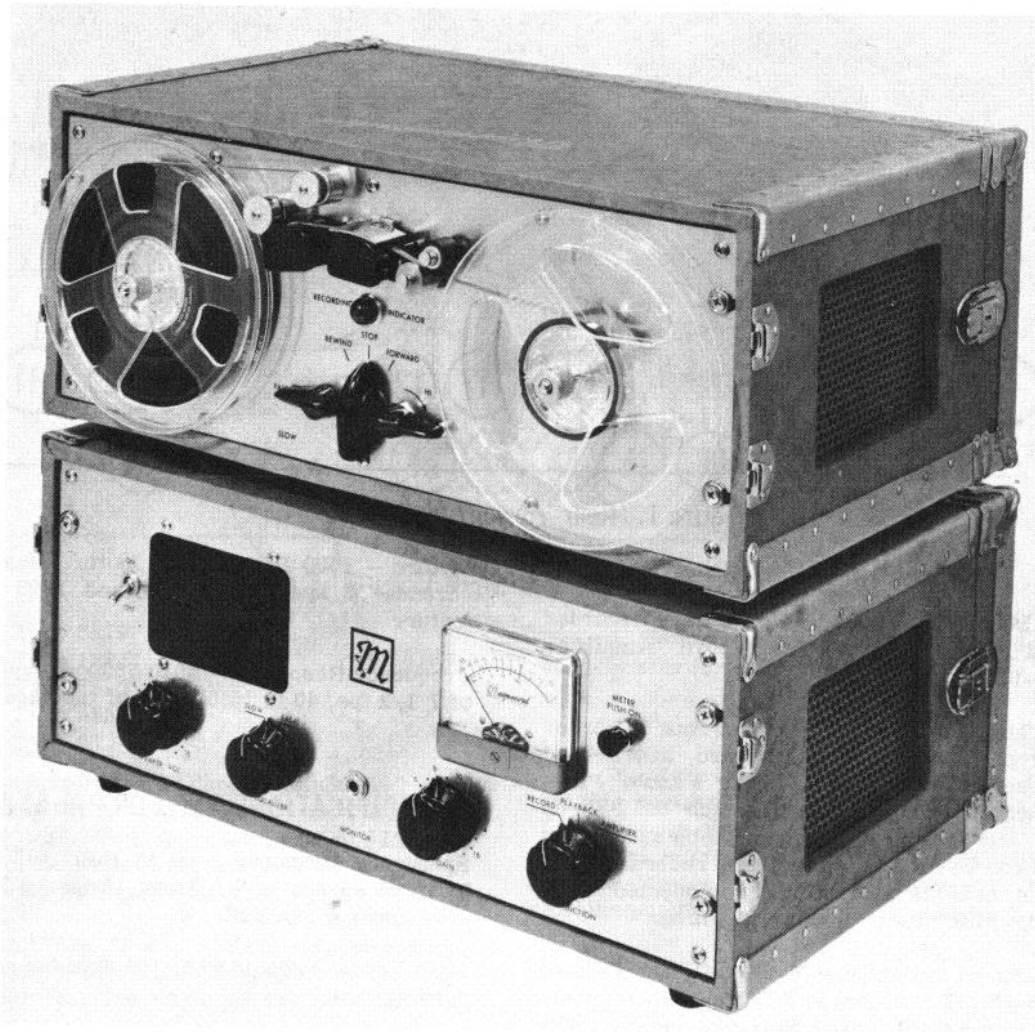


Amp Serial 01385 01385

Magnecord
TAPE RECORDERS
The Choice of Professionals



Service - Instruction Manual

the **PT6-6** series

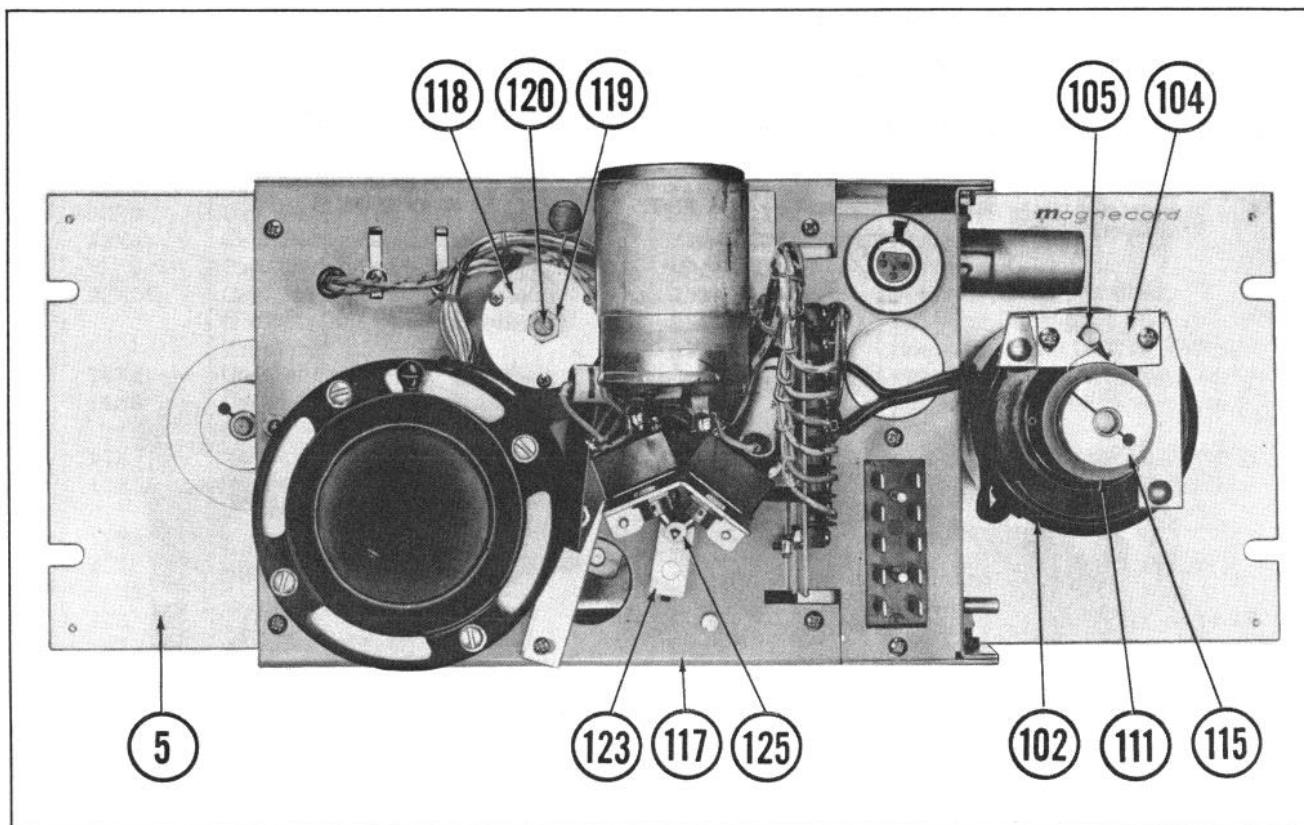


Figure 1. Rear View of Tape Transport.

GENERAL INFORMATION

The "Magnecord" Model PT6-6A Tape Recorder is designed for use with the "Magnecord" Amplifier Model PT6-6J.

The "Magnecord" Model PT6-6A Tape Recorder features Stop, Forward, Fast Forward, and Rewind modes of operation by merely turning a knob. Playback or Record is selected by switch on PT6-6J Amplifier. Any reel up to 7 inches can be used. New recordings can be made on previously recorded tape, since erase head is automatically connected when switch on amplifier is in "Record" position.

Tape Speed Switch on PT6-6A will change speed from 15 ips (FAST position) to 7 1/2 ips (SLOW position) when 15 ips capstan and pressure roller (large capstan and small pressure roller) are used. Speeds will be 7 1/2 ips (FAST position) and 3 3/4 ips (SLOW position) when 7 1/2 ips capstan and pressure roller (small capstan and large pressure roller) are used.

SPECIFICATIONS PT6-6A TAPE TRANSPORT

Tape Speeds — 3 3/4 ips, 7 1/2 ips, and 15 ips are interchangeable with no tools required. Tape speed selection is made by switch and/or change of capstan and pressure roller.

Rewind Speed — 1200 ft. of tape (full 7-inch reel) re-wound in 40 seconds.

Flutter — Less than 0.3%.

Tube — Bias Oscillator tube 12AU7.

Motors — 1500 RPM rewind motor. Hysteresis Synchronous 2 speed, 900 RPM and 1800 RPM, drive motor.

Frequency Response — 50 to 7500 cps with tape speed of 7 1/2 ips, 40 to 15,000 cps at tape speed of 15 ips.

SPECIFICATIONS PT6-J OR PT6-6J AMPLIFIER

Frequency Response — 50 to 15KC, ± 2 db equalized for tape speeds of 7 1/2 and 15 ips. 3 3/4 and 7 1/2 ips equalizer available.

Input Level — Sensitivity -105 dbm for zero level recording.

Maximum Level — 35 dbm.

Input Impedance — 50 or 250 ohms, balanced or unbalanced. High impedance unbalanced bridge (Phone Jack).

Noise — 65 millivolts maximum at 600-ohm output (switch at "AMP"); 20 millivolts maximum at 600-ohm output (switch at "PLAYBACK"). Rec-PB overall signal-to-noise ratio 50 db from 3% third harmonic distortion point.

Total Harmonic Distortion — Less than 2% with 10 watts output.

Output Impedance — 600 ohms balanced, 16 and 4 ohms.

Output — 10 watts with less than 2% distortion.

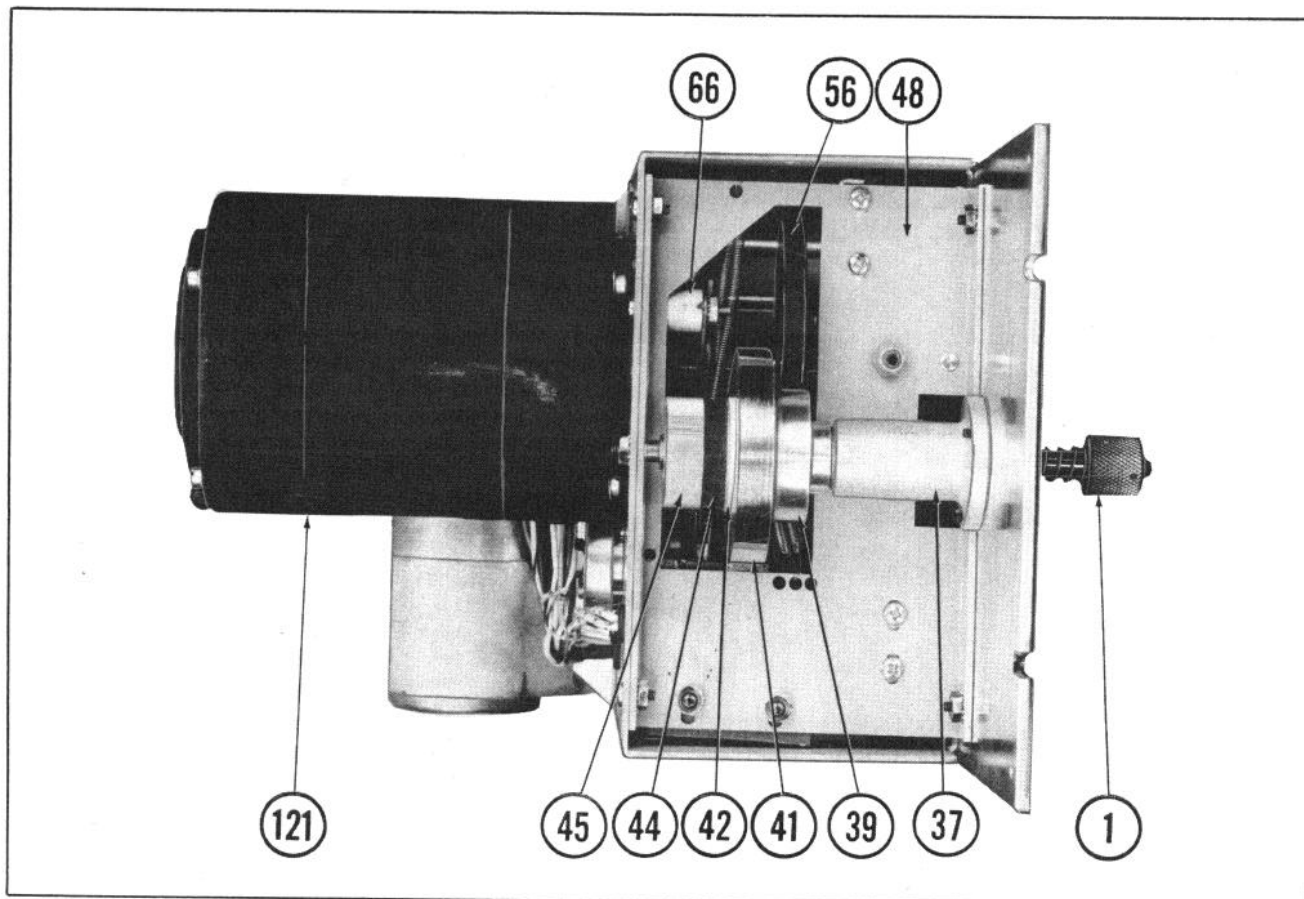


Figure 2. View of Right Side of Tape Transport.

Tubes — (1) Type 5879
 (1) Type 12SJ7
 (1) Type 6SL7
 (2) Type 5881
 (1) Type 5Y3

Dimensions — Amplifier; 8" deep, 7" high, 19" wide without carrying case. 13" deep, 8" high, 20" wide with carrying case. Transport Mechanism; 11" deep, 7" high, 19" wide without carrying case. 16" deep, 8" high, 20" wide with carrying case.

Weight — Amplifier; 20 lbs. without carrying case, 34 lbs. with carrying case. Transport mechanism; 26 lbs. without carrying case, 40 lbs. with carrying case.

INSTALLATION

PT6-6A and PT6-6J units may be mounted in portable cases or standard 19" racks without adapter panels.

OPERATING INSTRUCTIONS

PT6-6A motors and oscillator tube receive their power through male Jones connector on rear of unit. See schematic for terminal designation. This power is supplied by Magnecorder PT6-6J amplifier. Female Cannon connector on rear of PT6-6A is connected to male Cannon connector on rear of PT6-6J amplifier by an interconnecting cable. This cable couples Record-Reproduce head of transport mechanism to the playback amplifier input in the playback mode, and couples the output of the Record amplifier to the Record-Reproduce head in the record mode.

1. Make sure oscillator tube located in rear and at right side is secure in its socket.

2. Set control knob (30) to STOP.

3. Make sure correct capstan and pressure roller for desired speed and knurled retaining screws are firmly in place. For speed and speed changes see "General Information", page 2. Make sure taper-shaped capstan shaft is completely free from dirt or foreign particles before installing capstan.

Threading the Tape

1. Before a reel of tape can be placed on spindle, reel retaining knob (1) must be removed. To remove reel knob, push in and turn counterclockwise to release bayonet pin.

2. Place empty reel on take-up spindle (36), and replace reel retaining knob (1).

3. Place a reel of tape on rewind spindle (2), with tape paying off in clockwise direction, and replace reel retaining knob (1).

4. Pull off about 2 ft. of tape, thread over and around top tape guide roller (23), then around lower tape guide roller (9), over erase head (15), and Record-Playback head (29), between capstan (33) and pressure roller (35). Then thread on right hand empty reel. Make sure oxide coating on tape is toward heads. See illustration on front cover.

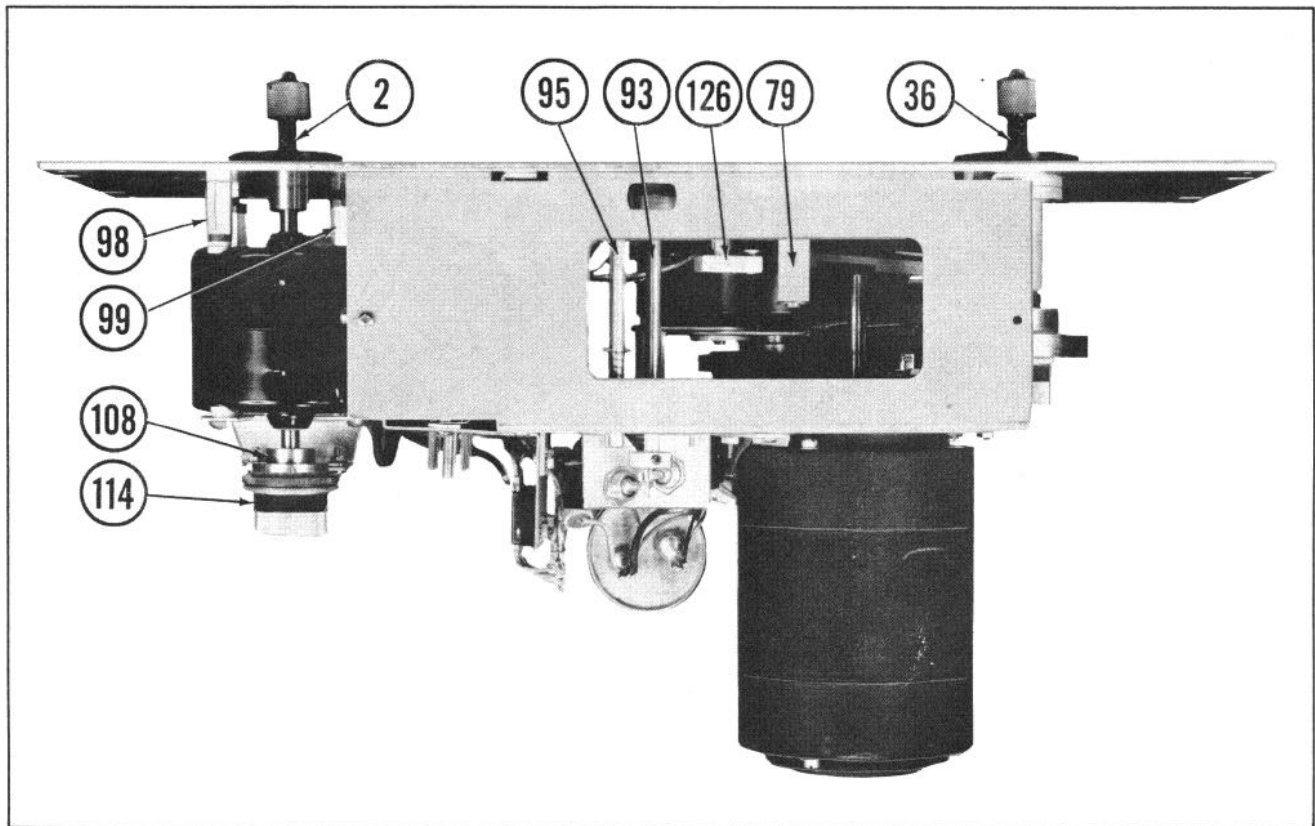


Figure 3. Bottom View of Tape Transport.

To Make a Recording

1. Flip power switch, on amplifier being used, to "ON". This provides necessary power for both amplifier and recorder mechanism.

2. Turn selector switch on amplifier to "Record" position.

3. Push VU meter switch in to connect meter, if PT6-6J amplifier is used with PT6-6A tape transport mechanism.

4. For headphone monitoring, insert plug of phones in amplifier front panel Monitor Jack. For speaker monitoring, turn speaker volume control up to desired position.

5. Vary volume level with Gain Control. Turning control clockwise increases amplifier gain. VU meter should move with program material and should read a peak value of "0" once every few seconds to a minute, depending upon nature of program being recorded.

6. To place tape transport mechanism in "Record" position, depress safety button (19) and simultaneously turn control knob (30) to "Forward". This sets tape in motion.

7. Red bias indicator will glow when oscillator is operating properly. This indicates a new recording is being made and previous recording on the tape will be erased.

8. When recording is completed, turn control knob (30) to "STOP".

To Rewind a Tape

1. To rewind tape, turn control knob (3) to "Stop", then place tape over guide roller (23) from reel to reel. Turn control knob to "Rewind". Rewind mechanism, driven by shaded-pole motor (102), will completely rewind 1200 ft. of tape (full 7" reel) in approximately 40 seconds.

2. Control knob (30) may be turned to "Stop" anytime during rewind without danger of tape spilling.

3. To rewind tape without unthreading, tape should be placed on top of Record-Reproducer head shield. Be sure tape is returned to its normal position on the heads before recording or reproducing.

Caution:

When switching from "Rewind" to "Forward", always pause in "Stop" position long enough for tape to come to a complete stop. Failure to do so will result in tape breakage due to tight grip which capstan and pressure roller exert on tape when control knob (30) is in "Forward" position.

To Playback a Tape

1. Make interconnections and correct speed as described under "Operating Instructions" on page 3.

2. Set selector switch on amplifier (PT6-6J amplifier) to "PLAYBACK" position.

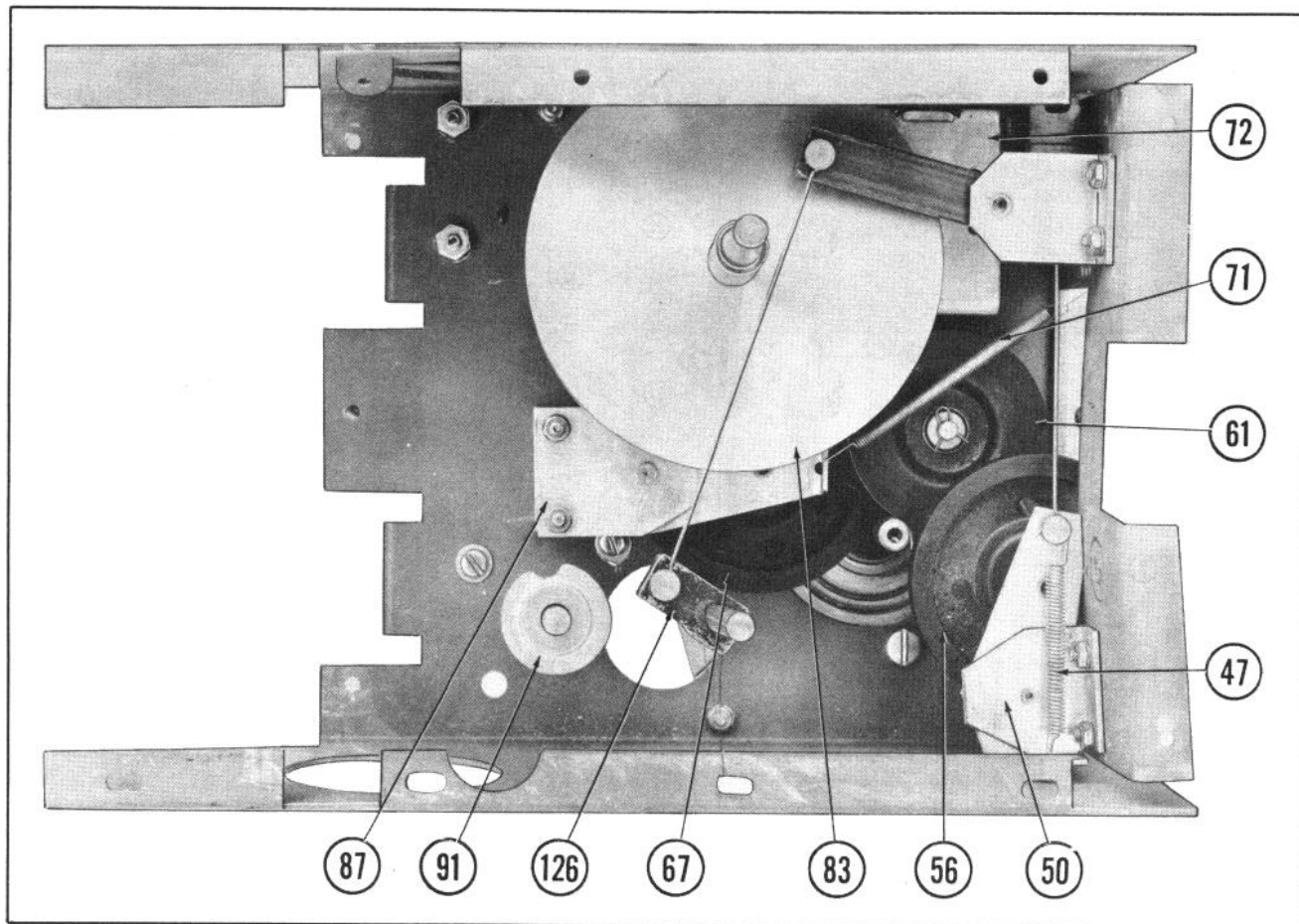


Figure 4. Tape Transport with Front Panel Removed.

3. Turn speaker volume control clockwise; pull meter switchout for "Off" if volume level on playback makes it necessary to prevent meter damage.

4. Depress safety button (19) and place control knob (30) in "Forward" position.

Hi-Speed Forward

"Hi-Speed Forward" control is the knob on right side of front panel. This control will function only with Main Control Knob in "Stop" position. To place machine in "Hi-Speed Forward", turn control to right and hold. To stop machine, release control.

If you have rewound tape too far, turn Hi-Speed Forward knob to reel tape rapidly forward until beginning of recording is reached.

Recording Indicator

Recording Indicator lamp will glow when plate supply voltage is supplied to oscillator tube. This indicates any previous recording on tape is being erased and a new recording may be made.

MECHANICAL OPERATION

Flywheel and Capstan

Balanced flywheel, drive hub and capstan shaft assembly (83), driven by two rubber-tired wheels (67 and 70), provide constant speed for tape.

Pressure Roller

Pressure Roller (35), actuated by control knob (30) through switch control shaft (93) and pressure roller arm assembly (79), with the tension spring keeps a positive pressure against tape and capstan, maintaining constant rate of tape travel.

Hi-Speed Forward

Hi-Speed Forward is put into operation by rotating Hi-Speed Forward control knob (17A) in a clockwise direction. This, in turn, actuates control shaft and wire (126), pivot arm (53), wire (52), and fast forward wheel mounting bracket (50), pulling fast forward wheel (56) into contact with drive motor shaft and take-up hub (39). Simultaneously, pivot arm (53) moves against fast forward actuating switch, starting main drive motor (121).

Rewind System

When control knob (30) is placed in "Rewind", switch (125) is actuated, starting rewind motor (102). A DC operated solenoid is also energized during rewind, pulling forward idler wheel (61) away from take-up hub (41), allowing bearing mounted take-up shaft (36) to turn freely. When rewind operation is completed, and control knob (30) returns to "Stop" position, solenoid is de-energized. This allows forward idler wheel (61) to contact take-up hub (41), applying a braking force sufficient to stop reel.

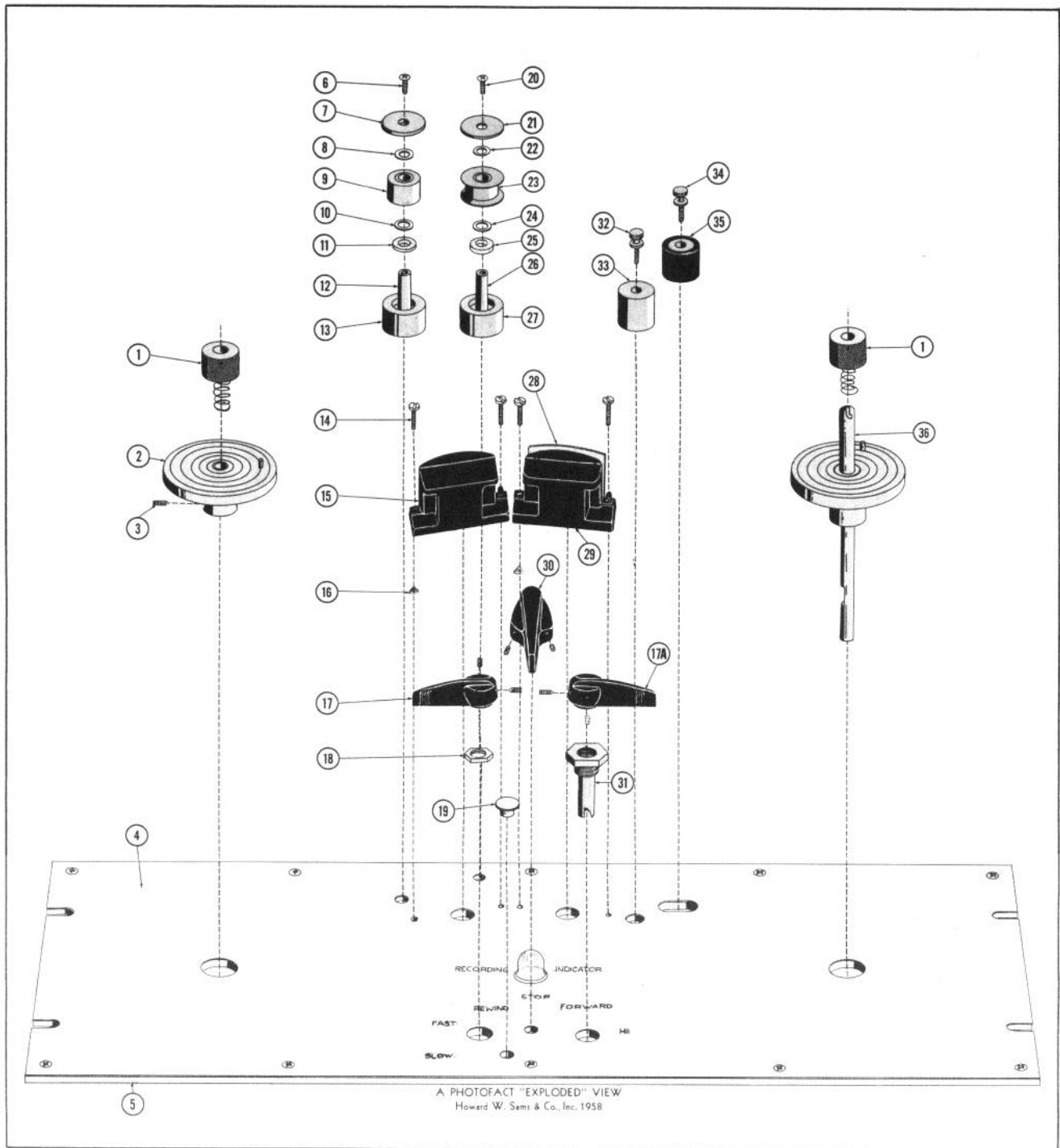
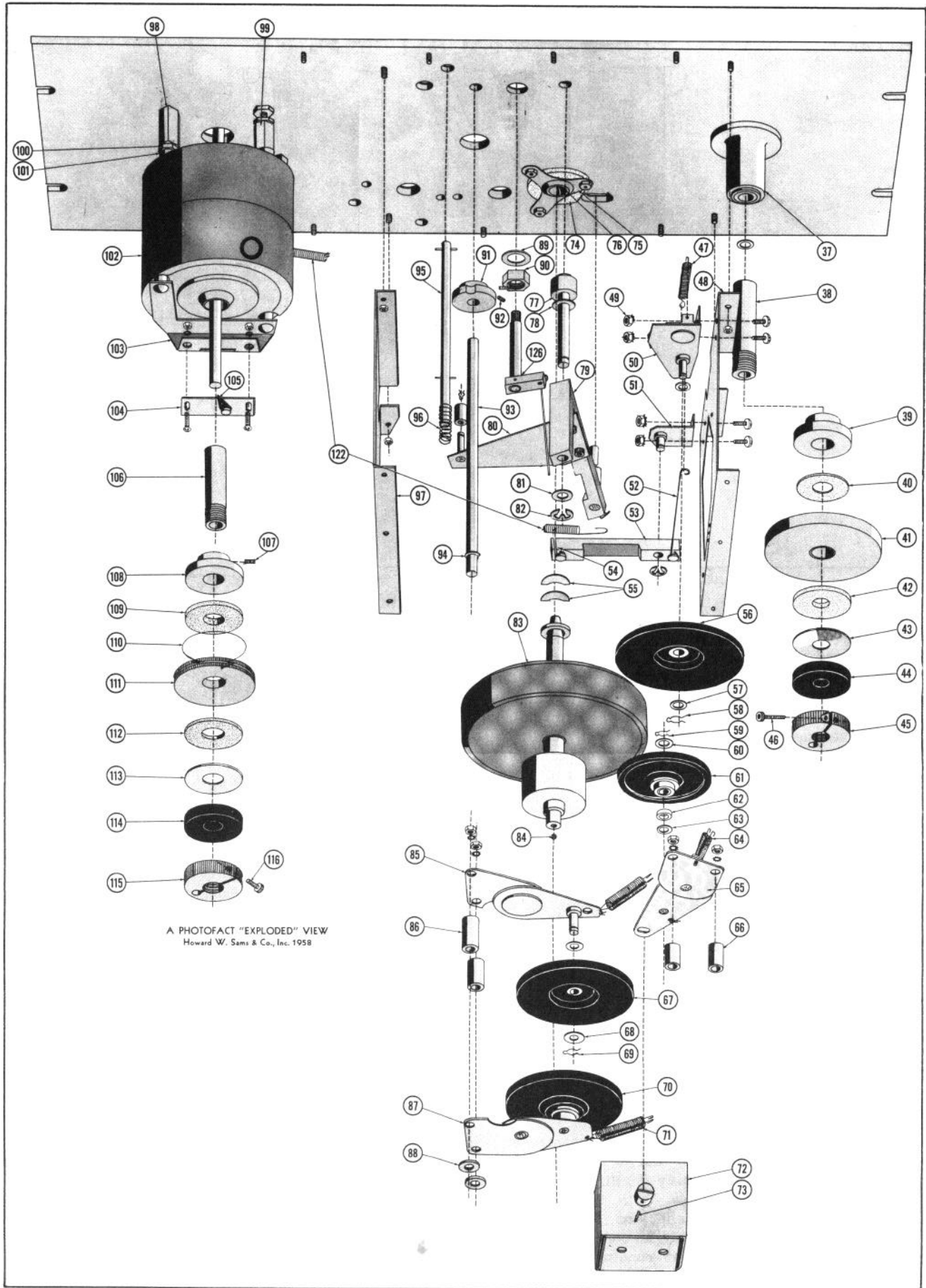


Figure 5A. Exploded View of Parts Above Front Panel.



A PHOTOFACIT "EXPLODED" VIEW
Howard W. Sams & Co., Inc. 1958

Figure 5B. Exploded View of Parts Below Front Panel.

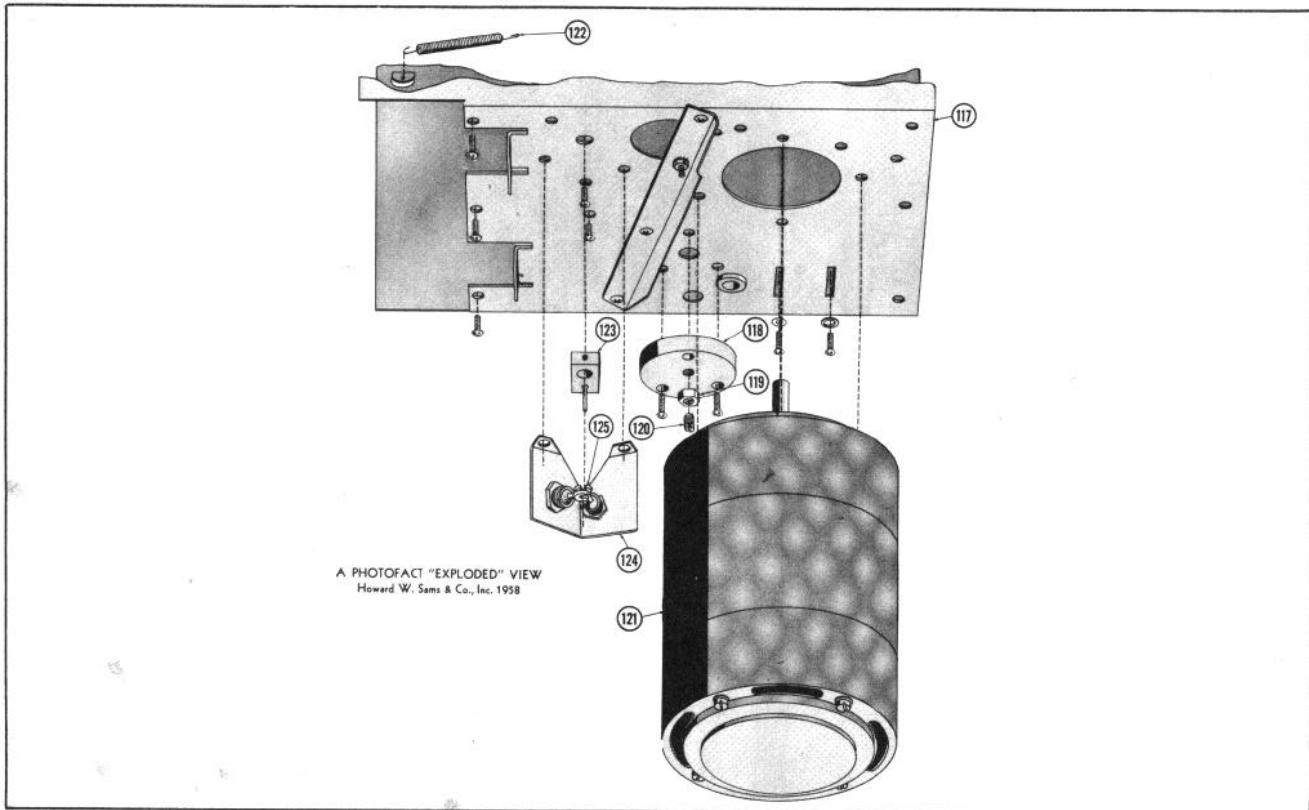


Figure 5C. Exploded View of Parts Below Back Panel.

The "one way" pawl-actuated clutch on rear shaft extension of rewind motor (102) operates so that, as tape is unwound from payoff spindle (2), a certain amount of drag is imparted to motor shaft, which is then transmitted to tape as tension. When rewinding, pawl is disengaged from ratchet disc (111) by direction sensitive rewind pawl spring (110), allowing motor shaft to turn freely. A rapid rewind results.

Drive System

The drive system is driven by main drive motor (121) through two rubber-tired idler wheels (67 and 70), mounted on sliding suspension arm supports (85 and 87). Idler wheels (67 and 70) are held in contact with hub of flywheel assembly (83) and drive motor shaft (121) by springs (71). This, in turn, drives capstan (33), which is secured to flywheel shaft and, with pressure roller (35), conveys tape at a constant speed.

Take-Up System

Take-up shaft (36) is driven by forward idler wheel (61), making contact with drive motor shaft and take-up hub (41). Take-up hub (41) is concentrically mounted on take-up shaft (36) and is coupled to the shaft through a clutch assembly (39 thru 46) similar to that in the rewind system. With tape properly threaded on recorder and mechanism in "Forward", take-up shaft (36) slips a certain amount due to pressure applied on tape by slower running capstan and pressure roller. Consequently, tension imparted to tape causes tape to move from one reel to the other without throwing or stalling.

ADJUSTMENTS

Head Alignment

1. The primary purpose in head alignment is to provide maximum frequency response.

(NOTE: Before attempting to align record-reproduce head, make certain difficulty is not due to an accumulation of tape coating residue on pole surfaces.)

2. The right mounting screw of the record-reproduce head is drawn up securely. This side of head holder is provided with a rocker action. Left adjustment screw (14) is associated with a compression spring. Rotating this screw changes gap alignment with respect to tape. Proper alignment is achieved when maximum signal, at a given setting of the gain control, is reproduced from alignment tape, as alignment screw (14) is turned in or out.

Solenoid Adjustments

The Plunger of Solenoid (72), energized during rewind, should pull against springs (64) and lift idler wheel (61) away from drive motor shaft by 1/16", but maintain contact between idler wheel (61) and the take-up wheel (41). When mechanism is switched from "Rewind" to "Stop" the solenoid relaxes, spring (64) returns idler wheel (61) into contact with drive motor shaft. This shaft is not turning and in turn, idler wheel (61) is prevented from turning. This stops free rotation of Take-up Wheel (41), acting as a brake on the take-up shaft.

Solenoid (72) should be positioned to accomplish the above. The solenoid is mounted by two screws in

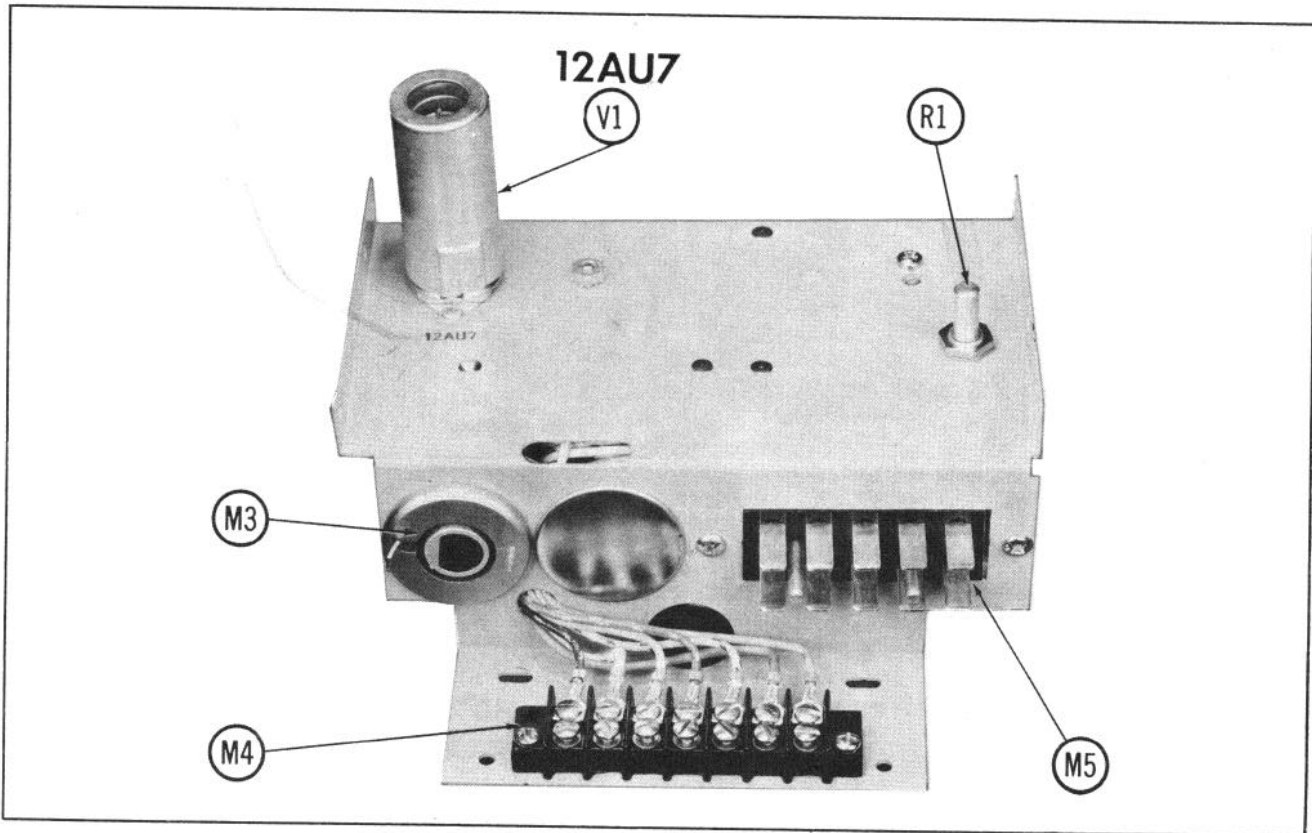
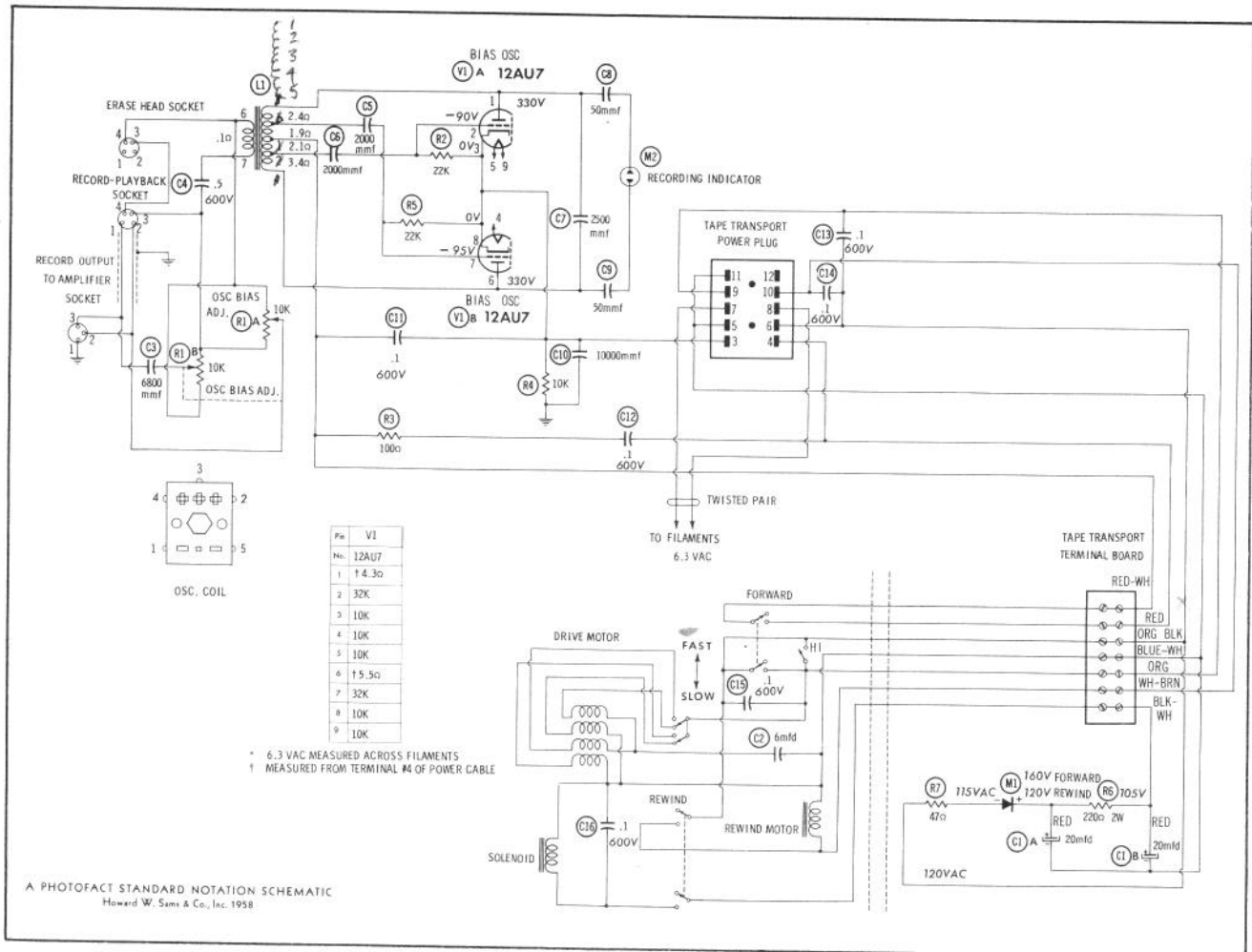


Figure 6. Top View of Bias Oscillator Chassis.



TAPE TRANSPORT SCHEMATIC PT6-6A

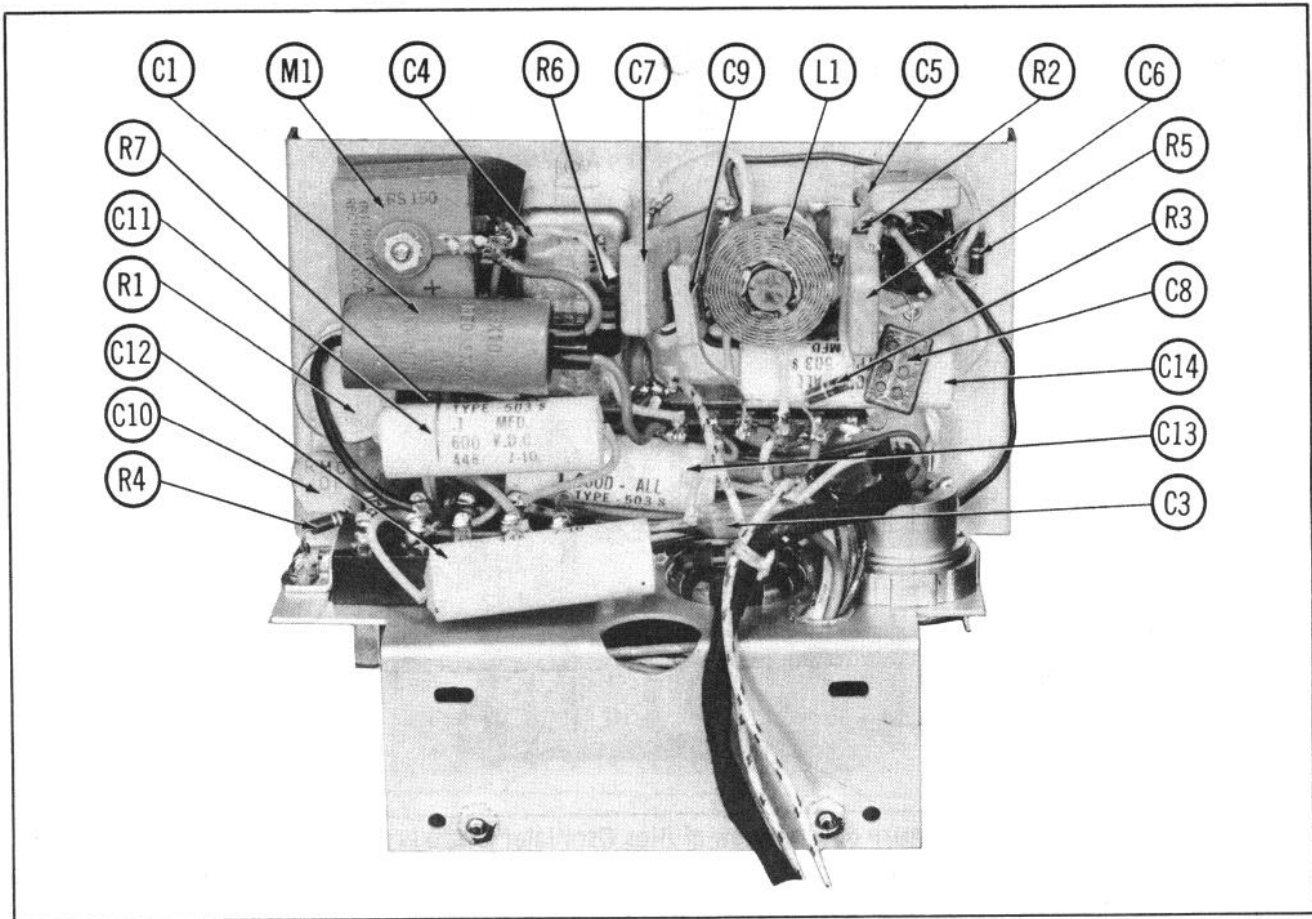


Figure 7. Bottom View of Bias Oscillator Chassis.

slotted holes in back panel above drive motor (121). When readjusting solenoid, be careful plunger does not bind within tube. To check this, place recorder in its operating position and operate control knob (with power applied to mechanism) between "Rewind" and "Stop". Return springs (64) should have enough tension to return idler wheel (61) to normal position when there is no binding of solenoid plunger.

Clutch Adjustments

Tape tension is maintained by two friction clutches. Their correct adjustment causes tape to move from one reel to the other in either direction without throwing tape or stalling and applies proper tape tension for tape contact on heads.

1. Clutches are located on rear ends of supply reel spindle (2) and take-up reel spindle (36). Supply reel spindle clutch is located at right side (facing rear of unit). It consists of a felt washer (112) lubricated with silicone fluid pressing against a ratchet (111), free to rotate in a clockwise direction but prevented from turning in opposite direction by a spring-loaded pawl (105). Pressing against opposite side of felt washer is a brass washer (113) and a sponge rubber washer (114). On the other side of the ratchet (111) is a silicone lubricated felt washer (109) which also exhibits a clutch effect. To remove complete friction assembly, loosen screws (107) and (116) and slide assembly off shaft. A split knurled adjustment locknut (115) bears against sponge rubber washer (114)

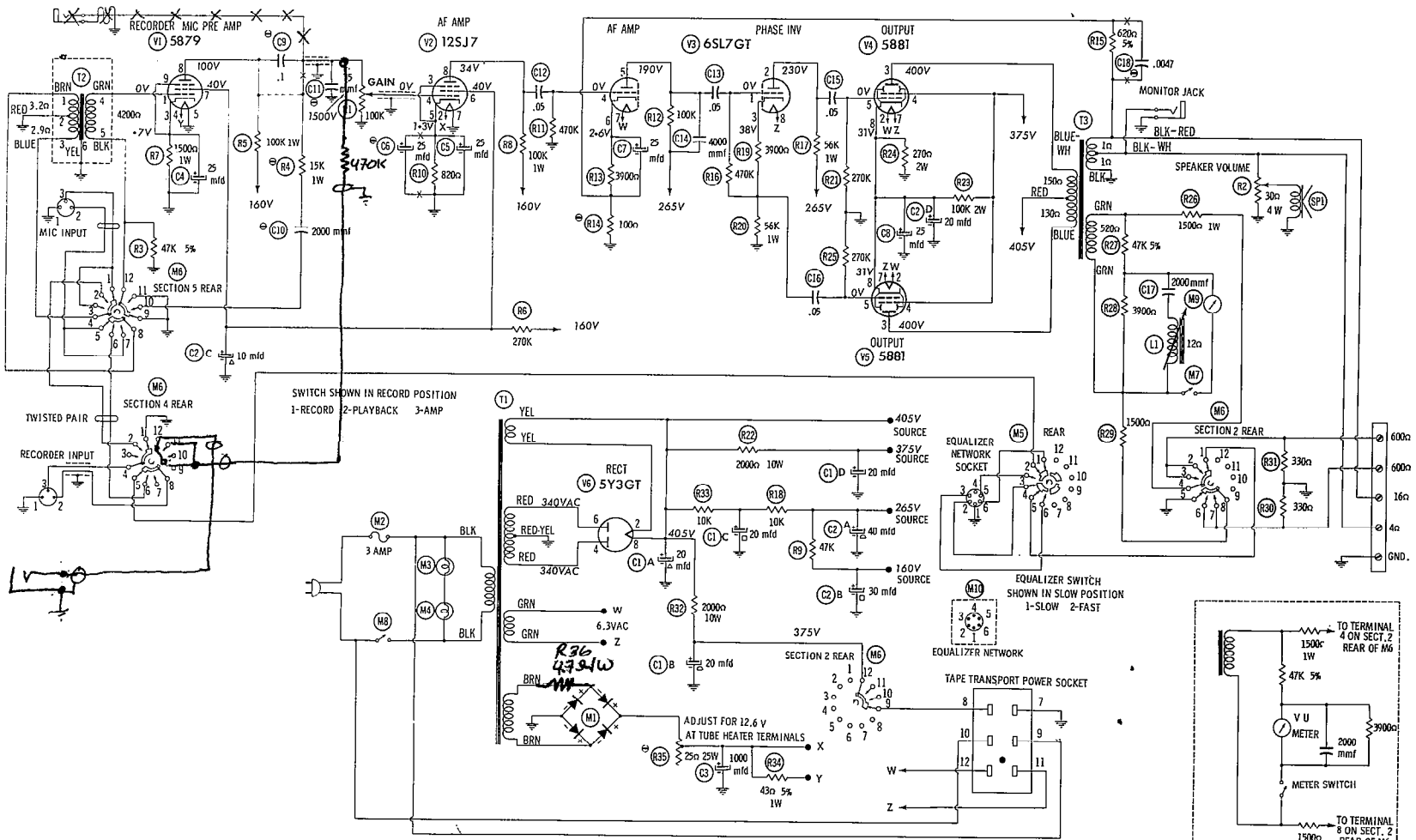
and is loaded in place by a set screw (116). Set screw must be backed off before adjusting locknut (115) can be turned. Rotating adjustment locknut clockwise increases clutch friction.

2. The supply reel spindle clutch adjustment should maintain a drag as supply reel rotates when recorder is in "Forward" operation. This drag should be sufficient to stop supply reel without permitting tape to loop, or to be thrown when control knob switch is turned from "Forward" to "Stop". The amount of friction should be minimum necessary to accomplish this, (3 to 4 inch ounces).

3. Too much clutch friction will increase tape drag to a point where tape speed will cause flutter and wow.

4. Take-up reel (36) friction clutch is located on left side (facing the rear). This is similar in appearance to the other clutch but employs no pawl. It is also necessary to back off set screw (46) before adjusting this clutch.

5. Take-up reel spindle friction clutch couples spindle to synchronous drive motor, when control knob is set to "Forward", and acts as a brake on take-up reel when control knob is set to "Stop". Clutch adjustment should provide sufficient friction for take-up reel to take up tape at normal speed forward when take-up reel is almost completely full and supply



Bridge in

1. MEASURED FROM PIN 8 OF V6
NC NO CONNECTION
TP TIE POINT

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	5879	51K	0 ω	1500 ω	6 ω	0 ω	TP	† 325K	† 165K	1500 ω
V2	12SJ7	TP	0 ω	820 ω	0 ω	820 ω	† 335K	9 ω	† 165K	
V3	6SL7	525K	† 175K	60K	470K	† 120K	4000 ω	0 ω	.1 ω	
V4	5881	TP	.1 ω	† 150 ω	† 2000 ω	270K	TP	0 ω	270 ω	
V5	5881	TP	0 ω	† 130 ω	† 2000 ω	270K	TP	.1 ω	270 ω	
V6	5Y3GT	0 ω	20K(min)	NC	80 ω	TP	77 ω	NC	20K(min)	

A PHOTOFACT STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958

AMPLIFIER SCHEMATIC MODELS PT6-J, PT6-6J

Bridge in current used 9/74 per info manual
Serial 01388 only 9/74

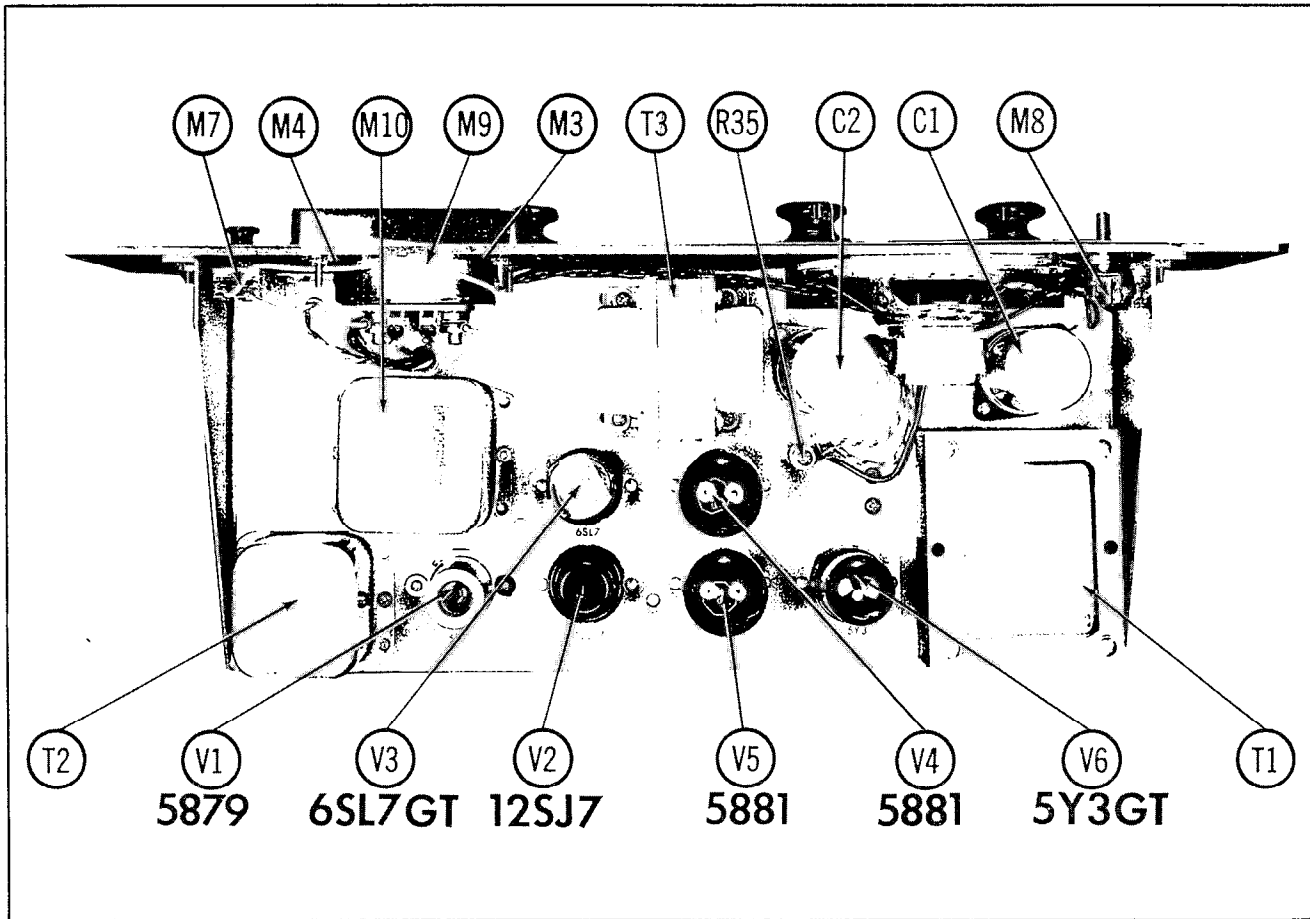


Figure 8. Top View of PT6-6J Amplifier Chassis.

reel nearly empty. It should also provide sufficient braking to maintain tape tension and prohibit tape throw when control switch is turned to "Stop", after take-up reel has been rotating at high speed during rewind. The split, knurled locknut (45) should be adjusted to provide minimum clutch friction to accomplish this. About 4 to 6 inch oz. for the take-up clutch is correct friction.

CLEANING

Portions of the erase and the record-reproduce head which contact the tape must be kept free of dust, grease and foreign matter, or frequency response characteristics will suffer. Clean with a soft cloth slightly moistened with carbon tetrachloride or ethyl alcohol after every five hours of operation.

(NOTE: Do not attempt to apply carbon tetrachloride to any part of recorder when loaded reels are in place. Tape is soluble in carbon tetrachloride and will be ruined if it comes in contact with the solution. After using carbon tetrachloride, make sure heads are completely dry before threading tape and none of solution is transferred to the tape from the fingers.)

Oiling the Clutch Felts

Felt washers have been lubricated with silicone fluid at the factory to provide correct amount of slippage.

Caution:

Do not oil clutch felts. This may cause oil to be thrown on nearby idlers, causing slippage in the drive system.

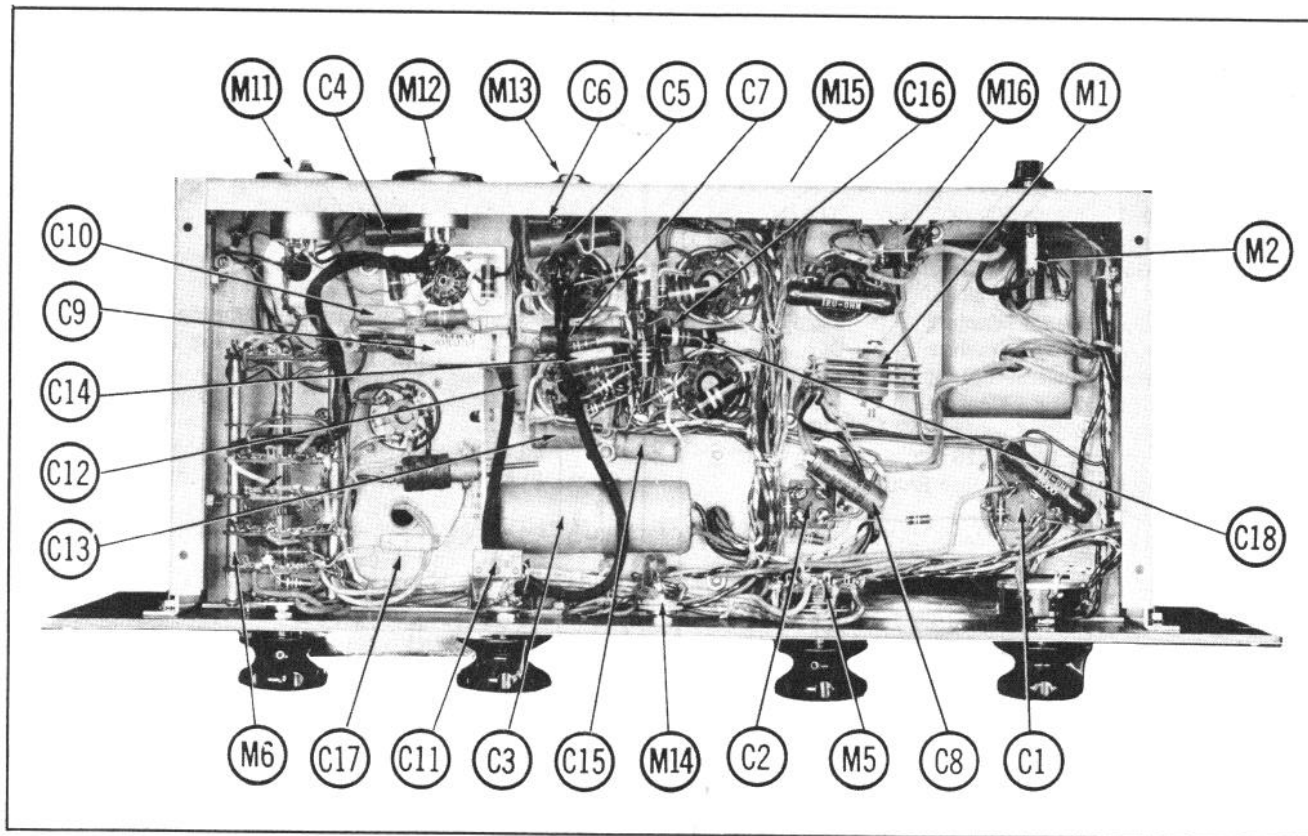


Figure 9. Bottom View of PT6-6J Amplifier Chassis.

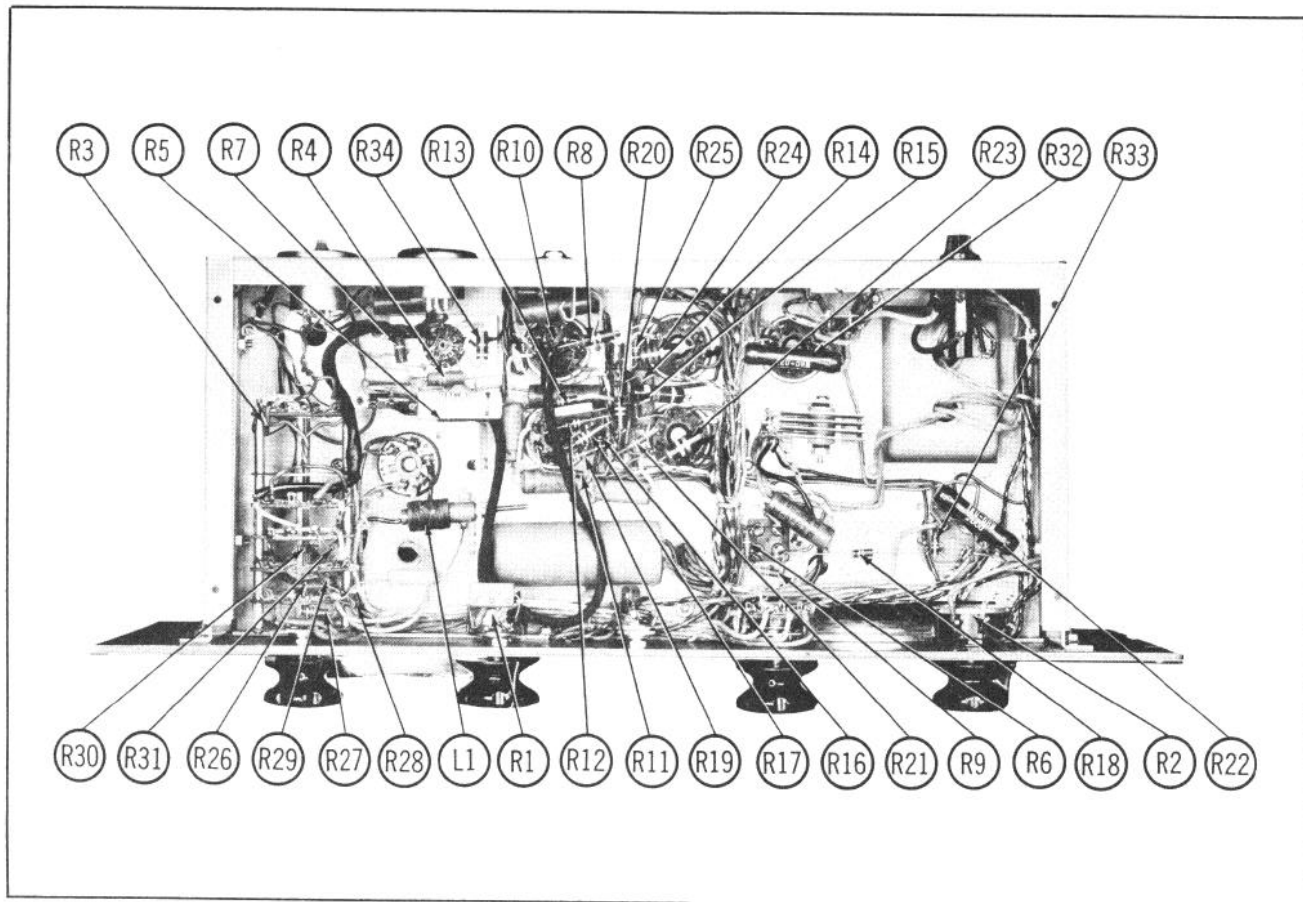


Figure 10. Bottom View of PT6-6J Amplifier Chassis.

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description
1	91A5	Reel Retainer (2)
2	91A82	Rewind Reel Flange Assembly
3	61-8SS3	8 x 32 x 3/16 Allen Hd. Set Screw
4	71D772	Matte Panel
5	71D771	Front Panel
6	61-4PB5	#4-40 x 5/16 Phillips B.H.M.S. St. N.P.
7	63A5	Dural Washer
8	63A28	Fibre Washer
9	91A49	Roller & Bearing Ass'y.
10	63A28	Fibre Washer
11	63X29	Felt Spacer .257 I.D. x 7/16 O.D. x 1/16 Th.
12	76A8	Guide Roller Shaft
13	75A11	Spacer
14	61-2112	Screw, Mach. 2-56 x 3/4 Fillister Hd. N.P. (4)
15	91A17	Erase Head Assembly
16	77A25	Head Adjusting Spring (2)
17	87A8	Knob With Set Screws (2)
18	62-43H20	7/16-20 Hex Nut Steel N.P.
19	75A96	Safety Knob
20	61-4PB5	#4-40 x 5/16 Phillips B.H.M.S. St. N.P.
21	63A5	Dural Washer
22	63A28	Fibre Washer
23	91A10	Roller & Bearing Assembly
24	63A28	Fibre Washer
25	63X29	Felt Spacer .257 I.D. x 7/16 O.D. x 1/16 Th.
26	76A8	Guide Roller Shaft
27	75A11	Spacer
28	91A56	Top Shield & Lining Assembly
29	91A57	Record & Reproduce Head Final Assembly
30	87A14	Control Knob With Set Screws
31	75A37	Control Sleeve
32	61-4K6	4-32 x 3/8 Knurled H.M.S. Brass
33	75A16	7 1/2" Capstan 60 Cycle (Not Shown in Exploded View)
	75A15	15" Capstan 60 Cycle (Shown In Exploded View)
34	61-4K5	4-36 x 5/16 Knurled H.M.S. Brass
35	91A14	7 1/2" Pressure Roller Assembly 60 Cycle (Not Shown in Exploded View)
	91A15	15" Pressure Roller Assembly 60 Cycle (Shown in Exploded View)
36	91A51	Take-up Shaft & Bayonet Spindle Assembly
37	91A52	Take-up Bearing & Housing Ass'y
38	75A63	Take-up Hub Tube
39	75A62	Take-up Hub Flange
40	63A9	Felt Washer
41	91A38	Take-up Wheel & Bearing Ass'y.
42	63A9	Felt Washer
43	63A10	Brass Washer
44	63A11	Rubber Washer
45	75A70	Locknut
46	61-8CS8	8-32 x 1/2" Lg. Allen Hd. Cap. Screw
47	77A35	Spring
48	71B41	Right Half Side Panel

Ref. No.	Part No.	Description
49	62-6H4	#6 Hex Nut
50	72A42	Puck Arm Bracket
51	91A217	Lever Mounting Bracket & Stud Assembly
52	78A13	Wire Link Short
53	78A91	Pivot Arm
54	78A12	Wire Link
55	63A98	Capstan Shaft Spring Washer (2)
56	91A86	Fast Forward Puck 2 1/2"
57	63A19	Washer
58	67A12	Hairpin Retainer
59	67A12	Hairpin Retainer
60	63A19	Fibre Washer
61	91A740	Take-up Puck Assembly 2"
62		Felt Washer
63	63A19	Fibre Washer
64	77A4	Puck Springs (2)
65	91A739	Puck Arm & Plate Assembly-Take-up
66	75A44	Take-up Puck Plate Spacer (2)
67	91A26	Drive Puck Assembly 2 1/2"
68	63A19	Fibre Washer
69	67A12	Hairpin Retainer
70	91A26	Drive Puck Assembly 2 1/2"
71	77A4	Puck Springs (2)
72	31A23	Solenoid
73	67X7	3-32 x 1/2" Drive Loc. Pin
74	63A8	Felt Washer
75	78A22	Bearing Retainer
76	74A21	Capstan Bearing
77	76A2	Pressure Arm Shaft Washer
78		Washer
79	91A11	Pressure Arm Assembly
80	91A214	Pressure Arm Plate Assembly
81		Washer
82		"C" Washer
83	91A765	Capstan Shaft Assembly
84	78X28	Ball Bearing
85	91A216	Puck Arm & Plate Assembly-Drive
86	75A45	Puck Plate Spacer-Long
87	91A216	Puck Arm & Plate Assembly-Drive
88	75A44	Washer
89		Control Sleeve Washer (Part of Item 31)
90		Control Sleeve Nut (Part of Item 31)
91	74A66	Cam
92	61-6SS3	6-32 x 3/16 Allen Set Screw (2)
93	76A39	Switch Shaft
94	67X13	1/4" Tru-Arc Retaining Ring
95	91A31	Safety Shaft & Pin Assembly
96		Safety Shaft Spring
97	71B58	Left Hand Side Panel
98	75A282	Spacer, Long Rewind Motor (2)
99	91A918	Spacer, Short With Bumper, Rewind Motor (2)
100		Rewind Motor Mounting Nut (4)
101	75A283	Motor Spacer (2)
102	35B16	Rewind Motor
103	72A134	Pawl Mtg. Plate Bracket
104	71A319	Pawl Mtg. Plate
105	71A87	Pawl

MECHANICAL PARTS LIST (Continued)

Ref. No.	Part No.	Description
106	75A85	Rewind Hub Tube
107	61-8SS3	8-32 x 3/16 Allen Hd. Set Screw
108	75A84	Rewind Hub Flange
109	63A9	Felt Washer
110	77A2	Pawl Spring
111	75A86	Ratchet
112	63A9	Felt Washer
113	63A10	Brass Washer
114	63A11	Rubber Washer
115	91A70	Locknut Assembly
116	61-8BCS8	8-32 x 1/2 Lg. Allen Hd. Cap Screw

Ref. No.	Part No.	Description
117	91C2	Back Panel Assembly
118	75A30	Thrust Housing
119	62-25H720	1/4-20 Hex Nut x 7/16 St. N.P.
120	61A18	1/4-20 x 1/2 Set Screw-Thrust
121	35B49	Drive Motor, Hysteresis Synchronous, 2-Speed 900-1800 RPM
122	77A6	Pressure Arm Spring
123	91A30	Switch Arm & Pin Assembly
124	72A3	Switch Mounting Bracket
125	43X14	Switch D.P.S.T. (2)
126	91B736	Control Linkage Assembly

ELECTRICAL PARTS LIST - PT6-6A

BIAS OSCILLATOR

Ref. No.	Part No.	Description
V1	97-12AU7	Bias Oscillator
C1A	23X10	Cap.,Elect., 20 mfd. @ 150V
C1B		Cap.,Elect., 20 mfd. @ 150V
C2	22X8	Cap., Oil, 6 mfd. @ 220V.
C3	21X21	Cap.,Mica, .0068 mfd. @ 300V
C4	26X8	Cap.,Bathtub, .5 mfd. @ 600V
C5	21X6	Cap.,Mica, .002 mfd. @ 500V
C6	21X6	Cap.,Mica, .002 mfd. @ 500V
C7	21X1	Cap.,Mica, .0025 mfd. @ 500V
C8	21X4	Cap.,Mica, 50 mmf. @ 500V
C9	21X4	Cap.,Mica, 50 mmf. @ 500V
C10	28X1	Cap.,Ceramic Disc, .01 mfd. @ 400V
C11	28X2	Cap.,Ceramic Tub., .1 mfd. @ 600V
C12	28X2	Cap.,Ceramic Tub., .1 mfd. @ 600V
C13	28X2	Cap.,Ceramic Tub., .1 mfd. @ 600V
C14	28X2	Cap.,Ceramic Tub., .1 mfd. @ 600V

Ref. No.	Part No.	Description
C15	22X15	Cap.,Ceramic Tub., .1 mfd. @ 400V
C16	22X15	Cap.,Ceramic Tub., .1 mfd. @ 400V
R1A	14X32	Bias Osc. Control,10K, 1/2Watt
R1B		Bias Osc. Control,10K,1/2 Watt
R2	11X10	Resistor, 22K, 1/2 Watt
R3	11X14	Resistor, 100Ω, 1/2 Watt
R4	11X2	Resistor, 10K, 1/2 Watt
R5	11X10	Resistor, 22K, 1/2 Watt
R6	11X129	Resistor, 220Ω, 1/2 Watt
R7	11X21	Resistor, 47Ω, 1 Watt
L1	31A6	Bias Oscillator Coil
M1	42A5	Selenium Rectifier, 150 MA @ 150V
M2	41X11	Neon Bulb, Recording Indicator Lamp, #NE-51
M3	54X2	Cannon Receptacle - Female
M4	56X1	Barrier Terminal Strip
M5	55X4	Jones Plug, 10 prong, Male

ELECTRICAL PARTS LIST - PT6-J or PT6-6J

AMPLIFIER

Ref. No.	Part No.	Description
V1	97-5879	Recorder-Mic. Preamp
V2	97-12SJ7	AF Amplifier
V3	97-6SL7GT	AF Amplifier-Phase Inverter
V4	97-5881	Audio Output
V5	97-5881	Audio Output
V6	97-5Y3GT	Rectifier
C1A	23X23	Cap.,Elect., 20 mfd. @ 450V
C1B		Cap.,Elect., 20 mfd. @ 450V
C1C		Cap.,Elect., 20 mfd. @ 450V
C1D		Cap.,Elect., 20 mfd. @ 450V
C2A	23X9	Cap.,Elect.,40 mfd. @ 450V
C2B		Cap.,Elect.,30 mfd. @ 450V
C2C		Cap.,Elect., 10 mfd. @ 450V
C2D		Cap.,Elect.,20 mfd. @ 25V

Ref. No.	Part No.	Description
C3	23X1	Cap.,Elect.,1000 mfd. @ 15V <i>25V</i>
C4	23X12	Cap.,Elect.,25 mfd. @ 25V
C5	23X12	Cap.,Elect., 25 mfd. @ 25V
C6	23X12	Cap.,Elect., 25 mfd. @ 25V
C7	23X12	Cap.,Elect., 25 mfd. @ 25V
C8	23X12	Cap.,Elect., 25 mfd. @ 25V
C9	22X15	Cap.,Ceramic Tub., .1 mfd. @ 400V.(Some versions use .05 mfd. @ 400V.)
C10	21X6	Cap.,Mica, .002 mfd. @ 500V (Some versions use .0025 mfd.)
C11	21X26	Cap.,Mica, 75 mmf. @ 1500V (Some versions use 50 mmf.)
C12	22X3	Cap.,Paper Tub., .05 mfd. @ 400V

ELECTRICAL PARTS LIST -- PT6-J or PT6-6J AMPLIFIER (Continued)

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C13	22X3	Cap., Paper Tub., .05 mfd. @400V	R29	11X28	Resistor, 1500Ω, 1/2 Watt
C14	21X5	Cap., Mica, .0004 mfd. @ 500V	R30	11X11	Resistor, 330Ω, 1/2 Watt
C15	22X3	Cap., Paper Tub., .05 mfd. @400V	R31	11X11	Resistor, 330Ω, 1/2 Watt
C16	22X3	Cap., Paper Tub., .05 mfd. @400V	R32	12X4	Resistor, 2000Ω, 10 Watt
C17	21X6	Cap., Mica, .002 mfd. @500V			Wirewound
C18	22X78	Cap., Molded Tub., .0047 mfd. @ 400V (Not used in Some Versions)	R33	11X2	Resistor, 10K, 1/2 Watt
R1	14X21	Control, Gain, 100K, 1/2 Watt	R34	13X15	Resistor, 43Ω, 5% 1 Watt
R2	14X6	Control, Speaker Volume, 30Ω, 4 Watt Wirewound	R35	12X20	Resistor, 25 Ω, 10 Watt Wire-wound Adjustable. (Tap is adjusted to 12.6V on heater line.)
R3	13X7	Resistor, 47K, 5% 1/2 Watt	<i>7/21 R36</i>	<i>4.75W, 1070</i>	Coil, Adjustable
R4	11X34	Resistor, 15K, 1Watt (Some Versions use 47K)	L1	31X5	Power Transformer, 700VCT @ 100 MA, 5V @ 2A, 6.3V @ 2.4A, 17V @ 300 MA
R5	11X67	Resistor, 100K, 1 Watt	T1	32B29	Input Transformer
R6	11X6	Resistor, 270K, 1/2 Watt	T2	32X1	Output Transformer, Pri. Imp. 5500Ω CT, Sec. Imp., Sec. 1 -600Ω, Sec. 2 -16Ω tapped at 4Ω
R7	11X28	Resistor, 1500Ω, 1 Watt	T3	32B30	Speaker, 5" PM, 3-4Ω VC
R8	11X67	Resistor, 100K, 1 Watt	SP1	33X6	Selenium Rectifier, 300 MA <i>(4) IN 2070 Diodes in bridge 7/24 FSA</i>
R9	13X7	Resistor, 47K, 1/2 Watt	M1	42X6	Fuse, 3A. Slo-Blo, type 3AG
R10	11X15	Resistor, 820Ω, 1/2 Watt	M2	53X10	Fuse Holder
R11	11X4	Resistor, 470K, 1/2 Watt	M2	53X5	Pilot Lamp - VU Meter
R12	11X9	Resistor, 100K, 1/2 Watt	M3		Pilot Lamp - VU Meter
R13	11X8	Resistor, 3900Ω, 1/2 Watt	M4		Equalization Switch, Rotary Wafer Type
R14	11X14	Resistor, 100Ω, 1/2 Watt (Some Versions use 220Ω)	M5	43X74	Function Switch, Rotary Wafer Ganged Type
R15	13X3	Resistor, 620Ω, 5% 1/2 Watt	M6	43A122	Meter Switch, Leaf Type
R16	11X4	Resistor, 470K, 1/2 Watt	M7	43X20	Power Switch, SPST Bat Handle Toggle
R17	11X138	Resistor, 56K, 1 Watt	M8	43X16	VU Meter, Includes M3 and M4
R18	11X2	Resistor, 10K, 1/2 Watt	M9	46B9	Equalizing Network, Plug-in
R19	11X8	Resistor, 3900Ω, 1/2 Watt	M10	91B87	Cannon Receptacle, Female
R20	11X138	Resistor, 56K, 1 Watt	M11	54X2	Cannon Receptacle, Male
R21	11X6	Resistor, 270K, 1/2 Watt	M12	55X10	Phone Jack
R22	12X4	Resistor, 2000Ω, 10 Watt Wirewound	M13	57X4	Phone Jack
R23	11X112	Resistor, 100K, 2 Watt	M14	57X4	Terminal Strip, 5 Contact
R24	17057	Resistor, 270Ω, 2 Watt (Some Versions Use 250Ω 5 Watt)	M15	56X3	Jones Socket, 6 Contact Female
R25	11X6	Resistor, 270K, 1/2 Watt	M16	54X1	Control Knobs, 4 Used
R26	11X28	Resistor, 1500Ω, 1 Watt			
R27	13X7	Resistor, 47K, 5% 1/2 Watt			
R28	11X8	Resistor, 3900Ω, 1/2 Watt			

Modified 7/74 Serial #01385 only

FACTORY WARRANTY

"Magnecord products are guaranteed to be free of defects in materials and workmanship for a period of 90 days from date of sale to initial user. Magnecord will replace or repair any parts found defective during the warranty period subject to factory inspection and approval. Warranty is void unless warranty cards are fully executed and mailed to the factory within ten days of purchase."



Magnecord

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TULSA, OKLAHOMA