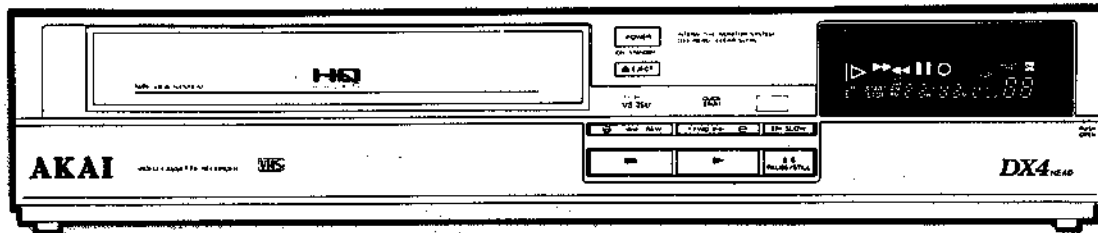




V04934

VS-35U

AKAI SERVICE MANUAL



VIDEO CASSETTE RECORDER

MODEL VS-35U

MODEL VS-33U/UM

SPECIFICATIONS

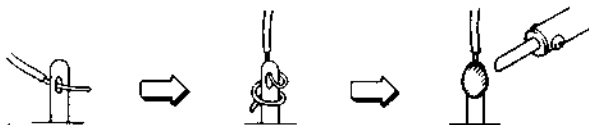
Format	VHS standard	Tape speed	
Video recording system	Rotary, slant azimuth two-head helical scan system	SP mode	33.35 mm/sec. (1-5/16 i.p.s.)
Rotary heads	4 video heads	LP mode	16.68 mm/sec. (PB only) (21/32 i.p.s.)
RF input	System M	EP mode	11.12 mm/sec. (7/16 i.p.s.)
	VHF ch 2 - 6, 7 - 13	Quick finder	
	UHF ch 14 - 83	SP mode	approx. 7 times normal speed
	CABLE ch A-1, A-2, A - I, J - W	EP mode	approx. 9 times normal speed
RF output	System M type modulation	FF, REW time	approx. 5 min. with T-120 cassette
	VHF ch 3, 4 switchable (preset ch 4)	Timer	
Recording (line input)	525/60, NTSC	Program VS-35	8 program/1 month and QUICK TIMER
Playback (line output)	525/60, NTSC	VS-33	4 program/1 month and QUICK TIMER
Video		Clock reference	Quartz crystal
Line input level	0.5 - 2.0 Vp-p/75 ohms, unbalanced	Display	TV screen & FL (Tape counter, Timer etc.)
Line output level	1.0 Vp-p/75 ohms, unbalanced	Power requirements	120 V AC, 60 Hz (VS-33U, VS-35U) 110/220 V AC, 50/60 Hz (VS-33UM)
S/N ratio	more than 45 dB	Power consumption	U: 25W, UM: 21W
Horizontal resolution	more than 240 lines (SP mode)	Operating temperature	5°C - 40°C
Audio		Dimensions	16.5 (W) x 3.3 (H) x 13.4 (D) inches (425 x 84 x 340 mm)
Line input level	-8 dBm/50 K ohms, unbalanced	Weight	12.1 lbs (5.5 Kg)
Line output level	-6 dBm/ 1 K ohms, unbalanced		
S/N ratio	more than 40 dB		
Frequency response	70 - 10,000 Hz (SP mode)		
Recording/playback time	160 min. with T-160 cassette on SP mode 480 min. with T-160 cassette on EP mode		

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

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

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



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for **C** or **A**, specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

★ INFORMATION

Quick Start function

This VCR contains the Quick Start function.

This means that when a cassette tape is inserted into the VCR or the Power is turned on with a cassette tape in the VCR, the tape will be loaded automatically, and at the same time QUICK START indicator will be turned on and the Drum Motor will be started to rotate.

* If the VCR is neglected in stop mode for several minutes, the Quick Start function will be automatically canceled. Accordingly, QUICK START indicator will be turned off and the Drum Motor will be stopped with the tape loaded. When the Power is turned off with a cassette tape in the VCR, the tape will be unloaded and remain in the VCR.

Auto functions

This VCR contains the following Auto functions.

1. If a cassette tape is inserted when the POWER is off, the POWER will be automatically turned on.
2. If a cassette tape without its recording safety tab is inserted, the VCR will automatically begin to play-back the tape.
3. While a cassette tape without its recording safety tab is in the VCR, if the REC button is pressed, the cassette tape will be ejected automatically.
4. Even if the POWER is OFF, the cassette tape can be ejected by pressing the EJECT button.
5. Between the hours of 23:00 and 6:00, if the VCR is not in use, the front panel display is automatically dimmed to a lower light level.

EDIT switch

The EDIT switch is used only when you want to record from this VCR to another VCR. When recording on another VCR, you may not want to record the Monitor Displays as they appear on this VCR (for example, the PLAY ► indicator, STOP ■ indicator etc.), onto the new tape. In that case, set the EDIT switch to ON. Now when you press a tape transport button, the indicator appears only on the VCR's front panel display, not on the TV screen or the new tape.

Safety Lock system (Remote control only)

This VCR's PLAY button can be locked to prevent access by small children.

To lock: With the VCR POWER ON, depress and hold the remote control's STOP button for about 8 seconds. An "L" will appear on the front panel display. Tape play will not function until the VCR is unlocked.

To unlock: Depress and hold the remote control's PLAY button for about 8 seconds.

Even if the POWER is turned off, the VCR PLAY mode will remain locked until released. Other modes will remain operable.

INDEX SEARCH system (Remote control only)

This VCR is equipped with the INDEX SEARCH system which allows you to directly locate the beginning of any recorded segment on a tape, within 9 segments of your starting point, in either forward or reverse direction, provided the recording was made on this VCR, or providing the recording is equipped with control signals. Each time a recording is made on this VCR, i.e. each time the REC button is pressed, a control signal is automatically recorded along with the program. This means that even while a recording is being made, if you press the REC button again, a new control signal is added to the tape at that point. This feature is very convenient for marking any important point on a tape.

NOTE: When you press the REC button to begin recording from the recording standby mode (PAUSE/STILL button), new control signals will not be added.

Example 1: To search 4th program

1. Insert a recorded tape.
2. Let's say you are at the beginning of the tape and you want to view the 4th program on the tape. Press the right side of the INDEX SEARCH button 4 times. The VCR display shows the number of programs being searched, 4 in this case, along with the fast forward indicator and the **[S]** indicator. The TV display will also say Index 4. Both displays will count down as the VCR gets closer to the correct program, and then playback of segment 4 will begin automatically.

Example 2: To search 11th program then search 5th one from the beginning

1. Imagine that you have recorded 12 individual segments on a tape (Music videos for example). Let's say you want to view segment 11. Press the right side of the INDEX SEARCH button 9 times (the maximum). The VCR will fast forward to the beginning of segment 9 and begin playback.
2. Now press the right side of the INDEX SEARCH button 2 more times and the VCR fast forwards to segment 11 and begins playback.
3. Let's say segment 11 is finished and you want to go back and view segment 5. Since 11 is already finished, press the left side of the INDEX SEARCH button 7 times. The VCR will rewind all the way back to the beginning of segment 5 and begin playback.

INTRO SCAN system (Remote control only)

This VCR is capable of quickly fast forwarding to the beginning of each recorded segment on a tape, briefly playing back that segment, and then fast forwarding to the next segment.

This system also works in combination with the control signal which is recorded at the beginning of each recorded segment.

Press the INTRO SCAN button on the remote control. The VCR will immediately fast forward the tape to the beginning of the program and play about the first 8 seconds. Then, the VCR will again fast forward the tape to the beginning of the next recorded segment and again playback the first 8 seconds of the program.

This operation continues until the tape is finished or until you selected another mode (such as PLAY or STOP). While INTRO SCAN is searching, the F.FWD indicator lights and the PLAY indicator flashes. When INTRO SCAN is in playback, the F.FWD indicator flashes and the PLAY indicator lights. The **[S]** indicator lights all the time that INTRO SCAN is working.

Double speed playback (Remote control only)

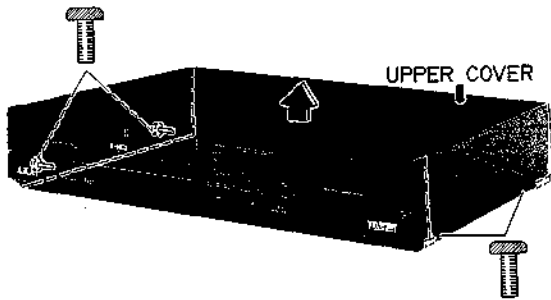
This VCR can play back a tape at twice its normal speed. (Only a tape recorded at SP speed) Press the x2 button on the remote control while the tape is in play. No sound will be heard in this mode. Press PLAY to resume normal speed.

I. DISASSEMBLY

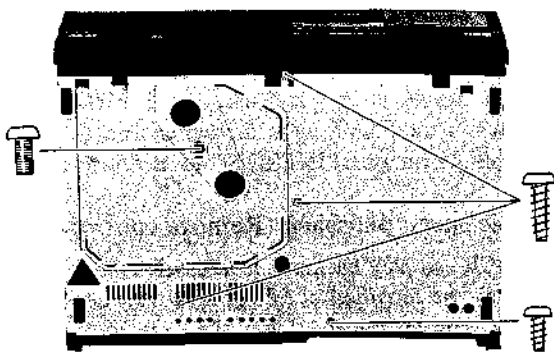
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

* Photographs employed here are of model VS-35EK.

1 Removal of Upper Cover

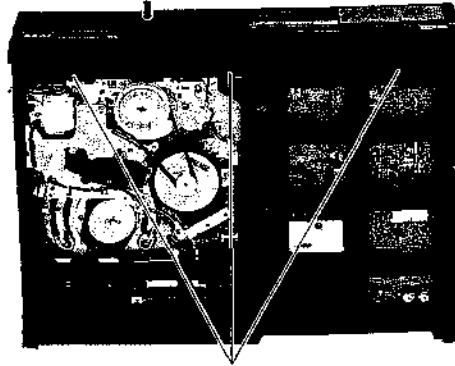


2 Removal of Bottom Cover



3 Removal of Front Panel

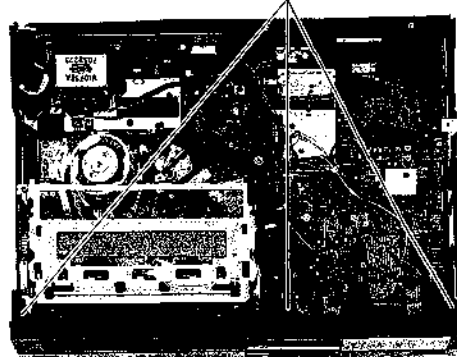
FRONT PANEL



UNFASTEN THE STOPPERS

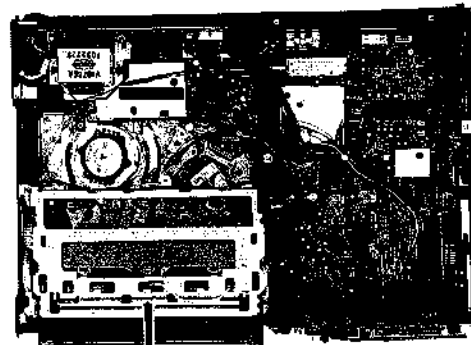
4

UNFASTEN THE STOPPERS



FRONT PANEL

5



* Please refer to "4-1-1 REMOVING THE EJECTOR BLK"

II. CONTROLS

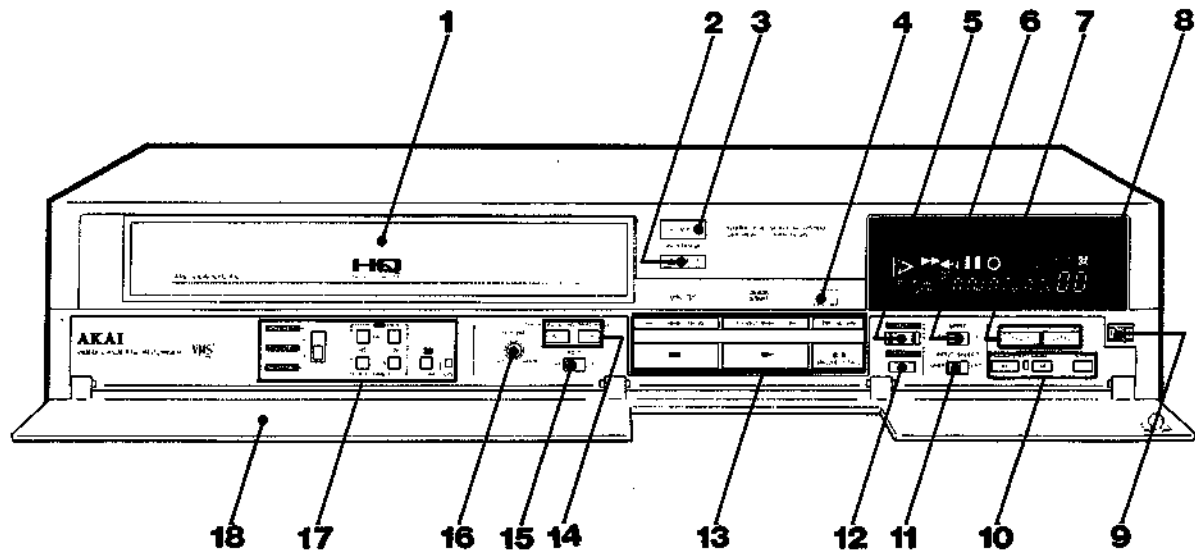


Fig. 2-1 Front View

1. **Load the video cassette tape here.**
2. **EJECT button.**
To eject the video cassette tape.
3. **POWER button.**
To turn on and off the Akai VCR.
4. **To receive the remote control signal from the Akai Wireless Remote Control Unit.**
* Keep this window clean for remote control operation.
5. **REC (Recording) button.**
6. **Tape SPEED selector.**
To set the tape speed for recording.
7. **CHANNEL selector.**
To select a preset channel with the built-in tuner of the VCR.
8. **VCR FL (Fluorescence) display.**
Tells you what the VCR is doing.
9. **Sub-panel door latch.**
10. **QUICK TIMER buttons.**
To preset recording end time or quick programme recording.
11. **INPUT SELECTOR switch.**
To switch between internal tuner and external input.
12. **TIMER button.**
To stand by for automatic recording.
13. **Tape transport buttons.**
To run the tape for recording or playback.
14. **TRACKING/SLOW TRACKING control.**
To fine tune the play back picture.
15. **EDIT switch.**
For removing the on-screen characters when making a tape on another VCR.
16. **SHARP/SOFT PICTURE control.**
To soften or sharpen the video picture.
17. **Tuning controls.**
To tune in preset channels.
18. **Sub-panel door.**

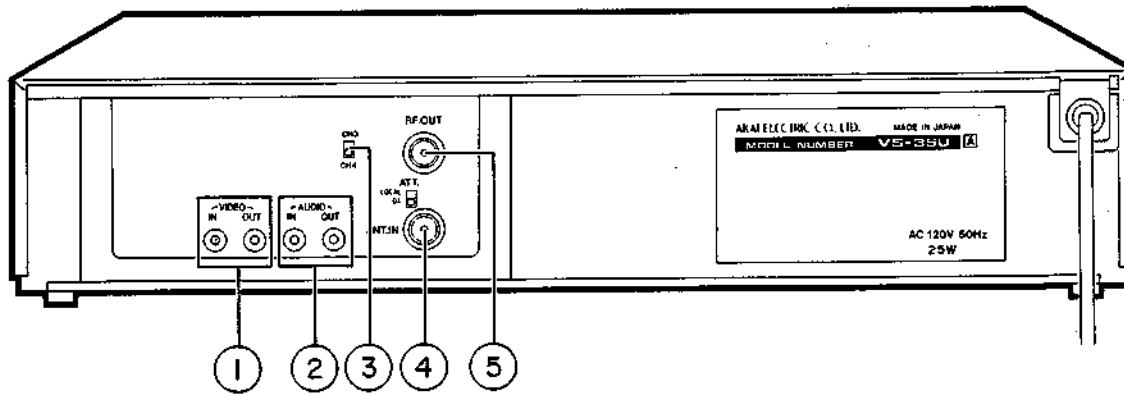


Fig. 2-2 Rear View

- | | |
|-----------------------|--------------------|
| 1. VIDEO IN/OUT JACKS | 4. ANT. IN JACK |
| 2. AUDIO IN/OUT JACKS | 5. RF OUT TERMINAL |
| 3. RF OUT CH. ADJ. | |

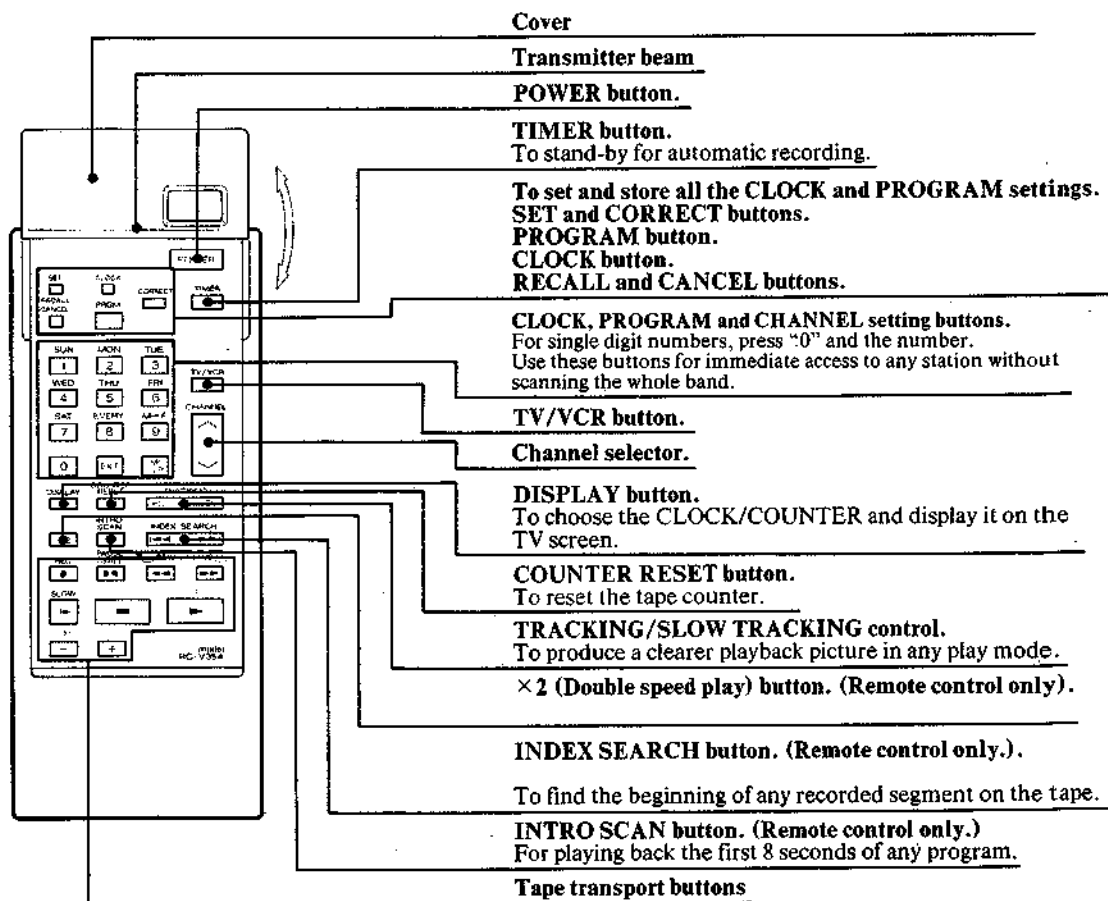


Fig. 2-3 Remote Control Unit

* The remote control contains operation buttons which are used the same way as the operation buttons on the front panel of the Akai VCR, and many which appear on the remote control only. The remote control can be used from a distance of up to 5 meters.

III. PRINCIPAL PARTS LOCATION

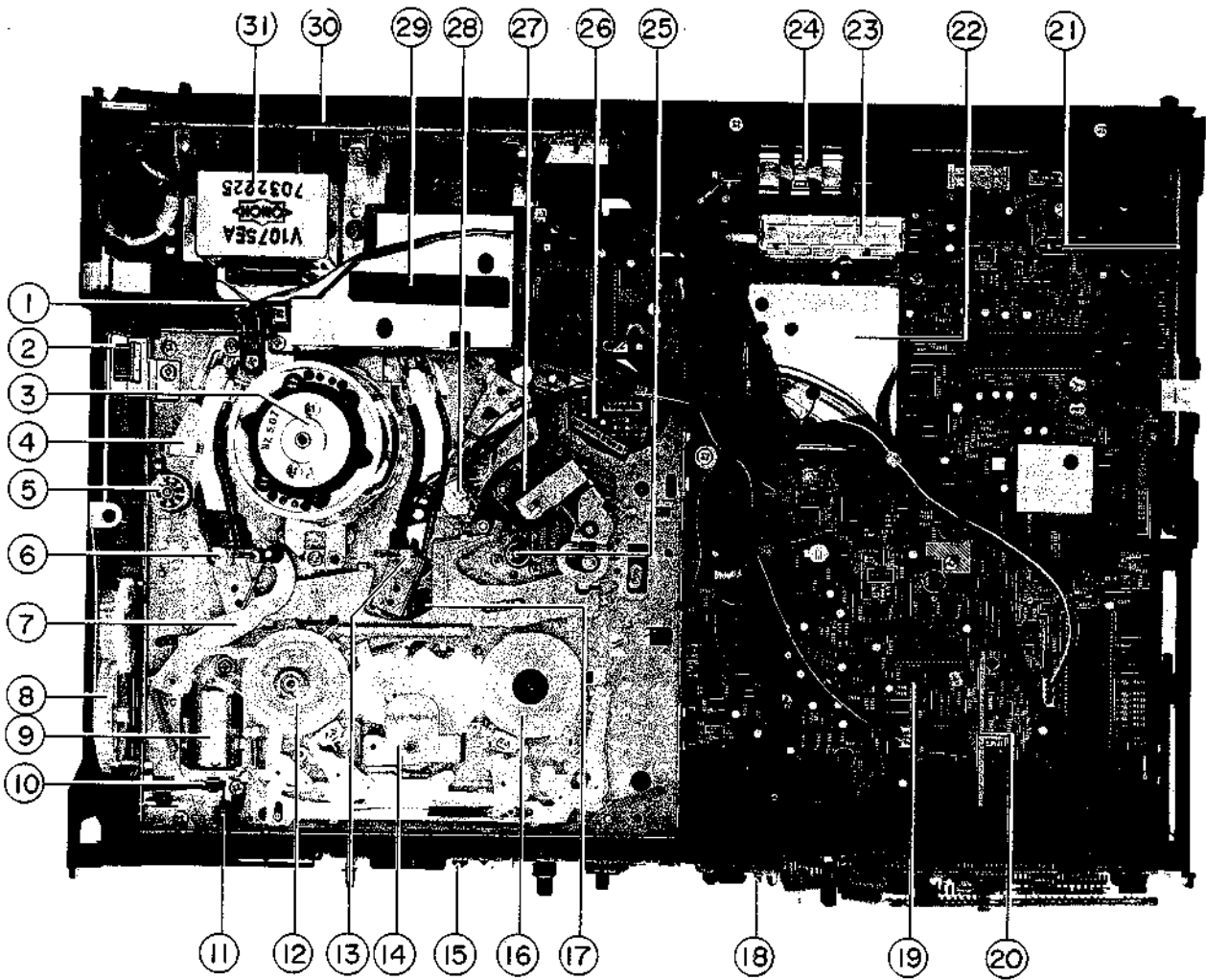


Fig. 3-1 Top View

- | | |
|---------------------------------|------------------------|
| 1. TR PCB | 17. SENSOR LED |
| 2. DIODE PCB | 18. OPERATION PCB |
| 3. HEAD DRUM BLK | 19. MAIN PCB |
| 4. FULL TRACK ERASE HEAD | 20. SUB PCB |
| 5. SUPPLY TAPE GUIDE | 21. CHROMA PCB |
| 6. S. LOADING LEADER (LEFT) | 22. VIF UNIT |
| 7. TENSION ARM | 23. TUNER UNIT |
| 8. LOADING MECH. BLK. | 24. RF CONVERTOR UNIT |
| 9. LOADING MOTOR | 25. CAPSTAN SHAFT |
| 10. LOADING BELT | 26. CAPSTAN MOTOR PCB |
| 11. REC SAFETY SWITCH | 27. PINCH ROLLER |
| 12. SUPPLY REEL TABLE | 28. AUDIO/CONTROL HEAD |
| 13. T.U. LOADING LEADER (RIGHT) | 29. PRE AMP PCB |
| 14. CLUTCH BLK | 30. POWER SUPPLY PCB |
| 15. PRESET PCB | 31. POWER TRANSFORMER |
| 16. TAKE-UP REEL TABLE | |

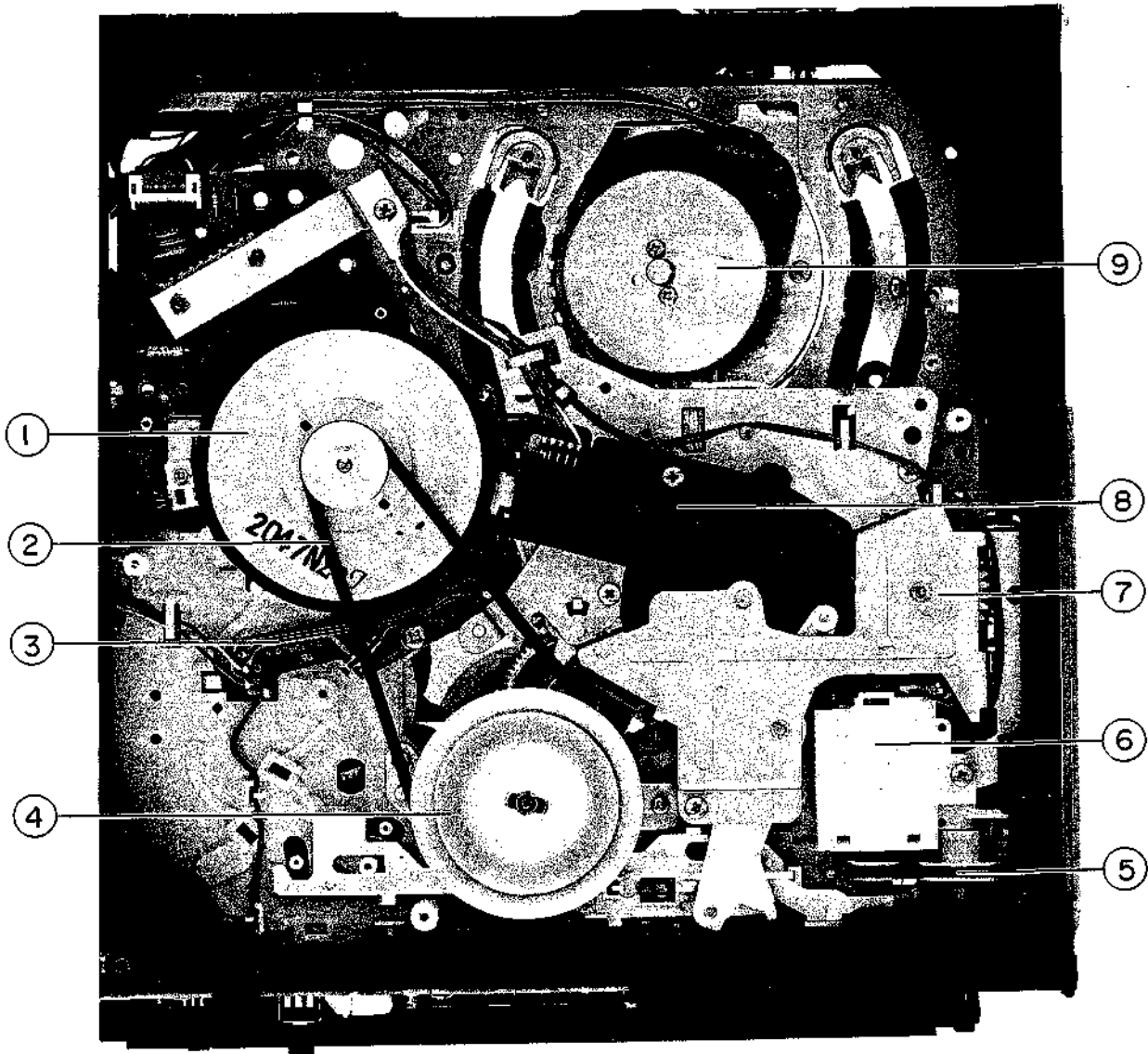


Fig. 3-2 Bottom View

- 1. CAPSTAN MOTOR BLK
- 2. IDLER BELT
- 3. SENSOR PCB
- 4. CLUTCH BLK
- 5. LOADING BELT

- 6. LOADING DRIVE BLK
- 7. LOADING MECH. BLK
- 8. MODE SELECTOR
- 9. DRUM MOTOR BLK

IV. MAIN COMPONENTS REPLACEMENT

4-1. EJECTOR BLOCK

4-1-1. REMOVING THE EJECTOR BLOCK

- 1) Depress the POWER button to turn ON the VCR and insert the Cassette tape into the VCR. The unit get to PLAY mode itself.
- 2) Depress the POWER button again to turn OFF the VCR. Disconnect AC power cord after confirm that completely tape is unloaded.
- 3) Take off two screws (A) and disconnect J504 from MAIN P.C. Board.
- 4) Remove the Ejector Block.

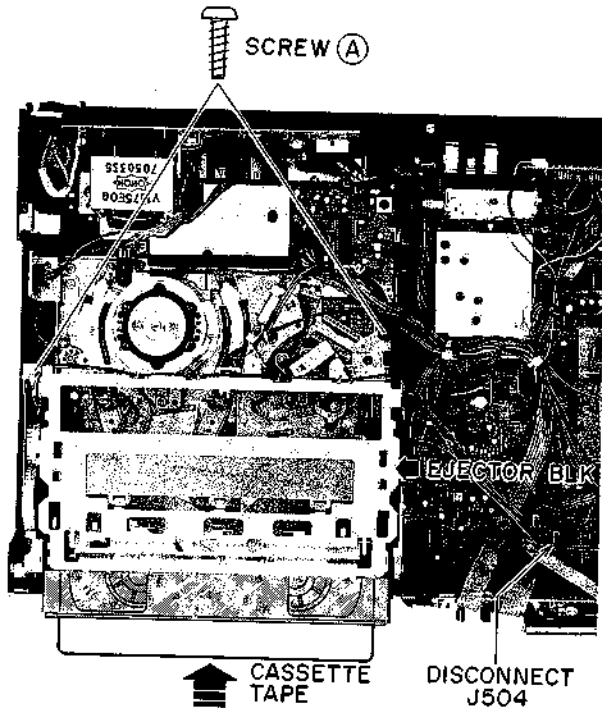


Fig. 4-1

4-1-2. INSTALLATION OF THE EJECTOR BLOCK

- 1) Install the Ejector Block on the MECHA. chassis as shown in Fig. 4-2.
- 2) Tighten two screws (A) and connect J504.
- 3) Plug in AC POWER CORD and Depress the POWER button to turn ON the VCR.
- 4) Confirm that unit will function correctly.

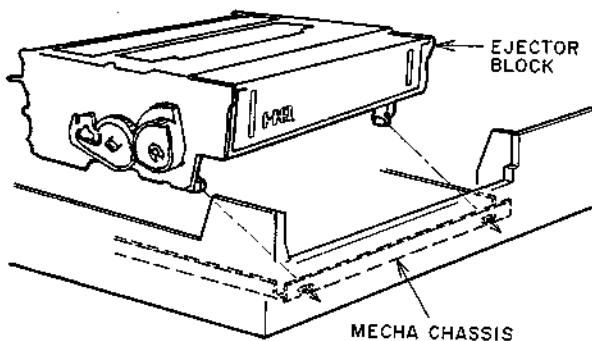


Fig. 4-2

4-2. LOADING MECHANISM BLOCK

4-2-1. REMOVAL OF MECHANISM BLOCK

- 1) Remove the Ejector Block. (Refer to 4-1-1. EJECTOR REPLACEMENT.)
- 2) Take out two screws (A) and remove the Transistor and the Diode.
- 3) Disconnect P700, P701 and P800 from the PRE-AMP P.C. Board.
- 4) Take out two screws (B) and remove the PRE-AMP P.C. Board.

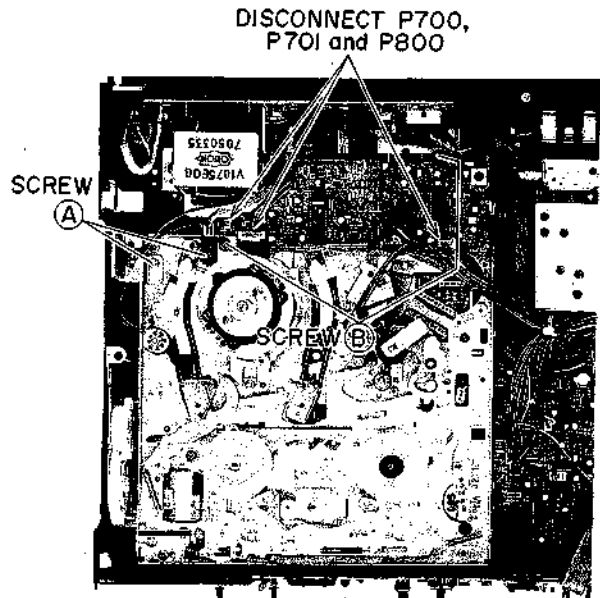


Fig. 4-3

- 5) Disconnect P502 from the DRUM MOTOR P.C. Board on the bottom of VCR.
- 6) Take out three screws (C) and remove the MECHA. BLK.

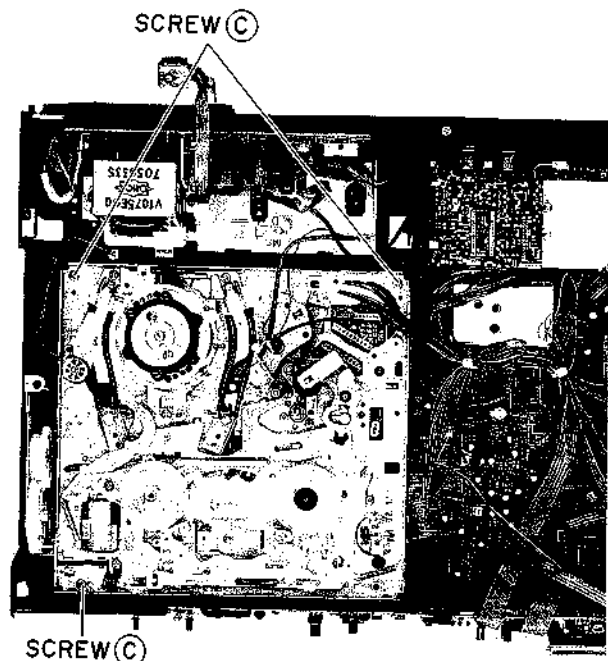


Fig. 4-4

4-2-2. REASSEMBLE OF THE LOADING MECHANISM BLOCK

1) Attach the GEAR FL DRIVE to chassis CAM GEAR PART.

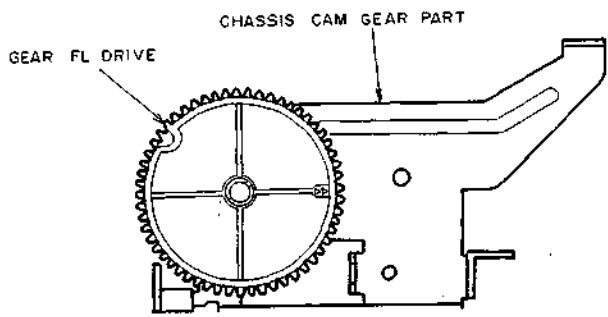


Fig. 4-5

4) Attach the LEVER CAM SLIDER as shown in Fig. 4-8.

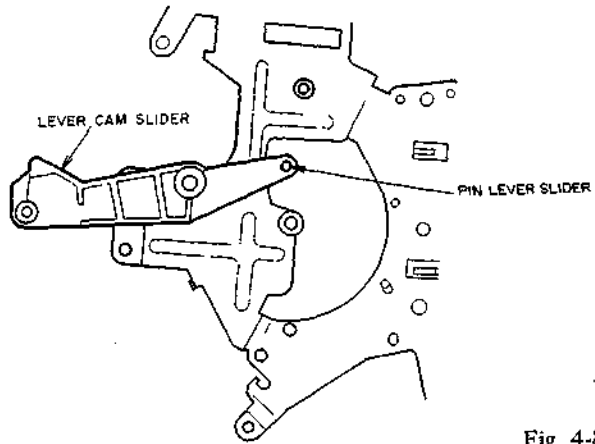


Fig. 4-8

2) Install the GEAR WARM PART as shown in Fig. 4-6.

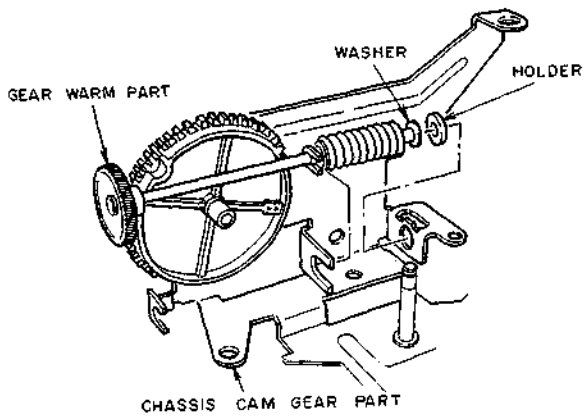


Fig. 4-6

5) Attach the GEAR CAM CENTER so that pin lever slider head is appeared from the hall A of the GEAR CAM CENTER.

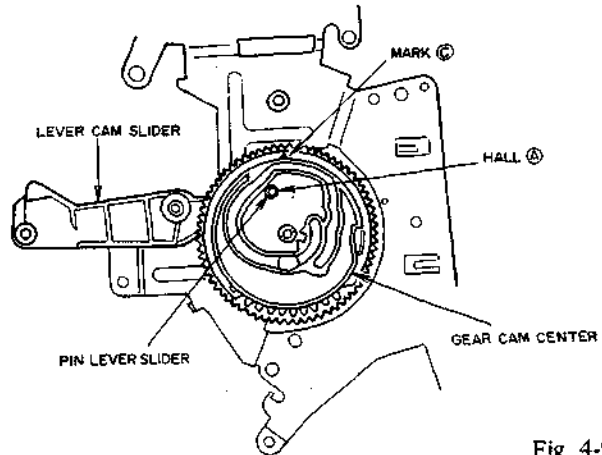


Fig. 4-9

3) Attach the GEAR WHEEL to CHASSIS CAM GEAR PART so that the GEAR FL DRIVE mark A meets the GEAR WHEEL mark (b-1), and fasten the GEAR WHEEL with slit washer.

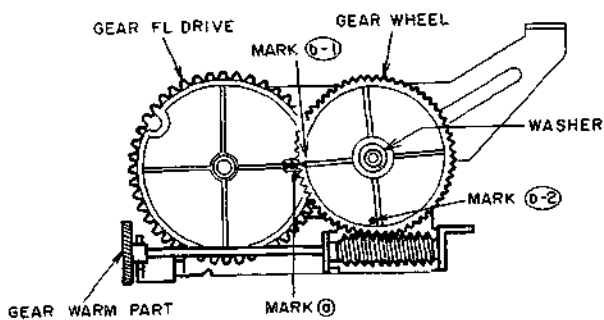


Fig. 4-7

6) Attach the GEAR CAM TENSION so that the GEAR CAM TENSION mark (d-1) meets the GEAR WHEEL mark (b-2), and moreover the GEAR CAM CENTER mark C should be located between the marks (d-2) of the GEAR CAM TENSION.

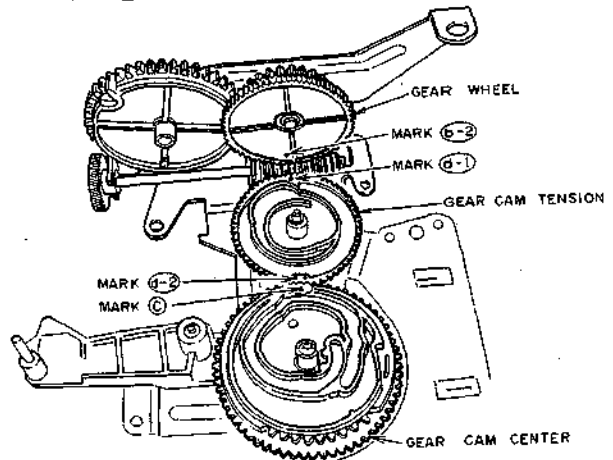


Fig. 4-10

7) Attach the ARM FWD BRAKE and Spring as shown in Fig. 4-11.

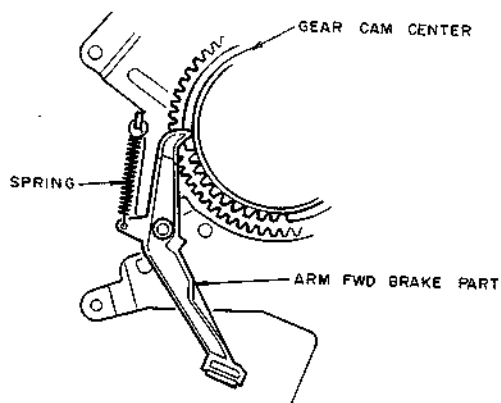


Fig. 4-11

10) Meet the marks of MODE SELECT SW and attach the MODE SELECT SW BLK onto the LOADING MECHA BLK as shown in Fig. 4-14. Tighten the MODE SELECT SW BLK with a screw ③.

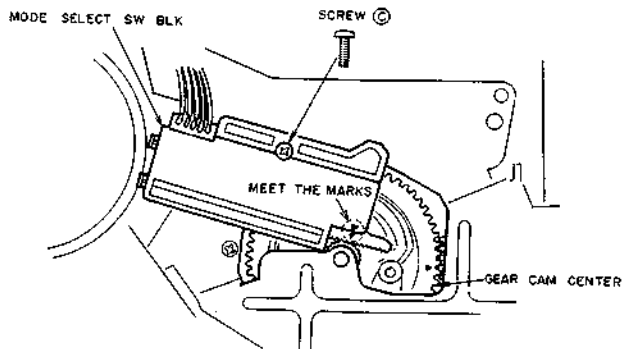


Fig. 4-14

8) Set the GEAR TOGGLE (TU) and (S) to the unloaded position with your fingers. At this time meet the marks of the GEAR TOGGLE (TU) and (S) as shown in Fig. 4-12.

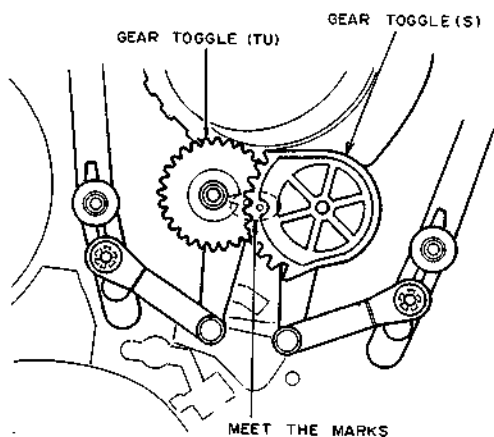


Fig. 4-12

11) Attach the BELT IDLER as shown in Fig. 4-15.

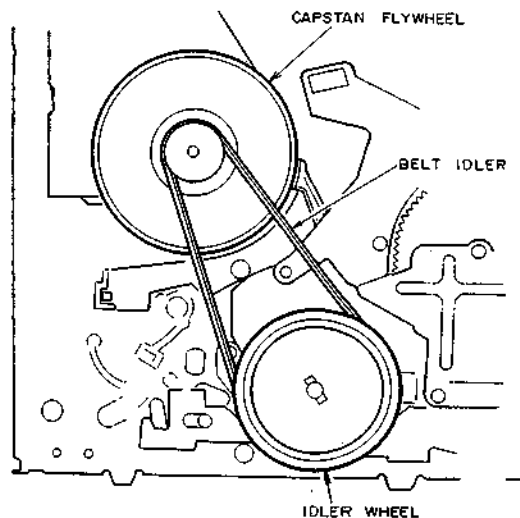


Fig. 4-15

9) Attach the LOADING MECHA. BLK with holding the GEAR TOGGLE (TU) in the direction of the arrow as shown in Fig. 4-13. Tighten the LOADING MECHA BLK with four screws ① and ②.

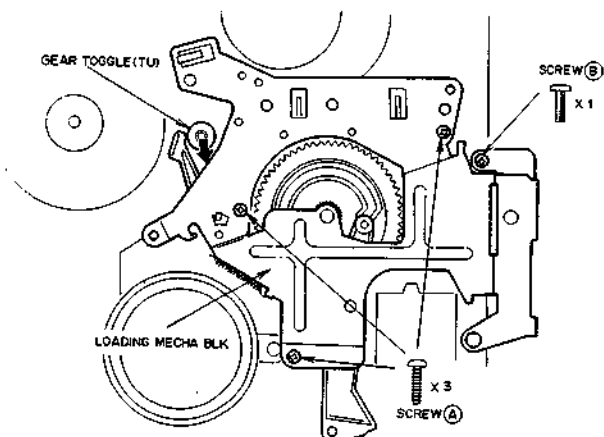


Fig. 4-13

12) Attach the LOADING DRIVE BLK and tighten with a screw ④.

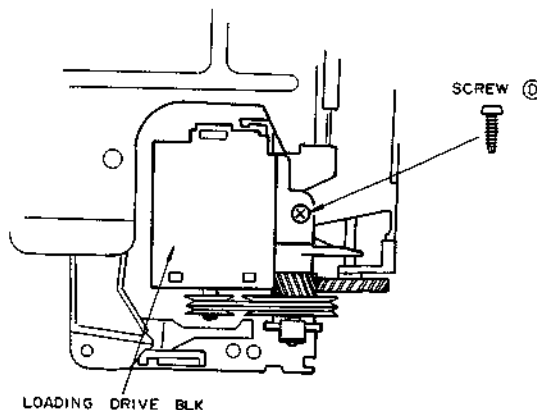


Fig. 4-16

4-3. UPPER DRUM (HEAD DRUM REPLACEMENT)

4-3-1. REMOVAL OF UPPER DRUM

- 1) Unsolder the eight relay leads and remove two Upper Drum fixing screws.
- 2) Gently lift and remove the Upper Drum.

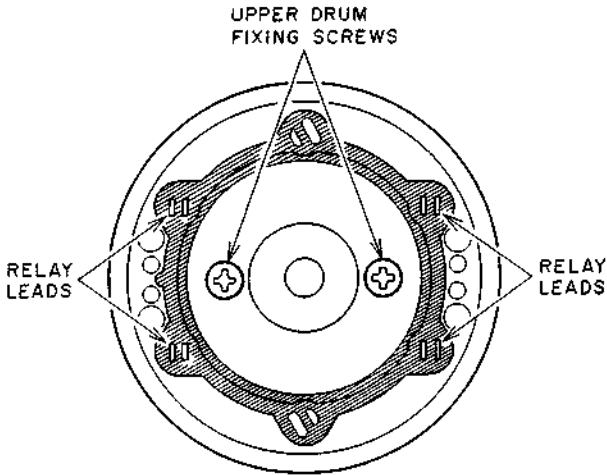


Fig. 4-17

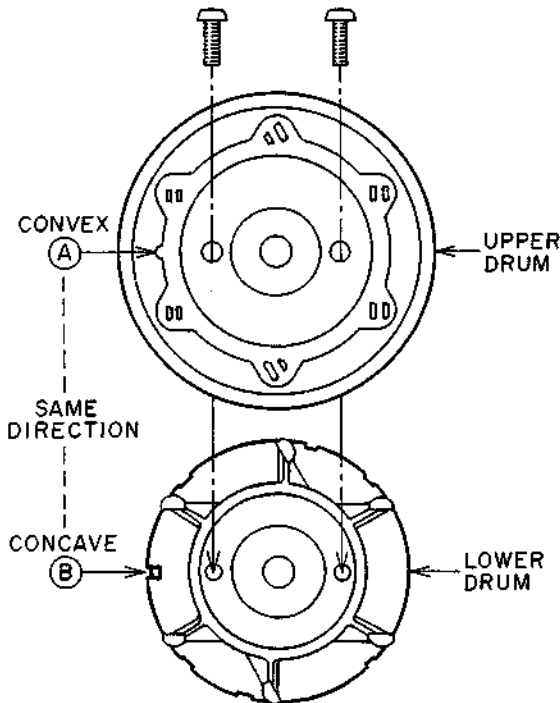


Fig. 4-18

4-3-2. INSTALLATION OF UPPER DRUM

- 1) Install the Upper Drum to the Lower Drum so that Upper Drum convex (A) and Lower Drum concave (B) become same direction.

NOTE: Height precisor is required for the proper performance, and the head tips are fragile, so 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, clean both surfaces where the upper drum and the rotary transformer part meet with alcohol.
- (c) When installation of the Upper Drum, if it does not go on to the shaft easily, 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. Tighten them at 6kg-cm torque.

4-3-3. AFTER REPLACEMENT

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

- 1) Control head phase adjustment. (Tape transport adj. 5-2-4)
- 2) PB switching point adjustment. (Electrical adj. Step 2)
- 3) Video Rec current adjustment. (Electrical adj. Step 9)

4-4. DRUM MOTOR REPLACEMENT

- 1) Disconnect the connector P502 from the Drum Motor P.C. Board.
- 2) Take out two screws (A) and remove the Rotary plate.

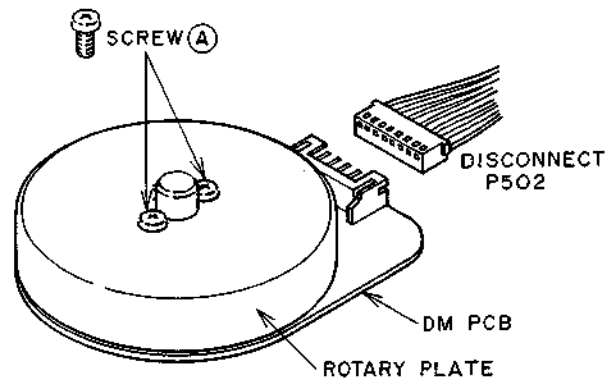


Fig. 4-19

3) Take out three screws (B) and replace the drum Motor.

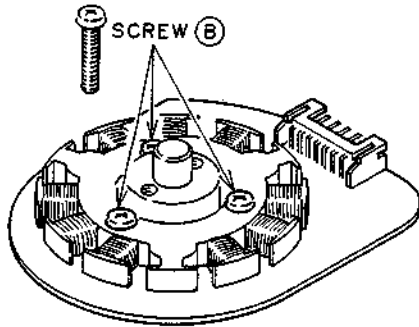


Fig. 4-20

4) Attach the Rotary plate to the Drum Motor so that the Rotary plate hall (a) and Collar preload hall (b) become a same direction.

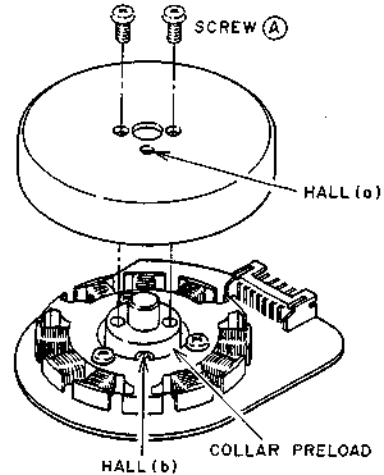


Fig. 4-21

V. MECHANICAL ADJUSTMENT

5-1. BACK TENSION ADJUSTMENT

- 1) Remove the Ejector Block. (Refer to 4-1-1. EJECTOR BLOCK REPLACEMENT.)
- 2) Depress the POWER button to turn ON the VCR. the VCR will get to the tape loaded mode without cassette tape.
- 3) In the Play mode, loosen the screw (A) and set the Tension Arm position to the correct position as shown in Fig. 5-1 by the Tension Band Holder position, then tighten the screw (A).

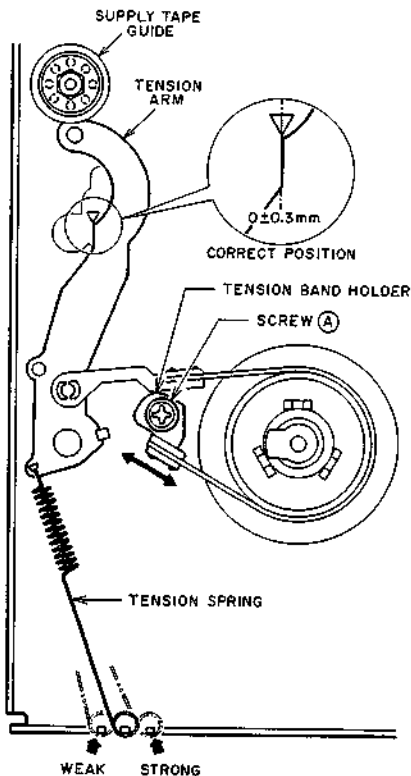


Fig. 5-1

- 4) Depress the Power button to Turn OFF.
- 5) Set the Reference Tape TF-542CBS (AT-751365) and put some weight on the Reference tape as a stabilizer.
- 6) Depress the POWER button and PLAY button.
- 7) Observe the TV screen and adjust V-HOLD for TV so that switching point appears on the TV screen as shown in Fig. 5-2.
- 8) Select the hook position of the Tension spring where the smallest skew should be obtained.

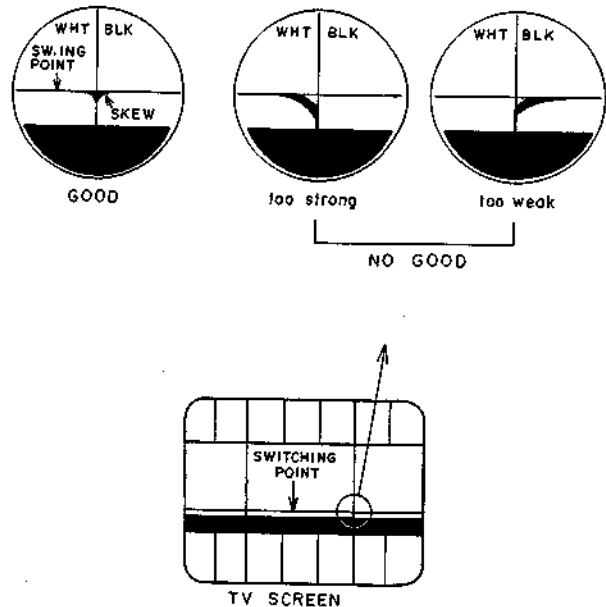


Fig. 5-2

5-2. TAPE TRANSPORT ADJUSTMENTS

5-2-1. TAPE CURL ADJUSTMENT AT THE TAKE-UP TAPE GUIDE

- 1) Playback the Reference tape TF-540RFS (AT-751363).
- 2) Turn the screw (a) on the A/C Head Blk until the edge of the tape barely touches the lower part of TAKE-UP TAPE GUIDE without any curl or wrinkle.

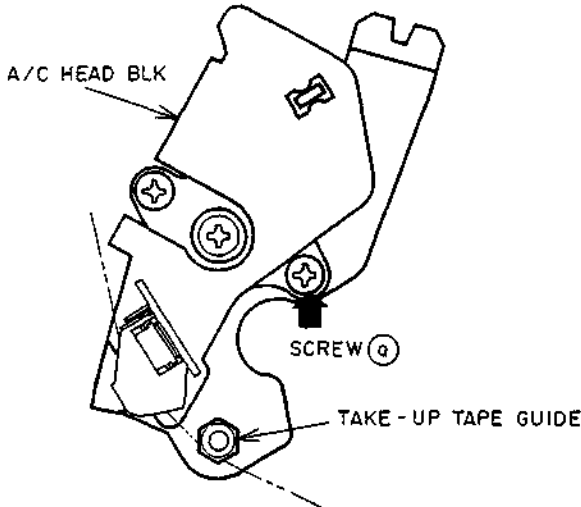


Fig. 5-3

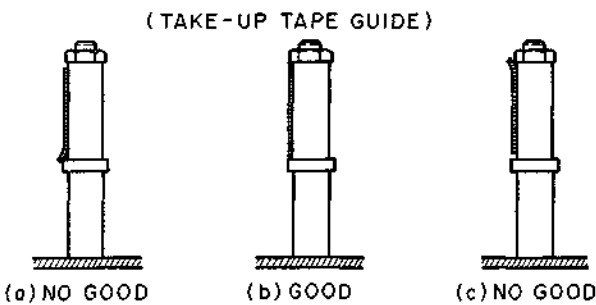


Fig. 5-4

5-2-2. CONFIRMATION OF TAPE CURL AT 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.



Fig. 5-5

5-2-3. AUDIO HEAD AZIMUTH ADJUSTMENT (SP)

- 1) Connect an AC volt meter or an oscilloscope to AUDIO OUT jack on the Rear panel.
- 2) Playback the Reference tape TF-540RFS (AT-751363).
- 3) Adjust the screw (b) to obtain the maximum audio output.

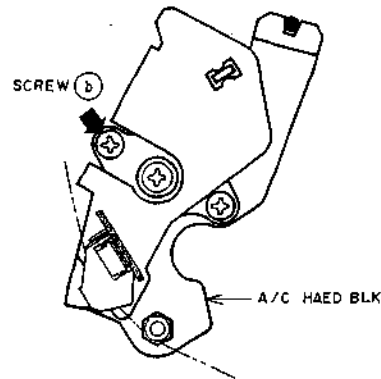


Fig. 5-6

5-2-4. CONTROL HEAD PHASE ADJUSTMENT

- 1) Connect an Oscilloscope to TP202 (ENVE) on the MAIN P.C. Board.
- 2) Playback the Reference tape TF-540RFS (AT-751363).
- 3) Depress the TRACKING button or on the Front panel until "T" mark can be seen in the center position as shown in Fig. 5-7.
- 4) Insert a sharpness screwdriver into A/C HEAD base and hall (a) as shown in Fig. 5-8.
- 5) Move the A/C HEAD base by moving a screwdriver in the directions of the arrow as shown in Fig. 5-8 to obtain the maximum RF envelope.

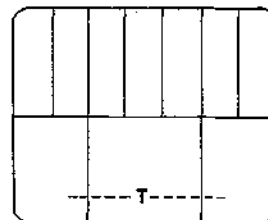


Fig. 5-7 On the TV screen

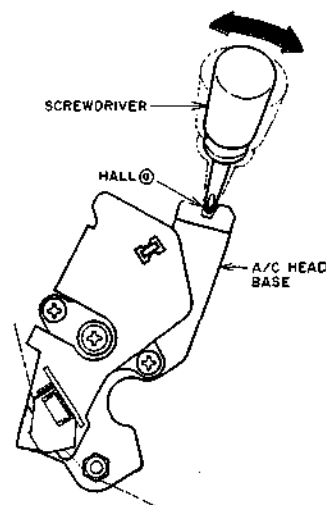


Fig. 5-8

5-2-5. ARM REVIEW HEIGHT ADJUSTMENT

- 1) Playback the beginning part of T-120 tape and set the unit in Review mode with depressing REW button.
- 2) Turn the ARM REVIEW height nut (ⓐ) so that the edge of the tape barely touches the lower part of TAKE-UP TAPE GUIDE without any curl or wrinkle between TAKE-UP TAPE GUIDE and CAPSTAN SHAFT.

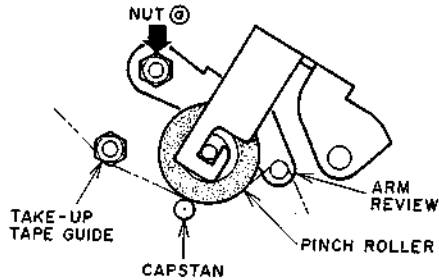


Fig. 5-9

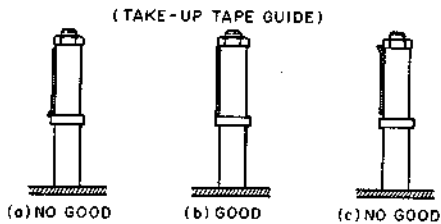


Fig. 5-10

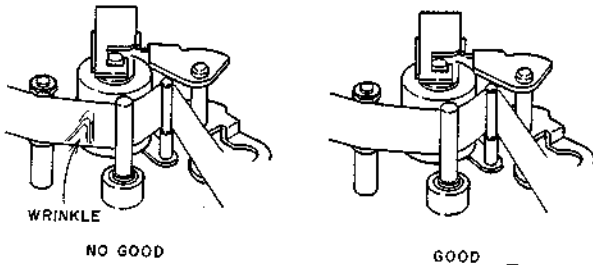


Fig. 5-11

5-2-6. LOADING LEADER HEIGHT ADJUSTMENTS

- 1) Slightly loosen the set screw at lower part of the LOADING LEADERS (L), (R) so that LOADING LEADERS can be adjusted with reasonable tightness. (Refer to Fig. 5-12.)
- 2) Playback the Reference tape TF-540RFS (AT-751363).
- 3) Connect an Oscilloscope to TP202 (ENVE) on the MAIN P.C. Board.
- 4) Turn the LOADING LEADER Heads with a screwdriver to obtain flat RF envelope as Ideal Envelope shown in Fig. 5-13.
- 5) After the adjustments, tighten the LOADING LEADER set screws.

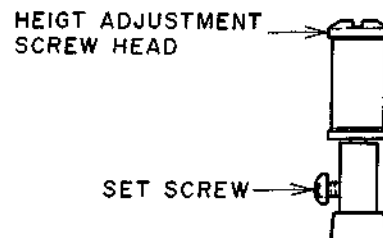


Fig. 5-12

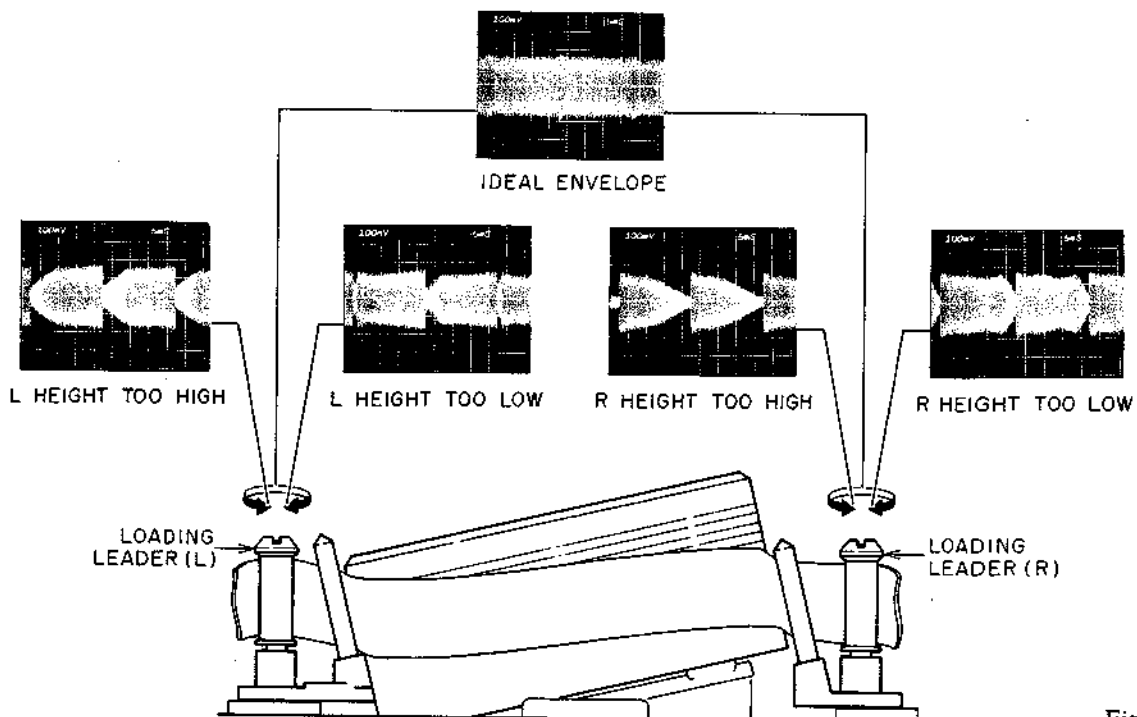


Fig. 5-13

5-2-7. A/C HEAD HEIGHT ADJUSTMENTS

- 1) Playback the Test tape TF-526HH (AT-751788).
- 2) Connect the Oscilloscope CH-1 to Audio output and CH2 to TP500.
- 3) Turn the hexagon screw to obtain 1/2 of the output level of either CH1 or CH2 whichever has output signal.

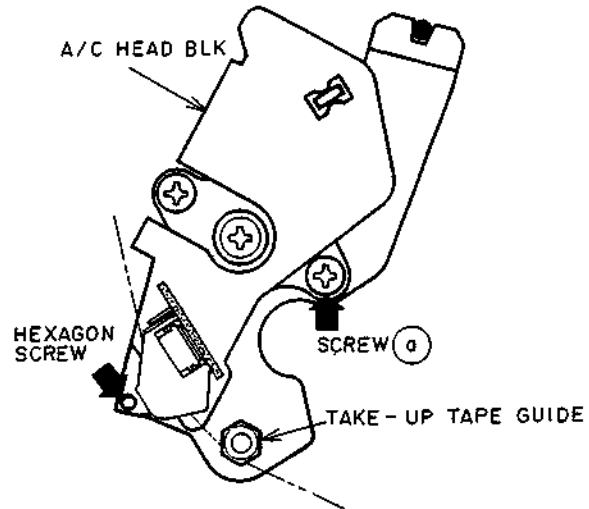


Fig. 5-14

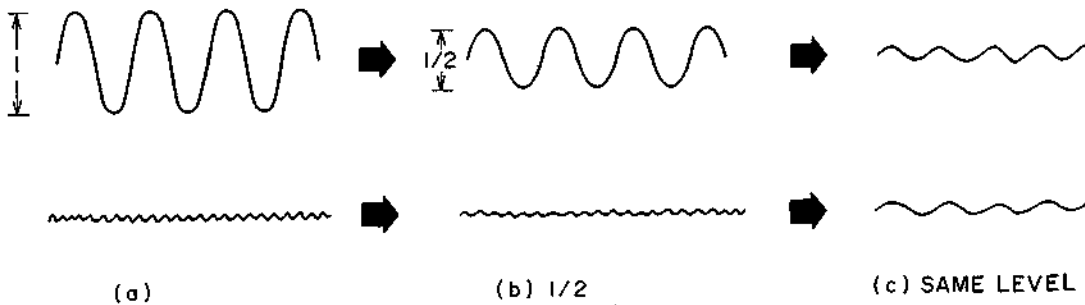


Fig. 5-15

- 4) Slightly turn the screw (a) until the tape edge barely touches the lower part of the Take-up Tape Guide without any curl as shown in Fig. 5-4.
- 5) Confirm that both signals of CH1 and CH2 are nearly same level. Repeat the adjustments 3), 4). If it is not nearly same level.

5-2-8. AUDIO HEAD AZIMUTH ADJUSTMENT (EP)

- 1) Connect an AC volt meter or an oscilloscope to AUDIO OUT jack on the Rear panel.
- 2) Playback the Reference tape TF-541RFL (AT-751364).
- 3) Adjust the screw (b) to obtain the maximum audio output.

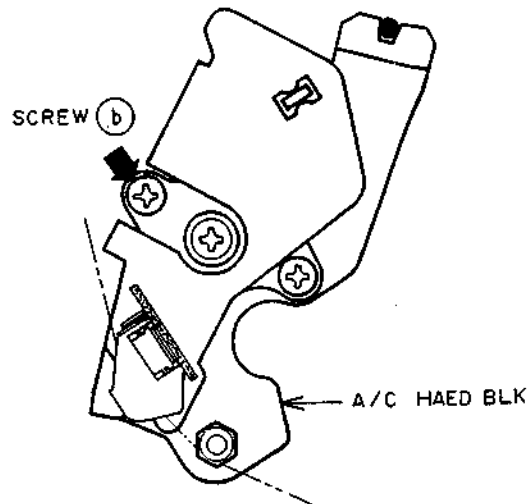
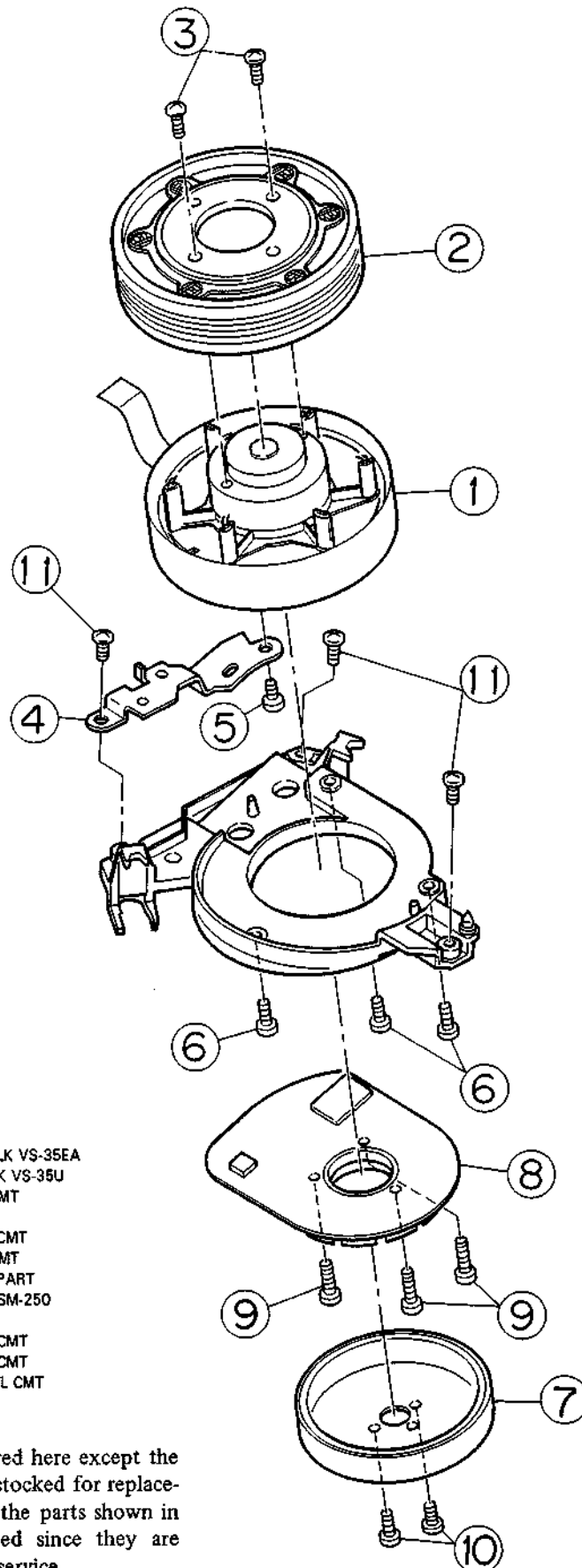


Fig. 5-16

Ref. No.	Part No.	Description
123	MB-373096	BELT LOADING
124	ML-373075	ARM LOADING BRAKE
125	ML-367614	ARM MAIN BRAKE(S)PART
126	ML-367616	ARM MAIN BRAKE(TU)PART
127	ML-367617	ARM REVIEW BRAKE PART
128	ML-373043	CLUTCH BLK
129	ML-500881	LEVER TENSION BAND PART
130	MZ-500717T	GEAR CAM CENTER (TW)
131	MZ-368797T	GEAR CAM JOINT (TW)
132	MZ-500707T	GEAR CAM TENSION (TW)
133	MZ-500715T	GEAR FL DRIVE (TW)
134	MZ-V1075A090A	GEAR TOGGLE (S) BLK VS-35EA
135	MZ-V1075A100A	GEAR TOGGLE (TU) BLK VS-35EA
136	MZ-500716T	GEAR WHEEL (TW)
137	MZ-367628	GEAR WORM PART
138	MZ-368794T	GEAR(S) (TW)
139	MZ-368795T	GEAR(T) (TW)
140	TR-373025	TR 2SD1944 J.K
141	VT-367622	GUIDE ROLLER PART

HEAD DRUM BLOCK

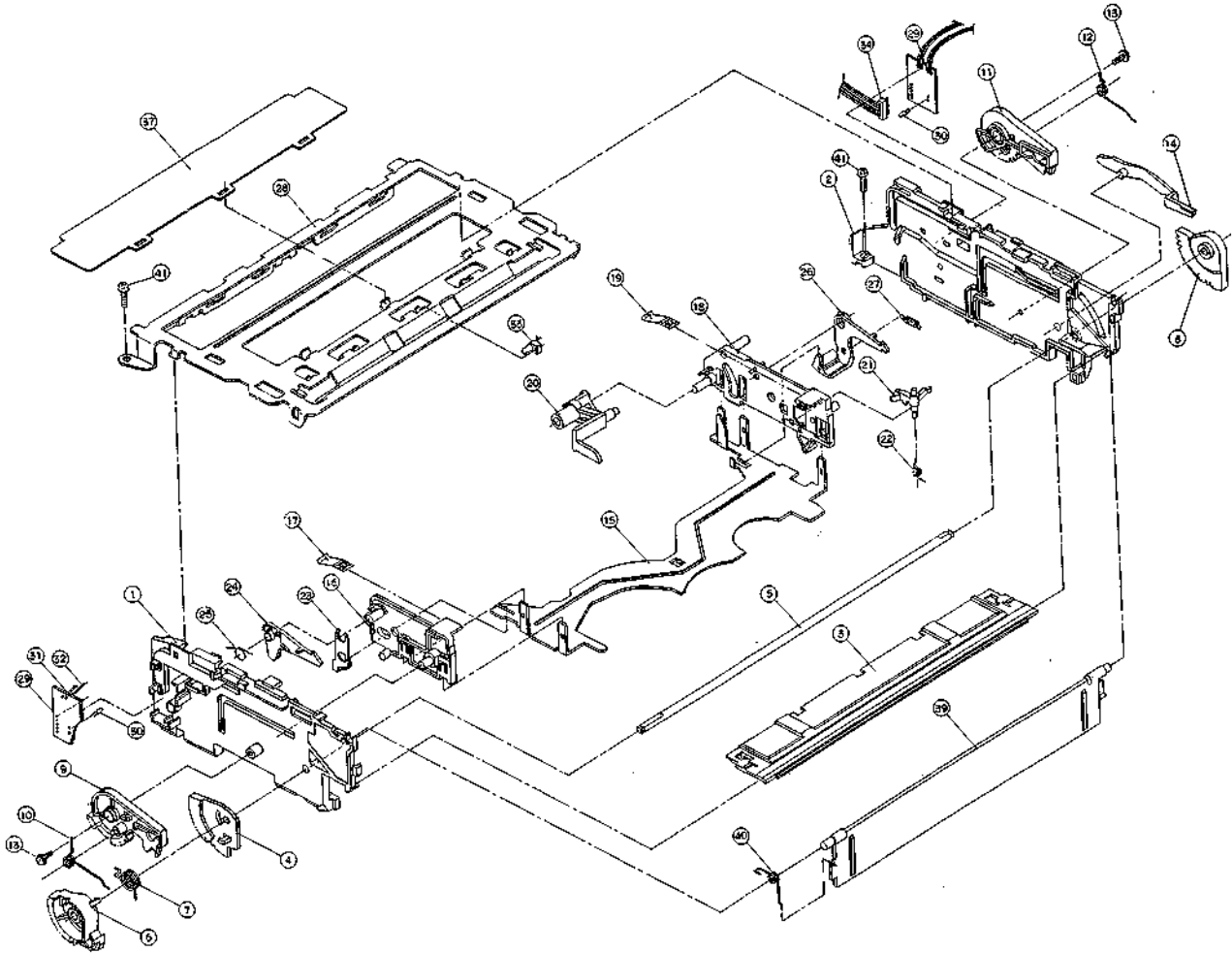


2. HEAD DRUM BLOCK

Ref. No.	Part No.	Description
1	BV-V1075A410A	LOWER DRUM BLK VS-35EA
2	BV-V1075A420A	UPPER DRUM BLK VS-35U
3	ZS-321298	BID30X08STL CMT
4	VT-373884	PLATE EARTH
5	ZS-479474	PAN26X05STL CMT
6	ZS-563444	BID26X08STL CMT
7	BV-B373848	YOKE MAGNET PART
8	BM-M3225A020A	PC MOTOR BLK SM-250 [DRUM MOTOR]
9	ZS-467796	PAN26X12STL CMT
10	ZS-479474	PAN26X05STL CMT
11	ZS-370047	DT BID30X12STL CMT

NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.

EJECTOR BLOCK



5. EJECTOR BLOCK

Ref. No.	Part No.	Description
1	MZ-368790T	HOUSING(S) (TW)
2	MZ-368791T	HOUSING(T) (TW)
3	SZ-375956T	GUID F (TW)
4	MZ-368794T	GEAR(S) (TW)
5	MS-368798T	SHAFT LOADING (TW)
6	MZ-368797T	GEAR CAM JOINT (TW)
7	ZG-375953T	SP TORSION JOINT (TW)
8	MZ-368795T	GEAR(T) (TW)
9	ML-368792T	ARM LOADING(S) (TW)
10	ZG-375954T	SP TORSION LOADING(S) (TW)
11	ML-368793T	ARM LOADING(T) (TW)
12	ZG-375955T	SP TORSION LOADING(T) (TW)
13	ZS-368524	PLX BID26X10STL CMT C072
14	ML-500730T	ARM LID OPENER (TW)
17	ZG-500736T	SP GUIDE CASSETTE (TW)
19	ZG-500735T	SP GUIDE CASSETTE (TW)
22	ZG-375959T	SP TORSION RELEASE (TW)
25	ZG-375957T	SP TORSION DAMPER (TW)
27	ZG-375958T	SP PULL DAMPER (TW)
28	MA-388799T	CHASSIS UPPER (TW)
30	ET-381490	TR PHOTO PN268 R.S
33	EL-373102T	PL CORD LCX (TW) [PL1]

Ref. No.	Part No.	Description
37A	SE-368476T	PLATE MIRROR U (TW) [U(A),U(C)]
37B	SE-374026	PLATE MIRROR [UM(U)]
39A	SE-500932T	MASK CASSETTE ENGLISH (TW) [VS-33U/UM]
39B	SE-500934T	MASK CASSETTE ENGLISH V (TW) [VS-35U]
40	ZG-500767	SP TORSION MASK
41	ZS-378341	PLX BID30X12STL CMT
42	BV-V1075A240A	TW HOLDER CASSETE BLK -35EA/TW [INCL. 15 TO 27]
43	BV-V1075A205A	TW EJECTOR (2) BLK VS-35EA/TW [INCL. 1 TO 34]

NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.

6. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1A	BA-V1077A600A	PC(#) MAIN(NTSC) BLK VS-33U [VS-33U/UM]
1B	BA-V1077A600B	PC(#) MAIN(NTSC) BLK VS-35U [VS-35U]

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

- MAIN P.C BOARD
- CHROMA P.C BOARD
- AUDIO & PRE-AMP P.C BOARD
- OPERATION P.C BOARD

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

- POWER SUPPLY P.C BOARD
- TR P.C BOARD
- DIODE P.C BOARD
- SW POWER P.C BOARD

7. MAIN P.C BOARD

Ref. No.	Part No.	Description
C500	EC-368823	C DBL LAYER ECSS5R5H 473Z5.5DC
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D200	ED-307572	D SILICON H 1SS131
D201	ED-624903	D SILICON H 1S2473
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
D204	ED-307572	D SILICON H 1SS131
D500	ED-307572	D SILICON H 1SS131
D501	ED-307572	D SILICON H 1SS131
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D504	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-307572	D SILICON H 1SS131
D510	ED-307572	D SILICON H 1SS131
D511	ED-307572	D SILICON H 1SS131
D512	ED-307572	D SILICON H 1SS131
D514	ED-307572	D SILICON H 1SS131
D516	ED-346541	D ZENER H HZ9L B2
D519	ED-307572	D SILICON H 1SS131
D521	ED-307572	D SILICON H 1SS131
D528	ED-624903	D SILICON H 1S2473
D529	ED-365699	D ZENER H HZS5.6J B1 F05
D530	ED-307572	D SILICON H 1SS131
FL1	EH-370811	FILTER CE SAF45MB70Z
FL2	EH-363276	FILTER CE TPS4.5MB2
FL3	EH-370812	FILTER CE SFE4.5MB
FL4	EH-373922	FILTER CE CDA4.5ME6A
FL200	EH-373145	FILTER LC LP LF-71N-02 5P
FL202	EH-368896	FILTER LC MYV-24L
FR500	*ER-378414	R OMF H S12 FS 1W R47J
IB500	EH-366605	COMP R RKC5BS103J
IB501	EH-374012	COMP R RKC6BS 103J

Ref. No.	Part No.	Description
IC1	EI-368809	IC M51496P
IC3	EI-337530	IC UPC574J
IC200	EI-373964	IC AN3230
IC201	EI-200573	IC TC4053BP
IC202	EI-373965	IC MSM6964
IC500	EI-360316	IC BA6305
IC501	EI-373980	IC BA15218N
IC502	EI-354095	IC BA718
IC503	EI-373978	IC BU2734 NTSC CUSTOM
IC504	EI-353421	IC BA8229
IC505	EI-373981	IC BA8993N
IC506	EI-368182	IC MB88525-186G LCXSYN1 CUSTOM
IC507	EI-373980	IC BA15218N
L1	EO-368178	COIL FIX 1 EL0606SKI R47M
L2	EO-376856	COIL FIX 1 LF-5.0S F05 1R0M
L3	EO-345865	COIL FIX 1 EL0606SKI 100J
L4	EO-368893	COIL VARI 1 134-5060-04
L5	EO-368894	COIL TUN 1 LLD 134-5056-04
L6	EO-345876	COIL FIX 1 EL0606SKI 470J
L8	EO-345872	COIL FIX 1 EL0606SKI 220J
L9	EO-368895	COIL TUN 2 AFT 111-5042-14
L10	EO-376614	COIL FIX 1 LF-5.0S F05 220K
L11	EO-345865	COIL FIX 1 EL0606SKI 100J
L200	EO-376607	COIL FIX 1 LF-5.0S F05 181K
L201	EO-376602	COIL FIX 1 LF-5.0S F05 121K
L202	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L203	EO-376609	COIL FIX 1 LF-5.0S F05 270K
L204	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L205	EO-345866	COIL FIX 1 EL0606SKI 120J
L206	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L207	EO-345885	COIL FIX 1 EL0606SKI 181J
L208	EO-376612	COIL FIX 1 LF-5.0S F05 680K
L209	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L210	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L211	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L212	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L213	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L500	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
P200	EJ-373971	PIN J JPJ0881-010 BLACK 2P [AUDIO]
P201	EJ-373970	PIN J JPJ0811-040 YELLOW 2P [VIDEO]
TR1	ET-375777	TR 2SC2926S P,Q
TR2	ET-360067	TR 2SC3330 T,U F05
TR3	ET-360067	TR 2SC3330 T,U F05
TR4	ET-360067	TR 2SC3330 T,U F05
TR5	ET-375777	TR 2SC2926S P,Q
TR6	ET-360067	TR 2SC3330 T,U F05
TR7	ET-360067	TR 2SC3330 T,U F05
TR8	ET-354414	TR DTC144ES
TR9	ET-353899	TR 2SA1317 S,T,U
TR10	ET-321644	TR 2SC1213 C
TR11	ET-353899	TR 2SA1317 S,T,U
TR13	ET-356224	TR 2SA1286 G,H,J F05
TR16	ET-353899	TR 2SA1317 S,T,U
TR17	ET-353899	TR 2SA1317 S,T,U
TR18	ET-353899	TR 2SA1317 S,T,U
TR19	ET-356224	TR 2SA1286 G,H,J F05
TR200	ET-353899	TR 2SA1317 S,T,U
TR201	ET-360067	TR 2SC3330 T,U F05
TR202	ET-354414	TR DTC144ES
TR205	ET-363953	TR DTA114TS
TR206	ET-360067	TR 2SC3330 T,U F05
TR207	ET-353897	TR DTC114ES
TR208	ET-360067	TR 2SC3330 T,U F05
TR209	ET-354414	TR DTC144ES
TR210	ET-356224	TR 2SA1286 G,H,J F05
TR211	ET-360067	TR 2SC3330 T,U F05
TR212	ET-353899	TR 2SA1317 S,T,U
TR213	ET-360067	TR 2SC3330 T,U F05
TR214	ET-354414	TR DTC144ES
TR215	ET-353899	TR 2SA1317 S,T,U
TR500	ET-354415	TR DTA144ES
TR501	ET-360067	TR 2SC3330 T,U F05
TR502	ET-373985	TR DTA144TS
TR503	ET-354414	TR DTC144ES
TR504	ET-354414	TR DTC144ES
TR505	ET-354414	TR DTC144ES

Ref. No.	Part No.	Description
TR507	ET-373985	TR DTA144TS
TR508	ET-354371	TR DTC124ES
TR511	ET-356224	TR 2SA1286 G,H,J F05
TR512	ET-373985	TR DTA144TS
TR513	ET-360067	TR 2SC3330 T,U F05
TR514	ET-373985	TR DTA144TS
TR515	ET-353899	TR 2SA1317 S,T,U
TR516	ET-353899	TR 2SA1317 S,T,U
TR517	ET-354365	TR DTC114YS
TR518	ET-354371	TR DTC124ES
TR520	ET-354414	TR DTC144ES
TR521	ET-353899	TR 2SA1317 S,T,U
TR522	ET-375983	TR DTA124TS
VR1	EV-368135	R S-FIX H KVSF637A 0.01W 474
VR2	EV-356324	R S-FIX H KVSF637A 0.10W 103
VR3	EV-356324	R S-FIX H KVSF637A 0.10W 103
VR200	EV-358829	R S-FIX H RH0615C 0.10W 223
VR201	EV-358829	R S-FIX H RH0615C 0.10W 223
VR202	EV-356324	R S-FIX H KVSF637A 0.10W 103
VR203	EV-356324	R S-FIX H KVSF637A 0.10W 103
VR204	EV-358829	R S-FIX H RH0615C 0.10W 223
VR205	EV-358829	R S-FIX H RH0615C 0.10W 223
VR206	EV-356579	R S-FIX H RH0615C 0.10W 102
VR207	EV-356583	R S-FIX H RH0615C 0.10W 332
VR208	EV-356583	R S-FIX H RH0615C 0.10W 332
VR209	EV-374014	R S-FIX EVTK-8C 0.20W 104
VR210	EV-374014	R S-FIX EVTK-8C 0.20W 104
VR501	EV-378325	R S-FIX H KVSF687A 0.30W 473
X500	EI-347991	OSC CE CSA6.00MS 8MHZ
1	EE-373926	TV TUNER TEMH1-023A US
2	BV-373934	RF CONVERTER YAA21-0279 US
3	SP-500680T	PANEL REAR JACK U (TW)
4	ZS-362378	PLX BID30X10STL CMT

8. CHROMA P.C BOARD

Ref. No.	Part No.	Description
D400	ED-307572	D SILICON H 1SS131
D401	ED-307572	D SILICON H 1SS131
DL400	EH-370413	DL ADL-FN2135Q-B03
FL400	EH-370615	FILTER LC FF-71N
IC400	EI-373023	IC TA8632N
IC401	EI-367904	IC M50455-057SP CUSTOM
L401	EO-376610	COIL FIX 1 LF-5.0S F05 330K
L402	EO-376599	COIL FIX 1 LF-5.0S F05 100K
L403	EO-376606	COIL FIX 1 LF-5.0S F05 180K
L404	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L405	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L406	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L408	EO-345887	COIL FIX 1 EL0606SKI 221J
L409	EO-345889	COIL FIX 1 EL0606SKI 331J
L410	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L411	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L412	EO-376610	COIL FIX 1 LF-5.0S F05 330K
TR400	ET-360067	TR 2SC3330 T,U F05
TR401	ET-360067	TR 2SC3330 T,U F05
TR402	ET-353899	TR 2SA1317 S,T,U
TR403	ET-360067	TR 2SC3330 T,U F05
TR404	ET-368084	TR 2SC3315 D
TR405	ET-360067	TR 2SC3330 T,U F05
TR406	ET-360067	TR 2SC3330 T,U F05
TR407	ET-360067	TR 2SC3330 T,U F05
TR409	ET-353899	TR 2SA1317 S,T,U
TR410	ET-360067	TR 2SC3330 T,U F05
VR400	EV-368340	R S-FIX H KVSF687A 0.30W 104
X400	EI-316384	OSC X'TAL NR-18 3.579545MHZ

9. AUDIO & PRE-AMP P.C BOARD

Ref. No.	Part No.	Description
D700	ED-307572	D SILICON H 1SS131
D701	ED-307572	D SILICON H 1SS131
D800	ED-307572	D SILICON H 1SS131
FL700	EO-375471	COIL OSC 1 S033344
IC700	EI-373946	IC LA7292
IC800	EI-367909	IC HA118019NT
L700	EO-370639	COIL FIX 1 L-8 272J
L701	EO-370639	COIL FIX 1 L-8 123J
L800	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L801	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L802	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L803	EO-376600	COIL FIX 1 LF-5.0S F05 101K
L804	EO-376611	COIL FIX 1 LF-5.0S F05 470K
L805	EO-376599	COIL FIX 1 LF-5.0S F05 100K
L806	EO-376661	COIL FIX 1 LF-5.0S F05 390K
L807	EO-345889	COIL FIX 1 EL0606SKI 331J
TR700	ET-360067	TR 2SC3330 T,U F05
TR800	ET-354414	TR DTC144ES
TR801	ET-353899	TR 2SA1317 S,T,U
TR802	ET-360067	TR 2SC3330 T,U F05
TR804	ET-360067	TR 2SC3330 T,U F05
TR805	ET-353899	TR 2SA1317 S,T,U
VR700	EV-356577	R S-FIX H RH0615C 0.10W 103
VR701	EV-356582	R S-FIX H RH0615C 0.10W 473

10. OPERATION P.C BOARD

Ref. No.	Part No.	Description
D900	ED-307572	D SILICON H 1SS131
D901	ED-307572	D SILICON H 1SS131
D902	ED-307572	D SILICON H 1SS131
D903	ED-307572	D SILICON H 1SS131
D904	ED-307572	D SILICON H 1SS131
D905	ED-307572	D SILICON H 1SS131
D906	ED-307572	D SILICON H 1SS131
D907	ED-307572	D SILICON H 1SS131
D908	ED-307572	D SILICON H 1SS131
		[VS-33U/UM]
D911	ED-307572	D SILICON H 1SS131
D912	ED-307572	D SILICON H 1SS131
D913	ED-307572	D SILICON H 1SS131
D914	ED-307572	D SILICON H 1SS131
D915	ED-307572	D SILICON H 1SS131
D916	ED-346543	D ZENER H HZ9L C1
D917	ED-356424	D LED BG5525S GREEN
D918	ED-356424	D LED BG5525S GREEN
D919	ED-351419	D ZENER H HZ7L B3
D920	ED-360409	D PHOTO PMS23B
D921	ED-307572	D SILICON H 1SS131
FL900	EM-373956	IND FL FLV132
IB900	EH-368109	COMP R RKC3BS 473J
IB901	EH-374010	COMP R RKC5BS 473J
IC901	EI-373952	IC UPD75208CW-121 LCX0PU2 CUSTOM
IC902	EI-373955	IC S8053ALR
IC903	EI-373954	IC CXX1006L
IC904	EI-367271	IC UPC1490HA
L900	EO-376600	COL FIX 1 LF-5.0S F05 101K
L901	EO-376616	COL FIX 1 LF-5.0S F05 221K
L902	EO-376600	COL FIX 1 LF-5.0S F05 101K
SW900	ES-349474	SW TACT SKHHAM004A
SW901	ES-349474	SW TACT SKHHAM004A
SW902	ES-349474	SW TACT SKHHAM004A
SW903	ES-349474	SW TACT SKHHAM004A
SW904	ES-349474	SW TACT SKHHAM004A
SW905	ES-349474	SW TACT SKHHAM004A
SW906	ES-349474	SW TACT SKHHAM004A
SW907	ES-349474	SW TACT SKHHAM004A
SW908	ES-349474	SW TACT SKHHAM004A
SW909	ES-349474	SW TACT SKHHAM004A
SW910	ES-349474	SW TACT SKHHAM004A
SW911	ES-349474	SW TACT SKHHAM004A
SW912	ES-349474	SW TACT SKHHAM004A
SW913	ES-349474	SW TACT SKHHAM004A
SW914	ES-349474	SW TACT SKHHAM004A
SW915	ES-349474	SW TACT SKHHAM004A
SW916	ES-349474	SW TACT SKHHAM004A
SW917	ES-375736	SW SLIDE ESD1112251 2-02-02N [SPEED]
SW918	ES-375736	SW SLIDE ESD1112251 2-02-02N [INPUT SELECTOR]
SW919	ES-375736	SW SLIDE ESD1112251 2-02-02N [EDIT]
TR900	ET-354414	TR DTC144ES
TR901	ET-354414	TR DTC144ES
TR902	ET-354414	TR DTC144ES
TR903	ET-354414	TR DTC144ES
TR904	ET-368836	TR DTA143TA
TR906	ET-354414	TR DTC144ES
TR907	ET-354364	TR DTC143TS
TR908	ET-354364	TR DTC143TS
TR909	ET-354364	TR DTC143TS
VR900	EV-373958	VR ROTARY RK09K1130 B203 [PICTURE]
X900	EI-373957	OSC CE CST4.19MG 4.194 MHZ
X901	EI-368825	OSC X'TAL MX-38T 32.768KHZ

11. PRE-SET P.C BOARD

Ref. No.	Part No.	Description
D950	ED-368826	D LED BG3402S GREEN
D951	ED-307572	D SILICON H 1SS131
D952	ED-307572	D SILICON H 1SS131
D953	ED-307572	D SILICON H 1SS131
D954	ED-307572	D SILICON H 1SS131
D955	ED-307572	D SILICON H 1SS131
SW951	ES-349474	SW TACT SKHHAM004A
SW952	ES-349474	SW TACT SKHHAM004A
SW953	ES-349474	SW TACT SKHHAM004A
SW954	ES-349474	SW TACT SKHHAM004A
SW955	ES-349474	SW TACT SKHHAM004A
SW956	ES-349474	SW TACT SKHHAM004A
SW957	ES-375737	SW SLIDE ESD1111351 2-01-03N [PRE-SET]

12. POWER SUPPLY P.C BOARD

Ref. No.	Part No.	Description
C1	*EC-361942	C CE V DNS1032V V 103Z 400AC
D3	*ED-367202	D SILICON S5566B F12 [UM[U]]
D4	*ED-367202	D SILICON S5566B F12 [UM[U]]
D5	ED-307572	D SILICON H 1SS131
D7	*ED-367693	D SILICON S5566G(LC-7)F12
D8	*ED-367693	D SILICON S5566G(LC-7)F12
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D11	ED-376598	D ZENER H HZS36J B3 F05
D12	ED-346525	D ZENER H HZ6L A3
D13	*ED-379041	D SILICON S5566B 100/1.0A
FR1	*ER-318400	R CB H S10 FS RDS 1/4W 680J
IC1	*EI-367571	IC LA6358T
R1	*ER-356573	R SD ANTI-STATIC 1/2W 225K [U[A],U[C]]
TR1	*ET-353899	TR 2SA1317 S.T.U
TR2	*ET-355669	TR 2SC3246 G.H.J F05
TR3	TR-373025	TR 2SD1944 J.K
TR4	TR-373025	TR 2SD1944 J.K
TR5	*ET-360067	TR 2SC3330 T.U F05
TR6	*ET-360067	TR 2SC3330 T.U F05
TR7	*ET-360067	TR 2SC3330 T.U F05
TR9	*ET-376818	TR 2SC3247 H.J.K
TR10	*ET-366677	TR 2SD1761 E.F
TR11	*ET-364093	TR 2SA1283 E.F F05
T1A	*BT-373993	TRANS POW V1077U [U[A],U[C]]
T1B	*BT-373994	TRANS POW V1077UM [UM[U]]
VR1	EV-376139	R S-FIX H KVSF687A 0.30W 472
F1A	*EF-309391	FUSE TSC 125V 800MA [U[A],U[C]]
F1B	*EF-258344	FUSE SENKO T 250V 800MA [UM[U]]
F2A	*EF-306956	FUSE TSC 125V 2.50A [U[A],U[C]]
F2B	*EF-601301	FUSE SENKO T 250V 2.00A [UM[U]]

13. TR P.C BOARD

Ref. No.	Part No.	Description
TR8	*ET-366677	TR 2SD1781 E.F

14. DIODE P.C BOARD

Ref. No.	Part No.	Description
D1	*ED-378298	D SILICON BA20B

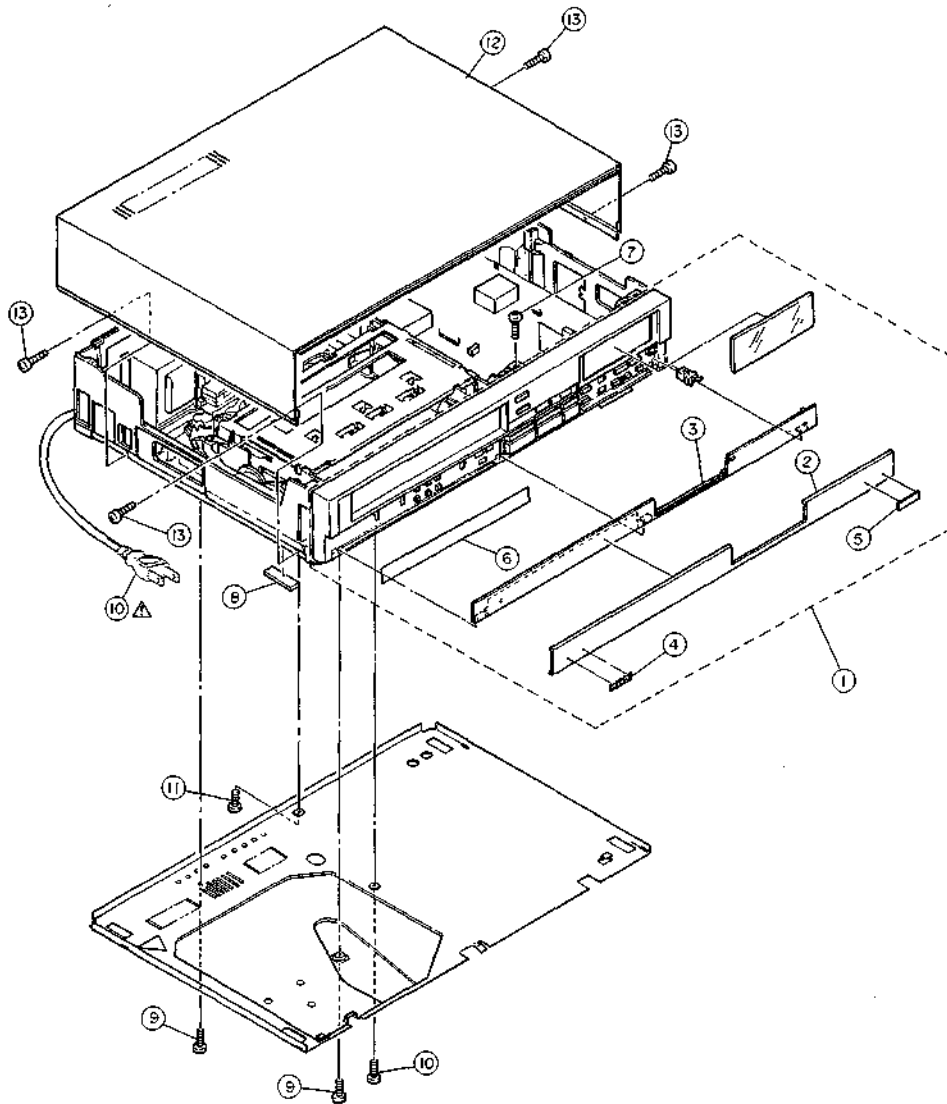
16. SUB P.C BOARD

Ref. No.	Part No.	Description
D524	ED-307572	D SILICON H 1SS131
D525	ED-307572	D SILICON H 1SS131
D526	ED-307572	D SILICON H 1SS131
D527	ED-307572	D SILICON H 1SS131
IC509	EI-337625	IC BA236
TR524	ET-370310	TR DTC144TS
TR525	ET-375986	TR DTC124TS
TR526	ET-373985	TR DTA144TS
TR527	ET-354415	TR DTA144ES

15. SW POWER P.C BOARD (VS-33UM ONLY)

Ref. No.	Part No.	Description
C25	EC-378327	C EC V SM 2R2M 450DC [UM(U)]
D15	ED-371512	D SILICON ERA22-04Y F05 [UM(U)]
D16	ED-371512	D SILICON ERA22-04Y F05 [UM(U)]
D20	ED-371512	D SILICON ERA22-04Y F05 [UM(U)]
D21	ED-376838	D SILICON DSA12G UB1 600/1.2A [UM(U)]
IC2	*EI-376794	IC BA6993 [UM(U)]
IC3	EI-368152	IC BA707 [UM(U)]
RL1	*EQ-376837	RELAY POW VB-100TBU-5 2TR 100V [UM(U)]
R26	*ER-378385	R CB H S12 FS RDS 1/2W 474J [UM(U)]
TR13	ET-376663	TR 2SC3868 [UM(U)]
TR14	ET-376663	TR 2SC3868 [UM(U)]

FINAL ASSEMBLY BLOCK



17. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1A	BD-V1077B300A	PANEL FRONT BLK VS-35U-B [INCL. 2 TO 6]
1B	BD-V1077B300B	PANEL FRONT BLK VS-33U-B [INCL. 2 TO 6]
1C	BD-V1077B300C	PANEL FRONT BLK VS-33UM-B [INCL. 2 TO 6]
2	SP-500867T	DOOR FRONT(1) ENGLISH B (TW)
3	SP-500870T	DOOR FRONT(2) B (TW)
4	SM-500675T	NAME PLATE AKA(3) (TW)
5	SM-500676T	NAME PLATE DX4 (TW)
6	ZZ-368635	LABEL PRESET ENGLISH
7	ZS-362378	PLX BID30X10STL CMT
8	SA-353927B	FOOT(2)
9	ZS-364545	DT BID30X08STL CMT
10	ZS-362378	PLX BID30X10STL CMT
11	ZS-368547	PLX BID30X06STL CMT
12	SP-500772	COVER UPPER B
13	ZS-374023	DT BID26X08STL 8M
14A	*EW-371934	AC CORD 20 KP8WSPT2H B100 A UC [U[A],U[C]]
14B	*EW-364369	AC CORD 2CORES VM-0129 HVFF-CB [UM[U]]

18. ACCESSORY

Ref. No.	Part No.	Description
1	EW-356449	CORD UL 1.5M
2A	AX-N4001B010A	LCX REMOCON BLK RC-V33A-EB [VS-33U/UM]
2B	AX-N4001B010B	LCX REMOCON BLK RC-V35A-EB [VS-35U]

19. REMOTE CONTROL UNIT RC-V33A/V35A

Ref. No.	Part No.	Description
D1	ED-376111	D LED SE303AC INFRARED
D2	ED-344280	D SILICON H GMA-01-FY2 F06
D3	ED-344280	D SILICON H GMA-01-FY2 F05
D4	ED-344280	D SILICON H GMA-01-FY2 F05
IC1	EI-376112	IC UPD6122G
TR1	ET-302502	TR 2SC2001 K
X1	EI-376113	OSC CE CSB455EB
1	SC-375525A	COVER BATTERY(B)

PARTS LIST

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AX-N4001B010B	2B	ED-307572	D906	EH-366605	IB500	EI-376794	IC2
BA-V1077A600A	1A	ED-307572	D907	EH-368109	41	EJ-373970	P201
BA-V1077A600B	1B	ED-307572	D908	EH-368109	IB900	EJ-373971	P200
BD-V1077B300A	1A	ED-307572	D911	EH-368896	52	EL-373102T	33
BD-V1077B300B	1B	ED-307572	D912	EH-368896	FL202	EM-373956	82
BD-V1077B300C	1C	ED-307572	D913	EH-370413	45	EM-373956	FL900
BL-V1075A130A	1	ED-307572	D914	EH-370413	DL400	EO-345865	L3
BL-V1075A130A	34	ED-307572	D915	EH-370615	50	EO-345865	L11
BL-367620-A	29	ED-307572	D921	EH-370615	FL400	EO-345866	L205
BL-367627	21	ED-307572	D951	EH-370811	47	EO-345872	L8
BL-368475	37	ED-307572	D952	EH-370811	FL1	EO-345876	L6
BL-500879T	36	ED-307572	D953	EH-370812	48	EO-345885	L207
BM-M3225A020A	4	ED-307572	D954	EH-370812	FL3	EO-345887	L408
BM-M3225A020A	8	ED-307572	D955	EH-373145	51	EO-345889	L409
BM-367631	3	ED-307572	D956	EH-373145	FL200	EO-345889	L807
BM-367631	29	ED-307572	D957	EH-373922	46	EO-345889	L1
BM-373098	2	ED-307572	D10	EH-373922	FL4	EO-368893	L4
BM-373098	8	ED-307572	D524	EH-374010	42	EO-368894	L5
BR-367618	5	ED-307572	D525	EH-374010	IB901	EO-368895	L9
BR-367618	9	ED-307572	D526	EH-374012	44	EO-370638	L701
BR-367619	6	ED-307572	D527	EH-374012	IB501	EO-370639	L700
BR-367619	10	ED-344280	24	EI-200573	72	EO-375471	83
BT-373993	7	ED-344280	D2	EI-200573	IC201	EO-375471	FL700
BT-373993	T1A	ED-344280	D3	EI-318384	81	EO-376179	L202
BT-373994	8	ED-344280	D4	EI-318384	X400	EO-376179	L204
BT-373994	T1B	ED-346525	32	EI-337530	74	EO-376179	L206
BV-B373848	7	ED-346525	D12	EI-337530	IC3	EO-376179	L209
BV-V1075A070A	11	ED-346541	34	EI-337625	55	EO-376179	L210
BV-V1075A070A	41	ED-346541	D516	EI-337625	IC509	EO-376179	L211
BV-V1075A080A	12	ED-346543	35	EI-347991	77	EO-376179	L212
BV-V1075A080A	42	ED-346543	D916	EI-347991	X500	EO-376179	L213
BV-V1075A205A	13	ED-351419	33	EI-353421	56	EO-376179	L500
BV-V1075A205A	43	ED-351419	D919	EI-353421	IC504	EO-376179	L404
BV-V1075A240A	42	ED-356424	17	EI-354095	60	EO-376179	L405
BV-V1075A410A	9	ED-356424	D917	EI-354095	IC502	EO-376179	L411
BV-V1075A410A	1	ED-356424	D918	EI-360316	57	EO-376179	L800
BV-V1075A420A	14	ED-360409	20	EI-360316	IC500	EO-376179	L801
BV-V1075A420A	2	ED-360409	D920	EI-367271	73	EO-376179	L802
BV-373934	10	ED-365699	31	EI-367271	IC904	EO-376599	L402
BV-373934	2	ED-365699	D529	EI-367571	64	EO-376599	L805
EC-361942	C1	ED-367202	27	EI-367571	IC1	EO-376600	L406
EC-368823	15	ED-367202	D3	EI-367904	68	EO-376600	L410
EC-368823	C500	ED-367202	D4	EI-367904	IC401	EO-376600	L803
EC-378327	C25	ED-367693	29	EI-367909	63	EO-376600	L900
ED-307572	25	ED-367693	D7	EI-367909	IC800	EO-376600	L902
ED-307572	D1	ED-367693	D8	EI-368152	IC3	EO-376602	L201
ED-307572	D2	ED-368826	16	EI-368182	66	EO-376606	L403
ED-307572	D3	ED-368826	D950	EI-368182	IC506	EO-376607	L200
ED-307572	D4	ED-371512	23	EI-368809	69	EO-376609	L203
ED-307572	D200	ED-371512	D15	EI-368809	IC1	EO-376610	L401
ED-307572	D202	ED-371512	D16	EI-368825	80	EO-376610	L412
ED-307572	D203	ED-371512	D20	EI-368825	X901	EO-376611	L804
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ED-307572	D500	ED-373101	11	EI-373023	IC400	EO-376614	L10
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ED-307572	D504	ED-376598	D11	EI-373952	IC901	EQ-378837	84
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ED-307572	D401	EF-258344	F1B	EI-373980	54	ES-349474	SW903
ED-307572	D700	EF-306956	39	EI-373980	IC501	ES-349474	SW904
ED-307572	D701	EF-306956	F2A	EI-373980	IC507	ES-349474	SW905
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ED-307572	D900	EF-309391	F1A	EI-373981	IC505	ES-349474	SW907
ED-307572	D901	EF-601301	37	EI-376112	75	ES-349474	SW908
ED-307572	D902	EF-601301	F2B	EI-376112	IC1	ES-349474	SW909
ED-307572	D903	EH-363276	49	EI-376113	78	ES-349474	SW910
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ES-349474	SW913	ET-360067	TR4	EW-364389	14B	ZG-373535	8
ES-349474	SW914	ET-360067	TR6	EW-371934	14A	ZG-373536	4
ES-349474	SW915	ET-360067	TR7	HC-374197	120	ZG-373539	30
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ES-349474	SW916	ET-360067	TR201	HE-361456	121	ZG-373542	15
ES-349474	SW951	ET-360067	TR206	HE-361456	20	ZG-373546	22
ES-349474	SW952	ET-360067	TR208	MA-368799T	28	ZG-373548	4
ES-349474	SW953	ET-360067	TR211	MB-373080	122	ZG-373894	2
ES-349474	SW954	ET-360067	TR213	MB-373080	38	ZG-373900	15
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ES-349474	SW956	ET-360067	TR513	MB-373096	123	ZG-374022	22
ES-373099	88	ET-360067	TR400	MB-373096	33	ZG-375953T	7
ES-373099	27	ET-360067	TR401	ML-367614	125	ZG-375954T	10
ES-373100	89	ET-360067	TR403	ML-367614	2	ZG-375956T	12
ES-373100	36	ET-360067	TR405	ML-367616	126	ZG-375957T	25
ES-375736	91	ET-360067	TR406	ML-367616	3	ZG-375958T	27
ES-375736	SW917	ET-360067	TR407	ML-367617	127	ZG-375959T	22
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ET-302502	111	ET-360067	TR5	ML-373036	3	ZG-500794	33
ET-302502	TR1	ET-360067	TR6	ML-373038	1	ZS-201464	44
ET-321644	110	ET-360067	TR7	ML-373043	128	ZS-321298	3
ET-321644	TR10	ET-361463	93	ML-373043	6	ZS-321298	18
ET-353897	99	ET-361463	12	ML-373075	124	ZS-362378	4
ET-353897	TR207	ET-361490	106	ML-373075	5	ZS-362378	7
ET-353899	109	ET-361490	30	ML-500730T	14	ZS-362378	10
ET-353899	TR9	ET-363953	94	ML-500881	129	ZS-364545	28
ET-353899	TR11	ET-363953	TR205	ML-500881	31	ZS-364545	9
ET-353899	TR16	ET-364093	107	MR-373045	31	ZS-368173	13
ET-353899	TR17	ET-364093	TR11	MR-373087	25	ZS-368524	13
ET-353899	TR18	ET-366677	118	MS-368798T	5	ZS-368547	11
ET-353899	TR200	ET-366677	TR10	MS-372186	12	ZS-370047	11
ET-353899	TR212	ET-366677	TR8	MS-373095	11	ZS-373532	32
ET-353899	TR216	ET-368084	115	MZ-V1075A090A	134	ZS-373895	7
ET-353899	TR515	ET-368084	TR404	MZ-V1075A090A	14	ZS-373895	9
ET-353899	TR516	ET-368836	96	MZ-V1075A100A	135	ZS-373895	27
ET-353899	TR521	ET-368836	TR904	MZ-V1075A100A	16	ZS-373895	28
ET-353899	TR402	ET-370310	105	MZ-367628	137	ZS-373895	37
ET-353899	TR409	ET-370310	TR524	MZ-367628	23	ZS-373896	19
ET-353899	TR801	ET-373985	98	MZ-368790T	1	ZS-373897	35
ET-353899	TR805	ET-373985	TR502	MZ-368791T	2	ZS-373899	17
ET-353899	TR1	ET-373985	TR507	MZ-368794T	138	ZS-374023	13
ET-354364	103	ET-373985	TR512	MZ-368794T	4	ZS-378341	41
ET-354364	TR907	ET-373985	TR514	MZ-368795T	139	ZS-419782	10
ET-354364	TR908	ET-373985	TR526	MZ-368795T	8	ZS-464703	21
ET-354364	TR909	ET-375777	112	MZ-388797T	131	ZS-467798	9
ET-354365	100	ET-375777	TR1	MZ-368797T	6	ZS-479474	5
ET-354365	TR517	ET-375777	TR5	MZ-373079	1	ZS-479474	10
ET-354371	101	ET-375983	95	MZ-500707T	132	ZS-563444	6
ET-354371	TR508	ET-375983	TR522	MZ-500707T	20	ZW-324417	39
ET-354371	TR518	ET-375986	102	MZ-500715T	133	ZW-324417	5
ET-354414	104	ET-375986	TR525	MZ-500715T	26	ZW-332843	45
ET-354414	TR8	ET-376663	117	MZ-500716T	136	ZW-350839	26
ET-354414	TR202	ET-376663	TR13	MZ-500716T	24	ZW-350839	40
ET-354414	TR209	ET-376663	TR14	MZ-500717T	130	ZW-373088	23
ET-354414	TR214	ET-376818	114	MZ-500717T	19	ZW-373089	24
ET-354414	TR503	ET-376818	TR9	SA-353927B	8	ZW-373898	35
ET-354414	TR504	EV-356324	VR2	SC-375525A	1	ZW-373898	25
ET-354414	TR505	EV-356324	VR3	SE-368476T	37A	ZW-373901	34
ET-354414	TR520	EV-356324	VR202	SE-374026	37B	ZW-516993	13
ET-354414	TR800	EV-356324	VR203	SE-500932T	39A	ZZ-368635	6
ET-354414	TR900	EV-356577	VR700	SE-500934T	39B		
ET-354414	TR901	EV-356579	VR206	SM-500675T	4		
ET-354414	TR902	EV-356582	VR701	SM-500676T	5		
ET-354414	TR903	EV-356583	VR207	SP-500680T	3		
ET-354414	TR906	EV-356583	VR208	SP-500772	12		
ET-354415	97	EV-358829	VR200	SP-500867T	2		
ET-354415	TR500	EV-358829	VR201	SP-500870T	3		
ET-354415	TR527	EV-358829	VR204	SP-500887T-A	30		
ET-356669	113	EV-358829	VR205	SZ-375956T	3		
ET-356669	TR2	EV-368135	VR1	TR-373025	140		
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ET-356224	TR13	EV-373958	119	TR-373025	TR4		
ET-356224	TR19	EV-373958	VR900	VT-367622	141		
ET-356224	TR210	EV-374014	VR209	VT-367622	43		
ET-356224	TR511	EV-374014	VR210	VT-373884	4		
ET-360067	116	EV-376139	VR1	ZG-373046	32		
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ABBREVIATIONS (VIDEO)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	LM STP	Loading Motor SToP
ACC	Auto Color Control	LP	Long Play
A/C	Audio and Control	LPF	Low Pass Filter
ADJ	ADJust(ment)	LSW	Loading Switch
AFC	Auto Frequency Control	ME-SECAM	Middle East SECAM
AFT	Auto Fine Tuning	MI-COM	Micro COMputer
AGC	Auto Gain Control	MM	Mono-stayble Multi
AH(P)	Audio Head (Play Back)	MRS	Motor ReverSe
AH(R)	Audio Head (Record)	NG	Noise Gate
AL	ALl	NON-LIN	NON-LINear
AL	ALways	N.T.S.C.	National Television System Committee
ALC	Auto Level Control	O MUTE	Output MUTE
A-SW.P	Audio-Switching-Pulse	OSC	OSCillator
A-MUTE	Audio-MUTE	PAL	Phase Alternation Line
AUT/MAN	AUTO/MANual	PB	Play Back
ANT	ANTenna	P-COM	Phase-COMparator
APC	Automatic Phase Control	PDN	Power Down
ASSY	ASSEMBLY	PG	Pulse Generator
BAL	BALance	PL, PLG	PLunger (PLunGer)
B/C	Buzz and Charactor	POS	POSition
B DOWN	Break DOWN	PRG	PRoGram
BGP	Burst Gate Pulse	P & S	Power supply & System control
BLK	BLack or BLock	PU	Pick Up (head, pulse)
BM	Balanced Modulator	PWR	POWeR
BPF	Band Pass Filter	Q	Quality factor
BS	Band Select	RC	Rotary Control
BS (SB)	Brake Supply (Supply Brake)	REC	RECORD
BT (TB)	Brake Takeup (Takeup Brake)	REF	REference
BU	Back Up	REF-V	REference Vertical signal
B/W	Black and White	REG	REGulator
CCIR	Comité Consultatif International des Radio Communications	REV (REVW)	REView (REView)
CH (Ch.)	CHannel (Channel)	REW	REWind
CK	Color Killer	RFB	Radio Frequency Booster
CLK	CLock	RM	Reel Motor
CLP	CLiP	RM PWR	Reel Motor PoWeR
CM	Capstan Motor	R-S SW	Record-Safety SWitch
CN	CoNnector	RST (RES)	ReSeT (RESet)
COMP	COMParator	RVS	ReVerSe
Comp	Comparison	S	Sensor, Shield
C or R	Cue or Review	SC	SimulCast
CR I	Cue Review I (high)	S CLK	Serial CLock
CSW	Cassette SWitch	S & A	Servo & Audio
CTL	ConTroL	SECAM	Séquentiel à Memoire
CUE	CUE	SEP (SEPA)	SEParator (SEParator)
CW	Carrier Wave	SFP	Sync Front Pulse
DAC	Digital to Analog Converter	S & H	Sample and Hold
DC	Direct Current	SLP	Super Long Play
DEMODO	DEMOdulator	SP	Standard Play
DET	DETECT (DETECTOR)	SPD	SPEeD
DL	Delay Line	SRP	Supply Reel Pulse
DM	Drum Motor	SRV	SeRVo
DOC	Drop Out Compensator	SOW	Sync On Word
D-P.E	Drum-Phase-Error	STBY	STandBY
D-PG	Drum-Pulse Generator	SW	SWitch
D-TPZ	Drum-TraPeZoid	SW'NG	SWitchING
EE	Electronic to Electronic	SWP	SWitching Pulse
EF	Emitter Follower	SYNC	SYNChronize
EM	Eject Motor	T-AUDIO	Tuner AUDIO
EMPHA	EMPHAsis	TA-MUTE	Tuner Audio MUTE
ENVIN	ENVELOpe INput	TPZ (TRAPE)	TraPeZoid (TRAPEzoid)
ESW	Eject Switch	TRK	TRackIng
EQ	EQUALizer	TRP	Take up Reel Pulse
FE	Full track Erase	T/U	Take Up
FF	Flip-Flop	TV	TeleVision
FG	Frequency Generator	UHF	Ultra High Frequency
Fig	Figure	UNR	UNRegulated
FM	Frequency Modulation	V	Vertical
Fo	resonance Frequency.	VCO	Voltage Controlled Oscillator
FREQ	FREQUENCY	VD	Vertical Drive
FSI	Field Start Inhibit	VF	Voltage for Fine tuning
GND	GrouND	VHF	Very High Frequency
H	Horizontal	VHS	Video Home System
HP	Horizontal (sync) Pulse	VID	VIDeo
HPF	High Pass Filter	VIDEO-J	VIDEO Judge
HT	HeaTer	VIF	Video Intermediate Frequency
IC	Integrated Circuit	VJ	Video Judge
ID	IDentification	VM	Voltage for Memory
IDL	IDLe (Voltage)	VOB	Video On Blank
INS	INSert	VOW	Video On Word
INV	INVerter	VP	Vertical (sync) Pulse
L-CTL	Lamp-ConTroL	VT	Voltage for Tuning
LED	Light Emitting Diode	WHT	WHITe
LDI	Load Input	2H	2 Hour (SP)
LM	Loading Motor	6H	6 Hour (SLP)

VS-35U
VS-33U/UM

AKAI ELECTRIC CO., LTD.

12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan
TEL: Tokyo (742) 5111 CABLE: HIFIAKAI TOKYO TELEX: J26261
Printed No. 870805-11-1700 Printed Date: September 7, 1987
950 Printed in Japan

AKAI

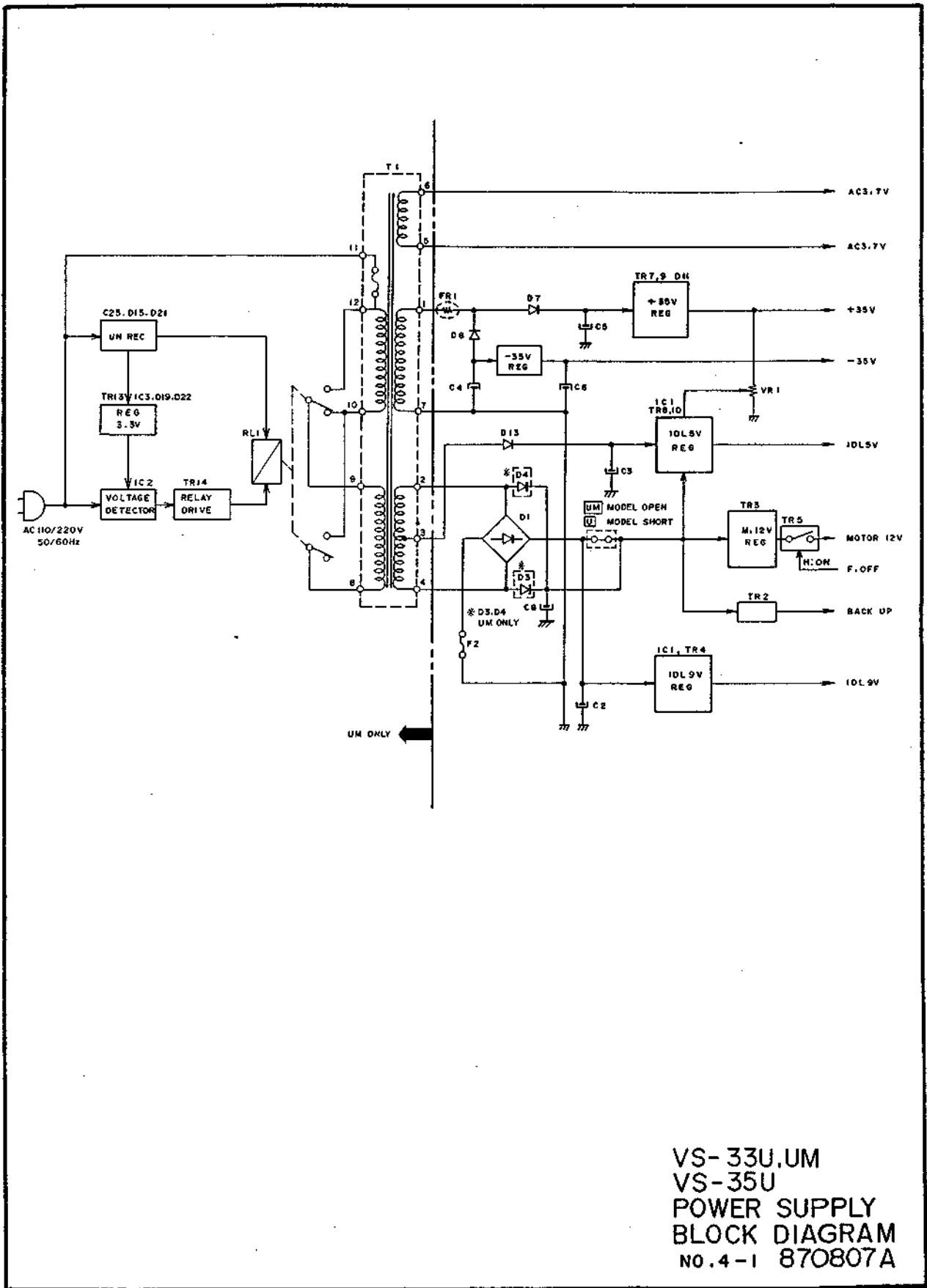
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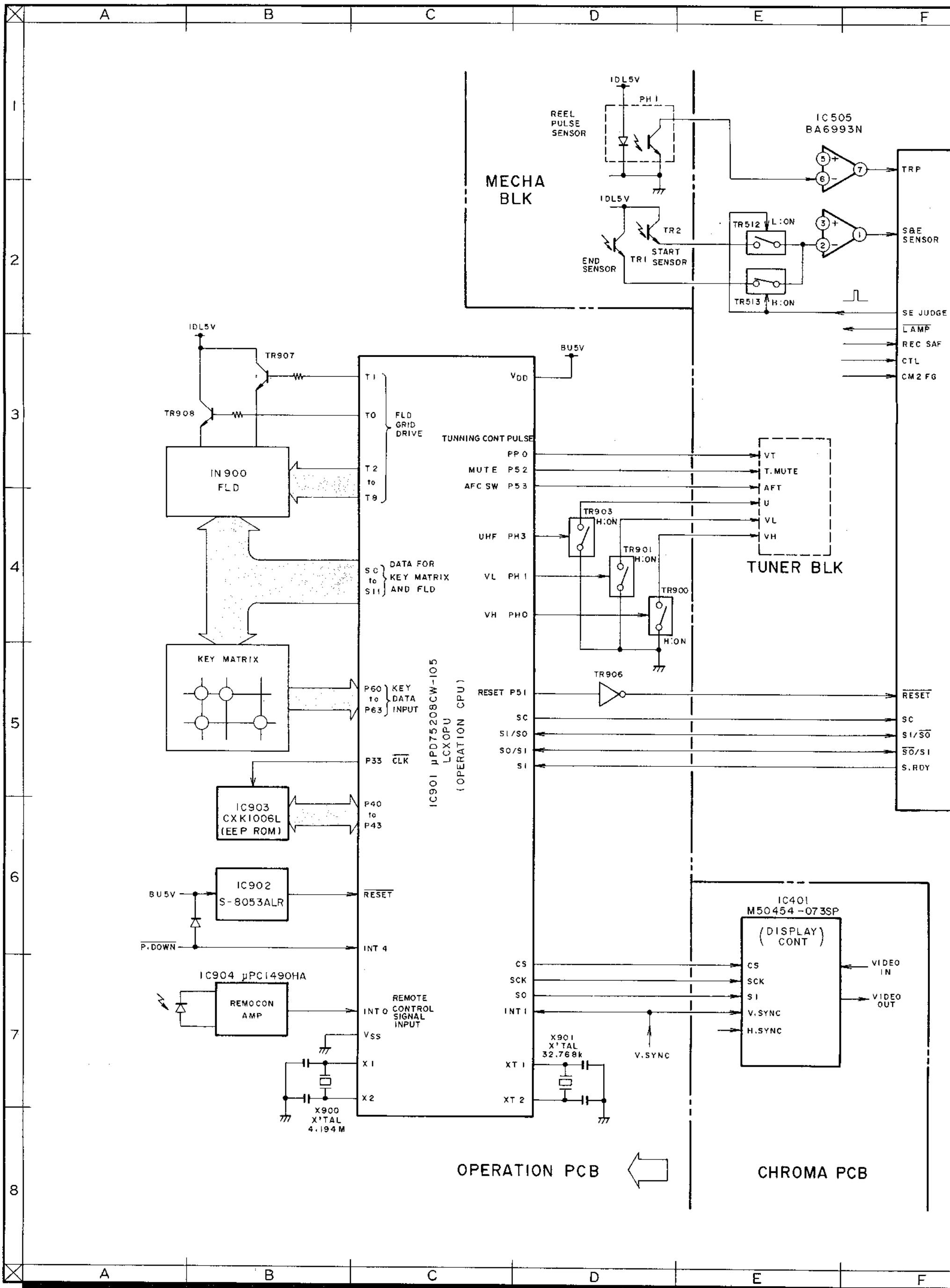
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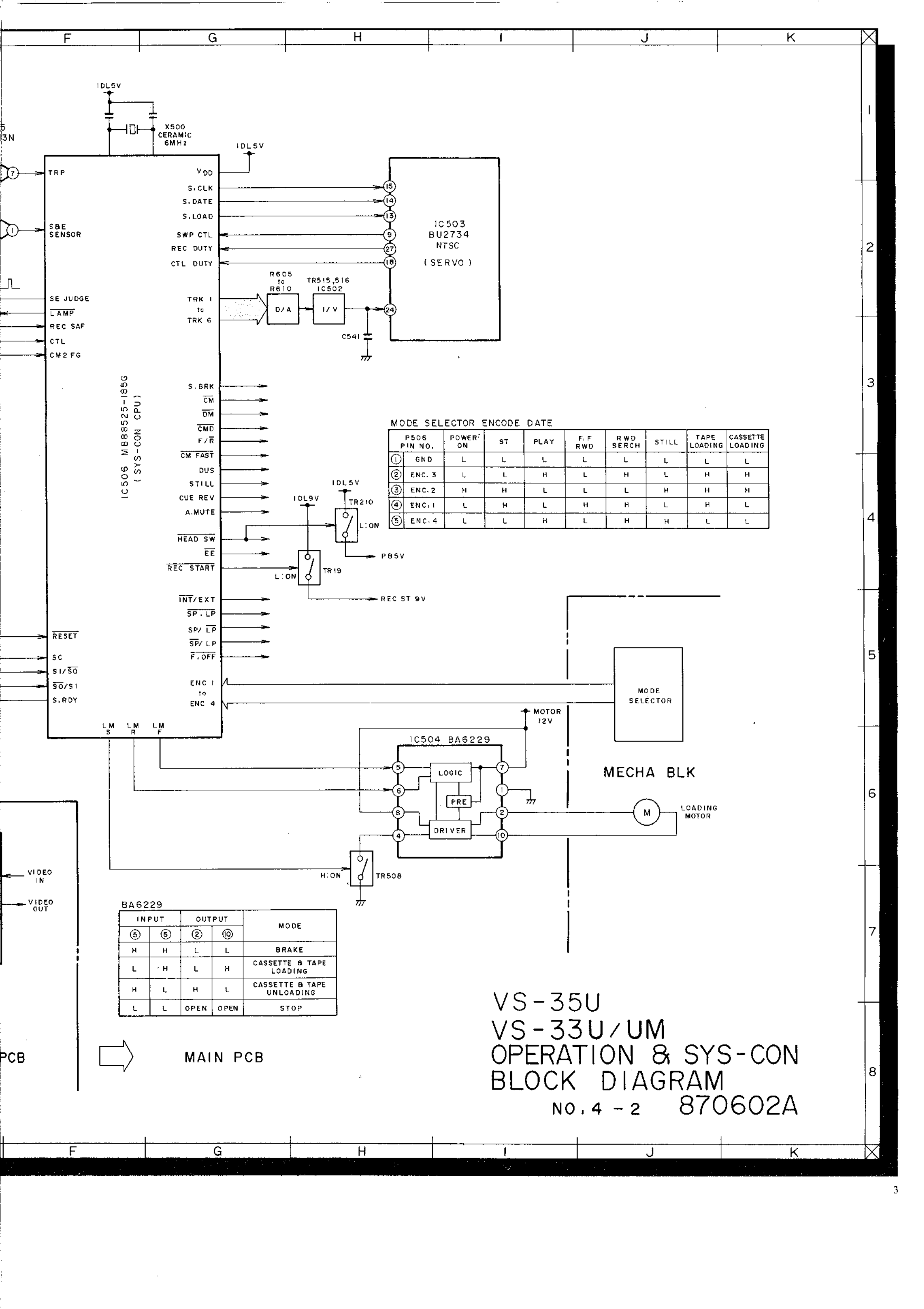
SCHEMATIC DIAGRAM AND PC BOARDS

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IC506 MB88525-185G
(SYS-CON CPU)

MODE SELECTOR ENCODE DATE

P506 PIN NO.	POWER ON	ST	PLAY	F.F RWD	RWD SERCH	STILL	TAPE LOADING	CASSETTE LOADING
①	GND	L	L	L	L	L	L	L
②	ENC. 3	L	L	H	L	H	L	H
③	ENC. 2	H	H	L	L	L	H	H
④	ENC. 1	L	H	L	H	H	L	L
⑤	ENC. 4	L	L	H	L	H	L	L

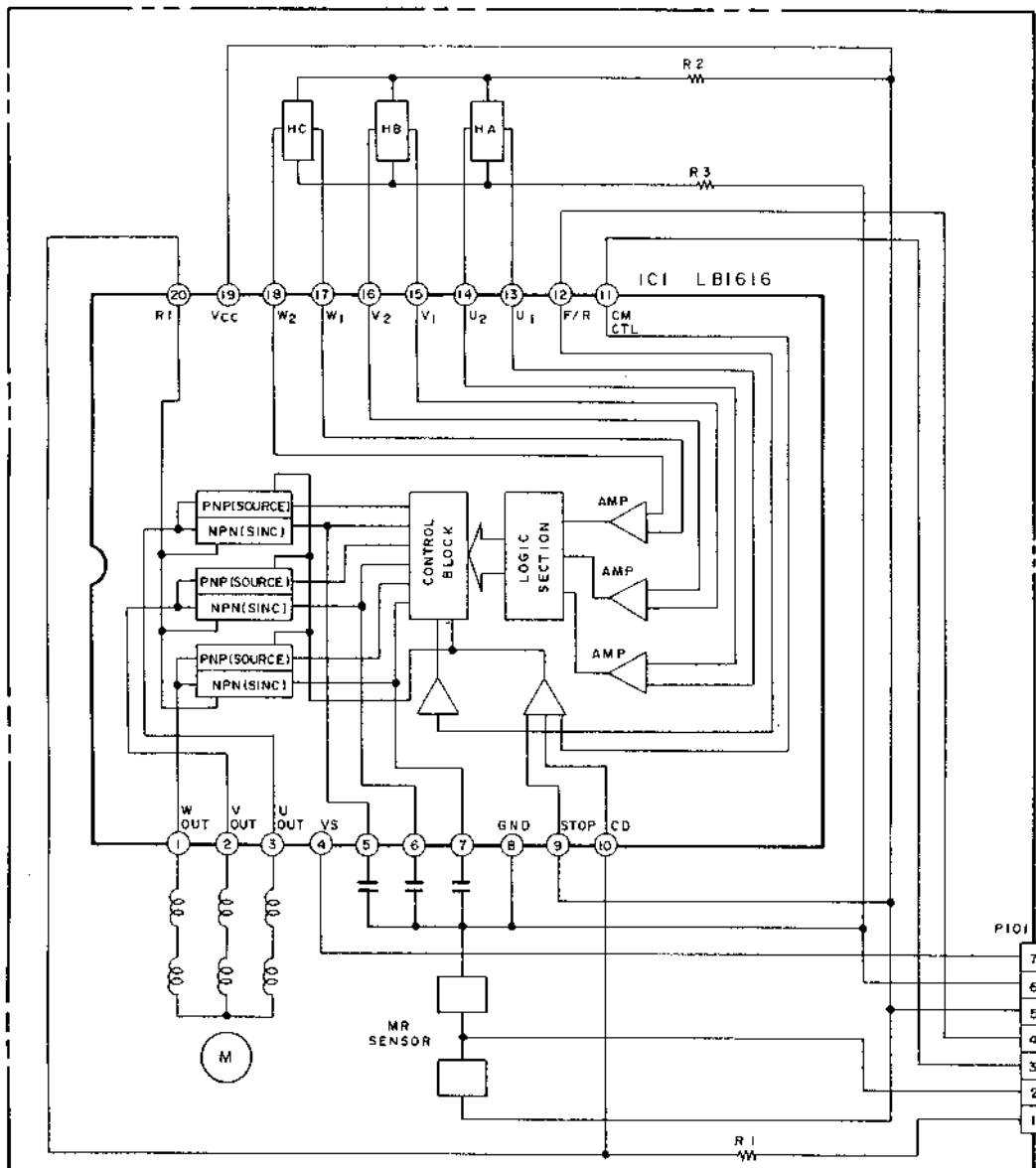
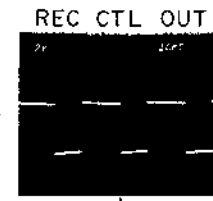
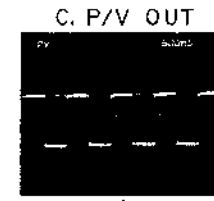
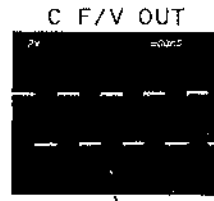
BA6229

INPUT		OUTPUT		MODE
⑤	⑥	②	⑩	
H	H	L	L	BRAKE
L	H	L	H	CASSETTE & TAPE LOADING
H	L	H	L	CASSETTE & TAPE UNLOADING
L	L	OPEN	OPEN	STOP

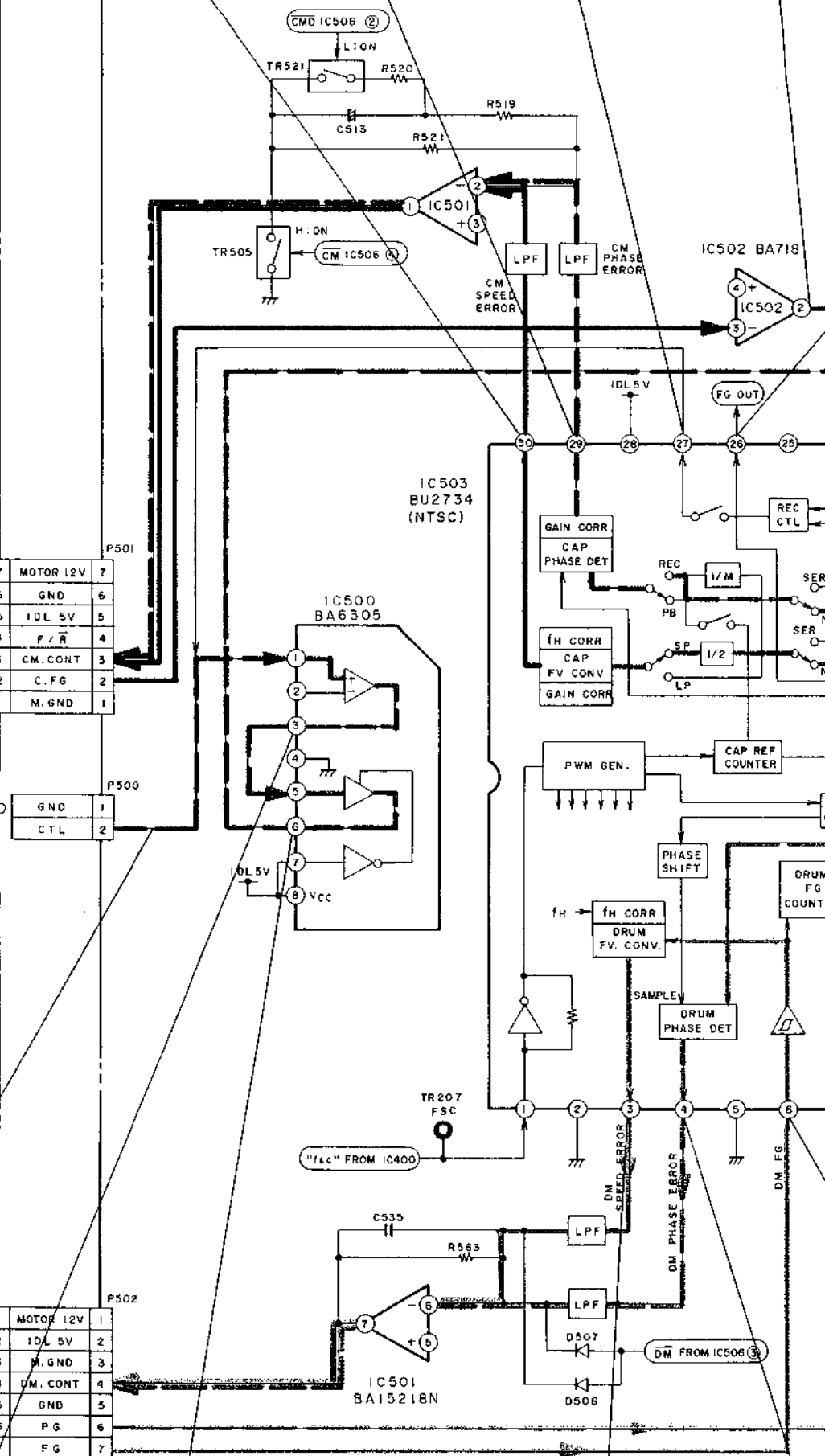
VS-35U
VS-33U/UM
OPERATION & SYS-CON
BLOCK DIAGRAM
NO. 4 - 2 870602A

PCB → MAIN PCB

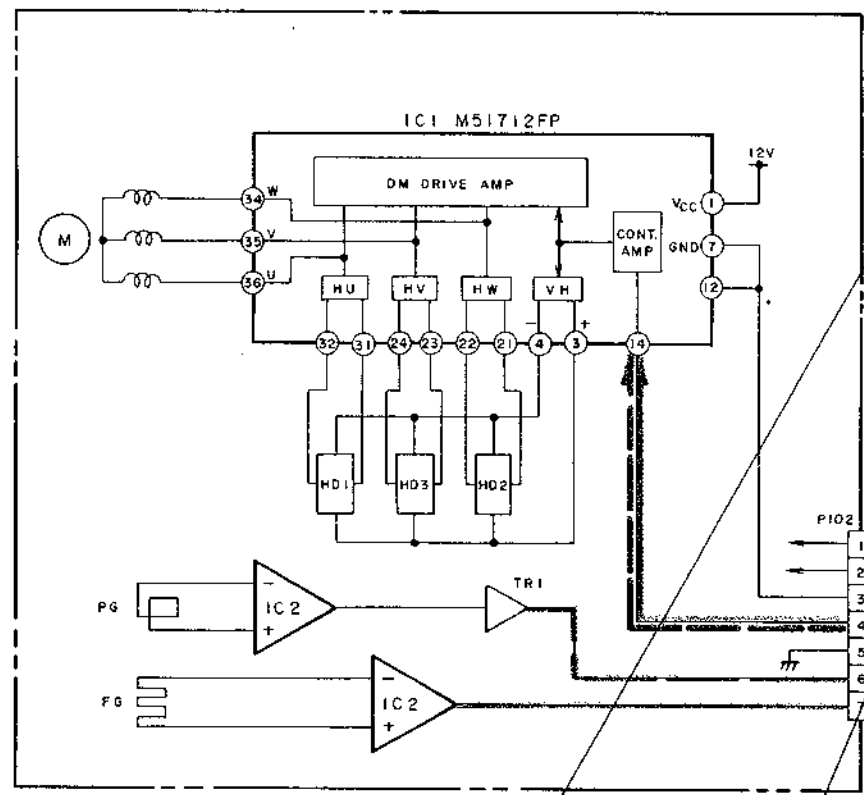
CAPSTAN FG
 SP: 2158.09Hz
 EP: 719.36Hz



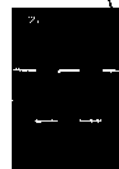
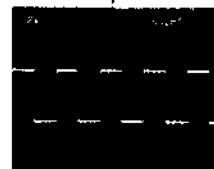
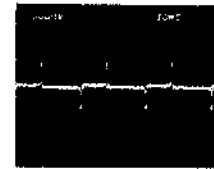
CAPSTAN MOTOR



MAIN PCB



DRUM MOTOR



REC CTL

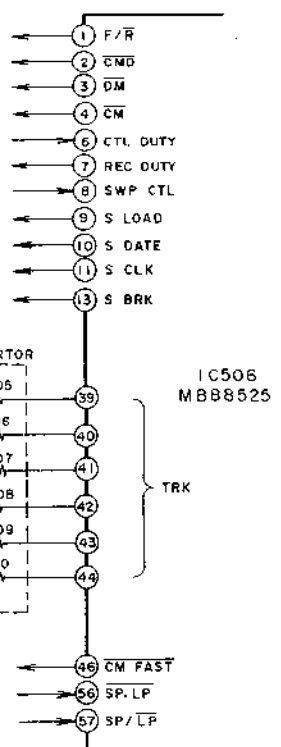
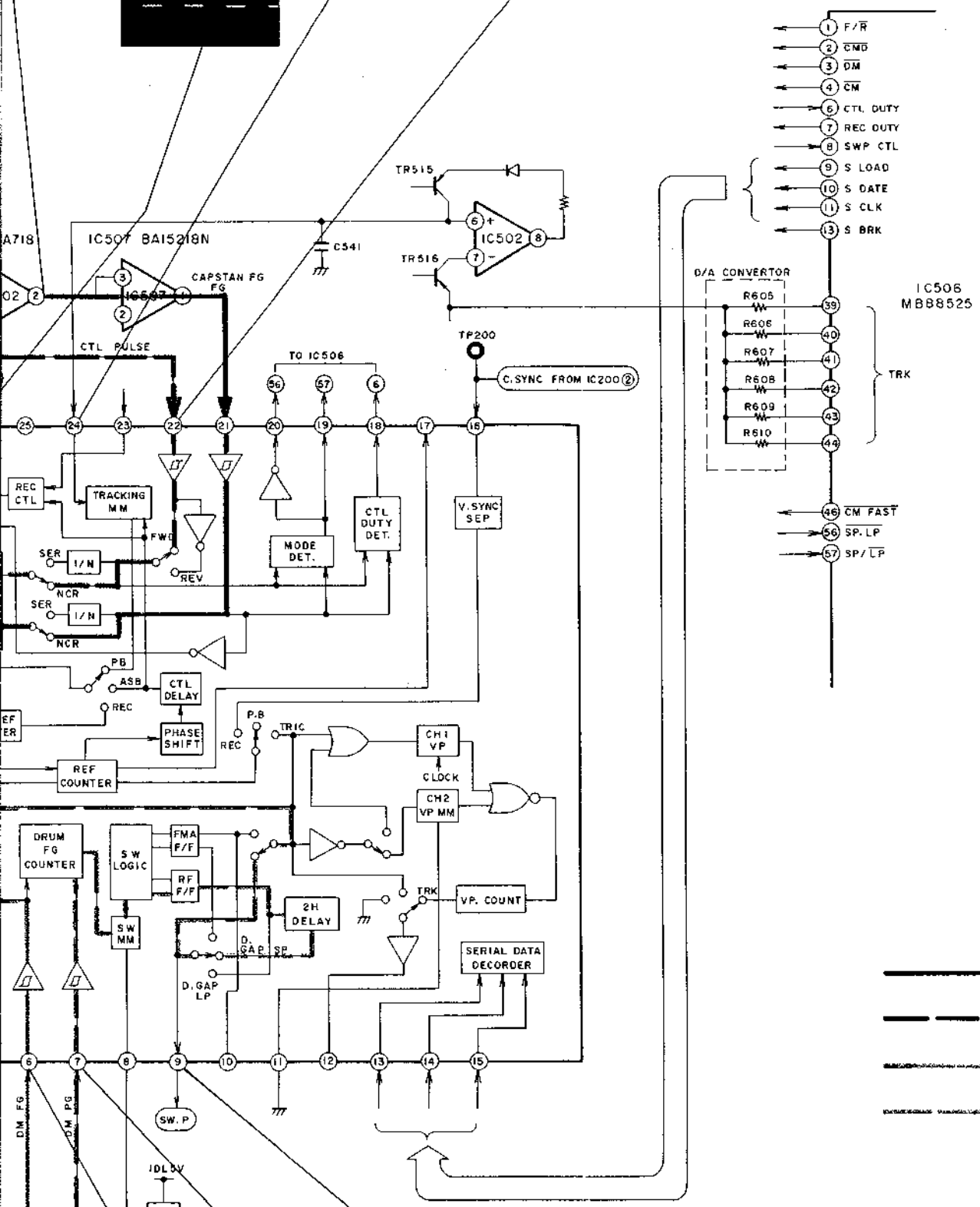
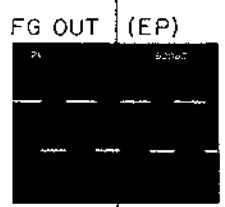
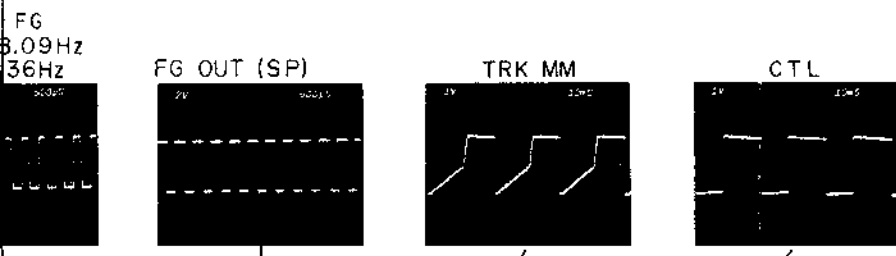
CTL AMP OUT

CTL

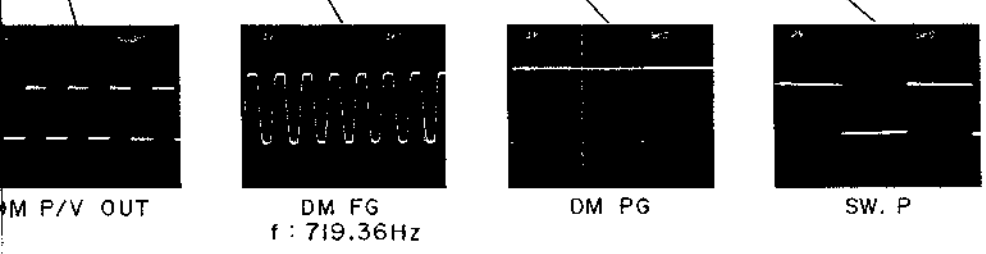
DM F/V OUT

DM P/V OUT

G H I J K

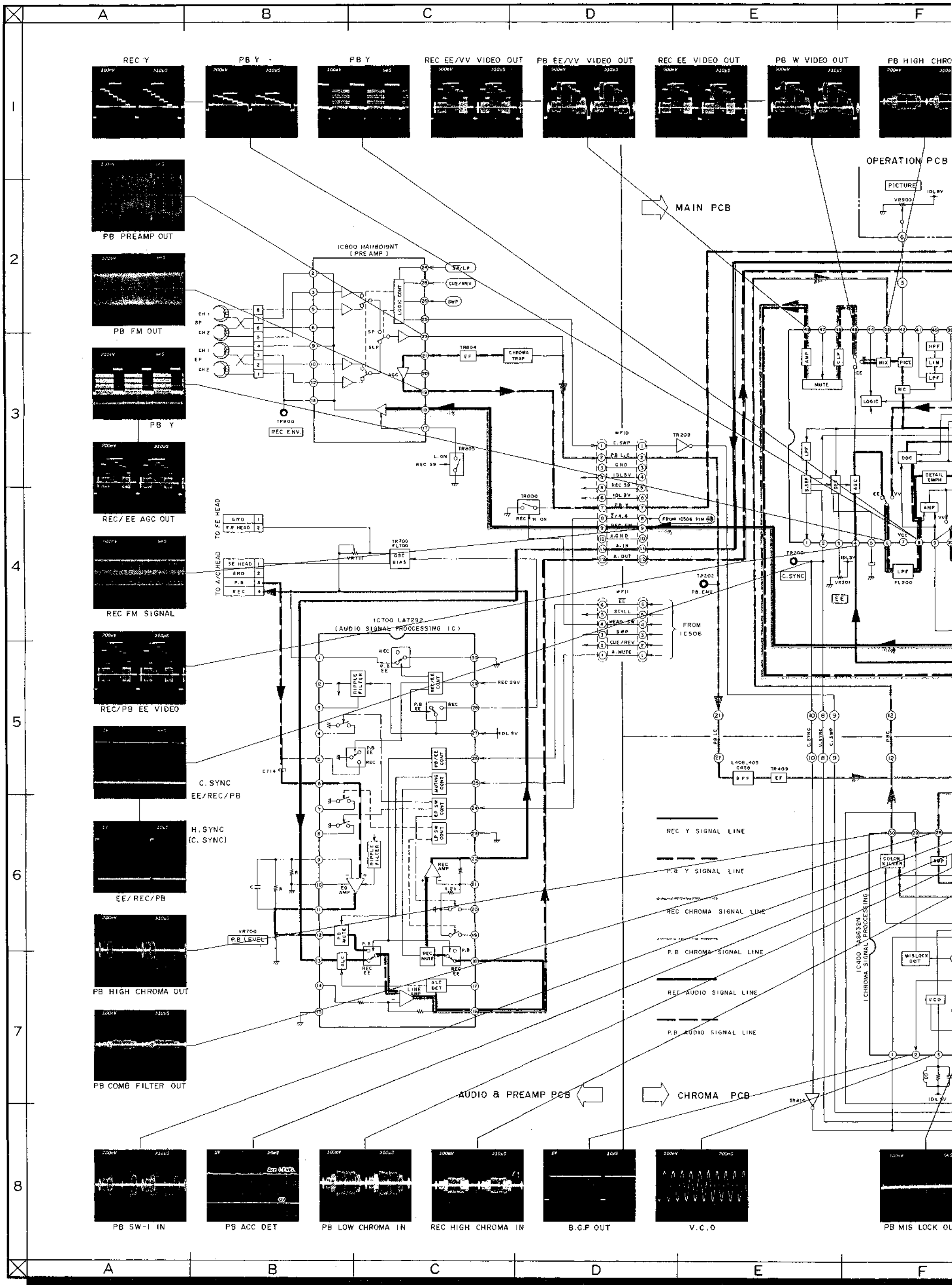


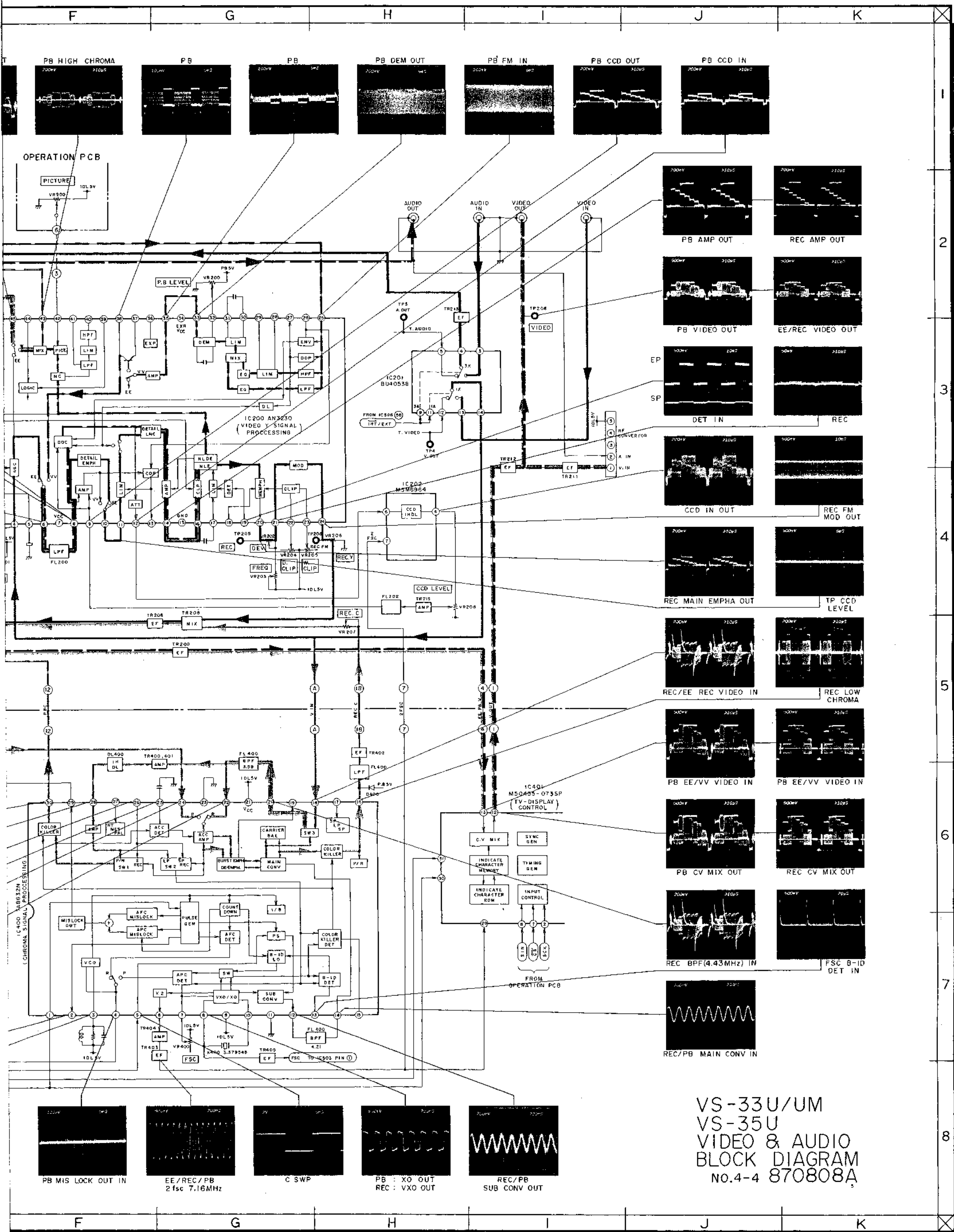
- CAPSTAN MOTOR SPEED
- CAPSTAN MOTOR PHASE
- DRUM MOTOR SPEED
- DRUM MOTOR PHASE



VS-33U/UM
 VS-35U
 SERVO
 BLOCK DIAGRAM
 NO.4-3 870809A

G H I J K



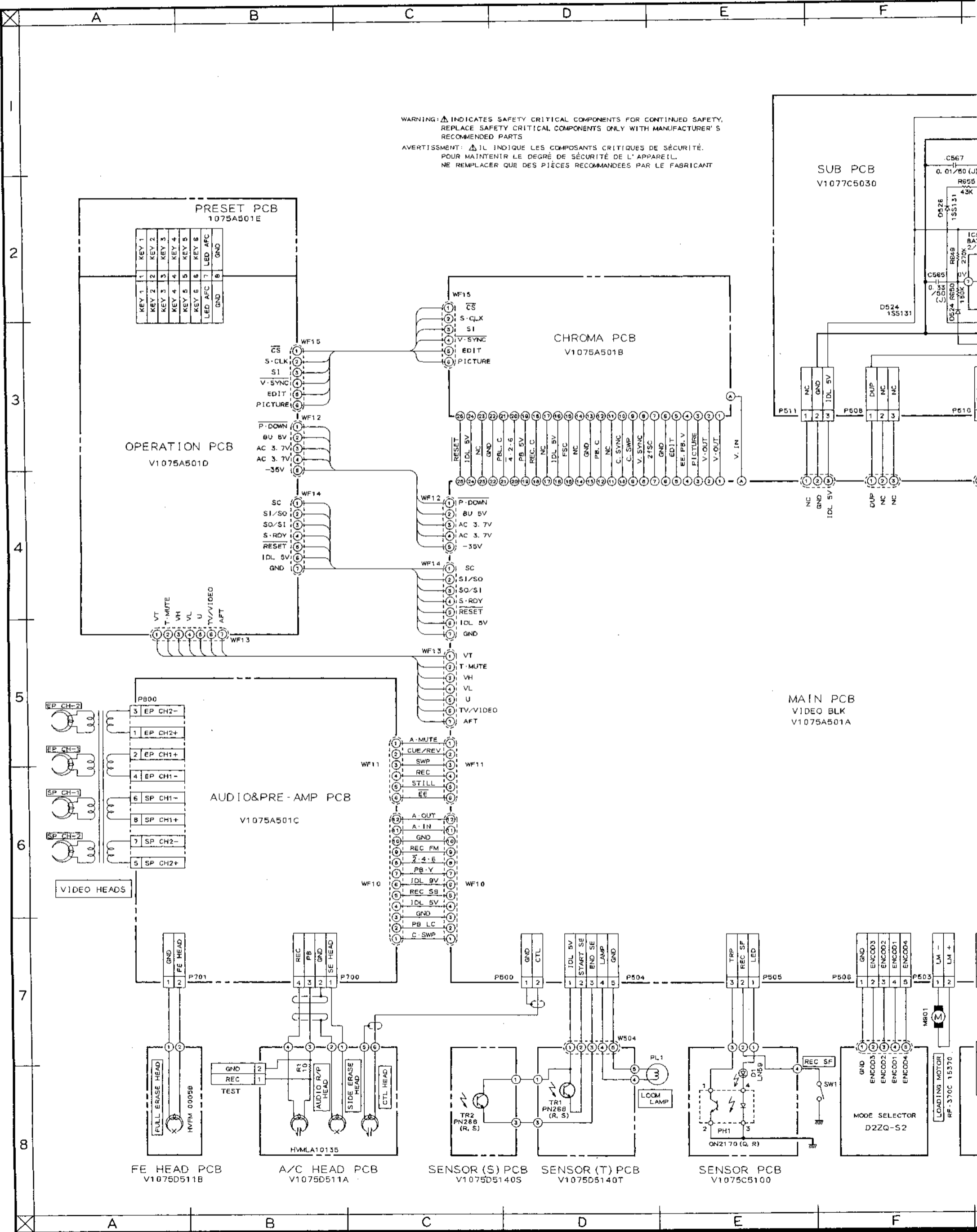


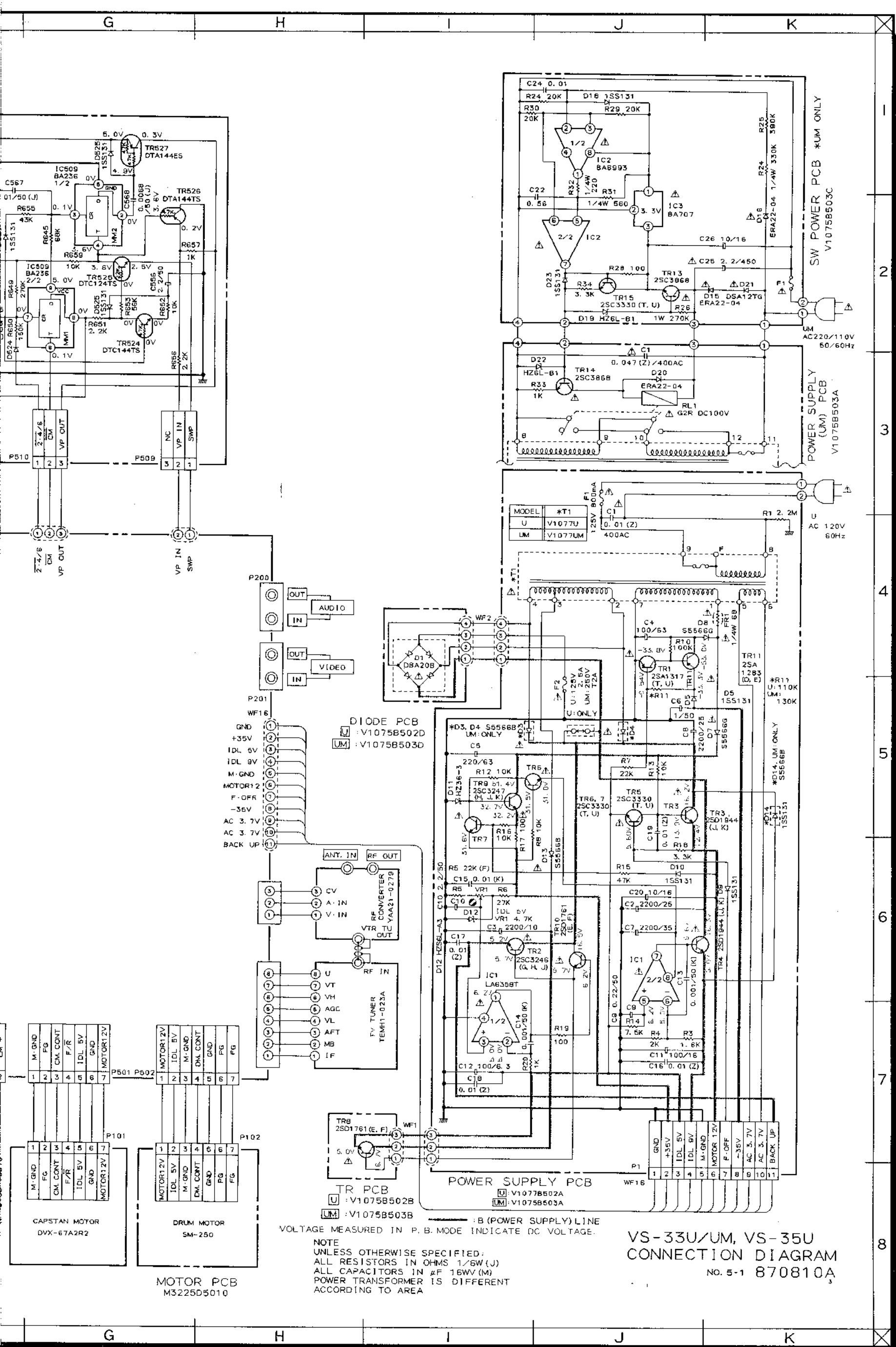
VS-33U/UM
 VS-35U
 VIDEO & AUDIO
 BLOCK DIAGRAM
 NO.4-4 870808A

1
 2
 3
 4
 5
 6
 7
 8

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.





MODEL	*T1
U	V1077U
UM	V1077UM

DIODE PCB
 U : V1075B502D
 UM : V1075B503D

TR PCB
 U : V1075B502B
 UM : V1075B503B

POWER SUPPLY PCB
 U : V1075B502A
 UM : V1075B503A

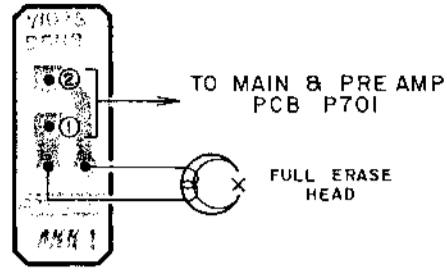
SW POWER PCB *UM ONLY
 V1075B503C

POWER SUPPLY (UM) PCB
 V1075B503A

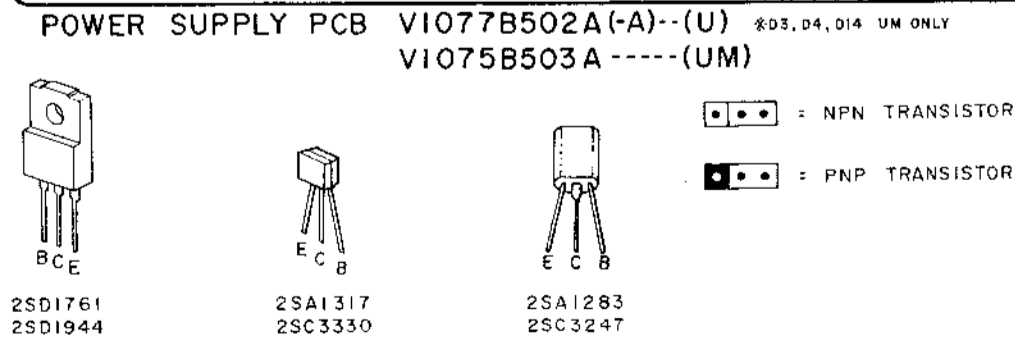
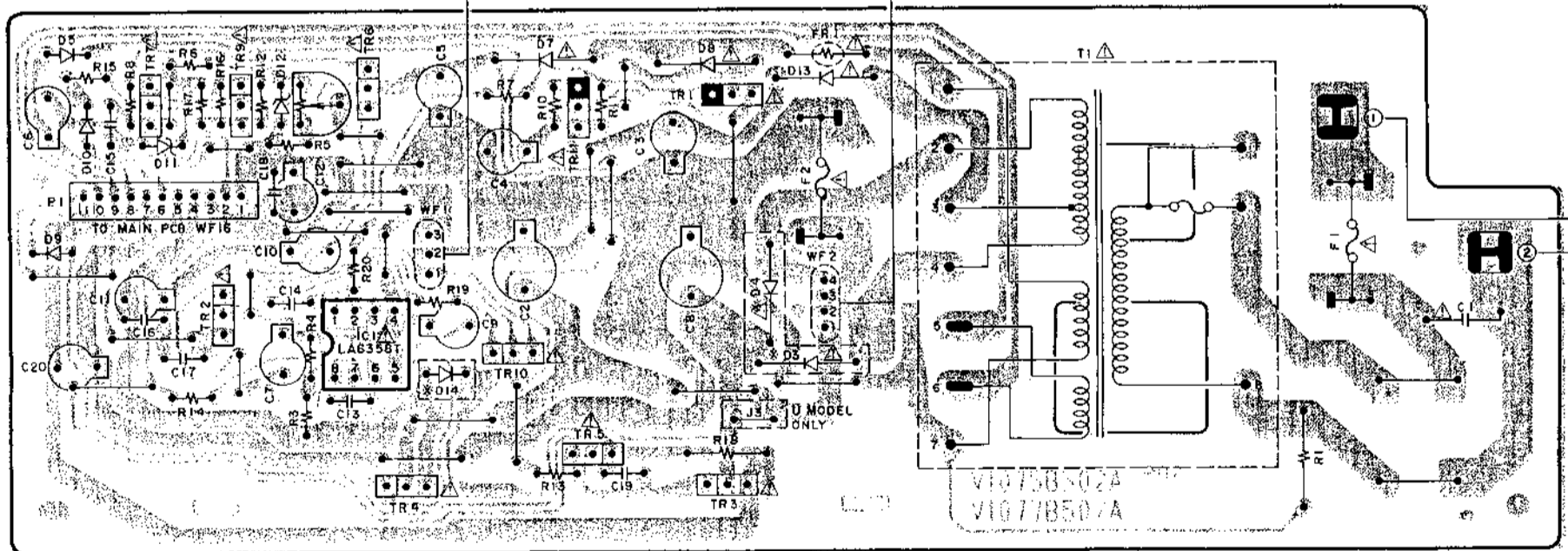
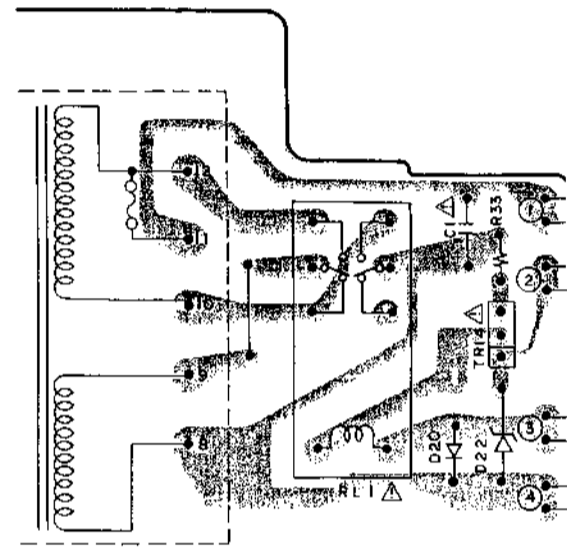
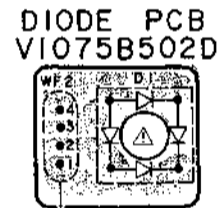
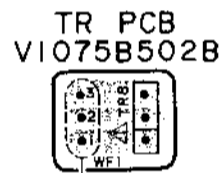
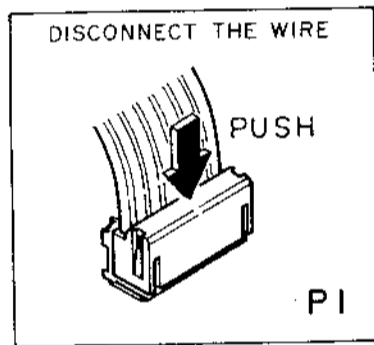
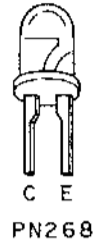
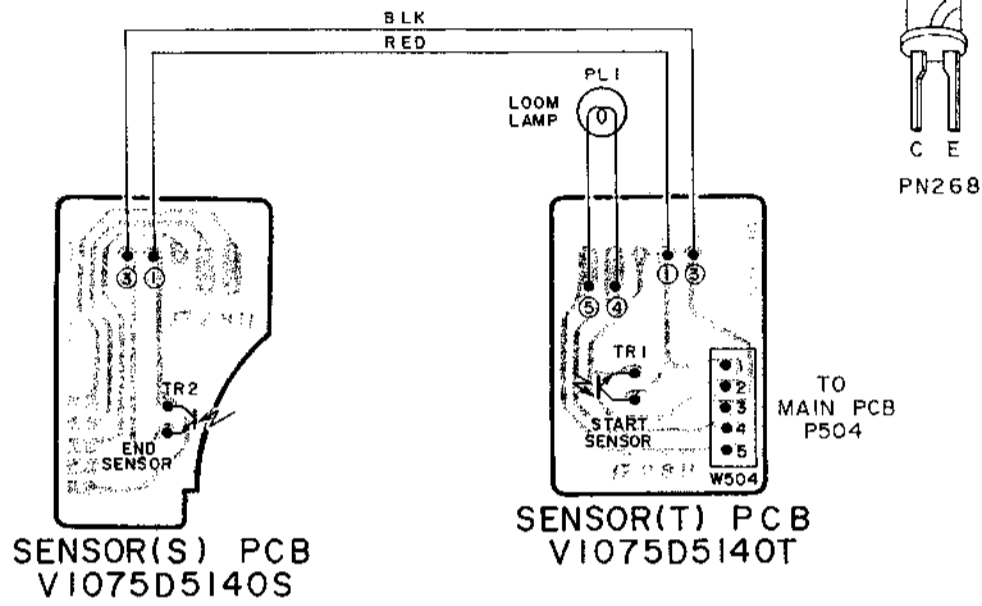
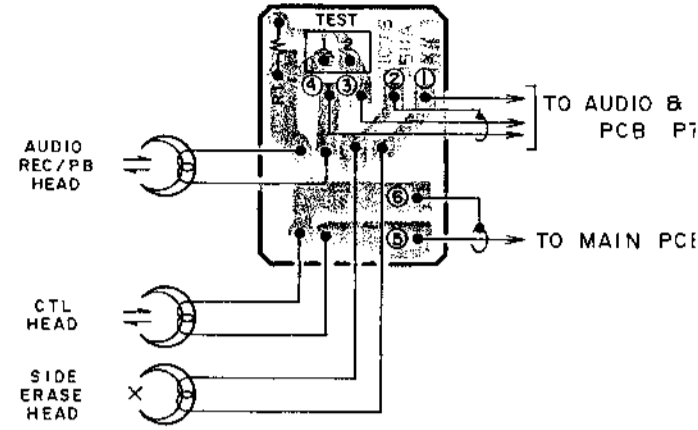
NOTE
 UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS IN OHMS 1/5W(J)
 ALL CAPACITORS IN μ F 16WV(M)
 POWER TRANSFORMER IS DIFFERENT
 ACCORDING TO AREA

VS-330/UM, VS-35U
 CONNECTION DIAGRAM
 NO. 5-1 870810A

FULL ERASE HEAD PCB
V1075D511B



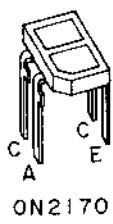
A/C HEAD PCB
V1075D511A



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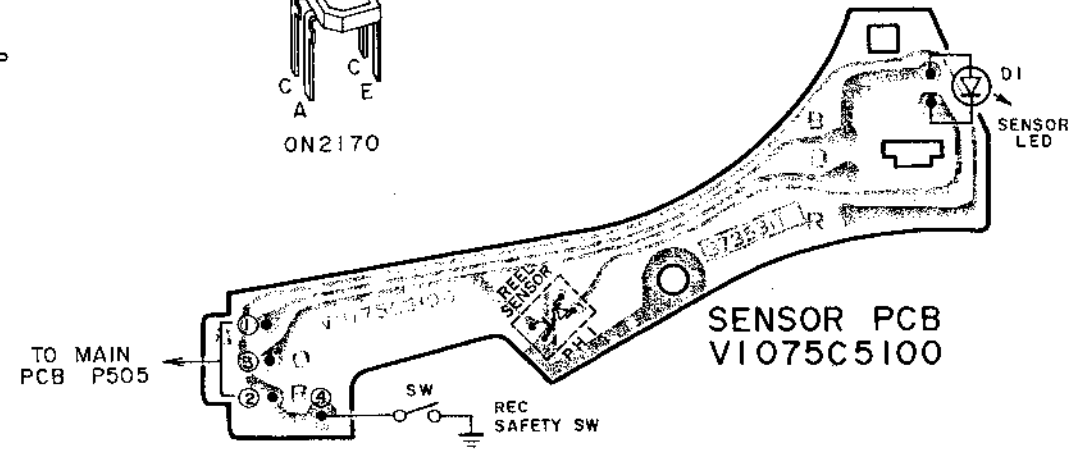
AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

TO AUDIO & PRE AMP
PCB P700

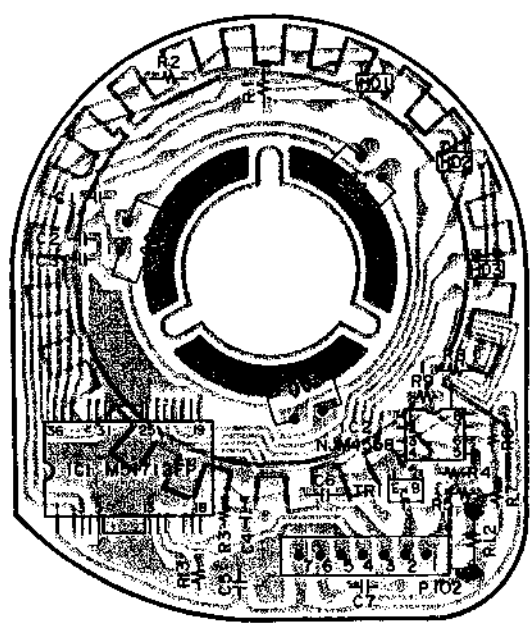


ON2170

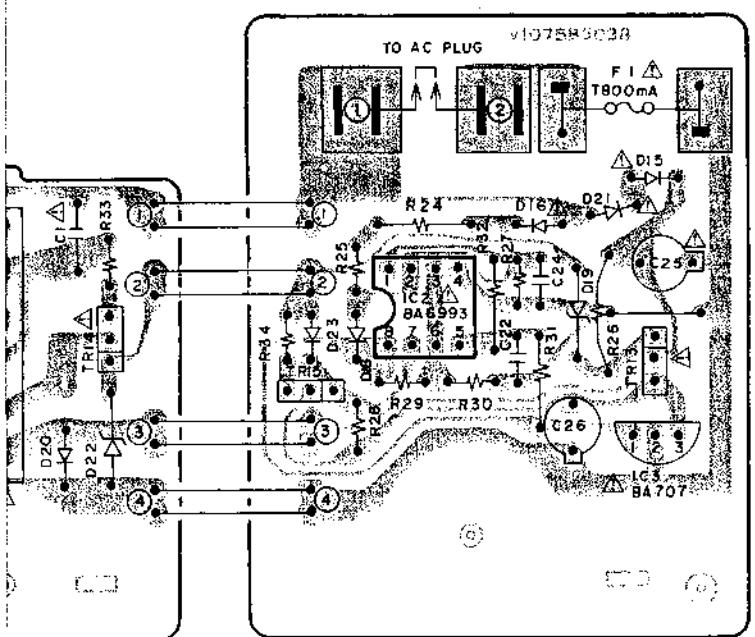
TO MAIN PCB P500



SENSOR PCB
V1075C5100

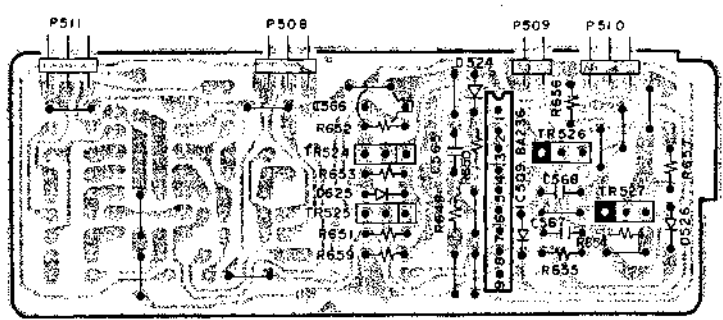
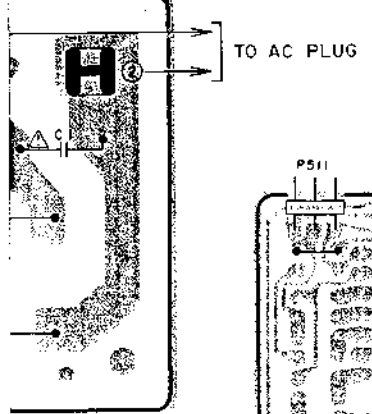


MOTOR PCB M3225D5010 (SM-250)



SW POWER PCB
V1075B503C

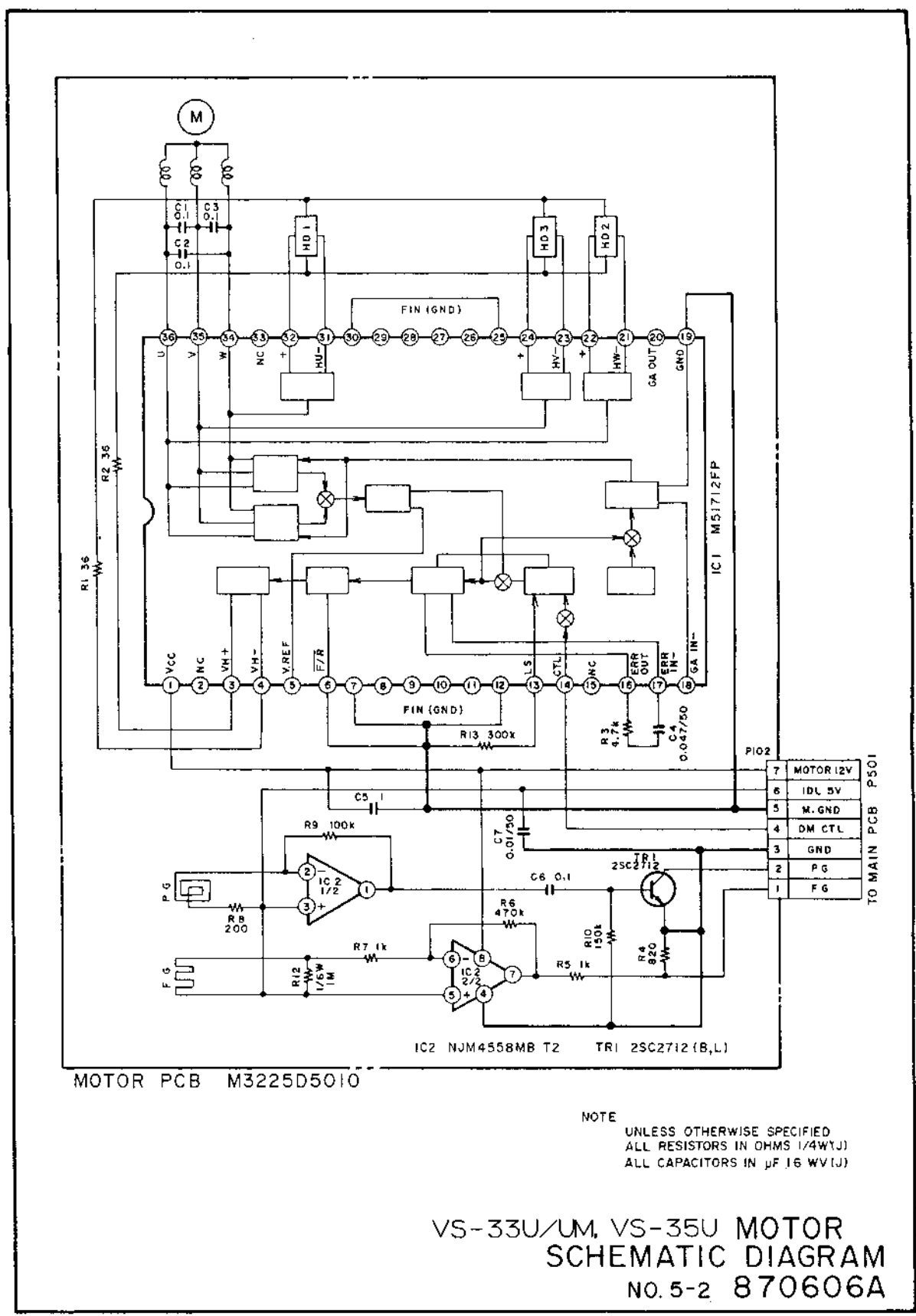
B



SUB PCB V1077C5030

CONTINUED SAFETY.
MANUFACTURER'S

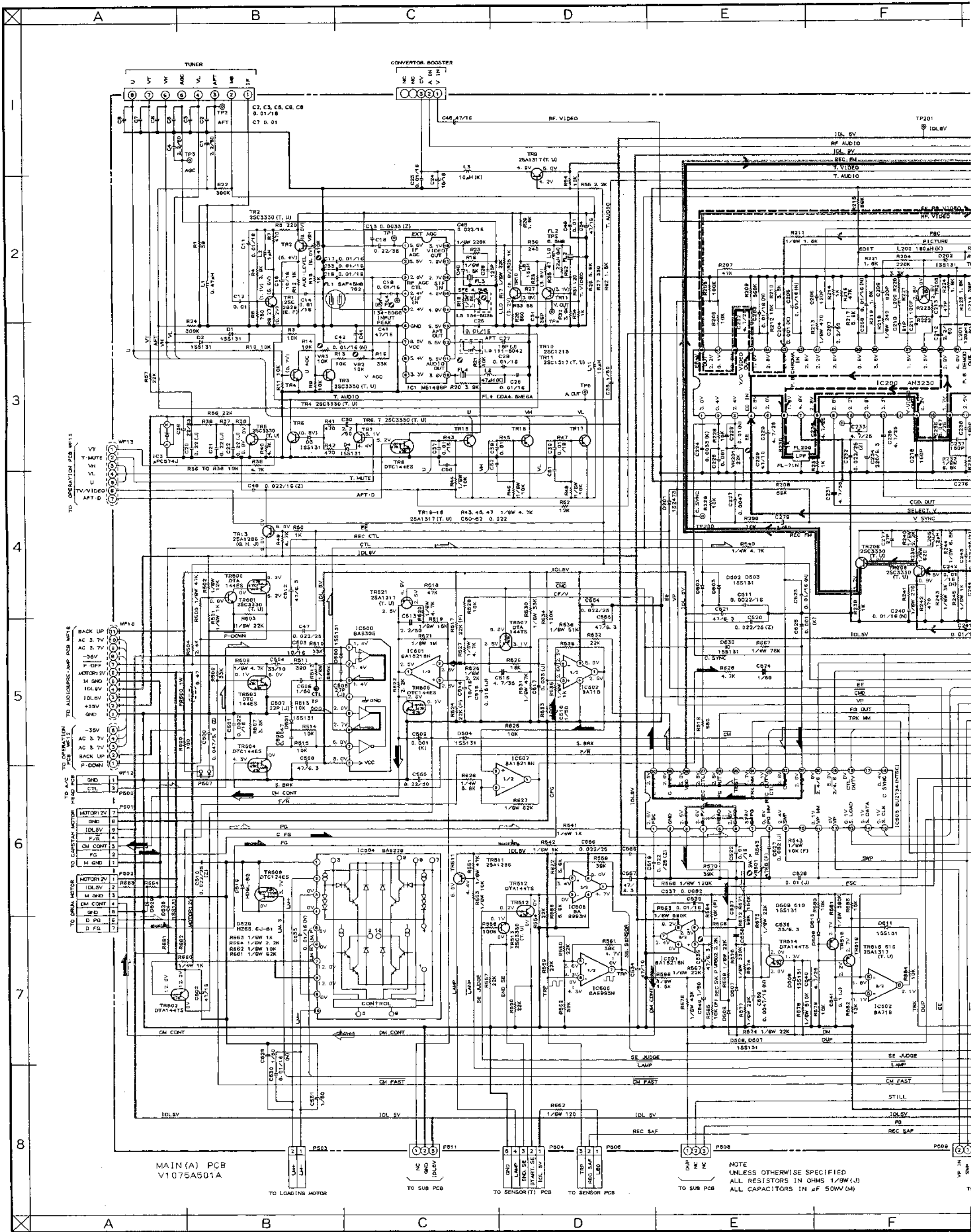
SÉCURITÉ
RELIÉ
PAR LE FABRICANT



MOTOR PCB M3225D5010

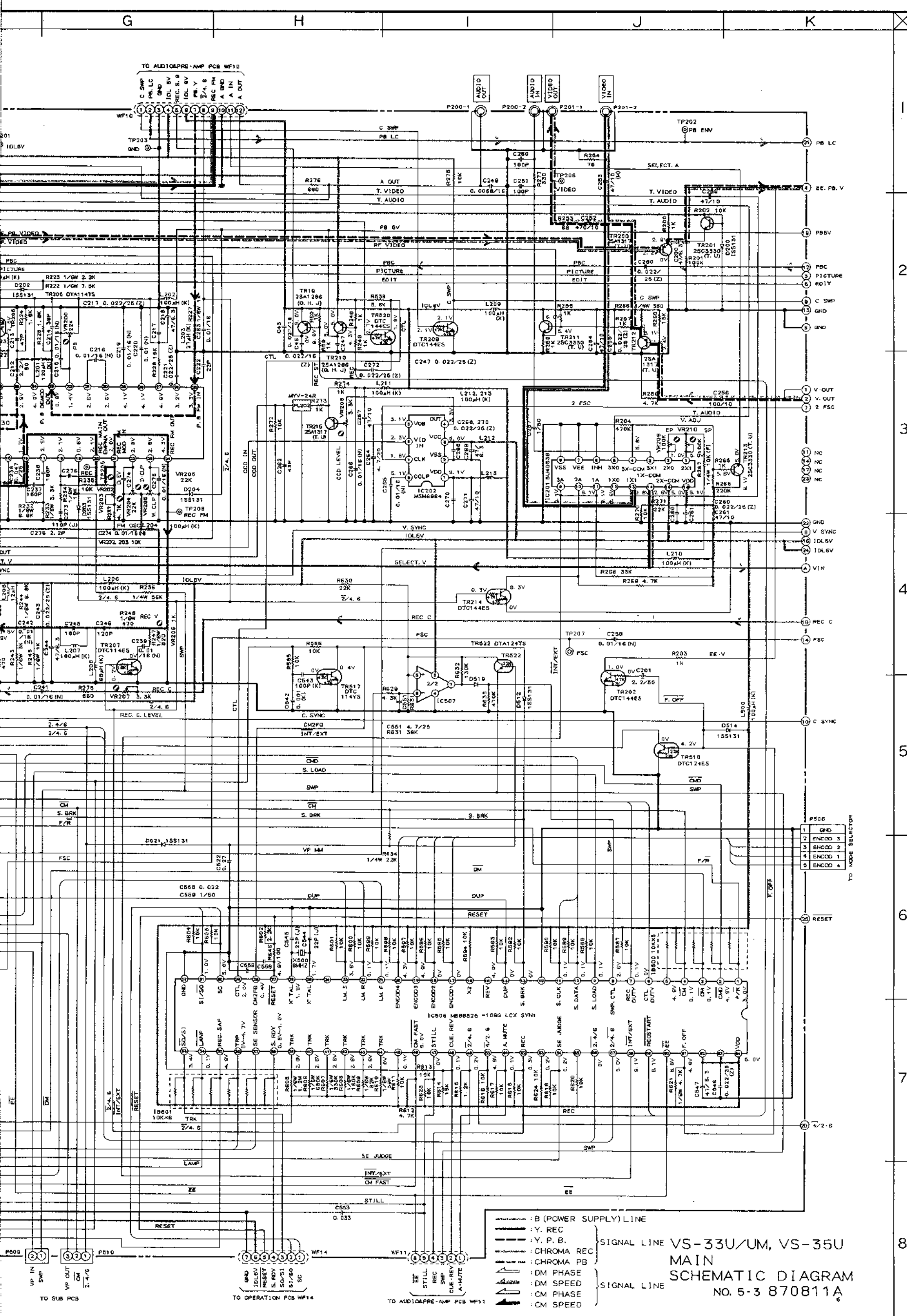
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(1J)
ALL CAPACITORS IN µF 16 WV(1J)

VS-33U/UM, VS-35U MOTOR
SCHEMATIC DIAGRAM
NO. 5-2 870606A



MAIN (A) PCB
V1075A501A

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN uF 50WV(M)

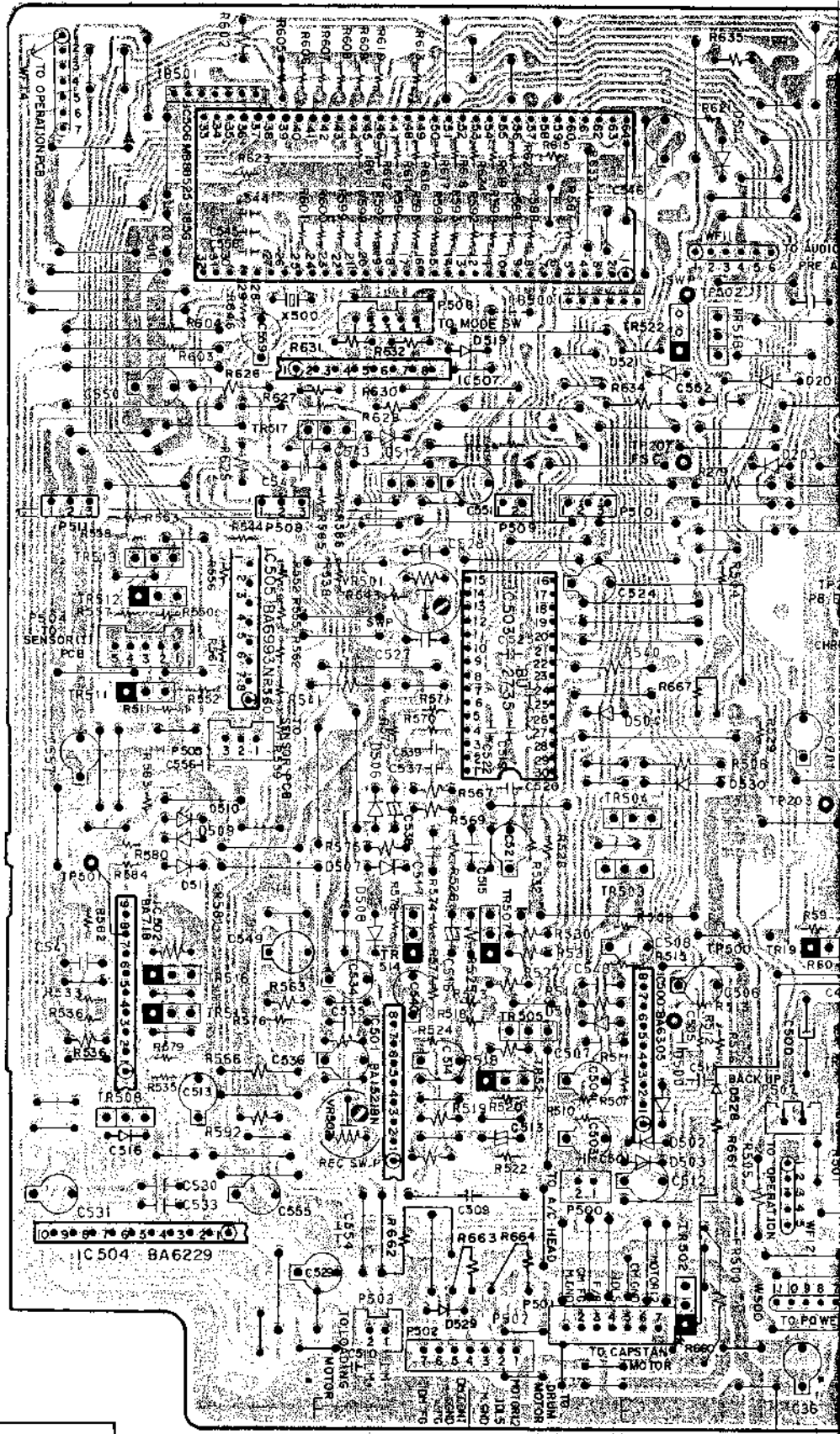


-B (POWER SUPPLY) LINE
 -Y. REC
 -Y. P. B.
 -CHROMA REC
 -CHROMA PB
 -DM PHASE
 -DM SPEED
 -CM PHASE
 -CM SPEED

SIGNAL LINE VS-33U/UM, VS-35U
MAIN
SCHEMATIC DIAGRAM
 NO. 5-3 870811A

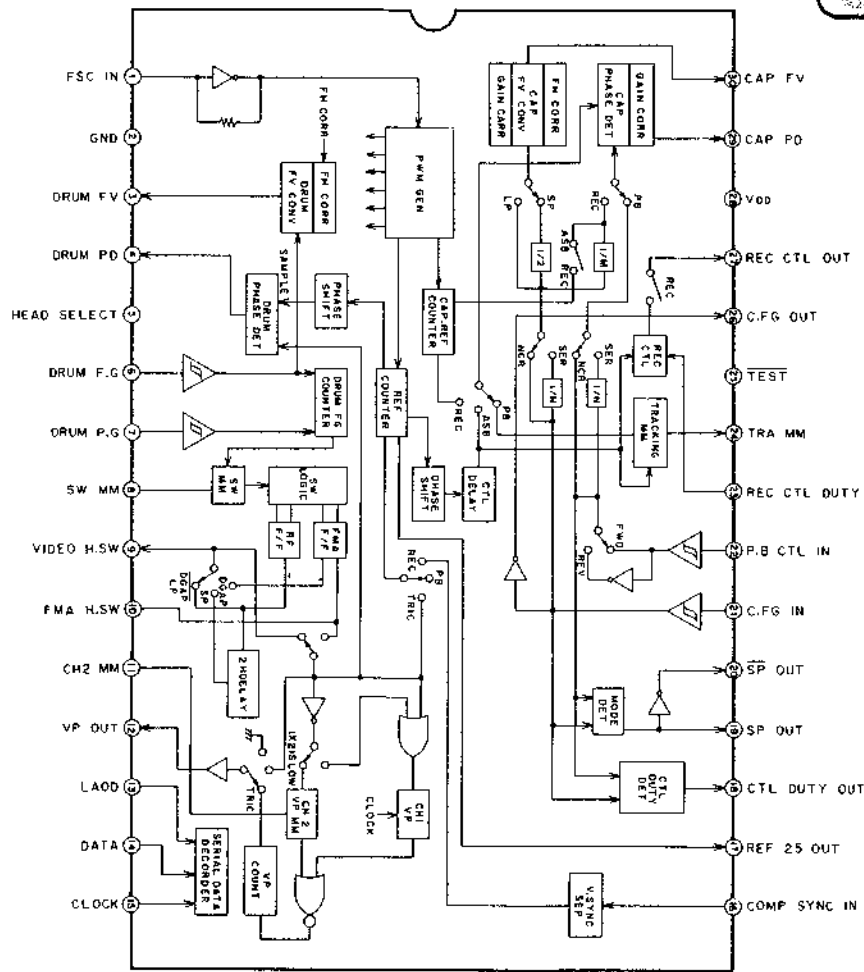
PRINCIPAL PARTS LOCATION

ICs	TRANSISTORS
IC1.....BC6	TR1.....B5
IC3.....BC6	TR2.....C5
IC200...B3,4	TR3.....B6
IC201...A3,4	TR4.....B6
IC202...D3	TR5.....B6
IC500...E5,6	TR6.....C6
IC501...F5,6	TR7.....C6
IC502...F5	TR8.....C6
IC503...E4	TR9.....A6
IC504...F6	TR10...C5
IC505...F4	TR11...C5
IC506...EF2,3	TR13...D5
IC506...EF2,3	TR16...C6
IC507...F3	TR17...C6
CONNECTORS,	TR18...D6
WIRES	TR19...D5
P500...E6	TR200...B4
P501...E6	TR201...B4
P502...EF6	TR202...B4
P503...F6	TR205...B3
P504...F4	TR206...D4
P505...F4	TR207...D4
P506...F3	TR208...D4
P507...D6	TR209...D2
P508...E4	TR210...D2
P509...E4	TR211...A3
P510...E4	TR212...A2
P511...F4	TR213...A4
WF10...D5	TR214...B4
WF11...E3	TR215...C3
WF12...D6	TR500...D6
WF13...CD6	TR501...D6
WF14...F2	TR502...E6
W16...D6	TR503...E5
	TR504...E5
	TR505...E5
	TR507...F4
	TR508...F6
	TR511...F4
	TR512...F4
	TR513...F4
	TR514...F5
	TR515...F5
	TR516...F5
	TR517...F3
	TR518...E3
	TR520...E5
	TR521...E5,6
	TR522...E3

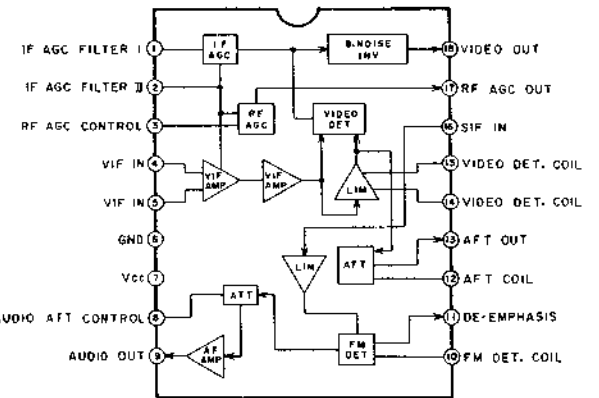


MAIN PCB VI075A 501A

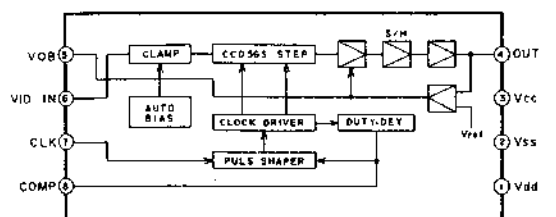
BU2734 (DIGITAL SERVO)

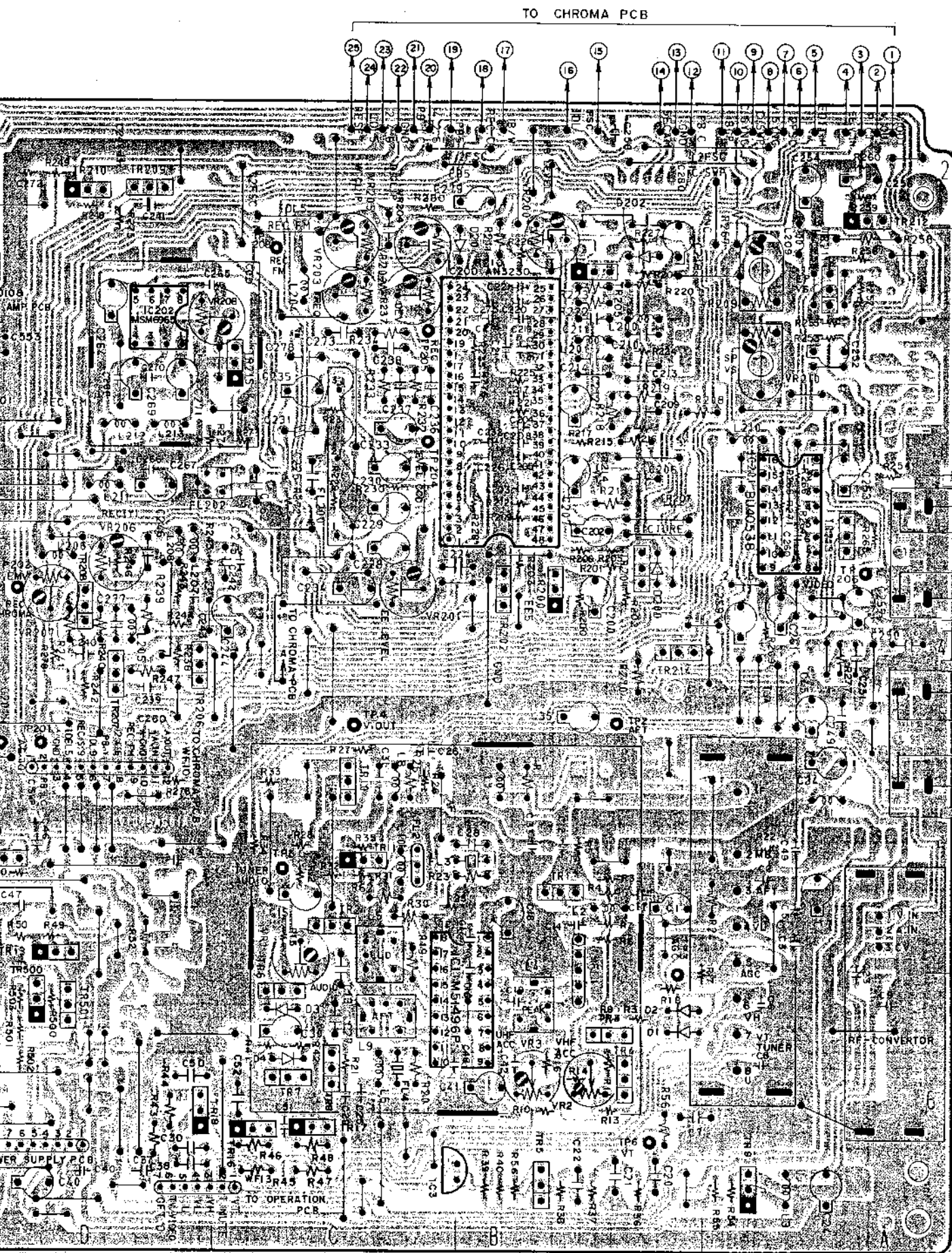


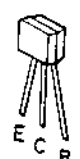
M51496P (VIF+SIF AMP IC)

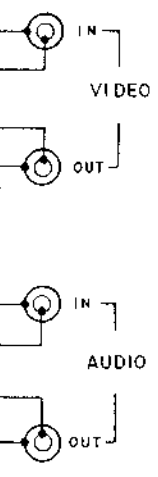


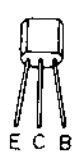
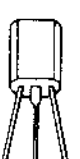
MSM6964-3RS (IH CCD DELAY LINE)







-  ECB
- 2SA1317
- 2SC1317
- 2SC2926
- 2SC3330
- DTA114TS
- DTA144ES
- DTA144TS
- DTC114ES
- DTC114YS
- DTC124ES
- DTC144ES

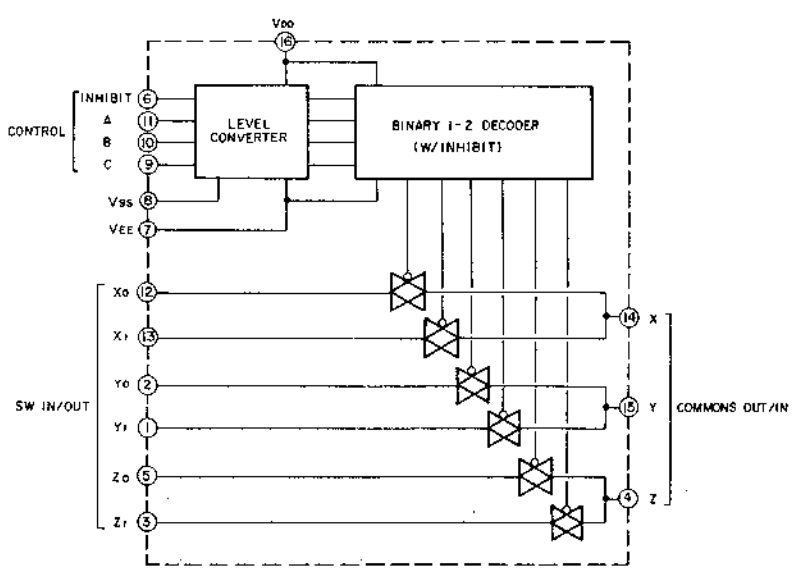


-  ECB
- 2SC1213
-  ECB
- 2SA1286

 = NPN TRANSISTOR
 = PNP TRANSISTOR

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.

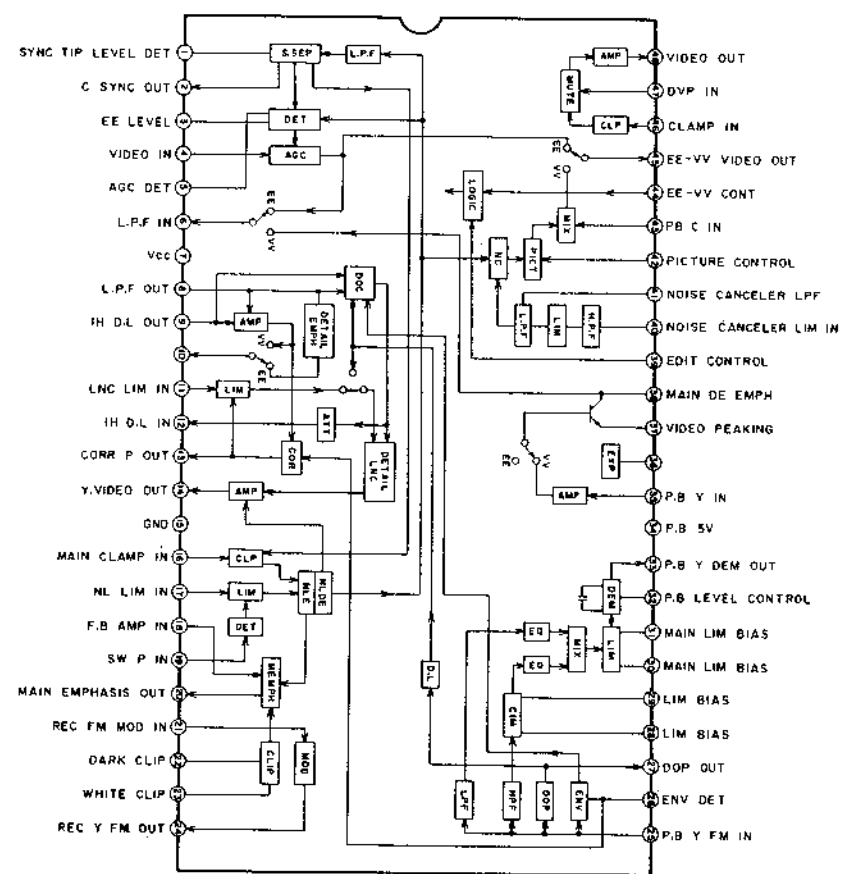
BU4053B (TRIPLE 2CH. MULTIPLEXER/DEMULTIPLEXER)

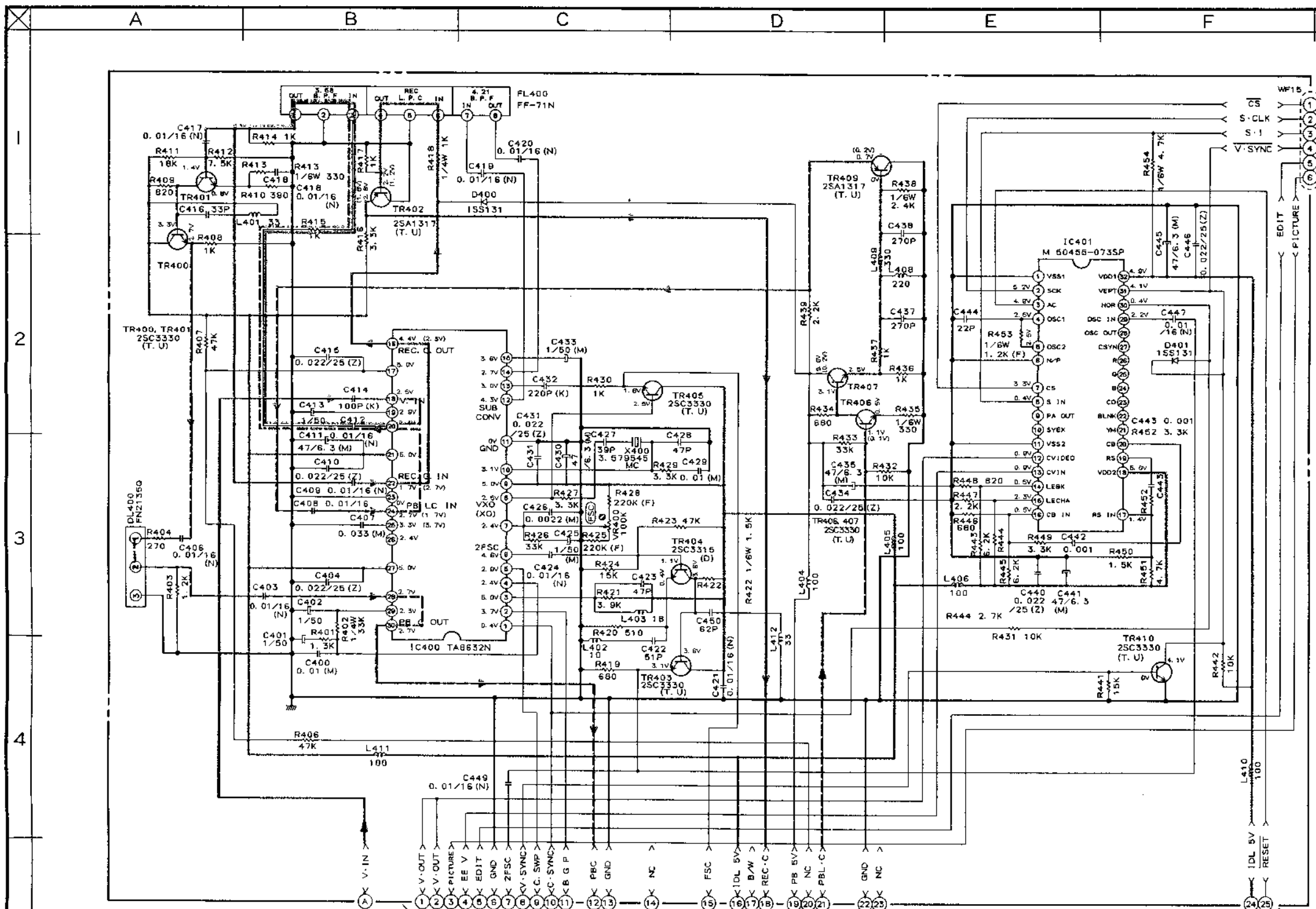


TRUTH TABLE

CONTROL DATE		"ON" CHANNEL				
INH	A	B	C	X	Y	Z
L	L	L	L	X ₀	Y ₀	Z ₀
L	L	L	H	X ₀	Y ₀	Z ₁
L	L	H	L	X ₀	Y ₁	Z ₀
L	L	H	H	X ₀	Y ₁	Z ₁
L	H	L	L	X ₁	Y ₀	Z ₀
L	H	L	H	X ₁	Y ₀	Z ₁
L	H	H	L	X ₁	Y ₁	Z ₀
L	H	H	H	X ₁	Y ₁	Z ₁
H	*	*	*	NONE	NONE	NONE

AN3230 (VIDEO Y SIGNAL PROCESSING IC)

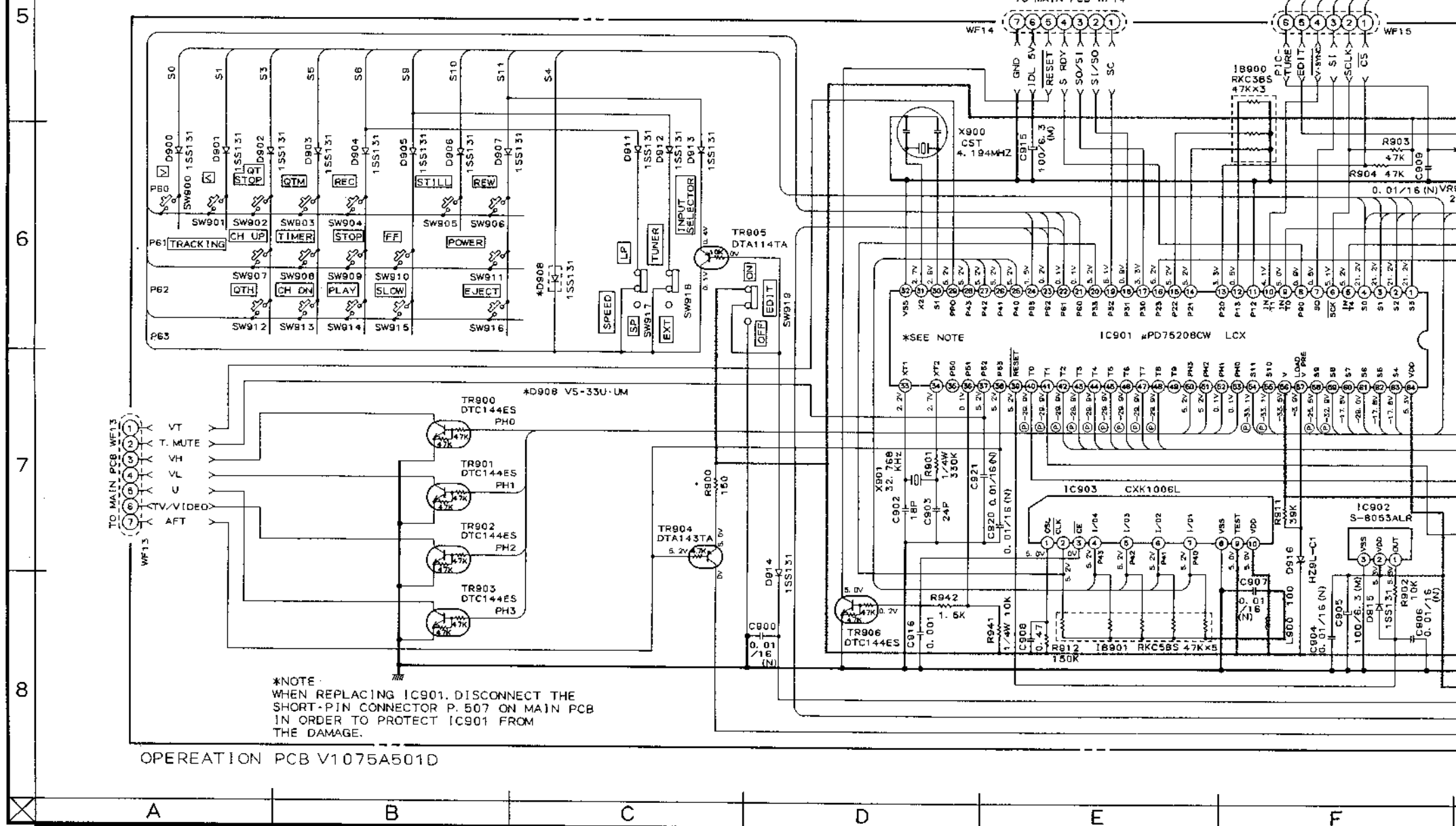




CHROMA PCB V1075A501B

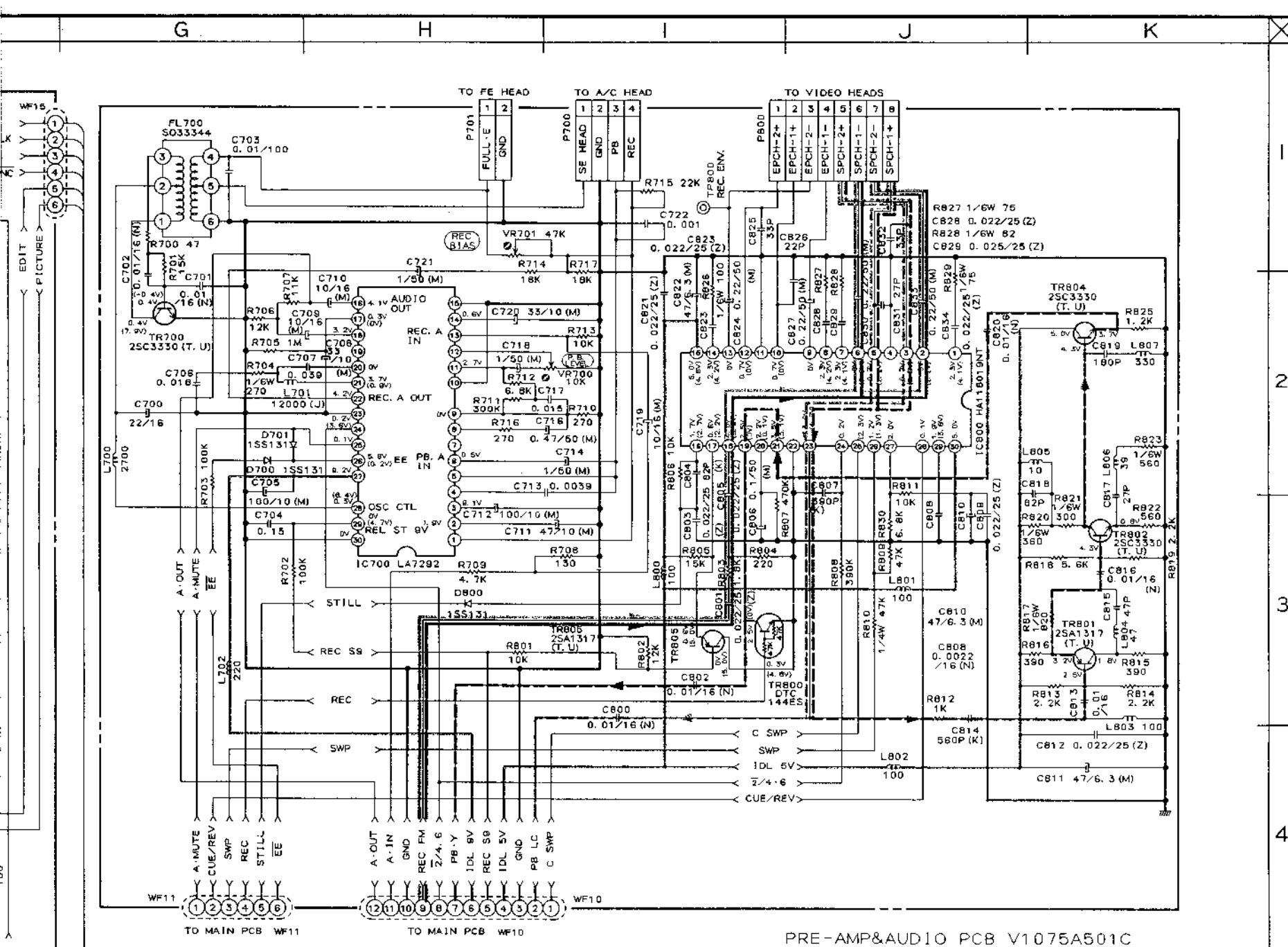
TO MAIN PCB

TO MAIN PCB WF14



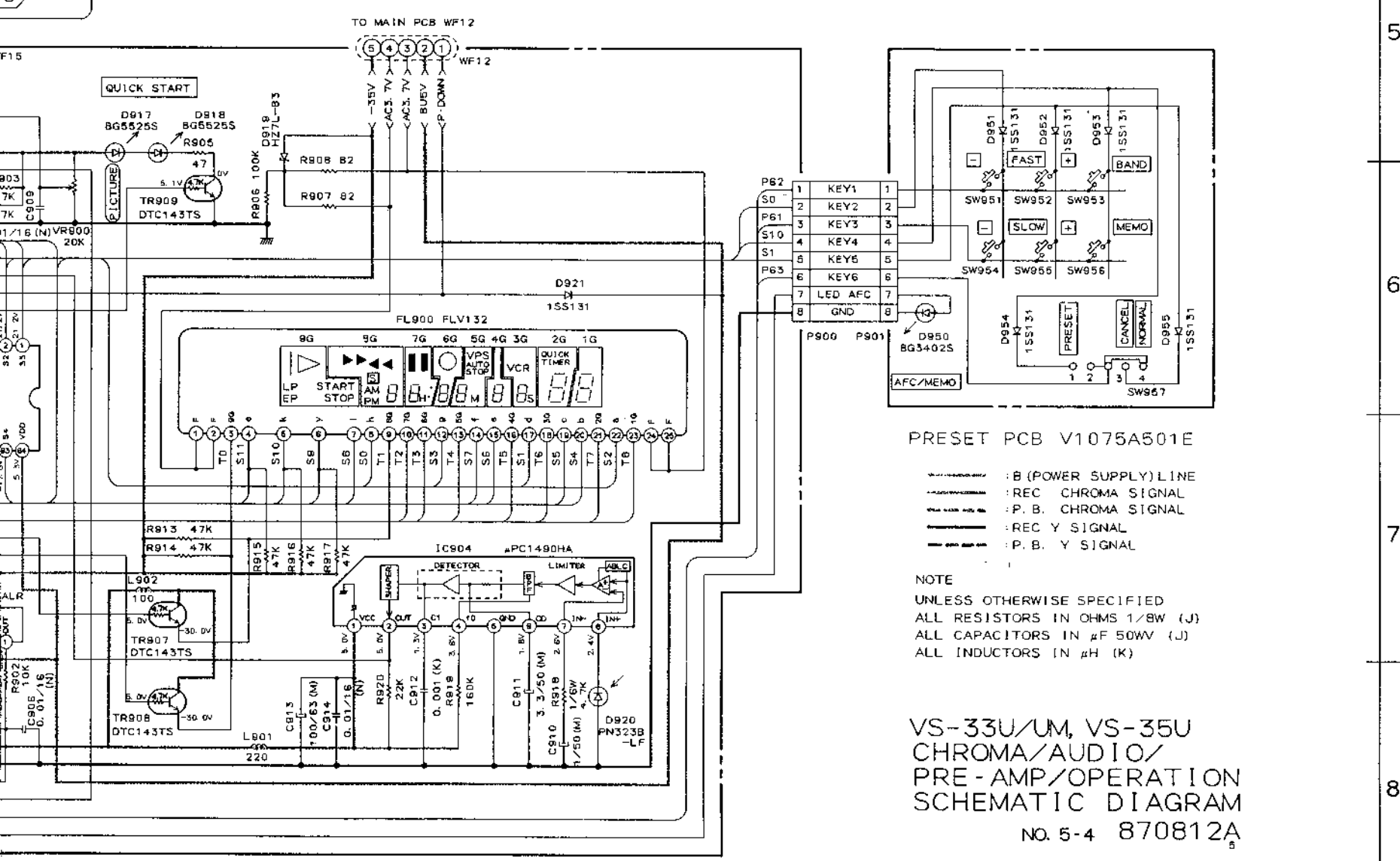
OPERATION PCB V1075A501D

*NOTE:
WHEN REPLACING IC901, DISCONNECT THE
SHORT-PIN CONNECTOR P. 507 ON MAIN PCB
IN ORDER TO PROTECT IC901 FROM
THE DAMAGE.



PRE-AMP & AUDIO PCB V1075A501C

INDICATED VOLTAGE MEASURED ON P. B. MODE
() : REC MODE

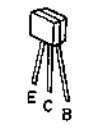


PRESET PCB V1075A501E

--- : B (POWER SUPPLY) LINE
 --- : REC CHROMA SIGNAL
 --- : P. B. CHROMA SIGNAL
 --- : REC Y SIGNAL
 --- : P. B. Y SIGNAL

NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/8W (J)
 ALL CAPACITORS IN μ F 50WV (J)
 ALL INDUCTORS IN μ H (K)

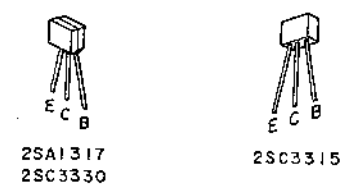
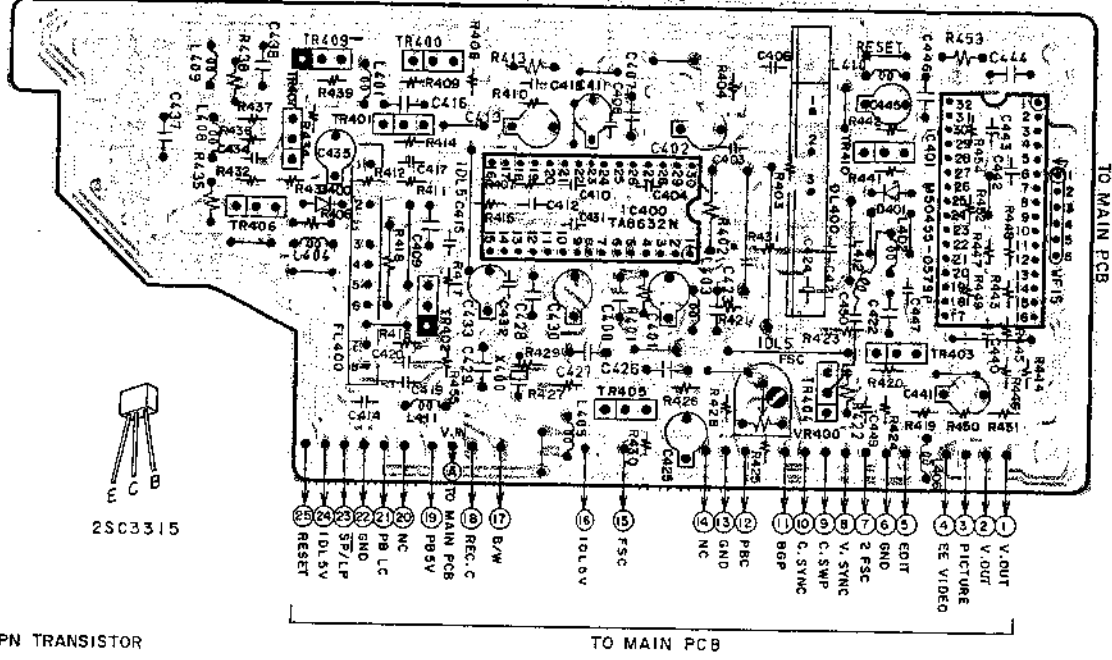
VS-33U/UM, VS-35U
 CHROMA/AUDIO/
 PRE-AMP/OPERATION
 SCHEMATIC DIAGRAM
 NO. 5-4 870812A



2SA1317
2SC3330
DTC144ES

••• = NPN TRANSISTOR
••• = PNP TRANSISTOR

CHROMA PCB V1075A501B

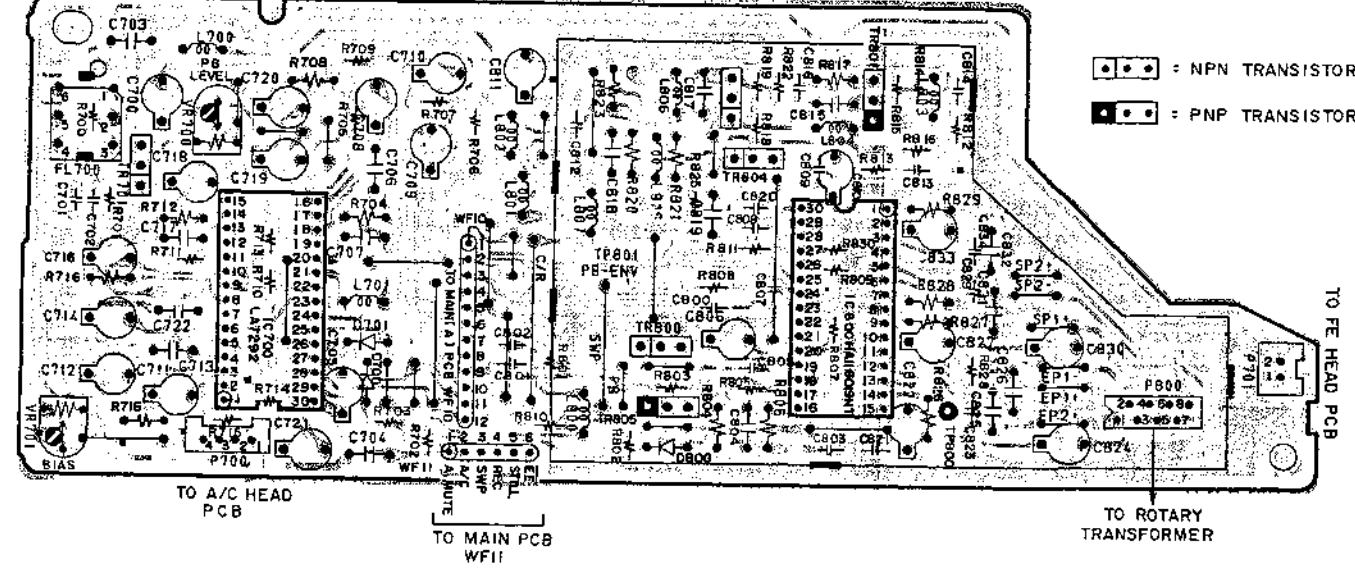


2SA1317
2SC3330

2SC3315

••• = NPN TRANSISTOR
••• = PNP TRANSISTOR

PRE AMP & AUDIO PCB V1075A501C

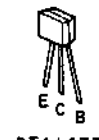
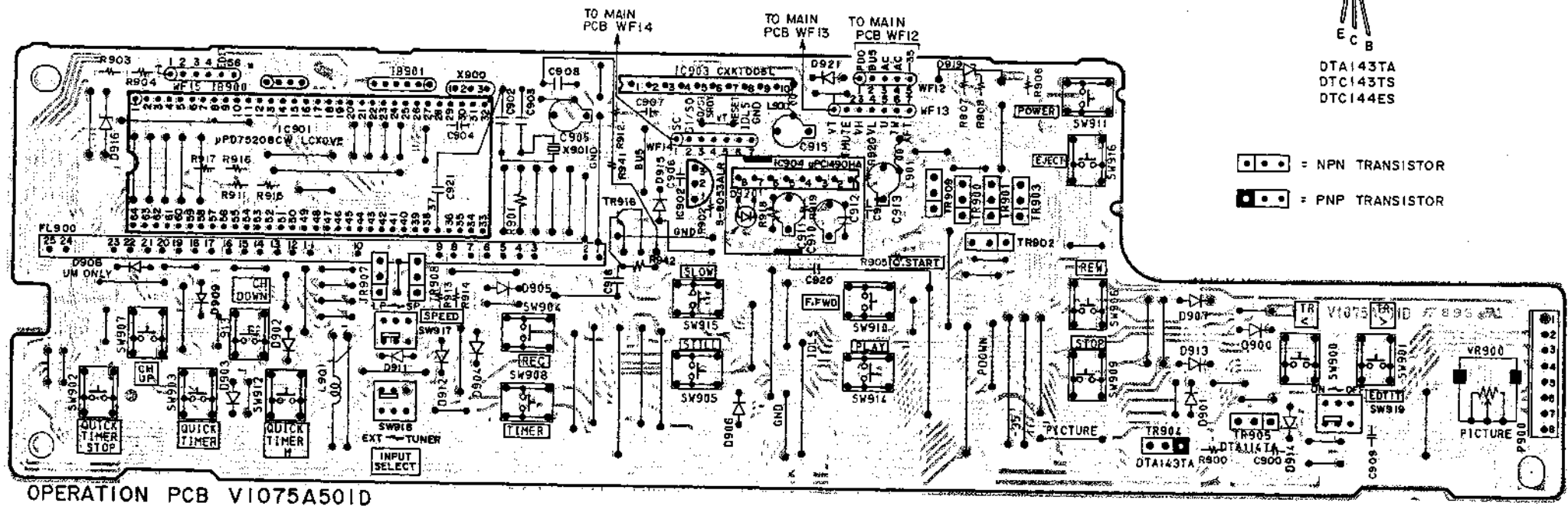


TO FE HEAD PCB

TO ROTARY TRANSFORMER

TO MAIN PCB WF11

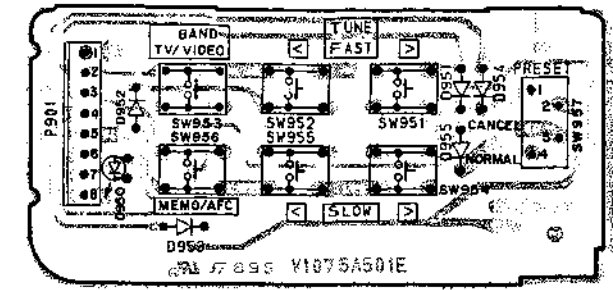
TO A/C HEAD PCB



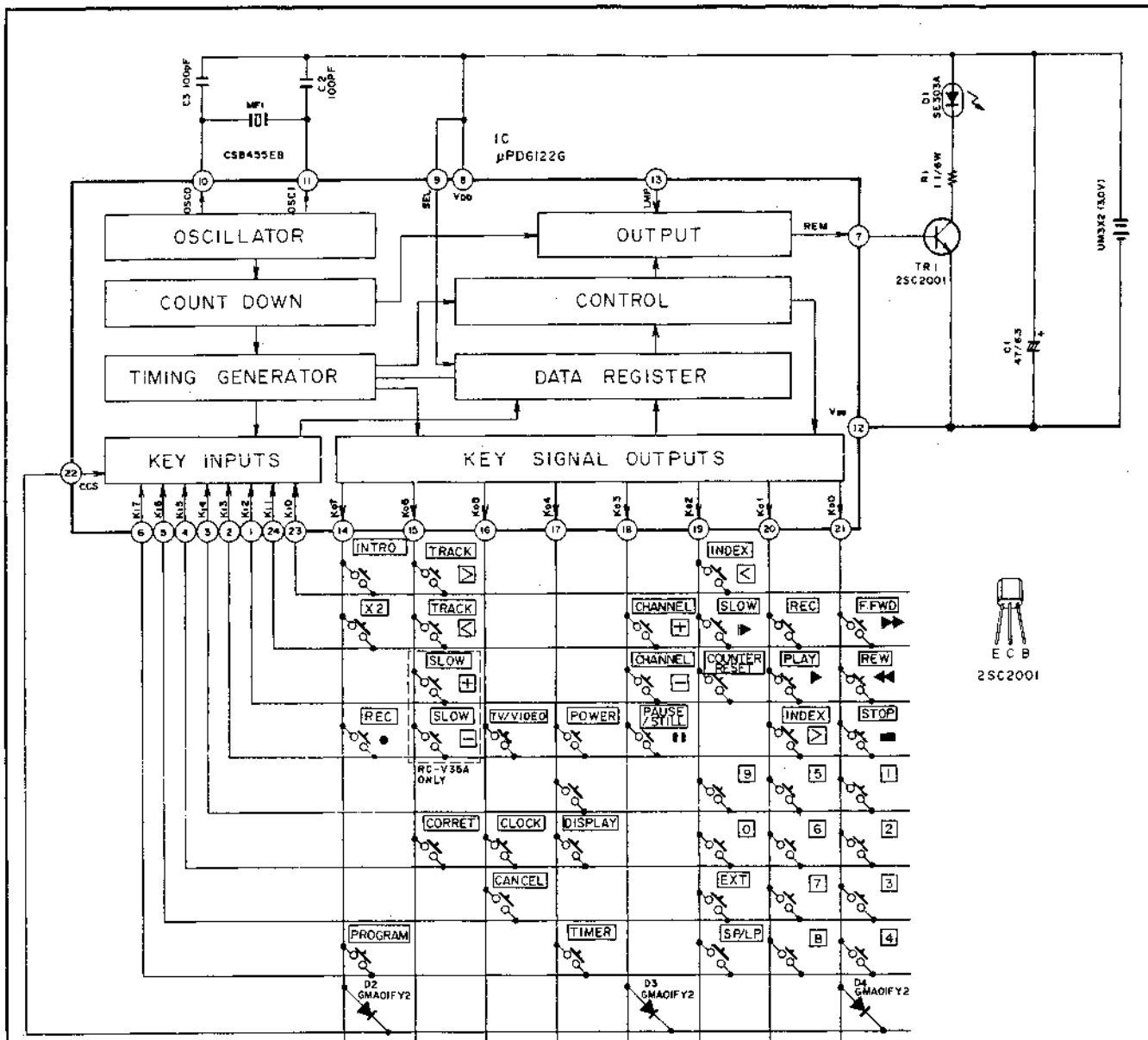
DTA143TA
DTC143TS
DTC144ES

••• = NPN TRANSISTOR
••• = PNP TRANSISTOR

OPERATION PCB V1075A501D

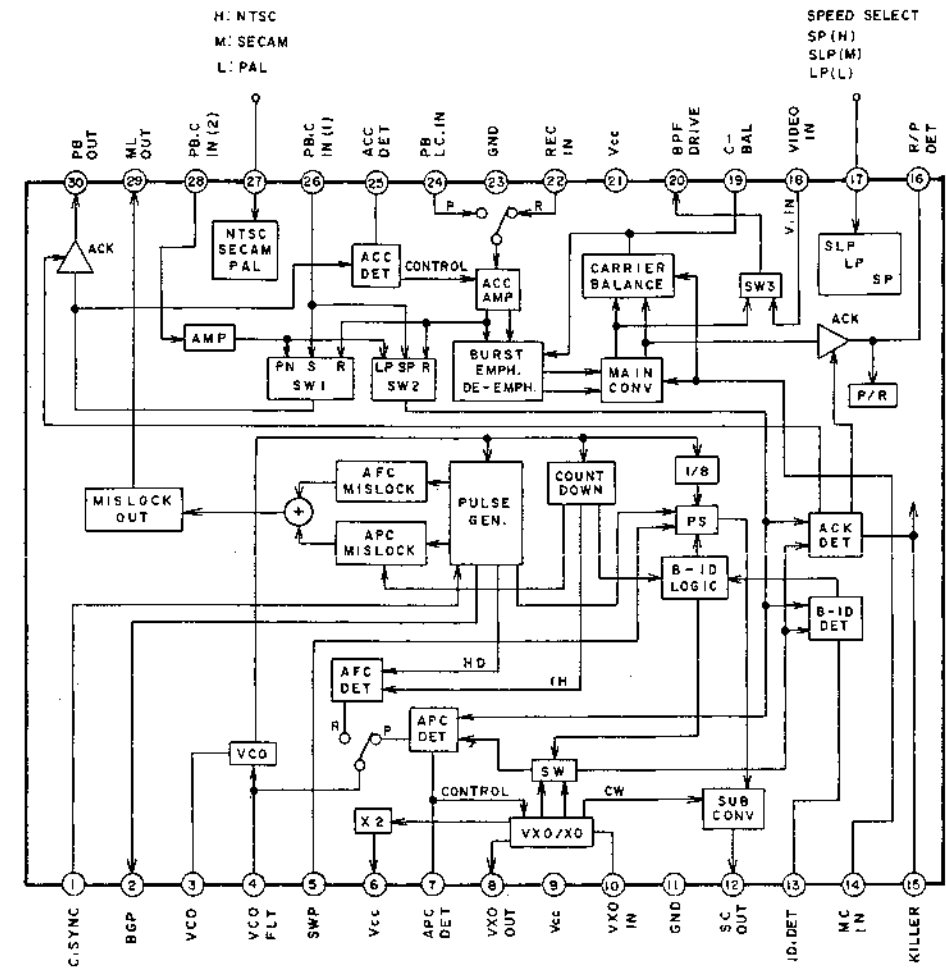


PRESET PCB V1075A501E

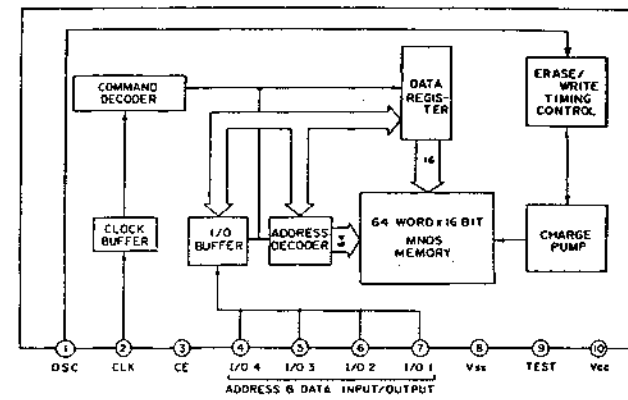


RC-V33A/35A
 REMOTE CONTROL UNIT
 SCHEMATIC DIAGRAM
 NO. 5-5 870813A (A3)

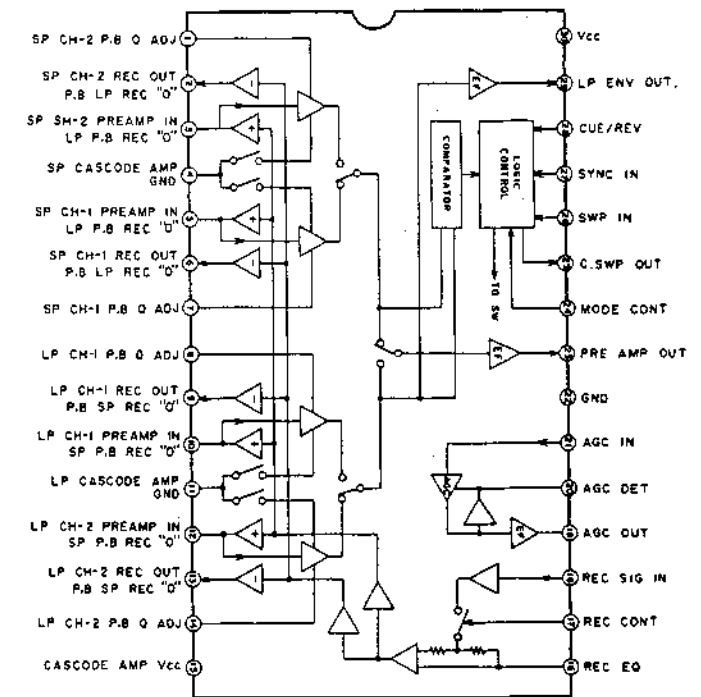
TA8632 (VIDEO C-SIGNAL PROCESSING)



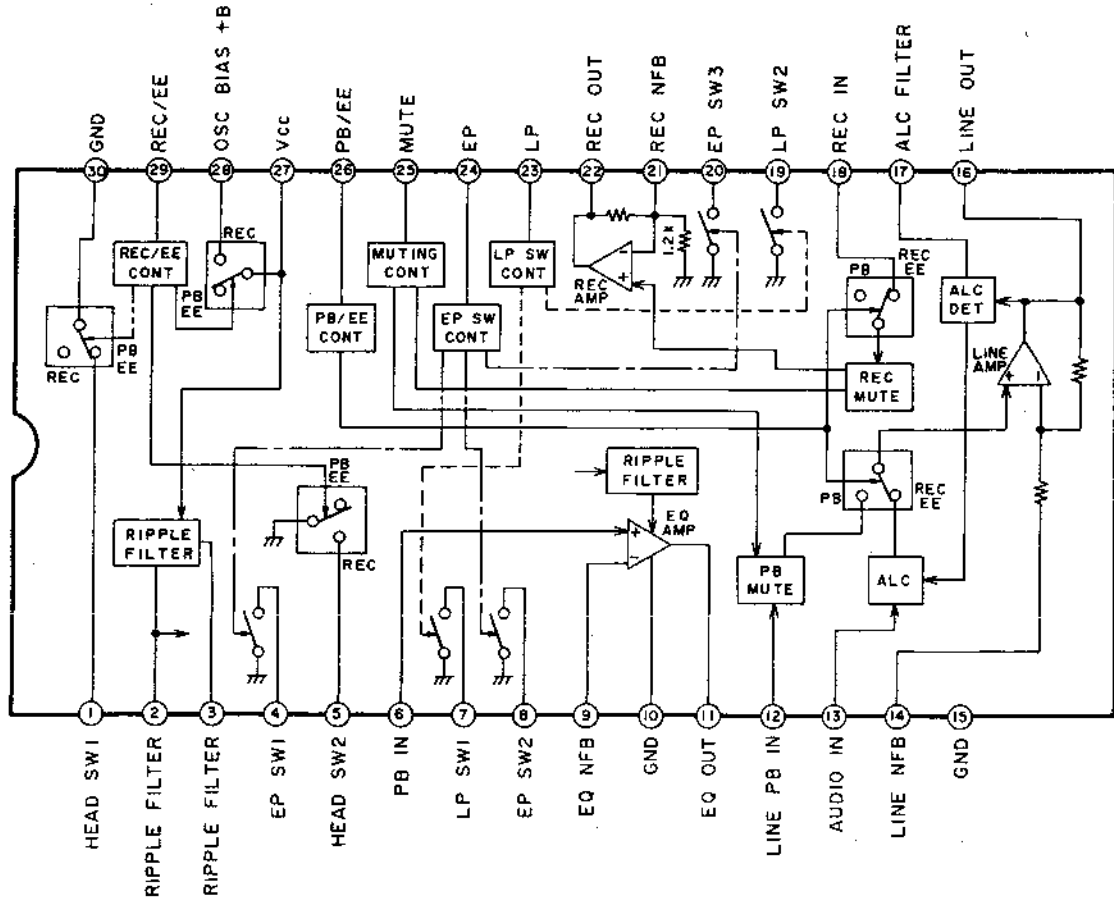
CXK1006 (NON VOLATILE RAM)



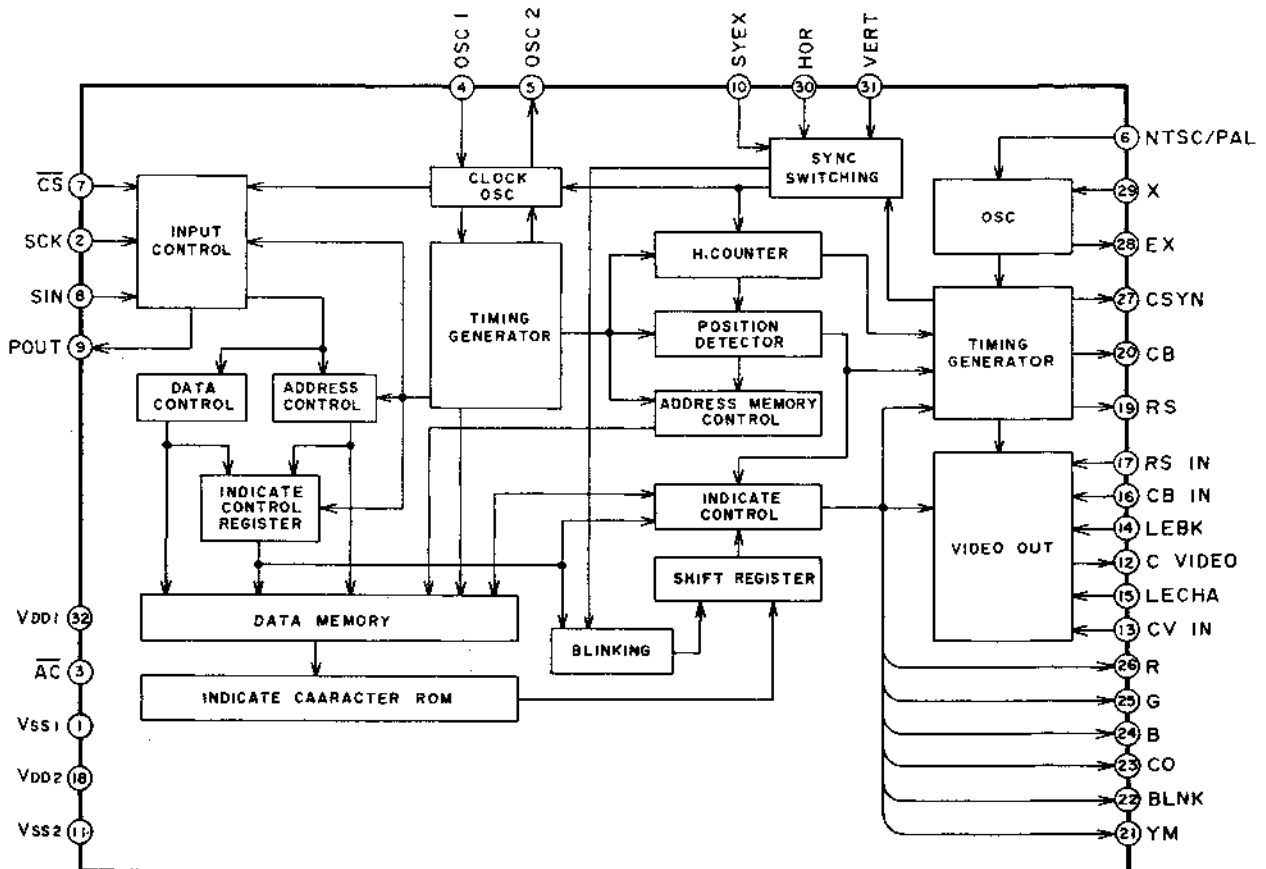
HA118019NT (PRE-AMP)



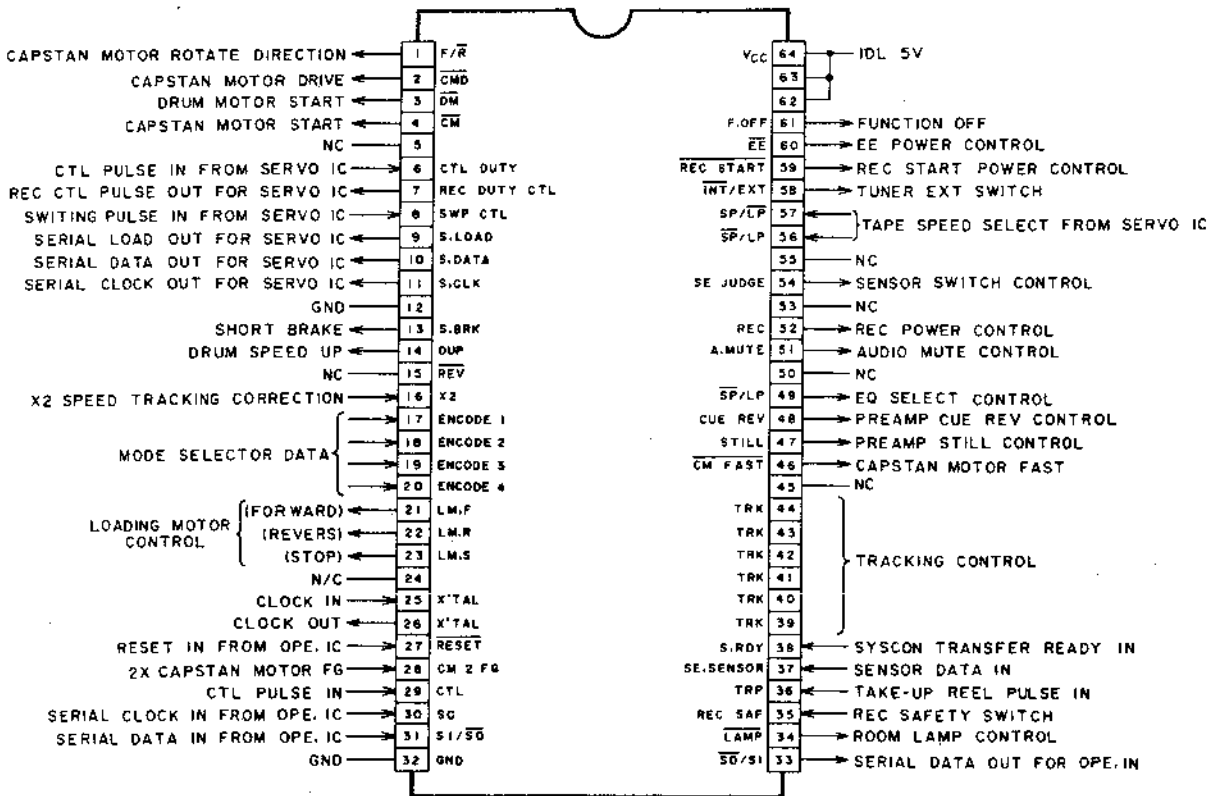
LA7292 (AUDIO SIGNAL REC/P.B AMPLIFIER)



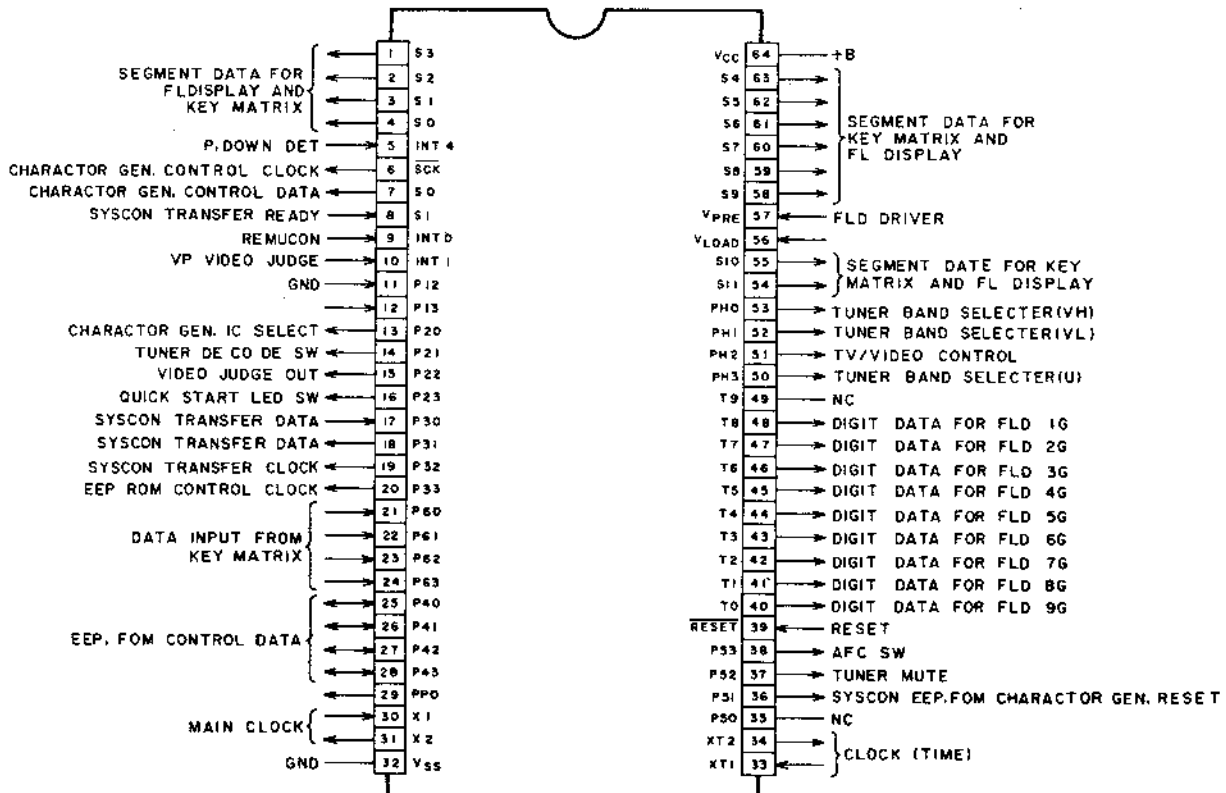
M50455-073SP (CHARACTOR GENERATOR)



MB88525-186G LCXSYN1 (SYSTEM CONTROL)



μPD75208 CW-LCXOPU (OPERATION)



VI. ELECTRICAL ADJUSTMENT

Precautionary items prior to adjustments

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

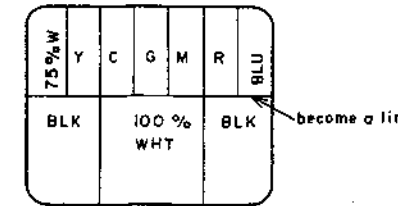
Required following Test tapes.

Test tape	Parts No.
TF-528BL	AT-751357
TF-540RFS	AT-751363
TF-542CBS	AT-751365
TF-543CBL	AT-751366

STEP	ADJUSTMENT ITEM	ADJ. part	Test point
1.	MODE and INPUT SIGNAL/TEST TAPE		
2.	TEST POINT and ADJ. part		
3.	RESULT & REMARKS		

12 SP and LP STILL VERTICAL STABILITY

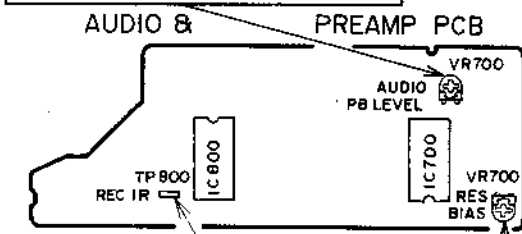
1. "PB" - "PAUSE/STILL" (Test tape TF-542CBS)
2. TV screen & VR210
3. In the PB/STILL mode, Observe the TV screen and adjust VR210 until no picture vibration.
4. Switch the Test tape to TF-543CBL.
5. In the same manner as above, adjust VR209 until no picture vibration.



3 AUDIO PB LEVEL

1. "PB" Test Tape TF-528BL
2. Audio Out & VR700
3. Connect AC Voltmeter to Audio out.

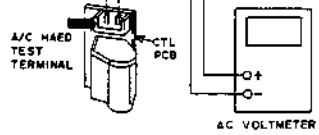
- -4.0 ± 0.5 dBs



4 AUDIO REC BIAS

1. "REC" (no signal input)
2. Test terminal on the A/C Head & VR701.
3. Connect AC Voltmeter to test terminal.

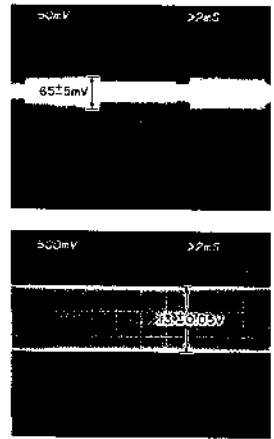
- 3.4 ± 0.1 mV



9 VIDEO REC CURRENT

1. "REC" NTSC color bar signal.
2. TP800 (REC I.R.) & VR207 (CHROMA), VR206 (Y).
3. Connect Oscilloscope to TP800 (REC I.R.)

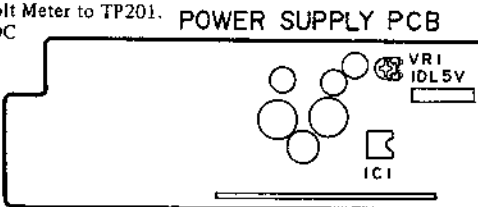
- Turn the VR206 (Y) fully counterclockwise.
- Adjust VR207 (CHROMA) so that chroma REC current becomes 65 ± 5 mVp-p.
- Adjust VR206 (Y) so that Y REC current becomes 1.3 ± 0.05 Vp-p.



1 IDL 5V

1. STOP MODE
2. TP201 & VR1
3. Connect DC Volt Meter to TP201.

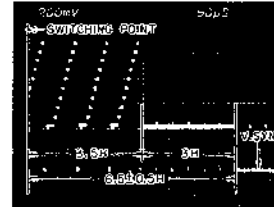
- 5 ± 0.05 V DC



13 REC SWITCHING POINT

1. "REC" NTSC color bar signal.
2. TP502 (SWP), TP206 (V-OUT) & VR502
3. Connect Oscilloscope to TP502 (SWP) for trigger signal and connect to TP206 (V-OUT).

- Adjust VR502 so that switching point becomes 6.5 ± 0.5 H from the V-SYNC.



5 VIDEO E-E LEVEL

1. "E-E" (Stop Mode) input NTSC color bar signal.
2. TP206 (V-OUT) & VR201
3. Connect Oscilloscope to TP206.

- 1.0 ± 0.05 Vp-p



6 FSC

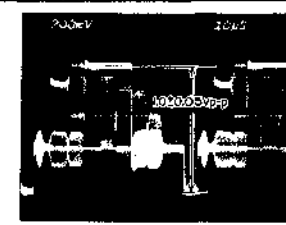
1. "E-E" (Stop Mode) input NTSC color bar signal.
2. TP207 (FSC) & VR400
3. Connect FRQ counter to TP207 (FSC)

- 3.579545 MHz = 10 Hz

10 EP REC/PB VIDEO LEVEL

1. "REC" - "PB" NTSC color bar signal.
2. TP206 (V-OUT) & VR200 (PB LEVEL)
3. Connect Oscilloscope to TP206 (V-OUT)

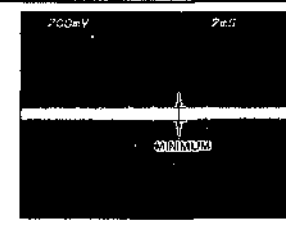
- 1.0 ± 0.05 Vp-p
- Set the REC speed to EP.



11 CCD

1. "PB" Test tape TF-542CBS
2. TP204 (CCD) & VR208 (CCD)
3. Connect Oscilloscope to TP204 (CCD)

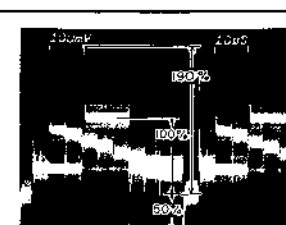
- Adjust VR208 so that CCD level becomes minimum.



8 WHITE & DARK CLIP

1. "REC" NTSC color bar signal.
2. TP205 (W/D CLIP) & VR205 (W. CLIP), VR204 (D. CLIP)
3. Connect Oscilloscope to TP205 (W/D CLIP)

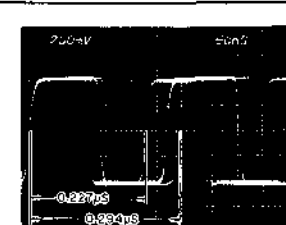
- VR205 (WHITE CLIP) . . . 190%
- VR204 (DARK CLIP) . . . 50%



7 CARRIER SET & DEVIATION

1. "REC" NTSC color bar signal.
2. TP208 (REC FM) & VR203 (CARRIER), VR202 (DEVIATION)
3. Connect Oscilloscope to TP208 (REC FM)

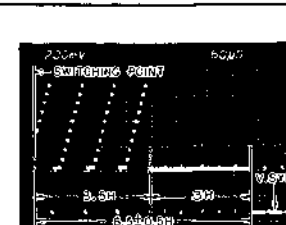
- VR203 (CARRIER) . . . 0.294μ s (3.4MHz)
- VR202 (DEVIATION) . . . 0.227μ s (4.4MHz)



2 PB SWITCHING POINT

1. "PB" Test Tape TF-540RFS
2. TP502 (SWP), TP206 (V-OUT) & VR501
3. Connect Oscilloscope to TP502 (SWP) for trigger signal and connect to TP206 (V-OUT).

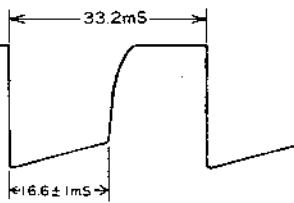
- Adjust VR501 so that switching point becomes 6.5 ± 0.5 H from the V-SYNC.



14 TRACKING PRESET

Tracking preset data can be adjusted as following.

1. Plug in the AC Power Cord with the Power, Eject and REW buttons depressed steadily at the same time.
2. In an SP play mode. Tracking data 0 to 3F which will be displayed in the FLD CH. No. window may be set to 1F or 20 with the Tracking buttons. At this time, Tracking MM waveform, IC 503 pin 24, should be within 16.6 ± 1 ms.
3. Depress the Band selector button to memorize the Tracking preset data.
4. Confirm that the maximum Envelope TP202 on the Main P.C.B. should be obtained on Rec/P.B mode and Tracking marker "T" is in the center on the monitor screen.



VII. 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.
 - Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
2-1x	BH-T2023A320A	HEAD BASE BLOCK
2-2	HP-H2206A010A	HEAD R/P PR4-8FU C
2-3	ZS-477876	PAN20x03STL CMT
2-4	ZS-536488	BID20x08STL CMT
2-5	ZG-402895	SP CS ANGLE ADJUST

- SP (Service Parts) Classification
- A small "x" indicates that this part is not shown in the Photo or Illustration.
- This number corresponds with the individual parts index number in that figure.
- This number corresponds with the Figure Number.

b) PC Board

6. MAIN PC BOARD

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

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

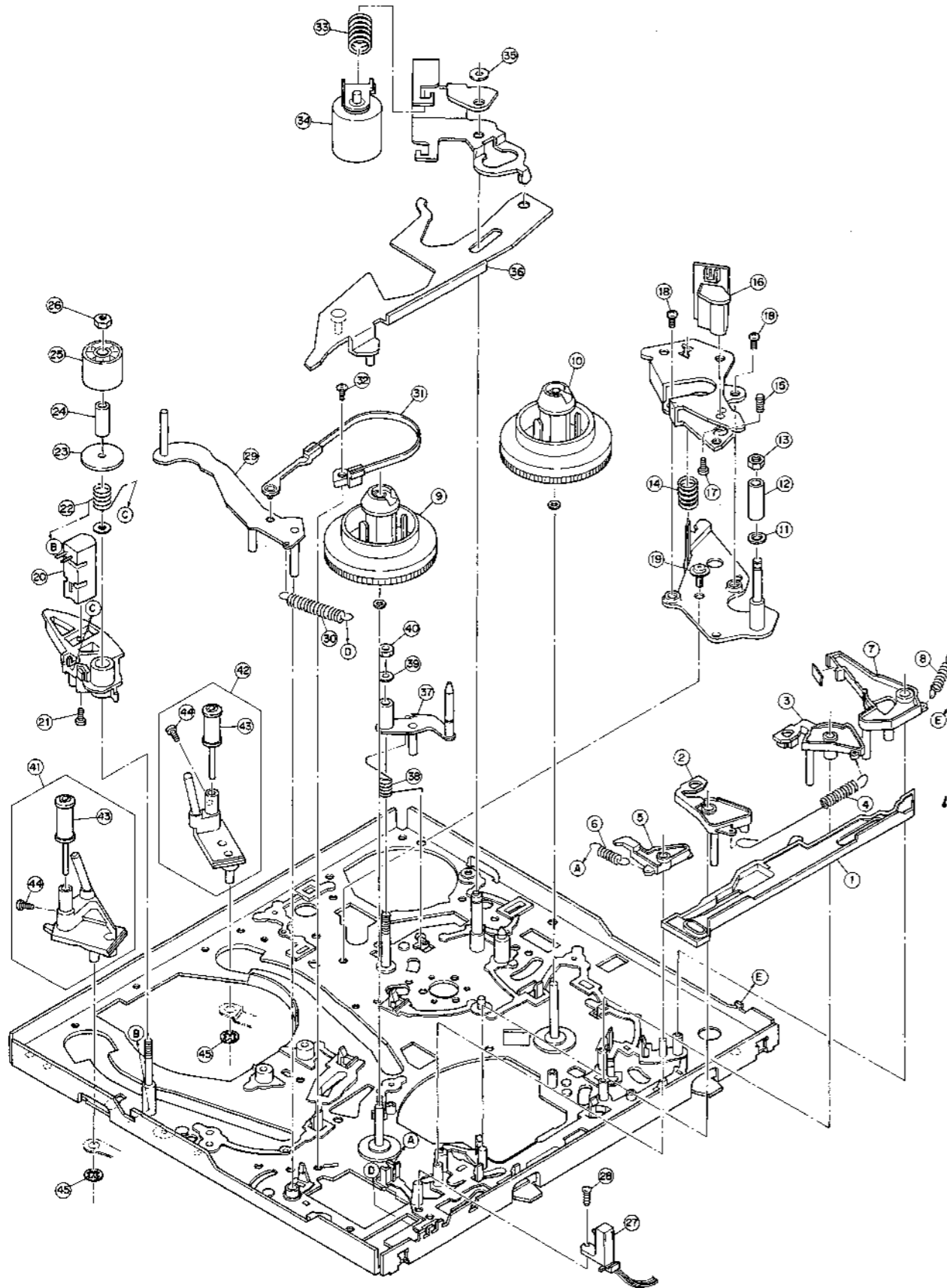
△ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

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	Ref. No.	Part No.	Description
1	BL-V1075A130A	PINCH ROLLER BLK VS-35EA	57	EI-380318	IC BA6305
2	BM-373098	MOTOR DVX-67A2R2 [CAPSTAN MOTOR]	58	*EI-376794	IC BA6993 [UM[U]]
3	BM-367631	MOTOR PART [LOADING MOTOR][M901]	59	EI-373981	IC BA6993N
4	BM-M3225A020A	PC MOTOR BLK SM-250 [DRUM MOTOR]	60	EI-354095	IC BA718
5	BR-367618	DISK(S)PART	61	EI-373978	IC BU2734 NTSC CUSTOM
6	BR-367619	DISK(I)PART	62	EI-373954	IC CXK1006L
7	*BT-373893	TRANS POW V1077U [U(A)]U[C]	63	EI-367909	IC HA118019NT
8	*BT-373994	TRANS POW V1077UM [UM[U]]	64	*EI-367571	IC LA6358T
9	BV-V1075A410A	LOWER DRUM BLK VS-35EA	65	EI-373946	IC LA7292
10	BV-373934	RF CONVERTER YAA21-0279 US	66	EI-368182	IC MB88525-186G LCXSYN1 CUSTOM
11	BV-V1075A070A	SLOADING LEADER BLK VS-35EA	67	EI-373965	IC MSM8984
12	BV-V1075A080A	T.U. LOADING LEADER BLK VS-35EA	68	EI-367904	IC M50455-057SP CUSTOM
13	BV-V1075A205A	TW EJECTOR (2) BLK VS-35EA/TW [INCL. 1 TO 34]	69	EI-368809	IC M51496P
14	BV-V1075A420A	UPPER DRUM BLK VS-35U	70	EI-373955	IC S8053ALR
15	EC-368823	C DBL LAYER EEC55R5H 47325.5DC	71	EI-373023	IC TA8632N
16	ED-368826	D LED BG3402S GREEN	72	EI-200673	IC TC4053BP
17	ED-368424	D LED BG5525S GREEN	73	EI-367271	IC UPC1490HA
18	ED-373101	D LED LN59 INFRARED [SENSOR PCB D1]	74	EI-337530	IC UPC574J
19	ED-376111	D LED SE303AC INFRARED	75	EI-376112	IC UPD8122G
20	ED-360409	D PHOTO PN323B	76	EI-373952	IC UPD7520BCW-121 LCXOPU2 CUSTOM
21	*ED-379298	D SILICON BA20B	77	EI-347991	OSC CE CSA6.00MS 6MHZ
22	ED-376838	D SILICON DSA12G UB1 600/1.2A [UM[U]]	78	EI-376113	OSC CE CSB455EB
23	ED-371512	D SILICON ERA22-04Y F05 [UM[U]]	79	EI-373957	OSC CE CST4.19MG 4.194 MHZ
24	ED-344280	D SILICON H GMA-01-FY2 F05	80	EI-368825	OSC X'TAL MX-36T 32.768KHZ
25	ED-307572	D SILICON H 1S131	81	EI-318384	OSC X'TAL NR-18 3.579545MHZ
26	ED-624903	D SILICON H 1S2473	82	EM-373956	IND FL FLV132
27	*ED-367202	D SILICON S5566B F12 [UM[U]]	83	EO-375471	COIL OSC 1 S033344
28	*ED-379041	D SILICON S5566B 100/1.0A	84	*EO-376837	RELAY POW VB-100TBU-5 2TR 100V [UM[U]]
29	*ED-367693	D SILICON S5566G(LC-7)F12	85	*ER-318400	R CB H S10 FS RDS 1/4W 680J
30	ED-376598	D ZENER H HZS36J B3 F05	86	*ER-378414	R OMF H S12 FS 1W R47J
31	ED-365699	D ZENER H HZS56J B1 F05	87	*ER-356573	R SD ANTI-STATIC 1/2W 225K [U(A)]U[C]
32	ED-346525	D ZENER H HZ6L A3	88	ES-373099	SW LEAF MTS10110MPC1 [REC SAFTY SW][SW1]
33	ED-351419	D ZENER H HZ7L B3	89	ES-373100	SW MODE SELECTOR D2ZQ-S2 [MODE SELECTOR]
34	ED-346541	D ZENER H HZ9L B2	90	ES-375737	SW SLIDE ESD1111351 2-01-03N [PRE-SET]
35	ED-346543	D ZENER H HZ9L C1	91	ES-375736	SW SLIDE ESD1112251 2-02-02N [SPEED]
36	EE-373928	TV TUNER TEMH1-023A US	92	ES-349474	SW TACT SKHAM004A
37	*EF-601301	FUSE SEMKO T 250V 2.00A [UM[U]]	93	ET-361463	DETECTOR ON2170 Q,R [SENSOR PCB PH1]
38	*EF-258344	FUSE SEMKO T 250V 800MA [UM[U]]	94	ET-363953	TR DTA114TS
39	*EF-308956	FUSE TSC 125V 2.50A [U(A)]U[C]	95	ET-375983	TR DTA124TS
40	*EF-309391	FUSE TSC 125V 800MA [U(A)]U[C]	96	ET-368836	TR DTA143TA
41	EH-368109	COMP R RKC3BS 473J	97	ET-354415	TR DTA144ES
42	EH-374010	COMP R RKC5BS 473J	98	ET-373985	TR DTA144TS
43	EH-366605	COMP R RKC5BS103J	99	ET-359897	TR DTC114ES
44	EH-374012	COMP R RKC8BS 103J	100	ET-354365	TR DTC114YS
45	EH-370413	DL ADL-FN2135Q-B03	101	ET-354371	TR DTC124ES
46	EH-373922	FILTER CE CDA4.5ME6A	102	ET-375986	TR DTC124TS
47	EH-370811	FILTER CE SAF45MB70Z	103	ET-354364	TR DTC143TS
48	EH-370812	FILTER CE SFE4.5MB	104	ET-354414	TR DTC144ES
49	EH-363276	FILTER CE TPS4.5MB2	105	ET-370310	TR DTC144TS
50	EH-370615	FILTER LC FF-71N	106	ET-361490	TR PHOTO PN268 R,S
51	EH-373145	FILTER LC LP LF-71N-02 5P	107	*ET-364093	TR 2SA1283 E,F F05
52	EH-368896	FILTER LC MYV-24L	108	ET-356224	TR 2SA1286 G,H,J F05
53	EI-373964	IC AN3230	109	*ET-353899	TR 2SA1317 S,T,U
54	EI-373980	IC BA15218N	110	ET-321644	TR 2SC1213 C
55	EI-337825	IC BA236	111	ET-302502	TR 2SC2001 K
56	EI-353421	IC BA6229	112	ET-375777	TR 2SC2928S P,Q
			113	*ET-355669	TR 2SC3246 G,H,J F05
			114	*ET-376818	TR 2SC3247 H,J,K
			115	ET-368084	TR 2SC3315 D
			116	ET-360067	TR 2SC3330 T,U F05
			117	ET-376663	TR 2SC3868 [UM[U]]
			118	*ET-366677	TR 2SD1781 E,F
			119	EV-373958	VR ROTARY RK09K11 30 B203 [PICTURE]
			120	HC-374197	HEAD COMBO HVMLA 10135 [AUDIO/CONTROL HEAD]
			121	HE-361456	HEAD E HVFMD0005B [FULL ERASE HEAD]
			122	MB-373080	BELT IDLER

MECHA BLOCK (1)



3. MECHA BLOCK (1)

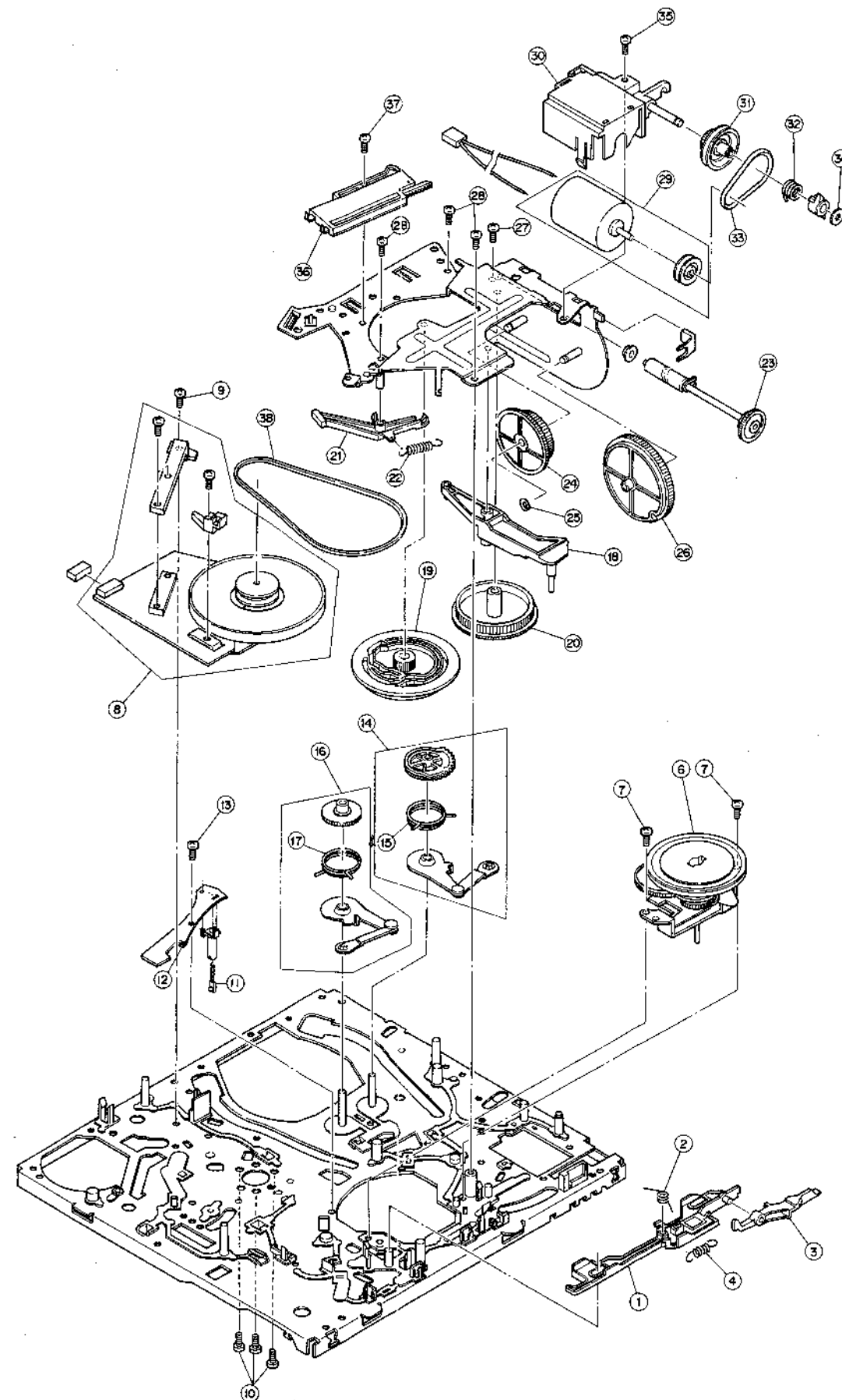
Ref. No.	Part No.	Description
1	MZ-373079	SLIDER BRAKE
2	ML-367614	ARM MAIN BRAKE(S)PART
3	ML-367616	ARM MAIN BRAKE(T)PART
4	ZG-373548	SP PULL MAIN BRAKE
5	ML-373075	ARM LOADING BRAKE
6	ZG-373534	SP PULL LOAD BRAKE
7	ML-367617	ARM REVIEW BRAKE PART
8	ZG-373535	SP PULL REVW BRAKE
9	BR-367618	DISK(S)PART
10	BR-367619	DISK(T)PART
11	MS-373095	GUIDE TAPE LCX
12	MS-372186	GUIDE TAPE (6)
13	ZW-516993	N30STL CMT 1
14	ZG-500792	SP PUSH A/C
15	ZG-373900	6SET30X080SCM PKR CP
16	HC-374197	HEAD COMBO HVMLA10135 [AUDIO/CONTROL HEAD]
17	ZS-373899	PAN20X2.5STL BDY PS1
18	ZS-321298	BID30X08STL CMT
19	ZS-373896	DT BID30X08STL CMT PW080
20	HE-381456	HEAD E HVFMD0005B [FULL ERASE HEAD]
21	ZS-464703	BID20X04STL CMT
22	ZG-374022	SP TORSION ARM FE
23	ZW-373088	FLANGE Z
24	ZW-373089	SPACER
25	MR-373087	ROLLER Z
26	ZW-350839	N30 NYLON
27	ES-373099	SW LEAF MTS10110MPC1 [REC SAFTY SW][SW1]
28	ZS-364545	DT BID30X08STL CMT
29	BL-367620-A	ARM TENSION PART
30	ZG-373539	SP PULL TENSION
31	ML-500881	LEVER TENSION BAND PART
32	ZS-373532	DT BID30X08STL CMT C080
33	ZG-500794	SP PUSH PINCH ROLLER
34	BL-V1075A130A	PINCH ROLLER BLK VS-35EA
35	ZW-373898	SLIT W31X070X050PSL
36	BL-500879T	PLATE P SLIDER PART (TW)
37	BL-368475	ARM REVIEW GUIDE PART
38	ZG-373530	SP TORSION REVIEW ARM
39	ZW-324417	PW31X060X050PSL
40	ZW-350839	N30 NYLON
41	BV-V1075A070A	SLOADING LEADER BLK VS-35EA
42	BV-V1075A080A	T.U LOADING LEADER BLK VS-35EA
43	VT-367622	GUIDE ROLLER PART
44	ZS-201464	PAN20X03BRS N13
45	ZW-332843	RETAINING RING GRIP 380STL ACP

NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.

4. MECHA BLOCK (2)

MECHA BLOCK (2)

Ref. No.	Part No.	Description
1	ML-373038	SLIDER FR
2	ZG-373894	SP TORSION SLIDER
3	ML-373036	LEVER F/R HOOK
4	ZG-373536	SP PULL HOOK
5	ZW-324417	PW31X060X050PSL
6	ML-373043	CLUTCH BLK
7	ZS-373895	DT BID26X08STL CMT
8	BM-373098	MOTOR DVX-67A2R2 [CAPSTAN MOTOR]
9	ZS-373895	DT BID26X08STL CMT
10	ZS-419782	BID26X05STL CMT
11	ED-373101	D LED LNS9 INFRARED [SENSOR PCB D1]
12	ET-361463	DETECTOR ON2170 Q.R [SENSOR PCB PH1]
13	ZS-368173	DT BID30X08STL CMT TW
14	MZ-V1075A090A	GEAR TOGGLE (S) BLK VS-35EA
15	ZG-373542	SP TORSION GEAR TOGGLE(S)
16	MZ-V1075A100A	GEAR TOGGLE (TU) BLK VS-35EA
17	ZG-373541	SP TORSION GEAR TOGGLE(TU)
18	ML-367625	LEVER CAM SLIDER PART
19	MZ-5007177	GEAR CAM CENTER (TW)
20	MZ-5007077	GEAR CAM TENSION (TW)
21	BL-367627	ARM FW BRAKE PART
22	ZG-373546	SP PULL FW BRAKE
23	MZ-367628	GEAR WORM PART
24	MZ-5007187	GEAR WHEEL (TW)
25	ZW-373898	SLIT W31X070X050PSL
26	MZ-5007157	GEAR FL DRIVE (TW)
27	ZS-373895	DT BID26X08STL CMT
28	ZS-373895	DT BID26X08STL CMT
29	BM-367631	MOTOR PART [LOADING MOTOR]M901
30	SP-5008877-A	HOUSING MOTOR PART (TW)
31	MR-373045	PULLY BELT LOADING
32	ZG-373046	SP TORSION TRIGGER
33	MB-373096	BELT LOADING
34	ZW-373901	SLIT W22X060X050PSL
35	ZS-373897	PLX BID26X10STL CMT
36	ES-373100	SW MODE SELECTOR D22Q-S2 [MODE SELECTOR]
37	ZS-373895	DT BID26X08STL CMT
38	MB-373090	BELT IDLER



NOTE: The parts reference numbered here except the ones in 500's are normally stocked for replacement purpose. The rest of the parts shown in this manual are not stocked since they are seldom required for routine service.