

AKAI SERVICE MANUAL

**THE QUALITY OF
THIS MANUAL IS
THE BEST THAT
IS AVAILABLE**

M 8

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| SPECIFICATIONS

MODEL NUMBER: Akai Model M-8, portable 4-track stereo tape recorder.

WEIGHT (NET IN CARTON): 47.3 lbs. (21.5 kg.) for M-8
2.4 lbs. (1.1 kg.) for all accessories supplied.

DIMENSIONS : 20"H x 13"W x 9"D, overall, case closed. (510H x 340W x 226D in m/m)

POWER REQUIREMENTS: A.C. 100, 110, 120, 200, 220, or 240 volts interchangeable. 50-60 cycles.

POWER CONSUMPTION: 100 VA.

RECORDING SYSTEM: Specific "cross-field" recording based on the theory of trailless recording bias system. Inline 4 track stereo and 4-track monaural recording.

PLAYBACK SYSTEM: Inline 4-track stereo, monaural playback.

TAPE SPEED : Three speeds; 7½" (19 cm.), 3¾" (9.5 cm.) and 1⅞" (4.75 cm.) per second. (15" second with an accessory capstan and pinch wheel.)

TAPE SPEED DEVIATION: Less than ± 3 per cent at all tape speeds.

WOW AND FLUTTER: Less than 0.15% at 7½ ips. R.M.S.
Less than 0.25% at 3¾ ips. R.M.S.
Less than 0.35% at 1⅞ ips. R.M.S.

FAST FORWARD AND REWIND TIME: 90 seconds for 1,200 ft. tape at 50 cycles and 75 seconds at 60 cycles.

FREQUENCY RESPONSE: 30 to 25,000 cps. at 7½ ips; ± 3 db. 40 to 21,000 cps. at 7½ ips; ± 3 db. 40 to 18,000 cps. at 3¾ ips; ± 4 db. 40 to 10,000 cps. at 1⅞ ips.

DISTORTION : Within 2% at 1,000 cps, OVU (total harmonic)

SIGNAL-TO-NOISE RATIO: 40 db below recorded level signal at all speeds.

CROSS TALK : Within 53 db between each track.

CHANNEL SEPARATION: Better than 80 db at 1,000 cps; 3 VU.

POWER INPUT LEVELS: Microphone input level
-55 db (VR. max) at 1,000 cps.
Phono and radio input level
-15 db (VR. max) at 1,000 cps.

POWER OUTPUT: Head output, 1 mv. at 1,000 cps.
Pre-Amplifier output, 0.8 V at 1,000 cps, impedance 10,000 ohms
Main output, 34 dbm. up (in 600 ohms).

INSULATION RESISTANCE: More than 10 MEG ohms

INSULATION YIELD STRENGTH: More than one minute at A.C. 1,000 V with Headphone

MONITORING SYSTEM: With headphone (8 ohms) during recording

MOTOR : Hysteresis synchronous, two-speed motor, dynamically balanced.
1/100 HP. Power ratio, 70 per cent.
3,000 to 1,500 r.p.m. at 50 cps,
3,600 to 1,800 r.p.m. at 60 cps.

HEADS : Inline four-track stereo/monaural record-play head;
Impedance...5,000 ohms at 1,000 cps.
Four-track, cross-field bias head;
Impedance...14,000 ohms at 60 kc.
Four-track erase head;
Impedance...18,000 ohms at 60 kc.

MICROPHONE USED: Square-shaped, dynamic microphone
Impedance...50,000 ohms
Sensitivity...-55 db.
Frequency Response...70 to 15,000 cps ± 10 db.

SPEAKER INCLUDED: Two 4-inch dynamic speakers for vertical stereo sound effect
Impedance...8 ohms
Allowable Input...6 watts
Frequency Response...80 to 12,000 cps, ± 10 db.

TUBES USED : 6267 (EF83) x 2, 12AD7 (12AX7) x 2, 6BQ5 x 2, 6X4 x 2, 6AR5 x 1.

REELS USED : Up to 7" reel

RECORDING LEVEL INDICATOR: Horizontal, A-model VU meter

II HOW TO MEASURE DESIGNATED VALUES IN SPECIFICATIONS

TAPE SPEED

DEVIATION: Record the 1,000 cps. sine curve of the tape speed at rating speeds with a standard sound recorder (AMPEX 351A, for instance) which is little affected by the tape speed deviation throughout the whole length of the tape. Put this standard tape on the tape recorder under test for playing back, and measure its output by a counter, then convert the value into rating power frequency to evaluate the tape speed deviation.

For a rough measurement, the tape speed deviation can also be measured with a speed test timing tape by the count on a stop watch.

WOW AND

FLUTTER: Playback the 3,000 cps. standard tape that guarantees wow and flutter within 0.07 per cent, and read the effective value on wow meter.

Since the sensibility of wow and flutter frequency below 2 cps. and above 5 cps. drops, the frequency over 5 cps. is put to 3 db/OCT circuit, and the frequency below 2 cps. is put to 6 db/OCT circuit for adjustment. This adjusted value is called auditory compensated value.

FREQUENCY

RESPONSE: Connect to the input terminal of the (OVERALL FREQUENCY RESPONSE) test recorder a sweep frequency of the level -20 db. Record the sweep signal, playback the tape, terminate the output with eight ohms. Read the frequency response which should have a maximum deviation of 6 db.

TOTAL HARMONIC DISTORTION

FACTOR: Provide the input terminal of the tested recorder with 1,000 cps. sine curve signals and record these signals on a recording tape at the zero level on the recorder's internal VU meter. Then playback the signals under the normal recording condition to measure the distortion factor by an oscillator. Remove the recording tape from the recorder, then read the noise level on the oscillator to get the required distortion factor by the following formula:

$$d0 = d - d1 - d2$$

d0...required

d...overall distortion factor

d1...noise level

d2...distortion factor of the oscillator used

SIGNAL TO

NOISE: Playback the sine curve, 250 cps. tape, recorded on a standard recorder on the tested recorder to measure the voltage.

Remove the tape, then measure the noise level under the same condition. Calculate the ratio between the two in decibel.

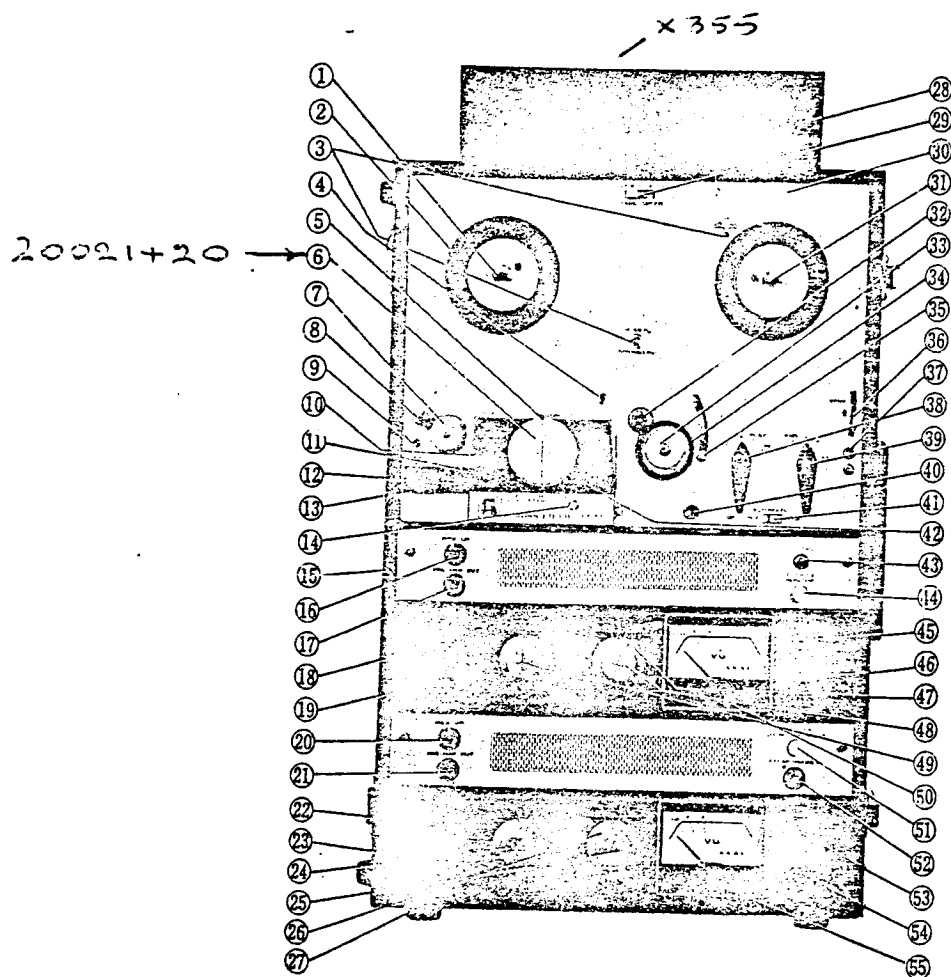
OUTPUT

: Playback on the test recorder the 1,000 cps. sine curve tape which was recorded at the zero VU level on a standard recorder. Terminate the test recorder with eight ohms. Square the voltage reading, then divide the figure by eight ohms to get the r.m.s. power output.

CROSS TALK

: Record 1,000 cps. signal at +3 VU on the third track, then playback this signal thru a 1,000 cps. Band Pass Filter. Compare the output of tracks 1 and 3 in decibels.

III LOCATION OF CONTROLS

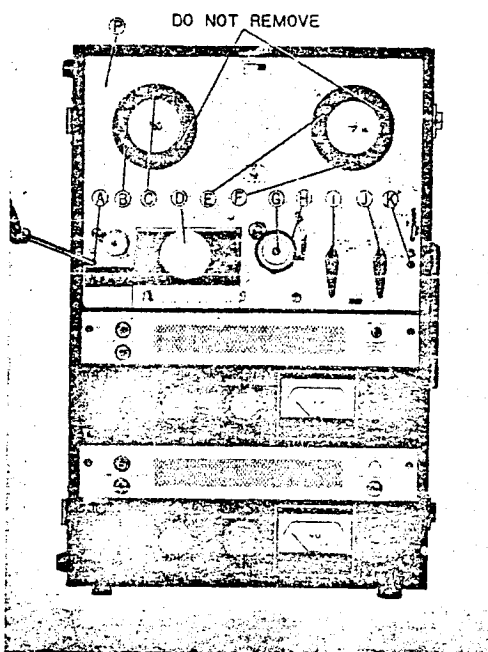


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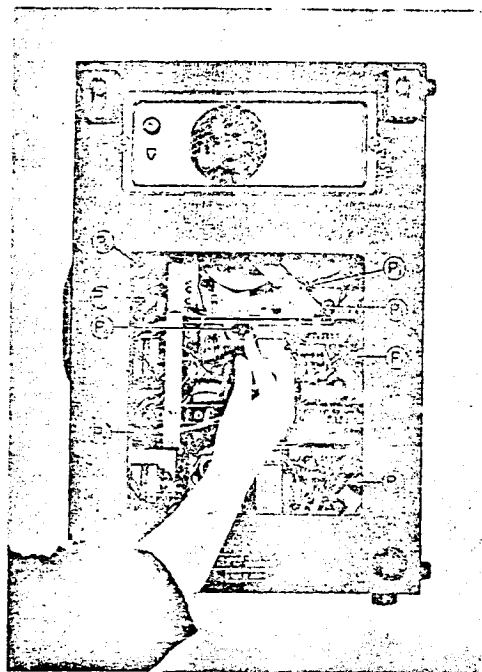
- | | |
|---------------------------------|-------------------------------------|
| ① FEED REEL SPINDLE | ②⑧ SOUND MIRROR |
| ② GUARD CIRCLE | ②⑨ SPEED CHANGE & ON/OFF SWITCH |
| ③ CYCLE CONVERSION SWITCH | ③⑩ TOP (DECK) PANEL |
| ④ CAPSTAN STORAGE POST | ③⑪ TAKE-UP REEL SPINDLE |
| ⑤ RETAINING SCREW | ③⑫ CAPSTAN SHAFT |
| ⑥ TRACK SELECTOR KNOB | ③⑬ PINCH ROLLER CAP |
| ⑦ TAPE GUIDE ROLLER | ③⑭ PINCH ROLLER |
| ⑧ TAPE CLEANER | ③⑮ AUTOMATIC SHUT-OFF LEVER |
| ⑨ RELEASE BUTTON | ③⑯ INSTANT STOP LEVER |
| ⑩ HEAD COVER, MAIN | ③⑰ START BUTTON |
| ⑪ ERASE HEAD | ③⑱ RECORD, PLAY SWITCH |
| ⑫ INDEX (REVOLUTION) COUNTER | ③⑲ REWIND, FAST-FORWARD SWITCH |
| ⑬ RESET BUTTON | ④① RECORD SAFETY BUTTON |
| ⑭ CROSS-FIELD HEAD | ④② AUTO STOP, SHUT-OFF SWITCH |
| ⑮ DIN (ONE CONNECTION) JACK | ④③ RECORD/PLAY HEAD |
| ⑯ PICK UP INPUT (LEFT CHANNEL) | ④④ PILOT LAMP (RECORDING INDICATOR) |
| ⑰ PRE-AMP OUTPUT (LEFT) | ④⑤ INTERNAL SPEAKER ON/OFF SWITCH |
| ⑱ LINE INPUT (LEFT) | ④⑥ POWER SWITCH |
| ⑲ MICROPHONE INPUT (LEFT) | ④⑦ SPEAKER OUTPUT JACK (LEFT) |
| ⑳ PICK UP INPUT (RIGHT CHANNEL) | ④⑧ TONE CONTROL (LEFT) |
| ㉑ PRE-AMP OUTPUT (RIGHT) | ④⑨ EQUALIZER SWITCH (LEFT) |
| ㉒ LINE INPUT (RIGHT) | ④⑩ VOLUME CONTROL (LEFT) |
| ㉓ MICROPHONE INPUT (RIGHT) | ④⑪ VOLUME UNIT METER (LEFT) |
| ㉔ VOLUME CONTROL (RIGHT) | ④⑫ SOUND ON SOUND SWITCH |
| ㉕ EQUALIZER SWITCH (RIGHT) | ④⑬ STEREO HEADPHONE JACK |
| ㉖ TONE CONTROL (RIGHT) | ④⑭ FUNCTION SWITCH |
| ㉗ CARRYING CASE | ④⑮ SPEAKER OUTPUT JACK (RIGHT) |
| | ④⑯ VOLUME UNIT METER (RIGHT) |

IV DISASSEMBLY TO REMOVE TAPE TRANSPORT UNIT & AMPLIFIERS

- (1) Loosen the *RETAINING SCREW* (G) of *PINCH ROLLER* (H) using a Phillips-headed screw driver to remove the *PINCH ROLLER* (H) by hand. Remove *HEAD WHEEL* (D) and *DECK CONTROL KNOBS* (I) & (J) by loosening their retaining screws. Also take off all of the screws identified from (A) to (K) to remove *DECK PANEL* (P).

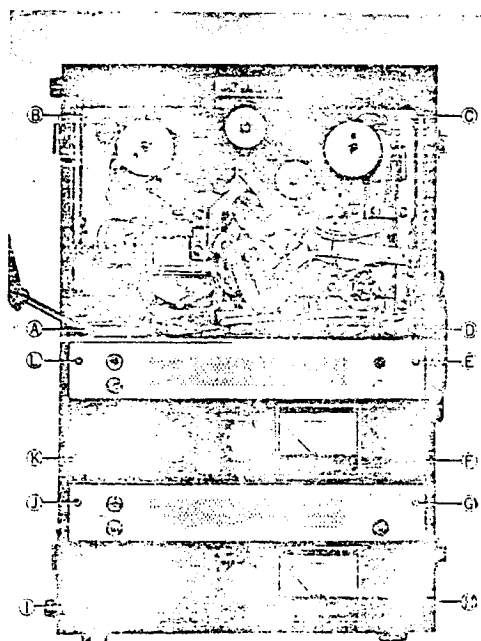
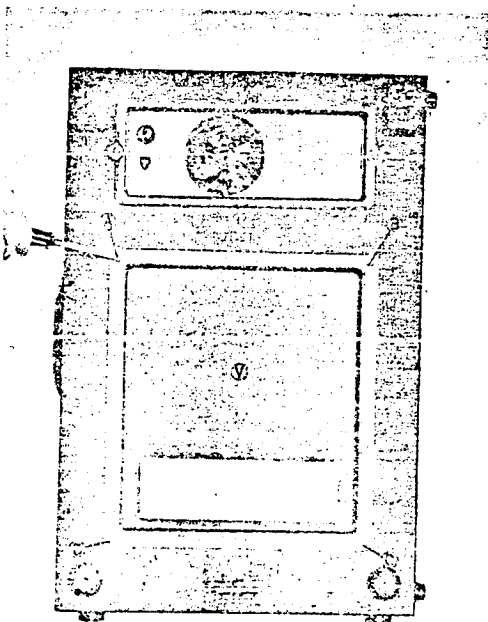


- (3) Disconnect all of the *PLUGS* marked (P1), (P2), (P3), (P4), (P6), (P7), (P8) and (P10) by hand.

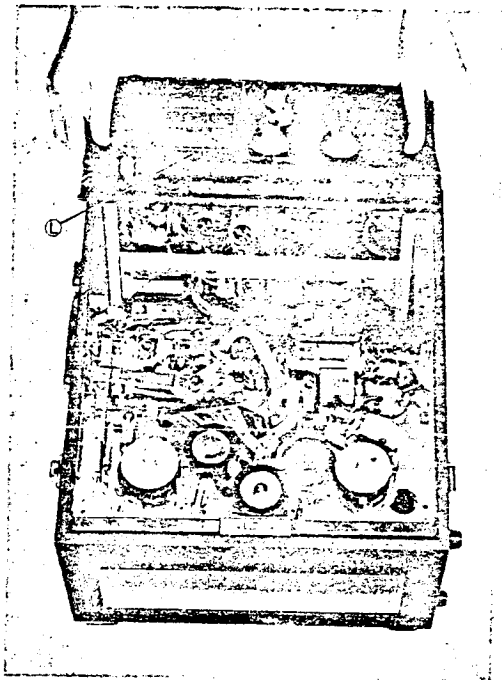


- (4) Loosen all of the screws marked from (A) to (L).

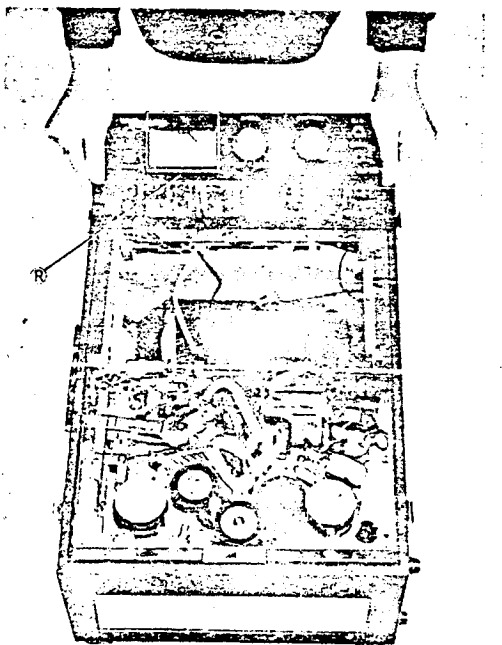
- (2) Loosen the screws marked from (A) to (D) in order to remove *VENTILATOR* (V).



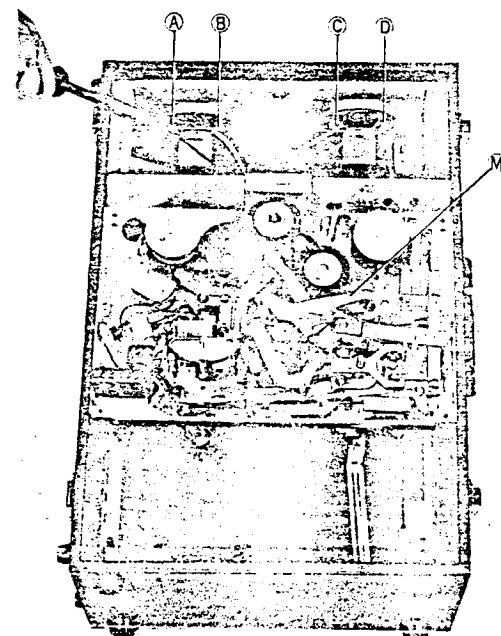
- (5) Lift the *LEFT AMPLIFIER* (L) from the carrying case.



- (6) Lift the *RIGHT AMPLIFIER* (R) from the carrying case.



- (7) Use a soldering iron to disconnect soldered ends of speaker cables and remove these cables. Now re-move *TAPE DECK* (M) from the case.



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V TRANSPORT MECHANISM

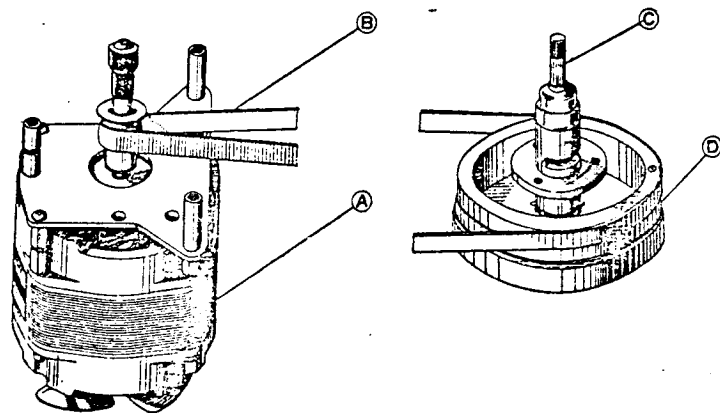


Fig. 1

Driving of Capstan

Figure 1.

- (A) Motor
- (B) Driving Belt (flat belt)
- (C) Capstan
- (D) Flywheel

High-speed rotation of *Motor* (A) is reduced by *Driving Belt* (B) and transmitted to *Capstan* (C), which is connected to *Flywheel* with ample inertia and enables rating rotation by absorbing minor rotation distortion of motor itself. (See Fig. 1)

Capstan Rotation 606 r.p.m. at 7-1/2" (19 m.) per sec.
303 r.p.m. at 3-3/4" (9.5 cm) per sec.
151.5 r.p.m. at 1-7/8" (4.75 cm.) per sec.

Motor Rotation 3,000 to 1,500 r.p.m. at 50 cps.
3,000 to 1,800 r.p.m. at 60 cps.

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Driving of Pinch Roller

Put tape between rotating capstan and pinch roller and push pinch roller against capstan, this will transport the tape at rated speed. The appropriate pressure of pinch roller at this time is between 1,000 to 1,150 grams at the tape speed of 7-1/2" (19 cm.) per second.

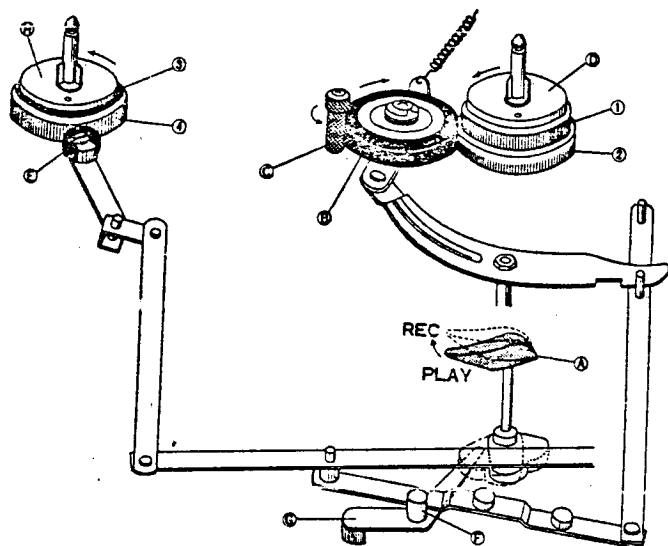


Fig. 2

Recording and Play Back

Turn the *RECORD, PLAYBACK* knob (A) to 'PLAY' position, and pinch roller presses hard against capstan to move tape at the rated speed. At the same time, *Idler* (B) moves between *Motor Bushing* (C) and the *Take-Up Reel Spindle* (D) to transmit the motor rotation to (D) so that the tape is moved and wound on the take-up reel.

The Take-Up Reel Spindle Base is made up of two plastic rollers (1 and 2) with a clutch felt in between. The Idler is rotating the plastic roller (2) below. Therefore, the tape-winding friction is adjusted by the slipping of the felt to enable rated winding of the tape.

On the other hand, the *Supply Reel Spindle* (H) has a *Brake, roller* (E) hung on the Plastic Roller (4) below which provides appropriate back tension by the clutch felt slipping to the rotation of the Pulley (3) above.

To prevent accidental erasure, the *Record Interlock Button* (F) must be depressed before the *RECORD, PLAYBACK* knob can be moved to the "REC" position. The *Safety device* (G) is depressed to enter the record mode.

(See Figures 2 and 3)

Braked Rotation Slipping Rotation

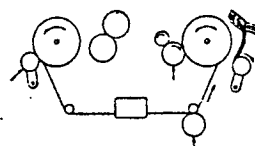


Fig. 3

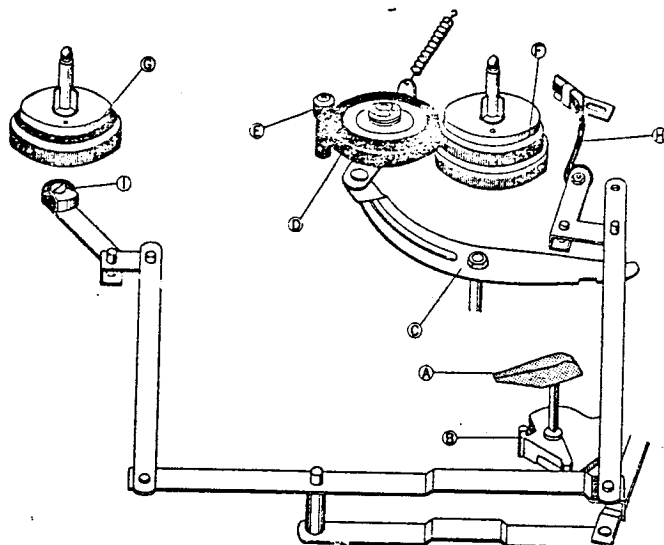


Fig. 4

FAST-FORWARD MECHANISM

Turn the **FAST FWD-REWIND knob (A)** to "FAST FWD" position, and the **cam (B)** under the knob pushes up the **Lever (C)**. The **Idler (D)** moves into the space between the **Plastic Roller (F)** above the **Take-Up Reel Spindle** and the upper part of the rotating motor drive bushing to transmit the motor rotation to the take-up reel spindle. At the same time, the **Brake Band (H)** and **Brake Roller (I)** come off the reel spindle to free the **Supply Reel Spindle (G)**, thereby allowing fast winding of the tape onto the take-up reel.

(See Figures 4 and 5)

Free Rotation High-Speed Rotation

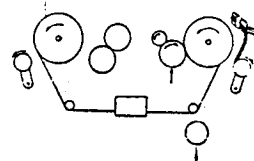


Fig. 5

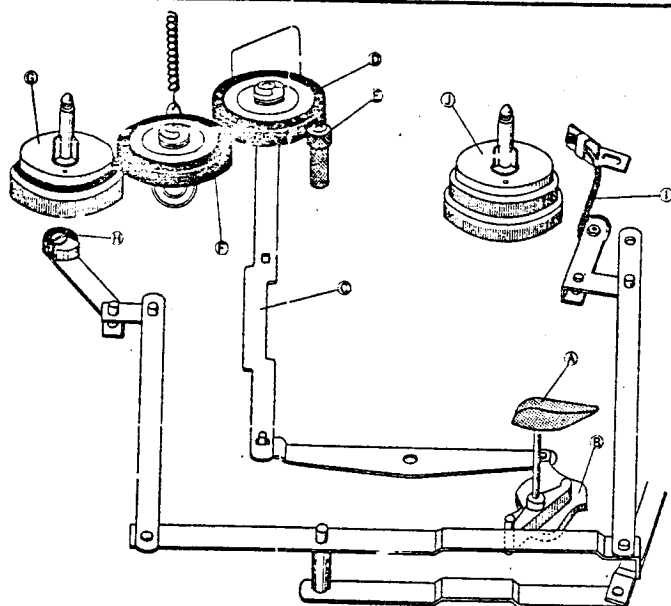


Fig. 6

REWIND MECHANISM

Turn the **FAST FWD-REWIND knob (A)** to "REWIND" position, and the **cam (B)** under the knob pushes the **Lever (C)** up. The **Idler (D)** moves into the space between the upper part of the rotating **Motor drive bushing (E)** and the **Intermediate Pulley (F)** to transmit the high-speed rotation of the motor through the intermediate pulley to the **Supply Reel Spindle (G)**. At the same time, **Brake roller (H)** and **Brake Band (I)** come off the reel spindle to free the **take-up reel spindle (J)**, thereby rewinding the tape into the supply reel at a fast speed.

(See Figures 6 and 7)

High-Speed Rotation Free Rotation

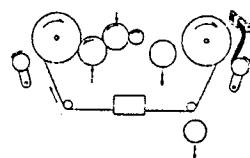


Fig. 7

Modes of Operation	Pinch Roller	Take-up Idler Wheel	Rewind Idler Wheel	Take-up-side Brake	Supply side Brake
(a) STOP	×	×	×	○	○
(b) FAST-FORWARD	×	○	×	×	×
(c) REWIND	×	×	○	×	○
(d) RECORDING PLAYBACK	○	○	×	×	×

NOTES: X-marks indicates "open" and O-marks "engaged"

STOP CONTROL

Push the stop lever to "STOP" position, **Brake Roller (A)**, and **Brake Band (B)** depress reel spindles to stop rotation of the reel spindles.

As brake rubber depresses the plastic rollers under the reel spindles, no friction works on the tape itself.

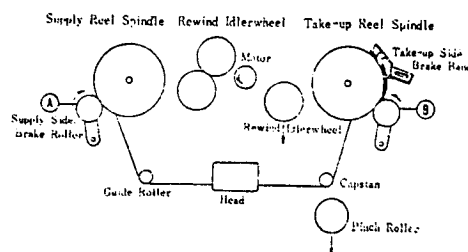
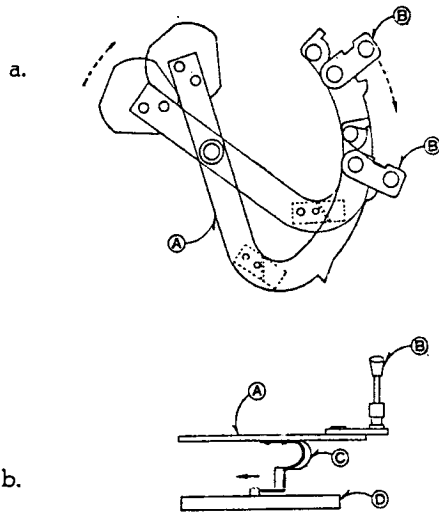


Fig. 8

AUTOMATIC STOP MECHANISM

Fig. 9

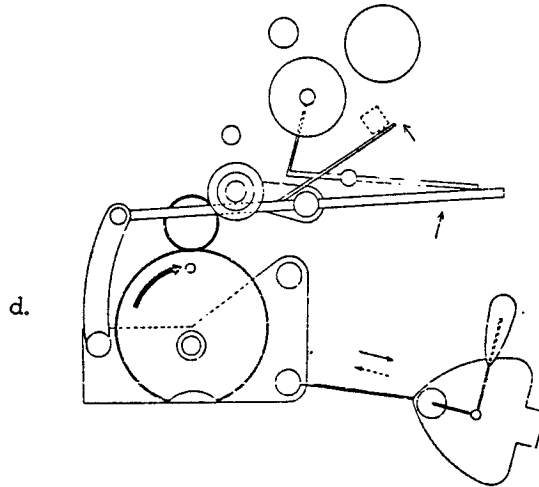
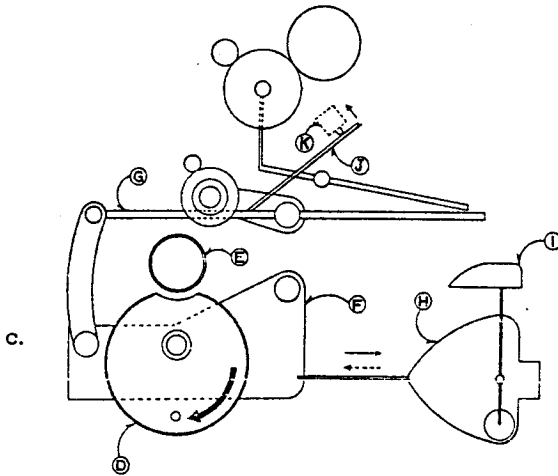


When the tape is threaded on the pin (B) at the top of the Automatic Stop Lever (A) comes off the pin, the Automatic Stop lever returns to the original position by the action of springs. At this time, the panel spring (C) below the Automatic Stop lever slightly pushes down the projected part of the eccentric gear (D), which gears into the Flywheel Gear (E) to start rotating and pushing up the Momentary Stop Lever (G) that is connected with the eccentric gear base (F).

Thus, the eccentric gear maintains the mechanism in the state of tentative stop for "Playback" or "Recording".

For "Fast-forward", or "Rewind", the Corkscrew lever (H) works to push back the "FAST FWD, REWIND" knob to the "Stop" position before stopping itself.

When the Automatic Cut-Off Switch is moved to "CUT OFF" position, the Shut-Off lever (I) moves to the arrow-mark direction to cut the power circuit, thereby depressing the attached Micro Switch (K) to shut off the current. (See a, b, c and d in Fig. 9)



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SOUND ON SOUND MECHANISM

By pushing SOUND-ON-SOUND BUTTON (A) while the recorder is set to recording condition, LEVER (D) is depressed and LEVER (C) is lifted through LEVER (B). Refer to Fig. 10-a.

As a result, LEVER (C) is released from stopper of SW-1 and SW-1 is reset to play condition as LEVER (E) is pulled by SPRING (F). Refer to Fig. 10-b.

In this condition, SOUND-ON-SOUND device is operative. If, however, SOUND-ON-SOUND is not operative, check all of the foregoing LEVERS to see that SW-1 is set to play condition.

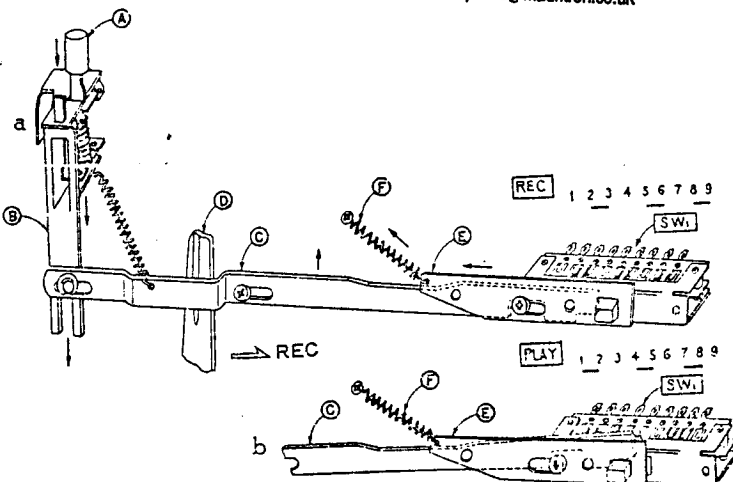


Fig. 10

VI ADJUSTMENT OF TAPE TRANSPORT UNIT

1. ADJUSTMENT OF PINCH WHEEL

It is important that the pinch wheel shaft be kept in complete alignment with the capstan shaft. A proper pinch wheel pressure is between 1,000 and 1,150 grams when the unit is operated at the tape speed of 7-1/2 ips. Any deviation from this specification will result in wow and flutter. Check pinch wheel pressure using a spring scale and, if necessary, adjust the pinch wheel load spring to suit.

2. ADJUSTMENT OF TAKE-UP IDLER WHEEL

The take-up idler wheel must be kept in complete alignment with the take-up reel shaft. When the unit is set in fast forward condition, the idler wheel will contact to the upper knurled wheel of the take-up reel shaft assembly, and it will contact to the lower knurled wheel during record or play mode. Adjust idler wheel load spring so that the idler wheel pressure is kept between 50 and 80 grams. The idler wheel wears rapidly if the pressure is excessive, and slippage occurs in case the pressure is smaller than the specification.

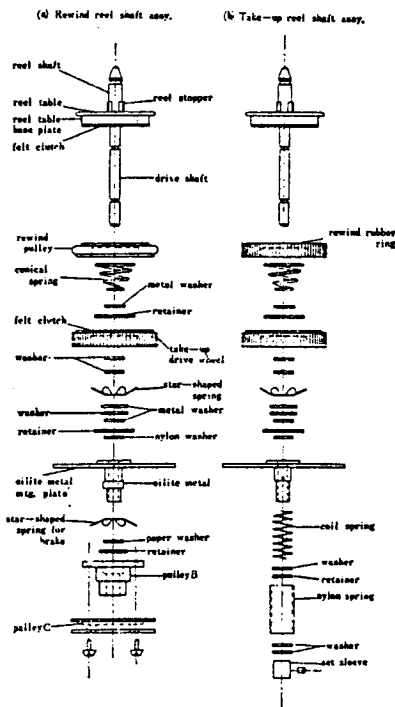


Fig. 11

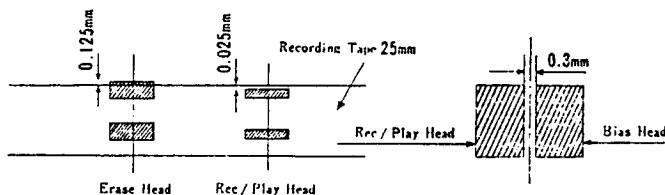


Fig. 12

3. ADJUSTMENT OF REWIND IDLER WHEEL

The rewind idler wheel must be kept in complete alignment with the rewind reel shaft. The amount of pressure to the knurled motor bushing should be maintained about 50 grams during rewind operation. Adjust both the idler load spring and rewind roller.

4. ADJUSTMENT OF INTERMEDIATE WHEEL

The intermediate wheel is located between the rewind idler wheel and the rubber ring which is used on the upper part of the supply reel shaft assembly. When the unit is set in rewind mode, it will contact to these parts simultaneously delivering torque of motor. An adequate pressure to be kept is 50 grams. Adjust the load spring of the intermediate wheel in case the pressure is not sufficient.

5. ADJUSTMENT OF TAKE-UP REEL SHAFT ASSEMBLY

A felt clutch material is attached to the bottom side of the reel table base plate so that recording tape will not be stretched during fast forwarding operation due to excessive tension. To check the amount of friction of this part, place onto the take-up reel table a 5-inch reel with recording tape wound by 60 m/m in diameter, and gently pull the end of tape upward using a spring scale. Adjust the conical spring so that the amount of tension at this part will be kept between 400 to 500 grams. Another felt clutch material is attached to the take-up drive wheel. It is used to provide proper slipping operation during record or play mode. The procedure for checking friction of this part is same as the foregoing, and between 120 and 200 grams of friction will provide the best result. Adjust the star-shaped spring immediate below the take-up drive wheel. When the unit is set in rewind mode, the amount of friction of this part will greatly be reduced and will become 10 to 20 grams. Check to see if this is satisfactory and, if not, readjust the star-shaped spring for Brake, and spring retainer washes accordingly. (See figure 11 (a) at left)

6. ADJUSTMENT OF SUPPLY REEL SHAFT ASSEMBLY

A felt clutch material is used between the lower side of the reel table base plate and the rewind rubber ring to protect recording tape from an excessive tension while rewinding operation. To check the amount of friction of this part, place onto the supply reel table a 5-inch reel with recording tape wound by 60 m/m in diameter and gently pull the end of tape upward using a spring scale. Adjust the conical spring so that the amount of tension be kept between 400 and 500 grams. Another felt clutch is attached to the rewind drive wheel and is used to provide proper slipping operation during record or play mode. The procedure for checking friction of this part is same as the foregoing, and between 80 and 120 grams of friction will give the best result. When the unit is set in fast forward mode, the amount of friction will greatly be reduced and will become 10 to 20 grams.

Check to see if this is proper and, if not, readjust coil spring and spring retainer washer to suit.

7. ADJUSTMENT OF TAPE HEAD

(See figure 12 (b) at left)

A vertical azimuth alignment of tape head is the only adjustment that can be made at the field of service. To align tape head, play 8,000 cycles recorded on an Ampex standard alignment tape. Rotate the azimuth alignment screw until a maximum playback level through the small hole which is positioned on the shield cover of the tape head assembly.

VII ADJUSTMENT OF AMPLIFIER

1. ADJUSTMENT OF RECORDING BIAS FREQUENCY

Recording/erasing bias frequency has been set at 60 KC plus or minus 5 KC before shipment. It is decided by inductance of the oscillator coil (part # OSC 60) and its resonant capacitor (part # C-22). To measure recording bias frequency, insert a 10 or 100 ohm resistor in series to the record/play head and connect vertical input terminals of an oscilloscope as shown in the Fig. 13.

Another testing instrument to be prepared is an audio frequency oscillator and its output should be connected to horizontal input terminals of the oscilloscope. Vary frequency being generated by the audio frequency oscillator around 60 KC, and set the oscillator at the point where a lissajous figure appears on the oscilloscope. The recording bias frequency now corresponds to the reading of the oscillator. Check oscillator coil, C-22, C-27 and bias head if recording bias frequency measured is not within 60 KC plus or minus 5 KC.

Fig. 13

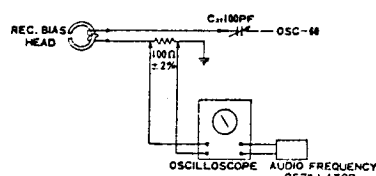


Fig. 14

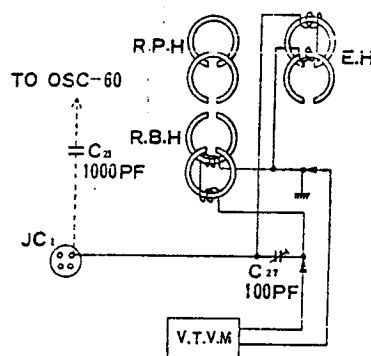


Fig. 15

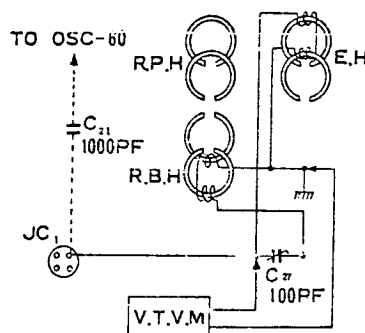
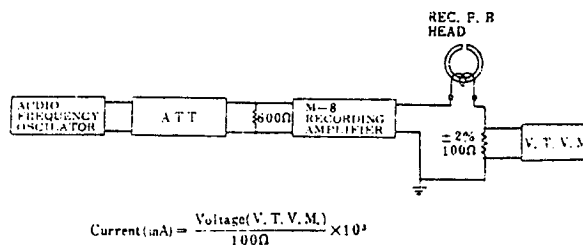


Fig. 16



2. ADJUSTMENT OF RECORDING BIAS VOLTAGE

A proper recording bias voltage differs on each head from 130 to 230 volts A.C., and it is stamped on the mounting bracket of tape head assembly. To measure recording bias voltage, connect a V. T. V. M. (Vacuum Tube Volt Meter) to the record/play head as shown in the Fig. 14. Check C-21, C-27 and bias head if recording bias voltage does not meet to the above-mentioned specification after adjusting C-27, a 100 pf variable capacitor.

3. ADJUSTMENT OF ERASING BIAS VOLTAGE

A proper erasing bias voltage is decided automatically as recording bias voltage is set. The erasing bias voltage, however, should always be more than 170 volts A.C. To measure erasing bias voltage, connect a V. T. V. M. to the erase head as shown in the Fig. 15. Check C-21 (1000 pf mica capacitor) and erase head if erasing bias voltage measured is lower than 170 volts A.C.

4. ADJUSTMENT OF RECORDING LEVEL

A basic recording level, usually referred to as "0 VU", is set at the point where current of $30 \mu A \pm 10\%$ flows to the recording head at 1000 cycles. The VU meter indicates $0 VU \pm 2 VU$ when a signal of $55 db \pm 5 db$ at the microphone jack or $-15 db \pm 5 db$ at the line input jack is given with the volume control set at its maximum.

Adjustment of recording level can be accomplished by varying sensitivity of VU meter, however, it is not necessary to make in a field of service as all VU meters have correctly been calibrated at factory before shipment. See Fig. 16 for details.

NOTE: Make sure to stop oscillation by disconnecting the oscillator coil # OSC 60 at the points marked "P" and "G" prior to measurement of recording level.

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

VIII MAINTENANCE PROCEDURES

1. LUBRICATION INSTRUCTION

For maximum service life and optimum performance, lubricate the parts identified below after each 500 hours of operation. Use only light machine oil of good quality

Motor	3 drops
Drive Capstan Shaft	2 drops
Rewind Idler Wheel Bearing and Wind take-up Idler Bearing.	1 drop
Intermediate Idler Bearing	1 drop
Pinch Wheel Bearing	2 drops
Take-up and Supply Reel Shaft Bearing &	2 drops

Also apply a liberal film of light machine grease to each roller surface of all levers and cams.

CAUTION: DO NOT OVER-LUBRICATE, AND WIPE OFF EXCESS IMMEDIATELY USING A COTTON SWAB SOAKED IN ALCOHOL. OTHERWISE, THE OVER-FLOWED LUBRICANT MAY BE SCATTERED DURING OPERATION AND DETERIORATION OF RUBBER COMPONENT PARTS WILL RESULT.

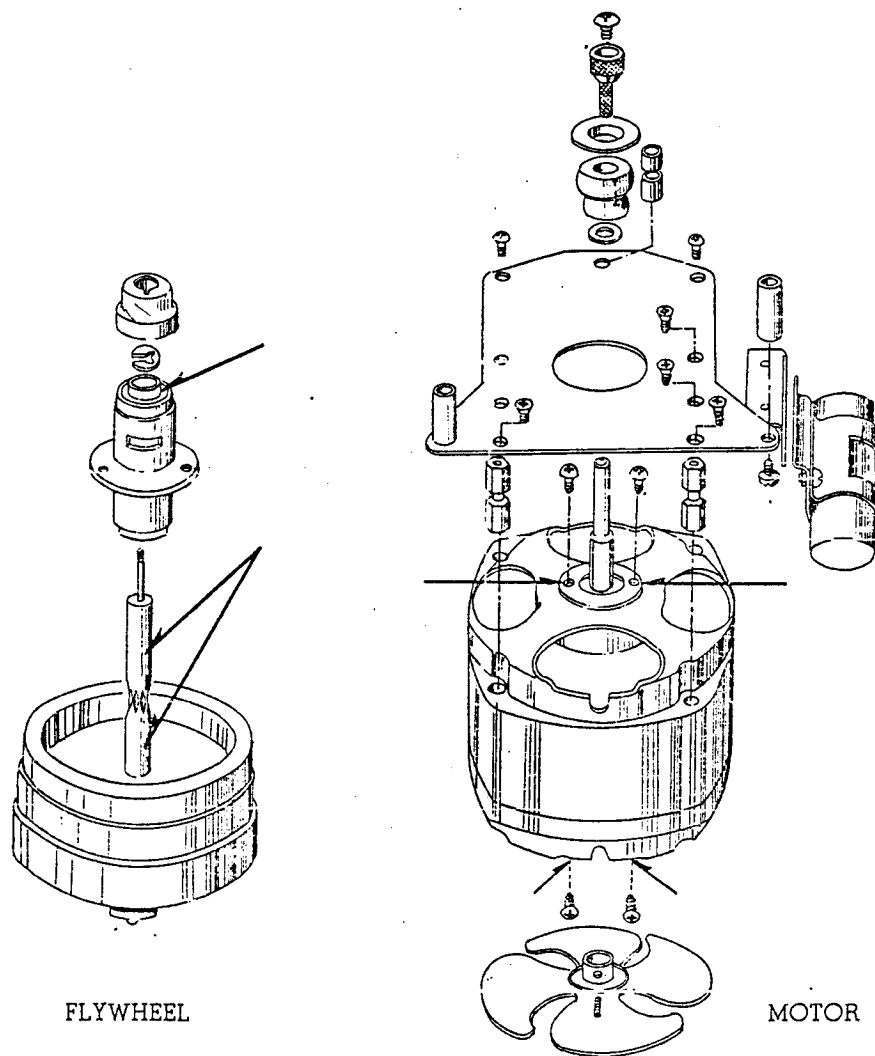


Fig. 17

2. CLEANING TAPE HEADS AND OTHER PARTS

Wipe surface of tape heads, guide roller bearing, capstan bushing and pinch wheel periodically with a soft cloth soaked in alcohol or carbon-tet.

IX LIST OF REPLACEMENT PARTS

Parts No.	Nomenclature	Parts No.	Nomenclature	Parts No.	Nomenclature
TOP PANEL					
81-001	Deck Panel 20021025	82-004k	Nylon Washer 20021024	82-010b	Take-up Brake Band 135
002	Guard Circle, Metal 0563	004l	Washer 020	010c	Holder, Take-up Brake Band 130
003	Knob, Track Selector 1027	004m	Washer 021	010d	Shaft, Take-up Brake Band Lever 20021137
	Control	004n	Nylon Washer, Small 022		
004	Head Cover, Main 1022	004o	Metal B, Reel Table 0590	011	Supply Brake Roller, Complete 20021132
005	Head Cover, Sub 1029	004p	Washer Pin 021	011a	Lever, Supply Brake Roller 134
006	Name Plate 1030	004q	Pulley, B 023	011b	Supply Brake Roller 20021134
007	Screw, Retaining Sub Head Cover 1031	004r	Pulley, C 026	011c	Screw, Brake Roller 141
		004s	+Screw Semi-Cubic 3x6	012a	Switch, Automatic Shut-off 142
008	Base, Head Cover 1032	004t	Screw, Without Head 4x7	012b	Plate, Automatic Shut-off 143
009	Tape Guide, complete 1033	004u	+Screw Flat 3x6 0577		Switch
009a	Top Plate, Tape Guide 0566	005	Take-up Reel Assembly 091	012c	Safety Lever A 20021144
009b	Table, Tape Guide 0567	005a	Reel Shaft, Take-up Reel 091	012d	Safety Lever B 145
009c	Bearing, Tape Guide 0568	005b	Felt Washer 092	012e	Shaft, Safety Lever 146
009d	Bottom Plate, Tape Guide 0569	005c	Take-up Roller, A 0535		
009e	Small Table, Tape Guide 0570	005d	Spring G, Right 094	013a	Switch, Speed Change 147
010	Tape Cleaner, Complete 034	005e	Deer Skin 095		(8 P Slide Switch)
010a	Screw 040	005f	Take-up Roller, B 096	013b	Plate, Speed Change Switch 149
010b	Felt 041	005g	Holder, Reel (Star type spring) 1072	014a	Idler Wheel B 20021149
010c	Lever, Tension 042	005h	Metal A, Reel Table 093	014b	Bearing (635-ZZ) 20021150
010d	Spring, Tension Lever 043	005i	Spring, F2 094	014c	Cover, Bearing 151
011	Prop A, Head Cover 044	005j	Washer 20021100	014d	+Screw Truss 3x6 152
012	Prop B, Head Cover 045	005k	Nylon Spring 101	015	Idler Wheel A 20021154
013	Prop C, Head Cover 046	005l	Nylon Washer 102	016	Internal Wheel 20021155
014a	Screw, Retaining Track Selector Control Knob 0557	005m	Set Sleeve 103	017a	Lever, A 20021155
		005n	Screw, Without Head 3x3 104	017b	Shaft, Lever A 156
014b	+Screw Flat Mould 3x12 042			018	Lever, B 157
014c	+Screw Truss 3x4 044	006a	AS Lever, Complete 200210630	019	Lever, C 158
014d	+Screw Flat Mould 3x8 050	006b	Spring, AS Lever 106	020a	Lever, G 159
014e	Mounting screw 0557	006c	Plate, AS Lever 107	020b	Metal, Lever G 160
014f	3 mm Nut 052	006d	Spring 0534	021	Lever, K 161
014g	4 mm Nut 0576	006e	Plate, Gear 109	022	Field Lever, A 162
Deck retaining screws		006f	Screw, Gear 110	023	Field Lever, B 163
	200210670	006g	Eccentric gear 111	024	Field Lever, D 164
DECK FRAME		006h	Gear, Stopper 0647	025a	Field Lever, E 165
82-001	Deck Frame 20021054	006i	Spring, Stopper 0664	025b	Screw, Field Lever E 166
002	Head Assembly, Complete 055	006j	Lever, Automatic switch 114	026	Lever, FA 167
002a	Erase Head 056	006k	Screw, Gear Plate 115	027	Lever, FB 168
002b	Record/Playback Head 057			028	Lever, A2 169
002c	Bias Head (Cross Field Head) 058	007	Instant Stop Lever, Complete 116	029	Prop A, Panel 170
002d	Field base 059	007a	Instant Stop Lever 117	030	Spring Pin, B 171
002e	Spring, C 0634	007b	Spring, Instant Stop Lever 0462	031	Hum Bucking Coil 172
002f	Prop, Head 061	007c	Holding, Instant Stop Lever 0463	032	Switch, Cycle Change (N35-122) 173
002g	Screw, Without Head 3x17 062	007d	Holder, Instant Stop Lever 0464		
002h	Cover, Rotary shield 063	007e	Lever, Shut-off 121	033	Spring Holder 174
003	Index Counter, Complete 064			034	Cam Roller, A 175
003a	Pulley, Counter 065	008a	Recording Safety Button 122	035	Cam Roller, B 176
003b	Belt, Counter 066	008b	Cam Stopper 123	036	Washer Pin, Small 177
003c	+Screw Semi-Cubic 3x5 067	008c	Fiber, Cam Stopper 124	037	Stopper, Lever G 178
004	Supply Reel Assembly 067	008d	Insulator Plate, Cam Stopper 125	038	Micro Switch (V-1A) 179
004a	Plate, Reel Table 0578	008e	+Screw 4x5 126	039a	Lever, Belt Change 180
004b	Reel Shaft, Supply Reel 0579			039b	Metal, Belt Change 181
004c	Rubber Ring 0580	009a	Pinch Wheel 200210611	039c	Spring Belt Change 182
004d	Rewind Pulley 0581	009b	Metal Cap, Pinch Wheel 122	040a	Prop, Panel Support 183
004e	Spring G, Left 1094	009c	Lever, Pinch Wheel 0674	040b	Nut 184
004f	Washer 0533	009d	Shaft, Cam Roller 130	040c	+Screw 4x12 185
004g	Washer Pin, Large 0534	009e	Cam Roller, 13 mm 131	041a	Torsion Spring 186
004h	Felt Washer 076	009f	Shaft, Pinch Wheel Lever 132	041b	Spring, Lever B 187
004i	Take-up Roller 0535			041c	Spring, Idler 188
004j	Holder, Reel (Star type spring) 072	010	Take-up Brake Band, 133 Complete	041d	Spring, Pinch Wheel 189
		010a	Lever, Take-up Brake Band 134	041e	Spring, B 190
				041f	Spring, D 191

5" Capstan 20021031

M3 Case 20021233

AMPLIFIER

Parts No.	Nomenclature	
82-041g	Spring, D (New type)	1 9 2
041h	Spring, E	1 9 3
042a	+Screw Truss 4x8	2 0 0 2 1 2 4
042b	+Screw Semi-Cubic 4x10	1 4 5
042c	+Screw Semi-Cubic 4x8	2 0 0 2 1 2 4
042d	+Screw Semi-Cubic 4x6	1 9 7
042e	+Screw Flat 3x6	1 9 2
042f	+Screw Semi-Cubic 3x6	0 2 4 2
042g	+Screw Semi-Cubic 3x5	2 0 0
042h	+Screw Semi-Cubic 3x18	2 0 1
042i	Screw A	2 0 2
043a	4 mm Nut	2 0 3
043b	3 mm Nut	2 0 4
044a	4 mm Ground Lug	2 0 5
044b	3 mm Ground Lug	2 0 6
045a	Lock Washer 4 mm	2 0 7
045b	Lock Washer 3 mm	2 0 8
046a	Washer	2 0 0 2 1 2 0 9
046b	Nylon Washer	2 1 0
047	Button, Start	2 1 1
048	Lug Plate, 3 P	2 1 2

DRIVE MOTOR

83-001	Motor, Complete	2 0 0 2 1 2 2 4
001a	+Screw Semi-Cubic 3x15	1 2 1 4
001b	Stepped Pulley -	2 0 0 2 1 2 1 5
001c	Belt Holder	1 2 1 6
001d	Motor Pulley	1 2 1 7
001e	Oil Retainer	2 1 2
001f	Motor Holder	2 1 9
001g	Rotar	2 2 0
001h	Cover, Motor	
001i	Stator	2 2 2
001j	Cover, Motor	2 2 3
001k	+Screw Flat Mould 4x50	0 2 7 4 3
001l	Motor Fan	2 0 0 2 1 2 2 5
001m	Condenser 2.2 μ F + 0.6 μ F	2 2 6
001n	Holder, Motor Condenser	2 2 7
001o	Hexagonal Nut, 20 mm	2 2 8
001p	Prop, Motor 22.5 mm	2 2 9
001q	Prop, Motor 21.5 mm	2 3 0
001r	Plate, Motor Condenser	2 3 1
001s	Supporter, Cord	2 3 2
001t	+Screw Semi-Cubic 4x2	2 3 3
001u	+Screw Semi-Cubic 4x10	2 3 4
001v	+Screw Flat 4x10	2 3 5
001w	+Screw Flat 3x5	2 3 6
001x	Washer	2 0 0 2 1 2 3 7

200 21087.

FLYWHEEL ASSEMBLY

84-001	Flywheel, Complete	2 3 2
001a	Capster	2 3 9
001b	Main Metal Cap, B	2 4 0
001c	Washer Pin	2 0 0 2 1 1 0 5
001d	Main Metal Case	2 4 2
001e	Flywheel	2 4 3
001f	4 mm Ball Bearing	2 4 4
001g	Plate, Flywheel	2 4 5
001h	Washer, 6.5 mm	2 4 6

Parts No.	Nomenclature	
001i	Washer, 6mm	2 0 0 2 1 2 4 2
001j	Wing Nut	1 2 4 9
001k	Screw, Flywheel Adjust	2 5 0
001l	5 mm Nut	2 5 1
001m	Prop A, Flywheel	2 5 2
001n	Prop B, Flywheel	2 5 3
001o	4 mm Spring Washer	2 5 4
001p	Drive Belt	2 5 5
001q	+Screw Flat 4x10	

SWITCH BLOCK

85-001	Switch Block, Complete	2 0 0 2 1 2 5 7
001a	Knob, Record/Play & Rewind Fast Forward	2 5 3
001b	Cam A	2 0 0 2 1 2 6 0
001c	Cam B	2 6 1
001d	Cam Roller, 12 mm	2 6 2
001e	Switch Table A	2 6 3
001f	Lever, I	2 6 4
001g	Fast/Forward Rewind Shaft	2 6 5
001h	Rotary Switch (V-123)	2 6 6
001i	Resistor $\frac{1}{4}$ W 500 Ω	2 6 7
001j	Pin	2 0 0 2 1 2 6 8
001k	Plate, Cam	2 6 9
001l	Spring, K	2 7 0
001m	Cam C	2 7 1
001n	Switch Table B	2 7 2
001o	Prop, Receptacle	2 7 3
001p	UZ Receptacle	2 7 4
001q	Cam Amp. Switch	2 7 5
001r	Prop, Switch	2 7 6
001s	Switch Lever, A	2 7 7
001t	Switch Lever, B1	2 7 8
001u	Switch Lever, C	2 7 9
001v	Switch Lever, B2	2 8 0
001w	Ball Bearing, 8 mm	2 8 1
001x	Screw, Without Head 4x5	2 8 2

CASE

86-001	Carrying Case	2 0 0 2 1 2 8 3
001a	Handle	2 8 4
001b	Catch	2 8 5
001c	Speaker	2 8 6
001d	4 P Plug	2 8 7
001e	Nut	2 8 8
001f	Hinge	2 8 9
001g	Reel Holder, A	2 9 0
001h	Metal Foot	2 9 1
001i	Catch, Compartment Cover	2 9 2
001j	5 P Escutcheon	2 9 3
001k	5 P Receptacle	2 9 4
001l	+Screw Truss 3x20	2 9 5
001m	Rubber Foot (large)	2 9 6
001n	Rubber Foot (small)	2 9 7
001o	Ventilator Panel	2 9 8
001p	Ventilator Panel	2 9 9
001q	Fuse, 2A	3 0 0
001r	Fuse Holder	3 0 1

AMPLIFIER

Parts No.	Nomenclature	
8-AL101	Amp. panel, Left	2 0 0 2 1 3 0
AR101	Amp. panel, Right	2 0 0 2 1 3 0
AL102	Ventilator base, Left	3 0 4
AR102	Ventilator base, Right	3 0 5
A103	Amp. chassis	3 0 6
A104	Amp. chassis, A	3 0 7
A105	Amp. chassis, B	3 0 8
A106	Hum balancer mount	3 0 9
A107	4 P jack mount	3 1 0
8-AK2	C.R. compound body (300 K Ω 50 PF)	3 1 1
AK3	C.R. compound body (300 K Ω 50 PF)	3 1 2
AK4	C.R. compound body (20 K Ω 500 PF)	3 1 3
8-C1	Mica condenser 250PF 1 KV	3 1 4
C2	Tubular type electrolytic condenser 25 μ F 25 WV	3 1 5
C3	Tubular type electrolytic condenser 1 μ F 150 WV	3 1 6
C4	Condenser, enclosed in AK2 50 PF	3 1 7
C5	Tubular type paper condenser 0.01 μ F 400 WV	3 1 8
C6	Tubular type paper condenser 0.02 μ F 400 WV	3 1 9
C7	Tubular type electrolytic condenser 20 μ F 300 WV	3 2 0
C8	Tubular type paper condenser 0.02 μ F 400 WV	
C9	Tubular type paper condenser 0.02 μ F 400 WV	
C10	Tubular type electrolytic condenser 25 μ F 25 WV	3 2 3
C11	Tubular type paper condenser 0.01 μ F 400 WV	
C12	Tubular type electrolytic condenser 25 μ F 25 WV	3 2 5
C13	Tubular type paper condenser 0.01 μ F 400 WV	
C14	Mica condenser 50 PF 1 KV	3 2 7
C15	Mica condenser 1000 PF 1KV	3 2 8
C16	Tubular type electrolytic condenser 25 μ F 25 WV	
C17	Tubular type electrolytic condenser 20 μ F 300 WV	3 3 0
C18	Tubular type paper condenser 0.001 μ F 400 WV	3 3 1
C19	Tubular type paper condenser 0.01 μ F 400 WV	
C20	Mica condenser 50 PF 1 KV	3 3 3
C21	Mica condenser 1000 PF 1 KV	2 0 0 2 1 3 3 4
C22	Tubular type electrolytic condenser 3 μ F 350 WV	3 3 5
C23	Tubular type paper condenser 0.005 μ F 400 WV	3 3 6
C24	FM condenser 450PF 1 KV	3 3 7
C25	Lug terminal type Electrolytic condenser	3 3 8
C26	20+20 μ F 350 WV	3 3 9

Capstan drive shaft 20021256

M6.7.3 Spring 20021324

" Nylon Washer 20021372

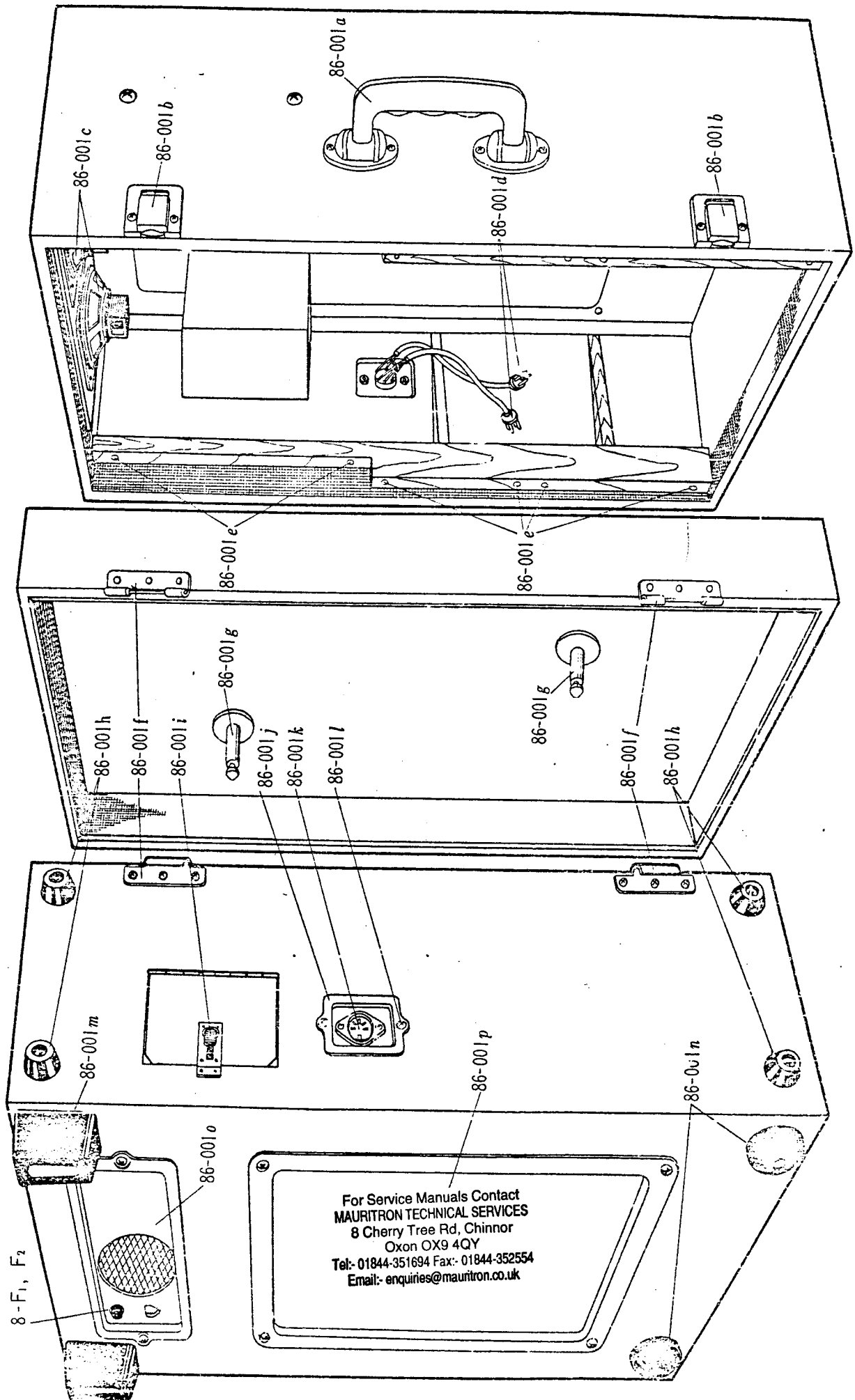
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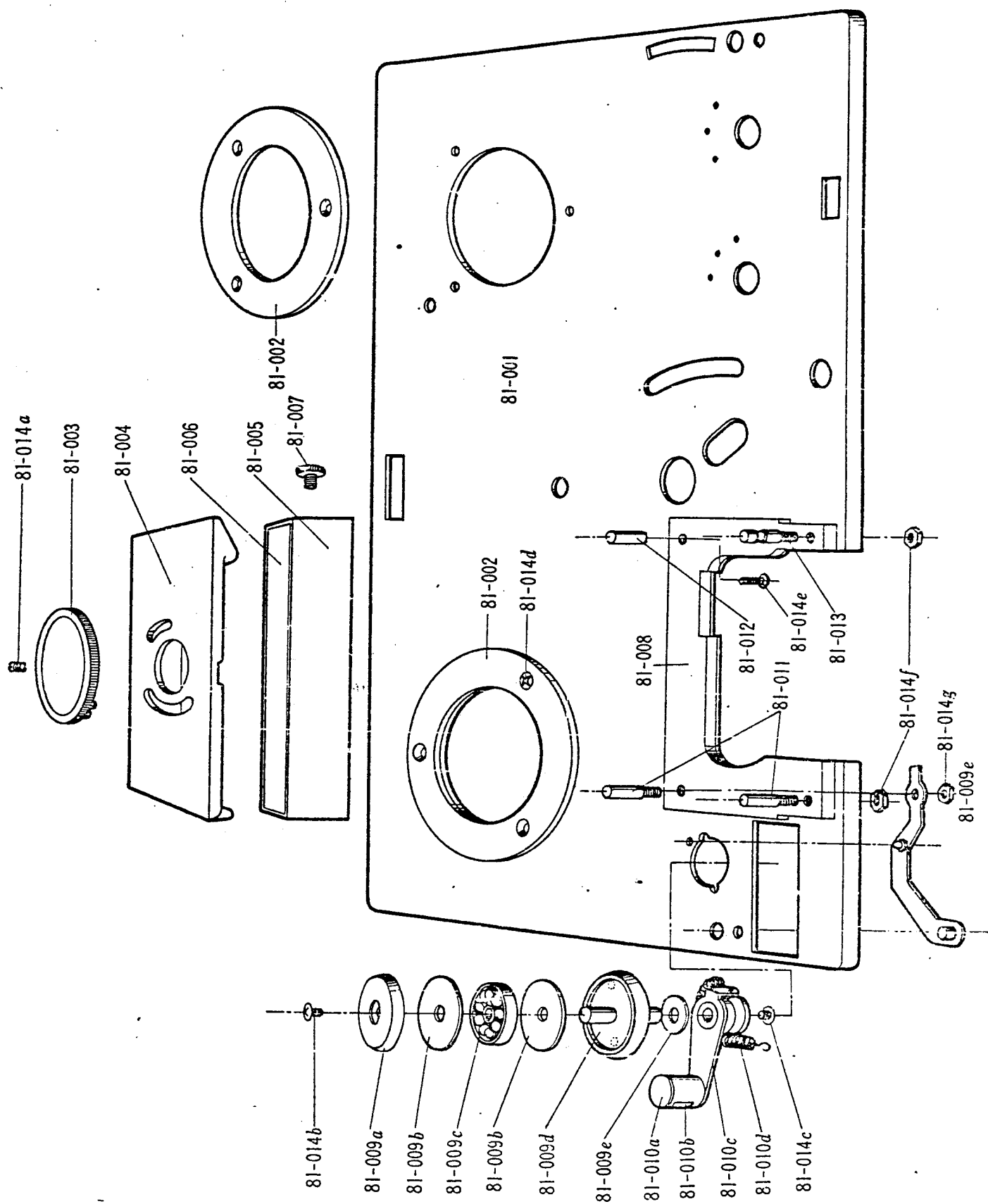
Parts No.	Nomenclature	
C27	Condenser, enclosed in AK4 500 PF	20021340
C28	Patting condenser 100 PF 1 KV	341
C29	Oil condenser 0.5 μ f 350 WV	342
C30a C30b	M. P. condenser 2.2+0.6 μ f 300 WV	
C31	Mylar condenser 0.002 μ f 400 WV	344
C32	Tubular type paper condenser 0.05 μ f 400 WV	345
8-F1	Fuse Post	20021346
F2	Fuse	347
8-J1	2 P Jack A	348
J2	2 P Jack A	349
J3	2 P Jack B	350
J4	2 P Jack A	351
J5	2 P Jack D	352
J6	4 P Jack	353
J7	1 P Jack	354
J8	5 P Jack (DIN Jack)	355
J9	4 P Jack	
J10	UZ Receptacle	357
J11	5 P Connector Jack	358
J12	1 P Jack	359
J13	3 P Jack	360
J14	4 P Jack	361
J15	AC Consent	362
J16	4 P Jack	
8-L1	Output transformer (5 K : 8 Ω)	20021364
L2	Oscillator coil (OSC-60-450)	20020832
L3	Choke coil (6H-60 mA)	20021366
8-M1	M 9 VU meter	20021367
8-NL1	Neon tube bracket neon	20021368
8-P1	4 P Plug	369
P2	UZ Plug	370
P3	1 P Plug	371
P4	4 P Plug	372
P5	AC Plug	373
P6	AC Plug	374
P7	4 P Plug	
P8	4 P Plug	
P9	5 P Connector plug	20021377
P10	1 P Plug	
8-PL1	Pilot lamp (meter lamp)	2002084
8-R1	P-type fixed resistor 1/4 P 100 K Ω	20020844
R2	P-type fixed resistor 1/4 P 1 K Ω	20021320
R3	L-type fixed resistor ALW 1 M Ω	381
R4	L-type fixed resistor ALY 10 K Ω	382
R5	P-type fixed resistor 1/4 P 500 K Ω	383
R6	L-type fixed resistor ALW 100 K Ω	384
R7	L-type fixed resistor CLY 250 K Ω	385
R8	Resistor, enclosed in AK2 100 K Ω	386
R9	L-type fixed resistor CLY 1 M Ω	387
R10	L-type fixed resistor ALW 100 K Ω	388
R11	L-type fixed resistor ALW 500 K Ω	389
R12	L-type fixed resistor ALW 5 K Ω	390
R13	L-type fixed resistor CLY 250 K Ω	391
R14	L-type fixed resistor ALY 2 K Ω	
R15	L-type fixed resistor ALY 50 K Ω	393
R16	L-type fixed resistor ALW 3 K Ω	394
R17	L-type fixed resistor CLY 250 K Ω	
R18	L-type fixed resistor ALW 500 K Ω	397
R19	L-type fixed resistor ALW 2 M Ω	398
R20	L-type fixed resistor ALW 500 K Ω	400
R21	L-type fixed resistor CLY 150 Ω	401
R22	L-type fixed resistor CLY 5 K Ω	402
R23	Resistor, enclosed in AK3 300 K Ω	403
R24	L-type fixed resistor ALW 1 M Ω	

Parts No.	Nomenclature	
R25	L-type fixed resistor ALW 5 K Ω	20021404
R26	Flexible fixed resistor 1 W 8 Ω	405
R27	L-type fixed resistor ALW 300 K Ω	406
R28	L-type fixed resistor ALW 5 K Ω	407
R29	L-type fixed resistor ALW 100 K Ω	408
R30	P-type fixed resistor 1/4 P 20 K Ω	409
R31	Flexible fixed resistor 1 W 8 Ω	410
R32	L-type fixed resistor ALW 100 Ω	411
R33	L-type fixed resistor ALW 30 Ω	412
R34	L-type fixed resistor ALW 500 Ω	413
R35	P-type fixed resistor 1/4 P 10 K Ω	414
8-SW1	Slide switch SL 62M	415
SW2	Toggle switch F-103A	416
SW3	Rotary switch attached to VR1	417
SW4	Rotary switch 1-2-3 switch	418
SWS	Toggle switch F-103A	419
SW6	Rotary switch head change-over switch	420
SW7	Rotary switch c/s change-over	421
SW8	Micro switch	422
SW9	8 P Slide switch for motor speed change	423
SW10	Micro switch, automatic shut-off, for power source	424
SW11	6 P Slide switch, automatic shut-off, for power source	
SW12	Push switch, speaker on/off	
8-T1	Power transformer	20020892
8-TB1	40 P lug plate	
TB2	3 P lug plate	
8-V1	Vacuum tube 6267	20020904
V2	Vacuum tube 12AD7	20020905
V3	Vacuum tube 6BQ5	20020901
V4	Vacuum tube 6AR5	20020902
V5	Vacuum tube 6X4	20020903
8-VS1	Vacuum tube socket, 9 P mould type with sheath	
VS2	Vacuum tube socket, 9 P mould type with sheath	
VS3	Vacuum tube socket, 9 P mould type	
VS4	Vacuum tube socket, 7 P mould type	
VS5	Vacuum tube socket, 7 P mould type	
8-Z101	Amplifier knob A Equalizer	20021442
Z102	Amplifier knob B Tone	20021443
Z103	Amplifier knob C Volume	20021444
Z104	Shield plate amplifier shield parts	20021445
Z105	Shield plate output shield plate	446
Z106	Rubber cap shield rubber V1 cap	447
Z107	Clamp for 7 P	448
Z108	Clamp for 9 P	449
Z109	Amplifier lever set screw	450
Z110	Support AC receptacle support	451
Z111	Spring, left amplifier, attached to amplifier lever	452
Z112	+Screw flat mould 4x6	453
Z113	Amplifier lever, left	454
Z114	Cord clamp C	455
Z115	3 mm nut	456
Z116	Mounting post, 4 P jack	457
Z117	Screw, without head 4x6.5	458
Z118	Screw, without head 4x8.5	459
Z119	Screw, without head 4x10.7	460
Z123	Push button	461
Z124	S. O. S Push switch button	462
Z125	S. O. S Push switch	463
Z126	S. O. S Push switch lever	464
Z127	S. O. S Sub-amplifier lever	465
Z128	Amplifier lever, right	466
Z129	Spring, C	467
Z130	Spring, R	468

Vol Cont LER 20020877 - 14 - M3 Case lid 20021432.

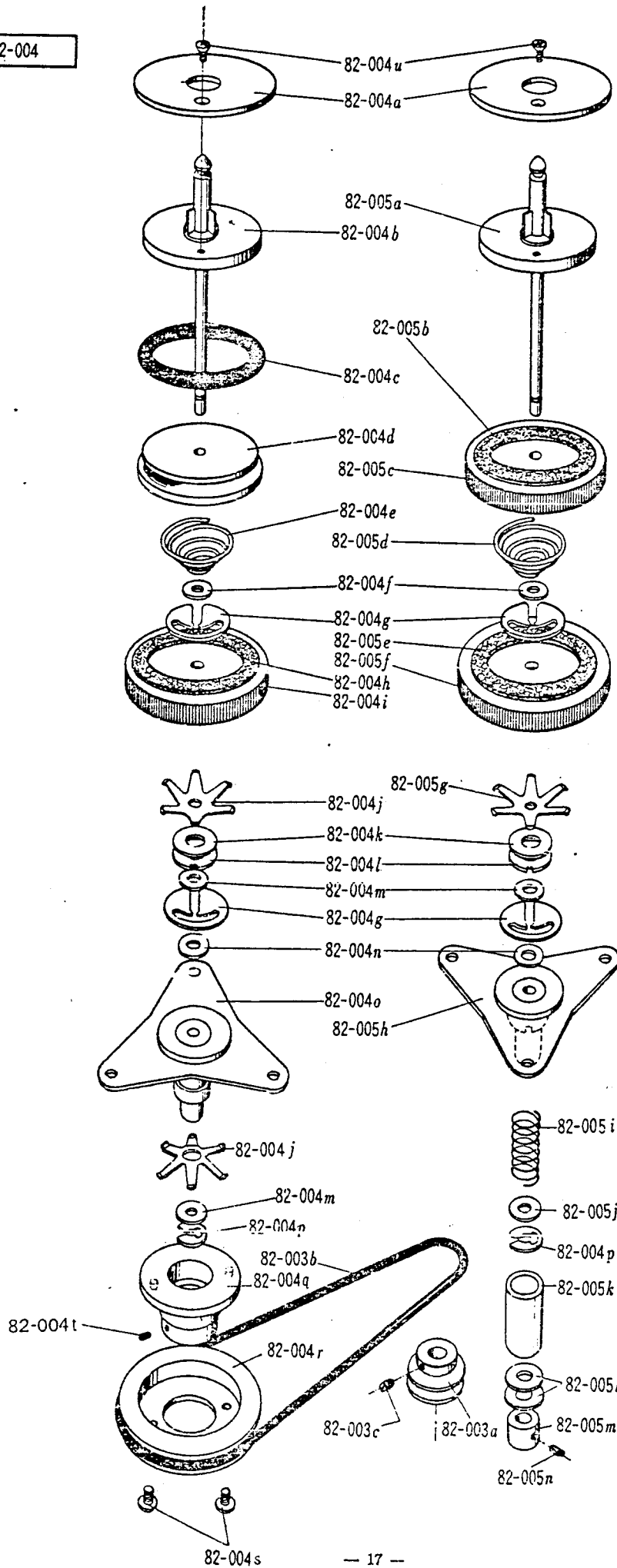
X EXPLODED VIEW OF COMPONENT PARTS



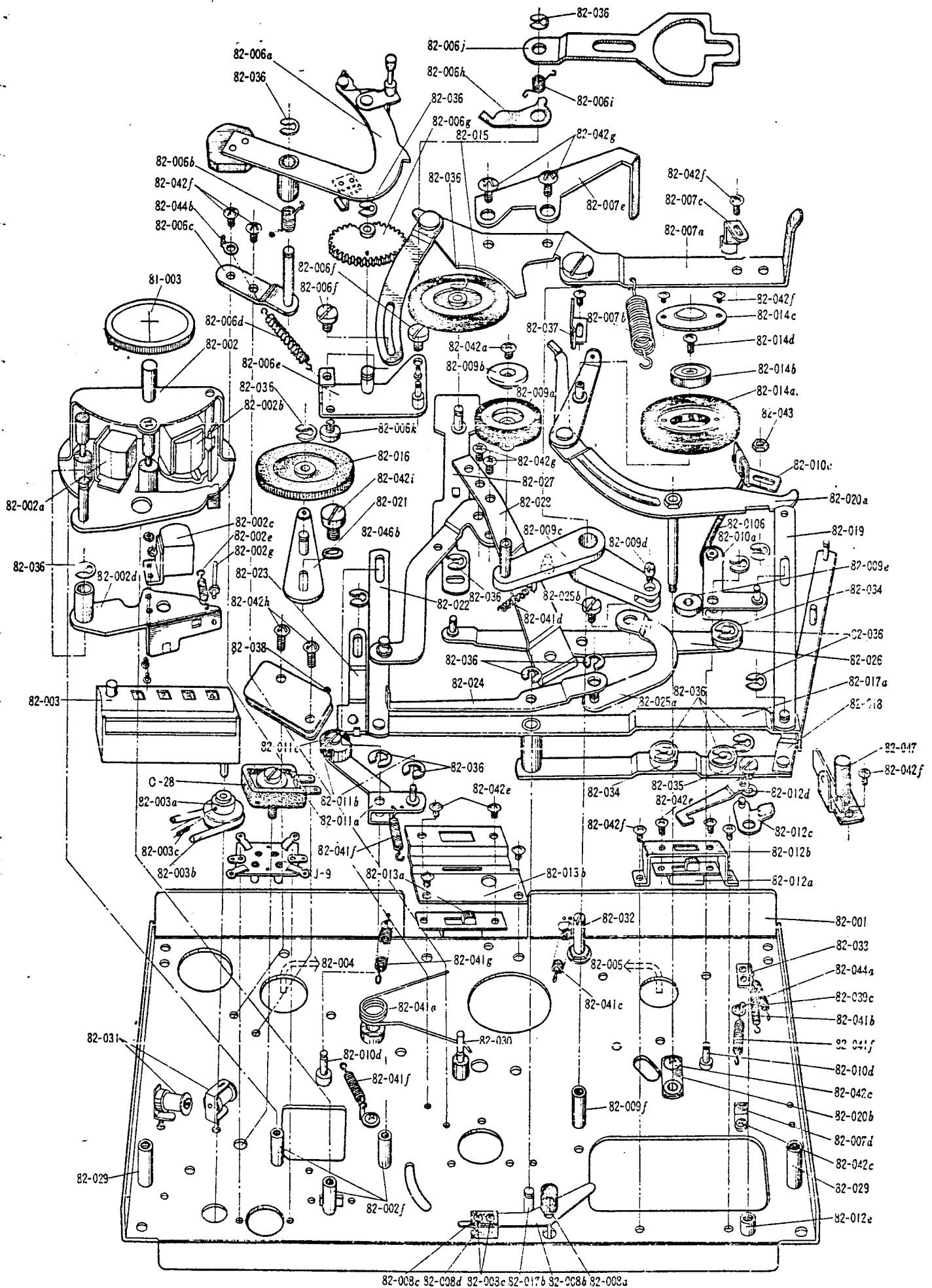


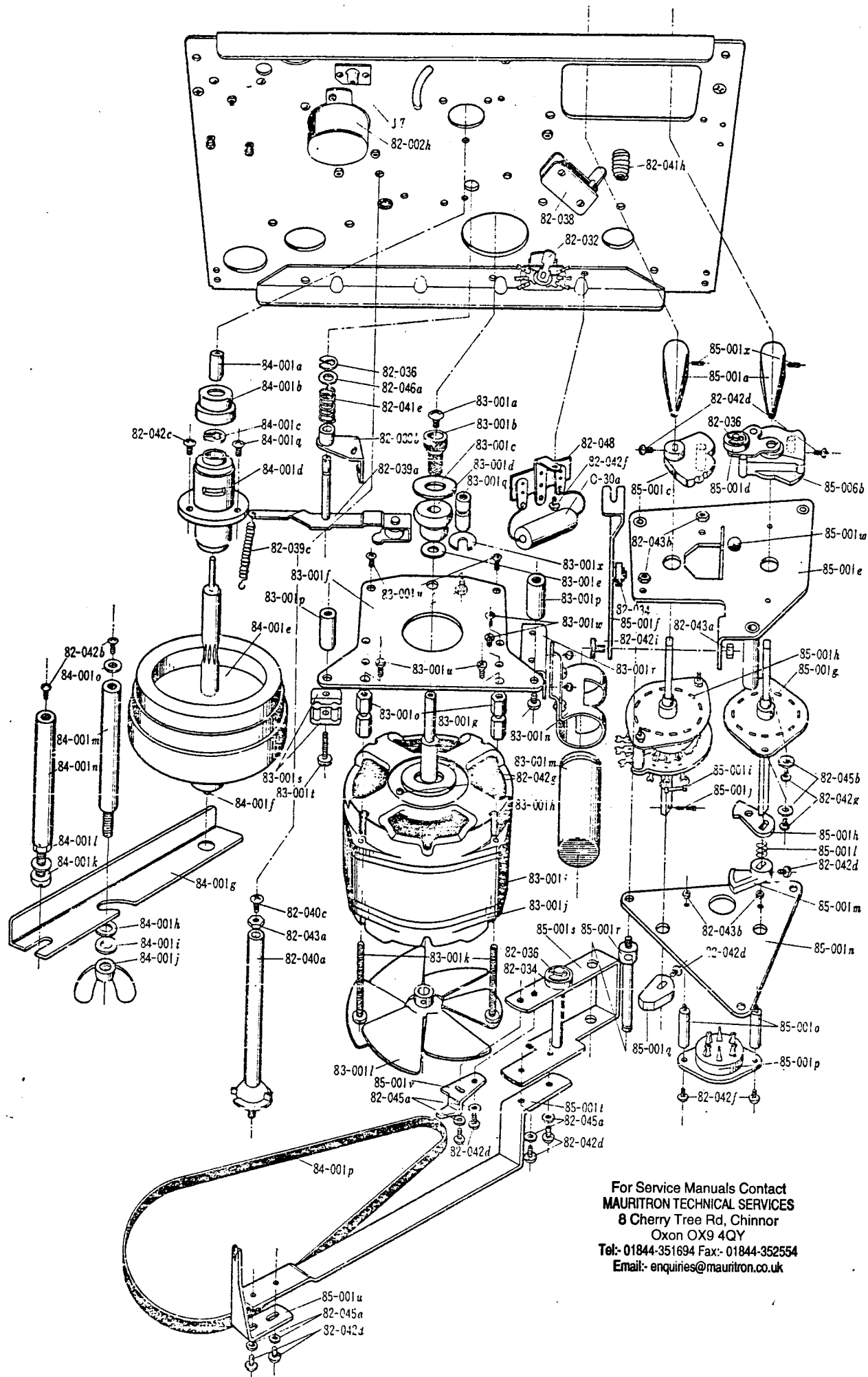
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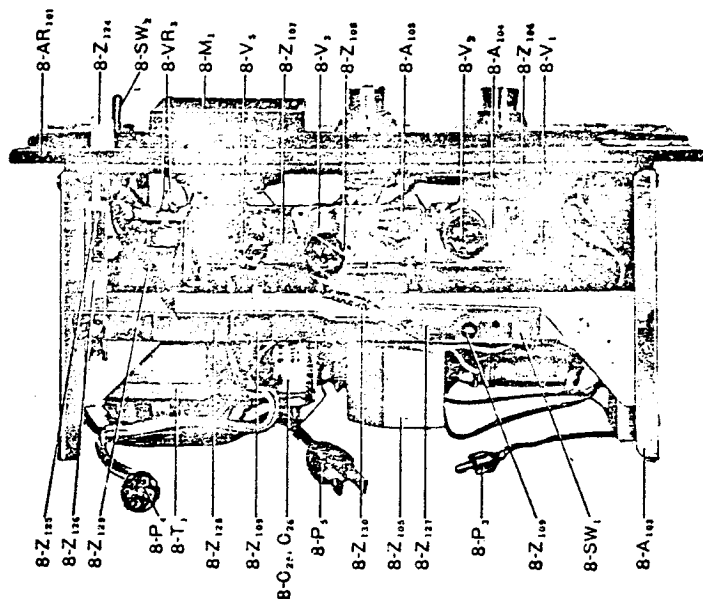




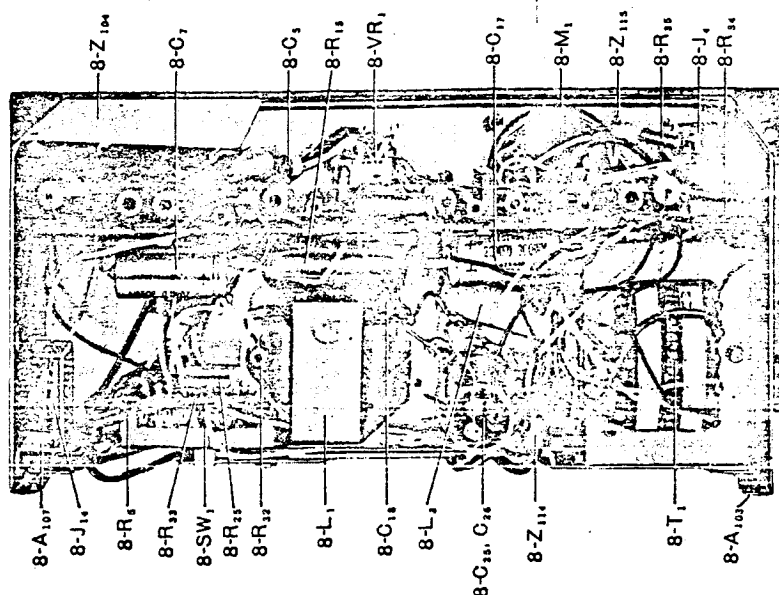
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 Email: enquiries@mauritron.co.uk

Right Amplifier

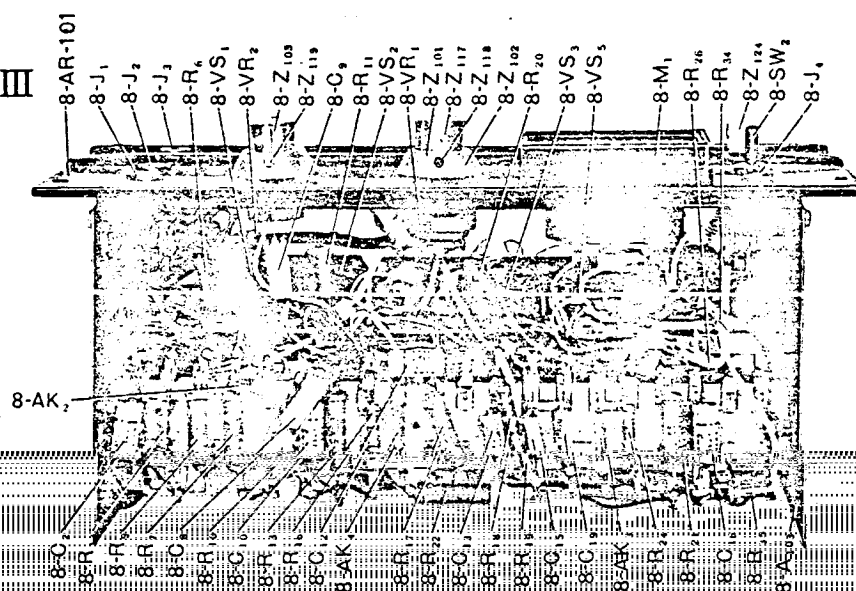
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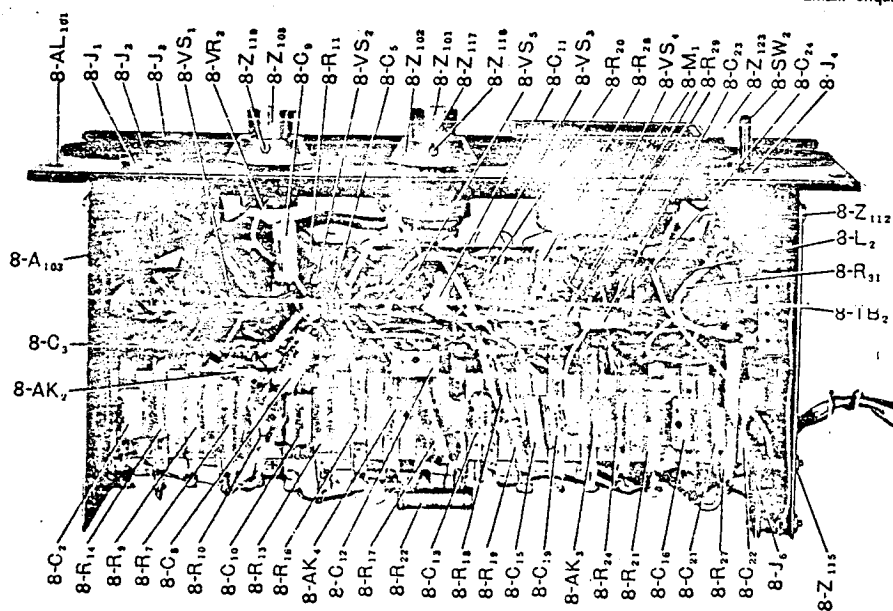
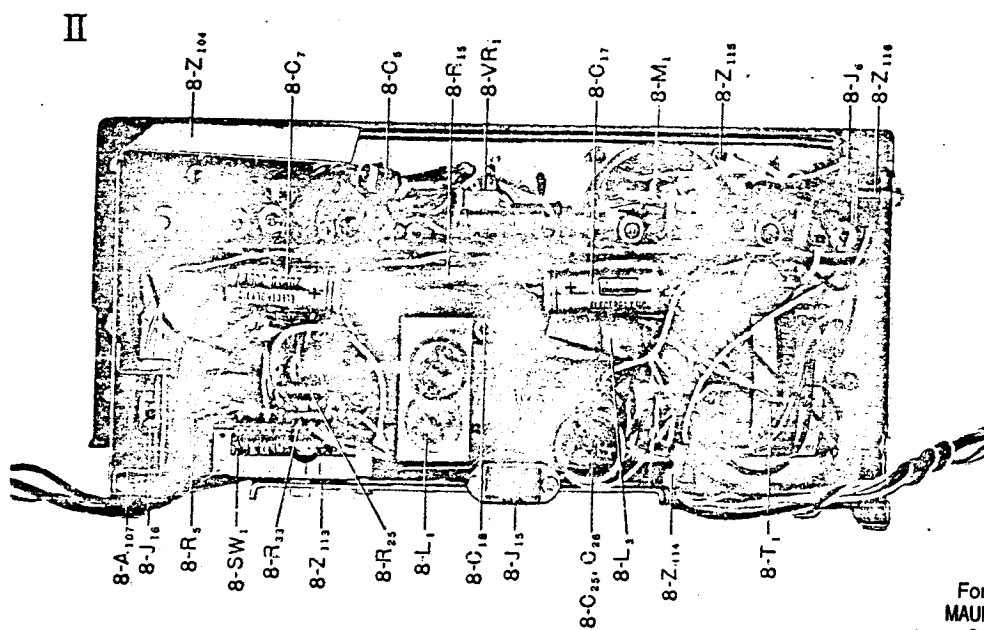
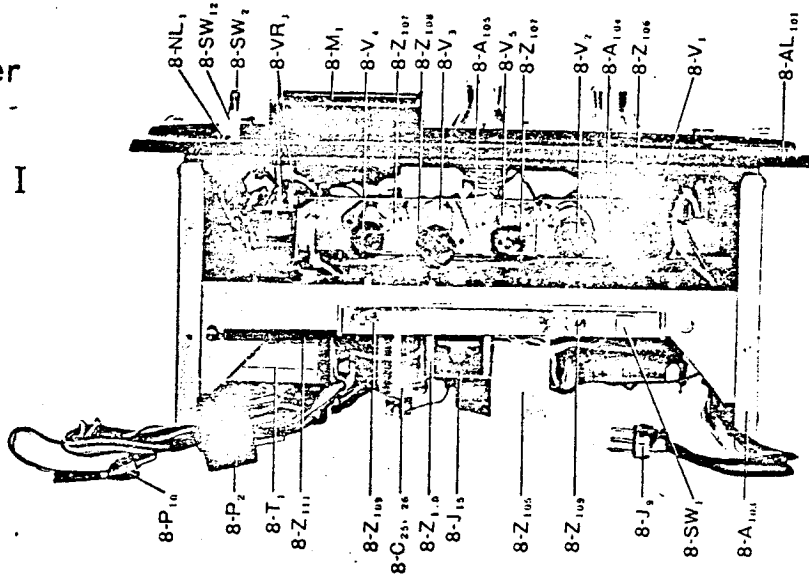
II



III

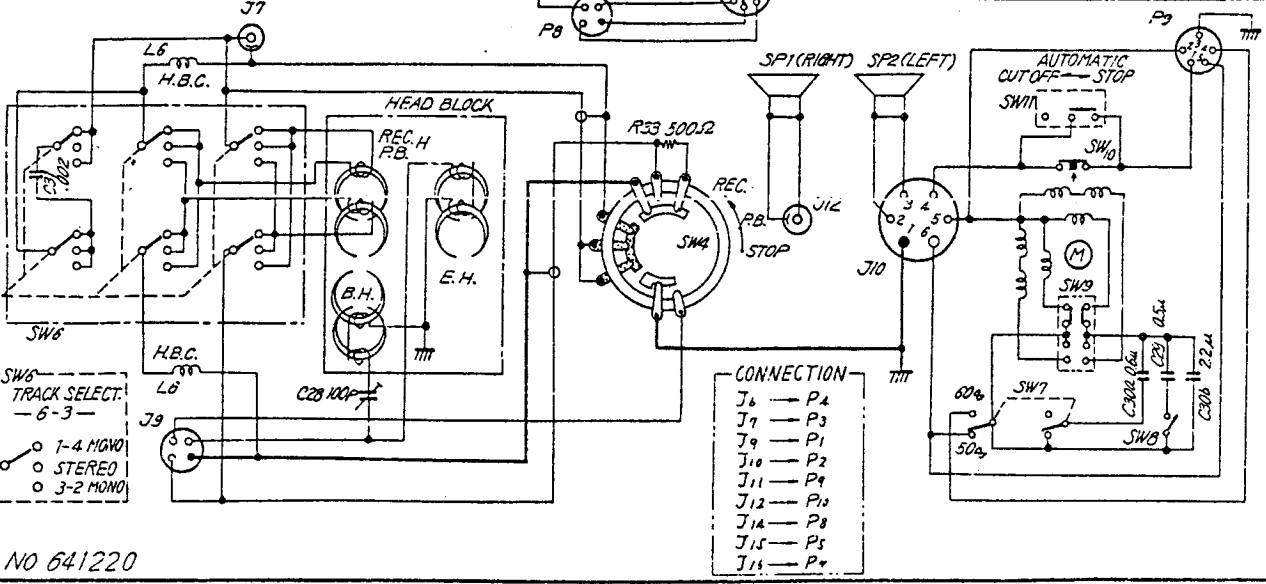
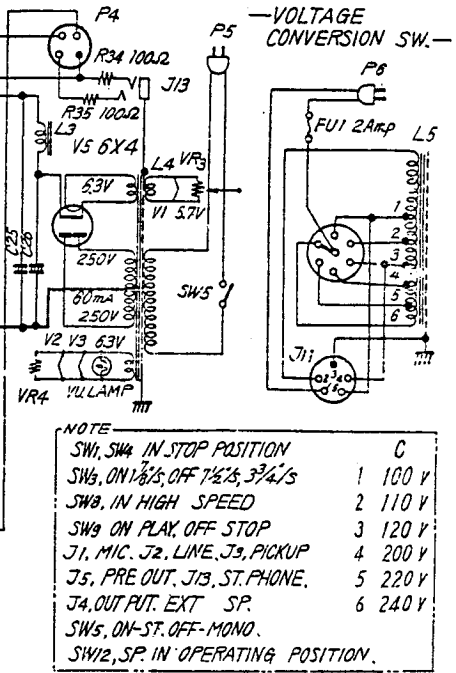
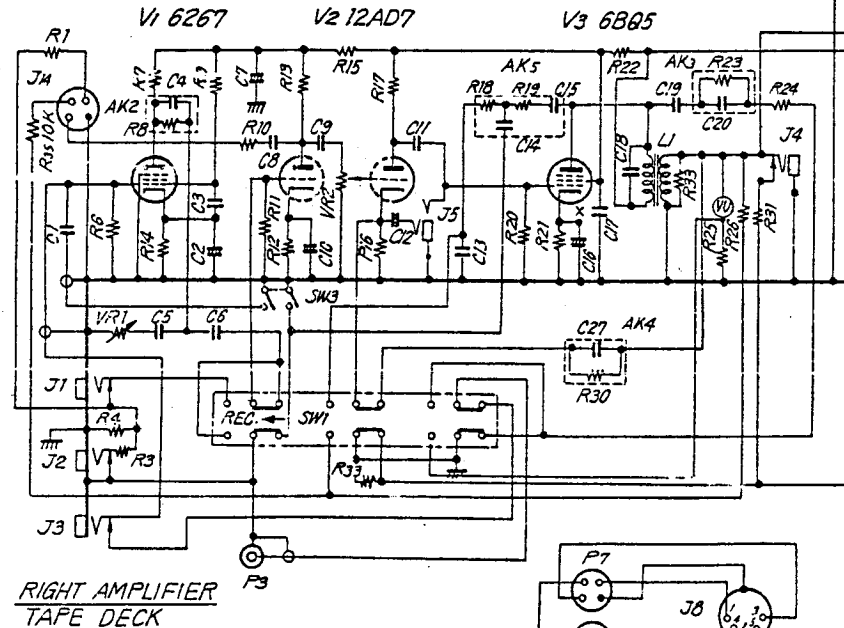
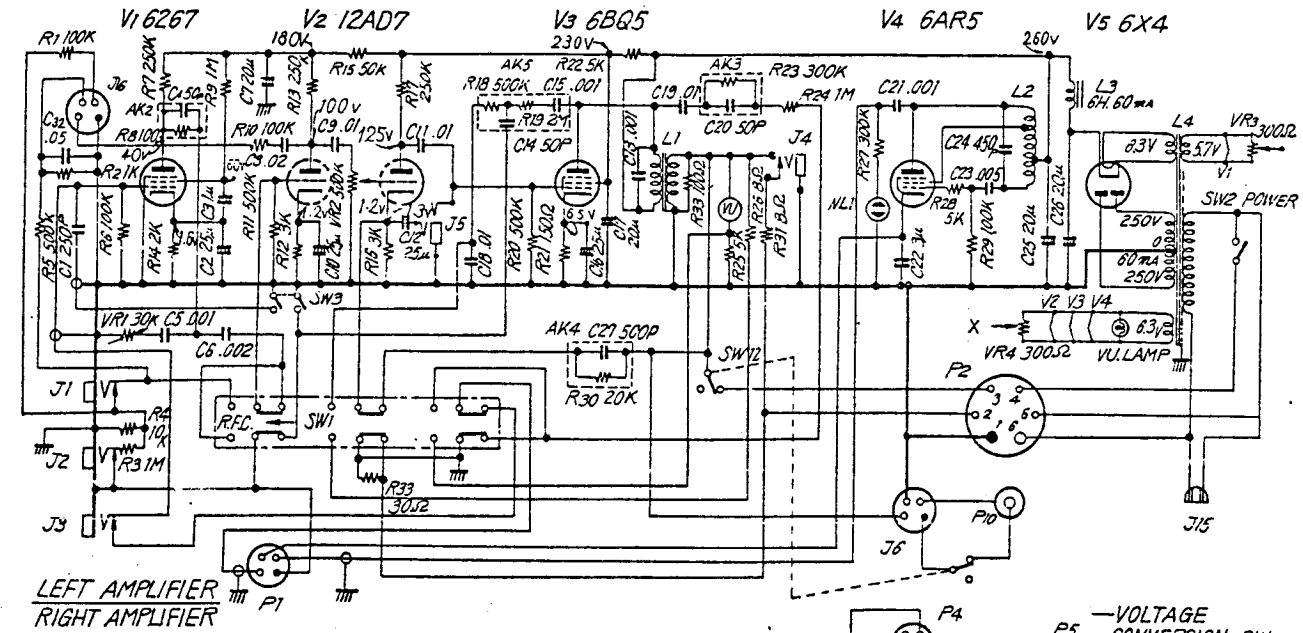


Left
Amplifier



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MODEL M-8 SCHEMATIC

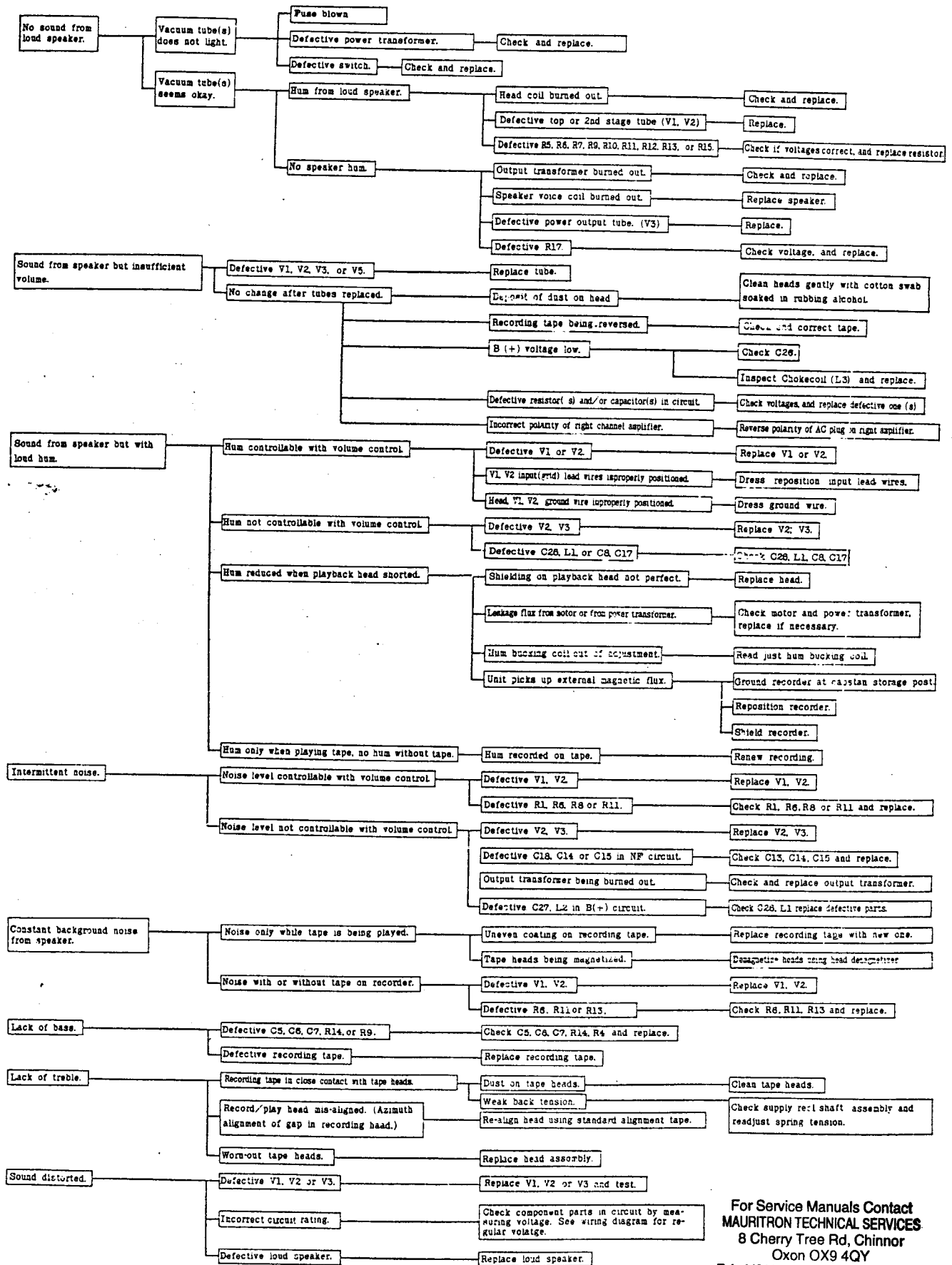


NO 641220

XII TROUBLE SHOOTING CHART FOR MODEL M-8

SECTION "A" TROUBLES WITH AMPLIFIER

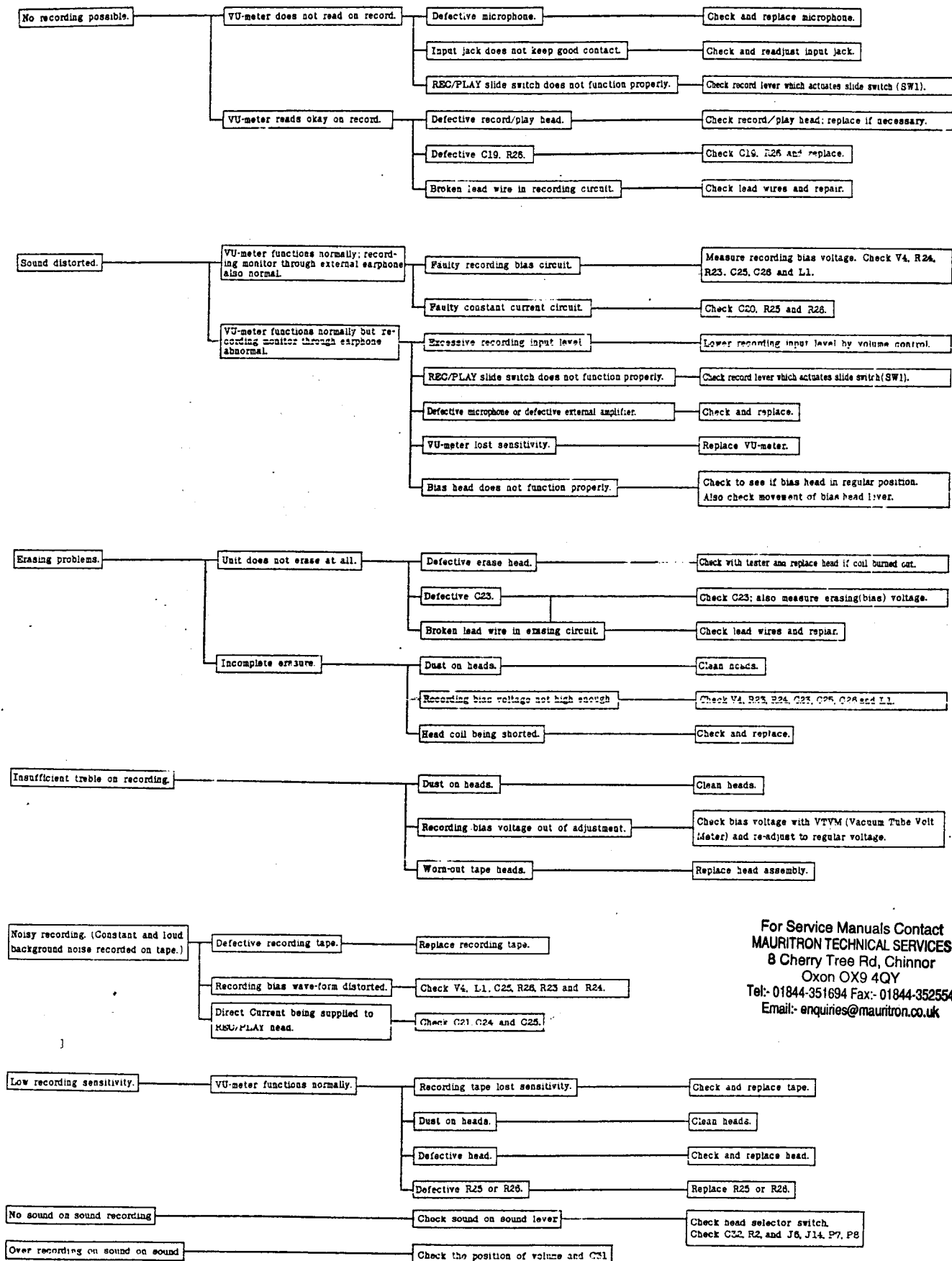
1. Playback problems. (Unit set in play position.)



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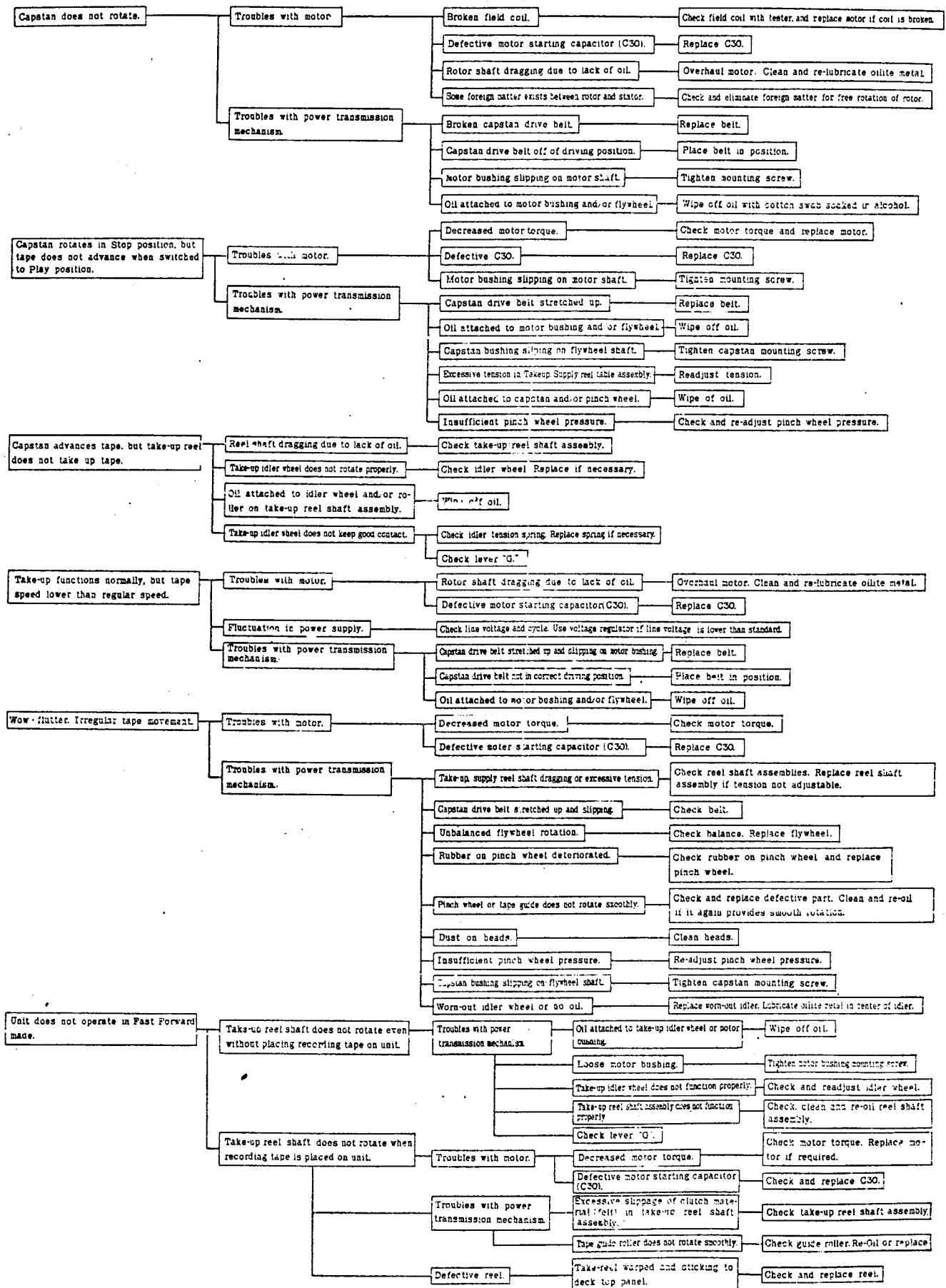
2. Recording Problems.

(Unit plays back pre-recorded tapes okay, but recording not satisfactory.)

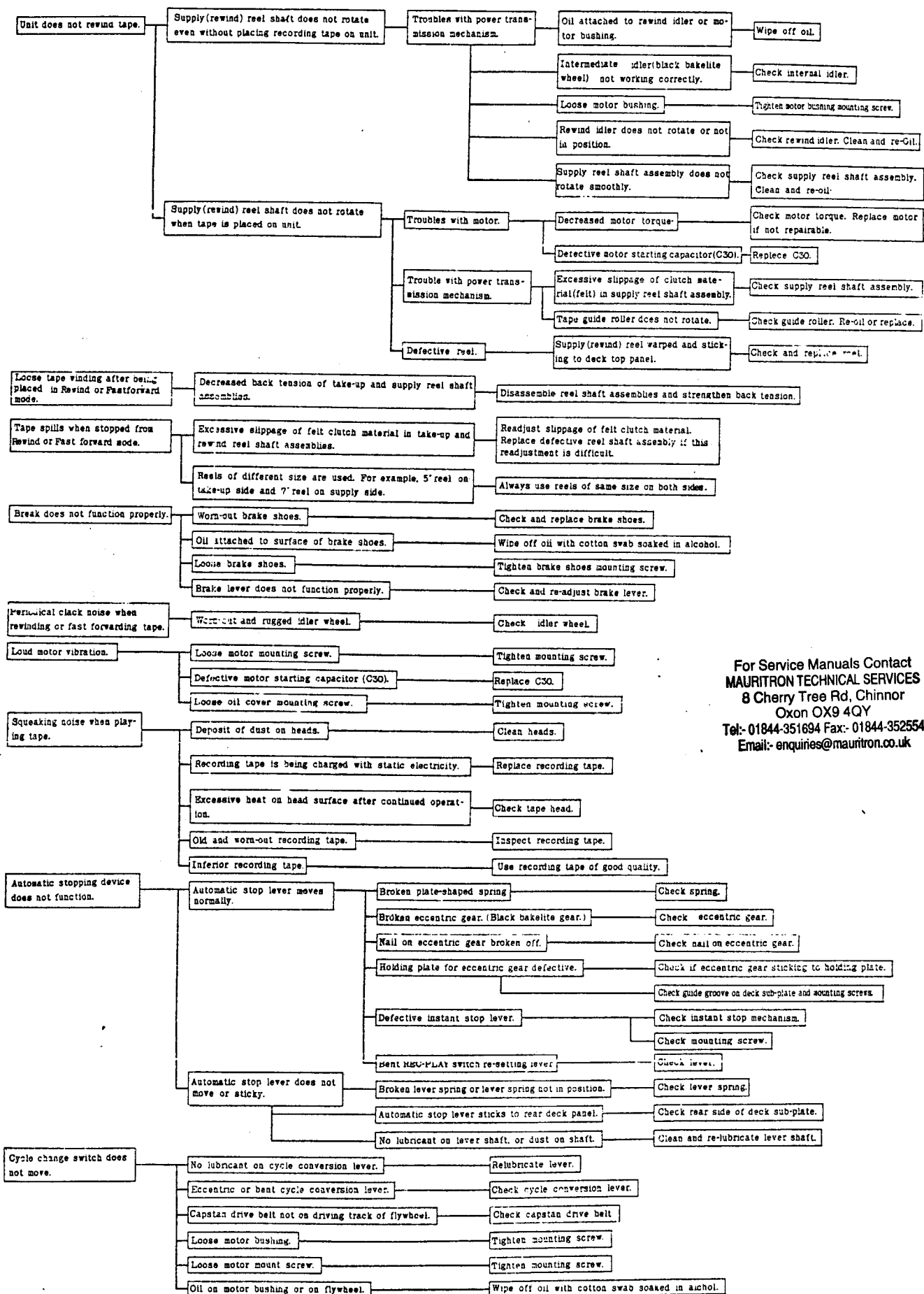


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SECTION "B" TROUBLES WITH TAPE TRANSPORT MECHANISM.



SECTION "B" TROUBLES WITH TAPE TRANSPORT MECHANISM.



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XIII MODEL M-8 CONNECTING DIAGRAM

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