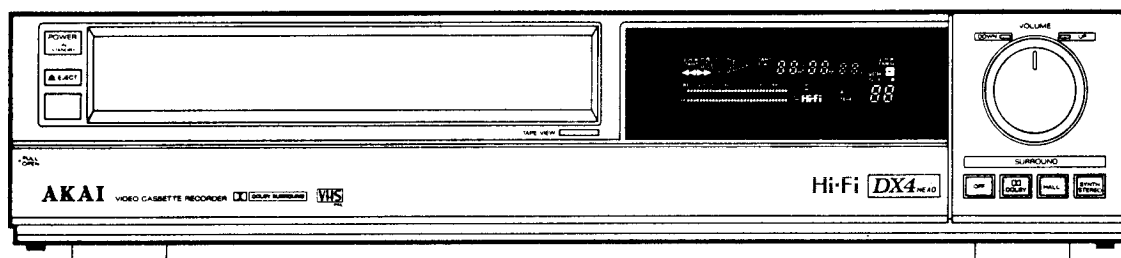


# AKAI SERVICE MANUAL

For Service Manuals Contact  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
 Oxon OX9 4QY  
 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk



## VIDEO CASSETTE RECORDER

## MODEL VS-A77EK

## SPECIFICATIONS

Format . . . . .	VHS standard (PAL)	Tape speed . . . . .	SP mode . . . . . 23.39 mm/sec.
Video recording system . . . . .	Rotary, slant azimuth two-head helical scan system	LP mode . . . . .	11.695 mm/sec.
Rotary heads . . . . .	Four video heads & two audio heads	Quick finder . . . . .	
RF input . . . . .	System I with monaural or multiplexed 2 channel audio (NICAM)	SP mode . . . . .	Approx. 7 times normal speed
RF output . . . . .	System I type modulation	LP mode . . . . .	Approx. 3 times normal speed
Recording (line input) . . . . .	PAL	FF, REW time . . . . .	Approx. 5 min. with E-180 cassette
Playback (line output) . . . . .	PAL	Timer . . . . .	
Video . . . . .		Program . . . . .	8 program/1 month and QUICK TIMER
Line input level . . . . .	0.5 – 2.0 Vp-p/75 ohms, unbalanced	Clock reference . . . . .	Quartz crystal
Line output level . . . . .	1.0 Vp-p/75 ohms, unbalanced	Display . . . . .	TV screen & FL (Tape counter, Timer etc.)
S/N ratio . . . . .	More than 45 dB	Power Amplifier . . . . .	
Horizontal resolution . . . . .	More than 250 lines	Power output . . . . .	8 watts per channel, min. RMS, 8 ohms, 90 – 20,000 Hz, THD 0.9%
Audio . . . . .	(VHS HiFi: 2ch, Linear: 1ch)	Power requirements . . . . .	200 – 240 V AC, 50 Hz
Line input level . . . . .	–8 dBm/50 K ohms, unbalanced (–20 dBm at Recording level control max.)	Power consumption . . . . .	46 W
Line output level . . . . .	–6 dBm/1 K ohms, unbalanced	Operating temperature . . . . .	5°C – 40°C
Dynamic range . . . . .	More than 90 dB (VHS HiFi)	Dimensions . . . . .	425(W) x 92(H) x 418 (D)
Frequency response . . . . .	20 – 20,000 Hz (VHS HiFi)	Weight . . . . .	7.5 kg
Wow & Flutter . . . . .	Less than 0.005% WRMS (VHS HiFi)	Standard accessories . . . . .	
Recording/playback time . . . . .	240 min. with E-240 cassette on SP mode	Antenna cable . . . . .	1
	480 min. with E-240 cassette on LP mode	Remote control unit . . . . .	1
		Batteries for remote control . . . . .	4
		Operator's manual . . . . .	1
		Function decal sheet . . . . .	1

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

# ★ SAFETY INSTRUCTIONS

---

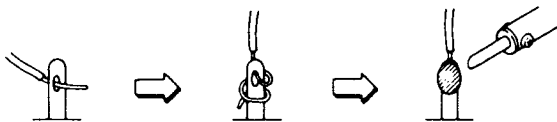
## PRECAUTIONS DURING SERVICING

1. Parts identified by the  $\Delta$  (\*) 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

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

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15  $\mu$ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

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# ★ INFORMATION

## SYMBOLS OF MODEL NAME FOR PRIMARY DESTINATION

Symbol indicates the destination of the units as listed below.

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

### 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.

### 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.

### Double speed playback (Remote control only)

This VCR can play back a tape recorded on SP mode at twice its normal 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.

### 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 15 segments or 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 the 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:** 1. When you press the REC button to begin recording from the recording standby mode (PAUSE/STILL button), new control signals will not be added.  
2. If the control signals are located within 3 minutes of the playback time from the present position, INDEX SEARCH may not be executed correctly.

**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. 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.

---

## TEST MODE

To set unit in Test mode, set CH-PRESET switch to "CANCEL", and depress and hold "TAPE VIEW" button, then depress "SYSTEM RESET" button.

During Test mode, Peak Hold of level meter does not function.

Test mode is canceled by depressing "SYSTEM RESET" button again, or unplug AC power cord.

Test mode allows the following while the unit is turned on.

### 1. TRACKING PRESET

In SP plays mode, Tracking Data displayed at CHANNEL indicator in FLD can be changed from "00" to "3F" (64 steps) by depressing Tracking buttons.

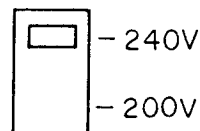
Tracking Preset Data (1F or 20: REFERENCE) can be memorized by depressing "MEMO" button.

### 2. FL Display check

By depressing "TAPE VIEW" button, all indicator segments in FLD light up.

## VOLTAGE CONVERSION

Before connecting the power cord, set the VOLTAGE SELECTOR located on the rear panel to the correct voltage in your area with as screw driver.



VOLTAGE SELECTOR

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# I. CONTROLS

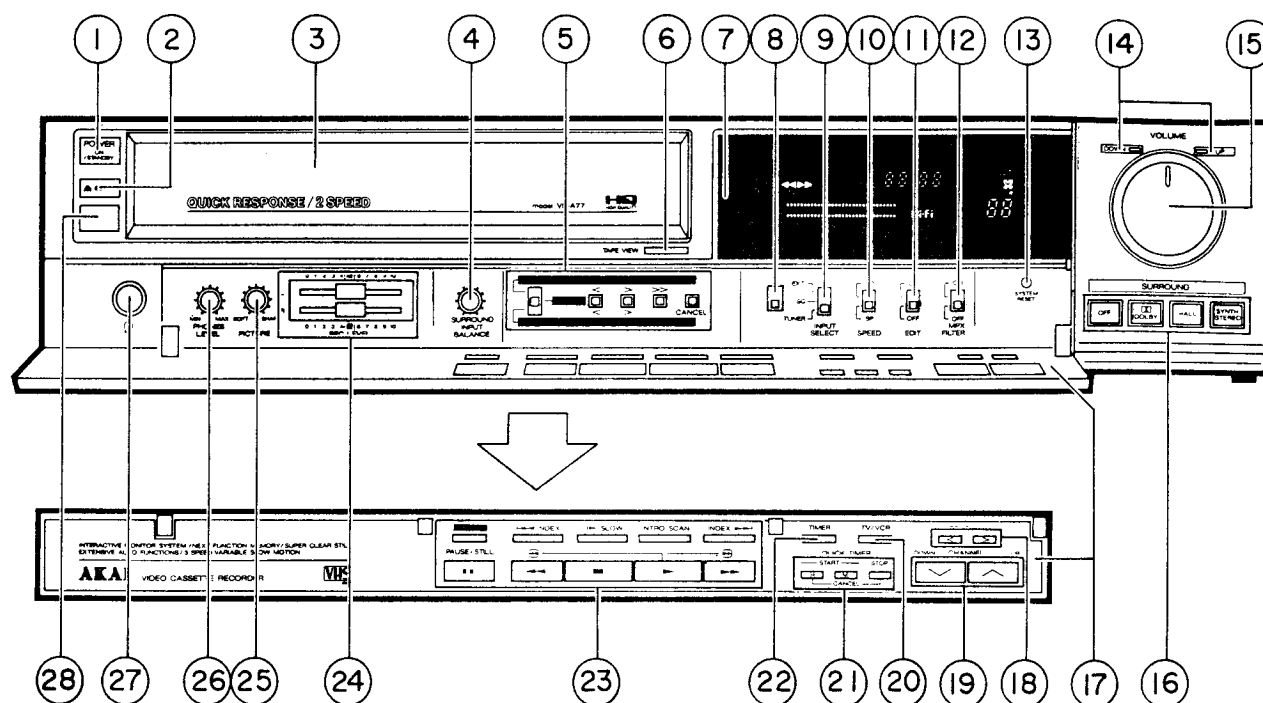


Fig. 1-1 Front View

1. **POWER ON/STANDBY button**  
To turn the VCR on or off (standby mode)
2. **EJECT ( $\Delta$ ) button**  
To eject the video cassette tape. The tape can be ejected with the power on or off.
3. **Cassette loading slot**  
Load the VHS video cassette here.
4. **SURROUND INPUT BALANCE control (VS-77 only)**  
To adjust the surround balance.
5. **Channel preset buttons**  
Used when presetting stations.
6. **TAPE VIEW button**  
To turn the inside light on for tape viewing.
7. **FL (Fluorescent) display**  
Tells you what the VCR is doing.
8. **AUDIO RECEPTION switch**  
To set the VCR for regular TV audio reception or both regular TV and NICAM audio reception.
9. **INPUT SELECT switch (EXT./SC/TUNER)**  
To select the recording source. Normally set to TUNER when recording TV programs.
10. **SPEED switch (LP/SP)**  
To set the tape speed for recording.
11. **EDIT switch**  
To improve picture quality and to remove the interactive monitoring indicators from the TV screen during tape dubbing.
12. **MPX FILTER switch**  
To turn the multiplex filter on or off for recording.
13. **SYSTEM RESET button**  
To reset the VCR if malfunction has occurred. Clock and program data will be cancelled when the SYSTEM RESET button is pressed.
14. **Volume UP/DOWN indicator**  
Flashes when volume is being increased or decreased.
15. **VOLUME control**  
To increase or decrease the volume level.
16. **SURROUND buttons (OFF/DOLBY/HALL/SYNCH. STEREO)**  
For selection or cancellation of the surround mode.
17. **Sub-panel door**
18. **TRACKING ( $< >$ ) buttons**  
To fine tune the playback picture.
19. **CHANNEL UP ( $\wedge$ )/DOWN ( $\vee$ ) buttons**  
To select channels.
20. **TV/VCR button**  
To switch between the TV and VCR.
21. **QUICK TIMER buttons**  
To set or cancel the sleep timer or standby recording mode.
22. **TIMER button**  
To set or cancel the VCR automatic recording mode.
23. **Tape transport buttons**  
To run the tape for recording or playback.
24. **REC LEVEL control**  
To set the Hi-Fi track recording level. This control does not effect conventional audio tracks, as their levels are fixed during recording.
25. **PICTURE (SOFT/SHARP) control**  
To soften or sharpen the playback picture.
26. **PHONES LEVEL control**  
To control the headphone volume level.
27. **Phones ( $\Omega$ ) jack**  
For connection of headphones.
28. **Remote control sensor window**  
For reception of the remote control's signal.

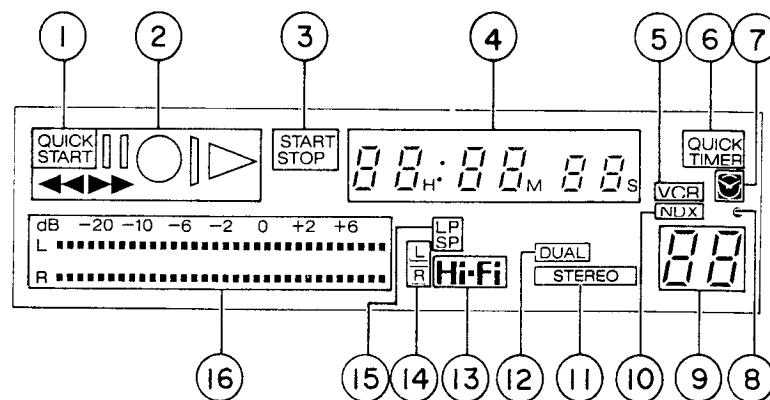


Fig. 1-2 FL Display

- |  |  |
|--|--|
| 1. QUICK START indicator                                 | 9. Channel indicator                                     |
| 2. Tape mode indicators                                  | 10. INDX (Index) indicator                               |
| 3. Quick timer START, STOP indicators                    | 11. STEREO mode indicator                                |
| 4. Clock/counter display                                 | Lights when a stereo TV broadcast is received.           |
| 5. VCR mode indicator                                    | 12. DUAL mode indicator                                  |
| 6. QUICK TIMER indicator                                 | Lights when a NICAM multi channel broadcast is received. |
| 7. Timer indicator                                       | 13. Hi-Fi mode indicator                                 |
| 8. AFC indicator   | 14. Audio output indicator                               |
| Lights when the AFC (Automatic Frequency Control) is on. | 15. Tape speed (LP/SP) indicators                        |
|  | 16. Audio level meter                                    |

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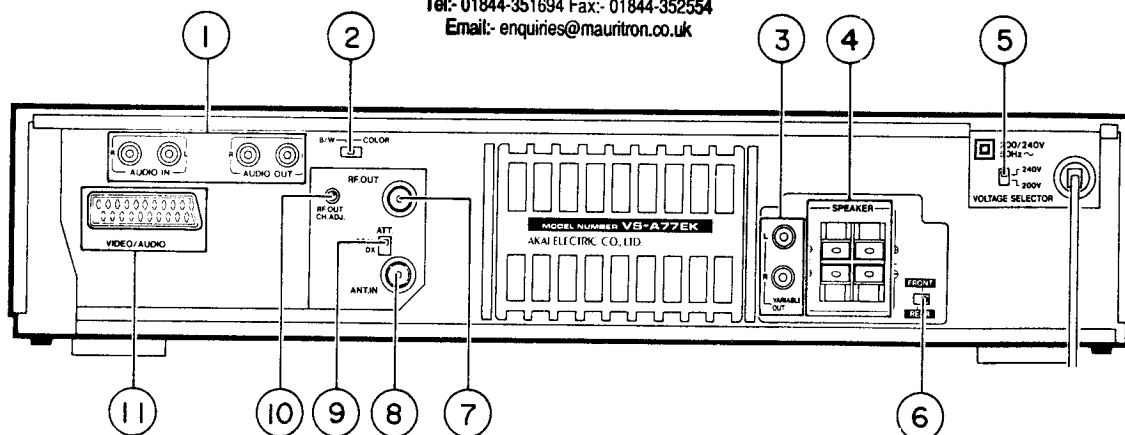


Fig. 1-3 Rear View

- |   |                                     |
|---|-------------------------------------|
| 1. AUDIO IN and OUT R/L terminals   | 7. RF. OUT terminal                 |
| 2. Video mode selector  | 8. ANT. IN terminal                 |
| 3. Surround VARIABLE OUT R/L terminals  | 9. LOCAL/DX ATT (attenuator) switch |
| 4. SPEAKER R/L terminals  | 10. RF. OUT selector                |
| 5. VOLTAGE SELECTOR switch  | 11. VIDEO/AUDIO (21 PIN) terminal.  |
| 6. Surround FRONT/REAR switch   |                                     |
| Use this switch to set the speakers connected to the SPEAKER terminals as either front or rear speakers. The output signal from the VARIABLE OUT terminals is automatically set to the opposite position. |                                     |

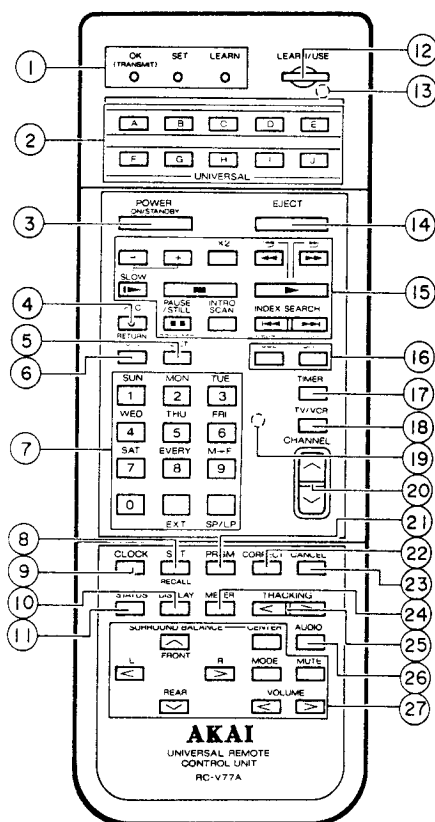


Fig. 1-4 Remote Control

1. **Universal function indicators**  
Light when transferring other remote control function signals to this unit. The OK (TRANSMIT) indicator also flashes during regular operation of the remote control.
2. **UNIVERSAL buttons**  
To control another component or TV with this remote control unit after the chosen function signal from the other component's remote control has been transferred to these buttons.
3. **POWER ON/STANDBY button**  
To turn the VCR's power on and off (standby mode).
4. **REC (Recording) button**  
To set the VCR to the recording mode.
5. **COUNTER RESET button**  
To reset the tape counter.
6. **RETURN TO "0" button**  
To wind the video tape to the 0:00:00 position of the tape counter.
7. **Multi-function buttons**  
Used for clock and program setting. Also used to select channels.
8. **SET/RECALL button**  
Used for setting clock data. Also used to recall program data.
9. **CLOCK button**  
To display the clock for clock setting on the TV screen.
10. **DISPLAY button**  
To display the clock and tape counter on the TV screen.
11. **STATUS button**  
To display the tape counter, clock, VCR mode indicator, and channel number on the TV screen. Also used to display the surround mode, main volume level indicator, and L/R speaker balance indicator.
12. **LEARN/USE button**  
Used when transferring other remote control function signals to this unit.
13. **RESET button**
14. **EJECT button**  
To eject a video tape from the VCR.
15. **Tape transport buttons**
16. **NEXT MODE buttons**  
Used for next mode and auto off mode programming.
17. **TIMER button**  
To set or cancel the VCR automatic recording mode.
18. **TV/VCR button**  
To watch one program while recording another.
19. **AUX/VCR select button**  
To convert function buttons to extra universal buttons.
20. **CHANNEL button**  
To select channels.
21. **PRGM (Program) button**  
To display the program display on the TV screen.
22. **CORRECT button**  
To correct data during clock or program setting.
23. **CANCEL button**  
To cancel preset programs.
24. **METER button**  
To activate the audio peak level meter. When the meter is off, the FL display is automatically dimmed to a lower light level.
25. **TRACKING button**  
To correct tracking during playback.
26. **AUDIO button**  
To select audio output.
27. **Audio control buttons**  
For control of volume and volume balance, muting and to switch between the surround modes.

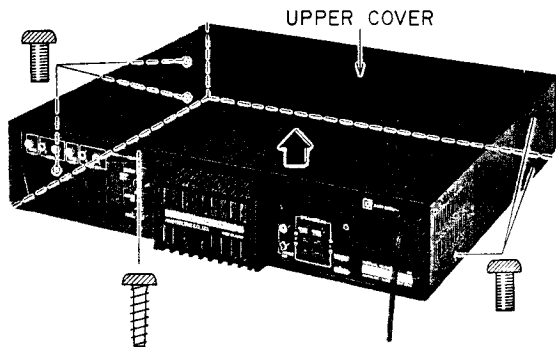


## II. DISASSEMBLY

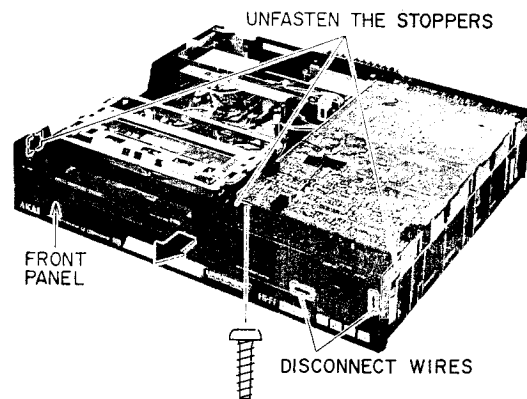
In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

\* Photographs of model VS-A77EA are employed here.

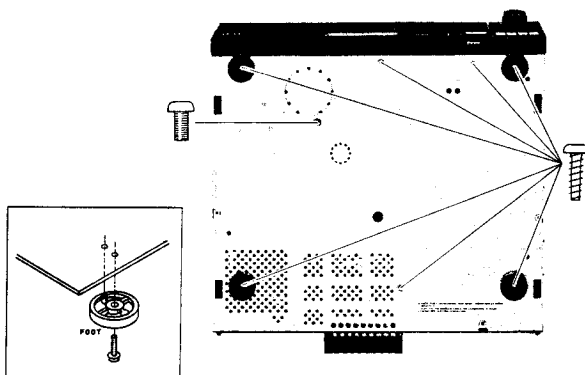
### 1 Removal of Upper Cover



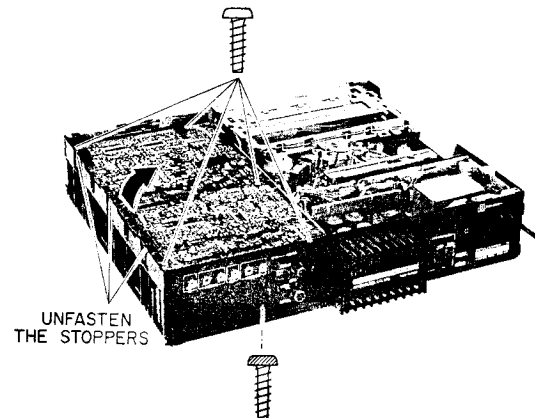
### 4



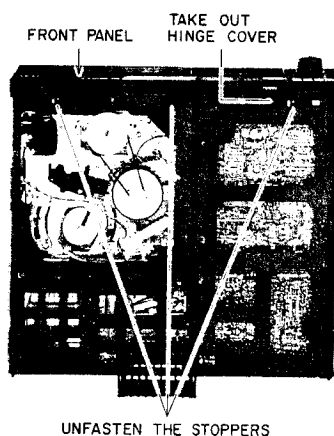
### 2 Removal of Bottom Cover



### 5 Removal of Audio/Video PCB

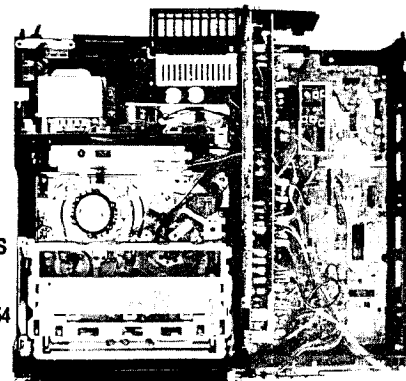


### 3 Removal of Front Panel



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### 6



### III. PRINCIPAL PARTS LOCATION

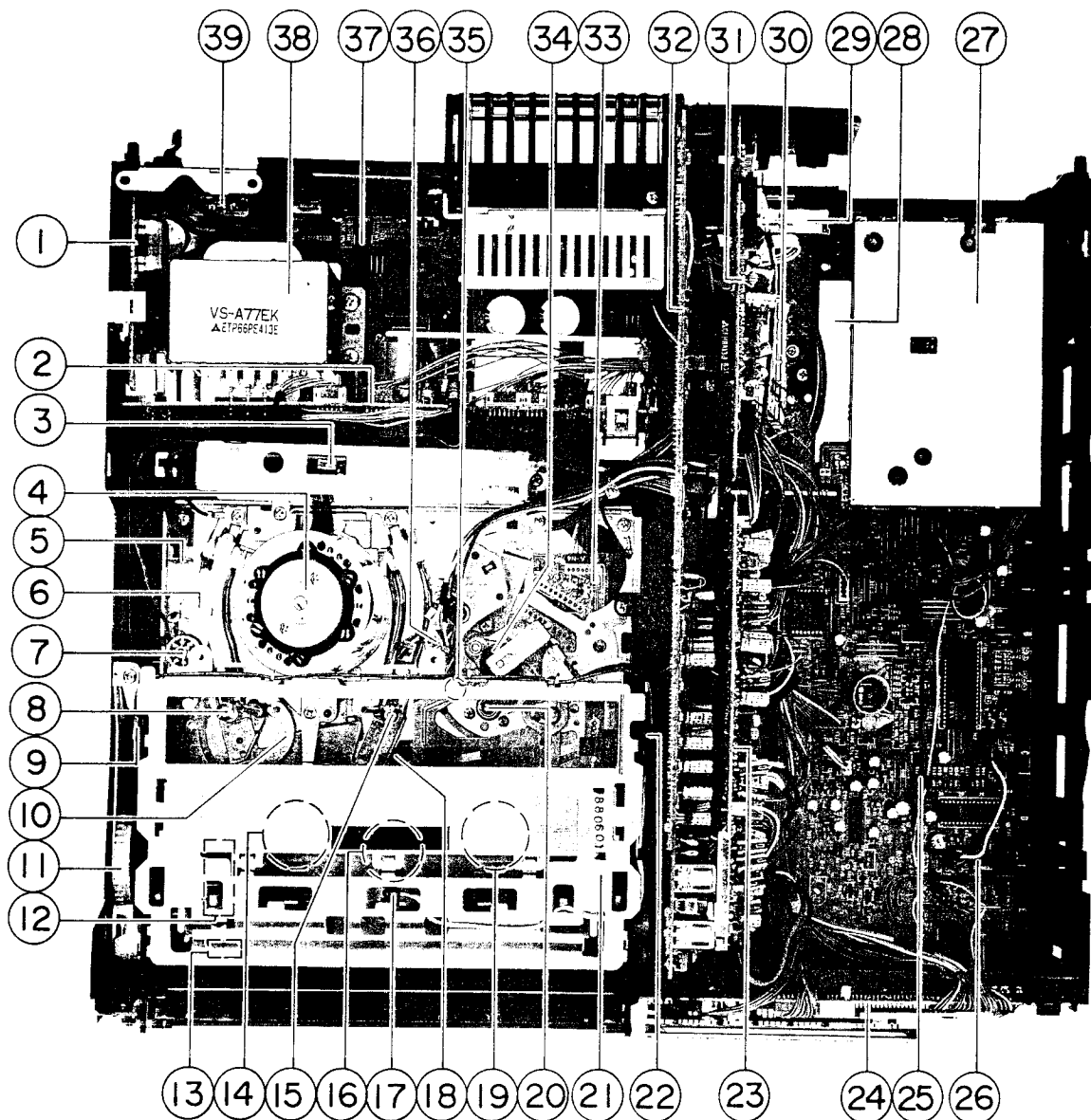


Fig. 3-1 Top View

- |                                 |                          |
|---------------------------------|--------------------------|
| 1. POWER PCB                    | 21. EJECTOR BLK          |
| 2. POWER SUPPLY PCB             | 22. SENSOR (T) PCB       |
| 3. PRE AMP PCB                  | 23. SURROUND PCB         |
| 4. HEAD DRUM BLK.               | 24. OPERATION (A) PCB    |
| 5. TR PCB                       | 25. SERVO PCB            |
| 6. FULL TRACK ERASE HEAD        | 26. SERVO LOCK PCB       |
| 7. SUPPLY TAPE GUIDE            | 27. NICAM PCB            |
| 8. S. LOADING LEADER (LEFT)     | 28. RF PCB               |
| 9. SENSOR (S) PCB               | 29. RF CONVERTOR UNIT    |
| 10. TENSION ARM                 | 30. TUNER UNIT           |
| 11. LOADING MECH. BLK           | 31. CHROMA PCB           |
| 12. LOADING MOTOR               | 32. AUDIO/VIDEO PCB      |
| 13. REC SAFETY SWITCH           | 33. CAPSTAN MOTOR PCB    |
| 14. SUPPLY REEL TABLE           | 34. PINCH ROLLER         |
| 15. T.U. LOADING LEADER (RIGHT) | 35. TAKE-UP TAPE GUIDE   |
| 16. CLUTCH BLK                  | 36. AUDIO/CONTROL HEAD   |
| 17. ROOM LAMP                   | 37. MAIN AMP PCB         |
| 18. SENSOR LED                  | 38. POWER TRANSFORMER    |
| 19. TAKE-UP REEL TABLE          | 39. VOLTAGE SELECTOR PCB |
| 20. CAPSTAN SHAFT               |                          |

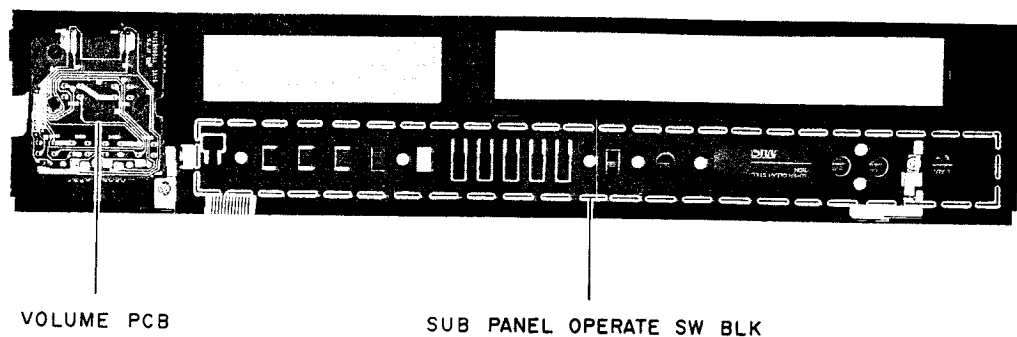


Fig. 3-2 Front Panel Rear View

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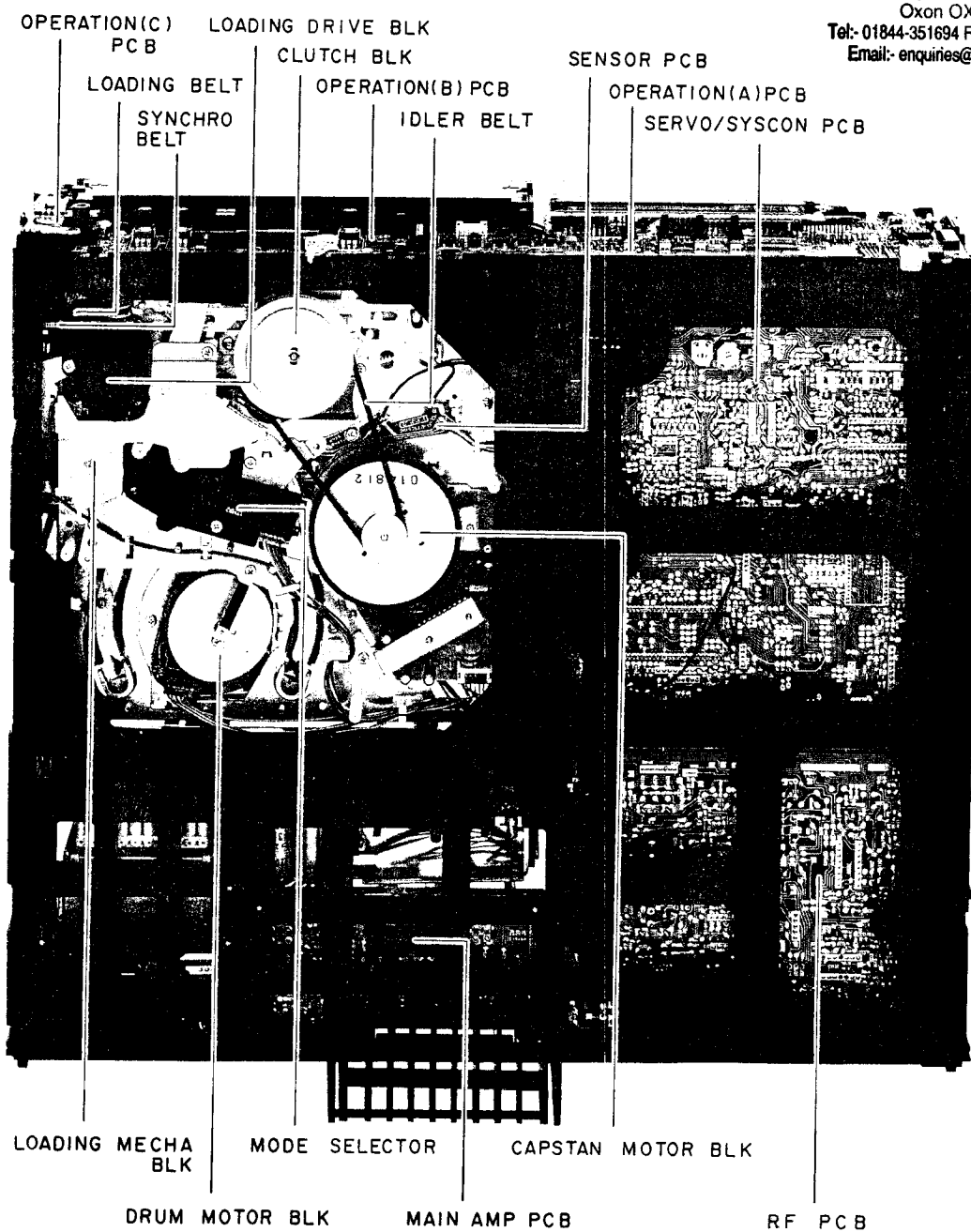


Fig. 3-3 Bottom View

## IV. MAIN COMPONENTS REPLACEMENT

### 4-1. SUB PANEL OPERATE SW BLOCK

#### 4-1-1. REMOVAL OF SUB PANEL OPERATE

##### SW BLOCK

- 1) Remove the Front Panel. (Refer to II. DISASSEMBLY.)
- 2) Unfasten the stoppers, then remove the VOLUME P.C. Board as shown in Fig. 4-1.
- 3) Take out a screw (A) and a screw (B) as shown in Fig. 4-2.

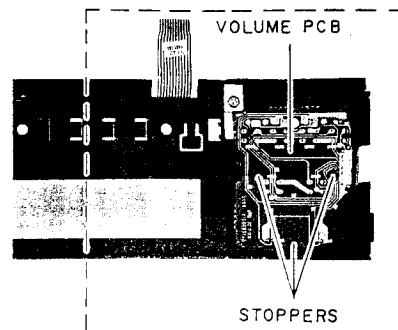


Fig. 4-1

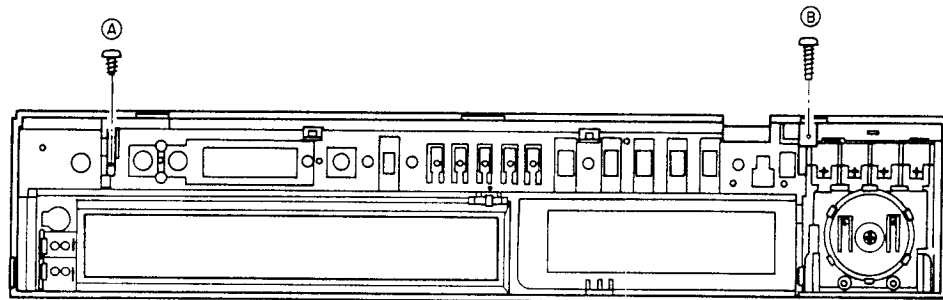


Fig. 4-2

- 4) Unfasten the stopper (A) and take off the stoppers (B) on the SUB PANEL BLOCK with a small  $\ominus$  screwdriver as shown in Fig. 4-3.

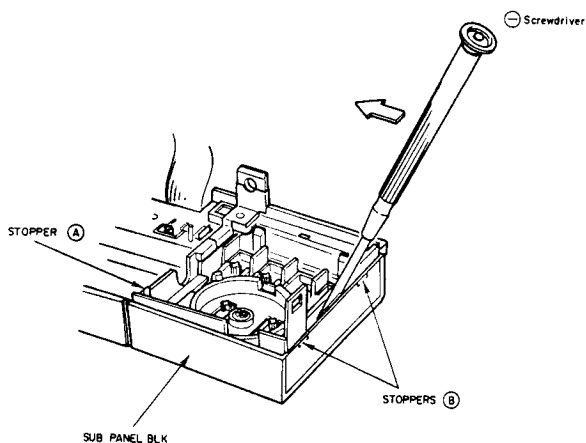


Fig. 4-3

- 5) Remove the SUB PANEL BLOCK from the Front Panel as shown in Fig. 4-4.

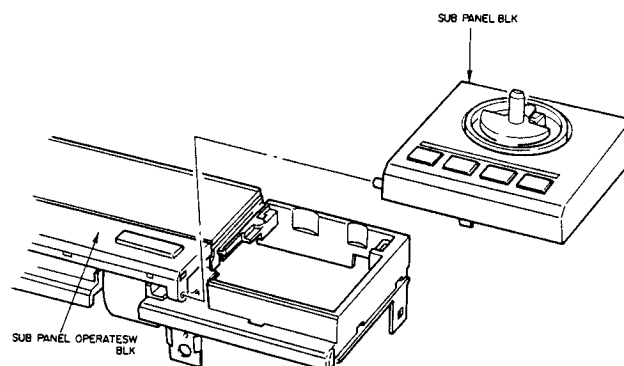


Fig. 4-4

- 6) Unfasten the two stoppers carefully, then remove the SUB PANEL OPERATE SW BLOCK as shown in Fig. 4-5.

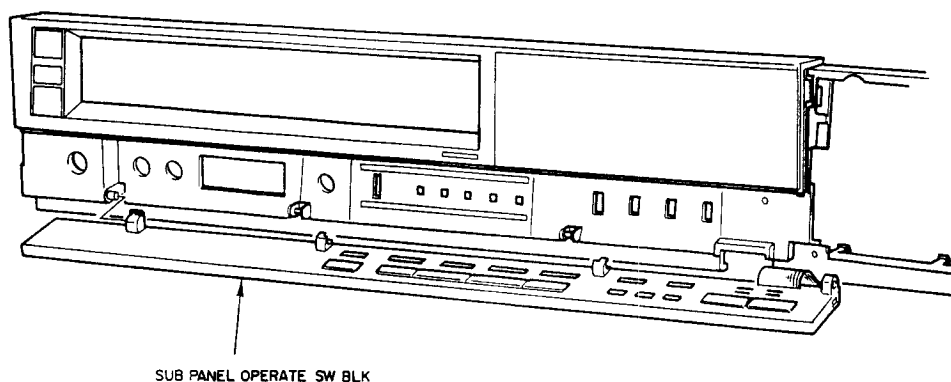


Fig. 4-5

## 4-2. EJECTOR BLOCK

### 4-2-1. 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 out two screws (A) and disconnect P44 from SERVO/SYS CON. P.C. Board.
- 4) Remove the Ejector Block.

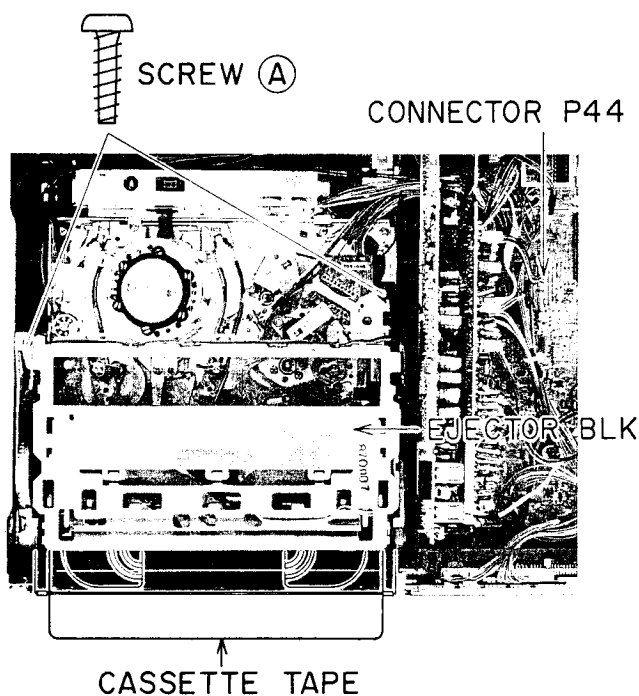


Fig. 4-6

### 4-2-2. INSTALLATION OF THE EJECTOR BLOCK

- 1) Install the Ejector Block on the MECHA chassis as shown in Fig. 4-7.
- 2) Tighten two screws (A) and connect P44.
- 3) Plug in AC POWER CORD and Depress the POWER button to turn ON the VCR.
- 4) Confirm that unit will function correctly.

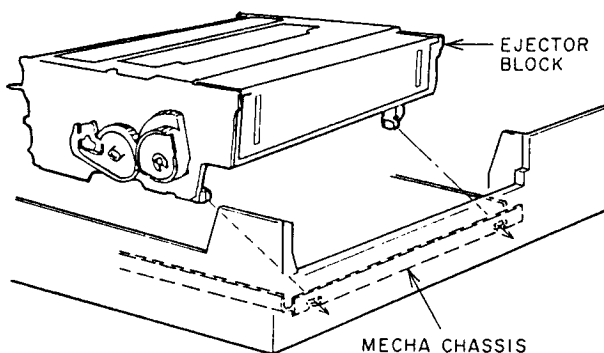


Fig. 4-7

## 4-3. LOADING MECHANISM BLOCK

### 4-3-1. REMOVAL OF MECHANISM BLOCK

- 1) Remove the Ejector Block. (Refer to 4-2-1. REMOVING THE EJECTOR BLOCK.)
- 2) Take out a screw (A) and remove the Transistor.
- 3) Take out three screws (B) and disconnect P401 and P8 on the PRE-AMP P.C. Board, then remove the PRE-AMP P.C. Board.

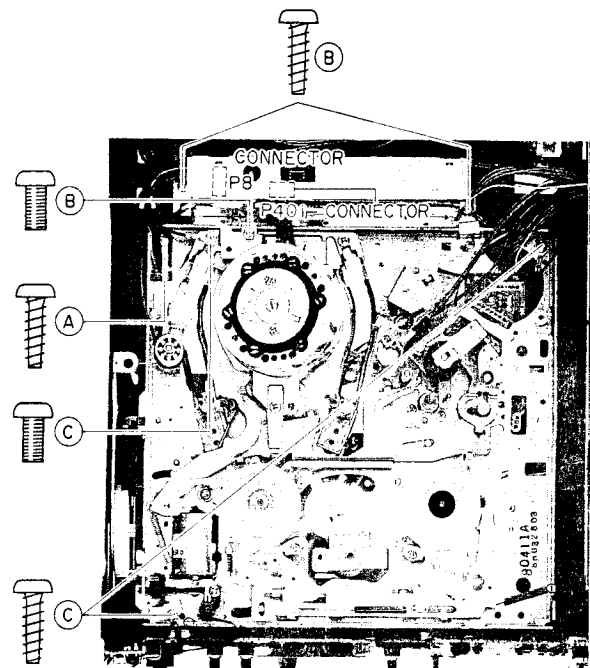


Fig. 4-8

- 4) Disconnect P40, P41, P42, P43, P45 and P46 on the SERVO/SYS CON P.C. Board, and P47 and P48 on the AUDIO/VIDEO P.C. Board.
- 5) Take out three screws (C), then remove the MECHA BLK.

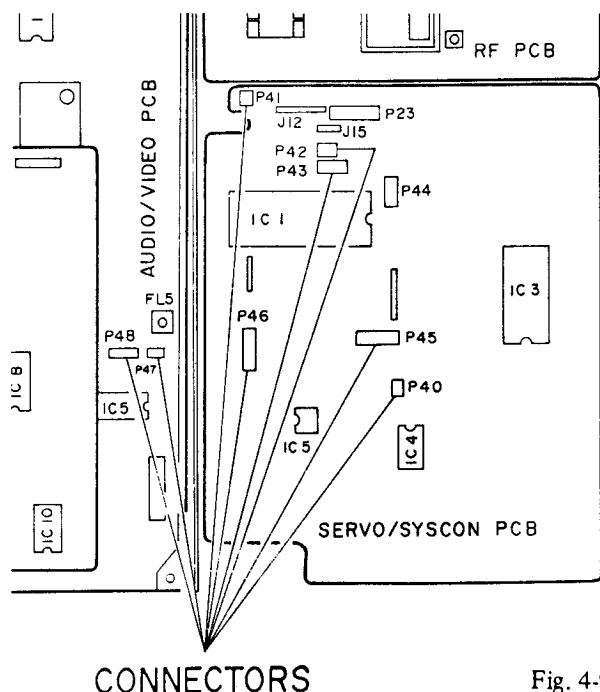


Fig. 4-9

#### 4-3-2. REASSEMBLE OF THE LOADING MECHANISM BLOCK

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

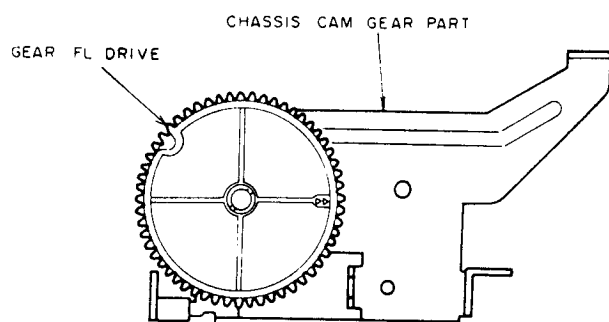


Fig. 4-10

- 2) Install the GEAR WARM PART as shown in Fig. 4-11.

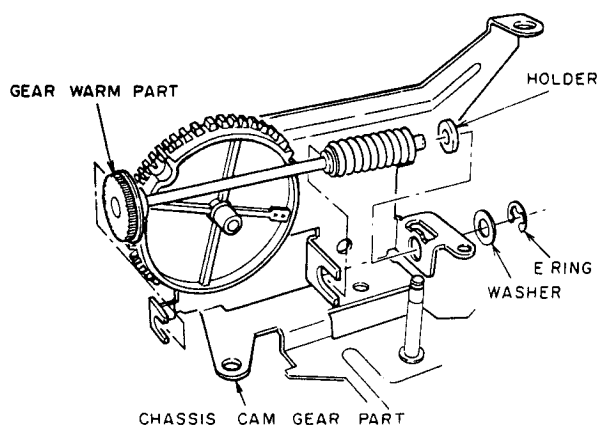


Fig. 4-11

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

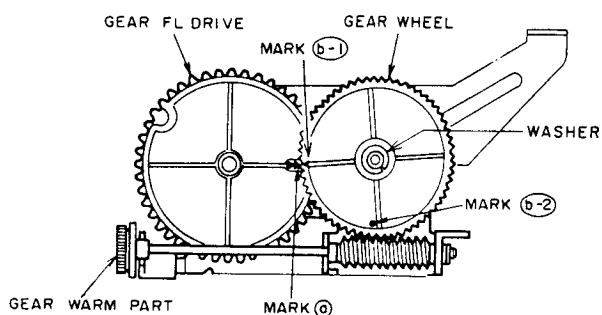


Fig. 4-12

- 4) Attach the LEVER CAM SLIDER as shown in Fig. 4-13.

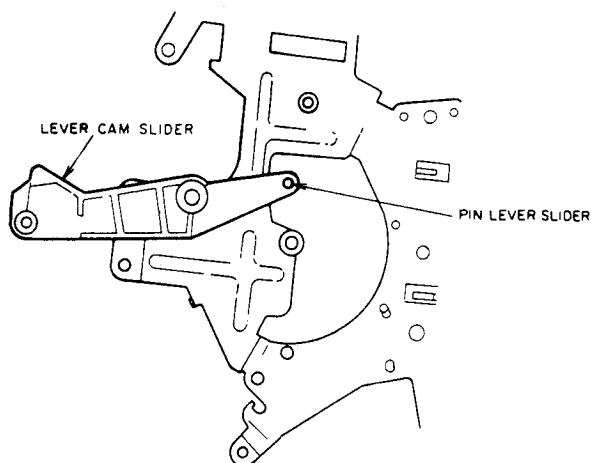


Fig. 4-13

- 5) Attach the GEAR CAM CENTER so that pin lever slider head appear from the hall (A) of the GEAR CAM CENTER.

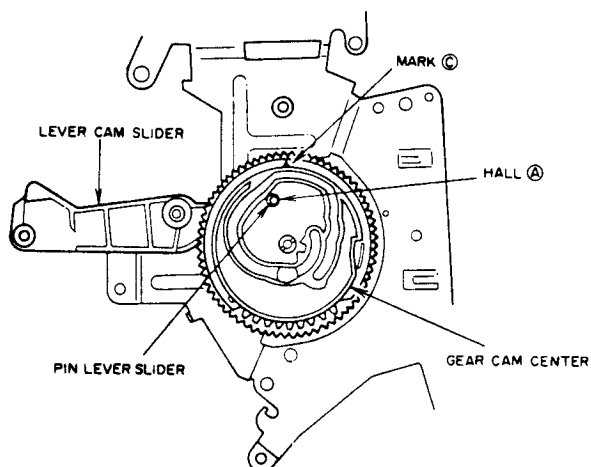


Fig. 4-14

- 6) Attach the GEAR CAM TENSION so that the GEAR CAM TENSION mark (d-1) coincide with 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.

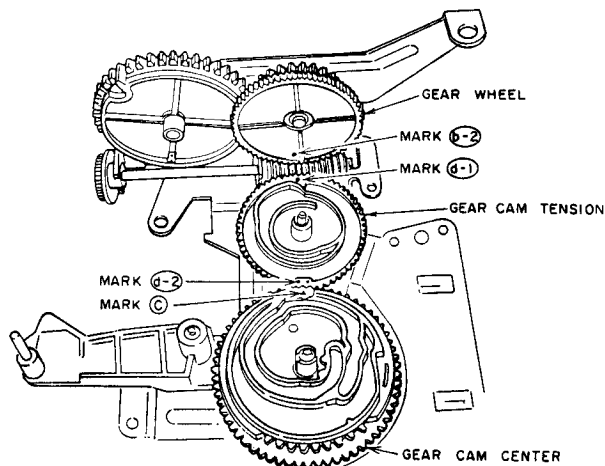


Fig. 4-15

- 7) Attach the ARM FWD BRAKE and Spring as shown in Fig. 4-16.

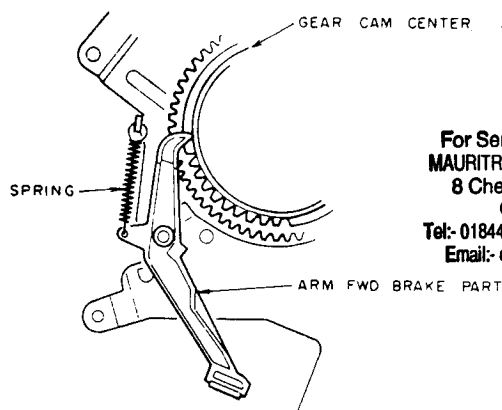


Fig. 4-16

- 10) Meet the marks of MODE SELECT SW and attach the MODE SELECT SW BLK onto the LOADING MECHA BLK as shown in Fig. 4-19. Tighten the MODE SELECT SW BLK with a screw ③.

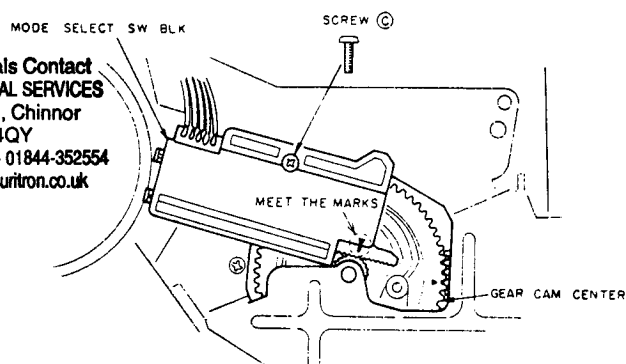


Fig. 4-19

- 8) Set the GEAR TOGGLE (TU) and (S) to the unloaded position with your fingers. At this time match the marks of the GEAR TOGGLE (TU) and (S) as shown in Fig. 4-17.

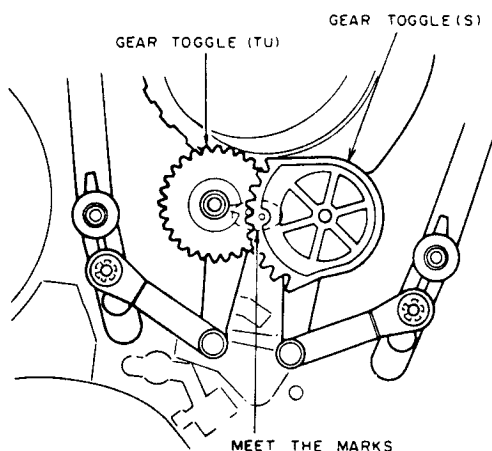


Fig. 4-17

- 11) Attach the BELT IDLER as shown in Fig. 4-20.

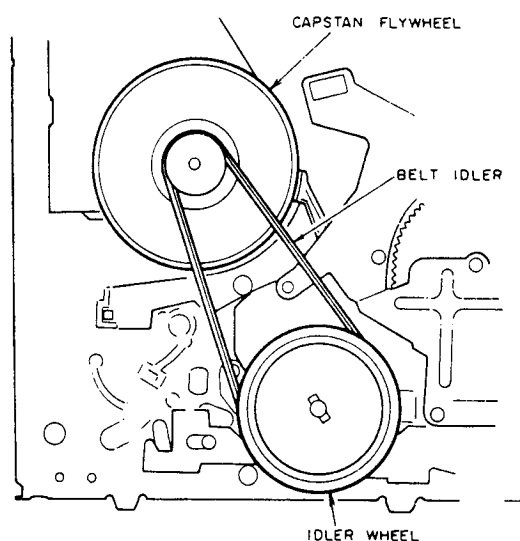


Fig. 4-20

- 9) Attach the LOADING MECHA BLK with holding the GEAR TOGGLE (TU) in the direction of the arrow as shown in Fig. 4-18. Tighten the LOADING MECHA BLK with four screws ① and ②.

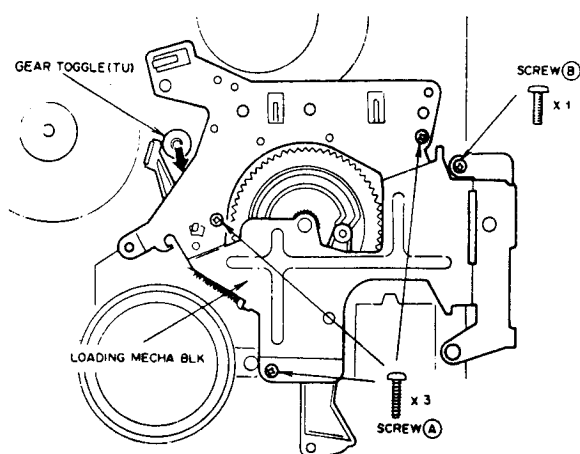


Fig. 4-18

- 12) Attach the LOADING DRIVE BLK and the SYNCHRO BELT, then tighten with a screw ④.

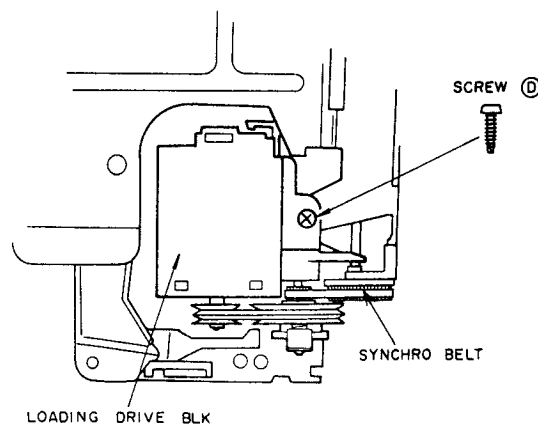


Fig. 4-21

#### 4-4. UPPER DRUM (HEAD DRUM REPLACEMENT)

##### 4-4-1. REMOVAL OF UPPER DRUM

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

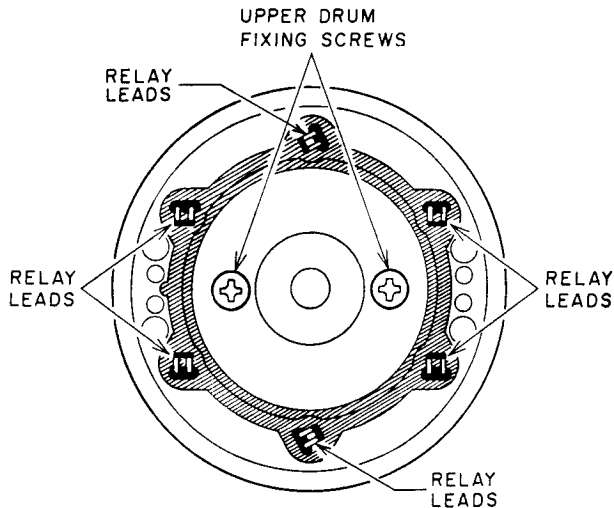


Fig. 4-22

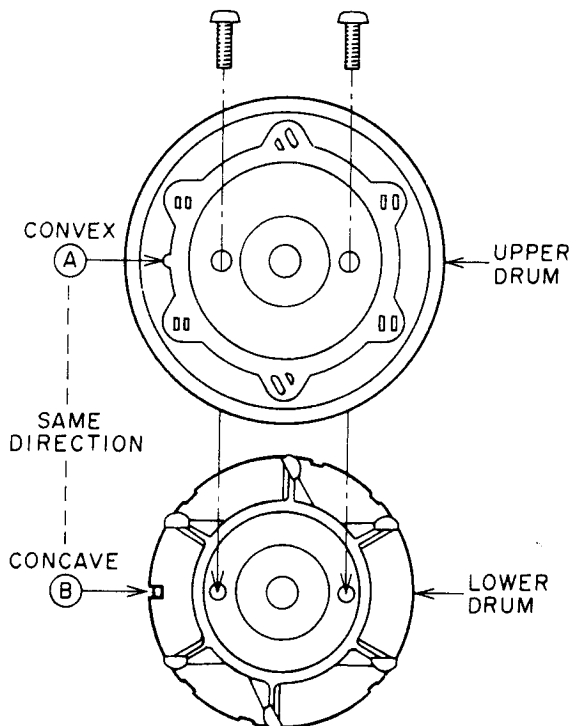


Fig. 4-23

##### 4-4-2. 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 precision 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 pre-load.
- (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 6 kg-cm torque.

##### 4-4-3. AFTER REPLACEMENT

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

###### Mechanical adjustment.

- 1) Control head phase adjustment (Refer to 5-2-4)

###### Electrical adjustment

- 1) PB switching point adjustment (Refer to 6-1-2)
- 2) Video Rec current adjustment (Refer to 6-1-7)
- 3) Rec/PB Video level adjustment (Refer to 6-1-8)
- 4) HiFi switching point confirmation (Refer to 6-2-1)
- 5) HiFi Rec current adjustment (Refer to 6-2-8)
- 6) HiFi PB level adjustment (Refer to 6-2-10)

#### 4-5. DRUM MOTOR REPLACEMENT

- 1) Disconnect the connector P102 from the Drum Motor P.C. Board.
- 2) Take out two screws (A) and remove the Rotary plate.

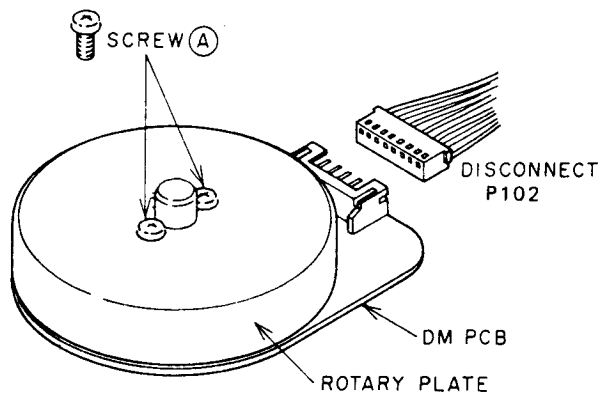


Fig. 4-24



- 3) Take out three screws ⑥ and replace the drum Motor.

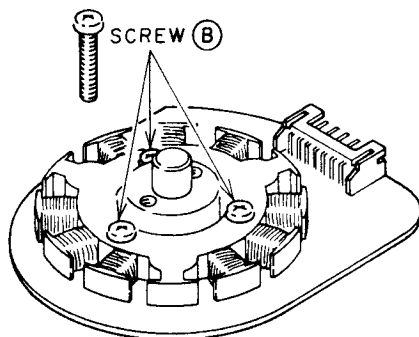


Fig. 4-25

- 4) Attach the Rotary plate to the Drum Motor so that the Rotary plate hall ① and Collar preload hall ② are in a same direction.

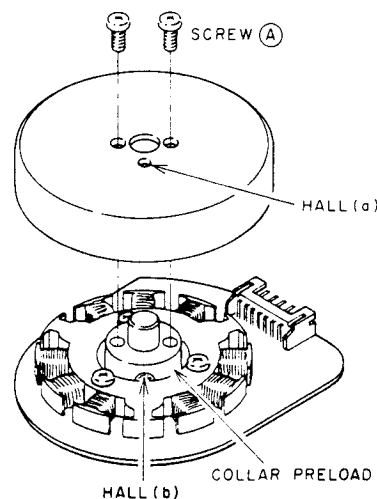
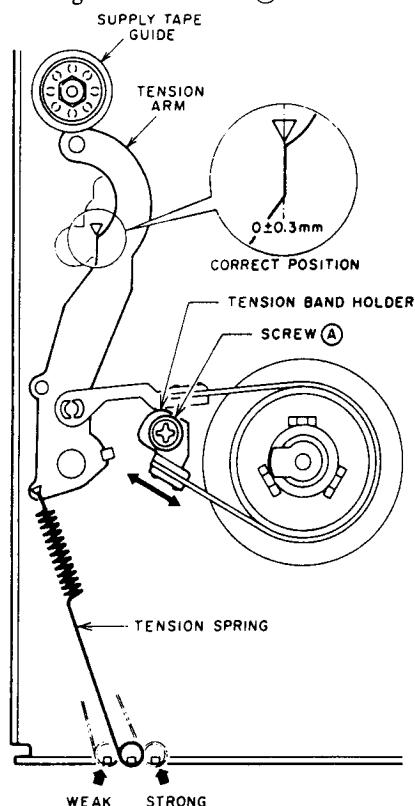


Fig. 4-26

## V. MECHANICAL ADJUSTMENT

### 5-1. BACK TENSION ADJUSTMENT

- 1) Remove the Ejector Block. (Refer to 4-2-1 REMOVING THE EJECTOR BLOCK.)
- 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 ① 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 ①.



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- 4) Depress the Power button to Turn OFF.
- 5) Set the Reference Tape TF-532CBS (AT-751360) 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.

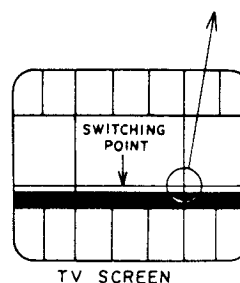
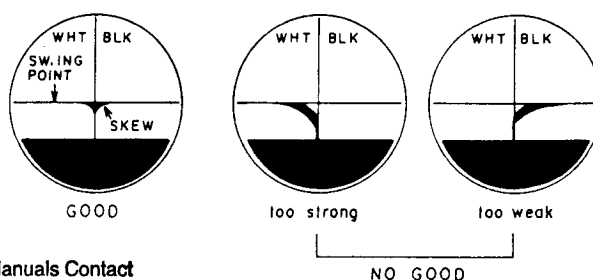


Fig. 5-2

Fig. 5-1

## 5-2. TAPE TRANSPORT ADJUSTMENTS

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

- 1) Playback the Reference tape TF-530RFS (AT-751775).
- 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.

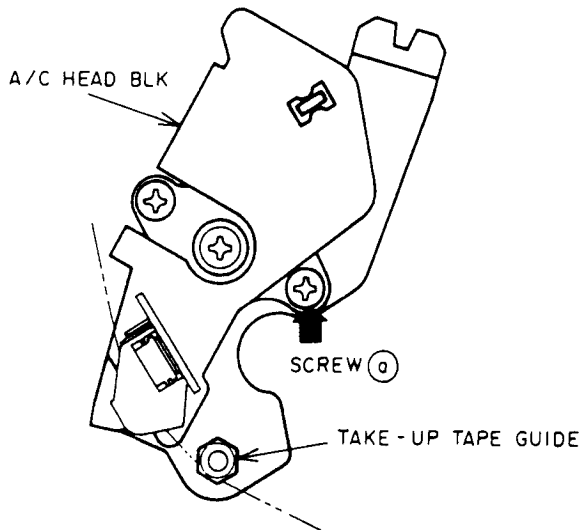


Fig. 5-3

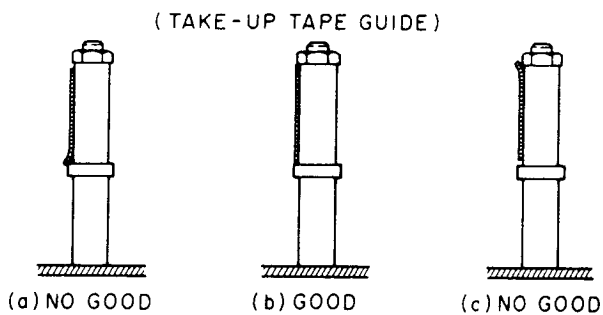


Fig. 5-4

### 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

- 1) Connect an AC volt meter or an oscilloscope to AUDIO OUT jack on the Rear panel.
- 2) Playback the Reference tape TF-530RFS (AT-751775).
- 3) Adjust the screw (b) to obtain the maximum audio output.

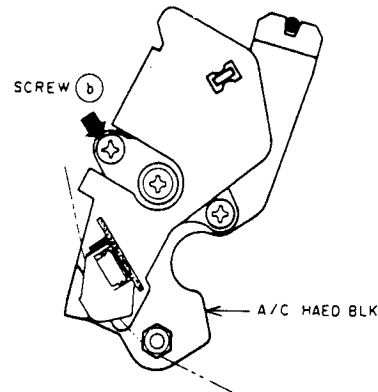


Fig. 5-6

### 5-2-4. CONTROL HEAD PHASE ADJUSTMENT

- 1) Connect an Oscilloscope to TP301 (ENVE) on the CHROMA P.C. Board.
- 2) Playback the Reference tape TF-530RFS (AT-751775).
- 3) Depress the TRACKING button  $\left[ \begin{array}{|c|} \hline < \\ \hline \end{array} \right]$  or  $\left[ \begin{array}{|c|} \hline > \\ \hline \end{array} \right]$  on the Front panel until "X" 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.

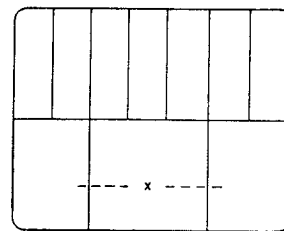


Fig. 5-7

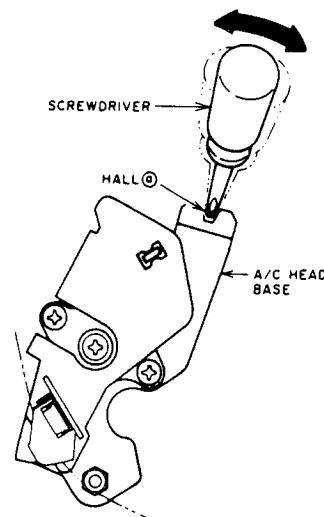


Fig. 5-8

### 5-2-5. ARM REVIEW HEIGHT ADJUSTMENT

- 1) Playback the beginning part of E-180 tape and set the unit in Review mode with depressing REW button.
- 2) Turn the ARM REVIEW height nut (a) 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.

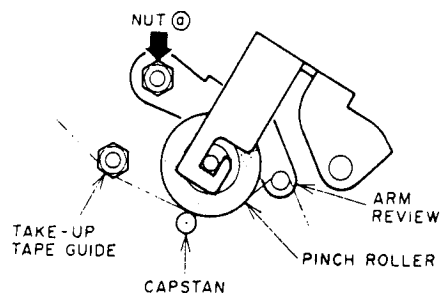


Fig. 5-9

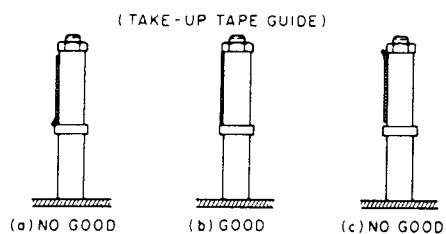


Fig. 5-10

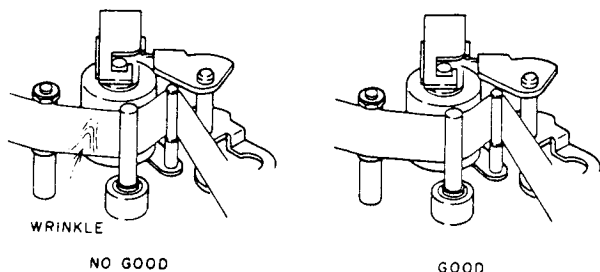


Fig. 5-11

### 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 LEADER can be adjusted with reasonable tightness. (Refer to Fig. 5-12.)
- 2) Playback the Reference tape TF-530RFS (AT-751775).
- 3) Connect an Oscilloscope to TP301 (ENVE) on the CHROMA P.C. Board.
- 4) Turn the LOADING LEADER heads with a screw-driver to obtain flat RF envelope as Ideal Envelope shown in Fig. 5-13.
- 5) After the adjustments, tighten the LOADING LEADER set screws.

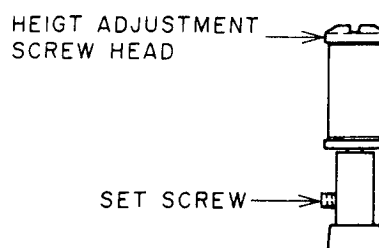


Fig. 5-12

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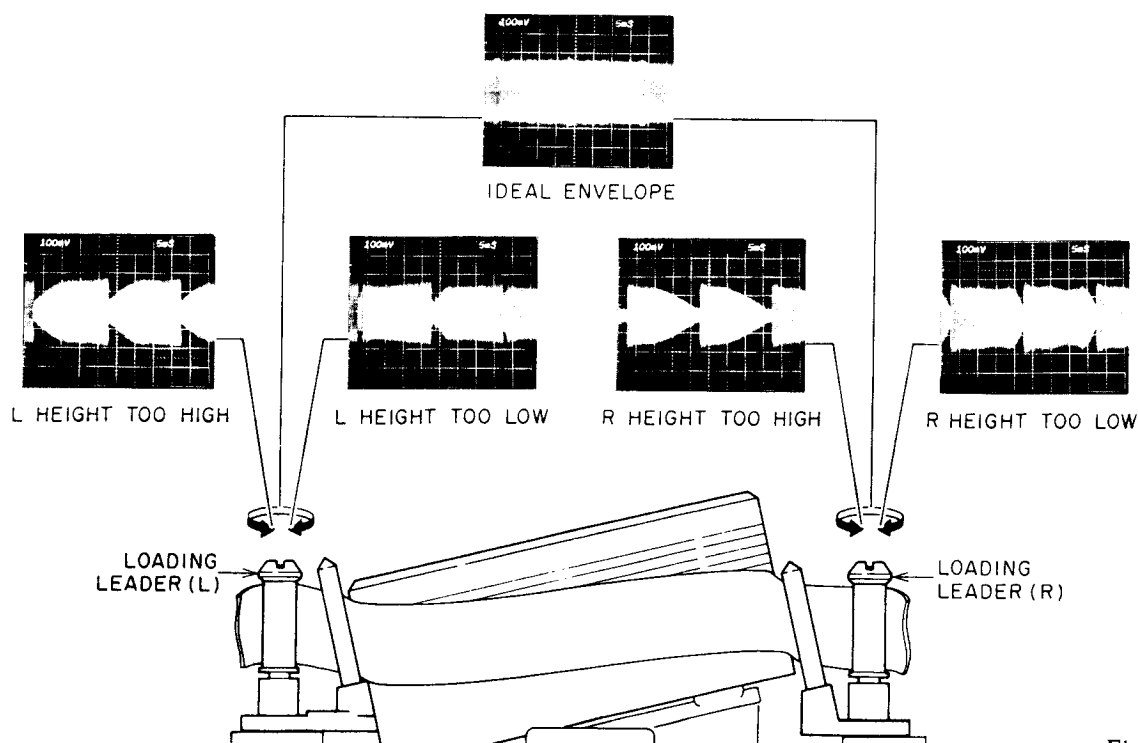


Fig. 5-13

### 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 TP4 on the SERVO/SYSCON P.C. Board.
- 3) Turn the hexagon screw to obtain 1/2 of the output level of either CH1 or CH2 whichever has output signal.

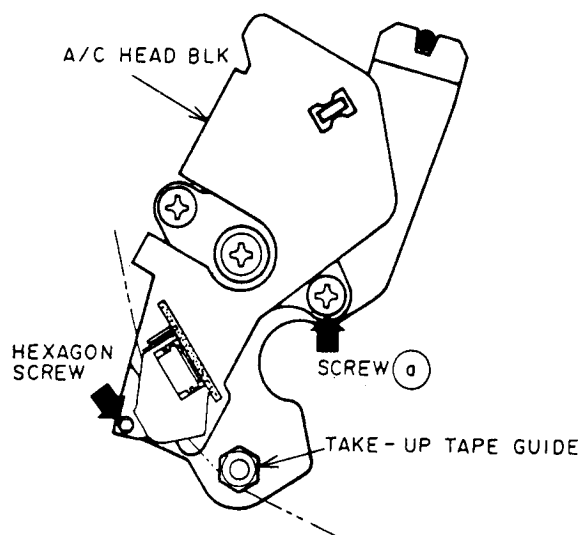


Fig. 5-14

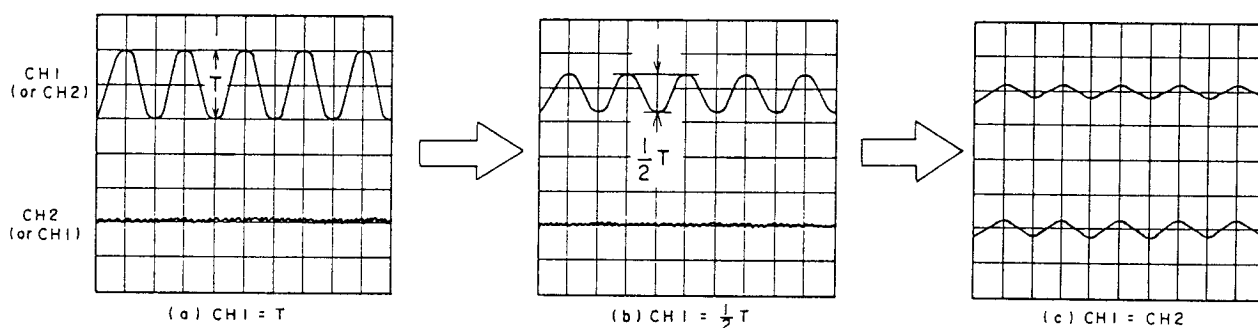


Fig. 5-15

- 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.

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## VI. ELECTRICAL ADJUSTMENT

### 6-1. VIDEO AND SERVO ADJUSTMENT

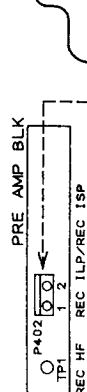
Precautionary items prior to adjustments

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-527BL	AT-711880
TF-530RFS	AT-751775
TF-531RFL	AT-751359
TF-532CBS	AT-751360
TF-533CBL	AT-751361

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



**7 VIDEO REC CURRENT**

1. "REC" PAL color bar signal.
2. P402 (REC I.R.) & VR509 (CHROMA) VR507 (SP-Y), VR508 (LP-Y).
3. Set SP mode
4. Connect Oscilloscope to P402
5. Turn the VR507 (SP-Y) fully clockwise.
6. Adjust VR509 (CHROMA) so that chroma REC current becomes  $80 \pm 5$  mVp-p.
7. Adjust VR507 (SP-Y) so that Y REC current becomes  $1.7 \pm 0.1$  Vp-p at V.SYNC area.
8. Switch the tape speed to LP mode.
9. Connect Oscilloscope to P402
10. (REC I.R. LP)
11. Adjust VR508 (LP-Y) so that Y REC current becomes  $1.4 \pm 0.1$  Vp-p at V.SYNC area.

**5 CARRIER SET & DEVIATION**

1. "REC" PAL color bar signal.
2. TP506 (REC FM) & VR503 (CARRIER) VR502 (DEVIATION)
3. Connect Oscilloscope to TP506 (REC FM)
4. VR503 (CARRIER) ... 0.263  $\mu$ s (3.8 MHz)
5. VR502 (DEVIATION) ... 0.208  $\mu$ s (4.8 MHz)

**6 WHITE & DARK CLIP**

1. "REC" PAL color signal
2. TP502 (W/D CLIP) & VR505 (W. CLIP), VR504 (D. CLIP)
3. Connect Oscilloscope to TP502 (W/D CLIP)
4. VR505 (WHITE CLIP) ... 195%
5. VR504 (DARK CLIP) ... 50%

**8 REC PB VIDEO LEVEL**

1. "REC" -> "PB" PAL color bar signal.
2. P601 (V-OUT) & VR506 (PB LEVEL)
3. Connect Oscilloscope to P601 (V-OUT)
4.  $1.0 \pm 0.05$  Vp-p

**3 VIDEO E-E LEVEL**

1. "E-E" (Stop Mode) input PAL color bar signal.
2. P601 (V-OUT) & VR501 (EE-V)
3. Connect Oscilloscope to P601 (V-OUT)
4.  $1.0 \pm 0.05$  Vp-p

**2 PB SWITCHING POINT**

1. "PB" Test Tape TF-530RFS & TP531RFL
2. TP2 (SWP) P601 (V-OUT) & VR1 (SERVO/SYS CON PCB)
3. Connect Oscilloscope to TP2 (SWP) for trigger signal and connect to P601 (V-OUT)
4. Playback the Test Tape TF-530RFS
5. Adjust VR1 so that T becomes  $6.5 \pm 0.3$  H
6. Playback the Test Tape TF-531RFL
7. Confirm that T should be  $6.5 \pm 1.0$  H

**9 CCD**

1. "PB" Test Tape TF-532CBS
2. TP504 (CCD) & VR510 (CCD)
3. Connect Oscilloscope to TP504 (CCD)
4. Adjust VR510 so that CCD level becomes minimum.

**11 STILL VERTICAL STABILITY**

1. "PB" -> "PAUSE/STILL" (Test tape TF-533CBS)
2. TV screen & VR3 (SP), VR2 (LP)
3. In the PB/STILL mode, observe the TV screen and adjust VR3 (SP) until no picture vibration.
4. Set the Test tape to TF-533CBL.
5. Adjust VR2 (LP). In the same manner as above.

**1 IDL 5V**

1. STOP MODE
2. TP503, TP501 (GND) & VR1 (POWER SUPPLY PCB)
3. Connect DC Volt Meter to TP503 and TP501 (GND)
4.  $5.1 \pm 0.05$  V DC

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## 6-2. AUDIO ADJUSTMENT

Required following Test tapes.

Test tape	Parts No.
TF-527BL	AT-711880
TF-530RFS	AT-751775
TF-531RFL	AT-751359
TF-532CBS	AT-751360
TF-533CBL	AT-751361

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

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

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

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

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

## AUDIO/VIDEO PCB

## AUDIO OUT

## TP505

## TP501

## TP502

## TP503

## TP504

## TP505

## TP506

## TP507

## TP508

## TP509

## TP510

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## TP739

## TP740

## TP741

## TP742

## VII. PARTS LIST

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY  
Tel:- 01844-351694 Fax:- 01844-352554  
Email: enquiries@mauratron.co.uk

### ATTENTION

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

### HOW TO USE THIS PARTS LIST

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

#### 2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20X03STL CMT
4	ZS-536488	BID20X08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

#### 6. MAIN PC BOARD

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

Symbols for primary destination

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

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

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

### WARNING

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

### AVERTISSEMENT

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

## 1. RECOMMENDED SPARE PARTS

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

Ref. No.	Part No.	Description
1	BL-V1075A130A	PINCH ROLLER BLK VS-35EA
2	BM-373098	MOTOR DVX-67A2R2 [CAPSTAN MOTOR]
3	BM-367631	MOTOR PART [LOADING MOTOR][M901]
4	BM-M3225A010A	MOTOR SM-250 [DRUM MOTOR]
5	BR-367618	DISK(S)PART
6	BR-367619	DISK(T)PART
7	*BT-381371J	TRANS POW VS-77EK
8	BV-V1075A410B	LOWER DRUM BLK VS-930
9	BV-373936	RF CONVERTER MDLK3B063A EK,ES
10	BV-V1075A070A	S.LOADING LEADER BLK VS-35EA
11	BV-V1075A080A	T.U LOADING LEADER BLK VS-35EA
12	BV-V1075A205A	TW EJECTOR (2) BLK VS-35EA/TW [INCL. 1 TO 34]
13	BV-V1075A420E	UPPER DRUM BLK VS-75E
14	EC-347982	C S-FIX H VCT54E 4.5-20
15	ED-383287J	D LED EBG3665S-157 GREEN [DOLBY]
16	ED-373101	D LED LN59AK INFRARED [SENSOR PCB D1]
17	ED-384424J	D LED PR2533D RED
18	ED-376111	D LED SE303AC INFRARED
19	ED-383034J	D LED SLR-54PC3F L,M GREEN [VOL DOWN]
20	ED-360409	D PHOTO PN323B
21	*ED-357037	D SILICON DBA30B 100/3.0A
22	*ED-388452J	D SILICON DSA12T-KB4 F12
23	*ED-371398	D SILICON DSA17-FB8 F12
24	*ED-368949	D SILICON DS135D F10 200/1.0A
25	ED-717489	D SILICON H 1SS119
26	ED-307572	D SILICON H 1SS131
27	ED-624903	D SILICON H 1S2473
28	*ED-384315J	D SILICON RBV401 LF-B 100/4.0A
29	ED-347767	D SILICON V MC911 DOUBLE F05
30	ED-330622	D SILICON 1SR35A-100 100/1.0A
31	ED-382813J	D ZENER H HZS3B1 T26
32	ED-387762J	D ZENER H HZS36-3L F05
33	ED-381166J	D ZENER H HZS4A1 T26
34	ED-365699	D ZENER H HZS5.6B1J F05
35	ED-387783J	D ZENER H HZS6C3L F05
36	ED-387763J	D ZENER H HZS7B3L F05
37	ED-387820J	D ZENER H HZS9A2L F05
38	ED-346559	D ZENER H HZ12B2L
39	ED-330218	D ZENER H HZ15-2L
40	ED-346568	D ZENER H HZ16-3L
41	ED-307752	D ZENER H HZ6B2L
42	ED-346543	D ZENER H HZ9C1L
43	ED-381879J	DETECTOR AIQH3011HO
44	EE-371415	TV TUNER TEMB1-001A EK
45	*EF-359225	FUSE BET T 250V 3.15A
46	*EF-358974	FUSE BET T 250V 630MA
47	EH-371021	DL EFD-HR124A13J
48	EH-725827J	FILTER CE SAF32.9MDE70Z
49	EH-373917	FILTER CE SAF39.5MZ70Z
50	EH-725829J	FILTER CE SFT6.0MA
51	EH-705502	FILTER CE TPS 6.0MB
52	EH-380185J	FILTER EMI ZBF503S-01
53	EH-366690	FILTER LC BP BPF-14M 1.40MHZ
54	EH-366691	FILTER LC BP BPF-18M 1.80MHZ
55	EH-382829J	FILTER LC BP TH316BQM-2110QDAF
56	EH-364045	FILTER LC FF-78P
57	EH-367892	FILTER LC LP FXN221Q
58	EH-373144	FILTER LC LP LF-69P-02 5P
59	EH-368821	FILTER LC LP MYV-23R
60	EH-366694	FILTER LC LP TRP-P
61	EI-380085J	IC AN3231K
62	EI-381856J	IC AN3920K
63	EI-381855J	IC AN3929K

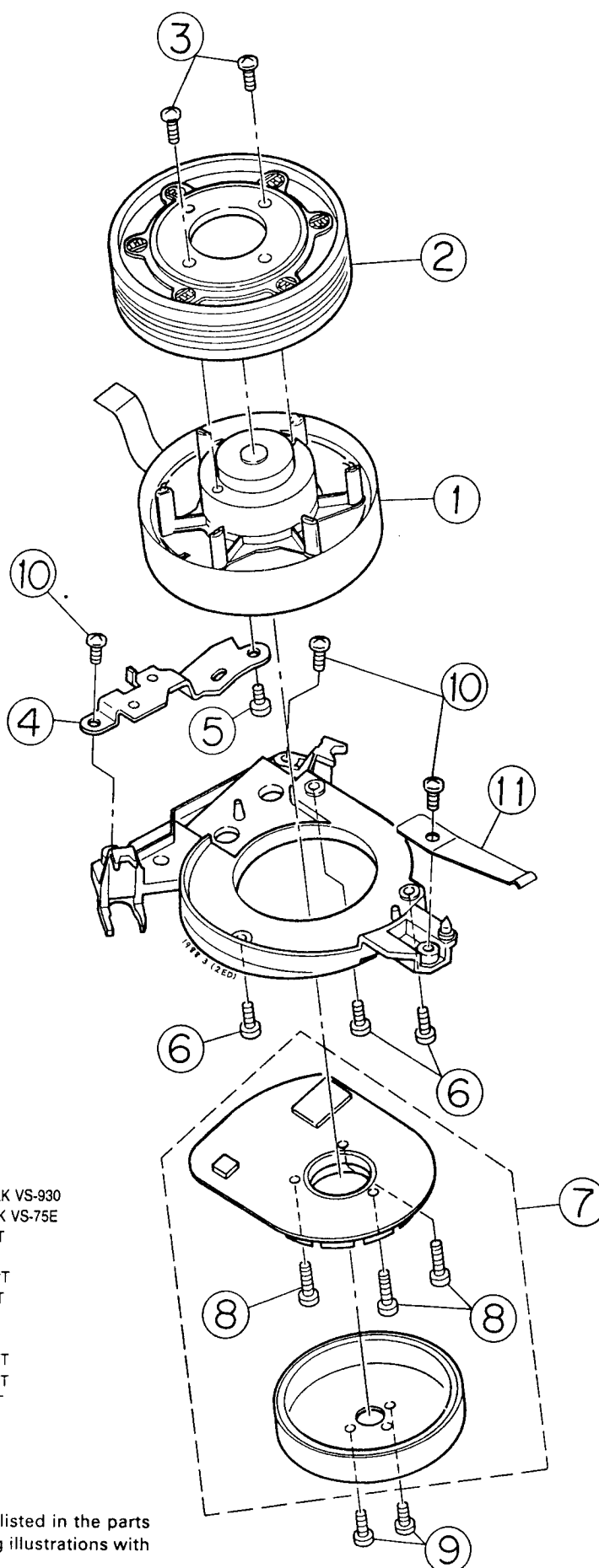
Ref. No.	Part No.	Description
64	EI-381854J	IC AN3971K
65	EI-367572	IC BA15218
66	EI-364896	IC BA6138
67	EI-353421	IC BA6229
68	EI-368549	IC BA6405
69	EI-383485J	IC BU2753 S
70	EI-354640	IC BU4052B
71	EI-380199J	IC BU4066BL
72	EI-381890J	IC CXK1008L
73	EI-377094	IC CXK5864ASP-10L
74	EI-367909	IC HA118019NT
75	EI-381853J	IC HA12121 NT
76	EI-381858J	IC LA7296
77	EI-370835	IC LA7530N
78	EI-386847J	IC LH5164L-15
79	*EI-381838J	IC LM1875T
80	EI-382824J	IC LP15C7B2
81	EI-381849J	IC MB88505H-662M LHXAUD1
82	EI-381836J	IC MN3008
83	EI-360228	IC MN3101
84	EI-373966	IC MSM6965-3RS
85	EI-381631J	IC M50455-084SP
86	EI-386702J	IC M50743-101SP LHX REM2
87	EI-346071	IC M5218L-21
88	EI-364888	IC M5223L
89	EI-359552	IC M5236L
90	EI-381859J	IC M5241L
91	EI-366038	IC NE645N
92	EI-360396	IC S-8054HN
93	EI-373955	IC S8053ALR
94	EI-358842	IC TA7347P
95	EI-381894J	IC TA76
96	EI-373023	IC TA8632N
97	EI-382827J	IC TA8662N
98	EI-304657	IC TC4011BP
99	EI-332259	IC TC4052BP
100	EI-200573	IC TC4053BP
101	EI-332203	IC TC4528BP
102	EI-382828J	IC TC6011N
103	EI-351966	IC TC9176P
104	EI-382826J	IC TD6710AN
105	EI-367910	IC UPC1531HA
106	EI-381891J	IC UPC393HA
107	EI-337530	IC UPC574J
108	EI-381847J	IC UPD75104CW-132 LHXSYP1
109	EI-381887J	IC UPD75216ACW-115 LHXP0E2
110	EI-382835J	OSC CE CSA16.93MX 16.930MHZ
111	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
112	EI-377540J	OSC CE CST8.00MT 8.000MHZ
113	EI-368825	OSC X'TAL MX-38T 32.768KHZ
114	EI-382833J	OSC X'TAL NR-18 5.824MHZ
115	EI-382831J	OSC X'TAL NR-18 6.552MHZ
116	EI-309878	OSC X'TAL 4.433619MHZ
117	EM-381897J	IND FL BG524GK
118	*EO-382881J	COIL LF LF-4N 102
119	EO-367891	COIL OSC 1 S033345(MZ-002)
120	EQ-359532	RELAY POW G5R2282P DC12V
121	ES-373099	SW LEAF MTS10110MPC1 [REC SAFETY SW][SW1]
122	ES-381310J	SW MODE SELECTOR D2ZQ-S2-2 [MODE SELECTOR]
123	*ES-343367	SW SLIDE HSW 0700-30 1-01-02N [VOLTAGE SELECTOR]
124	ES-373973	SW SLIDE HSW0810-010 1-01-02S [FRONT-REAR SW]
125	ES-381882J	SW SLIDE SSSS91 L=4 1-01-03 [CH PRE-SET]
126	ES-349474	SW TACT SKHHAM004A [SYSTEM RESET]
127	ES-385174J	SW TACT SKHHBV
128	ET-361463	DETECTOR ON2170 Q,R [SENSOR PCB PH1]
129	ET-724692J	TR CHIP RT1N441C
130	ET-724691J	TR CHIP 2SA1235 F
131	ET-725820J	TR CHIP 2SC2735J
132	ET-713615	TR CHIP 2SC3052 E,F
133	ET-356336	TR DTA114ES
134	ET-360646	TR DTA143ES



Ref. No.	Part No.	Description
135	ET-354415	TR DTA144ES
136	ET-373985	TR DTA144TS
137	ET-376869	TR DTB114ES
138	ET-353897	TR DTC114ES
139	ET-354371	TR DTC124ES
140	ET-375986	TR DTC124TS
141	ET-364060	TR DTC143ES
142	ET-354414	TR DTC144ES
143	ET-353734	TR FET 2SJ103 GR,BL
144	ET-337759	TR FET 2SK246 GR
145	ET-361490	TR PHOTO PN268 R,S
146	ET-376866	TR UN4117 R
147	ET-308472	TR 2SA1115 E,F,G F05
148	ET-356224	TR 2SA1286 G,H,J F05
149	ET-353899	TR 2SA1317 S,T,U
150	ET-352726	TR 2SA1392 T,U
151	ET-337760	TR 2SA984K F
152	*ET-382106J	TR 2SB945 P,Q
153	ET-302502	TR 2SC2001 K
154	ET-308141	TR 2SC2603 G F05
155	ET-375777	TR 2SC2926S P,Q
156	ET-355669	TR 2SC3246 G,H,J F05
157	*ET-364153	TR 2SC3246 J,K F05
158	*ET-376818	TR 2SC3247 H,J,K
159	ET-368084	TR 2SC3315 D
160	ET-360067	TR 2SC3330 T,U F05
161	ET-360137	TR 2SC3330 U,V F05
162	ET-349608	TR 2SC3383 T,U
163	ET-347961	TR 2SD1012-V G F05
164	*ET-348948	TR 2SD1273 P,Q
165	*ET-380685J	TR 2SD1761 E,F,G
166	*ET-381175J	TR 2SD1856
167	*ET-373025	TR 2SD1944 J1,J2,K
168	EV-381876J	VR ROTARY RK09K1130 B103 [PICTURE CONTROL]
169	EV-381877J	VR ROTARY RK09K1130 B202 [HEADPHONE LEVEL CONTROL]
170	EV-373958	VR ROTARY RK09K1130 B203 [INPUT BALANCE]
171	EV-381878J	VR SLIDE RS30B223J A502X2 [REC LEVEL CONTROL]
172	*EX-330533	POSISTOR PTH61G27BD3R3N
173	HE-361456	HEAD E HVFMD0005B [FULL ERASE HEAD]
174	HR-387805J	HEAD COMBO HXMZA 1031A [AUDIO/CONTROL HEAD]
175	MB-373080	BELT IDLER
176	MB-373096	BELT LOADING
177	ML-373075	ARM LOADING BRAKE
178	ML-367614	ARM MAIN BRAKE(S)PART
179	ML-367616	ARM MAIN BRAKE(TU)PART
180	ML-367617	ARM REVIEW BRAKE PART
181	ML-373043	CLUTCH BLK
182	ML-500881	LEVER TENSION BAND PART
183	MZ-500717T	GEAR CAM CENTER
184	MZ-368797T	GEAR CAM JOINT
185	MZ-383608J	GEAR CAM TENSION(2)
186	MZ-500715T	GEAR FL DRIVE
187	MZ-V1075A090A	GEAR TOGGLE (S) BLK VS-35EA
188	MZ-V1075A100A	GEAR TOGGLE (TU) BLK VS-35EA
189	MZ-383607J	GEAR WHEEL(2)
190	MZ-383605J	GEAR WORM(2) PART
191	MZ-368794T	GEAR(S)
192	MZ-368795T1	GEAR(T)
193	VT-367622J1	GUIDE ROLLER PART

**For Service Manuals Contact**  
**MAURITRON TECHNICAL SERVICES**  
 8 Cherry Tree Rd, Chinnor  
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 Email:- enquiries@mauritron.co.uk

## HEAD DRUM BLOCK



## 2. HEAD DRUM BLOCK

Ref. No.	Part No.	Description
1	BV-V1075A410B	LOWER DRUM BLK VS-930
2	BV-V1075A420E	UPPER DRUM BLK VS-75E
3	ZS-321298	BID30X08STL CMT
4	VT-373884J1	PLATE EARTH
5	ZS-479474	PAN26X05STL CMT
6	ZS-563444	BID26X08STL CMT
7	BM-M3225A010A	MOTOR SM-250 [DRUM MOTOR]
8	ZS-467796	PAN26X12STL CMT
9	ZS-479474	PAN26X05STL CMT
10	ZS-413785	BID30X12STL CMT
11	ZG-382137J	SP PLATE EARTH

### NOTE:

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

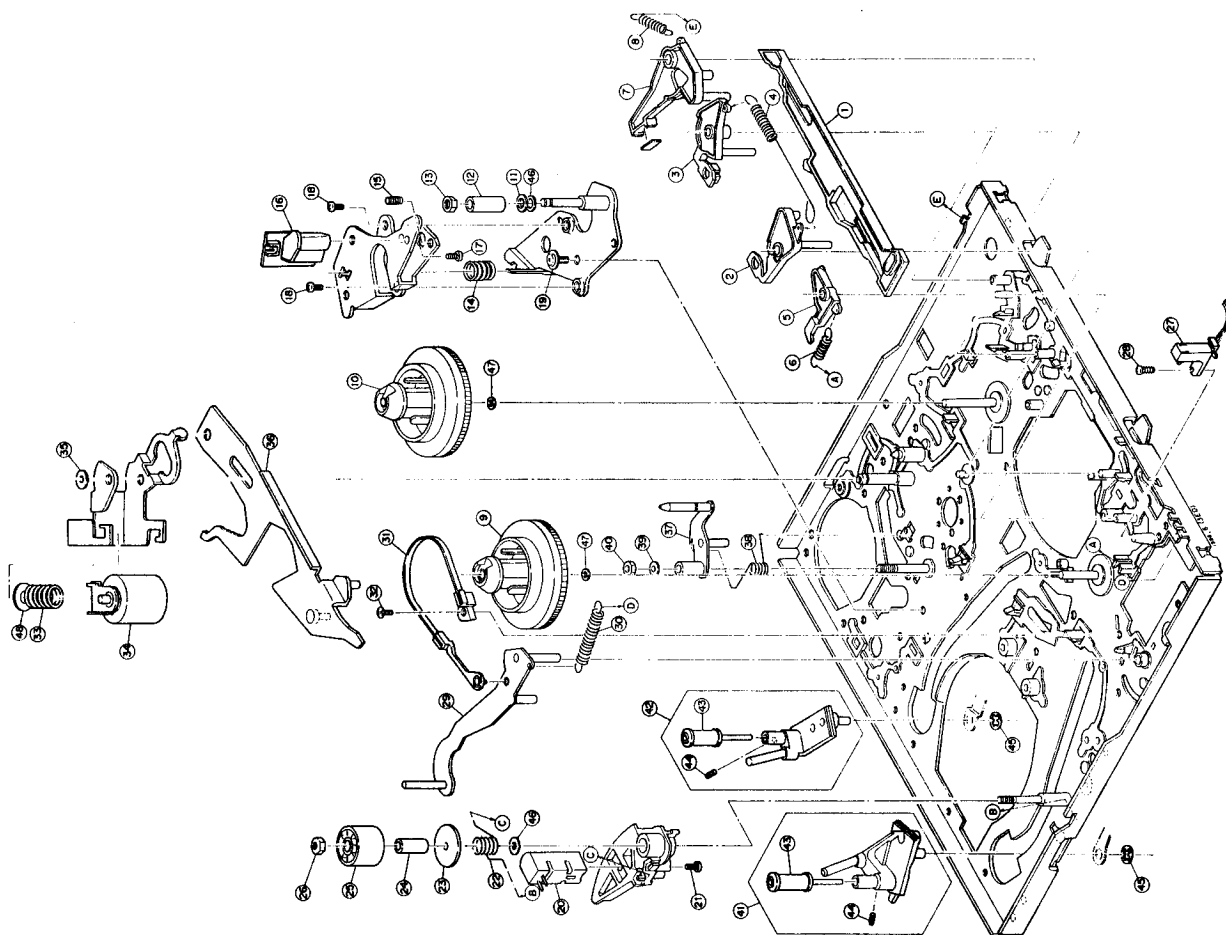
# MECHA BLOCK (1)

## 3. MECHA BLOCK (1)

Ref. No.	Part No.	Description
1	MZ-373079	SLIDER BRAKE
2	ML-367614	ARM MAIN BRAKE(PART
3	ML-367616	ARM MAIN BRAKE(TUPART
4	ZG-373548	SP PULL MAIN BRAKE
5	ML-372075	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-372186J1	GUIDE TAPE(6)
13	ZW-358045	N30STL CMT 3
14	ZG-500782	SP PUSH A/C
15	ZG-373900	6SET30X086SCM PKR CP
16	HR-387605J	HEAD COMBO HXMA 1031A
17	ZS-373899	[AUDIO/CONTROL HEAD]
18	ZS-321288	PAN20X2.5STL BDY PSI
19	ZS-373896	DT BID30X08STL CMT PW080
20	HE-361456	HEAD E-HVFM0005B
21	ZS-464703	[FULL ERASE HEAD]
22	ZG-374022	BID20X08STL CMT
23	ZW-373086	SP TORSION ARM FE
24	ZW-373089	FLANGE Z
25	MR-373087	SPACER
26	ZW-350839	ROLLER Z
27	ES-373099	N30 NYLON
28	ZS-321288	SW LEAF MTS10110MPC1
29	BL-367620-A	[REC SAFETY SW][SW1]
30	ZG-373539	BID30X08STL CMT
31	ML-500881	ARM TENSION PART
32	ZS-373532	SP PULL TENSION
33	ZG-382153J	LEVER TENSION BAND PART
34	BL-V1075A130A	DT BID30X08STL CMT C080
35	ZW-373898	SP PUSH P
36	BL-500879T1	PINCH ROLLER BLK VS-35EA
37	BL-368475	SUT W31X07X050PSL
38	ZG-373530	PLATE P SLIDER PART
39	ZW-324417	ARM REVIEW GUIDE PART
40	ZW-350839	SP TORSION REVIEW ARM
41	BY-V1075A070A	PNK1X08X050PSL
42	BY-V1075A080A	N30 NYLON
43	VT-367622J1	SLOADING LEADER BLK VS-35EA
44	ZS-374458	TU LOADING LEADER BLK VS-35EA
45	ZW-332843	GUIDE ROLLER PART
46	ZW-287458	6SET20X030SCM PKR FP
47	ZW-324417	RETAINING RING GRIP 380STL ACP
48	ZW-282770	PW33X08X030BHS N3
		PW31X08X050PSL
		PW41X100X050STL CMT

### NOTE:

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



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 Email: eriquines@mauratron.co.uk

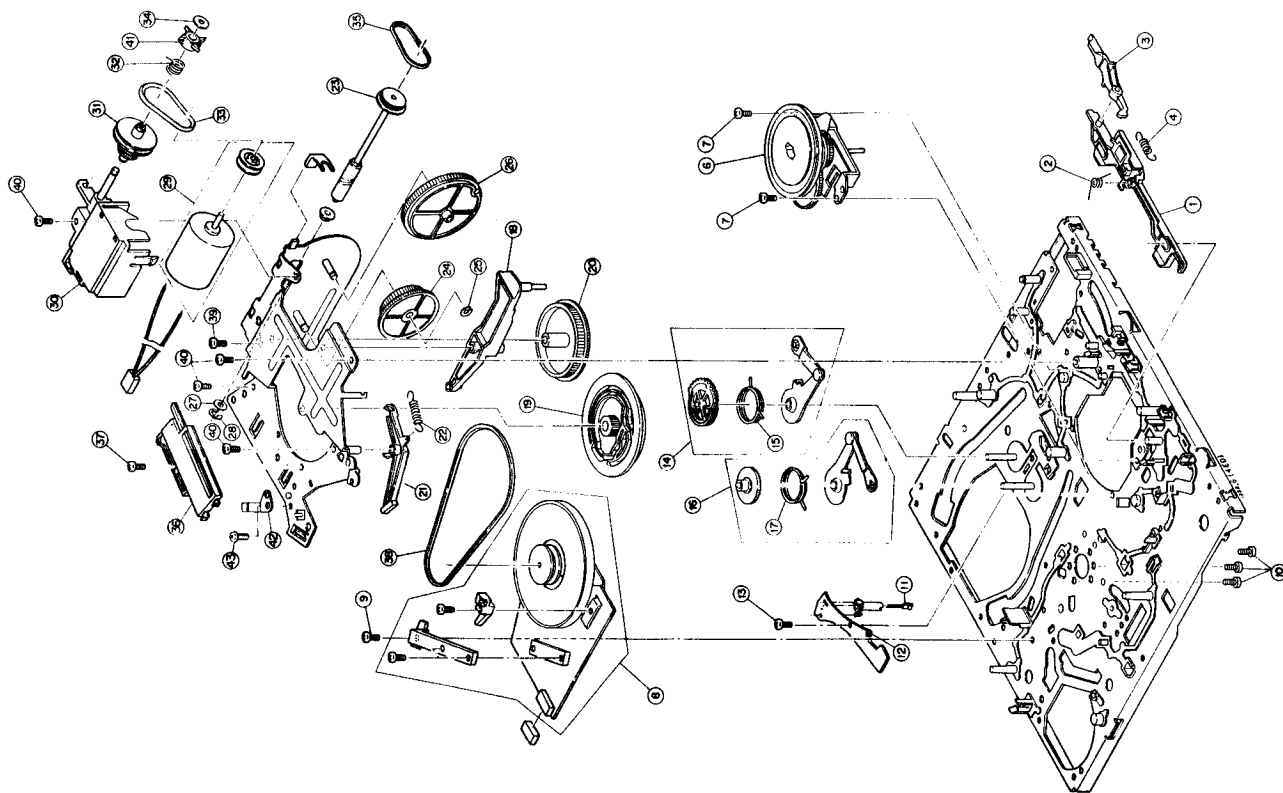
# MECHA BLOCK (2)

## 4. MECHA BLOCK (2)

Ref. No.	Part No.	Description
1	ML-373028	SLIDER FR
2	ZG-373884	SP TORSION SLIDER
3	ML-373036	LEVER F/R HOOK
4	ZG-373036	SP PULL HOOK
6	ML-373043	CLUTCH BLK
7	ZS-373895	DT BID26X08STL CMT
8	BM-373098	MOTOR DVX-87A/R2
9	ZS-373895	[CAPSTAN MOTOR]
10	ZS-419782	DT BID26X08STL CMT
11	ED-373101	D LED LNS9AK INFRARED
12	ET-361463	[SENSOR PCB D1]
13	ZS-368900	DETECTOR ON2170 Q.R
14	MZ-V1075A090A	[SENSOR PCB PH1]
15	ZG-373542	PAN30X08STL CMT TW
16	ZG-373542	GEAR TOGGLE (S) BLK VS-3SEA
17	MZ-V1075A100A	SP TORSION GEAR TOGGLE(S)
18	ML-367625	GEAR TOGGLE (T) BLK VS-3SEA
19	MZ-5007171	SP TORSION GEAR TOGGLE(TU)
20	MZ-369068J	LEVER CAM SLIDER PART
21	BL-367627	GEAR CAM CENTER
22	ZG-373546	GEAR CAM TENSION(2)
23	MZ-369065J	ARM FW BRAKE PART
24	ZW-373898	GEAR WORM(2) PART
25	MZ-500715T	GEAR WHEEL(2)
26	ZW-382673J	SLIT W31X070X060PSL
27	ZW-357164	GEAR FL DRIVE
28	BM-367631	PW31X070X060PSL
29	SP-5008877-A	RING E 208SUP CMT
30	MR-369066J	MOTOR PART
31	ZG-373046J	[LOADING MOTOR(M801)]
32	MB-373096	HOUSING MOTOR PART
33	ZW-373901	PULLEY BELT LOADING(2)
34	MB-365758J	SP TORSION TRIGGER
35	ES-361310J	BELT LOADING
36	ZS-373895	SLIT W22X070X060PSL
37	MB-373060	BELT SYNC 60TN10.2.0T
38	ZS-363444	SW MODE SELECTOR 02Z0-S2-2
39	MZ-373897	[MODE SELECTOR]
40	MZ-373897	DT BID26X08STL CMT
41	ZG-373097	BELT IDLER
42	ZS-373895	DT BID26X08STL CMT
43	ZS-373895	PLX BID26X10STL CMT
		RING TRIGGER(2)
		EARTH BRUSH PART
		DT BID26X08STL CMT

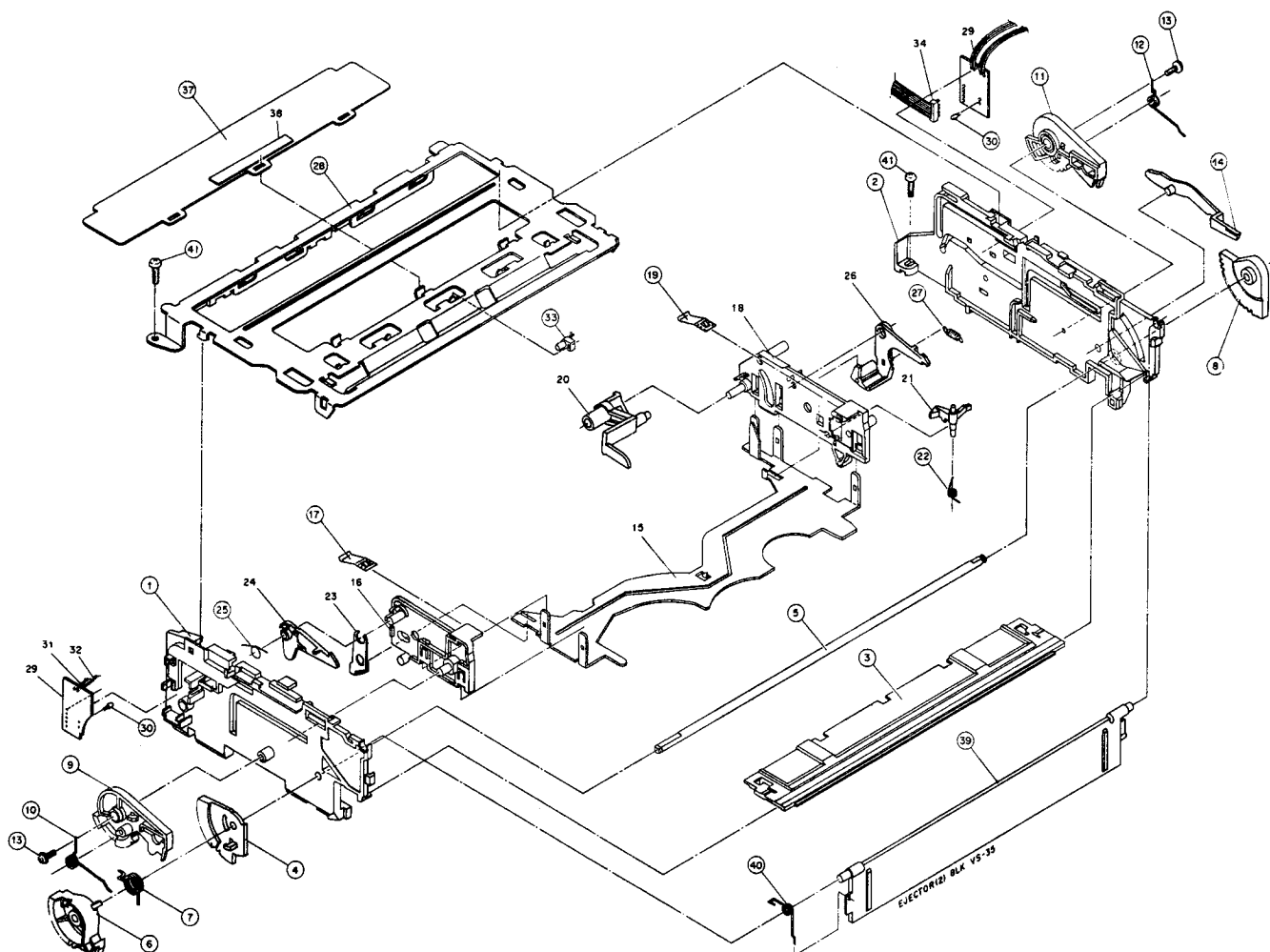
NOTE:  
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
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Tel: 01844-351694 Fax: 01844-352554  
Email: enquiries@mauratron.co.uk



## EJECTOR BLOCK

For Service Manuals Contact  
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 Oxon OX9 4QY  
 Tel:- 01844-351694 Fax:- 01844-352554  
 Email:- enquiries@mauritron.co.uk



### 5. EJECTOR BLOCK

Ref. No.	Part No.	Description
1	MZ-368790T1	HOUSING(S)
2	MZ-368791T2	HOUSING(T)
3	SZ-375956T	GUID F
4	MZ-368794T	GEAR(S)
5	MS-368798T	SHAFT LOADING
6	MZ-368797T	GEAR CAM JOINT
7	ZG-375953T	SP TORSION JOINT
8	MZ-368795T1	GEAR(T)
9	ML-368792T	ARM LOADING(S)
10	ZG-375954T	SP TORSION LOADING(S)
11	ML-368793T	ARM LOADING(T)
12	ZG-375955T	SP TORSION LOADING(T)
13	ZS-368524	PLX BID26X10STL CMT C072
14	ML-500730T	ARM LID OPENER
17	ZG-382450T	SP PLATE HOLDER(2)
19	ZG-382450T	SP PLATE HOLDER(2)
22	ZG-375959T	SP TORSION RELEASE
25	ZG-375957T1	SP TORSION DAMPER
27	ZG-375958T	SP PULL DAMPER
28	MA-368799T	CHASSIS UPPER

Ref. No.	Part No.	Description
30	ET-361490	TR PHOTO PN268 R,S
33	EL-373102	PL CORD 5.0V 115MA 230/230
37	SE-368476T1	PLATE MIRROR U
39	SE-383245J	MASK CASSETTE VS-A77EK
40	ZG-500767	SP TORSION MASK
41	ZS-378341	PLX BID30X12STL CMT
42	BV-V1075A240A	TW HOLDER CASSETTE BLK -35EA/TW [INCL. 15 TO 27]
43	BV-V1075A205A	TW EJECTOR (2) BLK VS-35EA/TW [INCL. 1 TO 34]

#### NOTE:

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

## 6. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1	BA-V1086D605D	PC AUDIO/VIDEO BLK VS-A77EK
2	BA-V1086D680D	PC CHROMA BLK VS-A77EK
3	BA-V1086D640H	PC SERVO/SYSCON BLK VS-A77EK
4	BA-V1086D510B	PC( # ) POWER 2 BLK VS-A77EK
5	BA-V1086D615B	PC OPERATION A BLK VS-A77EK
6	BA-V1086D620C	PC OPERATION B BLK VS-A77EA
7	BA-V1086A700B	RF FINAL BLK VS-A77EK
8	BA-V1086D650F	PC( # ) SUR./AMP BLK VS-A77EOH
9	BA-V1086D710A	PC NICAM BLK VS-A77EK

PC AUDIO/VIDEO BLK CONSISTS OF FOLLOWING P.C BOARD.

- \* AUDIO/VIDEO P.C BOARD
- \* CHROMA P.C BOARD

PC SERVO/SYSCON BLK CONSISTS OF FOLLOWING P.C BOARD.

- \* SERVO/SYSCON P.C BOARD
- \* SERVO LOCK P.C BOARD

PC ( # ) POWER 2 BLK CONSISTS OF FOLLOWING P.C BOARD.

- \* POWER SUPPLY P.C BOARD
- \* POWER P.C BOARD
- \* TR P.C BOARD

PC OPERATION B BLK CONSISTS OF FOLLOWING P.C BOARD.

- \* OPERATION (B) P.C BOARD
- \* OPERATION (C) P.C BOARD

PC SUR./AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- \* SURROUND P.C BOARD
- \* MAIN AMP P.C BOARD

## 7. AUDIO/VIDEO P.C BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D3	ED-624903	D SILICON H 1S2473
D7	ED-307572	D SILICON H 1SS131
D8	ED-624903	D SILICON H 1S2473
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D501	ED-624903	D SILICON H 1S2473
D502	ED-307572	D SILICON H 1SS131
D503	ED-307572	D SILICON H 1SS131
D504	ED-307572	D SILICON H 1SS131
D507	ED-307572	D SILICON H 1SS131
D508	ED-387820J	D ZENER H HZS9A2L F05
D510	ED-307572	D SILICON H 1SS131
D511	ED-624903	D SILICON H 1S2473
FL1	EH-367892	FILTER LC LP FXN221Q
FL2	EH-367892	FILTER LC LP FXN221Q
FL3	EH-366690	FILTER LC BP BPF-14M 1.40MHZ
FL4	EH-366691	FILTER LC BP BPF-18M 1.80MHZ
FL5	EO-367891	COIL OSC 1 S033345(MZ-002)
FL6	EH-366694	FILTER LC LP TRP-P
FL501	EH-373144	FILTER LC LP LF-69P-02 5P
FL502	EH-368821	FILTER LC LP MYV-23R
IB501	EH-383056J	COMP R RGL4X 103J
IC1	EI-381853J	IC HA12121 NT
IC2	EI-346071	IC M5218L-21
IC3	EI-381854J	IC AN3971K
IC4	EI-381855J	IC AN3929K
IC5	EI-381856J	IC AN3920K
IC6	EI-381858J	IC LA7296
IC7	EI-364896	IC BA6138
IC8	EI-346071	IC M5218L-21
IC501	EI-380085J	IC AN3231K
IC502	EI-373966	IC MSM6965-3RS
IC503	EI-381631J	IC M50455-084SP
IC504	EI-358842	IC TA7347P
L1	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L2	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L3	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L4	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L5	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L6	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L7	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L8	EO-357507	COIL FIX 1 LAL02 F05 121K
L9	EO-382619J	COIL FIX 1 EL0607SKI F05 472J
L10	EO-382618J	COIL FIX 1 FL07H 272K
L11	EO-354600	COIL FIX 1 LAL02 F05 101K
L12	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L501	EO-345881	COIL FIX 1 EL0606SKI 101J
L502	EO-345881	COIL FIX 1 EL0606SKI 101J
L503	EO-345881	COIL FIX 1 EL0606SKI 101J
L504	EO-357509	COIL FIX 1 LAL02 F05 181K
L505	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L506	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L508	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L509	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L510	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L511	EO-360554	COIL FIX 1 LAL02 F05 221K
L512	EO-353902	COIL FIX 1 LAL02 F05 680K
L513	EO-353900	COIL FIX 1 LAL02 F05 150K
L514	EO-345876	COIL FIX 1 EL0606SKI 470J
L515	EO-345881	COIL FIX 1 EL0606SKI 101J
L516	EO-345881	COIL FIX 1 EL0606SKI 101J
L517	EO-357508	COIL FIX 1 LAL02 F05 151K
L518	EO-373260	COIL FIX 1 LAL02 F05 1R0M
L519	EO-360554	COIL FIX 1 LAL02 F05 221K
PJ1	EJ-381864J	PIN J JPJ1025-01-020 RED 1P [AUDIO IN R-CH]
PJ2	EJ-381865J	PIN J JPJ1025-01-030 WHITE 1P [AUDIO IN L-CH]
PJ3	EJ-381862J	PIN J JPJ2025-01-020 RED 1P [AUDIO OUT R-CH]
PJ4	EJ-381863J	PIN J JPJ2025-01-030 WHITE 1P [AUDIO OUT L-CH]
P301	EJ-381861J	PLUG 174161-6 6P [VS-A77 ONLY]

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 Tel:- 01844-351694 Fax:- 01844-352554  
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Ref. No.	Part No.	Description
P302	EJ-381861J	PLUG 174161-6 6P [VS-A77 ONLY]
P303	EJ-381872J	PLUG 174161-9 9P
P304	EJ-381872J	PLUG 174161-9 9P
P305	EJ-381872J	PLUG 174161-9 9P
SW501	ES-373973	SW SLIDE HSW0810-010 1-01-02S [VIDEO MODE SELECTOR]
TR3	ET-353897	TR DTC114ES
TR4	ET-353897	TR DTC114ES
TR5	ET-354414	TR DTC144ES
TR6	ET-354414	TR DTC144ES
TR7	ET-349608	TR 2SC3383 T,U
TR8	ET-349608	TR 2SC3383 T,U
TR9	ET-354415	TR DTA144ES
TR10	ET-354414	TR DTC144ES
TR11	ET-354414	TR DTC144ES
TR12	ET-360137	TR 2SC3330 U,V F05
TR13	ET-360137	TR 2SC3330 U,V F05
TR14	ET-360137	TR 2SC3330 U,V F05
TR15	ET-360137	TR 2SC3330 U,V F05
TR16	ET-353899	TR 2SA1317 S,T,U
TR17	ET-360137	TR 2SC3330 U,V F05
TR18	ET-360137	TR 2SC3330 U,V F05
TR19	ET-360137	TR 2SC3330 U,V F05
TR20	ET-354415	TR DTA144ES
TR21	ET-354414	TR DTC144ES
TR22	ET-354414	TR DTC144ES
TR24	ET-353734	TR FET 2SJ103 GR,BL
TR25	ET-353734	TR FET 2SJ103 GR,BL
TR26	ET-353734	TR FET 2SJ103 GR,BL
TR28	ET-375986	TR DTC124TS
TR29	ET-375986	TR DTC124TS
TR30	ET-360067	TR 2SC3330 T,U F05
TR502	ET-354414	TR DTC144ES
TR503	ET-353899	TR 2SA1317 S,T,U
TR504	ET-360067	TR 2SC3330 T,U F05
TR506	ET-360067	TR 2SC3330 T,U F05
TR507	ET-353899	TR 2SA1317 S,T,U
TR508	ET-360067	TR 2SC3330 T,U F05
TR509	ET-353899	TR 2SA1317 S,T,U
TR510	ET-354414	TR DTC144ES
TR512	ET-360067	TR 2SC3330 T,U F05
TR513	ET-360067	TR 2SC3330 T,U F05
TR514	ET-360067	TR 2SC3330 T,U F05
TR515	ET-354414	TR DTC144ES
TR516	ET-360067	TR 2SC3330 T,U F05
TR517	ET-360067	TR 2SC3330 T,U F05
TR518	ET-356224	TR 2SA1286 G,H,J F05
TR519	ET-356224	TR 2SA1286 G,H,J F05
TR520	ET-356336	TR DTA114ES
TR521	ET-376869	TR DTB114ES
TR522	ET-360067	TR 2SC3330 T,U F05
TR523	ET-353899	TR 2SA1317 S,T,U
TR524	ET-360067	TR 2SC3330 T,U F05
TR525	ET-354414	TR DTC144ES
TR526	ET-353899	TR 2SA1317 S,T,U
TR529	ET-354414	TR DTC144ES
TR530	ET-360067	TR 2SC3330 T,U F05
VR1	EV-358829	R S-FIX H RH0615C 0.10W 223
VR2	EV-358829	R S-FIX H RH0615C 0.10W 223
VR3	EV-356576	R S-FIX H RH0615C 0.10W 472
VR4	EV-356576	R S-FIX H RH0615C 0.10W 472
VR5	EV-362128	R S-FIX H RH0615C 0.10W 152
VR6	EV-362128	R S-FIX H RH0615C 0.10W 152
VR7	EV-356576	R S-FIX H RH0615C 0.10W 472
VR8	EV-363157	R S-FIX H RH0615C 0.10W 333
VR9	EV-362115	R S-FIX H RH0615C 0.10W 153
VR10	EV-362115	R S-FIX H RH0615C 0.10W 153
VR11	EV-356577	R S-FIX H RH0615C 0.10W 103
VR12	EV-356582	R S-FIX H RH0615C 0.10W 473
VR13	EV-356582	R S-FIX H RH0615C 0.10W 473
VR14	EV-356582	R S-FIX H RH0615C 0.10W 473
VR501	EV-358829	R S-FIX H RH0615C 0.10W 223
VR502	EV-356576	R S-FIX H RH0615C 0.10W 472
VR503	EV-368112	R S-FIX H KVSF687A 0.30W 103
VR504	EV-358829	R S-FIX H RH0615C 0.10W 223
VR505	EV-380253J	R S-FIX H KVSF687A 0.30W 223
VR506	EV-358829	R S-FIX H RH0615C 0.10W 223

Ref. No.	Part No.	Description
VR507	EV-356579	R S-FIX H RH0615C 0.10W 102
VR508	EV-356576	R S-FIX H RH0615C 0.10W 472
VR509	EV-356583	R S-FIX H RH0615C 0.10W 332
VR510	EV-356577	R S-FIX H RH0615C 0.10W 103
VR511	EV-356583	R S-FIX H RH0615C 0.10W 332

## 8. CHROMA P.C BOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-382813J	D ZENER H HZS3B1 T26
DL1	EH-371021	DL EFD-HR124A13J
FL1	EH-364045	FILTER LC FF-78P
IC1	EI-373023	IC TA8632N
L1	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L3	EO-345893	COIL FIX 1 EL0606SKI 471J
L4	EO-345889	COIL FIX 1 EL0606SKI 331J
L5	EO-345869	COIL FIX 1 EL0606SKI 150J
L6	EO-376610	COIL FIX 1 LF-5.0S F05 330K
L7	EO-376599	COIL FIX 1 LF-5.0S F05 100K
L8	EO-345871	COIL FIX 1 EL0606SKI 180J
L9	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L10	EO-330244	COIL FIX 1 EL0606SKI 2R2K
L13	EO-376611	COIL FIX 1 LF-5.0S F05 470K
P303	EJ-381842J	SOCKET 174074-9 9P
P304	EJ-381842J	SOCKET 174074-9 9P
P305	EJ-381842J	SOCKET 174074-9 9P
P601	EJ-382008J	SOCKET HXC1510-01-300 21P [VIDEO/AUDIO IN/OUT]
TR1	ET-360067	TR 2SC3330 T,U F05
TR2	ET-360067	TR 2SC3330 T,U F05
TR5	ET-360067	TR 2SC3330 T,U F05
TR6	ET-360067	TR 2SC3330 T,U F05
TR7	ET-353899	TR 2SA1317 S,T,U
TR8	ET-360067	TR 2SC3330 T,U F05
TR9	ET-360067	TR 2SC3330 T,U F05
TR10	ET-360067	TR 2SC3330 T,U F05
TR11	ET-368084	TR 2SC3315 D
TR12	ET-360067	TR 2SC3330 T,U F05
VR1	EV-368340	R S-FIX H KVSF687A 0.30W 104
X1	EI-309878	OSC X'TAL 4.433619MHZ

## 9. SERVO/SYSCON P.C BOARD

Ref. No.	Part No.	Description
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
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-307572	D SILICON H 1SS131
D8	ED-307572	D SILICON H 1SS131
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D11	ED-330622	D SILICON 1SR35A-100 100/1.0A
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-624903	D SILICON H 1S2473
D18	ED-365699	D ZENER H HZS5.6B1J F05
D19	ED-307572	D SILICON H 1SS131
D20	ED-307572	D SILICON H 1SS131
D21	ED-307752	D ZENER H HZ6B2L
D22	ED-307572	D SILICON H 1SS131
D23	ED-307572	D SILICON H 1SS131
D24	ED-307572	D SILICON H 1SS131
IB1	EH-359185	COMP R RKC1/8B8 103J
IC1	EI-381847J	IC UPD75104CW-132 LHXSYP1
IC2	EI-381849J	IC MB88505H-662M LHXAUD1
IC3	EI-383485J	IC BU2753 S
IC4	EI-368549	IC BA6405
IC5	EI-367572	IC BA15218
IC6	EI-353421	IC BA6229
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
L2	EO-345881	COIL FIX 1 EL0606SKI 101J
R105	*ER-336756	R OMF H FS 1W R47J
R125	*ER-366896	R OMF H S12 FS 1W 2R2J
TR1	ET-354414	TR DTC144ES
TR2	ET-356224	TR 2SA1286 G,H,J F05
TR3	ET-360646	TR DTA143ES
TR4	ET-360646	TR DTA143ES
TR5	ET-360646	TR DTA143ES
TR7	ET-360646	TR DTA143ES
TR8	ET-360646	TR DTA143ES
TR9	ET-354414	TR DTC144ES
TR10	ET-354414	TR DTC144ES
TR11	ET-360067	TR 2SC3330 T,U F05
TR12	ET-354414	TR DTC144ES
TR13	ET-354371	TR DTC124ES
TR14	ET-354414	TR DTC144ES
TR15	ET-354414	TR DTC144ES
TR16	ET-376866	TR UN4117 R
TR17	ET-376866	TR UN4117 R
TR18	ET-373985	TR DTA144TS
TR19	ET-373985	TR DTA144TS
TR20	ET-353899	TR 2SA1317 S,T,U
TR21	ET-354414	TR DTC144ES
TR22	ET-373985	TR DTA144TS
TR23	ET-380685J	TR 2SD1761 E,F,G
TR50	ET-353899	TR 2SA1317 S,T,U
TR51	ET-353899	TR 2SA1317 S,T,U
TR52	ET-354414	TR DTC144ES
TR53	ET-354414	TR DTC144ES
TR54	ET-354414	TR DTC144ES
TR55	ET-354414	TR DTC144ES
VR1	EV-378325	R S-FIX H KVSF687A 0.30W 473
VR2	EV-374014	R S-FIX EVTK-8C 0.20W 104
VR3	EV-374014	R S-FIX EVTK-8C 0.20W 104
X1	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ
X2	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ

## 10. SERVO LOCK P.C BOARD

Ref. No.	Part No.	Description
TR24	ET-354415	TR DTA144ES
TR25	ET-360067	TR 2SC3330 T,U F05

For Service Manuals Contact  
MAURITRON TECHNICAL SERVICES  
8 Cherry Tree Rd, Chinnor  
Oxon OX9 4QY

## 11. PRE-AMP P.C BOARD

Tel:- 01844-351694 Fax:- 01844-352554  
Email:- enquiries@mauritron.co.uk

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
IC1	EI-367909	IC HA118019NT
IC2	EI-367910	IC UPC1531HA
L1	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L2	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L3	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L4	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L5	EO-345889	COIL FIX 1 EL0606SKI 331J
L6	EO-376858	COIL FIX 1 LF-5.0S F05 560K
P401	EJ-367911	SOCKET 5597-12CPB 12P
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	ET-360137	TR 2SC3330 U,V F05
TR4	ET-347961	TR 2SD1012-V G F05
TR5	ET-347961	TR 2SD1012-V G F05
TR6	ET-347961	TR 2SD1012-V G F05

## 12. POWER SUPPLY P.C BOARD

Ref. No.	Part No.	Description
C1	EC-316231	C EC V CUT AS1 222M 35.0DC
C2	EC-316231	C EC V CUT AS1 222M 35.0DC
C3	EC-322804	C EC V CUT AS1 472M 16.0DC
C4	EC-325306	C EC V CUT AS1 221M 63.0DC
C5	EC-324074	C EC V CUT AS1 101M 63.0DC
C24	EC-382819J	C DBL LAYER EEC55R5V 224 5.5DC
D1	*ED-371398	D SILICON DSA17-FB8 F12
D2	*ED-371398	D SILICON DSA17-FB8 F12
D3	*ED-388452J	D SILICON DSA12T-KB4 F12
D4	*ED-368949	D SILICON DS135D F10 200/1.0A
D5	*ED-368949	D SILICON DS135D F10 200/1.0A
D6	*ED-384315J	D SILICON RBV401 LF-B 100/4.0A
D7	ED-307572	D SILICON H 1SS131
D8	ED-624903	D SILICON H 1S2473
D9	ED-387762J	D ZENER H HZS36-3L F05
D10	ED-387763J	D ZENER H HZS7B3L F05
D11	ED-307572	D SILICON H 1SS131
D12	ED-381166J	D ZENER H HZS4A1 T26
D16	ED-387972J	D ZENER H HZ5ALL-FA F10
FR1	*ER-382923J	R FUSE H S10 ERQ14AJ 1/4W 150J
FR2	*ER-383484J	R FUSE H S17 ERQ-12H 1/2W R22J
IC1	EI-364888	IC M5223L
IC2	EI-337530	IC UPC574J
L1	EO-345881	COIL FIX 1 EL0606SKI 101J
RL1	EQ-382032J	RELAY POW G2R-217P-V-US 12V
RT1	*EX-330533	POSISTOR PTH61G27BD3R3N
TR1	ET-353899	TR 2SA1317 S,T,U
TR2	*ET-356224	TR 2SA1286 G,H,J F05
TR3	ET-360067	TR 2SC3330 T,U F05
TR4	ET-360067	TR 2SC3330 T,U F05
TR5	ET-360067	TR 2SC3330 T,U F05
TR6	*ET-356224	TR 2SA1286 G,H,J F05
TR7	*ET-364153	TR 2SC3246 J,K F05
TR8	*ET-376818	TR 2SC3247 H,J,K
TR9	ET-353899	TR 2SA1317 S,T,U
TR10	*ET-381175J	TR 2SD1856



Ref. No.	Part No.	Description
TR12	*ET-380685J	TR 2SD1761 E,F,G
TR13	*ET-380685J	TR 2SD1761 E,F,G
TR14	ET-354414	TR DTC144ES
TR16	*ET-380685J	TR 2SD1761 E,F,G
TR17	*ET-364153	TR 2SC3246 J,K F05
T1	*BT-381371J	TRANS POW VS-77EK
VR1	EV-378435	R S-FIX V RH0622C 0.30W 472
F2	*EF-359225	FUSE BET T 250V 3.15A

### 13. POWER P.C BOARD

Ref. No.	Part No.	Description
C25	*EC-361942	C CE V DNS103ZV V 103Z 400AC
LF1	*EO-382881J	COIL LF LF-4N 102
F1	*EF-358974	FUSE BET T 250V 630MA

### 14. TR P.C BOARD

Ref. No.	Part No.	Description
TR11	*ET-373025	TR 2SD1944 J1,J2,K

### 15. SW P.C BOARD

Ref. No.	Part No.	Description
SW1	*ES-343367	SW SLIDE HSW 0700-30 1-01-02N [VOLTAGE SELECTOR]

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

Ref. No.	Part No.	Description
D1	ED-624903	D SILICON H 1S2473
D2	ED-624903	D SILICON H 1S2473
D3	ED-624903	D SILICON H 1S2473
D4	ED-624903	D SILICON H 1S2473
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-307572	D SILICON H 1SS131
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
D14	ED-307572	D SILICON H 1SS131
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-346543	D ZENER H HZ9C1L
D21	ED-307572	D SILICON H 1SS131
D22	ED-307572	D SILICON H 1SS131
IB1	EH-367912	COMP R RKM6LS02F
IB2	EH-386639J	COMP R RGL4X 223J
IB3	EH-383054J	COMP R RGLD4X473J

Ref. No.	Part No.	Description
IC1	EI-381887J	IC UPD75216ACW-115 LHXOPE2
IC2	EI-381890J	IC CXK1008L
IC3	EI-354640	IC BU4052B
IC4	EI-381891J	IC UPC393HA
IC5	EI-373955	IC S8053ALR
IC6	EI-381894J	IC TA76
IN1	EM-381897J	IND FL BG524GK
SW1	ES-349474	SW TACT SKHHAM004A [SYSTEM RESET]
SW3	ES-349474	SW TACT SKHHAM004A [AEF]
SW4	ES-349474	SW TACT SKHHAM004A [FINE L]
SW5	ES-349474	SW TACT SKHHAM004A [TAPE VIEW]
SW6	ES-349474	SW TACT SKHHAM004A [FINE]
SW7	ES-349474	SW TACT SKHHAM004A [FINE]
SW8	ES-381884J	SW SLIDE SSSS91 L=4 1-01-02N [MPX FILTER]
SW9	ES-381884J	SW SLIDE SSSS91 L=4 1-01-02N [EDIT]
SW10	ES-381884J	SW SLIDE SSSS91 L=4 1-01-02N [SPEED]
SW11	ES-381882J	SW SLIDE SSSS91 L=4 1-01-03 [INPUT SELECTOR]
SW12	ES-381884J	SW SLIDE SSSS91 L=4 1-01-02N [VPS]
TR1	ET-373985	TR DTA144TS
TR2	ET-354414	TR DTC144ES
TR3	ET-364060	TR DTC143ES
X1	EI-368825	OSC X'TAL MX-38T 32.768KHZ
X2	EI-373957J1	OSC CE CST4.19MGW 4.194MHZ

### 17. OPERATION (B) P.C BOARD

Ref. No.	Part No.	Description
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
D505	ED-307572	D SILICON H 1SS131
J501	EJ-362033	PHONE J 3P HSJ1406 3.5 [HEADPHONE]
SW503	ES-381882J	SW SLIDE SSSS91 L=4 1-01-03 [CH PRE-SET]
VR501	EV-373958	VR ROTARY RK09K1130 B203 [INPUT BALANCE]
VR502	EV-381876J	VR ROTARY RK09K1130 B103 [PICTURE CONTROL]
VR503	EV-381877J	VR ROTARY RK09K1130 B202 [HEADPHONE LEVEL CONTROL]
VR504	EV-381878J	VR SLIDE RS30B223J A502X2 [REC LEVEL CONTROL]

### 18. OPERATION (C) P.C BOARD

Ref. No.	Part No.	Description
PH501	ED-381879J	DETECTOR AIQH3011HO
SW501	ES-349474	SW TACT SKHHAM004A [POWER SW]
SW502	ES-349474	SW TACT SKHHAM004A [EJECT SW]

## 19. RF P.C BOARD

Ref. No.	Part No.	Description
CF1	EH-373917	FILTER CE SAF39.5MZ70Z
CF2	EH-705502	FILTER CE TPS 6.0MB
CF3	EH-725829J	FILTER CE SFT6.0MA
CF4	EH-725827J	FILTER CE SAF32.9MDE70Z
D1	ED-717489	D SILICON H 1SS119
D2	ED-717489	D SILICON H 1SS119
IC1	EI-370835	IC LA7530N
IC2	EI-370835	IC LA7530N
L1	EO-366877	COIL FIX 1 EL0606SKI R22M
L2	EO-365304	COIL FIX 1 EL0606SKI 1R0J
L3	EO-717495	COIL RF 7KL 6F16151B1
L4	EO-725822J	COIL SIF DET 6F16267A1
L5	EO-725831J	COIL AFT 6F16182C3
L6	EO-714612	COIL RF 6F16113B2
L7	EO-345866	COIL FIX 1 EL0606SKI 120J
L8	EO-345869	COIL FIX 1 EL0606SKI 150J
L10	EO-345860	COIL FIX 1 EL0606SKI 2R7K
L11	EO-714612	COIL RF 6F16113B2
L501	EO-345871	COIL FIX 1 EL0606SKI 180J
Q1	ET-725820J	TR CHIP 2SC2735J
Q4	ET-724691J	TR CHIP 2SA1235 F
Q5	ET-713615	TR CHIP 2SC3052 E,F
Q105	ET-713615	TR CHIP 2SC3052 E,F
Q106	ET-353734	TR FET 2SJ103 GR,BL
Q118	ET-724692J	TR CHIP RT1N441C
Q119	ET-724692J	TR CHIP RT1N441C
Q201	ET-356224	TR 2SA1286 G,H,J F05
Q202	ET-724692J	TR CHIP RT1N441C
Q206	ET-713615	TR CHIP 2SC3052 E,F
Q209	ET-375777	TR 2SC2926S P,Q
Q501	ET-713615	TR CHIP 2SC3052 E,F
Q502	ET-724692J	TR CHIP RT1N441C
VR1	EV-353425	R S-FIX H RVF6P01 0.10W 103
VR104	EV-353557	R S-FIX H RVF6P01 0.10W 202
1	EE-371415	TV TUNER TEMB1-001A EK
2	BV-373936	RF CONVERTER MDLK3B063A EK,ES

## 20. VOLUME P.C BOARD

Ref. No.	Part No.	Description
D101	ED-383034J	D LED SLR-54PC3F L,M GREEN [VOL DOWN]
D102	ED-383034J	D LED SLR-54PC3F L,M GREEN [VOL UP]
D103	ED-383287J	D LED EBG3665S-157 GREEN [DOLBY]
D104	ED-383287J	D LED EBG3665S-157 GREEN [HALL]
D105	ED-383287J	D LED EBG3665S-157 GREEN [SYNTHL STEREO]
SW101	ES-349474	SW TACT SKHHAM004A [VOL DOWN]
SW102	ES-349474	SW TACT SKHHAM004A [VOL UP]
SW103	ES-349474	SW TACT SKHHAM004A [SURROUND OFF]
SW104	ES-349474	SW TACT SKHHAM004A [SYSTHL STEREO]
SW105	ES-349474	SW TACT SKHHAM004A [HALL]
SW106	ES-349474	SW TACT SKHHAM004A [DOLBY]

## 21. SURROUND P.C BOARD

Ref. No.	Part No.	Description
D1	ED-330218	D ZENER H HZ15-2L
D2	ED-346559	D ZENER H HZ12B2L
D3	ED-346559	D ZENER H HZ12B2L
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-624903	D SILICON H 1S2473
D8	ED-624903	D SILICON H 1S2473
D9	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
IC1	EI-351966	IC TC9176P
IC2	EI-351966	IC TC9176P
IC3	EI-381859J	IC M5241L
IC4	EI-366038	IC NE645N
IC5	EI-360228	IC MN3101
IC6	EI-381836J	IC MN3008
IC7	EI-380199J	IC BU4066BL
IC8	EI-200573	IC TC4053BP
IC9	EI-200573	IC TC4053BP
IC10	EI-200573	IC TC4053BP
IC11	EI-346071	IC M5218L-21
IC12	EI-346071	IC M5218L-21
IC13	EI-346071	IC M5218L-21
IC14	EI-346071	IC M5218L-21
IC15	EI-346071	IC M5218L-21
IC16	EI-346071	IC M5218L-21
IC17	EI-346071	IC M5218L-21
IC18	EI-346071	IC M5218L-21
IC19	EI-346071	IC M5218L-21
IC20	EI-346071	IC M5218L-21
IC21	EI-346071	IC M5218L-21
L1	EO-354600	COIL FIX 1 LAL02 F05 101K
P301	EJ-383289J	SOCKET 174074-6 6P
P302	EJ-383289J	SOCKET 174074-6 6P
TR1	ET-349608	TR 2SC3383 T,U
TR2	ET-349608	TR 2SC3383 T,U
TR4	ET-382106J	TR 2SB945 P,Q
TR5	ET-348948	TR 2SD1273 P,Q
TR6	ET-353897	TR DTC114ES
TR7	ET-354415	TR DTA144ES
TR8	ET-354415	TR DTA144ES
TR9	ET-354415	TR DTA144ES
TR10	ET-354415	TR DTA144ES
TR11	ET-354415	TR DTA144ES
TR12	ET-354415	TR DTA144ES
TR13	ET-354415	TR DTA144ES
TR14	ET-354414	TR DTC144ES
TR15	ET-353734	TR FET 2SJ103 GR,BL
TR16	ET-353734	TR FET 2SJ103 GR,BL
TR17	ET-353734	TR FET 2SJ103 GR,BL
TR18	ET-353734	TR FET 2SJ103 GR,BL
TR19	ET-354415	TR DTA144ES
VR1	EV-356577	R S-FIX H RH0615C 0.10W 103

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 Email:- enquiries@mauritron.co.uk

## 22. MAIN AMP P.C BOARD

Ref. No.	Part No.	Description
C301	EC-365620	C EC V CUT AS1 472M 25.0DC
C302	EC-365620	C EC V CUT AS1 472M 25.0DC
D301	*ED-357037	D SILICON DBA30B 100/3.0A
D302	ED-346568	D ZENER H HZ16-3L
D303	ED-346568	D ZENER H HZ16-3L
D304	ED-307572	D SILICON H 1SS131
IC301	*EI-381838J	IC LM1875T
IC302	EI-381838J	IC LM1875T
J301	EJ-381839J	PIN J JPJ8311-01-320 2P [VARIABLE OUT]
RL301	EQ-359532	RELAY POW G5R2282P DC12V
R316	*ER-387973J	R OMF H S12 FS 1W 100J
R317	*ER-387973J	R OMF H S12 FS 1W 100J
SW301	ES-373973	SW SLIDE HSW0810-010 1-01-02S [FRONT-REAR SW]
TM301	EJ-381840J	TERMINAL PUSH S-Q2747 #5 4P [SPEAKER TERMINAL]
TR301	*ET-348948	TR 2SD1273 P,Q
TR302	*ET-382106J	TR 2SB945 P,Q
TR303	ET-360067	TR 2SC3330 T,U F05
TR304	ET-360067	TR 2SC3330 T,U F05
TR305	ET-349608	TR 2SC3383 T,U
TR306	ET-353899	TR 2SA1317 S,T,U
TR307	ET-352726	TR 2SA1392 T,U
TR308	ET-355669	TR 2SC3246 G,H,J F05

## 23. NICAM P.C BOARD

Ref. No.	Part No.	Description
D1	ED-387783J	D ZENER H HZS6C3L F05
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-347767	D SILICON V MC911 DOUBLE F05
FL1	EH-380185J	FILTER EMI ZBF503S-01
FL2	EH-382829J	FILTER LC BP TH316BQM-2110QDAF
IC1	EI-359552	IC M5236L
IC2	EI-332259	IC TC4052BP
IC3	EI-346071	IC M5218L-21
IC4	EI-382824J	IC LP15C7B2
IC5	EI-382824J	IC LP15C7B2
IC6	EI-382826J	IC TD6710AN
IC7	EI-382827J	IC TA8662N
IC8	EI-382828J	IC TC6011N
IC9	EI-377094	IC CXX5864ASP-10L
L1	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L2	EO-351184	COIL FIX 1 EL0606SKI 821J
L3	EO-351184	COIL FIX 1 EL0606SKI 821J
L4	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L5	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L6	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L7	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
L8	EO-376179	COIL FIX 1 ALF-7.5F F05 101K
TR1	ET-337760	TR 2SA984K F
TR2	ET-352726	TR 2SA1392 T,U
TR3	ET-349608	TR 2SC3383 T,U
TR4	ET-349608	TR 2SC3383 T,U
TR5	ET-308141	TR 2SC2603 G F05
TR6	ET-308472	TR 2SA1115 E,F,G F05
TR7	ET-308141	TR 2SC2603 G F05
TR8	ET-308141	TR 2SC2603 G F05
TR9	ET-354415	TR DTA144ES
TR10	ET-354414	TR DTC144ES
TR11	ET-354415	TR DTA144ES
VC21	EC-347982	C S-FIX H VCT54E 4.5-20
X1	EI-382831J	OSC X'TAL NR-18 6.552MHZ
X2	EI-382833J	OSC X'TAL NR-18 5.824MHZ
X3	EI-382835J	OSC CE CSA16.93MX 16.930MHZ

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