ORDER NO. VSD9109M615

Service Manual

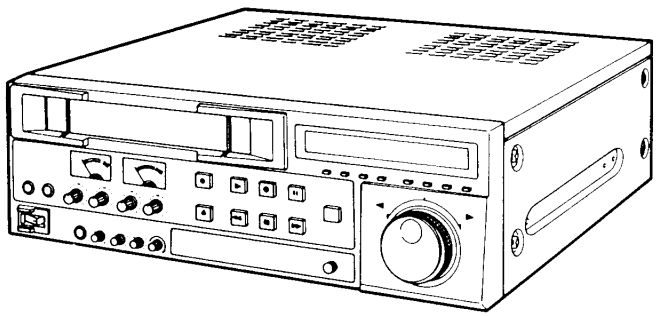
Panasonic
Professional/Industrial Video
S-VHS 625 VHS PAL Hi-Fi

Editing Video Cassette Recorder

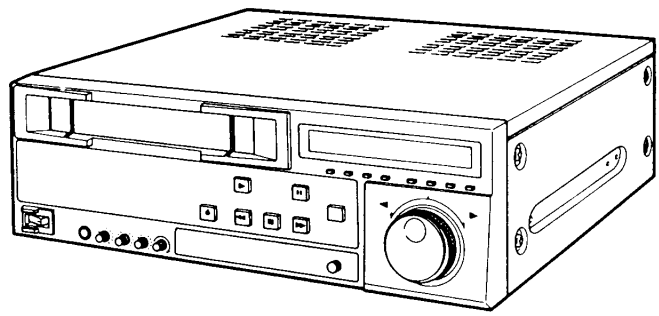
AG-7350-E-B

Editing Video Cassette Player

AG-7150-E-B



AG-7350



AG-7150

Panasonic

SPECIFICATIONS AG-7350 [AG-7150]

ITEM	SPECIFICATION
Power	Source: AC 120 ~ 240V, 50 ~ 60Hz Consumption: Approx. 50W [Approx. 44W]
Television Format	CCIR standard (625 lines, 50 fields) PAL colour signal, moditied SECAM colour signal 4.43MHz modified NTSC colour signal
Tape Speed	23.39mm/s (PAL, modified SECAM), 33.35mm/s (Modified NTSC)
Tape Format	S-VHS tape, VHS tape
FF/REW Time	Approx. 2min. with NV-E180
Video	Head: 4 rotary heads, 2 head-helical scanning system 49μm (NOR) × 2, 35μm (SS) × 2 1 flying (rotary) erase head 97μm × 2 (AG-7350)
	Luminance: FM azimuth recording
	Color signal: Converted subcarrier phase shift recording
	Input level: LINE IN (BNC): (AG-7350 only) 1.0Vp-p, 75Ω unbalanced S-VIDEO IN (4P): (AG-7350 only) Y; 1.0Vp-p, 75Ω unbalanced C; 0.286Vp-p, burst level 75Ω unbalanced EXT. SYNC (BNC): 4.0Vp-p, (negative pulse) 75Ω unbalanced
	Output level: LINE OUT (BNC): 1.0Vp-p 75Ω, unbalanced × 2 S-VIDEO OUT (4P): Y; 1.0Vp-p 75Ω, unbalanced C; 0.286Vp-p, burst level 75Ω unbalanced
	Signal-to-Noise Ratio (VHS): B/W; 45dB Color, 45dB
	Horizontal Resolution: B/W; more than 400 lines (S-VHS), 300 lines (VHS) Color; more than 400 lines (S-VHS), 240 lines (VHS)
TIME Code (CH2)	Input level (PHONO): 1.0Vp-p, 10kΩ unbalanced (AG-7350) Output level (PHONO): 2.4Vp-p, low impedance unbalanced

ITEM	SPECIFICATION
Audio	Head: Normal Audio/Control: 1 stationary head Hi-Fi Audio: 2 rotary heads; 36μm × 2 Erase: 1 full track erase 1 Audio track erase
	Track: 4 tracks (Normal: 2 tracks, Hi-Fi: 2 tracks)
	Input level: LINE IN Hi-Fi (PHONO): 8dBv, 47kΩ unbalanced × 2 (AG-7350 only) LINE IN NORMAL/Hi-Fi (PHONO): 8dBv, 47kΩ unbalanced × 2 (AG-7350 only) MIC IN (1/4"): −60dBv, 4.7kΩ unbalanced × 2 (AG-7350 only)
	Output level: LINE OUT Hi-Fi (PHONO): 8dBv, 600Ω unbalanced × 2 LINE OUT NORMAL/Hi-Fi (PHONO): −8dBv, 600Ω unbalanced × 2 HEADPHONES (1/4"): −60dBv ~ 20dBv, 8Ω unbalanced MONITOR OUT (PHONO): 0dBv, 600Ω unbalanced
	Frequency Response: Normal: 50Hz ~ 12kHz Hi-Fi: 20Hz ~ 20kHz
	Hi-Fi Dynamic Range: more than 90dB
	Signal-to Noise Ratio: better than 48dB (Normal) (with Dolby NR switch ON)
Operating Condition	Temperature; 5°C ~ 40°C (during operation) Humidity; 35% ~ 80%
Dimensions	424mm (W) × 131.5mm (H) × 424mm (D)
Weight	Approx. 11kg [Approx. 10.8kg]
Standard Accessories	34P Interface Adaptor (Mounted on the unit) Power Cord S-VHS cable (4P)
Optional Accessories	RS-232C Interface Adaptor (AG-IA232TC) Remoto Controller (AG-A600) 4P S-VIDEO Cable (AG-C71A, AG-C70A) Rack Mount Adaptor (AG-M730)

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

INTRODUCTION

This Service Manual contains all the technical information which allow service personnel to understand and service the Panasonic S-VHS Cassette recorder model AG-7350-E/B, video cassette player model AG-7150-E/B.

These models are developed for applications in industry and educational establishments and in addition, it has an optional accessory RS-232C interface is a capable of satellite communication. By the use S-VHS system, a sharp picture quality with high resolution is obtained, and advanced editing by easy operation is realized by the introduction of high reliability mechanism.

CONTENTS

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 0.15uF 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.

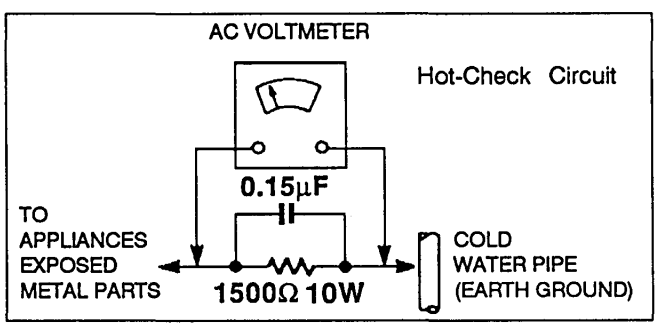


Figure 1

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.

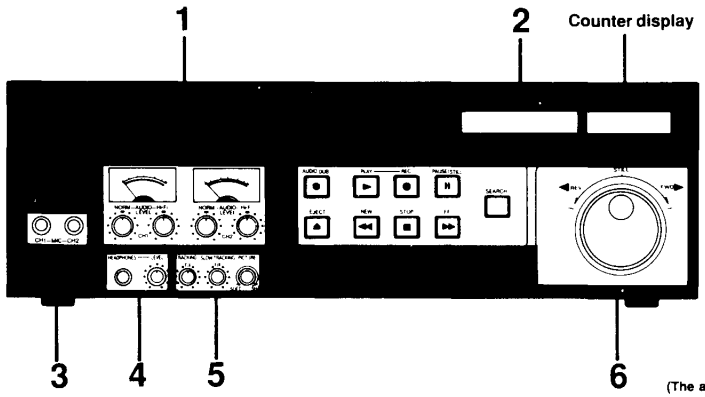
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential 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 untilimmediately before you are ready to install it. (Most replacementES devices are packaged with leads eletcrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all otner asfety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

Section 1

OPERATING INSTRUCTIONS

CONTENTS

1-1. Front Panel Parts



(The above illustration is AG-7350.)

1 Level control area (AG-7350 only)

Audio (CH1) level meter ..... Displays CH1 audio level.
Audio (CH2) level meter ..... Displays CH2 audio level or tracking level.
Audio (CH1) NORMAL LEVEL control ..... Adjusts recording level for normal audio CH1.
Audio (CH1) Hi-Fi LEVEL control ..... Adjusts recording level for Hi-Fi audio CH1.
Audio (CH2) NORMAL LEVEL control ..... Adjusts recording level for normal audio CH2.
Audio (CH2) Hi-Fi LEVEL control ..... Adjusts recording level for Hi-Fi audio CH2.

2 Function display lamp area

Cassette "IN" lamp ( ) ..... Lights when a cassette is inserted.
S-VHS lamp ( ) ..... Lights in S-VHS mode.
Hi-Fi lamp ..... Lights when Hi-Fi sound is recorded or played back.
DOLBY* NR lamp ..... Lights when Dolby NR system is used.
SENSOR lamp (AG-7350 only) ..... Lights when SENSOR REC switch is ON. Flashes when no tape is inserted or tape with broken removable tab is inserted with the SENSOR REC switch set to ON.
"6H" lamp ..... Lights when played back in 6H mode (EP).
One-time playback lamp ( ) ..... Lights in one-time repeated playback mode.
Memory stop lamp (→000) ..... Lights in counter (0:00:00) stop mode.
Continuous playback lamp ( ) ..... Lights in continuous repeated playback mode.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
* "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

3 Microphone area (AG-7350 only)

MIC jacks (CH1/CH2) ..... Connects 1/4" external microphone.

4 Headphone area

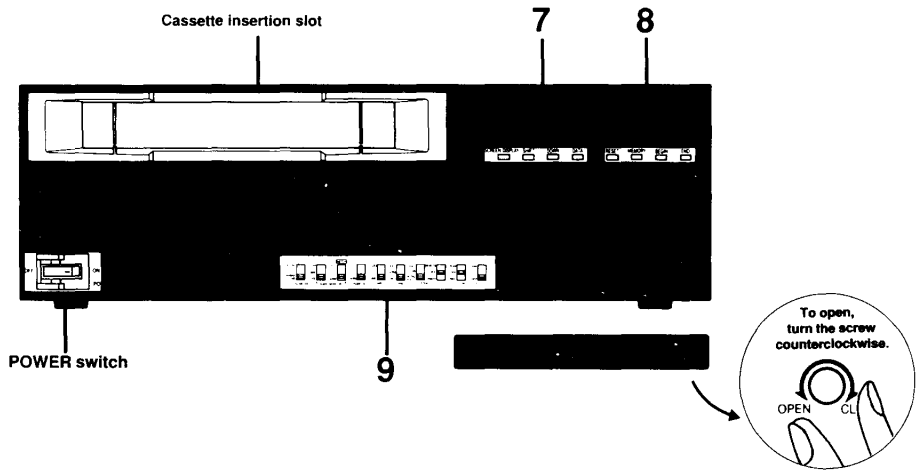
HEADPHONE jack ..... Connects 1/4" stereo headphones.
HEADPHONE LEVEL control ..... Adjusts headphones volume.

5 Picture adjusting area

TRACKING control ..... Adjusts tracking.
SLOW TRACKING control ..... Adjusts slow motion tracking.
PICTURE adjusting knob ..... Adjusts picture sharpness during playback.

6 Basic operation area

AUDIO DUB button (AG-7350 only) ..... Starts audio dubbing when used together with PLAY button during playback.
PLAY button ..... Starts playback.
REC button (AG-7350 only) ..... Starts recording when used together with PLAY button.
PAUSE/STILL button ..... Establishes still-picture mode during playback and pause mode during recording.
EJECT button ..... For ejecting the cassette.
REW button ..... Rewinds the tape.
STOP button ..... Stops all operations.
FF button ..... Fast forwards the tape.
SEARCH button ..... Executes and releases search.
Search/JOG dial ..... Adjusts search speed.



7 Menu setting area

SCREEN DISPLAY button ..... Displays initial setting menu on the screen.
SHIFT button ..... Changes the menu pages and shifts the flashing of the indicator rightward.
DOWN button ..... Shifts the flashing of the line indicator downward.
DATA button ..... Inputs the digit data and selects the data.

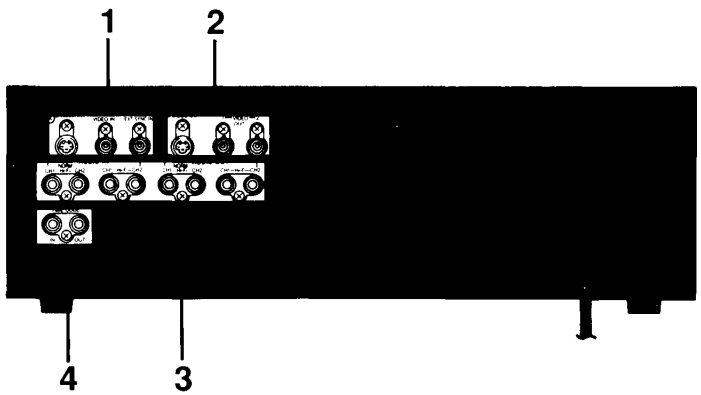
8 Function setting area

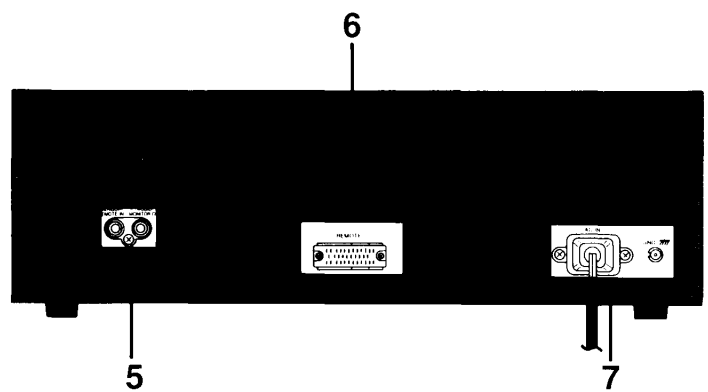
RESET button ..... Resets the tape counter.
MEMORY button ..... Sets the memory auto stop and selects the repeat mode.
BEGIN button ..... Sets the repeat beginning point.
END button ..... Sets the repeat ending point.

9 Function setting area

CH2 METER selector ..... Selects between Audio CH2 Level Meter and Tracking Meter for Audio (CH2) level meter.
AUDIO MONITOR meter selectors ..... Selects type of sound and channel to be monitored.
AUDIO OUT selector ..... Selects type of sound to be output from Audio Output Jacks.
INPUT signal selector (AG-7350 only) ..... Selects video input signal.
SYNC mode selector ..... Selects type of signal to be synchronized.
SENSOR REC selector (AG-7350 only) ..... Selects the mode to be recorded automatically.
EXT TIMER selector ..... Selects timer mode.
MODE LOCK selector ..... Inhibits function of the front panel buttons.
TV SYSTEM selector ..... Selects the 3 VHS system, PAL, CCIR and NTSC 4.43.

1-2. Rear Panel Parts





1 Video input signal area

S-VIDEO IN connector (AG-7350 only) ..... S-VIDEO signal input connector.
VIDEO IN connector (AG-7350 only) ..... Video signal input connector.
EXT SYNC IN connector ..... To synchronize with the external reference synchronizing signal.

2 Video output signal area

S-VIDEO OUT connector ..... S-VIDEO signal output connector.
VIDEO OUT (1, 2) connectors ..... Video signal output connectors.

3 Audio signal area

NORM/Hi-Fi audio input connectors (AG-7350 only) ..... NORM/Hi-Fi audio (CH1/2) input connectors.
Hi-Fi audio input connectors (AG-7350 only) ..... Input connectors for Hi-Fi sound only.
NORM/Hi-Fi audio output connectors ..... NORM/Hi-Fi audio (CH1/2) output connectors.
Hi-Fi audio output connectors ..... Output connectors for Hi-Fi sound only.

4 Time code signal area

TIME CODE IN connector (AG-7350 only) ..... Time Code signal input connector.
TIME CODE OUT connector ..... Time Code signal output connector.

5 Sensor remote recording/Monitor output area

SENSOR REMOTE connector (AG-7350 only) .. Sensor remote signal recording connector.
AUDIO MONITOR OUT connector ..... Audio monitor signal output connector.

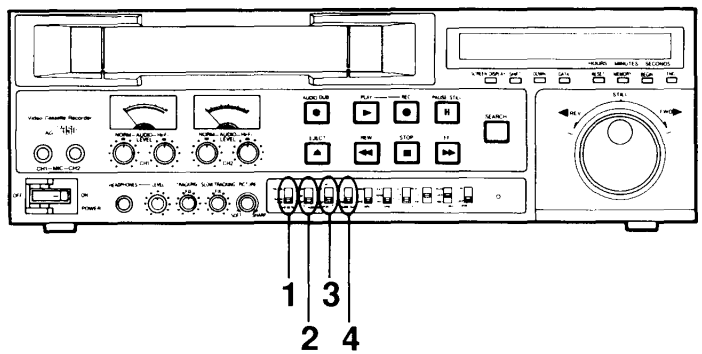
6 Remote signal area

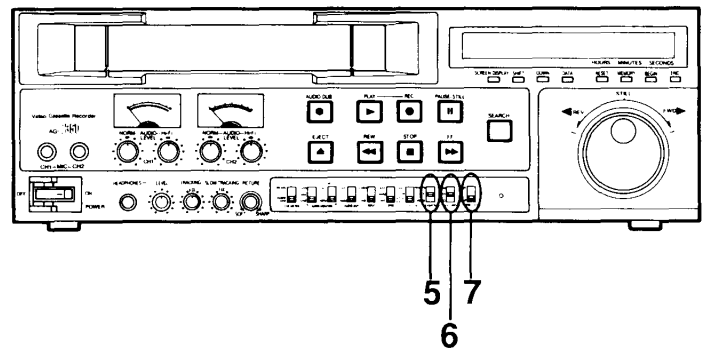
REMOTE connector ..... Connector for remote search controller (AG-A600).

7 Power supply circuit area

AC IN socket ..... Connected to AC 120-240V power outlet.
GND terminal ..... When connecting this unit to any other component, make absolutely sure that it is properly grounded by connecting this terminal.

1-3. Setting the Switches

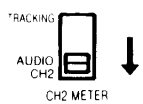




(The above illustration is AG-7350.)

1. CH2 METER Selector (AG-7350 only)

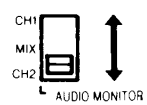
Used to adjust the audio (CH2) input level during recording. Set this selector to "AUDIO CH2" before making adjustment for the recording level of audio channel 2.



2. AUDIO MONITOR Selector

Used to select the audio channel which is to be heard on the TV monitor or headphones through the HEADPHONE Jack on the front panel or the AUDIO MONITOR OUT connector on the rear panel of the unit.

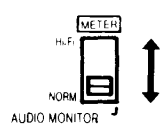
CH1: To monitor the audio signal from channel 1.
MIX: To monitor the mixed audio signals from channels 1 and 2 through the AUDIO MONITOR OUT connector or HEADPHONES Jack. When using headphones, audio channels 1 (left) and 2 (right) can be monitored separately.
CH2: To monitor the audio signal channel 2.



3. METER Selector (No LEVEL meter for AG-7150.)

Used to display the recording level of Hi-Fi audio or normal audio on the LEVEL meter and select the audio output signal from the HEADPHONES Jack on the front panel or the AUDIO MONITOR OUT connector on the rear panel.

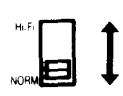
Hi-Fi: Selects Hi-Fi audio.
NORM: Selects normal audio.



4. AUDIO OUT Selector

Used to select the audio output signal from the NORM/Hi-Fi audio output connectors on the rear panel.

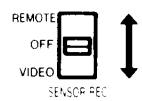
Hi-Fi: Discriminates between Hi-Fi and normal audio automatically. When there is no Hi-Fi audio output signal, normal audio will be automatically outputted.
NORM: Normal audio is outputted.



5. SENSOR REC Selector (AG-7350 only)

Used to select the mode to be recorded automatically.

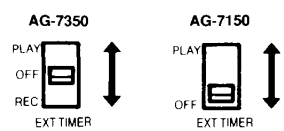
REMOTE: To perform automatic recording of control signal from the connector at rear panel.
OFF: Normally, set this switch to this position.
VIDEO: To detect the video input signal from the VIDEO IN connector and record automatically.



6. EXT TIMER Selector

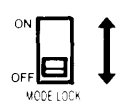
Used to perform timer recording or playback.

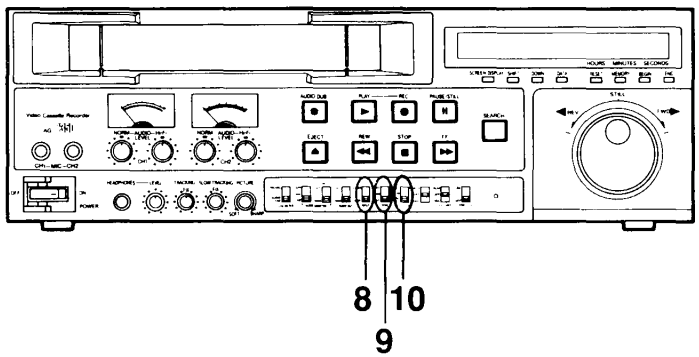
PLAY: To perform timer playback with an external timer.
OFF: Normally, set this switch to this position.
REC: To perform timer recording with an external timer.



7. MODE LOCK Selector

ON: To operate the unit with a remote controller. When this switch is set to this position, the operation buttons on the front panel of the unit will be rendered inoperative.
OFF: When this switch is set to this position, the operation buttons on the front panel are operative and the unit can also be controlled with the remote controller.



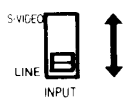


8. INPUT Signal Selector (AG-7350 only)

Used to select video input signal to be recorded.

S-VIDEO: To record video signal through the S-VIDEO IN Connector.

LINE: To record video signal through the VIDEO IN Connector.



9. SYNC Selector

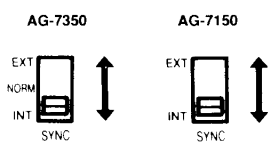
Select the synchronizing signal.

EXT: To synchronize to the external composite sync signal transmitted through the EXIT SYNC IN Connector during playback or recording.

NORM: To synchronize to the video input signal transmitted from the VIDEO IN Connector. (If there is no video input signal, the "INT" mode will be selected.)

INT: To synchronize to the internal oscillator built in this unit. (During recording, it will be automatically synchronized to the video input signal.)

■ When setting to "EXT", be sure to input an external composite sync signal.



10. TV SYSTEM Selector

Used to select the 3 VHS system.

PAL: To playback or record by PAL system.

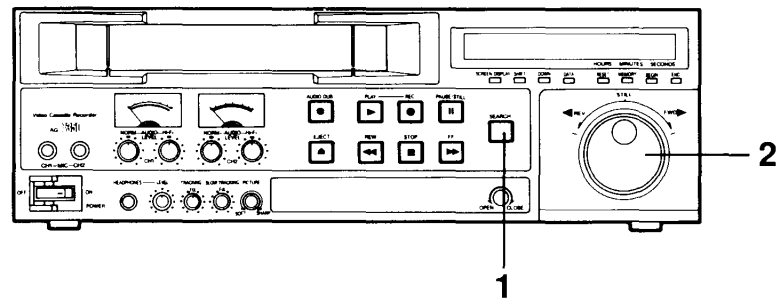
CCIR: To playback or record by CCIR system. (S-VHS recording can not be made.)

NTSC 4.43: To playback tapes recorded by NTSC system. (Recording cannot be performed.)

■ PAL and CCIR systems can not be distinguished automatically.

■ If REC and PLAY Buttons are pressed simultaneously when this selector is set to "NTSC 4.43", the unit will automatically go into playback mode.

1-4. Search Operations



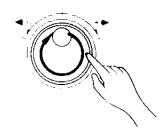
1. Press the SEARCH Button.

The SEARCH, PLAY and PAUSE/STILL Buttons' indicators will light up. Then the unit goes into the SEARCH standby mode.

2. Operate the SEARCH/JOG Dial.

The inner part dial is JOG mode while the outer part dial is SHUTTLE mode.

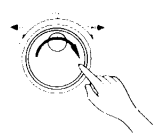
■ When the SEARCH/JOG Dial is rotated clockwise, the tape will be played back in the forward direction (the FWD indicator appears). When it is rotated counterclockwise, the tape will be played back in the reverse direction (the REV indicator appears).



[1] JOG mode

In response to the speed at which the inner part dial is turned, the tape can be played back at a speed ranging from still picture to ±1x normal tape speed.

When the turning is stopped, a still picture is always produced.



[2] SHUTTLE mode

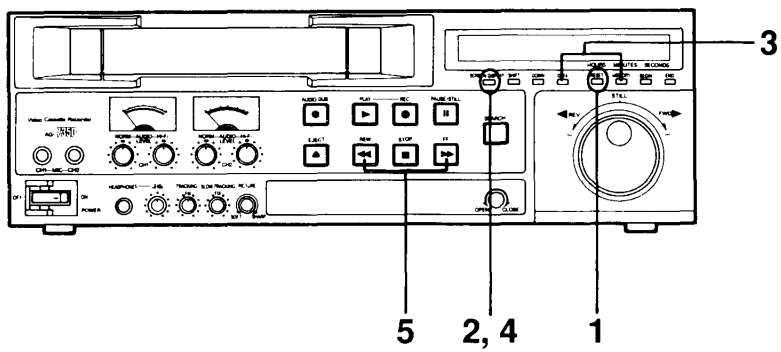
When the outer part dial is rotated in the SHUTTLE mode, the tape speed will be changed depending on the position of the SEARCH/JOG Dial. The tape speed can be changed from 0 (ie, STILL playback) to 9 times the normal tape speed.

The still picture is obtained when the SEARCH/JOG Dial is set to the center fix position (click-stop).

Note

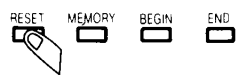
■ Set the "DIRECT SEARCH" mode in the ON-SCREEN (initial setting) menu to "ON" to perform the direct search operation. (Refer pages 38 to 41.)

1-5. MEMORY STOP Functions



1. Press the RESET Button at the point to be automatically stopped.

■ The tape counter will be reset to "0:00:00".

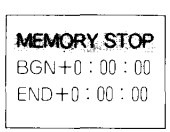


2. Press the SCREEN DISPLAY Button.

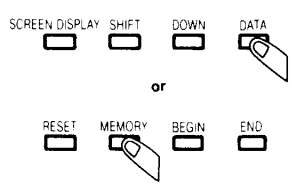
■ The ON-SCREEN menu will be displayed on the TV monitor.

3. Press the DATA or MEMORY Button.

■ Select the "MEMORY STOP" mode.

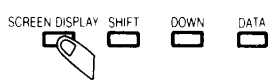


(" •000" lamp lights up in the counter.)



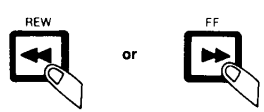
4. Press the SCREEN DISPLAY Button.

■ The normal picture will appear.



5. Press the FF or REW Button.

■ When the FF or REW Button is pressed, the tape will be wound and then stopped automatically around the tape counter position "0:00:00".



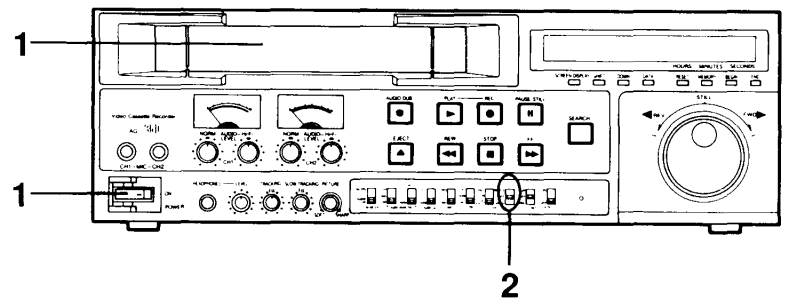
Notes

- MEMORY STOP function is also available by just pressing the MEMORY Button at the position except "0:00:00" after step 1 described above.
- When finished with this function, be sure to select "MEMORY OFF" in step 3 described above. ("→000" lamp goes off in the counter.)

1-6. Sensor Recording (AG-7350 only)

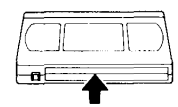
Model AG-7150 is not equipped with recording function.

The unit allows to start recording automatically if a video input signal is supplied to the unit from an external source such as a satellite, etc.



1. Turn on the unit and insert a video cassette.

Make sure that the erasure prevention tab on the video cassette is intact.



2. Set the SENSOR REC Selector.

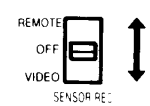
In case of "VIDEO" setting:

■ The "SENSOR" indicator will appear on the tape counter and the unit will be set to the standby mode. When a video signal is inputted into the VIDEO IN Connector, the unit is turned on and set to the recording mode. When there is no more signal, the unit will go into the stop mode and, after a while, be set to the standby mode again.

In case of "REMOTE" setting:

■ The "SENSOR" indicator will appear on the tape counter and the unit will be set to the standby mode. When a recording start signal is inputted into the SENSOR REMOTE Connector on the rear panel, the unit is turned on and set to the recording mode. When a recording end signal is inputted, the unit will go into the stop mode and, after a while, be set to the standby mode again.

■ The tape position where the SENSOR recording started also becomes the beginning position of the REPEAT playback. Similarly, the tape position where the recording ended becomes the end position of the REPEAT playback, and the repeat mode is automatically set to "REPEAT CONTINUE".

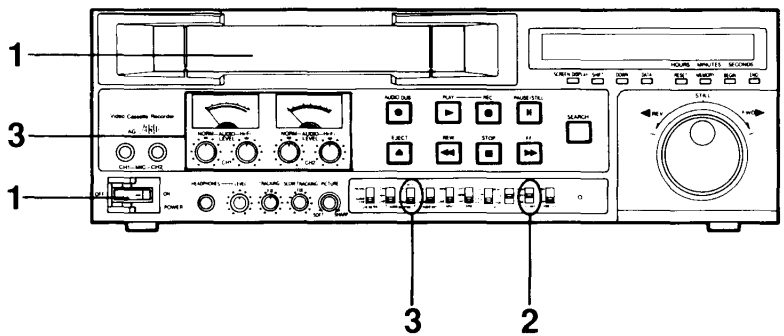


Notes

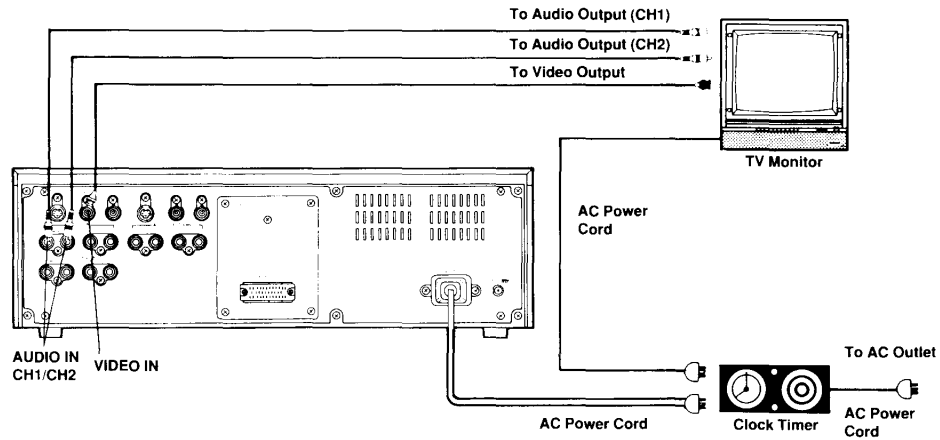
- The "SENSOR" indicator will blink if no video cassette or a video cassette with its erasure prevention tab broken off is inserted in the unit after the SENSOR REC Selector is set "VIDEO" or "REMOTE".
- When the tape reaches its end during the SENSOR recording, the unit is set to the stop mode and turned off.
- Any operation buttons are inoperative after the SENSOR REC Selector is set.

1-7. Timer Recording (AG-7350 only)

Model AG-7150 is not equipped with recording function.

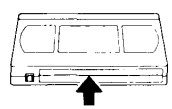


Connections

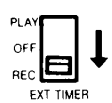


1. Turn on the unit and insert a video cassette.

- Make sure that the erasure prevention tab on the video cassette is intact.



2. Set the EXT TIMER Selector to "REC".



3. Adjust the audio recording level.

(Refer page 14.)

4. Set the timer.

[1] Turn on the timer.

[2] Set the timer to the desired ON and OFF time.

- It may take about 1 minute to load the tape on the cylinder inside the unit when the preset ON time comes. Therefore, set the preset ON time at least about 1 minute ahead of the actual start time.
- It is best to set the OFF time so that the unit is turned off about 10 minutes after the tape reaches its end. This will prevent the tape from damage.
  If, for example, NV-E180 tape is used for TIMER recording, the recording time should be preset for about 190 minutes.

- Refer to the operating instructions of the timer you are using for details.

5. When the preset time comes

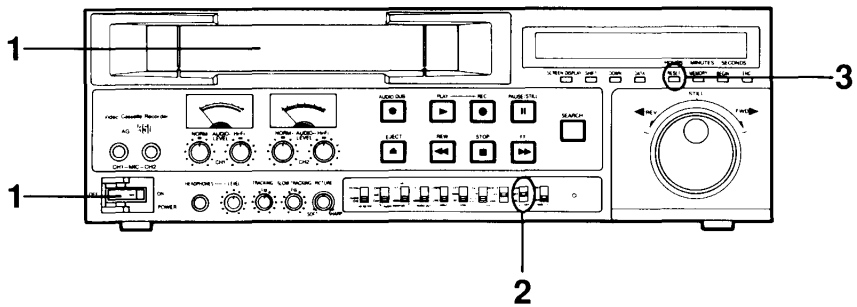
At the preset time ON time, the unit will be turned on automatically to start TIMER recording. At the preset OFF time, the unit will be turned off, but the tape will remain loaded on the cylinder inside the unit.
When the power is resumed, the unit will go into the stop mode and then into the TIMER recording mode.

6. Press the STOP Button to stop TIMER recording halfway.

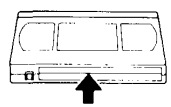
Notes

- When the tape reaches its end, the unit will go into the mode set in the ON-SCREEN menu (TAPE END MENU).
- If the power is turned off while the tape is moving during TIMER recording, the tape will remain loaded on the cylinder inside the unit. When the power is resumed, the unit will unload the tape from the cylinder. After a while, the unit goes into the stop mode and then the TIMER recording mode.

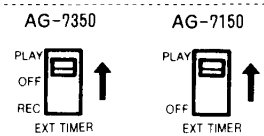
1-8. Timer Playback



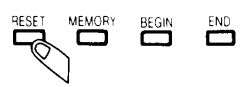
1. Turn on the unit and insert a recorded video cassette.



2. Set the EXT TIMER Selector to "PLAY".



3. Press the RESET Button to reset the tape counter to "0:00:00".



4. Set the timer.

[1] Turn on the timer.

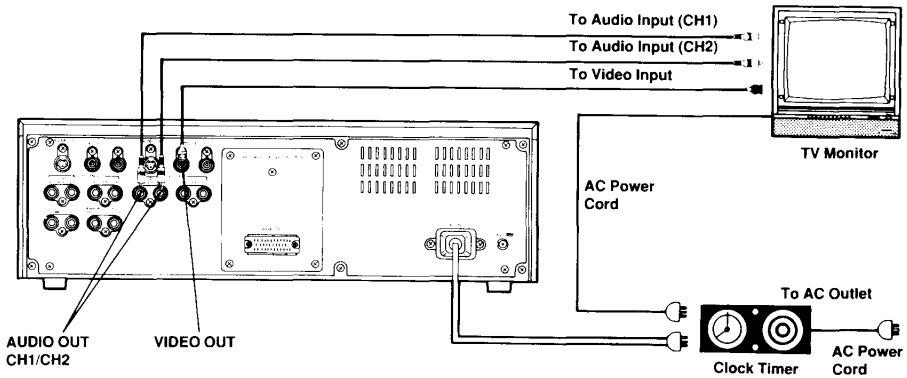
[2] Set the timer to the desired ON and OFF time.

- It is best to set the OFF time so that the unit is turned off about 10 minutes after the tape reaches its end. This will prevent the tape from damage. If, for example, NV-E180 tape is used for TIMER playback, the playback time should be preset for about 190 minutes.

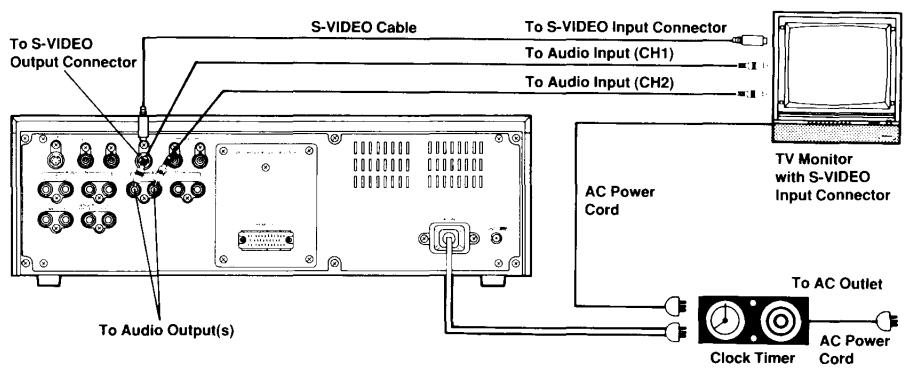
■ Refer to the operating instructions of the timer you are using for details.

Connections

• Connection with video and audio cables



• Connection with S-VIDEO and audio cables



5. When preset time comes

At the preset ON time, the unit will be turned on automatically to start playback. At the preset OFF time, the unit will be turned off, but the tape will remain loaded on the cylinder inside the unit.

■ When the repeat function is set, the unit will rewind and then resume the repeat playback.

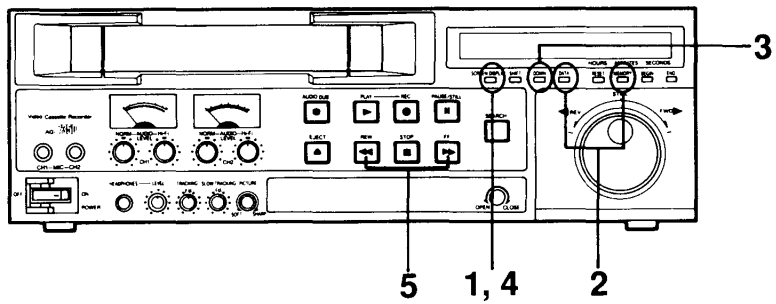
6. Press the STOP Button to stop TIMER playback halfway.

Notes

■ When the tape reaches its end, the unit will go into the mode set in the ON-SCREEN (initial setting) menu. However, during repeat mode, the tape will be automatically rewound.

■ If the power is turned off while the tape is moving during TIMER playback, the tape will remain loaded on the cylinder inside the unit. When the power is resumed, the unit will unload the tape from the cylinder. After a while, the unit goes into the stop mode and then the TIMER playback mode.

1-9. Repeat Playback

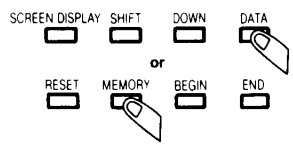


1. Press the SCREEN DISPLAY Button.

■ The ON-SCREEN menu will be displayed on the TV monitor.

2. Press the DATA or MEMORY Button.

■ Select the repeating mode (one-time or continuous repeated playback mode).
The " ⇄ " or " ↻ " mark will appear on the tape counter.

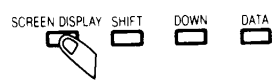


3. Press the DOWN Button.

■ Press the SHIFT and DATA Buttons to locate the beginning and end points of section you wish to perform REPEAT playback.

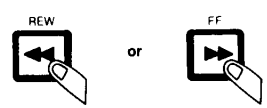
4. Press the SCREEN DISPLAY Button.

■ The normal screen will appear.



5. Press the FF or REW Button.

■ When the tape reaches the beginning BGN points, REPEAT playback will start automatically.



Notes

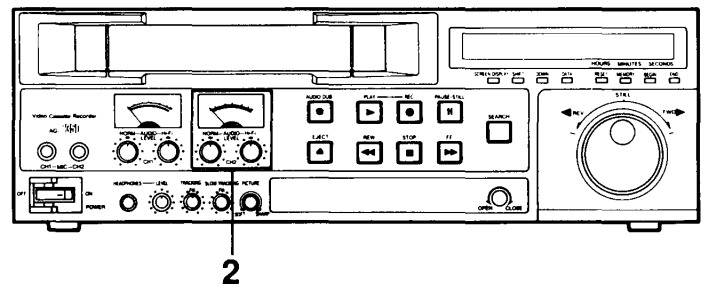
■ When same data is input for BGN and END, repeat playback is performed from the tape beginning to the end.

■ When the data for END has exceeded the tape end, repeat palyback is performed from the BGN position to the tape end.

■ When the data for BGN is smaller than the tape beginning, repeat playback is performed from the tape beginning to the END position.

1-10. Time Code

The SMPTE time code signal recorded onto the tape by using a time code generator/reader permits absolute addressing (the identification of storage locations by actual addresses). The time code signal will be recorded on audio CH2 track.



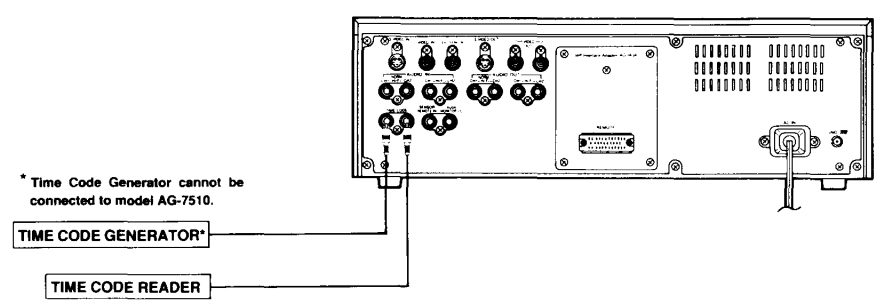
1. Set the selectors.

CH2 METER Selector → "CH2" **(AG-7350 only)** (Refer to page 11.)
AUDIO CH2
(ON-SCREEN) → "TIME CODE" (Refer to pages 38 to 40.)

2. When the time code signal has been entered. (AG-7350 only)

■ The AUDIO CH2 LEVEL meter indicates near 0.
■ Time code signals are recorded during recording and dubbing (including audio dubbing on channel 2).
Refer to the operating instructions of the SMPTE time code generator/reader you are using for details.

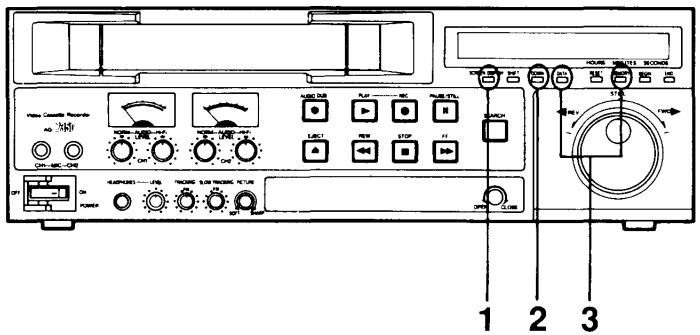
Connections

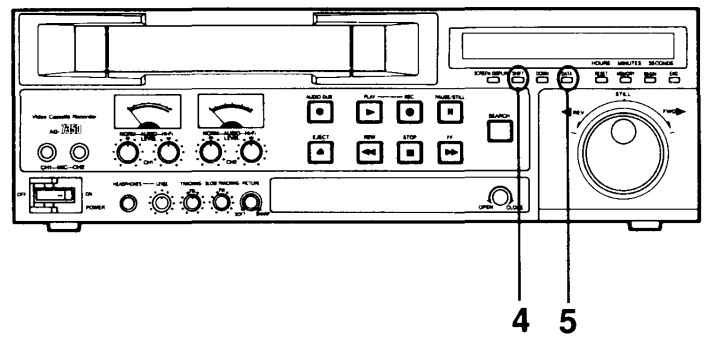


Note

■ The unit's tape counter does not count the time code signals, but the control (CTL) signals recorded onto the tape. Connect the time code generator/reader to the unit to read the addresses of the time code signal.

1-11. ON-SCREEN (Memory Setting)



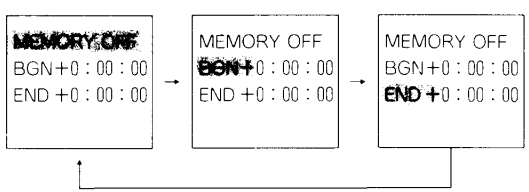


1. Press the SCREEN DISPLAY Button.

■ The unit goes into the ON-SCREEN mode and the MEMORY setting menu will display on the screen.

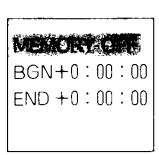
2. Press the DOWN Button.

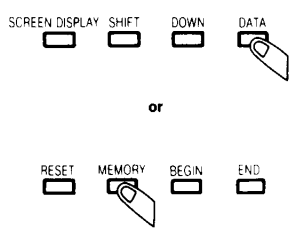
■ The "MEMORY" indication line will flash. Each time the DOWN Button is pressed, the flashing indication will be shifted to "BGN" → "END" → "MEMORY" line.



3. Press the DATA or MEMORY Button.

■ Select the desired mode while the "MEMORY" indication line is highlighted.



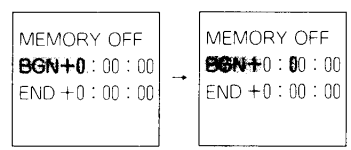


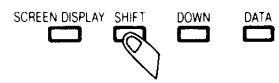
"MEMORY OFF" (No indication) → "MEMORY STOP" (⇥000) → "REPEAT 1 TIME" (↻) → "REPEAT CONTINUE" (⟲)

4. Press the SHIFT Button.

The digit to be set will move. The digit is flashing during selection of the desired numeric.

■ This step is activated while "BGN" or "END" is highlighted.

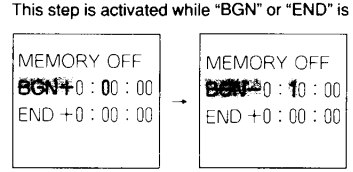




5. Press the DATA Button.

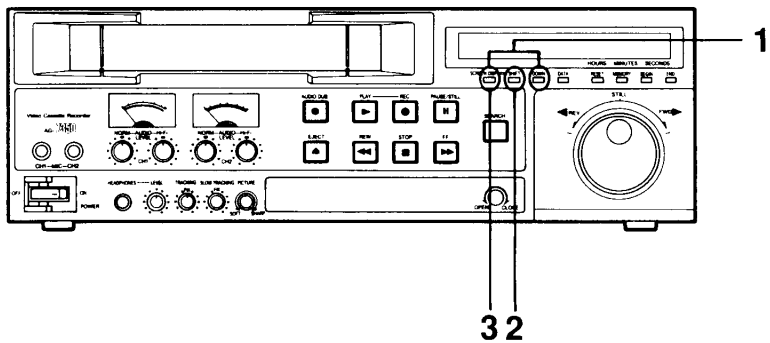
Set the desired numeric and select "+" or "–".

■ This step is activated while "BGN" or "END" is highlighted.



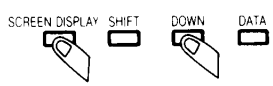
Superimpose display	Description of function
MEMORY OFF	Counter memory is off.
MEMORY STOP	The tape stops at the counter position "0:00:00".
REPEAT 1TIME	Performs one-time REPEAT playback.
REPEAT CONTINUE	Performs continuous REPEAT playback.
BGN	Beginning point of REPEAT playback.
END	End point of REPEAT playback.

1-12. ON-SCREEN (Initial Setting)



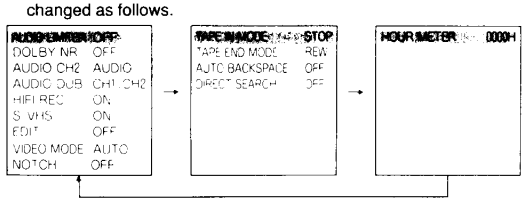
1. Press the DOWN and SCREEN DISPLAY Buttons together.

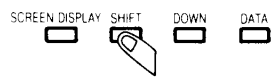
■ The unit goes into the ON-SCREEN mode and the initial setting menu will display on the screen.



2. Press the SHIFT Button.

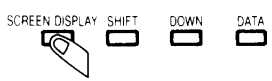
■ Each time the SHIFT Button is pressed, the screen will be changed as follows.





3. Press the SCREEN DISPLAY Button after setting is finished.

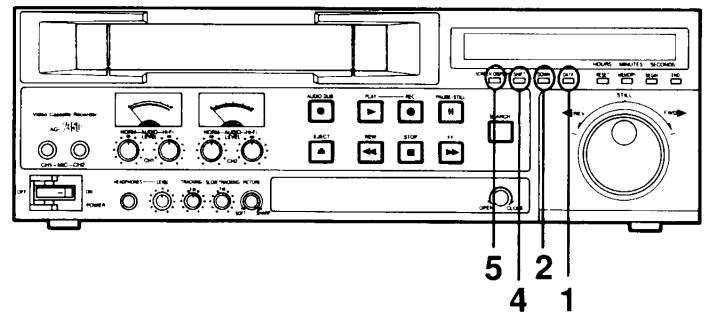
■ Normal screen will appear.



Note

■ If the SCREEN DISPLAY Button is pressed in the initial setting mode, the screen will return to normal.

■ How to set each initial setting item



1. Press the DATA Button.

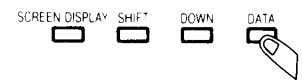
■ Select "ON" or "OFF"

AG-7350

AUDIO LIMITER	OFF
DOLBY NR	OFF
AUDIO CH2	AUDIO
AUDIO DUB	CH1 .CH2
HIFI REC	ON
S-VHS	ON
EDIT	OFF
VIDEO MODE	AUTO
NOTCH	OFF

AG-7150

DOLBY NR	OFF
AUDIO CH2	AUDIO
EDIT	OFF
VIDEO MODE	AUTO



2. Press the DOWN Button.

■ The next item will flash.

AG-7350

AUDIO LIMITER	ON
DOLBY NR	OFF
AUDIO CH2	AUDIO
AUDIO DUB	CH1 .CH2

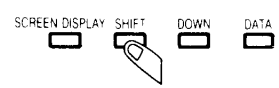
AG-7150

DOLBY NR	ON
AUDIO CH2	AUDIO
EDIT	OFF
VIDEO MODE	AUTO

3. Repeat steps 1 and 2 to set each item to the desired mode.

4. Press the SHIFT Button to shift the screen to the next menu.

■ Repeat steps 1 and 2 to set each item mode.



5. Press the SCREEN DISPLAY Button after setting is finished to return to the normal screen.

■ **Contents of each initial setting item**

DATA Button: To select operation mode
DOWN Button: To move to the next item
SHIFT Button: To shift to next menu screen

Superimpose	Description of function	Initial mode
AUDIO LIMITER **(AG-7350 only)**	Sets the AUTO LIMITER function ON or OFF. **ON**: Permits audio recording with less distortion at peak levels with the aid of the automatic volume control circuit. (This function is activated when normal audio recording is performed.) **OFF**: Permits maximum dynamic range to be recorded, but the level must be set low enough so that peaks do not cause objectionable distortion.	OFF
DOLBY NR	Sets the DOLBY NR function ON or OFF. **ON**: Dolby NR system is activated. **OFF**: Dolby NR system is not activated. ■ DOLBY Noise Reduction System PLAY / REC: **ON** / **OFF** **ON**: Normal sound with less noise. / Treble is emphasized. **OFF**: Treble is attenuated. / Normal sound *DOLBY NR system is activated when normal audio is reproduced.	OFF
AUDIO CH2	Selects the signal to be recorded or played back on audio channel 2. **AUDIO**: Audio signal is recorded/played back. **TIME CODE**: Time code signal is recorded/played back. (Sound track of channel 2 will be muted.)	AUDIO
AUDIO DUB **(AG-7350 only)**	Selects the audio track CH1 or CH2 for audio dubbing. **CH1**: Audio is recorded on channel 1. **CH1, CH2**: Audio is recorded on both channels 1 and 2. **CH2**: Audio is recorded on channel 2.	CH1, CH2
HIFI REC **(AG-7350 only)**	Sets the Hi-Fi audio recording. **ON**: Hi-Fi audio is recorded. **OFF**: Hi-Fi audio is not recorded.	ON
S-VHS **(AG-7350 only)**	Sets the recording mode. **ON**: Distinguishes between the VHS and S-VHS tapes and determines the recording mode. **OFF**: VHS recording is performed.	ON
EDIT	Sets the editing mode. **ON**: To edit or duplicate tapes (dubbing) **OFF**: For normal operation	OFF
VIDEO MODE	Selects the colour mode of video input signal. **COLOUR**: Forcibly colour mode **AUTO**: Automatically distinguishes between black & white and colour video input signals. Forcibly black & white mode	AUTO
NOTCH	Selects whether to reduce noise or not. **ON:** When noise appears during composite input. **OFF:** When noise do not appear during composite input.	OFF

DATA Button: To select operation mode
DOWN Button: To select to the next item
SHIFT Button: To shift to next menu screen

Superimpose	Description of function	Initial mode
TAPE IN MODE	Selects the VTR function mode after a video cassette is inserted. **STOP**: The unit goes into the STOP mode. **REW**: Rewinds the tape automatically. **PAUSE**: The unit goes into the PAUSE/STILL mode. **PLAY**: Playback will start automatically.	STOP
TAPE END MODE	Selects the VTR function mode when the tape reaches its end. **REW**: Rewinds the tape automatically. **STOP**: The unit goes into the STOP mode. **EJECT**: The video cassette will be ejected. **REW→EJECT:** Ejects the video cassette after rewinding the tape automatically.	REW
AUTO BACKSPACE **(AG-7350 only)**	Sets the Auto Backspace function ON and OFF. **ON**: The unit rewinds the tape for about 1 second and goes into the PAUSE mode when the REC Button is pressed during the PAUSE/STILL mode or the PAUSE/STILL Button is pressed during recording. Then when the PAUSE/STILL Button is pressed, the unit playbacks the tape for about a second and goes into the recording mode. **OFF**: For normal PAUSE/STILL operation	OFF
DIRECT SEARCH	Sets the Direct Search function ON and OFF. **ON**: Allows to operate the SEARCH Dial directly without having to press the SEARCH Button. **OFF**: For normal SEARCH operation	OFF
HOUR METER	Displays the total of the cylinder driving time.	0000H

1-13. Error Displays

The following error messages will be displayed on the tape counter if an abnormality occurs in the unit. In this case, follow instructions described below.

Error display	Problem	Remedy
d	Condensation (dew) forms inside the unit.	Wait until "d" goes out with the power on. (Refer to "In case of dew detection".)
E-2	Elevator Lock trouble	Contact your local dealer.
E-3	Loading Lock trouble	Contact your local dealer.
E-4	Cylinder Lock trouble	Contact your local dealer.
E-5	Reel Lock trouble	Contact your local dealer.
E-6	Tension trouble	Contact your local dealer.

Note

- If the error messages except the indication "d" are displayed, turn OFF the unit immediately and disconnect the power cord from the mains to prevent the unit from serious damage before contacting your authorized service personnel.

In case of dew detection

When condensation (dew, so-called sweating) forms inside the unit, the error message "d" will be displayed on the counter and all the operation buttons are made inoperative. Leave the unit on and let it remain at room temperature until "d" disappears. Depending on the surrounding condition, this may take several hours.

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.

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

1-14.Troubleshooting

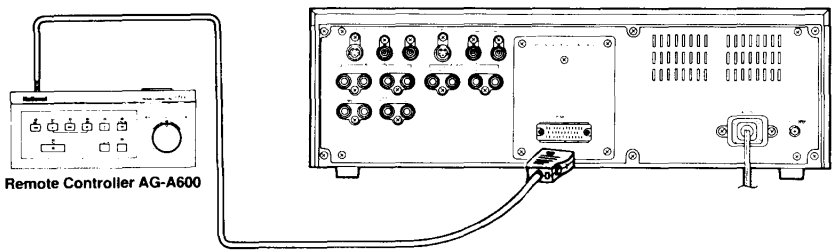
Before requesting service, check the following points once again. If the problem is not solved, contact your local dealer.

Problem	Check points	Page
Operation buttons are inoperative.	■ An error message is displayed on the tape counter.	42
	■ The SENSOR REC Selector is set to "ON". (AG-7350 only)	12, 21
	■ The MODE LOCK Selector is set to "ON".	12
Recording cannot be performed. (AG-7350 only)	■ The erasure prevention tab on the cassette's rear is broken off.	48
	■ The INPUT Selector is not set correctly.	13
RECORD or PLAYBACK mode is engaged after the unit is turned on.	■ The EXT TIMER Selector is set to "ON".	12
	■ The SENSOR REC Selector is set to "ON". (AG-7350 only)	12, 21
Playback picture has large amounts of "snow".	■ Video heads are clogged with dirt or abraded.	49
Noise interference in playback picture.	■ Adjust the TRACKING control.	16
Playback picture is not in colour.	■ The video input signal was originally black & white.	—
	■ The "VIDEO MODE" in the ON-SCREEN (initial setting) menu is set to "B/W".	40
Counter does not work.	■ CTL (control) signals are not recorded onto the tape.	—
Playback picture is distorted.	■ Adjust horizontal hold control on the TV monitor.	—
	■ Sudden voltage variations occurred during recording.	—
	■ Tape is old and/or defective.	—
	■ The SYNC Selector is not set correctly.	13

1-15.Controller (Option)

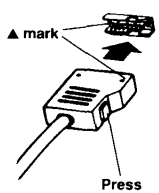
■ **Remote Controller AG-A600**

Connection



The optional Remote Controller AG-A600 allows RECORD, PLAYBACK, FAST FORWARD, REWIND, PAUSE/STILL, VARIABLE SPEED PLAYBACK (0~9 times normal tape speed) in forward or reverse direction and STOP operations. Operation is possible with the unit's operation buttons even when the AG-A600 is connected to the unit.

Connection with the REMOTE Connector



Align the " ▲ " marks and connect it to the REMOTE Connector while keeping the cable connector button pressed.

1-16. Rack Mount Adaptor (Option)

The Rack Mount Adaptor AG-M730-E is used to mount the unit on the IEC standard rack.

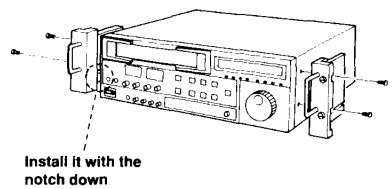
Installation of the AG-M730-E

1. Remove the 4 screws

from the side cabinet of the unit.

2. Use the 4 screws supplied

with the AG-M730-E to install it to the unit.



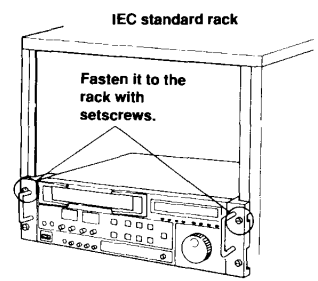
Mounting on the IEC standard rack

1. Remove the 4 rubber legs

from the bottom of the unit.

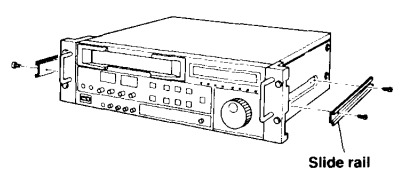
2. Mount the unit on the rack.

■ Be sure to install a ventilation fan (air volume of about 3.3 m 2/sec.) on the top of the rack.

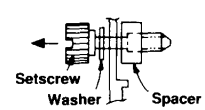


Installation of slide rails

■ Use a complete slide rail and bracket unit for 18" length (part No. CC3004-99-0017) or 24" length (part No. CC3004-99-0018) of Chassis Track. (The complete slide rail and bracket unit is not available from Panasonic.)



■ When using the slide rail, remove the setscrews. The setscrews can be removed by pulling in the direction of the arrow. Keep the removed setscrews, washers and spacers in a proper place.



• For the details, contact your authorized service personnel.

1-17. Connector Signals

S-VIDEO IN/OUT Connectors

Pin No.	Description of signal
1	Y GND
2	C GND
3	Y signal
4	C signal

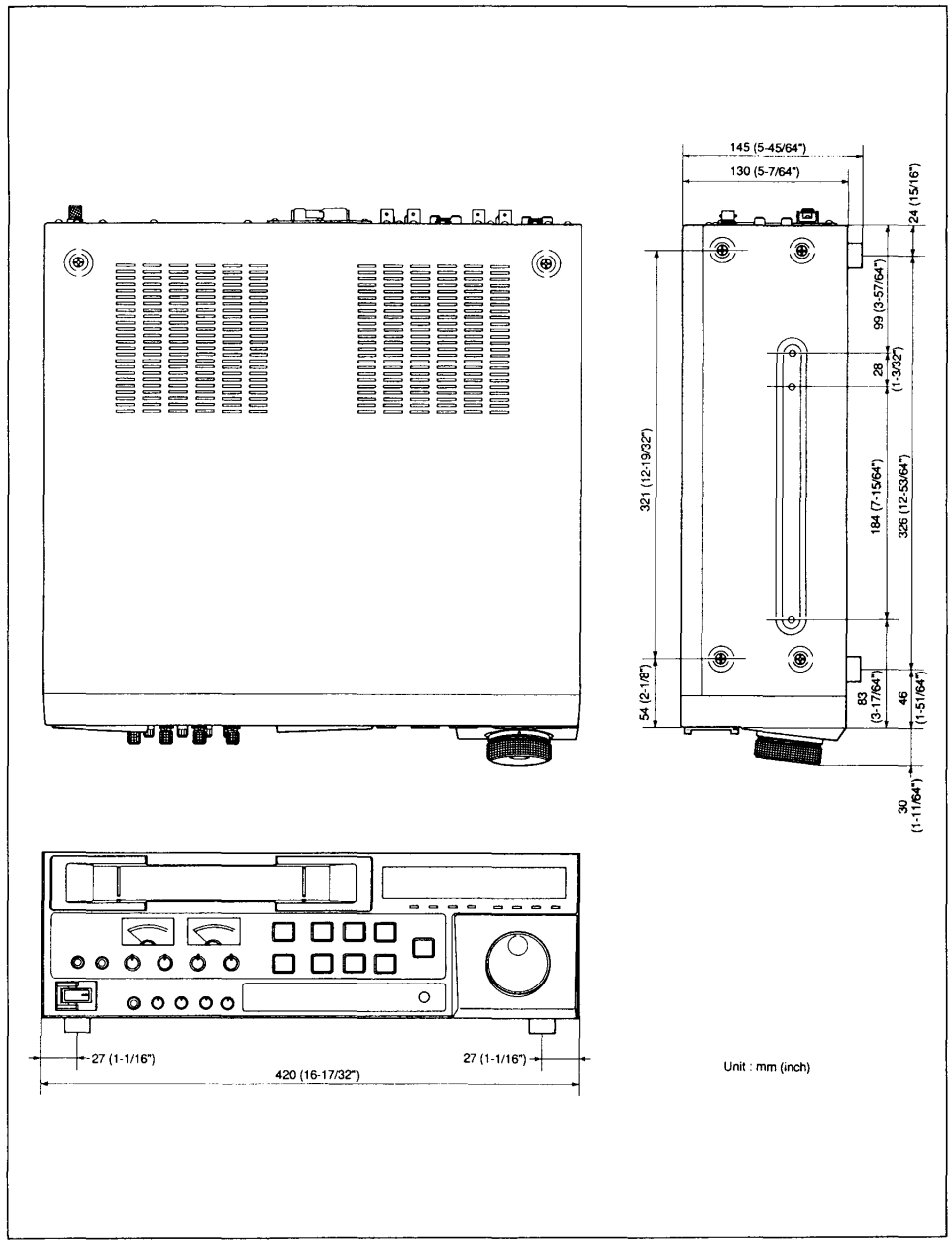
Model AG-7150 is not equipped with S-VIDEO IN Connector.

34P REMOTE Connector

Pin No.	Description of signal
1	REC SWITCH
2	PLAY SWITCH
3	FF SWITCH
4	REW SWITCH
5	STOP SWITCH
6	AUDIO DUB SWITCH
7	PAUSE SWITCH
8	CASSETTE IN
9	AUDIO DUB SWITCH
10	
11	
12	GND
13	FRAME ADV. SWITCH
14	REVERSE COUNT
15	
16	EDIT SWITCH
17	REVERSE
18	CONTROL PULSE OUT
19	REMOTE 19
20	START MARK
21	EJECT SWITCH
22	
23	REC HOLD
24	PLAY HOLD
25	FF HOLD
26	REW HOLD
27	
28	AUDIO DUB HOLD
29	PAUSE HOLD
30	REMOTE 30
31	AUDIO DUB HOLD
32	
33	REMOTE 33
34	+ 12 V

Pin No. 1, 6, 9, 23, 28 and 31 are not used for model AG-7150.

1-18. Dimensions



Section 2

DISASSEMBLY PROCEDURES

CONTENTS

2-1. DISASSEMBLY FLOW CHART

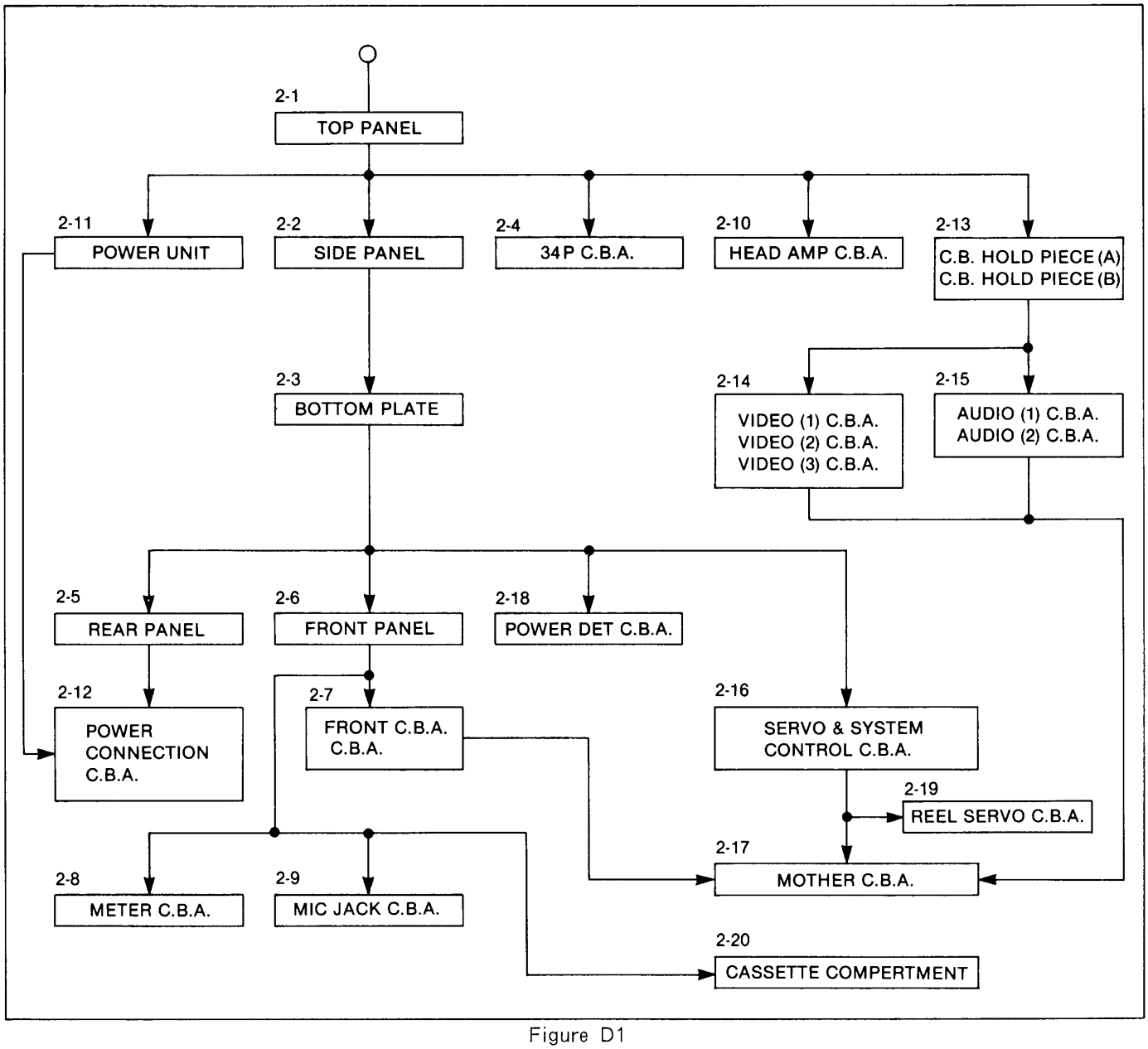


Figure D1

The above flow chart describes the order of steps for removing the cabinet parts and certain printed circuit boards in order to gain access to the items needing servicing. To reassemble the unit, follow the steps in reverse order.

2-2. DETAILED DISASSEMBLY METHOD

2-2-1. Removal of the Top Panel

1. Unscrew the 2 screws (A) on the Top Panel (Figure D2).
2. Careful lift the rear of the case and side it off the back of the unit.

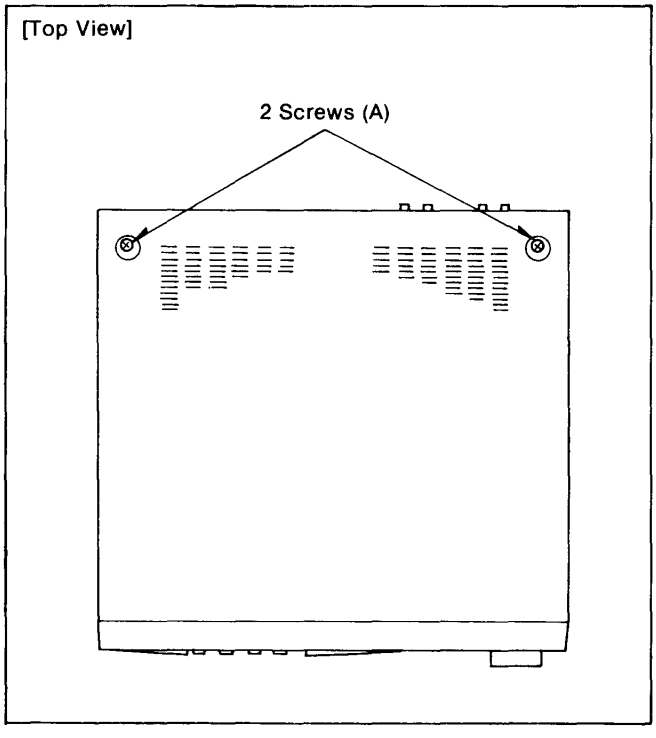


Figure D2

2-2-2. Removal of the Side Panels

1. Unscrew the 8 screws (B) on the Side Panels (Figure D3).
2. Lift the Side Panels.

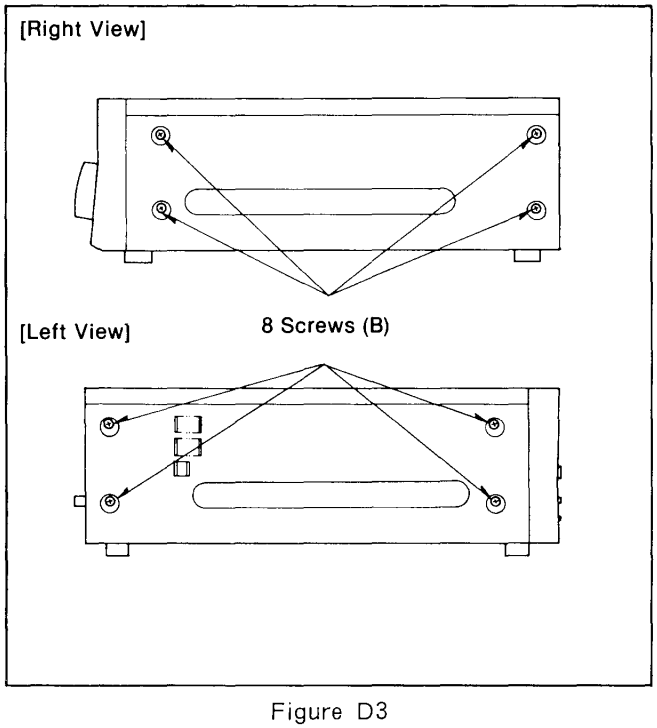


Figure D3

2-2-3. Removal of the Bottom Plate

1. Unscrew the 9 screws (C) on the Bottom Plate (Figure D4).
2. Lift the Bottom Plate.

* Note : Do not remove the 4 rubber feet.

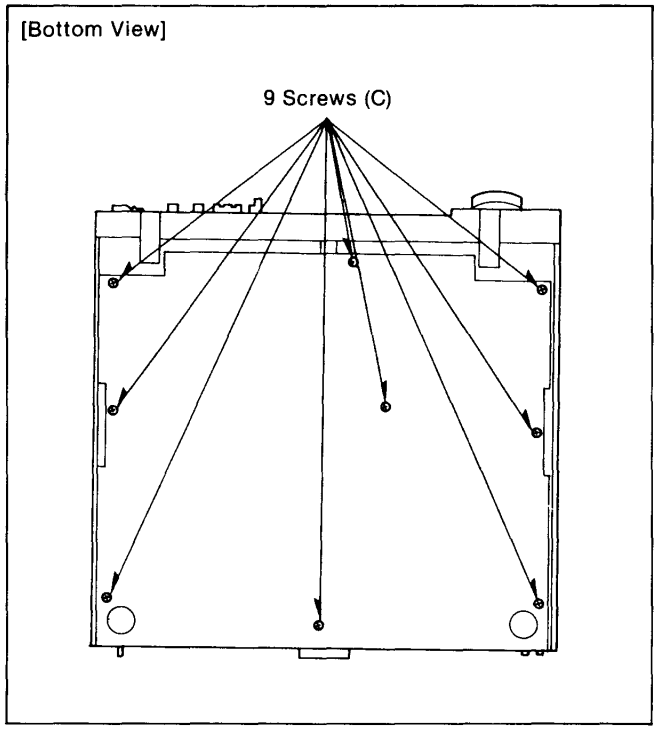


Figure D4

2-2-4. Removal of the 34P C.B.A.

1. Unscrew the 4 screws (D) on the 34P C.B.A. (Figure D5).
2. Careful lift the 34P C.B.A.

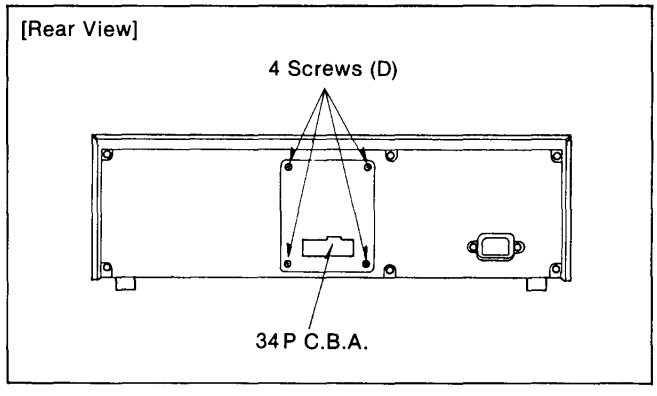


Figure D5

2-2-5. Removal of the Rear Panel with Rear Jack C.B.A.

1. Unscrew the 8 screws (E) on the Rear Panel (Figure D6).
2. Lift the Rear Panel with Rear Jack C.B.A. and carefully pull the panel off the unit.

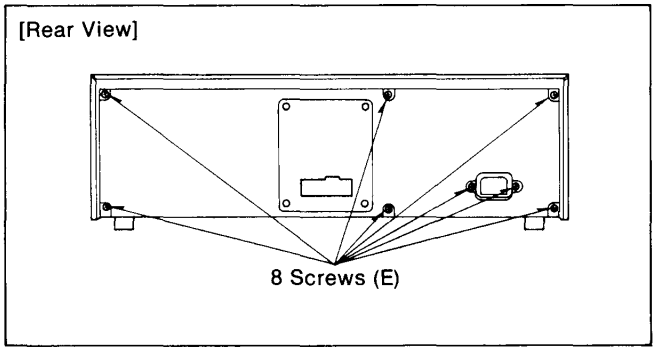


Figure D6

2-2-6. Removal of the Front Panel

1. Pull out the 4 knobs (F) on the Front Panel (Figure D7).
2. Pull out the Jog/Search Dial Knob on the Front Panel (Figure D7).

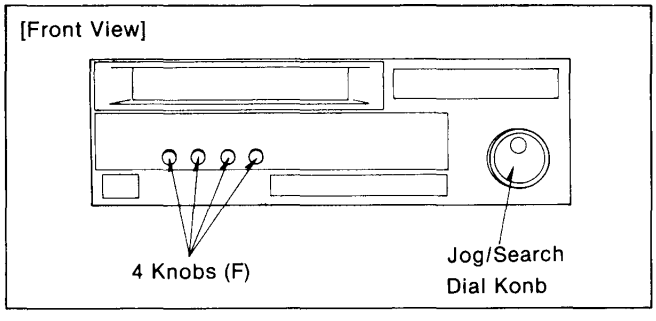


Figure D7

3. Unscrew the 3 screws (G) on the top of the Front Panel (Figure D8).
4. Unlock the 3 locking tabs (H) on the top of the Front Panel and the 2 locking tabs (I) on the bottom of the Front Panel (Figure D8 and Figure D9).

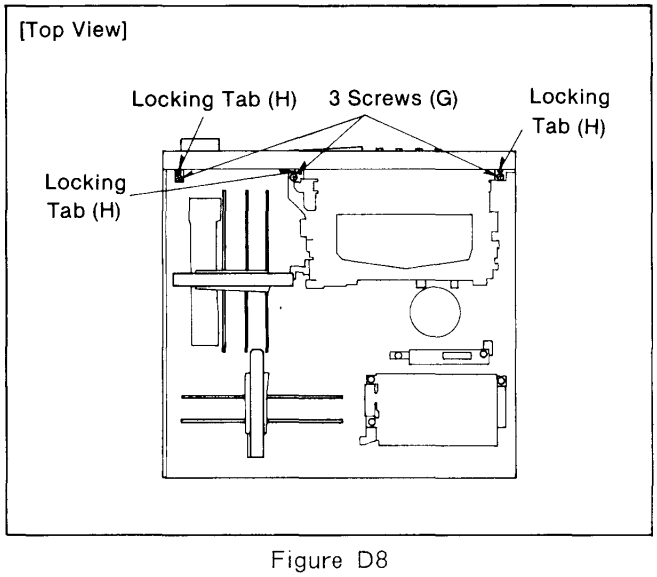


Figure D8

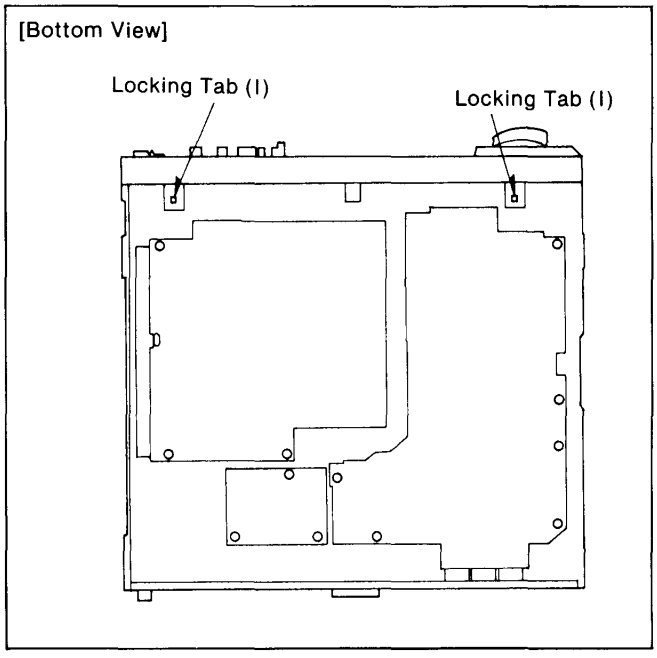


Figure D9

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

1. Unscrew the 4 screws (J) on the Search Dial Unit and pull out the connector P6207 (Figure D10).
2. Lift the Search Dial Unit.

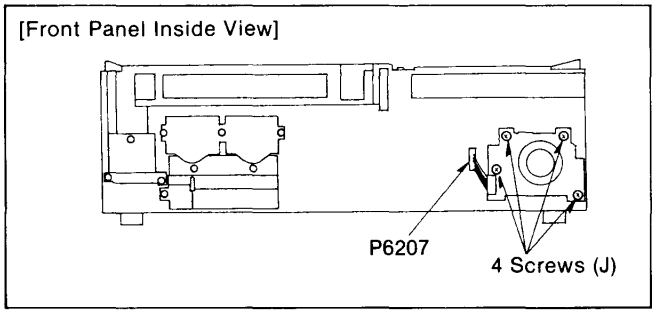


Figure D10

3. Unscrew a screw (K) on the Front C.B.A. (Figure D11).
4. Unlock the 3 locking tabs (L) on the Front C.B.A. and carefully lift the Front C.B.A.(Figure D11).

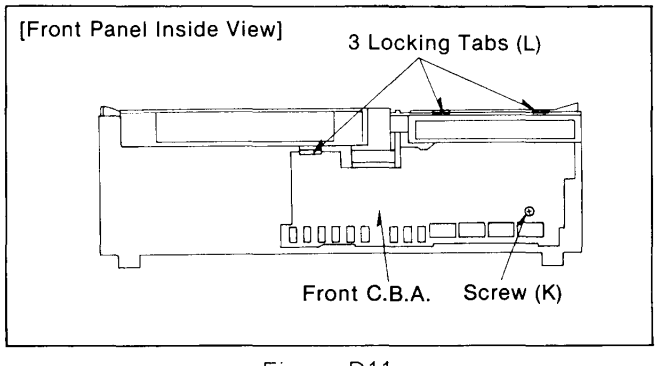


Figure D11

2-2-8. Removal of the Audio Meter Unit

1. Unscrew the 6 screws (M) on the Audio Meter Unit (Figure D12).
2. Lift the Audio Meter Unit.

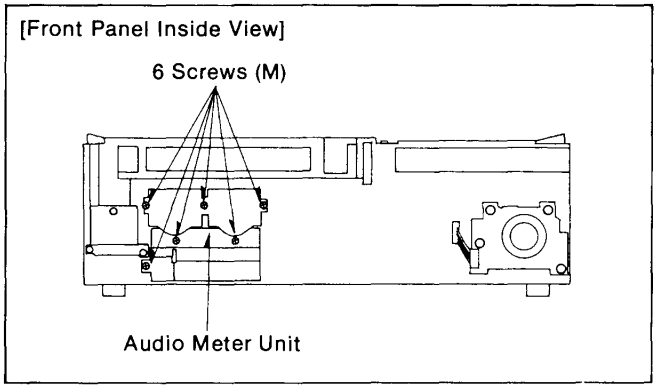


Figure D12

2-2-9. Removal of the Mic Jack Unit

1. Unscrew the 3 screws (N) on the Mic Jack Unit (Figure D13).
2. Lift the Mic Jack Unit.

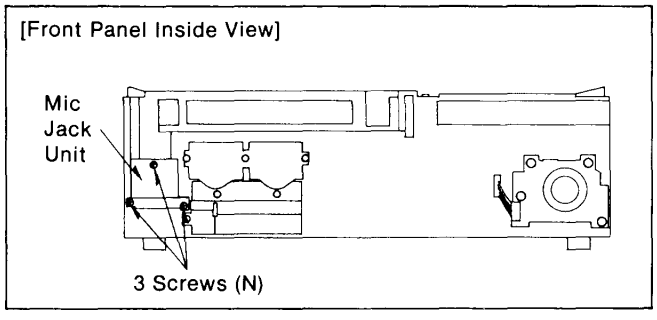


Figure D13

2-2-10. Removal of the Head Amp C.B.A.

1. Unscrew the 2 screws (O) on the Head Amp C.B.A. (Figure D14).
2. Pull out the Head Amp C.B.A.

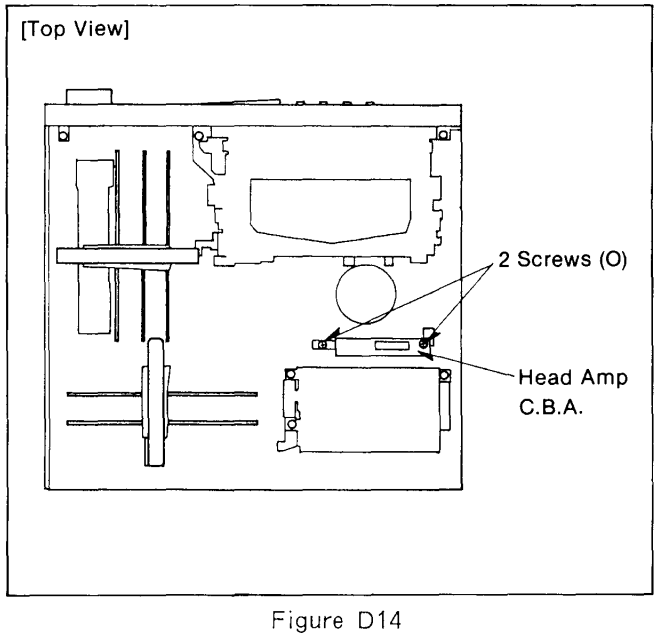


Figure D14

2-2-11. Removal of the Power Unit

1. Unscrew the 3 screws (P) on the Power Unit (Figure D15).
2. Pull out the Power Unit.

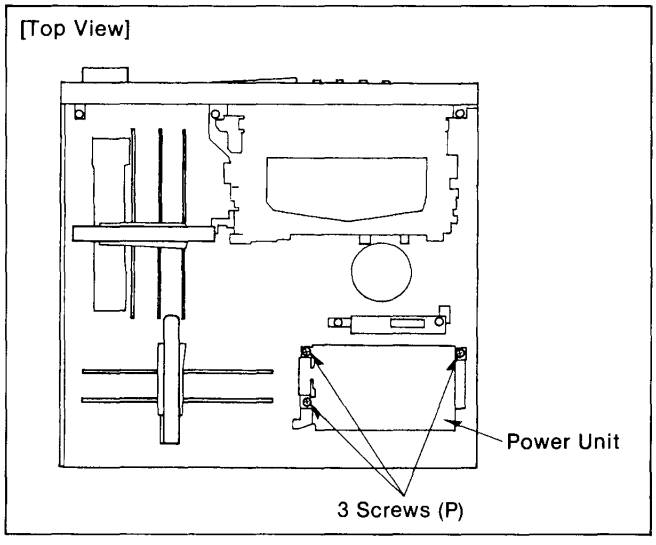


Figure D15

2-2-12. Removal of the Power Connection C.B.A.

1. Unscrew the 2 screws (Q) on the Rear Panel (Figure D16).

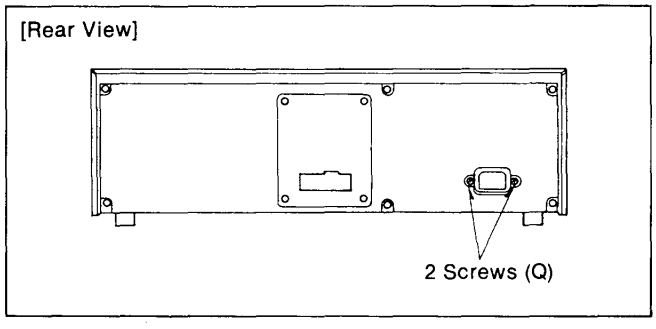


Figure D16

2. Unscrew the 4 screws (R) on the Power Connection C.B.A. (Figure D17).
3. Carefully lift the Power Connection C.B.A.

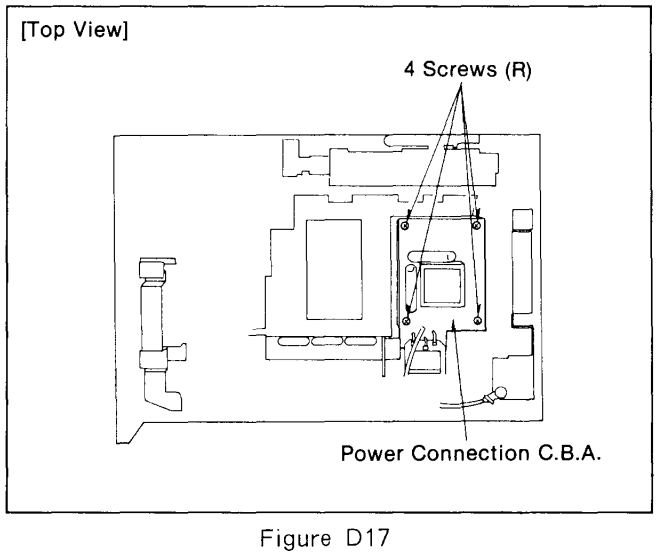


Figure D17

2-2-13. Opening of the C.B.Hold Piece (A) and (B)

1. Open the C.B. Hold Piece (A) and (B) from unit by minus driver or the same (Figure D18 and Figure D19).

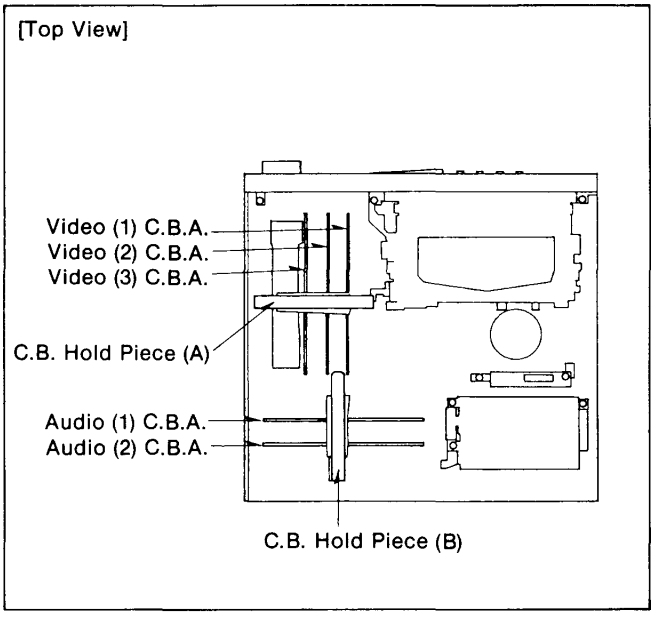


Figure D18

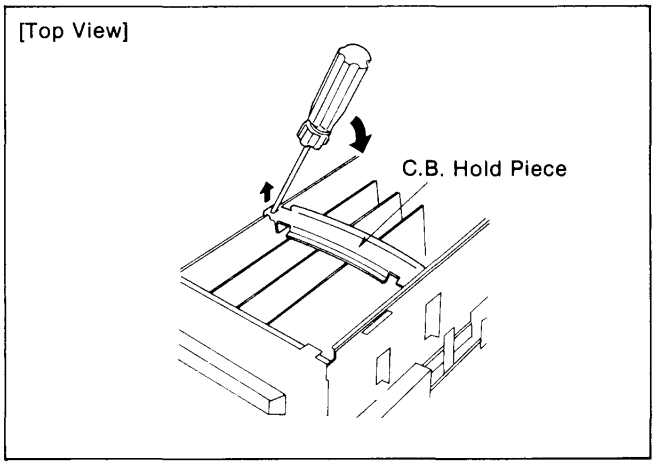


Figure D19

2-2-14. Removal of the Video (1) C.B.A., Video (2) C.B.A. and Video (3) C.B.A.

1. Open the C.B. Hold Piece (A) as shown in Figure D18.
2. Carefully pull out the Video (1) C.B.A., Video (2) C.B.A. and Video (3) C.B.A. from Mother C.B.A.

2-2-15. Removal of the Audio (1) C.B.A. and Audio (2) C.B.A.

1. Open the C.B. Hold Piece (B) as shown in Figure D18.
2. Carefully pull out the Audio (1) C.B.A. and Audio (2) C.B.A. from Mother C.B.A.

2-2-16. Opening of the Servo & System Control C.B.A.

1. Unscrew the 3 screws (S) on the Servo & System Control C.B.A. and open the Servo & System Control C.B.A. by unlock a locking tab (T)(Figure D20 and Figure D21).
2. Remove the flatcables (P6001, P6002 and P6003)(Figure D21).

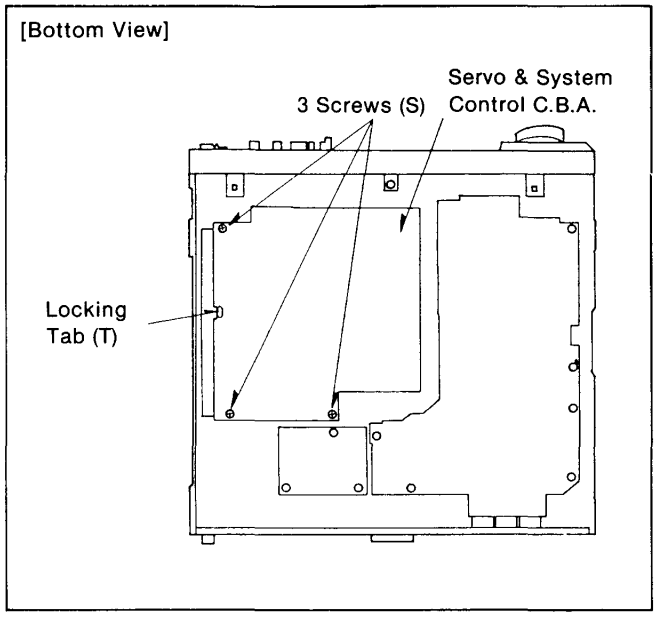


Figure D20

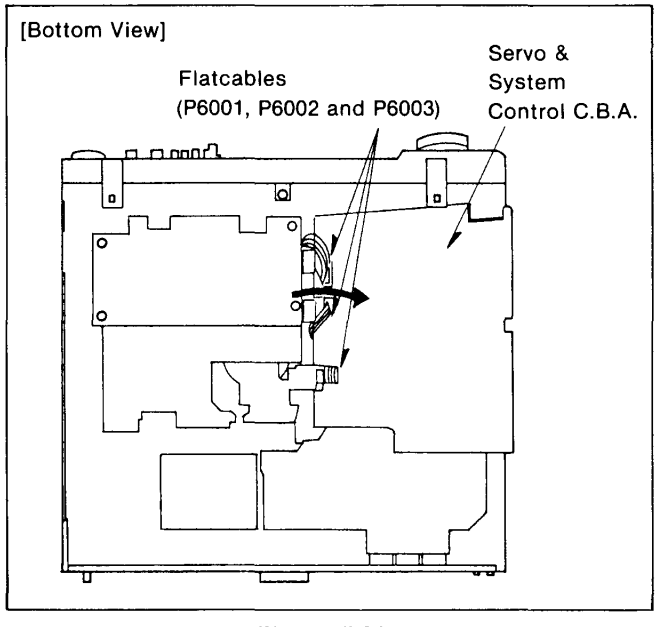


Figure D21

2-2-17. Removal of the Mother C.B.A.

NOTE : Before removing the Mother C.B.A., be sure to remove the Front C.B.A., Rear Jack C.B.A. Video (1) C.B.A., Video (2) C.B.A., Video (3) C.B.A., Audio (1) C.B.A. and Audio (2) C.B.A.

1. Unscrew the 8 screws (U) on the Mother C.B.A. (Figure D22).
2. Lift the Mother C.B.A.

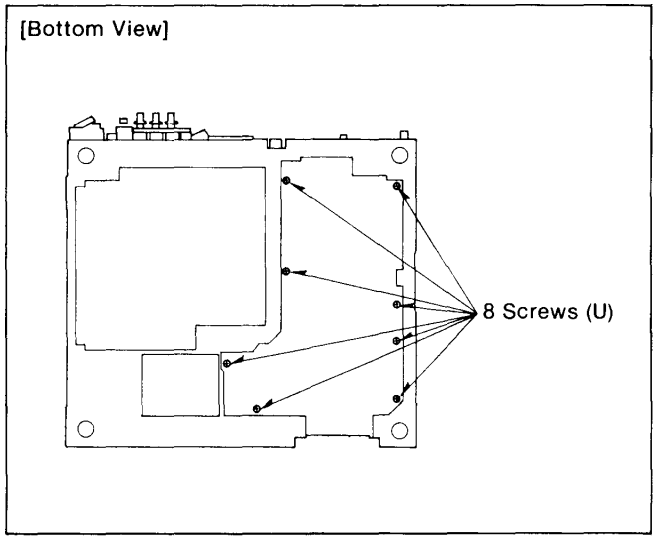


Figure D22

2-2-18. Removal of the Power Detection C.B.A.

1. Unscrew the 3 screws (V) on the Power Detection C.B.A. (Figure D23).
2. Unlock a locking tab (W) on the Power Detection C.B.A. and lift the Power Detection C.B.A. (Figure D23).

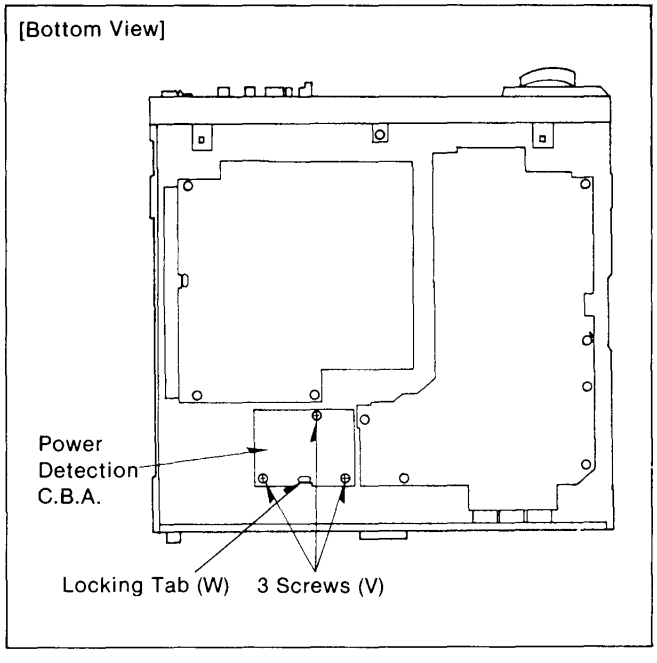


Figure D23

2-2-19. Removal of the Reel Servo C.B.A.

1. Unscrew the 4 screws (X) on the Reel Servo C.B.A. (Figure D24).
2. Lift the Reel Servo C.B.A.

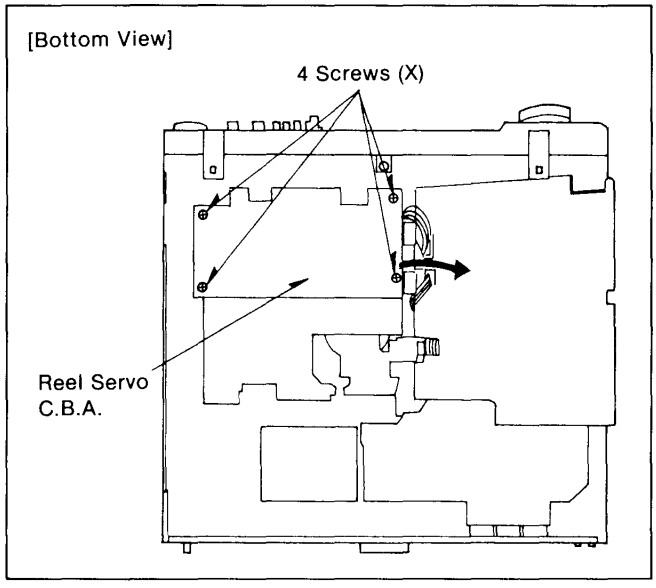


Figure D24

2-2-20. Removal of the Cassette Compartment Unit

1. Unscrew the 2 screws (Y-1) and a screw (Y-2)(Figure D25).
2. Disconnect 2 wires and 4 wires from P1508 on the right side of the Cassette Compartment Unit (Figure D25).
3. Remove the Top Plate.

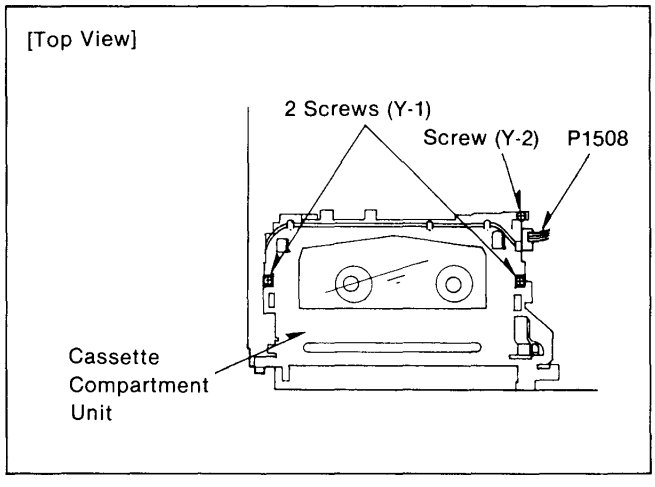


Figure D25

4. Remove a cassette holder unit.

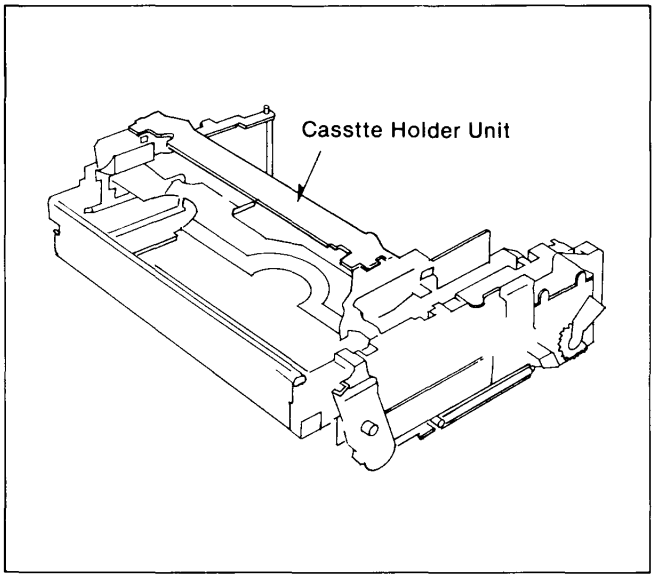


Figure D26

5. Unscrew the 4 screws (Z) and remove the Cassette Compartment Unit.

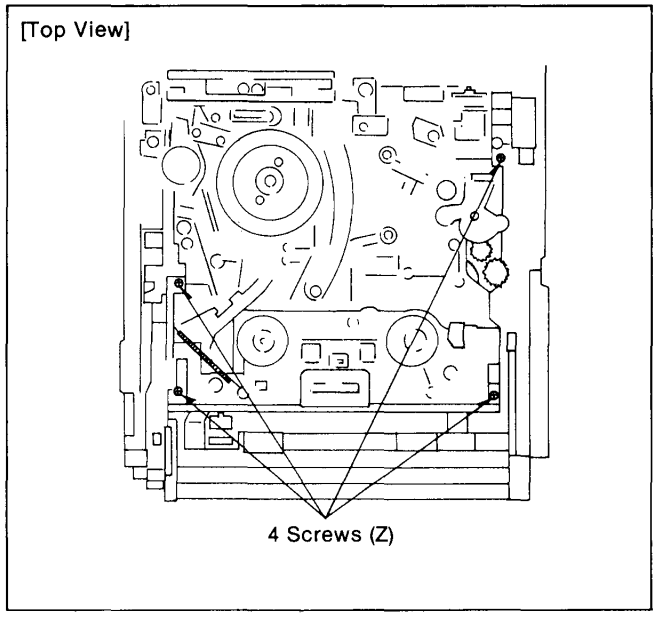
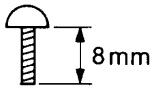
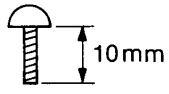
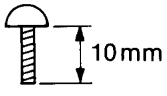
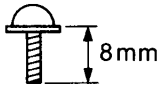
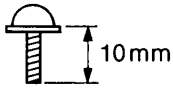
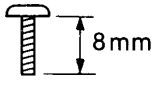
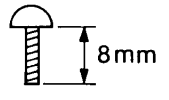
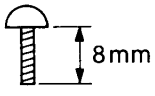


Figure D27

Note : When installing the Cassette Compartment Unit, refer to Mechanical Adjustment Procedures.

SCREWS

(A)  VHD0222	(B)  VHD0426	(C)  VHD0059	(D),(E),(Q)  8mm XTV3+8FFZ(BLACK)	(G),(M),(N),(P),(S), (U),(V),(X)  10mm XTV3+10JFR(RED)
(J),(K)  10mm XTV4+10JFR (RED)	(O)  8mm XTW3+8LR (RED)	(R)  10mm XTW3+10JFR (RED)	(Y-1)  8mm XTV3+8FB	(Y-2)  8mm XTV26+8G (RED)
(Z)  8mm XTV26+8FR (RED)				

Section 3

MAINTENANCE

CONTENTS

3-1. REGULAR MAINTENANCE

The purpose of periodic maintenance is to preserve the functioning of this machine throughout it's 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, to poor environmental conditions may adversely affect the life-span 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.
Please note that the recommended maintenance schedule depends on temperature and humidity.

3-2. 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 Transporters	●	●	●	●	●	●	●	●	●	●	1-7	Loading Motor U								◎		
1-19	A/C Head (1) U	●	●	●	●	●	●	●	◎	●	●	1-48	Inclind Base (S) (2) U								■		
1-56	FE Head (AG-7350 ONLY)	●	●	●	●	●	●	●	◎	●	●	1-45	Inclind Base (T) (1) U								■		
1-41	Upper Cylinder U	●	◎	●	◎	●	◎	●	◎	●	◎	1-51	Head Cleaning U		◎		◎		◎		◎		◎
1-42	Lower Cylinder U	●	●	●	●	●	◎	●	●	●	●	1-36	Mode SW								◎		
2-28	Capstan Rotor U (Shaft)	●	●	●	●	●	●	●	●	●	●	2-7	Reel Motor U								◎		
1-25	Pressure Rooler U	●	●	●	◎	●	●	●	◎	●	●	2-39	Loading Cam Gear				×				×		
2-16	Main Brake (S) U				◎				◎			2-33	Main Cam Gear								■		
2-18	Main Brake (T) U				◎				◎			2-1	Worm Shaft								■		
2-2	Loading Belt				◎				◎			2-3	Worm Wheel								■		
1-13	Phinch Solenoid										◎												

*** 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	———	———
■	Greasing	Molytone Grease (MOR265)	Wipe the old grease and apply new grease.
×	Greasing	S.C.R. Grease (VFK0680)	Wipe the old grease and apply new grease.

3-3. PARTS LOCATION

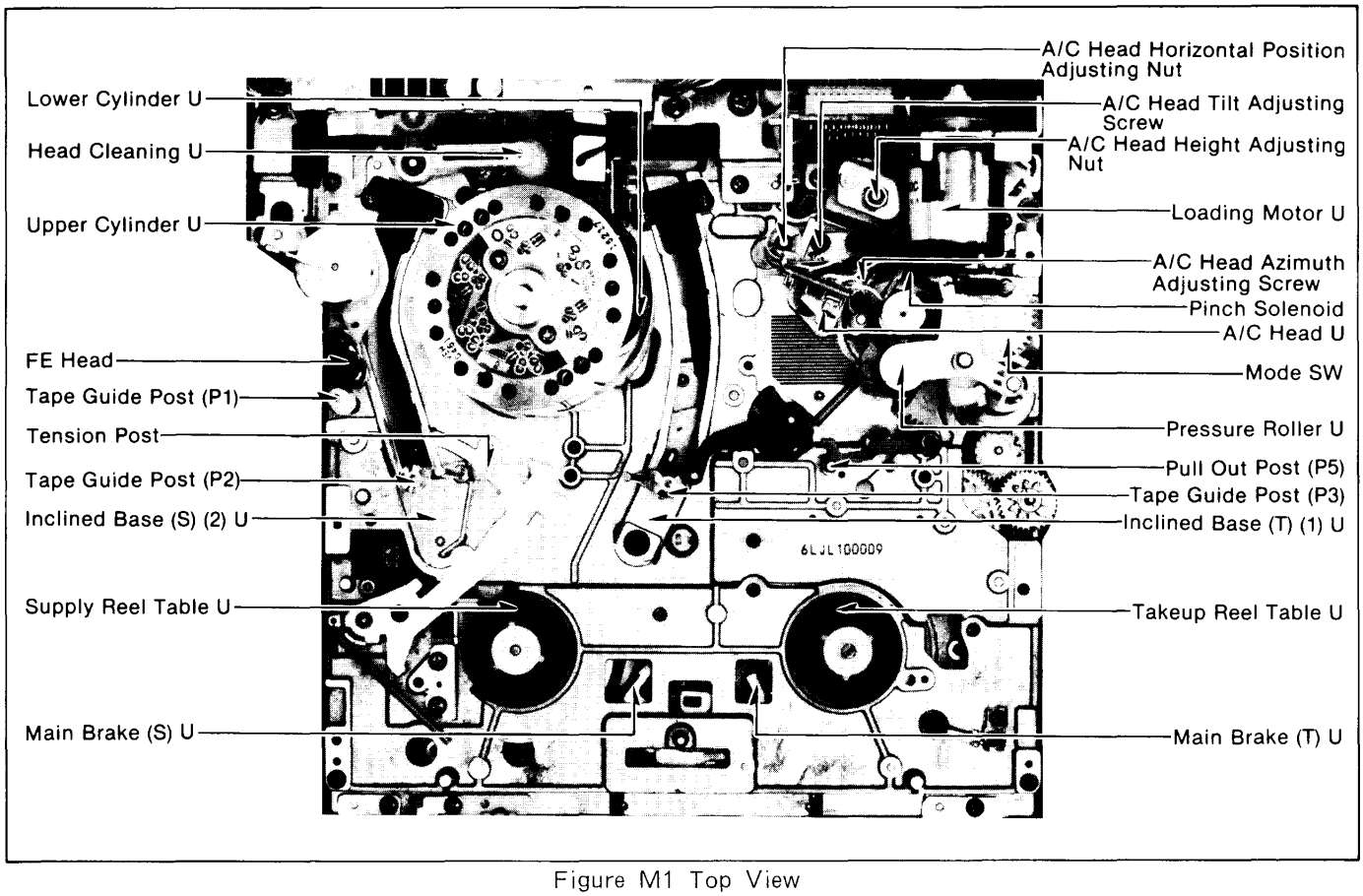


Figure M1 Top View

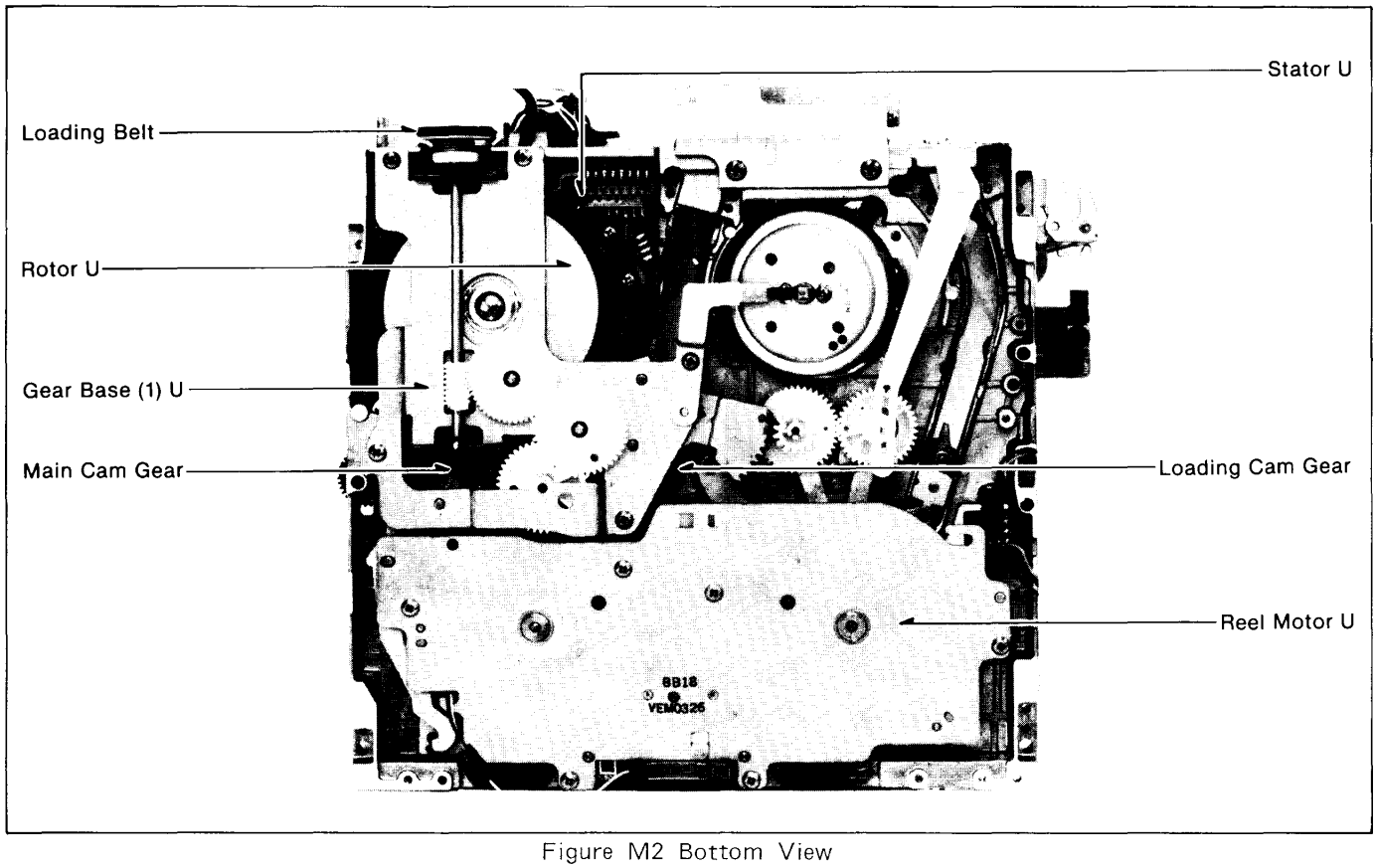


Figure M2 Bottom View

3-4. MAINTENANCE PROCEDURES

3-4-1. HOW TO EJECT MANUALY

If the electrical circuit is defective and the action of unloading and front unloading don't work properly, it is possible to eject manually as follows.

1. Take out the Main AC.
2. Release the direction as shown in Figure M3.
3. Rotate the Wormshaft to clockwise until cassette is ejected.

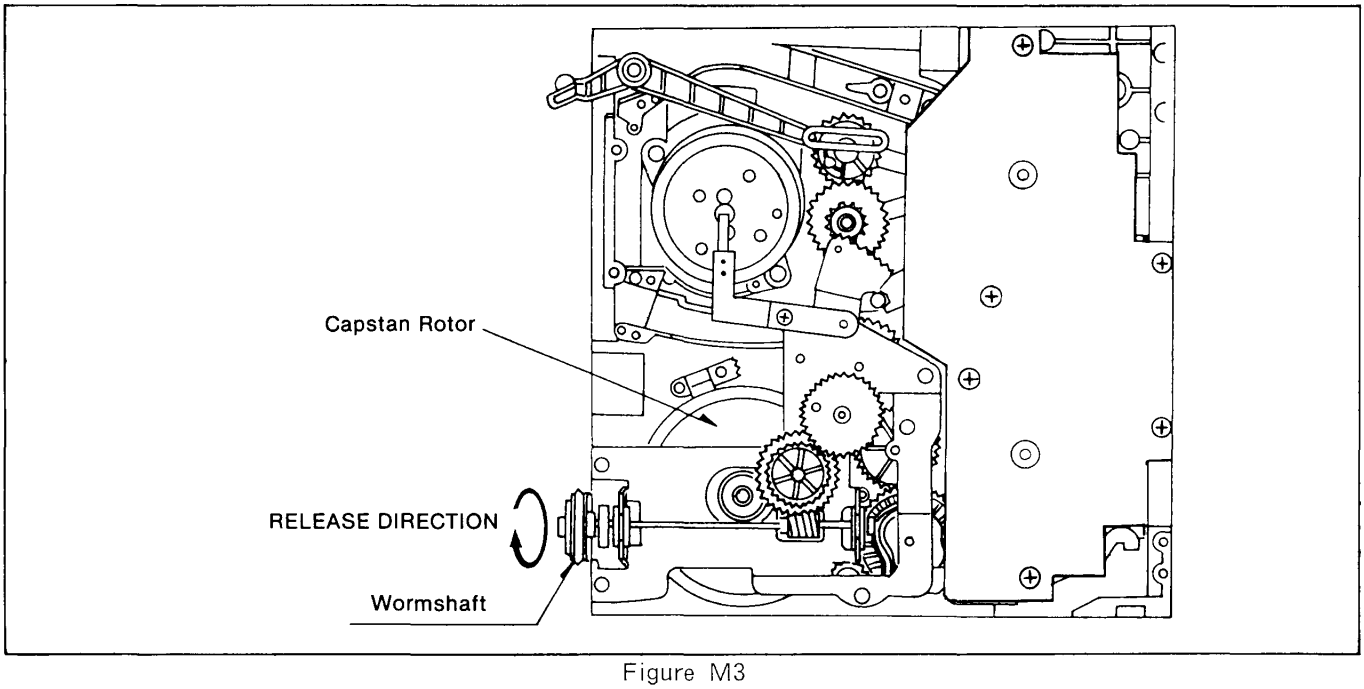


Figure M3

3-4-2. CYLINDER MAINTENANCE PROCEDURES

A. Procedures for Cleaning of the Cylinder Unit

1. Position the video head to permit access for cleaning and hold the upper cylinder to keep it from turning while cleaning.
2. Gently rub the video head in direction of tape travel with Head Cleaning Stick moistened with Cleaning Liquid.
3. Repeat for the other video heads. (Figure M4)

*Notes:
1. Do not rub vertically.
2. Do not apply any pressure to heads.

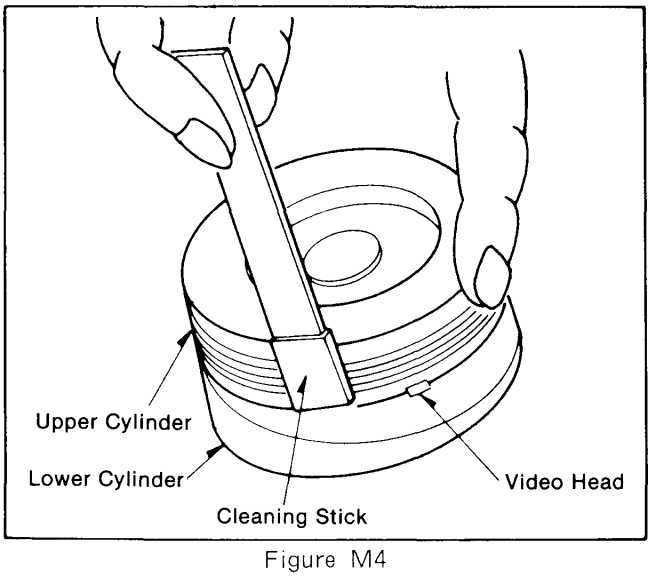


Figure M4

B. Replacement of the Upper Cylinder Unit

1. First remove two screws as shown in Figure M5. Then unsolder 16 (Figure M6) of the soldered portions indicated by arrows on the Upper Cylinder, and finally remove the Upper Cylinder.

*Note: Soldered portion can be easily removed by using solder sucking wire, etc.

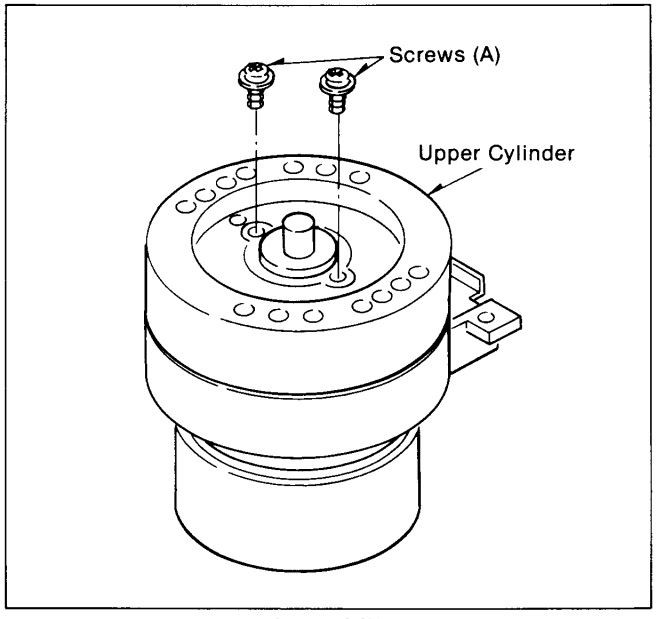


Figure M5

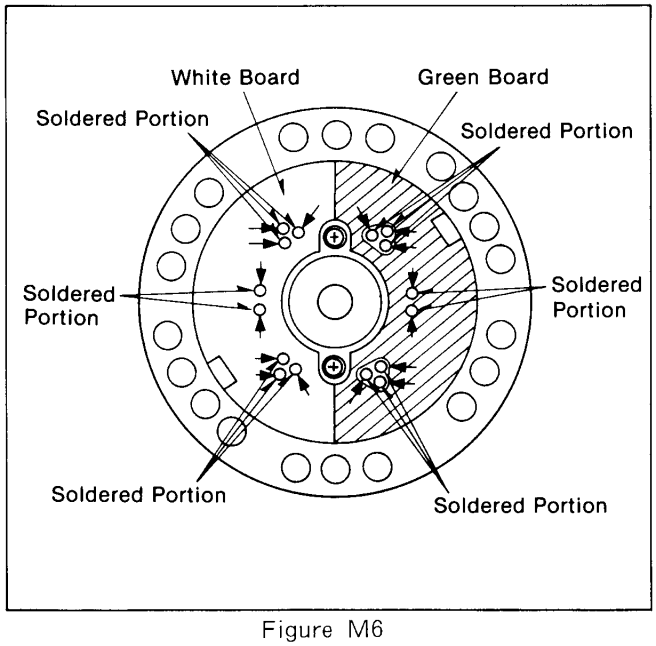


Figure M6

2. The Upper Cylinder unit can be reinstalled by reversing the removal procedure.
However, when Upper Cylinder is installed, be extremely carefully so that white portion of P.C. board of Upper Cylinder correctly matches the white portion of bottom cylinder as shown in Figure M7.

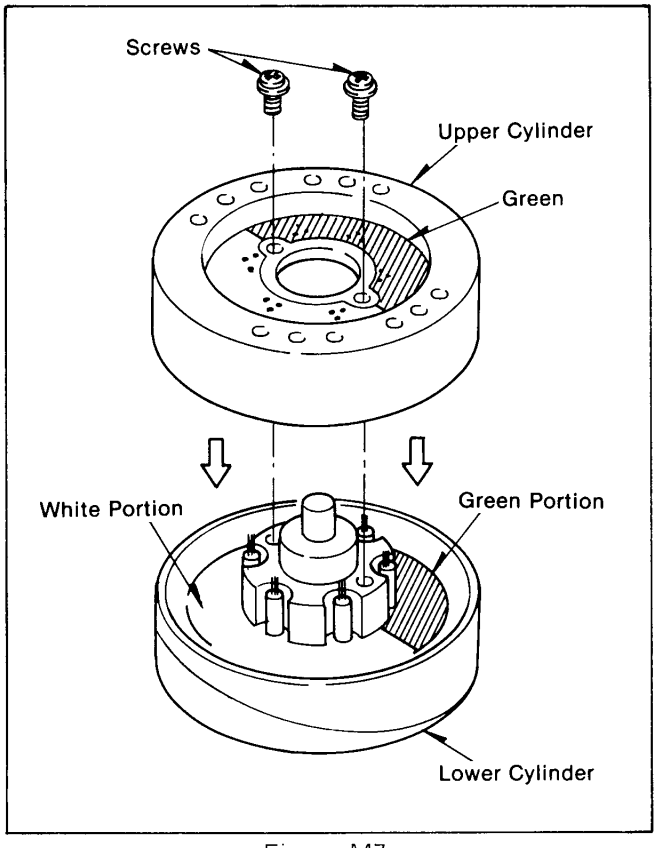


Figure M7

*Note: If the Upper Cylinder Unit is reversal installed, no color will appear when playing back pre-recorded tapes.

C. Replacement of the Lower Cylinder Unit

1. Disconnect 2 connectors.(Figure M8)

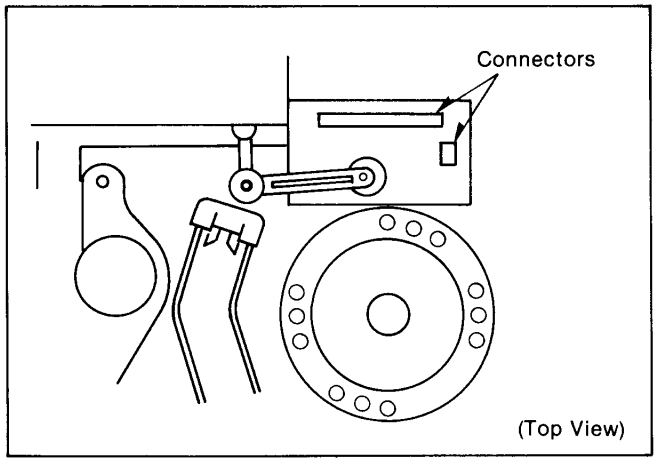


Figure 2-8

2. Remove the Cleaning Rod from bottom side.
3. Disconnect a connector (D).
4. Unscrew 3 screws (C). Since there is very little clearance between DD Cylinder (Lower Cylinder) Unit and Chassis, remove the Cylinder gently and carefully. (Figure M9).

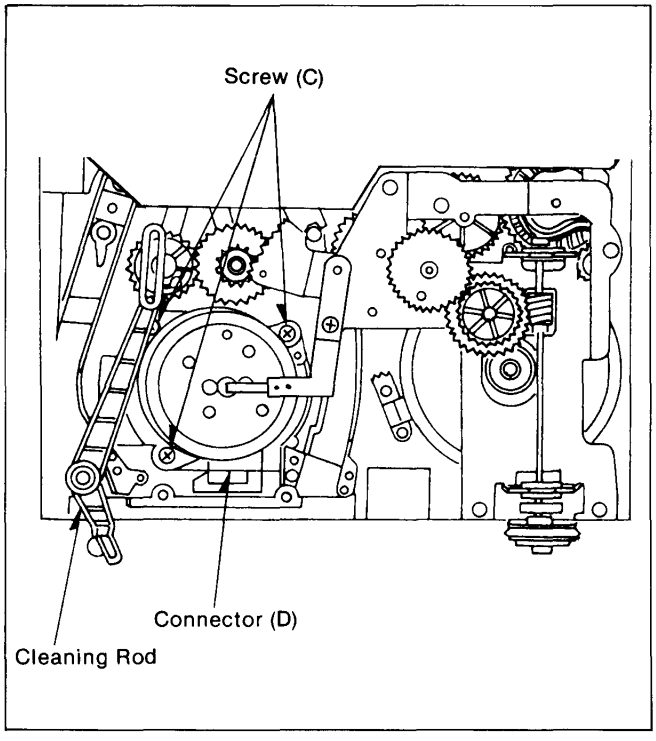


Figure M9

5. Reinstall the new DD Cylinder (Lower Cylinder) Unit in the chassis, tighten the 3 screws (C). Then connect a connectors and reinstall the Cleaning Rod.
6. Re-install the Head Amp C.B.A.

D. Adjustment After Re-Installing

Figure M10 shows the order of steps for adjusting the mechanical and electrical.

These adjustments should be performed after completion of reinstalling the Upper Cylinder or Lower Cylinder Unit.

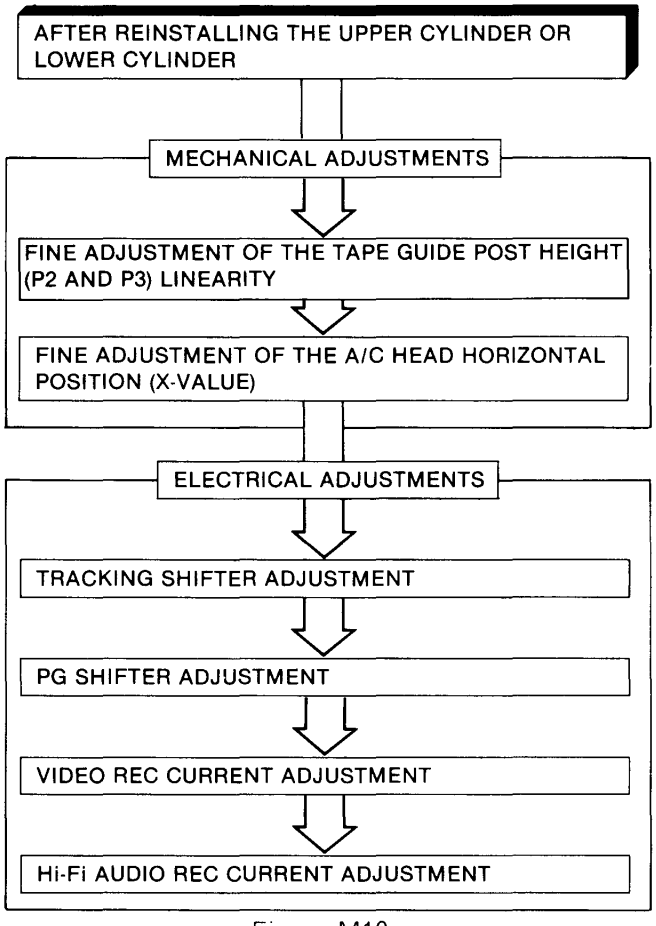


Figure M10

3-4-3. A/C HEAD MAINTENANCE PROCEDURES

A. Replacement of the A/C Head (1) Unit

1. Disconnect a connector (H). (Figure M11)
2. Unscrew 3 screws (E)(F)(G) with a spring and then remove the A/C Head (1) Unit (Figure M11).

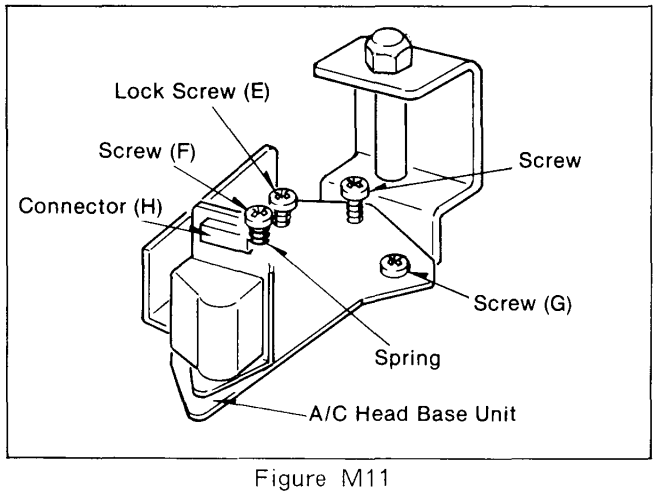


Figure M11

3. The A/C Head (1) Unit can be reinstalled by reversing the removal procedure.

B. Adjustment After Re–installing

Figure M12 shows the order of steps for adjusting the mechanical and electrical. These adjustments should be performed after completion of reinstalling the A/C Head (1) Unit.

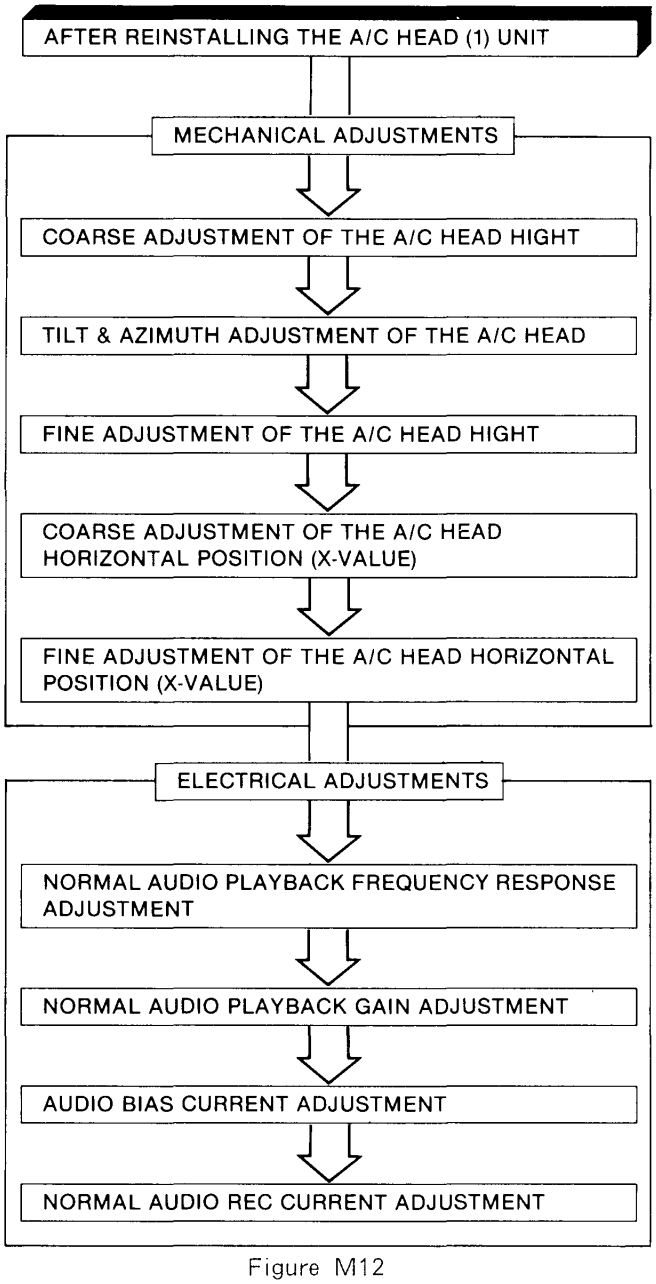


Figure M12

3-4-4. FULL ERASE HEAD MAINTENANCE PROCEDURE

A. Replacement of the Full Erase Head

1. Disconnect a connector (J).
2. Unscrew a screw (K) and remove the Full Erase Head.

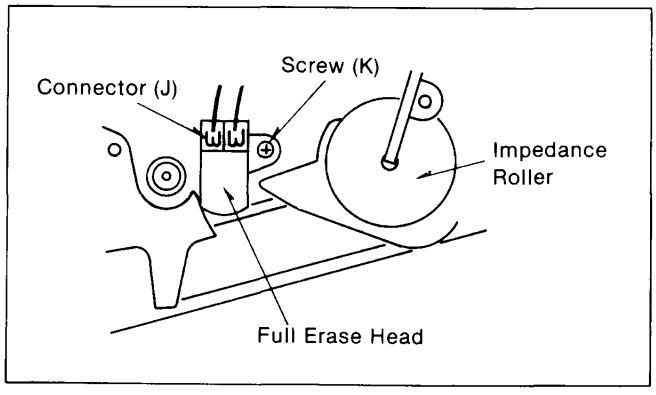


Figure M13

3. The new Full Erase Head can be reinstalled by reversing the removal procedure.

3-4-5. PRESSURE ROLLER MAINTENANCE PROCEDURES

A. Replacement of the Pressure Roller Unit

1. Place the deck in STOP or EJECT mode.
2. Remove the Pinch Can Cap.
3. Remove the Pressure Roller Unit.

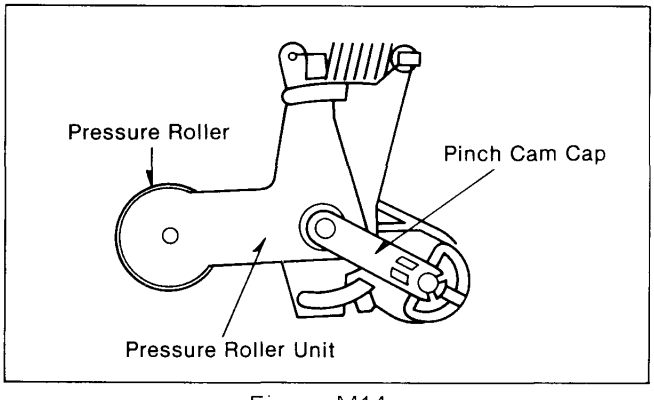


Figure M14

4. The new Pressure Roller Unit can be re–installed by reversing the removal procedure.

3-4-6. REEL MOTOR UNIT MAINTENANCE PROCEDURES

A. Replacement of the Reel Unit

1. Remove 6 screws (L) and carefully lift the DD Reel Unit.
2. Disconnect a connector.

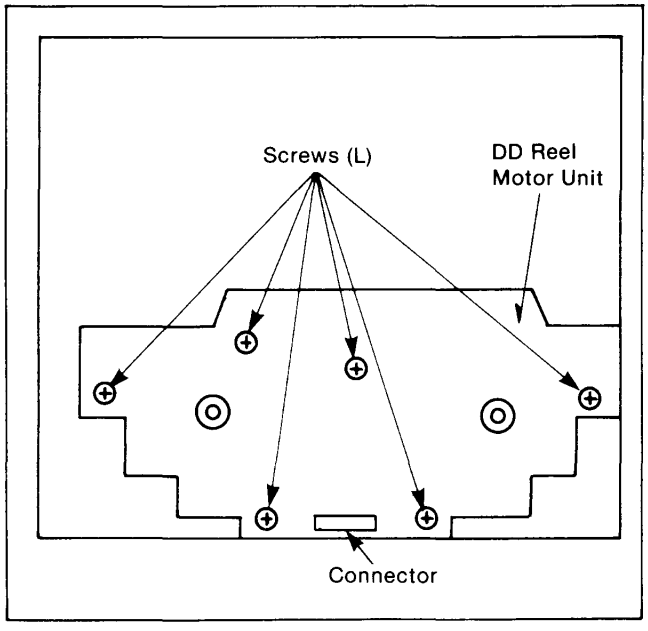


Figure M15

3. The Reel Motor Unit can be re-installed by reversing the removal procedure.

*Note: When assembling the DD Reel Motor Unit, slide the Main Rod to far left side by rotating a Center Gear.

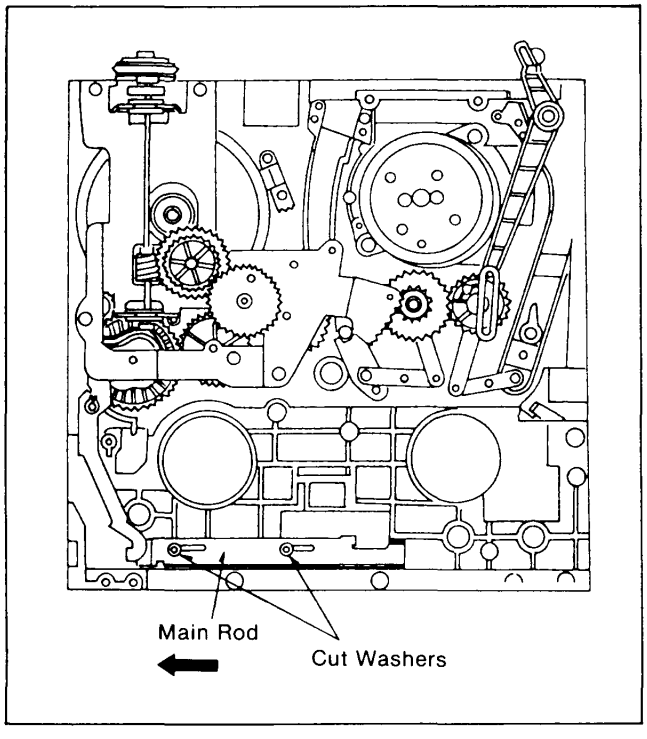


Figure M16

3-4-7. MAIN BRAKE (S),(T) UNIT MAINTENANCE PROCEDURES

A. Replacement of the Main Brake (S),(T) Unit

1. Remove the Reel Unit. (Refer to Reel Motor Maintenance Procedures.)
2. Remove a Retaining Ring.
3. Remove the Main Brake (S),(T) with a spring.

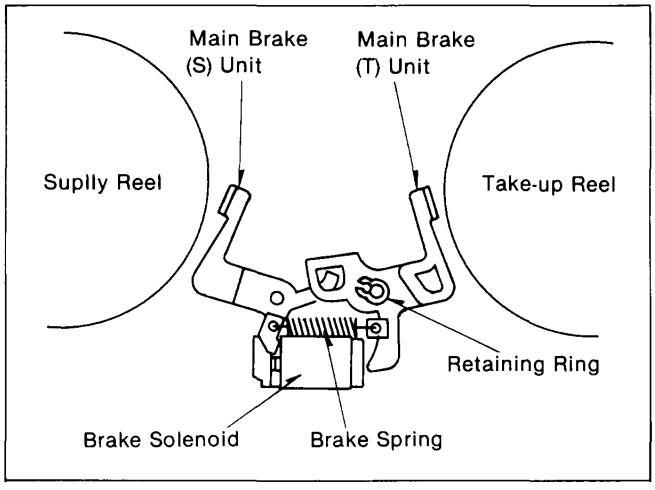


Figure M17

4. The new Main Brake (S),(T) Unit can be reinstalled by reversing the removal procedure.

*Note: When assembling the DD Reel Motor Unit, slide the Main Rod to far left side by rotating a Center Gear. (Figure M16)

3-4-8. LOADING MOTOR UNIT MAINTENANCE PROCEDURES

A. Replacement of the Loading Motor Unit

1. Remove the Loading Belt.
2. Remove the Loading Motor Pulley.
3. Disconnect a connector.
4. Unscrew 2 screws (M) and remove the Loading Motor Unit.

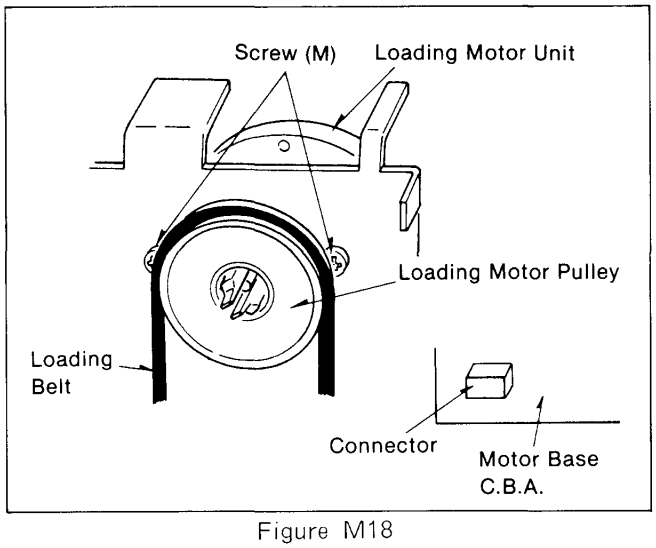


Figure M18

5. The Loading Motor Unit can be reinstalled by reversing the removal procedure.

3-4-9. HEAD CLEANING PAD UNIT MAINTENANCE PROCEDURES

A. Replacement of the Head Cleaning Pad

1. Remove a Cut Washer (N) and the Head Cleaning Pad Unit.
2. The Head Cleaning Pad Unit can be reinstalled by reversing the removal procedure.

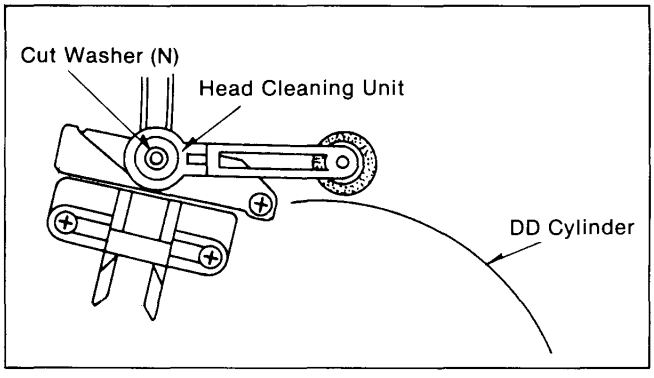


Figure M19

3-4-10. MODE SWITCH MAINTENANCE PROCEDURES

A. Replacement of the Mode Switch

1. Place the deck in the STOP mode.
2. Remove the Cassette Compartment Unit. (Refer to Disassembly Procedures)
3. Remove the Pinch Cam Cap and Pressure Roller Unit.
4. Remove the Pinch Cam.

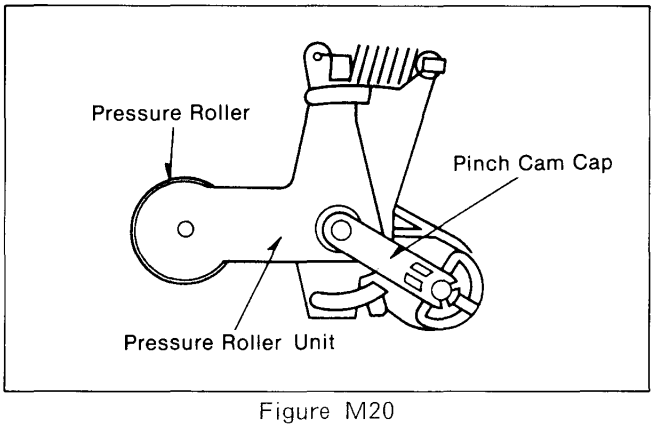


Figure M20

5. Unscrew 2 screws (P) and remove the Loading Motor Base.
6. Unscrew a screw (Q) and unsolder 5 of soldered portions.
7. Finally remove the Mode Switch.

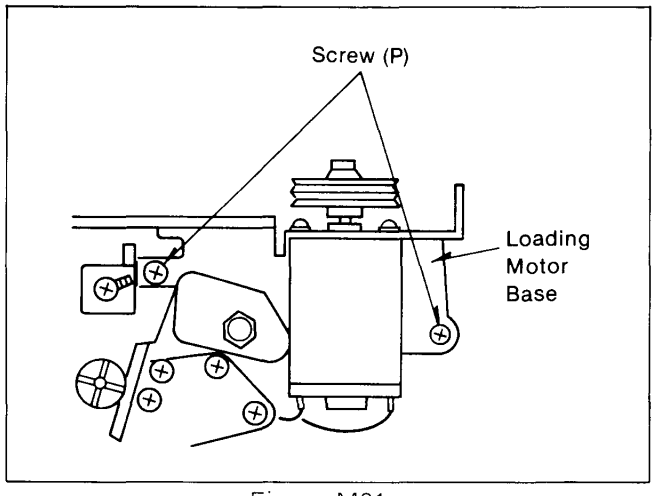


Figure M21

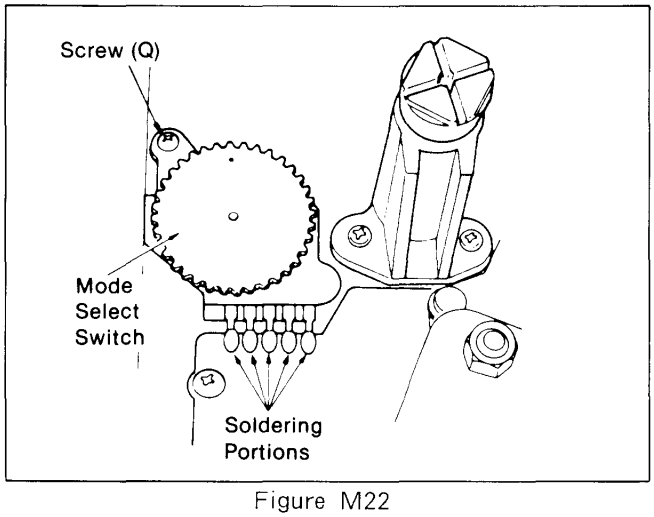


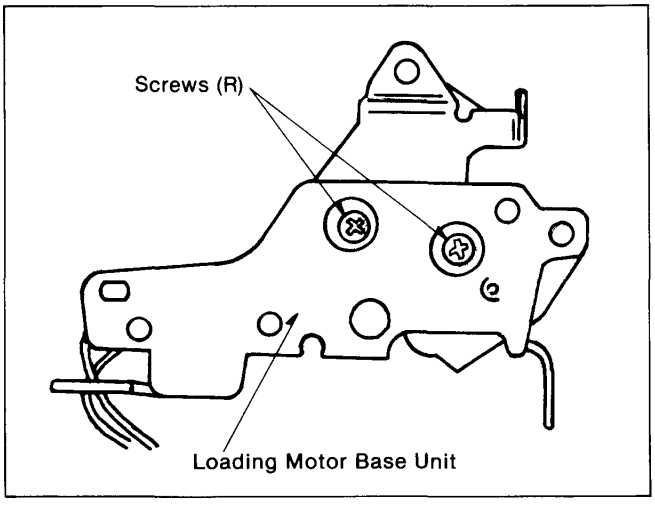
Figure M22

8. Install a Mode Switch and tighten screw (Q), then solder 5 soldering portions.
9. Install the Pinch Cam and Pressure Roller Unit. (Refer to " Assembly Procedures of Pinch Cam & Pressure Roller Unit.")
10. Install the Loading Motor Base and tighten screw (P).
11. Install the Cassette Compartment. (Refer to Reinstallation of Cassette Compartment.)

3-4-11. PINCH SOLRNOID MAINTENANCE PROCEDURES

A. Replacement of the Pinch Solenoid

1. Unscrew 2 screws (P) and remove the Loading Motor Base. (Figure M21)
2. Disconnect a connector (red) on the Motor Base C.B.A.
3. Unscrew 2 screws(R)(Figure M23) and remove the Pinch Solenoid.
4. Install a Pinch Solenoid and tighten 2 screws (P).
5. Install the Loading Motor Base and tighten 2 screws (P).(Figure M21)



B. Adjustment After Re-installing

Pressure Adjustment of the Pinch Roller (Refer to Mechanical Adjustment Procedures) should be performed after completion of reinstalling the Pinch Solenoid.

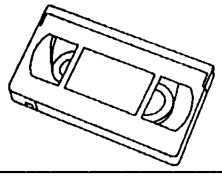
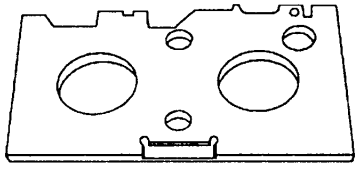
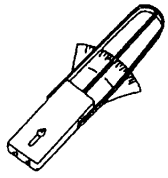
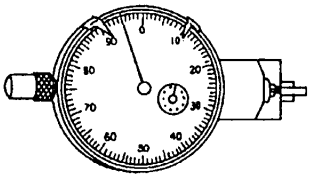
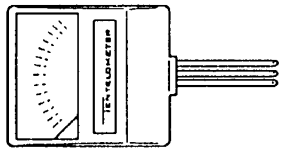
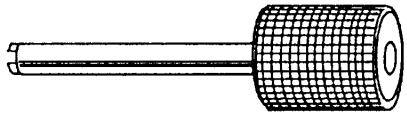
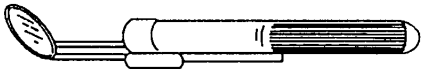
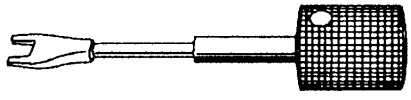
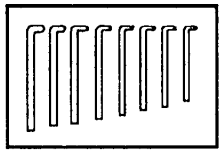
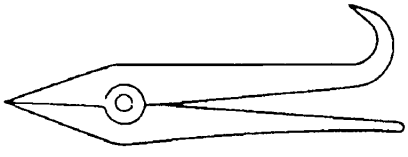
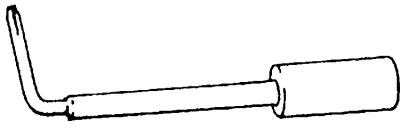
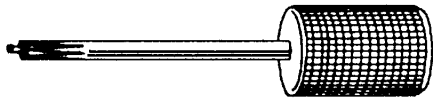
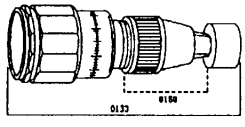
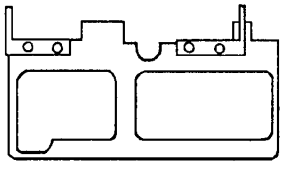
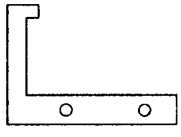
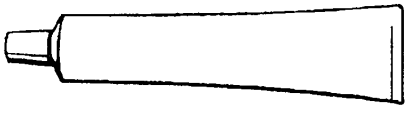
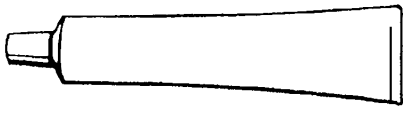
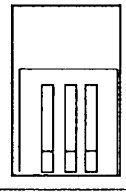
Section 4

MECHANICAL ADJUSTMENTS

CONTENTS

4-1. SERVICING FIXTURES AND TOOLS

The specified servicing fixture must be used to conduct adjustment.
The following fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

VFM8180HADH ; PAL VHS Alignment Tape VFM8080HQFP ; NTSC VHS Alignment Tape 	VFK0191 ; Post Adjustment Plate 	VFK66 ; Fan Type Tension Gauge 
VFK0190 ; Reel Table Height Fixture 	VFK0132 ; Back Tension Meter (Tentelometer, Made in U.S.A.) 	VFK0329 ; Post Adj.Screwdriver 
VFK0343 ; Check Light 	VFK0328 ; H-Position Adj. Screwdriver 	VFK0326 ; Hex. Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm) 
VFK0335 ; Retaining Ring Remover 	VFK0269 ; L Type Screwdriver 	VFK0330 ; Fine Adjustment Screwdriver (3mm ϕ) 
VFK0133 ; Dial Torque Gauge VFK0180 ; Plastic Clamper Only VFK0134 ; Adaptor for VFK0133 	VFK0236 ; Tension Post Adj. Plate 	VFK0578 ; Tension Sensor Adj. Fixture 
VFK0344 ; Post Height Adj. Fixture 	High Quality Machine Oil (Reel Shaft, Capstan Saft etc.) <<PURCHASE LOCALLY>>	Cleaning Liquid (Alchol) (Tape Transport Rubber Parts etc.) <<PURCHASE LOCALLY>>
MOR265 ; Morlytone Grease (Black) (for metal part) 	VFK0680 ; S.C.R. Grease (White) (for plastic part) 	VFK27 ; Head Cleaning Stick 

4-2. TAPE INTERCHANGEABILITY ADJUSTMENT PROCEDURES

4-2-1. ADJUSTMENT FLOW CHART

This flow chart describes the order of steps for adjusting the tape guide posts and A/C head in order to gain access to the items needing servicing. (Figures M1 and M2)

AFTER RE-INSTALLING THE UPPER CYLINDER OR LOWER CYLINDER

- 4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3)(LINEARITY)
- 4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

AFTER RE-INSTALLING ALL POSTS OR IF ALL POSTS HAVE BEEN TURNED EXTREMELY

- 4-2-2. COARSE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHTS (P2 AND P3)
- 4-2-3. ADJUSTMENT OF THE PULL-OUT POST (P5) HEIGHT
- 4-2-5. TILT AND AZIMUTH ADJUSTMENT OF THE A/C HEAD
- 4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 AND P3)(LINEARITY)
- 4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT

AFTER RE-INSTALLING THE A/C HEAD

- 4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT
- 4-2-5. TILT AND AZIMUTH ADJUSTMENT OF THE A/C HEAD
- 4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT
- 4-2-8. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)
- 4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

AFTER RE-INSTALLING THE PULL-OUT (P5) POST

- 4-2-3. ADJUSTMENT OF THE PULL-OUT POST (P5) HEIGHT

<<NOTE>>

Do not re-adjust any other posts.

Figure M1

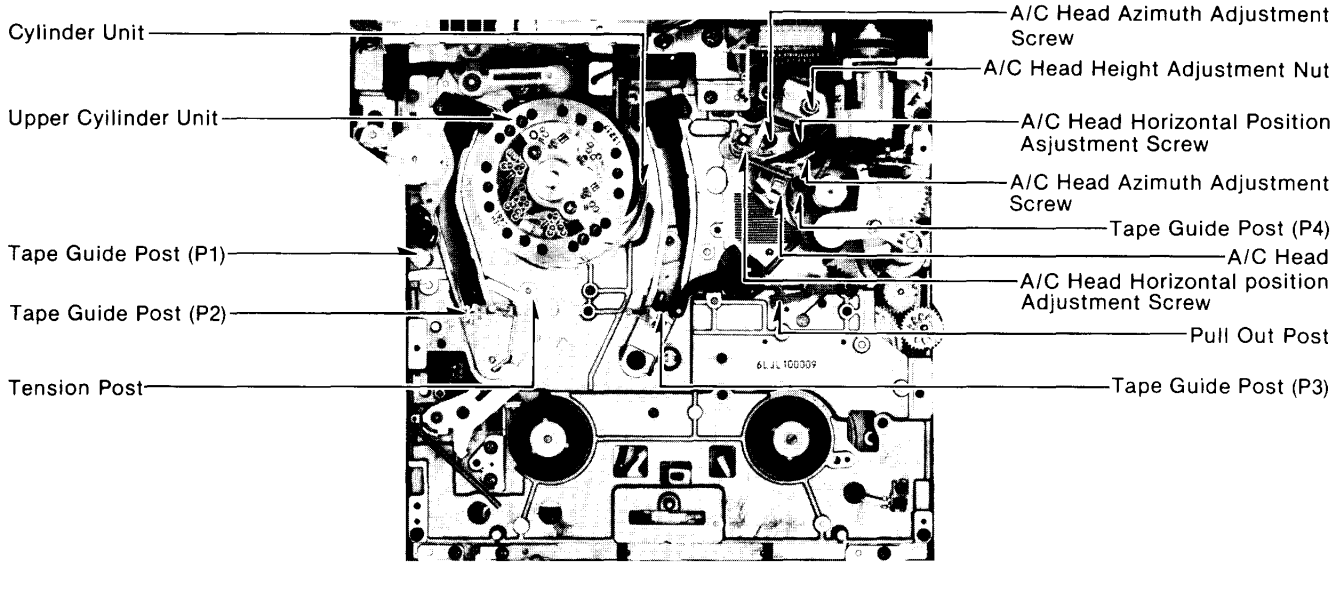


Figure M2

4-2-2. COARSE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHTS (P2 and P3)

<<NOTE>>

The Tape Guide Posts have been precisely adjusted at the factory. Therefore, normally do not change the height of the P2 and P3 Posts.
The following adjustment is required only when replacing the posts.
To prevent the alignment tape from being damaged, use a normal cassette tape for this procedure.

<<TOOL>>

Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190
Post Adjustment Screwdriver ; VFK0329
Check Light ; VFK0343
L Type Screwdriver ; VFK0326

1. Remove the cassette compartment. (Refer to Disassembly Procedures)
2. Place the Post Adjustment Plate over the reel tables. Confirm that the Post Adjustment Plate is firmly seated as shown in Figure M3.

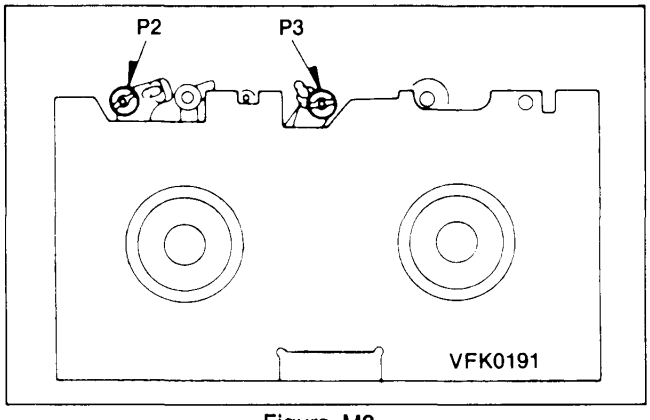


Figure M3

3. Lower 2 tape guide posts (P2 and P3) by turning the Post Adjustment screwdriver so that the condition of post becomes as shown in Figure M4. That is the lower edge of Tape guide should be lower than surface of Adjustment Plate.

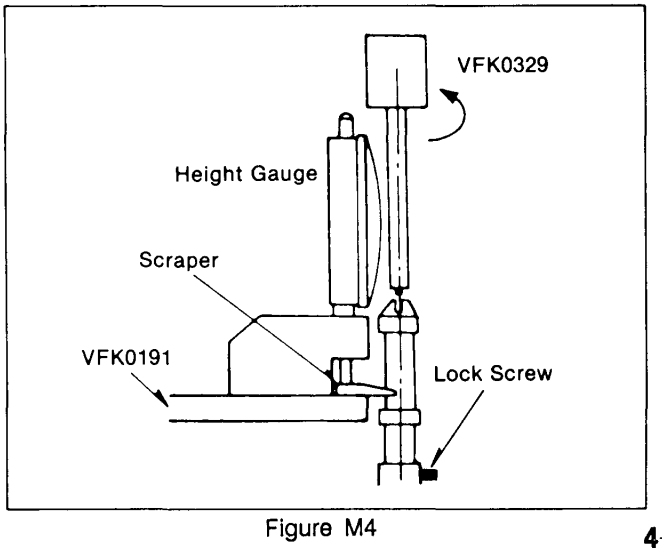


Figure M4

<<NOTE>>

Before turning P2 and P3 posts, slightly loosen the Lock Screw using the L Type Screwdriver.

4. Place the scraper of Reel Table Height Gauge as shown in Figure M5.
   Set the gauge to zero, then raise the post slowly until the lower tape guide just touches the bottom of the scraper. Use the gauge to determine the exact point at which the lower tape guide touches the scraper.

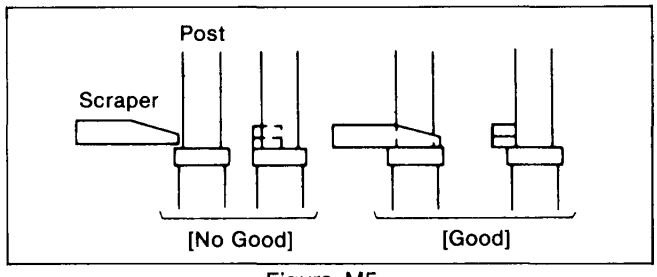


Figure M5

5. After the adjustment, install the cassette compartment referring to Reinstallation of cassette compartment.
6. Play back the beginning portion of NV-E180 cassette tape, and confirm that tape travel as shown in Figure M6.

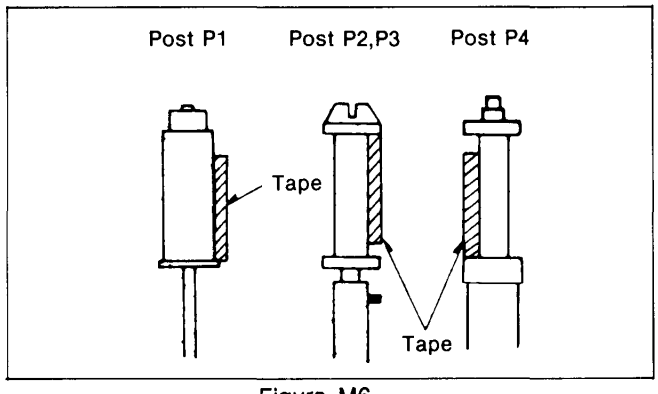


Figure M6

7. Make sure that the edges of the tape are not curling or waving at the bottom or top end of the posts P2, P3 by using the Check Light.
8. If there are waving or frilling at the lower or upper edge of the P2 and P3 posts, readjust the heights of P2 and P3 Posts correctly as shown in Figure M7.

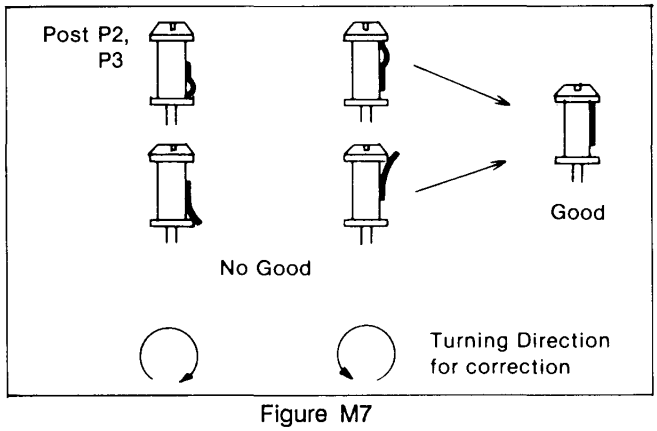


Figure M7

9. And confirm that the tape runs along the Cylinder Lead Correctly.

4-2-3. ADJUSTMENT OF THE PULL OUT POST (P5) HEIGHT

<<TOOL>>
Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190
Nut Driver ; Purchase locally

<<SPEC>>
- 0.03mm +/- 0.01mm

<<NOTE>>
Unless the replacement or adjustment this post is required, the adjustment nut should not be turned.

1. Remove the cassette compartment. (Refer to Disassembly procedures)
2. Place the Post Adjustment Plate over the reel tables.
3. Turn the Worm Shaft counterclockwise (loading direction) until the mechanical condition becomes as shown in Figure M8.

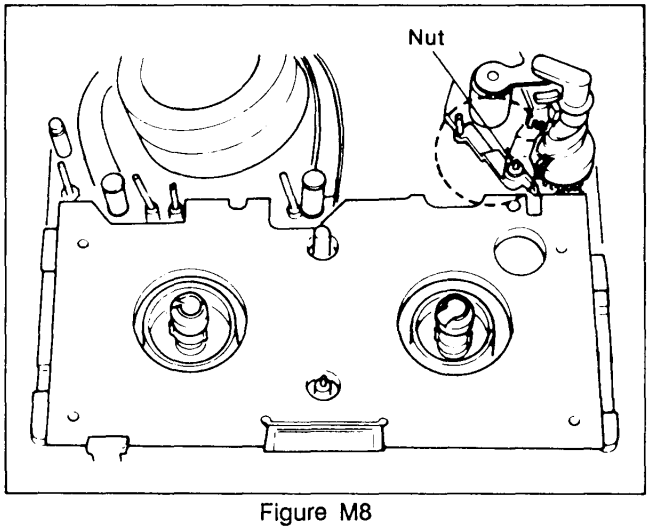


Figure M8

4. Place the Reel Table Height Gauge on the Post Adjustment Plate and set the gauge to zero 0 as shown in Figure M9.

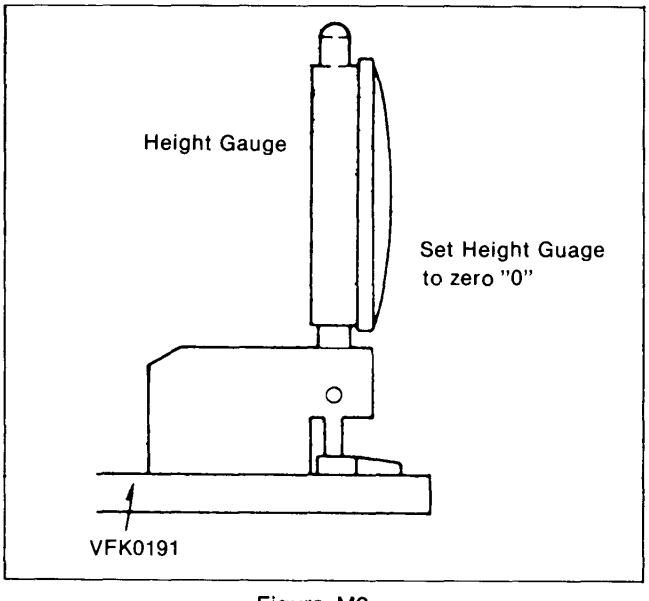


Figure M9

5. Place the Reel Table Height Gauge as shown in Figure M10 and turn the nut slowly until the gauge reads - 0.03mm +/- 0.01mm.

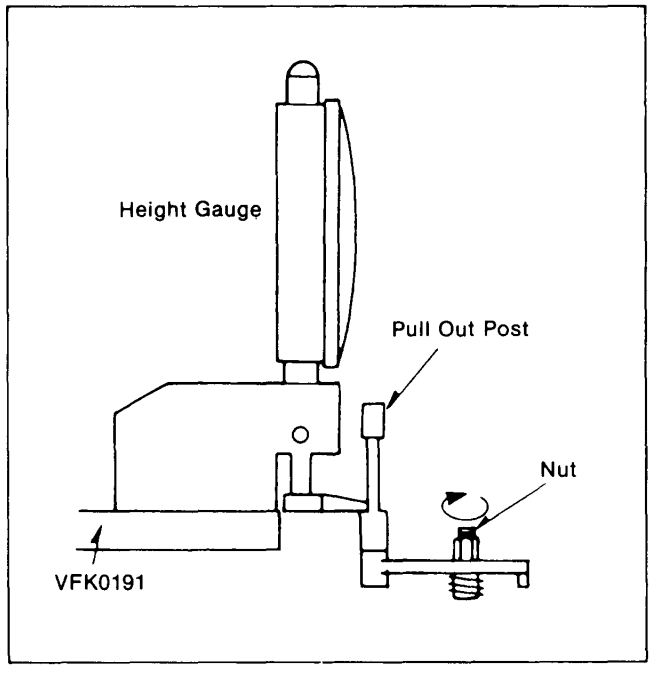


Figure M10

6. After the adjustment, install the cassette compartment. (Refer to Reinstallation of Cassette Compartment).
7. Play back a normal cassette tape on Review Search mode, and make sure that the edges of the tape are not curling or waving at the bottom end of the P4 post by using the Check Light as shown in Figure M11.

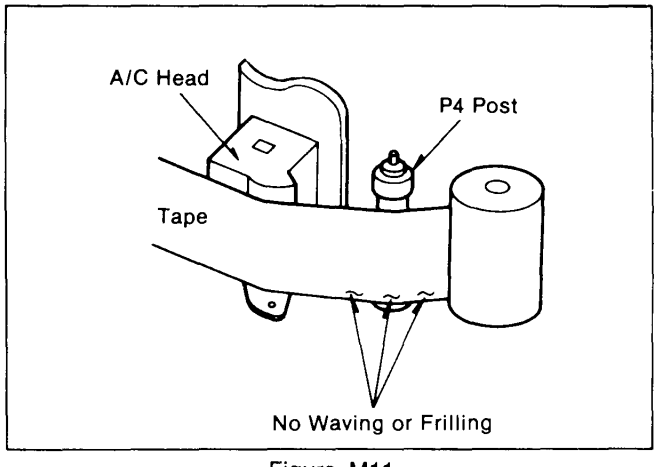


Figure M11

<<NOTE>>
There is easy method to check Waving or Frilling. If there is Waving or Frilling in the lower edge, the white black pattern which is reflected on the tape will curve or not linear as shown in Figure M12.

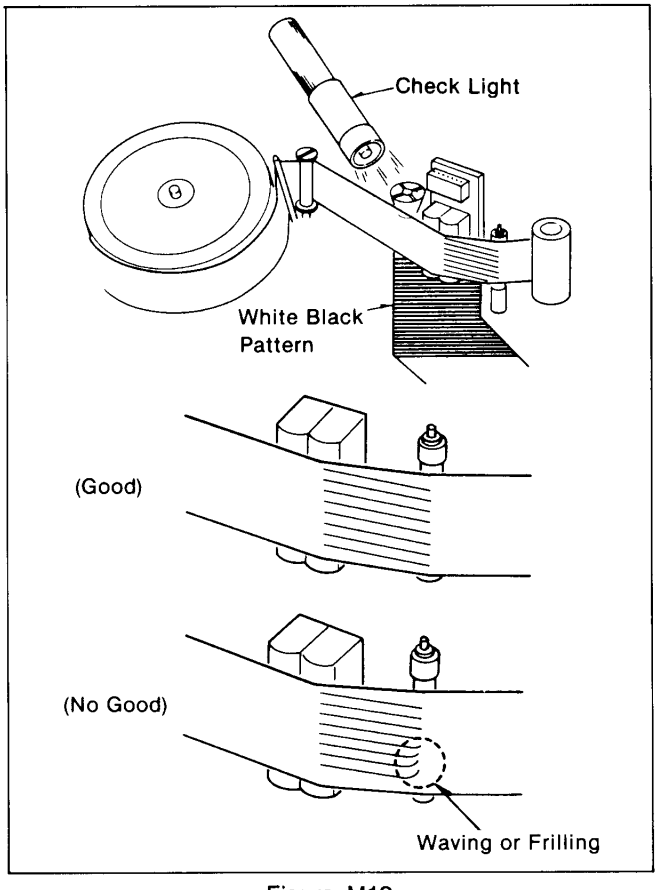


Figure M12

8. If curling appears, readjust P5 post.

4-2-4. COARSE ADJUSTMENT OF THE A/C HEAD HEIGHT

<<NOTE>>

This procedure should be performed only when the A/C Head is replaced.

<<TOOL>>

Check Light ; VFK0343
Nut Driver ; Purchase locally

1. With the tape running, look at the lower edge of the control head by using the check light.
2. Adjust the Nut (A) as shown in Figure M13 by turning the Nut (A) clockwise to lower the head, and counter-clockwise to raise it.

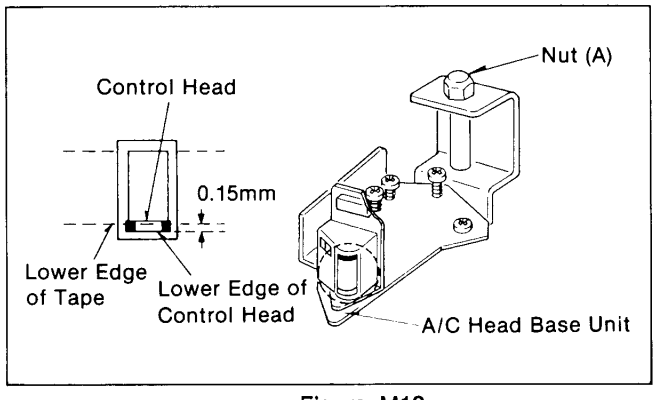


Figure M13

4-2-5. TILT & AZIMUTH ADJUSTMENT OF THE A/C HEAD

<<NOTE>>
This procedure should be performed only when the A/C Head is replaced or posts heights are readjusted.

<<TOOL>>
Alignment Tape ; VFM8180HADH
Check Light ; VFK0343
Screwdriver(+) ; Purchase locally
VHS Video Tape

1. Play back a VHS Video tape which the amount of tape winding of a Supply Reel is more than the amount of tape winding of a Take up Reel. Turn a screw (B) to clockwise until Waving or Frilling appears in the lower edge of P4 post as Figure M11.

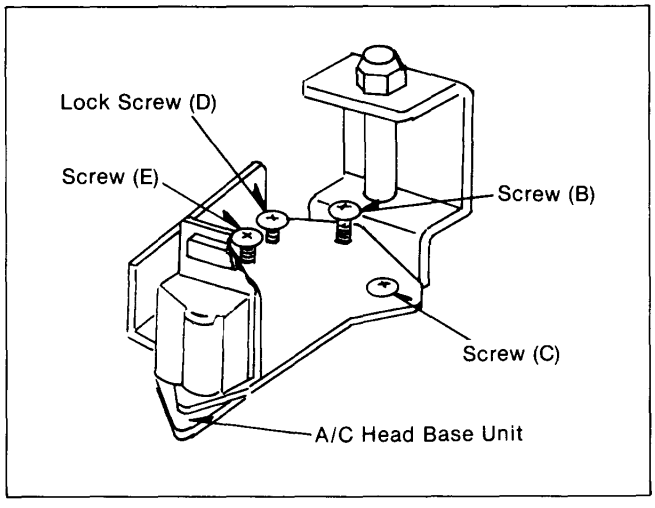


Figure M14

<<NOTE>>
There is easy method to check Waving or Frilling. If there is Waving or Frilling in the lower edge, White Black pattern which is reflected on the tape will curve or not linear. (Figure M12)

2. Turn the screw (B) to counter-clockwise until waving or frilling do not appear in the lower edge of P4 post.
3. Connect the scope CH1 to the Normal Audio Output CH1 and the scope CH2 to the Normal Audio Output CH2 on the rear panel.
4. Play back the 2-nd portion (Normal Audio 10KHz) of the alignment tape (VFM8080HQFP).
5. Adjust the screw (C) so that these phases of both channels match as shown in Figure M15.

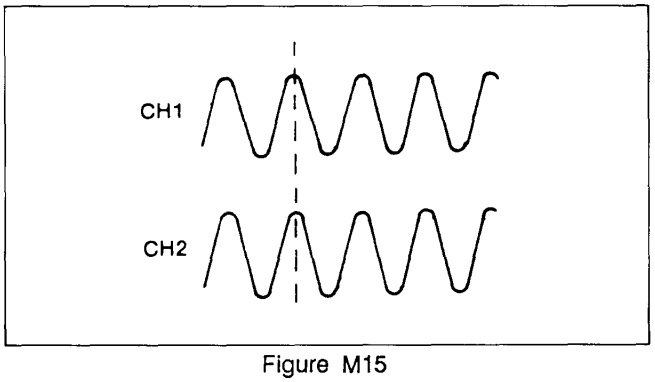


Figure M15

6. Adjust the screw (C) and (B) so that CH1 and CH2 output levels become maximum, these phases of both channels much at the same time (Figure M16). During this adjustment the Lock screw (D) does not touch the A/C Head Base as shown in Figure M17.

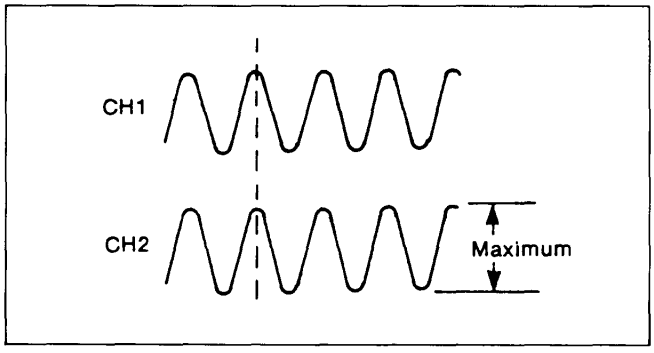


Figure M16

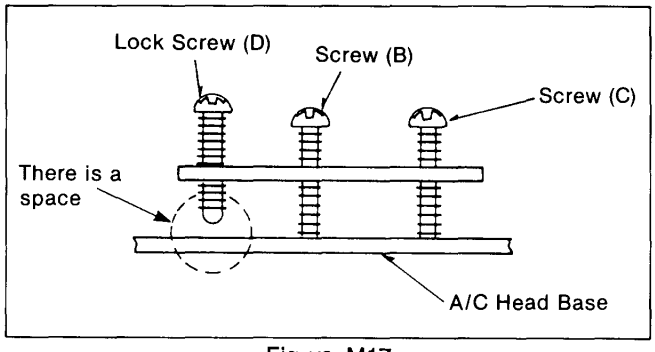


Figure M17

7. Turn the screw (C) to clockwise so that the difference of phases of both channels become 180 degrees as shown in Figure M18.

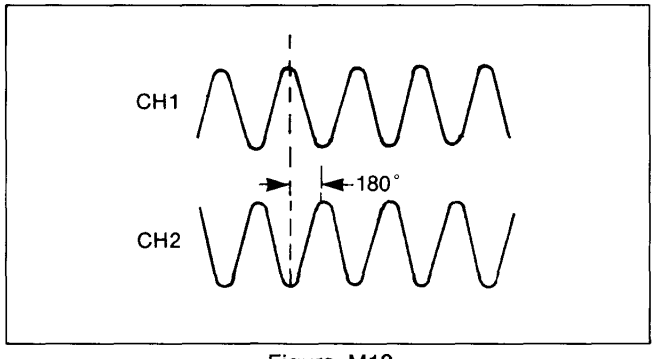


Figure M18

9. Tighten the Lock screw (D) so that these phases of both channels match as shown in Figure M15.

4-2-6. FINE ADJUSTMENT OF THE TAPE GUIDE POST HEIGHT (P2 and P3) (LINEARITY)

<<TOOL>>
Alignment Tape ; VFM8180HADH
Post Adjustment Screwdriver ; VFK0329

<<NOTE>>
Before playing back the alignment tape playback a normal cassette tape and confirm correct transport.

1. Connect the scope to TP3005 (RF) on the video (1) board and TP2201 on the servo TP board to Ext-trigger the scope.
2. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH)
3. Turn the Tracking Control VR and adjust for maximum VIDEO FM envelope.
4. If the RF envelope appears like example A or B in Figure M20 then adjustment of the tape guide post (P2 : Entrance) is necessary.
5. Adjust the tape guide post (P2) with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Figure M20-C.

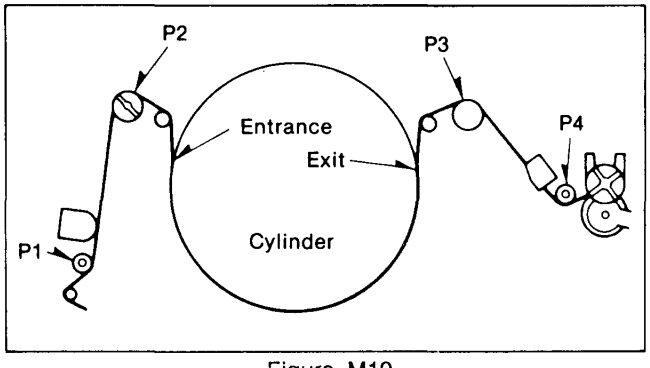


Figure M19

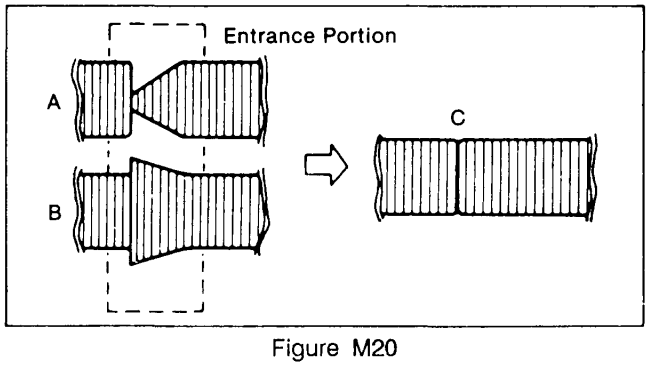


Figure M20

6. If the RF envelope appears like example D or E in Figure M21, then adjustment of the tape guide post (P3 : Exit) is necessary.
7. Adjust the tape guide post (P3) in the same manner as the P2 post so that the exit portion becomes flat as shown in Figure M21-F.

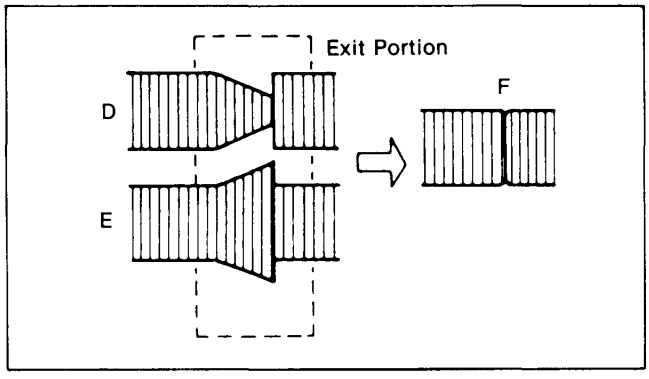


Figure M21

8. Turn the Tracking VR fully clockwise and counterclockwise. The output envelope should vary nearly parallel with other condition as shown in Figure M22.

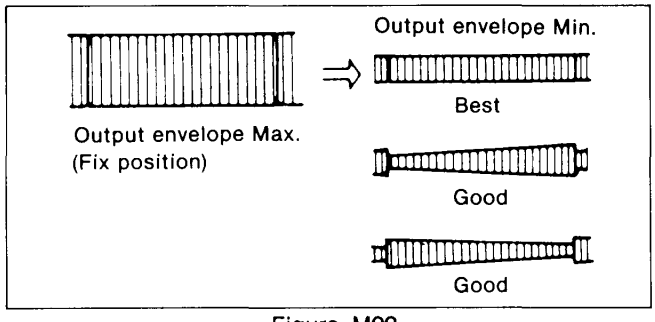


Figure M22

9. Turn the Tracking VR into center fix position and adjust for maximum RF envelope.
   If the RF envelope does not meet these specifications,

   V1/VO >= 0.7
   V2/VO >= 0.8
   V3/VO >= 0.7

   then repeat steps 4-9 again.

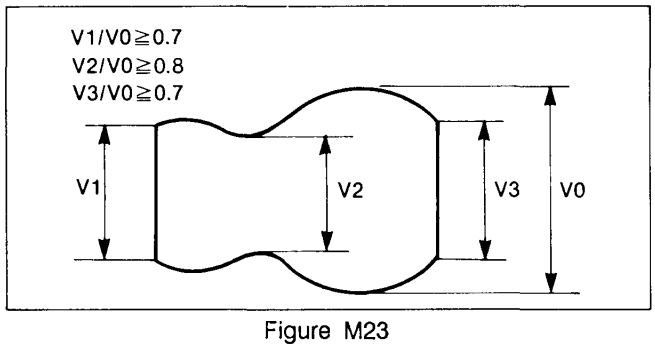


Figure M23

4-2-7. FINE ADJUSTMENT OF THE A/C HEAD HEIGHT

<<NOTE>>
Before this adjustment 5-2-3. Coarse Adjustment of the A/C Head Height should be performed.

<<TOOL>>
Alignment Tape ; VFM8180HADH
Nut Driver ; Purchase locally

1. Connect a scope to the Normal Audio CH2 Output on the rear panel.
2. Play back the 2-nd portion (Normal Audio 10kHz) of the Alignment Tape (VFM8180HADH)
3. Adjust the Nut (A)(Figure M24) so that the CH2 output level becomes maximum as shown in Figure M25.

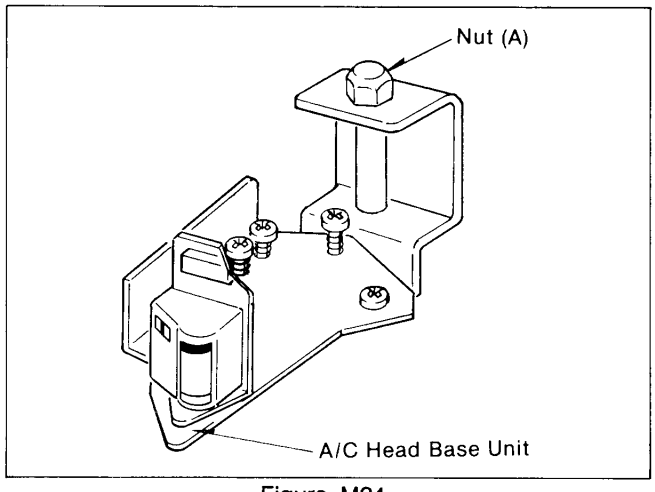


Figure M24

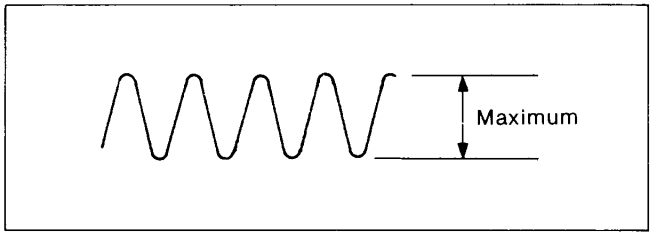


Figure M25

4-2-8. COARSE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

<<NOTE>>
This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

<<TOOL>>
H-Position Adjustment Screwdriver ; VFK0328
Alignment Tape ; VFM8180HADH

1. Set the Tracking Control VR to the center detent(fixed) position.
2. Connect a scope CH1 to TP3005 (RF) on the video (1) board, CH2 to the audio CH1 output on the rear panel.
3. Play back the 4-th position (Monoscope 3 and Audio / Every 10-th field is skipped) of the Alignment tape VFM8080HQFP.
4. Adjust the A/C head horizontal position screw so that the phase of audio drop out and video RF envelope drop-out becomes the same as shown in Figure M26.

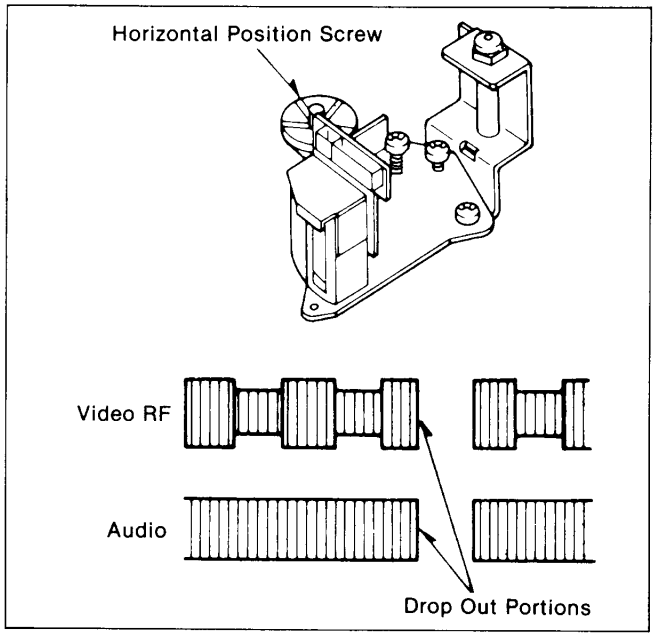


Figure 3-26 Horizontal Position Adjustment of A/C Head

<<NOTE>>
After completion the fine adjustment of the A/C head horizontal position, the phase of Audio drop-out and Video RF envelope drop-out may be changed slightly.

4-2-9. FINE ADJUSTMENT OF THE A/C HEAD HORIZONTAL POSITION (X-VALUE)

<<NOTE>>
This procedure should be performed only when the A/C head is replaced, and after performing the tape interchangeability adjustment.

<<TOOL>>
H-Position Adjustment Screwdriver ; VFK0328
Alignment Tape ; VFM8180HADH

1. Set the Tracking Control VR to the center fix position.
2. Connect a oscilloscope to Video RF test Terminal on the Front Panel.
3. Play back the 2-nd portion (Monoscope 2) of the alignment tape (VFM8180HADH)
4. Adjust the Horizontal Position Screw (Figure M25) of A/C head so that the RF signal becomes maximum level as shown in Figure M27.

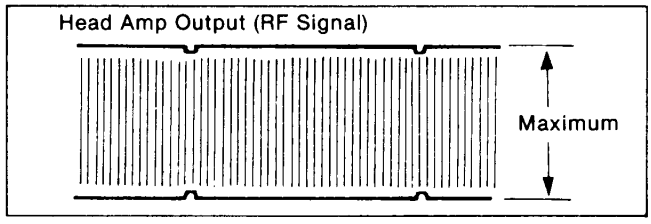


Figure M27

4-3. OTHER MECHANICAL ADUSTMENT PROCEDURES

4-3-1. MEASUREMENT AND ADJUSTMENT OF BACK TENSION

<<TOOL>>
Back Tension Meter ; VFK0132
VHS Cassette Tape (180 min. tape not S-VHS tape)

A. FWD Tension Adjustment

<<SPEC>>
23g to 27g

1. Play back the cassette tape from the beginning and wait until the tape movement get the stabilization. (for approx. 10 to 20 seconds)
2. Pull the Impedance Roller in the direction indicated the arrow in Figure M28 secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.

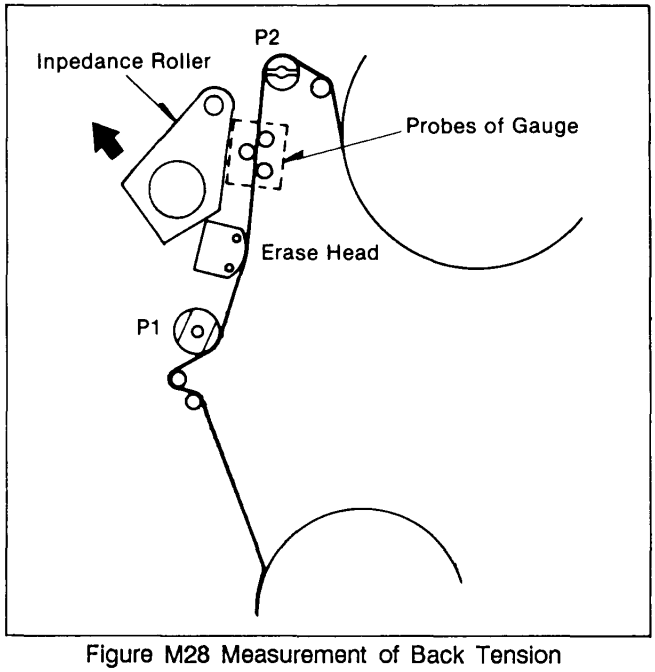


Figure M28 Measurement of Back Tension

4. If it is out of specification, replace the Tension spring.

B. Rev Tension Adjustment

<<SPEC>>
30g to 60g

1. Play back the beginning of E180 VHS cassette in the Reverse play mode and wait for approx. 10 to 20 seconds so that the tape movement is stabilized.
2. Pull the Impedance Roller in the direction indicated by the arrow in Figure M28 secure it with a piece of adhesive tape.
3. Insert the Back Tension Meter into the path of a tape, and measure the back tension.
4. If it is out of specification, replace the Tension spring.

<<NOTE>>
While measuring, make sure that the three probes of the meter are all in good contact with the tape.
As the tension meter is very sensitive, we recommend taking 3 separate readings.

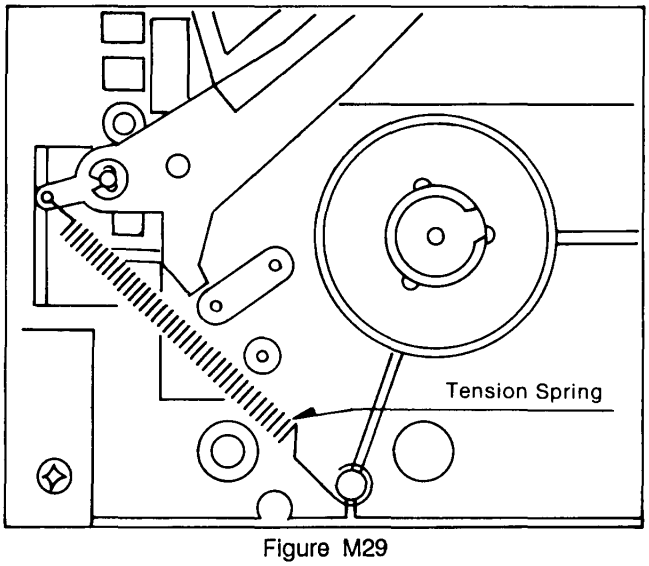


Figure M29

4-3-2. HEIGHT ADJUSTMENT OF THE REEL TABLES

<<TOOL>>
Post Adjustment Plate ; VFK0191
Reel Table Height Gauge ; VFK0190

<<SPEC>>
0 - 0.15mm

1. Remove the cassette compartment.
2. Place the Post Adjustment Plate on the reel tables.
3. Place the Reel Table Height Gauge on the plate so that the scraper of the gauge touches the cut-out portion of the plate, then set the gauge to zero 0 as shown in Figure M30.

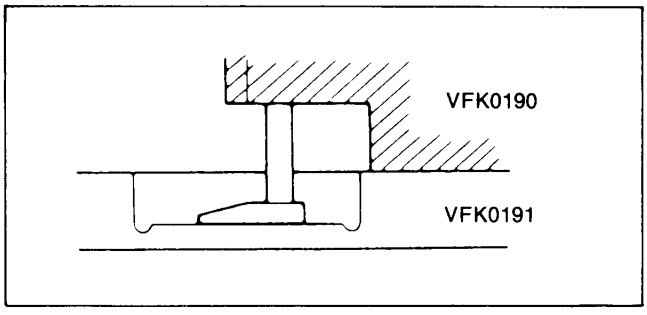


Figure M30

4. Measure the height of the top surface of either Reel Table and note the difference in height from the plate cut-out. (Figure M30 and M31) Repeat this procedures for the other Reel Table.

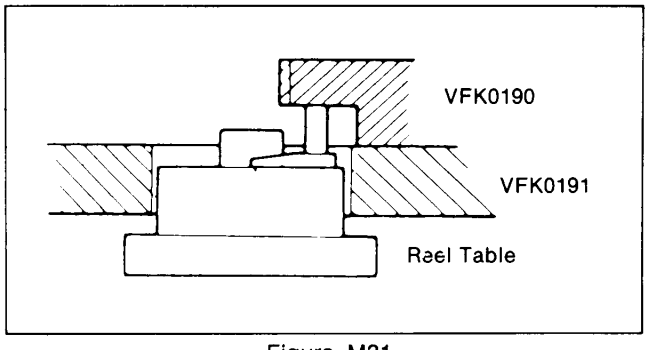


Figure M31

5. If the difference of Supply Reel table is more than 0.15mm higher or lower, replace the Supply Reel table. When the difference of Take Up Reel table is more than 0.15mm higher or lower, adjust nut (A)(Figure M32) so that measurement becomes the spec. If you can not adjust to the spec., replace Take Up Reel table.

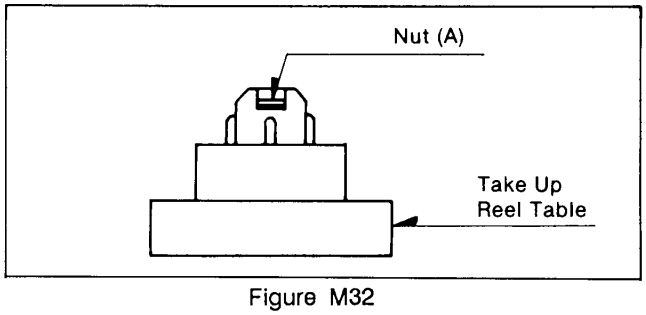


Figure M32

<<NOTE>>
When replacing the tables, the DD Reel Unit needs to be removed from the chassis.
Remove 6 screws and carefully lift it out as shown in Figure M33.

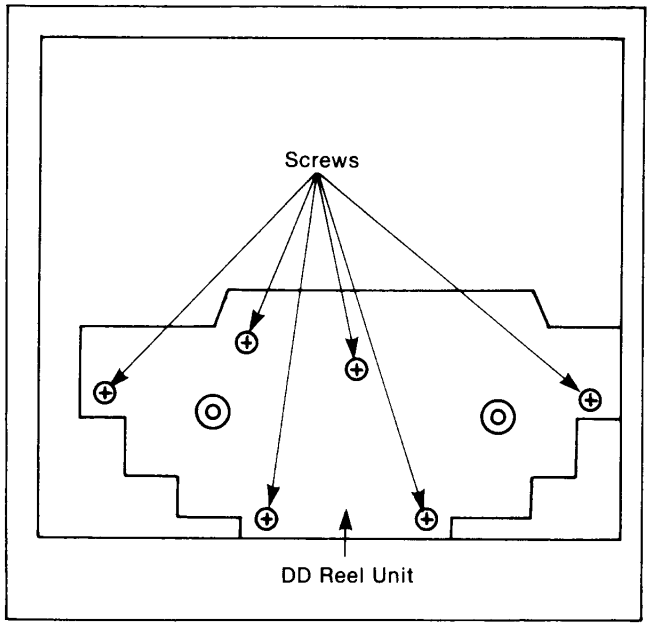


Figure M33 Bottom View of DD Reel Unit

<<NOTE>>
When assembling the DD Reel Unit, slide a Main Rod to far left side by rotating the Center Gear, and then screw the 6 screws.

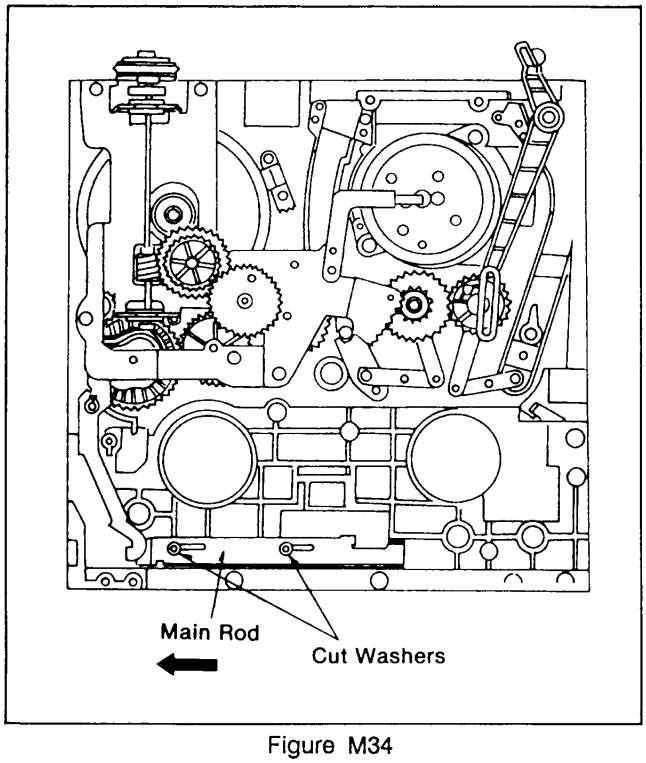


Figure M34

4-3-3. ADJUSTMENT OF THE CAPSTAN THRUST GAP

<<TOOL>>
Reel Table Height Gauge ; VFK0190
Height Adjustment Fixture ; VFK0344

<<SPEC>>
0.5mm +/- 0.05mm

1. Turn a Thrust Adjust Screw slightly until the capstan rotor unit just touches the coil of the capstan stator unit.

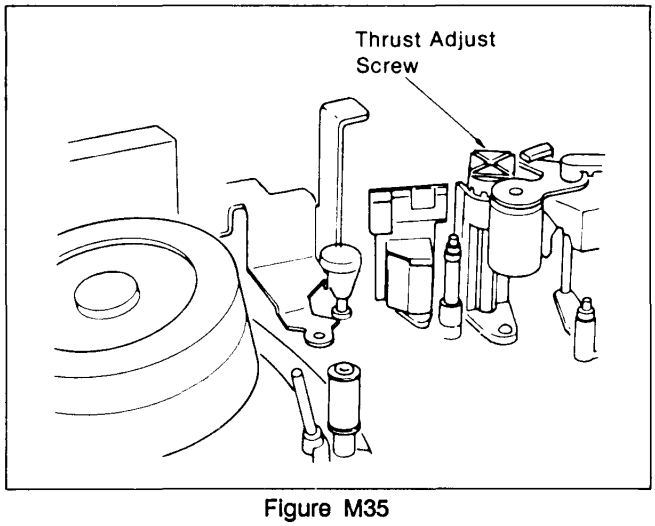


Figure M35

2. Unscrew 4 screws and remove the Gear Base Unit.
3. Set the Height Adjustment Fixture on the capstan Rotor unit as shown Figure M36.

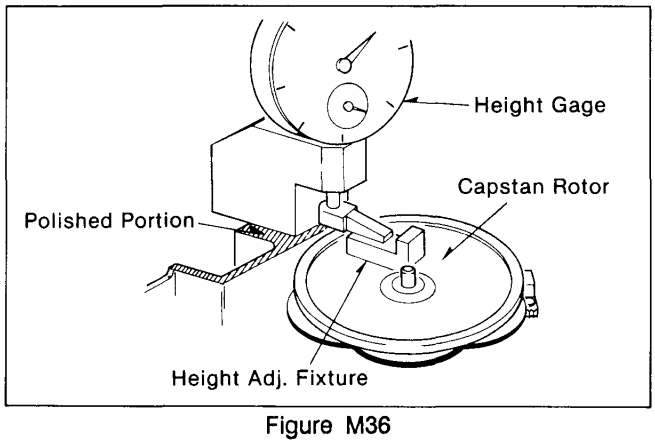


Figure M36

4. Adjust the Thrust Adjust screw so that the thrust gap becomes 0.5mm +/- 0.05mm.

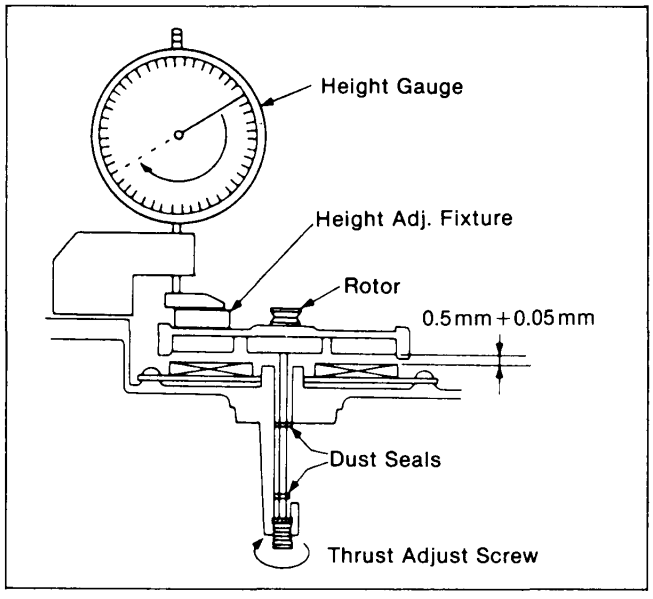


Figure M37

4-3-4. MEASUREMENT AND ADJUSTMENT OF THE BRAKE TORQUE

<<TOOL>>
Torque Gauge ; VFK0133
Adapter for Gauge ; VFK0134

1. Remove the top cover and the cassette compartment.
2. Attach the adapter to the torque gauge and place the deck in STOP mode (Subloading mode).
3. Place the torque gauge on the reel table as shown in Figure M38. The weight of the gauge should not rest on the reel table.
4. Turn the torque gauge in the direction indicated in Figure M39 until the brake begins slipping and read the gauge.

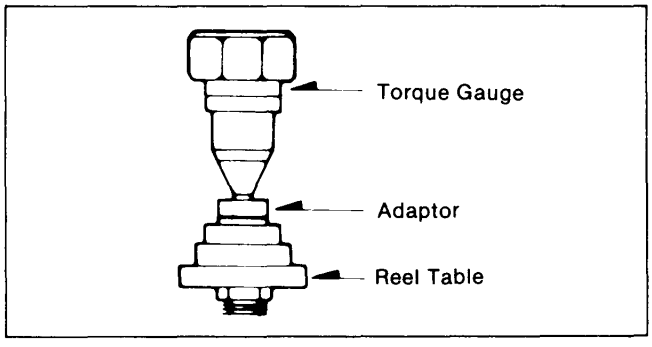
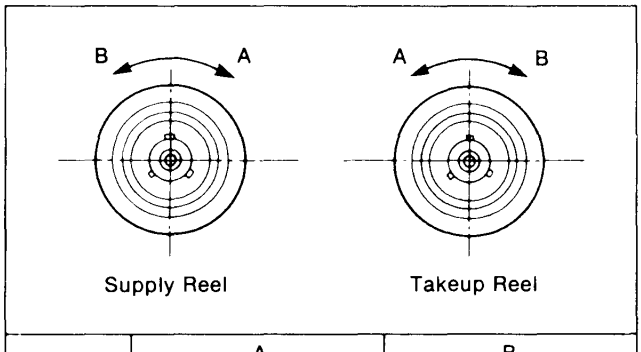


Figure M38 Measuring Method



	A	B
Takeup	more than 550g-cm	more than 50g-om
Supply		more than 40g-cm

Figure M39 Specification of Brake Torque

5. If it is out of specification, replace the Brake Spring.

<<NOTE>>
If the proper brake torque cannot be obtained by replacing the Brake Spring, clean the braking surface of the reel table with a soft cloth and re-measure the brake torque. If its still out of specification, replace the Main Brake (S) or (T) Unit.

4-3-5. ADJUSTMENT OF PRESSING FORCE OF PRESSURE ROLLER UNIT

<<TOOL>>
Fan Taype Tension Gauge ; VFK66
Fine Adj. Screwdriver ; VFK0330
VHS 180 min. Cassette Tape

<<SPEC>>
930g +/- 70g

1. Remove the Cassette Compartment.
2. Play back the end portion of VHS (180 min.) tape.
3. Insert a Fine Adj. Screwdriver in the hole (C).
4. Slightly losen the screw (B).
5. Set the Fan Type Tension Gauge to the part (A) of Pinch Roller Unit.
6. Press the Arm with the Gauge, in the direction indicated by the arrow as show in Figure M40.
7. Adjust the Solenoid Base so that the reading of the Tension Gauge is 930g +/- 70g at the moment of the tape running stop.

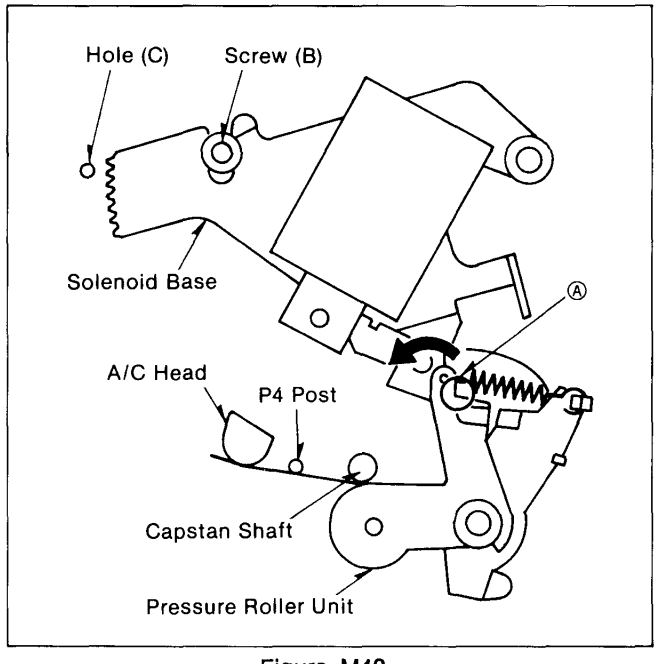


Figure M40

4-3-6. ADJUSTMENT OF THE REV. TENSION SENSOR POSITION

<<TOOL>>
Tension Sensor Adj. Fixture ; VFK0578
Tension Post Adj. Plate ; VFK0236
Fine Adj. Screwdriver ; VFK0330
Digital Volt Meter ; Purchase locally

<<NOTE>>
Assemble a Tension Sensor Adjustment Fixture (VFK0578) and a Tension Post Adj Plate (VFK0236) as shown in Figure M41.

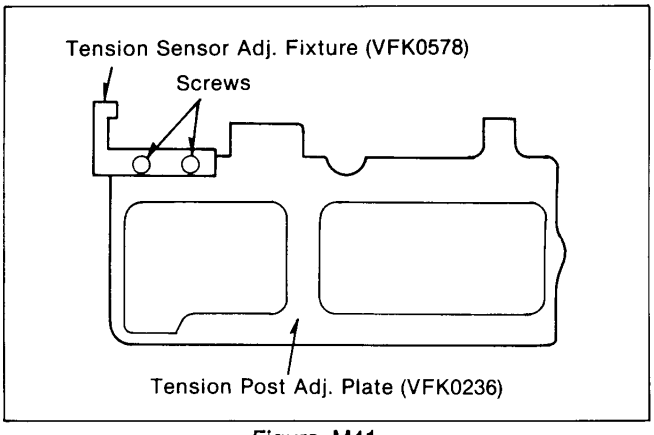


Figure M41

1. Remove the Top Plate and Cassette Holder Unit. (refer to Disassemble Procedures)

<<NOTE>>
Do not disconnect 4Pin (exept 2P) flat wire from connector P1508 on the right side of Cassette Compartment.

2. Push the Sub Wiper Arm (R) to direction of Cassette loading.
   Then the Sub Wiper Arm (R) goes down itsedlf and mode of machine change to STOP.
3. Turn the Power switch off.
4. Remove the Cassette Compartment (refer to Disassmbly Procedures) and disconnect 4Pin flat wire form P1508.
5. Connect the V.T.V.M. or D.V.M. to TP2502 on the Reel Servo C.B.A.
7. Place the Tension Post Position Adjustment Plate with the Fixture over the reel tables as shown in Figure M42.

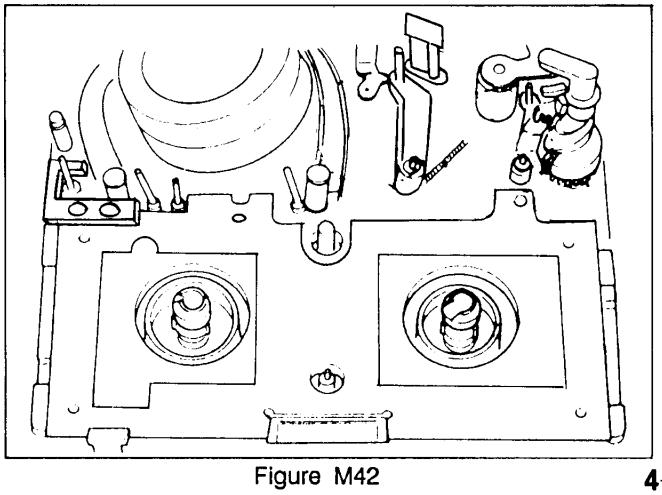


Figure M42

8. Turn the Power switch on.
9. Slightly loosen 2 screws (C). Insert a Fine Adj. Screwdriver in the hold (D). (Figure M43)

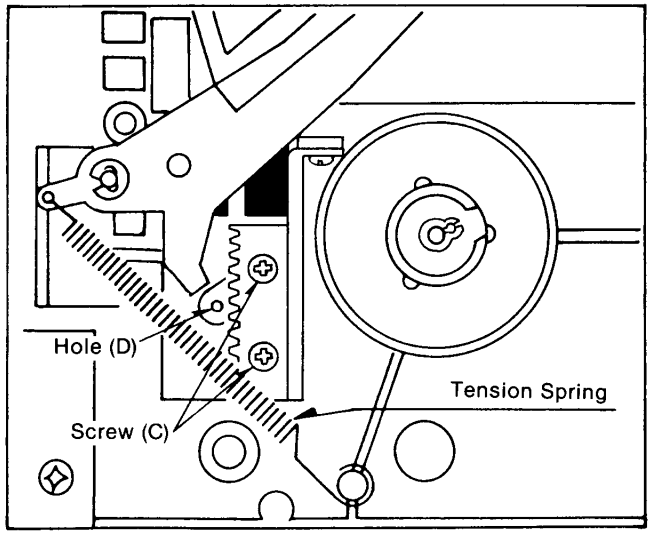


Figure M43

10. Adjust the Rev Sensor Position so that measurement becomes D.C. 2.0V to 2.5V.
11. Remove the Tension Sensor Fixture.
12. Reinstall the Cassette Compartment.
13. Confirm Playback picture (Rev Playback mode, Playback mode etc.)

4-3-7. ADJUSTMENT OF THE FG HEAD GAP

<<SPEC>>
0.17mm to 0.18mm

1. Slightly loosen 2 screws. (Figure M44)
2. Put the paper which is used for cover page of this volume into the gap between F.G. Head and Capstan rotor. (The thickness of the cover page is approx. 0.17mm).
3. After adjustment, tighten 2 screws.

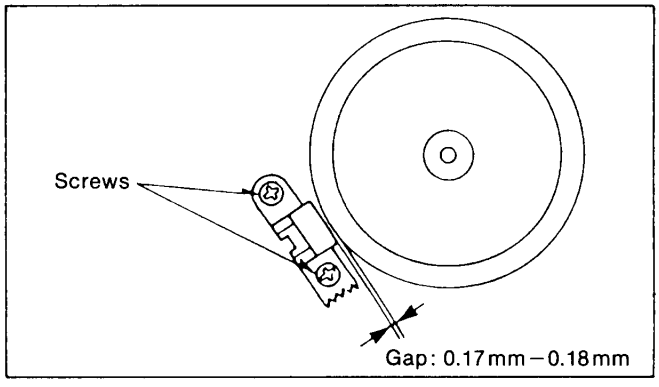


Figure M44

<<NOTE>>
Do not touch the surface of rotor and keep any magnetizable material away.

4-4. ASSEMBLY AND ADJUSTMENT PROCEDURES OF MECHANISM

The mechanism of this model is mostly engaged to the System Control Circuit, through the mode select switch.
Therefore the relation between the mode select switch and the cam gear decides all further mechanical movement of the mechanical parts such as levers, gears, rollers and so on.
If these parts are not fixed properly, the unit will be unloaded or compulsorily stopped.
And it will result being damaged at any mechanical or electrical parts.
The overall mechanical condition (alignment) of bottom and top view are shown in Figure M45 and Figure M46. This mechanical adjustment is performed in the STOP mode.

4-4-1. CONFIRMATION OF ALIGNMENT CONDITION

1. Remove the Loading Belt.
2. Unscrew 4 screws and remove the Gear Base Unit.(Figure M45)
3. Turn the Center Gear to counter-clockwise until 2 big holes of Center Gear align with 2 big holes of Retainer Gear and Ring Gear and Chassis as shown in Figure M47.
4. Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam as shown in Figure M46.
5. P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.
6. Small hole on Sub Cam Gear should align with small hole on the Connection Gear and rectangular mark on the Connection Gear should be at a 3 oclock position.
7. Pressure Roller Unit is UP position.

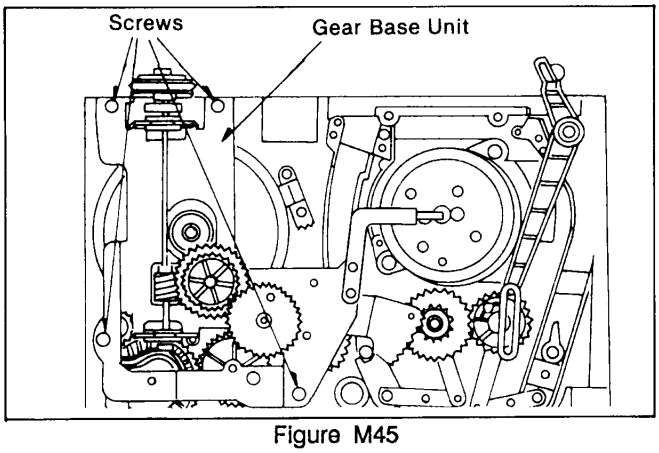


Figure M45

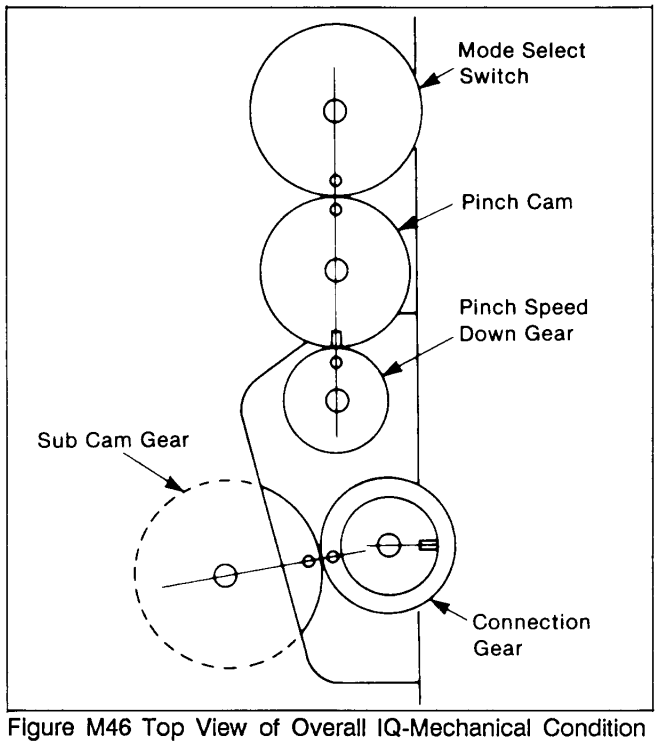


Figure M46 Top View of Overall IQ-Mechanical Condition

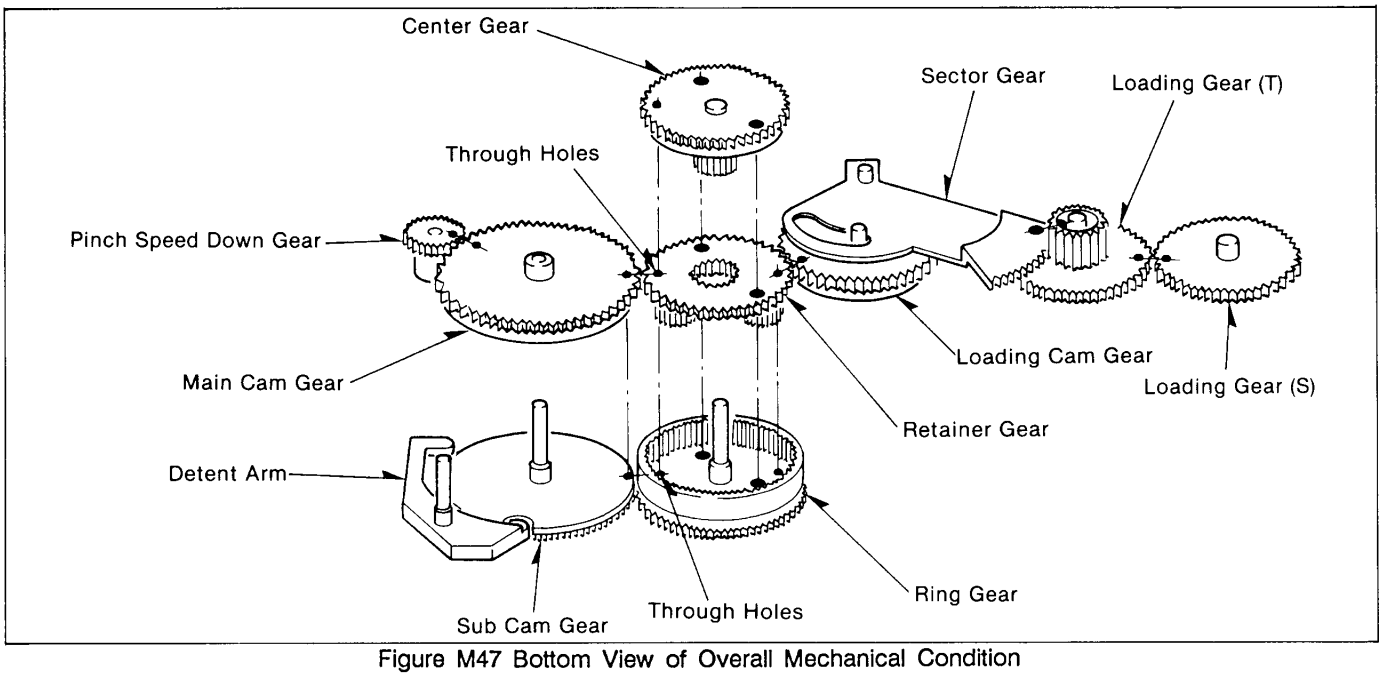


Figure M47 Bottom View of Overall Mechanical Condition

4-4-2. ASSEMBLY PROCEDURES OF SUB CAM GEAR,RING GEAR AND DETENT ARM

1. Install the Ring Gear so that the two holes on the Ring Gear align with the two holes on the chassis as shown in Figure M48.
2. Install the Sub Cam Gear so that the large hole on Sub Cam Gear aligns with the hole on chassis. Also the small hole (located just outside of large hole) on Sub Cam Gear should align with the hole on Ring Gear as shown in Figure M48.
3. Confirm that the small hole on Sub Cam Gear is aligned with the small hole on Connection Gear as shown in Figure M46 (In case of the Connection Gear is already installed).
4. Install the Detent Arm and make sure Detent Arm seats perfectly in detent of Sub Cam Gear as shown in Figure M48.

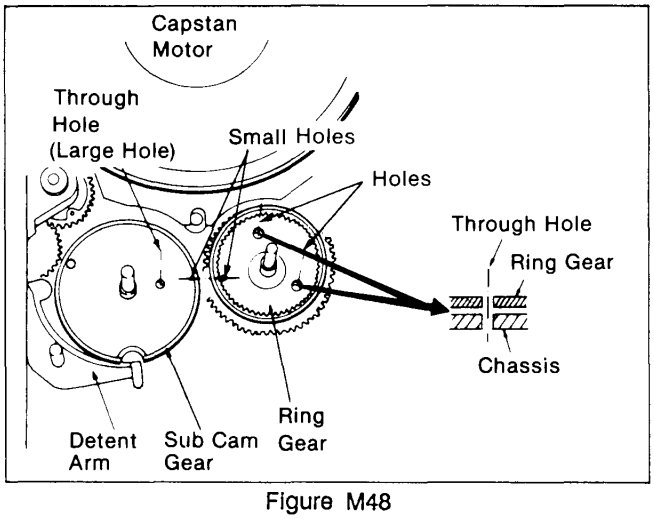


Figure M48

4-4-3. ASSEMBLY PROCEDURES OF MAIN CAM GEAR AND PINCH 1 SPEED DOWN GEAR

1. Install the Main Cam Gear onto the Sub Cam Gear so that the small hole on the Main Cam Gear aligns with small hole on the Ring Gear as shown in Figure M49.
2. Insert a retaining ring.
3. Install the Pinch Speed Down Gear from top side of chassis so that the small hole on the Main Cam Gear aligns with small hole on the Pinch Speed Down Gear as shown in Figure M49.

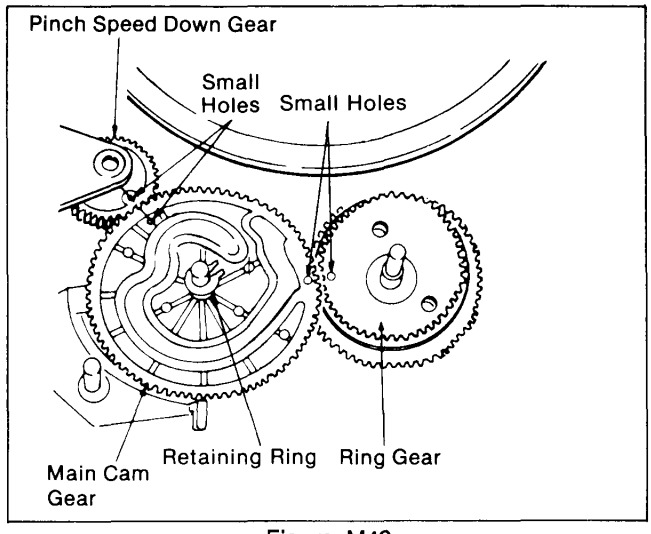


Figure M49

4-4-4. ASSEMBLY PROCEDURES OF LOADING CAM GEAR AND RETAINER GEAR

1. Install the Retainer Gear onto the Ring Gear so that the two holes on the Retainer Gear align with the two holes on the Ring Gear, at this time, small hole on the Main Cam Gear should aligns with small hole on the Retainer Gear as shown in Figure M50.
2. Install the Loading Cam Gear so that the small hole which is directly outside of the large hole on the Loading Cam Gear is aligned with the outside hole of the Retainer Gear as shown in Figure M50.

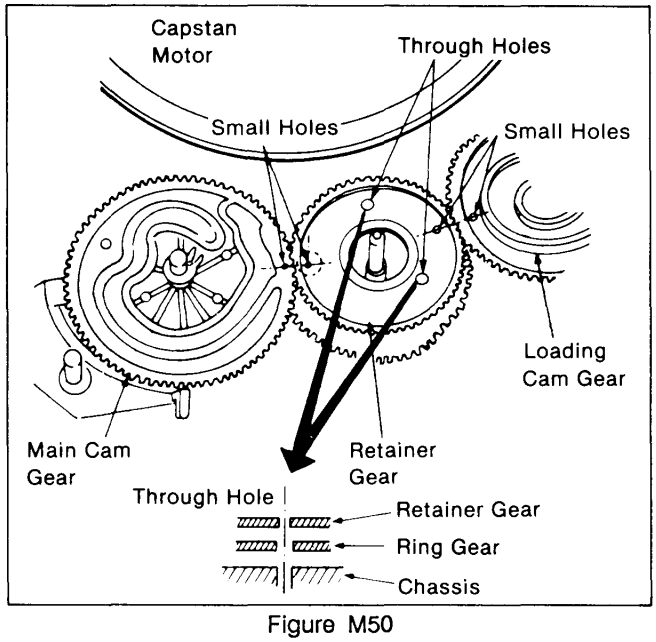


Figure M50

4-4-5. ASSEMBLY PROCEDURES OF CENTER GEAR

1. Softly Install the Center Gear onto the Retainer Gear so that the two holes in the Center Gear align with the holes on the Retainer Gear, then install the cut washer as shown in Figure M51.

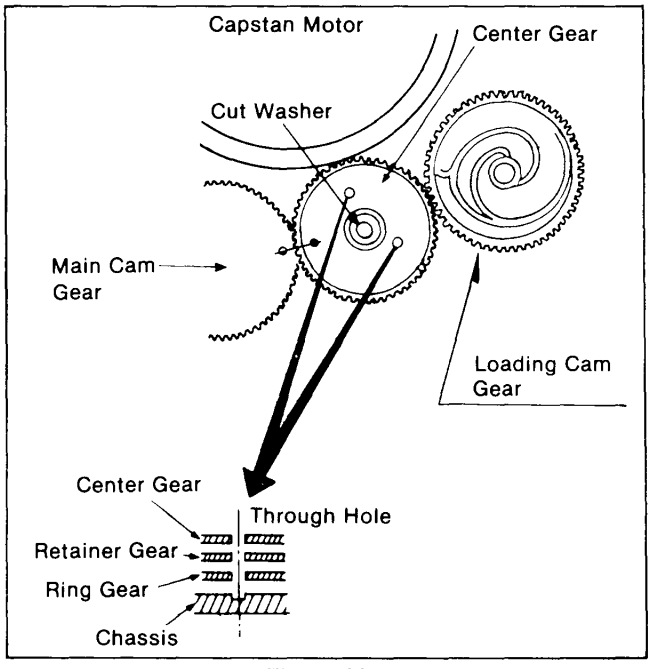


Figure M51

4-4-6. ASSEMBLY PROCEDURES OF MAIN LEVER AND CAM FOLLOWER ARM UNIT

1. Install the Main Rod and then insert the cut washers as shown in Figure M52.
2. Install the Cam Follower Arm so that the pin of the Cam Follower Arm inserts into the groove of the Main Cam Gear and also inserts into the slot on the Main Rod, insert the retaining ring.

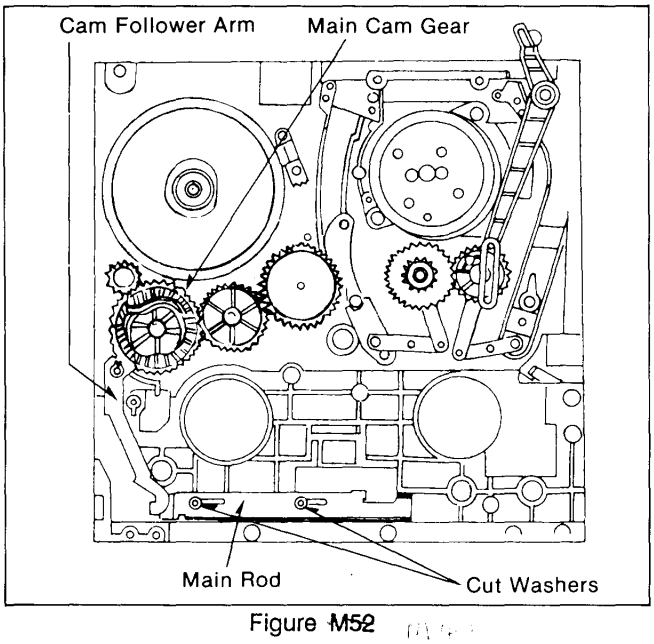


Figure M52

4-4-7. ASSEMBLY PROCEDURES OF LOADING GEAR (T) ,LOADING GEAR (S) AND SECTOR GEAR

1. Set the P2 and P3 posts to fully unloaded position, then install the Loading Gear (T) and (S) so that the outer hole on the Loading Gear (T) aligns with the outer hole on the Loading Gear (S) as shown in Figure M53.
2. Install the Sector Gear so that the outer hole in the Sector Gear aligns with the projection mark on Loading Gear (T).
3. Insert 3 retaining rings as shown in Figure M54.

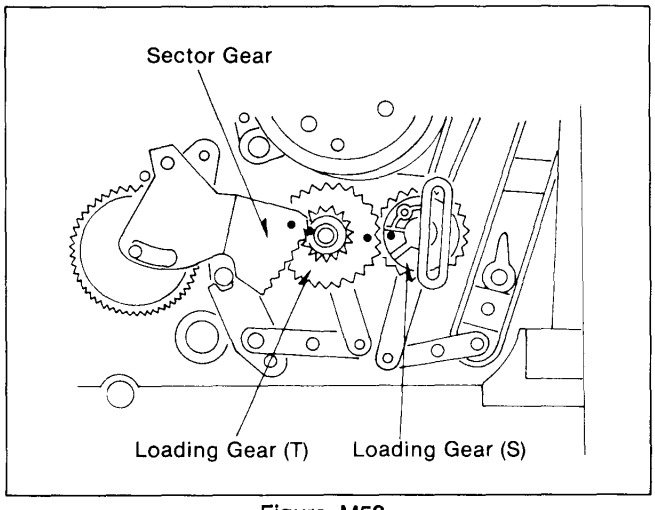


Figure M53

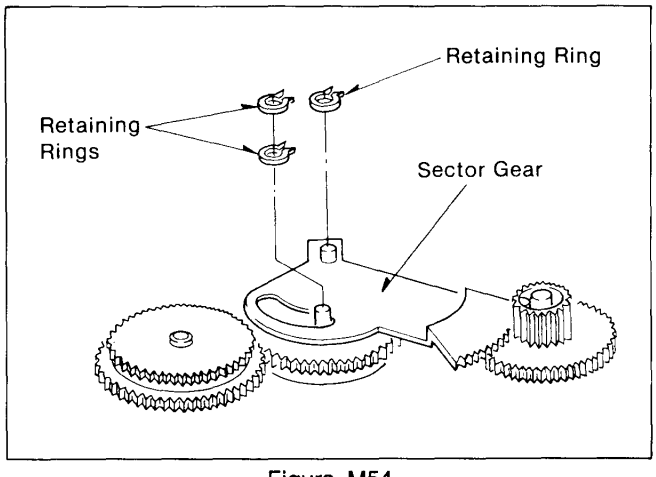


Figure M54

4-4-8. ASSEMBLY PROCEDURES OF CONNECTION GEAR

<<NOTE>>

Before assembling, Sub Cam Gear position (and positions of bottom side gears) must be correct as described before (Figure M46).

1. Install the Connection Gear so that the small hole on the Connection Gear aligns with the small hole on the Sub Cam Gear as shown in Figure M55.

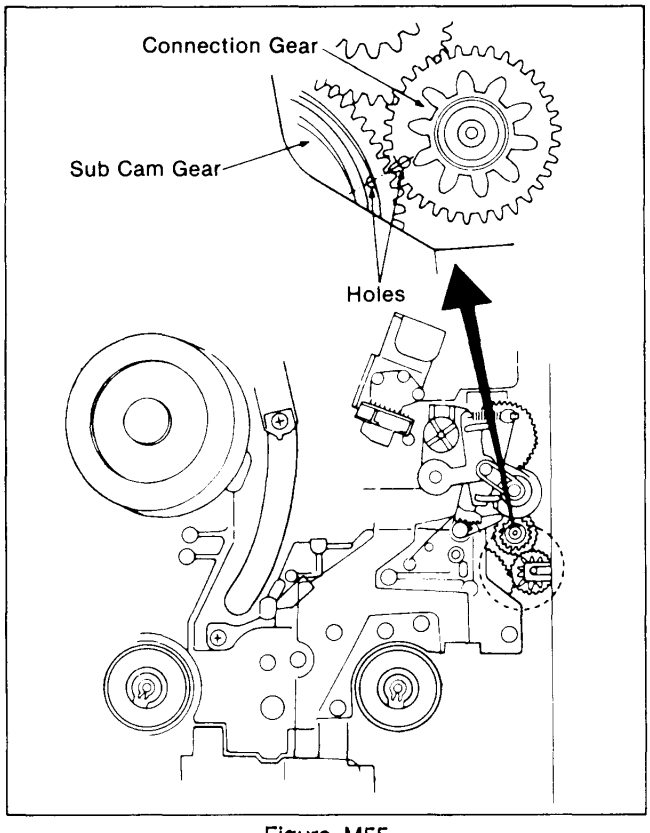


Figure M55

4-4-9. ASSEMBLY PROCEDURES OF MODE SWITCH AND P5 PULL OUT SECTOR GEAR

1. Turn the Center Gear to unloading position.
2. Install the Mode Select Switch and tighten the mounting screw, then solder the 5 soldering portions.
3. Install the P5 Pull Out Sector Gear so that the hole of P5 Pull Out Sector Gear aligns with the tip of gear at P5 Arm as shown in Figure M56.

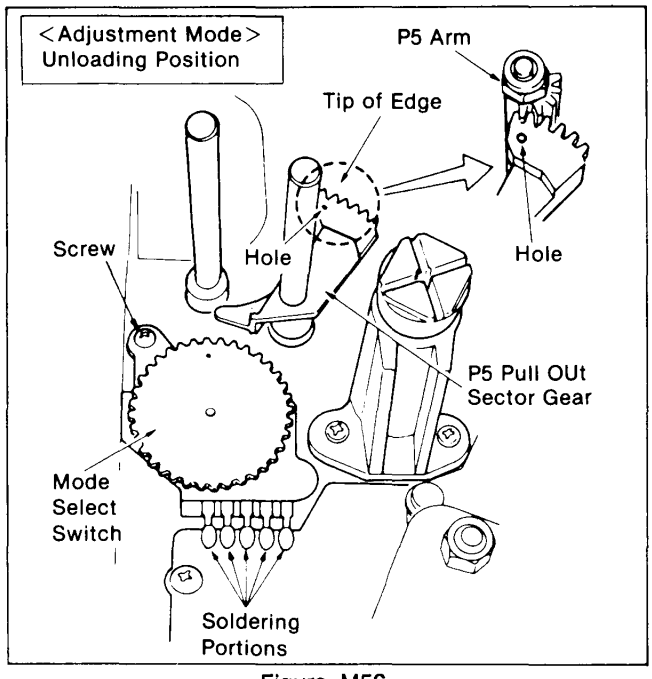


Figure M56

4-4-10. ASSEMBLY PROCEDURES OF PINCH CAM AND PRESSURE ROLLER UNIT

1. Install the Pinch Cam while pushing the P5 post forward. The gear of the Pinch Cam should drop to a seated position. In this position make sure hole in the Mode Select Switch aligns with small hole on the Pinch Cam, also the small rift on the Pinch Cam should align with the hole on the Pinch Speed Down Gear as shown in Figure M57.
2. Install the Pressure Roller Unit. Make sure the seats perfectly onto the Pinch Cam, then install the Pinch Cam Cap.

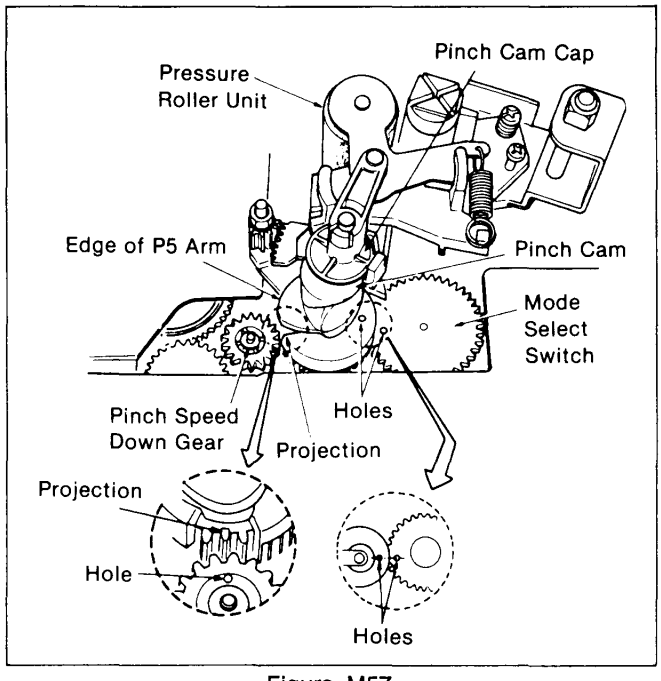


Figure M57

4-4-11. ASSEMBLY PROCEDURES OF GEAR BASE UNIT

1. Install the Gear Base Unit and screw 4 screws as shown in Figure M58.

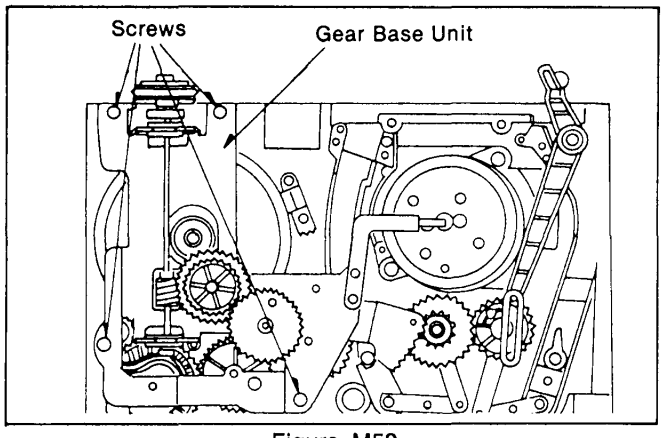


Figure M58

<<NOTE>>

The Gear Base Unit has 2 gears and wormshaft. There is no adjustment for these gears.

4-4-12. REINSTALLATION OF CASSETT COMPARTMENT

When you reinstall the cassette compartment, the position adjustment of mechanism is necessary for correct operation, as follows.

A. Confirmation of STOP Alignment Condition

1. Turn the Wormshaft counter-clockwise or clockwise until mechanism is placed into the Alignment Condition as following conditions.

   a) Identification hole on the Mode Select Switch at 6 oclock position and aligned with small hole on Pinch Cam. (Figure M57)
   b) P5 Arm is completely loading position and the Inclined Base (S) and (T) are completely unloading position.
   c) Small hole on Sub Cam Gear should align with small hole on the Connection Gear (Figure M55) and rectangular mark on the Connection Gear should be at a 3 oclock position.
   d) Pressure Roller Unit is UP position.

B. Confirmation of Cassette Compartment

1. Confirm that the Cassette Compartment is aligned properly. In the EJECT position (Cassette Holder up and advanced to the front) the two V-shaped marks on the slide switch should align. The slide switch is located on the right side of the Cassette Assembly towards the rear as shown in Figure M59.

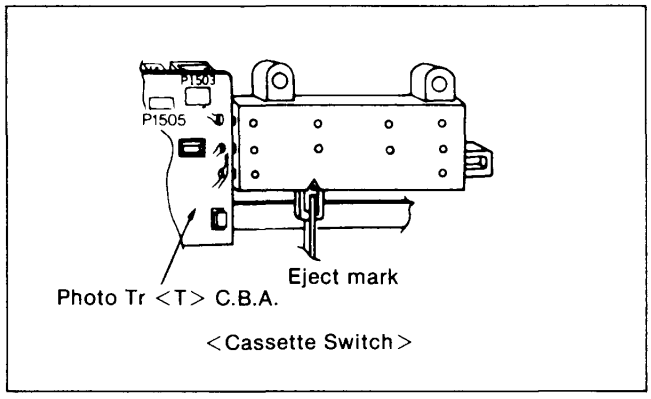


Figure M59

2. Remove 3 screws (A) as shownin Figure M60.
3. Take the top plate out.
4. Take the cassette Holder unit out as shown in Figure M61.

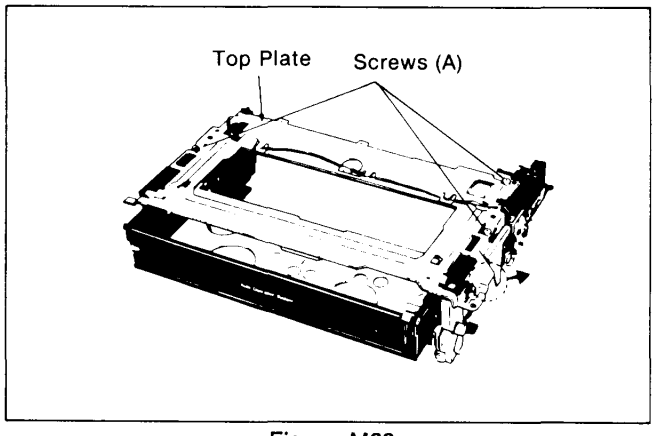


Figure M60

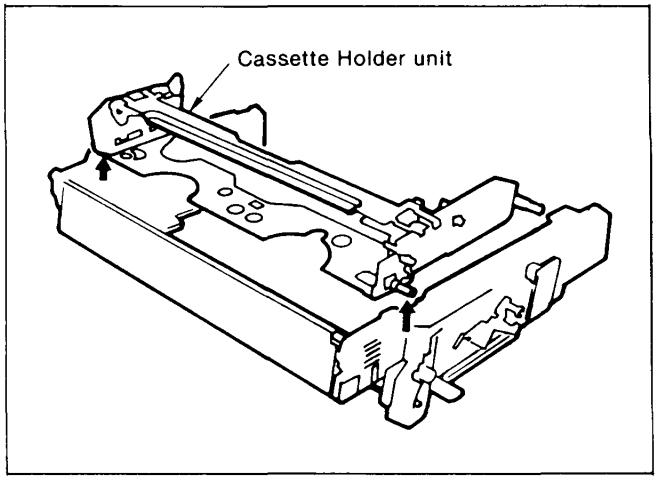


Figure M61 Removal of cassette holder unit

5. Press the sub wiper arm (R) to direction indicated by arrow so that the sub wiper arm (R) comes to cassette down position (STOP) completelyas shown in Figure M62 and keepit.
   In this position, the arrow on the Sub Wiper Arm (R) should align with the arrow on the Rack (A)(1) Unit as shown in Figure M63.

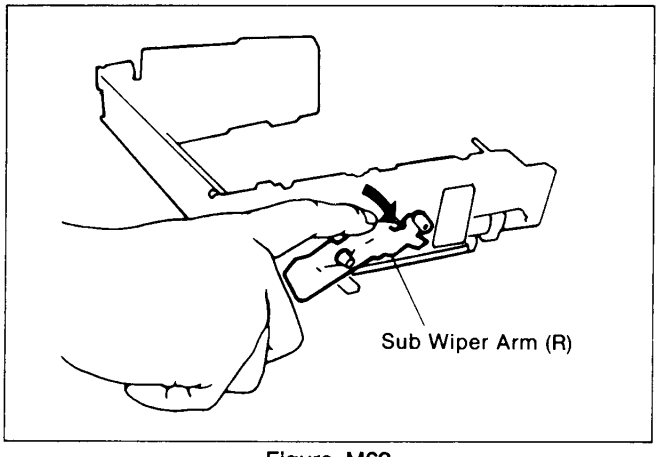


Figure M62

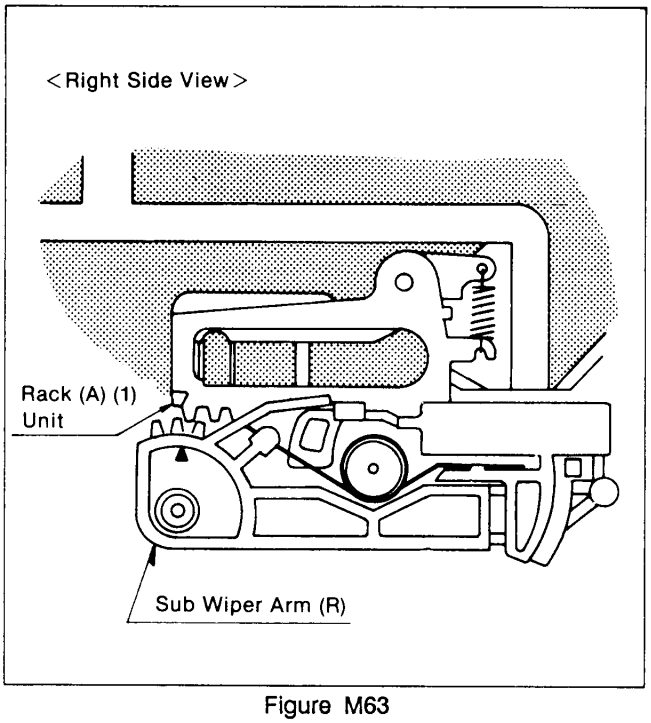


Figure M63

6. If the Cassette Compartment is not aligned, re-alignment may be accomplished by pushing the Main Shaft Unit to the right (gently) and pushing the front of the Rack Unit to the left. This procedure will disengage the teeth of the Rack Gear from the teeth on Sub Wiper Arm assembly. This will allow you to change the positional relationship between the Sub Wiper Arm Assembly and Rack Unit. This procedure is best attempted in the EJECT position. Once this is done, check for smooth operation of the compartment by inserting a cassette, and pushing in, and down.

C. Installation Procedure

1. Bring loading mechanism to the STOP (Sub-load) position.
2. Confirm that the chassis is aligned properly for Alignment Condition as shown in Figure M46 and M47.
3. Put the Sub Wiper Arm (R) in its full down position (Sub Wiper Arm should rest on plastic protrusion on the bottom of the right side plate).
4. Install the cassette compartment (without cassette holder) to chassis so that the rectangular marking (or slot) on the connection gear should be line up with first tooth of the Rack Gear as shown in Figure M64 and M65.

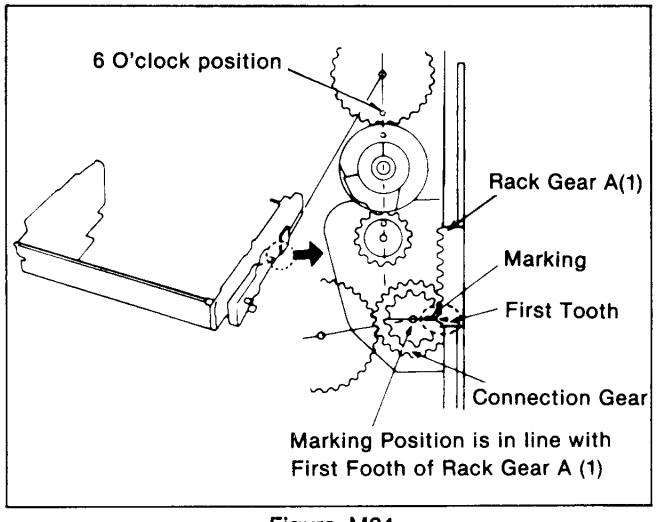


Figure M64

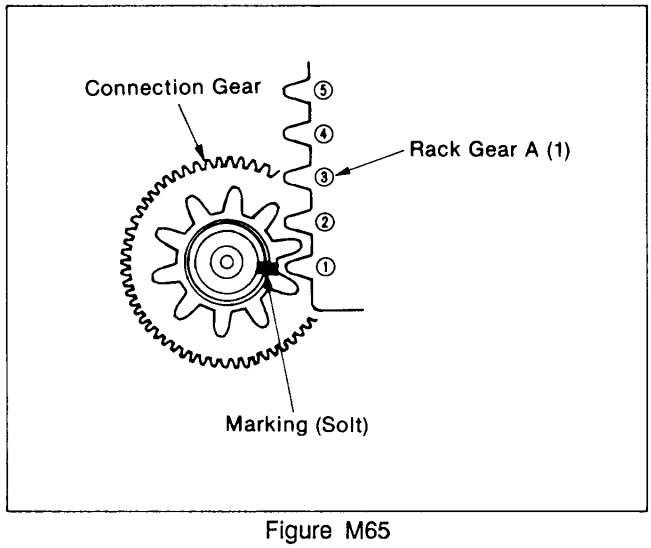


Figure M65

5. Tighten the 4 screws (D) as shown in Figure M66.

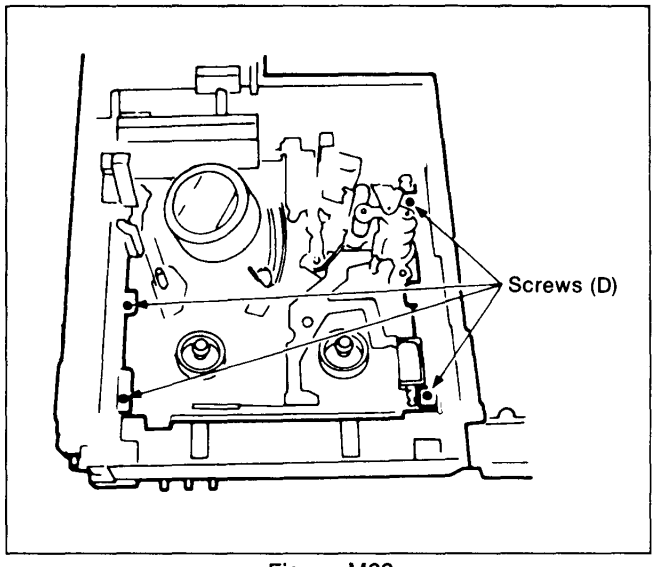


Figure M66

6. Manually move the loading mechanism toward the EJECT position.
7. Stop the manual eject procedure just before completion, so that the Sub Wiper Arms straight up. This position is also characterized by the channel guides (In the Wiper Arms) being directly under the cut outs on the top of the Cassette Compartment base(Figure M67).
8. Install the Cassette Holder Unit in the Cassette Compartment Base. The Cassette Holder should drop into place if the Sub Wiper Arms are portioned as called for in step 7.

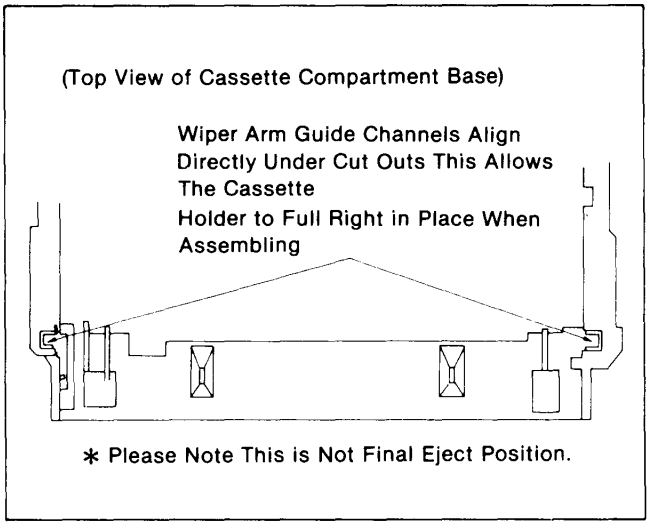


Figure M67

<<NOTE>>

For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Figure M68.

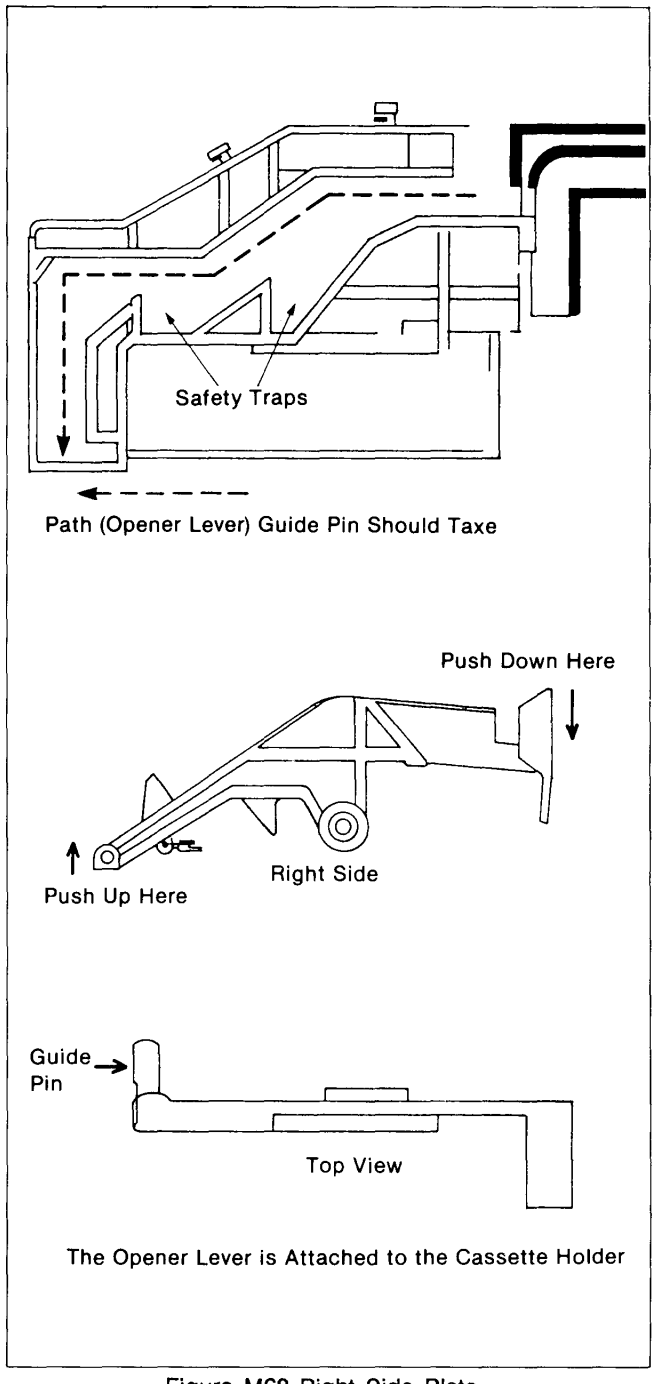


Figure M68 Right Side Plate

9. Install the top plate on the Cassette Compartment Base and tighten the 2 screws (A) as shown in Figure M60.
10. Manually confirm that front loading and main loading run smoothly. Also confirmEJECT before power is applied.

Section 5

ELECTRICAL ADJUSTMENTS

CONTENTS

This section provides complete electrical adjustment procedures which may be required for electrical circuits of S-VHS video cassette recorder AG-7350 and S-VHS video cassette player AG-7150.

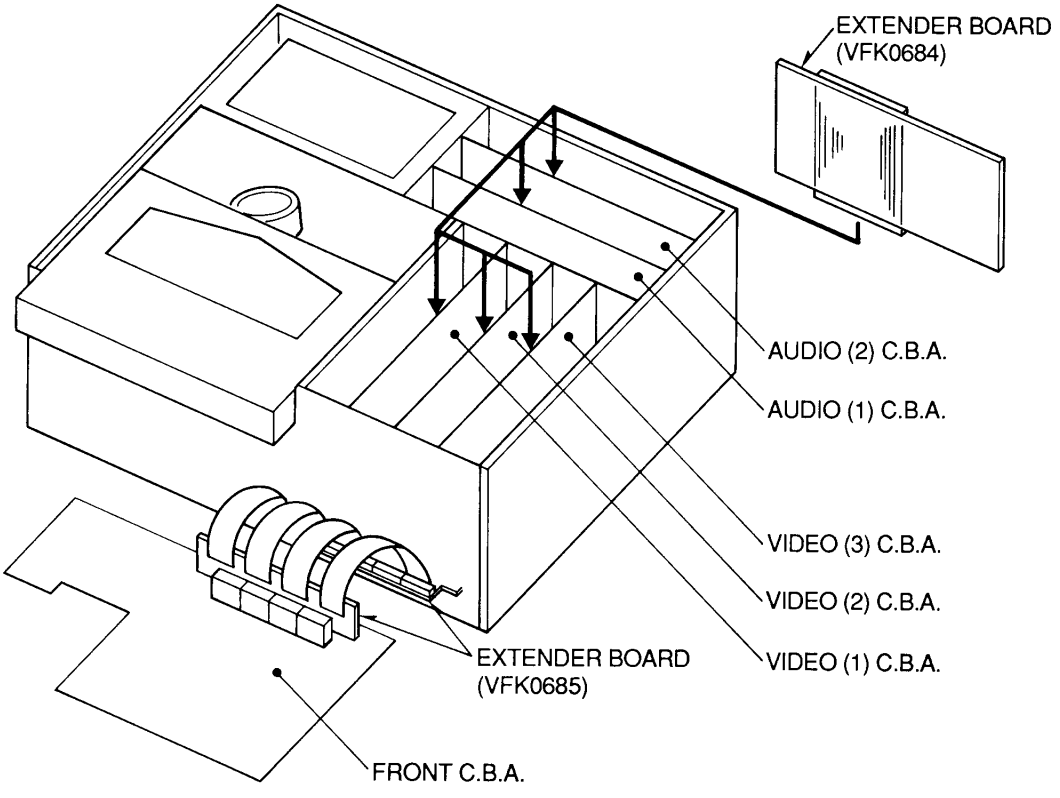
5-1. TEST EQUIPMENT

To perform the electrical adjustments completely, the following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage range : 0.001 to 50V
2. Dual-Trace Oscilloscope
   Voltage Range : 0.005 to 50V/div
   Frequency Range : DC to 400MHz
   Probes : 10 : 1 and 1 : 1
3. Frequency Counter
   Frequency Range : 0 to 10MHz
4. Signal Generator (Sinewave)
   Frequency Range : 0 to 500KHz
5. Video Sweep Generator
   Frequency Range : 0 to 10MHz
6. Composite Signal Generator
   Output : Colour Bar, Multi Burst, Sin 2T Pulse & Bar etc ...
7. Spectrum Analyzer
8. Colour Monitor TV
9. VHS Alignment Tape (VFM8180HADH)
10. S-VHS Blank Tape
11. VHS Blank Tape
12. Extender (VFK0684) for Mother board checking
13. Extender (VFK0685) for Front board checking

5-2. SERVICE INFORMATION

5-2-1. How to use the extender boards (VFK0684, VFK0685)



5-3. ADJUSTMENT PROCEDURE

5-3-1. How to read the adjustment procedures

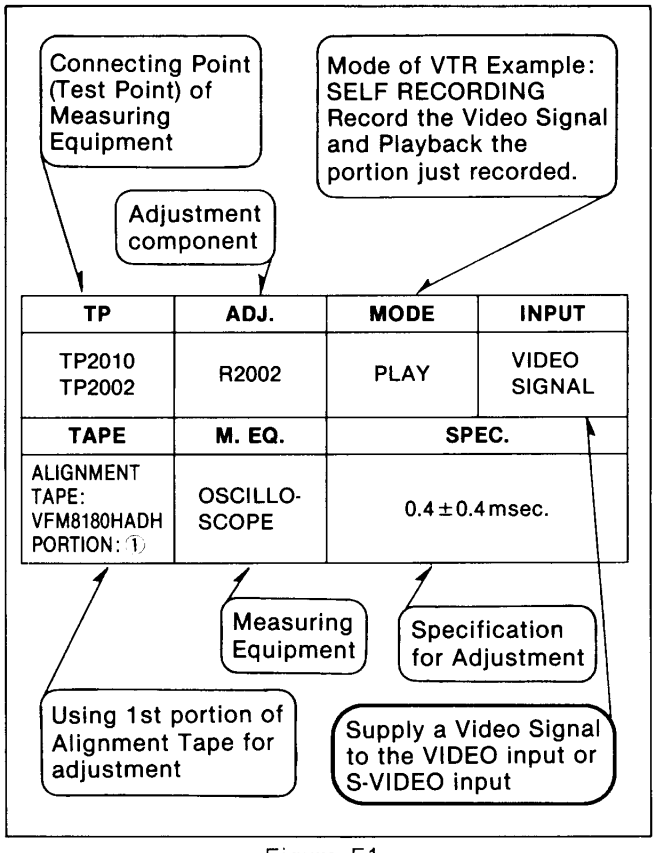


Figure E1

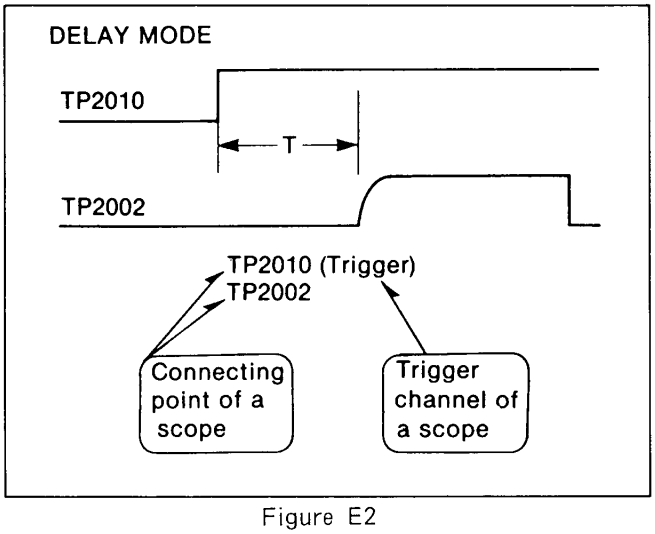


Figure E2

5-3-2. Standard set-up conditions

Unless otherwise specified, the selection switches and on-screen mode should be set as the following conditions.

Note : Unless otherwise specified, all adjustments are effective for both AG-7350 and AG-7150.

1. Normal/Hi-Fi Audio Input level VRs (CH1/CH2) ... Centre Fix position
2. S-VHS Select ... ON position (On-Screen setting)
3. Tracking Control VR ... Centre Fix position
4. Slow Tracking VR ... Centre Fix position
5. Video Mode ... Auto mode (On-Screen setting)
6. Norm/Hi-Fi SW ... Norm mode
7. Dolby NR ... OFF mode (On-Screen setting)
8. TV System...PAL position.

Note: Video signal should be supplied from the BNC video input connector (not S-VIDEO input connector), if there is not mention of input in the INPUT column.

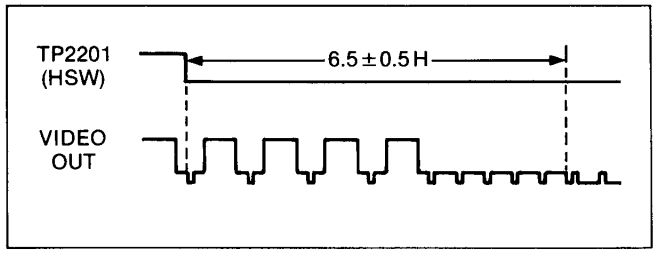
SERVO SECTION

5-3-3. PAL PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) VIDEO OUT	VR2203	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: ②	OSCILLO-SCOPE	6.5H±0.5H	

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

1. Set the TV system switch to the PAL position.
2. Play back the PAL alignment tape at the portion 2.
3. Connect the oscilloscope to the video output for CH-1 and TP2201 for CH-2.
4. Adjust VR2203 for 6.5H +/-0.5H as shown in Figure E3.



Figu re E3.

5. Change the triggering slope of the oscilloscope form "-" to "+" side, and confirm that the difference between the rising and falling edges become less than 20 usec.

5-3-4. NTSC PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 VIDEO OUT	VR2203	NTSC PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION: ②	OSCILLO-SCOPE	6.5H±0.5H	

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

1. Set the TV system switch to the NTSC position.
2. Play back the NTSC alignment tape at the portion 2.
3. Connect the oscilloscope to the video output for CH1 and TP2201 for CH2.
4. Adjust VR2203 for 6.5H +/- 0.5H as shown in Figure E4.
5. Change the triggering slope of the oscilloscope from "-" to "+" sided, and confirm that the difference between the rising and falling edges become less than 20 usec.

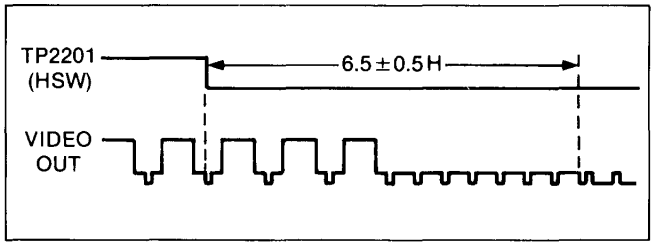


Figure E4

5-3-5. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP2202 (CTL)	VR2207	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: ②	OSCILLO-SCOPE	T=0.4±0.4msec	

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

1. Play back the alignment tape at the portion 2.
2. Connect the oscilloscope to TP2201 for CH-1 and TP2202 for CH-2.
3. Adjust VR2207 for 0.4 +/-0.4msec as shown in Figure E5.

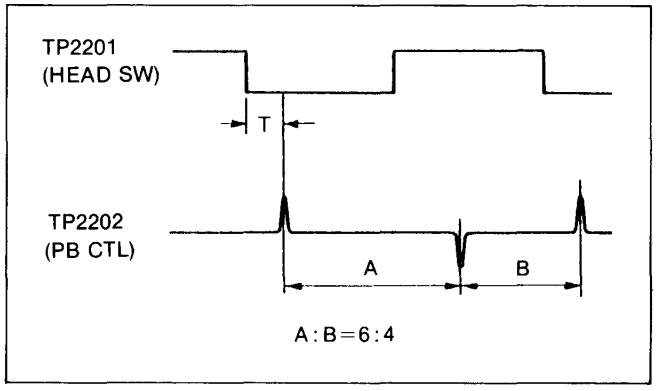


Figure E5

5-3-6. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2203	VR2208	PAL SLOW	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: ②	FREQ COUNTER	f=458Hz±10Hz	

1. Play back the alignment tape at the portion 2 and place the unit in slow mode.
2. Connect the jumper wire between TP2204 and GND.
3. Connect the frequency counter to TP2203.
4. Adjust VR2208 so that the reading of frequency counter is 458Hz +/-10Hz.
5. After this adjustment, remove the jumper wire from TP2204 and GND.

5-3-7. FORWARD SLOW TRACKING ADJUSTMENT · (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2205	PAL SLOW PLAY	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	ENVELOPE LEVEL: A=B	

1. Record a monoscope signal for a few minute and play back the just recorded portion in the slow mode.
2. Connect the oscilloscope to TP3004 for CH-1 (which triggered with H.SW signal).
3. Adjust VR2205 so that the RF envelope becomes the same level between A and B portions as shown in Figure E6.

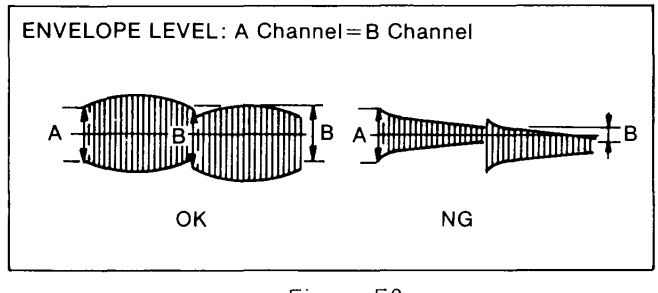


Figure E6

5-3-8. FORWARD SLOW TRACKING ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2205	PAL SLOW	
TAPE	**M. EQ.**	**SPEC.**	
MONOSCOPE RECORDED TAPE	OSCILLO-SCOPE	ENVELOPE LEVEL: A=B	

1. Prepare the prerecorded tape which recorded a monoscope signal on another recorder such as AG-7350.
2. Play back the monoscope signal in the slow mode.
3. Connect the oscilloscope to TP3004 for CH-1 (which triggered with H.SW signal).
4. Adjust VR2205 so that the RF envelope becomes the same level between A and B portions as shown in Figure E7.

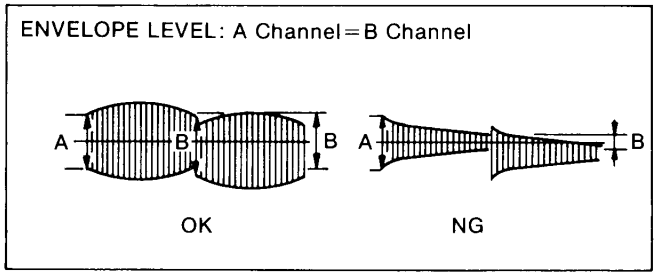


Figure E7

5-3-9. REVERSE SLOW TRACKING ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2206	PLA REVERSE SLOW	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	ENVELOPE LEVEL: A=B	

1. Record a monoscope signal for a few minute and play back the just recorded portion in the reverse slow mode.
2. Connect the oscilloscope to TP3004 for CH-1 (which triggered with H.SW signal).
3. Adjust VR2206 so that the RF envelope becomes the same level between A and B portions as shown in Figure E8.

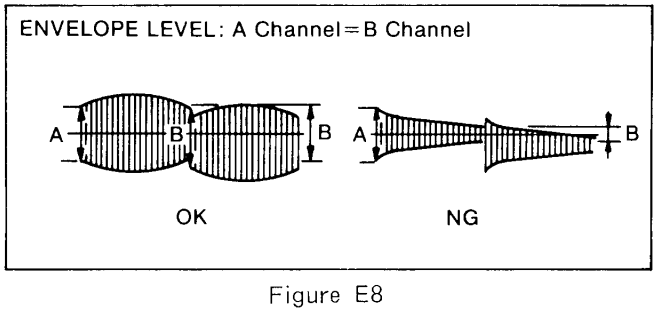


Figure E8

5-3-10. REVERSE SLOW TRACKING ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP2201 (H. SW) TP3004	VR2206	PAL REVERSE SLOW	
TAPE	**M. EQ.**	**SPEC.**	
MONOSCOPE RECORDED TAPE	OSCILLO-SCOPE	ENVELOPE LEVEL: A=B	

1. Prepare the prerecorded tape which recorded the monoscope signal on another recorder such as AG-7350.
2. Play back the monoscope signal in the reverse slow mode.
3. Connect the oscilloscope to TP3004 for CH-1 (which triggered with H.SW signal).
4. Adjust VR2206 so that the RF envelope becomes the same level between A and B portions as shown in Figure E9.

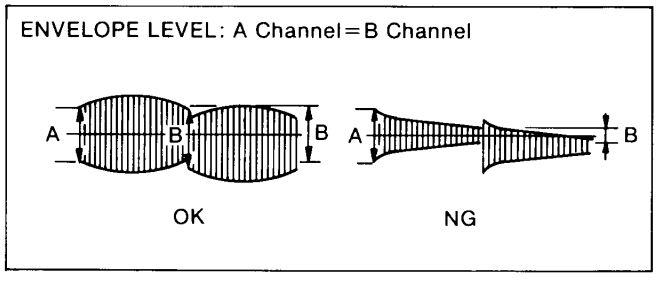


Figure E9

5-3-11. PAL V-LOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2202	PAL STILL	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH PORTION: 2	TV MONITOR	NO V-DANCING	

1. Play back the PAL alignment tape at the portion 2 in the still mode.
2. Adjust VR2202 so that the V-Dancing does not appear on the monitor screen.
3. Confirm that the no V-dancing is appeared on the monitor screen while slowly turning Jog dial on the front panel after completing this adjustment.

5-3-12. NTSC V-LOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2202	NTSC STILL	MONOSCOPE
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION: 2	TV MONITOR	NO V-DANCING	

1. Play back the NTSC alignment tape at the portion 2 in the still mode.
2. Adjust VR2204 so that the V-dancing does not appear on the monitor screen.
3. Confirm that the no V-dancing is appeared on the monitor screen while slowly turning Jog dial on the front panel after completing this adjustment.

VIDEO SECTION

5-3-13. AGC LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3501	STOP	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	1.0Vp-p ±0.02V	

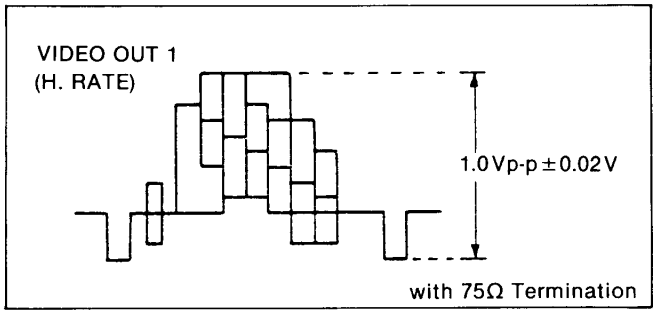


Figure E10

5-3-14. On-Screen Display H POSITION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3502	C3586	STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR	DOLBY NR OFF=ON MAGENTA	

1. Supply a colour bar signal to the video input connector.
2. Place the unit in the E-E mode and push the "screen display" button to monitor the colour bar with on-screen characters.
3. Adjust C3586 so that the character of "OFF" for DOLBY NR is positioned as shown in Figure E11.

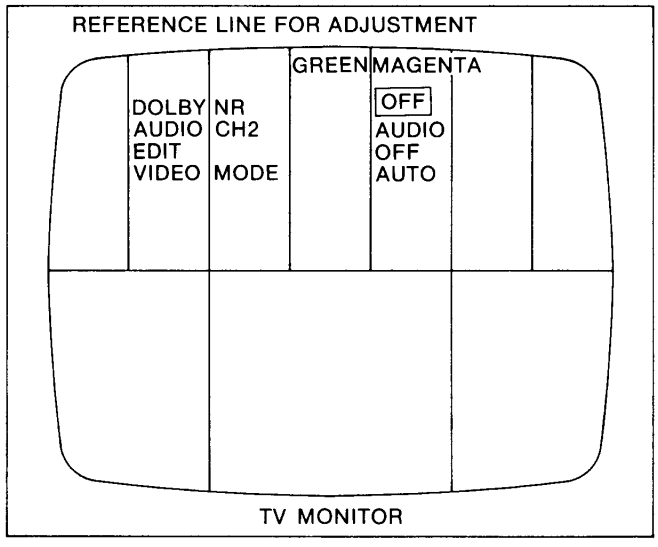


Figure E11

5-3-15. VHS DEVIATION ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP3003	VR8004	PAL VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	INNERBEAT IS MINIMUM AS POSSIBLE	

1. Supply a colour bar signal to the video input on the rear panel.
2. Set the signal generator (sine wave) frequency and output as follows and supply it to TP3006.

   Frequency : 3.8MHz +/-0.05MHz
   Output : 50mVp-p - 100mVp-p

3. Connect the oscilloscope to TP3006.
4. Place the unit in the recording mode.
5. Adjust VR8004 so that the inner beat at the white portion of the colour bar becomes minimum as posible as shown in Figure E12.

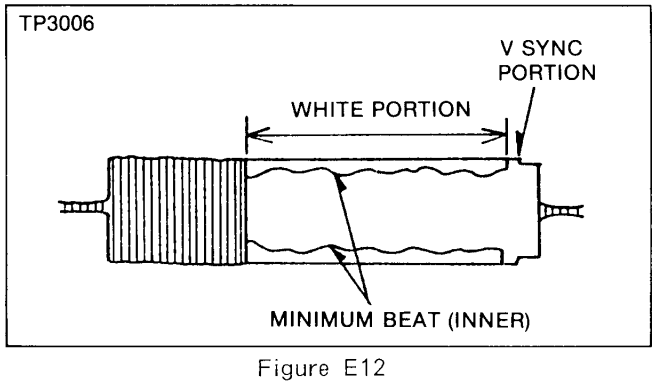


Figure E12

5-3-16. S-VHS DEVIATION ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP3003	VR3003	PAL S-VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	INNERBEAT IS MINIMUM AS POSSIBLE	

Note: This adjustment should be always completed after completing the VHS Deviation adjustment.

1. Set the unit in the S-VHS mode.
2. Supply a colour bar signal to the video input on the rear panel.
3. Connect the signal generator (Sine wave) to TP3006 and set the frequency and output level as follows.

   Frequency : 5.4MHz+/-0.05MHz
   Output : 50mVp-p - 100mVp-p

4. Connect the oscilloscope to TP3006.
5. Place the unit in the recording mode.
6. Adjust VR3003 so that the inner beat at white portion of the colour bar becomes minimum as possible as shown in Figure E13.

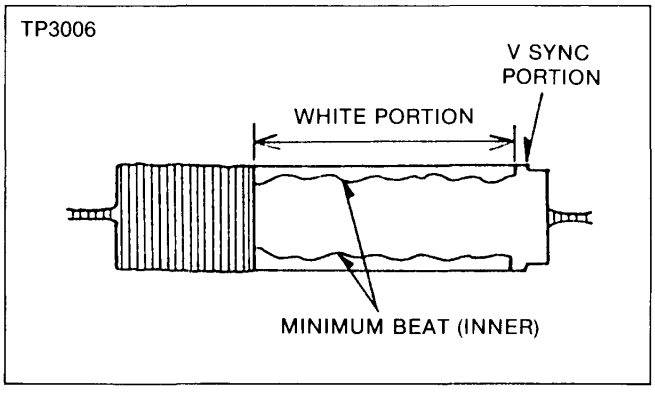


Figure E13

5-3-17. YNR BALANCE ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP8003	VR8003	PAL STOP	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	LESS THAN 50mVp-p	

1. Supply a colour bar signal to the video input on the rear panel.
2. Connect the oscilloscope to TP8003.
3. Adjust VR8003 so that the waveform becomes minimum as possible (less than 50mVp-p) as shown in Figure E14.

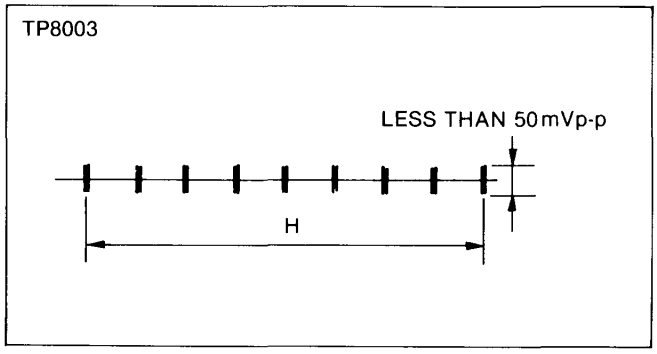


Figure E14

5-3-18 YNR BALANCE ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP8003	VR8003	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED S-VHS TAPE	OSCILLO-SCOPE	LESS THAN 50mVp-p	

1. Prepare the prerecorded S-VHS tape which recorded a colour bar on another recorder such as AG-7350.
2. Play back the colour bar signal.
3. Connect the oscilloscope to TP8003.
4. Adjust VR8003 so that the carrier leakage is minimized (less than 50mVp-p) as shown in Figure E15.

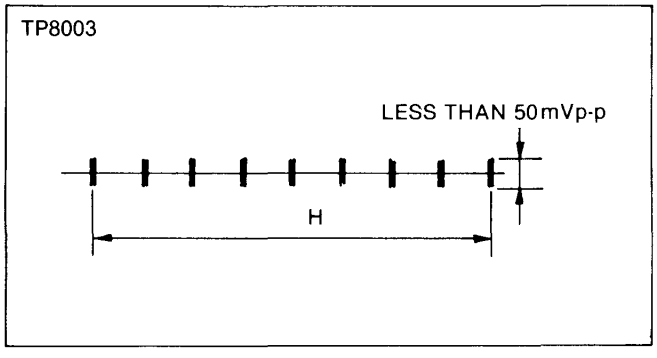


Figure E15

5-3-19. S-VHS RECORDING CURRENT ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP5003 (HOT) TP5002 (GND)	VR5002 (C) VR5001 (Y)	PAL S-VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
S-VHS BLANK TAPE	OSCILLO-SCOPE	35mVp-p±2mV (C) 150mVp-p±10mV (Y)	

1. Supply a colour bar signal to the video input.
2. Place the unit in the S-VHS recording mode.
3. Connect the oscilloscope to TP5003 (HOT) and TP5002 (GND).
4. Before the chrominance recording current adjustment, the luminance recording current (VR5001) should be closed to observe the chrominance signal.
   (In another way, the luminance current can be closed by making the short circuit between TP3007 and TP3006)
5. Adjust VR5002 so that the cyan level is 35 +/- 2mVp-p as shown in Figure E16.

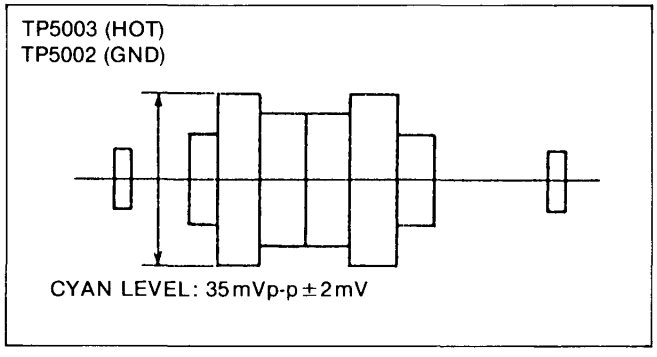


Figure E16

6. Next, adjust VR5001 so that the luminance signal level is 150 +/- 10mVp-p as shown in Figure E17.

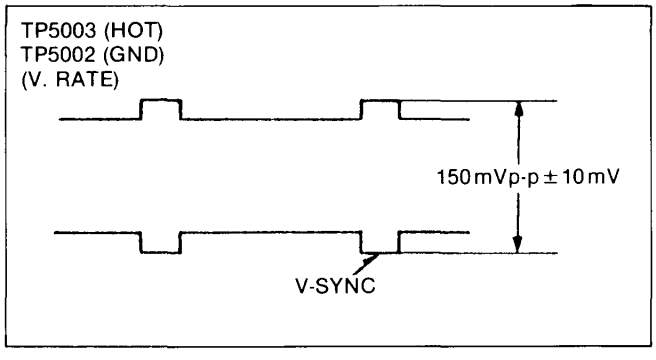


Figure E17

5-3-20. VHS Y RECORDING CURRENT ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP5003 (HOT) TP5002 (GND)	VR3002	PAL VHS RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	150mVp-p±10mV	

Note: This adjustment should be always completed after the S-VHS recording current adjustment.

1. Supply a colour bar signal to the video input.
2. Place the unit in the normal VHS recording mode.
3. Connect the oscilloscope to TP5003 (HOT) and TP5002 (GND).
4. Adjust VR3002 so that the luminance signal level is 150 +/- 10mVp-p as shown in Figure E18.

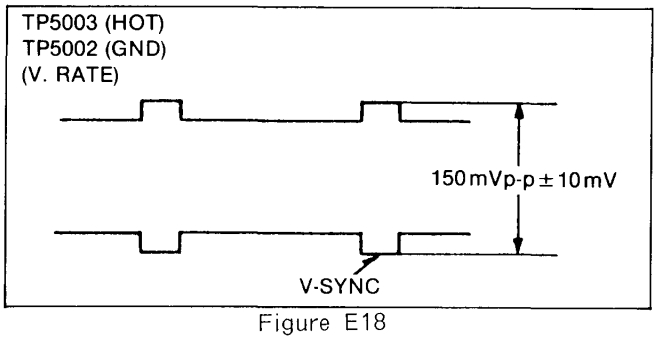


Figure E18

5-3-21. VHS Y PLAYBACK LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT 1	VR3503	PAL VHS PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELFE RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after completion of all adjustment on the recording loop.

1. Supply a colour bar signal to the video input and recording it in the normal VHS mode for a few minute.
2. Connect the oscilloscope to the video output 1 with 75ohm termination.
3. Play back the just recorded portion.
4. Adjust VR3503 for 1.0 +/-0.02Vp-p as shown in Figure E19.

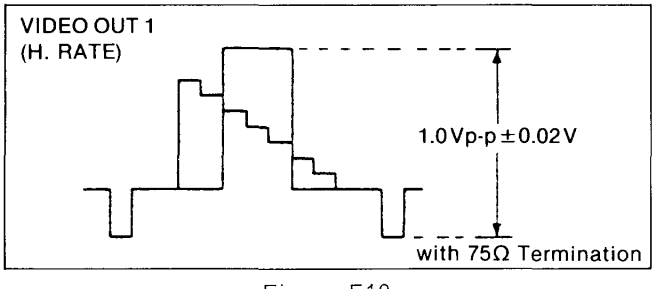


Figure E19

5-3-22. VHS Y PLAYBACK LEVEL ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUTPUT 1	VR3503	PAL VHS PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

1. Prepare the normal VHS prerecorded tape which recorded a colour bar signal on another set such as AG-7350.
2. Connect the oscilloscope to the video output 1 with 75ohm termination.
3. Play back the colour bar signal.
4. Adjust VR3502 for 1.0 +/- 0.02Vp-p as shown in Figure E20.

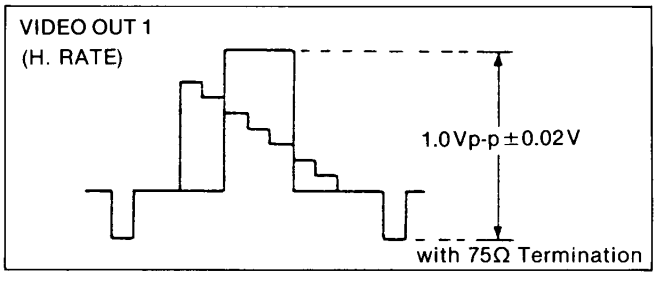


Figure E20

5-3-23. Y PLAYBACK LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8010	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the VHS Y playback level adjustment.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to the video out 1 connector with a 75 ohm termination.
4. Adjust VR8010 for 1.0 +/-0.02Vp-p as shown in Figure E21.

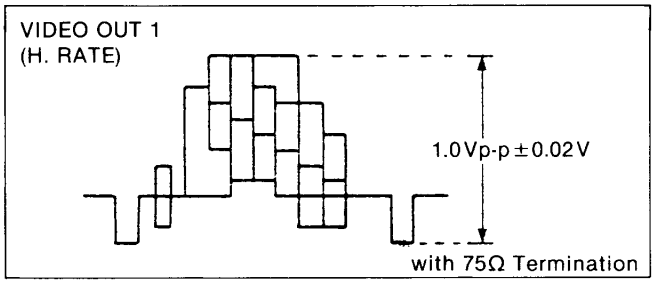


Figure E21

5-3-24. Y PLAYBACK LEVEL ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8010	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COROUR BAR RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the VHS Y playback level adjustment.

1. Prepare the prerecorded tape which recorded a colour bar on another recorder (AG-7350).
2. Play back the colour bar signal.
3. Connect the oscilloscope to the video output 1 connector with 75ohm termination.
4. Adjust VR8010 for 1.0Vp-p +/-0.02Vp-p as shown in Figure E22.

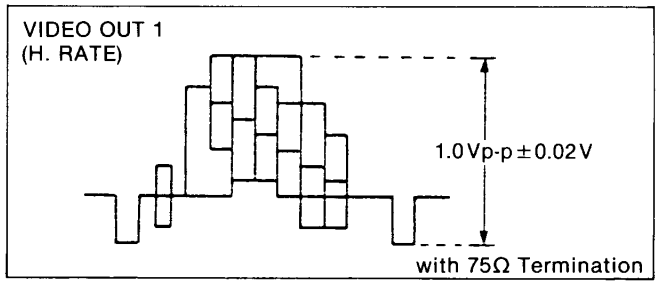


Figure E22

5-3-25. PLAYBACK SUB EMPHASIS INPUT LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP3005	VR3001	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	400mVp-p±10mV	

Note: This adjustment should be always completed after completion of all adjustments on the recording loop.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to TP3005.
4. Adjust VR3001 for 400 +/-10mVp-p as shown in Figure E23.

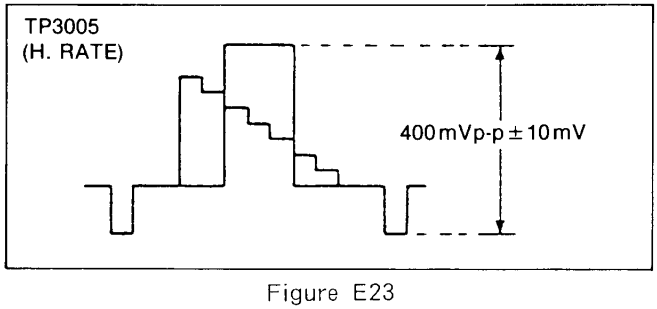


Figure E23

5-3-26. PLAYBACK SUB EMPHASIS INPUT LEVEL ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP3005	VR3001	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED TAPE	OSCILLO-SCOPE	400mVp-p±10mV	

1. Prepare the prerecorded S-VHS tape which recorded a colour bar on another recorder (AG-7350).
2. Play back the colour bar signal.
3. Connect the oscilloscope to TP3005.
4. Adjust VR3001 for 400mVp-p +/- 10mVp-p as shown in Figure E24.

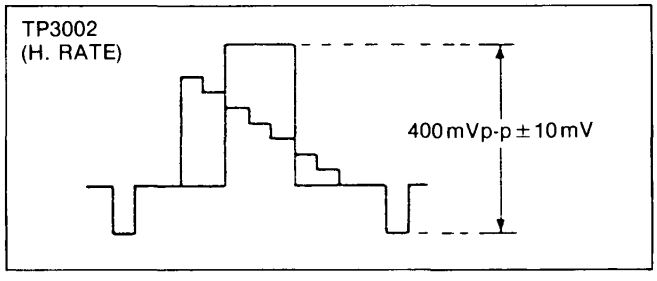


Figure E24

5-3-27. S-VHS PLAYBACK LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3004	PAL S-VHS PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the playback sub emphasis input level adjustment.

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Connect the oscilloscope to the video out 1 connector with a 75 ohm termination.
3. Adjust VR3004 for 1.0 +/-0.02Vp-p as shown in Figure E25.

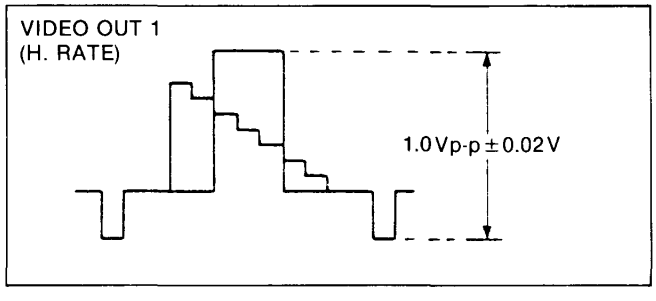


Figure E25

5-3-28. S-VHS PLAYBACK LEVEL ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3004	PAL S-VHS PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED TAPE	OSCILLO-SCOPE	1.0Vp-p±0.02V	

Note: This adjustment should be always completed after the playback sub emphasis input level adjustment.

1. Prepare the prerecorded S-VHS tape which recorded a colour bar on another recorder (AG-7350).
2. Play back the colour bar signal.
3. Connect the oscilloscope to the video output 1 connector with a 75 ohm termination.
4. Adjust VR3004 for 1.0 +/-0.02Vp-p as shown in Figure E26.

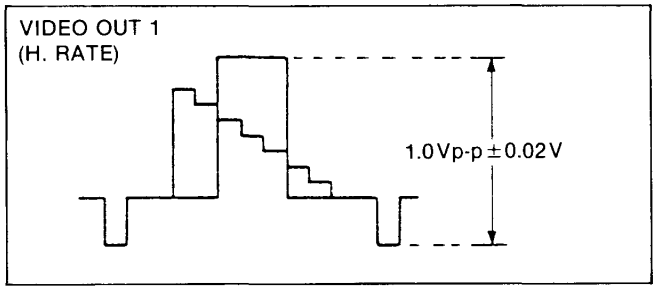
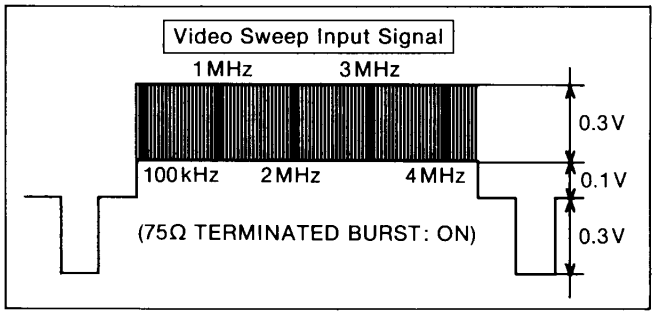


Figure E26

5-3-29. VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3005	PAL VHS PLAY	30% SWEEP WITHOUT BURST
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	100kHz: 2MHz=5: 5±0.5	

1. Set the video mode to the "B/W" mode on the on-screen setting menu.
2. Set the sweep generator output as shown in Figure E27.



Figu re E27

3. Supply the 30% sweep signal without burst signal to the video input and record it for a few minute.
4. Play back the just recorded portion.
5. Connect the oscilloscope to the video out 1 connector.
6. Adjust VR3005 so that the playback frequency response becomes the ratio of 100 : 100 +/-10 at the marker points of 100kHz and 2MHz as shown in Figure E28.

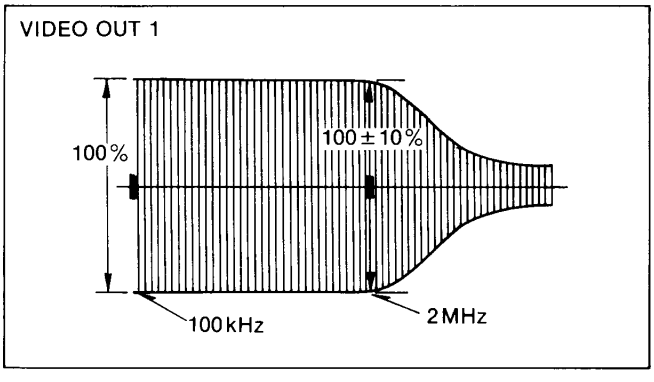


Figure E28

5-3-30. VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3005	PAL VHS PLAY	
TAPE	**M. EQ.**	**SPEC.**	
30% SWEEP RECORDED TAPE	OSCILLO-SCOPE	100kHz: 2MHz=100: 100±15	

1. Prepare the prerecorded tape which recorded a 30% sweep with burst signal on another recorder (AG-7350) referring Figure E28.
2. Play back the just recorded portion.
3. Connect the oscilloscope to video out 1.
4. Adjust VR3005 so that the playback frequency response becomes the ratio of 100 : 100 +/- 10 at the marker points of 100kHz and 2MHz as shown in Figure E29.

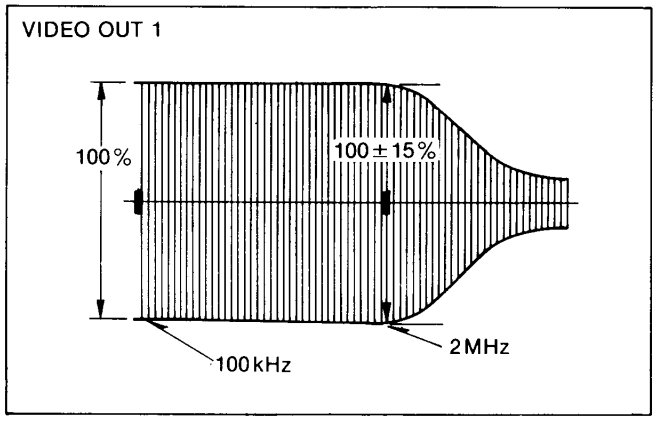


Figure E29

5-3-31. S-VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3007	PAL S-VHS PLAY	30% SWEEP WITHOUT BURST
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	100kHz: 4MHz=100: 60±10	

1. Set the video mode to the "B/W" mode on the On-Screen setting menu.
2. Set the sweep generator output as shown in Figure E30.
3. Supply the 30% sweep signal with burst signal to the video input and record it for a few minute.
4. Play back the just recorded portion.
5. Connect the oscilloscope to the video out 1.
6. Adjust VR3007 so that the playback frequency response becomes the ratio of 100 : 60 +/-10 at the marker points of 100kHz and 4MHz as shown in Figure E31.

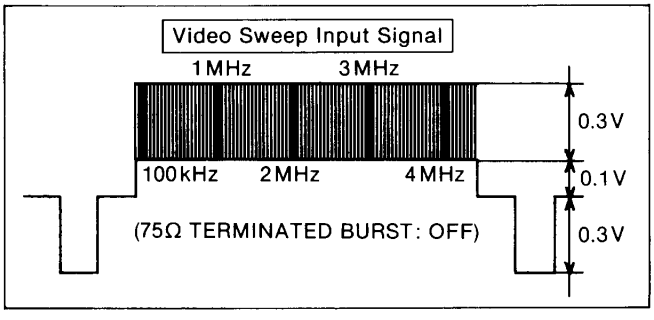


Figure E30

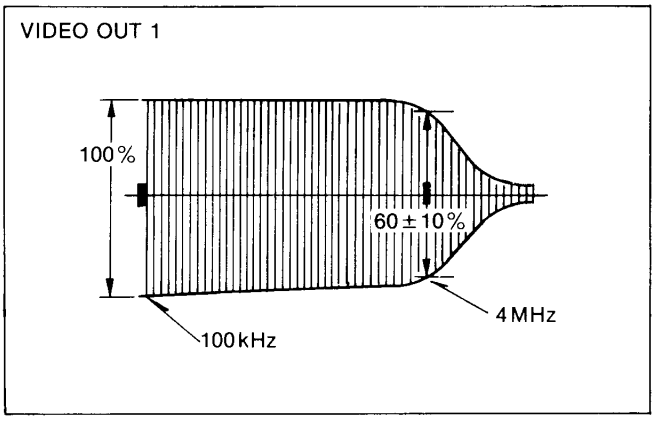


Figure E31

5-3-32. S-VHS PLAYBACK FREQUENCY RESPONSE ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3007	PAL S-VHS PLAY	
TAPE	**M. EQ.**	**SPEC.**	
30% SWEEP RECORDED S-VHS TAPE	OSCILLO-SCOPE	100kHz: 4MHz=100: 60±15	

1. Set the video mode to the "B/W" mode on the On-Screen setting menu.
2. Prepare the prerecorded S-VHS tape which recorded the sweep without burst signal on another recorder (AG-7350) as shown in Figure E28.
3. Play back the recorded tape.
4. Connect the oscilloscope to the video out 1 connector.
5. Adjust VR3007 so that the playback frequency response becomes the ratio of 100 : 60 +/- 15 at the marker points of 100KHz and 4MHz as shown in Figure E32.

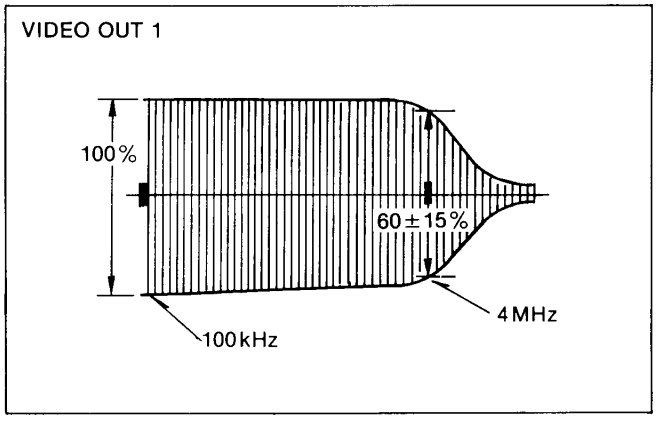


Figure E32

5-3-33. TRACKING LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TRACKING METER	VR3008	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED		0dB±0.5dB	

Note: Make sure that the tracking volume is set to thr centre fix position.

1. Supply a colour bar signal to video input and record it for a few minute.
2. Play back the just recorded portion.
3. Adjust VR3008 so that the tracking meter indicates 0dB +/-0.5dB as shown in Figure E33.

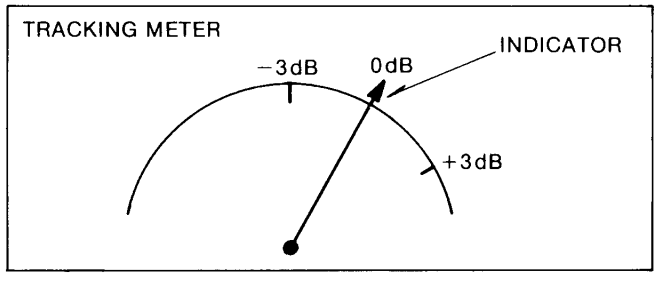


Figure E33

5-3-34. S-VHS SUPER LIMITER ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP3006	VR3006	PAL S-VHS STOP	SINEWAVE (7MHz, 200mVp-p)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR OSCILLOSCOPE	300mVp-p±10mV	

Note: Prepare a 100MHz type oscilloscope.

1. Set the signal generator (sine-wave) to 7MHz, 200mVp-p and supply it to TP3007 on the video (1) C.B.A.
2. Connect the 100MHz type oscilloscope to TP3006.
3. Adjust VR3006 for 300 +/-10mVp-p as shown in Figure E34.

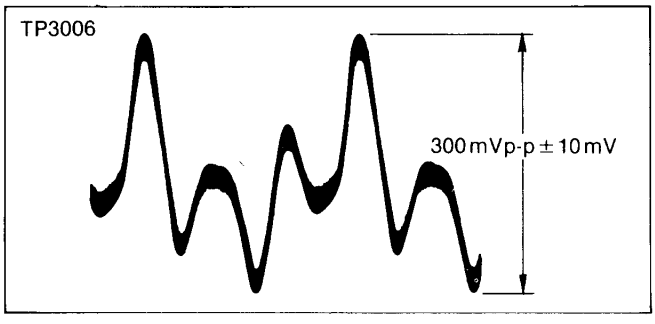


Figure E34

5-3-35. S-VHS SUPER LIMITER ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP3006	VR3006	PAL S-VHS STOP	SINEWAVE (7MHz, 200mVp-p)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR OSCILLOSCOPE	300mVp-p±10mV	

Note: Prepare a 100MHz tape oscilloscope.

1. Set the signal generator (sine-wave) to 7MHz, 200mVp-p and supply it to TP3007 on video (1) C.B.A.
2. Connect the 100MHz type oscilloscope to TP3006.
3. Adjust VR3006 for 300 +/-10mVp-p as shown in Figure E35.

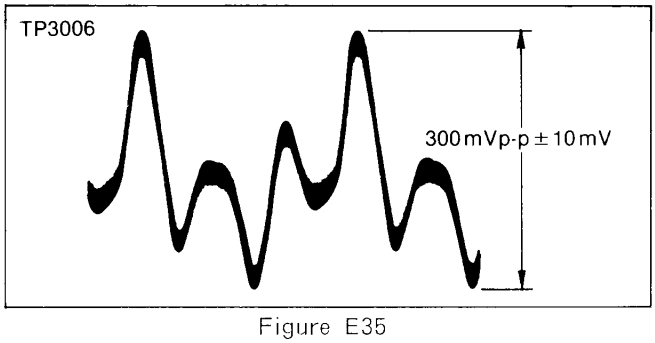


Figure E35

5-3-36. PLAYBACK CHROMA LEVEL ADJUSTMENT 1 (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP8005	VR8001	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	500mV±10mVp-p	

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the oscilloscope to TP8005.
4. Adjust VR8001 for 500m +/- 10mVp-p at the cyan portion as shown in Figure E36.

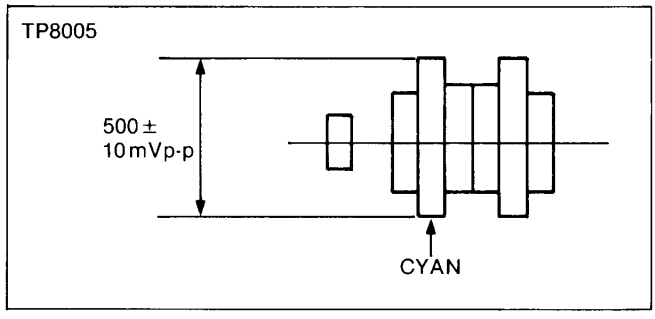


Figure E36

5-3-37. PLAYBACK CHROMA LEVEL ADJUSTMENT 1 (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP8005	VR8001	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED S-VHS TAPE	VECTORSCOPE	VECTOR COMES CENTER	

1. Prepare the recorded S-VHS tape which recorded the colour bar signal on the another recorder (AG-7350).
2. Play back a colour bar recorded tape.
3. Connect the oscilloscope to TP8005.
4. Adjust VR8001 for 500m +/- 10mVp-p at the cyan portion as shown in Figure E37.

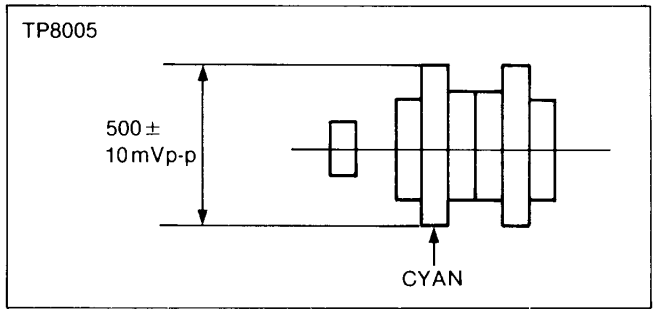


Figure E37

5-3-38. CNR ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP8002	VR8005 VR8006	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	LESS THAN 500mVp-p	

Note: This adjustment should be always completed after the YNR balance adjustment.

1. Supply a colour bar to the video input and record it for a few minute.
2. Connect the oscilloscope to TP8002.
3. Play back the just recorded portion.
4. Adjust VR8005 and VR8006 mutually so that the chroma signal is minimized as possible (less than 500mVp-p at least) as shown in Figure E38.

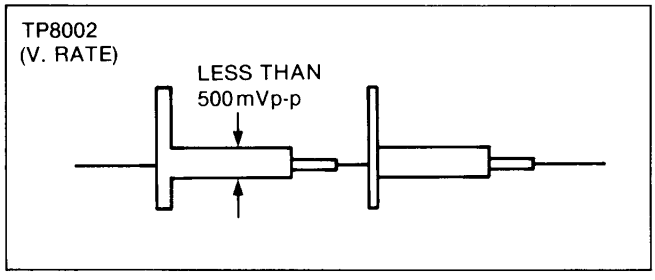


Figure E38

5-3-39. CNR ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
TP8002	VR8005 VR8006	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
COLOUR BAR RECORDED S-VHS TAPE	OSCILLO-SCOPE	LESS THAN 500mVp-p	

Note: This adjustment should be always completed after the YNR balance adjustment.

1. Prepare the prerecorded tape which recorded a colour bar signal on another recorder (AG-7350).
2. Play back the just recorded portion.
3. Connect the oscilloscope to TP8002.
4. Adjust VR8005 and VR8006 mutually so that the chroma signal is minimized as possible (less than 500mVp-p at least) as shown in Figure E39.

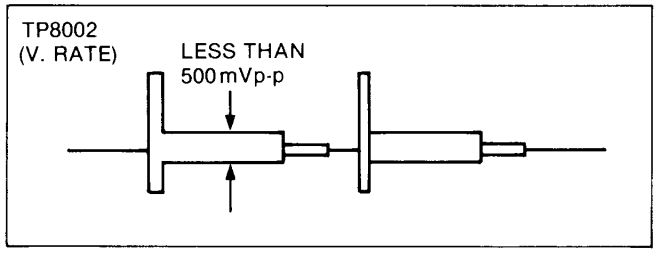


Figure E39

3-5-40. PLAYBACK CHROMA LEVEL ADJUSTMENT 2 (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8009	PAL PLAY	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	OSCILLO-SCOPE	0.6Vp-p±0.03V	

1. Supply a colour bar signal to the video input and record it for a few minute.
2. Connect the oscilloscope to the video output 1 connector with 75 ohm termination.
3. Adjust VR8009 for 0.6 +/- 0.03Vp-p as shown in Figure E40.

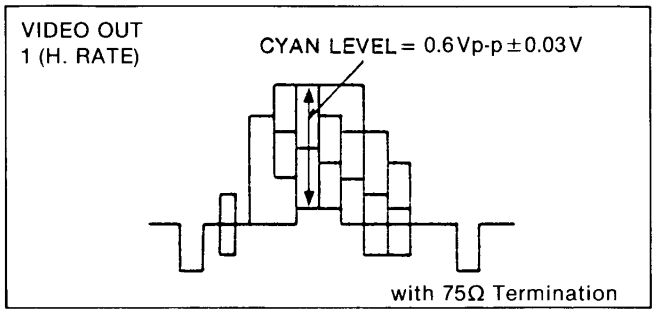


Figure E40

5-3-41. PLAYBACK CHROMA LEVEL ADJUSTMENT 2 (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8009	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.6Vp-p±0.03V	

1. Prepare the prerecorded tape which recorded a colour bar signal on another recorderv (AG-7350)
2. Play back the colour bar recorded tape.
3. Connect the oscilloscope to the video output 1 connector with 75 ohm termination.
4. Adjust VR8009 for 0.6 +/-0.03Vp-p as shown in Figure E41.

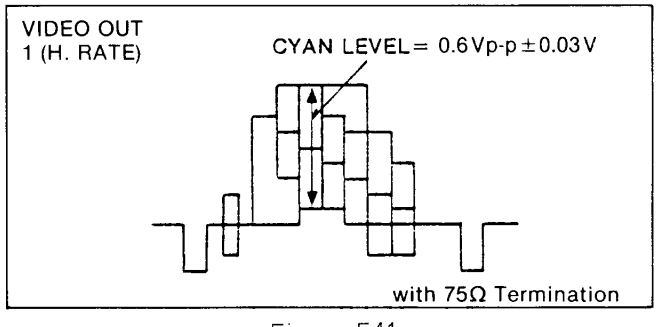


Figure E41

5-3-42. S-VHS Y/C DELAY ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8007	PAL S-VHS PLAY	SIN² T PULSE & BAR
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	WAVEFORM MONITOR	A=B±2%	

1. Supply a sin 2T pulse & bar signal and record it for a few minute.
2. Play back the just recorded portion.
3. Connect the waveform monitor to the video out 1 connector.
4. Adjust VR8007 so that the waveform becomes as shown in Figure E42.

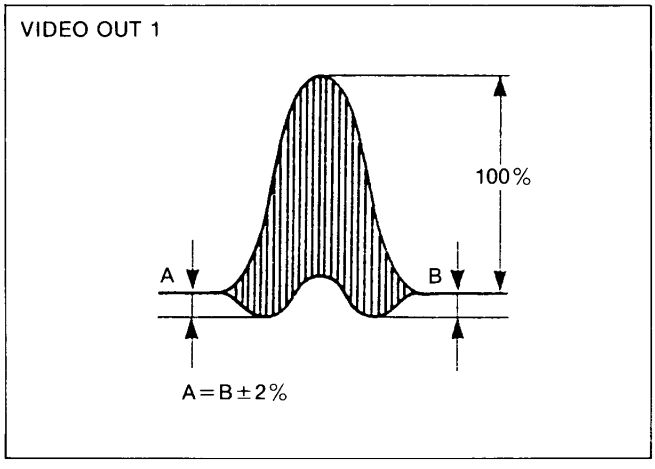


Figure E42

5-3-43. S-VHS Y/C DELAY ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR8007	PAL S-VHS PLAY	
TAPE	**M. EQ.**	**SPEC.**	
SIN² T PULSE & BAR RECORDED TAPE	WAVE FORM MONITOR	A=(B+4%)±2%	

1. Prepare the prerecorded S-VHS tape which recorded a sin 2T pulse & bar signal on recorder (AG-7350).
2. Play back the just recorded portion.
3. Connect the waveform monitor to the video output 1 connector.
4. Adjust VR8007 so that the waveform becomes as shown in Figure E43.

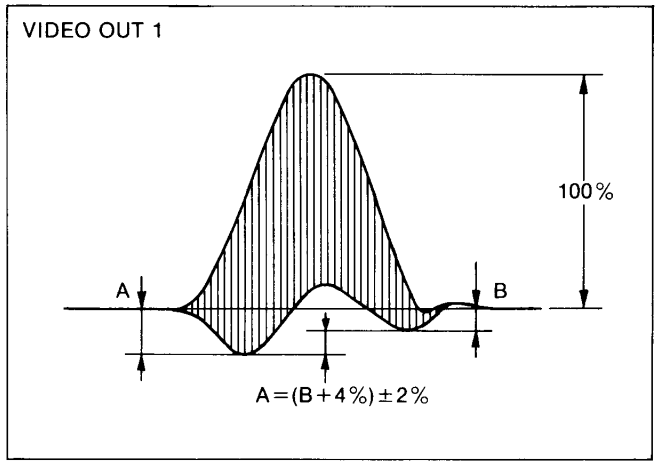


Figure E43

5-3-44. 2H DELAY LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
VIDEO OUT 1	VR3502	PAL STILL	50% FLAT FIELD WHITE
TAPE	**M. EQ.**	**SPEC.**	
SELF RECORDED TAPE	WAVEFORM MONITOR	FLICKER IS MINIMIZED (0mVp-p±20mV)	

1. Supply a 50% flat field white signal to the video input and record it for a few minute.
2. Play back the just recorded portion in the still mode.
3. Connect the waveform monitor to the video output 1 connector.
4. Adjust VR3502 so that the flicker of luminance is minimized as possible as shown in Figure E44.

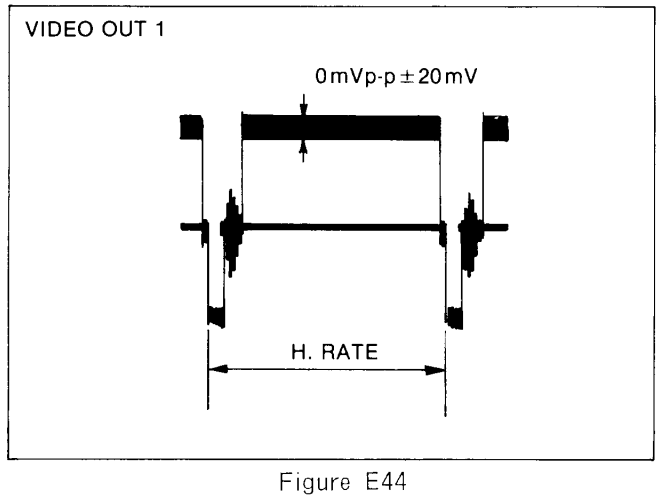


Figure E44

AUDIO SECTION

5-3-45. PREAMP LEVEL ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
NORMAL AUDIO OUT (CH1, CH2) Hi-Fi AUDIO OUT (CH1, CH2)	VR4501, VR4502, VR4701, VR4702	PAL STOP	1kHz, −8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M	NORMAL: −8dBv±0.2dBv Hi-Fi: −8dBv±2dBv	

1. Set the signal generator output to 1kHz, −8dBv and supply it to the Normal/Hi-Fi (CH1 & CH2) audio inputs and also supply a colour bar signal to the video input.
2. Set the Audio out SW to the NORM position. Adjust VR4501 (CH1) and VR4502 (CH2) for −8dBv +/−0.2dBv.
3. Set the Audio out SW to the Hi-Fi position. Adjust VR4701 (CH1) and VR4702 (CH2) for −8dBv +/−2dBv.

5-3-46. AUDIO METER ADJUSTMENT (AG-7350)

TP	ADJ.	MODE	INPUT
AUDIO METERS CH1 CH2	VR4503 VR4504	PAL STOP	1kHz, −8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	AUDIO METERS	NORMAL: 0Vu±0.5Vu Hi-Fi: 0Vu	

1. Set the signal generator output to 1kHz, −8dBv and supply it to the CH1/CH2 inputs and also supply a colour bar signal to the video input.
2. Set the Audio Output SW to the Hi-Fi.
3. Adjust VR4503 (CH1) and VR4504 (CH2) so that the CH1 and CH2 audio meters show 0VU.
4. Change the Audio Output SW to the Normal.
5. Confirm that the audio meters show 0VU +/− 0.5VU.

5-3-47. NORMAL AUDIO PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
NORM/Hi-Fi OUT (CH1/CH2)	VR4005 (CH1) VR4007 (CH2)	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH POSITON 3	OSCILLO-SCOPE	400Hz=5kHz (+/− 0.5dB)	

Note: This adjustment should be always completed before the Normal Audio Playback Gain Adjustment.

1. Play back the alignment tape at portion 3.
2. Connect the oscilloscope to the NORM/Hi-Fi outputs (CH1/CH2) on the rear panel.
3. Adjust VR4005 (CH1) and VR4007 (CH2) so that the 400Hz and 5kHz levels become the same (0 +/−0.5dB) as shown in Figure E45.

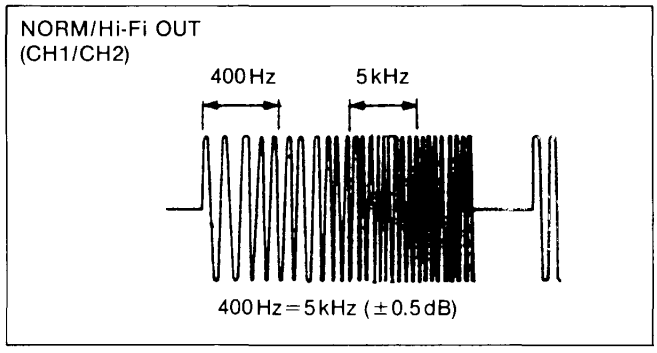


Figure E45

5-3-48. NORMAL AUDIO PLAYBACK GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
NORM/Hi-Fi OUT (CH1/CH2)	VR4006 (CH1) VR4008 (CH2)	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
1kHz, −8dBv RECORDED TAPE	OSCILLO-SCOPE	300mVp-p	

Note: This adjustment should be completed after completion of the Audio Meter Adjustment and Normal Audio Playback Frequency Adjustment.

1. Prepare the prercorded tape which recorded a audio 1kHz, −8dBv signal on another unit such as AG-7350.
2. Set the Audio out switch to the normal position.
3. Play back the above prerecorded tape and confirm that the audio CH1 and CH2 meters show on the front panel 0Vu.
4. Connect the V.T.V.M. to the audio CH1 or CH2 output on the rear panel.
5. Adjust VR4006 (CH1) or VR4008 (CH2) so that the output level is −8dBv +/− 0.3dBv.

5-3-49. NORMAL AUDIO BIAS CURRENT ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
A/C HEAD	VR4003 (S-VHS CH1) VR4009 (S-VHS CH2) VR4002 (VHS CH1) VR4004 (VHS CH2)	PAL VHS, S-VHS RECORDEING	
TAPE	**M. EQ.**	**SPEC.**	
S-VHS, VHS BLANK TAPE	V.T.V.M	S-VHS: 5.5±0.1mVrms VHS: 4±0.1mVrms	

1. Insert a S-VHS blank tape and place the unit in S-VHS recording mode.
2. Connect the V.T.V.M to the A/C Head as shown in Figure E47.
3. Adjust VR4003 (CH1) and VR4009 (CH2) for 5.5 +/-0.1mVrms.
4. Insert a VHS blank tape and place the unit in normal VHS recording mode.
5. Adjust VR4002 (CH1) and VR4004 (CH2) for 4 +/-0.1mVrms.

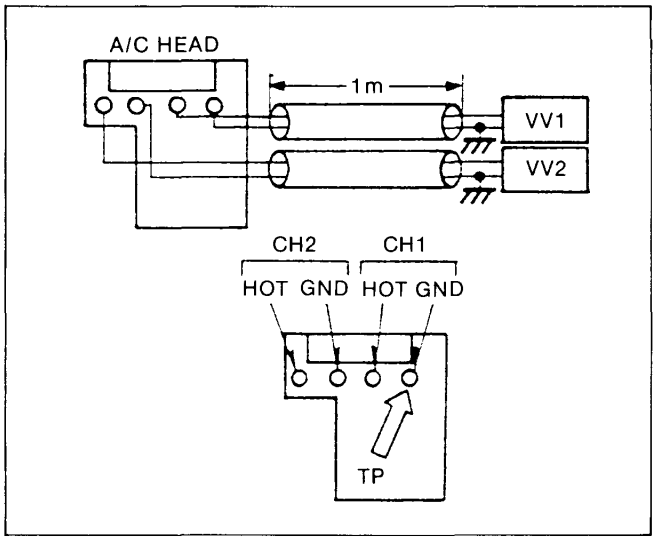


Figure E47

5-3-50. NORMAL AUDIO REC CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4007 (CH1), TP4012 (CH2) NORM/Hi-Fi OUT (CH1/CH2)	VR4010 (CH1) VR4011 (CH2)	PAL SELF RECORDING	1kHz, -8dBv SINEWAVE COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M	S-VHS: 0±0.5dBv VHS: 0±1.0dBv	

1. Insert a blank tape and place the unit in recording mode.
2. Connect two V.T.V.M.s as follow.

   V.T.V.M.(1) : NORM/HI-FI CH1/CH2 OUTPUTS
   V.T.V.M.(2) : TP4007 (CH1) / TP4012(CH2)

3. Set the signal generator to 1kHz, -8dBv and supply it to the NORM/Hi-Fi Audio Input (CH1/CH2).
4. Pre-adjust VR4010 (CH1) and VR4011 (CH2) so that the reading of V.T.V.M (2) are approx. 400mVp-p.
   And it suppose the reading of V.T.V.M.(1) would be 0dBm in this time.
5. After this adjustment, record a colour bar and 1KHz, -8dBv sinewave signal for a few minute. And playback the just recorded portion and confirm that the audio level at the NORM/HI-FI CH1/CH2 output for 0dbm.
6. If the playback audio level at the NORM/HI-FI CH1/CH2 outputs are not 0dbm, re-adjust VR4010(CH1), VR4011(CH2) based on 400mVp-p at TP4007/TP4012 and repeat steps 3 to 6.

5-3-51. NORMAL AUDIO TIME CODE METER LEVEL ADJUSTMENT (AG-7350)

TP	ADJ.	MODE	INPUT
CH2 AUDIO METER	VR4001	PAL RECORDING	TIME CODE SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE		0±0.5Vu	

1. Install RS-232 interface with time code generator/Reader board (AG-IA232TC) into the VTR.
2. Set the Audio CH2 selection on the OSD to the Time Code mode.
3. Set the Meter select SW to the Normal.
4. Place the unit in the time code recording
5. Adjust VR4001 so that the audio CH2 level meter indicates 0 +/-0.5VU point on the front panel.

5-3-52. NTSC Hi-Fi AUDIO HEAD SWITCHING SHIFER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4706 (H SW) TP4705 or TP4707	VR4708	NTSC PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8080HQFP PORTION: 2	OSCILLO-SCOPE	NO HEAD SWITCHING GAP	

1. Set the TV System switch to the NTSC position.
2. Play back the NTSC alignment tape at the portion 2.
3. Connect the oscilloscope CH1 to TP4706 and CH2 to TP4705 or TP4707.
4. Adjust VR4708 so that the head switching gap is not occured as shown in Figure E48.
5. Turn the tracking VR on the front panel from CCW position to CW position and confirm that the head switching gap is not occured.

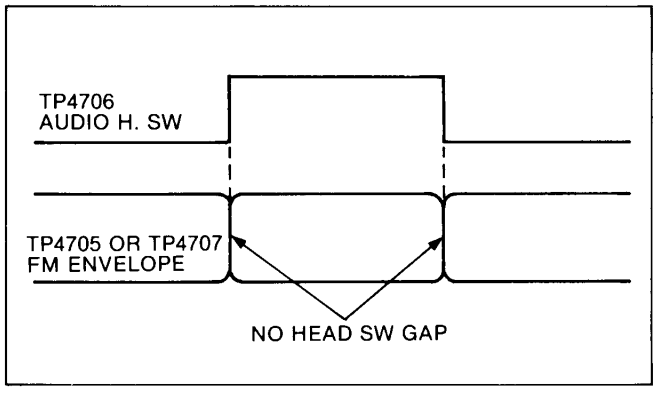


Figure E48

5-3-53. PAL Hi-Fi AUDIO HEAD SWITCHING SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4706 (H SW) TP4705 or TP4707	VR4707	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
VFM8180HADH POSITON 2	OSCILLO-SCOPE	NO HEAD SWITCHING GAP	

This adjustment should be always compleded after NTSC Hi-Fi audio head switching shifter adjustment.

1. Set the TV system switch to the PAL position.
2. Play back the alignment tape at portion 2.
3. Connect the oscilloscope CH1 to TP4706 and CH2 to TP4705 or TP4707.
4. Adjust VR4707 so that the head switching gap is not occured as shown in Figure E49.
5. Turn the tracking VR on the front panel from CCW position to CW position and confirm that the head switching gap is not occured.

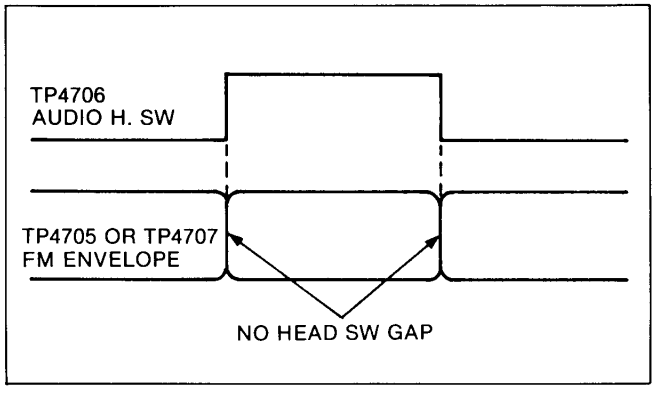


Figure E49

5-3-54. NTSC Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4703 VR4711	NTSC STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	1.3MHz +/- 10kHz (CH1) 1.7MHz +/- 10kHz (CH2)	

1. Make a short circuit between both Hi-Fi audio Inputs (CH1 & CH2) and GND.
2. Set the TV system switch to the NTSC position.
3. Connect the frequency counter to TP4704 (CH1) or TP4708 (CH2).
4. Adjust VR4703 (CH1) or VR4711 (CH2) so that the reading of frequency counter is 1.3MHz +/-10KHz for CH1 and 1.7KHz +/-10KHz for CH2.

5-3-55. PAL Hi-Fi AUDIO CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4705 VR4710	PAL STOP	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	1.3MHz +/- 10kHz (CH1) 1.7MHz +/- 10kHz (CH2)	

1. Make a short circuit between both Hi-Fi audio inputs (CH1 & CH2) and GND.
2. Set the TV system switch to the PAL position.
3. Connect the frequency counter to TP4704 (CH1), TP4708 (CH2).
4. Adjust VR4705 (CH1) or VR4710 (CH2) so that the reading of frequency counter is 1.3MHz +/- 10kHz for CH1 and 1.7kHz +/- 10kHz for CH2.

5-3-56. NTSC Hi-Fi AUDIO DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4704 TP4708	VR4704 VR4712	NTSC STOP	1kHz, -8dBv SINEWAVE
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SPECTRUM ANALYZER	fw=100kHz +/- 5kHz	

1. Set the TV system switch to the NTSC position.
2. Set the signal generator to 1KHz, -8dBv and supply it to the Hi-Fi Audio Inputs (CH1/CH2).
3. Connect the spectrum analyzer to TP4704 and set its centre frequency to 1.3MHz.
4. Adjust VR4704 (CH1) so that the width of fw portion becomes 100KHz +/- 5KHz as shown below.
5. Re-connect the probe of spectrum analyzer to TP4708 (CH2) and set its centre frequency to 1.7MHz.
6. Adjust VR4712 (CH2) so that the width of fw portion becomes 100KHz +/-5KHz as shown in Figure E50.

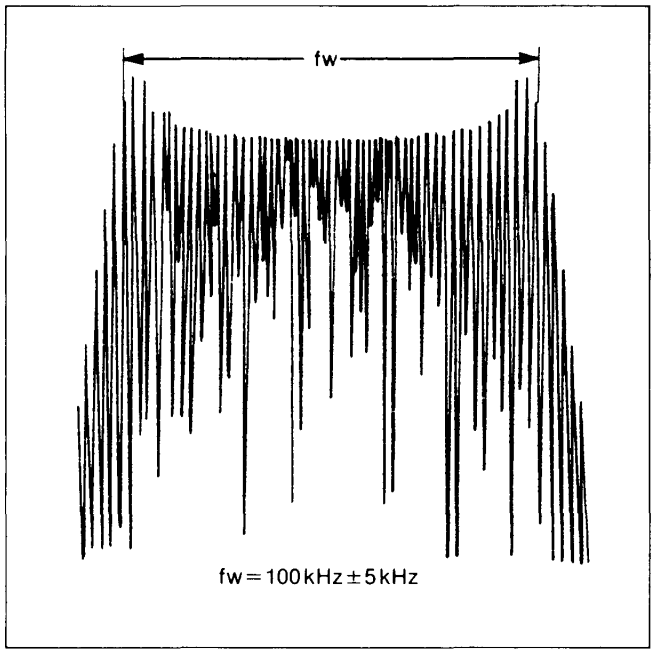


Figure E50

5-3-57. Hi-Fi AUDIO REC CURRENT ADJUSTMENT (FOR AG-7350)

TP	ADJ.	MODE	INPUT
TP5001 (HOT)	VR4706 VR4709	PAL RECORDING	NO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO- SCOPE	CH1: 80mVp-p +/- 5mV CH2: 260mVp-p +/- 5mV	

1. Make the short circuit between both Hi-Fi audio Inputs (CH1/CH2) and GND.
2. Place the unit in the recording mode.
3. Fully close VR4709 so that the CH2 recording current is cut.
4. Connect the oscilloscope to TP5001 (HOT).
5. Adjust VR4706 for 80 +/-5mVp-p as shown in Figure E51.
6. Adjust VR4709 for 270 +/-5mVp-p as shown in Figure E52.

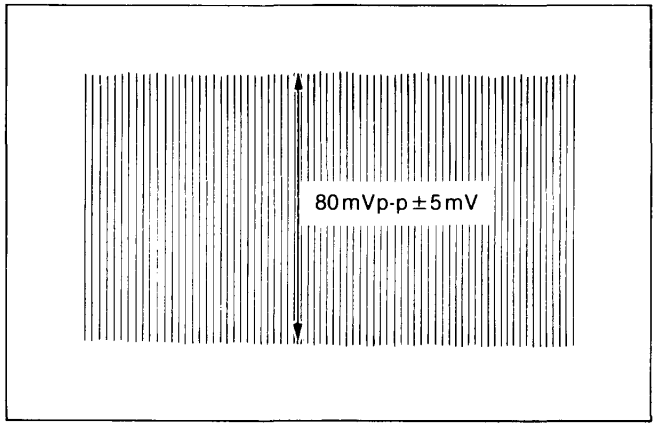


Figure E51

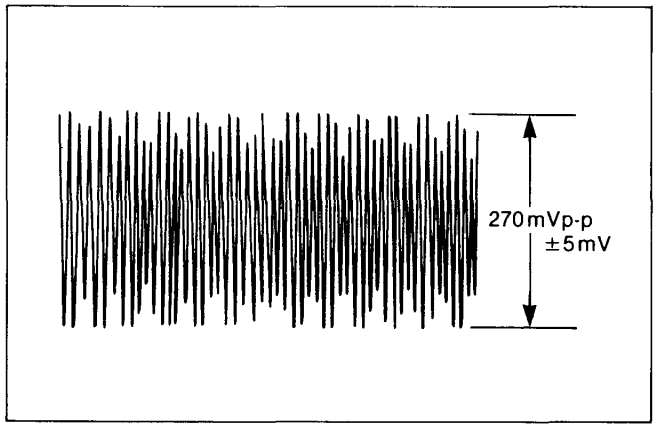


Figure E52

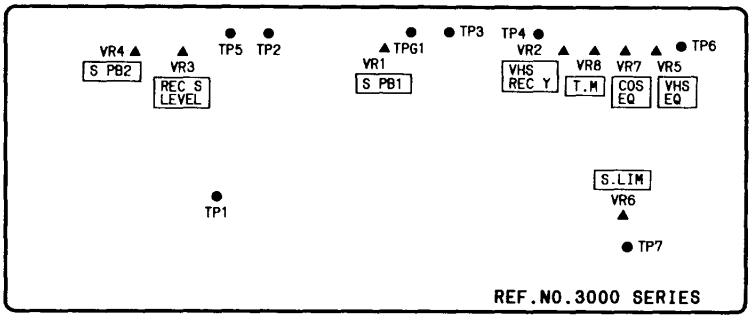
5-3-58. Hi-Fi AUDIO PLAYBACK LEVEL ADJUSTMENT (FOR AG-7150)

TP	ADJ.	MODE	INPUT
Hi-Fi AUDIO OUT (CH1/CH2)	VR4704 VR4712	PAL PLAY	
TAPE	**M. EQ.**	**SPEC.**	
-8dBv, 1kHz RECORDED TAPE	V.T.V.M	-8dBv±1	

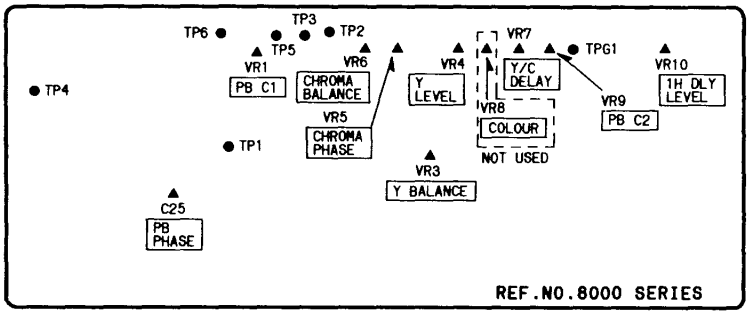
1. Prepare the prerecorded tape which recorded a audio 1kHz, -8dBv signal on another set such as AG-7350.
2. Play back the prerecorded tape.
3. Connect the V.T.V.M to Hi-Fi Audio outputs (CH1/CH2).
4. Adjust VR4704 (CH1) or VR4712 (CH2) so that the reading of V.T.V.M is -8dBv +/-1dBv.

LOCATION OF TEST POINTS & CONTROLS

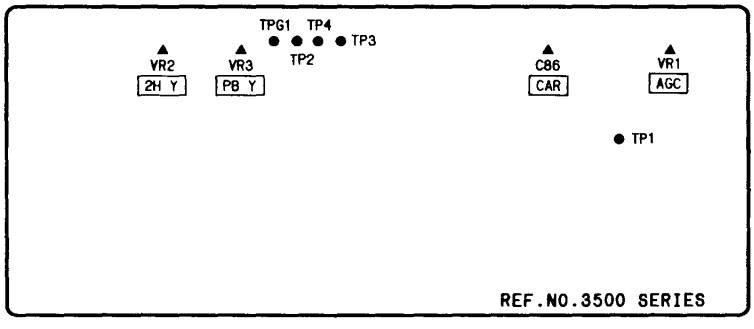
VIDEO (1) C.B.A. (VEP03877A:AG-7350/VEP03877B:AG-7150)



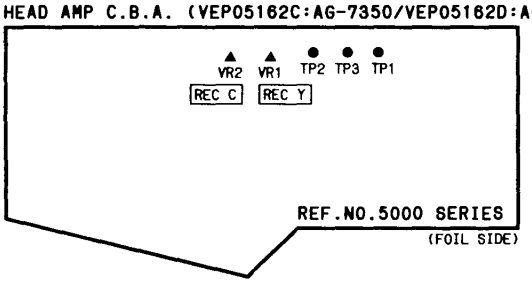
VIDEO (2) C.B.A. (VEP03878A:AG-7350/VEP03878B:AG-7150)



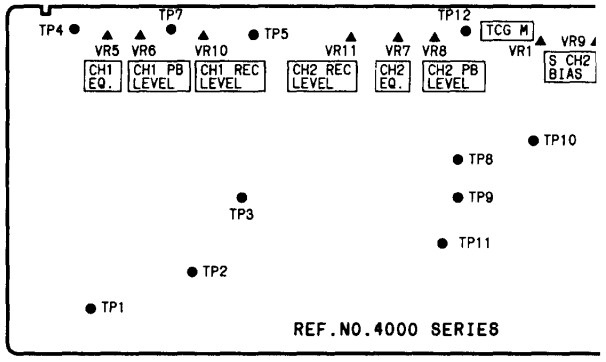
VIDEO (3) C.B.A. (VEP03879A:AG-7350/VEP03879B:AG-7150)



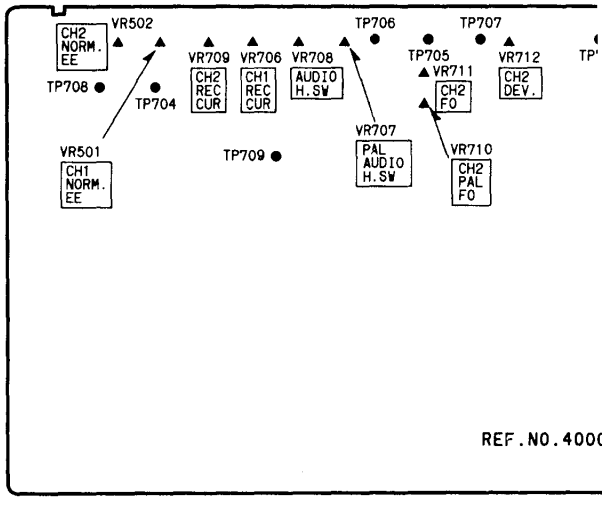
HEAD AMP C.B.A. (VEP05162C:AG-7350/VEP05162D:AG-7150)



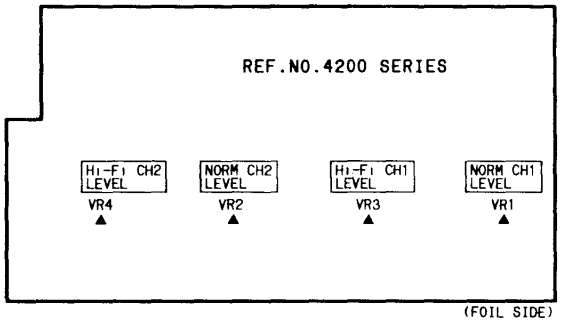
AUDIO (1) C.B.A. (VEP04326C:AG-7350/VEP04326D:AG-71



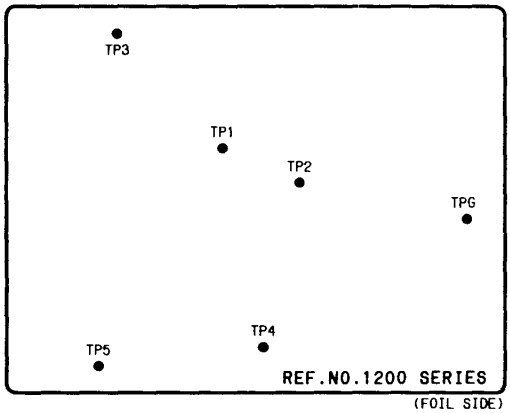
AUDIO (2) C.B.A. (VEP04327C:AG-7350/VEP04327D:AG-71

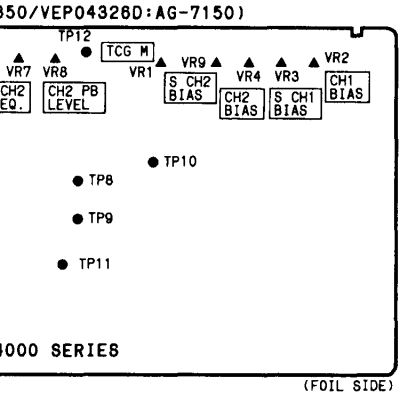


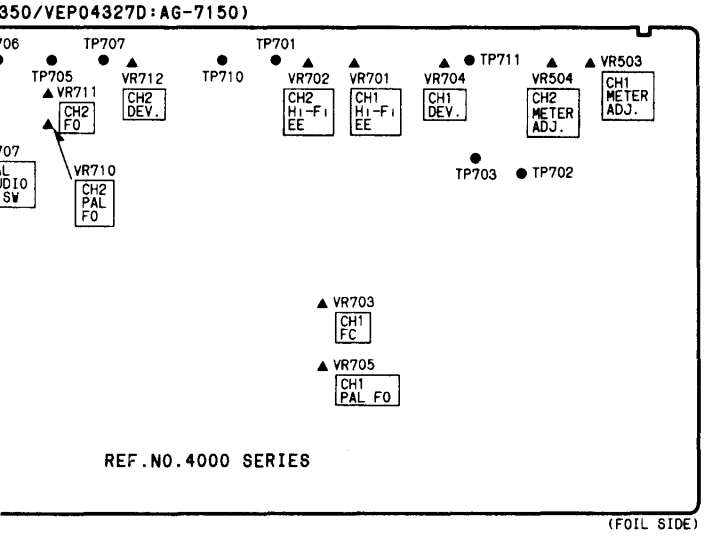
AUDIO METER C.B.A. (VEP04328A)

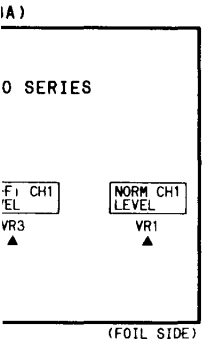


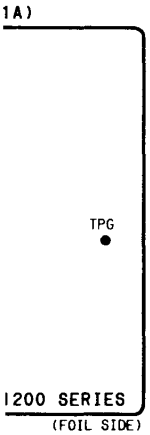
POWER DETECTION C.B.A. (VEP01471A)



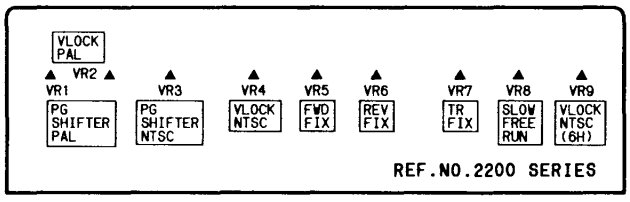




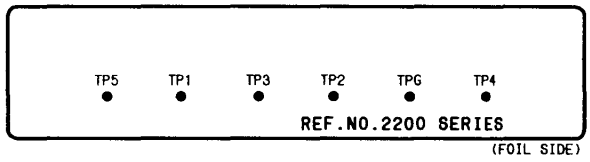




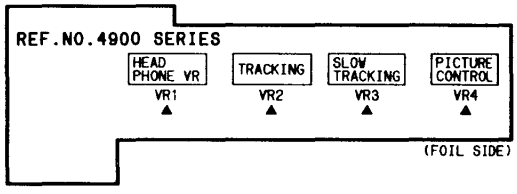
SERVO VR C.B.A. (VEP00R51B)



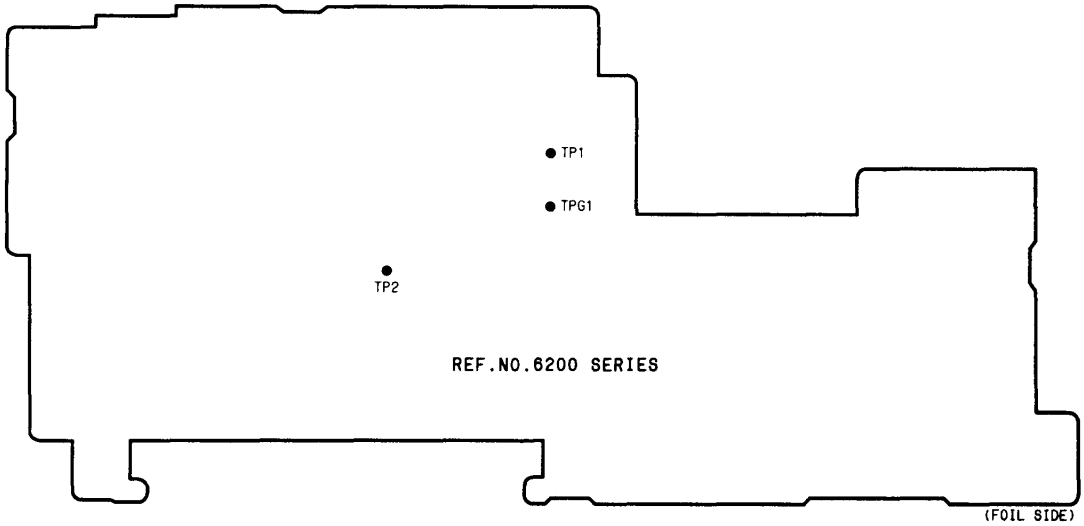
SERVO TP C.B.A.(VEP00R80A)

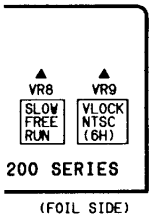


FRONT JACK C.B.A. (VEP04342A)

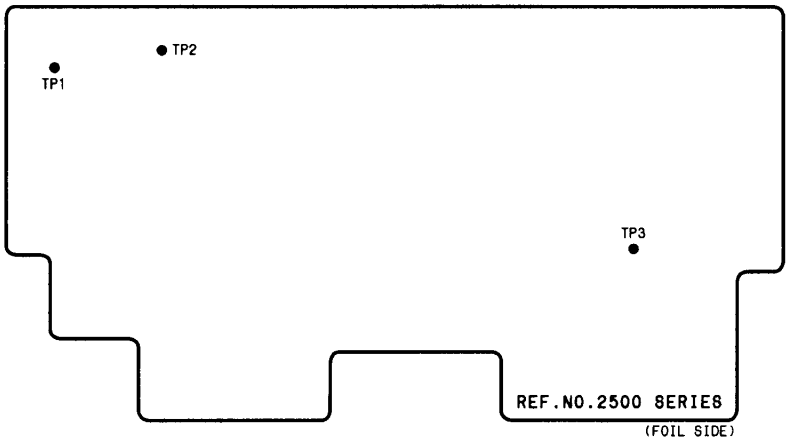


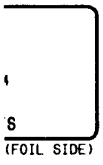
FRONT C.B.A. (VEP06749C:AG-7350/VEP06749D:AG-7150)



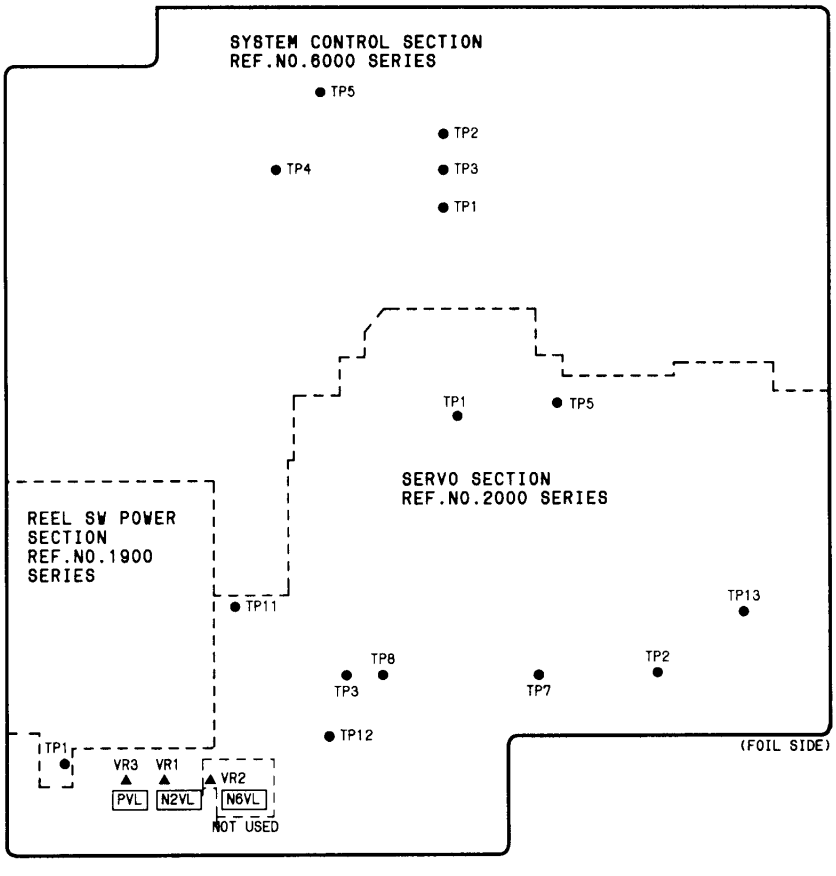


REEL SERVO C.B.A. (VEP02377A)

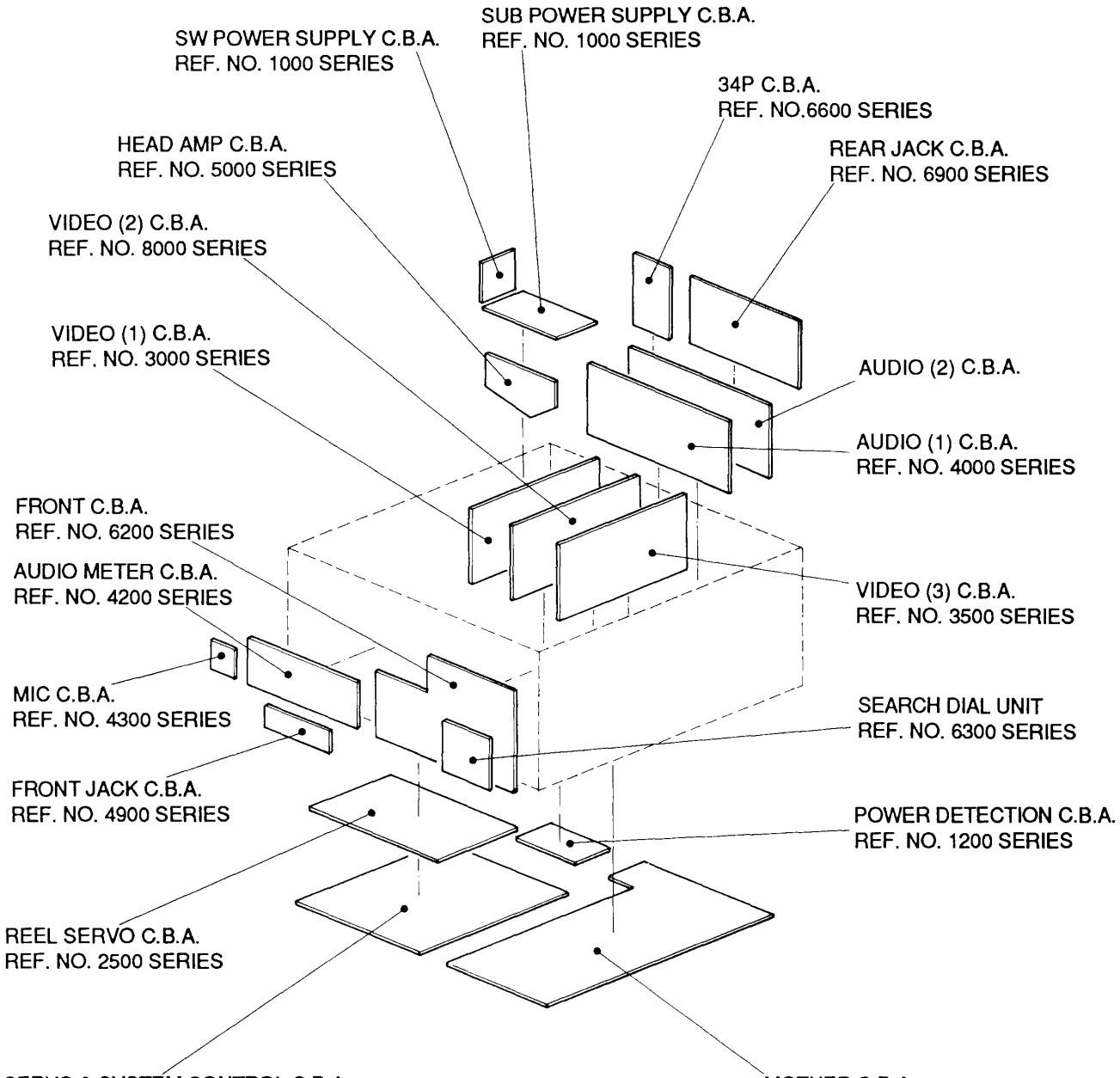




SERVO & SYSTEM CONTROL C.B.A.(VEP06729D)



CIRCUIT BOARD LAYOUT



REEL SW POWER SECTION : REF. NO. 1900 SERIES
SERVO SECTION : REF. NO. 2000 SERIES
SYSTEM CONTROL SECTION : REF. NO. 6000 SERIES

AUDIO (2) C.B.A.

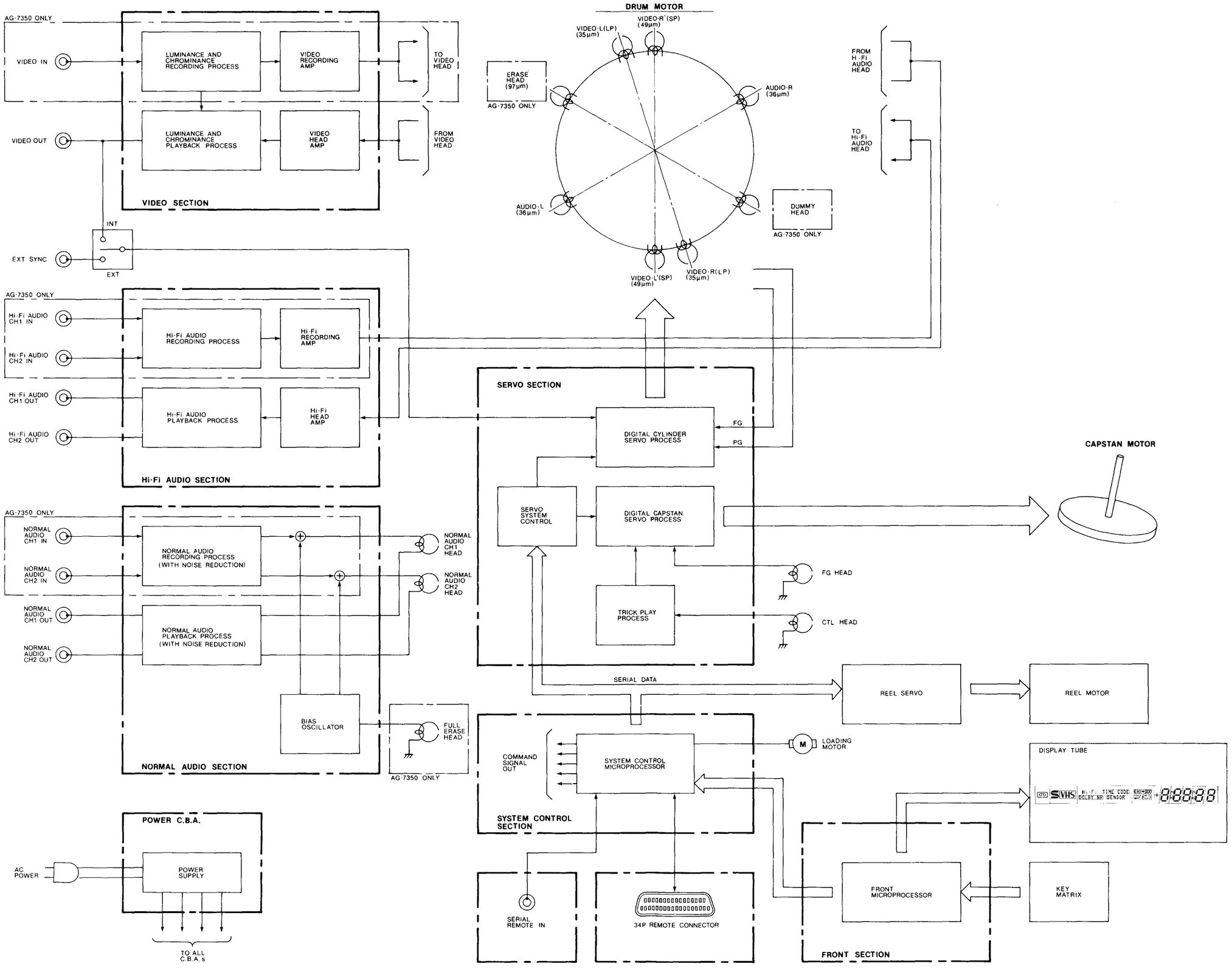
I/O SECTION : REF. NO. 4500 SERIES
Hi-Fi AUDIO SECTION : REF. NO. 4700 SERIES

Section 6

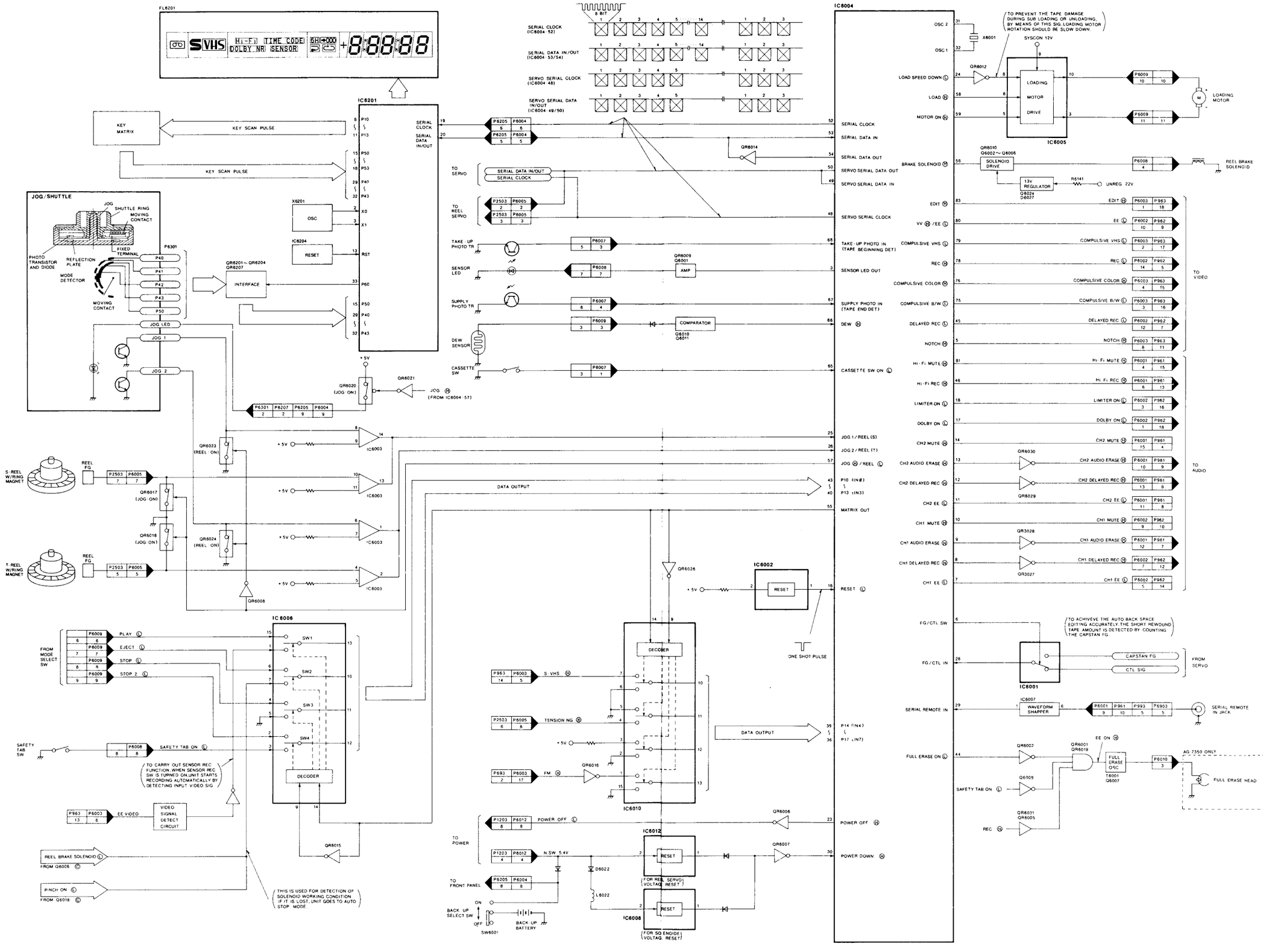
BLOCK DIAGRAMS

CONTENTS

OVERALL BLOCK DIAGRAM

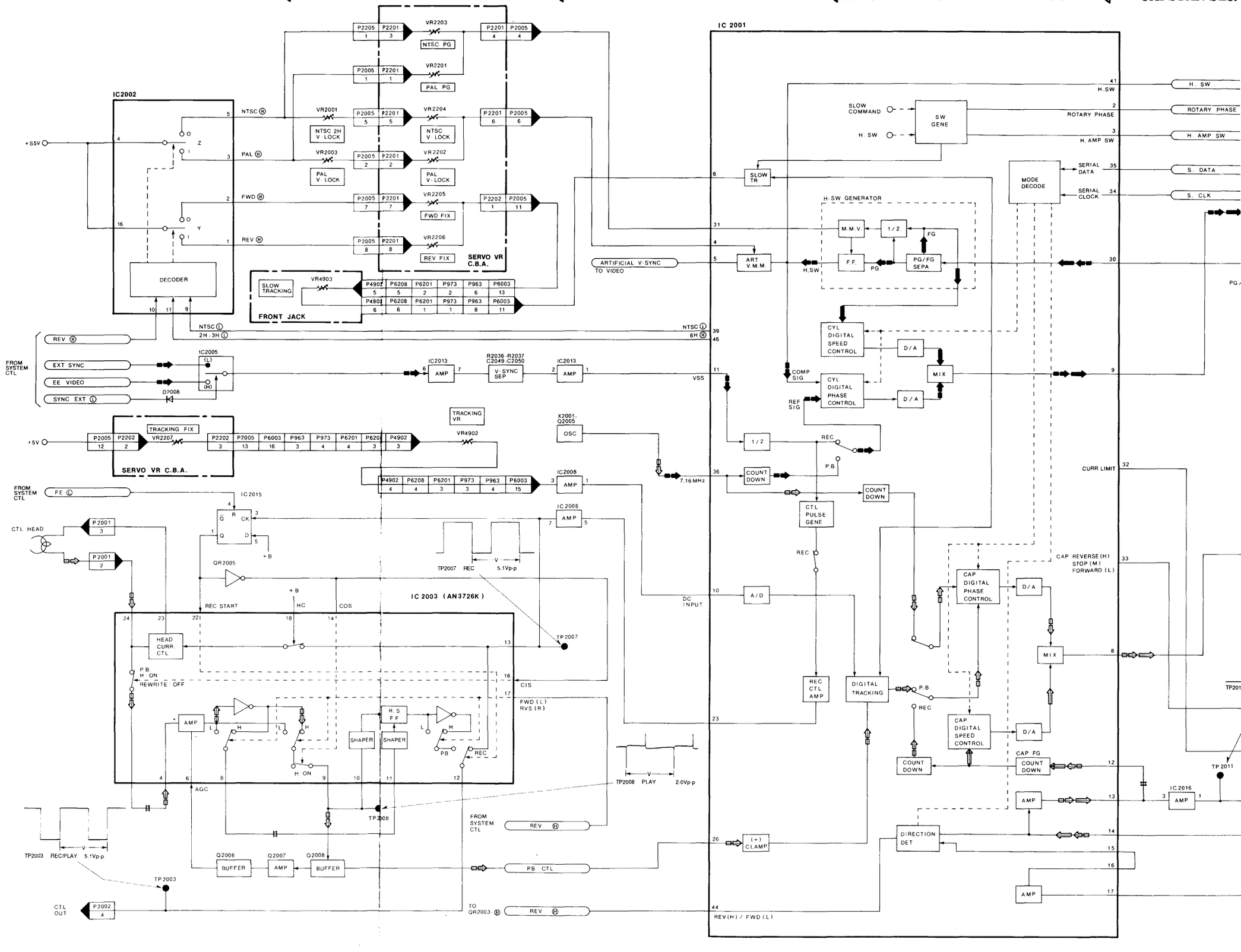


SYSTEM CONTROL BLOCK DIAGRAM



SERVO BLOCK DIAGRAM

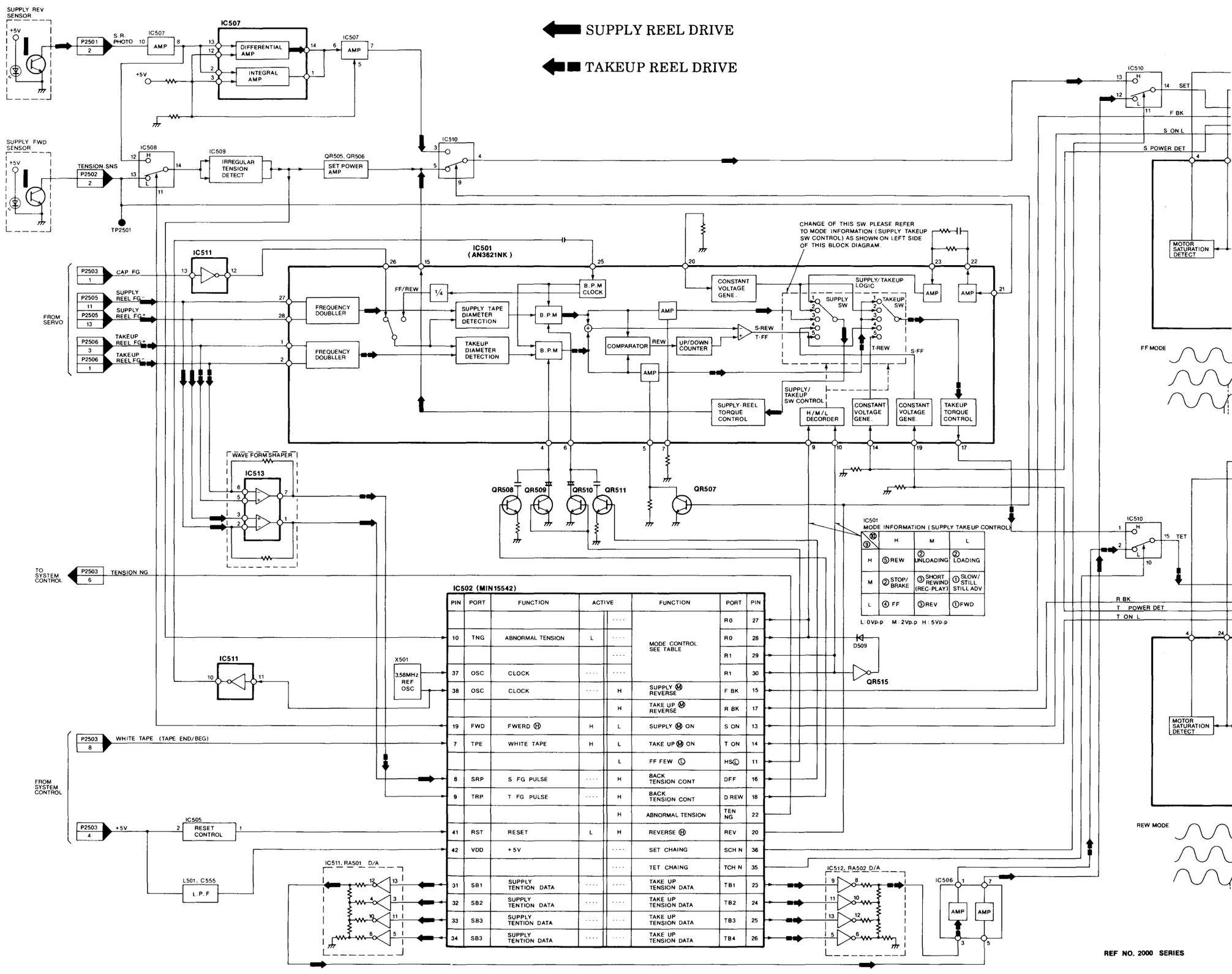
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO SPEED LOOP
CAPSTAN SER



CED LOOP ⇦▭ CAPSTAN SERVO PHASE LOOP

41 H.SW
H. SW
2 ROTARY PHASE
ROTARY PHASE
3 H. AMP SW
H. AMP SW
TO VIDEO
MODE DECODE
SERIAL DATA 35
S. DATA
SERIAL CLOCK 34
S. CLK
FROM SYSTEM CTL
30
9
PG/FG PULSE
R2088
IC 2012
(DRUM DRIVE IC)
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
IC2012·1
IC2012·2
IC2012·17
IC2012·8
IC2012·9
P2003 10
P2003 1
P2003 4
P2003 7
P2003 9
P2003 3
HALL IC
HE⁻
HE⁺
DD DRUM MOTOR
SERVO VR C.B.A.
SLOW FREE RUN
5V
VR2208
Q2010
X9
UNREG 22 V
REGULATOR
Q2001, D2010 D2013
P2004 6
P2004 4
P2004 15
IC 2005 ①③㉓
2.5 Vp-p
CURR LIMIT 32
MOTOR CURRENT IS FEED BACK TO THE TORQUE CONTROL
MOTOR DRIVE
CAP REVERSE(H) STOP (M) FORWARD (L) 33
ERROR VOLTAGE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
R2093
R2096
D/A
MIX
8
D/A
POSITION SIGNAL PROCESS
TORQUE DIRECTION
TP2011 REC/PLAY 4.6Vp-p
CAP REVERSE (H)
CAP STOP (M)
CAP FORWARD (L)
IC 2009
(CAPSTAN DRIVE IC)
P2004 7
P2004 9
P2004 10
P2004 12
P2004 11
P2004 13
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
DD CAPSTAN MOTOR
CAP FG
COUNT DOWN 12
AMP 13
IC 2016
AMP
CAP FG
TP 2011
14
15
16
AMP 17
P2004 3
P2004 5
FG 1
(90° PHASE DIFFERENCE)
FG 2
NOTE:
THIS DOES NOT HAVE FUNCTION OF RECORDING WITH 6H, BUT 6H PLAYBACK.

REEL SERVO BLOCK DIAGRAM



PIN	PORT	FUNCTION	ACTIVE		FUNCTION	PORT	PIN
					MODE CONTROL SEE TABLE	R0	27
10	TNG	ABNORMAL TENSION	L			R0	28
						R1	29
37	OSC	CLOCK				R1	30
38	OSC	CLOCK		H	SUPPLY Ⓜ REVERSE	F BK	15
				H	TAKE UP Ⓜ REVERSE	R BK	17
19	FWD	FWERD Ⓗ	H	L	SUPPLY Ⓜ ON	S ON	13
7	TPE	WHITE TAPE	H	L	TAKE UP Ⓜ ON	T ON	14
				L	FF FEW Ⓛ	HSⓁ	11
8	SRP	S FG PULSE		H	BACK TENSION CONT	DFF	16
9	TRP	T FG PULSE		H	BACK TENSION CONT	D REW	18
				H	ABNORMAL TENSION	TEN NG	22
41	RST	RESET	L	H	REVERSE Ⓗ	REV	20
42	VDD	+5V			SET CHAING	SCH N	36
					TET CHAING	TCH N	35
31	SB1	SUPPLY TENTION DATA			TAKE UP TENSION DATA	TB1	23
32	SB2	SUPPLY TENTION DATA			TAKE UP TENSION DATA	TB2	24
33	SB3	SUPPLY TENTION DATA			TAKE UP TENSION DATA	TB3	25
34	SB3	SUPPLY TENTION DATA			TAKE UP TENSION DATA	TB4	26

Ⓜ \ ⑨	H	M	L
H	⑤REW	②UNLOADING	②LOADING
M	②STOP/BRAKE	③SHORT REWIND (REC-PLAY)	①SLOW/STILL STILL ADV
L	④FF	③REV	①FWD

RAM

SUPPLY REEL DRIVE

TAKEUP REEL DRIVE

IC507 AMP

IC510

QR505, QR506 SET POWER AMP

IC501 (AN3621NK)

FF/REW 1/4

FREQUENCY DOUBLLER

FREQUENCY DOUBLLER

SUPPLY TAPE DIAMETER DETECTION

TAKEUP DIAMETER DETECTION

B.P.M

B.P.M

B.P.M CLOCK

AMP

COMPARATOR REW

UP/DOWN COUNTER

S-REW T-FF

AMP

CONSTANT VOLTAGE GENE.

CHANGE OF THIS SW. PLEASE REFER TO MODE INFORMATION (SUPPLY TAKEUP SW CONTROL) AS SHOWN ON LEFT SIDE OF THIS BLOCK DIAGRAM.

SUPPLY/TAKEUP LOGIC

SUPPLY SW

TAKEUP SW

T-REW S-FF

AMP AMP

SUPPLY/ TAKEUP SW CONTROL

SUPPLY-REEL TORQUE CONTROL

H/M/L DECORDER

CONSTANT VOLTAGE GENE.

CONSTANT VOLTAGE GENE.

TAKEUP TORQUE CONTROL

QR508 QR509 QR510 QR511 QR507

IC501 MODE INFORMATION (SUPPLY TAKEUP CONTROL)

	H	M	L
H	⑤REW	②UNLOADING	②LOADING
M	②STOP/BRAKE	③SHORT REWIND (REC-PLAY)	①SLOW/STILL STILL ADV
L	④FF	⑤REV	①FWD

L:0Vp-p M:2Vp-p H:5Vp-p

D509 QR515

X501 3.58MHz REF OSC

IC502 (MIN15542)

PIN	PORT	FUNCTION	ACTIVE		FUNCTION	PORT	PIN
				....	MODE CONTROL SEE TABLE	R0	27
10	TNG	ABNORMAL TENSION	L	....		R0	28
				....		R1	29
37	OSC	CLOCK	....	....		R1	30
38	OSC	CLOCK	....	H	SUPPLY Ⓜ REVERSE	F BK	15
				H	TAKE UP Ⓜ REVERSE	R BK	17
19	FWD	FWERD Ⓗ	H	L	SUPPLY Ⓜ ON	S ON	13
7	TPE	WHITE TAPE	H	L	TAKE UP Ⓜ ON	T ON	14
				L	FF FEW Ⓛ	HSⓁ	11
8	SRP	S FG PULSE	....	H	BACK TENSION CONT	DFF	16
9	TRP	T FG PULSE	....	H	BACK TENSION CONT	D REW	18
				H	ABNORMAL TENSION	TEN NG	22
41	RST	RESET	L	H	REVERSE Ⓗ	REV	20
42	VDD	+5V		....	SET CHAING	SCH N	36
				....	TET CHAING	TCH N	35
31	SB1	SUPPLY TENTION DATA	....	....	TAKE UP TENSION DATA	TB1	23
32	SB2	SUPPLY TENTION DATA	....	....	TAKE UP TENSION DATA	TB2	24
33	SB3	SUPPLY TENTION DATA	....	....	TAKE UP TENSION DATA	TB3	25
34	SB3	SUPPLY TENTION DATA	....	....	TAKE UP TENSION DATA	TB4	26

IC511, RA501 D/A

IC512, RA502 D/A

IC506 AMP AMP

IC510

SET

F BK

S ON L

S POWER DET

IC503 AN3834K (SUPPLY REEL MOTOR DRIVE)

MOTOR SATURATION DETECT

DIFFERENTIAL AMP

DIFFERENTIAL AMP

POSITION SIGNAL PROCESS

RIPPLE CANCELLER

TORQUE CONTROL

TORQUE DIRECTION CONTROL

M1 P2505 12

M2 P2505 8

M3 P2505 4

S POWER CTL P2507 2

S REEL POWER P2507 1

M3 (SUPPLY REEL)

FF MODE

IC8 Ⓝ 120mVp-p

IC8 Ⓢ 120mVp-p

IC8 Ⓔ 120mVp-p

H1+ P2505 9

H1− P2505 10

H2+ P2505 5

H2− P2505 6

H3+ P2505 1

H3− P2505 3

FROM SUPPLY REEL

T REEL POWER P2507 1

T POWER CTL P2507 2

TO/FROM SERVO SYSTEM CONTROL

M1 P2506 12

M2 P2506 15

M3 P2506 11

M3 (TAKEUP REEL)

IC510

TET

R BK

T POWER DET

T ON L

IC504 (TAKEUP REEL MOTOR DRIVE)

MOTOR SATURATION DETECT

DIFFERENTIAL AMP

DIFFERENTIAL AMP

POSITION SIGNAL PROCESS

RIPPLE CANCELLER

TORQUE CONTROL

TORQUE DIRECTION CONTROL

REW MODE

IC9 Ⓝ 120mVp-p

IC9 Ⓢ 120mVp-p

IC9 Ⓔ 120mVp-p

H1+ P2506 5

H1− P2506 6

H2+ P2506 8

H2− P2506 10

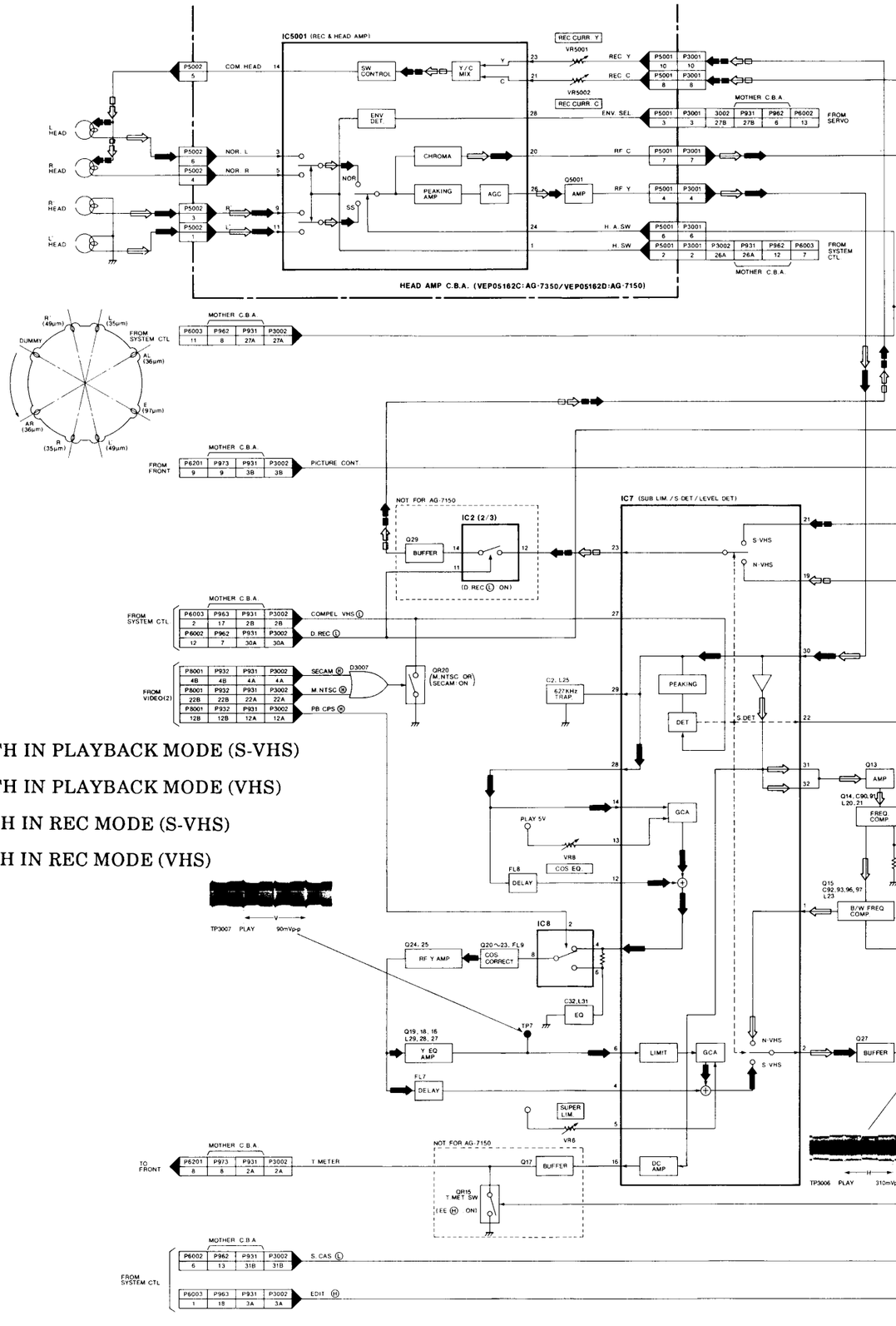
H3+ P2506 13

H3− P2506 14

FROM TAKEUP REEL

REF NO. 2000 SERIES

VIDEO (1) BLOCK DIAGRAM



- VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)
- VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
- VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)
- VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)

REC CURR Y
VR5001
REC Y
REC C
VR5002
REC CURR C
ENV SEL
RF C
RF Y
H A SW
H SW
Q5001
AMP
AGC
MOTHER C.B.A
FROM SERVO
FROM SYSTEM CTL
EP05162C:AG-7350/VEP05162D:AG-7150)

IC2 (3/3)
Q28
BUFFER
(D.REC (L) ON)
AG-7350 ONLY
REC C
FROM VIDEO(2)
RF C
TO VIDEO(2)
B/W (H)
YNR OUT
YNR OUT (NL)

TP3003 REC 1.1Vp-p

IC4(HIC) (Y REC/PB PROCESS)
LIM
NL DE NLE
CLP
MOD
MAIN EMP
SYNC SEP
PICTURE
VV
EE
AMP
DCP
CLAMP
LIM
DEMOD
L.P.F
AGC
DETAIL LNC
E-E (H)

C42,44,47,48 L13,34~36
4 STEP FREQ COMP
Q2
BUFFER
C45,46,50,51,53 L10,11
COLOR FREQ COMP
C43,54
B/W FREQ COMP
IC2 (1/3)
Q25
VR10
VHS REC Y
AG-7350 ONLY

IC1 (S-VHS/VHS SELECT)
Q1
BUFFER
FL2
S-VHS L.P.F.
FL1
VHS L.P.F.
VR1
S-PB RF
TP3005 REC/PLAY 360mVp-p
TP5

IC3 (COLOR B/W SELECT)
FL3
VHS B/W
FL5
VHS COLOR
FL4
S-VHS B/W COLOR
B/W (H)

IC5

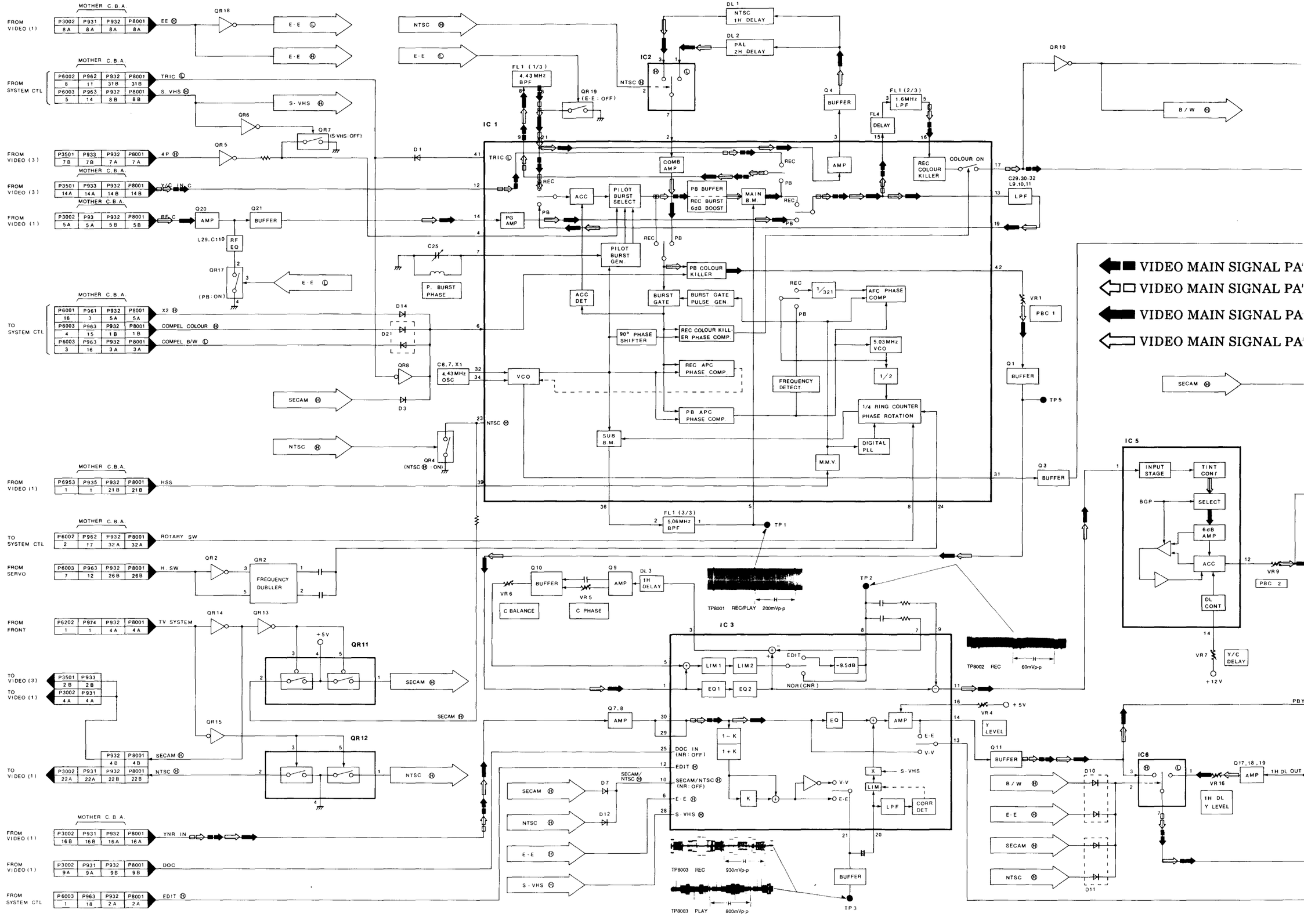
IC6 (SUB EMPHASIS)
SUB EMPHASIS
1 E-E (H)
Q8
AMP
NOT FOR AG-7150
Q11
AMP
Q7,6
AMP
Q10,9
AMP
VR4
S PB 2
VR3
S REC LEVEL
C74,73 R83,84
FREQ COMP
QR7
SW
QR11
SW
QR11
EQ
(EDIT) (OFF)
C79,80 L17,18
QR12 (INV)
EDIT (H)
YNR IN
NOT FOR AG-7150
QR17,18
REC GATE
REC (H)
FROM SYSTEM CTL

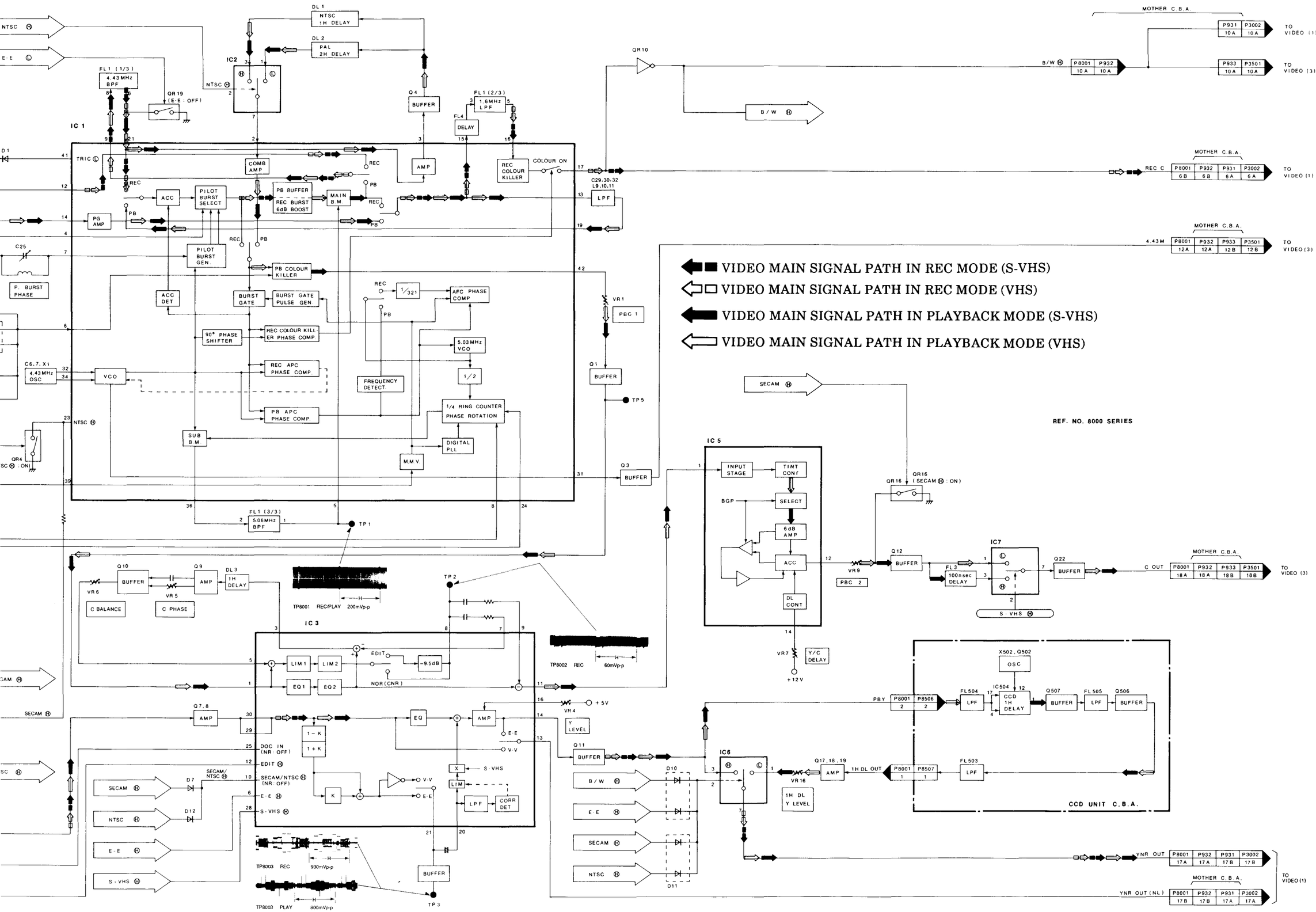
V SYNC
TO VIDEO(2)
E-E (H)
DOC
S-VHS (S)
TO SYSTEM CTL
Y OUT
E-E (H)
Y/C IN Y
FROM/TO VIDEO(3)

IC7 (SUB LIM./S.DET/LEVEL DET)
S-VHS
N-VHS
S.DET
DET
PEAKING
627KHz TRAP
C2, L25
GCA
PLAY SV
VR8
COS EQ
FL8
DELAY
IC8
20~23, FL9
COS CORRECT
C32, L31
EQ
TP7
LIMIT
GCA
SUPER LIM
VR6
Q17
BUFFER
DC AMP
Q13
AMP
Q14, C90,91 L20,21
FREQ COMP
QR14
VR5
VHS P.B 11
Q15 C92,93,96,97 L23
B/W FREQ COMP
QR13
Q27
BUFFER
TP6
TP3006 PLAY 310mVp-p

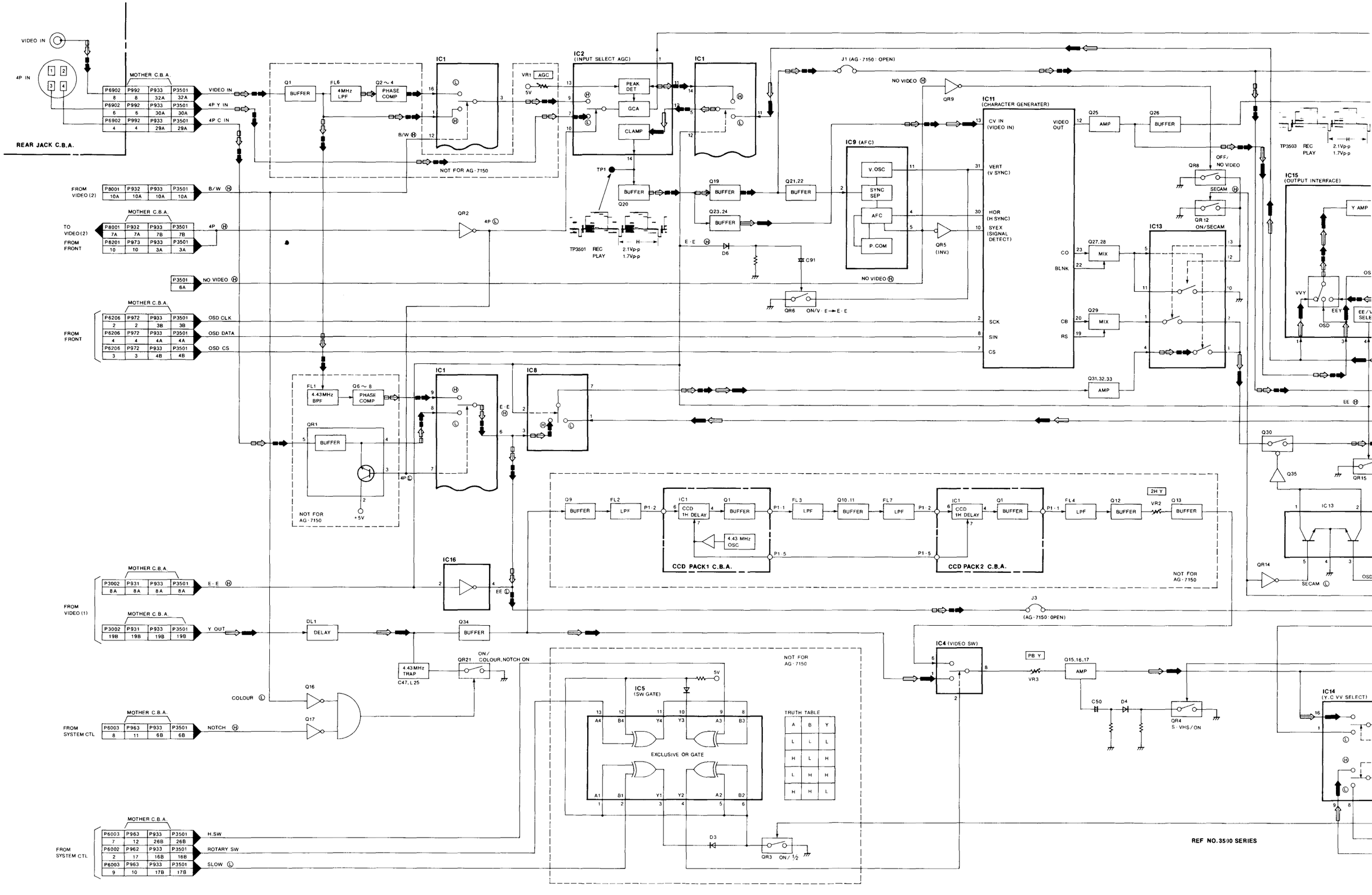
REF. NO. 3000 SERIES

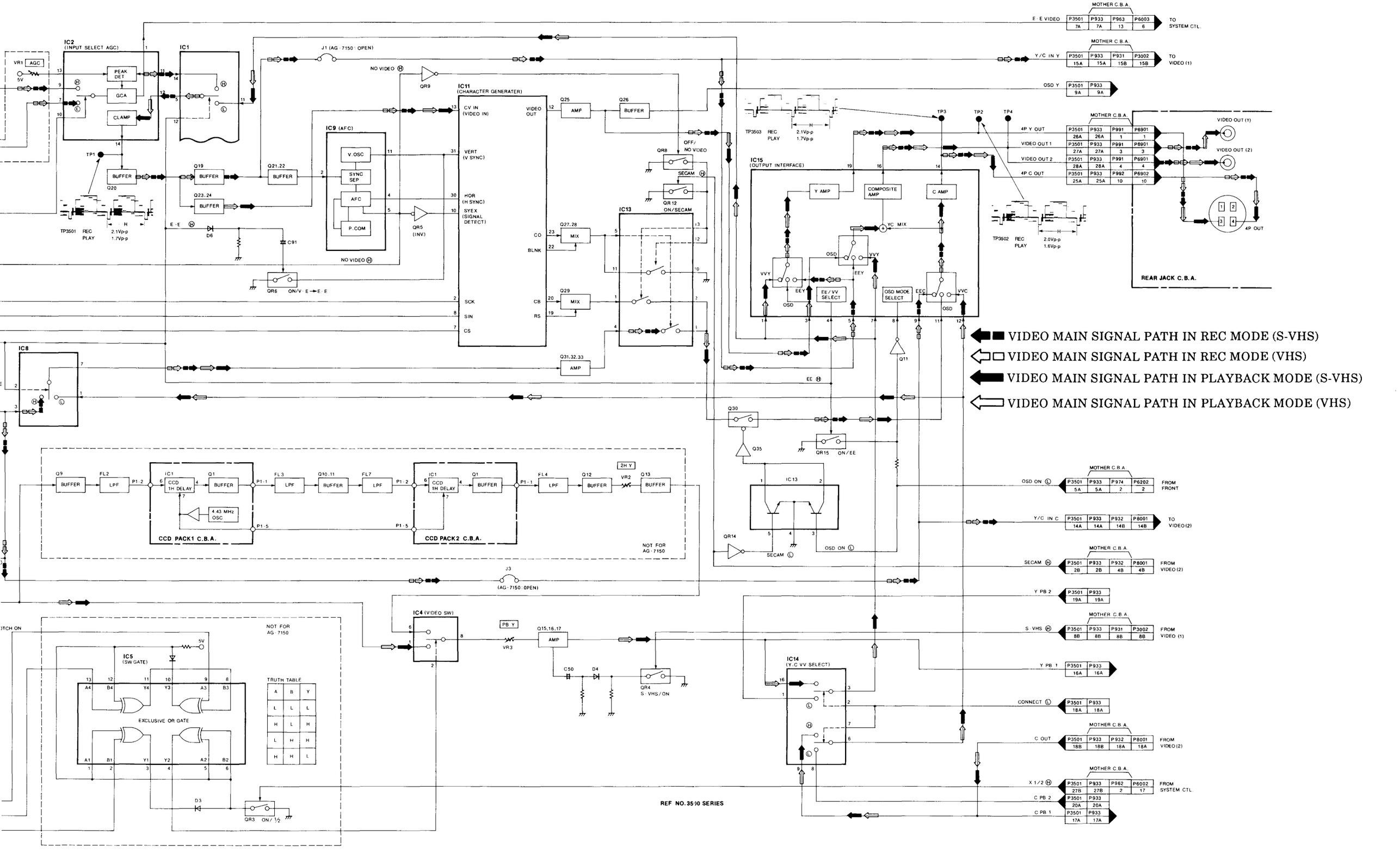
VIDEO (2) BLOCK DIAGRAM



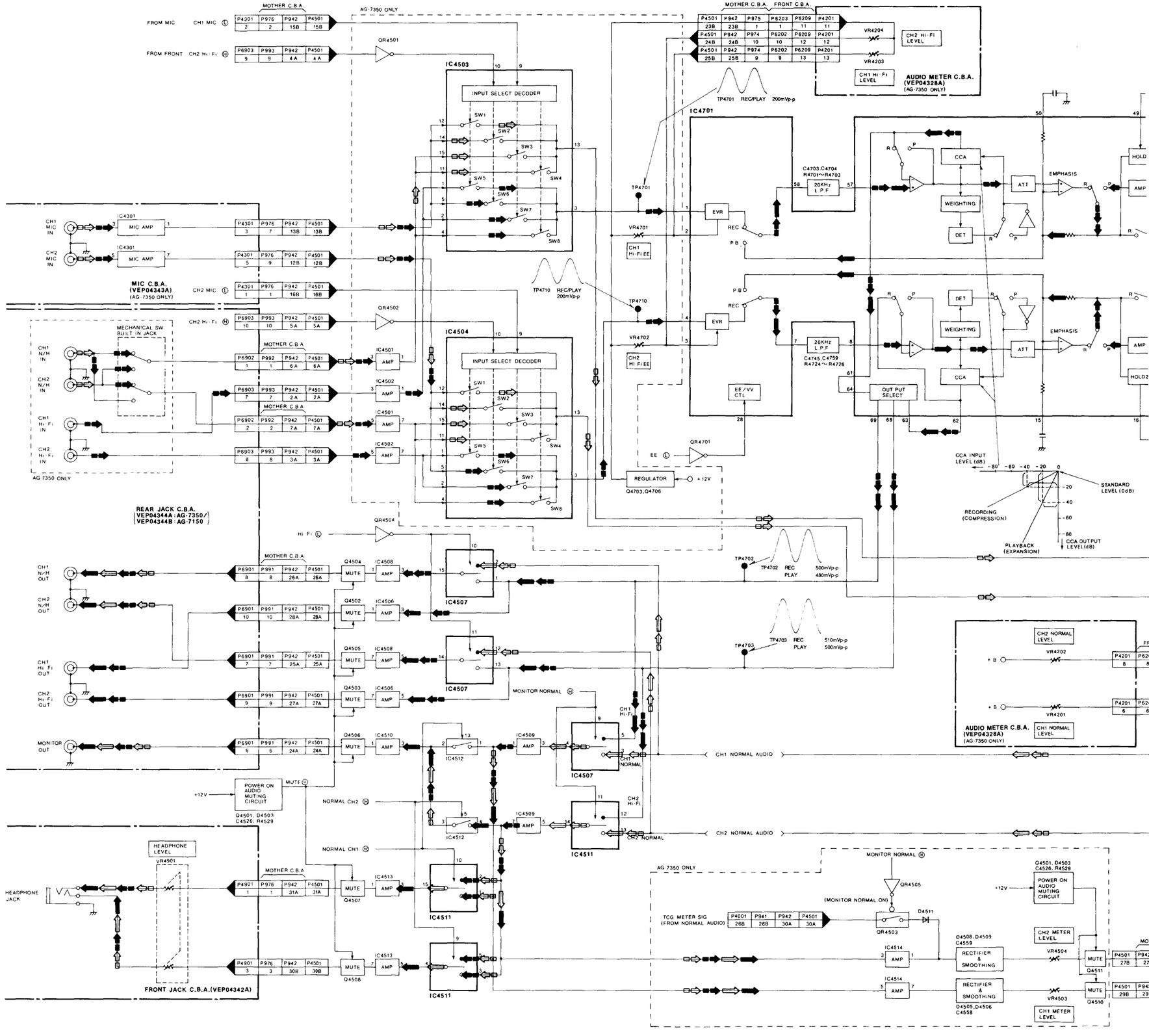

NTSC
E-E
DL 1
NTSC 1H DELAY
DL 2
PAL 2H DELAY
IC2
FL1 (1/3)
4.43MHz BPF
QR19 (E-E : OFF)
Q4
BUFFER
FL1 (2/3)
1.6MHz LPF
FL4
DELAY
IC 1
TRIC
COMB AMP
REC
PB
AMP
REC COLOUR KILLER
COLOUR ON
QR10
C29,30,32 L9,10,11
LPF
ACC
PILOT BURST SELECT
PB BUFFER
REC BURST 6dB BOOST
MAIN B.M.
PG. AMP
C25
P. BURST PHASE
PILOT BURST GEN.
PB COLOUR KILLER
ACC DET
BURST GATE
BURST GATE PULSE GEN.
1/321
AFC PHASE COMP.
90° PHASE SHIFTER
REC COLOUR KILLER PHASE COMP.
5.03MHz VCO
VR1
PBC 1
Q1
BUFFER
TP5
C6,7,X1
4.43MHz OSC
VCO
REC APC PHASE COMP.
FREQUENCY DETECT.
1/2
PB APC PHASE COMP.
1/4 RING COUNTER PHASE ROTATION
SUB B.M.
DIGITAL PLL
M.M.V.
Q3
BUFFER
FL1 (3/3)
5.06MHz BPF
TP1
QR4 (NTSC : ON)
B/W
MOTHER C.B.A.
P931 10A
P3002 10A
TO VIDEO (1)
P8001 10A
P932 10A
P933 10A
P3501 10A
TO VIDEO (3)
REC C
P8001 6B
P932 6B
P931 6A
P3002 6A
4.43M
P8001 12A
P932 12A
P933 12B
P3501 12B
VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)
VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)
SECAM
REF. NO. 8000 SERIES
IC 5
INPUT STAGE
TINT CONT
BGP
SELECT
6dB AMP
ACC
DL CONT
QR16 (SECAM : ON)
Q12
BUFFER
VR9
PBC 2
IC7
FL3
100nsec DELAY
Q22
BUFFER
C OUT
P8001 18A
P932 18A
P933 18B
P3501 18B
S-VHS
Q10
BUFFER
Q9
AMP
DL 3
1H DELAY
VR6
C BALANCE
VR5
C PHASE
TP8001 REC/PLAY 200mVp-p
TP2
IC 3
TP8002 REC 60mVp-p
LIM 1
LIM 2
EDIT
-9.5dB
EQ1
EQ2
NOR (CNR)
VR4
+5V
Y LEVEL
Q7,8
AMP
EQ
AMP
1-K
1+K
Q11
BUFFER
DOC IN (NR : OFF)
EDIT
SECAM/NTSC (NR : OFF)
E-E
S-VHS
SECAM/ NTSC
D7
D12
K
X
LIM
LPF
CORR DET
V-V
E-E
B/W
E-E
SECAM
NTSC
D10
D11
IC6
VR16
1H DL Y LEVEL
Q17,18,19
AMP
1H DL OUT
X502,Q502
OSC
PBY
P8001 2
P8506 2
FL504
LPF
IC504
CCD 1H DELAY
Q507
BUFFER
FL505
LPF
Q506
BUFFER
P8001 1
P8507 1
FL503
LPF
CCD UNIT C.B.A.
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
BUFFER
TP3
YNR OUT
P8001 17A
P932 17A
P931 17B
P3002 17B
YNR OUT (NL)
P8001 17B
P932 17B
P931 17A
P3002 17A
TO VIDEO (1)

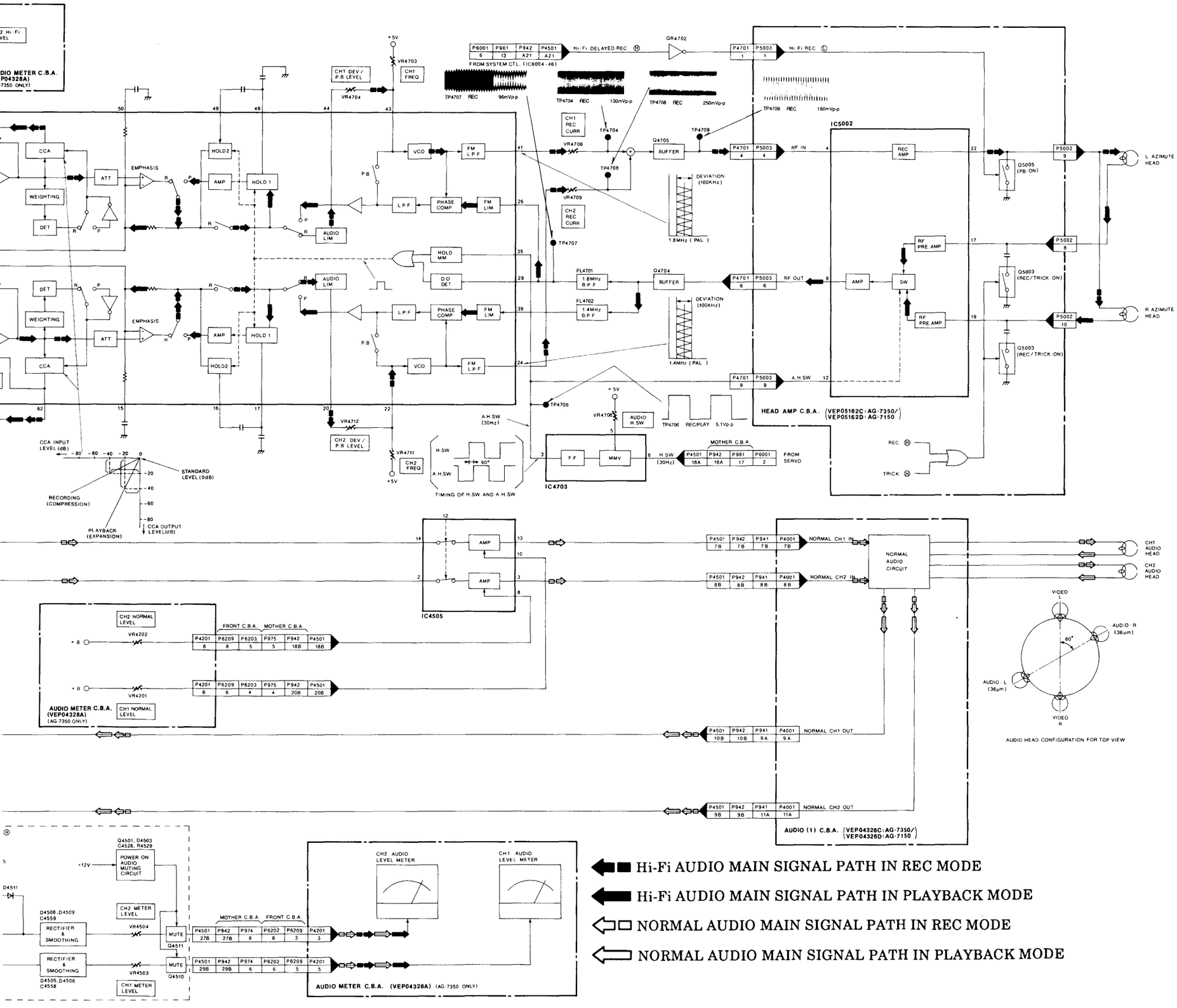
VIDEO (3) BLOCK DIAGRAM




IC2 (INPUT SELECT AGC)
VR1 AGC
5V
PEAK DET
GCA
CLAMP
IC1
J1 (AG-7150: OPEN)
NO VIDEO
QR9
IC11 (CHARACTER GENERATOR)
CV IN (VIDEO IN)
VIDEO OUT
VERT (V SYNC)
HOR (H SYNC)
SYEX (SIGNAL DETECT)
SCK
SIN
CS
CO
BLNK
CB
RS
IC9 (AFC)
V.OSC
SYNC SEP
AFC
P.COM
QR5 (INV)
Q25 AMP
Q26 BUFFER
Q27.28 MIX
Q29 MIX
Q31.32.33 AMP
TP1
BUFFER
Q20
Q19 BUFFER
Q21,22 BUFFER
Q23,24 BUFFER
TP3501 REC PLAY 2.1Vp-p 1.7Vp-p
E-E
D6
C91
QR6 ON/V-E→E-E
OFF/NO VIDEO
QR8
SECAM
QR12 ON/SECAM
IC13
TP3503 REC PLAY 2.1Vp-p 1.7Vp-p
TP3
TP2
TP4
IC15 (OUTPUT INTERFACE)
Y AMP
COMPOSITE AMP
C AMP
YC MIX
OSD
VVY
EEY
FE/VV SELECT
OSD MODE SELECT
EEC
VVC
Q11
TP3502 REC PLAY 2.0Vp-p 1.6Vp-p
REAR JACK C.B.A.
VIDEO OUT (1)
VIDEO OUT (2)
4P OUT
MOTHER C.B.A.
E-E VIDEO P3501 7A | P933 7A | P963 13 | P6003 6 → TO SYSTEM CTL.
Y/C IN Y P3501 15A | P933 15A | P931 15B | P3002 15B → TO VIDEO (1)
OSD Y P3501 9A | P933 9A
4P Y OUT P3501 26A | P933 26A | P991 1 | P6901 1
VIDEO OUT 1 P3501 27A | P933 27A | P991 3 | P6901 3
VIDEO OUT 2 P3501 28A | P933 28A | P991 4 | P6901 4
4P C OUT P3501 25A | P933 25A | P992 10 | P6902 10
EE
Q30
Q35
QR15 ON/EE
IC13
QR14
SECAM
OSD ON
OSD ON P3501 5A | P933 5A | P974 2 | P6202 2 → FROM FRONT
Y/C IN C P3501 14A | P933 14A | P932 14B | P8001 14B → TO VIDEO (2)
SECAM P3501 2B | P933 2B | P932 4B | P8001 4B → FROM VIDEO (2)
Y PB 2 P3501 19A | P933 19A
S-VHS P3501 8B | P933 8B | P931 8B | P3002 8B → FROM VIDEO (1)
Y PB 1 P3501 16A | P933 16A
CONNECT P3501 18A | P933 18A
C OUT P3501 18B | P933 18B | P932 18A | P8001 18A → FROM VIDEO (2)
X 1/2 P3501 27B | P933 27B | P962 2 | P6002 17 → FROM SYSTEM CTL.
C PB 2 P3501 20A | P933 20A
C PB 1 P3501 17A | P933 17A
IC14 (Y.C VV SELECT)
IC8
Q9 BUFFER
FL2 LPF
IC1 CCD 1H DELAY
Q1 BUFFER
FL3 LPF
Q10,11 BUFFER
FL7 LPF
IC1 CCD 1H DELAY
Q1 BUFFER
FL4 LPF
Q12 BUFFER
2H Y
VR2
Q13 BUFFER
4.43 MHz OSC
CCD PACK1 C.B.A.
CCD PACK2 C.B.A.
NOT FOR AG-7150
J3
(AG-7150: OPEN)
IC4 (VIDEO SW)
PB Y
VR3
Q15,16,17 AMP
C50
D4
QR4 S-VHS/ON
NOT FOR AG-7150
IC5 (SW GATE)
EXCLUSIVE OR GATE
TRUTH TABLE
A B Y
L L L
H L H
L H H
H H L
D3
QR3 ON/1/2
REF NO.3500 SERIES
VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)
VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

Hi-Fi AUDIO BLOCK DIAGRAM

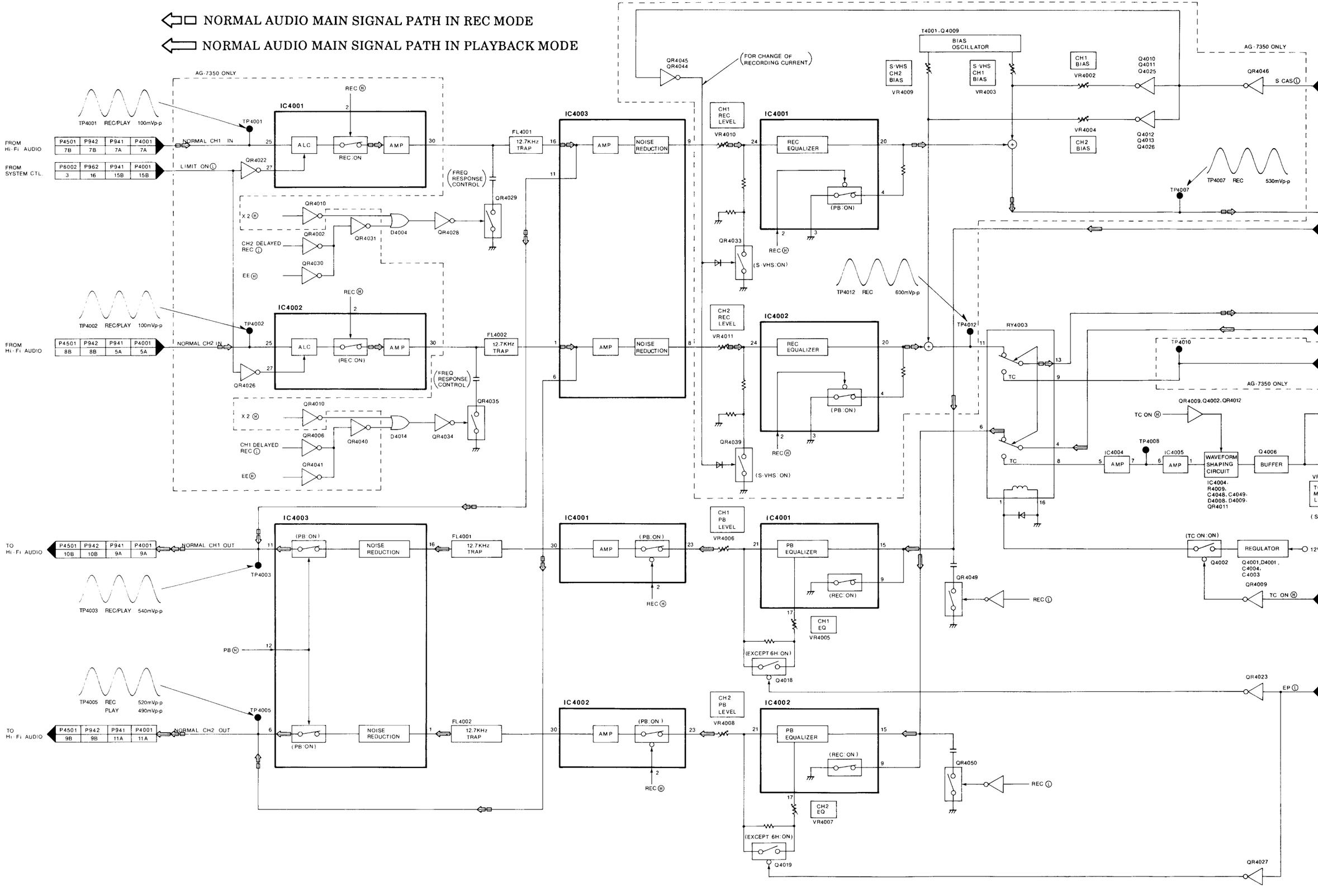


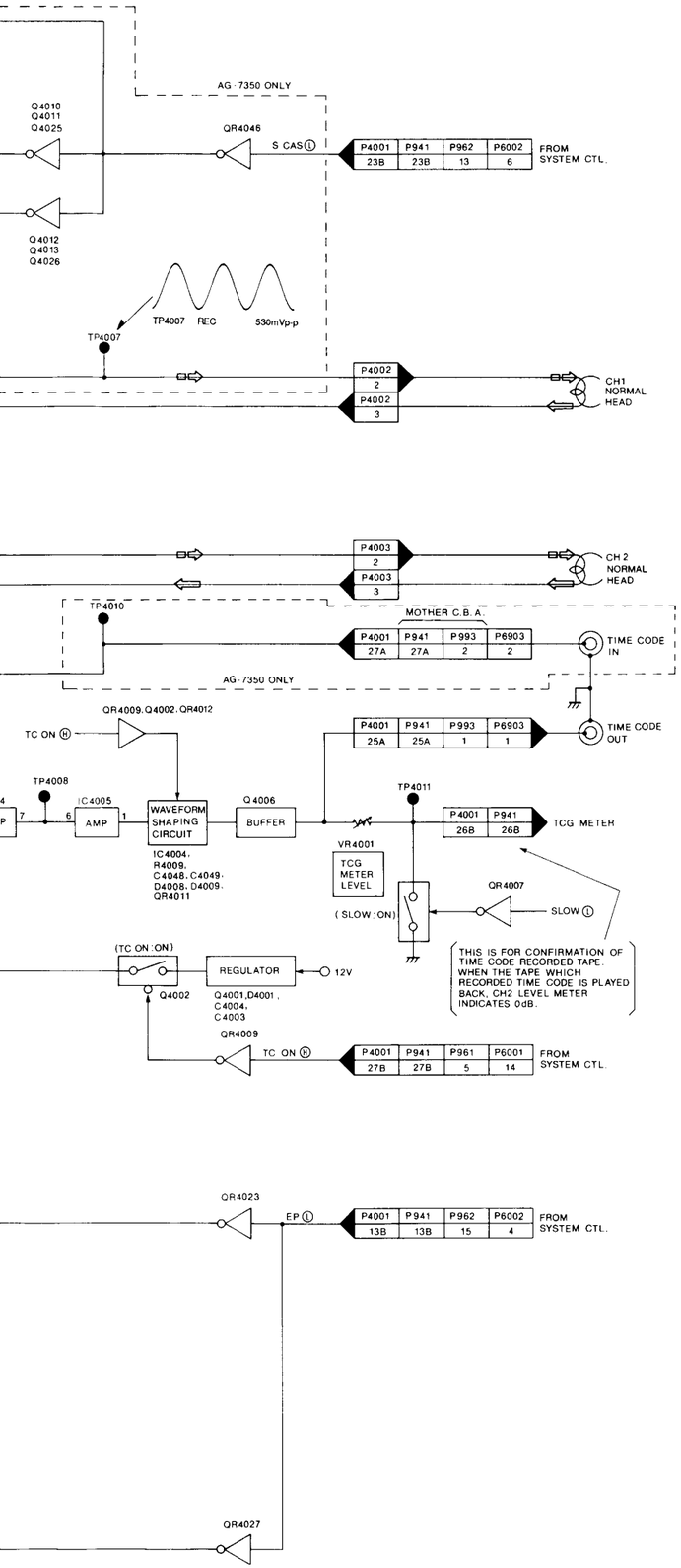

DIO METER C.B.A.
P04328A)
7350 ONLY)
+5V
VR4703
CH1 FREQ
CH1 DEV / P.B LEVEL
VR4704
P6001 | P961 | P942 | P4501
6 | 13 | A21 | A21
FROM SYSTEM CTL. (IC6004 - 46)
Hi-Fi DELAYED REC (H)
QR4702
P4701 | P5003
1 | 1
Hi-Fi REC (L)
TP4707 REC 96mVp-p
TP4704 REC 130mVp-p
TP4708 REC 250mVp-p
TP4709 REC 160mVp-p
CH1 REC CURR
CH2 REC CURR
IC5002
CCA
ATT
WEIGHTING
DET
EMPHASIS
HOLD2
AMP
HOLD 1
AUDIO LIM
VCO
FM L.P.F
L.P.F
PHASE COMP
FM LIM
P.B
HOLD MM
D.O DET
FL4701 1.8MHz B.P.F
FL4702 1.4MHz B.P.F
Q4705 BUFFER
Q4704 BUFFER
DEVIATION (100KHz)
1.8MHz (PAL)
1.4MHz (PAL)
VR4706
VR4709
TP4705
TP4706
TP4708
P4701 | P5003
4 | 4
RF IN
P4701 | P5003
6 | 6
RF OUT
P4701 | P5003
9 | 9
A.H.SW
REC AMP
RF PRE AMP
AMP
SW
Q5005 (PB ON)
Q5003 (REC/TRICK ON)
P5002 9
P5002 8
P5002 10
L AZIMUTH HEAD
R AZIMUTH HEAD
HEAD AMP C.B.A. (VEP05162C:AG-7350/ VEP05162D:AG-7150)
REC (H)
TRICK (H)
CCA INPUT LEVEL (dB)
-80 -60 -40 -20 0
-20 -40 -60 -80
STANDARD LEVEL (0dB)
RECORDING (COMPRESSION)
PLAYBACK (EXPANSION)
CCA OUTPUT LEVEL(dB)
VR4712
CH2 DEV / P.B LEVEL
VR4711
CH2 FREQ
A.H.SW (30Hz)
H.SW
A.H.SW
60°
TIMING OF H.SW AND A.H.SW
AUDIO H.SW
TP4706 REC/PLAY 5.1Vp-p
MOTHER C.B.A.
P4501 | P942 | P961 | P6001
18A | 18A | 17 | 2
H.SW (30Hz)
FROM SERVO
F.F
MMV
IC4703
12
AMP
AMP
IC4505
P4501 | P942 | P941 | P4001
7B | 7B | 7B | 7B
NORMAL CH1 IN
8B | 8B | 8B | 8B
NORMAL CH2 IN
NORMAL AUDIO CIRCUIT
CH1 AUDIO HEAD
CH2 AUDIO HEAD
VIDEO L
AUDIO - R (36μm)
60°
AUDIO - L (36μm)
VIDEO R
AUDIO HEAD CONFIGURATION FOR TOP VIEW
CH2 NORMAL LEVEL
VR4202
+B
FRONT C.B.A.
MOTHER C.B.A.
P4201 | P6209 | P6203 | P975 | P942 | P4501
8 | 8 | 5 | 5 | 18B | 18B
P4201 | P6209 | P6203 | P975 | P942 | P4501
6 | 6 | 4 | 4 | 20B | 20B
VR4201
CH1 NORMAL LEVEL
AUDIO METER C.B.A. (VEP04328A) (AG-7350 ONLY)
P4501 | P942 | P941 | P4001
10B | 10B | 9A | 9A
NORMAL CH1 OUT
P4501 | P942 | P941 | P4001
9B | 9B | 11A | 11A
NORMAL CH2 OUT
AUDIO (1) C.B.A. (VEP04326C:AG-7350/ VEP04326D:AG-7150)
Q4501, D4503 C4526, R4529
POWER ON AUDIO MUTING CIRCUIT
+12V
D4511
D4508, D4509 C4559
RECTIFIER & SMOOTHING
D4505, D4506 C4558
CH2 METER LEVEL
CH1 METER LEVEL
VR4504
VR4503
MUTE
Q4511
Q4510
MOTHER C.B.A.
FRONT C.B.A.
P4501 | P942 | P974 | P6202 | P6209 | P4201
27B | 27B | 8 | 8 | 3 | 3
P4501 | P942 | P974 | P6202 | P6209 | P4201
29B | 29B | 6 | 6 | 5 | 5
CH2 AUDIO LEVEL METER
CH1 AUDIO LEVEL METER
AUDIO METER C.B.A. (VEP04328A) (AG-7350 ONLY)
Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE
Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE
NORMAL AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

NORMAL AUDIO BLOCK DIAGRAM

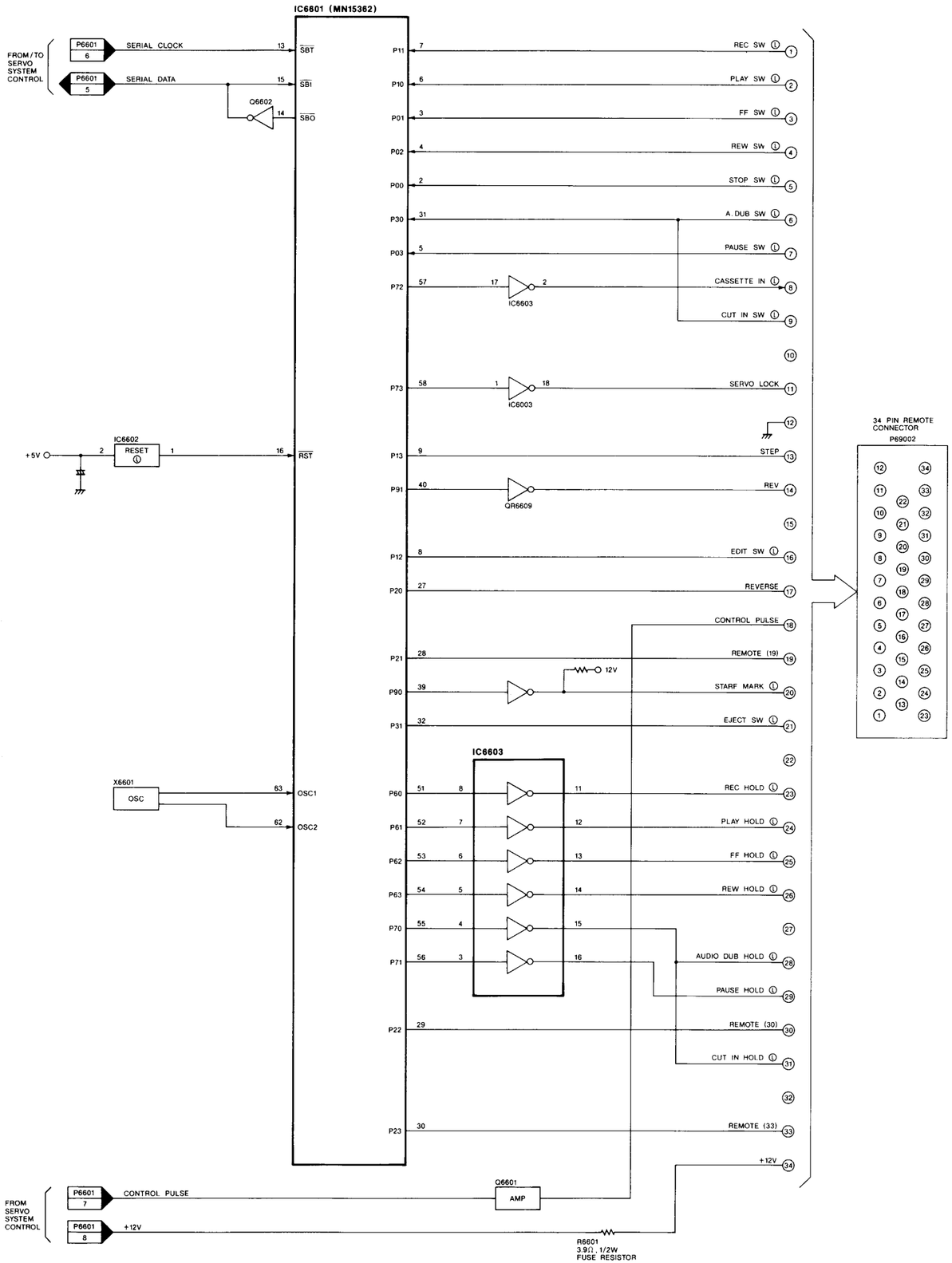
NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

NORMAL AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE





34P INTERFACE BLOCK DIAGRAM



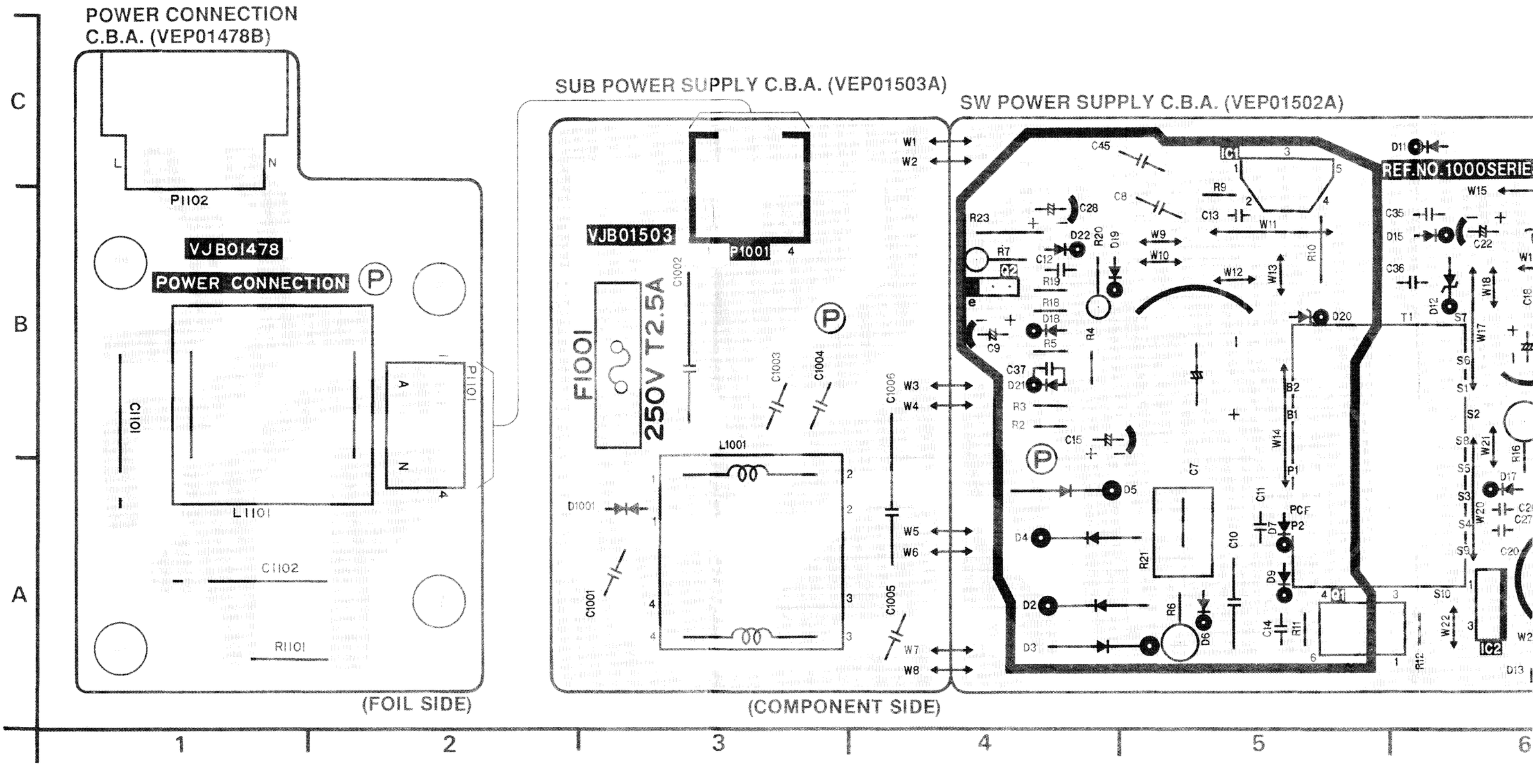
SW POWER SUPPLY C.B.A. (VEP01502A), SUB POWER SUPPLY C.B.A. (VEP01503A) AND POWER CONNECTION C.B.A. (VEP01478B)

POWER CONNECTION C.B.A.	
Connector	
P1101	B-2 Ⓕ
P1102	B-1 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

SUB POWER SUPPLY C.B.A.	
Connector	
P1101	B-3 Ⓕ

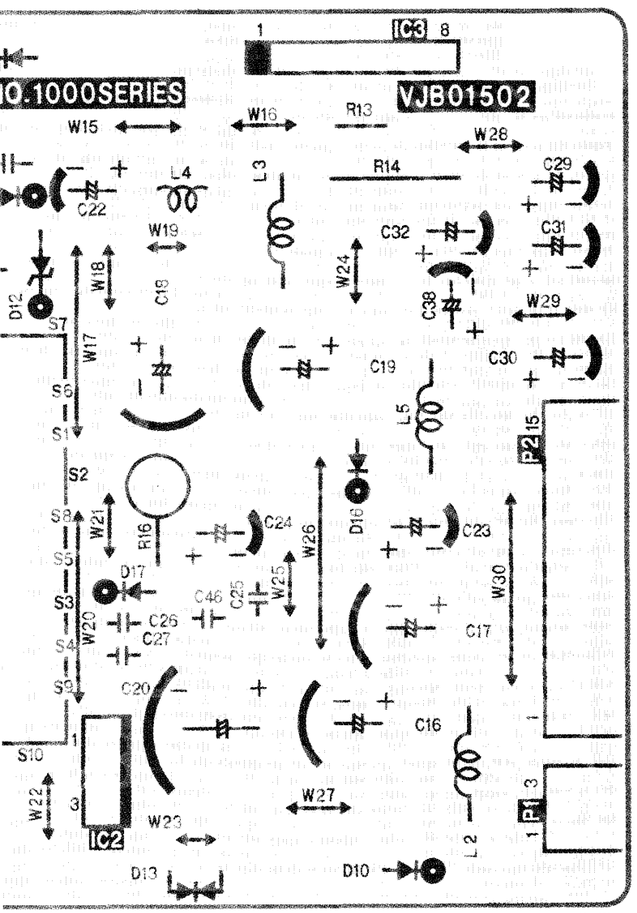
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE



B)

SW POWER SUPPLY C.B.A.	
Transistor	
Q1001	A-5 Ⓕ
Q1002	B-4 Ⓕ
Integrated Circuit	
IC1001	C-5 Ⓕ
IC1002	A-6 Ⓕ
IC1003	C-7 Ⓕ
Connector	
P1001	A-7 Ⓕ
P1002	B-7 Ⓕ

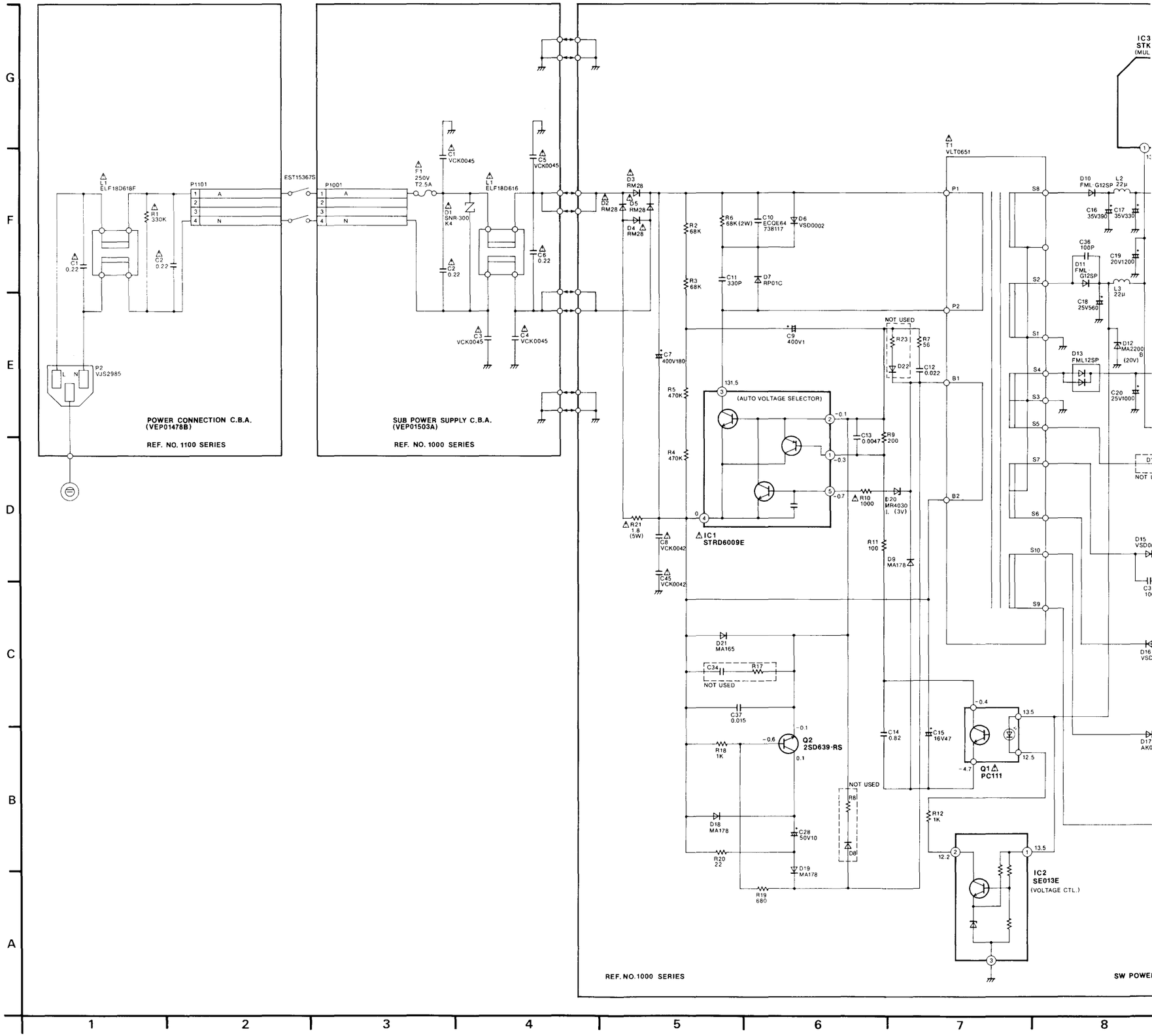
ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE



(COMPONENT SIDE)

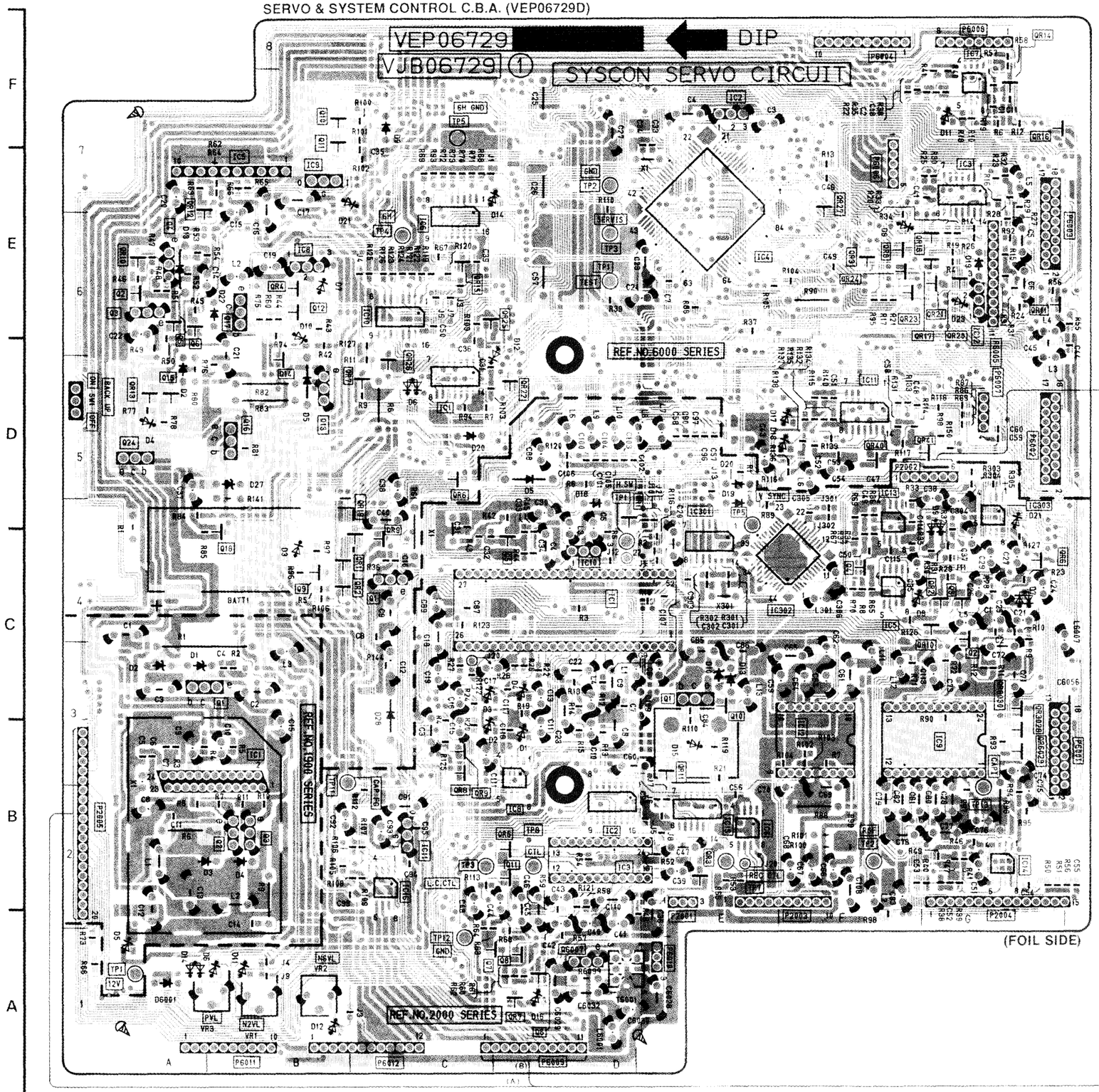
6 7

POWER SUPPLY SCHEMATIC DIAGRAM

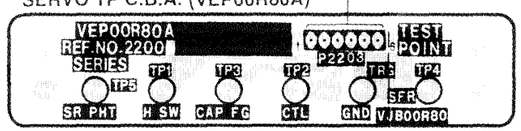


SERVO & SYSTEM CONTROL C.B.A. (VEP06729D), SERVO TP C.B.A. (VEP00R80A), SERVO VR C.B.A. (VEP00R51B) AND MOTOR BASE C.B.A. (

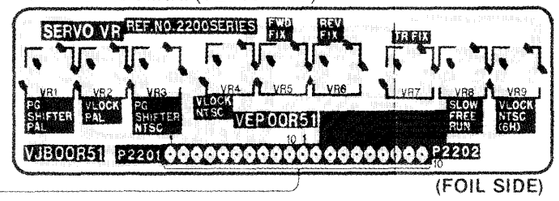
SERVO & SYSTEM CONTROL C.B.A. (VEP06729D)



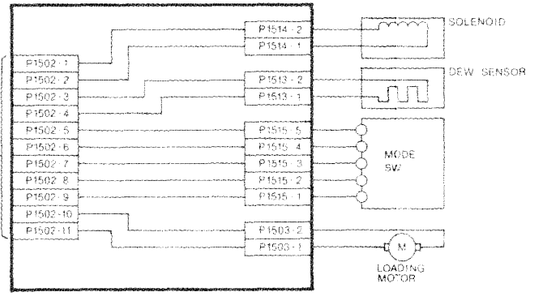
SERVO TP C.B.A. (VEP00R80A)



SERVO VR C.B.A. (VEP00R51B)



MOTOR BASE C.B.A. (VEK4163)



SERVO
Transis
Q1901
Q1902
Q1903
Q2001
Q2002
Q2003
Q2004
Q2005
Q2006
Q2007
Q2008
Q2010
Q2011
Q6001
Q6002
Q6003
Q6004
Q6005
Q6006
Q6007
Q6009
Q6010
Q6011
Q6012
Q6013
Q6014
Q6015
Q6016
Q6017
Q6018
Q6024
Transist
QR200
QR200
QR200
QR200
QR200
QR200
QR200
QR200
QR201
QR201
QR302
QR600
QR600
QR600
QR600
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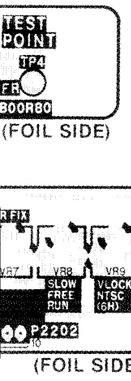
QR602
QR602
QR602
QR603
QR604
QR604
Integrate
IC1901
IC2001

ADDRESS
©...COMP
Ⓕ...FOIL

D MOTOR BASE C.B.A. (VEK4163)



SERVO & SYSTEM CONTROL C.B.A. & MOTOR BASE C.B.A.			
Transistor		IC2002	B-4 Ⓕ
Q1901	C-2 Ⓕ	IC2003	B-4 Ⓕ
Q1902	B-2 Ⓕ	IC2005	C-5 Ⓕ
Q1903	B-2 Ⓕ	IC2006	B-4 Ⓕ
Q2001	C-4 Ⓕ	IC2008	B-3 Ⓕ
Q2002	C-5 Ⓕ	IC2009	B-5 Ⓕ
Q2003	C-5 Ⓕ	IC2010	C-3 Ⓕ
Q2004	C-5 Ⓕ	IC2011	B-3 Ⓕ
Q2005	C-3 Ⓕ	IC2012	B-5 Ⓕ
Q2006	A-3 Ⓕ	IC2013	D-5 Ⓕ
Q2007	A-3 Ⓕ	IC2014	B-6 Ⓕ
Q2008	A-3 Ⓕ	IC2015	B-4 Ⓕ
Q2010	C-4 Ⓕ	IC2016	B-3 Ⓕ
Q2011	B-3 Ⓕ	IC2301	D-4 Ⓕ
Q6001	C-2 Ⓕ	IC2302	C-4 Ⓕ
Q6002	E-1 Ⓕ	IC2303	D-6 Ⓕ
Q6003	E-1 Ⓕ	IC6001	D-3 Ⓕ
Q6004	E-1 Ⓕ	IC6002	F-4 Ⓕ
Q6005	E-1 Ⓕ	IC6003	E-5 Ⓕ
Q6006	D-1 Ⓕ	IC6004	E-4 Ⓕ
Q6007	A-3 Ⓕ	IC6005	E-2 Ⓕ
Q6009	C-2 Ⓕ	IC6006	E-3 Ⓕ
Q6010	F-2 Ⓕ	IC6007	F-5 Ⓕ
Q6011	F-2 Ⓕ	IC6008	E-2 Ⓕ
Q6012	E-2 Ⓕ	IC6009	E-2 Ⓕ
Q6013	D-2 Ⓕ	IC6010	E-2 Ⓕ
Q6014	D-2 Ⓕ	IC6011	D-5 Ⓕ
Q6015	D-1 Ⓕ	IC6012	D-5 Ⓕ
Q6016	D-2 Ⓕ	**Test Point**	
Q6017	E-2 Ⓕ	TP1901	A-1 Ⓕ
Q6018	C-2 Ⓕ	TP2001	D-4 Ⓕ
Q6024	D-1 Ⓕ	TP2002	B-5 Ⓕ
Transistor & Resistor		TP2003	B-3 Ⓕ
QR2001	D-4 Ⓕ	TP2005	D-4 Ⓕ
QR2002	C-5 Ⓕ	TP2007	B-4 Ⓕ
QR2003	B-4 Ⓕ	TP2008	B-3 Ⓕ
QR2005	B-3 Ⓕ	TP2011	B-2 Ⓕ
QR2006	C-6 Ⓕ	TP2012	A-3 Ⓕ
QR2007	A-3 Ⓕ	TP2013	B-6 Ⓕ
QR2008	B-3 Ⓕ	TP6001	E-4 Ⓕ
QR2009	B-3 Ⓕ	TP6002	E-3 Ⓕ
QR2010	C-5 Ⓕ	TP6003	E-4 Ⓕ
QR2011	B-4 Ⓕ	TP6004	E-2 Ⓕ
QR3028	B-6 Ⓕ	TP6005	F-3 Ⓕ
QR6001	C-2 Ⓕ	**Adjustment**	
QR6002	C-2 Ⓕ	VR2001	A-2 Ⓕ
QR6003	E-5 Ⓕ	VR2002	A-2 Ⓕ
QR6004	E-2 Ⓕ	VR2003	A-1 Ⓕ
QR6006	D-3 Ⓕ	**Connector**	
QR6007	D-2 Ⓕ	P1502	B-7 Ⓕ
QR6008	E-5 Ⓕ	P1503	B-7 Ⓕ
QR6009	C-2 Ⓕ	P1513	B-7 Ⓕ
QR6010	E-1 Ⓕ	P1514	B-7 Ⓕ
QR6011	E-6 Ⓕ	P1515	B-7 Ⓕ
QR6012	E-1 Ⓕ	P2001	A-4 Ⓕ
QR6013	D-1 Ⓕ	P2002	D-5 Ⓕ
QR6014	F-6 Ⓕ	P2003	A-5 Ⓕ
QR6015	E-3 Ⓕ	P2004	A-6 Ⓕ
QR6016	F-6 Ⓕ	P2005	B-1 Ⓕ
QR6017	D-5 Ⓕ	P6001	B-6 Ⓕ
QR6018	E-5 Ⓕ	P6002	D-6 Ⓕ
QR6019	D-2 Ⓕ	P6003	E-6 Ⓕ
QR6020	D-5 Ⓕ	P6004	F-5 Ⓕ
QR6021	E-5 Ⓕ	P6005	D-6 Ⓕ
QR6022	D-3 Ⓕ	P6006	E-5 Ⓕ
QR6023	E-5 Ⓕ	P6007	D-6 Ⓕ
QR6024	E-5 Ⓕ	P6008	F-5 Ⓕ
QR6025	E-3 Ⓕ	P6009	A-3 Ⓕ
QR6026	D-3 Ⓕ	P6010	A-4 Ⓕ
QR6027	E-5 Ⓕ	P6011	A-2 Ⓕ
QR6029	B-6 Ⓕ	P6012	A-2 Ⓕ
QR6030	C-6 Ⓕ		
QR6040	D-5 Ⓕ		
QR6041	D-5 Ⓕ		
Integrated Circuit			
IC1901	B-2 Ⓕ		
IC2001	C-4 Ⓕ		

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

SERVO TP C.B.A.	
Test Point	
TP2201	D-7 Ⓕ
TP2202	D-7 Ⓕ
TP2203	D-7 Ⓕ
TP2204	D-7 Ⓕ
TP2205	D-7 Ⓕ
TPG	D-7 Ⓕ
Connector	
P2203	D-7 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

SERVO VR C.B.A.	
Adjustment	
VR2201	C-7 Ⓕ
VR2202	C-7 Ⓕ
VR2203	C-7 Ⓕ
VR2204	C-7 Ⓕ
VR2205	C-7 Ⓕ
VR2206	C-7 Ⓕ
VR2207	C-7 Ⓕ
VR2208	C-7 Ⓕ
VR2209	C-7 Ⓕ
Connector	
P2201	C-7 Ⓕ
P2202	C-7 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

SYSTEM CONTROL ICs DC VOLTAGE CHART

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0	0	5.1	0	5.1	5.1	0	0.1	0	5.1	0.2	5.1	5.1	5.1						
REC	0	0	5.1	4.8	5.1	5.1	0	2.3	0	5.1	4.8	5.1	5.1	5.1						
F.F.	0	0	5.1	2.1	5.1	3.0	0	0.1	0	5.1	2.1	3.0	5.1	5.1						
REF. NO.	IC6002																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F.	5.0	5.0	0																	
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	4.7	4.7	5.1	0	2.6	0	2.6	0	2.0	5.0	2.1	0	0	0						
REC	4.7	4.7	5.1	5.0	2.6	0	2.6	0	2.6	5.0	2.4	0	4.7	4.7						
F.F.	2.6	2.6	5.1	2.6	2.3	0	2.3	0	2.3	2.8	2.3	0	2.5	2.5						
REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	0
REC	0	5.0	4.7	0	4.9	0	0	5.0	5.0	0	0	5.0	5.0	0	0	5.0	5.0	5.0	0	0
F.F.	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	5.1
REF. NO.	IC6004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.8	0	0	4.7	4.7	4.4	5.0	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
REC	0	2.8	0	0	4.7	4.7	4.4	4.7	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
F.F.	0	0	0	0	2.5	2.5	4.4	2.3	0.1	0.1	—	—	0	2.2	2.3	4.5	5.1	4.9	4.8	1.3
REF. NO.	IC6004																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.3	5.1	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REC	1.3	5.1	5.1	0	0	5.0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
F.F.	1.3	4.9	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REF. NO.	IC6004																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0	0	5.0	0
REC	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	5.0	5.0	0
F.F.	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	0	5.0	0
REF. NO.	IC6004																			
MODE	81	82	83	84																
STOP	0	0	0.6	0																
REC	0	0	0.6	0																
F.F.	0	0	0.6	0																
REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10										
STOP	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
REC	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
F.F.	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
REF. NO.	IC6006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1				
REC	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1				
F.F.	0.1	5.1	0.5	0	5.0	5.1	5.1	0	1.3	5.1	4.9	1.3	1.3	4.5	5.1	5.1				

REF. NO.	IC6007								IC6008											
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0							
REC	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0							
F.F.	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			5.3	5.3	0							
REF. NO.	IC6009																			
MODE	I	G	O																	
STOP	13.5	0	12.0																	
REC	13.5	0	12.0																	
F.F.	13.5	0	12.0																	
REF. NO.	IC6010																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1				
REC	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1				
F.F.	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	6.1	4.9	4.8	0	5.1				
REF. NO.	IC6011																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
REC	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
F.F.	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
REF. NO.	IC6012																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F.	5.0	5.0	0																	

SYSTEM CONTR

REF. NO.	Q6001		
MODE	E	C	B
STOP	0.7	11.6	0.6
REC	0.7	11.6	0.6
F.F.	0.7	11.6	0.6
REF. NO.	Q6007		
MODE	E	C	B
STOP	0	0.2	0.2
REC	0	11.5	−0.4
F.F.	0	0.2	0.2
REF. NO.	Q6014		
MODE	E	C	B
STOP	0	0	0.8
REC	0	0	0.8
F.F.	0	12.6	0
REF. NO.	QR6001		
MODE	E	C	B
STOP	0	12.3	0
REC	0	0.1	2.7
F.F.	0	12.3	0
REF. NO.	QR6008		
MODE	E	C	B
STOP	5.1	5.1	0
REC	5.1	5.1	0
F.F.	5.1	5.1	0
REF. NO.	QR6014		
MODE	E	C	B
STOP	0	4.8	0. 7
REC	0	4.8	0.7
F.F.	0	4.8	0.7
REF. NO.	QR6020		
MODE	E	C	B
STOP	5.1	0	5.1
REC	5.1	0	5.1
F.F.	5.1	0	5.1
REF. NO.	QR6026		
MODE	E	C	B
STOP	0	1.3	4.8
REC	0	1.3	4.8
F.F.	0	1.3	4.8
REF. NO.	QR6041		
MODE	E	C	B
STOP	5.1	1.6	5.1
REC	5.1	1.6	5.1
F.F.	5.1	1.6	5.1

B.A.

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NT SIDE

B.A.

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RMATION
NT SIDE

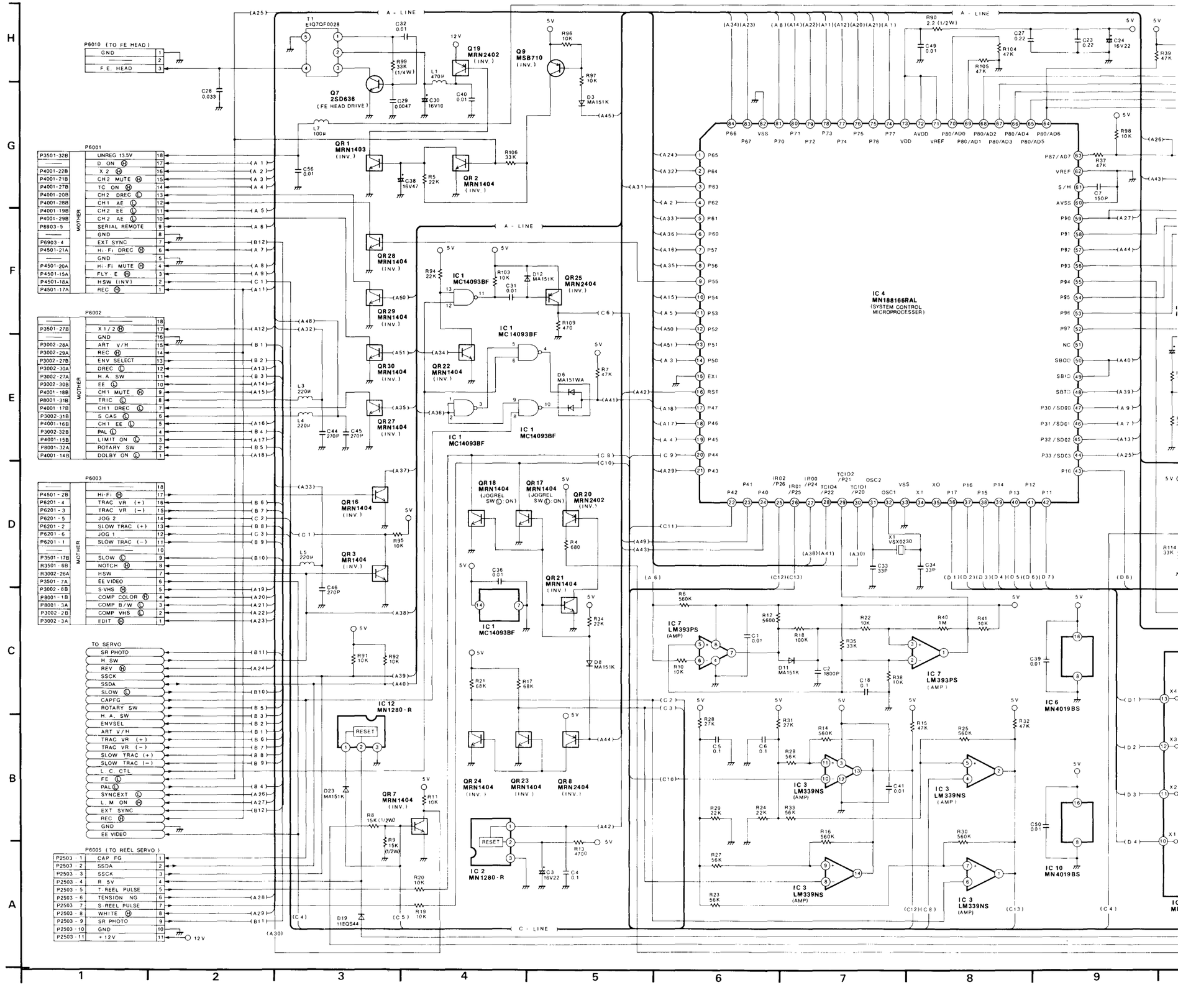
SYSTEM CONTROL ICs DC VOLTAGE CHART

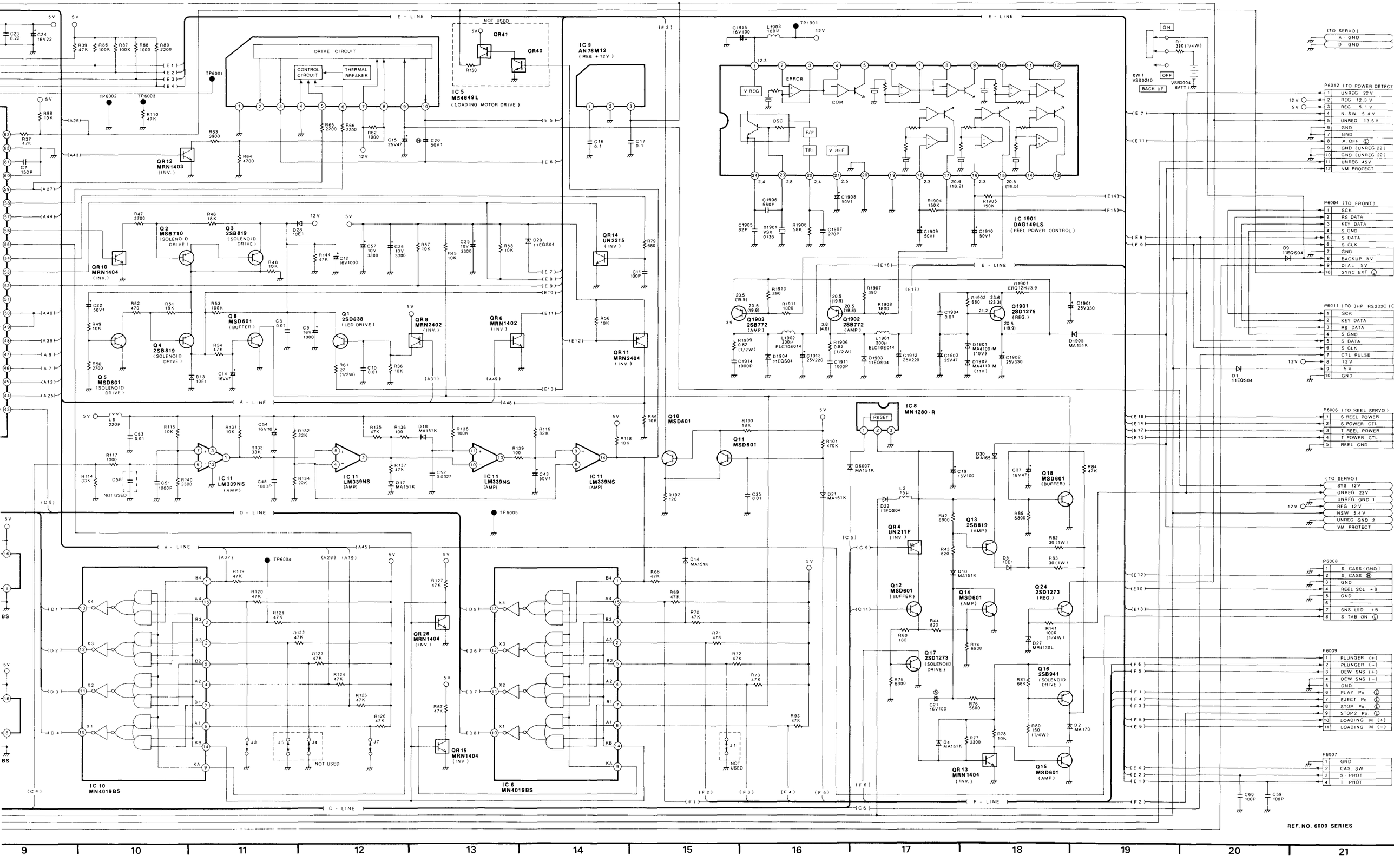
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0	0	5.1	0	5.1	5.1	0	0.1	0	5.1	0.2	5.1	5.1	5.1						
REC	0	0	5.1	4.8	5.1	5.1	0	2.3	0	5.1	4.8	5.1	5.1	5.1						
F.F.	0	0	5.1	2.1	5.1	3.0	0	0.1	0	5.1	2.1	3.0	5.1	5.1						
REF. NO.	IC6002																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F.	5.0	5.0	0																	
REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	4.7	4.7	5.1	0	2.6	0	2.6	0	2.0	5.0	2.1	0	0	0						
REC	4.7	4.7	5.1	5.0	2.6	0	2.6	0	2.6	5.0	2.4	0	4.7	4.7						
F.F.	2.6	2.6	5.1	2.6	2.3	0	2.3	0	2.3	2.8	2.3	0	2.5	2.5						
REF. NO.	IC6004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	0
REC	0	5.0	4.7	0	4.9	0	0	5.0	5.0	0	0	5.0	5.0	0	0	5.0	5.0	5.0	0	0
F.F.	0	5.0	4.7	0	4.9	0	0	0	0	0	0	0	0	0	0	5.0	5.0	5.0	0	5.1
REF. NO.	IC6004																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.8	0	0	4.7	4.7	4.4	5.0	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
REC	0	2.8	0	0	4.7	4.7	4.4	4.7	0.1	0.1	—	—	0	2.2	2.3	4.9	5.1	4.9	4.8	0
F.F.	0	0	0	0	2.5	2.5	4.4	2.3	0.1	0.1	—	—	0	2.2	2.3	4.5	5.1	4.9	4.8	1.3
REF. NO.	IC6004																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.3	5.1	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REC	1.3	5.1	5.1	0	0	5.0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
F.F.	1.3	4.9	5.1	5.0	5.0	0	0	4.6	4.6	4.6	0	4.9	4.8	0.7	4.5	0	0	0	0	0
REF. NO.	IC6004																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	5.0	0	0	5.0	0
REC	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	5.0	5.0	0
F.F.	0.5	0	1.6	5.1	2.5	0.6	5.0	5.0	0	0	5.0	5.0	5.0	0	5.0	0	0	0	5.0	0
REF. NO.	IC6004																			
MODE	81	82	83	84																
STOP	0	0	0.6	0																
REC	0	0	0.6	0																
F.F.	0	0	0.6	0																
REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10										
STOP	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
REC	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
F.F.	0	0.2	0.2	0	0	0	12.3	10.1	12.0	0.2										
REF. NO.	IC6006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1				
REC	0.1	5.1	0.5	5.1	5.0	5.1	5.1	0	1.3	5.1	5.1	1.3	0	4.5	0	5.1				
F.F.	0.1	5.1	0.5	0	5.0	5.1	5.1	0	1.3	5.1	4.9	1.3	1.3	4.5	5.1	5.1				
REF. NO.	IC6007										IC6008									
MODE	1	2	3	4	5	6	7	8			1	2	3							
STOP	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0							
REC	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			4.8	4.8	0							
F.F.	0.1	1.2	0.1	0	1.2	4.8	0.1	5.1			5.3	5.3	0							
REF. NO.	IC6009																			
MODE	I	G	O																	
STOP	13.5	0	12.0																	
REC	13.5	0	12.0																	
F.F.	13.5	0	12.0																	
REF. NO.	IC6010																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1				
REC	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	5.1	4.9	4.8	0	5.1				
F.F.	5.0	5.0	5.0	0.9	5.0	0	5.1	0	1.3	4.9	4.9	6.1	4.9	4.8	0	5.1				
REF. NO.	IC6011																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
STOP	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
REC	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
F.F.	0.3	0.1	5.0	2.5	0.5	2.3	1.2	2.5	1.2	0	0.5	0	1.2	0.1						
REF. NO.	IC6012																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F.	5.0	5.0	0																	

SYSTEM CONTROL TRs DC VOLTAGE CHART

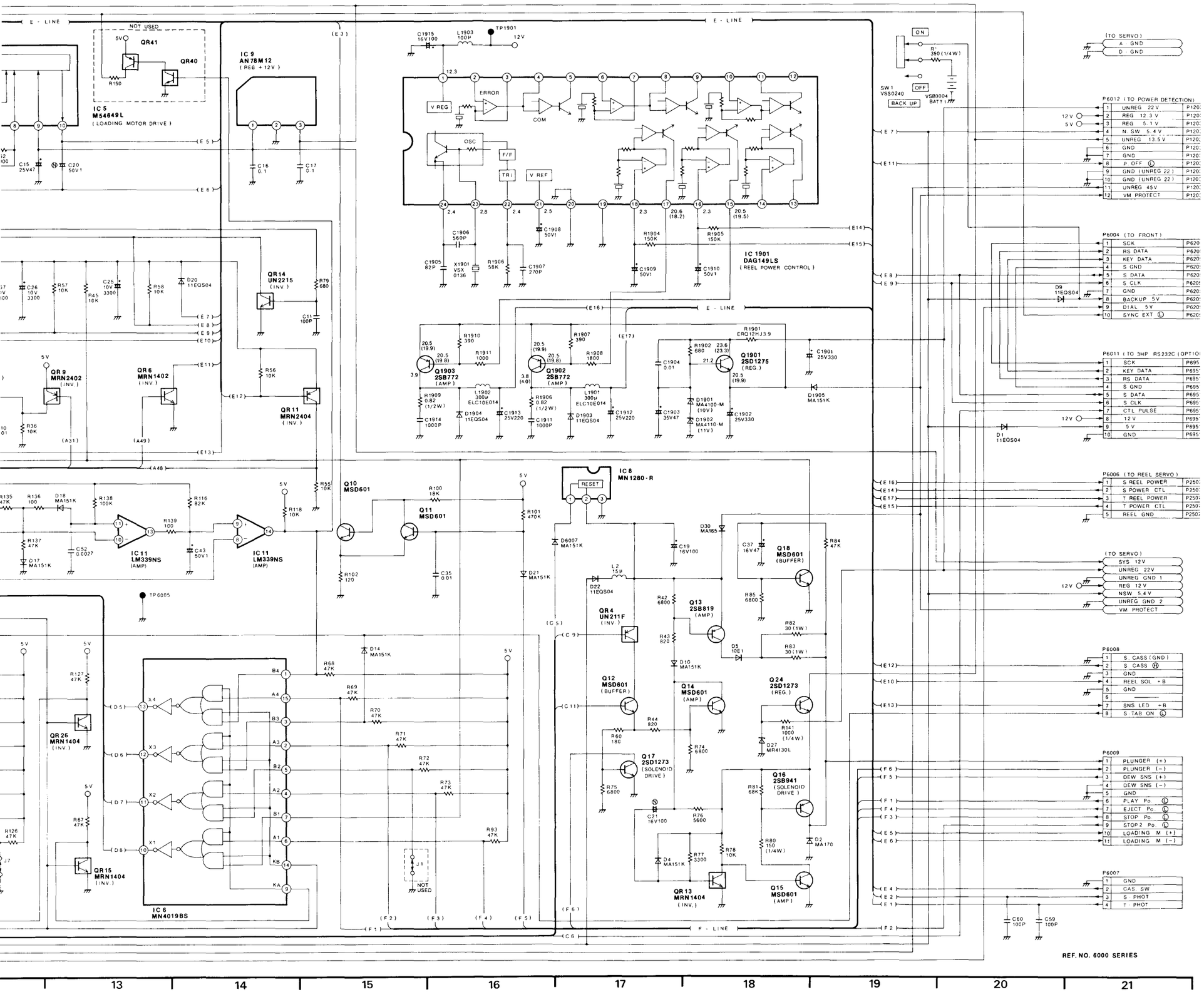
REF. NO.	Q6001			Q6002			Q6003			Q6004			Q6005			Q6006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0
REC	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0
F.F.	0.7	11.6	0.6	11.1	0	11.6	11.6	0	11.1	0	0	0	0	0	0	0	5.1	0
REF. NO.	Q6007			Q6009			Q6010			Q6011			Q6012			Q6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0.2	0.2	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	2.0	2.0	2.7	4.8	4.7	4.1
REC	0	11.5	−0.4	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	2.0	2.0	2.7	4.8	4.7	4.1
F.F.	0	0.2	0.2	5.1	5.1	4.5	0.6	0.6	1.3	0.6	1.3	0.4	0	4.8	0	5.3	−0.1	5.3
REF. NO.	Q6014			Q6015			Q6016			Q6017			Q6018			Q6024		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	0.8	0	12.6	0	12.7	1.4	12.6	0	0	0.7	0	5.1	0.2	12.7	13.5	13.1
REC	0	0	0.8	0	12.6	0	12.7	1.4	12.6	0	0	0.7	0	5.1	0.2	12.7	13.5	13.1
F.F.	0	12.6	0	0	12.6	0	12.7	0	12.6	0	0	0	0	5.1	0	12.7	13.5	13.1
REF. NO.	QR6001			QR6002			QR6003			QR6004			QR6006			QR6007		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	12.3	0	0	0	5.0	0	4.6	4.3	4.8	2.0	0	0	11.3	0	0	0.1	2.1
REC	0	0.1	2.7	0	2.7	0	0	4.6	4.3	4.8	2.0	0	0	11.3	0	0	0.1	2.1
F.F.	0	12.3	0	0	0	5.0	0	4.6	4.3	5.3	4.8	5.1	0	11.3	0	0	0.1	2.1
REF. NO.	QR6008			QR6009			QR6010			QR6011			QR6012			QR6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	6.1	0	10.1	0	0	0	11.8
REC	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	5.1	0	10.1	0	0	0	11.8
F.F.	5.1	5.1	0	5.1	0.6	4.8	0	11.6	0	5.1	0	5.1	0	10.1	0	0	0	11.8
REF. NO.	QR6014			QR6015			QR6016			QR6017			QR6018			QR6019		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	4.8	0. 7	0	1.3	4.8	0	5.0	0	0	5.0	0.6	0	5.0	0.6	12.3	0.3	12.3
REC	0	4.8	0.7	0	1.3	4.8	0	5.0	0	0	5.0	0.6	0	5.0	0.6	12.3	12.1	0.1
F.F.	0	4.8	0.7	0	1.3	4.8	0	5.0	0	0	2.8	0.6	0	2.6	0.6	12.3	0.3	12.3
REF. NO.	QR6020			QR6021			QR6022			QR6023			QR6024			QR6025		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	0	5.1
REC	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	0	5.1
F.F.	5.1	0	5.1	0	5.1	0.6	0	5.1	0	0	0	5.1	0	0	5.1	5.1	1.9	3.4
REF. NO.	QR6026			QR6027			QR6028			QR6029			QR6030			QR6040		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	1.3	4.8	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.1	0.1
REC	0	1.3	4.8	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	5.1	0.1
F.F.	0	1.3	4.8	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.1	0.1
REF. NO.	QR6041																	
MODE	E	C	B															
STOP	5.1	1.6	5.1															
REC	5.1	1.6	5.1															
F.F.	5.1	1.6	5.1															

SYSTEM CONTROL SCHEMATIC DIAGRAM



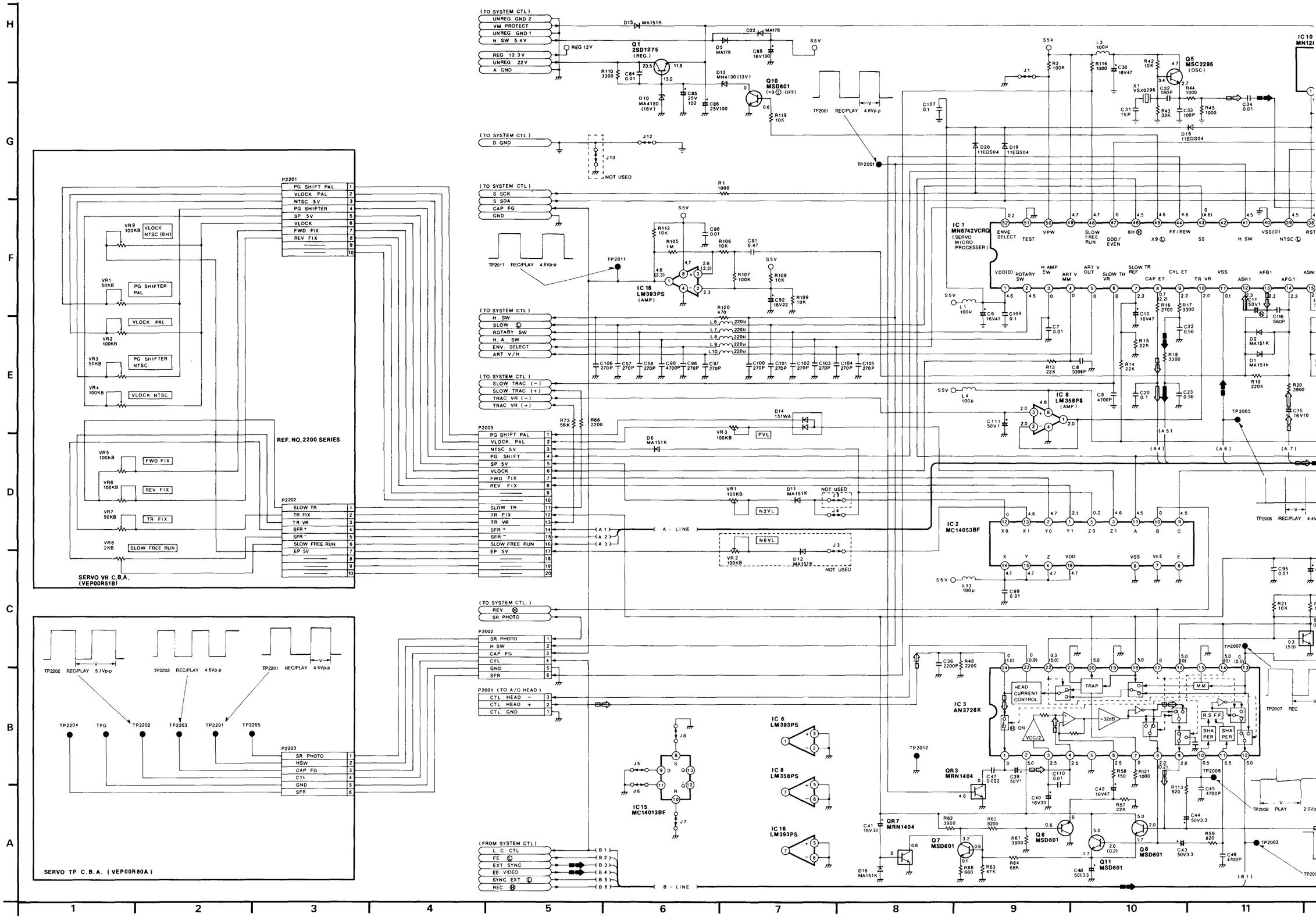


9 10 11 12 13 14 15 16 17 18 19 20 21


E - LINE
NOT USED
5V
QR41
QR40
R150
IC 5
M54649L
(LOADING MOTOR DRIVE)
IC 9
AN78M12
(REG +12V)
C15 25V47
C20 50V1
C16 0.1
C17 0.1
C1915 16V100
L1903 100μ
TP1901
12V
ERROR
V REG
COM
OSC
F/F
TRI
V REF
C1906 560P
C1905 82P
X1901 VSX 0136
R1906 58K
C1907 270P
C1908 50V1
R1904 150K
R1905 150K
C1909 50V1
C1910 50V1
IC 1901
DAG149LS
(REEL POWER CONTROL)
ON
R* 350 (1/4W)
SW1 VSS0240
OFF
BACK UP
VSB0004 BATT
(TO SERVO)
A GND
D GND
P6012 (TO POWER DETECTION)
UNREG 22 V.
REG 12.3 V
REG 5.1 V
N. SW 5.4 V
UNREG 13.5 V
GND
GND
P. OFF
GND (UNREG 22)
GND (UNREG 22)
UNREG 45V
VM PROTECT
P6004 (TO FRONT)
SCK
RS DATA
KEY DATA
S GND
S DATA
S CLK
GND
BACKUP 5V
DIAL 5V
SYNC EXT
D9 11EQS04
P6011 (TO 3HP RS232C (OPTION)
SCK
KEY DATA
RS DATA
S GND
S DATA
S CLK
CTL PULSE
12 V
5 V
GND
D1 11EQS04
P6006 (TO REEL SERVO)
S REEL POWER
S POWER CTL
T REEL POWER
T POWER CTL
REEL GND
(TO SERVO)
SYS 12V
UNREG 22V
UNREG GND 1
REG 12V
NSW 5.4V
UNREG GND 2
VM PROTECT
P6008
S CASS (GND)
S CASS
GND
REEL SOL +B
GND
SNS LED +B
S TAB ON
P6009
PLUNGER (+)
PLUNGER (-)
DEW SNS (+)
DEW SNS (-)
GND
PLAY Po.
EJECT Po.
STOP Po.
STOP2 Po.
LOADING M (+)
LOADING M (-)
P6007
GND
CAS. SW
S. PHOT
T. PHOT
C60 100P
C59 100P
REF. NO. 6000 SERIES
Q1903 2SB772 (AMP)
Q1902 2SB772 (AMP)
Q1901 2SD1275 (REG.)
R1901 ERQ12HJ3.9
R1902 680
C1901 25V330
D1905 MA151K
C1904 0.01
C1903 35V47
C1902 25V330
D1901 MA4100-M (10V)
D1902 MA4110-M (11V)
R1907 390
R1908 1800
R1910 390
R1911 1000
L1902 300μ ELC10E014
L1901 300μ ELC10E014
R1909 0.82 (1/2W)
R1906 0.82 (1/2W)
D1904 11EQS04
D1903 11EQS04
C1914 1000P
C1913 25V220
C1911 1000P
C1912 25V220
QR14 UN2215 (INV.)
QR9 MRN2402 (INV.)
QR6 MRN1402 (INV.)
QR11 MRN2404 (INV.)
D20 11EQS04
C11 100P
R79 680
R56 10K
R57 10K
R58 10K
R45 10K
C26 10V 3300
C25 10V 3300
R36 10K
IC 11 LM339NS (AMP)
IC 11 LM339NS (AMP)
R135 47K
R136 100
D18 MA151K
R138 100K
R139 100
R137 47K
C52 0.0027
D17 MA151K
C43 50V1
R116 82K
R118 10K
R55 10K
Q10 MSD601
Q11 MSD601
R100 18K
R101 470K
R102 120
C35 0.01
D21 MA151K
IC 8 MN1280-R
RESET
D6007 MA151K
C19 16V100
D30 MA165
L2 15μ
D22 11EQS04
C37 16V47
Q18 MSD601 (BUFFER)
R84 47K
R42 6800
Q13 2SB819 (AMP)
R85 6800
QR4 UN211F (INV.)
R43 820
R82 30 (1W)
R83 30 (1W)
D5 10E1
D10 MA151K
Q12 MSD601 (BUFFER)
Q14 MSD601 (AMP)
Q24 2SD1273 (REG.)
R44 820
R60 180
R74 6800
R141 1000 (1/4W)
D27 MR4130L
Q17 2SD1273 (SOLENOID DRIVE)
Q16 2SB941 (SOLENOID DRIVE)
R75 6800
R81 68K
C21 16V100
R76 5600
R80 150 (1/4W)
D2 MA170
R78 10K
D4 MA151K
R77 3300
QR13 MRN1404 (INV.)
Q15 MSD601 (AMP.)
TP6005
R127 47K
R67 47K
R126 47K
QR26 MRN1404 (INV.)
QR15 MRN1404 (INV.)
IC 6 MN4019BS
D14 MA151K
R68 47K
R69 47K
R70 47K
R71 47K
R72 47K
R73 47K
R93 47K
J1
NOT USED
E - LINE
F - LINE

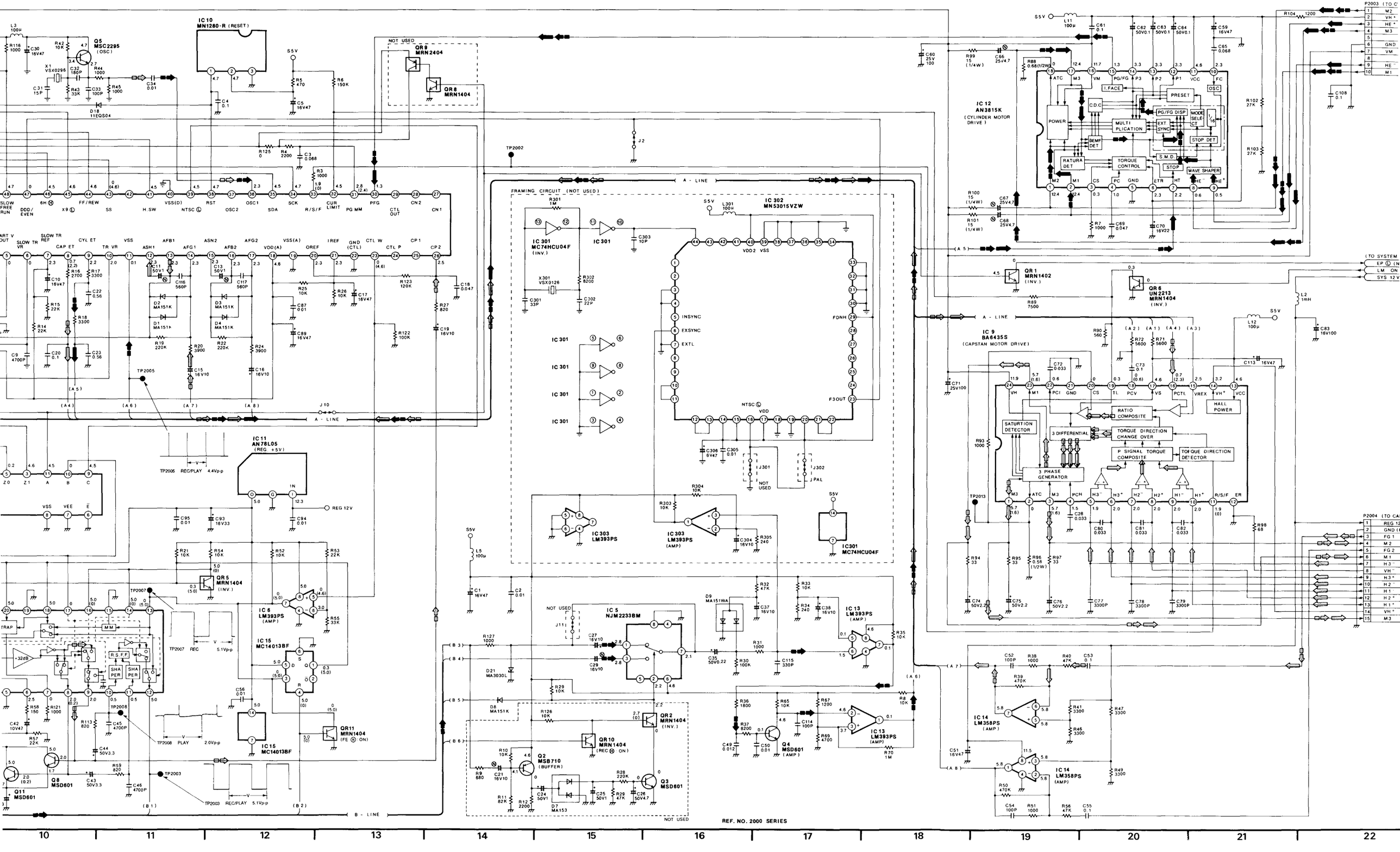
SERVO SCHEMATIC DIAGRAM

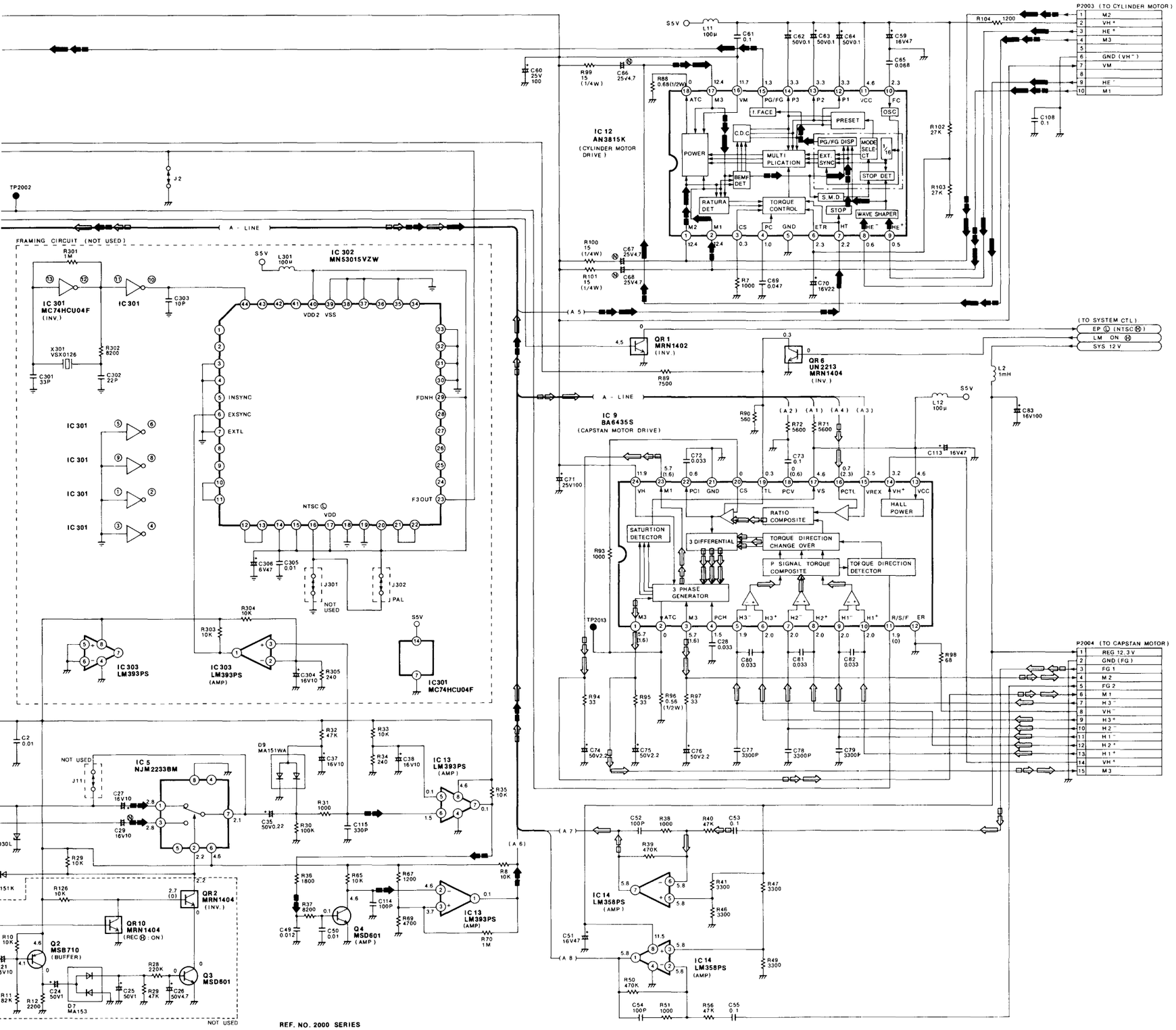
CYLINDER SERVO SPEED LOOP — CYLINDER SERVO PHASE LOOP — CAPSTAN SERVO SPEED LOOP — CAPSTAN SE



ED LOOP

CAPSTAN SERVO PHASE LOOP





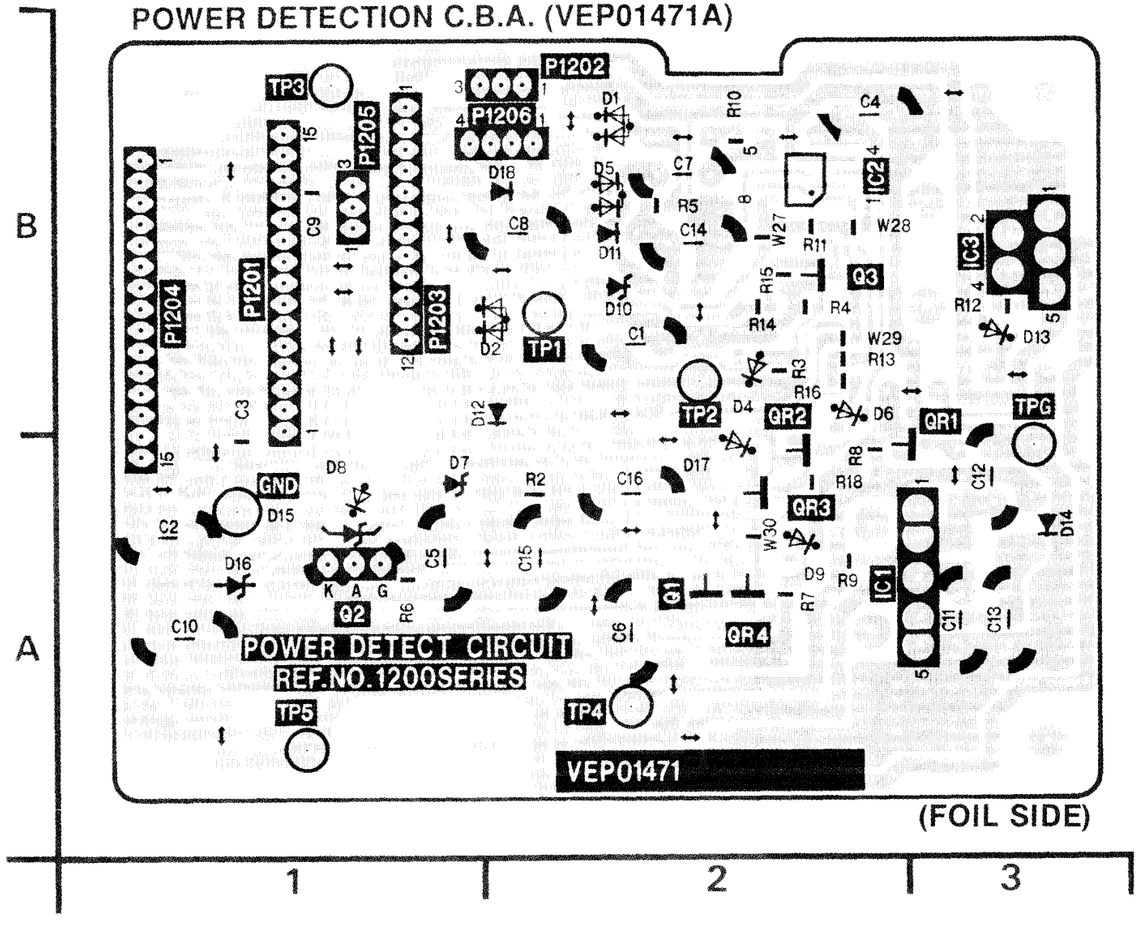
POWER DET C.B.A.	
Transistor	
Q1201	A-2 Ⓕ
Q1202	A-1 Ⓕ
Q1203	B-2 Ⓕ
Transistor & Resistor	
QR1201	B-3 Ⓕ
QR1202	B-2 Ⓕ
QR1203	A-2 Ⓕ
QR1204	A-2 Ⓕ
Integrated Circuit	
IC1201	A-2 Ⓕ
IC1202	B-2 Ⓕ
IC1203	B-3 Ⓕ
Test Point	
TP1201	B-2 Ⓕ
TP1202	B-2 Ⓕ
TP1203	B-1 Ⓕ
TP1204	A-2 Ⓕ
TP1205	A-1 Ⓕ
TPG	B-3 Ⓕ
Connector	
P1201	B-1 Ⓕ
P1202	B-2 Ⓕ
P1203	B-1 Ⓕ
P1204	B-1 Ⓕ
P1205	B-1 Ⓕ
P1206	B-2 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

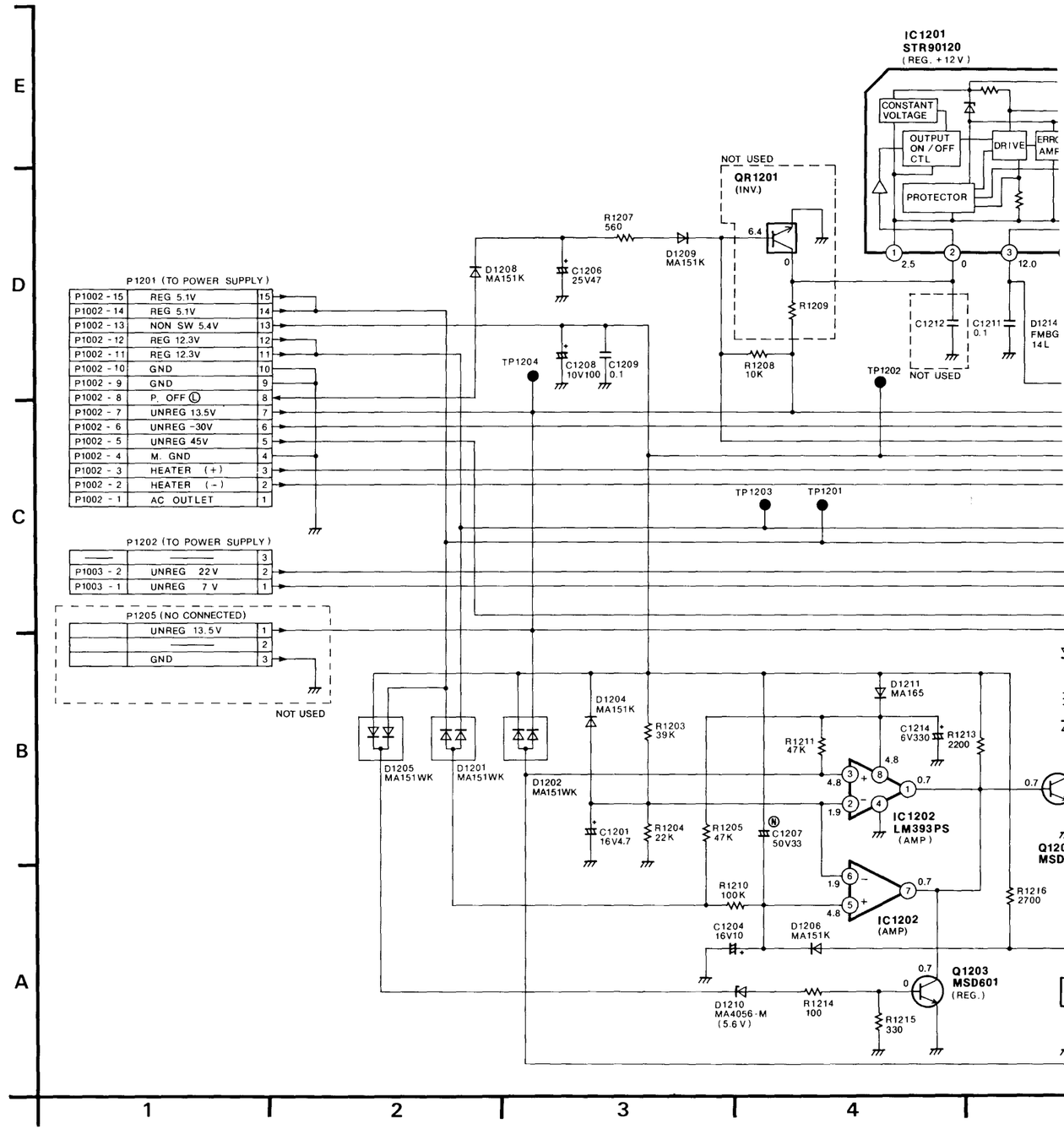
REF. NO. 2000 SERIES

15 16 17 18 19 20 21 22

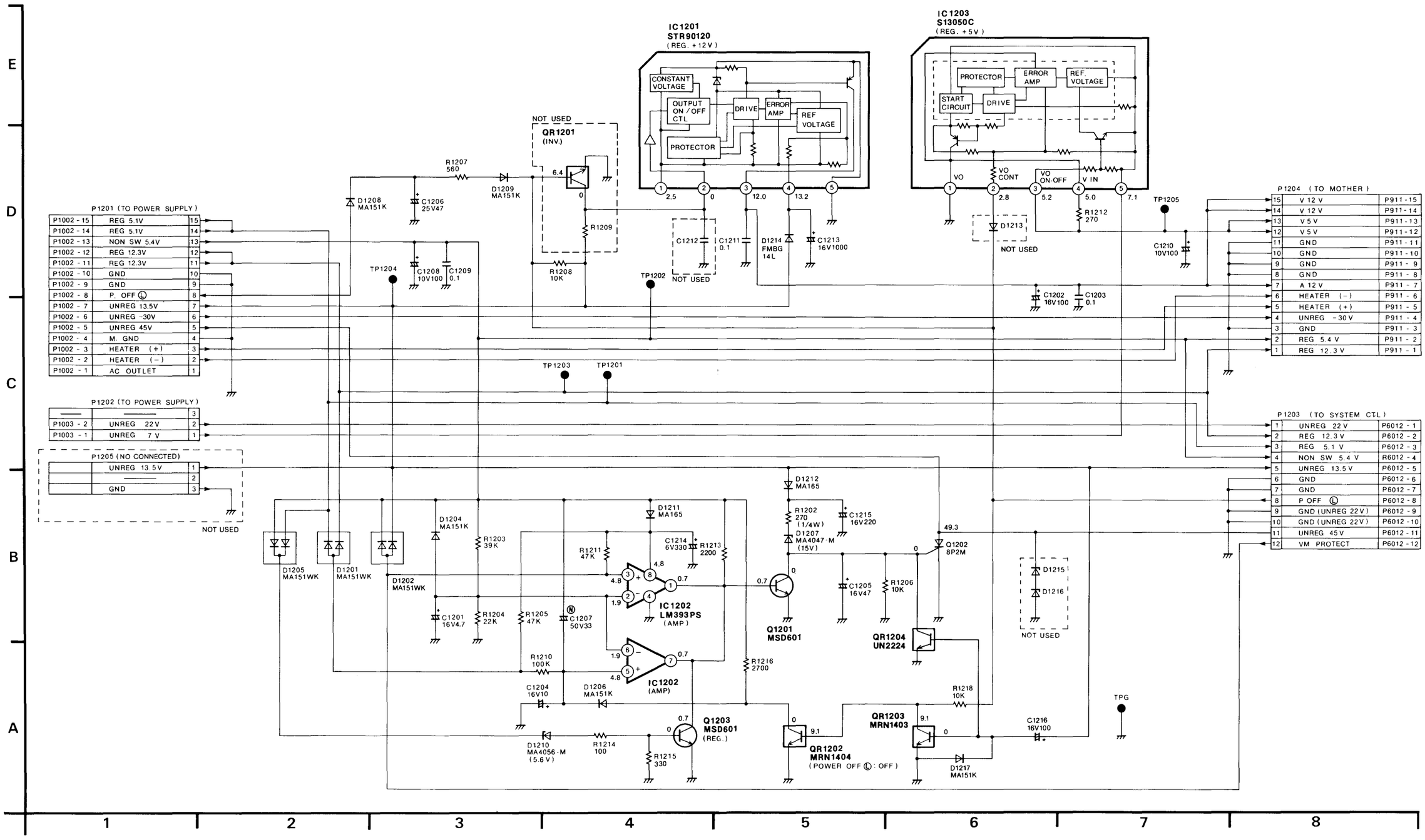
POWER DETECTION C.B.A. (VEP01471A)



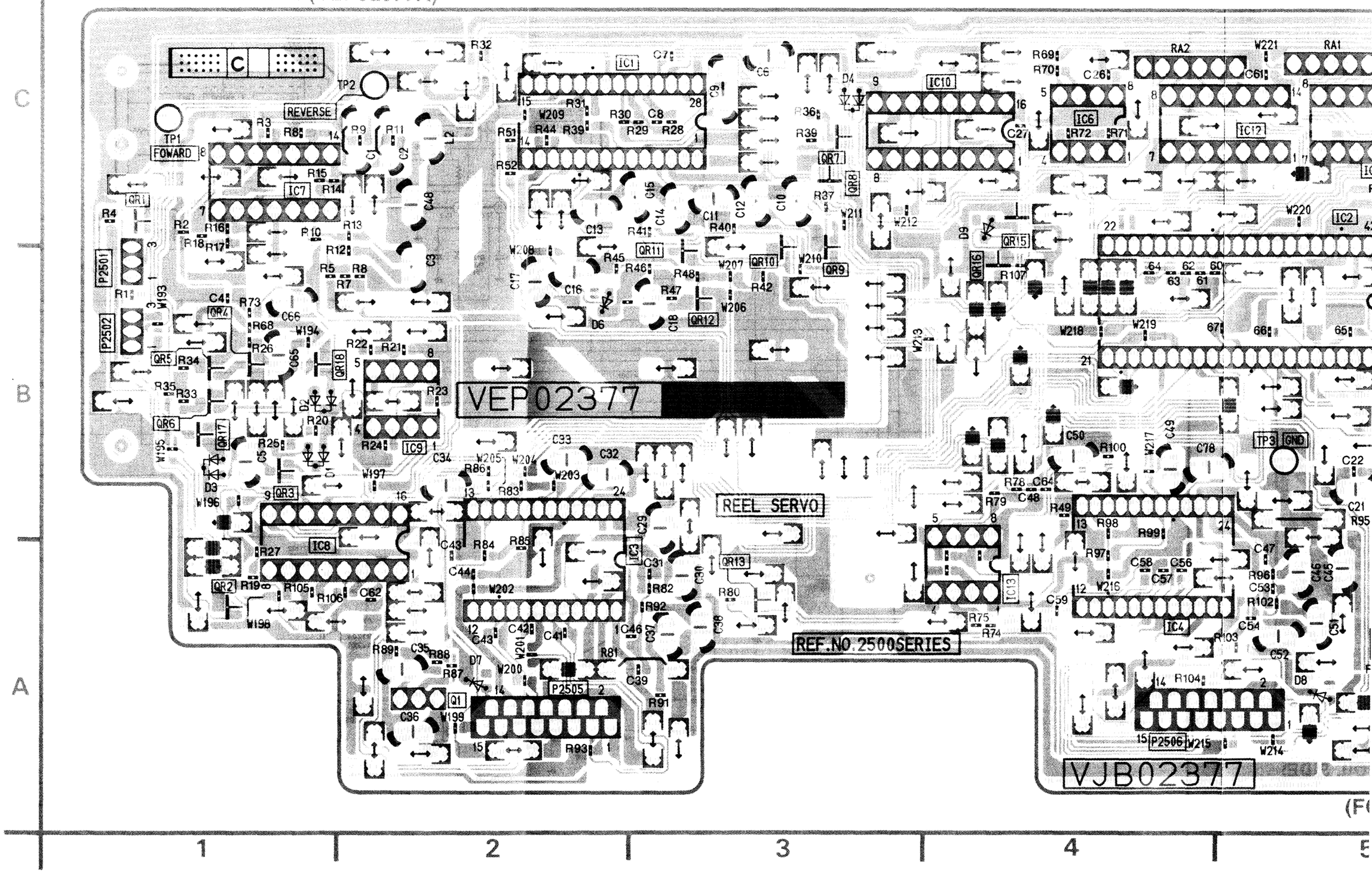
POWER DETECTION SCHEMATIC DIAGRAM

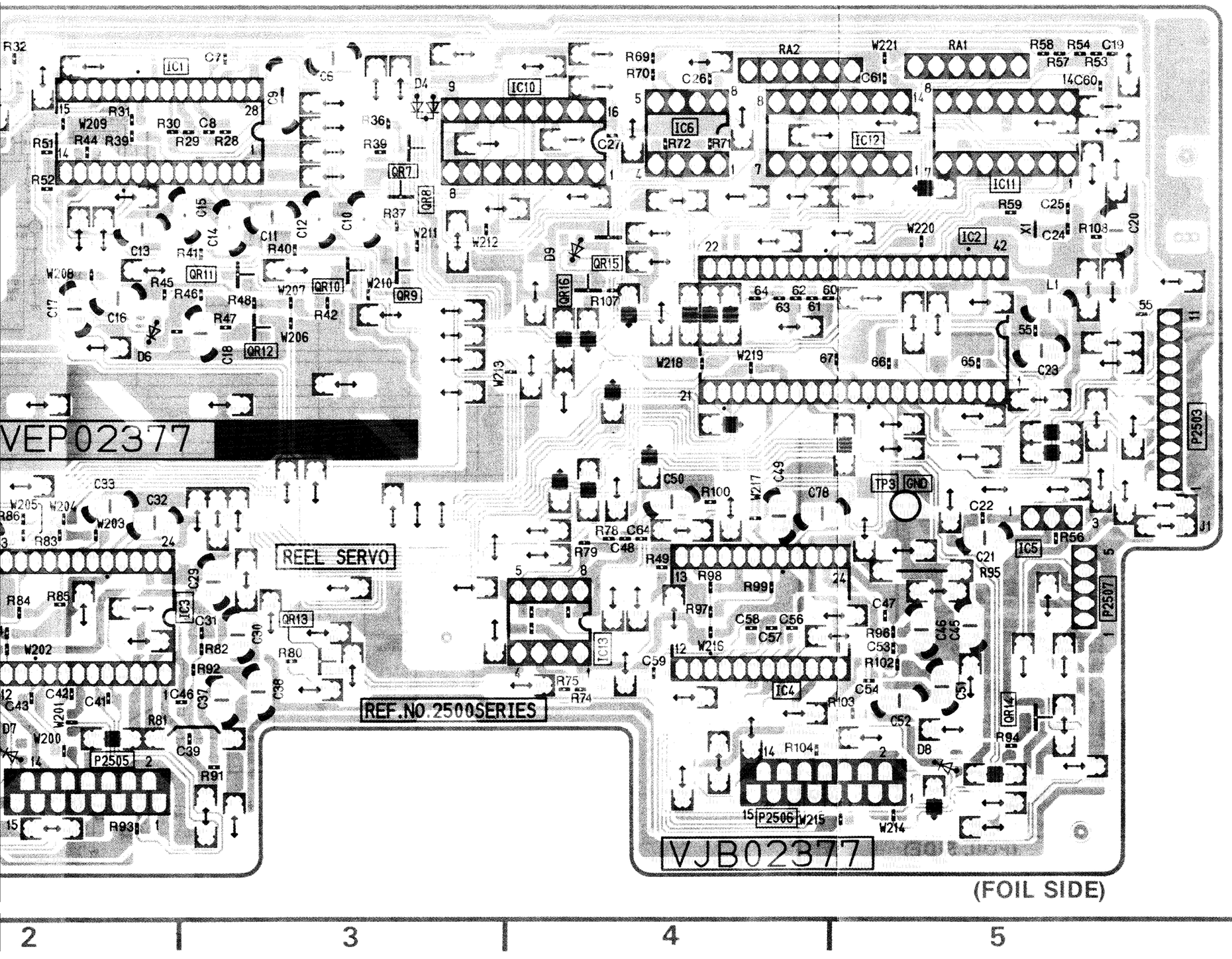


POWER DETECTION SCHEMATIC DIAGRAM



REEL SERVO C.B.A. (VEP02377A)





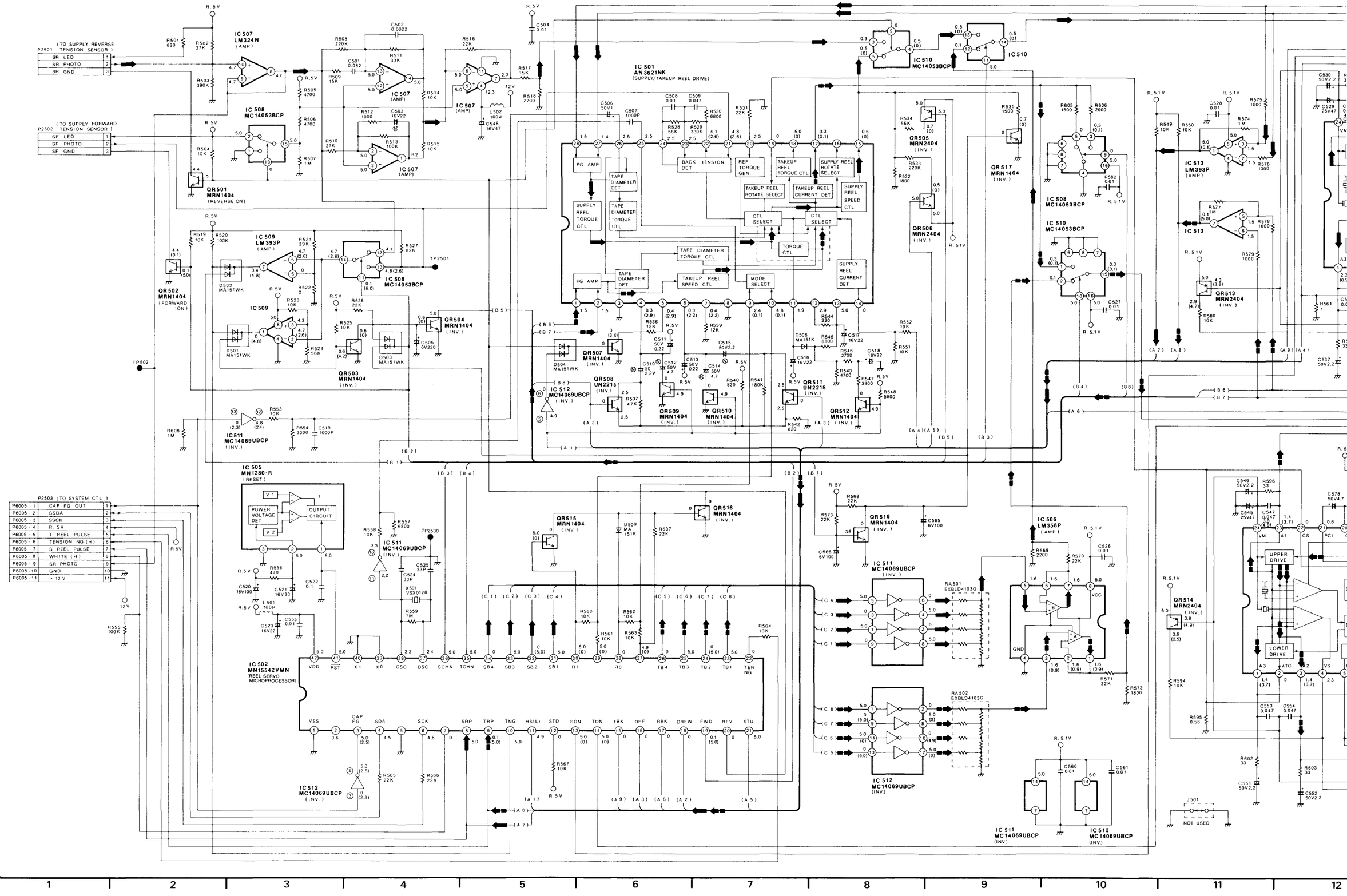
REEL SERVO C.B.A.		
Transistor		
Q2501	A-2	Ⓕ
Transistor & Resistor		
QR2501	C-1	Ⓕ
QR2502	A-1	Ⓕ
QR2503	B-1	Ⓕ
QR2504	B-1	Ⓕ
QR2505	B-1	Ⓕ
QR2506	B-1	Ⓕ
QR2507	C-3	Ⓕ
QR2508	C-3	Ⓕ
QR2509	B-3	Ⓕ
QR2510	B-3	Ⓕ
QR2511	B-3	Ⓕ
QR2512	B-3	Ⓕ
QR2513	A-3	Ⓕ
QR2514	C-5	Ⓕ
QR2515	B-4	Ⓕ
QR2516	B-4	Ⓕ
QR2517	B-1	Ⓕ
QR2518	B-1	Ⓕ
Integrated Circuit		
IC2501	C-2	Ⓕ
IC2502	C-5	Ⓕ
IC2503	A-2	Ⓕ
IC2504	A-4	Ⓕ
IC2505	B-5	Ⓕ
IC2506	C-4	Ⓕ
IC2507	C-1	Ⓕ
IC2508	A-1	Ⓕ
IC2509	B-2	Ⓕ
IC2510	C-4	Ⓕ
IC2511	C-5	Ⓕ
IC2512	C-5	Ⓕ
IC2513	A-4	Ⓕ
Test Point		
TP2501	C-1	Ⓕ
TP2502	C-2	Ⓕ
TP2503	B-5	Ⓕ
Connector		
P2501	B-1	Ⓕ
P2502	B-1	Ⓕ
P2503	B-5	Ⓕ
P2505	A-2	Ⓕ
P2506	A-4	Ⓕ
P2507	C-5	Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

REEL SERVO SCHEMATIC DIAGRAM

SUPPLY REEL DRIVE

TAKEUP REEL DRIVE



SUPPLY REEL DRIVE

TAKEUP REEL DRIVE

IC 501
AN3621NK
(SUPPLY/TAKEUP REEL DRIVE)

IC 510
MC14053BCP

IC 508
MC14053BCP

IC 513
LM393P
(AMP)

QR505
MRN2404
(INV.)

QR506
MRN2404
(INV.)

QR513
MRN2404
(INV.)

QR517
MRN1404
(INV.)

IC 503
AN3834K
(SUPPLY REEL MOTOR DRIVE)

Q501
2SD636
(REG.)

P2505 (TO SUPPLY REEL MOTOR)

15	VFG +
14	VFG −
13	FG +
12	M1
11	FG −
10	H1 −
9	H1 +
8	M2
7	VH +
6	H2 −
5	H2 +
4	M3
3	H3 −
2	VH −
1	H3 +

IC 504
AN3834K
(TAKEUP REEL MOTOR DRIVE)

P2506 (TO TAKEUP REEL MOTOR)

15	M2
14	H3 −
13	H3 +
12	M1
11	M3
10	H2 −
9	VH −
8	H2 +
7	VH +
6	H1 −
5	H1 +
4	VFG +
3	FG +
2	VFG −
1	FG −

P2507

1	S REEL POWER	P6006 : 1
2	S POWER CTL	P6006 : 2
3	T REEL POWER	P6006 : 3
4	T POWER CTL	P6006 : 4
5	REEL GND	P6006 : 5

QR507 MRN1404 (INV.)
QR508 UN2215 (INV.)
QR509 MRN1404 (INV.)
QR510 MRN1404 (INV.)
QR511 UN2215 (INV.)
QR512 MRN1404 (INV.)
QR514 MRN2404 (INV.)
QR515 MRN1404 (INV.)
QR516 MRN1404 (INV.)
QR518 MRN1404 (INV.)

IC 511
MC14069UBCP
(INV.)

IC 512
MC14069UBCP
(INV.)

IC 512
MC14069UBCP
(INV.)

IC 511
MC14069UBCP
(INV.)

IC 506
LM358P
(AMP)

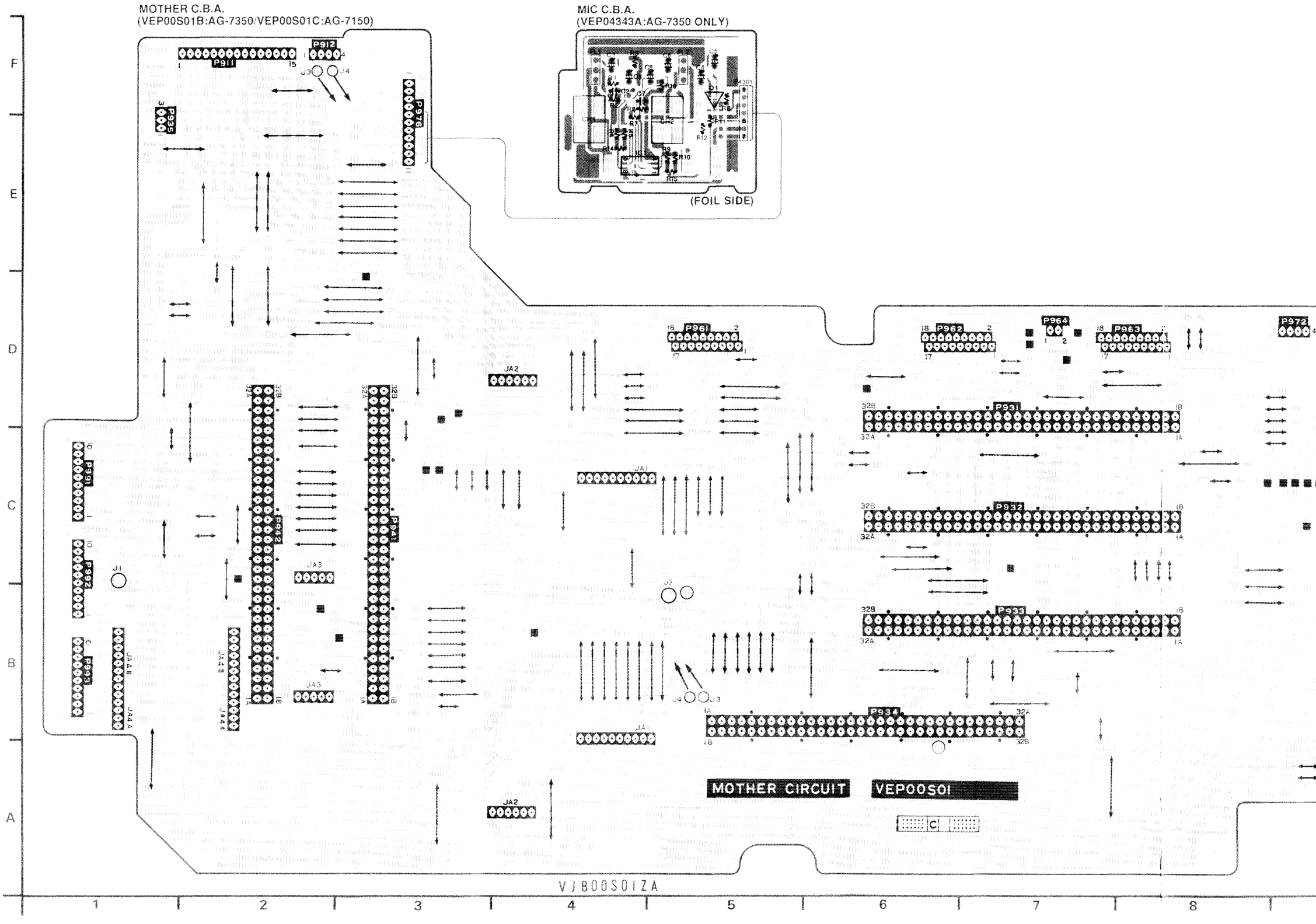
RA501 EXBLD4103G

RA502 EXBLD4103G

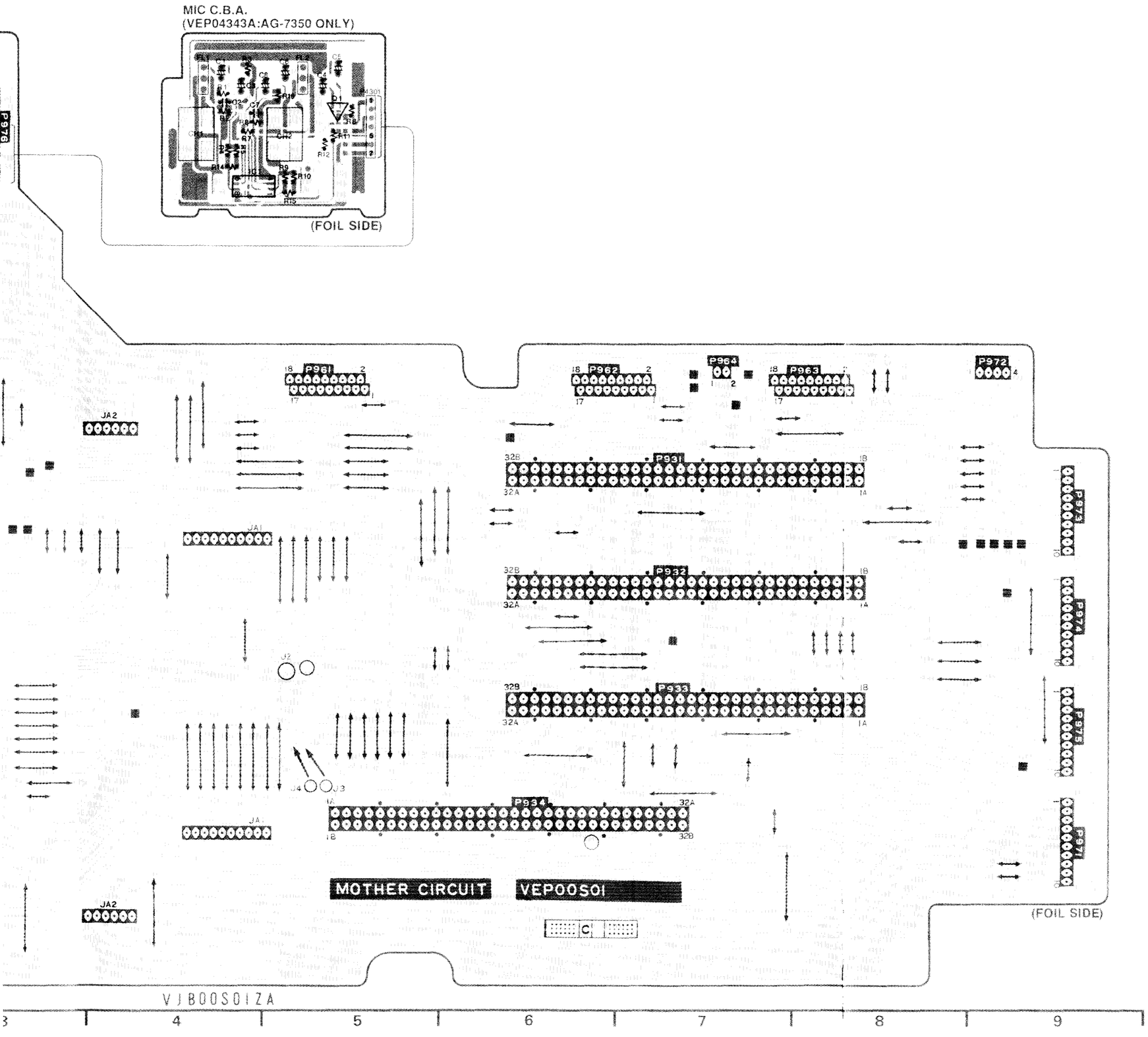
NOT USED

REF. NO. 2000 SERIES

MOTHER C.B.A. (VEP00S01B: AG-7350/VEP00S01C: AG-7150) AND MIC C.B.A. (VEP04343A)



EP00S01C: AG-7150) AND MIC C.B.A. (VEP04343A)



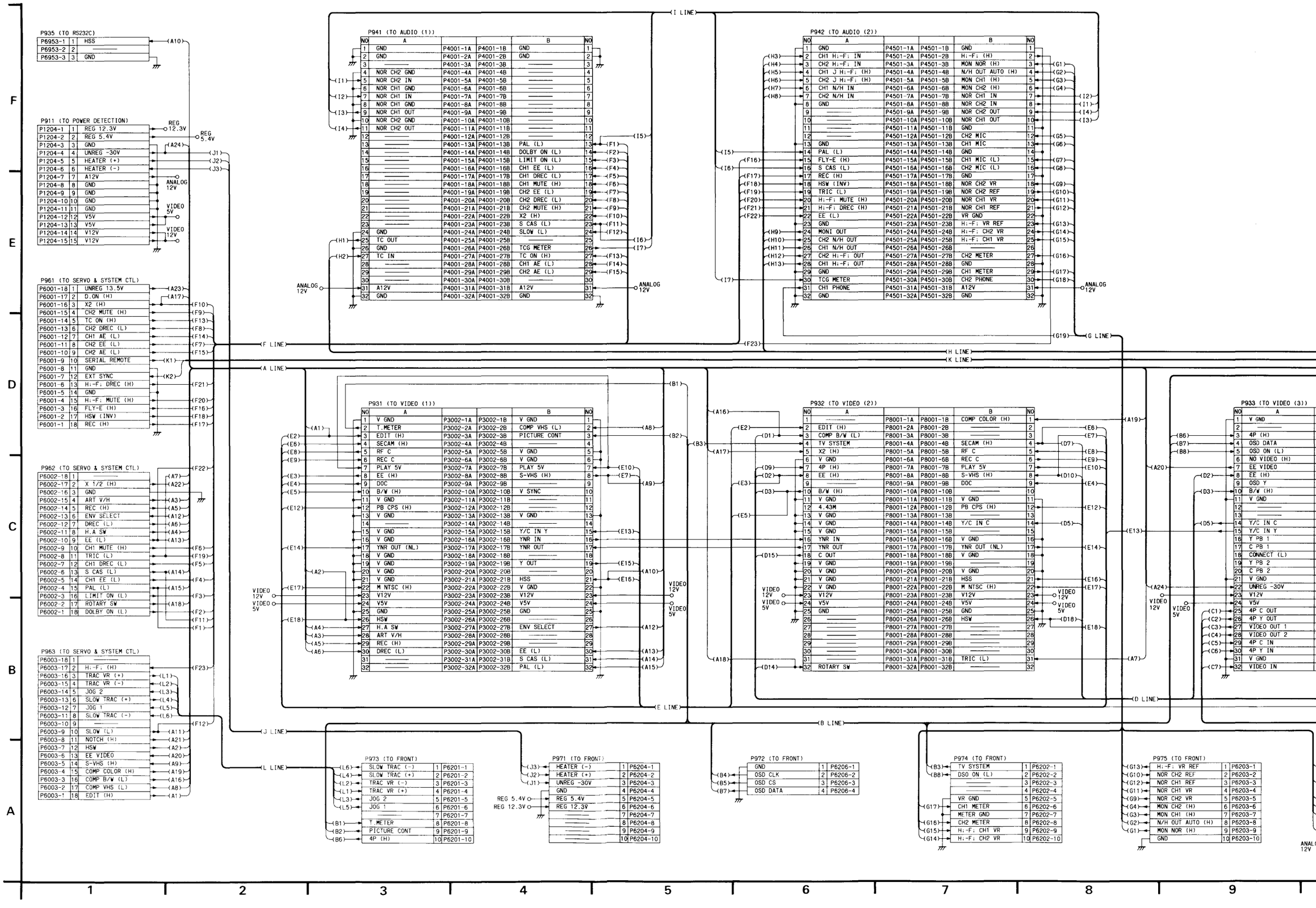
MOTHER C.B.A.	
Connector	
P911	F-2 Ⓕ
P912	F-2 Ⓕ
P931	D-7 Ⓕ
P932	C-7 Ⓕ
P933	B-7 Ⓕ
P934	B-6 Ⓕ
P935	E-1 Ⓕ
P941	C-3 Ⓕ
P942	C-2 Ⓕ
P961	D-5 Ⓕ
P962	D-6 Ⓕ
P963	D-8 Ⓕ
P964	D-7 Ⓕ
P971	A-9 Ⓕ
P972	D-9 Ⓕ
P973	C-9 Ⓕ
P974	C-9 Ⓕ
P975	B-9 Ⓕ
P976	F-3 Ⓕ
P991	C-1 Ⓕ
P992	C-1 Ⓕ
P993	B-1 Ⓕ

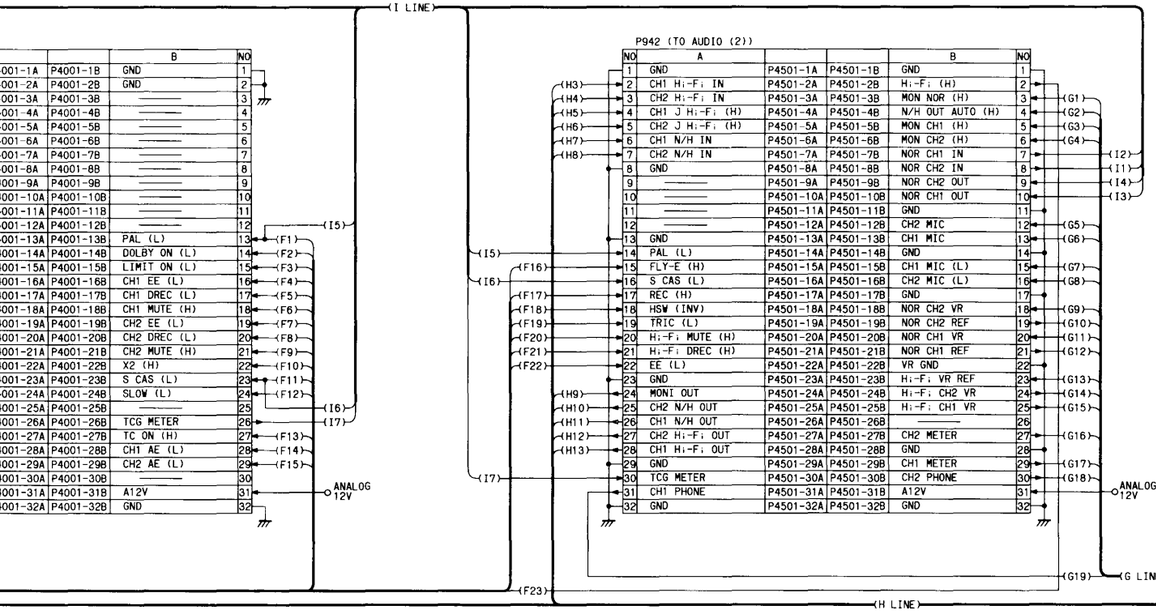
ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

MIC C.B.A.	
Transistor	
Q4301	F-5 Ⓕ
Integrated Circuit	
IC4301	E-4 Ⓕ
Connector	
P4301	F-5 Ⓕ

ADDRESS INFORMATION
Ⓒ... COMPONENT SIDE
Ⓕ... FOIL SIDE

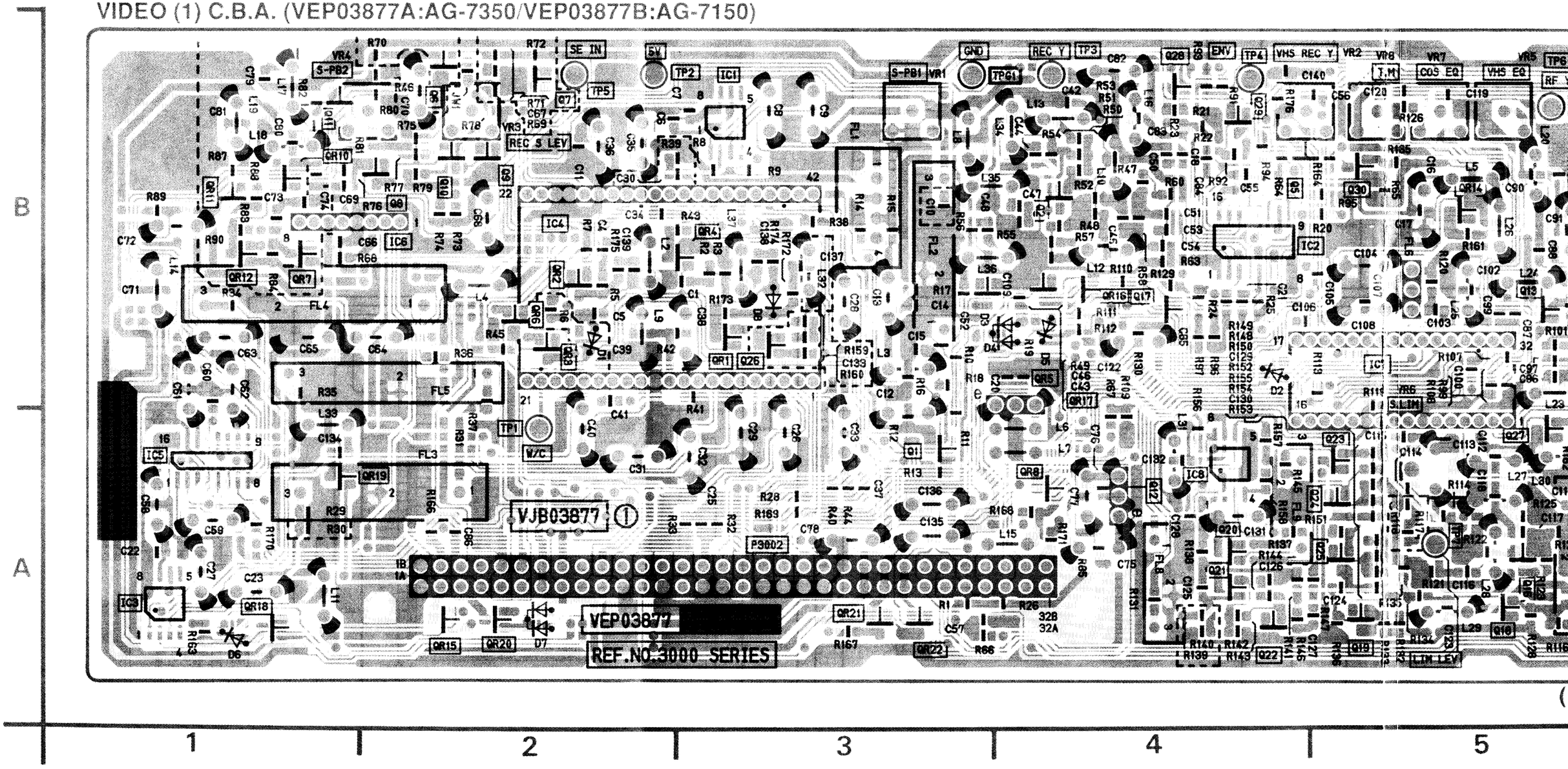
MOTHER SCHEMATIC DIAGRAM




(I LINE)
P942 (TO AUDIO (2))
NO A B NO
1 GND P4501-1A P4501-1B GND 1
2 CH1 Hi-F; IN P4501-2A P4501-2B Hi-F; (H) 2
3 CH2 Hi-F; IN P4501-3A P4501-3B MON NOR (H) 3
4 CH1 J Hi-F; (H) P4501-4A P4501-4B N/H OUT AUTO (H) 4
5 CH2 J Hi-F; (H) P4501-5A P4501-5B MON CH1 (H) 5
6 CH1 N/H IN P4501-6A P4501-6B MON CH2 (H) 6
7 CH2 N/H IN P4501-7A P4501-7B NOR CH1 IN 7
8 GND P4501-8A P4501-8B NOR CH2 IN 8
9 P4501-9A P4501-9B NOR CH2 OUT 9
10 P4501-10A P4501-10B NOR CH1 OUT 10
11 P4501-11A P4501-11B GND 11
12 P4501-12A P4501-12B CH2 MIC 12
13 GND P4501-13A P4501-13B CH1 MIC 13
14 PAL (L) P4501-14A P4501-14B GND 14
15 FLY-E (H) P4501-15A P4501-15B CH1 MIC (L) 15
16 S CAS (L) P4501-16A P4501-16B CH2 MIC (L) 17
17 REC (H) P4501-17A P4501-17B GND 17
18 HSW (INV) P4501-18A P4501-18B NOR CH2 VR 18
19 TRIC (L) P4501-19A P4501-19B NOR CH2 REF 19
20 Hi-F; MUTE (H) P4501-20A P4501-20B NOR CH1 VR 20
21 Hi-F; DREC (H) P4501-21A P4501-21B NOR CH1 REF 21
22 EE (L) P4501-22A P4501-22B VR GND 22
23 GND P4501-23A P4501-23B Hi-F; VR REF 23
24 MON1 OUT P4501-24A P4501-24B Hi-F; CH2 VR 24
25 CH2 N/H OUT P4501-25A P4501-25B Hi-F; CH1 VR 25
26 CH1 N/H OUT P4501-26A P4501-26B 26
27 CH2 Hi-F; OUT P4501-27A P4501-27B CH2 METER 27
28 CH1 Hi-F; OUT P4501-28A P4501-28B GND 28
29 GND P4501-29A P4501-29B CH1 METER 29
30 TCG METER P4501-30A P4501-30B CH2 PHONE 30
31 CH1 PHONE P4501-31A P4501-31B A12V 31
32 GND P4501-32A P4501-32B GND 32
P001-1A P4001-1B GND 1
P001-2A P4001-2B GND 2
P001-3A P4001-3B 3
P001-4A P4001-4B 4
P001-5A P4001-5B 5
P001-6A P4001-6B 6
P001-7A P4001-7B 7
P001-8A P4001-8B 8
P001-9A P4001-9B 9
P001-10A P4001-10B 10
P001-11A P4001-11B 11
P001-12A P4001-12B 12
P001-13A P4001-13B PAL (L) 13
P001-14A P4001-14B DOLBY ON (L) 14
P001-15A P4001-15B LIMIT ON (L) 15
P001-16A P4001-16B CH1 EE (L) 16
P001-17A P4001-17B CH1 DREC (L) 17
P001-18A P4001-18B CH1 MUTE (H) 18
P001-19A P4001-19B CH2 EE (L) 19
P001-20A P4001-20B CH2 DREC (L) 20
P001-21A P4001-21B CH2 MUTE (H) 21
P001-22A P4001-22B X2 (H) 22
P001-23A P4001-23B S CAS (L) 23
P001-24A P4001-24B SLOW (L) 24
P001-25A P4001-25B 25
P001-26A P4001-26B TCG METER 26
P001-27A P4001-27B TC ON (H) 27
P001-28A P4001-28B CH1 AE (L) 28
P001-29A P4001-29B CH2 AE (L) 29
P001-30A P4001-30B 30
P001-31A P4001-31B A12V 31
P001-32A P4001-32B GND 32
ANALOG 12V
(F23)
(H LINE)
(K LINE)
(B1)
P3002-1B V GND 1
P3002-2B COMP VHS (L) 2
P3002-3B PICTURE CONT 3
P3002-4B 4
P3002-5B V GND 5
P3002-6B V GND 6
P3002-7B PLAY 5V 7
P3002-8B S-VHS (H) 8
P3002-9B 9
P3002-10B V SYNC 10
P3002-11B 11
P3002-12B 12
P3002-13B V GND 13
P3002-14B 14
P3002-15B Y/C IN Y 15
P3002-16B YNR IN 16
P3002-17B YNR OUT 17
P3002-18B 18
P3002-19B Y OUT 19
P3002-20B 20
P3002-21B HSS 21
P3002-22B V GND 22
P3002-23B V12V 23
P3002-24B V5V 24
P3002-25B GND 25
P3002-26B 26
P3002-27B ENV SELECT 27
P3002-28B 28
P3002-29B 29
P3002-30B EE (L) 30
P3002-31B S CAS (L) 31
P3002-32B PAL (L) 32
VIDEO 12V
VIDEO 5V
(E LINE)
P932 (TO VIDEO (2))
NO A B NO
1 P8001-1A P8001-1B COMP COLOR (H) 1
2 EDIT (H) P8001-2A P8001-2B 2
3 COMP B/W (L) P8001-3A P8001-3B 3
4 TV SYSTEM P8001-4A P8001-4B SECAM (H) 4
5 X2 (H) P8001-5A P8001-5B RF C 5
6 V GND P8001-6A P8001-6B REC C 6
7 4P (H) P8001-7A P8001-7B PLAY 5V 7
8 EE (H) P8001-8A P8001-8B S-VHS (H) 8
9 P8001-9A P8001-9B DOC 9
10 B/W (H) P8001-10A P8001-10B 10
11 V GND P8001-11A P8001-11B V GND 11
12 4.43M P8001-12A P8001-12B PB CPS (H) 12
13 V GND P8001-13A P8001-13B 13
14 V GND P8001-14A P8001-14B Y/C IN C 14
15 V GND P8001-15A P8001-15B 15
16 YNR IN P8001-16A P8001-16B V GND 16
17 YNR OUT P8001-17A P8001-17B YNR OUT (NL) 17
18 C OUT P8001-18A P8001-18B V GND 18
19 V GND P8001-19A P8001-19B 19
20 V GND P8001-20A P8001-20B V GND 20
21 V GND P8001-21A P8001-21B HSS 21
22 V GND P8001-22A P8001-22B M NTSC (H) 22
23 V12V P8001-23A P8001-23B V12V 23
24 V5V P8001-24A P8001-24B V5V 24
25 GND P8001-25A P8001-25B GND 25
26 P8001-26A P8001-26B HSW 26
27 P8001-27A P8001-27B 27
28 P8001-28A P8001-28B 28
29 P8001-29A P8001-29B 29
30 P8001-30A P8001-30B 30
31 P8001-31A P8001-31B TRIC (L) 31
32 ROTARY SW P8001-32A P8001-32B 32
VIDEO 12V
VIDEO 5V
P933 (TO VIDEO (3))
NO A B NO
1 V GND P3501-1A P3501-1B V GND 1
2 P3501-2A P3501-2B SECAM (H) 2
3 4P (H) P3501-3A P3501-3B OSD CLK 3
4 OSD DATA P3501-4A P3501-4B OSD CS 4
5 OSD ON (L) P3501-5A P3501-5B 5
6 NO VIDEO (H) P3501-6A P3501-6B NOTCH (H) 6
7 EE VIDEO P3501-7A P3501-7B 4P (H) 7
8 EE (H) P3501-8A P3501-8B S-VHS (H) 8
9 OSD Y P3501-9A P3501-9B 9
10 B/W (H) P3501-10A P3501-10B 10
11 V GND P3501-11A P3501-11B V GND 11
12 P3501-12A P3501-12B 12
13 P3501-13A P3501-13B V GND 13
14 Y/C IN C P3501-14A P3501-14B V GND 14
15 Y/C IN Y P3501-15A P3501-15B V GND 15
16 Y PB 1 P3501-16A P3501-16B ROTARY SW 16
17 C PB 1 P3501-17A P3501-17B SLOW (L) 17
18 CONNECT (L) P3501-18A P3501-18B C OUT 18
19 Y PB 2 P3501-19A P3501-19B Y OUT 19
20 C PB 2 P3501-20A P3501-20B V GND 20
21 V GND P3501-21A P3501-21B 21
22 UNREG -30V P3501-22A P3501-22B V GND 22
23 V12V P3501-23A P3501-23B V12V 23
24 V5V P3501-24A P3501-24B V5V 24
25 4P C OUT P3501-25A P3501-25B GND 25
26 4P Y OUT P3501-26A P3501-26B HSW 26
27 VIDEO OUT 1 P3501-27A P3501-27B X 1/2 (H) 27
28 VIDEO OUT 2 P3501-28A P3501-28B V GND 28
29 4P C IN P3501-29A P3501-29B V GND 29
30 4P Y IN P3501-30A P3501-30B V GND 30
31 V GND P3501-31A P3501-31B V GND 31
32 VIDEO IN P3501-32A P3501-32B UNREG13.5V 32
VIDEO 12V
VIDEO 5V
(D LINE)
(E15)
(B LINE)
(C LINE)
P991 (TO REAR JACK)
4P Y OUT 1 P6901-1
V GND 2 P6901-2
VIDEO OUT 1 3 P6901-3
VIDEO OUT 2 4 P6901-4
OUT GND 5 P6901-5
MONI OUT 6 P6901-6
CH2 N/H OUT 7 P6901-7
CH1 N/H OUT 8 P6901-8
CH2 Hi-F; OUT 9 P6901-9
CH1 Hi-F; OUT 10 P6901-10
P992 (TO REAR JACK)
CH1 N/H IN 1 P6902-1
CH2 N/H IN 2 P6902-2
N/H IN GND 3 P6902-3
4P C IN 4 P6902-4
V GND 5 P6902-5
4P Y IN 6 P6902-6
V GND 7 P6902-7
VIDEO IN 8 P6902-8
V GND 9 P6902-9
4P C OUT 10 P6902-10
P993 (TO REAR JACK)
TC OUT 1 P6903-1
TC IN 2 P6903-2
GND 3 P6903-3
EXT SYNC 4 P6903-4
SERIAL REMOTE 5 P6903-5
Hi-F; IN GND 6 P6903-6
CH1 Hi-F; IN 7 P6903-7
CH2 Hi-F; IN 8 P6903-8
CH1 J Hi-F; (H) 9 P6903-9
CH2 J Hi-F; (H) 10 P6903-10
P971 (TO FRONT)
HEATER (-) 1 P6204-1
HEATER (+) 2 P6204-2
UNREG -30V 3 P6204-3
GND 4 P6204-4
REG 5.4V 5 P6204-5
REG 12.3V 6 P6204-6
7 P6204-7
8 P6204-8
9 P6204-9
10 P6204-10
REG 5.4V
REG 12.3V
P972 (TO FRONT)
GND 1 P6206-1
OSD CLK 2 P6206-2
OSD CS 3 P6206-3
OSD DATA 4 P6206-4
P974 (TO FRONT)
TV SYSTEM 1 P6202-1
DSO ON (L) 2 P6202-2
3 P6202-3
4 P6202-4
VR GND 5 P6202-5
CH1 METER 6 P6202-6
METER GND 7 P6202-7
CH2 METER 8 P6202-8
Hi-F; CH1 VR 9 P6202-9
Hi-F; CH2 VR 10 P6202-10
P975 (TO FRONT)
Hi-F; VR REF 1 P6203-1
NOR CH2 REF 2 P6203-2
NOR CH1 REF 3 P6203-3
NOR CH1 VR 4 P6203-4
NOR CH2 VR 5 P6203-5
MON CH2 (H) 6 P6203-6
MON CH1 (H) 7 P6203-7
N/H OUT AUTO (H) 8 P6203-8
MON NOR (H) 9 P6203-9
GND 10 P6203-10
P976 (TO FRONT JACK/MIC)
CH1 PHONE 1 P4901-1
PHONE GND 2 P4901-2
CH2 PHONE 3 P4901-3
PHONE GND 4 P4901-4
CH2 MIC (L) 5 P4301-1
CH1 MIC (L) 6 P4301-2
CH1 MIC 7 P4301-3
MIC GND 8 P4301-4
CH2 MIC 9 P4301-5
MIC GND 10 P4301-6
A12V 11 P4301-7
ANALOG 12V
4
5
6
7
8
9
10
11
12

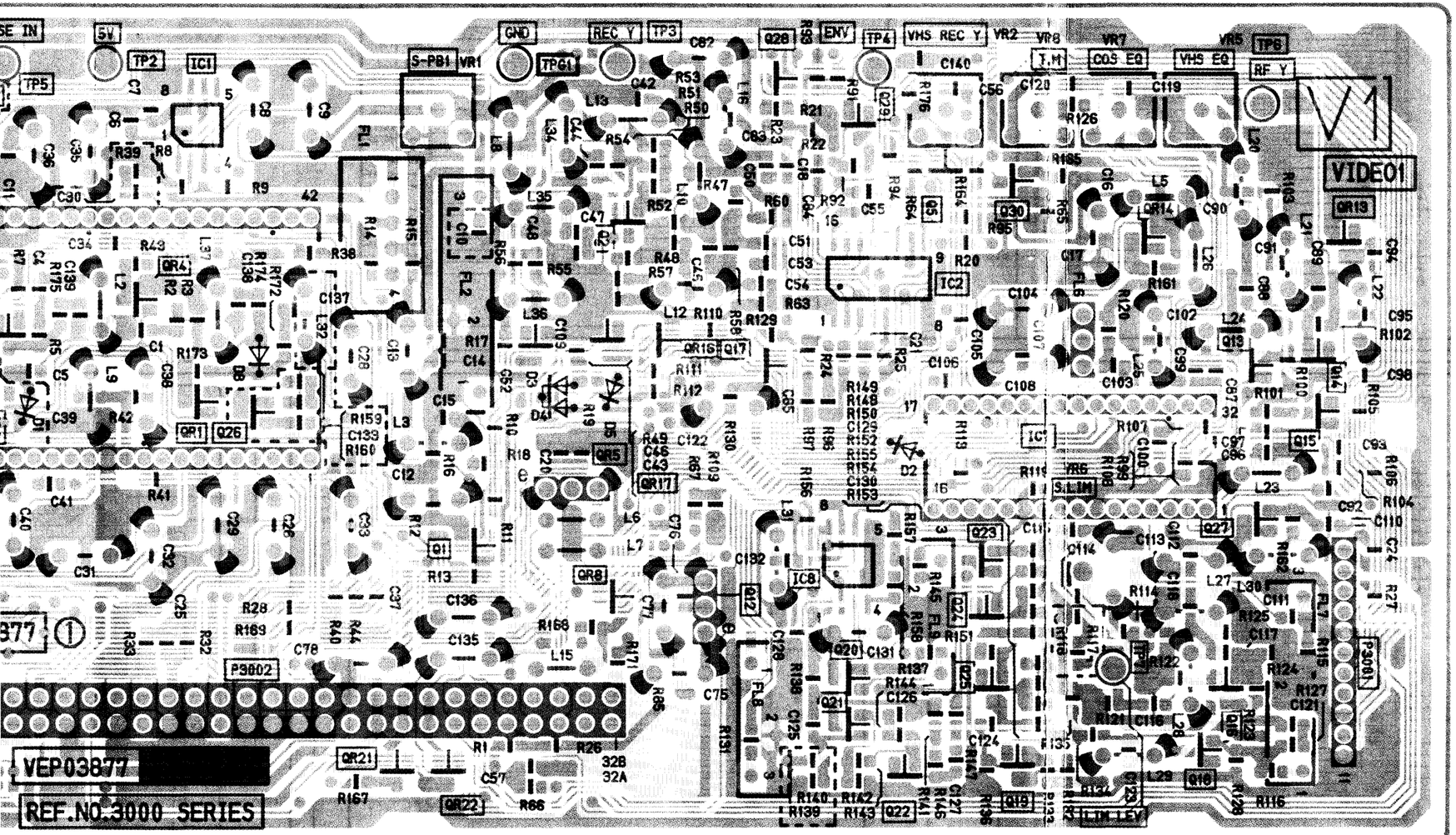
VIDEO (1) C.B.A. (VEP03877A: AG-7350/VEP03877B: AG-7150)

VIDEO (1) C.B.A. (VEP03877A:AG-7350/VEP03877B:AG-7150)



AG-7150)

03877B:AG-7150)

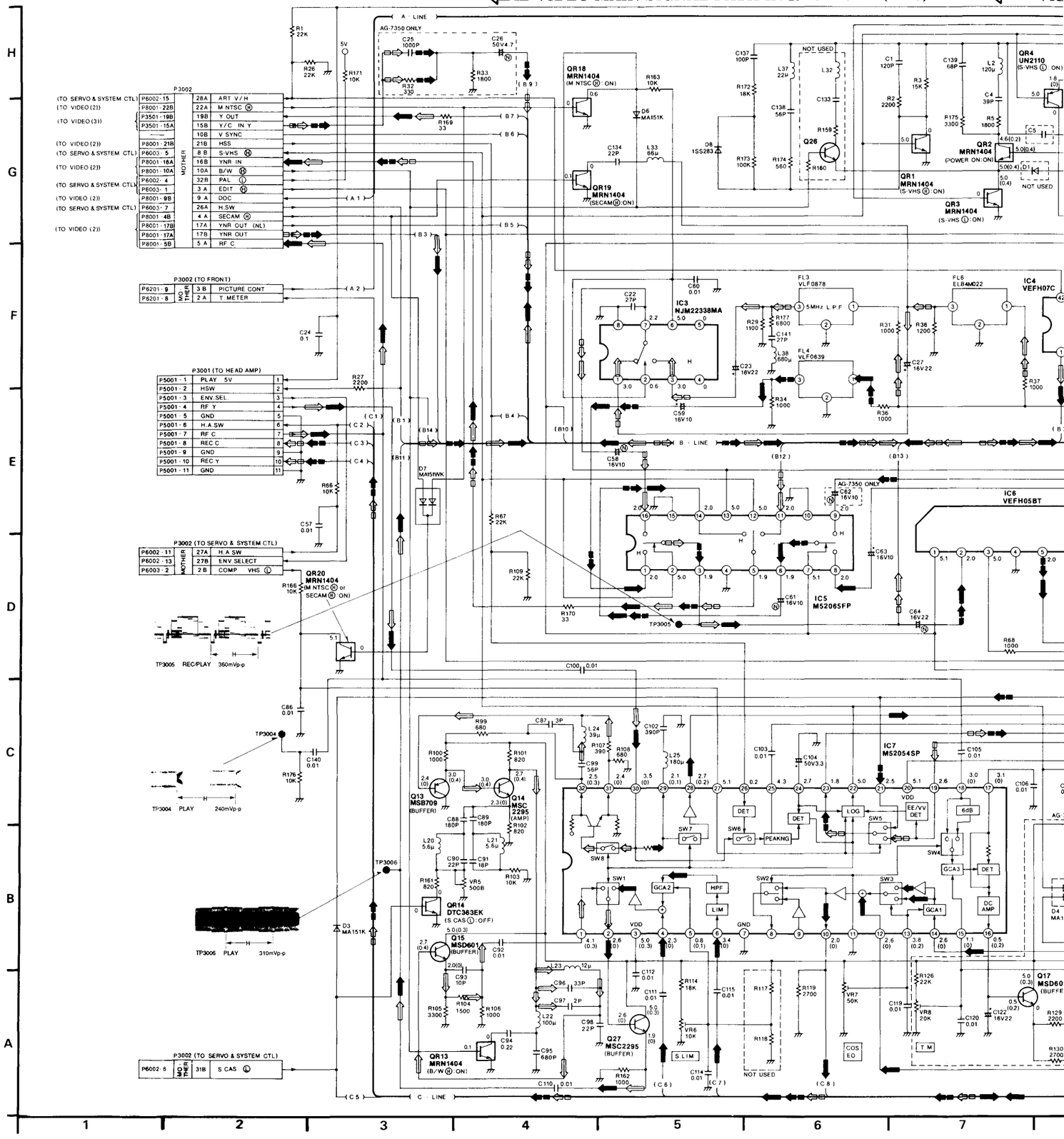


VIDEO (1) C.B.A.			
Transistor		QR3015	A-2
Q3001	A-3	QR3016	B-4
Q3002	B-4	QR3017	B-4
Q3005	B-4	QR3018	A-1
Q3006	B-2	QR3019	A-2
Q3007	B-2	QR3020	A-2
Q3008	B-2	QR3021	A-3
Q3009	B-2	QR3022	A-3
Q3010	B-2	**Integrated Circuit**	
Q3011	B-1	IC3001	B-3
Q3012	A-4	IC3002	B-4
Q3013	B-5	IC3003	A-1
Q3014	B-5	IC3004	B-2
Q3015	B-5	IC3005	A-1
Q3016	A-5	IC3006	B-2
Q3017	B-4	IC3007	B-5
Q3018	A-5	IC3008	A-4
Q3019	A-5	**Test Point**	
Q3020	A-4	TP3001	A-2
Q3021	A-4	TP3002	B-3
Q3022	A-4	TP3003	B-4
Q3023	A-5	TP3004	B-4
Q3024	A-4	TP3005	B-2
Q3025	A-5	TP3006	B-5
Q3026	B-3	TP3007	A-5
Q3027	A-5	TPG3001	B-4
Q3028	B-4	**Adjustment**	
Q3029	B-4	VR3001	B-3
Q3030	B-5	VR3002	B-5
Transistor & Resistor		VR3003	B-2
QR3001	B-3	VR3004	B-1
QR3002	B-2	VR3005	B-5
QR3003	B-2	VR3006	A-5
QR3004	B-3	VR3007	B-5
QR3005	B-4	VR3008	B-5
QR3006	B-2	**Connector**	
QR3007	B-1	P3001	A-5
QR3008	A-4	P3002	A-3
QR3010	B-1		
QR3011	B-1		
QR3012	B-1		
QR3013	B-5		
QR3014	B-5		

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

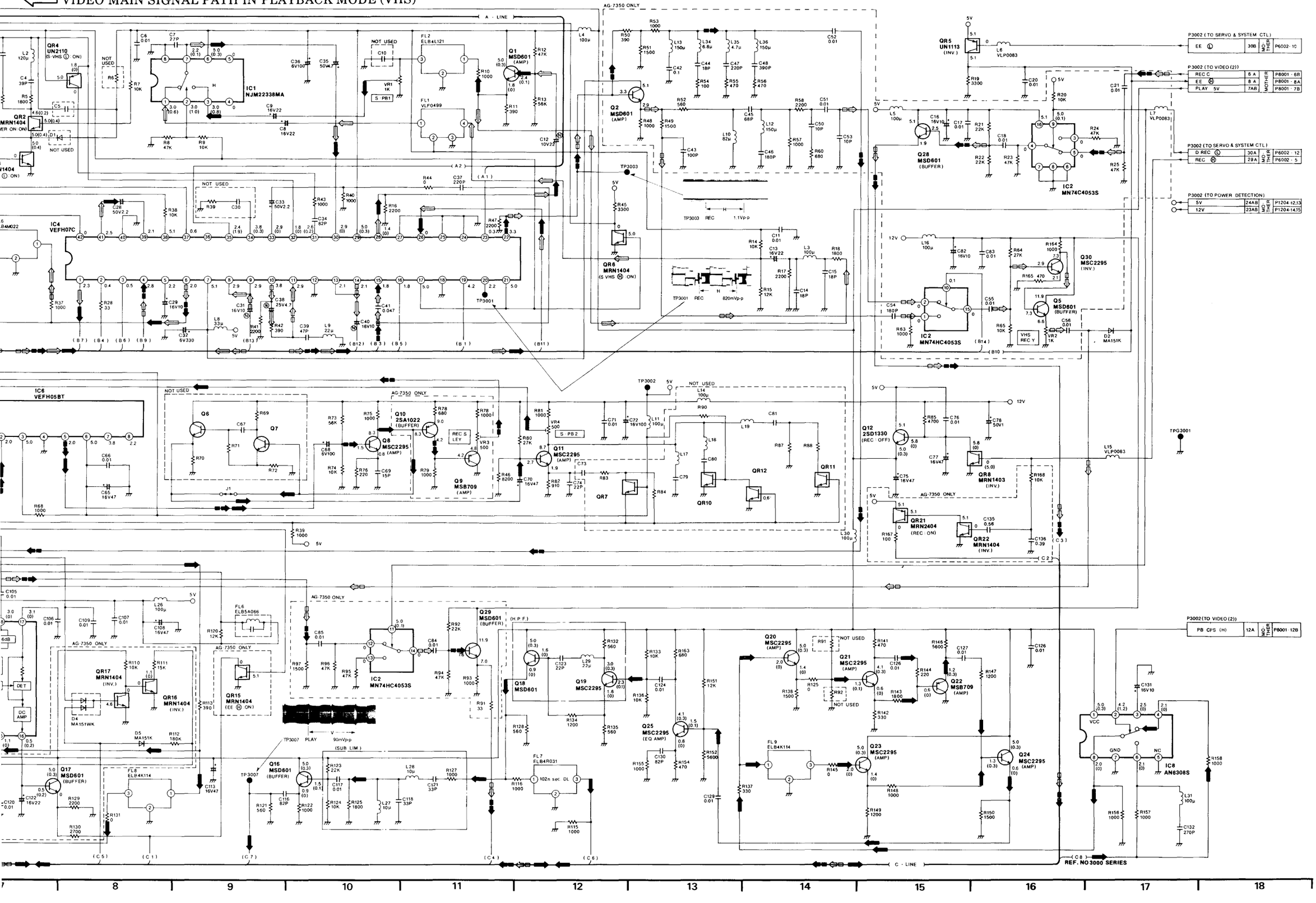
VIDEO (1) SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS)
VIDEO MAIN SIGNAL PATH IN REC MODE (VHS)



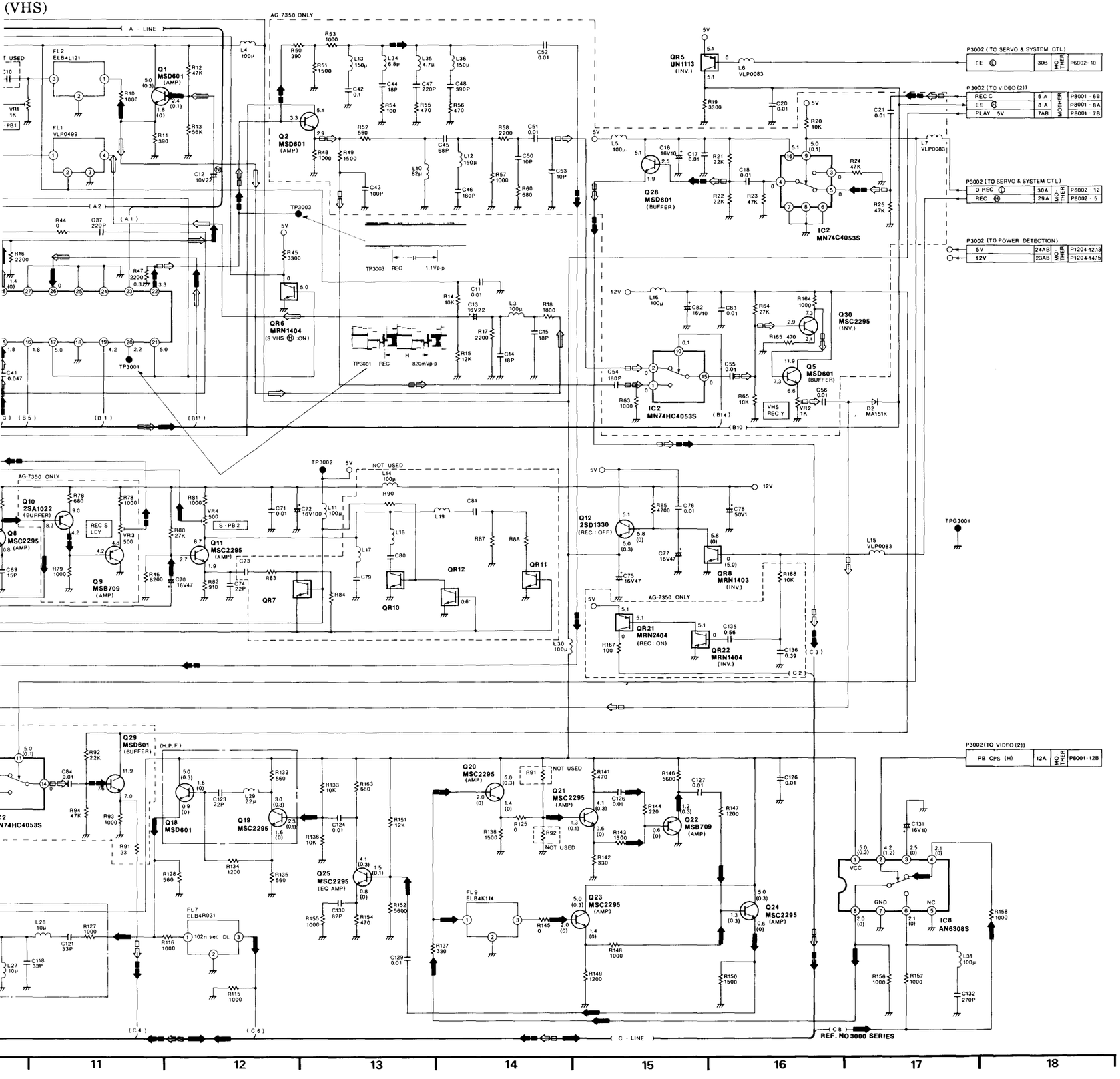
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS)

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)

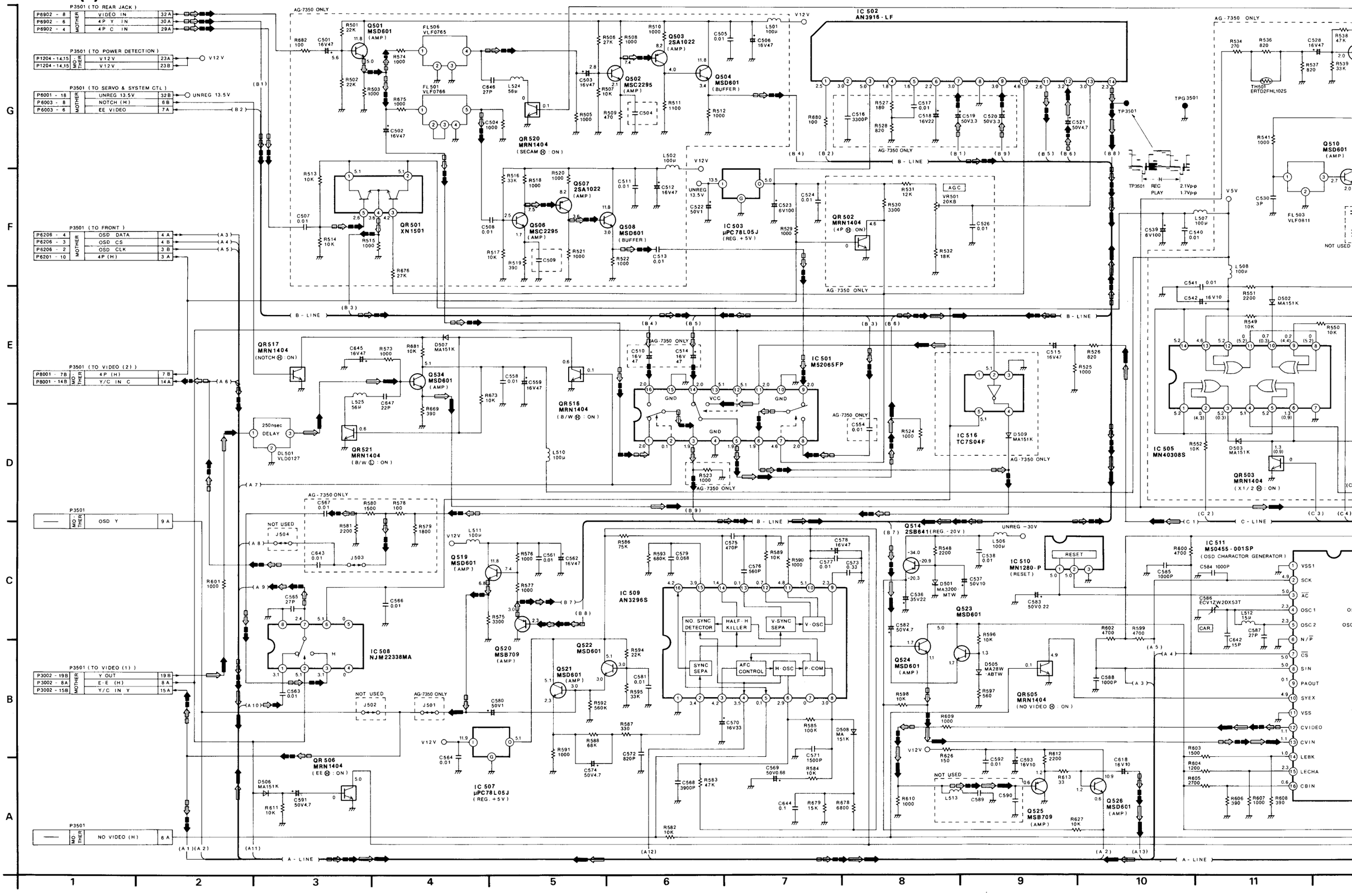


7	8	9	10	11	12	13	14	15	16	17	18

(S-VHS)
(VHS)


AG-7350 ONLY
A - LINE
FL2 ELB4L121
FL1 VLF0499
Q1 MSD601 (AMP)
Q2 MSD601 (AMP)
Q28 MSD601 (BUFFER)
QR5 UN1113 (INV.)
L6 VLP0083
L7 VLP0083
IC2 MN74C4053S
P3002 (TO SERVO & SYSTEM CTL)
EE
P3002 (TO VIDEO (2))
REC C
EE
PLAY 5V
P3002 (TO SERVO & SYSTEM CTL)
D REC
REC
P3002 (TO POWER DETECTION)
5V
12V
TP3003
TP3003 REC 1.1Vp-p
QR6 MRN1404 (S VHS ON)
TP3001
TP3001 REC 820mVp-p
Q30 MSC2295 (INV.)
Q5 MSD601 (BUFFER)
VHS REC Y
D2 MA151K
TP3002
NOT USED
Q10 2SA1022 (BUFFER)
Q8 MSC2295 (AMP)
Q9 MSB709 (AMP)
REC S LEY
Q11 MSC2295 (AMP)
S-PB2
QR7
QR10
QR12
QR11
Q12 2SD1330 (REC-OFF)
QR8 MRN1403 (INV.)
TPG3001
L15 VLP0083
QR21 MRN2404 (REC ON)
QR22 MRN1404 (INV.)
L30 100µ
Q29 MSD601 (BUFFER)
(H.P.F)
Q18 MSD601
Q19 MSC2295
Q25 MSC2295 (EQ AMP)
FL7 EL84R031
102n sec DL
Q20 MSC2295 (AMP)
Q21 MSC2295 (AMP)
Q22 MSB709 (AMP)
FL9 EL84K114
Q23 MSC2295 (AMP)
Q24 MSC2295 (AMP)
P3002(TO VIDEO(2))
PB CPS (H)
IC8 AN6308S
VCC
GND
NC
REF. NO 3000 SERIES
C LINE

VIDEO (3) SCHEMATIC DIAGRAM



AG-7350 ONLY

C - LINE

IC 504
BA7021

IC 505
MN40308S

IC 511
M50455-001SP
(OSD CHARACTOR GENERATOR)

IC 512
μPC78L05J
(REG. +5V)

IC 513
μPD40668G

IC 514
BA7607F

IC 515
AN3581S

Q509 MSD601 (AMP)
Q510 MSD601 (AMP)
Q511 MSB709 (AMP)
Q512 MSD601 (AMP)
Q513 MSB709 (AMP)
Q515 MSC2295 (AMP)
Q516 2SA1022 (AMP)
Q517 MSB709 (BUFFER)
Q527 MSD601 (INV.)
Q528 MSD601 (INV.)
Q529 MSD601 (BUFFER)
Q530 MSD601 (AMP)
Q531 MSC2295 (AMP)
Q532 2SA1022 (AMP)
Q533 MSB709 (BUFFER)
Q535 MSD601

QR503 MRN1404 (X1/2 ⊗ : ON)
QR504 MRN1404 (S-VHS ⊗ : ON)
QR507 MRN1402 (B/W ⊗ : ON)
QR508 MRN1404 (INV.)
QR509 MRN1404 (NO VIDEO ⊗ : ON)
QR510 MRN1404 (B/W ⊗ : ON)
QR511 MRN1404 (EE ⊗ & OSD ON Ⓛ : OFF)
QR512 MRN1404 (SECAM ⊗ : ON)
QR513 XN1213
QR514 MRN1404 (SECAM ⊗ : ON)
QR515 MRN1404 (EE ⊗ : ON)

TP3501 REC PLAY 2.1Vp-p 1.7Vp-p
TP3502 REC PLAY 2.0Vp-p 1.6Vp-p
TP3503 REC PLAY 2.1Vp-p 1.7Vp-p
TP3504

P3501 (TO REAR JACK)

26A	4P Y OUT	MOTHER	P6901 - 1
27A	VIDEO OUT 1		P6901 - 3
25A	4P C OUT		P6902 - 10
28A	VIDEO OUT 2		P6901 - 4

P3501 (TO SERVO & SYSTEM CTL)

16B	ROTARY SW	MOTHER	P6002 - 2
26B	H. SW		P6003 - 7
8B	S-VHS (H)		P6003 - 5
27B	X1/2 (H)		P6002 - 17
17B	SLOW (L)		P6003 - 9

P3501 (TO POWER DETECTION)

24A	V 5V	MOTHER	P1204 - 12,13
24B	V 5V		P1204 - 12,13
22A	UNREG -30V		P1204 - 4

P3501 (TO VIDEO (2))

18B	C OUT	MOTHER	P8001 - 18A
10A	B/W (H)		P3002 - 10A

P3501

16A	Y PB 1	MOTHER	
19A	Y PB 2		
17A	C PB 1		
20A	C PB 2		
18A	CONNECT (L)		

P3501 (TO FRONT)

5A	OSD ON (L)	MOTHER	P6202 - 2

P3501 (TO VIDEO (1))

2B	SECAM (H)	MOTHER	P3003 - 4A

P1

1	1H OUT
2	0H IN
3	GND
4	A 5V
5	C.K
6	A 12V

CCD PACK C.B.A. (VEP00R78B)

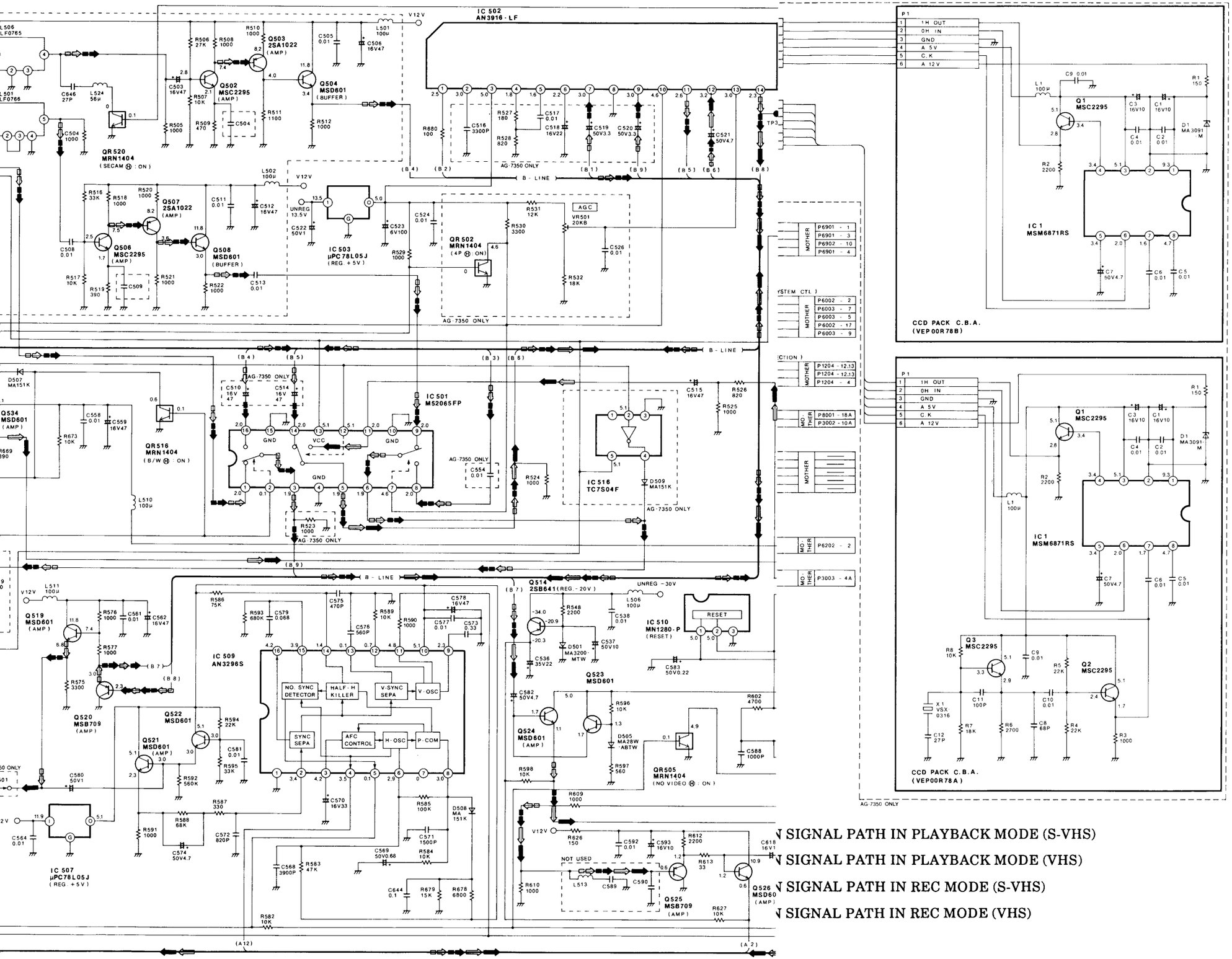
CCD PACK C.B.A. (VEP00R78A)

AG-7350 ONLY

VIDEO MAIN SIGNAL PATH IN PLAYBACK MOD
VIDEO MAIN SIGNAL PATH IN PLAYBACK MOD
VIDEO MAIN SIGNAL PATH IN REC MODE (S-VH
VIDEO MAIN SIGNAL PATH IN REC MODE (VHS

REF. NO. 3000 SERIES

10 11 12 13 14 15 16 17 18 19 20 21 22



VIDEO (3) C.B.A.

Transistor			
Q3501	A-7	©	
Q3502	A-5	Ⓕ	
Q3503	A-5	Ⓕ	
Q3504	A-6	©	
Q3506	A-5	Ⓕ	
Q3507	A-5	Ⓕ	
Q3508	A-7	©	
Q3509	A-1	Ⓕ	
Q3510	B-2	Ⓕ	
Q3511	B-2	Ⓕ	
Q3511	B-7	©	
Q3512	C-1	Ⓕ	
Q3513	C-2	Ⓕ	
Q3514	A-3	Ⓕ	
Q3514	A-8	©	
Q3515	B-2	Ⓕ	
Q3516	B-3	Ⓕ	
Q3517	B-2	Ⓕ	
Q3519	B-5	Ⓕ	
Q3520	B-7	©	
Q3521	B-5	Ⓕ	
Q3522	B-6	©	
Q3523	B-5	Ⓕ	
Q3524	B-5	Ⓕ	
Q3525	B-4	Ⓕ	
Q3526	A-4	Ⓕ	
Q3527	B-4	Ⓕ	
Q3528	B-4	Ⓕ	
Q3529	B-4	Ⓕ	
Q3531	A-8	©	
Q3532	B-8	©	
Q3533	B-4	Ⓕ	
Q3534	A-2	Ⓕ	

Transistor & Resistor		
QR3501	A-7	©
QR3502	B-5	Ⓕ
QR3503	A-4	Ⓕ
QR3504	A-2	Ⓕ
QR3505	B-7	©
QR3506	B-4	Ⓕ
QR3507	B-8	©
QR3508	B-3	Ⓕ
QR3509	A-4	Ⓕ
QR3510	B-8	©
QR3511	A-2	Ⓕ
QR3512	A-10	©
QR3513	A-2	Ⓕ
QR3514	A-2	Ⓕ
QR3515	A-2	Ⓕ
QR3516	A-2	Ⓕ
QR3517	A-2	Ⓕ
QR3520	A-5	Ⓕ
QR3521	A-10	©
QR3530	B-3	Ⓕ
QR3535	B-3	Ⓕ

Integrated Circuit		
IC3501	A-6	©
IC3502	B-5	Ⓕ
IC3502	B-6	©
IC3503	A-4	Ⓕ
IC3503	A-8	©
IC3504	C-2	Ⓕ
IC3504	C-9	©
IC3505	A-10	©
IC3507	C-5	Ⓕ
IC3507	C-7	©
IC3508	A-5	Ⓕ
IC3509	B-7	©
IC3510	C-4	Ⓕ
IC3510	C-7	©
IC3511	B-4	Ⓕ
IC3512	C-4	Ⓕ
IC3512	C-8	©
IC3513	B-8	©
IC3514	B-9	©
IC3515	B-8	©
IC3516	A-5	Ⓕ

Test Point		
TP3501	B-5	Ⓕ
TP3501	B-7	©
TP3502	C-3	Ⓕ
TP3502	C-9	©
TP3503	C-3	Ⓕ
TP3503	C-9	©
TP3504	C-3	Ⓕ
TP3504	C-9	©
TPG3501	C-2	Ⓕ

Adjustment		
C3586	B-4	Ⓕ
C3586	B-7	©
VR3501	B-5	Ⓕ
VR3501	C-6	©
VR3502	B-2	Ⓕ
VR3502	C-10	©
VR3503	C-2	Ⓕ
VR3503	C-9	©

Connector		
P3501	A-3	Ⓕ
P3501	A-9	©

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

CCD PACK (1) C.B.A.	
Transistor	
Q1	C-1
Q2	C-1
Q3	C-1
Integrated Circuit	
IC1	C-1
Connector	
P1	C-1

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

CCD PACK (2) C.B.A.	
Transistor	
Q1	C-2
Q2	C-2
Q3	C-2
Integrated Circuit	
IC1	C-2
Connector	
P1	C-2

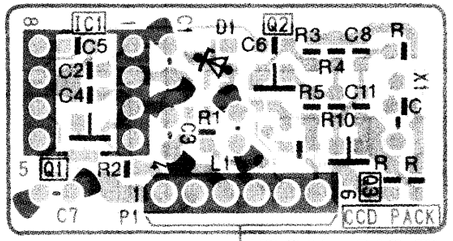
ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

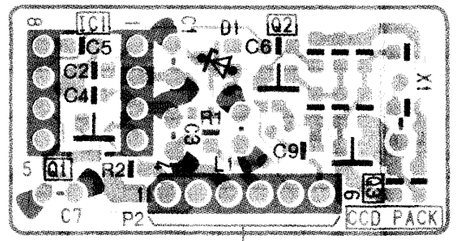
V SIGNAL PATH IN PLAYBACK MODE (S-VHS)

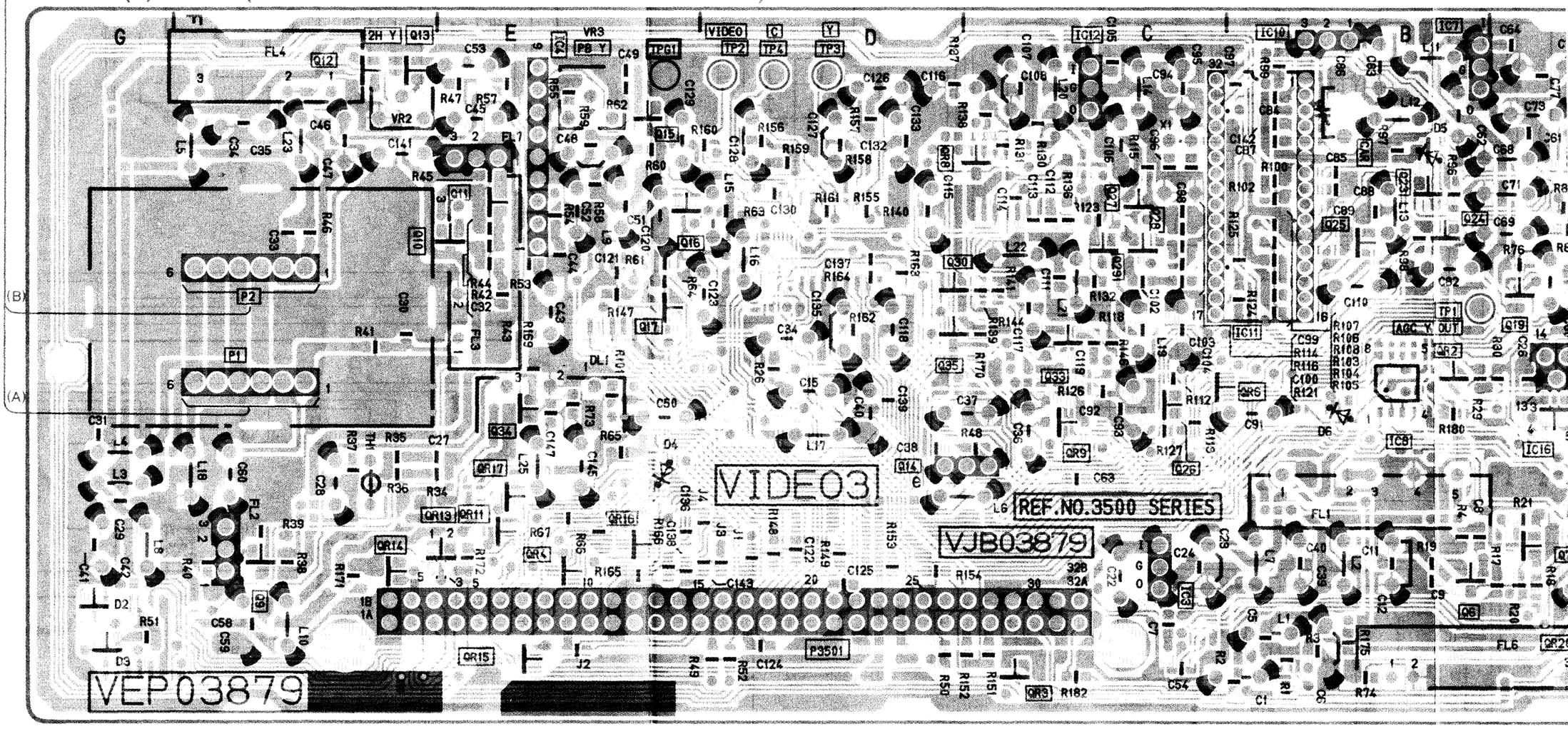
V SIGNAL PATH IN PLAYBACK MODE (VHS)

V SIGNAL PATH IN REC MODE (S-VHS)

V SIGNAL PATH IN REC MODE (VHS)

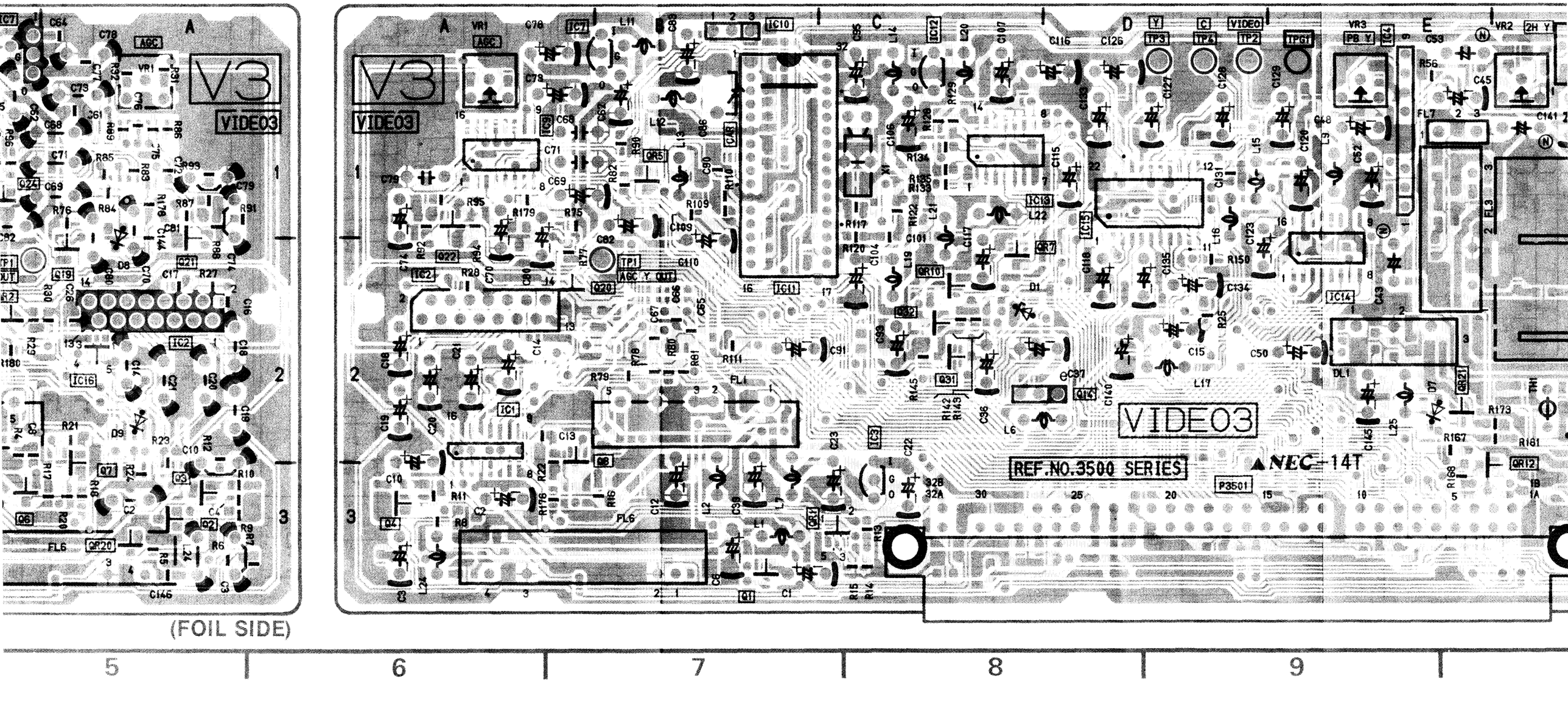


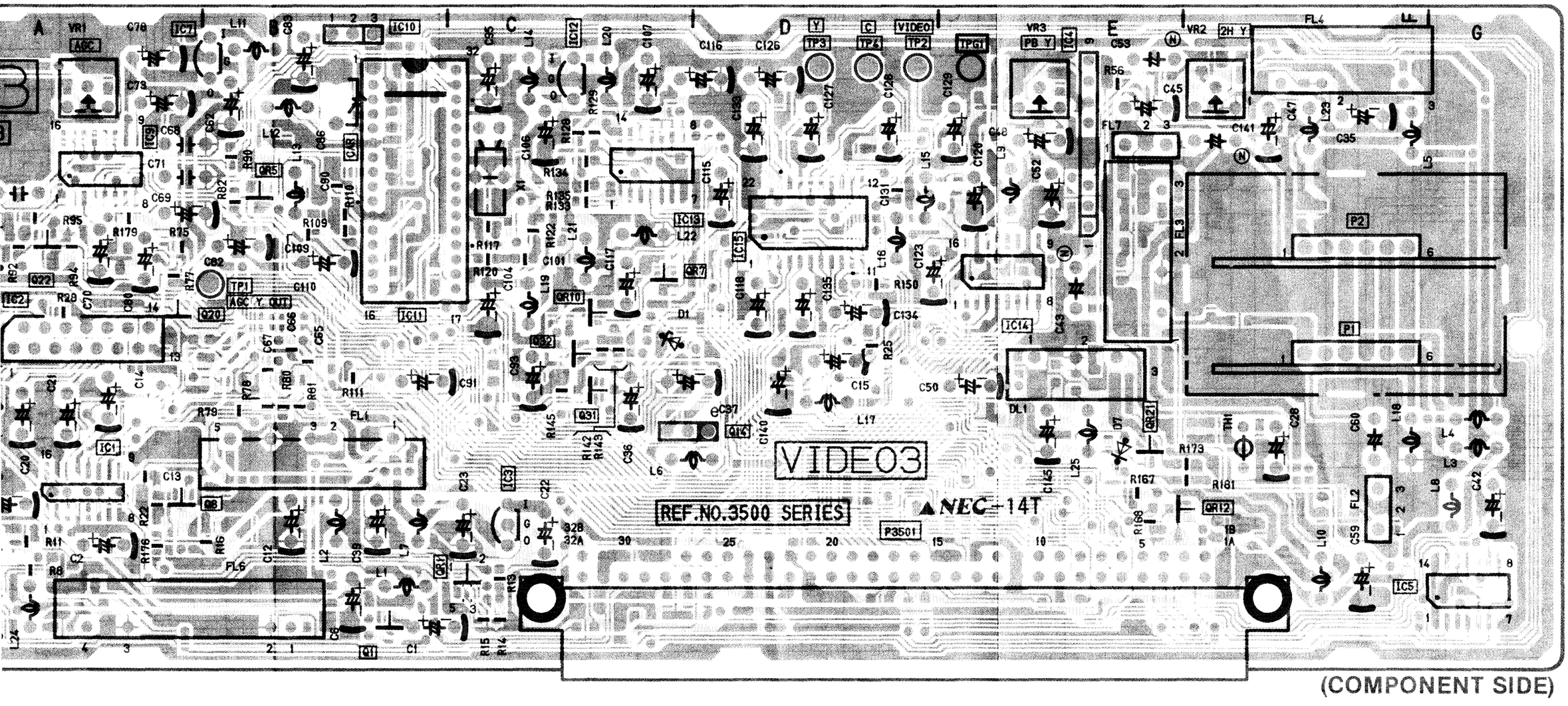




VIDEO (3) C.B.A. (VEP03879A: AG-7350/VEP03879B: AG-7150), CCD PACK (1) C.B.A. (VEP00R78A) AND CCD PACK (2) C.B.A. (VEP00R78

VEP00R78B)




VIDEO3
REF.NO.3500 SERIES
▲NEC-14T
P3501
(COMPONENT SIDE)
A
B
C
D
E
F
G
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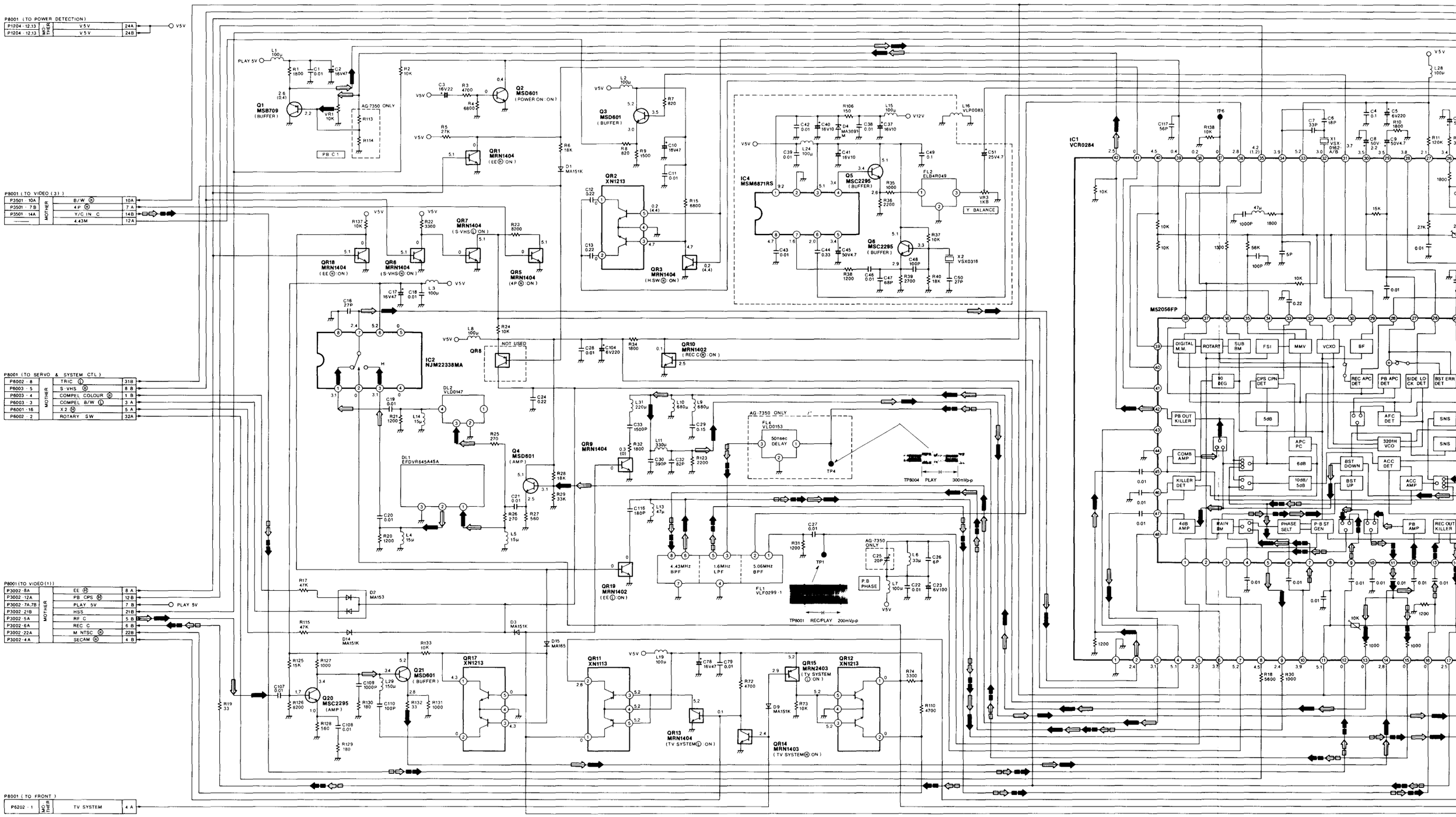
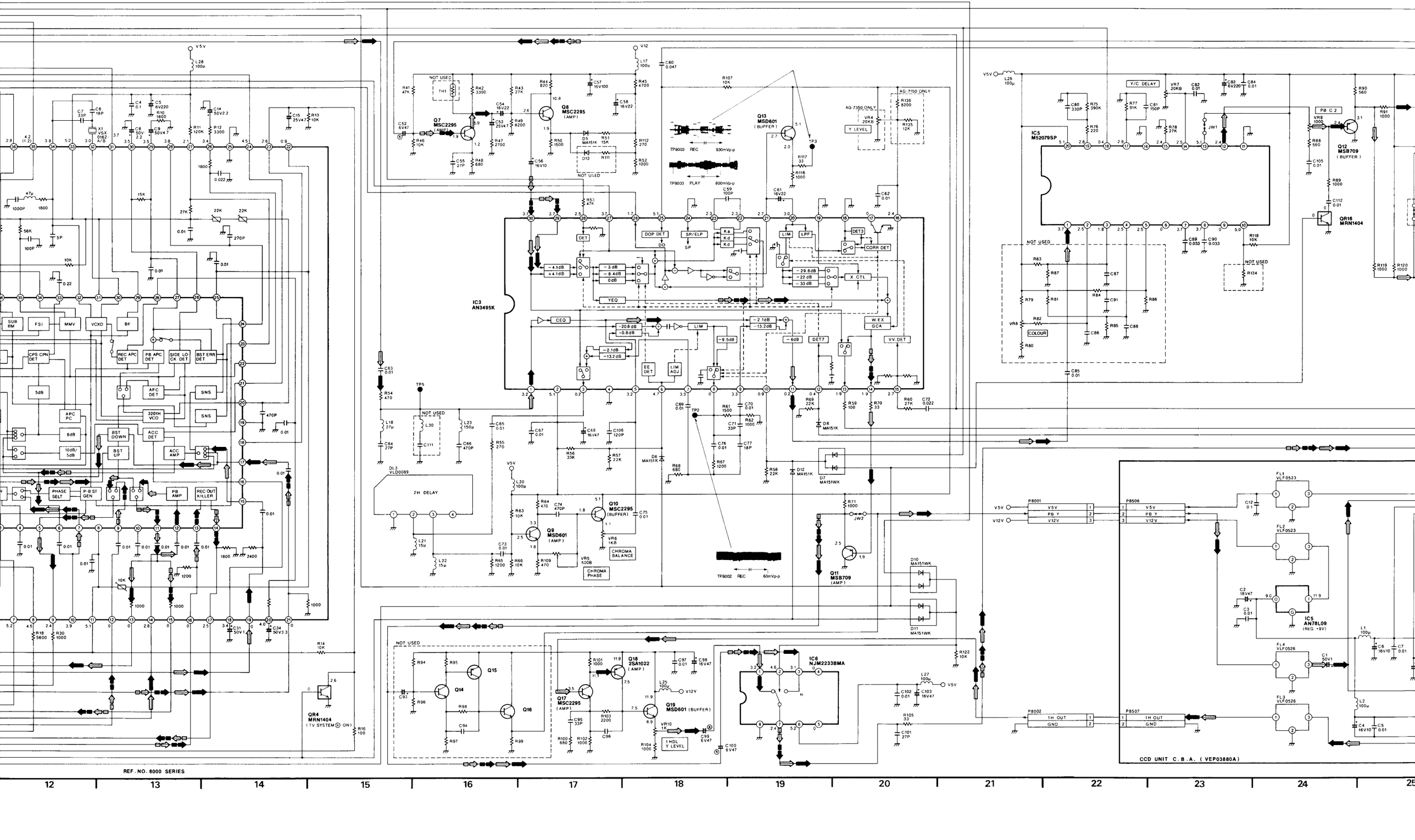
VIDEO (2) SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE (S-VHS) VIDEO MAIN SIGNAL PATH IN REC MODE (VHS) VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (S-VHS) VIDEO MAI

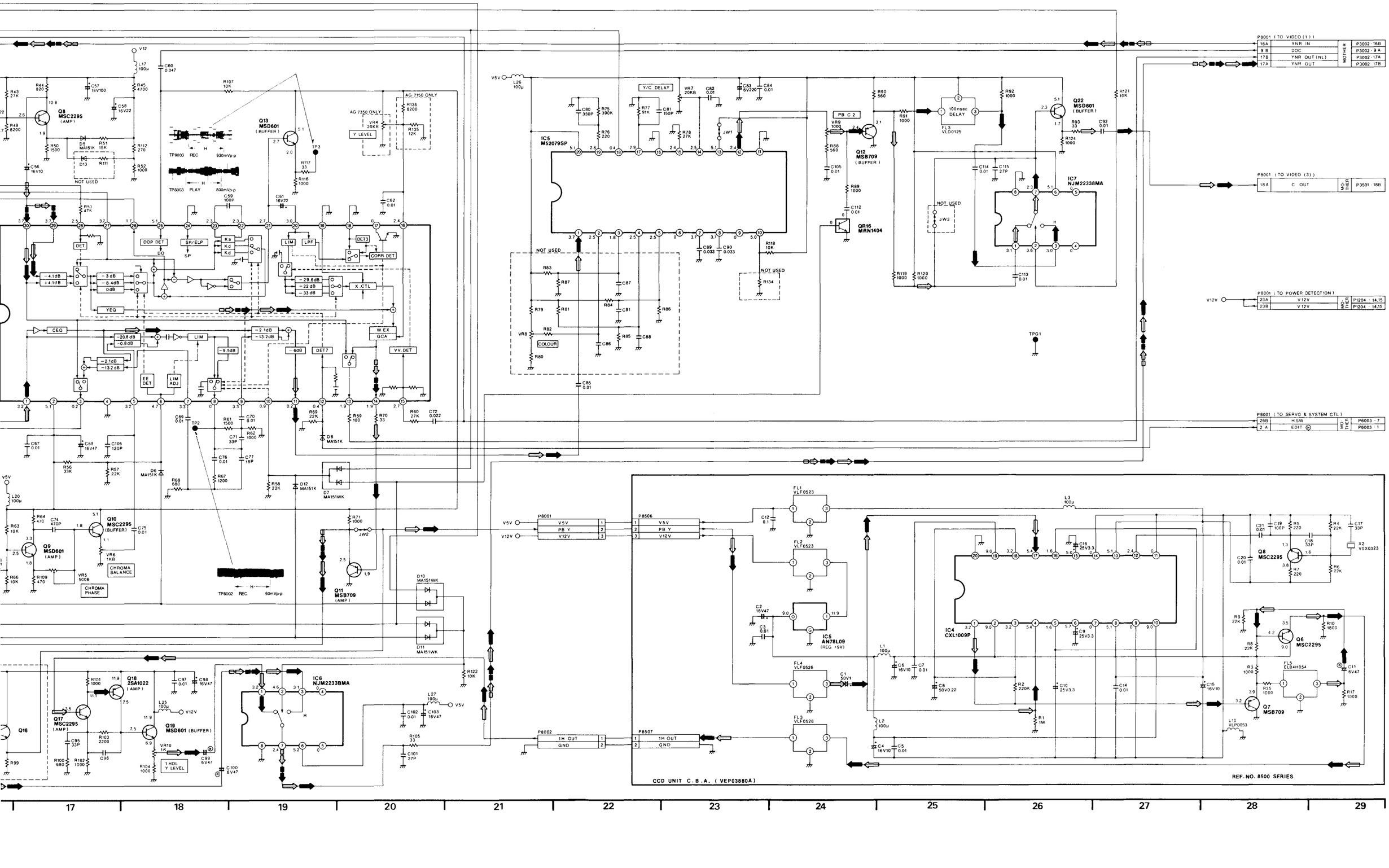


DE (S-VHS)

⇦ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE (VHS)



12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25

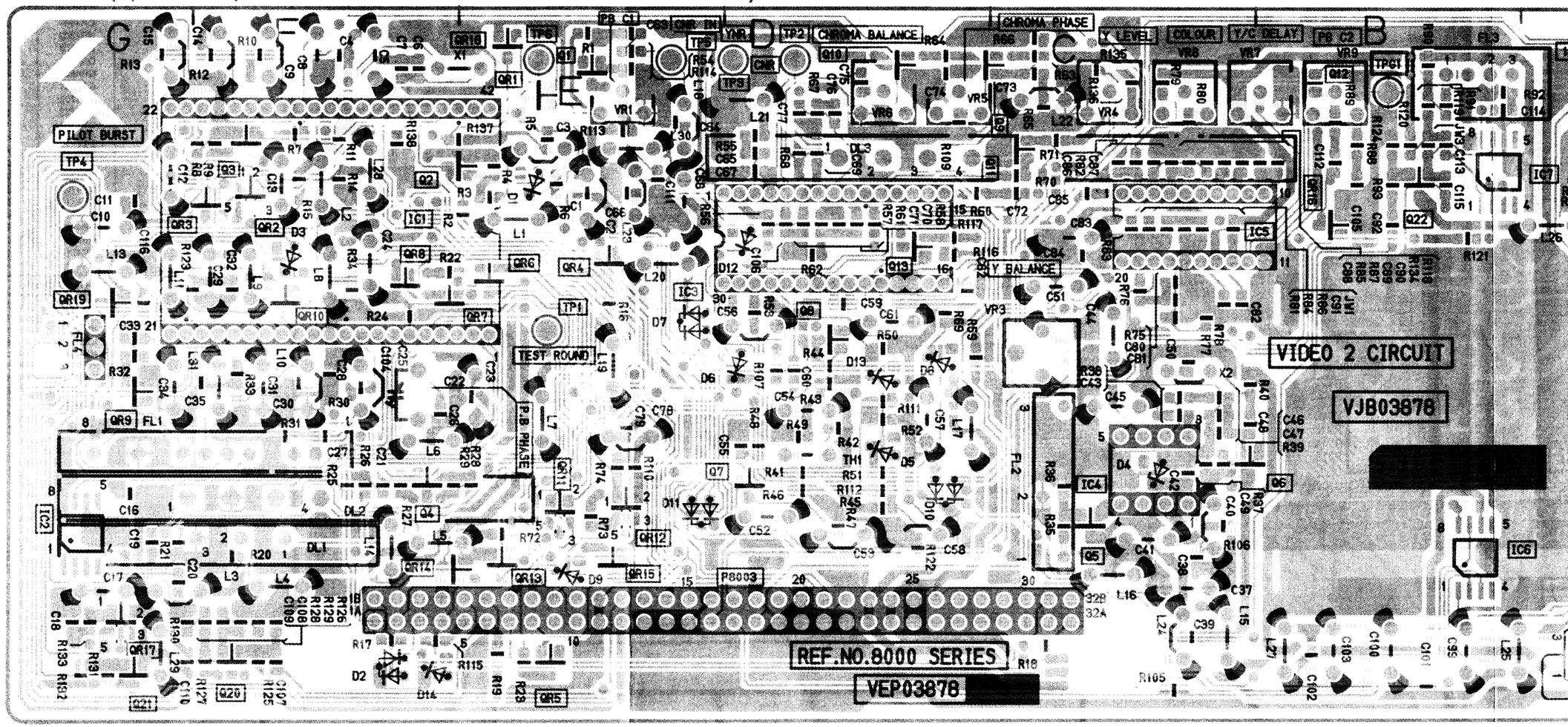

P8001 (TO VIDEO (1))
16A YNR IN
9B DOC
17B YNR OUT (NL)
17A YNR OUT
MOTHER
P3002 · 16B
P3002 · 9A
P3002 · 17A
P3002 · 17B
P8001 (TO VIDEO (3))
18A C OUT
MOTHER
P3501 · 18B
P8001 (TO POWER DETECTION)
23A V12V
23B V12V
MOTHER
P1204 · 14,15
P1204 · 14,15
P8001 (TO SERVO & SYSTEM CTL)
26B HSW
2A EDIT
MOTHER
P6003 · 7
P6003 · 1
IC5 M52079SP
IC7 NJM22338MA
IC4 CXL1009P
IC5 AN78L09 (REG +9V)
IC6 NJM2233BMA
Q8 MSC2295 (AMP)
Q10 MSC2295 (BUFFER)
Q9 MSD601 (AMP)
Q11 MSB709 (AMP)
Q13 MSD601 (BUFFER)
Q12 MSB709 (BUFFER)
Q22 MSD601 (BUFFER)
Q18 2SA1022 (AMP)
Q17 MSC2295 (AMP)
Q19 MSD601 (BUFFER)
Q16
Q8 MSC2295
Q6 MSC2295
Q7 MSB709
QR16 MRN1404
DET
DOP DET
SP/ELP
LIM
LPF
DET3
CORR DET
X CTL
YEQ
CEQ
W.EX
GCA
VV DET
DET7
EE DET
LIM ADJ
Y/C DELAY
PB C 2
100nsec DELAY
FL3 VLD0125
NOT USED
JW3
CHROMA BALANCE
CHROMA PHASE
Y LEVEL
COLOUR
AG-7150 ONLY
AG-7350 ONLY
Y LEVEL
TP8003 REC 930mVp-p
TP8003 PLAY 800mVp-p
TP8002 REC 60mVp-p
P8001 V5V PB Y V12V
P8002 1H OUT GND
P8506 V5V PB Y V12V
P8507 1H OUT GND
TPG1
CCD UNIT C.B.A. (VEP03880A)
REF.NO. 8500 SERIES
17 18 19 20 21 22 23 24 25 26 27 28 29

VIDEO (2) C.B.A. (VEP03878A: AG-7350/VEP03878B: AG-7150) AND CCD UNIT C.B.A. (VEP03880A)

VIDEO (2) C.B.A.	
Transistor	
Q3011	B-3
Q8001	B-2
Q8002	B-2
Q8003	B-1
Q8004	A-2
Q8005	A-4
Q8006	A-4
Q8007	A-3
Q8008	B-3
Q8009	B-3
Q8010	B-3
Q8012	B-4
Q8013	B-3
Q8014	A-5
Q8015	A-5
Q8016	A-5
Q8017	B-5
Q8018	B-6
Q8019	B-5
Q8020	A-1
Q8021	A-1
Q8022	B-5
Transistor & Resistor	
QR8001	B-2
QR8002	B-1
QR8003	B-1
QR8004	B-2
QR8005	A-2
QR8006	B-2
QR8007	B-2
QR8008	B-2
QR8009	B-1
QR8010	B-2
QR8011	A-2
QR8012	A-2
QR8013	A-2
QR8014	A-2
QR8015	A-2
QR8016	B-4
QR8017	A-1
QR8018	B-2
QR8019	B-1
Integrated Circuit	
IC8001	B-2
IC8002	A-1
IC8003	B-3
IC8004	A-4
IC8005	B-4
IC8006	A-5
IC8007	B-5
Test Point	
TP8001	B-2
TP8002	B-3
TP8003	B-3
TP8004	B-1
TP8005	B-3
TP8006	B-2
TPG8001	B-5
Adjustment	
C8025	B-2
VR8001	B-2
VR8003	B-3
VR8004	B-4
VR8005	B-3
VR8006	B-3
VR8007	B-4
VR8008	B-4
VR8009	B-4
VR8010	B-5
Connector	
P8001	A-5
P8002	B-5
P8003	A-3

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

VIDEO (2) C.B.A. (VEP03878A:AG-7350/VEP03878B:AG-7150)

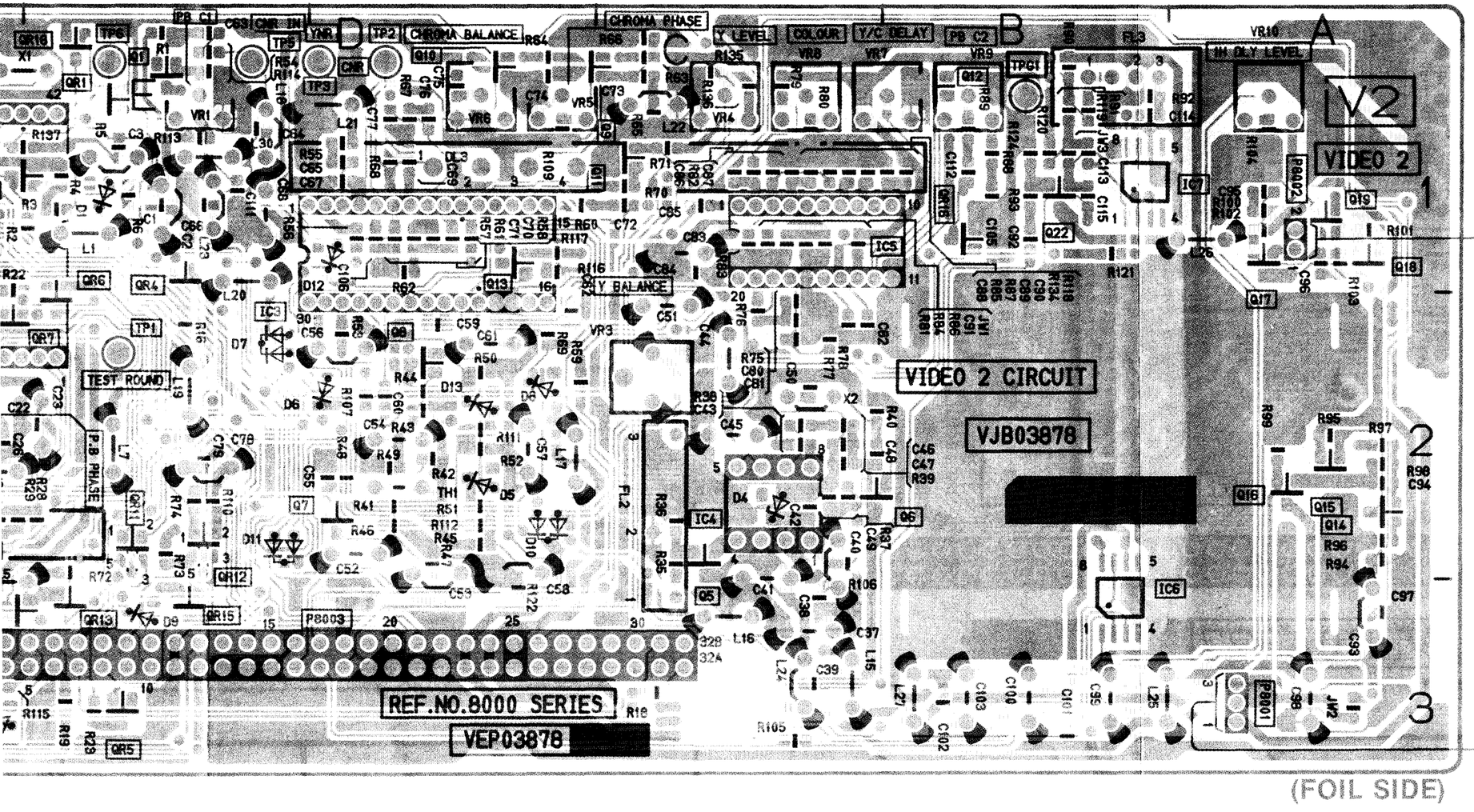


P03878B: AG-7150) AND CCD UNIT C.B.A. (VEP03880A)

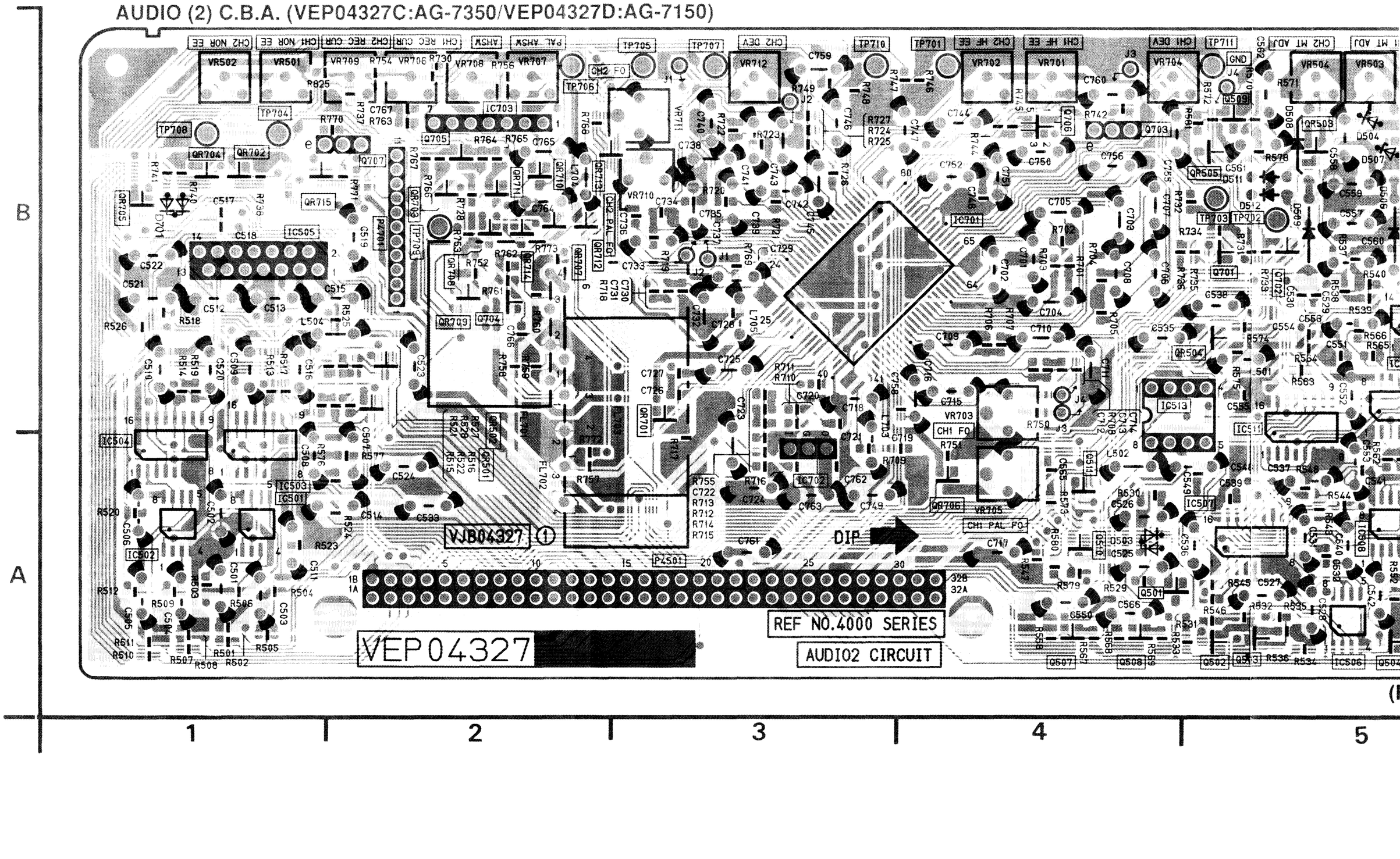
CCD UNIT	
Transistor	
Q8506 Q8507 Q8508	A-6 B-6 A-6
Integrated Circuit	
IC8504 IC8505	A-6 A-6
Connector	
P8507 P8506	B-6 A-6

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

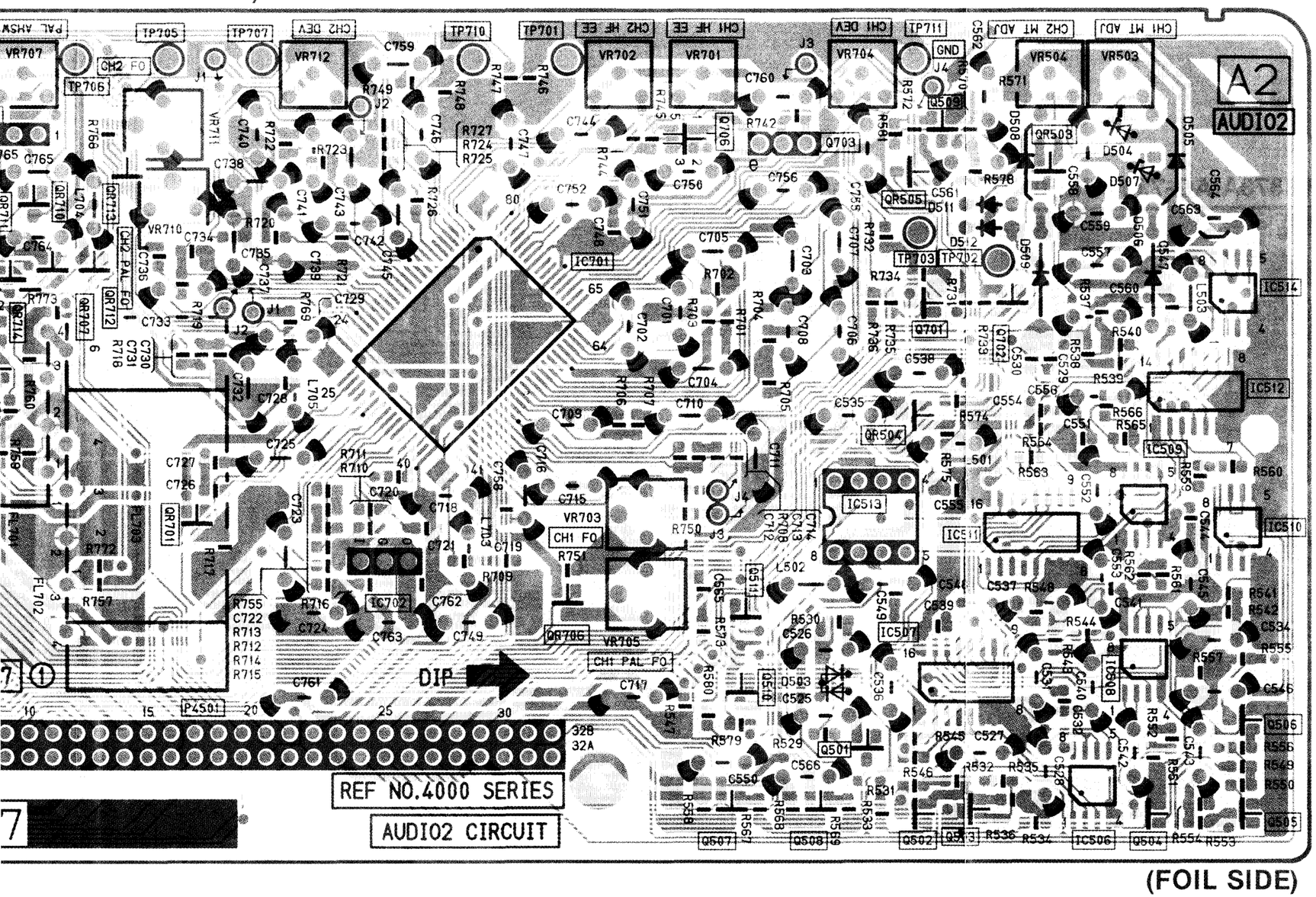
7350/VEP03878B:AG-7150)



AUDIO (2) C.B.A. (VEP04327C: AG-7350/VEP04327D: AG-7150)



EP04327D:AG-7150)



(FOIL SIDE)

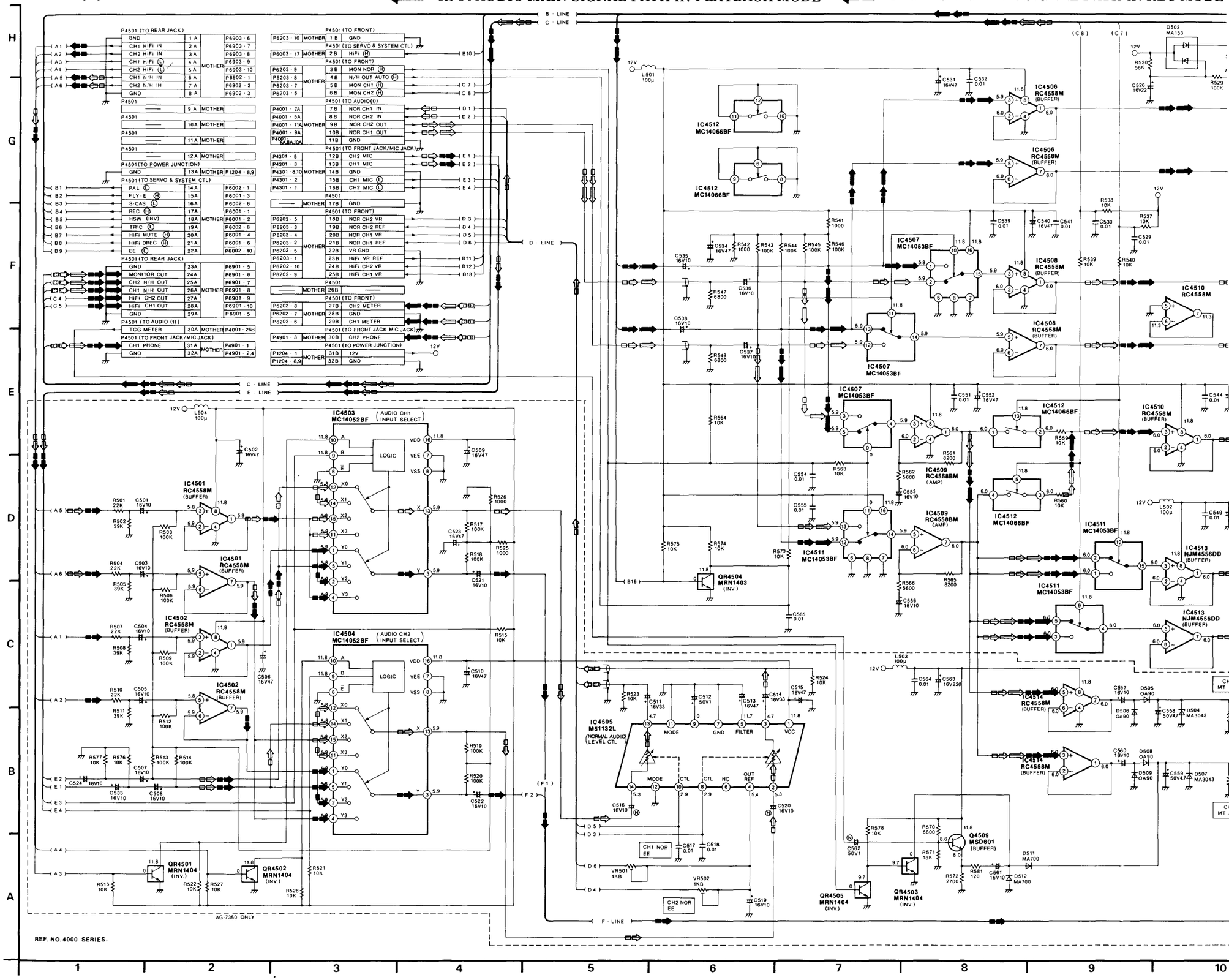
AUDIO (2) C.B.A.		
Transistor & Resistor		
Q4501	A-4	Ⓕ
Q4502	A-5	Ⓕ
Q4503	A-5	Ⓕ
Q4504	A-5	Ⓕ
Q4505	A-5	Ⓕ
Q4506	A-5	Ⓕ
Q4507	A-4	Ⓕ
Q4508	A-4	Ⓕ
Q4509	B-5	Ⓕ
Q4510	A-4	Ⓕ
Q4511	A-4	Ⓕ
Q4701	B-5	Ⓕ
Q4702	B-5	Ⓕ
Q4703	B-4	Ⓕ
Q4704	B-2	Ⓕ
Q4705	B-2	Ⓕ
Q4706	B-4	Ⓕ
Q4707	B-2	Ⓕ
Transistor & Resistor		
QR4501	A-2	Ⓕ
QR4502	A-2	Ⓕ
QR4503	B-5	Ⓕ
QR4504	B-5	Ⓕ
QR4505	B-5	Ⓕ
QR4701	B-3	Ⓕ
QR4702	B-1	Ⓕ
QR4703	B-2	Ⓕ
QR4704	B-1	Ⓕ
QR4705	B-1	Ⓕ
QR4706	A-4	Ⓕ
QR4707	B-2	Ⓕ
QR4708	B-2	Ⓕ
QR4709	B-2	Ⓕ
QR4710	B-2	Ⓕ
QR4711	B-2	Ⓕ
QR4712	B-2	Ⓕ
QR4713	B-2	Ⓕ
QR4714	B-2	Ⓕ
QR4715	B-1	Ⓕ
Integrated Circuit		
IC4501	A-1	Ⓕ
IC4502	A-1	Ⓕ
IC4503	A-1	Ⓕ
IC4504	A-1	Ⓕ
IC4505	B-1	Ⓕ
IC4506	A-5	Ⓕ
IC4507	A-5	Ⓕ
IC4508	A-5	Ⓕ
IC4509	B-5	Ⓕ
IC4510	B-5	Ⓕ
IC4511	B-5	Ⓕ
IC4512	B-5	Ⓕ
IC4513	B-4	Ⓕ
IC4514	B-5	Ⓕ
IC4701	B-4	Ⓕ
IC4702	A-3	Ⓕ
IC4703	B-2	Ⓕ
Test Point		
TP4701	B-4	Ⓕ
TP4702	B-5	Ⓕ
TP4703	B-5	Ⓕ
TP4704	B-1	Ⓕ
TP4705	B-3	Ⓕ
TP4706	B-2	Ⓕ
TP4707	B-3	Ⓕ
TP4708	B-1	Ⓕ
TP4709	B-2	Ⓕ
TP4710	B-3	Ⓕ
TP4711	B-5	Ⓕ
Adjustment		
VR4501	B-1	Ⓕ
VR4502	B-1	Ⓕ
VR4503	B-5	Ⓕ
VR4504	B-5	Ⓕ
VR4701	B-4	Ⓕ
VR4702	B-4	Ⓕ
VR4703	B-4	Ⓕ
VR4704	B-4	Ⓕ
VR4705	A-4	Ⓕ
VR4706	B-2	Ⓕ
VR4707	B-2	Ⓕ
VR4708	B-2	Ⓕ
VR4709	B-2	Ⓕ
VR4710	B-3	Ⓕ
VR4711	B-3	Ⓕ
VR4712	B-3	Ⓕ
Connector		
P4501	A-3	Ⓕ
P4701	B-2	Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

AUDIO (2) SCHEMATIC DIAGRAM

Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE



IN REC MODE ⟸ NORMAL AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE ⟸ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

B · LINE
C · LINE
F · LINE
G · LINE

IC4701 BA7705K1
IC4702 μPC78N05H (REG +5V)
IC4703 AN3912 (HIFI)
IC4510 RC4558M
IC4510 RC4558M (BUFFER)
IC4512 MC14066BF
IC4513 NJM4556DD (BUFFER)
IC4513 NJM4556DD (BUFFER)

Q4501 MSB709 (POWER ON MUTE)
Q4502 2SD1328 (MUTE)
Q4503 2SD1328 (MUTE)
Q4504 2SD1328 (MUTE)
Q4505 2SD1328 (MUTE)
Q4506 2SD1328 (MUTE)
Q4507 2SD1328 (MUTE)
Q4508 2SD1328 (MUTE)
Q4510 2SD1328 (MUTE)
Q4511 2SD1328 (MUTE)
Q4701 2SD1328 (MUTE:ON)
Q4702 2SD1328 (MUTE:ON)
Q4703 2SD636 (REG.)
Q4704 MSD601 (AMP)
Q4705 MSD601 (BUFFER)
Q4706 XN1501 (REG.)
Q4707 2SB790 (REC ON)
QR4701 MRN2404 (INV.)
QR4702 MRN1402 (INV.)
QR4703 MRN1404 (INV.)
QR4705 MRN1403 (INV.)
QR4706 MRN2404
QR4710 MRN2404
QR4711 MRN1404 (S CAS·ON)
QR4712 MRN1404
QR4713 MRN2404
QR4715 MRN1403 (INV.)

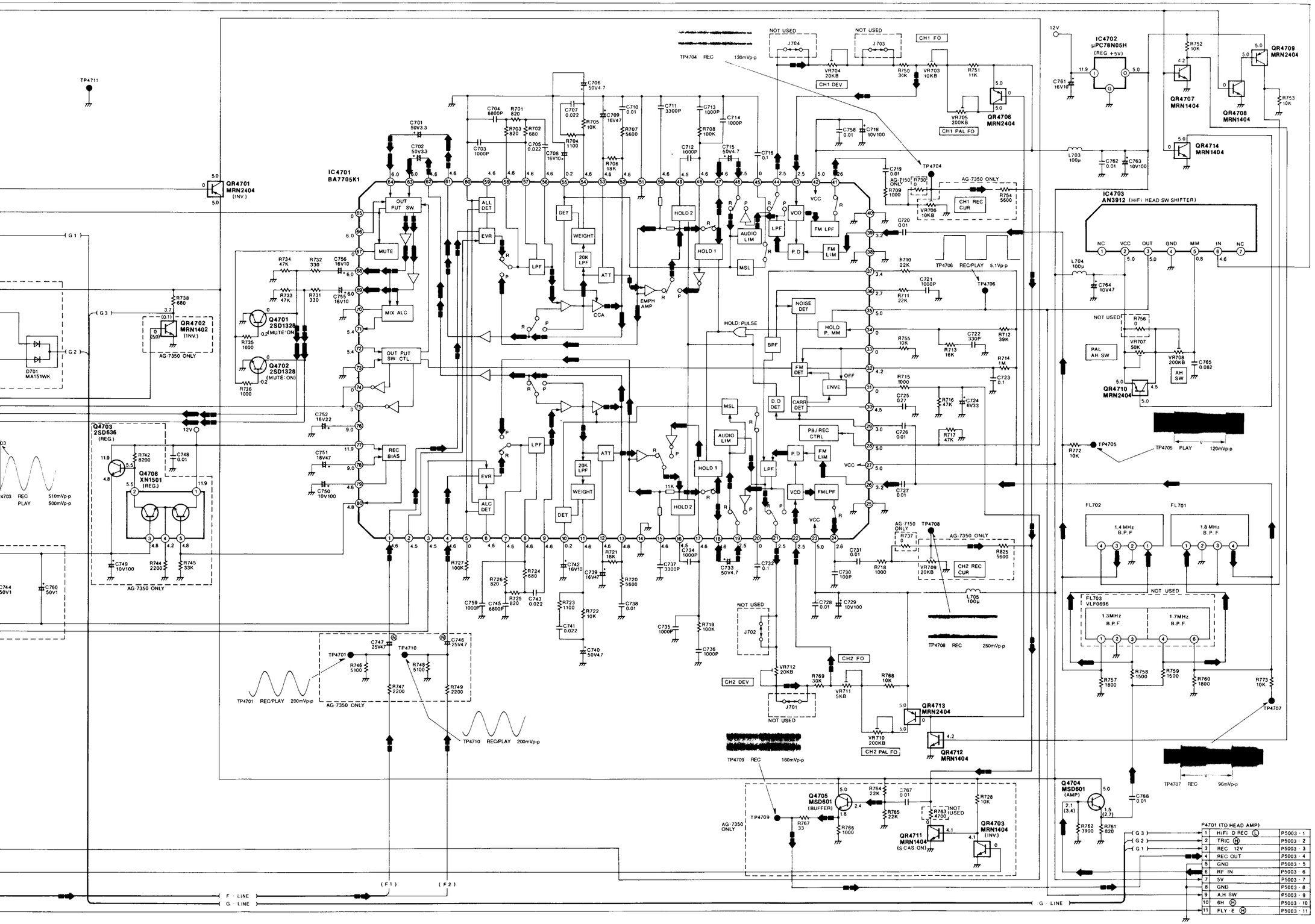
D503 MA153
D504 MA3043
D505 OA90
D507 MA3043
D508 OA90
D509 OA90
D701 MA151WK

TP4702 REC PLAY 500mVp-p 480mVp-p
TP4703 REC PLAY 510mVp-p 500mVp-p
TP4704 REC 130mVp-p
TP4705 REC/PLAY 5.1Vp-p
TP4706 REC/PLAY 5.1Vp-p
TP4708 REC 250mVp-p
TP4709 REC 160mVp-p
TP4710 REC/PLAY 200mVp-p
TP4701 REC/PLAY 200mVp-p

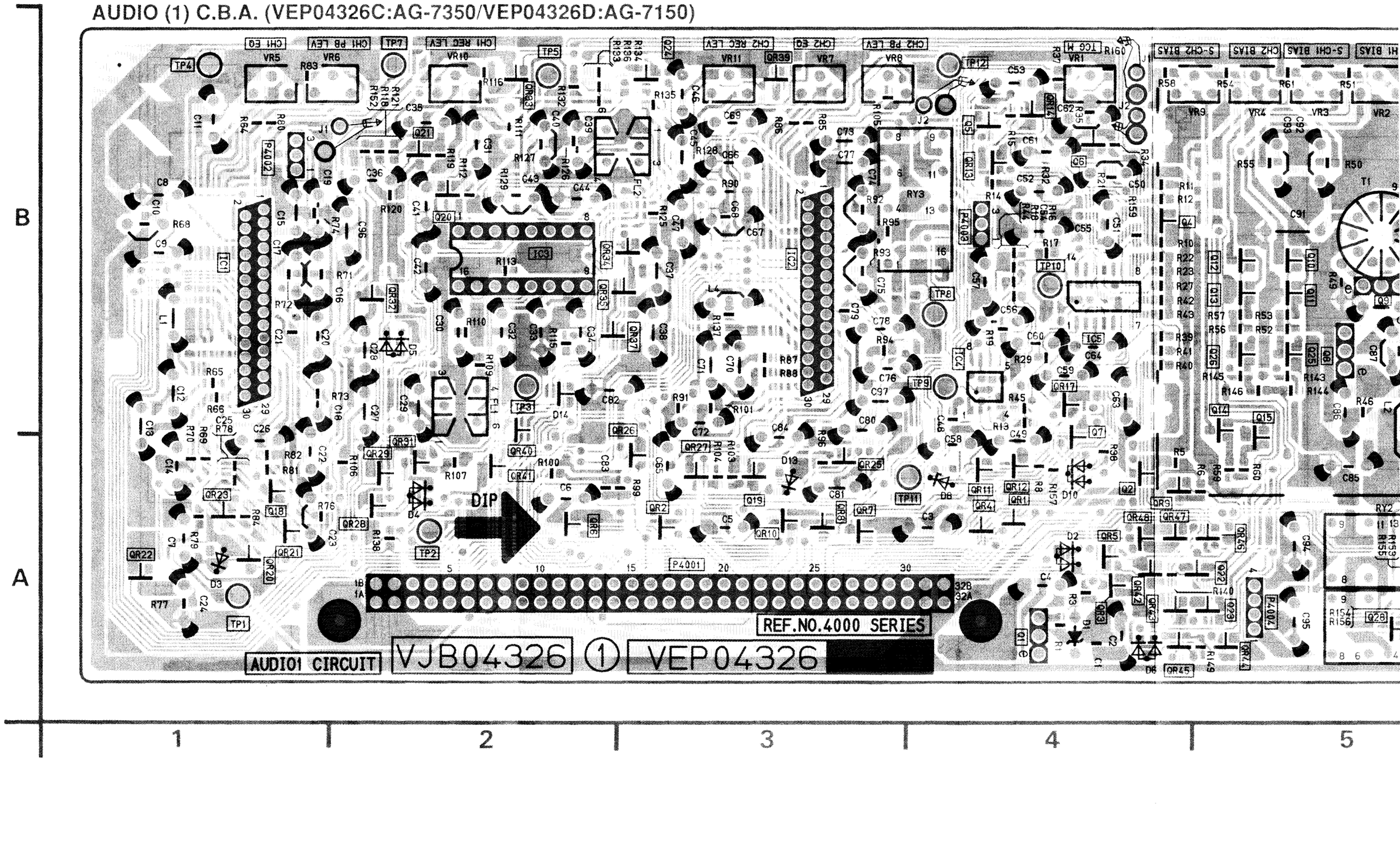
AG-7350 ONLY
AG-7150 ONLY
NOT USED
CH1 MT ADJ
CH2 MT ADJ
CH1 Hi-Fi EE
CH2 Hi-Fi EE
CH1 REC CUR
CH2 REC CUR
CH1 DEV
CH2 DEV
CH1 FO
CH2 FO
CH1 PAL FO
CH2 PAL FO
OUT PUT SW
ALL DET
MUTE
EVR
MIX ALC
OUT PUT SW. CTL
REC BIAS
ALC DET
DET
WEIGHT
20K LPF
ATT
CCA
EMPH AMP
LPF
HOLD 2
HOLD 1
AUDIO LIM
MSL
VCO
FM LPF
P.D
FM LIM
HOLD PULSE
NOISE DET
HOLD P. MM
BPF
FM DET
ENVE
D.O DET
CARR DET
PB/REC CTRL
FMLPF
VCC
NC
PAL AH SW
FL702
1.4MHz B.P.F.
FL703 VLF6896
1.3MHz B.P.F.

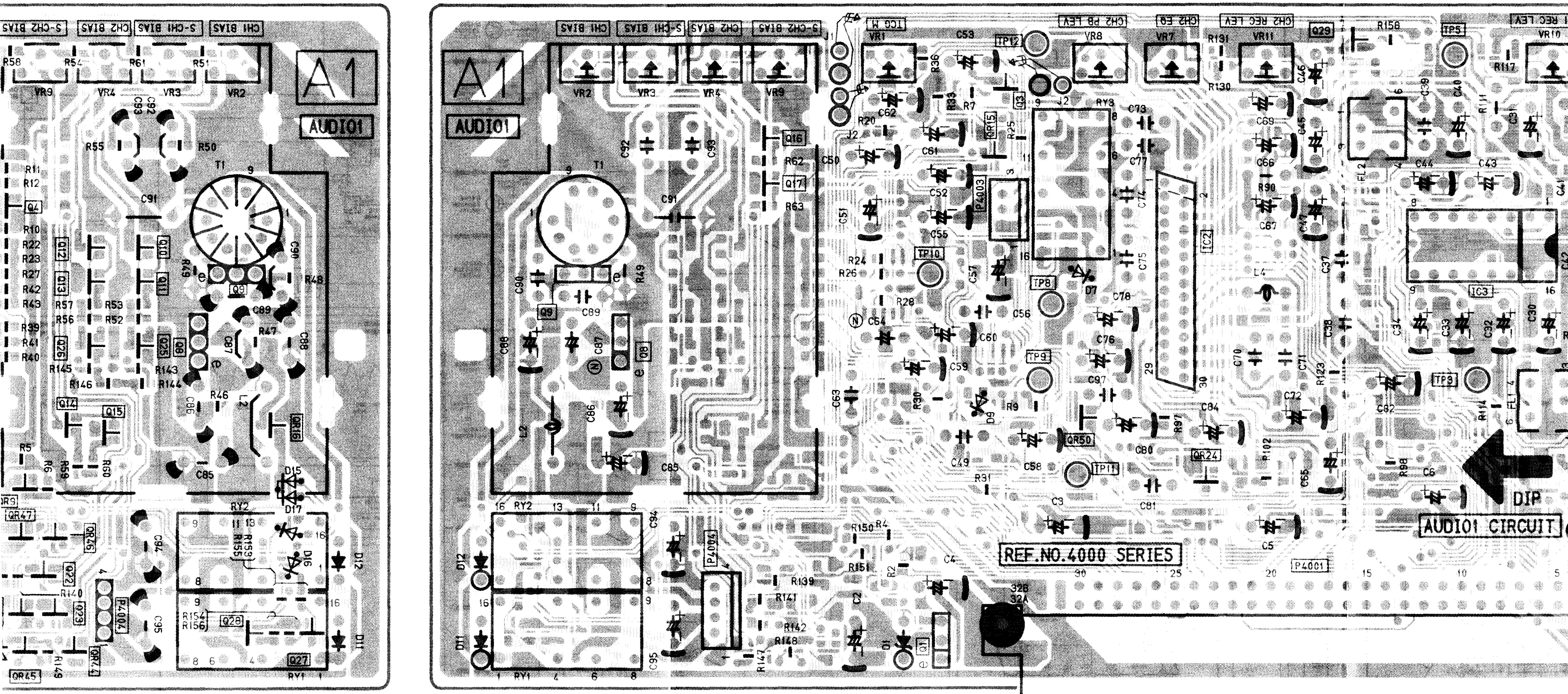
10 11 12 13 14 15 16 17 18 19 20 21

H IN PLAYBACK MODE ⇦ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE



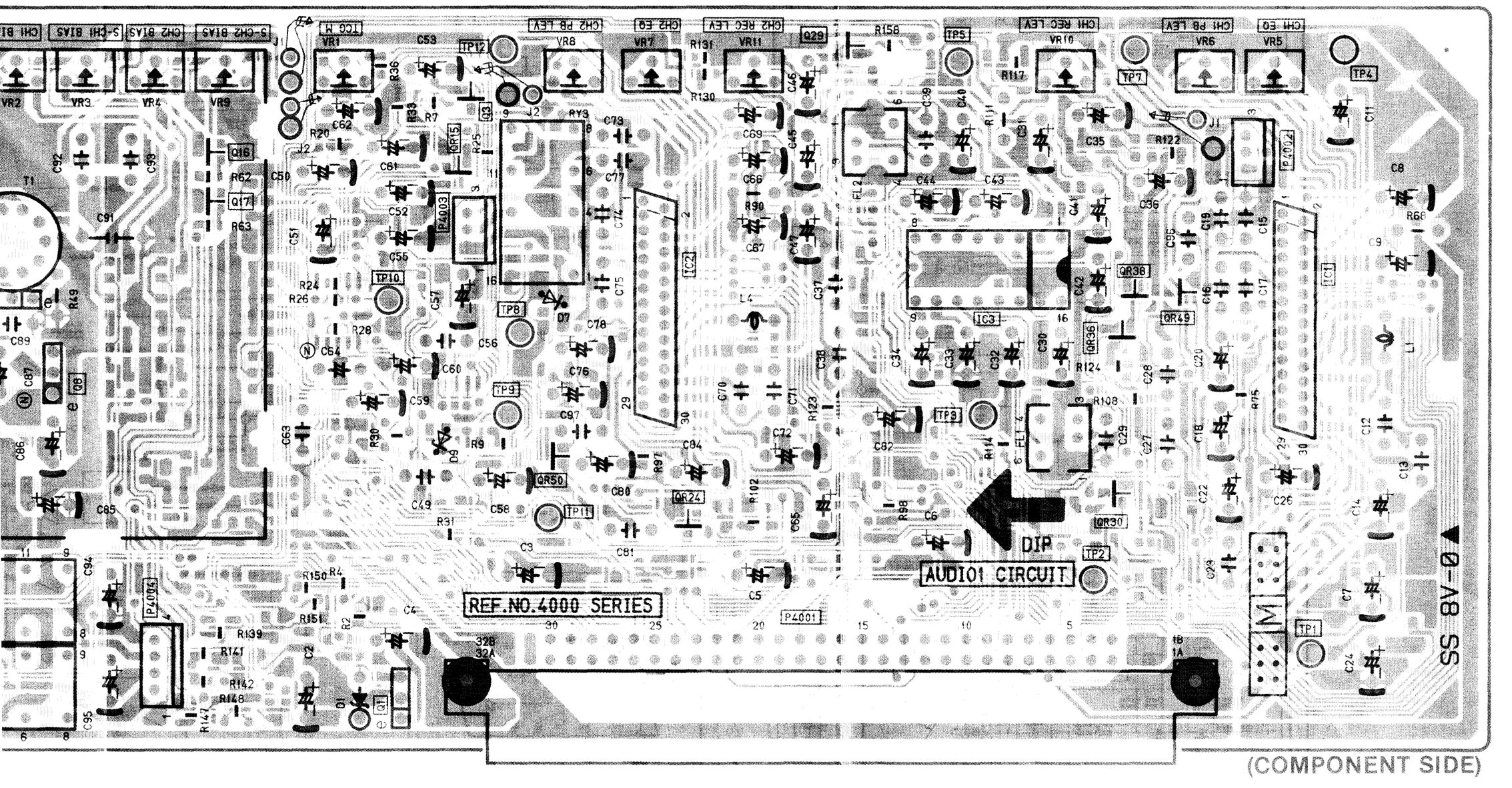
AUDIO (1) C.B.A. (VEP04326C: AG-7350/VEP04326D: AG-7150)





(FOIL SIDE)

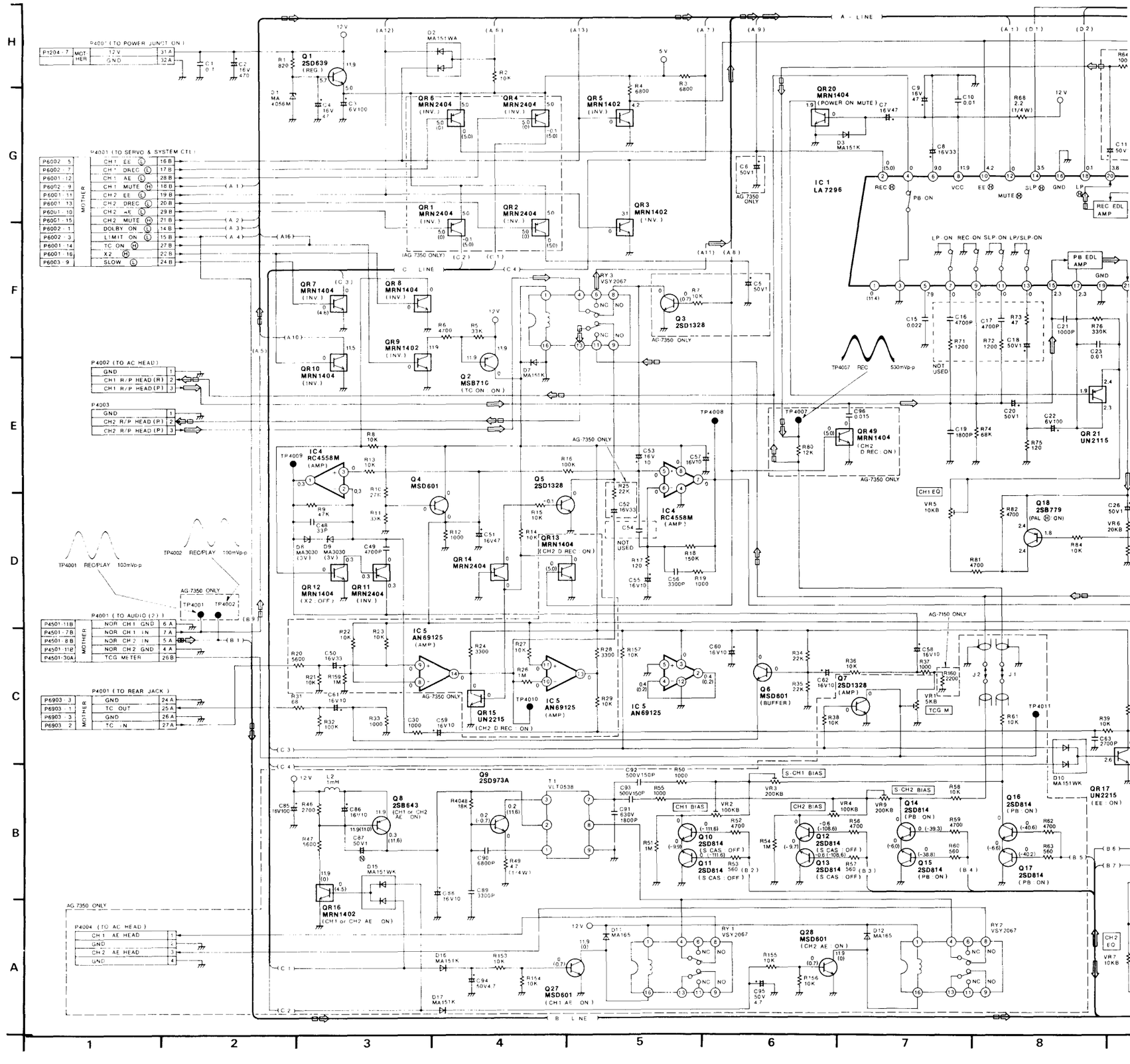
5 6 7 8 9


REF.NO.4000 SERIES
AUDIO1 CIRCUIT
DIP
(COMPONENT SIDE)
SS-8V-0
7
8
9
10

AUDIO (1) SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN PLAYBACK MODE

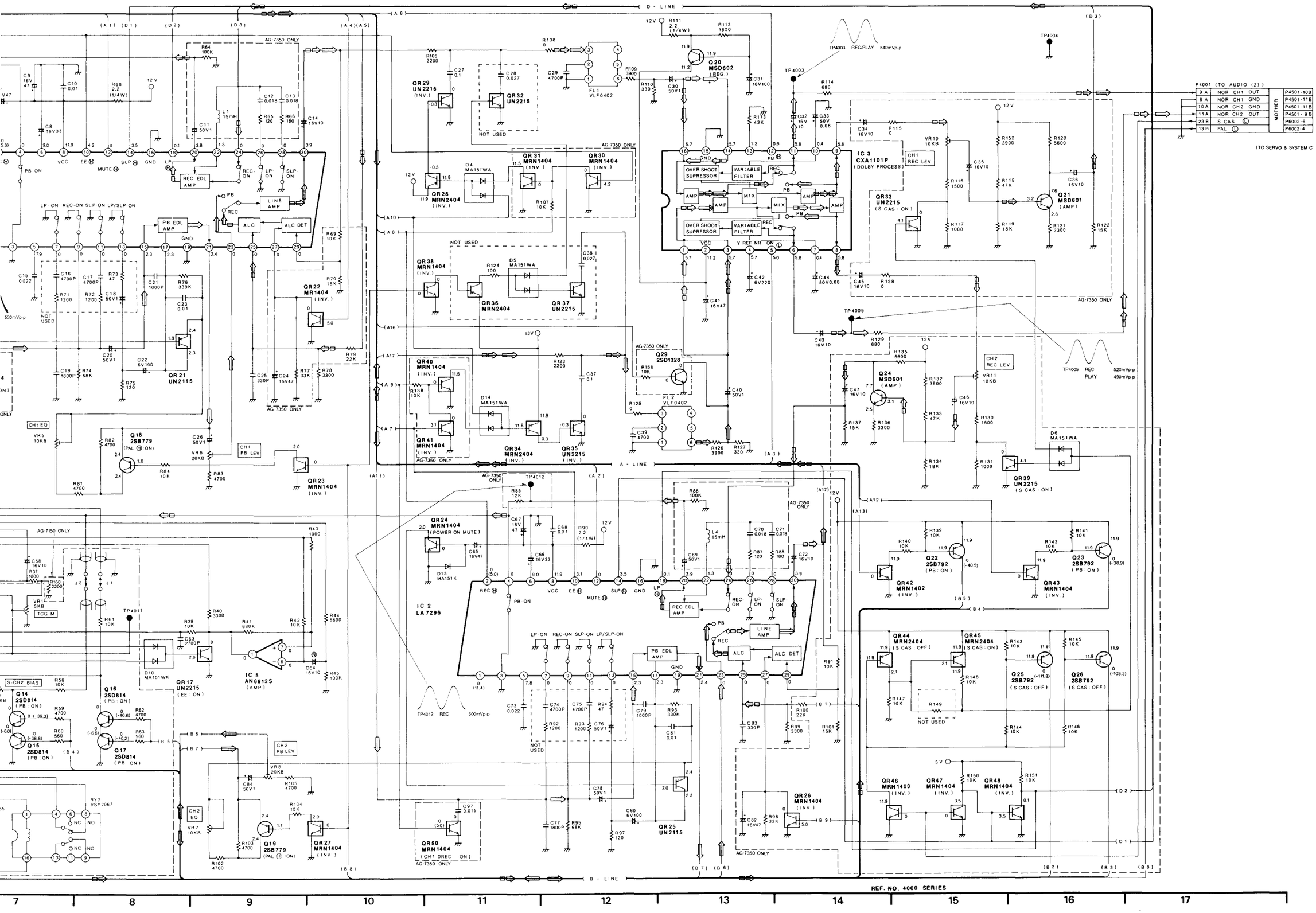
MAIN SIGNAL PATH IN REC MODE



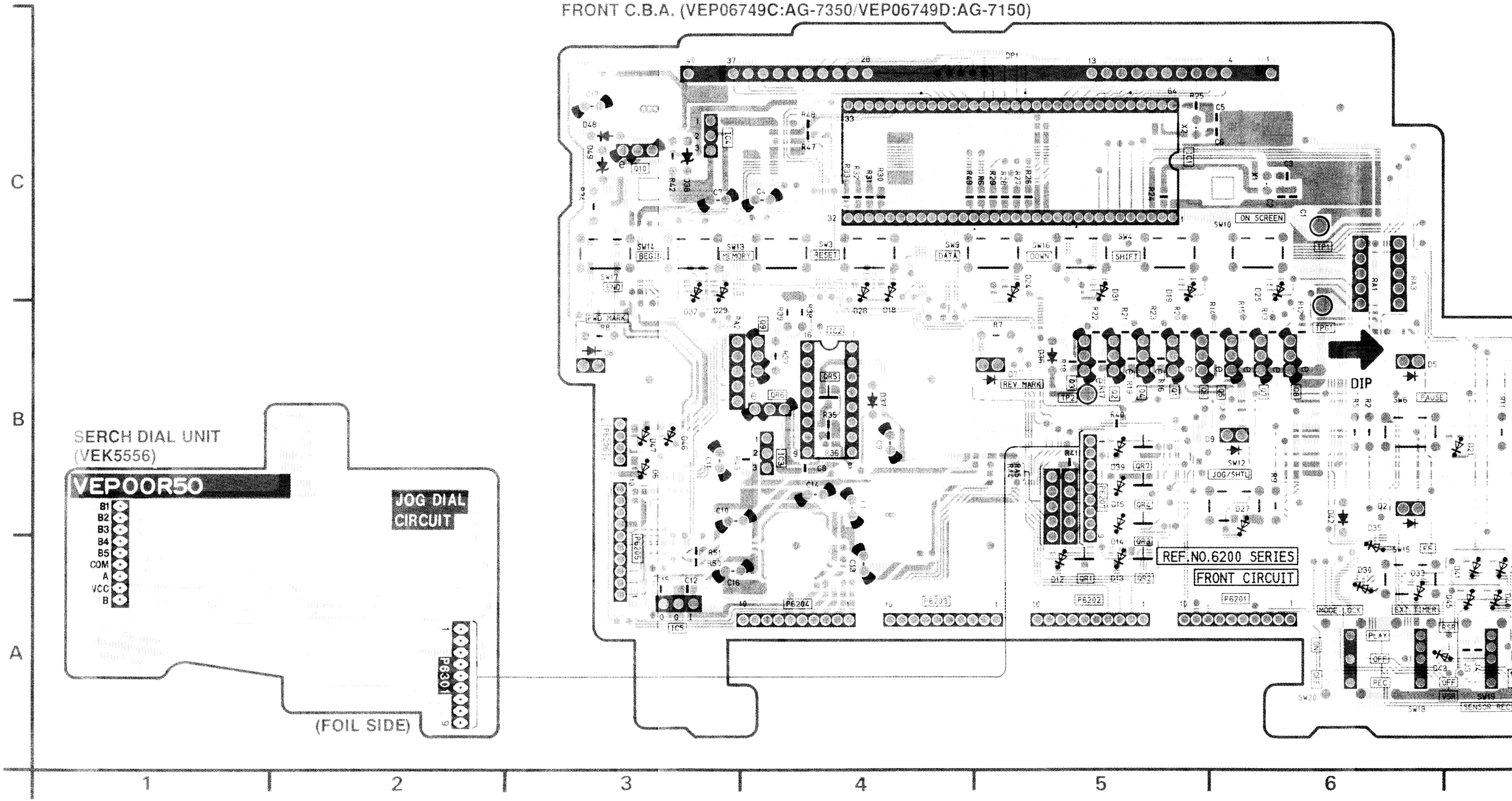
AUDIO (1) C.B.A.		
Transistor		
Q4001	A-8	©
Q4001	A-4	Ⓕ
Q4002	A-4	Ⓕ
Q4003	B-8	©
Q4004	B-4	Ⓕ
Q4005	B-4	Ⓕ
Q4006	B-4	Ⓕ
Q4007	A-4	Ⓕ
Q4008	B-7	©
Q4008	B-5	Ⓕ
Q4009	B-6	©
Q4009	B-5	Ⓕ
Q4010	B-5	Ⓕ
Q4011	B-5	Ⓕ
Q4012	B-5	Ⓕ
Q4013	B-5	Ⓕ
Q4014	B-5	Ⓕ
Q4015	B-5	Ⓕ
Q4016	B-7	©
Q4017	B-7	©
Q4018	A-1	Ⓕ
Q4019	A-3	Ⓕ
Q4020	B-2	Ⓕ
Q4021	B-2	Ⓕ
Q4022	A-5	Ⓕ
Q4023	A-5	Ⓕ
Q4024	B-3	Ⓕ
Q4025	B-5	Ⓕ
Q4026	B-5	Ⓕ
Q4027	A-5	Ⓕ
Q4028	A-5	Ⓕ
Q4029	B-9	©
Transistor & Resistor		
QR4001	A-4	Ⓕ
QR4002	A-3	Ⓕ
QR4003	A-4	Ⓕ
QR4004	A-4	Ⓕ
QR4005	A-4	Ⓕ
QR4006	A-2	Ⓕ
QR4007	A-3	Ⓕ
QR4008	A-3	Ⓕ
QR4009	A-4	Ⓕ
QR4010	A-3	Ⓕ
QR4011	A-4	Ⓕ
QR4012	A-4	Ⓕ
QR4013	B-4	Ⓕ
QR4014	B-4	Ⓕ
QR4015	B-8	©
QR4016	B-5	Ⓕ
QR4017	B-4	Ⓕ
QR4020	A-1	Ⓕ
QR4021	A-1	Ⓕ
QR4022	A-1	Ⓕ
QR4023	A-1	Ⓕ
QR4024	A-8	©
QR4025	A-3	Ⓕ
QR4026	A-3	Ⓕ
QR4027	A-3	Ⓕ
QR4028	A-2	Ⓕ
QR4029	A-2	Ⓕ
QR4030	A-10	©
QR4031	A-2	Ⓕ
QR4032	B-2	Ⓕ
QR4033	B-2	Ⓕ
QR4034	B-2	Ⓕ
QR4035	B-2	Ⓕ
QR4036	B-10	©
QR4037	B-3	Ⓕ
QR4038	B-10	©
QR4039	B-3	Ⓕ
QR4040	A-2	Ⓕ
QR4041	A-2	Ⓕ
QR4042	A-4	Ⓕ
QR4043	A-4	Ⓕ
QR4044	A-5	Ⓕ
QR4045	A-4	Ⓕ
QR4046	A-5	Ⓕ
QR4047	A-4	Ⓕ
QR4048	A-4	Ⓕ
QR4049	B-10	©
QR4050	A-8	©
Integrated Circuit		
IC4001	B-10	©
IC4001	B-1	Ⓕ
IC4002	B-8	©
IC4002	B-3	Ⓕ
IC4003	B-9	©
IC4003	B-2	Ⓕ
IC4004	B-4	Ⓕ
IC4005	B-4	Ⓕ
Test Point		
TP4001	A-10	©
TP4001	A-1	Ⓕ
TP4002	A-10	©
TP4002	A-2	Ⓕ
TP4003	B-9	©
TP4003	B-2	Ⓕ
TP4004	B-10	©
TP4004	B-1	Ⓕ
TP4005	B-9	©
TP4005	B-2	Ⓕ
TP4007	B-10	©
TP4007	B-2	Ⓕ
TP4008	B-8	©
TP4008	B-4	Ⓕ
TP4009	B-8	©
TP4009	B-4	Ⓕ
TP4010	B-7	©
TP4010	B-4	Ⓕ
TP4011	A-8	©
TP4011	A-4	Ⓕ
TP4012	B-8	©
TP4012	B-4	Ⓕ
Adjustment		
VR4001	B-7	©
VR4001	B-4	Ⓕ
VR4002	B-6	©
VR4002	B-5	Ⓕ
VR4003	B-7	©
VR4003	B-5	Ⓕ
VR4004	B-7	©
VR4004	B-5	Ⓕ
VR4005	B-10	©
VR4005	B-1	Ⓕ
VR4006	B-10	©
VR4006	B-2	Ⓕ
VR4007	B-8	©
VR4007	B-3	Ⓕ
VR4008	B-8	©
VR4008	B-3	Ⓕ
VR4009	B-7	©
VR4009	B-5	Ⓕ
VR4010	B-10	©
VR4010	B-2	Ⓕ
VR4011	B-9	©
VR4011	B-3	Ⓕ
Connector		
P4001	A-9	©
P4001	A-3	Ⓕ
P4002	B-10	©
P4002	B-1	Ⓕ
P4003	B-8	©
P4003	B-4	Ⓕ
P4004	A-7	©
P4004	A-5	Ⓕ

ADDRESS INFORMATION
©...COMPONENT SIDE
Ⓕ...FOIL SIDE

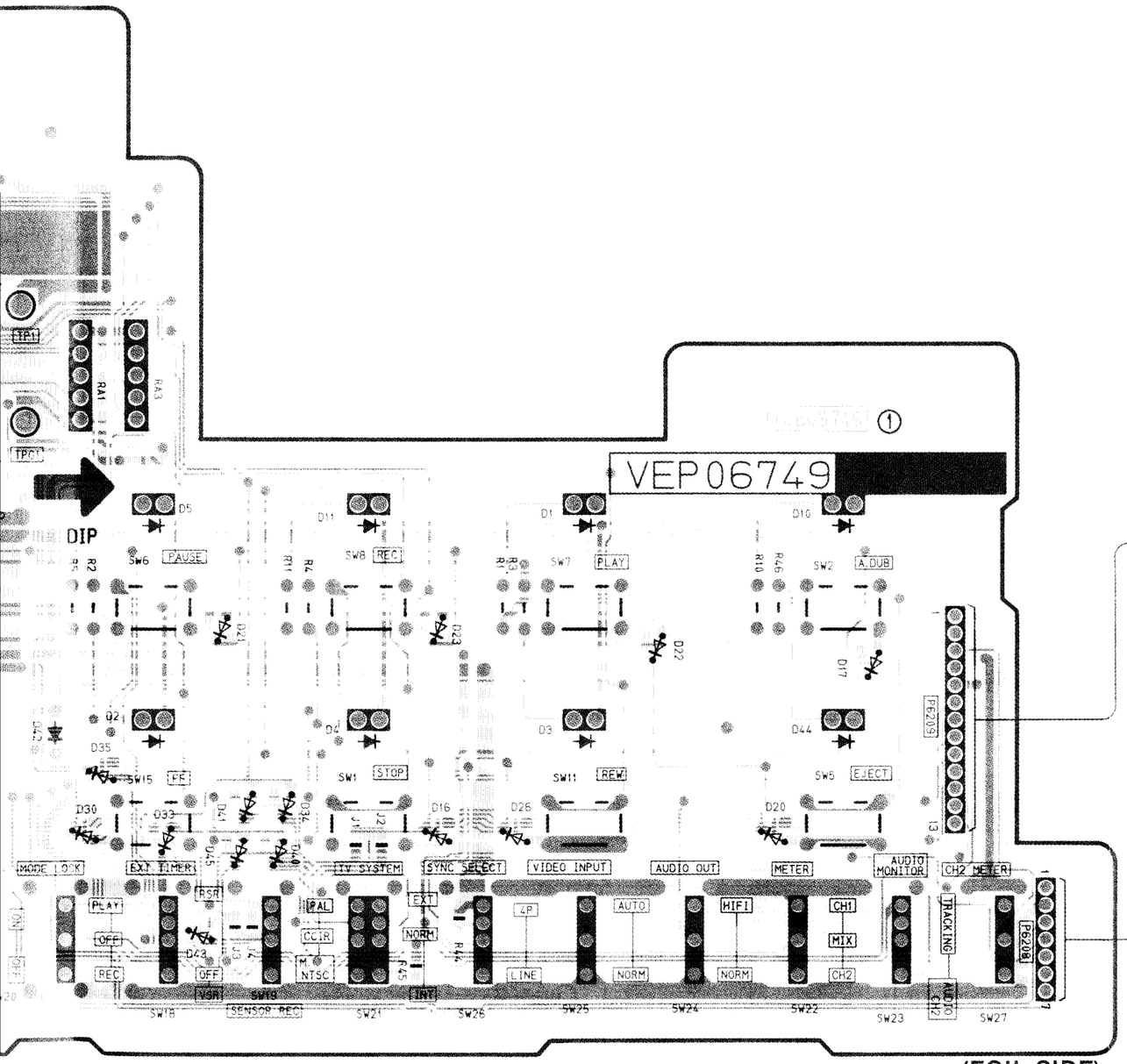
SIGNAL PATH IN REC MODE



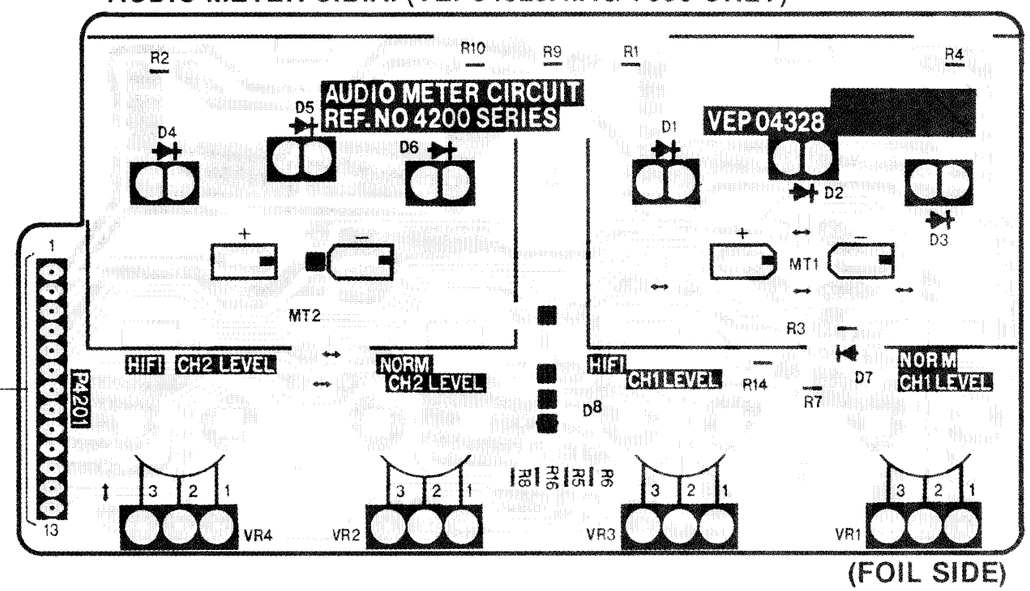
FRONT C.B.A. (VEP06749C: AG-7350/VEP06749D: AG-7150), AUDIO METER C.B.A. (VEP04328A: AG-7350 ONLY), FRONT JACK C.B.A. (VEP04342A) AN



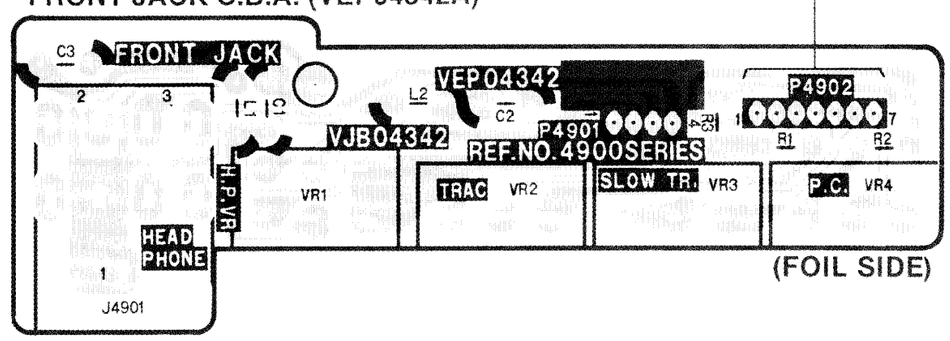
B.A. (VEP04342A) AND SEARCH DIAL UNIT (VEK5556)



AUDIO METER C.B.A. (VEP04328A:AG-7350 ONLY)



FRONT JACK C.B.A. (VEP04342A)



6 7 8 9 10 11 12

FRONT SCHEMATIC DIAGRAM

Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

NORMAL AUDIO MAIN SIGNAL PATH IN PLA

FRONT C.B.A.	
Transistor	
Q6201	B-5 Ⓕ
Q6202	B-5 Ⓕ
Q6203	B-5 Ⓕ
Q6204	B-5 Ⓕ
Q6205	B-6 Ⓕ
Q6206	B-5 Ⓕ
Q6207	B-6 Ⓕ
Q6208	B-6 Ⓕ
Q6209	B-4 Ⓕ
Q6210	C-3 Ⓕ
Transistor & Resistor	
QR6201	A-5 Ⓕ
QR6202	A-5 Ⓕ
QR6203	A-5 Ⓕ
QR6204	A-5 Ⓕ
QR6205	B-4 Ⓕ
QR6206	B-4 Ⓕ
QR6207	B-5 Ⓕ
Integrated Circuit	
IC6201	C-5 Ⓕ
IC6202	B-4 Ⓕ
IC6203	B-4 Ⓕ
IC6204	C-3 Ⓕ
IC6205	A-3 Ⓕ
Test Point	
TP6201	C-6 Ⓕ
TP6202	B-5 Ⓕ
TPG6201	B-6 Ⓕ
Connector	
P6201	A-6 Ⓕ
P6202	A-5 Ⓕ
P6203	A-4 Ⓕ
P6204	A-4 Ⓕ
P6205	A-3 Ⓕ
P6206	B-3 Ⓕ
P6207	A-5 Ⓕ
P6208	B-9 Ⓕ
P6209	B-9 Ⓕ
P6301	A-2 Ⓕ

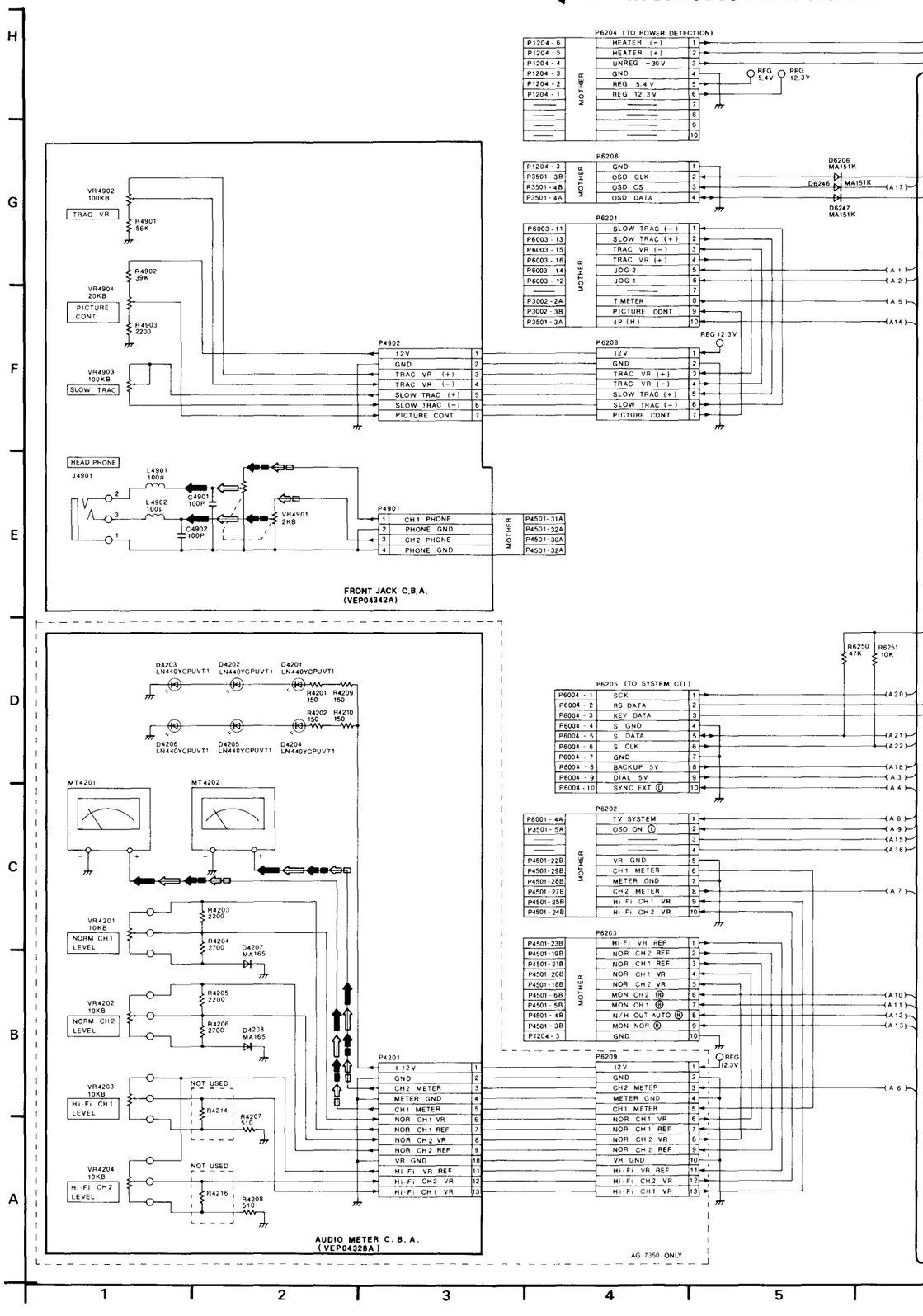
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

AUDIO METER C.B.A.	
Adjustment	
VR4201	B-12 Ⓕ
VR4202	B-10 Ⓕ
VR4203	B-11 Ⓕ
VR4204	B-10 Ⓕ
Connector	
P4201	B-10 Ⓕ

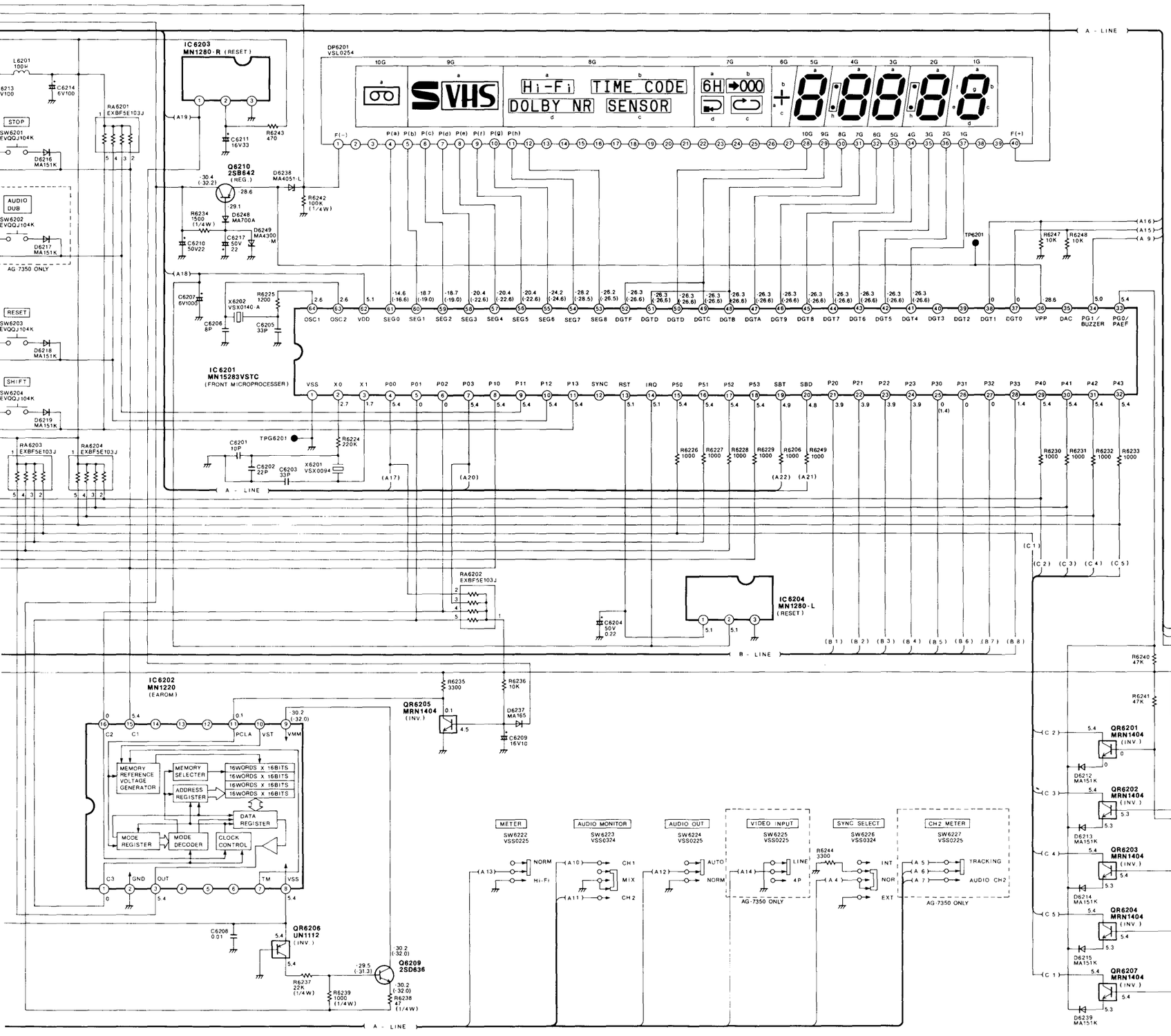
ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE

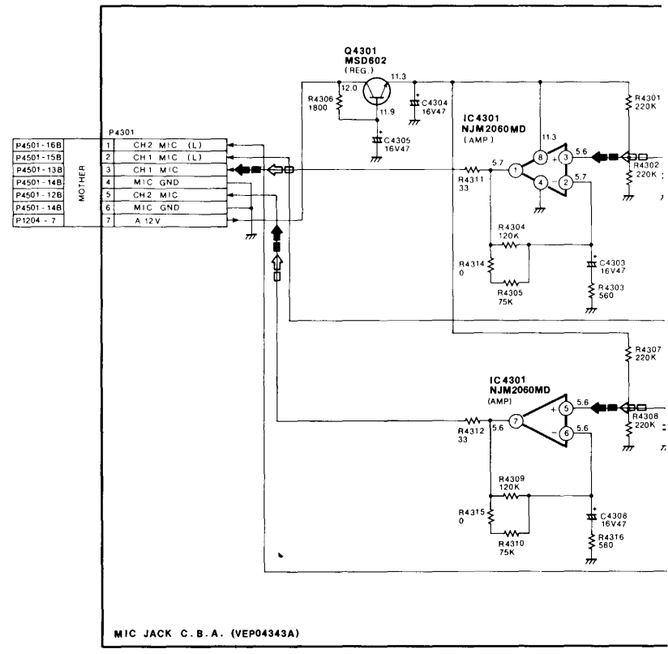
FRONT JACK C.B.A.	
Adjustment	
VR4901	A-10 Ⓕ
VR4902	A-11 Ⓕ
VR4903	A-11 Ⓕ
VR4904	A-12 Ⓕ
Connector	
P4901	A-11 Ⓕ
P4902	A-12 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE



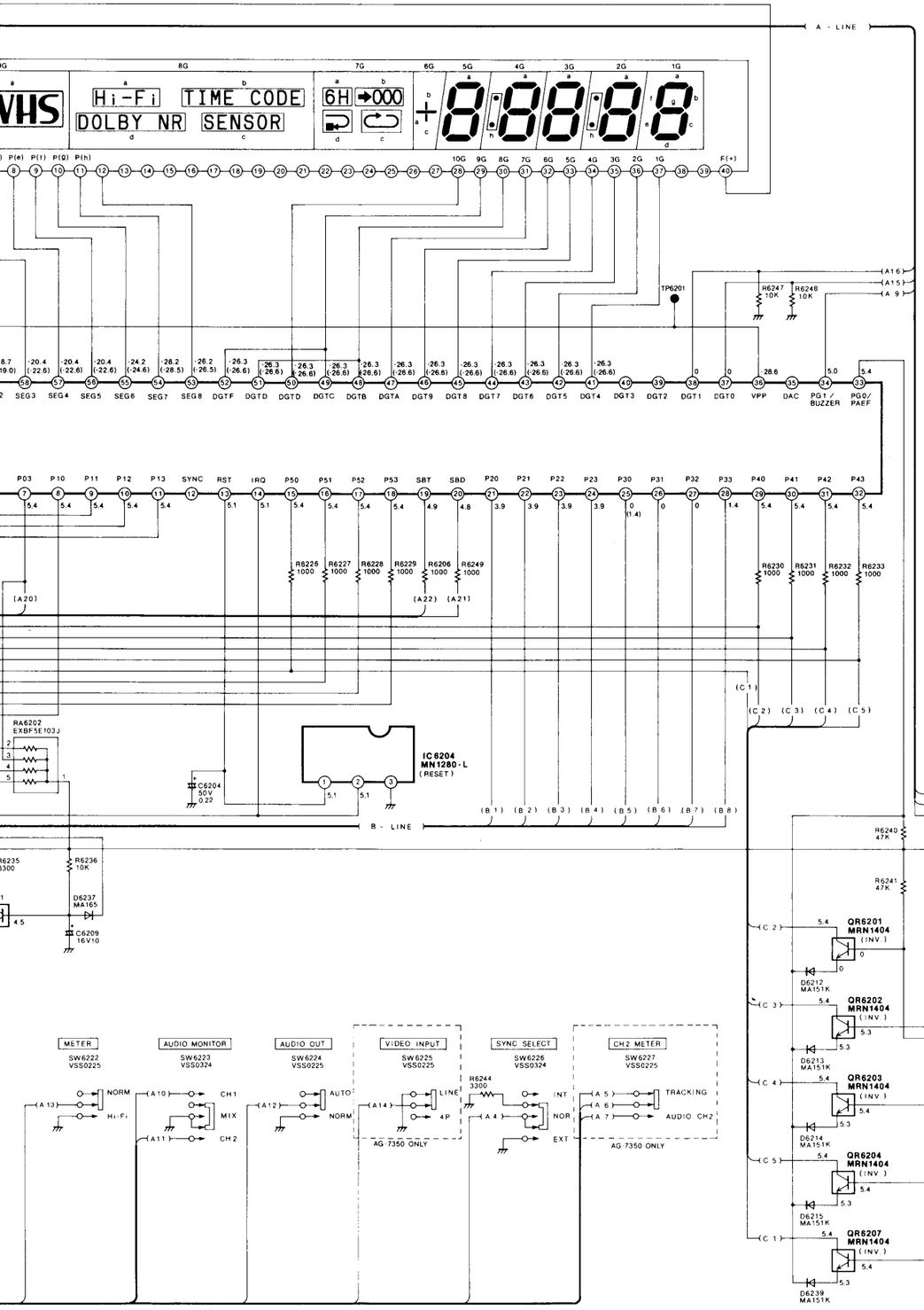
PATH IN PLAYBACK MODE ◀■ Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE ◁□ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

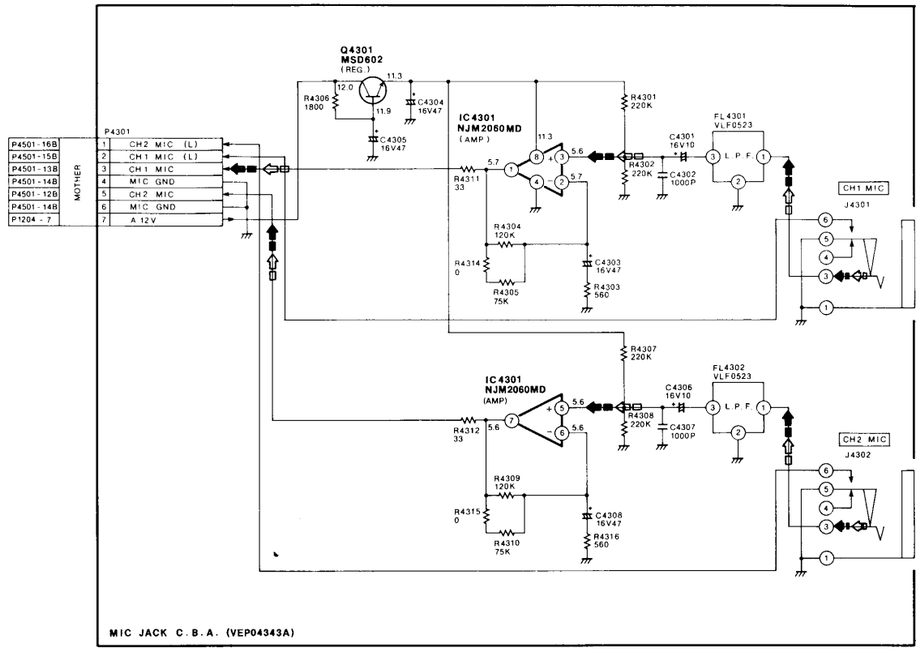




10 11 12 13 14 15 16 17 18 19 20 21 22

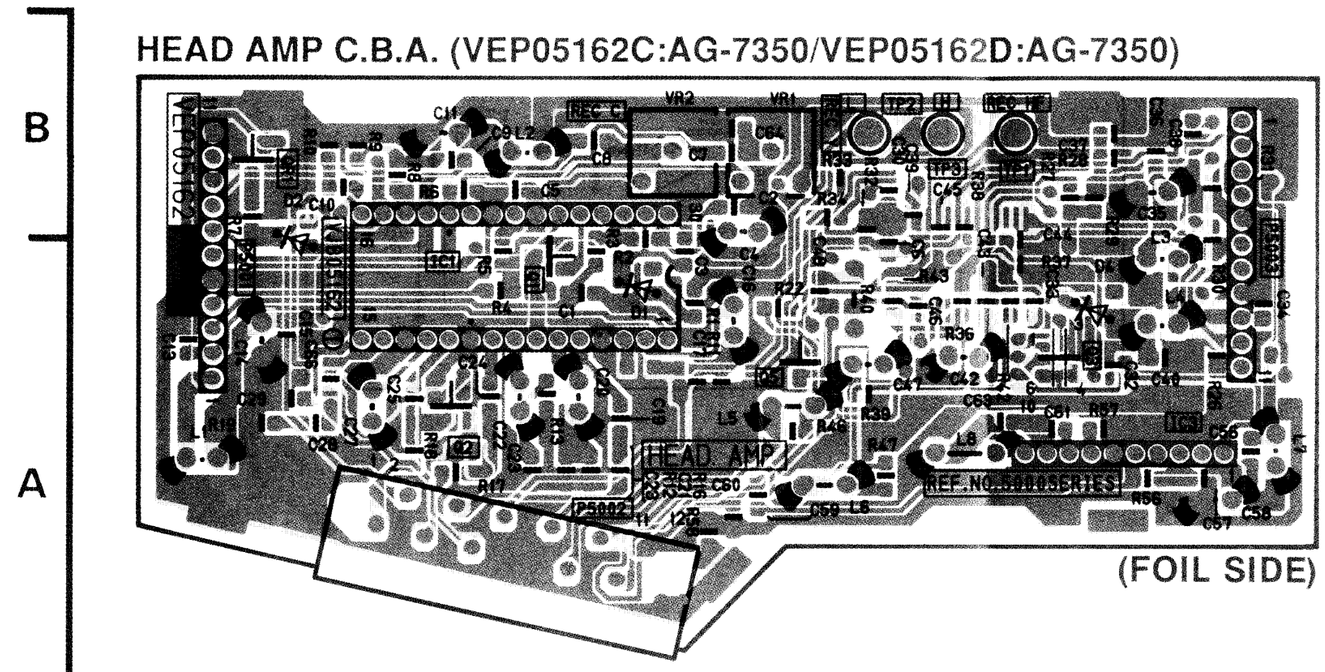
AIN SIGNAL PATH IN REC MODE ⇦□ NORMAL AUDIO MAIN SIGNAL PATH IN REC MODE

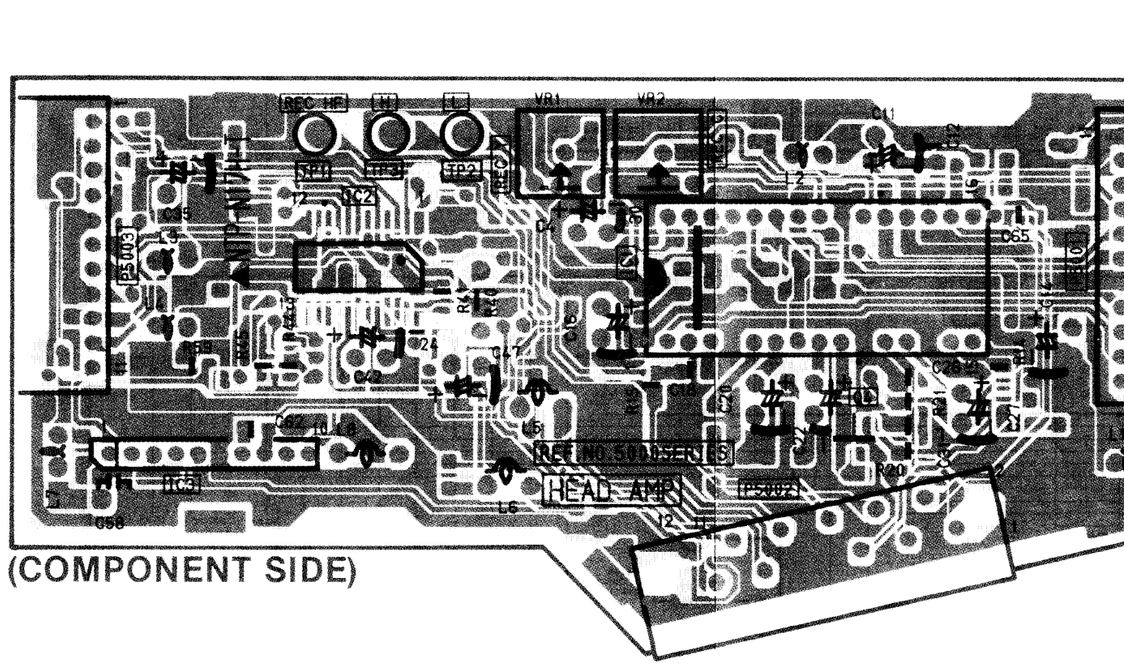




HEAD AMP C.B.A. (VEP05162C: AG-7350/VEP05162D: AG-7150)

HEAD AMP C.B.A. (VEP05162C:AG-7350/VEP05162D:AG-7350)



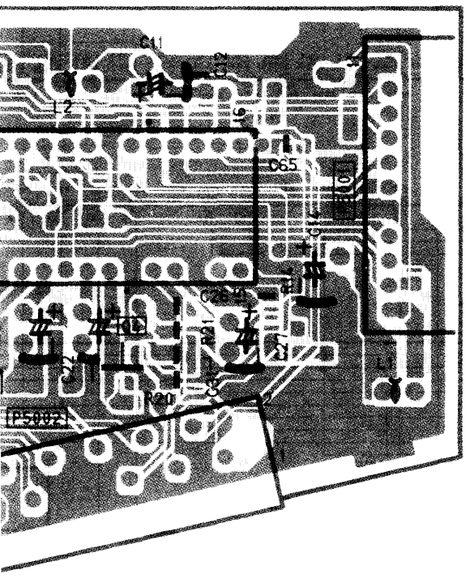


B

A

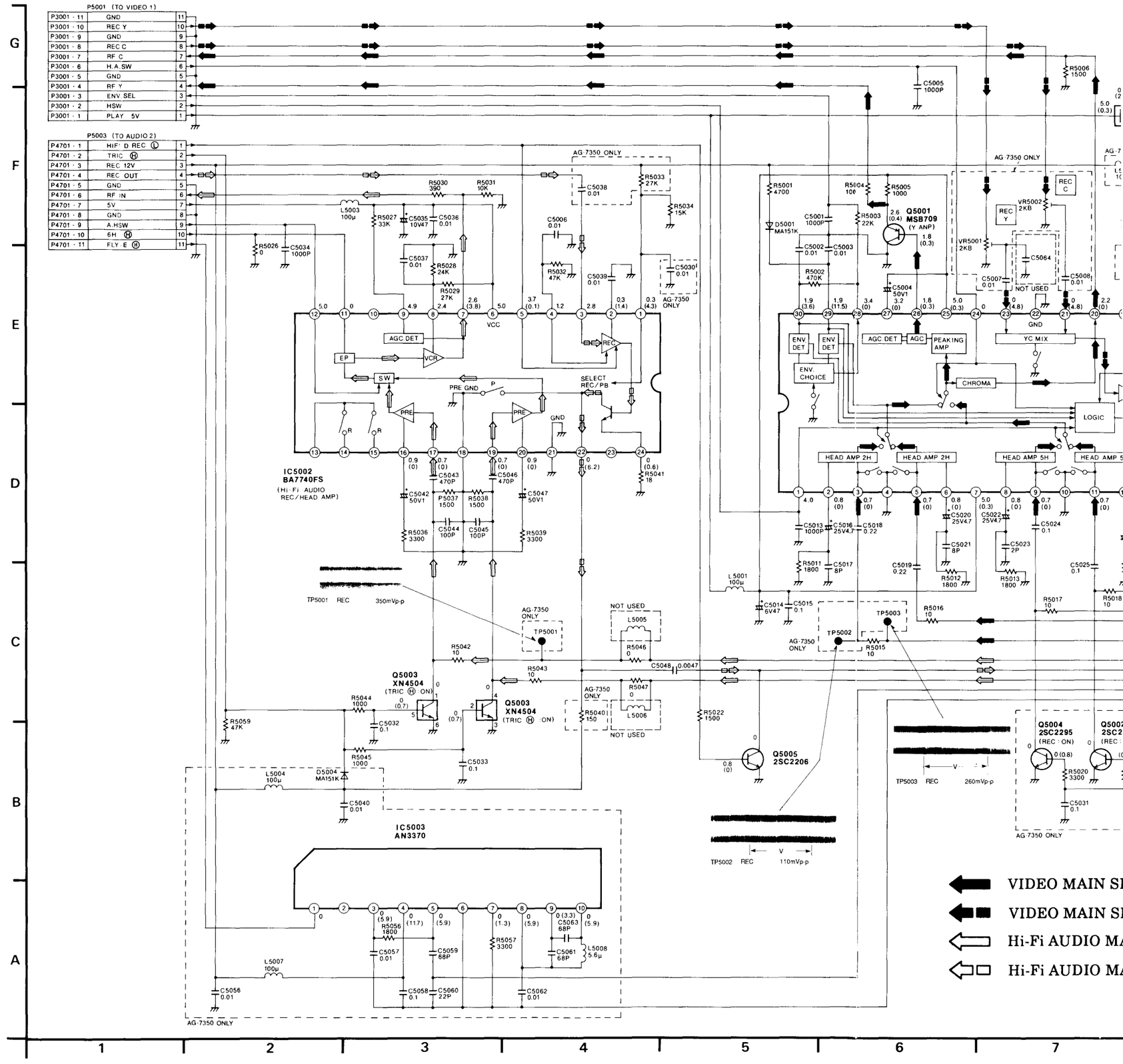
1 2 3 4 5

HEAD AMP SCHEMATIC DIAGRAM

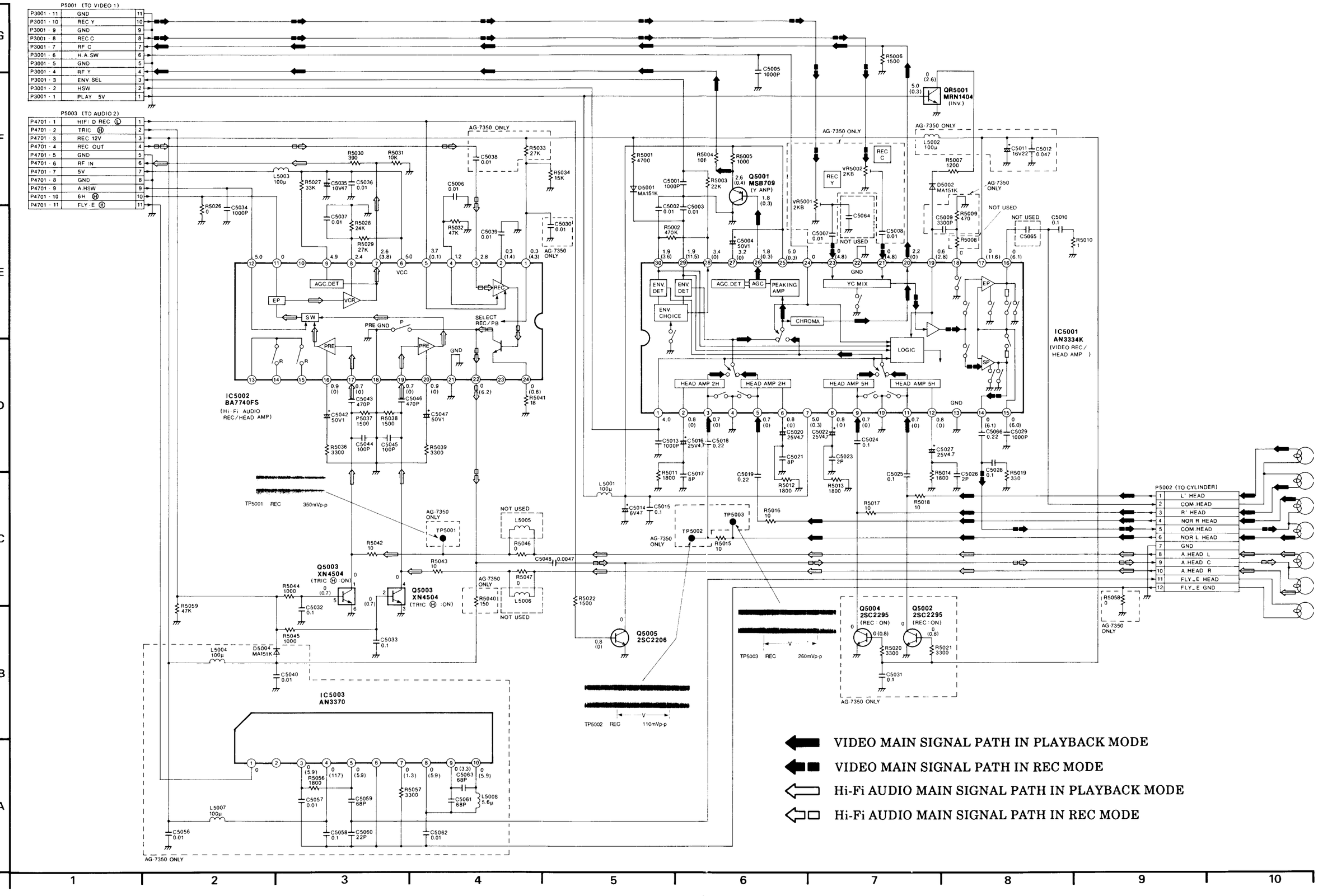


HEAD AMP C.B.A.		
Transistor		
Q5001	A-1	Ⓕ
Q5002	A-1	Ⓕ
Q5003	A-3	Ⓕ
Q5004	A-5	Ⓒ
Q5005	A-2	Ⓕ
Transistor & Resistor		
QR5001	B-1	Ⓕ
Integrated Circuit		
IC5001	A-1	Ⓕ
IC5001	A-4	Ⓒ
IC5002	B-4	Ⓒ
IC5003	A-3	Ⓕ
IC5003	A-4	Ⓒ
Adjustment		
VR5001	B-2	Ⓕ
VR5001	B-4	Ⓒ
VR5002	B-2	Ⓕ
VR5002	B-5	Ⓒ
Test Point		
TP5001	B-2	Ⓕ
TP5001	B-4	Ⓒ
TP5002	B-2	Ⓕ
TP5002	B-4	Ⓒ
TP5003	B-2	Ⓕ
TP5003	B-4	Ⓒ
Connector		
P5001	A-1	Ⓕ
P5001	A-5	Ⓒ
P5002	A-2	Ⓕ
P5002	A-5	Ⓒ
P5003	A-3	Ⓕ
P5003	A-3	Ⓒ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE



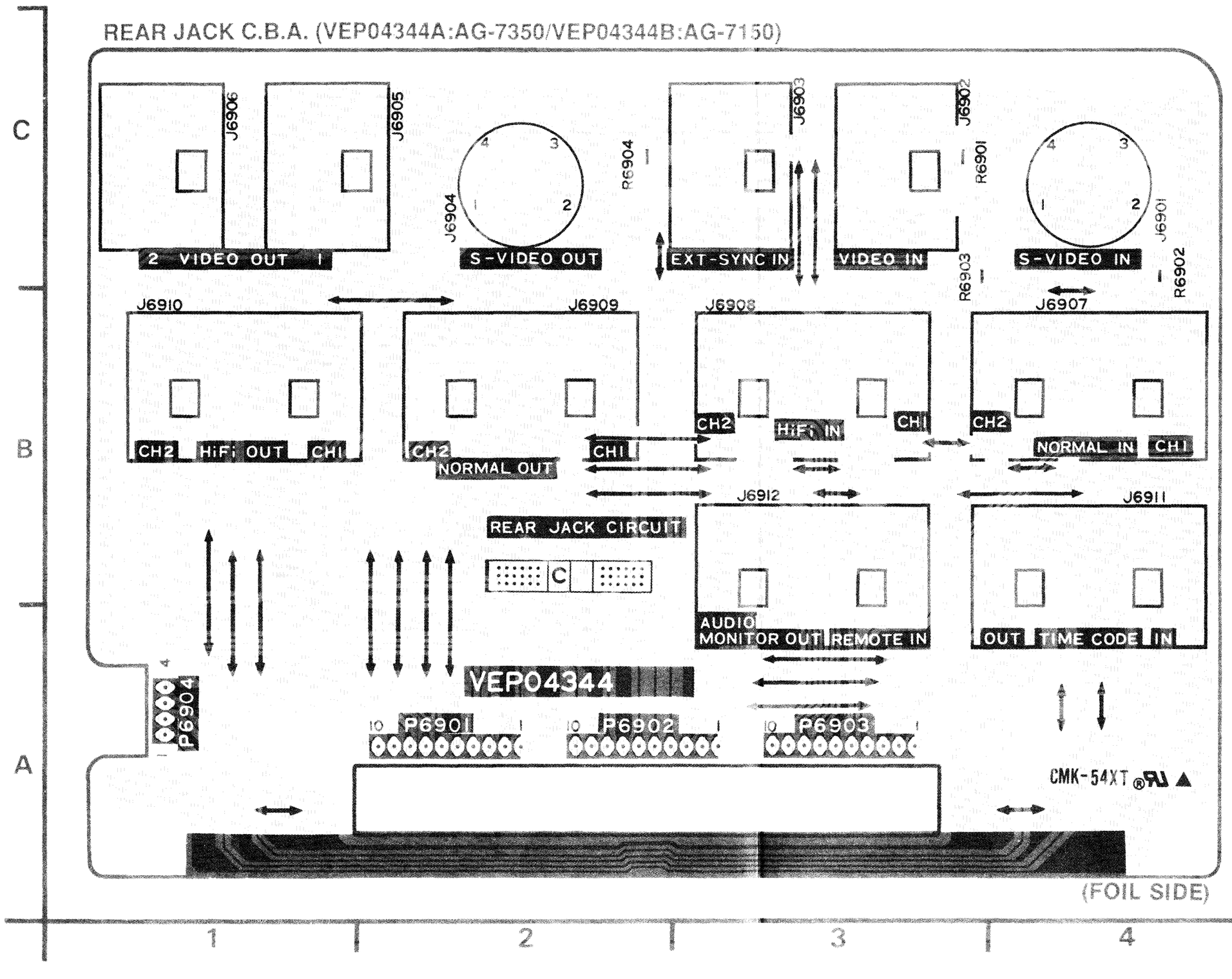
HEAD AMP SCHEMATIC DIAGRAM



REAR JACK C.B.A. (VEP04344A: AG-7350/VEP04344B: AG-7150)

REAR JACK C.B.A.	
Connector	
P6901	A-2 Ⓕ
P6902	A-2 Ⓕ
P6903	A-3 Ⓕ
P6904	A-1 Ⓕ

ADDRESS INFORMATION
Ⓒ...COMPONENT SIDE
Ⓕ...FOIL SIDE



REAR JAC

P4501-28
P4501-27
P4501-26
P4501-25
P4501-24
P1204-1
P3501-28
P3501-27
P1204-1
P3501-26
P3501-25
P1204-10
P3501-32
P1204-16
P3501-30
P1204-10
P3501-29
P1204-3
P4501-7
P4501-6
P4501-5
R4501-4
P4501-3
P4501-2
P1204-3
P6001-9
P6001-7
P1204-3
P4001-27
P4001-25

REAR JACK SCHEMATIC DIAGRAM

K C.B.A.

	A-2 Ⓕ
	A-2 Ⓕ
	A-3 Ⓕ
	A-1 Ⓕ

IFORMATION
NENT SIDE
DE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

VIDEO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

P6901

P4501-28A	CH 1 Hi-Fi OUT	10
P4501-27A	CH 2 Hi-Fi OUT	9
P4501-26A	CH 1 N/H OUT	8
P4501-25A	CH 2 N/H OUT	7
P4501-24A	MONI OUT	6
P1204-3	OUT GND	5
P3501-28A	VIDEO OUT 2	4
P3501-27A	VIDEO OUT 1	3
P1204-10	V GND	2
P3501-26A	4P Y OUT	1

P6902

P3501-25A	4P C OUT	10
P1204-10	V GND	9
P3501-32A	VIDEO IN	8
P1204-10	V GND	7
P3501-30A	4P Y IN	6
P1204-10	V GND	5
P3501-29A	4P C IN	4
P1204-3	N/H IN GND	3
P4501-7A	CH2 N/H IN	2
P4501-6A	CH1 N/H IN	1

MOTHER

P6903

P4501-5A	CH2 J Hi-Fi (H)	10
R4501-4A	CH1 J Hi-Fi (H)	9
P4501-3A	CH2 Hi-Fi IN	8
P4501-2A	CH1 Hi-Fi IN	7
P1204-3	Hi-Fi IN GND	6
P6001-9	SERIAL REMOTE	5
P6001-7	EXT SYNC	4
P1204-3	GND	3
P4001-27A	TC IN	2
P4001-25A	TC OUT	1

P6904 (TO 34P/RS232C (OPTION))

P6952-1	TC IN	1
P6952-2	GND	2
P6952-3	TC OUT	3
P6952-4	GND	4

J6910 CH 1 Hi-Fi OUT, CH 2 Hi-Fi OUT

J6909 CH 1 N/H OUT, CH 2 N/H OUT

VIDEO OUT 2 J6906

J6905 VIDEO OUT 1

J6904 4P OUT

AG-7350 ONLY

R6903 75

J6902 VIDEO IN

R6902 75

R6901 75

J6901 4P IN

R6904 75

J6903 EXT SYNC

AG-7350 ONLY J6911 TC IN, TC OUT

J6912 MONITOR OUT, SERIAL REMOTE

AG-7350 ONLY

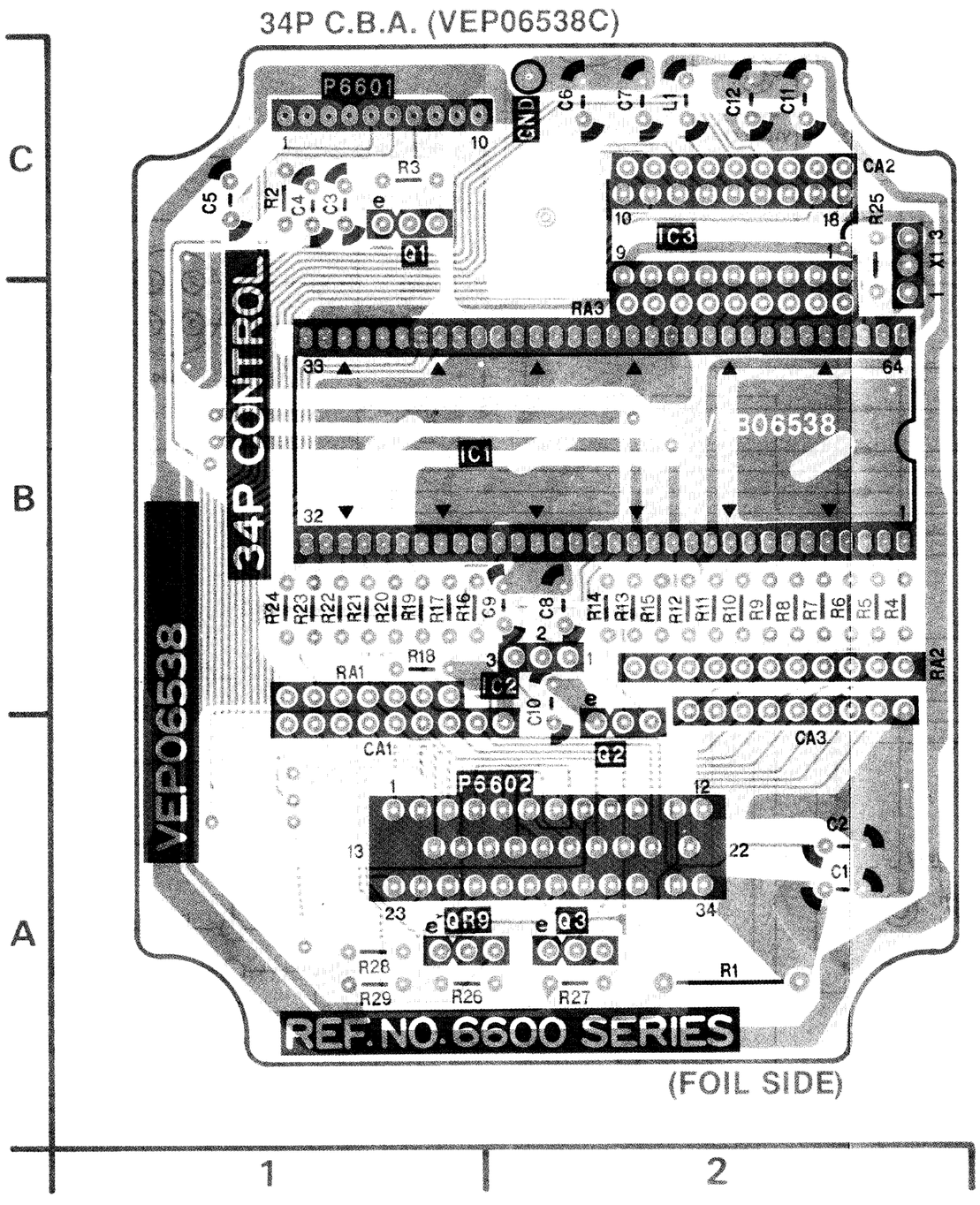
J6908 CH1 Hi-Fi IN, CH2 Hi-Fi IN

J6907 CH1 N/H IN, CH2 N/H IN

D C B A

1 2 3 4 5 6

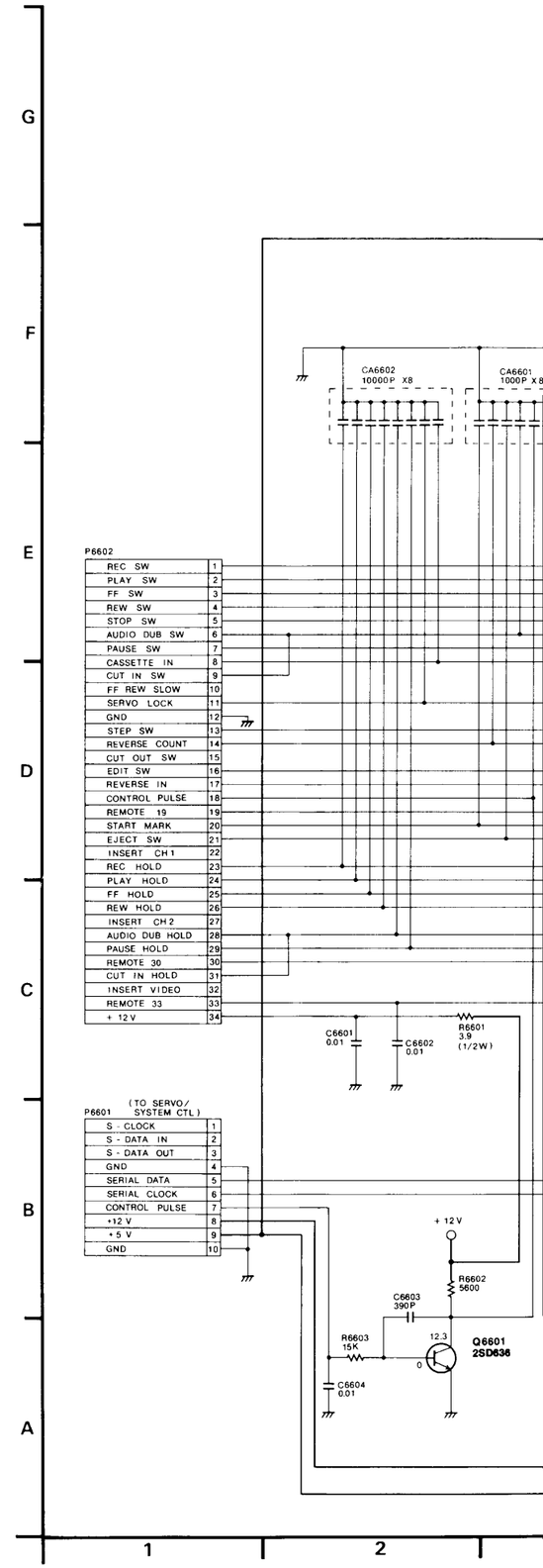
34P C.B.A. (VEP06538C)



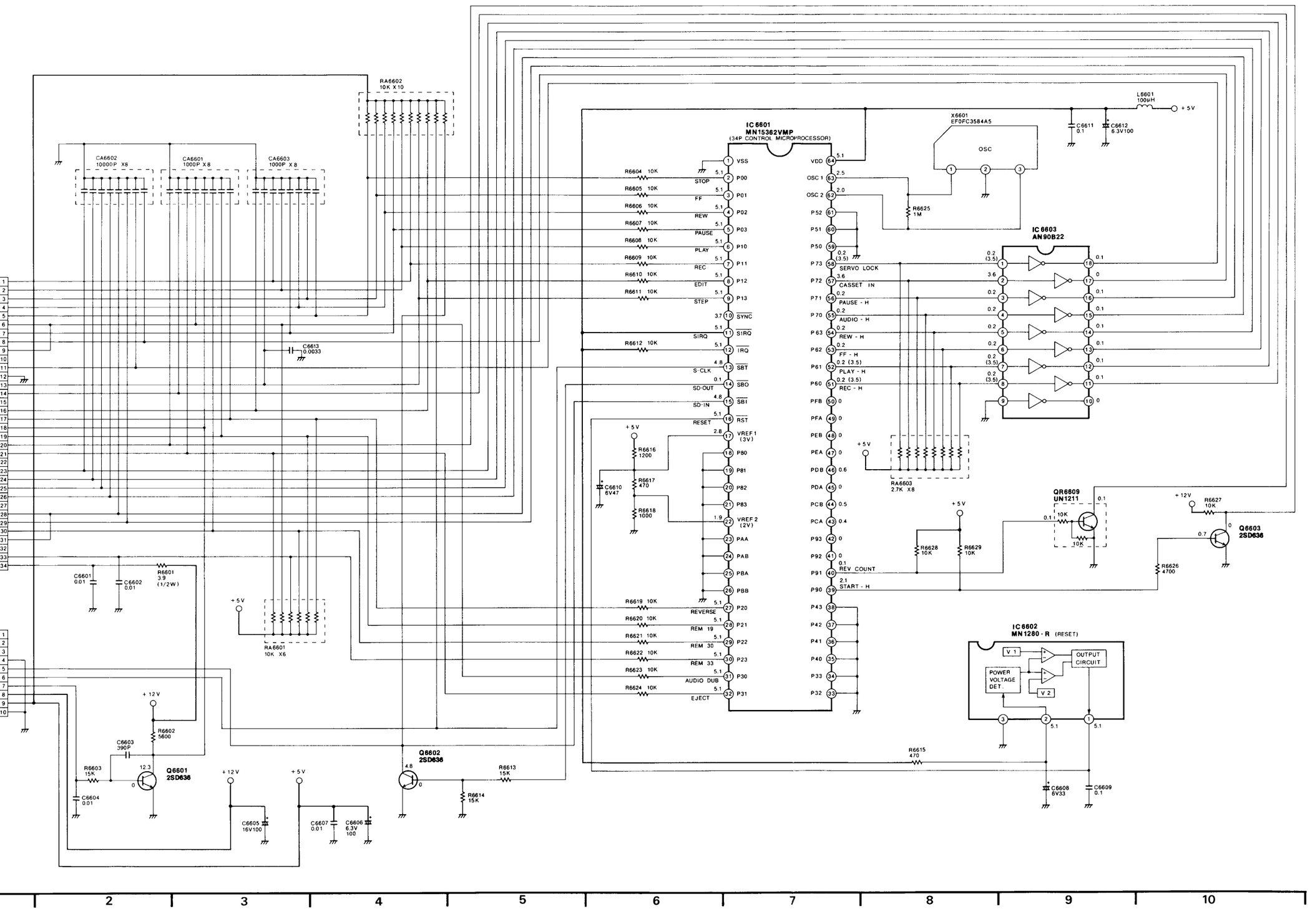
34P C.B.A.	
Transistor	
Q6601 Q6602 Q6603	C-1 A-2 A-2
Transistor & Resistor	
QR6609	A-1
Integrated Circuit	
IC6601 IC6602 IC6603	B-1 B-2 A-2
Connector	
P6601 P6602	C-1 A-2

ADDRESS INFORMATION

34P INTERFACE SCHEMATIC D

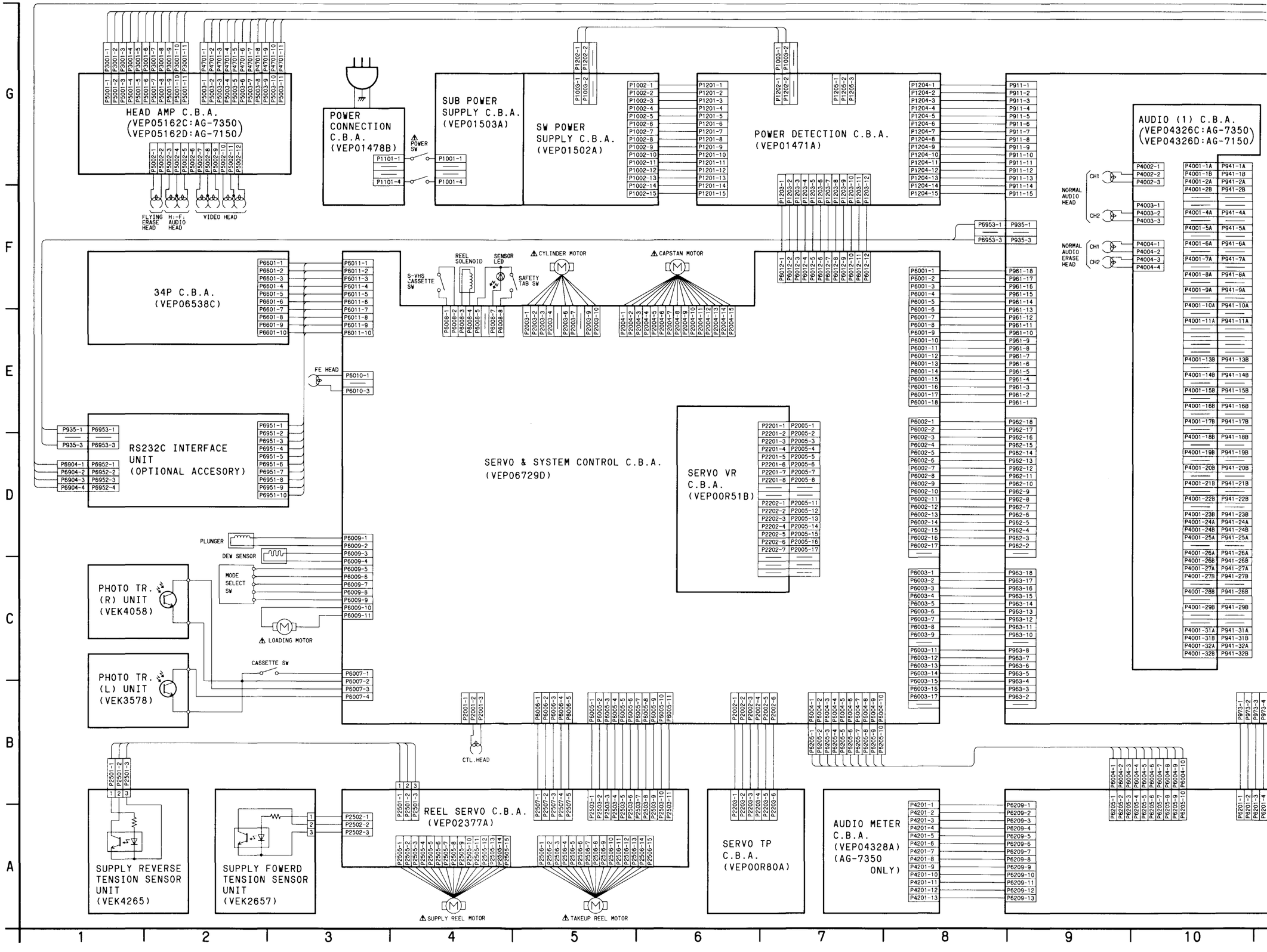


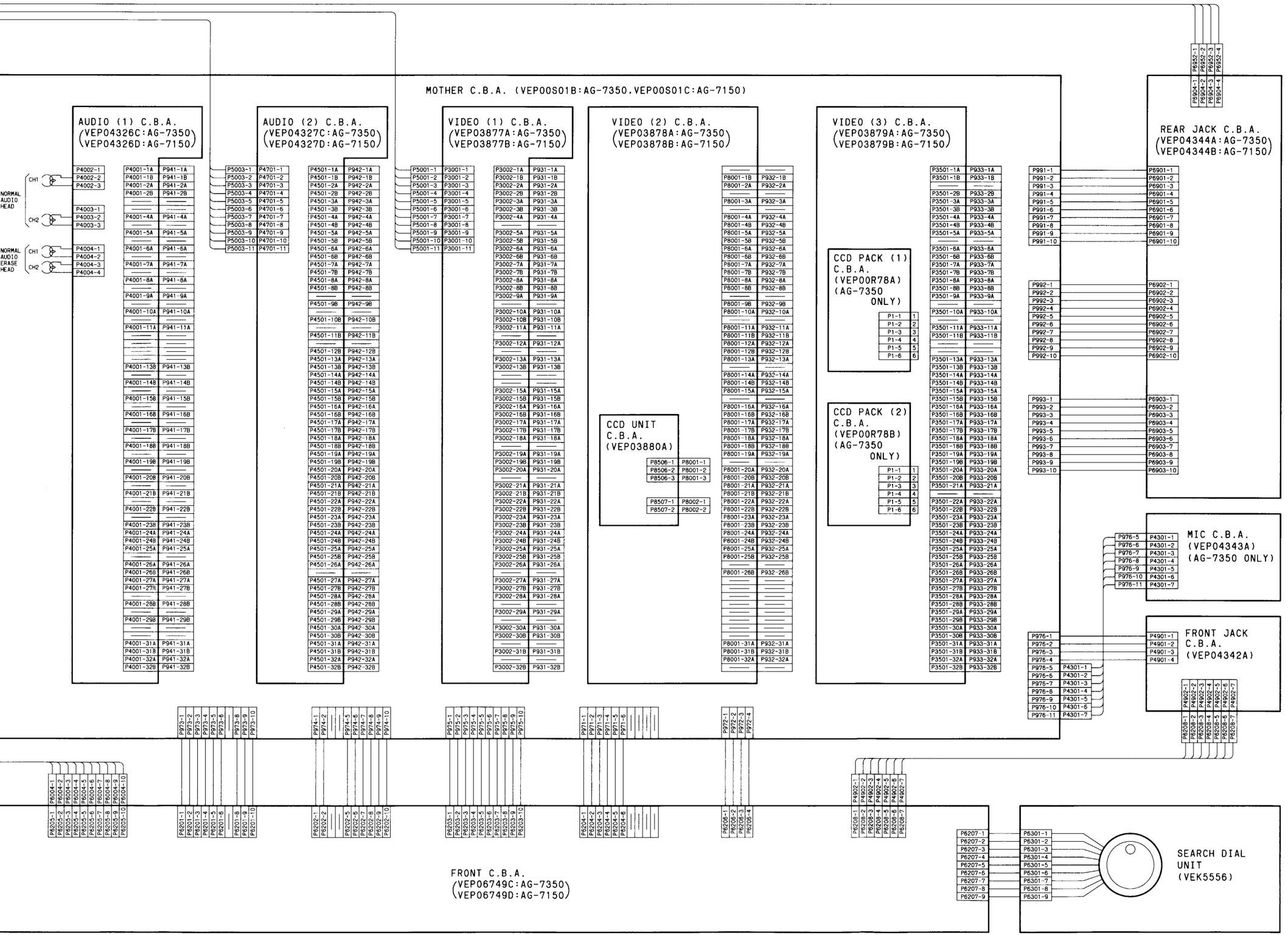
FACE SCHEMATIC DIAGRAM



2 3 4 5 6 7 8 9 10

INTERCONNECTION SCHEMATIC DIAGRAM




MOTHER C.B.A. (VEP00S01B:AG-7350,VEP00S01C:AG-7150)
AUDIO (1) C.B.A. (VEP04326C:AG-7350) (VEP04326D:AG-7150)
AUDIO (2) C.B.A. (VEP04327C:AG-7350) (VEP04327D:AG-7150)
VIDEO (1) C.B.A. (VEP03877A:AG-7350) (VEP03877B:AG-7150)
VIDEO (2) C.B.A. (VEP03878A:AG-7350) (VEP03878B:AG-7150)
VIDEO (3) C.B.A. (VEP03879A:AG-7350) (VEP03879B:AG-7150)
REAR JACK C.B.A. (VEP04344A:AG-7350) (VEP04344B:AG-7150)
CCD UNIT C.B.A. (VEP03880A)
CCD PACK (1) C.B.A. (VEP00R78A) (AG-7350 ONLY)
CCD PACK (2) C.B.A. (VEP00R78B) (AG-7350 ONLY)
MIC C.B.A. (VEP04343A) (AG-7350 ONLY)
FRONT JACK C.B.A. (VEP04342A)
FRONT C.B.A. (VEP06749C:AG-7350) (VEP06749D:AG-7150)
SEARCH DIAL UNIT (VEK5556)
NORMAL AUDIO HEAD
NORMAL AUDIO ERASE HEAD
CH1
CH2
9
10
11
12
13
14
15
16
17
18
19

Section 7

SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

CONTENTS

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.

NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THESE DIAGRAMS IS REC MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE OUT OF BRACKETS ON THESE DIAGRAMS IS STOP MODE.
MEASUREMENT SIGNAL ... PAL COLOUR SIGNAL. MEASUREMENT TAPE ... S-VHS TAPE.

IMPORTANT SAFETY NOTICE :
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

Section 8

EXPLODED VIEWS
AND
REPLACEMENT PARTS LISTS

CONTENTS

NOTE : Exploded Views are based on AG-7350

NOTES

1. ● 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.
2. IMPORTANT SAFETY NOTICE
   Components identified by "<!>" have special characteristics important for safety.
   When replacing any of these components, use only the original ones.
   Meaning of symbol "<!>" on this parts list is exactly the same as symbol ⚠on Schematic and Circuit Board Diagrams.
3. Unless otherwise specified ;
   All resistors are in (Ω), K=1,000Ω, M=1,000kΩ.
   All capacitors are in (F), U=10^{-6} F, P=10^{-12} F.
4. ITEM NUMBERS WITH CAPITAL LETER E
   Item numbers with capital leter E (Example:E1, E2,...) in Ref.No. column mean that the parts are listed with the E item numbers in the exploded views.
5. The main assembled parts are shown below C.B.A. marked with "■" .
6. When ordering parts, use parts No. only form Part No. column.
7. Printed circuit board assembly with mark (NLA) is no longer available after discontinuation of the product.
8. Abbreviations for parts ;

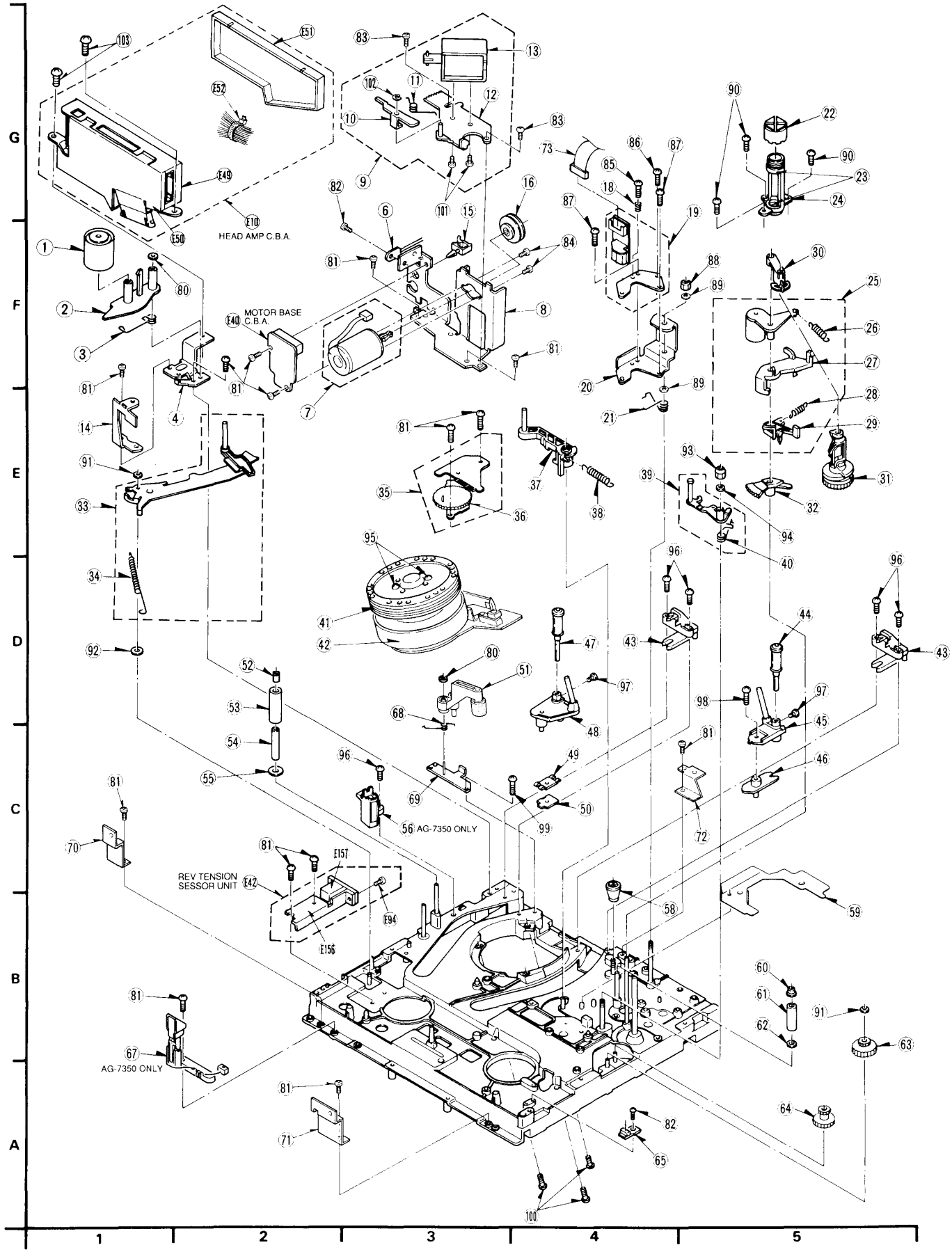
-- NAME --	-- DESCRIPTION --
C.CAPACITOR	CERAMIC CAPACITOR
C.CAPACITOR CH	CERAMIC CHIP CAPACITOR
E.CAPACITOR	ELECTROLYTIC CAPACITOR
G.CAPACITOR	GLASS CAPACITOR
M.CAPACITOR	MICA CAPACITOR
P.CAPACITOR	PLASTIC FILM CAPACITOR
S.CAPACITOR	SEMI-CONDUCTOR CAPACITOR
T.CAPACITOR	TANTALUM CAPACITOR
TRIMMER	TRIMMER
C.RESISTOR	CARBON RESISTOR
F.RESISTOR	FUSE RESISTOR
M.RESISTOR	METAL OXSIDE RESISTOR
M.RESISTOR CH	METAL OXSIDE CHIP RESISTOR
S.RESISTOR	SOLID RESISTOR
V.RESISTOR	VARIABLE RESISTOR
W.RESISTOR	WIRE WOUND RESISTOR
COMBI. TR-R	TRANSITOR-RESISTOR COMBINATION PARTS
COMBI. R-R	RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R-L	CAPACITOR-COIL COMBINATION PARTS
C.B.A.	CIRCUIT BOARD ASSEMBLY

SERVICING FIXTURE & TOOLS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VFM8180HADH	PAL VHS ALIGNMENT TAPE	1	
	VFM8080HQFP	NTSC VHS ALIGNMENT TAPE	1	
	VFK0329	POST ADJ. SCREWDRIVER	1	
	VFK0132	BACK TENSION METER	1	(T2-H7-UM)
		(TENTELOMETER, MADE IN		
		U.S.A.)		
	VFK0191	POST ADJ. PLATE	1	
	VFK0133	DIAL TORQUE GAUGE	1	
	VFK0180	PLASTIC CLAMPER ONLY	1	
	VFK0134	ADAPTOR FOR VFK0133	1	
	VFK0190	REEL TABLE HEIGHT GAUGE	1	
	VFK0236	TENSION POST ADJ. FIXTURE	1	
	VFK0578	TENSION SENSOR ADJ. FIXTURE	1	
	VFK0328	H-POSITION ADJ. SCREWDRIVER	1	
	VFK0330	FINE ADJ. SCREWDRIVER	1	
		(3mm PHI)		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VFK0335	RETAINING RING REMOVER	1	
		(3mm/4mm)		
	VFK0326	HEX. WRENCH SET	1	
	VFK0343	CHECK LIGHT	1	
	MOR265	MOLYTONE GREASE (BLACK)	1	
	VFK0680	S.C.R. GREASE (WHITE)	1	
	VFK27	HEAD CLEANING STICK	1	
	VFK0344	POST HEIGHT ADJ. FIXTURE	1	
	VFK0269	L TYPE SCREWDRIVER	1	
	VFK66	FAN TYPE TENSION GAUGE	1	
	VFK0684	EXTENDER	1	FOR MOTHER BOARD
				CHECKING
	VFK0685	EXTENDER	1	FOR FRONT BOARD
				CHECKING

EXPLODED VIEWS ❶ *Chassis Parts Section*



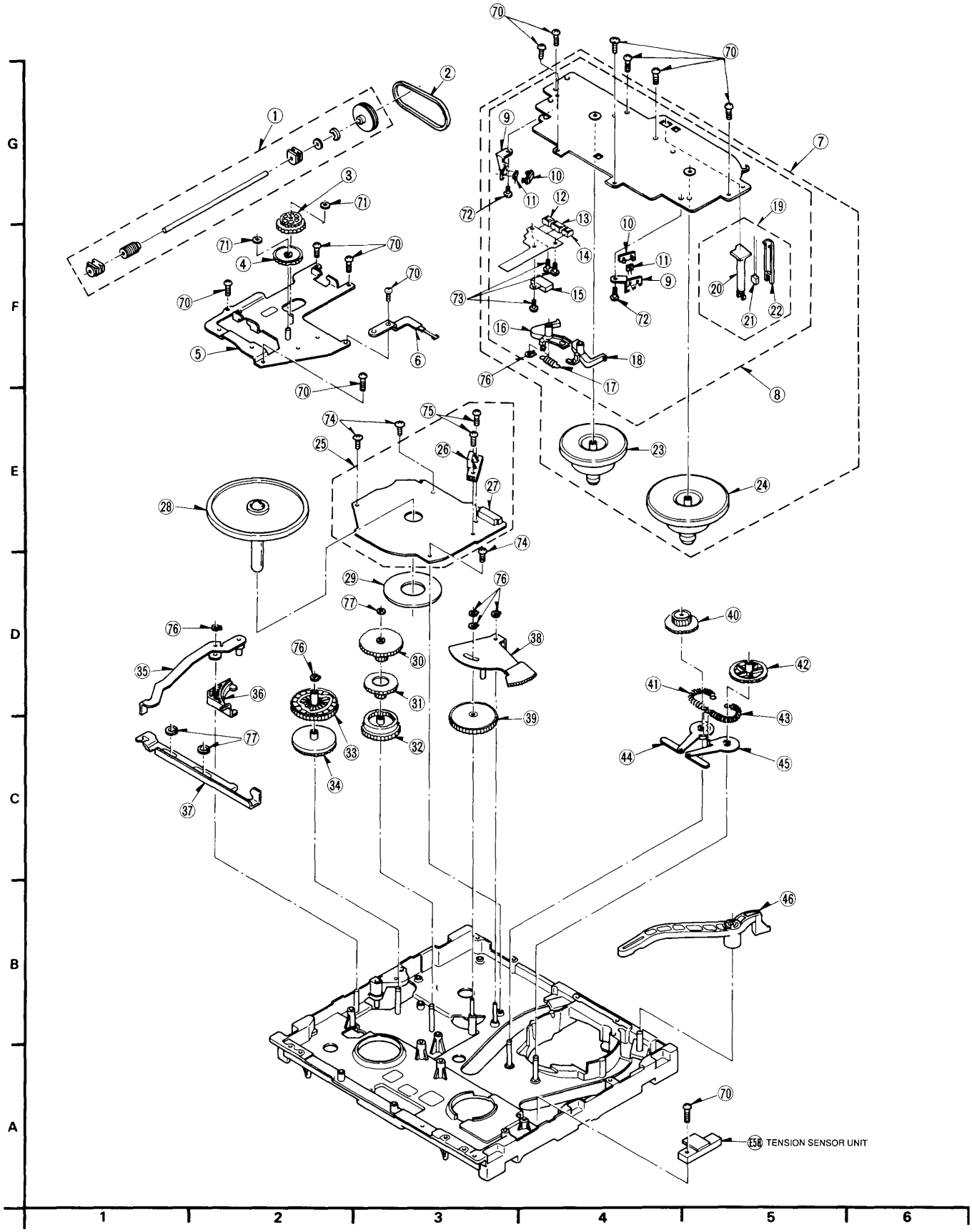
MECHANICAL REPLACEMENT PARTS LIST

1. Chassis Parts Section

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1-1	VXP1075	IMPEDANCE ROLLER UNIT	1	
1-2	VML2293	IMPEDANCE ROLLER ARM	1	
1-3	VMB1976	IMPEDANCE SPRING	1	
1-4	VMA7982	HEAD AMP ANGLE (L)	1	
1-6	VEK3185	HUMIDITY RESISTOR UNIT	1	<R>
1-7	VFM0360	LOADING MOTOR UNIT	1	<M><R>
1-8	VMA8290	MOTOR BASE	1	
1-9	VXA3657	SOLENOID BASE UNIT	1	<R>
1-10	VML2299	CAM LEVER	1	
1-11	VMB1979	CAM LEVER SPRING	1	
1-12	VXA3658	SOLENOID BASE (1) UNIT	1	
1-13	VSJ0092	PINCTH SOLENOID	1	
1-14	VMA8095	IMPEDANS ROLLER SUPPORT	1	
		ANGLE		
1-15	VJF0013	MINI CLAMPER	1	
1-16	VDP1319	MOTOR PULLEY	1	
1-18	VMB1251	ADJUST SPRING	1	
1-19	VED0107	A/C HEAD (1) UNIT	1	FOR AG-7350-E/B
				<M><R>
1-19	VED0116	A/C HEAD (1) UNIT	1	FOR AG-7150-E/B
				<M><R>
1-20	VXA3649	A/C HEAD BASE UNIT	1	
1-21	VMB1567	A/C HEIGHT SPRING	1	
1-22	VXQ0006	THRUST SCREW UNIT	1	
1-23	VMX1033	OIL SEAL	2	
1-24	VXD0133	HOUSING UNIT	1	
1-25	VXL1892	PRESSURE ROLLER UNIT	1	<M><R>
1-26	VMB1977	PINCH PRESSURE SPRING	1	
1-27	VXL1893	PINCH PRESSURE ARM	1	
1-28	VMB1569	PINCH ARM SPRING	1	
1-29	VML1874	PINCH LIFT ARM	1	
1-30	VMX1353	PINCH CAM ARM	1	
1-31	VDG0577	PINCH CAM	1	
1-32	VDG0651	PULL OUT SECTOR GEAR	1	
1-33	VXL2089	TENSION ARM UNIT	1	
1-34	VMB1975	TENSION SPRING	1	
1-35	VEK4171	MECHANISM CONNECTION UNIT	1	
1-36	VSS0257	MODE SWITCH	1	<M><R>
1-37	VXL1857	SUB LOADING ARM (1) UNIT	1	
1-38	VMB1566	SUB POST SPRING	1	
1-39	VXL2074	P5 UNIT	1	
1-40	VMB1554	P5 SPRING	1	
1-41	VEH0437	UPPER CYLINDER UNIT	1	FOR AG-7350-E/B
				<M><R>
1-41	VEH0452	UPPER CYLINDER UNIT	1	FOR AG-7150-E/B
				<M><R>
1-42	VEG0909	LOWER CYLINDER UNIT	1	FOR AG-7350-E/B
				<M><R>
1-42	VEG0911	LOWER CYLINDER UNIT	1	FOR AG-7150-E/B
				<M><R>
1-43	VMD0910	POST STOPPER	2	
1-44	VXP1094	ROLLER POST (T) UNIT	1	
1-45	VXA3213	INCLINED BASE (T) (1) UNIT	1	
1-46	VXA2687	INCLINED ADJUSTMENT PLATE U	1	
1-47	VXP1093	ROLLER POST (S) UNIT	1	
1-48	VXA3249	INCLINED BASE (S) (2) UNIT	1	
1-49	VMA7029	HOLDER PLATE (S)	1	
1-50	VMA7660	PLATE	1	
1-51	VXL1979	HEAD CLEANING UNIT	1	<M><R>
1-52	VMX1088	UPPER LIMITER	1	
1-53	VDP1276	SUPPLY ROLLER	1	
1-54	VMX1581	P1 COLIAR	1	
1-55	VMX1533	LOWER LIMITER	1	
1-56	VBS0038	FE HEAD	1	AG-7350-E/B ONLY
				<M><R>
1-58	VHN0110	ADJUST NUT	1	
1-59	VXA3871	SHIELD PLATE UNIT	1	
1-60	VMX1544	P4 UPPER LIMITER	1	
1-61	VMX1568	P4 SLEEVE	1	
1-62	VMX1534	P4 LOWER LIMITER	1	
1-63	VDG0664	CONNECTION GEAR	1	
1-64	VDG0483	PINCH SPEED DOWN GEAR	1	
1-65	VES0503	S-VHS CASSETTE DETECT SW	1	<R>
1-67	VES0639	SAFETY SWITCH	1	AG-7350-E/B ONLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1-68	VMB1996	CLEANING SPRING	1	
1-69	VXA3980	HEAD CLEANING PLATE UNIT	1	
1-70	VMA6895	MOUNT PLATE (L)	1	
1-71	VMA6896	MOUNT PLATE (R)	1	
1-72	VMA8593	HEAD AMP ANGLE (R)	1	
1-73	VEE7395	FLEXIBLE CABLE	1	AG-7350-E/B ONLY
1-73	VEE7422	FLEXIBLE CABLE	1	AG-7150-E/B ONLY
1-80	VMX1079	CUT WASHER	2	
1-81	XTV26+6F	SCREW	12	
1-82	XTV2+4F	SCREW	2	
1-83	XYN26+F5FZ	SCREW	2	
1-84	XSN3+3.5	SCREW	2	
1-85	VHD0322	SCREW	1	
1-86	VHD0089B	SCREW	1	
1-87	XSN3D6FZ	SCREW	2	
1-88	VHN0063	M4 NYLON NUT	1	
1-89	XWE4	M4 NYLON WASHER	2	
1-90	VHD0374	SCREW	3	
1-91	VMX0653	CUT WASHER	3	
1-92	XWGV3D6G	POLLY SLIDER WASHER	1	
1-93	VHN0023	M3 NYLON NUT	1	
1-94	XWE3VW	M3 WASHER	1	
1-95	VHD0425	SCREW	2	
1-96	XTV26+10F	SCREW	5	
1-97	VHD0133	SCREW	2	
1-98	XYN26+F6FZ	SCREW	1	
1-99	XTN3+6FFZ	SCREW	1	
1-100	VHD0342	SCREW	3	
1-101	XYN26+C4	SCREW	2	
1-102	XUC25FP	E RING	1	
1-103	XTW3+8LR	SCREW	2	

❷ *Moving Mechanism Section*



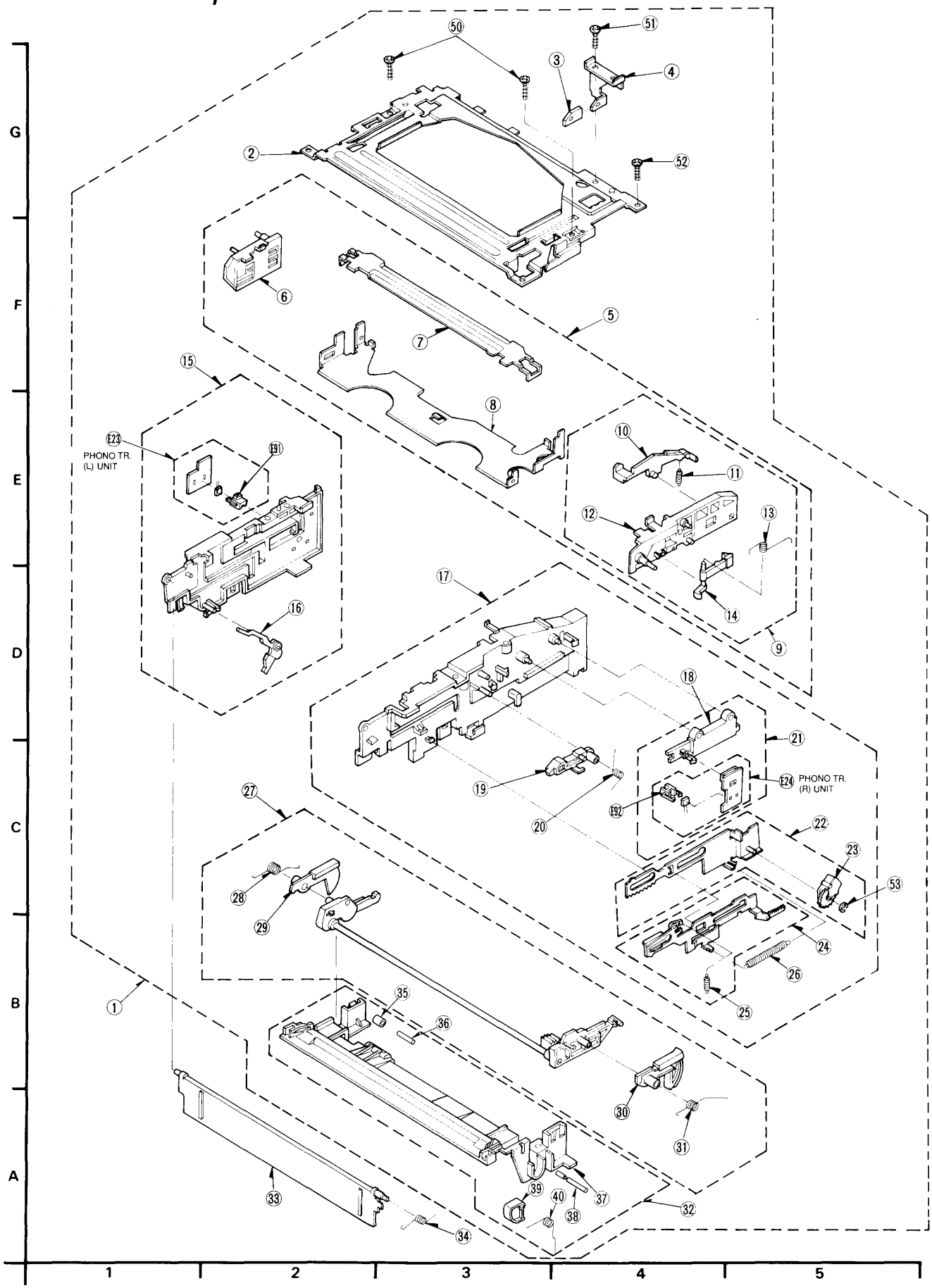
2. Moving Mechanism Section

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
2-1	VXP1082	WORM SHAFT UNIT	1	
2-2	VDV0228	LOADING BELT	1	<M><R>
2-3	VDG0581	WORM WHEEL	1	
2-4	VDG0582	INTERMEDIATE GEAR	1	
2-5	VXA3646	GEAR BASE (1) UNIT	1	
2-6	VXS0098	EARTH SPRING	1	
2-7	VEM0378	REEL MOTOR UNIT	1	<M><R>
2-8	VXA4109	STATOR BASE UNIT	1	
2-9	VMD0611	FG SUPPORT (1)	2	
2-10	VMD0621	FG SUPPORT (2)	2	
2-11	HW-300B	HOLE IC	2	<R>
2-12	VJP1229R	CONNECTOR (2P)	1	
2-13	VJP1235T	CONNECTOR (8P)	1	
2-14	VJP1229T	CONNECTOR (2P)	1	
2-15	VSJ0066	SOLENOID	1	
2-16	VXZ0270	MAIN BRAKE (S) UNIT	1	<M><R>
2-17	VMB1978	BRAKE SPRING	1	
2-18	VXZ0271	MAIN BLAKE (T) UNIT	1	<M><R>
2-19	VEK4164	LED UNIT	1	
2-20	VMX1565	LED HOLDER (A)	1	
2-21	GL450	LED	1	<R>
2-22	VMX0683	LED HOLDER (L)	1	
2-23	VXR0187	TAKEUP REEL TABLE UNIT	1	<R>
2-24	VXR0186	SUPPLY REEL TABLE UNIT	1	<R>
2-25	VEK4105	STATOR UNIT	1	
2-26	VBK0048	MR HEAD	1	<R>
2-27	VJP1902	CONNECTOR	1	
2-28	VXP1328	ROTOR UNIT	1	
2-29	VMA6847	SUB PLATE	1	
2-30	VDG0580	CENTER GEAR	1	
2-31	VXP0878	RETANER GEAR UNIT	1	
2-32	VDG0342	RING GEAR	1	
2-33	VDG0578	MAIN CAM GEAR	1	
2-34	VDG0343	SUB CAM GEAR	1	
2-35	VXL1895	CAM FOLLOWER ARM UNIT	1	
2-36	VML1861	DETENT ARM	1	
2-37	VMM0218	MAIN ROD	1	
2-38	VXA3144	SECTOR GEAR UNIT	1	
2-39	VDG0579	LOADING CAM GEAR	1	
2-40	VDG0420	LOADING GEAR (T)	1	
2-41	VMB1555	LOADING SPRING (T)	1	
2-42	VDG0593	LOADING GEAR (S)	1	
2-43	VMB1746	LOADING SPRING (S)	1	
2-44	VXL1489	LOADING ARM (T) (1) UNIT	1	
2-45	VXL1487	LOADING ARM (S) (1) UNIT	1	
2-46	VML2304	CLEANING ROD	1	
2-70	XTV26+6F	SCREW	12	
2-71	VMX0653	CUT WASHER	2	
2-72	XYN2+F5	SCREW	2	
2-73	XSN26+4	SCREW	3	
2-74	XYEV0004	SCREW	3	
2-75	XYNV0015	SCREW	2	
2-76	XUEV3VW	WASHER	6	
2-77	VMX1079	CUT WASHER	3	

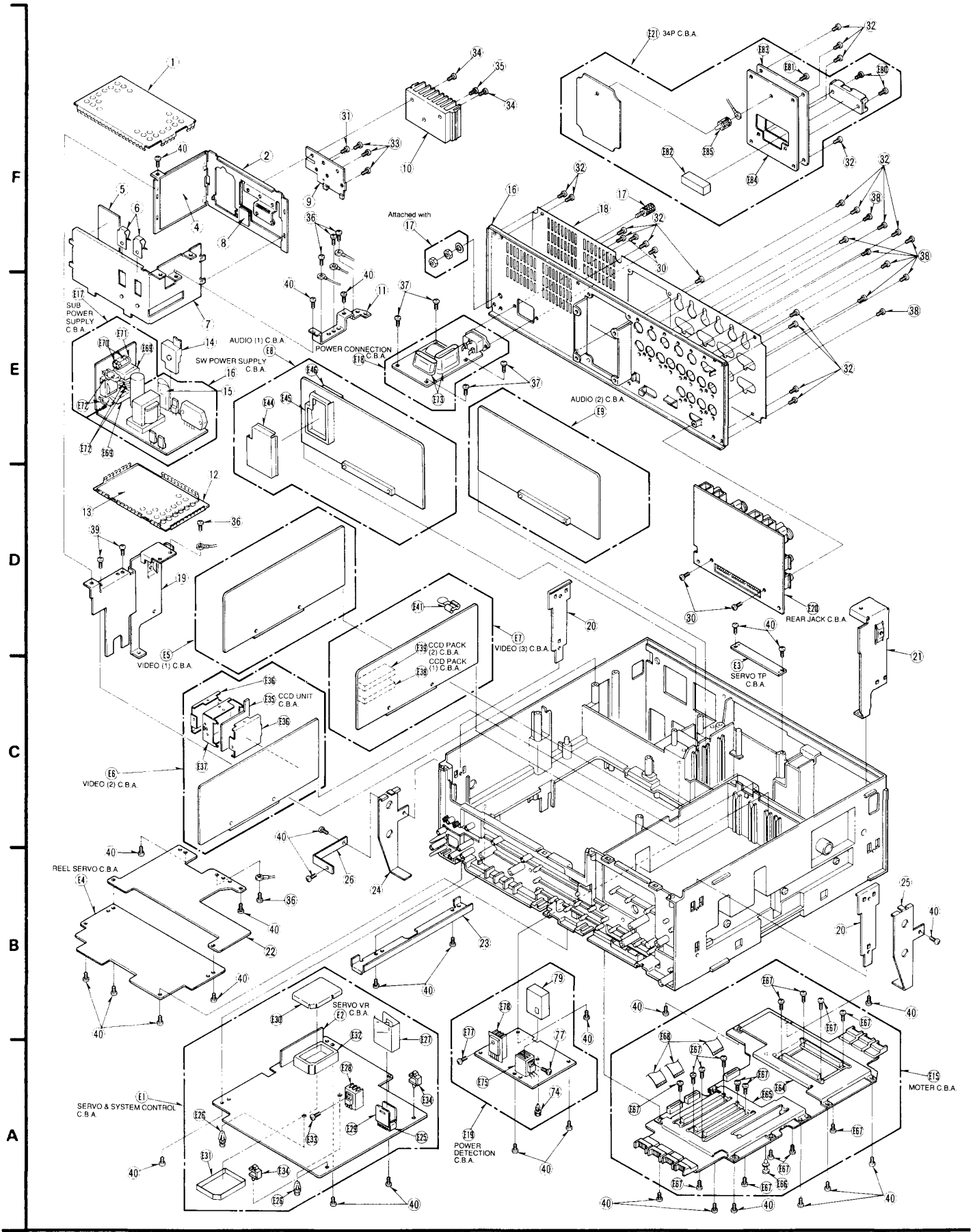
3. Cassette Compartment Section

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
3-1	VXA4504	CASSETTE COMPERTMENT UNIT	1	<R>
3-2	VMA8166	TOP PLATE	1	
3-3	VMD1384	CASSETTE HOLDER CAP	1	
3-4	VMA7992	CASSETTE HOLDER ANGLE	1	
3-5	VXA3690	CASSETTE HOLDER UNIT	1	
3-6	VMD1387	HOLDER GUIDE	1	
3-7	VXA3691	HOLDER ANGLE UNIT	1	
3-8	VMA7989	CASSETTE HOLDER	1	
3-9	VMA3692	HOLDER GUIDE (R) UNIT	1	
3-10	VML1882	DOOR OPEN LEVER	1	
3-11	VMB1584	DOOR OPEN LEVER SPRING	1	
3-12	VMD1386	HOLDER GUIDE (R)	1	
3-13	VMB2063	RELEASE SPRING	1	
3-14	VML2306	RELEASE LEVER	1	
3-15	VXA3694	SIDE PLATE (L) UNIT	1	
3-16	VML2305	OPENER LEVER	1	
3-17	VXA3693	SIDE PLATE (R) UNIT	1	
3-18	VSS0258	SLIDE SWITCH	1	<R>
3-19	VML2288	DOWN SUPPORT LEVER	1	
3-20	VMB1961	DOWN SUPPORT SPRING	1	
3-21	VXA3498	SLIDE SWITCH UNIT	1	
3-22	VXA3696	MAIN RACK UNIT	1	
3-23	VDG0737	DAMPER	1	
3-24	VXA3697	SUB RACK UNIT	1	
3-25	VMB1780	RACK C SPRING	1	
3-26	VMB1997	CLUTCH SPRING	1	
3-27	VXP1089	MAIN SHAFT UNIT	1	
3-28	VMB1999	SUB WIPER SPRING (L)	1	
3-29	VML1878	SUB WIPER ARM (L)	1	
3-30	VML1879	SUB WIPER ARM (R)	1	
3-31	VMB1998	SUB WIPER SPRING (R)	1	
3-32	VXA4500	CASSETTE GUIDE UNIT	1	
3-33	VKF1243	BLINDER PANEL	1	<R>
3-34	VMB1258	BLINDER SPRING	1	
3-35	VDP1398	CASSETTE ROLLER	1	
3-36	VMS3061	ROLLER SHAFT	1	
3-37	VMA8460	CASSETTE GUIDE	1	
3-38	VMS4644	SHAFT	1	
3-39	VMD1773	CASSETTE SUPPORT	1	
3-40	VMB2329	SUPPORT SPRING	1	
3-50	XTV26+8G	SCREW	2	
3-51	XTV26+6F	SCREW	1	
3-52	XTV3+8G	SCREW	1	
3-53	XUC2.5FP	E RING	1	

❸ *Cassette Compartment Section*



❹ *Chassis & Frame Section*



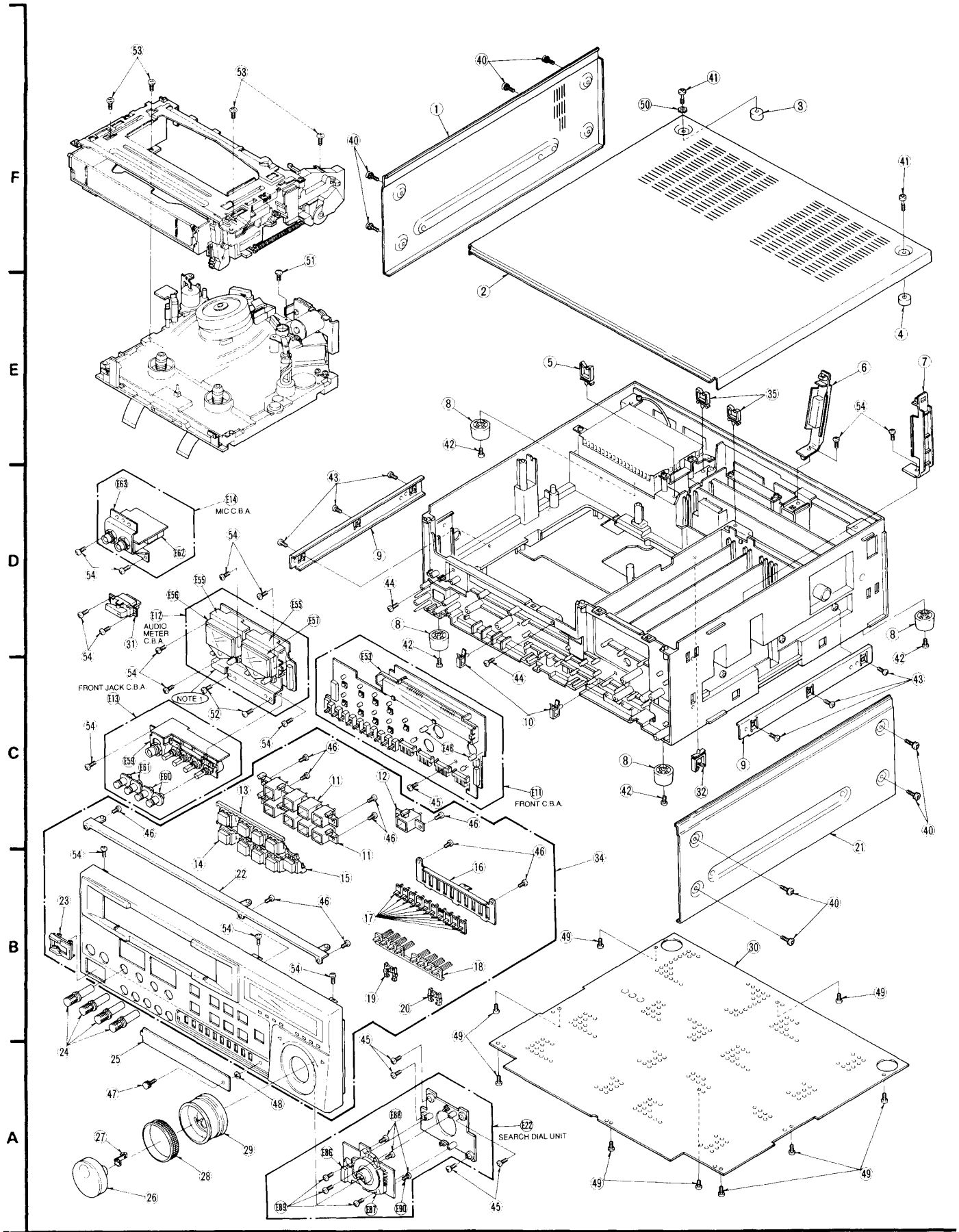
4. Chassis & Frame Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
4-1		VSC2754	POWER UNIT SHIELD CASE	1	
			(UPPER)		
4-2		VSC2756	POWER SHIELD CASE (REAR)	1	
4-4		VMZ1358	INSULATION SHEET	1	
4-5		VMZ1394	INSULATION SHEET	1	
4-6		VMC0357	TR SPRING	2	
4-7		VSC2757	POWER SHIELD CASE (FRONT)	1	
4-8		VMZ1393	INSULATION SHEET	1	
4-9		VSC2827	POWER SHIELD PLATE	1	
4-10		VSC2778	HEAT SINK	1	
4-11		VMP2669	EARTH ANGLE	1	
4-12		VSC2755	POWER SHIELD CASE (LOWER)	1	
4-13		VMZ1357	INSULATION SHEET	1	
4-14		VGQ1615	TR HOLDER	1	
4-15		VWZ0074	IC COVER	1	
4-16		VJH0632	REAR JACK ANGLE	1	
4-17		VJH0082	GND TERMINAL	1	
4-18		VGH2859	REAR JACK PLATE	1	FOR AG-7350-E/B
4-18		VGH2860	REAR JACK PLATE	1	FOR AG-7150-E/B
4-19		VMP3221	TOP ANGLE (LEFT)	1	
4-20		VXA4649	SIDE ANGLE UNIT	2	
4-21		VMP3222	TOP ANGLE (RIGHT)	1	
4-22		VMP3216	MECHNISM SHIELD PLATE	1	
4-23		VMP3232	POWER CORD SHIELD ANGLE	1	
4-24		VMP3648	EARTH ANGLE (L)	1	
4-25		VMP3649	EARTH ANGLE (R)	1	
4-26		VMP3650	EARTH ANGLE (MIC)	1	
4-30		XTB3+10FZ	SCREW	2	
4-31		XTS3+8J	SCREW	1	
4-32		XTV3+8FFZ	SCREW	18	
4-33		XTS3+16F	SCREW	3	
4-34		XTV3+12F	SCREW	2	
4-35		XTV3+12J	SCREW	1	
4-36		XYE3+EF8FR	SCREW	5	
4-37		XTW3+10JFR	SCREW	4	
4-38		XTV3+10JFZ	SCREW	8	FOR AG-7350-E/B
4-38		XTV3+10JFZ	SCREW	5	FOR AG-7150-E/B
4-39		XTV3+10J	SCREW	2	
4-40		XTV3+10JFR	SCREW	30	

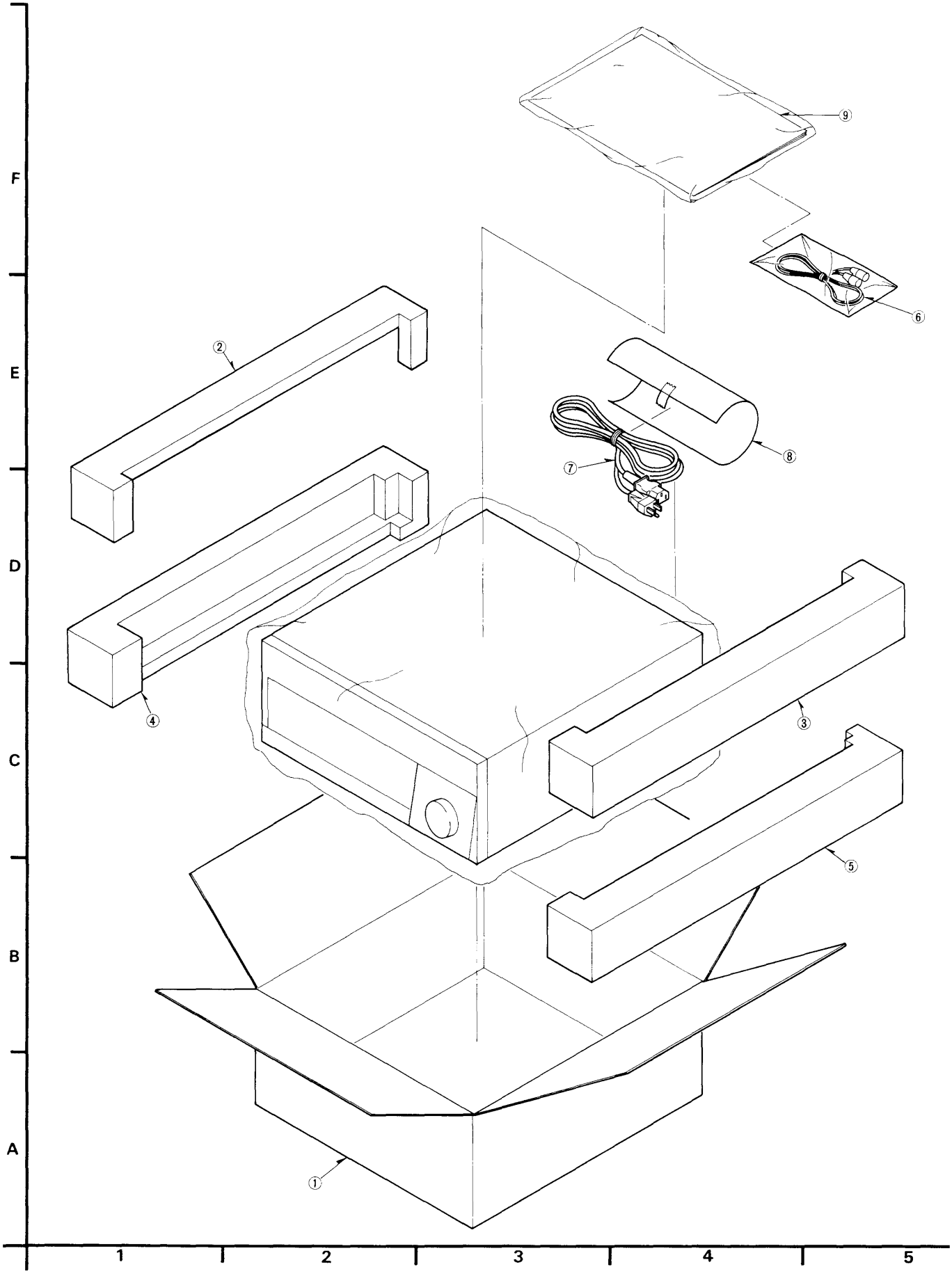
5. Casing Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
5-1		VGM0799	SIDE PANEL (LEFT)	1	
5-2		VGM0798	TOP PANEL	1	
5-3		VMX1789	TOP PANEL SPACER	1	
5-4		VMX0871	TOP PANEL SPACER	1	
5-5		VJF0004	MINI CLAMPER	1	
5-6		VKC0393	C.B. HOLD PIECE (A)	1	
5-7		VKC0394	C.B. HOLD PIECE (B)	1	
5-8		VKA0117	RUBBER FOOT	4	
5-9		VXA4551	SUPPORT ANGLE UNIT	2	
5-10		VJF0013	MINI CLAMPER	2	
5-11		VGF0418	LED HOLDER (A)	2	
5-12		VGF0419	LED HOLDER (B)	1	
5-13		VGU5600	OPERATION BUTTON (A)	1	FOR AG-7350-E/B
5-13		VGU5634	OPERATION BUTTON (A)	1	FOR AG-7150-E/B
5-14		VGU5633	OPERATION BUTTON (A)	1	
5-15		VGU5601	OPERATION BUTTON (B)	1	
5-16		VMP3226	KNOB HOLD ANGLE	1	
5-17		VGU5603	SLIDE KNOB	10	FOR AG-7350-E/B
5-17		VGU5603	SLIDE KNOB	7	FOR AG-7150-E/B
5-18		VGU5602	COUNTER BUTTON	1	
5-19		VGL0508	REV. PANELIGHT	1	
5-20		VGL0506	FWD PANELIGHT	1	
5-21		VGM0800	SIDE PANEL (RIGHT)	1	
5-22		VMP3225	FRONT SUPPORT ANGLE	1	
5-23		VKW1501	POWER SWITCH COVER	1	
5-24		VGU5604	VR KNOB	4	
5-25		VKW1499	OPERATION AREA COVER	1	
5-26		VGU4604	JOG DIAL KNOB	1	
5-27		VMC0444	KNOB SPRING	1	
5-28		VMG0476	SEARCH DIAL RUBBER	1	
5-29		VGU4605	SEARCH DIAL KNOB	1	
5-30		VKM2737	BOTTOM PLATE	1	
5-31		VES0654	POWER SWITCH UNIT	1	
5-32		VJF0022	CLAMPER	1	
5-33		VMP3282	METER ANGLE	1	FOR AG-7150-E/B
5-34		VYP3837	FRONT PANEL UNIT	1	FOR AG-7350-E/B
5-34		VYP3838	FRONT PANEL UNIT	1	FOR AG-7150-E/B
5-35		VJF0004	MINI CLAMPER	2	
5-40		VHD0426	SCREW	8	
5-41		VHD0222	SCREW	2	
5-42		XTV3+16G	SCREW	4	
5-43		XTV3+10J	SCREW	6	
5-44		XTV4+8F	SCREW	2	
5-45		XTV4+10JFR	SCREW	5	
5-46		XTV3+8J	SCREW	10	
5-47		VHD0679	SCREW	1	
5-48		VMX1558	NYLON WASHER	1	
5-49		VHD0059	SCREW	9	
5-50		XWC4BFY	WASHER (M4)	1	
5-51		XTV4+12J	SCREW	1	
5-52		XTV3+8F	SCREW	2	
5-53		XTV26+8FR	SCREW	4	
5-54		XTV3+10JFR	SCREW	15	

❺ *Casing Parts Section*



❻ *Packing Parts Section*



6. Packing Parts Section

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
6-1		VPG6203	PACKING CASE	1	FOR AG-7350-E
6-1		VPG6204	PACKING CASE	1	FOR AG-7350-B
6-1		VPG6205	PACKING CASE	1	FOR AG-7150-B
6-1		VPG6206	PACKING CASE	1	FOR AG-7150-B
6-2		VPN3177	CUSHION (LEFT TOP)	1	
6-3		VPN3178	CUSHION (RIGHT TOP)	1	
6-4		VPN3179	CUSHION (LEFT BOTTOM)	1	
6-5		VPN3180	CUSHION (RIGHT BOTTOM)	1	
6-6		VJA0579	4P CABLE	1	
6-7		VJA0701	POWER CORD	1	FOR AG-7350-E
					FOR AG-7150-E
6-7		VJA0702	POWER CORD	1	FOR AG-7350-B
					FOR AG-7150-B
6-8		VPF0136	POWER CORD SHEET	1	
6-9		VQT4386	OPERATING INSTRUCTIONS	1	FOR AG-7350-E/B
			(ENGLISH)		FOR AG-7150-E/B
6-9		VQT4387	OPERATING INSTRUCTIONS	1	FOR AG-7350-E
			(FRENCH/GERMAN)		FOR AG-7150-E

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E1	VEP06729D	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		SERVO / SYSTEM CONTROL		INCLUDING THE
				SERVO VR (VEP00R51B)
E2	VEP00R51B	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		SERVO VR		PARTS LIST IS
				INCLUDED IN SERVO /
				SYSTEM CONTROL
				(VEP06729D)
E3	VEP00R80A	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		SERVO TEST POINT		
E4	VEP02377A	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		REEL SERVO		
E5	VEP03877A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		VIDEO (1)		
E5	VEP03877B	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7150-E/B
		VIDEO (1)		
E6	VEP03878A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		VIDEO (2)		INCLUDING THE
				CCD UNIT (VEP03880A)
E35	VEP03880A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		CCD UNIT		PARTS LIST IS
				INCLUDED IN
				VIDEO (2) (VEP03878A)
E6	VEP03878B	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7150-E/B
		VIDEO (2)		INCLUDING THE
				CCD UNIT (VEP03880A)
E35	VEP03880A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7150-E/B
		CCD UNIT		PARTS LIST IS
				INCLUDED IN
				VIDEO (2) (VEP03878A)
E7	VEP03879A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		VIDEO (3)		INCLUDING THE
				CCD PACK (1)
				(VEP00R78A)
				CCD PACK (2)
				(VEP00R78B)
E38	VEP00R78A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		CCD PACK (1)		PARTS LIST IS
E16	VEP01502A	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		SWITCHING POWER SUPPLY		
E17	VEP01503A	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		POWER SUPPLY SUB		
E18	VEP01478B	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		AC PLUG		
E19	VEP01471A	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		POWER DETECT		
E20	VEP04344A	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7350-E/B
		REAR JACK		
E20	VEP04344B	P.C.BOARD W/COMPONENT	1	(NLA)<R> AG-7150-E/B
		REAR JACK		
E21	VEP06538C	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		34PIN		
E22	VEK5556	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		SEARCH DIAL UNIT		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
E23	VEK3578	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		PHOTO TR (L) UNIT		
E24	VEK4058	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		PHOTO TR (R) UNIT		
E58	VEK2657	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		TENSION SENSOR UNIT		
E76	VEK4265	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		REV. TENSION SENSOR UNIT		
E93	VEK4163	P.C.BOARD W/COMPONENT	1	(NLA)<R>
		MOTOR BASE		
■	VEP06729D	P.C.BOARD W/COMPONENT		INCLUDING THE
		SERVO / SYSTEM CONTROL		SERVO VR (VEP00R51B)
BAT6001	VSB0004	BATTERY	1	
C1901,02	ECEA1EU331	E.CAPACITOR 25V 330U	2	
C1903	ECEA1VKA470	E.CAPACITOR 35V 47U	1	
C1904	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1905	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C1906	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C1907	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	1	
C1908-10	ECEA1HKA010	E.CAPACITOR 50V 1U	3	
C1911	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1912,13	ECEA1EU221	E.CAPACITOR 25V 220U	2	
C1914	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1915	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2001	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2002	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2003	ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2004	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2005,06	ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C2007	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2008	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C2009	ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C2010	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2011	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2013	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2015,16	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2017	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2018	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2019	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2020	ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2022,23	ECQV1H564JZ	P.CAPACITOR 50V 0.56U	2	
C2027	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2028	ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2029	ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2030	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2031	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C2032	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C2033	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2034	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2035	ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2036	ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2037,38	ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2039	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2040,41	ECEA1CKA330	E.CAPACITOR 16V 33U	2	
C2042	ECEA10247	E.CAPACITOR 10V 47U	1	
C2043,44	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	2	
C2045,46	ECQB1H472JF	P.CAPACITOR 50V 4700P	2	
C2047	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C2048	ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2049	ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C2050	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2051	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2052	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2053	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2054	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2055	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2056	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2057,58	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2059	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2060	ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2061	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2062-64	ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2065	ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C2066-68	ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	3	
C2069	ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2070	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2071	ECEA1EU101	E.CAPACITOR 25V 100U	1	
C2072	ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C2073	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C2074-76	ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2077-79	ECQB1H332JF	P.CAPACITOR 50V 3300P	3	
C2080-82	ECQB1H333JF	P.CAPACITOR 50V 0.033U	3	
C2083	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2084	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2085,86	ECEA1EU101	E.CAPACITOR 25V 100U	2	
C2087	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2088	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2089	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2090	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2091	ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C2092	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2093	ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C2094,95	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2096,97	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	2	
C2098,99	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2100-06	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	7	
C2107	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2108,09	ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C2110	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C2111	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2113	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2114	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2115	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C2116,17	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C6001	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C6003	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6004-06	ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C6007	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C6008	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6009	ECEA1CU102	E.CAPACITOR 16V 1000U	1	
C6010	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6011	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C6012	ECEA1CU102	E.CAPACITOR 16V 1000U	1	
C6014	ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C6015	ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C6016,17	ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C6018	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C6019	ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C6020	ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6021	ECEA1CN101S	E.CAPACITOR 16V 100U	1	
C6022	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6023	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6024	ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C6025,26	ECEA1ASS332Z	E.CAPACITOR 10V 3300U	2	
C6027	ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C6028	ECQB1H333JF	P.CAPACITOR 50V 0.033U	1	
C6029	ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C6030	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6031	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6032	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6033,34	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C6035,36	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6037,38	ECEA1CKA470	E.CAPACITOR 16V 47U	2	
C6039	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6040	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6041	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6043	ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C6044-46	ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6048	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6049,50	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6051	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6052	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C6053	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6054	ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C6056	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6057	ECEA1ASS3322	E.CAPACITOR 10V 3300U	1	
C6059,60	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
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D6010-12	MA151K	DIODE	3	<R>
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
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IC6012	MN1280R	IC	1	<R>
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J2004-08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
J2010	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J2012	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J6003	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J6007	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L1901,02	ELC10E014	COIL	2	
L1903	VLQ0460	COIL	1	
L2001	VLQ0460	COIL	1	
L2002	VLQEL05K102J	COIL 1UH	1	
L2003-05	VLQ0460	COIL	3	
L2006-10	VLQEL05K221J	COIL 220UH	5	
L2011-13	VLQ0460	COIL	3	
L6001	VLQEL05K471J	COIL 470UH	1	
L6002	VLQEL05K150J	COIL 15UH	1	
L6003-06	VLQEL05K221J	COIL 220UH	4	
L6007	VLQ0460	COIL	1	
P2001	VJP1230T	CONNECTOR(MALE) 3P	1	
P2002	VJP1233T	CONNECTOR(MALE) 6P	1	
P2003	VJP1237T	CONNECTOR(MALE) 10P	1	
P2004	VJP1932T	CONNECTOR(MALE) 15P	1	
P2201,02	VJR0477	PACK PIN	2	
P6001-03	VJS2123	CONNECTOR(FEMALE) 18P	3	
P6004	VJP1237T	CONNECTOR(MALE) 10P	1	
P6005	VJP1511T	CONNECTOR(MALE) 11P	1	
P6006	VJP1232T	CONNECTOR(MALE) 5P	1	
P6007	VJS2650A004Z	CONNECTOR(FEMALE)	1	
P6008	VJP1235T	CONNECTOR(MALE) 8P	1	
P6009	VJP1511T	CONNECTOR(MALE) 11P	1	
P6010	VJP1230G	CONNECTOR(MALE) 3P	1	
P6011	VJP1237T	CONNECTOR(MALE) 10P	1	
P6012	VJP1239T	CONNECTOR(MALE) 12P	1	
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Q1902,03	2SB772	TRANSISTOR	2	(P,Q,R)<R>
Q2001	2SD1275	TRANSISTOR	1	<R>
Q2002	MSB710-R	TRANSISTOR	1	<R>
Q2003,04	MSD601-R	TRANSISTOR	2	<R>
Q2005	MSC2295-B	TRANSISTOR	1	<R>
Q2006-08	MSD601-R	TRANSISTOR	3	<R>
Q2010,11	MSD601-R	TRANSISTOR	2	<R>
Q6001	2SD638	TRANSISTOR	1	(Q,R,S)<R>
Q6002	MSB710-R	TRANSISTOR	1	<R>
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Q6005,06	MSD601-R	TRANSISTOR	2	<R>
Q6007	2SD636-R	TRANSISTOR	1	(R)<R>
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Q6010-12	MSD601-R	TRANSISTOR	3	<R>
Q6013	2SB819	TRANSISTOR	1	(Q,R,S)<R>
Q6014,15	MSD601-R	TRANSISTOR	2	<R>
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R1901	ERQ12HJ3R9P	F.RESISTOR 1/2W 3.9	1	
R1902	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R1903	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R1904,05	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	2	
R1906	ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1907	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R1908	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R1909	ERX12SJR82	M.RESISTOR 1/2W 0.82	1	
R1910	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R1911	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2001	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2002	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2003	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2004	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2005	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2006	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R2007	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2008	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2013-15	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	3	
R2016	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2017,18	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2019	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2020	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2021	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2022	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2024	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2025,26	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2027	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2029	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2030	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2031	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2032	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2033	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R2034	ERJ6GEYG241	M.RESISTOR CH 1/10W 240	1	
R2035	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2036	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2037	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2038	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2039	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R2040	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2041	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2042	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2043	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2044,45	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2046,47	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R2048	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2049	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2050	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R2051	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2052	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2053		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2054		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2055		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2056		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2057		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2058		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R2059		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2060		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R2061,62		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R2063		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2064		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R2065		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2066		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2067		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2068		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R2069		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2070		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2071,72		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R2073		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2088		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R2089		ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2090		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R2093		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2094,95		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2096		ERX12SJR56	M.RESISTOR 1/2W 0.56	1	
R2097		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2098		ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R2099-01		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2102,03		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	2	
R2104		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R2105		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2106		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2107		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2108,09		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2110		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2112		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2113		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2116		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2119		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2120		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2121		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2122		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2123		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R2125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2127		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6001		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6004		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6005		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6006		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6007		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6008		ERDS1TJ153	C.RESISTOR 1/2W 15K	1	
R6009		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6010,11		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6012		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6013		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6014		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6015		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6016		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6017		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6018		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6019,20		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6021		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6022		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6023		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R6024		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6025		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6026,27		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	2	
R6028		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R6029		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6030		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R6031		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R6032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6033		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R6034		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6035		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6036		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6037		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6038		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6039		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6040		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R6041		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6042		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6043,44		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R6045		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6046		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6047		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6048,49		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6050		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6051		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6052		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6053		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6054		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6055-58		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R6060		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R6061		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6062		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6063		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R6064		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6065,66		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6067-73		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	7	
R6074,75		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R6076		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6077		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6078		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6079		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R6080		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R6081		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R6082,83		ERG1SJ300	M.RESISTOR 1W 30	2	
R6084		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6085		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6086,87		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	2	
R6088		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6089		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6090		ERDS1TJ2R2	C.RESISTOR 1/2W 2.2K	1	
R6091,92		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6093		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6094		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6095-98		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R6099		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R6100		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R6101		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R6102		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R6103		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6104,05		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6106		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6109		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6110		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6114		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6115		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6116		ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
R6117		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6118		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6119-27		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	9	
R6131		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6132		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6133		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R6134		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R6135		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6136		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R6137		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6138		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R6139		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R6140		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6141		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6144		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6150		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
SW6001		VSS0240	SWITCH	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
T6001		EIQ7QF002B	IF TRANSFORMER	1	
VR2001		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2003		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2201		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2202		EVMF6SA00B15	V.RESISTOR 100K	1	
VR2203		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2204-06		EVMF6SA00B15	V.RESISTOR 100K	3	
VR2207		EVMF6SA00B54	V.RESISTOR 50K	1	
VR2208		EVMF6SA00B23	V.RESISTOR 2K	1	
X1901		VSX0136	CRYSTAL OSCILLATOR	1	<R>
X2001		VSX0296	CRYSTAL OSCILLATOR	1	<R>
X6001		VSX0230	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E25		VMC0075	HEAT SINK ANGLE	1	
E26		VMX0985	SPACER	2	
E27		VMZ0960	HEAT SINK BARRIER	1	
E28		VSC1068	HEAT SINK	1	
E29		VSC1689	HEAT SINK	1	
E30		VSC2761	SHIELD (TOP)	1	
E31		VSC2763	SHIELD (BOTTOM)	1	
E32		VSC3427	SHIELD (MAIN)	1	
E33		XTV3+8F	SCREW	1	
E34		VKC0271	HINGE CLIP	2	
	■	VEP00R80A	P.C.BOARD W/COMPONENT		
			SERVO TEST POINT		
P2203		VJP1233T	CONNECTOR(MALE) 6P	1	
	■	VEP02377A	P.C.BOARD W/COMPONENT		
			REEL SERVO		
C2501		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C2502		ECQB1H222JF	P.CAPACITOR 50V 2200P	1	
C2503		ECEA1CKN220	E.CAPACITOR 16V 22U	1	
C2504		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2505		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C2506		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2508		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2509		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C2510		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2511		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2512		ECEA1CKN4R7	E.CAPACITOR 16V 4.7U	1	
C2513		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2514		ECEA1HKN4R7	E.CAPACITOR 50V 4.7U	1	
C2515		ECEA1HKN2R2	E.CAPACITOR 50V 2.2U	1	
C2516-18		ECEA1CKA220	E.CAPACITOR 16V 22U	3	
C2519		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2520		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2521		ECEA1CKA330	E.CAPACITOR 16V 33U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2522		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2523		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C2524,25		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C2526-28		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C2529		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2530		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2531		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C2532		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2533		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2534		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2535,36		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C2537,38		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2539,40		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2541-43		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	3	
C2544		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2545		ECEA1EKA470	E.CAPACITOR 25V 47U	1	
C2546		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2547		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C2548		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2549		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2550		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2551,52		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2553,54		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C2555		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2556-58		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	3	
C2559		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C2560-64		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C2565,66		ECEA0JKA101	E.CAPACITOR 6.3V 100U	2	
C2578		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
D2501-04		MA151WK	DIODE	4	<R>
D2506-09		MA151K	DIODE	4	<R>
IC2501		AN3621NK	IC	1	<R>
IC2502		MN15542VMN	IC	1	<R>
IC2503,04		AN3834K	IC	2	<R>
IC2505		MN1280R	IC	1	<R>
IC2506		LM358P	IC	1	<R>
IC2507		LM324N	IC	1	<R>
IC2508		MC14053BCP	IC	1	<R>
IC2509		LM393P	IC	1	<R>
IC2510		MC14053BCP	IC	1	<R>
IC2511,12		MC14069UBCP	IC	2	<R>
IC2513		LM393P	IC	1	<R>
L2501,02		VLQ0460	COIL	2	
P2501		VJP1230R	CONNECTOR(MALE) 3P	1	
P2502		VJP1230T	CONNECTOR(MALE) 3P	1	
P2503		VJP1511T	CONNECTOR(MALE) 11P	1	
P2505,06		VJS1412	CONNECTOR(FEMALE) 15P	2	
P2507		VJP1232T	CONNECTOR(MALE) 5P	1	
Q2501		2SD636	TRANSISTOR	1	<R>
QR2501-04		MRN1404	TRANSISTOR	4	<R>
QR2505,06		MRN2404	TRANSISTOR	2	<R>
QR2507		MRN1404	TRANSISTOR	1	<R>
QR2508		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR2509,10		MRN1404	TRANSISTOR	2	<R>
QR2511		UN2215	TRANSISTOR-RESISTOR	1	<R>
QR2512		MRN1404	TRANSISTOR	1	<R>
QR2513,14		MRN2404	TRANSISTOR	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR2515-18		MRN1404	TRANSISTOR	4	<R>
R2501		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R2502		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R2503		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R2504		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2505,06		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2507		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2508		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2509		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R2510		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R2511		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R2513		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2514,15		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R2516		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2517		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R2518		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2519		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2520		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2521		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R2522		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2523		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2524		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2525		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2526		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2527		ERJ6GEYJ823	M.RESISTOR CH 1/10W 82K	1	
R2528		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2529		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R2530		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2531		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2532		ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R2533		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R2534		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2535		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R2536		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R2537		FRJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R2538		ERJ6GEYG363	M.RESISTOR CH 1/10W 36K	1	
R2539		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R2540		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2541		ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R2542		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R2543		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2544		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2545		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2546		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2547		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2548		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2549-53		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	5	
R2554		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2555		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2556		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R2557		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2558		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2559		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2560-64		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	5	
R2565,66		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2567		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2568		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2569		ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2570,71		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R2572		ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R2573		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2574		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2575,76		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2577		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R2578,79		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R2580		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2581		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2582		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2583		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2584		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R2585		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2586		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2587		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R2588		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2589		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2591,92		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2593		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2594		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R2595		ERX12SJR56	M.RESISTOR 1/2W 0.56	1	
R2596		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R2597		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R2598		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R2599		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2600		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R2602,03		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R2604		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2605		ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R2606		ERJ6GEYG202	M.RESISTOR CH 1/10W 2K	1	
R2607		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R2608		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
RA2501,02		EXBLD4103G	COMBI R-R	2	
X2501		VSX0128	CRYSTAL OSCILLATOR	1	<R>
	■	VEP03877A	P.C.BOARD W/COMPONENT		AG-7350-E/B
			VIDEO (1)		
C3001		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3004		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3008,09		ECEA1CU220	E.CAPACITOR 16V 22U	2	
C3011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3012		ECEA1AN220S	E.CAPACITOR 10V 22U	1	
C3013		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3014,15		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3016		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3017,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3020,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3022		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3023		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3024		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3025		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3026		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3027		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3028		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C3029		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3031		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3032		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C3033		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C3034		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3035		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3036		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3037		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3038		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3039		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3040		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3041		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3042		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3043		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3044		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3045		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3046		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3047		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3048		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3050	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3051,52	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3053	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3054	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3055-57	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3058	ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3059	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3060	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3061,62	ECEA1CN100S	E.CAPACITOR 16V 10U	2	
C3063	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3064	ECEA1CN220S	E.CAPACITOR 16V 22U	1	
C3065	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3066	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3068	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3069	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3070	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3071	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3072	ECEA1CU101	E.CAPACITOR 16V 100U	1	
C3074	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3075	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3076	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3077	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3078	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3082	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3083-86	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3087	ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3088,89	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3090	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3091	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3092	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3093	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3094	ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C3095	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3096	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3097	ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C3098	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3099	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3100	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3102	ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3103	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3104	ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C3105-07	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3108	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3109-12	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3113	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3114,15	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3116	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3117	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3118	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3119,20	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3121	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3122	ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3123	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3124	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3125	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
C3126-29	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3130	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3131	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3132	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3134	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3135	ECQV1H564JZ	P.CAPACITOR 50V 0.56U	1	
C3136	ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C3137	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3138	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3139	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3140	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3141	ECCF1H270JC	C.CAPACITOR 50V 27P	1	
D3002,03	MA151K	DIODE	2	<R>
D3004	MA151WK	DIODE	1	<R>
D3005,06	MA151K	DIODE	2	<R>
D3007	MA151WK	DIODE	1	<R>
D3008	1SS283	DIODE	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL3001	VLF0499	FILTER	1	
FL3002	ELB4L121	FILTER	1	
FL3003	VLF0878	FILTER	1	
FL3004	VLF0639	FILTER	1	
FL3005	ELB4M022	FILTER	1	
FL3006	ELB5A066	FILTER	1	
FL3007	ELB4R031	FILTER	1	
FL3008,09	ELB4K114	FILTER	2	
IC3001	NJM2233BMA	IC	1	<R>
IC3002	MN74HC4053S	IC	1	
IC3003	NJM2233BMA	IC	1	<R>
IC3004	VEFH07C	IC	1	<R>
IC3005	M52065FP	IC	1	<R>
IC3006	VEFH05BT	IC	1	<R>
IC3007	M52054SP	IC	1	<R>
IC3008	AN6308S	IC	1	<R>
JW3001	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L3002	VLQEL05S121J	COIL 120UH	1	
L3003-05	VLQEL05S101J	COIL 100UH	3	
L3006,07	VLP0083	COIL	2	
L3008	VLQEL05S330J	COIL 33UH	1	
L3009	VLQEL05S220J	COIL 22UH	1	
L3010	VLQEL05S820J	COIL 82UH	1	
L3011	VLQEL05S101J	COIL 100UH	1	
L3012,13	VLQEL05S151J	COIL 150UH	2	
L3014	VLQEL05S101J	COIL 100UH	1	
L3015	VLP0083	COIL	1	
L3016	VLQEL05S101J	COIL 100UH	1	
L3020,21	VLQEL05S5R6J	COIL 5.6UH	2	
L3022	VLQEL05S101J	COIL 100UH	1	
L3023	VLQEL05S120J	COIL 12UH	1	
L3024	VLQEL05S270J	COIL 27UH	1	
L3025	VLQEL05S181J	COIL 180UH	1	
L3026	VLQEL05S101J	COIL 100UH	1	
L3027,28	VLQEL05S100J	COIL 10UH	2	
L3029	VLQEL05S220J	COIL 22UH	1	
L3030,31	VLQEL05S101J	COIL 100UH	2	
L3033	VLQEL05S560J	COIL 56UH	1	
L3034	VLQEL05S6R8J	COIL 6.8UH	1	
L3035	VLQEL05S4R7J	COIL 4.7UH	1	
L3036	VLQEL05S151J	COIL 150UH	1	
L3037	VLQEL05S220J	COIL 22UH	1	
L3038	VLQEL05T681J	COIL 680UH	1	
P3001	VJP1238T	CONNECTOR(MALE) 11P	1	
P3002	VJP3176B064	CONNECTOR (MALE)	1	
Q3001,02	MSD601-R	TRANSISTOR	2	
Q3005	MSD601-R	TRANSISTOR	1	
Q3008	MSC2295-B	TRANSISTOR	1	
Q3009	MSB709-R	TRANSISTOR	1	
Q3010	2SA1022	TRANSISTOR	1	(B)<R>
Q3011	MSC2295-B	TRANSISTOR	1	
Q3012	2SD1330	TRANSISTOR	1	<R>
Q3013	MSB709-R	TRANSISTOR	1	
Q3014	MSC2295-B	TRANSISTOR	1	
Q3015-18	MSD601-R	TRANSISTOR	4	
Q3019-21	MSC2295-B	TRANSISTOR	3	
Q3022	MSB709-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3023-25	MSC2295-B	TRANSISTOR	3	
Q3027	MSC2295-B	TRANSISTOR	1	
Q3028,29	MSD601-R	TRANSISTOR	2	
Q3030	MSC2295-B	TRANSISTOR	1	
QR3001-03	MRN1404	TRANSISTOR	3	
QR3004	UN2110	TRANSISTOR-RESISTOR	1	
QR3005	UN1113	TRANSISTOR-RESISTOR	1	
QR3006	MRN1404	TRANSISTOR	1	
QR3008	MRN1403	TRANSISTOR	1	
QR3013	MRN1404	TRANSISTOR	1	
QR3014	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3015-20	MRN1404	TRANSISTOR	6	
QR3021	MRN2404	TRANSISTOR	1	
QR3022	MRN1404	TRANSISTOR	1	
R3001	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3002	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3003	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3005	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3007	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3008	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3009	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3010	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3011	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3012	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3013	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3014	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3015	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3016,17	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3018	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3019	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3020	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3021,22	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3023-25	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R3026	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3027	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3028	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3029	ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3031	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3032	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3033	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3034	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3035	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3036,37	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3038	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3040	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3041	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3042	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3043	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3045	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3046	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3047	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3048	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3049	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3050	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3051	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3052	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3053	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3054	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3055,56	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R3057	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3058	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3060	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3063	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3064	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3065,66	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3067	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3068	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3073	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3074	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3075	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3076	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3077	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3078,79	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3080	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3081	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3082	ERJ6GEYG911	M.RESISTOR CH 1/10W 910	1	
R3085	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3089	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3091	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3092	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3093	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3094-96	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R3097	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3099	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3100	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3101,02	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R3103	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3104	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3106	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3107	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3108	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3109	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3110	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3111	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3112	ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
R3113	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3114	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3115,16	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3119	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3120	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3121	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3122	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3123	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3124	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3125	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3126	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3127	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3128	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3129	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3130	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3131	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3132	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3133	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3134	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3135	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3136	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3137	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3138	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3141	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3142	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3143	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3144	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3145	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3146	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3147	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3148	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3149	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3150	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3151	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3152	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3153	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3154	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3155-58	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	4	
R3161	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3162	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3163	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3164	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3165	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3166	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3167	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3168	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3169,70	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3171		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3172		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3173		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3174		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3175		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3176		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3177		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
VR3001,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR3003-05		EVN32CA00B52	V.RESISTOR 500	3	
VR3006		EVMF6SA00B14	V.RESISTOR 10K	1	
VR3007		EVN32CA00B54	V.RESISTOR 50K	1	
VR3008		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP03877B	P.C.BOARD W/COMPONENT		AG-7150-E/B
			VIDEO (1)		
C3001		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3004		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3008,09		ECEA1CU220	E.CAPACITOR 16V 22U	2	
C3011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3012		ECEA1AN220S	E.CAPACITOR 10V 22U	1	
C3013		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3014,15		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3022		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3023		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3024		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3027		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3028		ECEA1HN2R2S	E.CAPACITOR 50V 2.2U	1	
C3029		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3031		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3032		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C3033		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C3034		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3035		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3036		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3037		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3038		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C3039		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3040		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3041		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C3057		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3058		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3059		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3060		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3061		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C3063		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3064		ECEA1CN220S	E.CAPACITOR 16V 22U	1	
C3065		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3066		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3068		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3069		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3070		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3071		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3072		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C3074		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3075		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3076		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3077		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3078		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3086		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3087		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3088,89		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3090		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3091		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3092		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3093		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3094		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C3095		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3096		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3097		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C3098		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3099		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3100		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3102		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3103		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3104		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C3105-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3108		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3109-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3113		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3114,15		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3116		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3117		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3118		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3119		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3121		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3123		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3124		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
C3126-29		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C3130		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3131		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3132		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3134		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3137		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3138		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3139		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3140		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3141		ECCF1H270JC	C.CAPACITOR 50V 27P	1	
D3002,03		MA151K	DIODE	2	<R>
D3006		MA151K	DIODE	1	<R>
D3007		MA151WK	DIODE	1	<R>
D3008		1SS283	DIODE	1	<R>
FL3001		VLF0499	FILTER	1	
FL3002		ELB4L121	FILTER	1	
FL3003		VLF0878	FILTER	1	
FL3004		VLF0639	FILTER	1	
FL3005		ELB4M022	FILTER	1	
FL3006		ELB5A066	FILTER	1	
FL3007		ELB4R031	FILTER	1	
FL3008,09		ELB4K114	FILTER	2	
IC3001		NJM2233BMA	IC	1	<R>
IC3003		NJM2233BMA	IC	1	<R>
IC3004		VEFH07C	IC	1	<R>
IC3005		M52065FP	IC	1	<R>
IC3006		VEFH05BT	IC	1	<R>
IC3007		M52054SP	IC	1	<R>
IC3008		AN6308S	IC	1	<R>
JW3001		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L3002		VLQEL05S121J	COIL 120UH	1	
L3003,04		VLQEL05S101J	COIL 100UH	2	
L3006		VLP0083	COIL	1	
L3008		VLQEL05S330J	COIL 33UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3009	VLQEL05S220J	COIL 22UH	1	
L3011	VLQEL05S101J	COIL 100UH	1	
L3014	VLQEL05S101J	COIL 100UH	1	
L3015	VLP0083	COIL	1	
L3020,21	VLQEL05S5R6J	COIL 5.6UH	2	
L3022	VLQEL05S101J	COIL 100UH	1	
L3023	VLQEL05S120J	COIL 12UH	1	
L3024	VLQEL05S270J	COIL 27UH	1	
L3025	VLQEL05S181J	COIL 180UH	1	
L3026	VLQEL05S101J	COIL 100UH	1	
L3027,28	VLQEL05S100J	COIL 10UH	2	
L3029	VLQEL05S220J	COIL 22UH	1	
L3030,31	VLQEL05S101J	COIL 100UH	2	
L3033	VLQEL05S560J	COIL 56UH	1	
L3037	VLQEL05S220J	COIL 22UH	1	
L3038	VLQEL05T681J	COIL 680UH	1	
P3001	VJP1238T	CONNECTOR(MALE) 11P	1	
P3002	VJP3176B064	CONNECTOR(MALE)	1	
Q3001	MSD601-R	TRANSISTOR	1	<R>
Q3008	MSC2295-B	TRANSISTOR	1	<R>
Q3011	MSC2295-B	TRANSISTOR	1	<R>
Q3012	2SD1330	TRANSISTOR	1	<R>
Q3013	MSB709-R	TRANSISTOR	1	<R>
Q3014	MSC2295-B	TRANSISTOR	1	<R>
Q3015,16	MSD601-R	TRANSISTOR	2	<R>
Q3018	MSD601-R	TRANSISTOR	1	<R>
Q3019-21	MSC2295-B	TRANSISTOR	3	<R>
Q3022	MSB709-R	TRANSISTOR	1	<R>
Q3023-25	MSC2295-B	TRANSISTOR	3	<R>
Q3027	MSC2295-B	TRANSISTOR	1	<R>
QR3001-03	MRN1404	TRANSISTOR	3	<R>
QR3004	UN2110	TRANSISTOR-RESISTOR	1	<R>
QR3005	UN1113	TRANSISTOR-RESISTOR	1	<R>
QR3006	MRN1404	TRANSISTOR	1	<R>
QR3008	MRN1403	TRANSISTOR	1	<R>
QR3013	MRN1404	TRANSISTOR	1	<R>
QR3014	DTC363EK	TRANSISTOR-RESISTOR	1	<R>
QR3018-20	MRN1404	TRANSISTOR	3	<R>
R3001	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3002	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3003	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3005	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3007	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3008	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3009	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3010	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3011	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3012	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3013	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3014	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3015	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3016,17	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R3018	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3019	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3026	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3027	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3028	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3029	ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3031	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3034	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3035	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3036,37	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3038	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3040	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3041	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3042	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3043	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3044	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3045	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3046	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3047	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3066	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3067	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3068	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3073	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3074	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3075	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3076	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3080	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3081	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3082	ERJ6GEYG911	M.RESISTOR CH 1/10W 910	1	
R3085	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3089	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3099	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3100	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3101,02	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R3103	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3104	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3105	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3106	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3107	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3108	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3109	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3113	ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3114	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3115,16	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3119	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3120	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3121	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3122	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3123	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3124	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3125	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3127	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3128	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3131	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3132	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3133	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3134	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3135	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3136	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3137	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3138	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3141	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3142	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3143	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3144	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3145	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3146	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3147	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3148	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3149	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3150	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3151	ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3152	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3153	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3154	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3155-58	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	4	
R3161	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3162	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3163	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3166	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3169,70	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3171	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3172	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3173	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3174	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3175	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3176		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3177		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
VR3001		EVN32CA00B13	V.RESISTOR 1K	1	
VR3004,05		EVN32CA00B52	V.RESISTOR 500	2	
VR3006		EVMF6SA00B14	V.RESISTOR 10K	1	
VR3007		EVN32CA00B54	V.RESISTOR 50K	1	
	■	VEP03878A	P.C.BOARD W/COMPONENT		AG-7350-E/B
			VIDEO (2)		INCLUDING THE
					CCD UNIT (VEP03880A)
C8001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8002		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8003		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8004		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8005		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8006		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8007		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8008		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8009		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C8010		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8012,13		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	2	
C8014		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8015		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8016		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8017		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8018-22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C8023		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C8024		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C8025		ECV1ZW20X53T	V.CAPACITOR 20P	1	
C8026		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C8027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8029		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C8030		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C8031		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C8032		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C8033		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C8034		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C8035		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8037		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8038,39		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8040,41		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C8042,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8044		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C8045		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C8046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8047		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C8048		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8049		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8050		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8051		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8052		ECEA0JN470S	E.CAPACITOR 6.3V 47U	1	
C8053		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8054		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8055		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8056		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8057		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C8058		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8059		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8060		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C8061		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8062,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8064		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8065		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8066		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8067		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8068		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8069,70		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8071		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8072		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8073		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8074		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8075,76		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8077		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8078		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8079		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8080		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C8081		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C8082		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8083		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8084,85		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8089,90		ECUM1H333ZFN	C.CAPACITOR CH 50V 0.033U	2	
C8092		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8095		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8097		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8098		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8099,00		ECEA0JN470S	E.CAPACITOR 6.3V 47U	2	
C8101		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8102		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8103		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8104		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8105		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8106		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C8107,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8109		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8110		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8112-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C8115		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8116		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C8117		ECCF1H560JC	C.CAPACITOR 50V 56P	1	
C8501		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C8502		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C8503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8504		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8506		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8508		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C8509,10		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	2	
C8511		ECEA0JKN470	E.CAPACITOR 6.3V 47U	1	
C8512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8515		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8516		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C8517,18		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C8519		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D8001		MA151K	DIODE	1	<R>
D8002		MA153	DIODE	1	<R>
D8003		MA151K	DIODE	1	<R>
D8004		MA3091-M	DIODE	1	<R>
D8005,06		MA151K	DIODE	2	<R>
D8007		MA151WK	DIODE	1	<R>
D8008,09		MA151K	DIODE	2	<R>
D8010,11		MA151WK	DIODE	2	<R>
D8012		MA151K	DIODE	1	<R>
D8014		MA151K	DIODE	1	<R>
D8015		MA165TA5VT	DIODE	1	<R>
DL8001		EFDVR645A45A	DELAY LINE	1	
DL8002		VLD0147	DELAY LINE	1	
DL8003		VLD0089	DELAY LINE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL8001	VLF0299	FILTER	1	
FL8002	ELB4R049	FILTER	1	
FL8003	VLD0125	DELAY LINE	1	
FL8004	VLD0153	FILTER	1	
FL8501,02	VLF0523	FILTER	2	
FL8503,04	VLF0526	FILTER	2	
FL8505	ELB4H054	FILTER	1	
IC8001	VCR0284	IC	1	<R>
IC8002	NJM2233BMA	IC	1	<R>
IC8003	AN3495K	IC	1	<R>
IC8004	MSM6871RS	IC	1	<R>
IC8005	M52079SP	IC	1	<R>
IC8006,07	NJM2233BMA	IC	2	<R>
IC8504	CXL1009P	IC	1	<R>
IC8505	AN78L09	IC	1	<R>
JW8001,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L8001-03	VLQEL05S101J	COIL 100UH	3	
L8004,05	VLQEL05S150J	COIL 15UH	2	
L8006	VLQEL05S330J	COIL 33UH	1	
L8007,08	VLQEL05S101J	COIL 100UH	2	
L8009,10	VLQEL05T681J	COIL 680UH	2	
L8011	VLQEL05S331J	COIL 330UH	1	
L8013	VLQEL05S470J	COIL 47UH	1	
L8014	VLQEL05S150J	COIL 15UH	1	
L8015	VLQEL05S101J	COIL 100UH	1	
L8016	VLP0083	COIL	1	
L8017	VLQEL05S101J	COIL 100UH	1	
L8018	VLQEL05S270J	COIL 27UH	1	
L8019,20	VLQEL05S101J	COIL 100UH	2	
L8021,22	VLQEL05S150J	COIL 15UH	2	
L8023	VLQEL05S151J	COIL 150UH	1	
L8024-28	VLQEL05S101J	COIL 100UH	5	
L8029	VLQEL05S151J	COIL 150UH	1	
L8031	VLQEL05S221J	COIL 220UH	1	
L8501-03	VLQEL05K101J	COIL 100UH	3	
L8510	VLP0053	COIL	1	
P8001	VJP2776	CONNECTOR(MALE) 3P	1	
P8002	VJP2775	CONNECTOR(MALE) 2P	1	
P8003	VJP3176B064	CONNECTOR(MALE)	1	
P8506	VJS2776	CONNECTOR(FEMALE) 3P	1	
P8507	VJS2775	CONNECTOR(FEMALE) 2P	1	
Q8001	MSB709-R	TRANSISTOR	1	<R>
Q8002-04	MSD601-R	TRANSISTOR	3	<R>
Q8005-08	MSC2295-B	TRANSISTOR	4	<R>
Q8009	MSD601-R	TRANSISTOR	1	<R>
Q8010	MSC2295-B	TRANSISTOR	1	<R>
Q8011,12	MSB709-R	TRANSISTOR	2	<R>
Q8013	MSD601-R	TRANSISTOR	1	<R>
Q8017	MSC2295-B	TRANSISTOR	1	<R>
Q8018	2SA1022	TRANSISTOR	1	(B)<R>
Q8019	MSD601-R	TRANSISTOR	1	<R>
Q8020	MSC2295-B	TRANSISTOR	1	<R>
Q8021,22	MSD601-R	TRANSISTOR	2	<R>
Q8506	MSC2295-B	TRANSISTOR	1	<R>
Q8507	MSB709-R	TRANSISTOR	1	<R>
Q8508	MSC2295-B	TRANSISTOR	1	<R>
QR8001	MRN1404	TRANSISTOR	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR8002	XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8003-07	MRN1404	TRANSISTOR	5	<R>
QR8009	MRN1404	TRANSISTOR	1	<R>
QR8010	MRN1402	TRANSISTOR	1	<R>
QR8011	XN1113	TRANSISTOR-RESISTOR	1	<R>
QR8012	XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8013	MRN1404	TRANSISTOR	1	<R>
QR8014	MRN1403	TRANSISTOR	1	<R>
QR8015	MRN2403	TRANSISTOR-RESISTOR	1	<R>
QR8016	MRN1404	TRANSISTOR	1	<R>
QR8017	XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8018	MRN1404	TRANSISTOR	1	<R>
QR8019	MRN1402	TRANSISTOR	1	<R>
R8001	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8003	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8004	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8005	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8006	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8007,08	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R8009	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8010	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8011	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R8012	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8013,14	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8015	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8016	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8017	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8018	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R8019	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8020,21	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R8022	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8023	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8024	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8025,26	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	2	
R8027	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8028	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8029	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8030	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8031	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8032	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8033	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8034	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8035	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8036	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8037	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8038	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8039	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8040	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8041	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8042	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8043	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8044	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8045	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8046	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8047	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8048	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8049	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8050	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8051	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8052	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8053	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8054	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8055	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8056	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8057,58	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8059	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8060	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8061	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8062	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8063	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8064	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R8065		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8066		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8067		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8068		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8069		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8070		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8071		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8072		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8073		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8074		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8075		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R8076		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8077		ERJ6GEYG913	M.RESISTOR CH 1/10W 91K	1	
R8078		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8088		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8089		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8090		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8091,92		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8093		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8100		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8101,02		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8103		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8104		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8105		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8106		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R8107		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8109		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8110		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8112		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8115		~~ERJ6GEYJ473~~	M.RESISTOR CH 1/10W 47K	1	
R8116		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8117		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8118		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8119,20		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8121,22		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8123		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8124		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8125		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8126		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8127		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8128		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8129,30		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	2	
R8131		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8132		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8133		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8137,38		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8501		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R8502		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R8503		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8504		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8505		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8506		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8507		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8508,09		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8510		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8517		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8535		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
VR8001		EVN32CA00B14	V.RESISTOR 10K	1	
VR8003		EVMF6SA00B13	V.RESISTOR 1K	1	
VR8004		EVN32CA00B24	VARIABLE 20K	1	
VR8005		EVN32CA00B52	V.RESISTOR 500	1	
VR8006		EVN32CA00B13	V.RESISTOR 1K	1	
VR8007		EVN32CA00B24	VARIABLE 20K	1	
VR8009,10		EVN32CA00B13	V.RESISTOR 1K	2	
X8001		VSX0162	CRYSTAL OSCILLATOR	1	<R>
X8002		VSX0316	CRYSTAL OSCILLATOR	1	<R>
X8502		VSX0323	CRYSTAL OSCILLATOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
E36		VSC2911	SHIELD CASE (TOP BOTTOM)	2	
E37		VSC2912	SHIELD CASE (MAIN)	1	
	■	VEP03878B	P.C.BOARD W/COMPONENT		AG-7150-E/B
			VIDEO (2)		INCLUDING THE
					CCD UNIT (VEP03880A)
C8001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8002		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8003		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8004		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8005		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8006		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8007		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8008		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8009		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C8010		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8012,13		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	2	
C8014		ECEA1HU2R2	E.CAPACITOR 50V 2.2U	1	
C8015		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8016		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8017		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8018-22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C8023		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C8024		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C8026		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C8027,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8029		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C8030		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C8031		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C8032		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C8033		ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C8034		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C8035		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8037		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8038,39		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8040,41		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C8042,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8044		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C8045		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C8046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8047		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C8048		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8049		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8050		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8051		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8052		ECEA0JN470S	E.CAPACITOR 6.3V 47U	1	
C8053		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C8054		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8055		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8056		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C8057		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C8058		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8059		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8060		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C8061		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C8062,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8064		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8065		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8066		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8067		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8068		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8069,70		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8071		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8072		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C8073		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C8074		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C8075,76		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8077		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C8078		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8079		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8080		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C8081		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C8082		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8083		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8084,85		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8089,90		ECUM1H333ZFN	C.CAPACITOR CH 50V 0.033U	2	
C8092		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8095		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C8097		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8098		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8099,00		ECEA0JN470S	E.CAPACITOR 6.3V 47U	2	
C8101		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8102		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8103		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C8104		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C8105		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8106		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C8107,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C8109		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C8110		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8112-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C8115		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C8116		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C8117		ECCF1H560JC	C.CAPACITOR 50V 56P	1	
C8501		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C8502		ECEA1CKS470	E.CAPACITOR 16V 47U	1	
C8503		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8504		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8506		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8507		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8508		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C8509,10		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	2	
C8511		ECEA0JKN470	E.CAPACITOR 6.3V 47U	1	
C8512		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C8514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C8515		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C8516		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C8517,18		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C8519		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C8520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D8001		MA151K	DIODE	1	<R>
D8002		MA153	DIODE	1	<R>
D8003		MA151K	DIODE	1	<R>
D8004		MA3091-M	DIODE	1	<R>
D8005,06		MA151K	DIODE	2	<R>
D8007		MA151WK	DIODE	1	<R>
D8008,09		MA151K	DIODE	2	<R>
D8010,11		MA151WK	DIODE	2	<R>
D8012		MA151K	DIODE	1	<R>
D8014		~~MA151K~~	DIODE	1	<R>
D8015		MA165TA5VT	DIODE	1	<R>
DL8001		EFDVR645A45A	DELAY LINE	1	
DL8002		VLD0147	DELAY LINE	1	
DL8003		VLD0089	DELAY LINE	1	
FL8001		VLF0299	FILTER	1	
FL8002		ELB4R049	FILTER	1	
FL8003		VLD0125	DELAY LINE	1	
FL8501,02		VLF0523	FILTER	2	
FL8503,04		VLF0526	FILTER	2	
FL8505		ELB4H054	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC8001		VCR0284	IC	1	<R>
IC8002		NJM2233BMA	IC	1	<R>
IC8003		AN3495K	IC	1	<R>
IC8004		MSM6871RS	IC	1	<R>
IC8005		M52079SP	IC	1	<R>
IC8006,07		NJM2233BMA	IC	2	<R>
IC8504		CXL1009P	IC	1	<R>
IC8505		AN78L09	IC	1	<R>
JW8001,02		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L8001-03		VLQEL05S101J	COIL 100UH	3	
L8004,05		VLQEL05S150J	COIL 15UH	2	
L8006		VLQEL05S330J	COIL 33UH	1	
L8007,08		VLQEL05S101J	COIL 100UH	2	
L8009,10		VLQEL05T681J	COIL 680UH	2	
L8011		VLQEL05S331J	COIL 330UH	1	
L8013		VLQEL05S470J	COIL 47UH	1	
L8014		VLQEL05S150J	COIL 15UH	1	
L8015		VLQEL05S101J	COIL 100UH	1	
L8016		VLP0083	COIL	1	
L8017		VLQEL05S101J	COIL 100UH	1	
L8018		VLQEL05S270J	COIL 27UH	1	
L8019,20		VLQEL05S101J	COIL 100UH	2	
L8021,22		VLQEL05S150J	COIL 15UH	2	
L8023		VLQEL05S151J	COIL 150UH	1	
L8024-28		VLQEL05S101J	COIL 100UH	5	
L8029		VLQEL05S151J	COIL 150UH	1	
L8031		VLQEL05S221J	COIL 220UH	1	
L8501-03		VLQEL05K101J	COIL 100UH	3	
L8510		VLP0053	COIL	1	
P8001		VJP2776	CONNECTOR(MALE) 3P	1	
P8002		VJP2775	CONNECTOR(MALE) 2P	1	
P8003		VJP3176B064	CONNECTOR(MALE)	1	
P8506		VJS2776	CONNECTOR(FEMALE) 3P	1	
P8507		VJS2775	CONNECTOR(FEMALE) 2P	1	
Q8001		MSB709-R	TRANSISTOR	1	<R>
Q8002-04		MSD601-R	TRANSISTOR	3	<R>
Q8005-08		MSC2295-B	TRANSISTOR	4	<R>
Q8009		MSD601-R	TRANSISTOR	1	<R>
Q8010		MSC2295-B	TRANSISTOR	1	<R>
Q8011,12		MSB709-R	TRANSISTOR	2	<R>
Q8013		MSD601-R	TRANSISTOR	1	<R>
Q8017		MSC2295-B	TRANSISTOR	1	<R>
Q8018		2SA1022	TRANSISTOR	1	(B)<R>
Q8019		MSD601-R	TRANSISTOR	1	<R>
Q8020		MSC2295-B	TRANSISTOR	1	<R>
Q8021,22		MSD601-R	TRANSISTOR	2	<R>
Q8506		MSC2295-B	TRANSISTOR	1	<R>
Q8507		MSB709-R	TRANSISTOR	1	<R>
Q8508		MSC2295-B	TRANSISTOR	1	<R>
QR8001		MRN1404	TRANSISTOR	1	<R>
QR8002		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8003-07		MRN1404	TRANSISTOR	5	<R>
QR8009		MRN1404	TRANSISTOR	1	<R>
QR8010		MRN1402	TRANSISTOR	1	<R>
QR8011		XN1113	TRANSISTOR-RESISTOR	1	<R>
QR8012		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR8013		MRN1404	TRANSISTOR	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR8014	MRN1403	TRANSISTOR	1	<R>
QR8015	MRN2403	TRANSISTOR-RESISTOR	1	<R>
QR8016	MRN1404	TRANSISTOR	1	<R>
QR8017	XN1213	TRANSISTOR-TRANSISTOR	1	
QR8018	MRN1404	TRANSISTOR	1	
QR8019	MRN1402	TRANSISTOR	1	
R8001	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8003	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8004	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8005	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3006	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8007,08	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	2	
R8009	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8010	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8011	ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R8012	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8013,14	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8015	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R8016	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8017	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8018	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R8019	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8020,21	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R8022	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8023	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8024	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8025,26	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	2	
R8027	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8028	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8029	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8030	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8031	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8032	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8033	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8034	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8035	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8036	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8037	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8038	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8039	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8040	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8041	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8042	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8043	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8044	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R8045	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8046	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8047	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R8048	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8049	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8050	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8051	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8052	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8053	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8054	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8055	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8056	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R8057,58	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8059	ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R8060	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8061	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R8062	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8063	ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	
R8064	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8065	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8066	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8067	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R8068	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8069	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8070	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8071	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R8072	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8073	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8074	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R8075	ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R8076	ERJ6GEYJ221	M.RESISTOR CH 1/10W 2.2K	1	
R8077	ERJ6GEYG913	M.RESISTOR CH 1/10W 91K	1	
R8078	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R8088	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8089	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8090	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8091,92	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8093	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8100	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R8101,02	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8103	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8104	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8105	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8106	ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R8107	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8109	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R8110	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R8112	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R8115	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R8116	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8117	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8118	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8119,20	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R8121,22	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8123	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R8124	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8125	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R8126	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R8127	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8128	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R8129,30	ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	2	
R8131	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8132	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R8133	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R8135	ERDS2TJ123	C.RESISTOR 1/4W 12K	1	
R8136	ERDS2TJ822	C.RESISTOR 1/4W 8.2K	1	
R8137,38	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R8501	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R8502	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R8503	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8504	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8505	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8506	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R8507	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R8508,09	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R8510	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R8517	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R8535	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
VR8001	EVN32CA00B14	V.RESISTOR 10K	1	
VR8003	EVMF6SA00B13	V.RESISTOR 1K	1	
VR8005	EVN32CA00B52	V.RESISTOR 500	1	
VR8006	EVN32CA00B13	V.RESISTOR 1K	1	
VR8007	EVN32CA00B24	VARIABLE 20K	1	
VR8009,10	EVN32CA00B13	V.RESISTOR 1K	2	
X8001	VSX0162	CRYSTAL OSCILLATOR	1	<R>
X8002	VSX0316	CRYSTAL OSCILLATOR	1	<R>
X8502	VSX0323	CRYSTAL OSCILLATOR	1	<R>
		MISCELLANEOUS		
E36	VSC2911	SHIELD CASE (TOP, BOTTOM)	2	
E37	VSC2912	SHIELD CASE (MAIN)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03879A	P.C.BOARD W/COMPONENT		AG-7350-E/B
			VIDEO (3)		INCLUDING THE
					CCD PACK (1)
					(VEPOOR78A)
					CCD PACK (2)
					(VEPOOR78B)
C1		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C2		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C4,C5		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7		ECEA1HKS4R7	E.CAPACITOR 50V 4.7U	1	
C8		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C9		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C11		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C12		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3501-03		ECEA1CU470	E.CAPACITOR 16V 47U	3	
C3505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3506		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3507,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3510		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3512		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3513		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3514,15		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3516		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3517		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3518		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3519,20		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	2	
C3521		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3522		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3523		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3524		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3526		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3528		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3531		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3533		ECUM1H030DCN	C.CAPACITOR CH 50V 3P	1	
C3534		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3535		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3536		ECEA1VU220	E.CAPACITOR 35V 22U	1	
C3537		ECEA1HU100	E.CAPACITOR 50V 10U	1	
C3538		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3539		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3540,41		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3542		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3543		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3545		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3546		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3547,48		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3549		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3550		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3552		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3553		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3554		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3559		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3560		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C3561		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3562		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3563,64		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3565		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3566,67		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3568		ECQP1H392JZ	P.CAPACITOR 50V 3900P	1	
C3569		ECEA1HKGR68	E.CAPACITOR 50V 0.68U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3570		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C3571		ECQB1H152JF	P.CAPACITOR 50V 1500P	1	
C3572		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C3573		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3574		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3575		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3576		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3577		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3578		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3579		ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C3580		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3581		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3582		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3583		ECEA1HUR22	E.CAPACITOR 50V	1	
C3584,85		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3586		ECV1ZW20X53T	V.CAPACITOR 20P	1	
C3587		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3588		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3590		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3591		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3592		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3593		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3594		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3595		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3596		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3597		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3598		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3599,00		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C3601,02		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3603		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3604		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606,07		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3608,09		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3610		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3611		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3612		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3613		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3614		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3615		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3616		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3617		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3618		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3619		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3620		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3621,22		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3623		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3624,25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3626		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3627		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3628		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3629		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C3630-32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3633		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C3634		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3637		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3639		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3640		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3641		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C3642		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3643		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3644		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3645		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C3646		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3647		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3648,49		ECCF1H120JC	C.CAPACITOR 50V 12P	2	
D1		MA3091M	DIODE	1	<R>
D1		MA3091M	DIODE	1	<R>
D3501		MA3200M	DIODE	1	<R>
D3502-04		MA151K	DIODE	3	<R>
D3505		MA28W-AB	DIODE	1	<R>
D3506-09		MA151K	DIODE	4	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
DL3501		VLD0127	DELAY LINE	1	
FL3501		VLF0766	FILTER	1	
FL3502		ELXTS470GA	FILTER	1	
FL3503,04		VLF0811	FILTER	2	
FL3506		VLF0765	FILTER	1	
FL3507		ELXTS470GA	FILTER	1	
IC1		MSM6871RS	IC	1	<R>
IC3501		M52065FP	IC	1	<R>
IC3502		AN3916	IC	1	<R>
IC3503		UPC78L05J	IC	1	<R>
IC3504		BA7021	IC	1	<R>
IC3505		MN4030BS	IC	1	<R>
IC3507		UPC78L05J	IC	1	<R>
IC3508		NJM2233BMA	IC	1	<R>
IC3509		AN3296S	IC	1	<R>
IC3510		MN1280P	IC	1	<R>
IC3511		M50455-001SP	IC	1	<R>
IC3512		UPC78L05J	IC	1	<R>
IC3513		UPD4066BG	IC	1	<R>
IC3514		BA7607F	IC	1	<R>
IC3515		AN3581S	IC	1	<R>
IC3516		TC7S04F		1	<R>
J3501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
J3503		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L1		VLQ0460	COIL 100UH	1	
L3501,02		VLQEL05S101J	COIL 100UH	2	
L3503,04		VLP0083	COIL	2	
L3505-11		VLQEL05S101J	COIL 100UH	7	
L3512		VLQEL05S15QJ	COIL 15UH	1	
L3514-17		VLQEL05S101J	COIL 100UH	4	
L3518		VLP0083	COIL	1	
L3519,20		VLQEL05S101J	COIL 100UH	2	
L3521,22		VLQEL05S18QJ	COIL 18UH	2	
L3523		VLQEL05S101J	COIL 100UH	1	
L3524,25		VLQEL05S56QJ	COIL 56UH	2	
P1		VJR0231	PACK PIN 6P	1	
P3501		VJP3176B064	CONNECTOR(MALE)	1	
Q1-Q3		MSC2295-B	TRANSISTOR	3	<R>
Q3501		MSD601-R	TRANSISTOR	1	<R>
Q3502		MSC2295-B	TRANSISTOR	1	<R>
Q3503		2SA1022	TRANSISTOR	1	(B)<R>
Q3504		MSD601-R	TRANSISTOR	1	<R>
Q3506		MSC2295-B	TRANSISTOR	1	<R>
Q3507		2SA1022	TRANSISTOR	1	<R>
Q3508-10		MSD601-R	TRANSISTOR	3	<R>
Q3511		MSB709-R	TRANSISTOR	1	<R>
Q3512		MSD601-R	TRANSISTOR	1	<R>
Q3513		MSB709-R	TRANSISTOR	1	<R>
Q3514		2SB641	TRANSISTOR	1	<R>
Q3515		MSC2295-B	TRANSISTOR	1	<R>
Q3516		2SA1022	TRANSISTOR	1	(B)<R>
Q3517		MSB709-R	TRANSISTOR	1	<R>
Q3519		MSD601-R	TRANSISTOR	1	<R>
Q3520		MSB709-R	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3521-24		MSD601-R	TRANSISTOR	4	<R>
Q3525		MSB709-R	TRANSISTOR	1	<R>
Q3526-30		MSD601-R	TRANSISTOR	5	<R>
Q3531		MSC2295-B	TRANSISTOR	1	<R>
Q3532		2SA1022	TRANSISTOR	1	(B)<R>
Q3533		MSB709-R	TRANSISTOR	1	<R>
Q3534,35		MSD601-R	TRANSISTOR	2	<R>
QR3501		XN1501	TRANSISTOR-TRANSISTOR	1	<R>
QR3502-06		MRN1404	TRANSISTOR	5	<R>
QR3507		MRN1402	TRANSISTOR	1	<R>
QR3508-12		MRN1404	TRANSISTOR	5	<R>
QR3513		XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR3514-17		MRN1404	TRANSISTOR	4	<R>
QR3520,21		MRN1404	TRANSISTOR	2	<R>
R1		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R2		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4,R5		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R6		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R8		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3501,02		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R3503-05		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3506		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3507		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3508		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3509		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3510		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3511		ERJ6GEYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3513,14		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3515		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3516		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3517		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3518		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3519		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3520-25		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	6	
R3526		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3527		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R3528		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3529		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3530		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3531		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R3532		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R3534		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3536		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3537		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3538		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3539		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3540-42		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3544		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R3545-47		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3548		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3549,50		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3551		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3552		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3553		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3555		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3556		ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R3557		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3558		ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R3559		ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	
R3560		ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R3561		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3562		ERJ6GEYG561	M.RESISTOR CH 1/10W 560	1	
R3563		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3564		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3565		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3566		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3567		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3573,74		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3575		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3576,77		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3578		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3579		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3580		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3581		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3582		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3583		ERJ6GEYG473	M.RESISTOR CH 1/10W 47K	1	
R3584		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3585		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3586		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R3587		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3588		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3589		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R3590,91		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3592		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R3593		ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R3594		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3595		ERJ6GEYJ335	M.RESISTOR CH 1/10W 33K	1	
R3596		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3597		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3598		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3599,00		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R3601		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3602		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3603		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3604		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3605		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3606		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3607		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3608		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3609,10		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3611		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3612		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3613		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3614		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3615		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3616		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3617,18		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3620		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3621		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R3622		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3623		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3624		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3625		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3626		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3627,28		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3629		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3630		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3631		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3632		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3633-35		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3636		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3637		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3638-40		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3641-43		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3644		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3645		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3646		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3647		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3648,49		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3650		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3651-54		ERJ6GEYG750	M.RESISTOR CH 1/10W 75	4	
R3655		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R3657		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3658		ERJ6GEYG112	M.RESISTOR CH 1/10W 1.1K	1	
R3659		ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R3660		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3661		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R3663		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3664		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3667		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3668		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3669		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3670		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3671-73		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3675		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3676		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R3678		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3679		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3680		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3681		EPJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3682		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
TH3501		ERTD2FHL102S	THERMISTOR 1K	1	
VR3501		EVN32CA00B24	VARIABLE 20K	1	
VR3502,03		EVN32CA00B13	V.RESISTOR 1K	2	
X1		VSX0316	CRYSTAL OSCILLATOR	1	<R>
X3501		VSX0114	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E41		VMX0469	TERMISTOR SPACER	1	
	■	VEP03879B	P.C.BOARD W/COMPONENT		AG-7150-E/B
			VIDEO (3)		
C3515		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3521		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3522		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3523		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3524		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3536		ECEA1VU220	E.CAPACITOR 35V 22U	1	
C3537		ECEA1HU100	E.CAPACITOR 50V 10U	1	
C3538		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3539		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3540		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3543		ECEA1HN4R7S	E.CAPACITOR 50V 4.7U	1	
C3544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3545		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3546		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3547,48		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3549		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3550		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3552		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C3558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3559		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3561		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3562		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3563,64		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3565		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3566		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3568		ECQP1H392JZ	P.CAPACITOR 50V 3900P	1	
C3569		ECEA1HKGR68	E.CAPACITOR 50V	1	
C3570		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C3571		ECQB1H152JF	P.CAPACITOR 50V 1500P	1	
C3572		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C3573		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C3574		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3575		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3576		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C3577		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3578	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3579	ECQB1H683JF	P.CAPACITOR 50V 0.068U	1	
C3580	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3581	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3582	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3583	ECEA1HUR22	E.CAPACITOR 50V 0.22U	1	
C3584,85	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3586	ECV1ZW20X53T	V.CAPACITOR 20P	1	
C3587	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3588	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3590	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3591	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3592	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3593	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3594	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3595	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3596	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3597	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3598	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C3599,00	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	2	
C3601,02	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3603	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3604	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3605	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606,07	ECEA1CU470	E.CAPACITOR 16V 47U	2	
C3608,09	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3610	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3611	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3612	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3613	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3614	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3615	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C3616	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3617	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3618	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3619	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3620	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C3621,22	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3623	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	1	
C3624,25	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3626	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3627	ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3628	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3629	ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C3630-32	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3633	ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C3634	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C3637	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3639	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3640	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C3642	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3644	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3645	ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C3647	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
D3501	MA3200M	DIODE	1	<R>
D3504	MA151K	DIODE	1	<R>
D3505	MA28W-AB	DIODE	1	<R>
D3506-08	MA151K	DIODE	3	<R>
DL3501	VLD0127	DELAY LINE	1	
IC3501	M52065FP	IC	1	<R>
IC3502	AN3916	IC	1	<R>
IC3503	UPC78L05J	IC	1	<R>
IC3504	BA7021	IC	1	<R>
IC3507	UPC78L05J	IC	1	<R>
IC3508	NJM2233BMA	IC	1	<R>
IC3509	AN3296S	IC	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3510	MN1280P	IC	1	<R>
IC3511	M50455-001SP	IC	1	<R>
IC3512	UPC78L05J	IC	1	<R>
IC3513	UPD4066BG	IC	1	<R>
IC3514	BA7607F	IC	1	<R>
IC3515	AN3581S	IC	1	<R>
L3506,07	VLQEL05S101J	COIL 100UH	2	
L3509-11	VLQEL05S101J	COIL 100UH	3	
L3512	VLQEL05S150J	COIL 15UH	1	
L3514-17	VLQEL05S101J	COIL 100UH	4	
L3519,20	VLQEL05S101J	COIL 100UH	2	
L3521,22	VLQEL05S180J	COIL 18UH	2	
L3523	VLQEL05S101J	COIL 100UH	1	
L3525	VLQEL05S560J	COIL 56UH	1	
P3501	VJP3176B064	CONNECTOR(MALE)	1	
Q3514	2SB641	TRANSISTOR	1	<R>
Q3515	MSC2295-B	TRANSISTOR	1	<R>
Q3516	2SA1022	TRANSISTOR	1	(B)<R>
Q3517	MSB709-R	TRANSISTOR	1	<R>
Q3519	MSD601-R	TRANSISTOR	1	<R>
Q3520	MSB709-R	TRANSISTOR	1	<R>
Q3521-24	MSD601-R	TRANSISTOR	4	<R>
Q3525	MSB709-R	TRANSISTOR	1	<R>
Q3526-30	MSD601-R	TRANSISTOR	5	<R>
Q3531	MSC2295-B	TRANSISTOR	1	<R>
Q3532	2SA1022	TRANSISTOR	1	(B)<R>
Q3533	MSB709-R	TRANSISTOR	1	<R>
Q3534,35	MSD601-R	TRANSISTOR	2	<R>
QR3504-06	MRN1404	TRANSISTOR	3	<R>
QR3507	MRN1402	TRANSISTOR	1	<R>
QR3508-12	MRN1404	TRANSISTOR	5	<R>
QR3513	XN1213	TRANSISTOR-TRANSISTOR	1	<R>
QR3514-17	MRN1404	TRANSISTOR	4	<R>
QR3521	MRN1404	TRANSISTOR	1	<R>
R3524,25	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3526	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R3529	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3548	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3553	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3554	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3555	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3556	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R3557	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R3558	ERJ6GEYG333	M.RESISTOR CH 1/10W 33K	1	
R3559	ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	
R3560	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R3561	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3562	ERJ6GEYG561	M.RESISTOR CH 1/10W 560	1	
R3563	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R3564	ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3565	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R3566	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3567	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3573	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3575	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3576,77	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3582	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3583	ERJ6GEYG473	M.RESISTOR CH 1/10W 47K	1	
R3584	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3585	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3586		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R3587		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R3588		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3589		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R3590,91		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3592		ERJ6GEYJ564	M.RESISTOR CH 1/10W 560K	1	
R3593		ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R3594		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3595		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R3596		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3597		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3598		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3599,00		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R3601		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3602		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3603		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3604		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3605		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3606		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3607		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3608		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3609,10		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R3611		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3612		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3613		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R3614		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3615		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3616		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3617,18		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3620		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3621		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R3622		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3623		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3624		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3625		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3626		ERJ6GEYJ151	M.RESISTOR CH 1/10W 150	1	
R3627,28		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R3629		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3630		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3631		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3632		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3633-35		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3636		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3637		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3638-40		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3641-43		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R3644		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3645		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3646		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3647		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3648,49		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R3650		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3651-54		ERJ6GEYG750	M.RESISTOR CH 1/10W 75	4	
R3655		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R3657		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3658		ERJ6GEYG112	M.RESISTOR CH 1/10W 1.1K	1	
R3659		ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R3660		ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3661		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R3663		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3664		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3667		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R3668		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3669		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R3670		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3671-73		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R3678		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3679		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R3680		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R3681		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
VR3503		EVN32CA00B13	V.RESISTOR 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X3501		VSX0114	CRYSTAL OSCILLATOR	1	<R>
	■	VEP04326C	P.C.BOARD W/COMPONENT		AG-7350-E/B
			AUDIO (1)		
C4001		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4002		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4003		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4004		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4005,06		ECEA1HU010	E.CAPACITOR 50V 1U	2	
C4007		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4008		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4009		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4011		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4012,13		ECQB1H183JF	P.CAPACITOR 50V 0.018U	2	
C4014		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4015		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4019		ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4020		ECEA50M1	E.CAPACITOR 50V 1U	1	
C4021		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4022		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4023		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4024		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4025		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4026		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4027		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4030		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4031		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4032		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4033		ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4034-36		ECEA1CU100	E.CAPACITOR 16V 10U	3	
C4037		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4039		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4040		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4041		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4042		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C4043		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4044		ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4045-47		ECEA1CU100	E.CAPACITOR 16V 10U	3	
C4048		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4049		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4050		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4051		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4052		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4053		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4055		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4056		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4057-62		ECEA1CU100	E.CAPACITOR 16V 10U	6	
C4063		ECQB1H272JF	P.CAPACITOR 50V 2700P	1	
C4064		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4065		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4066		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4067		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4068		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4069		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4070,71		ECQB1H183JF	P.CAPACITOR 50V 0.018U	2	
C4072		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4073		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4077		ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4078		ECEA50M1	E.CAPACITOR 50V 1U	1	
C4079		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4080		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4081		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4082		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4083		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4084	ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4085	ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4086	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4087	ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C4088	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4089	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4090	ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4091	ECQF6182KZ	P.CAPACITOR 630V 1800P	1	
C4092,93	ECCD2H151J	C.CAPACITOR 500V 150P	2	
C4094,95	ECEA1HU4R7	E.CAPACITOR 50V 4.7U	2	
C4096,97	ECQB1H153JF	P.CAPACITOR 50V 0.015U	2	
D4001	MA4056M	DIODE	1	<R>
D4002	MA151WA	DIODE	1	<R>
D4003	MA151K	DIODE	1	<R>
D4004	MA151WA	DIODE	1	<R>
D4006	MA151WA	DIODE	1	<R>
D4007	MA151K	DIODE	1	<R>
D4008,09	MA3030	DIODE	2	<R>
D4010	MA151WK	DIODE	1	<R>
D4011,12	MA165TA	DIODE	2	<R>
D4013	MA151K	DIODE	1	<R>
D4014	MA151WA	DIODE	1	<R>
D4015	MA151WK	DIODE	1	<R>
D4016,17	MA151K	DIODE	2	<R>
FL4001,02	VLF0402	FILTER	2	
IC4001,02	LA7296	IC	2	<R>
IC4003	CXA1101P	IC	1	<R>
IC4004	RC4558M	IC	1	<R>
IC4005	AN6912S	IC	1	<R>
L4001	VLQEL07F153J	COIL 15MH	1	
L4002	VLQ24F102K25	COIL	1	
L4004	VLQEL07F153J	COIL 15MH	1	
P4001	VJP3176B064	CONNECTOR(MALE)	1	
P4002	VJP1230R	CONNECTOR(MALE) 3P	1	
P4003	VJP1230T	CONNECTOR(MALE) 3P	1	
P4004	VJP1231T	CONNECTOR(MALE) 4P	1	
Q4001	2SD639	TRANSISTOR	1	(Q,R,S)<R>
Q4002	MSB710-R	TRANSISTOR	1	<R>
Q4003	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4004	MSD601-R	TRANSISTOR	1	<R>
Q4005	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4006	MSD601-R	TRANSISTOR	1	<R>
Q4007	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4008	2SB643	TRANSISTOR	1	<R>
Q4009	2SD973A-R	TRANSISTOR	1	<R>
Q4010-17	2SD814	TRANSISTOR	8	(Q,R,S)<R>
Q4018,19	2SB779-R	TRANSISTOR	2	(R,S)<R>
Q4020	MSD602-R	TRANSISTOR	1	<R>
Q4021	MSD601-R	TRANSISTOR	1	<R>
Q4022,23	2SB792	TRANSISTOR	2	(Q,R,S)<R>
Q4024	MSD601-R	TRANSISTOR	1	<R>
Q4025,26	2SB792	TRANSISTOR	2	(Q,R,S)<R>
Q4027,28	MSD601-R	TRANSISTOR	2	<R>
Q4029	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR4001,02	MRN2404	TRANSISTOR	2	<R>
QR4003	MRN1402	TRANSISTOR	1	<R>
QR4004	MRN2404	TRANSISTOR	1	<R>
QR4005	MRN1402	TRANSISTOR	1	<R>
QR4006	MRN2404	TRANSISTOR	1	<R>
QR4007,08	MRN1404	TRANSISTOR	2	<R>
QR4009	MRN1402	TRANSISTOR	1	<R>
QR4010	MRN1404	TRANSISTOR	1	<R>
QR4011	MRN2404	TRANSISTOR	1	<R>
QR4012,13	MRN1404	TRANSISTOR	2	<R>
QR4014	MRN2404	TRANSISTOR	1	<R>
QR4015	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4016	MRN1402	TRANSISTOR	1	<R>
QR4017	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4020	MRN1404	TRANSISTOR	1	<R>
QR4021	UN2115	COMBINATION PARTS	1	<R>
QR4022-24	MRN1404	TRANSISTOR	3	<R>
QR4025	UN2115	COMBINATION PARTS	1	<R>
QR4026,27	MRN1404	TRANSISTOR	2	<R>
QR4028	MRN2404	TRANSISTOR	1	<R>
QR4029	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4030,31	MRN1404	TRANSISTOR	2	<R>
QR4033	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4034	MRN2404	TRANSISTOR	1	<R>
QR4035	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4038	MRN1404	TRANSISTOR	1	<R>
QR4039	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4040,41	MRN1404	TRANSISTOR	2	<R>
QR4042	MRN1402	TRANSISTOR	1	<R>
QR4043	MRN1404	TRANSISTOR	1	<R>
QR4044,45	MRN2404	TRANSISTOR	2	<R>
QR4046	MRN1403	TRANSISTOR	1	<R>
QR4047-50	MRN1404	TRANSISTOR	4	<R>
R4001	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4003,04	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R4005	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4006	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4007,08	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4009	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4010	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4012	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4013-15	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4016	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4017	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4018	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R4019	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4020	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021-23	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4024	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4025	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4026	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4027	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4028	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4029	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4030	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031	ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R4032	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4033	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4034,35	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4036	ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	
R4037	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4038,39	ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	2	
R4040	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4041	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R4042	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4043	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4044	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4045	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4046	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4047	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4048		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4049		ERDS2TJ4R7	C.RESISTOR 1/4W 4.7	1	
R4050		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4051		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4052		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4053		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4054		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4055		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4056		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4057		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4058		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4059		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4060		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4061		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4062		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4063		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4064		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4065		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4066		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R4068		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4069		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4070		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4074		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4075		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4076		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4077		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4078		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4079		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4080		VRE0034E123	M.RESISTOR CH 1/10W 12K	1	
R4081-83		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	3	
R4084		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4085		VRE0034E123	M.RESISTOR CH 1/10W 12K	1	
R4086		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4087		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4088		ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
R4090		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4091		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4095		ERJ6GEYJ683	M.RESISTOR CH 1/10W 6.8K	1	
R4096		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4097		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4098		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4099		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4100		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4101		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4102,03		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R4104		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4105		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4106		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4107		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4108		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4109		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4110		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4111		ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4112		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4113		VRE0034E433	M.RESISTOR CH 1/10W 43K	1	
R4114		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4115		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4116		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4117		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4118		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4119		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4120		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4121		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4122		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4123		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4125		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4126		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4127		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4128		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4129		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4130		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4131		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4132		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4133		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4134		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4135		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4136		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4137		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R4138-48		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	11	
R4150,51		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4152		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4153-58		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	6	
R4159		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
RY4001-03		VSY2067	RELAY	3	
T4001		VLT0538	TRANSFORMER	1	
VR4001		EVN32CA00B53	V.RESISTOR 5K	1	
VR4002		EVN32CA00B15	V.RESISTOR 100K	1	
VR4003		EVN32CA00B25	V.RESISTOR 200K	1	
VR4004		EVN32CA00B15	V.RESISTOR 100K	1	
VR4005		EVN32CA00B14	V.RESISTOR 10K	1	
VR4006		EVN32CA00B24	VARIABLE 20K	1	
VR4007		EVN32CA00B14	V.RESISTOR 10K	1	
VR4008		EVN32CA00B24	VARIABLE 20K	1	
VR4009		EVN32CA00B25	V.RESISTOR 200K	1	
VR4010,11		EVN32CA00B14	V.RESISTOR 10K	2	
			MISCELLANEOUS		
E44		VSC3424	SHIELD	1	
E45		VSC3425	SHIELD	1	
E46		VSC3426	SHIELD	1	
	■	VEP04326D	P.C.BOARD W/COMPONENT		AG-7150-E/B
			AUDIO (1)		
C4001		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4002		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4003		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4004		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4008		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4009		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4014		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4015		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4019		ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4020		ECEA50M1	E.CAPACITOR 50V 1U	1	
C4021		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4022		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4023		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4025		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4026		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4027		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4029		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4030		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4031		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4032		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4033		ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4037		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4039		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4040		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4041		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4042		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C4043		ECEA1CU100	E.CAPACITOR 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4044	ECEA50ZR68	E.CAPACITOR 50V 0.68U	1	
C4048	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4049	ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4051	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4053	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4055	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4056	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4057-62	ECEA1CU100	E.CAPACITOR 16V 10U	6	
C4063	ECQB1H272JF	P.CAPACITOR 50V 2700P	1	
C4064	ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4065	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4066	ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4067	ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4068	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4072	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4073	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4077	ECQB1H182JF	P.CAPACITOR 50V 1800P	1	
C4078	ECEA50M1	E.CAPACITOR 50V 1U	1	
C4079	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4080	ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4081	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4083	ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C4084	ECEA1HU010	E.CAPACITOR 50V 1U	1	
D4001	MA4056M	DIODE	1	<R>
D4002	MA151WA	DIODE	1	<R>
D4003	MA151K	DIODE	1	<R>
D4004	MA151WA	DIODE	1	<R>
D4007	MA151K	DIODE	1	<R>
D4008,09	MA3030	DIODE	2	<R>
D4010	MA151WK	DIODE	1	<R>
D4013	MA151K	DIODE	1	<R>
D4014	MA151WA	DIODE	1	<R>
FL4001,02	VLF0402	FILTER	2	
IC4001,02	LA7296	IC	2	<R>
IC4003	CXA1101P	IC	1	<R>
IC4004	RC4558M	IC	1	<R>
IC4005	AN6912S	IC	1	<R>
P4001	VJP3176B064	CONNECTOR(MALE)	1	
P4002	VJP1230R	CONNECTOR(MALE) 3P	1	
P4003	VJP1230T	CONNECTOR(MALE) 3P	1	
Q4001	2SD639	TRANSISTOR	1	(Q,R,S)<R>
Q4002	MSB710-R	TRANSISTOR	1	<R>
Q4004	MSD601-R	TRANSISTOR	1	<R>
Q4005	2SD1328-R	TRANSISTOR CHIP	1	(R,S)<R>
Q4006	MSD601-R	TRANSISTOR	1	<R>
Q4018,19	2SB779-R	TRANSISTOR	2	(R,S)<R>
Q4020	MSD602-R	TRANSISTOR	1	<R>
QR4003	MRN1402	TRANSISTOR	1	<R>
QR4005	MRN1402	TRANSISTOR	1	<R>
QR4007,08	MRN1404	TRANSISTOR	2	<R>
QR4009	MRN1402	TRANSISTOR	1	<R>
QR4010	MRN1404	TRANSISTOR	1	<R>
QR4011	MRN2404	TRANSISTOR	1	<R>
QR4012	MRN1404	TRANSISTOR	1	<R>
QR4014	MRN2404	TRANSISTOR	1	<R>
QR4017	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4020	MRN1404	TRANSISTOR	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR4021	UN2115	COMBINATION PARTS	1	<R>
QR4023,24	MRN1404	TRANSISTOR	2	<R>
QR4025	UN2115	COMBINATION PARTS	1	<R>
QR4027	MRN1404	TRANSISTOR	1	<R>
QR4028	MRN2404	TRANSISTOR	1	<R>
QR4029	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4034	MRN2404	TRANSISTOR	1	<R>
QR4035	UN2215	TRANSISTOR-RESISTOR	1	<R>
QR4038	MRN1404	TRANSISTOR	1	<R>
R4001	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4002	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4003,04	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R4005	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4006	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4008	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4009	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4010	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4011	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4012	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4013-15	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4016	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4017	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4018	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R4019	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4030	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4031	ERJ6GEYJ680	M.RESISTOR CH 1/10W 68	1	
R4032	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4033	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4034,35	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4036	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4037	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4039	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4040	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4041	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R4042	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4043	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4044	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4045	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4068	ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4074	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4075	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4076	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4078	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4081-83	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	3	
R4084	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4090	ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4095	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4096	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4097	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4099	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4102,03	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R4104	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4105	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4106	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4108	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4109	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4110	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4111	ERDS2TJ2R2	C.RESISTOR 1/4W 2.2	1	
R4112	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4113	VRE0034E433	M.RESISTOR CH 1/10W 43K	1	
R4114	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4123	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4125	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4126	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4127	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R4129	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4157	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4160	ERJ6GEYJ222	M.RESISTOR 1/10W 2.2K	1	
RY4003	VSY2067	RELAY	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4005		EVN32CA00B14	V.RESISTOR 10K	1	
VR4006		EVN32CA00B24	VARIABLE 20K	1	
VR4007		EVN32CA00B14	V.RESISTOR 10K	1	
VR4008		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP04327C	P.C.BOARD W/COMPONENT		
			AUDIO (2)		
C4501		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4502		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4503-05		ECEA1CPZ100	E.CAPACITOR 16V 10U	3	
C4506		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4507,08		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4509,10		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4511		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4512		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4513		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4514		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4515		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4516		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4519		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4520		ECEA1CN100S	E.CAPACITOR 16V 10U	1	
C4521,22		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4523		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4524		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4525		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4526		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C4527,28		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4529,30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4531		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4533		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4534		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4535		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4536,37		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C4538		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4539		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4540		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4541		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4542,43		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4545		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4546		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4547		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4548		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4549		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4550		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4552		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4553		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4554,55		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4556		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4557		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558,59		ECEA1HU4R7	E.CAPACITOR 50V 4.7U	2	
C4560,61		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C4562		ECEA1HN010S	E.CAPACITOR 50V 1U	1	
C4563		ECEA1CU221	E.CAPACITOR 16V 220U	1	
C4564,65		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4566		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4701,02		ECEA1HPZ3R3	E.CAPACITOR 50V 3.3U	2	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4705		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4706		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4709		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4710		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4711		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4712-14		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4715		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4716		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4717		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4718		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4719,20		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4721		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4722		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4723		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4724		ECEA0JU330	E.CAPACITOR 6.3V 33U	1	
C4725		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C4726,27		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4729		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4730		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4731		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4732		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4733		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4734-36		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4737		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4738		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4739		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4740		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4741		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4742		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4743		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4744		ECEA1HPZ010	E.CAPACITOR 50V 1U	1	
C4745		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4746,47		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	2	
C4748		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4749,50		ECEA1APZ101	E.CAPACITOR 10V 100U	2	
C4751		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4752		ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4755,56		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4758		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4759		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4760		ECEA1HPZ010	E.CAPACITOR 50V 1U	1	
C4761		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4762		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4763		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4764		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4765		ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C4766,67		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D4503		MA153	DIODE	1	<R>
D4504		MA3043	DIODE	1	<R>
D4505,06		OA90	DIODE	2	<R>
D4507		MA3043	DIODE	1	<R>
D4508,09		OA90	DIODE	2	<R>
D4511,12		MA700	DIODE	2	<R>
FL4701		VLF0826	FILTER	1	
FL4702		VLF0825	FILTER	1	
IC4501,02		RC4558M	IC	2	<R>
IC4503,04		MC14052BF	IC	2	<R>
IC4505		M51132L	IC	1	<R>
IC4506		RC4558M	IC	1	<R>
IC4507		MC14053BF	IC	1	<R>
IC4508-10		RC4558M	IC	3	<R>
IC4511		MC14053BF	IC	1	<R>
IC4512		MC14066BF	IC	1	<R>
IC4513		NJM4556D	IC	1	<R>
IC4514		RC4558M	IC	1	<R>
IC4701		BA7705K1	IC	1	<R>

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC4702	UPC78N05H	IC	1	<R>
IC4703	AN3912	IC	1	<R>
L4501-04	VLQEL05S101J	COIL 100UH	4	
L4703-05	VLQEL05S101J	COIL 100UH	3	
P4501	VJP3176B064	CONNECTOR(MALE)	1	
P4701	VJP1238T	CONNECTOR(MALE) 11P	1	
Q4501	MSB709-R	TRANSISTOR	1	<R>
Q4502-08	2SD1328-R	TRANSISTOR CHIP	7	(R,S)<R>
Q4509	MSD601-R	TRANSISTOR	1	<R>
Q4510,11	2SD1328-R	TRANSISTOR CHIP	2	(R,S)<R>
Q4701,02	2SD1328-R	TRANSISTOR CHIP	2	(R,S)<R>
Q4703	2SD636-R	TRANSISTOR	1	(R,S)<R>
Q4704,05	MSD601-R	TRANSISTOR	2	<R>
Q4706	XN1501	TRANSISTOR-TRANSISTOR	1	<R>
Q4707	2SB790	TRANSISTOR	1	<R>
QR4501-03	MRN1404	TRANSISTOR	3	<R>
QR4504	MRN1403	TRANSISTOR	1	<R>
QR4505	MRN1404	TRANSISTOR	1	<R>
QR4701	MRN2404	TRANSISTOR	1	<R>
QR4702	MRN1402	TRANSISTOR	1	<R>
QR4703	MRN1404	TRANSISTOR	1	<R>
QR4706	MRN2404	TRANSISTOR	1	<R>
QR4707,08	MRN1404	TRANSISTOR	2	<R>
QR4709,10	MRN2404	TRANSISTOR	2	<R>
QR4711,12	MRN1404	TRANSISTOR	2	<R>
QR4713	MRN2404	TRANSISTOR	1	<R>
QR4714	MRN1404	TRANSISTOR	1	<R>
QR4715	MRN1403	TRANSISTOR	1	<R>
R4501	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4502	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4503	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4504	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4505	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4506	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4507	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4508	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4509	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4510	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4511	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R4512-14	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	3	
R4515,16	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4517-20	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R4521-24	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R4525,26	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4527,28	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4529	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4530	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4531	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4532	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4533	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4534	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4535	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4536	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4537-40	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	4	
R4541,42	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4543-46	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R4547,48	ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	2	
R4549,50	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4551	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4552	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4553	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4554	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4555	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4556	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4557	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4558	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4559,60	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4561	ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4562	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4563,64	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4565	ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4566	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4567	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4568	ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4569	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4570	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4571	ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R4572	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4573-80	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	8	
R4581	ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R4701	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4702	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4703	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4704	VREO034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4705	VREO034E103	M.RESISTOR CH 1/10W 10K	1	
R4706	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4707	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4708	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4709	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4710,11	VREO034E223	M.RESISTOR CH 1/10W 22K	2	
R4712	VREO034E393	M.RESISTOR CH 1/10W 39K	1	
R4713	VREO034E163	M.RESISTOR CH 1/10W 16K	1	
R4714	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4715	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4716,17	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4718	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4719	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4720	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4721	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4722	VREO034E103	M.RESISTOR CH 1/10W 10K	1	
R4723	VREO034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4724	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4725,26	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	2	
R4727	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4728	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4731,32	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R4733,34	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4735,36	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4738	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R4742	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4744	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4745	ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R4746	ERJ6GEYG512	M.RESISTOR CH 1/10W 5.1K	1	
R4747	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4748	ERJ6GEYG512	M.RESISTOR CH 1/10W 5.1K	1	
R4749	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4750	ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4751	ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R4752	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4754	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4755	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4757	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4758,59	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4760	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4761	ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4762	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4764,65	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R4766	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4767	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R4768	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4769	ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4770,71	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R4772,73	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4825	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR4501,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR4503,04		EVN32CA00B53	V.RESISTOR 5K	2	
VR4701,02		EVN32CA00B13	V.RESISTOR 1K	2	
VR4703		EVMF6SA00B14	V.RESISTOR 10K	1	
VR4704		EVN32CA00B24	VARIABLE 20K	1	
VR4705		EVMF6SA00B25	V.RESISTOR 200K	1	
VR4706		EVN32CA00B14	V.RESISTOR 10K	1	
VR4707		EVN32CA00B54	V.RESISTOR 50K	1	
VR4708		EVN32CA00B25	V.RESISTOR 200K	1	
VR4709		EVN32CA00B24	VARIABLE 20K	1	
VR4710		EVMF6SA00B25	V.RESISTOR 200K	1	
VR4711		EVMF6SA00B53	V.RESISTOR 5K	1	
VR4712		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP04327D	P.C.BOARD W/COMPONENT		
			AUDIO (2)		
C4525		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C4526		ECEA1CU220	E.CAPACITOR 16V 22U	1	
C4527,28		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4529,30		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4531		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4534		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4535		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4536,37		ECEA1CU100	E.CAPACITOR 16V 10U	2	
C4538		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4539		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4540		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4541		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4542,43		ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4544		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4545		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4546		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4547		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4548		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4549		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4550		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4551		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4552		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4553		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4554,55		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4556		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4566		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4701,02		ECEA1HPZ3R3	E.CAPACITOR 50V 3.3U	2	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4705		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4706		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4709		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4710		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4711		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4712-14		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4715		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4716		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4717		ECEA1CU471	E.CAPACITOR 16V 470U	1	
C4718		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4719,20		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4721		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4722		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C4723		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4724		ECEA0JU330	E.CAPACITOR 6.3V 33U	1	
C4725		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C4726,27		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4728	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4729	ECEA1AP2101	E.CAPACITOR 10V 100U	1	
C4730	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4731	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4732	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C4733	ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4734-36	ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C4737	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4738	ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4739	ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4740	ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4741	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4742	ECEA1CPZ100	E.CAPACITOR 16V 10U	1	
C4743	ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4745	ECQB1H682JF	P.CAPACITOR 50V 6800P	1	
C4748	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4750	ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4751	ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4752	ECEA1CPZ220	E.CAPACITOR 16V 22U	1	
C4755,56	ECEA1CPZ100	E.CAPACITOR 16V 10U	2	
C4758	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4759	ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4761	ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4762	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4763	ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4764	ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4765	ECQB1H823JF	P.CAPACITOR 50V 0.082U	1	
C4766	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
D4503	MA153	DIODE	1	<R>
FL4701	VLF0826	FILTER	1	
FL4702	VLF0825	FILTER	1	
IC4506	RC4558M	IC	1	<R>
IC4507	MC14053BF	IC	1	<R>
IC4508-10	RC4558M	IC	3	<R>
IC4511	MC14053BF	IC	1	<R>
IC4512	MC14066BF	IC	1	<R>
IC4513	NJM4556D	IC	1	<R>
IC4701	BA7705K1	IC	1	<R>
IC4702	UPC78N05	IC	1	<R>
IC4703	AN3912	IC	1	<R>
L4501,02	VLQEL05S101J	COIL 100UH	2	
L4703-05	VLQEL05S101J	COIL 100UH	3	
P4501	VJP3176B064	CONNECTOR(MALE)	1	
P4701	VJP1238T	CONNECTOR(MALE) 11P	1	
Q4501	MSB709-R	TRANSISTOR	1	<R>
Q4502-08	2SD1328-R	TRANSISTOR CHIP	7	(R,S)<R>
Q4701,02	2SD1328-R	TRANSISTOR CHIP	2	(R,S)<R>
Q4704	MSD601-R	TRANSISTOR	1	<R>
QR4504	MRN1403	TRANSISTOR	1	<R>
QR4701	MRN2404	TRANSISTOR	1	<R>
QR4706	MRN2404	TRANSISTOR	1	<R>
QR4707,08	MRN1404	TRANSISTOR	2	<R>
QR4709,10	MRN2404	TRANSISTOR	2	<R>
QR4712	MRN1404	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR4713		MRN2404	TRANSISTOR	1	<R>
QR4714		MRN1404	TRANSISTOR	1	<R>
R4529		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4530		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4531		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4532		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4533		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4534		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4535		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4536		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4537-40		ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	4	
R4541,42		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4543-46		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R4547,48		ERJ6GEYG682	M.REISITOR CH 1/10W 6.8K	2	
R4549,50		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4551		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4552		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4553		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4554		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4555		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4556		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4557		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4558		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4559,60		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4561		ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4562		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4563,64		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R4565		ERJ6GEYG822	M.RESISTOR CH 1/10W 8.2K	1	
R4566		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4567		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4568		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R4569		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4573-75		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R4701		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4702		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4703		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4704		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4705		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R4706		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4707		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4708		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4709		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4710,11		VRE0034E223	M.RESISTOR CH 1/10W 22K	2	
R4712		VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R4713		VRE0034E163	M.RESISTOR CH 1/10W 16K	1	
R4714		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4715		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4716,17		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4718		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R4719		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4720		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4721		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4722		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R4723		VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4724		ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4725,26		ERJ6GEYG821	M.RESISTOR CH 1/10W 820	2	
R4727		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4730		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4731,32		ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R4733,34		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4735,36		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R4737		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4738		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R4750		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4751		ERJ6GEYG113	M.RESISTOR CH 1/10W 11K	1	
R4752		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4755		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R4757		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4758,59		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4760		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4761		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R4762		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4768		ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4769		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4772,73		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
VR4703		EVMF6SA00B14	V.RESISTOR 10K	1	
VR4704		EVN32CA00B24	VARIABLE 20K	1	
VR4705		EVMF6SA00B25	V.RESISTOR 200K	1	
VR4707		EVN32CA00B54	V.RESISTOR 50K	1	
VR4708		EVN32CA00B25	V.RESISTOR 200K	1	
VR4710		ECMF6SA00B25	V.RESISTOR	1	
VR4711		EVMF6SA00B53	V.RESISTOR 5K	1	
VR4712		EVN32CA00B24	VARIABLE 20K	1	
	■	VEP05162C	P.C.BOARD W/COMPONENT		AG-7350-E/B
			HEAD AMP		
C5001		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5004		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5006-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C5009		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C5010		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5011		ECEA1CKA220	E.CAPACITOR 16V 22U	1	
C5012		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C5013		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5014		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5015		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5016		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5017		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5018,19		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	2	
C5020		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5021		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5022		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5023		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5024,25		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5026		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5027		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5029		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5030		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5031		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5032,33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5034		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5035		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5036		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5037,38		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5039,40		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5042		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5043		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5044,45		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C5046		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5047		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5048		ECUM1H472ZFN	C.CAPACITOR CH 50V 4700P	1	
C5056,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5058		VCYE1C104MR1	S.CAPACITOR 16V 0.1U	1	
C5059		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5060		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C5061		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5062		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5063		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5066		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
D5001,02		MA151K	DIODE	2	<R>
D5004		MA151K	DIODE	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC5001		AN3334K	IC	1	<R>
IC5002		BA7740FS	IC	1	<R>
IC5003		AN3370K	IC	1	<R>
L5001-04		VLQ0460	COIL	4	
L5007		VLQ0460	COIL	1	
L5008		VLQ0188J5R6	COIL	1	
P5001		VJP1251T	CONNECTOR(MALE) 11P	1	
P5002		VJS2603	CONNECTOR(FEMALE) 12P	1	
P5003		VJP1251T	CONNECTOR(MALE) 11P	1	
Q5001		MSB709-R	TRANSISTOR	1	<R>
Q5002		MSC2295-B	TRANSISTOR	1	<R>
Q5003		XN4504	TRANSISTOR	1	<R>
Q5004,05		MSC2295-B	TRANSISTOR	2	<R>
QR5001		MRN1404	TRANSISTOR	1	<R>
R5001		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R5002		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R5003		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5004		ERJ6GEYJ101V	M.RESISTOR CH 1/10W 100	1	
R5005		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5006		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5007		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5009		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R5010		ERJ6GEYK1R0	M.RESISTOR CH 1/10W 1	1	
R5011-14		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	4	
R5015-18		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	4	
R5019		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5020,21		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R5022		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5026		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5027		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R5028		ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R5029		ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5030		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5031		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R5032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R5033		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R5034		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R5036		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5037,38		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R5039		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5040		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R5041		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R5042,43		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R5044,45		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R5046,47		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5056		VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R5057		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R5058		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5059		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
VR5001,02		EVN32CA00B23	V.RESISTOR 2K	2	
			MISCELLANEOUS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E49		VSC3119	SHIELD (MAIN)	1	
E50		VSC3039	SHIELD (TOP)	1	
E51		VSC3040	SHIELD (BOTTOM)	1	
E52		VJF0215	BAIND	1	
	■	VEP05162D	P.C.BOARD W/COMPONENT		
			HEAD AMP		
C5001		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5002,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C5004		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5005		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5010		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5013		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5014		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5015		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5016		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5017		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5018,19		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	2	
C5020		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5021		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C5022		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5023		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5024,25		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5026		ECUM1H020DCN	C.CAPACITOR CH 50V 2P	1	
C5027		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C5028		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5029		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5032,33		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5034		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5035		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C5036		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5037		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C5039		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C5042		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5043		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5044,45		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C5046		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C5047		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C5048		ECUM1H472ZFN	C.CAPACITOR CH 50V 4700P	1	
C5066		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
D5001,02		MA151K	DIODE	2	<R>
IC5001		AN3334K	IC	1	<R>
IC5002		BA7740FS	IC	1	<R>
L5001		VLQ0460	COIL	1	
L5003		VLQ0460	COIL	1	
P5001		VJP1251T	CONNECTOR(MALE) 11P	1	
P5002		VJS2603	CONNECTOR(FEMALE) 12P	1	
P5003		VJP1251T	CONNECTOR(MALE) 11P	1	
Q5001		MSB709-R	TRANSISTOR	1	<R>
Q5003		XN4504	TRANSISTOR	1	<R>
Q5005		MSC2295-B	TRANSISTOR	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR5001		MRN1404	TRANSISTOR	1	<R>
R5001		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R5002		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R5003		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R5004		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R5005		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R5006		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5007		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R5010		ERJ6GEYK1R0	M.RESISTOR CH 1/10W 1	1	
R5011-14		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	4	
R5015-18		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	4	
R5019		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R5022		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R5026		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5027		ERJ6GEYJ333	M.RESISTOR CH 1/10W 33K	1	
R5028		ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R5029		ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5030		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R5031		ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	
R5032		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R5034		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R5036		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5037,38		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R5039		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R5041-43		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	3	
R5044,45		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2	
R5046,47		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5059		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
			MISCELLANEOUS		
E49		VSC3119	SHIELD (MAIN)	1	
E50		VSC3039	SHIELD (TOP)	1	
E51		VSC3040	SHIELD (BOTTOM)	1	
E52		VJF0215	BAIND	1	
	■	VEP06749C	P.C.BOARD W/COMPONENT		AG-7350-E/B
			FRONT		
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209,10		LN440YCPUVT	DIODE	2	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6211		LN840RCP	DIODE	1	<R>
D6212-35		MA151K	DIODE	24	<R>
D6236,37		MA165TA5VT	DIODE	2	<R>
D6238		MA4051L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6243		MA151K	DIODE	1	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL3	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
L6201		VLQEL05K101J	COIL 100UH	1	
P6201-04		VJP3152	CONNECTOR(MALE) 10P	4	
P6205		VJP1237T	CONNECTOR(MALE) 10P	1	
P6206		VJP1231T	CONNECTOR(MALE) 4P	1	
P6207		VJP1236T	CONNECTOR(MALE) 9P	1	
P6208		VJP1247T	CONNECTOR(MALE) 7P	1	
P6209		VJP1394T	CONNECTOR(MALE) 13P	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR	1	<R>
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6207-11		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R6220-23		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6226-33		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	C.RESISTOR 1/4W 3.3K	1	
R6236		ERJ6GEYJ103	C.RESISTOR 1/4W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6244		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6251		ERJ6GEYJ103V	M.RESISTOR CH 1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
RA6201-04		EXBF5E103J	COMBI.R-R 10K	4	
RA6205		EXBF5E473J	RESISTOR-RESISTOR	1	
SW6201-17		EVQQJ104K	SWITCH	17	<R>
SW6218,19		VSS0324	SWITCH	2	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224,25		VSS0225	SWITCH	2	<R>
SW6226		VSS0324	SWITCH	1	<R>
SW6227		VSS0225	SWITCH	1	<R>
X6201		VSX0094	CRYSTAL OSCILLATOR	1	<R>
X6202		VSX0140	CRYSTAL OSCILLATOR	1	<R>
	■	VEP06749D	P.C.BOARD W/COMPONENT FRONT		AG-7150-E/B
C6201		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C6202		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C6203		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6204		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C6205		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C6206		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C6207		ECEA0JU102	E.CAPACITOR 6.3V 1000U	1	
C6208		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6209		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C6210		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
C6211		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6212		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6213,14		ECEA0JKS101	E.CAPACITOR 6.3V 100U	2	
C6215		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6216		ECEA1CKS330	E.CAPACITOR 16V 33U	1	
C6217		ECEA1HKS220	E.CAPACITOR 50V 22U	1	
D6201-05		LN440YCPUVT	DIODE	5	<R>
D6206		MA151K	DIODE	1	<R>
D6207,08		LN31GCPHLG4	DIODE	2	<R>
D6209		LN440YCPUVT	DIODE	1	<R>
D6212-16		MA151K	DIODE	5	<R>
D6218-22		MA151K	DIODE	5	<R>
D6224-35		MA151K	DIODE	12	<R>
D6236,37		MA165TA5VT	DIODE	2	<R>
D6238		MA4051-L	DIODE	1	<R>
D6239-41		MA151K	DIODE	3	<R>
D6244		LN440YCPUVT	DIODE	1	<R>
D6245-47		MA151K	DIODE	3	<R>
D6248		MA700A	DIODE	1	<R>
D6249		MA4300M	DIODE	1	<R>
DP6201		VSL0254	DISPLAY TUBE	1	
IC6201		MN15283VSTL3	IC	1	<R>
IC6202		MN1220	IC	1	<R>
IC6203		MN1280R	IC	1	<R>
IC6204		MN1280L	IC	1	<R>
IC6205		AN78M05F	IC	1	<R>
J6203,04		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
L6201		VLQEL05K101J	COIL 100UH	1	
P6201-04		VJP3152	CONNECTOR(MALE)	4	
P6205		VJP1237T	CONNECTOR(MALE) 10P	1	
P6206		VJP1231T	CONNECTOR(MALE) 4P	1	
P6207		VJP1236T	CONNECTOR(MALE) 9P	1	
P6208		VJP1247T	CONNECTOR(MALE) 7P	1	
Q6201-04		2SB643	TRANSISTOR	4	<R>
Q6205-09		2SD636	TRANSISTOR	5	<R>
Q6210		2SB642	TRANSISTOR	1	<R>
QR6201-05		MRN1404	TRANSISTOR	5	<R>
QR6206		UN1112	TRANSISTOR-RESISTOR	1	<R>
QR6207		MRN1404	TRANSISTOR	1	<R>
R6201-05		ERDS2TJ470	C.RESISTOR 1/4W 47	5	
R6206		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6207-09		ERDS2TJ470	C.RESISTOR 1/4W 47	3	
R6212-15		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R6216-19		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	4	
R6220-23		ERJ6GEYJ332V	M.RESISTOR CH 1/10W 3.3K	4	
R6224		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R6225		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6226-33		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	8	
R6234		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R6235		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6236		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R6237		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R6238		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6239		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R6240,41		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R6242		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R6243		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R6245		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6246		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R6247,48		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R6249		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R6250		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R6251		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
RA6201-04		EXBF5E103J	COMBI.R-R 10K	4	
RA6205		EXBF5E473J	RESISTOR-RESISTOR	1	
SW6201		EVQQJ104K	SWITCH	1	<R>
SW6203-07		EVQQJ104K	SWITCH	5	<R>
SW6209-17		EVQQJ104K	SWITCH	9	<R>
SW6218		VSS0225	SWITCH	1	<R>
SW6220		VSS0225	SWITCH	1	<R>
SW6221		VSS0152	SWITCH	1	<R>
SW6222		VSS0225	SWITCH	1	<R>
SW6223		VSS0324	SWITCH	1	<R>
SW6224		VSS0225	SWITCH	1	<R>
SW6226		VSS0225	SWITCH	1	<R>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X6201		VSX0094	CRYSTAL OSCILLATOR	1	<R>
X6202		VSX0140	CRYSTAL OSCILLATOR	1	<R>
			MISCELLANEOUS		
E48		VMX2062	LED SPACER	2	
E53		VJF0960	DISPLAY TUBE HOLDER	1	
	■	VEP04328A	P.C.BOARD W/COMPONENT		
			AUDIO METER		
D4201-06		LN440YCPUVT1	DIODE	6	<R>
D4207,08		MA165VT	DIODE	2	<R>
P4201		VJP1393T	CONNECTOR(MALE) 13P	1	
R4201,02		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
R4203		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4204		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4205		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R4206		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R4207,08		EROS2CKG5100	M.RESISTOR 1/4W 510	2	
R4209,10		ERDS2TJ151	C.RESISTOR 1/4W 150	2	
VR4201-04		EVJ9MA040B14	V.RESISTOR 10K	4	
			MISCELLANEOUS		
E54		VMP3282	METER ANGLE	1	
E55		VGF0245	AUDIO METER HOLDER	2	
E56		VSE0117	CH1 METER	1	
E57		VSE0115	CH2 METER	1	
	■	VEP04342A	P.C.BOARD W/COMPONENT		
			FRONT JACK		
C4901,02		ECKF1H101KB	C.CAPACITOR 50V 100P	2	
			F C CAPACITO		
J4901		VJJ0094	HEADPHONE JACK	1	
L4901,02		VLQEL05S101J	COIL 100UH	2	
P4901		VJP1231T	CONNECTOR(MALE) 4P	1	
P4902		VJP1234T	CONNECTOR(MALE) 7P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4901		ERDS2TJ563	C.RESISTOR 1/4W 56K	1	
R4902		ERDS2TJ393	C.RESISTOR 1/4W 39K	1	
R4903		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
VR4901		EWKH1A015B23	V.RESISTOR 2K	1	
VR4902,03		EWHH1A091B15	V.RESISTOR 100K	2	
VR4904		EWHH1A091B24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
E59		VMP3223	FRONT JACK ANGLE	1	
E60		VGU5605	VR KNOB	2	
E61		VGU5635	VR KNOB	2	
	■	VEP04343A	P.C.BOARD W/COMPONENT		
			MIC JACK		
C4301		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4302		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4303-05		ECEA1CKA470	E.CAPACITOR 16V 47U	3	
C4306		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4307		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4308		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
FL4301,02		VLF0523	FILTER	2	
IC4301		NJM2068MD	IC	1	<R>
J4301,02		VJJ0078	MIC JACK	2	
P4301		VJP1234T	CONNECTOR(MALE) 7P	1	
Q4301		MSD602-R	TRANSISTOR	1	<R>
R4301,02		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R4303		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R4304		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R4305		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R4306		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4307,08		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R4309		ERJ6GEYJ124	M.RESISTOR CH 1/10W 120K	1	
R4310		ERJ6GEYJ753	M.RESISTOR CH 1/10W 75K	1	
R4311,12		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	2	
R4314,15		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4316		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
			MISCELLANEOUS		
E62		VSC3429	SHIELD CASE	1	
E63		VMP3224	MIC JACK ANGLE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP00S01B	P.C.BOARD W/COMPONENT		AG-7350-E/B
			MOTHER		
P911		VJP1932T	CONNECTOR(MALE) 15P	1	
P931-33		VJS2898	CONNECTOR(FEMALE) 64P	3	
P935		VJP1230T	CONNECTOR(MALE) 3P	1	
P941,42		VJS2898	CONNECTOR(FEMALE) 64P	2	
P961-63		VJS2123	CONNECTOR(FEMALE) 18P	3	
P964		VJP1242T	CONNECTOR(MALE) 2P	1	
P971		VJS3152	CONNECTOR(FEMALE) 10P	1	
P972		VJP1244T	CONNECTOR(MALE) 4P	1	
P973-75		VJS3152	CONNECTOR(FEMALE) 10P	3	
P976		VJP1251T	CONNECTOR(MALE) 11P	1	
P991-93		VJS3152	CONNECTOR(FEMALE) 10P	3	
			MISCELLANEOUS		
E64		VMP3217	MOTHER ANGLE (REAR)	1	
E65		VMP3218	MOTHER ANGLE (FRONT)	1	
E66		VMX0985	SPACER	1	
E67		XTV26+8F	SCREW	15	
E68		VWJ18SW100LL	FLEXIBLE WIRE	3	
	■	VEP00S01C	P.C.BOARD W/COMPONENT		AG-7150-E/B
			MOTHER		
P911		VJP1932T	CONNECTOR(MALE) 15P	1	
P931-33		VJS2898	CONNECTOR(FEMALE) 64P	3	
P941,42		VJS2898	CONNECTOR(FEMALE) 64P	2	
P961-63		VJS2123	CONNECTOR(FEMALE) 18P	3	
P964		VJP1242T	CONNECTOR(MALE) 2P	1	
P971		VJS3152	CONNECTOR(FEMALE) 10P	1	
P972		VJP1244T	CONNECTOR(MALE) 4P	1	
P973-75		VJS3152	CONNECTOR(FEMALE) 10P	3	
P976		VJP1251T	CONNECTOR(MALE) 11P	1	
P991-93		VJS3152	CONNECTOR(FEMALE) 10P	3	
			MISCELLANEOUS		
E64		VMP3217	MOTHER ANGLE (REAR)	1	
E65		VMP3218	MOTHER ANGLE (FRONT)	1	
E66		VMX0985	SPACER	1	
E67		XTV26+8F	SCREW	15	
E68		VWJ18SW100LL	FLEXIBLE WIRE	3	
	■	VEP01502A	P.C.BOARD W/COMPONENT		
			SWITCHING POWER SUPPLY		
C1007		ECOS2GG181N	E.CAPACITOR 200V 180U	1	
C1008		VCK0042	C.CAPACITOR	1	<!><R>
C1009		ECEA2GG010	E.CAPACITOR 400V 1U	1	
C1010		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1011		ECKD3D331KBN	C.CAPACITOR 3KV 1000P	1	
C1012		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1013		ECQB1H472JH	P.CAPACITOR 50V 4700P	1	
C1014		ECQV1H824JZ	P.CAPACITOR 50V 0.82U	1	
C1015		ECA1CXLV470	E.CAPACITOR 16V 47U	1	
C1016		ECA1VFQ391	E.CAPACITOR 35V 390U	1	
C1017		ECEA1VGE331	E.CAPACITOR 35V 330U	1	
C1018		ECA1EFZ561L	E.CAPACITOR 25V 560U	1	
C1019		ECEA1DPS122	E.CAPACITOR 20V 1200U	1	
C1020		ECA1EFZ102L	E.CAPACITOR 25V 1000U	1	
C1022		ECEA2AFE220	E.CAPACITOR 100V 22U	1	
C1023		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1024		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1025-27		ECQB1H103JH	P.CAPACITOR 50V 0.01U	3	
C1028		ECEA1HNX100	E.CAPACITOR 50V 10U	1	
C1029		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1030,31		ECEA1AGE101	E.CAPACITOR 10V 100U	2	
C1032		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1035,36		ECCF1H101JC	C.CAPACITOR 50V 100P	2	
C1037		ECQB1H153JZ	P.CAPACITOR 50V 0.015U	1	
C1038		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1045		VCK0042	C.CAPACITOR	1	
C1046		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
D1002-05		RM2B	DIODE	4	<R>
D1006		VSD0002	DIODE	1	<R>
D1007		AP01C	DIODE	1	<R>
D1009		MA178	DIODE	1	<R>
D1010,11		FMLG12SP	DIODE	2	<R>
D1012		MA2200B	DIODE	1	<R>
D1013		FML12SP	DIODE	1	<R>
D1015,16		VSD0001	DIODE	2	<R>
D1017		AK04	DIODE	1	<R>
D1018,19		MA178	DIODE	2	<R>
D1020		MA4030L	DIODE	1	<R>
D1021		MA165VT	DIODE	1	<R>
IC1001		STRD6009E	IC	1	<R>
IC1002		SE013E	IC	1	<R>
IC1003		STK5382	IC	1	<R>
L1002,03		VLQ0354	COIL	2	
L1004		ELC07D220	COIL 22UH	1	
L1005		VLQ0354	COIL	1	
P1002		VJP1930T	CONNECTOR(MALE) 15P	1	
P1003		VJP1243T	CONNECTOR(MALE) 3P	1	
Q1001		PC111A	PHOTO COUPLER	1	<R>
Q1002		2SD639	TRANSISTOR	1	(R,S)<R>
R1002,03		ERDS2TJ683	C.RESISTOR 1/4W 68K	2	
R1004,05		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R1006		ERG2ANJ683U	M.RESISTOR 2W 68K	1	
R1007		ERG2SJ560U	M.RESISTOR 2W 56	1	
R1009		EROS2CKG2000	M.RESISTOR 1/4W 200	1	
R1010		ERD2FCG102	C.RESISTOR 2W 1K	1	
R1011		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1012		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1013		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1014		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
R1016		ERQ12HJ180	F.RESISTOR 1/2W 18	1	
R1018		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R1019		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R1020		ERG2SJ220U	M.RESISTOR 2W 22	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1021		ERF5AK1R8	W.RESISTOR 5W 1.8K	1	
T1001		VLT0651	TRANSFORMER	1	<!><R>
	■	VEP01503A	P.C.BOARD W/COMPONENT		
			POWER SUPPLY SUB		
C1001		VCK0045	C.CAPACITOR 250V 1500P	1	<!><R>
C1002		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!><R>
C1003-05		VCK0045	C.CAPACITOR 250V 1500P	3	<!><R>
C1006		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!><R>
D1001		SNR-300K4	SURGE ABSORBER	1	<R>
F1001		XBA2C25TB0	FUSE	1	<R><!>
L1001		ELF18D616	COIL	1	
P1001		VJP2639	CONNECTOR(MALE)	1	
			MISCELLANEOUS		
E69		VMZ1305	CAPACITOR COVER (L)	2	
E70		VJF0318	FUSE HOLDER	2	<!><R>
E71		VMZ0429	FUSE COVER	1	<!><R>
E72		VMZ0965	CAPACITOR COVER (S)	4	
	■	VEP01478B	P.C.BOARD W/COMPONENT		
			AC PLUG		
C1101,02		ECQU2A224MN	P.CAPACITOR 250V 0.22U	2	<!><R>
L1101		ELF18D618F	COIL	1	
P1101		VJP2638	CONNECTOR(MALE) 4P	1	<!><R>
P1102		VJS2985	CONNECTOR(FEMALE)	1	<!><R>
R1101		ERC12GM334	S.RESISTOR 1/2W 330K	1	
			MISCELLANEOUS		
E73		VMZ1305	CAPACITOR COVER (L)	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01471A	P.C.BOARD W/COMPONENT		
			POWER DETECT		
C1201		ECEA1HGE4R7	E.CAPACITOR 50V 4.7U	1	
C1202		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1203		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C1204		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1205		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1206		ECEA1EGE470	E.CAPACITOR 25V 47U	1	
C1207		ECEA1HGE3R3	E.CAPACITOR 50V 3.3U	1	
C1208		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1209		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C1210		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1211		ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C1213		ECEA1CGE102	E.CAPACITOR 16V 1000U	1	
C1214		ECEA0JGE331	E.CAPACITOR 6.3V 330U	1	
C1215		ECEA1CGE221	E.CAPACITOR 16V 220U	1	
C1216		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
D1017		MA165VT	DIODE	1	<R>
D1201,02		MA151WA	DIODE	2	<R>
D1204		MA151K	DIODE	1	<R>
D1205		MA151WK	DIODE	1	<R>
D1206		MA151K	DIODE	1	<R>
D1207		MA4047M	DIODE	1	<R>
D1207		MA4150M	DIODE	1	<R>
D1208,09		MA151K	DIODE	2	<R>
D1210		MA4056-M	DIODE	1	<R>
D1211		MA165VT	DIODE	1	<R>
D1211,12		MA165VT	DIODE	2	<R>
D1212		MA165VT	DIODE	1	<R>
D1214		FMB-G14L	DIODE	1	<R>
IC1201		STR90120	IC	1	<R>
IC1202		LM393PS	IC	1	<R>
IC1203		SI3050C	IC	1	<R>
P1201		VJP1932T	CONNECTOR(MALE) 15P	1	
P1202		VJP1230T	CONNECTOR(MALE) 3P	1	
P1203		VJP1239T	CONNECTOR(MALE) 12P	1	
P1204		VJP1932T	CONNECTOR(MALE) 15P	1	
Q1201		MSD601-R	TRANSISTOR	1	<R>
Q1202		8P2M	TRANSISTOR	1	<R>
Q1203		MSD601-R	TRANSISTOR	1	<R>
QR1202		MRN1404	TRANSISTOR	1	<R>
QR1203		UN1212	TRANSISTOR-RESISTOR	1	<R>
QR1204		UN2224	TRANSISTOR-RESISTOR	1	<R>
R1202		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1203		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R1204		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R1205		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R1206		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1207		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R1208		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R1210		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1211		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R1212		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R1213		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1214		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R1215		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R1216		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R1218		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
			MISCELLANEOUS		
E74		VMX0985	SPACER	1	
E75		VSC3076	HEAT SINK	1	
E77		XTV3+8F	SCREW	2	
E78		VSC3447	HEAT SINK	1	
E79		VMZ1352	HEAT SINK COVER	1	
	■	VEP04344A	P.C.BOARD W/COMPONENT		AG-7350-E/B
			REAR JACK		
J6901		VJS3155	S-VIDEO IN JACK	1	
J6902,03		VJS3154	VIDEO IN JACK	2	
J6904		VJS3155	S-VIDEO OUT JACK	1	
J6905,06		VJS3154	VIDEO OUT JACK	2	
J6907,08		VJJ0324	AUDIO JACK	2	
J6909-12		VJJ0323	VIDEO OUT JACK	4	
P6901-03		VJP3152	CONNECTOR(MALE)	3	
R6901-04		ERDS2TJ750	C.RESISTOR 1/4W 75	4	
	■	VEP04344B	P.C.BOARD W/COMPONENT		AG-7150-E/B
			REAR JACK		
J6903		VJS3154	VIDEO IN JACK	1	
J6904		VJS3155	S-VIDEO OUT JACK	1	
J6905,06		VJS3154	VIDEO OUT JACK	2	
J6909,10		VJJ0323	VIDEO OUT JACK	2	
J6911,12		VJJ0322	MONITOR JACK	2	
P6901-03		VJP3152	CONNECTOR(MALE)	3	
R6904		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
	■	VEP06538C	P.C.BOARD W/COMPONENT		
			34PIN		
C6601,02		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6603		ECKF1H391KB	C.CAPACITOR 50V 390P	1	
C6604		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6605		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C6606		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6607		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C6608		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6609		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6610		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6611		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6612		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6613		ECQB1H332JZ	P.CAPACITOR 50V 3300P	1	
CA6601		EXFP8102ZW	COMBI R-R	1	
CA6602		VCR0329103MB	IC	1	
CA6603		EXFP8102ZW	COMBI R-R	1	
IC6601		MN15362VMP	IC	1	<R>
IC6602		MN1280R	IC	1	<R>
IC6603		AN90B22	IC	1	<R>
L6601		VLQEL05F101K	COIL 100UH	1	
P6601		VJP1250T	CONNECTOR(MALE) 10P	1	
P6602		VJS1327	CONNECTOR(FEMALE) 34P	1	
Q6601-03		2SD636-R	TRANSISTOR	3	(Q,R)<R>
QR6609		UN1211	TRANSISTOR-RESISTOR	1	<R>
R6601		ERQ12AJ3R9P	F.RESISTOR 1/2W 3.9	1	
R6602		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6603		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R6604-12		ERDS2TJ103	C.RESISTOR 1/4W 10K	9	
R6613,14		ERDS2TJ153	C.RESISTOR 1/4W 15K	2	
R6615		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R6616		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R6617		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
			MISCELLANEOUS		
E80		XTN26+10F	SCREW	2	
E81		XTN3+8JFZ	SCREW	1	
E82		VMX0674	CONNECTOR SPACER	1	
E83		VGH1979	PLATE	1	
E84		VMP2085	ANGLE	1	
E85		VMX1636	SPACER	1	
	■	VEK5556	P.C.BOARD W/COMPONENT		
			SEARCH DIAL UNIT		
			MISCELLANEOUS		
E86		VJP1249T	CONNECTOR 9P	1	
E87		VSQ0651	JOG/SHUTTLE UNIT	1	
E88		XTV3+6F	SCREW	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
E89		XTV3+8J	SCREW	3	
E90		XYE3+EF6	SCREW	1	
	■	VEK3578	P.C.BOARD W/COMPONENT		
			PHOTO TR (L) UNIT		
C1501		ECKW1H102KB	C.CAPACITOR 50V 1000P	1	
Q1501		PN150NVS	PHOTO TR	1	
			MISCELLANEOUS		
E91		VMD0645	PHOTO TR HOLDER	1	
	■	VEK4058	P.C.BOARD W/COMPONENT		
			PHOTO TR (R) UNIT		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
P1508		VJS2165W	CONNECTOR(FEMALE) 6P	1	
Q1502		PN150NVS	PHOTO TR	1	
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
E92		VMD0645	HOLDER	1	
	■	VEK2657	P.C.BOARD W/COMPONENT		
			TENSION SENSOR UNIT		
Q1504		ON1301	PHOTO INTERRUPTOR	1	<R>
R1502		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
	■	VEK4265	P.C.BOARD W/COMPONENT		
			REV TENSION SENSOR UNIT		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
E156		VMA7987	REV PHOTO HOLDER	1	
E157		ON1108	PHOTO INTERRUPTOR	1	
E94		XYN26+C5	SCREW	1	
	■	VEK4163	P.C.BOARD W/COMPONENT		
			MOTOR BASE		
P1502		VJP1511T	CONNECTOR(MALE) 11P	1	
P1503		VJP1229G	CONNECTOR(MALE) 2P	1	
P1513		VJP1229T	CONNECTOR(MALE) 2P	1	
P1514		VJP1229R	CONNECTOR(MALE) 2P	1	
P1515		VJP1232T	CONNECTOR(MALE) 5P	1	

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