

ELECTRICAL PARTS LIST(RADIO) Con't.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R46		Resistor, 10K Ω , 1/2 Watt	L2	C133-3	Ferrite Antenna
R47		Resistor, 47K Ω	L3	A132-9	AM Osc. Coil
T3	A132-4	IF Transformer, Input	L4		RF Choke(Wound on 1K Ω Resistor)
T4	A132-5	IF Transformer, Output	M7	A142-1	Tuning Capacitor, 2 Gang

PHOTOFACT* Folder

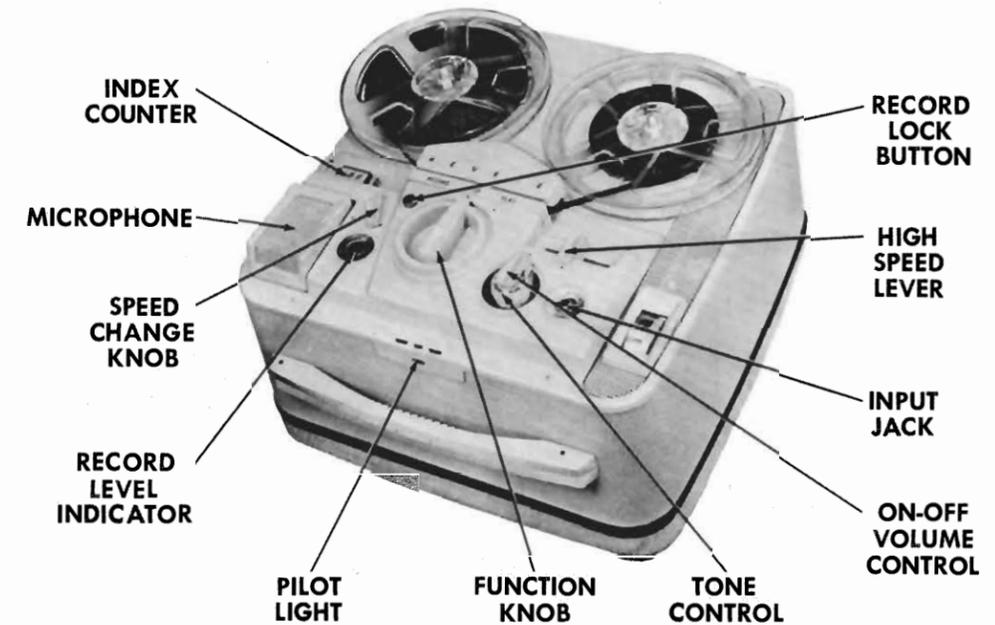


Figure 1

GENERAL INFORMATION

These Revere Tape Recorders are of the same basic design and construction. There are variations in the power input requirements and some have additional or extra features. The major differences in the various models are listed below:

Model No.	Line Voltage	Tape Speed	Model No.	Line Voltage	Tape Speed
T-900	120, 60v	3 3/4	TR-1000	120, 60v	3 3/4
TS-905	120, 50v	3 3/4	TRS-1005	120, 50	3 3/4
TS-925	230, 50v	3 3/4	TRS-1025	230, 50v	3 3/4
TS-926	230, 60v	3 3/4	TRS-1026	230, 60v	3 3/4
T-1100	120, 60v	3 3/4-7 1/2	TR-1200	120, 60v	3 3/4-7 1/2
TS-1105	120, 50v	3 3/4-7 1/2	TRS-1205	120, 50v	3 3/4-7 1/2
TS-1125	230, 50v	3 3/4-7 1/2	TRS-1225	230, 50v	3 3/4-7 1/2
TS-1126	230, 60v	3 3/4-7 1/2	TRS-1226	230, 60v	3 3/4-7 1/2
T-1400	120, 60v	3 3/4			
TS-1405	120, 50v	3 3/4			
TS-1425	230, 50v	3 3/4			
TS-1426	230, 60v	3 3/4			

Above Models Contain Built-in Radio.

On the serial nameplate, located on the rear of the case, there appears the model number, along with the speed, current and voltage at which that particular unit is designed to operate.

CAUTION: Do Not Use On Direct Current. Before connecting recorder to line supply be absolutely certain that it agrees with the above specifications.

Manufactured by:

Revere Camera Company
320 East Twenty-First Street
Chicago 16, Illinois

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026, TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105, TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100

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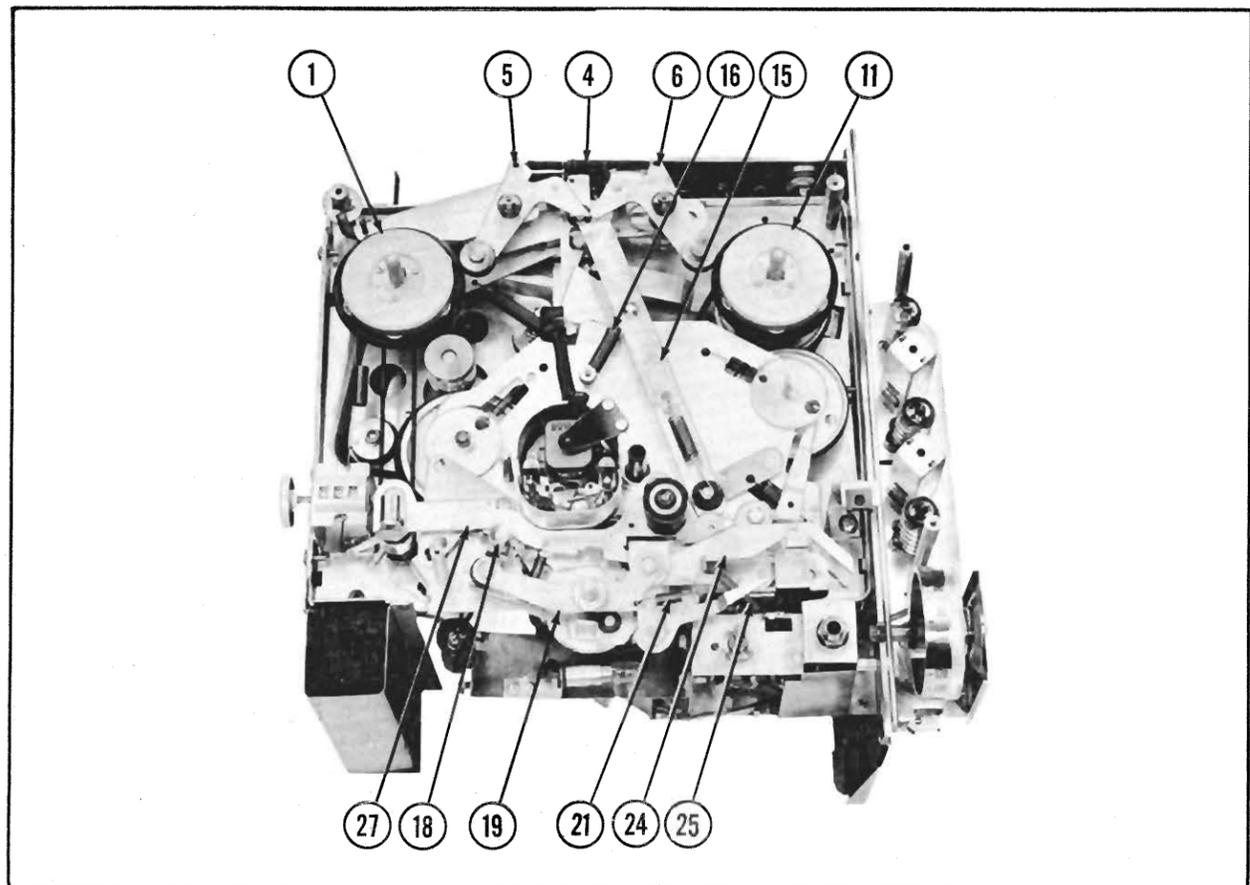


Figure 2

SPECIFICATIONS

Weight-

27 lbs. (approx.)

Size-

9 1/2 x 14 x 13 1/2 inches (approx.)

Reel Size-

Up to 7 inch.

Tracks-

Dual

Track Selection-

Manual turnover.

Tape Loading-

Drop-in-slot type.

Tape Speed-Play and Record-

7 1/2 and 3 3/4 inches per second. Some Models have 3 3/4" speed only.

Fast Forward-

7" reel in 90 seconds. (approx.)

Fast Rewind-

7" reel in 90 seconds. (approx.)

Recording Time(7" reel)-

1 hour at 7 1/2 ips. (1/2 hour each track).
2 hours at 3 3/4 ips. (1 hour each track).

Frequency Response-Models T-1100 & TR-1200-

+3db, 85 to 7000 cps. at 3 3/4 ips.
+3db, 75 to 12,000 cps. at 7 1/2 ips.

FUNCTIONS OF THE CONTROLS

(Refer to Figure 1)

On-Off Volume Control-

Turning this control clockwise supplies power to the entire recorder and regulates the volume for both the recording and play back operations.

Function Knob-

All electrical and mechanical functions for the Play and Record operations are performed by this single 3-position knob. Also, for convenience and protection, the Function Knob is returned to "Stop" when the power switch is turned off. This disengages all pressure pads and rubber wheels for safe storage of the instrument.

ELECTRICAL PARTS LIST (AMPLIFIER) Con't.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C23		Cap., Ceramic, 300MMF.	R24D		Resistor, 47KΩ
C24		Cap., Ceramic, 5000MMF.	R24E		Resistor, 47KΩ
C25		Cap., Molded Paper, .047MFD. @ 500V.	R25		Resistor, 1.5KΩ, 1Watt(Used only in models employing radio)
C26A		Cap., 1000MMF.	R26		Resistor, 10KΩ, 1/2 Watt (22KΩ♦)
C26B		Cap., 680MMF.	R27		Resistor, 100KΩ, 1/2 Watt
C26C		Cap., 680MMF.	R28		Resistor, 100KΩ, 1/2 Watt
C27		Cap., Molded Paper, .0047MFD. @ 1000V.	R29		Resistor, 470KΩ, 1/2 Watt
C28		Cap., Ceramic, 1000MMF. (3000 MMF. *)	R30		Resistor, 220KΩ, 1/2 Watt
R1		Vol. Cont. & Sw., 500KΩ	R31		Resistor, 470KΩ, 1/2 Watt
R2		Tone Cont., 1Meg.	R32		Resistor, 330Ω, 2 Watt
R3		Hum Cont., 100Ω	R33		Resistor, 470KΩ, 1/2 Watt
R4		Resistor, 22KΩ, 1/2 Watt	R34		Resistor, 18KΩ, 1 Watt
R5		Resistor, 1Meg., 1/2 Watt	R35A		Resistor, 650Ω
R6		Resistor, 10KΩ, 1/2 Watt	R35B		Resistor, 650Ω } 12 Watt
R7		Resistor, 10Ω, 1 Watt	R36		Resistor, 4.7Ω, 1/2 Watt
R8		Resistor, 10Meg., 1/2 Watt	T1	B130-3	Power Transformer(Used in models TR-1000, TRS-1005, TR-1200, and TRS-1205)
R9		Resistor, 4.7Ω, 1/2 Watt		B130-4	Power Transformer(Used in models TRS-1025, TRS-1026, TRS-1225 and TRS-1226)
R10		Resistor, 10KΩ, 1/2 Watt		B130-1	Power Transformer(Used in models T-900, TS-905, T-1100, TS-1105, T-1400 and TS-1405)
R11		Resistor, 10Meg., 1/2 Watt		B130-2	Power Transformer(Used in models TS-925, TS-926, TS-1125, TS-1126, TS-1425 and TS-1426)
R12		Resistor, 470KΩ, 1 Watt	T2	A131-1	Output Transformer
R13		Resistor, 220KΩ, 1 Watt	SP1	C160-1	Speaker
R14		Resistor, 15KΩ, 1/2 Watt	SP2	C160-2	Speaker
R15		Resistor, 33KΩ, 1/2 Watt	L1	A132-8	Bias Osc. Coil(A132-1 ♦)
R16		Resistor, 33KΩ, 1/2 Watt	M1	A141-1	Record-Stop-Play Slide Switch
R17		Resistor, 18KΩ, 1/2 Watt	M2	A141-8	Speed Equalization Switch(Used only in models having 3 3/4" and 7 1/2" tape speeds)
R18		Resistor, 220K, 1/2 Watt	M3		Pilot Lamp, Type #47
R19		Resistor, 1Meg., 1/2 Watt (120KΩ*)	M4		Neon Lamp, Type #NE45
R20		Resistor, 1.5KΩ, 1/2 Watt (470Ω*)	M5	TR-7801	Motor(For 120 volt, 50 or 60 cycle application)
R21		Resistor, 10Meg., 1/2 Watt	M5	TR-7802	Motor(For 230 volt, 50 or 60 cycle application)
R22		Resistor, 680Ω, 1/2 Watt(Used only in models employing radio and both tape speeds. Omitted or shorted in other models)	M6		Fuse(When replacing use fuse of duplicate type and value)
R23		Resistor, 1Meg., 1/2 Watt(Used only in models having 3 3/4" and 7 1/2" tape speed)			
R24A		Resistor, 47KΩ			
R24B		Resistor, 47KΩ			
R24C		Resistor, 47KΩ			

♦Alternate part used in models not employing radio.

*Alternate part used only in models having 3 3/4" tape speed.

ELECTRICAL PARTS LIST-RADIO

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
V5		6BE6, Conv.	C35B		Cap., Ceramic Dual, 10,000MMF.
V6		6BA6, IF Amp.	C36		Cap., Composition, .68MMF.
V7		6AV6, Det-AVC	C37A		Cap., 50MMF.
C29		Cap., Molded Paper .047MFD. @ 200V.	C37B		Cap., 50MMF.
C30		Cap., Ceramic, 47MMF.	R37		Resistor, 22KΩ, 1/2 Watt
C31		Cap., Ceramic, 13MMF.	R38		Resistor, 1Meg., 1/2 Watt
C32		Cap., Ceramic, 15,000MMF. @ 1600V.	R39		Resistor, 220Ω, 1/2 Watt
C33		Cap., Composition, .22MMF.	R40		Resistor, 3.3KΩ, 1/2 Watt
C34A		Cap., Ceramic Dual, 10,000MMF.	R41		Resistor, 4.7Meg. @ 1/2 Watt
C34B		Cap., Ceramic Dual, 10,000MMF.	R42		Resistor, 3.3KΩ, 1/2 Watt
C35A		Cap., Ceramic Dual, 10,000MMF.	R43		Resistor, 18KΩ, 2 Watt
			R44		Resistor, 4.7KΩ, 2 Watt
			R45		Resistor, 470KΩ, 1/2 Watt

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026, TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105, TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1		Rewind Spindle Assembly	38		Play-Record-Erase Head
1A		Spindle Cup Tire-Rewind	39		Pressure Arm Spring-Record
2		Rewind Spindle Hub	40		Pressure Pad Arm-Record
3		Index Counter Drive Belt	41		Pressure Pad Arm-Erase
4		Brake Arm Spring	42		Pressure Arm Spring-Erase
5		Left Brake Assembly	43		Mechanism Plate-Upper
6		Right Brake Assembly	44		High Speed Idler Arm
7		Stop Latch Actuating Spring	45		Pressure Roller Arm Assy.
8		Instant Stop Locking Latch	46		Pressure Roller Arm Spring
9		Instant Stop Lever	47		High Speed Slide Assy.
10		Rear Slide Cam	48		Mechanism Shaft Lower Guide Plate
11		Take-Up Spindle Assembly	49		7 1/2 ips. Idler Wheel
11A		Spindle Cup Tire-Takeup	50		High Speed Idler Wheel
12		High Speed Clutch Spring	51		Rewind Arm
13		High Speed Forward Cup	52		Rewind Arm Spring
14		Pressure Roller Spring	53		Take-up Clutch Plate
15		Brake Arm	54		Clutch Spring
16		Brake Arm Return Spring	55		Take-Up Drive Pulley
17		Mechanism Control Shaft	56		Take-Up Drive Belt
18		Record Lock Button	57		Toggle Arm
19		Mechanism Control Shaft Guide Plate	58		Take-Up Clutch Lever
20		Pressure Roller	59		Flywheel & Capstan Assy.
21		Function Knob Lock Spring	60		3 3/4 ips. Idler Wheel
22		Record Lock Lever	61		Index Counter Worm Gear
23		Function Knob Lock Lever	62		3 3/4 ips. Drive Plate Spring
24		Function Knob Release Lever	63		3 3/4 ips. Drive Plate
25		Release Lever Spring	64		High Speed Slide Connecting Arm
26		"Record" and "Play" Position Lock Lever	65		Motor Pulley
27		Instant Stop Arm	66		Index Counter Assembly
28		Instant Stop Actuating Spring	67		Motor Fan
29		Function Knob Stop Bracket	68		Speed Change Index Spring
30		Pressure Roller Actuating Lever	69		Motor
31		Function Knob Control Cam	70		Speed Control Shaft
32		7 1/2 ips. Idler Wheel Pivot Plate	71		3 3/4ips. Drive Plate Actuating Cam
33		Idler Wheel Slide	72		Speed Equalization Sw. Actuating Cam
34		Idler Spring	73		Mechanism Plate-Lower
35		Idler Spring	74		Play-Record Sw. Actuating Cam
36		High Speed Idler Slide	75		Speed Equalization Sw. Actuating Arm
37		Head Retainer	76		7 1/2 ips. Idler Wheel Actuating Cam

ELECTRICAL PARTS LIST-AMPLIFIER

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
V1		12AX7, Pre-Amp.	C12		Cap., Ceramic, 15,000MMF. @ 1600V. (.047MFD. *)
V2		6S4, AF Amp. (6C4*)	C13		Cap., Ceramic, 15,000MMF. @ 1600V. (Used Only in models having 3 3/4" tape speed)
V3		6V6GT, Bias Osc. - Audio Output	C14		Cap., Molded Paper, .1MFD. @ 500V.
V4		6X5GT, Rectifier	C15		Cap., Ceramic, 300MMF. (Omitted in models having 3 3/4" tape speed)
C1A		Cap. Elect., 30MFD. @ 450V.	C16		Cap., Ceramic, 2000MMF. (Omitted in models having 3 3/4" tape speed)
C1B		Cap. Elect., 30MFD. @ 400V.	C17		Cap., Molded Paper, .1MFD. @ 200V.
C1C		Cap. Elect., 30MFD. @ 350V.	C18		Cap., Molded Paper, .047MFD. @ 500V. (Used only in models employing radio)
C1D		Cap. Elect., 40MFD. @ 25V.	C19A		Cap., Ceramic Dual, 10,000MMF. (1000MMF. ♦)
C2A		Cap., Elect., 30MFD. @ 350V.	C19B		Cap., Ceramic Dual, 10,000MMF. (Used only in models employing radio)
C2B		Cap., Elect., 15MFD. @ 350V.	C20		Cap., Mica, 3000MMF.
C2C		Cap., Elect., 10MFD. @ 300V.	C21		Cap., Ceramic, 10,000MMF. (2000 MMF. ♦)
C3		Cap., Ceramic, 10,000MMF.	C22		Cap., Ceramic, 2000MMF.
C4		Cap., Ceramic, 10,000MMF.			
C5		Cap., Ceramic, 2,000MMF.			
C6		Cap., Ceramic, 15,000MMF. @ 1600V.			
C7		Cap., Ceramic, 2,000MMF.			
C8		Cap., Ceramic, 2,000MMF.			
C9		Cap., Ceramic, 100MMF.			
C10		Cap., Ceramic, 15,000MMF. @ 1600V.			
C11		Cap., Ceramic, 1,000MMF. (2000 MMF. ♦)			

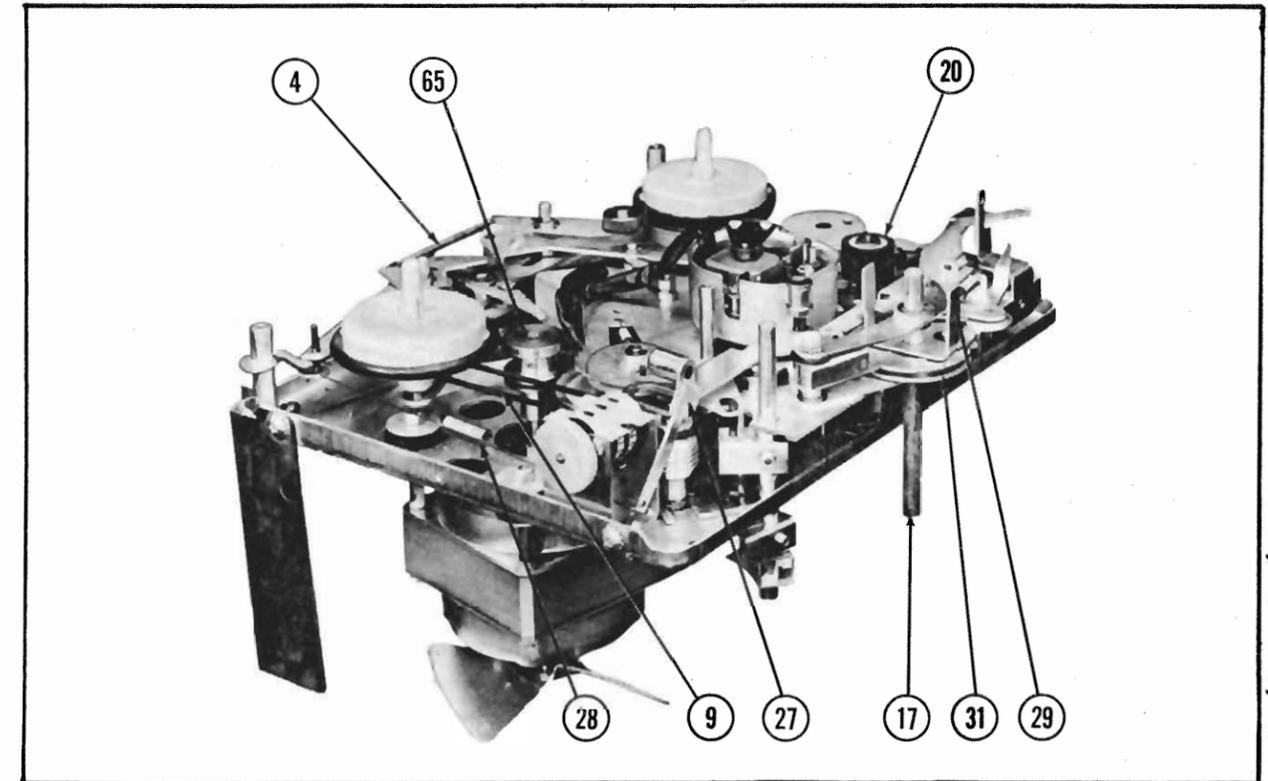


Figure 3

Speed Change Knob-

This knob can be turned to either 3 3/4 ips., slow speed, "S" or 7 1/2 ips., fast speed, "F" while machine is in any function. Insofar as quality of recording-reproduction is concerned, the higher the speed, generally, the greater will be the fidelity.

Record Lock Button-

This button must first be depressed before the Function Knob can be placed in the "Record" position, thus preventing accidental erasure.

Instant Stop Button-

This button is provided to instantly stop the tape in either "Record" or "Play". Examples of its use are: To prevent recording of unwanted breaks in radio programs; to hold back the tape for noiseless instantaneous starts in either "Record" or "Play"; to precisely preset the record level while the Function Knob is in "Record"; to momentarily stop tape while transcribing.

High-Speed Lever-

This control is used to skip ahead to any point on the tape or to rewind tape onto the supply reel. By moving this control to the right the tape will move ahead at high speed while moving it to the left will rewind the tape at high speed.

Index Counter-

Set the counter to zero at the beginning of a reel by turning back its knurled knob. When a recording is started, note the counter reading. This will enable sections to be located instantly in the future.

OPERATING INSTRUCTIONS

Preparing for Operation-

1. Secure the line cord socket in the slot provided at the back of the case and plug the line cord plug into a convenient wall receptacle of the proper rating.

2. Place a reel of tape on the left spindle and an empty reel on the right spindle, making sure the reels are fully seated.

3. Unwind about 14" of tape from the left-hand reel. Hold a section of tape straight with both hands and drop it into tape slot. Make sure the dull coated side of the tape faces the rear of the recorder.

4. Feed the end of the tape into one of the radial slots in the empty reel. Rotate the reel counterclockwise until the tape is secured and all slack is taken up between reels.

To Record From Microphone-

1. Insert the microphone plug into the Input Jack, making certain it is all the way down.

2. Set the Index Counter to zero. This enables you to rewind to the exact start of a recording.

3. While talking into the microphone, adjust the Volume Control until the "Normal" indicator flashes and no flashing occurs at the "Distort" indicator.

NOTE: Correct recording volume is very important. Too weak a signal, which does not cause the "Normal" indicator to flash, will result in weak playback and high background noise. Too strong

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026, TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105, TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100

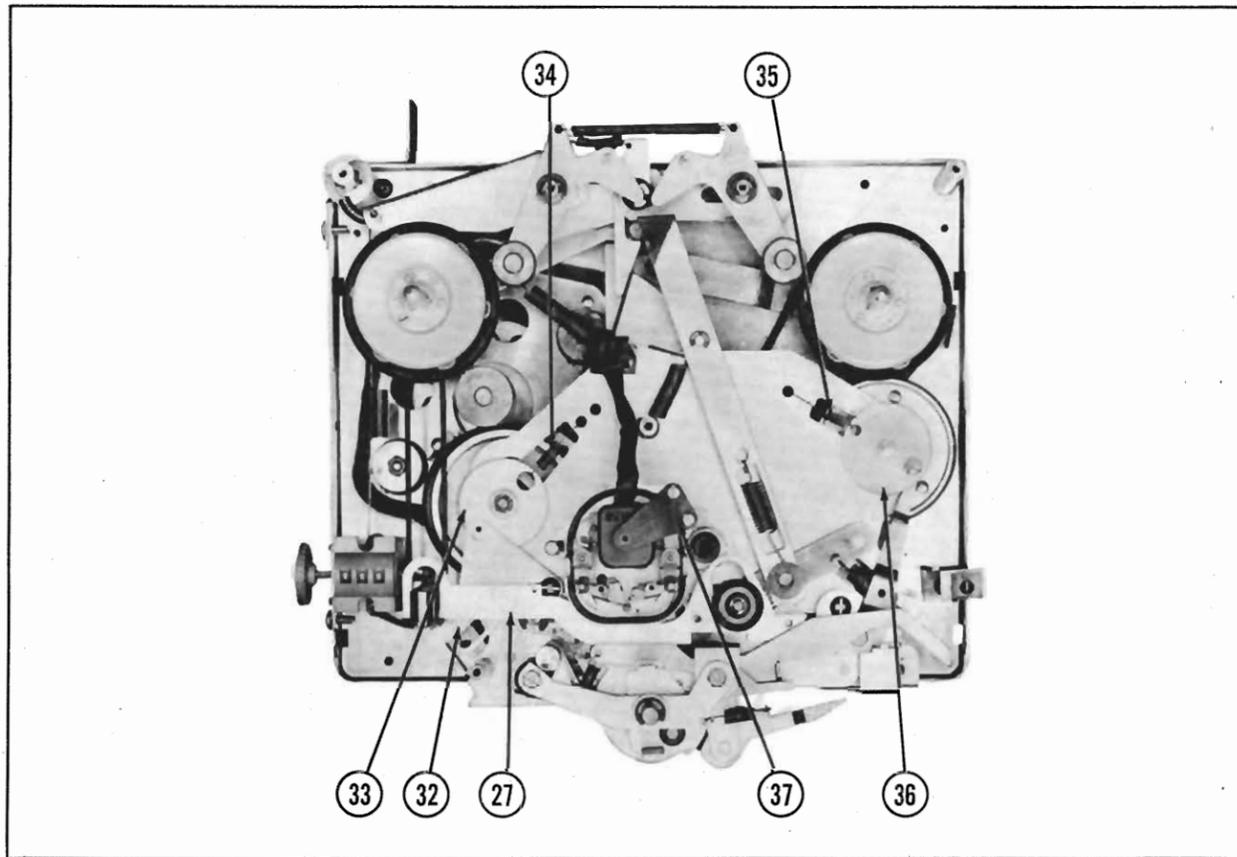


Figure 4

a signal, causing the "Distort" indicator to flash, will result in distortion during playback.

4. While holding the Record Lock Button in its depressed position, turn Function Knob fully counterclockwise.

To Record From Built-In Radio-

No external connections are needed. Remove any plug from the Input Jack and set the record level as described under "To Record From Microphone".

To Record From Ext. Radio Or T. V. -

Recordings can be made from a radio or television receiver by placing the microphone near the loudspeaker, however, this type of recording may not be satisfactory as other sounds may be picked up by the microphone which, as a result, will be recorded on the tape. A superior quality recording can be made by connecting the attachment cord, supplied with the recorder, as follows:

1. Insert the cord plug into the Input Jack of the recorder.

2. Connect the cord clips to the radio or T. V. speaker terminals.

3. Proceed with recording as described under "To Record From Microphone".

To Record From Phonograph-

Most crystal or magnetic type phonographs have a standard phone plug that can be plugged directly into

the Input Jack, otherwise, the attachment cord may be used by connecting as follows:

1. Insert the cord plug into the Input Jack.

2. Connect cord clips to the pick-up leads on the phonograph.

NOTE: Should a hum develop from this connection, reverse the cord clips on the pick-up leads.

3. Proceed with the recording as described under "To Record From Microphone."

Twin Track Recording-

1. These recorders are designed so that a reel of tape will hold two full length recordings, one on each half of the dull side of the tape.

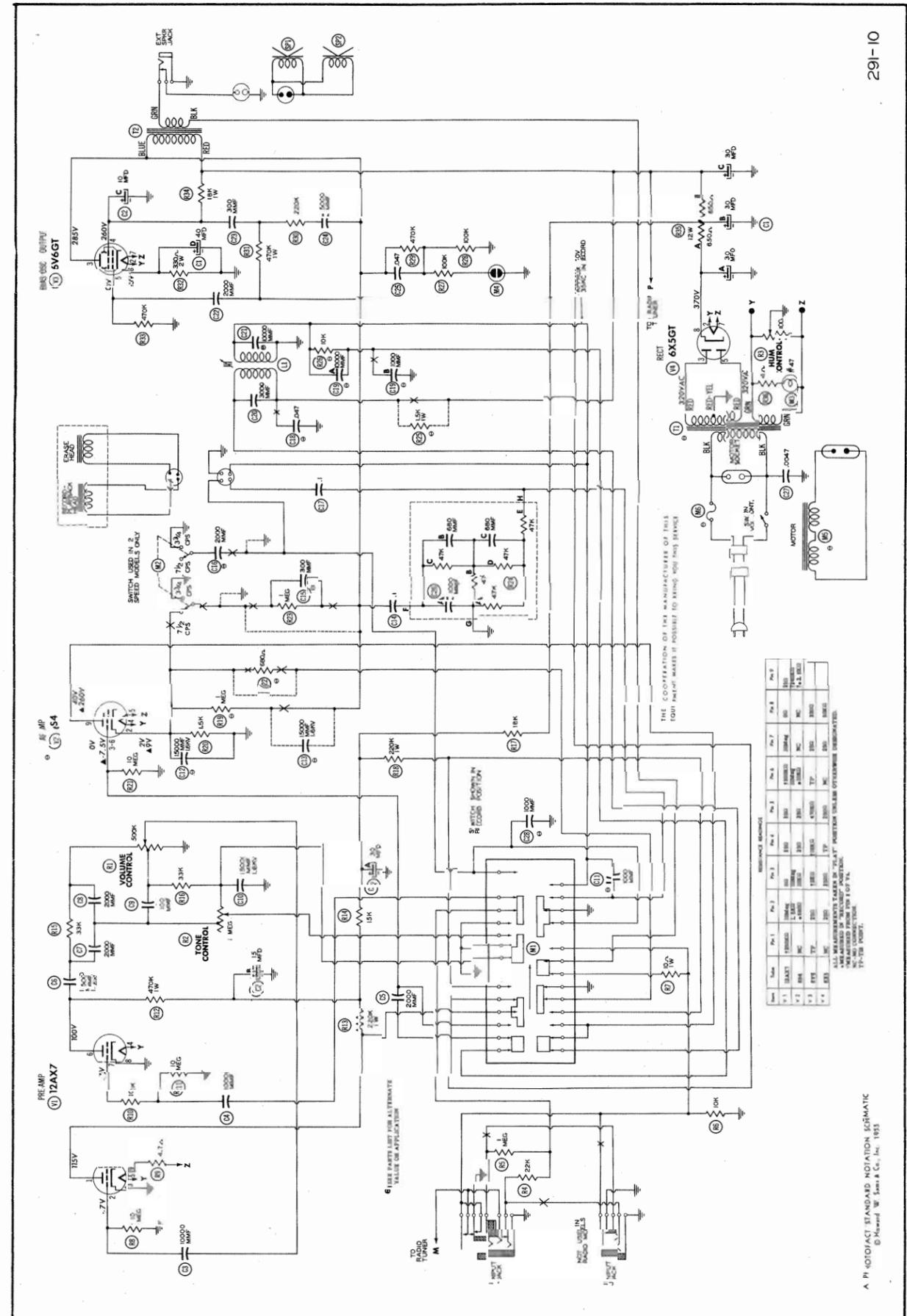
2. After the first track has been recorded, a second track of material may be recorded on the same tape, without rewinding. Remove the full reel from the right spindle, turn it over and place on the left spindle.

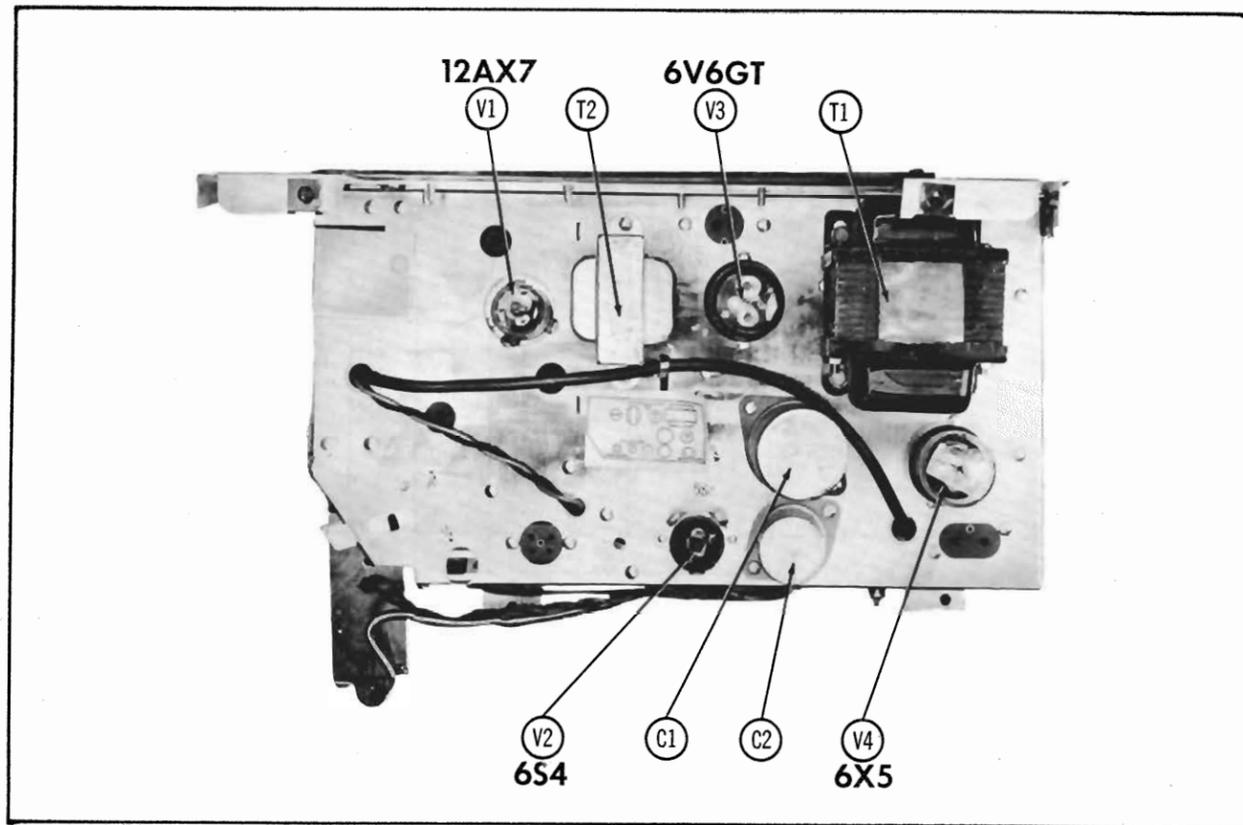
3. Thread the tape and proceed with the recording as previously described.

4. After the second track has been recorded, the first track is ready to be played without rewinding, by changing reels as described under No. 2 above.

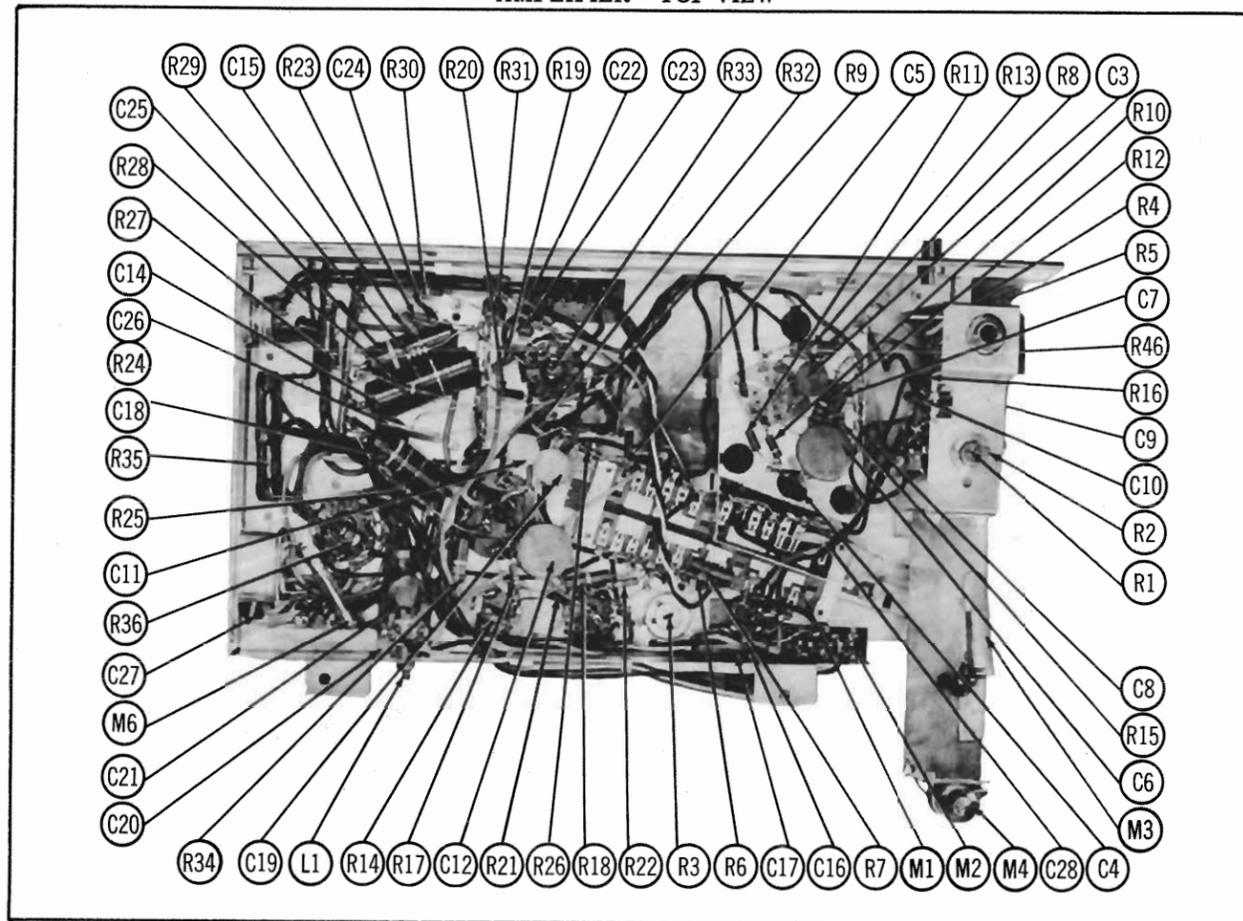
Splicing And Editing-

NOTE: Since it is impossible to edit and splice one track without affecting the other, recordings





AMPLIFIER - TOP VIEW



AMPLIFIER - BOTTOM VIEW

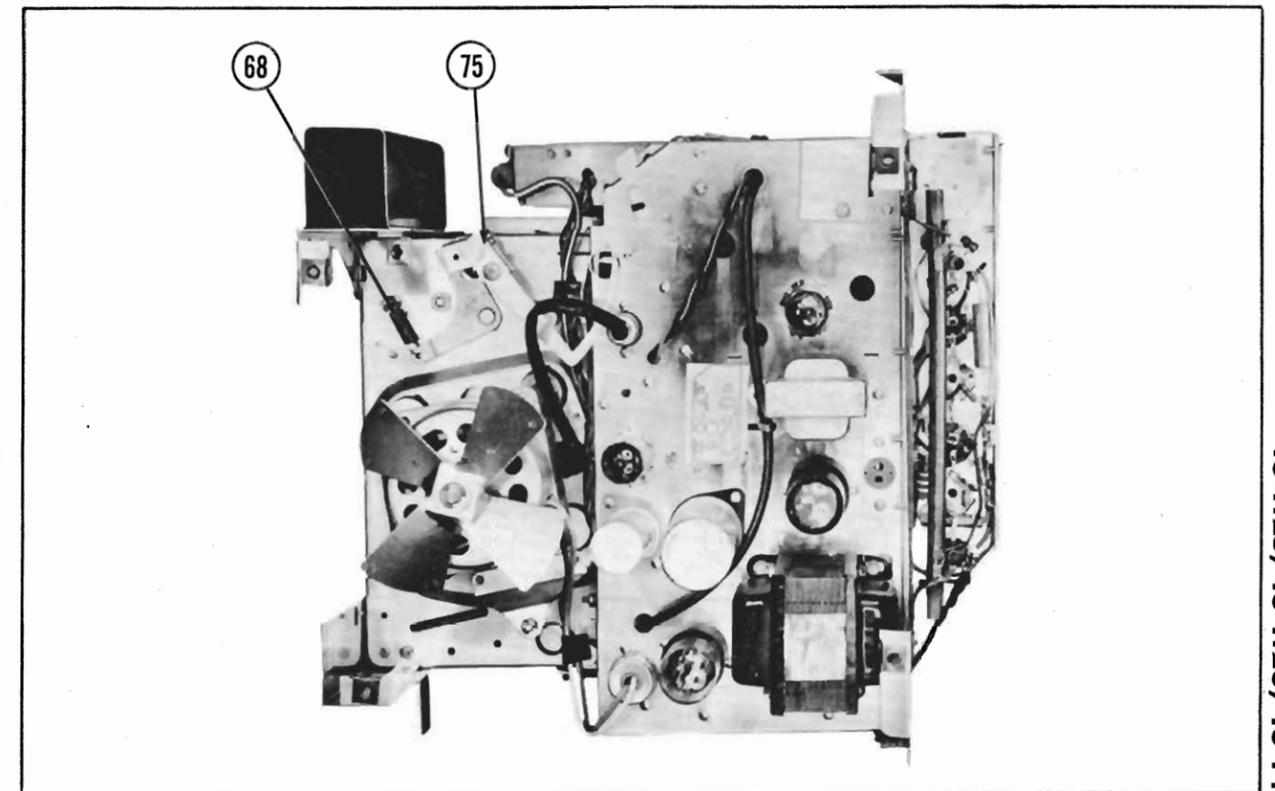


Figure 5

which are to be edited should be limited to one track only.

1. The tape may be edited by cutting out unwanted portions, or by joining selections into another sequence. Announcements may be inserted between selections, etc. Unused sections of tape can be spliced together for re-use.

(a) Cut tape at 60° angle with an overlap so ends will line up. (Cutting tape at an angle will eliminate detection of splice on recording.)

(b) Align both ends of tape, with glossy side up.

(c) Cover aligned ends with splicing tape, evenly and securely.

(d) Trim off excess splicing tape. (Cut into the recording tape very slightly.) This eliminates possibility of a sticky splice.

To Rewind Tape-

1. The tape may be rewound at any time by moving the high speed lever (47) to the left.

2. By moving the high speed lever back and forth the tape can be inched along to the number previously noted on the Index Counter.

3. After reaching the desired portion of the tape, move the high speed lever (47) to the middle or neutral position to stop all movement of the tape.

Fast Forward-

1. Any portion of a recording may be skipped, or any recording may be located in a few seconds by mov-

ing the high speed knob to the right. A few seconds of "Fast Forward" is equivalent to several minutes of playing time.

2. By moving high speed knob back and forth the tape can be inched along to an exact point.

3. After reaching the desired portion of the tape move the high speed knob to the middle or neutral position to stop all tape movement.

NOTE: The "Fast Forward" or "Rewind" mechanism can be engaged while the recorder is in either "Play" or "Record" position and the Function Knob will automatically return to the "Stop" position.

To Play A Recording-

1. Turn the Function Knob to "Play" position and adjust Volume and Tone Controls to the desired listening level.

To Listen To Built-In Radio-

1. With plugs removed from the Input Jack and the Function Knob in "Stop", the radio is directly connected for listening. To disconnect radio, while in "Stop", any plug can be inserted into the Input Jack or the radio can be tuned off the Station.

PRELIMINARY TESTS-REPAIR PROCEDURE

TEST PROCEDURE: FAILURE TO PASS ANY OF THESE TESTS INDICATES A FAULT THAT SHOULD BE REMEDIED.

1. Remove front and rear plastic head covers by pulling up. Clean head, tape guides, and capstan with

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026, TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105, TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100

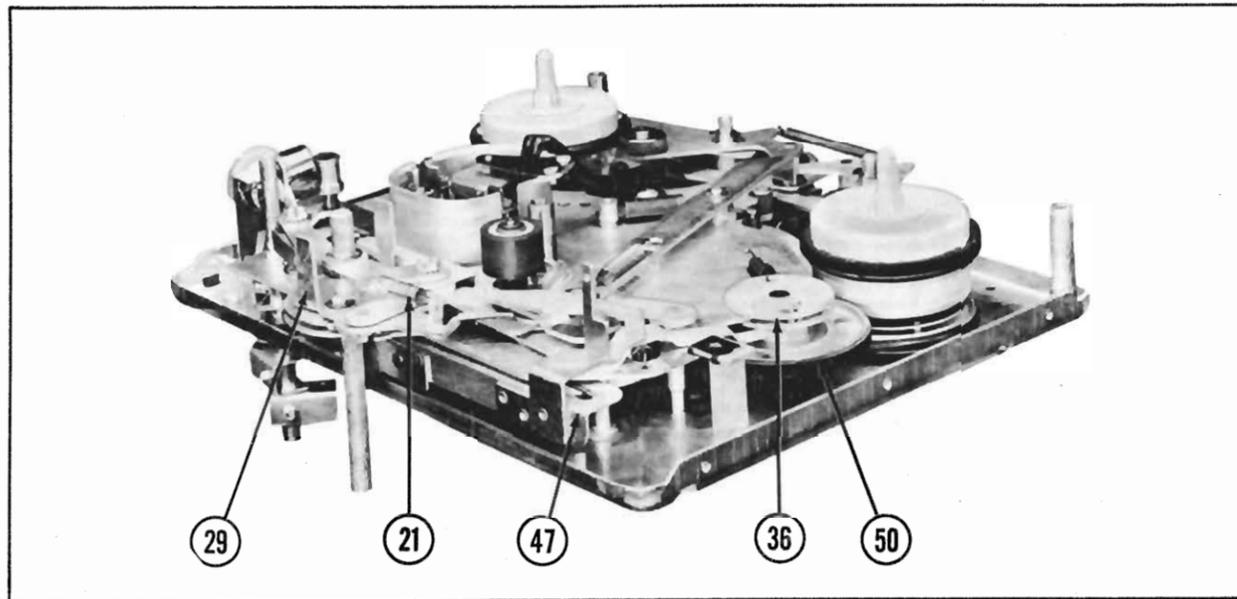


Figure 6

carbon tetrachloride or alcohol.

2. Place high speed lever in middle or neutral position. Turn on-off volume control to "On" position.

3. Thread tape on recorder. Place a reel of "A Wind" (glossy side out) tape on the left spindle. Pull off about 14" of tape. Brakes are engaged. Pull required on 7" reel should not distort the tape and should offer sufficient drag to prevent spilling of tape. Drop tape into threading slot. Attach free end of tape to take-up reel (right). Reel should rotate freely counterclockwise and drag when rotated clockwise.

4. Turn function knob to "Play". Felt pressure pads should press square against tape and cover shiny pole face area under tape. Pressure roller (20) should contact capstan and tape should move past the play-record-erase head at playing speed. Take-up reel should wind up tape as it passes capstan. The index counter should tally each revolution of the supply reel.

5. Move high-speed lever to the right or left and check to see that the function knob is automatically returned to "Stop" position; pressure roller and pressure pads should also be released. Tape should move at a greatly increased speed.

6. Return high-speed lever to neutral. Tape should stop without spilling or breaking.

7. Connect microphone and make a microphone recording. With tone control in treble, adjust volume control while speaking so that "Normal" half of Record Level Indicator flashes and "Distorted" does not. Depress Record Lock Button and turn the function knob to "Record" position. On Models T-1100, TS-1105, TS-1125, TS-1126, TR-1200, TRS-1205, TRS-1225, and TRS-1226, turn speed change knob to make recordings at both speeds.

8. Rewind tape by moving high-speed lever to the left. The function knob should automatically return to "Stop" position.

9. Play back the recording. Check the volume, tone, and overall quality. Check at both speeds on

Models T-1100, TS-1105, TS-1125, TS-1126, TR-1200, TRS-1205, TRS-1225, and TRS-1226. Amplification at full volume should be sufficient on normally recorded tape to deliver approximately 5 watts output and overload.

10. Check instant stop button by pressing while machine is in "Play" position. Tape should stop instantly. Upon releasing button tape should start instantly and not spill off reels.

11. Rewind tape; re-record over your previous recording. All trace of previous recording should be erased on the portion of tape re-recorded. Check irregularities in the playing speed. (Wow and Flutter).

DISASSEMBLY INSTRUCTIONS

Removal Of Top Plate Assembly-

Most service work on the tape drive mechanism can be accomplished by removing the top plate as follows:

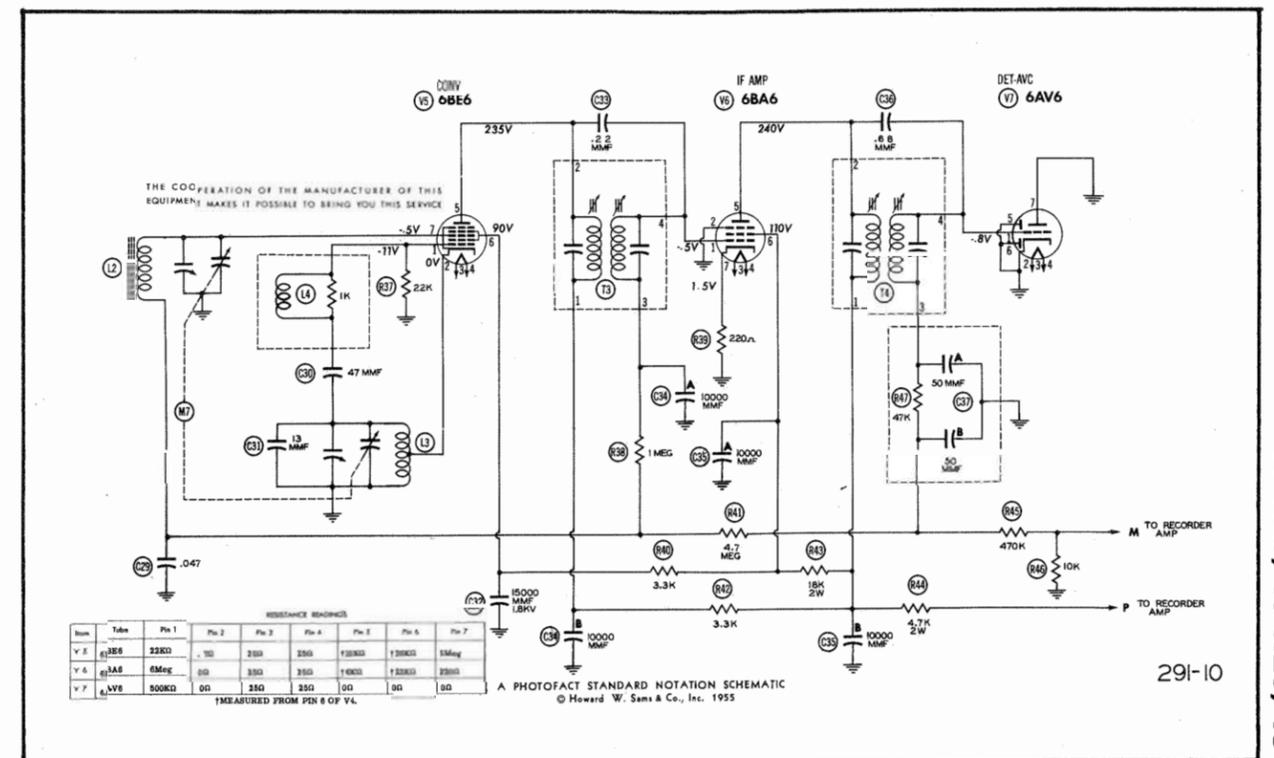
1. Pull up to remove the plastic Function Knob, Volume Control, Tone Control Knob and Rear Head Cover. Remove High Speed Knob by removing set screw at rear of knob.

2. Remove 8 top plate screws, two cross head wood screws in front of the control panel. Remove one screw located to the right of the high speed knob and 5 screws from between spindles.

3. Hold in instant stop button, tap and pry top plate assembly up starting at the rear. (On radio model tape recorders remove radio perforated top plate before attempting to remove main top plate assembly).

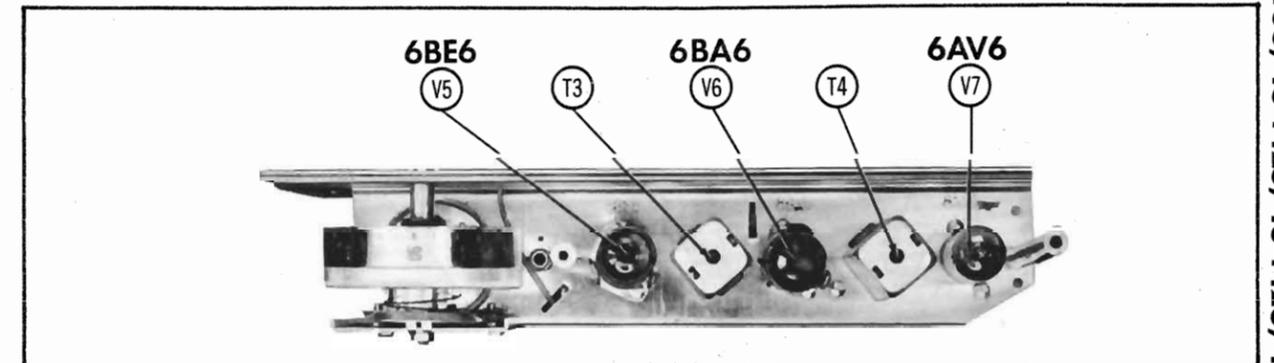
Removal Of Recorder From Case-

The recorder must be removed from the case in order to gain access to the amplifier components and to the under side of the tape transport mechanism.

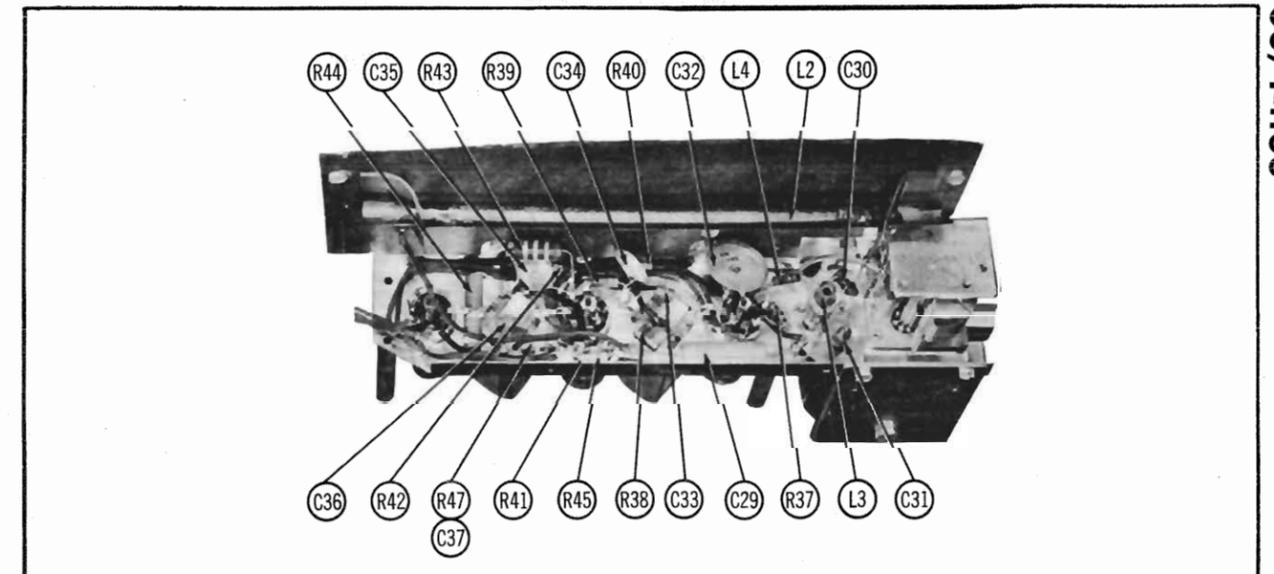


29I-10

RADIO SCHEMATIC



RADIO - TOP VIEW



RADIO - BOTTOM VIEW

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026,
 TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105,
 TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100

Tape Overruns Or Spills When Shifting To Neutral From Rewind Or Fast Forward-

1. Brake arm spring (4) disconnected or broken resulting in the brake rollers not contacting the spindle tires when the mechanism is placed in neutral.

Speed Variation Or "Wow"-

Check for binding in the following:

1. Flywheel (59) bearings: Check by holding away idler wheels and rotating the capstan by hand. A small drag is obtained from take-up drive belt (56).

2. Pressure roller (20) bearings.

3. Idler wheels (49/60).

4. Rewind spindle (1) and take-up spindle (11). Brakes should be disengaged before turning spindles.

5. Motor bearing. Turn shaft by hand.

NOTE: Oil or grease on any of the drive surfaces will cause "Wow".

Function Knob Cannot Be Turned To "Play" Position-

1. Spring (25) disconnected or broken. This spring must be connected as shown in Figure 2. If not, the Function Knob cannot be placed in the "Play" position.

Function Knob Will Not Stay In "Play" Or "Record" Position-

1. Spring (21) disconnected or broken. This spring must be connected as shown in Figure 2. If not, the

Function Knob will return to "Stop" when placed in the "Play" or "Record" position.

CLEANING

The play-record-erase head (38), pressure roller (20), and the capstan are subject to an accumulation of tape coating oxide which is worn off the tape as it passes these parts. This accumulation should be periodically removed since it may cause poor erase, faint recordings and poor playback. Wipe off the above surfaces carefully with a clean soft cloth. If oxide is caked or hard and will not come off with a dry cloth, dampen the cloth slightly with alcohol.

LUBRICATION

In normal use, the Revere requires no lubrication. The motor, flywheel shaft and spindles operate in oilite bearings. When unit is disassembled for repair, clean all bearings and lubricate with light oil. If cam and lever actions become sluggish and slow to respond, it may be due to gum or dirt in the pivots and under the levers. Clean off all old lubricant, accumulated dirt and gum with a clean cloth and cleaning solvent. Apply lubricant in thin film on working surfaces only. Do not over-lubricate.

Lubricants To Use-

Oilite bearings-----Light Machine or Spindle Oil.

Moving Parts-----Wadharns BRB#1 or Lubriplate.

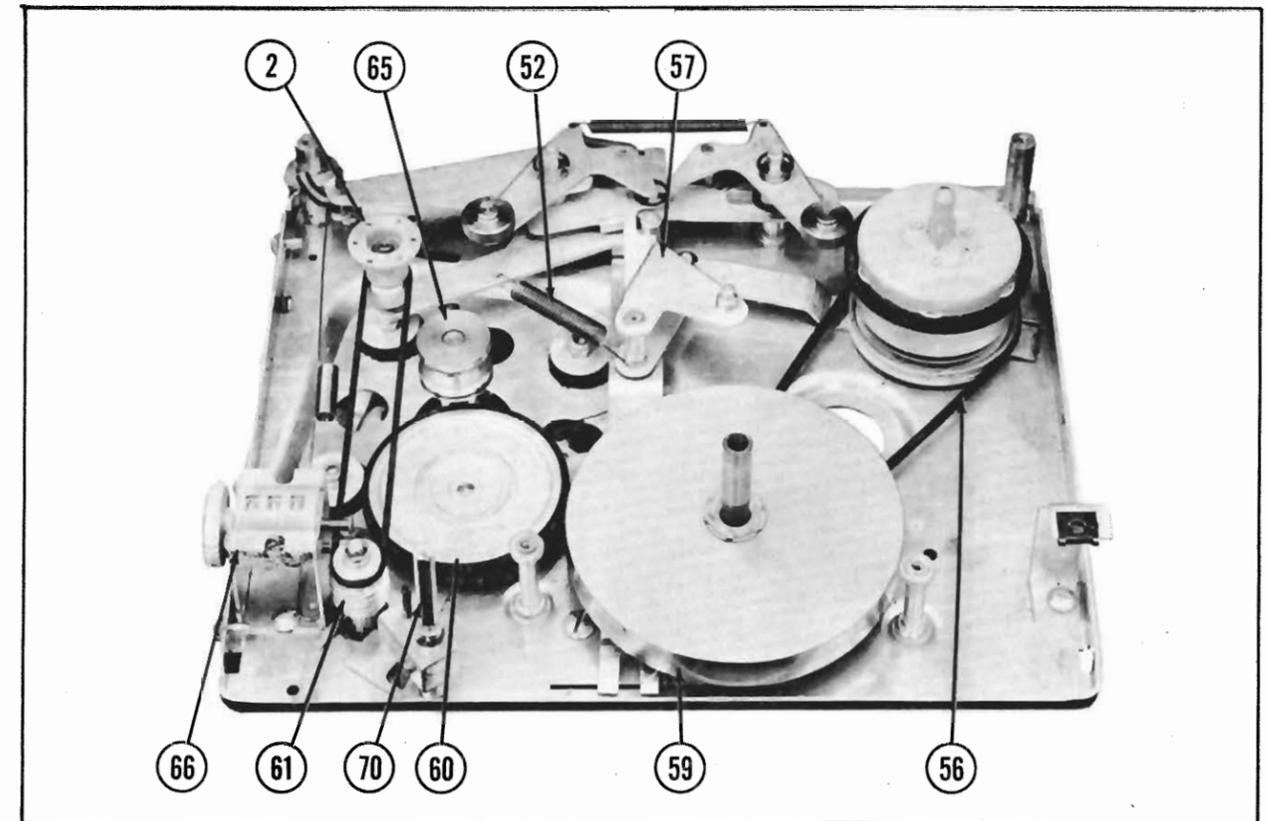


Figure 7

NOTE: To replace tubes, simply remove the bottom cover. Tubes on the radio section can be replaced by removing the top radio panel.

1. Remove large screw with cup washer located below Output Jack at rear of case.

2. Remove two small screws attaching rear name plate.

3. Remove 5 large cross head screws near the right and left sides of the bottom Tube Replacement Grille.

4. Lift the unit carefully up out of the case. The speakers remain with the case and the speaker cable is only about 1 foot long.

5. Unplug speaker cable. (On radio models particular care should be taken in lifting the unit out of the case. This is to prevent damage to the Ferrite Rod Antenna, located bottom right side.

Removal Of Amplifier From Transport Mechanism-

This is done to expose amplifier parts.

1. Disconnect head plug and motor plug. Both plugs are located at the bottom of the amplifier chassis.

2. Remove speed equalization switch actuating arm (75).

3. Remove 3 large cross slot screws on the right compartment panel (first of the 4 screws need not be removed).

4. Remove 2 nuts holding left side of amplifier to mechanism.

ADJUSTMENTS

Play-Record Head Alignment Adjustment-

It is very important that the head be lined up perfectly with the tape. If it is not, low output and loss of high frequencies will result. There is one adjustment to be made which is as follows:

1. For alignment of the play-record head a 1 mil alignment tape should be used. Thread tape on unit and set controls in "Play" position. Adjust head for maximum treble tone by turning adjustment screw (38A) See Figure 4. In lieu of alignment tape, play a previously recorded tape and adjust head for maximum treble tone. After adjustment is made, cement alignment screw (38A) to lock adjustment.

Replacing Pressure Pads-

The felt pressure pads which hold the tape in firm contact with the play-record-erase head may be glued on, if necessary, with household cement without removing pressure pad arms (40 & 41). Pads should cover shiny pole faces of head, and side of pad touching head should be free of cement.

TROUBLES

Fails To Erase-

1. Pressure pad spring (42) weak or broken resulting in the pressure pad not holding tape firmly against erase head element. Replace spring (42).

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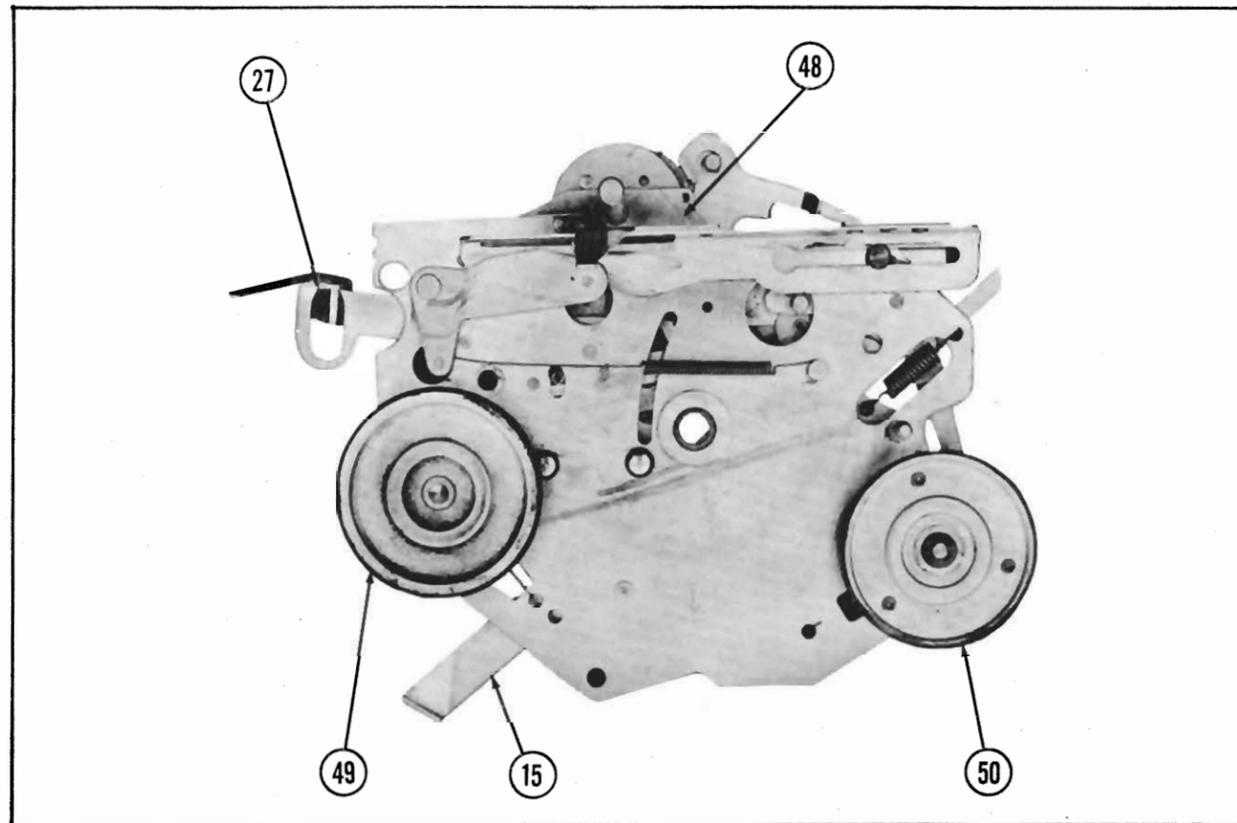


Figure 8

2. Pressure pad worn or missing. Replace pressure pad.

3. Check for dirt on erase head element. Clean with alcohol and a soft cloth.

4. Erase section of head may be open or shorted.

Fails To Record-

1. Pressure pad spring (39) weak or broken resulting in the pressure pad not holding tape firmly against the record head element. Replace spring (39).

2. Pressure pad worn or missing. Replace.

3. Check for dirt on record head element. Clean with alcohol and a soft cloth.

4. Check the recording tape to see if the dull magnetic side is facing the head. If the dull side is facing outward a recording cannot be made.

5. Record section of head may be open or shorted.

No Drive In Record Or Playback-

1. Pressure roller spring (14) disconnected or broken resulting in pressure roller (20) not being held in contact with the capstan. Replace spring.

2. Motor pulley (65) loose on motor shaft.

3. Check idler springs (34 & 62) to make sure that they hold the 3 3/4 ips. idler wheel (60) or the 7 1/2 ips. idler wheel (49) in firm contact with the motor pulley (65) and flywheel (59). When the recorder is in the 3 3/4

ips. speed position idler wheel (60) should make contact, and when in the 7 1/2 ips. position, idler wheel (49) should make contact.

4. Check for oil or grease on motor pulley (65), idler wheels (49/60) and flywheel (59). Clean with alcohol.

5. Take-up drive belt (56) stretched or not properly connected.

6. Check for oil or grease on take-up drive belt (56). Clean with alcohol.

No Drive In Fast Forward-

1. Idler tension spring (35) disconnected or broken, thereby, not holding high speed idler wheel (50) in engagement with flywheel (59) and high speed forward cup (13).

2. Motor pulley (65) loose on motor shaft.

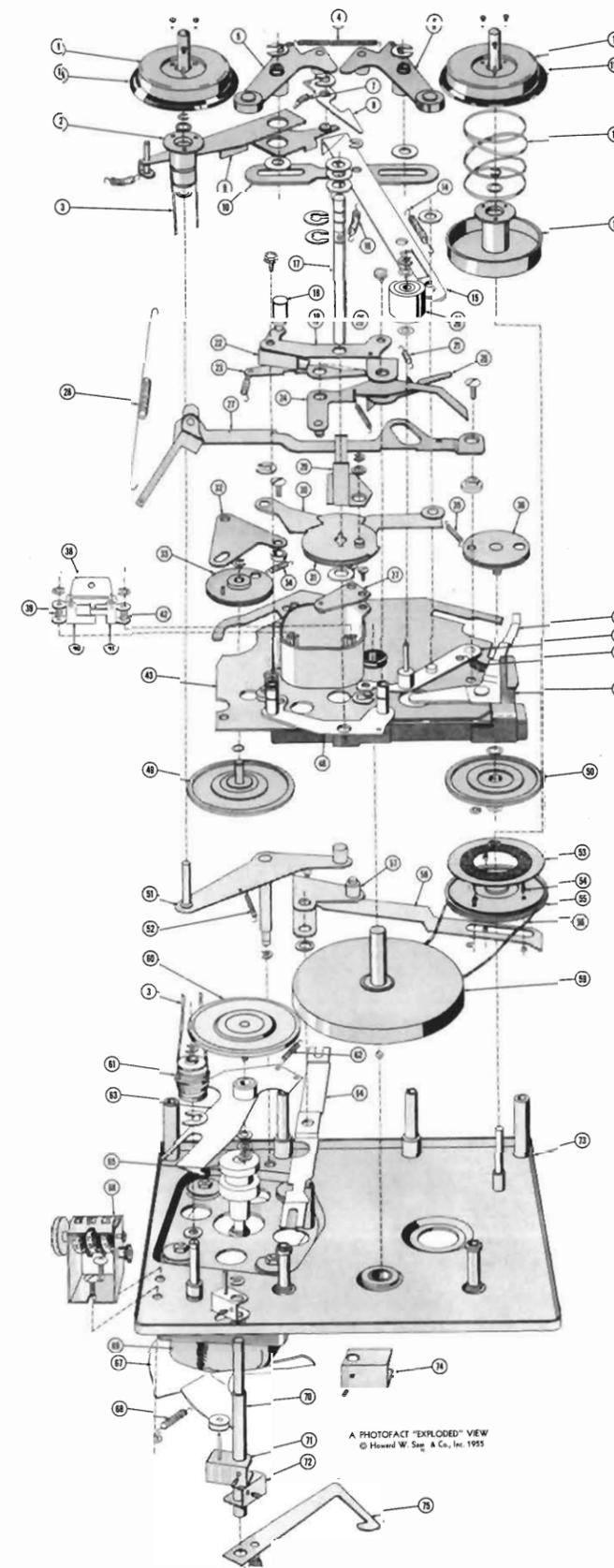
3. Check for oil or grease on motor pulley (65), motor pulleys (49/60), flywheel (59), and idler wheel (50). Clean with alcohol.

No Drive In Rewind-

1. Rewind arm spring (52) disconnected or broken, resulting in rewind cup tire (1A) not contacting motor pulley, (65).

2. Motor pulley (65) loose on motor shaft.

3. Grease or oil on rewind cup tire (1A). Clean with alcohol.



Exploded View of Tape Transport Mechanism.

REVERSE MODELS TR-1000, TR-1200, TRS-1005, TRS-1025, TRS-1026, TRS-1205, TRS-1225, TRS-1226, TS-905, TS-925, TS-926, TS-1105, TS-1125, TS-1126, TS-1405, TS-1425, TS-1426, T-900, T-1100