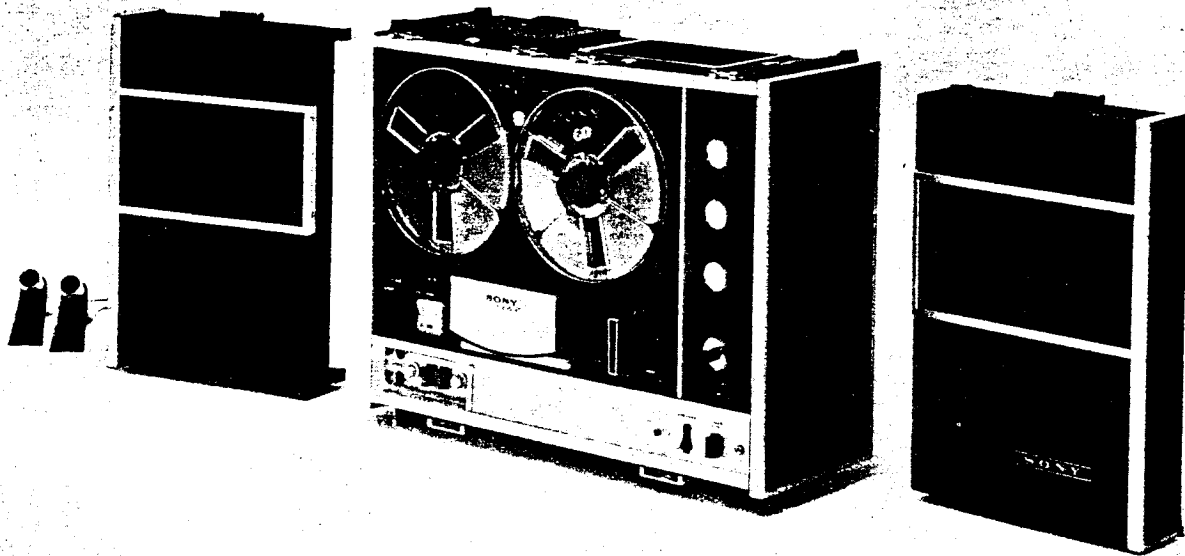


Serial No.122,351 and after
Except Serial No. 124,851~125,850

TC-530



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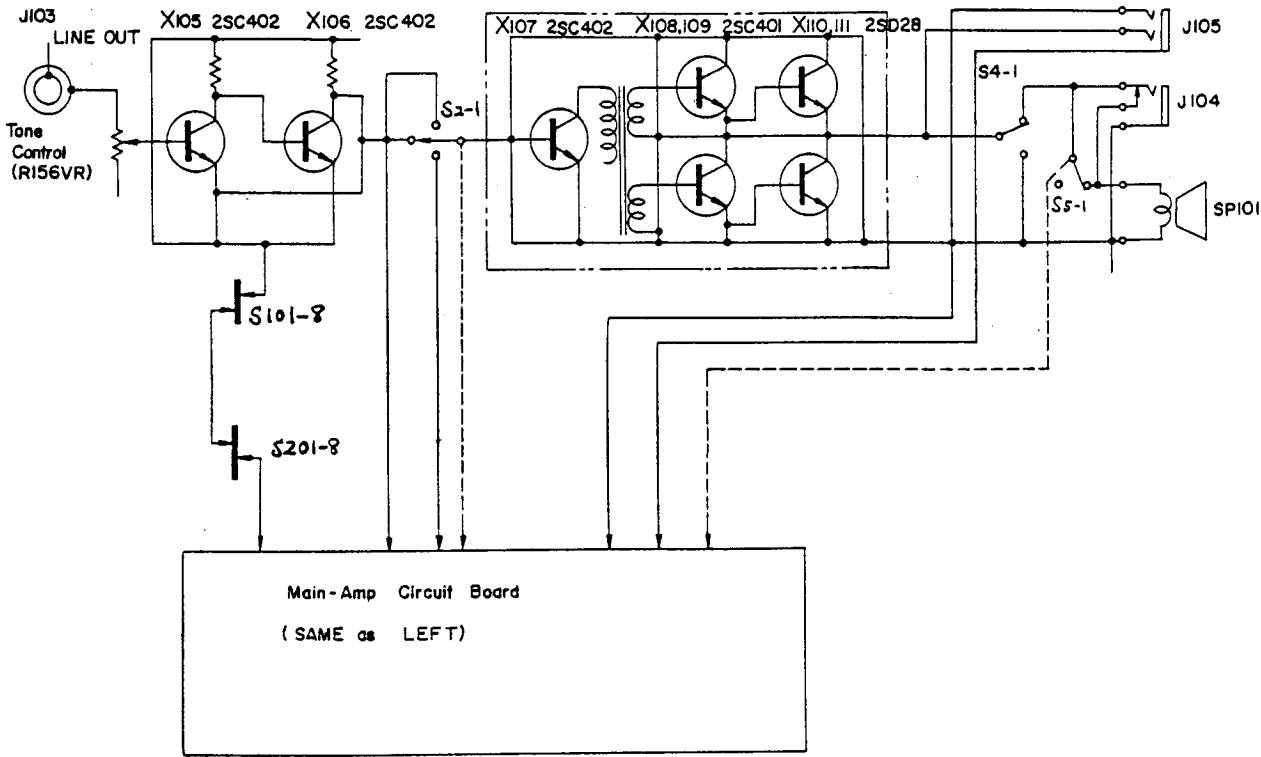
Specifications

Power Requirements:	AC 100, 110, 117, 125, 220 or 240V, 65 watts, with voltage selector, 50/60 cps Only AC 60 c/s 117 V for U.S.A Only AC 50/60 cps 117V for Canada	Integrated Record/ Playback Connector:	Input : -62 db (0.6 mV) Impedance 10K ohms Output: 0 db (0.775 V) Impedance 10K ohms
Tape Speed:	7½ ips., 3¾ ips. and 1⅞ ips. (19, 9.5 and 4.75 cm/s), instantaneous switching with automatic equalization change	Recording Time:	4-track stereo 4-track monophonic (with 1,800' tape) 1 hr. 30 min. 3 hrs. at 7½ ips. 3 hrs. 6 hrs. at 3¾ ips. 6 hrs. 12 hrs. at 1⅞ ips.
Reels:	7" (18 cm) or smaller	Transistors:	2SC401 (8), 2SC402 (8), 2SC318 (2), 2SD28 (4), 2SB383 (2)
Recording System:	4-track stereophonic or monophonic	Diodes:	5GD (4), 1T22 (4)
Frequency Response:	30~20,000 cps at 7½ ips. (19 cm/s) ±3 db 50~15,000 cps at 7½ ips. (19 cm/s) 30~13,000 cps at 3¾ ips. (9.5 cm/s) 30~10,000 cps at 1⅞ ips. (4.75 cm/s)	Record/Playback Head:	PP30-4202N1
Flutter and Wow:	Less than 0.17% at 7½ ips. (19 cm/s) Less than 0.3% at 3¾ ips. (9.5 cm/s) Less than 0.4% at 1⅞ ips. (4.75 cm/s)	Erase Head:	EF18-2902H
Power Output:	20 watts total (music power) 10 watts total (undistorted)	Dimensions:	19¼" (W) × 19¼" (H) × 15¼" (D) (500 × 252 × 391 mm)
Signal-to-noise Ratio:	Better than 48 db (at peak record level)	Weight:	41 lbs. 10 ozs. (19 kgs.)
Harmonic Distortion:	Less than 3% at 0 db line output		
Level Indication:	VU meters calibrated to NAB standard		
Tone Controls:	Two separate controls for bass and treble		
Inputs:	Low impedance microphone inputs: transistorized (with accommodate any microphone from 250 to 1K ohm impedance) -72 dbs (0.19 mV) High impedance (100 K ohms) auxiliary inputs: -22 dbs (0.06 V)		
Outputs:	Line outputs: 0 db (0.775 V), load impedance 100K ohms Speaker outputs: load impedance 8 ohms Binaural monitor output: will accommodate stereo headset Model DR-3C (10 K ohm impedance)		

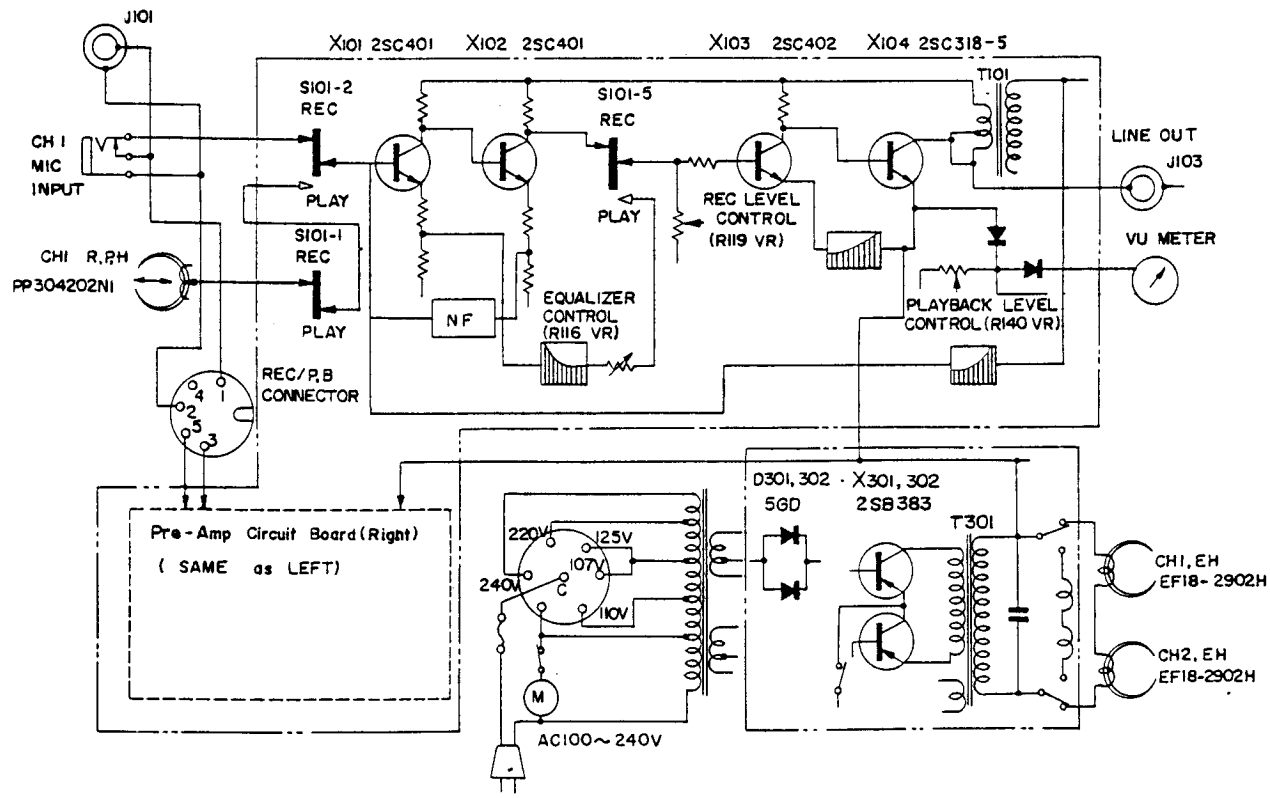
SONY®
SERVICING GUIDE

Block Diagram

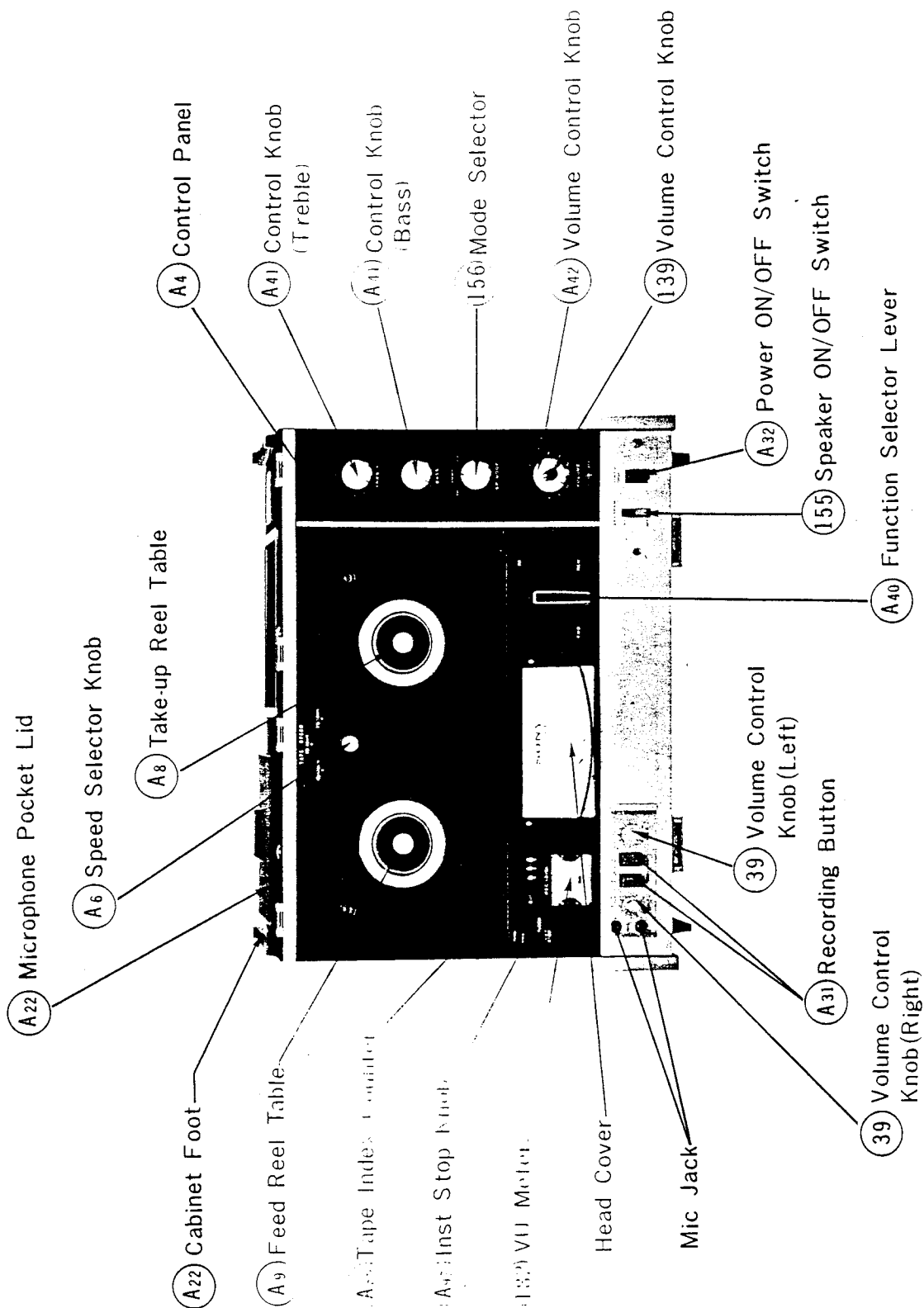
Main Amplifier



Pre-Amplifier

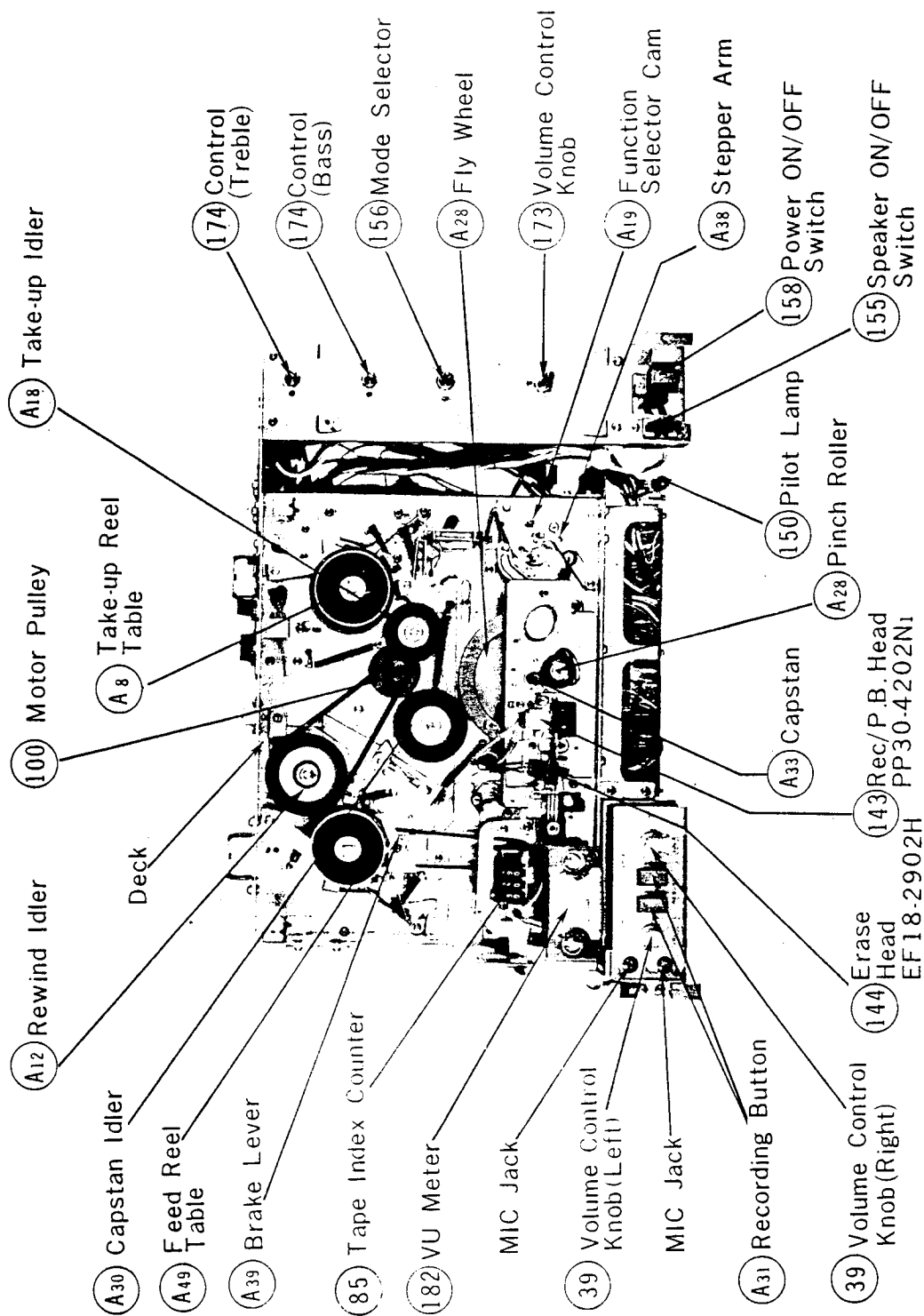


Cabinet Top View



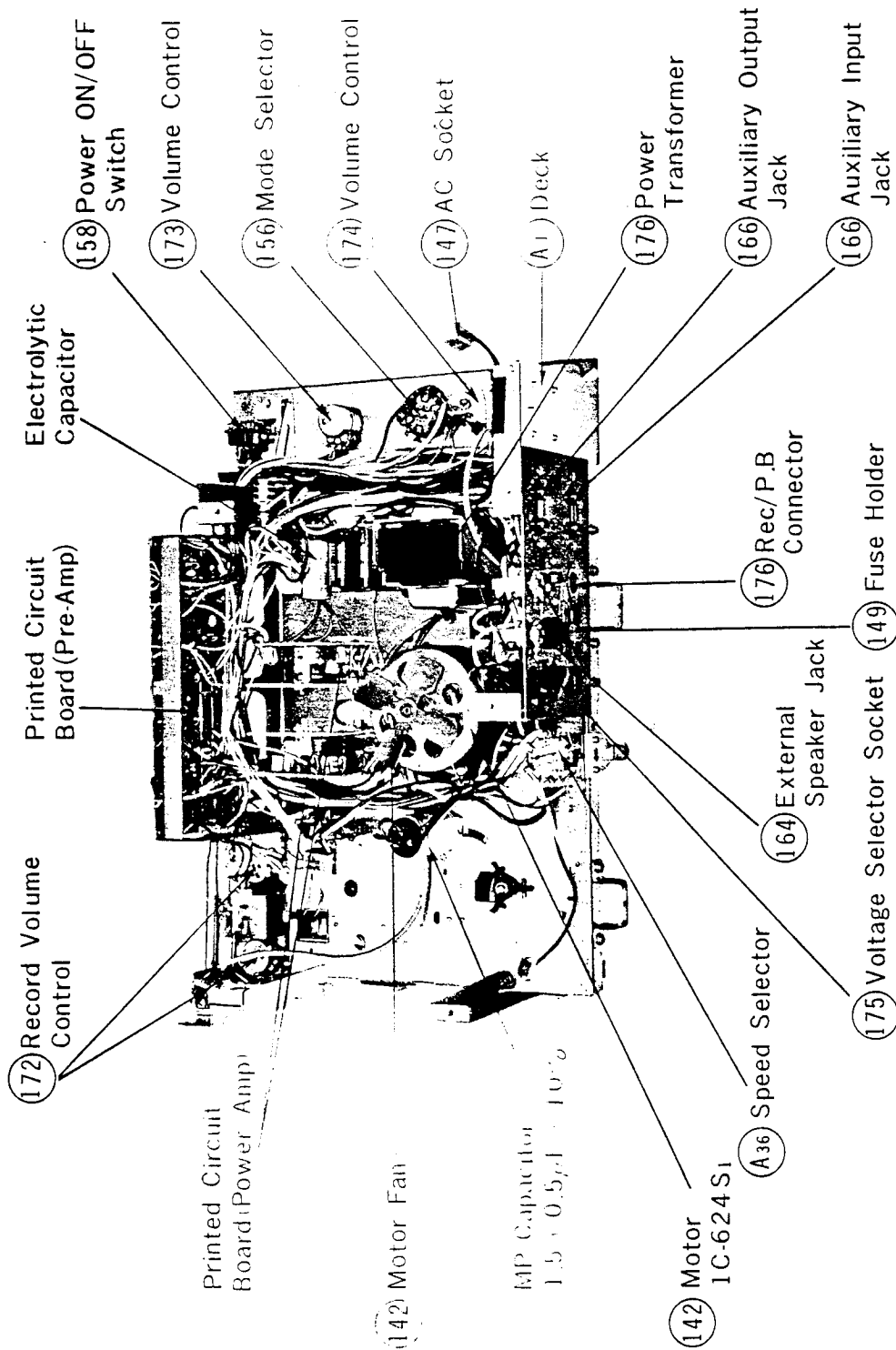
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Chassis Top View



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Chassis Bottom View



Removal of Cabinet

- (1) Turn up-side down the recorder on a soft pad.
- (2) Remove five screws (\oplus RF $4\phi \times 15$ marked with \blacktriangle in Fig. 5), two screws (\oplus RK $4\phi \times 35$ marked with \triangle in Fig. 5), seven Cabinet Spacer and Fuse Holder as shown in Fig. 5.
- (3) Lift up the cabinet gently.

Removal of Reel Panel

- (1) Remove Head Cover in Fig. 2.
- (2) Remove Function Selector Knob, Speed Selector Knob, Pinch Roller and Instant Knob by loosening the respective Set Screws in Fig. 2.
- (3) Remove two Screws (\oplus B $3\phi \times 6$ marked with \blacktriangledown in Fig. 6), two 3ϕ Washers, one Screw (\oplus B $2.6\phi \times 10$ marked with \blacktriangledown in Fig. 6) and one Washer as shown in Fig. 6.
- (4) Remove two Tape Guide Pin as shown in Fig. 6.
- (5) Now Reel Panel can be removed and main mechanism can be checked.

NOTE: When re-assembling the Reel Panel, the shafts of knobs must be located just at the center of the respective holes.

Removal of Control Panel

- (1) Remove the Control Knobs, (Treble, Bass, SP. mode) and Volume Control Knob in Fig. 2.
- (2) Turn up-side down the recorder on a soft pad.
- (3) Remove four Nuts (3ϕ marked with \bullet in Fig. 7.)
- (4) Turn lower-side up gently.
- (5) Lift up the Control Panel gently as shown in Fig. 7).

NOTE: When re-assembling the Control Panel, the side (marked with \bigcirc in circle in Fig. 7) must to touch uniformly.

Removal of Printed Circuit Boards

Printed Circuit Boards can be checked without disassembling. When it is necessary to remove the Circuit Boards, proceed as follows:

Circuit Board for Pre-Amplifier Section

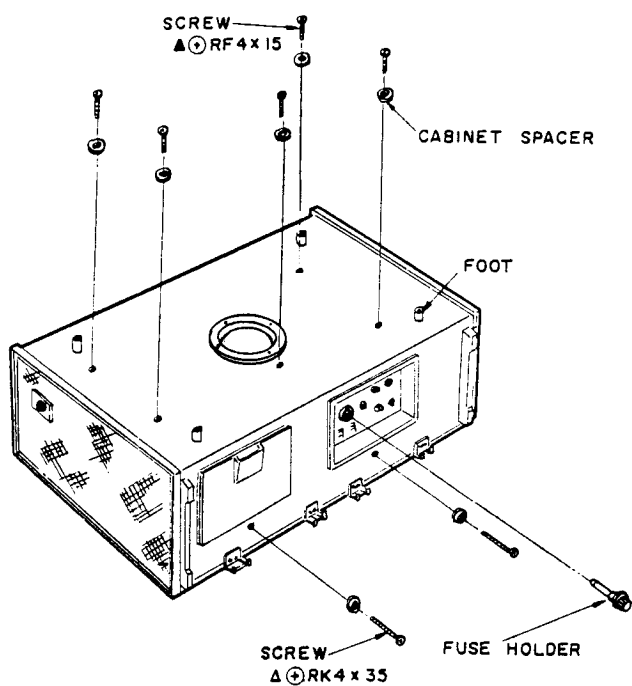
- (1) Remove three screws (\oplus RF $4\phi \times 6$ marked with \bigcirc in Fig. 8) and three spring washers as shown in Fig. 8.
- (2) Take out two holding screws (\oplus RF $3\phi \times 6$ marked with \bullet in Fig. 8) and two spring washers and two washers as shown in Fig. 8.

Circuit Board for Power Amplifier Section

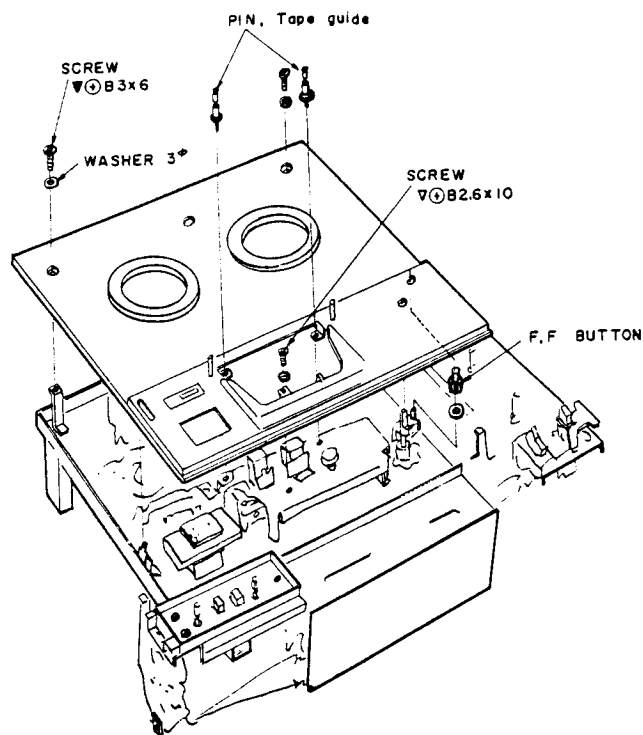
- (1) Remove the three screws (\oplus RF $3\phi \times 6$ marked with \triangle in Fig. 9), three spring washers and three washers of channel-1 as shown in Fig. 9.
- (2) Channel-2 is same as channel-1.

Circuit Board for Power Supply and OSC Section

- (1) Remove the three screws (\oplus RF $3\phi \times 6$ marked with \blacktriangle in Fig. 10) and three spring washers as shown in Fig. 10.

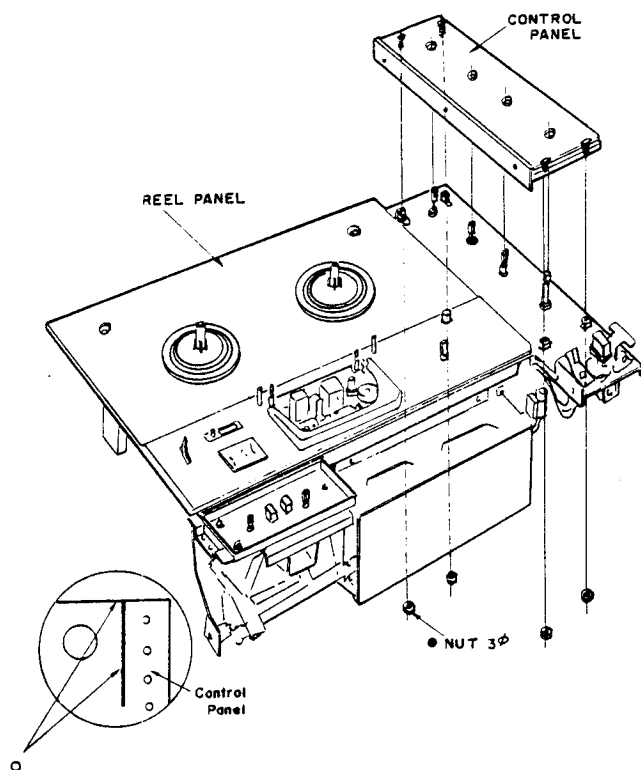


(Fig. 5)

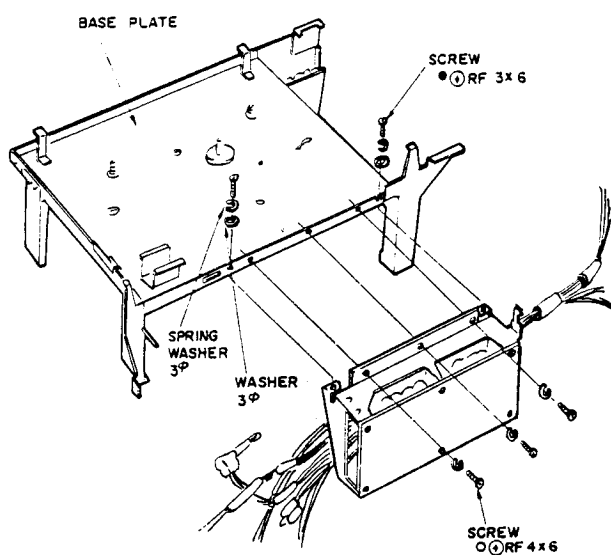


(Fig. 6)

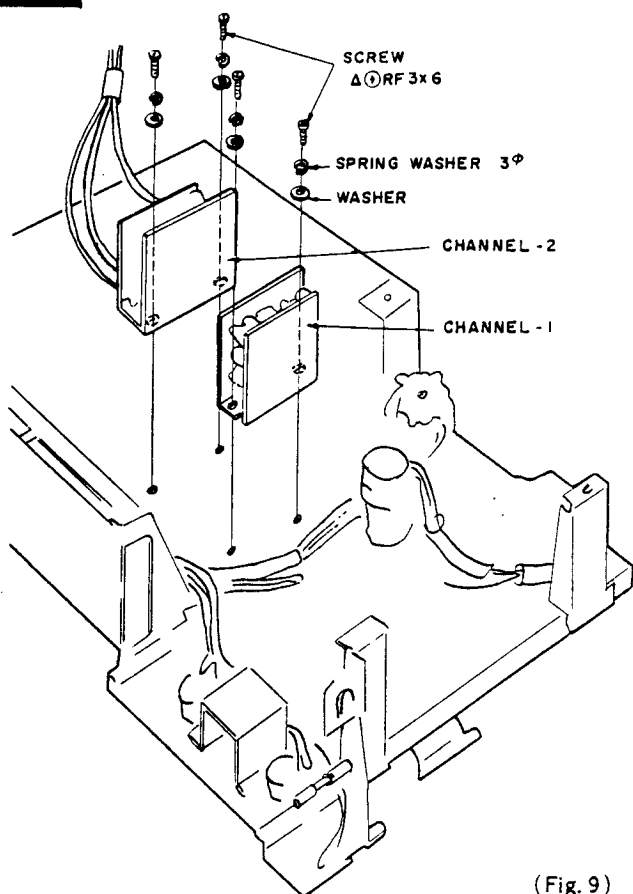
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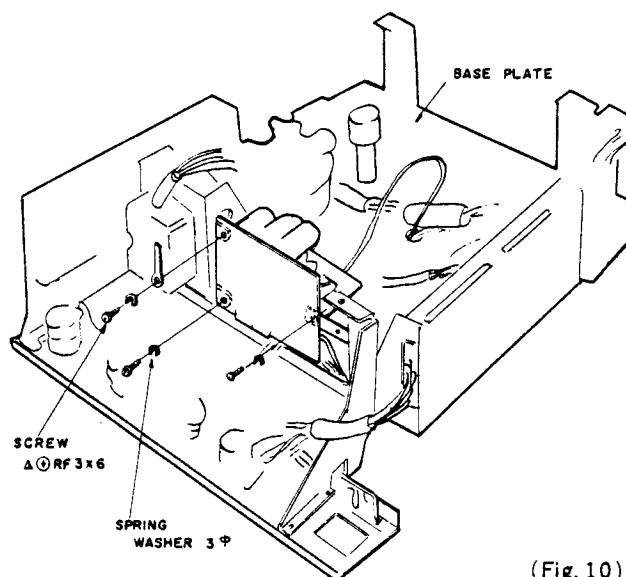
(Fig. 7)



(Fig. 8)



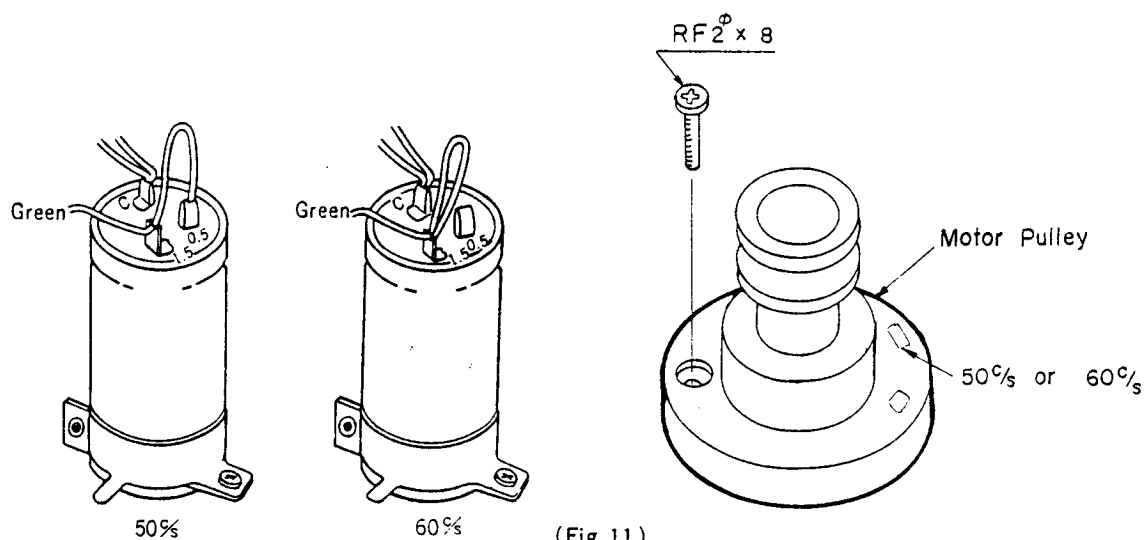
(Fig. 9)



(Fig. 10)

Modification to different Power line frequency

	For 50 c/s	For 60 c/s
1. Connection between terminals of the Metalized Paper Capacitor (MP.)	Connected ($1.5 \mu\text{F} - 0.5 \mu\text{F}$)	Disconnected ($1.5 \mu\text{F}$)
2. Motor Pulley	3-418-210- 45.46 mm ϕ	3-418-211- 37.8 mm ϕ



(Fig. 11)

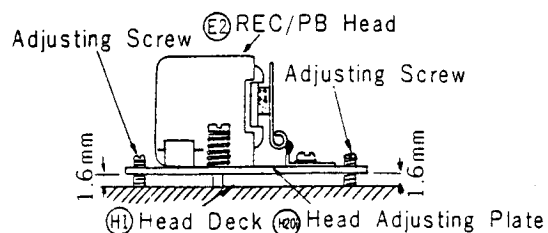
Mechanical Adjustment

Elevation Alignment

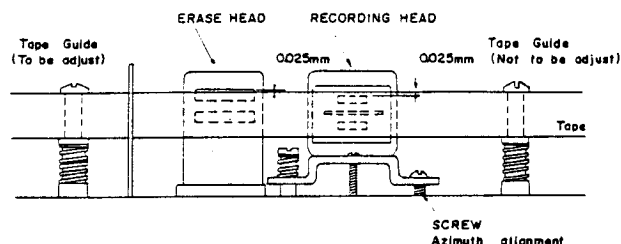
The exact vertical positionings of Head are adjusted at the factory and should never need readjustment.

However, when replacing Head or Tape Guide, height of the replaced part in relation to the tape should be checked as follows:

- (1) Thread a tape.
- (2) Align the upper edges of the Head Cores and upper edge of the tape by turning the Tape Guide located on the left side of the Erase Head.
- (3) Turn the Tape Guide clockwise by approximately 20° from the position obtained in the preceding process, so that the upper edge of the tape is approximately 0.025 mm lower than that of the Erase Head Core.



(Fig. 12)

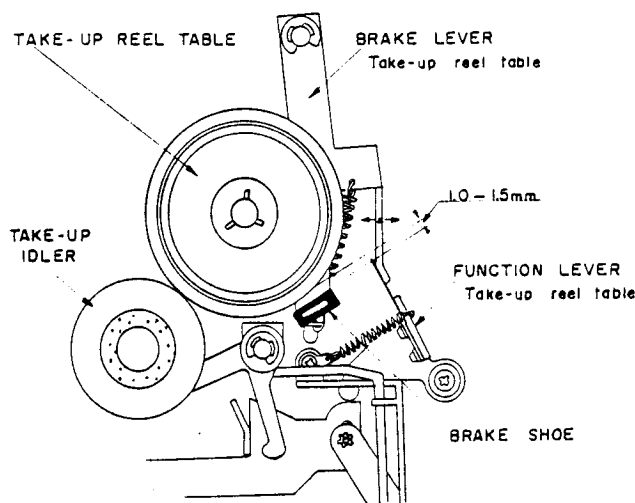


(Fig. 13)

Brake Alignment

When the tape slacks at stop mode, adjust the Brake as follows. Refer to Fig. 14.

- (1) Set the Function Selector Knob to forward position.
- (2) Bend the Brake Operating Levers to right or left, so that the clearance between the Brake Shoe and the take-up Reel Table must keep between 1.0~1.5 mm.



(Fig. 14)

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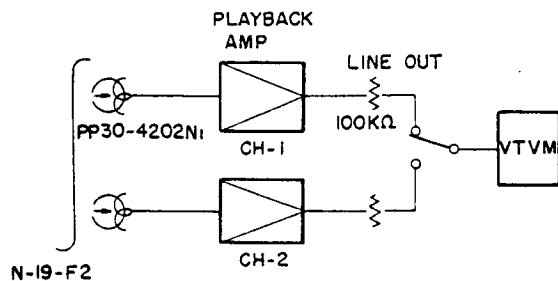
Electrical Adjustment

The alignment is to be performed at a tape speed of $7\frac{1}{2}$ ips unless otherwise specified. Connect an 8Ω load resistor in parallel with the VTVM terminals and connect the VTVM to the Speaker Output Jack.

Set the Speaker ON/OFF Switch on.

Playback Azimuth Alignment

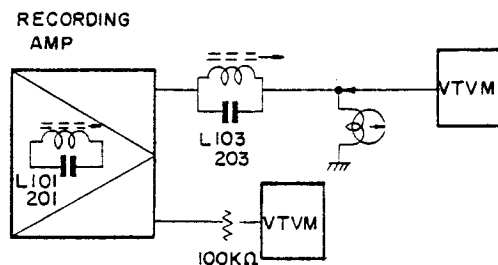
- (1) Playback a 10 Kc signal of -22 dBs recorded on the first section of the SONY alignment tape (N-19-F2).
- (2) Adjust the Azimuth Alignment Screw located on the right side of the Playback Head to obtain maximum reading on the VTVM.



(Fig. 15)

Bias Trap Adjustment

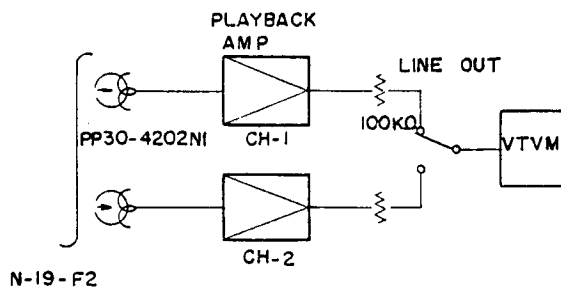
- (1) Before adjustment, turn the core counter-clockwise to the full.
- (2) Connect the VTVM across the Recording Head.
- (3) With the Trimmer Capacitor set to maximum, place the set in record mode.
- (4) Adjust the Trap Coil L_{103} (L_{203}) so that the VTVM indicates maximum.
- (5) Connect the VTVM to Line Output.
- (6) With the Recording Volume Control set to maximum, adjust the Trap Coil L_{101} (L_{201}) so that the VTVM indicates minimum.



(Fig. 16)

Playback Level Adjustment

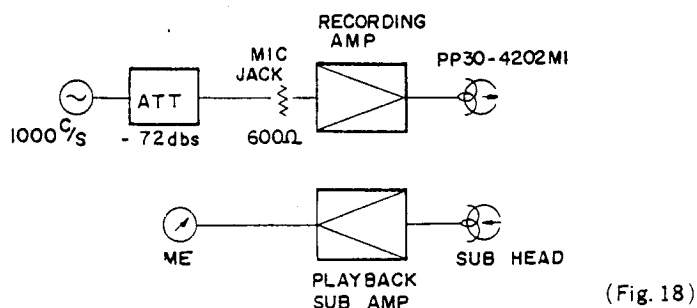
- (1) Set the Tone Control to the center position.
- (2) Playback a 700 c/s signal of -22 dBs recorded on the third section of the SONY alignment tape (N-19-F2) and measure the output with the VTVM.
- (3) Playback a 10 Kc signal of -12 dBs recorded on the fourth section of the SONY alignment tape.
- (4) Adjust the Potentiometer R_{111} (R_{211}) so that the VTVM indicates the same value as obtained at the third section.
- (5) When playing back a 10 Kc/s signal, check the Azimuth Alignment Screw again.
- (6) Apply locking point over the Azimuth Alignment Screw.



(Fig. 17)

Recording Bias Alignment

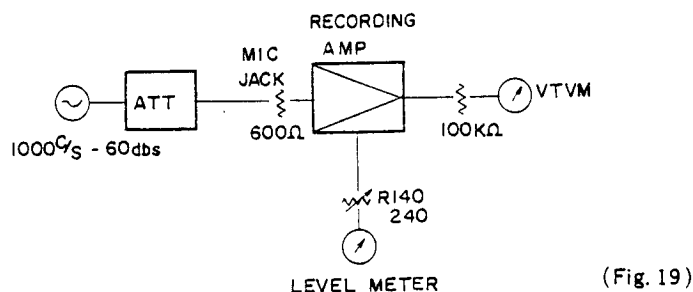
- (1) Set the machine in record mode.
- (2) Connect a VTVM across winding of the Rec./P.B. Head of Channel 1 (Channel 2).
- (3) Adjust the Trimmer Capacitor C_{303} (C_{304}) shown in Fig. 18 so that the VTVM indicates approximately 40 V.



(Fig. 18)

Recording Level Alignment

- (1) Set the Speaker ON/OFF Switch OFF.
- (2) Place the set in stereo recording mode.
- (3) Feed a 1000 c/s signal of -60 dBs (0.775 mV) into Mic Input Jack.
- (4) Turn the Recording Volume Control R_{157} (R_{257}) so that the VTVM indicates +1 dBs (0.80V).
- (5) Turn the Adjustable Resistor R_{140} (R_{240}) so that the pointer of the Level Meter is just at the boundary between the Red portion and the Black portion.

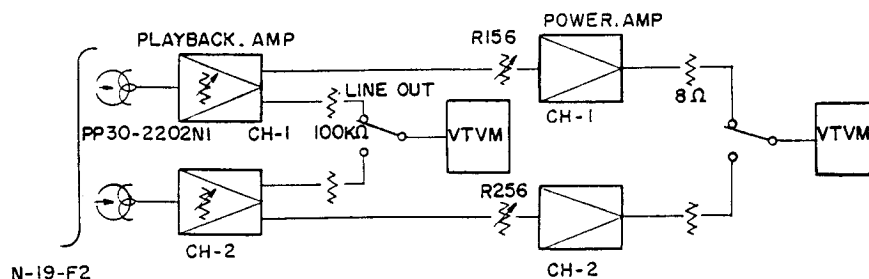


(Fig. 19)

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Playback Output Level Adjustment

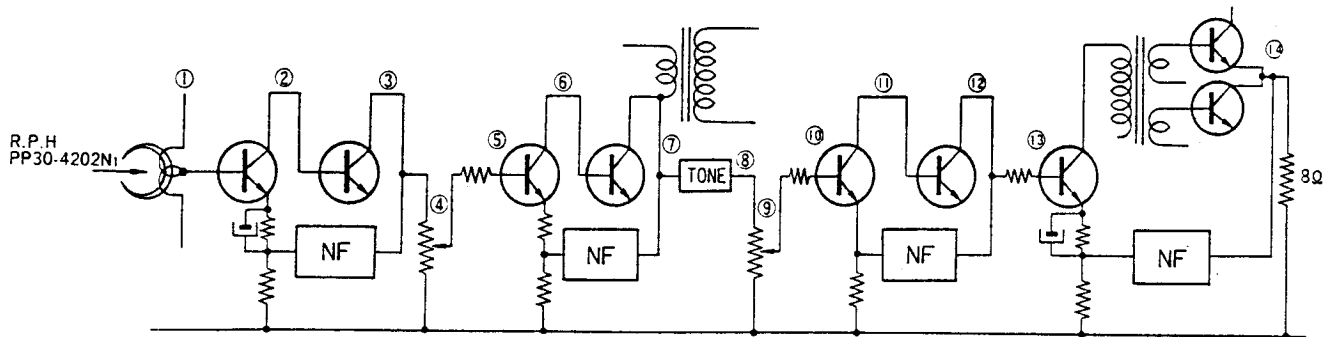
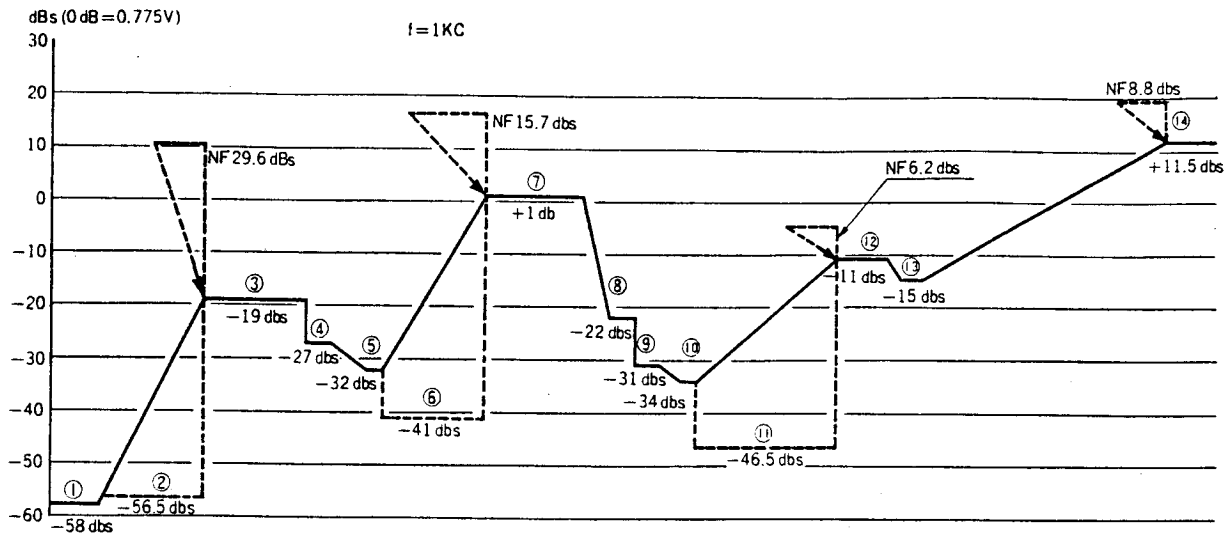
- (1) Playback a 700 c/s signal of -12 dBs recorded on the second section of the SONY alignment tape (N-19-F2).
- (2) Adjust the Potentiometer R_{113} (R_{213}) so that the VTVM indicates 0 dBs (0.775V).



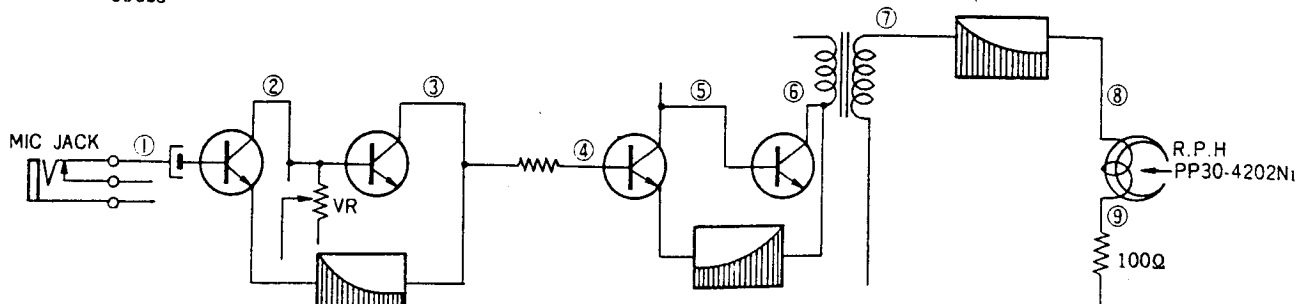
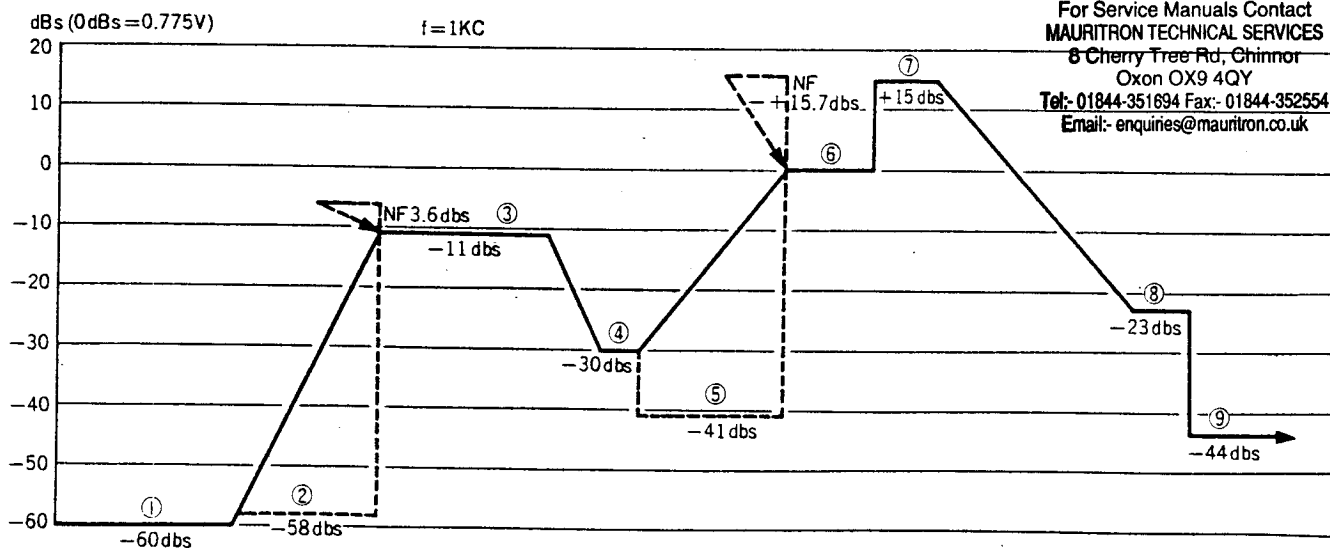
(Fig. 20)

Level Diagram

Playback

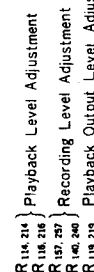


Recording



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Circuit Schematic



S₁: AUTOMATIC SHUT-OFF SWITCH
S₂: POWER ON/OFF SWITCH
S₃: BIAS CONTROL SWITCH (OFF IN 1½ ON IN ¾ & 7½ PS)
S₄: MANUAL/RECORD SELECTOR SWITCH
S₅: BIAS ON/OFF SWITCH (FORWARD POSITION)
S₆: NOISE SUPPRESSOR ON/OFF SWITCH
VOLTAGE INDICATIONS IN () ARE WHEN DELIVERING 1W X2 POWER OUTPUT.

-14-

Mounting Diagram
Pre-Amplifier Section —
— Conductor Side —
P₁

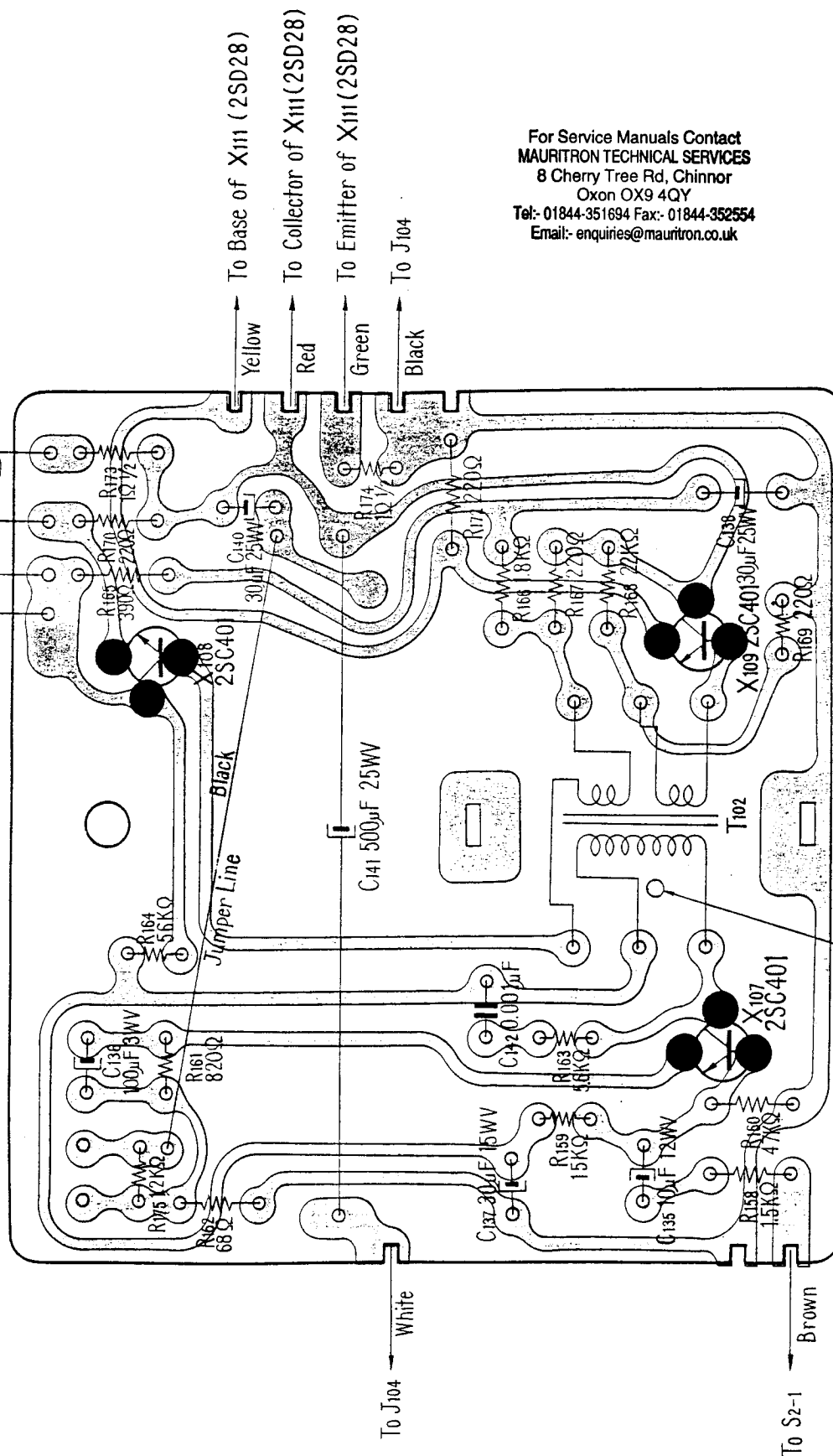


Mounting Diagram

Power Amplifier Section of Channel-1

— Conductor Side —
P₂

- Ⓜ To Circuit Board for Bias OSC and Power Supply
- To Collector of X110 (2SD28)
- To Base of X110 (2SD28)
- To Emitter of X110 (2SD28)



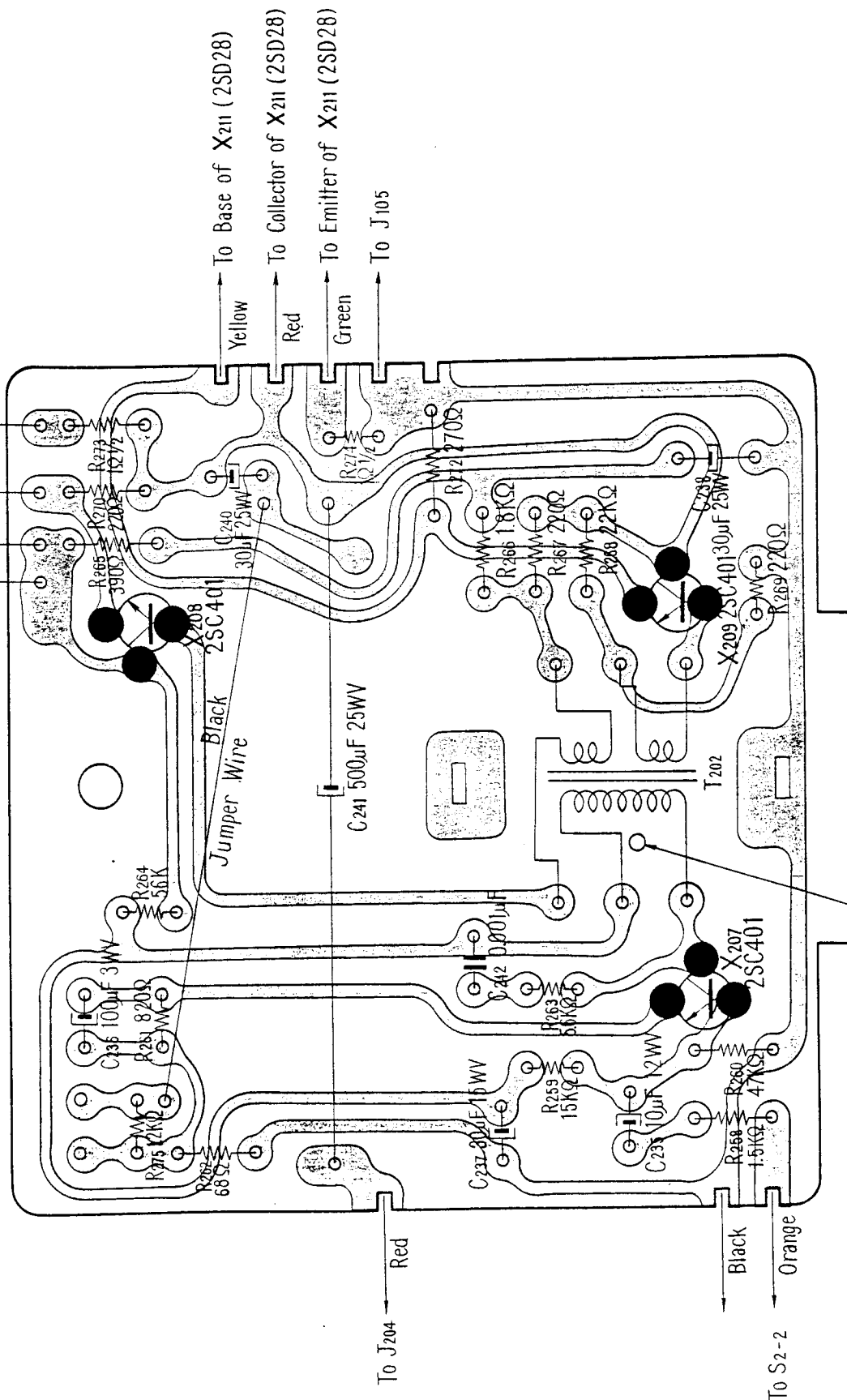
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Mounting Diagram

Power Amplifier Section of Channel-2

--- Conductor Side ---
P₃

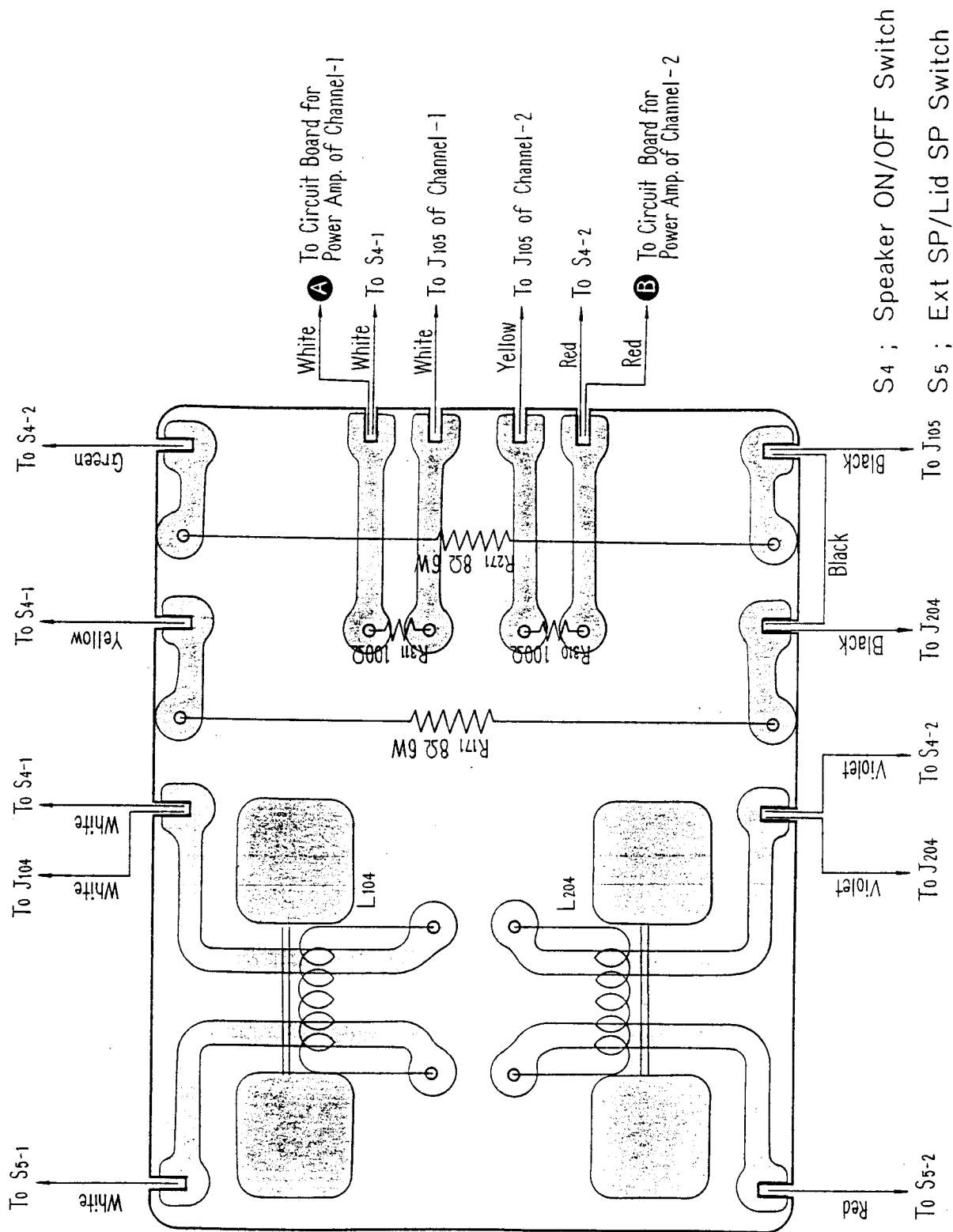
- (M) To Circuit Board for Bias OSC and Power Supply
- To Collector of X₂₁₀ (2SD28)
- To Base of X₂₁₀ (2SD28)
- To Emitter of X₂₁₀ (2SD28)



Marking

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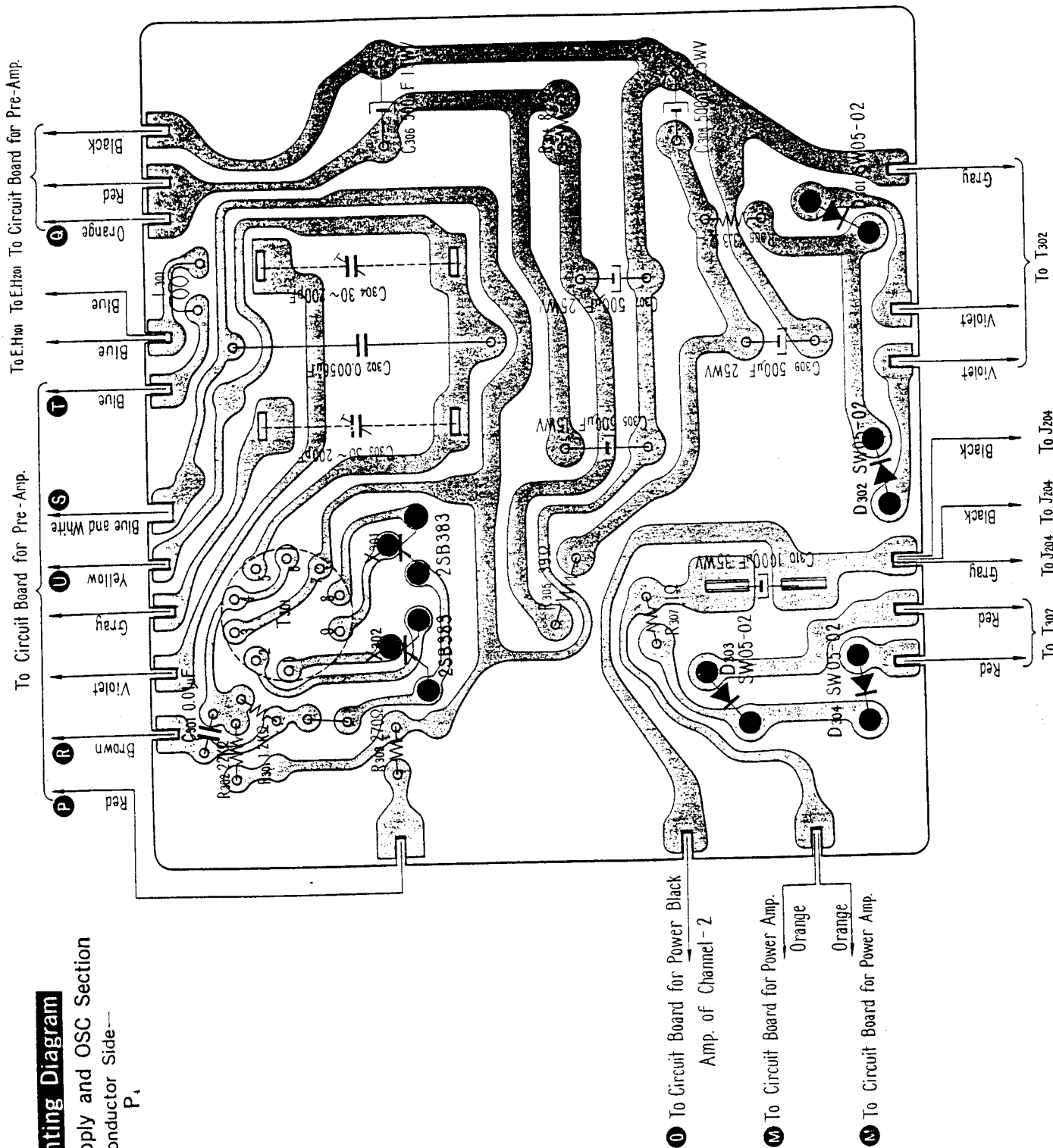
Mounting Diagram
Speaker Circuit Section
—Conductor Side—
P_s



Mounting Diagram

Power Supply and OSC Section

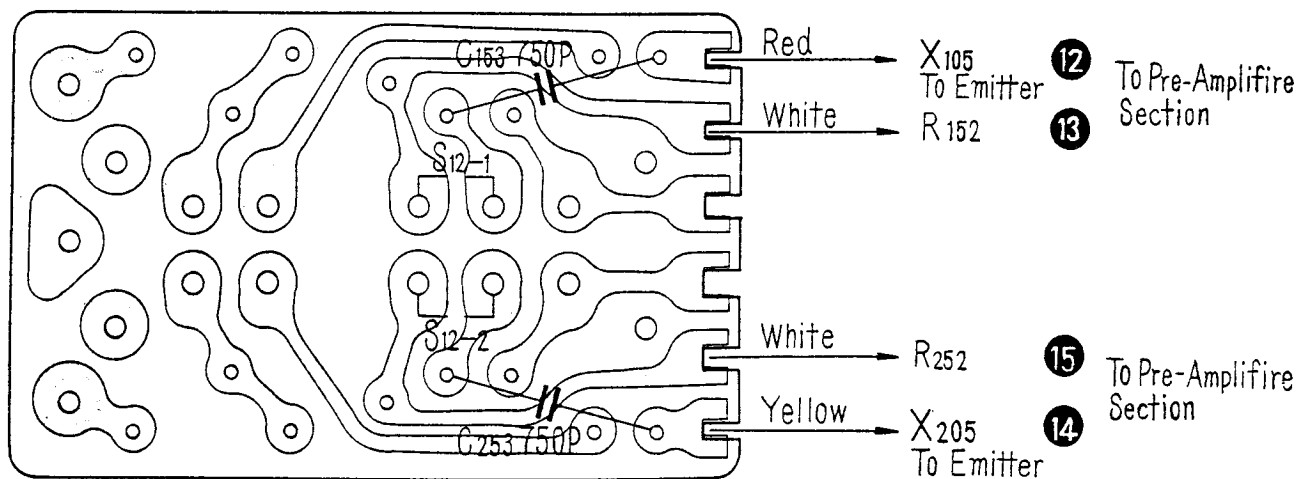
—Conductor Side—
P₁



Mounting Diagram

Noise Suppress Switch Section (additional)

—Conductor Side—



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Parts List
2nd Revision

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
A1	X-34300-01-	*BASS PLATE, chassis	8	3-430-159-	WASHER, capstan shaft; black
A3	-03-	*SPRING, take-up and feed reel retainer	9	-160-	WASHER, take-up and feed reel spindle
A2	-02-	*LEVER, capstan idler, release	10	-161-	PULLEY, feed reel spindle
	-04-	*COVER, head	11	-162-	BRACKET, speed equalizer switch
A4	-05-	*PANEL, control		-163-	DECORATION PLATE, record control
	-07-	*BRACKET, power transformer	12		JOINT LEVER, recording clank
A5	-08-	*BRACKET, binaural monitor jack	13	-165-	ROD, recording clank
A6	-09-	*KNOB, speed selector	14	-166-	LEVER, record button
A7	-10-	*FRONT PANEL	15	-167-	BRACKET, recording
A8	-14-	*TABLE, take-up reel	17	-169-	SPACER, clank
A9	-15-	*TABLE, feed reel	18	-170-	LEVER, recording of channel 1
A10	-16-	*LEVER, record clank	19	-171-	LEVER, recording of channel 2
A11	-17-	*LEVER, rewind idler	20	-172-	ROD, rec/P.B. selector switch
A12	-19-	*IDLER, rewind	21	-173-	BRACKET, rec/P.B. amplifier
A13	-20-	*BRACKET, jack, socket and fuse holder	22	-174-	BRACKET, leg; power supply and oscillator block side
A14	-21-	*LEVER, automatic shut-off actuator	23	-175-	BRACKET, leg
A15	-22-	*BRACKET, front panel retainer	25	-177-	BRACKET, volume and tone control
A16	-23-	*HEAD DECK	26	-178-	LEVER, instant stop
A17	-24-1	*BOARD, speaker box right; black		-190-	BRACKET, muting switch
A18	-25-	*IDLER, take-up	27	-191-	BRACKET, power supply and oscillator
A19	-26-	*CAM, function selector	28	-193-	DECORATION PLATE, binaural monitor jack
A20	-27-	*LEVER, take-up idler	29	-194-	BRACKET, cabinet and base plate
	-28-3	CARTON ASS'Y		-195-	BRACKET, instant stop brake lever retainer
A21	-29-	*PANEL, reel	30	-196-	BRACKET, speed equalizer switch
A22	-30-	*CABINET, body	31	-197-	WASHER, volume control
	-38-	*BRACKET, volume control	32	-198-	CAP, take-up idler
A43	-39-	*TAPE INDEX COUNTER	33	-199-	WASHER, recording button; black
A24	-31-	*CABINET LID, right	34	-200-	WASHER, recording button; black
A25	-32-	*CABINET LID, left	35	-201-	SHAFT, function selector
A26	-33-	COMPLETE CABINET ASS'Y	36	-202-	KNOB, record volume control
A23	-34-	*LEVER, function selector; slide on base plate	37	-203-	SHAFT, head cover
	-35-	BRAKE LEVER ASS'Y	38	-206-	CAP, take-up and feed reel spindle
A28	-37-	*SHAFT, pinch roller	39	-209-	FELT, speaker box
A33	X-34180-04-	*SHAFT, capstan	40	-210-	BOARD, speaker box, left; black
A34	-06-	ARM, capstan idler	41	-211-	CUSHION, VU meter
A35	-08-	LEVER, tape speed selector	42	-212-	ROD, recording
A36	-14-	JOINT LEVER, function selector cam and function selector lever	43	-213-	SPRING, recording
A37	-27-	CAM, pinch lever	44	-214-	TAPE GUIDE, left
A38	-30-	ARM, stepper	45	-215-	SHAFT, tape guide, left
A40	-37-	*KNOB, function selector	46	-216-	CUSHION, 2P connector
	-33-	*PLATE, motor pulley; round shape	47	-217-	JOINT SPRING, instant stop lever
A29	X-34240-02-	*SHAFT, pinch lever	48	-219-	SPRING, recording clank
A39	X-34300-40-	*BRAKE, instant stop	49	-220-	BRACKET, monaural switch
A30	X-00270-03-	*IDLER, capstan	50	-221-	LEVER, feed reel brake arm
A31	X-34130-11-	*BUTTON, recording	51	-222-	PLATE, feed and take-up brake arm joint
A32	-12-	BUTTON ASS'Y, power	52	-223-	PLATE, spring holder
A41	X-34193-03-	KNOB ASS'Y, bass, treble mode	53	-225-	SPRING, feed reel brake lever
A42	-04-	KNOB ASS'Y, volume control; left	54	-226-	BAG, polyethylene
	X-34308-01-	SHIELD PLATE ASS'Y, rec/P.B. head	55	-227-	CAM, fast forward
	3-430-115-	COVER, pre-amplifier; fiber	56	-228-	DECORATION PLATE, jack
1	-152-	BRACKET, trap coil	57	-229-	LEVER, take-up reel
2	-153-	PLATE, microphone jack; bakelite	58	-230-	FELT, pinch roller; oil absorber
3	-154-	BRACKET, speed selector shaft	59	-231-	CAP, pinch roller
4	-155-	PLATE, automatic shut-off actuator switch	60	-232-	PINCH ROLLER
5	-156-	SPRING, pinch lever cam	61	-233-	WASHER, pinch roller; nylon
6	-157-	BRACKET, recording clank	62	-234-	SPACER, pinch roller; metal
7	-158-	SHAFT, fast forward	63	-235-	WASHER, front panel; meta
			64	-236-	SLEEVE, capstan shaft
			65	-237-	

* marked at top of part name means ASSEMBLY

Parts List

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
66	3-430-238-	SPRING, capstan shaft	115	3-005-001-	SPRING, rec/P.B. head
67	-239-	SPRING, feed reel brake	116	3-103-139-	HUM proof ring
	-240-	CUSHION, rubber	117	-140-	SUPPORT, hum-proof ring
	-048-	BOARD, speaker box right; black	118	-206-	WASHER, cabinet; back side
	-245-	SHIELD PLATE, mic jack		-527-	BINDER, rubber
	-246-	SPRING, switch holder	122	3-402-654-	TAPE PAD HINGE, rec/P.B. head
	-248-	BRACKET, micro switch holder	123	-655-	TAPE PAD HINGE, erase head
68	3-418-009-	SHAFT, pinch roller	124	-764-	SPACER, speed selector knob shaft
69	-011-	JOINT, pinch lever and slider			
70	-013-	SHIFTER, tape pad	126	2-409-102-	WASHER, fast forward button and pinch roller shifter shaft; nylon
71	-035-	ALIGNING PLATE, instant stop knob			
72	-053-	CLANK, fast forward	127	-108-	WASHER, front panel and reel panel; nylon
73	-054-	SPACER, stepper arm			
74	-055-	SHAFT, fast forward lock lever	128	-124-	WASHER, recording lever; nylon
75	-060-	SHAFT, capstan idler arm (Speed selector lever guide shift)	129	-133-	SPRING, rec/P.B. selector switch
76	-069-	SPRING, capstan idler arm	130	-158-	SPRING, recording clank
77	-070-	SPRING, fast forward idler arm (Horizontal use)	131	-163-	WASHER, take-up and feed reel; nylon
78	-073-	SPRING, capstan idler arm shaft (Vertical use)	132	-191-	WASHER, cabinet; bottom side
	-074-	SPRING, speed selector lever (Horizontal use)	134	3-412-059-	SCREW, front panel
79	-075-	SPRING, capstan idler release lever	135	3-413-029-	BRACKET, wire retainer
80	-077-	SPRING, fast forward idler arm shaft (Vertical use)	140	3-420-076-	FELT, vibration absorber
81	-079-	SPRING, instant stop lever	136	3-427-291-	CAUTION LABEL
82	-085-	SPACER, function selector cam shaft		3-419-091-	WASHER, treble, bass mode control knob; black
83	-086-	SPACER, instant stop brake lever	137	-211-	CAM, capstan idler
84	-091-	SPRING, fast forward lock lever shaft	138	-345-	HEAT SINK, power amplifier
			139	-353-	KNOB, volume control channel-1
86	-107-	BRACKET, capstan holding		3-401-156-	SPACER, microphone jack
87	-111-	RING CAP, capstan holding		-179-	PLATE, lug
88	-112-	OIL RING, capstan holding		-100-	RUBBER, vibration absorber
89	-113-	TAPE SUPPROT, right		3-424-073-	BUSHING, pinch lever
90	-115-	NYLON WASHER, 8 ϕ (outer diameter)		3-701-007-	BELT, tie-up
91	-137-	BUTTON, fast forward		-029-01	TACK LABEL 60 c/s
99	-208-	BELT, rewind idler		(-028-01)	" (50 c/s)
100	-210-	PULLEY, 50 c/s, motor		3-430-803-	SHIELD PLATE
92	-166-	WASHER, rewind idler; special		3-431-161-01	SCREW, motor setting
93	-167-	TAPE SUPPORT, left			TRANSISTOR,
	-168-	SPRING, rec/P.B. switch			2SC401; yellow mark X _{101, 201,}
94	-171-	SPRING, tape guide height adjusting			102, 202
96	-191-	SCREW, rec/P.B. head height lock			2SC402 X _{107, 207, 103, 203}
97	-193-	KNOB, instant stop			2SC402 X _{105, 205, 106, 206,}
	-194-	PINCH ROLLER			2SC318 X _{104, 204}
98	0-051-235-	HOLDER CLAMP, cable			2SC383 X _{101, 202}
	3-418-200-	SPRING, take-up brake			2SD28 X _{110, 210, 111, 211}
	3-442-064-	SPRING, brake block			2SC401 X _{108, 208, 109, 209}
	3-424-030-	ACTUATOR GUIDE			DIODE
101	0-007-259-	PAD, erase head			SW-05-02 D _{301, 302, 303, 304}
102	-313-	HOLDER CLAMP, cable			1T22 D _{101, 102, 201, 202}
106	0-027-216-	OIL RING, rewind and capstan idler	142	8-832-624-02	MOTOR, IC-624 S ₁
103	-035-	WASHER, take-up idler	143	8-821-242-26	REC/PB HEAD PP30.4202N ₁
104	-134-	SPACER, take-up brake arm, etc.	144	8-826-629-21	ERASE HEAD EF18-2902H
105	-193-	SPRING, pinch lever	176	1-441-262-13	TRANSFORMER, power T ₃₀₂
107	-220-	WASHER, 5 ϕ rewind idler; paper	177	1-427-174-	" output T _{1061, 201}
108	-473-	PAD, rec/P.B. head		1-423-114-	" input T _{102, 202}
109	0-037-249-	SPLIT NUT 2 ϕ	179	1-433-081-	" bias oscillator T ₃₀₁
110	-406-	TAPE GUIDE	145	1-409-106-	COIL, trap 20 mH L _{103, 203}
111	0-041-041-	WASHER, base plate; felt	180	-083-	" trap 200 μ H L _{101, 201}
112	-223-	SPACER, phone jack	181	1-407-051-	INDUCTOR, micro 390 μ H L _{102, 202}
113	0-056-247-	BELT, tape index counter	146	1-431-038-	COIL, dummy L ₃₀₁
114	-322-	OIL RING, take-up idler	147	1-421-153-	" filter choke L _{104, 204}
			148	1-509-062-	SOCKET, AC
			149	-015-	" AC outlet
			150	1-533-012-	FUSE HOLDER
			151	1-518-052-	PILOT LAMP
			152	1-517-003-	SOCKET, pilot lamp
			153	1-509-117-	CONNECTOR
				1-502-125-	SPEAKER, cabinet side SP _{101, 201}

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Parts List

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
154	1-502-154-	speaker box SP _{102, 202}		1-242-683-	2.7KΩ " " R _{112, 212,}
182	1-524-035-	VOLUME UNIT METER SWITCH,			114, 214
183	1-513-220-	rec/P.B. selector; slide SW _{101, 201}		-679-	1.8KΩ " " R _{147, 247}
159	-091-	speaker selector; slide SW ₁		-675-	1.2KΩ " " R ₃₀₁
156	1-514-227-	speaker mode; rotary SW ₂		-673-	1.0KΩ " " R _{135, 215,}
157	-226-	speed equalizer; rotary SW ₁			149, 249, 137, 237, 142, 242
158	-140-	power on/off push SW ₇		-677-	1.5KΩ " " R _{158, 258}
155	-091-	speaker monitor on/off; SW ₄		-671-	820Ω " " R _{161, 261}
160	-055-	bias control SW _{3, 1}		-709-	33KΩ " " R _{178, 278}
162	-039-	automatic shut-off SW ₄		-713-	47KΩ " " R _{152, 252}
	-247-	monaural record; muting SW _{3, 1}		-657-	2200Ω " " R _{170, 270,}
	-057-	micro switch			172, 272, 167, 267, 169, 269
		JACK,		-669-	680Ω RD $\frac{1}{4}$ UL $\pm 10\%$ R _{130, 230,}
164	1-507-108-	external speaker; mini J _{104, 204}		-667-	560Ω " " R _{103, 203}
	-053-	microphone input; mini J _{102, 202}		-665-	470Ω " " R _{150, 250,}
165	-106-	binaural monitor; phone J ₁₀₈			151, 251
166	-142-	auxiliary input and line out; J _{101, 201, 103, 203}		-661-	330Ω " " R _{132, 232}
167	1-506-121-	CORD, external speaker		-653-	150Ω " " R _{126, 226}
	1-101-030-	CAPACITOR, 200pF 50WV C _{152, 252}		-649-	100Ω " " R _{310, 311}
	-534-	ENCAPSULATED COMPONENT, 0.1μF + 120Ω CP _{1, 2}		-645-	68Ω " " R _{107, 207}
175	1-117-036-	CAPACITOR, 1.5μF 250WV C ₃₁₁		-647-	82Ω " " R _{104, 204}
	1-141-010-	" trimmer C _{303, 304}		-633-	22Ω " " R _{162, 262}
168	1-536-074-	TERMINAL STRIP		-613-	3.3Ω " " R ₃₆₀
169	-061-	" " 2-L-1		-601-	1Ω " " R _{169, 269}
	1-538-464-	CIRCUIT BOARD		-681-	2.2KΩ " " R _{168, 268,}
	-395-	CIRCUIT BOARD, pre-amplifier			101, 201
	-396-	" " power supply		1-204-679-	1.8KΩ RD $\frac{1}{4}$ UR $\pm 10\%$ R _{166, 266}
		and OSC		-527-	39Ω RD $\frac{1}{2}$ SP $\pm 5\%$ R _{306, 173,}
	-397-	" " power-amplifier		-528-	1Ω " " R _{173, 273,}
		VOLUME CONTROL,			174, 274, 307
172	1-221-749-	10KΩ record R _{157, 257}		-663-	390Ω RD $\frac{1}{4}$ UR $\pm 10\%$ R _{165, 265,}
173	-750-	50KΩ playback R _{156, 256}			175, 275
		BASS AND TREBLE CONTROL,		-529-	270Ω RD1SP $\pm 5\%$ R ₃₀₃
174	-751-	50KΩ R _{154, 254, 155, 255}		-530-	82Ω " " R ₃₀₄
		ADJUSTABLE RESISTOR,		-537-	2.2Ω RD2SP $\pm 10\%$ R _{108, 208,}
170	-748-	5KΩ R _{116, 216, 140, 240}			109, 209
171	-401-	10KΩ R _{119, 219}		1-207-084-	wire wound 8Ω 6W $\pm 10\%$
		RESISTOR			R _{171, 271}
	1-242-713-	47KΩ RD $\frac{1}{4}$ UR $\pm 10\%$			CAPACITOR
		R _{106, 206, 118, 218, 152, 252}		1-105-667-	mylar, 0.0068μF 50WV C _{151, 251}
	-703-	18KΩ " " R _{110, 210}		1-107-008-	silvered mica 150pF C _{312, 313}
	-697-	10KΩ " " R _{106, 206}		1-105-689-	mylar 0.22μF 50WV C _{126, 226}
	-687-	3.9KΩ " $\pm 5\%$ R _{115, 215}			" 0.033μF " C _{108, 208,}
	1-214-721-	100KΩ RD $\frac{1}{4}$ UR $\pm 10\%$ R _{102, 202}			112, 212
	-723-	120KΩ " " R _{113, 213}		-677-	" 0.022μF " C _{102, 202,}
	1-242-715-	56KΩ " " R _{139, 239}			127, 227, 122, 222, 129, 229
	1-214-747-	1.2 MegΩ " " R _{123, 223}		-673-	" 0.01μF " C _{123, 223,}
	-717-	68KΩ " " R _{134, 234}			125, 225, 124, 224, 141, 241, 301
	1-242-705-	22KΩ " " R _{121, 221,}		-671-	" 0.0068μF " C _{101, 201,}
					118, 218
	-703-	18KΩ " " R _{122, 222,}		-665-	" 0.0022μF " C _{126, 226}
		133, 233		-661-	" 0.001μF " C _{148, 248,}
	-701-	15KΩ " " R _{150, 250,}			150, 250, 138, 238, 139, 239
		129, 229		-663-	" 0.0015μF " C _{114, 214,}
	-697-	220KΩ " " R _{170, 270,}			149, 249
	-695-	8.2KΩ " " R _{128, 228,}		1-107-016-	silvered mica 470pF C _{104, 204,}
		172, 272, 167, 267, 169, 269			117, 217
		146, 246		-006-	" 330pF C _{134, 234,}
	1-214-693-	6.8KΩ " " R _{111, 211,}			106, 206
		120, 220		-005-	" 220pF C _{120, 220}
	1-242-691-	5.6KΩ " " R _{124, 224,}		1-129-380-	polyethylene 0.0056μF 600WV
		143, 243, 163, 263, 164, 264			C ₃₀₂
	-689-	4.7KΩ " " R _{125, 225,}		1-121-081-	electrolytic 500μF 15WV C _{305,}
		145, 245, 160, 260			206
	-687-	3.9KΩ " " R _{117, 217,}			" 200μF 12WV
		141, 241			C _{103, 203}
	-685-	3.3KΩ " " R _{127, 227,}			" 200μF 3WV
		131, 231, 136, 236, 138, 238			C _{111, 211}
					" 100μF 15WV
					C _{121, 221, 131, 231}

Parts List

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	1-121-339-	electrolytic 100 μ F 10WV		3-793-010-20	TAPE TALK
	-315-	C _{119, 219} " 100 μ F 6WV		1-534-099-16	CORD, power supply
	-290-	C _{109, 209, 115, 215, 132, 232} " 100 μ F 3WV		0-041-127-12	BAG, polyethylene; red; 50 c/s
	-308-	C _{107, 207, 136, 236} " 30 μ F 3WV		(-01)	(white; 60 c/s)
	-307-	C _{105, 205} " 10 μ F 12WV		3-430-229-	CAP, reel
	-367-	C _{116, 216, 135, 235, 110, 210, 113, 213, 133, 233} " 3 μ F 25WV		3-401-193-02	RIBBON, head cleaning
	-234-	C _{130, 230} " 500 μ F 25WV		1-534-036-02	CONNECTION CORD; black
	-336-	C _{307, 308, 309} " 30 μ F 15WV		(-01)	(RK-46) (red)
	1-119-149-	C _{137, 237} " 500 μ F 25WV		3-403-810-	COVER, polyethylene
	-173-	C _{143, 243} " 500 μ F 50WV		3-701-020-	CHECK SHEET BAG
	1-121-094-	C _{147, 247} " 1000 μ F 35WV		3-418-221-	PULLEY 60 c/s motor
	-286-	C ₃₁₀ " 30 μ F 25WV		(-210-)	(50 c/s)
	3-790-227-12	INSTRUCTION MANUAL		3-701-025-	SPLICING TAPE PS-2
	3-793-009-11	INSPECTION CARD		7-491-001-	DESICCANT
				8-811-960-30	MICROPHONE F-96 (MTL)
				8-860-107-	REEL R-7A
				8-918-210-53	DEMONSTRATION TAPE, DSE-53
				Y-20161-01-	OIL, OL-1K
			175	1-509-064-	SOCKET, voltage selector
			176	-029-	CONNECTOR, record/playback
				1-536-030-	TERMINAL STRIP 2-L-2
				1-532-007-	FUSE, 1.5A
				1-244-697-	RESISTOR, carbon; fixed, 10K Ω
				3-430-813-	RD $\frac{1}{4}$ SR $\pm 5\%$
					TOOL SET

Parts List for Noise Suppress Switch (additional)

Part No.	Description	Q'ty
X-34300-66	Mounted Circuit Board (Noise Suppress Switch)	1
1-538-679-	Printed Circuit Board (Noise Suppress Switch)	1
1-514-314-	Slide Switch	1
1-129-128-31	Capacitor, polyethylene 750pF $\pm 10\%$, 50WV C _{153, 213}	2
3-430-252-	Bracket, suppress switch holder	1
-253-	Ornamental Plate, suppress switch	1
-178-05	Sub-chassis, control panel	1

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Parts List
Parts List for U. S. A. (Additional)

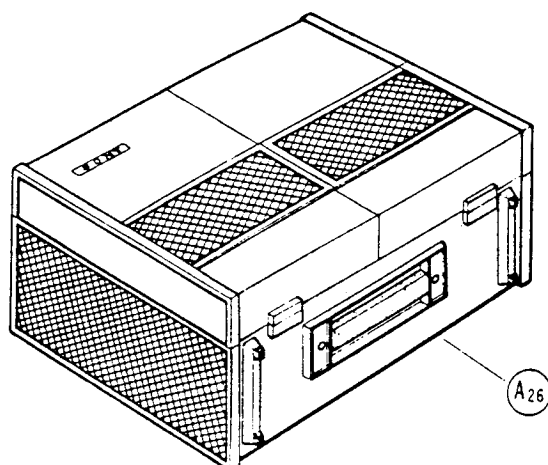
Ref. No.	Part No.	Description
24	X-34300-28-2	CARTON ASS'Y
	3-430-176-	DECORATION PLATE, jack
125	-205-	LABEL, serial NO.
	3-403-808-	BOX, AC SOCKET
100	3-410-044-	CAP, MP CAPACITOR
	3-418-211-	MOTOR PULLEY 60 c/s
	3-427-291-	CAUTION LABEL
	3-429-902-	INSULATOR, fiber
	3-790-227-22	INSTRUCTION MANUAL
	3-793-030-	TAPE BOOKLET
	1-506-105-01	PIN PLUG (red)
	-02-	(black)
	0-037-241-01	EARPHONE CASE
	X-37010-08-1	HEAD CLEANING RIBBON
176	1-441-252-	POWER TRANSFORMER
175	1-117-035-	MP CAPACITOR, 1.5 μ F AC 300V

Parts List for CSA (Additional)

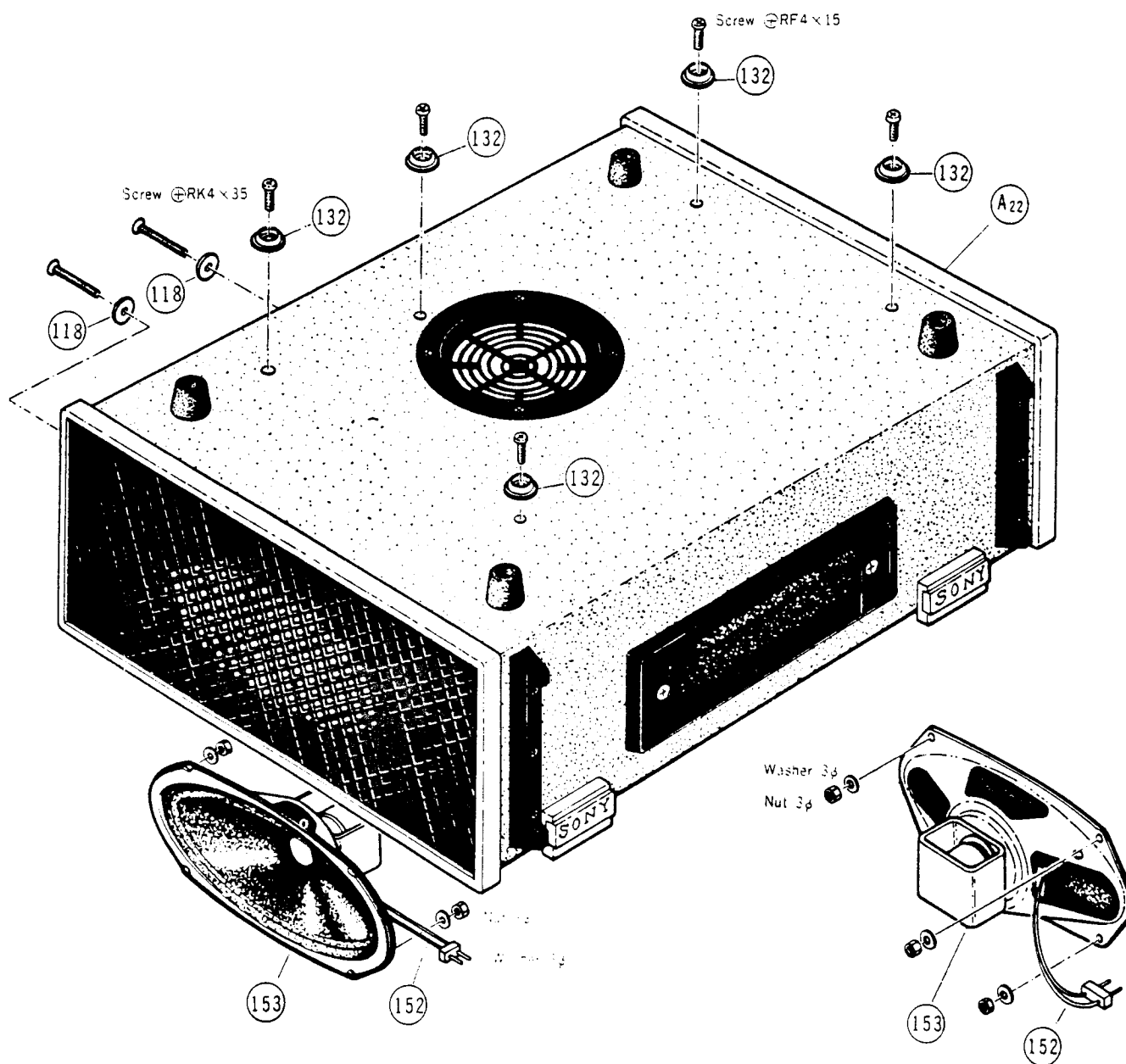
Ref. No.	Part No.	Description
A22	X-34300-28-3	CARTON ASS'Y
	X-34309-01-	CABINET ASS'Y, body
A26	X-34309-02-	COMPLETE CABINET ASS'Y
24	3-430-176-	DECORATION PLATE, jack
	-901-	LABEL, serial NO.
125	3-407-956-	CAUTION LABEL
	3-410-044-	CAP, MP CAPACITOR
	3-403-808-	BOX, AC SOCKET
	3-429-902-	INSULATION, fiber
	3-490-227-42	INSTRUCTION MANUAL
	1-534-375-12	POWER CORD
	8-922-404-00	TOOL SET
176	8-918-211-23	DEMONSTRATION TAPE, DSJ-73
	1-441-252-	POWER TRANSFORMER
	1-231-057-	ENCAPSULATED COMPONENT
175		0.033 μ F +120 Ω 500WV
	1-117-035-	MP CAPACITOR, 1.5 μ F AC 300V

Exploded Diagram

Cabinet—Bottom View

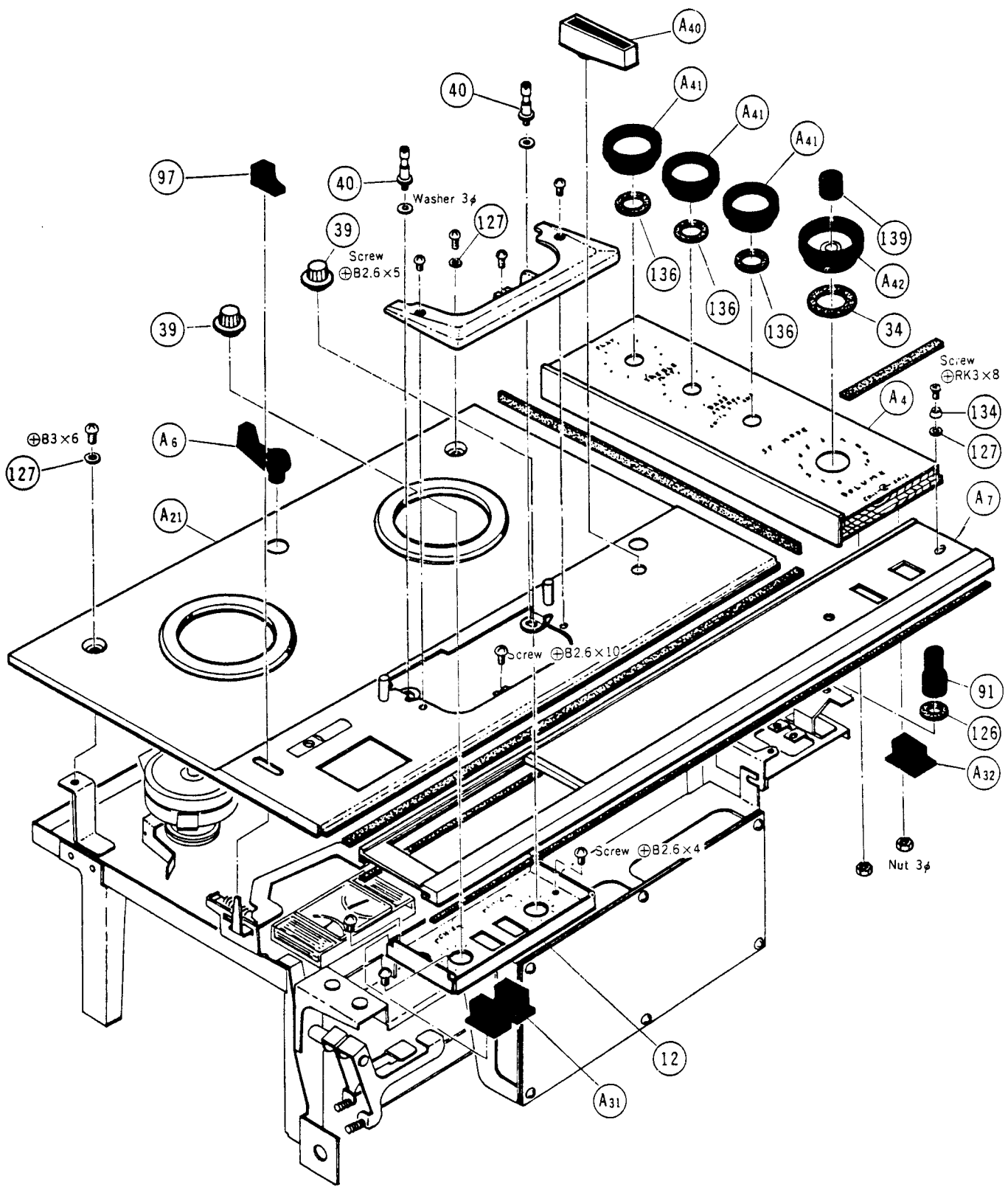


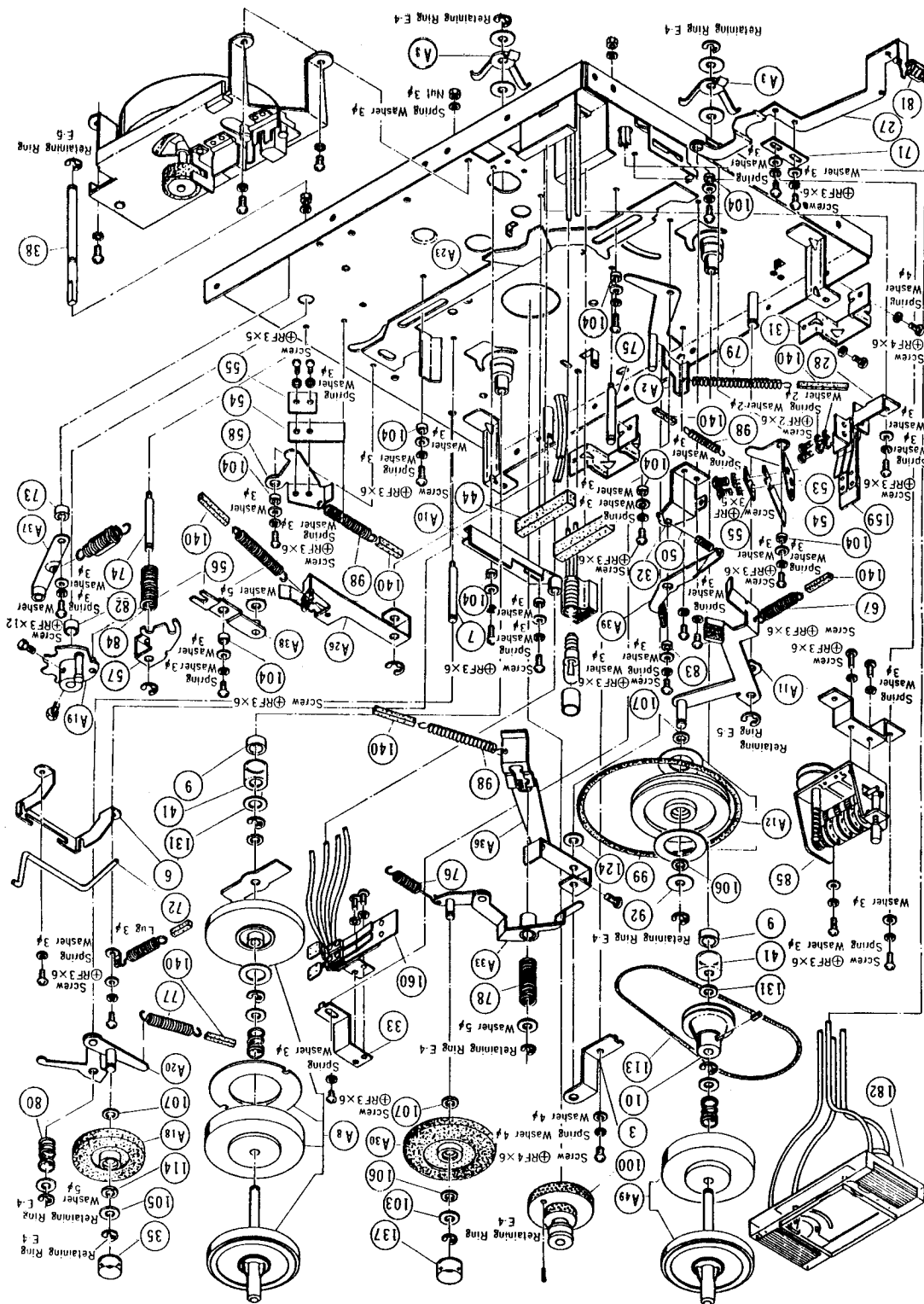
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Exploded Diagram

Reel Panel—Top View



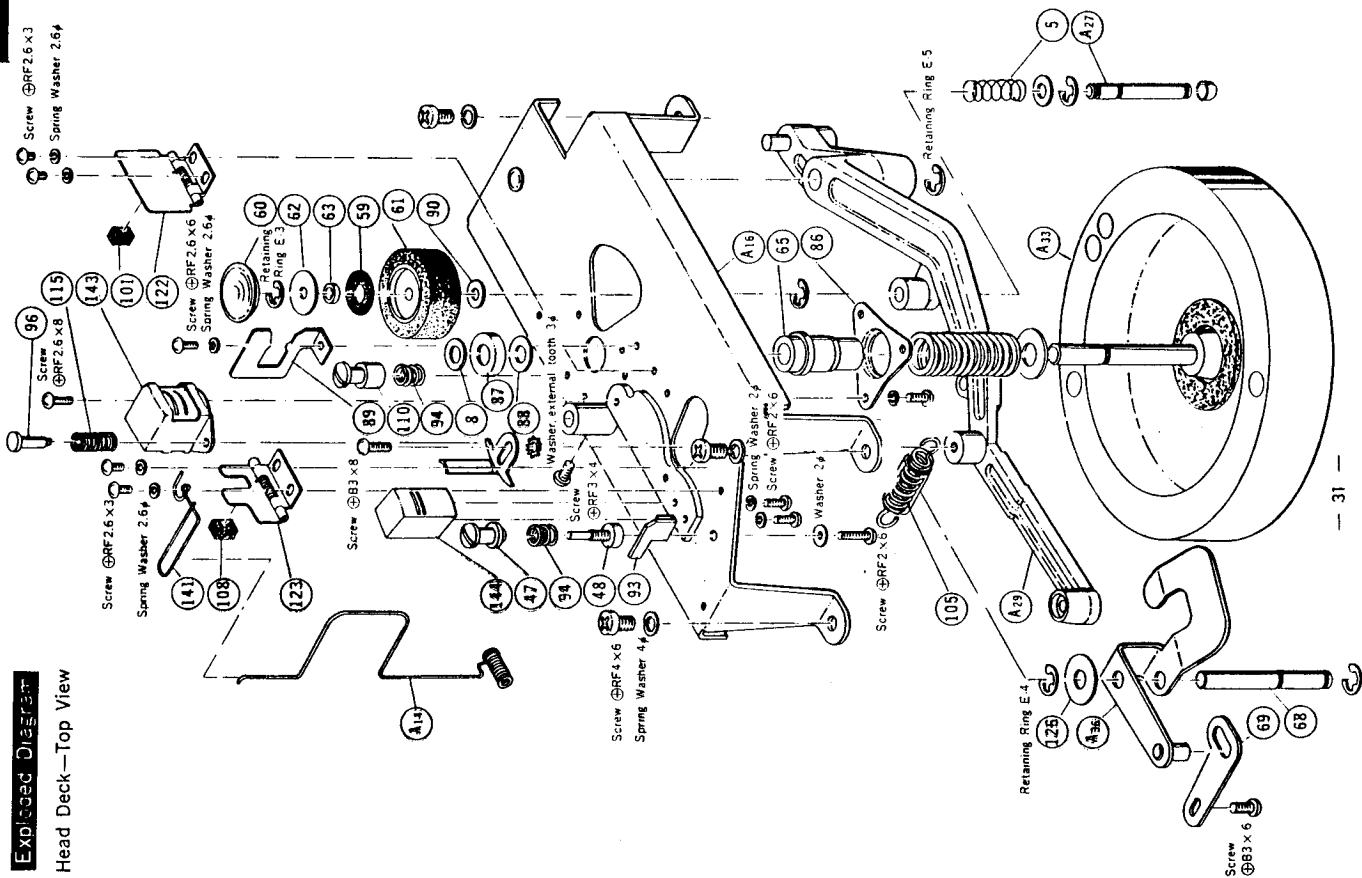


Tape Transport Mechanism—Top View

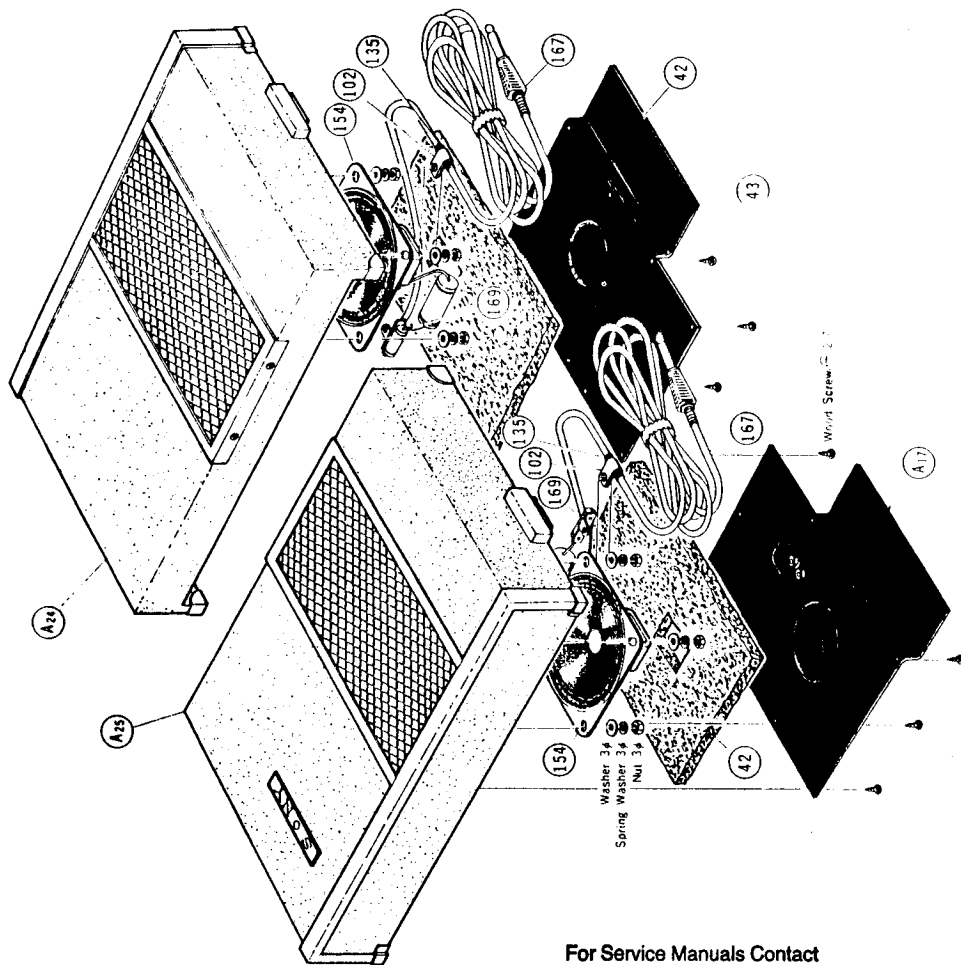
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Exploded Diagram
Head Deck—Top View



Exploded Diagram
Lid Speakers—Top View



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