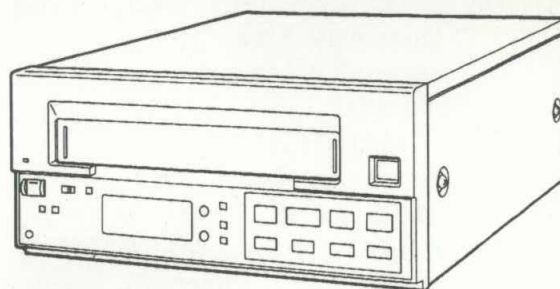


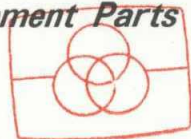
Service Manual

Video Cassette Recorder

Panasonic **VHS** **Hi-Fi**
PAL
AG-5260 - E
 - B

K-MECHANISM


- Sec. 1** *Operating Instructions*
- Sec. 2** *Disassembly Procedures*
- Sec. 3** *Maintenance*
- Sec. 4** *Electrical Adjustment*
- Sec. 5** *Block Diagrams*
- Sec. 6** *Schematic Diagram & Circuit Board Diagrams*
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Please use this manual together with the service manual for K-MECHANISM,
 Order No. VSD9402M632.

SPECIFICATIONS

ITEM	SPECIFICATIONS	ITEM	SPECIFICATIONS
Power	Source: 220 V ~ 240 V AC 50 ~ 60 Hz Consumption: Approx. 19. Watts	Television System	CCIR Standard (625 lines, 50 fields) PAL Colour Signal
Video	Head: 2 rotary heads, helical scanning azimuth recording Luminance: FM recording Colour signal: Converted subcarrier phase shift recording Input Level: VIDEO IN (BNC) 1.0 V _{p-p} , 75 Ω Output Level: VIDEO OUT (BNC) 1.0 V _{p-p} , 75 Ω Signal-to-noise Ratio: 45 dB (colour SP mode) Horizontal Resolution: 240 lines (colour)	Tape Speed	SP: 23.39 mm/s LP: 11.695 mm/s Playback Time: 180 min. with NV-E180 used in SP mode FF/REW Time: Approx. 3 min. with NV-E180
		Tape Format	Tape width 1/2" (12.7 mm) high density VHS tape
		Operating Condition	Temperature: 5°C ~ 40°C Humidity: 35% ~ 80%
Audio	Head: Normal Audio/Control: 1 stationary head Hi-Fi Audio: 2 rotary heads Erase: 1 full track erase 1 Audio track erase Track: 2 tracks (Hi-Fi), 1 track (Normal) Input Level: LINE IN (PHONO × 2) - 8 dBv, 47 kΩ unbalanced Output Level: LINE OUT (PHONO × 2) - 8 dBv, 1 kΩ unbalanced Frequency Response: Normal: 50 Hz ~ 10 kHz (SP mode) Hi-Fi: 20 Hz ~ 20 kHz (SP mode) Signal-to-Noise Ratio: Normal Audio: 43 dB (SP mode)	Dimension	270 mm (W) × 344.5 mm (D) × 120 mm (H)
		Weight	5.1 kg
		Optional Accessories	Wired remote controller: AG-A11

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

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INTRODUCTION

This Service manual contains the technical information which service personnel to understand and service the Panasonic VHS Video Cassette Recorder model AG-5260.

Please use this service manual together with the Service Manual for mechanical adjustments and maintenance procedures of K-Mechanism (Order No. VSD9402M632).

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SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. 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.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. 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.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment 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 5.2 M ohm. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

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.
2. Connect a 1.5k ohm, 10 watts resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set and a good 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.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. 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.

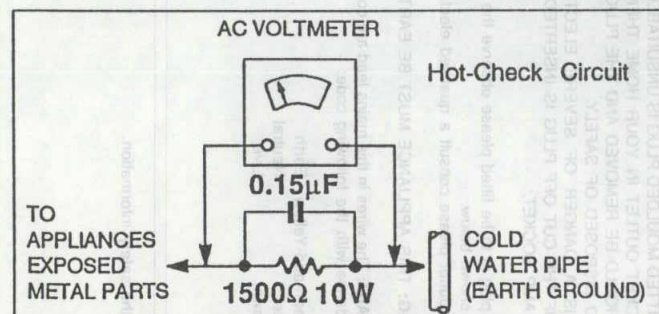


Figure 1

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.

1. 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 prevent electrostatic charge buildup 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 to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically 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. CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety 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).

IMPORTANT

"Unauthorized recording of copyrighted television programmes, films, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 13 amp fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

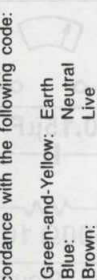
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.

WARNING: THIS APPLIANCE MUST BE EARTHED.

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

- Green-and-Yellow: Earth
- Blue: Neutral
- Brown: Live



is the safety information.

THIS APPARATUS MUST BE EARTHED.

To ensure safe operation the three-pin lead supplied must be connected only into a standard three-pin power point which is effectively earthed through the normal household wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

DO NOT REMOVE PANEL COVER BY UNSCREWING.

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

- If the unit is not going to be used for length of time, turn the power OFF and disconnect the power plug from the AC outlet.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

Remark:

This apparatus was produced to BS 800.

Dieses Modell entspricht der EG-Vorschrift (für Funkstörungsschutz) 87/308/EWG.

La Société PANASONIC-FRANCE, importateur du matériel MATSUSHITA-JAPON déclare que cet appareil est conforme aux prescriptions de la directive 76/889/C.E.E. modifiée par la directive 87/308/C.E.E.

Dit model is onderworpen aan de EEG-richtlijn (ter voorkoming van radio-interferentie) 87/308/EEG.

Denne model opfylder EF direktiv 87/308/EF (for forebyggelse af radiointerferens).

La Società PANASONIC ITALIA S.p.A., importatrice di questo prodotto, dichiara che questo apparecchio è conforme alle disposizioni della direttiva C.E.E./87/308 (D.M. 13.4.1989).

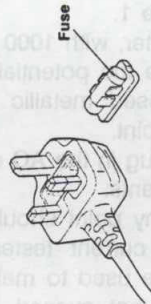
Este modelo cumple con la norma EC. (para interferencias de radio 87/308/EEC).



How to replace the fuse

1. Open the fuse compartment with a screwdriver.

2. Replace the fuse.



Thank you for purchasing the Panasonic

AG-5260

Video Cassette Recorder.

Contents

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Inspections

- Remote Controller AG-A11
- Video Cassette Tape
 - Use tapes complying with the VHS standard with this unit.
 - Use of Panasonic video tapes is recommended for recording and playback.

Features

- Recording and playback up to 3 or 6 hours**
- Using a 1/2 inch VHS cassette tape, you can record and playback in both the SP (3-hour) and LP (6-hour) mode.

Hi-Fi Audio

Compact and light weight

Repeat playback

- Repeat playback can be performed from tape beginning to its end or from tape beginning to interruption of the video signal.

Search playback

- Locating any desired scene or position on the tape is made easy and fast by watching the tape being played back at about 11 times (SP mode) or 15 times (LP mode) normal speed in forward or reverse direction.

Cassette tape insertion/ejection in power OFF mode

- Cassette tape insertion and ejection can be performed even when the power has been turned OFF.

Auto power ON

- Power is turned ON automatically when the cassette tape is inserted in the unit or the power cord is connected to the AC outlet.

Clear picture in still and slow-motion modes

Playback in the S-VHS mode

- With this unit, it is available to playback S-VHS cassette tape (SP mode only).

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Timer recording/playback

- Timer recording and playback can be performed by setting the timer start and end time besides the present time.

Built-in AGC (Automatic Gain Control) Circuit

- The video level can be adjusted at optimum level, and can be recorded at minimal distortion even with sudden and excessively high input levels.

Audio dubbing

- Audio dubbing can be performed onto the normal audio of the prerecorded tape.

External timer recording/playback

- External timer recording and playback can be performed using an external timer.

Automatic playback/rewind

- Playback or rewind starts automatically when the cassette tape is inserted in the unit.

Series playback

- Repeat playback is available between 2 VTRs.

Remote operation

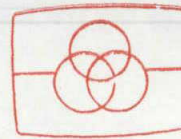
- Using an optional remote controller AG-A11, you can operate the unit about 5 meters away from the unit.

Serial remote operation

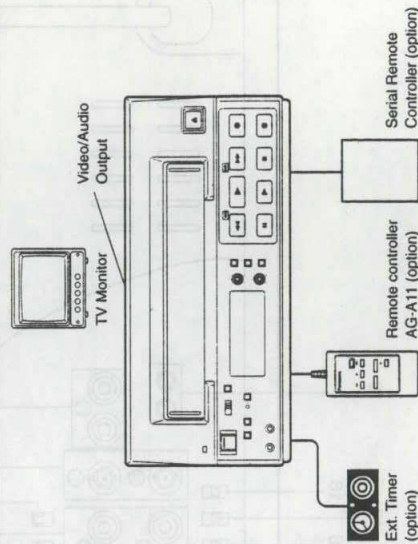
Automatic Tracking Function

- Tracking can be automatically adjusted by pressing the Tracking "L" and "R" Buttons simultaneously.

System Configurations



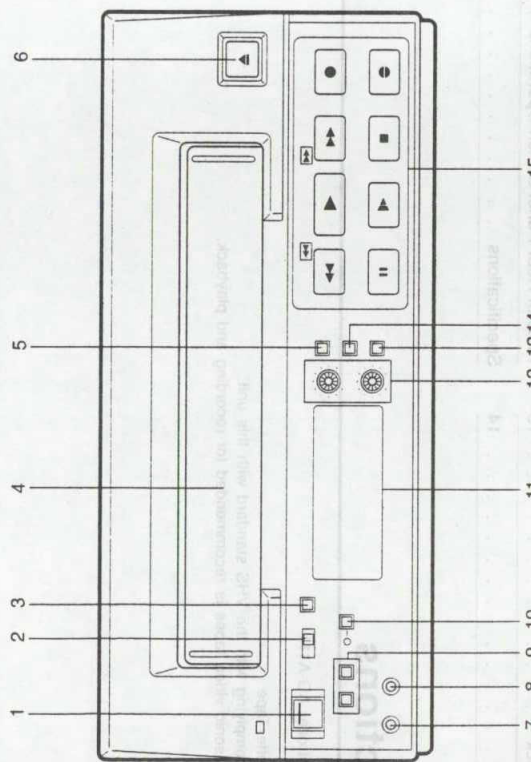
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OPERATING INSTRUCTIONS

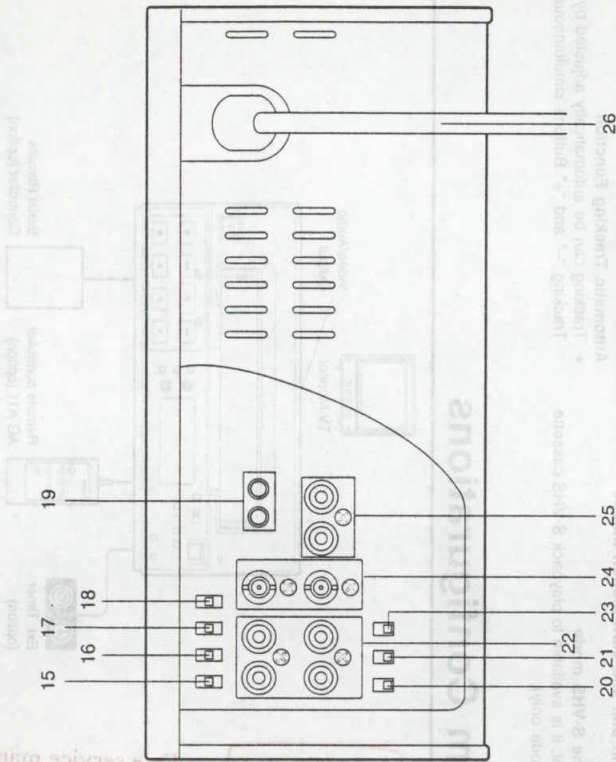
Controls

Front



No.	Name	Page	No.	Name	Page
1	VTR Switch	—	9	Tracking Buttons	10, 11
2	Timer Programme/Mode Lock Switch	10, 16 to 18	10	INT TIMER Switch	18
3	Audio Out Select Button	10, 11	11	Counter/Audio Level Meters	9, 11
4	Cassette Holder	—	12	Hi-Fi Audio Level Controls	9
5	Reset Button	11	13	Tape Speed Button	9
6	Eject Button	—	14	COUNTER MODE Button	11, 14
7	Remote Control Jack (Mini-Jack)	20	15	Operation Buttons (REW, PLAY, FF, REC, PAUSE/STILL, SLOW, STOP, AUDIO DUB)	9 - 18
8	Microphone Jack	9, 15			

Rear



No.	Name	Page	No.	Name	Page
15	TAPE IN Switch	10, 11, 19	21	AGC Switch*	—
16	Timer Switch (Auto Repeat)	9 to 12, 14, 15, 17 to 20	22	Audio CH1/CH2 IN/OUT Connectors (PHONO)	8, 9, 13 to 15
17	Auto Rewind Switch	10 to 13, 18, 19	23	TV System CCR/PAL Switch**	9, 10
18	Serial/Series Playback Switch	13, 19	24	Video IN/OUT Connectors (BNC)	8, 9, 13, 14
19	V-Lock Controls	20	25	Remote IN/OUT Connectors (PHONO)	19
20	Edit Switch	14	26	Power Cord	—

* When this switch is set to ON, the recording level is adjusted automatically.

** This switch offers CCR/PAL operations.

PAL: Recording and playback of PAL colour signal.
CCR: Recording and playback of CCR system.

AGC Switch: When this switch is set to ON, the recording level is adjusted automatically.

TV System CCR/PAL Switch: This switch offers CCR/PAL operations. PAL: Recording and playback of PAL colour signal. CCR: Recording and playback of CCR system.

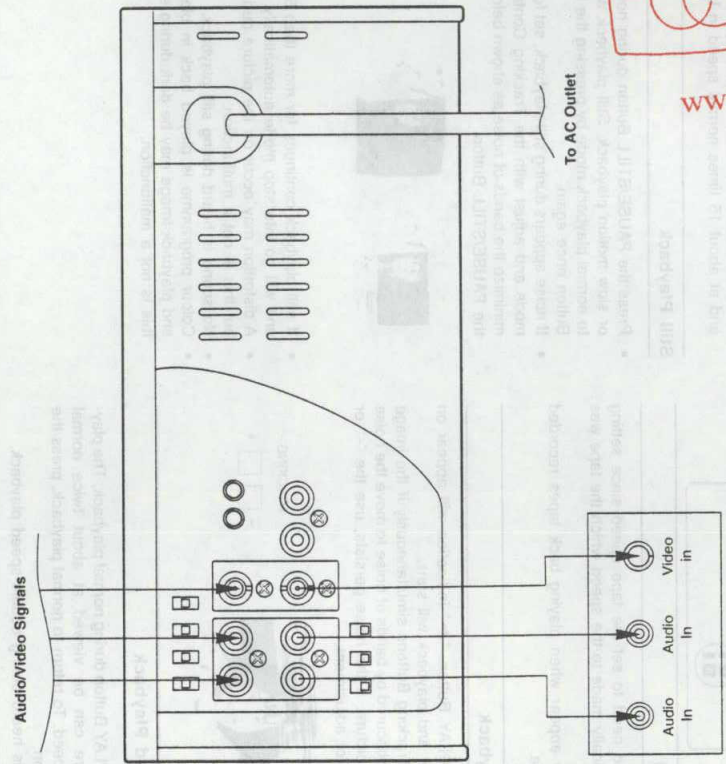
When this switch is set to ON, the recording level is adjusted automatically. This switch offers CCR/PAL operations. PAL: Recording and playback of PAL colour signal. CCR: Recording and playback of CCR system.

VG-2500

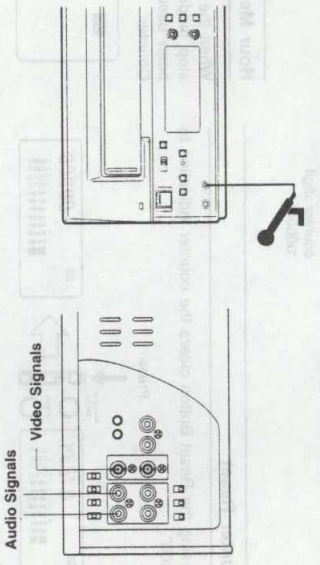
VCR

Thank you for purchasing the Panasonic

Connections with TV Monitor



Recording



Note:
If connections are made both to the MIC and audio jacks, the microphone takes precedence.

Audio Signals are recorded as described on the table.

CH	Normal
Hi-Fi	CH1
CH1	CH2
CH2	Mixed Audio (CH1 & CH2)

Recording

- Recording starts when the REC and PLAY Buttons are pressed simultaneously.

If the record safety tab on the cassette tape is not intact, the cassette tape will be ejected.

- When the PAUSE/STILL Button is used, the sequence of operation is as follows.
 - 1 Playback the tape and find the location which is to be recorded. Then press the PAUSE/STILL Button. The "|||" indication will appear on the Counter and the unit is set to the playback pause mode.
 - 2 Press the REC and PLAY Buttons simultaneously. The REC lamp now comes ON and the unit is set to the recording pause mode.
 - 3 When the PAUSE/STILL Button is pressed again, the unit is released from the pause mode and recording begins.

Stopping Recording

- Press the STOP Button.

Mode Lock Function

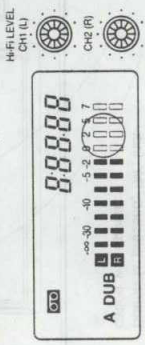
Mode Lock Function makes it impossible to switch from one VTR operation to another. Setting the Timer Programme/Mode Lock Switch to "MODE LOCK", the Power Switch and Operation Buttons do not function. However, operations from the remote controller are available.

Preparations

- Select the TV System CCIR/PAL Switch to the desired position.
- Set the Timer Switch and Edit Switch to "OFF".
- Load the pre-recorded cassette tape. (Make sure that the record safety tab on the cassette tape is intact.)

Audio Level Adjustment (Hi-Fi audio only)

- The audio level can be adjusted only for Hi-Fi audio. Adjust the Hi-Fi Audio CH1/CH2 Level Controls so that the audio level meter indication is set around 2 (so that the 2 level is not exceeded).

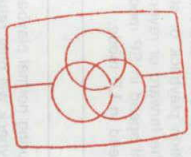


Tape Speed

- Press the Tape Speed Button to select the desired tape speed.

SPEED

- No indication (SP mode): Standard mode (recording for approx. 180 minutes using an NV-E180 tape)
- 6H (LP mode): Long play mode (recording for approx. 360 minutes using an NV-E180 tape)



Playback

Preparation

- Select the TV System CCIR/PAL Switch to the desired position.
- Set the following switches to "OFF":
 - TAPE IN Switch
 - Timer Programme/Mode Lock Switch
 - Auto Rewind Switch
 - Timer Switch
- Insert a recorded tape.

Audio Out Select Button

- Press the Audio Out Select Button to the desired position. This is to select the audio signal through Audio CH1/CH2 OUT Connectors. Each time the Audio Out Select Button is pressed, the audio output mode will change as follows:

Hi-Fi → L CH → R CH → No indication (Linear)



Tape Speed

- There is no need to set the tape speed since setting is automatically made to the speed which the tape was recorded.
- Noise may appear when playing back tapes recorded in LP mode.

Normal Playback

- Press the PLAY Button. "▶" indication will appear on the Counter and playback will start.
- Press the Tracking Buttons simultaneously if the image is partially obscured by bands of noise to move the noise out of the picture. If the noise persists, use the "←" or "→" Button for adjustment.



Double-speed Playback

- Press the PLAY Button during normal playback. The playback picture can be viewed at about twice normal playback speed. To return to normal playback, press the PLAY Button.
- No sound is heard during double-speed playback.

Slow Motion Playback

- Press the SLOW Button during playback. The playback picture can be viewed at a lower speed. Each time the SLOW Button is pressed, the unit will run at one of the slow motion speeds shown below. To return to normal playback, press the PLAY Button.

Normal speed → 1/30 → 1/20 → 1/15 → 1/10 → 1/6

- If slow motion playback continues for over 10 minutes, the unit will go into stop mode automatically.
- No sound is heard during slow motion playback.

Search Playback

- When the FF or REW Button is held down while the unit is in the playback, slow motion playback or still, the tape will be played back in the forward or reverse direction at about 11 times normal speed in SP mode, and at about 15 times normal speed in LP mode.

Still Playback

- Press the PAUSE/STILL Button during normal playback or slow motion playback. Still playback will only return to normal playback mode by pressing the PAUSE/STILL Button once again.
- If noise appears during still playback, set for slow motion mode and adjust with the Tracking Control Buttons to minimize the bands of noise as shown below, then press the PAUSE/STILL Button.



- If still playback continues for more than 5 minutes, the unit will go into stop mode automatically.
- A distortion may occur on the picture during still mode, but this is not a malfunction.
- No sound is heard during still playback.
- Colour programme is played back in black and white and playback image may be dark during still mode, but this is not a malfunction.

Automatic Playback/Rewind

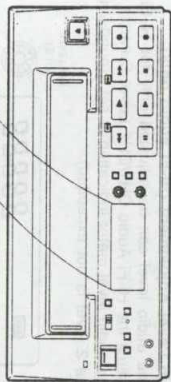
- Set the Auto Rewind Switch and the Timer Switch to OFF.

- 1 Set the TAPE IN Switch to "PLAY" or "REW".

- 2 Insert a cassette tape.
 - Automatic playback or rewind will start.

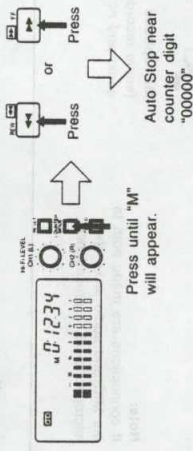
Counter

COUNTER MODE Button
When the COUNTER MODE Button is pressed, "M" indication will appear.



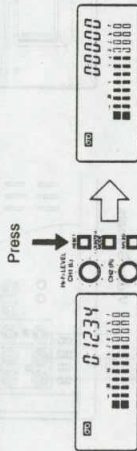
Memory Stop

- When the COUNTER MODE Button is pressed and the "M" display lights on the Counter, the tape can be stopped near counter digit "00000" during FF or REW modes.



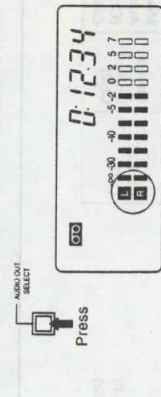
Counter Reset

- Pressing the Reset Button clears the counter indication to "00000".



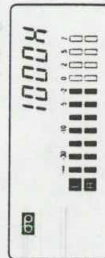
Audio Output

- Each time the power is turned ON, Hi-Fi mode is automatically selected for audio output (L and R indications both appear on the Counter). Use the Audio Out Select Button to select for the desired audio output.



Hour Meter

- When the Tracking Buttons are pressed simultaneously in stop mode, the total number of hours that the VTR has been used (the cylinder has turned) is indicated on the Counter.



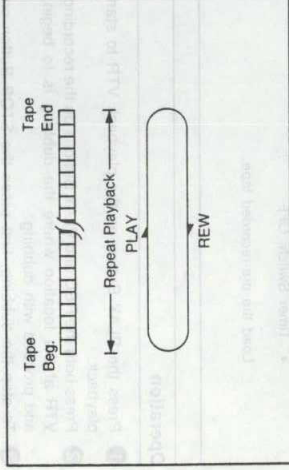
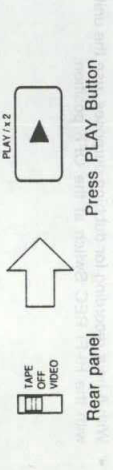
Repeat Playback

- Set the Timer Switch to "PLAY".
- Set the SERIAL/SERIES Playback Switch to "SERIAL".

Repeat playback between tape beg. and tape end

If it is desired to playback the tape repeatedly from tape beginning to tape end, proceed as follows:

- 1 Set the Auto Rewind Switch to "TAPE".
- 2 Press the PLAY Button.



- "C" indication will appear on the Counter when repeat playback setting is done.
- If a power failure occurs during this function, repeat playback will start after the power has been restored.

Series Playback

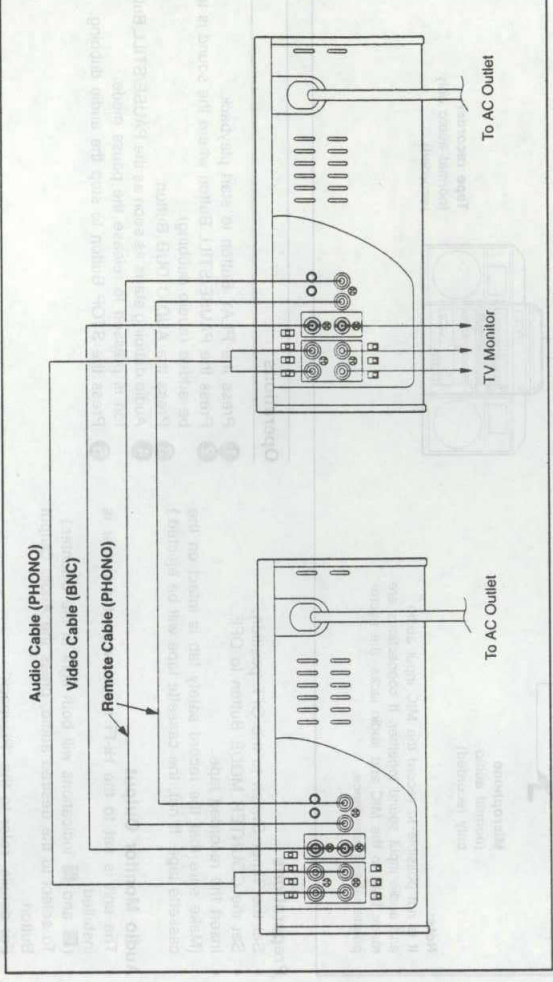
Connect two VTRs as shown below. When one of the VTR finishes playback, the other VTR starts playback. Setting the VTRs to auto rewind mode (selection of tape end or video signal end), repeat playback between one another is available.

- Set the Auto Rewind Switch to "TAPE" when performing repeat playback between tape beginning and tape end.
- Set the Auto Rewind Switch to "VIDEO" when performing repeat playback between tape beginning and end of video signal.
- If remote cable is not connected to the remote output connector of the VTR for subsequent playback, series playback will be performed only once.

Operations

- 1 Set the SERIAL/SERIES Playback Switch to "SERIAL PB".
- 2 Insert the recorded tape.
- 3 Search for the desired playback beginning point each VTR.
- 4 Press the PLAY Button of the VTR which is desired to be played back first.

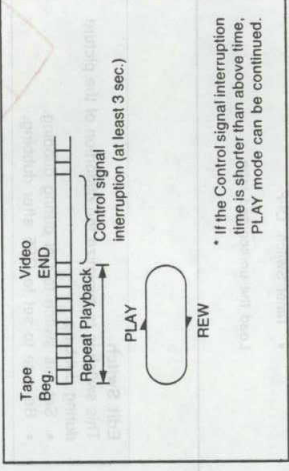
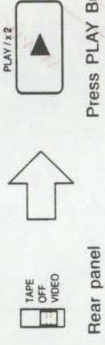
Playback starts the same as repeat playback. For details refer to the "Repeat Playback".



Use of Panasonic video tapes is recommended for series playback.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

Note:
Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.



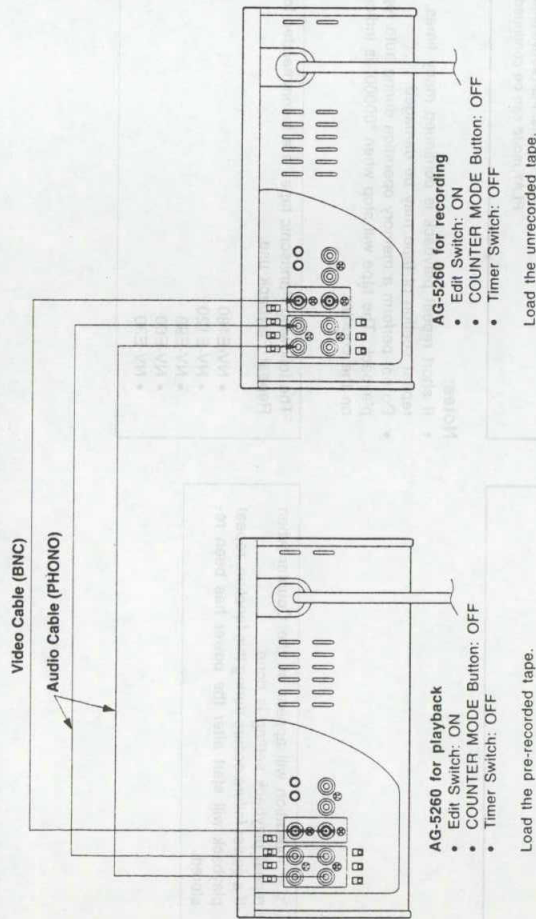
- Notes:**
- If short repeat playback is continued many times, the repeat section of tape may be damaged.
 - Do not perform a memory operation during auto repeat playback. The tape will stop when "00000" is indicated on the counter.

The following Panasonic tapes are recommended for Repeat Playback use.

- NV-E180
- NV-E120
- NV-E90
- NV-E60
- NV-E30

Dubbing

- Refer to the figure below for the connections which apply when using two VTRs for dubbing.



Operation

- Press the PLAY Button on the playback VTR to start playback.
 - Press both the REC and PLAY Buttons on the recording VTR at the location where the dubbing is to begin, and proceed with dubbing.
 - To stop the dubbing, first press the STOP Button on the recording VTR and then press the STOP Button on the playback VTR.
- With 6-hour recording for dubbing purposes, use the unit with the HI-FI REC Switch at the OFF position.

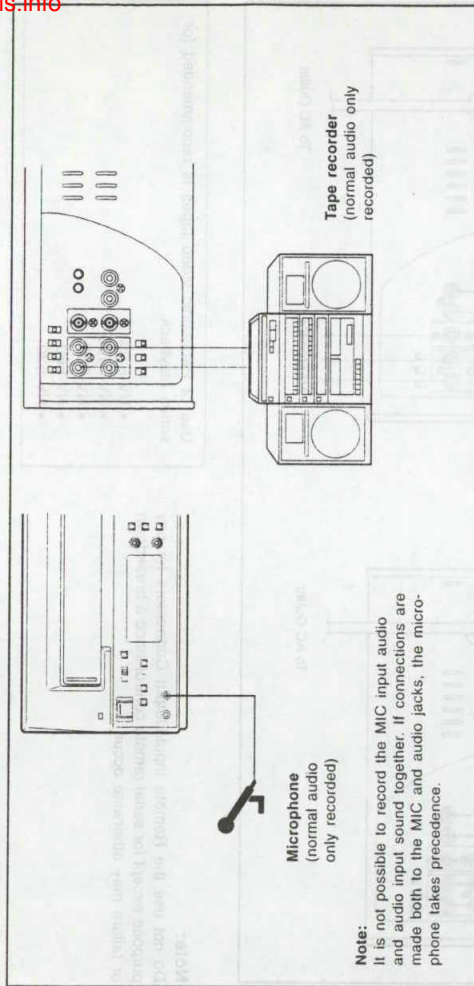
Edit Switch

This switch is to minimize the distortion of the picture during dubbing.

- Set this switch to ON during dubbing.
- Be sure to set to OFF after dubbing.

Audio Dubbing

"Audio Dubbing" is a function which records the sound after the cassette tape has been recorded. The sound is recorded on the normal audio track (and not on the HI-FI audio tracks).



Preparations

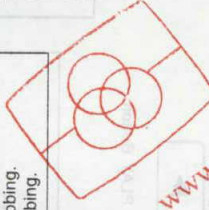
- Set the Timer Switch to the OFF position.
- Set the COUNTER MODE Button to OFF.
- Insert the recorded tape.
- (Make sure that the record safety tab is intact on the cassette tape. If not, the cassette tape will be ejected.)

Audio Monitor Output

- The unit is set to the HI-FI mode when the power is installed.
 - To select to the desired audio, press the Audio Output Button.
- For details, refer to the "Playback".

Operations

- Press the PLAY Button to start playback.
- Press the PAUSE/STILL Button where the sound is to be added (audio dubbing).
- Press the AUDIO DUB Button.
- Audio dubbing starts as soon as the PAUSE/STILL Button is pressed to release the pause mode.
- Press the STOP Button to stop the audio dubbing.



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Timer Programme/Mode Lock Switch

The counter changes to time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".

Use these buttons for setting.

Operation

- 1 Set the Timer Programme/Mode Lock Switch to "TIME/PGM". The "HOUR" part will flash.
- 2 Set the "HOUR" using the STOP (-) Button or the AUDIO DUB (+) Button.
- 3 Press the SLOW (S) Button and move the flashing to the "MINUTE" part.
- 4 Set the "MINUTE" using the STOP (-) or the AUDIO DUB (+) Button.
- 5 Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".

Note:

- The "SECOND" will be automatically set to "00" when time setting is performed.

Timer Programme/Mode Lock Switch

The counter changes to time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".

Use these buttons for setting.

Timer Programme/Mode Lock Switch

The counter changes to timer start/end time setting display when the Time Programme/Mode Lock Switch is set to "TIME/PGM".

Use these buttons to set the timer recording/playback.

INT TIMER Switch

Preparations

- Set the Timer Switch to "PLAY" or "REC".

Operation

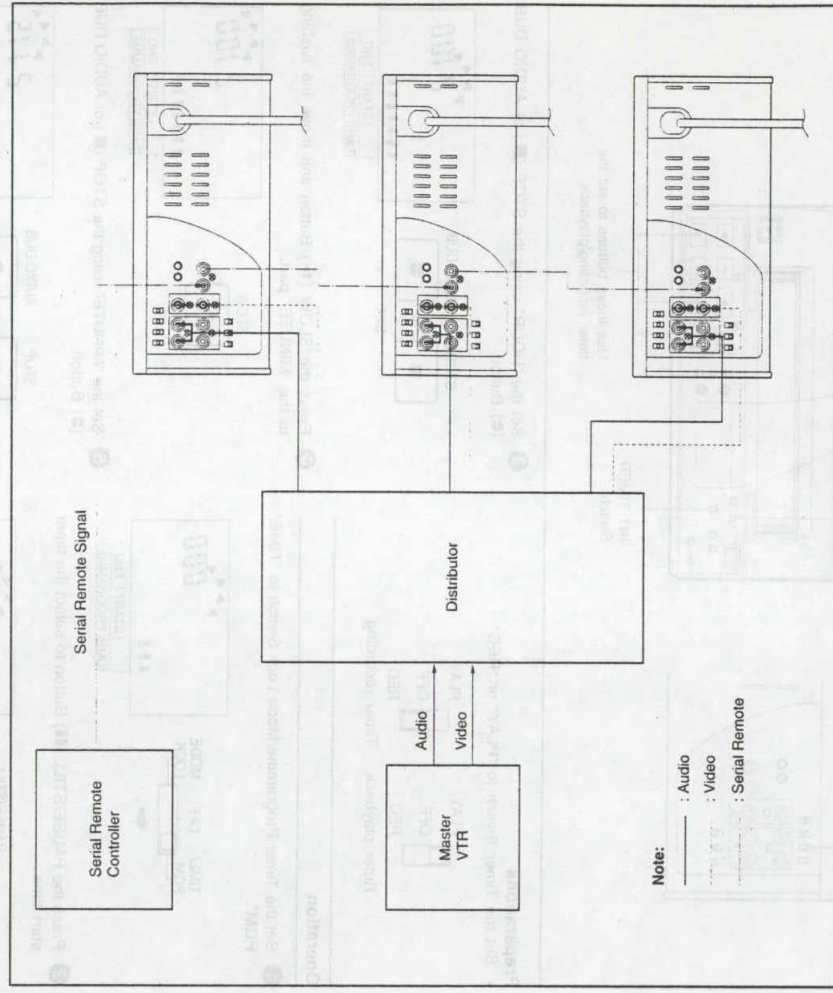
- 1 Set the Timer Programme/Mode Lock Switch to "TIME/PGM".
- 2 Press the PAUSE/STILL (II) Button to select the timer start time.
- 3 Set the "HOUR" using the STOP (■) or AUDIO DUB (▲) Button.
- 4 Press the SLOW (S) Button and move the flashing to the "MINUTE" part.
- 5 Set the "MINUTE" using the STOP (■) or AUDIO DUB (▲) Button.

Serial Remote Control

The use of the optional serial remote controller makes it possible to conduct recording, playback and other operations from a distance, as shown in the figure. For details, consult with your authorized service personnel.

Preparations

- Set the TAPE IN Switch to "OFF".
- Set the Timer Switch to "OFF".
- Set the Serial/Series Playback Switch to "SERIAL".



Note:

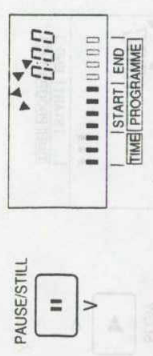
- : Audio
- - - : Video
- ⋯ : Serial Remote

Note: Do not use the Remote Input/Output Connectors for any purpose except for serial remote control since a breakdown or failure may otherwise occur.

Notes:

- If the Timer Switch is set to "OFF", the unit will be powered ON when the starting time comes.
- When auto repeat playback is desired with timer playback, set the Timer Switch to "PLAY" and the Auto Rewind Switch to "TAPE" or "VIDEO". For details, refer to the "Repeat Playback".
- When performing timer recording, make sure that the record safety tab on the cassette tape is intact. If the record safety tab is not intact, the cassette tape will be ejected automatically.
- The cassette tape cannot be ejected when the INT TIMER Lamp is lighted.
- When the timer starting time and the timer end time are set to the same, timer recording or playback will commence all day long.
- As the tape cannot be rewound automatically, timer recording cannot be performed when the unit reaches to the tape end.

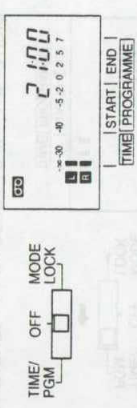
6 Press the PAUSE/STILL (II) Button to select the timer end time.



7 Repeat step 3 to 5 and set the "HOUR" and "MINUTE" of the timer end time.



8 Set the Timer Programme/Mode Lock Switch to "MODE LOCK" or "OFF".



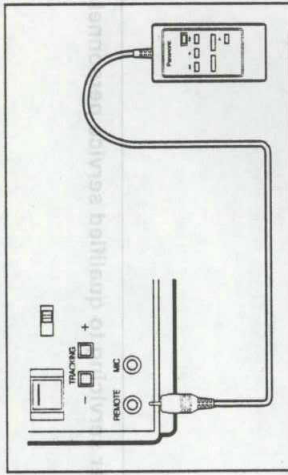
9 Press the INT TIMER Switch. The INT TIMER Lamp lights.



10 The power will be automatically ON from 21:15 to 22:45 and the unit will either start timer recording or playback according to the setting of the Timer Switch.

Remote Controller

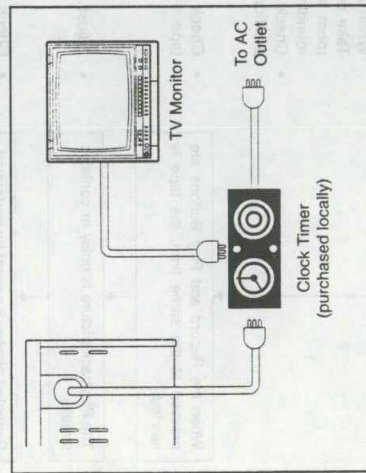
When the optional remote controller AG-A11 is connected to the Remote Control Jack on the front panel of this unit, the unit can be controlled from a distance instead of using the operation buttons on the unit.



External Timer Recording/Playback

The use of an external timer permits timer recording/playback with this unit.

- Connect the timer with this unit and the TV Monitor as follows:



Preparation

- Turn this unit and the TV Monitor ON.
 - Insert the cassette tape.
- 1 Set the timer to the desired ON and OFF time. (Refer to the operating instructions for the timer.)
 - It takes about one minute to load the tape inside the unit. Therefore, set the timer pre-set time about one minute.
 - 2 Set the Timer Switch to "REC" or "PLAY".
 - 3 At the preset ON time, the power will be automatically turned ON, the tape will start moving, and the picture will appear on the monitor.
 - 4 At the preset OFF time, the unit will be turned off, but the tape will remain loaded on the cylinder of the unit. (When the power is resumed, the tape will be unloaded and then the unit will go into the recording/playback mode.)
- Notes:**
- Whenever possible it is best to set the timer OFF position so that the unit is turned OFF about 10 minutes after the tape ends. This will help protect the tape. If, for example, NV-E180 tape is used, the turn-off time should be set for about 190 minutes.
 - Press the STOP Button to stop the timer recording/playback.

V-LOCK Adjustment

If picture jitters vertically in STILL, adjust the V-Lock Controls on the rear panel, but a time adjustment should be necessary.



Cautions for Use

- Do not insert fingers or any other objects into the video cassette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, turn the Power OFF and disconnect the power plug from the AC outlet.
- Do not leave a cassette in the unit when not in use.
- Do not block the ventilation slots on the top of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Keep the VTR away from flower vases, tubs, sinks, etc. CAUTION: If liquids should be spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, remove power and consult qualified service personnel.
- Wipe the VTR with a clean, dry cloth. Never use cleaning fluids, chemicals or wax.
- Do not attempt to disassemble the unit. There are no user serviceable parts inside.
- If any liquid spills inside the unit, have the unit examined for possible damage.
- Refer any needed servicing to authorized service personnel.

Cleaning care for video heads

If the screen should appear as shown below, it means that the video heads are dirty. It is recommended that you clean the heads periodically. Use the optional cleaning tape and special purpose cleaning fluid to clean the heads. Consult with your dealer if the symptoms should persist even after cleaning.



Note:

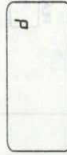
- We do not recommend that you attempt to clean the video heads yourself.
- Repeated head cleaning will shorten the service life of the video heads.
- Nothing can be recorded on the head cleaning tape.
- If you use cleaning fluid, wipe the cleaned heads with a dry cloth before using the unit.

Dew Indication

When dew is detected, the safety device of this unit will operate in order to protect the cassette tape and video heads.

In case of dew detection, the "d" mark in the counter lights will turn ON.

"d" mark lights.



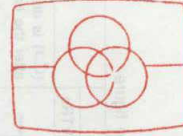
Note

Dew condensation normally occurs gradually. Therefore, there may be cases in which the "d" mark does not start flashing until 10 or 15 minutes after dew has begun to condense. In particular, if the temperature or humidity in the room change, wait about 20 minutes before using the unit.

Cause of Condensation

Condensation forms if warm air comes in contact with a cold object, for example on a window in a well-heated room in winter. It may form if the unit or the video cassette is exposed to sudden changes in temperature and humidity such as may occur when the unit or the video cassette is taken from a cold to a warm place. For instance:

- In a room where the heater has just been turned on in winter;
- In a room with steam or high humidity;
- If the unit or the cassette is brought from cold surroundings into a well-heated room.



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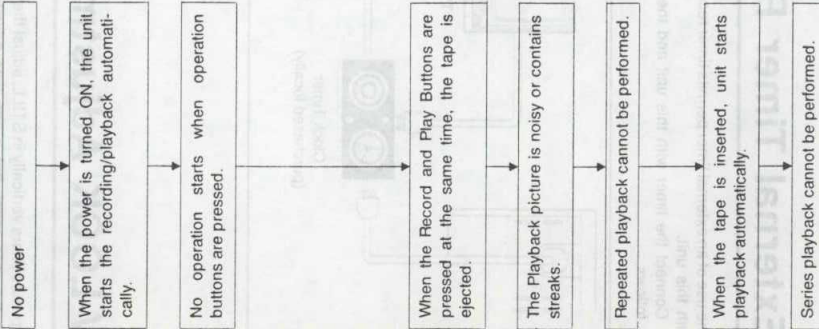
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Troubleshooting

...Check the following points once again.

Trouble



Corrections

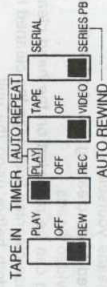
- Check that the power cord is connected to the AC Outlet.
- Check that the Timer Switch is OFF.
- Check that the VTR Switch is ON.
- Check that the cassette tape is inserted.
- Check the "d" mark lights:
Take out the video cassette and leave the unit on and let it remain at room temperature until "d" mark disappears. Depending on the surrounding conditions, this may take several hours.
- Check that the Time Programme/Mode Lock Switch is set to the "OFF" position.
- Check that the erasure prevention tab is still intact on the back of the tape.
- Adjust by the Tracking Control Buttons.
- Check that the Timer Switch is set to the "OFF" position.
- Check that the Auto Rewind Switch is set to the "OFF" position.
- Check that the Serial/Series Playback Switch is at the "SERIAL" position.
- Check that the TAPE IN Switch is at the "OFF" position.
- Check that the Serial/Series Playback Switch is at the "SERIES PB" position.

Refer servicing to qualified service personnel.

Table of Rear Panel Switch Operations

The table below lists the switch settings which apply when the rear panel switches are to be operated. Set the switches to the positions that correspond with the intended operation.

The following figure shows the rear panel switch area.



When using the unit in the modes listed below, set the switches as shown in the figure.

Operation	Switch position		Remarks
	1st VTR	2nd and subsequent VTRs	
1 Timer series playback (2 or more VTRs connected)			(⏮) is displayed for 10 seconds after the timer has been set ON.
2 Timer playback back (1 VTR connected)			(⏮) is displayed for 10 seconds after the timer has been set ON.
3 Timer auto repeat playback (1 VTR connected)			(⏮) is displayed for 10 seconds with series playback and all the time with serial playback after the timer has been set ON.
4 Manual series playback (2 or more VTRs connected)			(⏮) is displayed all the time after the timer has been set ON.
5 Manual playback back (1 VTR connected)			PLAY/x.2 is displayed
6 Manual auto repeat playback (1 VTR connected)			PLAY/x.2 is displayed all the time.

- The position of the cassette IN switch has no bearing on any of the above operations.
- Set the auto repeat switch to the "tape" or "video" position unless "without auto rewind" applies.
- To initiate operations from **4** manual series playback to **6** manual auto repeat playback, press the play button upon completion of the settings.

1-2. SERVICE INFORMATION

1-2-1. Emergency Cassette Removal

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to removing cassette manually. There are 2 methods of removing the cassette.

A. Hand Operation

Remove the Bottom Plate.

Turn the worm gear to arrow mark direction by finger as shown in Fig.S1 until the loading post move to unloading position.

Turn the capstan rotor clockwise to take up the tape.

Turn the worm gear again to eject the cassette.

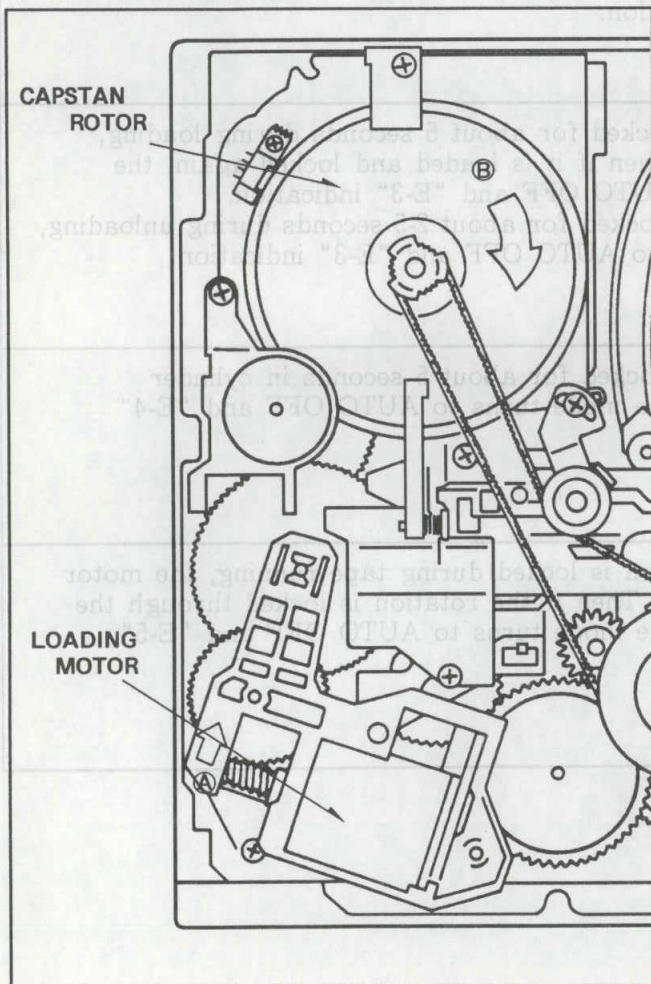


Fig. S1

B. Battery Operation

1. Remove the Bottom Plate.
2. Connect the battery (Manganese-Type (AA) 3pcs./+4.5V) to P1503 as shown in Fig.S2.
3. After moving the loading post to the unloaded position, disconnect the battery to stop the loading motor.
4. Turn the capstan rotor clockwise to take up the tape.
5. Reconnect the battery to eject the cassette.

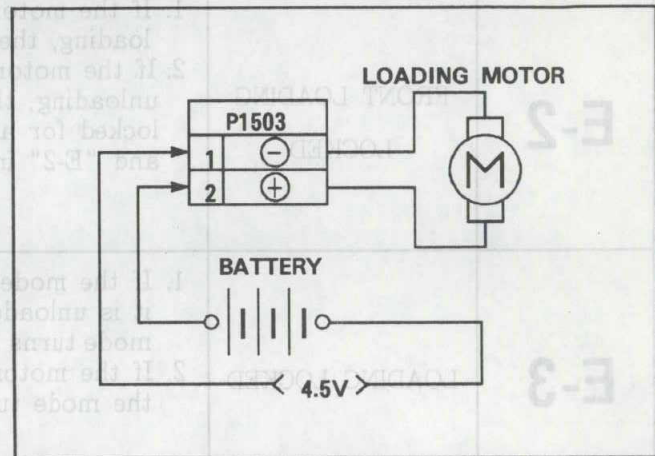


Fig. S2

1-2-2. Hour Meter Reset

1. Turn off by the power key.
2. Connect jumper wire between TP6104 and GND on the Main C.B.A.
3. Turn on unit by the power key whiles press the tracking "+" and "-" buttons simultaneously.
4. Flushing the all LCD display. (approx.4sec)
5. Hour meter reset when stop the LCD flushing.

1-2-3. Auto Off Operation & Error Code

ERROR CODE	CONTENS	CAUSE CONDITION
d	CONDENSATION (DEW)	<ol style="list-style-type: none"> 1. If it is in POWER OFF mode, the mode turns to POWER ON and "d" indication. 2. If a tape is inserted, the mode turns to middle EJECT position and the cylinder rotates. 3. Dew condensation continues for about 120 minutes. 4. After cancelling condensation, if a tape is inserted, the mode turns to STOP.
E-2	FRONT LOADING LOCKED	<ol style="list-style-type: none"> 1. If the motor is locked for about 2-5 seconds during front loading, the motor is unloaded. 2. If the motor is locked for about 2-5 seconds during front unloading, the motor is unloaded after loading. Then if it is locked for about 2-5 seconds, the mode turns to AUTO OFF and "E-2" indication.
E-3	LOADING LOCKED	<ol style="list-style-type: none"> 1. If the mode is locked for about 5 seconds during loading, it is unloaded. Then if it is loaded and locked again, the mode turns to AUTO OFF and "E-3" indication. 2. If the motor is locked for about 2-5 seconds during unloading, the mode turns to AUTO OFF and "E-3" indication.
E-4	CYLINDER LOCKED	<ol style="list-style-type: none"> 1. If the motor is locked for about 5 seconds in cylinder rotating mode, the mode turns to AUTO OFF and "E-4" indication.
E-5	REEL LOCKED	<ol style="list-style-type: none"> 1. If the reel rotation is locked during tape running, the motor is unloaded once. Then if the rotation is locked through the trying to load, the mode turns to AUTO OFF and "E-5" indication.

DISASSEMBLY PROCEDURE

2-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing. When reassembling, perform the steps in the reverse order.

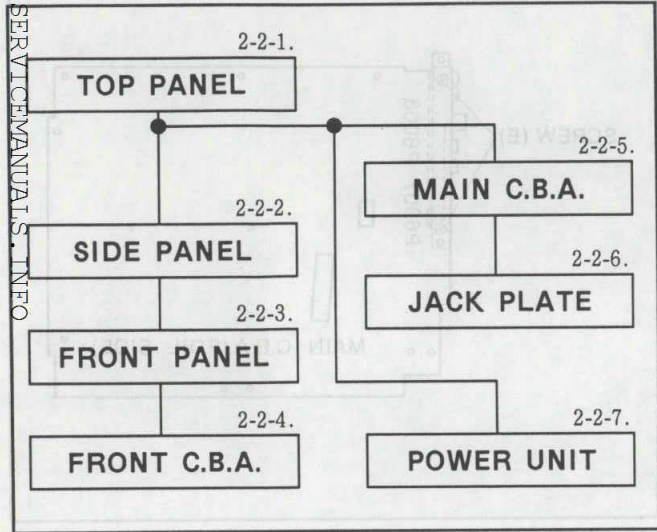


Fig. D1

2-2. DISASSEMBLY METHOD

2-2-1. Removal of the Top Panel

1. Unscrew the 2 screws (A) on the top of the unit and lift up rear portion of the Top Panel then slide it off the back of the unit.

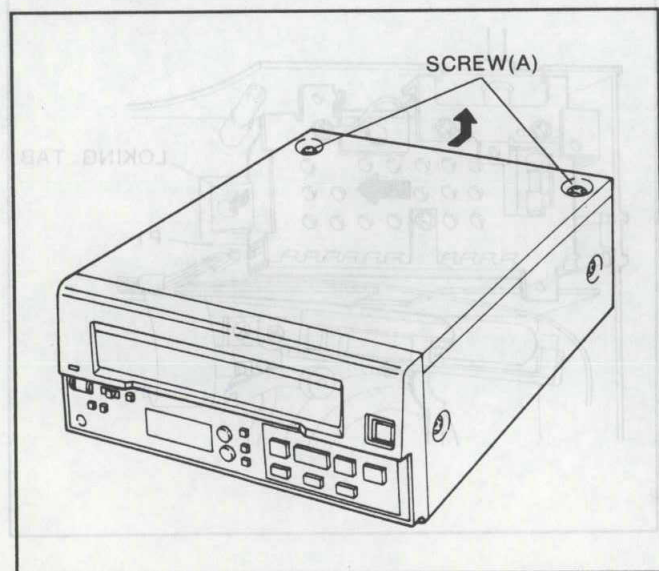


Fig. D2

2-2-2. Removal of the Side Panel

1. Unscrew 2 screws (B) on the side of the unit for each the Side Panel and remove the Side Panel.



Fig. D3

2-2-3. Removal of Front Panel

1. Unlock the 4 locking tabs on the top and bottom of the Front Panel then pull the panel off the unit.

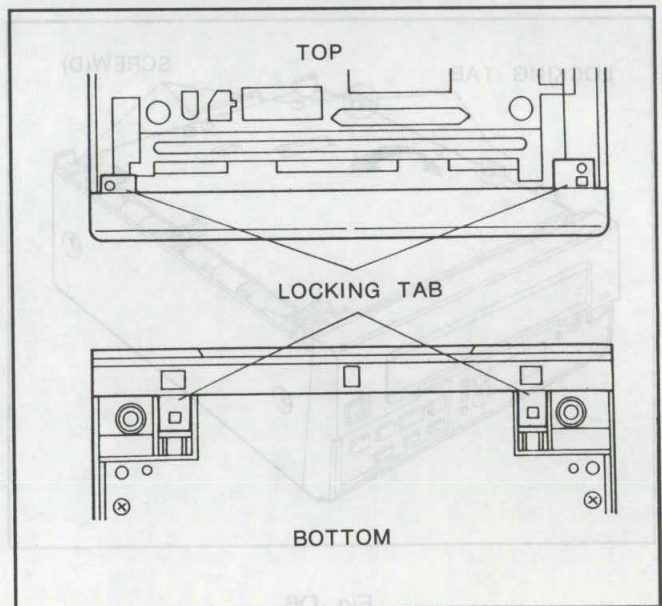


Fig. D4

2-2-4. Removal of the Front C.B.A.

1. Unscrew 2 screws (C), disconnect 2 flexible cables from the P6501 and P6502.
2. Unlock 3 locking tabs on the Front C.B.A.
3. Carefully pull the Front C.B.A. off the unit.

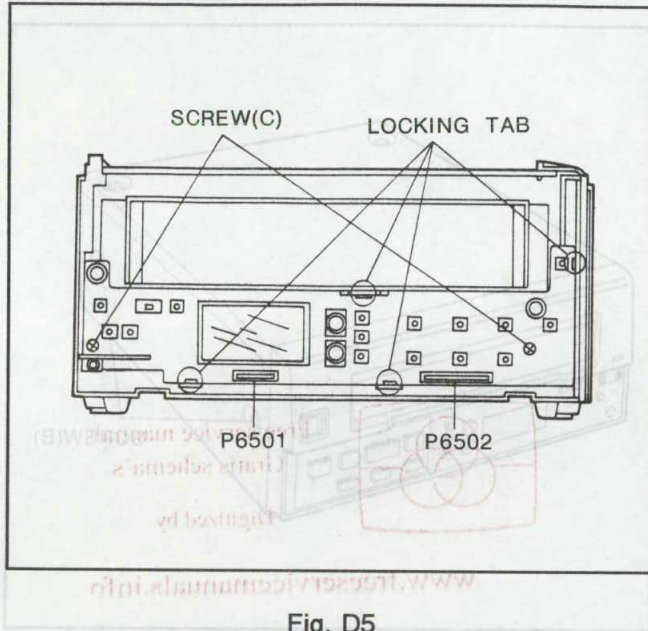


Fig. D5

2-2-5. Opening of the Main C.B.A.

1. Unscrew 3 screws (D) on the Main C.B.A.
2. Unlock 2 locking tabs and carefully open the Main C.B.A.

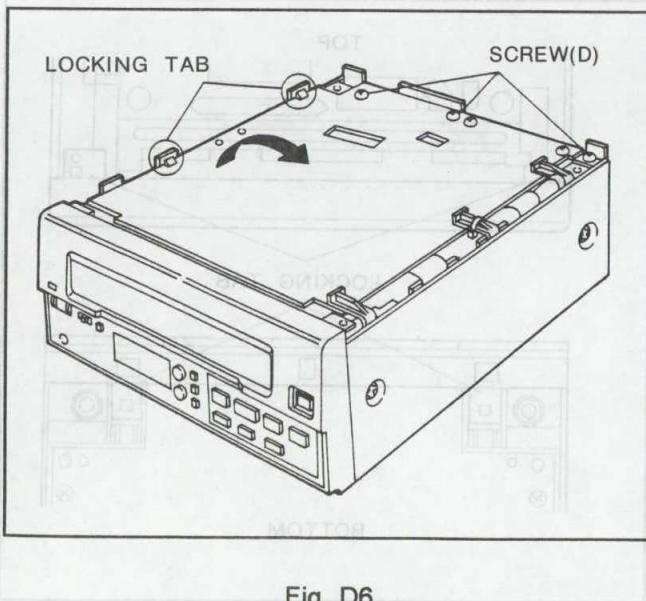


Fig. D6

2-2-6. Removal of the Jack Plate

1. Unscrew 2 screws (E) on the foil side of the Main C.B.A.
2. Carefully pull out the Rear Jack C.B.A. with the Rear Plate that connected the P6007 and P6008 on the Main C.B.A.

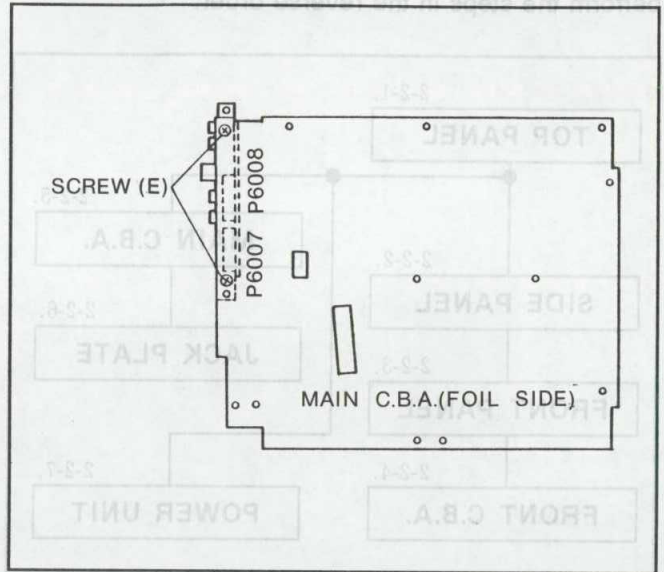


Fig. D7

2-2-7. Removal of the Power Supply Unit

1. Disconnect P1 connector in side of the Power Supply Unit.
2. Push down the locking tab and carefully slide the Power Supply Unit then lift it up from the unit.

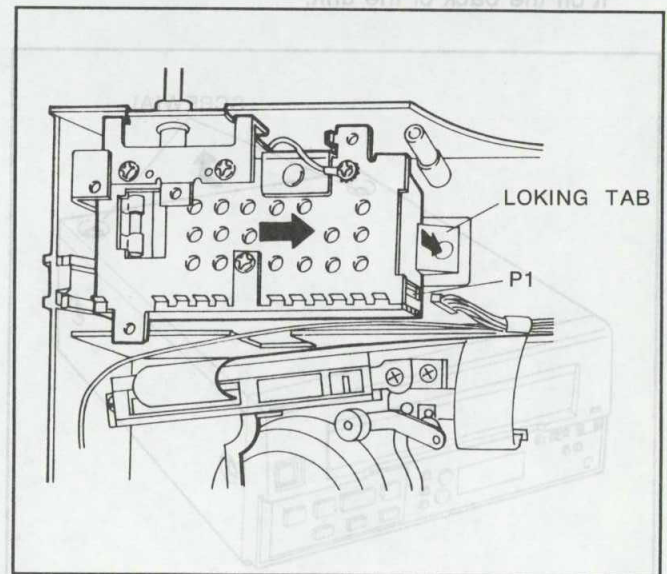
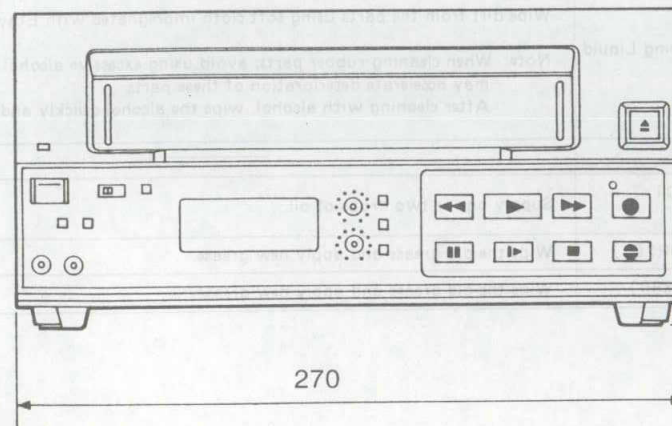
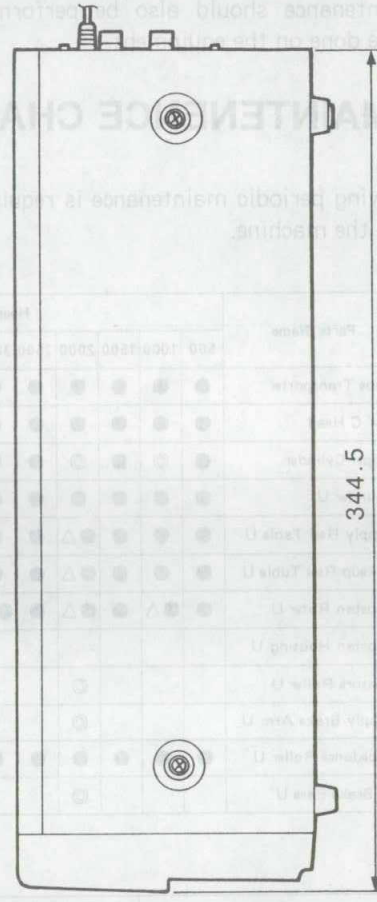
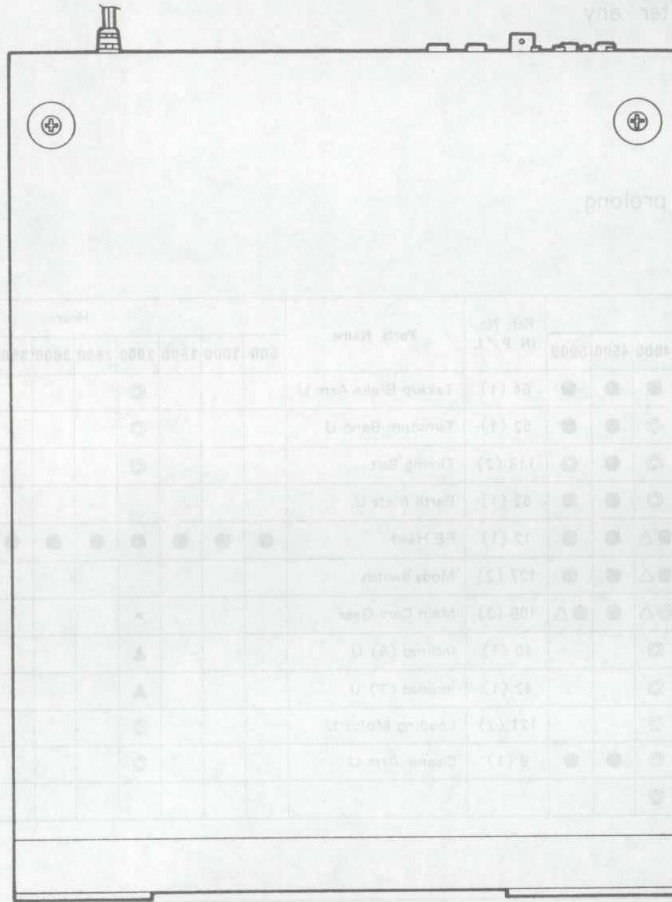
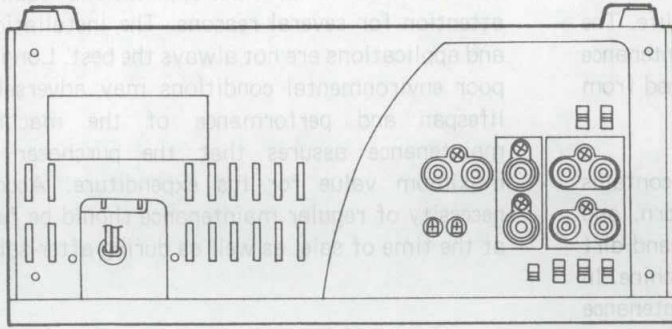


Fig. D8

DIMENSIONS

REGULAR MAINTENANCE

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unit : mm

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 piece of equipment. It contains many belts, rollers, heads etc., which become worn, and deteriorate 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.

3-1. MAINTENANCE CHART

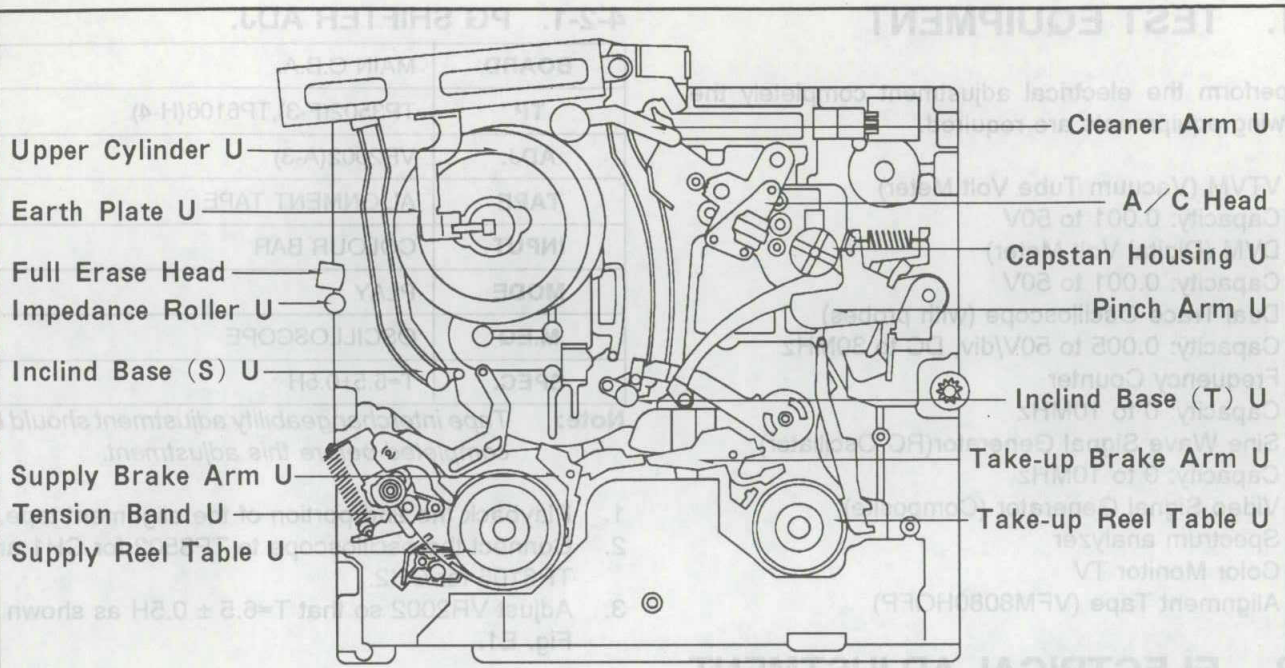
The following periodic maintenance is required to prolong the life of the machine.

Ref. No. IN P/L	Parts Name	Hour										Ref. No. IN P/L	Parts Name	Hour									
		500	1000	1500	2000	2500	3000	3500	4000	4500	5000			500	1000	1500	2000	2500	3000	3500	4000	4500	5000
—	Tape Transporter	●	●	●	●	●	●	●	●	●	●	64 (1)	Takeup Brake Arm U				⊙				⊙		
20 (1)	A/C Head	●	●	●	●	●	●	●	⊙	●	●	52 (1)	Tension Band U				⊙				⊙		
71 (1)	Upper Cylinder	●	⊙	●	⊙	●	⊙	●	⊙	●	⊙	113 (2)	Timing Belt				⊙				⊙		
70 (1)	Cylinder U	●	●	●	●	●	●	●	⊙	●	●	62 (1)	Earth Plate U								⊙		
60 (1)	Supply Reel Table U	●	●	●	△	●	●	●	△	●	●	12 (1)	FE Head	●	●	●	●	●	●	●	⊙	●	●
61 (1)	Takeup Reel Table U	●	●	●	△	●	●	●	△	●	●	127 (2)	Mode Switch								⊙		
106 (2)	Capstan Rotor U	●	△	●	△	●	△	●	△	●	△	108 (2)	Main Cam Gear				x				x		
105 (2)	Capstan Housing U								⊙			40 (1)	Inclined (S) U				▲				▲		⊙
49 (1)	Pressure Roller U				⊙				⊙			42 (1)	Inclined (T) U				▲				▲		⊙
63 (1)	Supply Brake Arm U				⊙				⊙			121 (2)	Loading Motor U				⊙				⊙		
15 (1)	Impedance Roller U	●	●	●	●	●	●	●	⊙	●	●	9 (1)	Cleaner Arm U				⊙				⊙		
128 (2)	SS Brake Base U				⊙				⊙														

*** NOTE:**

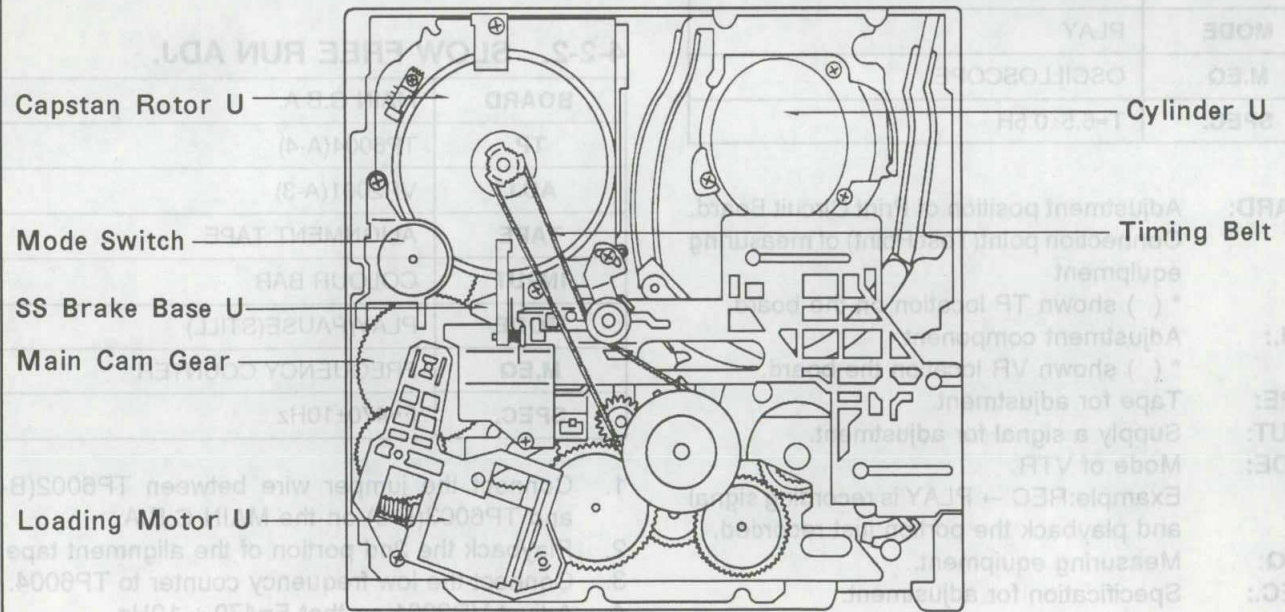
Symbol	Maintenance	Requirement	Remark
●	Cleaning	Ethyl-alcohol or Cleaning Liquid (Purchase locally)	Wipe dirt from the parts using soft cloth impregnated with Ethyl-Alcohol. Note: When cleaning rubber parts, avoid using excessive alcohol since it may accelerate deterioration of these parts. After cleaning with alcohol, wipe the alcohol quickly and thoroughly.
⊙	Replacement		
△	Lubrication	High Quality Spindle Oil (Purchase locally)	Supply one or two drops of oil.
▲	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
x	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

3-2. PARTS LOCATION



TOP VIEW

BOTTOM VIEW



ELECTRICAL ADJUSTMENT PROCEDURES

4-1. TEST EQUIPMENT

To perform the electrical adjustment completely the following equipments are required.

1. VTVM (Vacuum Tube Volt Meter)
Capacity: 0.001 to 50V
2. DVM (Digital Volt Meter)
Capacity: 0.001 to 50V
3. Dual-Trace Oscilloscope (with probes)
Capacity: 0.005 to 50V/div, DC to 30MHz
4. Frequency Counter
Capacity: 0 to 10MHz
5. Sine Wave Signal Generator(RC Oscillator)
Capacity: 0 to 10MHz
6. Video Signal Generator (Composite)
7. Spectrum analyzer
8. Color Monitor TV
9. Alignment Tape (VFM8080HQFP)

4-2. ELECTRICAL ADJUSTMENT PROCEDURES

HOW TO READ THE ADJUSTMENT PROCEDURE TABLE

BOARD	MAIN C.B.A.
TP	TP3502(F-2)
ADJ.	VR2002(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOR BAR
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	T=6.5±0.5H

- BOARD:** Adjustment position of Print Circuit Board.
TP: Connection point(Test Point) of measuring equipment
 * () shown TP location on the board.
ADJ.: Adjustment component
 * () shown VR location the board.
TAPE: Tape for adjustment.
INPUT: Supply a signal for adjustment.
MODE: Mode of VTR.
 Example:REC → PLAY is recording signal and playback the portion just recorded.
M.EQ: Measuring equipment.
SPEC.: Specification for adjustment.

4-2-1. PG SHIFTER ADJ.

BOARD	MAIN C.B.A.
TP	TP3502(F-3),TP6106(H-4)
ADJ.	VR2002(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOUR BAR
MODE	PLAY
M.EQ	OSCILLOSCOPE
SPEC.	T=6.5±0.5H

Note: Tape interchangeability adjustment should be completed before this adjustment.

1. Playback the 2nd portion of the alignment tape.
2. Connect the oscilloscope to TP3502 for CH1 and TP6106 for CH2.
3. Adjust VR2002 so that T=6.5 ± 0.5H as shown in Fig. E1.

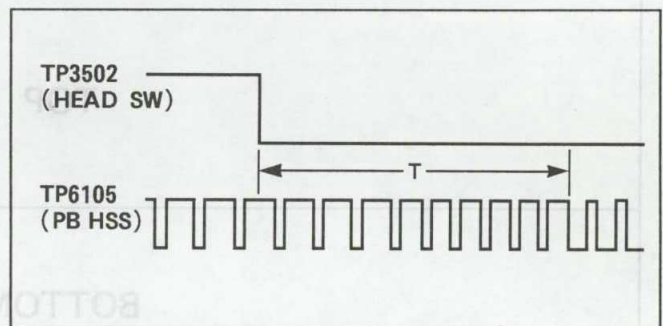


Fig.E1

4-2-2. SLOW FREE RUN ADJ.

BOARD	MAIN C.B.A.
TP	TP6004(A-4)
ADJ.	VR2001(A-3)
TAPE	ALIGNMENT TAPE
INPUT	COLOUR BAR
MODE	PLAY/PAUSE(STILL)
M.EQ	FREQUENCY COUNTER
SPEC.	F=470±10Hz

1. Connect the jumper wire between TP6002(B-8) and TP6003(B-8) on the MAIN C.B.A.
2. Playback the 2nd portion of the alignment tape.
3. Connect the low frequency counter to TP6004.
4. Adjust VR2001 so that F=470 ± 10Hz.
5. Remove a jumper wire when completed this adjustment.

4-2-3. SLOW TRACKING ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR2006(A-3),6H:VR2004(B-4)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	MONITOR TV
SPEC.	NO NOISE BAR APPEAR ON MONITOR TV

Note: SLOW FREE RUN adjustment should be completed before this adjustment.

- Record the colour bar signal a few minute in the 3H and 6H tape speed mode.
- Set the tracking to fix position that press the tracking buttons (+)/(-) simultaneously.
- Place the unit in SLOW mode.
- Adjust VR2006(3H) and VR2004(6H) until noise bar disappear on the monitor screen.

4-2-4. V LOCK ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR2008(B-4),6H:VR2007(B-5)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY/PAUSE
M.EQ	MONITOR TV
SPEC.	NO V-DANCING ON MONITOR TV

Note: SLOW TRACKING adjustment should be completed before this adjustment.

- Set the V LOCK volume VR6901(3H) and VR6902(6H) to center position on the rear jack panel.
- Record the colour bar signal a few minute in the 2H and 6H tape speed mode.
- Place the unit in STILL mode at 3H recorded portion.
- Adjust VR2008 so that the V-dancing does not appear on monitor screen.
- Place the unit in STILL mode at 6H recorded portion.
- Adjust VR2007 so that the V-dancing does not appear on monitor screen.

4-2-5. AGC LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	VR3001(D-6)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC or STOP
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p

- Set the AGC SW to ON side.
- Place the unit in the recording or stop mode with the colour bar signal.
- connect Video out to the oscilloscope with a 75ohm termination.
- Adjust VR3001 so that video level becomes 1.0 ± 0.05 Vp-p.

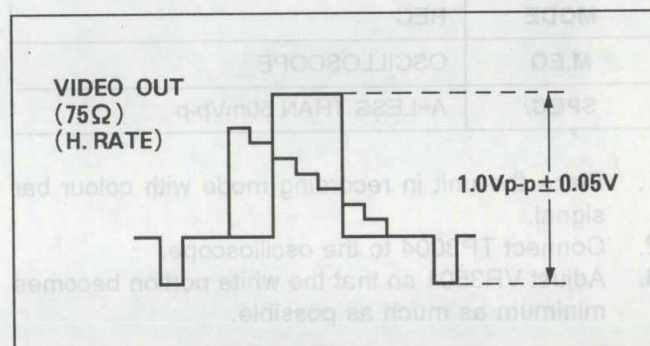


Fig. E2

4-2-6. Y LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	VR3004(G-4)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC or STOP
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p

Note: AGC LEVEL adjustment should be completed before this adjustment.

- Set the AGC SW to OFF side.
- Place the unit in recording or stop mode with the colour bar signal.
- Connect video out to the oscilloscope with a 75ohm termination.
- Adjust VR3004 so that the Y level becomes 1.0 ± 0.05 Vp-p.
- Set the AGC SW to ON side when completed this adjustment.

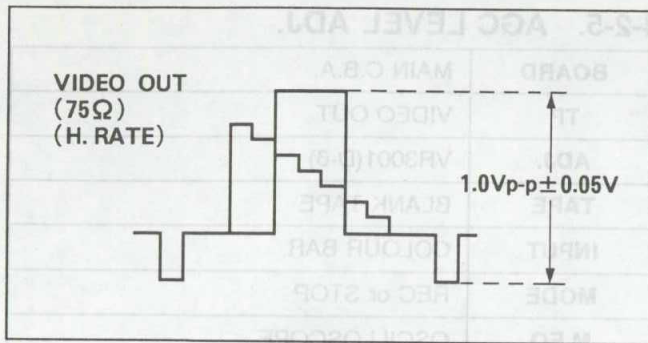


Fig. E3

4-2-7. YNR BALANCE ADJ.

BOARD	MAIN C.B.A.
TP	TP3004(F-4)
ADJ.	VR3501(C-7)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC
M.EQ	OSCILLOSCOPE
SPEC.	A=LESS THAN 50mVp-p

- Place the unit in recording mode with colour bar signal.
- Connect TP3004 to the oscilloscope.
- Adjust VR3501 so that the white portion becomes minimum as much as possible.

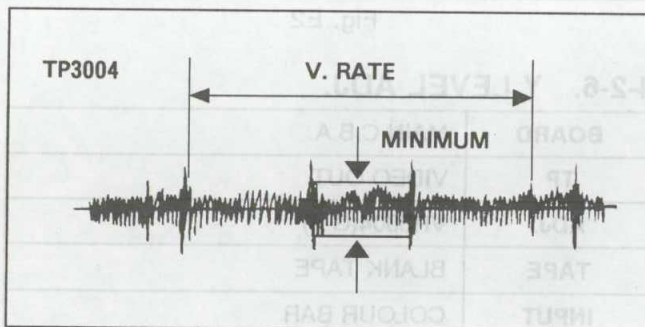


Fig. E4

4-2-8. VIDEO RECORDING CURRENT ADJ.

BOARD	MAIN C.B.A.
TP	TP507,TP508(HEAD AMP)
ADJ.	Y:VR3505(D-3),C:VR3504(E-3)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC
M.EQ	OSCILLOSCOPE
SPEC.	Y=140±5mVp-p, C=32±2mVp-p

Note: The oscilloscope probe should be use under 5 feet longer cable and set 10:1.

- Place the unit in recording(3H) mode with colour bar signal.
- Connect the oscilloscope between TP507(HOT) and TP508(GND) on the HEAD AMP C.B.A.
- Turn the VR3505 fully clockwise from foil side.
- Adjust VR3504 so that the cyan level becomes 32 ± 2 mVp-p and adjust VR3505 so that the sync level becomes 140 ± 5 mVp-p.

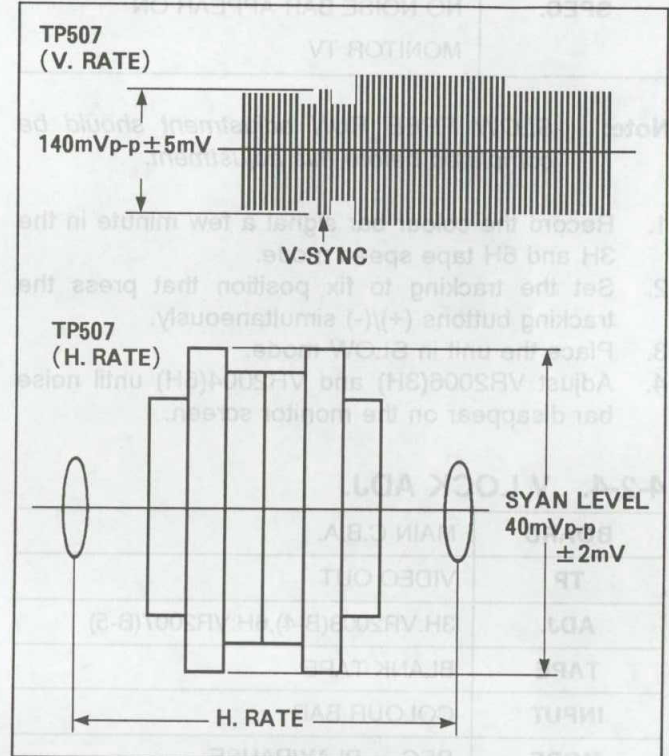


Fig. E5

4-2-9. CNR ADJ.

BOARD	MAIN C.B.A.
TP	TP3002(F-6)
ADJ.	VR3002(G-5),VR3007(G-6)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	A=LESS THAN 700mVp-p

Note: YNR BALANCE adjustment should be completed before this adjustment.

- Record the colour bar signal a few minute and playback the just recorded portion.
- Connect TP3002 to the oscilloscope.
- Adjust VR3002 and VR3007 mutually so that chrome components becomes minimum as much as possible.

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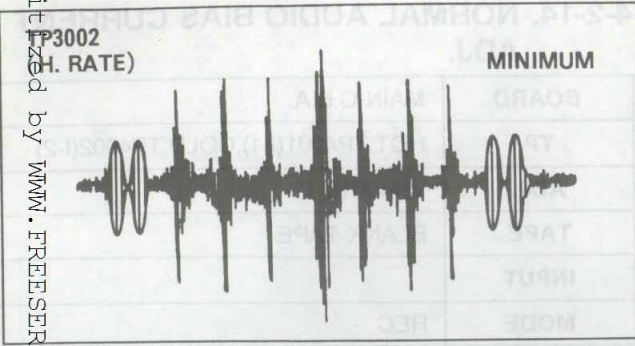


Fig. E6

4-2-11. PB EQUALIZER ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	3H:VR3503(F-3),6H:VR3506(F-4)
TAPE	BLANK TAPE
INPUT	30% VIDEO SWEEP (W/O:Burst)
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	100K : 2MHz=5 : 5.0±0.5

4-2-10. VIDEO PLAYBACK LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	VIDEO OUT
ADJ.	Y:VR3005(E-4),C:VR3502(D-8)
TAPE	BLANK TAPE
INPUT	COLOUR BAR
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	Y=1.0±0.05Vp-p, C=0.6±0.03Vp-p

Note: CNR adjustment should be completed before this adjustment.

1. Connect video out to the oscilloscope with a 75ohm termination.
2. Record the colour bar signal a few minute and playback just recorded portion.
3. Adjust VR3005 so that the Y level becomes $1.0 \pm 0.05Vp-p$.
4. Adjust VR3502 so that the cyan level becomes $0.6 \pm 0.03Vp-p$.

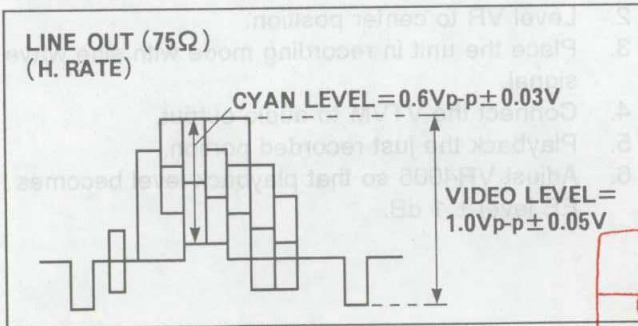
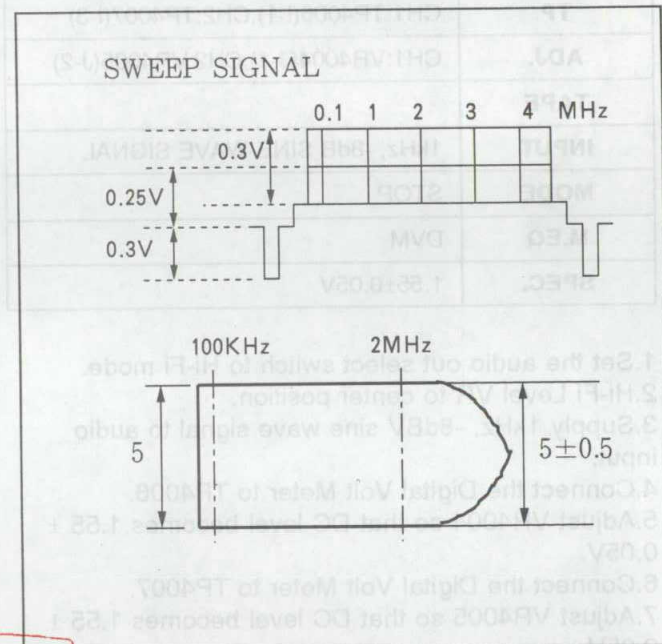


Fig. E7

1. Connect video out to the oscilloscope.
2. Record the 30% video sweep signal a few minute in the 3H and 6H tape speed mode.
3. Playback just recored portion.(Vary the vertical scope setting until the 100KHz level reaches 5 divisions)
4. Adjust VR3503 so that the 3H level becomes as shown in Fig.E8 at 3H recorded portion.
5. Adjust VR3506 so that the 6H level becomes as shown in Fig.E8 at 6H recorded portion.



Free service manuals
Gratis schema Fig.E8

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4-2-12.AUDIO E-E LEVEL ADJ.

BOARD	MAIN C.B.A.
TP	AUDIO OUTPUT
ADJ.	CH1:VR4002(I-3),CH2:VR4003(I-4)
TAPE	
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	STOP
M.EQ	VTVM
SPEC.	OUTPUT LEVEL = $-8 \pm 0.5\text{dBV}$

- 1.Set the audio out select switch to Hi-Fi mode.
- 2.Hi-Fi Level VR to center position.
- 3.Supply sin wave signal to audio input.
- 4.Connect the VTVM to audio output.
- 5.Adjust VR4002 so that the audio output level becomes $-8 \pm 0.5\text{dBv}$.
- 6.Adjust VR4003 so that the audio output level becomes $-8 \pm 0.5\text{dBv}$.

4-2-13.AUDIO LEVEL METER ADJ.

BOARD	MAIN C.B.A.
TP	CH1:TP4006(I-1),CH2:TP4007(I-3)
ADJ.	CH1:VR4004(J-1),CH2:VR4005(J-2)
TAPE	
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	STOP
M.EQ	DVM
SPEC.	$1.55 \pm 0.05\text{V}$

- 1.Set the audio out select switch to Hi-Fi mode.
- 2.Hi-Fi Level VR to center position.
- 3.Supply 1kHz, -8dBV sine wave signal to audio input.
- 4.Connect the Digital Volt Meter to TP4006.
- 5.Adjust VR4004 so that DC level becomes $1.55 \pm 0.05\text{V}$.
- 6.Connect the Digital Volt Meter to TP4007.
- 7.Adjust VR4005 so that DC level becomes $1.55 \pm 0.05\text{V}$.
- 8.Confirm display light "+2dB" to "-5dB" when set the audio select SW to L → R → NORMAL mode.
Also, Level Meter difference between CH1 and CH2 within 1 segment on the display.

4-2-14. NORMAL AUDIO BIAS CURRENT ADJ.

BOARD	MAIN C.B.A.
TP	HOT:TP4001(I-1),COLD:TP4002(I-2)
ADJ.	VR4001(I-1)
TAPE	BLANK TAPE
INPUT	
MODE	REC
M.EQ	VTVM
SPEC.	$3.0 \pm 0.1\text{mVrms}$

1. Place the unit in recording mode without audio signal.
2. Connect the VTVM to TP4001(HOT) and TP4002(GND).
3. Adjust VR4001 so that level becomes $3.0 \pm 0.1\text{mVrms}$.

4-2-15. NORMAL AUDIO PLAYBACK GAIN ADJ.

BOARD	MAIN C.B.A.
TP	AUDIO OUT
ADJ.	VR4006(I-2)
TAPE	BLANK TAPE
INPUT	1kHz, -8dB SINE WAVE SIGNAL
MODE	REC → PLAY
M.EQ	VTVM
SPEC.	$EE \pm 1\text{dB}$

1. Set the audio out select switch to Normal mode.
2. Level VR to center position.
3. Place the unit in recording mode with sine wave signal.
4. Connect the VTVM to audio output.
5. Playback the just recorded portion.
6. Adjust VR4006 so that playback level becomes EE level $\pm 1\text{dB}$.

4-2-16. FM AUDIO CARRIER FREQUENCY ADJ.

BOARD	AUDIO C.B.A.
TP	TP4004(H-3)
ADJ.	CH1:VR4501(E-1),CH2:VR4505(D-2)
TAPE	
INPUT	NO SIGNAL
MODE	STOP
M.EQ	SPECTRUM ANALYZER
SPEC.	fL=1.4MHz±10KHz fR=1.8MHz±10KHz

- Ground the Audio inputs (CH1 & CH2)
- Connect the spectrum analyzer to TP4004 on MAIN C.B.A.
- Adjust VR4501 so that the frequency of spectrum analyzer becomes 1.4MHz ± 10KHz.
- Adjust VR4502 so that the frequency of spectrum analyzer becomes 1.8MHz ± 10KHz.

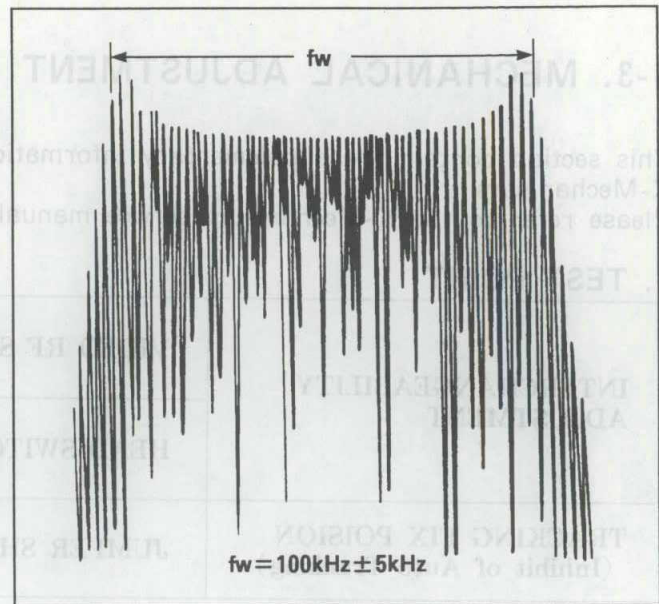


Fig. E9

4-2-17. FM AUDIO DEVIATION ADJ.

BOARD	AUDIO C.B.A.
TP	TP4004(H-3)
ADJ.	CH1:VR4502(E-2),CH2:VR4504(C-3)
TAPE	BLANK TAPE
INPUT	1KHz, -8dB SINE WAVE SIGNAL
MODE	REC
M.EQ	SPECTRUM ANALYZER
SPEC.	fW=100 ± 5 kHz

<Set up>

Hi-Fi LEVEL VR: Center position

Spectrum analyzer: SCAN TIME:10ms/div
BAND WIDTH:10kHz
DISPERSION:20kHz/div

- Supply a 1kHz sine wave signal to the Audio input.
- Connect the spectrum analyzer to TP4004 on MAIN C.B.A. and set the center frequency to 1.4MHz.
- Adjust VR4502 so that the width of the fW portion becomes 100 ± 5kHz.
- Set the center frequency to 1.8MHz.
- Adjust VR4504 so that the width of the fW portion becomes 100 ± 5 kHz.

4-2-18. FM AUDIO BPF ADJ.

BOARD	AUDIO C.B.A.
TP	TP4005(I-3)
ADJ.	VR4503(D-2)
TAPE	BLANK TAPE
INPUT	
MODE	REC → PLAY
M.EQ	OSCILLOSCOPE
SPEC.	ENVELOPE LEVEL: MAXIMUM

- Connect the oscilloscope to TP4005 on MAIN C.B.A.
- Place the unit in recording mode without audio signal.
- Playback just recorded portion.
- Adjust VR4503 so that the envelope level becomes maximum as much as possible.

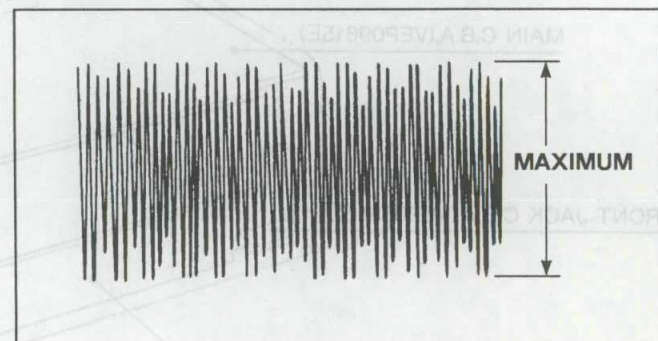


Fig.E10

4-3. MECHANICAL ADJUSTMENT INFORMATION

This section contain the supplementary information of Mechanical Adjustment Procedure for K-Mechanism.
Please refer to the K-Mechanism service manual (Order No. VSD9402M632) .

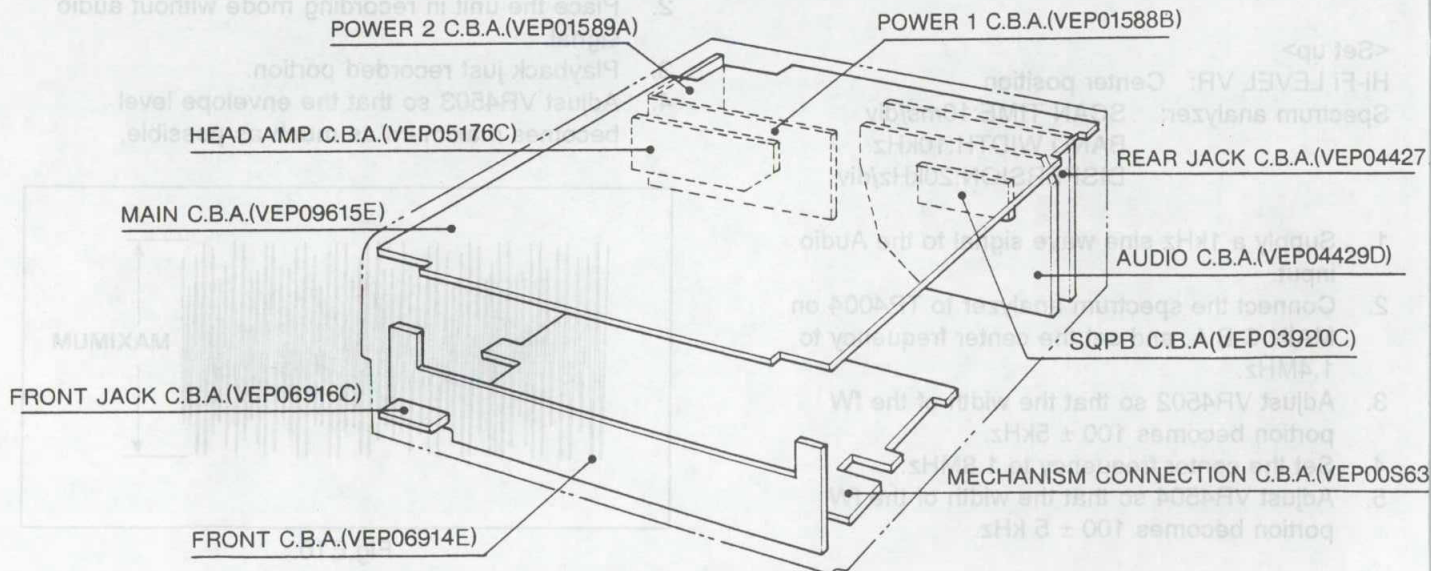
1. TEST POINT

INTERCHANGEABILITY ADJUSTMENT	VIDEO RF SIGNAL	TP507,TP508 (GND) HEAD AMP C.B.A.
	HEAD SWITCHING PULSE	TP3502 MAIN C.B.A.
TRACKING FIX POISON (Inhibit of Auto Tracking)	JUMPER SHORT	TP6002 and TP6003 MAIN C.B.A.

2. SPECIFICATION

3-8. BACK TENSION	22.5 ~ 27.5 g
3-11. FG GAP	0.15 ± 0.04mm
3-12. PINCH PRESSING FORCE	1140 ± 250 g

CIRCUIT BOARD LAYOUT



BLOCK DIAGRAMS SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

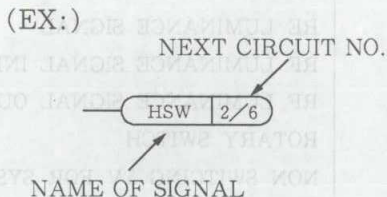
NOTE : How to read the Schmatic diagram.

- MIJISSO ⇒ No circuits construct for AG-5260.
- D184 ONLY ⇒ AG-5260 used this circuits.
- D182,D184,D187 ONLY ⇒ AG-5260 used this circuits.
- D182 ONLY ⇒ No circuits construct for AG-5260.
- D183 ONLY ⇒ No circuits construct for AG-5260.
- D187 ONLY ⇒ No circuits construct for AG-5260.
- * mark ⇒ Parts value, see table in the schematic diagram.

(EX:)

	D184	
R2018	10K	10KΩ
R2019	-----	No part

D184 or PAL(E)
AG-5260 used this circuits.



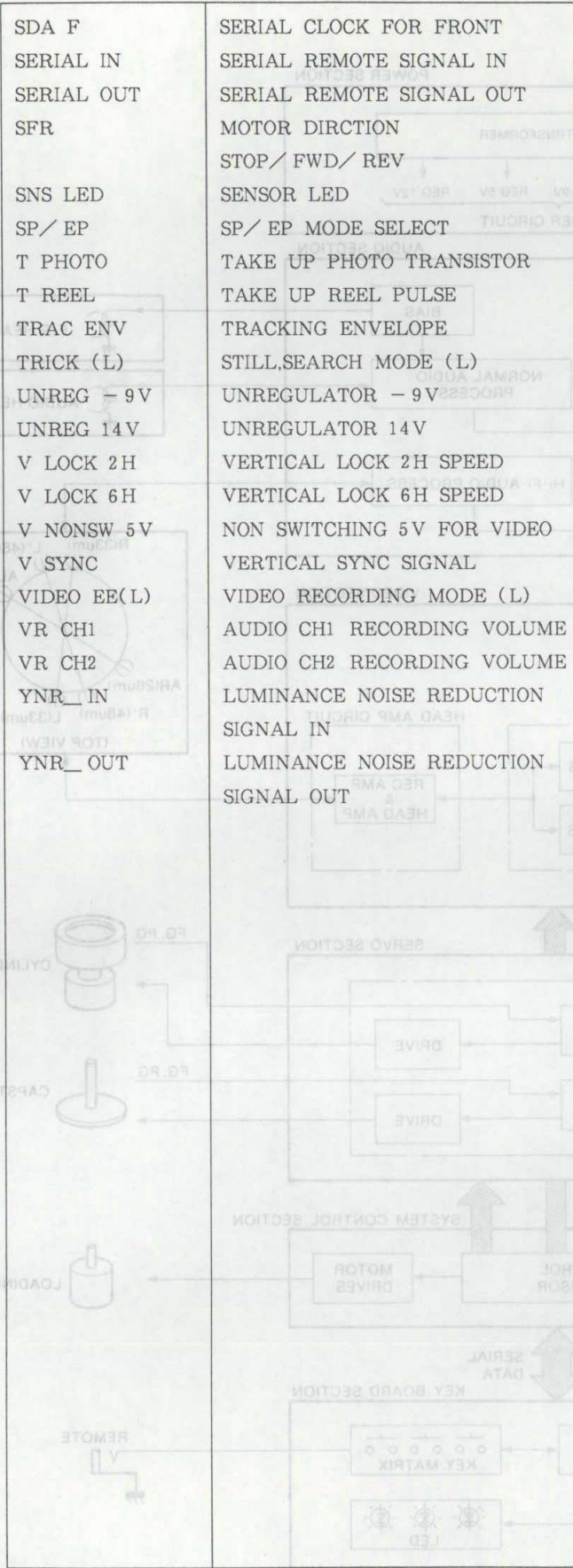
TITLE OF CIRCUIT	CIRCUIT NO.
SYSCON/SERVO	1/6
MOTOR DRIVE	2/6
INTERFACE	3/6
VIDEO 1 (Y)	4/6
VIDEO 2 (C)	5/6
AUDIO (MAIN)	6/6

NOTE : Do not use the part number shown on this drawing for ordering.
The correct part number is shown in the parts list, and may be slightly different or amended since this drawing was prepared.

5-1. ABBREVIATIONS

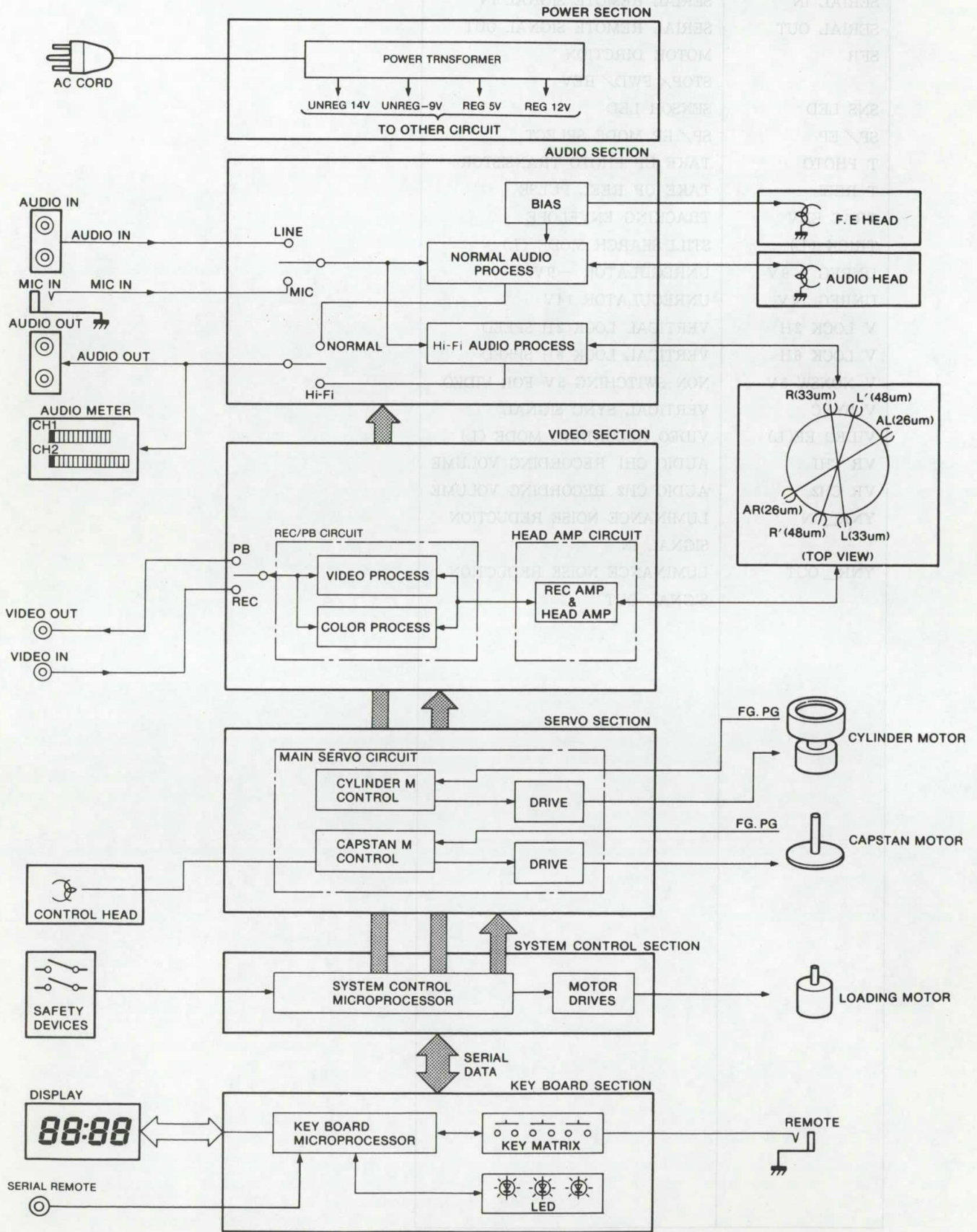
A MODE SEL	AUDIO MODE SELECT	FLY E	FLYING ERASE
A.DUB.P(L)	AUDIO DUBBING PAUSE (L)	FM MUTE(H)	FM AUDIO MUTE (H)
A.E.HEAD	AUDIO ERASE HEAD	H_A_SW	HEAD AMP SWITCHING PULSE
A.HEAD(R)	AUDIO HEAD (REC)	H_METER_RST	HOOR METER RESET
A.HEAD(W)	AUDIO HEAD (PLAY)	HIFI REC(L)	FM AUDIO RECORDING(L)
A_HSW	AUDIO HEAD SWITCHING PULSE	HSS	HORIZONTAL SYNC SIGNAL
AE	AUDIO ERASE	HSW	HEAD SWITCHING PULSE
AGC	AUTO GAIN CONTROL	L(EP)	VIDEO L- CH FOR EP MODE
AGC ON(H)	AUTO GAIN CONTROL ON (H)	L(SP)	VIDEO L- CH FOR SP MODE
AL(AUDIO)	AUDIO L-CH SIGNAL	LOADING M(+)	LOADING MOTOR (+)
ANALOG REM IN	ANALOG REMOTE SIGNAL IN	LOADING M(-)	LOADING MOTOR (-)
ANALOG_IN	ANALOG REMOTE SIGNAL IN	M GND	MOTOR GND
AR(AUDIO)	AUDIO R-CH SIGNAL	METER_CH1	AUDIO METER CH1
ART_V	ARTIFICAL VERTICAL SYNC SIGNAL	METER_CH2	AUDIO METER CH2
AUDIO EE(H)	AUDIO EE MODE (H)	MIC GND	MICROPHONE GND
AUTO OFF OUT	AUTO OFF SIGNAL OUT	MIC IN	MICROPHONE SIGNAL INPUT
BACK SYS 5V	BACK UP 5V FOR SYSTEM CONTROL CIRCUIT	MIC(H)	MICROPHONE SIGANL REC (H)
BACK UP 5V	BACK UP 5V DC	MIX OUT	AUDIO CH1/CH2 SIGNAL MIX OUTPUT
BIAS	AUDIO BIAS SIGNAL	NOR REC(L)	NORMAL AUDIO RECORDING(L)
CAP ET	CAPSTAN ERROR TORQUE CONTROL	PB LEVEL	PLAYBACK SIGNAL LEVEL
CAP FG1	CAPSTAN FG1 PULSE	PB SIGNAL	PLAYBACK VIDEO SIGNAL
CAP FG2	CAPSTAN FG2 PULSE	PFG	PG/FG
CAP RSF	CAPSTAN REV/STOP/FWD	POS SW1~3	MECHANISUM POSITION SWITCH
CAP VM	CAPSTAN DRIVE VOLTAGE	POWER OFF(L)	AC POWER OFF (L)
COR	CORREATION SIGNAL	R(EP)	VIDEO R- CH FOR EP MODE
CTL OUT	CONTROL SIGNAL OUT	R(SP)	VIDEO R- CH FOR SP MODE
CTL(+)	CONTROL HEAD (+)	REC GATE(L)	RECORDING GATE (L)
CTL(-)	CONTROL HEAD (-)	REC_C	RECORDING CHROMINANCE SIGNAL
CUL	CAPSTAN SPEED CONTROL SIGNAL (H,M,High Impedance)	REC_Y	RECORDING LUMINANCE SIGNAL
CYL ET	CYLINDER ERROR TORQUE CONTROL	REC(H)	RECORDING (H)
CYL PFG	CYLINDER PG/FG PULSE	REEL + B	REEL PHOTE SENSOR DC
D FM REC (L)	DELAIED FM REOCRDRING (L)	RF_C	RF CHROMINANCE SIGNAL
D REC (H)	DELAIED RECORDING (H)	RF_OUT	RF SIGNAL OUT
DEW SENSE	DEW SENSOR	RF_Y	RE LUMINANCE SIGNAL
E_REC_5V	EXCEPT RECORDING 5V	RF_Y_IN	RF LUMINANCE SIGNAL INPUT
EDIT_ON(H)	EDIT ON (H)	RE_Y_OUT	RF LUMINANCE SIGNAL OUTPUT
EE(H)	RECORDING (H)	ROTARY SW	ROTARY SWITCH
ENV_SEL	RF ENVELOPE SELECT	S NONSW 5V	NON SWITCHING 5V FOR SYSTEM CONTROL CIRCUIT
ENVE.OUT	RF ENVELOPE SIGNAL OUT	S PHOTO	SUPPLY REEL PHOTO SENSOR
FE(1)	FULL ERASE(1)	S REEL	SYPPLY REEL PULSE
FE(2)	FULL ERASE(2)	S TAB SW	SAFETY TAB SWITCH
		S VHS(H)	SVHS SIGNAL/DETECT (H)
		SCK F	SERIAL CLOCK FOR FRONT

OVER ALL BLOCK DIAGRAM



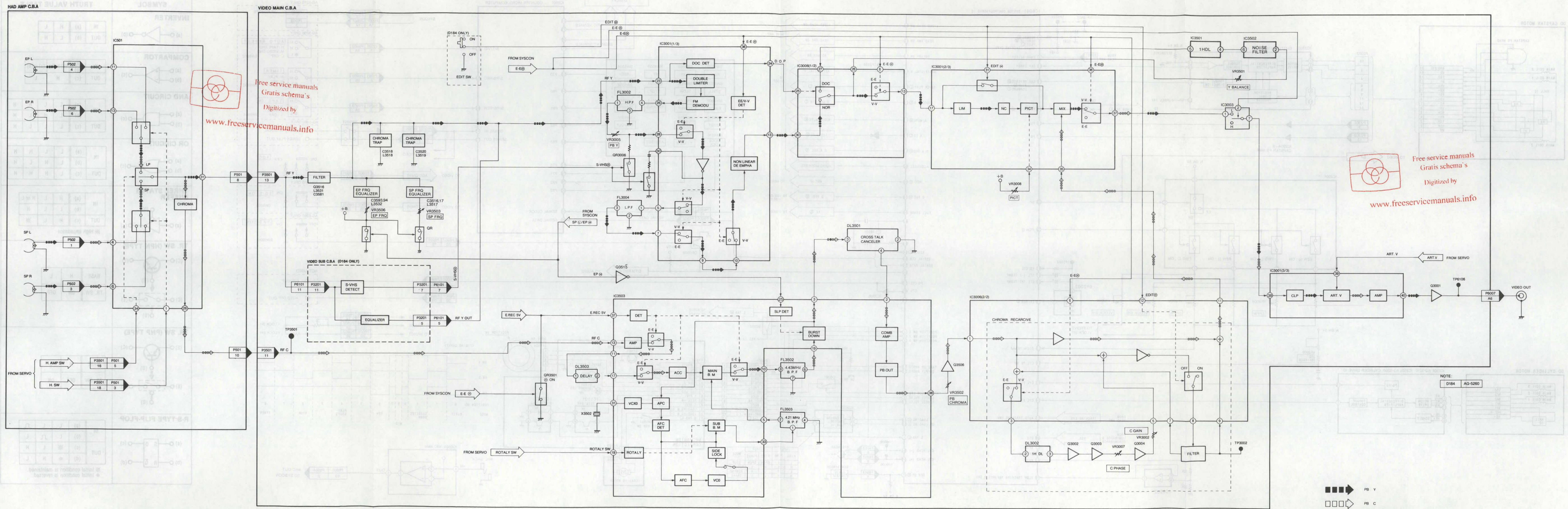
SDA F	SERIAL CLOCK FOR FRONT
SERIAL IN	SERIAL REMOTE SIGNAL IN
SERIAL OUT	SERIAL REMOTE SIGNAL OUT
SFR	MOTOR DIRCTION
	STOP/ FWD/ REV
SNS LED	SENSOR LED
SP/ EP	SP/ EP MODE SELECT
T PHOTO	TAKE UP PHOTO TRANSISTOR
T REEL	TAKE UP REEL PULSE
TRAC ENV	TRACKING ENVELOPE
TRICK (L)	STILL,SEARCH MODE (L)
UNREG - 9V	UNREGULATOR - 9V
UNREG 14V	UNREGULATOR 14V
V LOCK 2H	VERTICAL LOCK 2H SPEED
V LOCK 6H	VERTICAL LOCK 6H SPEED
V NONSW 5V	NON SWITCHING 5V FOR VIDEO
V SYNC	VERTICAL SYNC SIGNAL
VIDEO EE(L)	VIDEO RECORDING MODE (L)
VR CH1	AUDIO CH1 RECORDING VOLUME
VR CH2	AUDIO CH2 RECORDING VOLUME
YNR_IN	LUMINANCE NOISE REDUCTION
	SIGNAL IN
YNR_OUT	LUMINANCE NOISE REDUCTION
	SIGNAL OUT

OVER ALL BLOCK DIAGRAM



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5-4. VIDEO(PLAY) BLOCK DIAGRAM

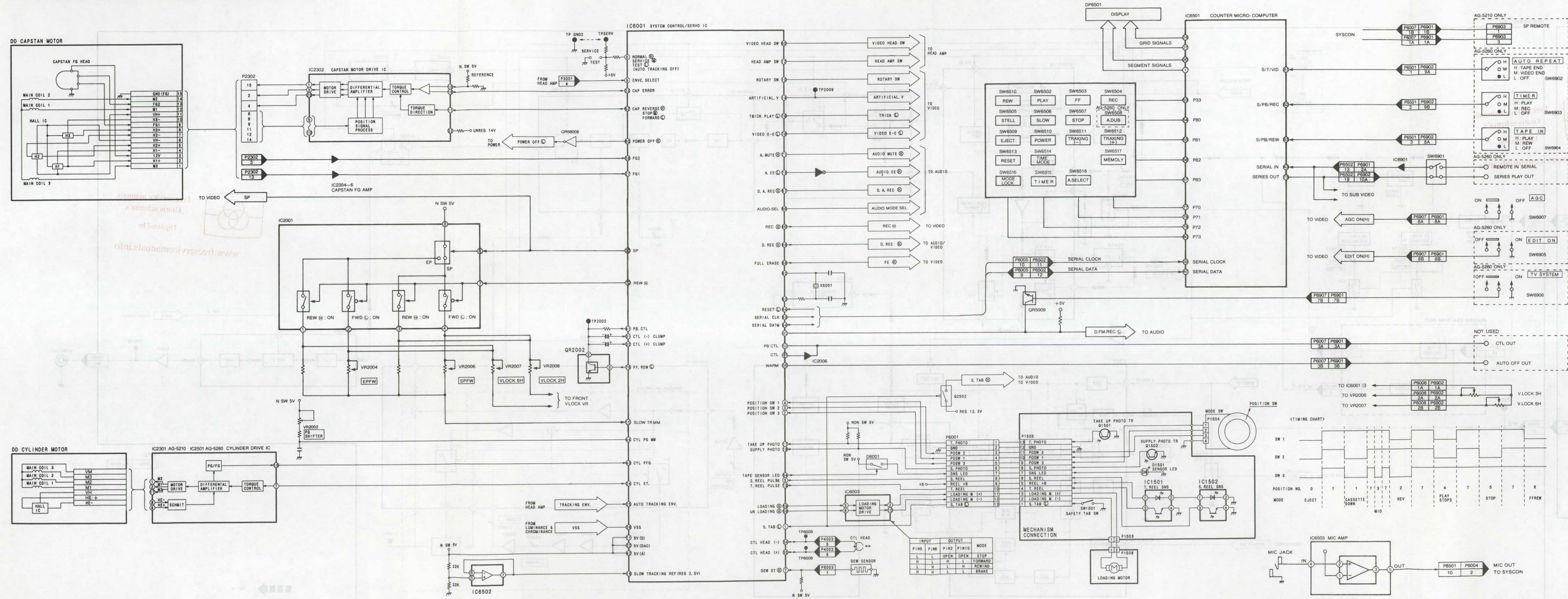


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▣▣▣▣ → PB Y
 □□□□ → PB C

5-3. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

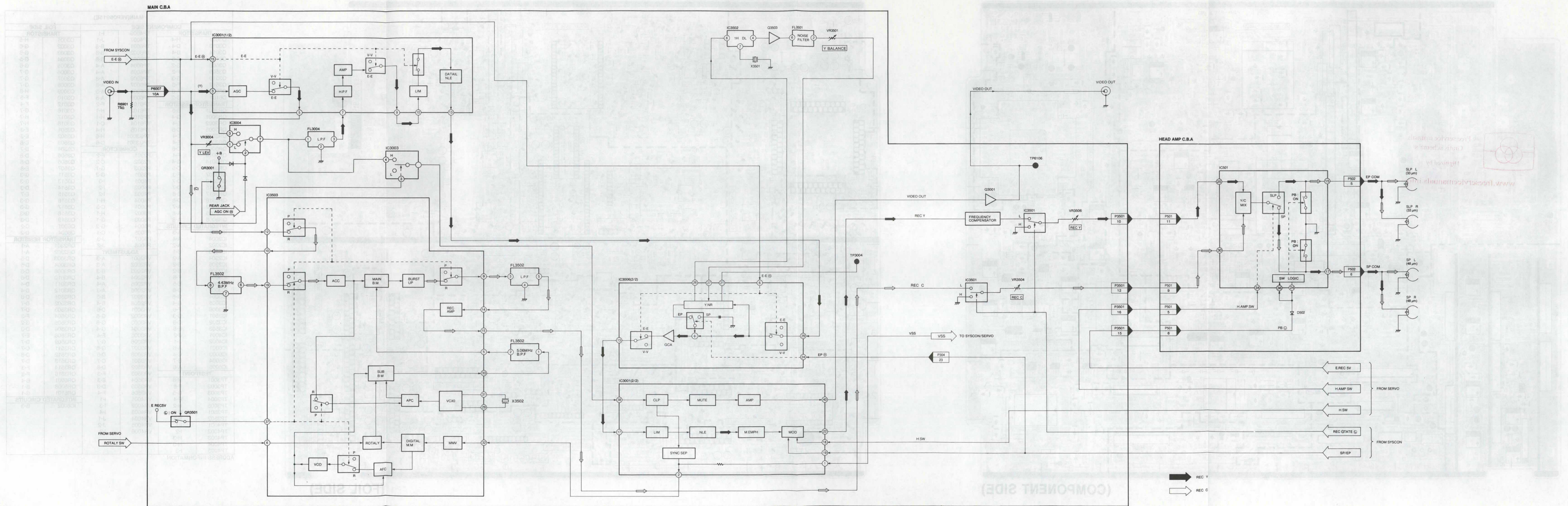


5-4. VIDEO(PLAY) BLOCK DIAGRAM

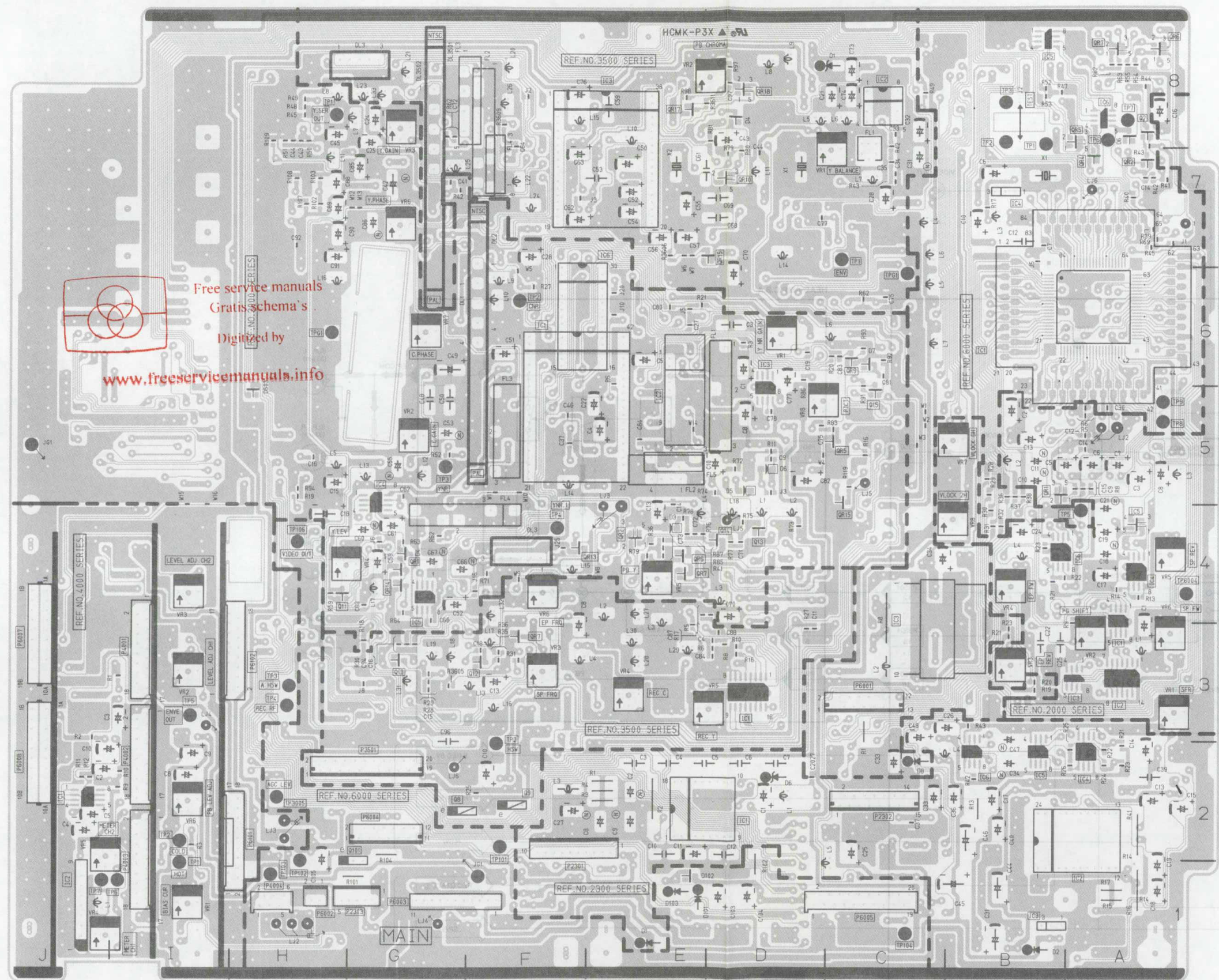
SYMBOL	TRUTH VALUE TABLE																
INVERTER (a)	<table border="1"> <tr> <td>IN (a)</td> <td>H</td> <td>L</td> </tr> <tr> <td>OUT (b)</td> <td>L</td> <td>H</td> </tr> </table>	IN (a)	H	L	OUT (b)	L	H										
IN (a)	H	L															
OUT (b)	L	H															
COMPARATOR (a)	<table border="1"> <tr> <td>IN (a)</td> <td>(a) > (b)</td> <td>(a) < (b)</td> </tr> <tr> <td>OUT (c)</td> <td>H</td> <td>L</td> </tr> </table>	IN (a)	(a) > (b)	(a) < (b)	OUT (c)	H	L										
IN (a)	(a) > (b)	(a) < (b)															
OUT (c)	H	L															
AND CIRCUIT (a)	<table border="1"> <tr> <td>IN (a)</td> <td>L</td> <td>L</td> <td>H</td> <td>H</td> </tr> <tr> <td>(b)</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> </tr> <tr> <td>OUT (c)</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> </tr> </table>	IN (a)	L	L	H	H	(b)	L	H	L	H	OUT (c)	L	L	L	H	
IN (a)	L	L	H	H													
(b)	L	H	L	H													
OUT (c)	L	L	L	H													
OR CIRCUIT (a)	<table border="1"> <tr> <td>IN (a)</td> <td>L</td> <td>L</td> <td>H</td> <td>H</td> </tr> <tr> <td>(b)</td> <td>L</td> <td>H</td> <td>L</td> <td>H</td> </tr> <tr> <td>OUT (c)</td> <td>L</td> <td>H</td> <td>H</td> <td>H</td> </tr> </table>	IN (a)	L	L	H	H	(b)	L	H	L	H	OUT (c)	L	H	H	H	
IN (a)	L	L	H	H													
(b)	L	H	L	H													
OUT (c)	L	H	H	H													
THREE STATES BUFFER (a)	<table border="1"> <tr> <td>IN (a)</td> <td>H</td> <td>L</td> <td>H or L</td> </tr> <tr> <td>(b)</td> <td>L</td> <td>L</td> <td>H</td> </tr> <tr> <td>OUT (c)</td> <td>H</td> <td>L</td> <td>*</td> </tr> </table> <p>* High Impedance</p>	IN (a)	H	L	H or L	(b)	L	L	H	OUT (c)	H	L	*				
IN (a)	H	L	H or L														
(b)	L	L	H														
OUT (c)	H	L	*														
TR. SW (NPN TYPE) (C)	<table border="1"> <tr> <td>BASE</td> <td>H</td> <td>L</td> </tr> <tr> <td>TR. SW</td> <td>ON</td> <td>OFF</td> </tr> </table>	BASE	H	L	TR. SW	ON	OFF										
BASE	H	L															
TR. SW	ON	OFF															
TR. SW (PNP TYPE) (E)	<table border="1"> <tr> <td>BASE</td> <td>H</td> <td>L</td> </tr> <tr> <td>TR. SW</td> <td>OFF</td> <td>ON</td> </tr> </table>	BASE	H	L	TR. SW	OFF	ON										
BASE	H	L															
TR. SW	OFF	ON															
R-S TYPE FLIP-FLOP (a)	<table border="1"> <tr> <td>IN (a)</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>(b)</td> <td>L</td> <td>L</td> <td>L</td> </tr> <tr> <td>OUT (c)</td> <td>*</td> <td>L</td> <td>H</td> </tr> <tr> <td>(d)</td> <td>♦</td> <td>H</td> <td>L</td> </tr> </table> <p>* Initial condition is maintained. ♦ Initial condition is reversed.</p>	IN (a)	L	L	L	(b)	L	L	L	OUT (c)	*	L	H	(d)	♦	H	L
IN (a)	L	L	L														
(b)	L	L	L														
OUT (c)	*	L	H														
(d)	♦	H	L														

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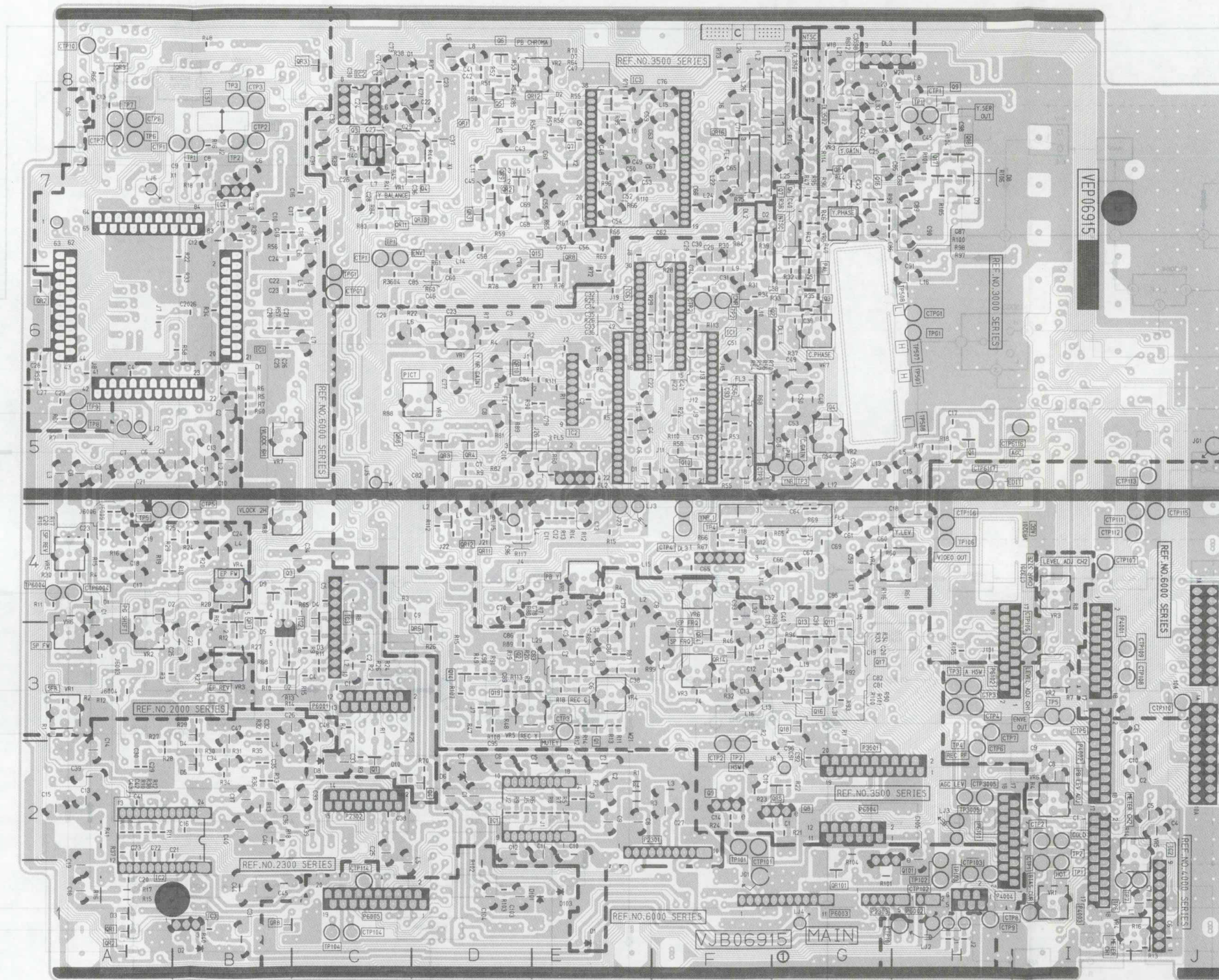
5-5. VIDEO(REC) BLOCK DIAGRAM



6-1. MAIN C.B.A. (VEP06915E)



(COMPONENT SIDE)



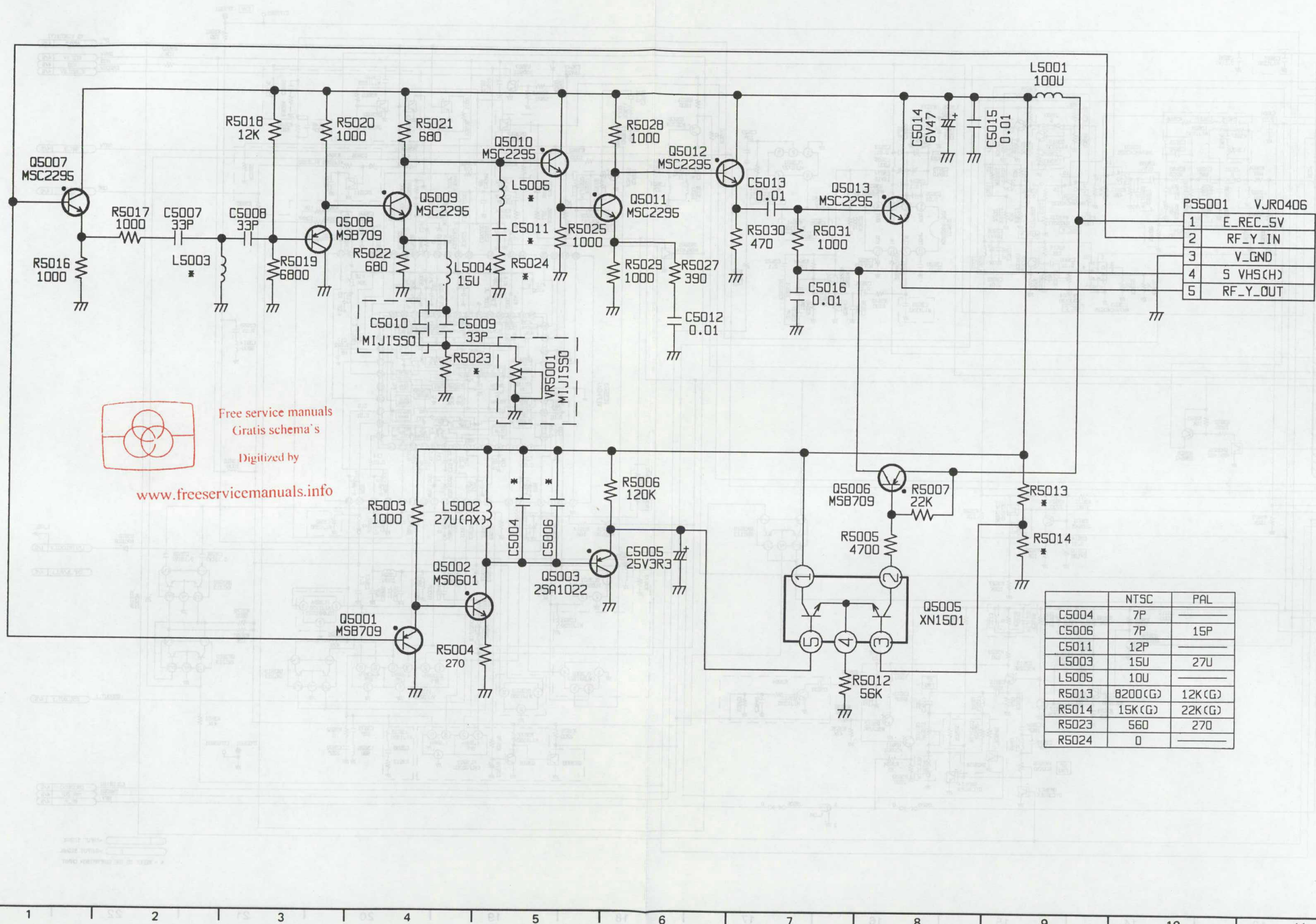
(FOIL SIDE)

MAIN(VEP06915E)			
COMPONENT SIDE		FOIL SIDE	
TRANSISTOR			TRANSISTOR
Q3011	H-4	TP4006	I-1
Q3013	D-4	TP6001	B-8
Q3014	D-4	TP6002	B-8
Q3015	D-5	TP6003	B-8
Q3508	G-2	TP6004	A-4
Q3509	F-2	TP6005	A-4
Q3510	G-3	TP6006	A-8
Q3512	F-3	TP6007	A-8
Q6002	A-8	TP6008	A-5
Q6101	G-2	TP6009	F-2
TRANSISTOR RESISTOR			
QR2001	B-5	TP6101	F-2
QR3001	G-4	TP6102	H-1
QR3002	E-4	TP6103	H-1
QR3005	C-5	TP6104	C-1
QR3006	E-4	TP6106	H-4
QR3007	E-4	TPG3001	H-6
QR3009	C-6	TPG3501	C-6
QR3013	F-4		
QR3014	G-4		
QR3015	C-5		
QR3507	F-3		
QR3510	D-7		
QR3515	D-7		
QR3517	E-8		
QR3518	D-8		
QR6002	A-7		
QR6005	A-8		
QR6006	A-8		
CONNECTOR			
P2301	F-2		
P2302	C-2		
P2303	G-1		
P3501	G-2		
P4001	I-3		
P4002	I-2		
P4003	I-2		
P4004	H-1		
P6001	C-3		
P6002	H-1		
P6003	G-1		
P6004	G-2		
P6005	C-1		
P6007	J-3		
P6008	J-2		
INTEGRATED CIRCUITS			
IC2001	A-3		
IC2004	A-4		
IC2302	A-2		
IC2303	B-1		
IC2304	A-2		
IC2305	B-2		
IC2306	B-2		
IC3001	F-6		
IC3002	E-5		
IC3003	D-6		
IC3004	G-5		
IC3005	G-4		
IC3006	F-7		
IC3501	D-3		
IC3502	C-8		
IC3503	C-8		
IC4001	J-2		
IC4002	J-1		
IC6001	A-6		
IC6003	C-4		
IC6004	B-7		
IC6006	A-8		
ADJUSTMENT			
VR2001	A-3		
VR2002	A-3		
VR2003	B-3		
VR2004	B-4		
VR2005	A-4		
VR2006	A-3		
VR2007	B-5		
VR2008	G-4		
VR3001	D-6		
VR3002	G-5		
VR3003	G-8		
VR3004	E-4		
VR3005	E-4		
VR3006	G-7		
VR3007	G-6		
VR3008	D-5		
VR3501	C-7		
VR3502	D-8		
VR3503	F-3		
VR3504	E-3		
VR3505	D-3		
VR3506	F-4		
VR4001	I-1		
VR4002	I-3		
VR4003	I-4		
VR4004	J-1		
VR4005	J-2		
VR4006	I-2		
TESTPOINT			
TP3001	H-8		
TP3002	F-6		
TP3003	G-5		
TP3004	F-4		
TP3005	H-2		
TP3501	C-7		
TP3502	F-3		
TP4001	I-1		
TP4002	I-2		
TP4003	H-3		
TP4004	H-3		
TP4005	I-3		
INTEGRATED CIRCUITS			
IC6002	B-3		
TRANSISTOR RESISTOR			
QR2301	A-1		
QR2302	A-1		
QR3003	D-5		
QR3004	D-5		
QR3008	C-5		
QR3010	D-6		
QR3011	D-4		
QR3012	D-4		
QR3501	D-8		
QR3502	D-7		
QR3503	D-7		
QR3504	F-3		
QR3505	G-2		
QR3506	D-3		
QR3508	E-7		
QR3509	D-7		
QR3511	D-8		
QR3512	D-8		
QR3513	D-7		
QR3514	F-3		
QR3516	F-8		
QR6001	B-4		
QR6008	G-1		
QR6101	B-1		
ADDRESS INFORMATION			

ADDRESS INFORMATION

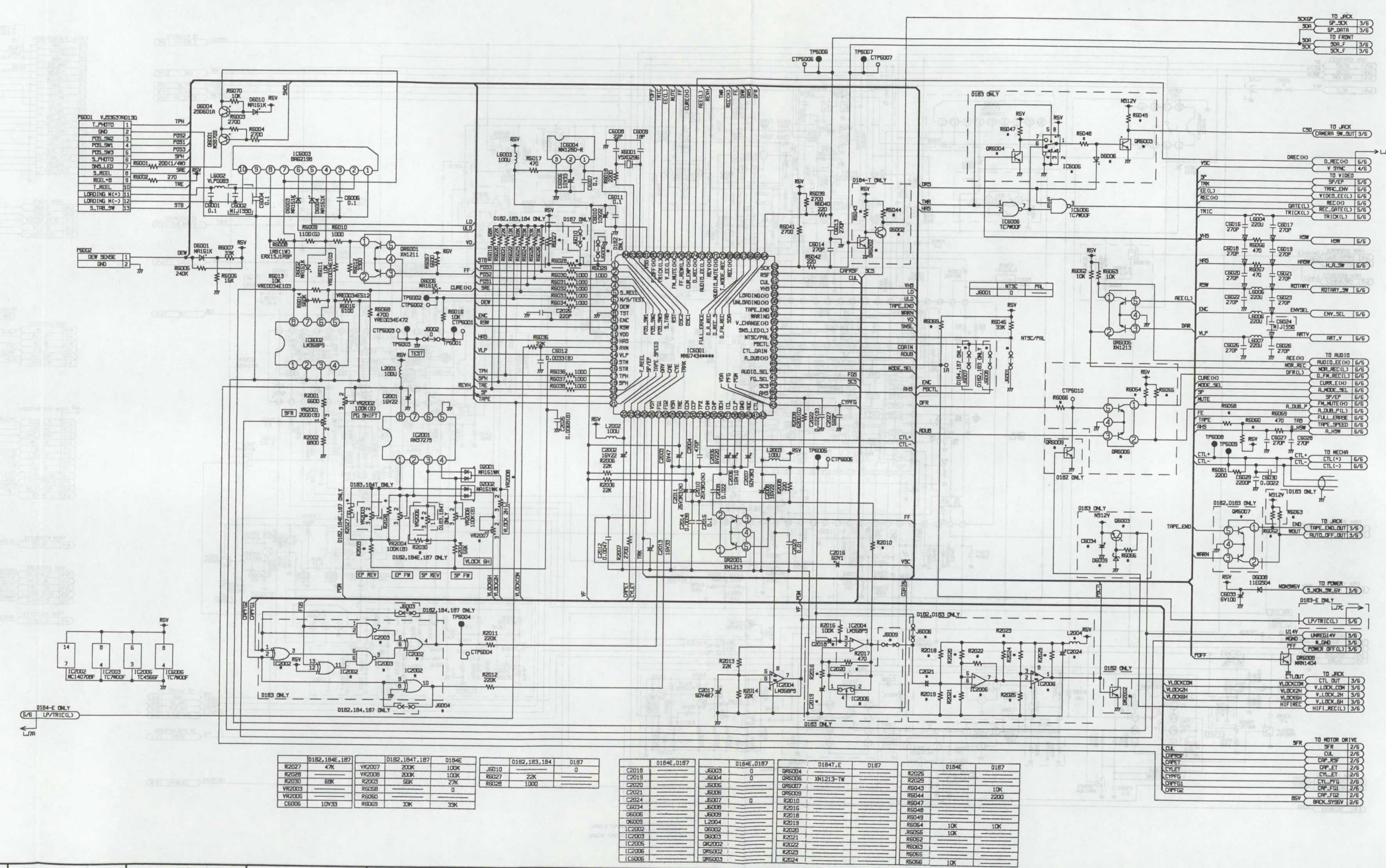
8-5. VIDEO(REC) BLOCK DIAGRAM

6-4. S-VHS PB PACK SCHEMATIC DIAGRAM

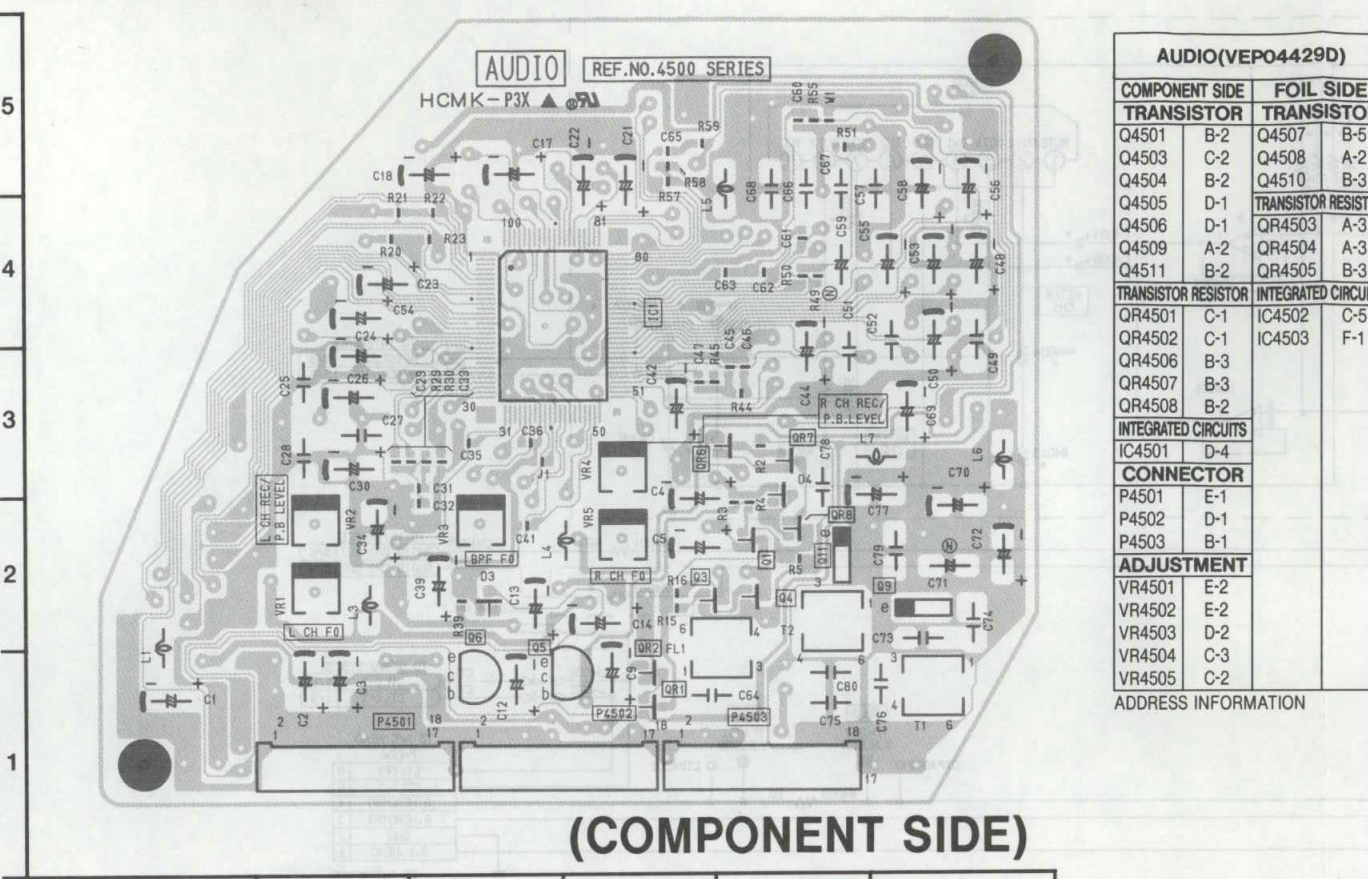


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6-5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM

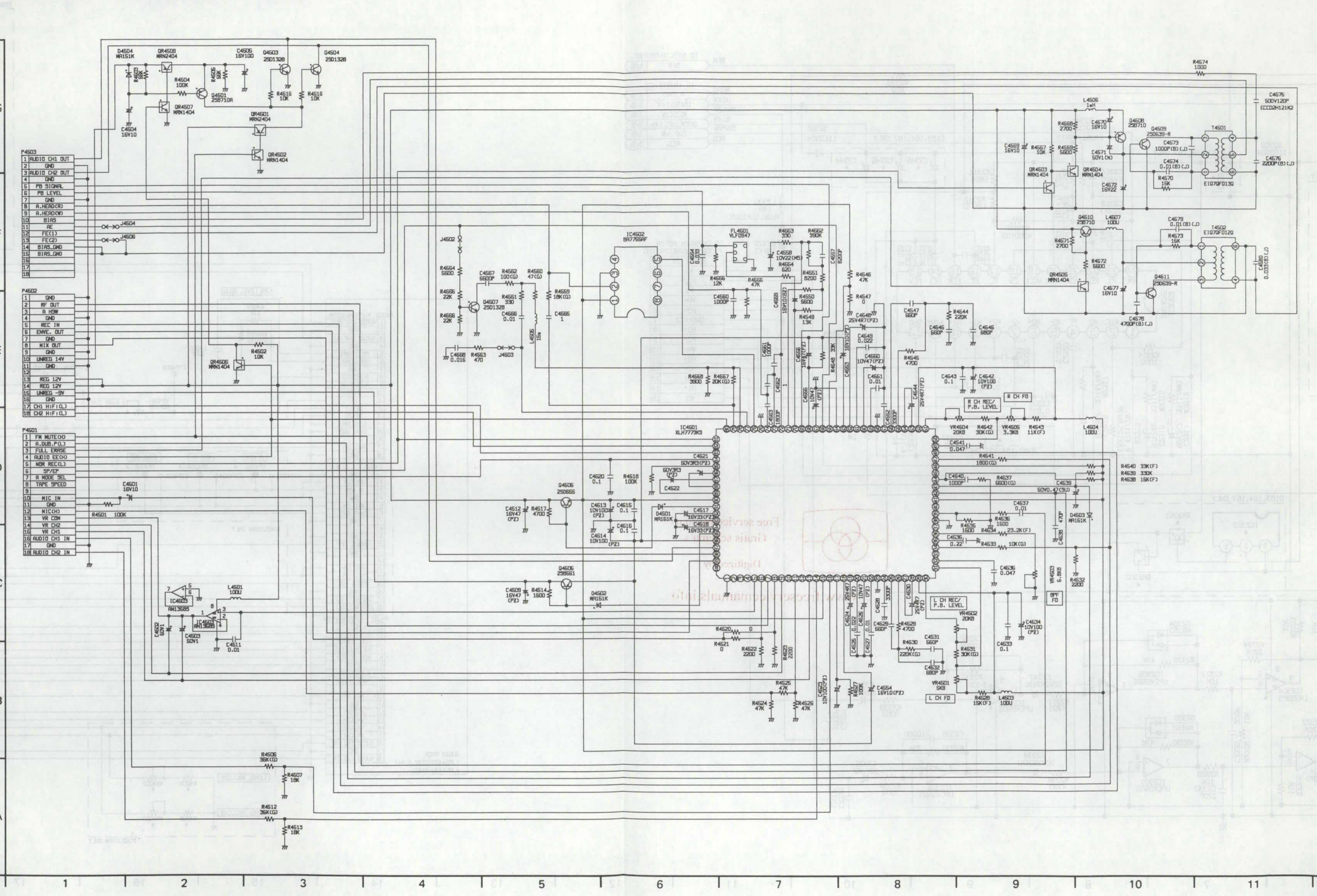


6-8. AUDIO C.B.A. (VEP04429D)

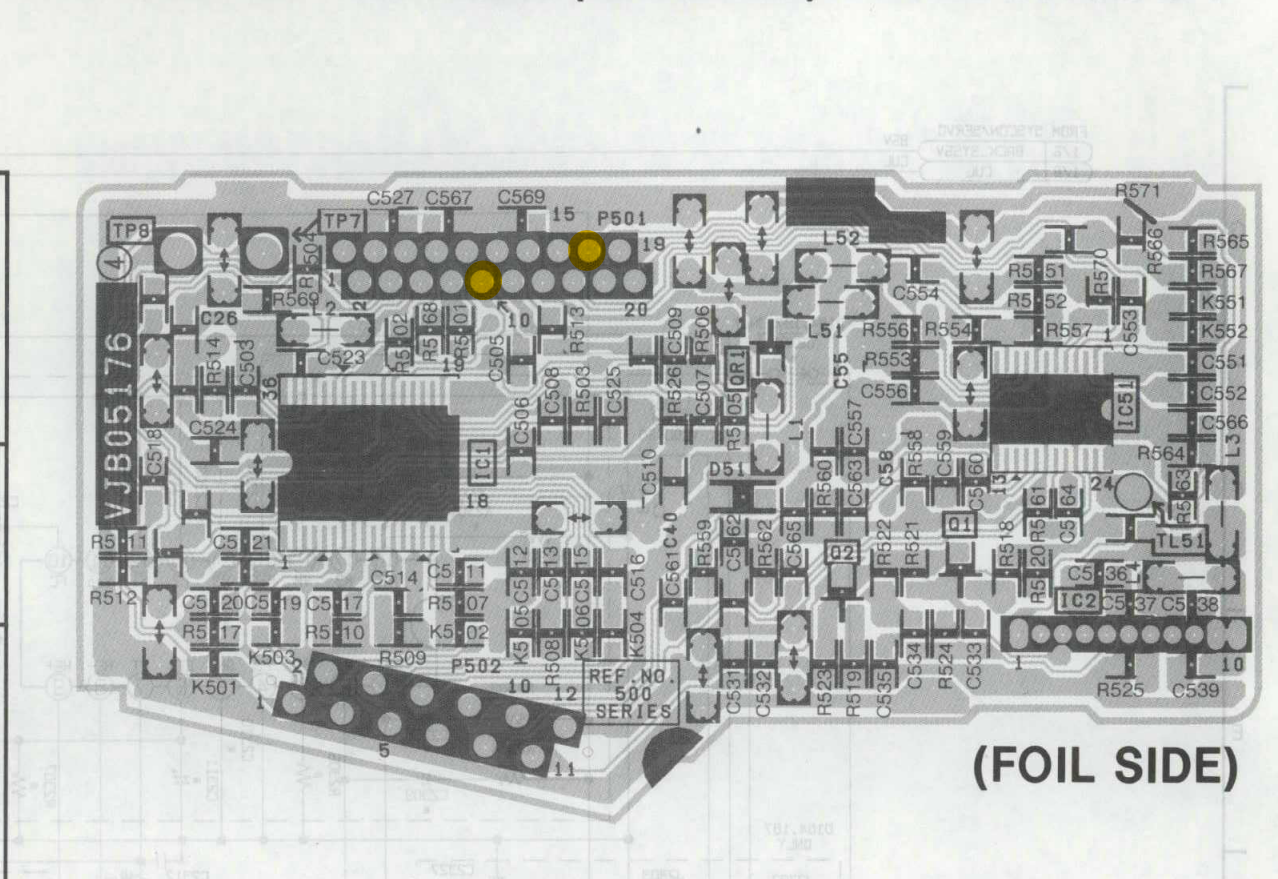


(COMPONENT SIDE)

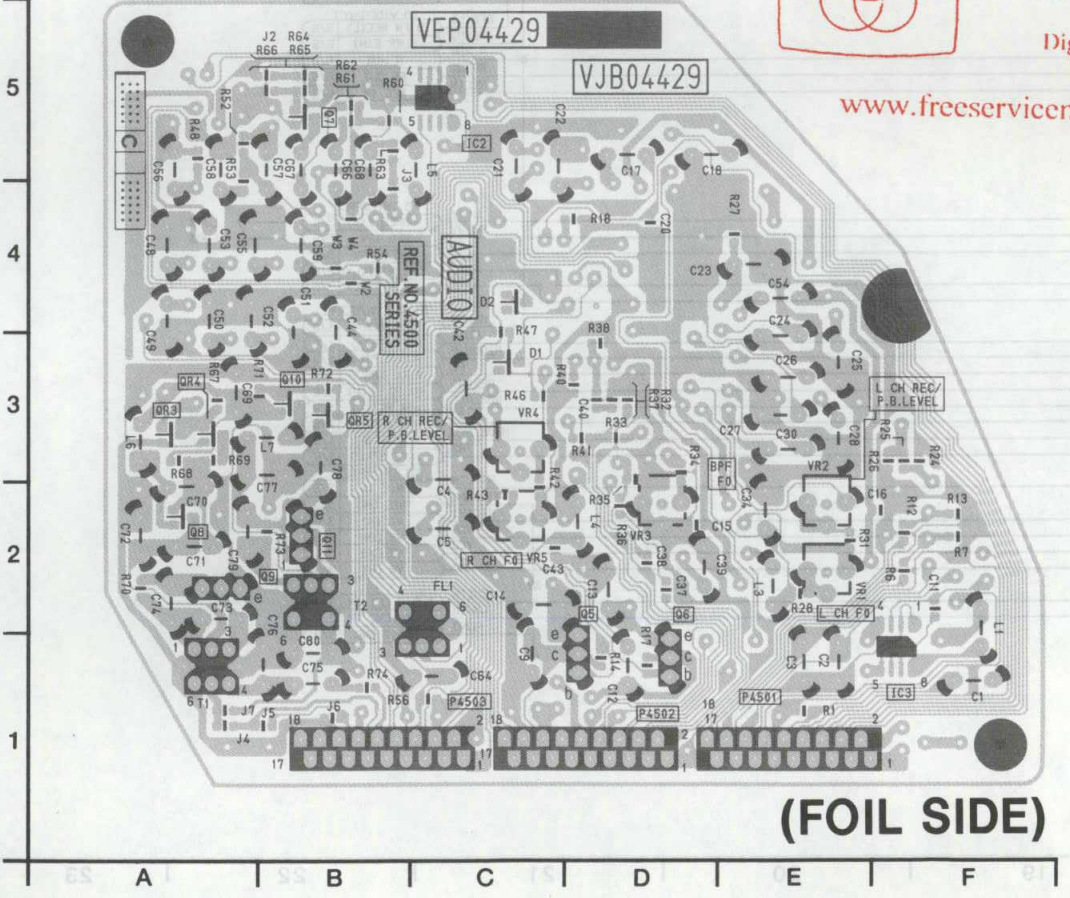
6-9. AUDIO SCHEMATIC DIAGRAM



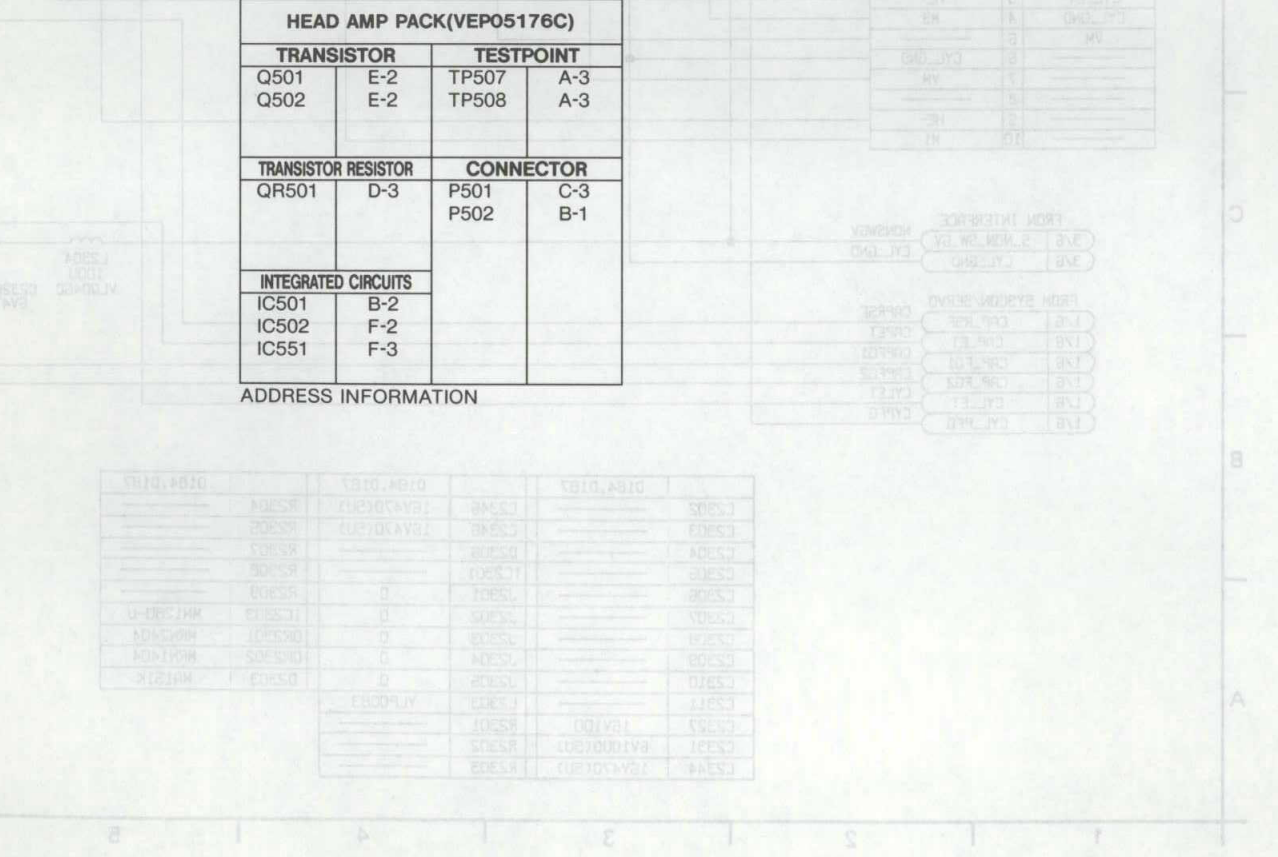
6-10. HEAD AMP PACK C.B.A. (VEP05176C)



(FOIL SIDE)

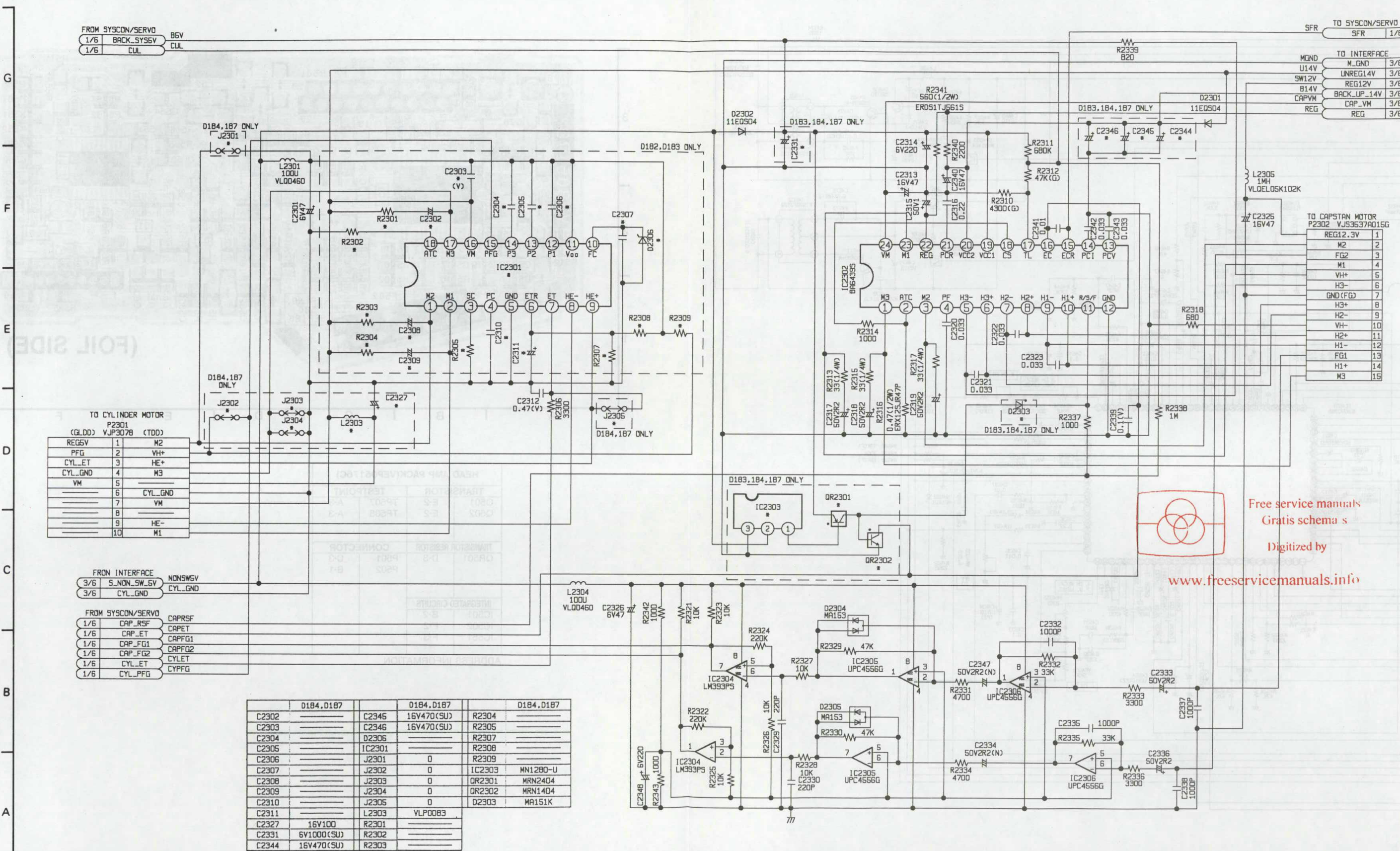


(FOIL SIDE)

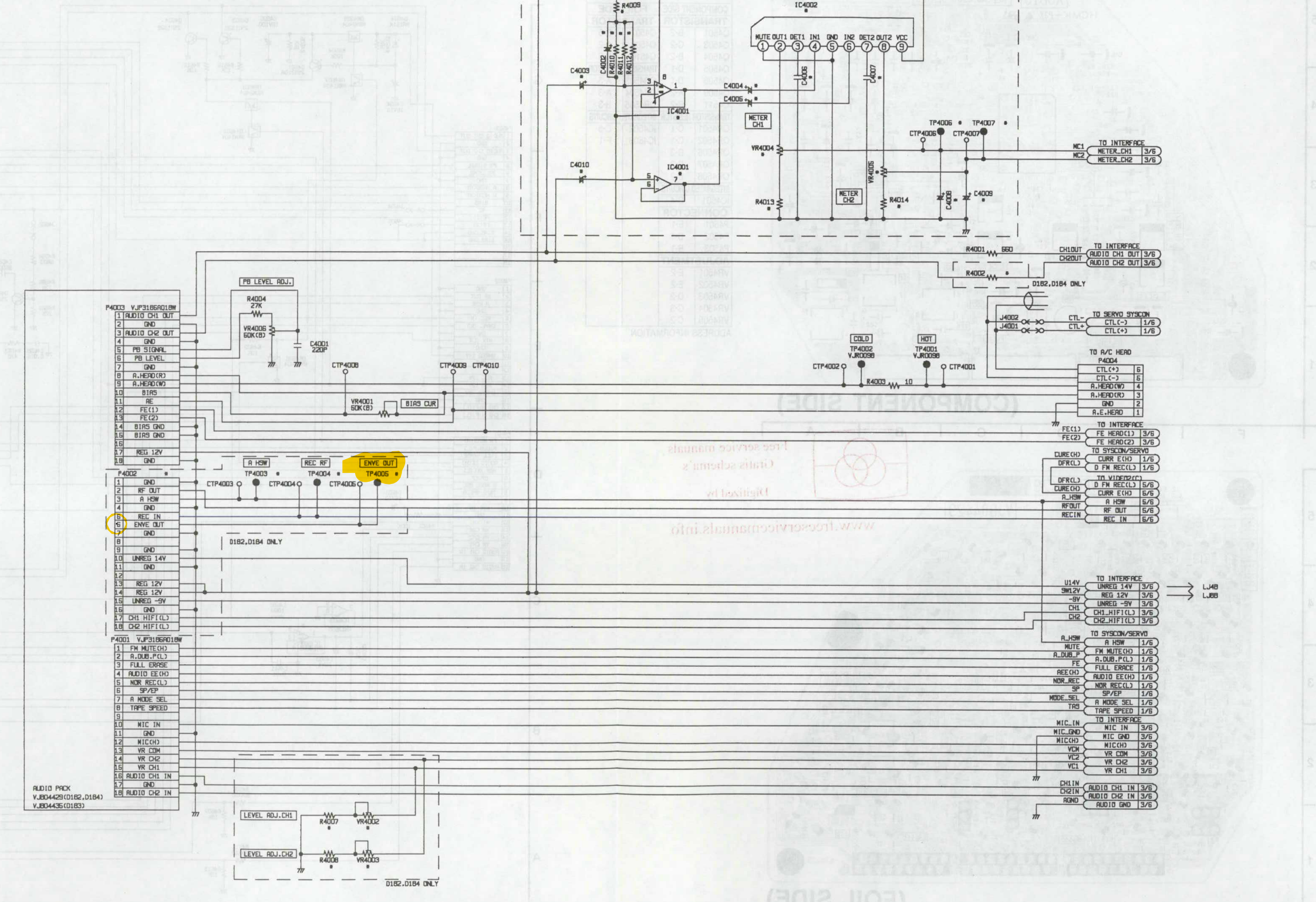


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6-6. MOTOR DRIVE SCHEMATIC DIAGRAM

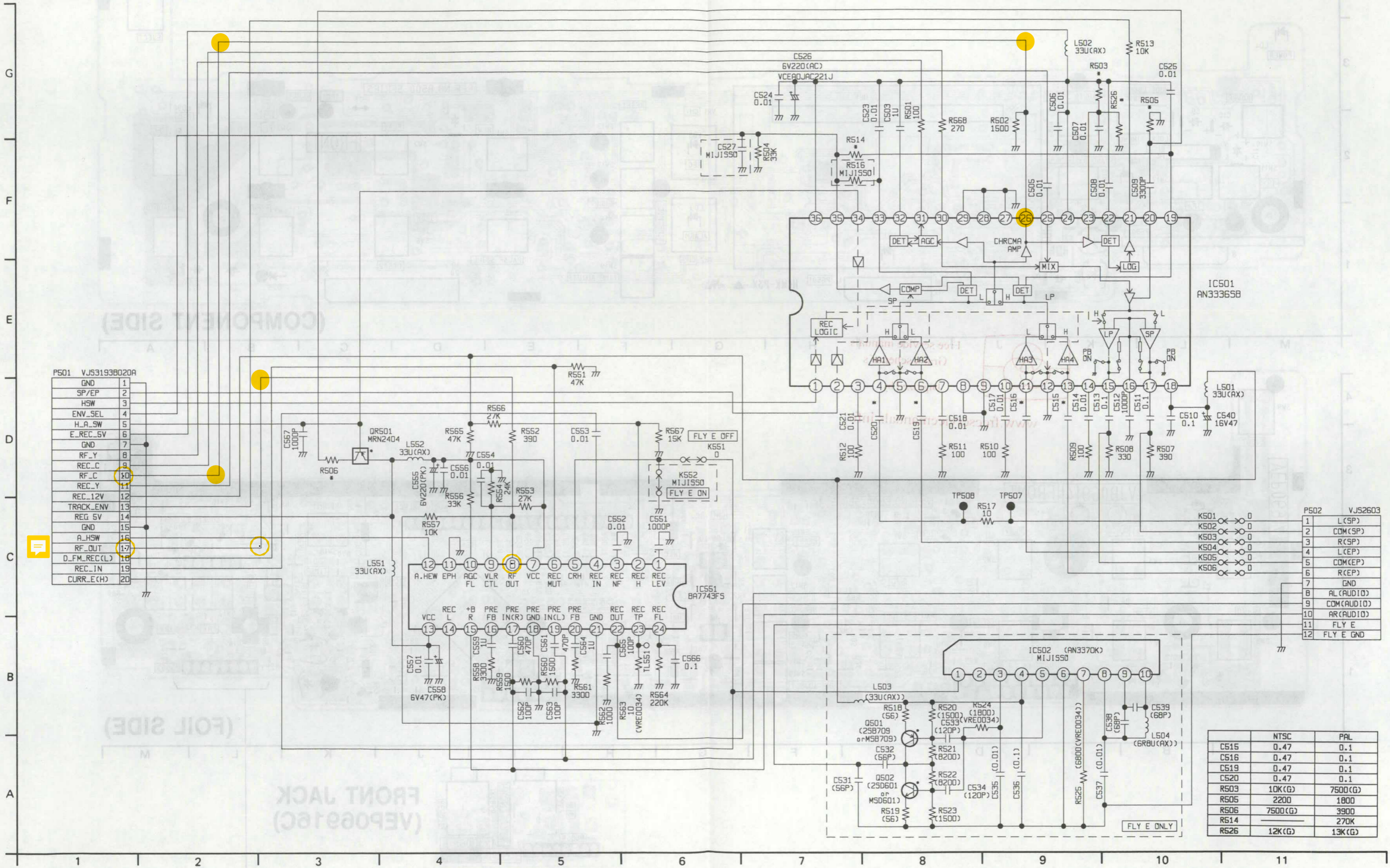


6-7. AUDIO MAIN SCHEMATIC DIAGRAM



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6-11. HEAD AMP PACK SCHEMATIC DIAGRAM



PS01 VJ53193B020A

GND	1
SP/EP	2
HSW	3
ENV_SEL	4
H.A_SW	5
E_REC_5V	6
GND	7
RF_Y	8
REC_C	9
RF_C	10
REC_Y	11
REC_12V	12
TRACK_ENV	13
REG_5V	14
GND	15
A_HSW	16
RF_OUT	17
D_FM_REC(L)	18
REC_IN	19
CURR_E(H)	20

PS02 VJ52603

1	L(SP)
2	COM(SP)
3	R(SP)
4	L(EP)
5	COM(EP)
6	R(EP)
7	GND
8	AL(AUDIO)
9	COM(AUDIO)
10	AR(AUDIO)
11	FLY E
12	FLY E GND

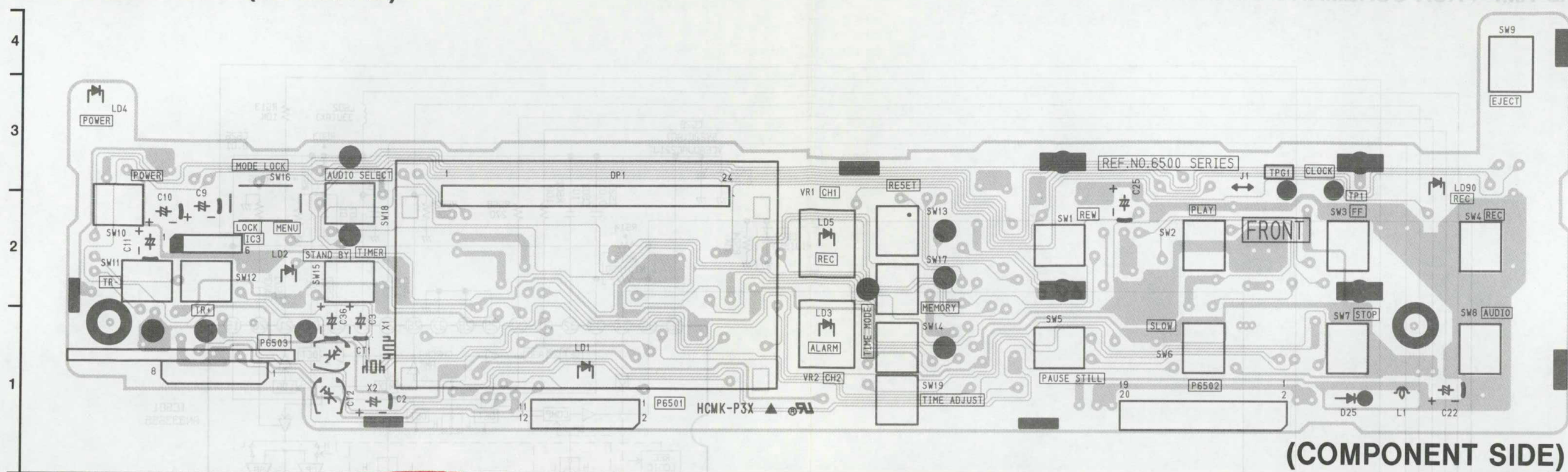
	NTSC	PAL
C515	0.47	0.1
C516	0.47	0.1
C519	0.47	0.1
C520	0.47	0.1
R503	10K(G)	7500(G)
R505	2200	1800
R506	7500(G)	3900
R514		270K
R526	12K(G)	13K(G)

FLY E ONLY

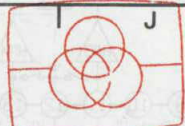
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6-11. HEAD AMP PACK SCHEMATIC DIAGRAM

6-12. FRONT C.B.A. (VEP06914E)

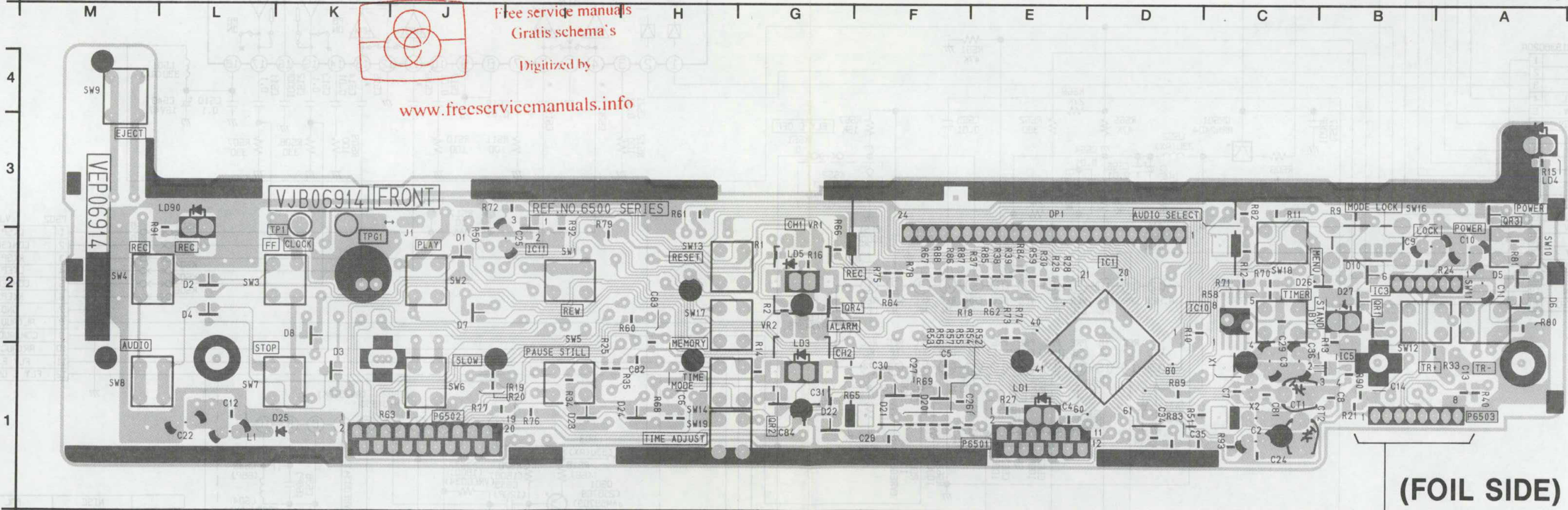


(COMPONENT SIDE)

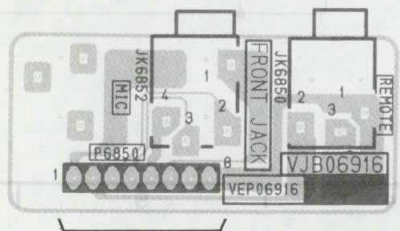


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(FOIL SIDE)



FRONT JACK (VEP06916C)

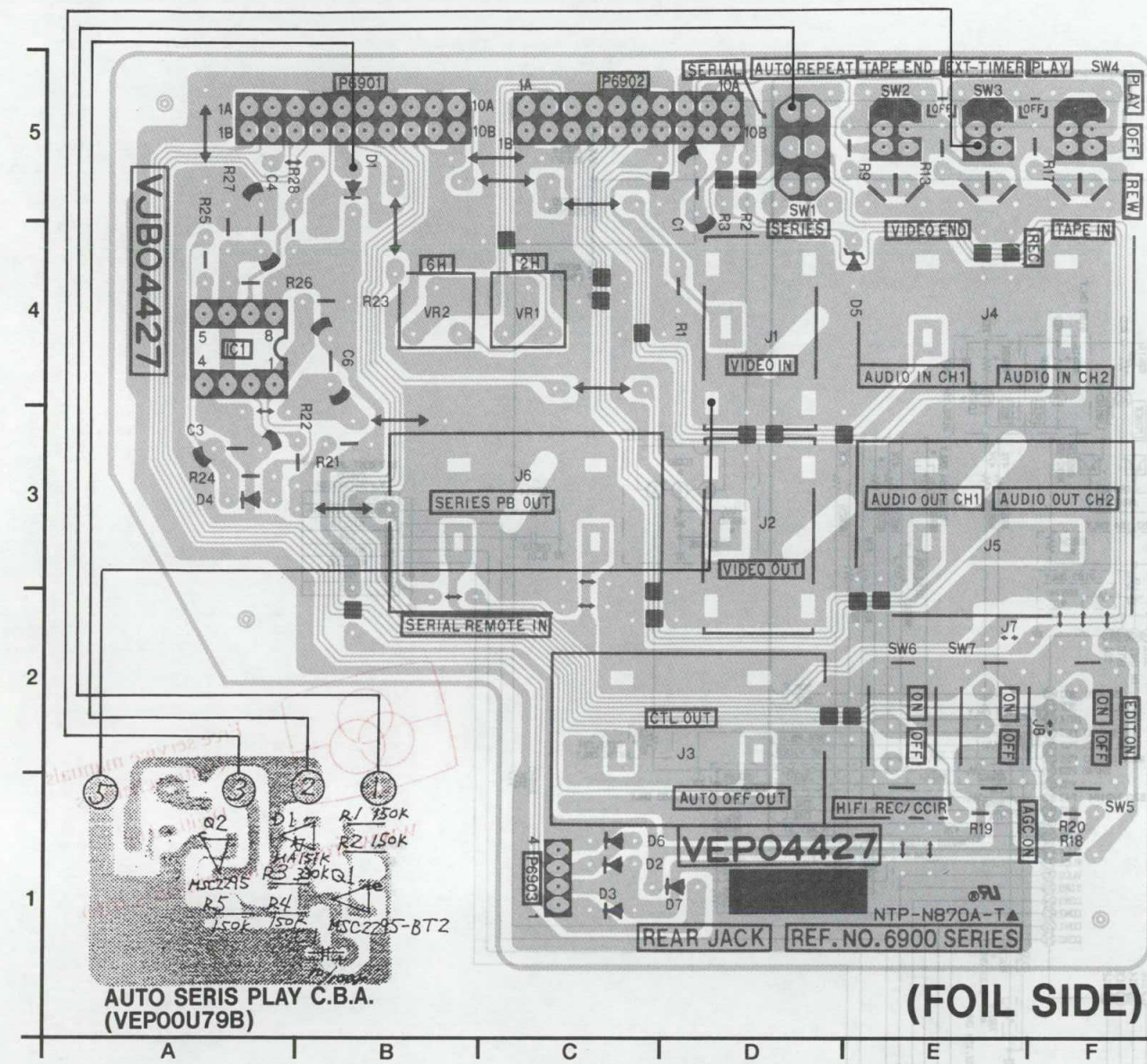
6-13. FRONT & FRONT JACK SCHEMATIC DIAGRAM

FRONT(VEPO6914E)			
COMPONENT SIDE		FOIL SIDE	
INTEGRATED CIRCUITS		TRANSISTOR RESISTOR	
IC6503	L-2	QR6503	M-3
TESTPOINT		QR6504	G-2
TP6501	C-3	INTEGRATED CIRCUITS	
TPG6501	C-3	IC6501	I-2
CONNECTOR		IC6505	K-1
P6501	I-1	IC6510	J-2
P6502	D-1		
P6503	L-1		
ADJUSTMENT			
VR6501	G-2		
VR6502	G-1		
SWITCH			
SW6501	E-2		
SW6502	D-2		
SW6503	B-2		
SW6504	A-2		
SW6505	E-1		
SW6506	D-1		
SW6507	B-1		
SW6508	A-1		
SW6509	A-4		
SW6510	M-2		
SW6511	M-2		
SW6513	F-2		
SW6514	F-1		
SW6516	L-3		
SW6517	F-2		
SW6518	K-2		

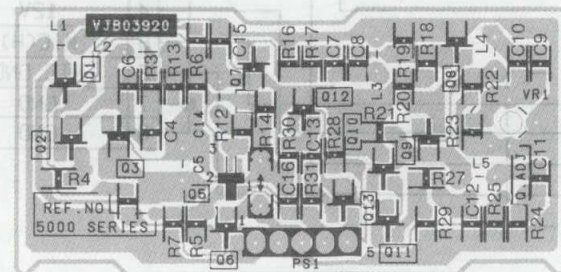
ADDRESS INFORMATION

	D183-T	D183-P	D183-E	D184-E		D183-Y	D183-P	D183-E	D184-E
CR606				100P		RR602			220
CR608	39P	39P	39P	39P		RR613	220	220	220
CR622	10V33	10V33	10V33	5V220		RR614	220	220	220
CR626				16V33		RR615	220	220	220
CR630	270P	270P	270P			RR634			47K
CR631	270P	270P	270P			RR650	470	470	470
CR634	270P	270P	270P			RR661	220K	220K	220K
CR636	270P	270P	270P			RR668	10K	10K	10K
CR681						RR667	10K	10K	10K
CR690	30P	30P	30P	30P		RR663	47K	47K	47K
CR692	30P	30P	30P			RR664	47K	47K	47K
CR624						RR665	470	470	470
CR627	NR151A	NR151A				RR670	0	0	0
CR691	ED005377804P	ED005377804P	ED005377804P	ED005377804P		RR671	0	0	0
CR691	LPD763360379	LPD763360379	LPD763360379	LPD763360379		RR672	0	0	0
CR611	NR1362-RTW	NR1362-RTW	NR1362-RTW	NR1362-RTW		RR673	0	0	0
CR602	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR674	0	0	0
CR603	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR675	0	0	0
CR604	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR676	0	0	0
CR605	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR677	0	0	0
CR606	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR678	0	0	0
CR607	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR679	0	0	0
CR608	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR680	0	0	0
CR609	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR681	0	0	0
CR610	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR682	0	0	0
CR611	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR683	0	0	0
CR612	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR684	0	0	0
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CR614	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR686	0	0	0
CR615	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR687	0	0	0
CR616	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR688	0	0	0
CR617	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR689	0	0	0
CR618	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR690	0	0	0
CR619	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR691	0	0	0
CR620	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR692	0	0	0
CR621	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR693	0	0	0
CR622	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR694	0	0	0
CR623	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR695	0	0	0
CR624	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR696	0	0	0
CR625	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR697	0	0	0
CR626	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR698	0	0	0
CR627	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR699	0	0	0
CR628	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR700	0	0	0
CR629	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR701	0	0	0
CR630	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR702	0	0	0
CR631	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR703	0	0	0
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CR647	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR719	0	0	0
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CR698	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR770	0	0	0
CR699	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR771	0	0	0
CR700	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR772	0	0	0
CR701	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR773	0	0	0
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CR705	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR777	0	0	0
CR706	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR778	0	0	0
CR707	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR779	0	0	0
CR708	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR780	0	0	0
CR709	LN81RCPHL	LN81RCPHL	LN81RCPHL	LN81RCPHL		RR781	0	0	0
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6-14. REAR JACK C.B.A. (VEP14427D)



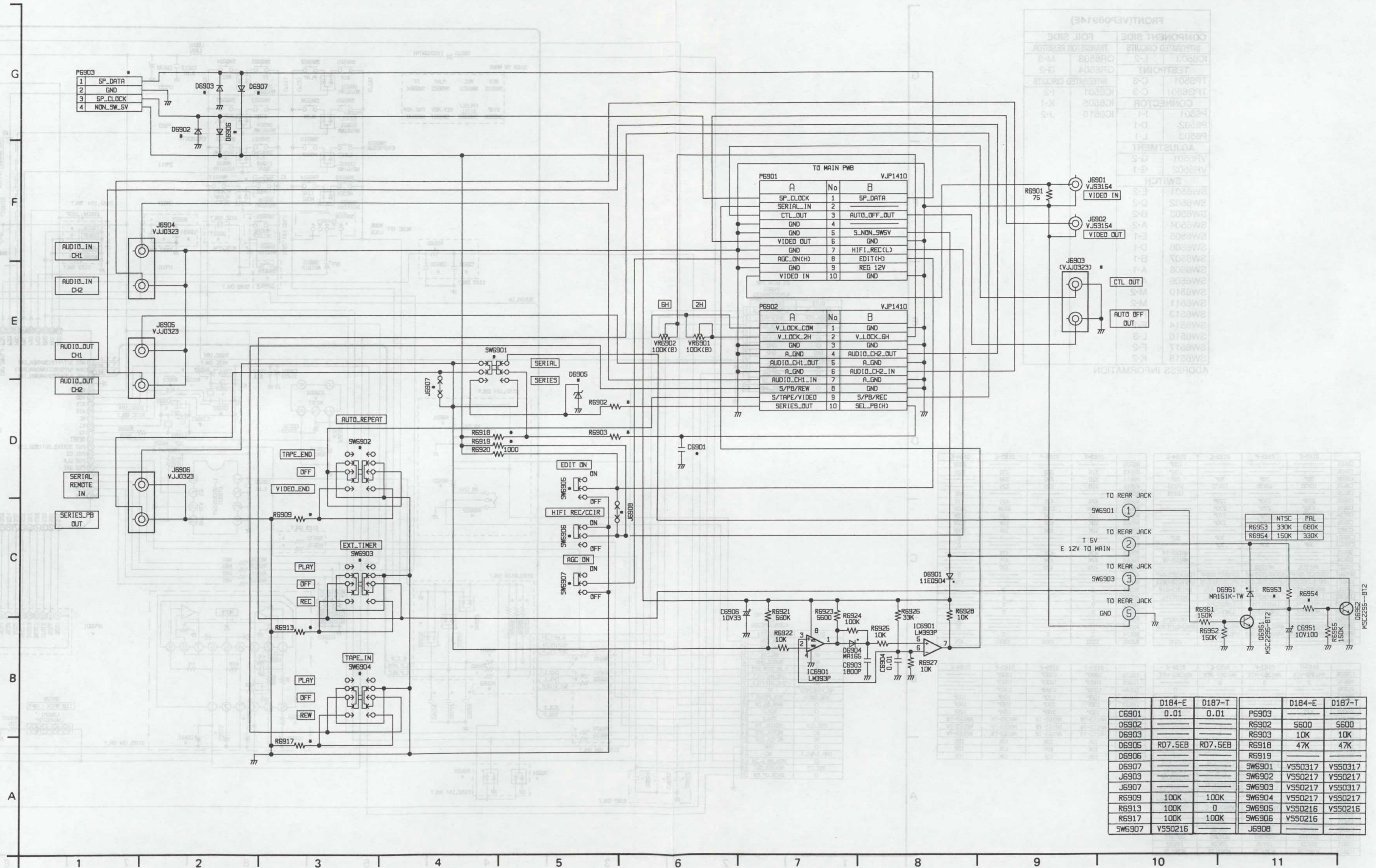
S-VHS PB C.B.A. (VEP03920C)



REAR JACK(VEP00427D)			
INTEGRATED CIRCUITS		SWITCH	
IC6901	A-4	SW6901	D-5
		SW6902	E-5
		SW6903	E-5
		SW6904	F-5
		SW6905	F-2
		SW6907	E-2
CONNECTOR			
P6901	B-5		
P6902	C-5		
P6903	C-1		
ADJUSTMENT			
VR6901	C-4		
VR6902	B-4		

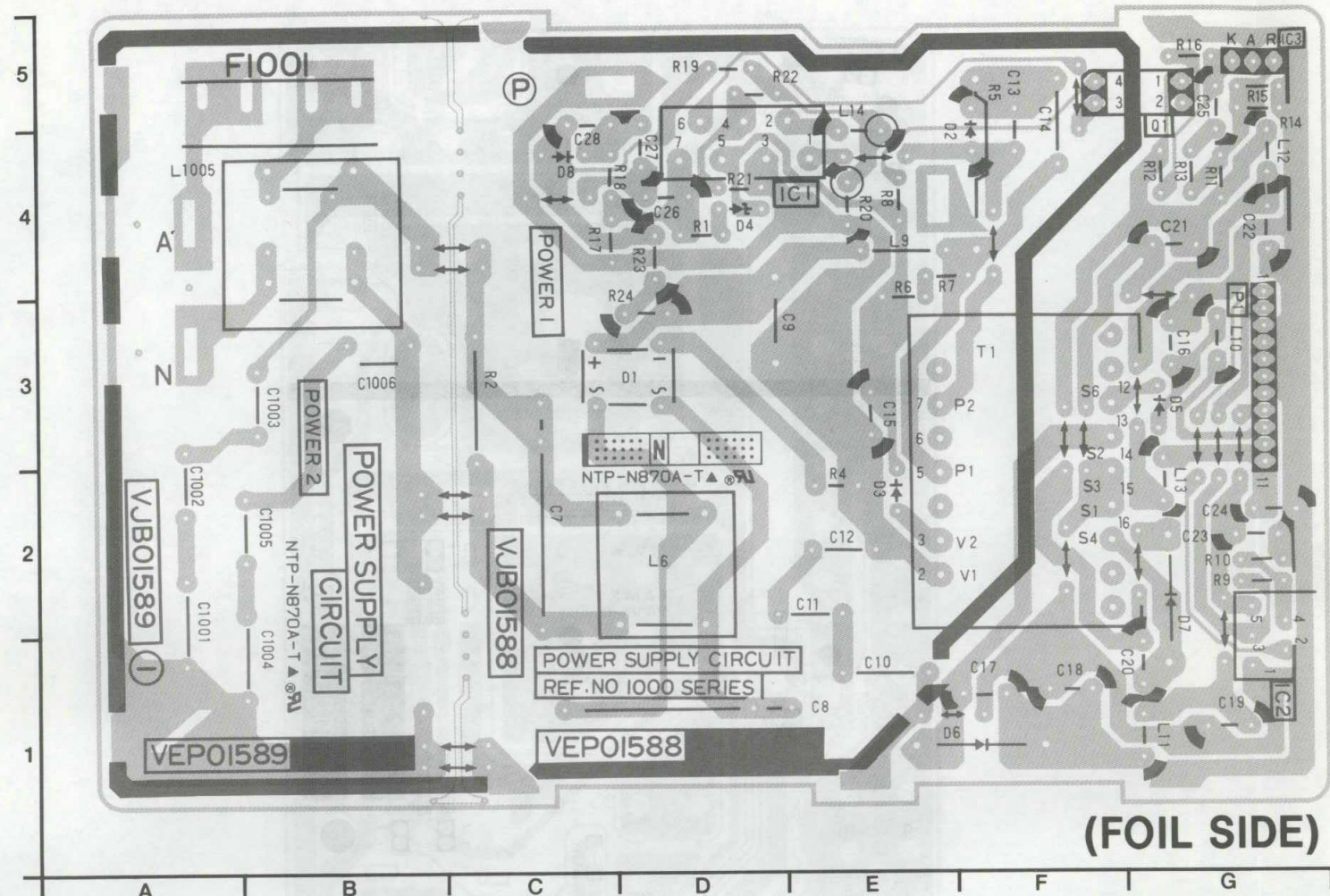
ADDRESS INFORMATION

6-15. REAR JACK SCHEMATIC DIAGRAM

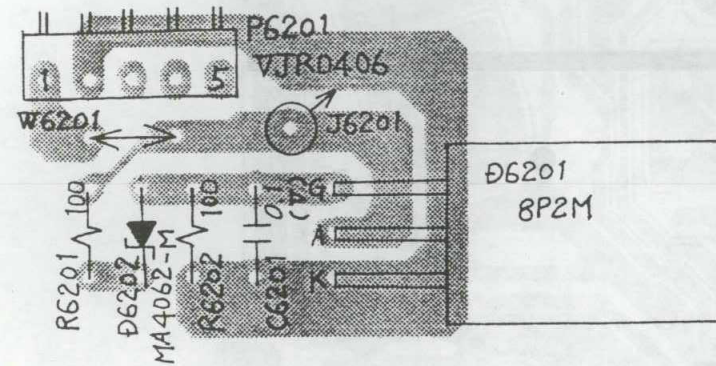


	D184-E	D187-T	D184-E	D187-T
C6901	0.01	0.01	P6903	
D6902			R6902	5600
D6903			R6903	10K
D6905	R07.5EB	R07.5EB	R6918	47K
D6906			R6919	
D6907			SW6901	V550317
J6903			SW6902	V550217
J6907			SW6903	V550317
R6908	100K	100K	SW6904	V550217
R6913	100K	0	SW6905	V550216
R6917	100K	100K	SW6906	V550216
SW6907	V550216		J6908	

6-16. POWER1 C.B.A. (VEP01588B) POWER2 C.B.A. (VEP01589A)



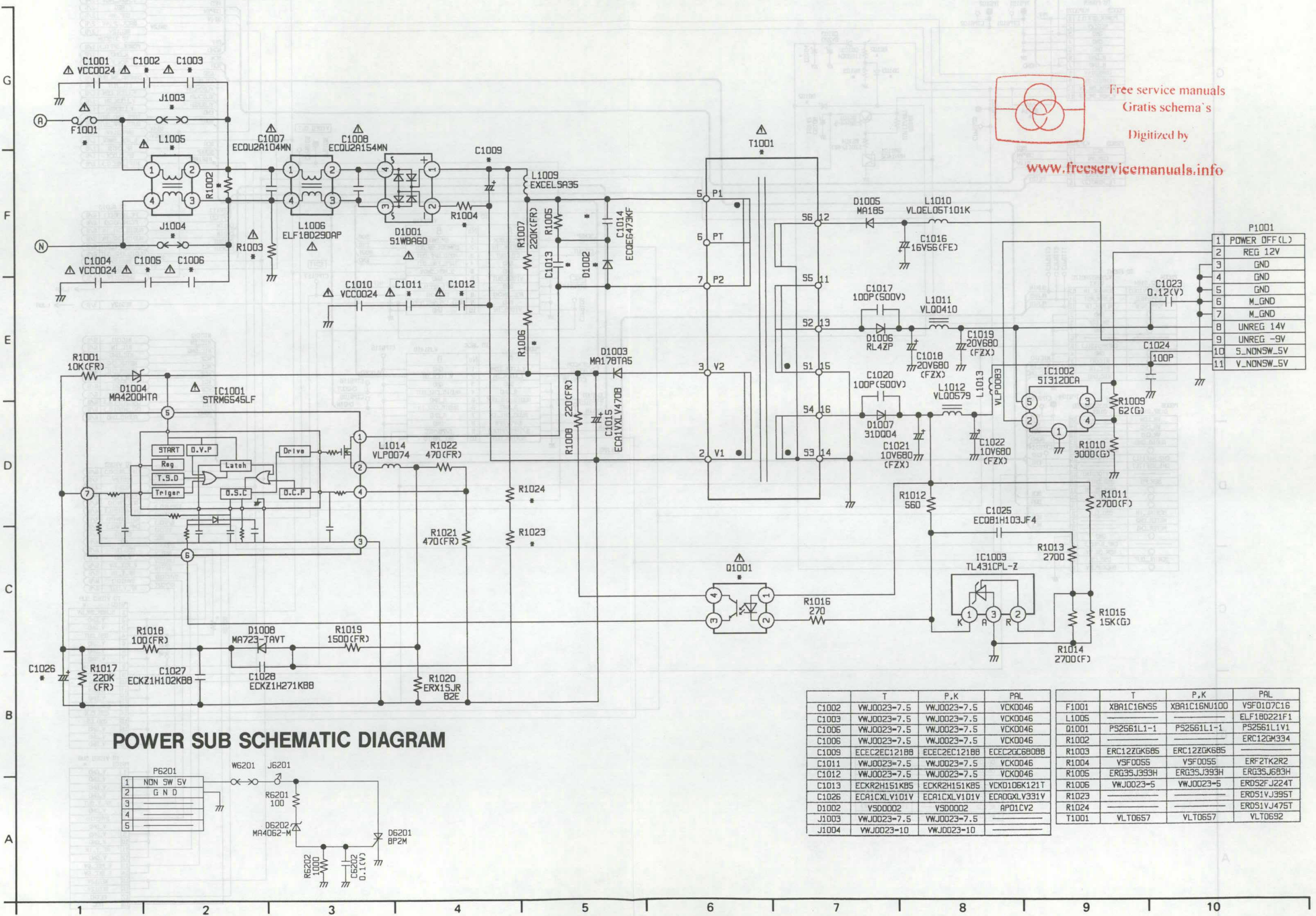
POWER SUB C.B.A. (VEP06974A)



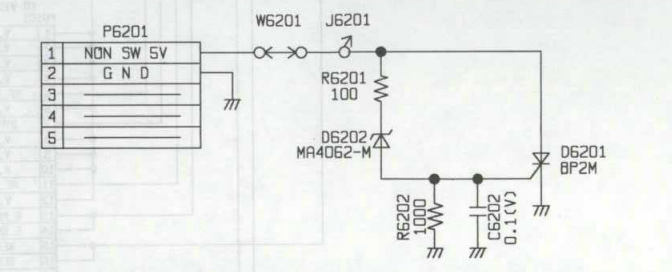
POWER 1(VEP01588B) POWER 2(VEP01589A)	
FOIL SIDE	
Q1001	G-5
INTEGRATED CIRCUITS	
IC1001	D-4
IC1002	G-1
IC1003	G-5
CONNECTOR	
P1001	G-3

ADDRESS INFORMATION

6-17. POWER SCHEMATIC DIAGRAM



POWER SUB SCHEMATIC DIAGRAM

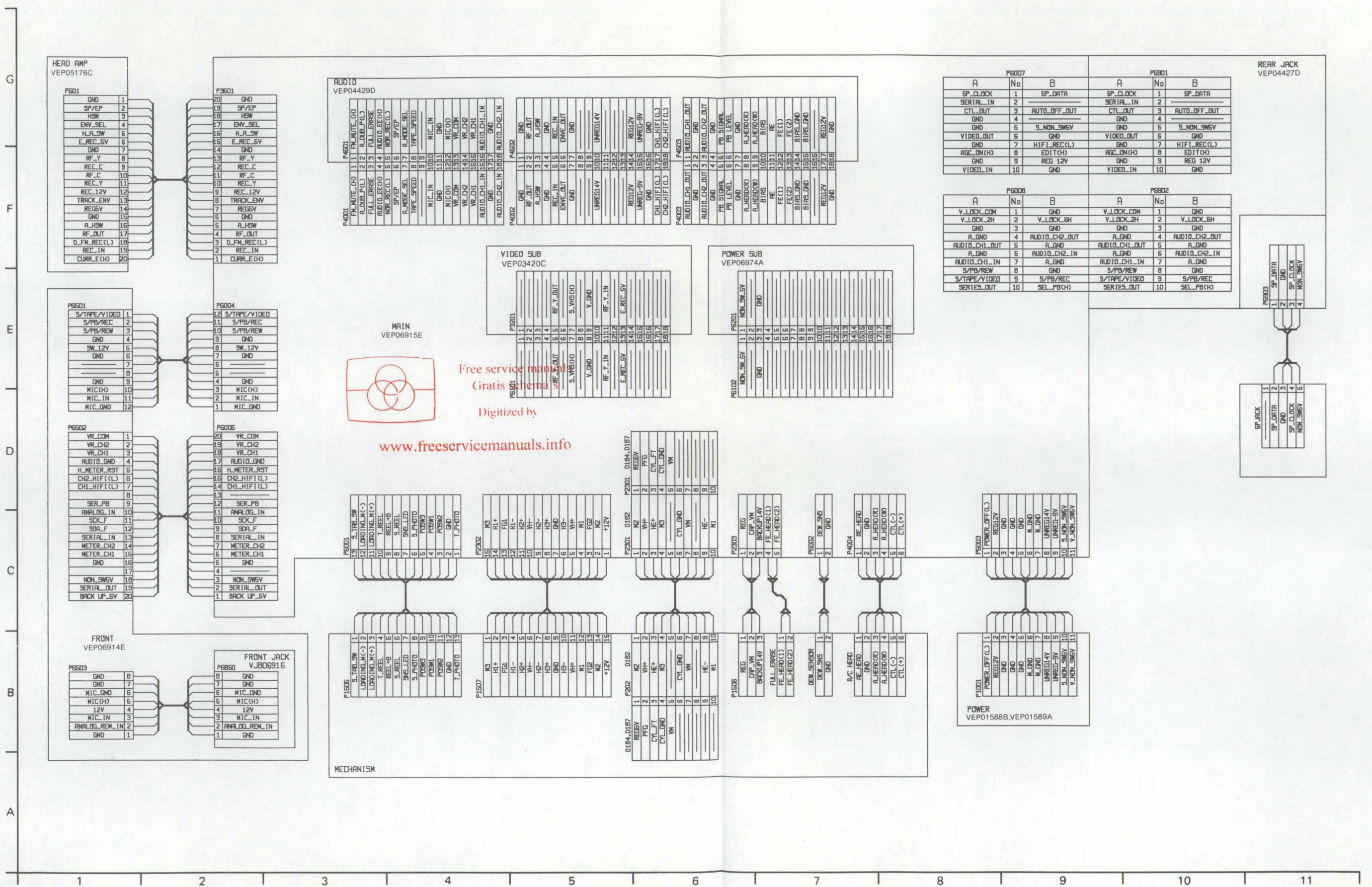


	T	P,K	PAL	T	P,K	PAL
C1002	VWJ0023-7.5	VWJ0023-7.5	VCK0046	F1001	XBA1C16N55	XBA1C16NJ100
C1003	VWJ0023-7.5	VWJ0023-7.5	VCK0046	L1005		
C1006	VWJ0023-7.5	VWJ0023-7.5	VCK0046	D1001	PS2561L1-1	PS2561L1-1
C1009	ECEC2EC12188	ECEC2EC12188	ECEC2GC6808B	R1002		
C1011	VWJ0023-7.5	VWJ0023-7.5	VCK0046	R1003	ERC122GK685	ERC122GK685
C1012	VWJ0023-7.5	VWJ0023-7.5	VCK0046	R1004	VSF0055	VSF0055
C1013	ECKR2H151K85	ECKR2H151K85	VCK0106K121T	R1005	ERG35J393H	ERG35J393H
C1026	ECA1CXLV101V	ECA1CXLV101V	ECA0GXV331V	R1006	VWJ0023-5	VWJ0023-5
D1002	V500002	V500002	APD1CV2	R1023		
J1003	VWJ0023-7.5	VWJ0023-7.5		R1024		
J1004	VWJ0023-10	VWJ0023-10		T1001	VLTO657	VLTO657

Free service manuals
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INTER CONNECTION SCHEMATIC DIAGRAM

Digitized by WWW.FREESERVICEMANUALS.INFO



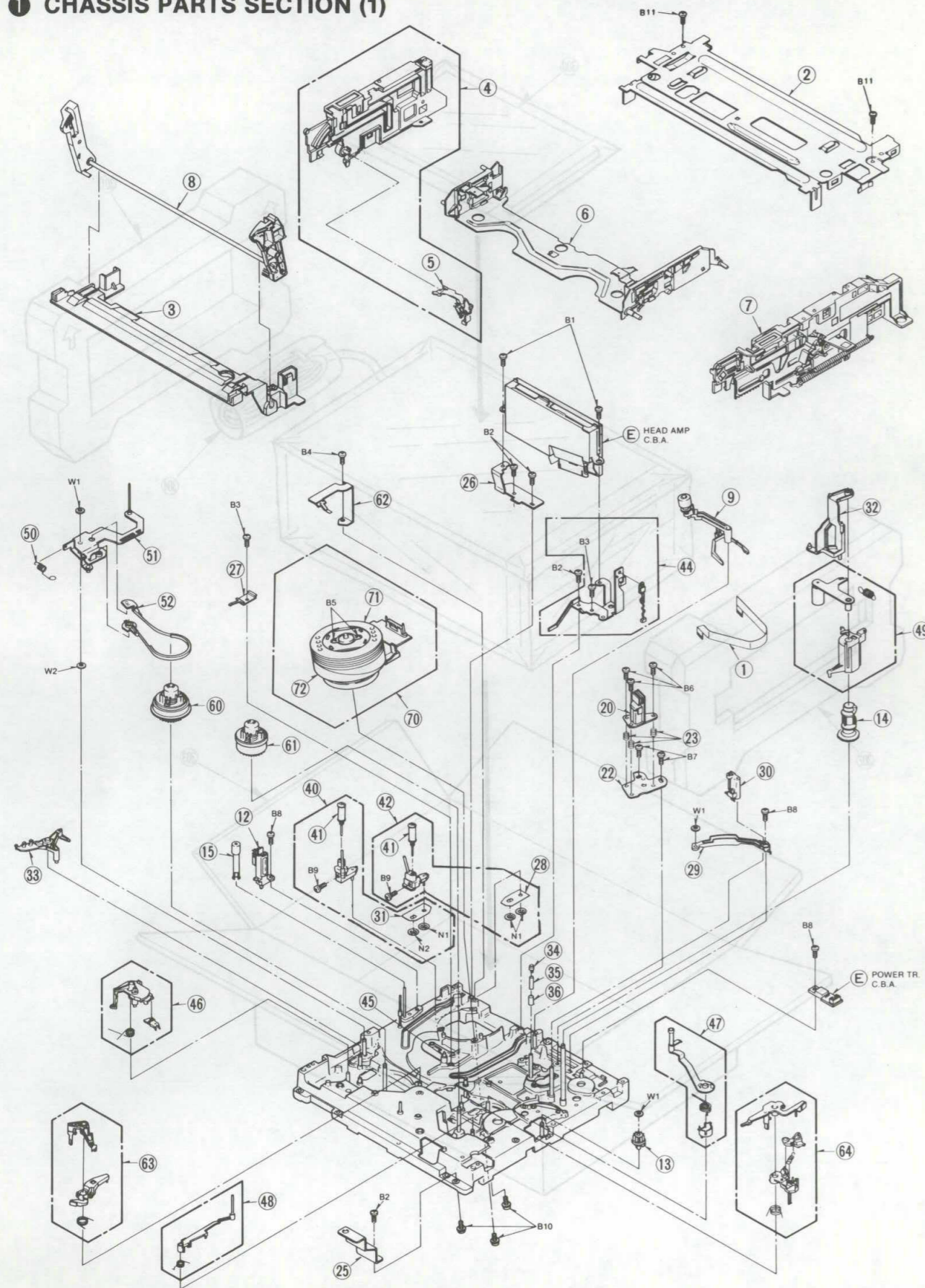
Free service manual
Gratis schema
Digitized by

www.freeservicemanuals.info

7-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

① CHASSIS PARTS SECTION (1)



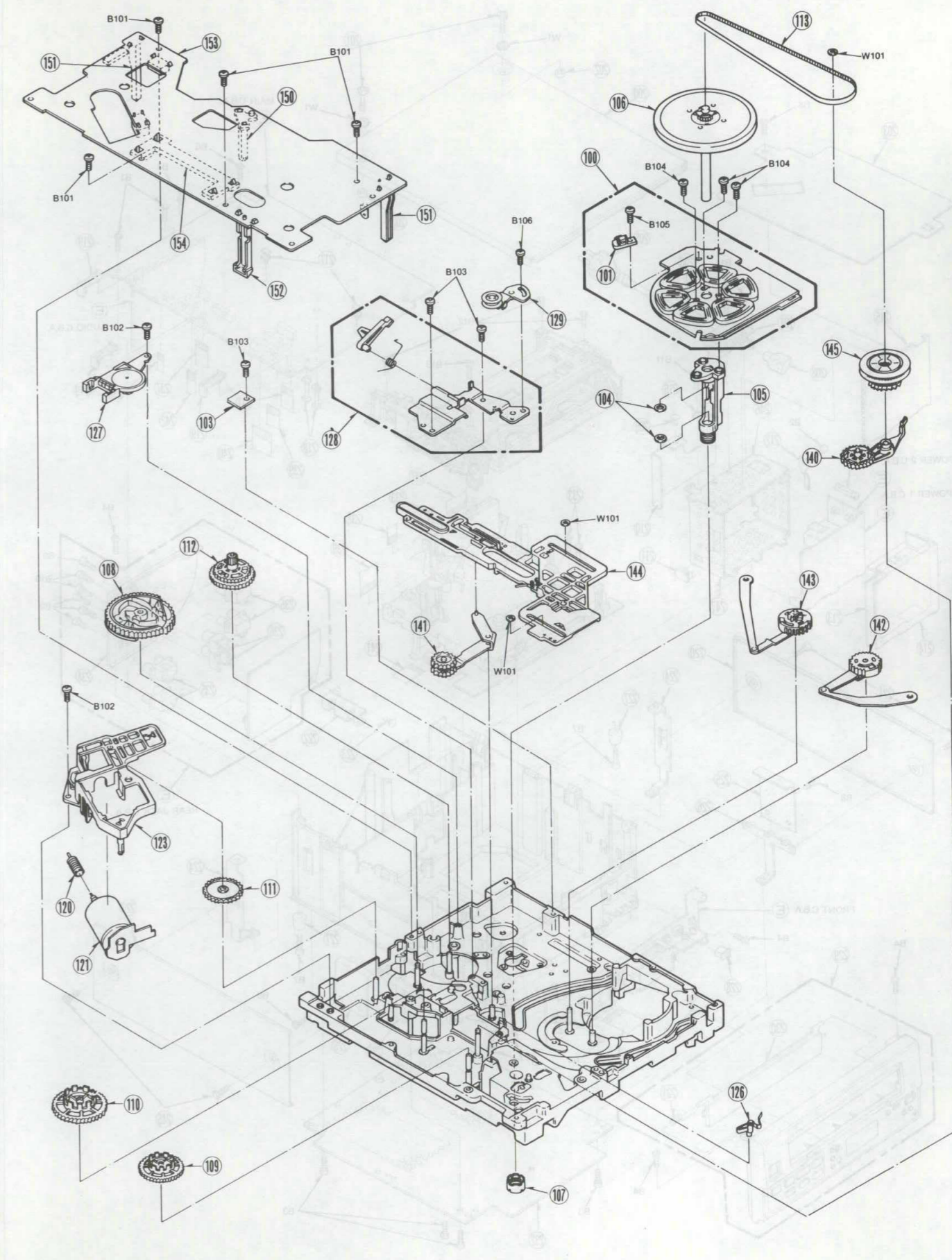
PARTS—1

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VMJ0653	FLEXIBLE CABLE (6P)	1		100(2)	VEK5927	STATOR UNIT	1	
2(1)	VMJ8644	TOP PLATE	1		101(2)	VBK0061	FG HEAD	1	
3(1)	VMJ8787	CASSETTE GUIDE	1		103(2)	VMJ8765	ROTOR STOPPER	1	
4(1)	VXA4660	SIDE PLATE (L) UNIT	1		104(2)	VMK1927	OIL SEAL	2	
5(1)	VXL2250	OPENER LEVER UNIT	1		105(2)	VXD0140	HOUSING UNIT	1	
6(1)	VXA4661	CASSETTE HOLDER PLATE UNIT	1		106(2)	VXP1471	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)	VXL2251	CLEANER ARM UNIT	1		109(2)	VDG0861	SUPPLY REEL GEAR	1	
10(1)	VXP1366	CLEANER ROLLER UNIT	1		110(2)	VDG0862	TAKE UP REEL GEAR	1	
12(1)	VBS0050	FE HEAD	1		111(2)	VDG0868	WORM WHEEL GEAR	1	
13(1)	VDG0871	CARRIAGE CONNECTION GEAR	1		112(2)	VDG0885	SUB CAM GEAR	1	
14(1)	VDG0886	PINCH CAM GEAR	1		113(2)	VDV0235	TIMING BELT	1	
15(1)	VXP1402	IMPEDANCE ROLLER UNIT	1		120(2)	VDG0866	WORM GEAR	1	
20(1)	VED0205	A/C HEAD (1) UNIT	1		121(2)	VEM0427	LOADING MOTOR (1) UNIT	1	
22(1)	VMJ8624	A/C HEAD BASE	1		123(2)	VMD1942	MOTOR BRACKET	1	
23(1)	VMJ2515	A/C HEAD SPRING	3		126(2)	VMK2725	IDLER CONTROL LEVER	1	
25(1)	VMJ8761	MOUNT ANGLE	1		127(2)	VSS0365	MODE SW	1	
26(1)	VMJ8763	HEAD AMP MOUNT ANGLE (L)	1		128(2)	VXA4797	SS BRAKE BASE UNIT	1	
27(1)	VMC0917	EARTH SPRING	1		129(2)	VXA4799	TENSION ROLLER UNIT	1	
28(1)	VMJ8874	INCLIND BASE HOLDER (S)	1		140(2)	VXL2229	IDLER ARM UNIT	1	
29(1)	VMD2078	P5 STOPPER BASE	1		141(2)	VXL2230	DIRECT LEVER UNIT	1	
30(1)	VXA4927	P5 POST STOPPER	1		142(2)	VXL2299	SUPPLY LOADING ARM UNIT	1	
31(1)	VMJ8873	INCLIND BASE HOLDER (T)	1		143(2)	VXL2300	TAKE UP LOADING ARM UNIT	1	
32(1)	VMD2101	OPENER PIECE	1		144(2)	VXL2307	MAIN LEVER UNIT	1	
33(1)	VMK2776	TENSION SPRING ARM	1		145(2)	VXP1409	CENTRE CLUTCH	1	
34(1)	VMK1544	P4 UPPER LIMITER	1		150(2)	VMD1926	LED HOLDER	1	
35(1)	VMK2175	P4 SLEEVE	1		151(2)	VMD1927	PHOTO TRANSISTOR HOLDER	2	
36(1)	VMK2176	P4 LOWER LIMITER	1		152(2)	VES0695	SAFETY TAB SW	1	
40(1)	VXA4982KIT	INCLIND BASE (S) UNIT	1		153(2)	VJB00563	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON THE C.B.A. IS LISTED ON ELECTRICAL PARTS LIST.
41(1)	VXP1415	ROLLER POST (S)	1						
42(1)	VXA4984KIT	INCLIND BASE (T) UNIT	1						
44(1)	VXA4869	HEAD AMP MOUNT ANGLE (R) U.	1						
45(1)	VMS5383	CASSETTE POSITION FIXTURE	1		154(2)	VMD2029	REEL SHAFT GUIDE	1	
46(1)	VXL2310	REVIEW ARM UNIT	1						
47(1)	VXL2306	P5 ARM UNIT	1						
48(1)	VXL2243	TAKE UP TENSION REGULATOR ARM UNIT	1						
49(1)	VXL2246	PINCH ARM UNIT	1		B101	VHD0772	SCREW	4	
50(1)	VMJ2434	TENSION SPRING	1		B102	XTV26+6F	SCREW	2	
51(1)	VXL2309	TENSION ARM (1) UNIT	1		B103	XTV26+6F	SCREW	3	
52(1)	VXZ0310	TENSION BAND UNIT	1		B104	VHD0753	SCREW	3	
60(1)	VXR0221	SUPPLY REEL TABLE UNIT	1		B105	VHD0754	SCREW	1	
61(1)	VXR0222	TAKE UP REEL TABLE UNIT	1		B106	XSB26+4FZ	SCREW	1	
62(1)	VXS0113	EARTH PLATE	1		W101	VMK2208	WASHER	3	
63(1)	VXZ0312	SUPPLY BRAKE ARM UNIT	1						
64(1)	VXZ0313	TAKE UP BRAKE ARM UNIT	1						
70(1)	VEG1027	CYLINDER UNIT	1						
71(1)	VEH0601	UPPER CYLINDER UNIT	1						
72(1)	VJR0082	RT TERMINAL	1						
B1	VHD0773	SCREW	2						
B2	XTV26+6F	SCREW	4						
B3	XTV26+4F	SCREW	2						
B4	XTN3+6FFZ	SCREW	1						
B5	VHD0425	SCREW	2						
B6	VHD0762	SCREW	3						
B7	XTV26+6FZ	SCREW	2						
B8	XTV26+8F	SCREW	3						
B9	VHD0760	SCREW	2						
B10	VHD0342	SCREW	3						
N1	VHN0192	NUT	3						
N2	VHN0193	NUT	1						
W1	VMK2208	WASHER	3						
W2	XMGV26D5G	WASHER	1						

PARTS—2

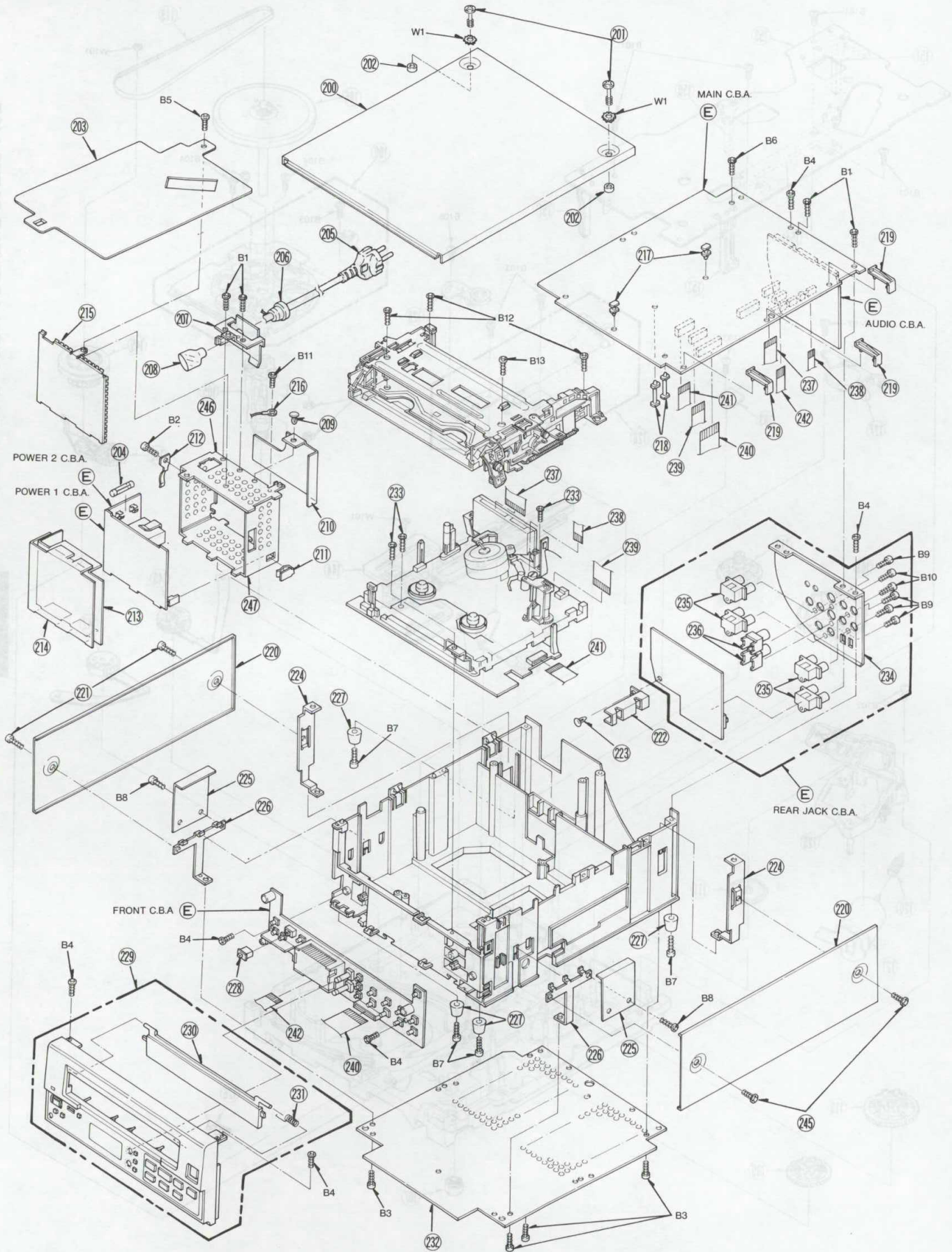
Published in Heiloo, Holland.

② CHASSIS PARTS SECTION (2)



PARTS—3

3 CASING PARTS SECTION

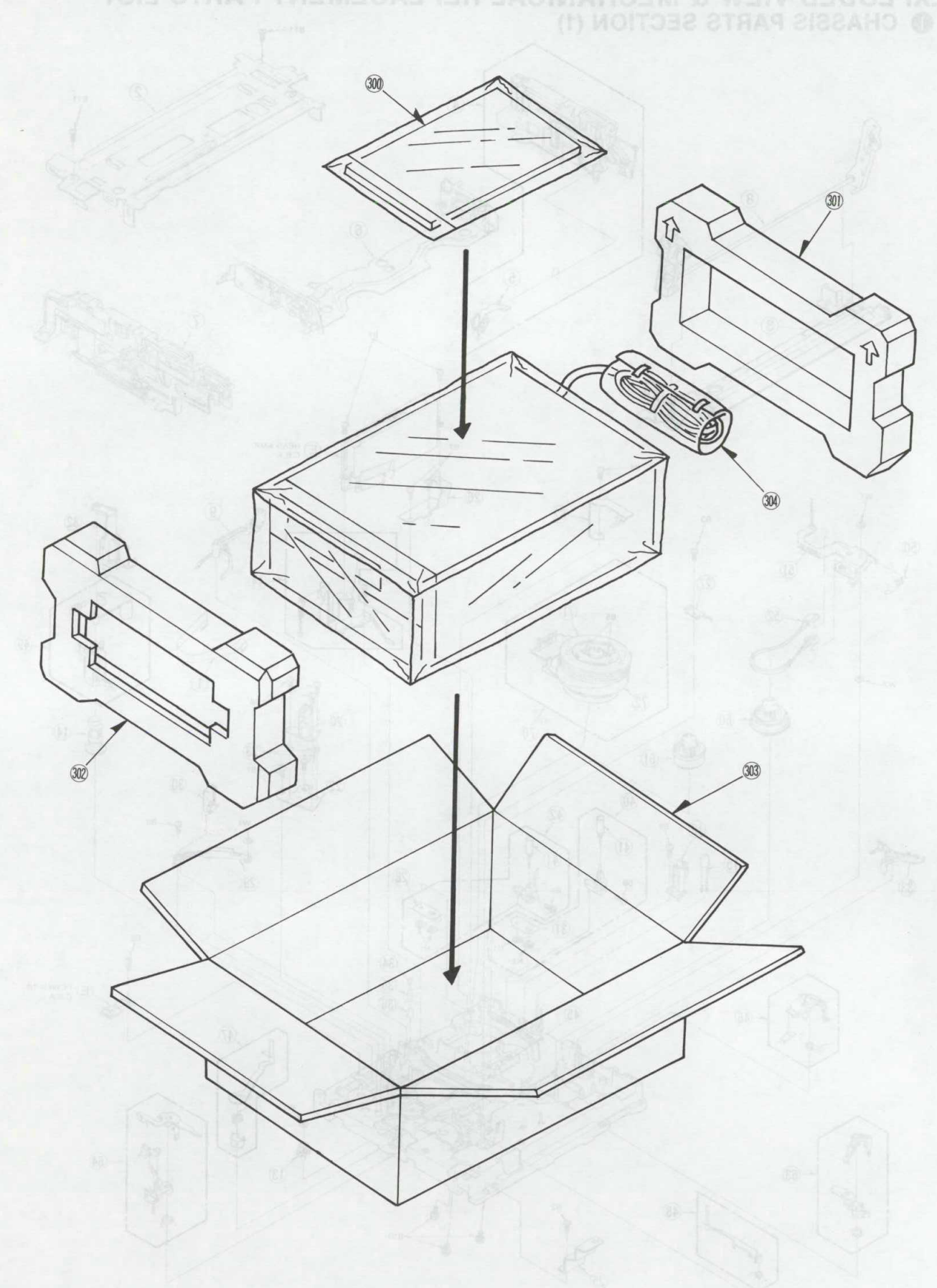


PARTS—4

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
200(3)	VGM1045	TOP PANEL	1	
201(3)	VHD0222	SCREW	2	
202(3)	VMK2248	SPACER	2	
203(3)	VSC4044	SHIELD SEAT (B)	1	
204(3)	XBA2C16TH15	FUSE 1.6A/125V	1	<1>
205(3)	VJA0675	AC CORD	1	FOR AG-5260E<1>
205(3)	VJA0739	AC CORD	1	FOR AG-5260B<1>
206(3)	VMK0936	AC CORD BUSHING	1	<1>
207(3)	VMP4260	POWER PLATE	1	
208(3)	VMK0237	AC CORD COVER	1	<1>
209(3)	VJF0649	RIVET	1	
210(3)	VMZ2292	BARRIER	1	
211(3)	VMC0357	TR HOLDER SPRING	1	
212(3)	VMC0525	EARTH SPRING	1	
213(3)	VMZ2243	BARRIER	1	
214(3)	VSC3999	BARRIER	1	
215(3)	VSC3959	SHIELD PLATE	1	
216(3)	VJH12	EARTH TERMINAL	1	
217(3)	VKC0295	SPACER	2	
218(3)	VKC0422	SPACER	2	
219(3)	VKC0421	HINGE	3	
220(3)	VGM1046	SIDE PANEL (R)	1	
221(3)	VHD0305	SCREW	4	
222(3)	VJF1094	P.C.BOARD HOLDER	1	
223(3)	VJF0649	RIVET	1	
224(3)	VMP4218	EARTH ANGLE (B)	2	
225(3)	VSC4046	SHIELD SEAT (C)	2	
226(3)	VMP4217	EARTH ANGLE (A)	2	
227(3)	VKA0133	RUBBER FOOT	4	
228(3)	VGU5582	SLIDE SW SHEET	1	
229(3)	VYP5456	FRONT PANEL UNIT	1	
230(3)	VKF2127	BLINDER PANEL	1	
231(3)	VMB2521	BLINDER PANEL SPRING	1	
232(3)	VKU0395	BOTTOM PLATE	1	
233(3)	VHD0168	SCREW	3	
234(3)	VJH0718	REAR JACK PANEL	1	
235(3)	VJJ0323	RCA PIN JACK	4	
236(3)	VJS3154	BNC CONNECTOR	2	
237(3)	VMJ20AM70B0	FLEXIBLE CABLE	1	
238(3)	VMJ0785	FLEXIBLE CABLE	1	
239(3)	VMJ15AM510B0	FLEXIBLE CABLE	1	
240(3)	VMJ20AM385B0	FLEXIBLE CABLE	1	
241(3)	VMJ13AM200B0	FLEXIBLE CABLE	1	
242(3)	VMJ12AM610B0	FLEXIBLE CABLE	1	
243(3)	VSC3957	SHIELD CASE	1	
244(3)	VSC3958	SHIELD CASE	1	
245(3)	VGM1070	SIDE PANEL (L)	1	
B1	XTV3+6F	SCREW	4	
B2	XTV26+4F	SCREW	1	
B3	XTB3+10F	SCREW	4	
B4	XTV3+10GR	SCREW	6	
B5	XTV3+6FR	SCREW	1	
B6	XYE3+EF8FR	SCREW	1	
B7	XTV3+14J	SCREW	4	
B8	XTV3+6J	SCREW	2	
B9	XTV3+10GFZ	SCREW	4	
B10	XTV3+8FFZ	SCREW	2	
B11	XYE4+EF6	SCREW	1	
B12	XTV26+8FR	SCREW	3	
B13	XTV26+10F	SCREW	1	

PARTS—5
Published in Heiloo, Holland.

4 PACKING PARTS SECTION

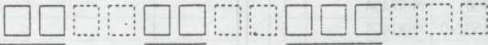


PARTS—6

7-2. ELECTRICAL REPLACEMENT PARTS LIST

- Be sure to make your orders of replacement parts according to this list.
 - "<R>" in Remark column indicates recommended parts.
 - "<M>" in Remark column indicates needed in the periodical maintenance.
- IMPORTANT SAFETY NOTICE**
 Components identified by "<I>" have special characteristics important for safety. When replacing any of these components, use only the original ones.
 Meaning of symbol "<I>" on this parts list is exactly the same as symbol Δ on Schematic and Circuit Board Diagrams.
- Unless otherwise specified;
 - All resistors are in (Ω), K=1,000 Ω , M=1,000k Ω .
 - All capacitors are in (F), U=10⁻⁶F, P=10⁻¹²F.
- ITEM NUMBERS WITH CAPITAL LETTER E**
 Item numbers with capital letter E (Example: E1, E2,) in Ref. no. column mean that the parts are listed with the E item numbers in the exploded views.
- The main assembled parts are shown below C.B.A. marked with "■".
- When ordering parts, use parts No. only form Part No. column.
- Printed circuit board assembly with mark (RTL) is no longer available after continuation of the product.
- Explanation of part number

CAPACITOR



Type Rated Volt. Capacitance Value

Type	Dielectric
ECA ECE ECS ECO	ELECTROLYTIC CAPACITOR
ECC ECF ECK ECU	CERAMIC CAPACITOR
ECH ECQ ECW	PLASTIC FILM CAPACITOR

Rated Volt.

Code	0G	0J	1A	1C	1D	1E	1V	1H	1J	1K
W.V. (V)	4	6.3	10	16	20	25	35	50	63	80

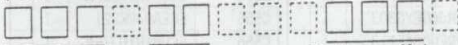
Code	2A	2C	2P	2D	2E	2F	2V	2G	2W	2H
W.V. (V)	100	160	180	200	250	315	350	400	450	500

Capacitance Value

The 1st 2 figures are actual values and the 3rd denotes the number of zero.
 "R" denotes the decimal point and all figures are the actual number with "R".
 ※ Unit Electrolytic capacitor ---- μ F
 Ceramic capacitor ---- pF
 Plastic film capacitor ---- pF

Example : ECEA1HU221 → ELECTROLYTIC CAPACITOR
 50V 220 μ F

RESISTOR



Type Rated Power Resistance Value

Type	Dielectric
ERD	CARBON RESISTOR
ERF FRW	WIRE WOUND RESISTOR
ERQ ERU	FUSE RESISTOR
ERC	SOLID RESISTOR
ERX ERG ERO ERN	METAL RESISTOR
ERJ	CHIP RESISTOR
ERS	THERMAL SENSITIVE RESISTOR

Rated Power

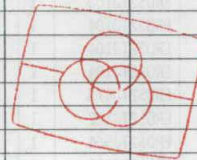
Code	1	2	3	3G	6	8	10	12	14	25
R.Power (w)	1	2	3	1/16	1/10	1/8	1/8	1/2	1/4	1/4

Code	S1	S2							
R.Power (w)	1/2	1/4							

Resistance Value

The 1st 2 figures are actual values and the 3rd denotes the number of zero.
 "R" denotes the decimal point and all figures are the actual number with "R".
 Example : ERDS2TJ471 → CARBON RESISTOR
 1/4W 470 Ω

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01588B	P.C.BOARD W/COMPONENT POWER (1)	1	(RTL)<R>
	VEP01589A	P.C.BOARD W/COMPONENT POWER (2)	1	(RTL)<R>
	VEP04427D	P.C.BOARD W/COMPONENT REAR JACK	1	(RTL)<R>
	VEP00U79B	P.C.BOARD W/COMPONENT REAR JACK SUB	1	(RTL)<R> FOR VEP04427D
	VEP04429D	P.C.BOARD W/COMPONENT AUDIO	1	(RTL)<R>
	VEP05176C	P.C.BOARD W/COMPONENT HEAD AMP	1	(RTL)<R>
	VEP06914E	P.C.BOARD W/COMPONENT FRONT	1	(RTL)<R>
	VEP06916C	P.C.BOARD W/COMPONENT FRONT JACK	1	(RTL)<R> FOR VEP06914E
	VEP06915E	P.C.BOARD W/COMPONENT MAIN	1	(RTL)<R>
	VEP03920C	P.C.BOARD W/COMPONENT SQPB	1	(RTL)<R> FOR VEP06915E
	VEP06974A	P.C.BOARD W/COMPONENT POWER DETECT	1	(RTL)<R> FOR VEP06915E
	VEP00S63C	P.C.BOARD W/COMPONENT MECHANISM CONNECTION	1	(RTL)<R>



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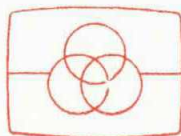
ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs
*****	[VEP01588B]		*****	[VEP01589A]		C4513, 14	ECEA1APZ101	2	L4507	VLQEL055101J	1	R4570	ERJ66EYJ153	1
	POWER (1)			POWER (2)		C4515, 16	ECUM1H104ZFN	2				R4571	ERJ66EYJ272	1
						C4517, 18	ECEA1CPZ330	2	P4501-03	VJS3186B018	3	R4572	ERJ66EYJ562	1
C1007	ECQU2A104MM	1 !	C1001	VCC0024	1 !	C4520	ECUM1H104ZFN	1	Q4501	2SB710A-R	1	R4573	ERJ66EYJ153	1
C1008	ECQU2A154MM	1 !	C1002, 03	VCK0046	2 !	C4521, 22	ECEA1HPZ3R3	2	Q4503, 04	2SD1328-R	2	R4574	ERJ66EYJ102	1
C1009	ECEC2GC680BB	1	C1004	VCC0024	1 !	C4523	ECEA1APZ101	1	Q4505	2SB561	1			
C1010	VCC0024	1 !	C1005, 06	VCK0046	2 !	C4524	ECEA1EBZ4R7	1	Q4506	2SD655	1	T4501	EIQ7QF013Q	1
C1011, 12	VCK0046	2 !	L1005	ELF18D221F	1 !	C4525	ECQB1H223JF	1	Q4507	2SD1328-R	1	T4502	EIQ7QF012Q	1
C1013	VCK0106K121	1				C4526	ECEA1APZ470	1	Q4508	2SB710	1			
C1014	ECQE6473KF	1				C4527	ECQB1H103JF	1	Q4509	2SD639-R	1	VR4501	EVMF6SA00B53	1
C1015	ECA1VXLV470	1				C4528	ECQB1H332JF	1	Q4510	2SB710	1	VR4502	EVMF6SA00B24	1
C1016	ECEA1CFE560	1	*****	[VEP04427D]		C4529	ECUM1H561JCN	1	Q4511	2SD639-R	1	VR4503	EVMF6SA00B53	1
C1017	ECKD2H101KB	1		REAR JACK		C4530	ECEA1HPZ4R7	1	QR4501	MRN2404	1	VR4504	EVMF6SA00B24	1
C1018, 19	ECEA1DFZ681	2		[VEP00U79B]		C4531	ECUM1H561JCN	1	QR4502-07	MRN1404	6	VR4505	EVMF6SA00BY3	1
C1020	ECKD2H101KB	1		REAR JACK SUB		C4532	ECUM1H681JCN	1	QR4508	MRN2404	1			
C1021, 22	ECEA1AFZ681	2				C4533	ECUM1H104ZFN	1						
C1023	ECQV1H124JZ	1	C6901	ECQB1H103JF	1	C4534	ECEA1APZ101	1						
C1024	ECKF1H101KB	1	C6903	ECQB1H182JF	1	C4535	ECUM1E473KBN	1						
C1025	ECQB1H103JF	1	C6904	ECQB1H103JF	1	C4536	ECUM1C224ZFN	1	R4501	ERJ66EYJ104	1			
C1026	ECA0GXLV331	1	C6906	ECEA1AKA330	1	C4537	ECUM1H103ZFN	1	R4502	ERJ66EYJ103	1			
C1027	ECKF1H102KB	1	C6906	ECEA1AKA330	1	C4538	ECUM1H471JCN	1	R4503	ERJ66EYJ363	1	C503	ECUM1C105ZFN	1
C1028	ECKF1H271KB	1	C6951	ECEA1AKS101I	1	C4539	ECEA1HUR47	1	R4504	ERJ66EYJ104	1	C505	ECUM1H103ZFN	1
						C4540	ECUM1H102JCN	1	R4505	ERJ66EYJ363	1	C506	ECUM1H103ZFN	1
						C4541	ECUM1E473KBN	1	R4506	ERJ66EYJ363	1	C507	ECUM1H103ZFN	1
D1001	S1WBA60S	1 !	D6901	11EQS04	1	C4542	ECEA1APZ101	1	R4507	ERJ66EYJ183	1	C508	ECUM1H103ZFN	1
D1002	AP01C	1	D6904	MA165VT	1	C4543	ECUM1H104ZFN	1	R4512	ERJ66EYJ363	1	C509	ECUM1H332KBN	1
D1003	MA178	1	D6905	RD7.5EB	1	C4544	ECEA1HPZ4R7	1	R4513	ERJ66EYJ183	1	C510	ECUM1H104ZFN	1
D1004	MA4200-H	1	D6951	MA151K	1	C4545	ECUM1H681JCN	1	R4514	ERJ66EYJ152	1	C511	ECUM1H104ZFN	1
D1005	MA185	1				C4546, 47	ECUM1H561JCN	2	R4515, 16	ERJ66EYJ103	2	C512	ECUM1H102KBN	1
D1006	RL4Z	1	IC6901	LM393P	1	C4548	ECEA1EBZ4R7	1	R4517	ERJ66EYJ472	1	C513	ECUM1H104ZFN	1
D1007	31DQ04	1				C4549	ECQB1H223JF	1	R4518	ERJ66EYJ104	1	C514	ECUM1H103ZFN	1
D1008	MA723VT	1	J6901, 02	VJS3154	2	C4550	ECEA1APZ470	1	R4520, 21	ERJ66EYOR00	2	C515	ECUM1H104ZFN	1
			J6904-06	VJJ0323	3	C4551	ECQB1H103JF	1	R4522, 23	ERJ66EYJ222	2	C516	ECUM1H104ZFN	1
						C4552	ECQB1H332JF	1	R4524-26	ERJ66EYJ473	3	C517	ECUM1H103ZFN	1
IC1001	STRM6545	1 !	P6901, 02	VJP1410	2	C4553, 54	ECEA1CPZ100	2	R4527	ERJ66EYJ104	1	C518	ECUM1H103ZFN	1
IC1002	SI3120CA	1	Q6951, 52	MSC2295-B	2	C4555	ECEA1APZ470	1	R4528	VRE0034E153	1	C519	ECUM1H104ZFN	1
IC1003	TL431CLP	1				C4556	ECEA1CPZ470	1	R4529	ERJ66EYJ472	1	C520	ECUM1H104ZFN	1
						C4557	ECQB1H822JF	1	R4530	ERJ66EYJ224	1	C521	ECUM1H103ZFN	1
L1006	ELF18D290A	1 !	R6901	ERDS2TJ750	1	C4558	ECEA10M22	1	R4531	ERJ66EYJ303	1	C523	ECUM1H103ZFN	1
L1009	EXCELSA35	1	R6902	ERDS2TJ562	1	C4559	ECEA1CBZ100	1	R4532	ERJ66EYJ222	1	C524	ECUM1H103ZFN	1
L1010	VLQEL055101J	1	R6903	ERDS2TJ103	1	C4560, 61	ECUM1H102JCN	2	R4533	ERJ66EYJ103	1	C525	ECUM1H103ZFN	1
L1011	VLQ0410	1	R6909	ERDS2TJ104	1	C4562	ECUM1C105ZFN	1	R4534	VRE0034E36C	1	C526	VCEA0JAC221	1
L1012	VLQ0579	1	R6913	ERDS2TJ104	1	C4563	ECUV1H182JCN	1	R4535, 36	ERJ66EYJ152	2	C527	ECUM1H102KBN	1
L1013	VLP0083	1	R6917	ERDS2TJ104	1	C4564	ECQB1H333JF	1	R4537	ERJ66EYJ562	1	C540	ECEA1CK470	1
L1014	VLP0074	1	R6918	ERDS2TJ473	1	C4565	ECUM1C105ZFN	1	R4538	VRE0034E153	1	C551	ECUM1H102KBN	1
			R6920	ERDS2TJ102	1	C4566	ECQB1H103JF	1	R4539	ERJ66EYJ334	1	C552	ECUM1H103ZFN	1
P1001	VJP3091	1	R6921	ERDS2TJ564	1	C4567	ECQB1H562JF	1	R4540	VRE0034E333	1	C553	ECUM1H103ZFN	1
			R6922	ERDS2TJ103	1	C4568	ECQB1H153JF	1	R4541	ERJ66EYJ182	1	C554	ECUM1H103ZFN	1
Q1001	PS2561L1V1	1 !	R6923	ERDS2TJ562	1	C4569, 70	ECEA1CKA100	2	R4542	ERJ66EYJ303	1	C555	ECEA0JPK221	1
			R6924	ERDS2TJ104	1	C4571	ECEA1HKNO10	1	R4543	VRE0034E113	1	C556	ECUM1H103ZFN	1
R1001	ERDS2FJ103	1	R6925	ERDS2TJ103	1	C4572	ECEA1CKA220	1	R4544	ERJ66EYJ224	1	C557	ECUM1H103ZFN	1
R1002	ERC12GM334	1 !	R6926	ERDS2TJ333	1	C4573	ECQB1H102JF	1	R4545	ERJ66EYJ472	1	C559	ECUM1C105ZFN	1
R1004	ERF2TK2R2	1	R6927, 28	ERDS2TJ103	2	C4574	ECQB1H103JF	1	R4546	ERJ66EYJ473	1	C560	ECUM1H471JCN	1
R1005	ERG3SJ683	1	R6951, 52	ERJ66EYJ154	2	C4575	ECCD2H121K	1	R4547	ERJ66EYOR00	1	C561	ECUM1H471JCN	1
R1006, 07	ERDS2FJ224	2	R6953	ERJ66EYJ684	1	C4576	ECQB1H222JF	1	R4548	ERJ66EYJ333	1	C562	ECUM1H101JCN	1
R1008	ERDS2FJ221	1	R6954	ERJ66EYJ334	1	C4577	ECEA1CKA100	1	R4549	ERJ66EYJ133	1	C563	ECUM1H101JCN	1
R1009	EROS2CKG62R0	1	R6955	ERJ66EYJ154	1	C4578	ECQB1H472JF	1	R4550	ERJ66EYJ562	1	C564	ECUM1C105ZFN	1
R1010	EROS2CKG3001	1				C4579	ECQB1H103JF	1	R4551	ERJ66EYJ822	1	C565	ECUM1H101JCN	1
R1011	EROS2TKF2701	1	SW6901	VSS0317	1	C4580	ECQB1H333JF	1	R4552	ERJ66EYJ394	1	C566	ECUM1H104ZFN	1
R1012	ERDS2TJ561	1	SW6902-04	VSS0217	3				R4553	ERJ66EYJ331	1	C567	ECUM1H102KBN	1
R1013	ERDS2TJ272	1	SW6905-07	VSS0216	3				R4554	ERJ66EYJ621	1	C569	ECUM1C105ZFN	1
R1014	EROS2TKF2701	1							R4555	ERJ66EYJ473	1			
R1015	EROS2CKG1502	1	VR6901, 02	EVND4AA00B15	2				R4556	ERJ66EYJ123	1	IC501	AN3336SB	1
R1016	ERDS2TJ271	1							R4557	ERJ66EYJ203	1	IC551	BA7743FS	1
R1017	ERDS2FJ224	1							R4558	ERJ66EYJ392	1			
R1018	ERDS2FJ101	1							R4559	ERJ66EYJ183	1	K501	ERJ66MZOR00	1
R1019	ERDS2FJ152	1	*****	[VEP04429D]					R4560	ERJ66EYJ470	1	K502	ERJ66MZOR00	1
R1020	ERX1SJR82	1		AUDIO					R4561	ERJ66EYJ331	1	K503	ERJ66MZOR00	1
R1021, 22	ERDS2FJ471	2							R4562	ERJ66EYJ101	1	K504	ERJ66MZOR00	1
R1023	ERDS1TJ395	1	C4501	ECEA1CKA100	1	J4502-04	ERJ66EYOR00	3	R4563	ERJ66EYJ471	1	K505	ERJ66MZOR00	1
R1024	ERDS1TJ475	1	C4502, 03	ECEA1HKA010	2	J4506	ERJ66EYOR00	1	R4564	ERJ66EYJ562	1	K506	ERJ66MZOR00	1
			C4504	ECEA1CKA100	1				R4565, 66	ERJ66EYJ223	2	K551	ERJ66MZOR00	1
			C4505	ECEA1CKA101	1	L4501	VLQEL055101J	1	R4567	ERJ66EYJ103	1			
			C4509	ECEA1CPZ470	1	L4503, 04	VLQEL055101J	2	R4568	ERJ66EYJ272	1	L501	VLQ0540K330	1
			C4511	ECUM1H103ZFN	1	L4505	VLQEL07F153J	1	R4569	ERJ66EYJ562	1	L502	VLQ0540K330	1
			C4512	ECEA1CPZ470	1	L4506	VLQEL05T102J	1						

Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs
D6008	11EQS04	1	L3519	VLQEL05K120J	1	QR3013,14	MRN1404	2	R3023,24	ERJ66EYJ273	2	R3539	ERJ66EYJ222	1
D6010	MA151K	1	L3520	VLQEL05K150J	1	QR3501	MRN1404	1	R3025	ERJ66EYJ122	1	R3540	ERJ66EYJ561	1
D6101	11EQS04	1	L3522	VLQEL05K221J	1	QR3505	MRN1402	1	R3026	ERJ66EYJ152	1	R3542	ERJ66EYJ822	1
D6201	8P2M	1	L3523	VLQEL05K681J	1	QR3506	MRN2402	1	R3027	ERJ66EYJ223	1	R3543	ERJ66EYJ272	1
D6202	MA4062M	1	L3524	VLQEL05K391J	1	QR3507	DTC363EK	1	R3028	ERJ66EYJ681	1	R3544	ERJ66EYJ103	1
			L3525	VLQEL05K470J	1	QR3509,10	XN1213	2	R3029	ERJ66EYJ102	1	R3545	ERJ66EYJ183	1
DL3002	VLD0089	1	L3526	VLQEL05K560J	1	QR3514	DTC363EK	1	R3030	ERJ66EYJ271	1	R3547	ERJ66EYJ333	1
DL3501	VLD0147	1	L3531	VLQEL05K270J	1	QR3515	MRN1403	1	R3031	ERJ66EYJ122	1	R3548	ERJ66EYJ473	1
			L3532	VLQEL05K5R6J	1	QR3517	MRN1404	1	R3032	ERJ66EYJ123	1	R3549	ERJ66EYJ222	1
FL3002	VLF0499	1	L4001	VLQEL05K101J	1	QR3518	XN1113	1	R3033	ERJ66EYJ822	1	R3550	ERJ66EYJ330	1
FL3004	ELB4M022	1	L5001	VLQEL05F101J	1	QR3519	XN1213	1	R3034	ERJ66EYJ102	1	R3551	ERJ66EYJ182	1
FL3501	VLF0727	1	L5002	VLQ0188J270	1	QR6001	XN1211	1	R3035	ERJ66EYJ471	1	R3552	ERJ66EYJ471	1
FL3502	VLF0299	1	L5003	VLQEL05F270J	1	QR6005,06	XN1213	2	R3037	ERJ66EYJ471	1	R3553	ERJ66EYJ102	1
			L5004	VLQEL05F150J	1	QR6008	MRN1404	1	R3052	ERJ66EYJ391	1	R3554	ERJ66EYJ273	1
IC2001	AN3727S	1	L6002	VLP0083	1	QR6101	MRN1402	1	R3054	ERJ66EYJ824	1	R3555	ERJ66EYJ183	1
IC2004	LM358PS-R	1	L6003	VLQ0460	1				R3055,56	ERJ66EYJ102	2	R3556	ERJ66EYJ472	1
IC2302	BA6439S	1	L6004-07	VLQEL05K221J	4	R2001	ERJ66EYJ562	1	R3057	ERJ66EYJ152	1	R3557	ERJ66EYJ682	1
IC2303	MN1280-U	1				R2002	ERJ66EYJ682	1	R3058	ERJ66EYJ103	1	R3560	ERJ66EYJ821	1
IC2304	LM393PS	1	P2301	VJP3078	1	R2003	ERJ66EYJ273	1	R3059	ERJ66EYJ273	1	R3561	ERJ66EYJ221	1
IC2305,06	UPC4556G2	2	P2302	VJS3537A015G	1	R2004	ERJ66EYJ563	1	R3060	ERJ66EYJ333	1	R3562	ERJ66EYJ103	1
IC3001	VEFH03D	1	P2303	VJP3529	1	R2005,06	ERJ66EYJ223	2	R3061	ERJ66EYJ102	1	R3564	ERJ66EYJ182	1
IC3003,04	NJM2233BMA	2	P3501	VJS3537A020G	1	R2007	ERJ66EYJ272	1	R3063	ERJ66EYJ103	1	R3565	ERJ66EYJ473	1
IC3006	AN3495K	1	P4001-03	VJP3186A018W	3	R2008	ERJ66EYJ221	1	R3064	ERJ66EYJ332	1	R3566	ERJ66EYJ102	1
IC3501	MN74HC4053S	1	P4004	VJS2329	1	R2009	ERJ66EYJ622	1	R3065	ERJ66EYJ101	1	R3567	ERJ66EYR000	1
IC3502	MSM6965-3RS	1	P6001	VJS3537A013G	1	R2011,12	ERJ66EYJ224	2	R3069	ERJ66EYJ102	1	R3568,69	ERJ66EYJ103	2
IC3503	VEFH04F	1	P6002	VJP1229T	1	R2013,14	ERJ66EYJ223	2	R3071	ERJ66EYJ122	1	R3572	ERJ66EYJ102	1
IC4001	NJM4558M	1	P6003	VJP3079	1	R2015	ERJ66EYJ104	1	R3072	ERJ66EYJ273	1	R3574	ERJ66EYJ271	1
IC4002	BA6138	1	P6004	VJS3537A012G	1	R2017	ERJ66EYJ471	1	R3073	ERJ66EYJ561	1	R3575	ERJ66EYJ102	1
IC6001	MN67434VMEC	1	P6005	VJS3537A020G	1	R2027	ERJ66EYJ473	1	R3074	ERJ66EYJ473	1	R3576	ERJ66EYJ222	1
IC6002	LM358PS-R	1	P6007,08	VJS1410	2	R2030	ERJ66EYJ683	1	R3075	ERJ66EYJ821	1	R3579	ERJ66EYJ682	1
IC6003	BA6219B	1	P6201	VJR0406	1	R2306	ERJ66EYJ332	1	R3076	ERJ66EYJ681	1	R3580	ERJ66EYJ123	1
IC6004	MN1280R	1				R2310	ERJ66EYJ432	1	R3083	ERJ66EYJ822	1	R3581	ERJ66EYJ473	1
IC6006	TC7W00F	1	PS5001	VJR0406	1	R2311	ERJ66EYJ684	1	R3084	ERJ66EYJ333	1	R3582	ERJ66EYR000	1
						R2312	ERJ66EYJ473	1	R3086	ERJ66EYJ222	1	R3585	ERJ66EYJ473	1
J2301-05	ERJ66EYR000	5	Q3001	MSB709-R	1	R2313	ERDS2TJ330	1	R3087	ERJ66EYJ102	1	R3588	ERJ66EYJ222	1
J3008	ERJ66EYR000	1	Q3002	MSD601-R	1	R2314	ERJ66EYJ102	1	R3091	ERJ66EYJ103	1	R3589	ERJ66EYJ681	1
J3014-16	ERJ66EYR000	3	Q3003	MSC2295-B	1	R2315	ERDS2TJ330	1	R3092	ERJ66EYJ332	1	R3590	ERJ66EYJ561	1
J3018	ERJ66EYR000	1	Q3004	MSD601-R	1	R2316	ERX125JR47	1	R3093	ERJ66EYJ183	1	R3591	ERJ66EYJ473	1
J3020	ERJ66EYR000	1	Q3010	MSB709-R	1	R2317	ERDS2TJ330	1	R3094	ERJ66EYJ103	1	R3592	ERJ66EYJ431V	1
J3023	ERJ66EYR000	1	Q3011	MSD601-R	1	R2318	ERJ66EYJ681	1	R3109	ERJ66EYJ103	1	R3593	ERJ66EYJ561	1
J3501-03	ERJ66EYR000	3	Q3013	2SA1022-B	1	R2321	ERJ66EYJ103	1	R3110	ERJ66EYJ330	1	R3596	ERJ66EYR000	1
J3505	ERJ66EYR000	1	Q3014,15	MSC2295-B	2	R2322	ERJ66EYJ224	1	R3111	ERJ66EYJ222	1	R3600,01	ERJ66EYJ102	2
J3507,08	ERJ66EYR000	2	Q3501,02	MSD601-R	2	R2323	ERJ66EYJ103	1	R3112	ERJ66EYJ103	1	R3605	ERJ66EYJ103	1
J4001,02	ERJ66EYR000	2	Q3503,04	MSC2295-B	2	R2324	ERJ66EYJ224	1	R3113	ERJ66EYJ223	1	R3606	ERJ66EYJ102	1
J6003,04	ERJ66EYR000	2	Q3505,06	MSB709-R	2	R2325-28	ERJ66EYJ103	4	R3114	ERJ66EYJ122	1	R3609	ERJ66EYJ182	1
J6007	ERJ66EYR000	1	Q3507	MSD601-R	1	R2329,30	ERJ66EYJ473	2	R3118	ERJ66EYR000	1	R3610	ERJ66EYJ101	1
J6101	ERJ66EYR000	1	Q3508	2SB642	1	R2331	ERJ66EYJ472	1	R3120	ERJ66EYR000	1	R3611	ERJ66EYJ472	1
			Q3509	2SB643	1	R2332	ERJ66EYJ333	1	R3501,02	ERJ66EYJ102	2	R3613	ERJ66EYR000	1
L2001-03	VLQ0460	3	Q3510	MSC2295-B	1	R2333	ERJ66EYJ332	1	R3503	ERJ66EYJ104	1	R4001,02	ERJ66EYJ561	2
L2301	VLQ0460	1	Q3511	MSD601-R	1	R2334	ERJ66EYJ472	1	R3504	ERJ66EYJ561	1	R4003	ERJ66EYJ100	1
L2303	VLP0083	1	Q3512	MSC2295-B	1	R2335	ERJ66EYJ333	1	R3507	ERJ66EYJ102	1	R4004	ERJ66EYJ273	1
L2304	VLQ0460	1	Q3514	MSD601-R	1	R2336	ERJ66EYJ332	1	R3509	ERJ66EYJ473	1	R4007,08	ERJ66EYJ182	2
L2305	VLQEL05K102J	1	Q3516	MSC2295-B	1	R2337	ERJ66EYJ102	1	R3510	ERJ66EYJ102	1	R4009,10	ERJ66EYJ562	2
L3001	VLQEL05K680J	1	Q3517,18	MSB709-R	2	R2338	ERJ66EYJ105	1	R3511	ERJ66EYJ330	1	R4011,12	ERJ66EYJ104	2
L3002	VLQEL05K121J	1	Q5001	MSB709-R	1	R2339	ERJ66EYJ821	1	R3512	ERJ66EYJ473	1	R4013,14	ERJ66EYJ103	2
L3003	VLQ0460	1	Q5002	MSD601-R	1	R2340	ERJ66EYJ222	1	R3513	ERJ66EYJ222	1	R5003	ERJ66EYJ102	1
L3004	VLQEL05K101J	1	Q5003	2SA1022-B	1	R2341	ERDS1TJ561B	1	R3514	ERJ66EYJ333	1	R5004	ERJ66EYJ271	1
L3005	VLQ0460	1	Q5005	XN1501	1	R2342,43	ERJ66EYJ102	2	R3515-18	ERJ66EYJ473	4	R5005	ERJ66EYJ472	1
L3008	VLQ0460	1	Q5006	MSB709-R	1	R3004	ERJ66EYJ223	1	R3519	ERJ66EYJ333	1	R5006	ERJ66EYF124	1
L3009,10	VLQEL05K150J	2	Q5007	MSC2295-B	1	R3005	ERJ66EYJ102	1	R3520	ERJ66EYJ222	1	R5007	ERJ66EYJ223	1
L3012	VLQEL05K220J	1	Q5008	MSB709-R	1	R3006	ERJ66EYJ223	1	R3521	ERJ66EYJ103	1	R5012	ERJ66EYJ563	1
L3013	VLQ0460	1	Q5009-13	MSC2295-B	5	R3007	ERJ66EYF124	1	R3522	ERJ66EYJ222	1	R5013	ERJ66EYJ123	1
L3015	VLQEL05K560J	1	Q6001	MSB709-R	1	R3008	ERJ66EYJ102	1	R3523	ERJ66EYJ102	1	R5014	ERJ66EYJ223	1
L3017	VLQEL05K470J	1	Q6004	2SD601A	1	R3009	ERJ66EYJ182	1	R3524	ERJ66EYJ272	1	R5016,17	ERJ66EYJ102	2
L3502	VLQEL05K820J	1	Q6101	2SB644-S	1	R3010	ERJ66EYJ332	1	R3525	ERJ66EYJ103	1	R5018	ERJ66EYJ123	1
L3503	VLQEL05K151J	1				R3011	ERJ66EYJ182	1	R3526	ERJ66EYJ223	1	R5019	ERJ66EYJ682	1
L3504-06	VLQ0460	3	QR2001	XN1213	1	R3012	ERJ66EYJ103	1	R3527	ERJ66EYJ104	1	R5020	ERJ66EYJ102	1
L3508	VLQEL05K151J	1	QR2301	MRN2404	1	R3013	ERJ66EYJ272	1	R3528	ERJ66EYR000	1	R5021,22	ERJ66EYJ681	2
L3509	VLQEL05K270J	1	QR2302	MRN1404	1	R3014	ERJ66EYJ123	1	R3529,30	ERJ66EYJ821	2	R5023	ERJ66EYJ271	1
L3510	VLQEL05K470J	1	QR3001	MRN1404	1	R3015	ERJ66EYJ222	1	R3533	ERJ66EYJ222	1	R5025	ERJ66EYJ102	1
L3511	VLQ0460	1	QR3005	MRN1403	1	R3017,18	ERJ66EYJ331	2	R3534	ERJ66EYJ330	1	R5027	ERJ66EYJ391	1
L3514	VLQEL05K681J	1	QR3006	MRN2403	1	R3019	ERJ66EYJ750	1	R3535	ERJ66EYJ473	1	R5028,29	ERJ66EYJ102	2
L3515,16	VLQ0460	2	QR3007	MRN1403	1	R3020	ERJ66EYR000	1	R3536	ERJ66EYJ682	1	R5030	ERJ66EYJ471	1
L3517	VLQEL05K6R8J	1	QR3009	DTC363EK	1	R3021	ERJ66EYJ471	1	R3537	ERJ66EYJ820	1	R5031	ERJ66EYJ102	1
L3518	VLQEL05K101J	1	QR3010-12	MRN1403	3	R3022	ERJ66EYJ562	1	R3538	ERJ66EYJ680	1	R6001	EROS2CK2000	1

Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs	Ref.No.	Part No.	Pcs
R6002	ERJ6GEYJ271	1	X6001	VSX0296	1									
R6003,04	ERJ6GEYJ272	2												
R6005	ERJ6GEYG244V	1												
R6006	ERJ6GEYJ153	1												
R6007	ERJ6GEYJ333	1	*****	[VEPO0S63C]										
R6008	ERX1S1R8P	1		MECHANISM										
R6009	ERJ6GEYG112	1		CONNECTION										
R6010	ERJ6GEYJ102	1												
R6011	VRE0034E103	1	IC1501,02	0N1387	2									
R6012	ERJ6GEYJ332	1	P1503	VJS3316A002	1									
R6013	VRE0034E103	1	P1504	VJS3317A004	1									
R6014	ERJ6GEYJ564	1	P1505	VJS3493	1									
R6015	VRE0034E512	1	SW1501	VES0695	1									
R6016	ERJ6GEYJ103	1												
R6017	ERJ6GEYJ471	1												
R6018	ERJ6GEYJ222	1												
R6019	ERJ6GEYJ683	1												
R6020,21	ERJ6GEYJ223	2												
R6022	ERJ6GEYJ103	1												
R6023	ERJ6GEYJ683	1												
R6024-26	ERJ6GEYJ333	3												
R6027	ERJ6GEYJ223	1												
R6028-34	ERJ6GEYJ102	7												
R6035	ERJ6GEYJ223	1												
R6036-38	ERJ6GEYJ102	3												
R6039	ERJ6GEYJ272	1												
R6040	ERJ6GEYJ221	1												
R6041	ERJ6GEYJ272	1												
R6042	ERJ6GEYJ221	1												
R6045	ERJ6GEYJ333	1												
R6052-55	ERJ6GEYJ103	4												
R6056,57	ERJ6GEYJ471	2												
R6058	ERJ6GEYOR00	1												
R6059	ERJ6GEYJ471	1												
R6061	ERJ6GEYJ222	1												
R6066	ERJ6GEYJ103	1												
R6067	ERJ6GEYJ562	1												
R6068	VRE0034E472	1												
R6069	ERJ6GEYJ333	1												
R6070	ERJ6GEYJ103	1												
R6101	ERDS2TJ103	1												
R6104	ERDS2TJ121	1												
R6105	ERJ6GEYJ102	1												
R6114	ERJ6GEYJ472	1												
R6201	ERDS2TJ101	1												
R6202	ERDS2TJ102	1												
VR2001	EVMF6SA00B23	1												
VR2002	EVMF6SA00B15	1												
VR2004	EVMF6SA00B15	1												
VR2006-08	EVMF6SA00B15	3												
VR3001	EVMF6SA00B24	1												
VR3002	EVMF6SA00B13	1												
VR3004	EVMF6SA00B52	1												
VR3005	EVMF6SA00B13	1												
VR3007	EVMF6SA00B52	1												
VR3008	EVMF6SA00B24	1												
VR3501	EVMF6SA00B23	1												
VR3502	EVMF6SA00B14	1												
VR3503	EVMF6SA00B52	1												
VR3504,05	EVMF6SA00B53	2												
VR3506	EVMF6SA00B52	1												
VR4001	EVMF6SA00B54	1												
VR4002,03	EVMF6SA00B23	2												
VR4004,05	EVMF6SA00B53	2												
VR4006	EVMF6SA00B54	1												
W1	ERJ6GEYOR00	1												
W2	ERJ6GEYOR00	1												
W2, W3	ERJ6GEYOR00	2												
W3-W9	ERJ6GEYOR00	7												
W10-21	ERJ6GEYOR00	12												
X3501	VSX0225	1												
X3502	VSX0162	1												

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01588B	P.C. BOARD POWER (1)							
	VMC0811	SPRING	1						
	VMZ1608	BARRIER	1						
	VSC3778	SHIELD CASE	1						
	VMZ1305	BARRIER	2						
	VMZ0965	BARRIER	2						
	VEP01589A	P.C. BOARD POWER (2)							
	VMZ1608	BARRIER	2						
	VJF0318	HOLDER	2						
	VMZ0965	BARRIER	4						
	VEP04427D	P.C. BOARD REAR JACK							
	VEP00U79B	P.C. BOARD REAR JACK SUB							
	VJH0744	JACK PLATE	1						
	XTV3+8FFZ	SCREW	2						
	XTV3+10GFZ	SCREW	3						
	VEP06914E	P.C. BOARD FRONT							
	VEP06916C	P.C. BOARD FRONT JACK							
	VJF0948	HOLDER	1						
	VMX0473	SPACER	3						
	VEP06915E	P.C. BOARD MAIN							
	VEP03920C	P.C. BOARD SQPB							
	VEP06974A	P.C. BOARD POWER DETECT							
	VKC0295	P.C.B. SPACER	2						
	VKC0421	P.C.B. HINGE	3						
	VKC0422	GUARD SPACER	2						
	VMC0075	SPRING	1						
	VSC3405	SHIELD CASE	1						



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