	4.9V	1.9V	2.6V	0V	2.6V	2.1V
QIAG	4.9V	1.9V	2.5V	0V	2.5V	1.9V
QIAM	4.1V	2V	1.4V	4.9V	1.9V	1.2V
QIAQ	0V	1.8V	2.4V	0V	1.8V	2.4V
QIAR	4.9V	2V	1.4V	4.9V	2V	1.5V
QIAZ	4.9V	1.8V	1.2V	3.1V	1.8V	1.2V
QIBA	0V	1.9V	2.4V	0V	1.9V	1.2V
QIBB	5V	2.4V	1.8V	4.9V	1.1V	1.8V
QICE	0V	1.7V	2.3V	0V	1.4V	2V
QIMA	3.6V	1.4V	2V	0V	1.5V	0.9V
QIZA	3.2V	1.8V	1.2V	4.9V	1.9V	1.3V

ENCODER EC (LENS CAP ON)

IC2AA

PIN No.		PIN No.	
1	2.6V	25	2.0V
2	2.4V	26	3.1V
3	4.9V	27	2.2V
4	0V	28	3.4V
5	2.4V	29	1.9V
6	2.7V	30	2.5V
7	1.7V	31	1.9V
8	1.7V	32	0.2V
9	2.4V	33	1.9V
10	2.4V	34	1.9V
11	2.4V	35	2.1V
12	0.1V	36	2.1V
13	3.0V	37	2.3V
14	2.4V	38	3.0V
15	2.4V	39	2.5V
16	2.8V	40	1.9V
17	4.9V	41	3.4V
18	0V	42	1.8V
19	0V	43	0.8V
20	2.3V	44	0V
21	1.9V	45	2.4V
22	0V	46	3.1V
23	0.7V	47	2.7V
24	1.9V	48	2.4V

IC2AB

PIN No.		PIN No.	
1	4.4V	16	0.7V
2	4.8V	17	0.2V
3	4.6V	18	0V
4	0.7~1.5V	19	2.4V
5	0.1V	20	4.9V
6	0V	21	2.4V
7	0V	22	1.8V
8	0V	23	0V
9	0V	24	2.3V
10	2.3V	25	2.3V
11	2.4V	26	1.5V
12	~	27	1.4V
13	2.5V	28	4.8V
14	4.9V	29	0V
15	0V	30	4.9V

IC2AD

PIN No.	
1	4.8V
2	0V
3	0V
4	0.1V
5	4.9V

IC2AE

PIN No.	
1	4.4V
2	0V
3	0V
4	0.5V
5	4.9V

IC2AF

PIN No.	
1	2.2V
2	0V
3	2.2V
4	2.0V
5	4.9V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q2AA	1.7V	1.1V	0V
Q2AB	2V	2.7V	4.9V
Q2AF	0.5V	1.1V	3.1V
Q2AG	1.5V	2.1V	4.9V
Q2CB	3.7V	3.2V	1.1V
Q2CC	1.5V	1.1V	0V
Q2CD	2.1V	2.3V	0V
Q2CE	2.1V	2.4V	0V
Q2CF	1.3V	1.8V	3.7V

TRANSISTOR

SYMBOL	1	2	3	4	5
Q2DA	3.1V	0.5V	0V	1.9V	0V

DC VOLTAGE TABLES

The voltages parenthesised are on SP recording mode.
While those without parenthesised on SP play back mode.

I/O

IC2S2

PIN No.		PIN No.	
1	2.0V	23	4.8V
2	1.9V	24	0V
3	2.0V	25	0V
4	2.0V	26	4.9V
5	2~2.5V	27	0V
6	1.5~2.5V	28	0V
7	1.4~2.4V	29	1.6~2.6V
8	0.3V	30	1.6~2.6V
9	3.7V	31	1.4~2.5V
10	4.3V	32	0V
11	0.1V(1.2V)	33	1.6~2.5V
12	0V	34	0.1V(0.5V)
13	0V	35	0.1V(0.5V)
14	4.9V	36	0.1V(0.5V)
15	4.9V	37	0.1V(0.5V)
16	4.9V	38	0V(0.5V)
17	0V	39	4.9V
18	1.6V(1.5~2V)	40	1.9V
19	2.5V	41	2.0V
20	2.5V	42	0.1V(0.4V)
21	0V	43	0.1V(0.5V)
22	4.9V	44	0V(0.5V)

IC2S4

PIN No.		PIN No.	
1	2.4V	19	3.8V
2	4.9V	20	4.3V
3	2.8V	21	1.0V
4	4.9V	22	4.0V(3.2V)
5	2.4V	23	0V
6	4.9V	24	0V
7	2.4V	25	1.7V
8	2.4V	26	4.4V(2.7V)
9	1.9V	27	2.5V
10	1.9V	28	4.9V
11	1.9V	29	2.5~3V(2.4V)
12	0V	30	0V
13	2.5V	31	2.3V
14	3.2V	32	4.8V
15	3.5V	33	3.0V(2.3V)
16	2.4V	34	0V
17	2.7V	35	4.9V
18	2.8V	36	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q2S0	0V	0.7V(0.5V)	0.1V(1.2V)
Q2S1	0V	0V(4.4V)	4.4V(0V)

SIGNAL

IC2A1

PIN No.		PIN No.	
1	0V	25	3.6V
2	3.1V	26	2.4V(0V)
3	2.1V	27	0V
4	2.0V	28	2.6V(0V)
5	2.6V	29	2.8V
6	2.7V	30	2.8V(0V)
7	2.1V	31	2.3V(0.1V)
8	2.1V	32	1.1V(0V)
9	2.1V	33	0V(2.8V)
10	2~2.5V	34	4.6V(0.2V)
11	2.7V	35	1.0V(0V)
12	1.9V	36	3.4V(0.2V)
13	1.3V	37	0V
14	1.9V	38	1.5V(4.4V)
15	2.4V	39	1.9V(0V)
16	2.0V	40	2.3V(0.1V)
17	4.6V	41	3.0V
18	4.6V(2V)	42	0V
19	4.6V(2V)	43	2.3V
20	4.6V(1.9V)	44	0V
21	4.6V(2V)	45	2.4V
22	3.2V	46	0.4V
23	1.3V	47	2.4V
24	4.6V	48	3.0V

IC2J1

PIN No.	
1	1.9V
2	4.8V(0V)
3	3.2V
4	3.3V
5	4.8V
6	2.1V
7	1.9V
8	4.9V
9	1.3V
10	2.7V
11	2.7V
12	2.7V
13	0V
14	2.7V
15	2.8V
16	1.9V
17	1.9V
18	1.9V

IC2P1

PIN No.	
1	1.9V
2	2.4V
3	0V
4	2.2V
5	0V
6	0V
7	0V
8	2.1V
9	4.9V
10	2.1V
11	2.1V
12	4.9V
13	0.8V
14	0V

IC6A1

PIN No.		PIN No.	
1	2.1V	25	1.2V
2	~	26	3.2V
3	4.8V	27	3.2V
4	2.9V	28	3.6V
5	2.6V	29	3.3V
6	2.7V	30	3.3V
7	3.7V	31	4.9V
8	4.8V	32	3.7V
9	2.9V	33	3.8V(3V)
10	3.2V	34	0.3V
11	2.2V	35	2.8V
12	3.0V	36	2.7V
13	2.9V	37	0V
14	2.4V	38	0V
15	3.0V	39	2.1V
16	2.9V	40	0.V
17	3.0V	41	4.1V(0V)
18	2.4V	42	2.4V
19	0V	43	2.4V
20	3.2V	44	0V
21	4.2V	45	3.0V
22	3.3V	46	3.1V
23	2.1V	47	2.8V
24	2.6V(3.5V)	48	3.3V

TRANSISTOR

SYMBOL	[illegible]	(B)	(C)
Q2A1	[illegible]	4.6V	0V
Q2A6	[illegible]	1.1V	0V
Q2B2	[illegible]	4.6V(0.2V)	0V
Q2E1	[illegible]	0V	4.5V
Q2G1	[illegible]	4.6V(0V)	0V(2.5V)
Q2G2	[illegible]	4.5V	0V
Q2J1	[illegible]	0.4V	0V
Q2P1	[illegible]	3.4V	2.6V
Q2P2	[illegible]	3.7V	4.9V
Q6A2	[illegible]	2.3V	4.8V
Q6A3	[illegible]	0V	0V
Q6A4	[illegible]	3V	0V
Q6A5	[illegible]	3.6V	4.9V
Q6A7	[illegible]	4.1V(0V)	0V
Q6A8	[illegible]	0V(4.9V)	4.1V(0V)
Q6A9	[illegible]	0V	4.5V

TRANSISTOR

SYMBOL	1	2	3	4	5
Q2J2	4.8V	4.8V(0V)	0V(4.9V)	0V	0V
Q6A1	0V	0V	4.5V	0V	4.9V

CONTROL

IC401

PIN No.	
1	1.6V
2	2.4V
3	2.4V
4	5.0V
5	2.5V
6	2.4V
7	2.5V
8	2.4V
9	2.4V
10	2.4V
11	0V
12	2.5V
13	2.5V
14	2.9V

IC402

PIN No.	
1	1.5~2V
2	2.5V
3	2.5V
4	5.0V
5	2.5V
6	2.5V
7	2.4V
8	2.4V(~)
9	2.5V(~)
10	2.5V
11	0V
12	2.4V(~)
13	2.4V
14	~

IC403

PIN No.	
1	2.5V
2	1.9V
3	2.5V
4	0V
5	~
6	2.5V
7	~
8	5.0V

IC4A0

PIN No.	
1	0V
2	0V
3	0V
4	0.2V
5	4.5V
6	0V
7	0V
8	0V
9	0V
10	0V
11	5.0V
12	0V
13	0.3V
14	0V
15	6.2V
16	0V

IC4B0

PIN No.	
1	5.0V
2	0V
3	2.4V
4	2.5V
5	2.5V
6	1.5V
7	1.0V
8	1.3V
9	1.2V
10	4.3V
11	2.5V
12	1.2V
13	1.9V
14	1.3V
15	0.1V
16	1.3V
17	4.0V
18	1.3V
19	2.2V
20	2.2V
21	0.9V
22	0.9V
23	3.6V
24	3.6V
25	4.3V
26	2.5V
27	2.5V
28	2.5V
29	0.3V
30	1~1.5V

IC5A0

PIN No.		PIN No.	
1	0V	41	0V
2	0V	42	4.9V(0V)
3	3.3V(0V)	43	~(0V)
4	3.2V(0V)	44	0V
5	~	45	0V
6	2~3V	46	1.2V
7	~	47	0V
8	~	48	4.4V
9	2.5V(~)	49	0~0.4V
10	0V(~)	50	4.6V(0V)
11	~	51	2~3V
12	4.9V	52	~
13	5.0V	53	4.9V
14	~	54	4.9V
15	0V(2.5V)	55	0V
16	~	56	0V
17	4.9V	57	0~0.5V
18	4.9V	58	2~3V
19	4.9V	59	2.5V
20	4.9V	60	2.2V
21		61	2.5V
22	0V	62	2~3V(2.4V)
23	~	63	0V
24	~	64	4.9V
25	0.2V	65	0V(4.9V)
26	4.5V	66	0~0.4V
27	0V	67	1.5V
28		68	0V
29	2.0V	69	0V
30	1.8V	70	0V
31	0V	71	0~0.6V
32	0V	72	0V
33	0.1V(4.9V)	73	5.0V
34	4.9V(0.1V)	74	5.0V
35	4.2V(0V)	75	4.9V
36	0V	76	0V
37	0.2V	77	0~0.4V
38	4.6V	78	2.3V
39	4.3V	79	~
40	4.2V(0V)	80	~

IC5A1

PIN No.	
1	
2	5.0V
3	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q402	0V	~	~
Q403	0V	1.5~2V	2~3V
Q407	2.5V(~)	3.8V(~)	2.5V(~)
Q409	0V	4.9V	0V
Q411	0V	0V	0.4V~4V
Q4A1	0V	5V	0V
Q5A0	0V	0V	0.2V
Q5A1	0~0.4V	0~0.4V	6.1V
Q5A3	5V	4.6V	0V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q408	1~1.5V	1~1.5V	5V	4.9V	1~1.5V	0V

HEAD AMP HA

IC203

PIN No.		PIN No.	
1	2.7V(0V)	17	3.1V(0V)
2	2.4V(0V)	18	2.8V(0V)
3	4.6V(0.2V)	19	0V
4	3.4V(0V)	20	4.6V(0.2V)
5	1.7V(0V)	21	2.3V(0.1V)
6	3.4V(0V)	22	4.6V(0V)
7	0V	23	1.6V(0V)
8	1.4V(0V)	24	2.4V(0.1V)
9	2.8V(0V)	25	3.7V(0.2V)
10	1.9V(0V)	26	0.2V
11	0V	27	4.6V(0.2V)
12	2.6V(0V)	28	2.6V(0V)
13	2.0(0.1V)	29	2.0V(0V)
14	2.6V(0V)	30	3.4V(0V)
15	2.5V(0.1V)	31	2.3V(0V)
16	2~3V(0.1V)	32	2.4V(0.2V)

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q202	0V(1V)	0V	0V(4.9V)
Q203	0V(1V)	0V(1.6V)	0V(4.9V)
Q204	0V	4.8V	0V
Q251	4.9V	4.2V(4.9V)	4.8V(0.2V)
Q252	4.9V	4.9(4.2V)	0V(4.9V)
Q254	0V	0V	0V
Q256	4.6V(0.2V)	4.6V(0V)	0V
Q257	1.5V(0V)	2.2V(0V)	2V(0.2V)
Q261	0.6V(0V)	1.3V(0V)	4.3V(0.2V)
Q262	0V	0V	2.5V(0.2V)
Q266	0V	0V	0V
Q292	0V(4.3V)	0V(3.6V)	0V
Q293	0V	0V(2.5V)	0V
Q294	0V(4.3V)	0V(3.7V)	0V
Q2007	4.7V(0.2V)	4.6V(0V)	2V(0.1V)
Q2012	2~3V(0V)	2~3V(0.1V)	4.7V(0.2V)
Q2014	0V	4.6V	0V

AUDIO

IC300

PIN No.		PIN No.	
1	2.4V	17	0V
2	2.4V	18	3.1V
3	0V	19	2.4V
4	2.4V	20	2.4V
5	0V	21	2.4V
6	0V	22	0V
7	1.7V	23	0V
8	0V(0.5V)	24	1.8V
9	2.4V	25	0V
10	0V(4.9V)	26	1.8V
11	0V	27	4.9V
12	2.5V	28	1.8V
13	4.2V(0V)	29	4.9V
14	2.4V	30	1.8V
15	0V	31	2.4V
16	0V	32	2.4V

IC3A0

PIN No.		PIN No.		PIN No.		PIN No.	
1	2.3V	17	2.5V	33	0V	49	2.3V
2	3.2V	18	0V	34	4.9V	50	0.1V(1.8V)
3	2.5V	19	2.5V	35	2.5V	51	3.0V(4.2V)
4	2.5V	20	4.9V	36	2.5V	52	0V(4.9V)
5	2.5V	21	2.5V	37	2.5V	53	0V
6	0.5V	22	2.5V	38	2.5V	54	2.5V(3V)
7	1.8V	23	2.4V	39	2.5V	55	3.3V(0V)
8	0V	24	2.5V	40	2.5V	56	4.8V
9	2.5V	25	4.9V	41	0V	57	3.1V
10	2.5V	26	2.4V	42	1.8V	58	0V
11	2.5V	27	2.5V	43	0.5V	59	2.0V(3.9V)
12	2.5V	28	4.9V	44	2.5V	60	~
13	2.5V	29	0V	45	2.5V	61	0V
14	2.5V	30	2.5V	46	2.5V	62	4.7V
15	2.4V	31	0V	47	0V	63	3.0V(4.2V)
16	0.5V	32	2.5V	48	3.2V	64	0.1V(1.8V)

IC3A1

PIN No.	
1	2.9V
2	2.9V
3	2.9V
4	0V
5	2.9V
6	2.9V
7	2.9V
8	4.9V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q310	0V	0V	0V(4.2V)
Q311	5V	4.9V(4.2V)	0V(4.8V)
Q3A0	0V	0V(-0.2V)	0V
Q3A1	0V	0V	0V
Q3A2	0V	0V	0V
Q3A3	0V	0V	0V
Q3A4	0V	4.2V	0V

OPERATION

IC801

PIN No.	
1	4.9V
2	0V
3	6.1V

IC802

PIN No.	
1	
2	4.9V
3	0V

IC803

PIN No.	
1	
2	4.9V
3	0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q800	4.9V	4.3V	4.9V
Q802	0V	1.7V	0V
Q803	4.9V	4.9V	0V
Q804	0V	0.6V	0V
Q806	0V	4.9V	0V

PCB-POWER

IC901

PIN No.	
1	5.4V
2	0V
3	1.2V

IC902

PIN No.	
1	2.4V
2	1.6V
3	1.2V
4	1.2V
5	1.2V
6	1.6V
7	2.5V
8	3.4V
9	0V
10	5.8V
11	1.7V
12	1.3V
13	1.2V
14	0V
15	4.9V
16	2.5V
17	1.4V
18	1.2V
19	4.9V
20	6V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q901	6.1V	5.5V	5V
Q902	5.5V	4.8V	5.4V
Q903	0V	4.9V	0V
Q906	6.1V	6V	0V

TRANSISTOR

SYMBOL	1	2	3	4
Q904	5.7V	6.1V	0V	2.4V
Q905	5.5V	6.1V	0V	4V

PCB-MIC AMP

IC350

PIN No.	
1	0V
2	1.1V
3	1.1V
4	1.1V
5	1.1V
6	1.1V
7	0V
8	5.0V
9	2.6V
10	2.6V
11	1.1V
12	1.1V
13	1.1V
14	1.1V
15	1.1V
16	0V

IC351

PIN No.	
1	4.9V
2	2.4V
3	2.4V
4	0V
5	2.4V
6	2.4V
7	4.9V
8	5.0V

TRANSISTOR

SYMBOL	(E)	(B)	(C)
Q350	0V	0V	2.4V

TRANSISTOR

SYMBOL	1	2	3	4	5	6
Q351	5V	4.9V	0V	5V	4.9V	0.4V