ORDER NO. VSD9509M264

Service Manual

General Information

Operating Instructions

Disassembly Procedures

Maintenance Chart

Electrical Adjustment

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Schematic Diagram & Circuit Board Diagrams

Exploded Views & Replacement Parts List

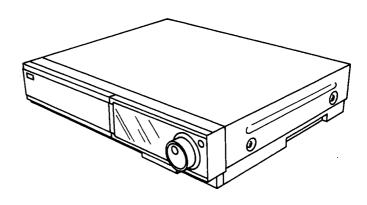
Video Cassette Recorder
AG-1980P

K-MECHANISM

Please use this service manual together with the service manual for K-Mechanism (Order No. VSD9401M242)

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Panasonic.

▲ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advice non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to ser vice or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This Service Manual contains the technical information which service personnel to understand and service the Panasonic SVHS Video Cassette Recorder model AG-1980P. Please use this service manual together with the Service Manual for mechanical adjustment and maintenance procedures of K-Mechanism (Order No. VSD9401M242).

Specifications

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Information for Your Safety

Power Source:

120 V AC, 50-60 Hz

Power Consumption: in the second second

Approx. 33 watts

Video Recording System:

2 rotary heads, helical scanning system

Video Heads:

4 heads

Tape Speed:

SP; 33.3 mm/sec. SLP; 11.1 mm/sec.

Tape Format:

S-VHS/VHS tape

Record/Playback Time:

SP; 120 min. with NV-T120

FF/REW Time:

SLP; 360 min. with NV-T120 Less than 3 min. with NV-T120

Television System:

Modulation System:

EIA; Standard (525 lines, 60 fields) NTSC color signal

Luminance; FM azimuth recording

Color signal; converted subcarrier phase shift recording

VIDEO IN

Front (PHONO); Rear (BNC);

1.0 Vp-p, 1.0 Vp-p,

75 ohm 75 ohm 75 ohm

S-VIDEO IN (4P DIN);

1.0 Vp-p. C: 0.286 Vp-p,

75 ohm 75 ohm

Output Level:

Input Level:

VIDEO OUT (BNC); S-VIDEO OUT (4P DIN);

1.0 Vp-p, 1.0 Vp-p, C: 0.286 Vp-p,

75 ohm 75 ohm

RF Modulated:

VHF channel US 3 or 4,

75 ohm, terminated

AUDIO

Input Level:

AUDIO IN (PHONO); MIC IN $(M3 \times 1)$;

HEADPHONES;

AUDIO OUT (PHONO);

-10 dBV -70 dBV -8 dBV,

 $-60 - 30 \, dBV$

47 kohm 4.7 kohm 1 kohm

8 ohm

Output Level: Audio Track:

1 track (Normal), 2 channels (Hi-Fi sound)

Video Horizontal Resolution:

Color; more than 240 lines (VHS/SP) more than 400 lines (S-VHS/SP)

Signal-to-Noise Ratio:

Video; 44 dB (VHS/SP)

Dynamic Range:

47 dB (S-VHS/SP)

Audio; 90 dB (Hi-Fi audio track) 50 Hz - 10 kHz (Normal)

Audio Frequency Response:

20 Hz-20 kHz (Hi-Fi audio track)

Operating Temperature:

5°C-40°C

Operating Humidity: Weight:

35% -80% 14% (6.5 kg)

Dimensions:

 $16^{15/16}$ " (W) $\times 43/8$ " (H) $\times 14^{15/16}$ " (D)

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

 $(430 \times 110 \times 380 \text{ mm})$

SAFETY PRECAUTIONS

GENERAL GUIDELINES

 When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

After servicing, see to it that all the protective devices such as insulation barriers, 2. After papers shields insulation are properly

installed.

After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between

the two prongs on the plug.

meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads connectors. such as screwheads connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M ohm and 5.2M ohm. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

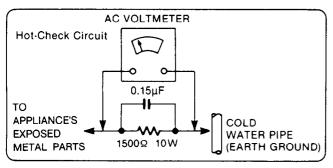


Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.

Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15uF capacitor, between each exposed metallic part on the set and a good Connect earth ground such as a water pipe, as shown in Figure 1.

3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential

across the resistor.

Check each exposed metallic part, and measure the voltage at each point.

Reverse the AC plug in the AC outlet repeat

each of the above measurements.

The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE(ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field—effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

 Immediately before handling any semiconductor component or semiconductor—equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to buildup prevent electrostatic charge or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient damage ES devices.
- 6. Do not remove a replacement ES device from its protective package untilimmediately before you are ready to install it. (Most replacementES devices are packaged with leads eletcrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

asfety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

SECTION 1. GENERAL INFORMATION

1-1. SERVICE INFORMATION

1-1-1. New GLDD Cylinder Unit

Replacement

The AG-1980 has been introduced new cylinder unit.

《NEW GLDD CYLINDER》

The construction of New GLDD Cylinder has been designed simpler than current cylinder, and the general performance has been improved.

The feature of New GLDD Cylinder.
GLDD enables less working time to replace upper cylinder unit and cylinder unit due to the following reasons.

- 1) No Soldering
- 2) No Screws

Note: GLDD stands for following.

G: GLDD has been developed and introduced from VCRs using the G-Mechanism.

LDD: Liquid Direct Drive.

This cylinder unit replacement procedure as below.

- 1. Unscrew the screw (A).
- 2. Remove the Cylinder Angle.
- 3. Unscrew the screw (B) for fixing the Earth Plate.
- 4. Remove the Earth Plate.
- Unscrew 3 screws (C) of the New GLDD Cylinder Unit from bottom of Mechanism chassis.
- 6. Carefully lift the New GLDD Cylinder Unit.

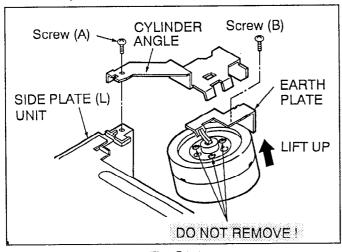


Fig. S1-1

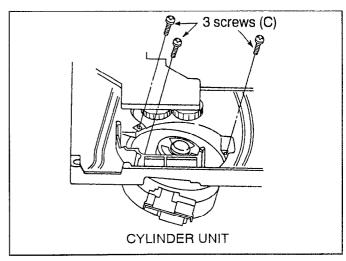


Fig. S1-2

1-1-2. Upper Cylinder Replacement

<Disassembly>

- 1. Unscrew the screw (A).
- 2. Remove the Cylinder Angle.
- 3. Unscrew the screw (B) for fixing the Earth Plate.
- 4. Remove the Earth Plate.
- 5. Carefully lift the Upper Cylinder Unit.

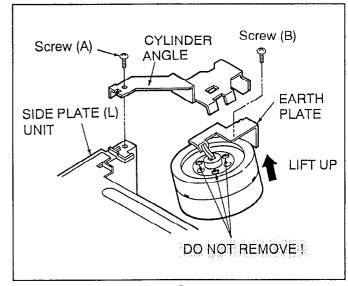


Fig. S2

Note: Do not remove 3 screws on the Upper Cylinder and the Rotor Magnet which fixed by 3 screws on the Upper Cylinder.

If it is removed, refer to following method.

- Install the Rotor Magnet so that the hole (C) on the Rotor Magnet fits to the small projection (D) on the bottom of the Upper Cylinder.
- 2. Tighten 3 screws on the top of the Upper Cylinder.

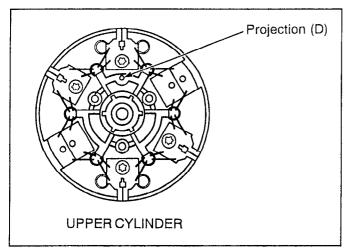


Fig. S3-1

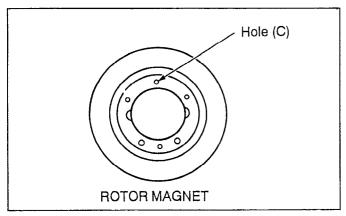


Fig. S3-2

<Assembly>

When reassembling, perform the steps in the reverse order of the disassembly method.

1-2. Cassette Tape Removal

1) Hand Operation

- 1. Take out the mechanism from the unit.
- 2. Turn the Worm Gear manually, moving the loading post to the unloading position.
- 3. Turn the capstan Rotor Unit clockwise to take up the tape.
- 4. Turn the Worm Gear again to eject the cassette.

2) Battery Operation

- Connect the battery (Manganese type, (AA) 3 pcs. / +4.5V) to P1503 on the Mechanism Connection C.B.A..
- 2. After moving the Loading Post to unloaded position, disconnect the battery to stop the Loading Motor.
- 3. Turn the Capstan to clockwise to take up the tape.
- 4. Reconnect the battery to P1503 and eject the cassette.

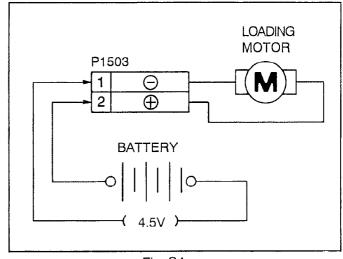


Fig. S4

If the cassette tape can not be removed by the above method, remove it by the following method.

- 1) Remove the Top Panel. (see disassembly method).
- 2) remove the Front Panel Unit.
- 3) Lift up the Pinch Arm after removing a spring.
- 4) Push the P5 Arm and remove the tape from tape transportation (P3, P2, P5 and P1 Posts).
- 5) Turn the Capstan Rotor to take up the tape.
- 6) Remove a screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
- 7) Take out the cassette tape from the Cassette Compartment.

1-3. Channel Memory IC (vol IC?) Initialization

When replacing the channel memory IC, its IC should be initialized.

Meaning of "Initialization" is to erase the SKIP CH, in other words the number of channel position is the same as displayed channel.

- 1) Press the CH UP or DOWN button so that channel display indicates CH2.
- 2) Connect the jumper wire twice to P6501 Pin 10 and Pin 12.
- 3) Channel indication light off then indicated CH2.

Note:

It should be performed before tuning. Do not turn off the power source during initialization or 1 second after initialized.

1-2. SELF TEST INDICATION DISPLAY

This VCR has a self-diagnosis and display function. If the VCR detects trouble during installation or during use, one of the following fault indication code will automatically appear in the VCR display. Fault indication codes are displayed in the form of single English letter following by two number, as example "H01".

Note:

- 1. The indication "U" is displayed on the FIP while power remains on.
- 2. Otherwise, the indication "H" or "F" is displayed on the FIP, and the power is automatically turned off.

When the power id turned on again, the fault indication code will disappear and the unit will return to normal display mode.

3. This fault indication code will be stored in the Timer microprocessor even with the AC plug disconnected. The two digit number portion if the stored fault indication code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit is service mode number 2 when turning on the service information display as for example "01" or "02" etc.

If a second error occurs, only the most recent error will be displayed and stored.

4. To erase the stored fault indication code data, press the FF, REW and EJECT buttons simultaneously for 5 seconds.

INDICATION	CAUSE	REMEDY/CHECK
U10	Detect condensation (DEW) when it is	Wait until the "d" display goes off.
	used in very humid condition.	(DEW timer: Condensation disappear
		+ 120 min.)
U11	Head clogging during Playback mode.	Head Cleaning.
H01	After cylinder lock is detect, the cylinder	Check the cylinder motor drive circuit.
	does not start rotating again even after	
	tape unloading.	
H02	Cassette tape is not wound up during	Check the capstan motor drive circuit.
	tape unloading, except Eject mode.	
F03	Mechanism locks during mode	1. Check the loading motor drive circuit.
	transition, except Eject mode.	Check the mechanism phase
		alignment.
		3. Check the mode SW.
F04	Mechanism locks during tape unloading.	_
		2. Check the mechanism phase
		alignment.
F05	Cassette tape is not wound up during	1. Check the capstan motor drive circuit.
	tape unloading in Eject mode.	2. Check the supply/take up reel pulse.
F06	Mechanism locks after tape unloading in	1. Check the loading motor drive circuit.
	Eject mode.	2. Check the mechanism phase
		alignment for cassette holder unit.
F09	No serial clock transmission between	Check the serial clock circuit.
	IC6001 and IC6503.	

Fig. S5 Self-Test Indication Display

1-3. SERVICE INFORMATION DISPLAY

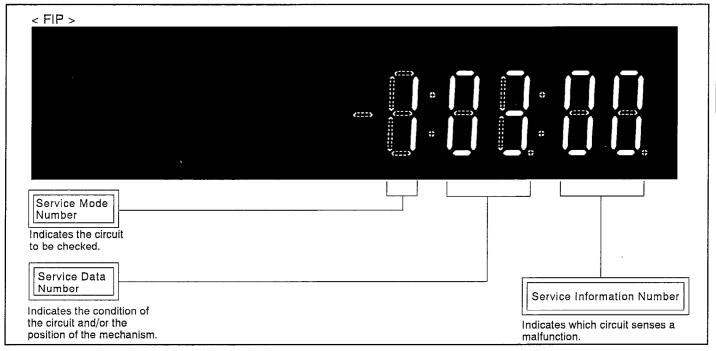


Fig. S6 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number and service data number are used by the technician during repair while the service information can be used by the consumer to diagnosis malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

Service Information No.	Malfunction								
00	Normal (No problem)								
01	Cylinder stop								
02									
03	Stop at position other than 04 or 06. (Faulty loading motor)								
04	Stop during loading								
05	Faulty capstan rotation								
06	Stop during cassette IN/EJECT operation								
09	Main serial communication error between system control and timer IC								

Fig. S7 Detail Service Information Number

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

- 1) Press the FF, REW and EJECT buttons simultaneously.
- 2) Connect a jumper wire between TL6010 and TL6011 on the Main C.B.A. and press the FF, REW and EJECT buttons simultaneously.

In the Service Information Display, there are five digits divided into 3 functions. The first digit indicates which of the service modes. (Mode 0 and 8 are not used)

The second and third digits are service data which indicates the condition of the circuit or mechanism being checked.

The forth digit is the service information display. It is to be used by the consumer to help determine the source of the malfunction. The service information display operate independently of the service mode and stores the fault indication in memory for as long as AC Power is supplied.

1-3-3. Use of Service Modes

MODE 1

Check that the sensor LED, supply & take-up sensor circuits, check the each sensor by blocking the light form sensor LED to either or both sensors.

MODE 2

Checks the mode switch circuit while indicating mechanism position.

MODE 3

Checks that mode switch circuit operations have been completed.

MODE 4

Checks the operation circuit. Indicates if system control microprocessor (IC6001) received the operating commands from the mode buttons of the front panel and/or remote controller.

MODE 5

Checks the capstan motor circuit. Indicates if the IC6001 has received the command to rotate the capstan motor.

MODE 6

Checks the cylinder motor circuit. Indicates if the IC6001 has received the command to rotate the cylinder motor.

MODE 7

Checks the loading/unloading operation. The loading motor rotates for loading operation while the "PLAY" button is pressing. The loading motor rotates for unloading operation while the "STOP" button is pressing. This mode reset by press the "POWER" button.

Service Data No.	Mode Button	Service Data No.	Mode Button
3n	POWER	03	FF
08	REC	02	REW
34	CH UP	06	PAUSE/STILL
35	CH DOWN	49	INDEX -
0U	PLAY	4U	INDEX +
00	STOP	-0	INPUT SELECT

Fig. S8 Service Data Display for Service MODE 4

1-3-4. Service Information Number

The service information number display is independent of the service mode display. The service information number will be stored as long as AC Power is supplied. If a second error occurs, only the most recent error will be displayed.

Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
		00	No light detected at either sensor.	Tape not required
;			Tape Beginning. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
		00	EJECT	Tape Required *1: STOP3:
		0	Cassette-down	The Pinch Roller is on the capstan motor shaft.
		02	REV	*2: STOP; The Pinch Roller is off the capstan
j		03	Loading/Unlcading	motor shaft. Refer to Fig. S10 to check mechanism
L			PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3*1	position and timing.
		-05	STOP *2	
			FF/REW	
			Intermediate position.	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required
닉	Display only when the operating button is pressed.	Refer to Fig. S9		Tape not required
	Left digit only, disregard Right digit display.	Left L Right	8, 9, u, A, -, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is
5	Right digit only, disregard Left digit display.	Left Right Digit Digit	1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward slow" commands received by IC6001.	displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard Left digit display.	Left Hight Digit	8, 9, u, A, -, n, L, and no display indicate that the Capstan motor "Reverse, Rew, Reverse Slow" commands received by IC6001.	
5	Left digit only, disregard Right digit display.	Left	1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

System control IC6001 senses the mechanism position through the Mode SW.

Fig. S17 shows the timing for Service Mode Number 2.

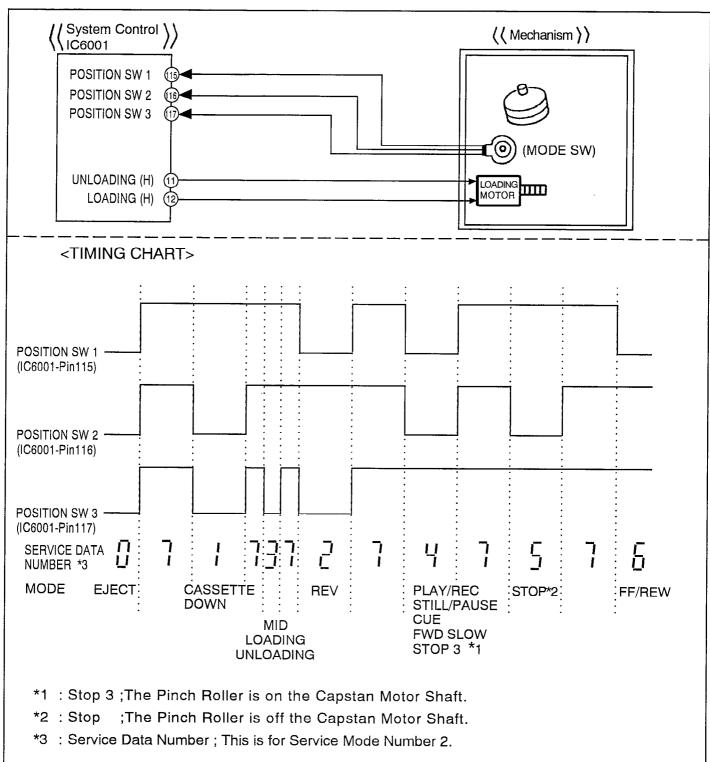


Fig. S10 Timing Chart of Mode SW

Precautions

Please read these precautions before you operate this

Cassette Compartment Door

When first unpacking the VCR, the cassette compartment door may be open partially. This is due to a safety device designed to protect the VCR from vibration during shipment; it is not a malfunction. After the AC Power Cord is connected to an AC outlet, the door returns to its original

Avoid Sudden Temperature Changes

If the VCR is suddenly moved from a cold to a warm place, moisture may form on the lape and inside the VCR. In such a case the Dew Indicator "4" will flash on and off and the VCR will not operate.

Humidity and Dust

Avoid places with high humidity or a lot of dust. These can damage internal parts.

Avoid Covering Ventilation Holes

The ventilation holes prevent abnormal increased temperature in the VCR. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VCR away from extreme direct heat such as direct sunlight, radiators, or in closed automobiles

Keep Magnets away

Never bring a magnet or magnetized object near the VCR because it will adversely affect the performance of the VCR.

No Fingers or Other Objects Inside

Touching internal parts of the VCR is dangerous, and may cause serious VCR damage. Do not attempt to disassemble the VCR. There are no user-serviceable parts inside.

Keep Away from Water

Keep the VCR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VCR, serious damage may occur. If you spill any liquid into the VCR, immediately disconnect the AC Power Cord and consult qualified service personnel.

Lightning

To avoid damage by lightning, disconnect the antenna plug from the VCR.

Keep VCR Clean

Wipe the VCR with a clean, dry cloth, Never use cleaning fluid, or other chemicals. Do not use compressed air to remove dust.

Stacking

Place the VCR in a horizontal position and do not place

Video Head Clogging

The video heads place picture signals on the tape during recording, and read picture signals from the tape during playback. Therefore they are of critical importance for the picture quality. To ensure that they can always provide optimum picture quality, this VCR is equipped with an Auto Head Cleaning Feature that removes tape particles and dust from the video heads. However, if the VCR is used over extremely long periods of time, these heads may still become dirty and cloqued. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordinacly. This is the case, for example, if during playback sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such symptoms occur consult your dealer for further advice.

If Dew Condensation Forms in the VCR

Condensation may form in the VCR if:

- •The VCR is in a room where the heater has just been turned on.
- •The VCR is in a room with steam or high humidity.
- The VCR is brought from cold surroundings into a well-heated room
- The VCR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a hot and humid place.

When dew forms in the VCR:

The Dew Indicator "..." on the VCR Display will flash on and off all the function buttons are made non-operational to protect the tape and the video heads. When the Dew Indicator flashes, wait until this indicator disappears.

•If dew condensation forms inside the VCR while the power is off, it will turn on automatically and the Dew Indicator will flash on and off. As soon as the dew condensation has been dissipated, the VCR will turn itself ON agin.

Connections

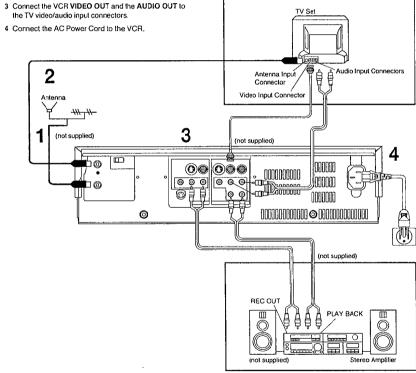
Precautions Connections

The following connections are required to operate the VCR for recording and playback through a TV set.

Connection to TV without S-Video Input

- 1 Unplug VHF/UHF antenna plug from the TV antenna input connector and plug it into the VCR VHF/UHF IN.
- 2 Connect the VCB VHF/UHF OUT to the TV antenna input connector with the Coaxial Cable supplied with the
- 4 Connect the AC Power Cord to the VCR.

 Connection to a TV Set without an S-Video Input



Connection to a Stereo Amplifier

(4)

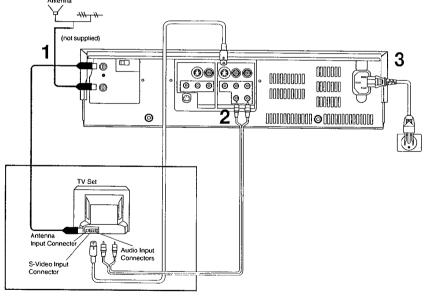
Connection to TV with a S-Video Input

- 1 Execute steps 1 and 2 on page 5.
- 2 Connect the VCR S-VIDEO OUT and the AUDIO OUT to the TV S-Video and audio input connectors.
- 3 Connect the AC Power Cord to the VCR and live AC outlet.

The S-VHS format used in this VCR enables you to obtain high resolution and high picture quality when high performance S-VHS video cassette tapes are used.

The conventional VCR video connectors output and input signals which are composed of the luminance signal (Y) and color signal (C) which are then recorded on the video tape. The new S (Separate)-Video Connector allows separate transmission of signals in order to obtain clearer pictures.

The connection with the S-Video Cable can also be used for playback of a tape that was recorded in the conventional VHS system. The "S" in the "S-Video Connector" stands for "SEPARATED Y/C", not for "S-VHS".



 Connection to a TV Set with S-Video Jack

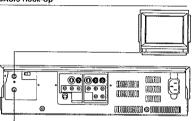
Cable Connection

Cable-VCR-TV

(For CATV/PAY Channels Recording/Playback)

The VCR has an extended range, and can tune the Low-Band. Mid-Band, Super-Band, Hyper-Band, Ultra-Band and Special cable channels. (Channels A-W, AA-FFF, A-5-A-1, GGG-WWW+12, 100 – 125, 5A). Also, the VCR can tune to any of the 56 UHF channels (14–69). Refer to Storing TV Channels on your VCR on page 10.

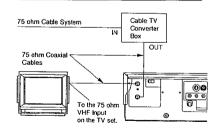
BASIC Hook-Up



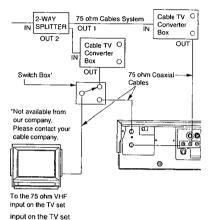
75 ohm coaxial cable Channels 2–13 and 5A, A-5–A-1, A–W, AA–FFF, GGG–WWW+12, 100 – 125

However, if you subscribe to a special channel which is scrambled—you will probably have a descrambler box for proper reception. The VCR by itself cannot properly receive a scrambled program since it does not contain a descrambler. In order for the VCR to properly receive a scrambled program, your existing descrambler must be used. There are two commonly used methods of connection in this case.

Typical Cable System Hook Ups with Cable Converter/Descrambler Boxes



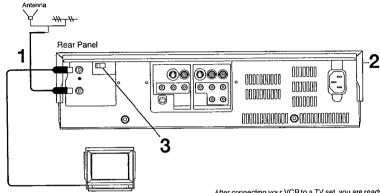
The above cable hook-up allows VCR-TV functions except for viewing one channel while recording another.



The above cable hook-up allows VCR functions, including viewing one channel while recording another, but it requires two cable TV Converter Boxes, one Switch Box and one 2-Way Splitter.

Since the VCR has an extended range of tuning, tuning-programming of non-scrambled Mid-Band and Super-Band TV programs is possible. When a cable converter or descrambler box is connected to the VCR, all timer-controlled recording functions will continue to operate with the exception of changing channels automatically. CATV Channel selection will have to be performed with the cable converter. Timer-controlled recording from CATV Channels is therefore limited to one channel at any given time.

Tuning the TV channels to your VCR



POWER

3

After connecting your VCR to a TV set, you are ready to set the RF converter. This will allow you to view tapes in playback and to use your TV as a monitor. Your VCR contains an RF converter which translates the video and audio signals in the VCR to a standard broadcast signal that your TV can receive.

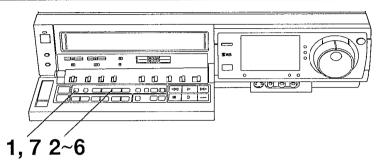
The RF converter can transmit this signal on channel 3 or 4. To prevent any interference it is advisable that you select the channel that is not normally broadcast in your area.

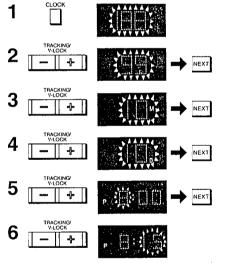
- 1 Refer to pages 5 and 6, and confirm that the VCR and TV have been connected correctly.
- 2 Turn on the VCR and TV.
- 3 Set RF Converter Channel Selector (on the rear panel) to "CH3" or "CH4"; whichever is not normally broadcast or the least viewed. This is to select a channel for video playback.

Channel Reception Check

- 1 Set channel 3 or 4 on your TV (selected in step 3) in order to check a proper broadcast reception.
- 2 Press VCR/TV (on the front panel) to "VCR" to select the "VCR" operation mode.
- The "VCR" indicator appears on the VCR Display.
- 3 Select channels on the VCR that you would normally receive clearly in your area to check proper reception.

Setting the Clock of the VCR Tuning the TV channels to your VCR Setting the Clock of the VCR





The built-in digital clock employs the 12-hour system.

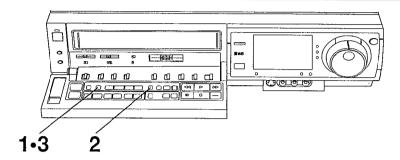
Preparation

Turn the VCR on.

- 1 Press CLOCK to start Clock Setting
- 2 Press TRACKING/V-LOCK "+" or "-" to set the YEAR. then press NEXT
- 3 Press TRACKING/V-LOCK "+" or "-" to set the MONTH, then press NEXT.
- 4 Press TRACKING/V-LOCK "+" or "-" to set the DAY.
- 5 Press TRACKING/V-LOCK "+" or "-" to set the HOUR. then press NEXT.
- 6 Press TRACKING/V-LOCK "+" or "-" to set the MINUTE.
- 7 Press CLOCK to finish the setting.

In case of a power failure, the back-up system retains the present time memory for about 60 minutes.

Storing TV Channels on your VCR



PRESET/FINE NORMAL

2 SELE

TV mode



CATVIRC mode

CATV HRC mode



3 PRESET/FINE

Introduction

The VCR is fitted with its own tuner (just like a normal TV set) and can be preset to receive up to 181 TV broadcast stations.

Preparations

- •Turn the TV on.
- Select Channel 3 or 4 on the TV for video playback.
- •Set the VCR/TV to "VCR".

Direct Tuning

Your VCR is preset at factory. This means that all channels can be received at the program positions shown in the charl on the next page. This is achieved by selecting the desired Tuning mode.

 Blanking unwanted channels so that they will be skipped during the channel selection will allow you to find your desired channel quickly. Refer to the next page how to blank program positions.

Selecting the Tuning Mode

This VCR can select from among 4 tuning modes: TV, CATV, CATV H, CATV I.

- 1 Press PRESET/FINE/NORMAL.
- 2 The tuning mode can be changed by pressing ANT SELECT
- 3 Press PRESET/FINE/NORMAL twice to select the VCR normal operation mode.

Fine Tuning Procedure

- 1 Press PRESET/FINE/NORMAL twice.
- 2 Press TRACKING/V-LOCK "+" or "-" to correct tuning.

 •"A" indicator does not appear.
- To return the tuning to its former state, press ANT SELECT.
- 3 Press PRESET/FINE/NORMAL.

Blanking of unoccupied program positions

- 1 Press PRESET/FINE/NORMAL.
- 2 Press ∨ or ∧ (channel button) to select the program position that is to be skipped.
- 3 Press ADD/DELETE. ("—" appears on the Program Position Display.)
- Repeat steps 2 and 3 for all program positions which are not occupied by a TV station. Afterwards, these program positions can no longer be called up.
- To cancel the blanked program position, select the corresponding program position on VCR and then press ADD/DELETE.
- 4 Press PRESET/FINE/NORMAL twice.

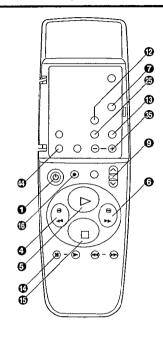
CHANNEL CHART

●TV mode

CHANNEL DESIGNATIONS	CHANNEL RECEIVED OFF TEH AIR	CHANNEL SELECTION & INDICATION ON VTR
VHF	2-13	2-13
UHF	14-69	14-69

●CATV modes (NOR, HRC, IRC)

CHANNEL DESIGNATIONS	CATV CHANNEL RECEIVED FROM CABLE	CHANNEL SELECTION & INDICATION ON VTR
BROADCAST VHF	2–13	2–13
CATV LOW BAND	A-5-A-1	95-99
CATV MID/ SUPER BANDS	A-W	14-36
CATV HYPER BAND	AA-FFF	37–65
ULTRA BAND	GGG-WWW WWW+1- WWW+12	66–94
	100-125	100–125
SPECIAL CATV CHANNEL	5A (HRC, IRC only)	1 (HRC, IRC only)



Basic Controls

Auto power on

S-VHS Selector

POWER Button with Indicator

Turns the VCR on and off.

A Hi-Fi REC LEVEL Control

Inserting a video cassette automatically turns the VCR

Adjusts the Hi-Fi recording level so that the peak

reaches about +4 dB on the Audio Level Meter.

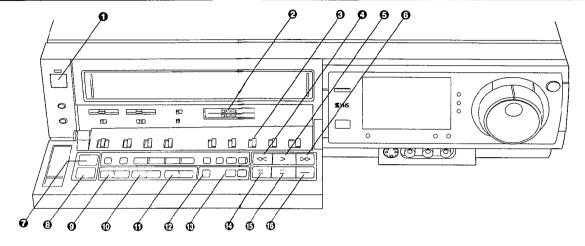
ON: S-VHS cassettes are recorded in the S-VHS

OFF: S-VHS cassettes are recorded in the VHS

•The S-VHS indicator is not lit.

Selects the correct tape recording mode.

•The S-VHS indicator is lit.



- VHS cassettes are recorded automatically in the VHS system irrespective of the switch position. · For playback, it is not necessary to operate this
- ·S-VHS recording cannot be played back on a
- conventional VHS VCR.

REW Button

Use to rewind the tape rapidly." <> "appears on the VCR Display.

When this button is held pressed during Normal playback or Rewind operation, the picture is played back at higher speed in reverse direction. (Review Playback)

If you tap this button during Normal Playback, Review Playback remains activated. Press PLAY to resume Normal Playback.

PLAY Button

Starts normal playback. ">" is lit on the VCR Display.

Used to advance the tape rapidly. "▷▷" appears on the VCR Display.

When this button is held pressed during Normal playback or Fast Forward operation, the picture is played back at higher speed in forward direction. (Cue Playback)

If you tap this button during Normal Playback, Cue Playback remains activated. Press PLAY to resume Normal Playback.

♂ VCR/TV Button

Selects "VCR" or "TV" operation mode.

EJECT Button

Eject the cassette.

- If this button is pressed to eject a cassette loaded in the VCR when the power is turned off, the VCR is turned on for automatic ejection and, afterwards, turned off
- Channel ∨ and ∧ Buttons

Selects the program positions (channels), the VCR can memorize TV stations in 99 program positions.

OTR ON + and - Buttons

Used to set the OTR (One-touch Timer Recording)

OTR OFF + and − Buttons Used to set the OTR ending time.

AUDIO OUT Button

Selects the audio track. Each time you press this button, the audio track changes as follows: Hi-Fi stereo (L and R)→Hi-Fi mono left (L)→Hi-Fi mono right (R)-→Normal (Hi-Fi off)-→Hi-Fi Stereo...

RECORDING SP/SLP Button

Selects the recording tape speed. "SP" for normal tape speed gives the best picture quality.

"SLP" for one-third tape speed gives the longest (3 times) normal recording time.

The VCR selects the correct tape speed during playback.

PAUSE/STILL Button

Used to interrupt recording temporarily (Recording

Pressing this button again resumes recording.

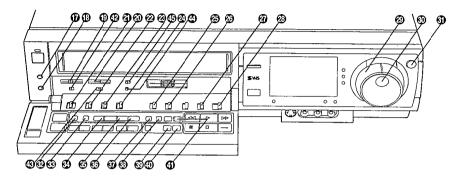
- · Also used to view a still picture during playback "[1]" appears on the VCR Display. Pressing this button again resumes playback.
- •The VCR automatically switches to the Stop mode to protect the tape and the video heads if Recording Pause or Still Playback continues for more than 5 minutes.

STOP Button

Stops Recording or Playback.

Starts Recording. ("> REC" appears on the VCR

(12)



Additional Controls

MIC Jack

For connecting a microphone, If a microphone is connected, other audio inputs are automatically switched off.

PHONES Jack

For connecting stereo headphones.

PHONES LEVEL Control

Adjusts the volume of connected stereo headphones.

PICTURE Control

Adjusts the picture sharpness during playback.

A DETAIL/NOR/EDIT Switch

DETAIL/NOR: For controlling the picture image.

No effect for controlling the picture

image.

TBC Switch (Time Base Corrector)

When playing back a tape which is loose or damaged, or when the tape movement is unstable during recording or playback, the playback picture may shake from side to side and be distorted. You can improve the picture quality by setting TBC Switch to "ON". Normally, this switch must be set to "OFF".

- During playback of some pre-recorded tapes, the playback picture may shake vertically. If this occurs, set TBC Switch to "OFF".
- The TBC function works only during normal playback.

SEARCH SOUND Selector

OFF: The sound is played back only during normal playback.

The sound can also be heard during Cue playback and Review playback.

> No sound may be heard during playback of SLP recordings if VCR and TV have been connected each other with only coaxial cable.

A Hi-Fi/NORMAL MIX Switch

Audio signal is recorded on both the Hi-Fi and normal

audio tracks.

OFF: Normal position for Hi-Fi audio playback.

Both audio tracks are played back

simultaneously. (For playback of tanes edited by Insert Editing or Audio Dubbing.)

(A) INPUT SELECT Switch

Used to select the corresponding connectors if you wish to record from the external input connectors. Select the program position "A1" or "A2" on Channel Display with INPUT SELECT on the Remote Controller.

S-VIDEO: For recording through the S-VIDEO IN and

For playback through the S-VIDEO OUT

and AUDIO OUT.

For recording through the VIDEO IN and

AUDIO IN.

TAPE SELECT Switch

Set according to the cassette tape tenoth in order to obtain correct indication of the remaining tape time. For cassettes T30, T60, T90, T120 T140-T160: For cassettes T140 and T160

MONO Switch

LINE:

OFF: For normal recording.

For recording normal sound during a stereo or Audio II broadcast. Select this position if the stereo sound is distorted due to poor reception.

Controls, Indicators and Connectors

MTS Switch

For selecting the audio track to be recorded.

SHUTTLE Ring

Used to control the playback speed step by step in both forward and reverse directions.

10G Dial

Used to locate any desired frame precisely

M JOG/SHUTTLE Button

Switches to JOG and SHUTTLE operation . To resume Normal playback, press PLAY or this

button again

@ CLOCK Button

For setting the date and time, and memorizing the

⊕ PRESET/FINE/NORMAL Button For storing TV stations on the VCR.

PROG/CHECK Button

For selecting the program number (up to 8) for timer recording and checking the timer programming.

TRACKING/V-LOCK + and - Buttons

· Used to input data for clock setting and timer programming.

· For manual tracking adjustment:

Used to make a manual tracking adjustment to minimize color and noise bar distortions which cannot be eliminated by the automatic digital tracking control. After the manual adjustment, simultaneously press TRACKING/V-LOCK "+" and "~" Buttons to return to automatic digital tracking control. If tapes recorded on another VCR are played back.

manual tracking adjustment may be required to reproduce optimum Hi-Fi sound and picture quality. For slow tracking adjustment:

Used to minimize the noise bar distortions during Still,

Still Advance or Slow playback. Put VCR in Slow playback to make this adjustment.

· For vertical locking adjustment: Used to minimize vertical litter during Still playback.

NEXT Button

Used to memorize input data and to change to the next display segment. Each time you press this button, the flashing indication on Date Display changes in the order YEAR, MONTH, DAY, HOUR, MINUTE.

 ANT SELECT Button Used to select the tuning input mode.

♠ ADD/DELETE Button

Used to blank unoccupied program positions.

 AUDIO DUB Button Used to make an Audio Dub. (The Audio Dub indicator is lit).

(I) INSERT Button

Used for Insert Editing. (The Insert Edit Indicator is

TIMER REC Button

Used to enter VCR Timer Recording: standby mode. When Timer Recording has been activated (""" appears on the VCR Display), the VCR cannot be operated manually.

Press this button again to operate the VCR. Pressing this button if no Timer Recording data is programmed or no cassette is inserted, "I flashes on and off to indicate that Timer Recording cannot be performed.

(2) COLOR/BW Switch

COLOR: Forced color mode.

Burst signal is forcibly superimposed onto the

output signal.

Forced BW mode.

Chroma signal including the burst signal from

the output signal is forcibly muted.

AUTO/WIDE/NOR Switch

In recording mode, the unit searchs for the DC component on the chroma signal of the S-VIDEO signal, and when the DC is detected, the ID is recorded onto the CTL

signal as the WIDE signal.

In playback mode, the ID recorded on the CTL signal is detected and superimposed onto to chroma signal output of the

S-VIDEO signal.

In recording mode, the ID is recorded forciby onto the CTL signal, and in the

playback mode, DC is superimposed onto the chroma signal output of the S-VIDEO sional.

Fixed to normal recording and playback

mode.

RESET Switch

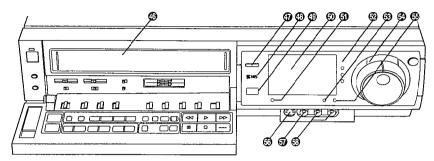
To reset the counter to 0000.

Linear Audio REC Switch

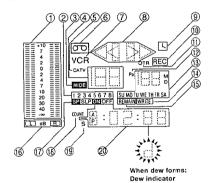
Same signal as the mixed Hi-Fi audio is recorded and played back.

LINEAR: Linear audio Input signal of the rear panel is

recorded and played back.



- Cassette Compartment
- PUSH-OPEN
 Opens the control panel.
- S-VHS Indicator
- Infrared Remote Control Receiver Window Receives signals from the Remote Controller.
- Multi-Function Display



- (1) Audio Level Meter
- 2 Timer Program Number
- 3 Wide 16 x 9 Playback
- (4) Channel Display
- (5) Cable TV Indicator
- (6) Cassette-in Indicator
- (7) VCR Mode Indicator
- (8) Tape Running Indicator

- Timer Recording Indicator
- (10) Recording Indicator
- (1) OTR Mode Indicator
- (12) Position Indicator
- (13) Date Display
- (14) Write Indicator
- (5) Remaining Tape Time Indicator
- (f) Audio Track Indicators
- (7) Tape Speed Indicator
- (18) Tape Counter Mode Indicator
- 19 Index Search Indicator
- 20 Clock/Tape Counter Display
- TBC Indicator
- Reception Indicators of Stereo, Audio II and Mono Indicates the sound system of a broadcast.
- Audio Dub Indicator
- JOG/SHUTTLE Indicator
 Lights up if JOG/SHUTTLE Button is pressed.
- Insert Edit Indicator
- S-VIDEO IN Connector (AV2)
 For connecting the S-video cable of a video camera or

another VCR equipped with an S-VIDEO OUT connector.

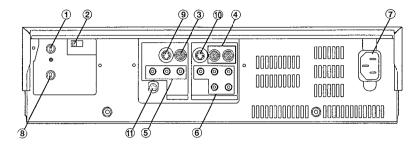
VIDEO IN Connector (AV2)

For connecting the video cable of a video came.

For connecting the video cable of a video camera or another VCR.

AUDIO IN Connectors (AV2)

For connecting the audio cable(s) of a video camera, a Hi-Fi stereo system or another VCR.



VHF/UHF OUT Connector
 For connecting to a TV antenna connector.

② CH3/CH4 Switch Used to select the RF Converter Channel (CH3 or CH4), Select channel not used in your area.

VIDEO IN Connector (AV1)
 For connecting to another VCR or to a signal source equipped with a video output connector.

VIDEO OUT Connector
 For connecting to another VCR or to a TV equipped with a video input connector.

(5) AUDIO IN Connector (AV1)

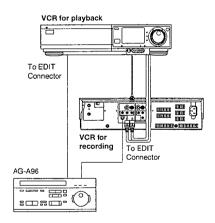
For connecting the audio cables of a stereo audio system.

AUDIO OUT Connectors
 For connecting the audio cables to a stereo audio system or to a TV equipped with audio input connectors.

- ⑦ ACIN~
- WHF/UHF IN Connector
 For connecting an external antenna.
- S-VIDEO IN Connector (AV1)
 For connecting to another VCR or to a signal source equipped with an S-Video output connector.
- (i) S-VIDEO OUT Connector
 For connecting to another VCR or to a TV equipped with an S-Video input connector.
- 1) EDIT Connector

By connecting the optional Editing Controller AG-A96 to this connector, editing functions can be performed more quickly and efficiently between two VCRs or between a VCR and a carnera recorder.

The use of the Editing Controller AG-A96 (optional) gives you control over both the playback and the recording VCRs directly from this controller, to let you perform such editing functions as Assemble Editing, Insert Editing and Audio Dubbing more quickly and efficiently.



Carefully read the operating instructions for the AG-A96.

Caution:

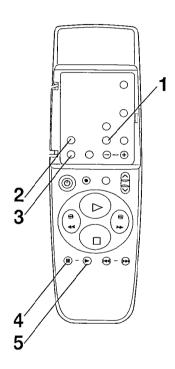
When using the AG-A96, switch the AG-A96 to the standard speed mode. Do this by pressing the EDIT STOP button and PLAYER button simultaneously.

Be sure to set the Shuttle Ring on this unit to the PAUSE mode when using the AG-A96.

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Infrared Remote Controller

Infrared Remote Controller



1 INPUT SELECT Button

Selects external recording source connected to video/audio input connectors. "A1" or "A2" appears on the VCR Display.

- A1: Recording through S-VIDEO IN or VIDEO IN and
- AUDIO IN Connectors on Rear Panel.

 A2: Recording through S-VIDEO IN or VIDEO IN and AUDIO IN Connectors on Front Panel.

2 CLOCK/COUNTER Button

Changes the indication on the VCR Display from CLOCK time to COUNTER (tape running time) and vice versa. If the character-forming segments for seconds are circulating on COUNTER Display, this indicates that there is nothing recorded on the tape being moved.

TAPE REMAIN Button

Changes the indication of the VCR Display from tape running time (COUNTER) to remaining tape time, or vice versa, "REMAIN" appears on the VCR Display during remaining tape time display mode.

3 RESET Button

Resets the Tape Counter (tape running time) to

•The Tape Counter is automatically reset to "0:00.00" when a cassette is inserted.

4 STILL ADV Button

For Still Picture Advance playback. Each time you press this button during Still playback, the still picture is advanced by one field.

5 SLOW Button

For Slow Motion playback. Press SLOW Button during normal playback. The slow-motion speed can be varied with "+" or "-" Buttons.

Power source for the Remote Controller

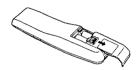
The Infrared Remote Controller is powered by 2 ANSI "AA" size batteries. Replace the batteries with new ones about every year: However, battery life depends on the frequency of use or the selected operation mode.

Precautions for battery replacement

- •Load new batteries with their polarities (+ and -) aligned
- Do not mix new and old batteries and never use an alkaline battery with a manganese battery.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- •Remove batteries and store them in a cool and dry place when Remote Controller is not in use for long periods of
- ·Remove spent batteries immediately and dispose of them.

Loading the batteries

1 Remove Battery Compartment Lid.

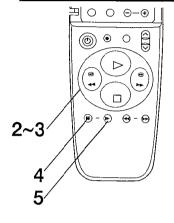


2 Insert the batteries, aligning their polarities as indicated inside Battery Compartment.

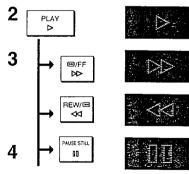


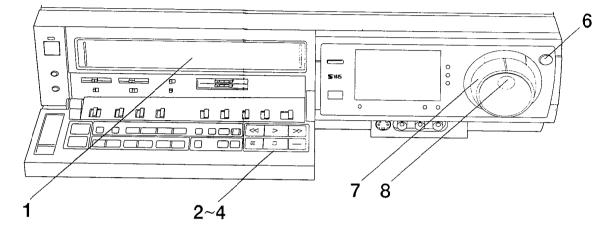
3 Replace the lid.











Introduction

The following functions can be performed with the Remote Controller or with the appropriate operation buttons on the

- Normal playback
- Cue/Review playback
- Still playback
- Slow playback*
- Shuttle operation to change the playback speed in small steps between Still and Cue/Review playback.
- . Jog operation to locate the desired picture exactly.

*Operative only with the Remote Controller.

The playback picture appears promptly on the TV from the Stop mode because the VCR head cylinder remains rotating for about 20 minutes even in the Stop mode.

Preparation

Turn the TV on and select channel 3 or 4 for video playback on the TV.

Playback procedure

- 1 Insert a recorded cassette.
- •If a cassette has been inside the VCR, press POWER to turn VCR on.

Normal playback

2 Press PLAY to start Normal playback.

Cue/Review playback

- 3 Keep FF or REW pressed to perform Cue or Review playback at a higher speed in forward or backward direction.
- This is convenient to search for a specific scene during Normal playback,
- If you tap FF or REW, Cue or Review playback remains activated. Press PLAY to resume normal playback.

Still playback

4 Press PAUSE/STILL to view the still picture during Normal playback. Press PLAY or PAUSE/STILL to resume normal playback.

Slow playback

5 Press SLOW on the Remote Controller to view the slow-motion picture. The tape speed of Slow playback can be adjusted with "+" or "-" Press PLAY to resume normal playback.

Jog/Shuttle playback

- 6 Press JOG/SHUTTLE. Still playback starts.
- 7 Rotate Shuttle Ring to select the desired playback speed in forward and backward directions.
- 8 Rotate Jog Dial to locate the desired picture precisely.

Options

- olf you press TAPE REMAIN on the Remote Controller, the approximate remaining tape time is indicated in hours and minutes. For correct Remaining Tape Time indication, set TAPE SELECT on the VCR according to the cassette
- For cassettes T30, T60, T90, T120 T140-T160: For cassettes T140 and T160
- To listen to the sound during Cue playback and Review playback, set SEARCH SOUND on the VCR to "ON".
- If the picture shakes from side to side or is distorted during playback because it was recorded on another VCR, you can improve the picture quality. Set TBC on VCR to "ON". Normally, this switch must be set to "OFF".

Notes:

- Cue/Review playback for more than 10 minutes switches the VCR to normal playback.
- Still or Slow playback for more than 5 minutes switches the VCR to normal playback.
- Cue or Review playback picture can contain horizontal noise bars or distortions. However this does not indicate a malfunction.
- In the playback of the LP recording:
- 1. In the special playback functions except normal playback, the picture may contain horizontal noise bars, distortions, unstable colors, or can be in black-and-white.
- 2. A tape recorded on another VCR may need Tracking Control adjustment; picture may still be inferior owing to format limitations.

5

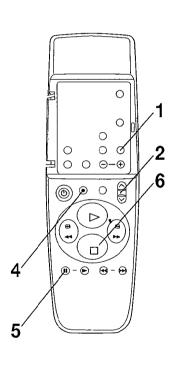
0

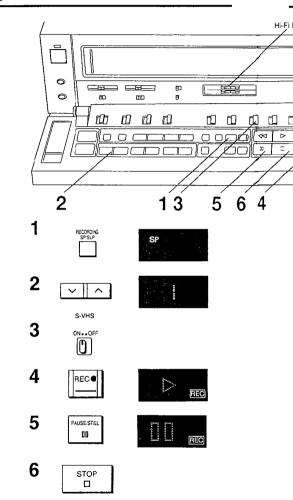
0 0

6 6 6 6

On-the-spot Recording

On-the-spot Recording





Introduction

Hi-Fi REC LEVEL

_

SWS

You can record a TV broadcast without turning on the TV by using the Infrared Remote Controller or by using the appropriate buttons on the VCR. You can also watch a TV broadcast on the TV while recording another TV broadcast.

Preparations

- Insert a cassette with an erasure prevention tab. (If a cassette has been inside VCR, press POWER to turn
- Press VCR/TV to display "VCR" on the VCR Display.

Recording procedure

- 1 Select the desired tape speed "SP" or "SLP" with the RECORDING SP/SLP button.
- 2 Select the desired channel to be recorded by pressing V or A on the VCR.
- •If you wish to confirm proper reception, turn TV on and select channel 3 or 4 (for video playback channel) on
- 3 Set S-VHS to "ON" or "OFF".
- ON: S-VHS tape is recorded in S-VHS format; VHS tape in VHS format.
- OFF: for VHS format on S-VHS tape
- 4 Press REC to start Recording.
- When a video cassette without an erasure prevention tab is inserted, "oo" blinks and an alarm sounds indicating that recording is not possible.
- 5 To interrupt recording temporarily, press PAUSE/STILL. Press this button again to continue recording.
- A recording pause for more than 5 minutes switches the VCR to Stop mode to protect the tape and the video
- 6 Press STOP to stop recording

Watching any other TV broadcast while recording

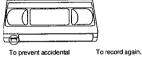
- 1 Set VCR/TV to "TV" during recording.
- 2 Select the desired channel on TV.

Hi-Fi Audio Recording Level Adjustment

Normally set Hi-Fi REC LEVEL in the middle "5" position (click stop). Recommended peaks in audio level are +4 dB. When using the VCR as a Hi-Fi Audio Recorder or when producing your own tapes, it may be desirable to adjust Hi-Fi REC LEVEL to some other position.

•Sound on normal track is adjusted automatically.

Erasure Prevention Tab



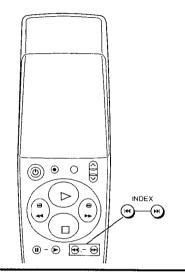


a screwdriver.



Cover the hole with adhesive tepe.

Automatic Features



Introduction

This VCR has the following automatic functions:

Inserting a cassette turns the VCR on.

Auto playback

Inserting a cassette without an erasure prevention tab starts Playback.

Auto rewind

Fully rewind the tape when the tape reaches its end during Playback and Recording (except OTR and Timer Recording).

Auto power off eject

Ejects a cassette when the VCR is OFF by pressing EJECT only (the VCR turns OFF after ejecting the cassette).

Auto head cleaning

Removes tape particles and dust from the video heads so that the heads always provide optimum picture quality. While this function is working, some mechanical noise can be heard from the VCR; this does not indicate a malfunction.

Index Search

Introduction

This function allows you to quickly locate the beginning of each recording marked with an index signal. An index signal is set automatically, and the indicator "WRITE" appears for a few seconds on the VCR Display in the following cases:

- . When recording is started with the REC Button.
- At the beginning of Timer or OTR Recording.

Additionally, you can set an index signal during Recording by pressing the REC Button(s) at the desired position.

It is possible to skip up to 20 index signals in forward or backward direction to access the desired recording.

Preparation

Press PLAY or STOP Button.

For example:

Access the 2nd recorded segment ahead.



Operation

Press INDEX ►►I twice to input the number of the index

When the input index signal is reached, normal playback



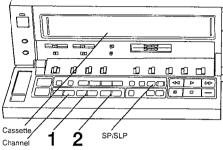


 Press INDEX I to access previous recorded segment (in backward direction)

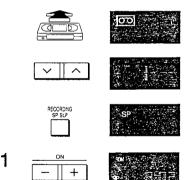
- •The interval between two index signals should be at least 3 minutes in SP recording and 5 minutes in SLP recording.
- If using cassettes that contain long blank (unrecorded) portions or which have been repeatedly recorded and re-recorded, Search may not function correctly.

One-Touch Timer Recording (OTR)

Automatic Features One-Touch Timer Recording (OTR)



OTR recording of TV Station 1 from 8:02 pm to 8:30 pm.







OTR is for immediately setting the VCR to record a TV broadcast starting within the next 24 hours.

- •Insert a cassette with an erasure prevention tab. (If it has already been inserted, press POWER to turn VCR on.)
- . Select the desired tape speed "SP" or "SLP" with RECORDING SP/SLP.
- •Select the desired channel to be recorded by pressing ✓ or A on VCR.

OTR procedure

Each time you tap OTR ON +/- OTR OFF +/- Button, the time indication changes in 1-minute increments. Keeping it depressed changes the time indication in 10-minutes increments.

- 1 Set OTR starting time by pressing ON + or -If you want to start OTR recording immediately, disregard this step.
- When a cassette without an erasure prevention tab is inserted, "so" blinks and an alarm sounds indicating that recording is not possible.
- 2 Set OTR ending time by pressing OFF + or -.
- If the OTR starting time is set, OFF + or Button must be pressed within 8 seconds to select the OTR ending time, otherwise the starting time will be canceled.

After 4 seconds, the display will automatically change back to the starting time indication.

The VCR will automatically switch off, when the OTR is completed. To turn the VCR on, press POWER.

- •To interrupt an OTR, press POWER.
- •It is possible to change the OTR starting time or ending time before the recording starts.
- •It is possible to change the OTR ending time even during the recording.
- •Be sure that the OTR function does not overlap with a programmed timer recording. An OTR always takes precedence over a timer recording.

To confirm the OTR ending time before the recording

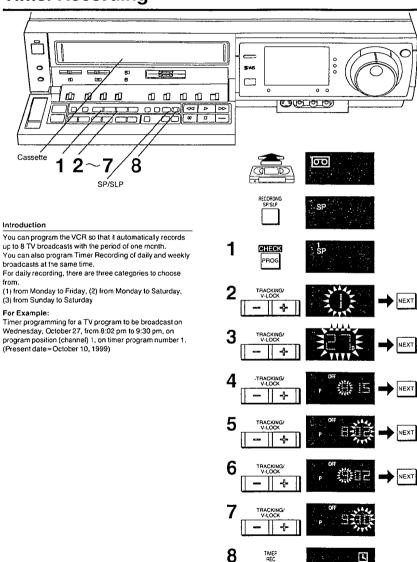
Press PROG/CHECK once.

If pressed twice, the present time is displayed again.

Press PROG/CHECK to confirm the present time during

Timer Recording

Timer Recording



Preparations

- Insert a cassette with an erasure prevention tab. (If it has already been inserted, press POWER to turn VCR the on.)
- Select the desired tape speed "SP" or "SLP" with RECORDING SP/SLP.

Timer Recording procedure

- Press PROG/CHECK to start programming.
 Timer program number "1" appears. (Each time this.)
- Timer program number "1" appears. (Each time this button is pressed, the timer program number is changed.)
- 2 Press TRACKING/V-LOCK +/- to select the desired TV station and then NEXT to memorize input data and change to the next display segment.
- 3 Press TRACKING/V-LOCK ±/- to set the starting date of timer recording and then NEXT.
- For daily recording, press TRACKING/V-LOCK until the desired daily recording type appears.
- For weekly recording, press TRACKING/V-LOCK until the desired indication for the day of the week appears.
- 4 Press TRACKING/V-LOCK +/- to set the start time (hour), then NEXT.
- 5 Press TRACKING/V-LOCK +/- to set the start time (minute), then NEXT.
- 6 Press TRACKING/V-LOCK +/- to set the end time (hour), then NEXT.
- 7 Press TRACKING/V-LOCK +/- to set the end time (minute). No need to press NEXT.
- Repeat steps 1 to 7 to program several timer recordings successively.
- Press TIMER REC to activate Timer Recording.
 "[]" appears on the VCR Display and the VCR cannot be operated manually.
- ■If you want to operate the VCR, press TIMER REC to switch off "□". To reactive the timer press this button again.

Confirming timer programming

Press PROG/CHECK to select the timer program number to be checked. The channel, date, starting and ending time are displayed for about 12 seconds.

Canceling timer programming

- 1 Press TIMER REC to deactivate Timer Recording. (Be sure that "Q" disappears.)
- 2 Press PROG/CHECK to select the timer program number to be canceled.
- 3 Press TRACKING/V-LOCK +/- simultaneously for more than 3 seconds.

Note

If a timer recording is interrupted or canceled, the programmed recording data is memorized until 4:00 am two days later. However, if another timer recording o OTR is activated or performed at 4:00 am two days later, the recording data will be maintained until 4 am on the following day.

Preparations

- Connect a Movie Camera or another VCR to this VCR as shown in the diagram.
- Set DETAIL/NOR/EDIT to "EDIT".
- Insert a recorded cassette in the connected Movie Camera or another VCF, used as Player, and a blank cassette in this VCR, used as Recorder.
- Press INPUT SELECT on Remote Controller to select the program position (channel) "A1" or "A2".
- A1: Recording through S-VIDEO IN or VIDEO IN and AUDIO IN Connectors (AV1) on the rear panel.
- A2: Recording through S-VIDEO IN or VIDEO IN and AUDIO IN Connectors (AV2) on the front panel.
- Set INPUT SELECT on VCR to select the corresponding connectors.

S-VIDEO: S-VIDEO IN and AUDIO IN Connectors
LINE: VIDEO IN and AUDIO IN Connectors



1

2

3











Operations

1 Play back the recorded tape on the Player VCR.

AV1

0000000000 0000000000

01200 01200 012100

- 2 Press REC on the Recording VCR.
- 3 Press STOP to stop copying.

Note:

Be sure to set **DETAIL/NOR/EDIT** to "NOR" after copying is finished for normal use.

Assembly Editing

This function is used to make an edited tape from several other video recordings.

A new scene can be joined to the end of an existing recording without interference or distortion.

Preparations

- •Insert a recorded cassette with an erasure prevention tab.
- Select the corresponding input connectors.
 (Refer to "Preparations" on page 28.)
- . Set DETAIL/NOR/EDIT to "EDIT".

















4



PAUSE/STILL 00





Operations

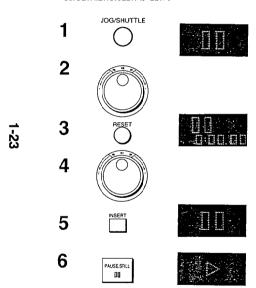
- Press REC and then PAUSE/STILL to put the VCR in Recording Pause.
- 2 Press JOG/SHUTTLE.
- Search for the end part of a scene by using the JOG Dial.
 2 seconds later, the VCR is set to Recording Pause again.
- 4 Start Recording to join a new scene by pressing PAUSE/STILL.

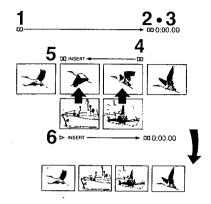
Insert Editing

This function allows you to smoothly insert new scenes between selected Editing "In" and "Out" points on an existing recording.

Insert Editing cannot be executed on blank tape segments. In such a case, it is necessary to use Assembly Editing first.

- *Connect a Movie Camera or another VCR to this VCR as shown in the diagram on page 28.
- Insert a recorded cassette with an erasure prevention tab.
- Select the corresponding input connectors.
- (Refer to "Preparations" on page 28.)
- Set DETAIL/NOR/EDIT to "EDIT".





Operations

- 1 Press JOG/SHUTTLE.
- 2 Search for Editing Out (ending) point with SHUTTLE Ring and JOG Dial. Put the VCR into Still playback.
- 3 Press RESET to reset the Tape Counter to "0:00.00".
- 4 Search for Editing in (starting) point with SHUTTLE Ring and JOG Dial. Put the VCR into Still playback.
- 5 Press INSERT. (INSERT Indicator is lit.)
- . If you want to replace the original sound-track on the normal audio track with a new sound-track, press AUDIO DUB. (AUDIO DUB Indicator is lit.)
- 6 Press PAUSE/STILL to start Insert Editing.
- Insert Editing stops when the tape reaches editing out point (counter position "0:00.00"). The VCR switches to Still playback.

Notes:

- When using the Insert Editing function, switching to the SP mode is recommended.
- · Normal audio is retained in any insert video edit. while any recorded Hi-Fi audio will be lost.

Audio Dubbing

This function is used to add background music, narration, etc. on an already recorded tape.

Preparations

- •Insert a recorded cassette with an erasure prevention tab.
- Select the corresponding input connectors. (Refer to "Preparations" on page 28.)

PLAY

⊳

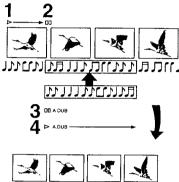
PAUSE'STIL 00

PAUSE/STILL

00

3

4





Operations

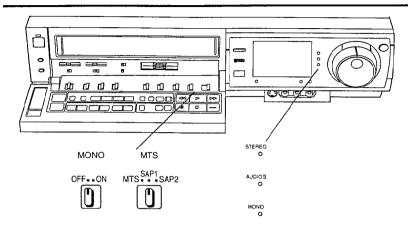
>

- 1 Press PLAY and search for the starting point where you wish to record the new sound-track.
- 2 Press PAUSE/STILL at the starting point of Audio
- 3 Press AUDIO DUB. (AUDIO DUB Indicator is lit.)
- 4 Press PAUSE/STILL to start Audio Dubbing.
- 5 Stop Audio Dubbing by pressing STOP.

Note:

A new sound is dubbed onto the normal audio track of the tape, and the original sound is erased. However, the original sound is maintained on the Hi-Fi audio tracks. This means that Audio Dubbing is made monaurally.

- Press AUDIO OUT to select the normal audio track to listen to the sound recorded with Audio Dubbing.
- Select the Hi-Fi audio tracks to listen to the original sound.
- . Set Hi-Fi/NORMAL MIX to "ON" to listen to both the original sound and the sound-track added by Audio



When a stereo and/or Audio II broadcast is received, "STEREO" and/or "AUDIO II" are lit to inform you of the type of broadcast.

The table below shows the TV broadcast type, MTS switch settings, and audio recording patterns.

Be sure that MONO Switch is set to "OFF" before setting MTS Switch and follow the operation procedure described on page 23 to record on the Hi-Fi audio tracks.

		Audio Track									
TV Broadcast	MTS switch	Normal	Hi-Fi								
		(Mono)	Left	Right							
Mono	Ali position	Mono I Mono									
Stereo	All position	L+R (Mixed)	Left	Right							
Mono	MTS	Mono	Mono	Mono							
and Audio II	SAP1	Mono	Mona	Audio II							
(SAP)	SAP2	Mono	Audio II								
Stereo	MTS	L+R (Mixed)	Left	Right							
and Audio II	SAP1	L+R (Mixed)	L+R (Mixed)	Audio II							
(SAP)	SAP2	L + R (Mixed)	Aud	io II							

MONO Switch

If the sound of a stereo or Audio II broadcast is impaired by noise due to weak reception, set MONO Switch to "ON". ["MONO" indicator is lit.) The TV broadcast is recorded monaurally for easier listening. To resume stere

Note:

This table shows the condition when the Linear Audio REC Switch is in the "L+R" position. When this switch is in the "LINEAR" position, the linear audio input signal is recorded.

Before requesting service, check the following points once again.

No Correct VCR Operation										
SYMPTOM	CAUSE	REMEDY	CHECKED							
No Indications on the VCR Display.	AC Power Cord is not connected to a live AC outlet.	Connect the AC Power Cord the VCR.								
VCR Display is on but VCR does not function.	Timer Recording is activated. (Timer Recording Indicator [3] is lit.)	Press TIMER REC to deactivated Timer Recording mode.								
	Safety devices are operating, or Dew Light is ON.	Turn off POWER, disconnect AC Power Cord from AC outlet, About 1 minute later, reconnect AC Power Cord to AC outlet and turn on POWER.								
VCR stops operating and turns itself off a few seconds later.	Tape is jammed in VCR.	Do not try to remove jammed tape as this may damage it. Consult your dealer.								

REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout its useful life. The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is a complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deterlorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid accidental problems. This maintenance should also be performed after any repairs are done on the equipment.

The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the lifespan and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

MAINTENANCE CHART

The following periodic maintenance is required to prolong the life of the machine.

Ref. No.	Parte Name	Parts Name									Ref. No.		Hour										
IN P/L	raits Name	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	IN P/L	Parts Name	500	1000	1500	2000	2500	3000	3500	4000	4500	5000
	Tape Transporter	•	•	•	•	•	•	•	•	•	•	63(1)	Supply Brake Arm U				0				Ø		
20(1)	A/C Head U	•	•	•	•	•	•	•	0	•	•	64(1)	Take-up Brake Arm U				0				0		
73(1)	Cylinder U	•	•	•	•	•	•	•	0	•	•	9(1)	Cleaner Arm U				0				0		
77(1)	Upper Cylinder	•	0	•	0	•	0	•	0	•	0	12(1)	FE Head	•	•	•	•	•	•	•	0	•	•
60(1)	Supply Red Table U	•	•	•	• Δ	•	•	•	lacktriangle	•	• Δ	127(2)	Mode Switch								0		
61(1)	Take-up Reel Tuble U	•	•	•	• 4	•	•	•	•	•	• 4	108(2)	Main Cam Gear				×				×		
105(2)	Capstan Housing U								0			121(2)	Loading Motor U				0				0		
106(2)	Capstan Roter U	•	●△	•	●△	•	• 4	•	© Δ	•	• 4	40(1)	Inclined Base (S) U				•				A		0
49(1)	Pinch Arm U				0				0			42(1)	Inclined Base (T) U				A				A		0
15(1)	Impedance Roller U	•	•	•	•	•	•	•	0	•	•											-	
52(1)	Tension Band U				0				Ø														
113(2)	Timing Belt				0				0							·i				1	L l.		

* NOTE:

Symbol	Maintenence	Requirement	Remerk
•	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
0	Replacement	<u> </u>	
Δ	Lubrication	High Quality Spindle Oil (Purchase locally)	Supply one or two drops of oil.
A	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

SECTION 2. DISASSEMBLY PROCEDURE

2-1 DISASSEMBLY FLOW CHART

This flow chart indicates disassmbly steps of the cabinet parts and circuit boards in order to find the necessary items for servicing.

When reassembling, perform the steps in the reverse order.

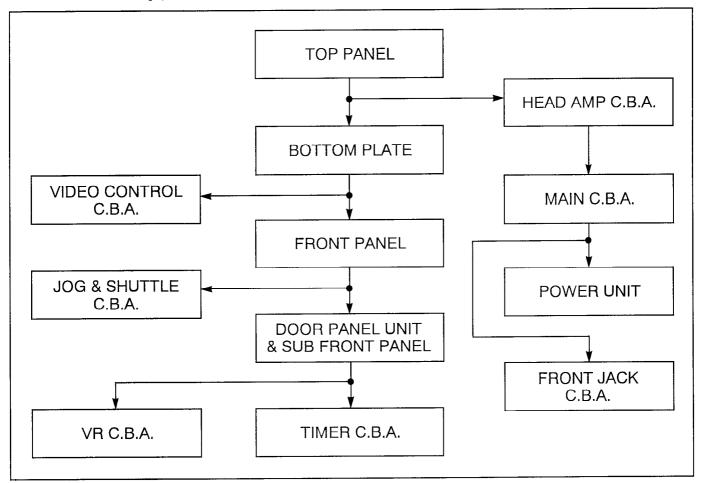


Fig. D1

2-2 DISASSEMBLY METHOD

2-2-1. Removal of the Top Panel

- 1. Unscrew the 4 screws (A) on the Top Panel.
- 2. Lift up rear portion of the TopPanel than slide it off the back of the uint.

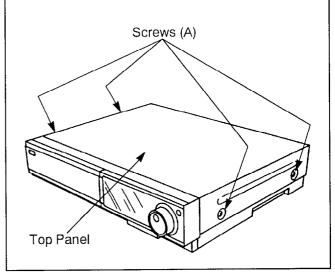


Fig. D2

2-2-2. Removal of the Bottom Plate

- 1. Unscrew the 7 screws (B) on the Bottom Plate.
- 2. Lift the Bottom Plate.

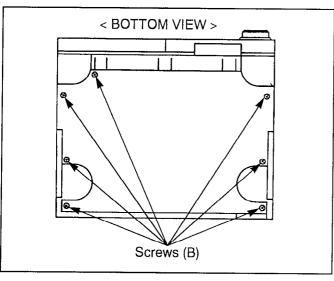


Fig. D3

2-2-3. Removal of the Bottom Plate

- 1. Unscrew a screw (C) on the top of the Front Panel.
- 2. Press the Door Panel OPEN button.
- 3. Unlock the 7 locking tabs (D) of the Front Panel.
- 4. Carefully pull out the Front Panel with disconnect P6701 connector.

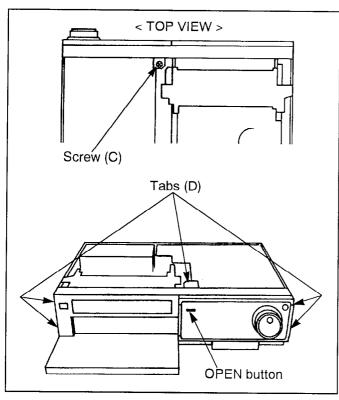


Fig. D4

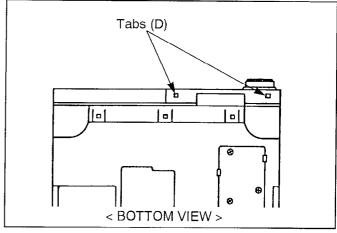


Fig. D4-1

2-2-4. Removal of the Door Panel Unit and Sub Front Panel

- 1. Unscrew the 4 screws (E) on the Timer C.B.A. and VR C.B.A..
- 2. Unlock the 3 locking tabs (F) on the frame.
- 3. Disconnect the 2 flexible cables from P6501 and P6853.

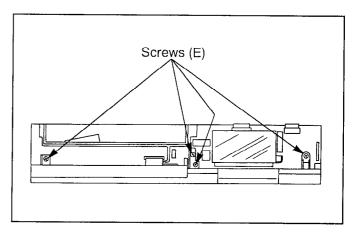


Fig. D5

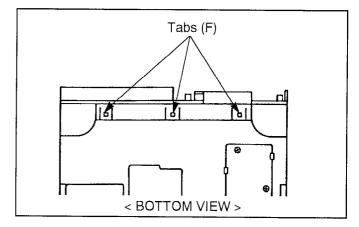


Fig. D5-1

2-2-5. Removal of the Door Panel Switch Unit

- 1. Unscrew the 3 screws (G) on the Door Panel.
- 2. Unlock the 10 locking tabs (H) on the Door Panel Frame.
- 3. Carefully slide the Switch C.B.A. Unit in the direction indicated by arrow.

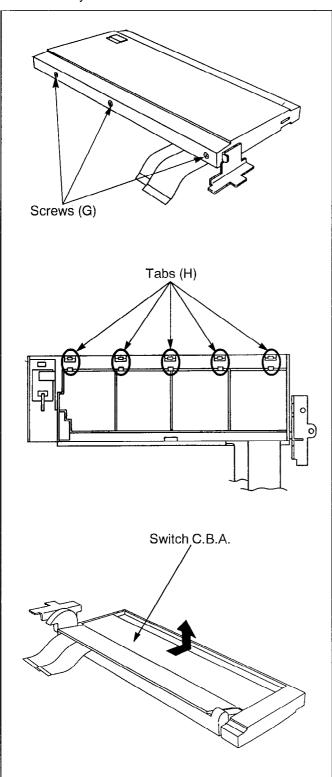


Fig. D6

2-2-6. Removal of the Timer C.B.A.

- 1. Unscrew a screw (1) on the Timer C.B.A..
- 2. Unlock a locking tab (J) on the Timer C.B.A..
- 3. Disconnect the 2 flexible cables (P6502 and P6503) and a connector (P6504).

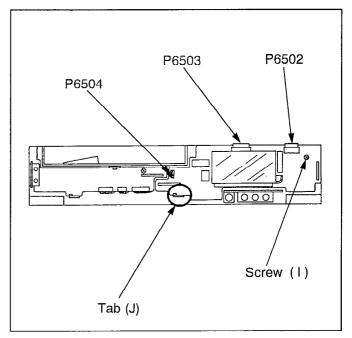


Fig. D7

2-2-7. Removal of the VR C.B.A.

- 1. Unscrew a screw (K) on the VR C.B.A..
- 2. Unlock the 2 locking tabs (L) on the VR C.B.A..
- 3. Disconnect the 3 connectors (P6851,P6852 and P6870).

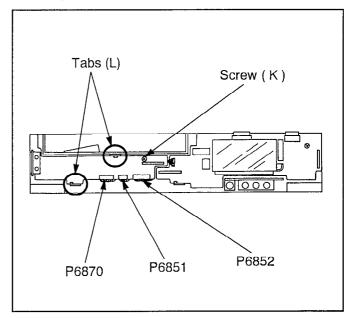
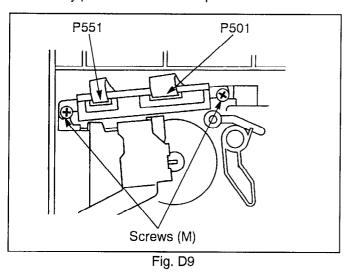


Fig. D8

2-2-8. Removal of the Head Amp C.B.A.

- 1. Unscrew the 2 screws (M) on the Head Amp C.B.A..
- 2. Disconnect the 2 flexible cables (P551,P501).
- 3. Carefully pull out the Head Amp C.B.A..



2-2-9. Removal of the Main C.B.A.

- 1. Unscrew the 5 screws (N) on the Main C.B.A..
- 2. Unscrew the 4 screws (O) on rear side of the frame.
- 3. Unlock a locking tab (P) on the Main C.B.A..

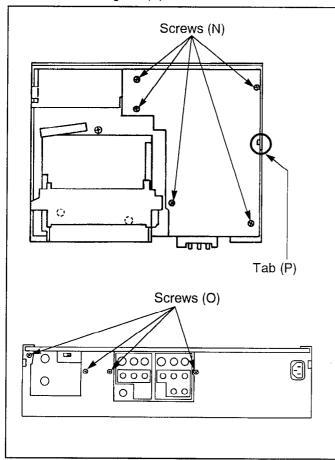


Fig. D10

2-2-10. Removal of the Power Unit

- 1. Unscrew the 3 screws (Q) on the Power Unit.
- 2. Lift up the Power Unit and pull out a connector (P1002).

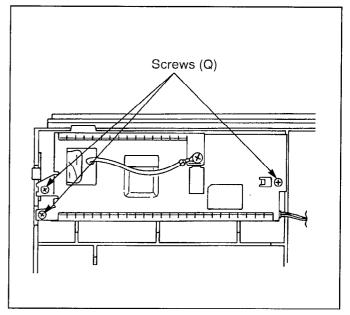


Fig. D11

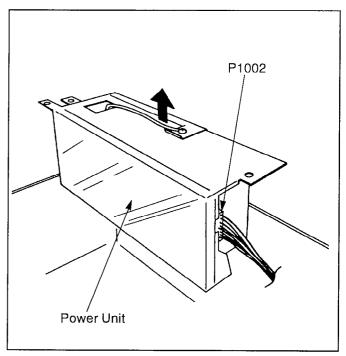


Fig. D11-1

2-2-11. Removal of the Video Control C.B.A.

- 1. Unscrew the 3 screws (R) on the Video Control C.B.A..
- 2. Unlock the 2 locking tabs (S) on the Video Control C.B.A.
- 3. Disconnect the 3 connectors (P6001,6002 and P6003).

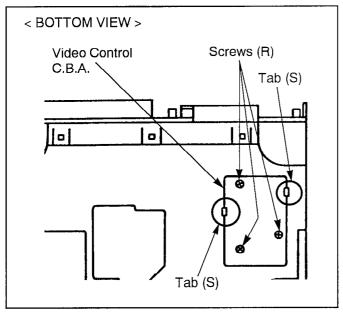


Fig. D12

2-2-12. Removal of the Mechanism Unit

- 1. Unscrew the 3 screws (T) on the Mechanism Unit.
- 2. Carefully pull out the Mechanism Unit from the frame.

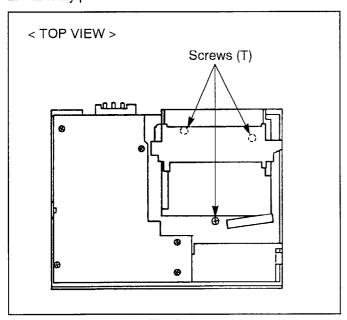


Fig. D13

2-2-13. Removal of the Jog & Shuttle C.B.A.

1. Unscrew the 3 screws (U) on the Front Panel.

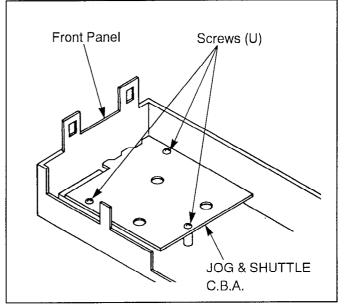


Fig. D14

2-2-14. Removal of the Front Jack C.B.A.

- 1. Unscrew a screw (V) on the frame.
- 2. Disconnect a connector (P6801).

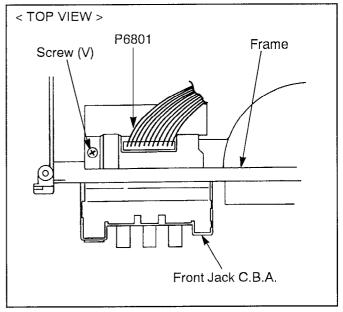


Fig. D15

SECTION 3. ELECTRICAL ADJUSTMENT PROCEDURES

3-1. TEST EQUIPMENT

To perform electrical adjustment the following equipment's are required.

- V.T.V.M. (Vacuum Tube Volt Meter) or D.V.M. (Digital Volt Meter)
- 2. Dual-Trace Oscilloscope (More than 35MHz)

Range: Voltage 0.005 ~ 50 V/div. : Frequency DC ~ 35 MHz

: Probe 10 : 1

- 3. Video Sweep Generator
- 4. Sine Wave Generator
- 5. Video Signal Generator
- 6. Monitor TV
- 7. Alignment Tape (VFM8080HQFP)
- 8. S-VHS/VHS Blank Tape

3-2. How to Read the Adjustment Procedures

(example)

TP	VIDEO OUT
ADJ.	VR30006 (Y/C PACK C.B.A. : A-8)
MODE	REC ⇒ PLAY
INPUT	COLOR BAR
TAPE	VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	1.0 ± 0.05Vp-p

TP: Test Point ADJ.: Variable Resistor

MODE: Mode of VTR when adjustment INPUT: Input signal for adjustment TAPE: Tape for adjustment M.EQ: Measurement equipment SPEC: Specification of adjustment

SERVO SECTION

3-3-1. PG SHIFTER ADJ.

TP	TP2001(MAIN C.B.A.: I-7), VIDEO OUT
ADJ.	VR2001 (MAIN C.B.A. : D-3)
MODE	PLAY
INPUT	COLOR BAR
TAPE	VFM8080HQFP
M. EQ	OSCILLOSCOPE
SPEC	8.5 ± 1.0 H

- 1. Connect the oscilloscope CH 1 to video output connector and CH 2 to TP2001 (H. SW).
- 2. Adjust VR2001 as shown in Fig. E1.

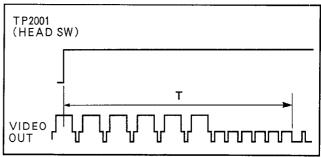


Fig. E1

3-3-2. REV SLOW TRACKING ADJ.

TP	VIDEO OUT
ADJ.	SP : VR2019 (MAIN C.B.A. : B-5), EP : VR2018 (MAIN C.B.A. : B-5)
MODE	REC ⇒ PLAY
INPUT	COLOR BAR
TAPE	BLANK TAPE
M. EQ	MONITOR TV
SPEC	NO APPEAR NOISE BAR

- 1. Connect the Monitor TV to video output connector.
- 2. Place the unit in the still mode on the self recorded (SP mode) portion.
- 3. Adjust VR2019 so that no noise bar appear on the top and bottom portion of the Monitor TV.
- 4. Place the unit in the REV Slow mode on the self recorded (EP mode) portion.
- 5. Adjust VR2018 so that noise bar is minimized.

VIDEO SECTION

3-3-3. EEYLEVEL ADJ.

TP	VIDEO OUT
ADJ.	VR3601 (RF AMP C.B.A.: F-1)
MODE	STOP
INPUT	COLOR BAR
TAPE	
M. EQ	OSCILLOSCOPE
SPEC	1.0 ± 0.05 Vp-p

Note

Must be heat up more than 10 min. before perform this adjustment.

- 1. Connect the oscilloscope to video output connector.
- 2. Adjust VR3601 so that Y level is 1.0V \pm 0.05Vp-p. (Refer to Fig. E2)

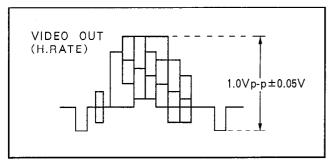


Fig. E2

3-3-4. S-VHS REC CURRENT ADJ.

TP	TP507 (HEAD AMP C.B.A. :B-2 (HOT)), TP508 (HEAD AMP C.B.A. : B-1 (GND))
ADJ.	REC Y: VR3006 (MAIN C.B.A, : F-4), REC C: VR3003 (MAIN C.B.A. : G-4)
MODE	REC
INPUT	COLOR BAR
TAPE	S-VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	Y : 140 ± 5mVp-p C : 40 ± 2mVp-p

- 1. Connect the oscilloscope CH 1 to TP507 and GND to TP508.
- 2. Turn VR3006 to reduce luminance component.
- 3. Adjust VR3003 so that the cyan level is $40\text{mV} \pm 5\text{mVp-p}$. (Refer to Fig. E3)
- 3. Adjust VR3006 so that the sync level is 140mV \pm 5mVp-p. (Refer to Fig. E4)

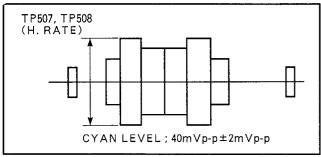


Fig. E3

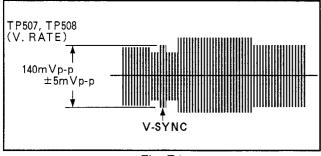


Fig. E4

3-3-5. VHS REC CURRENT ADJ.

ТР	TP507 (HEAD AMP C.B.A. :B-2 (HOT)), TP508 (HEAD AMP C.B.A. : B-1 (GND))
ADJ.	VR3007 (MAIN C.B.A. : F-4)
MODE	REC
INPUT	COLOR BAR
TAPE	VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	140 ± 5mVp-p

- 1. Connect the oscilloscope CH 1 to TP507 and CH 2 to TP508.
- 2. Adjust VR3007 so that the sync level is $140 \text{mV} \pm 5 \text{mVp-p}$. (Refer to Fig. E5)

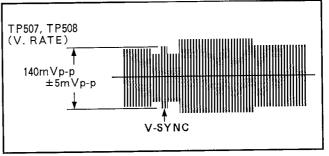


Fig. E5

3-3-6. VHS Y PB LEVEL ADJ.

TP	VIDEO OUT
ADJ.	VR30006 (Y/C PACK : A-8)
MODE	REC ⇒ PLAY
INPUT	COLOR BAR
TAPE	VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	1.0 ± 0.05Vp-p

- 1. Connect the oscilloscope to video output connector with 75 ohm terminated.
- 2. Adjust VR30006 so that Y level is 1.0V \pm 0.05Vp-p. (Refer to Fig. E6)

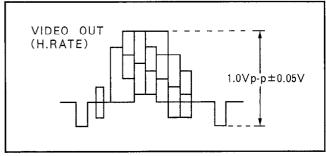


Fig. E6

3-3-7. S-VHS Y PB LEVEL ADJ.

	<u> </u>
TP	VIDEO OUT
ADJ.	VR30005 (Y/C PACK : A-7)
MODE	REC ⇒ PLAY
INPUT	COLOR BAR
TAPE	S-VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	1.0 ± 0.05Vp-p

- 1. Connect the oscilloscope to video output connector with 75 ohm terminated.
- 2. Adjust VR30005 so that Y level is 1.0V \pm 0.05Vp-p. (Refer to Fig. E7)

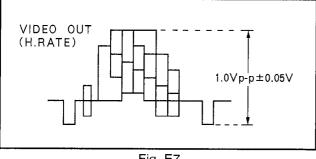


Fig. E7

3-3-8. COS EQ PEAK ADJ.

TP	CP3005 (MAIN C.B.A. : D-5)
ADJ.	VR3002 (MAIN C.B.A. : H-6)
MODE	STOP
INPUT	SWEEP SIGNAL (20mVp-p)
TAPE	S-VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	7.2 ± 0.2Vp-p

- 1. Connect the Service Circuit to CP3005 and supply the sweep signal.
- Set the output of sweep generator to 20mVp-p with 7.2Hz marker.
- 3. Turn VR3001 to full counter-clockwise.
- 4. Adjust VR3002 so that 7.2Hz is maximized. (Refer to Fig. E9)

Note

Must be perform the S-VHS Frequency Response Adjustment, after this adjustment.

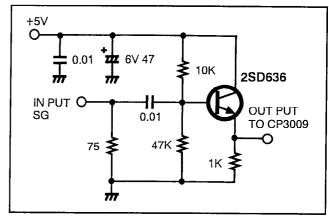


Fig. E8

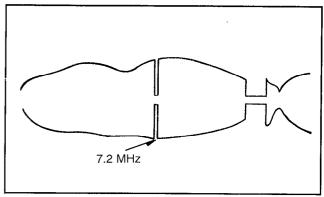
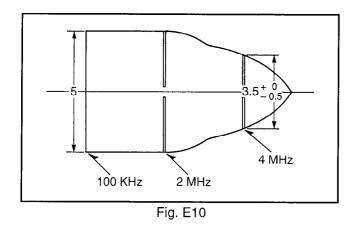


Fig. E9

3-3-9. S-VHS FREQUENCY RESPONSE ADJ.

TP	VIDEO OUT
ADJ.	VR3001 (MAIN C.B.A. : H-6)
MODE	REC ⇒ PLAY
INPUT	30% SWEEP SIGNAL
TAPE	S-VHS BLANK TAPE
M. EQ	OSCILLOSCOPE
SPEC	100KHz: 4MHz = 5: 3.5 + 0 - 0.5

- 1. Connect the oscilloscope to video output connector.
- 2. Playback the just recorded portion.
- 3. Adjust VR3001 so that the sweep signal is 100 KHz : 4MHz = 5 : 3.5 + 0.5



AUDIO SECTION

3-3-10. EE LEVEL ADJ.

TP	AUDIO OUT
ADJ.	CH 1 : VR4804 (MAIN C.B.A : H-4) , CH 2 : VR4803 (MAIN C.B.A. : I-3)
MODE	STOP
INPUT	1 Hz, -10dB SINE WAVE
TAPE	
M. EQ	V.T.V.M.
SPEC	-8.0 \pm 0.5 dBV

- 1. Set the REC LEVEL VR is center position [5].
- 2. Adjust VR4804 so that CH 1 (L) EE level is -8.0 dBV \pm 0.5 dBV and VR4803 so that CH 2 (R)EE level is -8.0 dBV \pm 0.5 dBV.

3-3-11. LEVEL METER ADJ.

TP	AUDIO OUT
ADJ.	VR6501 (TIMER C.B.A, : C-2)
MODE	STOP
INPUT	1 KHz, -10dB
TAPE	
M. EQ	FRONT PANEL LEVEL METER
SPEC	0 dB INDICATOR JUST LIGHT UP

- 1. Set the REC LEVEL VR is center position [5].
- 2. Adjust VR6501 so that 0 dB indicator just light up on the front panel level meter.

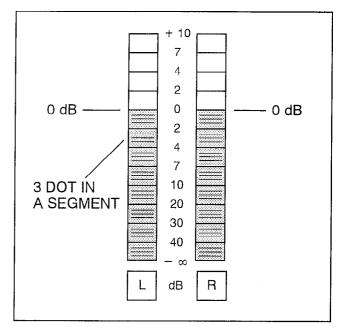


Fig. E11

3-3-12. NORMAL BIAS CURRENT ADJ.

TP	TP4801 (MAIN C.B.A. : F-3 (HOT)), TP4802 (MAIN C.B.A. : F-3 (GND))
ADJ.	VR4802 (MAIN C.B.A. F-2)
MODE	REC
INPUT	
TAPE	BLANK TAPE
M. EQ	V.T.V.M.
SPEC	3.0 ± 0.1 mVrms

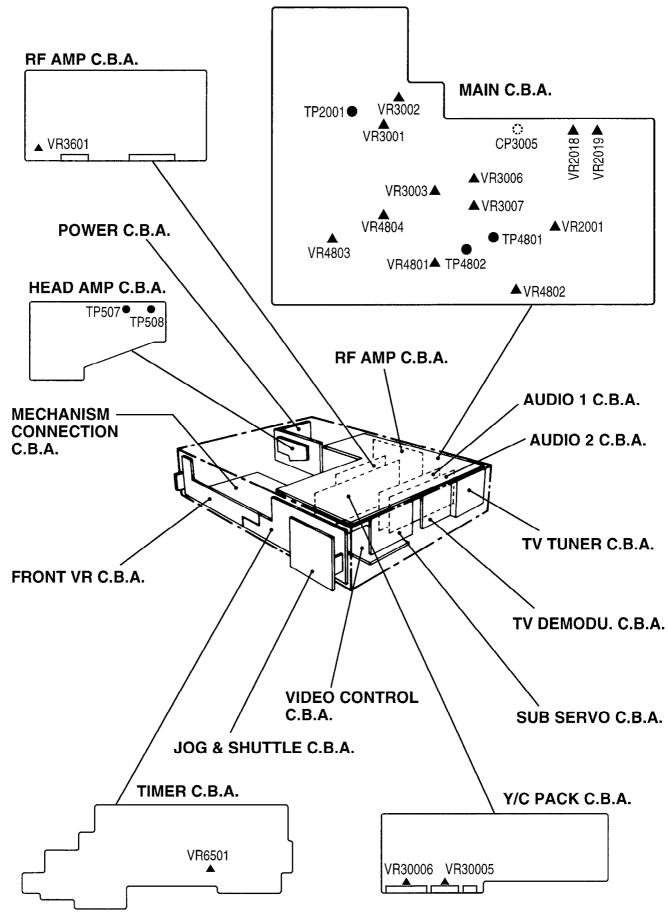
- 1. Connect the V.T.V.M. to TP4801 and TP4802.
- 2. Adjust VR4802 so that out put level is 3.0 \pm 0.1 mVrms.

3-3-13. NORMAL PB LEVEL ADJ.

ТР	AUDIO OUT
ADJ.	VR4801 (MAIN C.B.A. G-3)
MODE	REC ⇒ PLAY
INPUT	1 KHz, -10dB
TAPE	BLANK TAPE
M. EQ	V.T.V.M.
SPEC	-8.0 ± 2dB

- 1. Connect the V.T.V.M. to the audio output connector.
- 2. Playback the just recorded portion.
- 3. Adjust VR4801 so that output level is -8.0 \pm 2dB.

CIRCUIT BOARD LAYOUT



SECTION 4. ABBREVIATIONS & BLOCK DIAGRAMS 4-1. ABBREVIATIONS

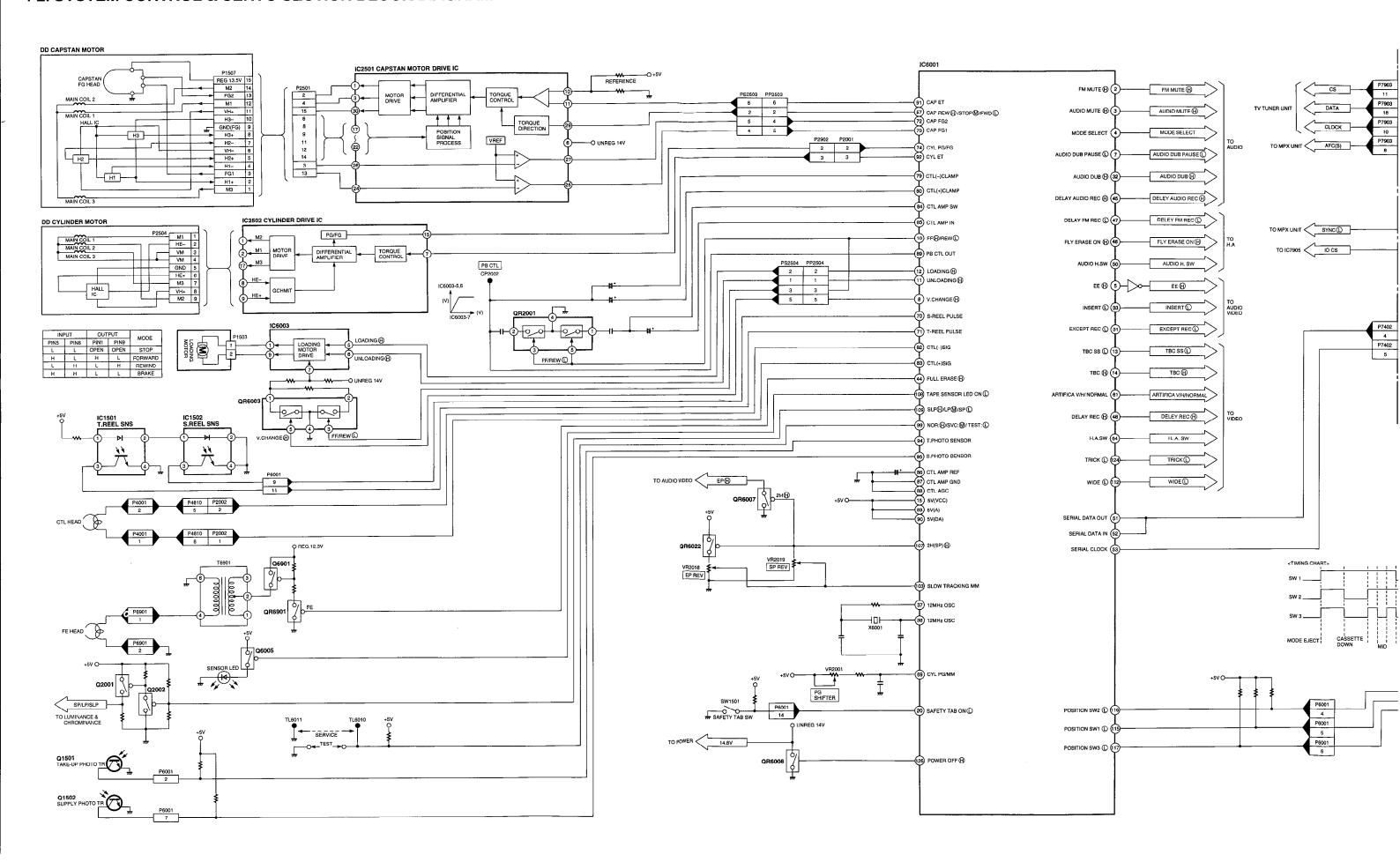
443NT [L]	4.43 NTSC ①	BIL. [H]	BILINGUAL (f)
A. COMP	AUDIO COMPONENT SIGNAL	BIL/M1[L]	BILINGUAL ①
A. COMPO	AUDIO COMPONENT SIGNAL	BS CLOCK	BS CLOCK
A. D.P [L]	AUDIO DUBBING PAUSE ①	BS DATA	BS DATA
A. D/L [L]	AUDIO DUBBING PAUSE ①	BS LCH IN	BS L CHANNEL INPUT
A. DEF [S]	AUDIO DEFEAT	BS MIX [H]	BS MIX (A)
A.DEF [S] [L]	AUDIO DEFEAT	BS MON [H]	BS MONITOR (H)
A. DUB P [L]	AUDIO DUBBING PAUSE (L)	BS MONI [H]	BS MONITOR (A)
A. DUB [H]	AUDIO DUBBING ®	BS RCH IN	BS R CHANNEL INPUT
A. ERASE	AUDIO ERASE	BS VIDEO	BS VIDEO SIGNAL
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS VIDEO/BS1	BS VIDEO SIGNAL
A. HEAD [R]	AUDIO HEAD (REC)	BS [H]	BS (H)
• •	AUDIO HEAD (NEC)	BS. LEVEL	BS LEVEL
A. HEAD [W]		BS. M [H]	BS MONITOR (f)
A. IN [L]	AUDIO INPUT (L)	1	_
A. IN [R]	AUDIO INPUT (R)	BS/VTR [H]	BS/VTR (f)
A. MUT [H]	AUDIO MUTE (f)	BUS CLK	BUS CLOCK
A. MUTE [H]	AUDIO MUTE (f)	BUS LSN	BUS LISTEN
A. OUT [L]	AUDIO OUTPUT (L)	BUS TLK	BUSTALK
A. OUT [R]	AUDIO OUTPUT (R)	BUZZER	BUZZER
A. RF OUT	AUDIO RF SIGNAL OUTPUT	CAP EC	CAPSTAN TORQUE CONTROL
A/VS/S. DATA	AV SW/SERIAL DATA	CAP M GND	CAPSTAN MOTOR GND
AC ONLINE	AC ONLINE	CAP. ET	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE ⊕	CAP. FG1	CAPSTAN FG1 PULSE
AFC S C	AFC S CURVE	CAP. FG2	CAPSTAN FG2 PULSE
AFC [S]	AFC S CURVE	CAS. SW	CASSETTE SW
AFC. DEF	AFC DEFEAT	CCN	PLAYBACK CONTROL SIGNAL (~)
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	СНМ	CONTROL SIGNAL (+)
ART. V. MM	ARTIFICIAL VERTICAL SYNC	СНР	CONTROL SIGNAL (-)
	SIGNAL MONO MULTI	CINEM [L]	CINEMA (L)
ART. V/H/N	ARTIFICIAL VERTICAL SYNC	CINEMA [L]	CINEMA ①
7	SIGNAL⊕/ NORMAL	CINEMA/MIX	CINEMA/MIX
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CKL	RATCH LOCK
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKS	SHIFT LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CL	CLOCK
AUDIO IN [R]	AUDIO INPUT (R)	CLK	CLOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK (C.G)	CLOCK
	` '	CLOCK, IN	CLOCK INPUT
AUDIO OUT [R]	AUDIO OUTPUT (R)	CLP	CLAMP
AUDIO SELECT [H]	AUDIO SELECT (H)	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AUDIO. L	AUDIO (L)		· · · · · · · · · · · · · · · · · · ·
AUDIO. R	AUDIO (R)	COLOR [H]	COLOUR ®
AV CNT	AV CONTROL	CONV	CONVERTOR
AV CTL	AV CONTROL	CS CTI CND	CHIP SELECT
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CTL GND	CONTROL LIEAD ()
AV. C.M.	AV CONTROL MODE	CTL HEAD [+]	CONTROL HEAD (+)
AVCNT/METER. R	AV CONTROL/LEVEL METER(R)	CTL HEAD [-]	CONTROL HEAD (-)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL[+]	CONTROL HEAD (+)
B MODE. H	B MODE ⊕	CTL[-]	CONTROL HEAD (-)
B.G.P	BURST GATE PULSE	CUE BIAS	CUE BIAS
BACKUP 5V	BACK UP 5V	CURRENT LIM	CURRENT LIMMITER
BAND. U.E.	BAND U	CYL ET	CYLINDER TORQUE CONTROL
BANDVL. D	BAND VL	CYL GND	CYLINDER GND
BI/MI [L]	BILINGUAL/MIX (L)	D.F.M. REC [H]	DELAYED FM RECORDING 🕀
BIL	BILINGUAL	D. FM REC [L]	DELAYED FM RECORDING (L)
BIL [L]	BILINGUAL (L)	D. GND	DIGITAL GND

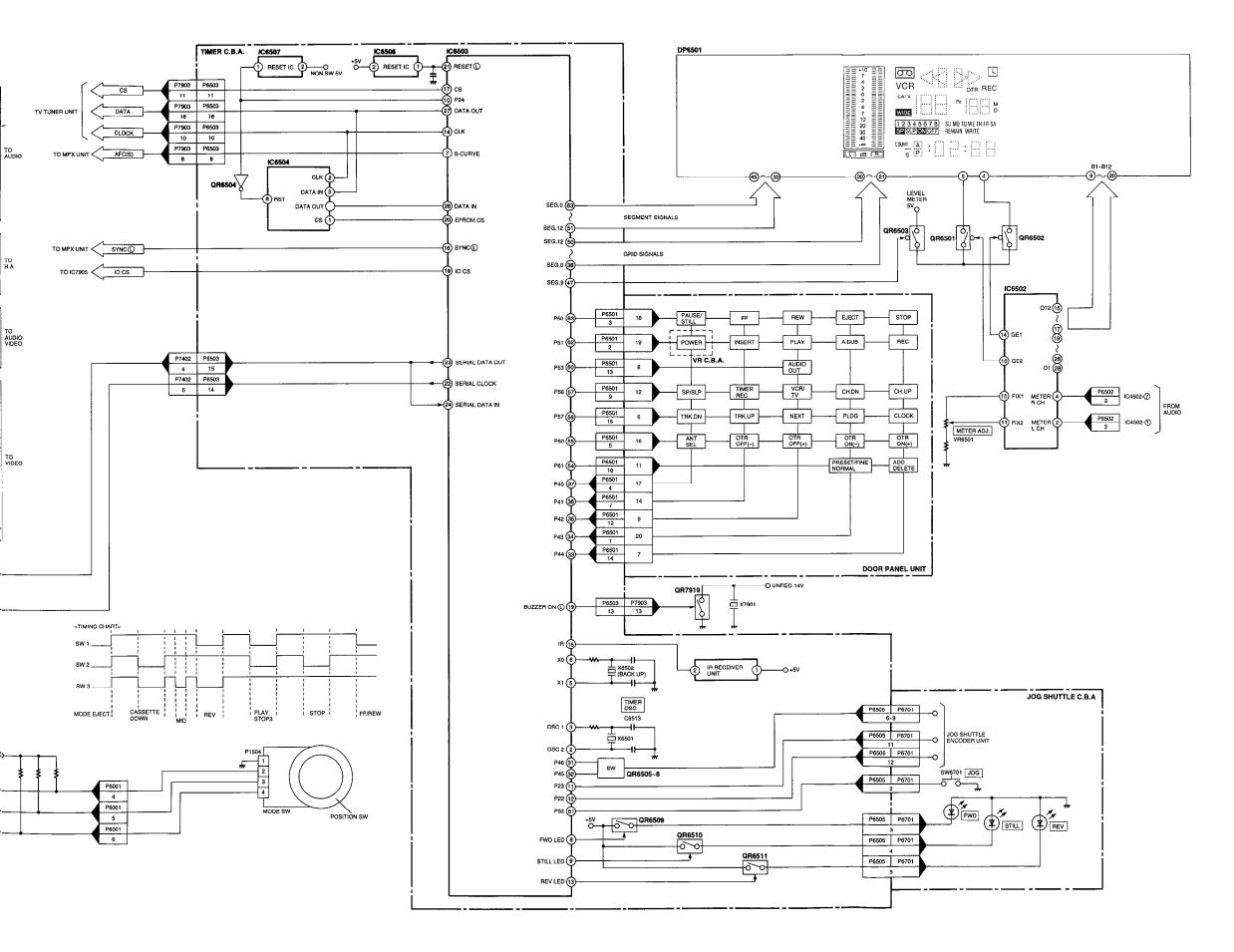
D. REC [H]	DELAYED RECORDING ⊕	H.SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <r></r>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <l></l>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING (B)	H. POUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	∥H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEDA PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING ®	HEATER[+]	HEATER(+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER[-]	HEATER(-)
EC	ERROR TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL	HTR[+]	HEATER(+)
	REFERENCE VOLTAGE	HTR[-]	HEATER(-)
EDT TRIG [L]	EDITTRIGGER (L)	IRFE	REFERENCE CURRENT
EDIT [H]	EDIT ®	ICL	CONTROLAGCCIRCUIT
EE [H]	I EE A	IF	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE (A) /INSERT (M)	IN SELA 1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/V/TRICK PLAY	IN SELA 2	INPUT SELECT AT POSITION
EJECT. PO	EJECT POSITION	INSELA3	INPUT SELECT AS POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch (L)
ENV. SEL	ENVELOPE SELECT		INSERT®
ENVE.OUT	ENVELOPE OUTPUT	INSELA1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSELA2	INPUT SELECT AT FOSITION
ENVSELECT	ENVELOPE SELECT	INSERT	I INSERT
EP [H]	LP®	INSERT[H]	INSERT (A)
EP/LP [H]		IO CS	INPUT/OUTPUT CHIP SELECT
EP/LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP (F)	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	
FF/REW[L]	FAST FORWARD/REWIND (L)	JST. CLCK	JSB (f) JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLCK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST.CLOCK	JUST CLOCK
FILTER ADJ.	FILTERADJUSTMENT	il. <u>-</u>	
FLY ERASE [H]	FLYING ERASE HEAD ON (A)	L. OUT L. CH [H]	LchOUTPUT Lch (f)
FLY ON [H]	FLYING ERASE HEAD ON (H)	L. CH [L]	Lch (C)
FLY.E[H]	FLYING ERASE HEAD ON (A)	L. CH [L] LED (MAIN)	~
FM MUT [H]	FM AUDIO MUTE (B)	LED (MAIN)	LED (MAIN)
FM MUTE [H]	FM AUDIO MUTE (F)	'	LED (STEREO)
FM OUT [L]	FM OUTPUT (L)	LED (SUB)	LED (SUB)
FM OUT [R]	FM OUTPUT (R)		LED SERIAL CLOCK
FM PACK OUT [L]	· ·	LEDCKS	LED SERIAL CLOCK
	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FUL. E [H]	FS CLOCK FULL ERASE HEAD ON (F)	LINE IN 2 [R]	LINE INPUT 2 (R)
		LINE IN V	LINE INPUT VIDEO
FULL E 10V	FULL ERASE HEAD ON (F)	LINE IN [L]	LINE INPUT (L)
FULL, E. 12V	FULL ERASE 12V	LINE IN [R]	LINE INPUT (R)
GND [A]	GND (ANALOGUE)	LINE OUT [L]	LINE OUTPUT (L)
GND [TU]	GND (TUNER)	LINE OUT [R]	LINE OUTPUT (R)
GND/N. SW. 12V	GND/NON SW 12V	LP [H]	LP (H)

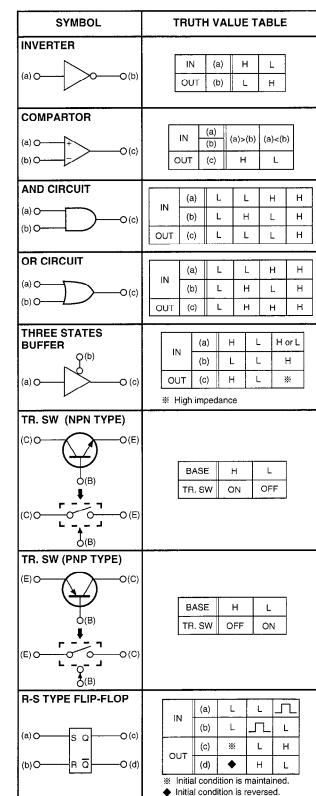
LPTRI [L]	LP TRICK PLAY (L)	P. OFF [L]	POWER OFF ①
1	-		PAL (f)
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	_
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL® /NTSC ®
M REG	MOTOR REGULATOR	PB ADJ. OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN ©	PB. H	PLAYBACK (H)
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMUM INPUT	PHOTSN + B	PHOTO SENSOR + B
MES [H]	MESECAM (B)	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM (f)	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM (L)	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R.LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW (H)
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF (L)
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL (H)
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX 🕀 /BILINGUAL	R. CH [H]	Rch ⊕
MIC GND	MIC GND	R. CH [L]	Rch (L)
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE (B) /STOP (M) /FORWARD (L)
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch (H)
MIC [H]	MIC ®	REC 12V	RECORDING 12V
MIX [H]	MIX (A)	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX (A) /CINEMA SOUND (L)	REC H	RECORDING (A)
MIX/ CINE	MIX (f) /CINEMA SOUND (L)	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX (1) /CINEMA SOUND (1)	REC OUT [L]	RECORDING OUTPUT (L)
MN. H/M. L	MONAURAL (A) /MAIN (L)	REC START	RECORDING START
MN. H/MAI. L	MONAURAL (B) /MAIN (L)	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM (L)	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SEE	AUDIO MODE SW	RECY	RECORDING LUMINANCE SIGNAL
MODE, S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING (B)
MODE, S. OUT	AUDIO MODE SELECT NIFOT	REC.C	RECORDING CHROMINANCE SIGNAL
	MONAURAL ®	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]	_		RECORDING/EE CONTROL
MONO [H]/MAIN [L]	MONAURAL (B) /MAIN (L)	REC/EE CTL	· ·
MONO2 [L]	MONAURAL 2 (L)	REEL-T	REEL PULSE(TAKE-UP)
MONO2/MESE[FM(L)]		REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING (L)	REV M F/R	REVIEW MOTOR
N. SW 12V	NON SW 12V		FORWARD/REVERSE
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM ©	REV MOTOR F/R	REVIEW MOTOR
NOL [H]	PAL (H) /4.43 NTSC (M) /3.58 NTSC (L)		FORWARD/REVERSE
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY 🕕 📗	REV MOTOR V1	REVIEW MOTOR V1
NORMAL [H]	NORMAL (f)	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC L	REV MOTOR [-]	REVIEW MOTOR (-)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF.CHROMA	RF CHROMINANCE SIGNAL
P-OFF [H]	POWER OFF (H)	RF OUT	RF OUTPUT
P-OFF [L]	POWER OFF ①	RFY	RF LUMINANCE SIGNAL
P. FAIL	POWER FAILURE DETECT	ŔF. Y. IN	RF LUMINANCE SIGNAL INPUT
P. OFF [H]	POWER OFF (H)	RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT
			L

ROTAR. SW	ROTARY SW	T. BUSCLK	TIMER BUS CLOCK
ROTARY	ROTARY SW	T. BUSLSN	TIMER BUS LISTEN
RST	RESET	T. BUSTLK	TIMER BUS TALK
RST [L]	RESET ①	T. END [L]	TAPE END (L)
Rch/INST	Rch/INSERT	Т. РНОТО	TAKE-UP PHOTO TRANSISTOR
SIN	SERIAL DATA INPUT	TAPE END [L]	TAPE END ①
SOUT	SERIAL DATA OUTPUT	TAPE END [L]/CAM	TAPE END (L) /CAMERA PAUSE
S-PHOTO	SUPPLY PHOTO TRANSISTOR	TEST	TEST MODE
S-RL. PLS	SUPPLY REEL PULSE	TPZ	TRAPEZOIDAL WAVE CIRCUIT
S. CLK	SERIAL CLOCK	TRIC [L]	TRICK PLAY (L)
S. CLK/AV	SERIAL CLOCK/AV	TRICK [L]	TRICK PLAY (L)
S. DATA	SERIAL DATA	TRK. ENV	AUDIO TRACKING ENVEL OPE DETECT
S. DATA/A	SERIAL DATA / AUDIO	TU. AUDIO	TUNER AUDIO
S. PHOTO	SUPPLY PHOTO TRANSISTOR	TU. GND	TUNER GND
S.TAB [L]	SAFETY TAB SW ON (L)	TU. V. IN	TUNER VIDEO SIGNAL INPUT
S/P/N	SECAM/PAL/NTSC	TU. VIDEO	TUNER VIDEO
SC IN	SERIAL CLOCK INPUT	TUN NOR IN	TUNER NORMAL INPUT
SC OUT	SERIAL CLOCK OUTPUT	TUNR	TUNER AUDIO (R)
SCK SELECT	SERIAL CLOCK SELECT	TUN. AUDIO IN	TUNER AUDIO INPUT
SEL OUT [L]	SELECT OUTPUT (L)	TUNER 12V	TUNER 12V
SEL OUT [R]	SELECT OUTPUT (R)	TUNER L	TUNER AUDIO (L)
SHUTTLE 1	SHUTTLE 1	TUNER V IN	TUNER VIDEO SIGNAL INPUT
SIF	SOUND INTERMEDIATE FREQUENCY	TUNER [L]	TUNER AUDIO (L)
SLMUT [H]	INPUT SELECT MUTE (B)	TUNER [N]	TUNER AUDIO (NORMAL)
SLNID [+]	SOLENOID (+)	TUNER [R]	TUNER AUDIO (NORMAL)
7 7	· · ·		
SLNID [-] SLW TR. MM	SOLENOID (-) SLOW TRACKING MONO MULTI	TUNER. 12	TUNER 12V
		TUOFF [H]	TUNER OFF (H)
SLW TR. REF	SLOW TRACKING REFERENCE	TV. AUDIO	TV AUDIO
CVIC OVID	VOLTAGE	TV/VTR	TV/VTR
SNS. GND	SENSOR GND	TXTON [L]	TEXT ON ()
SOFT [H]	SOFT TAPE PLAY (1)	U. REG45V	UNREGULATOR 45V
SOFT [H]/NORMAL	SOFT TAPE PLAY (I) /NORMAL (II)	UNREG	UNREGULATOR
SOLENOID ON [L]	SOLENOID ON (UNREG 19V	UNREGULATOR 19V
SP [H]	SP (B	V. REF	REFERENCE VOLTAGE
SP/L/SLP	SP/LP SLOW/STILL/STOP (L)	V. EE [H]	VIDEO EE (F)
SSS [L]		V. EE [L]	VIDEO EE ©
STEREO LED	STEREO LED	VCO REF	RERERENCE OSCILLATER
STEREO [H]	STEREO (I)	VD. IN	VIDEO SIGNAL INPUT
STEREO [L]	STEREO (L)	VD. OUT	VIDEO SIGNAL OUTPUT
STOP. PO	STOP POSITION	VIDEO EE [L]	VIDEO EE ©
STOP/5V	STOP POSITION/5V	VIDEO IN	VIDEO SIGNAL INPUT
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT	VIDEO OUT	VIDEO SIGNAL OUTPUT
STOP1/PAL: ST	STOP 1 POSITION/PAL	VM	MOTOR VOLTAGE
STOP2. PO	STOP 2 POSITION	VM DOWN [L]	MOTOR VOLTAGE DOWN (L)
STOP2/S-TAB	STOP POSITION/SAFETY TAB SW	VSS	VERTICAL SYNC SIGNAL
STREO [H]	STEREO (H)	VTR [H]	VTR (f)
SUB BIAS	SUB BIAS	VTR. 12V	VTR 12V
SUB. SW	SUB SW	XIN	OSCILLATOR INPUT
SVHS CAS [L]	S-VHS CASSETTE (L)	X OUT	OSCILLATOR OUTPUT
SW. 5. DET	SW 5V DETECT		
SYNC [L]	SYNC (L)		
SYSCON 5V	SYSTEM CONTROL 5V		
SYSTEM	SYSTEM SW		
T-PHOTO	TAKE-UP PHOTO TRANSISTOR		
T-RL. PLS	TAKE-UP REEL PULSE		

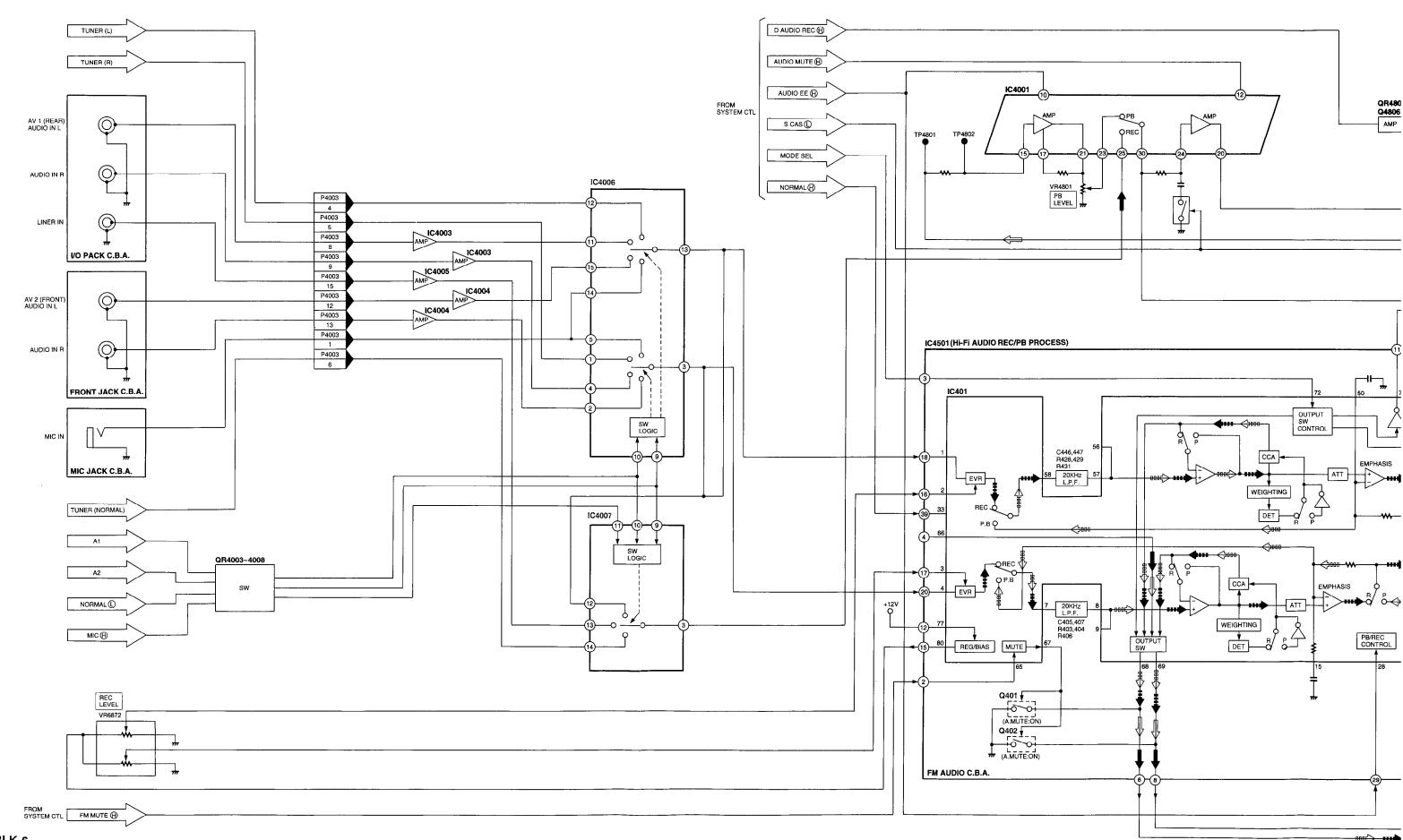
4-2. SYSTEM CONTROL & SERVO SECTION BLOCK DIAGRAM

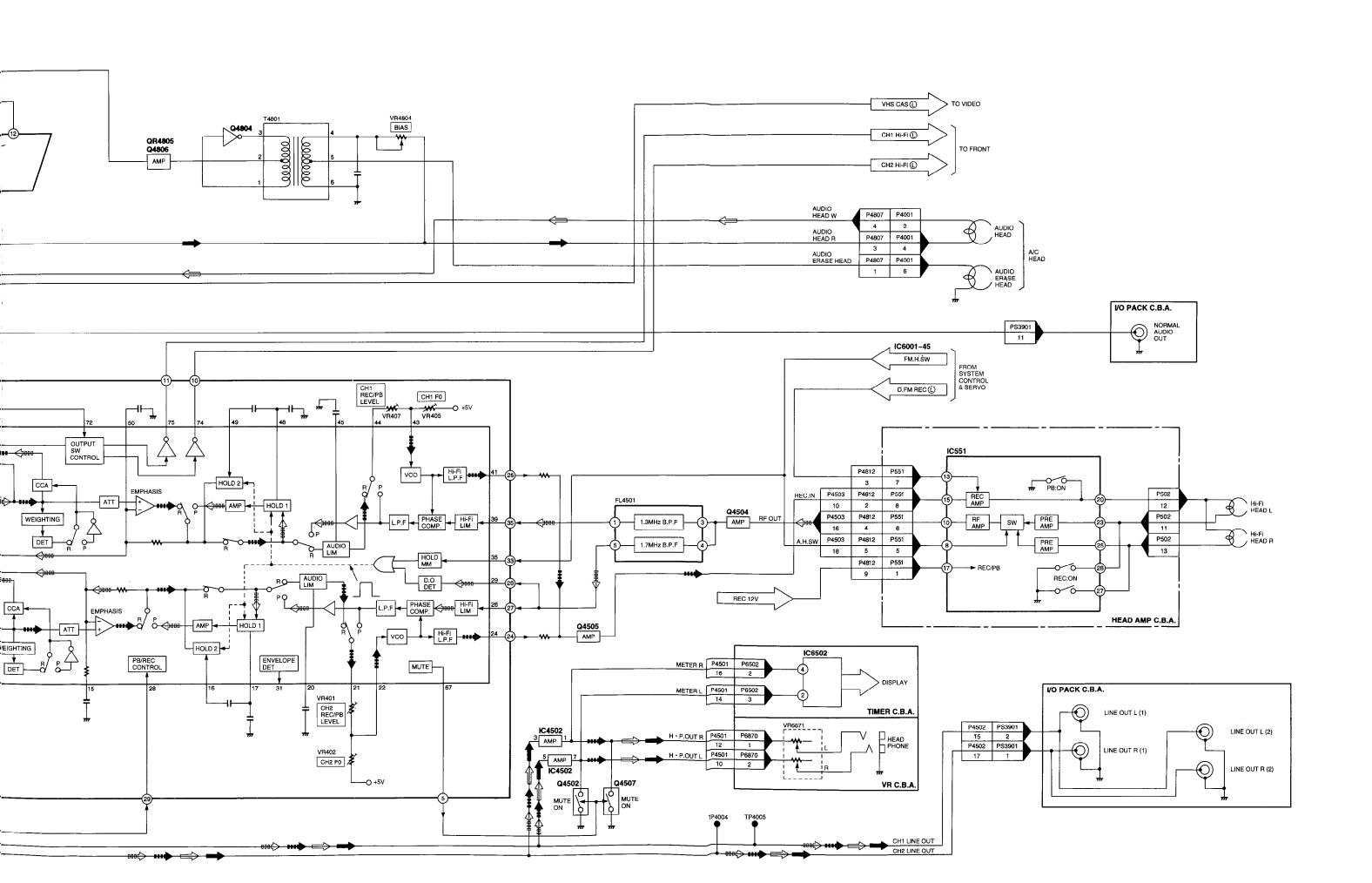




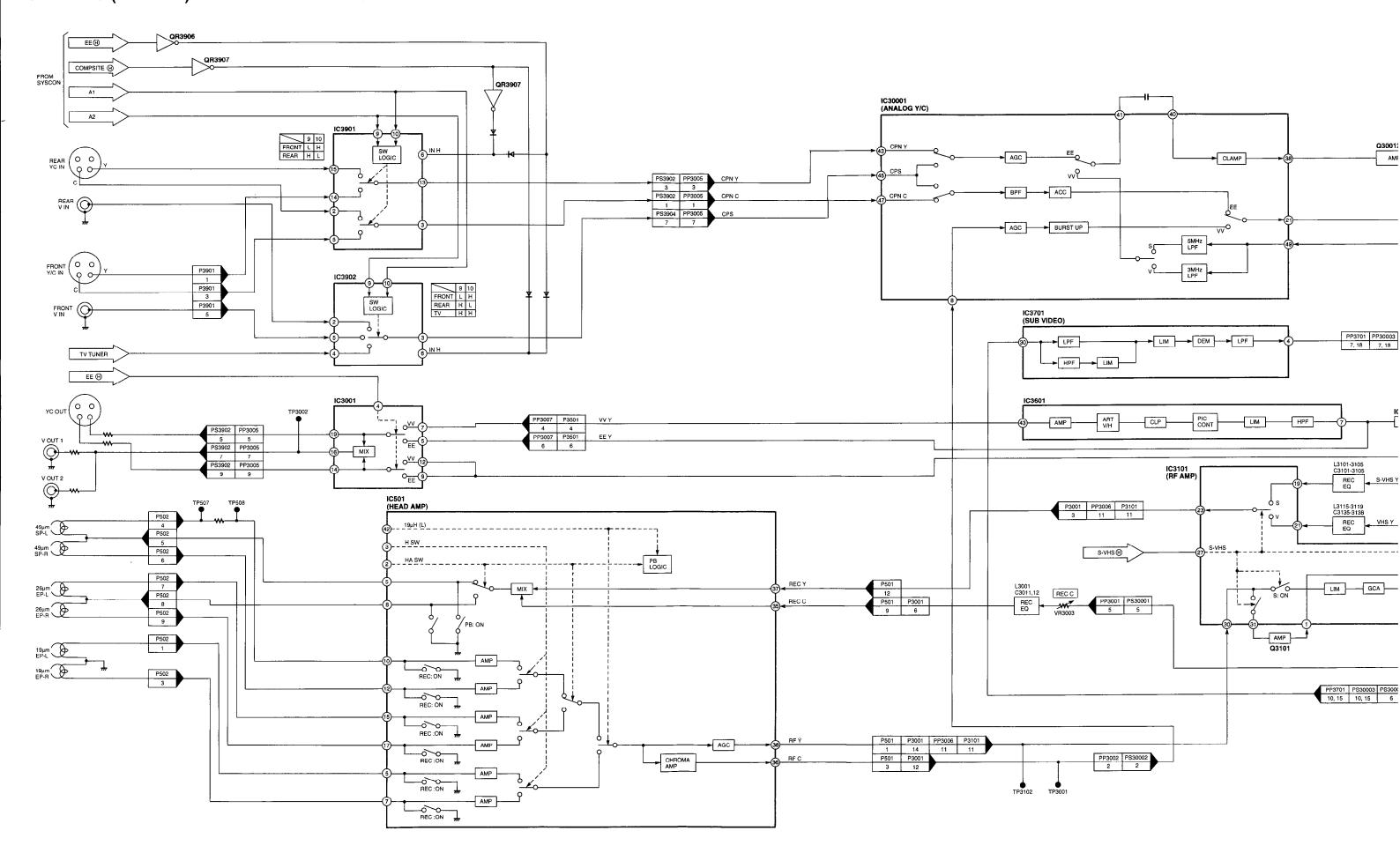


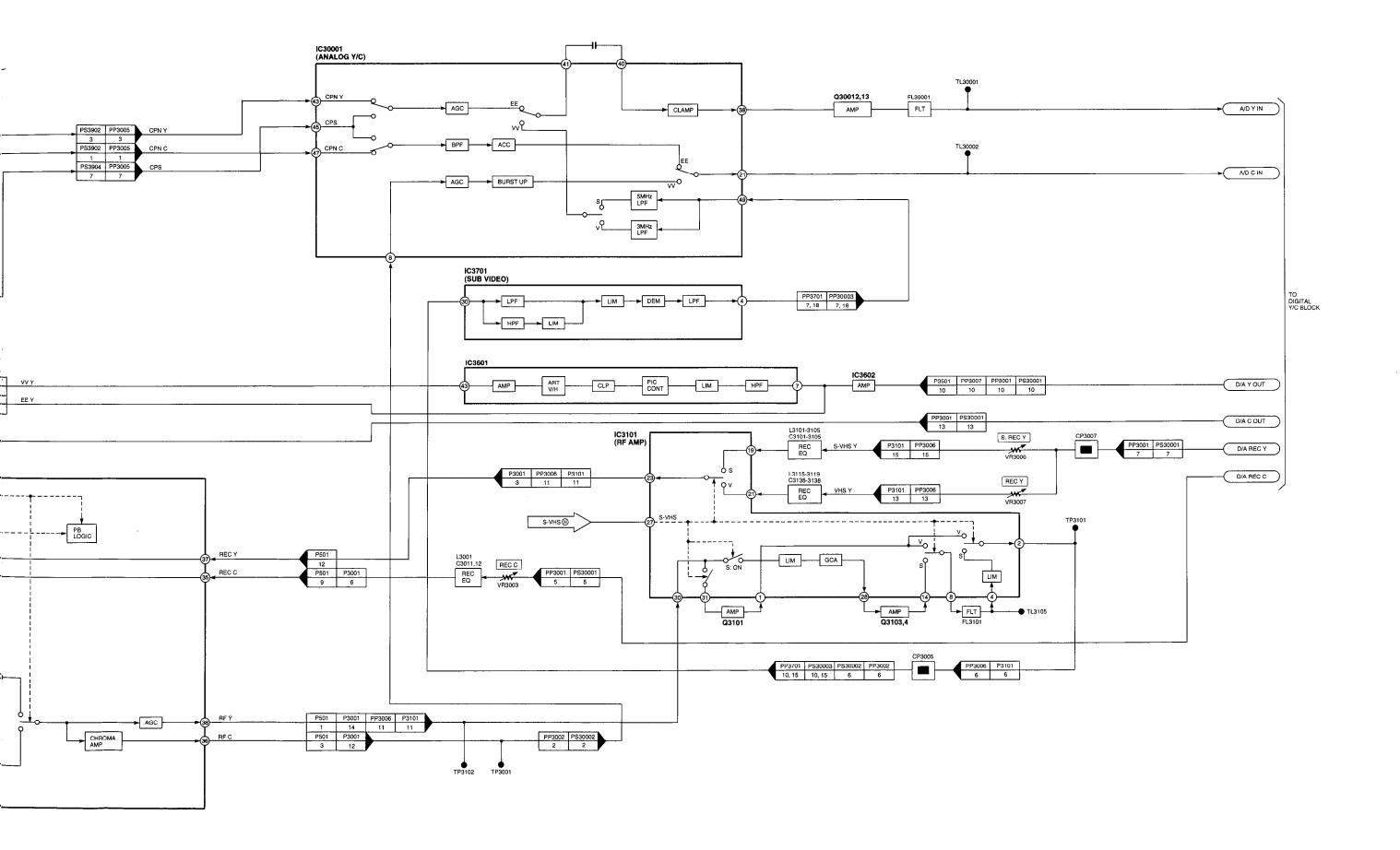
4-3. AUDIO SECTION BLOCK DIAGRAM



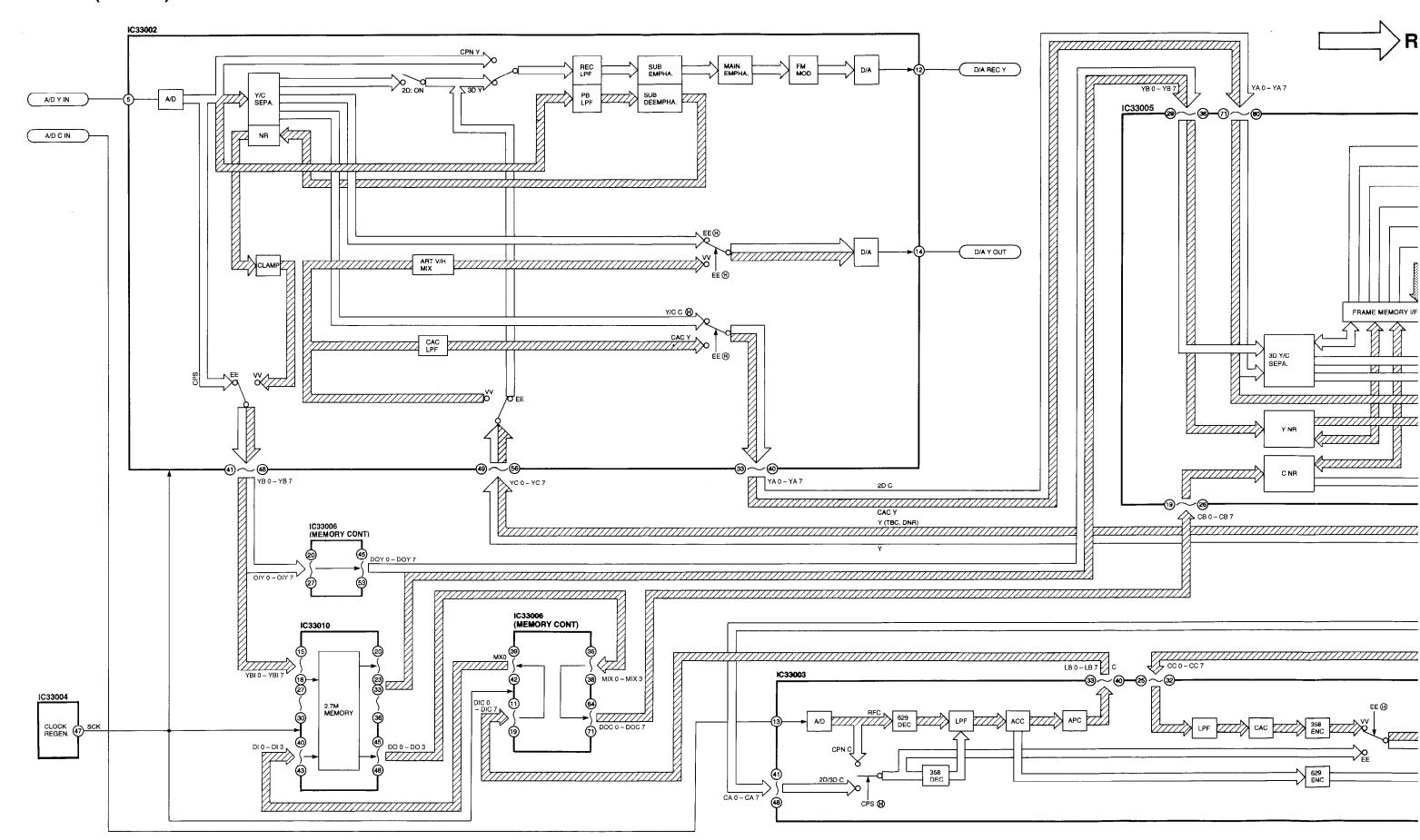


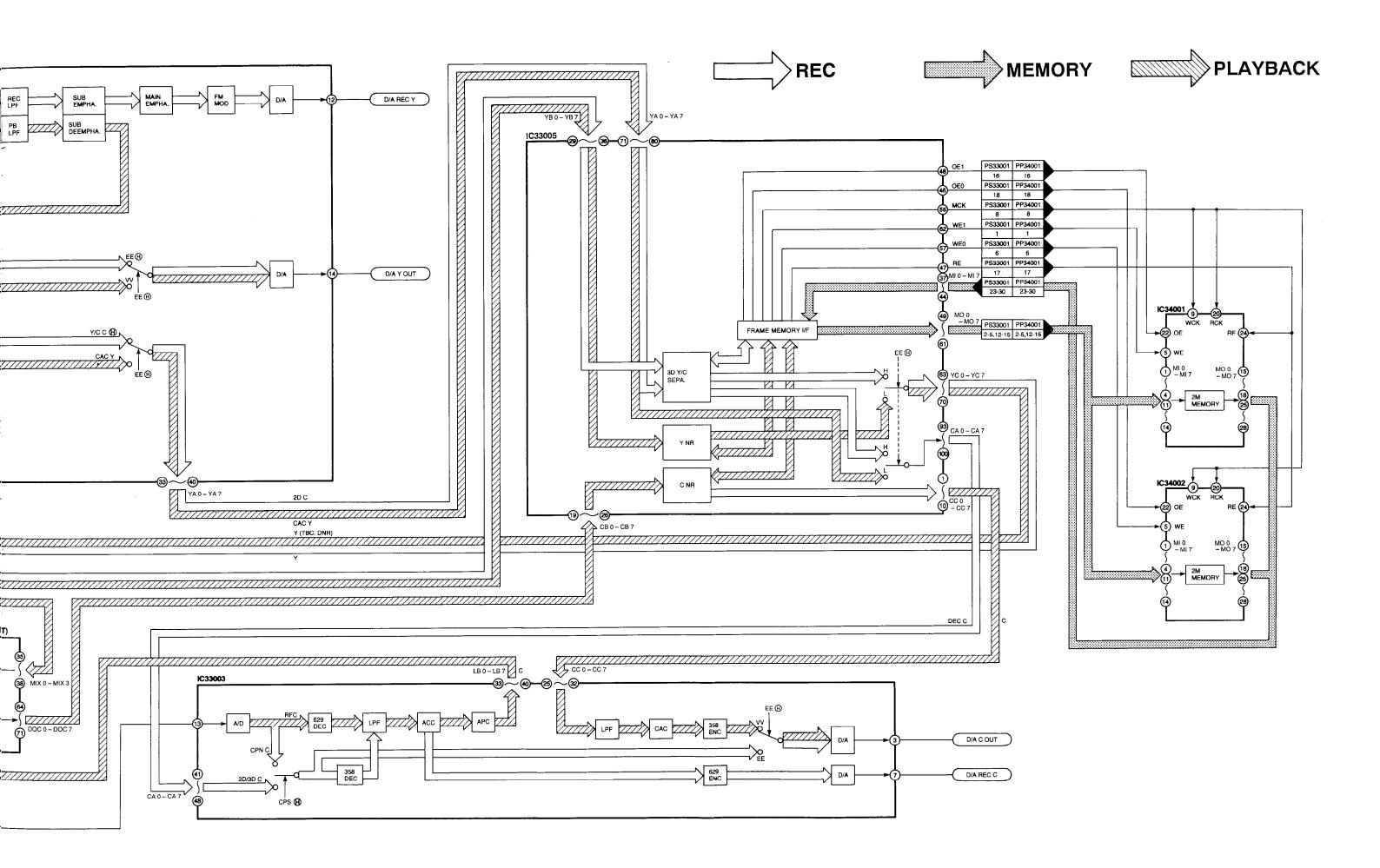
4-4. VIDEO (ANALOG) SECTION BLOCK DIAGRAM



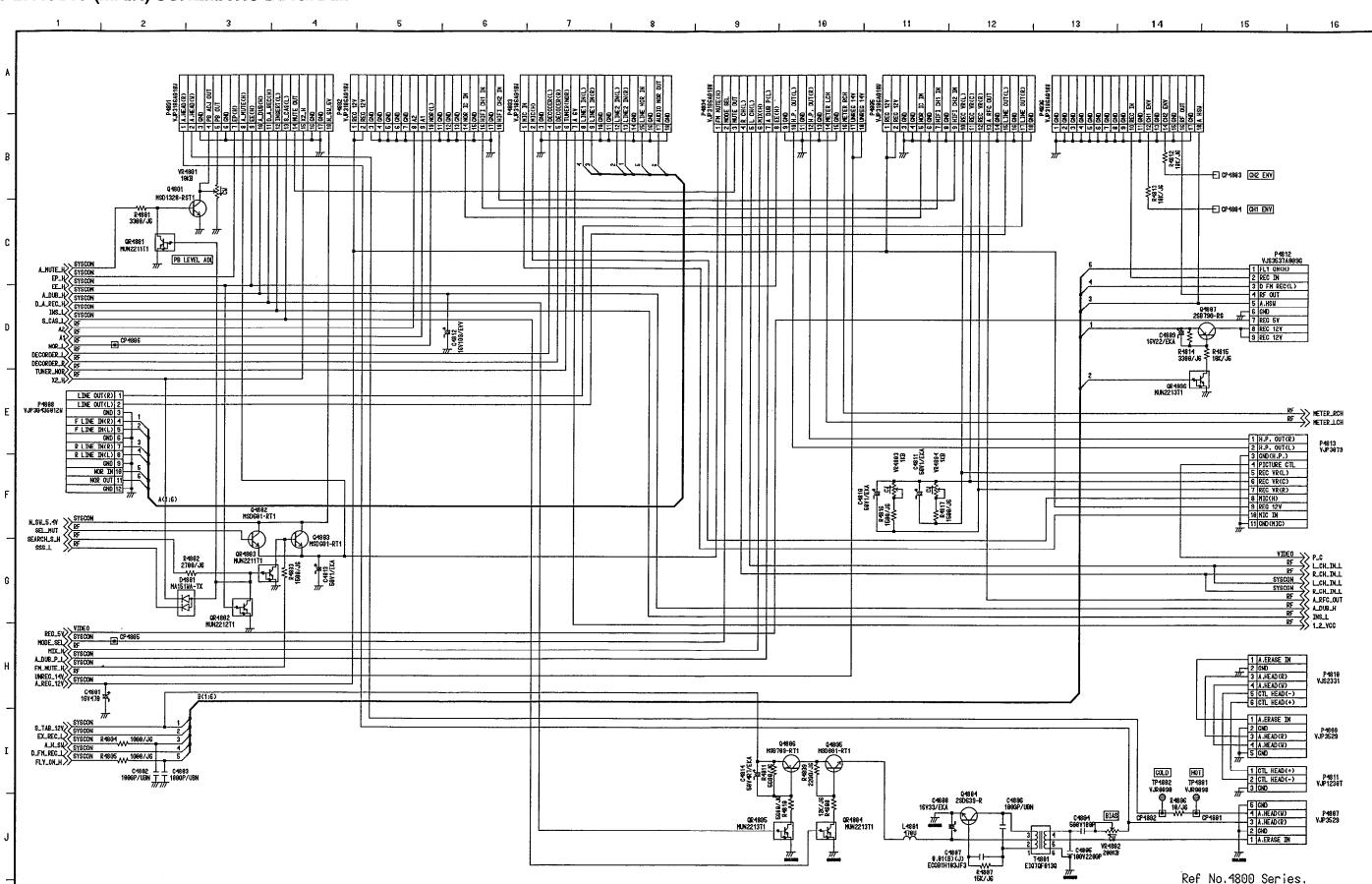


4-5. VIDEO (DIGITAL) SECTION BLOCK DIAGRAM

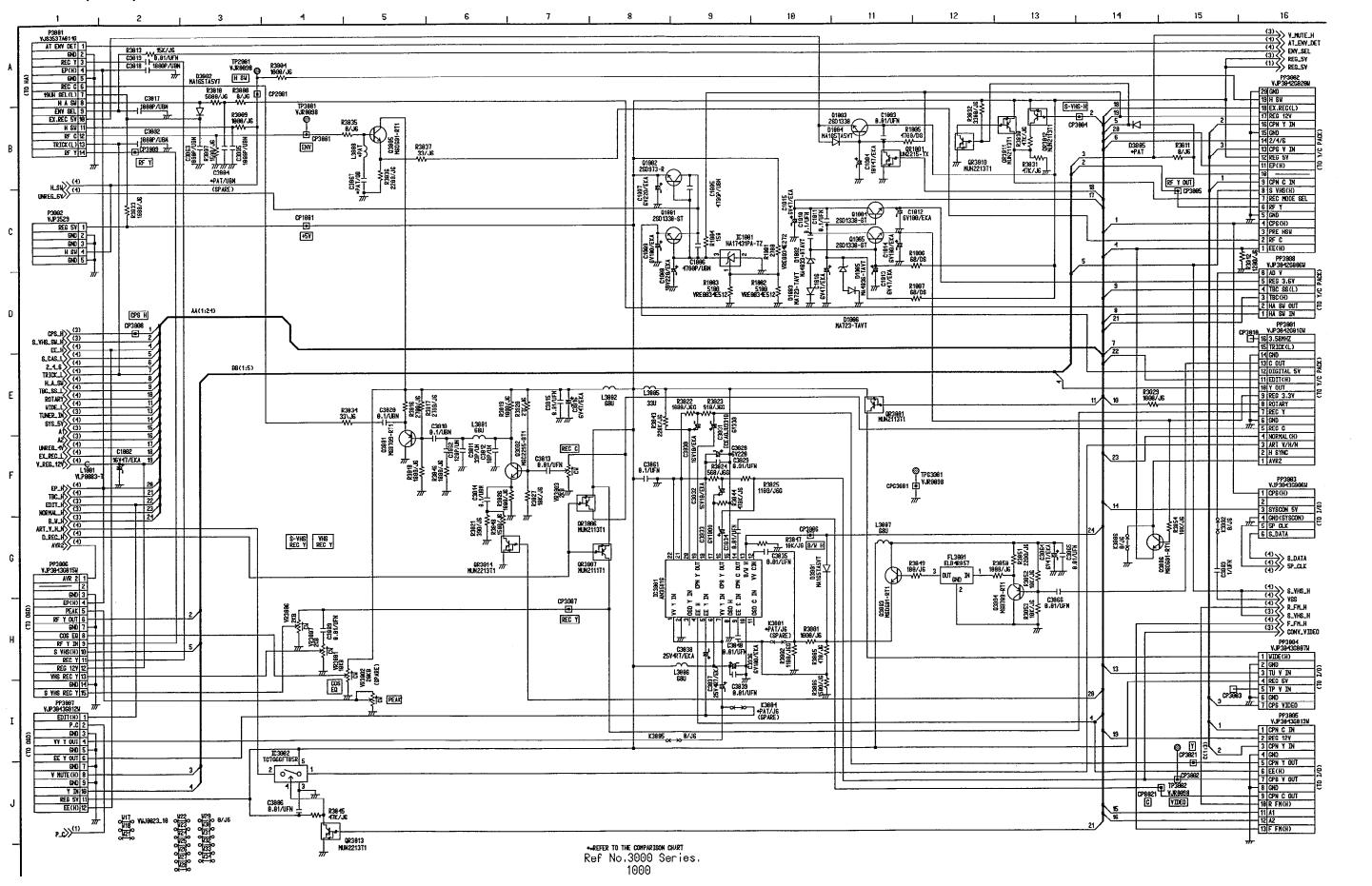




5-2. AUDIO (MAIN) SCHEMATIC DIAGRAM



5-3. VIDEO (MAIN) SCHEMATIC DIAGRAM



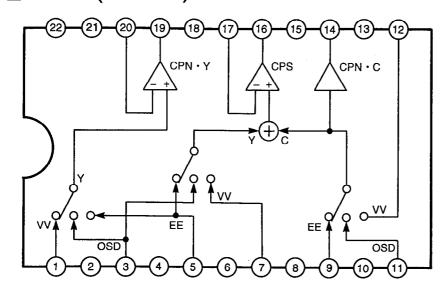
AUDIO (MAIN) C.B.A.

REF. NO.		Q4801			Q4802			Q4803	3		Q4804			Q4805			Q4806	i		
MODE	E	C	В	Е	С	В	Е	С	В	E	С	В	Е	С	В	Ш	С	В		
PLAY	0	0	0	0	5.3	0	0	5.3	0	0,	0.2	0.2	0.2	0	0	0,5	0	0.5		
REC	0	0	0	0	5.3	0	0	5.3	0	0	8.8	0.9	9.3	12.0	10.0	12.1	12.0	11.3		
REF. NO.	-	Q4807																		
MODE	ш	O	В																	
PLAY	0.6	0	0.3																	
REC	12.1	12.0	11.3																<u></u>	
REF. NO.	C	R480	1	(2R480	2	•	QR480	3	C	R4804	1	C	R480	5	(2R480	6		
MODE	ш	Ċ	В	E	С	В	Е	С	В	Ε	С	В	Е	С	В	E	С	В		
PLAY	0	0	0	0	0	0	0	0	0	0	0	4.2	0	0.9	0	0	0.3	0		
REC	0	0	0	0	0	4.8	0	0	0	0	0	4.2	0	0	4.8	0	0	3.8		

VIDEO MAIN C.B.A.

VIDEO		. •																		
REF. NO.		IC100	1																	
MODE	R	Α	K																	
PLAY	2.4	0	5.9																	
REC	2.5	0	5.9																	
REF, NO.											IC300	1			•					
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	2.5	0	2.0	0	2.5	5.1	2.5	0	1.9	0	1.9	1.9	0	2.3	5.1	2.4	1.6	0	2.4	1.8
REC	2.5	0_	2.0	4.8	2.5	5.1	2.5	0	1.9	0	1.9	1.9	0	2.3	5.1	2,3	1.6	0	2.2	1.8
REF. NO.	IC3	001			IC3002	2			Q1001			Q1002	?	(Q1003			Q1004		
MODE	21	22	_ 1	2	3	_ 4	5	E	С	В	Ш	O	В	Е	С	В	Е	O	В	
PLAY	0	0	0.4	0.3	0	5.1	5.1	5.2	6.0	5.9	5.2	6.0	5.9	5.1	5.1	5.8	3.7	4.3	4.3	
REC	0	0	0.4	0.3	0	5.1	5.1	5.2	6.0	5.9	5.2	6.0	5.9	0.3	5.2	0	3.7	4.3	4.3	
REF. NO.	Q1005 Q3001							Q3002	2		23003			Q3004			Q3005			
MODE	Е	C	В	Е	С	В	Е	С	В	Ε	С	В	Е	С	В	Е	С	В		
PLAY	3.3	4.3	4.0	2.6	0.2	2.0	1.1	3.9	1.9	2.5	5.1	3.1	3.1	0	2.5	1.3	5.1	1.9		
REC	3.3	4.3	4.0	2.6	0	2.0	1.2	3.9	1.9	2.5	5.1	3.1	3.1	0	2.5	0	5.2	0		
REF. NO.	- 1	Q3006		C	QR100	1		2R300	1	C	R3006	ć	C	R3007	7	Q	R3010			
MODE	Е	C	В	Ε	С	В	E	С	В	E	С	В	Е	С	В	Ε	С	В		
PLAY	0	0	0.5	0	5.8	0	5.1	0	5.0	5.1	5.0	0.4	5.1	5.0	0.1	0	0	4.2		
REC.	4.8	0	0.5	0	0	3.8	5.1	0	5.0	5.1	2.0	5.0	0.2	3.3	5.0	0	0	4.2		
REF. NO.	QR3011 QR3012					2		QR301	3		QR301	4								
MODE	ш	C	B	Е	С	В	Е	С	В	Ę	С	В								
PLAY	5.1	5.1	0	5.1	5.1	0	0	5.1	0	0	0	0								
REC	5.2	5.1	0	5.2	5.2	0	0	5.1	0	0	0	0								

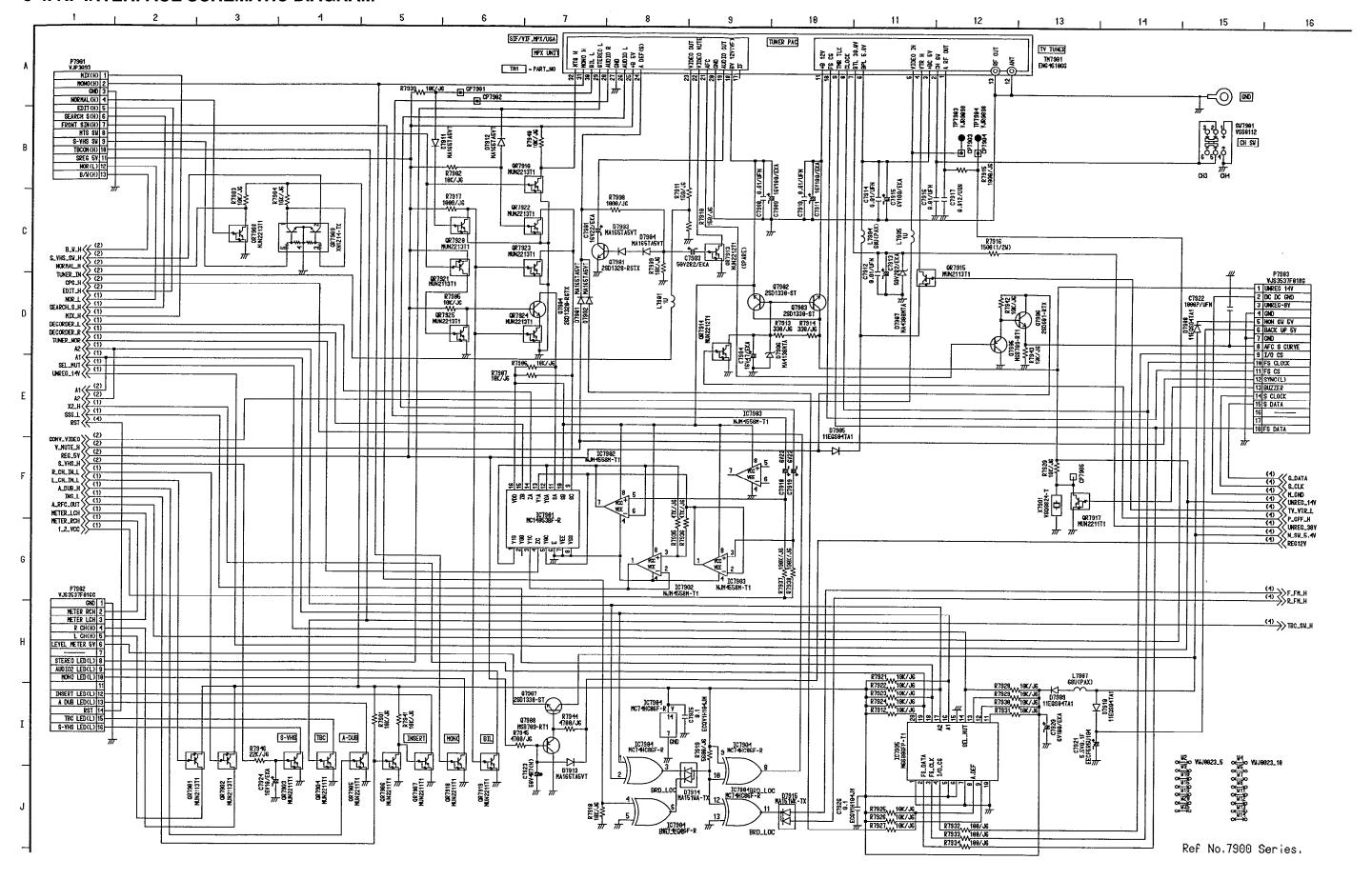
■ IC3001 (AN3581S)



RF INTERFACE C.B.A.

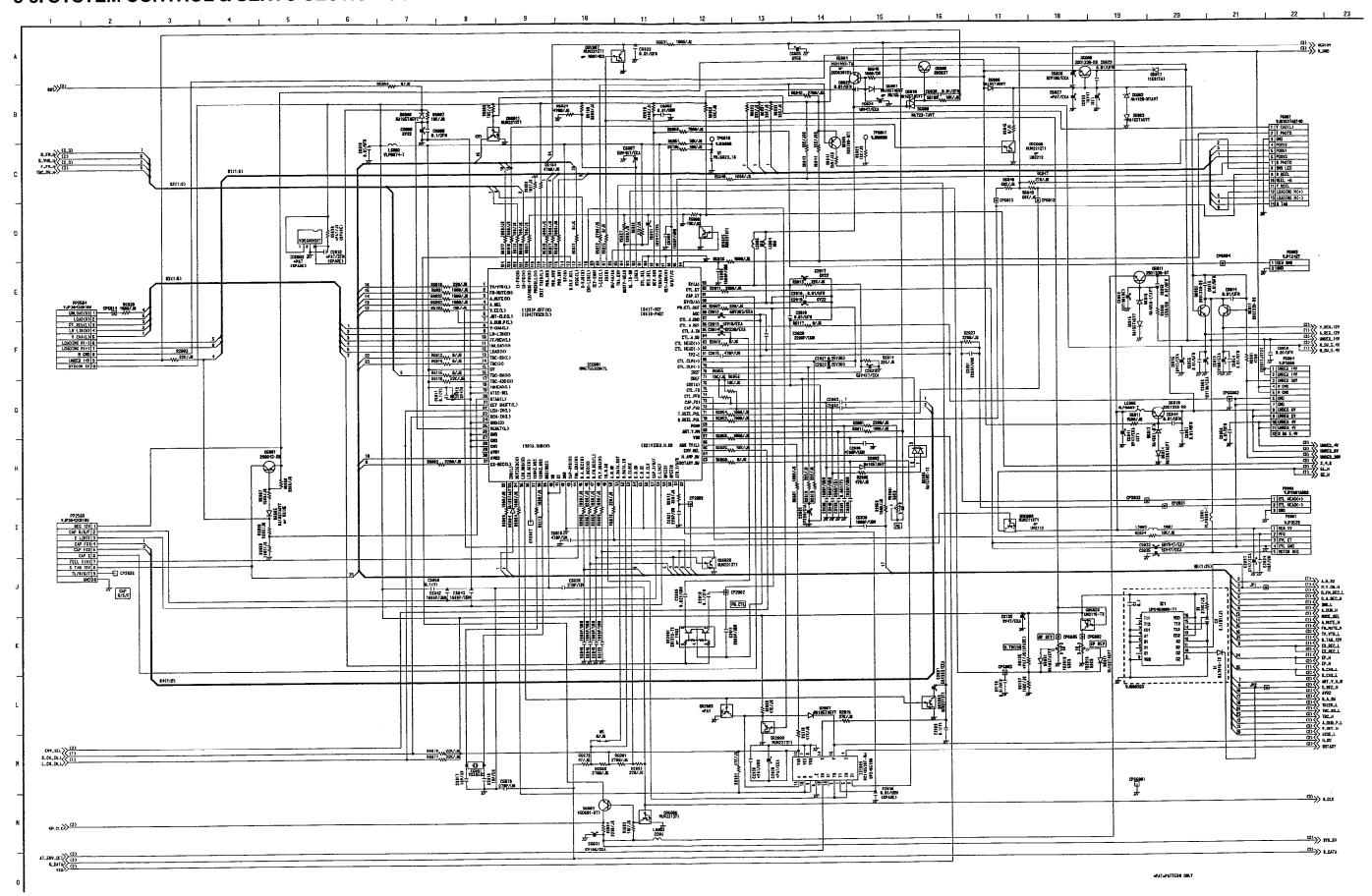
			ليا ، ب		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·									1					
REF. NO.		1		,	T		IC						1			1				
MODE	11	2	3	4	5	6	7	. 8	9	10	11	12	13	14						
PLAY	0	0	0	3.7	0	5.0	0	0	0	0,5	5.0	0,5	5.0	5.0					ļ	
REC	0	0	0	3.7	0	5.0	0	0	0	0.5	5.0	0.5	5.0	5.0	<u> </u>	Ĺ				
REF. NO.			r		T			IC7												
MODE	11	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	6.0	0,9	6.0	6.0	6.0	0	0	0	0	12.5	12.5	6.0	6.0	6.0	6.0	12.5				
REC	6.1	2.6	6.0	6.1	6.1	0	0	0	0	12.6	12.5	6.1	6.1	6.1	6.1	12.6				
REF. NO.					902								903				-		1	
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8				
PLAY	6.0	6.0	6.0	0	0	6,0	6.0	0	6.0	6.0	6,0	0	2.1	2.1	12.1	12.5				
REC	6.0	6.0	6.0	0	6,0	6.0	6.0	0	6.0	6.0	6.0	0	2.2	2.0	12.1	12.5			<u> </u>	
REF. NO.											IC790				- : -				·	
MODE	1	2	3	4	5	6	7	8	9	10		12	13	14	15	16	17	18	19	20
PLAY	0	4.1	4.7	4.9	5.0	5.0	0	3.5	5.0	0	0	0	0	0	0	3.7-	0	5.0	0	5.0
REC	0	4.1	4.8	4.9	5.0	5.0	0	3.5	5.0	0	0	0_	0	0	0	3.7	0	5.0	0	5.0
REF. NO.		Q7901			Q7902			Q7903			27904			Q7905		· · · · · · · · · · · · · · · · · · ·	Q7906			
MODE	E	C	<u>B</u>	E	C	В	E	C	В	E	C	<u>B</u> .	E	C	<u>B</u>	E	C	<u>B</u>		
PLAY	0	0	0.4	12.6	14.6	13.2	12.6	14.6	13.2	0.9	12.5	0	4.6	0	3.8	4.1	5.1	4.6		
REC REF. NO.	0	0 Q7907	0.4	0	0 Q7908	0	0	0	0	0	12.6	0	4.3	0	3.4	3.7	5.2	4.3	L	
														· ·						
PLAY	<u>E</u>	_C	В	E	C	B														
REC	5.2 5.2	5.3 5.3	5.8 5.8	5.8 5.8	0	5.1 5.2														
REF. NO.		R790			2R790			QR790	2		R7904			R790	<u>. </u>		R790			
MODE	E	С	В	E	C.	В	E	C	В	E	C	В	E	C	В	Е	C	В		
PLAY	5.0	5.0	0.4	5.0	5.0	0.4	0	2.8	0	0	4.1	0	0	3.7	0	0	0	3.4		
REC	5.0	5.0	0.4	5.0	5.0	0.4	0	3.6	0	0	4.4	0	0	4.1	0	0	0	3.4		
REF. NO.		R7907		1	R790		·		R790		7.7		2R7910			R7913			R7914	
MODE	E	С	В	E	С	В	1	2	3	4	5	E	С	В	E	С	В	E	С	В
PLAY	0	3.7	0	0	4.2	0	2.8	0	2.8	0	0	0	5.1	0	0	12.2	0	0	13.2	0
REC	0	0.7	0	0	4.2	0	0	0	0	0	0	0	5.2	0	0	12.2	0	0	0	0
REF. NO.		R7915			2R791			QR791			R7919			R7920			R792	<u>-</u> -		<u> </u>
MODE	·Ε	С	В	E	С	В	E	С	В	Е	С	В	E	С	В	Е	С	В		
PLAY	4.8	4.8	0	0	0	4.9	0	4.0	0	0	3.9	0	0	0	0	5.1	5.1	0		
REC	0	0	0	0	0	0	0	0	0	0	4.1	0	0	0	3.9	5.2	5.2	0		
REF. NO.		1R7922			QR792			QR792			R7925		- -							\Box
MODE	Е	С	В	E	С	В	Ε	С	В	E	С	В								
T		<u> </u>				_=_														
PLAY	0	0	4.2	0	10	0	0	1.4	0	0 1	0 I	5.1) !				
						_		ا م د ا			_		1	1	1	1			1	

5-4. RF INTERFACE SCHEMATIC DIAGRAM



RF IONTERFACE SECTION SECTION RF IONTERFACE

5-5. SYSTEM CONTROL & SERVO SECTION SCHEMATIC DIAGRAM



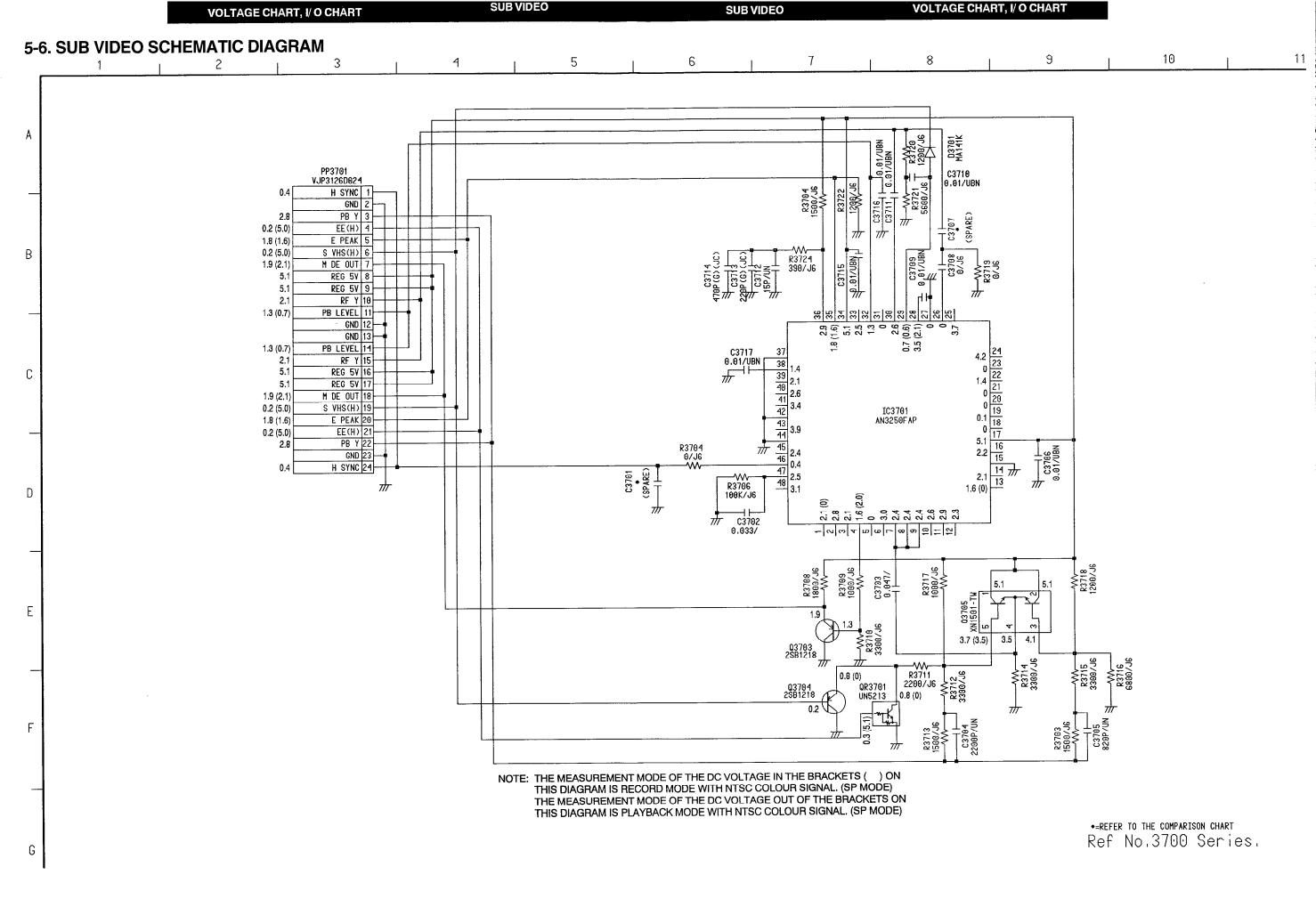
SYSCON/SERVO C.B.A.

515CU	,				-			100									1	· · · · · · · · · · · · · · · · · · ·		
REF. NO.	\vdash	T	Τ		-T			T	2003	1	1	_		1			ļ	т		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			ļ	ļ
PLAY	4.9	5.0	4.9	4.9	5.0	0	0	0	5.0	5.0	0	3.2	0,5	3.3	4.9	5.0	ļ			
REC	4.9	4.9	4.9	4.9	4.9	0	0	0	4.9	4.9	0	0.1	0.2	0.1	4.9	5.0		<u> </u>	<u>. </u>	<u></u>
REF. NO.			T		T	T	T	1 -		, 	001	r		T			Т		1	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0	0	5.0	5.0	5.0	4.9	4.9	0	4.9	0	0	4.9	0	5.0	0	5.0	0	0	4.2
REC REF. NO.	0	0	0	5.0	0	5.0	4.9	4.9	0	4.9	0	0	4.9	0	5.0	0	4.9	0	0	0
	-	1 00	T	T	T		T		Т		001			T		7		Γ		
MODE	21	22	23	24	25	26	27	28	29	30	31_	32	33	34	35	36	37	38	39	40
PLAY	5,0	0.4	0.4	0	5.0	0	0	0	5.0	0	0	0	4.9	5.0	4.9	4.9			00	4.9
REC	5.0	0.4	0.4	0	5.0	0	0	0	1 0	0	4.9	0	4.9	4.9	4.9	4.9	<u>. </u>	<u> </u>	0	4.9
REF. NO.		T	T	T	T	T	T		T	,	001	T					Γ.	1	т	Т
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	0	0	5.0	0	0	0	5.0	0	5.0	5.0	4.6	4.6	4.4	0.7	0	0.6	0	4.9	4.9	4.9
REC	0	0	4.9	4.9	4.9	4.9	0	0	4.9	0	4.7	4.6	4.4	0,7	0	0.7	0	4.9	4.9	4.9
REF. NO.		1		1				· · · · · · · · · · · · · · · · · · ·			001		Ι							
MODE	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 0 4.9 4.9 0 5.0 4.9 2.4 0.1 3.1 4.9 4.9 2.3 2.4 1.1 2.4 0											77	78	79	80					
PLAY	-			†					-							_	2.4	2.4	2.6	2.3
REC	0	4.9	4.9	0	0	4.9	2.4	0.1	3.1	4.9	4.9	2.3	2.4	0.9	2.4	0	2.4	2.4	2.3	2.5
REF. NO.		T	T		T	<u> </u>	T	1	I		001	i	Ι				1		· · · · ·	
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	4.9	0	0	0	2.4	2.4	0	2.9	2.3	5.0	2.5	2.3	4.9	4.7	4.8	5.0	0	5.0	0	0
REC REF. NO.	4.8	1.3	3.8	0	2.4	2.4	0	2.6	2.4	4.9	2.5	2.3	4.9	4.6	4.8	4.9	0	5.0	0	0
				Γ	I		T			T	001	l								
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
PLAY	0	2.0	2.3	0.9	3.3	4.9	4.9	0	0	4.9	0.1	5.0	4.3	5.0	0	0	4.9	0	.0	0
REC	0	2.0	2.3	0.9	0.1	4,9	4.9	0	0	4.9	0.1	5.0	4.3	5.0	0	0	4.9	0	0	0
REF. NO.		IC6			 	IC6002	T		Q6001			Q6002			26003			Q6004		<u> </u>
MODE	121	122	123	124	V	G	0	E	С	В	E	С	В	E	С	В	E	С	В	
PLAY	0	0	0	4.9	5.0	0	5.1	12.3	0.7	12.3	12.3	14.6	12.9	4.3	5.2	0.1	4.9	5.0	5.7	<u> </u>
REC	0	0	0	4.9	5.0	0	5.1	12.3	12,1	11.5	12.3	14.6	12.9	4.3	5.2	0.2	4.9	5.0	5.7	
REF. NO.		Q6005	-		G6006			Q6007			26008			26010			Q6011			
MODE	_E_	_ C	В	E	C	В	E	C	В	E	C	В	E	_ C	В	E	С	В	-	
PLAY	4.9	4.9	4.2	4.9	14.6	5.5	12.2	14.6	12.9	12.3	13.9	12.9	5.0	6.1	5.7	5.3	6.1	6.0		
REC	4.9	4.9	4.1	4.9	14.6	5.5	12.3	14.6	12.9	12.3	13.8	12.9	5.0	6.1	5.7	5.3	6.1	6.0		<u> </u>
REF. NO.			R2001				R2002			R2008			R600			R6007			2R600	
MODE	1	2	3	4	5	E	С	В	E	С	В	E	С	В	_E	С	В	E	С	В
PLAY REC'	00	0	4.9	0	4.9	0	0	4.9	0	0	4.9	0	0.2	4.2	0	0	4.9	0	12.9	0
REF. NO.		0 0 0 0 0 0 0 0 0 0 0	4.9	0	4.9	0	0	4.9	0	0	4.9	0	0.1	4.2	0	0	4.9	0	12.9	0
					2R601			DR602			R6025									
MODE	E	С	B	E	C	В	E	С	B	E	C	В								
PLAY	5.0	0	5.0	0	4.2	0	5.0	0	4.9	0	0	4.9								
REC	5.0	4.9	0	0	4.2	0	5.0	0	4.9	0	0	4.9								

■ I/O DIVISION IC6001 (MN6755320H7L) SYSTEM CONTROL

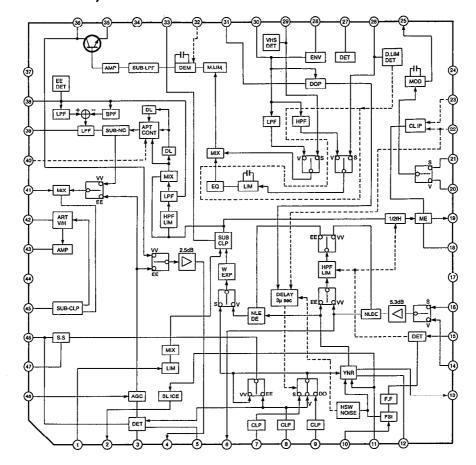
Terminal	1/0	Function	Terminal	I/O	Function	Terminal	1/0	Function
1	0	TV (H) / VTR (L)	43	0	CAP RVS (H)	85	ł	CTL AMP INPUT
2	0	FM MUTE (H)	44	0	FULL ERASE (H)	86	1	CTL AMP REFERENCE VOLTAGE
3	0	AUDIO MUTE (H)	45	0	D.A. REC (H)	87	_	CTL AMP GND
4	0	AUDIO SELECT	46	0	D. REC (H)	88	1	AGC
5	0	V EE (L)	47	0	D. FM REC (H)	89	0	PLAYBACK CTL
6	0	JUST CLOCK (L)	48	0	FLYING ERASE (H)	90		5 V (D/A)
7	0	POST-SYNCH (L)	49	0	19 μ H SW	91	0	CAP TORQUE
8	0	VOLTAGE SELECT	50	0	AUDIO H SW	92	0	CYLINDER TORQUE
9	0	LOADING MOTOR LIMIT (H)	51	0	S. DATA (system cont.) OUT	93		5 V (ANALOG)
10	0	FF, REW (L)	52	1	S. DATA (system cont.) IN	94	ı	T PHOTO SENSOR
11	0	UNLOADING (H)	53	0	S. CLOCK (system cont.) OUT	95	ı	S PHOTO SENSOR
12	0	LOADING (H)	54	0	S. DATA (EXP) OUT	96		NORMAL (H) / SERVICE (M) / TEST (L)
13	0	TBC SS (L)	55	ı	S. DATA (EXP) IN	97	_	
14	0	TBC ON (H)	56	0	S. CLOCK (EXP) OUT	98	ı	VISS/BILINGUAL (EXIST/NOTHING)
15		VDD	57	0	CAP R (H) / S (M) / F (L)	99	-1	DEW SENSOR
16	-	TBC SW ON (L)	58	0	CURRENT LIMIT	100	ı	VSS/REC SELECT (PAL/NTSC)
17	1	TBC ADD (H)	59	_		101	ı	DECK/CLY (TDD/LDD) SELECT
18	1	10 HEAD (H)	60			102	1	LINEĄŖITY
19	1	AT SELECT [FERRITE (H)]	61	0	ARTIFICIAL VERTICAL SYNC V/H/N	103	1	SLOW TRACKING MM
20		SAFETY TAB [TAB EXIST (L)]	62	0	VIDEO HEAD SW	104	ı	HEAD CLOG DETECT
21	_		63	0	ROTARY SW	105	ı	ENVELOPE FOR TRACKING
22	ı	Lch IN (L) FOR CONFIRM	64	0	HEAD AMP SW	106	0	VV 4H (L)
23	1	Rch IN (L) FOR CONFIRM	65	I	ENVELOPE SELECT	107	0	SP (H) / EP (L)
24		VSS2	66	ı	AV SW TV (H)	108	0	SENSOR LED (L)
25	_	RESET	67		VSS	109	_	
26	_		68	ı	ARTIFICIAL SYNC MM	110	0	ENVELOPE LINEARITY (L)
27	-		69	ı	CYLINDER PG MM	111	ı	S VHS (H)
28	-		70	1	S REEL PULSE	112	0	WIDE TV (L)
29	0	AVR 1	71	1	T REEL PULSE	113	0	S. CLOCK SELECT
30	0	AVR 2	72	1	CAP FG2	114	_	5 V (DIGITAL)
31	0	EX. REC (L)	73	1	CAP FG1	115	1	POSITION SW 1
32	0	POST-SYNCH (H)	74	ı	CYLINDER PFG	116	1	POSITION SW 2
33	0	INSERT (L)	75	1	CYLINDER FG	117	ı	POSITION SW 3
34	0	26 μ VIDEO (H)	76		VSS	118	_	
35	0	LINEARITY DISCRIMINATE MODE (L)	77	0	SERVO REFERENCE VOLTAGE	119	_	
36	0	LINEARITY OK (H)	78	1	SERVO REFERENCE VOLTAGE	120	ı	L3/MUSE FM (H)
37	0	OSC 12 MHz	79	1	CTL PEAK CLAMP (-)	121	ı	L2/FM (H)
38	ı	OSC 12 MHz	80	1	CTL PEAK CLAMP (+)	122	ı	L1/FM (H)
39		vss	81	1	TPZ C	123	0	POWER OFF (H)
40			82	I/O	CTL SIGNAL ()	124	0	SPECIAL PLAYBACK (L)
41	_		83	0	CTL SIGNAL (+)	-		
42			84	0	CTL AMP SW			

SCM-7



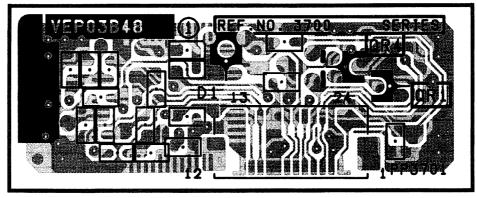
SUB VIDEO

■ IC3701 (AN3250FAP)

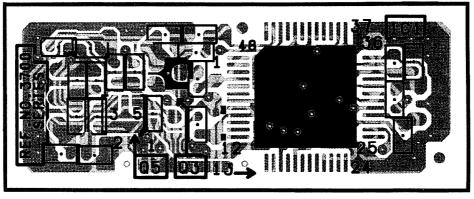


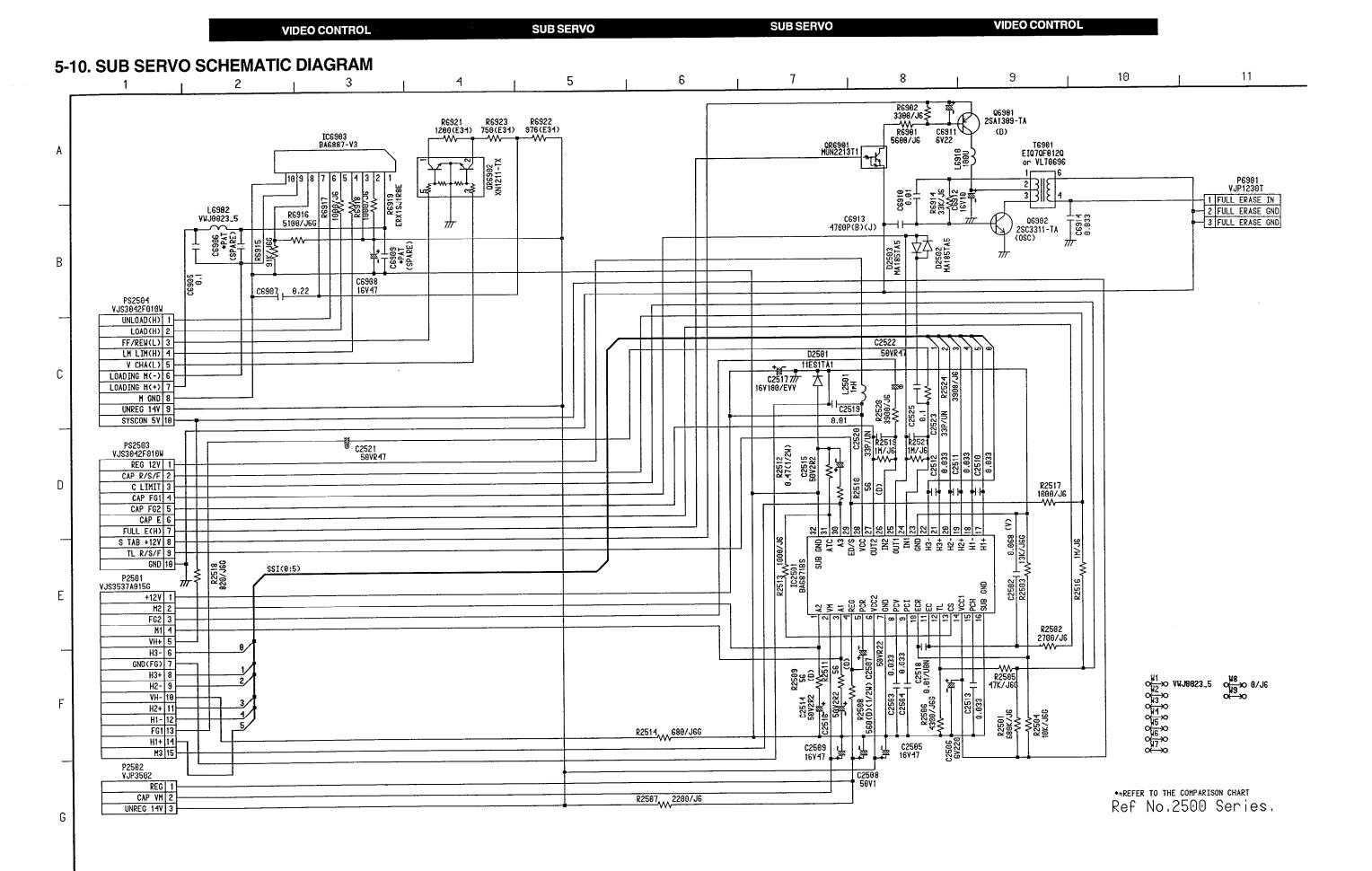
5-7. SUB VIDEO C.B.A.

(COMPONENT SIDE)



(FOIL SIDE)





MEMORY

MEMORY

VOLTAGE CHART / SUB SERVO C.B.A.

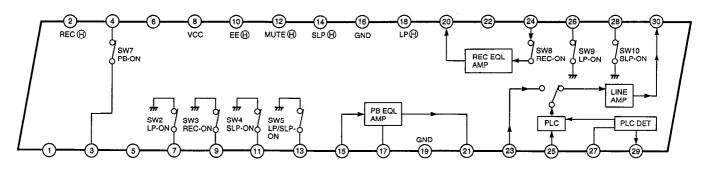
G

VOLTAGE CHART / SUB SERVO C.B.A.

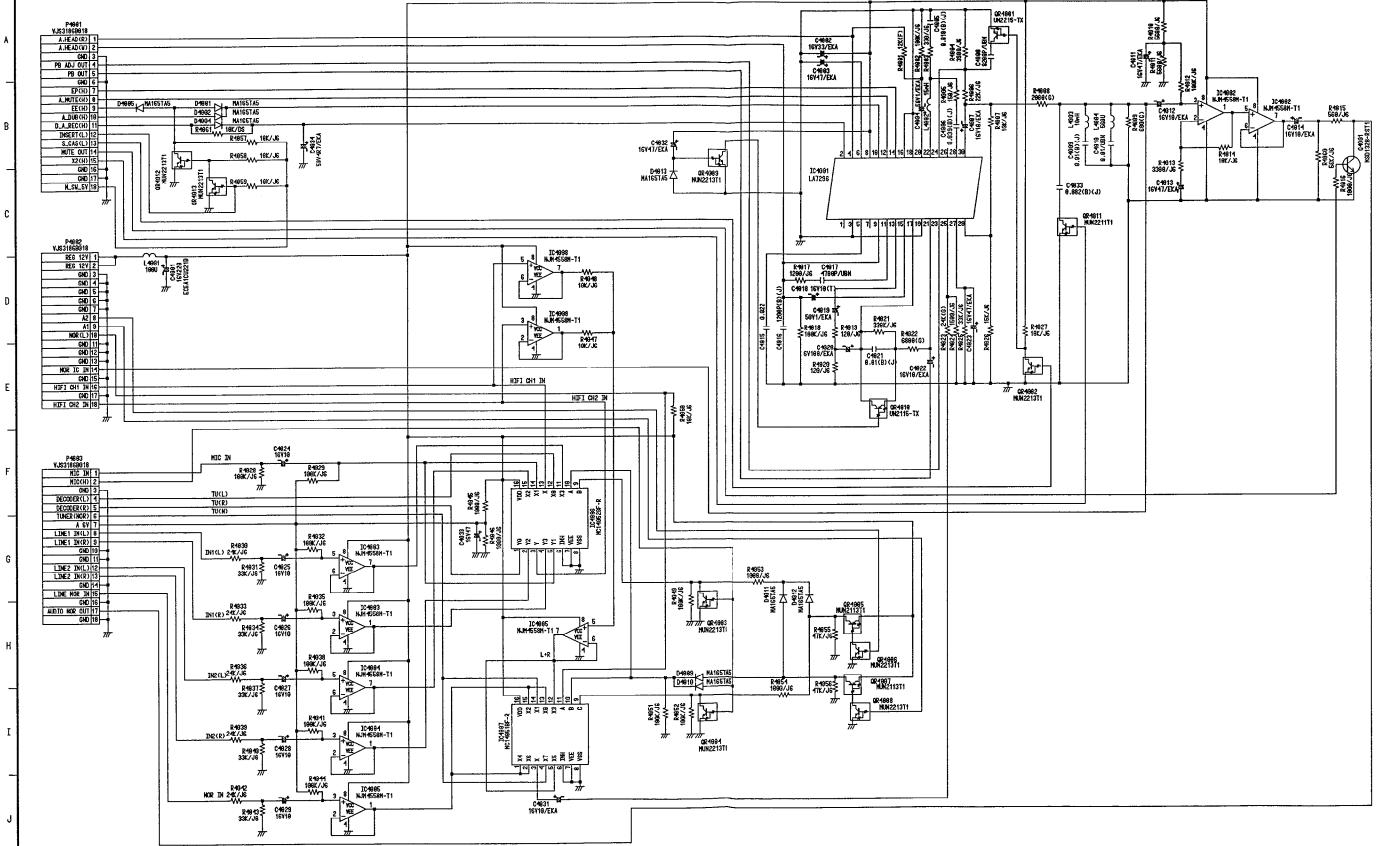
AUDIO 1 (NORMAL) C.B.A.

70010	. (O 1 111		V. L	,,,															
REF. NO.		,	,		,					IC4	001				,					,
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.3	0	0_	0	8.1	9.2	0	12.2	0	0.3	0.6	0	0	0	2.0	0	0	0	0	4.1
REC	11.8	4.4	0	0	8.2	9.3	0	12.3	0	4.6	0	0	0_	0	0.9	0	0.6	0	0	4.1
REF. NO.					IC4	001														
MODE	21	22	23	24	25	26	27	28	29	30										
PLAY	4.1	1.1	0	0	0	0	0.3	0	0	3.7										
REC	0.2	1.0	0	0	0	0	0	0	0	3.6										
REF. NO.				IC4	002							IC4	003							
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8				
PLAY	6.1	6.1	6.0	0	6.1	6.1	6.1	12.3	6.1	6.1	6,1	0	6.0	6.1	6.1	12.2				
REC	6.1	6.1	6.0	0	6.1	6.1	6.1	12.3	6.1	6,1	6.0	0	6.0	6.1	6.1	12.3				
REF. NO.				IC4	004							IC4	005							
MODE	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8				
PLAY	6.1	6.1	6.0	0	6,0	6.0	6.0	12.2	6.1	6.1	6.0	0	6.1	6.1	6.1	12.2				
REC	6.1	6.1	6.0	0	6.0	6.1	6.1	12.3	6.1	6.1	6.0	0	6.1	6.1	6.1	12.3				
REF. NO.								IC40	006											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	6.1	6.1	6.1	6.1	6.0	0	0	0	11.6	11.7	6.1	6.1	6.1	6.0	6.1	12.2				
REC	6.1	6.1	6.1	6.1	6.0	0	0	0	11.7	11.8	6.1	6.1	6.1	6.0	6,1	12.3				
REF. NO.								IC40	07											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	6.1	6.1	6.1	6.1	6.1	0	0	0	0	11.7	0	6.1	6.1	6,1	6.1	12.2				
REC	6,1	6,1	6.1	6.1	6.1	0	0	0	0	0	0	0	0	0	0	0				
REF. NO.				IC4	800					Q4001										
MODE	1	2	3	4	5	6	7	8	Е	С	В									
PLAY	6.1	6.1	6.1	0	6,1	6.1	6.1	12.2	0	0	-1.0									
REC	6.1	6.1	6.1	0	6:1	6.1	6.1	12.3	0	0	-0.3									
REF. NO.	C	R400	1	(2R400	2	•	QR400	3	G	R4004	1	C	R400	5	Q	R4006			
MODE	Е	С	В	E	С	В	E	С	В	Ε	0	В	Е	С	В	Е	С	В		
PLAY	0	0	0	0	0	4.1	0	11.6	0	0	0	Ö	12.2	0	12.1	0	12,1	0		
REC	0	2.3	0	0	0	4.0	0	11.6	0	0	0	0	12.2	0	12.1	0	11.0	0		
REF. NO.	C	R400	7	(2R400	В		QR400	9	Q	R4010)	C	R401	1	Q	R4012			
MODE	Ε	С	В	E	С	В	E	С	В	Е	С	В	E	С	В	Е	С	В		
PLAY	12.2	12.2	0	0	0	3.7	0	2.1	0	2.3	2.2	2.1	0	0.1	0	0	0.4	0		
REC		12.2	0	0	0	3.7	0	1.5	0	0.2	0.6	0.9	0	1.2	0	0	4.9	0		
REF. NO.		R401	3															•		
MODE	Е	С	В																	
PLAY	0	0	3.4																	
REC	0	0	3.4										-							

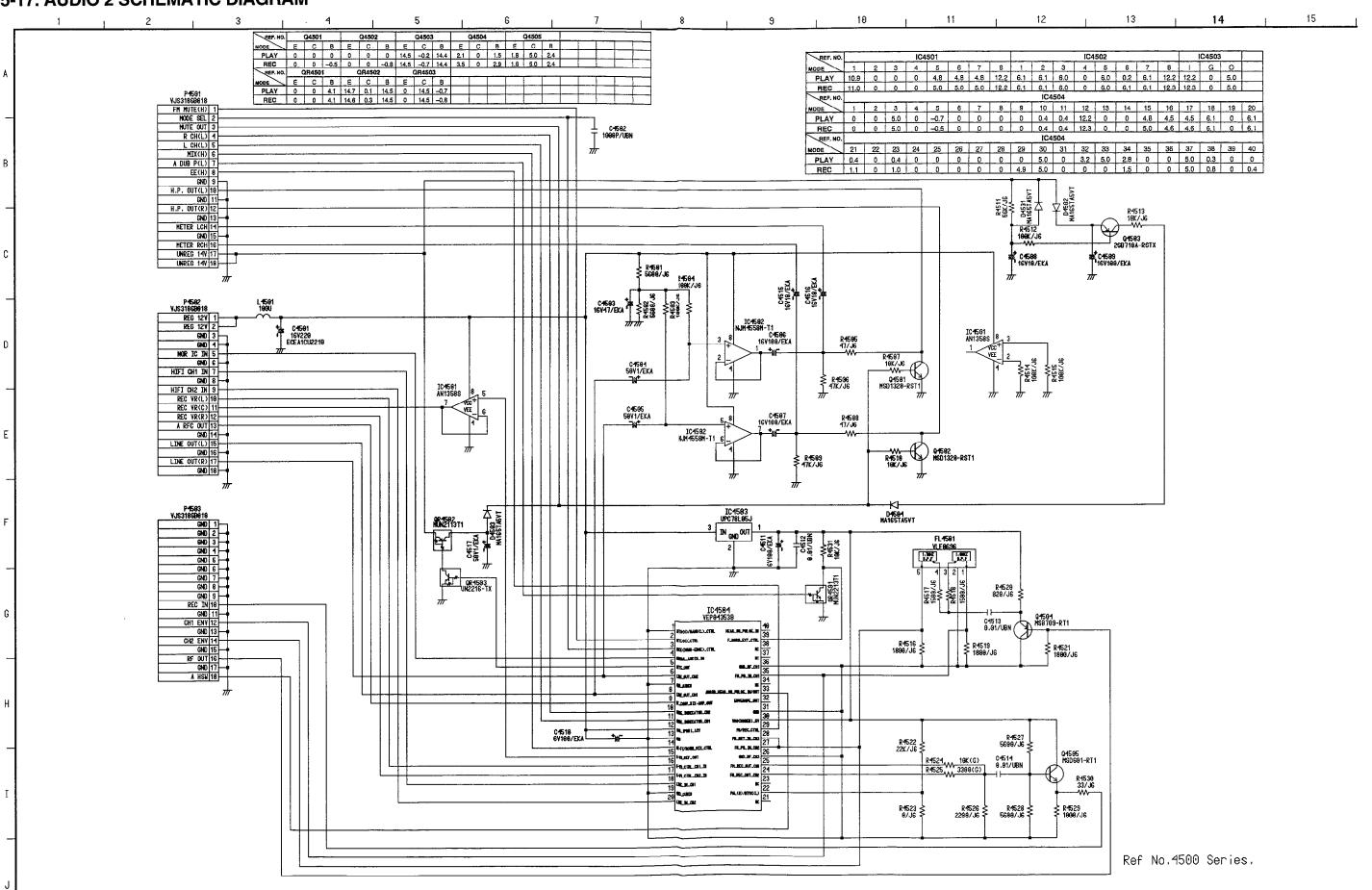
■ IC4001 (LA7296)



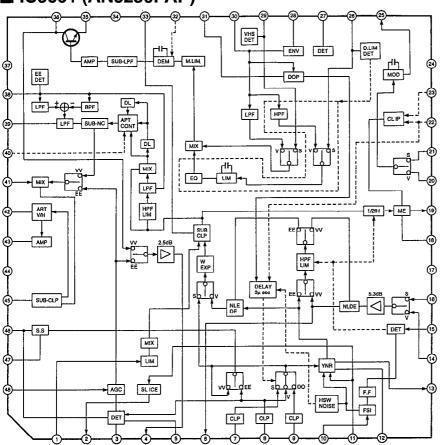
5-14. AUDIO 1 SCHEMATIC DIAGRAM P4661 VJS31869618 A.HEAD(R) 1 A.HEAD(V) 2



5-17. AUDIO 2 SCHEMATIC DIAGRAM



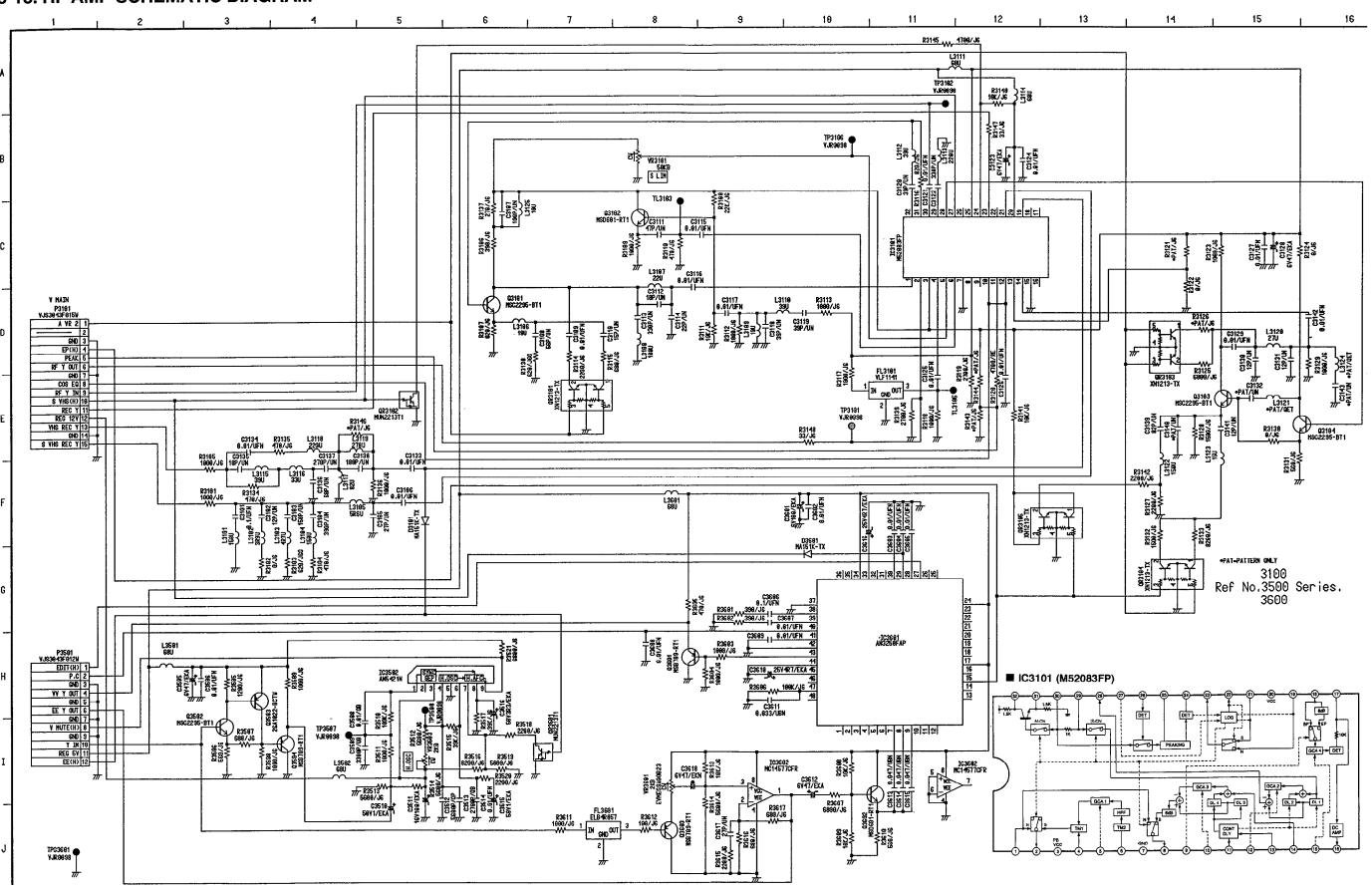
■ IC3601 (AN3250FAP)



RF AMP C.B.A.

RF AMF	J C.E	5.A.																		
REF. NO.											IC310	1								,
MODE	1	2	3	4	5	6	7	88	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.6	2.0	4.8	2.9	0.9	2.6	0	2.0	1.3	1.2	2.7	1.2	0	3,6	0	0.3	2.9	2.8	0.4	4.9
REC	3.6	2.0	4.8	2.9	0.9	2.6	0	2.0	1.4	1.2	2.7	1.2	0	3.6	0	0.3	2.9	2.8	2.4	4.9
REF. NO.						IC3	101													
MODE	21	22	23	24	25	26	27	28	29	30	31	32								
PLAY	2.4	0	0.1	4.9	4.8	1.0	0.1	2.5	2.6	3.4	1.4	-3.2								
REC	2.4	0	1.7	4.9	4.8	1.0	0.1	2.5	2.7	3.4	1.4	3.2	<u> </u>							
REF. NO.					IC3502	2											,			
MODE	1	2	3	4	5	6	7	8	9											
PLAY	7.5	6.9	12.2	7.7	0	8.4	4.9	0.3	0											
REC	7.5	6.9	12.2	7.7	0	8.4	1.9	0.3	0	<u>.</u>		<u> </u>		L						
REF. NO.		•							,		IC360	1			,		,			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.8	2.4	2.1	0.7	0,3	2.7	2.1	2.1	2.1	2.2	2.6	1.9	1.4	1.9	0	1.8	4.6	0.8	0.8	0.7
REC	1.8	2.4	2.1	0.6	0.2	2.7	2.1	2.1	2.1	2.2	2.6	1.9	1.4	1.9	0	1.8	4.6	0.8	0.9	0,9
REF. NO.											IC360	1	,							
MODE	21	21 22 23 24 25 26 27							29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0.8	1.3	0.6	4.6	4.3	2.5	0	1.7	0.6	2.7	0	2.9	2.6	4.6	1.2	1.2	0	1.2	1.9	2.7
REC	0.8	1.3	0.6	4.6	4.3	2.5	0	1.7	0.6	2.7	0	3.1	2.6	4.6	1.3	1.2	0	1.2	1.9	2.7
REF. NO.				IC3	601						,	IC3	602							
MODE	41	42	43	44	45	46	47	48	1	2	3	4	5	6	7	8			_	
PLAY	3.0	0	2.4	0	2.4	0.2	2.3	3.0	3.2	1.6	1.6	0	0	0	2.6	4.6				
REC	3.0	0	2.5	0	2.3	0.2	2.3	3.0	3.2	1.6	1.6	0	0	0	2.6	4.6				
REF. NO.		Q3101		•	23102			Q3103	3		Q3104			Q3502			Q3503			
MODE	Ε	С	В	Е	С	В	E	С	В	E	С	В	E	C	В	E	С	В		
PLAY	0.7	4.4	1.4	0.8	4.8	1.4	1.0	4.0	1.8	1.8	4.8	2.5	1.3	4.2	2.0	4.9	2.5	4.2		
REC	0.7	4,4	1.4	0.8	4.8	1.4	1.1	4.0	1.8	1.8	4.8	2.5	1.3	4.2	2.0	4.9	2.5	4.2		<u> Ц</u>
REF. NO.		Q3504		(23601			Q3602	<u>:</u>		Q3603	,		C	R3101			G	R3102	2
MODE	E	С	В	Е	_c_	В	E	С	В	E	С	В	1	2	3	4	5	E	С	В
PLAY	3.2	0	2.5	1.8	0	1.2	1.6	4.6	2.2	2.6	0	2.0	0.1	0	0	0	0	0	4.9	0,1
REC	3.2	0_	2.5	1.9	0	1.2	1.6	46	2.2	2.6	0	2.0	0.4	0	0	0	0	0	4.9	0.1
REF. NO.									4				2R310	5			2R350	1		
MODE	1	2	3	4	5	11	2	3	4	_5	_1_	2	3	4	5	E	С	В		
PLAY	0.6	0	0	0	0	0.1	0.1	0	0.2	0	0,2	0	4.1	0	0	0	4.9	0		
REC	0.4	0	0	0	0_	0,4	0.5	0	0	0	4.1	. 0	4.1	0	0	0	0	4.8		

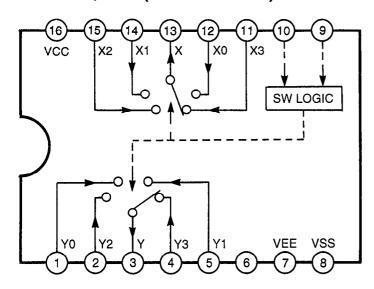
5-18. RF AMP SCHEMATIC DIAGRAM



I/O PACK C.B.A.

REF. NO.								IC3	901											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	4.9	4.9	4.9	4.9	4.9	11.1	0	0	0	0	4.9	4.9	5.7	4.9	4.9	12.2				
REC	4.9	4.9	4.9	4.9	4.9	11.1	0	0	12.2	0	4.9	4.9	5.6	4.9	4.9	12.2-				
REF. NO.								IC3	902											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	4.9	4.9	4.9	4.9	4.9	10.7	0	0	12.2	0	0	0	0.5	0	0	12.2				
REC	5.0	5.0	4.9	4.9	4.9	0	0	0	12.2	0	0	0	0	0	0	12.2				
REF. NO.		Q3901			Q3902			Q3903			(3R390	1				QR3	902		
MODE	ш	C	В	ш	С	В	ш	C	В	1	2	3	4	5	1	2	3	4	5	6
PLAY	5.8	0	5.2	5.8	0	5.2	5.8	0	5.2	0	12.2	0	0	3.7	2.6	0	5.0	0	0	0
REC	5.8	0	5.2	5.8	0	5.2	5.8	0	5.2	0	12.2	0	0	3.7	2.6	0	5.0	0	0	0
REF. NO.			QR	3903			(2R390	4		QR390	5		QR390	6		C	R390	7	
MODE	1	2	3	4	5	6	ш	C	В	Ш	С	В	ш	С	В	1	2	3	4	5
PLAY	2,6	0	5.0	0	0	0	0	0	2.6	0	0	2.6	0	11.1	0	11.6	0	5.0	0	0
REC	2.6	0	5.0	0	0	0	0	0	2.6	0	0	2.6	0	0	4.9	11.6	0	5.0	0	0

■ IC3901,3902 (MC14052BF-R)

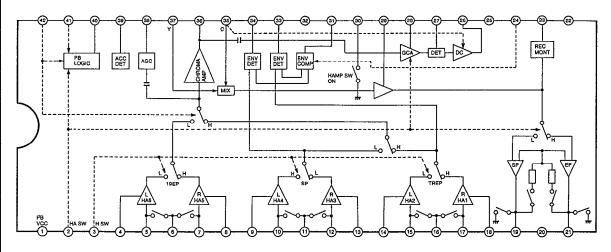


SW L	OGIC	① ③ OUTPUT					
Α	В	Х	Υ				
L	L	X0	Y0				
H	L	X1	Y1				
L	H	X2	Y2				
Η	Ι	ХЗ	Y3				

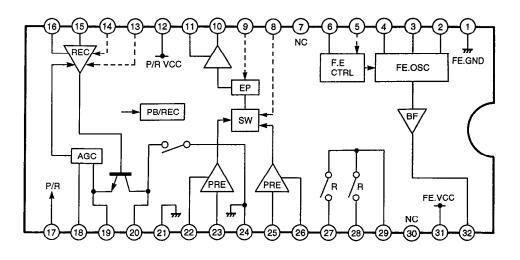
HEAD AMP C.B.A.

REF. NO.		IC501																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	5.1	0.5	2.7	2.0	0	0	0	2.0	1.3	0.5	0	0,5	1.3	2.0	0	0	0	2.0	0	0
REC	0.3	4.1	4.9	0,1	0	0	0	1.0	0.1	0	0	0	0.1	0.1	0	0	0	0.1	6.2	6.0
REF. NO.	IC501																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	0	0	0	5.1	3.4	3.0	2.6	0	0	5.0	0	2.4	2.9	2.7	1.9	2.7	2.5	3.3	4.2
REC	6.0	11.9	8.1	4.6	0.3	0.1	0.5	0.1	3.1	0	0	0	0.2	0.2	3.9	0	3.9	0.6	0.4	0.4
REF. NO.	IC5	01								-										
MODE	41	42																		
PLAY	4.8	5.1																		
REC	4.8	5.1																		
REF. NO.										IC	551									
MODE	- 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	. 0	0	0	0	0	0	0	5.0	0	2.5	2.3	5.0	4.9	0	2.9	0.4	0.2	0	0	0
REC	0	6.0	3.3	6,0	0	1.0	0.8	0	0	3.7	2.3	5.0	0	0	2.8	1.3	4.3	0.5	0.5	4.1
REF. NO.						IC5	01							Q551			Q552			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	E	С	В	Е	С	В		
PLAY	0	0.7	0.6	0	0.6	0.7	0	0	5.1	0	0	0	0	0	0	0	0	0		
REC	0	0	0	0	0	0	4.2	4.2	5.0	0	11.9	0.9	0.2	5.6	0.8	11.7	5.8	11.0		

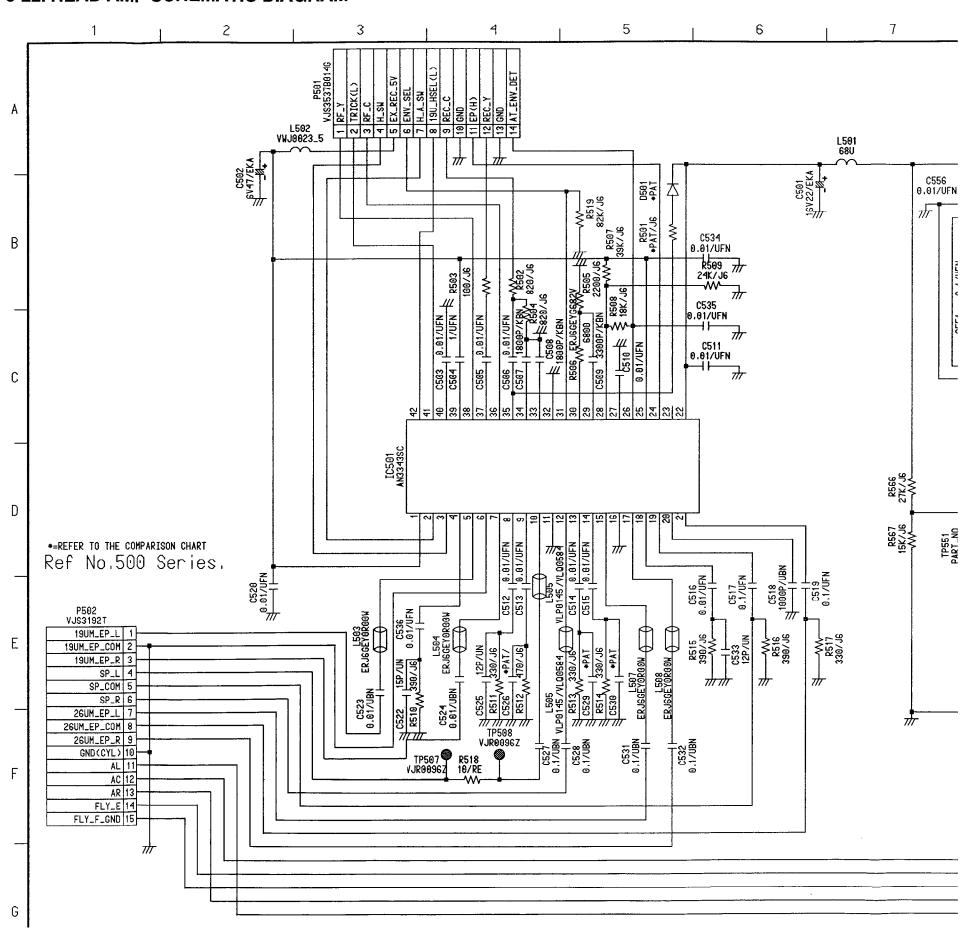
■ IC501 (AN3343SC)



■ IC551 (BA7745FS)

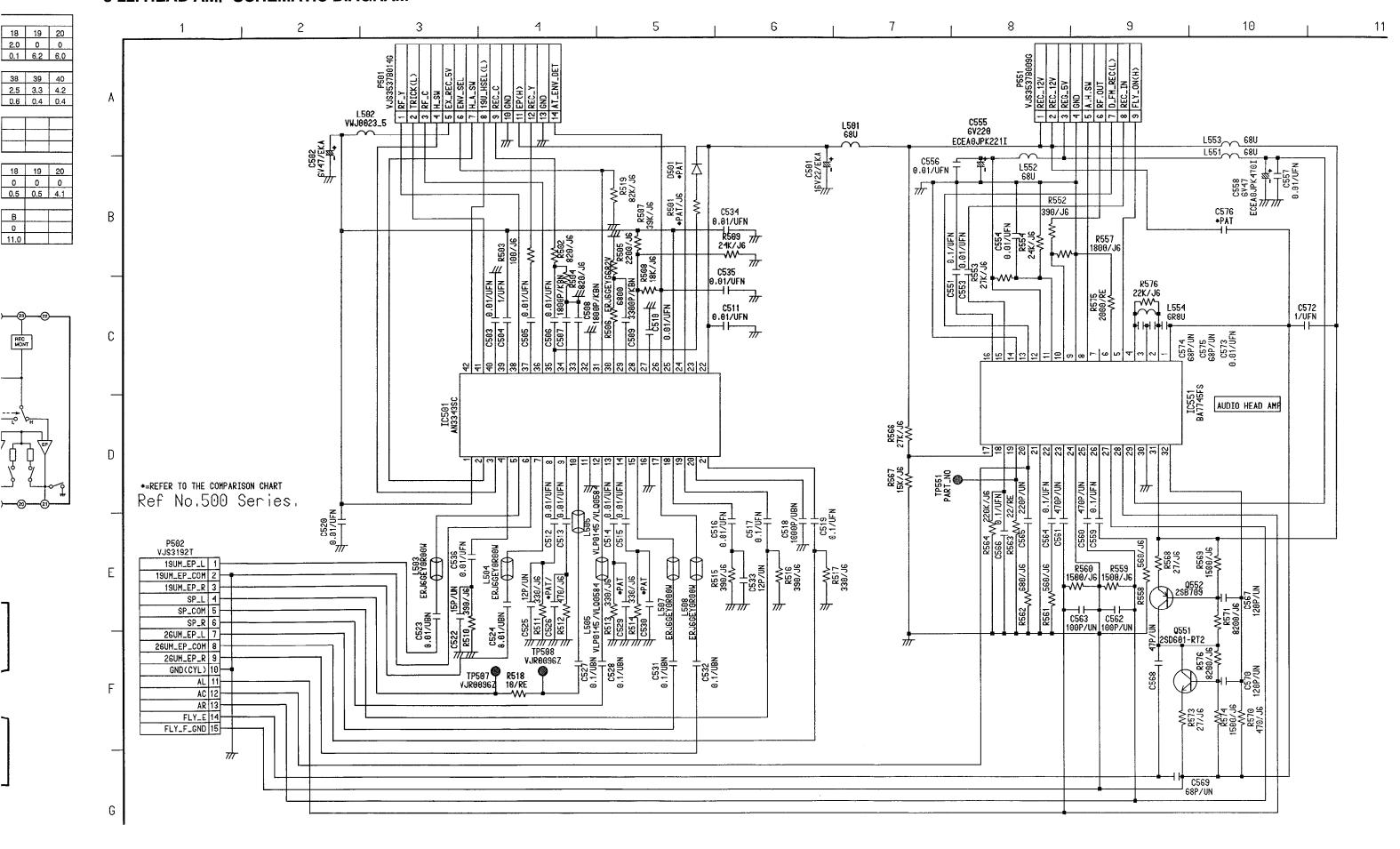


5-22. HEAD AMP SCHEMATIC DIAGRAM

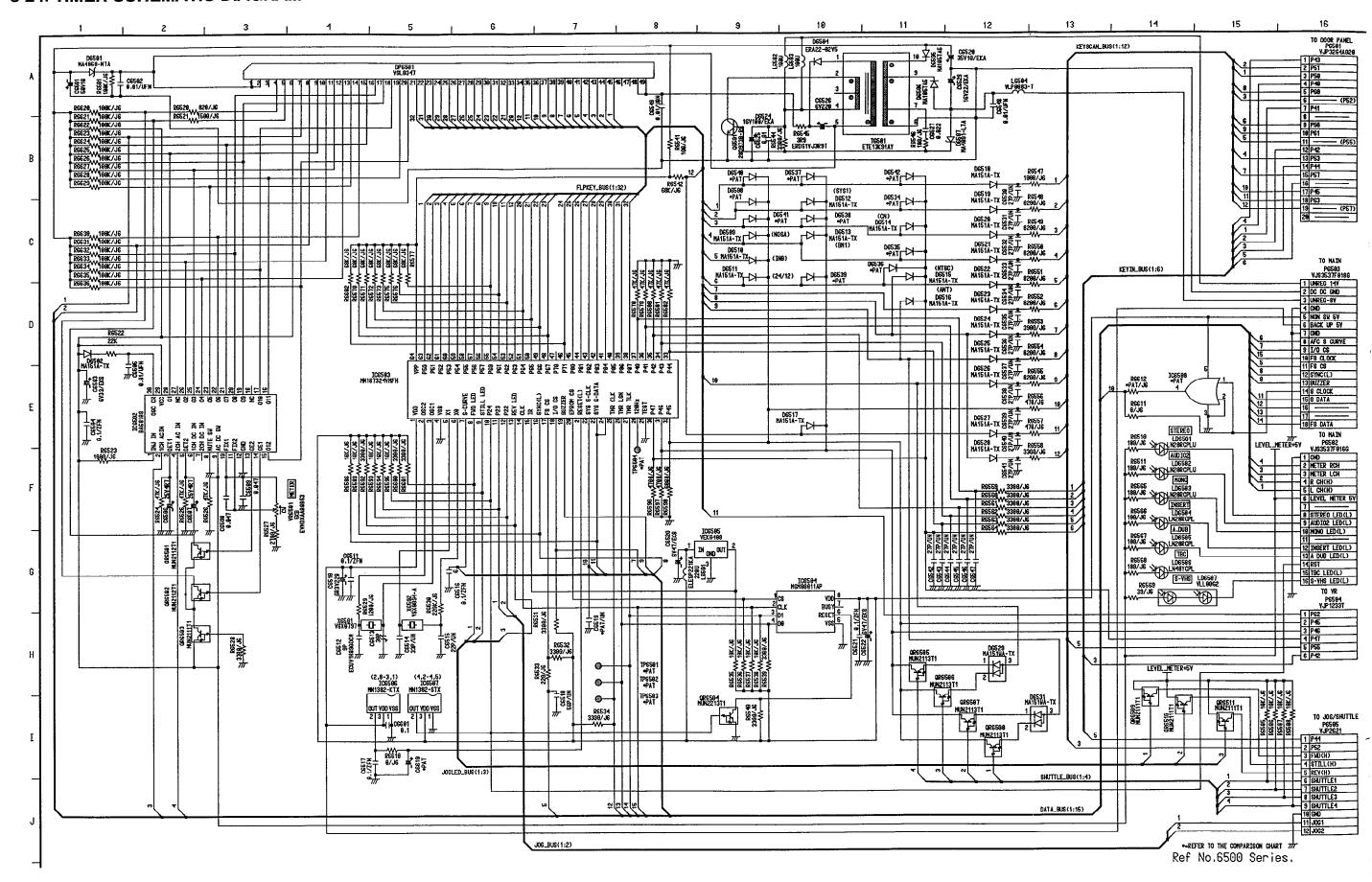


5-22. HEAD AMP SCHEMATIC DIAGRAM

B 0 11.0



5-24. TIMER SCHEMATIC DIAGRAM

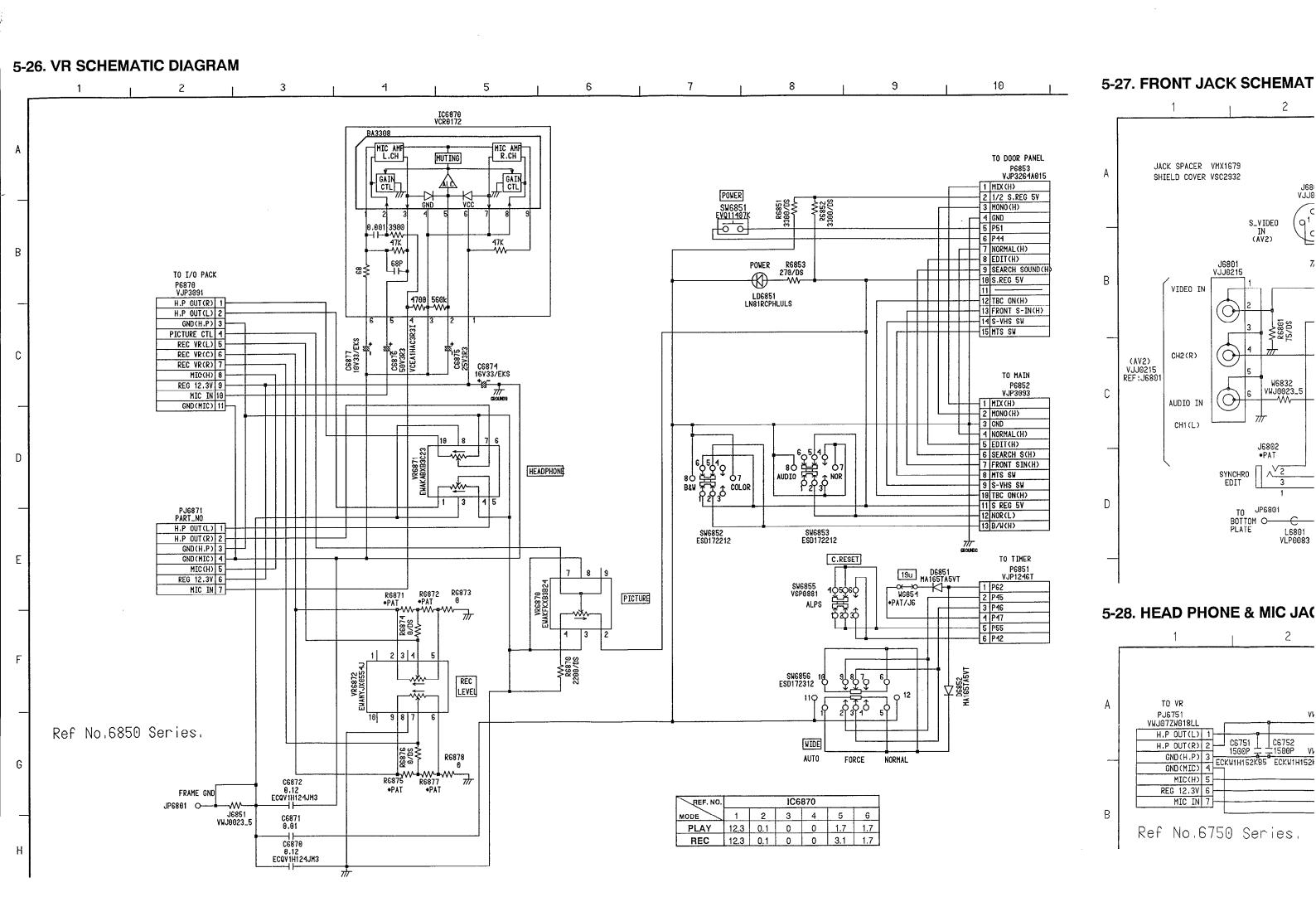


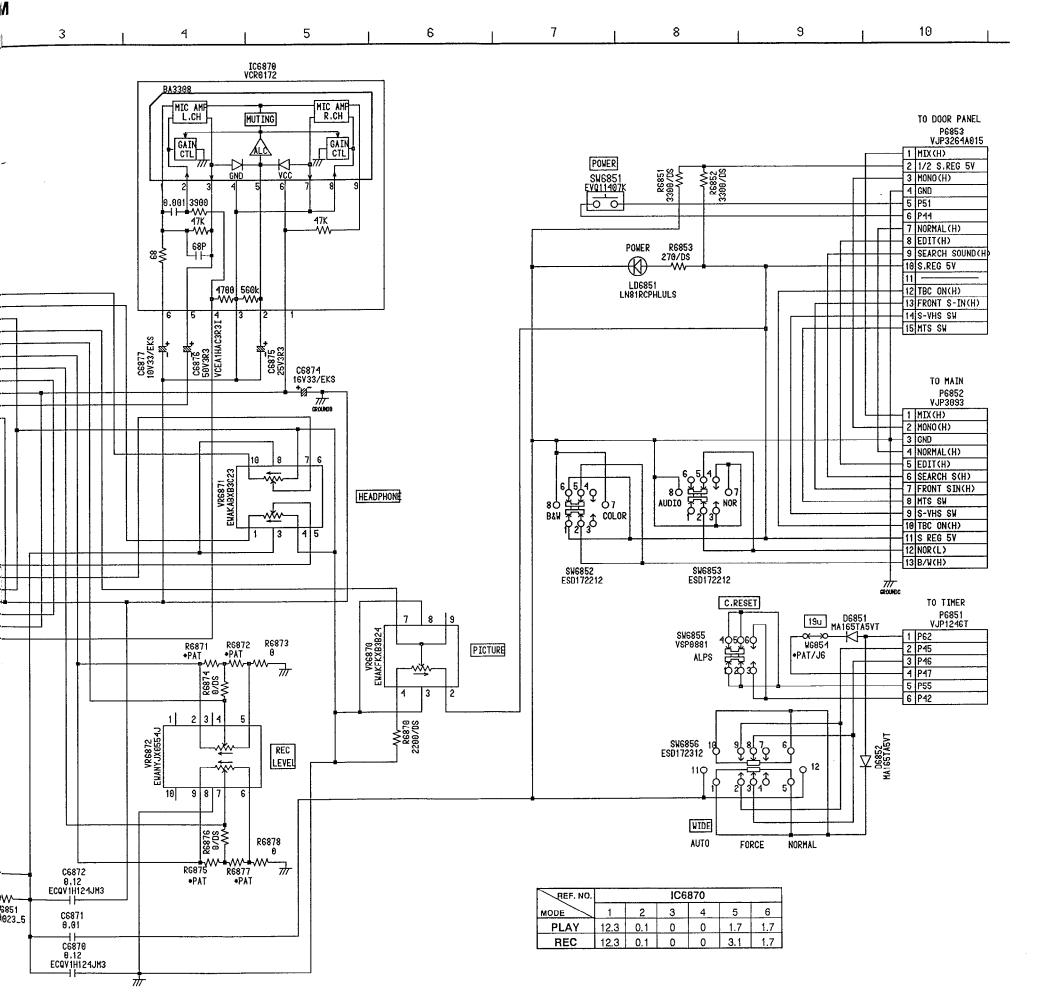
TIMER C.B.A.

	·									100										-
REF. NO.								T		IC6	502									
MODE	1	2	_ 3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.7	1.7	0	1.7	0	0	0	0	5.0	2.2	1.3	0	4.3	4.2	-26.5	-26.5	<u>–26.5</u>	1.8	-26.5	-26.5
REF. NO.	ļ				IC6	502														
MODE	21	22	23	24	25	26	27	28	29	30										
STOP	-26.5	-26.5	-26.5	-26.5	-26.5	-26.5	2.0	-26.5	5.0	3.1			L							
REF. NO.		IC6503																		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	5.1	1.9	1.9	0	2.1	2.5	4.2	5,1	5.1	<u>5</u> .1	5.1	5.1	5.1	4.8	5.1	0	0.3	5,0	4.9	5.0
REF. NO.	IC6503																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.1	4.2	4.6	4.6	4.9	5.1	4.1	2.6	0	2.7	2.4	2.3	0	0	0	0	0	-23.5	-23.5	-23.5
REF. NO.										IC6	503									
MODE	41	42	43	44	. 45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	-23,5	-23.5	-23.5	-23.5	-23.5	-23.7	1.2	-23.1	-14.0	-13.5	-14.0	-20.2	-14.6	-14,6	-14.4	-22.8	-17.6	-14.1	-22.9	-17.7
REF. NO.		IC6	503				IC6504					IC6505			IC6506					
MODE	61	62	63	64	1	2	3	4	5	6	7	8	1	2	3	0	G	V		
STOP	-16.0	-14.8	-14.7	-26.5	5.0	4.8	4.1	5.1	0	0	5.1	5.1	5.1	5.1	0	5.1	0	5.1		
REF. NO.		C6507			Q6501															
MODE	O	G	>	Е	С	В														
STOP	5.1	0	5.1	0	14.2	6										·				
REF. NO.	. QR6501 QR6502 QR6503						G	QR6504 QR6505				5	QR6506							
MODE	Ш	С	В	ш	С	В	E	С	В	Ε	С	В	Е	C	В	Е	С	В		
STOP	5.0	-24.0	4.4	4.9	-24.0	4.2	5.0	4.9	1.2	0	0	5,1	5.0	2.4	5.0	5.0	2.3	5,0		
DEE NO	C	QR6507 QR6508 QR6509						QR650	9	C	QR6510 QR6511				1					
REF. NO.														_	_					
MODE NO.	Ε	С	В	Ε	С	В	E	C	В	E	C	B	E	С	В					
	E 5.0	C 2.2	B 5,0	5.0	C 2.3	5.0	5.0	2.2	B 5,1	5,0	2.2	5.1	5.0	2.2	<u>в</u> 5.1					

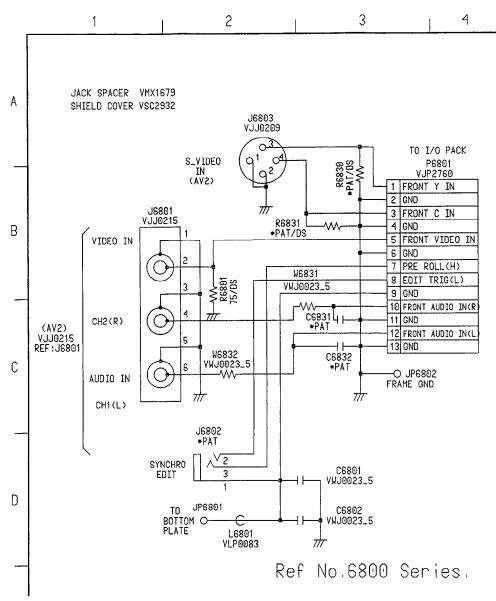
	TIMER C.B.A.										
Transistor		Integrated	Circuit	Adjustmer	nt						
Q6501	B-1 (F),(C)	IC6502	F-1 (F),(C)	VR6501	C-2 (F),(C)						
Transistor	& Resistor	1C6503 1C6504 1C6505	D-3 (F),(C) B-3 (F),(C) F-2 (F),(C)	Connector							
QR6501 QR6502 QR6503	E-2 (F) F-2 (F) E-2 (F)	E-2 (F)		P6501 P6502 P6503	G-1 (F),(C) B-3 (F),(C) D-3 (F),(C)						
QR6504 QR6505 QR6506	B-3 (F) A-1 (F)	Test Point		P6504 P6505	G-2 (F),(C) A-2 (F),(C)						
QR6507 QR6508 QR6509 QR6510 QR6511	A-1 (F) A-2 (F) A-2 (F) A-2 (F) A-3 (F) A-3 (F)	TP6501 TP6502 TP6503 TP6504	F-3 (F),(C) F-3 (F),(C) F-3 (F),(C) F-3 (F),(C)								

ADDRESS INFORMATION
(F) FOIL SIDE
(C) COMPONENT SIDE

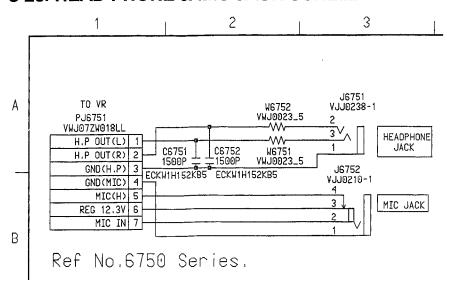




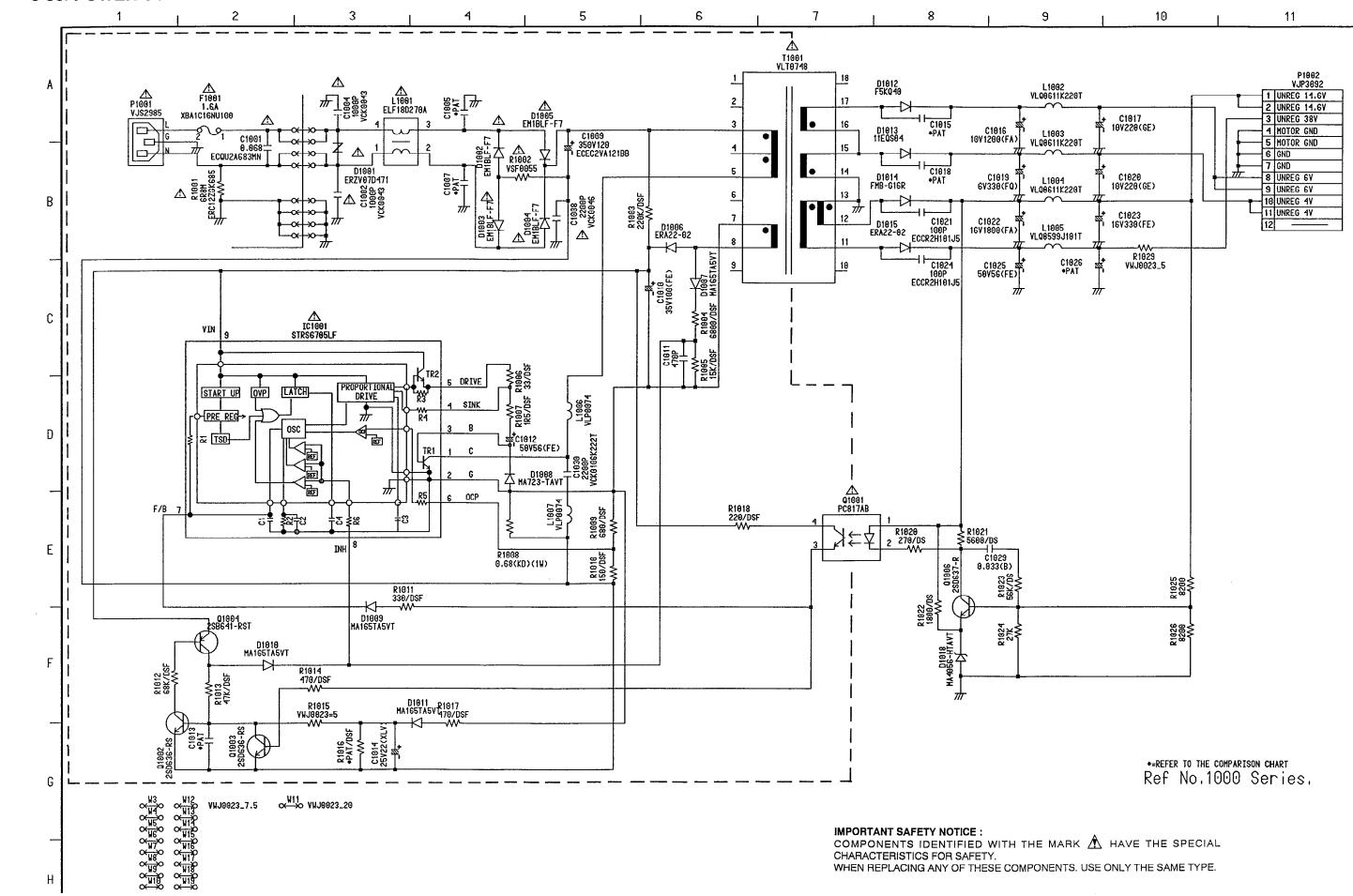
5-27. FRONT JACK SCHEMATIC DIAGRAM



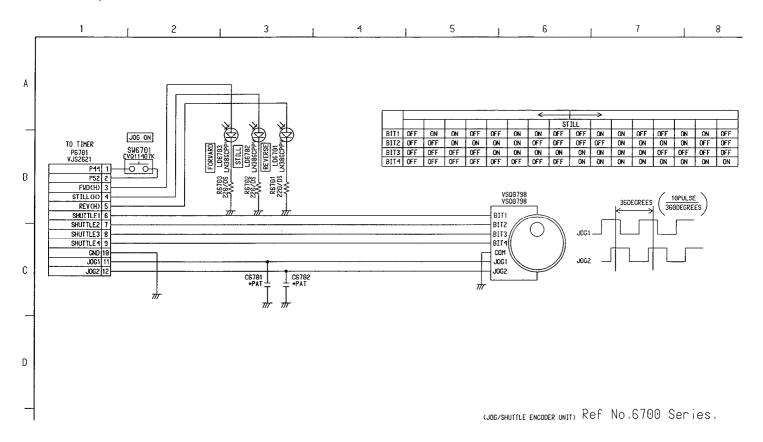
5-28. HEAD PHONE & MIC JACK SCHEMATIC DIAGRAM



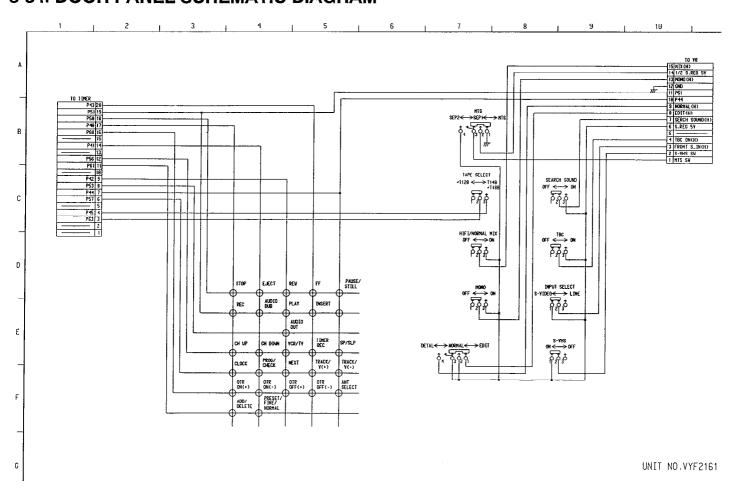
5-30. POWER SCHEMATIC DIAGRAM

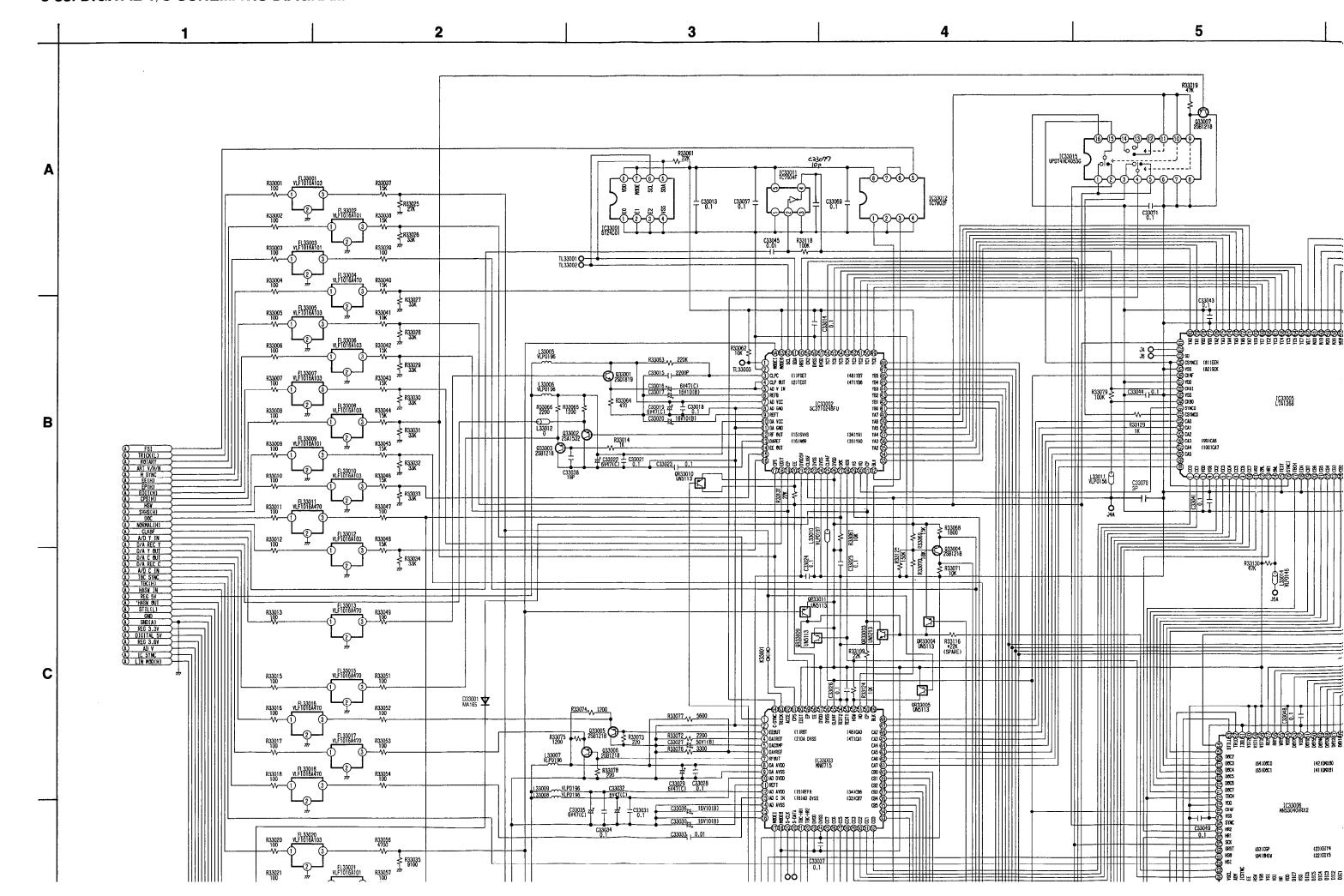


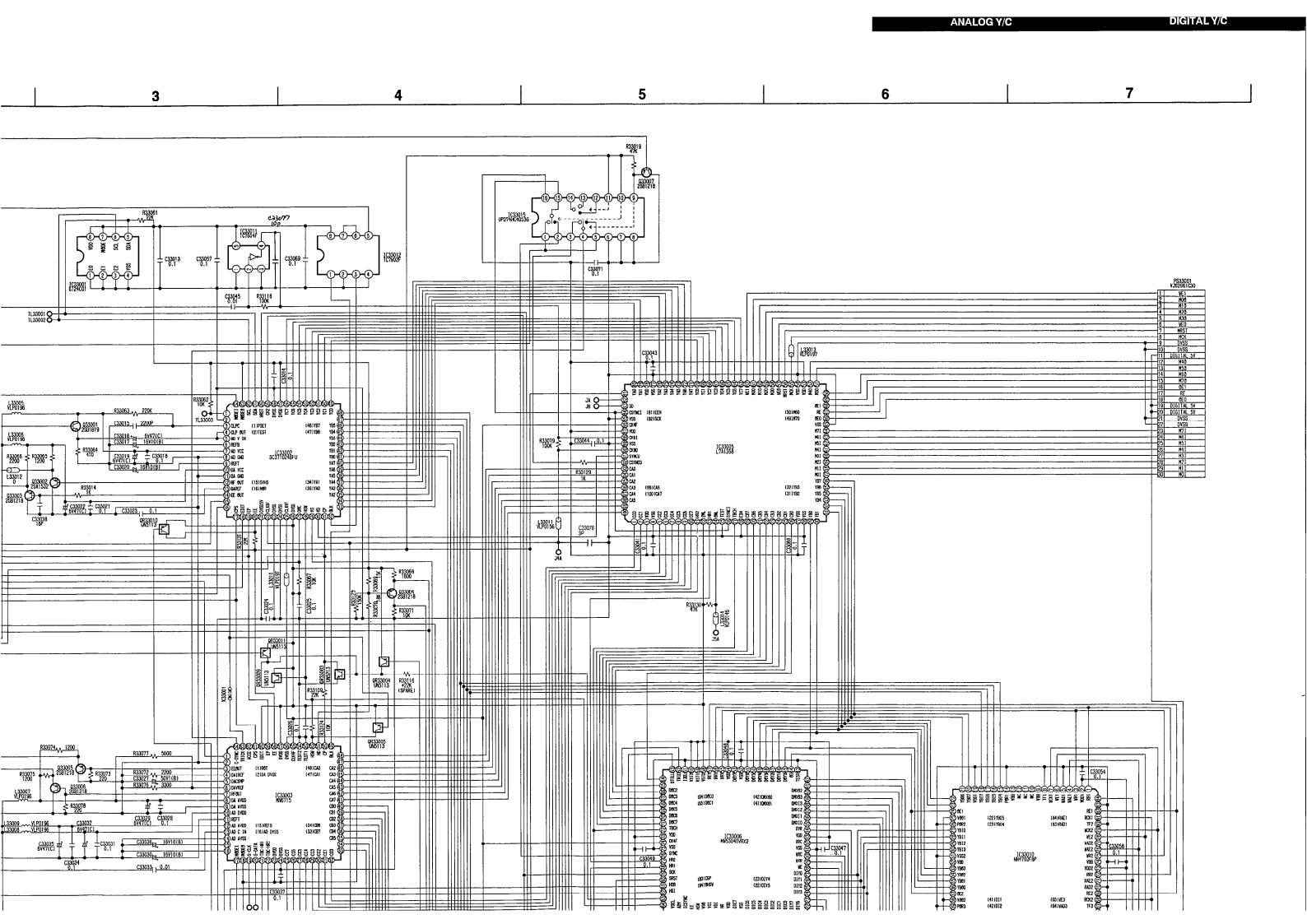
5-33. JOG/SHUTTLE SCHEMATIC DIAGRAM

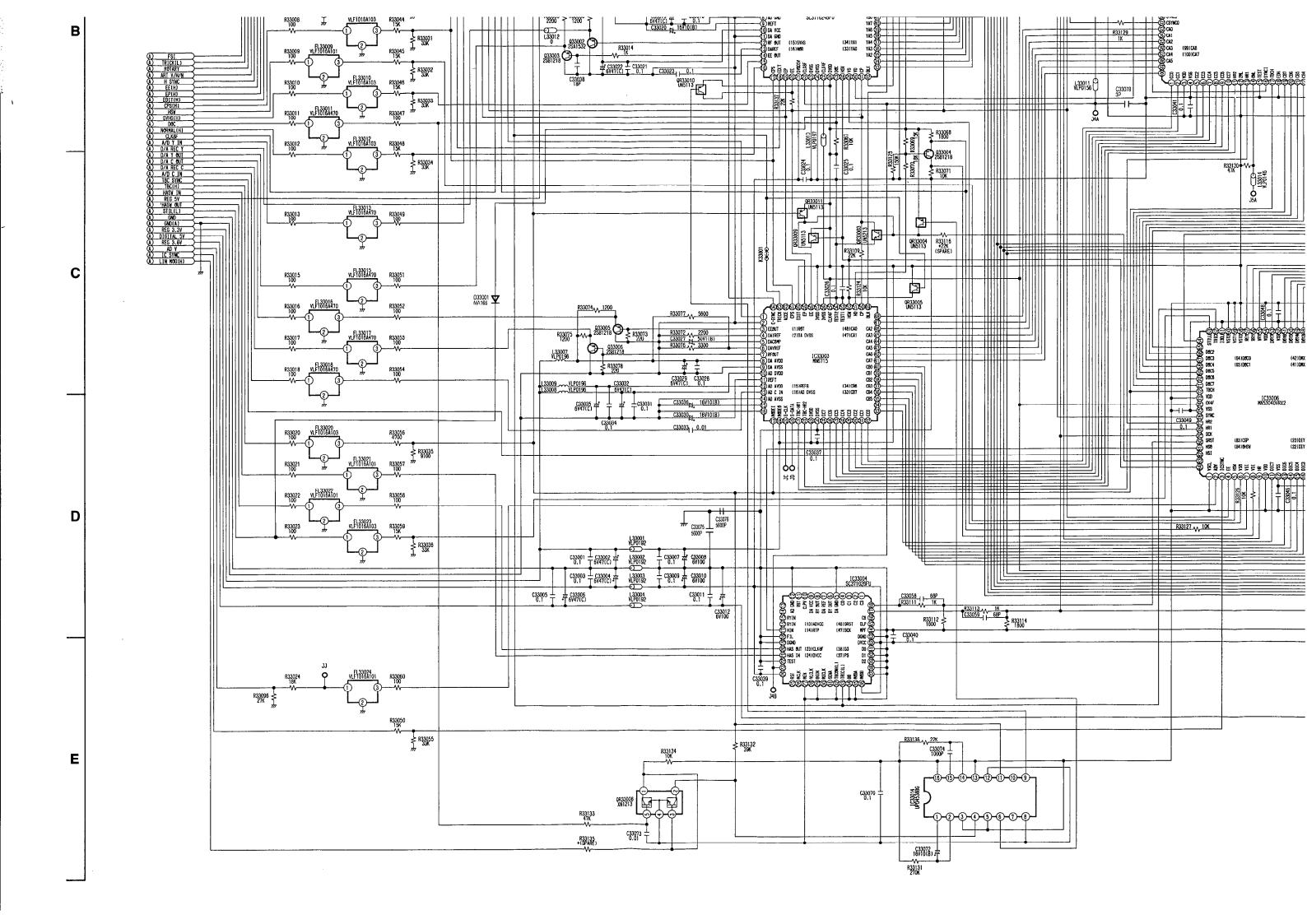


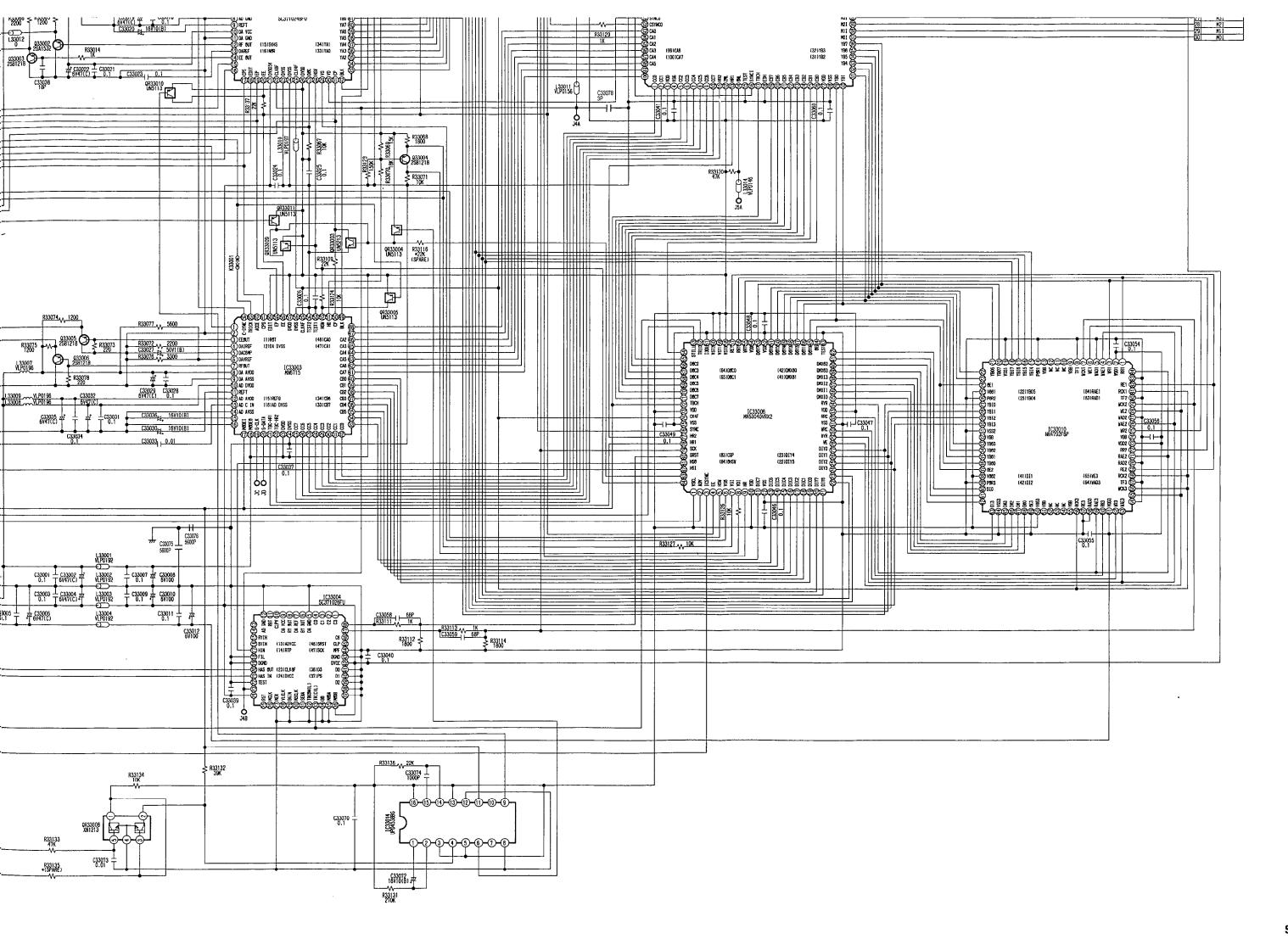
5-34. DOOR PANEL SCHEMATIC DIAGRAM



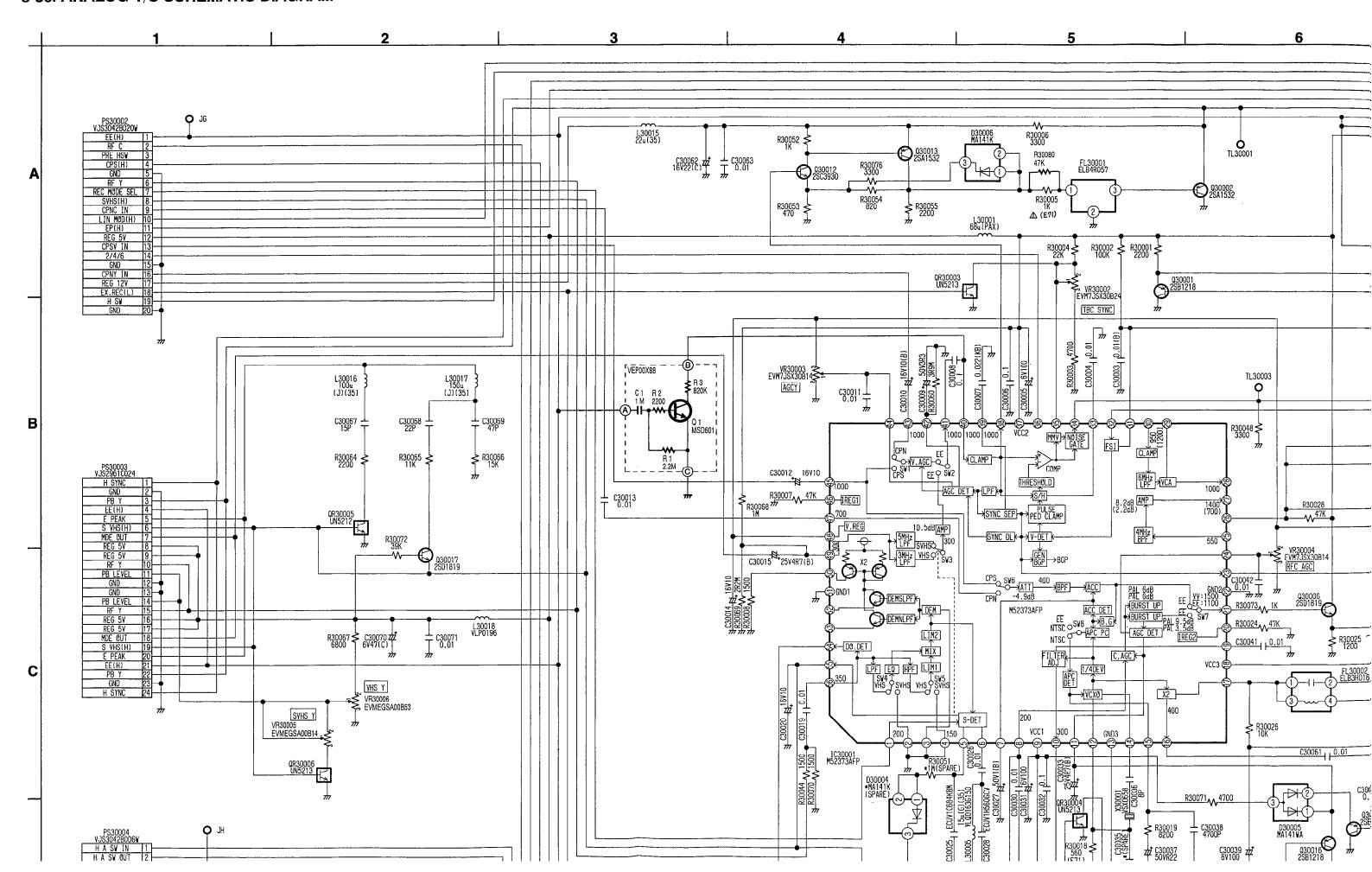


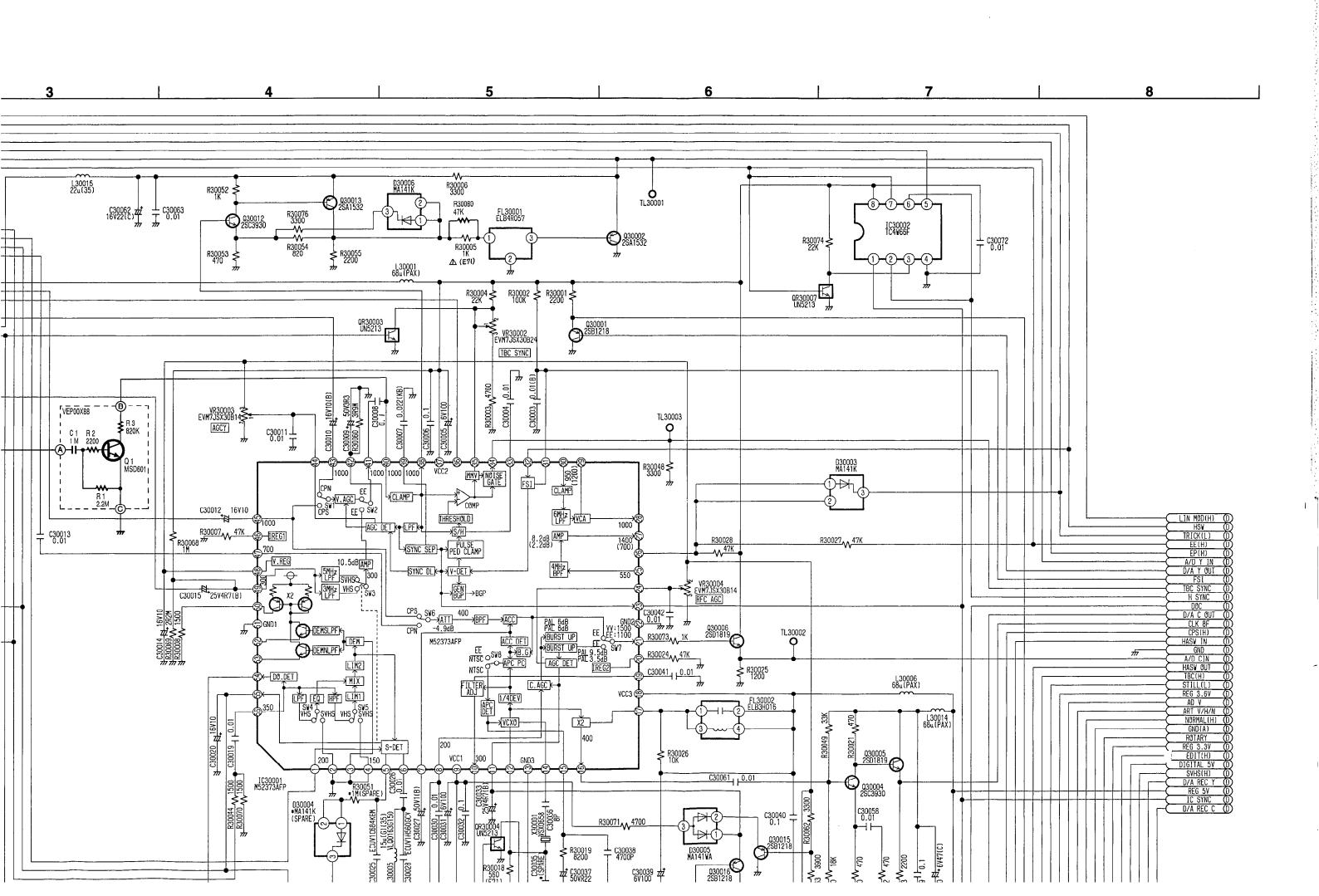


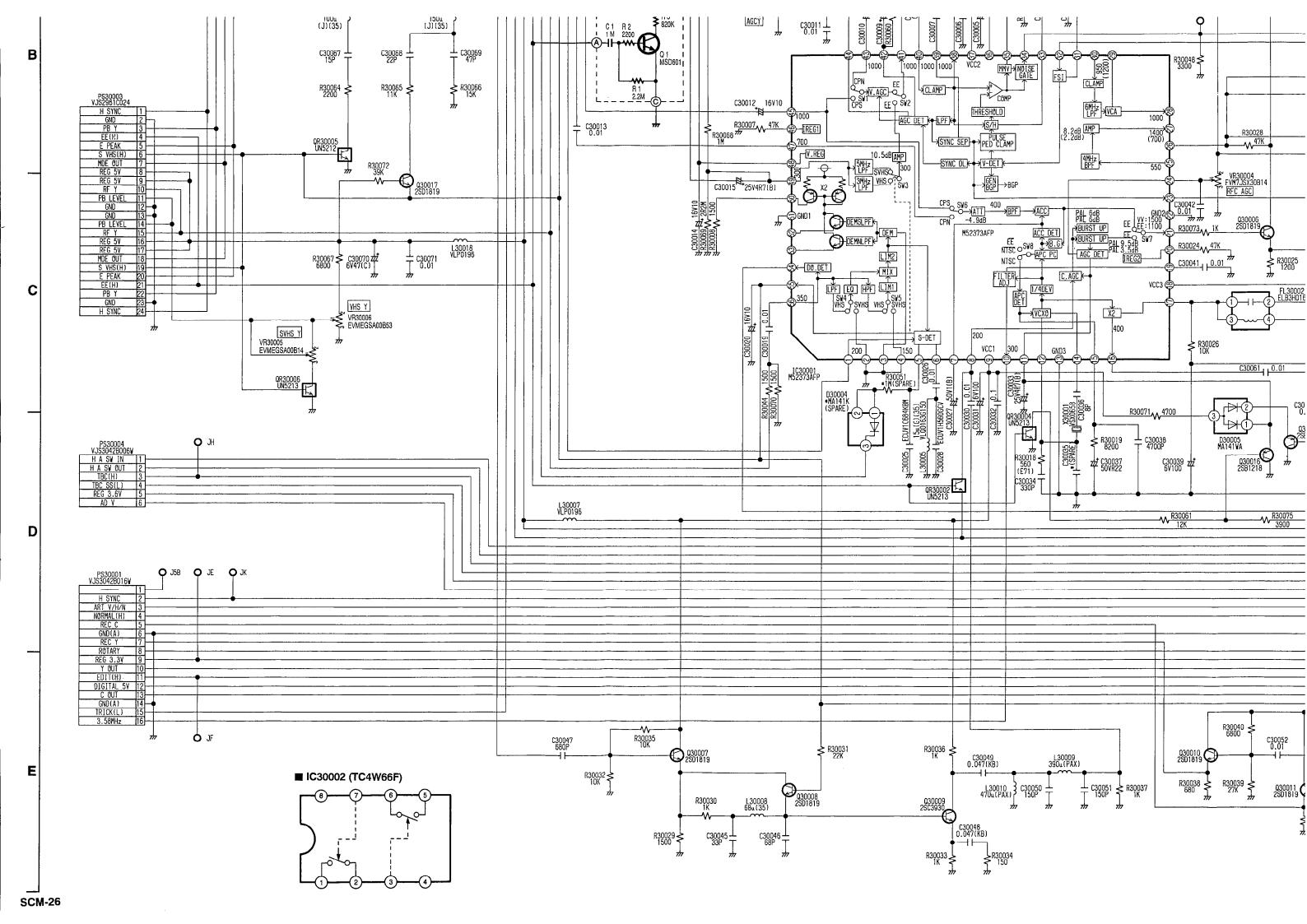


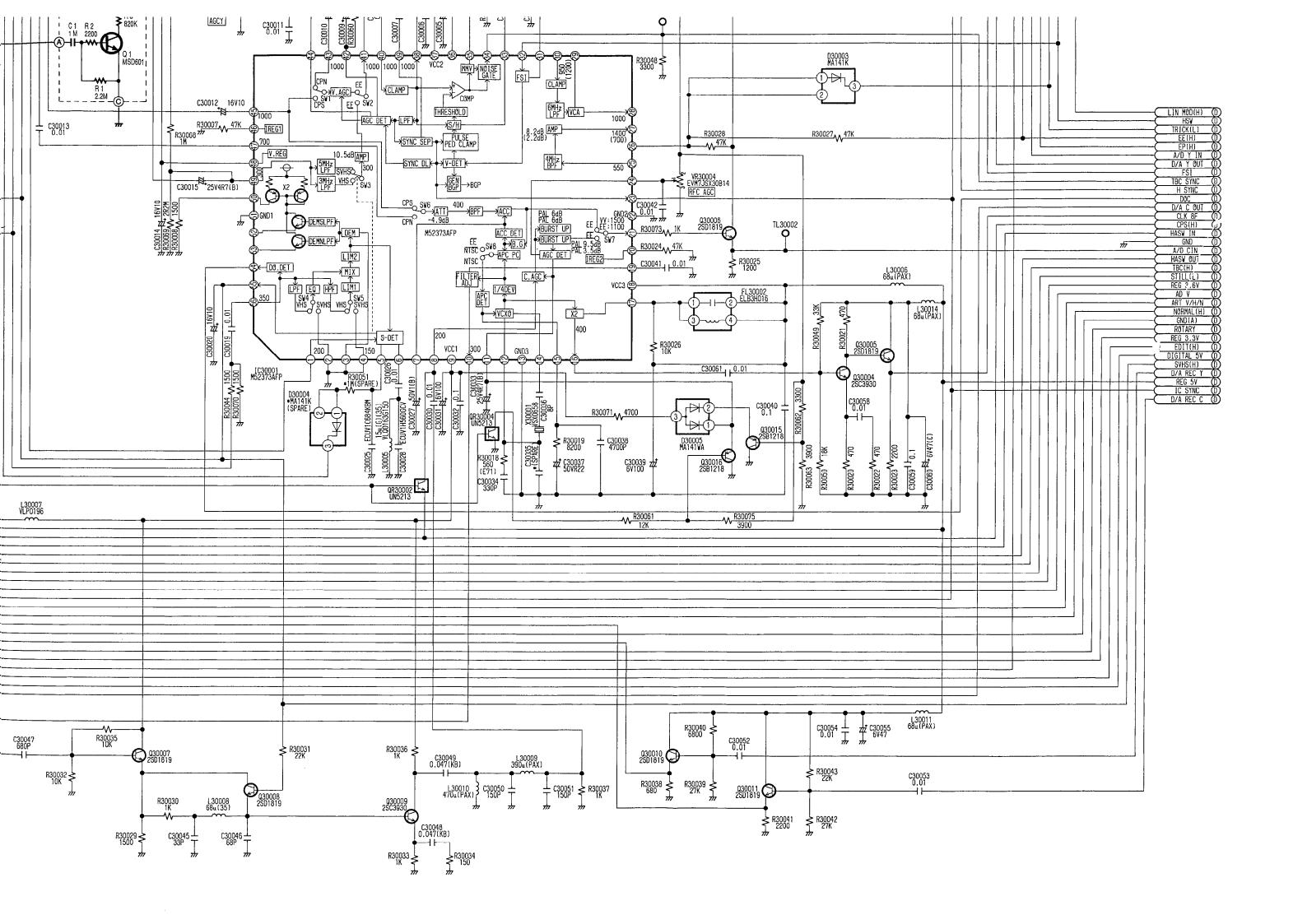


5-36. ANALOG Y/C SCHEMATIC DIAGRAM









DIGITAL Y/C C.B.A.

DIGITA	L Y/	ر. ال	D.A.																	
REF. NO.			,	IC3	3001								,							
MODE	1	2	3	4	5	6	7	8												
PLAY	0	0	0	0	1.8	1.6	3.3	3.3												
REF. NO.				,							1C3300)2]
MODE	1_1_	2	3_	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	0	2,6	1.7	1.7	0.4	5.1	0	3.5	5.1	0	1,2	1.5	0.8	0.1	2.8	3.4	0	0	0
REF. NO.				,							IC3300)2	,		,				,	
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	5.2	1.9	0	0	1.6	3.3	3.0	3.3	0	0	0	2.8	1.6	1.6	1.6	1.4	0.9	1.2	1.7	1.2
REF. NO.									,		IC3300)2	,	,					,	
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	1.6	1.6	1.6	1.3	0.8	1.1	1.8	1.2	1.7	1.8	1.7	1.4	0.9	1.1	0	1.2	3,3	0	0	0
REF. NO.		IC33	1		ļ								,							т
MODE	61	62	63	64	ļ															
PLAY	1.8	0	3.3	0.1	<u>L</u>	L		l			<u> </u>	<u> </u>	<u></u>			l				\sqcup
REF. NO.	ļ	Ι	г	Τ	1						IC3300		1			1			1	
MODE	1	2_	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.3	0	0.4	1.1	2.4	1.1	0.4	3.3	0	3.3	2.4	3.3	1,6	0	0.6	0	0.1	3.3 ·	0	0
REF. NO.				1 -	1 -:			I			IC3300				Γ	Γ .				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34.	35	36	37	38	39	40
PLAY REF. NO.	3.2	3.2	3.3	0	2.2	1.2	1.1	1.3	1.3	1.2	1.3	1.3	2.0	0.8	1.0	1.1	1.2	1,1	1.1	1.3
	41	40	42	144	AE-	40	47	40	40		IC3300		50	E 4	FF	50	r →	150	-FC	
PLAY	1.2	1.7	43 1.1	0.9	45 1.4	46 1.6	<u>47</u> 1.7	1.6	49 2.9	50 0	51 3.0	52 3.2	53	54 0	55	56 0	57	`58 0	59	60
REF. NO.	1.2		3003	0.9	1,4	1.0	1,7	1.0	2.9	<u> </u>	3.0	3.2	<u> </u>			<u> </u>		<u> </u>	0	3.3
MODE	61	62	63	64									· · · · · ·							-
PLAY	3.4	3.3	3.1	3.1																
REF. NO.	3.4	0.0	<u>, , ,</u>	1.0.1	L			l	<u> </u>		IC3300)4	l		L	L	l	L	L	<u></u>
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	0	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0.2	0	0.2	0.3	3.2	0	0	0
REF. NO.	<u> </u>	<u> </u>	<u> </u>	1 0.1	1				<u> </u>		IC3300		U.Z.		_ U.Z.	0.0	0.2		<u> </u>	
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	0	0	1.7	5.1	3.9	2.0	0	2.0	0	0	0.1	0	3.1	0	0	5.2	0	0	0	0
REF. NO.		<u> </u>			3004						<u> </u>	······	<u> </u>			0.0			<u> </u>	
MODE	41	42	43	44	45	46	47	48												
PLAY	0	5.1	0	0	0	0.7	1.8	3.3												
REF. NO.									<u> </u>		IC3300)5								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1,3		3.2	0	1.2	1.2	1.2	1.1.	-		2.5		3.2	0	0	0	0	0	2.1	1.0
REF. NO.											IC3300					·				
MODE	21	22	23 -	- 44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	1.0	1.2			0	1.8	1.5	1.4	1.4	0	1.2	0.8	3.2	0	2.0	3.3	3.8	1.2	1.4	1.3
REF. NO.									·		IC3300									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	1.5	3.8	1.2	1.7	1.2	0.8	1.4	1.7	1.7	1.6		1.7	1.1	0.9	1.4	1.7	0	3.2	1.5	1.6
REF. NO.								.,			IC3300									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
PLAY	0	0	0	0	0	1.6	3.2	1.7	0	1.9		0	1.6	1.5	1.6	1.4	0.8	1.1	1.7	1.2
REF. NO.											IC3300)6								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.2	0	0	0	3.3	0	0.4	0	0	3.2		0	1.0	0.9	0.1	1.1	1.1	0.1	1.6	1.2
REF. NO.											IC3300)6								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.9	1.0	0.1	1.3	0	1.6	1.5	0	3.3	3.2		3.2	3.3	3.3	1.6	1,5	1.4	1.8	1.7	1.2
REF. NO.											IC3300)6								
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
PLAY	1.1	1.3	0	3.2	1.6	1.6	1,6	1.3	0.7	1.0	1.8	0	1.2	3.2	3.2	3.3	0.4	3,3	3.2	3.3
REF. NO.											IC3300)6								
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	0	3,1	3.3	1.3	1.1	1.2	1.2	1.2	1.1	1.1	2.1	0.1	3.3	1.6	0	0	3.2	3.2	1.4	2.1
																			_	

VOLTAGE CHARTS

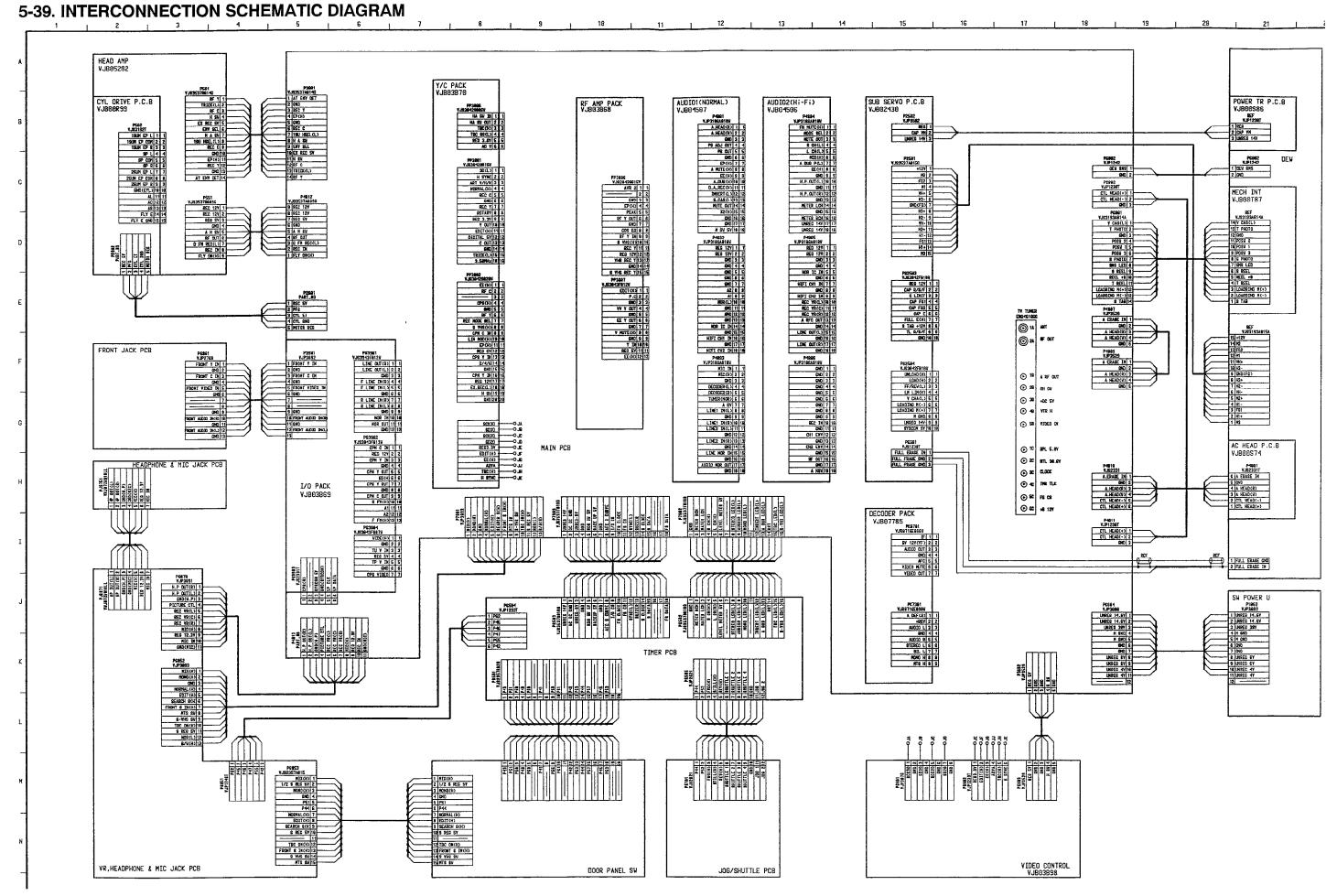
DIGITAL Y/C C.B.A.

DIGITA		<u> </u>	<u> </u>																	
REF. NO.		IC3	3006													,				
MODE	81	82	83	84																
PLAY	3.2	3.1	3,2	3.3																
REF. NO.											IC3301	0								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	3.2	3.7	3.2	3.2	0	0	0,1	0	0	0.4	0.4	0.4	0	0	0.8	1.0	1.8	1.2	0	1.2
REF. NO.											IC3301	0								
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	1.8	1.0	0.8	3.2	3.2	0	1.5	1.5	1.6	1.3	0	0	1.4	1.6	1.6	1.6	3,2	3.3	0	1.3
REF. NO.											IC3301	0								
MODE	41	42	43	44	45	46_	47	48	49	_50_	51	52	53	54	55	56	57	58	59	60
PLAY	1.2	1.2	1.7	0	1.8	1.5	1.5	1.6	0	0.4	-0.8	0,5	0.6	0.6	-0.8	1.6	0	0	3.3	3.2
REF. NO.											IC3301	0								
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
PLAY	3.7	3,3	3.3	0	-0	1.7	0	1.7	0.4	0	3.2	3.2	3.7	-0.8	3.2	-0.8	0	0	1.4	0
REF. NO.		IC33	3010			(0	C3301	1					IC33	012						
MODE	81	82	83	84	1_	2	3	4	5	1	2	3	4	5	6	7	8			
PLAY	1.6	0	0	3.2	0	1,5	0_	1.8	3.3	2.9	0	2.8	0	0.1	0.3	0.3	0			
REF. NO.			,					IC3	3014											
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
PLAY	0	3.2	3,2	0,1	3.2	0	3.2	0	3.3	0	0.1	0	3.2	3.2	0	3.3				
REF. NO.		,						IC3	3015								(233001		
MODE	11	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Е	O	В	
PLAY	0.2	0	0	0,2	0.2	0	0	0	0	0	0	0	-0.2	-0.2	0	3.3	2.1	5.1	2.7	L
REF. NO.		233002	2	-	23300	3	(Q3300	4	- (Q3300	5		Q3300	6	(233007	7		
MODE	E	С	В	E	С	В	E	С	В	E	С	В	Е	С	В	E	С	В		
PLAY	1.9	0	1.2	1.4	0	0.8	0.7	0	3.0	1.0	0	0.4	1.0	0	0.4	0	0	3.4		
REF. NO.	Q	R3300	3	C	R3300	14	C	R3300)5		C	R3300	8		C	R3300)9	Q	R3301	0
MODE	E	С	В	Е	С	В	E	С	В	1	2	3	4	5	Е	С	В	Ε	С	В
PLAY	0	0	3.2	3.3	3.2	0	3.2	3,2	3.1	0	0.1	0	0	1.8	3.2	3.2	3.2	0.5	0	3.2
REF. NO.	C	R3301	1																	
MODE	E	С	В																	
PLAY	3.2	3.2	0.1																	

ANALOG Y/C C.B.A.

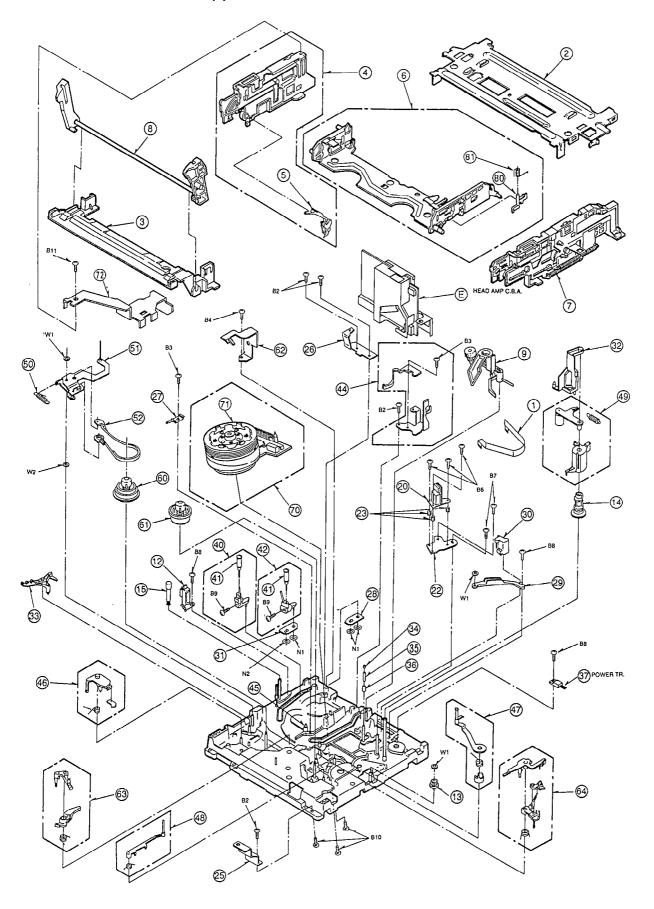
ANALU	<u>u 1/</u>	<u> </u>	D.A																	
REF. NO.										IC30	0001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	5.1	٥	0.2	0	0.4	3.3	0.2	3.0	5.1	2.0	2.9	3,6	0	2.3	1.4	3.7	5.1	5.1	2.7	0.8
REC	5.1	0	0.2	0	3.0	3.3	2.9	4.1	5.1	2.0	2.5	3.6	0	2.3	1.4	3.7	5.1	5.1	2.7	0.9
REF. NO.										IC30	0001									
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
PLAY	2.7	0	0.3	0.7	3.3	2.4	2.1	2.3	0.1	3.1	2.8	4.8	3.3	3.1	2.0	0	4.9	1.6	2,7	2.9
REC	2.7	0	0.4	0.7	3,3	4,9	2.1	2.3	0.3	3.2	2.8	4.6	3.3	2.9	0	0	4.9	1.7	2.7	3.0
REF. NO.										IC30	0001									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
PLAY	1.5	1.5	3.0	2.3	3.0	0.9	3.0	3.0	3.4	0	0	0.8	2.6	3.0	0.1	3.0				
REC	1.8	2.1	3.0	2.3	3.0	0.9	3.0	3.0	3.0	0	0	0.6	0.7	2.2	0.1	3.2				
REF. NO.				1C30002						Q3000	1	•	230002	2		Q3000 ₄	4	(30005	5
MODE	1	2	3	4	5	6	7	8	ш	С	В	ш	С	æ	Е	С	В	ш	С	В
PLAY	0.3	0.3	0	0	0.3	0.3	0	4.9	2.1	0	1.4	2.7	0	2.0	0.8	4.1	1.6	3.5	5.1	4.1
REC	0.4	0.4	0	0	0.3	0.4	4.9	4.9	2.0	0	1.4	2.8	0	2.0	0.9	4.2	1.6	3.6	5.1	4.1
REF. NO.		Q3000	6	(3000	7	C	30008		U	30009)	(230010)	Q	30011			
MODE	E	C	В	E	С	В	Е	С	В	Е	С	В	E	C	В	_ E	С	В		
PLAY	2.0	4.9	2.6	1.9	5.1	2.5	1.9	1.9	0,1	1.2	3.9	1.8	5.0	5.1	4.1	5.0	5.1	2.8		
REC	2.0	4.9	2.6	1.9	5.1	2.5	1.9	1.9	0.1	1.2	3.9	1.9	3.3	5.1	3.9	5.0	5.1	2.8		
REF. NO.		Q3001	2	(23001	3	G	30015	1	(30016	;	(330017	,					
MODE	Ε	С	В	E	С	В	E	С	В	Е	С	В	E	С	В					
PLAY	0.9	11.6	1.6	12.2	2.0	11.5	2.2	0	1.6	2.9	0	3.0	0.1	0.1	0.7					
REC	0.9	11.6	1.6	12.3	1.9	11.6	2.2	0	1.6	2.4	0	2.2	0.1	0.1	0.7					
REF. NO.	(R300)2	Q	R3000)3	q	R3000	4	Q	R3000	5	Q	R3000	6	Q	R3000	7		
MODE	E	С	В	Ε	С	В	E	С	В	E	С	В	Е	C	В	E	С	В		
PLAY	5.0	3.0	0	0	2.0	0	0	3.0	0	0	0.4	0.1	0	1.2	0.1	0	4.9	0		
REC	5.0	4.1	4.9	0	0	3.9	0	0	4.9	0	0.4	0.1	0	1.2	0.1	0	0	4.9		

ANALOG Y/C SUB C.B.A. INTERCONNECTION INTERCONNECTION ANALOG Y/C SUB C.B.A.



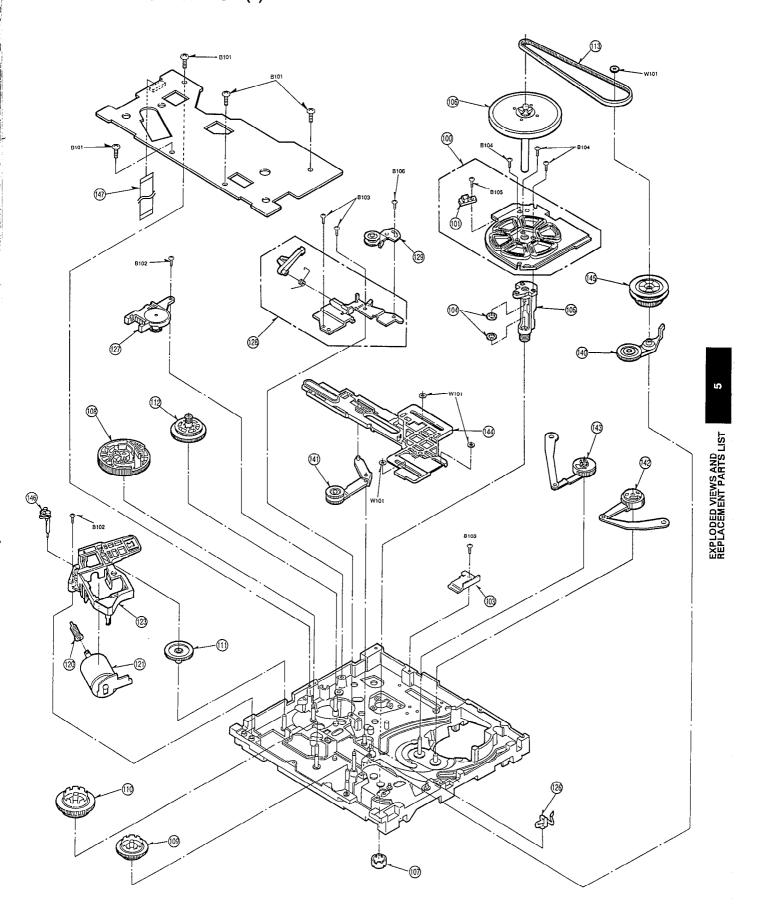
SECTION 6. EXPLODED VIEWS & PARTS LIST 6-1. EXPLODED VIEW MECHANICAL REPLACEMENT PARTS LIST

1. CHASSIS PARTS SECTION (1)

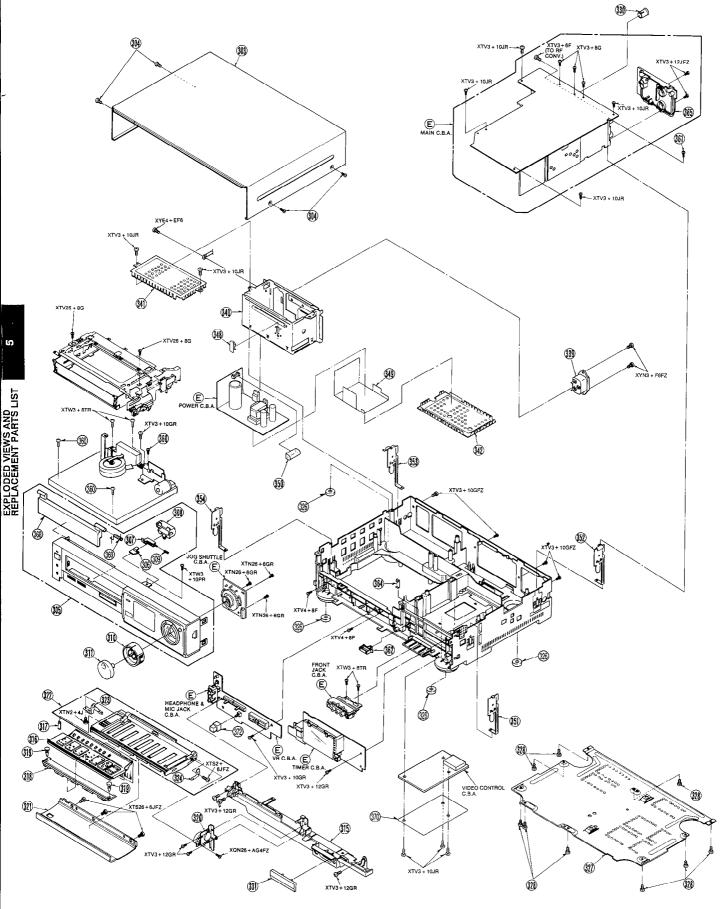


Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	s Remarks
1(1)	VWJ0758	FLEXIBLE CABLE (6P)	1	P4001-P1501	100(2)	VEK5927	STATOR UNIT	1	
2(1)	VMA8644	TOP PLATE	1		101(2)	VBK0061	FG HEAD	1	
3(1)	VMA8787	CASSETTE GUIDE	1		103(2)	VMA8930	ROTOR STOPPER	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1		104(2)	VMX1927	OIL SEAL	2	
5(1)	VML2902	OPENER LEVER UNIT	1		105(2)	VXD0140	HOUSING UNIT	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1		106(2)	VXP1528	ROTOR UNIT	1	
7(1)	VXA4806	SIDE PLATE (R) UNIT	1		107(2)	VXQ0297	THRUST SCREW UNIT	1	
8(1)	VXP1339	MAIN SHAFT UNIT	1		108(2)	VDG0913	MAIN CAM GEAR	1	
9(1)	VML2440	CLEANER ARM BASE	1		109(2)	VDG0956	SUPPLY REEL GEAR	1	
12(1)	VBS0052	FE HEAD	1		110(2)	VDG0957	TAKE UP REEL GEAR	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1	TV-W	111(2)	VDG0868	WORM WHEEL GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1		112(2)	VDG0885	SUB CAM GEAR	1	
15(1)	VXP1517	IMPEDANCE ROLLER UNIT	1	****	113(2)	VDV0235	TIMING BELT	1	
20(1)	VED0217	A/C HEAD (1) UNIT	1		120(2)	VDG0866	WORM GEAR	1	
22(1)	VMA8624	A/C HEAD BASE	1		121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
23(1)	VMB2515	A/C HEAD SPRING	3		123(2)	VMD1942	MOTOR BRACKET	1	
25(1)	VMA8761	MOUNT ANGLE	1		126(2)	VML2725	IDLER CONTROL LEVER	1	
26(1)	VMA8810	HEAD AMP MOUNT ANGLE (L)	1	10. 500	127(2)	VSS0365	MODE SW	1	
27(1)	VMC0917	EARTH SPRING	1		128(2)	VXA5138	SS BRAKE BASE UNIT	1	
28(1)	VMA8874	INCLIND BASE HOLDER (S)	1		129(2)	VXA4799	TENSION ROLLER UNIT	1	
29(1)	VMD2078	P5 STOPPER BASE	1		140(2)	VXL2378	IDLER ARM UNIT	1	
30(1)	VXA4927	P5 POST STOPPER	1		141(2)	VXL2372	DIRECT LEVER UNIT	1	
31(1)	VMA8873	INCLIND BASE HOLDER (T)]		142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
32(1)	VMD2101	OPENER PIECE	1		143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
33(1)	VML2776	TENSION SPRING ARM	1		144(2)	VXL2307	MAIN LEVER UNIT	1	
34(1)	VMX1544	P4 UPPER LIMITER	1		145(2)	VXP1409	CENTRE CLUTCH	1	
35(1)	VMX2175	P4 SLEEVE	1		146(2)	VMD2153	S-VHS SW ACTUATER	1	
36(1)	VMX2176	P4 LOWER LIMITER	1		147(2)	VWJ14AW230M0	FLEXIBLE CABLE	1	
37(1)	2SB941PSW	POWER TRANSISTOR	1		B101(2)	XTV26+6FR	SCREW	1	
40(1)	VXA5245KIT	INCLINED BASE (S) UNIT	1		B102(2)	XTV26+8F	SCREW	2	
41(1)	VXP1415	ROLLER POST	2	****	B103(2)	XTV26+6F	SCREW	3	
42(1)	VXA5247KIT	INCLINED BASE (T) UNIT	1		8104(2)	VHD0753	SCREW	3	
44(1)	VXA5170	HEAD AMP MOUNT ANGLE (R) U.	1		B105(2)	VHD0754	SCREW	1	
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1		B106(2)	XSB26+4FZ	SCREW	1	
46(1)	VXL2310	REVIEW ARM UNIT	1		W101(2)	VMX2208	WASHER	4	
47(1)	VXL2306	P5 ARM UNIT	1						
48(1)	VXL2394	TAKE UP TENSION REGULATOR	1						
	<u></u>	ARM UNIT							
49(1)	VXL2246	PINCH ARM UNIT	1						
50(1)	VMB2434	TENSION SPRING	1	***************************************					
51(1)	VXL2309	TENSION ARM (1) UNIT	1						
52(1)	VXZ0310	TENSION BAND UNIT	1						
60(1)	VXR0236	SUPPLY REEL TABLE UNIT	1						
61(1)	VXR0237	TAKE UP REEL TABLE UNIT	1	****					
62(1)	VXS0131	EARTH PLATE UNIT	1						
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1						
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1						
70(1)	VEG1207	CYLINDER UNIT	1						
71(1)	VXP1537	UPPER CYLINDER UNIT	1						
72(1)	VMA9201	CYLINDER ANGLE	1						
80(1)	VML2680	RELEASE LEVER	1			ļ.,			
81(1)	VMB2013	RELEASE SPRING	1		1				
B2(1)	XTV26+6F	SCREW	4	400					
B3(1)	XTV26+4F	SCREW	2		1				
B4(1)	XTN3+6FFZ	SCREW	1						
B6(1)	VHD0762	SCREW	3						
B7(1)	XTV26+6FZ	SCREW	2	****	11				
B8(1)	XTV26+8F	SCREW	3		11				
B9(1)	XQN2+AJ4	SCREW	2		1				
10(1)	VHD0342	SCREW	3	701					
11(1)	XTS26+8G	SCREW	1						
N1(1)	VHN0192	NUT	3						
N2(1)	VHN0193	NUT	_1						
W1(1)	VMX2208	WASHER	3						
W2(1)	XWGV26D5G	WASHER	1						
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2. CHASSIS PARTS SECTION (2)



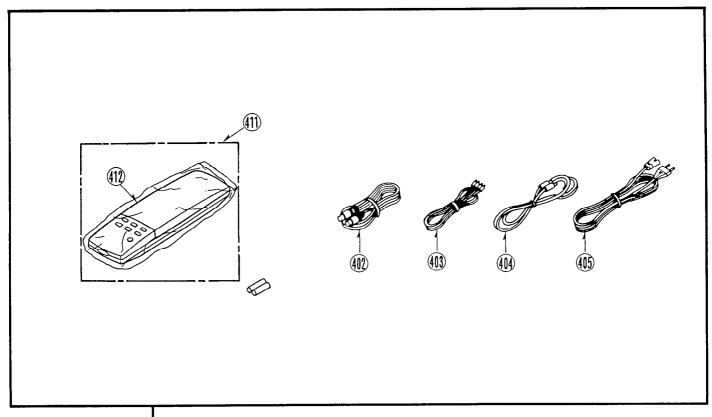
3. CASING PARTS SECTION

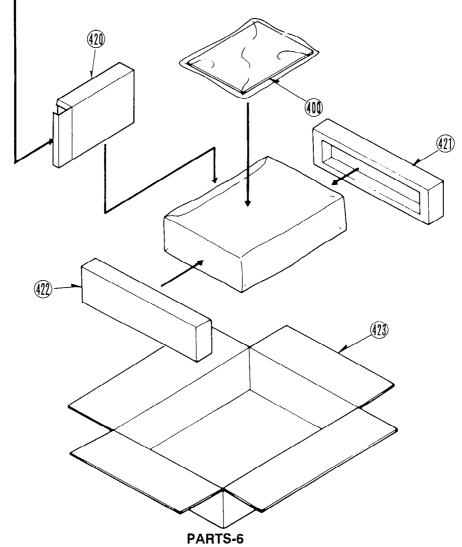


PARTS-4

Ref.No.	Part No.	Part Name & Description P	cs R	Kemarks	Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
303(4)	VGM1155	TOP PANEL	1		400(5)	+	VQT6096	OPERATING INSTRUCTIONS	1	
304(4)	VHD0165		4		402(5)	+	VJA0147	ANT CABLE	1	•
305(4)	VYP5850		1		403(5)		VJA0231	AUDIO CABLE	1	
306(4)	VGU5246		1		404(5)		VJA0658	S-VIDEO 4P CABLE	1	
307(4)	VGU4498		1		405(5)	T	VJA0488	AC CORD	1	
308(4)	VGU4829		1		411(5)		VEQ1711	REMOTE CONTROLLER	1	
309(4)	VMB1963	LOCK LEVER SPRING	1		412(5)		VKF2115	SLIDE DOOR PANEL	1	
310(4)	VGU5846		1		420(5)		VPK0825	ACCESSORIES PACKING	1	
311(4)	VXU1088		1		421(5)		VPN3400	CUSHION (R)	1	
315(4)	VYF2160	SUPPORT PANEL UNIT	1		422(5)	T	VPN3401	CUSHION (L)	1	
316(4)	VES0712	DOOR PANEL SW	1		423(5)		VPG7986	PACKING	1	
317(4)	VGU0466	PANEL LIGHT	1							
318(4)	VKF1852		1							
319(4)	VMG0657	DOOR CUSHION RUBBER	2							
320(4)	VXU1101	DOOR GEAR UNIT	1			T				
321(4)	VYC0654		1							
322(4)	VYP4016		1	-		П				
323(4)	VMC0522		1			Ħ	*********			
324(4)	VMP2314	DOOR PANEL ANGLE	1			Н	•			
327(4)	VKU0357		1			H				
328(4)	VHD0059	BOTTOM PLATE SCREW	1			H				
330(4)	VGQ1421		1			П				
331(4)	VKF1314	FRONT JACK COVER	1			Н				
336(4)	VKA0193	FOOT	2			H				
339(4)	VJS2985	·	1			H			T	1
340(4)	VXA3571		1			Н				
341(4)	VSC4224	POWER SHIELD PLATE (TOP)	1			Н			T	
342(4)	VSC2237	POWER SHIELD PLATE (BOTTOM)	1	-		Н				
344(4)	VSC2960	HEAT SINK (P)	1			Н				
346(4)	VGQ1615	IC HOLDER	1			Н			1	
347(4)	VMZ1455	INSULATION SHEET	1			H				
348(4)	VMC0357	TR. HOLDER SPRING	2	***************************************	1	Н				
349(4)	VMZ2381	BARRIER	1			Н				
350(4)	VMZ0429	FUSE COVER	1	-		Н			 	
351(4)	VMP2334	TOP HOLDER ANGLE (FRONT-R)	1			Н			 	
352(4)	VMP2335	TOP HOLDER ANGLE (REAR-R)	1	-		Н			!	
353(4)	VMP4683	TOP HOLDER ANGLE (REAR-L)	1			Н				
354(4)	VMP4682	TOP HOLDER ANGLE (FRONT-L)	1		1	Н				
360(4)	VHD0168	CHASSIS SCREW	3		-	Н			 	
361(4)	VHD0418	MAIN SCREW	1		+	Н			1	+
362(4)	VJF0102	WIRE SADDLE	1		-	Н			1	
364(4)	VMC0523	FRONT JACK EARTH PLATE	1			Н			1	-
365(4)	VJH0820	RF ANT TERMINAL PLATE	1			Н			1	
367(4)	VJF0974	FLEXIBLE CARD CLIP	1			Н				
368(4)	VKF2127	BLINDER PANEL	1		-	H				1
369(4)	VMB2521	SPRING	1	****	 -	Н			┼	
370(4)	VMZ1708	FRONT BARRIER	1		 	H			 	<u> </u>
372(4)	VGU6899	RESET BUTTON	1			H				
372(4)	1000033	, ALGER BOTTON			i -	Ħ			1	
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4. PACKING PARTS SECTION





6-2. ELECTRICAL REPLACEMENT PARTS LIST

lef.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
	VEP06A07A	P.C.BOARD W/COMPONENT JOG ENCODER	1	(RTL)∢R>		VEP06A07A	P.C.BOARD W/COMPONENT JOG ENCODER	-	
	VERGLEST		L.:						
	VEP01617A	P.C.BOARD W/COMPONENT POWER	1	(RTL) -< > </td <td></td> <td></td> <td></td> <td>\vdash</td> <td></td>				\vdash	
		TONER			LD6701-03	LN38GCPPV	LED	3	
	VEPOOT87A	P.C.BOARD W/COMPONENT MECHA CONNECTION	1	(RTL)∢R>					
	VEP03B70A	P.C.BOARD W/COMPONENT Y/C PACK	1	(RTL)∢R>	P6701	VJS2621	CONNECTOR (FEMALE)	1	
	VEP03B48C	P.C.BOARD W/COMPONENT	1	(RTL)∢R>	+	-		-	
		SUB VIDEO		FOR VEP03870A					
	VEP03B60A	P.C.BOARD W/COMPONENT	1	(RTL)∢R>	R6701-03	ERDS2TJ221	C.RESISTOR 1/4W 220	3	
		MEMORY PACK		FOR VEPO3B70A		-			
	VEP03B98A	P.C.BOARD W/COMPONENT	1	(RTL)∢R>	┨├──┼			<u> </u>	
		VIDEO CONTROL	Ť	(1112) 11	SW6701	EVQ11407K	SWITCH	ī	∢ >
								Ē	
	VEP04508A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>	1				
		FRONT JACK			VSQ0798	VSQ0798	JOG ENCORDER	١,	
	VEP05202H	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>	1,200,30	42/0/36	JUG ENLUKUEK	1	
		HEAD AMP							
-	VEP06A05A	P.C.BOARD W/COMPONENT MAIN	1	(RTL)∢R>	1	VMV16F0	MISCELLANEOUS		
_	VEP00X63A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>		VMX1652	LED SACER	-	
		M. M	1	FOR VEPO6A05A	11			 	
	VEP02439A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>					
	VEDOGRAM	SUB SERVO		FOR VEP06A05A			77-11-		
-	VEP03B68A	P.C.BOARD W/COMPONENT RF AMP	1	(RTL)∢R> FOR VEPO6A05A		100016174	D. C. DOADD. LL/COMPONENT	<u> </u>	
	VEP03B69A	P.C.BOARD W/COMPONENT	1			VEP01617A	P.C.BOARD W/COMPONENT POWER		
	, , , , , , , , , , , , , , , , , , , ,	1/0		FOR VEPO6A05A	1		TOTAL	┢╌	
	VEP04506A	P.C.BOARD W/COMPONENT	1	(RTL)∢R>					
	VEDOAGEGO	AUDIO 2		FOR VEPO6A05A					
	VEP04353B	P.C.BOARD W/COMPONENT FM AUDIO PACK	1	(RTL)∢R> FOR VEPO6A05A	C1001 C1002	ECQU2A683MN VCK0043	P.CAPACITOR 100V 0.068U FILTER	_	
	VEP04507A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>	C1002	VCK0043	FILTER	1	
		AUDIO 1		FOR VEPO6A05A	C1008	VCK0046	C.CAPACITOR	1	
	LUTTOGALOGA				C1009	ECEC2VA121	E.CAPACITOR 350V 120U	1	
	VEP06A06A	P.C.BOARD W/COMPONENT FRONT VR	1	(RTL)∢R>	C1010 C1011	ECEA1VFE101 ECKF1H471KB	E.CAPACITOR 35V 100U	1	
— i	VEPOOV50A	P.C.BOARD W/COMPONENT	1	(RTL) <r></r>	C1011	ECEA1HFE560	C.CAPACITOR 50V 470P E.CAPACITOR 50V 56U	1	
		HP/MIC		FOR VEPO6A06A	C1014	ECA1EXLV220	E.CAPACITOR 25V 22U	1	
					C1017	ECEA1AGE221	E.CAPACITOR 10V 220U	1	
	VEP07800A	P.C.BOARD W/COMPONENT TIMER	1	(RTL)≪>	C1019	ECAOJFQ331 ECEA1AGE221	E.CAPACITOR 6.3V 330U	1	
		Sub			C1020 C1021	ECCD2H101J	E.CAPACITOR 10V 220U C.CAPACITOR 500V 100P	1	
	VEPDOZ/L	1 Y/c board	7		C1023	ECEA1CFE331	E.CAPACITOR 16V 330U	1	
	1	70,000			C1024	ECCD2H101J	C.CAPACITOR 500V 100P	1	
			<u> </u>		C1025	ECEA1HFE560	E.CAPACITOR 50V 56U	1	
					C1029 C1030	ECQB1H333JF VCK0106K222	P.CAPACITOR 50V 0.033U C.CAPACITOR	1	-
					1	TOTOTOOLEEL	J.O.T.ROLLON	-	
					1	ED71/075 131	DIODE		
					01001 01002-05	ERZVO7D471 EM1B	DIODE	4	<1> <r></r>
	-			***************************************	D1002-05	ERA22-02	DIODE	1	<
	1				D1007	MA165VT	DIODE	1	≪>
					D1008	MA723VT	DIODE	1	∢?>
			_	· · · · · · · · · · · · · · · · · · ·	D1009-11	MA165VT	DIODE	3	
		**************************************	\vdash		D1012 D1013	F5KQ40 11EQS04	DIODE	1	
					D1013	FMB-G16R	DIODE	1	
					01015	ERA22-02	DIODE	1	
					D1018	MA4056H	DIODE	1	
					11	-		ļ	
					F1001	XBA1C16NU100	FUSE	1	
					1	7.55.201010100			
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description I	°cs	Remarks
IC1001	STRS6705	IC	1			VEP03B70A	P.C.BOARD W/COMPONENT Y/C PACK		
iciooi	31K30703	10	1			VEP03B48C	P.C.BOARD W/COMPONENT		ON VEPO3870A
						VEP03B60A	SUB VIDEO P.C.BOARD W/COMPONENT		ON VEPO3870A
1001	ELF18D270A	COIL 27UH	1	< >			MEMORY PACK		
1002-04	VLQ0611K220 VLQ0599J101	COIL 22UH COIL 100UH	1					-	
1006,07	VLP0074	COIL	2		11				
,			Ť		C3702	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
					C3703	ECUX1C473ZFV	C.CAPACITOR CH 16V 0.047U	1	
21001	W 10000E	CONNECTOR	ļ.,	-1-	C3704	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
P1001 P1002	VJS2985 VJP3092	CONNECTOR (MALE)	1		C3705 C3706	ECUX1H821JCV ECUX1H103ZFV	C.CAPACITOR CH 50V 820P C.CAPACITOR CH 50V 0.01U	1	
1002	VOI 3032	COMPLETOR (PALE)	<u> </u>		C3708	ERJ3GEYOROO	M.RESISTOR CH 1/16W 0	1	
	1				C3709-11	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
					C3712	ECUX1H150JCV	C.CAPACITOR CH 25V 1U	1	
Q1001	PC817AB	TRANSISTOR	1	<r></r>	C3713	ECUX1H221GCV	C.CAPACITOR CH 50V 220P	1	
Q1002,03 Q1004	2SD636-R 2SB641-R	TRANSISTOR TRANSISTOR	2	<r></r>	C3714 C3715-17	ECUX1H471GCV ECUX1H103ZFV	C.CAPACITOR CH 50V 470P C.CAPACITOR CH 50V 0.01U	3	
01004	2SD637-R	TRANSISTOR	1	<r></r>	C30003	ECOXIHIO3ZFV ECQB1H103JZ	P.CAPACITOR CH 50V 0.01U	1	
			Ė		C30004	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
					C30005	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
D1001	CD010754505	C DECLETOD (St. C			C30006	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
R1001 R1002	VSF0055	S.RESISTOR 1/2W 6.8M FUSE	1	< >	C30007 C30008	ECUX1E223KBV ECUX1C104ZFV	C.CAPACITOR CH 25V 0.023U C.CAPACITOR CH 16V 0.1U	1	
R1002	ERDS2FJ224	C.RESISTOR 1/4W 220K	1	1717	C30008	ECEA1HKA3R3	E.CAPACITOR CH 16V 0.1U	1	
R1004	ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1		C30010	ECEV1CA100	E.CAPACITOR CH 16V 10U	1	
R1005	ERDS2FJ153	C.RESISTOR 1/4W 15K	1		C30011	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
R1006	ERDS2FJ330	C.RESISTOR 1/4W 33	1		C30012	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
R1007	ERDS2FJ1R5	C.RESISTOR 1/4W 1.5	1		C30013	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
R1008 R1009	ERX1SJR68 ERDS2FJ681	M.RESISTOR 1W 0.68 C.RESISTOR 1/4W 680	1		C30014 C30015	ECEA1CKA100 ECEV1EA4R7	E.CAPACITOR 16V 10U E.CAPACITOR CH 25V 4.7U	1	
R1010	ERDS2FJ151	C.RESISTOR 1/4W 150	1		C30019	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
R1011	ERDS2FJ331	C.RESISTOR 1/4W 330	1		C30020	ECEA1CKA100	E.CAPACITOR 16V 10U	1	·····
R1012	ERDS2FJ683	C.RESISTOR 1/4W 68K	1		C30025	ECUM1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
R1013	ERDS2FJ473	C.RESISTOR 1/4W 47K	1	-	C30026	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
R1014 R1017	ERDS2FJ471 ERDS2FJ471	C.RESISTOR 1/4W 470 C.RESISTOR 1/4W 470	1		C30027 C30028	ECEV1HA010 ECUX1H560GCV	E.CAPACITOR 50V 1U C.CAPACITOR CH 50V 56P	1	
R1017	ERDS2FJ221	C.RESISTOR 1/4W 220	1		C30030	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
R1020	ERDS2TJ271	C.RESISTOR 1/4W 270	1		C30031	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
R1021	ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1		C30032	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
R1022	ERDS2TJ182	C.RESISTOR 1/4W 1.8K	1		C30033	ECEV1EA4R7	E.CAPACITOR CH 25V 4.7U	1	
R1023 R1024	ERDS2TJ563 EROS2CKG2702	C.RESISTOR 1/4W 56K M.RESISTOR 1/4W 27K	1		C30034 C30036	ECUX1H331JCV ECUX1H080DCV	C.CAPACITOR CH 50V 330P C.CAPACITOR CH 50V 8P	1	4
R1025,26	EROSZCKGZ702 EROSZCKG8201	M.RESISTOR 1/4W 8.2K	2		C30037	ECEA1HKAR22	E.CAPACITOR CH SOV 0.22U	1	
					C30038	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
				.,	C30039	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
71001	VII TO740	Thaussenus	<u> </u>		C30040	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
T1001	VLT0748	TRANSFORMER	1	< >	C30041,42 C30045	ECUX1H103ZFV ECUX1H330JCV	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 33P	2	
	 		 		C30045	ECUX1H680JCV	C.CAPACITOR CH 50V 33P	1	
					C30047	ECUX1H681KBV	C.CAPACITOR CH 50V 680P	1	
		MISCELLANEOUS			C30048,49	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
	VJF0318	FUSE HOLDER	2		C30050,51	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	
	VMC0811 VMZ0965	SPRING CAPACITOR COVER	3		C30052-54 C30055	ECUX1H103ZFV ECEA0JKA470	C.CAPACITOR CH 50V 0.01U E.CAPACITOR 6.3V 47U	3	
	VMZ1356	CAPACITOR COVER	1		C30058	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
	VMZ1686	CAPACITOR COVER	1		C30059	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
	VSC4096	HEAT SINK	1		C30060	ECEVOJA470	E.CAPACITOR 6.3V 47U	1	
	VMZ1835	SHIELD COVER	1		C30061	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
	VMZ0429	COVER	1		C30062 C30063	ECEV1CA220 ECUX1H103ZFV	E.CAPACITOR CH 16V 22U	1	
	+				C30067	ECUX1H103ZFV ECUX1H150JCV	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 25V 1U	1	
					C30068	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
				al disconnection	C30069	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
					C30070	ECEVOJA470	E.CAPACITOR 6.3V 47U	1	
-	 		<u> </u>		C30071,72	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
	1		_		C33001 C33002	ECUX1C104ZFV ECEVOJA470	C.CAPACITOR CH 16V 0.1U E.CAPACITOR 6.3V 47U	1	
					C33002	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	$\frac{1}{1}$	
			Ľ		C33004	ECEVOJA470	E.CAPACITOR 6.3V 47U	1	
					C33005	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
İ	1	•	l		C33006	ECEVOJA470	E.CAPACITOR 6.3V 47U	1	
	1				1100000				

Rcf.No.	Part No.	Part Name & Description	Pc	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
33007	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		FL33021,22	VLF1016A101	FILTER	2	
33008	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1		FL33023	VLF1016A103	FILTER	1	
33009	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		FL33024	VLF1016A101	FILTER	1	·
33010	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1					<u> </u>	
33011	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1						`
33012	ECEA0JKA101	E.CAPACITOR 6.3V 100U	1		11				
33013,14	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2		IC3701	AN3250FAP	IC	1	<r>></r>
33015	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1		IC30001	M52373AFP	IC	1	<r>></r>
33016	ECEVOJA470	E.CAPACITOR 6.3V 47U	1		IC30002	TC4W66F	IC	1	∢ R>
33017	ECEV1CA100	E.CAPACITOR CH 16V 10U	1		IC33001	ST24C01CM1	IC	1	<-
33018	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		IC33002	SC371024BFU	IC	1	<₹>
33019	ECEVOJA470	E.CAPACITOR 6.3V 47U	1		IC33003	MN6715	IC	1	≪ >
33020	ECEV1CA100	E.CAPACITOR CH 16V 10U	1		IC33004	SC371026FU	IC	1	∢?>
33021	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		IC33005	L7A1368	IC	1	∢ R>
33022	ECEVOJA470	E.CAPACITOR 6.3V 47U	1		IC33006	MN53040VRX2	IC	1	∢ R>
33023-26	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4		IC33010	NN4792FBP	IC	1	∢>
33027	ECEV1HA010	E.CAPACITOR 50V 1U	1		IC33011	TC7S04F	IC	1	4₹>
33028	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		IC33012	TC7W02F	IC	ī	∢?>
3029	ECEVOJA470	E.CAPACITOR 6.3V 47U	1		IC33014	UPD4538BG	IC	1	∢>
3030	ECEV1CA100	E.CAPACITOR CH 16V 10U	1		IC33015	D74HC4053G	IC	1	
3031	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		IC34001	UPD42280G3E2	IC	1	∢>
3032	ECEVOJA470	E.CAPACITOR 6.3V 47U	1		IC34002	UPD42280G3E2	IC	1	
3033	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1			1		Ē	
33034	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		1				
33035	ECEVOJA470	E.CAPACITOR 6.3V 47U	1						
33036	ECEV1CA100	E.CAPACITOR CH 16V 10U	1		K33001	ERJ3GEYOROO	M.RESISTOR CH 1/16W 0	ī	1
33037	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		1	1			
33039-41	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3		1[<u> </u>	
33043,44	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2						
33045	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1		L30001	VLQ0599J680	COIL 68UH	1	
33046-49	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4		L30005	VLQ0163G150	COIL	1	
3054-57	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	4		L30006	VLQ0599J680	COIL 68UH	1	
3058,59	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	2		L30007	VLP0196	COIL	1	
3060	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		L30008	VLQ0163J680	COIL 68UH	1	
3069-71	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	3		L30009	VLQ0599J391	COIL 390UH	1	
3072	ECEV1CA100	E.CAPACITOR CH 16V 10U	1		L30010	VLQ0599J471	COIL 470UH	1	
33073	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	· · · · · · · · · · · · · · · · · · ·	L30011	VLQ0599J680	COIL 68UH	1	
33074	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1		L30014	VLQ0599J680	COIL 68UH	1	
33075,76	ECKF1H562KB	C.CAPACITOR 50V 5600P	2		L30015	ELJFA220KB	COIL	$\frac{1}{1}$	
33077	ECCF1H100DC	C.CAPACITOR 50V 10P	1		L30016	VLQ0163J101	COIL 100UH	1	
34001	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L30017	VLQ0163J151	COIL 150UH	1	
34002	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L30018	VLP0196	COIL	1	
4003	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33001-04	VLP0192	COIL	4	
34004	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33005-09	VLP0196	COIL	5	
4005	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33010	VLP0197	COIL	1	
4006	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33011	VLP0156	COIL	1	
4007	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33012	ERJ3GEYOROO	M.RESISTOR CH 1/16W 0	1	
4008	ECUX1H680JCV	C.CAPACITOR 50V 68P	1		L33013	VLP0197	COIL	1	
4009	ECUX1C104ZFV	C.CAPACITOR 16V 100U	1		L33014	VLP0146	COIL	1	
4010	ECUX1C104ZFV	C.CAPACITOR 16V 100U	1		1			_	
4011	ECUX1C104ZFV	C.CAPACITOR 16V 100U	1						
4012	ECUX1C104ZFV	C.CAPACITOR 16V 100U	1		1				
			Γ	-	PP3701	VJP3126B024	CONNECTOR (MALE) 24P	1	
					PP34001	VJP3126D030	CONNECTOR	1	
					1	1			
701	MA141K	DIODE	1	<r></r>	11		W2		
0003	MA141K	DIODE	1	<r></r>					
0005	MA141WA	DIODE	1	<r></r>	PS30001	VJS3042F016W	CONNECTOR (FEMALE) 16P	1	
0006	MA141K	DIODE	1	<r></r>	PS30002	VJS3042F020W	CONNECTOR	1	
	1	······································	Ť		PS30003	VJS2961A024	CONNECTOR (FEMALE) 24P	1	
					PS30004	VJS30428006W	CONNECTOR (FEMALE) 6P	1	
					PS33001	VJS2961A030	CONNECTOR (FEMALE) 30P	1	
30001	ELB4R057	FILTER	1		1				
30002	ELB3H016	FILTER	1		11				
33001	VLF1016A103	FILTER	1		11	1	**		
33002,03	VLF1016A101	FILTER	2		Q3703,04	2SB1218	TRANSISTOR	2	∢ R>
33004	VLF1016A470	FILTER	1		03705	XN1501	TRANSISTOR	1	< ₹ >
33005-08	VLF1016A103	FILTER	4		Q30001	2SB1218	TRANSISTOR	1	< ₹ >
33009	VLF1016A101	FILTER	1		Q30001 Q30002	2SA1532	TRANSISTOR	1	∢> <r></r>
33010	VLF1016A103	FILTER	1		030002	2SC3930	TRANSISTOR	1	< ₹ >
33011	VLF1016A470	FILTER	1		Q30004 Q30005-08	2SD1819	TRANSISTOR		
33012	VLF1016A103	FILTER	1		Q30005-08 Q30009	2SC3930	TRANSISTOR	4	∢> ∢>
33012	VLF1016A103	FILTER	1		1 			1	
33015-18	VLF1016/470 VLF1016/470	FILTER	_		Q30010,11	2SD1819	TRANSISTOR	2	∢ ?>
33020	VLF1016A470 VLF1016A103		4		Q30012	2SC3930	TRANSISTOR	1	∢ >
	L APL TOTOWIOS	FILTER	1		Q30013	2SA1532	TRANSISTOR	1	∢?>
33020			I .		11 '				

Ref.No.	Part No.	Part Name & Description			Ref.No.	Part No.	Part Name & Description		Remarks
030015,16	2SB1218	TRANSISTOR	2	<r></r>	R30055	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
Q30017 Q33001	2SD1819 2SD1819	TRANSISTOR TRANSISTOR	1	<r> <r></r></r>	R30056	ERJ3GEYJ824 ERJ3GEYK395	M.RESISTOR CH 1/16W 820K M.RESISTOR CH 1/16W 39M	1	
233002	2SA1532	TRANSISTOR	1	<r></r>	R30061	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
Q33003-07	2SB1218	TRANSISTOR	5	<r></r>	R30062	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
					R30063	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
					R30064	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
					R30065	ERJ3GEYJ113	M.RESISTOR CH 1/16W 11K	1	
QR3701	UN5213	TRANSISTOR-RESISTOR	1	<r></r>	R30066	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
QR30002-04 QR30005	UN5213 UN5212	TRANSISTOR-RESISTOR TRANSISTOR-RESISTOR	3	<r> <r></r></r>	R30067	ERJ3GEYJ682 ERJ3GEYJ105	M.RESISTOR CH 1/16W 6.8K	1	
QR30005	UN5212	TRANSISTOR-RESISTOR	2	<r></r>	R30068 R30069	ERJ3GEYK225	M.RESISTOR CH 1/16W 1M M.RESISTOR CH 1/16W 22M	1	
QR33003	UN5213	TRANSISTOR-RESISTOR	1	<r></r>	R30070	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
QR33004,05	UN5113	TRANSISTOR-RESISTOR	2	<r></r>	R30071	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
QR33008	XN1213	TRANSISTOR-RESISTOR	1	<r></r>	R30072	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
QR33009-11	UN5113	TRANSISTOR-RESISTOR	3	<r></r>	R30073	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
					R30074	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
					R30075	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
					R30076	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R3703	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R33001-13	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	13	
R3704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R33014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3706 R3708	ERJ3GEYJ104 ERJ3GEYJ182	M.RESISTOR CH 1/16W 100K M.RESISTOR CH 1/16W 1.8K	1		R33015-18 R33019	ERJ3GEYJ101 ERJ3GEYJ473	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 47K	4	
R3709	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1.8K	1		R33020-23	ERJ3GEYJ473 ERJ3GEYJ101	M.RESISTOR CH 1/16W 47K M.RESISTOR CH 1/16W 100	1 4	
R3710	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1		R33024	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3711	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R33025	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3712	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1		R33026-34	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	9	- Lander
R3713	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R33035	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R3714,15	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	2		R33036	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3716	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1		R33037,38	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R3717	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R33039	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3718	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R33040	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3719 R3720	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R33041	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	-
R3721	ERJ3GEYJ122 ERJ3GEYJ562	M.RESISTOR CH 1/16W 1.2K M.RESISTOR CH 1/16W 5.6K	$\frac{1}{1}$		R33042-46 R33047	ERJ3GEYJ153 ERJ3GEYJ101	M.RESISTOR CH 1/16W 15K M.RESISTOR CH 1/16W 100	5	
R3722	VRE0071E122	M.RESISTOR CH 1/10W 3.0K	1		R33048	ERJ3GEYJ153	M.RESISTOR CH 1/16W 100 M.RESISTOR CH 1/16W 15K	1	
R3723	VRE0071E122	M.RESISTOR CH 1/10W 1.5K	1		R33049	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3724	VRE0071E391	M.RESISTOR CH 1/10W 390	1	***************************************	R33050	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R30001	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R33051-54	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R30002	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1		R33055	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R30003	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1		R33056	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R30004	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	,	R33057,58	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R30005	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R33059	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R30006 R30007	ERJ3GEYJ332 ERJ3GEYJ473	M.RESISTOR CH 1/16W 3.3K M.RESISTOR CH 1/16W 47K	1		R33060	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R30008	ERJ3GEYJ152	M.RESISTOR CH 1/16W 4/K	$\frac{1}{1}$		R33061 R33062	ERJ3GEYJ223 ERJ3GEYJ103	M.RESISTOR CH 1/16W 22K M.RESISTOR CH 1/16W 10K	1	
R30018	VRE0071E561	M.RESISTOR CH 1/10W 560	1		R33063	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R30019	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1		R33064	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R30020-22	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	3		R33065	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R30023	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1		R33066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R30024	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		R33067	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R30025	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1		R33068	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R30026	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R33069	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R30027,28 R30029	ERJ3GEYJ473 ERJ3GEYJ152	M.RESISTOR CH 1/16W 47K M.RESISTOR CH 1/16W 1.5K	2		R33070 R33071	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R30030	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1.5K	$-\frac{1}{1}$		R33071	ERJ3GEYJ103 ERJ3GEYJ222	M.RESISTOR CH 1/16W 10K M.RESISTOR CH 1/16W 2.2K	1	
R30030	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1		R33072	ERJ3GEYJ221	M.RESISTOR CH 1/16W 2.2K	1	
R30032	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R33074,75	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R30033	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		R33076	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R30034	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1		R33077	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R30035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1		R33078	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R30036,37	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2		R33079	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R30038	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1		R33096	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R30039 R30040	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1		R33109	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R30040	ERJ3GEYJ682 ERJ3GEYJ222	M.RESISTOR CH 1/16W 6.8K M.RESISTOR CH 1/16W 2.2K	$-\frac{1}{1}$		R33111	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R30041	ERJ3GEYJ273	M.RESISTOR CH 1/16W 2.2K	$\frac{1}{1}$		R33112 R33113	ERJ3GEYJ182 ERJ3GEYJ102	M.RESISTOR CH 1/16W 1.8K M.RESISTOR CH 1/16W 1K	1	
R30042	ERJ3GEYJ223	M.RESISTOR CH 1/16W 2/K	$-\frac{1}{1}$		R33113	ERJ3GEYJ102 ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R30044	ÉRJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1		R33118	ERJ3GEYJ104	M.RESISTOR CH 1/16W 1.0K	1	<u> </u>
R30048	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1		R33124	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R30049	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1		R33125	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R30050	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1		R33126,27	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R30052	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	I	R33129	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R30053	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1		R33130	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	V
R30054	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1		R33131	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
								-	

Ref.No.	Part No.	Part Name & Description		Remarks	Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
3132	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1		41				Ш	
3133	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1		1		VEP03B98A	P.C.BOARD W/COMPONENT		
134	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1					VIDEO CONTROL	<u> </u>	
136,37	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2							
001	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1							
002	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1							
003	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6003		ECEAOJKA470	E.CAPACITOR 6.3V 47U	i	
004	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6011		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
005	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6012,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
1006	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6014,15	\neg	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
1007	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6016	_	ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
1008	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1		C6017	_	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
009	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		C6017	-	ECOB1H473JF	P.CAPACITOR 50V 0.047U	1	
		,	_							
010	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		C6019	_	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
011	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		C6020	_	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
012	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		C6021		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
1013	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		C6022		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
014	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1							
015	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		11					
016	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1		1					
-10	ENOUGE TO TOZ	INCOLUTION ON 1/10W 1.0K	1	 	IC6002	-	M34225M1537S	IC	-	∢>
-	-					-			1	
	1				IC6005	4	RH5VL44AA	IC	1	∢ >
	1		ļ		IC6006		UPD4538BG	IC	1	< ₹ >
0002	EVM7JGA00B24	V.RESISTOR 20K	1	L	<u> </u>					
0003,04	EVM7JGA00B14	V.RESISTOR 10K	2		JL	_]			L	
0005	EVMEGSA00B14	V.RESISTOR 10K	1			٦				
0006	EVMEGSA00B53	V.RESISTOR 5K	1		L6001		VLQ0599J680	COIL 68UH	1	
			Ť		L6022		VLQ0599J680	COIL 68UH	1	
	T				1	-	, :	555.7	Ť	
	+		+		1	H				
001	VSX0658	CDVCTAL OCCULLATOR	+	<r></r>	-	-				
1000	V2X0658	CRYSTAL OSCILLATOR	1	<k></k>	1		V100076	COMPLETON		
					P6001		VJP3076	CONNECTOR	1	
					P6002		VJP1233T	CONNECTOR (MALE) 6P	1	
				1	P6003		VJP3529	CONNECTOR	1	
		MISCELLANEOUS			1					
	VXA5305	Y/C SHIELD CASE U	1		1					
	XTV3+6F	SCREW	3		11					
	VSC4097	Y/C SHIELD CASE (A)	1	· · · · · · · · · · · · · · · · · · ·	Q6001		XN1501	TRANSISTOR	1	<r></r>
					100001	_	VIATOOT	TRANSISTOR	1	
	VMZ2366	Y/C SHIELD BARRIER	1						ļ	
	VMX2372	SPACER	1		.ii				ļ	
	VLP0107	FERRITE BEADS	1		1	j				
			l	İ	QR6001		MUN2211	TRANSISTOR	1	∢?>
					QR6002		XN1213	TRANSISTOR-RESISTOR	1	∢>
			T		QR6003,04		MUN2113	TRANSISTOR	2	< ₹>
					QR6005		UN2115	TRANSISTOR-RESISTOR	1	4₹>
			\vdash		QR6006		XN1213	TRANSISTOR-RESISTOR	1	4₹>
	+		┼─		120000		VIIIEIZ	HONSISTON-NESISTON	 ^ -	- 40
	-		₩		-					
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		<u></u>	_		11				ļ	
			1		R6007-10		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
					R6011-13		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
					R6014		VRE0034E104	M.RESISTOR CH 1/10W 100K	1	
			T		R6015		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
	+		+		R6016		VRE0034E104	M.RESISTOR CH 1/10W 3.5K	1	-
		 	\vdash		1	H	ERJ6GEYJ103	· · · · · · · · · · · · · · · · · · ·		}
					R6017,18				2	
			-		R6019,20	Ш	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	2	
			1		R6021		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
	1		L		R6022		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	L
					R6023-25	П	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
			L				ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	-	
			-		R6026		EKUDGETUZZO	LIPUEDIDION OIL TATOM STA	1	
					1			· · · · · · · · · · · · · · · · · · ·	-	
					R6026 R6027		ERJ6GEYJ103		1	
					1			· · · · · · · · · · · · · · · · · · ·	-	
					1			· · · · · · · · · · · · · · · · · · ·	-	
					R6027		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
	100				1			· · · · · · · · · · · · · · · · · · ·	1	<₽>
					R6027		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	♠>
					R6027		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	∢>
					R6027		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	₹>
					R6027		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR	1	4>
					R6027		ERJ6GEYJ103 VSX0258	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS	1	4>
					R6027		VSX0258 VSC2911	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER)	1	₹ >
					R6027		VSX0258 VSC2911 VSC3917	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER) SHIELD CASE (MAIN)	1 1 1 1	<₽>
					R6027		VSX0258 VSC2911	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER)	1	4>
					R6027		VSX0258 VSC2911 VSC3917	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER) SHIELD CASE (MAIN)	1 1 1 1	₹>
					R6027		VSX0258 VSC2911 VSC3917	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER) SHIELD CASE (MAIN)	1 1 1 1	₹>
					R6027		VSX0258 VSC2911 VSC3917	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER) SHIELD CASE (MAIN)	1 1 1 1	₹>
					R6027		VSX0258 VSC2911 VSC3917	M.RESISTOR CH 1/10W 10K CRYSTAL OSCILLATOR MISCELLANEOUS SHIELD CASE (UPPER) SHIELD CASE (MAIN)	1 1 1 1	4>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pre	Remarks
		& Description		Kemarks	IC501	AN3343SC	IC Description		L
	VEP04508A	P.C.BOARD W/COMPONENT			IC551	BA7745FS	IC	$\frac{1}{1}$	<r> </r>
		FRONT JACK				13,07,1013	10	1	40
			П						
 			\vdash		1 501	18 00500 1000	not!	ļ	
J6801	VJJ0215	RCA PIN JACK .			L501 L503,04	VLQ0599J680 ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
J6803	VJJ0209	S INPUT TERMINAL	1		L505,06	VLP0145	COIL COIL	2	
					L507,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
					L551-53	VLQ0599J680	COIL 68UH	3	
L6801	VLP0083	COIL	1		L554	VLQ0599J6R8	COIL	1	
10001	VET 0003	COIL	-		\parallel			<u> </u>	
						-		-	
					P501	VJS3537B014G	CONNECTOR	1	
P6801	VJP2760	CONNECTOR (MALE)	1		P502	VJS3192T	CONNECTOR (FEMALE)	1	
					P551	VJS3537B009G	CONNECTOR	1	
			\vdash						
R6801	ERDS2TJ750	C.RESISTOR 1/4W 75	1						
					Q551	MSD601-R	TRANSISTOR	1	∢ >
	-				Q552	MSB709-R	TRANSISTOR	1	-R>
		MICCELL ANEQUE				1			
	VSC2932	MISCELLANEOUS SHIELD COVER	1					<u> </u>	
	1002302	SHILLD GOVER	1		R502	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
					R503	ERJ6GEYJ101	M.RESISTOR CH 1/10W 820	1	
					R504	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
					R505	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
	VEP05202H	P.C.BOARD W/COMPONENT	\vdash		R506	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
	VLI OJEOZII	HEAD AMP			R507 R508	ERJ6GEYJ393 ERJ6GEYJ183	M.RESISTOR CH 1/10W 39K M.RESISTOR CH 1/10W 18K	1	
			\dashv		R509	ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
					R510	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
	F0511 611100				R511	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
C501 C502	ECEA1CKA220 ECEA0JKA470	E.CAPACITOR 16V 22U E.CAPACITOR 6.3V 47U	1		R512	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
C503	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		R513,14 R515,16	ERJ6GEYJ331 ERJ6GEYJ391	M.RESISTOR CH 1/10W 330 M.RESISTOR CH 1/10W 390	2	
C504	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1		R517	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
C505,06	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2		R518	VRE0034E100	M.RESISTOR CH 1/10W 10	1	
C507,08	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	2		R519	ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
C509 C510-16	ECUM1H332KBN ECUM1H103ZFN	C.CAPACITOR CH 50V 3300P C.CAPACITOR CH 50V 0.01U	1		R552	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
C517	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	7		R553 R554	ERJ6GEYJ273 ERJ6GEYJ243	M.RESISTOR CH 1/10W 27K M.RESISTOR CH 1/10W 24K	1	
C518	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1		R557	ERJ6GEYJ182	M.RESISTOR CH 1/10W 24K	1	
C519	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		R558	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
C520	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		R559,60	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
C522 C523,24	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1		R561	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
5525,24	ECUM1H103KBN ECUM1H12OJCN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 12P	2		R562 R563	ERJ6GEYJ681 VRE0034E220	M.RESISTOR CH 1/10W 680	1	
5527,28	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2		R564	ERJ6GEYJ224	M.RESISTOR CH 1/10W 22 M.RESISTOR CH 1/10W 220K	1	
0531,32	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	2		R566	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
C533	ECUM1H12OJCN	C.CAPACITOR CH 50V 12P	1		R567	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
C534-36 C551	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3		R568	ERJ6GEYJ270	M.RESISTOR CH 1/10W 27	1	
553,54	ECUM1H104ZFN ECUM1H103ZFN	C.CAPACITOR CH 50V 0.1U C.CAPACITOR CH 50V 0.01U	2		R569 R570	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
2555	ECEAOJPK221	E.CAPACITOR 6.3V 220U	1		R571,72	ERJ6GEYJ471 ERJ6GEYJ822	M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 8.2K	2	
556,57	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2		R573	ERJ6GEYJ270	M.RESISTOR CH 1/10W 8.2K	1	
5558	ECEAOJPK470	E.CAPACITOR 6.3V 47U	1		R574	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	***************************************
5559 560 61	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		R575	VRE0034E202	M.RESISTOR CH 1/10W 2K	1	
560,61 562,63	ECUM1H471JCN ECUM1H101JCN	C.CAPACITOR CH 50V 470P C.CAPACITOR CH 50V 100P	2		R576	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
564	ECUMIHIDIJUN ECUMIHIDAZEN	C.CAPACITOR CH 50V 100P C.CAPACITOR CH 50V 0.1U	2		 	-		_	
565	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	-	 			\dashv	
566	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1				MISCELLANEOUS		
567	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1			VSC3714	SHIELD COVER (UPPER)	1	
2568 2569	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1			VSC3478	SHIELD CASE (MAIN)	1	
5570	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1		<u> </u>	VSC3715	SHIELD COVER	1	
572	ECUM1H121JCN ECUM1C105ZFN	C.CAPACITOR CH 50V 120P C.CAPACITOR CH 16V 1U	1		 	-			
	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1				-	-	
573		C.CAPACITOR CH 50V 0.010	2						
2573 2574,75	ECUM1H680JCN	CONTROL ON COL 1			. 1	1			
	ECUM1H680JCN	C:CA ACTION CII 304 OOF							
	ECUM1H680JCN	C.CA NOTION ON SOF							
	ECUM1H680JCN	CLOWNELTON OF SOM							

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.		Part No.	Part Name & Description	_	Remarks
	VEP06A05A	P.C.BOARD W/COMPONENT			C1010,11 C1012		ECUM1E104ZFN ECEA0JKA101	C.CAPACITOR CH 25V 0.1U E.CAPACITOR 6.3V 100U	2	
	TEI OOMOGN	MAIN			C1013		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
	VEP00X63A	P.C.BOARD W/COMPONENT		ON VEPO6A05A	C1014		ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
	VED024204	M. M P.C.BOARD W/COMPONENT		ON VEPO6A05A	C1015,16 C2001		ECEAOJKA470 ECQV1H683JM	P.CAPACITOR 6.3V 47U P.CAPACITOR 50V 0.068U	2	
	VEP02439A	SUB SERVO	-	ON VEPODAUSA	C2001 C2002,03		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
	VEP03B68A	P.C.BOARD W/COMPONENT		ON VEPO6A05A	C2009		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
		RF AMP			C2010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
	VEP03B69A	P.C.BOARD W/COMPONENT I/O		ON VEPO6A05A	C2011 C2012	_	ECUM1H392KBN ECEA1HKA3R3	C.CAPACITOR CH 50V 3900P E.CAPACITOR 50V 3.3U	1	
	VEP04506A	P.C.BOARD W/COMPONENT		ON VEPO6A05A	C2012	-	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
		AUDIO 2			C2014		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
	VEP04353B	P.C.BOARD W/COMPONENT		ON VEPO6A05A	C2015 C2016	_	ECUM1H471JCN ECUM1H103ZFN	C.CAPACITOR CH 50V 470P C.CAPACITOR CH 50V 0.01U	1	·
	VEP04507A	FM AUDIO PACK P.C.BOARD W/COMPONENT		ON VEPO6A05A	C2017		ECEAOJKA220	E.CAPACITOR 6.3V 220U	1	
	72.0.00	AUDIO 1			C2018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
					C2019		ECEAOJKA220	E.CAPACITOR 6.3V 220U	1	
					C2020 C2021,22		ECEA1EKN3R3	C.CAPACITOR CH 50V 2200P E.CAPACITOR 25V 3.3U	2	
	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1		C2021,22		ECEATERNSRS ECEATHKA4R7	E.CAPACITOR 50V 4.7U	1	
22	ECHU1H104JB	C.CAPACITOR 50V 0.1U	1		C2025		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C401,02	ECEV1CAN4R7	E.CAPACITOR CH 16V 4.7U	2		C2026	L	ECKF1H392KB	C.CAPACITOR 50V 3900P	1	
C405 C406	ECHU1C682JA ECUM1H102JN	P.CAPACITOR 16V 6800P C.CAPACITOR CH 50V 1000P	1		C2027 C2029	H	ECEA1HKA3R3 ECQV1H104JZ	P.CAPACITOR 50V 3.3U P.CAPACITOR 50V 0.1U	1	
C406	ECHU1C223JA	P.CAPACITOR CH SOV 1000P	1		C2023	\vdash	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C408	ECEV1EA100	E.CAPACITOR CH 25V 10U	1		C2031		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C409	ECHU1C223JA	P.CAPACITOR 16V 0.022U	1		C2032	H	ECEATHKAR47	C.CAPACITOR CH 50V 0.47U	1	
C410 C411	ECEV1EA4R7 ECEV1CA470P	E.CAPACITOR CH 25V 4.7U E.CAPACITOR CH 16V 47U	1		C2034 C2035	H	ECEA1CKA470	C.CAPACITOR CH 50V 100P E.CAPACITOR 16V 47U	1	
C411	ECHU1C103JA	P.CAPACITOR 16V 0.01U	1		C2036	-	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C413	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1		C2037		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C414-16	ECUMIH102KBN	C.CAPACITOR CH 50V 1000P	3		C2039,40		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C417 C418	ECEV1EA4R7 ECWV1E104JS	E.CAPACITOR CH 25V 4.7U P.CAPACITOR 25V 0.1U	1		C2502 C2503,04	L	ECQV1H683JM ECUM1H333KBN	P.CAPACITOR 50V 0.068U C.CAPACITOR CH 50V 0.033U	2	
C418	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C2505,04	H	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C420	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1		C2506		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C421-23	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3		C2507	ļ	ECEA1HKAR22	E.CAPACITOR 50V 0.22U E.CAPACITOR 50V 1U	1	
C424 C425	ECWV1E154JS ECWV1E104JS	P.CAPACITOR 25V 0.15U P.CAPACITOR 25V 0.1U	1		C2508 C2509	-	ECEA1HKA010 ECEA1CKA470	E.CAPACITOR 50V 1U E.CAPACITOR 16V 47U	1	
C426	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1		C2510-13	-	ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C427	ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1		C2514-16		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C428	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 0.01U	1		C2517 C2518,19	-	ECEA1CKA101 ECUM1H103KBN	E.CAPACITOR 16V 100U C.CAPACITOR CH 50V 0.01U	2	
C431 C432	ECUM1H103ZFN ECUM1H101JCN	C.CAPACITOR CH 50V 0.010	1		C2510,19	┞	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C433	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C2521,22		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	2	
C434	ECWV1E104JS	P.CAPACITOR 25V 0.1U	1		C2523		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C435 C436-38	ECEV1EA4R7 ECUM1H102KBN	E.CAPACITOR CH 25V 4.7U C.CAPACITOR CH 50V 1000P	3		C2525 C3002	H	ECUMITE TO 4KBN	C.CAPACITOR CH 25V 0.1U C.CAPACITOR CH 50V 1000P	1	
C439	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1		C3003	H	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	i	
C440	ECHU1C103JA	P.CAPACITOR 16V 0.01U	1		C3005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C441	ECEV1CA470P	E.CAPACITOR CH 16V 47U	1		C3006	L	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C442 C443	ECEV1EA4R7 ECHU1C223JA	P.CAPACITOR CH 25V 4.7U P.CAPACITOR 16V 0.022U	$\frac{1}{1}$		C3009 C3010	\vdash	ECUM1H103ZFN ECUM1E104KBN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 25V 0.1U	1	
C444	ECEV1EA100	E.CAPACITOR CH 25V 10U	1		C3011		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C445	ECUM1H102JN	C.CAPACITOR CH 50V 1000P	1		C3012	Ĺ	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C446 C447	ECHU1C223JA	P.CAPACITOR 16V 0.022U P.CAPACITOR 16V 6800P	1		C3013 C3014	H	ECUM1H103ZFN ECUM1E104KBN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 25V 0.1U	1	
C447	ECHU1C682JA ECEV1HA010	P.CAPACITOR 16V 6800P E.CAPACITOR 50V 1U	$\frac{1}{1}$		C3014 C3015	H	ECUM1H103ZFN	C.CAPACITOR CH 25V 0.1U	1	
C450-52	ECEV1HA3R3	E.CAPACITOR CH 50V 3.3U	3		C3016		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C453,54	ECEV1CA100	E.CAPACITOR CH 16V 10U	2	·	C3017,18	L	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C455 C456	ECEV1CA470P ECEV1HA010	E.CAPACITOR CH 16V 47U E.CAPACITOR 50V 1U	1		C3019 C3020	-	ECUM1H103ZFN ECUM1E104KBN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 25V 0.1U	1	
C456	ECEVICA220	E.CAPACITOR CH 16V 22U	1		C3028	+	ECEAOJU221	E.CAPACITOR 6.3V 220U	1	
C458	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C3029	L	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C459,60	ECEVOJA470	E.CAPACITOR 6.3V 47U	2		C3030	Ĺ	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C461,62 C463	ECEV1HA010 ECWV1E124JS	E.CAPACITOR 50V 1U P.CAPACITOR 25V 0.12U	1		C3031 C3032	+	ECEA0JU331 ECEA1CKA100	E.CAPACITOR 6.3V 330U E.CAPACITOR 16V 10U	1	
C1002	ECEA1CKA470	E.CAPACITOR 25V 0.12U	1		C3032	+	ECEATORATOO ECEAOJU102	E.CAPACITOR 18V 1000U	1	
C1002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C3034,35	t	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1004	ECEA1AKA470	E.CAPACITOR 10V 47U	1		C3036	L	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
C1005,06	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	·	C3037,38	H	ECEA1EKA4R7 ECUM1H103ZFN	E.CAPACITOR 25V 4.7U C.CAPACITOR CH 50V 0.01U	2	
C1007 C1008	ECEAOJKA221 ECEA1AKA470	E.CAPACITOR 6.3V 220U E.CAPACITOR 10V 47U	1		C3039,40 C3061	H	ECUM1H103ZFN ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C1009	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1		C3062	t	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
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Ref.No.	Part No.	Part Name & Description		Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
03063	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1		C4006	ECQB1H393JF	P.CAPACITOR 50V 0.039U	1	
3064 3065,66	ECEAOJKA470 ECUM1H103ZFN	E.CAPACITOR 6.3V 47U C.CAPACITOR CH 50V 0.01U	1		C4007	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
3101	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2		C4008 C4009	ECUM1H822KBN	C.CAPACITOR CH 50V 8200P	1	
3102	ECUM1H12OJCN	C.CAPACITOR CH 50V 12P	1		C4010	ECQB1H103JF ECUM1H103KBN	P.CAPACITOR 50V 0.01U C.CAPACITOR CH 50V 0.01U	1	
3103	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	î		C4011	ECEA1CKA470	E.CAPACITOR CH 50V 0.010	1	
3104	ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1		C4012	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
3105	ECUM1H27OJCN	C.CAPACITOR CH 50V 27P	1		C4013	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
3106	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C4014	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
3107	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1		C4015	ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
3108	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1		C4016	ECQB1H122JF	P.CAPACITOR 50V 1200P	1	
3109	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C4017	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
3110 3111	ECUM1H150JCN ECUM1H470JCN	C.CAPACITOR CH 50V 15P	1		C4018	ECSF1CE106	T.CAPACITOR 16V 10U	1	
3112	ECUMIH180JCN	C.CAPACITOR CH 50V 47P C.CAPACITOR CH 50V 18P	1		C4019 C4020	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
3113	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1		C4020	ECEAOJKA101 ECQB1H103JF	P.CAPACITOR 6.3V 100U P.CAPACITOR 50V 0.01U	1	
3114	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1		C4021	ECEAICKA100	P.CAPACITOR 50V 0.01U E.CAPACITOR 16V 10U	1	ļ
3115-17	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3		C4023	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
3118-20	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	3		C4024-29	ECEA1CKA100	E.CAPACITOR 16V 10U	. 6	
3121	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C4030	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
3122	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1		C4031	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
3123	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1		C4032	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
3124-27	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4		C4033	ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
3128	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1		C4034	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
3129	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C4501	ECEA1CU221	E.CAPACITOR 16V 220U	1	
3130,31	ECUM1H12OJCN	C. CAPACITOR CH 50V 12P	2		C4502	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
3133,34	ECUM1H103ZFN ECUM1H180JCN	C.CAPACITOR CH 50V 0.01U C.CAPACITOR CH 50V 18P	2		C4503	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
3136	ECUMIH680JCN	C.CAPACITOR CH 50V 18P C.CAPACITOR CH 50V 68P	1		C4504,05	ECEA1HKA010	E.CAPACITOR 50V 1U	2	
3137	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1		C4506,07	ECEA1CKA101	E.CAPACITOR 16V 100U	2	
3138	ECUM1H181JCN	C.CAPACITOR CH 50V 270P	1		C4508 C4509,10	ECEA1CKA100	E.CAPACITOR 16V 10U	1	ļ
3139	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1		C4509,10 C4511	ECEA1CKA101 ECEA0JKA101	E.CAPACITOR 16V 100U E.CAPACITOR 6.3V 100U	2	
3141	ECUM1H12OJCN	C.CAPACITOR CH 50V 12P	1		C4511-14	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
3142	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	T	C4515.16	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
3505	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1		C4517	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
3506	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		C4801	ECEA1CU471	E.CAPACITOR 16V 470U	1	
3508	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1		C4802,03	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
3509	ECQB1H332JF	P.CAPACITOR 50V 3300P	1		C4804	ECCD2H181J	C.CAPACITOR 500V 180P	1	
3510	ECEA1HKA010	E.CAPACITOR 50V 1U	1		C4805	ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
3511	ECEA1CKA101	E.CAPACITOR 16V 100U	1		C4806	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
3512 3513	ECQP1H562GZ	P. CAPACITOR 50V 5600P	1		C4807	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	<u> </u>
3514	ECQB1H272JF ECUM1H103ZFN	P.CAPACITOR 50V 0.22U	1		C4808	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
3515	ECEA1HKA010	C.CAPACITOR CH 50V 0.01U E.CAPACITOR 50V 1U	1	· · · · · · · · · · · · · · · · · · ·	C4809	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
3516	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	1	C4810,11 C4812	ECEA1HKA010	E.CAPACITOR 50V 1U	2	
3601	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	~~~	C4813	ECEA1CKA101 ECEA1HKA010	E.CAPACITOR 16V 100U E.CAPACITOR 50V 1U	1	
3602-05	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4		C4814	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
3606	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1		C6002	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
3607-09	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.018	3		C6003	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
3610	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1		C6005,06	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
3611	ECUMIH333KBN	C.CAPACITOR CH 50V 0.033U	1		C6007	ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
3612	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1		C6008	ECEAOJKA220	E.CAPACITOR 6.3V 220U	1	
613-15	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	3		C6009	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
616	ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1		C6010	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
617 618	ECUM1H270JCN ECEAOJKN470	C.CAPACITOR CH 50V 27P	-1		C6011	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
901	ECEAUJKN4/0 ECUM1H103ZFN	E.CAPACITOR 6.3V 47U C.CAPACITOR CH 50V 0.01U	1		C6012	ECAOJM471	E.CAPACITOR 6.3V 470U	1	
901	ECEAOJKA220	C.CAPACITOR CH 50V 0.01U E.CAPACITOR 6.3V 220U	1		C6013	ECEA1CKA101	E.CAPACITOR 16V 100U	_1	
903,04	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2		C6014,15	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	•
905,06	ECEAOJKA220	E.CAPACITOR 6.3V 220U	2		C6016 C6017,18	ECUM1H471JCN ECUM1H180JCN	C.CAPACITOR CH 50V 470P C.CAPACITOR CH 50V 18P	1	
907,08	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2		C6017,18	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
909	ECEA0JKA220	E.CAPACITOR 6.3V 220U	1		C6021	ECUM1H221JCN	C.CAPACITOR CH 50V 270P	1	
910,11	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	* * * * * * * * * * * * * * * * * * *	C6022,23	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
912	ECEAOJKA220	E.CAPACITOR 6.3V 220U	1		C6024	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
913	ECEA1CKA470	E.CAPACITOR 16V 47U	1		C6025	ECAOJKF560	E.CAPACITOR 6.3V 56U	1	
914-17	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4		C6026	ECEA1CKA101	E.CAPACITOR 16V 100U	ī	
918	ECEAOJKN220	E.CAPACITOR 6.3V 22U	1		C6028	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
919	ECUMIHIO3ZFN	C.CAPACITOR CH 50V 0.01U	1		C6029		C.CAPACITOR CH 50V 0.01U	1	
920	ECEAOJKN220	E.CAPACITOR 6.3V 22U	1		C6030	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
921	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	*	C6031	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
001	FCEA1CU221	E.CAPACITOR 16V 220U	1		C6033	ECEA1CGE470	E.CAPACITOR 16V 47U	1	
002	ECEA1CKA330	E.CAPACITOR 16V 33U	1		C6035	ECEA1AKA470	E.CAPACITOR 10V 47U	1	
003	ECEA1CKA470 ECEA1HKA010	E.CAPACITOR 16V 47U	1		C6039	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
005	ECQB1H183JF	E.CAPACITOR 50V 1U P.CAPACITOR 50V 0.018U	1		C6041	ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
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Ref.No.	Part No.	Part Name & Description		Remarks	Ref.No.	Part No.	Part Name & Description		
044	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		D7907	MA4300M	DIODE	1	∢>
046	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1		07908-10	11EQS04	DIODE	3	< R>
048,49	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2		D7911-13	MA165VT	DIODE	3	4R>
050	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1		07914	MA151WA	DIODE	1	∢?>
051	ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1		D7915	MA151WK	DIODE	1	-R>
052	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		10,313	INITALIA	BIODE	<u>.</u>	
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053	ECEA1AGE101	E.CAPACITOR 10V 100U	1		ł I				
054-58	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5		ł I				
5129	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1		FL3001	ELB4R057	FILTER	1	
5132	ECEA0JKA470	E.CAPACITOR 6.3V 47U	1		FL3101	VLF1141	FILTER	1	
5136	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		FL3601	ELB4R057	FILTER	1	
905	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		FL4501	VLF0696	FILTER	1	
5907	ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1		1	121 0030	722127	-	
			<u> </u>		11	_			
5908	ECEA1CKA470	E.CAPACITOR 16V 47U	1		-	1	ļ		
5910	ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1		II				_
5911	ECEAOJKA220	E.CAPACITOR 6.3V 220U	1		IC1	UPD4538BG	IC	1	∢?>
5912	ECEA1CKA100	E.CAPACITOR 16V 10U	1		IC401	BA7705K1	IC	1	∢ ?>
5913	ECWM1H472JZ	P.CAPACITOR 50V 4700P	1		IC1001	HA17431PA	IC	1	∢ >
5914	ECWM1H333JZ	P.CAPACITOR 50V 0.033U	1		IC2003	MC14053BF	IC	1	4₹>
7901	ECEA1CKA220		_		IC2501	BA6871BS	IC	1	₹>
			1						
903	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1		IC3001	AN3581S	IC	1	4₹>
904	ECEA1CKA470	E.CAPACITOR 16V 47U	1		IC3002	TC7S66F	IC	1	∢ R>
908	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		IC3101	M52083FP	IC	1	< R >
909	ECEA1CKA101	E.CAPACITOR 16V 100U	1		IC3502	AN5421N	IC	1	< R >
910	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		IC3601	AN3250FAP	IC	1	.: ⊲R>
						MC14577CF	IC	1	117
911	ECEA1CKA101	E.CAPACITOR 16V 100U	1		IC3602				
912	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		IC3901,02	MC14052BF	IC	2	< R >
913	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1		IC4001	LA7296	IC	1	4₹>
7914	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		IC4002-05	NJM4558M	IC	4	4₹>
7915	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	***************************************	IC4006	MC14052BF	IC	1	∢>
7916	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		IC4007	MC14051BF	IC	1	-R>
			_		1		IC	1	
917	ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1		IC4008	NJM4558M			
7918,19	ECEAOJKA220	E.CAPACITOR 6.3V 220U	2		IC4501	AN1358S	IC	1	< R>
920	ECEAOJKA101	E.CAPACITOR 6.3V 100U	1		IC4502	NJM4558M	IC	1	∢ R>
7921	EECF5R5U104	E.CAPACITOR 5.5V 0.1F	1		IC4503	UPC78L05J	IC	1	∢>
7922	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1		IC6001	MN6755320H7L	IC	1	∢>
7923	ECEA1HKN4R7	E.CAPACITOR 50V 4.7U	1		IC6903	BA6887	IC	1	4₹>
7924	ECEA1CKA100	E.CAPACITOR 16V 10U	1		IC7901	MC14053BF	IC	1	4 ₹>
7925,26	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2		IC7902,03	NJM4558M	IC	2	4₹>
					IC7904	MC74HC86F	IC	1	∢R>
					IC7905	M66006FP	IC	1	∢?>
					1			_	
	1447044	DYODE	٠,			+			
1	MA704A	DIODE	1		-				
401	MA720	DIODE	1	<r></r>	11				
1002	MA4033-H	DIODE	1		K3002	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	_1	
1003	MA723VT	DIODE	1	<r></r>	K3005,06	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
1004	MA165VT	DIODE	1	<r></r>	11	1			
1005	MA4036	DIODE	1	11		1			
				-0-	11				
1006	MA723VT	DIODE	1	<r></r>	11				
2003	MA165VT	DIODE	1	<r></r>	L401	VLQ0163J101	COIL 100UH	1	
2005	MA151WK	DIODE	1	<r></r>	L403	VLQ0163J101	COIL 100UH	1	
2007	MA165VT	DIODE	1	<r></r>	L1001	VLP0083	COIL	1	
2501	11ES1	DIODE	1	<r></r>	L2001	VLP0083	COIL	1	1
2502,03	MA185	DIODE	2	<r></r>	L2002	VLQEL05F101K	COIL 100UH	1	
								_	
3001,02	MA165VT	DIODE	2	<r></r>	L2501	ELESE102KA	COIL 1000UH	1	
3101	MA151K	DIODE	1	<r></r>	L3001,02	VLQ0599J680	COIL 68UH	2	
3601	MA151K	DIODE	1	<r></r>	L3005	VLQ0599J330	COIL 33UH	1	
3901,02	MA151WK	DIODE	2	<r></r>	13006,07	VLQ0599J680	COIL 68UH	2	
1001,02	MA165VT	DIODE	2	<r></r>	L3101	VLQ0599J151	COIL 150UH	1	
4004,05	MA165VT	DIODE	2	<r></r>	L3102	VLQ0599J3R9	COIL 3.9UH	$-\frac{1}{1}$	
									+
1009-13	MA165VT	DIODE	5	<r></r>	L3103	VLQ0599J4R7		1	-
1501-04	MA165VT	DIODE	4	<r></r>	L3104	VLQ0599J151	COIL 150UH	1	
1801	MA151WA	DIODE	1	<r></r>	L3105	VLQ0599J5R6	COIL 5.6UH	_ 1	
5001	MA165VT	DIODE	1	<r></r>	L3106	VLQ0599J180	COIL 18UH	1	
5002	MA4120-M	DIODE	1		L3107	VLQ0599J220	COIL 22UH	1	
003-07	MA165VT	DIODE	5	<r></r>	L3108	VLQ0599J181	COIL 180UH	1	
								_	1
5008	MA723VT	DIODE	1	<r></r>	L3109	VLQ0599J100	COIL 10UH	1	
5009-11	MA165VT	DIODE	3	<r></r>	L3110	VLQ0599J390	COIL 39UH	1	
6013	MA4051M	DIODE	1	<r></r>	L3111	VLQ0599J680	COIL 68UH	1	
6014,15	MA165VT	DIODE	2	. <r></r>	L3112	VLQ0599J390	COIL 39UH	î	
			-	- 105					
5016	MA4056-L	DIODE	1		L3113	VLQ0599J221	COIL 220UH	1	
5017	11ES1	DIODE	1	<r></r>	L3114	VLQ0599J680	COIL 68UH	1	
7901-04	MA165VT	DIODE	4	<r></r>	L3115	VLQ0599J390	COIL 39UH	1	
7905	11EQS04	DIODE	i	<r></r>	L3116	VLQ0599J330	COIL 33UH	1	
	· · · · · · · · · · · · · · · · · · ·	DIODE	1	<r></r>	L3117	VLQ0599J820	COIL 82UH	1	
		LINUER		1.582	18.311/	I ALTODAANGED	LOTE RANK	ıí	1
906	MA4130M	DIODE	+-						

Ref.No.	Part No.	Part Name & Description	1	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3118 L3119	VLQ0599J221 VLQ0599J271	COIL 220UH 270UH	1		-				
L3120	VLQ05993271 VLQ0599J270	COIL 2700H	1		0401,02	25D1 200 D	TRANSTICTOR	L	
L3122	VLQ0599J151	COIL 150UH	1		Q1001	2SD1328-R 2SD1330-S	TRANSISTOR TRANSISTOR	1	< ₹>
L3123	VLQ0599J150	COIL 15UH	1		01002	2SD973-R	TRANSISTOR	1	<r></r>
L3125	VLQ0599J100	COIL 10UH	1		01003	2SD1330	TRANSISTOR	1	⟨₹⟩
L3501,02	VLQ0599J680	COIL 68UH	2	. 114*	01004,05	2SD1330-S	TRANSISTOR	2	4₹>
L3601	VLQ0599J680	COIL 68UH	1		Q3001	MSB709-R	TRANSISTOR	1	***************************************
L3901-03	VLQ0599J680	COIL 68UH	3		Q3002	MSC2295-B	TRANSISTOR	1	∢>
L3904,05 L4001	VLP0152	COIL	2		Q3003	MSD601-R	TRANSISTOR	1	<r></r>
L4001 L4002	VLQEL07F101K VLQEL07R153	COIL 100UH	1 1		Q3004 03005 05	MSB709-R	TRANSISTOR	1	∢?>
L4003	VLQ0123	COIL	1		Q3005,06 Q3101	MSD601-R MSC2295-B	TRANSISTOR	2	< ₹>
L4004	VLQEL05S561J	COIL 560UH	1	****	Q3101 Q3102	MSD601-R	TRANSISTOR TRANSISTOR	1	< ₹>
L4501	VLQEL07F101K	COIL 100UH	1		Q3103,04	MSC2295-B	TRANSISTOR	2	₹ >
L4801	VLQ0599J471	COIL 470UH	1		Q3502	MSC2295-B	TRANSISTOR	1	
L6002	VLP0074	COIL	1		Q3503	2SA1022-B	TRANSISTOR	1	
L6003	VLQEL05K221K	COIL 220UH	1		Q3504	MSB709-R	TRANSISTOR	1	∢ R>
L6004,05	VLQ0599J680	COIL 68UH	2		Q3601	MSB709-R	TRANSISTOR	1	∢ R>
L6006	VLP0083	COIL	1		Q3602	MSD601-R	TRANSISTOR	1	∢ R>
L6910	ELESE101KA	COIL 100UH	1		Q3603	MSB709-R	TRANSISTOR	1	∢ >
_7901 _7904	VLQ0599J010 VLQ0599J680	COIL 10H	1		Q3901-03	MSB709-R	TRANSISTOR	3	< ₹ >
7904	VLQ0599J680 VLQ0599J010	COIL 68UH	1		Q4001	MSD1328-R	TRANSISTOR	1	∢>
7907	VLQ0599J680	COIL 1UH	1		Q4501,02	MSD1328-R	TRANSISTOR	2	≪>
501	.cq00330000	UOUH UOUH	1		Q4503 Q4504	2SB710A-R MSB709-R	TRANSISTOR	1	∢ >
			\vdash		Q4505	MSD601-R	TRANSISTOR TRANSISTOR	1	∢; ∢;>
			$\vdash \uparrow$		Q4801	MSD1328-R	TRANSISTOR	1	<₹> <₹>
2001	VJP3529	CONNECTOR	1		Q4802,03	MSD601-R	TRANSISTOR	2	<r>></r>
2002	VJP2981A003	CONNECTOR	1		Q4804	2SD639-R	TRANSISTOR	1	4₹>
2501	VJS3537A015G	CONNECTOR	1		Q4805	MSD601-R	TRANSISTOR	1	≪>
2502	VJP3502	CONNECTOR	1		Q4806	MSB709-R	TRANSISTOR	1	≪>
3001	VJS3537A014G	CONNECTOR	1		Q4807	2SB790-R	TRANSISTOR	1	∢ >
3002	VJP3529	CONNECTOR	1		Q6001	2SB643-R	TRANSISTOR	_1	≪ >
93101 93501	VJS3043F015W VJS3043B012W	CONNECTOR (FEMALE) 100	1		Q6002	2SD1330-R	TRANSISTOR	1	∢ >
3901	VJP3092	CONNECTOR (FEMALE) 12P CONNECTOR (MALE)	1		Q6003	MSD601-R	TRANSISTOR	1	4₹>
4001-03	VJS3186B018	CONNECTOR (FEMALE) 18P	3		Q6004	2SD1992	TRANSISTOR	1	∢>
4501-03	VJS3186B018	CONNECTOR (FEMALE) 18P	3		Q6005 Q6006	MSB709-R	TRANSISTOR	1	4₹>
4801-06	VJP3186A018W	CONNECTOR	6		Q6007,08	2SD637 2SD1330-R	TRANSISTOR TRANSISTOR	1	∢ >
4807	VJP3529	CONNECTOR	1		Q6010	2SD1330-R	TRANSISTOR	2	∢ > ∢ >
4808	VJP3043A012W	CONNECTOR (MALE) 12P	i		Q6011	2SD1330-K	TRANSISTOR	1	₹ >
4809	VJP3529	CONNECTOR	1		Q6901	2SA1309	TRANSISTOR	1	< ₹ >
4810	VJS2331	CONNECTOR (FEMALE)	1	.54.	Q6902	2SC3311	TRANSISTOR	1	₹>
4811	VJP1230T	CONNECTOR (MALE) 3P	1		Q7901	2SD1328-R	TRANSISTOR	1	4₹>
4812	VJS3537A009G	CONNECTOR	1		Q7902,03	2SD1330-S	TRANSISTOR	2	∢>
4813	VJP3079	CONNECTOR (MALE)	1		Q7904	2SD1328-R	TRANSISTOR	1	∢>
6001		CONNECTOR	1		Q7905	MSB709-R	TRANSISTOR	1	∢>
6002	VJP1242T VJP3080	CONNECTOR (MALE) 2P	1		Q7906	2SD601-R	TRANSISTOR	1	∢>
6901	VJP3080 VJP1230T	CONNECTOR (MALE) CONNECTOR (MALE) 3P	1		Q7907	2SD1330-S	TRANSISTOR	1	∢R>
7901	VJP3093	CONNECTOR (MALE)	1	77.00	Q7908	MSB709-R	TRANSISTOR	1	⋖₹>
7902	VJS3537F016G	CONNECTOR (MALE)	1		 				
7903	VJS3537F018G	CONNECTOR	1		-	-		_	
			_		QR401	UN2113	TRANSISTOR-RESISTOR	1	<₹>
					QR403	UN2213	TRANSISTOR-RESISTOR	1	₹>
					QR404	UN2113	TRANSISTOR-RESISTOR	1	
P2503,04	VJP3042A010W	CONNECTOR (MALE) 10P	2		QR1001	UN2215	TRANSISTOR-RESISTOR	1	
P3001	VJP3042A016W	CONNECTOR (MALE) 16P	1		QR2001	XN1213	TRANSISTOR-RESISTOR	1	∢ R>
P3002		CONNECTOR	1		QR2002	MUN2213	TRANSISTOR	1	∢>
P3003 P3004		CONNECTOR (MALE) 6P	1		QR2008	MUN2213	TRANSISTOR	1	∢>
P3004 .		CONNECTOR (MALE) 7P	1		QR3001	MUN2113	TRANSISTOR	1	∢>
P3005 P3006		CONNECTOR (MALE) 13P CONNECTOR	1		QR3006	MUN2113	TRANSISTOR	1	∢>
P3007		CONNECTOR (MALE) 12P	1		QR3007	MUN2111	TRANSISTOR	1	4>
P3008		CONNECTOR (MALE) 12P	1	· · · · · · · · · · · · · · · · · · ·	QR3010 QR3011,12	MUN2213 MUN2113	TRANSISTOR	1	4₹>
		OF			QR3011,12	MUN2113 MUN2213	TRANSISTOR TRANSISTOR	2	∢ >
					QR3013,14 QR3101	XN1213	TRANSISTOR-RESISTOR	\rightarrow	∢> ∢ >
	-				QR3102	MUN2213	TRANSISTOR TRANSISTOR	1	4<> 4<>
\$2503,04	VJS3042B010W	CONNECTOR (FEMALE) 10P	2		QR3102-05	XN1213	TRANSISTOR-RESISTOR		∢> √ (>
S3901		CONNECTOR (FEMALE) 12P	1		QR3501	MUN2213	TRANSISTOR - RESISTOR	1	≪> ≪ >
3902	VJS3043B013W	CONNECTOR (FEMALE) 13P	1		QR3901	XN1213	TRANSISTOR-RESISTOR	1	≪>
\$3903	VJS3043B006W	CONNECTOR (FEMALE) 6P	1		QR3902,03	XN5501	TRANSISTOR		\(\)
53904		CONNECTOR (FEMALE) 7P	1		QR3904-06	MUN2213	TRANSISTOR	3	
					QR3907	XN1213	TRANSISTOR-RESISTOR		-
1 1									· · · · · · · · · · · · · · · · · · ·

Ref.No.	Part No.	Part Name & Description			Ref.No.		Part No.	Part Name & Description		Remarks
)R4001	UN2215	TRANSISTOR-RESISTOR	1	<r></r>	R442,43		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	2	
R4002	MUN2213	TRANSISTOR	1	<r></r>	R1001	1	VRE0034E272	M.RESISTOR CH 1/10W 2.7K	1	
R4003,04	MUN2211	TRANSISTOR	2	<r></r>	R1002,03	4	VRE0034E512	M.RESISTOR CH 1/10W 5.1K	2	
R4005	MUN2113	TRANSISTOR	1	<r></r>	R1004		ERDS1TJ151	C.RESISTOR 1/2W 150	1	
R4006 R4007	MUN2213 MUN2113	TRANSISTOR TRANSISTOR	$\frac{1}{1}$	<r></r>	R1005 R1006,07		ERDS2TJ472 ERDS2TJ680	C.RESISTOR 1/4W 4.7K C.RESISTOR 1/4W 68	2	
R4007 R4008,09	MUN2213	TRANSISTOR	2	<r></r>	R2001		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4010	UN2115	TRANSISTOR-RESISTOR	1	<r></r>	R2002	+	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4011	MUN2211	TRANSISTOR	1	<r>></r>	R2003	+	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4012,13	MUN2213	TRANSISTOR	2	<r></r>	R2005	-	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	•
R4501	MUN2213	TRANSISTOR	1	<r></r>	R2007	1	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R4502	MUN2113	TRANSISTOR	1	<r></r>	R2011	1	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4503	UN2216	TRANSISTOR-RESISTOR	1	<r></r>	R2012		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4801	MUN2211	TRANSISTOR	1	<r></r>	R2013,14		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4802	MUN2212	TRANSISTOR	1	<r></r>	R2015		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4803	MUN2211	TRANSISTOR	1	<r></r>	R2017	1	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4804-06	MUN2213	TRANSISTOR	3	<r></r>	R2018,19	4	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	, .
R6006	MUN2213	TRANSISTOR	1	<r></r>	R2021	-	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K		
R6007,08	MUN2212	TRANSISTOR	2	<r></r>	R2023 R2024	+	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K M.RESISTOR CH 1/10W 10K	1	
R6009	MUN2113 MUN2212	TRANSISTOR	1	<r> <r></r></r>		+	ERJ6GEYJ103 ERJ6GEYJ123	· · · · · · · · · · · · · · · · · · ·	1	
R6011 R6022	UN2116	TRANSISTOR TRANSISTOR-RESISTOR	1	<r></r>	R2025 R2026	+	ERJ6GEYJ244	M.RESISTOR CH 1/10W 12K M.RESISTOR CH 1/10W 240K	1	
R6025	MUN2213	TRANSISTOR	$\frac{1}{1}$	<r></r>	R2501	+	ERJ6GEYJ684	M.RESISTOR CH 1/10W 240K	1	
R6026	MUN2212	TRANSISTOR	1		R2502	+	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6901	MUN2213	TRANSISTOR	+i	<r></r>	R2503	+	ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	
R6902	XN1211	TRANSISTOR-RESISTOR	1	<r></r>	R2504	+	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R7901,02	MUN2113	TRANSISTOR	2	<r></r>	R2505	1	ERJ6GEYG473	M.RESISTOR CH 1/10W 47K	1	,
R7903-07	MUN2211	TRANSISTOR	5	<r></r>	R2506	1	ERJ6GEYG432	M.RESISTOR CH 1/10W 4.3K	1	
R7908	MUN2213	TRANSISTOR	1	<r></r>	R2507		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7909	XN1214	TRANSISTOR	1	<r></r>	R2508		ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R7910	MUN2213	TRANSISTOR	1	<r></r>	R2509-11	_	ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R7913,14	MUN2212	TRANSISTOR	2	<r></r>	R2512	_	ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R7915	MUN2113	TRANSISTOR	1	<r></r>	R2513	4	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7917-19	MUN2211	TRANSISTOR	3	<r></r>	R2514	4	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R7920	MUN2213	TRANSISTOR	1	<r> <r></r></r>	R2516	4	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M M.RESISTOR CH 1/10W 1K	$\frac{1}{1}$	
)R7921)R7922-25	MUN2113 MUN2213	TRANSISTOR TRANSISTOR	4		R2517 R2518	+	ERJ6GEYJ102 ERJ6GEYG821	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 820	$-\frac{1}{1}$	
ĮK/ 922-23	110112213	TRANSISTOR	+	\n>	R2516	+	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
					R2520	+	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
	-	1	+		R2521	+	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	<u> </u>
₹1	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1		R2524	7	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
1403,04	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	2		R3001		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
1406	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1		R3002	7	ERJ6GEYG112	M.RESISTOR CH 1/10W 1.1K	1	
R407	ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1		R3004	7	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R408	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R3005		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R409	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1		R3006,07		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R410	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1		R3008		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R411	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1		R3009	_	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R412	ERJ6GEYJ303	M.RESISTOR CH 1/16W 30K	1		R3010	_	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
1413	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1		R3011	4	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R414	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1		R3012	4	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R415 R416	ERJ6GEYG163 ERJ6GEYJ393	M.RESISTOR CH 1/10W 16K M.RESISTOR CH 1/10W 39K	1		R3013 R3016.17		ERJ6GEYG153 ERJ6GEYJ272	M.RESISTOR CH 1/10W 15K M.RESISTOR CH 1/10W 2.7K	2	
R416	ERJ6GEYJ113	M.RESISTOR CH 1/10W 39K M.RESISTOR CH 1/10W 11K	1	-	R3018,17	-	ERJ6GEYJ182	M.RESISTOR CH 1/10W 2.7K	1	
R417	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1		R3019	\dashv	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1.8K	1	
R420	ERJ6GEYJ103	M.RESISTOR CH 1/10W 22K	1		R3020	+	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
1421	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1		R3021	+	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
422	ERJ6GEYJ303	M.RESISTOR CH 1/16W 30K	1		R3022	1	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
1423	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1		R3023	1	ERJ6GEYG911	M.RESISTOR CH 1/10W 910	1	
1424	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1		R3024	1	ERJ6GEYG561	M.RESISTOR CH 1/10W 560	1	
425	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1		R3025	7	ERJ6GEYG112	M.RESISTOR CH 1/10W 1.1K	1	
R426	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R3026	J	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
427	ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1		R3027		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
428	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1		R3029		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
429	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1		R3030,31		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
431	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1		R3032	_	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	-
433	ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1		R3033,34	_	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
434	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	 	R3035	4	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
1435	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R3036	4	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R436	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	-	R3037	4	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
2437	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1		R3043	4	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R438	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R3044	4	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R439	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1		R3045 R3046	-	ERJ6GEYJ473 ERJ6GEYJ182	M.RESISTOR CH 1/10W 47K M.RESISTOR CH 1/10W 1.8K	1	
R441	ERJ6GEYJ225 ERJ6GEYJ223	M.RESISTOR CH 1/10W 2.2M M.RESISTOR CH 1/10W 22K	1		R3046	\dashv	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K M.RESISTOR CH 1/10W 10K	1	
(441	ENGUGE 10223	minestation on 1/10W ZZK	+1		- NJU1/	\dashv	FV00GE10103	PINESISION ON 1/10W 10N	-	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pc	s Remarks
R3048 R3049	ERJ6GEYJ152 ERJ6GEYJ101	M.RESISTOR CH 1/10W 1.5K M.RESISTOR CH 1/10W 100	1		R3910,11	ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3050	ERJ6GEYJ102	M.RESISTOR CH 1/10W 100	1		R3912 R3913-15	ERJ6GEYJ102 ERJ6GEYJ750	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 75	1	
R3051	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		R3916	ERJ6GEYJ102	M.RESISTOR CH 1/10W 75 M.RESISTOR CH 1/10W 1K	1	
R3052-54	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3		R3918	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3101 R3102	ERJ6GEYJ102 ERJ6GEY0R00	M.RESISTOR CH 1/10W 1K	1		R3919	ERJ6GEYG472	M.RESISTOR CH 1/10W 4.7K	1	
R3103	ERJ6GEYG621	M.RESISTOR CH 1/10W 0 M.RESISTOR CH 1/10W 620	1		R3921 R3922	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3104	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1		R3922	ERJ6GEYG472 ERJ6GEYJ102	M.RESISTOR CH 1/10W 4.7K M.RESISTOR CH 1/10W 1K	1	
R3105	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R3924	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3106	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1		R3925	ERJ6GEYG472	M.RESISTOR CH 1/10W 4.7K	1	
R3107 R3108	ERJ6GEYJ821 ERJ6GEYJ223	M.RESISTOR CH 1/10W 820 M.RESISTOR CH 1/10W 22K	1		R3926,27	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3109	ERJ6GEYJ102	M.RESISTOR CH 1/10W 22K	1		R3928 R3929	ERJ6GEYJ562 ERJ6GEYJ822	M.RESISTOR CH 1/10W 5.6K M.RESISTOR CH 1/10W 8.2K	1	
R3110	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1		R3930	ERJ6GEYJ473	M.RESISTOR CH 1/10W 8.2K	1	
R3111	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R3931,32	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R3112 R3113	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1		R3933	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3114	ERJ6GEYJ102 ERJ6GEYJ222	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 2.2K	1		R3934	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3115	ERJ6GEYJ681	M.RESISTOR CH 1/10W 2:2K	1		R3935 R3936	ERJ6GEYJ562 ERJ6GEYJ103	M.RESISTOR CH 1/10W 5.6K M.RESISTOR CH 1/10W 10K	1	
R3116	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1		R3937,38	ERJ6GEYJ750	M.RESISTOR CH 1/10W 10R	2	
R3117,18	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2		R3939-47	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	9	
R3119 R3120	ERJ6GEYJ272 VRE0034E472	M.RESISTOR CH 1/10W 2.7K	1		R3948-50	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	3	
R3120 R3122	ERJ6GEY0R00	M.RESISTOR CH 1/10W 4.7K M.RESISTOR CH 1/10W 0	1		R3953	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3123	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R3954 R3955,56	ERJ6GEYJ562 ERJ6GEYJ104	M.RESISTOR CH 1/10W 5.6K M.RESISTOR CH 1/10W 100K	1	
R3124	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	· · · · · · · · · · · · · · · · · · ·	R4001	VRE0034E123	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 12K	2	
R3125	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1		R4002	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3127 R3128	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		R4003	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3129	ERJ6GEYJ152 ERJ6GEYJ102	M.RESISTOR CH 1/10W 1.5K M.RESISTOR CH 1/10W 1K	1		R4004	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3130	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		R4005 R4006	ERJ6GEYJ101 ERJ6GEYJ223	M.RESISTOR CH 1/10W 100 M.RESISTOR CH 1/10W 22K	$\frac{1}{1}$	
R3131	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	***************************************	R4007	ERJ6GEYJ103	M.RESISTOR CH 1/10W 22K	1	
R3132	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1		R4008	ERJ6GEYG202	M.RESISTOR CH 1/10W 2K	$\frac{1}{1}$	
R3133 R3134,35	ERJ6GEYJ822 ERJ6GEYJ471	M.RESISTOR CH 1/10W 8.2K M.RESISTOR CH 1/10W 470	1		R4009	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R3136	ERJ6GEYJ102	M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 1K	2		R4010,11 R4012	ERJ6GEYJ562 ERJ6GEYJ104	M.RESISTOR CH 1/10W 5.6K	2	
R3137	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1		R4013	ERJ6GEYJ332	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 3.3K	1	
R3138	ERJ6GEYG621	M.RESISTOR CH 1/10W 620	1		R4014	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3139 R3140,41	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1		R4015	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3140,41	ERJ6GEYJ103 ERJ6GEYJ222	M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 2.2K	2		R4016	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3145	ERJ6GEYG472	M.RESISTOR CH 1/10W 2.2K	1		R4017 R4018	ERJ6GEYJ122 ERJ6GEYJ104	M.RESISTOR CH 1/10W 1.2K M.RESISTOR CH 1/10W 100K		<u> </u>
R3147,48	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2		R4019,20	ERJ6GEYJ121	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 120	2	
R3505	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1		R4021	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3506	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1		R4022	ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	1	"
R3507 R3508,09	ERJ6GEYJ681 ERJ6GEYJ102	M.RESISTOR CH 1/10W 680 M.RESISTOR CH 1/10W 1K	2	**	R4023	ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R3510	ERJ6GEYJ104	M.RESISTOR CH 1/10W 1R	1		R4024 R4025	ERJ6GEYJ152 ERJ6GEYG333	M.RESISTOR CH 1/10W 1.5K	1	
R3511	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R4025	ERJ6GEYG153	M.RESISTOR CH 1/10W 33K M.RESISTOR CH 1/10W 15K	$\frac{1}{1}$	
R3512-14	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	3		R4027	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	****
R3515 R3516	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1		R4028,29	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	2	
R3516	ERJ6GEYJ822 ERJ6GEYJ393	M.RESISTOR CH 1/10W 8.2K M.RESISTOR CH 1/10W 39K	1		R4030	ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R3518	ERJ6GEYJ222	M.RESISTOR CH 1/10W 39K	1		R4031 R4032	ERJ6GEYG333 ERJ6GEYJ104	M.RESISTOR CH 1/10W 33K M.RESISTOR CH 1/10W 100K	1	
R3519	ERJ6GEYJ562		1		R4033	ERJ6GEYJ243	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 24K	1	
R3520	ERJ6GEYJ222		1		R4034	ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R3521 R3601,02	ERJ6GEYJ682		1		R4035	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3603,04	ERJ6GEYJ391 ERJ6GEYJ102		2		R4036	ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R3605	ERJ6GEYJ471		1		R4037 R4038	ERJ6GEYG333 ERJ6GEYJ104	M.RESISTOR CH 1/10W 33K M.RESISTOR CH 1/10W 100K	1	
R3606	ERJ6GEYJ104		1		R4039	ERJ6GEYJ243	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 24K	1	
R3607	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	7.5	R4040	ERJ6GEYG333	M.RESISTOR CH 1/10W 24K	1	
R3608,09	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2		R4041	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3610	ERJ6GEYJ561 ERJ6GEYJ102		1		R4042	ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R3612	ERJ6GEYJ101		1		R4043 R4044	ERJ6GEYG333 ERJ6GEYJ104	M.RESISTOR CH 1/10W 33K	1	
R3613	ERJ6GEYJ103		1		R4044 R4045,46	ERJ6GEYJ104 ERJ6GEYJ102	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 1K	2	
R3614	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1		R4047,48	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	·
R3615 R3616,17	ERJ6GEYJ222 ERJ6GEYJ681		1		R4049	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
3901,02	ERJ6GEYJ681 ERJ6GEYJ750		2		R4050	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
3903-06	ERJ6GEYJ681		4		R4051,52 R4053,54	ERJ6GEYJ104 ERJ6GEYJ102	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 1K	2	
3907	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1		R4055,56	ERJ6GEYJ473	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 47K	2	
3909	ERJ6GEYJ103		1		R4057-59	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
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Ref.No.		Part No.	Part Name & Description		Remarks	Ref.No.	Part No.	Part Name & Description	_	Remarks
4060	Н	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1		R6063,64	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
1061	-	ERDS2TJ103	C.RESISTOR 1/4W 10K	2		R6066 R6067	ERJ6GEYJ102 ERJ6GEYJ822	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 8.2K	1	
501,02 503.04	Н	ERJ6GEYJ562 ERJ6GEYJ104	M.RESISTOR CH 1/10W 5.6K M.RESISTOR CH 1/10W 100K	2		R6068,69	ERJ6GEYJ102	M.RESISTOR CH 1/10W 8.2K	2	
505,04	-	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1		R6072	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
506	-	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1		R6076	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
507	H	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R6077,78	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
508	П	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1		R6079	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
509		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1		R6080,81	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	2	
510		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R6082	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	1.002-01
511		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1		R6083	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
512	Ц	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1		R6084	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
513	Ц	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R6086	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
514,15	Н	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	2		R6087	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
516		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1		R6088	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K M.RESISTOR CH 1/10W 100K	1	
517,18	Н	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2		R6089 R6091-93	ERJ6GEYJ104 ERJ6GEYJ102	M.RESISTOR CH 1/10W 100K M.RESISTOR CH 1/10W 1K	3	
519 520	H	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1		R6091-93	ERJ6GEY0R00	M.RESISTOR CH 1/10W 1R	1	
520	Н	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820 M.RESISTOR CH 1/10W 1.8K	1		R6096	ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
522	Н	ERJ6GEYJ182 ERJ6GEYJ223	M.RESISTOR CH 1/10W 1.8K	1		R6103	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
523	Н	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		R6104	ERJ6GEYG472	M.RESISTOR CH 1/10W 4.7K	ī	
1524	H	ERJ6GEYG103	M.RESISTOR CH 1/10W 0	1		R6105	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
1525	H	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1		R6108	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
1526	H	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	-	R6109	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
527,28	H	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	2		R6110	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
529	Н	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R6113	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
1530	П	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1		R6115	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
531	П	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R6116	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
801		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R6117	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	_1	
1802		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1		R6131	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
803		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1		R6137	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
1804,05		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2		R6901	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
806	Ц	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1		R6902	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	_1	
1807	П	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1		R6914	ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
1808	П	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1		R6915	ERJ6GEYJ913	M.RESISTOR CH 1/10W 91K	1	
1809	Н	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		R6916	ERJ6GEYG512	M.RESISTOR CH 1/10W 5.1K	1	
1810,11	Н	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	2		R6917,18	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
1812,13	H	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2		R6919	ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
4814	Н	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R6920 R6921	ERJ6GEYJ102 VRE0034E122	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 1.2K	1	
1815	Н	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R6921	VRE0034E122 VRE0034E96A	M.RESISTOR CH 1/10W 1.2K	1	
4816,17 6001	Н	ERJ6GEYJ152 ERDS1TJ472	M.RESISTOR CH 1/10W 1.5K C.RESISTOR 1/2W 4.7K	2		R6923	VRE0034E90A VRE0034E751	M.RESISTOR CH 1/10W 0.90	1	
5006-08	Н	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3		R7901-07	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	7	
5011	Н	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1		R7901-07	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
5012	Н	ERJ6GEYOROO	M.RESISTOR CH 1/10W 0	1		R7909	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
5016,17	Н	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2		R7910,11	ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	2	
5018	Н	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1		R7910,11	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
5019	H	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		R7913,14	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
5020,21	Н	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2		R7915	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
5020,21	\vdash	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		R7916	ERDS1TJ152	C.RESISTOR 1/2W 1.5K	1	
5023	\vdash	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R7917	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
5024	Н	ERJ6GEYG472	M.RESISTOR CH 1/10W 4.7K	1		R7918	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
5025	П	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		R7919	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
5026	П	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1		R7920-31	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	12	
5027	П	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1		R7932-34	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	3	
028	П	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1		R7935,36	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
5031	Г	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R7937,38	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	2	
5032	Γ	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1		R7939-43	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	5	
6033-35		ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	3		R7944,45	ERJ6GEYG472	M.RESISTOR CH 1/10W 4.7K	2	
5036-40	Ĺ	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	5		R7946	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
5041	Ĺ	ERJ6GEYG201	M.RESISTOR CH 1/10W 200	1						
5042	L	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1					<u> </u>	
5043,44	1	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2			Lung-112	- OUTTON	<u> </u>	
5045	1	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		SW7901	VSS0112	SWITCH	1	4₹>
5046	1	ERDS2TJ102	C.RESISTOR 1/4W 1K	1						
5047	1	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1			+		<u> </u>	
048,49	\perp	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	2		1	FIOTOFCE	TDANCEODUEC	-	
050	_	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		T4801	EIQ7QF013Q	TRANSFORMER	1	
5051,52	1	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	ļ	T6901	EIQ7QF012Q	TRANSFORMER	1	
6053,54	\perp	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2					<u> </u>	
5055,56	\perp	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2		{			-	
5058,59	+	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2		UDAC1	EVINT TO A CORD C	V DESISTOR 2017	-	
6060	+	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1		VR401	EVM7 JGA30B24	V.RESISTOR 20K V.RESISTOR 10K	1	
6061	+	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		VR402	EVM7JGA00B14 EVM7JGA30B54	V.RESISTOR 10K V.RESISTOR 50K	1	
6062	+	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		VR403	E VIII JUANUBNA	* INCOLOUR DUK	1	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R405 R406	EVM7JGA00B14 EVM7JGA30B54	V.RESISTOR 10K	1						
R407	EVM7JGA30854 EVM7JGA30824	V.RESISTOR 50K V.RESISTOR 20K	1		_{	VEP06A06A	P.C.BOARD W/COMPONENT		
R2001	EVMF6SA00B54	V.RESISTOR 20K V.RESISTOR 50K	1		- }	VEDOGUEDA	FRONT VR	_	
2018,19	EVMF6SA00B54	V.RESISTOR 50K	2			VEP00V50A	P.C.BOARD W/COMPONENT	<u> </u>	ON VEPO6A06A
3001	EVMF6SA00B14	V.RESISTOR 10K	1				HP/MIC	 	
3002	EVMF6SA00B24	V.RESISTOR 20K	1					Ļ _	
₹3003	EVMF6SA00B23	V.RESISTOR 2K	1		⊣			<u> </u>	
3006,07	EVMF6SA00B23	V.RESISTOR 2K	2		C6751,52	ECKF1H152KB	C.CAPACITOR 50V 1500P	-	
3101	EVMEASA00B54	V.RESISTOR 50K	1	·····	C6870	ECQM1H124JM	C.CAPACITOR 50V 1500P P.CAPACITOR 50V 0.24U	2	
₹3503	EVMEASA00B23	V.RESISTOR 2K	1		C6871	ECKF1H103ZF		1	
3601	EVMEGSA00B23	V.RESISTOR 2K	1		C6872	ECQM1H124JM		1	
4801	EVMF6SA00B14	V.RESISTOR 10K	1		C6874	ECEA1CKS330		1	
R4802	EVMF6SA00B25	V.RESISTOR 200K	1	-	C6875	ECEATORS330 ECEATERS3R3		1	
R4803,04	EVMF6SA00B13	V.RESISTOR 1K	2		C6876	VCEA1HAC3R3	E.CAPACITOR 25V 3.3U E.CAPACITOR 50V 3.3U	1	
		TANDESOTOR AND			C6877	ECEA1AKS330		1	
					10077	ECEATAKSSSU	E.CAPACITOR 10V 33U	1	
								\vdash	
001	VSX0583	CRYSTAL OSCILLATOR	1	<r></r>					
901	VSQ0824	CRYSTAL OSCILLATOR	1	<r></r>	D6851,52	MA165VT	DIODE	2	∢>
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		MISCELLANEOUS			IC6870	VCR0172	IC	1	<r>></r>
	VJH0820	ANTENNA TERMINAL	1						
	VMP4684	TUNER EARTH ANGLE	1			1.1			
	XTV3+10G	SCREW	4						
	XSB3+6FZ	SCREW	1		J6751	VJJ0238	HEAD PHONE JACK	1	
	VMA6768	EARTH ANGLE	2		J6752	VJJ0210	HEAD PHONE JACK	1	7
	ENG46106G	TUNER	1						
	VJF1158	CLAMPER	5						
	VMG0400	RUBBER	2						
	VEJ1537	JACK PANEL	1		LD6851	LN81RCPHLULS	DIODE	1	
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					P6851	VJP1246T	CONNECTOR (MALE) 6P	1	17-1
					P6852	VJP3093	CONNECTOR (MALE)	1	
			_		P6853	VJS2357A015	CONNECTOR (FEMALE) 15P	1	
			_		P6870	VJP3091	CONNECTOR (MALE)	1	
			-						
			\dashv		-				
					R6851,52	ERDS2TJ332	C.RESISTOR 1/4W 3.3K	2	
					R6853	ERDS2TJ271	C.RESISTOR 1/4W 270	1	
					R6870	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	<u>-</u>
					R6873,74	ERDS2T0	C.RESISTOR 1/4W 0	2	
					R6876	ERDS2T0	C.RESISTOR 1/4W 0	1	
					R6878	ERDS2T0	C.RESISTOR 1/4W 0	1	
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					SW6851	EVQ11407K	SWITCH	1	≪>
					SW6852,53	ESD172212	SWITCH		√\/ >
			\top		SW6855	VSP0881	SWITCH		<u>4√</u> 4₹>
					SW6856	ESD172312	SWITCH		<u>√R</u> >
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			+		VR6870	EWAKFKXB3B24	V DECICTOD 2015	_	
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					VR6872	EWANABAB3C23 EWANYJX0554J	V.RESISTOR 2K V.RESISTOR	1	
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			\perp		<u> </u>	KL-04	LED HOLDER	1	
			\perp			VGU4495	REC VR KNOB	2	
			_ _			VJF0691	JACK HOLDER	1	····
			_			VYC0160	REC VR PANEL	ī	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description CONNECTOR (MALE) 6P	Pcs 1	Remarks
	VEP07800A	P.C.BOARD W/COMPONENT			P6505	VJP2621	CONNECTOR (MALE)	1	
		TIMER							
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					l cros	0000720 D	TRANSTICTOR	,	ans .
5501	ECEA1HKA100	E.CAPACITOR 50V 10U	1		Q6501	2SD973B-R	TRANSISTOR	1	∢>
5502	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		1				
6503	ECEAOJKS330	E.CAPACITOR 6.3V 33U	1		{ 				
5504	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		QR6501,02	MUN2112	TRANSISTOR	2	< R>
5505	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		QR6503	MUN2111	TRANSISTOR	1	
6506,07	ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2		QR6504	MUN2213	TRANSISTOR	1	∢ R>
5508,09	ECQB1H473JF	P.CAPACITOR 50V 0.047U	2		QR6505-08	MUN2113	TRANSISTOR	4	
5510	ECEAOJK221	E.CAPACITOR 6.3V 220U	1		QR6509-11	MUN2111	TRANSISTOR	3	∢>
6511 6512	ECUM1H104ZFN ECUM1H090DCN	C.CAPACITOR CH 50V 0.1U C.CAPACITOR CH 50V 90P	1		 		-		
6513	ECRHA030E41	TRIMMER 3P	1						
6514	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1		R6501	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
6515	ECUM1H22OJCN	C.CAPACITOR CH 50V 22P	1		R6505-08	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
6516,17	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2		R6510,11	ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	2	•
6518	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1		R6520	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
6520	ECEAOJK\$470	E.CAPACITOR 6.3V 47U	1		R6521	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
6521	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1		R6522	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
6522 6524	ECEAUKS470	E.CAPACITOR 6.3V 47U E.CAPACITOR 16V 100U	1		R6523 R6524-26	ERJ6GEYJ102 ERJ6GEYJ473	M.RESISTOR CH 1/10W 1K M.RESISTOR CH 1/10W 47K	3	
6524 6525	ECEA1CKA101 ECUM1H103ZFN	E.CAPACITOR 16V 100U C.CAPACITOR CH 50V 0.01U	1		R6527	ERJ6GEYJ4/3	M.RESISTOR CH 1/10W 4/K	1	
6526	ECAOJM221	E.CAPACITOR 6.3V 220U	1		R6528	ERJ6GEYJ332	M.RESISTOR CH 1/10W 2.7K	1	
6527	ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1		R6529	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
6528	ECEA1VKA100	E.CAPACITOR 35V 10U	1		R6530	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
6529	ECEA1CKA220	E.CAPACITOR 16V 22U	1		R6531,32	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
6530-47	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	18		R6533	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
6548	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1		R6534	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
6549	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1		R6535-38 R6539,40	ERJ6GEYJ103 ERJ6GEYJ332	M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 3.3K	4	
			-		R6541	ERJ6GEYJ332 ERJ6GEYJ101	M.RESISTOR CH 1/10W 3.3K M.RESISTOR CH 1/10W 100	2	
					R6542	ERJ6GEYJ683	M.RESISTOR CH 1/10W 100	1	
6501	MA4068M	DIODE	1	<r></r>	R6544	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
6502	MA151A	DIODE	1	<r></r>	R6545	ERDS1TJ3R9	C.RESISTOR 1/2W 3.9	1	
6504	ERA22-02V5	DIODE	1		R6546	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
6505,06	MA185	DIODE	2	<r></r>	R6547	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
6507	MA4091L	DIODE	1	<r></r>	R6548-52	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	5	
6509-28	MA151A	DIODE	20	<r></r>	R6553	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
6529	MA151WA	DIODE	1	< ₹>	R6554,55	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	2	
6531	MA151WA	DIODE	1	<r></r>	R6556,57 R6558-64	ERJ6GEYJ471 ERJ6GEYJ332	M.RESISTOR CH 1/10W 470 M.RESISTOR CH 1/10W 3.3K	7	
					R6565-68	ERJ6GEYJ181	M.RESISTOR CH 1/10W 3:3R	4	
					R6569	ERJ6GEYJ390	M.RESISTOR CH 1/10W 39	1	
P6501	VSL0347	DISPLAY	1		R6570-73	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	4	
					R6575-77	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	3	
					R6578-82	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	5	
		7.	<u> </u>		R6586	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
C6502	BA6810S	IC	1	<r></r>	R6589	FRJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
C6503	MN187324VMFH	IC IC	1	<u></u>	R6592	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	3	
C6504 C6505	M6M80011AP VEK6408	IC	1	<r></r>	R6593-95 R6596,97	ERJ6GEYJ103 ERJ6GEYG472	M.RESISTOR CH 1/10W 10K M.RESISTOR CH 1/10W 4.7K	2	
C6506	MN1382K	IC	1	<r></r>	R6598	ERJ6GEYJ682	M.RESISTOR CH 1/10W 4.7K	1	
C6507	MN1382-S	IC	1	<r></r>	R6600,01	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
	1		Ť		R6602	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
					R6610,11	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
					R6620-36	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	17	
6501	ELESQ221KA	COIL 220UH	1						
6502,03	VLQ0599J101	COIL 100UH	2		1			<u> </u>	
6504	VLP0083	COIL	1		TCFO	ETELOVO: ***	TDANCCODATE	-	ļ
					T6501	ETE13K91AY	TRANSFORMER	1	
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D6501-05	LN28RCPL	DIODE	5			+		\vdash	+
D6506	LN48YCPL	DIODE	1		VR6501	EVNDXAA00B53	V.RESISTOR	1	
D6507	VLL0062	LED	1			21.2741.00000		Ė	
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					X6501	VSX0797	CRYSTAL OSCILLATOR	1	+
6501	VJS2357A020	CONNECTOR (FEMALE) 20P	1		X6502	VSX0094	CRYSTAL OSCILLATOR	1	∢ R>
6502	VJS3537F016G	CONNECTOR	1					_	1
6503	VJS3537F018G	CONNECTOR	1		∤			_	
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	 	MISCELLANEOUS						_	
	VJF0693	FIP HOLDER	1		1			⊢	
	VJF0740	LED SPACER	1					 	
	VMD1342	SPACER	1						
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	VEP00T87A	P.C.BOARD W/COMPONENT						\vdash	ļ
	ļ	MECHA CONNECTION							
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1501	LN59L.VT	DIODE	1	<r></r>				<u> </u>	
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C1501,02	ON1387	PHOTO INTERRUPTER	2	<r></r>		7.1		\vdash	
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1503	VJS3316A002	CONNECTOR (FEMALE) 2P	-						
1504	VJS3820	CONNECTOR (FEMALE) 2P	1		-11				
1505	VJS3537B014G	CONNECTOR	1		11				
			_	***					
-	DT400=								
1501	PT493F1MN	TRANSISTOR	1	<r></r>					
1502	PN205L-NC.VT	TRANSISTOR	1	<r></r>	_				
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W1501	VES0695	SAFETY SWITCH	1	<r></r>	┦├	· · · · · · · · · · · · · · · · · · ·			<u> </u>
W1502	VST0176	SWITCH		<r></r>					
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	VJB00T87	MISCELLANEOUS	_						
	VMD2029	MECHA CONNECTION C.B.A. GUIDE PIECE	1						ļ
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