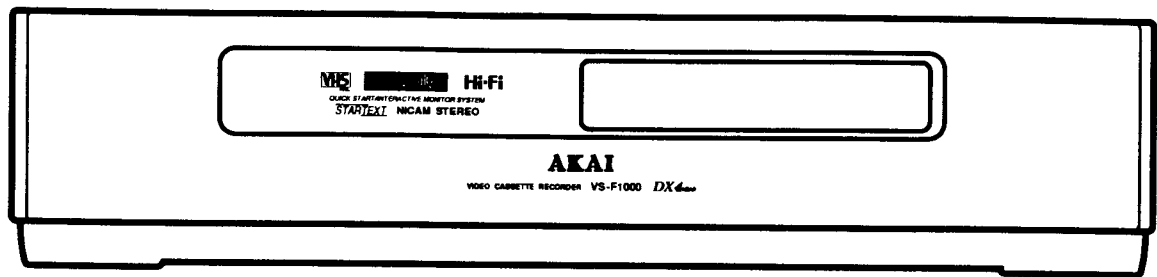


# AKAI SERVICE MANUAL



**HQ**  
HIGH QUALITY

**VHS**  
PAL

**Hi-Fi** **NICAM**  
DIGITAL STEREO

MODEL VS-F1000EK-VN

VIDEO CASSETTE RECORDER

MODEL **VS-F1000** EK-VN/EOG-VD

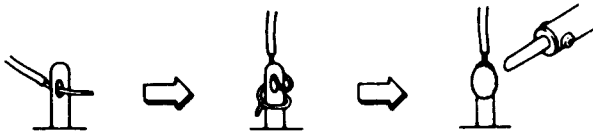
MODEL **VS-F1010** EOH-D/EOH-N

MODEL **VS-F1030** EOH-DN

# ★ SAFETY INSTRUCTIONS

## PRECAUTIONS DURING SERVICING

1. Parts identified by the  $\triangle$  (\*) symbol are critical for safety. Replace them only with the parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.  
These must also be replaced only with the specified replacements.  
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers (insulating barriers)
  - 4) Insulation sheets for transistors
  - 5) Plastic screws for fixing micro switches
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



6. Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Make sure that foreign objects (screws, solder drops, etc.) do not remain inside the set.

## SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15  $\mu$ F capacitor, under the unit's normal working conditions.

The leakage-current should be less than 0.5 mA rms AC. The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

## MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown



into the garbage can.

Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste.

# ★ SPECIFICATIONS

<b>Format</b> EK ..... VHS standard EOG/EOH ..... VHS standard (PAL, MESECAM)	<b>Video</b> Line input level ..... 0.5 - 2.0Vp-p / 75 ohms, unbalanced Line output level ..... 1.0Vp-p / 75 ohms, unbalanced S/N ratio ..... More than 45dB Horizontal resolution .... More than 250 lines
<b>Video recording system</b> ..... Rotary, slant azimuth two-head helical scan system <b>Rotary heads</b> ..... 4 video heads & 2 audio heads & 1 flying erase head	<b>Audio</b> ..... (VHS Hi-Fi: 2 ch, Linear: 1 ch) Line input level ..... -6dBs / 50k ohms, unbalanced Line output level ..... -6dBs / 1k ohms, unbalanced Dynamic range ..... More than 90dB (VHS Hi-Fi) Frequency response .... 20 - 20,000Hz (VHS Hi-Fi) Wow & Flutter ..... Less than 0.005% WRMS (VHS Hi-Fi)
<b>RF input</b> EK-VN ..... System I with monaural or multiplexed 2 channel audio (NICAM) UHF ch 21 - 69 EOG-VD ..... System B, G (PAL, SECAM) with monaural or multiplexed 2 channel audio VHF ch 2 - 4, 5 - 12, UHF ch 21 - 69 Cable ch S1' - S3', S1 - S20 EOH-D ..... System B, G (PAL, SECAM) with monaural or multiplexed 2 channel audio VHF ch 2 - 4, 5 - 12, UHF ch 21 - 69 Cable ch S1' - S3', S1 - S41 EOH-DN/EOH-N ..... System B, G (PAL, SECAM) with monaural or multiplexed 2 channel audio (NICAM) VHF ch 2 - 4, 5 - 12, UHF ch 21 - 69 Cable ch S1' - S3', S1 - S41	<b>Recording/playback time</b> SP mode ..... 240min. with E-240 cassette LP mode ..... 480min. with E-240 cassette <b>Tape speed</b> SP mode ..... 23.39mm/sec LP mode ..... 11.695mm/sec <b>Quick finder</b> SP mode ..... approx. 5 or 13 times normal speed LP mode ..... approx. 3 or 7 times normal speed <b>FF, REW time</b> ..... approx. 4.5min. with E-180 cassette
<b>RF output</b> EK ..... System I type modulation UHF ch 30 - 39 adjustable (preset ch 36) EOG/EOH ..... System G type modulation UHF ch 30 - 39 adjustable (preset ch 36)	<b>Timer</b> Program ..... 8 programs / year and QUICK TIMER Clock reference ..... Quartz crystal <b>Display</b> ..... TV screen & FL (Tape counter, Timer etc.)
<b>Recording (line input)</b> EK ..... PAL EOG/EOH ..... PAL, SECAM (recorded as MESECAM)	<b>Power requirements</b> EK ..... 240V AC, 50Hz EOG (V) ..... 230V AC, 50Hz EOG (Y1), EOH ..... 220 - 230V AC, 50Hz
<b>Playback (line output)</b> EK ..... PAL EOG/EOH ..... PAL, SECAM (MESECAM Tape)	<b>Power consumption</b> EK-VN/EOH-D/EOH-N 44W EOG-VD ..... 41W EOH-DN ..... 47W Operating temperature .. 5°C - 40°C Dimensions ..... 425 (W) x 99 (H) x 365 (D) mm Weight ..... 7.0kg
	<b>Standard accessories</b> Connection cord ..... 1 Remote control unit ..... 1 Batteries for remote control ..... 3 Operator's manual ..... 1

0 dBs = 0.775V

\* For improvement purposes, specifications and design are subject to change without notice.

# ★ INFORMATION

## SYMBOLS OF MODEL NAMES FOR PRIMARY DESTINATION

The symbols below indicate the destination of each unit.

Symbol	Power Classification	Principal Destination	TV System	
			Color	Broadcast
EA	S	Australia	PAL	B,G
ED	E	China	PAL	D
EDG	E	East Europe	PAL	D,K
EDI	E	China, Hong Kong	PAL	D,K, I
EG	E	Spain, Northern Europe, Other	PAL	B,G
	Y7	Saudi Arabia		
EK	B	U.K	PAL	I
	Y1	Hong Kong		
EM	E	Middle East	PAL	B,G
	Y7	Saudi Arabia		
EO	E	Holland, Switzerland, Northern Europe	PAL	B,G
	V	Italy		
EOH	E	Holland, Belgium	PAL	B,G
	V	Italy		
EOG	V	Germany	PAL	B,G
ES	E	South Africa, Ireland, Hong Kong	PAL	I
EV	E	South-East Asia	PAL	B,G
	U	Middle East, South-East Asia		
	Y1	New Zealand		
	Y7	Saudi Arabia		
EZ	S	New Zealand	PAL	B,G
EGN	E	Middle East	PAL,NTSC	B,G
	Y7	Saudi Arabia		
S	E	France	SECAM	L
SK	E	Latin America, Oceania, SECAM-OIRT	SECAM	K,K1
SEG	E	France, Switzerland	SECAM, PAL	L,B,G
U	A	U.S.A	NTSC	M
	C	Canada		
UM	U	Latin America	NTSC	M
J	J	Japan	NTSC	M

### SAFETY LOCK SYSTEM

The play button on the VCR and remote control can be locked to prevent access by young children (this feature does not effect other functions of the VCR).

This feature can only be operated by the remote control.

**To lock** : Press and hold the remote control's stop button for approx. 8 seconds. As long as the play button is locked, safety lock indicator "L" will light on the FL display and "L" will flash on the TV screen any time the play button is pressed.

**To unlock** : Press and hold the remote control's play button for approx. 8 seconds. If a tape is loaded, the safety lock indicator will disappear from the FL display and TV screen, and play back will begin automatically.

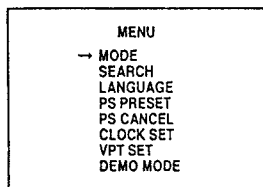
### MULTI-FUNCTION MENU MODE

This is an on-screen display of the various modes you can programme via the TV screen.

- MODE** : To select the AV MUTE and the tape length for remain feature when an extra long play tape is being used.
- SEARCH** : To select the BLANK SEARCH and INTRO SCAN modes.
- LANGUAGE** : To select a language for the on-screen displays.
- PS PRESET** : To preset TV stations.
- PS CANCEL** : To cancel preset TV stations.
- CLOCK SET** : To set the clock.
- VPT SET** : To select the station name and VPT PAGE modes
- DEMO MODE** : To demonstrate some of the modes available on this VCR.

If necessary, refer to the respective sections in the operator's manual for detailed information.

1. Press the "MENU" button on the remote control unit. The menu list screen will be displayed on the TV screen. The arrow indicator is automatically set to the "MODE" position.



2. Select the desired mode by setting the arrow indicator to the appropriate position with cursor "∨" button. The arrow indicator moves downwards each time the button is pressed. Pressing the cursor "∧" button will move the arrow indicator upwards.

3. Press the "OK" button. The selected function screen will be displayed on the TV screen.

\* Press the "MENU" button again to return to the normal screen.

## MANUAL TRACKING/PICTURE/STABILITY ADJUSTMENT

The VCR can be adjusted for tracking and picture sharpness anytime it is in the playback mode with the remote control unit.

### • Manual tracking control

Press the "<" or ">" cursor button repeatedly until the picture is clear. During manual tracking adjustment, the tracking position is shown on the TV screen, this will disappear automatically after adjustment has been completed. Use this function when performing the A/C HEAD phase adjustment.

### • Picture sharpness control

Press the "∧" button repeatedly to sharpen the picture or press the "∨" button to soften the picture.

### • Stability adjustment

- 1) To correct picture shake during the slow motion or still mode:  
Press "∧" or "∨" cursor button until the picture shake is corrected.
- 2) To correct tracking during the still mode:  
Press the "<" or ">" cursor button repeatedly until the picture is clear.

### • TEST MODE

To set the VCR to the TEST MODE, press and hold both the "POWER" and "EJECT" buttons on the front panel, then plug in the AC power cord.

The TEST MODE can be cancelled by disconnecting the AC power cord or simply by pressing the "SYSTEM RESET" button.

#### 1) MEMORIZATION OF THE REFERENCE RF ENVELOPE DETECT VOLTAGE

For the purpose of correct operation of the I.HQ tape tuning system, memorization of the reference RF envelope detect voltage is absolutely necessary.

When the VIDEO HEAD DRUM, PRE AMP PCB or EEP ROM in the OPERATION PCB is replaced for any reason, memorize the reference RF envelope detect voltage according to the following procedure.

1. Set the tape speed to "SP mode".
2. Make a recording on the TEST TAPE "TF-556AT" (AT-751822J) and rewind it to the exact point where the recording was started.
3. Set the VCR to the "TEST MODE" then start playback.
4. Reference RF envelope detect voltage data in the memory is displayed in the left 2 digits of the time display part of the FL display and present envelope detect voltage data is displayed in the right 2 digits of the time display part (the data is displayed in hexadecimal numbers).
5. After the auto tracking is activated, press the "CANCEL" button on the remote control unit. So, present RF envelope detect voltage data will be transferred to the left 2 digits and memorized in the EEP ROM IC.
6. Cancel the "TEST MODE" then set the tape speed to "LP mode" and repeat the steps 2 to 5.

#### 2) TRACKING POSITION DISPLAY

In the SP play mode, tracking position data can be displayed on the FL display. Data is displayed in 64 steps (in hexadecimal numbers from "00" to "3F") in the tape counter minute segments on the FL display. Pressing the "TV/VCR" button sets tracking to the maximum "3F" tracking position directly during playback and pressing the "COUNTER RESET" button sets it to the minimum "00" position.

Pressing the PLAY button during playback sets tracking to the center position automatically.

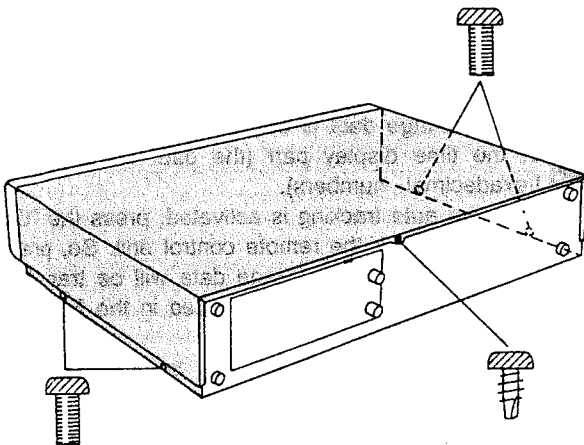
#### 3) SUSPENSION OF THE TAPE PROTECTION SYSTEM

When the VCR is not in the TEST MODE, the REC PAUSE mode will be released after 30 minutes in order to protect the tape. The "STILL" mode will also be released after 5 minutes. During the TEST MODE however, the tape protection system will not operate.

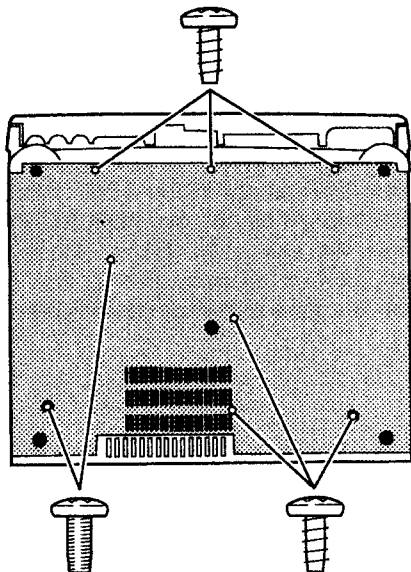
# I. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order. When reattaching the FRONT PANEL, hold the cassette loading slot door in the upright (open) position.

## 1. Removal of the UPPER COVER

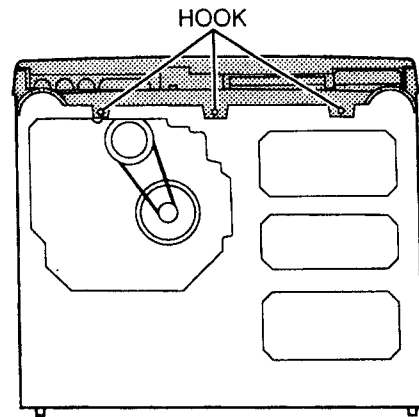


## 2. Removal of the BOTTOM COVER

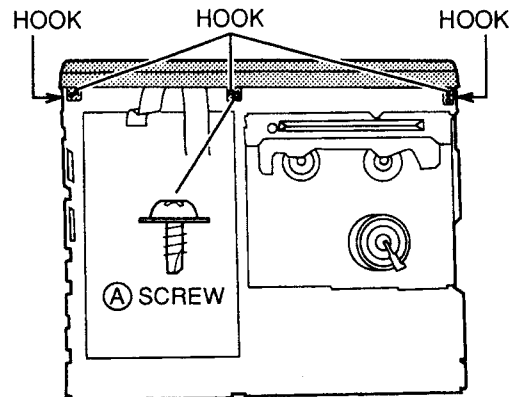


## 3. Removal of the FRONT PANEL BLOCK

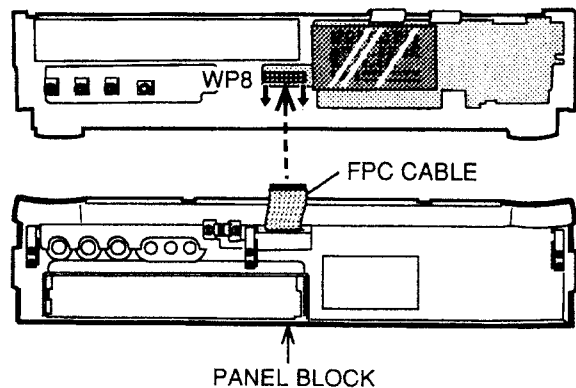
1) Release the three hooks on the bottom.



2) Remove the (A) screw then release the three hooks on the top and two hooks on both side.

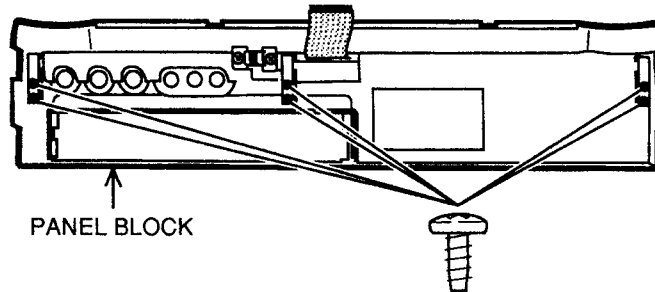


3) Unlock the stopper of the WP8 connector on the OPERATION (1) PCB and disconnect the FPC cable then remove the PANEL BLOCK.

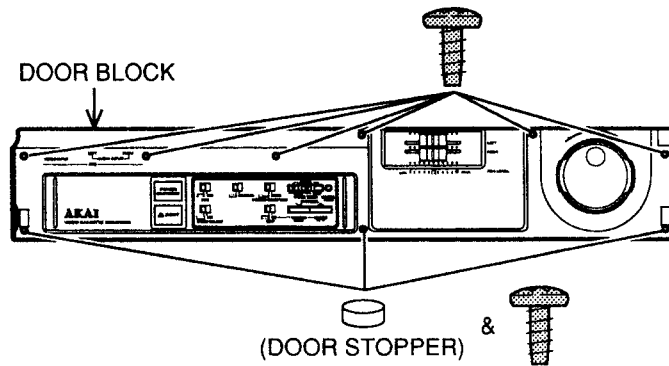


#### 4. DISASSEMBLY OF THE DOOR BLOCK

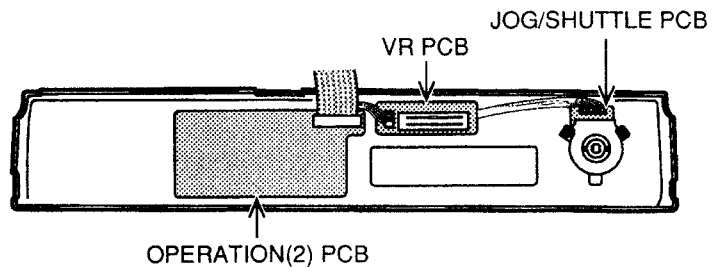
- 1) Remove the DOOR ANGLE retaining screws then remove the DOOR BLOCK.



- 2) Remove the JOG/SHUTTLE and REC LEVEL knobs by pulling them up carefully.  
Remove the three door stoppers (rubber cushion) and then remove the nine screws.



- 3) Disassemble the DOOR BLOCK according to your necessity.  
Reassemble in the reverse order to assemble the DOOR BLOCK.



## II. PRINCIPAL PARTS LOCATION

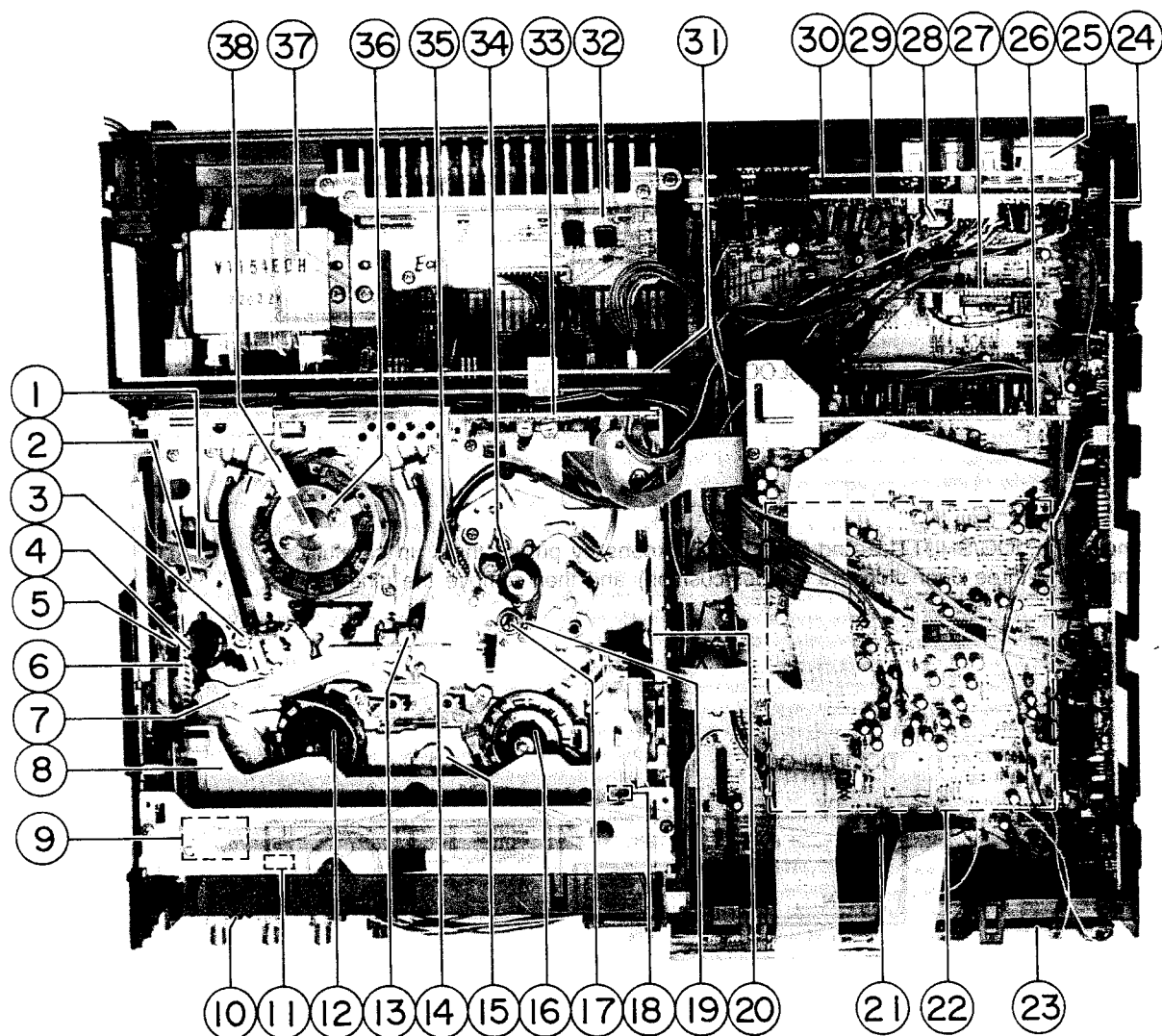


Fig. 2-1 Top view

- |                                |                                               |
|--------------------------------|-----------------------------------------------|
| 1. FULL TRACK ERASE HEAD       | 22. CANAL PLUS (A) PCB (EOG-VD only)          |
| 2. SUPPLY TAPE GUIDE           | VPST/PDC PCB (EK-VN, EOG-VD only. EOH:option) |
| 3. SUPPLY LOADING LEADER       | 23. OPERATION (1) PCB                         |
| 4. FRONT LOADING GEAR          | 24. VIDEO PCB                                 |
| 5. SENSOR (S) PCB (END SENSOR) | 25. RF CONVERTOR                              |
| 6. FRONT LOADING SLIDER        | 26. D MULTI PCB (EOG-VD, EOH-D only)          |
| 7. TENSION ARM                 | NICAM PCB (EK-VN,EOH-N only)                  |
| 8. CASSETTE LOAD BLK           | NICAM PCB & DN-MULTI PCB (EOH-DN only)        |
| 9. LOADING MOTOR               | 27. VIF UNIT                                  |
| 10. FRONT PCB                  | 28. TV TUNER UNIT                             |
| 11. REC SAFETY SWITCH          | 29. IN-OUT (B) PCB (except EOG-VD)            |
| 12. SUPPLY REEL TABLE          | 30. IN-OUT (A) PCB (except EOG-VD)            |
| 13. TAKE UP LOADING LEADER     | CANAL PLUS (B) PCB (EOG-VD only)              |
| 14. SENSOR LED                 | 31. POWER SUPPLY (1) PCB                      |
| 15. IDLER (2) PART             | 32. POWER SUPPLY (2) PCB                      |
| 16. TAKE UP REEL TABLE         | 33. PRE AMP PCB                               |
| 17. CAPSTAN MOTOR              | 34. PINCH ROLLER                              |
| 18. S-VHS TAPE DETECT SWITCH   | 35. AUDIO/CONTROL/S.ERASE HEAD                |
| 19. REVIEW ARM                 | 36. UPPER DRUM BLK                            |
| 20. SENSOR (T) (START SENSOR)  | 37. POWER TRANSFORMER                         |
| 21. MAIN PCB                   | 38. EARTH BRUSH                               |





Fig. 2-2 Bottom view

- 1. CAPSTAN MOTOR BLOCK
- 2. SENSOR PCB
- 3. CAPSTAN BELT
- 4. CLUTCH DISK PART
- 5. LOADING MOTOR
- 6. LOADING DRIVE BLOCK

- 7. CAM SLIDER GEAR
- 8. MODE SELECT SWITCH
- 9. FRONT LOADING GEAR
- 10. TOGGLE (S) GEAR BLOCK
- 11. TOGGLE (T) GEAR BLOCK
- 12. DRUM MOTOR BLOCK

# III. MAIN COMPONENTS REPLACEMENT

## 3-1. REMOVAL OF THE EJECTOR BLOCK

Set the loading mechanism to the "EJECT" position by pressing the EJECT button. Then disconnect the AC power plug from the AC socket before proceeding.

### 3-1-1. Removal of the CASSETTE LOAD BLK

- 1) Remove the two (A) screws on the UPPER PLATE, as shown in Fig. 3-1 then remove the UPPER PLATE.
- 2) Lift up the FRONT GUIDE while pushing the CASSETTE LOAD BLK backwards, then remove the FRONT GUIDE.
- 3) Gently lift up the front side of the CASSETTE LOAD BLK, then remove it. To avoid damaging the pins of the CASSETTE LOAD BLK and the groove of the MECHA.FRAME, do not use excessive force when removing the CASSETTE LOAD BLK.

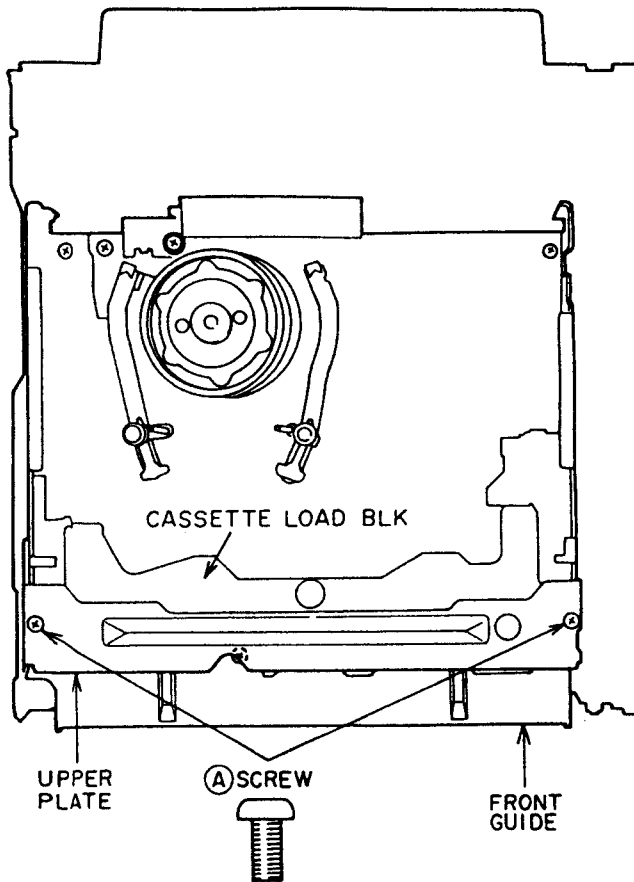


Fig. 3-1

### 3-1-2. Removal of the LOADING ARM BLK

- 1) Release the stopper on the right side end of the LOADING ARM BLK's shaft (Refer to Fig. 3-2) by pressing the stopper tab with a flat head (→) screwdriver. Then remove the shaft's right end from the bracket.

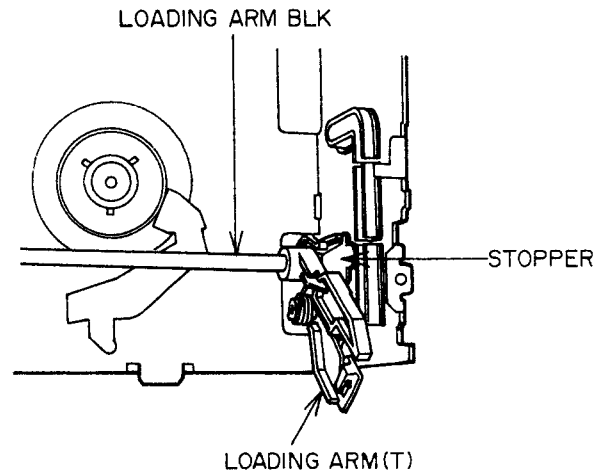


Fig. 3-2

- 2) Hold the LOADING ARM (T) and turn it 30 degrees clockwise, then pull out the shaft's left end from the bracket. Take special care when removing it to avoid damaging the JOINT and EJECT GEARS. (Refer Fig. 3-3)

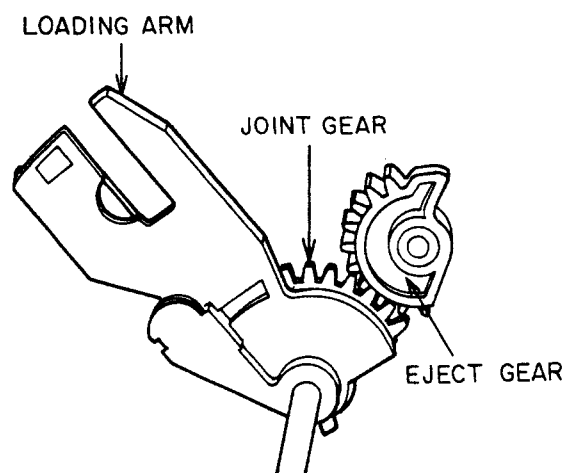


Fig. 3-3

## 3-2. REMOVAL OF THE SENSOR PC BOARD

\* Before proceeding with removal of the SENSOR PCB, the loading mechanism must be set to the "unloaded" position (the position where the CAM SLIDER GEAR's groove mark is visible through the hole of the MODE SELECT SW.) as shown in Fig. 3-4.

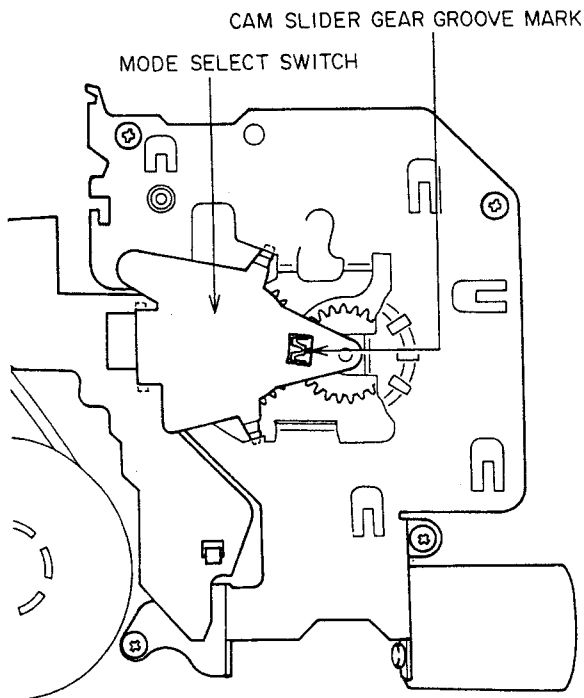


Fig. 3-4

To set the loading mechanism to the "unloaded" position, proceed with one of the following procedures.

- 1) Insert a video cassette tape which you no longer need. Once the tape has been loaded or has entered the "play" mode, press the POWER button to turn the power off. Disconnect the AC power plug from the AC socket after the cassette tape has been unloaded.
- 2) Remove the UPPER PLATE, FRONT GUIDE and CASSETTE LOAD BLK. (Refer to 3-1-1. Removal of the CASSETTE LOAD BLK.)

Plug in the AC power cord. The LOADING ARM BLK will move backward and forward continuously. With your fingers, cover and hold both the SENSOR (S) and SENSOR (T) at the same time when the LOADING ARM BLK is in the backward position. The unit will enter the "play" mode without a cassette tape. Then release your fingers from both the sensors at the same time. After about 10 seconds (when the PINCH ROLLER is disengaged from the CAPSTAN and the SUPPLY REEL stops rotating, and the mechanism is set to "standby"), press the POWER button on the remote control unit.

The mechanism will now be set to the "tape unloaded" position.

Disconnect the AC power plug from the AC power socket.

### 3-2-1. Removal of the MODE SELECT SWITCH

- 1) Release the two (A) stoppers as shown in Fig. 3-5.

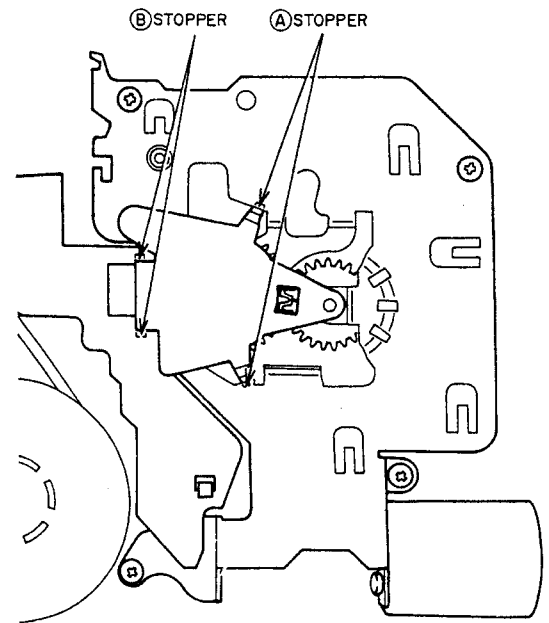


Fig. 3-5

- 2) Release the two (B) stoppers carefully while pulling up the MODE SELECT SWITCH. Then remove the MODE SELECT SWITCH. (Do not damage the pins of the MODE SELECT SWITCH or the P1 connector on the SENSOR PCB).

### 3-2-2. Removal of the SENSOR PC Board

- 1) Disconnect the connector P403 on the MAIN PCB.
- 2) Remove the capstan belt.
- 3) Release the (A), (B) and (C) stoppers as shown in Fig. 3-6. Then remove the SENSOR PCB.

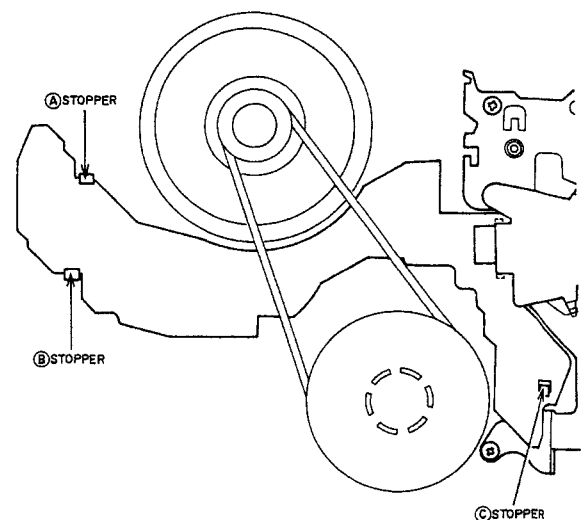


Fig. 3-6

### 3-3.REMOVAL OF THE LOADING DRIVE BLK

Set the loading mechanism to the "unloaded" position as well as 3-2 (REMOVAL OF THE SENSOR PC BOARD). However, this time, to avoid damaging the tape and mechanical parts, refer to 3-2, \* 2) only.

- 1) Remove the MODE SELECT SWITCH (refer to 3-2-1 Removal of the MODE SELECT SWITCH).
- 2) Unhook the five wires from each tab. Two wires from the SENSOR (S), two wires from the LOADING MOTOR and one wire from the REC SAFETY SWITCH.
- 3) Remove the (A), (B), (C) and (D) screws, then remove the LOADING DRIVE BLK as shown in Fig. 3-7.

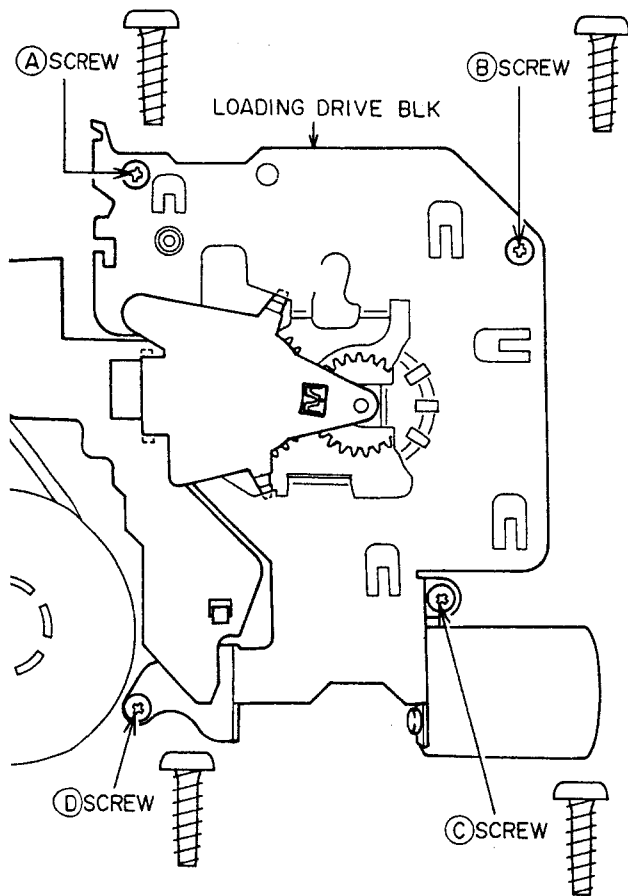


Fig. 3-7

### 3-4.REASSEMBLY OF THE LOADING MECHANISM BLK

#### 3-4-1. Position of the TOGGLE GEARS (T) and (S)

- 1) Set the TOGGLE GEARS (T) and (S) to the unloaded position with your fingers. Align the (A) mark on TOGGLE GEAR (S) with the (A) hole of TOGGLE GEAR (T) as shown in Fig. 3-8.

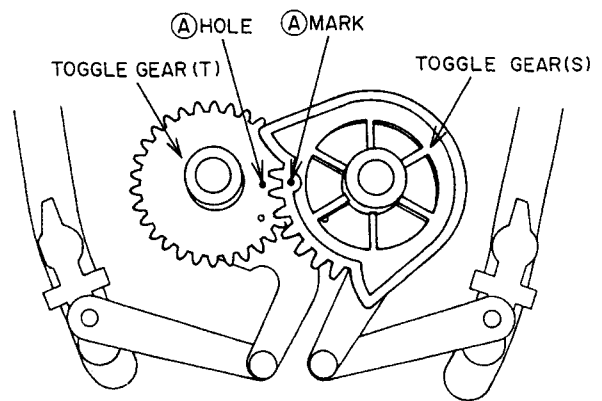


Fig. 3-8

#### 3-4-2. Installation of the CAM SLIDER GEAR & FRONT LOADING GEAR

- 1) Attach the WORM WHEEL GEAR as shown in Fig. 3-9.

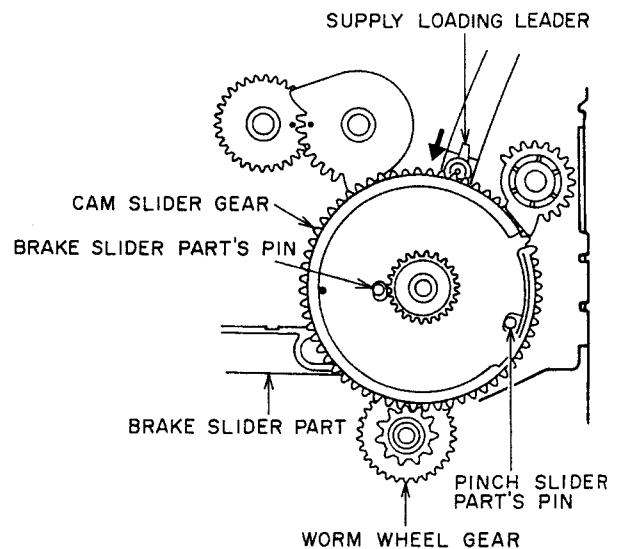


Fig. 3-9

- 2) Set the CAM SLIDER GEAR and adjust the position of the BRAKE SLIDER PART and PINCH SLIDER PART so that both pins appear through the holes on the CAM SLIDER GEAR as shown in Fig. 3-9. When inserting the CAM SLIDER GEAR onto its shaft, press the SUPPLY LOADING LEADER slightly in the direction of the arrow to make installation easy.

3) Attach the FRONT LOADING GEAR as shown in Fig. 3-10 and align the ⓑ mark on the FRONT LOADING GEAR with the ⓑ hole of the FRONT LOADING SLIDER as shown in Fig. 3-11.

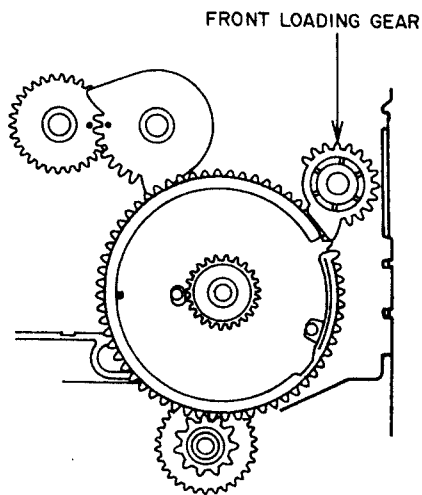


Fig. 3-10

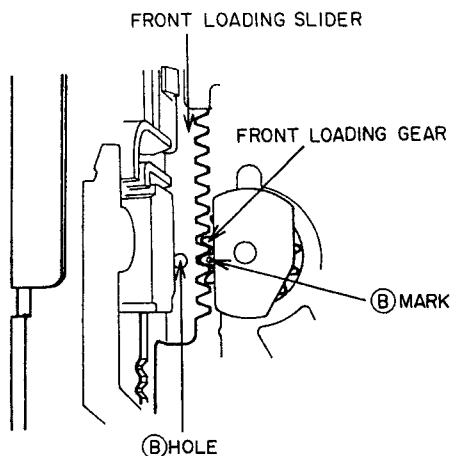


Fig. 3-11

### 3-4-3. Confirmation of the position of the EJECT GEAR

1) Confirm that the EJECT GEAR is in the correct position as shown in Fig. 3-12.

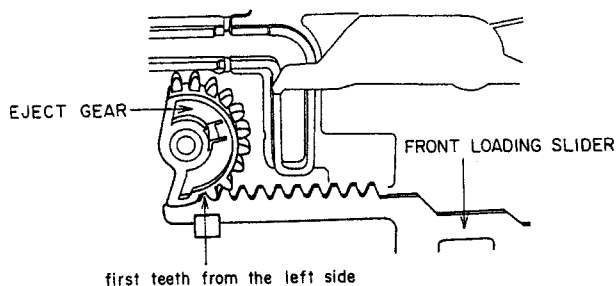


Fig. 3-12

2) Install the LOADING DRIVE BLK as shown in Fig. 3-13.

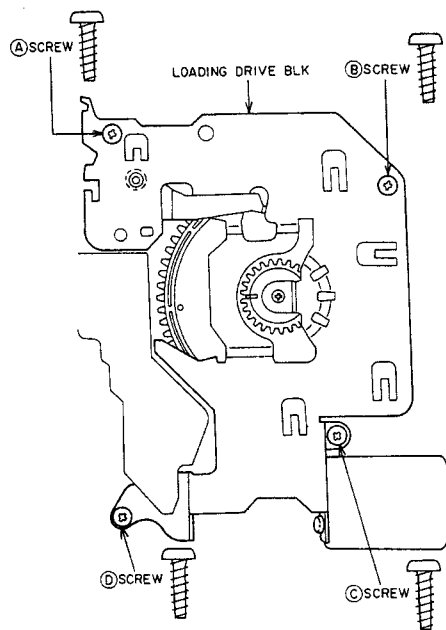


Fig. 3-13

### 3-4-4. Installation of the MODE SELECT SWITCH

1) Set the MODE SELECT SWITCH's gear, so that the Ⓒ mark is in the center of the Ⓒ hole as shown in Fig. 3-14.

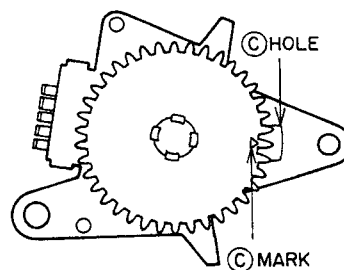


Fig. 3-14

2) Attach the MODE SELECT SWITCH to the LOADING DRIVE BLK and align the hollow of the gear's tooth (reverse side of the Ⓒ mark) with the Ⓒ groove of the CAM SLIDER GEAR as shown in Fig. 3-15.

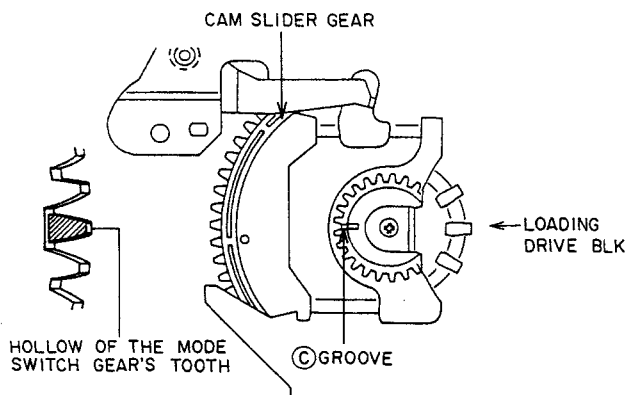


Fig. 3-15

### 3-4-5. Installation of the LOADING ARM BLK

- 1) While covering SENSOR (S) with your fingers, connect the AC power plug to the AC socket. The FRONT LOADING SLIDER will reach the "EJECT" position. Then disconnect the AC power plug from the AC socket before you release your fingers from SENSOR (S).
- 2) Install the LOADING ARM BLK in the reverse order of 3-1-2 (Removal of the LOADING ARM BLK). Position the EJECT GEAR and the JOINT GEAR as shown in Fig. 3-16.

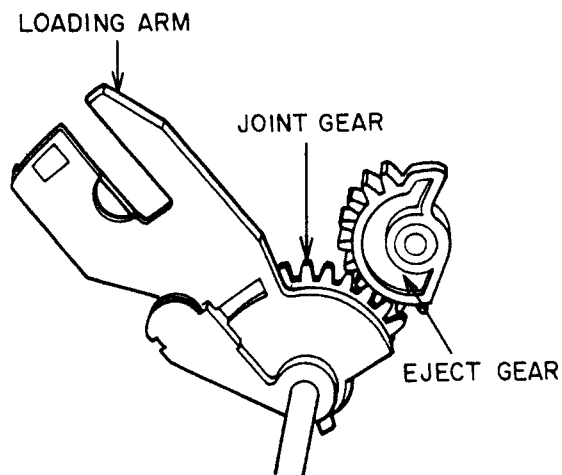


Fig. 3-16

### 3-4-6. Installation of the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE

- 1) Attach the CASSETTE LOAD BLK, FRONT GUIDE and UPPER PLATE in the reverse order of 3-1-1 (Removal of the CASSETTE LOAD BLK).
- 2) Insert a video cassette tape and confirm that the loading mechanism operates properly.

### 3-5.REPLACEMENT OF THE PINCH ROLLER PART

- 1) Remove the (A) screw, then remove the PINCH ROLLER part, as shown in fig. 3-17
- 2) Set the pinch roller so that white plastic spacer side faces chassis when replacing. Then tighten the (A) screw.

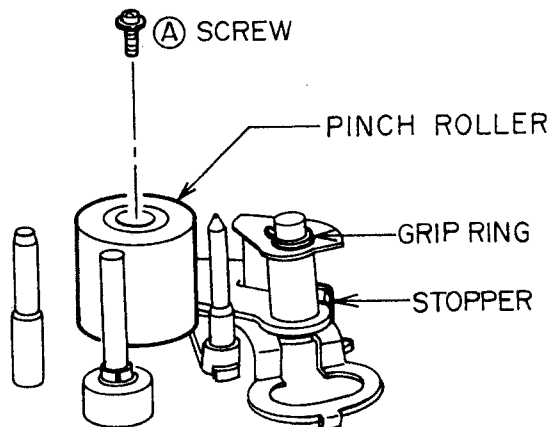


Fig. 3-17

### 3-6.REPLACEMENT OF THE IDLER PART (2) AND REVIEW BRAKE PART

- 1) Remove the CASSETTE LOAD BLOCK & LOADING ARM BLK. (refer to 3-1, REMOVAL OF THE EJECTOR BLOCK).
- 2) Release the stopper of IDLER PART (2) as shown in Fig. 3-18, then remove it.

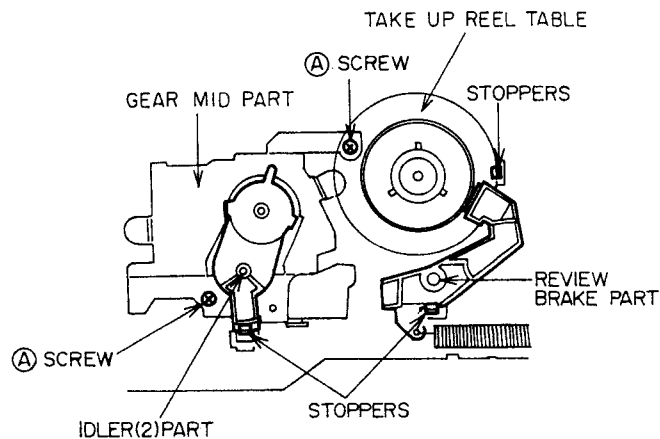


Fig. 3-18

- 3) Take off the review brake part spring, then release the stopper of the REVIEW BRAKE PART and remove it.
- 4) Reassemble the parts in the reverse order of steps 1) to 3).

### 3-7.REPLACEMENT OF THE GEAR MID PART

- 1) Remove the IDLER (2) PART and REVIEW BRAKE PART with referring to the step 3-6
- 2) Release the stopper of the TAKE UP REEL TABLE as shown in Fig.3-18, then remove it.
- 3) Remove the two (A) screws then replace the GEAR MID PART as shown in Fig.3-18
- 4) Reassemble the parts in the reverse order.

### 3-8. REPLACEMENT OF THE UPPER DRUM

#### 3-8-1. Removal of the UPPER DRUM

- 1) Remove the EARTH BRUSH retaining screw and remove the EARTH BRUSH.
- 2) Unsolder the 14 relay leads pointed by arrows shown in Fig.3-19.
- 3) Gently lift and remove the UPPER DRUM.

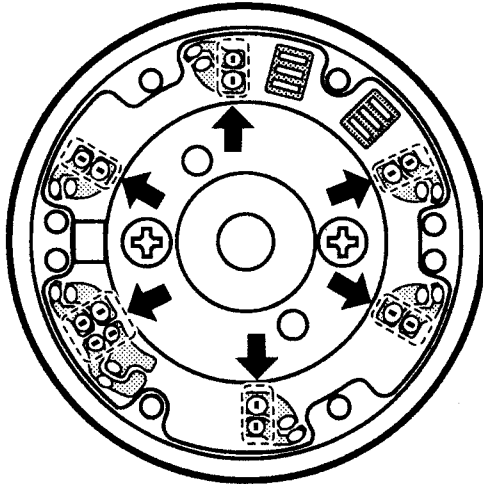


Fig. 3-19

#### 3-8-2. Installation of the UPPER DRUM

- 1) Attach the UPPER DRUM to the LOWER DRUM ROTOR, so that the UPPER DRUM's white mark and LOWER DRUM ROTOR's white mark line up as shown in Fig.3-20.

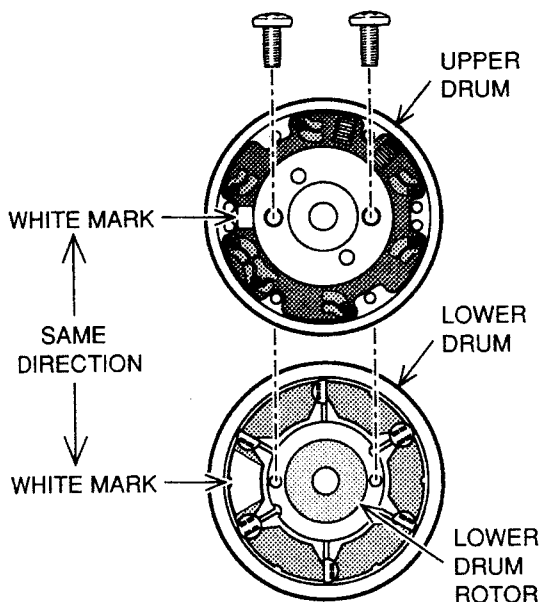


Fig. 3-20

NOTE: Because height precision is required for proper performance, and because head tips are fragile, the following points should be noted when replacing the UPPER DRUM BLOCK.

- (a) Do not loosen the set screw on the collar preload.
- (b) Before fixing, use alcohol to clean both surfaces where the upper drum and the rotary transformer meet.
- (c) If the UPPER DRUM can not be inserted on to the shaft easily during installation, clean the hole in the UPPER DRUM with alcohol and put a little oil on the shaft.
- (d) Make sure that the upper drum fixing screw holes, on the rotary transformer part, and the upper drum fixing screw penetration holes match exactly before inserting the fixing screws.
- (e) Tighten the two upper drum fixing screws alternately and gradually.

#### 3-8-3. After replacement

After replacement, the following adjustments are necessary for the proper performance.

- 1) Control head phase adjustment (IV. MECHANICAL ADJUSTMENT 4-3-3.)
- 2) PB switching point adjustment (V. ELECTRICAL ADJUSTMENT step 1)
- 3) Video head REC current adjustment (V. ELECTRICAL ADJUSTMENT step 5)
- 4) Hi-Fi head REC current adjustment (V. ELECTRICAL ADJUSTMENT step 13)
- 5) Reference RF envelope detect voltage preset (Refer to "TEST MODE", step 1)

### 3-9. DRUM MOTOR PC BOARD REPLACEMENT

- 1) Remove the two (A) screws on the ROTARY PLATE and then remove it. Then disconnect the connector on the DRUM MOTOR PCB as shown.

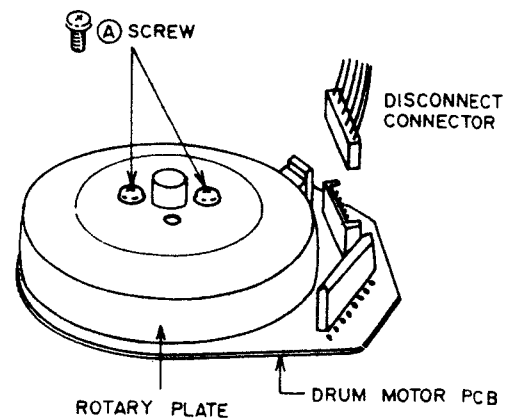


Fig. 3-21

- 2) Remove the three (B) screws which retain the DRUM MOTOR PCB and replace it.

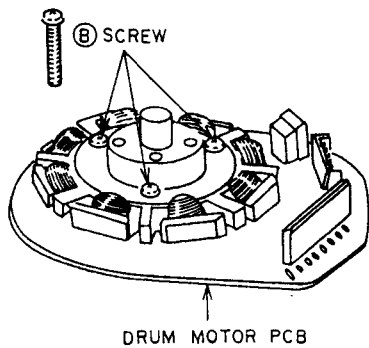


Fig. 3-22

- 3) Attach the ROTARY PLATE to the collar preload so that the rotary plate (C) hole and collar preload (D) hole line up.

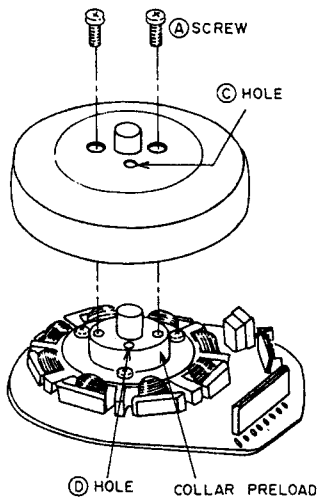


Fig. 3-23

### 3-10. REMOVAL OF THE MECHANISM BLOCK

#### 3-10-1. Removal of the PRE AMP PC Board

- 1) Remove the (A) screw and remove the EARTH BRUSH as shown in Fig. 3-24.

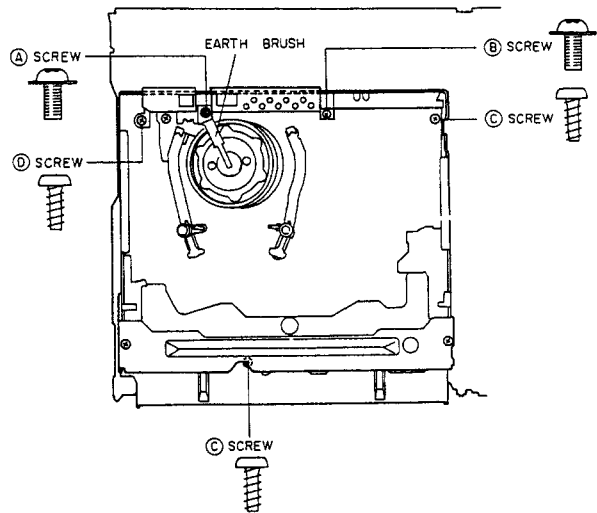


Fig. 3-24

- 2) Remove the (B) and (D) screws then pull up the PRE AMP PCB.

#### 3-10-2. Removal of the MECHANISM BLK (MECHA. FRAME)

- 1) Disconnect the P401, P402, P403 connectors on the MAIN PCB and P1 on the A/C HEAD PCB.
- 2) Disconnect the connector on the FULL TRACK ERASE HEAD.
- 3) Remove the two (C) screws from the MECHA. FRAME as shown in Fig. 3-24.
- 4) Hold the rear side of the MECHA. FRAME then remove it by pulling it up backwards.
- 5) Reassemble in the reverse order for installation.



# IV. MECHANICAL ADJUSTMENT

## 4-1. BACK TENSION ADJUSTMENT

- 1) Prepare a video cassette tape which you no longer needed. Remove both tape reels and the tape protection cover from the cassette tape. Then cover the video cassette's left and right side detection holes with black adhesive tape.
- 2) Play back the tapeless cassette which you prepared.
- 3) Confirm the distance between (A) groove on the TENSION ARM and the (A) mark on the MECHA. CHASSIS so that the distance should be within the value shown in Fig. 4-1
- 4) If the result is not satisfactory, eject the tape and adjust the TENSION ADJUST repeatedly until the result is satisfactory.

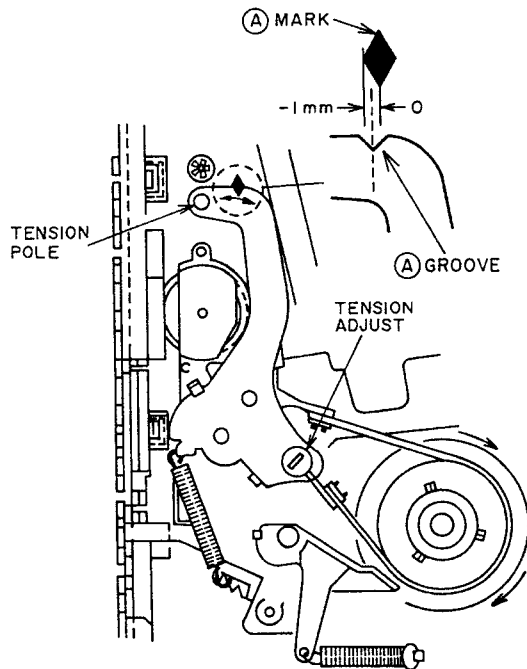


Fig. 4-1

## 4-2. TAPE TRANSPORT ADJUSTMENTS

NOTE: The following adjustments are required only when an irregularity is found, since these adjustment are precisely set at the factory.

### 4-2-1. Tape curl adjustment at the TAKE-UP TAPE GUIDE

- 1) Play back a recorded tape which is no longer needed.
- 2) Turn the (A) screw on the A/C HEAD BLK, until the edge of the tape barely touches the lower part of the TAKE UP TAPE GUIDE, without any curl or wrinkle.
- 3) Once the (A) screw is adjusted, A/C HEAD height and azimuth adjustment is required. (Refer to 4-3. A/C HEAD POSITION ADJUSTMENT.)

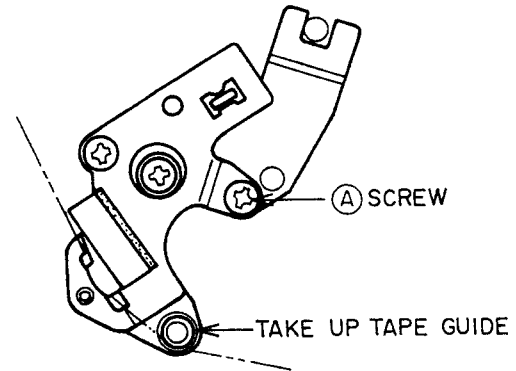


Fig. 4-2

(TAKE-UP TAPE GUIDE)

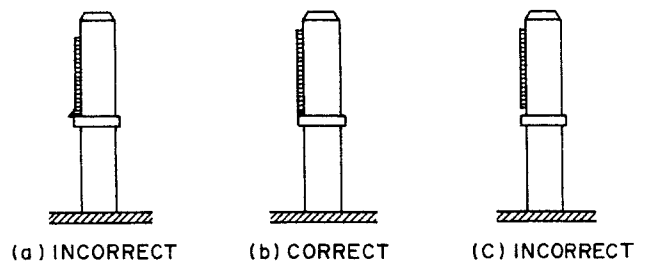


Fig. 4-3

### 4-2-2. Confirmation of tape curl on the SUPPLY TAPE GUIDE

Confirm that the edge of the tape barely touches the lower part of the SUPPLY TAPE GUIDE, without any curl or wrinkle as shown in Fig. 4-4.

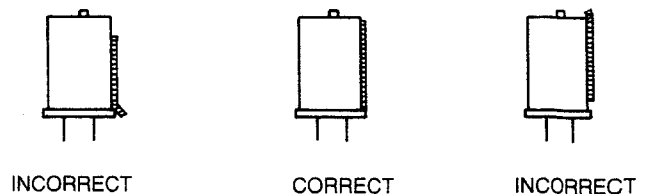


Fig. 4-4

### 4-2-3. REVIEW ARM height adjustment

- 1) Play back the beginning part of an E-240 tape and set the unit to the REVIEW mode by pressing the REW button. (Remove the tape protection cover to make the adjustment easier.)

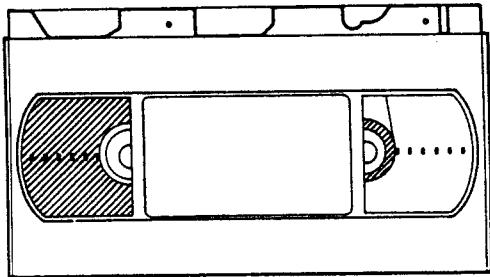


Fig. 4-5

- 2) Turn the REVIEW ARM height  $\text{\textcircled{A}}$  nut so that the edge of the tape barely touches the lower part of the TAKE-UP TAPE GUIDE, without any curl or wrinkle between the TAKE-UP TAPE GUIDE and the CAPSTAN SHAFT as shown in Fig. 4-6 to Fig. 4-8.

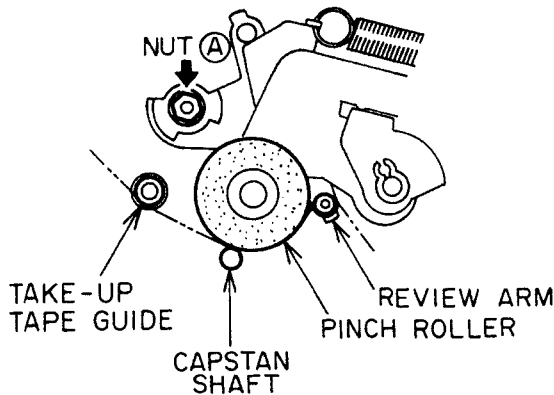


Fig. 4-6

(TAKE-UP TAPE GUIDE)

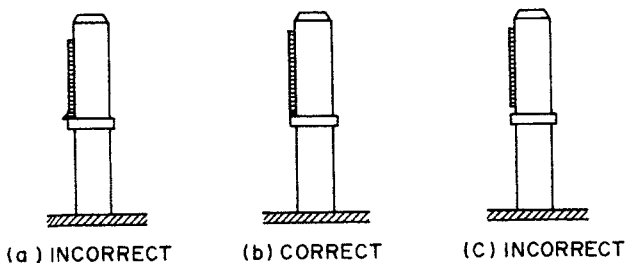


Fig. 4-7

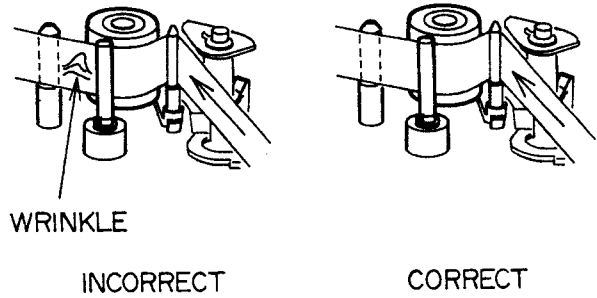


Fig. 4-8

- 3) Play back the beginning part of an E-240 tape and this time set the unit to the CUE mode by pressing the F.FWD button.
- 4) Confirm there is no curl or wrinkle near the REVIEW ARM's guide. If curl or wrinkle of the tape occurs, slightly turn the  $\text{\textcircled{A}}$  nut (Shown in Fig. 4-6) until it disappears.

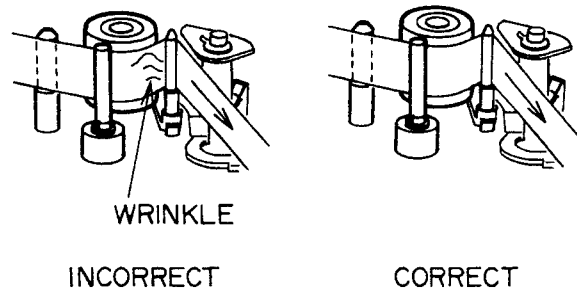


Fig. 4-9

- 5) Set the unit to the REVIEW mode again. Then confirm that there is no curl or wrinkle near the TAKE-UP TAPE GUIDE. (A small gap may appear after this adjustment, but this is allowable.)

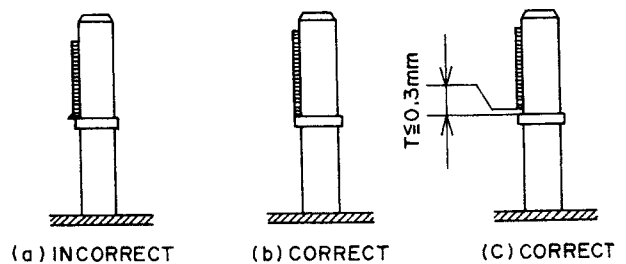


Fig. 4-10

#### NOTE:

1. If the results are not satisfactory, repeat steps 2) to 5).
2. Always play an undamaged tape to obtain satisfactory adjustment.
3. Because an E-240 tape can be damaged easily, due of its thinness, a pre-adjustment with an E-180 tape is recommended.

#### 4-2-4. LOADING LEADER height adjustments

- 1) Slightly loosen the set screw at the lower part of the LOADING LEADERS (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig. 4-11.)
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Connect an oscilloscope's CH-1 to TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 4) Turn the LOADING LEADER heads with a flat head (—) screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-12.
- 5) After adjustment is completed, tighten the loading leader set screws.

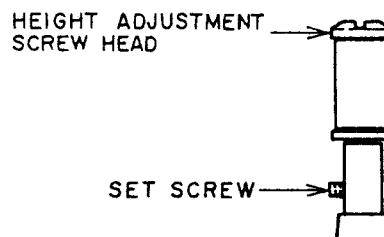


Fig. 4-11

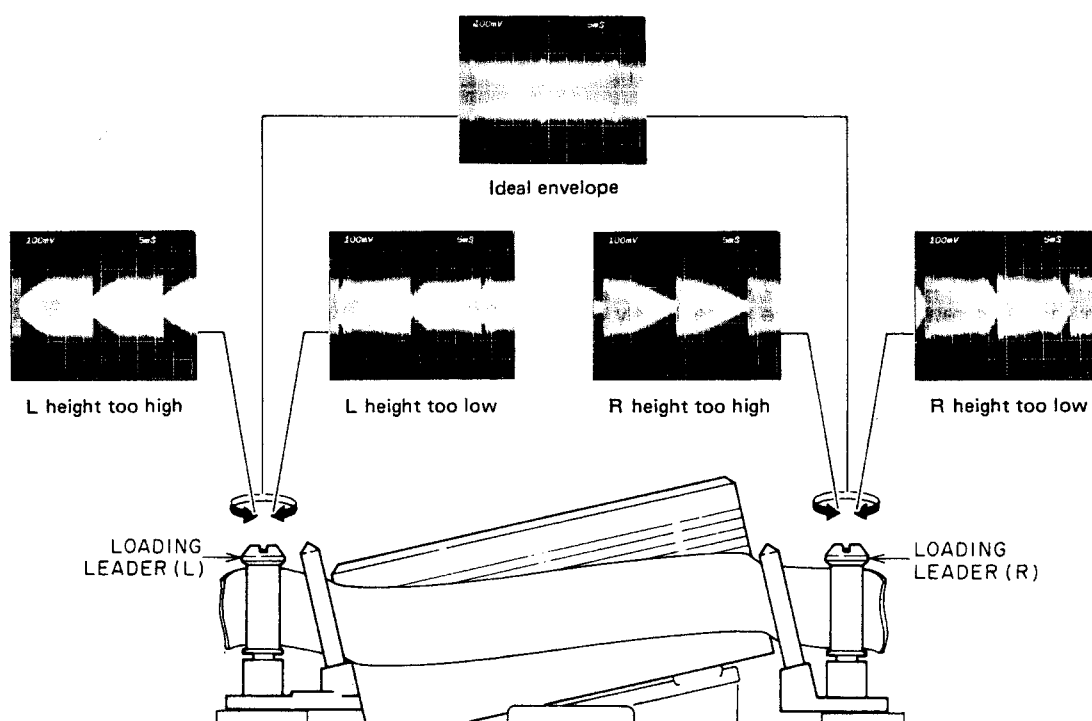


Fig. 4-12

#### 4-3. A/C HEAD POSITION ADJUSTMENT

##### 4-3-1. Azimuth adjustment

- 1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal (L CH or R CH) on the rear panel.
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Press the "AUDIO MONITOR" button on the remote control unit and choose the "LINEAR AUDIO" playback.
- 4) Adjust the ⓑ screw to obtain the maximum audio output.

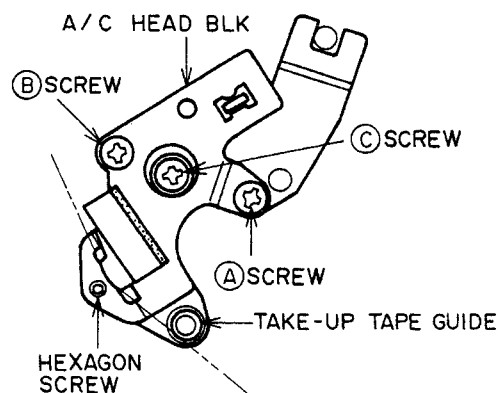


Fig. 4-13

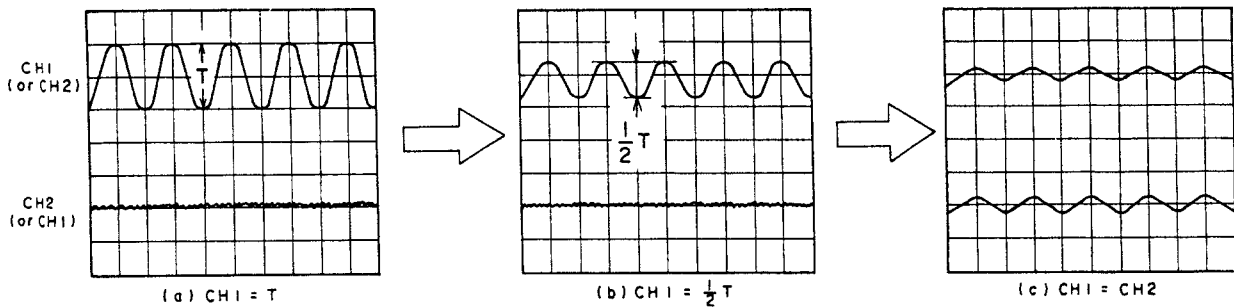


Fig. 4-14

### 4-3-2. Height adjustment

- 1) Play back the test tape TF-526HH (AT-751788).
- 2) Connect an oscilloscope's CH-1 to the AUDIO OUT (L) terminal on the rear panel and CH-2 to TP401 (CTL OUT) on the MAIN PCB.
- 3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2, whichever has an output signal as shown in Fig. 4-14.  
Then set both of the oscilloscope's channels to 100 mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.
- 4) Slightly turn the Ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 4-3.
- 5) Adjust the head azimuth again. (Turning the hexagon screw, or Ⓐ screw, will cause head azimuth mis-alignment. Refer to 4-3-1. Azimuth adjustment.)
- 6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (confirm that neither of the CH-1 or CH-2 output levels exceed 100 mVp-p). If the result is not satisfactory, repeat steps 3) to 5).

### 4-3-3. Phase adjustment

- 1) Connect an oscilloscope's CH-1 to the TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Press the "<" or ">" cursor button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-15.
- 4) Loosen the Ⓒ screw slightly so that the A/C HEAD PLATE can be moved with reasonable tightness.
- 5) Insert a sharp, flat head (—) screwdriver into the A/C HEAD BASE and Ⓐ hole as shown in Fig. 4-17.
- 6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig. 4-17 to obtain the maximum RF output, then tighten the Ⓒ screw.

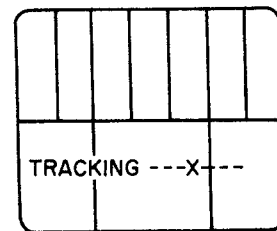


Fig. 4-15

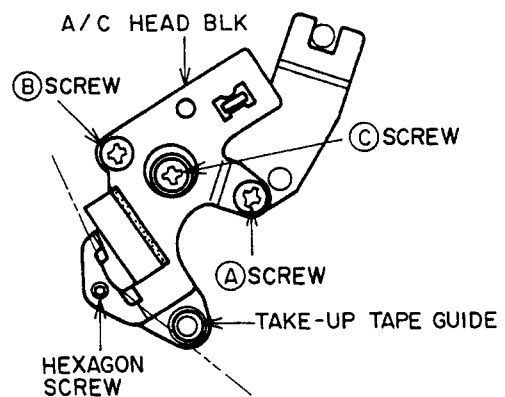


Fig. 4-16

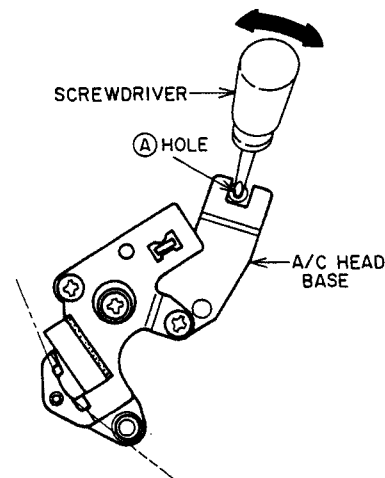


Fig. 4-17

- 1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal (L CH or R CH) on the rear panel.
- 2) Play back the reference tape TF-530RFS (AT-751775). Press the "AUDIO MONITOR" button on the remote control unit and choose the "LINEAR AUDIO" playback.
- 4) Adjust the ③ screw to obtain the maximum audio output.

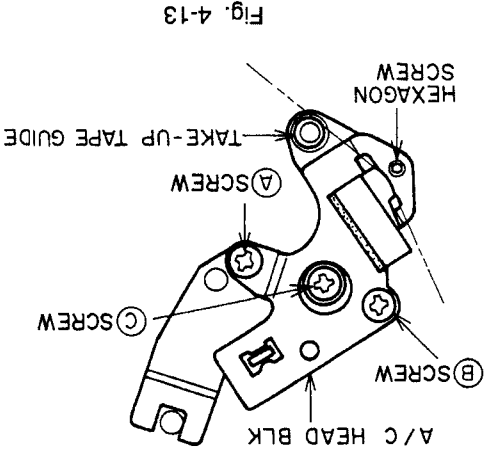


Fig. 4-13

**4-3-1. Azimuth adjustment**

**4-3-A/C HEAD POSITION ADJUSTMENT**

Fig. 4-12

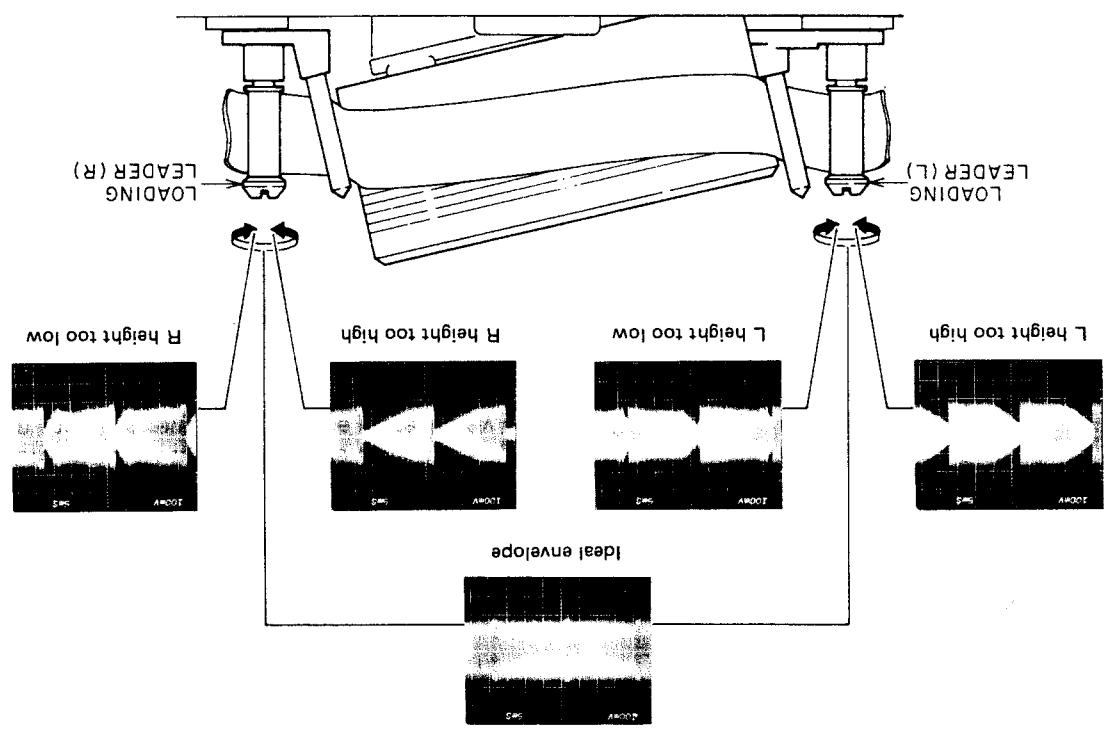
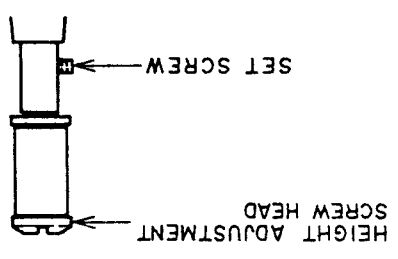


Fig. 4-11



- 1) Slightly loosen the set screw at the lower part of the LOADING LEADERS (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig. 4-11.)
- 2) Play back the reference tape TF-530RFS (AT-751775). Connect an oscilloscope's CH-1 to TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 4) Turn the LOADING LEADER heads with a flat head screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-12.
- 5) After adjustment is completed, tighten the loading leader set screws.

**4-2-4. LOADING LEADER height adjustments**

**4-3-2. Height adjustment**

- 1) Play back the test tape TF-526HH (AT-751788).
- 2) Connect an oscilloscope's CH-1 to the AUDIO OUT (L) terminal on the rear panel and CH-2 to TP401 (CTL OUT) on the MAIN PCB.

3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2, whichever has an output signal as shown in Fig. 4-14.

Then set both of the oscilloscope's channels to 100 mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.

4) Slightly turn the (A) screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 4-3.

5) Adjust the head azimuth again. (Turning the hexagon screw, or (A) screw, will cause head azimuth misalignment. Refer to 4-3-1. Azimuth adjustment.)

6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (confirm that neither of the CH-1 or CH-2 output levels exceed 100 mV-p-p). If the result is not satisfactory, repeat steps 3) to 5).

**4-3-3. Phase adjustment**

- 1) Connect an oscilloscope's CH-1 to the TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Press the "<" or ">" cursor button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-15.
- 4) Loosen the (C) screw slightly so that the A/C HEAD PLATE can be moved with reasonable tightness.
- 5) Insert a sharp, flat head (—) screwdriver into the A/C HEAD BASE and (A) hole as shown in Fig. 4-17.
- 6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig. 4-17 to obtain the maximum RF output, then tighten the (C) screw.

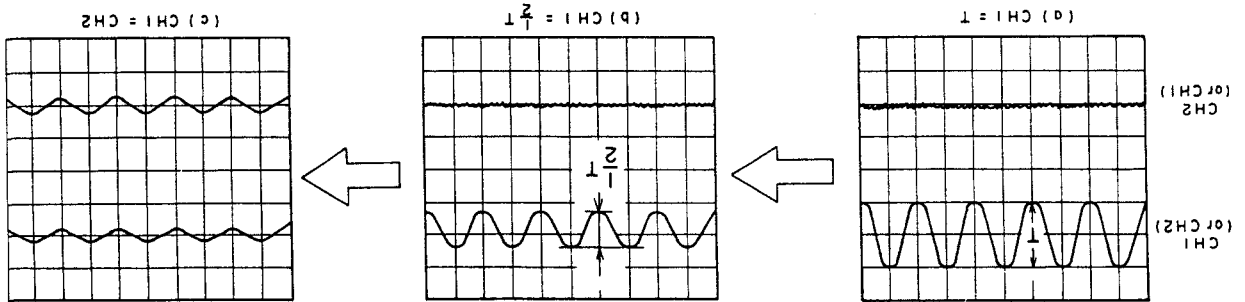


Fig. 4-14

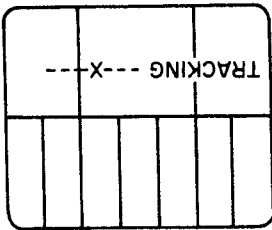


Fig. 4-15

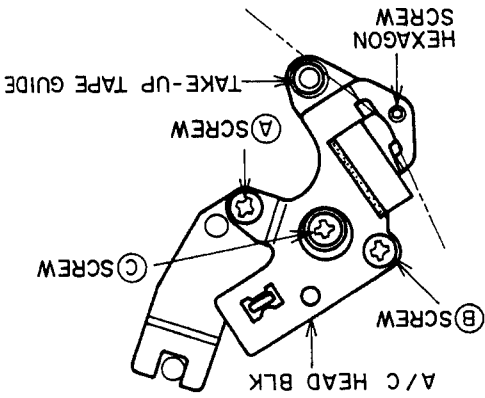


Fig. 4-16

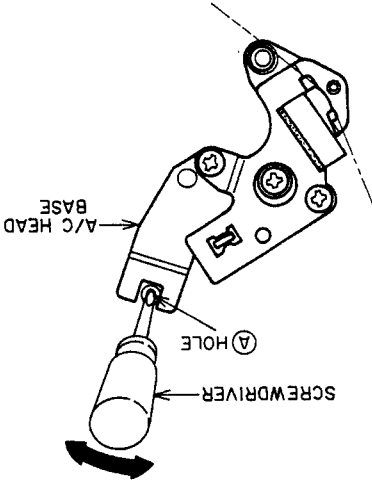


Fig. 4-17

- 1) Connect an AC voltmeter or an oscilloscope to the AUDIO OUT terminal (L CH or R CH) on the rear panel.
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Press the "AUDIO MONITOR" button on the remote control unit and choose the "LINEAR AUDIO" playback.
- 4) Adjust the ③ screw to obtain the maximum audio output.

### 4-3.1. Azimuth adjustment

## 4-3.A/C HEAD POSITION ADJUSTMENT

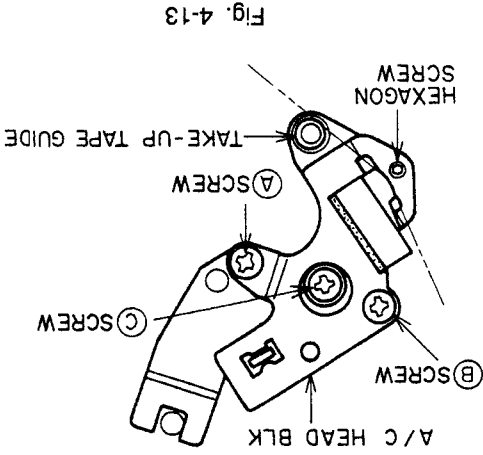
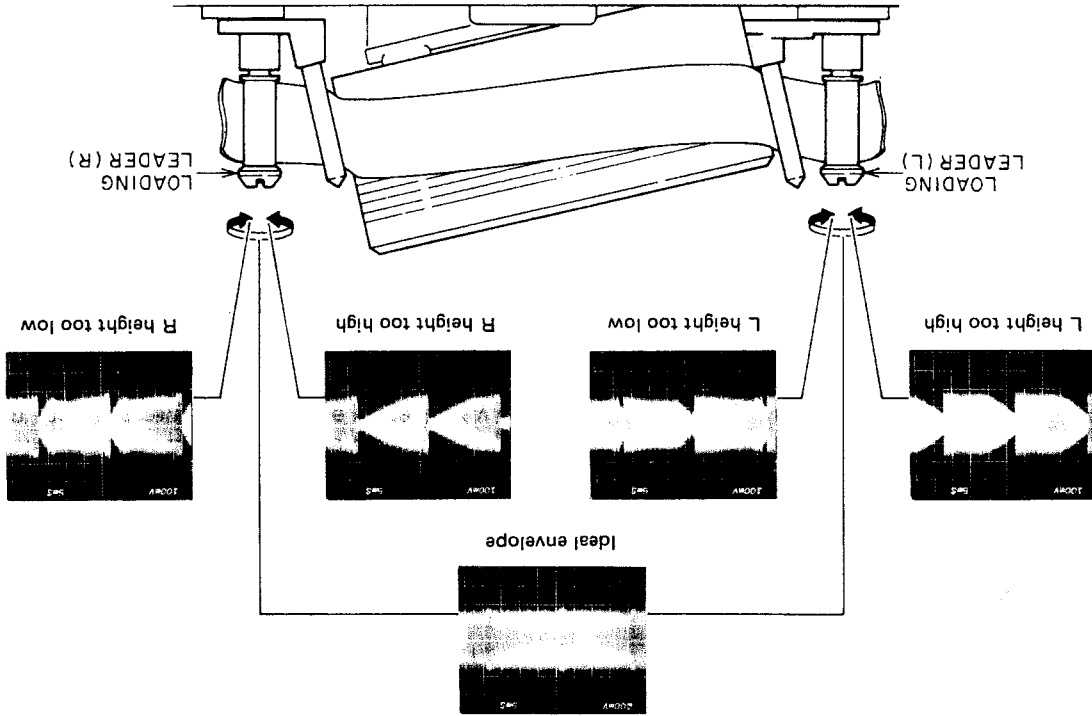


Fig. 4-13

Fig. 4-12



- 1) Slightly loosen the set screw at the lower part of the LOADING LEADERS (L), (R) so that the LOADING LEADER can be adjusted with reasonable tightness. (Refer to Fig. 4-11.)
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Connect an oscilloscope's CH-1 to TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 4) Turn the LOADING LEADER heads with a flat head screwdriver to obtain a flat RF envelope as the ideal envelope, as shown in Fig. 4-12.
- 5) After adjustment is completed, tighten the loading leader set screws.

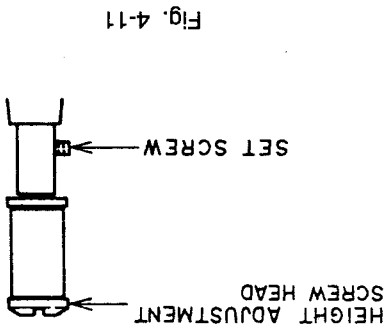


Fig. 4-11

### 4-2-4. LOADING LEADER height adjustments

- 1) Connect an oscilloscope's CH-1 to the TR803 emitter (ENVE) on the VIDEO PCB and CH-2 to TP2 (V-SWP) on the PRE AMP PCB for triggering.
- 2) Play back the reference tape TF-530RFS (AT-751775).
- 3) Press the "<" or ">" cursor button on the remote control until the "X" mark can be seen in the center position of the tracking range on the TV screen as shown in Fig. 4-15.
- 4) Loosen the ⓐ screw slightly so that the A/C HEAD PLATE can be moved with reasonable tightness.
- 5) Insert a sharp, flat head (Ⓜ) screwdriver into the A/C HEAD BASE and ⓐ hole as shown in Fig. 4-17.
- 6) Move the A/C HEAD BASE by moving a screwdriver in the direction of the arrow as shown in Fig. 4-17 to obtain the maximum RF output, then tighten the ⓐ screw.

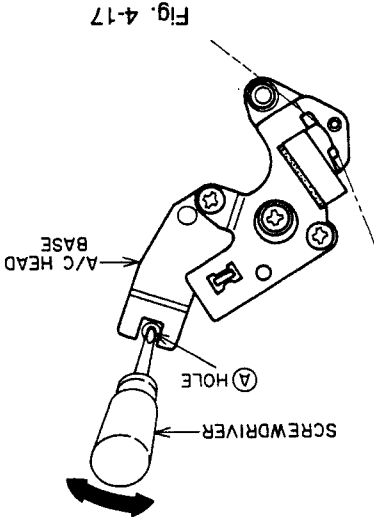


Fig. 4-17

- 1) Play back the test tape TF-526HH (AT-751788).
- 2) Connect an oscilloscope's CH-1 to the AUDIO OUT (L) terminal on the rear panel and CH-2 to TP401 (CTL OUT) on the MAIN PCB.
- 3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2, whichever has an output signal as shown in Fig. 4-14.
- Then set both of the oscilloscope's channels to 100 mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.
- 4) Slightly turn the ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 4-3.
- 5) Adjust the head azimuth again. (Turning the hexagon screw, or ⓐ screw, will cause head azimuth misalignment. Refer to 4-3-1. Azimuth adjustment.)
- 6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (confirm that neither of the CH-1 or CH-2 output levels exceed 100 mV-p-p). If the result is not satisfactory, repeat steps 3) to 5).

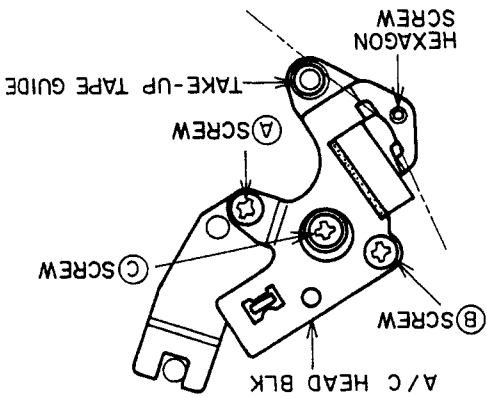
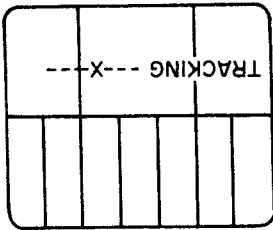


Fig. 4-15



**4-3-2. Height adjustment**

- 1) Play back the test tape TF-526HH (AT-751788).
- 2) Connect an oscilloscope's CH-1 to the AUDIO OUT (L) terminal on the rear panel and CH-2 to TP401 (CTL OUT) on the MAIN PCB.
- 3) Turn the hexagon screw to obtain 1/2 of the output level of either CH-1 or CH-2, whichever has an output signal as shown in Fig. 4-14.
- Then set both of the oscilloscope's channels to 100 mV/div and finely adjust the hexagon screw until both signals of CH-1 and CH-2 are nearly the same level.
- 4) Slightly turn the ⓐ screw until the tape edge barely touches the lower part of the TAKE-UP TAPE GUIDE without any curl or wrinkle as shown in Fig. 4-3.
- 5) Adjust the head azimuth again. (Turning the hexagon screw, or ⓐ screw, will cause head azimuth misalignment. Refer to 4-3-1. Azimuth adjustment.)
- 6) Confirm that both signals of CH-1 and CH-2 are nearly the same level (confirm that neither of the CH-1 or CH-2 output levels exceed 100 mV-p-p). If the result is not satisfactory, repeat steps 3) to 5).

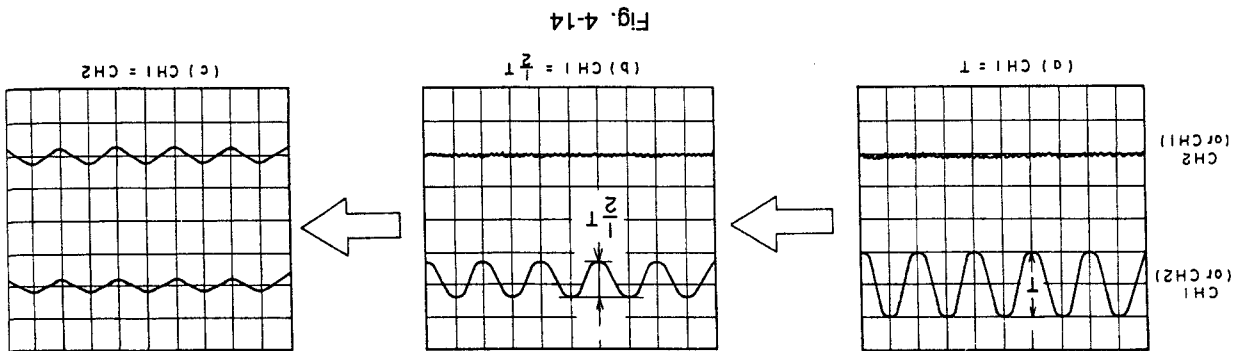


Fig. 4-14



# V. ELECTRICAL ADJUSTMENT

## Precautionary items prior to adjustments

- The color bar generator output should be 1.0Vp-p.
- The video output terminal should be terminated with 75 ohms (connect dummy load or 75 ohms input TV).
- Never adjust the D-MULTI (DN-MULTI) PCB because it is adjusted precisely at the factory and adjustment of the D-MULTI section is required special testing equipments.

Required following test tapes.

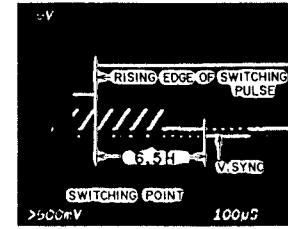
Test tape	Parts No.
TF-530RFS	AT-751775
TF-532CBS	AT-751360

STEP	ADJUSTMENT ITEM
1.	MODE and INPUT SIGNAL/TEST TAPE
2.	TEST POINT and ADJ part
3.	REMARKS (●) & RESULT (*):

Test point      ADJ part

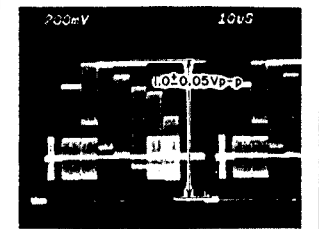
## 1 PB SWITCHING POINT

- "PB", test tape TF-530RFS
  - TP2 (V. SWP), VIDEO OUT & VR401 (SW. POINT)
  - Connect an oscilloscope's CH-1 to the VIDEO OUT and CH-2 to the TP2 for triggering
- \*Adjust the VR401 so that the switching point is positioned  $6.5 \pm 0.3$  H from the V-SYNC left edge as shown.



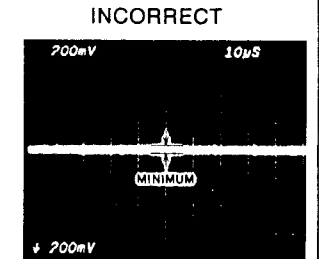
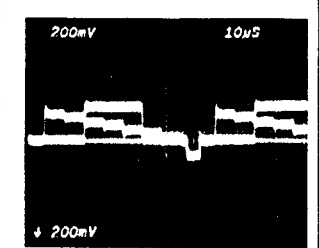
## 2 VIDEO E-E LEVEL

- "E-E" (stop mode), PAL color bar signal
  - VIDEO OUT & VR603 (E-E LEVEL)
  - Connect an oscilloscope to the VIDEO OUT.
- \*Adjust the VR603 so that the output level is 1.0Vp-p.



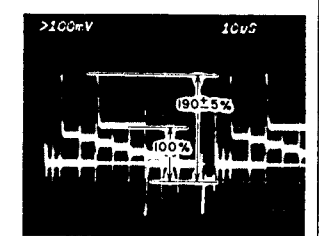
## 6 CCD

- "PB", test tape TF-532CBS
  - TP600 (CCD REF LEVEL), TP770 (CCD LEVEL) & VR770 (CCD LEVEL)
  - Connect an oscilloscope's CH-1 to TP600 and CH-2 to TP770. And set the oscilloscope's display mode to "ADD" mode and CH-2 polarity to "INVERTED".
- \*Adjust the VR770 so that waveform level on the oscilloscope becomes minimum.



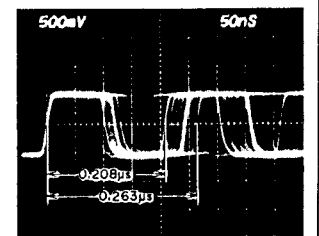
## 3 WHITE CLIP

- "E-E" (stop mode), PAL color bar signal
  - TP601 (W.CLIP) & VR602 (W.CLIP)
  - Connect an oscilloscope to the TP601.
- \*Adjust the VR602 so that white clip level becomes 190% as shown.



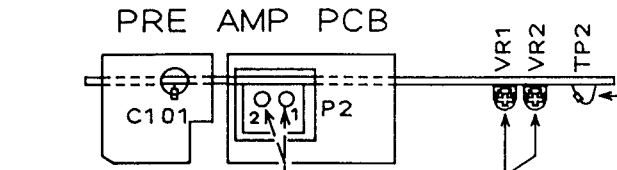
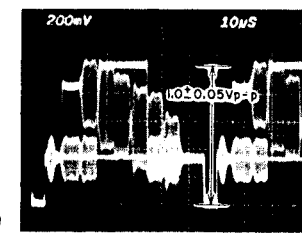
## 4 FREQUENCY & DEVIATION

- "REC", PAL color bar signal
  - TR604 base (REC Y) & VR601 (FREQ), VR600 (DEV)
  - Connect an oscilloscope to the TR604 base on the VIDEO PCB.
- \*Adjust the VR600 and VR601 alternately so that the waveform becomes as shown.
- Lower frequency: 0.263  $\mu$ s (3.8MHz)  
Upper frequency: 0.208  $\mu$ s (4.8MHz)



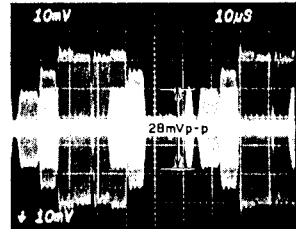
## 7 VIDEO PB LEVEL

- "REC"  $\rightarrow$  "PB", PAL color bar signal
  - VIDEO OUT & VR604 (PB LEVEL)
  - Connect an oscilloscope to the VIDEO OUT.
- Make some recording on a blank tape then play it back.
- \*Adjust the VR604 so that the PB level becomes 1.0Vp-p



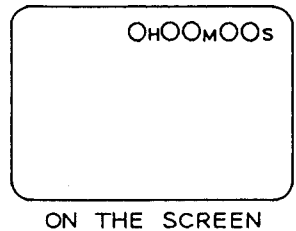
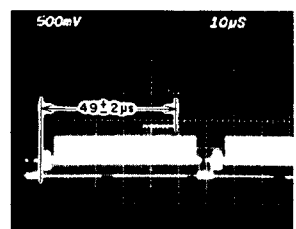
## 5 VIDEO REC CURRENT

- "REC" (LP mode), PAL color bar signal
  - P2 (TP REC. CURR) ① pin, ② pin & VR1 (REC-CHROMA), VR2 (REC-Y)
  - Connect an oscilloscope's CH-1 to P2 ① pin and CH-2 to ② pin. And set the oscilloscope's display mode to "ADD" mode and CH-2 polarity to "INVERTED".
- Turn the VR2 (REC-Y) fully counterclockwise.
- \*Adjust the VR1 so that the chroma REC current becomes 28mVp-p at the burst signal area.
- \*Disconnect the input signal then adjust the VR2 so that the Y REC current becomes 180mVp-p.

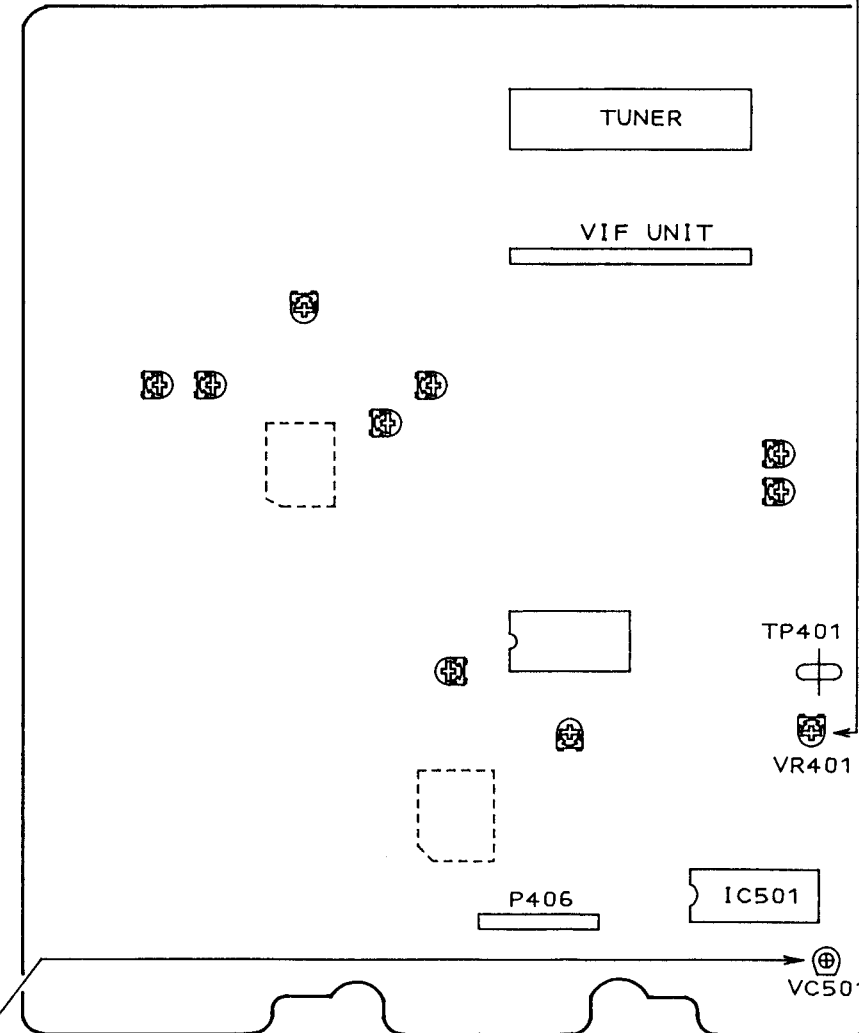


## 8 CHARACTER POSITION

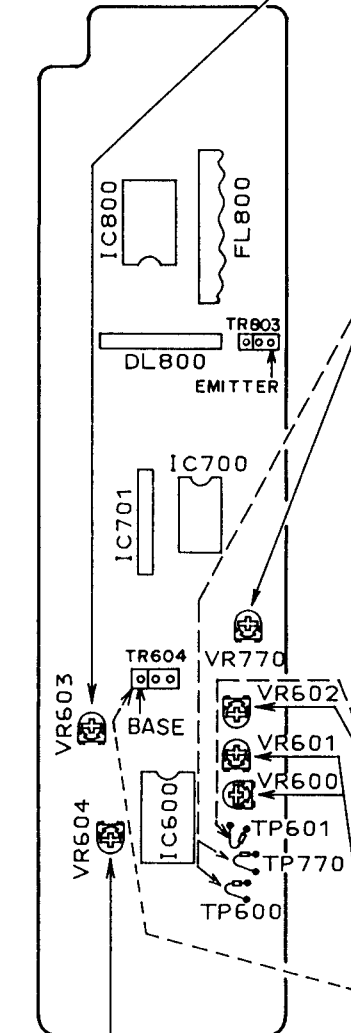
- "E-E" (STOP mode), No signal input
  - VIDEO OUT, TV SCREEN & VC501
  - Press the "DISPLAY" button on the remote control to display elapsed tape counter.
- Connect an oscilloscope to the VIDEO OUT.
- \*Adjust the VC501 so that right end of the IMS signal becomes 49  $\mu$ s from the H-sync as shown.



ON THE SCREEN



MAIN PCB



VIDEO PCB

### 12 HI-FI DEVIATION

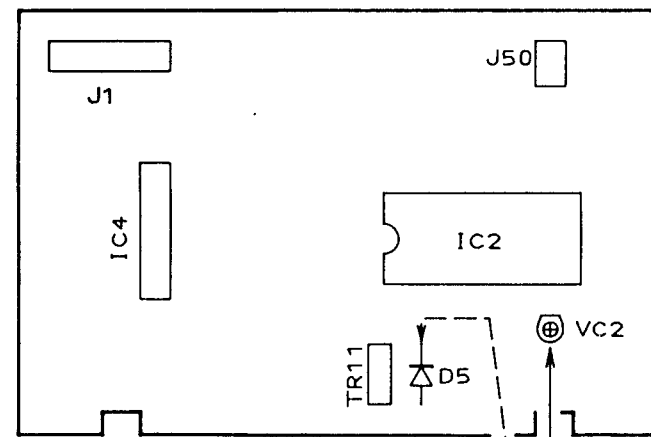
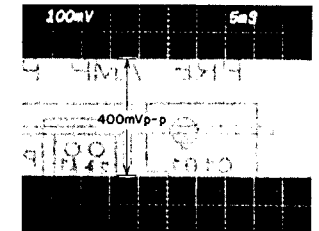
1. "PB", test tape TF-532CBS
  2. AUDIO OUT (L), (R) & VR300 (L-DEV), VR302 (R-DEV)
  3. • Connect an AC milli-voltmeter to the L-CH and R-CH AUDIO OUT.
- \*Adjust the VR300 and VR302 so that the output level of both L and R channel becomes -6.0dBs.
- \*Input 1kHz, -6.0dBs signal to the AUDIO IN terminal and adjust the volumes on the DOOR BLOCK so that both L-CH and R-CH output levels are -6dBs during stop mode. Set a blank tape to the VCR. Make some recording on the tape then play it back and confirm that the playback level is  $-6.0 \pm 1.0$ dBs.

### 11 HI-FI CARRIER FREQUENCY

1. "E-E" (stop mode), no signal input
  2. R332 (L), R331 (R) & VR301 (L-fo), VR303 (R-fo)
  3. • Connect a frequency counter to the lead of the R332 (reverse side of the MAIN PCB) and ground.
- \*Adjust the VR301 so that the reading on the frequency counter becomes  $1.4\text{MHz} \pm 10\text{kHz}$ .
- Connect the frequency counter to the lead of the R331 (reverse side of the MAIN PCB) and ground.
- \*Adjust the VR303 so that the reading on the frequency counter becomes  $1.8\text{MHz} \pm 10\text{kHz}$ .

### 13 HI-FI REC CURRENT

1. "REC" (LP mode), no signal input
  2. C101 (A REC CURR) & VR304 (REC CURRENT)
  3. • Connect an oscilloscope to the lead of the C101.
- Set the tape speed to the "LP" mode and start recording on a blank tape.
- \*Adjust the VR304 so that the waveform level on the oscilloscope becomes 400mV p-p.



NICAM PCB  
(EK, EOH-N,  
EOH-DN ONLY)

### 15 D/A OSC

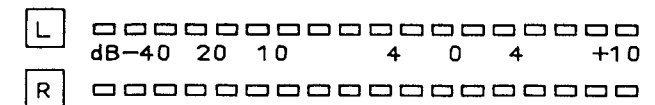
1. "E-E" (stop mode), receive NICAM broadcast station
  2. TP-OSC (D5 cathode side) & VC2 (D/A OSC)
  3. • Connect an oscilloscope to TP-OSC and set input mode to "DC".
- \*Adjust VC2 so that average DC voltage becomes 1.5V.

### 9 REC BIAS

1. "REC" (LP mode), (no signal input)
  2. P200 ①, ② pin & VR200 (REC BIAS)
  3. • Connect an AC milli-voltmeter to the P200 ① pin and ② pin (ground side).
- (Never connect the AC milli-voltmeter's ground to the VCR's ground)
- \*Adjust the VR200 so that the reading on the AC milli-voltmeter becomes 2.4mV

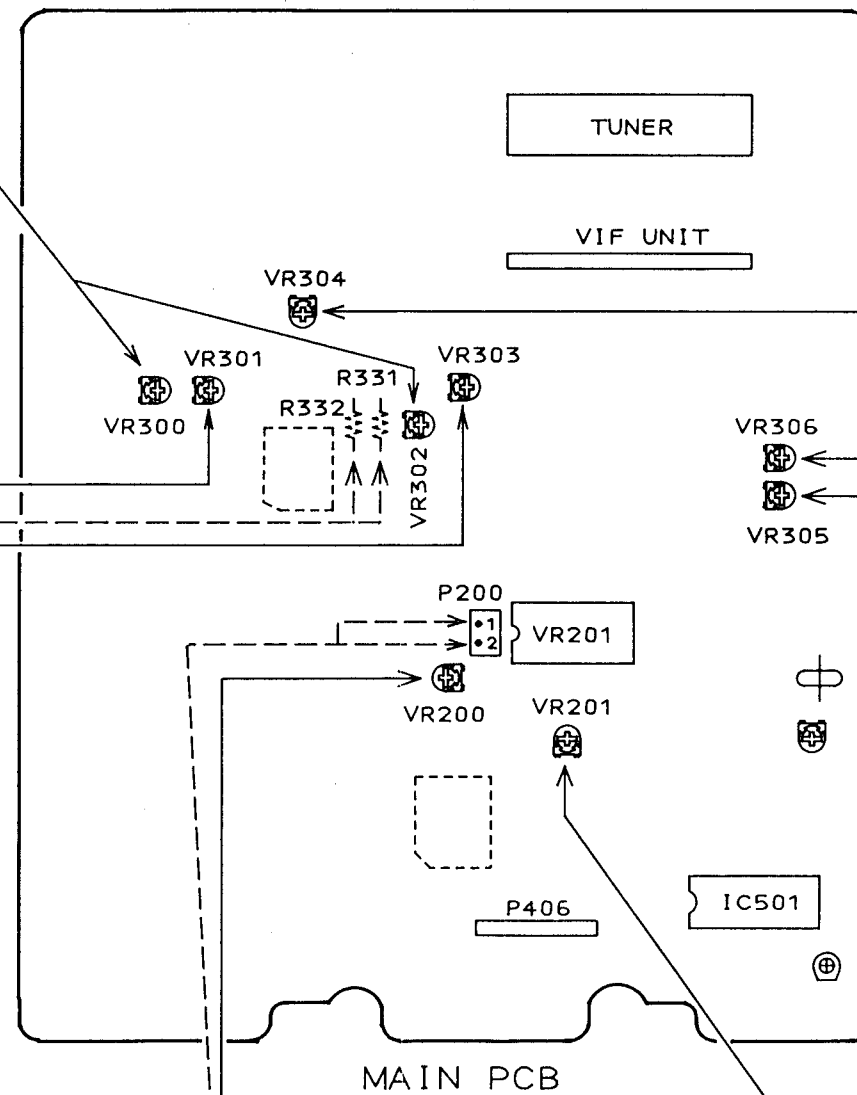
### 14 METER SENSITIVITY

1. "E-E", 1kHz -6dB
  2. AUDIO OUT & VR305 (L-CH), VR306 (R-CH)
  3. • Connect an AC milli-voltmeter to the AUDIO OUT (L-CH and R-CH).
- Adjust the volumes on the front panel's DOOR BLOCK so that both L-CH and R-CH output levels are -6.0dBs.
- Engage the "TEST MODE" (refer to the "information" section) then press the "AUDIO MONITOR" button on the remote control unit and choose the Hi-Fi mode.
- \*Adjust the VR305 and VR306 so that the numbers displayed in the tape counter's hour part (L-CH) and minute part (R-CH) in the FL DISPLAY reach 34 to 35 (the bar meter must indicate 0 VU at this point). Then change the output level of the audio signal generator slightly and confirm that the indication of the L-CH and R-CH bar meter changes simultaneously. If the result is not satisfactory, finely adjust the VR305 or VR306 again.

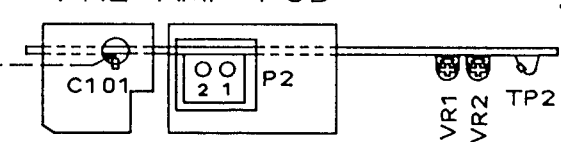


### 10 LINEAR PB LEVEL

1. "PB", test tape TF-532CBS
  2. AUDIO OUT & VR201 (LINEAR PB LEVEL)
  3. • Connect an AC voltmeter to the AUDIO OUT (L-CH or R-CH).
- Press the "AUDIO MONITOR" button on the remote control unit and choose the "LINEAR AUDIO" playback.
- \*Adjust the VR201 so that the output level becomes -11.0dBs.



### PRE AMP PCB



# VI. PARTS LIST

**ATTENTION**

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

### 2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

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SP (Service Parts) Classification  
 This number corresponds with the individual parts index number in that figure.

b) PC Board

### 6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

↑  
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 ↑  
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Symbols for primary destination  
 [A] : AAL (U.S.A)      [S] : SAA (Australia)  
 [B] : BEAB (England) [U] : U/T (Universal Area)  
 [C] : CSA (Canada)  
 [E] : CEE (Europe)    [V] : VDE (Germany)  
 [J] : JPN (Japan)      [Y] : Custom Version

↑  
 ↑

SP (Service Parts) Classification  
 These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

**WARNING**

⚠ (\*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

**AVERTISSEMENT**

⚠ (\*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

## 1. RECOMMENDED SPARE PARTS

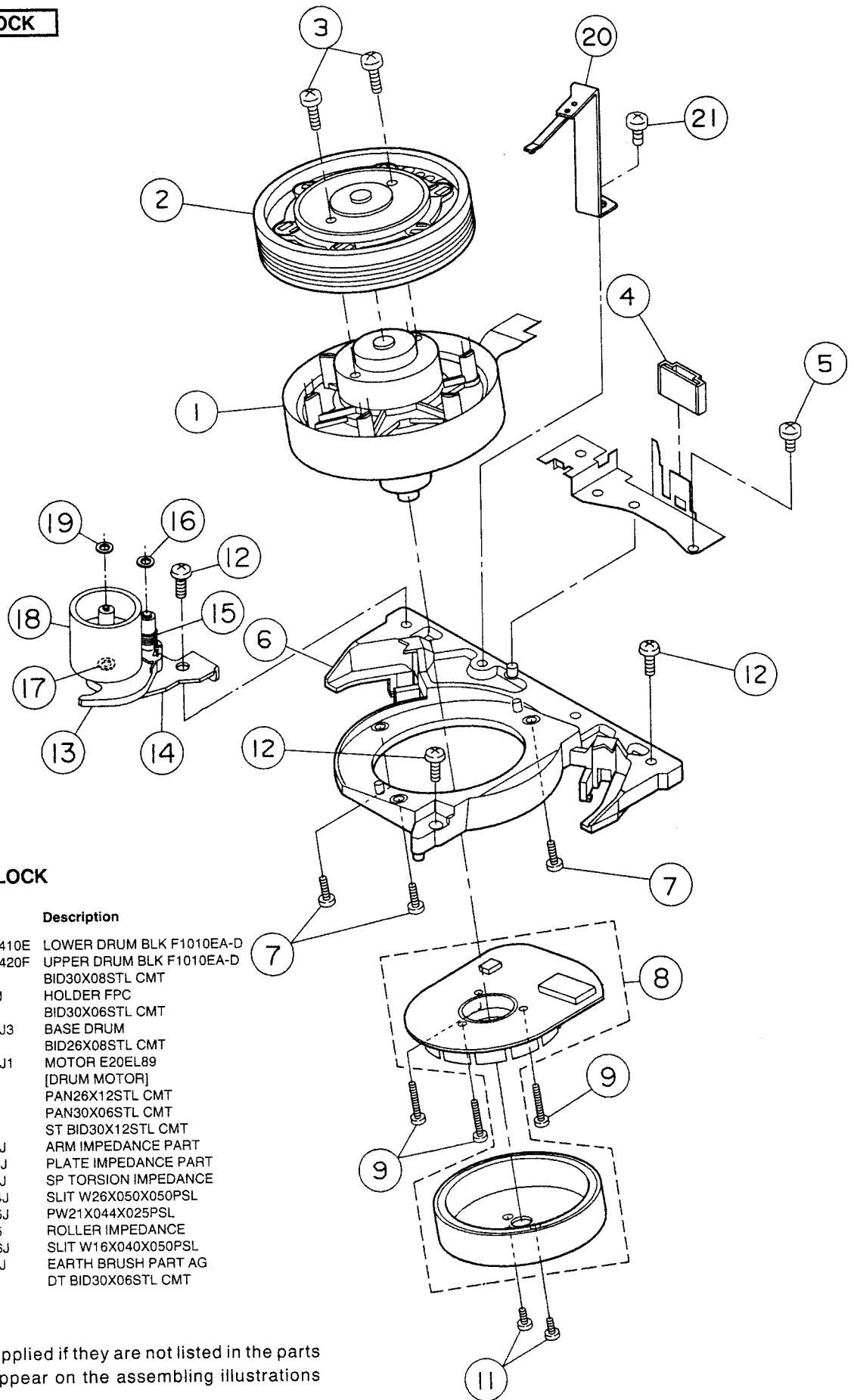
We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	AV-B1040A010G	REMOCON BLK RC-V1001E [EK]
2	AV-B1040A010H	REMOCON BLK RC-V1001G [EOG]
3	AV-B1043A010G	REMOCON BLK RC-V1002E [EOH]
4	BB-V1130A020F	MECHA DECK BLK F1010EOH-D
5	BL-V1102A140A	ARM LOADING BLK 425EA
6	BL-387458J2	CAPSTAN BRAKE PART
7	BL-V1123A050A	TENSION ARM BLK F800EA
8	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
9	BM-401296J1	MOTOR E20EL89 [DRUM MOTOR]
10	BM-387503J	MOTOR PART [LOADING MOTOR]
11	*BT-408920J	TRANS POW V1154 EA [EK]
12	*BT-408921J	TRANS POW V1154 EOG [EOG]
13	*BT-408922J	TRANS POW V1154 EOH [EOH]
14	BV-V1102A150A	CASSETTE LOAD BLK 425EA
15	BV-V1102A070A	LEADER S BLK 425EA
16	BV-V1102A080A	LEADER T BLK 425EA
17	BV-V1123A410E	LOWER DRUM BLK F1010EA-D
18	BV-390051J	RF CONVERTER ENC-87976 EK [EK]
19	BV-403409J	RF CONVERTER MDL6K6D755A EO [EOG,EOH]
20	BV-V1123A420F	UPPER DRUM BLK F1010EA-D
21	*EC-391843J	C DOUBLE FVD0H223Z 5.5DC
22	ED-397391J	D LED BR3668S RED
23	ED-390011J	D LED GL451 INFRARED [D1]
24	ED-403450J	D LED SE303ARF-C INFRARED
25	ED-386031J	D SILICON CHIP MA110-TW
26	ED-366443	D SILICON H MA700FA5 F10
27	ED-307572	D SILICON H 1SS131
28	*ED-394708J	D SILICON RBA402 200/4.0A
29	ED-511907	D SILICON 1N4002 100/1.0A
30	ED-394936J	D VARACTOR 1SV111
31	ED-364032	D ZENER H HZS10B2J
32	ED-404468J	D ZENER H HZS11C3 T26
33	ED-396065J	D ZENER H HZS12C1
34	ED-404388J	D ZENER H HZS16-1 T26
35	ED-404254J	D ZENER H HZS2B3 T26
36	ED-389686J	D ZENER H HZS2C2
37	ED-400166J	D ZENER H HZS3B2
38	ED-397399J	D ZENER H HZS3C3
39	ED-412008J	D ZENER H HZS33-1L T26
40	ED-387762J	D ZENER H HZS36-3L
41	ED-408719J	D ZENER H HZS4C2
42	ED-408943J	D ZENER H HZS5A2 T26
43	ED-388358J	D ZENER H HZS5C2
44	ED-387919J	D ZENER H HZS6A1L
45	ED-394968J	D ZENER H HZS6B2 T26
46	ED-378530J	D ZENER H HZS6B2L
47	ED-403743J	D ZENER H HZS6B3
48	ED-387783J	D ZENER H HZS6C3L
49	ED-387763J	D ZENER H HZS7B3L
50	ED-408830J	D ZENER H HZS7C1L T26
51	ED-400174J	D ZENER H HZS7C2L
52	ED-367502	D ZENER H HZS9A1L
53	ED-388368J	D ZENER H HZS9B3L
54	ED-387765J	D ZENER H HZS9C1L
55	*EF-601964	FUSE SEMKO T 250V 1.60A
56	*EF-601301	FUSE SEMKO T 250V 2.00A
57	EH-400747J	DL ADL-FE2249Q
58	EH-725827J	FILTER CE SAF32.9MDE70Z [EK]
59	EH-730625J	FILTER CE SAF38.9MZW70Z
60	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG]

Ref.No.	Part No.	Description
61	EH-394948J	FILTER CE SFT5.5MA [EOH-N/DN]
62	EH-394947J	FILTER CE SFT5.74MA
63	EH-725829J	FILTER CE SFT6.0MA [EK]
64	EH-368948	FILTER CE TPS5.5MW 5.500MHZ
65	EH-373919	FILTER CE TPS6.0MB [EK]
66	EH-394684J	FILTER EMI ZBF503D-00TA T05
67	EH-394984J	FILTER LC BP SFB41743
68	EH-397511J	FILTER LC BP TH316BQKS-2982QDD [EOH-DN/N]
69	EH-382829J	FILTER LC BP TH316BQM-2110QDAF [EK]
70	EH-364045	FILTER LC FF-78P
71	EH-394858J	FILTER LC LP MYV-2V2
72	EH-402170J	FILTER LC LP SEL-5065
73	EH-732524J	FILTER SAW SAF33.0MDA70Z [EOH-N/DN]
74	EH-732528J	FILTER SAW SAF33.4MC70Z
75	EH-714628	FILTER SAW SAF39.5MZ70Z [EK]
76	EI-394680J	IC AN3171K
77	EI-396454J	IC AN3267K
78	EI-373981J1	IC BA10393N
79	EI-386468J	IC BA3308
80	EI-364896	IC BA6138
81	EI-366892	IC BA7025L [EOG]
82	EI-387586J	IC BA7244BS
83	EI-394983J	IC BA7703K1
84	EI-397285J	IC BA7740S
85	EI-388360J	IC BA7765AS
86	EI-356457	IC BU4013B
87	EI-394937J	IC CF70124
88	EI-394949J	IC IR3P72
89	EI-408959J	IC LA7200
90	EI-394839J	IC LA7332
91	EI-729997J	IC LA7575
92	EI-390053J	IC LA7910 [EOG,EOH]
93	EI-408964J	IC LA7954
94	EI-394951J	IC LB1215
95	EI-403233J	IC LB1641
96	EI-394856J	IC LC8992
97	EI-394861J	IC LVA521S-2
98	EI-401050J	IC LVA523SA2
99	EI-389622J	IC L5631
100	EI-387019J	IC MC1377P
101	EI-408961J	IC MM1031XS
102	EI-403469J	IC MM1068XS
103	EI-404505J	IC MN675201 XDH JTASYP1
104	EI-408434J	IC MV1815-1BA
105	EI-411969J	IC M38173M6-222FP JTXOPD1 [EK]
106	EI-411970J1	IC M38173M6-224FP JTXOPP2 [EOG,EOH]
107	EI-408408J1	IC M50933-128FP JXLCDR2
108	EI-393323J	IC M5218AL-771
109	EI-400756J	IC NJM4558L-B
110	EI-201940	IC NJM4558S
111	EI-400672J	IC S-8052ALB-LE
112	EI-373955	IC S-8053ALR
113	EI-385958J	IC SAA4700 [EOG]
114	EI-397560J	IC SAA7322GP
115	EI-405224J	IC ST24C02
116	EI-410265J	IC ST24C04
117	EI-397123J	IC TA8703S
118	EI-332259	IC TC4052BP
119	EI-408930J	IC TDA8732
120	EI-405722J	IC UPD6450CX-515
121	EI-408449J	IC UPD75004GB-771 JXVPT1 QF
122	EI-408432J	IC UPD75218CW-012 JXVPT1
123	EI-410125J	IC V53C464AP-80
124	EI-403451J	OSC CE CSB1200J 1.200MHZ
125	EI-403467J	OSC CE CSB500F40 15.680KHZ
126	EI-408450J	OSC CE CST2.45MGW 2.450MHZ
127	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
128	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
129	EI-368825M	OSC X'TAL C-002RX 32.768KHZ
130	EI-408433J	OSC X'TAL HC-43/U 27750KHZ

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
131	EI-408933J	OSC X'TAL HC-49/U 11648KHZ	206	ML-387277J3	ARM REVIEW PART
132	EI-408932J	OSC X'TAL HC-49/U 11700KHZ [EOH-DN/N]	207	ML-387402J1	LEVER TRIGGER
133	EI-408931J	OSC X'TAL HC-49/U 13104KHZ [EK]	208	ML-387316J	MAIN BRAKE (S) PART
134	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ	209	ML-387318J	MAIN BRAKE (T) PART
135	EI-389640J	OSC X'TAL HC-49/U 8000KHZ	210	ML-407119J	REVIEW BRAKE (3) PART
136	EI-394673J	OSC X'TAL HC-49/U 8867.238KHZ	211	ML-404567J1	SLIDER BRAKE (3) PART
137	EI-403347J	OSC X'TAL NR-18-S 16.384MHZ	212	ML-404944J	SLIDER TRIGGER (2)
138	EI-381632J	OSC X'TAL 86686 4.433619MHZ	213	MP-404852J	PINCH ROLLER (2) PART
139	EJ-408427J	CONNECTOR LCD (4) B1043	214	MR-387406J	HOLDER THRUST WORM
140	EM-408445J	IND FL FV548G CHARACTER	215	MR-391968J	PULLEY TRIGGER (2)
141	EM-408437J	IND LCD LD-B5444A ENGLISH	216	MR-387286J1	ROLLER IMPEDANCE
142	EO-394950J	COIL DET 1 134-5176	217	MT-404547J	DISK (3) PART
143	EO-396464J	COIL DET 1 134-5177	218	MZ-404577J	DISK CLUTCH (2) PART
144	EO-408439J	COIL OSC 1 125-8019-31 70.0KHZ	219	MZ-404538J	GEAR CAM SLIDER (3)
145	EO-408440J	COIL OSC 1 125-8020-41 70.0KHZ	220	MZ-387335J	GEAR EJECT
146	*ER-328278	R FUSE H ERD2FC 1/4W 10R0G	221	MZ-387333J	GEAR FRONT LOADING
147	*ER-331619	R FUSE H S10 ERD2FC 1/4W 39R0G	222	MZ-404995J	GEAR MID PART
148	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J	223	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
149	*ER-408963J	R FUSE V T05 RF25SCVTP1/4WR33K	224	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
150	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K	225	MZ-387332J	GEAR WORM WHEEL
151	*ER-403405J	R OMF H S12 FS 1W R75J	226	MZ-401686J1	GEAR WORM (2)
152	ES-373099	SW LEAF MTS10110MPC1			
153	ES-391710J	SW LEAF SPPB51 01-1 NO			
154	ES-408470J	SW MICRO HXW0593-01-100 01-1			
155	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]			
156	ES-408428J	SW ROTARY ENCODER SRGPPJ			
157	ES-409005J	SW ROTARY ENCODER SRGPPJ-1			
158	ES-397339J	SW SLIDE ESD-170252			
159	ES-393431J	SW TACT CHIP SKHUAB T12E			
160	ES-409007J	SW TACT HKW0606-01-500			
161	ET-408988J	DETECTOR SBX1619-52			
162	ET-403420J	DETECTOR SG-105LF [PH1][PH2]			
163	ET-731437J	TR CHIP DTC114EK			
164	ET-713614	TR CHIP 2SA1235 E,F			
165	ET-725820J	TR CHIP 2SC2735J			
166	ET-356336	TR DTA114ES			
167	ET-408827J	TR DTA114TL T05			
168	ET-363953	TR DTA114TS			
169	ET-354415	TR DTA144ES			
170	ET-373985	TR DTA144TS			
171	ET-353897	TR DTC114ES			
172	ET-360399	TR DTC114TS			
173	ET-394881J	TR DTC114WS			
174	ET-354371	TR DTC124ES			
175	ET-375986	TR DTC124TS			
176	ET-408826J	TR DTC143EL T05			
177	ET-364060	TR DTC143ES			
178	ET-354364	TR DTC143TS			
179	*ET-373391	TR DTC143ZS			
180	ET-354414	TR DTC144ES			
181	ET-370310	TR DTC144TS			
182	ET-356236	TR FET 2SK363 GR,BL			
183	ET-361490	TR PHOTO PN268 [TR1]			
184	ET-390009J	TR PHOTO PT493F [TR4]			
185	ET-364040	TR UN421D			
186	ET-356224	TR 2SA1286 G,H,J F05			
187	ET-353899	TR 2SA1317 S,T,U			
188	*ET-373210	TR 2SB1187 E,F			
189	*ET-404498J	TR 2SB1306 Q,R T05			
190	ET-388338J	TR 2SB1425 S,E			
191	ET-375777	TR 2SC2926S P,Q			
192	ET-397160J	TR 2SC3330 R,S,T,U,V			
193	*ET-366168	TR 2SD1292 Q,R			
194	*ET-373025	TR 2SD1944 J1,J2,K			
195	*ET-405622J	TR 2SD2061 E,F			
196	ET-370819	TR.CHIP 2SC3052			
197	ET-405342J	TR.CHIP 2SD1620			
198	EV-401032J	VR SLIDE RS30B221J K203X2NO CL			
199	EX-405691J	THERMISTOR NTH5D332KA			
200	HE-390013J	HEAD E HVFME0020A			
201	HR-405340J	HEAD COMBO HVMZA1121A			
202	MB-407117J	BELT CAPSTAN (3)			
203	MI-404552J	IDLER (2) PART			
204	ML-391745J3	ARM DAMPER			
205	ML-387350J1	ARM LID OPENER			

**HEAD DRUM BLOCK**



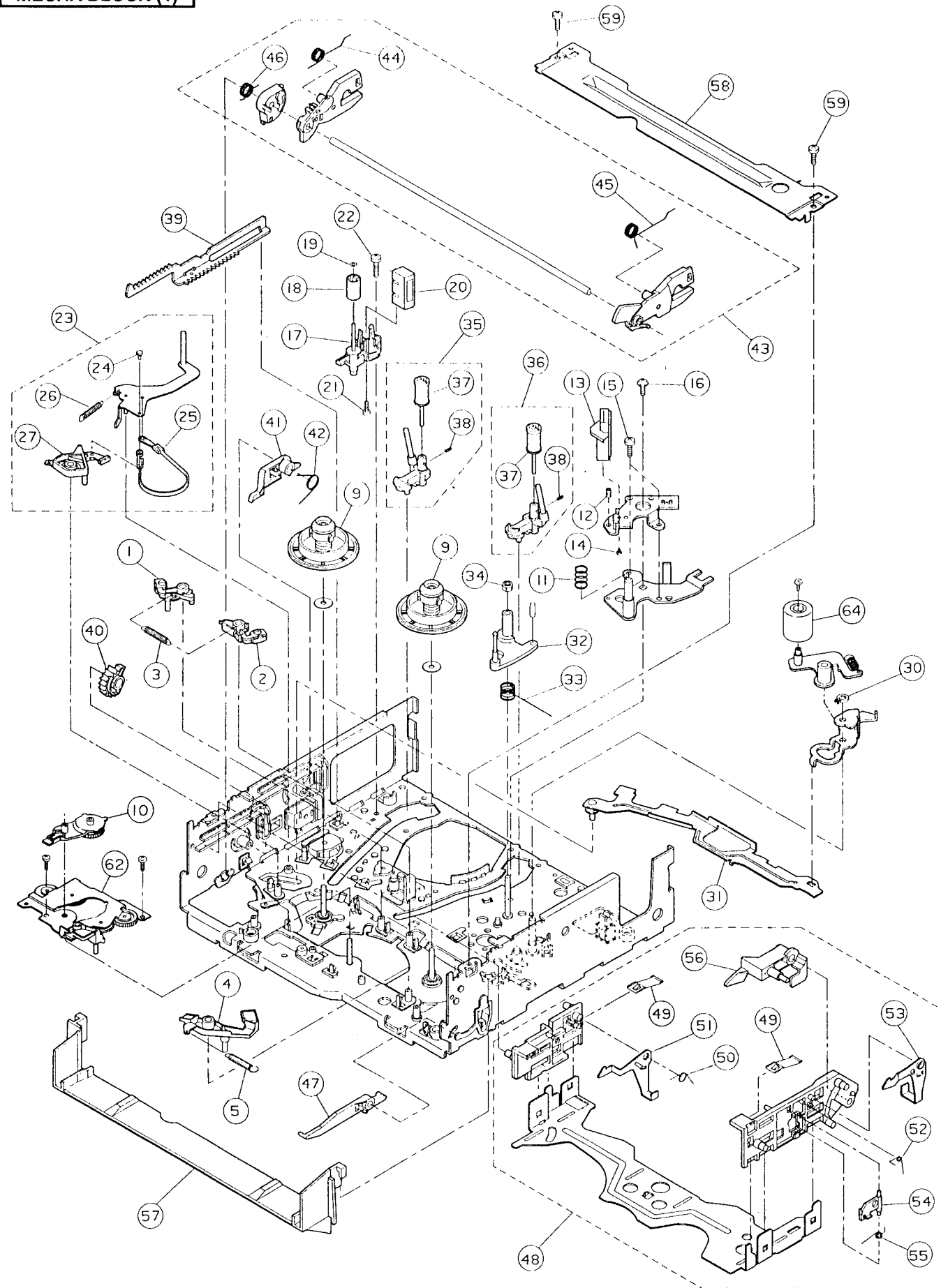
**2. HEAD DRUM BLOCK**

Ref.No.	Part No.	Description
1	BV-V1123A410E	LOWER DRUM BLK F1010EA-D
2	BV-V1123A420F	UPPER DRUM BLK F1010EA-D
3	ZS-321298	BID30X08STL CMT
4	SZ-387388J	HOLDER FPC
5	ZS-379405	BID30X06STL CMT
6	MA-387474J3	BASE DRUM
7	ZS-563444	BID26X08STL CMT
8	BM-401296J1	MOTOR E20EL89 [DRUM MOTOR]
9	ZS-467796	PAN26X12STL CMT
11	ZS-379350	PAN30X06STL CMT
12	ZS-336714	ST BID30X12STL CMT
13	ML-392137J	ARM IMPEDANCE PART
14	MZ-392144J	PLATE IMPEDANCE PART
15	ZG-392143J	SP TORSION IMPEDANCE
16	ZW-392224J	SLIT W26X050X050PSL
17	ZW-392225J	PW21X044X025PSL
18	MR-364335	ROLLER IMPEDANCE
19	ZW-392226J	SLIT W16X040X050PSL
20	VT-401282J	EARTH BRUSH PART AG
21	ZS-364543	DT BID30X06STL CMT

**NOTE:**

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**MECHA BLOCK (1)**



**3. MECHA BLOCK (1)**

Ref.No.	Part No.	Description
1	ML-387316J	MAIN BRAKE (S) PART
2	ML-387318J	MAIN BRAKE (T) PART
3	ZG-387320J	SP PULL MAIN BRAKE
4	ML-407119J	REVIEW BRAKE (3) PART
5	ZG-387323J	SP PULL REVIEW BRAKE
8	ZW-389814J	PW31X110X050PSL
9	MT-404547J	DISK (3) PART
10	MI-404552J	IDLER (2) PART
11	ZG-387438J1	SP PUSH A/C
12	ZG-373900	6SET30X080SCM PKR CP
13	HR-405340J	HEAD COMBO HVMZA1121A
14	ZS-404844J	PAN20X02STL BZN PS1
15	ZS-321298	BID30X08STL CMT
16	ZS-389853J	DT BID30X06STL CMT C080
17	MZ-402760J2	HOLDER FE HEAD PART B
18	MR-387286J1	ROLLER IMPEDANCE
19	ZW-374445	SLIT W17X032X025PSL
20	HE-390013J	HEAD E HVFME0020A
22	ZS-336714	ST BID30X12STL CMT
23	BL-V1123A050A	TENSION ARM BLK F600EA
24	SZ-387263J4	HOLDER LEVER TENSION
25	ML-390768J4	TENSION BAND PART
26	ZG-395470J	SP PULL TENSION (2)
27	MZ-395471J3	TENSION BRAKE PART
30	ZW-332843	RETAINING RING GRIP 380STL ACP
31	ML-387431J1	SLIDER PINCH PART
32	ML-387277J3	ARM REVIEW PART
33	ZG-387282J	SP TORSION REVIEW
34	ZW-401776J	NUT REVIEW
35	BV-V1102A070A	LEADER S BLK 425EA
36	BV-V1102A080A	LEADER T BLK 425EA
37	VT-387394J1	GUIDE ROLLER D8 PART
38	ZS-374458	6SET20X030SCM PKR FP
39	ML-387428J	SLIDER FRONT LOADING
40	MZ-387335J	GEAR EJECT
41	ML-391745J3	ARM DAMPER
42	ZG-395567J	SP TORSION ARM DAMPER
43	BL-V1102A140A	ARM LOADING BLK 425EA
44	ZG-387417J	SP TORSION LOAD (S)
45	ZG-387418J	SP TORSION LOAD (T)
46	ZG-392831J	SP TORSION JOINT (2)
47	ML-387350J1	ARM LID OPENER
48	BV-V1102A150A	CASSETTE LOAD BLK 425EA
49	ZG-387348J1	SP PLATE HOLDER
50	ZG-387421J	SP TORSION DAMPER (S)
51	ML-387345J	LEVER DAMPER (S)
52	ZG-388290J1	SP TORSION DAMPER (T)
53	ML-387346J	LEVER DAMPER (T)
54	ML-387344J	LEVER LOCK RELEASE
55	ZG-387420J1	SP TORSION RELEASE
56	ML-387349J2	ARM SHUTTER
57	SE-395554J	GUIDE FRONT (2)
58	MZ-387351J2	PLATE UPPER
59	ZS-358936	ST BID30X06STL CMT
62	MZ-404995J	GEAR MID PART
64	MP-404852J	PINCH ROLLER (2) PART
70	BB-V1130A020F	MECHA DECK BLK F1010EOH-D

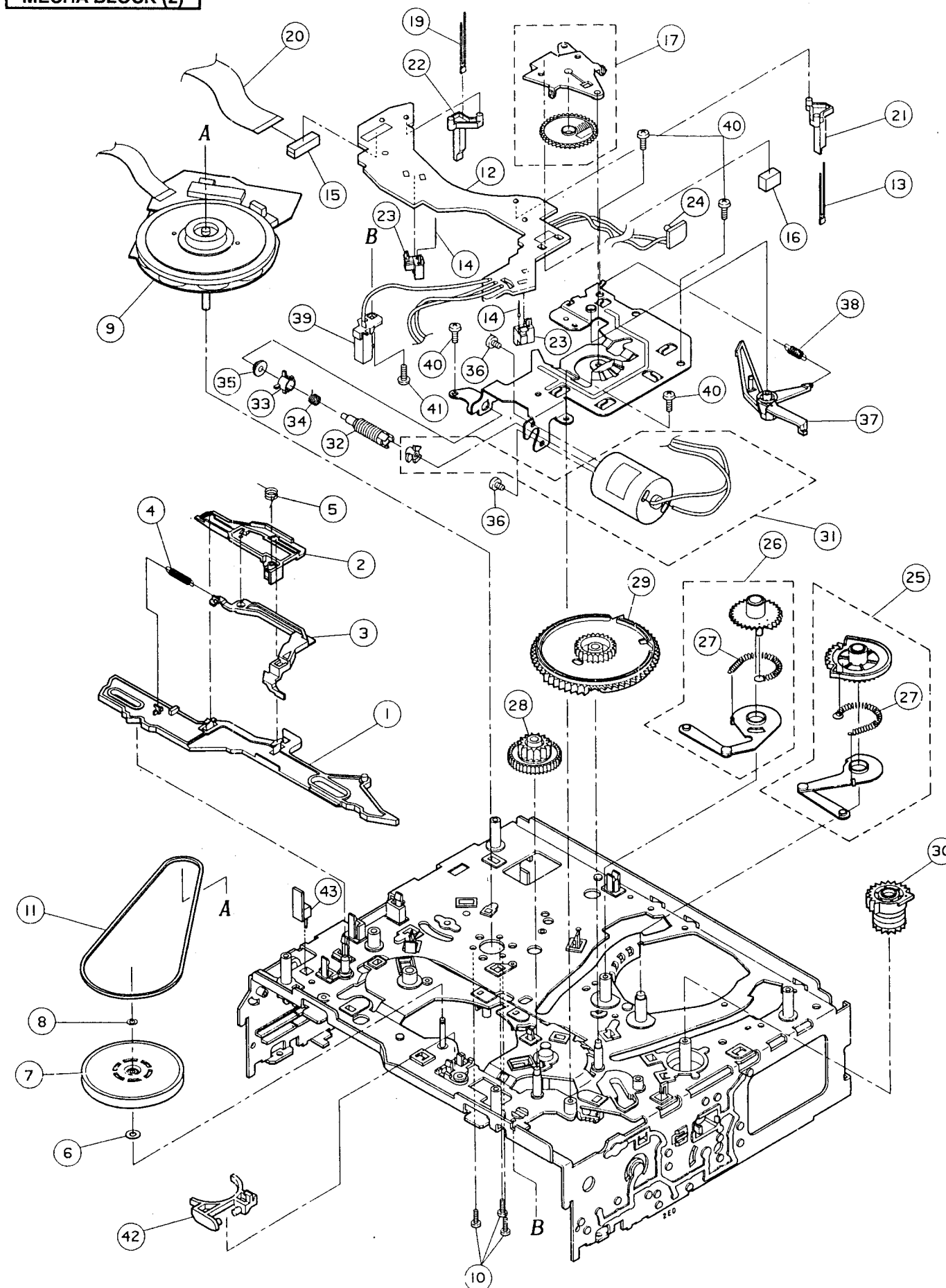
**NOTE:**  
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#### 4. MECHA BLOCK (2)

Ref.No.	Part No.	Description
1	ML-404567J1	SLIDER BRAKE (3) PART
2	ML-404944J	SLIDER TRIGGER (2)
3	ML-387402J1	LEVER TRIGGER
4	ZG-387468J	SP PULL SLIDER
5	ZG-387403J	SP TORSION COUPLING
6	ZW-389923J	PW26X060X050PSL
7	MZ-404577J	DISK CLUTCH (2) PART
8	ZW-387492J	SLIT W21X040X050PSL
9	BM-400682J1	MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR]
10	ZS-365149	PT BID26X06STL CMT
11	MB-407117J	BELT CAPSTAN (3)
12	EA-404543J	PC (#) SENSOR (2)KFX
13	ED-390011J	D LED GL451 INFRARED [D1]
14	ET-403420J	DETECTOR SG-105LF [PH1][PH2]
15	EJ-387497J	SOCKET HOUSING 5062-30-10-13 [PS1]
16	EJ-381837J	SOCKET 174074-5 5P [P1]
17	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
19	ET-390009J	TR PHOTO PT493F [TR4]
20	EW-389313J	CORD FFC P1.25 L=120 13P [WP1]
21	MZ-387430J	HOLDER D-LED
22	MZ-387445J	HOLDER S SENSOR
23	MZ-404542J	HOLDER PHOTO SENSOR (2)
24	ET-361490	TR PHOTO PN268 [TR1]
25	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
26	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
27	ZG-387413J1	SP PULL TOGGLE
28	MZ-387332J	GEAR WORM WHEEL
29	MZ-404538J	GEAR CAM SLIDER (3)
30	MZ-387333J	GEAR FRONT LOADING
31	BM-387503J	MOTOR PART [LOADING MOTOR]
32	MZ-401686J1	GEAR WORM (2)
33	MR-391968J	PULLEY TRIGGER (2)
34	ZG-387443J	SP TRIGGER
35	MR-387406J	HOLDER THRUST WORM
36	ZS-425981	BID30X03STL CMT
37	BL-387458J2	CAPSTAN BRAKE PART
38	ZG-387502J	SP PULL CAPSTAN BRAKE
39	ES-373099	SW LEAF MTS10110MPC1
40	ZS-389950J	PT BID26X10STL CMT
41	ZS-358936	ST BID30X06STL CMT
42	ML-387311J2	ARM COUPLING
43	ES-408470J	SW MICRO HXW0593-01-100 01-1

NOTE:  
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#### MECHA BLOCK (2)





## 5. P.C BOARD BLOCK

Ref.No.	Part No.	Description
1A	BA-V1154A600A	PC (#) MAIN BLK F1000EK-VN
1B	BA-V1154A600B	PC (#) MAIN BLK F1000EOG-VD
1C	BA-V1154A600D	PC (#) MAIN BLK F1010EOH-D (E)
1D	BA-V1154A600E	PC (#) MAIN BLK F1010EOH-D (V)
1E	BA-V1154A600F	PC (#) MAIN BLK F1010EOH-N
1F	BA-V1154A600H	PC (#) MAIN BLK F1030EOH-DN
2A	BA-V1154A610A	PC PRE AMP BLK F1000EK-VN [EK]
2B	BA-V1154A610B	PC PRE AMP BLK F1010EOH-D [EOG,EOH]
3A	BA-V1154A620A	PC OPERATION (1) BLK F1000EK-VN [EK]
3B	BA-V1154A620B	PC OPERATION (1) BLK F1000EOG-VD [EOG]
3C	BA-V1154A620D	PC OPERATION (1) BLK F1010EOH-D [EOH-D]
3D	BA-V1154A620E	PC OPERATION (1) BLK F1010EOH-N [EOH-DN/N]
4A	BA-V1154A630A	PC—OPERATION (2) BLK F1000EK-VN [EK]
4B	BA-V1154A630B	PC—OPERATION (2) BLK F1000EOG-VD [EOG]
4C	BA-V1154A630D	PC—OPERATION (2) BLK F1010EOH-D [EOH-D]
4D	BA-V1154A630E	PC—OPERATION (2) BLK F1010EOH-N [EOH-DN/N]
5A	BA-V1154A500A	PC—POWER (1) BLK F1000EK-VN [EK,EOH]
5B	BA-V1154A500B	PC—POWER (1) BLK F1000EOG-VD [EOG]
6A	BA-V1154A650A	PC (#) D-NICAM BLK F1000EK-VN [EK]
6B	BA-V1154A650C	PC (#) D-NICAM BLK F1030EOH-DN [EOH-DN]
6C	BA-V1154A650B	PC (#) D-NICAM BLK F1010EOH-N [EOH-N]
7	BA-V1154A660A	PC D-MULTI BLK F1010EOH-D [EOG,EOH-D]
8A	BA-V1154A720A	PC (#) IN-OUT BLK F1000EK-VN [EK,EOH-DN]
8B	BA-V1154A720C	PC (#) IN-OUT BLK F1010EOH-D [EOH-D,EOH-N]
9	BA-V1154A690A	PC—CANAL PLUS BLK F1000EOG-VD [EOG]

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARDS.

- MAIN P.C BOARD
- VIDEO P.C BOARD
- PC (#) IN-OUT BLK
- VIF UNIT

PC (#) OPERATION (2) BLK CONSISTS OF FOLLOWING P.C BOARDS.

- OPERATION (2) P.C BOARD
- FRONT P.C BOARD
- VR P.C BOARD

PC (#) POWER (1) BLK CONSISTS OF FOLLOWING P.C BOARDS.

- POWER SUPPLY (1) P.C BOARD
- POWER SUPPLY (2) P.C BOARD

PC (#) D-NICAM BLK CONSISTS OF FOLLOWING P.C BOARDS.

- NICAM P.C BOARD
- DN—MULTI P.C BOARD

PC (#) IN-OUT BLK CONSISTS OF FOLLOWING P.C BOARDS.

- IN-OUT (A) P.C BOARD
- IN-OUT (B) P.C BOARD

PC (#) CANAL PLUS BLK CONSISTS OF FOLLOWING P.C BOARDS.

- CANAL PLUS (A) P.C BOARD
- CANAL PLUS (B) P.C BOARD

## 6. MAIN P.C BOARD

Ref.No.	Part No.	Description
C110	*EC-391843J	C DOUBLE FYD0H223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131 [EOG,EOH-D(V)]
D2	ED-307572	D SILICON H 1SS131 [EOG,EOH-D(V)]
D3	ED-307572	D SILICON H 1SS131 [EOH-D(V)]
D5	ED-307572	D SILICON H 1SS131 [EOH]
D6	ED-367502	D ZENER H HZS9A1L [EOH]
D7	ED-394968J	D ZENER H HZS6B2 T26 [EOH]
D8	ED-307572	D SILICON H 1SS131 [EOH]
D9	ED-307572	D SILICON H 1SS131 [EOH]
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-387765J	D ZENER H HZS9C1L
D13	ED-307572	D SILICON H 1SS131
D14	ED-408943J	D ZENER H HZS5A2 T26
D16	ED-387919J	D ZENER H HZS6A1L
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D70	ED-388368J	D ZENER H HZS9B3L
D101	ED-387919J	D ZENER H HZS6A1L
D102	ED-397399J	D ZENER H HZS3C3
D107	ED-404388J	D ZENER H HZS16-1 T26
D108	ED-387783J	D ZENER H HZS6C3L
D110	ED-403743J	D ZENER H HZS6B3
D112	ED-396065J	D ZENER H HZS12C1
D200	ED-307572	D SILICON H 1SS131
D201	ED-388368J	D ZENER H HZS9B3L
D203	ED-397399J	D ZENER H HZS3C3 [EK,EOH]
D204	ED-307572	D SILICON H 1SS131
D205	ED-307572	D SILICON H 1SS131
D206	ED-307572	D SILICON H 1SS131
D207	ED-307572	D SILICON H 1SS131
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D210	ED-389686J	D ZENER H HZS2C2
D211	ED-400166J	D ZENER H HZS3B2
D212	ED-307572	D SILICON H 1SS131
D213	ED-307572	D SILICON H 1SS131 [EK,EOH]
D214	ED-387919J	D ZENER H HZS6A1L [EK,EOH]
D300	ED-307572	D SILICON H 1SS131
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-307572	D SILICON H 1SS131
D304	ED-387919J	D ZENER H HZS6A1L
D305	ED-387919J	D ZENER H HZS6A1L
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D403	ED-387763J	D ZENER H HZS7B3L
D404	ED-388368J	D ZENER H HZS9B3L
D405	ED-307572	D SILICON H 1SS131
D406	ED-307572	D SILICON H 1SS131
D407	ED-307572	D SILICON H 1SS131
D408	ED-307572	D SILICON H 1SS131
D409	ED-307572	D SILICON H 1SS131
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D413	ED-307572	D SILICON H 1SS131
D414	ED-307572	D SILICON H 1SS131
D415	ED-307572	D SILICON H 1SS131
D416	ED-511907	D SILICON 1N4002 100/1.0A
D417	ED-511907	D SILICON 1N4002 100/1.0A
D501	ED-307572	D SILICON H 1SS131
FL200	EO-408440J	COIL OSC 1 125-8020-41 70.0KHZ
FL300	EH-394984J	FILTER LC BP SFB41743
FR200	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J
FR401	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
IB300	EH-378541J	COMP R RGL3X 473J
IB301	EH-378541J	COMP R RGL3X 473J

Ref.No.	Part No.	Description
IB302	EH-378541J	COMP R RGL3X 473J
IC1	EI-390053J	IC LA7910 [EOG,EOH]
IC2	EI-389622J	IC L5631
IC200	EI-388360J	IC BA7765AS
IC300	EI-394983J	IC BA7703K1
IC301	EI-364896	IC BA6138
IC401	EI-404505J	IC MN675201 XDH JTASYP1
IC402	EI-403233J	IC LB1641
IC403	EI-400756J	IC NJM4558L-B
IC404	EI-373981J1	IC BA10393N
IC405	EI-373955	IC S-8053ALR
IC406	EI-405224J	IC ST24C02
IC501	EI-405722J	IC UPD6450CX-515
IC502	EI-403469J	IC MM1068XS
IF1A	BV-408937J	VIF UNIT JTX EK [EK]
IF1B	BV-408938J	VIF UNIT JTX EOG [EOG,EOH-D(V)]
IF1C	BV-408940J	VIF UNIT JTX EOH [EOH-D(E)]
IF1D	BV-408941J	VIF UNIT JTX EOH [EOH-DN/N]
MD1A	BV-390051J	RF CONVERTER ENC-87976 EK [EK]
MD1B	BV-403409J	RF CONVERTER MDLK6D755A EO [EOG,EOH]
L2	EO-351869	COIL FIX 1 LAP02 F05 820K [EOG,EOH]
L200	EO-354600	COIL FIX 1 LAP02 F05 101K
L201	EO-390717J	COIL FIX 1 LHL06TB T05 103J
L202	EO-351866	COIL FIX 1 LAP02 F05 330K
L203	EO-354600	COIL FIX 1 LAP02 F05 101K
L300	EO-354600	COIL FIX 1 LAP02 F05 101K
L301	EO-354600	COIL FIX 1 LAP02 F05 101K
L302	EO-354600	COIL FIX 1 LAP02 F05 101K
L401	EO-381196J	COIL FIX 1 EL0405SKI 470K
L402	*EO-345881	COIL FIX 1 EL0606SKI 101J
L403	EO-354600	COIL FIX 1 LAP02 F05 101K
L404	EO-354600	COIL FIX 1 LAP02 F05 101K
L405	EO-388087J	COIL FIX 1 LF-5.0S F05 331K
L406	EO-354600	COIL FIX 1 LAP02 F05 101K
L501	EO-345876	COIL FIX 1 EL0606SKI 470J
L502	EO-351866	COIL FIX 1 LAP02 F05 330K
L503	EO-345881	COIL FIX 1 EL0606SKI 101J
L504	EO-351866	COIL FIX 1 LAP02 F05 330K
L505	EO-345881	COIL FIX 1 EL0606SKI 101J
L506	EO-345881	COIL FIX 1 EL0606SKI 101J
R449	*ER-403405J	R OMF H S12 FS 1W R75J
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-397160J	TR 2SC3330 R,S,T,U,V
TR3	ET-353899	TR 2SA1317 S,T,U [EK,EOG]
TR4	ET-356236	TR FET 2SK363 GR,BL [EOH]
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V [EOH]
TR6	ET-375986	TR DTC124TS
TR7	ET-370310	TR DTC144TS [EOH]
TR9	ET-375777	TR 2SC2926S P,Q
TR10	ET-388338J	TR 2SB1425 S,E
TR11	*ET-405622J	TR 2SD2061 E,F
TR13	ET-397160J	TR 2SC3330 R,S,T,U,V
TR14	ET-397160J	TR 2SC3330 R,S,T,U,V
TR15	ET-353899	TR 2SA1317 S,T,U
TR18	ET-388338J	TR 2SB1425 S,E
TR19	ET-354414	TR DTC144ES
TR20	ET-364040	TR UN421D
TR21	ET-354414	TR DTC144ES
TR23	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG,EOH]
TR24	ET-397160J	TR 2SC3330 R,S,T,U,V
TR70	*ET-366168	TR 2SD1292 Q,R
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-356336	TR DTA114ES
TR200	ET-366168	TR 2SD1292 Q,R
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V [EK,EOH]

Ref.No.	Part No.	Description
TR204	ET-354414	TR DTC144ES [EK,EOH]
TR205	ET-360399	TR DTC114TS [EK,EOH-DN/N]
TR207	*ET-353899	TR 2SA1317 S,T,U
TR208	ET-364040	TR UN421D
TR209	ET-397160J	TR 2SC3330 R,S,T,U,V
TR210	ET-356336	TR DTA114ES
TR211	ET-397160J	TR 2SC3330 R,S,T,U,V
TR212	ET-397160J	TR 2SC3330 R,S,T,U,V
TR213	ET-354414	TR DTC144ES [EK,EOH]
TR214	ET-354414	TR DTC144ES
TR300	ET-397160J	TR 2SC3330 R,S,T,U,V
TR301	ET-353899	TR 2SA1317 S,T,U
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-360399	TR DTC114TS
TR305	ET-360399	TR DTC114TS
TR306	ET-356336	TR DTA114ES
TR307	ET-353897	TR DTC114ES
TR308	ET-353897	TR DTC114ES
TR309	ET-363953	TR DTA114TS
TR312	ET-353897	TR DTC114ES
TR401	ET-354414	TR DTC144ES
TR402	ET-354414	TR DTC144ES
TR403	ET-397160J	TR 2SC3330 R,S,T,U,V
TR404	ET-354414	TR DTC144ES
TR405	ET-388338J	TR 2SB1425 S,E
TR407	ET-354414	TR DTC144ES
TR408	ET-373985	TR DTA144TS
TR409	ET-373985	TR DTA144TS
TR410	ET-373985	TR DTA144TS
TR411	ET-354414	TR DTC144ES
TR501	ET-356336	TR DTA114ES [EOG,EOH]
TR502	ET-356336	TR DTA114ES [EOG,EOH]
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR504	ET-354414	TR DTC144ES
TR505	ET-353899	TR 2SA1317 S,T,U
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG,EOH]
TR507	ET-354414	TR DTC144ES [EOG,EOH]
TR508	ET-353899	TR 2SA1317 S,T,U
TR509	ET-353899	TR 2SA1317 S,T,U
TR510	ET-353899	TR 2SA1317 S,T,U
TU1A	EE-387607J1	TV TUNER TERB1-008B EK [EK]
TU1B	EE-387604J2	TV TUNER TERE1-007C EOG [EOG]
TU1C	EE-390143J2	TV TUNER TERE3-001C EOH [EOH-D(E),EOH-D/DN/N]
TU1D	EE-389626J1	TV TUNER TERE3-003B FTZ.EOH [EOH-D(V)]
VC501	EC-394757J	C S-FIX H T05 VCT51F 5.5-30
VR200	EV-404295J	R S-FIX H T05 KVSF637T 0.1W104
VR201	EV-404299J	R S-FIX H T05 KVSF637T 0.1W332
VR300	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR301	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR302	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
VR303	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR304	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
VR305	EV-404297J	R S-FIX H T05 KVSF637T 0.1W153
VR306	EV-404297J	R S-FIX H T05 KVSF637T 0.1W153
VR401	EV-405665J	R S-FIX H T05 KVSF637T 0.1W333
X401	EI-389640J	OSC X'TAL HC-49/U 8000KHZ
X501	EI-389974J	OSC X'TAL HC-49/U 17.734475MHZ
X502	EI-403467J	OSC CE CSB500F40 15.680KHZ

## 7. VIDEO P.C BOARD

Ref.No.	Part No.	Description
D601	ED-366443	D SILICON H MA700FA5 F10
D602	ED-307572	D SILICON H 1SS131
D603	ED-307572	D SILICON H 1SS131
D604	ED-307572	D SILICON H 1SS131
D605	ED-307572	D SILICON H 1SS131
D606	ED-307572	D SILICON H 1SS131
D607	ED-307572	D SILICON H 1SS131
D608	ED-307572	D SILICON H 1SS131
D609	ED-307572	D SILICON H 1SS131
D610	ED-307572	D SILICON H 1SS131
D611	ED-307572	D SILICON H 1SS131
D701	ED-307572	D SILICON H 1SS131
D702	ED-307572	D SILICON H 1SS131
D703	ED-307572	D SILICON H 1SS131
D704	ED-307572	D SILICON H 1SS131
D790	ED-378530J	D ZENER H HZS6B2L
D801	ED-307572	D SILICON H 1SS131
D802	ED-307572	D SILICON H 1SS131
D881	ED-307572	D SILICON H 1SS131
D882	ED-307572	D SILICON H 1SS131
DL800	EH-400747J	DL ADL-FE2249Q
FL600	EH-402170J	FILTER LC LP SEL-5065
FL770	EH-394858J	FILTER LC LP MYV-2V2
FL800	EH-364045	FILTER LC FF-78P
FL870	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG]
IC600	EI-396454J	IC AN3267K
IC700	EI-394951J	IC LB1215
IC701	EI-201940	IC NJM4558S
IC770	EI-394856J	IC LC8992
IC800	EI-394839J	IC LA7332
IC870	EI-366892	IC BA7025L [EOG]
IC880	EI-373981J1	IC BA10393N
L601	EO-345880	COIL FIX 1 EL0606SKI 820J
L602	EO-410091J	COIL FIX 1 SPT0203SA T26 100J
L603	EO-410094J	COIL FIX 1 SPT0203SA T26 180J
L605	EO-354600	COIL FIX 1 LAP02 F05 101K
L606	EO-354600	COIL FIX 1 LAP02 F05 101K
L607	EO-354600	COIL FIX 1 LAP02 F05 101K
L608	EO-410103J	COIL FIX 1 SPT0203SA T26 151J
L609	EO-351868	COIL FIX 1 LAP02 F05 470K
L610	EO-354600	COIL FIX 1 LAP02 F05 101K
L701	EO-345881	COIL FIX 1 EL0606SKI 101J
L772	EO-410089J	COIL FIX 1 SPT0203SA T26 6R8J
L773	EO-345880	COIL FIX 1 EL0606SKI 820J
L774	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L801	EO-345880	COIL FIX 1 EL0606SKI 820J
L802	EO-364966	COIL FIX 1 LAP02 F05 120K [EOG,EOH]
L803	EO-388087J	COIL FIX 1 LF-5.0S F05 331K
L804	EO-381197J	COIL FIX 1 EL0405SKI 471K
L805	EO-393331J	COIL FIX 1 EL0405RA T02 390K
L806	EO-353900	COIL FIX 1 LAP02 F05 150K
L807	EO-387799J	COIL FIX 1 EL0405SKI 180K
L808	EO-345880	COIL FIX 1 EL0606SKI 820J
L809	EO-403342J	COIL FIX 1 LAP02 F05 4R7K
L810	EO-345880	COIL FIX 1 EL0606SKI 820J
L811	EO-351868	COIL FIX 1 LAP02 F05 470K
L870	EO-478181	COIL FIX 1 FL09H 153J [EOG]
L871	EO-345880	COIL FIX 1 EL0606SKI 820J [EOG]
L881	EO-351869	COIL FIX 1 LAP02 F05 820K
TR601	ET-354414	TR DTC144ES
TR602	ET-354415	TR DTA144ES
TR603	ET-354414	TR DTC144ES
TR604	ET-397160J	TR 2SC3330 R,S,T,U,V
TR605	ET-354414	TR DTC144ES
TR606	ET-353897	TR DTC114ES
TR608	ET-354415	TR DTA144ES
TR609	ET-353899	TR 2SA1317 S,T,U
TR610	ET-397160J	TR 2SC3330 R,S,T,U,V
TR611	ET-397160J	TR 2SC3330 R,S,T,U,V
TR612	ET-354371	TR DTC124ES
TR613	ET-353899	TR 2SA1317 S,T,U
TR614	ET-353899	TR 2SA1317 S,T,U
TR615	ET-354414	TR DTC144ES
TR616	ET-354414	TR DTC144ES
TR617	ET-364040	TR UN421D

Ref.No.	Part No.	Description
TR701	ET-397160J	TR 2SC3330 R,S,T,U,V
TR702	ET-397160J	TR 2SC3330 R,S,T,U,V
TR703	ET-397160J	TR 2SC3330 R,S,T,U,V
TR704	ET-397160J	TR 2SC3330 R,S,T,U,V
TR705	ET-354414	TR DTC144ES
TR706	ET-397160J	TR 2SC3330 R,S,T,U,V
TR707	ET-397160J	TR 2SC3330 R,S,T,U,V
TR708	ET-397160J	TR 2SC3330 R,S,T,U,V
TR709	ET-397160J	TR 2SC3330 R,S,T,U,V
TR710	ET-353899	TR 2SA1317 S,T,U
TR711	ET-353899	TR 2SA1317 S,T,U
TR712	ET-354414	TR DTC144ES
TR713	ET-354415	TR DTA144ES
TR771	ET-353899	TR 2SA1317 S,T,U
TR791	ET-356224	TR 2SA1286 G,H,J F05
TR800	ET-354414	TR DTC144ES [EOG,EOH]
TR801	ET-354415	TR DTA144ES [EOG,EOH]
TR802	ET-397160J	TR 2SC3330 R,S,T,U,V
TR803	ET-397160J	TR 2SC3330 R,S,T,U,V
TR804	ET-397160J	TR 2SC3330 R,S,T,U,V
TR805	ET-397160J	TR 2SC3330 R,S,T,U,V
TR806	ET-397160J	TR 2SC3330 R,S,T,U,V
TR807	ET-397160J	TR 2SC3330 R,S,T,U,V
TR809	ET-353897	TR DTC114ES
TR810	ET-353897	TR DTC114ES
TR811	ET-356336	TR DTA114ES
TR812	ET-397160J	TR 2SC3330 R,S,T,U,V
TR814	ET-353899	TR 2SA1317 S,T,U
TR815	ET-397160J	TR 2SC3330 R,S,T,U,V
TR817	ET-388338J	TR 2SB1425 S,E
TR818	ET-353899	TR 2SA1317 S,T,U
TR871	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG]
TR872	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG]
TR881	ET-397160J	TR 2SC3330 R,S,T,U,V
TR882	ET-397160J	TR 2SC3330 R,S,T,U,V
TR883	ET-353899	TR 2SA1317 S,T,U
TR884	ET-397160J	TR 2SC3330 R,S,T,U,V
VR600	EV-404300J	R S-FIX H T05 KVSF637T 0.1W472
VR601	EV-405659J	R S-FIX H T05 KVSF637T 0.1W682
VR602	EV-404299J	R S-FIX H T05 KVSF637T 0.1W332
VR603	EV-404297J	R S-FIX H T05 KVSF637T 0.1W153
VR604	EV-404297J	R S-FIX H T05 KVSF637T 0.1W153
VR770	EV-405657J	R S-FIX H T05 KVSF637T 0.1W103
X800	EI-381632J	OSC X'TAL 86686 4.433619MHZ

## 8. IN-OUT (A) BLK

Ref.No.	Part No.	Description
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
PJ1	EJ-389323J	PIN J YKB11-0180 1P
PJ2	EJ-389324J	PIN J YKB11-0178 1P
PJ3	EJ-389324J	PIN J YKB11-0178 1P
PJ4	EJ-389325J	PIN J YKB11-0179 1P
PJ5	EJ-389325J	PIN J YKB11-0179 1P
PJ8	EJ-389864J	SOCKET M1817 21P
PJ9	EJ-389864J	SOCKET M1817 21P
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-397160J	TR 2SC3330 R,S,T,U,V
1	SP-404383J	PANEL REAR JACK EK (2)

## 9. IN-OUT (B) BLK

Ref.No.	Part No.	Description
FR101	*ER-408963J	R FUSE V T05 RF25SCVTP1/4WR33K
IC101	EI-408959J	IC LA7200
IC102	EI-408959J	IC LA7200
IC103	EI-408959J	IC LA7200
IC104	EI-408961J	IC MM1031XS
IC105	EI-386468J	IC BA3308
IC106	EI-394861J	IC LVA521S-2
L102	EO-345881	COIL FIX 1 EL0606SKI 101J
L111	EO-345881	COIL FIX 1 EL0606SKI 101J
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-354415	TR DTA144ES
TR104	ET-354414	TR DTC144ES
TR105	ET-397160J	TR 2SC3330 R,S,T,U,V

## 10. CANAL PLUS (A) P.C BOARD

Ref.No.	Part No.	Description
D101	ED-388358J	D ZENER H HZS5C2
D103	ED-307572	D SILICON H 1SS131
D104	ED-307572	D SILICON H 1SS131
D105	ED-307572	D SILICON H 1SS131
D106	ED-404468J	D ZENER H HZS11C3 T26
IC101	EI-408959J	IC LA7200
IC102	EI-408959J	IC LA7200
IC103	EI-408959J	IC LA7200
IC104	EI-408959J	IC LA7200
IC105	EI-332259	IC TC4052BP
IC106	EI-408964J	IC LA7954
IC107	EI-408959J	IC LA7200
IC108	EI-408961J	IC MM1031XS
IC201	EI-386468J	IC BA3308
L101	EO-345880	COIL FIX 1 EL0606SKI 820J
L102	EO-345880	COIL FIX 1 EL0606SKI 820J
L103	EO-345880	COIL FIX 1 EL0606SKI 820J
L104	EO-345880	COIL FIX 1 EL0606SKI 820J
L105	EO-345880	COIL FIX 1 EL0606SKI 820J
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-397160J	TR 2SC3330 R,S,T,U,V
TR105	ET-397160J	TR 2SC3330 R,S,T,U,V
TR106	ET-397160J	TR 2SC3330 R,S,T,U,V
TR110	ET-397160J	TR 2SC3330 R,S,T,U,V
TR111	ET-397160J	TR 2SC3330 R,S,T,U,V
TR112	ET-353899	TR 2SA1317 S,T,U
TR115	ET-370310	TR DTC144TS
TR116	ET-370310	TR DTC144TS
TR117	ET-354414	TR DTC144ES
TR118	ET-370310	TR DTC144TS
TR119	ET-370310	TR DTC144TS
TR120	ET-397160J	TR 2SC3330 R,S,T,U,V
TR121	ET-397160J	TR 2SC3330 R,S,T,U,V
TR123	ET-354414	TR DTC144ES
TR124	ET-354414	TR DTC144ES
TR125	ET-354414	TR DTC144ES
TR126	ET-397160J	TR 2SC3330 R,S,T,U,V
TR127	ET-397160J	TR 2SC3330 R,S,T,U,V
TR128	ET-373985	TR DTA144TS
TR129	ET-373985	TR DTA144TS
TR130	ET-354414	TR DTC144ES
TR131	ET-373985	TR DTA144TS
TR132	ET-354414	TR DTC144ES
TR133	ET-354414	TR DTC144ES
TR134	ET-397160J	TR 2SC3330 R,S,T,U,V
TR135	ET-394881J	TR DTC114WS
TR136	ET-373985	TR DTA144TS
TR139	ET-397160J	TR 2SC3330 R,S,T,U,V

## 11. CANAL PLUS (B) P.C BOARD

Ref.No.	Part No.	Description
J1	EJ-389325J	PIN J YKB11-0179 1P
J2	EJ-389324J	PIN J YKB11-0178 1P
J3	EJ-389864J	SOCKET M1817 21P

Ref.No.	Part No.	Description
J4	EJ-389915J	SOCKET M1817-A 21P
J5	EJ-389323J	PIN J YKB11-0180 1P
J6	EJ-389325J	PIN J YKB11-0179 1P
J7	EJ-389324J	PIN J YKB11-0178 1P
1	SP-404384J	PANEL REAR JACK EOG-V (2)

## 12. VIF UNIT (EOG,EOH-D(E),EOH-D(V))

Ref.No.	Part No.	Description
CF1	EH-730625J	FILTER CE SAF38.9MZ70Z
CF2	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
CF4	EH-732528J	FILTER SAW SAF33.4MC70Z
IC1	EI-729997J	IC LA7575
L1	EO-725824J	COIL TRAP 6F16185A1 [EOG,EOH-D(V)]
L2	EO-725825J	COIL TRAP 6F16186A1 [EOG,EOH-D(V)]
L3	EO-391141J	COIL FIX 1 EL0405SKI R47M [EOH-D(E)]
L4	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L6	EO-388160J	COIL FIX 1 EL0405SKI 1R8K
L7	EO-714614	COIL RF 6F16115B1
L8	EO-732656J	COIL OSC 6F16403B1
L9	EO-387781J	COIL FIX 1 EL0405SKI 120K
L10	EO-381196J	COIL FIX 1 EL0405SKI 470K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-731437J	TR CHIP DTC114EK [EOG,EOH-D(V)]
Q3	ET-731437J	TR CHIP DTC114EK [EOG,EOH-D(V)]
Q6	ET-370819	TR.CHIP 2SC3052
VR1	EV-733235J	R S-FIX H VG068TLT 203
VR2	EV-733235J	R S-FIX H VG068TLT 203 [EOG,EOH-D(V)]

## 13. VIF UNIT (EK,EOH-N/DN)

Ref.No.	Part No.	Description
CF1A	EH-730625J	FILTER CE SAF38.9MZ70Z [EOH-N/DN]
CF1B	EH-714628	FILTER SAW SAF39.5MZ70Z [EK]
CF2A	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ [EOH-N/DN]
CF2B	EH-373919	FILTER CE TPS6.0MB [EK]
CF3A	EH-394948J	FILTER CE SFT5.5MA [EOH-N/DN]
CF3B	EH-725829J	FILTER CE SFT6.0MA [EK]
CF4A	EH-732524J	FILTER SAW SAF33.0MDA70Z [EOH-N/DN]
CF4B	EH-725827J	FILTER CE SAF32.9MDE70Z [EK]
IC1	EI-729997J	IC LA7575
IC2	EI-397123J	IC TA8703S
L3A	EO-391141J	COIL FIX 1 EL0405SKI R47M [EOH-N]
L3B	EO-381187J	COIL FIX 1 EL0405SKI R68M [EK]
L4	EO-381188J	COIL FIX 1 EL0405SKI 1R0K
L5A	EO-725953J	COIL SIF DET 6F16263A2 [EOH-N/DN]
L5B	EO-725954J	COIL SIF DET 6F16263A3 [EK]
L7	EO-714614	COIL RF 6F16115B1
L8	EO-732656J	COIL OSC 6F16403B1
L9	EO-387781J	COIL FIX 1 EL0405SKI 120K
L10	EO-381196J	COIL FIX 1 EL0405SKI 470K
L11	EO-714610	COIL RF 6F16113B1
Q1	ET-725820J	TR CHIP 2SC2735J
Q5	ET-713614	TR CHIP 2SA1235 E,F
Q6	ET-370819	TR.CHIP 2SC3052
VR1	EV-733235J	R S-FIX H VG068TLT 203
VR3	EV-732502J	R S-FIX H RH0636C 103

#### 14. PRE AMP P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
FL201	EO-408439J	COIL OSC 1 125-8019-31 70.0KHZ
IC1	EI-387586J	IC BA7244BS
IC2	EI-356457	IC BU4013B
IC101	EI-397285J	IC BA7740S
L1	EO-410100J	COIL FIX 1 SPT0203SA T26 560J
L2	EO-410088J	COIL FIX 1 SPT0203SA T26 5R6J
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-410090J	COIL FIX 1 SPT0203SA T26 8R2J
L5	EO-410094J	COIL FIX 1 SPT0203SA T26 180J
L6	EO-381193J	COIL FIX 1 EL0405SKI 271K
L7	EO-410102J	COIL FIX 1 SPT0203SA T26 820J
L8	EO-345881	COIL FIX 1 EL0606SKI 101J
L9	EO-410096J	COIL FIX 1 SPT0203SA T26 220J
L10	EO-345881	COIL FIX 1 EL0606SKI 101J
L11	EO-345881	COIL FIX 1 EL0606SKI 101J
L12	EO-410103J	COIL FIX 1 SPT0203SA T26 151J
L13	EO-410101J	COIL FIX 1 SPT0203SA T26 680J
L14	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L15	EO-388087J	COIL FIX 1 LF-5.0S F05 331K
L101	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L102	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L150	EO-381189J	COIL FIX 1 EL0405SKI 100K
L151	EO-410093J	COIL FIX 1 SPT0203SA T26 150J
L201	EO-390716J	COIL FIX 1 LHL06TB T05 272J
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
TH1	EX-405691J	THERMISTOR NTH5D332KA
TR1	ET-354414	TR DTC144ES
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-397160J	TR 2SC3330 R,S,T,U,V
TR7	ET-397160J	TR 2SC3330 R,S,T,U,V
TR8	ET-353897	TR DTC114ES
TR9	ET-364040	TR UN421D
TR10	ET-354414	TR DTC144ES [EOG,EOH]
TR11	ET-360399	TR DTC114TS [EOG,EOH]
TR12	ET-354364	TR DTC143TS
TR13	ET-354414	TR DTC144ES
TR14	ET-397160J	TR 2SC3330 R,S,T,U,V
TR15	ET-397160J	TR 2SC3330 R,S,T,U,V
TR16	ET-353899	TR 2SA1317 S,T,U
TR17	ET-353899	TR 2SA1317 S,T,U
TR18	ET-360399	TR DTC114TS
TR19	ET-364040	TR UN421D
TR20	ET-364040	TR UN421D
TR21	ET-360399	TR DTC114TS
TR103	ET-354414	TR DTC144ES
TR150	ET-353899	TR 2SA1317 S,T,U
TR151	ET-353899	TR 2SA1317 S,T,U
TR152	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-390157J	R S-FIX V KVSF639A 0.10W 102
VR2	EV-403919J	R S-FIX V KVSF639A 0.10W 681
WP1	EW-389317J	CORD FFC P1.25 L=180 15P

#### 15. OPERATION (1) P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131 [EK]
D3	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131 [EOG]
D6	ED-307572	D SILICON H 1SS131 [EOG]
D7	ED-307572	D SILICON H 1SS131 [EOG]
D9	ED-307572	D SILICON H 1SS131 [EK,EOH-DN/N]
D10	ED-307572	D SILICON H 1SS131 [EK]
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131 [EOG,EOH-D]
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D20	ED-307572	D SILICON H 1SS131
D21	ED-307572	D SILICON H 1SS131
FL1	EM-408445J	IND FL FV548G CHARACTER
IB1	EH-383119J	COMP R RGL4X 473J
IB2	EH-397361J	COMP R RGLD7X473J
IC1A	EI-411969J	IC M38173M6-222FP JTXOPD1 [EK]
IC1B	EI-411970J1	IC M38173M6-224FP JTXOPP2 [EOG,EOH]
L1	EO-354600	COIL FIX 1 LAP02 F05 101K
PH1	ET-408988J	DETECTOR SBX1619-52
P8	EJ-410424J	SOCKET 52030-2610 26P
PS1	EJ-404372J	SOCKET HOUSING 5062-30-10-20
PS2	EJ-404364J	SOCKET HOUSING 5062-30-10-17
SW1	ES-409007J	SW TACT HKW0606-01-500
SW2	ES-409007J	SW TACT HKW0606-01-500
SW5	ES-409007J	SW TACT HKW0606-01-500
SW6	ES-409007J	SW TACT HKW0606-01-500
SW7	ES-409007J	SW TACT HKW0606-01-500
SW8	ES-409007J	SW TACT HKW0606-01-500
SW9	ES-409007J	SW TACT HKW0606-01-500
SW10	ES-409007J	SW TACT HKW0606-01-500
SW11	ES-409007J	SW TACT HKW0606-01-500
SW12	ES-409007J	SW TACT HKW0606-01-500
SW13	ES-409007J	SW TACT HKW0606-01-500
SW14	ES-409007J	SW TACT HKW0606-01-500
TR1	ET-354414	TR DTC144ES
TR2	ET-364060	TR DTC143ES
TR3	ET-408826J	TR DTC143EL T05
TR4	ET-408826J	TR DTC143EL T05
TR5	ET-408826J	TR DTC143EL T05
TR6	ET-408826J	TR DTC143EL T05
TR7	ET-408826J	TR DTC143EL T05
TR8	ET-364060	TR DTC143ES
WP1	EW-404366J	CORD FFC P1.25 L=380 20P
WP3	EW-404367J	CORD FFC P1.25 L=120 17P
X1	EI-368825M	OSC X'TAL C-002RX 32.768KHZ
X2	EI-405327J	OSC CE CST6.00MGW 6.000MHZ

## 16. OPERATION (2) P.C BOARD

Ref.No.	Part No.	Description
D4	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-307572	D SILICON H 1SS131
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131 [EOH]
D12	ED-307572	D SILICON H 1SS131 [EK,EOH-DN/N]
D13	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D21	ED-307572	D SILICON H 1SS131
D22	ED-307572	D SILICON H 1SS131
D23	ED-307572	D SILICON H 1SS131
D24	ED-307572	D SILICON H 1SS131
P5	EJ-404365J	SOCKET 6200-267-012-800 26P
SW1	ES-409007J	SW TACT HKW0606-01-500
SW2	ES-409007J	SW TACT HKW0606-01-500
SW3	ES-409007J	SW TACT HKW0606-01-500
SW4	ES-409007J	SW TACT HKW0606-01-500
SW5	ES-409007J	SW TACT HKW0606-01-500
SW6	ES-409007J	SW TACT HKW0606-01-500
SW7	ES-409007J	SW TACT HKW0606-01-500
SW8	ES-409007J	SW TACT HKW0606-01-500
SW9	ES-391710J	SW LEAF SPPB51 01-1 NO
SW10	ES-397339J	SW SLIDE ESD-170252
SW11	ES-397339J	SW SLIDE ESD-170252 [EOG,EOH]
SW12	ES-397339J	SW SLIDE ESD-170252
SW13	ES-397339J	SW SLIDE ESD-170252 [EK,EOH-DN/N]
SW14	ES-397339J	SW SLIDE ESD-170252
TR2	ET-408827J	TR DTA114TL T05
TR4	ET-408827J	TR DTA114TL T05

## 17. FRONT P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
L1	EO-354600	COIL FIX 1 LAP02 F05 101K
PJ1	EJ-387623J	PIN J JPJ5022-01-040 1P
PJ2	EJ-396453J	PIN J JPJ5022-01-030 1P
PJ3	EJ-396452J	PIN J JPJ5022-01-020 1P
PJ4	EJ-410383J	PHONE J 2P HSJ1406-01-010 3.5
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V

## 18. VR P.C BOARD

Ref.No.	Part No.	Description
VR3	EV-401032J	VR SLIDE RS30B221J K203X2NO CL

## 19. POWER SUPPLY (1) P.C BOARD

Ref.No.	Part No.	Description
C1	EC-410495J	C EC V CUT TWSS 682M 16.0DC
C2	EC-410496J	C EC V CUT TWSS 332M 35.0DC
C3	EC-410497J	C EC V CUT TWSS 222M 25.0DC
C4	EC-410065J	C EC V T05 TWSS 330M 63.0DC
C5	EC-410498J	C EC V CUT TWSS 101M 63.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-412107J	D SILICON 1N4003 T26 200/1.0A
D6	*ED-412107J	D SILICON 1N4003 T26 200/1.0A
D7	*ED-307572	D SILICON H 1SS131
D8	*ED-412008J	D ZENER H HZS33-1L T26
D9	*ED-408719J	D ZENER H HZS4C2
D10	*ED-387762J	D ZENER H HZS36-3L
D11	*ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	*ED-307572	D SILICON H 1SS131
D15	*ED-307572	D SILICON H 1SS131
F1	*EF-601964	FUSE SEMKO T 250V 1.60A
F2	*EF-601301	FUSE SEMKO T 250V 2.00A
F3	*EF-601964	FUSE SEMKO T 250V 1.60A
FR4	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W 15R0G
IC1	*EI-400756J	IC NJM4558L-B
L1	*EO-395035J	COIL LF PLH11C-1811R2 [EOG]
L2	*EO-339907	COIL LF FKOB160MH16 1000.0UH [EOG]
TR1	*ET-373210	TR 2SB1187 E,F
TR2	*ET-405622J	TR 2SD2061 E,F
TR3	*ET-404498J	TR 2SB1306 Q,R T05
TR4	*ET-373391	TR DTC143ZS
TR5	*ET-404498J	TR 2SB1306 Q,R T05
TR6	*ET-373391	TR DTC143ZS
TR7	*ET-405622J	TR 2SD2061 E,F

## 20. POWER SUPPLY (2) P.C BOARD

Ref.No.	Part No.	Description
D16	*ED-307572	D SILICON H 1SS131
D17	*ED-307572	D SILICON H 1SS131
D18	*ED-410368J	D ZENER H HZS15-3 T26
D19	*ED-394708J	D SILICON RBA402 200/4.0A
TR8	*ET-405622J	TR 2SD2061 E,F
TR9	*ET-373025	TR 2SD1944 J1,J2,K
TR10	*ET-405622J	TR 2SD2061 E,F

## 21. NICAM P.C BOARD (EK,EOH-DN/N)

Ref.No.	Part No.	Description
D1	ED-394936J	D VARACTOR 1SV111
D2	ED-307572	D SILICON H 1SS131
D3	ED-394936J	D VARACTOR 1SV111
D4	ED-394936J	D VARACTOR 1SV111
D5	ED-404254J	D ZENER H HZS2B3 T26
D6	ED-307572	D SILICON H 1SS131
IC1	EI-408930J	IC TDA8732
IC2	EI-394937J	IC CF70124
IC3	EI-397560J	IC SAA7322GP
IC4	EI-393323J	IC M5218AL-771
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
L2	EO-384903J	COIL FIX 1 EL0405SKI 102K
L3	EO-384903J	COIL FIX 1 EL0405SKI 102K
L5	EO-345881	COIL FIX 1 EL0606SKI 101J
L6	EO-345881	COIL FIX 1 EL0606SKI 101J
L7	EO-345881	COIL FIX 1 EL0606SKI 101J
L8	EO-345881	COIL FIX 1 EL0606SKI 101J
L10	EO-345881	COIL FIX 1 EL0606SKI 101J
T1A	EH-382829J	FILTER LC BP TH316BQM-2110QDAF [EK]
T1B	EH-397511J	FILTER LC BP TH316BQKS-2982QDD [EOH-DN/N]

Ref.No.	Part No.	Description
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-370310	TR DTC144TS
TR6	ET-360399	TR DTC114TS
TR7	ET-360399	TR DTC114TS
TR8	ET-370310	TR DTC144TS
TR9	ET-373985	TR DTA144TS
TR10	ET-370310	TR DTC144TS [EOH-DN]
TR11	ET-370310	TR DTC144TS
TR12	ET-354414	TR DTC144ES
VC2	EC-397180J	C S-FIX H T05 VCT51C 3.0-10
X1A	EI-408931J	OSC X'TAL HC-49/U 13104KHZ [EK]
X1B	EI-408932J	OSC X'TAL HC-49/U 11700KHZ [EOH-DN/N]
X2	EI-408933J	OSC X'TAL HC-49/U 11648KHZ
X3	EI-403347J	OSC X'TAL NR-18-S 16.384MHZ

## 22. DN-MULTI P.C BOARD (EOH-DN ONLY)

Ref.No.	Part No.	Description
D101	ED-364032	D ZENER H HZS10B2J
FL101	EH-394947J	FILTER CE SFT5.74MA
FL102	EH-394948J	FILTER CE SFT5.5MA
FR122	*ER-331619	R FUSE H S10 ERD2FC 1/4W 39R0G
IC101	EI-394949J	IC IR3P72
L101	EO-345881	COIL FIX 1 EL0606SKI 101J
T101	EO-396464J	COIL DET 1 134-5177
T102	EO-394950J	COIL DET 1 134-5176
VR101	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR102	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR103	EV-397570J	R S-FIX H T05 RH0638C 0.1W 105
VR104	EV-404303J	R S-FIX H T05 KVSF637T 0.1W474
VR105	EV-404295J	R S-FIX H T05 KVSF637T 0.1W104
VR106	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR107	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

## 23. D-MULTI P.C BOARD (EOG,EOH-D)

Ref.No.	Part No.	Description
D1	ED-364032	D ZENER H HZS10B2J
FL1	EH-394947J	FILTER CE SFT5.74MA
FL2	EH-394948J	FILTER CE SFT5.5MA
FR22	*ER-331619	R FUSE H S10 ERD2FC 1/4W 39R0G
IC1	EI-394949J	IC IR3P72
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
T1	EO-396464J	COIL DET 1 134-5177
T2	EO-394950J	COIL DET 1 134-5176
VR1	EV-404298J	R S-FIX H T05 KVSF637T 0.1W222
VR2	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR3	EV-397570J	R S-FIX H T05 RH0638C 0.1W 105
VR4	EV-404303J	R S-FIX H T05 KVSF637T 0.1W474
VR5	EV-404295J	R S-FIX H T05 KVSF637T 0.1W104
VR6	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223
VR7	EV-405658J	R S-FIX H T05 KVSF637T 0.1W223

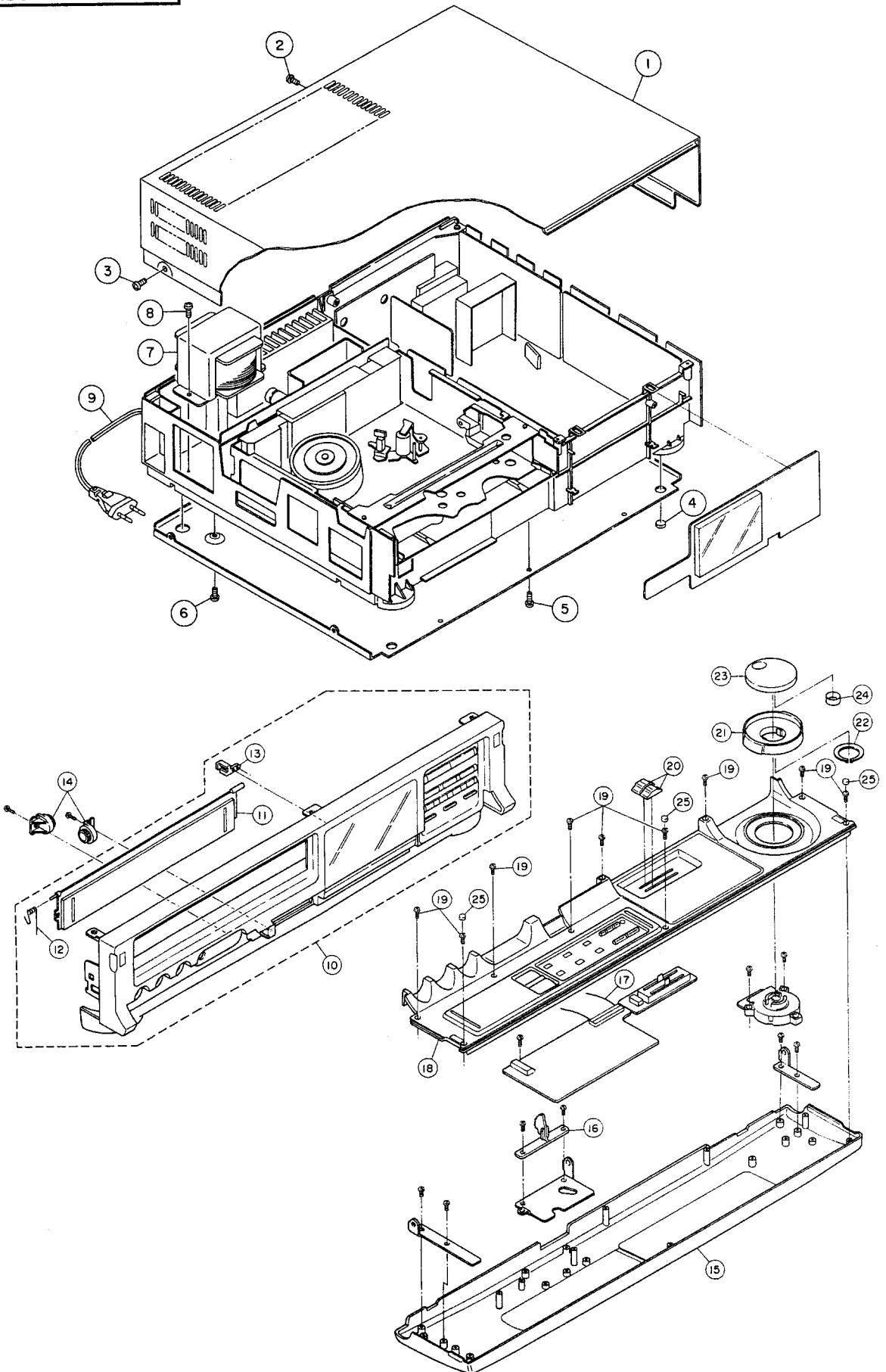
## 24. PDC/VPST P.C BOARD

Ref.No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D101	ED-307572	D SILICON H 1SS131
D201	ED-307572	D SILICON H 1SS131
FL101	EH-394684J	FILTER EMI ZBF503D-00TA T05
IB101	EH-383056J	COMP R RGL4X 103J
IB102	EH-386637J	COMP R RGL8X 103J
IC101	EI-408432J	IC UPD75218CW-012 JXVPT1
IC102	EI-410265J	IC ST24C04
IC103	EI-405224J	IC ST24C02
IC104	EI-408434J	IC MV1815-1BA
IC105	EI-410125J	IC V53C464AP-80
IC106	EI-401050J	IC LVA523SA2
IC107	EI-394680J	IC AN3171K
IC108	EI-387019J	IC MC1377P
IC301	EI-385958J	IC SAA4700 [EOG]
L1	EO-345865	COIL FIX 1 EL0606SKI 100J
L101	EO-345865	COIL FIX 1 EL0606SKI 100J
L102	EO-345865	COIL FIX 1 EL0606SKI 100J
L121	EO-345865	COIL FIX 1 EL0606SKI 100J
L151	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L152	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L153	EO-345994	COIL FIX 1 EL0606RA T05 820J
L154	EO-410099J	COIL FIX 1 SPT0203SA T26 470J
L155	EO-345865	COIL FIX 1 EL0606SKI 100J
L201	EO-345865	COIL FIX 1 EL0606SKI 100J
L202	EO-345865	COIL FIX 1 EL0606SKI 100J
L203	EO-345989	COIL FIX 1 EL0606RA T05 390J
L204	EO-345873	COIL FIX 1 EL0606SKI 270J
L206	EO-345871	COIL FIX 1 EL0606SKI 180J
L207	EO-345874	COIL FIX 1 EL0606SKI 330J
L208	EO-345874	COIL FIX 1 EL0606SKI 330J
L251	EO-345865	COIL FIX 1 EL0606SKI 100J
L301	EO-345865	COIL FIX 1 EL0606SKI 100J
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-388338J	TR 2SB1425 S,E
TR3	ET-354414	TR DTC144ES
TR101	ET-354415	TR DTA144ES
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-364060	TR DTC143ES [EOG]
TR104	ET-354414	TR DTC144ES [EOG]
TR105	ET-388338J	TR 2SB1425 S,E [EOG]
TR151	ET-397160J	TR 2SC3330 R,S,T,U,V
TR152	ET-353899	TR 2SA1317 S,T,U
TR153	ET-353899	TR 2SA1317 S,T,U
TR154	ET-397160J	TR 2SC3330 R,S,T,U,V
TR155	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR204	ET-353899	TR 2SA1317 S,T,U
TR208	ET-353899	TR 2SA1317 S,T,U
TR251	ET-397160J	TR 2SC3330 R,S,T,U,V
TR252	ET-353899	TR 2SA1317 S,T,U
TR253	ET-353899	TR 2SA1317 S,T,U
X101	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X102	EI-408433J	OSC X'TAL HC-43/U 27750KHZ
X103	EI-394673J	OSC X'TAL HC-49/U 8867.238KHZ

## 25. JOG SHUTTLE P.C BOARD

Ref.No.	Part No.	Description
SW3	ES-409005J	SW ROTARY ENCODER SRGPPJ-1

**FINAL ASSEMBLY BLOCK**



**PARTS LIST**



## 26. FINAL ASSEMBLY

Ref.No.	Part No.	Description
1	SP-409486J	COVER UPPER (JT)
2	ZS-365702	PLX BID30X10STL BNI
3	ZS-361507	DT BID30X06STL BNI
4	SA-395476J	FOOT FRONT
5	ZS-362378	PLX BID30X10STL CMT
6	ZS-358936	ST BID30X06STL CMT
7A	*BT-408920J	TRANS POW V1154 EA [EK]
7B	*BT-408921J	TRANS POW V1154 EOG [EOG]
7C	*BT-408922J	TRANS POW V1154 EOH [EOH]
8	ZS-373962	PLX BID40X10STL CMT
9A	*EW-404001M	AC CORD 200 VCTFK WITH TUBE B [EK]
9B	*EW-404002M	AC CORD 200 SE-1 WITH TUBE E [EOG,EOH]
10A	BD-409401J	PANEL FRONT E1 PART [EK,EOH]
10B	BD-409402J	PANEL FRONT G1 PART [EOG]
11A	SE-409419J	MASK CASSETTE (D) E3 [EK,EOH]
11B	SE-409425J	MASK CASSETTE (D) G5 [EOG]
12	ZG-395386J	SP MASK (2)
13	SZ-409420J	STOPPER MASK (3)
14	SZ-409014J	DAMPER 3F96-F
15A	SP-409433J	DOOR (A) F1000 E PART [EK]
15B	SP-409439J	DOOR (A) F1000 G PART [EOG]
15C	SP-409427J	DOOR (A) F1010 E1 PART [EOH-D]
Q5D	SP-409435J	DOOR (A) F1010 E2 PART [EOH-N]
15E	SP-409437J	DOOR (A) F1030 E PART [EOH-DN]
16	SZ-409447J	GEAR DAMPER
17	EW-409012J	CORD FFC P1.00 L=100 26P
18A	SP-409456J	DOOR (C) E2 PART [EK]
18B	SP-409467J	DOOR (C) G1 PART [EOG]
18C	SP-409460J	DOOR (C) E3 PART [EOH-D]
18D	SP-409462J	DOOR (C) E4 PART [EOH-N]
18E	SP-409464J	DOOR (C) E5 PART [EOH-DN]
19	ZS-409503J	BT BID20X08STL BZN
20	SK-395423J	KNOB VOL (1)
21	SK-409478J	KNOB SHUTTLE
22	SZ-408436J	RING C S-19
23	SK-409479J	KNOB JOG
24	SZ-408435J	COMPRESSION RING 10193
25	SZ-409480J	STOPPER DOOR

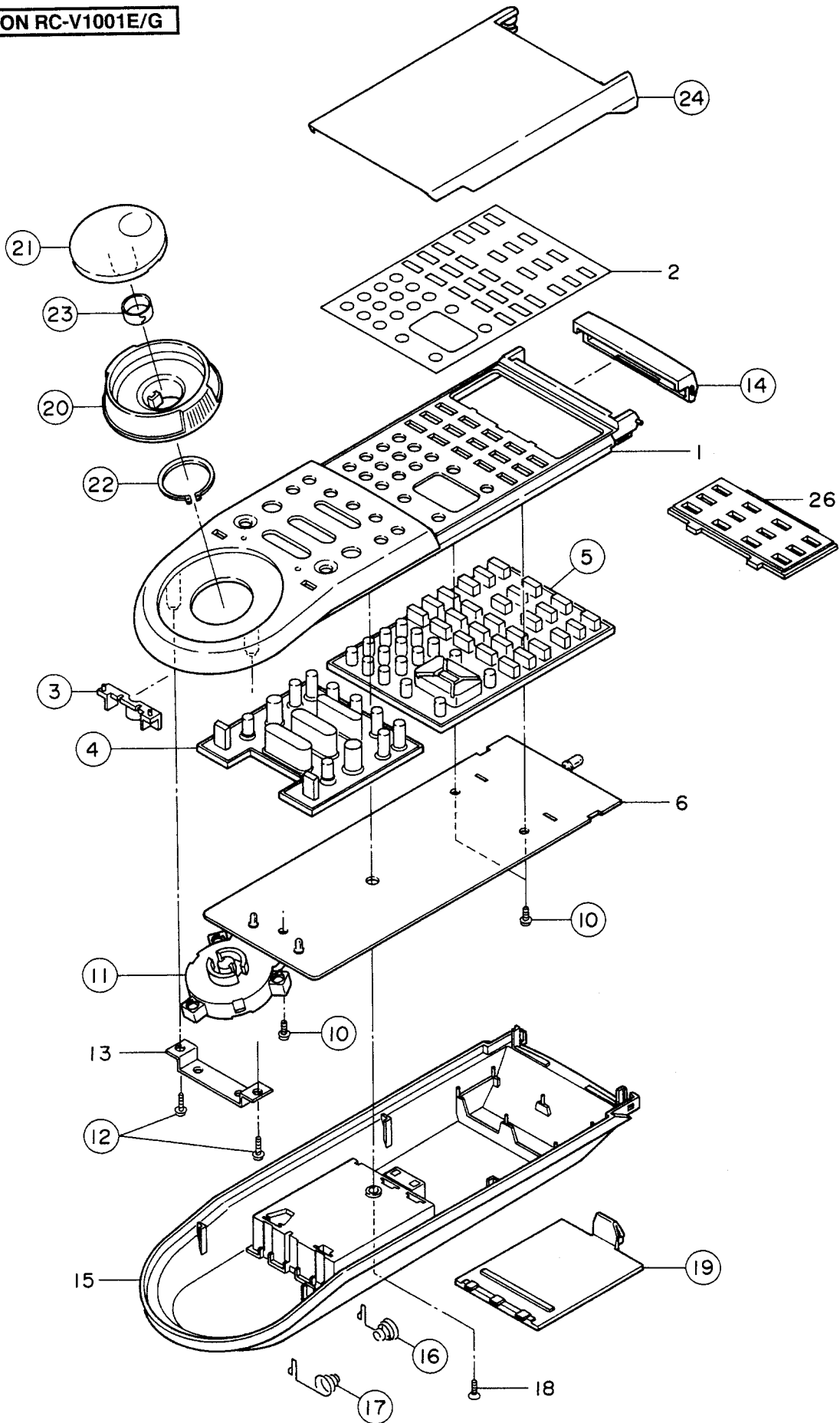
### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

## 27. ACCESSARY

Ref.No.	Part No.	Description
1	EW-348414	CORD PAL
2A	AV-B1040A010G	REMOCON BLK RC-V1001E [EK]
2B	AV-B1040A010H	REMOCON BLK RC-V1001G [EOG]
2C	AV-B1043A010G	REMOCON BLK RC-V1002E [EOH]

REMOCON RC-V1001E/G



PARTS LIST

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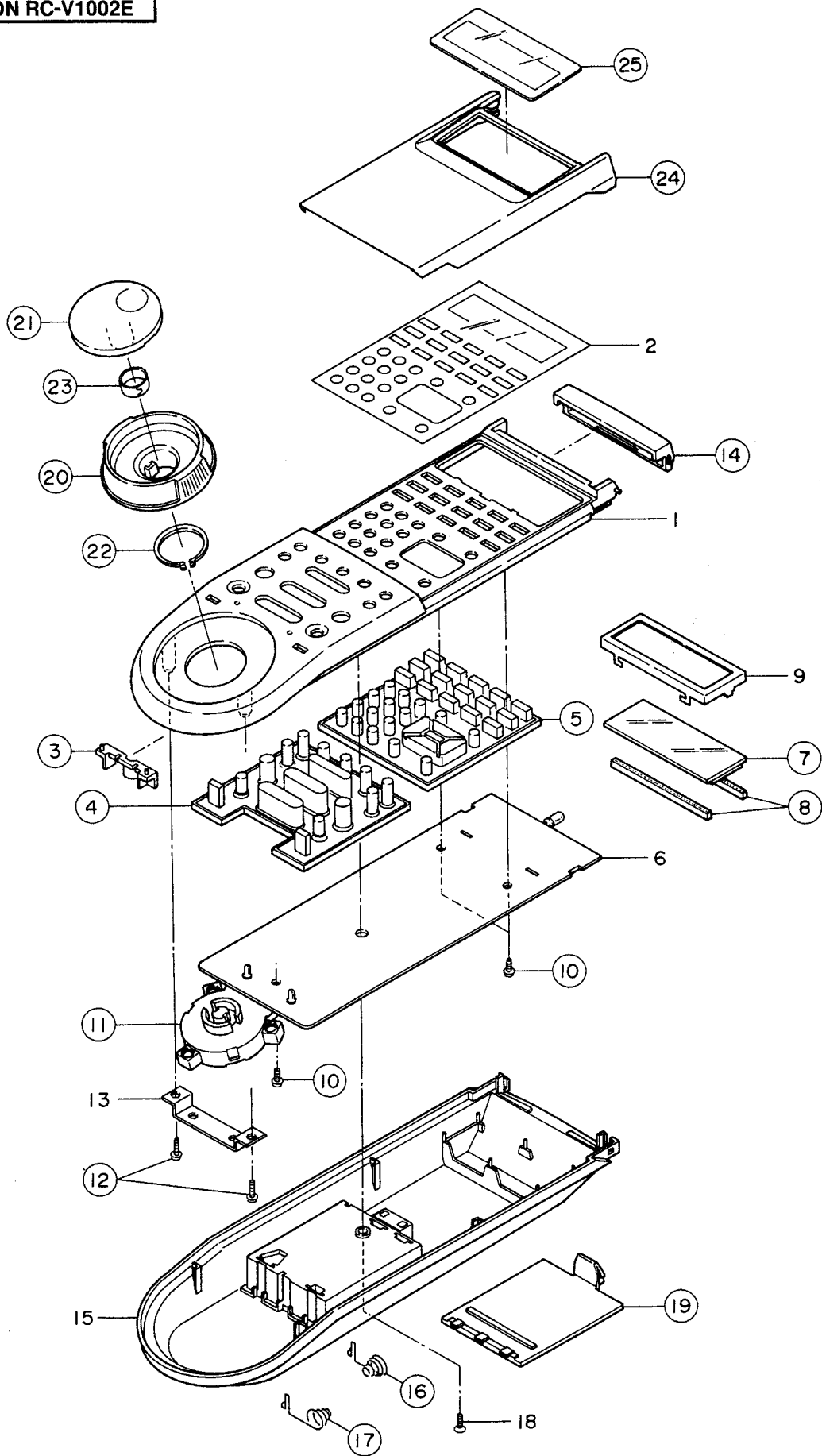
## 28. REMOCON RC-V1001E/V1001G

Ref.No.	Part No.	Description
3	SE-407612J	LENS (V)
4	MB-407645J	KEY RUBBER (V1)
5	MB-407622J	KEY RUBBER (V2)-A
10	ZS-374389	PT BID20X06STL BNI
11	ES-408428J	SW ROTARY ENCODER SRGPPJ
12	ZS-336614	PT PAN26X08STL CMT
14	SE-407625J	FILTER (V)
16	ZG-407614J	TERMINAL BATTERY (V3)
17	ZG-407615J	TERMINAL BATTERY (V4)
19	SC-407627J	COVER BATTERY (V)
20	SK-407713J	KNOB RING-R
21	SK-407708J	KNOB JOG
22	SZ-408436J	RING C S-19
23	SZ-408435J	COMPRESSION RING 10193
24A	SP-407635J	DOOR PANEL (V)-1001E [RC-V1001E]
24B	SP-407634J	DOOR PANEL (V)-1001G [RC-V1001G]

## 29. REMOCON P.C BOARD RC-V1001

Ref.No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
D2	ED-397391J	D LED BR3668S RED
D3	ED-397391J	D LED BR3668S RED
IC1	EI-408449J	IC UPD75004GB-771 JXVPTR1 QF
IC2	EI-400672J	IC S-8052ALB-LE
TR1	ET-405342J	TR.CHIP 2SD1620
X1	EI-408450J	OSC CE CST2.45MGW 2.450MHZ
1	ZG-407616J	TERMINAL BATTERY (V1)
2	ZG-407617J	TERMINAL BATTERY (V2)

**REMOCON RC-V1002E**



**PARTS LIST**

### 30. REMOCON RC-V1002E

Ref.No.	Part No.	Description
3	SE-407612J	LENS (V)
4	MB-407645J	KEY RUBBER (V1)
5	MB-407618J	KEY RUBBER (W)-A
7	EM-408437J	IND LCD LD-B5444A ENGLISH
8	EJ-408427J	CONNECTOR LCD (4) B1043
10	ZS-374389	PT BID20X06STL BNI
11	ES-408428J	SW ROTARY ENCODER SRGPPJ
12	ZS-336614	PT PAN26X08STL CMT
14	SE-407625J	FILTER (V)
16	ZG-407614J	TERMINAL BATTERY (V3)
17	ZG-407615J	TERMINAL BATTERY (V4)
19	SC-407627J	COVER BATTERY (V)
20	SK-407713J	KNOB RING-R
21	SK-407708J	KNOB JOG
22	SZ-408436J	RING C S-19
23	SZ-408435J	COMPRESSION RING 10193
24	SP-407642J	DOOR PANEL (W)-1002E
25	SE-407613J	WINDOW DOOR (W)

### 31. REMOCON P.C BOARD RC-V1002

Ref.No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
D2	ED-397391J	D LED BR3668S RED
D3	ED-397391J	D LED BR3668S RED
D4	ED-386031J	D SILICON CHIP MA110-TW
D5	ED-386031J	D SILICON CHIP MA110-TW
D6	ED-386031J	D SILICON CHIP MA110-TW
D7	ED-386031J	D SILICON CHIP MA110-TW
D8	ED-386031J	D SILICON CHIP MA110-TW
D9	ED-386031J	D SILICON CHIP MA110-TW
D10	ED-386031J	D SILICON CHIP MA110-TW
D11	ED-386031J	D SILICON CHIP MA110-TW
IC1	EI-408408J1	IC M50933-128FP JXLCDR2
IC2	EI-400672J	IC S-8052ALB-LE
SW1	ES-393431J	SW TACT CHIP SKHUAB T12E
TR1	ET-405342J	TR.CHIP 2SD1620
X1	EI-368825M	OSC X'TAL C-002RX 32.768KHZ
X2	EI-403451J	OSC CE CSB1200J 1.200MHZ
1	ZG-407616J	TERMINAL BATTERY (V1)
2	ZG-407617J	TERMINAL BATTERY (V2)

# INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AVB1040A010G	27-2A	ED307572	6-D18	ED307572	16-D4	ED403450J	31-D1
AVB1040A010H	27-2B	ED307572	6-D19	ED307572	16-D6	ED403743J	6-D110
AVB1043A010G	27-2C	ED307572	6-D200	ED307572	16-D7	ED404254J	21-D5
BAV1154A500A	5-5A	ED307572	6-D204	ED307572	16-D9	ED404388J	6-D107
BAV1154A500B	5-5B	ED307572	6-D205	ED307572	16-D10	ED404468J	10-D106
BAV1154A600A	5-1A	ED307572	6-D206	ED307572	16-D12	ED408719J	19-D9
BAV1154A600B	5-1B	ED307572	6-D207	ED307572	16-D13	ED408830J	20-D17
BAV1154A600D	5-1C	ED307572	6-D208	ED307572	16-D15	ED408943J	6-D14
BAV1154A600E	5-1D	ED307572	6-D209	ED307572	16-D16	ED412008J	19-D8
BAV1154A600F	5-1E	ED307572	6-D212	ED307572	16-D17	ED511907	6-D416
BAV1154A600H	5-1F	ED307572	6-D213	ED307572	16-D18	ED511907	6-D417
BAV1154A610A	5-2A	ED307572	6-D300	ED307572	16-D19	ED511907	19-D1
BAV1154A610B	5-2B	ED307572	6-D301	ED307572	16-D21	ED511907	19-D2
BAV1154A620A	5-3A	ED307572	6-D302	ED307572	16-D22	ED511907	19-D3
BAV1154A620B	5-3B	ED307572	6-D303	ED307572	16-D23	ED511907	19-D4
BAV1154A620D	5-3C	ED307572	6-D401	ED307572	16-D24	ED511907	19-D5
BAV1154A620E	5-3D	ED307572	6-D402	ED307572	17-D1	ED511907	19-D6
BAV1154A630A	5-4A	ED307572	6-D405	ED307572	17-D2	ED511907	20-D16
BAV1154A630B	5-4B	ED307572	6-D406	ED307572	19-D7	EE387604J2	6-TU1B
BAV1154A630D	5-4C	ED307572	6-D407	ED307572	19-D11	EE387607J1	6-TU1A
BAV1154A630E	5-4D	ED307572	6-D408	ED307572	19-D13	EE389626J1	6-TU1D
BAV1154A650A	5-6A	ED307572	6-D409	ED307572	19-D14	EE390143J2	6-TU1C
BAV1154A650B	5-6C	ED307572	6-D410	ED307572	21-D2	EF601301	19-F2
BAV1154A650C	5-6B	ED307572	6-D411	ED307572	21-D6	EF601964	19-F1
BAV1154A660A	5-7	ED307572	6-D412	ED307572	24-D1	EF601964	19-F3
BAV1154A690A	5-9	ED307572	6-D413	ED307572	24-D101	EH364045	7-FL800
BAV1154A720A	5-8A	ED307572	6-D414	ED307572	24-D201	EH366894	7-FL870
BAV1154A720C	5-8B	ED307572	6-D415	ED364032	22-D101	EH368948	12-CF2
BBV1130A020F	3-70	ED307572	6-D501	ED364032	23-D1	EH368948	13-CF2A
BD409401J	26-10A	ED307572	7-D602	ED366443	7-D601	EH373919	13-CF2B
BD409402J	26-10B	ED307572	7-D603	ED367502	6-D6	EH378541J	6-IB300
BLV1102A140A	3-43	ED307572	7-D604	ED378530J	7-D790	EH378541J	6-IB301
BLV1123A050A	3-23	ED307572	7-D605	ED386031J	31-D4	EH378541J	6-IB302
BL387458J2	4-37	ED307572	7-D606	ED386031J	31-D5	EH382829J	21-T1A
BM387503J	4-31	ED307572	7-D607	ED386031J	31-D6	EH383056J	24-IB101
BM400682J1	4-9	ED307572	7-D608	ED386031J	31-D7	EH383119J	15-IB1
BM401296J1	2-8	ED307572	7-D609	ED386031J	31-D8	EH386637J	24-IB102
BT408920J	26-7A	ED307572	7-D610	ED386031J	31-D9	EH394684J	24-FL101
BT408921J	26-7B	ED307572	7-D611	ED386031J	31-D10	EH394858J	7-FL770
BT408922J	26-7C	ED307572	7-D701	ED386031J	31-D11	EH394947J	22-FL101
BVV1102A070A	3-35	ED307572	7-D702	ED387762J	19-D10	EH394947J	23-FL1
BVV1102A080A	3-36	ED307572	7-D703	ED387763J	6-D403	EH394948J	13-CF3A
BVV1102A150A	3-48	ED307572	7-D704	ED387765J	6-D12	EH394948J	22-FL102
BVV1123A410E	2-1	ED307572	7-D801	ED387783J	6-D108	EH394948J	23-FL2
BVV1123A420F	2-2	ED307572	7-D802	ED387919J	6-D16	EH394984J	6-FL300
BV390051J	6-MD1A	ED307572	7-D881	ED387919J	6-D101	EH397361J	15-IB2
BV403409J	6-MD1B	ED307572	7-D882	ED387919J	6-D214	EH397511J	21-T1B
BV408937J	6-IF1A	ED307572	10-D103	ED387919J	6-D304	EH400747J	7-DL800
BV408938J	6-IF1B	ED307572	10-D104	ED387919J	6-D305	EH402170J	7-FL600
BV408940J	6-IF1C	ED307572	10-D105	ED388358J	10-D101	EH714628	13-CF1B
BV408941J	6-IF1D	ED307572	14-D1	ED388368J	6-D70	EH725827J	13-CF4B
EA404543J	4-12	ED307572	14-D3	ED388368J	6-D201	EH725829J	13-CF3B
EC391843J	6-C110	ED307572	14-D15	ED388368J	6-D404	EH730625J	12-CF1
EC394757J	6-VC501	ED307572	15-D1	ED389686J	6-D210	EH730625J	13-CF1A
EC397180J	21-VC2	ED307572	15-D2	ED390011J	4-13	EH732524J	13-CF4A
EC410065J	19-C4	ED307572	15-D3	ED394708J	20-D19	EH732528J	12-CF4
EC410495J	19-C1	ED307572	15-D5	ED394936J	21-D1	EI201940	7-IC701
EC410496J	19-C2	ED307572	15-D6	ED394936J	21-D3	EI332259	10-IC105
EC410497J	19-C3	ED307572	15-D7	ED394936J	21-D4	EI356457	14-IC2
EC410498J	19-C5	ED307572	15-D9	ED394968J	6-D7	EI364896	6-IC301
ED307572	6-D1	ED307572	15-D10	ED396065J	6-D112	EI366892	7-IC870
ED307572	6-D2	ED307572	15-D12	ED397391J	29-D2	EI368825M	15-X1
ED307572	6-D3	ED307572	15-D13	ED397391J	29-D3	EI368825M	31-X1
ED307572	6-D5	ED307572	15-D14	ED397391J	31-D2	EI373955	6-IC405
ED307572	6-D8	ED307572	15-D16	ED397391J	31-D3	EI373957J1	24-X101
ED307572	6-D9	ED307572	15-D17	ED397399J	6-D102	EI373981J1	6-IC404
ED307572	6-D10	ED307572	15-D18	ED397399J	6-D203	EI373981J1	7-IC880
ED307572	6-D11	ED307572	15-D19	ED400166J	6-D211	EI381632J	7-X800
ED307572	6-D13	ED307572	15-D20	ED400174J	20-D18	EI385958J	24-IC301
ED307572	6-D17	ED307572	15-D21	ED403450J	29-D1	EI386468J	9-IC105

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
EI386468J	10-IC201	EJ389324J	8-PJ2	EO345989	24-L203	EO410102J	14-L7
EI387019J	24-IC108	EJ389324J	8-PJ3	EO345994	24-L153	EO410103J	7-L608
EI387586J	14-IC1	EJ389324J	11-J2	EO351866	6-L202	EO410103J	14-L12
EI388360J	6-IC200	EJ389324J	11-J7	EO351866	6-L502	EO410104J	24-L151
EI389622J	6-IC2	EJ389325J	8-PJ4	EO351866	6-L504	EO410104J	24-L152
EI389640J	6-X401	EJ389325J	8-PJ5	EO351868	7-L609	EO478181	7-L870
EI389974J	6-X501	EJ389325J	11-J1	EO351868	7-L811	EO714610	13-L11
EI390053J	6-IC1	EJ389325J	11-J6	EO351869	6-L2	EO714614	12-L7
EI393323J	21-IC4	EJ389815J	14-PS1	EO351869	7-L881	EO714614	13-L7
EI394673J	24-X103	EJ389864J	8-PJ8	EO353900	7-L806	EO725824J	12-L1
EI394680J	24-IC107	EJ389864J	8-PJ9	EO354600	6-L200	EO725825J	12-L2
EI394839J	7-IC800	EJ389864J	11-J3	EO354600	6-L203	EO725953J	13-L5A
EI394856J	7-IC770	EJ389915J	11-J4	EO354600	6-L300	EO725954J	13-L5B
EI394861J	9-IC106	EJ396452J	17-PJ3	EO354600	6-L301	EO732656J	12-L8
EI394937J	21-IC2	EJ396453J	17-PJ2	EO354600	6-L302	EO732656J	13-L8
EI394949J	22-IC101	EJ404364J	15-PS2	EO354600	6-L403	ER328278	19-FR4
EI394949J	23-IC1	EJ404365J	16-P5	EO354600	6-L404	ER331619	22-FR122
EI394951J	7-IC700	EJ404372J	15-PS1	EO354600	6-L406	ER331619	23-FR22
EI394983J	6-IC300	EJ408427J	30-8	EO354600	7-L605	ER400729J	6-FR401
EI396454J	7-IC600	EJ410383J	17-PJ4	EO354600	7-L606	ER401039J	6-FR200
EI397123J	13-IC2	EJ410424J	15-P8	EO354600	7-L607	ER403405J	6-R449
EI397285J	14-IC101	EM408437J	30-7	EO354600	7-L610	ER408963J	9-FR101
EI397560J	21-IC3	EM408445J	15-FL1	EO354600	15-L1	ES373099	4-39
EI400672J	29-IC2	EO330244	7-L774	EO354600	17-L1	ES387465J	4-17
EI400672J	31-IC2	EO339907	19-L1	EO364966	7-L802	ES391710J	16-SW9
EI400756J	6-IC403	EO339907	19-L2	EO376600	14-L14	ES393431J	31-SW1
EI400756J	19-IC1	EO345865	24-L1	EO381187J	13-L3B	ES397339J	16-SW10
EI401050J	24-IC106	EO345865	24-L101	EO381188J	13-L4	ES397339J	16-SW11
EI403233J	6-IC402	EO345865	24-L102	EO381189J	14-L150	ES397339J	16-SW12
EI403347J	21-X3	EO345865	24-L121	EO381193J	14-L6	ES397339J	16-SW13
EI403451J	31-X2	EO345865	24-L155	EO381195J	14-L3	ES397339J	16-SW14
EI403467J	6-X502	EO345865	24-L201	EO381196J	6-L401	ES408428J	28-11
EI403469J	6-IC502	EO345865	24-L202	EO381196J	12-L10	ES408428J	30-11
EI404505J	6-IC401	EO345865	24-L251	EO381196J	13-L10	ES408470J	4-43
EI405224J	6-IC406	EO345865	24-L301	EO381197J	7-L804	ES409005J	25-SW3
EI405224J	24-IC103	EO345871	24-L206	EO384903J	21-L2	ES409007J	15-SW1
EI405327J	15-X2	EO345873	24-L204	EO384903J	21-L3	ES409007J	15-SW2
EI405722J	6-IC501	EO345874	24-L207	EO387781J	12-L9	ES409007J	15-SW5
EI408408J	31-IC1	EO345874	24-L208	EO387781J	13-L9	ES409007J	15-SW6
EI408432J	24-IC101	EO345876	6-L501	EO387799J	7-L807	ES409007J	15-SW7
EI408433J	24-X102	EO345880	7-L601	EO388087J	6-L405	ES409007J	15-SW8
EI408434J	24-IC104	EO345880	7-L773	EO388087J	7-L803	ES409007J	15-SW9
EI408449J	29-IC1	EO345880	7-L801	EO388087J	14-L15	ES409007J	15-SW10
EI408450J	29-X1	EO345880	7-L808	EO388160J	12-L6	ES409007J	15-SW11
EI408930J	21-IC1	EO345880	7-L810	EO390716J	14-L201	ES409007J	15-SW12
EI408931J	21-X1A	EO345880	7-L871	EO390717J	6-L201	ES409007J	15-SW13
EI408932J	21-X1B	EO345880	10-L101	EO391141J	12-L3	ES409007J	15-SW14
EI408933J	21-X2	EO345880	10-L102	EO391141J	13-L3A	ES409007J	16-SW1
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# MEMO

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## ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
A	Audio or Analogue	MOD	MODulator
AC	Alternating Current	MRS	Motor ReverSe
ACC	Automatic Color Control	NG	Noise Gate
A/C	Audio and Control	NICAM	Near Instantaneous Compand Audio Multiplex
ADJ	ADJust (ment)	NON-LIN	NON-LINear
AFC	Automatic Frequency Control	N.T.S.C.	National Television System Committee
AFT	Automatic Fine Tuning	OSC	OSCillator
AGC	Automatic Gain Control	PAL	Phase Alternation by Line
AH	Audio Head	PB	Play Back
AL	ALways (voltage)	PCB (P.C.B)	Printed Circuit Board
ALC	Automatic Level Control	P-COM	Phase-COMparator
A-SW.P	Audio SWitching Pulse	P DOWN	Power DOWN
A-MUTE	Audio MUTE	PG	Pulse Generator
ANT	ANTenna	P.I.P	Picture In Picture
APC	Automatic Phase Control	PL, PLG	PLunger (PLunGer)
ASSY	ASSEMBLY	PRG (PGM)	PRoGram (ProGraM)
BAL	BALance	PU	Pick UP (head, pulse)
B DOWN	Break DOWN	PWR	PoWeR
BGP	Burst Gate Pulse	Q	Quality factor
BLK	BLOCK or BLack	R	Right
BPF	Band Pass Filter	RAM	Random Access Memory
BU	Back Up (voltage)	REC	RECORD
B/W	Black and White	REF	REFerence
C	Chroma or Color	REF-V	REFerence Vertical signal
CCD	Charge Coupled Device	REG	REGulator
CCIR	Comité Consultatif International des Radio communications	REV (REVW)	REView (REView)
CH (ch)	CHannel (channel)	REW	REWind
CLK	CLock	RF	Radio Frequency
CM	Capstan Motor	ROM	Read Only Memory
CN	CoNnector	R.S SW	Record-Safety SWitch
COMP	COMParator	RST (RES)	ReSet (RESet)
CSW	Cassette SWitch	RVS	ReVerSe
CSYNC	Composite SYNC	S	Sensor, Shield
CTL	ConTrol	SAW	Surface Acoustic Wave
CUE	CUE	SC	SimulCast
DAC	Digital to Analog Converter	S CLK	Serial CLock
DC	Direct Current	SECAM	SÉquentiel Couleur À Mémoire
DEMODO	DEMODulator	S & H	Sample and Hold
DET	DETect (DETECTOR)	SLP	Super Long Play
DL	Delay Line	SP	Standard Play
DM	Drum Motor	SPD	SPeeD
DOC	Drop Out Compensator	SRP	Supply Reel Pulse
D.P.E	Drum Phase Error	SRV	SeRVo
D.PG	Drum Pulse Generator	SOW	Sync On Word
EE	Electronic to Electronic	STBY	STandBY
EF	Emitter Follower	S.VHS	Super VHS
EMPHA	EMPHAsis	SW	SWitch
ENV	ENVELOpe	SWNG	SWitchiNG
EP	Extended Play	SWP	SWitching Pulse
EP ROM	Erasable Programmable ROM	SYNC	SYNChronize
EQ	EQUALizer	T-AUDIO	Tuner AUDIO
FE	Full track Erase	TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
FF	Flip-Flop or Fast Foward	TRK	TRackiNG
FG	Frequency Generator	TRP	Take up Reel Pulse
Fig	Figure	T/U	Take Up
FLD	FLUorescent Display	TV	TeleVision
FM	Frequency Modulation	UHF	Ultra High Frequency
Fo	resonance Frequency	UNR	UNRegulated (voltage)
FREQ	FREQUENCY	V	Vertical or Video
GND	GrouND	VASS	Video Address Search System
H	Horizontal	VCO	Voltage Controlled Oscillator
HP	Horizontal (sync) pulse	VH	Video Head
HPF	High Pass Filter	VHF	Very High Frequency
HQ	High Quality System	VHS	Video Home System
IC	Integrated Circuit	VIF	Video Intermediate Frequency
ID	IDentification	VISS	Video Index Search System
IDL	IDLe (Voltage)	VJ	Video Judge
IMS	Interactive Monitor System	VM	Voltage for Memory
INS	INSert	VOB	Video On Blank
INV	INVerter	VOW	Video On Word
L	Left	VP	Vertical (sync) Pulse
LED	Light Emitting Diode	VPS	Video Program System
LIM	LIMitter	VPT	Video Programming by video Text
LM	Loading Motor	VT	Voltage for Tuning
LM STP	Loading Motor STop	WHT	WHITe
LP	Long Play	Y	Luminance
LPF	Low Pass Filter	2H	2 Hour (SP)
ME-SECAM	Middle East SECAM	4H	4 Hour (LP)
MI-COM	Micro COMputer	6H	6 Hour (SLP/EP)
MM	Mono-stayble Multi		

# AKAI

MODEL **VS-F1000**<sub>EK-VN/EOG-VD</sub>

MODEL **VS-F1010**<sub>EOH-D/EOH-N</sub>

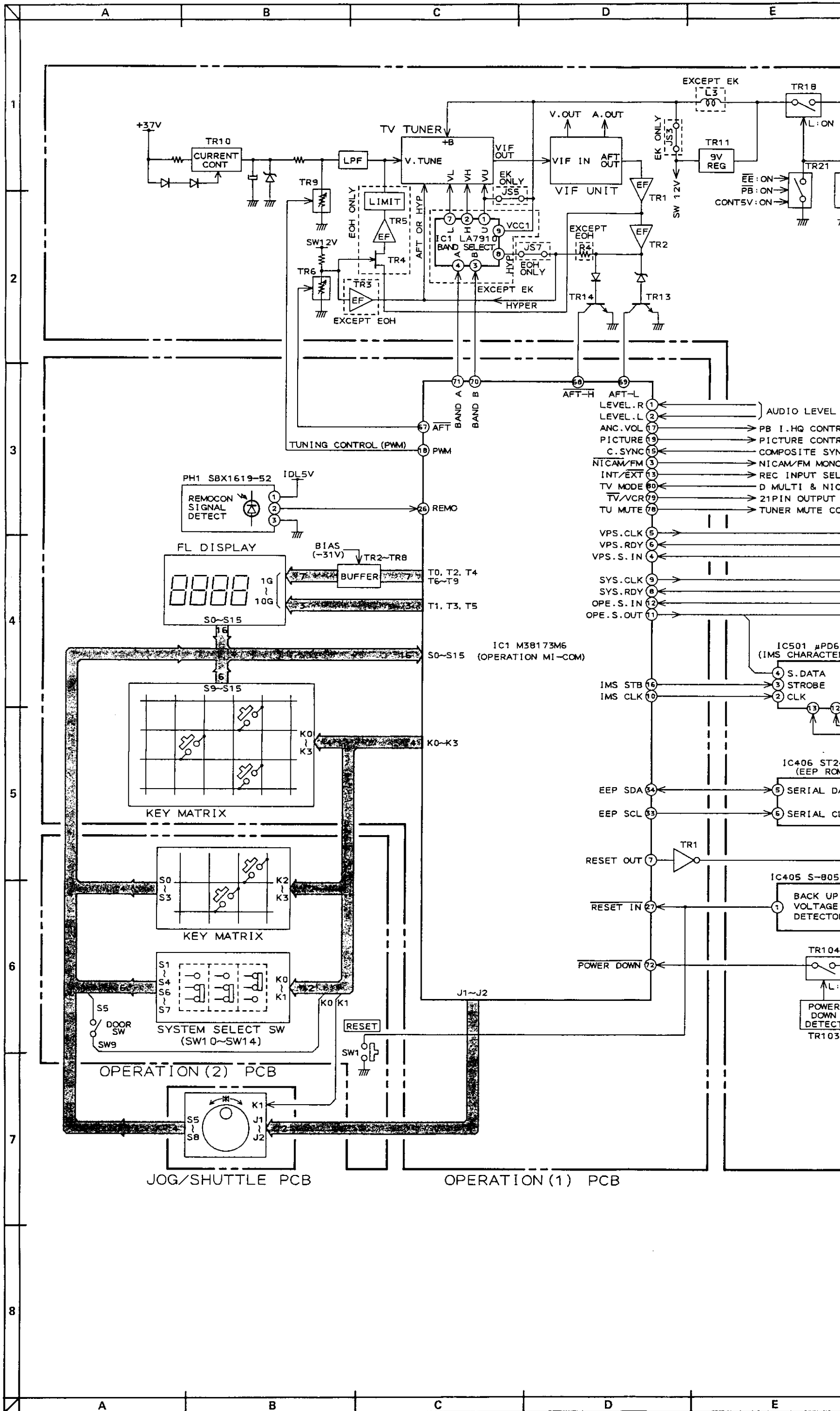
MODEL **VS-F1030**<sub>EOH-DN</sub>

## SCHEMATIC DIAGRAMS AND PC BOARDS

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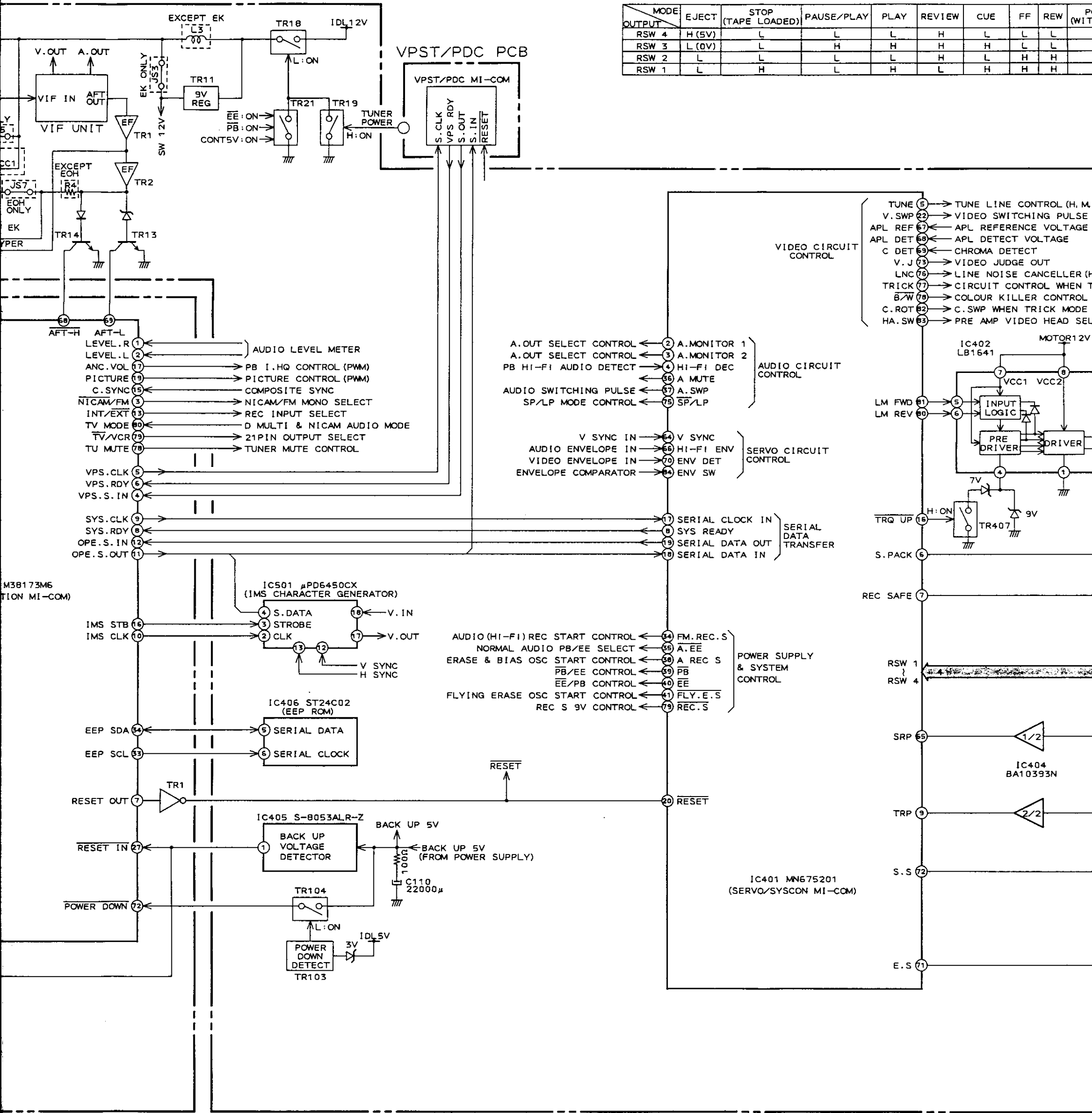
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Use these schematic diagrams and PC boards together with the provided service manual.



MODE SW TRUTH TABLE

MODE OUTPUT	EJECT	STOP (TAPE LOADED)	PAUSE/PLAY	PLAY	REVIEW	CUE	FF	REW	P (WIT)
RSW 4	H (5V)	L	L	L	H	L	L	L	
RSW 3	L (0V)	L	H	H	H	H	L	L	
RSW 2	L	L	L	L	H	L	H	H	
RSW 1	L	H	L	H	L	H	H	H	



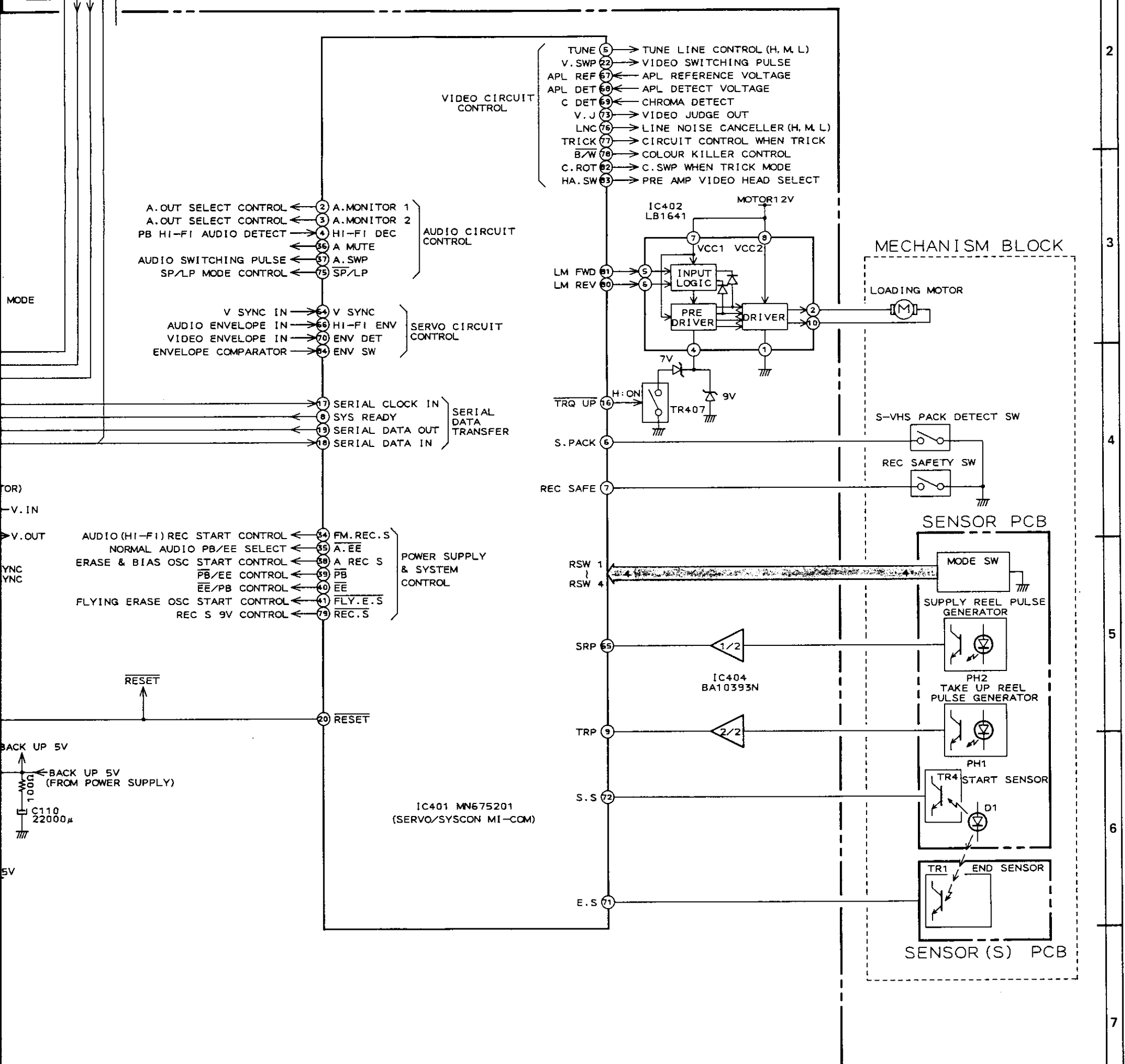
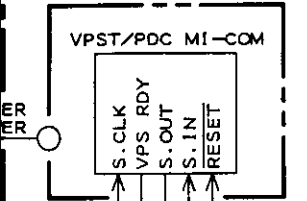
ION (1) PCB

MAIN PCB

MODE SW TRUTH TABLE

MODE OUTPUT	EJECT	STOP (TAPE LOADED)	PAUSE/PLAY	PLAY	REVIEW	CUE	FF	REW	POWER OFF (WITH CASSETTE)
RSW 4	H (5V)	L	L	L	H	L	L	L	H
RSW 3	L (0V)	L	H	H	H	H	L	L	H
RSW 2	L	L	L	L	H	L	H	H	L
RSW 1	L	H	L	H	L	H	H	H	L

VPST/PDC PCB

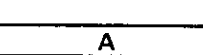
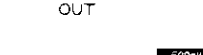
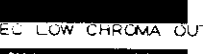
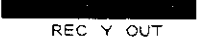
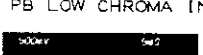
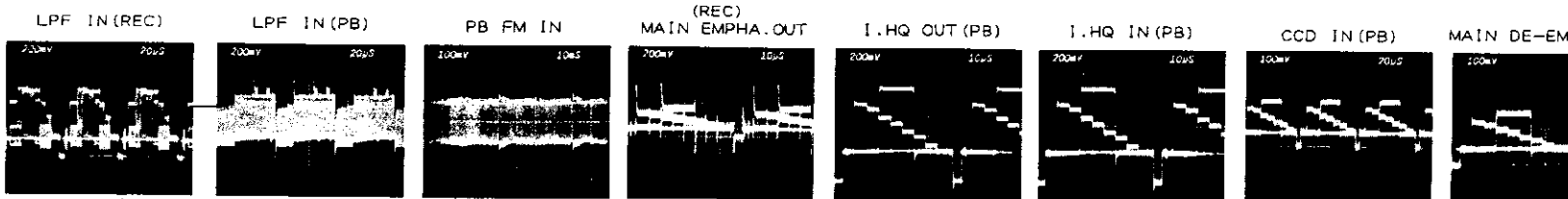
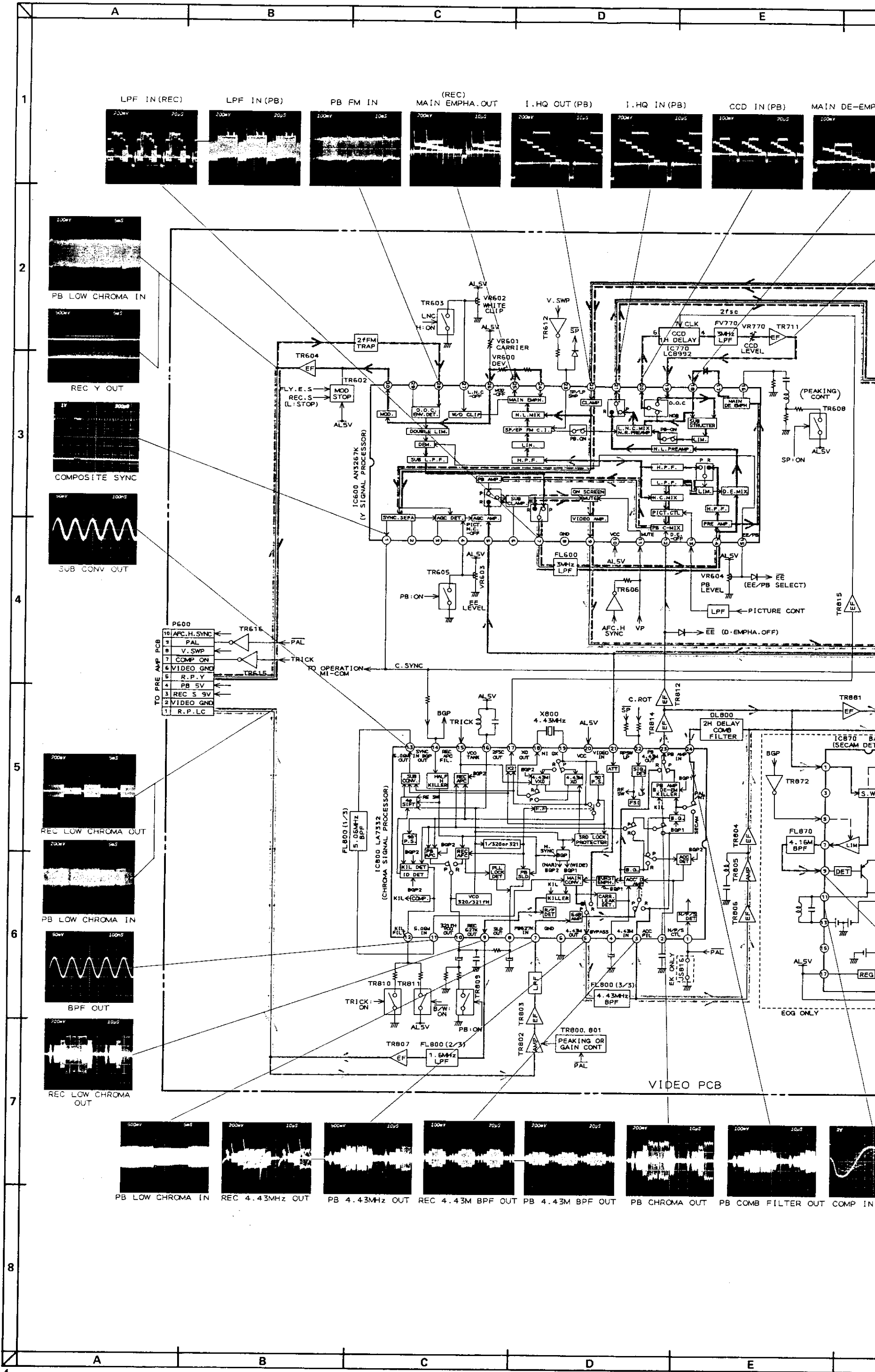


MAIN PCB

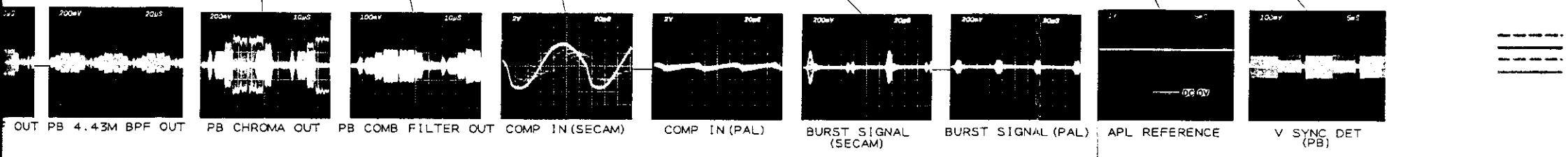
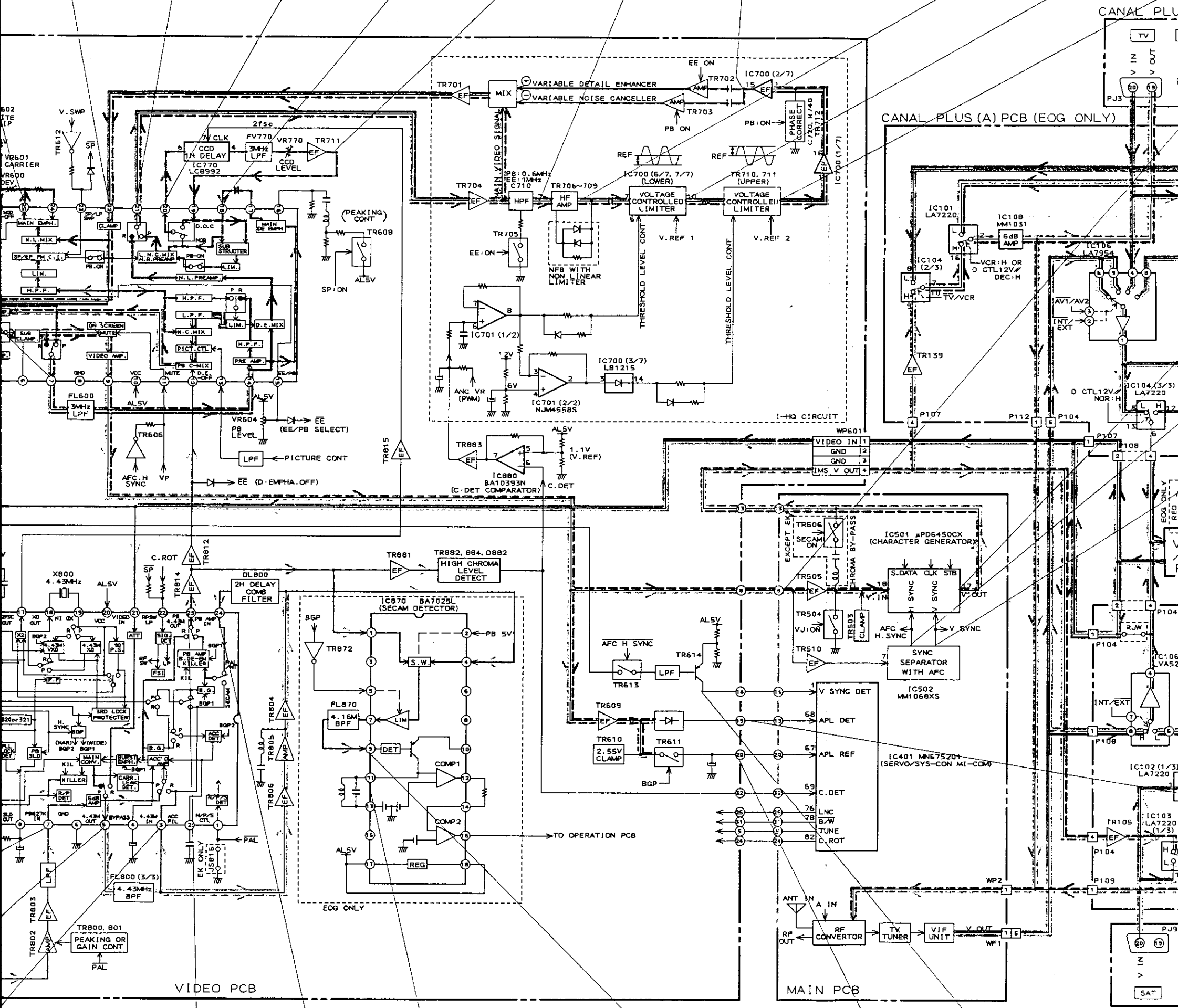
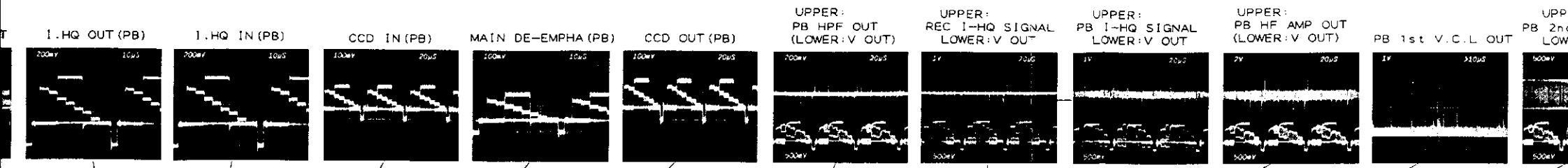
VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 OPERATION & SYSCON  
 BLOCK DIAGRAM

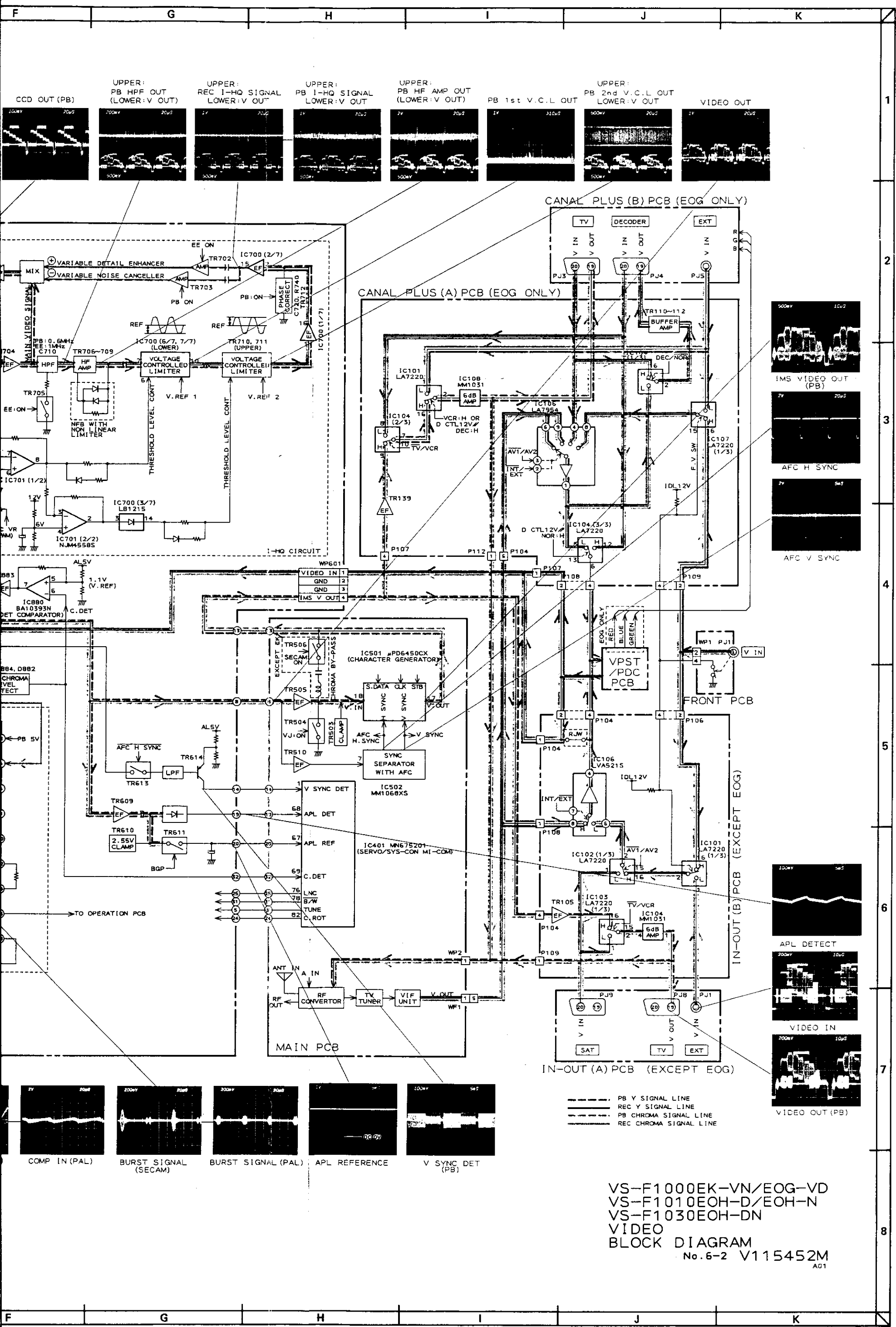
No. 6-1 V115451M  
 A1

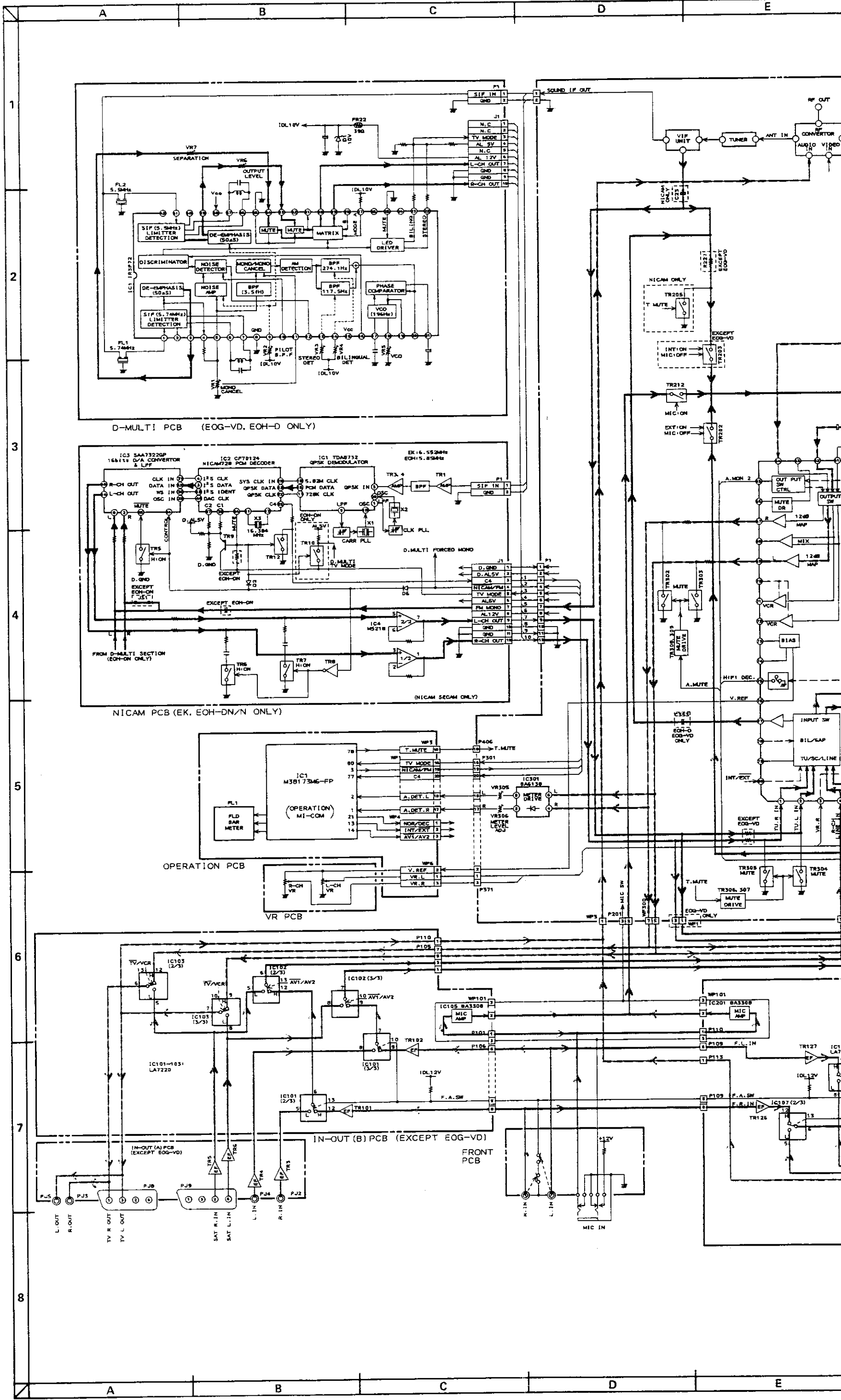
1  
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8











D-MULTI PCB (EOG-VD, EOH-D ONLY)

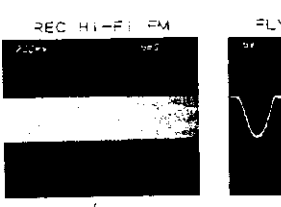
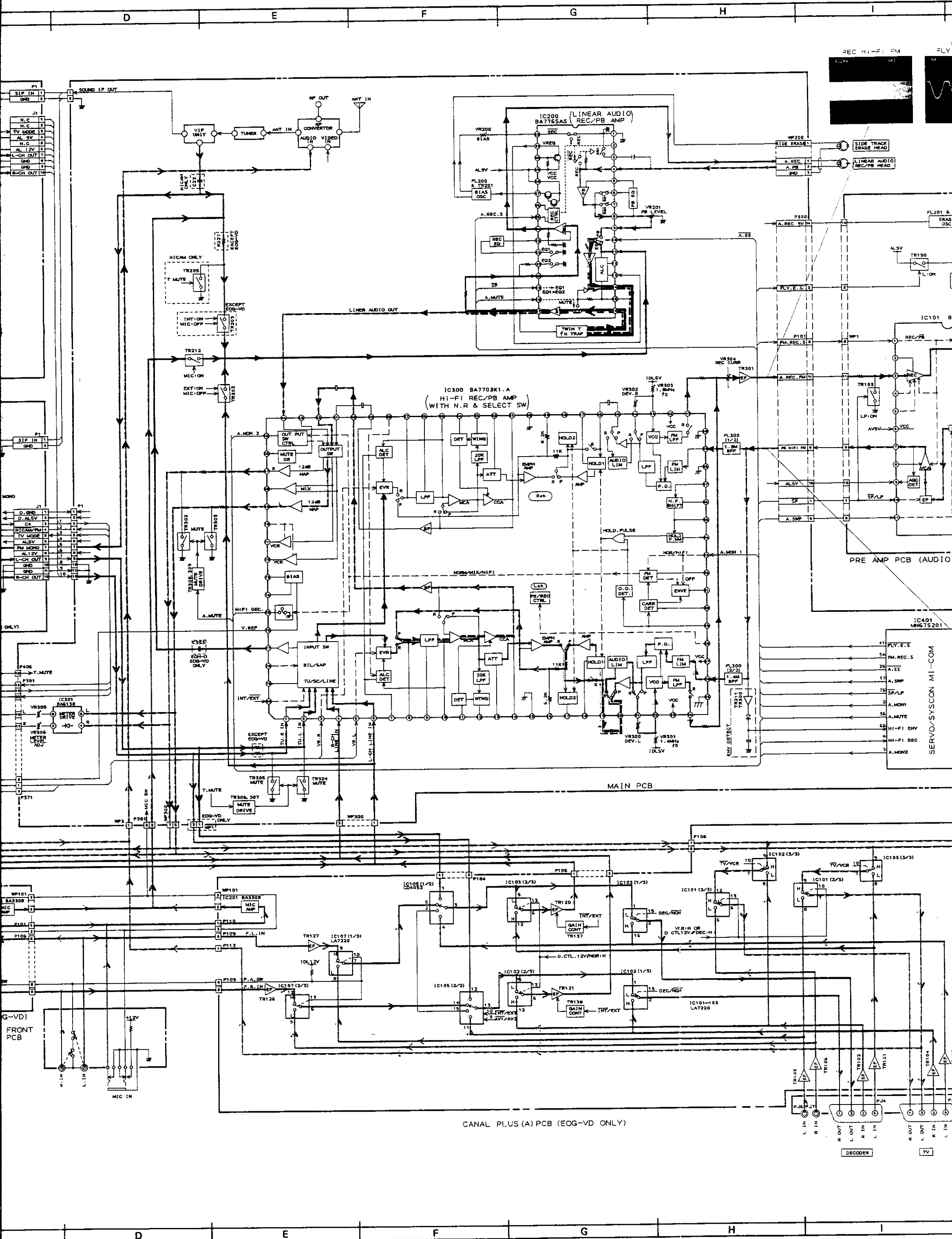
NICAM PCB (EK, EOH-DN/N ONLY)

OPERATION PCB

VR PCB

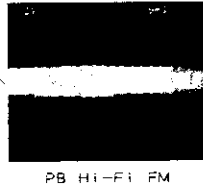
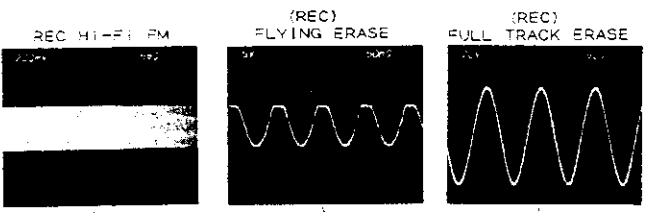
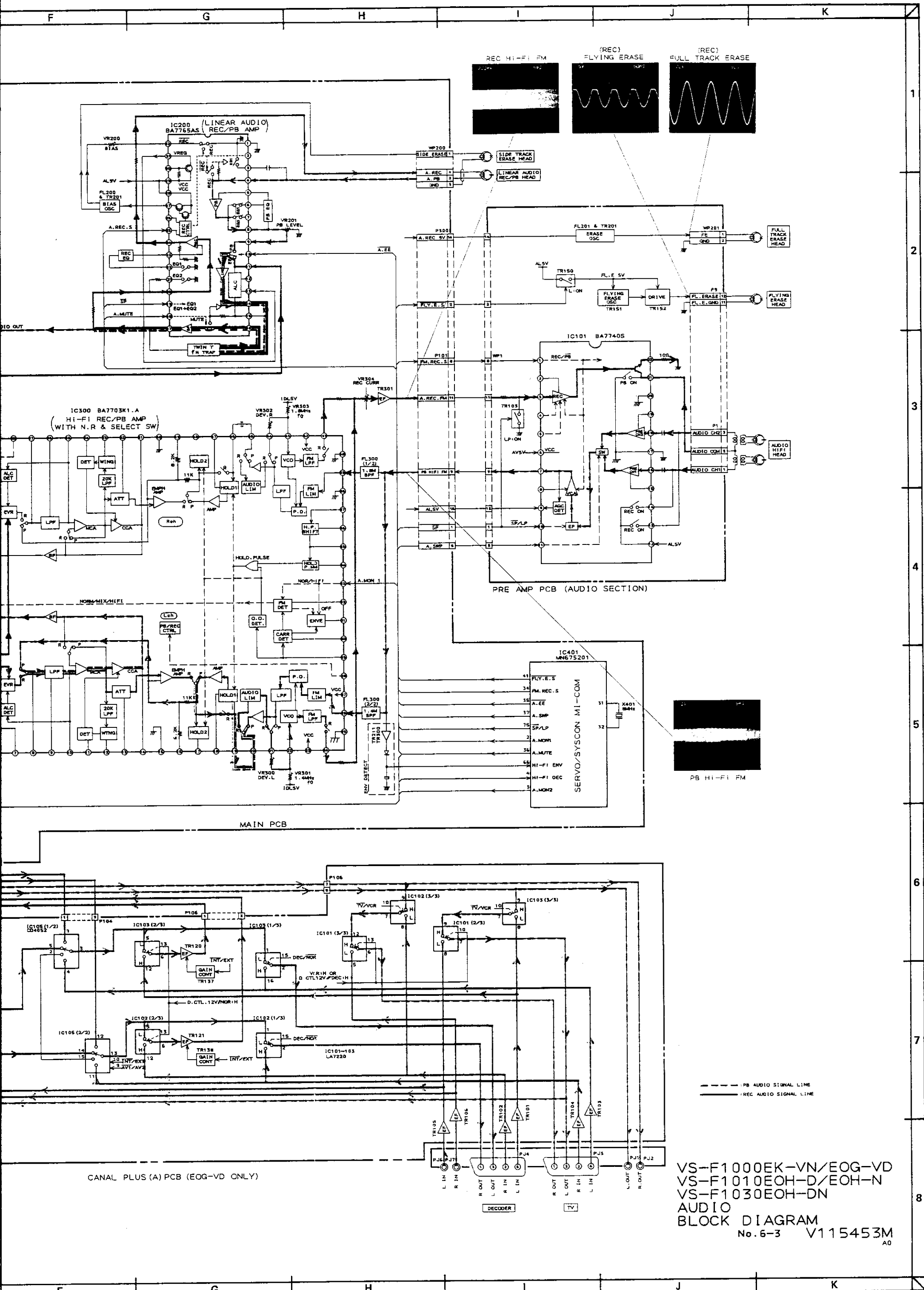
IN-OUT (B) PCB (EXCEPT EOG-VD)

FRONT PCB

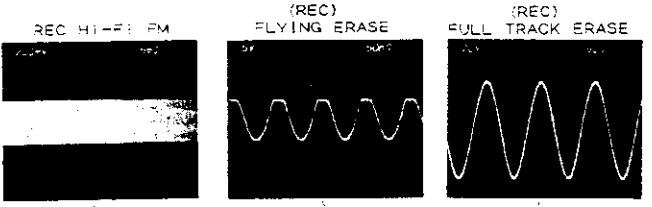
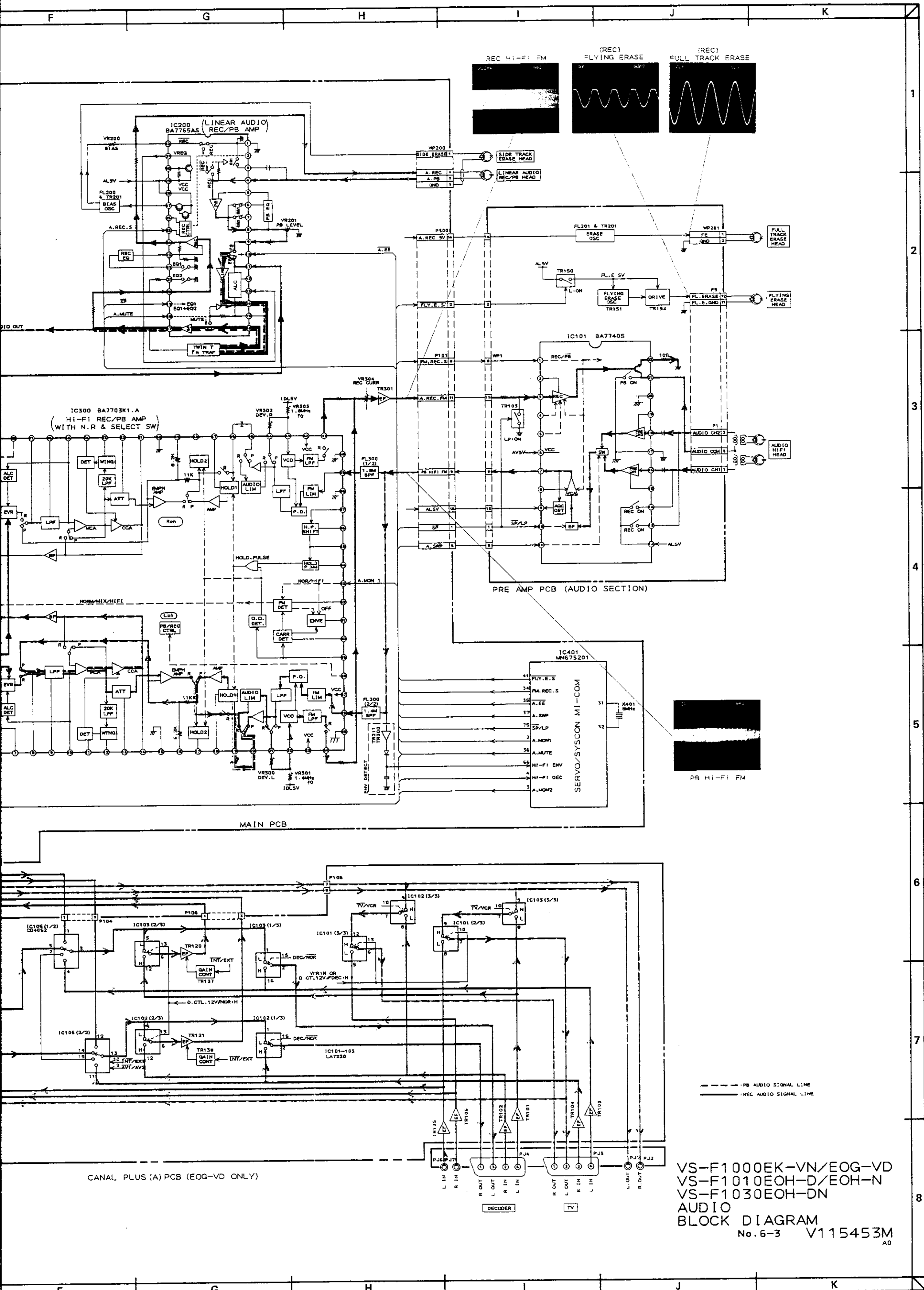


CANAL PLUS (A) PCB (EOG-VD ONLY)

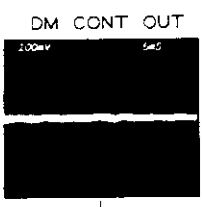
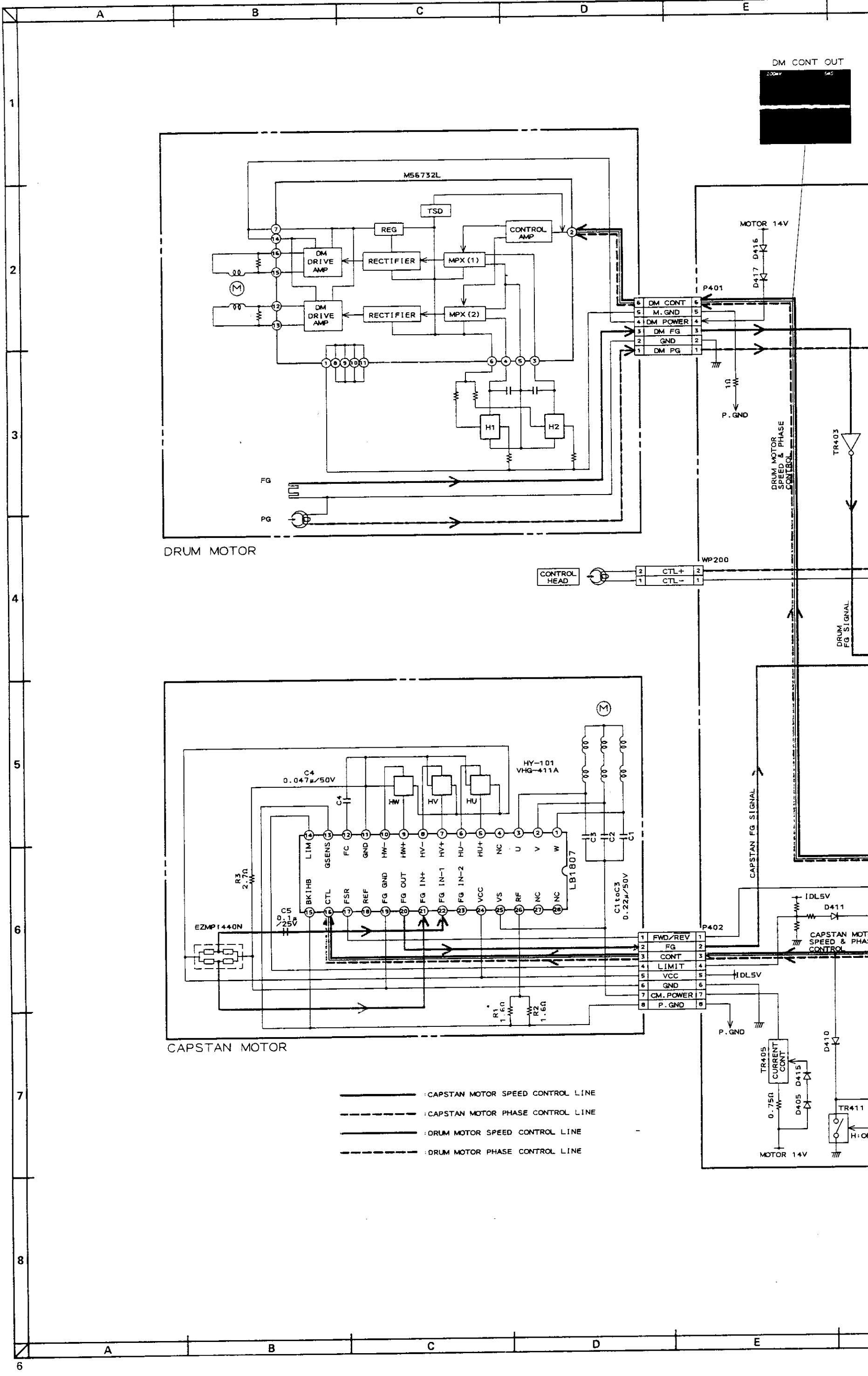
DECODER TV



VS-F1000EK-VN/EOG-V D  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 AUDIO  
 BLOCK DIAGRAM  
 No. 6-3 V115453M  
 A0



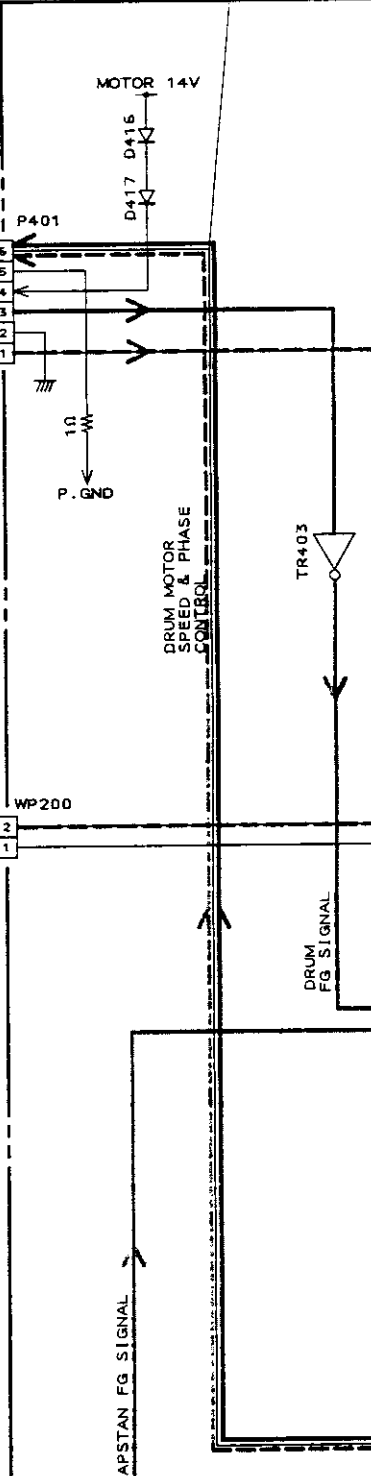
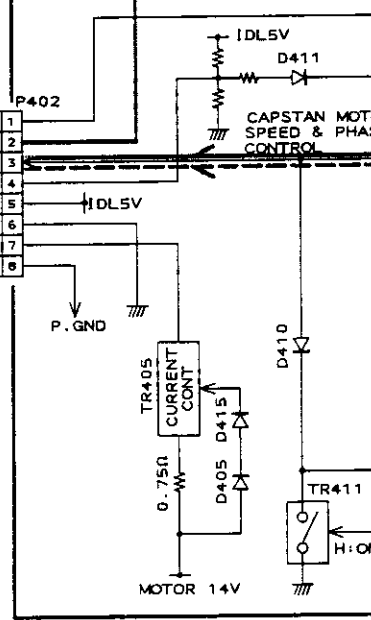
VS-F1000EK-VN/EOG-V D  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 AUDIO  
 BLOCK DIAGRAM  
 No. 6-3 V115453M  
 A0



DRUM MOTOR

CAPSTAN MOTOR

- : CAPSTAN MOTOR SPEED CONTROL LINE
- - - - - : CAPSTAN MOTOR PHASE CONTROL LINE
- : DRUM MOTOR SPEED CONTROL LINE
- - - - - : DRUM MOTOR PHASE CONTROL LINE



6	DM CONT	6
5	M. GND	5
4	DM POWER	4
3	DM FG	3
2	GND	2
1	DM PG	1

1	FWD/REV	1
2	FG	2
3	CONT	3
4	LIMIT	4
5	VCC	5
6	GND	6
7	CM. POWER	7
8	P. GND	8

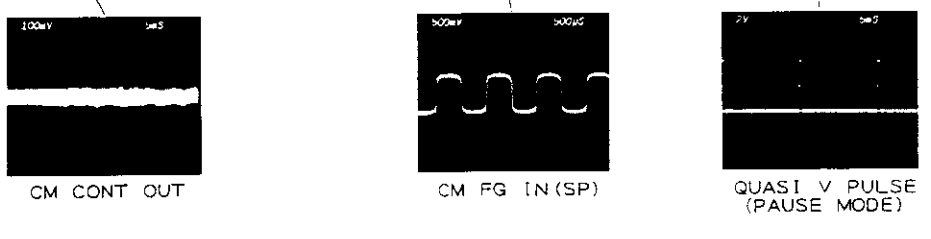
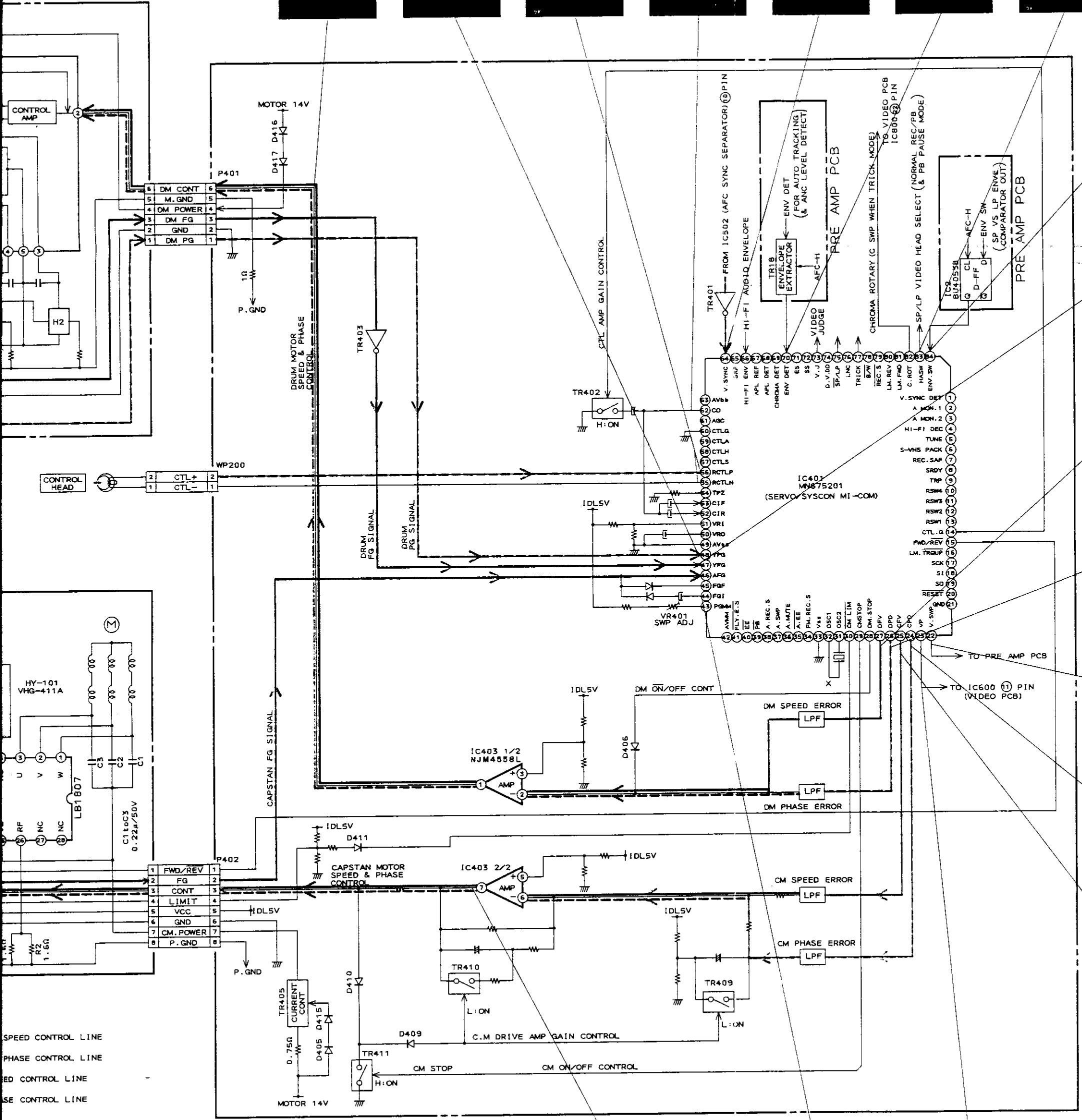
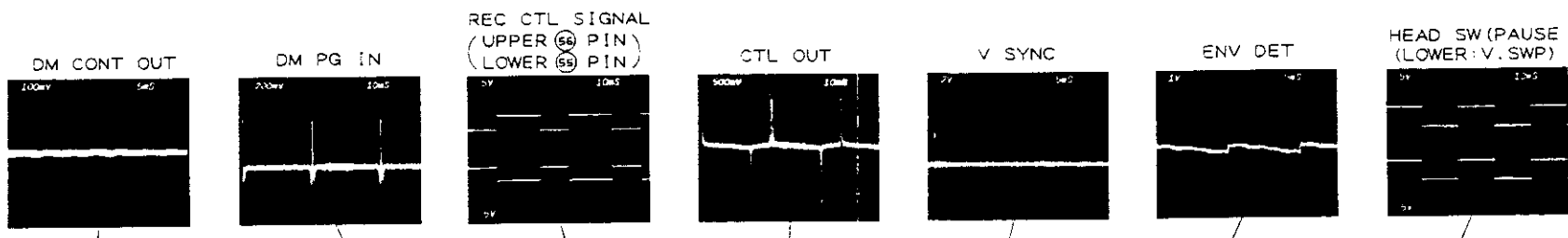
2	CTL+	2
1	CTL-	1

1  
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A B C D E

A B C D E

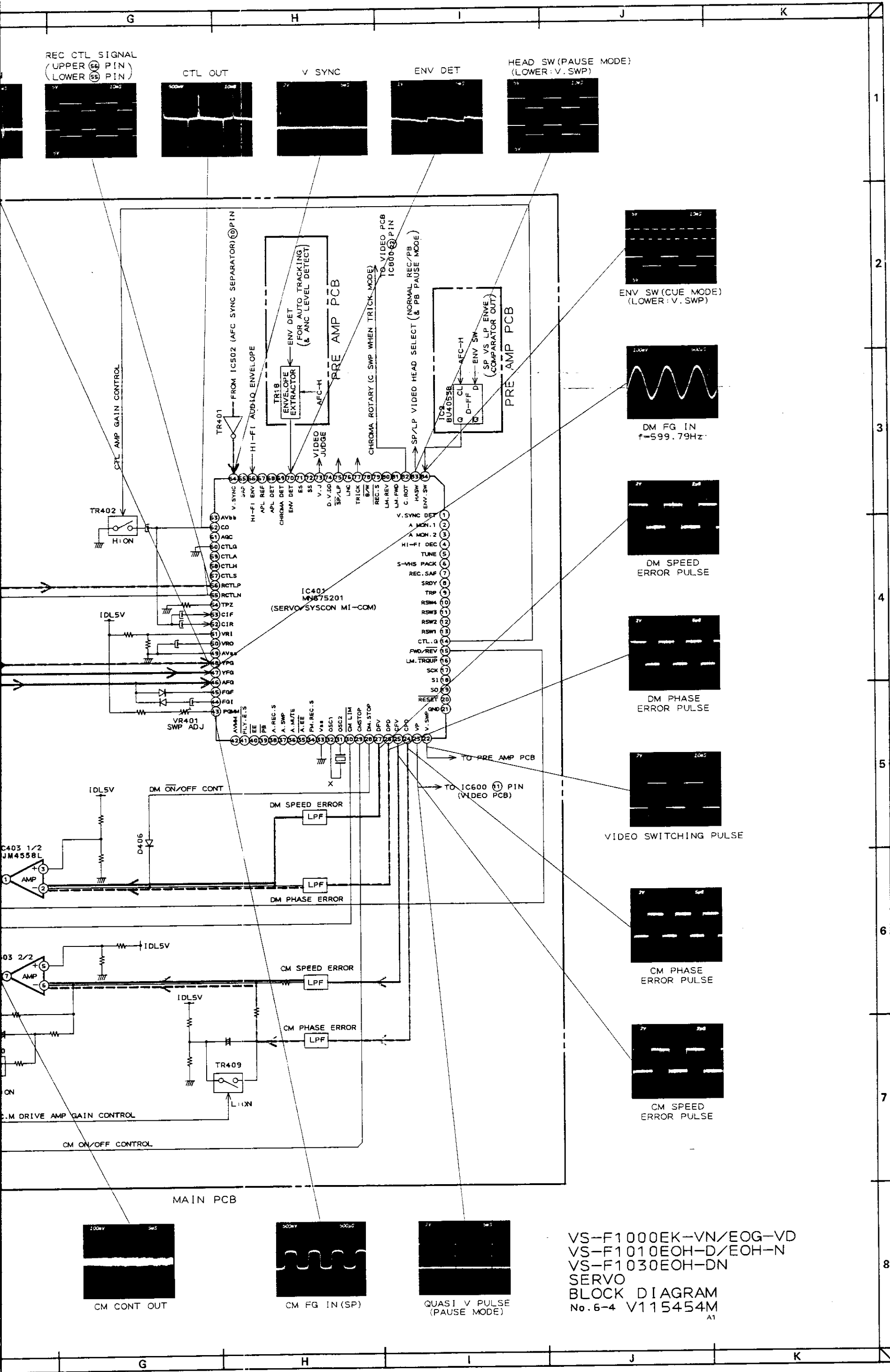
D E F G H I



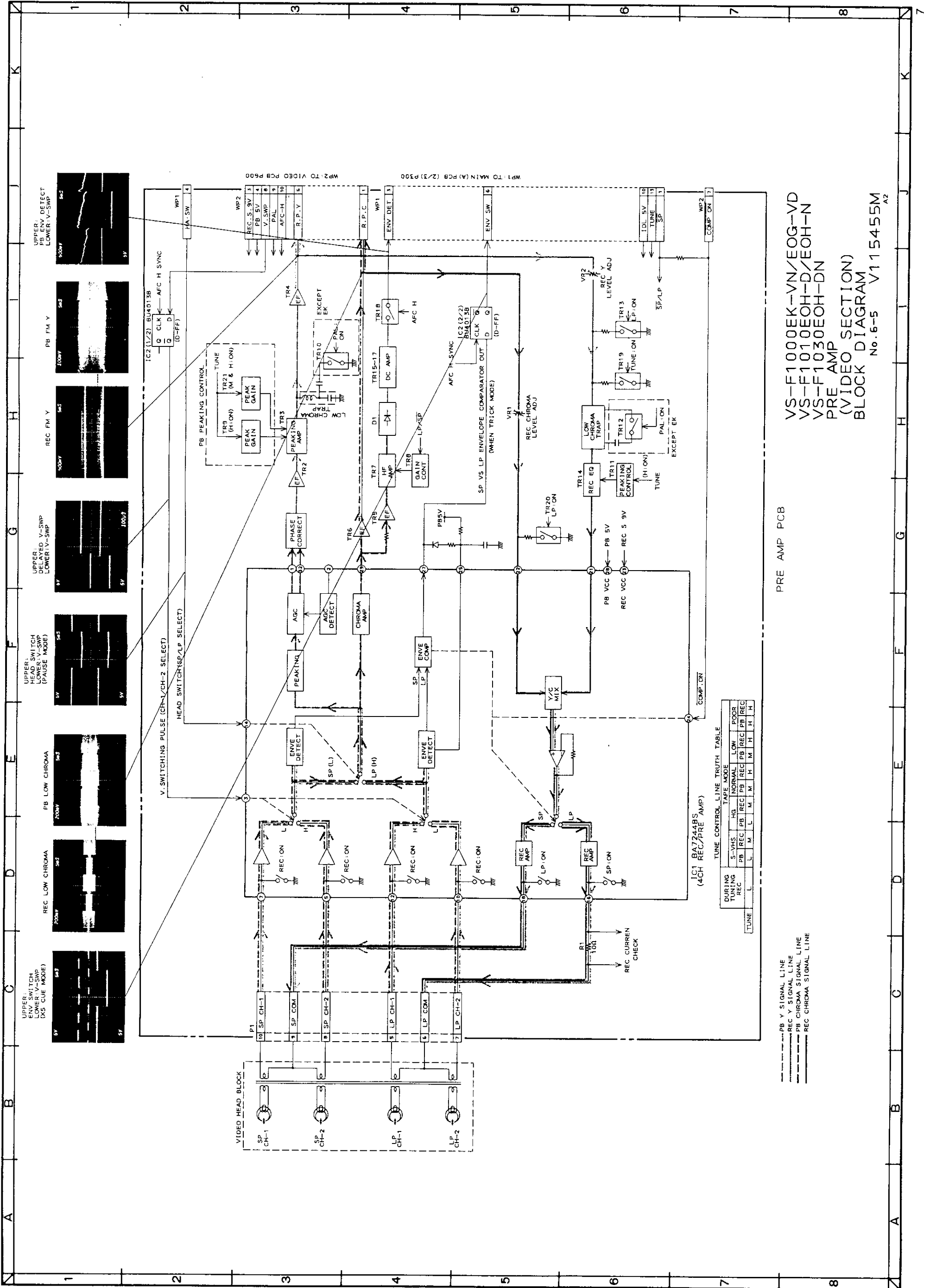
VS-F  
VS-F  
VS-F  
SERV  
BLOC  
No. 6-

D E F G H I

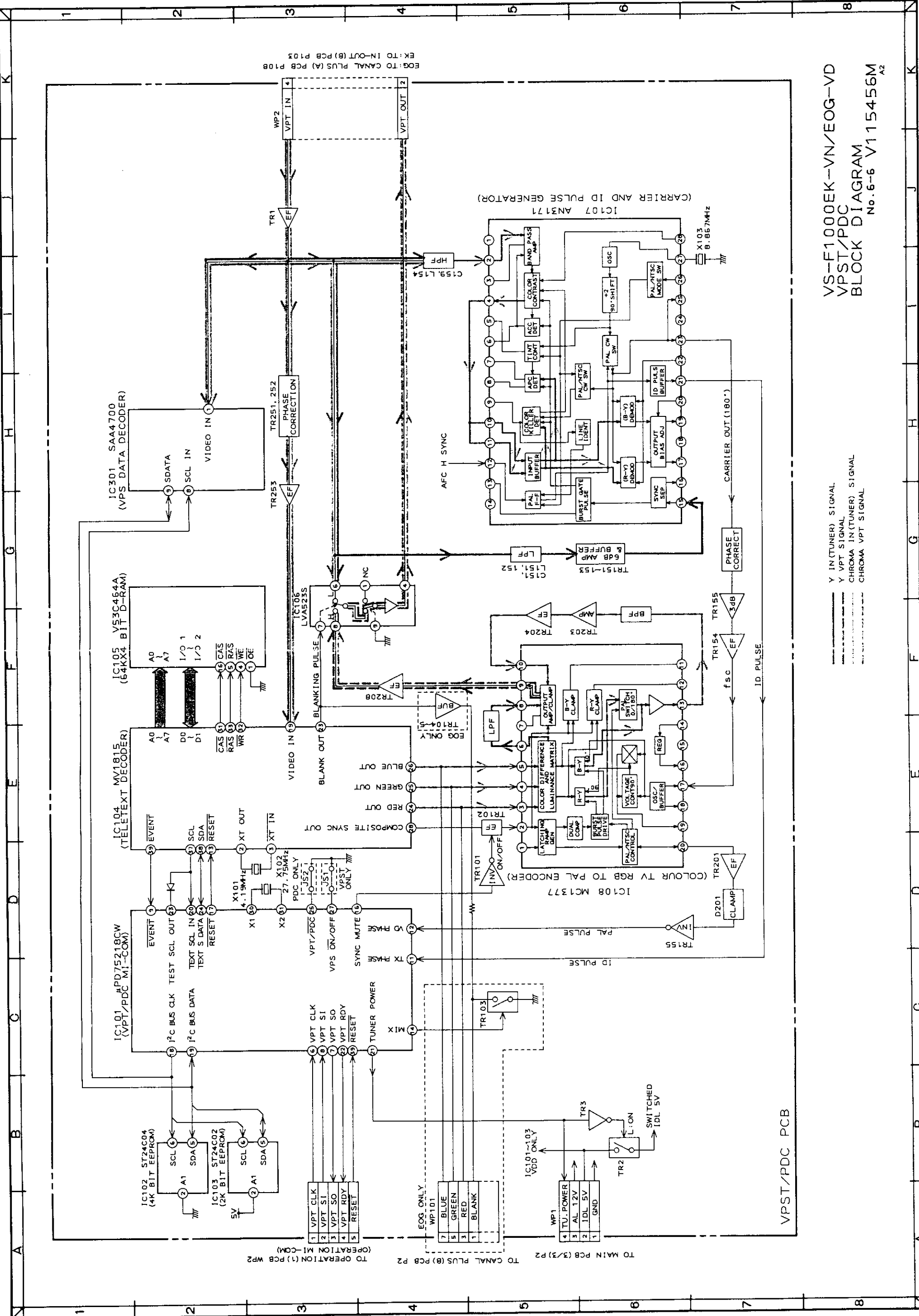




1  
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PRE AMP PCB  
 VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 PRE AMP  
 (VIDEO SECTION)  
 BLOCK DIAGRAM  
 No. 6-5 V115455M  
 A2



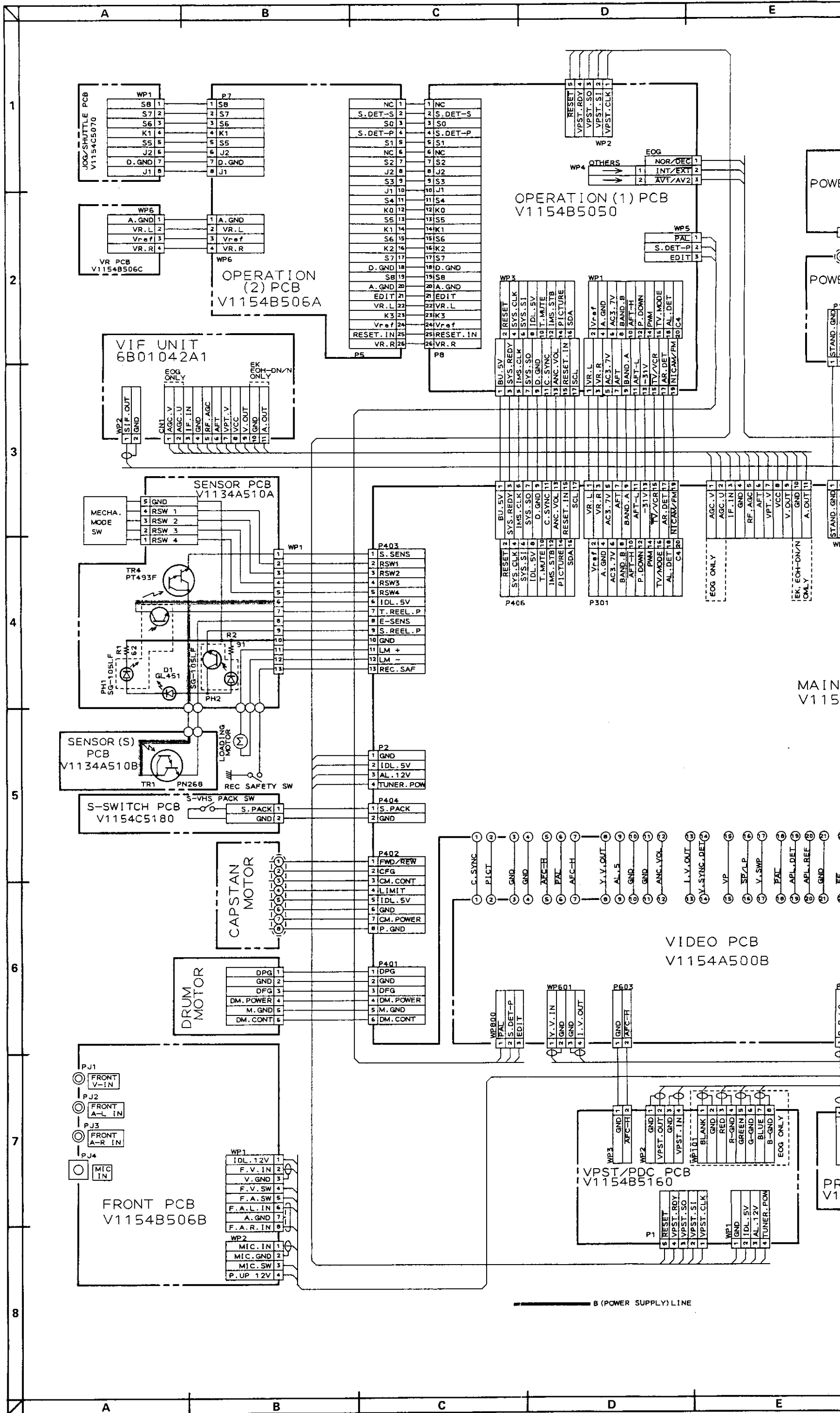
VS-F1000EK-VN/EOG-VD  
VPST/PDC  
BLOCK DIAGRAM  
No. 6-6 V115456M<sub>A2</sub>

Y IN (TUNER) SIGNAL  
Y VPT SIGNAL  
CHROMA IN (TUNER) SIGNAL  
CHROMA VPT SIGNAL

VPST/PDC PCB

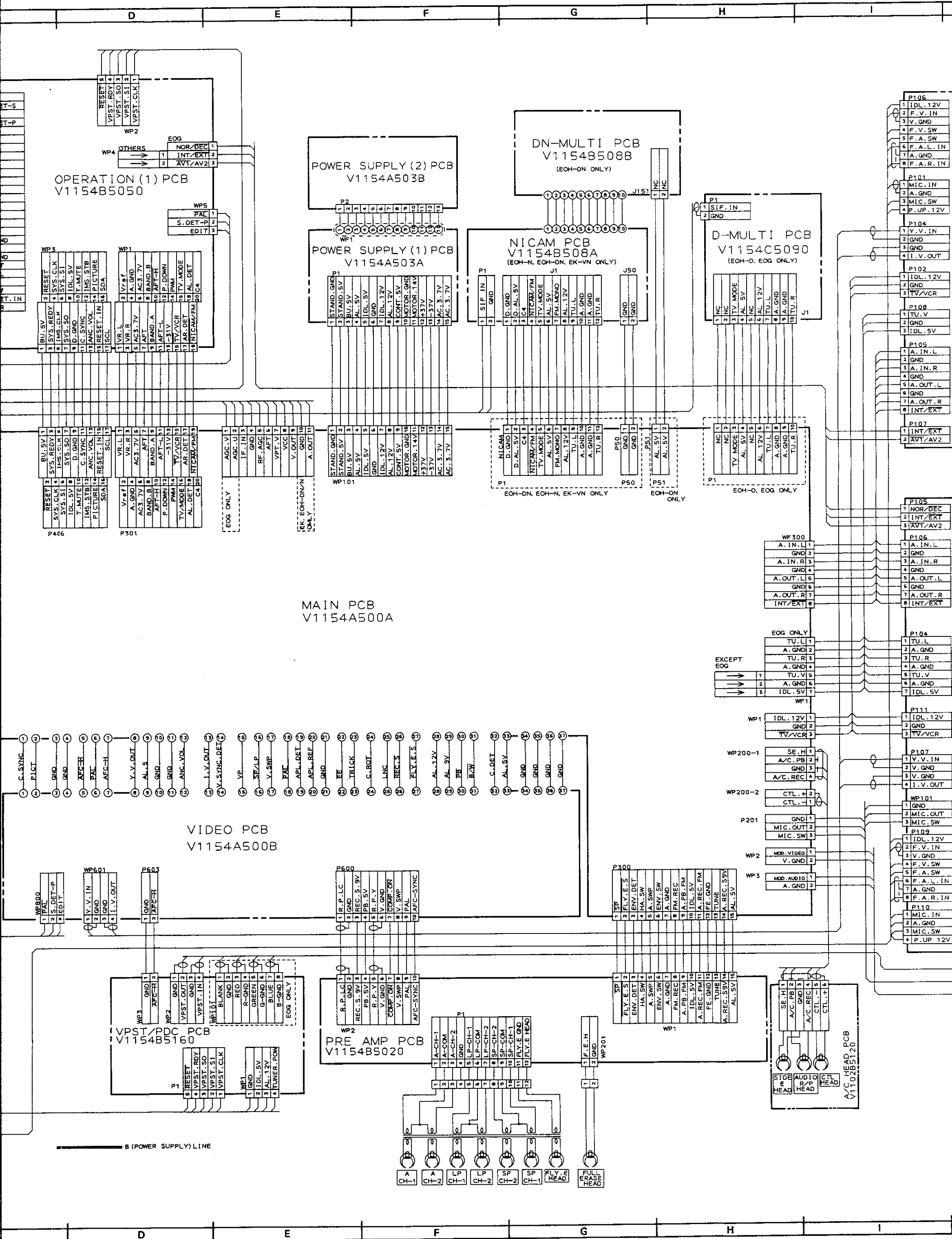
TO MAIN PCB (3/3) P2  
TO CANAL PLUS (B) PCB P2  
TO OPERATION (1) PCB WP2  
TO OPERATION (1) PCB WP2

EOG: TO IN-OUT (B) PCB P103  
EOG: TO CANAL PLUS (A) PCB P108



MAIN V115

B (POWER SUPPLY) LINE



MAIN PCB  
V1154A500A

VIDEO PCB  
V1154A500B

DN-MULTI PCB  
V1154B508B  
(EOH-DN ONLY)

POWER SUPPLY (2) PCB  
V1154A503B

POWER SUPPLY (1) PCB  
V1154A503A

NICAM PCB  
V1154B508A  
(EOH-N, EOH-DN, EK-VN ONLY)

D-MULTI PCB  
V1154C5090  
(EOH-D, EOG ONLY)

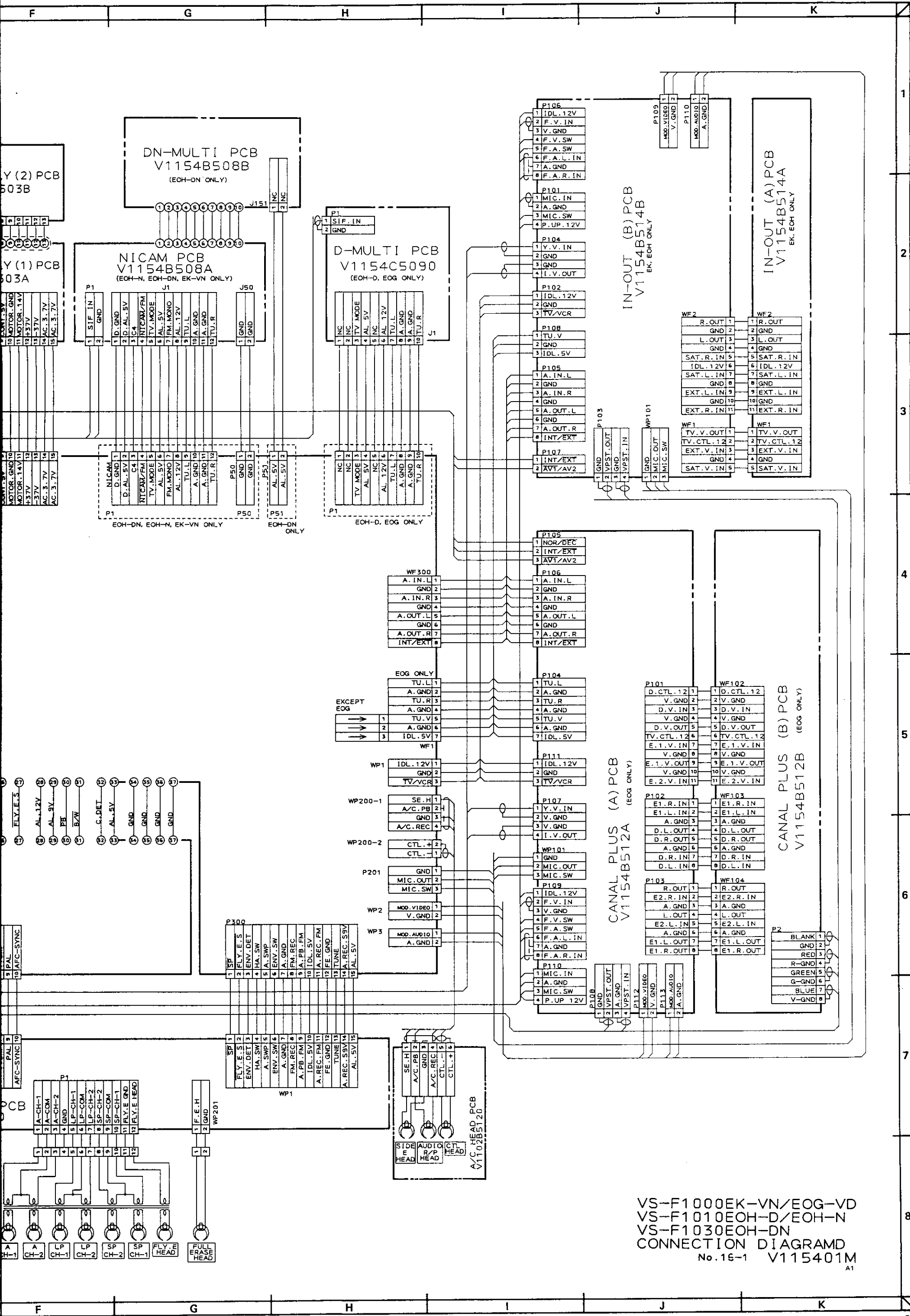
OPERATION (1) PCB  
V1154B5050

VPST/DCC PCB  
V1154B5010

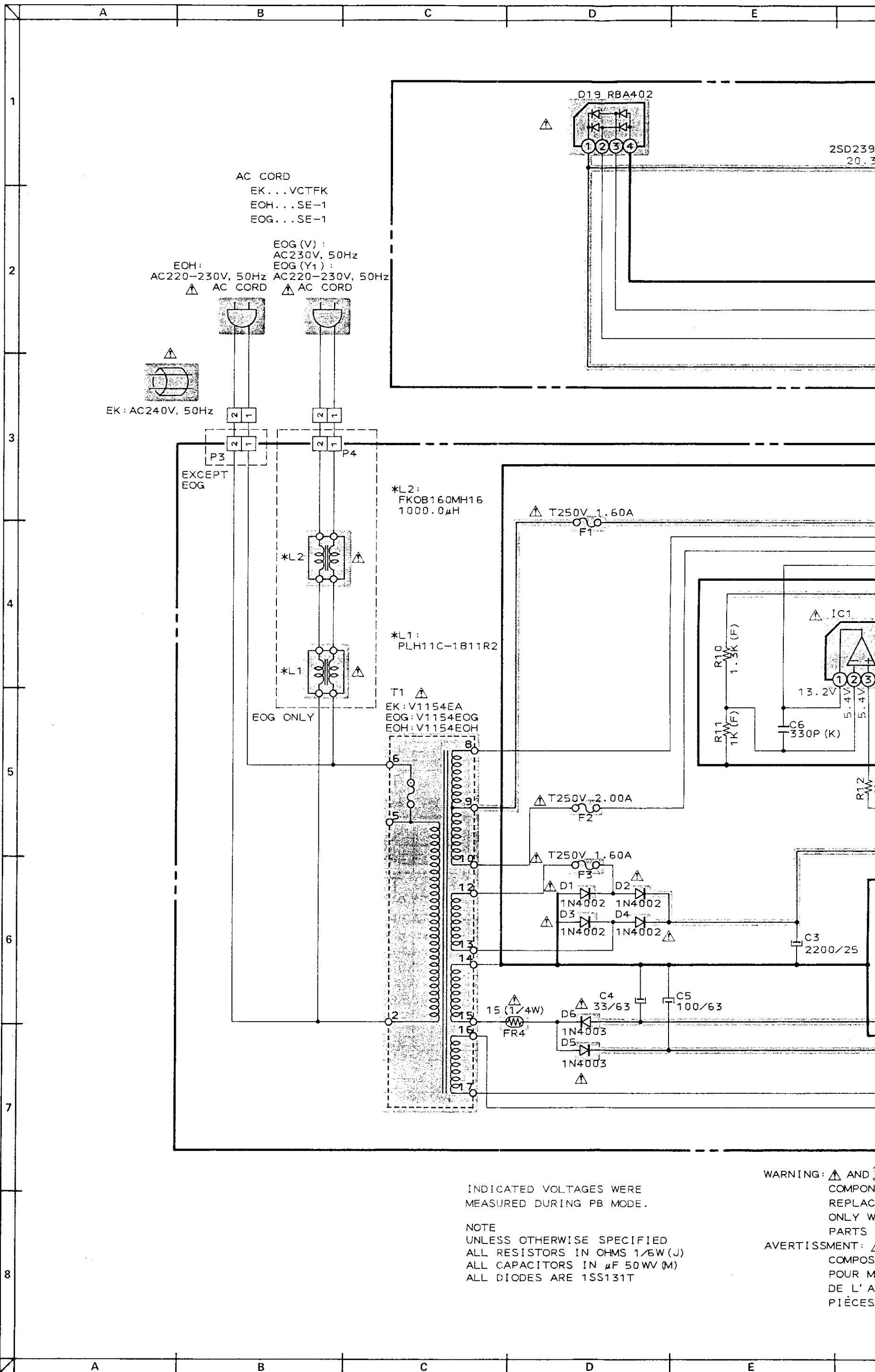
PRE AMP PCB  
V1154B5020

A/C HEAD PCB  
V1102B5120

B (POWER SUPPLY) LINE



VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 CONNECTION DIAGRAM  
 No. 16-1 V115401M  
 A1



AC CORD  
 EK...VCTFK  
 EOH...SE-1  
 EOG...SE-1

EOH: AC220-230V, 50Hz  
 AC CORD  
 EOG (V): AC230V, 50Hz  
 EOG (Y1): AC220-230V, 50Hz  
 AC CORD

EK: AC240V, 50Hz

\*L2:  
 FKOB160MH16  
 1000.0μH

\*L1:  
 PLH11C-1811R2

T1  
 EK: V1154EA  
 EOG: V1154EOG  
 EOH: V1154EOH

T250V 1.60A  
 F1

T250V 2.00A  
 F2

T250V 1.60A  
 F3

D1 1N4002  
 D2 1N4002  
 D3 1N4002  
 D4 1N4002

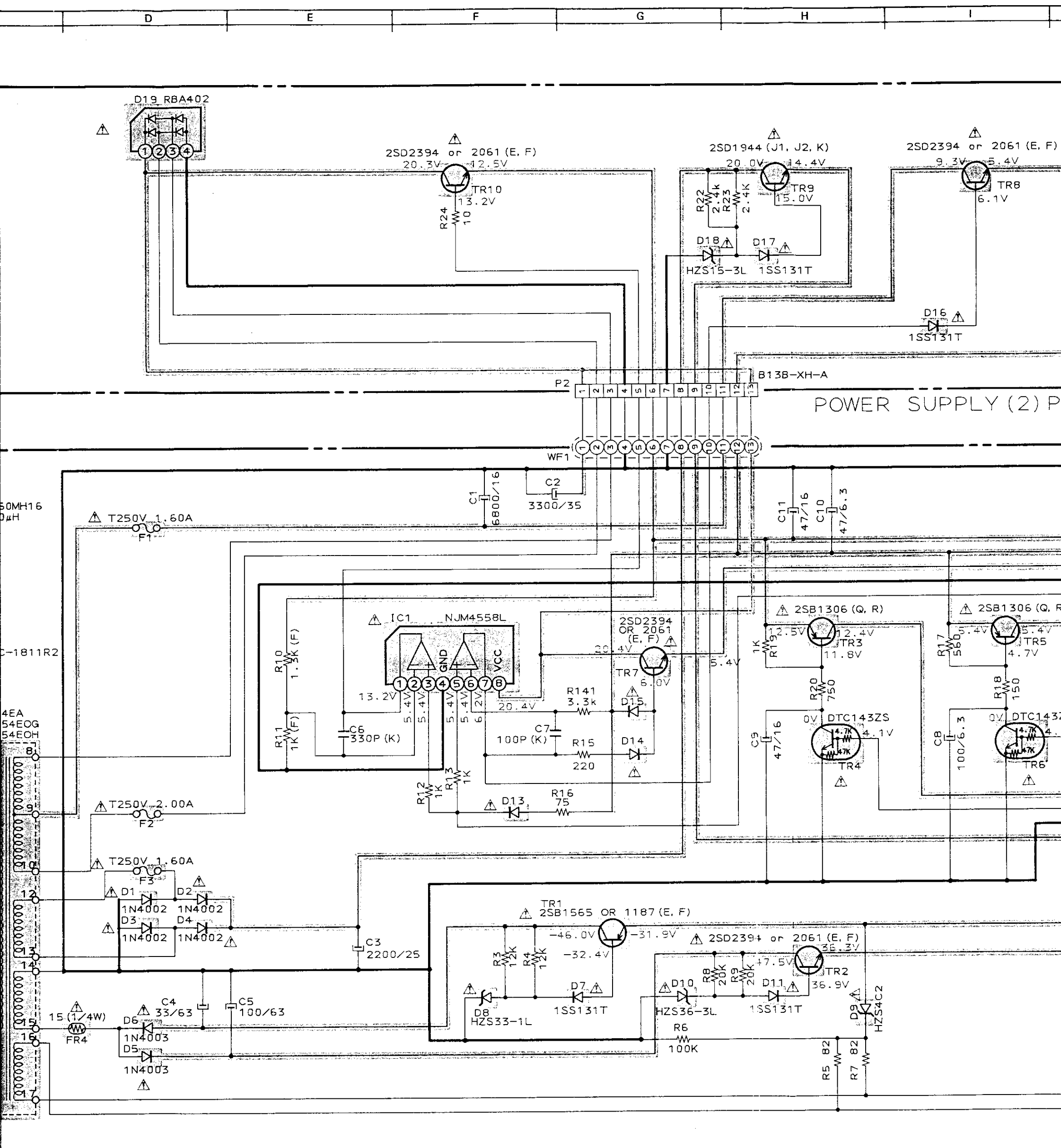
15 (1/4W) FR4  
 D5 1N4003  
 C4 33/63  
 C5 100/63

IC1  
 13.2V  
 5.4V  
 5.4V  
 R10 1.3K (F)  
 R11 1K (F)  
 C6 330P (K)

INDICATED VOLTAGES WERE  
 MEASURED DURING PB MODE.

NOTE  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS 1/6W (J)  
 ALL CAPACITORS IN μF 50WV (M)  
 ALL DIODES ARE 1SS131T

WARNING: ⚠ AND ⚡  
 COMPO  
 REPLAC  
 ONLY W  
 PARTS  
 AVERTISSMENT: ⚠  
 COMPOS  
 POUR M  
 DE L' A  
 PIÈCES



POWER SUPPLY (1) PCB

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.

NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/6W (J)  
ALL CAPACITORS IN  $\mu$ F 50 WV (M)  
ALL DIODES ARE 1SS131T

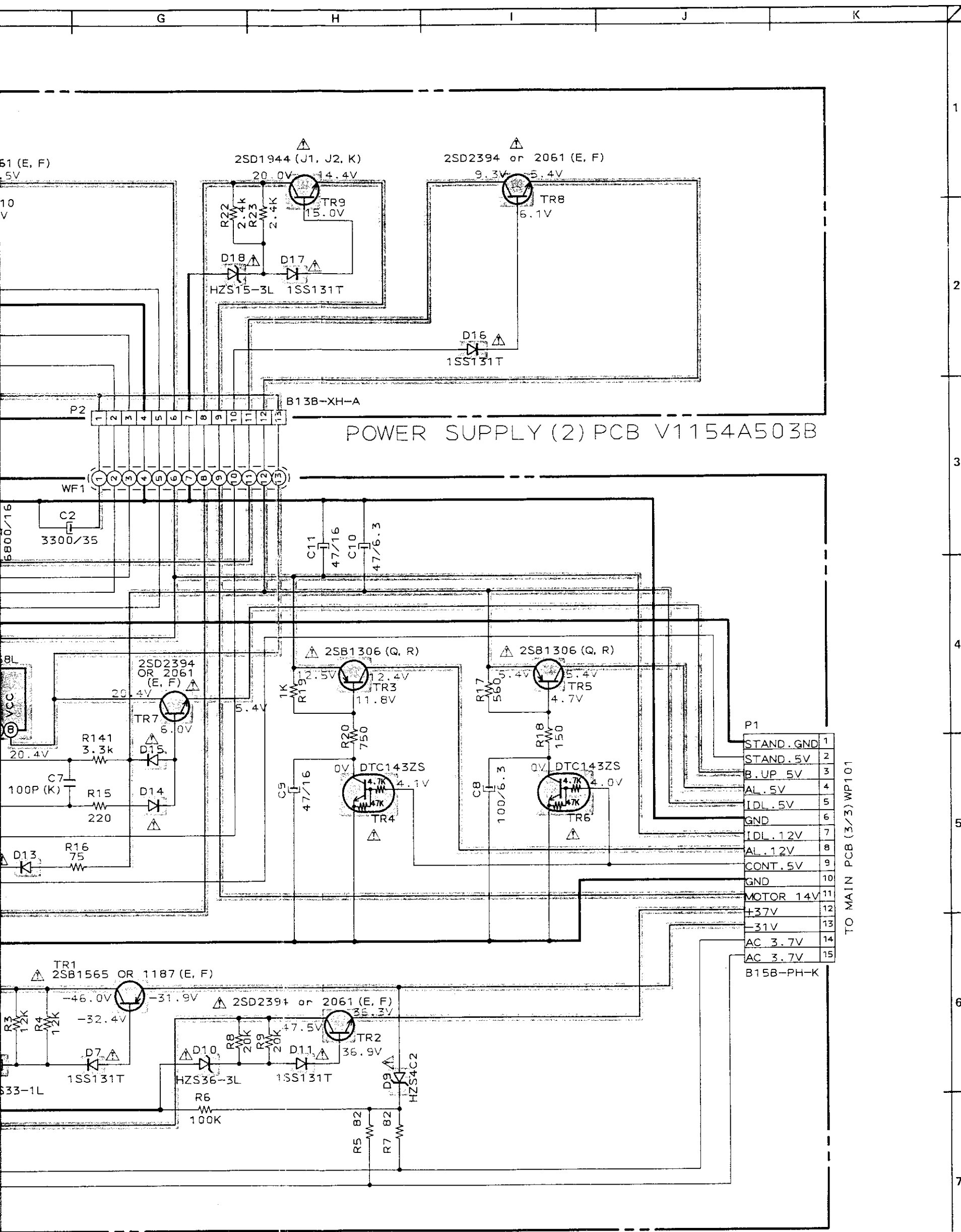
WARNING:  $\triangle$  AND  $\square$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT:  $\triangle$  ET  $\square$ , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

\_\_\_\_\_ B (POWER SUPPLY) LINE

V  
V  
V  
P  
S





STAND. GND	1
STAND. 5V	2
B. UP. 5V	3
AL. 5V	4
IDL. 5V	5
GND	6
IDL. 12V	7
AL. 12V	8
CONT. 5V	9
GND	10
MOTOR 14V	11
+37V	12
-31V	13
AC 3.7V	14
AC 3.7V	15

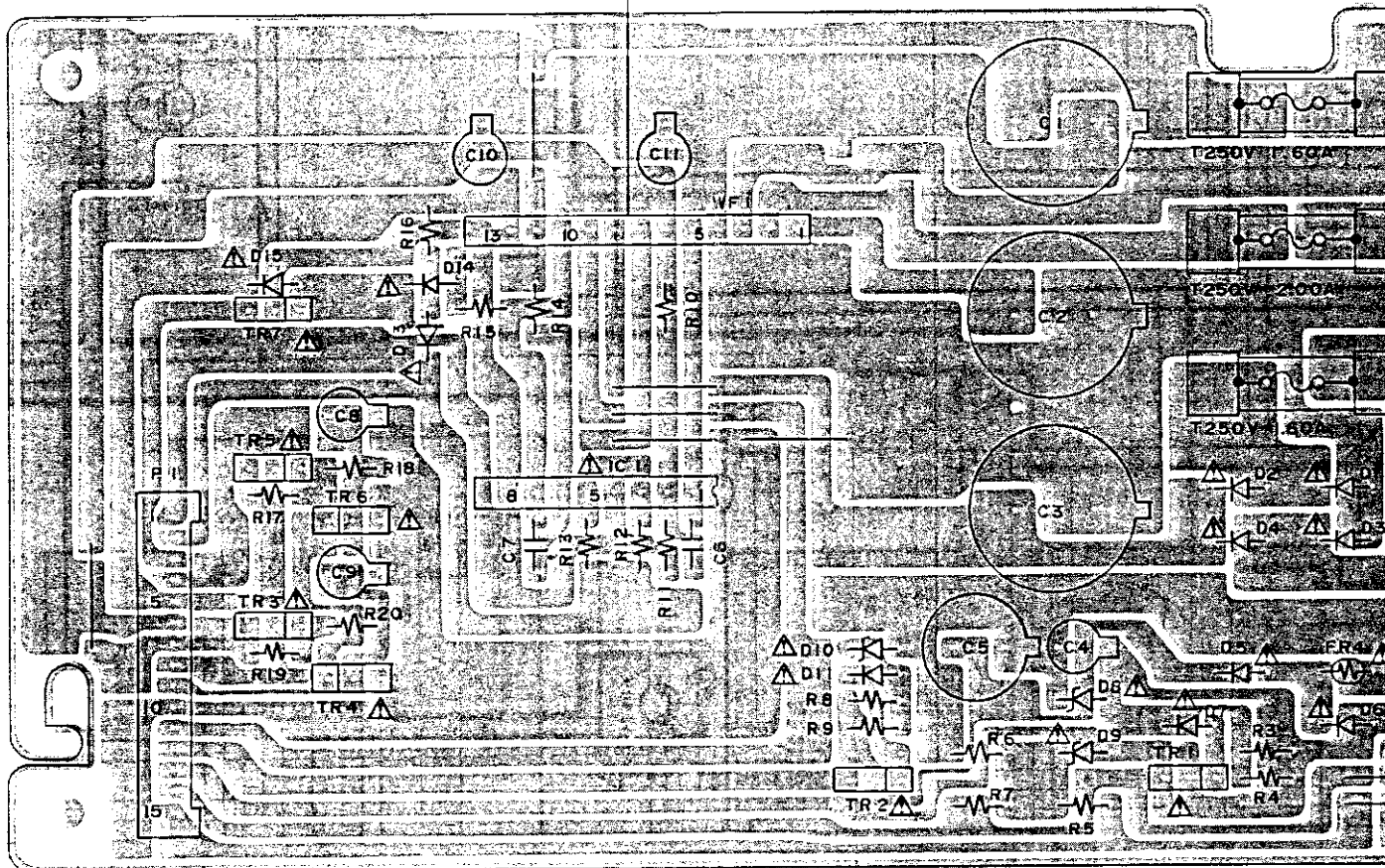
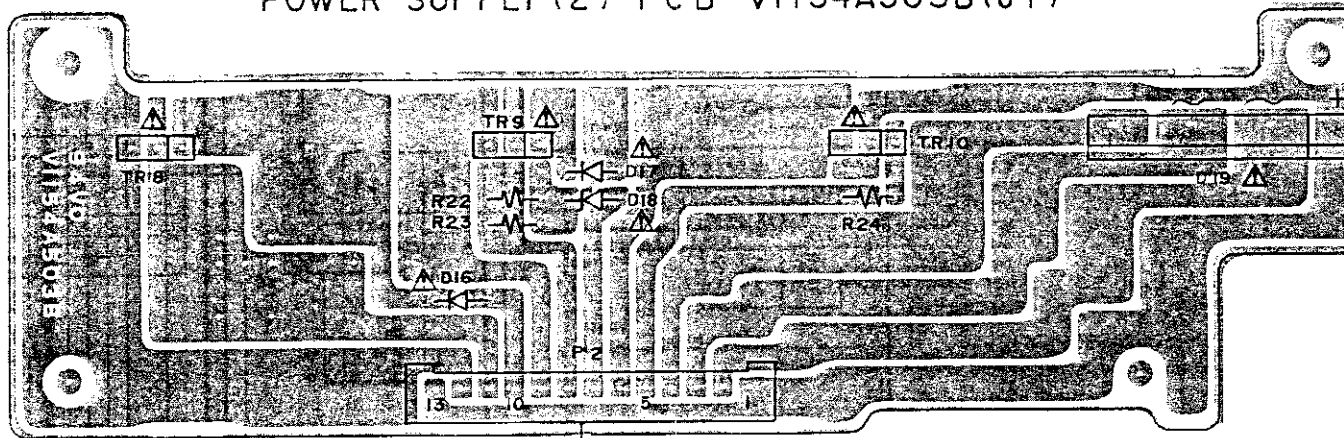
TO MAIN PCB (3/3) WP101

INDICATE SAFETY CRITICAL  
OR CONTINUED SAFETY,  
BY CRITICAL COMPONENTS  
MANUFACTURER'S RECOMMENDED

ILS INDIQUENT LES  
DEGRÉ DE SÉCURITÉ,  
NE REMPLACER QUE DES  
RECOMMANDÉES PAR LE FABRICANT

VS-F1000EK-VN/EOG-VD  
VS-F1010EOH-N/EOH-D  
VS-F1030EOH-DN  
POWER SUPPLY (1) & (2)  
SCHEMATIC DIAGRAM  
No. 16-2 V115402M  
A2

POWER SUPPLY (2) PCB VII54A503B(J1)

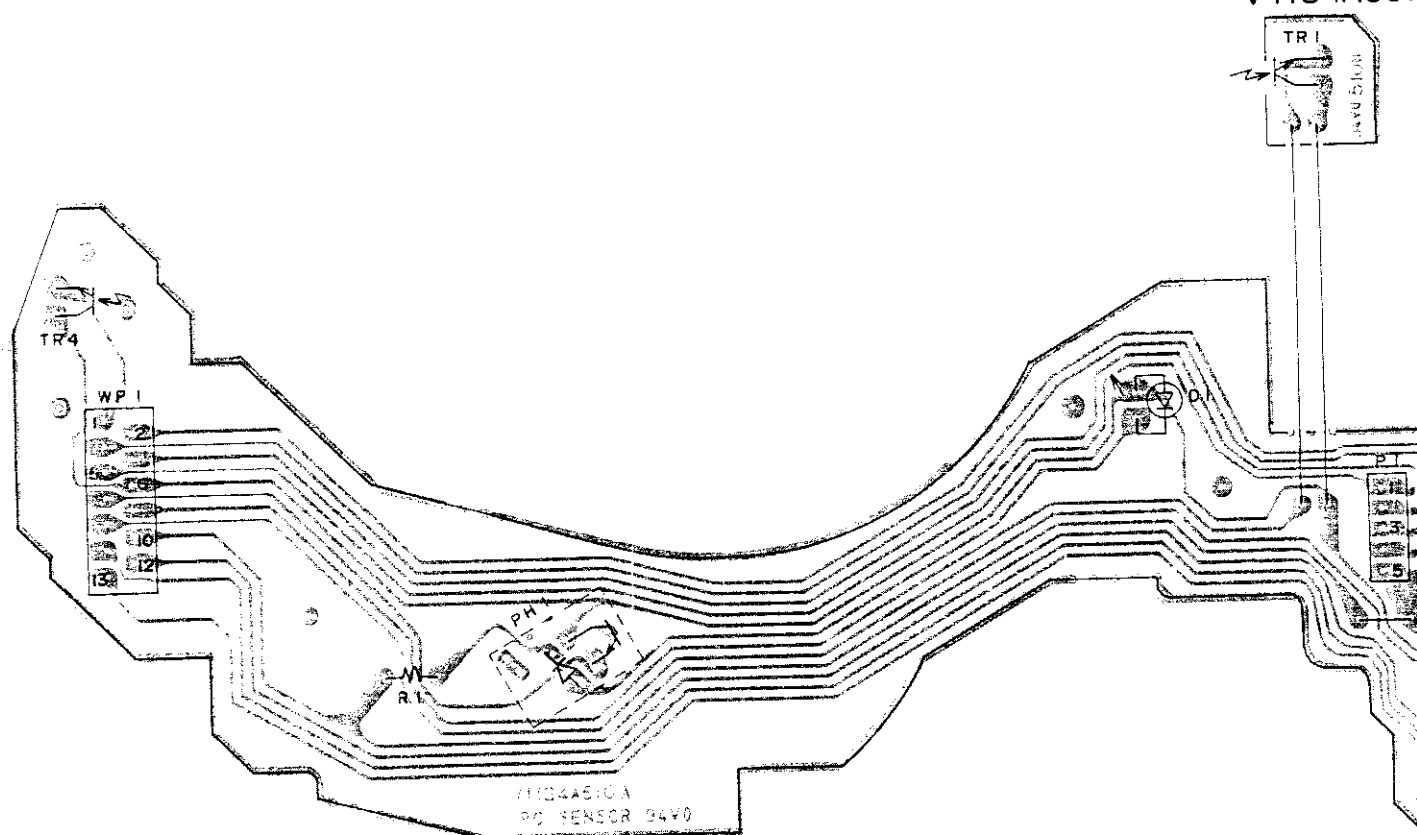


POWER SUPPLY (1) PCB VII54A503B(J1)

WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.  
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S  
RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.  
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,  
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

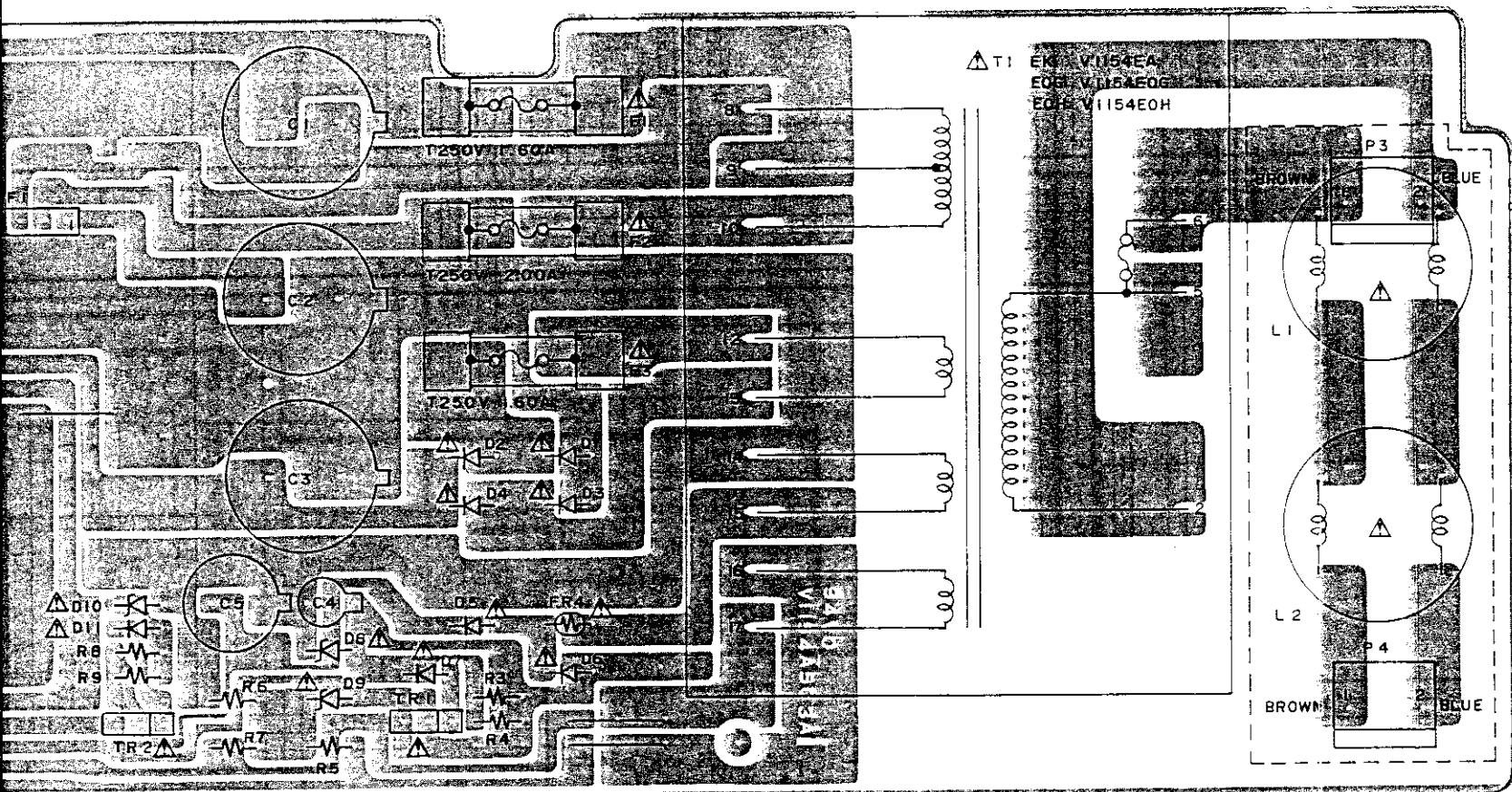
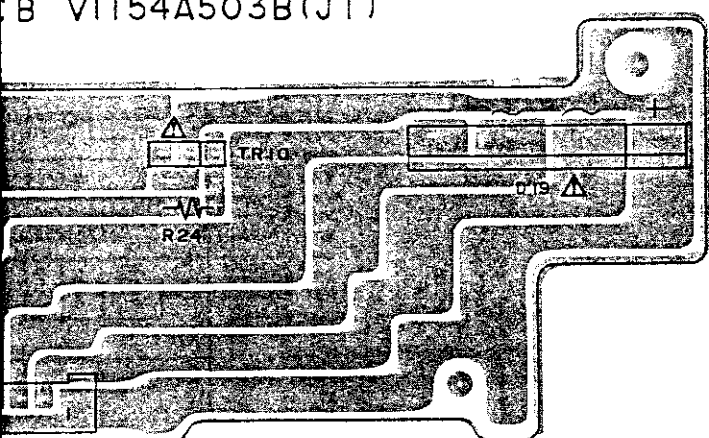
SENSOR(S) P  
VII34A501



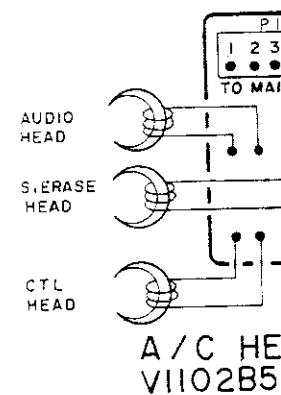
SENSOR PCB VII34A501A

TO LOADING MOTOR  
TO LOADING MOTOR  
TO REC SAFETY SW

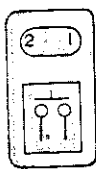
B VII154A503B(J1)



POWER SUPPLY (I) PCB VII154A503A(J1)



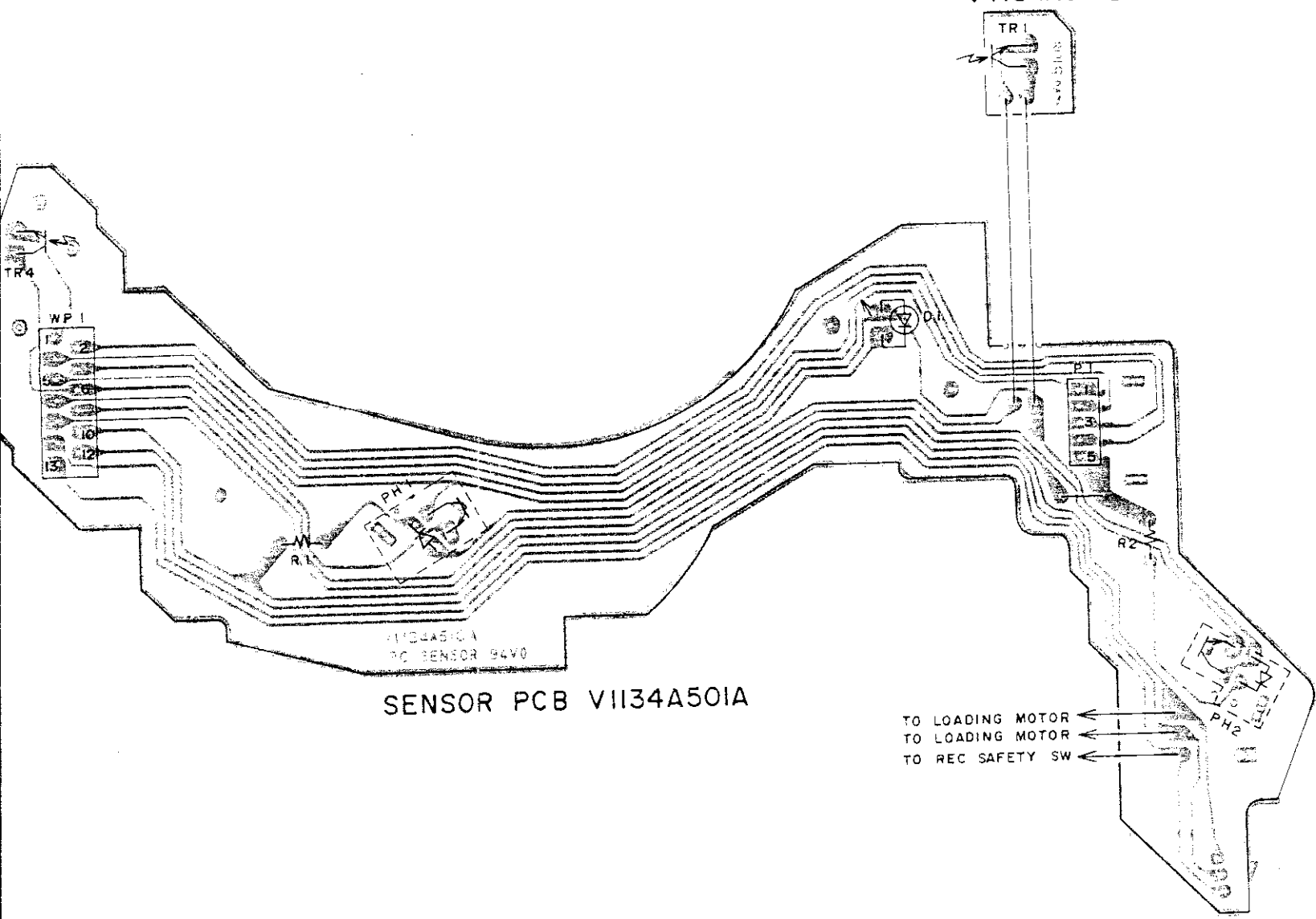
A/C HEAD VII102B5



S-SWITCH VII154C51B

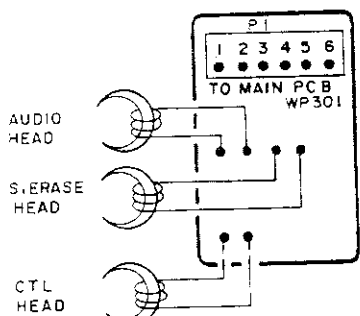
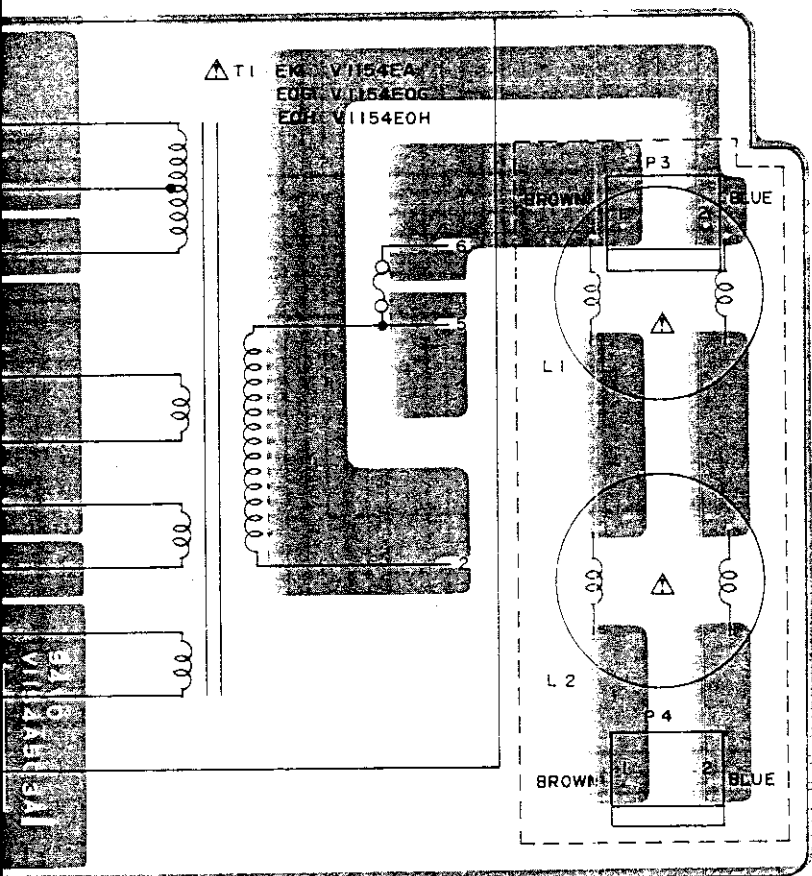
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.

SENSOR(S) PCB  
VII34A501B

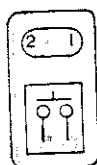


SENSOR PCB VII34A501A

TO LOADING MOTOR  
TO LOADING MOTOR  
TO REC SAFETY SW

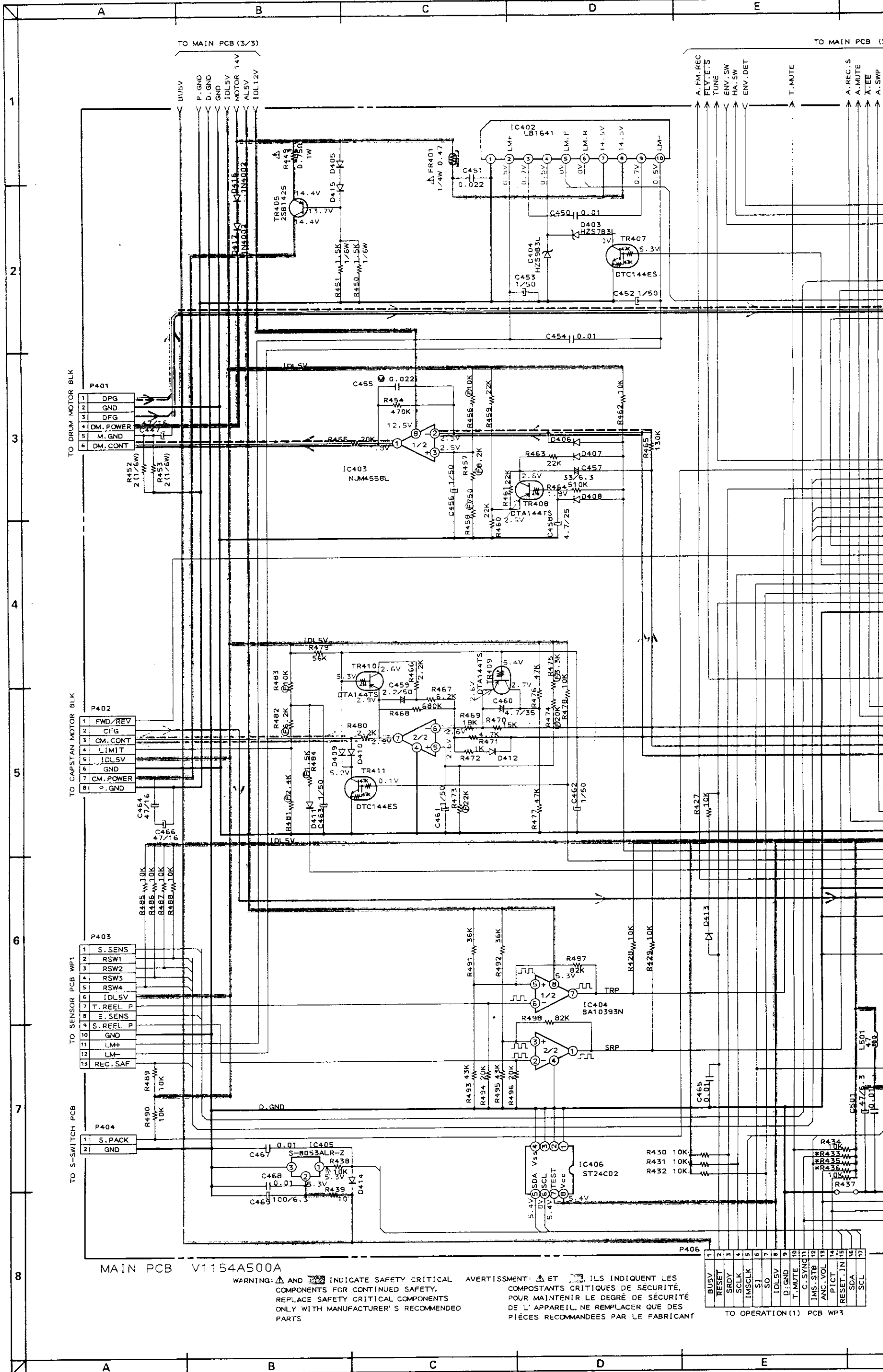


A/C HEAD PCB  
VII02B5120J1



S-SWITCH PCB  
VII54C5180

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



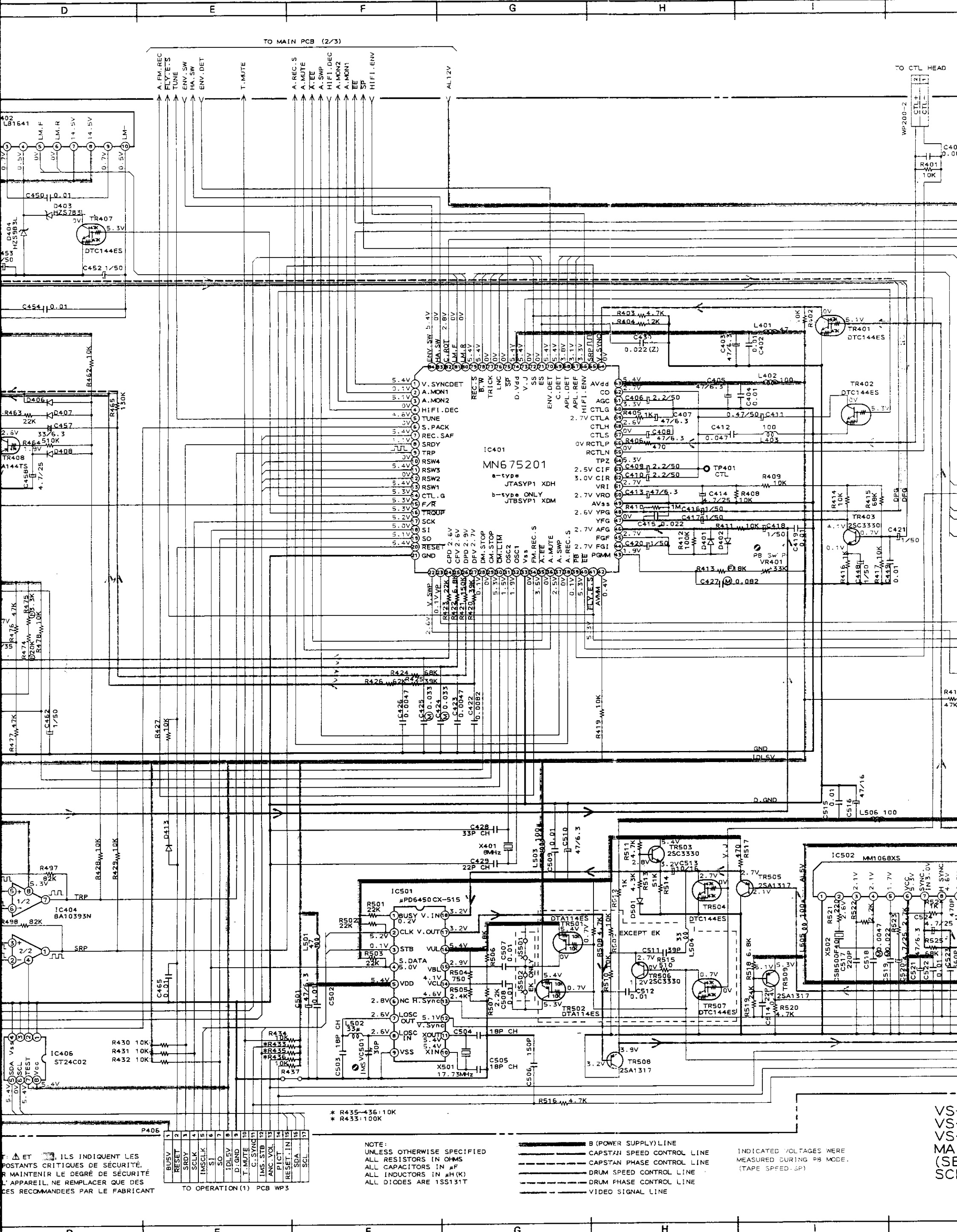
MAIN PCB V1154A500A

WARNING:  $\Delta$  AND  $\square$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT:  $\Delta$  ET  $\square$  ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

1	BUSV
2	RESET
3	SRDY
4	SCLK
5	IMSCLK
6	S1
7	SO
8	IDL5V
9	D.GND
10	T.MUTE
11	C.SYNCH
12	IMS.STB
13	ANC.VOL
14	PICT
15	RESET.IN
16	SDA
17	SCL

TO OPERATION (1) PCB WP3



TO MAIN PCB (2/3)

TO CTL HEAD

IC601  
MN675201  
a-type  
JTASYP1 XDH  
b-type ONLY  
JTBSYP1 XDM

1	SDA	15
2	RESET	16
3	SRDY	17
4	SCLK	18
5	INCLK	19
6	SO	20
7	IDLEV	21
8	D:GND	22
9	T:MUTE	23
10	C:SYNCH	24
11	INS:STB	25
12	ANC:VOL	26
13	PICT	27
14	RESET:IN	28
15	SDA	29
16	SCL	30

\* R435-436:10K  
\* R433:100K

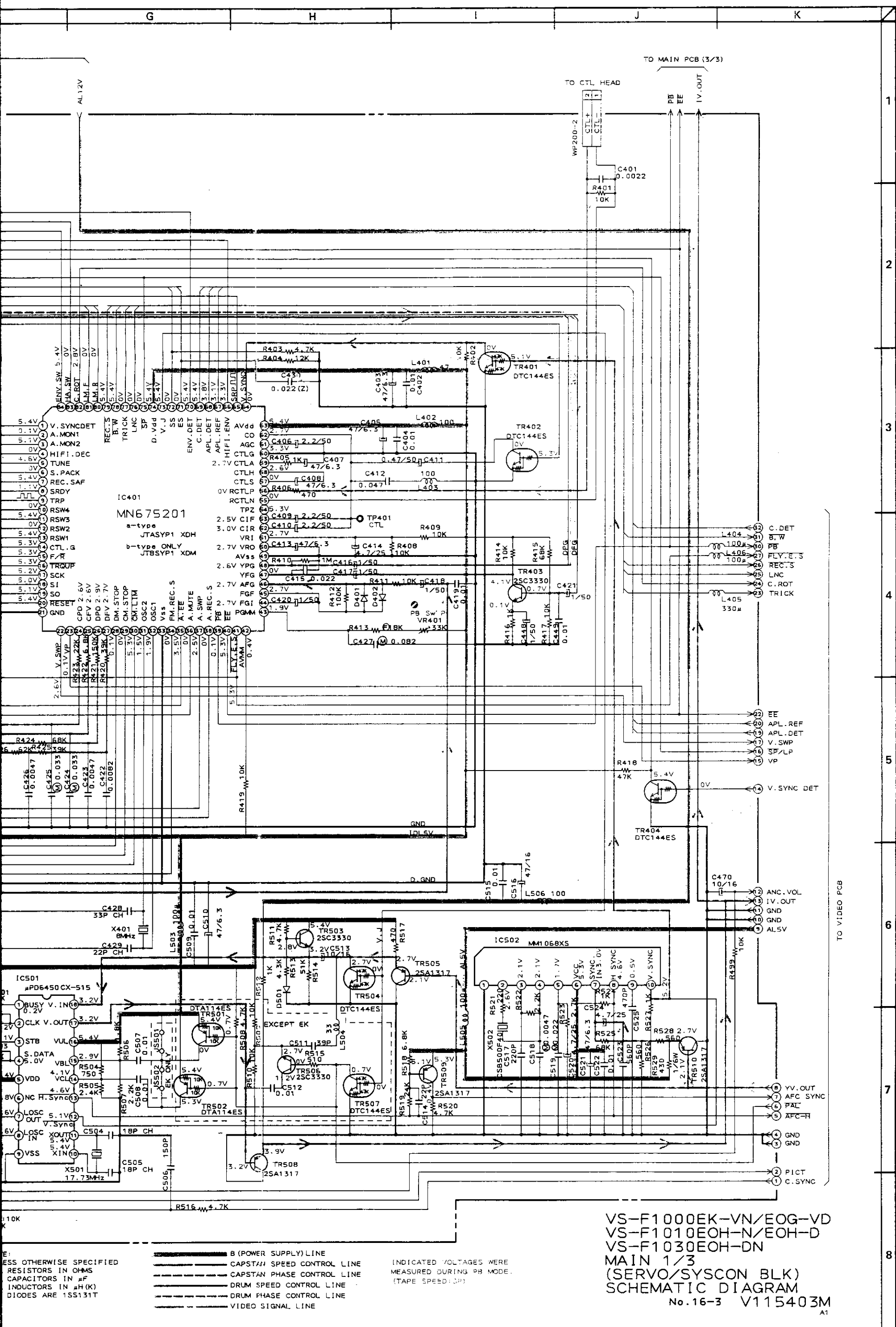
NOTE:  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS  
ALL CAPACITORS IN pF  
ALL INDUCTORS IN μH(K)  
ALL DIODES ARE 1SS131T

— B (POWER SUPPLY) LINE  
— CAPSTAN SPEED CONTROL LINE  
— CAPSTAN PHASE CONTROL LINE  
— DRUM PHASE CONTROL LINE  
— DRUM PHASE CONTROL LINE  
— VIDEO SIGNAL LINE

INDICATED VOLTAGES WERE  
MEASURED DURING PB MODE.  
(TAPE SPEED: 3P)

ET ILS INDIQUENT LES  
POSTANTS CRITIQUES DE SÉCURITÉ.  
MAINTENIR LE DEGRÉ DE SÉCURITÉ  
L'APPAREIL. NE REMPLACER QUE DES  
RECOMMANDÉES PAR LE FABRICANT

TO OPERATION (1) PCB WP3

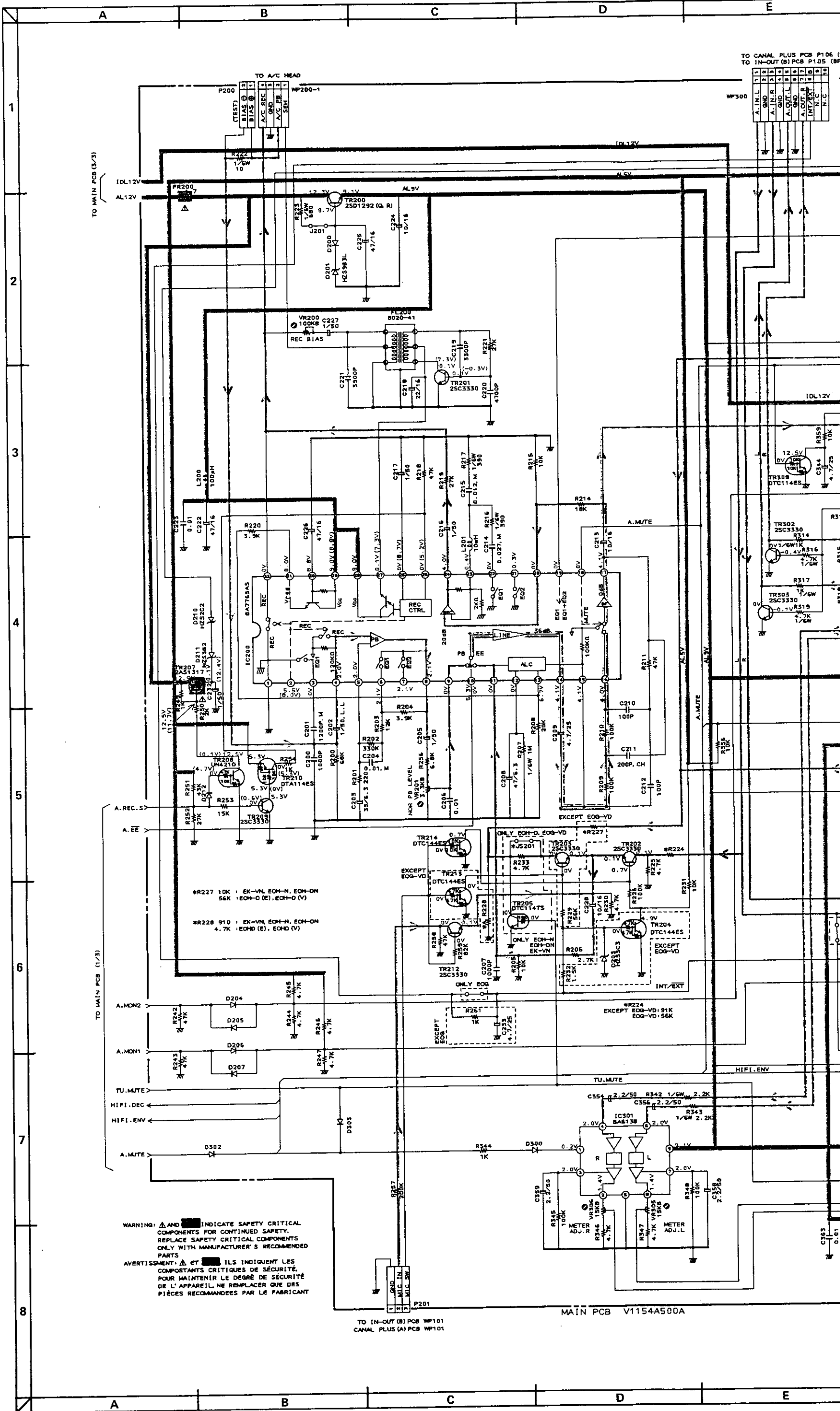


UNLESS OTHERWISE SPECIFIED  
RESISTORS IN OHMS  
CAPACITORS IN #F  
INDUCTORS IN #H(K)  
DIODES ARE 1SS131T

——— B (POWER SUPPLY) LINE  
 ——— CAPSTAN SPEED CONTROL LINE  
 ——— CAPSTAN PHASE CONTROL LINE  
 ——— DRUM SPEED CONTROL LINE  
 ——— DRUM PHASE CONTROL LINE  
 ——— VIDEO SIGNAL LINE

INDICATED VOLTAGES WERE  
MEASURED DURING PH MODE.  
(TAPE SPEED: 30P)

VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-N/EOH-D  
 VS-F1030EOH-DN  
 MAIN 1/3  
 (SERVO/SYSCON BLK)  
 SCHEMATIC DIAGRAM  
 No. 16-3 V115403M  
 A1



WARNING:  $\Delta$  AND  $\blacksquare$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT:  $\Delta$  ET  $\blacksquare$  ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACEZ QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

MAIN PCB V1154A500A

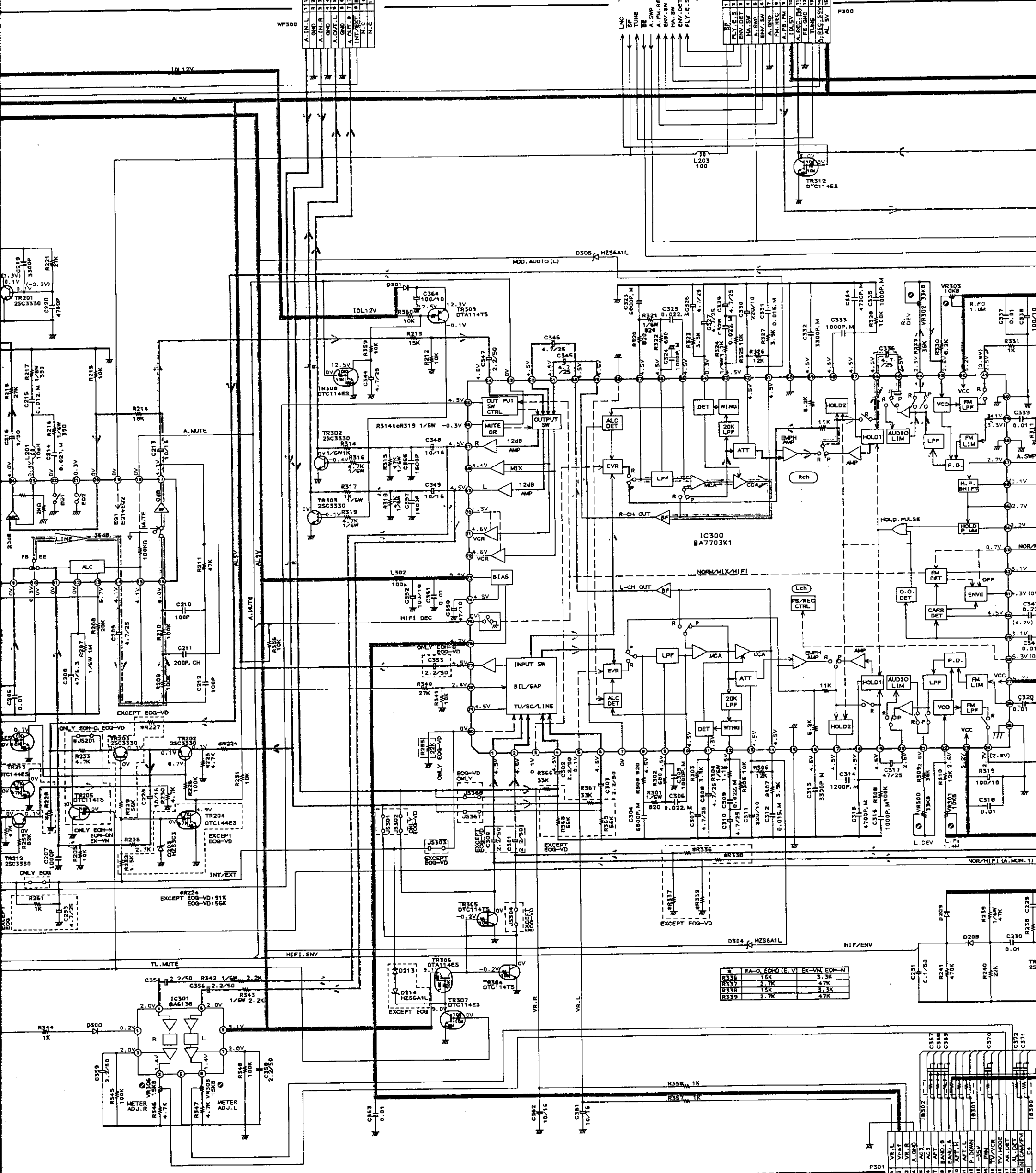
TO IN-OUT (B) PCB WP101  
CANAL PLUS (A) PCB WP101



TO CANAL PLUS PCB P106 (10P) EOG-V0  
 TO IN-OUT (B) PCB P105 (8P) EXCEPT EOG-V0

TO MAIN PCB (1/3)

TO PRE AMP PCB WP1

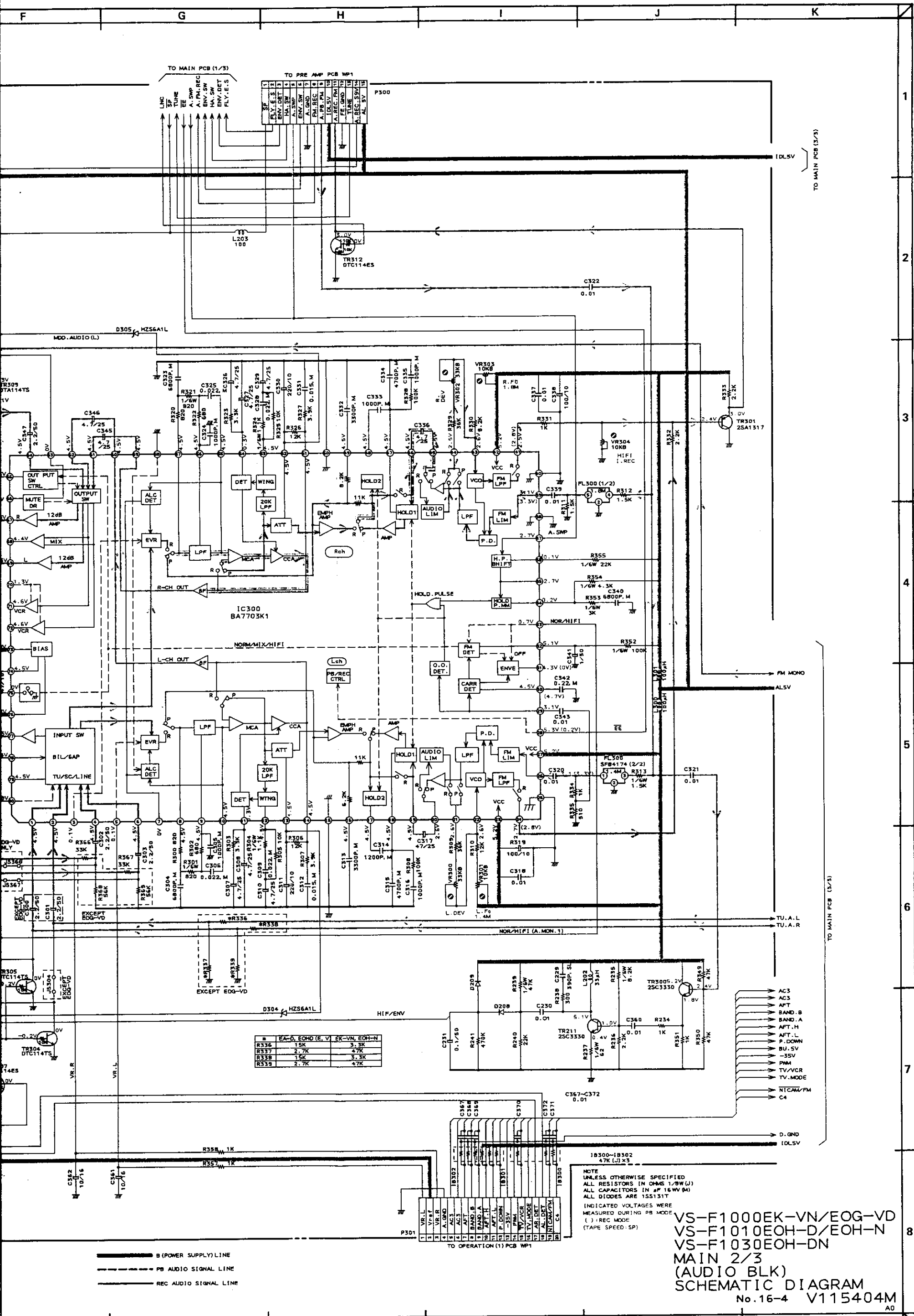


MAIN PCB V1154A500A

B (POWER SUPPLY) LINE  
 PS AUDIO SIGNAL LINE  
 REC AUDIO SIGNAL LINE

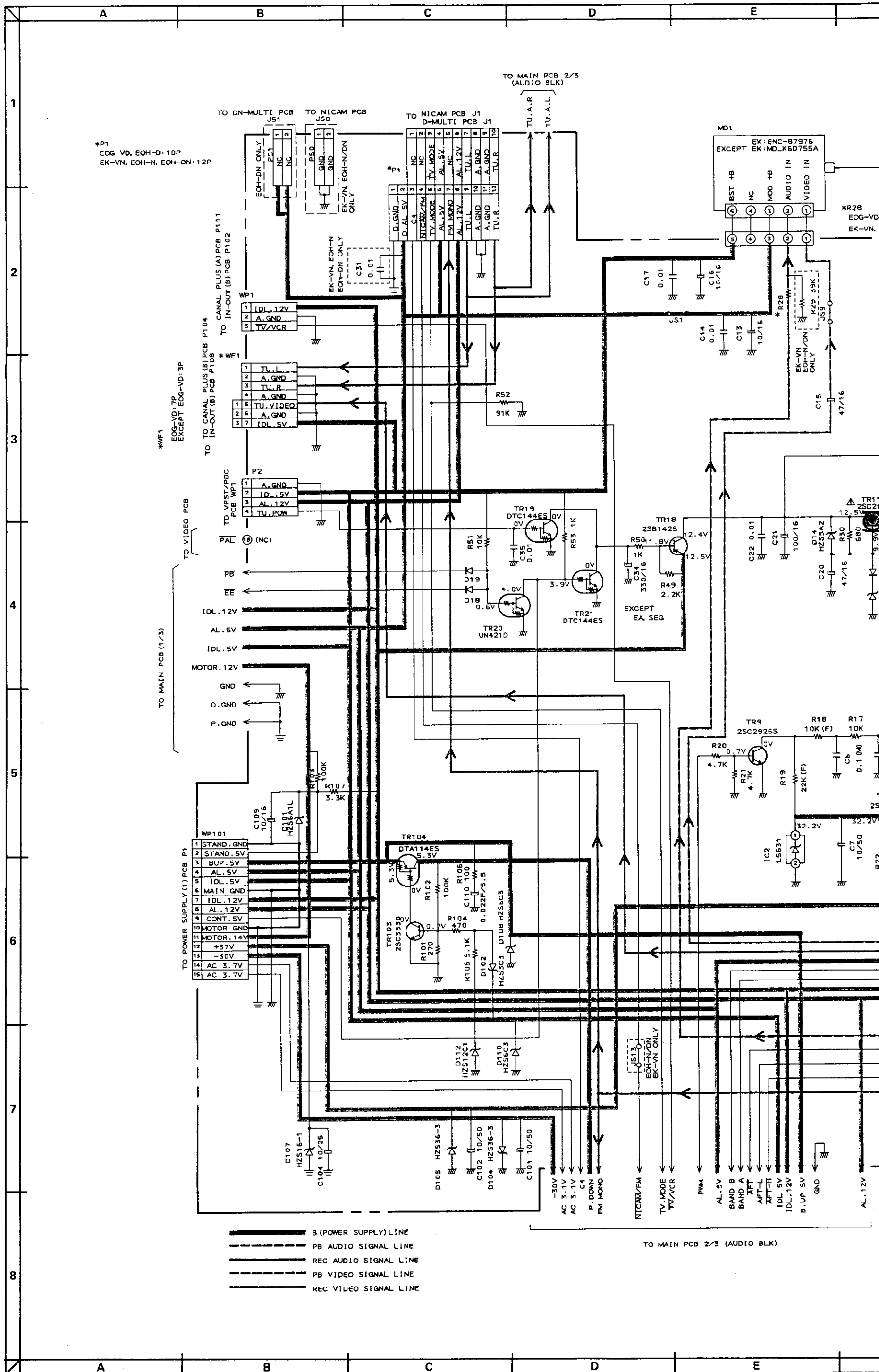
#	EA-D, EOG-V (E, V)	EK-VN, EOG-N
R336	15K	3.3K
R337	2.7K	4.7K
R338	15K	3.3K
R339	2.7K	4.7K

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VR-L	VR-R	VR-F	VR-B	VR-T	VR-M	VR-N	VR-O	VR-P	VR-Q	VR-R	VR-S	VR-T	VR-U	VR-V	VR-W	VR-X	VR-Y	VR-Z	VR-AA



VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 MAIN 2/3  
 (AUDIO BLK)  
 SCHEMATIC DIAGRAM  
 No. 16-4 V115404M  
 A0

1  
2  
3  
4  
5  
6  
7  
8  
13



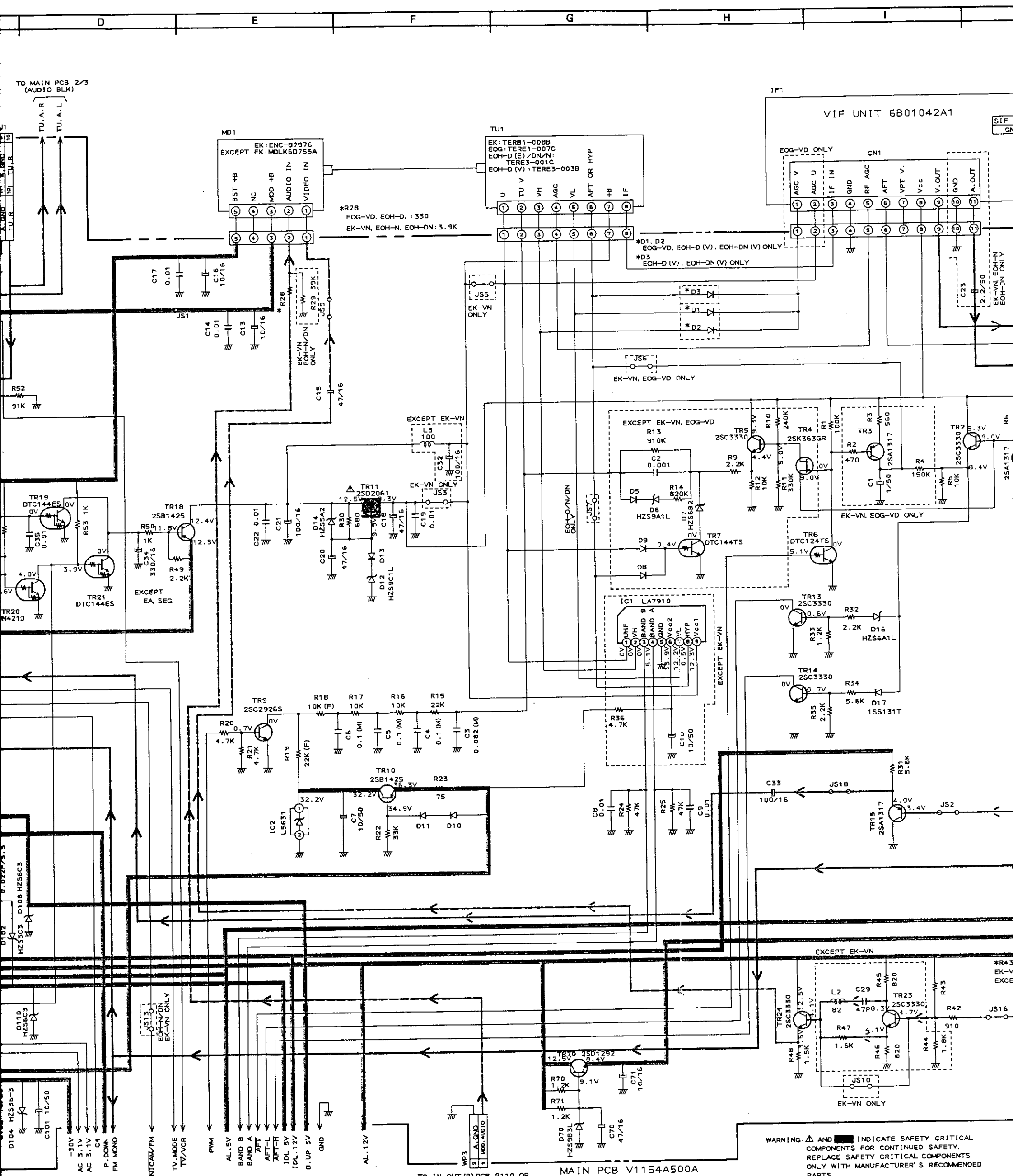
\*P1  
EOG-VD, EOH-D: 10P  
EK-VN, EOH-N, EOH-DN: 12P

\*WF1  
EOG-VD: 7P  
EXCEPT EOG-VO: 3P

TO MAIN PCB (1/3)

- B (POWER SUPPLY) LINE
- - - PB AUDIO SIGNAL LINE
- · - REC AUDIO SIGNAL LINE
- · · PB VIDEO SIGNAL LINE
- - - REC VIDEO SIGNAL LINE

TO MAIN PCB 2/3 (AUDIO BLK)



TO MAIN PCB 2/3 (AUDIO BLK)

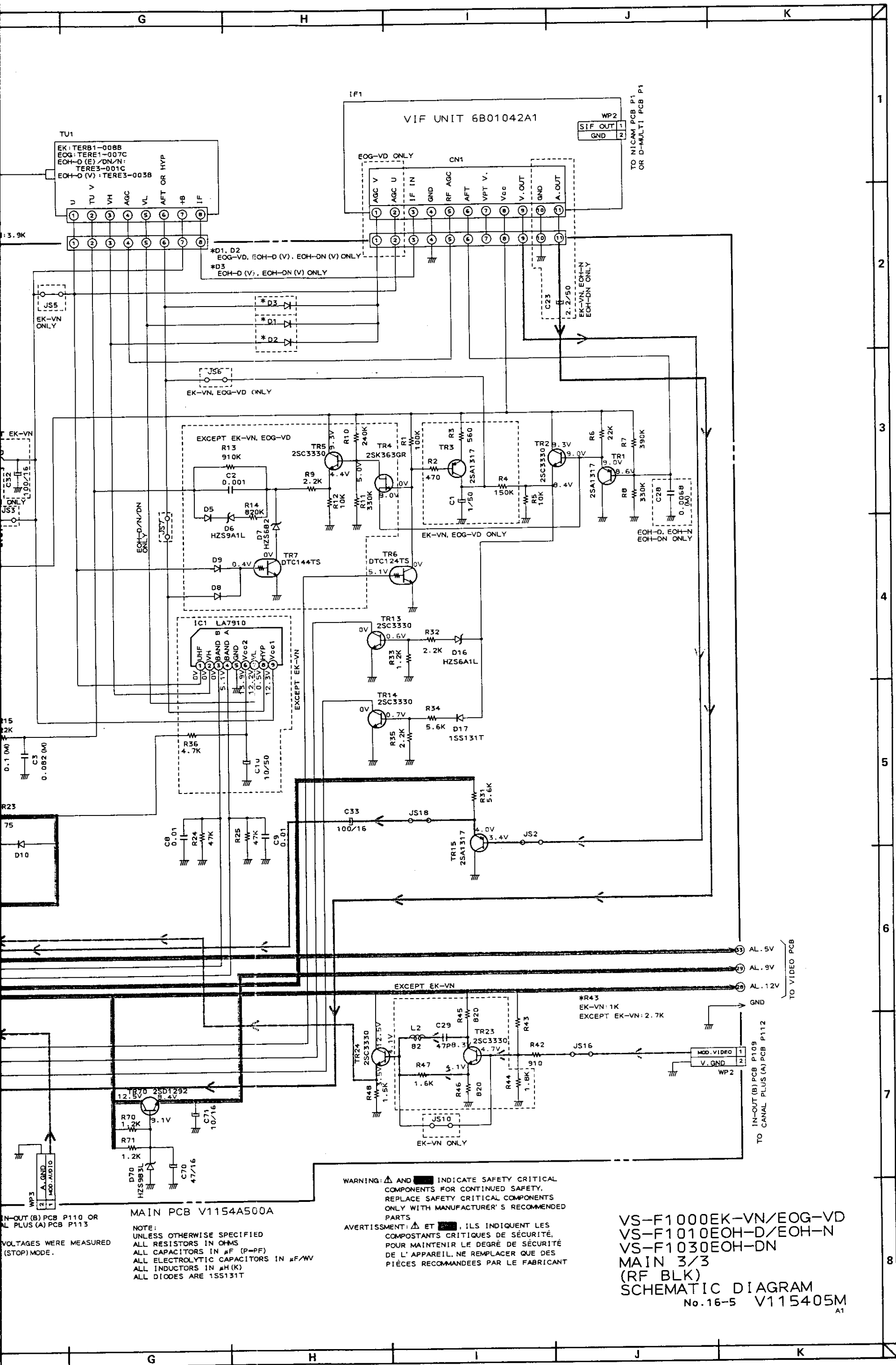
INDICATED VOLTAGES WERE MEASURED DURING E-E (STOP) MODE.

NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS ALL CAPACITORS IN  $\mu$ F (P-PF) ALL ELECTROLYTIC CAPACITORS IN  $\mu$ F/W ALL INDUCTORS IN  $\mu$ H(K) ALL DIODES ARE 1SS131T

WARNING:  $\Delta$  AND  $\square$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
 AVERTISSEMENT:  $\Delta$  ET  $\square$  ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

TO IN-OUT (B) PCB P110 OR CANAL PLUS (A) PCB P113

MAIN PCB V1154A500A



MAIN PCB V1154A500A

NOTE:  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS  
 ALL CAPACITORS IN P-F (P-PF)  
 ALL ELECTROLYTIC CAPACITORS IN #F/W  
 ALL INDUCTORS IN #H(K)  
 ALL DIODES ARE 1SS131T

WARNING:  $\Delta$  AND  $\blacksquare$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  ET  $\blacksquare$  ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 MAIN 3/3  
 (RF BLK)  
 SCHEMATIC DIAGRAM  
 No.16-5 V115405M  
 A1

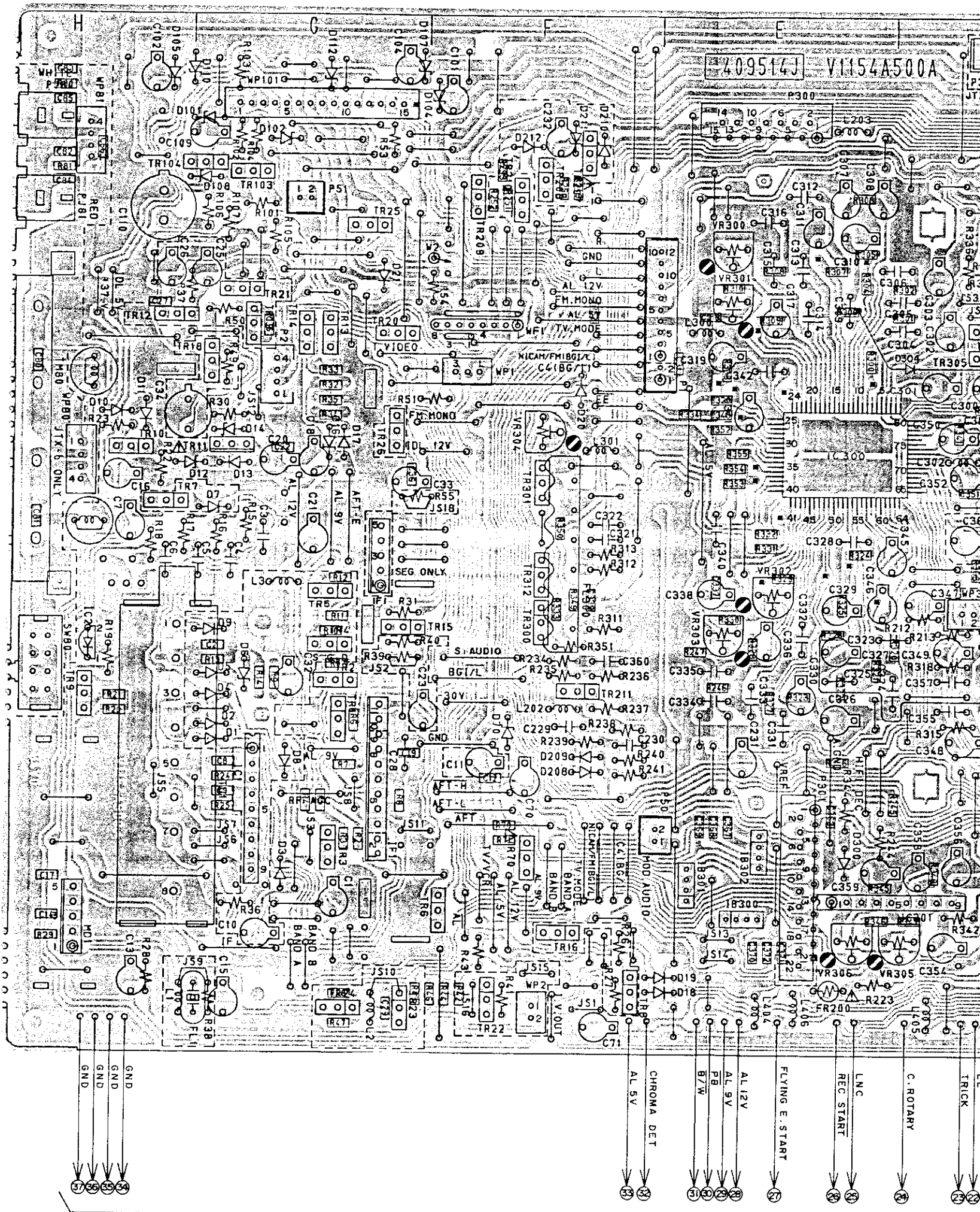
IN-OUT (B) PCB P110 OR PLUS (A) PCB P113

VOLTAGES WERE MEASURED (STOP) MODE.

TO VIDEO PCB  
 AL. 5V  
 AL. 9V  
 AL. 12V  
 GND

TO CANAL PLUS (A) PCB P112  
 IN-OUT (B) PCB P109  
 V. GND

1  
2  
3  
4  
5  
6  
7  
8

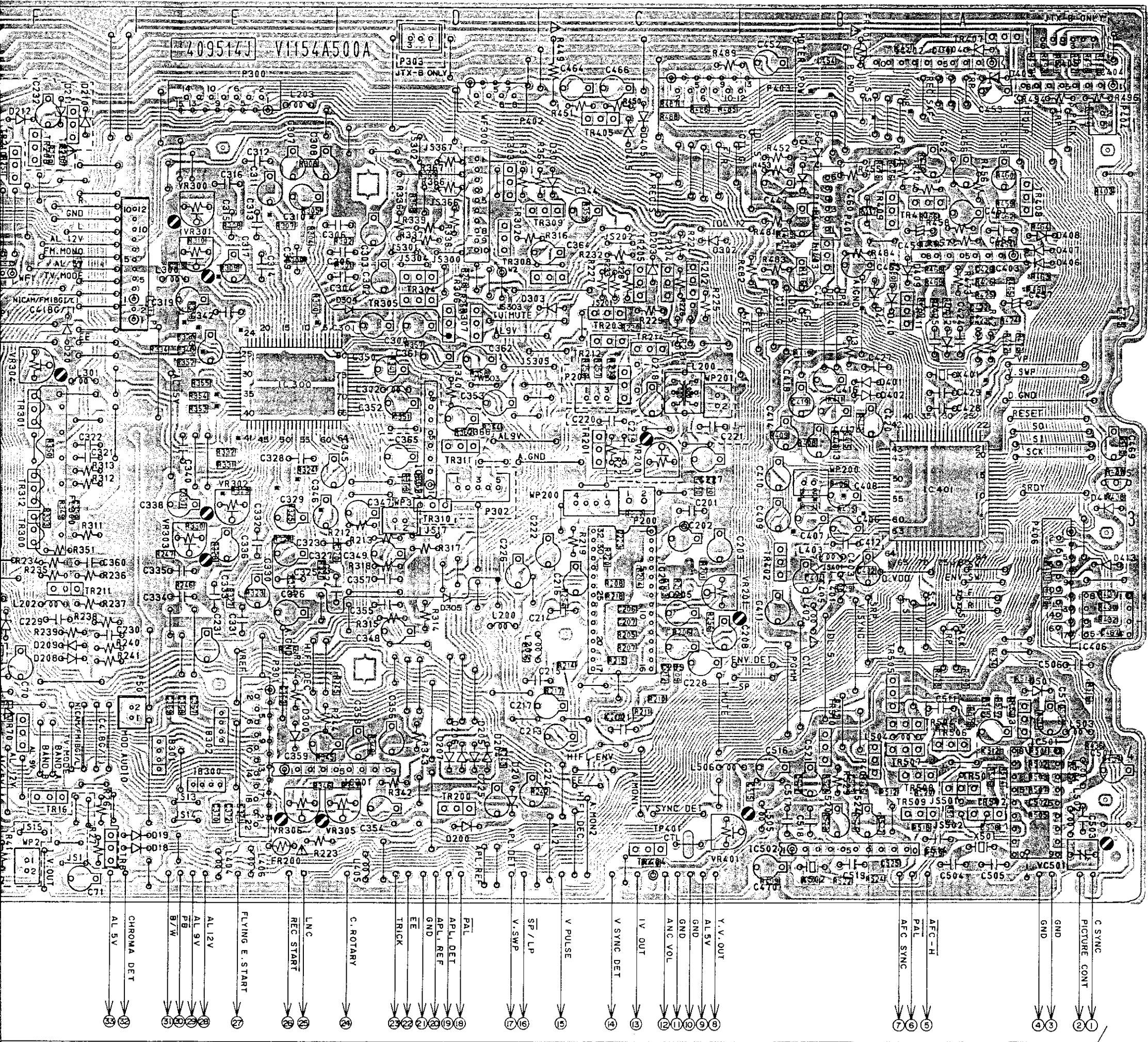


TO VIDEO PCB

MAIN PCB VII

WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

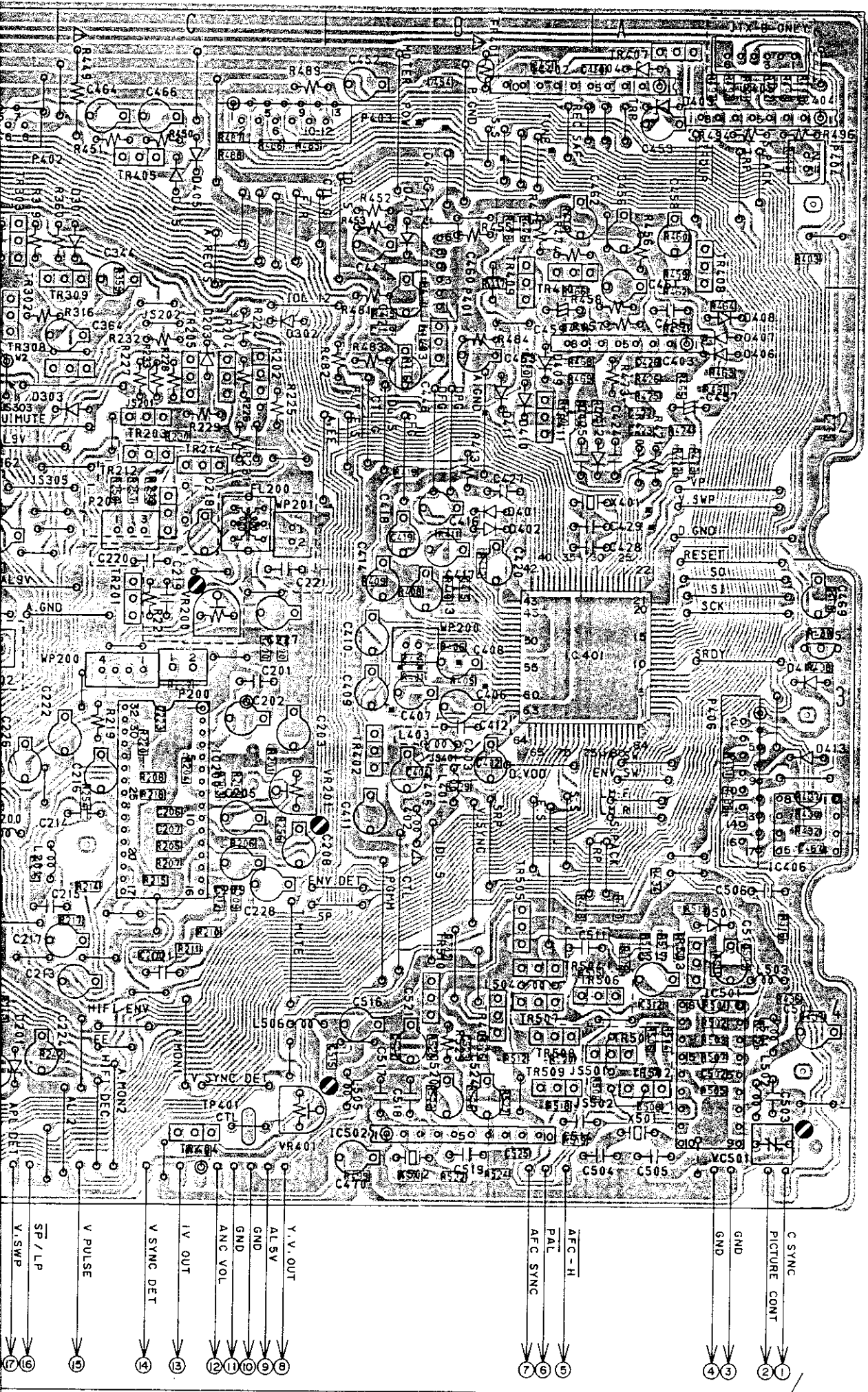
AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



TO VIDEO PCB

MAIN PCB V1154A500A

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.

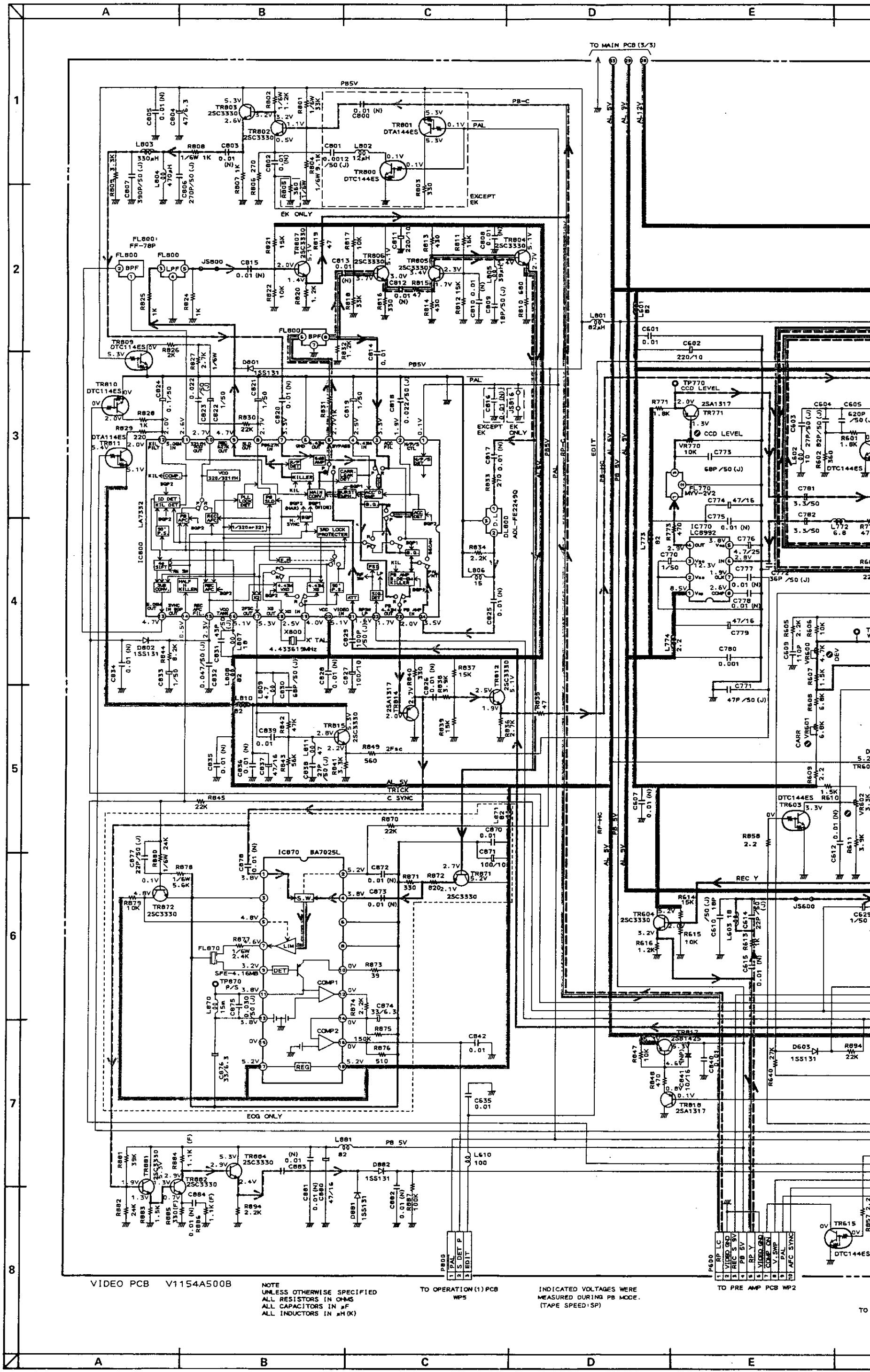


**PRINCIPAL PARTS LOCATION**

<b>ICs</b>			
IC1 .....	G4	TR21 .....	G2
IC2 .....	H3	TR22 .....	F4
IC200 .....	C3,4	TR23 .....	G4
IC300 .....	E2	TR24 .....	G4
IC301 .....	D,E4	TR25 .....	G1
IC302 .....	D2,3	TR26 .....	G2
IC401 .....	A,B3	TR70 .....	F4
IC402 .....	A,B1	TR103 .....	G1
IC403 .....	A,B2	TR104 .....	G1
IC404 .....	A1	TR200 .....	D4
IC405 .....	A3	TR201 .....	C3
IC406 .....	A3	TR202 .....	C2
IC501 .....	A4	TR203 .....	C2
IC502 .....	B4	TR204 .....	C2
		TR205 .....	C2
<b>WIRES</b>			
WF1,1A,1B .....	F2	TR207 .....	F1
WF300,300A .....	D1,2	TR208 .....	F1
		TR209 .....	F1
		TR210 .....	F1
		TR211 .....	F3
<b>CONNECTORS</b>			
P1,1A .....	E,F2	TR212 .....	C2
P2 .....	G2	TR213 .....	C2
P50 .....	E,F4	TR214 .....	C2
P51 .....	G1	TR300 .....	F3
P200 .....	C3	TR301 .....	F2
P201 .....	C2	TR302 .....	D2
P300 .....	E1	TR303 .....	D1
P301,301A .....	E4	TR304 .....	D2
P302 .....	D3	TR305 .....	D2
P303 .....	D1	TR306 .....	D2
P401 .....	B1,2	TR307 .....	D2
P402 .....	D1	TR308 .....	C2
P403 .....	B,C1	TR309 .....	C1,D1
P404 .....	A1	TR310 .....	D3
P405 .....	A1	TR311 .....	D3
P406 .....	A3	TR312 .....	F3
		TR401 .....	B4
		TR402 .....	B3
		TR403 .....	B2
		TR404 .....	C4
		TR405 .....	C1
		TR407 .....	A1
		TR408 .....	A1
		TR409 .....	B1,2
		TR410 .....	A,B1
		TR411 .....	B2
		TR501 .....	A4
		TR502 .....	A4
		TR503 .....	A4
		TR504 .....	B4
		TR505 .....	B4
		TR506 .....	A4
		TR507 .....	B4
		TR508 .....	B4
		TR509 .....	B4
		TR510 .....	B4
		TR20 .....	G2

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.





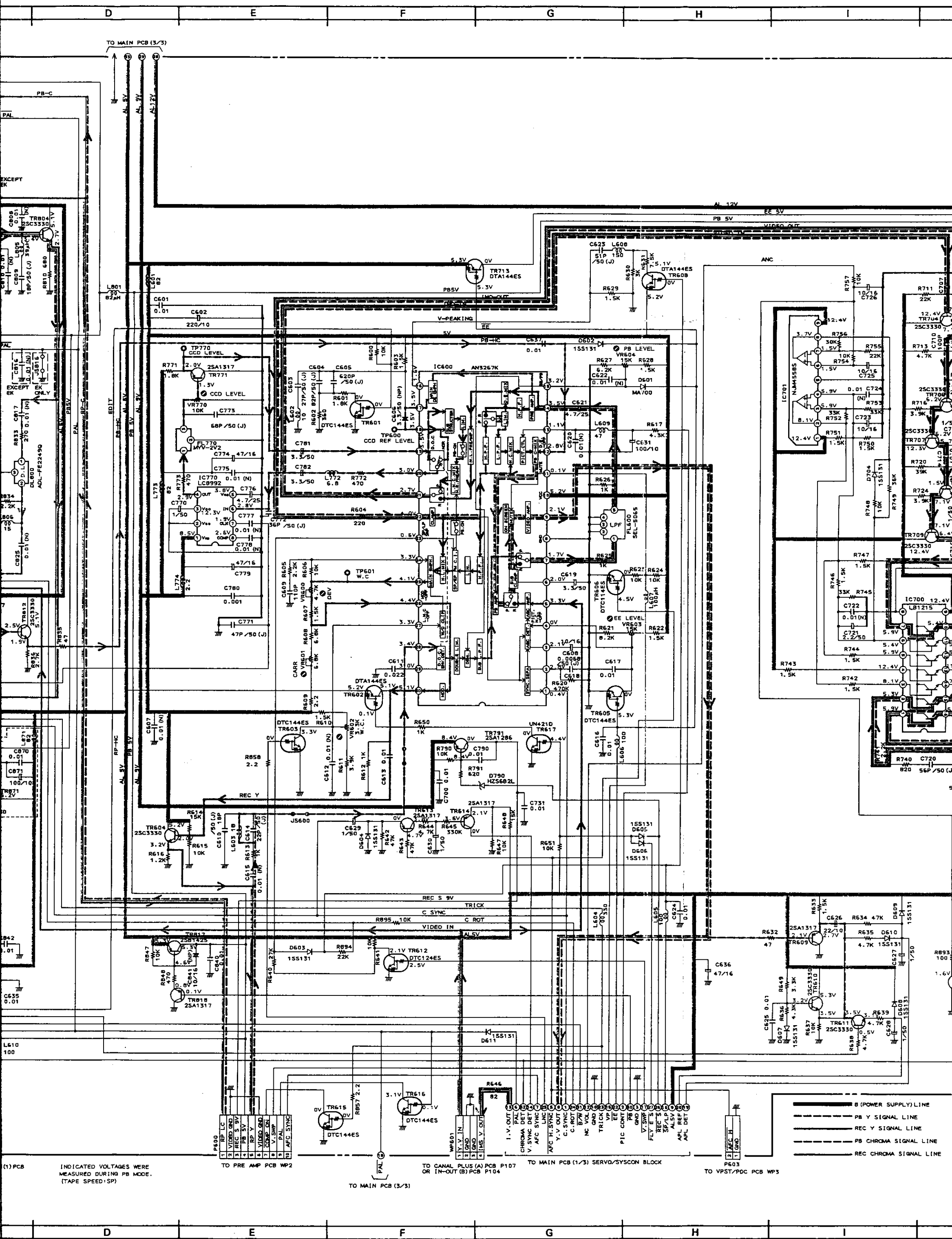
VIDEO PCB V1154A500B

NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS  
ALL CAPACITORS IN pF  
ALL INDUCTORS IN μH(K)

TO OPERATION (1) PCB  
WP5

INDICATED VOLTAGES WERE  
MEASURED DURING PB MODE.  
(TAPE SPEED 15P)

TO PRE AMP PCB WP2



(1) PCB INDICATED VOLTAGES WERE MEASURED DURING PB MODE. (TAPE SPEED: SP)

TO PRE AMP PCB WP2

TO MAIN PCB (3/3)

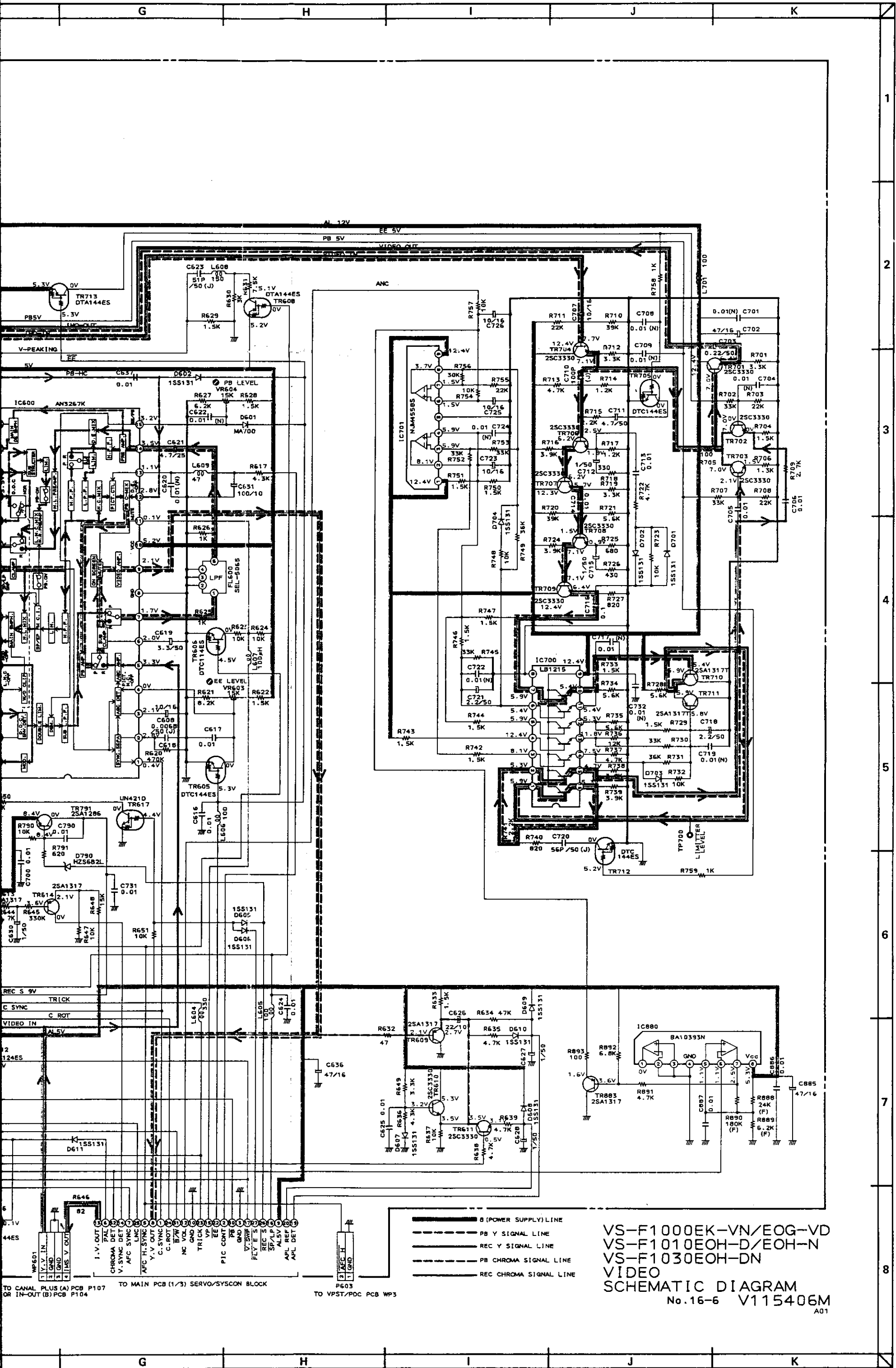
TO CANAL PLUS (A) PCB P107 OR IN-OUT (B) PCB P104

TO MAIN PCB (1/3) SERVO/SYSCON BLOCK

TO VPST/PDC PCB WP3

- B (POWER SUPPLY) LINE
- PB Y SIGNAL LINE
- REC Y SIGNAL LINE
- PB CHROMA SIGNAL LINE
- REC CHROMA SIGNAL LINE

1	BP LC	100
2	VIDEO END	100
3	REC 5V	100
4	REC 5V	100
5	REC 5V	100
6	VIDEO GND	100
7	VIDEO GND	100
8	VIDEO GND	100
9	AFC SYNC	100
10	AFC SYNC	100



- (POWER SUPPLY) LINE
- PB Y SIGNAL LINE
- REC Y SIGNAL LINE
- PB CHROMA SIGNAL LINE
- REC CHROMA SIGNAL LINE

TO CANAL PLUS (A) PCB P107  
 OR IN-OUT (B) PCB P104

TO MAIN PCB (1/3) SERVO/SYSCON BLOCK

TO VPST/POC PCB WP3

1

2

3

4

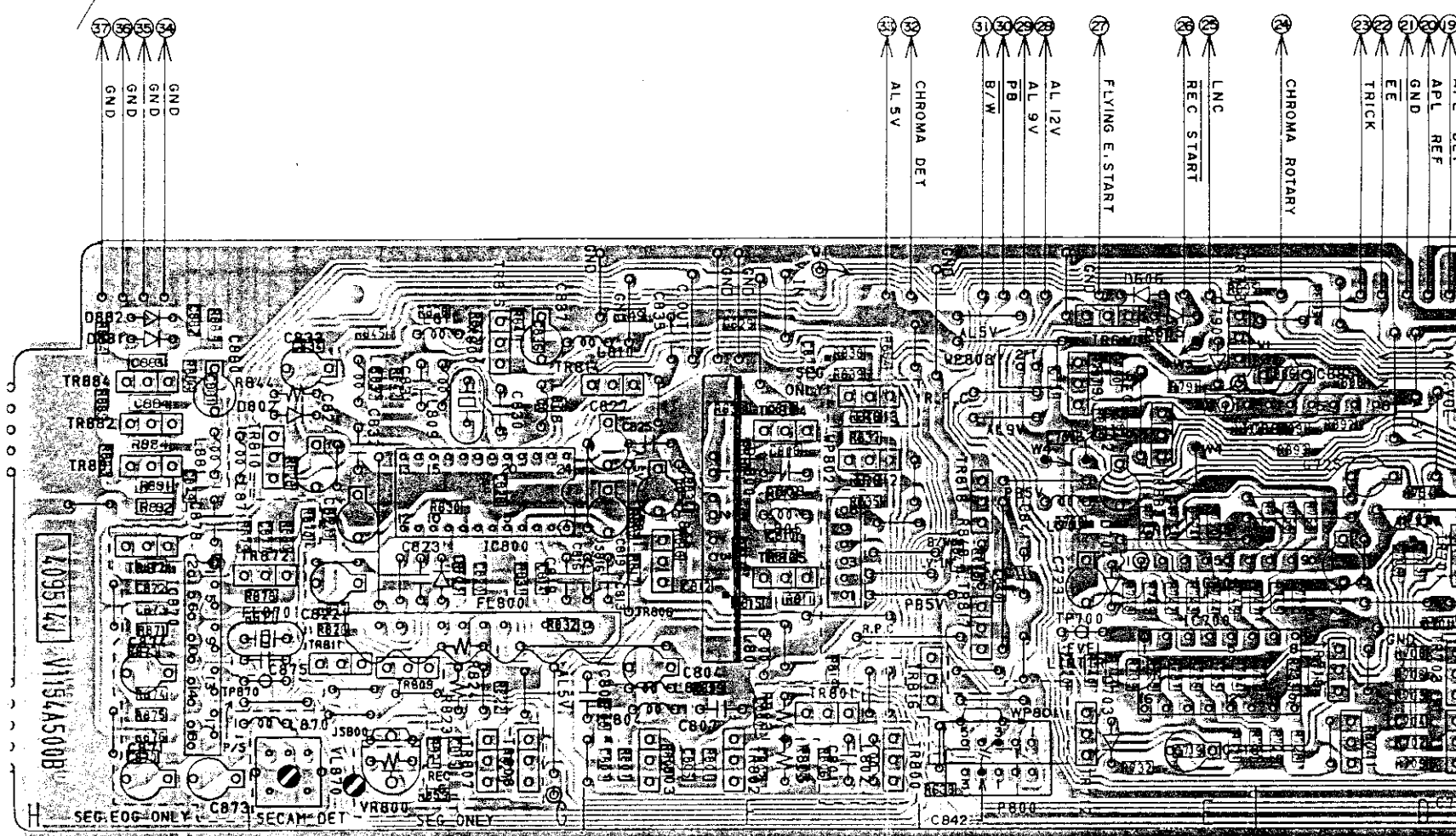
5

6

7

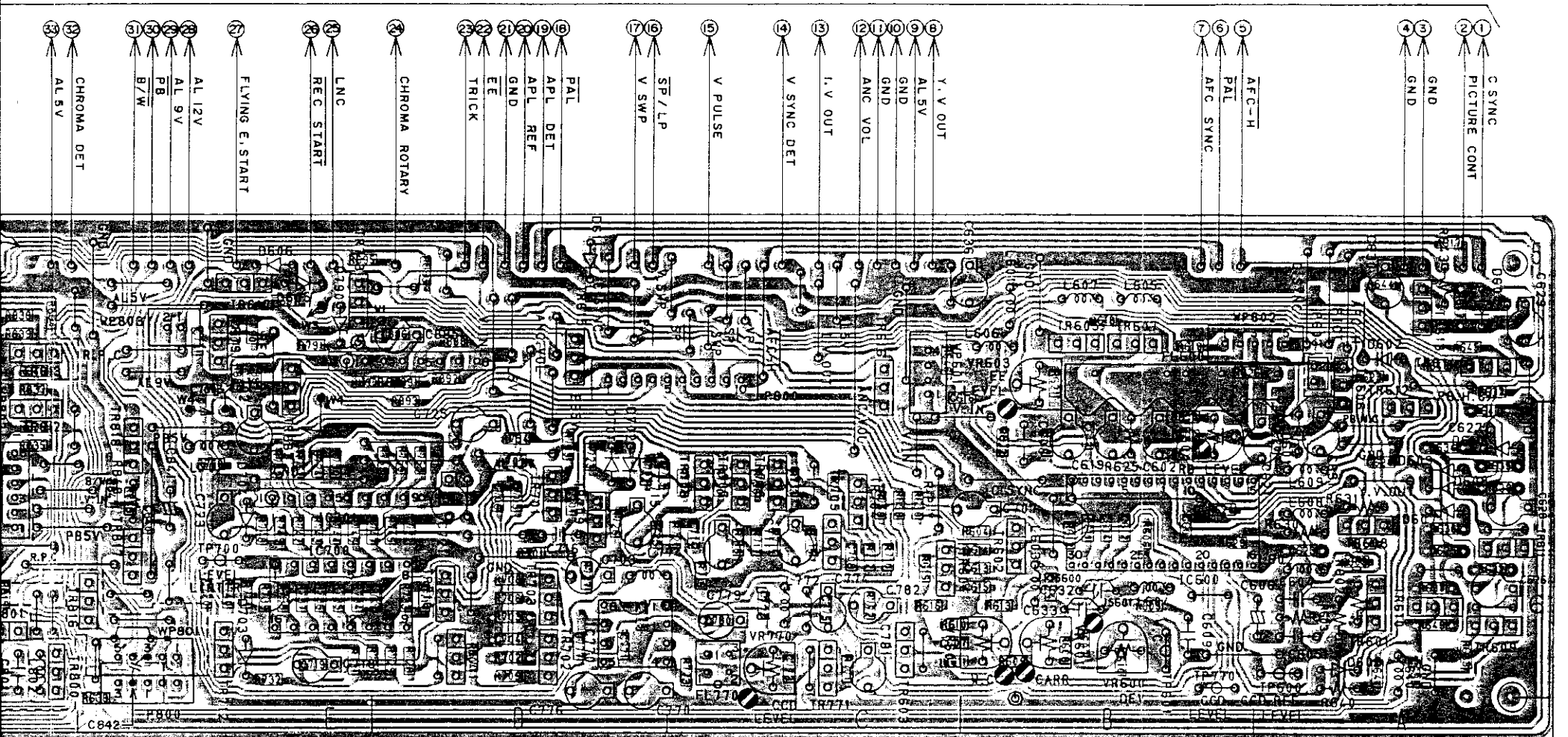
8

TO MAIN PCB



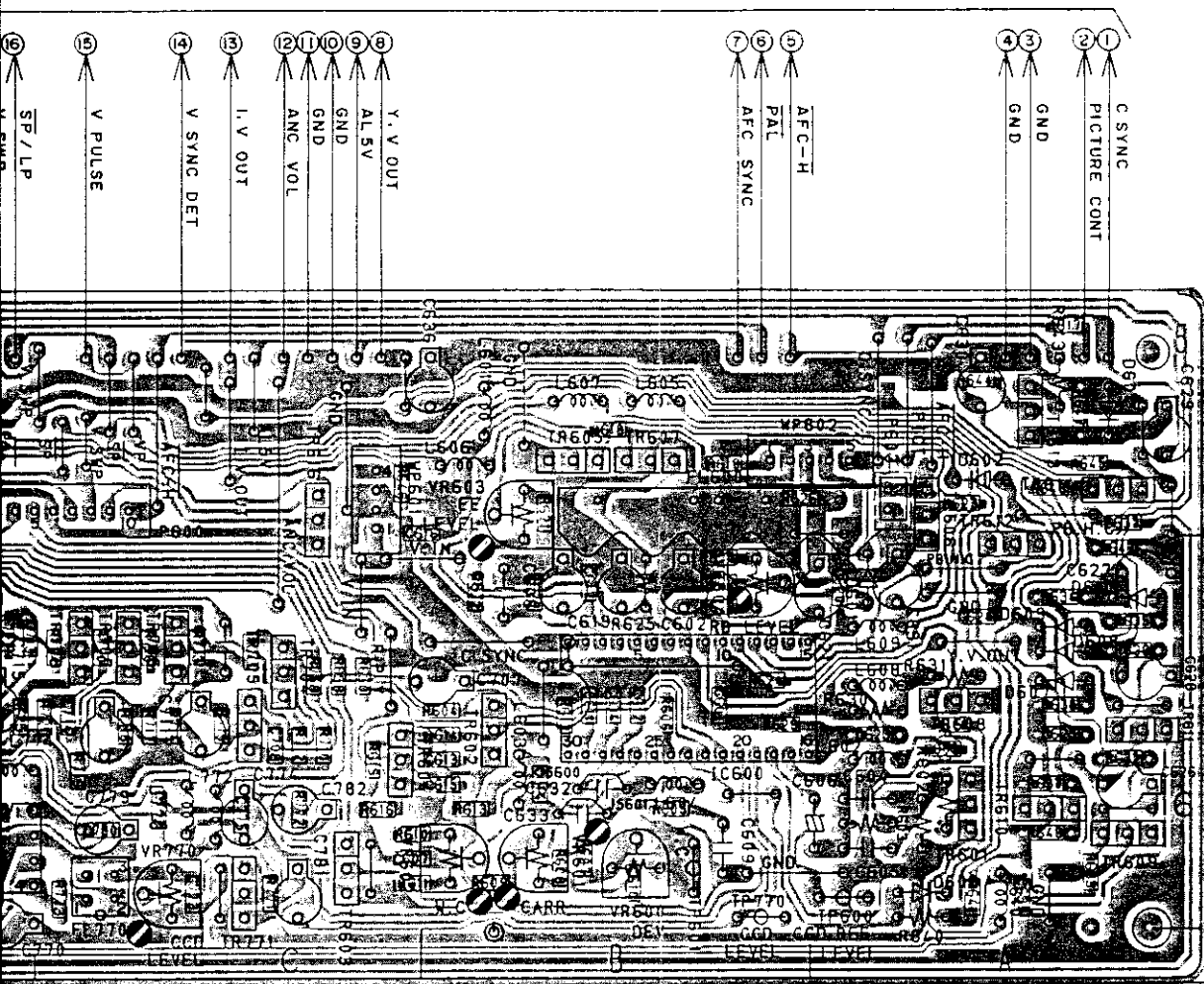
VIDEO PCB VII54

TO MAIN PCB



VIDEO PCB VII54A500B

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.

### PRINCIPAL PARTS LOCATION

#### ICs

IC600	.....	B6
IC700	.....	D,E6
IC701	.....	D,E6
IC770	.....	D6
IC800	.....	G6
IC870	.....	H6
IC880	.....	D,E5

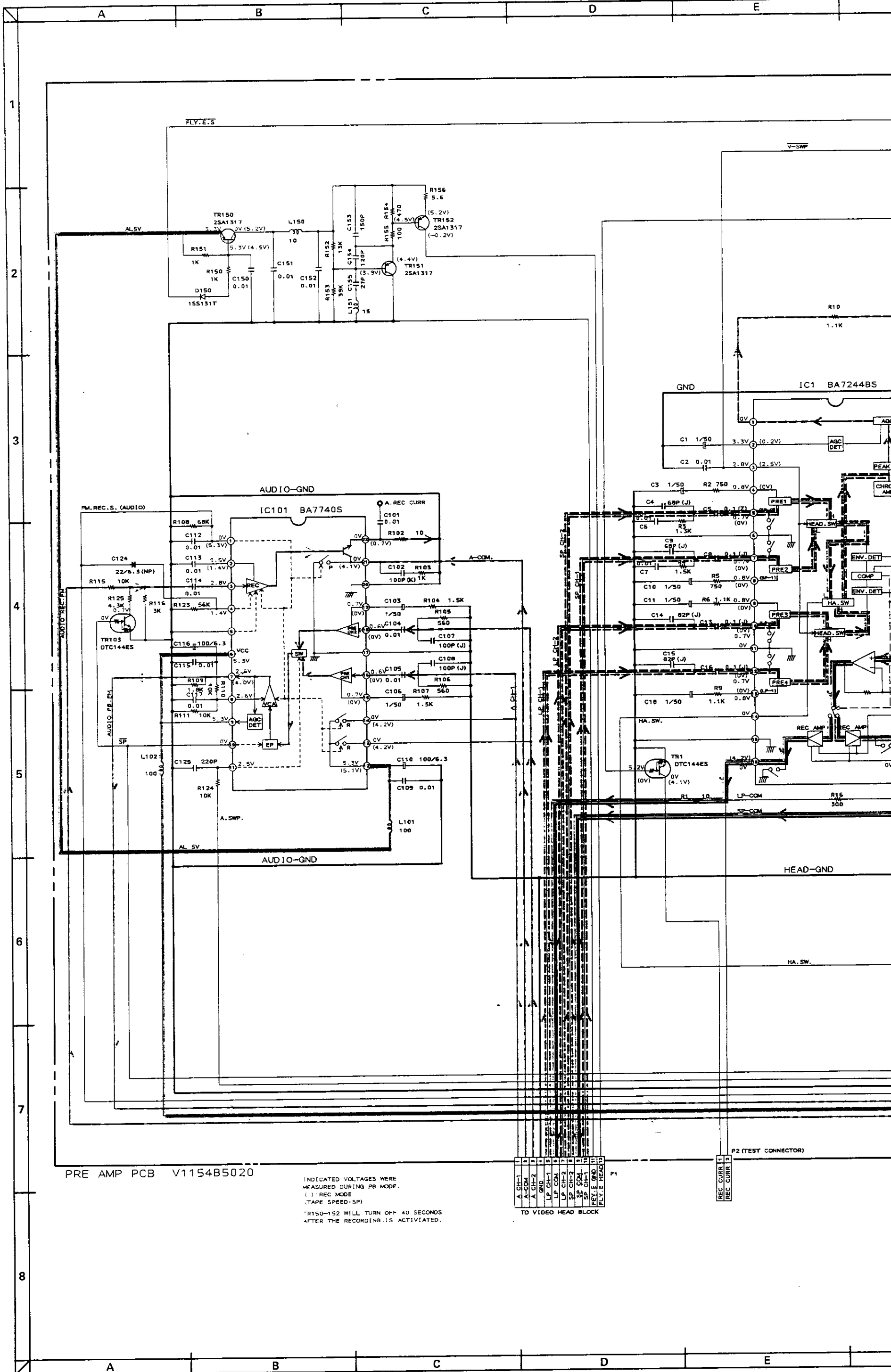
#### CONNECTORS

P600	.....	C,D5
P603	.....	A5
P800,800A	.....	E6

#### TRANSISTORS

TR601	.....	A6
TR602	.....	B6
TR603	.....	C6
TR604	.....	C6
TR605	.....	B5
TR606	.....	A5,6
TR607	.....	B5
TR608	.....	A6
TR609	.....	A6
TR610	.....	A6
TR611	.....	A6
TR612	.....	A6
TR613	.....	A5
TR614	.....	A5
TR615	.....	D5
TR616	.....	C5,6
TR617	.....	E5
TR701	.....	D6
TR702	.....	D6
TR703	.....	D6
TR704	.....	C6

TR705	.....	C6
TR706	.....	C6
TR707	.....	C6
TR708	.....	C6
TR709	.....	D6
TR710	.....	D6
TR711	.....	D6
TR712	.....	E6
TR713	.....	E5
TR771	.....	C6
TR791	.....	E5
TR800	.....	F6
TR801	.....	F6
TR802	.....	F6
TR803	.....	F6
TR804	.....	F5
TR805	.....	F6
TR806	.....	F6
TR807	.....	G6
TR808	.....	G6
TR809	.....	G6
TR810	.....	G5,6
TR811	.....	G6
TR812	.....	F6
TR813	.....	F5
TR814	.....	F5
TR815	.....	G5
TR816	.....	E6
TR817	.....	E6
TR818	.....	E6
TR871	.....	H6
TR872	.....	G6
TR881	.....	H6
TR882	.....	H5
TR883	.....	E5
TR884	.....	H5

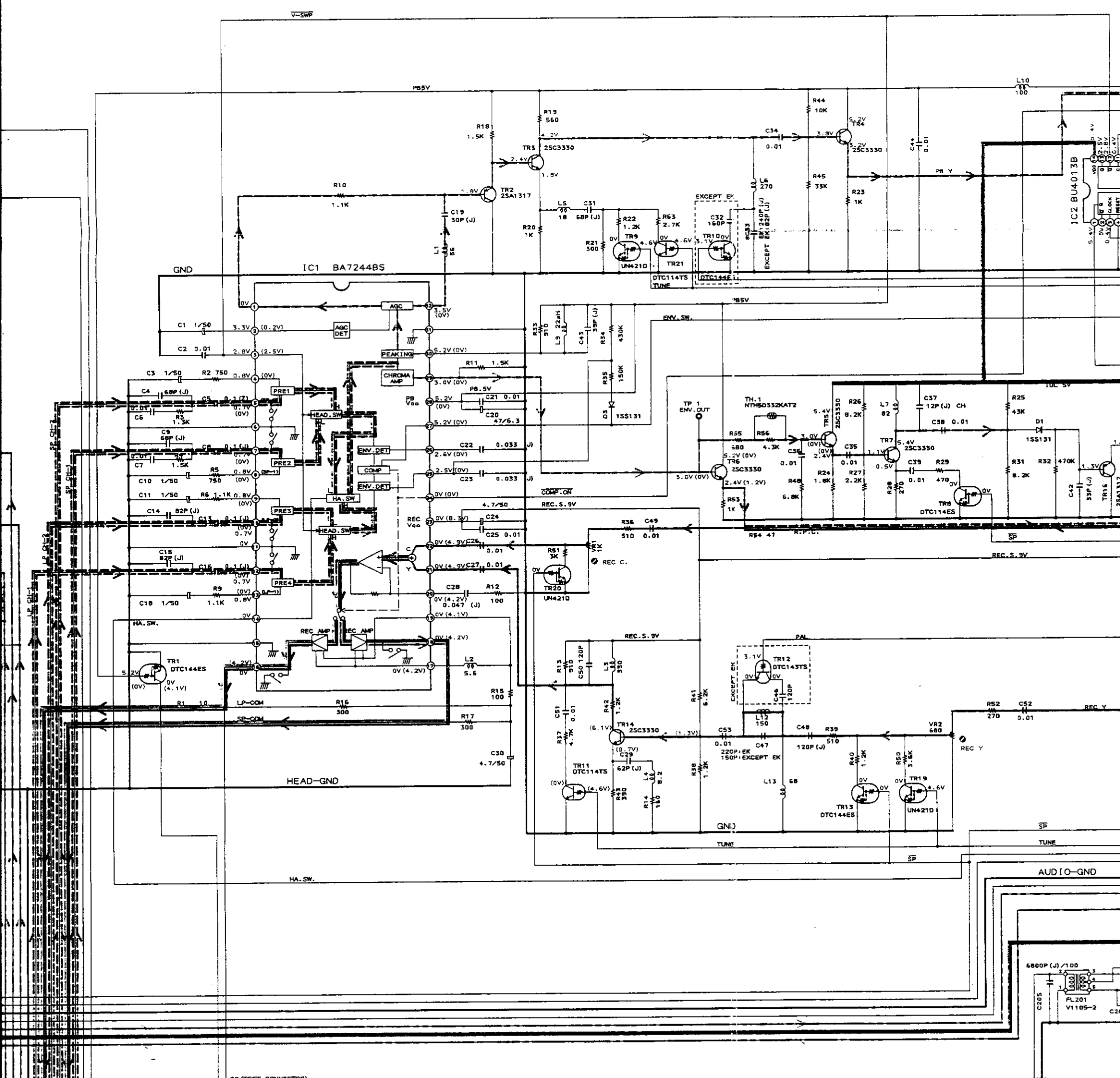


PRE AMP PCB V1154B5020

INDICATED VOLTAGES WERE MEASURED DURING PB MODE.  
 ( ) : REC MODE  
 \*TAPE SPEED (SP)  
 \*TR150-152 WILL TURN OFF 40 SECONDS AFTER THE RECORDING IS ACTIVATED.

A CH-1	1
A COM	2
A CH-2	3
GND	4
LP COM	5
LP CH-1	6
LP CH-2	7
SP COM	8
SP CH-1	9
SP CH-2	10
FLY E END	11
FLY E HEAD	12

REC CURR 1	1
REC CURR 2	2



TO VIDEO HEAD BLOCK

REC CURR 1  
REC CURR 2

P2 (TEST CONNECTOR)

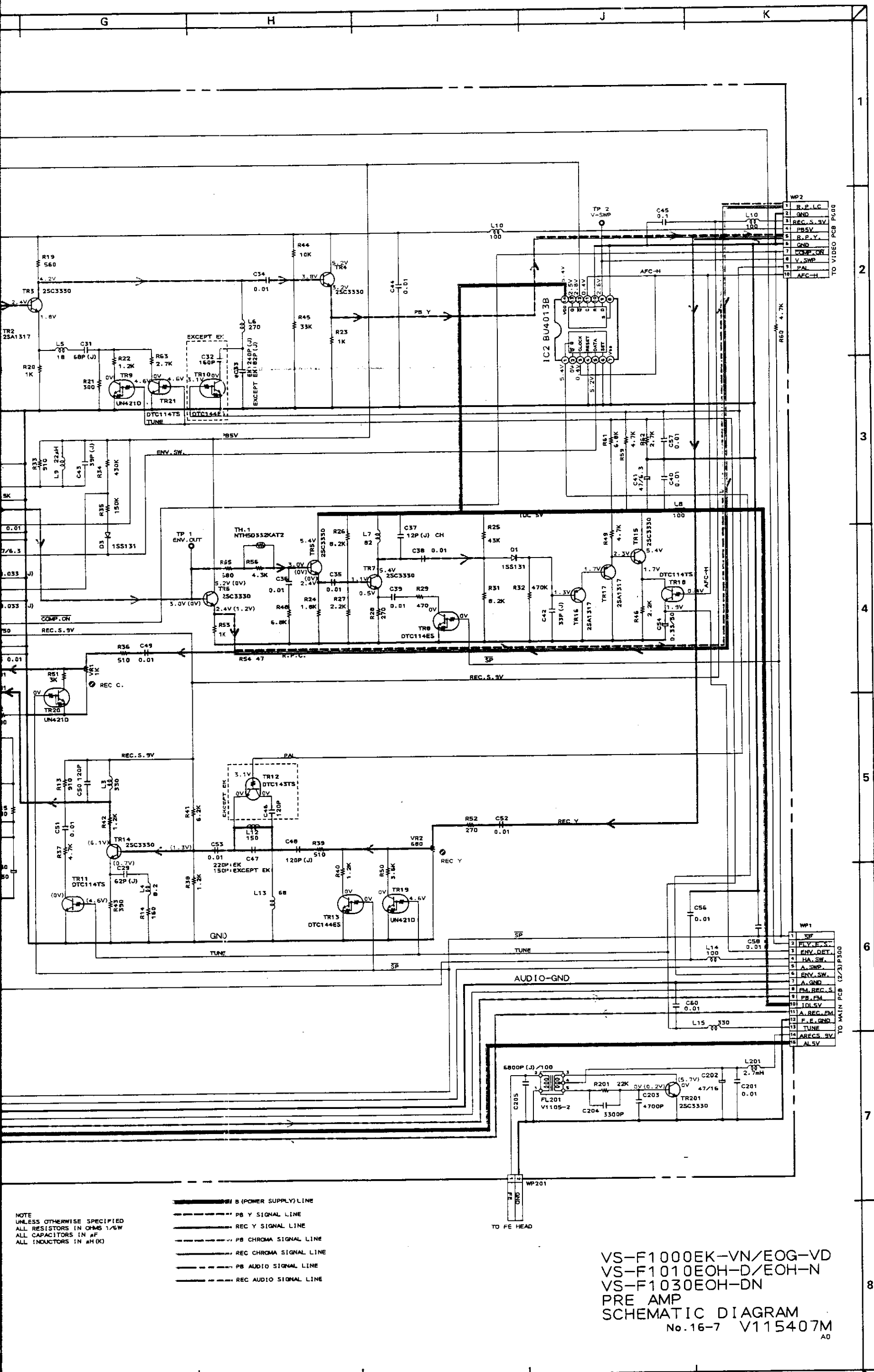
REC CURR 1  
REC CURR 2

TO FE HEAD

NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/6W  
ALL CAPACITORS IN  $\mu$ F  
ALL INDUCTORS IN  $\mu$ H(K)

- B (POWER SUPPLY) LINE
- PB Y SIGNAL LINE
- REC Y SIGNAL LINE
- PB CHROMA SIGNAL LINE
- REC CHROMA SIGNAL LINE
- PB AUDIO SIGNAL LINE
- REC AUDIO SIGNAL LINE





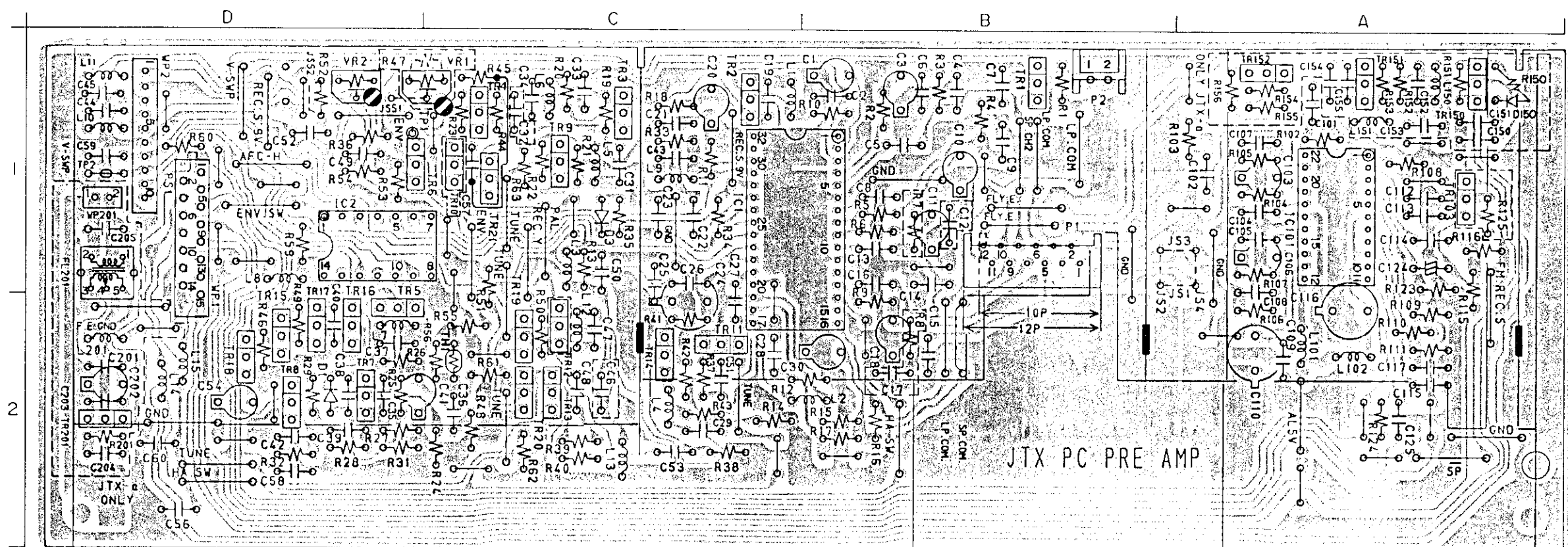
NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/4W  
ALL CAPACITORS IN  $\mu$ F  
ALL INDUCTORS IN mH(K)

- B (POWER SUPPLY) LINE
- PB Y SIGNAL LINE
- REC Y SIGNAL LINE
- PB CHROMA SIGNAL LINE
- REC CHROMA SIGNAL LINE
- PB AUDIO SIGNAL LINE
- REC AUDIO SIGNAL LINE

VS-F1000EK-VN/EOG-VD  
VS-F1010EOH-D/EOH-N  
VS-F1030EOH-DN  
PRE AMP  
SCHEMATIC DIAGRAM  
No. 16-7 V115407M  
A0

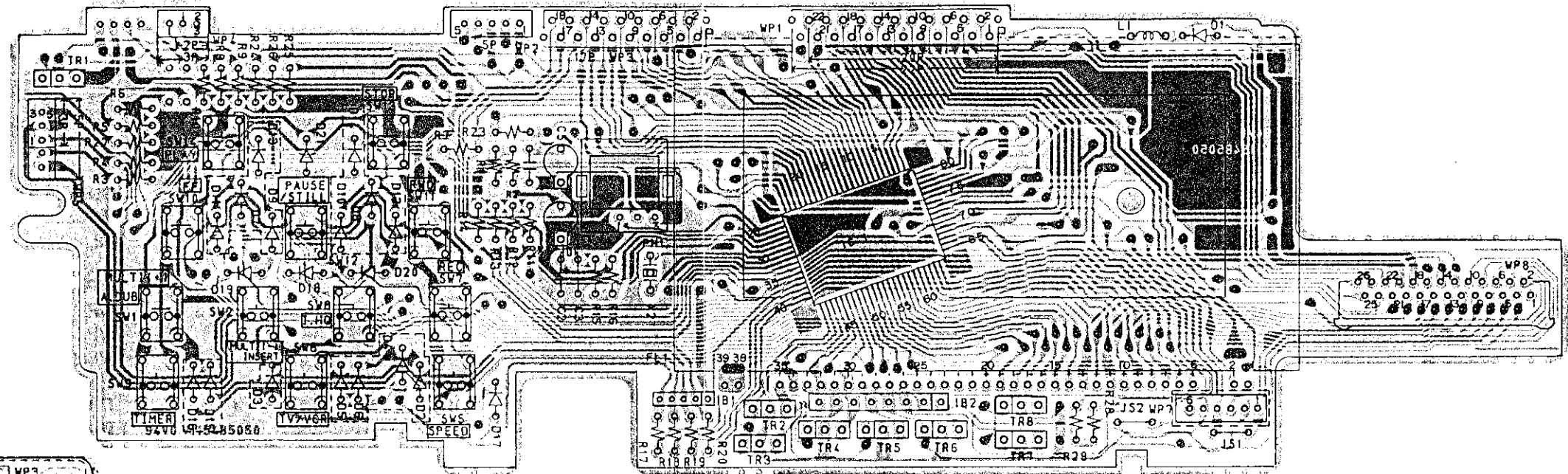
PRINCIPAL PARTS LOCATION

ICs	
IC1 .....	B,C1
IC2 .....	D1
IC101 .....	A1
CONNECTORs	
P1 .....	B1
P2 .....	B1
WPs	
WP1 .....	D1
WP2 .....	D1
WP201 .....	D1
TPs	
TP1 .....	D1
TP2 .....	D1
TRANSISTORs	
TR1 .....	B1
TR2 .....	C1
TR3 .....	C1
TR4 .....	C1
TR5 .....	D2
TR6 .....	D1
TR7 .....	D2
TR8 .....	D2
TR9 .....	C1
TR10 .....	C1
TR11 .....	C2
TR12 .....	C2
TR13 .....	C2
TR14 .....	C2
TR15 .....	D2
TR16 .....	D2
TR17 .....	D2
TR18 .....	D2
TR19 .....	C2
TR20 .....	C2
TR21 .....	C1
TR103 .....	A1
TR150 .....	A1
TR151 .....	A1
TR152 .....	A1
TR201 .....	D2

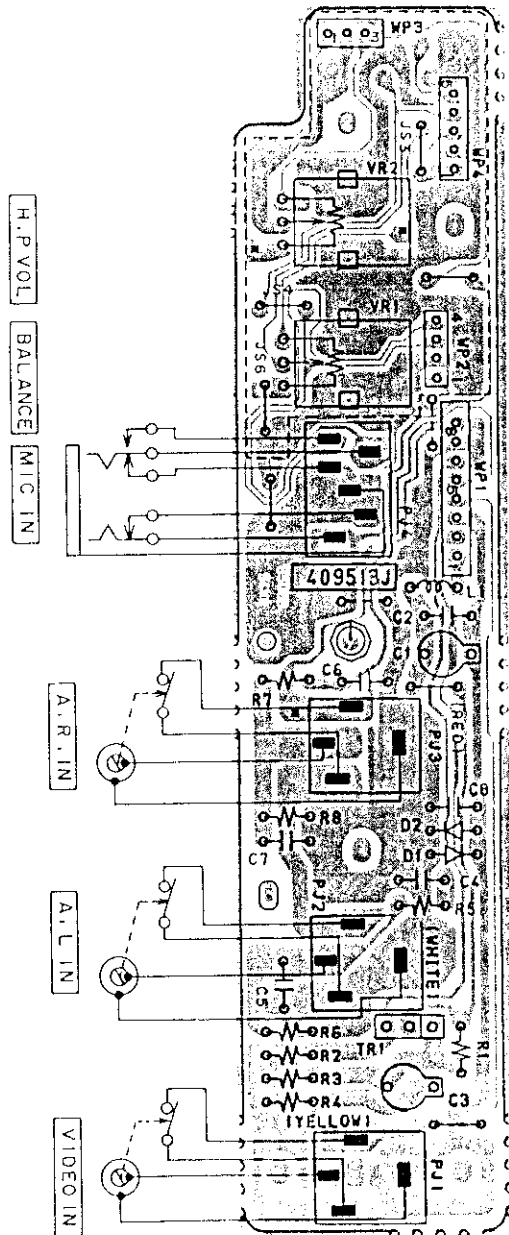


PRE AMP PCB VII54B5020

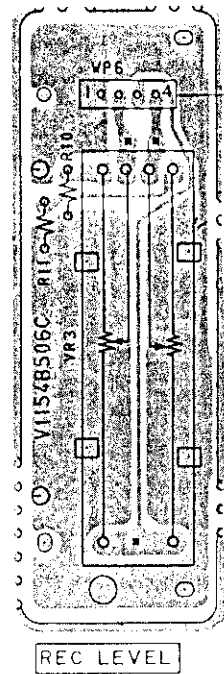
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



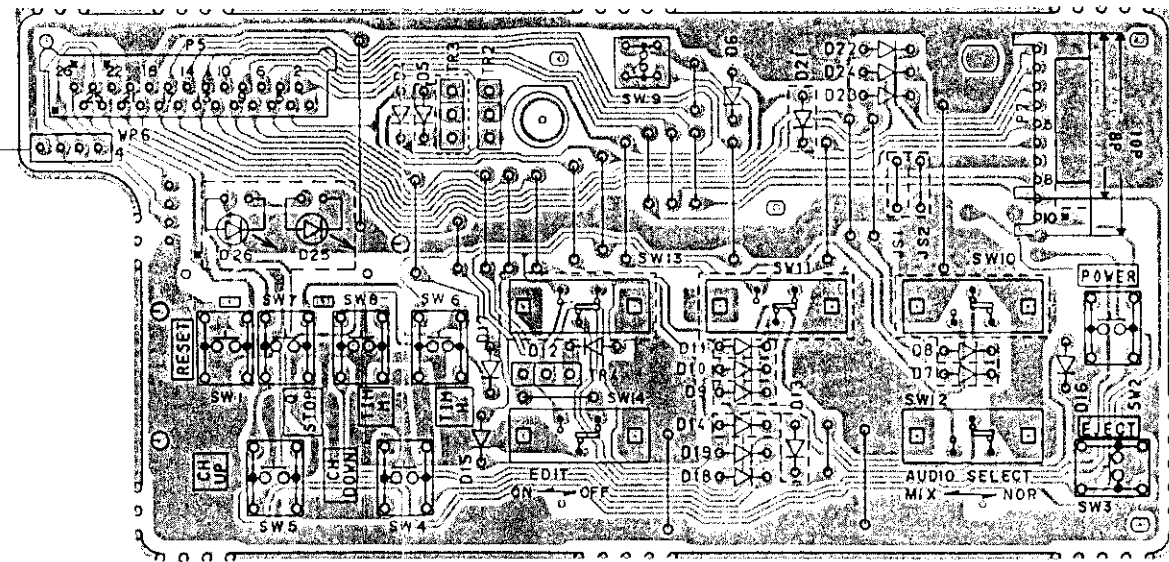
OPERATION (1) PCB VII54B5050



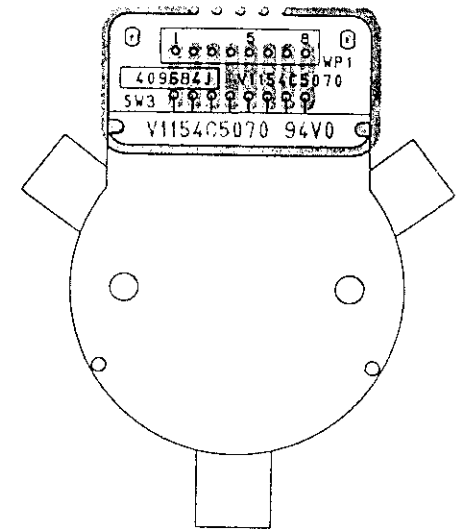
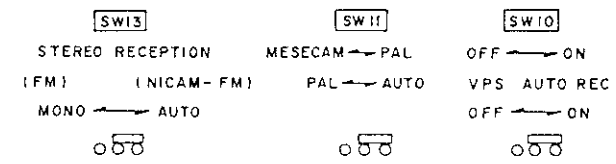
FRONT PCB VII54B506B



VR PCB VII54B506C

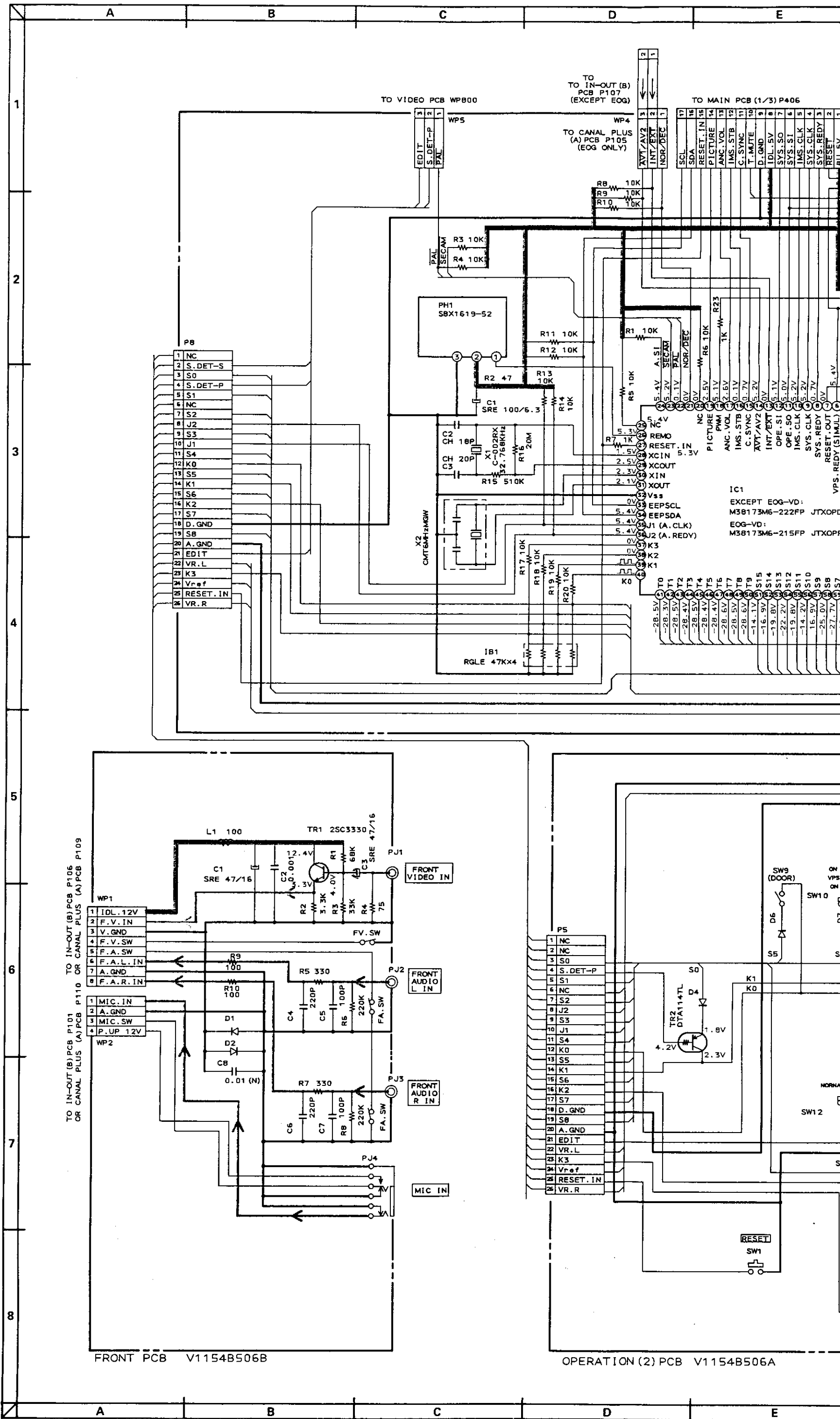


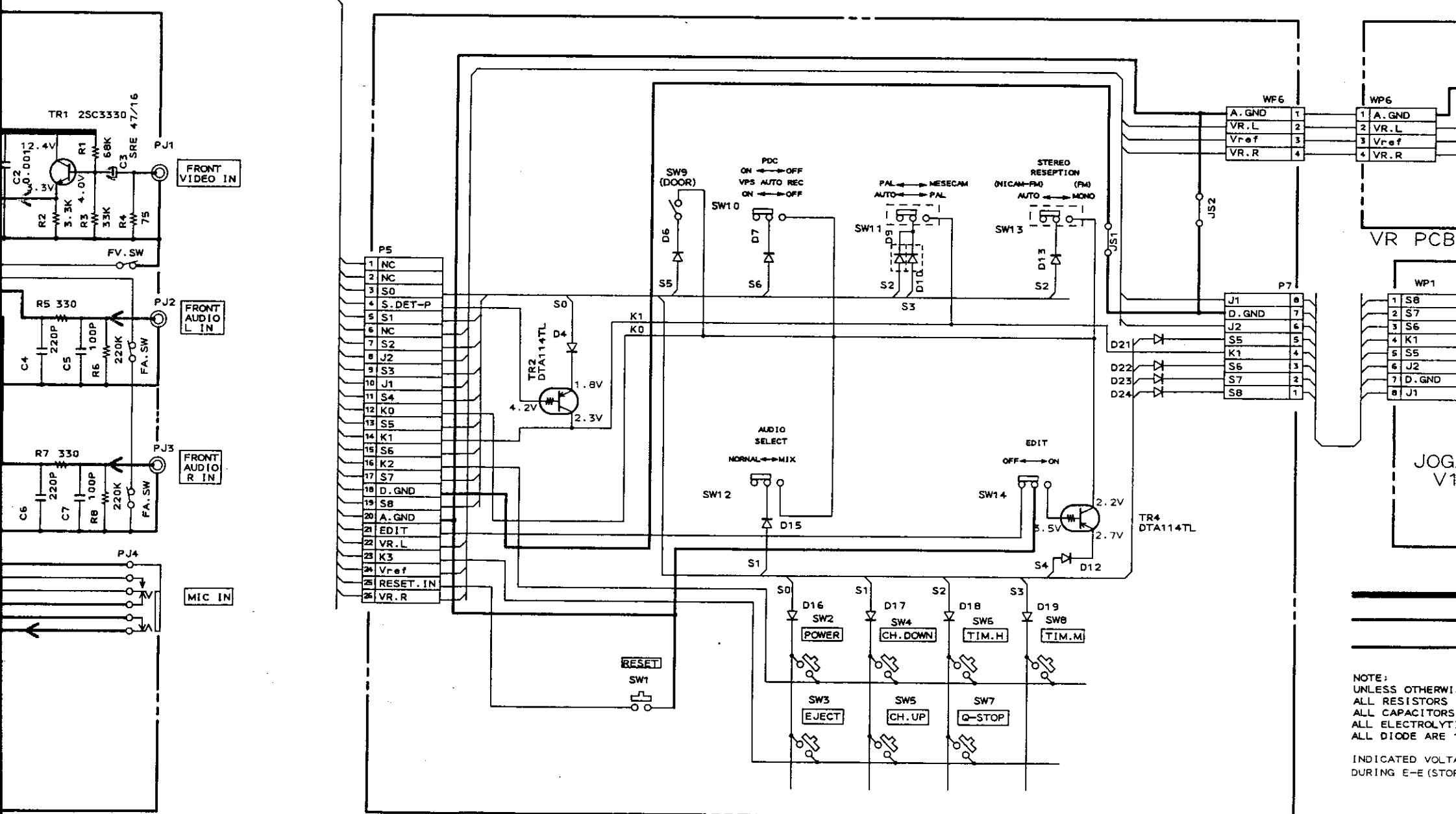
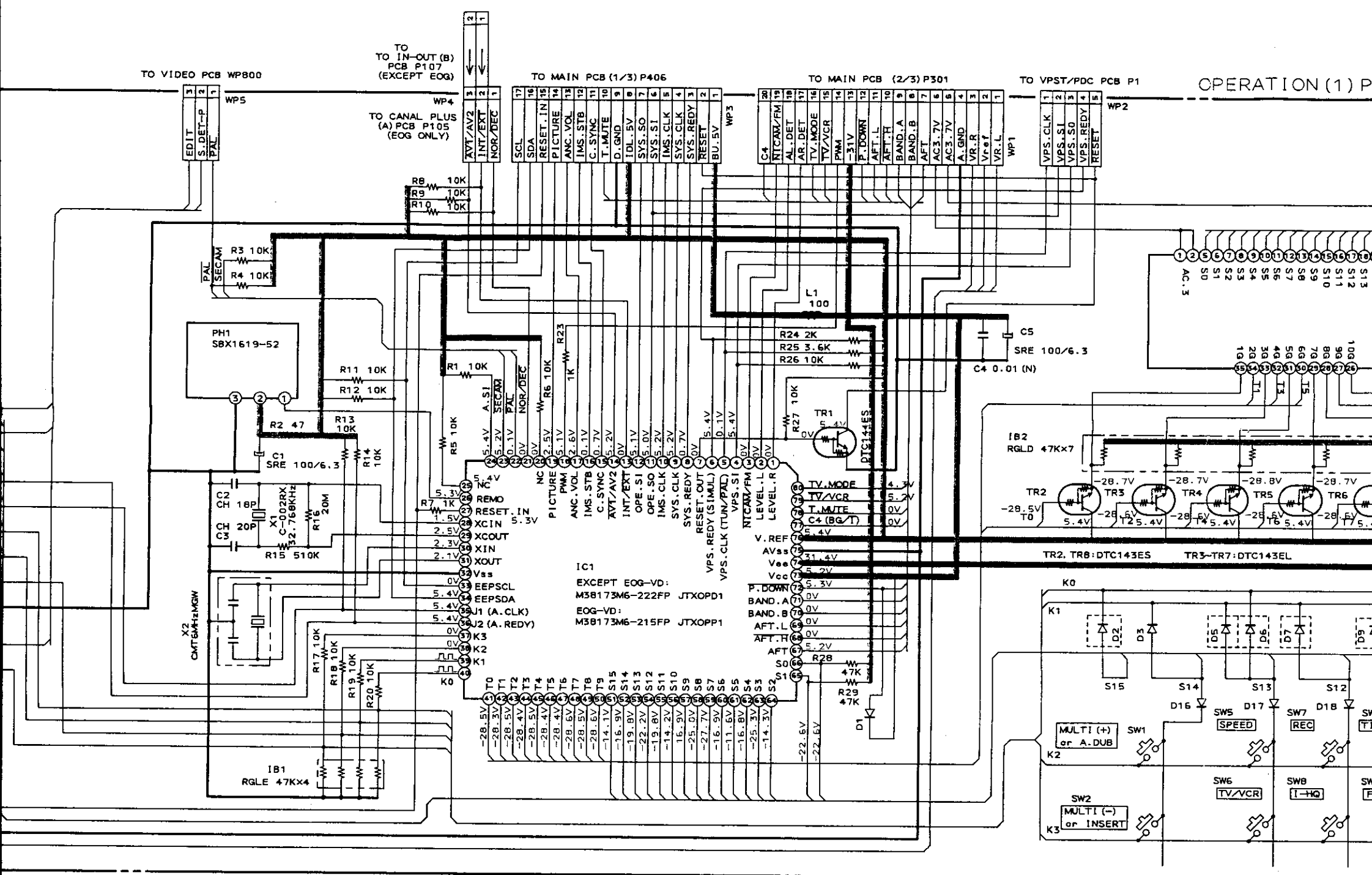
OPERATION (2) PCB VII54B506A



JOG / SHUTTLE PCB VII54C5070

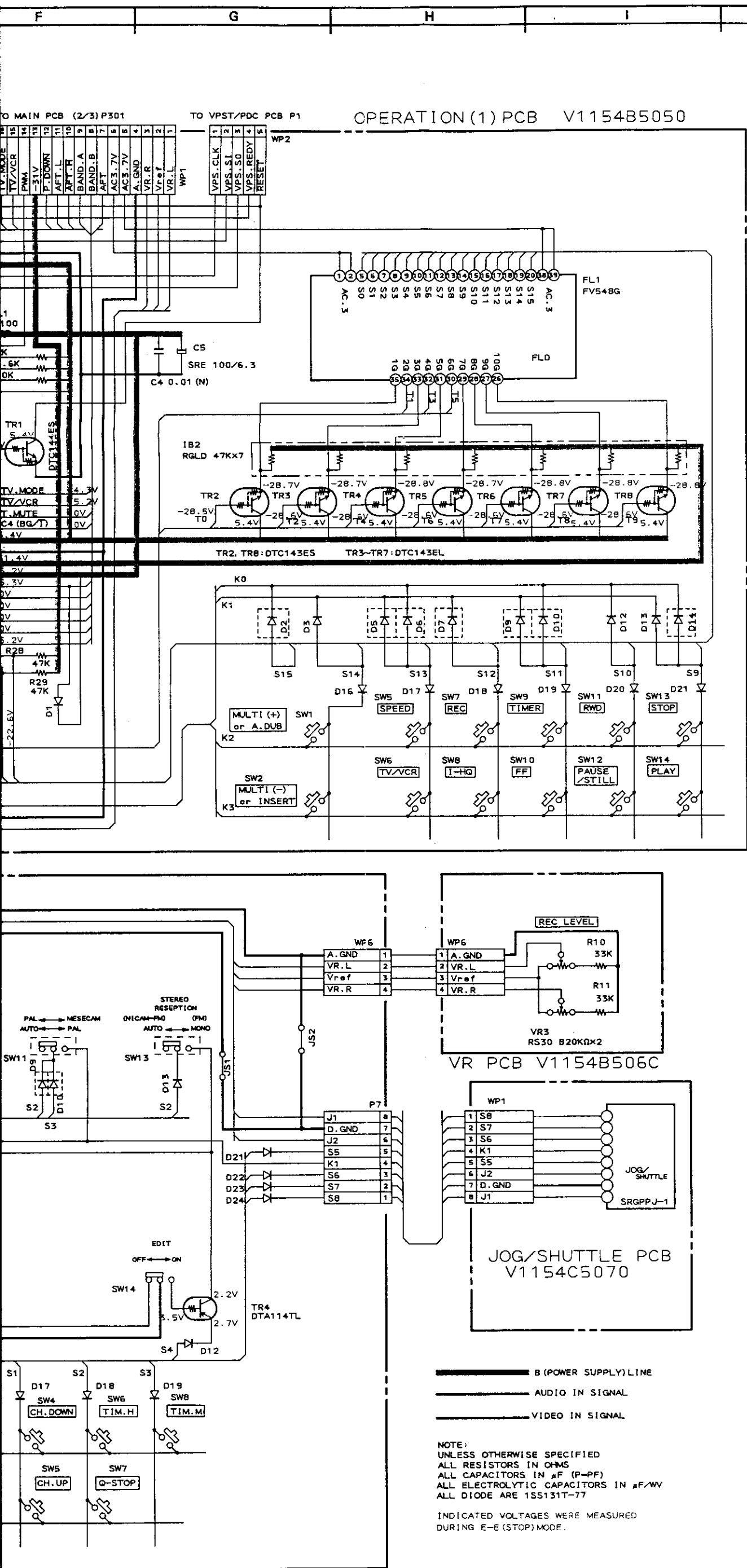
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.





NOTE:  
UNLESS OTHERWISE SPECIFIED,  
ALL RESISTORS ARE IN OHMS,  
ALL CAPACITORS ARE IN P.F.,  
ALL ELECTROLYTIC CAPACITORS  
ALL DIODES ARE 1N4148

INDICATED VOLTAGE IS  
DURING E-E (STOP)



OPERATION (1) PCB

	EK-VN	EOH-D	EOH-DN	EOH-N	EOG-VD
D2 PDCJ	○				
D5 EOGJ				○	
D6 DEC				○	
D7 AUTOJ				○	
D9 NICAMJ	○		○	○	
D10 EKJ	○				
D14 BAND4J		○	○	○	

OPERATION (2) PCB

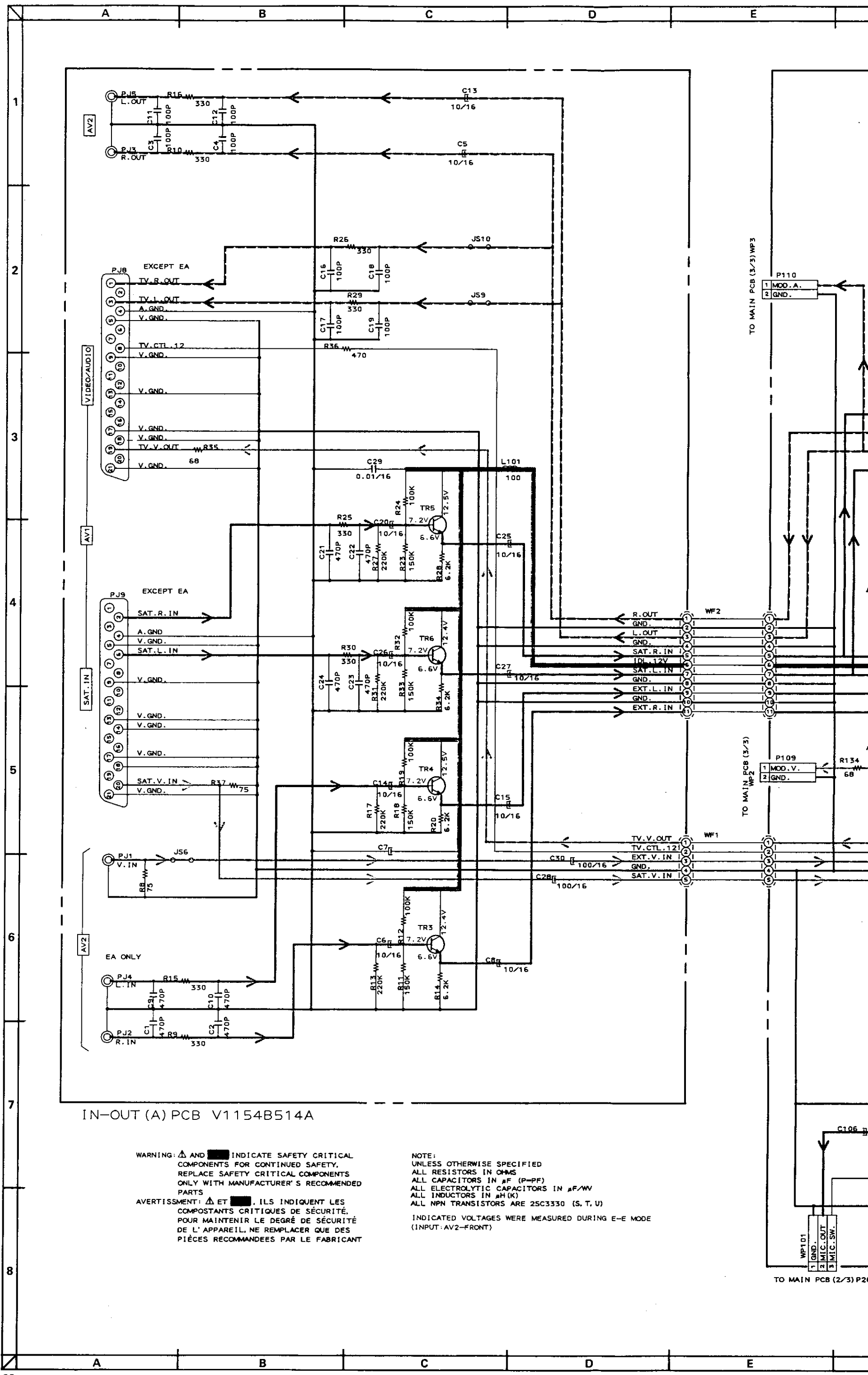
	EK-VN	EOH-D	EOH-DN	EOH-N	EOG-VD
D9 AUTO/PAL					○
D10 PAL/MESECAM		○	○	○	
D13 NICAM	○		○	○	
SW 11	○	○	○	○	
SW 13	○		○	○	

— B (POWER SUPPLY) LINE  
 — AUDIO IN SIGNAL  
 — VIDEO IN SIGNAL

NOTE:  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS  
 ALL CAPACITORS IN μF (P-PF)  
 ALL ELECTROLYTIC CAPACITORS IN μF/WV  
 ALL DIODES ARE 1SS131T-77  
 INDICATED VOLTAGES WERE MEASURED  
 DURING E-E (STOP) MODE.

VS-F1000EK-VN/EOG-VD  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 OPERATION (1), (2) & FRONT  
 SCHEMATIC DIAGRAM  
 No. 16-8 V115408M  
 A1

1  
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8



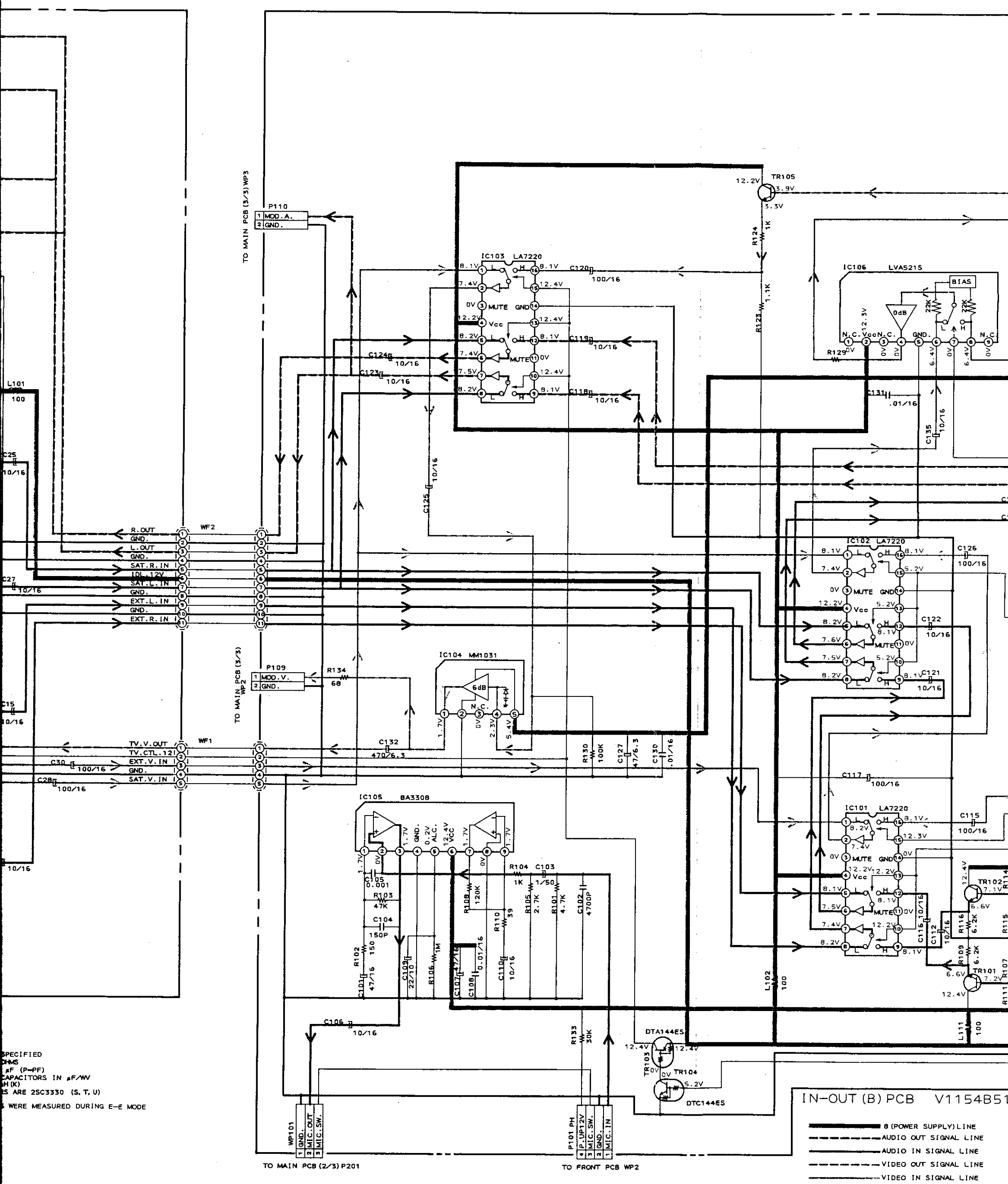
IN-OUT (A) PCB V1154B514A

WARNING:  $\Delta$  AND  $\blacksquare$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  ET  $\blacksquare$  ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE:  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS  
ALL CAPACITORS IN  $\mu$ F (P-PF)  
ALL ELECTROLYTIC CAPACITORS IN  $\mu$ F/WV  
ALL INDUCTORS IN  $\mu$ H (K)  
ALL NPN TRANSISTORS ARE 2SC3330 (S. T. U)

INDICATED VOLTAGES WERE MEASURED DURING E-E MODE (INPUT: AV2-FRONT)

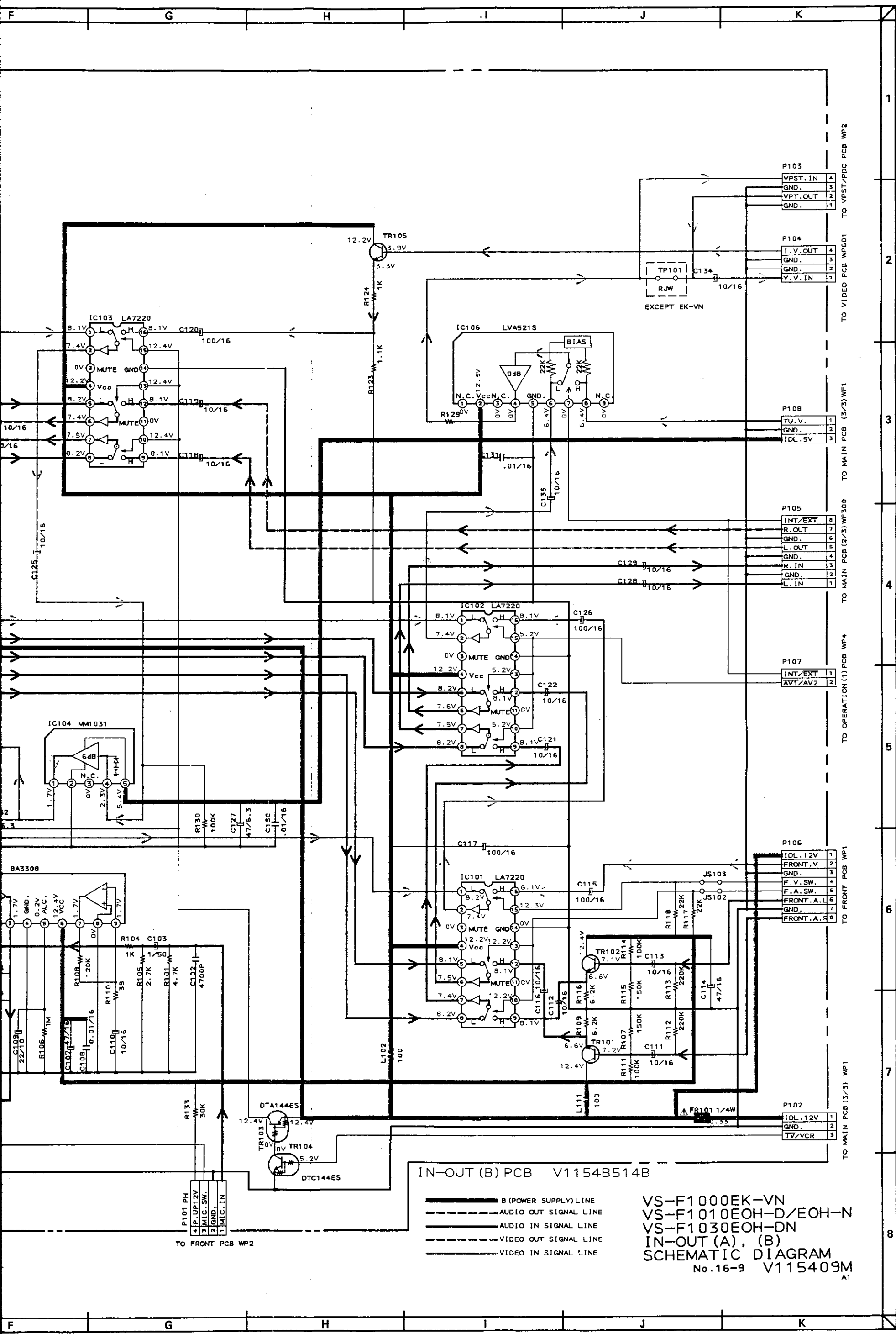


SPECIFIED  
 RMS  
 AF (P-PF)  
 CAPACITORS IN AF/WV  
 (K)  
 ARE 25C3330 (S, T, U)  
 WERE MEASURED DURING E-E MODE

IN-OUT (B) PCB V1154B51

——— 8 (POWER SUPPLY) LINE  
 - - - - - AUDIO OUT SIGNAL LINE  
 - - - - - AUDIO IN SIGNAL LINE  
 . . . . . VIDEO OUT SIGNAL LINE  
 - . - . - VIDEO IN SIGNAL LINE

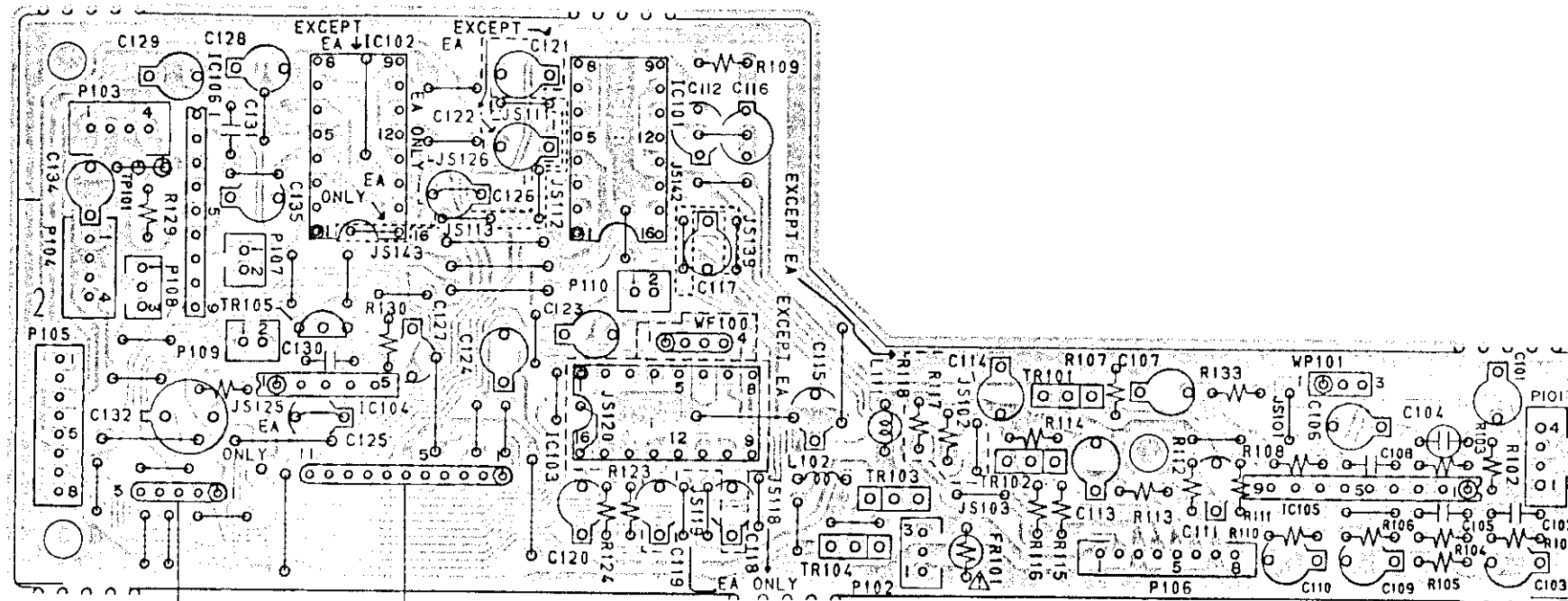




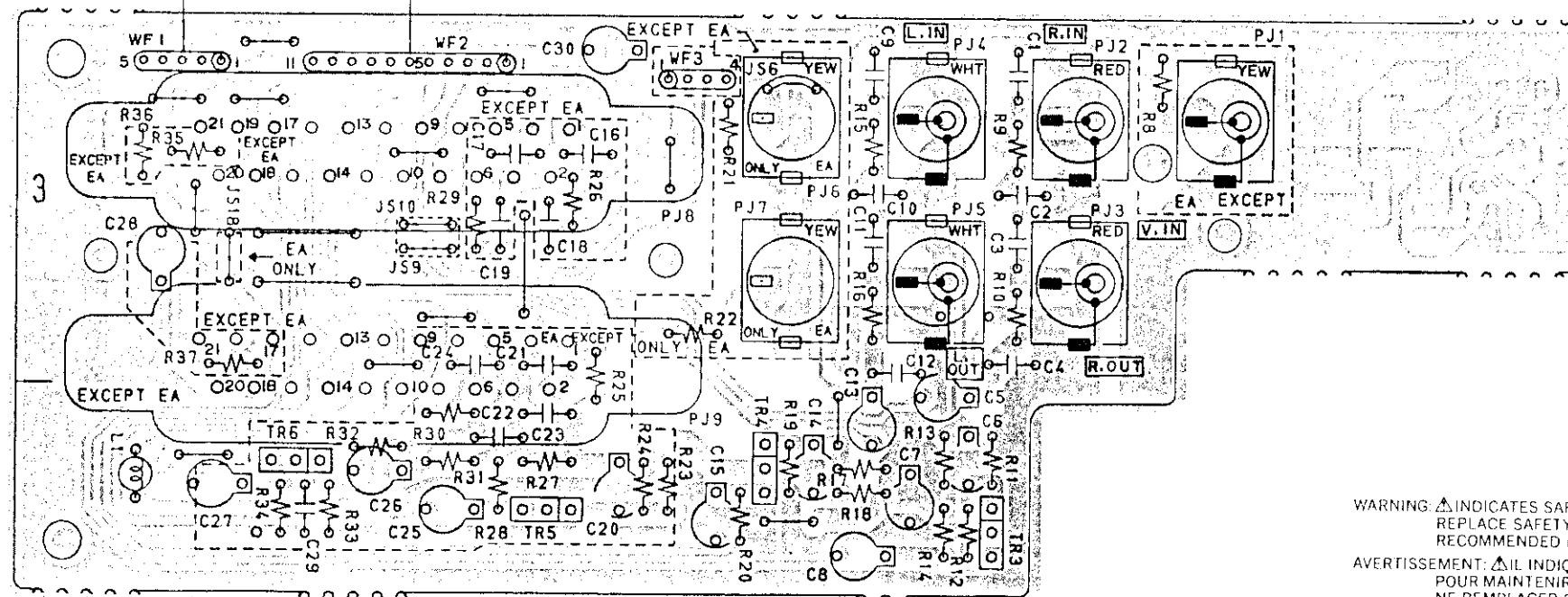
IN-OUT (B) PCB V1154B514B

- B (POWER SUPPLY) LINE
- - - AUDIO OUT SIGNAL LINE
- · — AUDIO IN SIGNAL LINE
- · - - VIDEO OUT SIGNAL LINE
- · - - VIDEO IN SIGNAL LINE

VS-F1000EK-VN  
 VS-F1010EOH-D/EOH-N  
 VS-F1030EOH-DN  
 IN-OUT (A), (B)  
 SCHEMATIC DIAGRAM  
 No.16-9 V115409M  
 A1



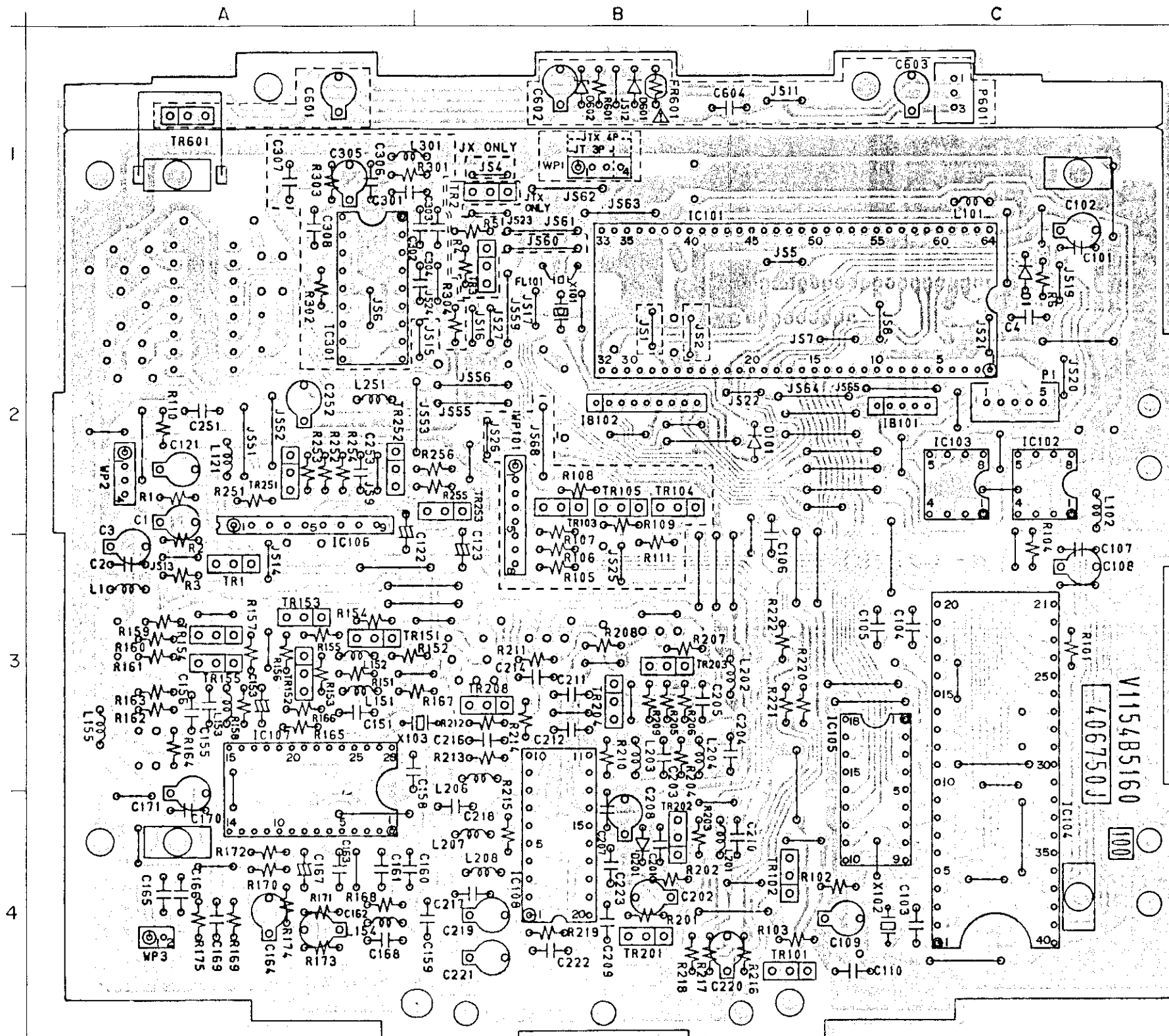
IN - OUT (B) PCB VII54B514B



IN - OUT (A) PCB VII54B514A

WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.  
 REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S  
 RECOMMENDED PARTS  
 AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.  
 POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,  
 NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
 REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
 PARTS INFORMATION.



VPST / PDC PCB VII54B5160

**PRINCIPAL PARTS LOCATION**

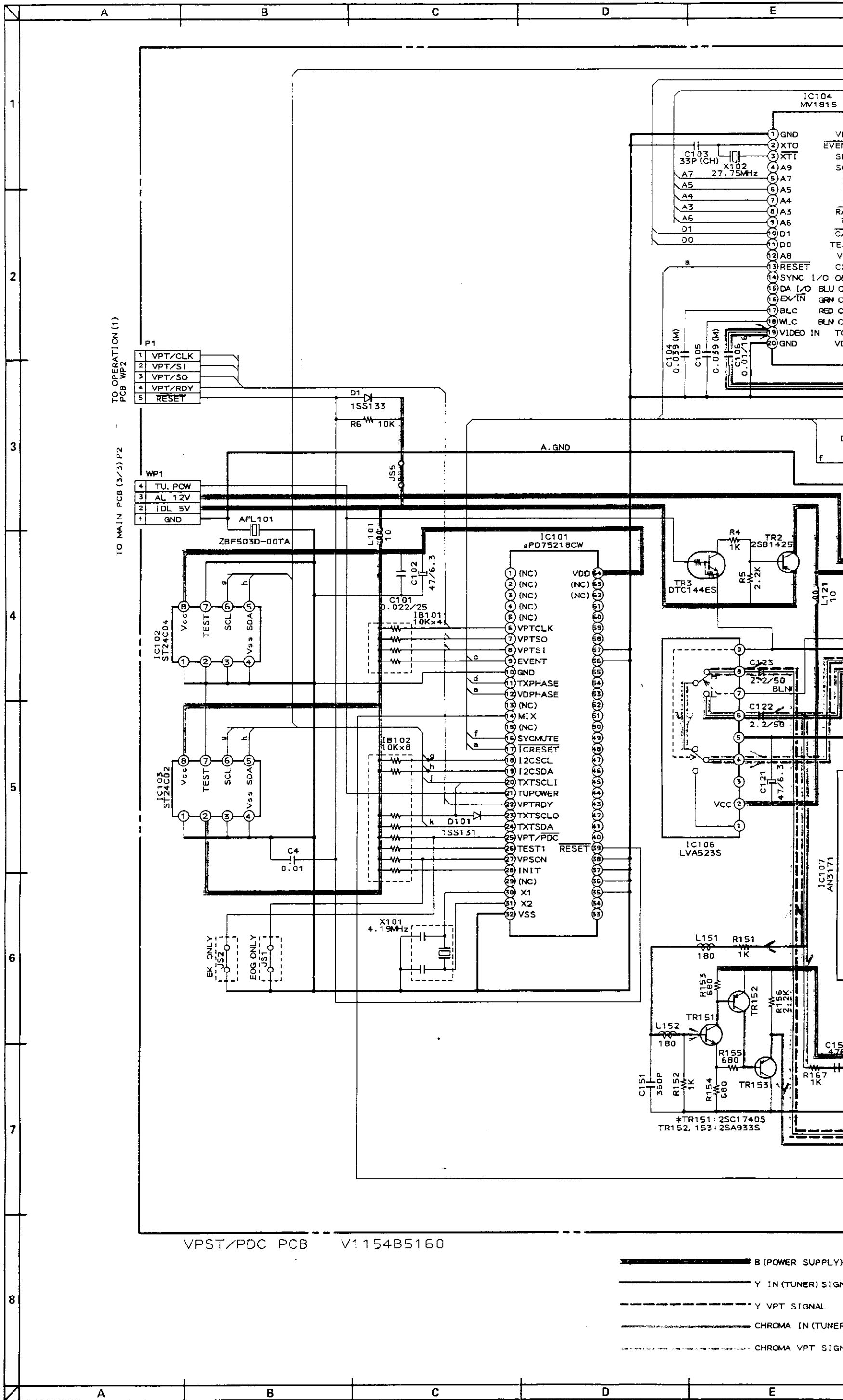
- ICs**  
 IC101 ..... B,C1,2  
 IC102 ..... C2  
 IC103 ..... C2  
 IC104 ..... C3,4  
 IC105 ..... C3,4  
 IC106 ..... A2  
 IC107 ..... A3,4  
 IC108 ..... B3,4  
 IC301 ..... A1,2

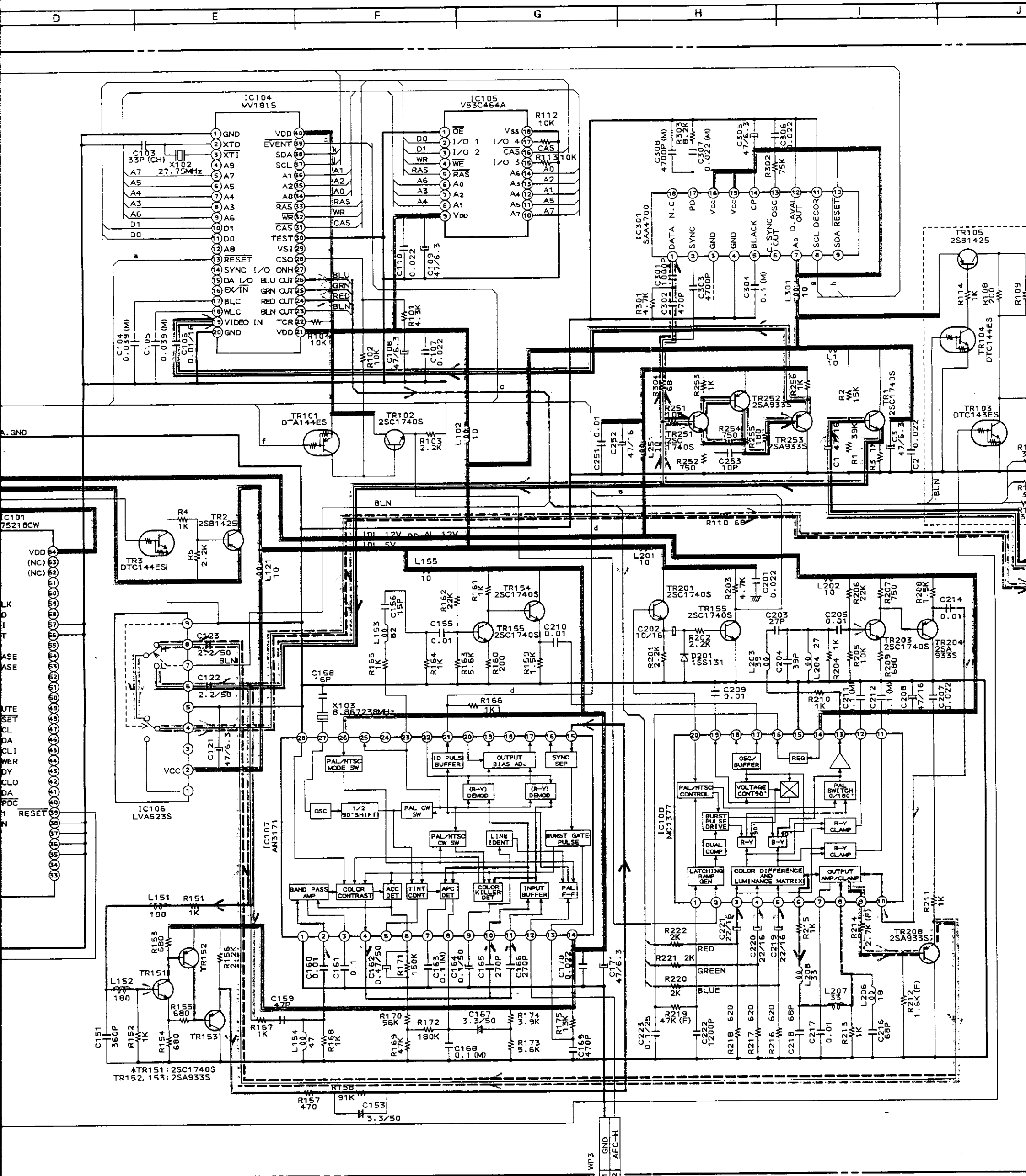
- CONNECTORS & WIRES**  
 WP1 ..... B1  
 WP2 ..... A2  
 WP3 ..... A4  
 WP101 ..... B2,3  
 P1 ..... C2  
 P601 ..... C1

- TRANSISTORS**  
 TR1 ..... A1  
 TR101 ..... B4  
 TR102 ..... B4  
 TR103 ..... B2  
 TR104 ..... B2  
 TR105 ..... B2  
 TR151 ..... A3  
 TR152 ..... A3  
 TR153 ..... A3  
 TR154 ..... A3  
 TR155 ..... A3  
 TR201 ..... B4  
 TR202 ..... B4  
 TR203 ..... B3  
 TR204 ..... B3  
 TR208 ..... B3  
 TR251 ..... A2  
 TR252 ..... A2  
 TR253 ..... B2  
 TR601 ..... A1

WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
 AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

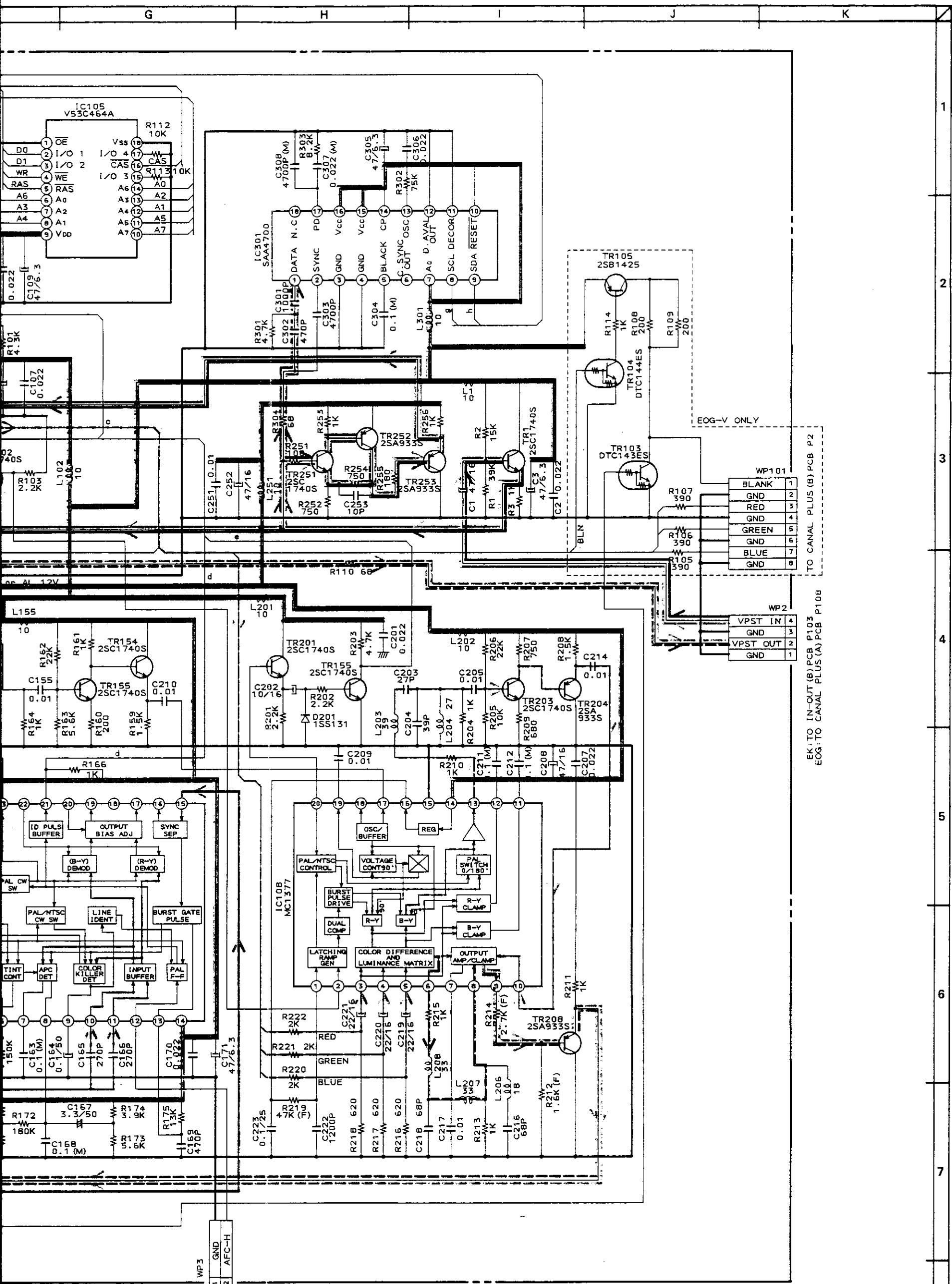




- B (POWER SUPPLY) LINE
- Y IN (TUNER) SIGNAL
- - -** Y VPT SIGNAL
- CHROMA IN (TUNER) SIGNAL
- - -** CHROMA VPT SIGNAL

NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS  
ALL CAPACITORS IN  $\mu$ F

VS-F1  
VS-F1  
VPST/  
SCHEM  
No. 1



TO VIDEO PCB P603

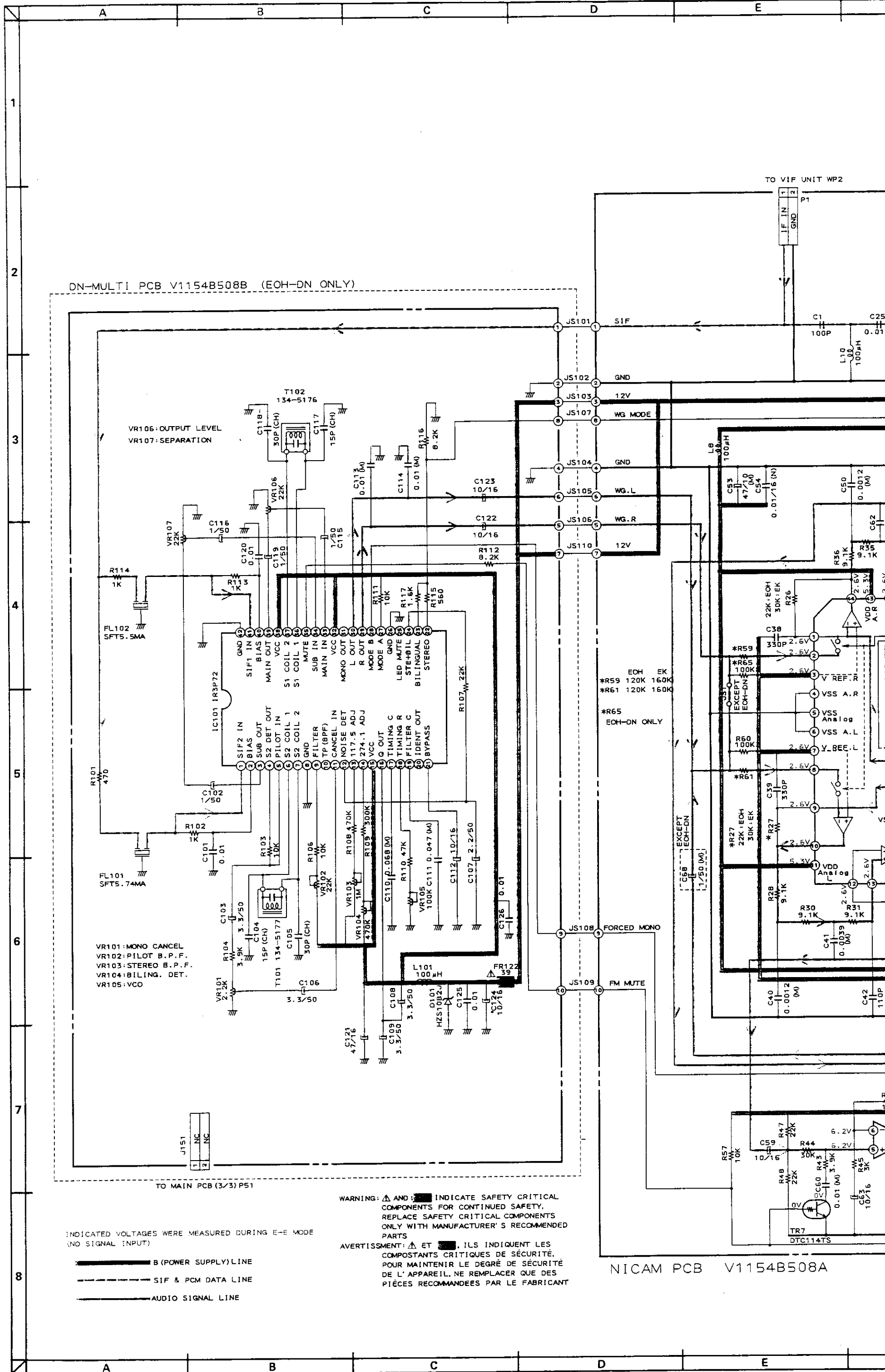
NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS  
ALL CAPACITORS IN  $\mu$ F

VS-F1000EK-VN  
VS-F1000EOG-VD  
VPST/PDC  
SCHEMATIC DIAGRAM  
No.16-10 V115410M  
A1

EK: TO IN-OUT (B) PCB P103  
EOG: TO CANAL PLUS (A) PCB P10B

TO CANAL PLUS (B) PCB P2

1  
2  
3  
4  
5  
6  
7  
8



DN-MULTI PCB V1154B508B (EOH-DN ONLY)

VR101: MONO CANCEL  
 VR102: PILOT B.P.F.  
 VR103: STEREO B.P.F.  
 VR104: BILING. DET.  
 VR105: VCO

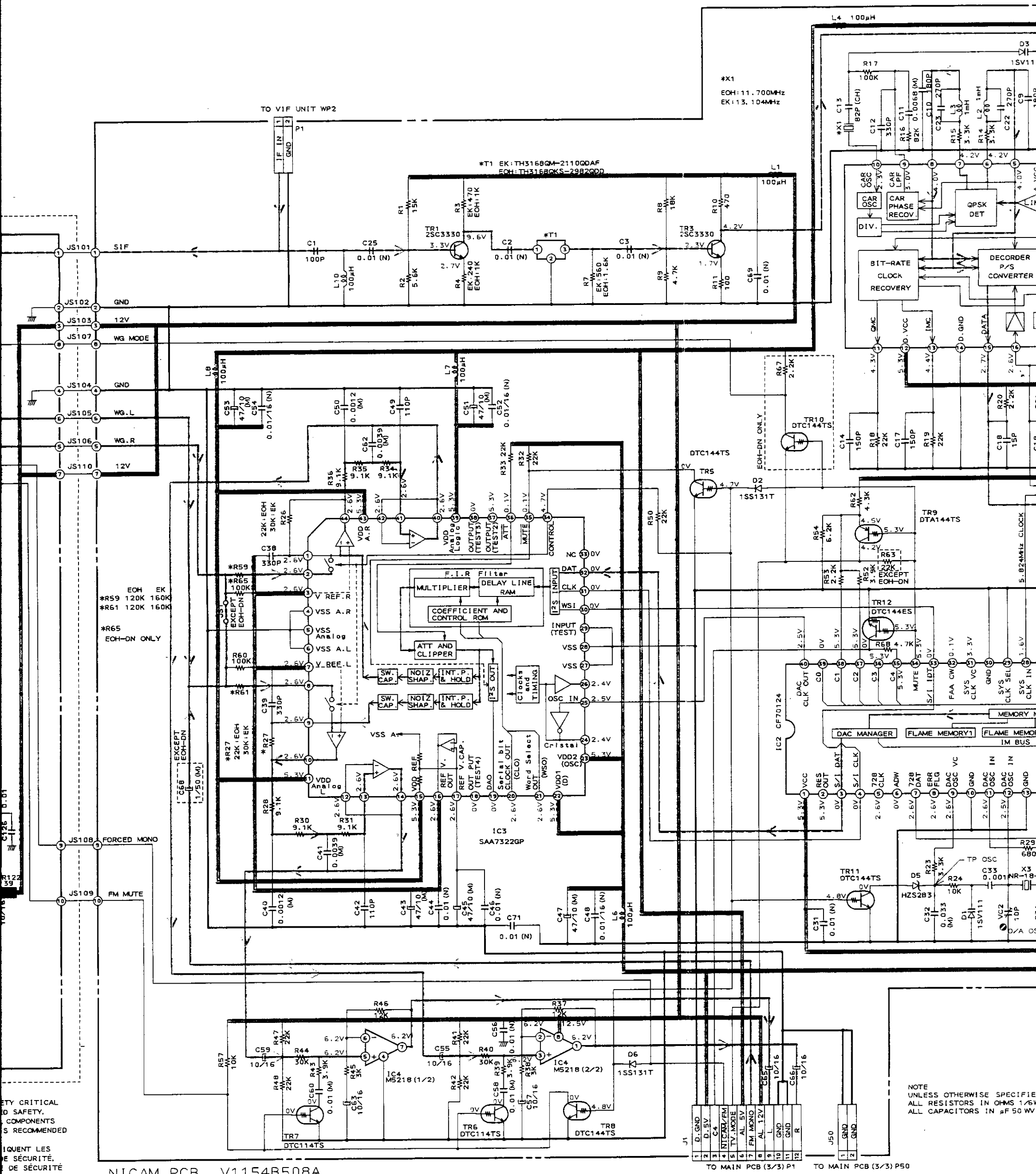
WARNING: AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ET ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

INDICATED VOLTAGES WERE MEASURED DURING E-E MODE (NO SIGNAL INPUT)

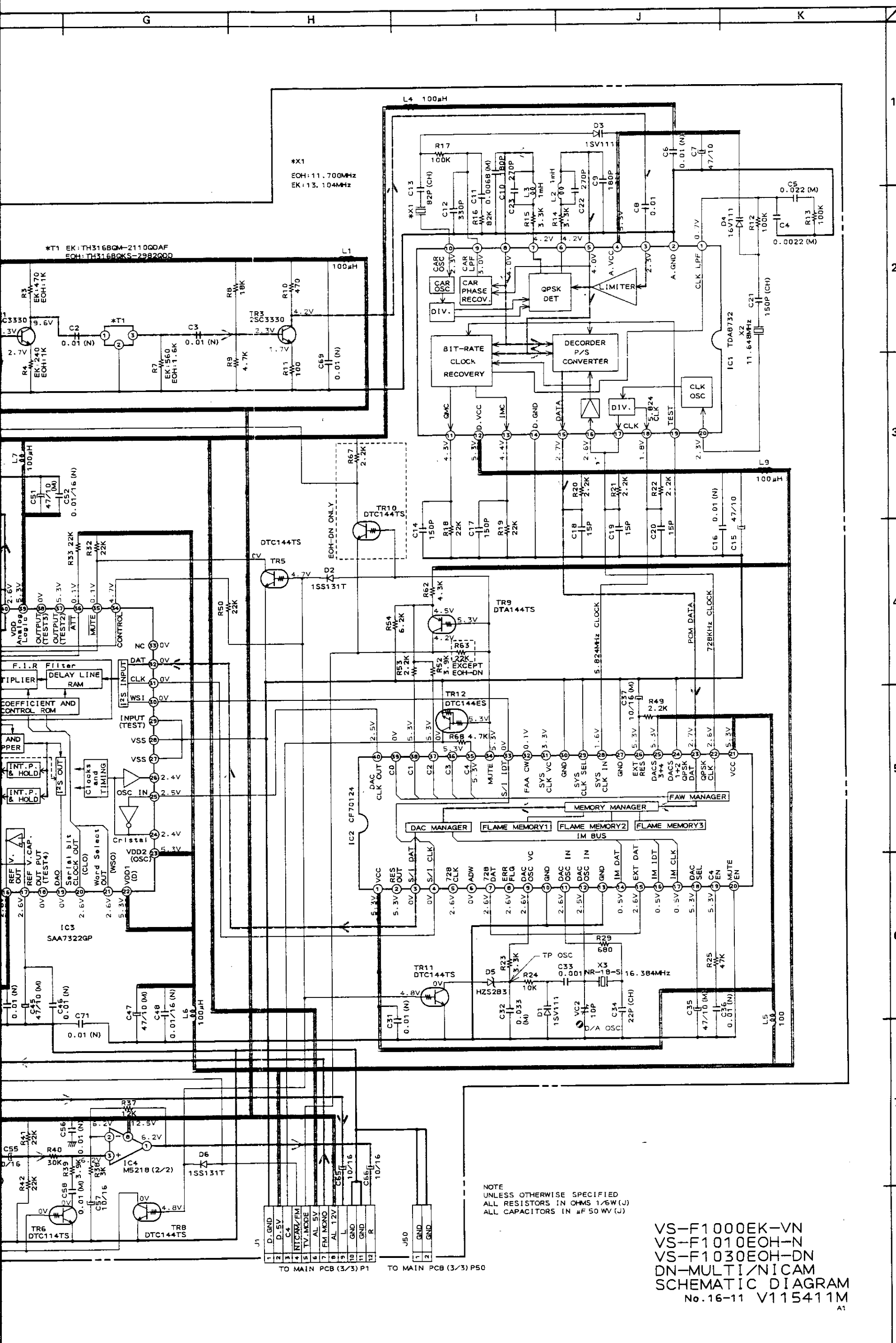
— B (POWER SUPPLY) LINE  
 - - - SIF & PCM DATA LINE  
 — AUDIO SIGNAL LINE

NICAM PCB V1154B508A



NICAM PCB V1154B508A

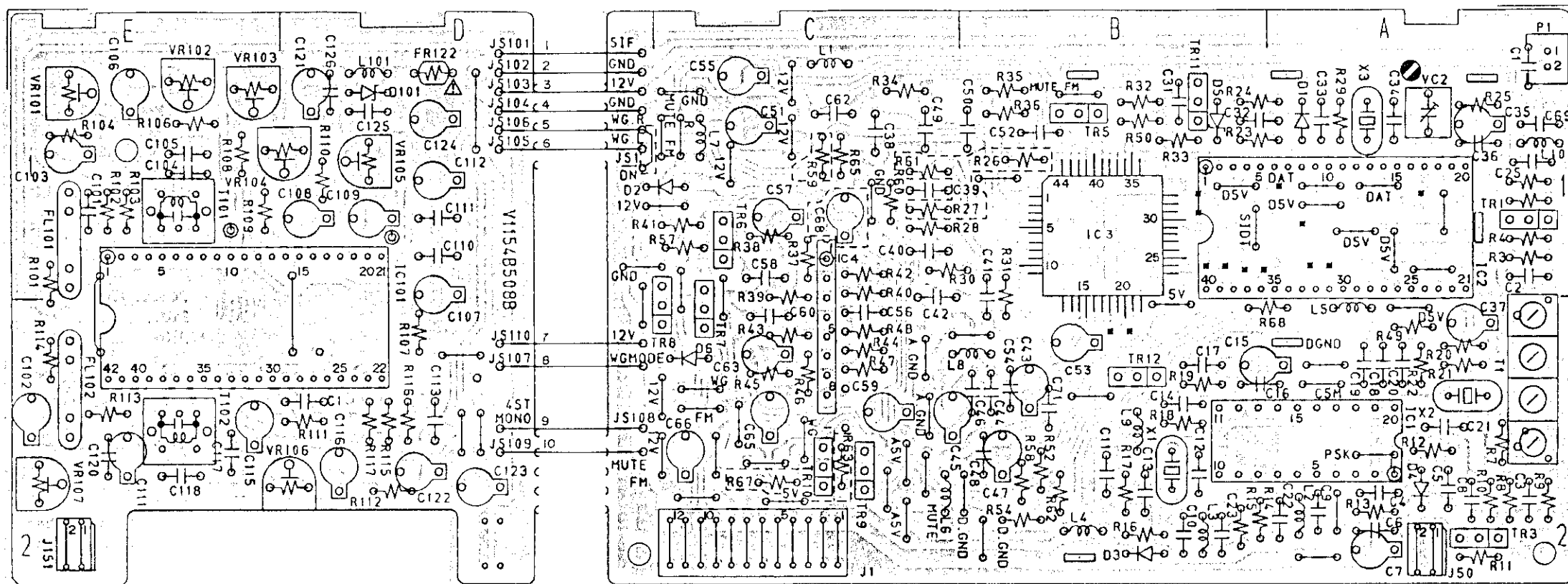




NOTE  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS 1/6W(J)  
 ALL CAPACITORS IN pF 50 WV(J)

VS-F1000EK-VN  
 VS-F1010EOH-N  
 VS-F1030EOH-DN  
 DN-MULTI/NICAM  
 SCHEMATIC DIAGRAM  
 No.16-11 V115411M  
 A1

J1 TO MAIN PCB (3/3) P1  
 J50 TO MAIN PCB (3/3) P50



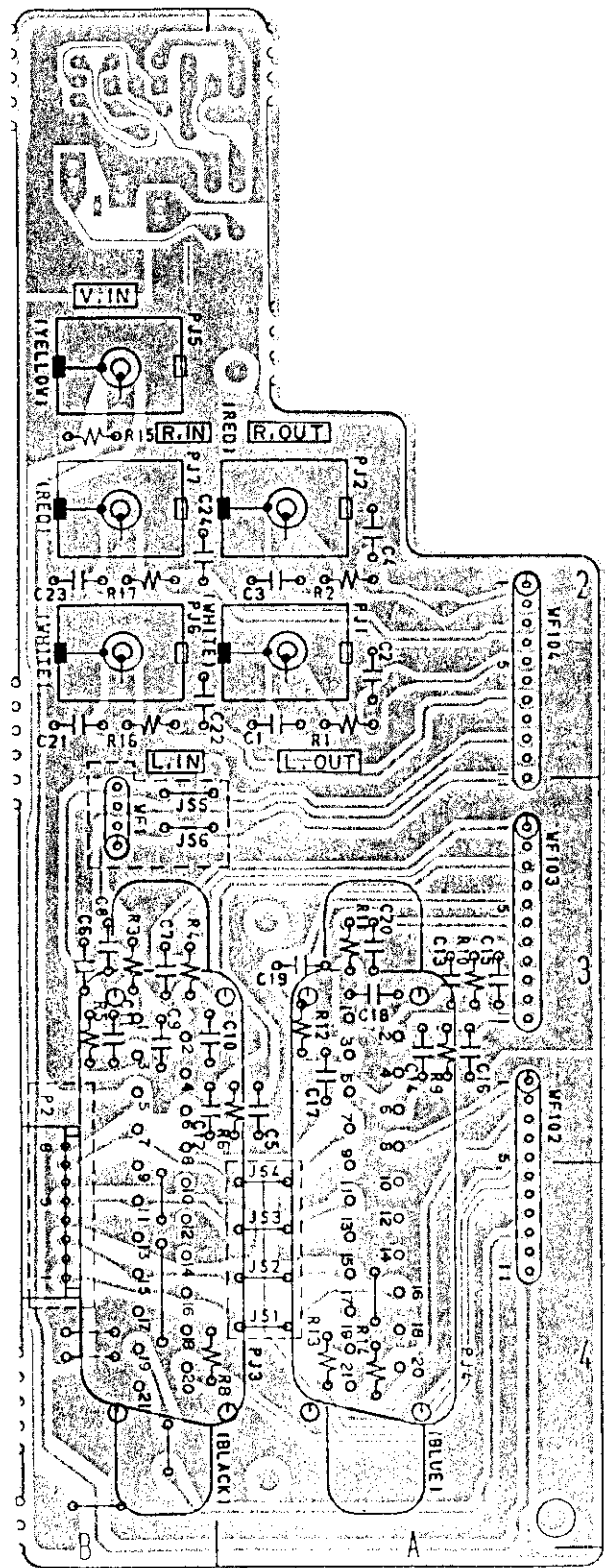
DN - MULTI PCB VII54B508B  
(EOH - DN ONLY)

NICAM PCB VII54B508A

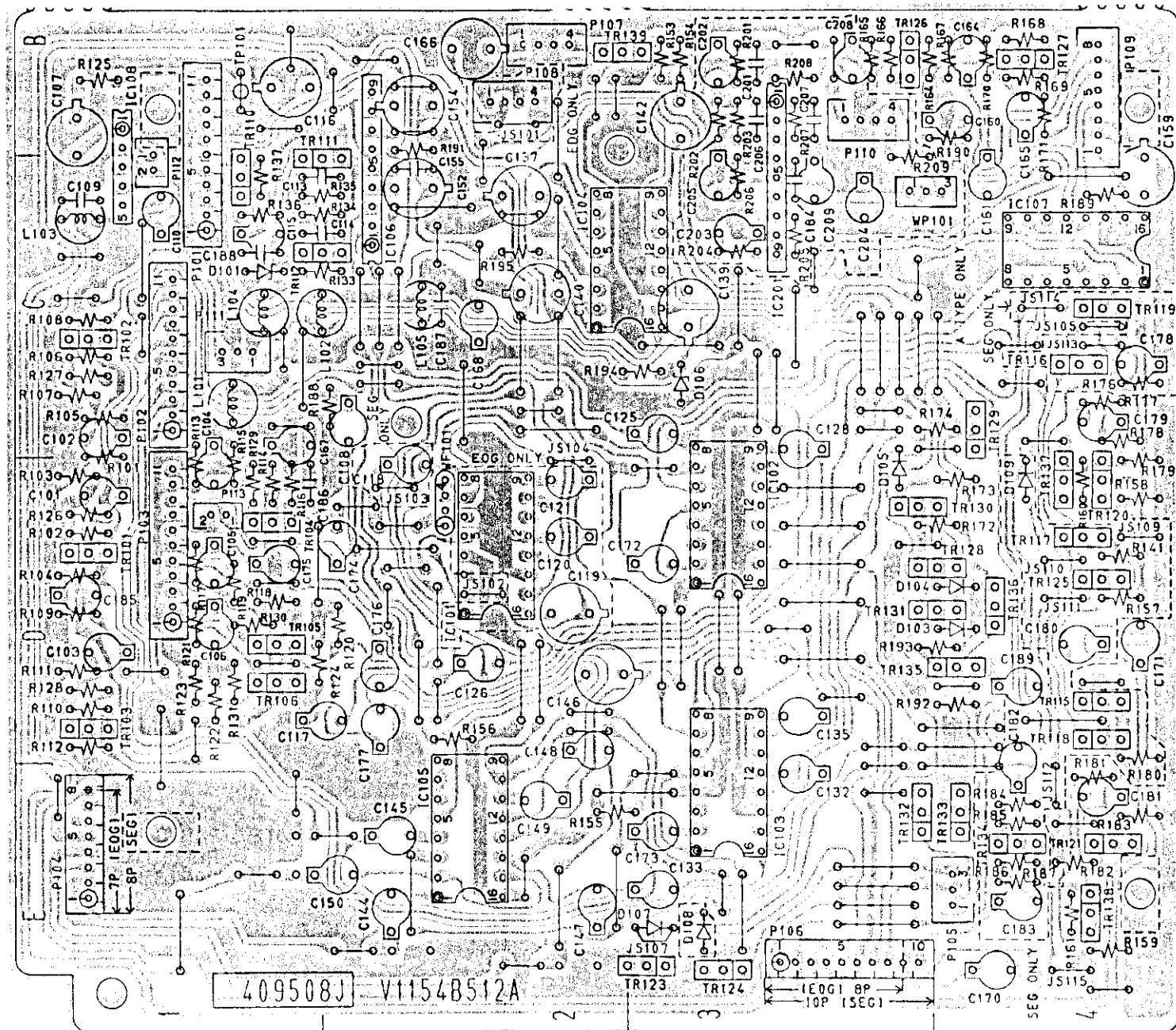
WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.  
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S  
RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.  
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,  
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



CANAL PLUS(B) PCB VII54B512B



CANAL PLUS(A) PCB VII54B512A

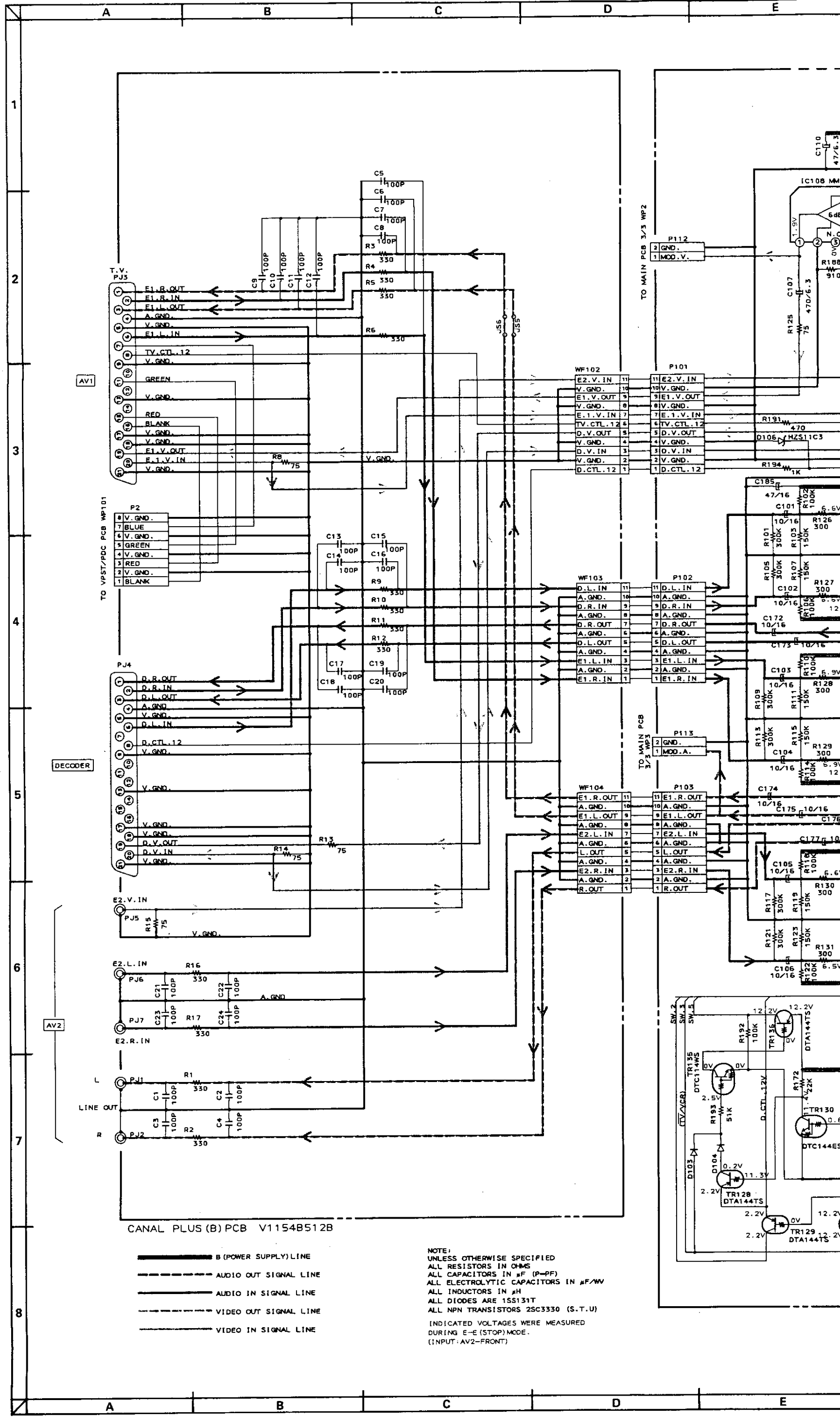
PRINCIPAL PARTS LOCATION

ICs	TRANSISTORS
IC101 ..... D2	TR101 ..... D1
IC102 ..... D3	TR102 ..... C1
IC103 ..... D,E3	TR103 ..... D1
IC104 ..... C2,3	TR104 ..... D1
IC105 ..... E2	TR105 ..... D1
IC106 ..... B,C2	TR106 ..... D1
IC107 ..... C4	TR110 ..... C1
IC108 ..... B,C1	TR111 ..... C1,2
IC201 ..... B,C3	TR112 ..... C1,2

CONNECTORS & WIRES

P101 ..... C1	TR115 ..... D4
P102 ..... C1	TR116 ..... C4
P103 ..... D1	TR117 ..... D4
P104 ..... E1	TR118 ..... D4
P104A ..... E1	TR119 ..... C4
P105 ..... E4	TR120 ..... D4
P106 ..... E3	TR121 ..... E4
P106A ..... E3	TR122 ..... E3
P107 ..... B2	TR123 ..... E3
P108 ..... B2	TR124 ..... E3
P109 ..... B4	TR125 ..... D4
P110 ..... B3	TR126 ..... B3
P111 ..... C1	TR127 ..... B4
P112 ..... B,C1	TR128 ..... D3,4
P113 ..... D1	TR129 ..... C4
WF101 ..... D2	TR130 ..... D3
WP101 ..... C3,4	TR131 ..... D3,4
	TR132 ..... E3
	TR133 ..... E4
	TR134 ..... D4
	TR135 ..... D4
	TR136 ..... D4
	TR137 ..... D4
	TR138 ..... E4
	TR139 ..... B2,3

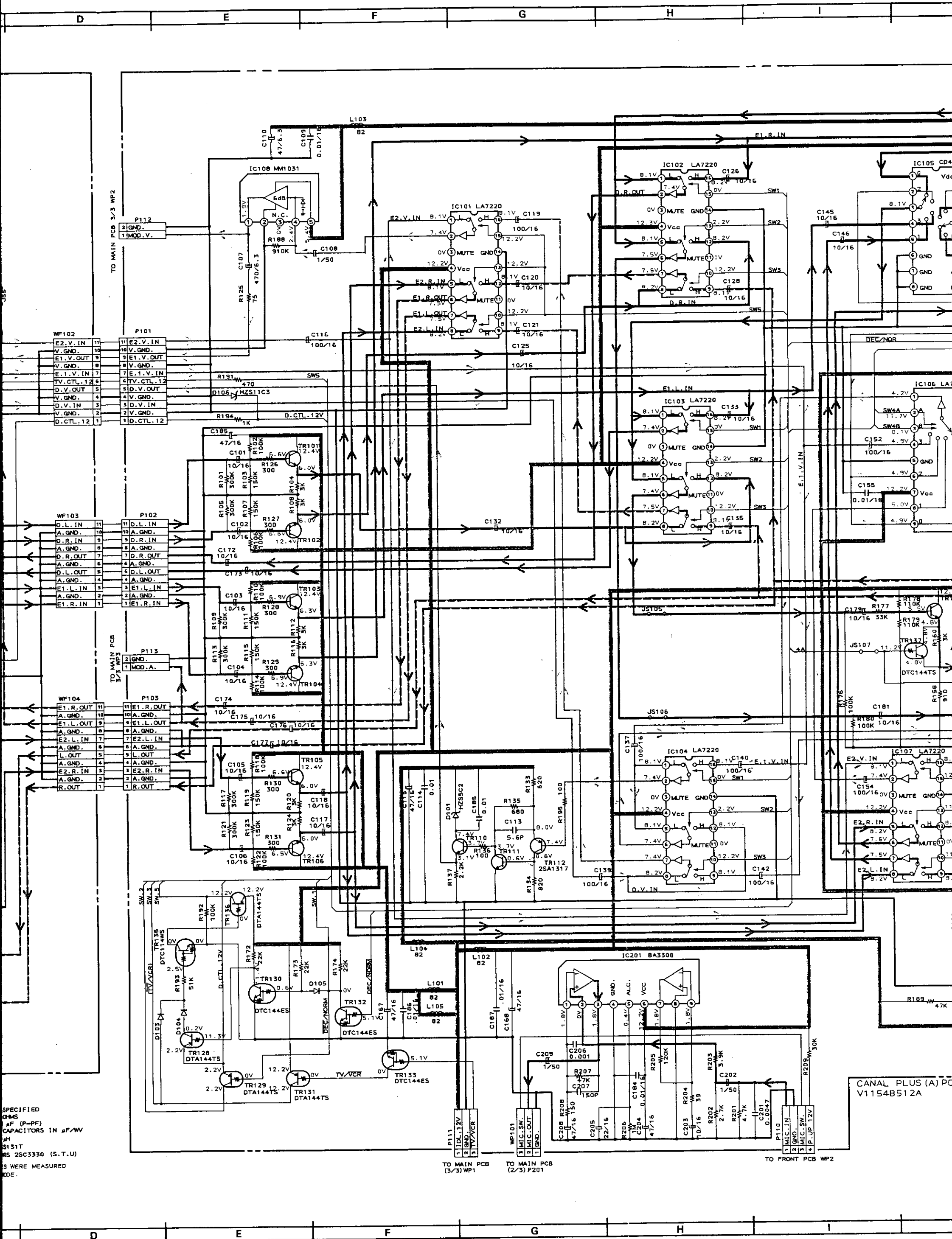
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



CANAL PLUS (B) PCB V1154B512B

- B (POWER SUPPLY) LINE
- - - - -** AUDIO OUT SIGNAL LINE
- AUDIO IN SIGNAL LINE
- .....** VIDEO OUT SIGNAL LINE
- · - · -** VIDEO IN SIGNAL LINE

NOTE:  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS  
 ALL CAPACITORS IN PF (P-PF)  
 ALL ELECTROLYTIC CAPACITORS IN  $\mu$ F/W  
 ALL INDUCTORS IN  $\mu$ H  
 ALL DIODES ARE 1S5131T  
 ALL NPN TRANSISTORS 2SC3330 (S.T.U)  
 INDICATED VOLTAGES WERE MEASURED  
 DURING E-E (STOP) MODE.  
 (INPUT: AV2-FRONT)



TO MAIN PCB 3/3 WP2

TO MAIN PCB 3/3 WP3

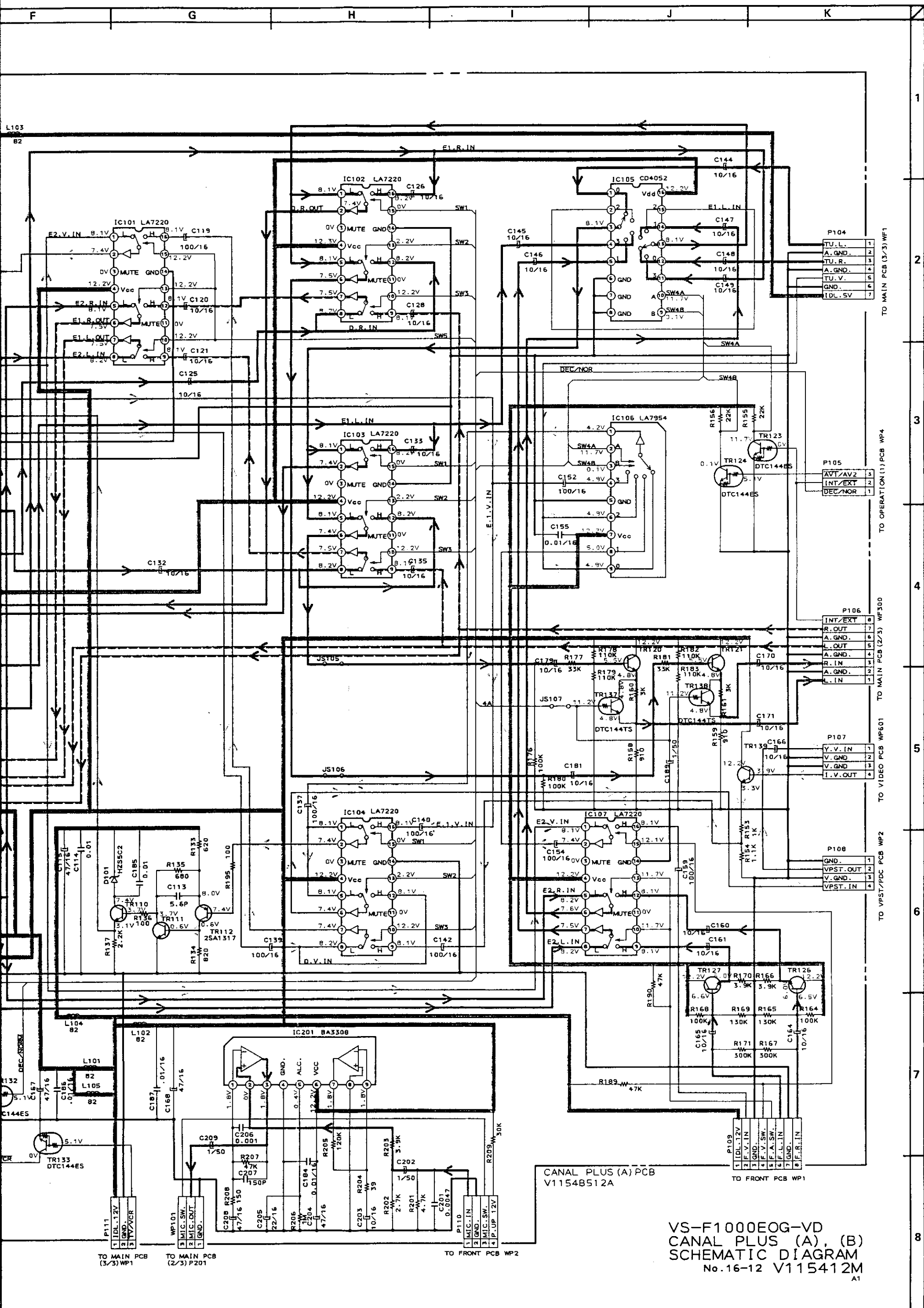
TO MAIN PCB (3/3) WP1

TO MAIN PCB (2/3) P201

TO FRONT PCB WP2

SPECIFIED  
OHMS  
K (P-PF)  
CAPACITORS IN  $\mu$ F/W  
 $\mu$ H  
S131T  
RS 25C3330 (S.T.U.)  
RESISTORS WERE MEASURED  
CODE.

CANAL PLUS (A) PC  
V11548512A



TV.L.	1
A.GND.	2
TU.R.	3
A.GND.	4
TU.V.	5
GND.	6
IDL.5V	7

AVT/AV2	3
INT/EXT	2
DEC/NOR	1

INT/EXT	6
R.OUT	7
A.GND.	8
L.OUT	5
A.GND.	4
R.IN	3
A.GND.	2
L.IN	1

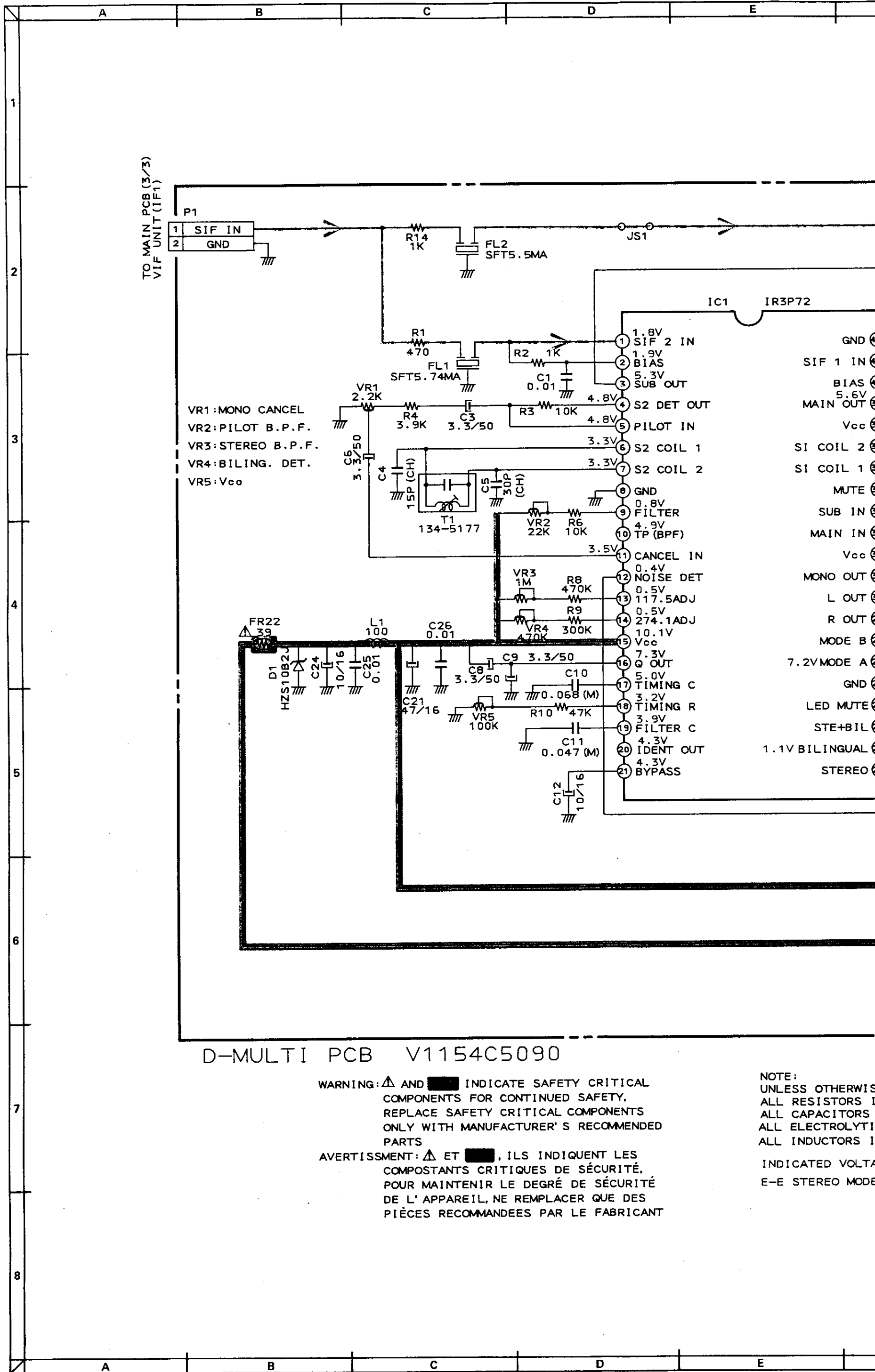
Y.V. IN	1
V.GND	2
V.GND	3
I.V. OUT	4

GND.	1
VPST. OUT	2
V.GND.	3
VPST. IN	4

CANAL PLUS (A) PCB  
V1154B512A

VS-F1000EOG-VD  
CANAL PLUS (A), (B)  
SCHEMATIC DIAGRAM  
No.16-12 V115412M  
A1

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4  
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7  
8



TO MAIN PCB (3/3)  
VIF UNIT (IF1)

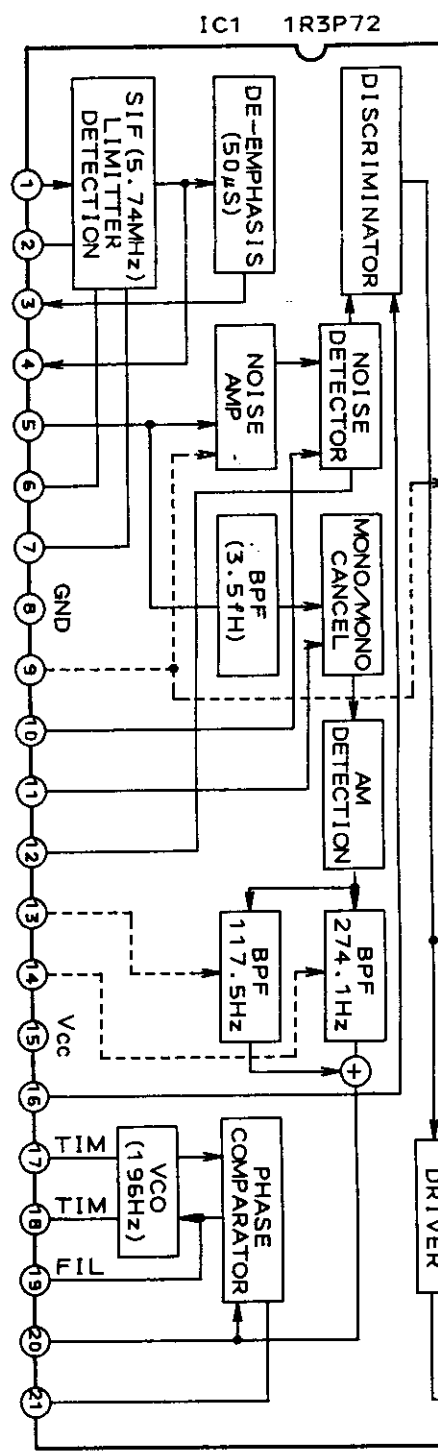
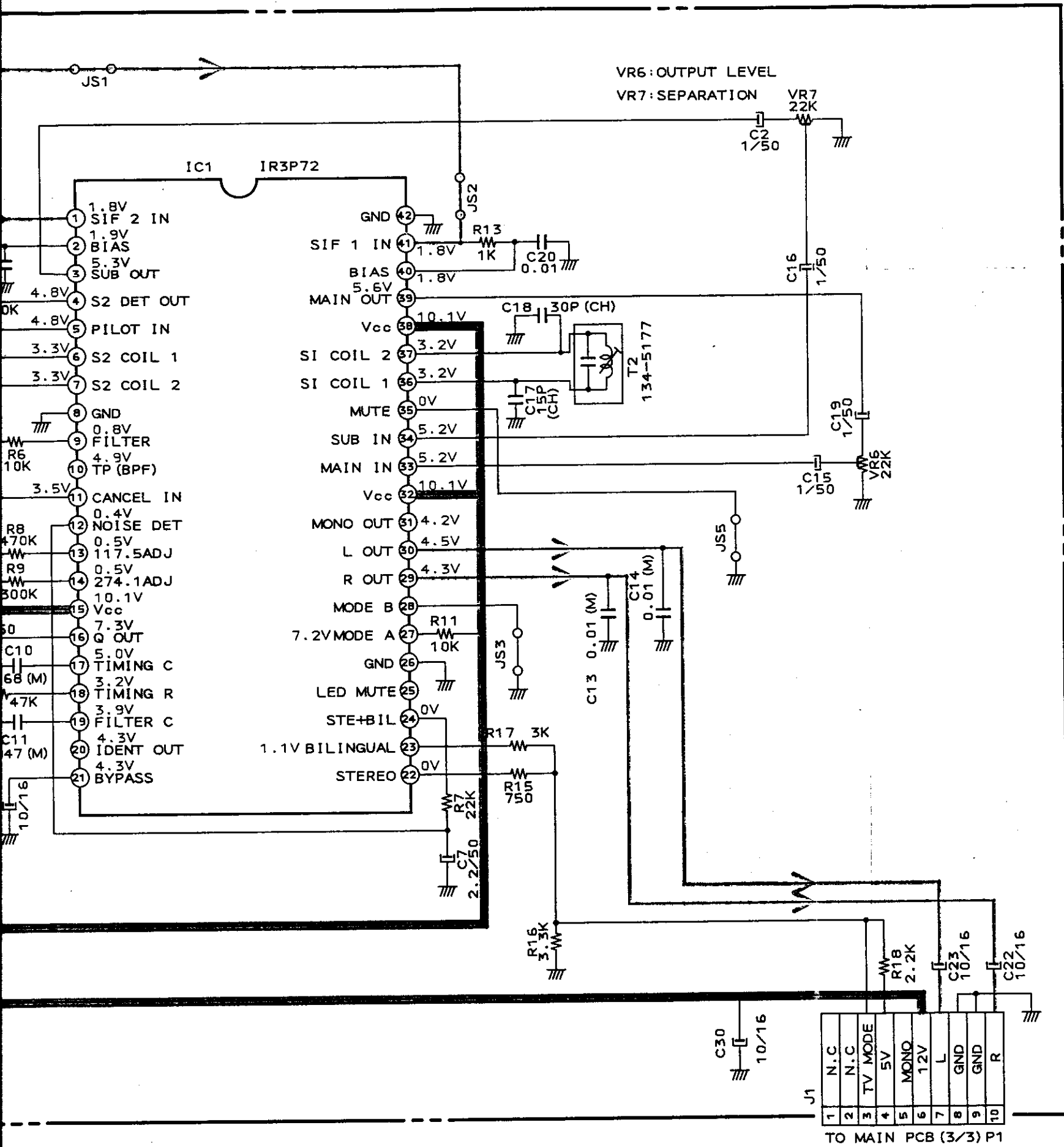
VR1: MONO CANCEL  
VR2: PILOT B.P.F.  
VR3: STEREO B.P.F.  
VR4: BILING. DET.  
VR5: Vcc

D-MULTI PCB V1154C5090

WARNING:  $\Delta$  AND  $\blacksquare$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  ET  $\blacksquare$ , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE:  
UNLESS OTHERWISE SPECIFIED,  
ALL RESISTORS IN OHMS,  
ALL CAPACITORS IN P.F.,  
ALL ELECTROLYTIC CAPACITORS IN MICROFARADS,  
ALL INDUCTORS IN MILLIHENRYS.  
INDICATED VOLTAGE IS AC UNLESS OTHERWISE SPECIFIED.  
E-E STEREO MODE



SAFETY CRITICAL  
AND SAFETY,  
COMPONENTS  
AS RECOMMENDED

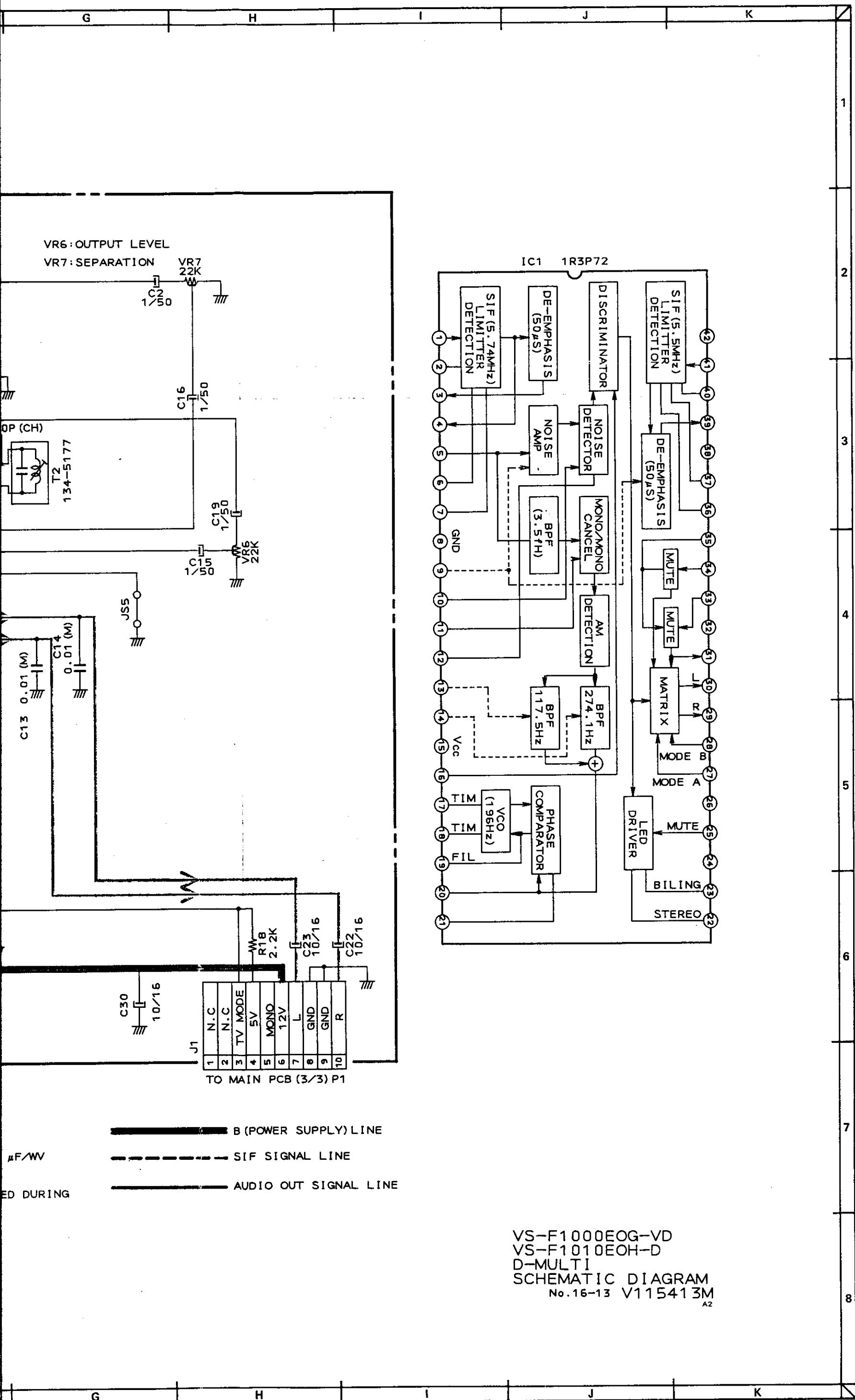
FRÉQUENT LES  
DE SÉCURITÉ,  
DE SÉCURITÉ  
VÉRIFIER QUE DES  
LE FABRICANT

NOTE:  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/6W(J)  
ALL CAPACITORS IN μF (P-PF)  
ALL ELECTROLYTIC CAPACITORS IN μF/WV  
ALL INDUCTORS IN μH(K)  
INDICATED VOLTAGES WERE MEASURED DURING  
E-E STEREO MODE

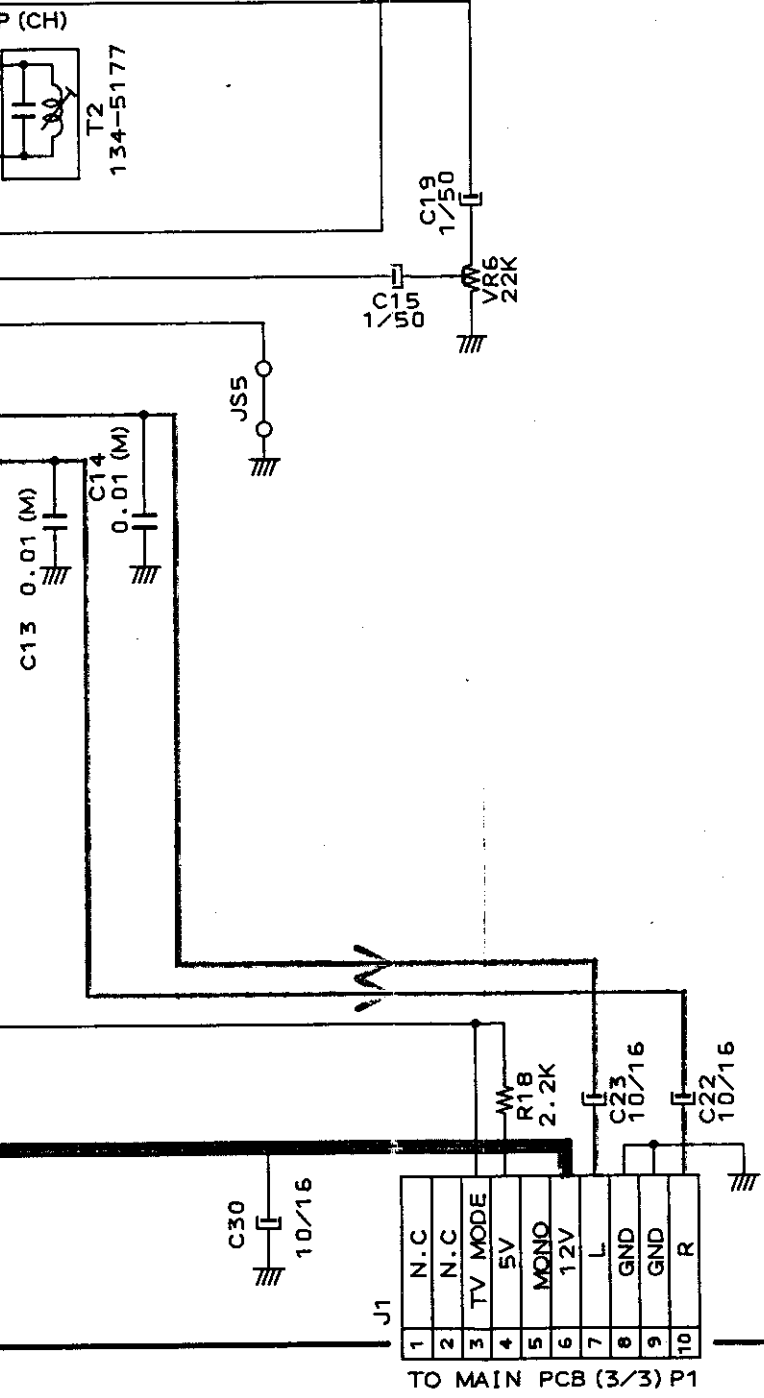
————— B (POWER SUPPLY) LINE  
- - - - - SIF SIGNAL LINE  
————— AUDIO OUT SIGNAL LINE

VS-F1000EOC  
VS-F1010EOH  
D-MULTI  
SCHEMATIC D  
No.16-13 V





VR6: OUTPUT LEVEL  
 VR7: SEPARATION



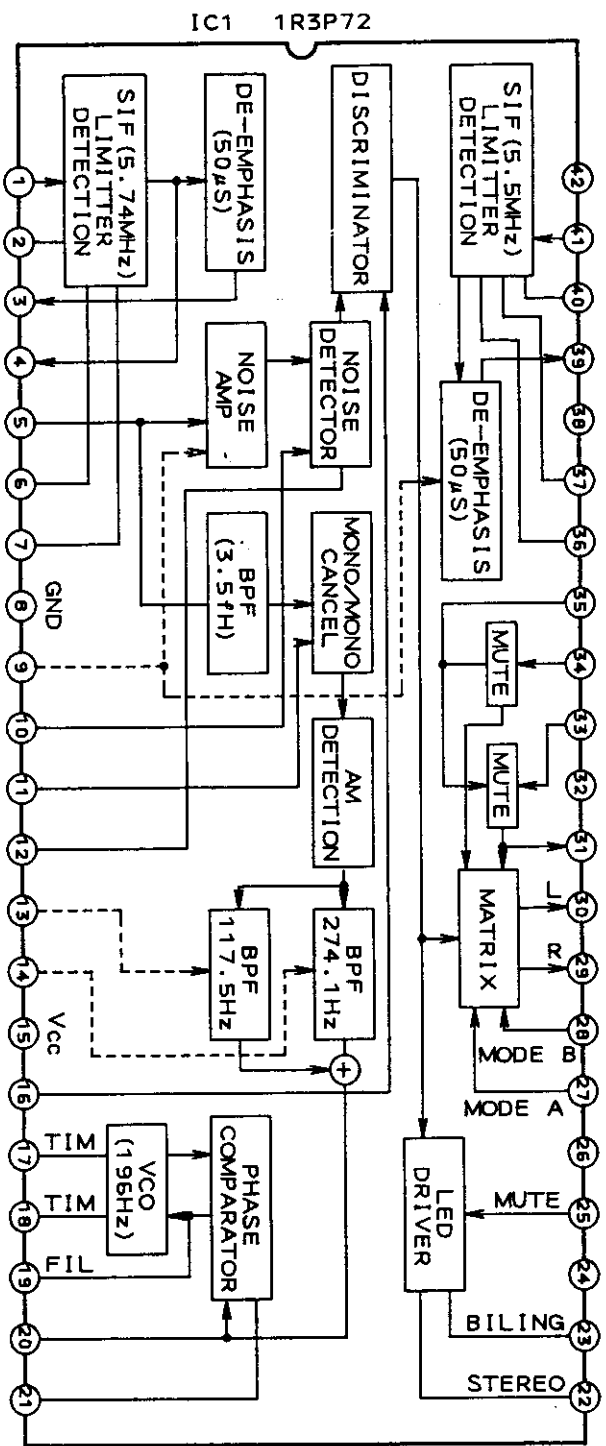
#F/W

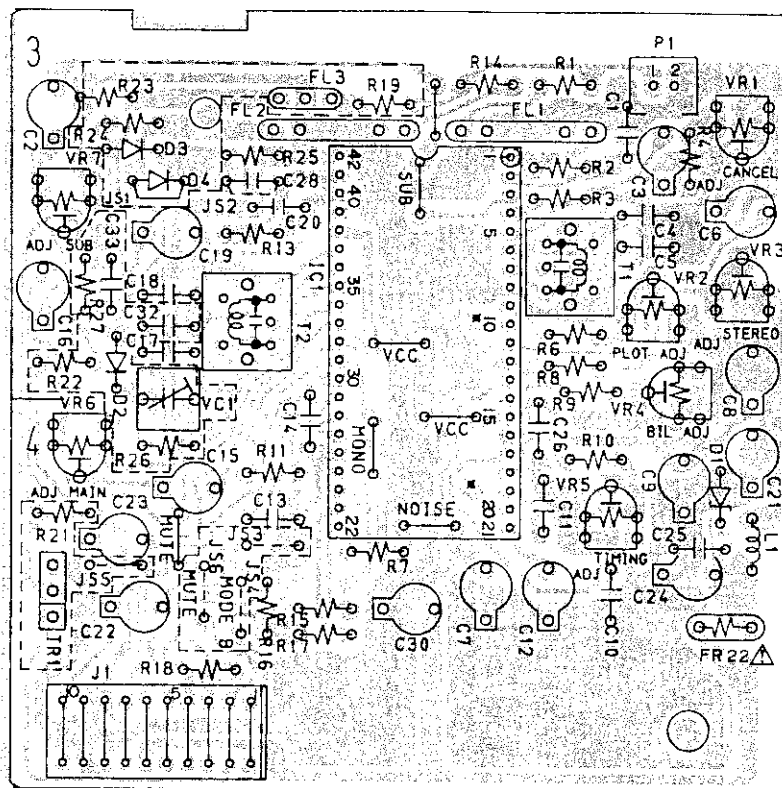
ED DURING

— B (POWER SUPPLY) LINE

- - - SIF SIGNAL LINE

— AUDIO OUT SIGNAL LINE



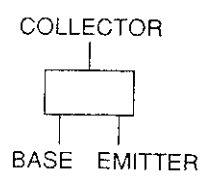
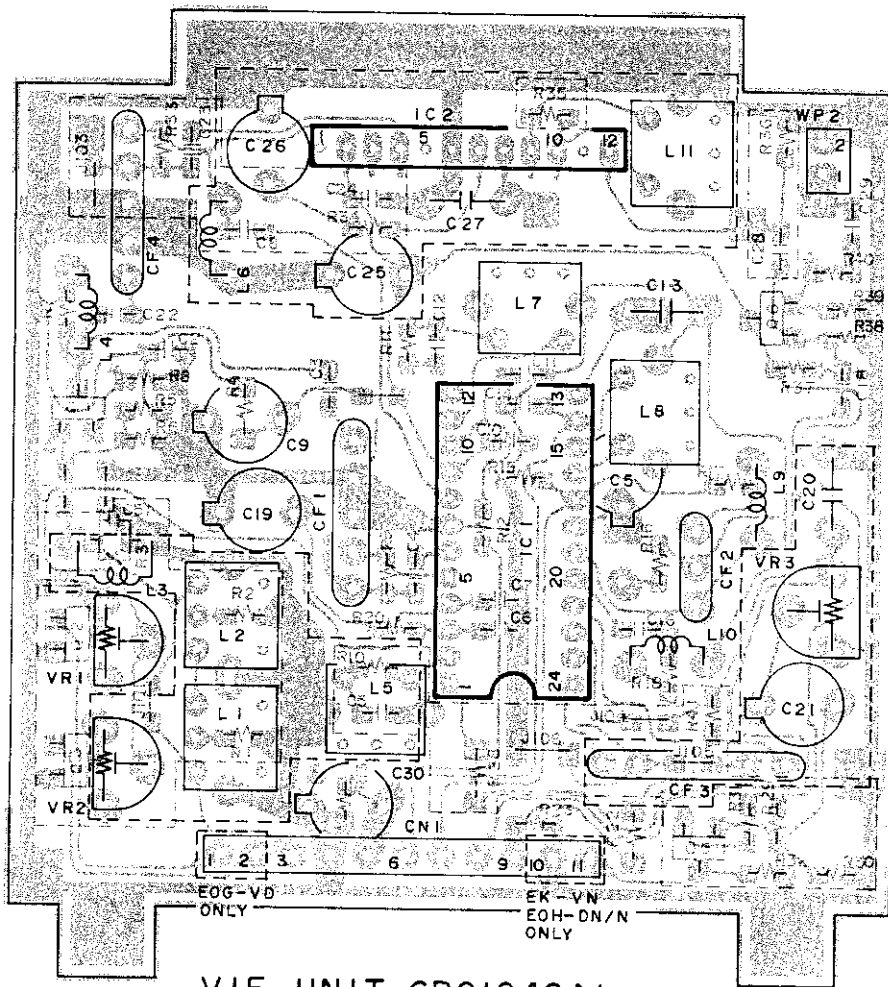


### D - MULTI PCB VII54C5090

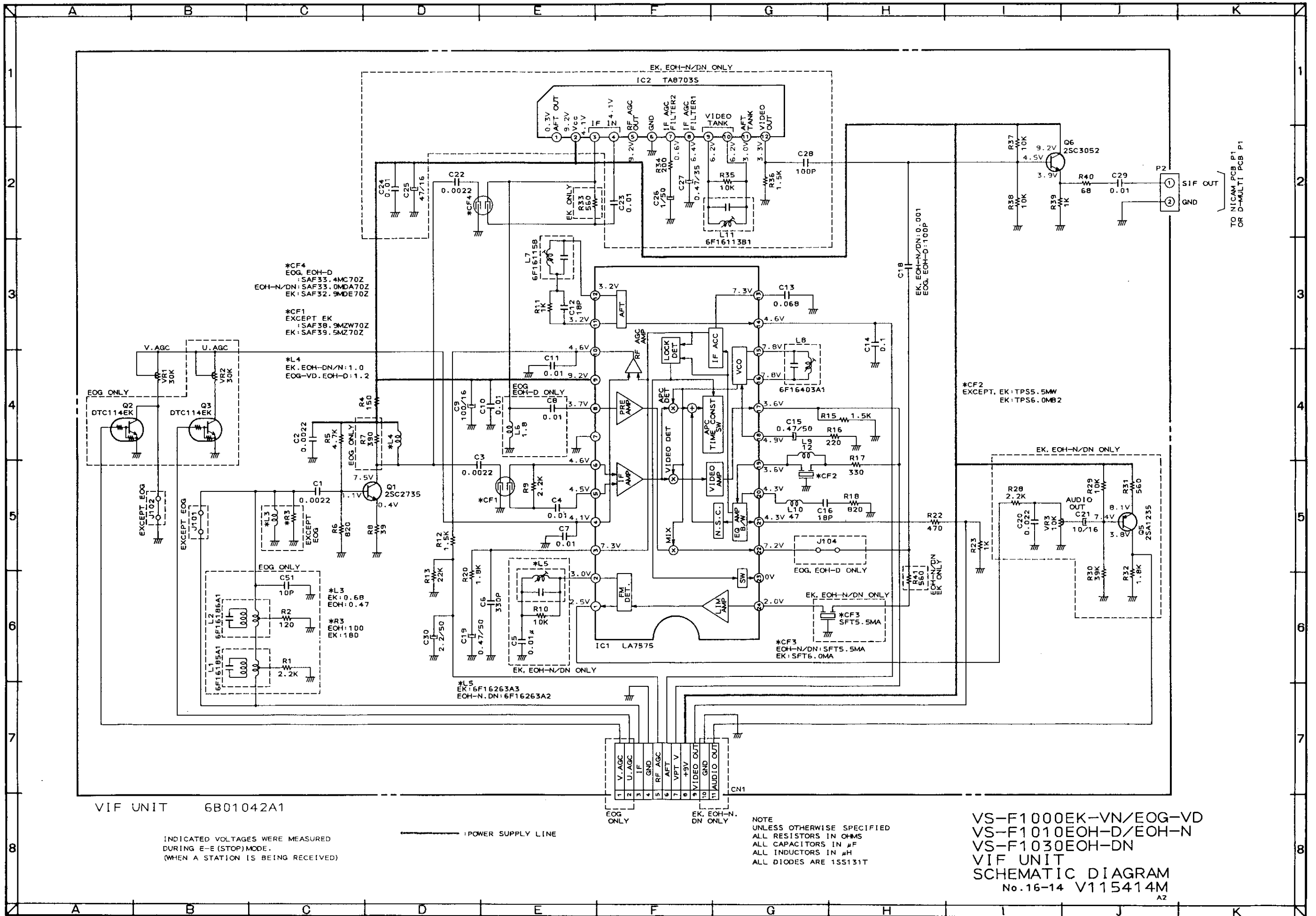
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.

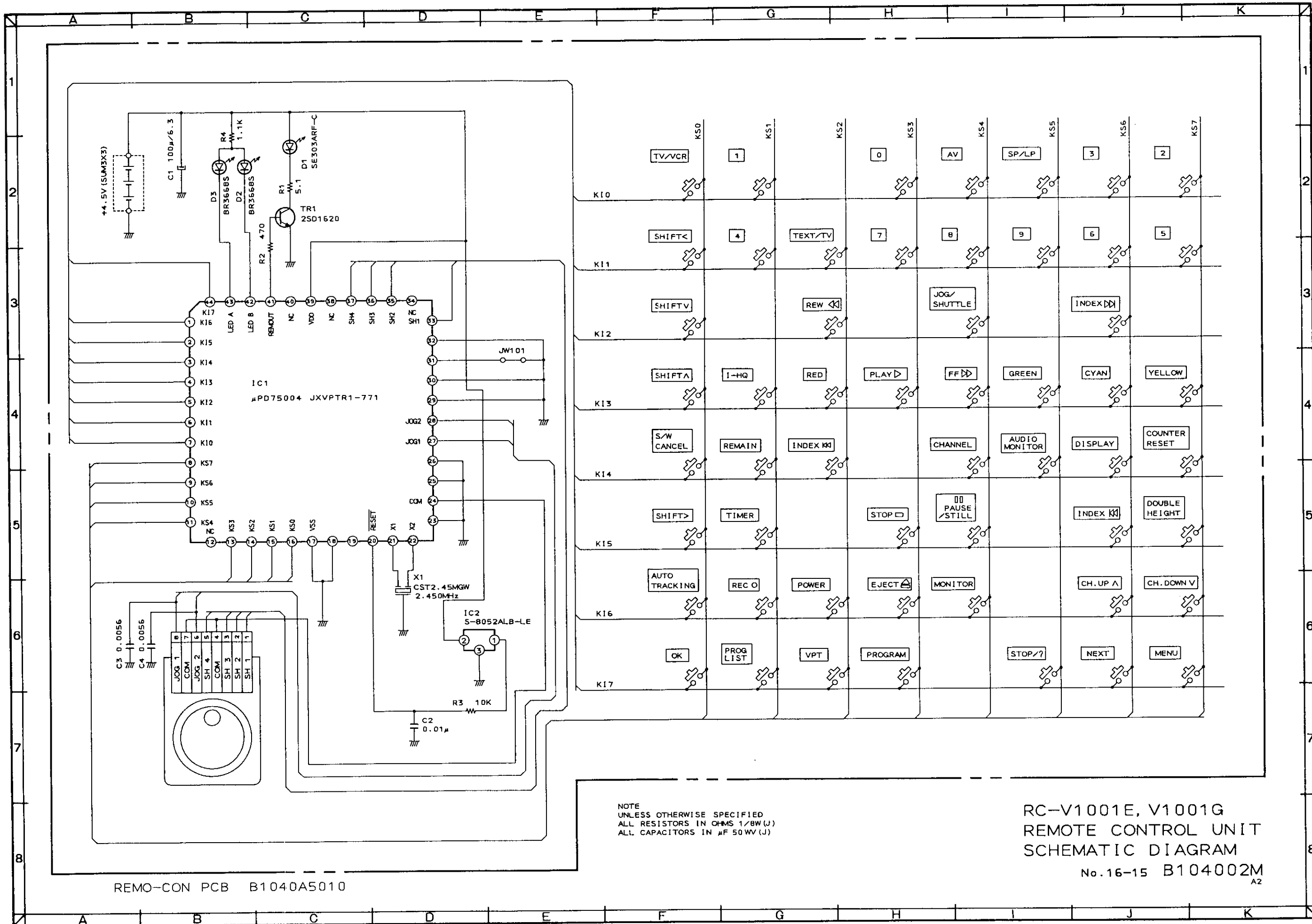
WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.  
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S  
RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.  
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,  
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



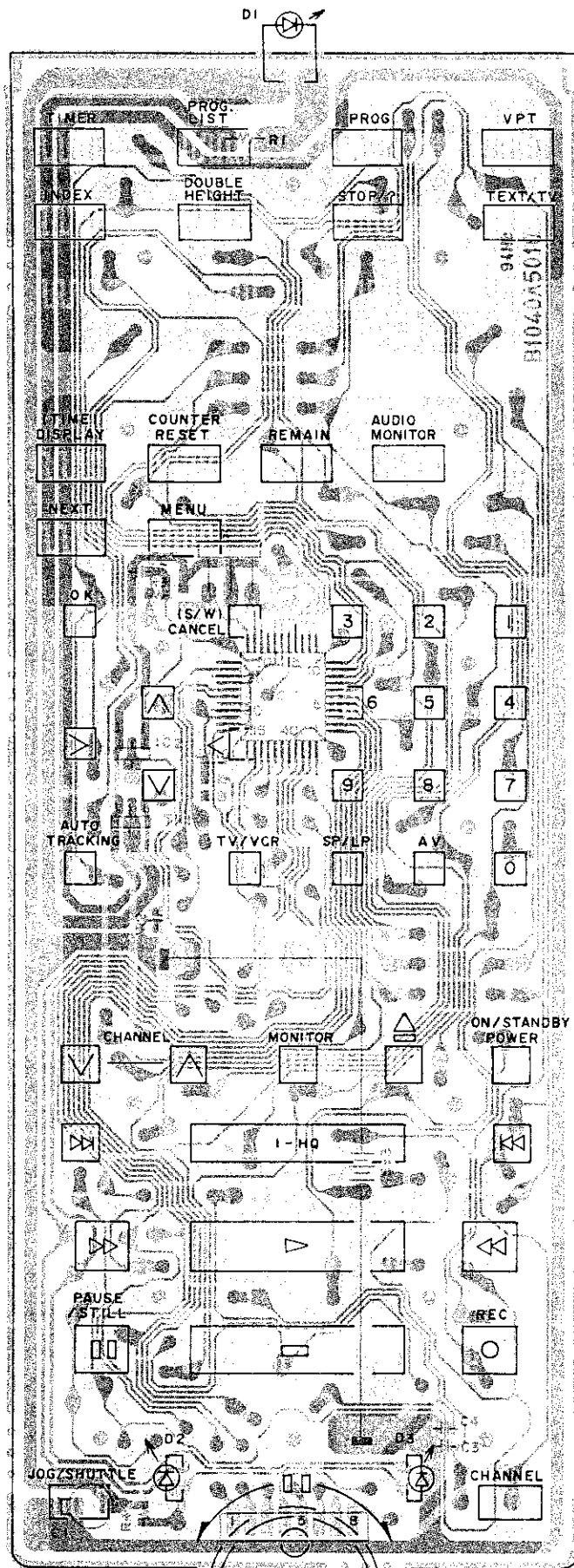
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.  
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING  
PARTS INFORMATION.



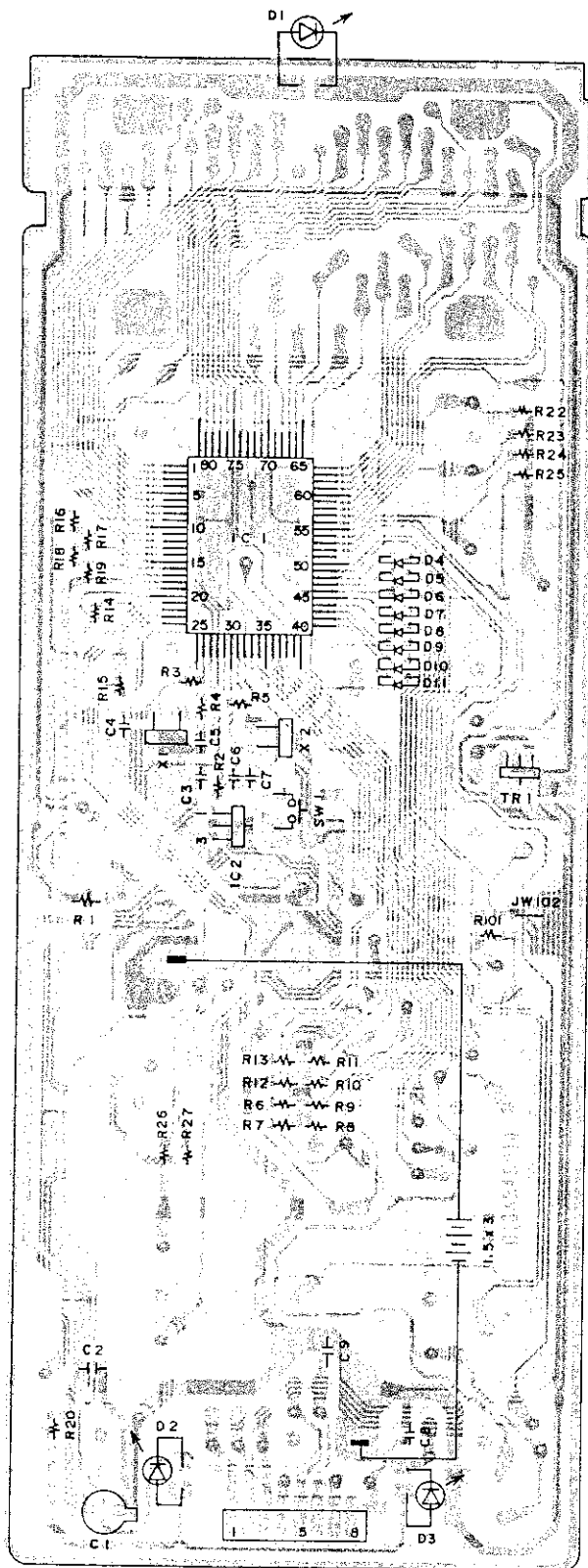


NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/8W(J)  
ALL CAPACITORS IN μF 50WV(J)

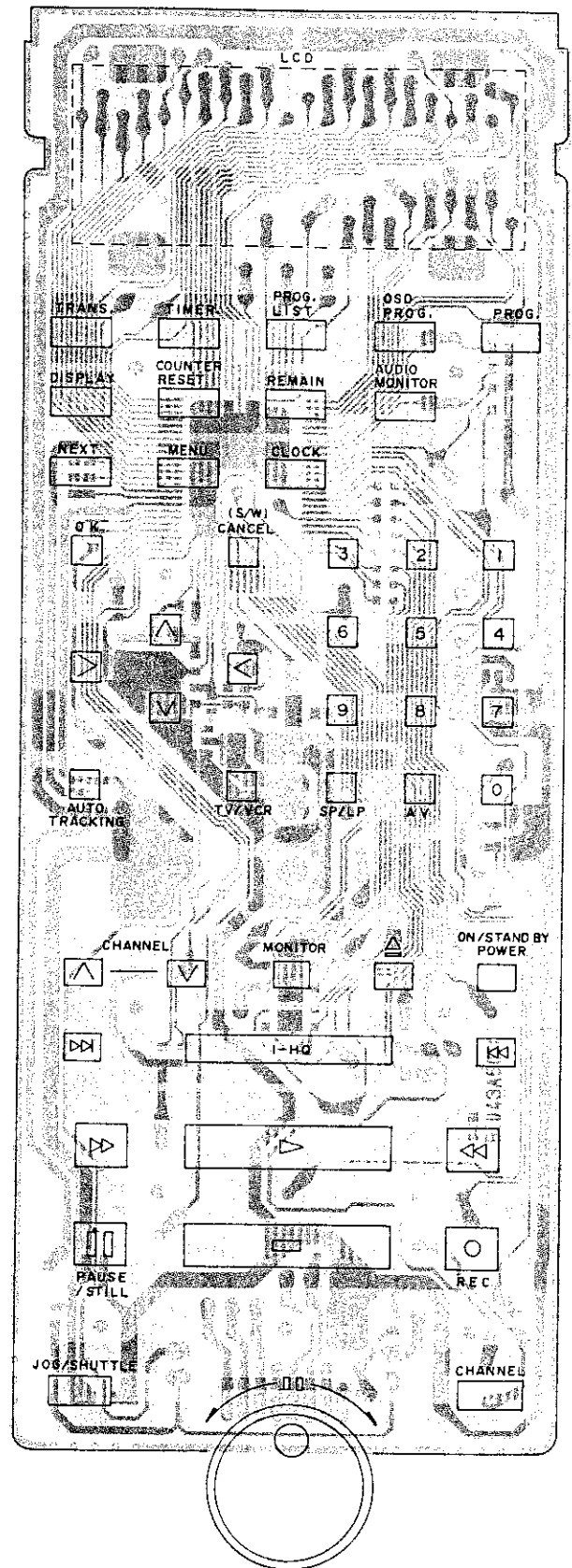
RC-V1001E, V1001G  
REMOTE CONTROL UNIT  
SCHEMATIC DIAGRAM  
No.16-15 B104002M  
A2



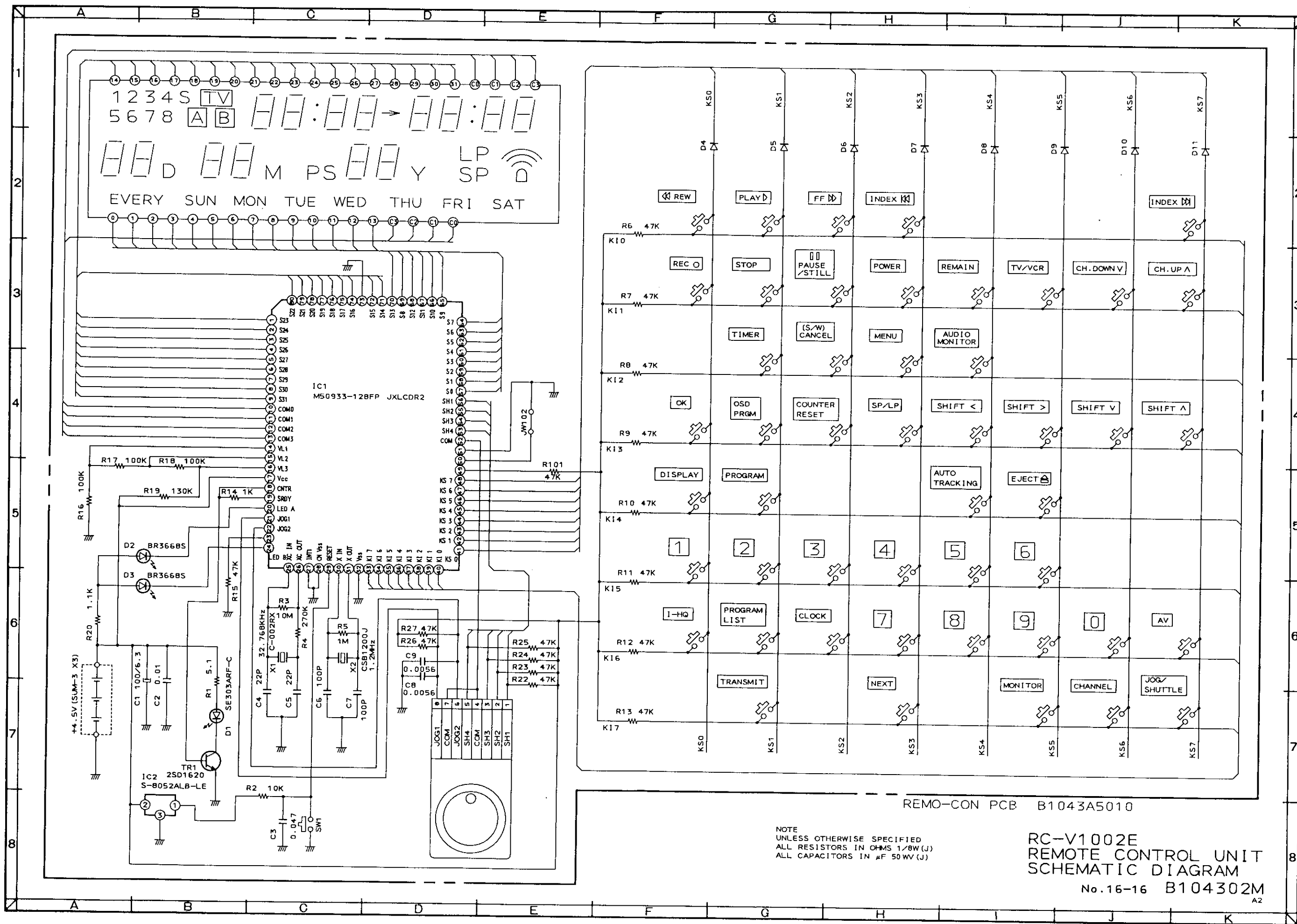
REMO-CON PCB BI040A5010



REMO-CON PCB BI043A5010J1  
(PARTS LOCATION)



REMO-CON PCB BI043A5010J1  
(SWITCH LOCATION)



REMO-CON PCB B1043A5010

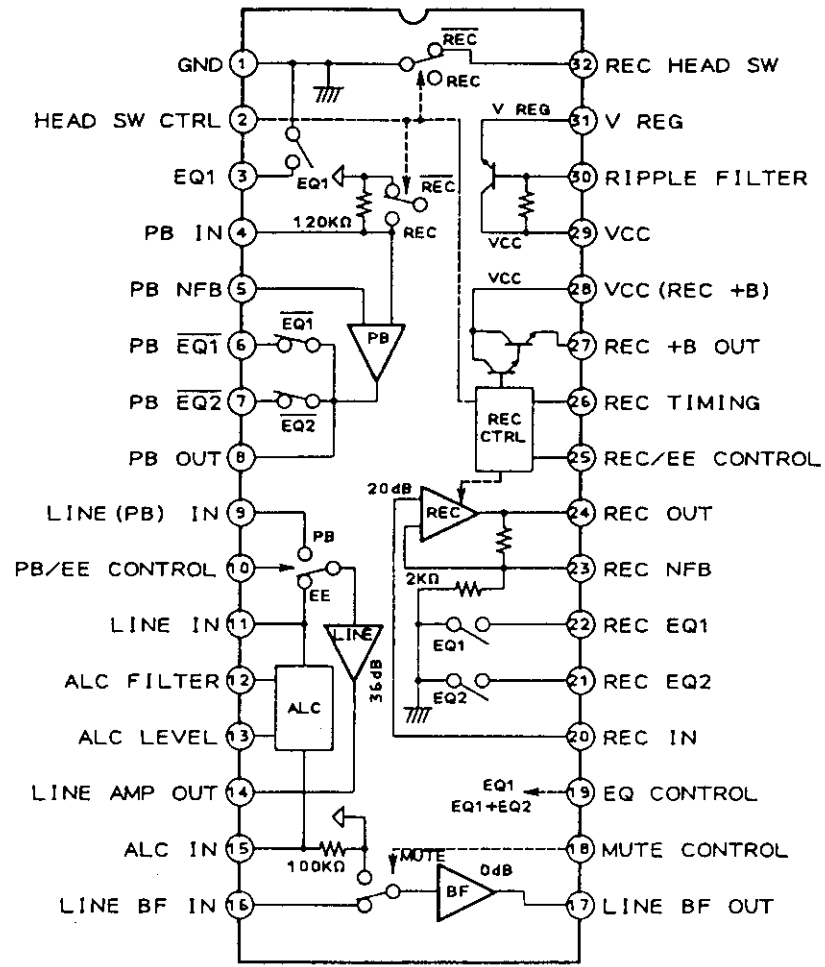
NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/8W(J)  
ALL CAPACITORS IN μF 50WV(J)

RC-V1002E  
REMOTE CONTROL UNIT  
SCHEMATIC DIAGRAM

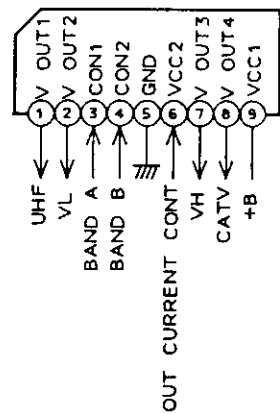
No.16-16 B104302M  
A2



BA7765AS (AUDIO SIGNAL REC/PB AMPLIFIER)



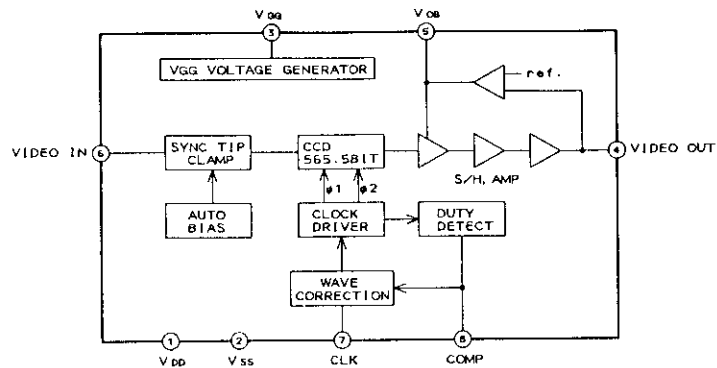
LA7910 (TUNER BAND SELECTOR)



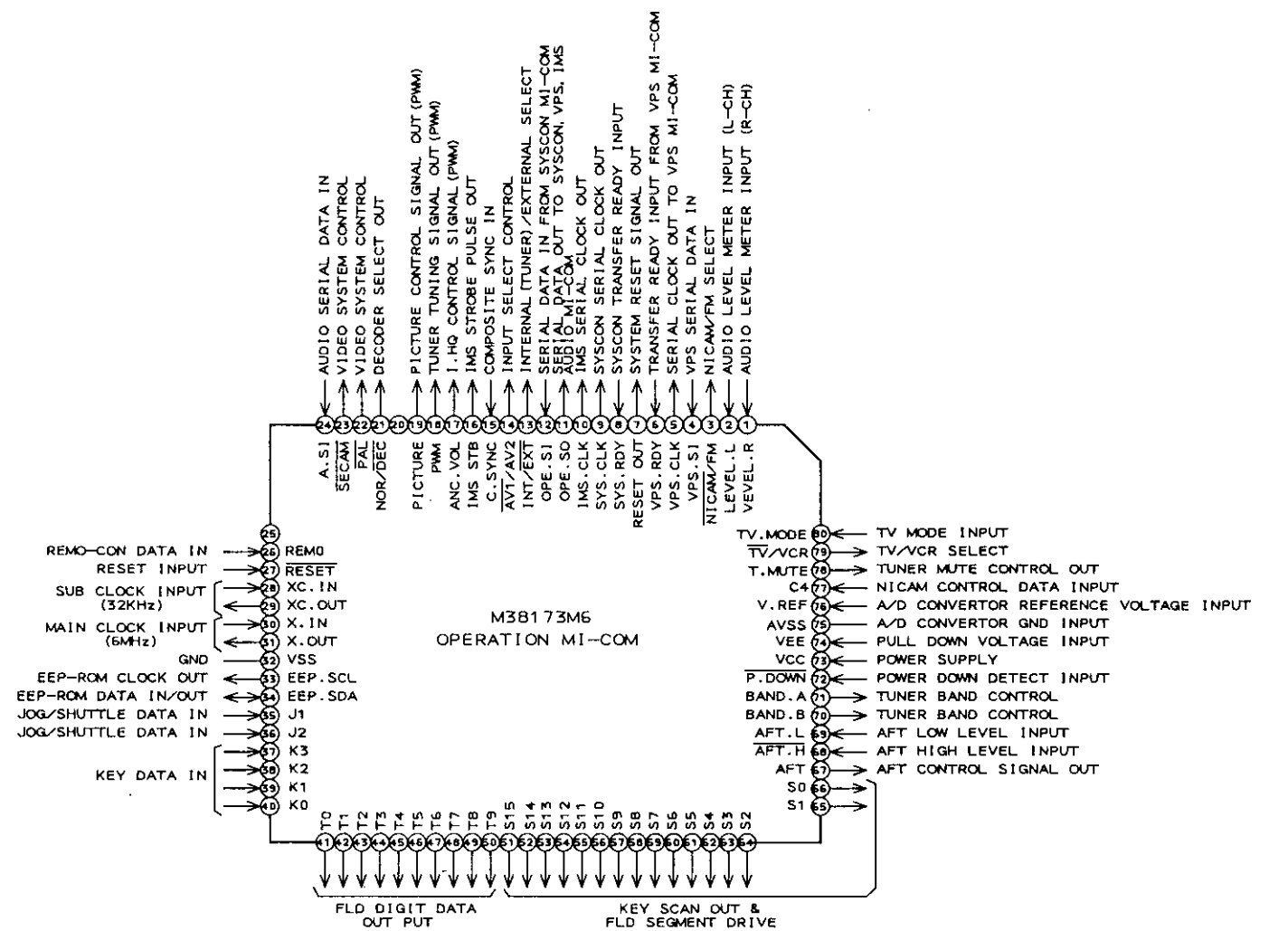
INPUT		OUTPUT			
CON1	CON2	V OUT1	V OUT2	V OUT3	V OUT4
L	L	H	Z	Z	Z
H	L	Z	H	Z	Z
L	H	Z	Z	H	Z
H	H	Z	Z	Z	H

Z: HIGH IMPEDANCE

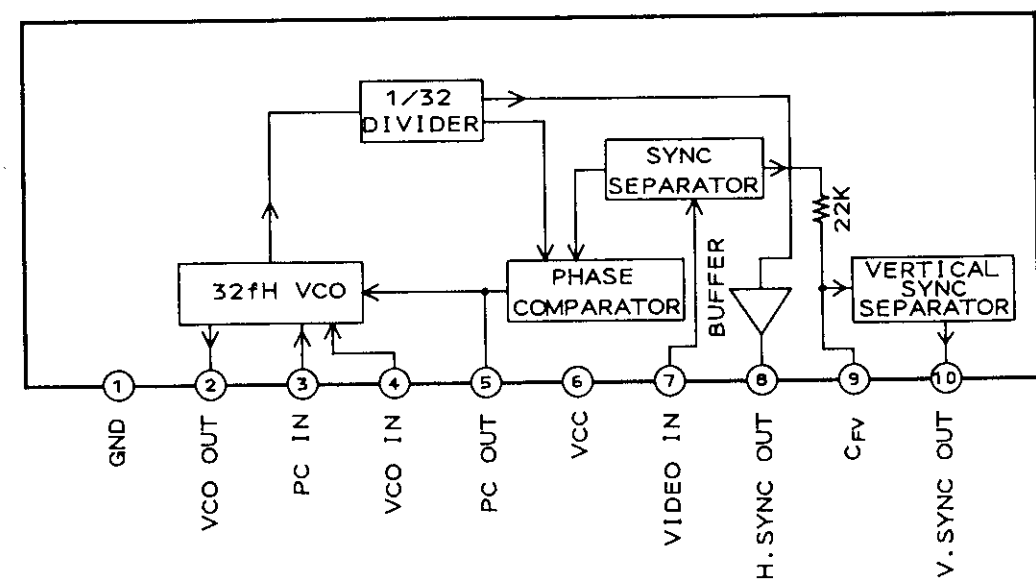
LC8992 (CCD 1H DELAY LINE)



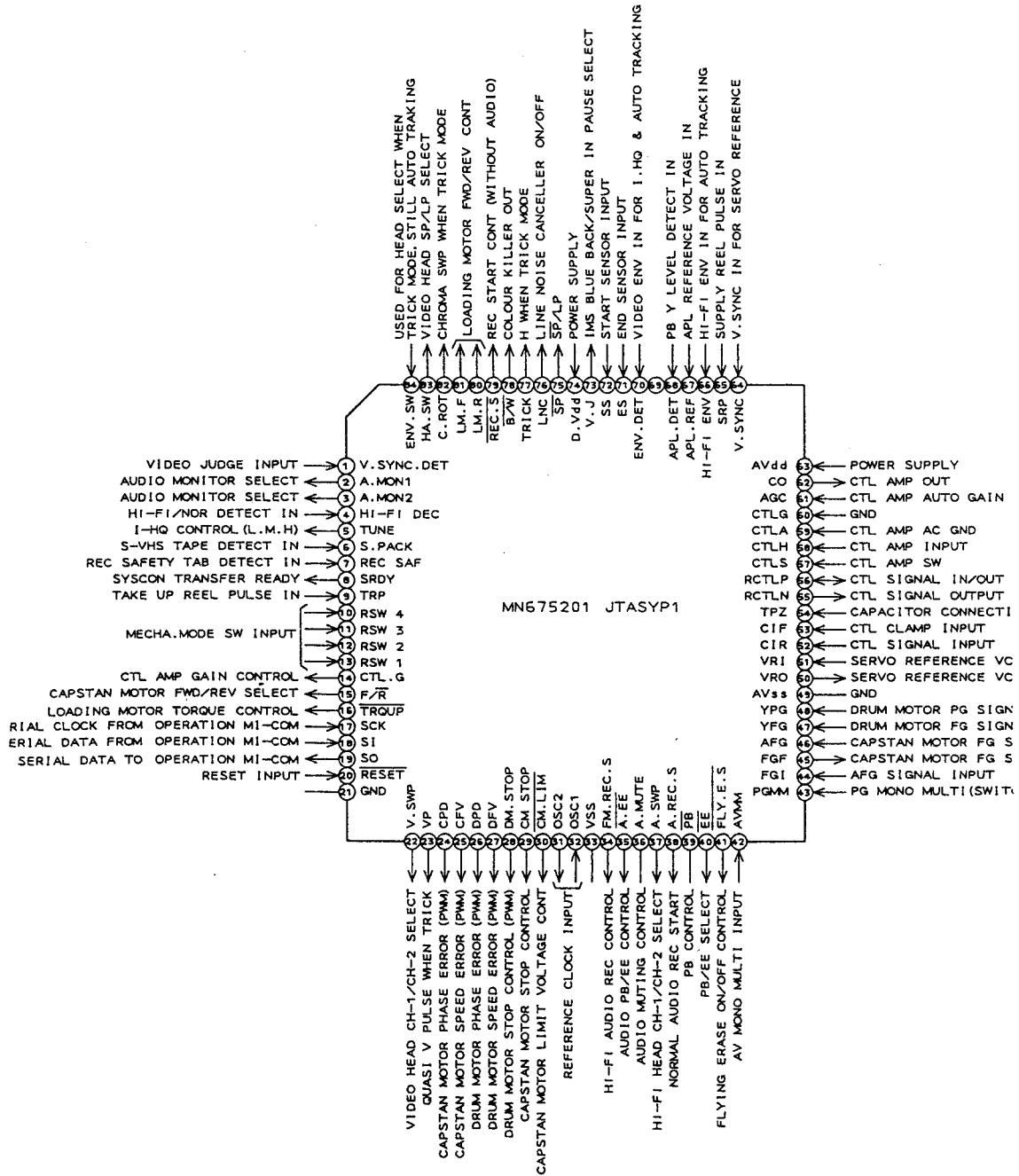
M38173M6 (OPERATION MI-COM)



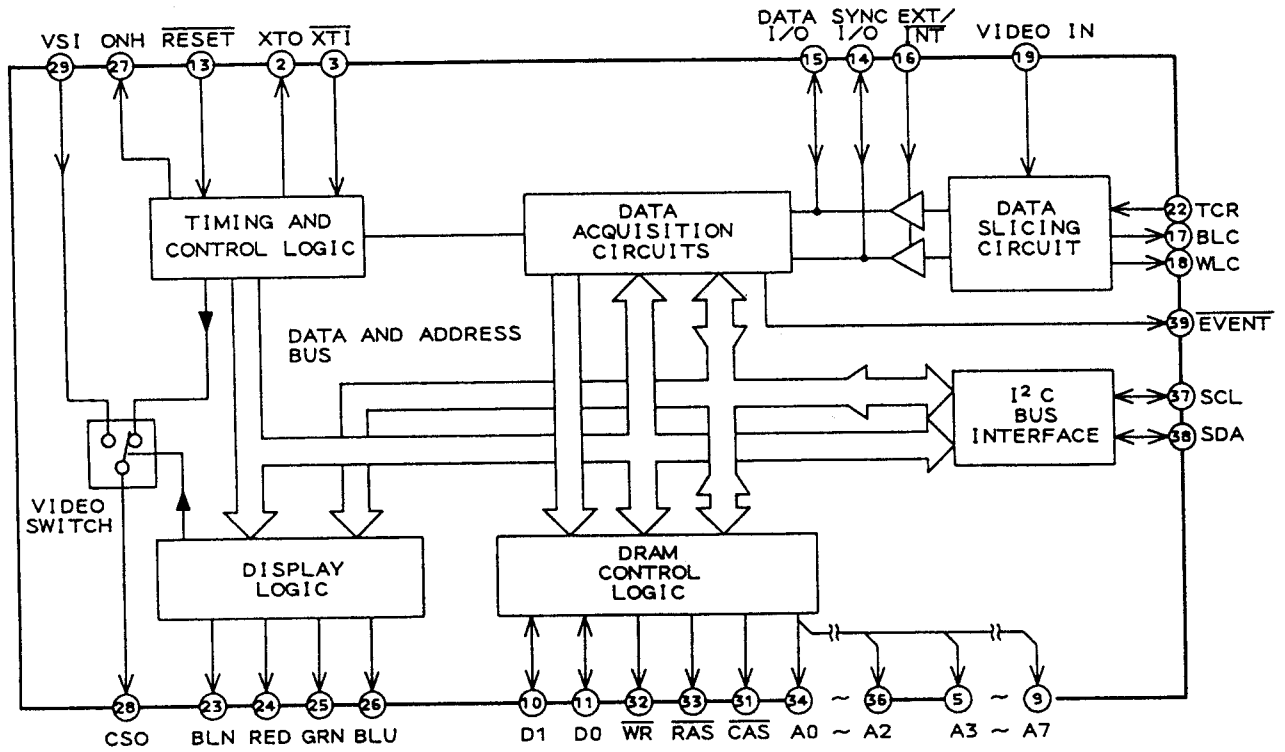
MM1068XS (SYNC SEPARATOR)



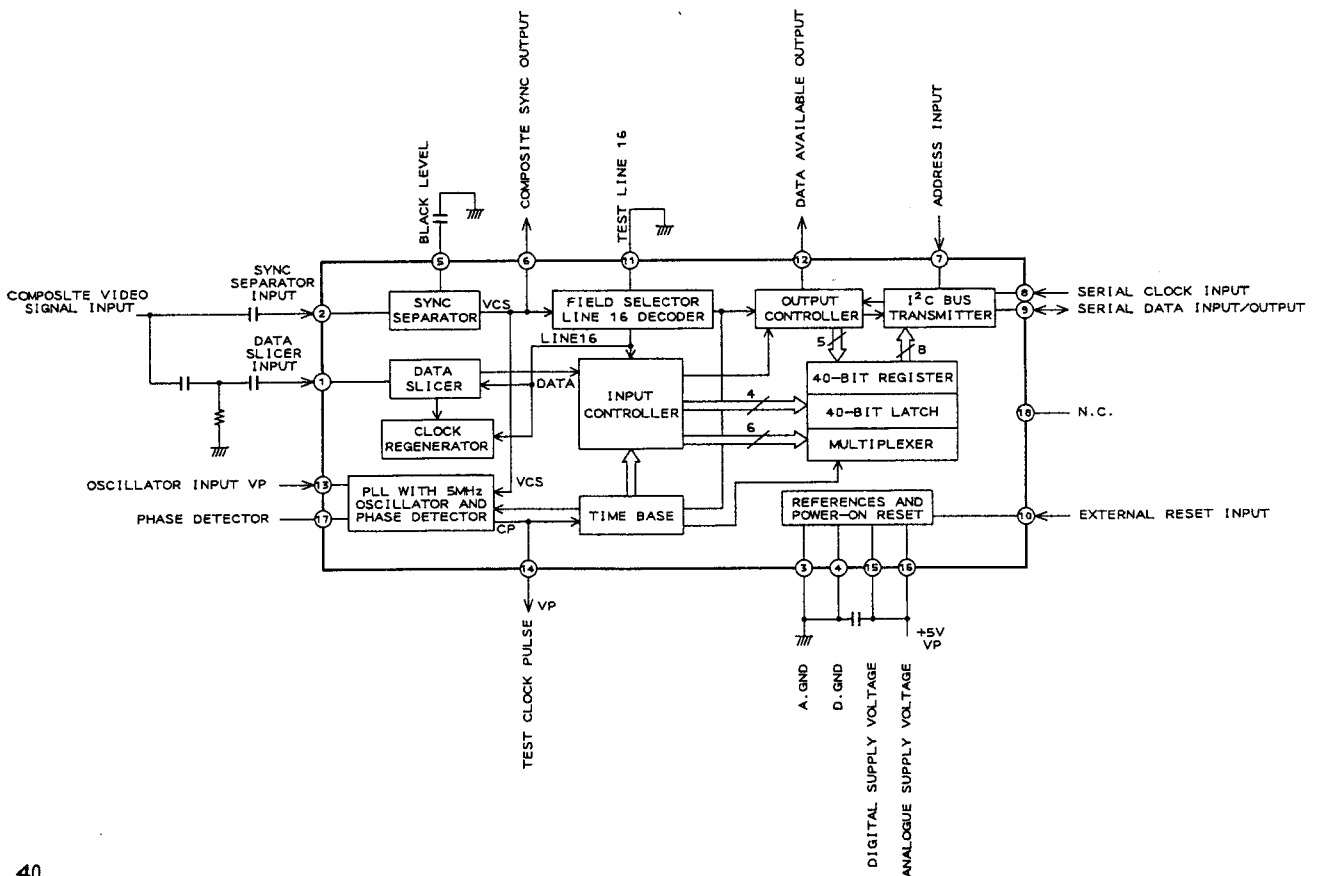
MN675201 (JTASYP1)



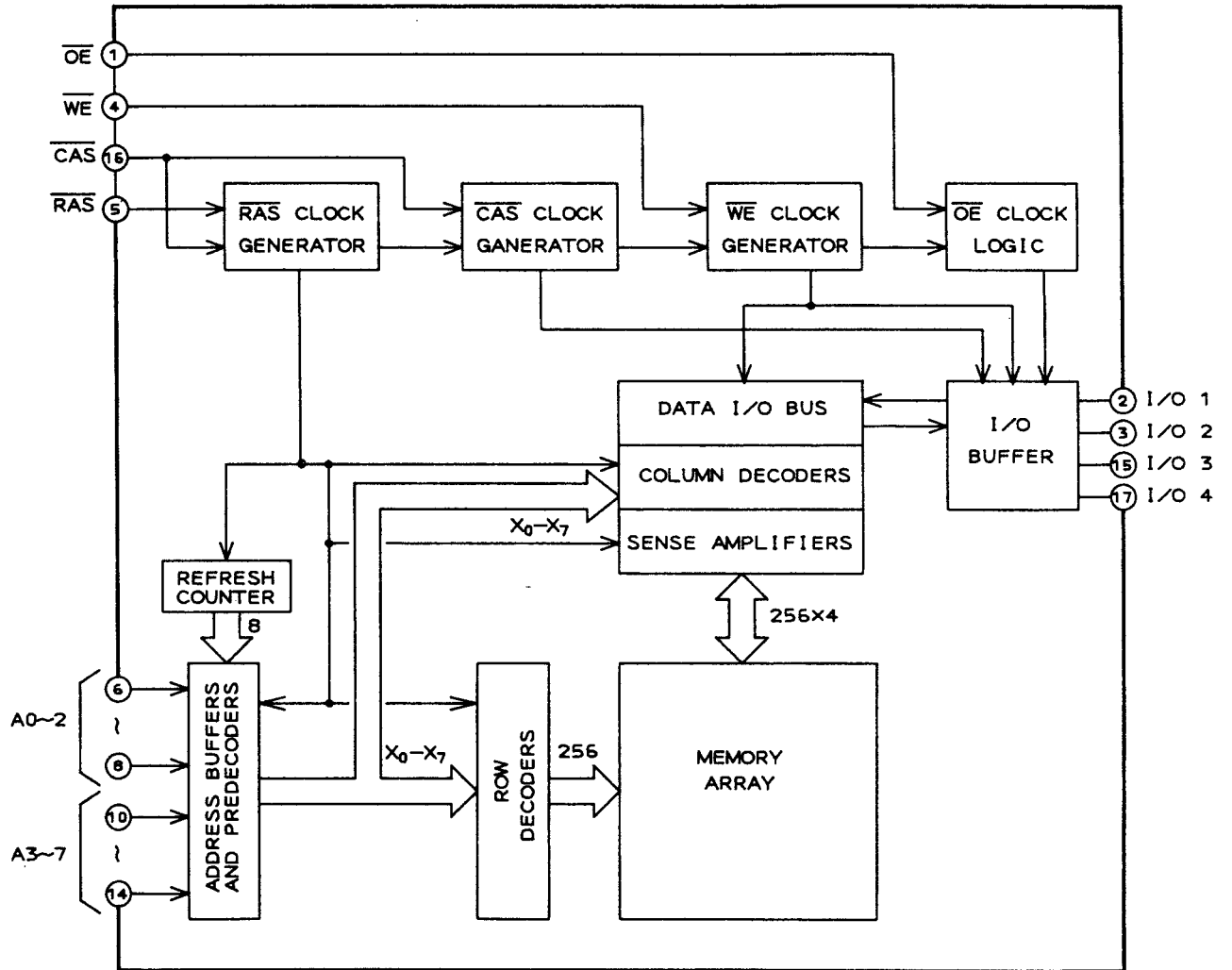
### MV1815 (TELETEXT DECODER FOR 625 LINE OPERATION)



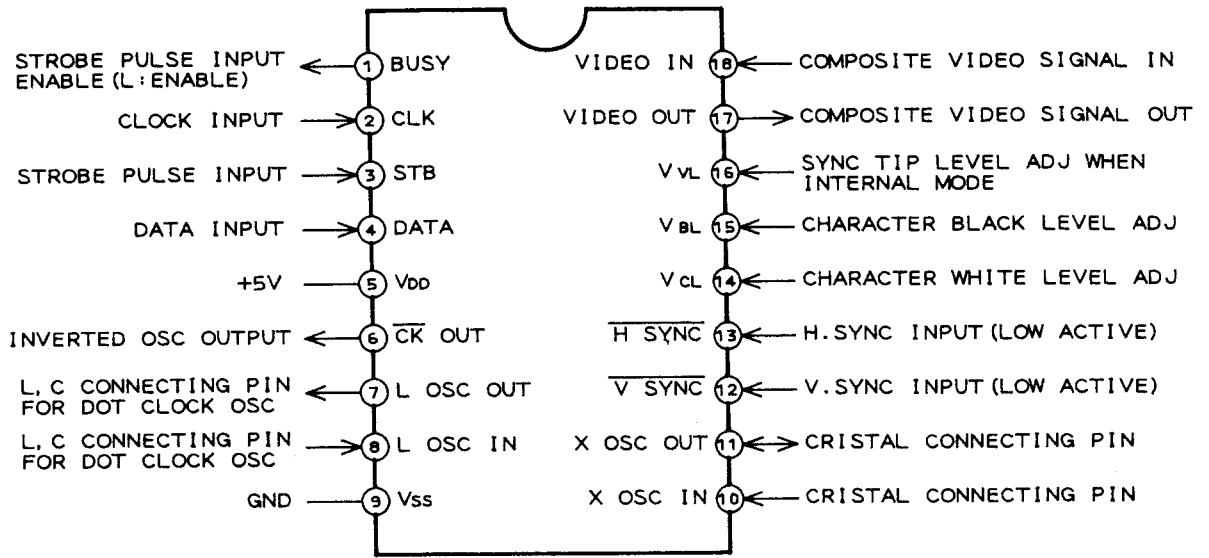
### SAA4700 (VPS DATALINE PROCESSOR)



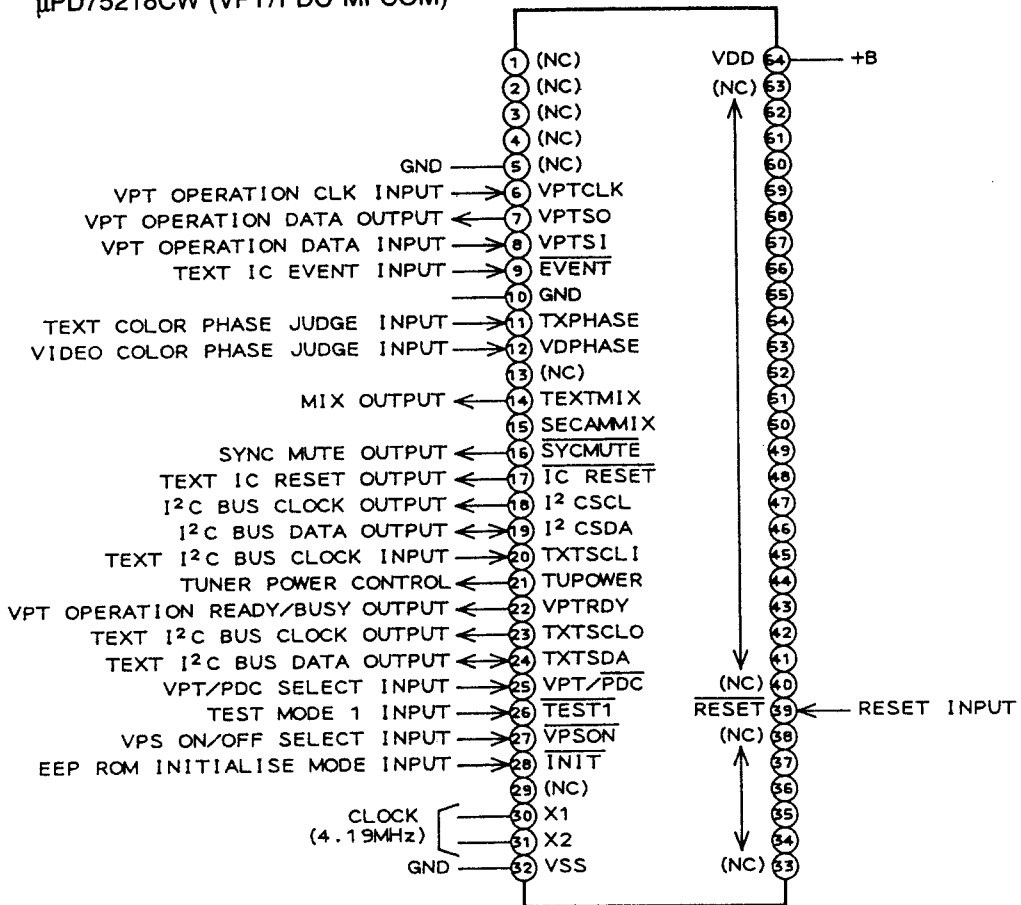
V53C464A (64K x4 BIT D-RAM)



μPD6450 (CHARACTER GENERATOR)



μPD75218CW (VPT/PDC MI-COM)



Vorh.

die SK

VS-F1000EK-2VN  
VS-F1000EOG-2VD  
VS-F1000EOK-2VN

# AKAI SERVICE MANUAL

## (ADDITIONAL)

Use this additional service manual together with the previously published service manual for the AKAI VS-F1000EK-VN/EOG-VD, VS-F1010EOH-D/EOH-N and VS-F1030EOH-DN models. For schematic diagrams and PC Boards, please refer to those provided for the VS-F1000EK-VN (for VS-F1000EK-2VN) and VS-F1000EOG-VD (for VS-F1000EOG-2VD) models.

### VIDEO CASSETTE RECORDER

MODEL **VS-F1000**<sub>EK-2VN</sub>

MODEL **VS-F1000**<sub>EOG-2VD</sub>

### SPECIFICATIONS

<b>Format</b> F1000EK-2VN ..... VHS standard F1000EOG-2VD ..... VHS standard (PAL, MESECAM)	<b>Audio (VHS Hi-Fi: 2 ch, Linear: 1 ch)</b> Line input level ..... -6 dBs/50 kohms, unbalanced Line output level ..... -6 dBs/1 kohms, unbalanced Dynamic range ..... More than 90 dB (VHS Hi-Fi) Frequency response ..... 20-20,000 Hz (VHS Hi-Fi) Wow & Flutter ..... Less than 0.005% WRMS (VHS Hi-Fi)
<b>Video recording system</b> ..... Rotary, slant azimuth two-head helical scan system <b>Rotary heads</b> ..... 4 video heads, 2 audio heads and 1 flying erase head	<b>Recording/playback time</b> SP mode ..... 240 min. with E-240 cassette LP mode ..... 480 min. with E-240 cassette
<b>RF input</b> F1000EK-2VN ..... System I with monaural or multiplexed 2 channel audio (NICAM) UHF ch 21-69 F1000EOG-2VD ..... System B, G with monaural or multiplexed 2 channel audio VHF ch 2-4, 5-12 UHF ch 21-69 Cable ch S1'-S3', S1-S41	<b>Tape speed</b> SP mode ..... 23.39 mm/sec. LP mode ..... 11.695 mm/sec.
<b>RF output</b> F1000EK-2VN ..... System I type modulation UHF ch 30-39 adjustable (preset ch 36) F1000EOG-2VD ..... System G type modulation UHF ch 30-39 adjustable (preset ch 36)	<b>Quickfinder</b> SP mode ..... approx. 5 or 15 times normal speed LP mode ..... approx. 3 or 7 times normal speed <b>FF, REW time</b> ..... approx. 4.5 min. with E-180 cassette
<b>Recording (line input)</b> F1000EK-2VN ..... PAL F1000EOG-2VD ..... PAL, SECAM (recorded as MESECAM)	<b>Timer</b> Program ..... 8 programs / 1 year and QUICK TIMER Clock reference ..... Quartz crystal <b>Display</b> ..... TV screen & FL (Tape counter Timer, etc.)
<b>Playback (line output)</b> F1000EK-2VN ..... PAL F1000EOG-2VD ..... PAL, SECAM (MESECAM tape)	<b>Power requirement</b> F1000EK-2VN ..... 240 V AC, 50 Hz F1000EOG-2VD ..... 230 V AC, 50 Hz
<b>Video</b> Line input level ..... 0.5-2.0 Vp-p/75 ohms unbalanced Line output level ..... 1.0 Vp-p/75 ohms, unbalanced S/N ratio ..... More than 45 dB Horizontal resolution ..... More than 250 lines	<b>Power consumption</b> F1000EK-2VN ..... 44 W F1000EOG-2VD ..... 41 W <b>Operating temperature</b> ..... 5°C-40°C <b>Dimensions</b> ..... 425 (W) x 99 (H) x 365 (D) mm <b>Weight</b> ..... 7.2 kg
	<b>Standard accessories</b> Antenna cable ..... 1 Remote control unit ..... 1 Batteries for remote control ..... 3 Operator's manual ..... 1

0 dBs = 0.775 V

\* For improvement purposes, specifications and design are subject to change without notice.

# I. PARTS LIST

## ATTENTION

1. When placing an order for parts, be sure to list the Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No.'s are correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

### a) Mechanism Block

#### 2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification  
 This number corresponds with the individual parts index number in that figure.

### b) PC Board

#### 6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U.E.B.S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [CA]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination  
 [A] : AAL (U.S.A)      [S] : SAA (Australia)  
 [B] : BEAB (England) [U] : U/T (Universal Area)  
 [C] : CSA (Canada)  
 [E] : CEE (Europe)    [V] : VDE (Germany)  
 [J] : JPN (Japan)      [Y] : Custom Version

SP (Service Parts) Classification  
 These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

## WARNING

△ (\*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

## AVERTISSEMENT

△ (\*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

# 1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	AV-B1040A010G	REMOCON BLK RC-V1001E [EK]	63	EH-394684J	FILTER EMI ZBF503D-00TA T05
2	AV-B1040A010H	REMOCON BLK RC-V1001G [EOG]	64	EH-394984J	FILTER LC BP SFB41743
3	BB-V1130A020F	MECHA DECK BLK F1010EOH-D	65	EH-382829J	FILTER LC BP TH316BQM-2110QDAF
4	BL-V1102A140A	ARM LOADING BLK 425EA	66	EH-364045	FILTER LC FF-78P
5	BL-387458J2	CAPSTAN BRAKE PART	67	EH-394858J	FILTER LC LP MYV-2V2
6	BL-V1123A050B	TENSION ARM BLK F10101EOH-D	68	EH-402170J	FILTER LC LP SEL-5065
7	BM-400682J3	MOTOR DFX-67B3VWB2 [CAPSTAN MOTOR]	69	EI-394680J	IC AN3171K
8	BM-401296J1	MOTOR E20EL89 [DRUM MOTOR]	70	EI-396454J	IC AN3267K
9	BM-387503J	MOTOR PART [LOADING MOTOR]	71	EI-373981J1	IC BA10393N
10	*BT-408920J	TRANS POW V1154 EA [EK]	72	EI-386468J	IC BA3308
11	*BT-408921J	TRANS POW V1154 EOG [EOG]	73	EI-364896	IC BA6138
12	BV-V1102A150A	CASSETTE LOAD BLK 425EA	74	EI-366892	IC BA7025L [EOG]
13	BV-V1102A070A	LEADER S BLK 425EA	75	EI-387586J	IC BA7244BS
14	BV-V1102A080A	LEADER T BLK 425EA	76	EI-394983J	IC BA7703K1
15	BV-V1123A410E	LOWER DRUM BLK F1010EA-D	77	EI-397285J	IC BA7740S
16	BV-403410J	RF CONVERTER MDLK6B733A EK [EK]	78	EI-388360J	IC BA7765AS
17	BV-403409J	RF CONVERTER MDLK6D755A EO [EOG]	79	EI-356457	IC BU4013B
18	BV-V1123A420F	UPPER DRUM BLK F1010EA-D	80	EI-394937J	IC CF70124
19	*EC-391843J	C DOUBLE FYD0H223Z 5.5DC	81	EI-394949J	IC IR3P72
20	ED-397391J	D LED BR3668S RED	82	EI-408959J	IC LA7220
21	ED-390011J	D LED GL451 INFRARED [D1]	83	EI-394839J	IC LA7332
22	ED-403450J	D LED SE303ARF-C INFRARED	84	EI-729997J	IC LA7575
23	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A	85	EI-390053J	IC LA7910 [EOG]
24	ED-360318	D SILICON H MA700	86	EI-408964J	IC LA7954
25	ED-307572	D SILICON H 1SS131 [EOG]	87	EI-394951J	IC LB1215
26	*ED-394708J	D SILICON RBA402 200/4.0A	88	EI-403233J	IC LB1641
27	ED-511907	D SILICON 1N4002 100/1.0A	89	EI-394856J	IC LC8992
28	ED-394936J	D VARACTOR 1SV111	90	EI-394861J	IC LVA521S-2
29	ED-364032	D ZENER H HZS10B2J	91	EI-401050J	IC LVA523SA2
30	ED-404468J	D ZENER H HZS11C3 T26	92	EI-389622J	IC L5631
31	ED-391005J	D ZENER H HZS12B1	93	EI-387019J	IC MC1377P
32	ED-410368J	D ZENER H HZS15-3 T26	94	EI-408961J	IC MM1031XS
33	ED-408721J	D ZENER H HZS2B3	95	EI-403469J	IC MM1068XS
34	ED-389686J	D ZENER H HZS2C2	96	EI-404505J1	IC MN675201A-XDZ JTASYP2
35	ED-400166J	D ZENER H HZS3B2	97	EI-419092J	IC MV1815-2ABA
36	ED-397399J	D ZENER H HZS3C3	98	EI-416978J	IC M38173M6-246FP JT2OPP1 [EOG]
37	ED-412008J	D ZENER H HZS33-1L T26	99	EI-416979J	IC M38173M6-247FP JT2OPD1 [EK]
38	ED-387762J	D ZENER H HZS36-3L	100	EI-393323J	IC M5218AL-771
39	ED-408719J	D ZENER H HZS4C2	101	EI-400756J	IC NJM4558L-B
40	ED-408915J	D ZENER H HZS5A2	102	EI-201940	IC NJM4558S
41	ED-388358J	D ZENER H HZS5C2	103	EI-400672J	IC S-8052ALB-LE
42	ED-397233J	D ZENER H HZS5C3	104	EI-373955	IC S-8053ALR
43	ED-387919J	D ZENER H HZS6A1L	105	EI-385958J	IC SAA4700 [EOG]
44	ED-378530J	D ZENER H HZS6B2L	106	EI-397560J	IC SAA7322GP
45	ED-403743J	D ZENER H HZS6B3	107	EI-405224J	IC ST24C02AB1/AAB
46	ED-387783J	D ZENER H HZS6C3L	108	EI-410265J	IC ST24C04B1
47	ED-387763J	D ZENER H HZS7B3L	109	EI-397123J	IC TA8703S
48	ED-388368J	D ZENER H HZS9B3L	110	EI-332259	IC TC4052BP
49	ED-387765J	D ZENER H HZS9C1L	111	EI-408930J	IC TDA8732
50	*EF-601964	FUSE SEMKO T 250V 1.60A	112	EI-405722J	IC UPD6450CX-515
51	*EF-601301	FUSE SEMKO T 250V 2.00A	113	EI-408449J	IC UPD75004GB-771 JXVPT1 QF
52	EH-416491J	DL EFDJLA13A	114	EI-408432J3	IC UPD75218CW-025 JXVPT4 [EOG]
53	EH-725827J	FILTER CE SAF32.9MDE70Z	115	EI-410521J3	IC UPD75218CW-029 JXPDC4 [EK]
54	EH-730625J	FILTER CE SAF38.9MZW70Z	116	EI-410125J	IC V53C464AP-80
55	EH-732528J	FILTER CE SAW SAF33.4MC70Z	117	EI-403467J	OSC CE CSB500F40 15.680KHZ
56	EH-714628	FILTER CE SAW SAF39.5MZ70Z	118	EI-408450J	OSC CE CST2.45MGW 2.450MHZ
57	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG]	119	EI-405327J	OSC CE CST6.00MGW 6.000MHZ
58	EH-394948J	FILTER CE SFT5.5MA	120	EI-367882J1	OSC CE FCR4.19MC3 4.190MHZ
59	EH-394947J	FILTER CE SFT5.74MA	121	EI-414624J	OSC XTAL APS-1002 8.000MHZ
60	EH-416920J	FILTER CE SFT6.0MA	122	EI-416872J	OSC XTAL APS1004A 17.734475MH
61	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ	123	EI-368825M	OSC XTAL C-002RX 32.768KHZ
62	EH-373919	FILTER CE TPS6.0MB	124	EI-408433J	OSC XTAL HC-43/U 27750KHZ
			125	EI-408933J	OSC XTAL HC-49/U 11648KHZ
			126	EI-408931J	OSC XTAL HC-49/U 13104KHZ
			127	EI-394673J	OSC XTAL HC-49/U 8867.238KHZ
			128	EI-403347J	OSC XTAL NR-18-S 16.384MHZ
			129	EI-381632J	OSC XTAL 86686 4.433619MHZ
			130	EM-408445J	IND FL FV548G CHARACTER
			131	EO-394950J	COIL DET 1 134-5176
			132	EO-396464J	COIL DET 1 134-5177
			133	EO-408439J	COIL OSC 1 125-8019-31 70.0KHZ
			134	EO-408440J	COIL OSC 1 125-8020-41 70.0KHZ
			135	*ER-331619	R FUSE H S10 ERD2FCV 1/4W 39R0G
			136	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J
			137	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G



Ref. No.	Part No.	Description
138	*ER-408963J	R FUSE V T05 RF25SCVTP1/4WR33K
139	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
140	*ER-403405J	R OMF H S12 FS 1W R75J
141	ES-373099	SW LEAF MTS10110MPC1
142	ES-391710J	SW LEAF SPPB51 01-1 NO
143	ES-416839J	SW MICRO MPU10240MMB0
144	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
145	ES-408428J	SW ROTARY ENCODER SRGPPJ
146	ES-409005J	SW ROTARY ENCODER SRGPPJ-1
147	ES-397339J	SW SLIDE ESD-170252
148	ES-409007J1	SW TACT HKW0606-01-500
149	ET-408988J	DETECTOR SBX1619-52
150	ET-403420J	DETECTOR SG-105LF [PH1][PH2]
151	ET-731437J	TR CHIP DTA114EK
152	ET-713614	TR CHIP 2SA1235 E,F
153	ET-725820J	TR CHIP 2SC2735J
154	ET-413009J	TR CHIP 2SC2884-Y TE12R T12E
155	ET-356336	TR DTA114ES
156	ET-408827J	TR DTA114TL T05
157	ET-363953	TR DTA114TS
158	ET-354415	TR DTA144ES
159	ET-373985	TR DTA144TS
160	ET-364065	TR DTA144WS
161	ET-353897	TR DTC114ES
162	ET-360399	TR DTC114TS [EK]
163	ET-394881J	TR DTC114WS
164	ET-382952J	TR DTC123ES
165	ET-354371	TR DTC124ES
166	ET-408826J	TR DTC143EL T05
167	ET-364060	TR DTC143ES
168	ET-354364	TR DTC143TS [EOG]
169	*ET-373391	TR DTC143ZS
170	ET-396488J	TR DTC144EL T05
171	ET-354414	TR DTC144ES
172	ET-370310	TR DTC144TS [EOG]
173	ET-356236	TR FET 2SK363 GR,BL [EOG]
174	ET-361490	TR PHOTO PN268 [TR1]
175	ET-390009J	TR PHOTO PT493F [TR4]
176	ET-364040	TR UN421D
177	ET-356224	TR 2SA1286 G,H,J F05
178	ET-353899	TR 2SA1317 S,T,U
179	*ET-404498J	TR 2SB1306 Q,R T05
180	ET-388338J	TR 2SB1425 S,E
181	*ET-408841J	TR 2SB1565 E,F
182	ET-414816J	TR 2SC2668 Y T05
183	ET-397160J	TR 2SC3330 R,S,T,U,V
184	*ET-366168	TR 2SD1292 Q,R
185	ET-373025	TR 2SD1944 J1,J2,K
186	*ET-405622J	TR 2SD2061 E,F
187	*ET-408842J	TR 2SD2394 E,F
188	ET-370819	TR,CHIP 2SC3052
189	EV-401032J	VR SLIDE RS30B221J K203X2NO CL
190	EW-389317J	CORD FFC P1.25 L=180 15P
191	EX-405691J	THERMISTOR NTH5D332KA
192	HE-390013J	HEAD E HVFME0020A
193	HR-405340J	HEAD COMBO HVMZA1121A
194	MB-407117J	BELT CAPSTAN (3)
195	MI-404552J1	IDLER (2) PART
196	ML-391745J3	ARM DAMPER
197	ML-387350J1	ARM LID OPENER
198	ML-387277J4	ARM REVIEW PART
199	ML-387402J1	LEVER TRIGGER
200	ML-387316J	MAIN BRAKE (S) PART
201	ML-387318J	MAIN BRAKE (T) PART
202	ML-407119J	REVIEW BRAKE (3) PART
203	ML-404567J1	SLIDER BRAKE (3) PART
204	ML-404944J	SLIDER TRIGGER (2)
205	MP-404852J	PINCH ROLLER (2) PART
206	MR-387406J	HOLDER THRUST WORM
207	MR-391968J	PULLEY TRIGGER (2)
208	MR-407378J1	ROLLER IMPEDANCE (2)
209	MT-404547J1	DISK (3) PART
210	MZ-404577J	DISK CLUTCH (2) PART
211	MZ-404538J	GEAR CAM SLIDER (3)

Ref. No.	Part No.	Description
212	MZ-387335J	GEAR EJECT
213	MZ-387333J1	GEAR FRONT LOADING
214	MZ-404995J1	GEAR MID PART
215	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
216	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
217	MZ-387332J	GEAR WORM WHEEL
218	MZ-409537J	GEAR WORM (2) PART

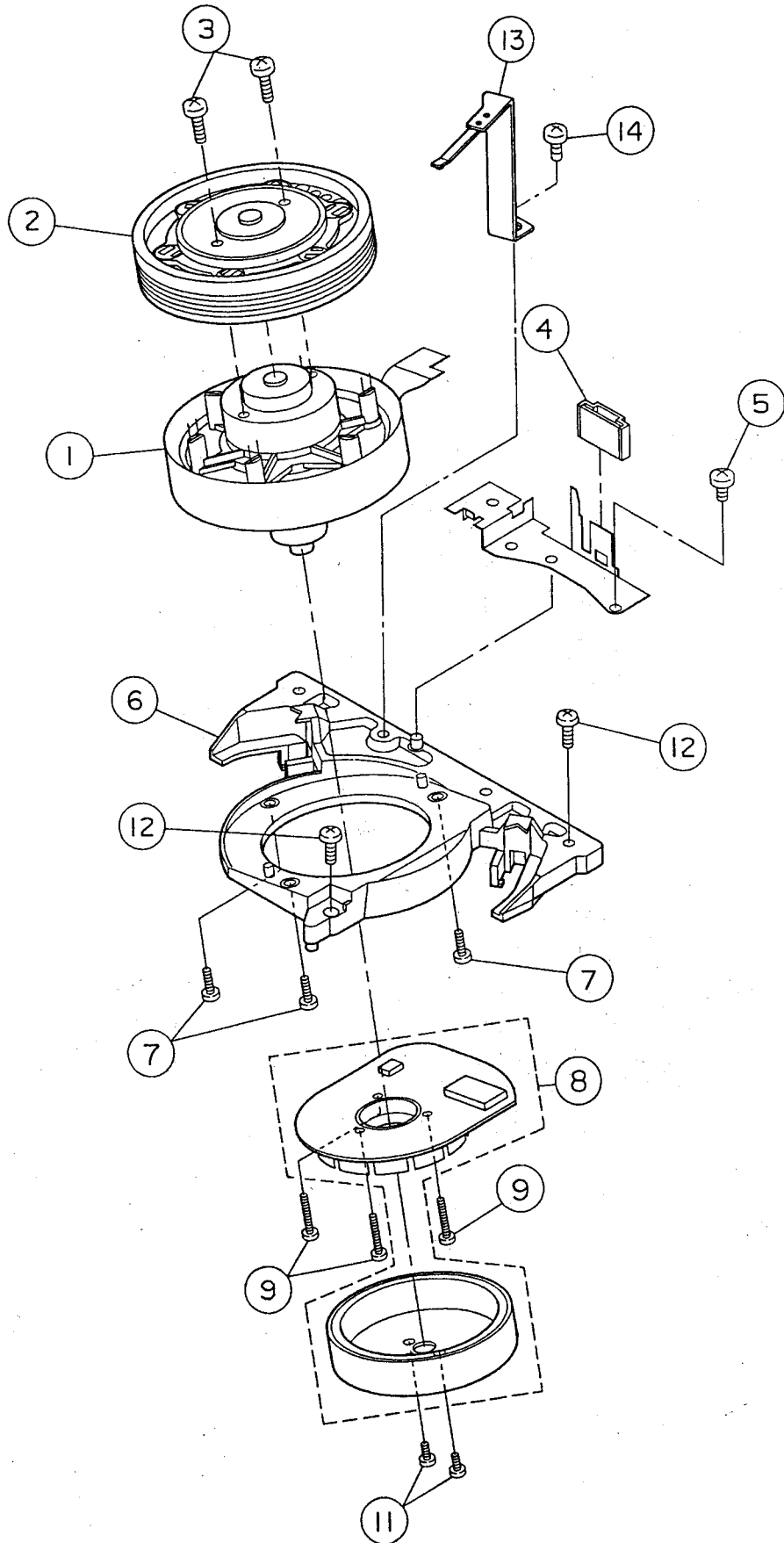
## 2. HEAD DRUM BLOCK

Ref. No.	Part No.	Description
1	BV-V1123A410E	LOWER DRUM BLK F1010EA-D
2	BV-V1123A420F	UPPER DRUM BLK F1010EA-D
3	ZS-321298	BID30X08STL CMT
4	SZ-409329J	HOLDER FPC (2)
5	ZS-358936	ST BID30X06STL CMT
6	MA-387474J3	BASE DRUM
7	ZS-563444	BID26X08STL CMT
8	BM-401296J1	MOTOR E20EL89 [DRUM MOTOR]
9	ZS-467796	PAN26X12STL CMT
11	ZS-379350	PAN30X06STL CMT
12	ZS-336714	ST BID30X12STL CMT
13	VT-401282J	EARTH BRUSH PART AG
14	ZS-409216J	ST PAN30X07STL CMT C080

### NOTE:

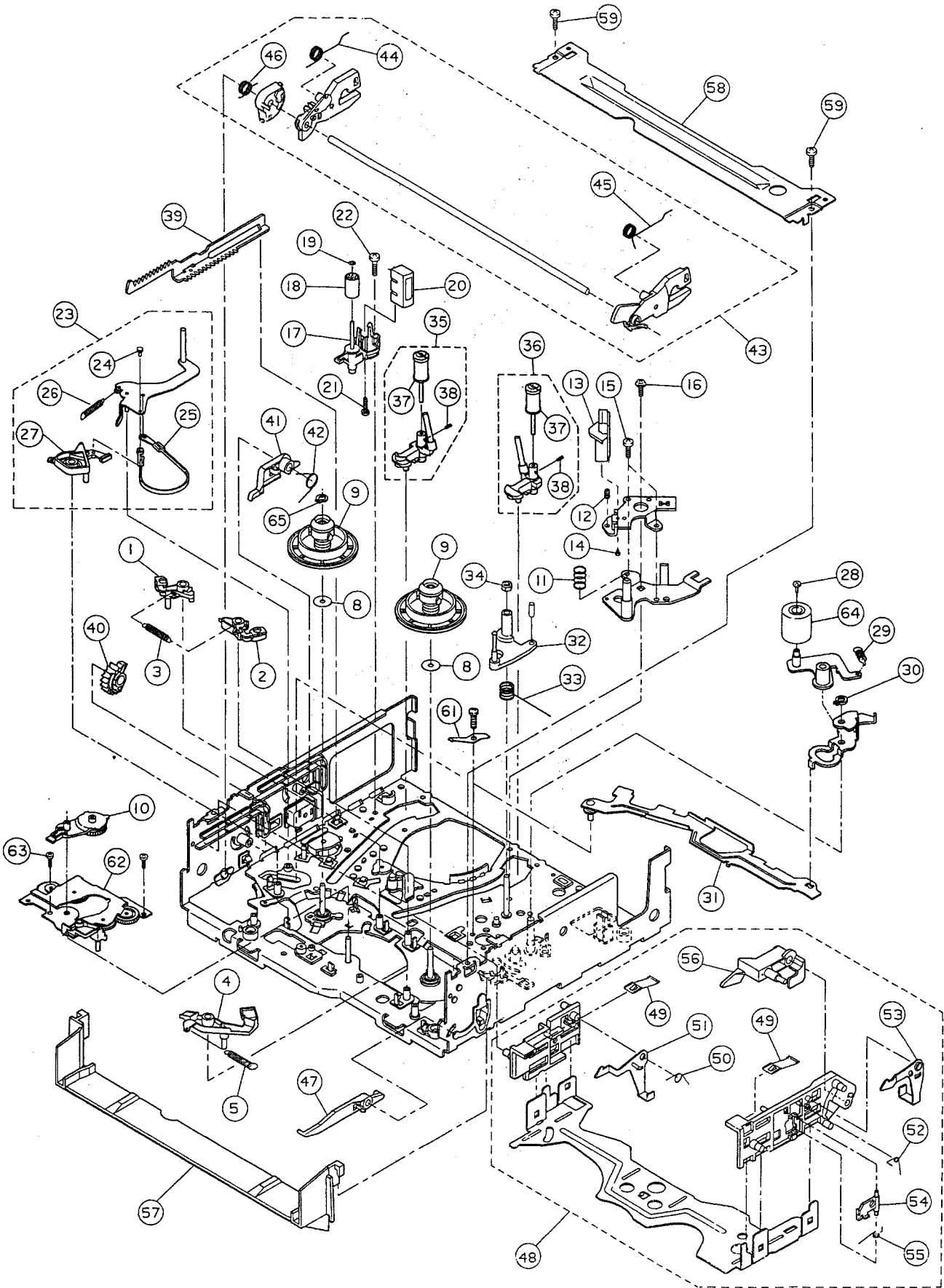
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

**HEAD DRUM BLOCK**



PARTS LIST

**MECHANISM BLOCK (1)**



PARTS LIST

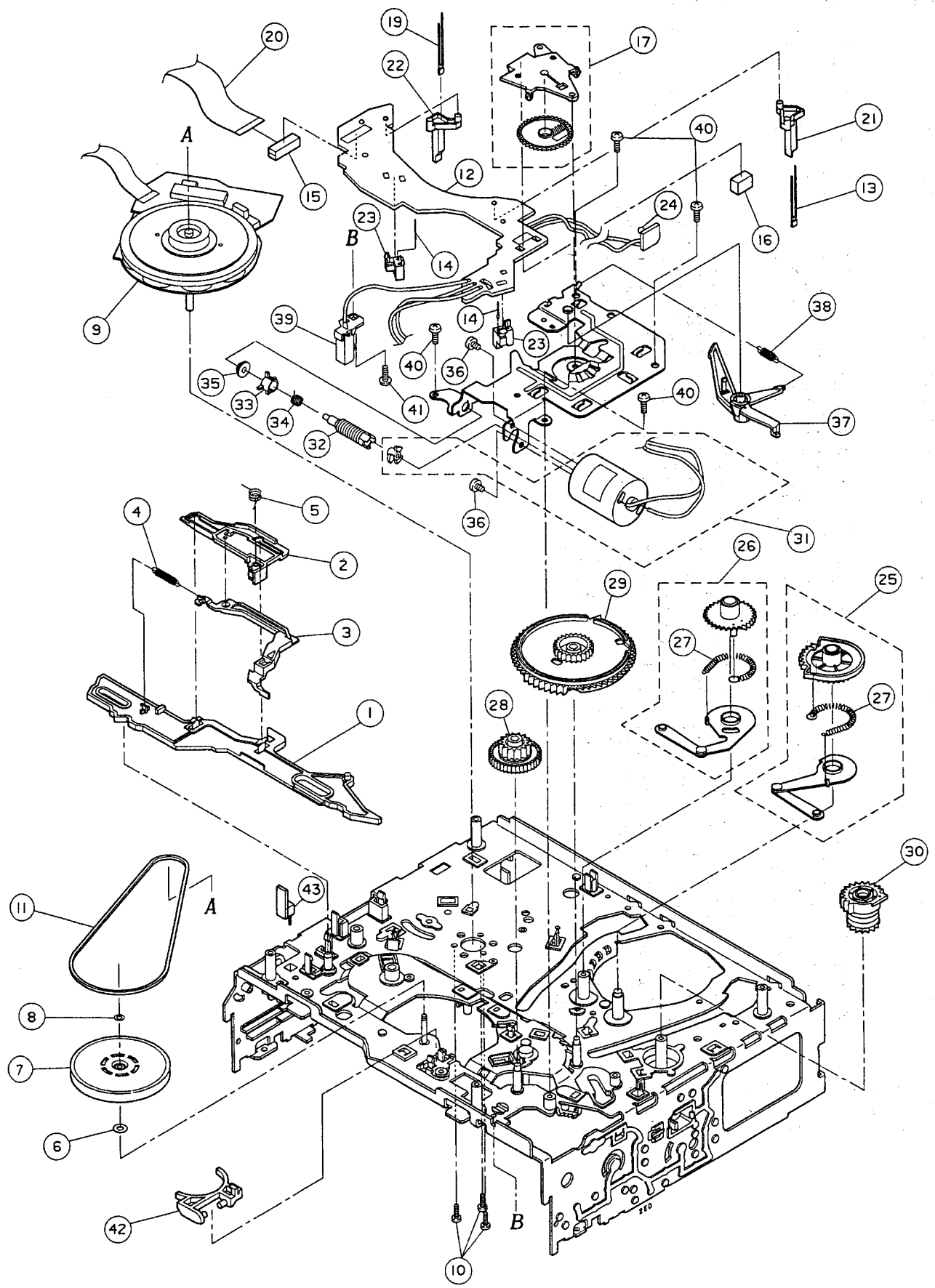
### 3. MECHANISM BLOCK (1)

Ref. No.	Part No.	Description
1	ML-387316J	MAIN BRAKE (S) PART
2	ML-387318J	MAIN BRAKE (T) PART
3	ZG-387320J	SP PULL MAIN BRAKE
4	ML-407119J	REVIEW BRAKE (3) PART
5	ZG-387323J	SP PULL REVIEW BRAKE
8	ZW-389814J	PW31X110X050PSL
9	MT-404547J1	DISK (3) PART
10	MI-404552J1	IDLER (2) PART
11	ZG-387438J1	SP PUSH A/C
12	ZS-410851J	PAN30X070STL CMT CP
13	HR-405340J	HEAD COMBO HVMZA1121A
14	ZS-404844J	PAN20X02STL BZN PS1
15	ZS-321298	BID30X08STL CMT
16	ZS-409216J	ST PAN30X07STL CMT C080
17	MZ-407375J1	HOLDER FE HEAD (2) PART
18	MR-407378J1	ROLLER IMPEDANCE (2)
19	ZW-409602J	SLIT W17X035X025PSL
20	HE-390013J	HEAD E HVFME0020A
22	ZS-336714	ST BID30X12STL CMT
23	BL-V1123A050B	TENSION ARM BLK F10101EOH-D
24	SZ-387263J4	HOLDER LEVER TENSION
25	ML-390768J4	TENSION BAND PART
26	ZG-395470J	SP PULL TENSION (2)
27	MZ-395471J3	TENSION BRAKE PART
28	ZS-464703	BID20X04STL CMT
29	ZG-404846J	SP PULL PINCH
30	ZW-332843	RETAINING RING GRIP 380STL ACP
31	ML-387431J1	SLIDER PINCH PART
32	ML-387277J4	ARM REVIEW PART
33	ZG-387282J	SP TORSION REVIEW
34	ZW-401776J	NUT REVIEW
35	BV-V1102A070A	LEADER S BLK 425EA
36	BV-V1102A080A	LEADER T BLK 425EA
37	VT-387394J1	GUIDE ROLLER D8 PART
38	ZS-374458	6SET20X030SCM PKR FP
39	ML-387428J	SLIDER FRONT LOADING
40	MZ-387335J	GEAR EJECT
41	ML-391745J3	ARM DAMPER
42	ZG-395567J	SP TORSION ARM DAMPER
43	BL-V1102A140A	ARM LOADING BLK 425EA
44	ZG-387417J	SP TORSION LOAD (S)
45	ZG-387418J	SP TORSION LOAD (T)
46	ZG-392831J1	SP TORSION JOINT (2)
47	ML-387350J1	ARM LID OPENER
48	BV-V1102A150A	CASSETTE LOAD BLK 425EA
49	ZG-387348J1	SP PLATE HOLDER
50	ZG-387421J	SP TORSION DAMPER (S)
51	ML-387345J	LEVER DAMPER (S)
52	ZG-388290J1	SP TORSION DAMPER (T)
53	ML-387346J1	LEVER DAMPER (T)
54	ML-387344J	LEVER LOCK RELEASE
55	ZG-387420J1	SP TORSION RELEASE
56	ML-387349J2	ARM SHUTTER
57	SE-395554J1	GUIDE FRONT (2)
58	MZ-406134J	PLATE UPPER (2)
59	ZS-358936	ST BID30X06STL CMT
61	ZG-392294J	SP PLATE EARTH
62	MZ-404995J1	GEAR MID PART
63	ZS-321194	ST PAN26X05STL CMT
64	MP-404852J	PINCH ROLLER (2) PART
65	ZW-336603	RETAINING RING GRIP 285SUP ACP
70	BB-V1130A020F	MECHA DECK BLK F1010EOH-D

**NOTE:**

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

**MECHANISM BLOCK (2)**



PARTS LIST

#### 4. MECHANISM BLOCK (2)

Ref. No.	Part No.	Description
1	ML-404567J1	SLIDER BRAKE (3) PART
2	ML-404944J	SLIDER TRIGGER (2)
3	ML-387402J1	LEVER TRIGGER
4	ZG-387468J	SP PULL SLIDER
5	ZG-387403J	SP TORSION COUPLING
6	ZW-389923J	PW26X060X050PSL
7	MZ-404577J	DISK CLUTCH (2) PART
8	ZW-387492J	SLIT W21X040X050PSL
9	BM-400682J3	MOTOR DFX-67B3VWB2 [CAPSTAN MOTOR]
10	ZS-365149	PT BID26X06STL CMT
11	MB-407117J	BELT CAPSTAN (3)
12	EA-404543J	PC (#) SENSOR (2) KFX
13	ED-390011J	D LED GL451 INFRARED [D1]
14	ET-403420J	DETECTOR SG-105LF [PH1][PH2]
15	EJ-387497J	SOCKET HOUSING 5062-30-10-13 [PS1]
16	EJ-381837J	SOCKET 174074-5 5P [P1]
17	ES-387465J	SW MODE SELECT MMS00070ZLBO [SW1]
19	ET-390009J	TR PHOTO PT493F [TR4]
20	EW-389313J	CORD FFC P1.25 L=120 13P [WP1]
21	MZ-387430J	HOLDER D-LED
22	MZ-387445J	HOLDER S SENSOR
23	MZ-404542J	HOLDER PHOTO SENSOR (2)
24	ET-361490	TR PHOTO PN268 [TR1]
25	MZ-V1102A090A	GEAR TOGGLE (S) BLK 425EA
26	MZ-V1102A100A	GEAR TOGGLE (T) BLK 425EA
27	ZG-387413J1	SP PULL TOGGLE
28	MZ-387332J	GEAR WORM WHEEL
29	MZ-404538J	GEAR CAM SLIDER (3)
30	MZ-387333J1	GEAR FRONT LOADING
31	BM-387503J	MOTOR PART [LOADING MOTOR]
32	MZ-409537J	GEAR WORM (2) PART
33	MR-391968J	PULLEY TRIGGER (2)
34	ZG-387443J	SP TRIGGER
35	MR-387406J	HOLDER THRUST WORM
36	ZS-425981	BID30X03STL CMT
37	BL-387458J2	CAPSTAN BRAKE PART
38	ZG-387502J	SP PULL CAPSTAN BRAKE
39	ES-373099	SW LEAF MTS10110MPC1
40	ZS-389950J	PT BID26X10STL CMT
41	ZS-358936	ST BID30X06STL CMT
42	ML-387311J2	ARM COUPLING
43	ES-416839J	SW MICRO MPU10240MMBO

#### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

#### 5. P.C. BOARD BLOCK

Ref. No.	Part No.	Description
1-A	BA-V1154Q600K	FR PC (#) MAIN BLK F1000EK-2VN/FR [EK]
1-B	BA-V1154Q600L	FR PC (#) MAIN BLK F1000EOG-2VD/FR [EOG]
2-A	BA-V1154A610A	PC PRE AMP BLK F1000EK-VN [EK]
2-B	BA-V1154A610B	PC PRE AMP BLK F1010EOH-D [EOG]
3-A	BA-V1154Q620K	FRPC OPERATION (1) BLK F1000EK2VN/ FR [EK]
3-B	BA-V1154Q620L	FRPC OPERATION1BLK F1000EOG2VD/ FR [EOG]
4-A	BA-V1154A630A	PC (#) OPERATION (2) BLK F1000EK-VN [EK]
4-B	BA-V1154A630B	PC (#) OPERATION (2) BLK F1000EOG-VD [EOG]
5-A	BA-V1154A500A	PC (#) POWER (1) BLK F1000EK-VN [EK]
5-B	BA-V1154A500B	PC (#) POWER (1) BLK F1000EOG-VD (V) [EOG]
6-A	BA-V1154A650A	PC (#) D-NICAM BLK F1000EK-VN [EK]
6-B	BA-V1154A660A	PC D-MULTI BLK F1010EOH-D [EOG]
7-A	BA-V1154A720A	PC (#) IN-OUT BLK F1000EK-VN [EK]
7-B	BA-V1154Q690E	FRPC (#) CANAL PLUS BLK F1000EOG2VD/FR [EOG]

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARDS.

- MAIN P.C BOARD
- VIDEO P.C BOARD

PC (#) OPERATION (2) BLK CONSISTS OF FOLLOWING P.C BOARDS.

- OPERATION (2) P.C BOARD
- FRONT P.C BOARD
- VR P.C BOARD

PC (#) POWER BLK CONSISTS OF FOLLOWING P.C BOARDS.

- POWER SUPPLY (1) P.C BOARD
- POWER SUPPLY (2) P.C BOARD

PC (#) IN-OUT BLK CONSISTS OF FOLLOWING P.C BOARDS.

- IN-OUT (A) P.C BOARD
- IN-OUT (B) P.C BOARD

PC (#) CANAL PLUS BLK CONSISTS OF FOLLOWING P.C BOARDS.

- CANAL PLUS (A) P.C BOARD
- CANAL PLUS (B) P.C BOARD

**6. MAIN P.C. BOARD**

Ref. No.	Part No.	Description
C110	*EC-391843J	C DOUBLE FYD0H223Z 5.5DC
D1	ED-307572	D SILICON H 1SS131 [EOG]
D2	ED-307572	D SILICON H 1SS131 [EOG]
D5	ED-307572	D SILICON H 1SS131 [EOG]
D6	ED-307572	D SILICON H 1SS131 [EOG]
D7	ED-307572	D SILICON H 1SS131 [EOG]
D8	ED-307572	D SILICON H 1SS131 [EOG]
D9	ED-307572	D SILICON H 1SS131 [EOG]
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-387765J	D ZENER H HZS9C1L
D13	ED-307572	D SILICON H 1SS131
D14	ED-408915J	D ZENER H HZS5A2
D16	ED-387919J	D ZENER H HZS6A1L
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D70	ED-388368J	D ZENER H HZS9B3L
D71	ED-307572	D SILICON H 1SS131
D101	ED-397233J	D ZENER H HZS5C3
D102	ED-397399J	D ZENER H HZS3C3
D108	ED-387783J	D ZENER H HZS6C3L
D110	ED-403743J	D ZENER H HZS6B3
D112	ED-391005J	D ZENER H HZS12B1
D200	ED-307572	D SILICON H 1SS131
D201	ED-388368J	D ZENER H HZS9B3L
D203	ED-397399J	D ZENER H HZS3C3 [EK]
D204	ED-307572	D SILICON H 1SS131
D205	ED-307572	D SILICON H 1SS131
D206	ED-307572	D SILICON H 1SS131
D207	ED-307572	D SILICON H 1SS131
D208	ED-307572	D SILICON H 1SS131
D209	ED-307572	D SILICON H 1SS131
D210	ED-389686J	D ZENER H HZS2C2
D211	ED-400166J	D ZENER H HZS3B2
D212	ED-307572	D SILICON H 1SS131
D213	ED-307572	D SILICON H 1SS131 [EK]
D214	ED-387919J	D ZENER H HZS6A1L [EK]
D300	ED-307572	D SILICON H 1SS131
D301	ED-307572	D SILICON H 1SS131
D302	ED-307572	D SILICON H 1SS131
D303	ED-307572	D SILICON H 1SS131
D304	ED-387919J	D ZENER H HZS6A1L
D305	ED-387919J	D ZENER H HZS6A1L
D401	ED-307572	D SILICON H 1SS131
D402	ED-307572	D SILICON H 1SS131
D403	ED-387763J	D ZENER H HZS7B3L
D404	ED-388368J	D ZENER H HZS9B3L
D405	ED-307572	D SILICON H 1SS131
D406	ED-307572	D SILICON H 1SS131
D407	ED-307572	D SILICON H 1SS131
D408	ED-307572	D SILICON H 1SS131
D409	ED-307572	D SILICON H 1SS131
D410	ED-307572	D SILICON H 1SS131
D411	ED-307572	D SILICON H 1SS131
D412	ED-307572	D SILICON H 1SS131
D413	ED-307572	D SILICON H 1SS131
D414	ED-307572	D SILICON H 1SS131
D415	ED-307572	D SILICON H 1SS131
D416	ED-511907	D SILICON 1N4002 100/1.0A
D417	ED-511907	D SILICON 1N4002 100/1.0A
D501	ED-307572	D SILICON H 1SS131
FL200	EO-408440J	COIL OSC 1 125-8020-41 70.0KHZ
FL300	EH-394984J	FILTER LC BP SFB41743
FR200	*ER-401039J	R FUSE V T05 ERD2FCV 1/4W 4R7J
FR401	*ER-400729J	R FUSE V T05 RF25SCVTP1/4WR47K
IB300	EH-378541J	COMP R RGL3X 473J
IB302	EH-378541J	COMP R RGL3X 473J
IC1	EI-390053J	IC LA7910 [EOG]

Ref. No.	Part No.	Description
	IC2	EI-389622J IC L5631
	IC200	EI-388360J IC BA7765AS
	IC300	EI-394983J IC BA7703K1
	IC301	EI-364896 IC BA6138
	IC401	EI-404505J1 IC MN675201A-XDZ JTASYP2
	IC402	EI-403233J IC LB1641
	IC403	EI-400756J IC NJM4558L-B
	IC404	EI-373981J1 IC BA10393N
	IC405	EI-373955 IC S-8053ALR
	IC406	EI-405224J IC ST24C02AB1/AAB
	IC501	EI-405722J IC UPD6450CX-515
	IC502	EI-403469J IC MM1068XS
	IF1-A	BV-408937J VIF UNIT JTX EK [EK]
	IF1-B	BV-408938J VIF UNIT JTX EOG [EOG]
	MD1-A	BV-403410J RF CONVERTER MDLK6B733A EK [EK]
	MD1-B	BV-403409J RF CONVERTER MDLK6D755A EO [EOG]
	L2	EO-351869 COIL FIX 1 LAP02 F05 820K [EOG]
	L200	EO-354600 COIL FIX 1 LAP02 F05 101K
	L201	EO-390717J COIL FIX 1 LHL06TB T05 103J
	L202	EO-351866 COIL FIX 1 LAP02 F05 330K
	L203	EO-354600 COIL FIX 1 LAP02 F05 101K
	L300	EO-354600 COIL FIX 1 LAP02 F05 101K
	L301	EO-354600 COIL FIX 1 LAP02 F05 101K
	L302	EO-354600 COIL FIX 1 LAP02 F05 101K
	L303	EO-354600 COIL FIX 1 LAP02 F05 101K
	L401	EO-381196J COIL FIX 1 EL0405SKI 470K
	L402	*EO-345881 COIL FIX 1 EL0606SKI 101J
	L403	EO-354600 COIL FIX 1 LAP02 F05 101K
	L404	EO-354600 COIL FIX 1 LAP02 F05 101K
	L405	EO-388087J COIL FIX 1 LF-5.0S F05 331K
	L406	EO-354600 COIL FIX 1 LAP02 F05 101K
	L501	EO-345876 COIL FIX 1 EL0606SKI 470J
	L502	EO-351866 COIL FIX 1 LAP02 F05 330K
	L503	EO-345881 COIL FIX 1 EL0606SKI 101J
	L504	EO-351866 COIL FIX 1 LAP02 F05 330K
	L505	EO-345881 COIL FIX 1 EL0606SKI 101J
	L506	EO-345881 COIL FIX 1 EL0606SKI 101J
	L507	EO-410089J COIL FIX 1 SPT0203SA T26 6R8J
	R449	*ER-403405J R OMF H S12 FS 1W R75J
	TR1	ET-353899 TR 2SA1317 S,T,U
	TR2	ET-397160J TR 2SC3330 R,S,T,U,V
	TR3	ET-353899 TR 2SA1317 S,T,U [EK]
	TR4	ET-356236 TR FET 2SK363 GR,BL [EOG]
	TR5	ET-397160J TR 2SC3330 R,S,T,U,V [EOG]
	TR6	ET-382952J TR DTC123ES
	TR7	ET-370310 TR DTC144TS [EOG]
	TR9	ET-414816J TR 2SC2668 Y T05
	TR10	ET-388338J TR 2SB1425 S,E
	TR11	*ET-405622J TR 2SD2061 E,F
	TR13	ET-397160J TR 2SC3330 R,S,T,U,V
	TR14	ET-397160J TR 2SC3330 R,S,T,U,V
	TR15	ET-353899 TR 2SA1317 S,T,U
	TR18	ET-388338J TR 2SB1425 S,E
	TR19	ET-354414 TR DTC144ES
	TR20	ET-394881J TR DTC114WS
	TR21	ET-354414 TR DTC144ES
	TR23	ET-397160J TR 2SC3330 R,S,T,U,V [EOG]
	TR24	ET-397160J TR 2SC3330 R,S,T,U,V
	TR70	*ET-366168 TR 2SD1292 Q,R
	TR103	ET-397160J TR 2SC3330 R,S,T,U,V
	TR104	ET-356336 TR DTA114ES
	TR200	ET-366168 TR 2SD1292 Q,R
	TR201	ET-397160J TR 2SC3330 R,S,T,U,V
	TR202	ET-397160J TR 2SC3330 R,S,T,U,V
	TR203	ET-397160J TR 2SC3330 R,S,T,U,V [EK]
	TR204	ET-354414 TR DTC144ES [EK]
	TR205	ET-360399 TR DTC114TS [EK]
	TR207	*ET-353899 TR 2SA1317 S,T,U
	TR208	ET-364040 TR UN421D

Ref. No.	Part No.	Description
TR209	ET-397160J	TR 2SC3330 R,S,T,U,V
TR210	ET-356336	TR DTA114ES
TR211	ET-397160J	TR 2SC3330 R,S,T,U,V
TR212	ET-397160J	TR 2SC3330 R,S,T,U,V
TR213	ET-354414	TR DTC144ES
TR214	ET-354414	TR DTC144ES
TR300	ET-397160J	TR 2SC3330 R,S,T,U,V
TR301	ET-353899	TR 2SA1317 S,T,U
TR302	ET-397160J	TR 2SC3330 R,S,T,U,V
TR303	ET-397160J	TR 2SC3330 R,S,T,U,V
TR304	ET-360399	TR DTC114TS
TR305	ET-360399	TR DTC114TS
TR306	ET-356336	TR DTA114ES
TR307	ET-353897	TR DTC114ES
TR308	ET-353897	TR DTC114ES
TR309	ET-363953	TR DTA114TS
TR312	ET-353897	TR DTC114ES
TR401	ET-354414	TR DTC144ES
TR402	ET-354414	TR DTC144ES
TR403	ET-397160J	TR 2SC3330 R,S,T,U,V
TR404	ET-354414	TR DTC144ES
TR405	ET-388338J	TR 2SB1425 S,E
TR407	ET-354414	TR DTC144ES
TR408	ET-373985	TR DTA144TS
TR409	ET-373985	TR DTA144TS
TR410	ET-373985	TR DTA144TS
TR411	ET-354414	TR DTC144ES
TR501	ET-356336	TR DTA114ES [EOG]
TR502	ET-356336	TR DTA114ES [EOG]
TR503	ET-397160J	TR 2SC3330 R,S,T,U,V
TR504	ET-354414	TR DTC144ES
TR505	ET-353899	TR 2SA1317 S,T,U
TR506	ET-397160J	TR 2SC3330 R,S,T,U,V [EOG]
TR507	ET-354414	TR DTC144ES [EOG]
TR508	ET-353899	TR 2SA1317 S,T,U
TR509	ET-353899	TR 2SA1317 S,T,U
TR510	ET-353899	TR 2SA1317 S,T,U
TU1-A	EE-387607J1	TV TUNER TERB1-008B EK [EK]
TU1-B	EE-387604J3	TV TUNER TERE1-007D EOG [EOG]
VC501	EC-412084J	C S-FIX H T05 TZ03R 5.2-30
VR200	EV-389477J	R S-FIX H T05EVNDXAA03 0.1W104
VR201	EV-389480J	R S-FIX H T05EVNDXAA03 0.1W332
VR300	EV-397066J	R S-FIX H T05EVNDXAA03 0.1W333
VR301	EV-389476J	R S-FIX H T05EVNDXAA03 0.1W103
VR302	EV-397066J	R S-FIX H T05EVNDXAA03 0.1W333
VR303	EV-389476J	R S-FIX H T05EVNDXAA03 0.1W103
VR304	EV-389476J	R S-FIX H T05EVNDXAA03 0.1W103
VR305	EV-389478J	R S-FIX H T05EVNDXAA03 0.1W153
VR306	EV-389478J	R S-FIX H T05EVNDXAA03 0.1W153
VR401	EV-397066J	R S-FIX H T05EVNDXAA03 0.1W333
X401	EI-414624J	OSC X'TAL APS-1002 8.000MHZ
X501	EI-416872J	OSC X'TAL APS1004A 17.734475MH
X502	EI-403467J	OSC CE CSB500F40 15.680KHZ

## 7. VIDEO P.C. BOARD

Ref. No.	Part No.	Description
D601	ED-360318	D SILICON H MA700
D602	ED-307572	D SILICON H 1SS131
D603	ED-307572	D SILICON H 1SS131
D604	ED-307572	D SILICON H 1SS131
D605	ED-307572	D SILICON H 1SS131
D606	ED-307572	D SILICON H 1SS131
D607	ED-307572	D SILICON H 1SS131
D608	ED-307572	D SILICON H 1SS131
D609	ED-307572	D SILICON H 1SS131
D610	ED-307572	D SILICON H 1SS131
D611	ED-307572	D SILICON H 1SS131
D701	ED-307572	D SILICON H 1SS131
D702	ED-307572	D SILICON H 1SS131
D703	ED-307572	D SILICON H 1SS131
D704	ED-307572	D SILICON H 1SS131
D790	ED-378530J	D ZENER H HZS6B2L
D801	ED-307572	D SILICON H 1SS131
D802	ED-307572	D SILICON H 1SS131
D881	ED-307572	D SILICON H 1SS131
D882	ED-307572	D SILICON H 1SS131
DL800	EH-416491J	DL EFDJLA13A
FL600	EH-402170J	FILTER LC LP SEL-5065
FL770	EH-394858J	FILTER LC LP MYV-2V2
FL800	EH-364045	FILTER LC FF-78P
FL870	EH-366894	FILTER CE SFE-4.16MB 4.16MHZ [EOG]
IC600	EI-396454J	IC AN3267K
IC700	EI-394951J	IC LB1215
IC701	EI-201940	IC NJM4558S
IC770	EI-394856J	IC LC8992
IC800	EI-394839J	IC LA7332
IC870	EI-366892	IC BA7025L [EOG]
IC880	EI-373981J1	IC BA10393N
L601	EO-345880	COIL FIX 1 EL0606SKI 820J
L602	EO-410091J	COIL FIX 1 SPT0203SA T26 100J
L603	EO-410094J	COIL FIX 1 SPT0203SA T26 180J
L605	EO-354600	COIL FIX 1 LAP02 F05 101K
L606	EO-354600	COIL FIX 1 LAP02 F05 101K
L607	EO-354600	COIL FIX 1 LAP02 F05 101K
L608	EO-410103J	COIL FIX 1 SPT0203SA T26 151J
L609	EO-351868	COIL FIX 1 LAP02 F05 470K
L701	EO-345881	COIL FIX 1 EL0606SKI 101J
L722	EO-410089J	COIL FIX 1 SPT0203SA T26 6R8J
L773	EO-345880	COIL FIX 1 EL0606SKI 820J
L774	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L801	EO-345880	COIL FIX 1 EL0606SKI 820J
L802	EO-360555	COIL FIX 1 LAP02 F05 180K [EOG]
L803	EO-388087J	COIL FIX 1 LF-5.0S F05 331K
L804	EO-381197J	COIL FIX 1 EL0405SKI 471K
L805	EO-393331J	COIL FIX 1 EL0405FRA T02 390K
L806	EO-353900	COIL FIX 1 LAP02 F05 150K
L807	EO-387799J	COIL FIX 1 EL0405SKI 180K
L808	EO-345880	COIL FIX 1 EL0606SKI 820J
L809	EO-403342J	COIL FIX 1 LAP02 F05 4R7K
L810	EO-345880	COIL FIX 1 EL0606SKI 820J
L811	EO-351868	COIL FIX 1 LAP02 F05 470K
L870	EO-478181	COIL FIX 1 FL09H 153J [EOG]
L871	EO-345880	COIL FIX 1 EL0606SKI 820J [EOG]
L881	EO-351869	COIL FIX 1 LAP02 F05 820K
TR601	ET-354414	TR DTC144ES
TR602	ET-354415	TR DTA144ES
TR603	ET-354414	TR DTC144ES
TR604	ET-397160J	TR 2SC3330 R,S,T,U,V
TR605	ET-354414	TR DTC144ES
TR606	ET-353897	TR DTC114ES
TR608	ET-354415	TR DTA144ES
TR609	ET-353899	TR 2SA1317 S,T,U
TR610	ET-397160J	TR 2SC3330 R,S,T,U,V
TR611	ET-397160J	TR 2SC3330 R,S,T,U,V
TR612	ET-354371	TR DTC124ES
TR613	ET-353899	TR 2SA1317 S,T,U
TR614	ET-353899	TR 2SA1317 S,T,U
TR615	ET-354414	TR DTC144ES
TR616	ET-354414	TR DTC144ES
TR617	ET-364040	TR UN421D



Ref. No.	Part No.	Description
TR701	ET-397160J	TR 2SC3330 R,S,T,U,V
TR702	ET-397160J	TR 2SC3330 R,S,T,U,V
TR703	ET-397160J	TR 2SC3330 R,S,T,U,V
TR704	ET-397160J	TR 2SC3330 R,S,T,U,V
TR705	ET-354414	TR DTC144ES
TR706	ET-397160J	TR 2SC3330 R,S,T,U,V
TR707	ET-397160J	TR 2SC3330 R,S,T,U,V
TR708	ET-397160J	TR 2SC3330 R,S,T,U,V
TR709	ET-397160J	TR 2SC3330 R,S,T,U,V
TR710	ET-353899	TR 2SA1317 S,T,U
TR711	ET-353899	TR 2SA1317 S,T,U
TR712	ET-354414	TR DTC144ES
TR713	ET-354415	TR DTA144ES
TR714	ET-370310	TR DTC144TS
TR771	ET-353899	TR 2SA1317 S,T,U
TR791	ET-356224	TR 2SA1286 G,H,J F05
TR800	ET-354414	TR DTC144ES
TR801	ET-354415	[EOG] TR DTA144ES
TR802	ET-397160J	TR 2SC3330 R,S,T,U,V
TR803	ET-397160J	TR 2SC3330 R,S,T,U,V
TR804	ET-397160J	TR 2SC3330 R,S,T,U,V
TR805	ET-397160J	TR 2SC3330 R,S,T,U,V
TR806	ET-397160J	TR 2SC3330 R,S,T,U,V
TR807	ET-397160J	TR 2SC3330 R,S,T,U,V
TR809	ET-353897	TR DTC114ES
TR810	ET-353897	TR DTC114ES
TR811	ET-356336	TR DTA114ES
TR812	ET-397160J	TR 2SC3330 R,S,T,U,V
TR814	ET-353899	TR 2SA1317 S,T,U
TR815	ET-397160J	TR 2SC3330 R,S,T,U,V
TR817	ET-388338J	TR 2SB1425 S,E
TR818	ET-353899	TR 2SA1317 S,T,U
TR871	ET-397160J	TR 2SC3330 R,S,T,U,V
TR872	ET-397160J	[EOG] TR 2SC3330 R,S,T,U,V
TR881	ET-397160J	TR 2SC3330 R,S,T,U,V
TR882	ET-397160J	TR 2SC3330 R,S,T,U,V
TR883	ET-353899	TR 2SA1317 S,T,U
TR884	ET-397160J	TR 2SC3330 R,S,T,U,V
VR600	EV-389489J	R S-FIX H T05EVNDXAA03 0.1W472
VR601	EV-389482J	R S-FIX H T05EVNDXAA03 0.1W682
VR602	EV-389480J	R S-FIX H T05EVNDXAA03 0.1W332
VR603	EV-389478J	R S-FIX H T05EVNDXAA03 0.1W153
VR604	EV-389478J	R S-FIX H T05EVNDXAA03 0.1W153
VR770	EV-389476J	R S-FIX H T05EVNDXAA03 0.1W103
X800	EI-381632J	OSC X'TAL 86686 4.433619MHZ

### 8. IN-OUT (A) P.C. BOARD (EK)

Ref. No.	Part No.	Description
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
PJ1	EJ-389323J	PIN J YKB11-0180 1P YELLOW
PJ2	EJ-389324J	PIN J YKB11-0178 1P RED
PJ3	EJ-389324J	PIN J YKB11-0178 1P RED
PJ4	EJ-389325J	PIN J YKB11-0179 1P WHITE
PJ5	EJ-389325J	PIN J YKB11-0179 1P WHITE
PJ8	EJ-389864J	SOCKET M1817 21P
PJ9	EJ-389864J	SOCKET M1817 21P
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-397160J	TR 2SC3330 R,S,T,U,V
1	SP-404383J1	PANEL REAR JACK EK (2)

### 9. IN-OUT (B) P.C. BOARD (EK)

Ref. No.	Part No.	Description
FR101	*ER-408963J	R FUSE V T05 RF25SCVTP1/4WR33K
IC101	EI-408959J	IC LA7220
IC102	EI-408959J	IC LA7220
IC103	EI-408959J	IC LA7220
IC104	EI-408961J	IC MM1031XS
IC105	EI-386468J	IC BA3308
IC106	EI-394861J	IC LVA521S-2
L102	EO-345881	COIL FIX 1 EL0606SKI 101J
L111	EO-345881	COIL FIX 1 EL0606SKI 101J
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-354415	TR DTA144ES
TR104	ET-354414	TR DTC144ES
TR105	ET-397160J	TR 2SC3330 R,S,T,U,V

### 10. CANAL PLUS (A) P.C. BOARD (EOG)

Ref. No.	Part No.	Description
D101	ED-388358J	D ZENER H HZS5C2
D103	ED-307572	D SILICON H 1SS131
D104	ED-307572	D SILICON H 1SS131
D105	ED-307572	D SILICON H 1SS131
D106	ED-404468J	D ZENER H HZS11C3 T26
IC101	EI-408959J	IC LA7220
IC102	EI-408959J	IC LA7220
IC103	EI-408959J	IC LA7220
IC104	EI-408959J	IC LA7220
IC105	EI-332259	IC TC4052BP
IC106	EI-408964J	IC LA7954
IC107	EI-408959J	IC LA7220
IC108	EI-408961J	IC MM1031XS
IC201	EI-386468J	IC BA3308
L101	EO-345880	COIL FIX 1 EL0606SKI 820J
L102	EO-345880	COIL FIX 1 EL0606SKI 820J
L103	EO-345880	COIL FIX 1 EL0606SKI 820J
L104	EO-345880	COIL FIX 1 EL0606SKI 820J
L105	EO-345880	COIL FIX 1 EL0606SKI 820J
TR61	ET-353899	TR 2SA1317 S,T,U
TR101	ET-397160J	TR 2SC3330 R,S,T,U,V
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-397160J	TR 2SC3330 R,S,T,U,V
TR104	ET-397160J	TR 2SC3330 R,S,T,U,V
TR105	ET-397160J	TR 2SC3330 R,S,T,U,V
TR106	ET-397160J	TR 2SC3330 R,S,T,U,V
TR110	ET-397160J	TR 2SC3330 R,S,T,U,V
TR111	ET-397160J	TR 2SC3330 R,S,T,U,V
TR112	ET-353899	TR 2SA1317 S,T,U
TR120	ET-397160J	TR 2SC3330 R,S,T,U,V
TR121	ET-397160J	TR 2SC3330 R,S,T,U,V
TR123	ET-354414	TR DTC144ES
TR124	ET-354414	TR DTC144ES
TR126	ET-397160J	TR 2SC3330 R,S,T,U,V
TR127	ET-397160J	TR 2SC3330 R,S,T,U,V
TR128	ET-373985	TR DTA144TS
TR129	ET-364065	TR DTA144WS
TR130	ET-354414	TR DTC144ES
TR131	ET-373985	TR DTA144TS
TR132	ET-354414	TR DTC144ES
TR133	ET-354414	TR DTC144ES
TR135	ET-394881J	TR DTC114WS
TR136	ET-373985	TR DTA144TS
TR139	ET-397160J	TR 2SC3330 R,S,T,U,V

### 11. CANAL PLUS (B) P.C. BOARD (EOG)

Ref. No.	Part No.	Description
D1	ED-401099J	D SCHOTTKY MA719 T26 40/0.5A
J1	EJ-389325J	PIN J YKB11-0179 1P WHITE
J2	EJ-389324J	PIN J YKB11-0178 1P RED
J3	EJ-389864J	SOCKET M1817 21P
J4	EJ-389915J	SOCKET M1817-A 21P
J5	EJ-389323J	PIN J YKB11-0180 1P YELLOW
J6	EJ-389325J	PIN J YKB11-0179 1P WHITE
J7	EJ-389324J	PIN J YKB11-0178 1P RED
1	SP-404384J1	PANEL REAR JACK EOG-V (2)

### 12. VIF UNIT (EOG)

Ref. No.	Part No.	Description
CF1	EH-730625J	FILTER CE SAF38.9MZ70Z
CF2	EH-368948	FILTER CE TPS5.5MW 5.5000MHZ
CF4	EH-732528J	FILTER CE SAW SAF33.4MC70Z
IC1	EI-729997J	IC LA7575
L1	EO-725824J	COIL TRAP 6F16185A1
L2	EO-725825J	COIL TRAP 6F16186A1
L4	EO-392817J	COIL FIX 1 EL0405SKI 1R2K
L6	EO-388160J	COIL FIX 1 EL0405SKI 1R8K
L7	EO-714614	COIL RF 6F16115B1
L8	EO-732656J	COIL OSC 6F16403B1
L9	EO-387781J	COIL FIX 1 EL0405SKI 120K
L10	EO-381196J	COIL FIX 1 EL0405SKI 470K
Q1	ET-725820J	TR CHIP 2SC2735J
Q2	ET-731437J	TR CHIP DTC114EK
Q3	ET-731437J	TR CHIP DTC114EK
Q6	ET-370819	TR.CHIP 2SC3052
VR1	EV-733235J	R S-FIX H VG068TLT 203
VR2	EV-733235J	R S-FIX H VG068TLT 203

### 13. VIF UNIT (EK)

Ref. No.	Part No.	Description
CF1	EH-714628	FILTER CE SAW SAF39.5MZ70Z
CF2	EH-373919	FILTER CE TPS6.0MB
CF3	EH-416920J	FILTER CE SFT6.0MA
CF4	EH-725827J	FILTER CE SAF32.9MDE70Z
IC1	EI-729997J	IC LA7575
IC2	EI-397123J	IC TA8703S
L3	EO-381187J	COIL FIX 1 EL0405SKI R68M
L4	EO-381188J	COIL FIX 1 EL0405SKI 1R0K
L5	EO-725954J	COIL SIF DET 6F16263A3
L7	EO-714614	COIL RF 6F16115B1
L8	EO-732656J	COIL OSC 6F16403B1
L9	EO-387781J	COIL FIX 1 EL0405SKI 120K
L10	EO-381196J	COIL FIX 1 EL0405SKI 470K
L11	EO-714610	COIL RF 6F16113B1
Q1	ET-725820J	TR CHIP 2SC2735J
Q5	ET-713614	TR CHIP 2SA1235 E,F
Q6	ET-370819	TR.CHIP 2SC3052
VR1	EV-733235J	R S-FIX H VG068TLT 203
VR3	EV-732502J	R S-FIX H RH0636C 103

### 14. PRE-AMP P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
D150	ED-307572	D SILICON H 1SS131
FL201	EO-408439J	COIL OSC 1 125-8019-31 70.0KHZ
IC1	EI-387586J	IC BA7244BS
IC2	EI-356457	IC BU4013B
IC101	EI-397285J	IC BA7740S
L1	EO-410100J	COIL FIX 1 SPT0203SA T26 560J
L2	EO-410088J	COIL FIX 1 SPT0203SA T26 5R6J
L3	EO-381195J	COIL FIX 1 EL0405SKI 331K
L4	EO-410090J	COIL FIX 1 SPT0203SA T26 8R2J
L5	EO-410094J	COIL FIX 1 SPT0203SA T26 180J
L6	EO-381193J	COIL FIX 1 EL0405SKI 271K
L7	EO-410102J	COIL FIX 1 SPT0203SA T26 820J
L8	EO-345881	COIL FIX 1 EL0606SKI 101J
L9	EO-410096J	COIL FIX 1 SPT0203SA T26 220J
L10	EO-345881	COIL FIX 1 EL0606SKI 101J
L11	EO-345881	COIL FIX 1 EL0606SKI 101J
L12	EO-410103J	COIL FIX 1 SPT0203SA T26 151J
L13	EO-410101J	COIL FIX 1 SPT0203SA T26 680J
L14	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L15	EO-388087J	COIL FIX 1 LF-5.0S F05 331K
L101	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L102	EO-403270J	COIL FIX 1 EL0405RA T05 101J
L150	EO-381189J	COIL FIX 1 EL0405SKI 100K
L151	EO-410093J	COIL FIX 1 SPT0203SA T26 150J
L201	EO-390716J	COIL FIX 1 LHL06TB T05 272J
PS1	EJ-389815J	SOCKET HOUSING 5062-30-10-15
TH1	EX-405691J	THERMISTOR NTH5D332KA
TR1	ET-354414	TR DTC144ES
TR2	ET-353899	TR 2SA1317 S,T,U
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR4	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-397160J	TR 2SC3330 R,S,T,U,V
TR6	ET-397160J	TR 2SC3330 R,S,T,U,V
TR7	ET-397160J	TR 2SC3330 R,S,T,U,V
TR8	ET-353897	TR DTC114ES
TR9	ET-364040	TR UN421D
TR10	ET-354414	TR DTC144ES
		[EOG]
TR11	ET-360399	TR DTC114TS
TR12	ET-354364	TR DTC143TS
		[EOG]
TR14	ET-397160J	TR 2SC3330 R,S,T,U,V
TR15	ET-397160J	TR 2SC3330 R,S,T,U,V
TR16	ET-353899	TR 2SA1317 S,T,U
TR17	ET-353899	TR 2SA1317 S,T,U
TR18	ET-360399	TR DTC114TS
TR19	ET-364040	TR UN421D
TR20	ET-364040	TR UN421D
TR21	ET-360399	TR DTC114TS
TR22	ET-396488J	TR DTC144EL T05
TR103	ET-354414	TR DTC144ES
TR150	ET-353899	TR 2SA1317 S,T,U
TR151	ET-353899	TR 2SA1317 S,T,U
TR152	ET-353899	TR 2SA1317 S,T,U
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
VR1	EV-403988J	R S-FIX V T05EVNDCAA03 0.1W102
VR2	EV-403919J	R S-FIX V KVSF639A 0.10W 681
WP1	EW-389317J	CORD FFC P1.25 L=180 15P

## 15. OPERATION (1) P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131 [EOG]
D7	ED-307572	D SILICON H 1SS131 [EOG]
D9	ED-307572	D SILICON H 1SS131 [EK]
D10	ED-307572	D SILICON H 1SS131 [EK]
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131 [EOG]
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D20	ED-307572	D SILICON H 1SS131
D21	ED-307572	D SILICON H 1SS131
FL1	EM-408445J	IND FL FV548G CHARACTER
IB1	EH-383119J	COMP R RGL4X 473J
IB2	EH-397361J	COMP R RGLD7X473J
IC1-A	EI-416979J	IC M38173M6-247FP JT2OPD1 [EK]
IC1-B	EI-416978J	IC M38173M6-246FP JT2OPP1 [EOG]
L1	EO-354600	COIL FIX 1 LAP02 F05 101K
PH1	ET-408988J	DETECTOR SBX1619-52
PS1	EJ-404372J	SOCKET HOUSING 5062-30-10-20
PS3	EJ-404364J	SOCKET HOUSING 5062-30-10-17
SW1	ES-409007J1	SW TACT HKW0606-01-500
SW2	ES-409007J1	SW TACT HKW0606-01-500
SW5	ES-409007J1	SW TACT HKW0606-01-500
SW6	ES-409007J1	SW TACT HKW0606-01-500
SW7	ES-409007J1	SW TACT HKW0606-01-500
SW8	ES-409007J1	SW TACT HKW0606-01-500
SW9	ES-409007J1	SW TACT HKW0606-01-500
SW10	ES-409007J1	SW TACT HKW0606-01-500
SW11	ES-409007J1	SW TACT HKW0606-01-500
SW12	ES-409007J1	SW TACT HKW0606-01-500
SW13	ES-409007J1	SW TACT HKW0606-01-500
SW14	ES-409007J1	SW TACT HKW0606-01-500
TR1	ET-354414	TR DTC144ES
TR2	ET-364060	TR DTC143ES
TR3	ET-408826J	TR DTC143EL T05
TR4	ET-408826J	TR DTC143EL T05
TR5	ET-408826J	TR DTC143EL T05
TR6	ET-408826J	TR DTC143EL T05
TR7	ET-408826J	TR DTC143EL T05
TR8	ET-364060	TR DTC143ES
WP1	EW-404366J	CORD FFC P1.25 L=380 20P
WP3	EW-404367J	CORD FFC P1.25 L=120 17P
X1	EI-368825M	OSC X'TAL C-002RX 32.768KHZ
X2	EI-405327J	OSC CE CST6.00MGW 6.000MHZ

## 16. OPERATION (2) P.C. BOARD

Ref. No.	Part No.	Description
D4	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-307572	D SILICON H 1SS131
D9	ED-307572	D SILICON H 1SS131 [EOG]
D12	ED-307572	D SILICON H 1SS131 [EK]
D13	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D21	ED-307572	D SILICON H 1SS131
D22	ED-307572	D SILICON H 1SS131
D23	ED-307572	D SILICON H 1SS131
D24	ED-307572	D SILICON H 1SS131
P5	EJ-404365J	SOCKET 6200-267-012-800 26P
SW1	ES-409007J1	SW TACT HKW0606-01-500
SW2	ES-409007J1	SW TACT HKW0606-01-500
SW3	ES-409007J1	SW TACT HKW0606-01-500
SW4	ES-409007J1	SW TACT HKW0606-01-500
SW5	ES-409007J1	SW TACT HKW0606-01-500
SW6	ES-409007J1	SW TACT HKW0606-01-500
SW7	ES-409007J1	SW TACT HKW0606-01-500
SW8	ES-409007J1	SW TACT HKW0606-01-500
SW9	ES-391710J	SW LEAF SPPB51 01-1 NO
SW10	ES-397339J	SW SLIDE ESD-170252
SW11	ES-397339J	SW SLIDE ESD-170252 [EOG]
SW12	ES-397339J	SW SLIDE ESD-170252
SW13	ES-397339J	SW SLIDE ESD-170252 [EK]
SW14	ES-397339J	SW SLIDE ESD-170252
TR2	ET-408827J	TR DTA114TL T05
TR4	ET-408827J	TR DTA114TL T05

## 17. FRONT P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
L1	EO-354600	COIL FIX 1 LAP02 F05 101K
PJ1	EJ-387623J	PIN J JPJ5022-01-040 1P
PJ2	EJ-396453J	PIN J JPJ5022-01-030 1P
PJ3	EJ-396452J	PIN J JPJ5022-01-020 1P
PJ4	EJ-410383J	PHONE J 2P H5J1406-01-010 3.5
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V

## 18. VR P.C. BOARD

Ref. No.	Part No.	Description
VR3	EV-401032J	VR SLIDE RS30B221J K203X2NO CL

## 19. POWER SUPPLY (1) P.C. BOARD

Ref. No.	Part No.	Description
C1	EC-410495J	C EC V CUT TWSS 682M 16.0DC
C2	EC-410496J	C EC V CUT TWSS 332M 35.0DC
C3	EC-410497J	C EC V CUT TWSS 222M 25.0DC
D1	*ED-511907	D SILICON 1N4002 100/1.0A
D2	*ED-511907	D SILICON 1N4002 100/1.0A
D3	*ED-511907	D SILICON 1N4002 100/1.0A
D4	*ED-511907	D SILICON 1N4002 100/1.0A
D5	*ED-412107J	D SILICON 1N4003 T26 200/1.0A
D6	*ED-412107J	D SILICON 1N4003 T26 200/1.0A
D7	ED-307572	D SILICON H 1SS131
D8	ED-412008J	D ZENER H HZS33-1L T26
D9	ED-408719J	D ZENER H HZS4C2
D10	ED-387762J	D ZENER H HZS36-3L
D11	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
F1	*EF-601964	FUSE SEMKO T 250V 1.60A
F2	*EF-601301	FUSE SEMKO T 250V 2.00A
F3	*EF-601964	FUSE SEMKO T 250V 1.60A
FR4	*ER-400605J	R FUSE V T05 ERD2FCV 1/4W15R0G
IC1	EI-400756J	IC NJM4558L-B
L1	*EO-419186J	COIL LF PLH11C1811R2P01B1 [EOG]
L2	*EO-339907	COIL LF FKOB160MH16 1000.0UH [EOG]
TR1	*ET-408841J	TR 2SB1565 E,F
TR2	*ET-408842J	TR 2SD2394 E,F
TR3	*ET-404498J	TR 2SB1306 Q,R T05
TR4	*ET-373391	TR DTC143ZS
TR5	ET-404498J	TR 2SB1306 Q,R T05
TR6	ET-373391	TR DTC143ZS
TR7	ET-408842J	TR 2SD2394 E,F

## 20. POWER SUPPLY (2) P.C. BOARD

Ref. No.	Part No.	Description
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-410368J	D ZENER H HZS15-3 T26
D19	*ED-394708J	D SILICON RBA402 200/4.0A
TR8	*ET-408842J	TR 2SD2394 E,F
TR9	ET-373025	TR 2SD1944 J1,J2,K
TR10	ET-408842J	TR 2SD2394 E,F

## 21. NICAM P.C. BOARD (EK)

Ref. No.	Part No.	Description
D1	ED-394936J	D VARACTOR 1SV111
D2	ED-307572	D SILICON H 1SS131
D3	ED-394936J	D VARACTOR 1SV111
D4	ED-394936J	D VARACTOR 1SV111
D5	ED-408721J	D ZENER H HZS2B3
D6	ED-307572	D SILICON H 1SS131
IC1	EI-408930J	IC TDA8732
IC2	EI-394937J	IC CF70124
IC3	EI-397560J	IC SAA7322GP
IC4	EI-393323J	IC M5218AL-771
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
L2	EO-384903J	COIL FIX 1 EL0405SKI 102K
L3	EO-384903J	COIL FIX 1 EL0405SKI 102K
L5	EO-345881	COIL FIX 1 EL0606SKI 101J
L6	EO-345881	COIL FIX 1 EL0606SKI 101J
L7	EO-345881	COIL FIX 1 EL0606SKI 101J
L8	EO-345881	COIL FIX 1 EL0606SKI 101J
L10	EO-345881	COIL FIX 1 EL0606SKI 101J
T1	EH-382829J	FILTER LC BP TH316BQM-2110QDAF
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR3	ET-397160J	TR 2SC3330 R,S,T,U,V
TR5	ET-370310	TR DTC144TS
TR6	ET-360399	TR DTC114TS
TR7	ET-360399	TR DTC114TS
TR8	ET-370310	TR DTC144TS
TR9	ET-373985	TR DTA144TS
TR11	ET-370310	TR DTC144TS
VC2	EC-412083J	C S-FIX H T05 TZ03T 3.0-11
X1	EI-408931J	OSC X'TAL HC-49/U 13104KHZ
X2	EI-408933J	OSC X'TAL HC-49/U 11648KHZ
X3	EI-403347J	OSC X'TAL NR-18-S 16.384MHZ

## 22. D-MULTI P.C. BOARD (EOG)

Ref. No.	Part No.	Description
D1	ED-364032	D ZENER H HZS10B2J
FL1	EH-394947J	FILTER CE SFT5.74MA
FL2	EH-394948J	FILTER CE SFT5.5MA
FR22	*ER-331619	R FUSE H S10 ERD2FC 1/4W 39R0G
IC1	EI-394949J	IC IR3P72
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
T1	EO-396464J	COIL DET 1 134-5177
T2	EO-394950J	COIL DET 1 134-5176
VR1	EV-396023J	R S-FIX H T05EVNDXAA03 0.1W222
VR2	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223
VR3	EV-397570J	R S-FIX H T05 RH0638C 0.1W 105
VR4	EV-396024J	R S-FIX H T05EVNDXAA03 0.1W474
VR5	EV-389477J	R S-FIX H T05EVNDXAA03 0.1W104
VR6	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223
VR7	EV-389479J	R S-FIX H T05EVNDXAA03 0.1W223

## 23. VPST/PDC P.C. BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D101	ED-307572	D SILICON H 1SS131
D201	ED-307572	D SILICON H 1SS131
FL101	EH-394684J	FILTER EMI ZBF503D-00TA T05
FL102	EH-394684J	FILTER EMI ZBF503D-00TA T05 [EOG]
IB101	EH-383056J	COMP R RGL4X 103J
IB102	EH-386637J	COMP R RGL8X 103J
IC101-A	EI-408432J3	IC UPD75218CW-025 JXVPT4 [EOG]
IC101-B	EI-410521J3	IC UPD75218CW-029 JXPDC4 [EK]
IC102	EI-410265J	IC ST24C04B1
IC103	EI-405224J	IC ST24C02AB1/AAB
IC104	EI-419092J	IC MV1815-2ABA
IC105	EI-410125J	IC V53C464AP-80
IC106	EI-401050J	IC LVA523SA2
IC107	EI-394680J	IC AN3171K
IC108	EI-387019J	IC MC1377P
IC301	EI-385958J	IC SAA4700 [EOG]
L1	EO-345865	COIL FIX 1 EL0606SKI 100J
L101	EO-345865	COIL FIX 1 EL0606SKI 100J
L102	EO-345865	COIL FIX 1 EL0606SKI 100J
L103	EO-345881	COIL FIX 1 EL0606SKI 101J [EOG]
L121	EO-345865	COIL FIX 1 EL0606SKI 100J
L151	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L152	EO-410104J	COIL FIX 1 SPT0203SA T26 181J
L153	EO-345880	COIL FIX 1 EL0606SKI 820J
L154	EO-410099J	COIL FIX 1 SPT0203SA T26 470J
L155	EO-345865	COIL FIX 1 EL0606SKI 100J
L201	EO-345865	COIL FIX 1 EL0606SKI 100J
L202	EO-345865	COIL FIX 1 EL0606SKI 100J
L203	EO-345875	COIL FIX 1 EL0606SKI 390J
L204	EO-345873	COIL FIX 1 EL0606SKI 270J
L206	EO-345871	COIL FIX 1 EL0606SKI 180J
L207	EO-345874	COIL FIX 1 EL0606SKI 330J
L208	EO-345874	COIL FIX 1 EL0606SKI 330J
L251	EO-345865	COIL FIX 1 EL0606SKI 100J
L301	EO-345865	COIL FIX 1 EL0606SKI 100J [EOG]
TR1	ET-397160J	TR 2SC3330 R,S,T,U,V
TR2	ET-388338J	TR 2SB1425 S,E
TR3	ET-354414	TR DTC144ES
TR101	ET-354415	TR DTA144ES
TR102	ET-397160J	TR 2SC3330 R,S,T,U,V
TR103	ET-364060	TR DTC143ES [EOG]
TR104	ET-354414	TR DTC144ES [EOG]
TR105	ET-388338J	TR 2SB1425 S,E [EOG]
TR151	ET-397160J	TR 2SC3330 R,S,T,U,V
TR152	ET-353899	TR 2SA1317 S,T,U
TR153	ET-353899	TR 2SA1317 S,T,U
TR154	ET-397160J	TR 2SC3330 R,S,T,U,V
TR155	ET-397160J	TR 2SC3330 R,S,T,U,V
TR201	ET-397160J	TR 2SC3330 R,S,T,U,V
TR202	ET-397160J	TR 2SC3330 R,S,T,U,V
TR203	ET-397160J	TR 2SC3330 R,S,T,U,V
TR204	ET-353899	TR 2SA1317 S,T,U
TR208	ET-353899	TR 2SA1317 S,T,U
TR251	ET-397160J	TR 2SC3330 R,S,T,U,V
TR252	ET-353899	TR 2SA1317 S,T,U
TR253	ET-353899	TR 2SA1317 S,T,U
X101	EI-367882J1	OSC CE FCR4.19MC3 4.190MHZ
X102	EI-408433J	OSC X'TAL HC-43/U 27750KHZ
X103	EI-394673J	OSC X'TAL HC-49/U 8867.238KHZ

## 24. JOG SHUTTLE P.C. BOARD

Ref. No.	Part No.	Description
SW3	ES-409005J	SW ROTARY ENCODER SRGPPJ-1

## 25. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1	SP-409486J	COVER UPPER (JT)
2	ZS-365702	PLX BID30X10STL BNI
3	ZS-361507	DT BID30X06STL BNI
4	SA-395476J	FOOT FRONT
5	ZS-362378	PLX BID30X10STL CMT
6	ZS-358936	ST BID30X06STL CMT
7-A	*BT-408920J	TRANS POW V1154 EA [EK]
7-B	*BT-408921J	TRANS POW V1154 EOG [EOG]
8	ZS-373962	PLX BID40X10STL CMT
9-A	*EW-414845E1	AC CORD 200 *V1164 WITH TUBE B [EK]
9-B	*EW-404002M	AC CORD 200 SE-1 WITH TUBE E [EOG]
10-A	BD-409401J1	PANEL FRONT E1 PART [EK]
10-B	BD-417929J	PANEL FRONT G3 PART [EOG]
11-A	SE-409419J	MASK CASSETTE (D)-E3 [EK]
11-B	SE-418101J	MASK CASSETTE (D)-G6 [EOG]
12	ZG-395386J	SP MASK (2)
13	SZ-409420J	STOPPER MASK (3)
14	SZ-409014J	DAMPER 3F96-F
15-A	SP-409433J	DOOR (A) F1000 E PART [EK]
15-B	SP-417931J	DOOR (A) F1000 G2 PART [EOG]
16	SZ-409447J1	GEAR DAMPER
17	EW-409012J	CORD FFC P1.00 L=100 26P
18-A	SP-409456J4	DOOR (C) E2 PART [EK]
18-B	SP-417933J1	DOOR (C) G3 PART [EOG]
19	ZS-409503J	BT BID20X08STL BZN
20	SK-395423J	KNOB VOL (1)
21-A	SK-409478J	KNOB SHUTTLE [EK]
21-B	SK-417935J	KNOB SHUTTLE (1) [EOG]
22	SZ-408436J	RING C S-19
23-A	SK-409479J	KNOB JOG [EK]
23-B	SK-417937J	KNOB JOG (1) [EOG]
24	SZ-408435J	COMPRESSION RING 10193
25	SZ-409480J	STOPPER DOOR
29	SZ-395478J	COVER AC CORD
30	ZS-357946	PLX PAN30X10STL CMT C080

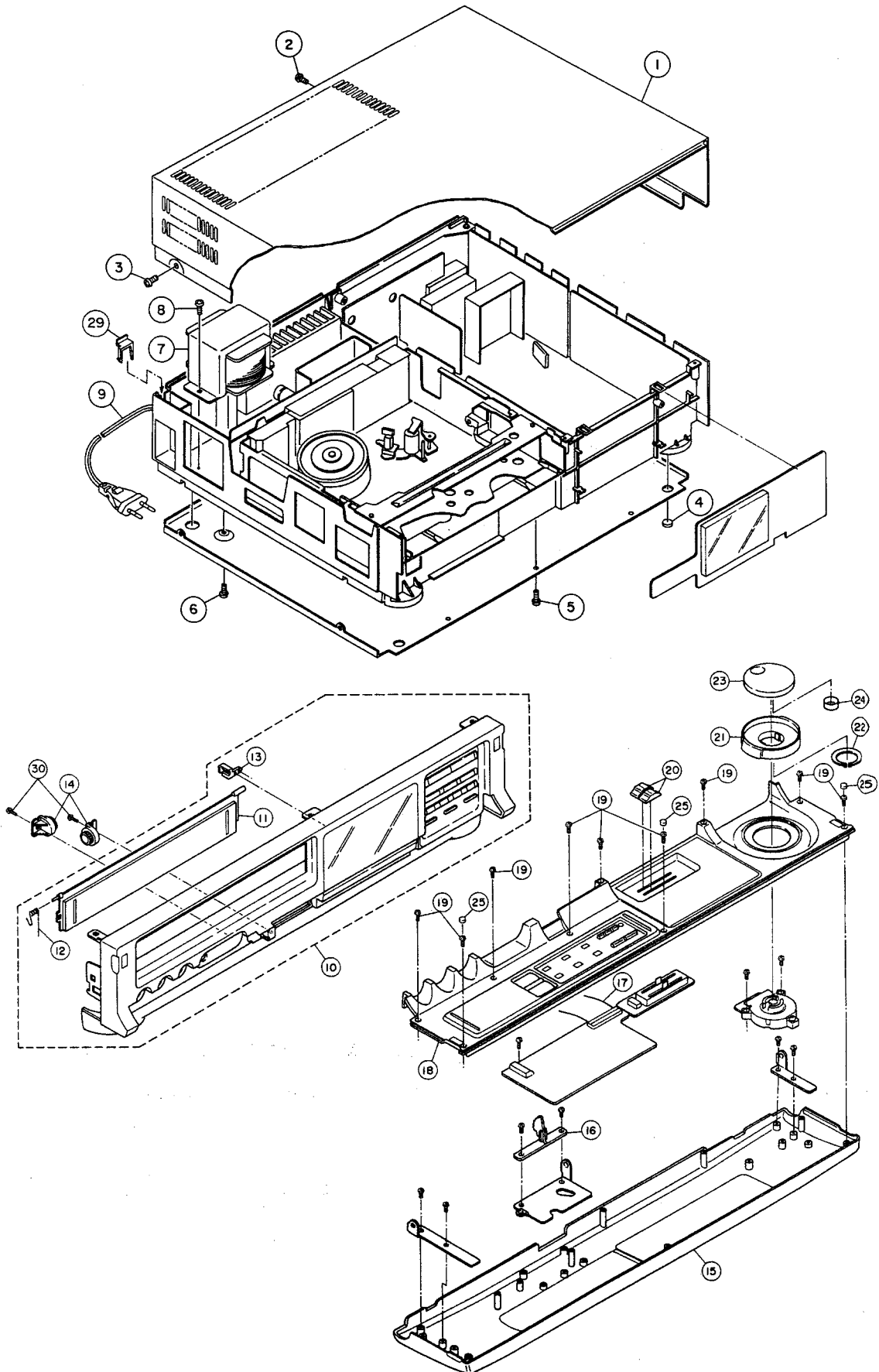
### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

## 26. ACCESSORY

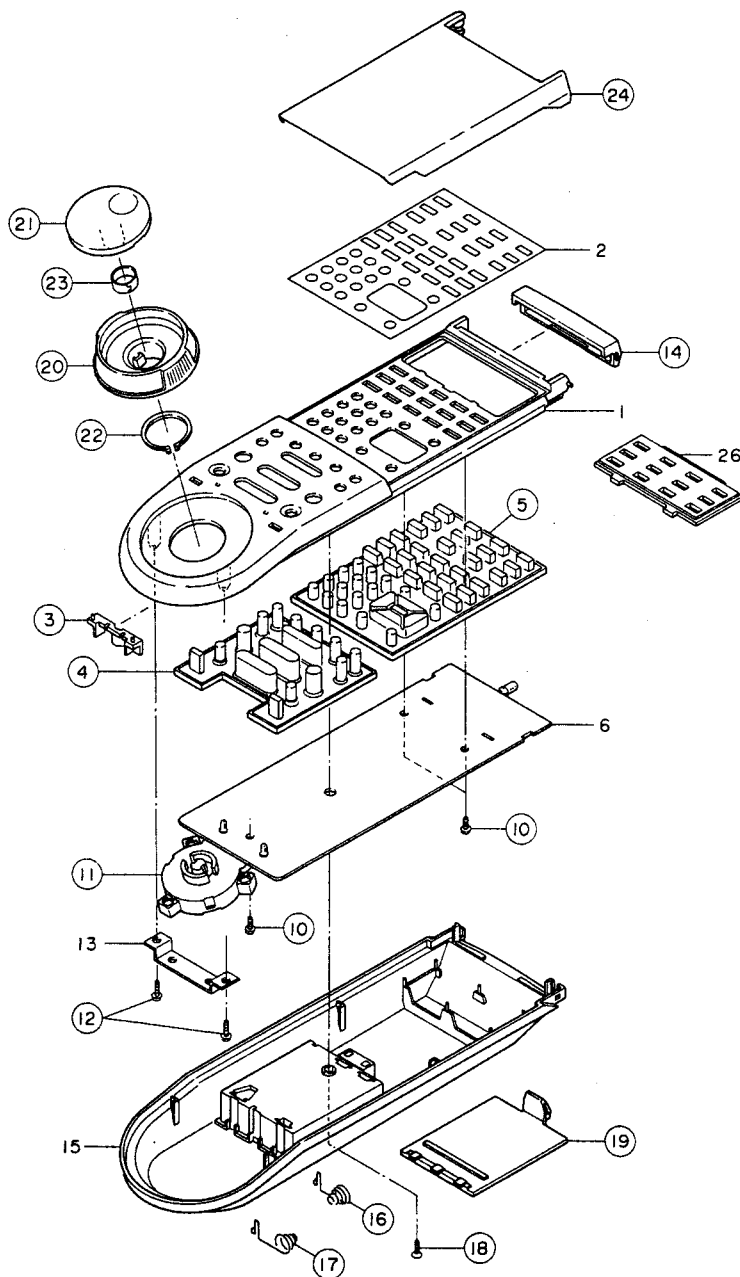
Ref. No.	Part No.	Description
1	EW-348414	CORD PAL
2-A	AV-B1040A010G	REMOCON BLK RC-V1001E [EK]
2-B	AV-B1040A010H	REMOCON BLK RC-V1001G [EOG]

**FINAL ASSEMBLY BLOCK**



PARTS LIST

**REMOCON RC-V1001E/G**



**27. REMOCON RC-V1001E/G**

Ref. No.	Part No.	Description
3	SE-407612J	LENS (V)
4	MB-412384J	KEY RUBBER (V1)-2
5	MB-407622J1	KEY RUBBER (V2)-A
10	ZS-374389	PT BID20X06STL BNI
11	ES-408428J	SW ROTARY ENCODER SRGPPJ
12	ZS-336614	PT PAN26X08STL CMT
14	SE-407625J	FILTER (V)
16	ZG-407614J1	TERMINAL BATTERY (V3)
17	ZG-407615J1	TERMINAL BATTERY (V4)
18	ZS-409324J	PT CTS26X08STL BNI
19	SC-407627J1	COVER BATTERY (V)
20	SK-407713J	KNOB RING-R
21	SK-407708J	KNOB JOG
22	SZ-408436J	RING C S-19
23	SZ-408435J	COMPRESSION RING 10193
24-A	SP-407635J2	DOOR PANEL (V)-1001E
24-B	SP-407634J2	DOOR PANEL (V)-1001G

**28. REMOCON P.C. BOARD RC-V1001**

Ref. No.	Part No.	Description
D1	ED-403450J	D LED SE303ARF-C INFRARED
D2	ED-397391J	D LED BR3668S RED
D3	ED-397391J	D LED BR3668S RED
IC1	EI-408449J	IC UPD75004GB-771 JXVPTR1 QF
IC2	EI-400672J	IC S-8052ALB-LE
TR1	ET-413009J	TR CHIP 2SC2884-Y TE12R T12E
X1	EI-408450J	OSC CE CST2.45MGW 2.450MHZ
1	ZG-407616J	TERMINAL BATTERY (V1)
2	ZG-407617J	TERMINAL BATTERY (V2)

# INDEX

Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.
AVB1040A010G	26-2-A	ED307572	6-D401	ED307572	16-D24	EH378541J	6-IB302
AVB1040A010H	26-2-B	ED307572	6-D402	ED307572	17-D1	EH382829J	21-T1
BAV1154A500A	5-5-A	ED307572	6-D405	ED307572	17-D2	EH383056J	23-IB101
BAV1154A500B	5-5-B	ED307572	6-D406	ED307572	19-D7	EH383119J	15-IB1
BAV1154A610A	5-2-A	ED307572	6-D407	ED307572	19-D11	EH386637J	23-IB102
BAV1154A610B	5-2-B	ED307572	6-D408	ED307572	19-D13	EH394684J	23-FL101
BAV1154A630A	5-4-A	ED307572	6-D409	ED307572	19-D14	EH394684J	23-FL102
BAV1154A630B	5-4-B	ED307572	6-D410	ED307572	19-D15	EH394858J	7-FL770
BAV1154A650A	5-6-A	ED307572	6-D411	ED307572	20-D16	EH394947J	22-FL1
BAV1154A660A	5-6-B	ED307572	6-D412	ED307572	20-D17	EH394948J	22-FL2
BAV1154A720A	5-7-A	ED307572	6-D413	ED307572	21-D2	EH394984J	6-FL300
BAV1154Q600K	5-1-A	ED307572	6-D414	ED307572	21-D6	EH397361J	15-IB2
BAV1154Q600L	5-1-B	ED307572	6-D415	ED307572	23-D1	EH402170J	7-FL600
BAV1154Q620K	5-3-A	ED307572	6-D501	ED307572	23-D101	EH416491J	7-DL800
BAV1154Q620L	5-3-B	ED307572	7-D602	ED307572	23-D201	EH416920J	13-CF3
BAV1154Q690E	5-7-B	ED307572	7-D603	ED360318	7-D601	EH714628	13-CF1
BBV1130A020F	3-70	ED307572	7-D604	ED364032	22-D1	EH725827J	13-CF4
BD409401J1	25-10-A	ED307572	7-D605	ED378530J	7-D790	EH730625J	12-CF1
BD417929J	25-10-B	ED307572	7-D606	ED387762J	19-D10	EH732528J	12-CF4
BLV1102A140A	3-43	ED307572	7-D607	ED387763J	6-D403	EI201940	7-IC701
BLV1123A050B	3-23	ED307572	7-D608	ED387765J	6-D12	EI332259	10-IC105
BL387458J2	4-37	ED307572	7-D609	ED387783J	6-D108	EI356457	14-IC2
BM387503J	4-31	ED307572	7-D610	ED387919J	6-D16	EI364896	6-IC301
BM400682J3	4-9	ED307572	7-D611	ED387919J	6-D214	EI366892	7-IC870
BM401296J1	2-8	ED307572	7-D701	ED387919J	6-D304	EI367882J1	23-X101
BT408920J	25-7-A	ED307572	7-D702	ED387919J	6-D305	EI368825M	15-X1
BT408921J	25-7-B	ED307572	7-D703	ED388356J	10-D101	EI373955	6-IC405
BVV1102A070A	3-35	ED307572	7-D704	ED388368J	6-D70	EI373981J1	6-IC404
BVV1102A080A	3-36	ED307572	7-D801	ED388368J	6-D201	EI373981J1	7-IC880
BVV1102A150A	3-48	ED307572	7-D802	ED388368J	6-D404	EI381632J	7-X800
BVV1123A410E	2-1	ED307572	7-D881	ED389686J	6-D210	EI385958J	23-IC301
BVV1123A420F	2-2	ED307572	7-D882	ED390011J	4-13	EI386468J	9-IC105
BV403409J	6-MD1-B	ED307572	10-D103	ED391005J	6-D112	EI386468J	10-IC201
BV403410J	6-MD1-A	ED307572	10-D104	ED394708J	20-D19	EI387019J	23-IC108
BV408937J	6-IF1-A	ED307572	10-D105	ED394936J	21-D1	EI387586J	14-IC1
BV408938J	6-IF1-B	ED307572	14-D1	ED394936J	21-D3	EI388360J	6-IC200
EA404543J	4-12	ED307572	14-D3	ED394936J	21-D4	EI389622J	6-IC2
EC391843J	6-C110	ED307572	14-D4	ED397233J	6-D101	EI390053J	6-IC1
EC410495J	19-C1	ED307572	14-D5	ED397391J	28-D2	EI393323J	21-IC4
EC410496J	19-C2	ED307572	14-D150	ED397391J	28-D3	EI394673J	23-X103
EC410497J	19-C3	ED307572	15-D1	ED397399J	6-D102	EI394680J	23-IC107
EC412083J	21-VC2	ED307572	15-D3	ED397399J	6-D203	EI394839J	7-IC800
EC412084J	6-VC501	ED307572	15-D5	ED400166J	6-D211	EI394856J	7-IC770
ED307572	6-D1	ED307572	15-D6	ED401099J	11-D1	EI394861J	9-IC106
ED307572	6-D2	ED307572	15-D7	ED403450J	28-D1	EI394937J	21-IC2
ED307572	6-D5	ED307572	15-D9	ED403743J	6-D110	EI394949J	22-IC1
ED307572	6-D6	ED307572	15-D10	ED404468J	10-D106	EI394951J	7-IC700
ED307572	6-D7	ED307572	15-D12	ED408719J	19-D9	EI394983J	6-IC300
ED307572	6-D8	ED307572	15-D13	ED408721J	21-D5	EI396454J	7-IC600
ED307572	6-D9	ED307572	15-D14	ED408915J	6-D14	EI397123J	13-IC2
ED307572	6-D10	ED307572	15-D16	ED410368J	20-D18	EI397285J	14-IC101
ED307572	6-D11	ED307572	15-D17	ED412008J	19-D8	EI397560J	21-IC3
ED307572	6-D13	ED307572	15-D18	ED412107J	19-D5	EI400672J	28-IC2
ED307572	6-D17	ED307572	15-D19	ED412107J	19-D6	EI400756J	6-IC403
ED307572	6-D18	ED307572	15-D20	ED511907	6-D416	EI400756J	19-IC1
ED307572	6-D19	ED307572	15-D21	ED511907	6-D417	EI401050J	23-IC106
ED307572	6-D71	ED307572	16-D4	ED511907	19-D1	EI403233J	6-IC402
ED307572	6-D200	ED307572	16-D6	ED511907	19-D2	EI403347J	21-X3
ED307572	6-D204	ED307572	16-D7	ED511907	19-D3	EI403467J	6-X502
ED307572	6-D205	ED307572	16-D9	ED511907	19-D4	EI403469J	6-IC502
ED307572	6-D206	ED307572	16-D12	EE387604J3	6-TU1-B	EI404505J1	6-IC401
ED307572	6-D207	ED307572	16-D13	EE387607J1	6-TU1-A	EI405224J	6-IC406
ED307572	6-D208	ED307572	16-D15	EF601301	19-F2	EI405224J	23-IC103
ED307572	6-D209	ED307572	16-D16	EF601964	19-F1	EI405327J	15-X2
ED307572	6-D212	ED307572	16-D17	EF601964	19-F3	EI405722J	6-IC501
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ED307572	6-D301	ED307572	16-D21	EH368948	12-CF2	EI408449J	28-IC1
ED307572	6-D302	ED307572	16-D22	EH373919	13-CF2	EI408450J	28-X1
ED307572	6-D303	ED307572	16-D23	EH378541J	6-IB300	EI408930J	21-IC1



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EI408959J	10-IC101	EO345880	10-L105	EO403270J	14-L102	ET353897	6-TR312
EI408959J	10-IC102	EO345880	23-L153	EO403342J	7-L809	ET353897	7-TR606
EI408959J	10-IC103	EO345881	6-L402	EO408439J	14-FL201	ET353897	7-TR809
EI408959J	10-IC104	EO345881	6-L503	EO408440J	6-FL200	ET353897	7-TR810
EI408959J	10-IC107	EO345881	6-L505	EO410088J	14-L2	ET353897	14-TR8
EI408961J	9-IC104	EO345881	6-L506	EO410089J	6-L507	ET353899	6-TR1
EI408961J	10-IC108	EO345881	7-L701	EO410089J	7-L772	ET353899	6-TR3
EI408964J	10-IC106	EO345881	8-L1	EO410090J	14-L4	ET353899	6-TR15
EI410125J	23-IC105	EO345881	9-L102	EO410091J	7-L602	ET353899	6-TR207
EI410265J	23-IC102	EO345881	9-L111	EO410093J	14-L151	ET353899	6-TR301
EI410521J3	23-IC101-B	EO345881	14-L8	EO410094J	7-L603	ET353899	6-TR505
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# AKAI KUNDENDIENST

*Nur kompetenter Partner*

Beiblatt für  
Akai Service Manual VS-F 1000 EOG-2VD  
(VS-F 1000 MK 2)

## **Betrifft : Falsche Ersatzteil - Nr. für Hyperband TUNER**

Auf Seite 11 wurde unter der Bezeichnung TU 1-B eine falsche Ersatzteil-Nr. gedruckt.

**Die richtige Nummer lautet :**

Ref.No.	Part no.	Description
TU 1-B	EE 412395 J	TV TUNER ENV-578C9F1