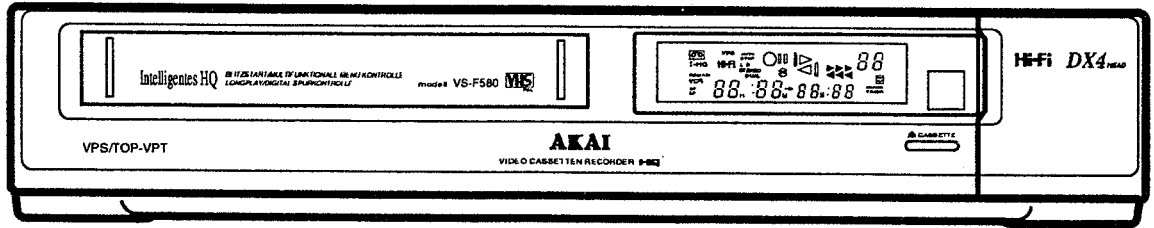


VS-F550, F560
VS-F580, F590

AKAI SERVICE MANUAL



HQ
HIGH QUALITY

VHS
PAL

Hi-Fi **NICAM**
DIGITAL STEREO

MODEL VS-F580EOG-VD

VIDEO CASSETTE RECORDER

MODEL **VS-F550**^{EA-D/EO-D/EOH-D/}_{EOH-N}

MODEL **VS-F560**_{EK-N}

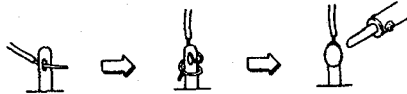
MODEL **VS-F580**_{EOG-VD}

MODEL **VS-F590**_{EOH-DN}

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

- Parts identified by the Δ (*) symbol are critical for safety. Replace them only with the parts number specified.
- 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.
- Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 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
- 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.



- Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- Also check areas surrounding repaired locations.
- Make sure that foreign objects (screws, solder droplets, 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 μ 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

| | | | |
|-------------------------------------|---|---|---|
| Format | EA-D/EK-N VHS standard | Video | Line input level 0.5 - 2.0 Vp-p/75 ohms, unbalanced |
| EO-D/EOG-VD/EOH-D/EOH-DN/EOH-N | VHS standard (PAL, MESECAM) | Line output level 1.0 Vp-p/75 ohms, unbalanced | S/N ratio More than 45 dB |
| Video recording system | Rotary, slant azimuth two-head helical scan system | Horizontal resolution | More than 250 lines |
| Rotary heads | 4 video heads and 2 audio heads | Audio | (VHS HiFi : 2 ch, Linear : 1 ch) |
| RF input | | Line input level -6 dBs/50 k ohms, unbalanced | Line output level -6 dBs/1 k ohms, unbalanced |
| EA-D | System B, G with monaural or multiplexed 2 channel audio VHF ch 0 - 5, 5a, 6 - 11 UHF ch 21 - 69 | S/N ratio More than 40 dB | Frequency response 70 - 10,000 Hz |
| EK-N | System I with monaural or multiplexed 2 channel audio (NICAM) UHF ch 21 - 69 | Wow & Flutter less than 0.005 % WRMS (VHS HiFi) | |
| EO-D/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 | Recording/playback time | SP mode 240 min. with E-240 cassette |
| EOH-D/EOH-DN | 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 | LP mode 480 min. with E-240 cassette | |
| 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 | Tape speed | SP mode 23.39 mm/sec. |
| RF output | | LP mode 11.695 mm/sec. | |
| EA-D | System B type modulation VHF ch 0, 1 switchable (preset ch 1) | Quick finder | SP mode Approx. 5 or 13 times normal speed |
| EK-N | System I type modulation UHF ch 30 - 39 adjustable (preset ch 36) | LP mode Approx. 3 or 7 times normal speed | |
| EO-D/EOG-VD/EOH-D/EOH-DN/EOH-N | System G type modulation UHF ch 30 - 39 adjustable (preset ch 36) | FF,REW,TIME | Approx. 4.5 min with E-180 cassette |
| Recording (line input) | | TIMER | Program 8 Programs / year and QUICK TIMER |
| EA-D/EK-N | PAL | Clock reference | Quartz crystal |
| EO-D/EOG-VD/EOH-D/EOH-DN/EOH-N | PAL, SECAM (recorded as MESECAM) | Display | TV screen & FL (Tape counter, Timer etc.) |
| Playback (line output) | | Power requirements | |
| EA-D/EK-N | PAL | EA-D/EK-N | 240 V AC, 50 Hz |
| EO-D/EOG-VD/EOH-D/EOH-DN/EOH-N | PAL, SECAM (MESECAM Tape) | EO-D/EOG-VD/EOH-D/EOH-DN/EOH-N | 220 - 230V AC, 50Hz |
| | | Power consumption | |
| | | EA-D | 31 W |
| | | EO-D | 33 W |
| | | EOH-D | 36 W |
| | | EOH-N/EOH-DN | 40 W |
| | | EK-N | 34 W |
| | | EOG-VD | 38 W |
| | | Operating temperature | 5°C - 40°C |
| | | Dimensions | 425(W) x 82(H) x 357(D) mm |
| | | Weight | |
| | | EO-D | 5.8 kg |
| | | EK-N/EA-D/EOH-D | 5.9 kg |
| | | EOG-VD/EOH-N/EOH-DN | 6.0 kg |
| | | Standard accessories | |
| | | 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.

SYMBOLS OF MODEL NAME FOR PRIMARY DESTINATION

Symbol indicates the destination of the units as listed below.

| 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 |
| | E | South-East Asia | | |
| EV | U | Middle East, South-East Asia | PAL | B,G |
| | Y1 | New Zealand | | |
| | Y7 | Saudi Arabia | | |
| EZ | S | New Zealand | PAL | B,G |
| | E | Middle East | | |
| EGN | Y7 | Saudi Arabia | PAL,NTSC | B,G |
| | E | France | | |
| 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 |

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 LHQ 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 VCR to the "TEST MODE" and set the tape speed to "SP mode".
2. Make a recording on the test tape TF-556AT (AT-751822J) and play it back.
3. 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.

4. After the auto tracking is activated, press the "CANCEL" button on the remote control unit. So, present RF envelope detect voltage data will be memorized in the EEP ROM IC.

5. Set the tape speed to the "LP mode" and repeat steps 2 to 4.

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 channel number indicator segment 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.

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 playback 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 OSD modes and tape speed. (SP/LP SELECT)

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.

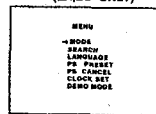
VPT SET : To set the VPT (EXCEPT EA, EO)

DEMO MODE : To demonstrate some of the modes available on this VCR.

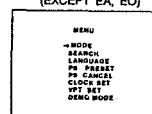
if necessary, refer to the respective sections in the operator's manual for detailed information.

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.

(EA,EO ONLY)



(EXCEPT EA, EO)



2. Select the desired mode by setting the arrow indicator to the appropriate position with cursor "V" button. The arrow indicator moves downwards each time the button is pressed. Pressing the cursor "A" 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 "v" button to soften the picture.

• Stability adjustment

- 1) To correct picture shake during the slow motion or still mode:

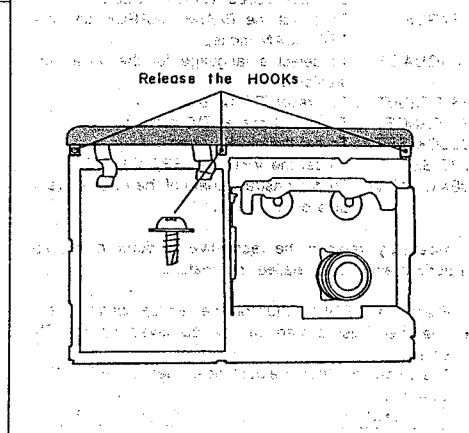
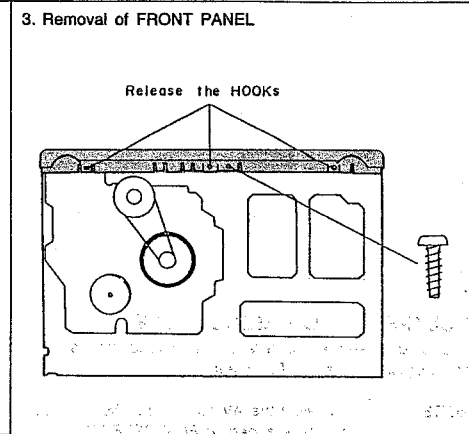
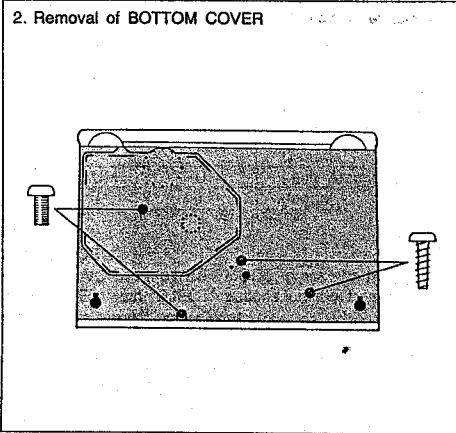
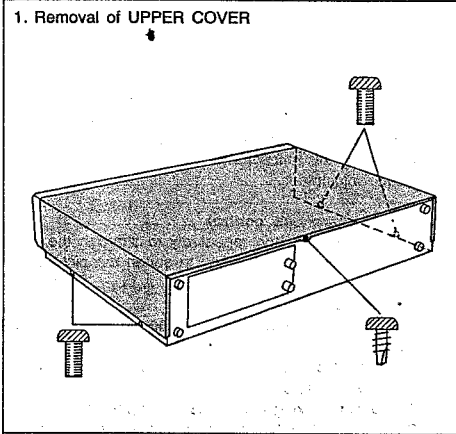
Press the "A" or "V" cursor button until the picture shake is corrected.

- 2) To correct tracking during the still mode:

Press the "<" or ">" cursor button repeatedly until the picture is clear.

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.



II. PRINCIPAL PARTS LOCATION

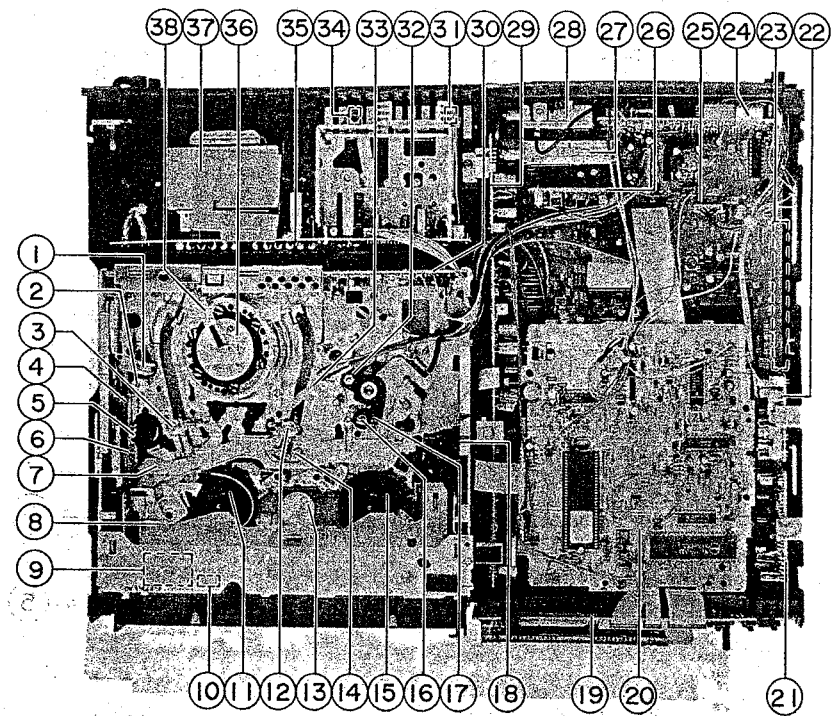


Fig. 2-1 Top view

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. FULL TRACK ERASE HEAD 2. SUPPLY TAPE GUIDE 3. SUPPLY LOADING LEADER 4. SENSOR (S) PCB (END SENSOR) 5. FRONT LOADING GEAR 6. FRONT LOADING SLIDER 7. TENSION ARM 8. CASSETTE LOAD BLK 9. LOADING MOTOR 10. REC SAFETY SWITCH 11. SUPPLY REEL TABLE 12. TAKE UP LOADING LEADER 13. IDLER PART 14. SENSOR LED 15. TAKE UP REEL TABLE 16. CAPSTAN MOTOR 17. REVIEW ARM 18. SENSOR (T) PCB (START SENSOR) 19. OPERATION PCB | <ul style="list-style-type: none"> 20. VPST / PDC PCB (EOG-VD only) OPTION: PDC (EOH-DN, EOH-D, EOH-N) OPTION: PDCT (EK-N) 21. I-HQ PCB 22. D. MULTI PCB (EA-D, EO-D, EOH-D, EOG-VD) 23. NICAM PCB (EK-N, EOH-N, EOH-DN)) 24. I/O (INPUT/OUTPUT) PCB 25. MAIN PCB 26. VIF UNIT 27. TUNER UNIT 28. RF CONVERTOR UNIT 29. SERVO/SYSCON PCB 30. PRE AMP PCB 31. TR (2) PCB 32. PINCH ROLLER 33. AUDIO / CONTROL / S. ERASE HEAD 34. TR (1) PCB 35. POWER SUPPLY PCB 36. VIDEO HEAD DRUM BLOCK 37. POWER TRANSFORMER 38. EARTH BRUSH |
|---|---|

* Photograph employed on this page is of model VS-F580EOG-VD.

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.

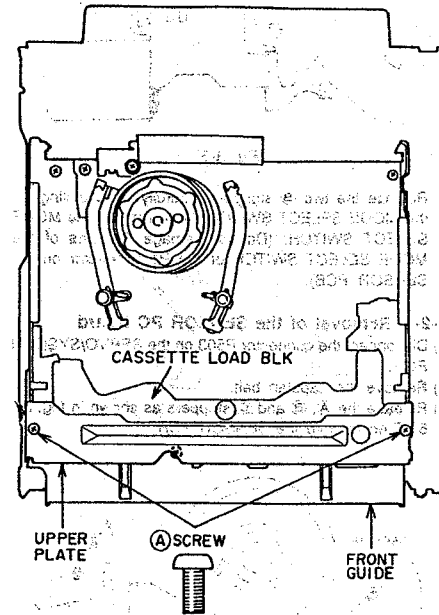


Fig. 3-1

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.

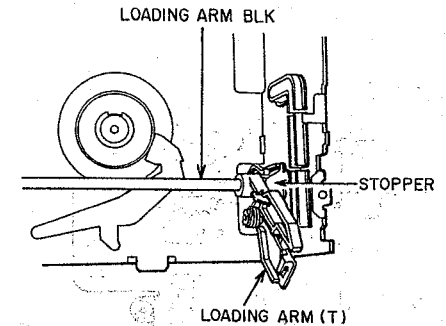


Fig. 3-2

- 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).

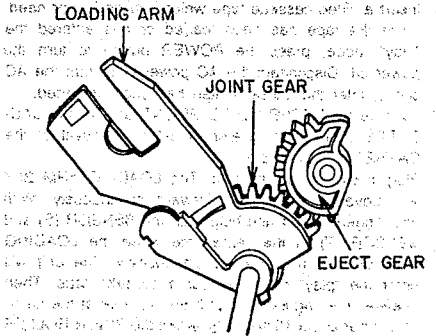


Fig. 3-3

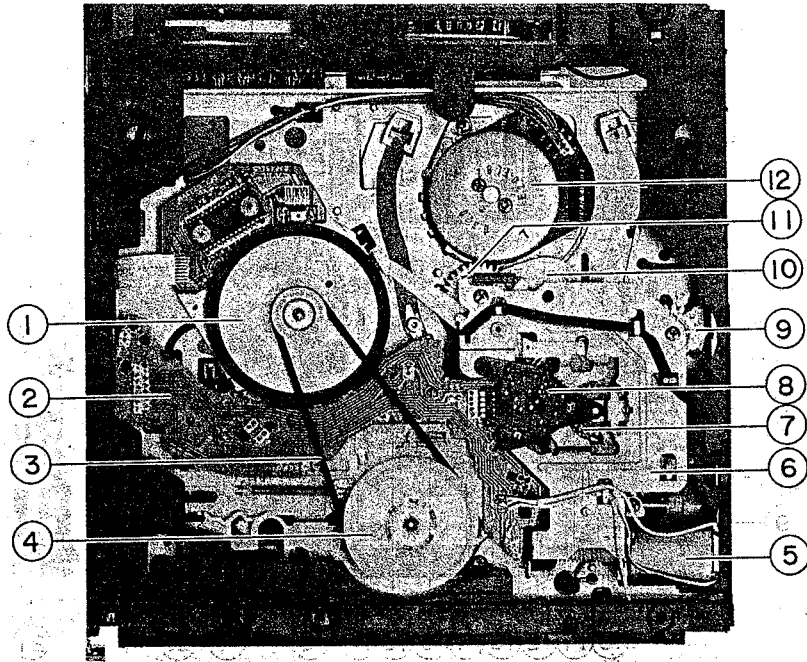


Fig. 2-2 Bottom view

- | | |
|------------------------|---------------------------|
| 1. CAPSTAN MOTOR BLOCK | 7. CAM SLIDER GEAR |
| 2. SENSOR PCB | 8. MODE SELECT SWITCH |
| 3. CAPSTAN BELT | 9. FRONT LOADING GEAR |
| 4. CLUTCH DISK PART | 10. TOGGLE (S) GEAR BLOCK |
| 5. LOADING MOTOR | 11. TOGGLE (T) GEAR BLOCK |
| 6. LOADING DRIVE BLOCK | 12. DRUM MOTOR BLOCK |

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.

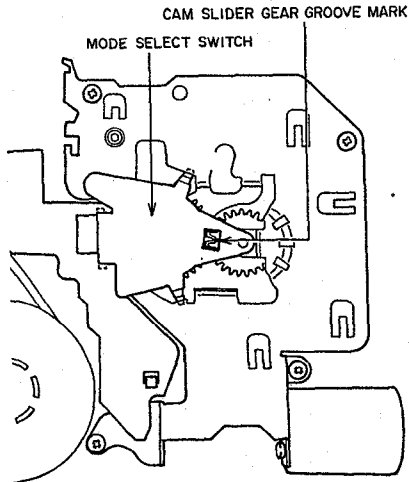


Fig. 3-4

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 OPERATION PCB.

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.

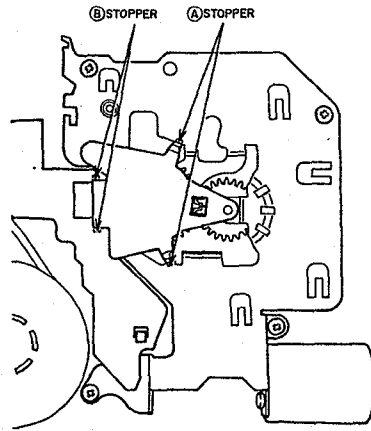


Fig. 3-5

- 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 P503 on the SERVO/SYSCON 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.

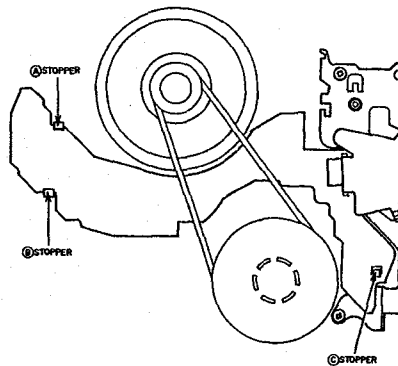


Fig. 3-6

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.

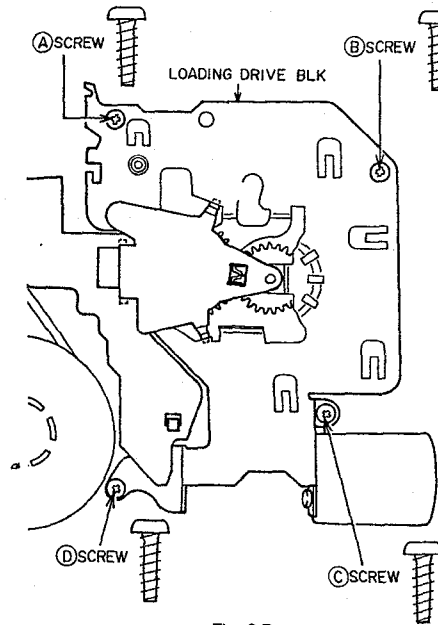


Fig. 3-7

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.

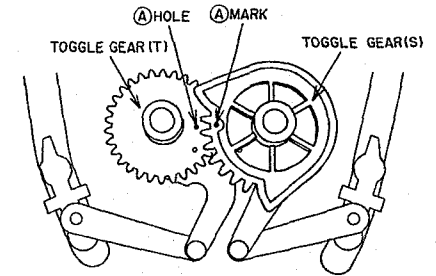


Fig. 3-8

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

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

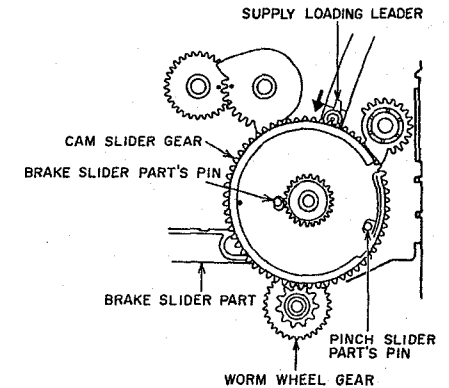


Fig. 3-9

- 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.

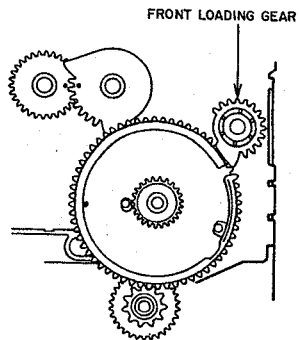


Fig. 3-10

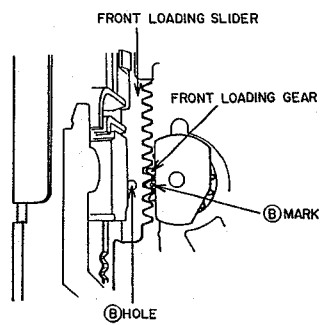


Fig. 3-11

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.

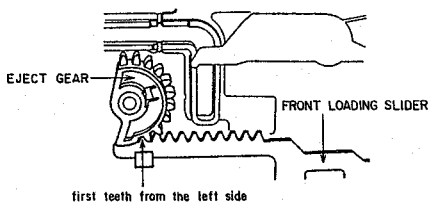


Fig. 3-12

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

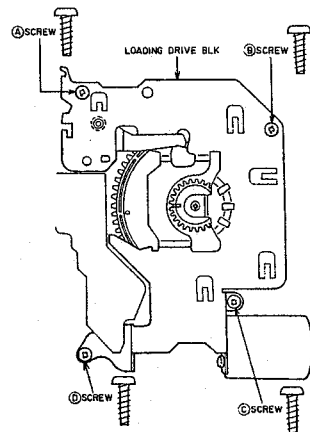


Fig. 3-13

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.

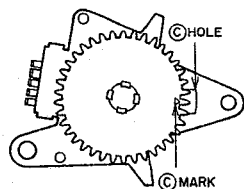


Fig. 3-14

- 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.

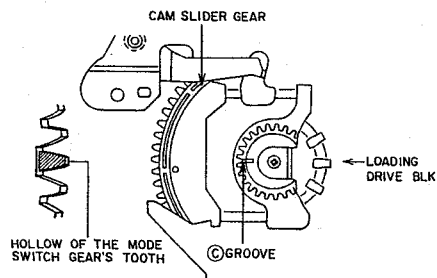


Fig. 3-15

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.

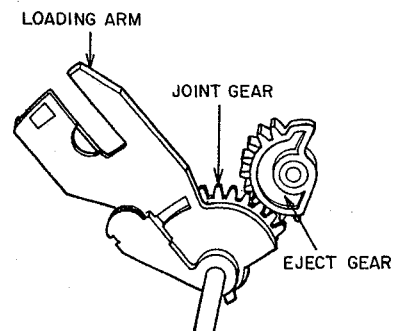


Fig. 3-16

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.

5.REPLACEMENT OF THE PINCH ROLLER ROLLER PART

- 1) Remove the Ⓞ 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 Ⓞ screw.

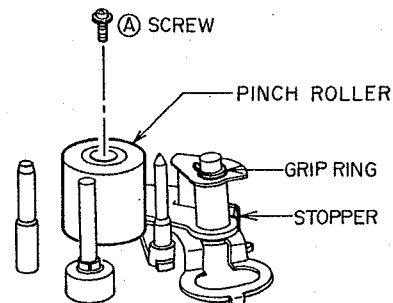


Fig. 3-17

3-6.REPLACEMENT OF THE IDLER PART 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 as shown in Fig. 3-18, then remove it.

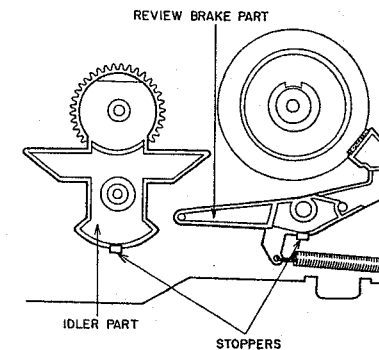


Fig. 3-18

- 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 UPPER DRUM

3-7-1. Removal of the UPPER DRUM

- 1) Remove one of the PRE AMP retaining screw and remove the EARTH BRUSH.
- 2) Unsolder the twelve relay leads and remove the two upper drum fixing screws as shown in Fig. 3-19.
- 3) Gently lift and remove the UPPER DRUM.

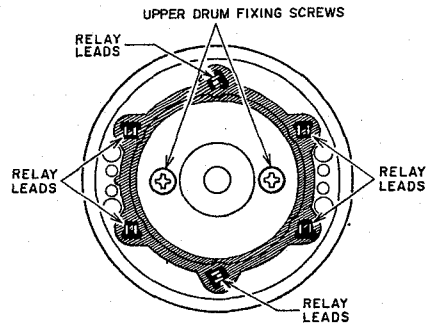


Fig. 3-19

3-7-2. Installation of the UPPER DRUM

- 1) Attach the UPPER DRUM to the LOWER DRUM ROTOR, so that the upper drum convex (A) and lower drum rotor's white mark line up, as shown in Fig. 3-20.

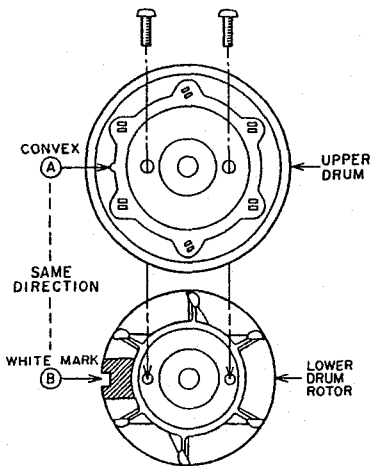


Fig. 3-20

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.

3-7-3. After replacement

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

- 1) Reference RF envelope detect voltage preset. (Ref to "TEST MODE", step 1)
- 2) Control head Phase adjustment. (IV. MECHANICAL ADJUSTMENT 4-3-3.)
- 3) PB switching point adjustment. (V. ELECTRICAL ADJUSTMENT Step 1)
- 4) Video head REC current adjustment. (V. ELECTRICAL ADJUSTMENT Step 7)
- 5) HiFi head REC current adjustment. (V. ELECTRICAL ADJUSTMENT 5-2 Step 5)

3-8. 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.

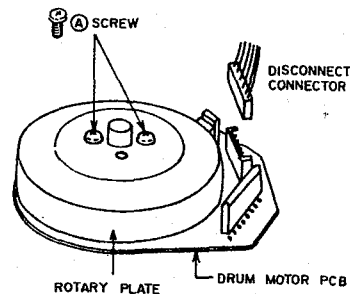


Fig. 3-21

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

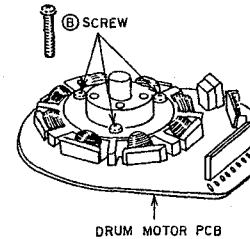


Fig. 3-22

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

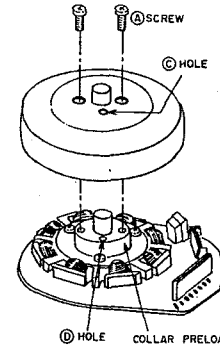


Fig. 3-23

3-9. REMOVAL OF THE MECHANISM BLOCK

3-9-1. Removal of the PRE AMP PC Board

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

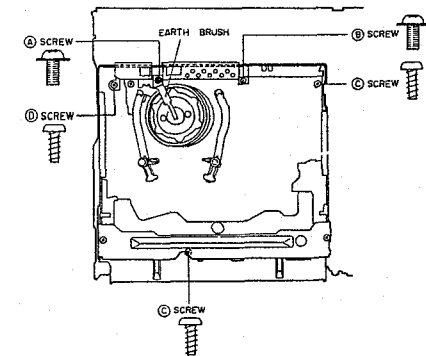


Fig. 3-24

- 2) Remove the (B) and (C) screw which fix the PRE AMP PCB then pull up the PRE AMP PCB as shown in Fig. 3-24.

3-9-2. Removal of the MECHANISM BLK (MECHA. FRAME)

- 1) Disconnect the connectors P501, P502, P503 on the SERVO/SYSCON PCB.
- 2) Disconnect the P1 connector on the A/C HEAD PCB and 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.

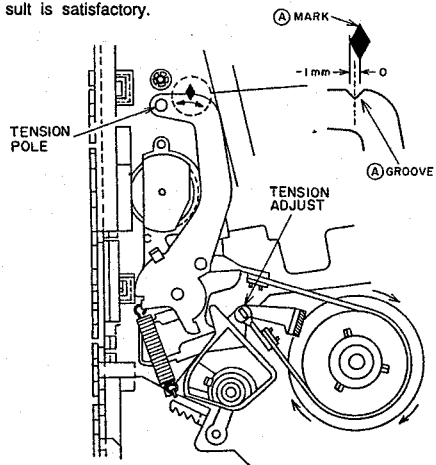


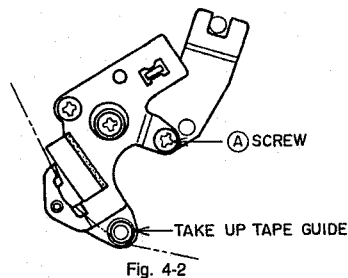
Fig. 4-1

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) Playback 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.)



(TAKE-UP TAPE GUIDE)

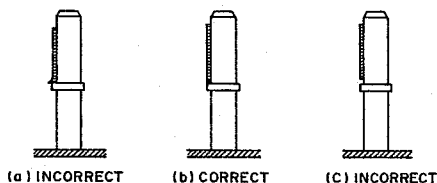


Fig. 4-3

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.

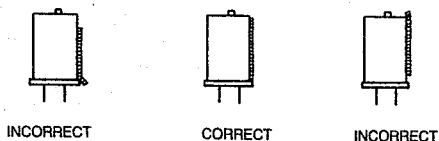


Fig. 4-4

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.)

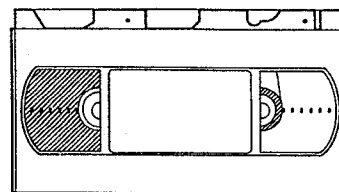


Fig. 4-5

- 2) Turn the REVIEW ARM height (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.

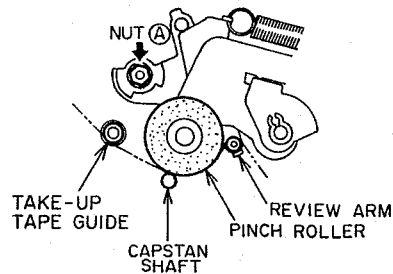


Fig. 4-6

(TAKE-UP TAPE GUIDE)

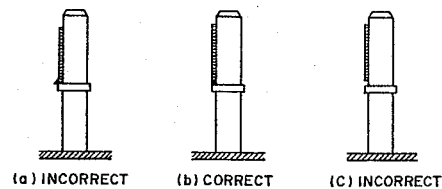


Fig. 4-7

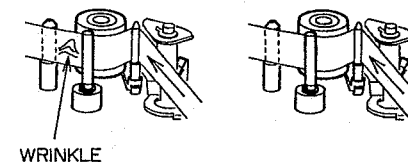


Fig. 4-8

- 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 (A) nut (Shown in Fig. 4-6) until it disappears.

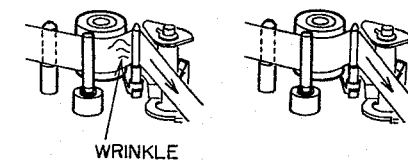


Fig. 4-9

- 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.)

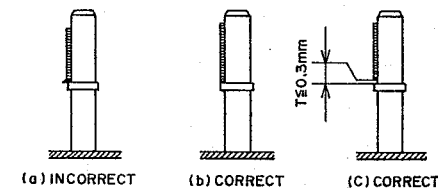


Fig. 4-10

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.)

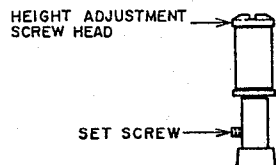


Fig. 4-11

- 2) Play back reference tape TF-530RFS (AT-751775).
- 3) Connect an oscilloscope's CH-1 to Q204 emitter (ENVE) on the MAIN PCB and CH-2 to TP803 (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.

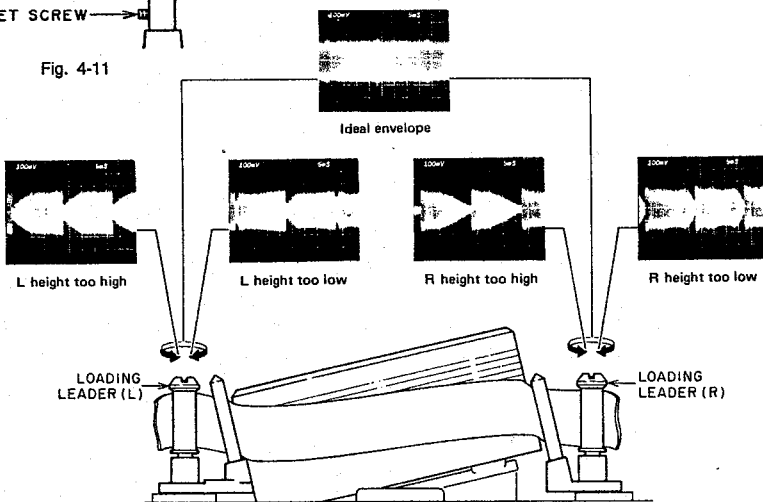


Fig. 4-12

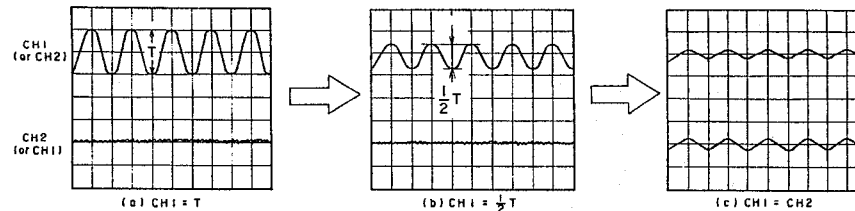


Fig. 4-14

4-3-3. Phase adjustment

- 1) Connect an oscilloscope's CH-1 to the Q204 emitter (ENVE) on the MAIN PCB and CH-2 to TP803 (V-SWP) on the PRE AMP PCB for triggering.
- 2) Play back 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.

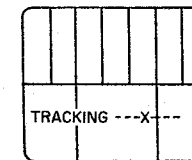


Fig. 4-15

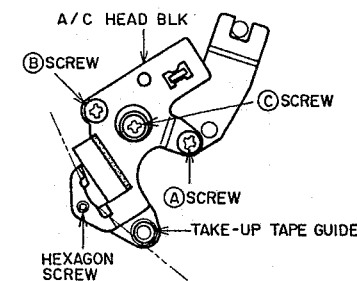


Fig. 4-16

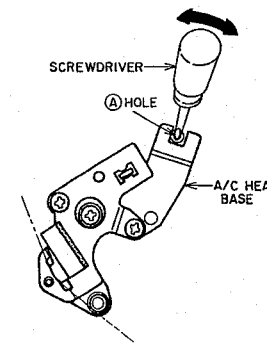


Fig. 4-17

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 on the rear panel.
- 2) Play back reference tape TF-530RFS (AT-751775).
- 3) Press the AUDIO MONITOR button on the remote control unit and choose LINEAR audio track playback.
- 4) Adjust the © screw to obtain the maximum audio output.

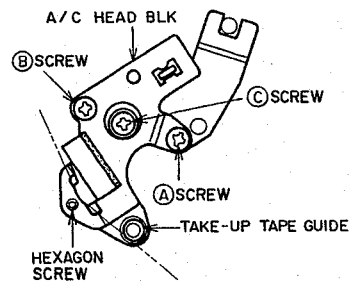


Fig. 4-13

4-3-2. Height adjustment

- 1) Play back test tape TF-526HH (AT-751788).
- 2) Connect an oscilloscope's CH-1 to the AUDIO OUT terminal on the rear panel and CH-2 to TP502 (CTL OUT) on the SERVO/SYSCON 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).

V. ELECTRICAL ADJUSTMENT

5-1. VIDEO & SERVO CIRCUIT ADJUSTMENT

Precautionary items prior to adjustments

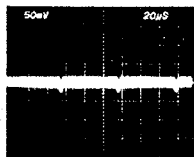
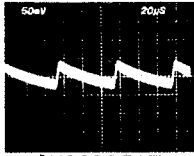
1. The color bar generator output should be 1.0 Vp-p
2. The video output terminal should be terminated with 75 ohms (connect dummy load or 75 ohms input TV.)

Required following test tapes.

| Test tape | Parts No. |
|-----------|-----------|
| TF-527BL | AT-711880 |
| TF-530RFS | AT-751775 |
| TF-532CBS | AT-751360 |

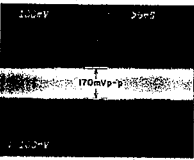
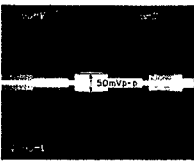
2 AFC ERROR

1. "E-E" (stop mode), PAL colour bar signal
2. TP501 (AFC ERROR) & VR500 (AFC)
3. Connect an oscilloscope to TP501.
 - * Adjust the VR500 so that the waveform becomes as flat as possible.



6 VIDEO REC CURRENT

1. "REC" (LP mode), PAL color bar signal
2. TP801 (TP REC. CURR) & VR802 (REC-CHROMA), VR801 (REC-Y)
3. Connect an oscilloscope's CH-1 to TP801 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 VR801 (REC-Y) fully counterclockwise.
 - * Adjust VR802 so that the chroma REC current becomes 50 mVp-p at the cyan part.
 - * Adjust VR801 so that Y REC current becomes 170 mVp-p at the V-SYNC area.



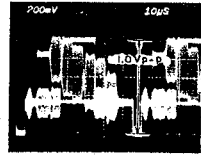
STEP ADJUSTMENT ITEM

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

Test point ADJ. part

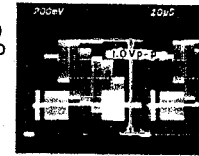
8 VIDEO PB LEVEL

1. "REC"-PB, PAL color bar signal
2. VIDEO OUT & VR102 (PB LEVEL)
3. Connect an oscilloscope to VIDEO OUT
 - * Make some recording on the tape, then play it back
 - * Adjust VR102 so that PB level becomes 1.0 Vp-p



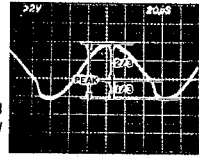
3 VIDEO E-E LEVEL

1. "E-E" (STOP mode), PAL color bar signal
2. VIDEO OUT & VR101 (E-E LEVEL)
3. Connect an oscilloscope to VIDEO OUT.
 - * 1.0 Vp-p



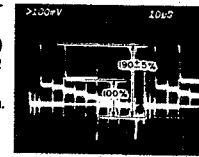
9 P / S AUTO SENSITIVITY (EOG ONLY)

1. "E-E" (stop mode), SECAM color bar signal
2. TP251 (P / S SENS), VL251 (P / S SENS)
3. Connect an oscilloscope to TP251 (P / S SENS).
 - * Adjust the VL251 so that distorted point of the waveform becomes 1/3 from the bottom as shown.



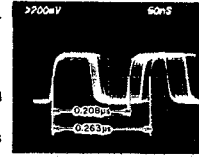
4 WHITE CLIP

1. "E-E" (stop mode), PAL color bar signal
2. TP102 (W.CLIP) & VR105 (W.CLIP)
3. Connect an oscilloscope to TP102
 - * Adjust VR105 so that white clip level becomes $190 \pm 5\%$ as shown.



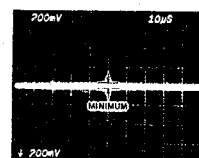
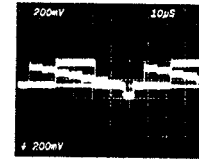
5 CARRIER SET & DEVIATION

1. "REC", PAL color bar signal
2. TP101 (REC.Y) & VR104 (CARRIER), VR103 (DEVIATION)
3. Connect an oscilloscope to TP101 (REC.Y)
 - * VR104 (CARRIER) : 0.263 μ s (3.8 MHz)
 - * VR103 (DEVIATION) : 0.208 μ s (4.8 MHz)



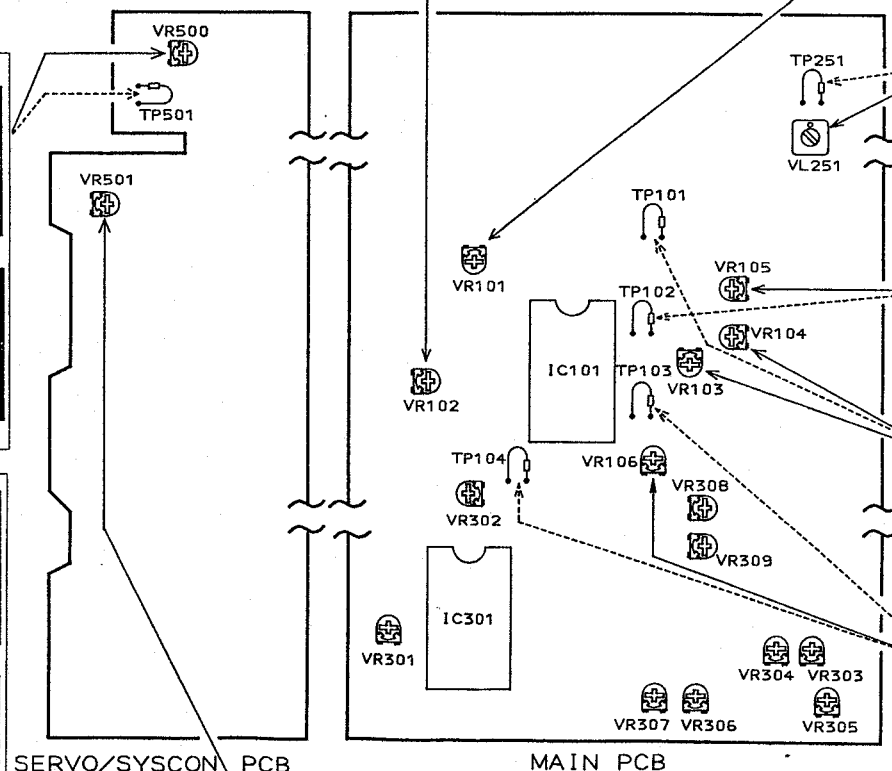
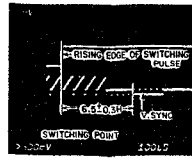
7 CCD

1. "PB", test tape TF-532CBS
2. TP103 (CCD), TP104 (CCD) & VR106 (CCD LEVEL)
3. Connect an oscilloscope's CH-1 to TP103 and CH-2 to TP104. And set the oscilloscope's display mode to "ADD" mode and CH-2 polarity to "INVERTED".
 - * Adjust VR106 so that waveform level on the oscilloscope becomes minimum.



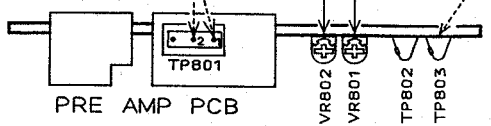
1 PB SWITCHING POINT

1. "PB", test tape TF-530RFS
2. TP803 (SWP), VIDEO OUT & VR501 (SW. POINT)
3. Connect an oscilloscope's CH-1 to TP803 (SWP) for triggering and CH-2 to VIDEO OUT
 - * Adjust VR501 so that the switching point is positioned 6.5 H from the V-SYNC left edge as shown.



SERVO/SYSCON PCB

MAIN PCB



5-2. AUDIO CIRCUIT ADJUSTMENT

Precautionary items prior to adjustments

1. Never adjust the D MULTI circuit because it is adjusted precisely at the factory and the adjustment of the D MULTI circuit is required special testing equipments.

Required following test tapes.

| Test tape | Parts No. |
|-----------|-----------|
| TF-527BL | AT-711880 |
| TF-532CBS | AT-751360 |

STEP ADJUSTMENT ITEM

1. MODE and INPUT SIGNAL / TEST TAPE
2. TEST POINT and ADJ part
3. REMARKS (•) & RESULT(*)

→ ADJ. part

→ Test point

3 CARRIER FREQUENCY

1. "E-E" (stop mode), no signal input
2. R361 (R), R360 (L) & VR306 (R-f), VR304 (L-f)
3. • Connect a frequency counter to the lead of the R361 and ground.
Adjust VR306 so that the reading on the frequency counter becomes $1.8 \text{ MHz} \pm 10 \text{ kHz}$.
• Connect the frequency counter to the lead of the R360 and ground.
* Adjust VR304 so that the reading on the frequency counter becomes $1.4 \text{ MHz} \pm 10 \text{ kHz}$.

1 REC BIAS

1. "REC" (LP mode), (no signal input)
2. TP301 1, 2 pin & VR302 (REC BIAS)
3. • Connect an AC voltmeter to TP301 ① pin and ② pin (ground). (Never connect the AC voltmeter's ground to the VCR's ground)
* Adjust VR302 so that the reading on the AC voltmeter becomes 2.4 mV.

6 METER SENSITIVITY

1. "E-E", 1kHz -6 dB
2. AUDIO OUT & VR309 (L-CH), VR308 (R-CH)
3. • Connect an AC voltmeter to the AUDIO OUT.
• Set the volume on the front panel to the center position. And confirm that the output level is -6 dBs. If not, adjust the volume slightly until the level becomes -6 dBs.
* To adjust the VR308 and VR309, first display the bar meter on the TV screen using the remote controls DISPLAY button. adjust the VR308, VR309 until the bar meter reaches the (C) mark. If the result is not satisfactory, readjust the VR308 or VR309 again.

2 LINEAR PB LEVEL

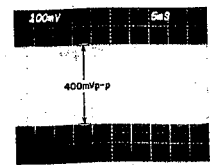
1. "PB", test tape TF-532CBS
2. AUDIO OUT & VR301 (LINEAR PB LEVEL)
3. • Connect an AC voltmeter to AUDIO OUT (L-CH) or (R-CH).
• Choose the conventional audio track playback with pressing the "AUDIO MONITOR" button on the remote control.
* Adjust VR301 so that output level becomes -10.0 dBs.

4 DEVIATION

1. "PB", test tape TF-532CBS
2. AUDIO OUT(L), (R) & VR303 (L-DEV), VR307 (R-DEV)
3. • Connect an AC voltmeter to the AUDIO OUT.
* Adjust VR303 and VR307 so that the output level of both L and R channel becomes -6 dBs.
• Input 1 kHz, -6 dBs signal to AUDIO IN terminal and set a blank tape to the VCR.
* Make some recording then play it back and confirm that the playback level is -6 dBs.

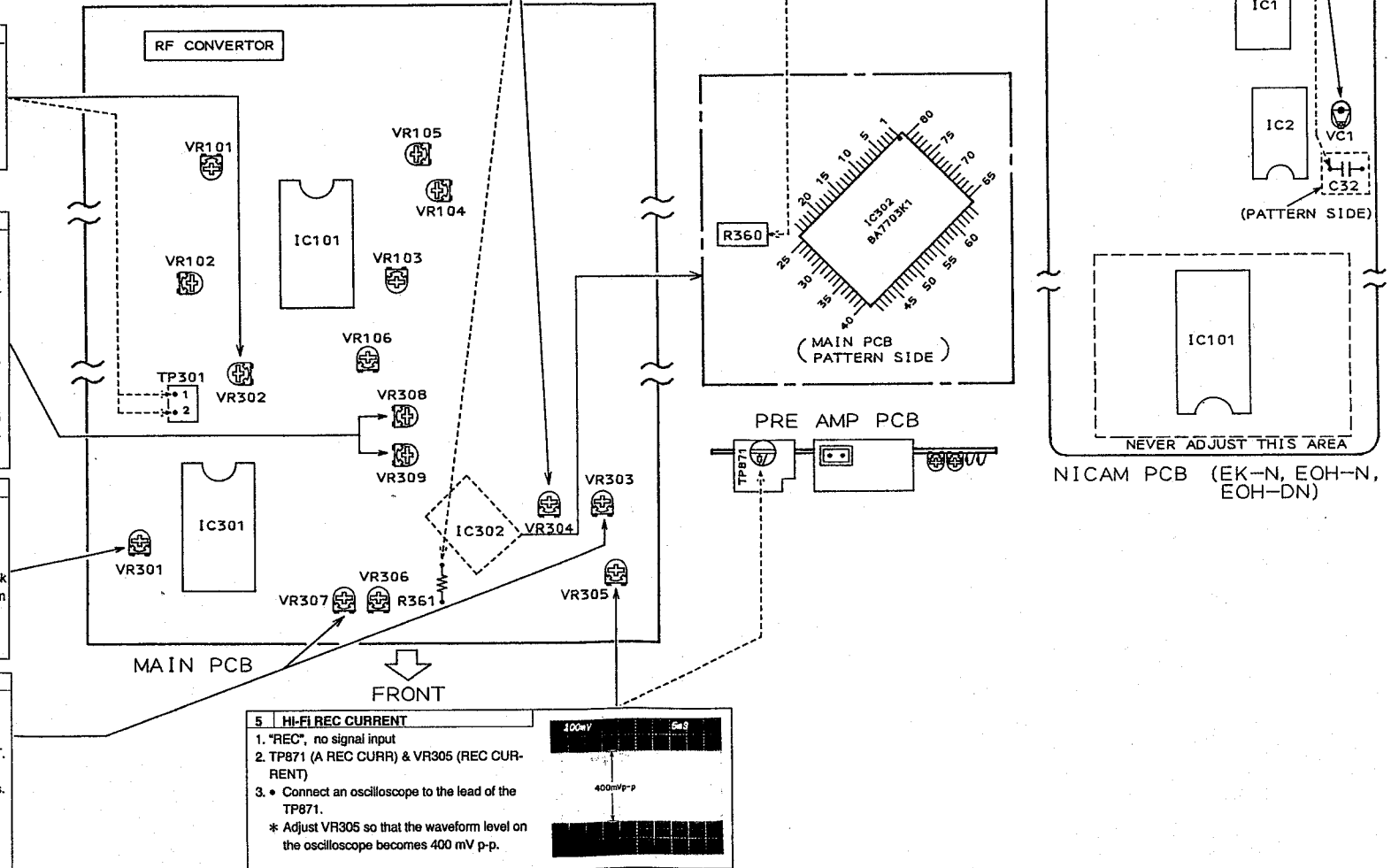
5 HI-FI REC CURRENT

1. "REC", no signal input
2. TP871 (A REC CURR) & VR305 (REC CURRENT)
3. • Connect an oscilloscope to the lead of the TP871.
* Adjust VR305 so that the waveform level on the oscilloscope becomes 400 mV p-p.



7 D/A OSC

1. "E-E" (stop mode), receive NICAM broadcast station
2. TP-OSC (C32 positive side) & VC1 (D/A OSC)
3. • Connect the oscilloscope to TP-OSC and set input mode to "DC".
* Adjust VC1 so that average DC voltage becomes 1.8 V.



VI. PARTS LIST

ATTENTION

- 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.
- Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
- 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

- 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.
- The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
- Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 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 | PAN20x03STL CMT |
| 4 | ZS-536488 | BID20x08STL 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 [C,A] |
| X1 | EI-318384 | OSC XTAL 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.

- 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-B1040A010A | REMOCON BLK RC-V551E [EK] |
| 2 | AV-B1040A010B | REMOCON BLK RC-V551G [EOG] |
| 3 | AV-B1043A010A | REMOCON BLK RC-V552E [EA,EOG,EOH] |
| 4 | BL-V1102A140A | ARM LOADING BLK 425EA |
| 5 | BL-387458J2 | CAPSTAN BRAKE PART |
| 6 | BL-V1123A050A | TENSION ARM BLK F600EA |
| 7 | BM-400682J1 | MOTOR DFX-67B3VWB1 [CAPSTAN MOTOR] |
| 8 | BM-401296J1 | MOTOR E20EL89 [DRUM MOTOR] |
| 9 | BM-387503J | MOTOR PART [LOADING MOTOR] |
| 10 | *BT-732677J | TRANS POW F510EK [EA,EK] |
| 11 | *BT-732678J | TRANS POW F510EO [EO,EOG,EOH] |
| 12 | BV-V1102A150A | CASSETTE LOAD BLK 425EA |
| 13 | BV-V1102A070A | LEADER S BLK 425EA |
| 14 | BV-V1102A080A | LEADER T BLK 425EA |
| 15 | BV-V1123A410C | LOWER DRUM BLK F600EA |
| 16 | BV-732641J | RF CONVERTER MDLK5S160A [EA] |
| 17 | BV-732642J | RF CONVERTER MDLK6B731A [EK] |
| 18 | BV-732643J | RF CONVERTER MDLK6D748A [EO,EOG,EOH] |
| 19 | BV-V1123A420C | UPPER DRUM BLK F600EA |
| 20 | EC-732653J | C DBL LAYER AC310-502G 473Z 5R5 |
| 21 | ED-397391J | D LED BR3668S RED |
| 22 | ED-390011J | D LED GL451 INFRARED [D1] |
| 23 | ED-390012J | D LED GL4800 INFRARED [D2][D3] |
| 24 | ED-403450J | D LED SE303ARF-C INFRARED |
| 25 | ED-386226J | D SCHOTTKY RB100AT-32T26 40/1 |
| 26 | ED-733270J | D SILICON CHIP DA204K |
| 27 | ED-386031J | D SILICON CHIP MA110-TW |
| 28 | ED-724994J | D SILICON CHIP MC2838 |
| 29 | *ED-387522J | D SILICON DBF40C 200V/4.0A |
| 30 | *ED-732667J | D SILICON DSC30TC |
| 31 | *ED-357754 | D SILICON DS135D 200/1.0A |
| 32 | ED-307572 | D SILICON H 1SS131 |
| 33 | *ED-379041 | D SILICON S5566B 100/1.0A |
| 34 | ED-511907 | D SILICON 1N4002 100/1.0A |
| 35 | ED-394936J | D VARACTOR 1SV111 |
| 36 | ED-396065J | D ZENER H HZS12C1 |
| 37 | ED-396067J | D ZENER H HZS18-1 |
| 38 | ED-396068J | D ZENER H HZS18-3 |
| 39 | ED-397289J | D ZENER H HZS20-2 |
| 40 | ED-397399J | D ZENER H HZS3C3 |
| 41 | ED-386086J | D ZENER H HZS30-2L |
| 42 | ED-365699 | D ZENER H HZS5.6B 2J |
| 43 | ED-389688J | D ZENER H HZS5C3 |
| 44 | ED-397233J | D ZENER H HZS5B2 |
| 45 | ED-387919J | D ZENER H HZS6A1L |
| 46 | ED-378530J | D ZENER H HZS6B2L |
| 47 | ED-400171J | D ZENER H HZS6C2L |
| 48 | ED-387783J | D ZENER H HZS6C3L |
| 49 | ED-387763J | D ZENER H HZS7B3L |
| 50 | ED-367502 | D ZENER H HZS9A1L |
| 51 | ED-388368J | D ZENER H HZS9B3L |
| 52 | ED-387765J | D ZENER H HZS9C1L |
| 53 | ED-403227J | D ZENER H MTZJ6.8C T26 |
| 54 | ED-405446J | D ZENER H UTZJ5.6B T26 |
| 55 | EH-383056J | COMP R RGL4X 103J |
| 56 | EH-386837J | COMP R RGL6X 103J |
| 57 | EH-725827J | FILTER CE SAF32.9MDE70Z |
| 58 | EH-725828J | FILTER CE SAF33.0MDA70Z [EOH-DN/N] |
| 59 | EH-373916 | FILTER CE SAF36.9M270Z |
| 60 | EH-730625J | FILTER CE SAF38.9M270Z |

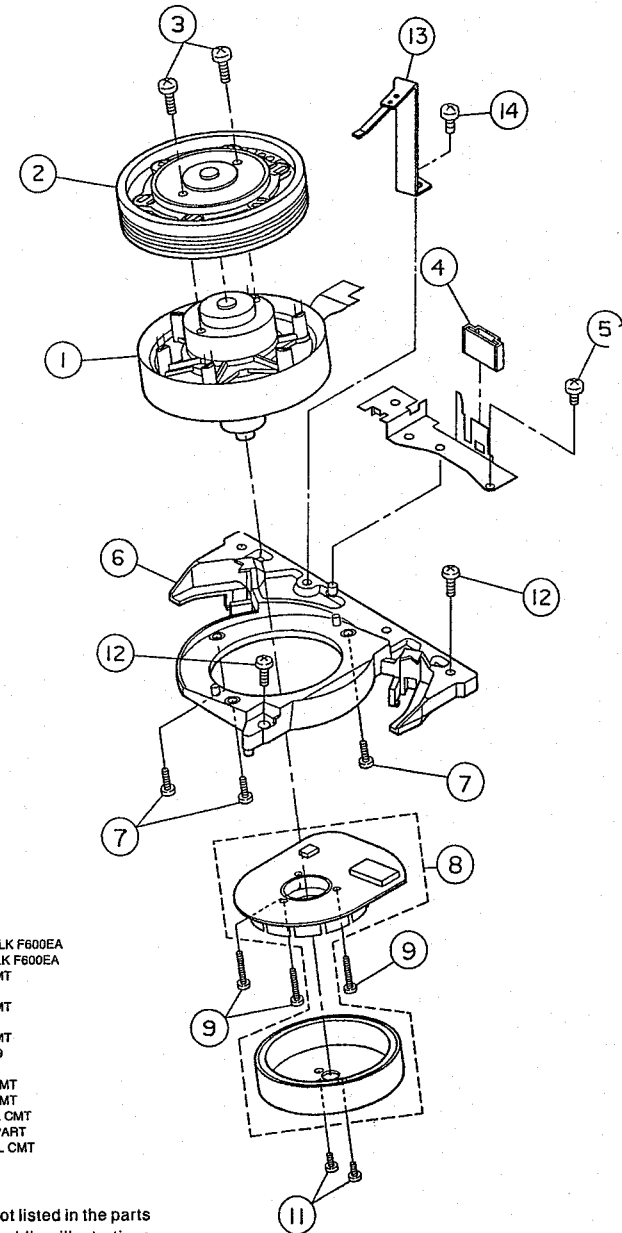
| Ref.No. | Part No. | Description |
|---------|-------------|--|
| 61 | EH-373917 | FILTER CE SAF39.5M270Z |
| 62 | EH-394948J | FILTER CE SFT5.5MA [EOH-DN/N] |
| 63 | EH-712604 | FILTER CE SFT5.74MA |
| 64 | EH-394947J | FILTER CE SFT5.74MA |
| 65 | EH-725829J | FILTER CE SFT6.0MA |
| 66 | EH-368948 | FILTER CE TP55.5MW 5.5000MHZ |
| 67 | EH-373919 | FILTER CE TP56.0MB |
| 68 | EH-394684J | FILTER EMI ZBF503D-00TA T05 |
| 69 | EH-732529J | FILTER SAW SAF31.4MC70Z |
| 70 | EH-732528J | FILTER SAW SAF33.4MC70Z [EO,EOG,EOH-D] |
| 71 | EI-410479J1 | IC UPD75217CW-155 JHXOPP2 |
| 72 | EI-408432J | IC UPD75218CW-012 JXVPT1 |
| 73 | EI-394680J | IC AN3171K |
| 74 | EI-396454J | IC AN3267K |
| 75 | EI-376794J1 | IC BA10393 |
| 76 | EI-373980 | IC BA15218N |
| 77 | EI-364896 | IC BA6138 |
| 78 | EI-397299J | IC BA6229-U2 |
| 79 | EI-366892 | IC BA7025L [EOG] |
| 80 | EI-393786J | IC BA7046 |
| 81 | EI-387586J | IC BA7244BS |
| 82 | EI-394963J | IC BA7703K1 |
| 83 | EI-397285J | IC BA7740S |
| 84 | EI-383604J | IC BA7765AS |
| 85 | EI-356457 | IC BU4013B |
| 86 | EI-354640 | IC BU4052B |
| 87 | EI-394937J | IC CF70124 |
| 88 | EI-394949J | IC IR3P72 |
| 89 | EI-360586 | IC LA6358S |
| 90 | EI-394839J | IC LA7332 |
| 91 | EI-729997J | IC LA7575 |
| 92 | EI-390053J | IC LA7910 [EXCEPT EK] |
| 93 | EI-394951J | IC LB1215 |
| 94 | EI-394856J | IC LC8992 |
| 95 | EI-401050J | IC LV4523SA2 |
| 96 | EI-389622J | IC L5631 |
| 97 | EI-387019J | IC MC1377P |
| 98 | EI-410486J | IC MN675201 XDN JHXSYP1 |
| 99 | EI-408434J | IC MV1815-1BA |
| 100 | EI-408408J1 | IC M50933-128FP JXLCDR2 |
| 101 | EI-393233J | IC M5218AL-771 |
| 102 | EI-400672J | IC S-8052ALB-L E |
| 103 | EI-373955 | IC S-8052ALR |
| 104 | EI-386958J | IC SA44700 |
| 105 | EI-397560J | IC SAA7322GP |
| 106 | EI-405224J | IC ST24C02 |
| 107 | EI-397123J | IC TA8703S |
| 108 | EI-330391 | IC TC4050BP |
| 109 | EI-310036 | IC TC4066BP |
| 110 | EI-408930J | IC TD88732 |
| 111 | EI-405722J | IC UPD6450CX-515 |
| 112 | EI-408449J | IC UPD75004GB-771 JXVPT1 QF |
| 113 | EI-410125J | IC V53C464AP-80 |
| 114 | EI-394467J | IC X24C01P |
| 115 | EI-403451J | OSC CE CSB1200J 1.200MHZ |
| 116 | EI-408450J | OSC CE CST2.45MGW 2.450MHZ |
| 117 | EI-373957J1 | OSC CE CST4.19MGW 4.194MHZ |
| 118 | EI-368825M | OSC XTAL C-002PX 32.768KHZ |
| 119 | EI-716825 | OSC XTAL DT-38 32.768KHZ |
| 120 | EI-408433J | OSC XTAL HC-49/U 27750KHZ |
| 121 | EI-408933J | OSC XTAL HC-49/U 11648KHZ |
| 122 | EI-408932J | OSC XTAL HC-49/U 11700KHZ [EOH-N] |
| 123 | EI-408931J | OSC XTAL HC-49/U 13104KHZ [EK-N] |
| 124 | EI-389974J | OSC XTAL HC-49/U 17.734475MHZ |
| 125 | EI-389640J | OSC XTAL HC-49/U 8000KHZ |
| 126 | EI-394673J | OSC XTAL HC-49/U 8867.238KHZ |
| 127 | EI-403347J | OSC XTAL NR-18-S 16.384MHZ |
| 128 | EI-381632J | OSC XTAL 86686 4.433619MHZ |
| 129 | EJ-408427J | CONNECTOR LCD (4) B1043 |
| 130 | EM-403369J | IND FL FV508G CHARACTER [EA,EO,EOG] |
| 131 | EM-408462J | IND FL FV563G CHARACTER [EK,EOH] |
| 132 | EM-408437J | IND LCD LD-B5444A ENGLISH |
| 133 | EO-376612 | COIL FIX 1 LF-5.0S F05 680K |
| 134 | *ER-331188 | R FUSE H S10 ERD2FC 1/4W BR2J |

| Ref.No. | Part No. | Description |
|---------|---------------|--------------------------------------|
| 135 | *ER-393222J | R FUSE H S10 RF25S 1/4W 100J |
| 136 | *ER-400688J | R FUSE V T05 RF25SCVTP1/4WR10K |
| 137 | *ER-397385J | R FUSE V T05 RF25SCVTP1/4WR20K |
| 138 | *ER-336756 | R OMF H FS 1W R47J |
| 139 | *ER-383007J | R OMF H S12 FS 1W 1R0J |
| 140 | ES-373099 | SW LEAF MTS10110MPC1 |
| 141 | ES-387465J | SW MODE SELECT MMS00070ZLBO [SW1] |
| 142 | ES-408429J | SW ROTARY ENCODER SRGPQJ |
| 143 | ES-393431J | SW TACT CHIP SKHUAB T12E |
| 144 | ES-732664J | SW TACT SKHVBK |
| 145 | ET-381637J2 | DETECTOR GP1U521X |
| 146 | ET-719669 | TR CHIP DTA114EK |
| 147 | ET-716956 | TR CHIP DTA144EK |
| 148 | ET-730132J | TR CHIP DTA144TK |
| 149 | ET-731437J | TR CHIP DTC114EK |
| 150 | ET-732687J | TR CHIP DTC124TK |
| 151 | ET-732638J | TR CHIP DTC144EK |
| 152 | ET-732644J | TR CHIP DTC144TK |
| 153 | ET-732640J | TR CHIP 2SC2412K |
| 154 | ET-725820J | TR CHIP 2SC2735J |
| 155 | ET-356336 | TR DTA114ES |
| 156 | ET-354415 | TR DTA144ES |
| 157 | ET-373985 | TR DTA144TS |
| 158 | ET-353897 | TR DTC114ES |
| 159 | ET-360399 | TR DTC114TS |
| 160 | ET-354371 | TR DTC124ES |
| 161 | ET-364060 | TR DTC143ES |
| 162 | ET-354414 | TR DTC144ES |
| 163 | ET-370310 | TR DTC144TS |
| 164 | ET-356236 | TR FET 2SK363 GR,BL [EOH] |
| 165 | ET-361490 | TR PHOTO PN268 [PTR1] |
| 166 | ET-390010J | TR PHOTO PT4800 [PTR2][PTR3] |
| 167 | ET-390009J | TR PHOTO PT493F [PTR4] |
| 168 | ET-364040 | TR UN421D |
| 169 | ET-732639J | TR 2SA1037K |
| 170 | ET-730419J | TR 2SA1235 E,F |
| 171 | ET-356224 | TR 2SA1286 G,H,J F05 |
| 172 | ET-353899 | TR 2SA1317 S,T,U |
| 173 | *ET-366365 | TR 2SB1185 E,F |
| 174 | ET-388338J | TR 2SB1425 S,E |
| 175 | ET-375777 | TR 2SC2926S P,Q |
| 176 | ET-364153 | TR 2SC3246 JK F05 |
| 177 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| 178 | ET-354083 | TR 2SD1189 Q,R |
| 179 | ET-366168 | TR 2SD1292 Q,R |
| 180 | ET-380685J | TR 2SD1761 E,F,G |
| 181 | *ET-405622J | TR 2SD2061 E,F |
| 182 | ET-370819 | TR.CHIP 2SC3052 |
| 183 | ET-405342J | TR.CHIP 2SD1620 |
| 184 | EV-732666J | VR ROTARY RK09K113C203 |
| 185 | HE-390013J | HEAD E HVFME0020A |
| 186 | HR-405340J | HEAD COMBO HVMZA1121A |
| 187 | MB-387289J | BELT CAPSTAN |
| 188 | MI-387294J | IDLER PART |
| 189 | ML-391745J3 | ARM DAMPER |
| 190 | ML-387350J1 | ARM LID OPENER |
| 191 | ML-387277J3 | ARM REVIEW PART |
| 192 | ML-387402J1 | LEVER TRIGGER |
| 193 | ML-387316J | MAIN BRAKE (S) PART |
| 194 | ML-387318J | MAIN BRAKE (T) PART |
| 195 | ML-387321J | REVIEW BRAKE PART |
| 196 | ML-396018J1 | SLIDER BRAKE (2) PART |
| 197 | ML-404944J | SLIDER TRIGGER (2) |
| 198 | MP-404852J | PINCH ROLLER (2) PART |
| 199 | MR-387406J | HOLDER THRUST WORM |
| 200 | MR-391968J | PULLEY TRIGGER (2) |
| 201 | MR-387286J1 | ROLLER IMPEDANCE |
| 202 | MT-390954J1 | DISK (2) PART |
| 203 | MZ-387298J3 | DISK CLUTCH PART |
| 204 | MZ-396021J | GEAR CAM SLIDER (2) |
| 205 | MZ-387335J | GEAR EJECT |
| 206 | MZ-387333J | GEAR FRONT LOADING |
| 207 | MZ-V1102A090A | GEAR TOGGLE (S) BLK 425EA |
| 208 | MZ-V1102A100A | GEAR TOGGLE (T) BLK 425EA |
| 209 | MZ-387330J | GEAR WORM PART |
| 210 | MZ-387332J | GEAR WORM WHEEL |
| 211 | MZ-395471J3 | TENSION BRAKE PART |

PARTS LIST

23

HEAD DRUM BLOCK



2. HEAD DRUM BLOCK

| Ref.No. | Part No. | Description |
|---------|---------------|-------------------------------|
| 1 | BV-V1123A410C | LOWER DRUM BLK F600EA |
| 2 | BV-V1123A420C | UPPER DRUM BLK F600EA |
| 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 | VT-401282J | EARTH BRUSH PART |
| 14 | ZS-358936 | ST BID 30X06STL CMT |

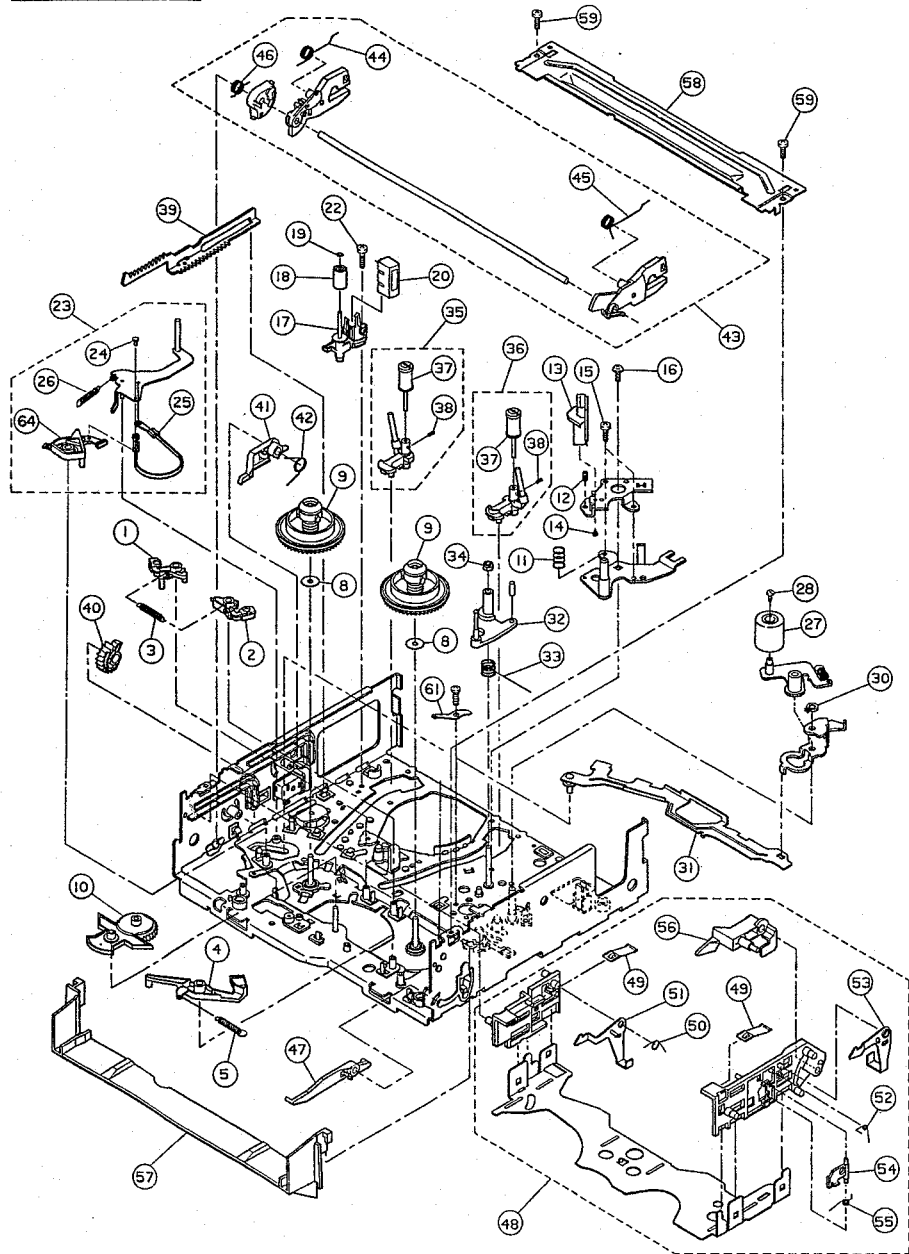
NOTE:

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.

PARTS LIST

24

MECHA BLOCK (1)



3. MECHA BLOCK (1)

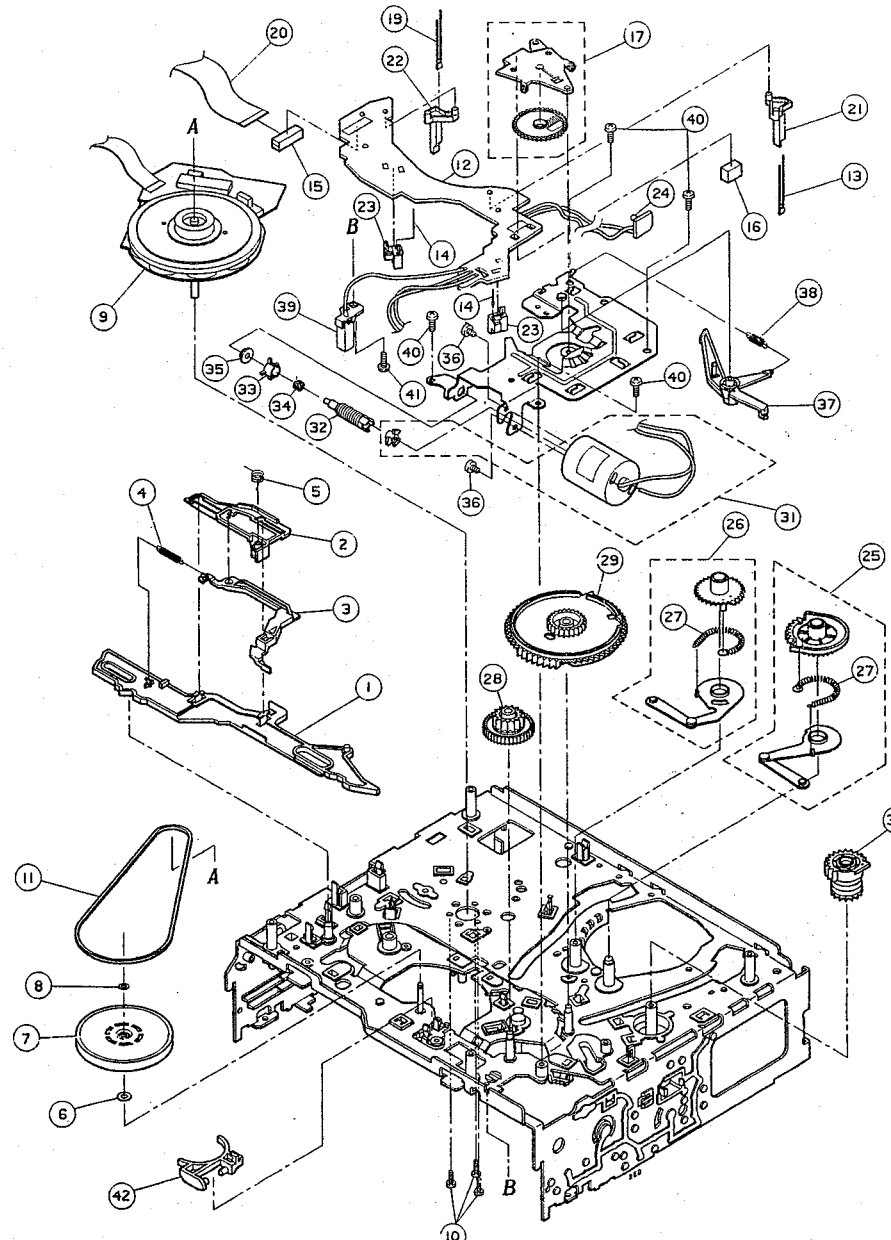
| Ref.No. | Part No. | Description |
|---------|---------------|--------------------------------|
| 1 | ML-387316J | MAIN BRAKE (S) PART |
| 2 | ML-387318J | MAIN BRAKE (T) PART |
| 3 | ZG-387320J | SP PULL MAIN BRAKE |
| 4 | ML-387321J | REVIEW BRAKE PART |
| 5 | ZG-387323J | SP PULL REVIEW BRAKE |
| 8 | ZW-389814J | PW31X110X050PSL |
| 9 | MT-390954J1 | DISK (2) PART |
| 10 | MI-387294J | IDLER 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-344754 | ST PAN30X06STL CMT C080 |
| 17 | MZ-407375J | HOLDER FE HEAD (2) PART |
| 18 | MFR-387286J1 | ROLLER IMPEDANCE |
| 19 | ZW-374445 | SLIT W17X032X025PSL |
| 20 | HE-390013J | HEAD E HVFME0020A |
| 22 | ZS-396714 | ST BID30X12STL CMT |
| 23 | BL-V1123A050A | TENSION ARM BLK F600EA |
| 24 | SZ-387263J4 | HOLDER LEVER TENSION |
| 25 | ML-390768J4 | TENSION BAND PART |
| 26 | ZG-385470J | SP PULL TENSION (2) |
| 27 | MP-404852J | PINCH ROLLER (2) PART |
| 28 | ZS-464703 | BID20X04STL CMT |
| 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-406134J | PLATE UPPER (2) |
| 59 | ZS-358936 | ST BID30X06STL CMT |
| 61 | ZG-392294J | SP PLATE EARTH |
| 64 | MZ-395471J3 | TENSION BRAKE PART |
| 65 | BB-V1130A020J | MECHA DECK BLK F300EA |

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.

4. MECHA BLOCK (2)

MACHA BLOCK (2)

| Ref.No. | Part No. | Description |
|---------|---------------|---------------------------------------|
| 1 | ML-396018J1 | SLIDER BRAKE (2) 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-389926J | PW20X060X050P6L |
| 7 | MZ-387298J3 | DISK CLUTCH PART |
| 8 | ZW-387492J | SLIT W/21X040X050P6L |
| 9 | BM-400682J1 | MOTOR DFX-6783VWB1 [CAPSTAN MOTOR] |
| 10 | ZS-365149 | PT BID26X06STL CMT |
| 11 | MB-387289J | BELT CAPSTAN |
| 12 | EA-387496J | PC (#) SENSOR |
| 13 | ED-390011J | D LED GL451 INFRARED [D1] |
| 14 | ED-390012J | D LED GL4800 INFRARED [D2][D3] |
| 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] |
| 18 | ET-390010J | TR PHOTO PT4800 [PTR2][PTR3] |
| 19 | ET-390009J | TR PHOTO PT493F [PTR4] |
| 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-387446J | HOLDER PHOTO SENSOR |
| 24 | ET-361490 | TR PHOTO PN268 [PTR1] |
| 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-396021J | GEAR CAM SLIDER (2) |
| 30 | MZ-387333J | GEAR FRONT LOADING |
| 31 | BM-387503J | MOTOR PART [LOADING MOTOR] |
| 32 | MZ-387330J | GEAR WORM PART |
| 33 | MR-391968J | PULLEY TRIGGER (2) |
| 34 | ZG-387443J | SP TRIGGER |
| 35 | MR-387406J | HOLDER THRUST WORM |
| 36 | ZS-425991 | 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-364543 | DT BID30X06STL CMT |
| 42 | ML-387311J2 | ARM COUPLING |



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 |
|---------|---------------|---|
| 1A | BA-VA037A600A | PC (#) MAIN BLK F550EA-D |
| 1B | BA-VA037A600G | PC (#) MAIN BLK F550EO-D |
| 1C | BA-VA037A600C | PC (#) MAIN BLK F550EOH-D |
| 1D | BA-VA037A600E | PC (#) MAIN BLK F550EOH-N |
| 1E | BA-VA037A600B | PC (#) MAIN BLK F560EK-N |
| 1F | BA-VA037A600F | PC (#) MAIN BLK F580EOG-VD |
| 1G | BA-VA037A600D | PC (#) MAIN BLK F590EOH-DN |
| 2 | BA-VA037A610A | PC PRE AMP BLK F550EA-D |
| 3A | BA-VA037A630A | PC OPERATION BLK F550EA-D |
| 3B | BA-VA037A630G | PC OPERATION BLK F550EO-D |
| 3C | BA-VA037A630C | PC OPERATION BLK F550EOH-D |
| 3D | BA-VA037A630E | PC OPERATION BLK F550EOH-N |
| 3E | BA-VA037A630B | PC OPERATION BLK F560EK-N |
| 3F | BA-VA037A630F | PC OPERATION BLK F580EOG-VD |
| 3G | BA-VA037A630D | PC OPERATION BLK F590EOH-DN |
| 4A | BA-VA037A500A | PC POWER BLK F550EA-D [EA] |
| 4B | BA-VA037A500C | PC POWER BLK F550EOH-D [EO,EOH] |
| | BA-VA037A500B | PC POWER BLK F560EK-N [EK] |
| 4D | BA-VA037A500D | PC POWER BLK F580EOG-VD [EOG] |
| 5A | BA-VA037A650C | PC NICAM BLK F550EOH-N [EOH-N] |
| 5B | BA-VA037A650A | PC NICAM BLK F560EK-N [EK-N] |
| 5C | BA-VA037A650B | PC NICAM BLK F590EOH-DN [EOH-DN] |
| 6 | BA-VA037A660A | PC D-MULTI BLK F550EA-D [EA-D,EO-D,EOG-VD,EOH-D] |
| 7A | BA-VA037A720A | PC I/O BLK F550EA-D [EA] |
| 7B | BA-VA037A720E | PC I/O BLK F550EO-D [EO] |
| 7C | BA-VA037A720C | PC I/O BLK F550EOH-D [EOH] |
| 7D | BA-VA037A720B | PC I/O BLK F560EK-N [EK] |
| 7E | BA-VA037A720D | PC I/O BLK F580EOG-VD [EOG] |

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

- MAIN P.C BOARD
- SERVO/SYSCON P.C BOARD
- VIF UNIT

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

- POWER SUPPLY P.C BOARD
- I-HQ P.C BOARD

6. MAIN P.C BOARD

| Ref.No. | Part No. | Description |
|---------|------------|---|
| C701 | EC-732653J | C DBL LAYER AC310-502G 473Z 5R5 |
| D2 | ED-387765J | D ZENER H HZS9C1L |
| D3 | ED-307572 | D SILICON H 1SS131 |
| D4 | ED-307572 | D SILICON H 1SS131 |
| D5 | ED-307572 | D SILICON H 1SS131 [EXCEPT EK] |
| D6 | ED-387919J | D ZENER H HZS6A1L |
| D7 | ED-367502 | D ZENER H HZS9A1L [EOH] |
| D8 | ED-307572 | D SILICON H 1SS131 [EOH] |
| D9 | ED-307572 | D SILICON H 1SS131 [EO,EOG] |
| D10 | ED-307572 | D SILICON H 1SS131 [EO,EOG] |
| D11 | ED-307572 | D SILICON H 1SS131 |
| D15 | ED-378530J | D ZENER H HZS6B2L [EOH] |
| D101 | ED-386226J | D SCHOTTKY RB100AT-32T26 40/1 |
| D102 | ED-307572 | D SILICON H 1SS131 |
| D103 | ED-307572 | D SILICON H 1SS131 |
| D104 | ED-378530J | D ZENER H HZS6B2L |
| D105 | ED-388368J | D ZENER H HZS9B3L |
| D106 | ED-307572 | D SILICON H 1SS131 |
| D201 | ED-307572 | D SILICON H 1SS131 |
| D202 | ED-307572 | D SILICON H 1SS131 |
| D301 | ED-397399J | D ZENER H HZS3C3 |
| D302 | ED-307572 | D SILICON H 1SS131 |
| D303 | ED-307572 | D SILICON H 1SS131 |
| D304 | ED-307572 | D SILICON H 1SS131 |
| D305 | ED-307572 | D SILICON H 1SS131 |
| D306 | ED-307572 | D SILICON H 1SS131 |
| D307 | ED-307572 | D SILICON H 1SS131 |
| D308 | ED-307572 | D SILICON H 1SS131 |
| D309 | ED-365699 | D ZENER H HZS5.6B1J |
| D310 | ED-307572 | D SILICON H 1SS131 |
| D311 | ED-388368J | D ZENER H HZS9B3L |
| D312 | ED-307572 | D SILICON H 1SS131 |
| D700 | ED-397399J | D ZENER H HZS3C3 |
| D701 | ED-307572 | D SILICON H 1SS131 |
| D702 | ED-397233J | D ZENER H HZS5C3 |
| D703 | ED-397289J | D ZENER H HZS20-2 |
| D704 | ED-307572 | D SILICON H 1SS131 |
| D706 | ED-307572 | D SILICON H 1SS131 |
| D707 | ED-307572 | D SILICON H 1SS131 |
| D708 | ED-307572 | D SILICON H 1SS131 |
| D709 | ED-307572 | D SILICON H 1SS131 |
| D710 | ED-307572 | D SILICON H 1SS131 |
| D711 | ED-307572 | D SILICON H 1SS131 [EOG] |
| D712 | ED-307572 | D SILICON H 1SS131 [EOG] |
| D713 | ED-386086J | D ZENER H HZS30-2L [EOG] |
| D714 | ED-400171J | D ZENER H HZS6C2L [EOG] |
| D715 | ED-307572 | D SILICON H 1SS131 |
| DL201 | EH-730686J | DL FE-2247Q |
| FL101 | EH-732652J | FILTER LP SEL1026B1-P5E-5065-01 |
| FL102 | EH-394858J | FILTER LC LP MYV-2V2 |
| FL201 | EH-731166J | FILTER BLK SFBBL000F4E-0698-03 |
| FL251 | EH-366294 | FILTER CE SFE-4.16MB 4.16MHZ [EOG] |
| FL301 | EH-730145J | FILTER LP SFBBL000F5E-4174-03 |
| IC1 | EI-389622J | IC L5631 |
| IC2 | EI-390053J | IC LA7910 [EXCEPT EK] |
| IC101 | EI-396454J | IC AN3267K |
| IC102 | EI-394856J | IC LC8992 |
| IC201 | EI-394839J | IC LA7332 |
| IC251 | EI-366892 | IC BA7025L [EOG] |
| IC301 | EI-388360J | IC BA7765AS |
| IC302 | EI-394983J | IC BA7703K1 |
| IC303 | EI-364896 | IC BA6138 |
| IC700 | EI-405722J | IC UPD6450CX-515 |
| IC701 | EI-393323J | IC M5218AL-771 |
| L1 | EO-345893 | COIL FIX 1 EL0606SKI 471J [EO,EOG,EOH] |
| L102 | EO-732646J | COIL FIX 1 LF-7.5 101J |

PARTS LIST

| Ref.No. | Part No. | Description |
|---------|------------|---|
| L103 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L104 | EO-376611 | COIL FIX 1 LF-5.0S F05 470K |
| L105 | EO-376605 | COIL FIX 1 LF-5.0S F05 151K |
| L106 | EO-376599 | COIL FIX 1 LF-5.0S F05 100K |
| L107 | EO-376606 | COIL FIX 1 LF-5.0S F05 180K |
| L108 | EO-392801J | COIL FIX 1 LF-7.5 F10 2R2M |
| L109 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K |
| L110 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L111 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L112A | EO-380734J | COIL FIX 1 LF-5.0S F05 6R8K [EOH] |
| L112B | EO-403937J | COIL FIX 1 EL0405RA T05 4R7J [EOG] |
| L113 | EO-376614 | COIL FIX 1 LF-5.0S F05 220K [EOG] |
| L201 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K |
| L202 | EO-376601 | COIL FIX 1 LF-5.0S F05 120K [EXCEPT EK] |
| L203 | EO-388353J | COIL FIX 1 LF-5.0S F05 471K |
| L204 | EO-388080J | COIL FIX 1 LF-5.0S F05 331K |
| L205 | EO-376661 | COIL FIX 1 LF-5.0S F05 390K |
| L206 | EO-376603 | COIL FIX 1 LF-5.0S F05 150K |
| L207 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K |
| L208 | EO-376606 | COIL FIX 1 LF-5.0S F05 180K |
| L209 | EO-381135J | COIL FIX 1 LF-7.5 F10 4R7K |
| L210 | EO-732651J | COIL FIX 1 LE-7.5 1R2 |
| L211 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K |
| L212 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K [EOG] |
| L301 | EO-387987J | COIL FIX 1 EL0607SKI F05 103K |
| L302 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L303 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L304 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L305 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L306 | EO-376610 | COIL FIX 1 LF-5.0S F05 330K |
| L307 | EO-732647J | COIL FIX 1 EL0607RA 272K |
| L700 | EO-376880 | COIL FIX 1 LF-5.0S F05 820K |
| L701 | EO-376510 | COIL FIX 1 LF-5.0S F05 330K |
| L702 | EO-376806 | COIL FIX 1 LF-5.0S F05 180K |
| L704 | EO-376860 | COIL FIX 1 LF-5.0S F05 820K [EXCEPT EK] |
| L705 | EO-392800J | COIL FIX 1 LF-7.5 F10 820K |
| MD1A | BV-732641J | RF CONVERTER MDLK5S160A [EA] |
| MD1B | BV-732642J | RF CONVERTER MDLK6B731A [EK] |
| MD1C | BV-732643J | RF CONVERTER MDLK6D748A [EO,EOG,EOH] |
| Q1 | ET-353899 | TR 25A1317 S,T,U |
| Q3 | ET-364153 | TR 25C3246 J,K P,Q |
| Q4 | ET-375777 | TR 25C2926S P,Q |
| Q5 | ET-353899 | TR 25A1317 S,T,U |
| Q6 | ET-732639J | TR 25A1037K |
| Q7 | ET-732640J | TR CHIP 25C2412K |
| Q8 | ET-353899 | TR 25A1317 S,T,U [EXCEPT EOH] |
| Q9 | ET-732687J | TR CHIP DTC124TK |
| Q10 | ET-356236 | TR FET 25K363 GR,BL [EOH] |
| Q11 | ET-732640J | TR CHIP 25C2412K [EOH] |
| Q12 | ET-732639J | TR 25A1037K |
| Q13 | ET-732640J | TR CHIP 25C2412K |
| Q14 | ET-732640J | TR CHIP 25C2412K |
| Q101 | ET-354414 | TR DTC144ES |
| Q102 | ET-354414 | TR DTC144ES |
| Q103 | ET-716956 | TR CHIP DTA144EK |
| Q105 | ET-354414 | TR DTC144ES |
| Q106 | ET-354414 | TR DTC144ES |
| Q107 | ET-384040 | TR UN421D |
| Q108 | ET-370310 | TR DTC144TS |
| Q109 | ET-386168 | TR 2SD1292 Q,R |
| Q110 | ET-353899 | TR 25A1317 S,T,U |
| Q111 | ET-354371 | TR DTC124ES |
| Q112 | ET-356224 | TR 25A1286 G,H,J F05 |
| Q129 | ET-354415 | TR DTA144ES |
| Q130 | ET-354415 | TR DTA144ES |
| Q201 | ET-354415 | TR DTA144ES [EO,EOG,EOH] |
| Q202 | ET-354414 | TR DTC144ES [EO,EOG,EOH] |
| Q203 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q204 | ET-397160J | TR 25C3330 R,S,T,U,V |

PARTS LIST

| Ref.No. | Part No. | Description |
|---------|-------------|-------------------------------|
| Q205 | ET-353899 | TR 25A1317 S,T,U |
| Q206 | ET-353897 | TR DTC114ES |
| Q207 | ET-353897 | TR DTC114ES |
| Q208 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q209 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q210 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q211 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q212 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q213 | ET-353899 | TR 25A1317 S,T,U |
| Q214 | ET-370310 | TR DTC144TS |
| Q215 | ET-370310 | TR DTC144TS |
| Q251 | ET-397160J | TR 25C3330 R,S,T,U,V [EOG] |
| Q252 | ET-397160J | TR 25C3330 R,S,T,U,V [EOG] |
| Q253 | ET-353897 | TR DTC114ES [EOG] |
| Q254 | ET-353897 | TR DTC114ES [EOG] |
| Q301 | ET-360399 | TR DTC114TS [EK,EOH-DN/N] |
| Q302 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q303 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q304 | ET-354414 | TR DTC144ES |
| Q305 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q306 | ET-353899 | TR 25A1317 S,T,U |
| Q307 | ET-353897 | TR DTC114ES |
| Q308 | ET-356336 | TR DTA114ES |
| Q309 | ET-360399 | TR DTC114TS |
| Q310 | ET-360399 | TR DTC114TS |
| Q311 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q312 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q313 | ET-353897 | TR DTC114ES |
| Q314 | ET-356336 | TR DTA114ES |
| Q315 | ET-360399 | TR DTC114TS |
| Q316 | ET-360399 | TR DTC114TS |
| Q317 | ET-366168 | TR 2SD1292 Q,R |
| Q700 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q701 | ET-719669 | TR CHIP DTA114EK |
| Q702 | ET-380685J | TR 2SD1761 E,F,G |
| Q703 | ET-719669 | TR CHIP DTA114EK [EO,EOG,EOH] |
| Q704 | ET-719669 | TR CHIP DTA114EK [EO,EOG,EOH] |
| Q705 | ET-366168 | TR 2SD1292 Q,R |
| Q706 | ET-732640J | TR CHIP 25C2412K |
| Q707 | ET-732640J | TR CHIP 25C2412K |
| Q708 | ET-353899 | TR 25A1317 S,T,U |
| Q709 | ET-354414 | TR DTC144ES |
| Q710 | ET-732640J | TR CHIP 25C2412K |
| Q711 | ET-732640J | TR CHIP 25C2412K [EXCEPT EK] |
| Q712 | ET-366168 | TR 2SD1292 Q,R [EOG] |
| Q713 | ET-732639J | TR 25A1037K |
| Q714 | ET-732640J | TR CHIP 25C2412K [EXCEPT EA] |
| Q715 | ET-356336 | TR DTA114ES [EOG] |
| Q716 | ET-732638J | TR CHIP DTC144EK [EOG] |
| Q718 | ET-732638J | TR CHIP DTC144EK |
| Q719 | ET-732639J | TR 25A1037K |
| Q720 | ET-353899 | TR 25A1317 S,T,U |
| Q721 | ET-732640J | TR CHIP 25C2412K [EXCEPT EA] |
| R500 | ER-383007J | R OMF H S12 FS 1W 1R0J |
| R513 | *ER-383007J | R OMF H S12 FS 1W 1R0J |
| R555 | *ER-336756 | R OMF H FS 1W R47J |
| T301 | EO-388362J | COIL OSC 1 V1102 |
| TU1A | EE-730156J | TV TUNER TERS1-009A [EA] |
| TU1B | EE-732655J | TV TUNER EC-CK-0734 [EK] |
| TU1C | EE-730153J | TV TUNER TERE1-028A [EO] |
| TU1D | EE-730157J | TV TUNER TERE3-007A [EOH] |
| TU1E | EE-732654J | TV TUNER TERE1-025B [EOG] |
| VIF1A | BV-732657J | VIF UNIT KHX EA [EA] |

| Ref.No. | Part No. | Description |
|---------|------------|----------------------------------|
| VIF1B | BV-732658J | VIF UNIT KHX EK [EK] |
| VIF1C | BV-732662J | VIF UNIT KHX EOG [EO,EOG] |
| VIF1D | BV-732660J | VIF UNIT KHX EOH [EOH-D] |
| VIF1E | BV-732661J | VIF UNIT KHX EOH-DN/N [EOH-DN/N] |
| VC701 | EC-732825J | C S-FIX ECR-LA030E 53R |
| VL251 | EO-726188J | COIL 21D6 8R2 [EOG] |
| VR101 | EV-732503J | R S-FIX H RH0636C 153 |
| VR102 | EV-732503J | R S-FIX H RH0636C 153 |
| VR103 | EV-732500J | R S-FIX H RH0636C 472 |
| VR104 | EV-732501J | R S-FIX H RH0636C 682 |
| VR105 | EV-732499J | R S-FIX H RH0636C 332 |
| VR106 | EV-732502J | R S-FIX H RH0636C 103 |
| VR301 | EV-732500J | R S-FIX H RH0636C 472 |
| VR302 | EV-732648J | R S-FIX H RH0636C 473 |
| VR303 | EV-732649J | R S-FIX H RH0636C 223 |
| VR304 | EV-732502J | R S-FIX H RH0636C 103 |
| VR305 | EV-732502J | R S-FIX H RH0636C 103 |
| VR306 | EV-732502J | R S-FIX H RH0636C 103 |
| VR307 | EV-732649J | R S-FIX H RH0636C 223 |
| VR308 | EV-732503J | R S-FIX H RH0636C 153 |
| VR309 | EV-732503J | R S-FIX H RH0636C 153 |
| X201 | EI-381632J | OSC XTAL 86686 4.433619MHZ |
| X700 | EI-389974J | OSC XTAL HC-49/U 17.734475MHZ |

7. SERVO/SYSCON P.C BOARD

| Ref.No. | Part No. | Description |
|---------|-------------|-----------------------------|
| D500 | ED-307572 | D SILICON H 1SS131 |
| D501 | ED-307572 | D SILICON H 1SS131 |
| D502 | ED-307572 | D SILICON H 1SS131 |
| D503 | ED-511907 | D SILICON 1M4002 100/1.0A |
| D504 | ED-624903 | D SILICON H 1S2473 |
| D505 | ED-307572 | D SILICON H 1SS131 |
| D506 | ED-307572 | D SILICON H 1SS131 |
| D507 | ED-307572 | D SILICON H 1SS131 |
| D508 | ED-307572 | D SILICON H 1SS131 |
| D509 | ED-388368J | D ZENER H HZ593BL |
| D510 | ED-387763J | D ZENER H HZ5783L |
| D511 | ED-307572 | D SILICON H 1SS131 |
| D512 | ED-307572 | D SILICON H 1SS131 |
| D513 | ED-307572 | D SILICON H 1SS131 |
| IC500 | EI-393786J | IC BA15218N |
| IC501 | EI-373980 | IC LA6358S |
| IC502 | EI-360586 | IC BA6229-U2 |
| IC503 | EI-410486J | IC MM675201 XDN JHXSYP1 |
| IC504 | EI-397299J | IC BU4052B |
| IC505 | EI-354640 | COIL FIX 1 LF-5.0S F05 101K |
| L500 | EO-376600 | COIL FIX 1 LF-7.5 F10 470K |
| L501 | EO-392799J | COIL FIX 1 LF-5.0S F05 101K |
| L502 | EO-376600 | COIL FIX 1 LF-5.0S F05 820K |
| L503 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L602 | EO-376600 | TR CHIP DTC144TK [EOH] |
| Q15 | ET-732644J | TR 25C3330 R,S,T,U,V |
| Q501 | ET-388368J | TR 25B1425 S,E |
| Q502 | ET-353899 | TR 25A1317 S,T,U |
| Q503 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q504 | ET-373985 | TR DTA144TS |
| Q505 | ET-373985 | TR DTA144TS |
| Q506 | ET-373985 | TR DTA144TS |
| Q507 | ET-354414 | TR DTC144ES |
| Q508 | ET-373985 | TR DTA144TS |
| Q509 | ET-354414 | TR DTC144ES |
| Q510 | ET-353899 | TR 25A1317 S,T,U |
| Q511 | ET-353899 | TR 25A1317 S,T,U |
| Q512 | ET-354414 | TR DTC144ES |
| Q514 | ET-397160J | TR 25C3330 R,S,T,U,V |
| Q515 | ET-353899 | TR 25A1317 S,T,U |
| Q516 | ET-388368J | TR 25B1425 S,E |
| Q517 | ET-353899 | TR 25A1317 S,T,U |
| R513 | *ER-383007J | R OMF H S12 FS 1W 1R0J |
| R555 | *ER-336756 | R OMF H FS 1W R47J |
| VR500 | EV-732504J | R S-FIX V RH0632C 473 |
| VR501 | EV-732645J | R S-FIX V RH0632C 333 |
| X500 | EI-389640J | OSC XTAL HC-49/U 8000KHZ |

8. VIF UNIT (EA)

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------|
| CF1 | EH-373916 | FILTER CE SAF36.9M270Z |
| CF2 | EH-388948 | FILTER CE TP55.5MW 5.0000MHZ |
| CF4 | EH-732529J | FILTER SAW SAF31.4MC70Z |
| IC1 | EI-729997J | IC LA7575 |
| L3 | EO-381188J | COIL FIX 1 EL0405SKI 1R0K |
| L4 | EO-382817J | COIL FIX 1 EL0405SKI 1R2K |
| L6 | EO-388160J | COIL FIX 1 EL0405SKI 1R8K |
| L7 | EO-714616 | COIL RF 6F16115B3 |
| L8 | EO-732526J | COIL OSC 6F16403A2 |
| L9 | EO-387781J | COIL FIX 1 EL0405SKI 120K |
| L10 | EO-381196J | COIL FIX 1 EL0405SKI 470K |
| Q1 | ET-725820J | TR CHIP 25C2735J |
| Q6 | ET-370819 | TR CHIP 25C3052 |
| VR1 | EV-405665J | R S-FIX H T05 KVSF637T 0.1W333 |

PARTS LIST

15. I/O P.C BOARD (EA)

| Ref.No. | Part No. | Description |
|---------|------------|-----------------------------|
| D1 | ED-307572 | D SILICON H 1SS131 |
| D2 | ED-307572 | D SILICON H 1SS131 |
| D4 | ED-73270J | D SILICON CHIP DA204K |
| D5 | ED-73270J | D SILICON CHIP DA204K |
| IC1 | EJ-310036 | IC TC4068BP |
| PJ1 | EJ-389324J | PIN J YKB11-0178 1P |
| PJ2 | EJ-389325J | PIN J YKB11-0179 1P |
| PJ3 | EJ-389325J | PIN J YKB11-0179 1P |
| PJ4 | EJ-389324J | PIN J YKB11-0178 1P |
| PJ6 | EJ-389323J | PIN J YKB11-0180 1P |
| PJ7 | EJ-389323J | PIN J YKB11-0180 1P |
| L2 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| Q1 | ET-732640J | TR CHIP 2SC2412K |
| Q2 | ET-732640J | TR CHIP 2SC2412K |
| Q3 | ET-731437J | TR CHIP DTC114EK |
| Q4 | ET-731437J | TR CHIP DTC114EK |
| Q5 | ET-732639J | TR 2SA1037K |
| Q9 | ET-719669 | TR CHIP DTA114EK |
| Q10 | ET-731437J | TR CHIP DTC114EK |
| Q15 | ET-732640J | TR CHIP 2SC2412K |

16. I/O P.C BOARD (EK,EO,EOG,EOH)

| Ref.No. | Part No. | Description |
|---------|------------|-----------------------------|
| D1 | ED-307572 | D SILICON H 1SS131 |
| D2 | ED-307572 | D SILICON H 1SS131 |
| D3 | ED-388368J | D ZENER H HZS95BL |
| D4 | ED-73270J | D SILICON CHIP DA204K |
| D5 | ED-73270J | D SILICON CHIP DA204K |
| IC1 | EI-310036 | IC TC4068BP |
| IC2 | EI-310036 | IC TC4068BP |
| PJ1 | EJ-389324J | PIN J YKB11-0178 1P |
| PJ2 | EJ-389325J | PIN J YKB11-0179 1P |
| PJ3 | EJ-389980J | PIN J YKB11-0176 WHITE 1P |
| PJ4 | EJ-389979J | PIN J YKB11-0175 RED 1P |
| PJ5 | EJ-389864J | SOCKET M1817 21P |
| PJ6 | EJ-389914J | PIN J YKB11-0177 YELLOW 1P |
| L1 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| L2 | EO-376600 | COIL FIX 1 LF-5.0S F05 101K |
| Q1 | ET-732640J | TR CHIP 2SC2412K |
| Q2 | ET-732640J | TR CHIP 2SC2412K |
| Q3 | ET-731437J | TR CHIP DTC114EK |
| Q4 | ET-731437J | TR CHIP DTC114EK |
| Q5 | ET-732639J | TR 2SA1037K |
| Q6 | ET-732640J | TR CHIP 2SC2412K |
| Q7 | ET-719669 | TR CHIP DTA114EK |
| Q8 | ET-731437J | TR CHIP DTC114EK |
| Q9 | ET-719669 | TR CHIP DTA114EK |
| Q10 | ET-731437J | TR CHIP DTC114EK |
| Q11 | ET-356336 | TR DTA114ES |
| Q12 | ET-732640J | TR CHIP 2SC2412K |
| Q13 | ET-732639J | TR 2SA1037K |
| Q14 | ET-732640J | TR CHIP 2SC2412K |
| Q15 | ET-732640J | TR CHIP 2SC2412K |

17. D-MULTI P.C BOARD (EA,EO,EOG,EOH-D)

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------|
| FL1 | EH-712604 | FILTER CE SFT5.74MA |
| FL2 | EH-394948J | FILTER CE SFT5.5MA |
| IC1 | EI-394949J | IC IR3P72 |
| L1 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| T1 | EO-732670J | COIL SIF DET 6F16412A1 |
| T2 | EO-732671J | COIL SIF DET 6F16411A1 |
| VR1 | EV-404298J | R S-FIX H T05 KVSF637T 0.1W222 |
| VR2 | EV-405658J | R S-FIX H T05 KVSF637T 0.1W223 |
| VR3 | EV-356372 | R S-FIX H RH0615C 0.10W 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 |

18. NICAM P.C BOARD (EK,EOH-N)

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------|
| D1 | ED-394936J | D VARACTOR 1SV111 |
| D2 | ED-724694J | D SILICON CHIP MC2838 |
| D3 | ED-394936J | D VARACTOR 1SV111 |
| D4 | ED-394936J | D VARACTOR 1SV111 |
| IC1 | EI-408930J | IC TDA8732 |
| IC2 | EI-394937J | IC CF70124 |
| IC3 | EI-397560J | IC SAA7322GP |
| IC4 | EI-393323J | IC M5218AL-771 |
| L1 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L2 | EO-384903J | COIL FIX 1 EL0405SKI 102K |
| L3 | EO-384903J | COIL FIX 1 EL0405SKI 102K |
| L4 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L5 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L6 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L7 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L8 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L9 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| Q1 | ET-370819 | TR.CHIP 2SC3052 |
| Q2 | ET-370819 | TR.CHIP 2SC3052 |
| Q3 | ET-370819 | TR.CHIP 2SC3052 |
| Q4 | ET-370819 | TR.CHIP 2SC3052 |
| Q5 | ET-732644J | TR CHIP DTC144TK |
| Q6 | ET-370819 | TR.CHIP 2SC3052 |
| Q7 | ET-370819 | TR.CHIP 2SC3052 |
| Q8 | ET-732644J | TR CHIP DTC144TK |
| Q9 | ET-730132J | TR CHIP DTA144TK |
| T1A | EH-732668J | FILTER BPF H316 BQKS-2982QDD |
| T1B | EH-732669J | FILTER BPF TH316 BQM-2110QDADF |
| VC1 | EC-729779J | C S-FIX H TZ03T200FR |
| X1A | EI-408932J | OSC XTAL HC-49/U 11700KHZ |
| X1B | EI-408931J | OSC XTAL HC-49/U 13104KHZ |
| X2 | EI-408933J | OSC XTAL HC-49/U 11648KHZ |
| X3 | EI-403347J | OSC XTAL NR-18-S 16.384MHZ |

19. NICAM P.C BOARD (EOH-DN)

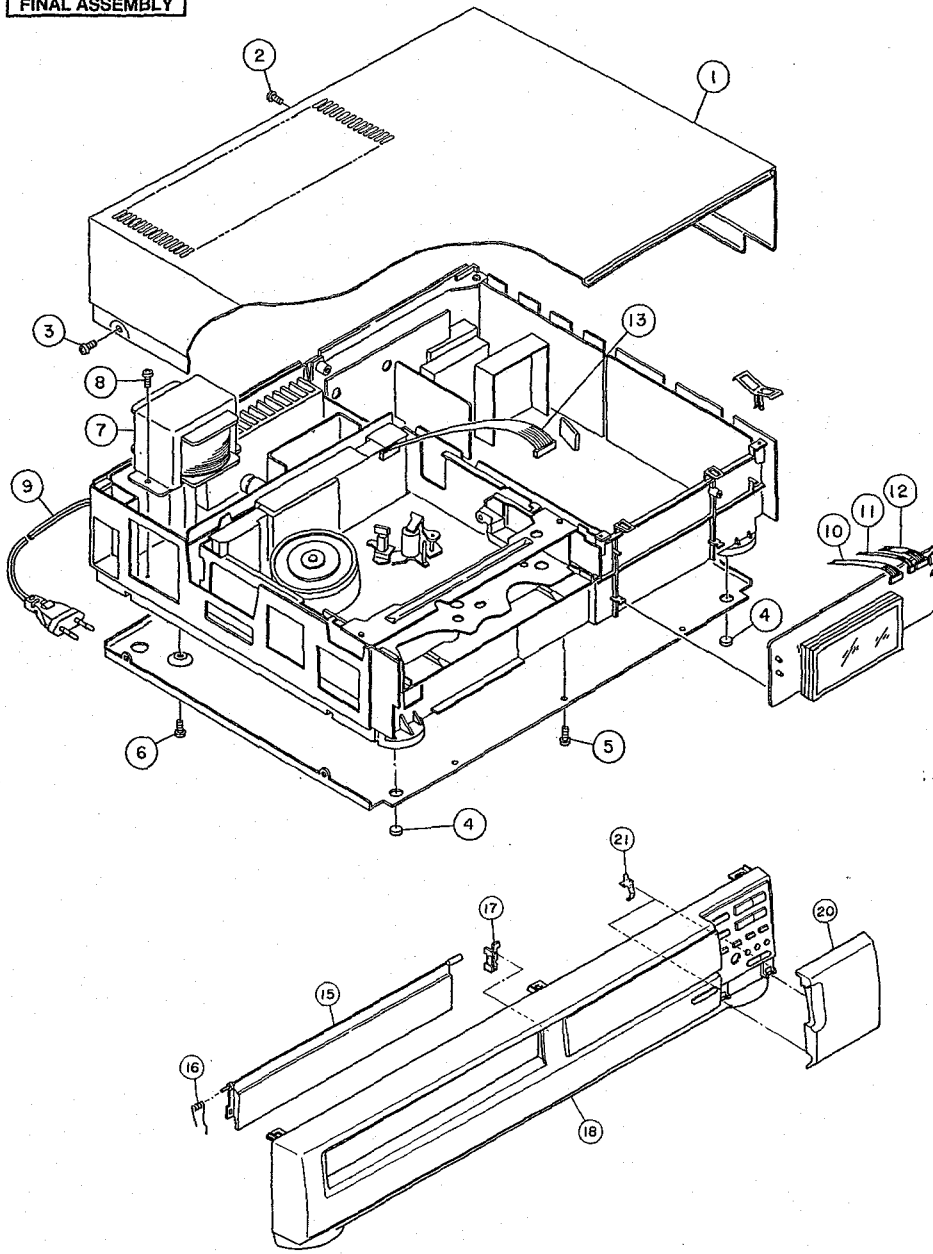
| Ref.No. | Part No. | Description |
|---------|------------|------------------------------|
| D1 | ED-394936J | D VARACTOR 1SV111 |
| D2 | ED-724694J | D SILICON CHIP MC2838 |
| D3 | ED-394936J | D VARACTOR 1SV111 |
| D4 | ED-394936J | D VARACTOR 1SV111 |
| FL101 | EH-394947J | FILTER CE SFT5.74MA |
| FL102 | EH-394948J | FILTER CE SFT5.5MA |
| IC1 | EI-408930J | IC TDA8732 |
| IC2 | EI-394937J | IC CF70124 |
| IC3 | EI-397560J | IC SAA7322GP |
| IC4 | EI-393323J | IC M5218AL-771 |
| IC101 | EI-394949J | IC IR3P72 |
| L1 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L2 | EO-384903J | COIL FIX 1 EL0405SKI 102K |
| L3 | EO-384903J | COIL FIX 1 EL0405SKI 102K |
| L4 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L5 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L6 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L7 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L8 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L9 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| L101 | EO-732646J | COIL FIX 1 LF-7.5 101J |
| Q1 | ET-370819 | TR.CHIP 2SC3052 |
| Q2 | ET-370819 | TR.CHIP 2SC3052 |
| Q3 | ET-370819 | TR.CHIP 2SC3052 |
| Q4 | ET-370819 | TR.CHIP 2SC3052 |
| Q5 | ET-732644J | TR CHIP DTC144TK |
| Q6 | ET-370819 | TR.CHIP 2SC3052 |
| Q7 | ET-370819 | TR.CHIP 2SC3052 |
| Q8 | ET-732644J | TR CHIP DTC144TK |
| Q9 | ET-730132J | TR CHIP DTA144TK |
| Q10 | ET-732644J | TR CHIP DTC144TK |
| Q11 | ET-370819 | TR.CHIP 2SC3052 |
| T1 | EH-732668J | FILTER BPF H316 BQKS-2982QDD |
| T101 | EO-732670J | COIL SIF DET 6F16412A1 |
| T102 | EO-732671J | COIL SIF DET 6F16411A1 |
| VC1 | EC-729779J | C S-FIX H TZ03T200FR |

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------|
| VR101 | EV-404298J | R S-FIX H T05 KVSF637T 0.1W222 |
| VR102 | EV-405658J | R S-FIX H T05 KVSF637T 0.1W223 |
| VR103 | EV-356372 | R S-FIX H RH0615C 0.10W 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 |
| X1 | EI-408932J | OSC XTAL HC-49/U 11700KHZ |
| X2 | EI-408933J | OSC XTAL HC-49/U 11648KHZ |
| X3 | EI-403347J | OSC XTAL NR-18-S 16.384MHZ |

20. VPST P.C BOARD (EOG ONLY)

| 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 |
| D601 | ED-307572 | D SILICON H 1SS131 |
| D602 | ED-405446J | D ZENER H UTZJ5.6B T26 |
| F101 | EH-394684J | FILTER EMI ZBF503D-00TA T05 |
| F102 | *ER-331188 | R FUSE H S10 ERD2FC 1/4W BR2J |
| IB101 | EH-383056J | COMP R RGL4X 103J |
| IB102 | EH-386637J | COMP R RGL8X 103J |
| IC101 | EI-408432J | IC UPD7521BCW-D12 JXVPT1 |
| IC102 | EI-405224J | IC ST24C02 |
| IC103 | EI-405224J | IC ST24C02 |
| IC104 | EI-408434J | IC MV1815-1BA |
| IC105 | EI-410125J | IC V53C484AP-80 |
| IC106 | EI-401050J | IC LVAS523SA2 |
| IC107 | EI-394690J | IC AN3171K |
| IC108 | EI-387019J | IC MC1377P |
| IC301 | EI-385958J | IC SAA4700 |
| 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-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 |
| TR1 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| TR101 | ET-354415 | TR DTA144ES |
| TR102 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| 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 |
| TR601 | ET-354083 | TR 2SD1189 Q,R |
| X101 | EI-373957J1 | OSC CE CST4.19MGW 4.194MHZ |
| X102 | EI-408433J | OSC XTAL HC-43/U 27750KHZ |
| X103 | EI-394673J | OSC XTAL HC-49/U 8667.238KHZ |

FINAL ASSEMBLY



PARTS LIST

21. FINAL ASSEMBLY

| Ref.No. | Part No. | Description |
|---------|---------------|--|
| 1 | SP-733275J | COVER UPPER VS-F550 |
| 2 | ZS-989865J | PLX BID26X08STL BNI |
| 3 | ZS-385611J | DT BID26X06STL BNI |
| 4 | SA-387507J | FOOT SX |
| 5 | ZS-361105 | PLX BID30X08STL BNI |
| 6 | ZS-391182 | BT BID30X08STL BNI |
| 7A | *BT-732677J | TRANS POW F510EK [EA,EK] |
| 7B | *BT-732678J | TRANS POW F510EO [EO,EOG,EOH] |
| 8 | ZS-565942 | T2PAN40X08STL CMT |
| 9A | *EW-385901M | AC CORD 200 SA-2 LDF B130 A S [EA] |
| 9B | *EW-389300J | AC CORD200 NRASBS LC2 B140 A B [EK] |
| 9C | *EW-385900M | AC CORD 200 SE-1H03VV B130 A E [EO,EOG,EOH] |
| 10 | EW-732684J | CORD FFC-K3 11P |
| 11 | EW-732685J | CORD FFC-K4 6P |
| 11 | EW-732683J | CORD FFC-K2 16P |
| 11 | EW-732686J | CORD FFC-K1 20P |
| 15A | SE-408301J | MASK CASSETTE (J) VS-F550 (E) |
| 15B | SE-408303J | MASK CASSETTE (J) VS-F560 (E) |
| 15C | SE-408304J | MASK CASSETTE (J) VS-F580 (G) |
| 15D | SE-408300J | MASK CASSETTE (J) VS-F590 (E) |
| 16 | ZG-387370J | SP MASK |
| 17 | SZ-732676J | STOPPER MASK |
| 18A | BD-VA037A300A | PANEL FRONT BLK F550EA-D |
| 18B | BD-VA037A300E | PANEL FRONT BLK F550EOH-N |
| 18C | BD-VA037A300B | PANEL FRONT BLK F560EK-N |
| 18D | BD-VA037A300F | PANEL FRONT BLK F580EOG-VD |
| 18E | BD-VA037A300D | PANEL FRONT BLK F590EOH-DN |
| 20A | SP-733271J | DOOR (F550-D) [EA,EO,EOG,EOH-D] |
| 20B | SP-733273J | DOOR (F550-N) [EK-N,EOH-N] |
| 20C | SP-733272J | DOOR (F590-DN) [EOH-DN] |
| 21 | ZG-386833J1 | SP PLATE DOOR (D) |

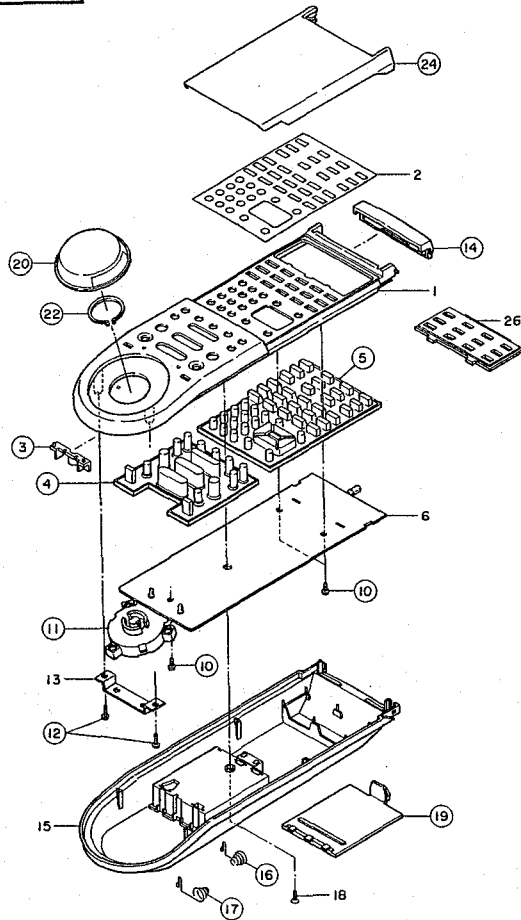
NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

22. ACCESSORY

| Ref.No. | Part No. | Description |
|---------|---------------|------------------------------------|
| 1 | EW-348414 | CORD PAL |
| 2A | AV-B1040A010A | REMOCN BLK RC-V551E [EK] |
| 2B | AV-B1040A010B | REMOCN BLK RC-V551G [EOG] |
| 2C | AV-B1043A010A | REMOCN BLK RC-V552E [EA,EO,EOH] |

PARTS LIST

REMOCON RC-V551E/551G



23. REMOCON RC-V551E/V551G

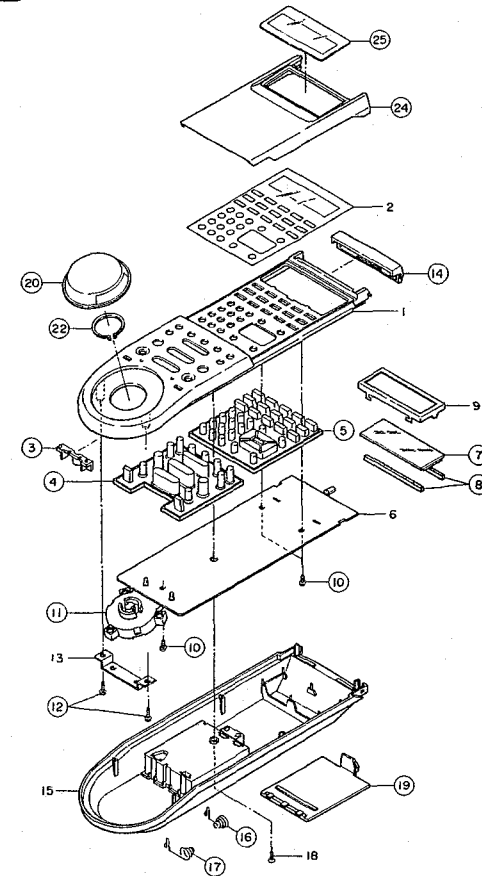
| Ref.No. | Part No. | Description |
|---------|------------|-----------------------------------|
| 3 | SE-407612J | LENS (V) |
| 4 | MB-407645J | KEY RUBBER (V1) |
| 5 | MB-407622J | KEY RUBBER (V2)-A |
| 10 | ZS-374389 | PT BID20X06STL BNI |
| 11 | ES-408429J | SW ROTARY ENCODER SRGPQJ |
| 12 | ZS-336614 | 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-407710J | KNOB SHUTTLE-R |
| 22 | SZ-408436J | RING C S-19 |
| 24A | SP-407629J | DOOR PANEL (V)-551E [RC-V551E] |
| 24B | SP-407628J | DOOR PANEL (V)-551G [RC-V551G] |

24. REMOCON P.C BOARD RC-V551

| 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) |

PARTS LIST

REMOCON RC-V552E



25. REMOCON RC-V552E

| 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-408429J | SW ROTARY ENCODER SRGPQJ |
| 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-407710J | KNOB SHUTTLE-R |
| 22 | SZ-408436J | RING C S-19 |
| 24 | SP-407636J | DOOR PANEL (W)-552E |
| 25 | SE-407613J | WINDOW DOOR (W) |

26. REMOCON P.C BOARD RC-V552E

| 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-366031J | D SILICON CHIP MA110-TW |
| D5 | ED-366031J | D SILICON CHIP MA110-TW |
| D6 | ED-366031J | D SILICON CHIP MA110-TW |
| D7 | ED-366031J | D SILICON CHIP MA110-TW |
| D8 | ED-366031J | D SILICON CHIP MA110-TW |
| D9 | ED-366031J | D SILICON CHIP MA110-TW |
| D10 | ED-366031J | D SILICON CHIP MA110-TW |
| D11 | ED-366031J | D SILICON CHIP MA110-TW |
| IC1 | EI-408408J | IC MS0933-128FP JXLCDR2 |
| IC2 | EI-400672J | IC S-8052ALB-LE |
| SW1 | ES-393431J | SW TACT CHIP SKHUAB T12E |
| TR1 | ET-405342J | TR.CHIP 2SD1620 |
| X1 | EI-388825M | OSC XTAL C-002RX 32.768KHZ |
| X2 | EI-403451J | OSC CE CSB1200J 1.200MHZ |
| 1 | ZG-407616J | TERMINAL BATTERY (V1) |
| 2 | ZG-407617J | TERMINAL BATTERY (V2) |

PARTS LIST

NOTE

ABBREVIATIONS (VIDEO)

| ABBREVIATION | EXPLANATION | ABBREVIATION | EXPLANATION |
|--------------|--------------------------------------|--------------|--------------------------------------|
| A | Audio or Analogue | MOD | MODulator |
| AC | Alternating Current | MRS | Motor Reverser |
| ACC | Automatic Color Control | NG | Noise Gate |
| A/C | Audio and Control | NICAM | Near Instantaneous Compand Audio |
| ADJ | ADJust (ment) | | Multiplex |
| AFC | Automatic Frequency Control | NON-LIN | NON-LINear |
| AFT | Automatic Fine Tuning | NT.S.C. | National Television System Committee |
| AGC | Automatic Gain Control | OSC | OSCillator |
| AH | Audio Head | PAL | Phase Alternation by Line |
| AL | ALways (voltage) | PB | Play Back |
| ALC | Automatic Level Control | PCB (P.C.B) | Printed Circuit Board |
| A-SWP | Audio SWitching Pulse | P-COM | Phase-COMparator |
| A-MUTE | Audio MUTE | P DOWN | Power DOWN |
| ANT | ANTenna | PG | Pulse Generator |
| APC | Automatic Phase Control | P.I.P | Picture In Picture |
| ASSY | ASSEMBLY | PL, PLG | PLunger (PLunGer) |
| BAL | BALance | PRG (PGM) | PRoGram (ProGrAm) |
| B DOWN | Break DOWN | PU | Pick UP (head, pulse) |
| BGP | Burst Gate Pulse | PWR | PoWeR |
| BLK | BLOCK or BLACK | Q | Quality factor |
| BPF | Band Pass Filter | R | Right |
| BU | Back Up (voltage) | RAM | Random Access Memory |
| B/W | Black and White | REC | RECORD |
| C | Chroma or Color | REF | REFerence |
| CCD | Charge Coupled Device | REF-V | REFerence Vertical signal |
| CCIR | Comité Consultatif International des | REG | REGulator |
| | Radio communications | REV (REVV) | 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 | SEquentiel Couleur A Mémoire |
| DEMOD | 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 Forward | 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 | | |

SERV. 670E

AKAI

MODEL **VS-F550**<sup>EA-D/EO-D/
EOH-D/N</sup>

MODEL **VS-F560**^{EK-N}

MODEL **VS-F580**^{EOG-VD}, **F590**^{EOH-DN}

SCHEMATIC DIAGRAMS AND PC BOARDS

TABLE OF CONTENTS

| | |
|---|----|
| I. BLOCK DIAGRAMS | |
| 1. OPERATION & SYSCON | 3 |
| 2. VIDEO | 4 |
| 3. AUDIO | 5 |
| 4. SERVO | 6 |
| 5. VS-F580EOG-V VPST/PDC | 7 |
| II. SCHEMATIC DIAGRAMS AND PC BOARDS | |
| 1. CONNECTION DIAGRAM | 9 |
| 2. POWER SUPPLY | 10 |
| 3. MAIN 1/3 | 12 |
| 4. MAIN 2/3 | 13 |
| 5. MAIN 3/3 | 14 |
| 6. SERVO/SYSCON | 16 |
| 7. PRE AMP | 19 |
| 8. OPERATION | 20 |
| 9. VS-F580EOG-VD VPST/PDC | 23 |
| 10. VS-F550EOH-N, F560EK-N, F590EOH-DN NICAM | 24 |
| 11. I/O | 26 |
| 12. VS-F550EA-D/EO-D/EOH-D, F580EOG-VD D.MULT | 29 |
| 13. VIF UNIT | 30 |
| 14. RC-V551E, V551G REMOTE CONTROL UNIT | 33 |
| 15. RC-V552E REMOTE CONTROL UNIT | 34 |
| III. INFORMATION OF ICs | 36 |

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

AKAI

MODEL **VS-F550**<sup>EA-D/EO-D/
EOH-D/N</sup>

MODEL **VS-F560**^{EK-N}

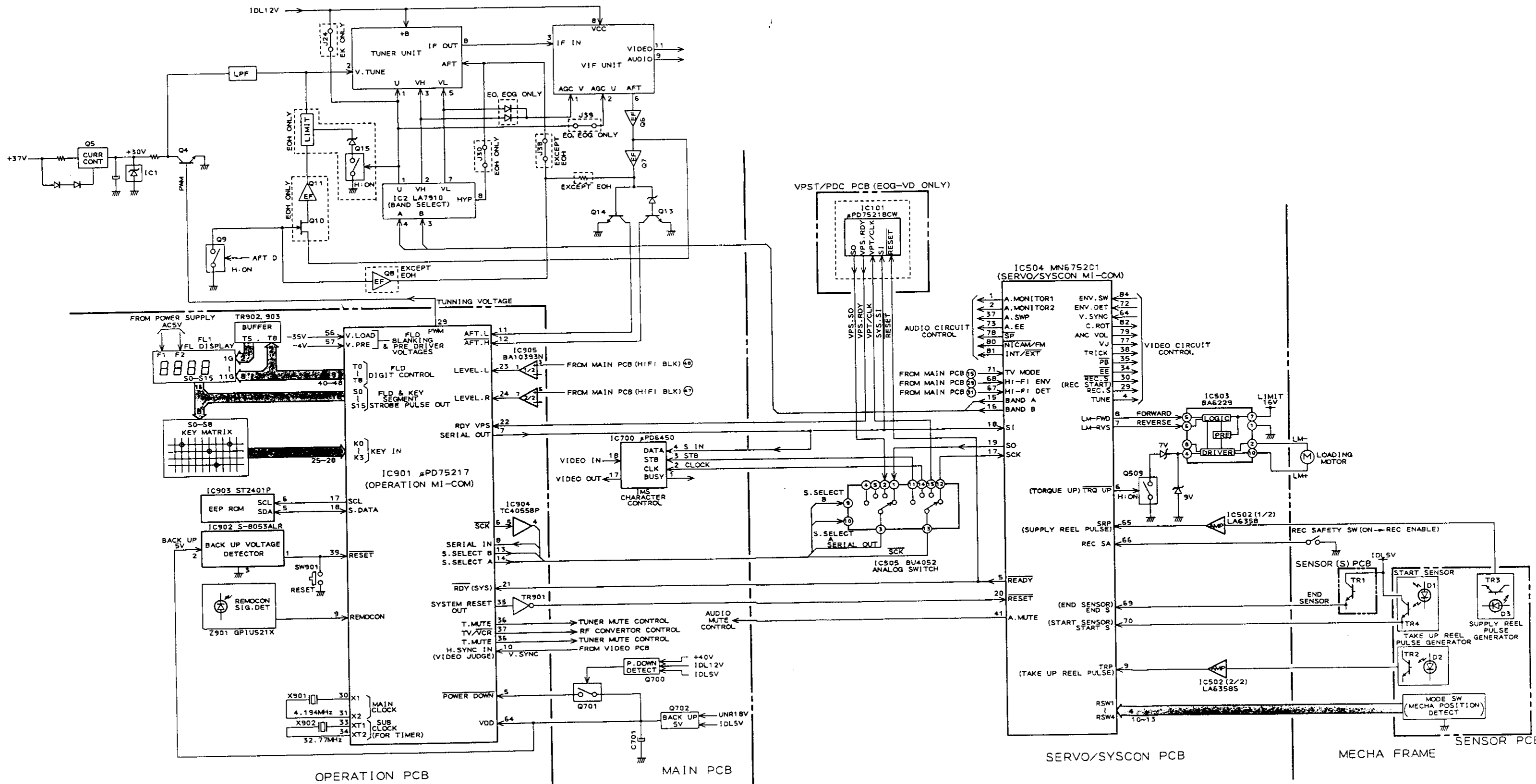
MODEL **VS-F580**^{EOG-VD}, **F590**^{EOH-DN}

SCHEMATIC DIAGRAMS AND PC BOARDS

TABLE OF CONTENTS

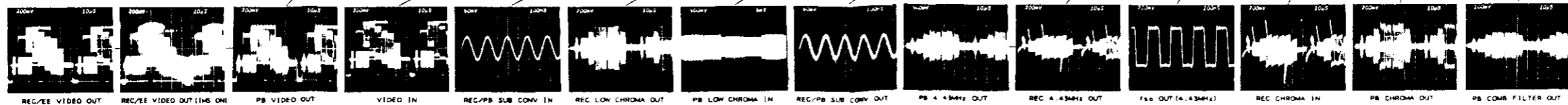
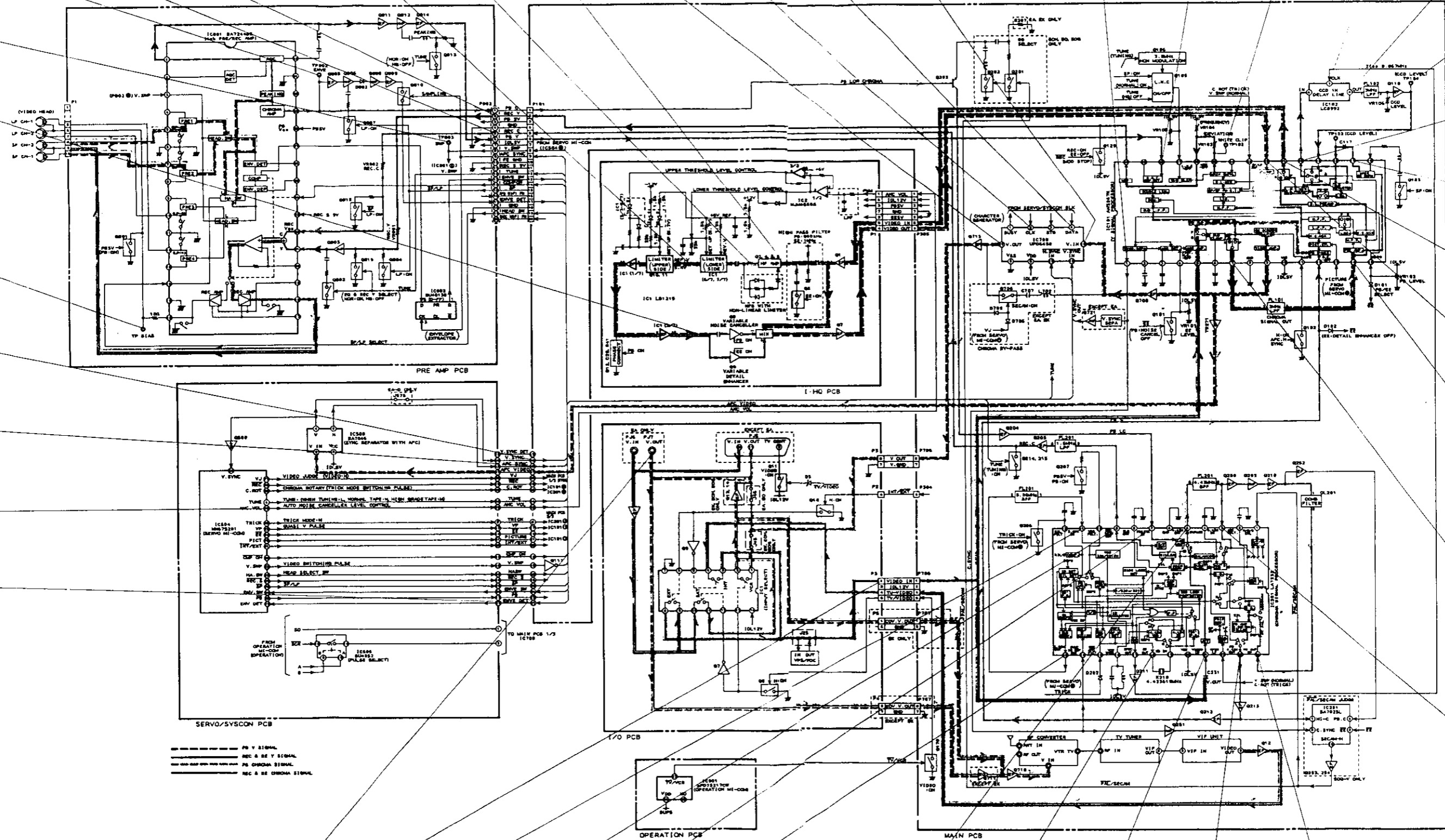
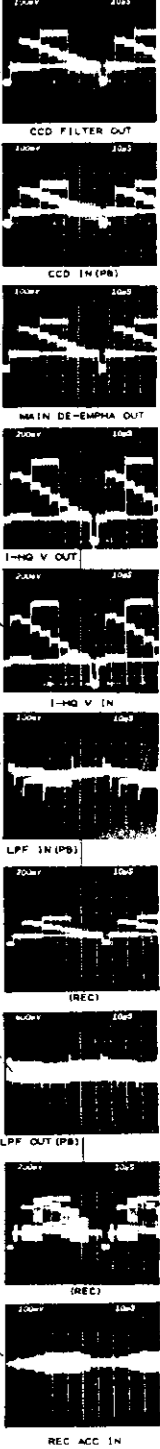
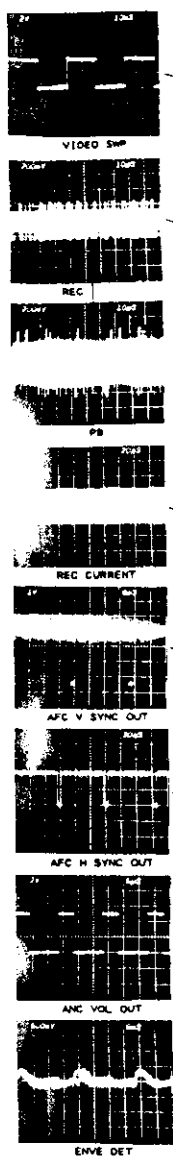
| | |
|---|----|
| I. BLOCK DIAGRAMS | |
| 1. OPERATION & SYSCON | 3 |
| 2. VIDEO | 4 |
| 3. AUDIO | 5 |
| 4. SERVO | 6 |
| 5. VS-F580EOG-V VPST/PDC | 7 |
| II. SCHEMATIC DIAGRAMS AND PC BOARDS | |
| 1. CONNECTION DIAGRAM | 9 |
| 2. POWER SUPPLY | 10 |
| 3. MAIN 1/3 | 12 |
| 4. MAIN 2/3 | 13 |
| 5. MAIN 3/3 | 14 |
| 6. SERVO/SYSCON | 16 |
| 7. PRE AMP | 19 |
| 8. OPERATION | 20 |
| 9. VS-F580EOG-VD VPST/PDC | 23 |
| 10. VS-F550EOH-N, F560EK-N, F590EOH-DN NICAM | 24 |
| 11. I/O | 26 |
| 12. VS-F550EA-D/EO-D/EOH-D, F580EOG-VD D.MULT | 29 |
| 13. VIF UNIT | 30 |
| 14. RC-V551E, V551G REMOTE CONTROL UNIT | 33 |
| 15. RC-V552E REMOTE CONTROL UNIT | 34 |
| III. INFORMATION OF ICs | |
| | 36 |

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

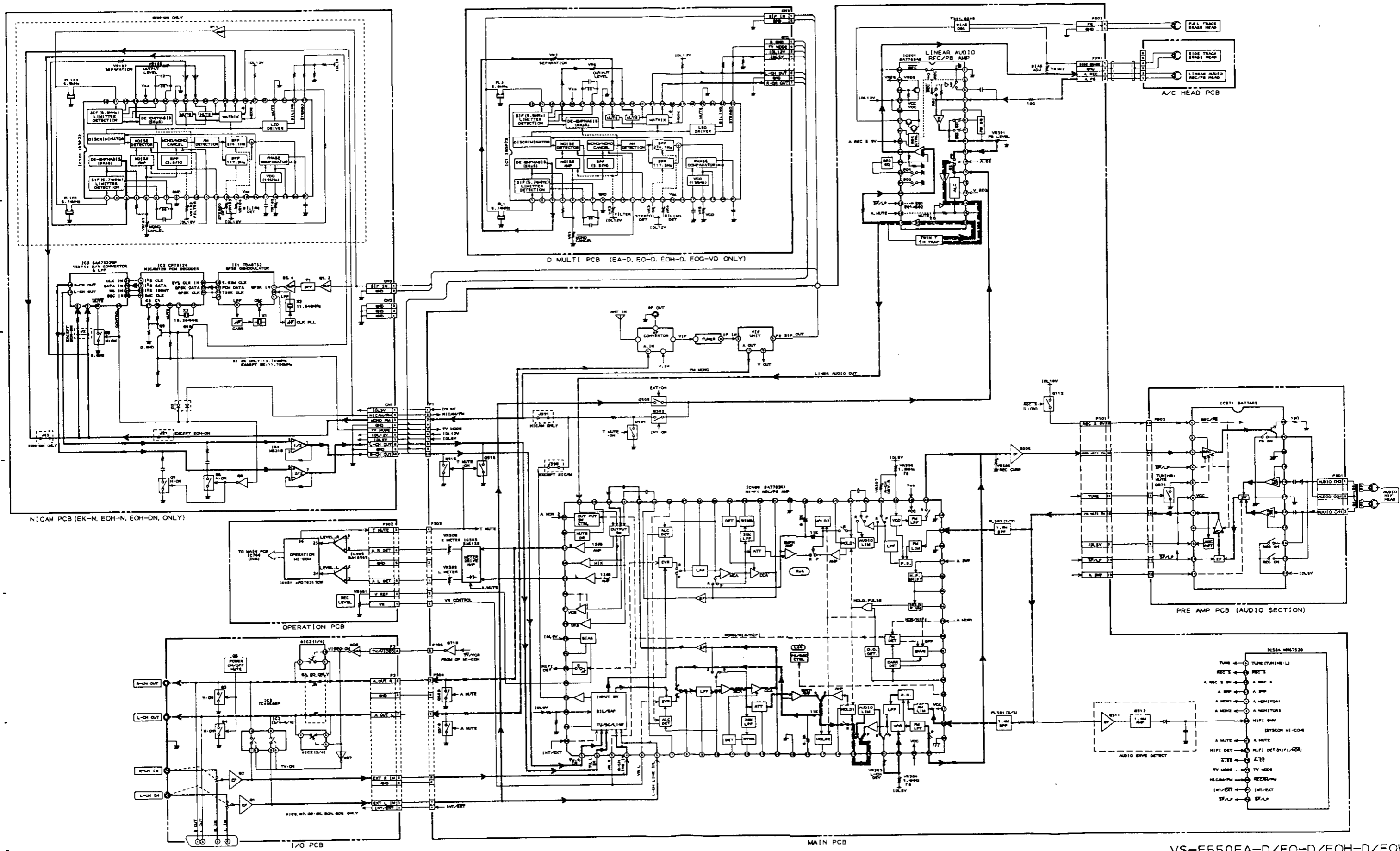


VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 OPERATION & SYSCON
 BLOCK DIAGRAM

No. 5-1 VA03751M

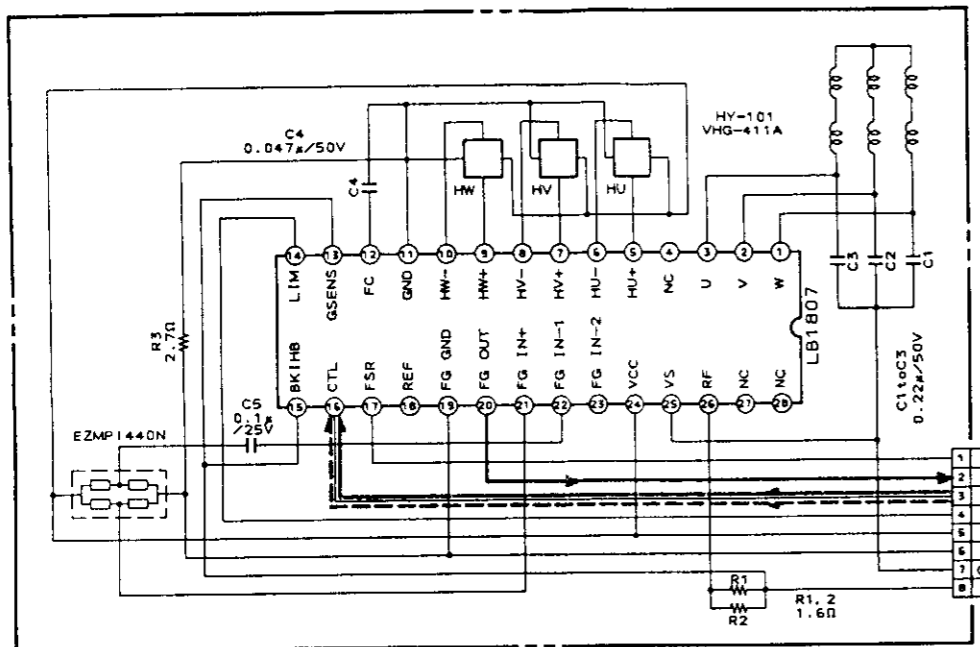


VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 VIDEO
 BLOCK DIAGRAM

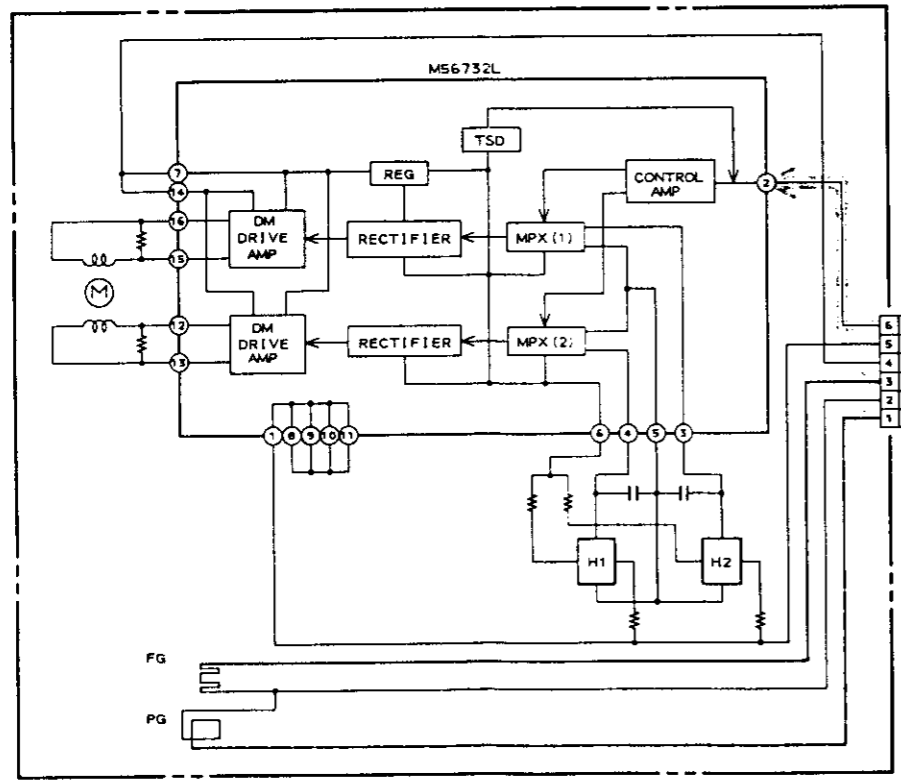


--- PB SIGNAL LINE
 --- REC SIGNAL LINE

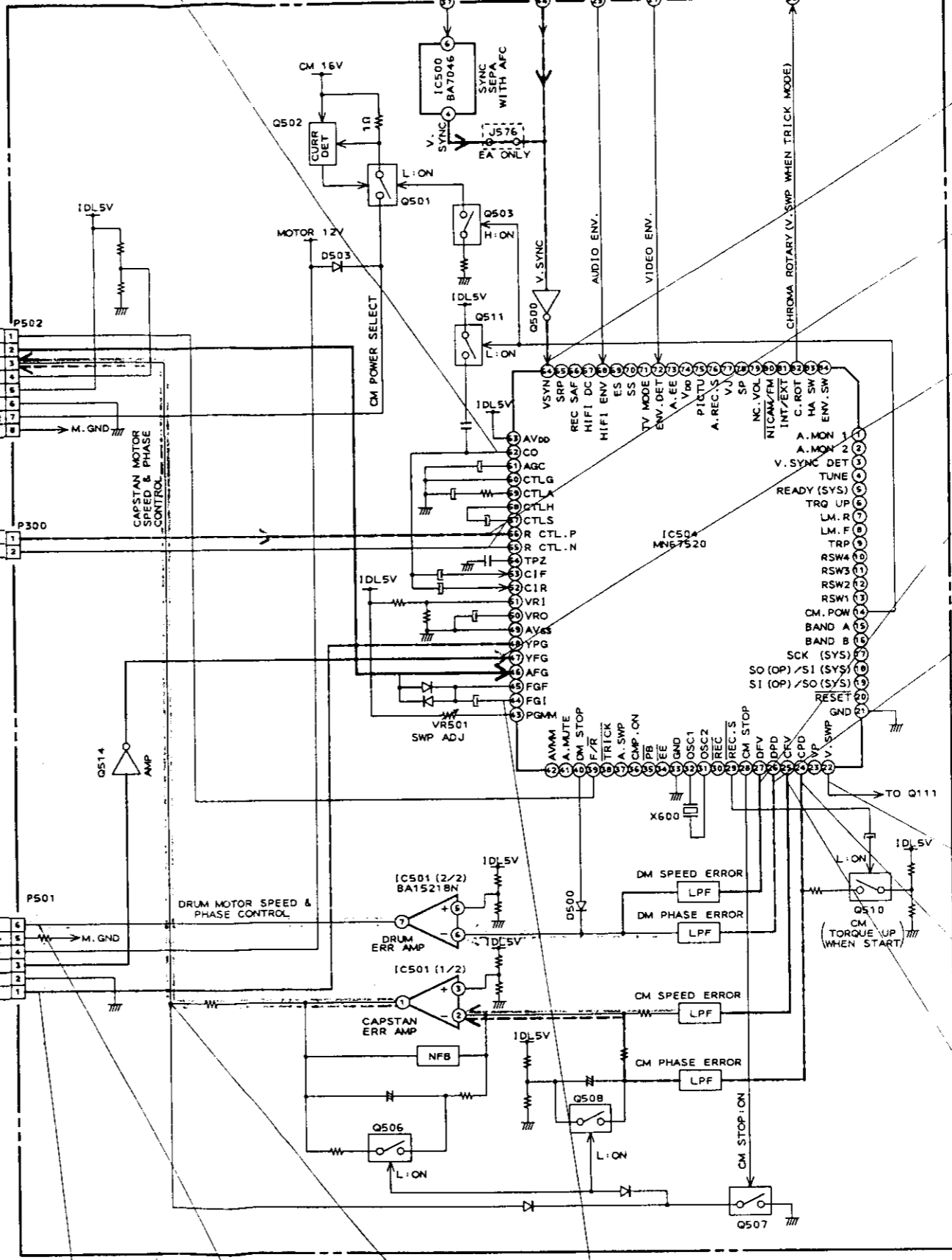
VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 AUDIO
 BLOCK DIAGRAM



CAPSTAN MOTOR

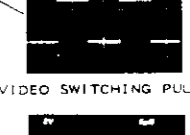
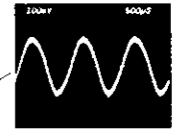
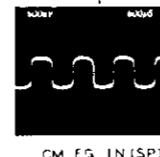
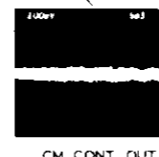
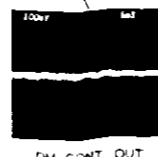
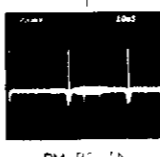


DRUM MOTOR

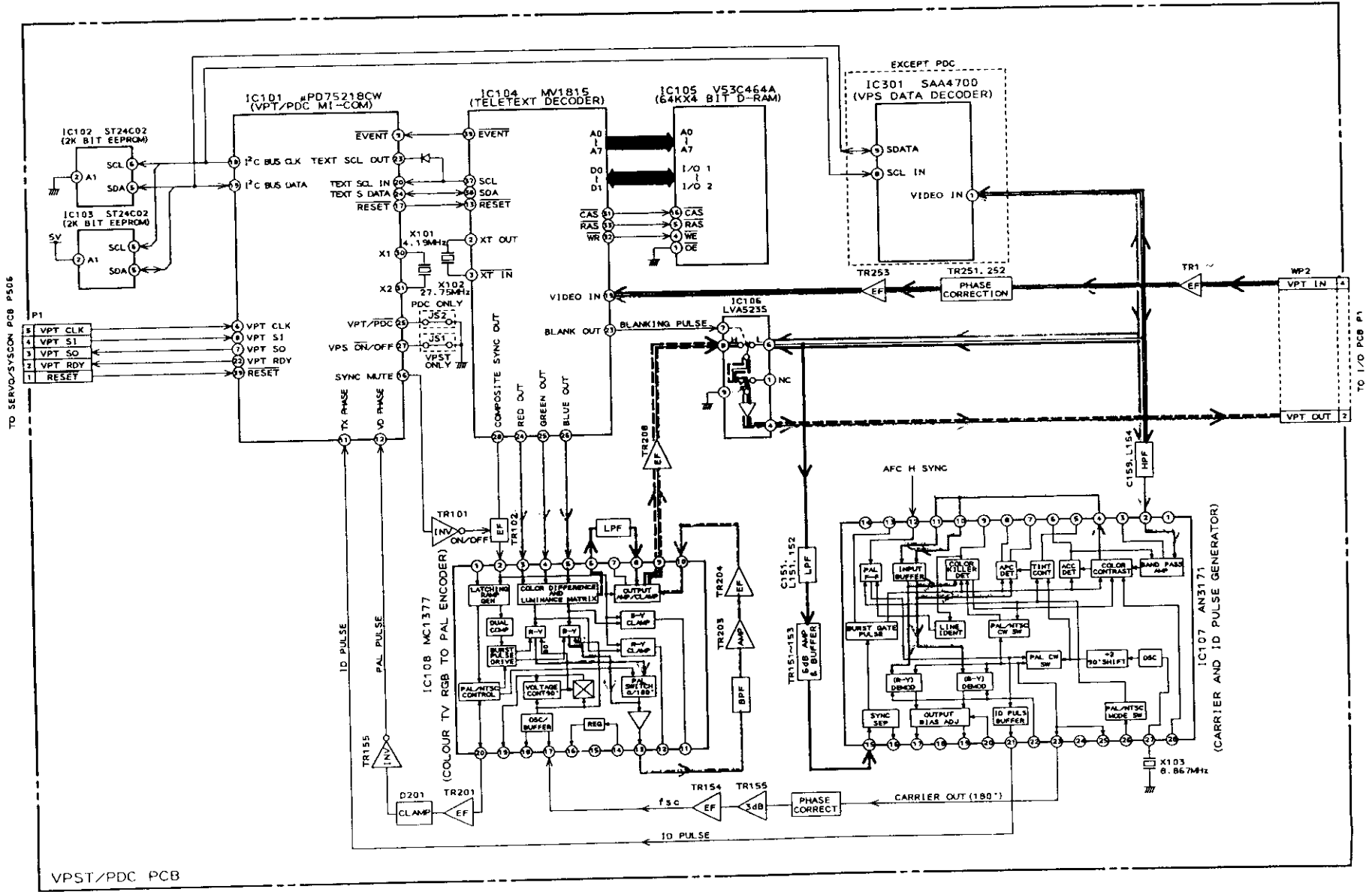


SERVO/SYSCON PCB

——— CM SPEED CONTROL LINE
 - - - CM PHASE CONTROL LINE
 ····· DM SPEED CONTROL LINE
 ····· DM PHASE CONTROL LINE



VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 SERVO
 BLOCK DIAGRAM
 No. 5-4 VA03711M



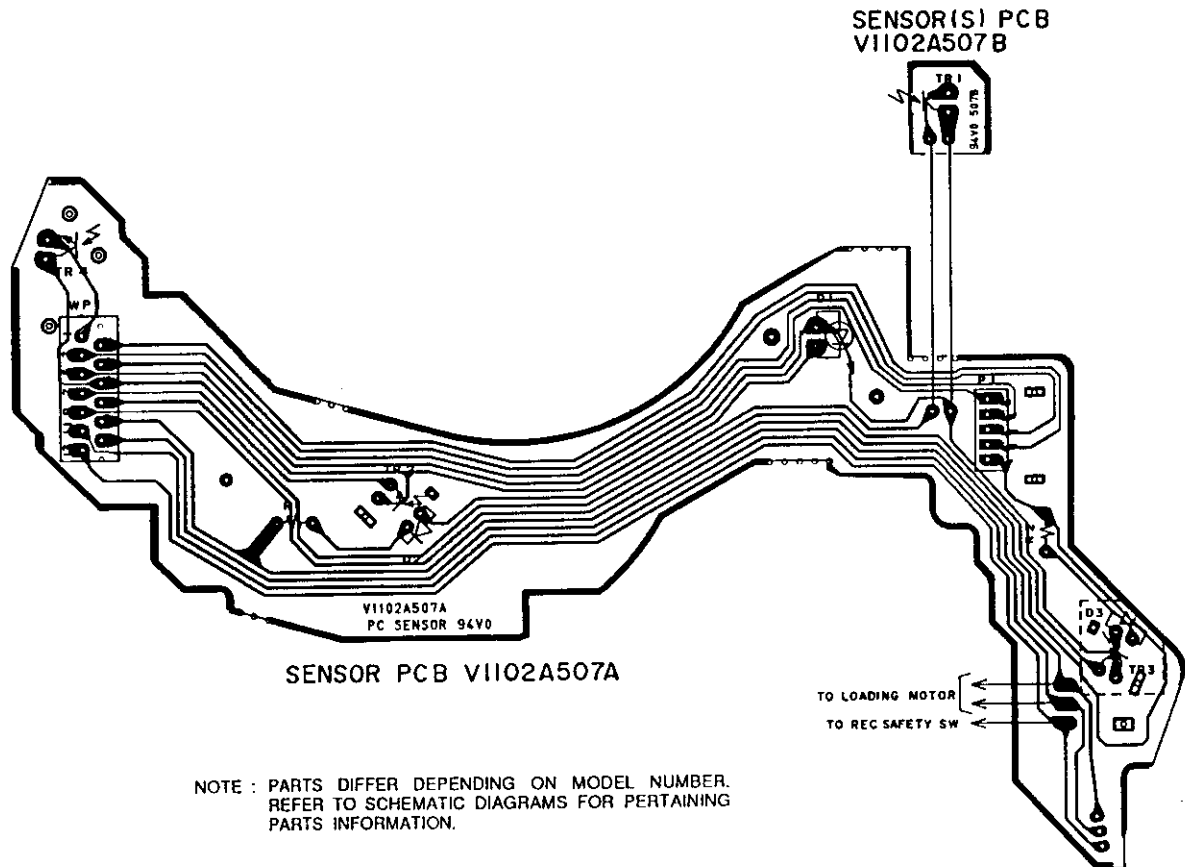
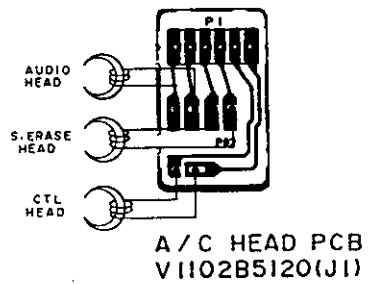
TO SERVO/SYSCON PCB P506

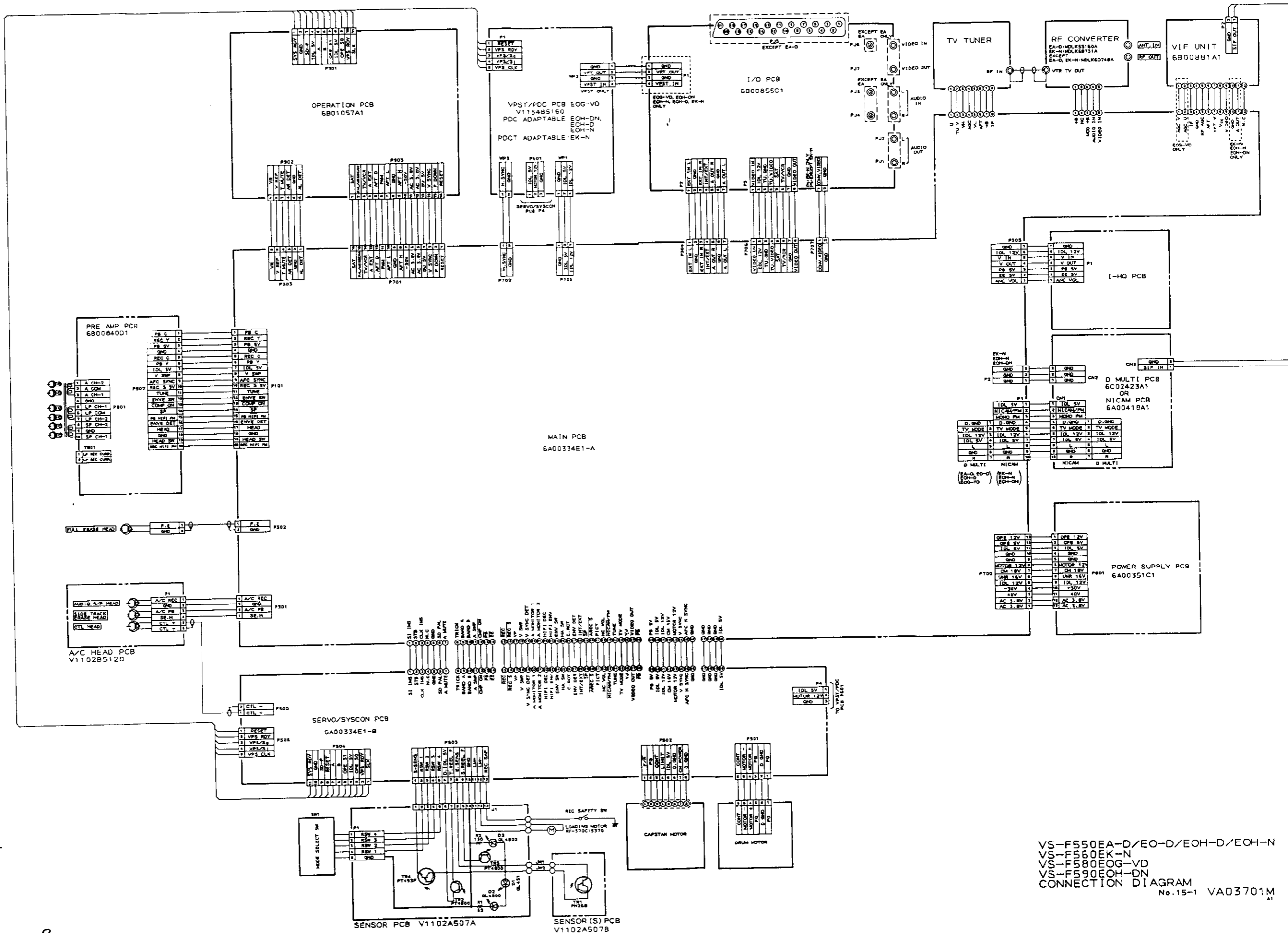
TO I/O PCB P1

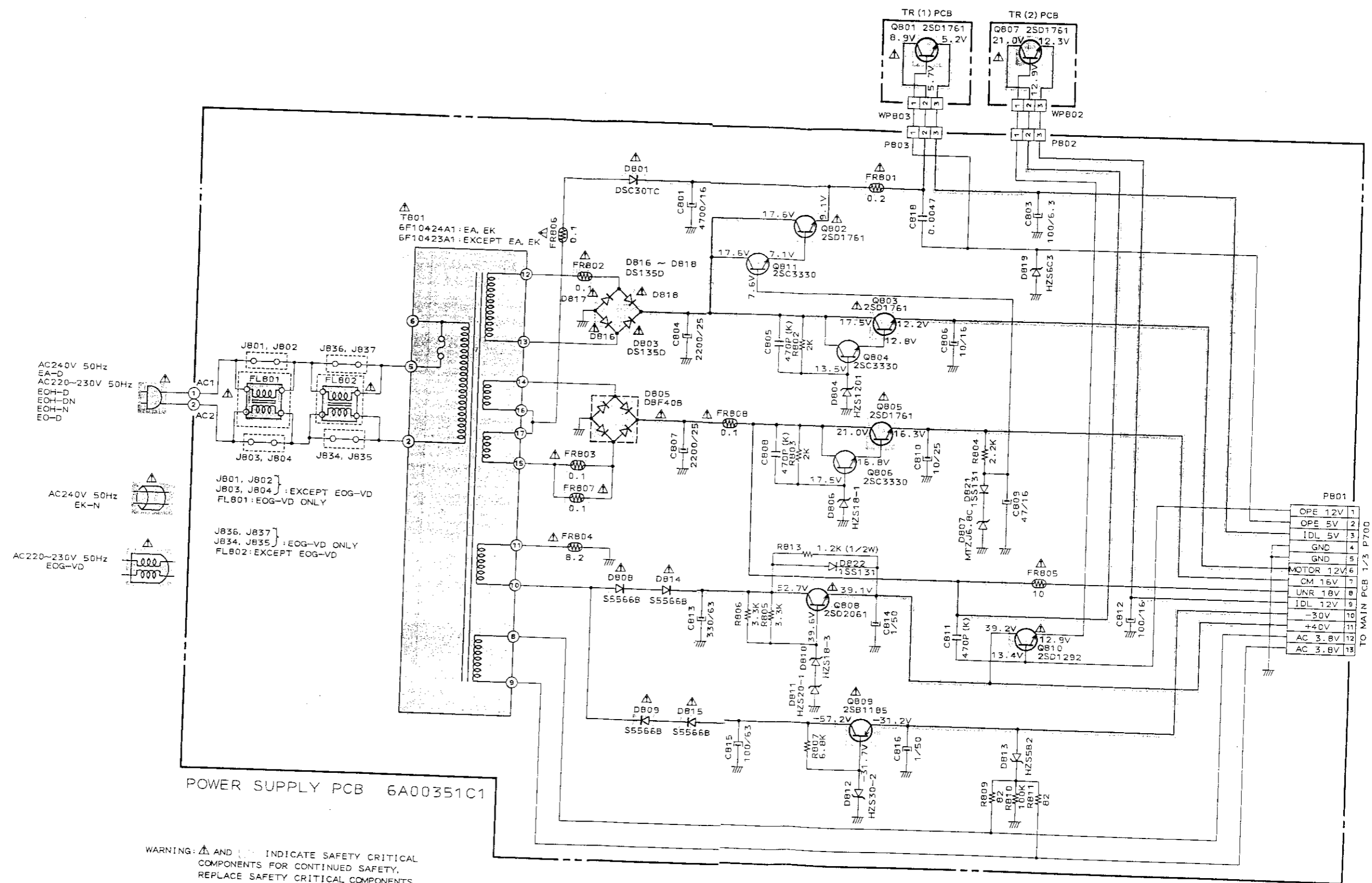
VPST/PDC PCB

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

VS-F580EOG-V
 VPST/PDC
 BLOCK DIAGRAM
 No.5-5 VA03752M







AC240V 50Hz
EA-D
AC220-230V 50Hz
EK-N
AC240V 50Hz
EOH-D
EOH-DN
EOH-N
EO-D
AC240V 50Hz
EK-N
AC220-230V 50Hz
EOG-VD

J801, J802 }
J803, J804 } : EXCEPT EOG-VD
FL801 : EOG-VD ONLY
J836, J837 }
J834, J835 } : EOG-VD ONLY
FL802 : EXCEPT EOG-VD

POWER SUPPLY PCB 6A00351C1

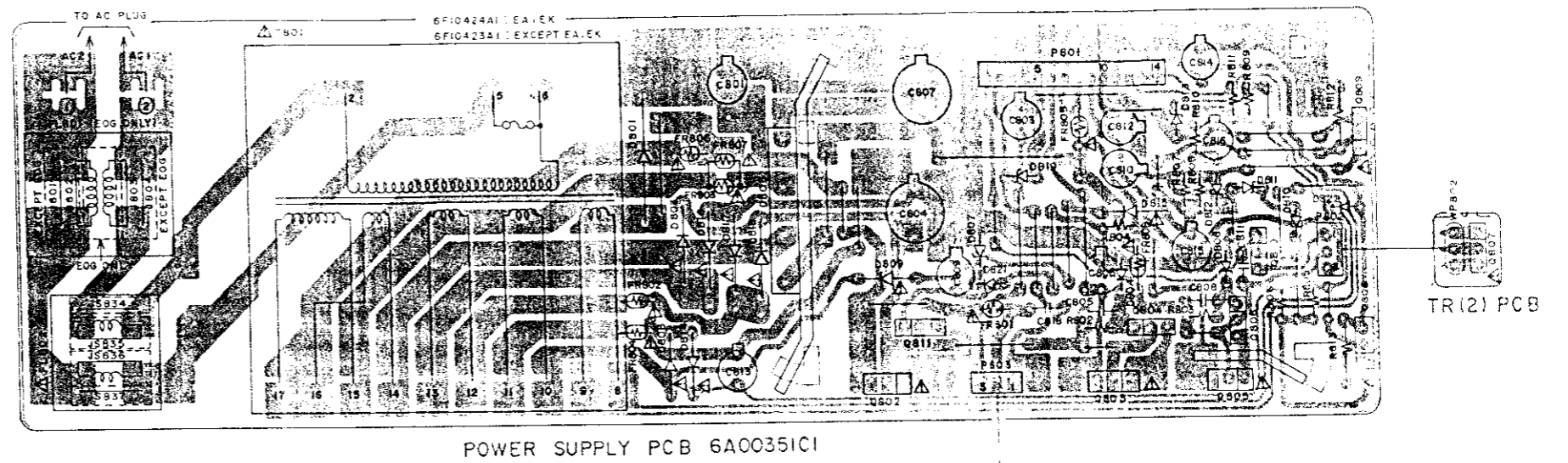
WARNING: ⚠ AND ! INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS
AVERTISSEMENT: ⚠ ET ! ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES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

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(L)

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

VS-F550EA-D/EO-D/EOH-D/EOH-N
VS-F560EK-N
VS-F580EOG-VD
VS-F590EOH-DN
POWER SUPPLY
SCHEMATIC DIAGRAM

No.15-2 VA03702M

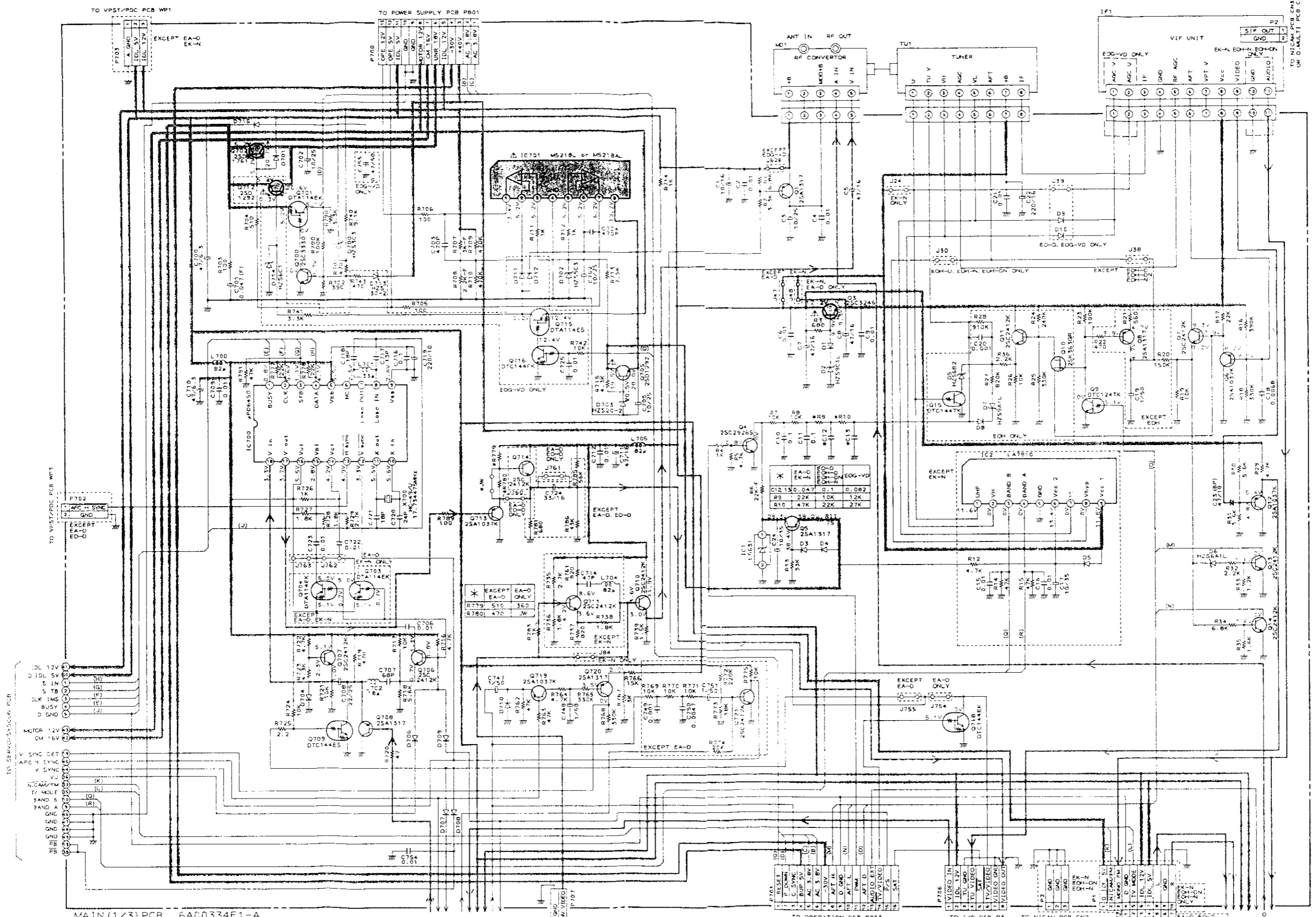


NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING
PARTS INFORMATION.



TR(1) PCB

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

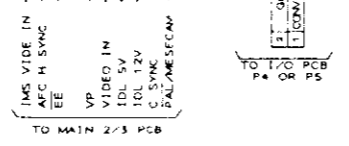


MAIN (1/3) PCB 6A0334E1-A

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 REMPLACEZ QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

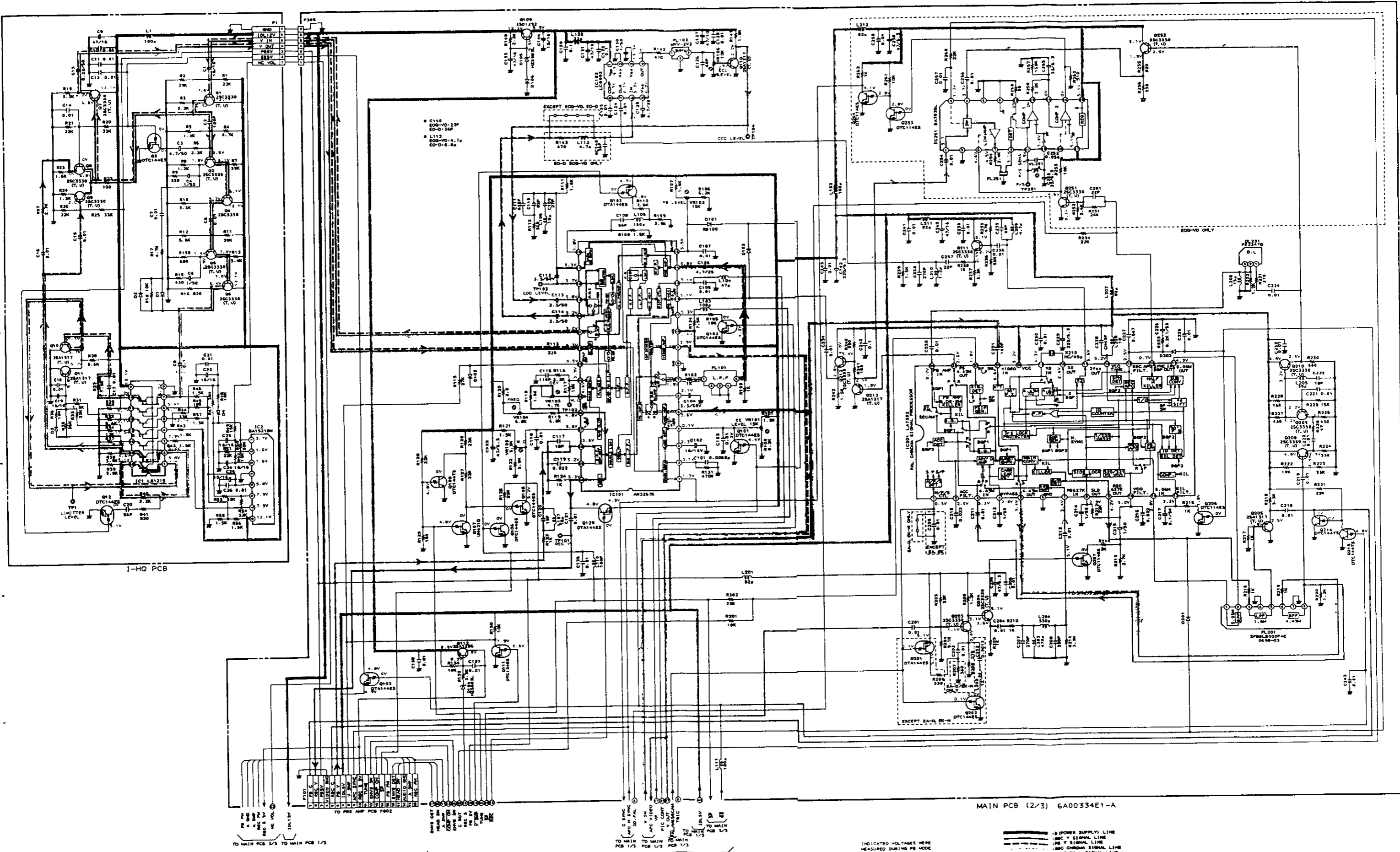
NOTE: UNLESS OTHERWISE SPECIFIED: ALL RESISTORS IN OHMS; ALL CAPACITORS IN P.F. (p-p-F); ALL ELECTROLYTIC CAPACITORS IN μ F/VV; ALL DIODES ARE 1N5120; ALL INDUCTORS IN μ H.



— IB (POWER SUPPLY) LINE
 - - - AUDIO REC SIGNAL LINE
 - - - AUDIO PH SIGNAL LINE
 - - - VIDEO REC SIGNAL LINE
 - - - VIDEO PH SIGNAL LINE

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

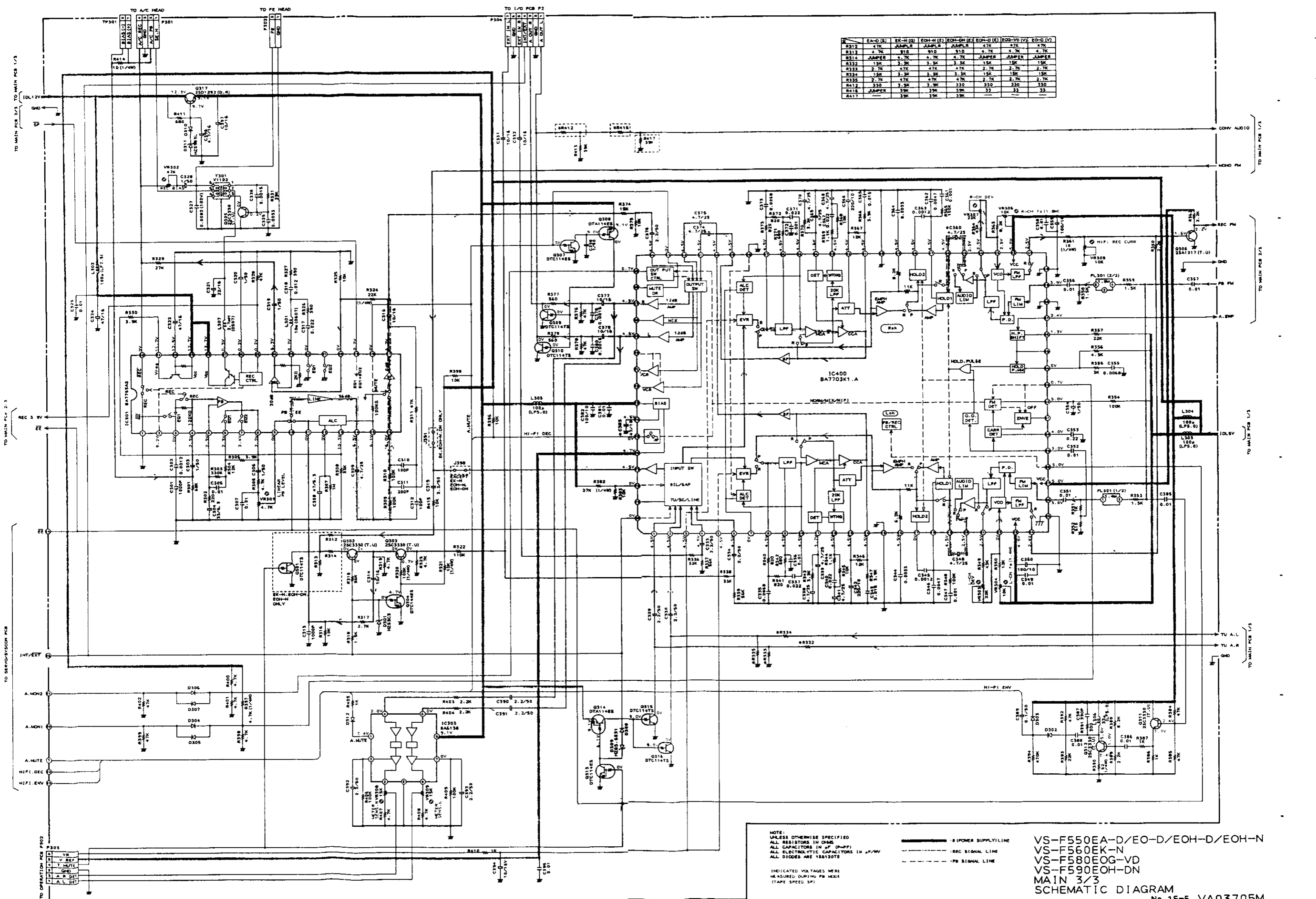
VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 MAIN 1/3
 SCHEMATIC DIAGRAM
 NO.15-3 VA03703M



MAIN PCB (2/3) 6A00334E1-A

NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN μ F (P-AP)
ALL ELECTROLYTIC CAPACITORS IN μ F/PPH
ALL DIODES ARE 1N4148

VS-F550EA-D/EO-D/EOH-D/EOH-N
VS-F560EK-N
VS-F580EOG-VD
VS-F590EOH-DN
MAIN 2/3
SCHEMATIC DIAGRAM
No.15-4 VA03704M



| | EA-O (S) | EH-H (Q) | EH-H (E) | EH-H (E) | EH-H (E) | EO-O (V) | EO-O (V) |
|------|----------|----------|----------|----------|----------|----------|----------|
| R312 | 4.7K | JAMPER | JAMPER | JAMPER | 4.7K | 4.7K | 4.7K |
| R313 | 4.7K | 910 | 910 | 910 | 4.7K | 4.7K | 4.7K |
| R314 | JAMPER | 4.7K | 4.7K | 4.7K | JAMPER | JAMPER | JAMPER |
| R322 | 15K | 3.3K | 3.3K | 3.3K | 15K | 15K | 15K |
| R323 | 2.7K | 4.7K | 4.7K | 4.7K | 2.7K | 2.7K | 2.7K |
| R324 | 15K | 3.3K | 3.3K | 3.3K | 15K | 15K | 15K |
| R325 | 2.7K | 4.7K | 4.7K | 4.7K | 2.7K | 2.7K | 2.7K |
| R412 | 330 | 3.3K | 3.3K | 330 | 330 | 330 | 330 |
| R415 | JAMPER | 33K | 33K | 33K | 33K | 33K | 33K |
| R417 | JAMPER | 33K | 33K | 33K | 33K | 33K | 33K |

NOTE:
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN P.F.F.P.
 ALL ELECTROLYTIC CAPACITORS IN P.F.F.V.
 ALL DIODES ARE 1N5120T

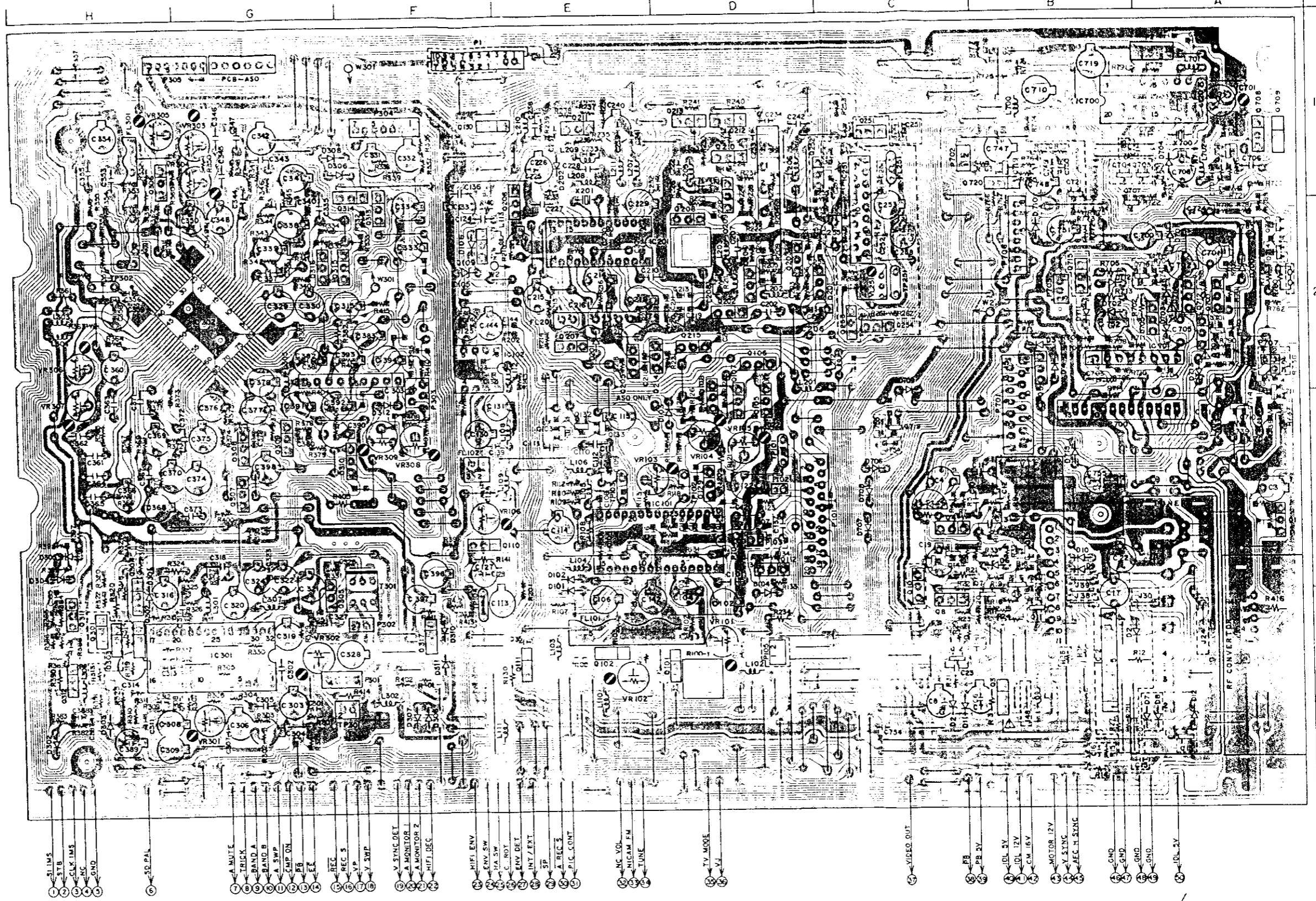
INDICATED VOLTAGES WERE
 MEASURED DURING PB MODE
 (TAPE SPEED 3P)

— P (POWER SUPPLY) LINE
 --- REC SIGNAL LINE
 - - - - - PB SIGNAL LINE

VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 MAIN 3/3
 SCHEMATIC DIAGRAM
 No. 15-5 VA03705M
 A1

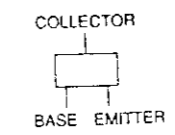
PRINCIPAL PARTS LOCATION

| | | | |
|--------------------|------|------|------|
| ICS | | | |
| IC1 | C3 | Q130 | E,F1 |
| IC2 | B4 | Q201 | C2 |
| IC101 | D3 | Q202 | D2 |
| IC102 | F2 | Q203 | D2 |
| IC201 | E2 | Q204 | D2 |
| IC251 | C1,2 | Q205 | E2 |
| IC301 | G,H4 | Q206 | E1 |
| IC302 | G,H2 | Q207 | E2 |
| IC303 | F,G2 | Q208 | D2 |
| IC700 | A,B1 | Q209 | D1 |
| IC701 | A,B2 | Q210 | D1 |
| | | Q211 | E1 |
| | | Q212 | D1 |
| | | Q213 | D1 |
| | | Q214 | D,E2 |
| | | Q215 | D2 |
| | | Q251 | C1 |
| | | Q252 | C1 |
| | | Q253 | C2 |
| | | Q254 | C2 |
| | | Q301 | H4 |
| | | Q302 | H4 |
| | | Q303 | H4 |
| | | Q304 | H3 |
| | | Q305 | G3 |
| | | Q306 | H1 |
| | | Q307 | G3 |
| | | Q308 | G3 |
| | | Q309 | G3 |
| | | Q310 | F3 |
| | | Q311 | H4 |
| | | Q312 | H4 |
| | | Q313 | F1,2 |
| | | Q314 | F1 |
| | | Q315 | F2 |
| | | Q316 | G2 |
| | | Q317 | F4 |
| | | Q700 | A2 |
| | | Q701 | A2 |
| | | Q702 | A2 |
| | | Q703 | A1 |
| | | Q704 | B1 |
| | | Q705 | A2 |
| | | Q706 | A1 |
| | | Q707 | B2 |
| | | Q708 | A1 |
| | | Q709 | A1 |
| | | Q710 | A3 |
| | | Q711 | A2 |
| | | Q712 | A2 |
| | | Q713 | A2 |
| | | Q714 | A2 |
| | | Q715 | B2 |
| | | Q716 | A2 |
| | | Q718 | C3 |
| | | Q719 | B1 |
| | | Q720 | B1 |
| | | Q721 | B1 |
| | | | |
| CONNECTORS | | | |
| P1 | E,F1 | | |
| P2 | A1 | | |
| P101 | D3 | | |
| P102 | D3 | | |
| P103 | D3 | | |
| P104 | D3 | | |
| P105 | D4 | | |
| P301 | F,G4 | | |
| P302 | F4 | | |
| P303 | F1,2 | | |
| P304 | F1 | | |
| P305 | G1 | | |
| P700 | A,B3 | | |
| P701 | B2,3 | | |
| P702 | C1 | | |
| P703 | B1 | | |
| P706 | B1 | | |
| TRANSISTORS | | | |
| Q1 | A1 | | |
| Q2 | A3 | | |
| Q3 | B4 | | |
| Q4 | C3 | | |
| Q5 | B2 | | |
| Q6 | B3 | | |
| Q7 | B4 | | |
| Q8 | C4 | | |
| Q9 | C3 | | |
| Q10 | C3 | | |
| Q11 | B4 | | |
| Q12 | C4 | | |
| Q13 | B3 | | |
| Q14 | C3 | | |
| Q15 | A4 | | |
| Q101 | D4 | | |
| Q102 | E4 | | |
| Q103 | E3 | | |
| Q105 | D3 | | |
| Q106 | D2 | | |
| Q107 | D3 | | |
| Q108 | D2,3 | | |
| Q109 | F2 | | |
| Q110 | F3 | | |
| Q111 | E4 | | |
| Q112 | D3 | | |
| Q129 | D3 | | |



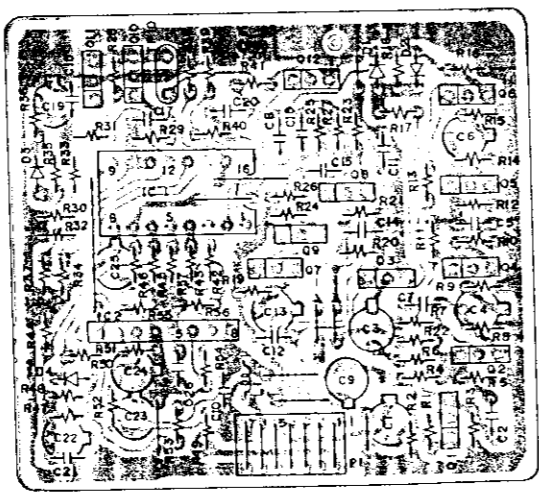
TO SERVO / SYSCON PCB

MAIN PCB 6A00334E1-A

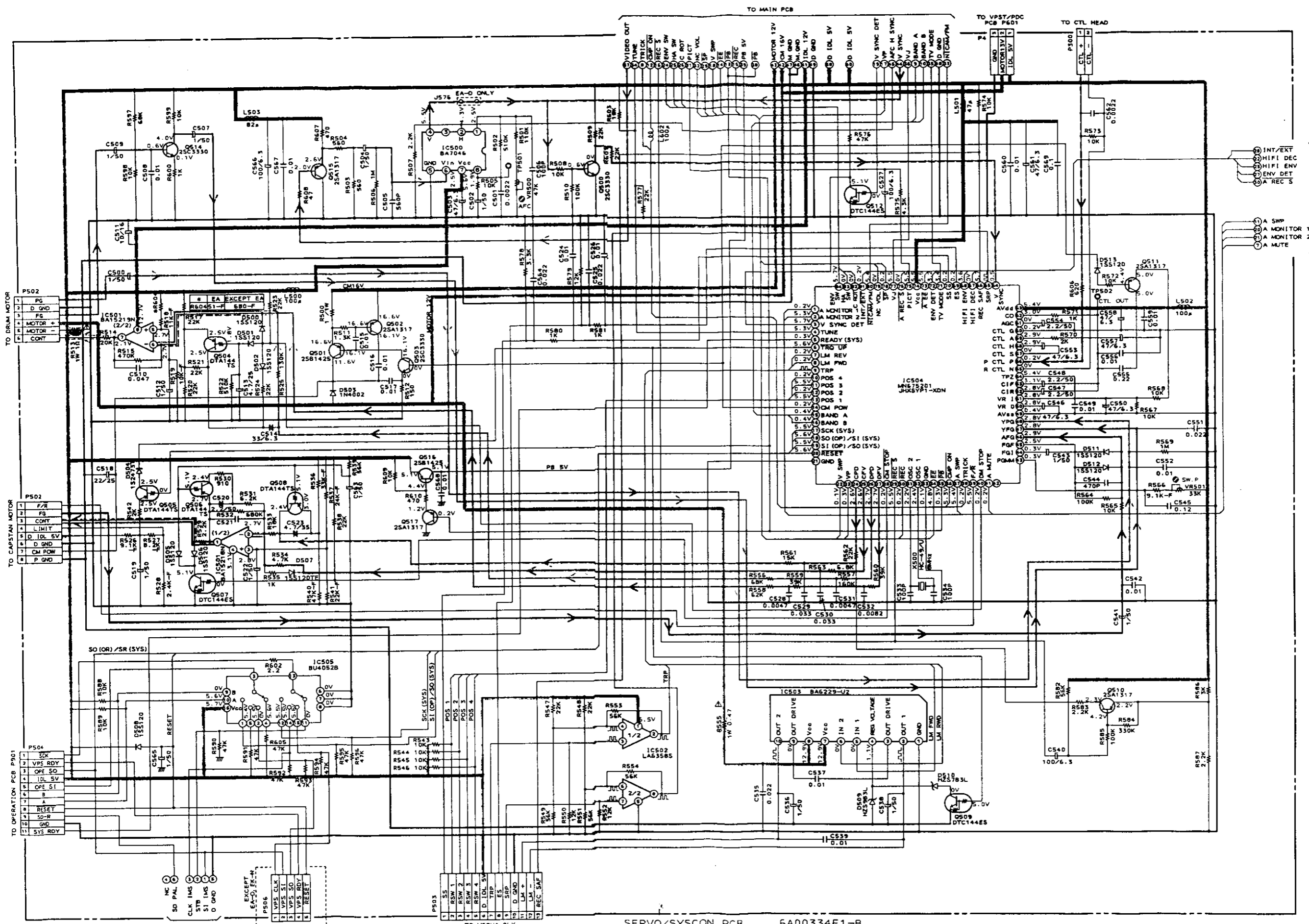


NOTE: PARTS DIFFER DEPENDING ON MODEL NUMBER. REFER TO SCHEMATIC DIAGRAMS FOR PERTAINING PARTS INFORMATION.

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ 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.



I-HQ PCB

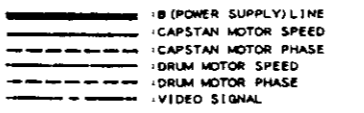


WARNING Δ AND \square INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT Δ ET \square ILS INDICENT 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 PH MADE (TAPE SPEED SP).

NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS ALL CAPACITORS IN μ F (μ -PF) ALL ELECTROLYTIC CAPACITORS IN μ F/W ALL INDUCTORS IN mH(K)



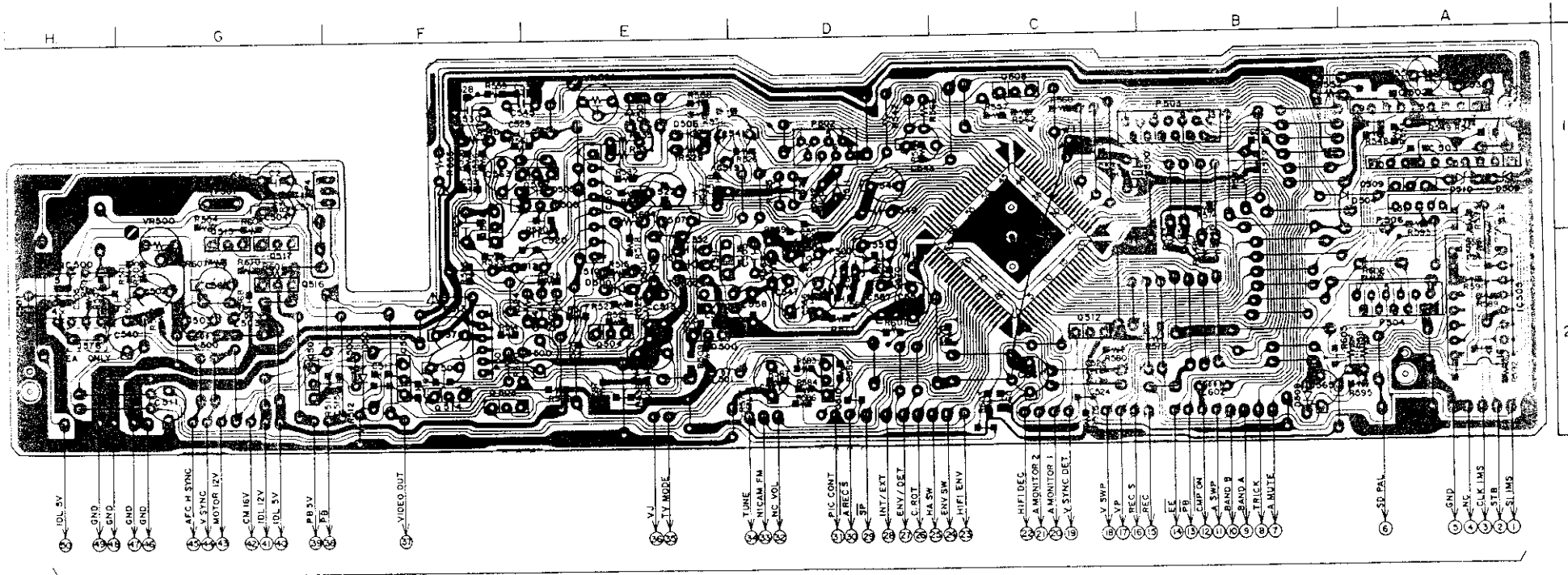
VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 SERVO/SYSCON
 SCHEMATIC DIAGRAM

NO. 15-6 VA0376M
 A1

PRINCIPAL PARTS LOCATION

| ICs | | TRANSISTORS | |
|-------|------|-------------|----|
| IC500 | H2 | Q500 | E2 |
| IC501 | E1 | Q501 | F2 |
| IC502 | A1 | Q502 | G2 |
| IC503 | A1 | Q503 | F2 |
| IC504 | C1,2 | Q504 | E2 |
| IC505 | A2 | Q505 | C1 |
| | | Q506 | E1 |
| | | Q507 | E1 |
| | | Q508 | F1 |
| | | Q509 | A1 |
| | | Q510 | D2 |
| | | Q511 | E2 |
| | | Q512 | C2 |
| | | Q514 | F2 |
| | | Q515 | G1 |
| | | Q516 | G2 |
| | | Q517 | G1 |

| CONNECTORS | |
|------------|-------|
| P4 | F, G1 |
| P300 | D2 |
| P501 | F2 |
| P502 | D1 |
| P503 | B1 |
| P504 | A2 |
| P506 | A1 |
| P300 | D2 |



TO MAIN PCB

SERVO/SYSCON PCB 6A00334E1-B

WARNING: AND STATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL. NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT.

PRINCIPAL PARTS LOCATION

ICS

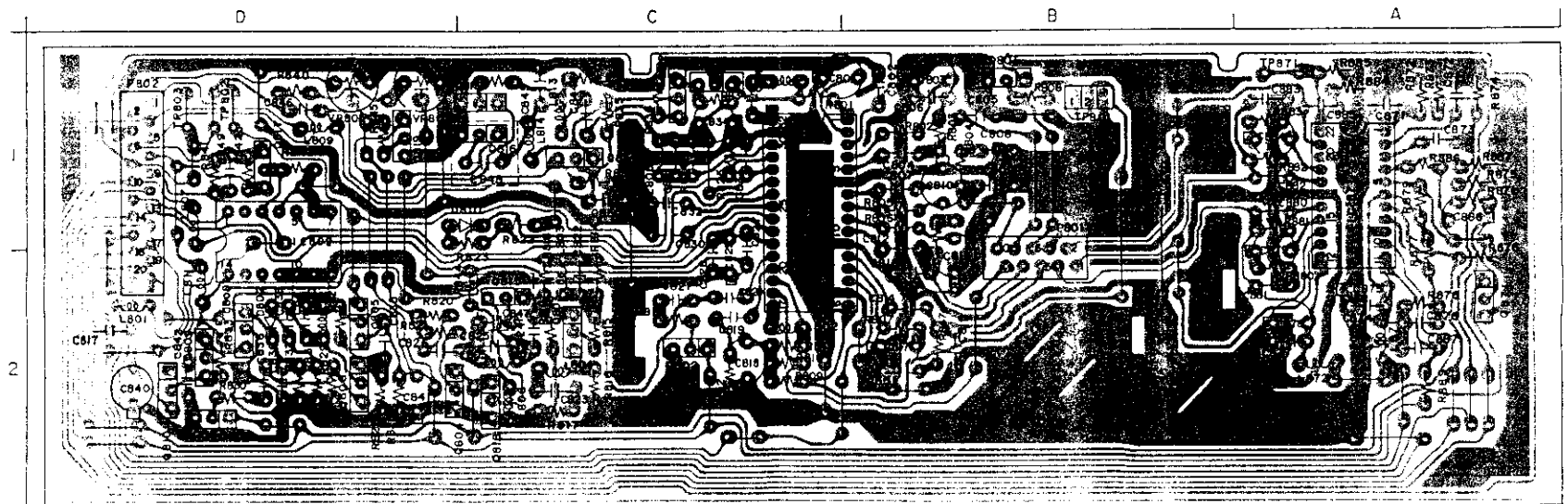
| | | | |
|-------------|------|------------|----|
| IC801 | C1 | Q807 | D2 |
| IC802 | D1,2 | Q808 | D2 |
| IC871 | A1 | Q809 | D2 |
| | | Q810 | D2 |

CONNECTORS

| | | | |
|------------|------|------------|----|
| P801 | B2 | Q811 | C1 |
| P802 | D1,2 | Q812 | C1 |
| | | Q814 | C1 |
| | | Q815 | C2 |

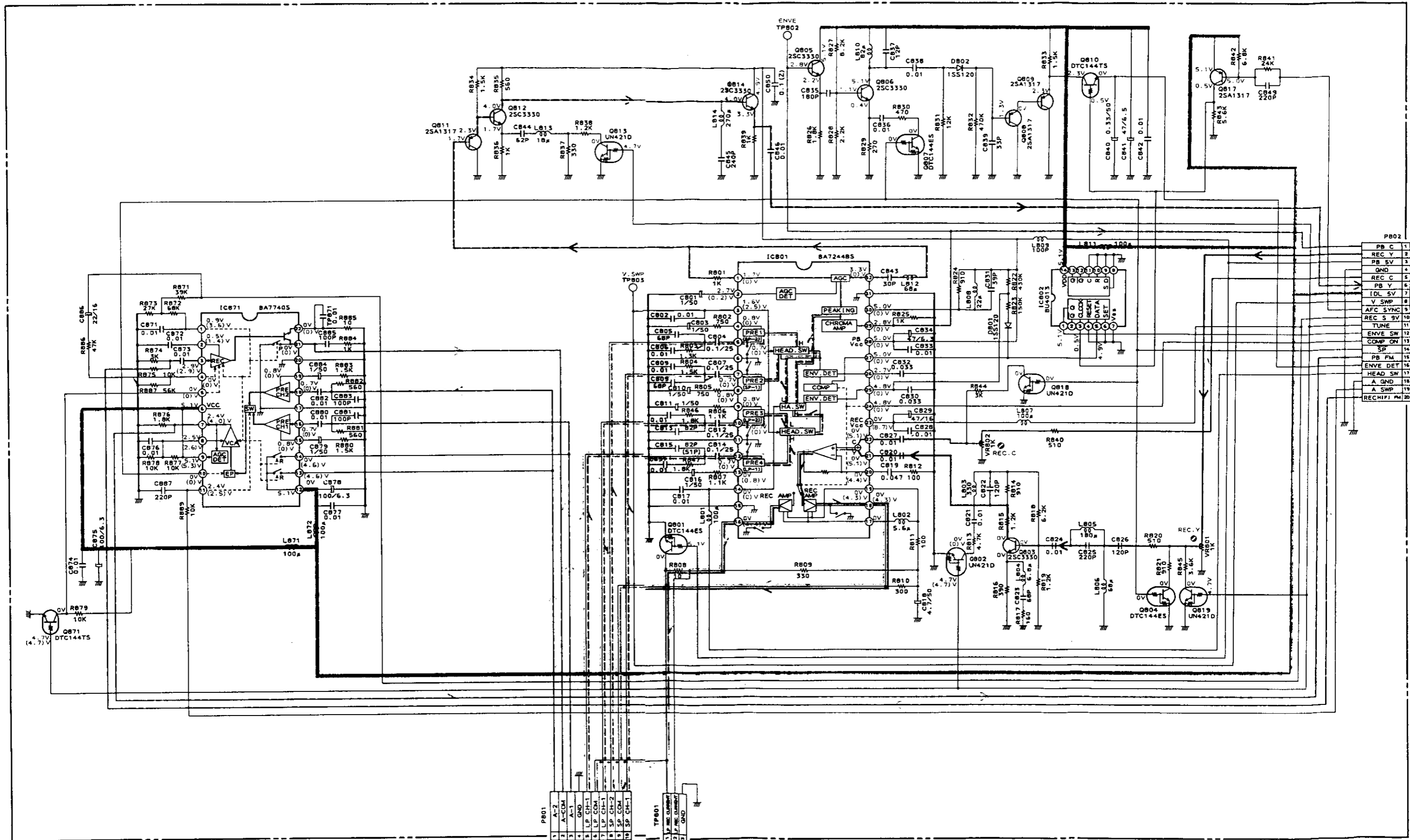
TRANSISTORS

| | | | |
|------------|----|------------|----|
| Q801 | B1 | Q816 | C1 |
| Q803 | C2 | Q817 | D1 |
| Q804 | C2 | Q818 | C2 |
| Q805 | D2 | | |
| Q806 | D2 | | |



PRE AMP PCB 6B00840DI

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



PRE AMP PCB 6B00840D1

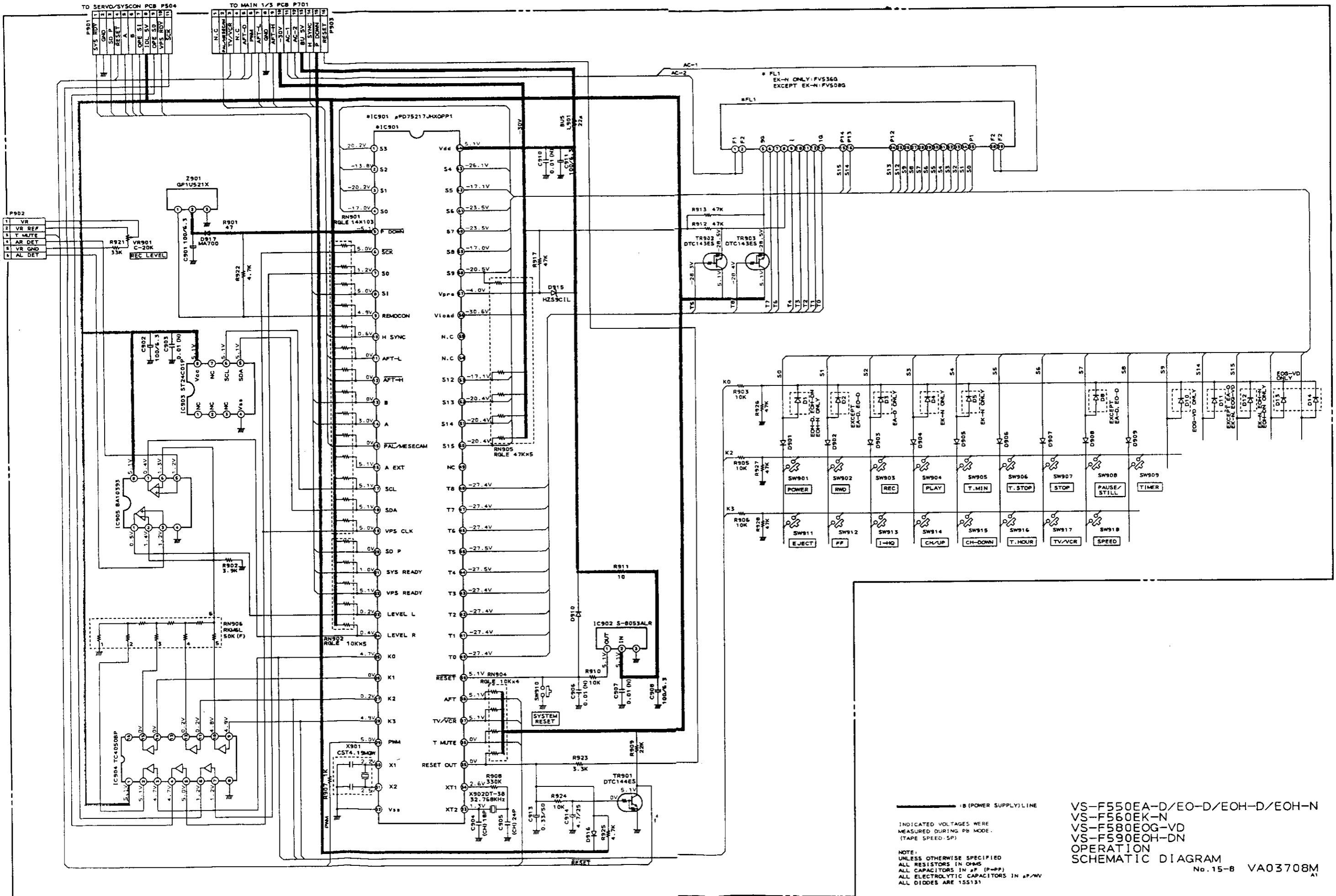
TO ROTARY HEAD BLOCK

NOTE:
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN μ F (P-P)
 ALL ELECTROLYTIC CAPACITORS IN μ F/W

——— POWER SUPPLY LINE
 - - - REC Y SIGNAL LINE
 - · - · - PB Y SIGNAL LINE
 - · - · - REC CHROMA SIGNAL LINE
 - · - · - PB CHROMA SIGNAL LINE
 - · - · - REC AUDIO SIGNAL LINE
 - · - · - PB AUDIO SIGNAL LINE

(INDICATED VOLTAGES WERE
 MEASURED DURING PB MODE.
 () REC MODE
 (TAPE SPEED SP)

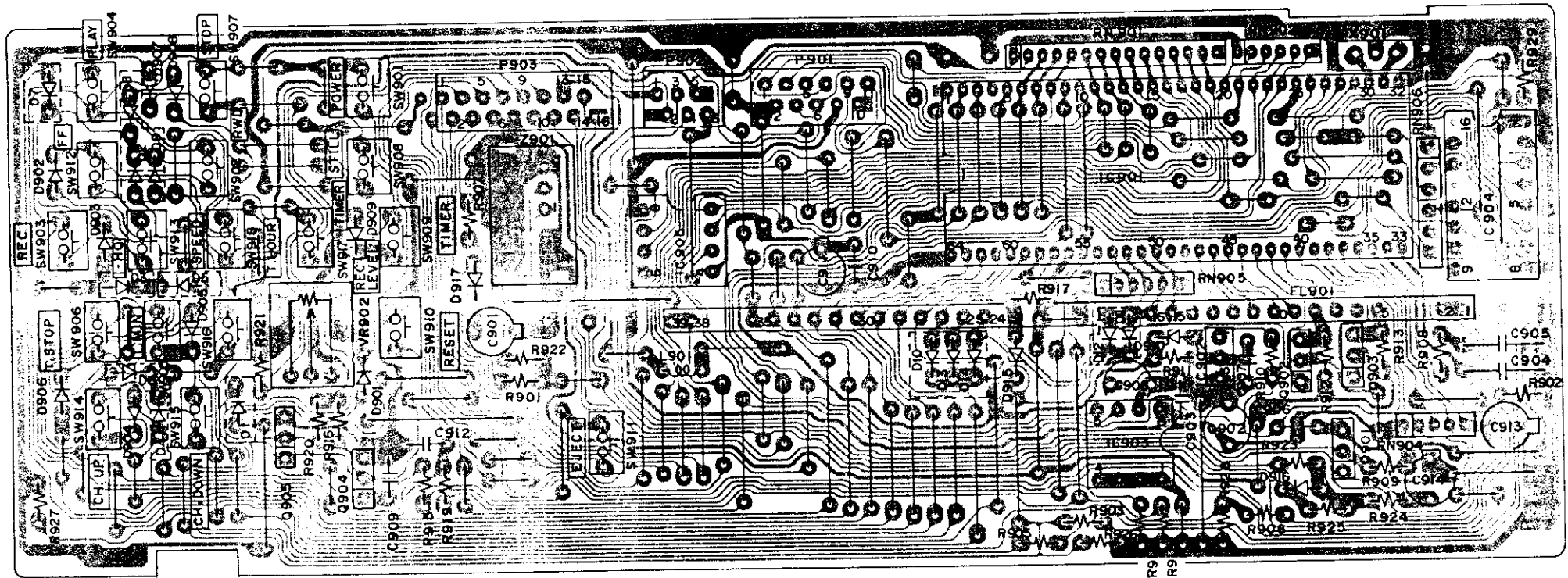
VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 PRE AMP
 SCHEMATIC DIAGRAM
 No.15-7 VA03707M
 A1



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

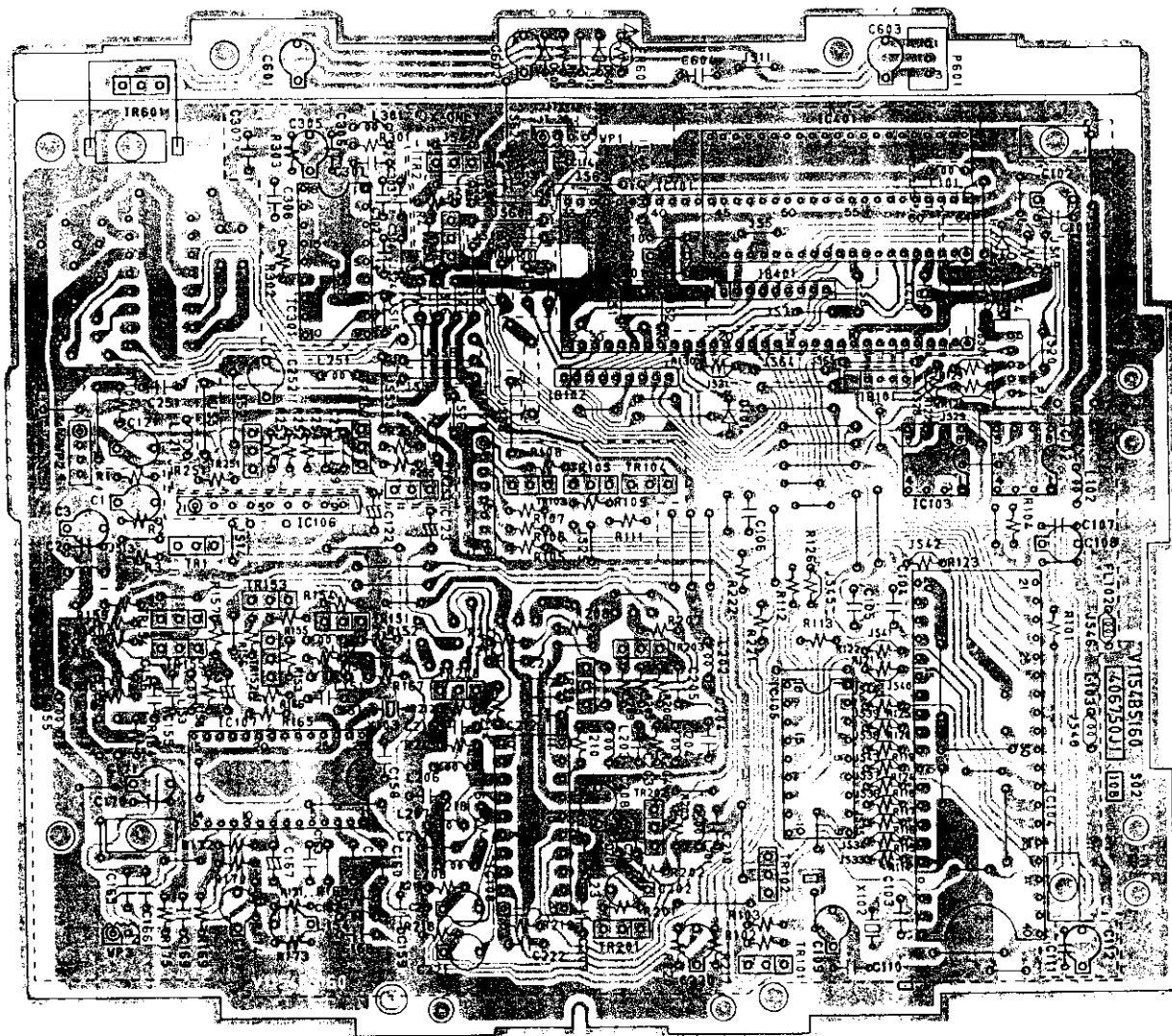
NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS ALL CAPACITORS IN pF (P-PP) ALL ELECTROLYTIC CAPACITORS IN μF/W ALL DIODES ARE 1SS131

VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 OPERATION SCHEMATIC DIAGRAM
 No.15-B VA03708M



OPERATION PCB 6B01057A1

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

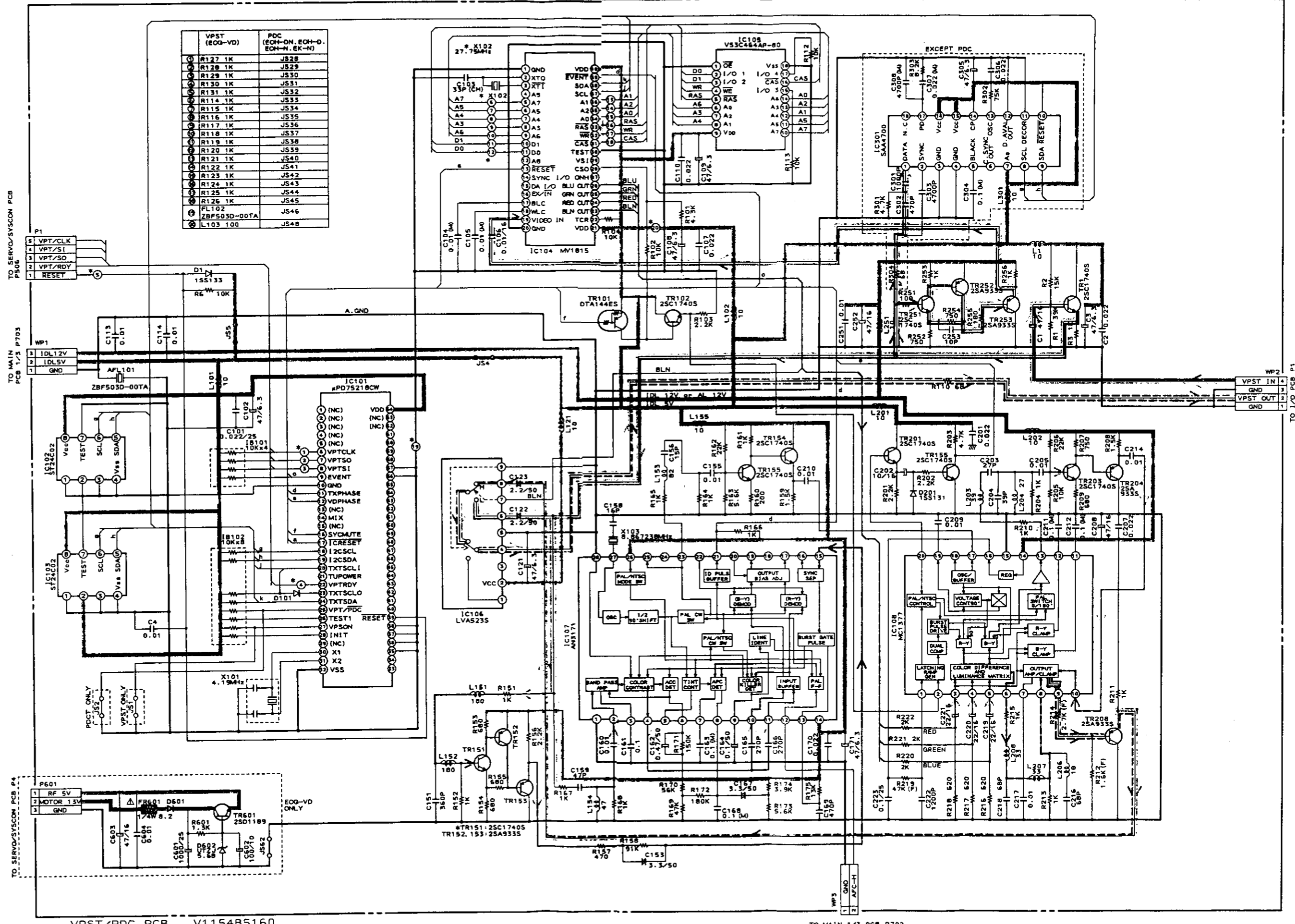


VPST / PDC PCB VII54B5160J1

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

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

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



VPST/PDC PCB V1154B5160

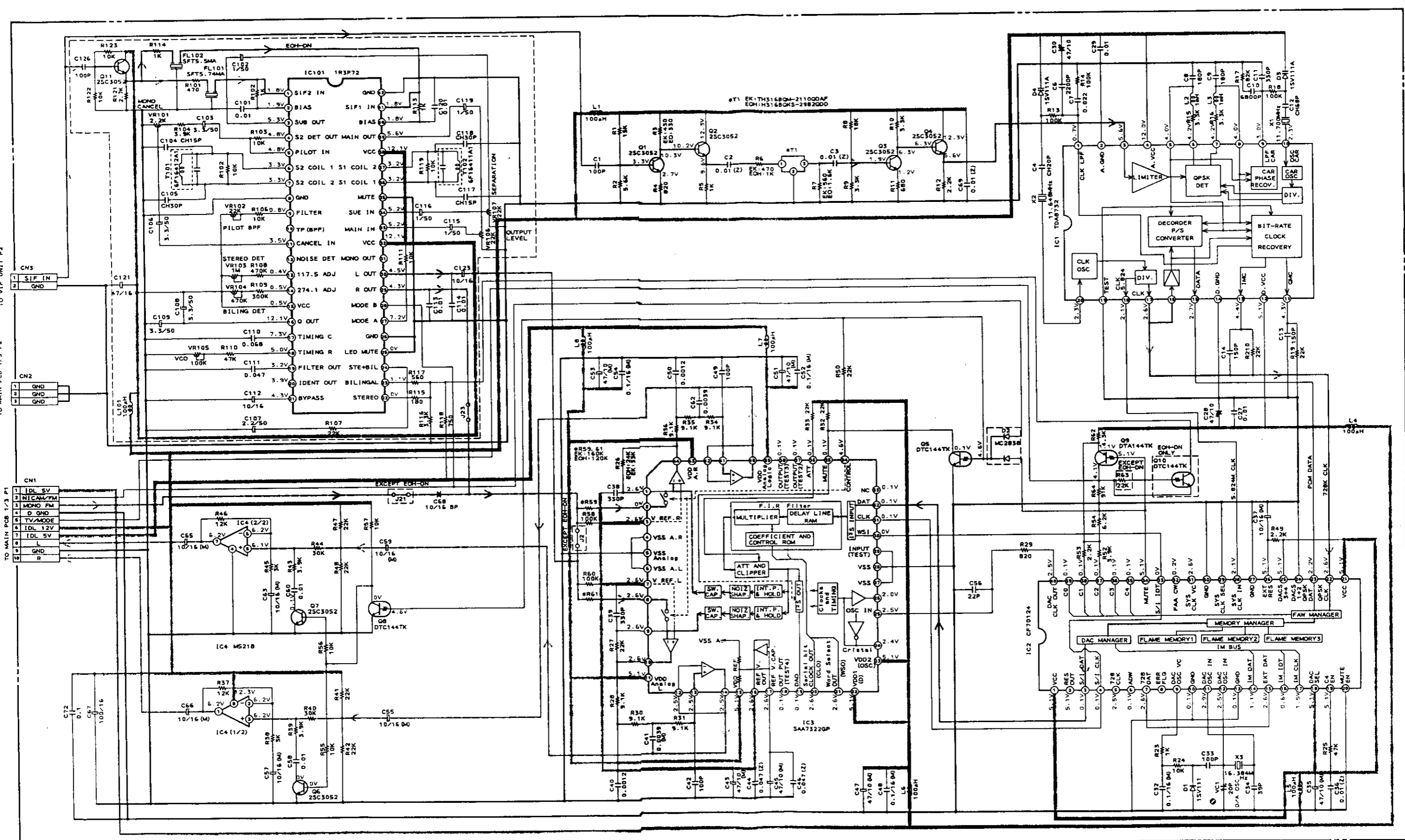
- - - - - (POWER SUPPLY) LINE
 - - - - - V IN (TUNER) SIGNAL
 - - - - - V VPT SIGNAL
 - - - - - CHROMA IN (TUNER) SIGNAL
 - - - - - CHROMA VPT SIGNAL

NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN μ F
 ALL INDUCTORS IN μ H

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

VS-F580EOG-VD
 VPST/PDC
 SCHEMATIC DIAGRAM
 No. 15-9 VA03709M
 A1

TO MAIN PCB 1/3 P2
TO VIF UNIT P2
TO MAIN PCB 1/3 P1

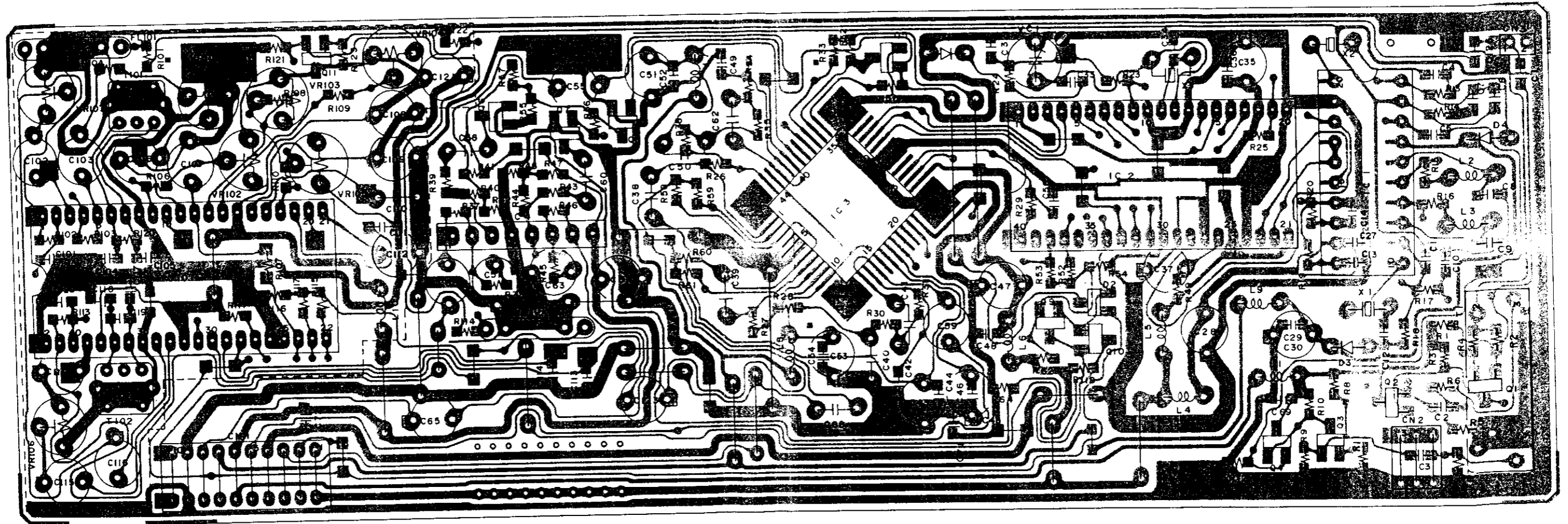


NICAM PCB 6A00418A1

— B (POWER SUPPLY) LINE
- - - IF SIGNAL OR PCM SIGNAL LINE
... AUDIO SIGNAL LINE

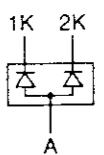
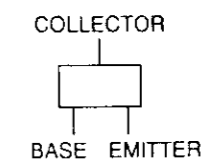
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN PF
INDICATED VOLTAGES WERE MEASURED
DURING (E-STOP) MODE.

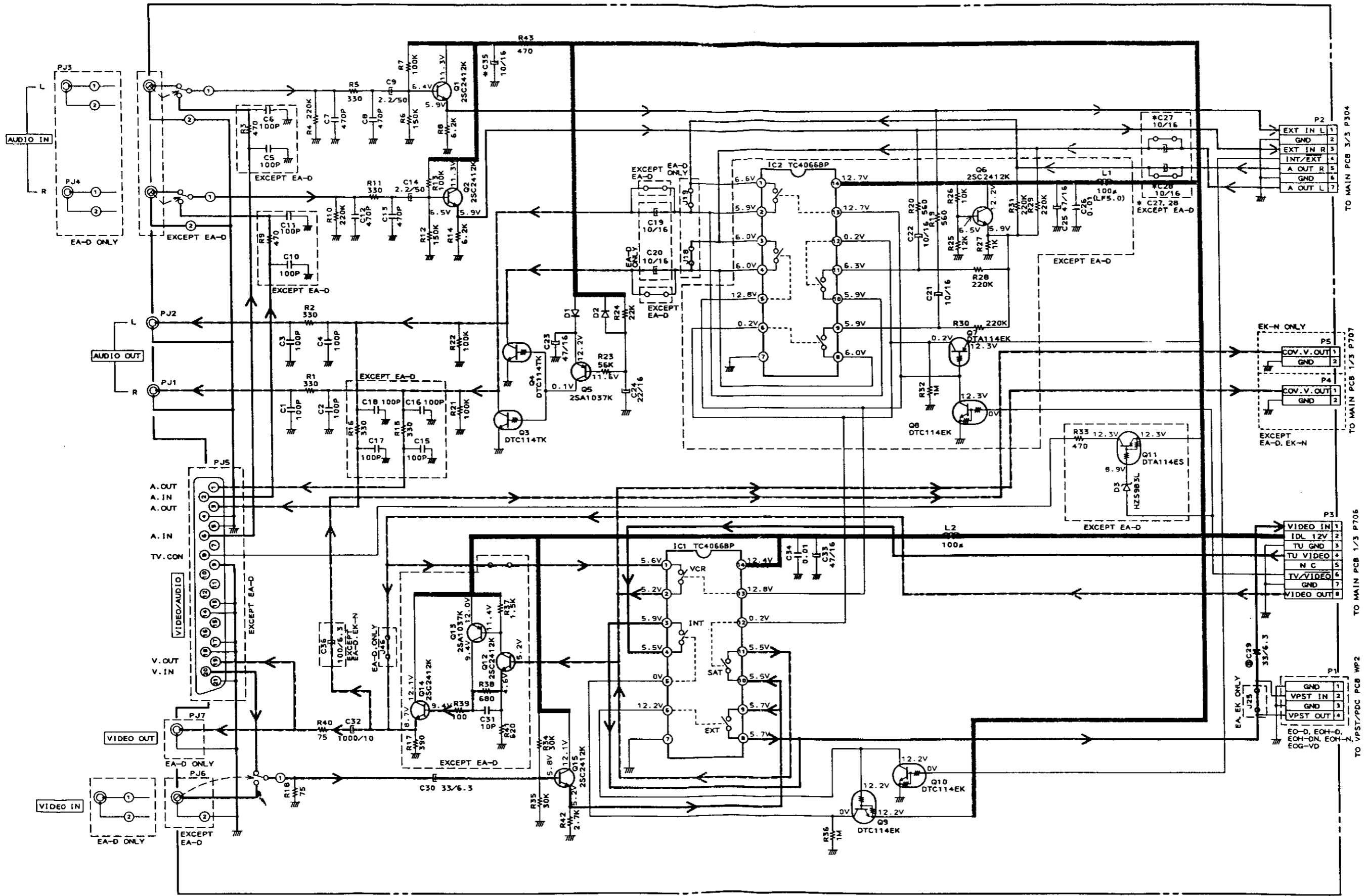
VS-F550E0H-N
VS-F560EK-N
VS-F590E0H-DN
NICAM
SCHEMATIC DIAGRAM
NO.15-10 VA03710M
A1



NICAM PCB 6A00418A1 (EK-N, EOH-N, EOH-DN)

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





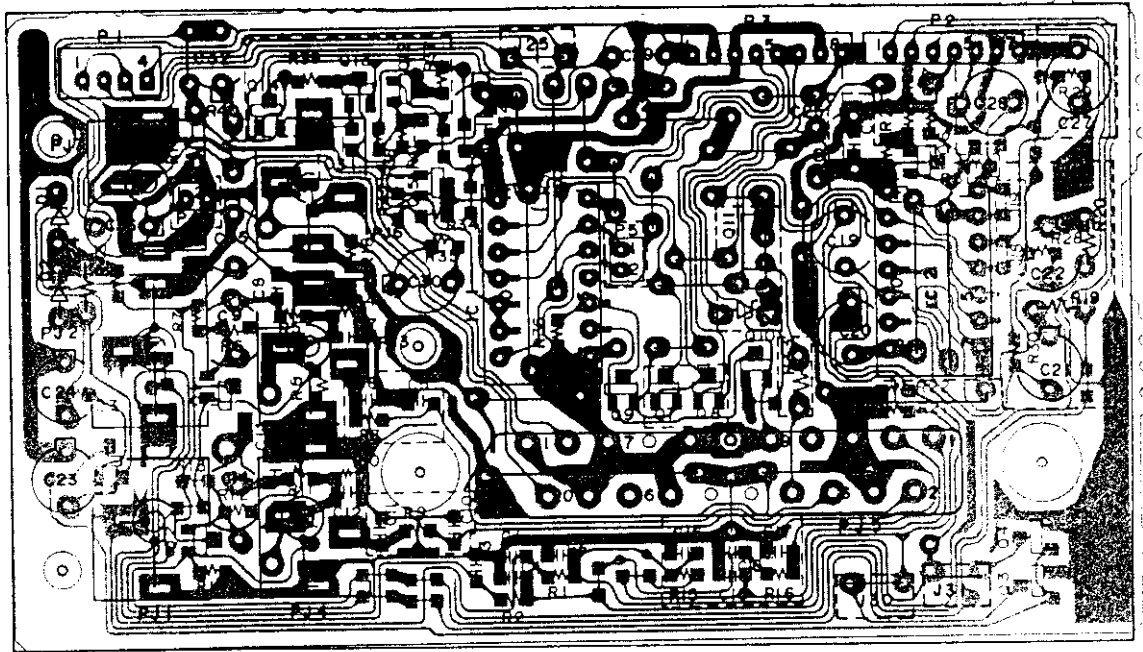
I/O PCB 6B00855C1

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

INDICATED VOLTAGES WERE MEASURED DURING FB MODE. (TAPE SPEED SP)

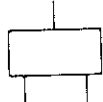
NOTE:
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN μ F (P-PF)
 ALL ELECTROLYTIC CAPACITORS IN μ F/WV
 *MX

VS-F550EA-D/EO-D/EOH-D/EOH-N
 VS-F560EK-N
 VS-F580EOG-VD
 VS-F590EOH-DN
 I/O
 SCHEMATIC DIAGRAM
 No.15-11 VA03711M
 A1



I/O PCB 6B00855C1

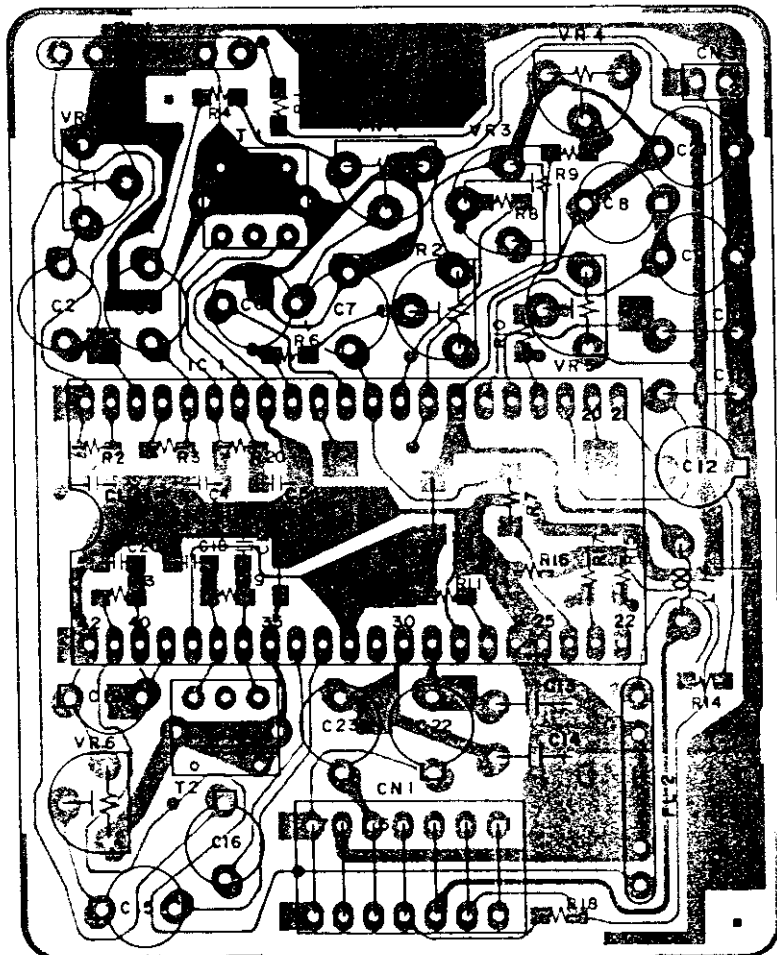
COLLECTOR



27

BASE EMITTER

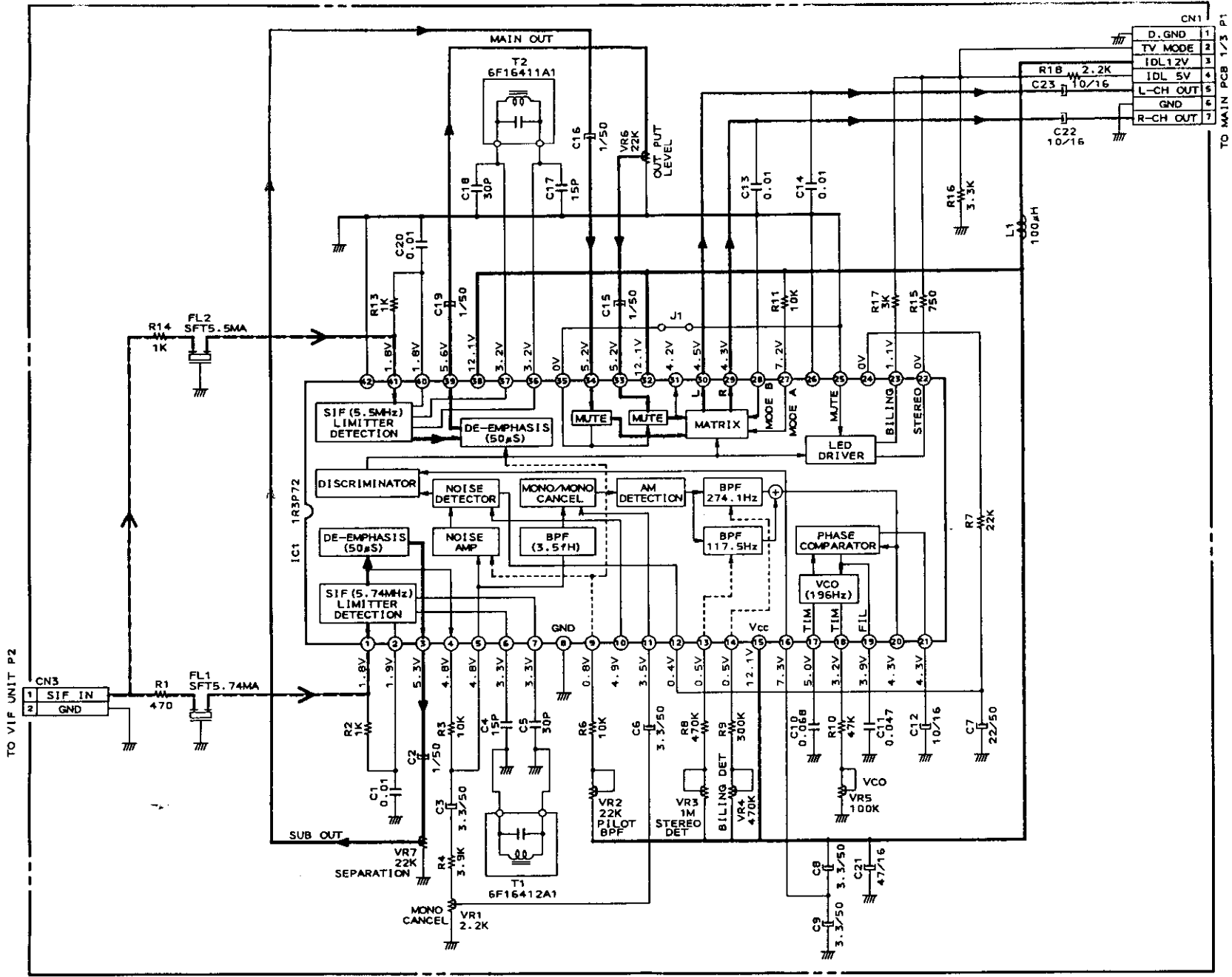
NOTE : PARTS DIFFER DEPENDING ON MODEL NUMBER.
REFER TO SCHEMATIC DIAGRAMS FOR PARTAINING
PARTS INFORMATION.



D MULTI PCB 6C02423A1

(EA-D/EO-D/EOH-D/EOG-VD ONLY)

28



TO VIF UNIT P2

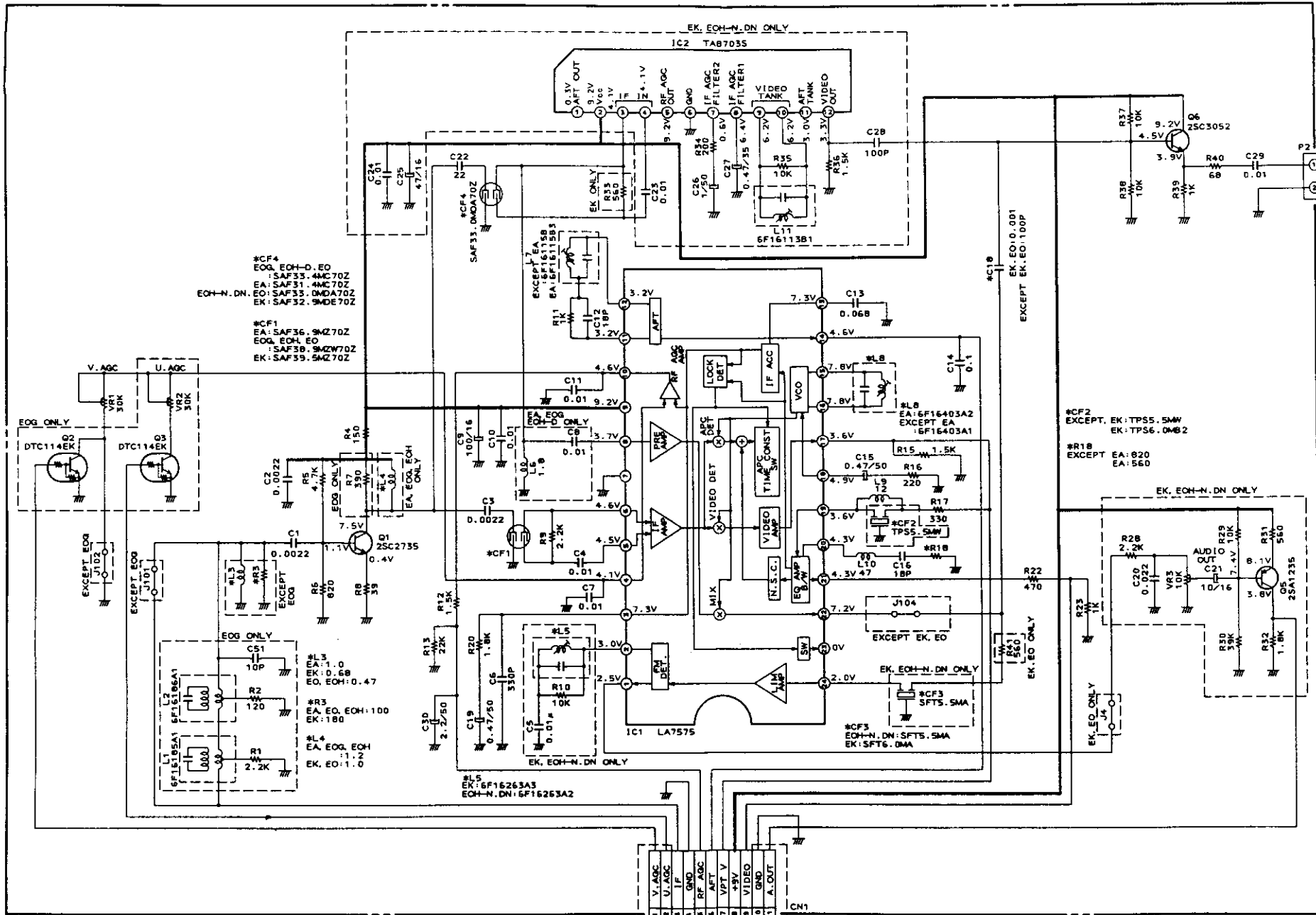
TO MAIN PCB 1/3 P1

D MULTI PCB 6C02423A1

————— : POWER SUPPLY LINE
 - - - - - : AUDIO IF SIGNAL LINE
 ———— : AUDIO SIGNAL LINE
 INDICATED VOLTAGES WERE MEASURED IN
 E-E. STEREO MODE.

NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS
 ALL CAPACITORS IN μ F
 ALL INDUCTORS IN μ H
 ALL DIODES ARE 1S5131T

VS-F550EA-D/EO-D/EOH-D
 VS-F580EOG-VD
 D.MULTI
 SCHEMATIC DIAGRAM
 No.15-12 VA03712M
 A2



TO D. MULTI. PCB. CNS
OR MICAM. PCB. CNS

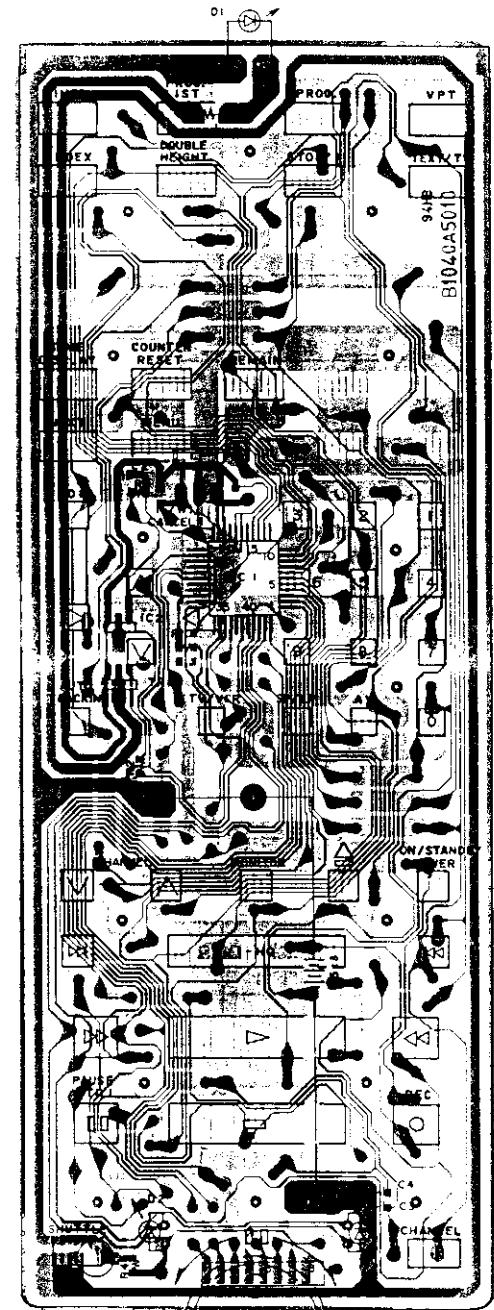
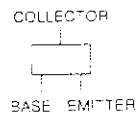
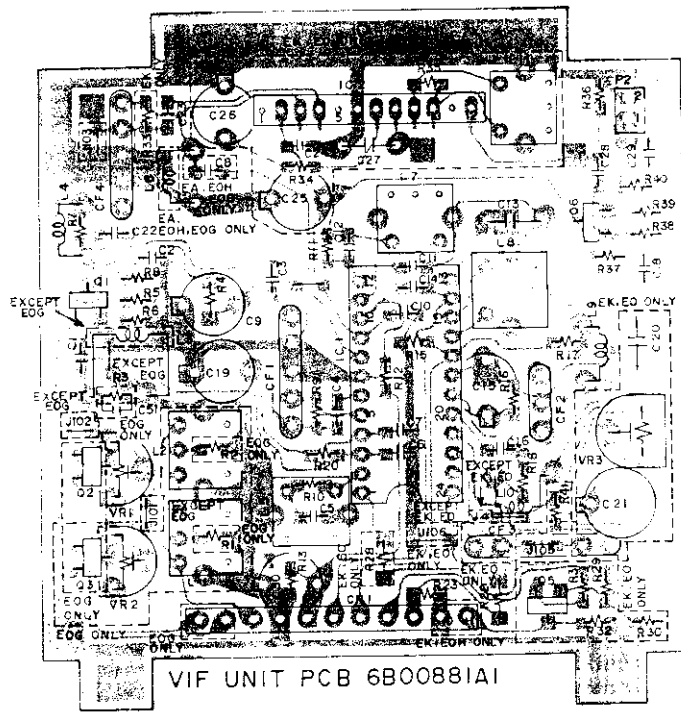
VIF UNIT PCB 6B00881A1

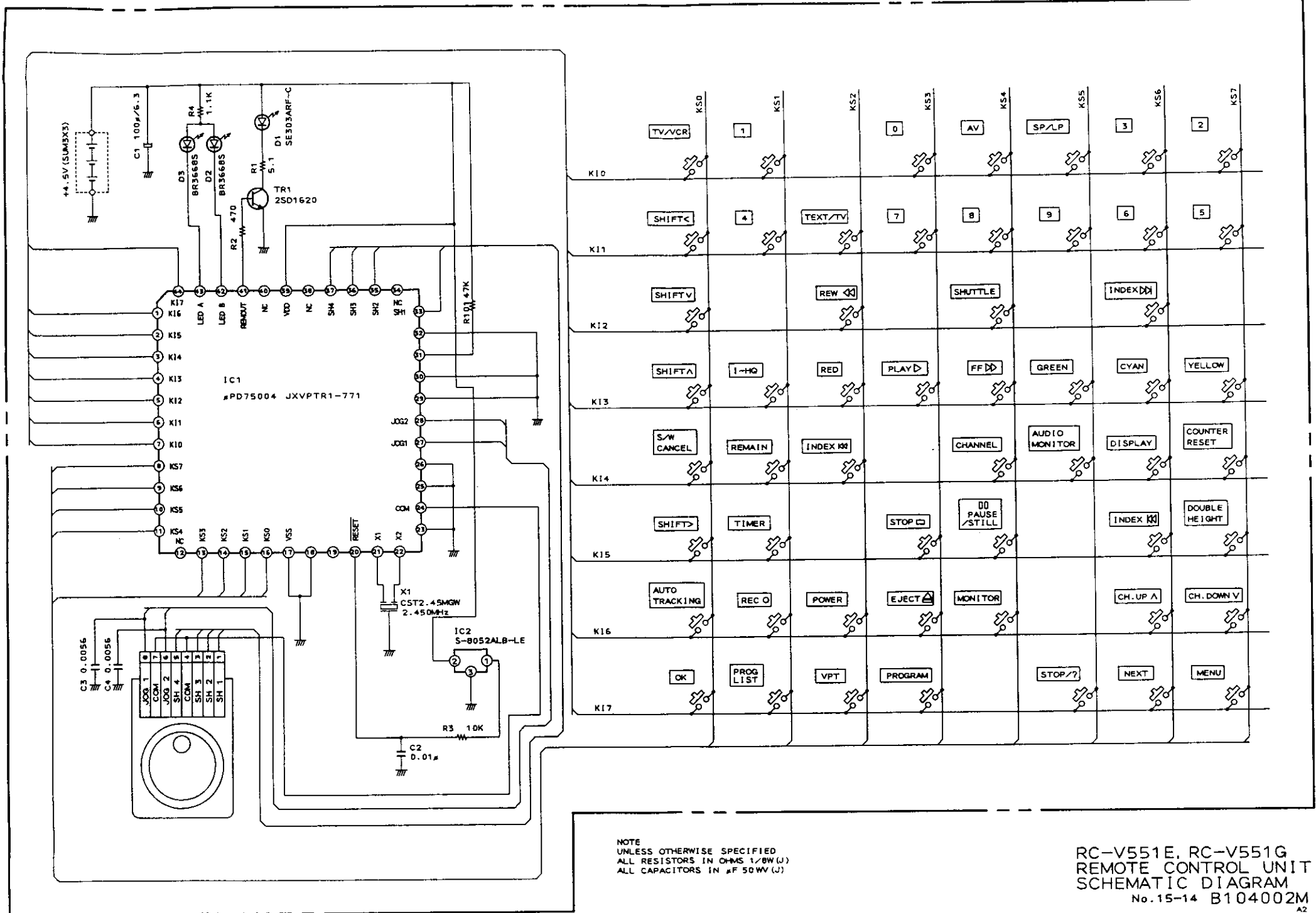
INDICATED VOLTAGES WERE MEASURED
DURING E-E (STOP) MODE.
(WHEN A STATION IS BEING RECEIVED)

————— : POWER SUPPLY LINE

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

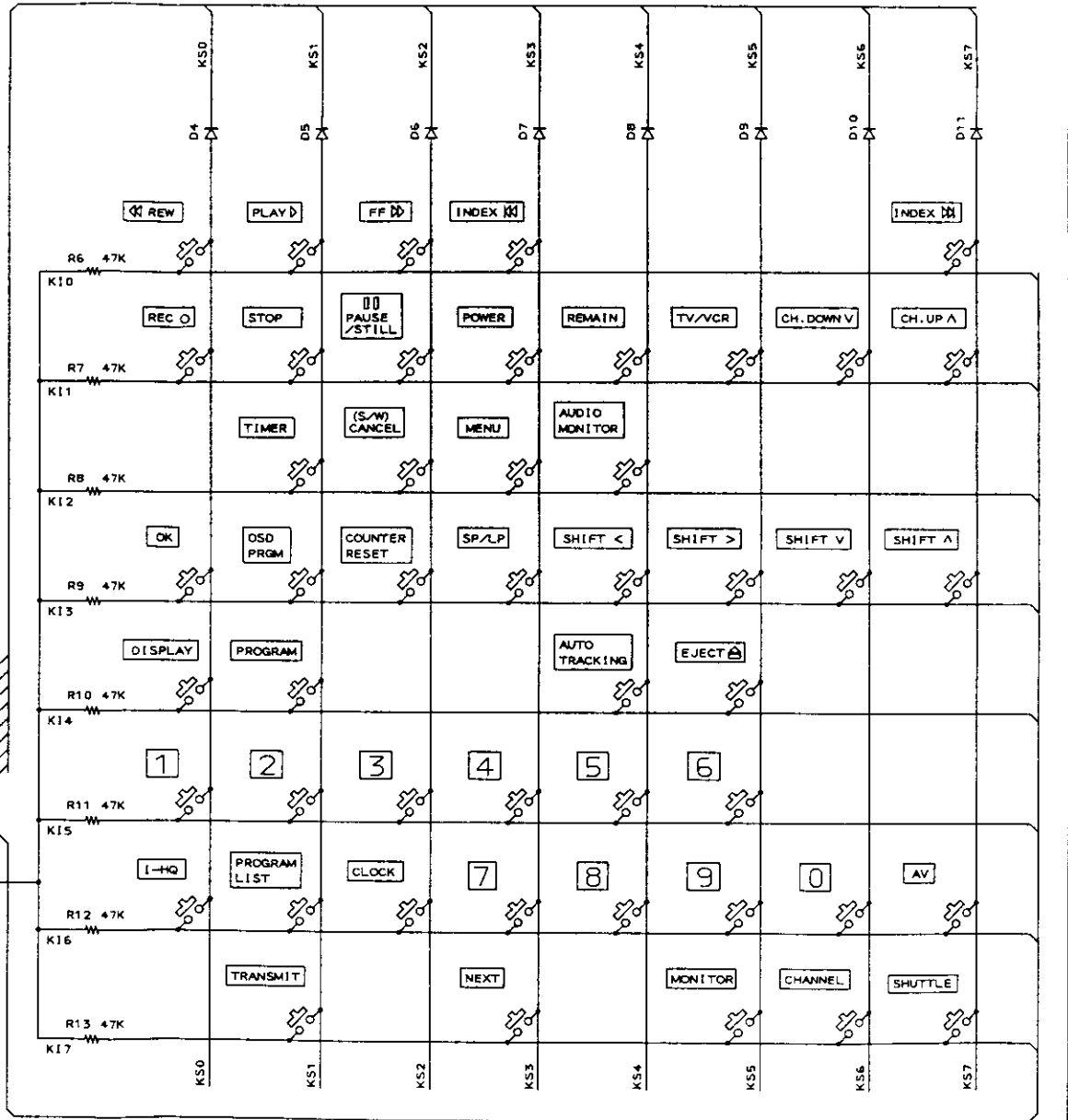
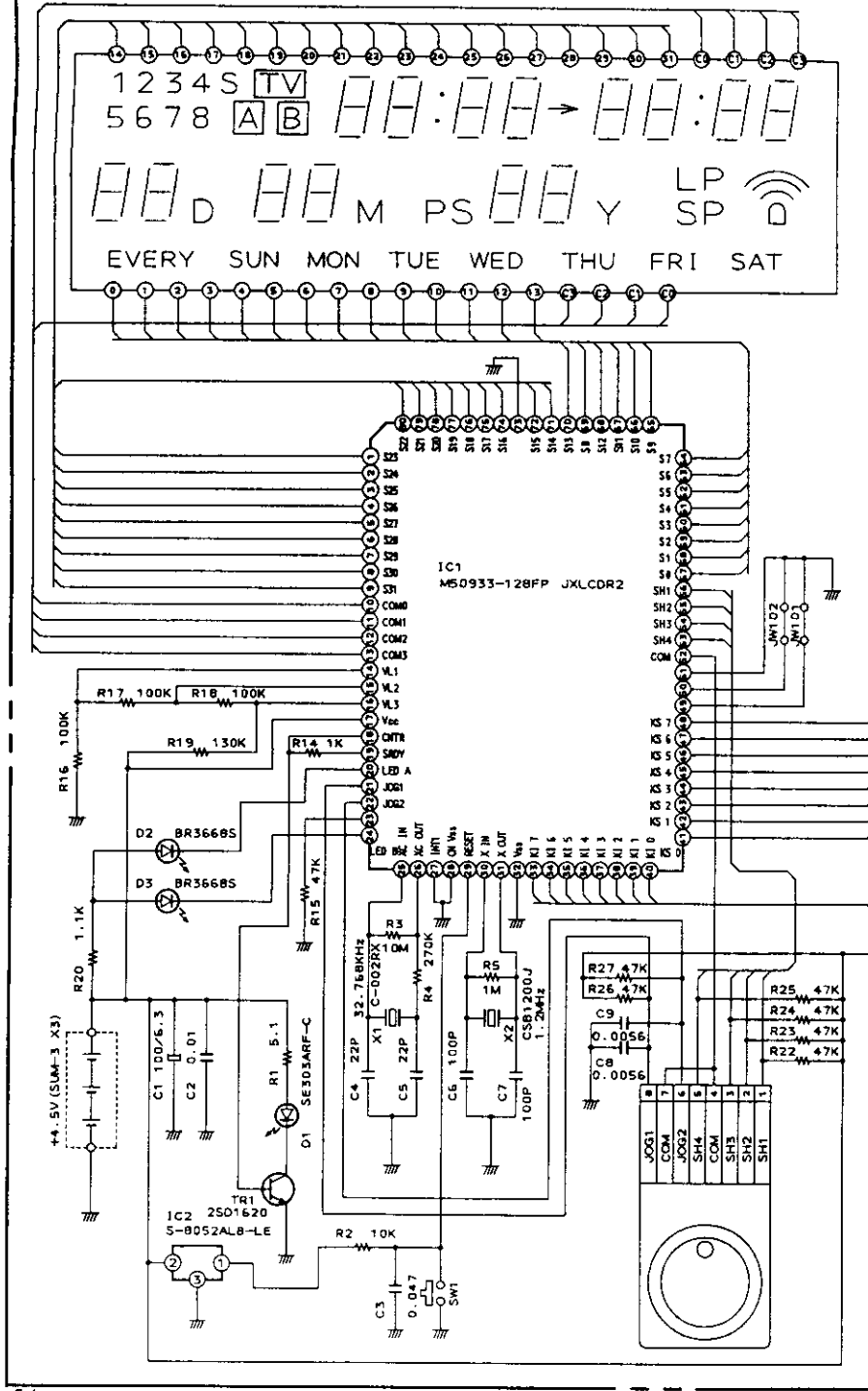
VS-F550EA-D/EO-D/EOH-D/EOH-N
VS-F560EK-N
VS-F580EOG-VD
VS-F590EOH-DN
VIF UNIT
SCHEMATIC DIAGRAM





NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/BW(J)
 ALL CAPACITORS IN uF 50WV(J)

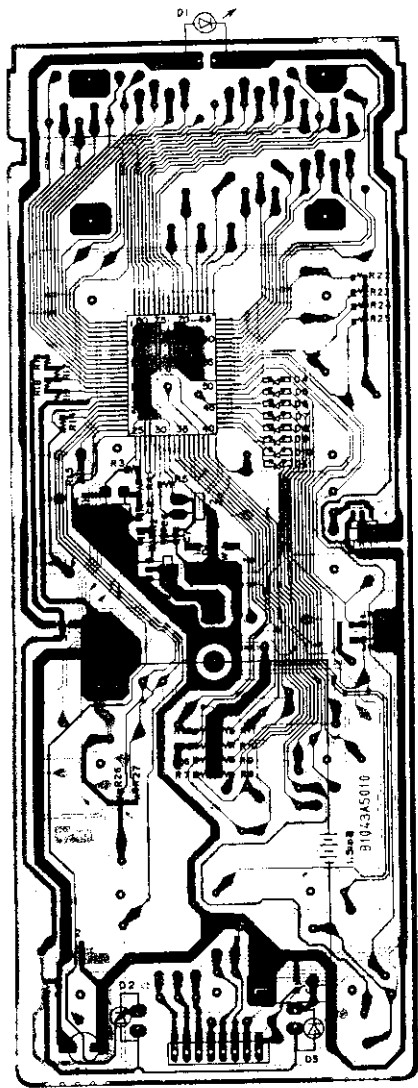
RC-V551E, RC-V551G
 REMOTE CONTROL UNIT
 SCHEMATIC DIAGRAM
 No. 15-14 B104002M
 A2



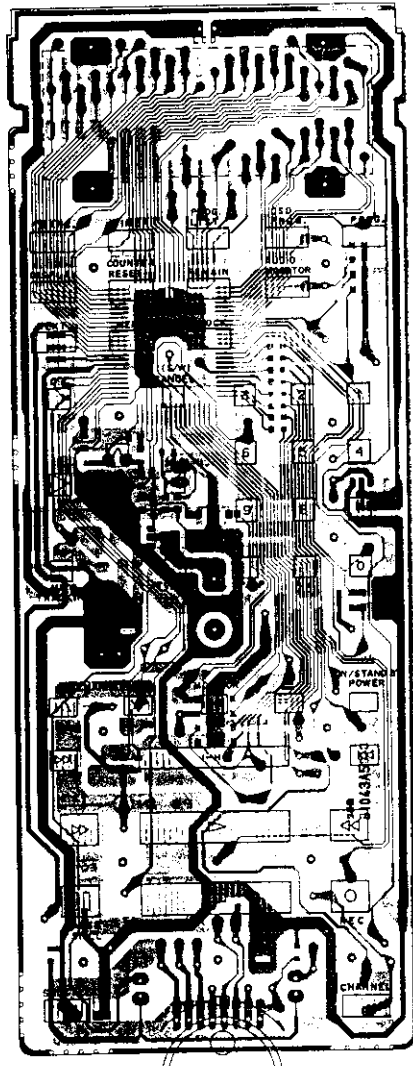
REMO-CON PCB B1043A5010

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

RC-V552E
 REMOTE CONTROL UNIT
 SCHEMATIC DIAGRAM
 No. 15-15 B104304M
 A2

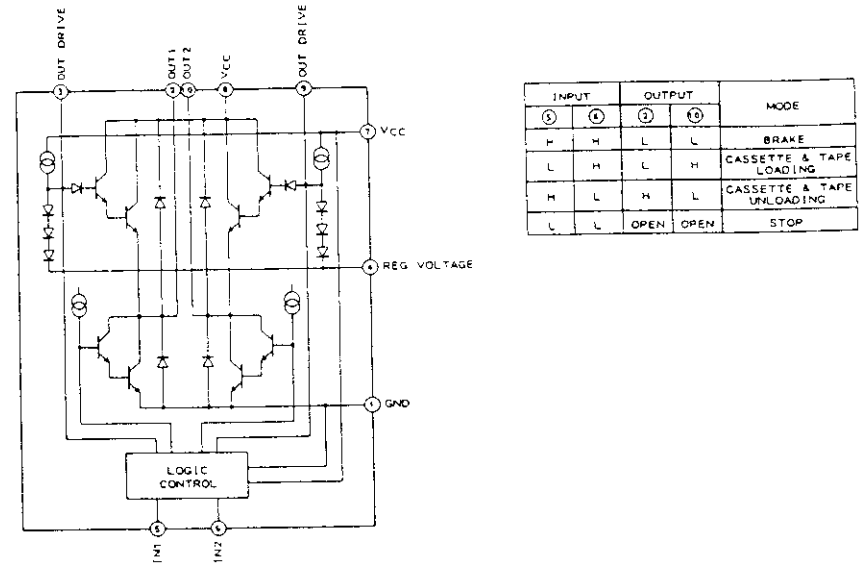


REMO-CON PCB B1043A5010J1
(PARTS LOCATION)

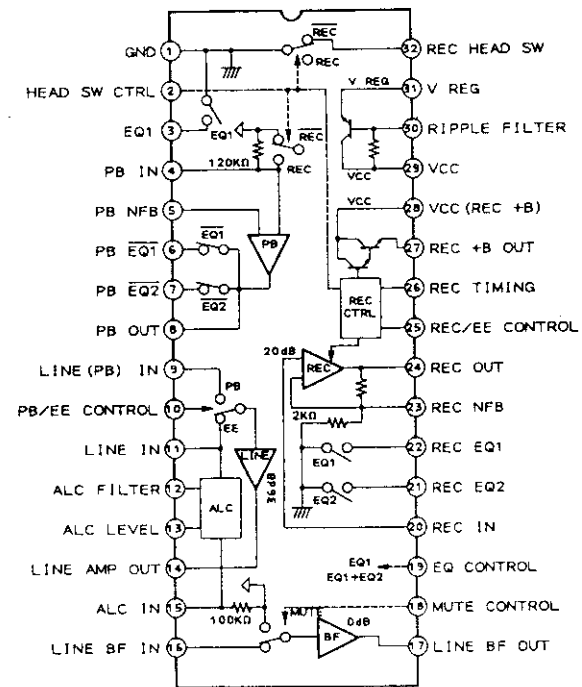


REMO-CON PCB B1043A5010J1
(SWITCH LOCATION)

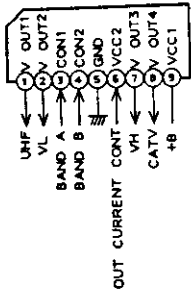
BA6229 (BI-DIRECTIONAL MOTOR DRIVE)



BA7765AS (AUDIO SIGNAL REC/PB AMPLIFIER)



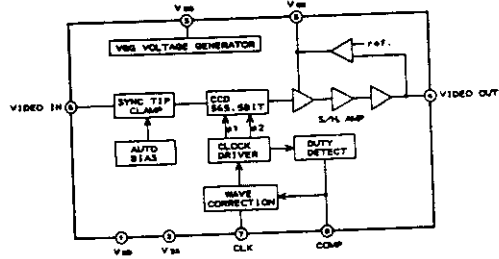
LA7910 (TUNER BAND SELECTOR)



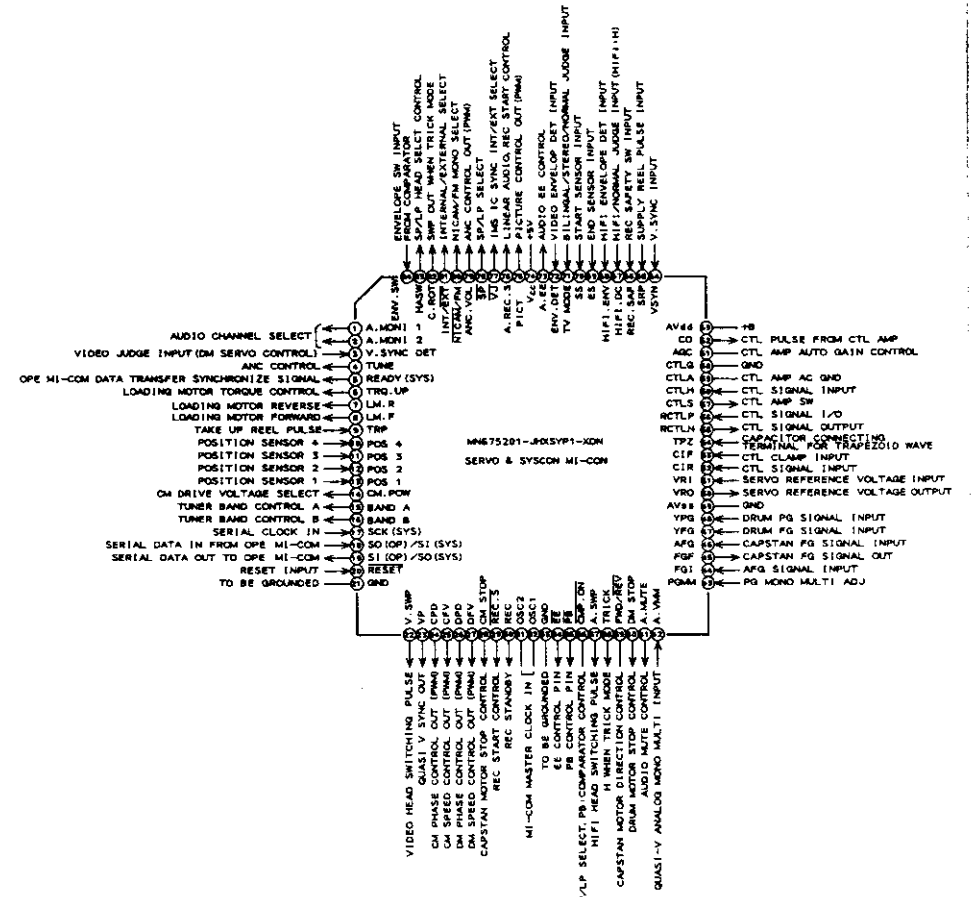
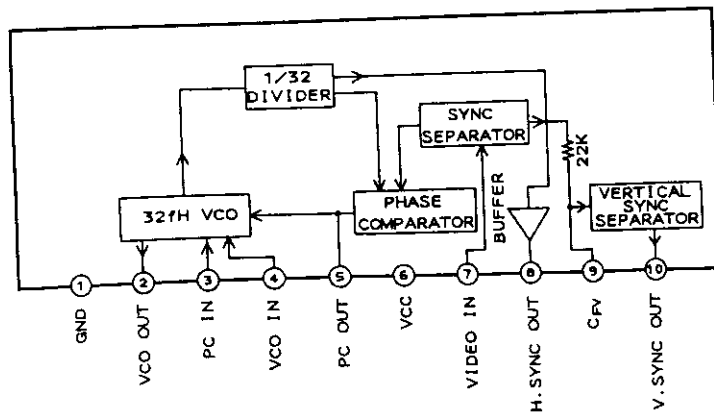
| INPUT | | OUTPUT | | | |
|-------|------|--------|--------|--------|--------|
| CON1 | CON2 | V OUT1 | V OUT2 | V OUT3 | V OUT4 |
| L | L | H | Z | Z | Z |
| H | L | Z | H | Z | Z |
| L | H | Z | Z | H | Z |
| H | H | Z | Z | Z | H |

Z: HIGH IMPEDANCE

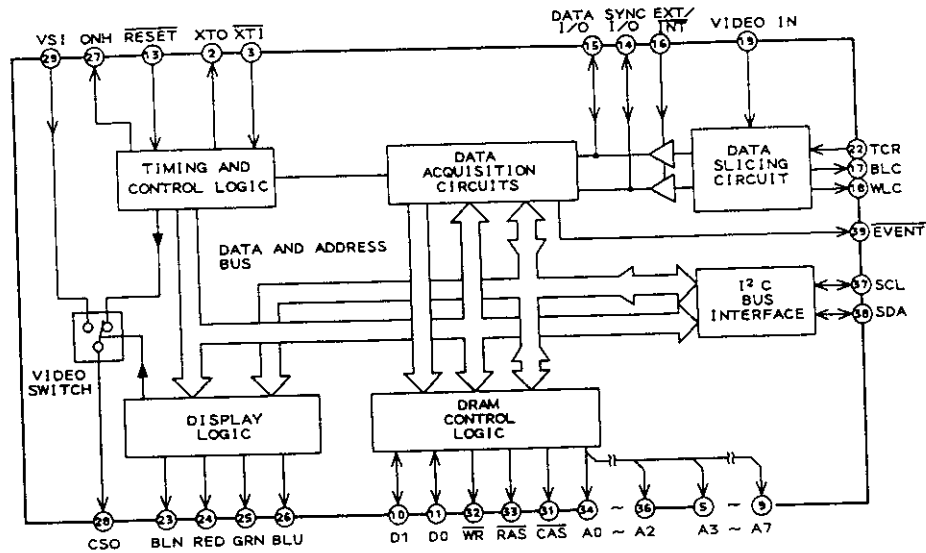
LC8992 (CCD 1H DELAY LINE)



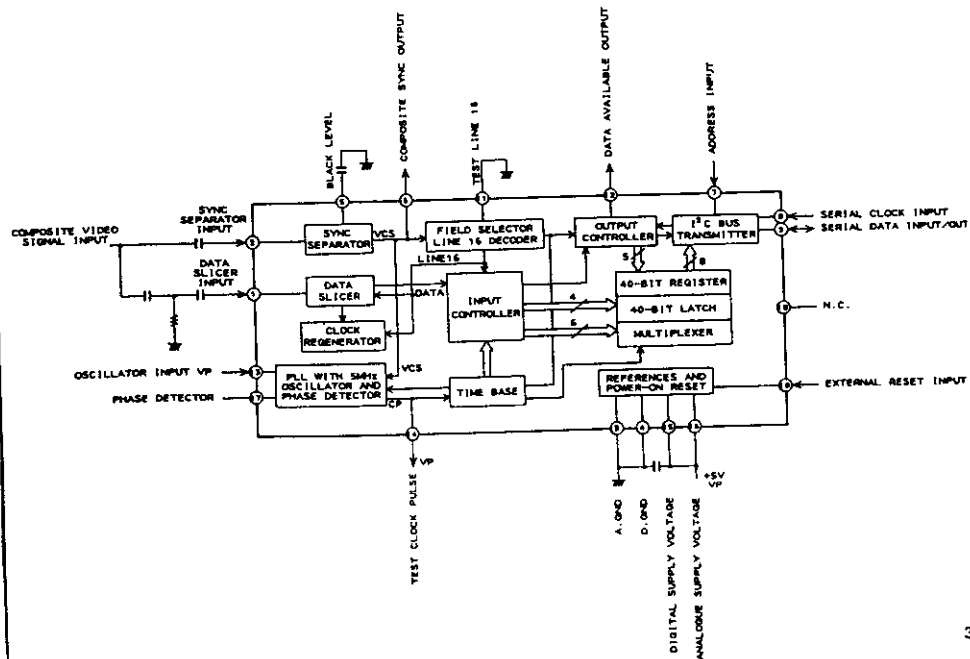
MM1068XS (SYNC SEPARATOR)



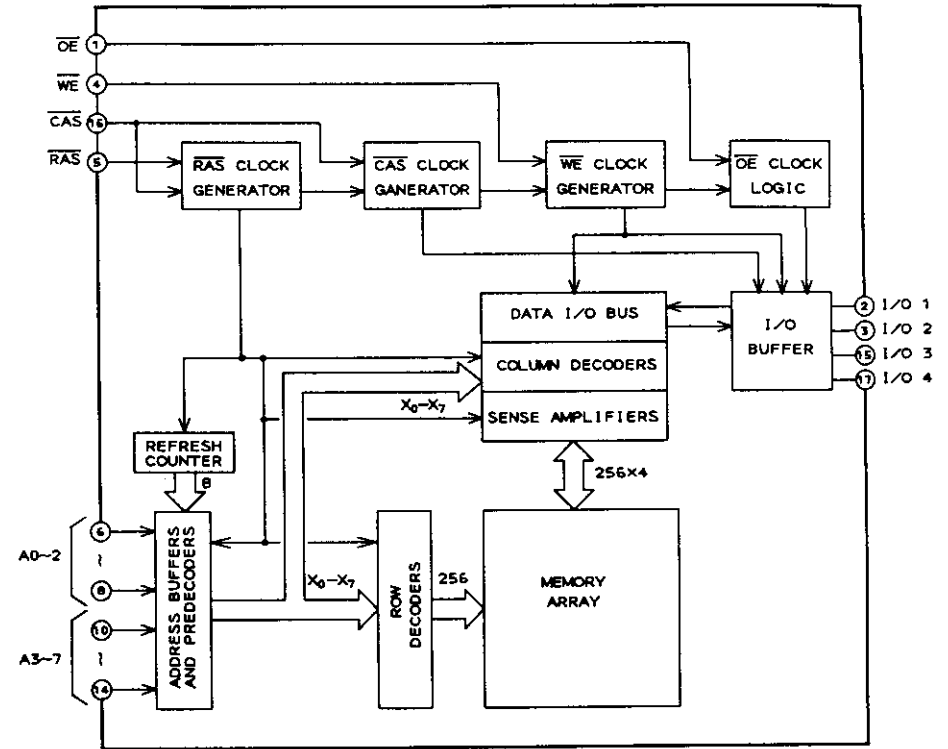
MV1815 (TELETEXT DECODER FOR 625 LINE OPERATION)



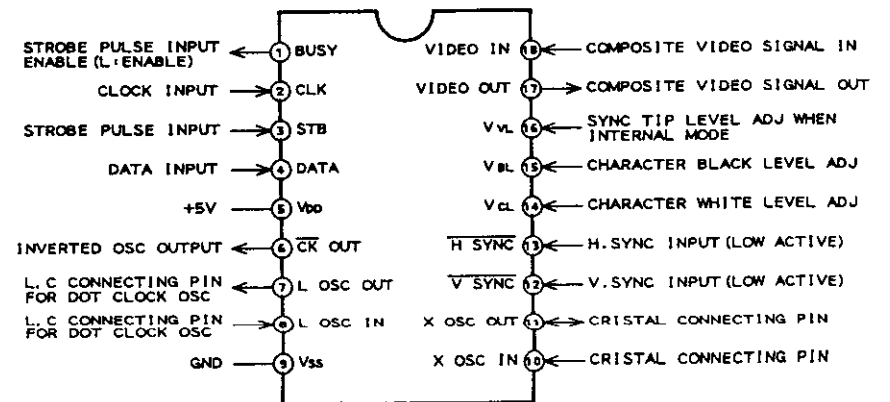
SAA4700 (VPS DATALINE PROCESSOR)



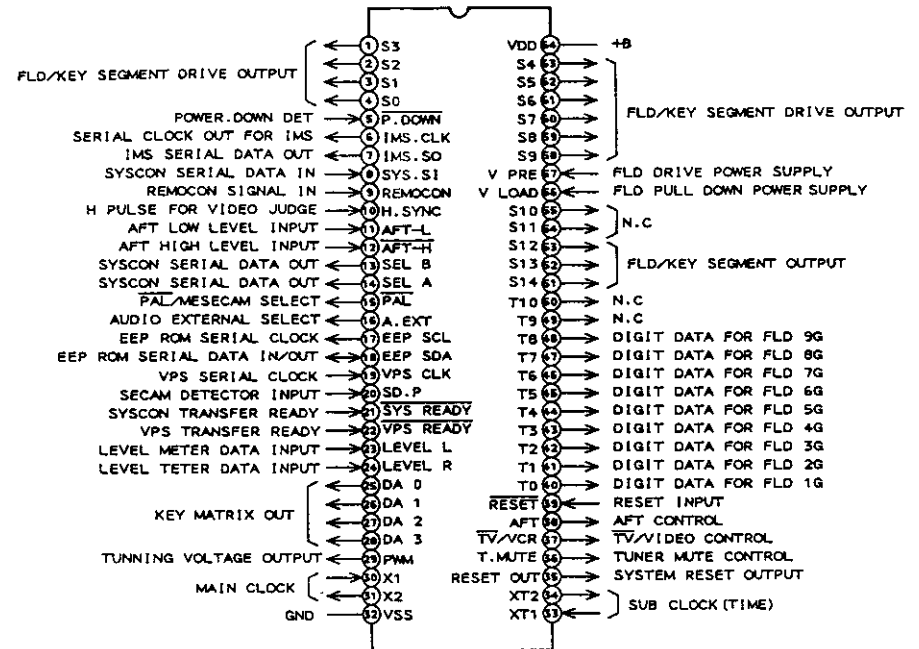
V53C464A (64K x4 BIT D-RAM)



μPD6450 (CHARACTER GENERATOR)



μPD75217 JHXOPP1 (OPERATION MI-COM)



μPD75218CW (VPT/PDC MI-COM)

