

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	700245	#4-40 x 1/4 Truss Hd. Phil. Screw	55	700890	"E" Ring, .187
2	700716	.116 x .281 x .020 Washer	56	800478	Brake Lining
3	800423	Reel Spindle	57	800563	Brake Spring
4	MP-172	Head Cover - Model TT-595	58	800607	Remote Control Link - TT-595
		Head Cover - Model TT-5925	59	700797	.191 x 7/16 Fiber Washer -TT-595
5	700245	#4-40-1/4 Truss Hd. Phil. Screw	60	700553	1/16 x 3/8 Cotter Pin - TT-595
6	800504	Top Plate Ass'y. -Model TT-595	61		Pause Lever -TT-595
	MS-793	Top Plate Ass'y. -Model TT-5925	62	701367	Rubber Grommets
7	700890	"E" Ring, .187	63	800572	Brake Actuating Spring
8	800478	Brake Lining	64	800728	Jack Lock Nuts
9	076190	Brake Ass'y.	65	800461	Take-up Spindle Shaft
10	800563	Brake Spring	66	700896	"E" Ring, .437
11	800599	Counter Mounting Clip	67	076196	Clutch Wheel Ass'y.
12	700245	#4-40 x 1/4 Screw	68*	*800544	*Counter Belt
13	076261	Counter Ass'y.	69	800459	Clutch Lining
14	700348	Hex Head Screws	70	800458	Clutch Plate
15	076189	Mechanism Plate Ass'y.	71	800460	Clutch Spring
16	700890	"E" Ring .187	72	800655	.484 x 3/4 x .010 Fiber Washer
17	700797	.191 x 7/16 Fiber Washer	73	800542	Clutch Pulley
18	076239	Fast Forward Idler Wheel	74	076231	Capstan & Flywheel Ass'y.
19	700797	.191 x 7/16 Fiber Washer	75	800568	Ball Bearing, .1875 Dia.
20	700890	"E" Ring, .187	76	700734	#10 Ext. Tooth Washer
21	700806	.191 x .355 x .015 Nylon Washer	77	700230	#10-32 x 3/8 Hex Head Screw
22*	800714*	* Pressure Roller	78	800434	Subplate
23	700807	.257 x .437 x .015 Nylon Washer	79	701338	Rubber Shock Mount
24	076185	Pressure Roller Lever Ass'y.	80	800435	Motor Mounting Plate
25	700797	.191 x 7/16 Fiber Washer	81	701426	Drive Motor
26	700889	"E" Ring, .250	82	701587	Fan
27	700798	.265 x 1/2 x .030 Fiber Washer	83	800548	Fast Forward Idler Spring
28	K-361	Volume, Tone, & Channel Selector	84	076260	Forward Idler - Lever Ass'y.
	K-460	Knobs -TT-595	85	800545	Take-up Idler Spring
		Volume Control Knob, Inside -	86	076192	Take-up Idler Lever Ass'y.
		TT-5925	87	076204	Take-up Idler Wheel
	K-462	Volume Control Knob, Outside -	88	076198	Speed-Change Link Ass'y.
		TT-5925	89	800587	Speed Change Spring
	K-415	Channel Selector Knob -TT-5925	90	700890	"E" Ring, .187
	K-458	Tone Control Knob - TT-5925	91	700797	Fiber Washer
29	076180	Rewind Drive Idler Wheel	92	076180	Speed Change Idler Wheel
30	700897	"E" Ring	93	700424	Set Screw
31	800546	Azimuth Spring	94	800576	Retractor
32	70607	Record-Play Head - TT-595	95	700894	"E" Ring, .375
	MT-5	Record-Play Head -TT5925	96	700895	"E" Ring. .312
33	70608	Erase Head - TT-595	97	076199	Speed Change Shaft
	MT-6	Erase Head - TT-5925	98	800624	Brake Lever
34	IM-289	Pressure Pad	99	700438	#6-32 x 3/16 Cone Pt. Set Screw
35	800598	Record & Play Pressure Pad Arm	100	700806	.191 x .375 x .015 Nylon Washer
36	800476	Pressure Roller Spring	101	700806	.191 x .375 x .015 Nylon Washer
37	076194	Head Mtg. Brkt. Ass'y.	102	700890	"E" Ring. .187
38	700345	Hex Head Sheet-Metal Screw	103	800520	Forward & Rewind Pulley
39	800587	Speed-Change Shaft Spring	104	700420	8-32 x 1/4 Set Screw
40	800564	Pressure Pad	105	800462	Drive Pulley
41	800532	Erase Pressure Pad Arm	106	800477	Rewind Idler Spring
42	700890	"E" Ring, .187	107	700348	#10 x 1/4 Hex Head Sheet Metal
43	076191	Rewind Idler Arm Ass'y.			Screw
44	700797	.191 x 7/16 Fiber Washer	108	076200	Forward Lever Link Ass'y.
45	076183	Second Rewind Idler Wheel	109	700712	.196 x 7/16 x .030 Washer
46	700890	"E" Ring, .187	110	700890	"E" Ring, .187
47	700797	.191 x 7/16 Fiber Washer	111	800547	Fast Forward Lever Spring
48	700889	"E" Ring, .250	112	800479	Rewind Spindle Shaft
49	700798	.265 x 1/2 x .030 Fiber Washer	113	700798	.265 x 1/2 x .030 Fiber Washer
50		Pause Button - TT-595	114	700889	"E" Ring, .250
51	K-360	Record Button -TT-595	115	700420	Set Screw
		Record Button, Brown -TT-5925	116	076184	Rewind Lever Ass'y.
52	K-359	Pushbuttons - TT-595	117	076186	Take-up Arm Ass'y.
		Pushbuttons, Brown - TT-5925	118	076288	Pushbutton Ass'y.
53	800441	Stop Button	119	076202	Rewind Lever Link Ass'y.
54	700477	Hex Nut, 9/16-27	120	076201	Pressure Roller Link Ass'y.

* Pressure Roller, WALSCO Part No. 1488

* Counter Drive Belt, WALSCO Part No. 1410-54

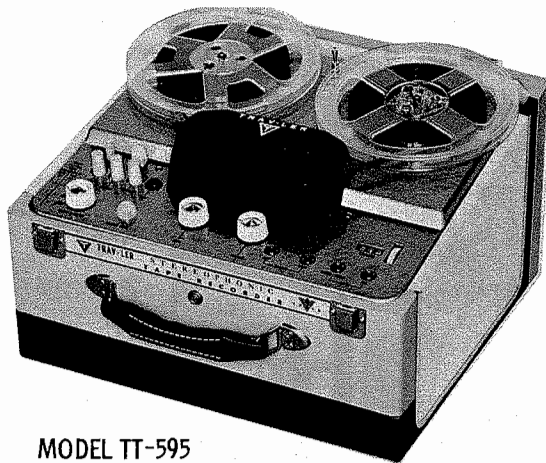
FOLDER 15
SET 601

PHOTOFACT® Folder

with CIRCUITRACE®



TRAV-LER MODELS
TT-595, TT-5925, TTS-5930



MODEL TT-595



MODEL TT-5925

GENERAL INFORMATION

The Trav-ler Models TT5925 and TT-595 are two-speed, four-track stereo tape recorders.

These recorders have pushbutton controls for each mode of operation. These modes are: Play, Record, Rewind, Fast Forward, and Stop. Model TT-595 is equipped with a Pause lever.

Four track recording is used, giving four full-length monaural recordings on a reel of tape. Any size reel up to 7 inches can be used.

A neon record level indicator is used to simplify recording. A new recording can be made over a previously recorded tape since the recording is erased before new material is recorded. Recordings can be made from a radio, television receiver, or phonograph as well as those made directly from the microphone.

The two tape speeds are: 7 1/2 ips and 3 3/4 ips. Using four tracks, the recording and playing times are as follows:

Reel Size	Dual	Track	Quarter	Track
5" (600 ft.)	3 3/4	7 1/2	3 3/4	7 1/2
	1 hr.	1/2 hr.	2 hrs.	1 hr.
7" (1200 ft.)	2 hrs.	1 hr.	4 hrs.	2 hrs.

Connect these recorders to an outlet supplying 110-120 volts AC, 60 cycles only.

Manufactured By:

Trav-ler Radio Corporation
57 W. Jackson Blvd.
Chicago 6, Illinois

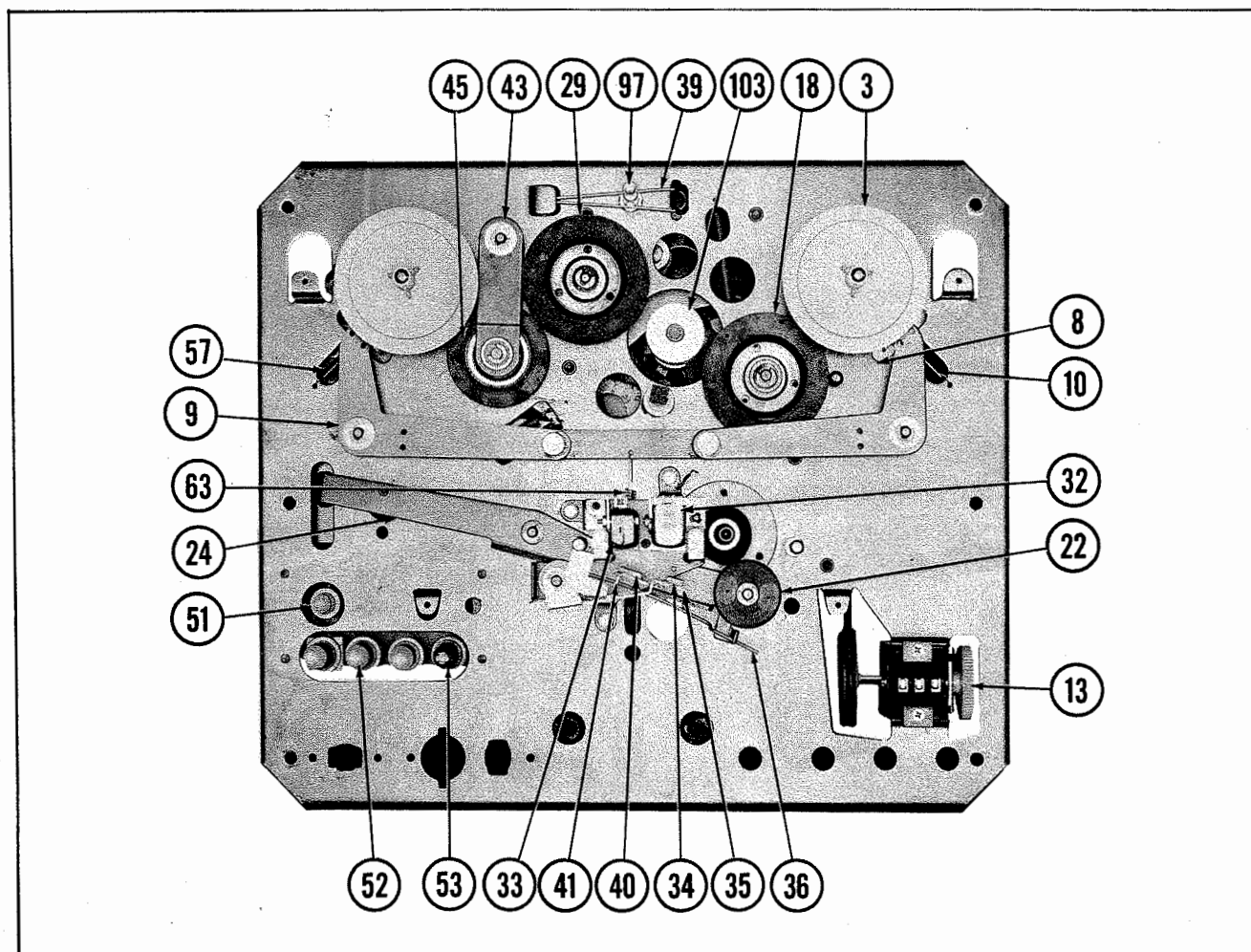
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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TRAV-LER MODELS
TT-595, TT-5925, TTS-5930

SET 601 FOLDER 15



TOP VIEW OF MECHANISM WITH TOP COVER REMOVED

FUNCTION OF CONTROLS

Stop

Depressing the stop button stops the recorder in any mode. This button should be depressed first when going from one mode to another.

Forward

This control advances the tape onto the take-up reel at a rapid speed.

Rewind

This control rewinds the tape onto the supply reel at a rapid speed.

Record

Depressing this button actuates the play-record switch in the amplifier. Any signal fed into the amplifier will be recorded on the tape.

Play

This button places the recorder in the playback mode of operation.

Pause Lever - Model TT-595

The Pause lever allows the operator to stop the tape travel for short periods of time.

Channel Selector

The Channel Selector selects the channel or channels the recording is to be made on, or played back on.

Speed Change Knob

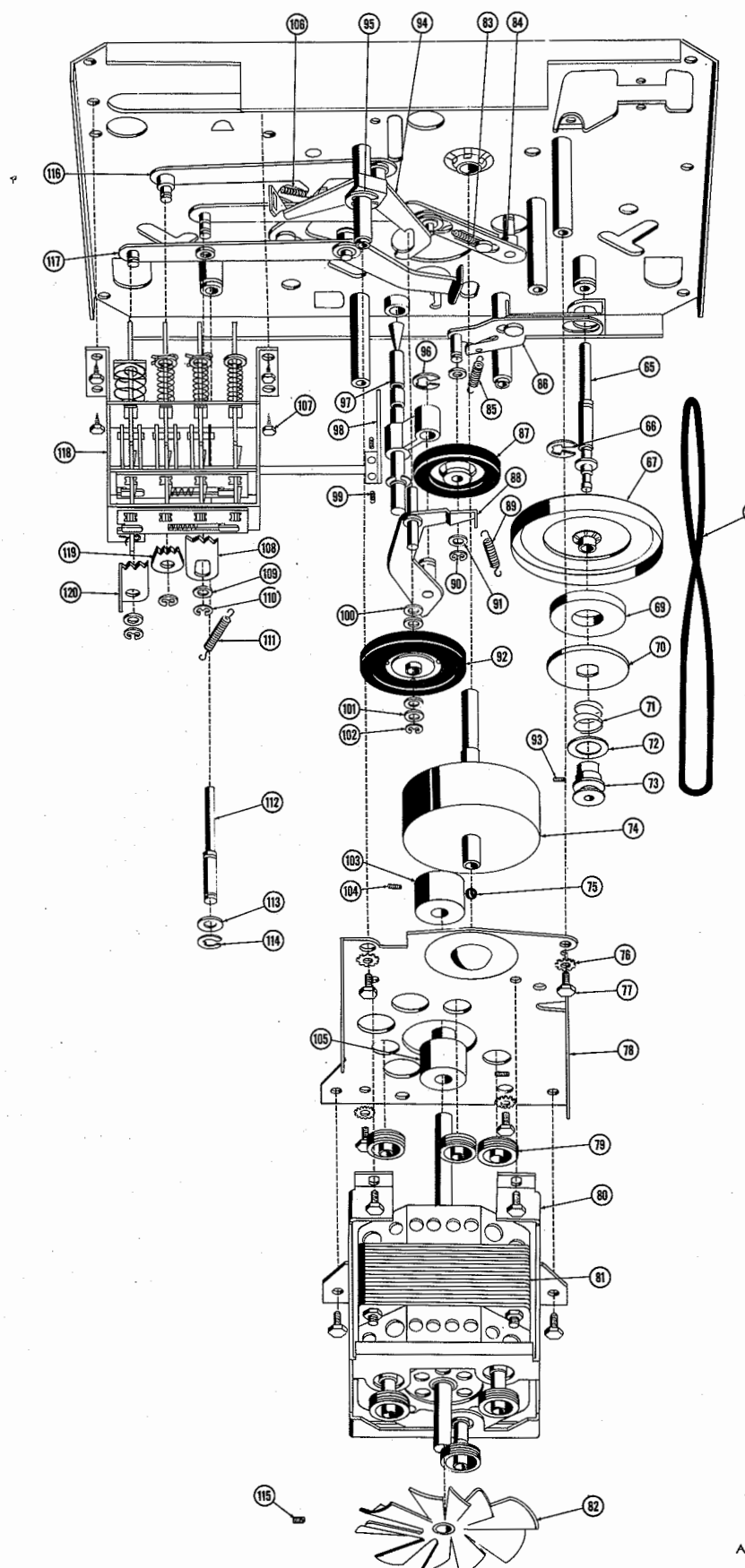
In the down position, the recorder is set for 7 1/2 ips. In the up position, 3 3/4 ips. The Stop button must be depressed before operating the Speed Change knob.

On-Off-Volume

Turning the control clockwise turns the power on to the recorder. Further rotation increases the volume level.

Tone

Turning this control clockwise will increase the high frequencies and decrease the low frequencies.



EXPLODED VIEW OF PARTS BELOW PLATE ASSEMBLY

A PHOTOFACT "EXPLODED" VIEW
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OPERATING INSTRUCTIONS

Threading the Tape

1. Place a reel of tape on the supply spindle (left).
2. Place an empty reel on the take-up spindle (right).
3. Unwind two feet of tape from the supply reel, hold a section taut and insert it in the tape slot.
4. Insert the free end into one of the slots in the take-up reel and turn the reel a few turns to secure the tape to the reel and to take up all slack between reels.

Speed Change

To play or record at 7 1/2 ips, depress the Speed Change knob. To play or record at 3 3/4 ips, raise the Speed Change knob.

CAUTION: The Stop button must be depressed before changing speeds.

Channel Selector

This control selects the channel or channels the recording is to be played on. The channels for side one of a reel are 1-4; and for side two, they are 3-2.

Recording Monaurally – Quarter Track

1. Thread the tape, see "Threading the Tape".
2. Set the Speed Change to the desired speed.
3. Set the Channel Selector to the 1-4 position.
4. Plug the microphone into the microphone input jack.
5. Turn the recorder on by rotating the On-Off-Volume control knob clockwise.
6. Depress the Record button, talk into the microphone and adjust the volume control until the Record Indicator flashes on the loudest passage.
7. Depress the Record button and at the same time depress the Play button to lock the Record button down.
8. After track one is recorded, depress the Stop button.
9. Remove the full and empty reels, turn them over, place the full reel on the supply spindle, and the empty reel on the take-up spindle.
10. Rethread the tape.
11. Place the Channel Selector in the 3-2 position.
12. Proceed with the recording.
13. After track two is recorded, reverse the reels, rethread the tape, and proceed with the recording.
14. After track three is recorded, reverse the reels, place the Channel Selector in the 1-4 position,

rethread the tape, and proceed with the recording.

Playing Monaural Recordings – Quarter Track

1. Thread the tape.
2. Set the Speed Change to the speed the tape was recorded.
3. Set the Channel Selector in the 1-4 position.
4. Turn the recorder on by rotating the On-Off-Volume control clockwise.
5. Depress the Play button.
6. Adjust the Volume and Tone controls to the desired listening level.
7. When all the tape is wound onto the take-up reel, depress the Stop button, reverse the reels, set the Channel Selector in the 3-2 position and depress the Play button.
8. After the second track is played through, depress the Stop button, reverse the reels, leave the Channel Selector in the 3-2 position and depress the Play button.
9. After the third track is played through, depress the Stop button, reverse the reels, set the Channel Selector in the 1-4 position and depress the Play button.

Stereo Playback – Quarter Track

1. Thread the tape.
2. Set the Channel Selector to Stereo.
3. With side one of the reels up, tracks 1 and 3 will be played back.
4. After the tape is wound onto the take-up reel, reverse the reels and depress the Play button. Tracks 4 and 2 will be played back with side two of the reels up.

Stereo Playback – Dual Track

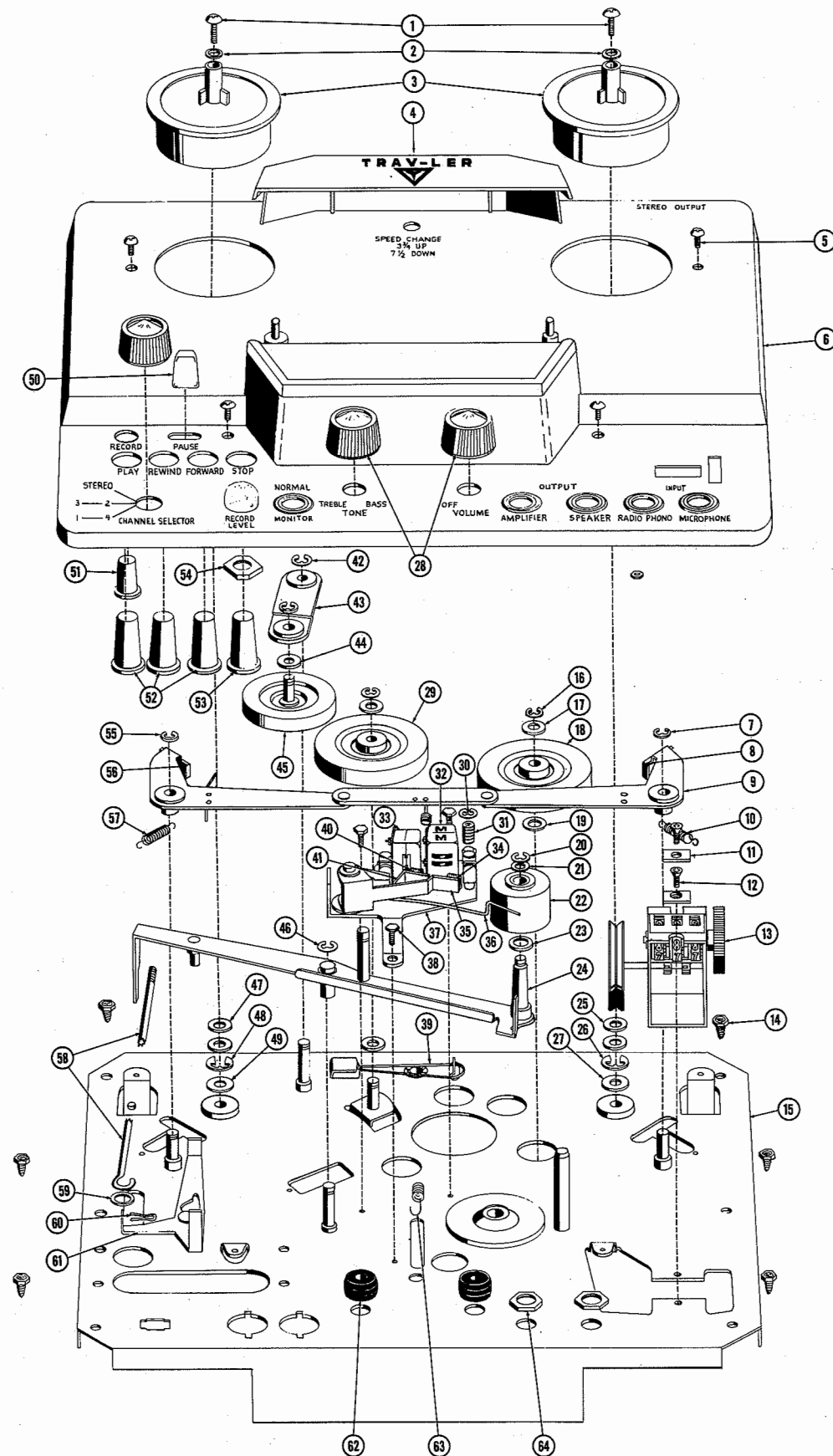
1. Thread the tape.
2. Set the channel selector to Stereo.
3. Depress the Play button and adjust the Volume and Tone controls so they are equal.

Fast Forward or Reverse

When a certain portion of the tape is to be played over again, it is not necessary to rewind the entire tape. The tape will advance or rewind at a rapid speed to the desired place by depressing the Forward Rewind button.

Tape Timer

If you wish to play back a certain recording, note the reading on the timer scale when the recording



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EXPLODED VIEW OF PARTS ABOVE PLATE ASSEMBLY

is being made or heard. Rewind or advance the tape to the number on the scale and then depress the Stop button. Depress the Play button and the desired recording will be played back.

When starting a new reel of tape, reset the timer pointer to "O" by rotating the reset knob. By starting at "O" on all tapes, the number location can be catalogued for each recording on any reel.

Erasing Recorded Material

Set the channel selector as outlined in Recording Monaurally—Quarter Track.

The erase head is energized when the Record button is depressed, erasing any previous recording before a new one is made. Tapes may be erased without putting new material on the tapes by depress-

ing the Record button and turning the Volume control to its minimum position.

To Edit and Splice Tape

NOTE: Since it is impossible to edit and splice one track without affecting the others, recordings which are to be edited should be limited to one track only.

- 1. 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 can be spliced together for re-use.
- 2. For best results, cut the tape at a slight diagonal, join ends together with splicing tape on the glossy side and trim off any excessive width.

DISASSEMBLY

Model TT-5925
Removing the Recorder from the Case —

- 1. Remove the four screws holding the top plate (6) and remove the top plate.
- 2. Remove the screws holding the top panels, one on each side, and lift the panels off.
- 3. Unsolder the speaker leads and preamplifier leads.
- 4. Unplug the preamplifier.
- 5. Turn the recorder on its side and remove the four screws on the bottom and lift the bottom grill off.
- 6. Lift the recorder from the cabinet.
- 7. Reverse the foregoing procedure to reassemble.

Model TT-595
Removing the Recorder from the Case —

- 1. Remove the four screws holding the top plate (6) and remove the top plate.
- 2. Remove one screw in the front and middle of the case.

- 3. Remove four screws from the bottom of the case holding the bottom grill and lift the grill off.
- 4. Carefully lift the recorder from the case.
- 5. Reverse the foregoing procedure to reassemble.

To Remove the Amplifier from the Transport Mechanism

- 1. Remove all input and output sockets.
- 2. Disconnect the erase and play-record heads.
- 3. Disconnect the motor leads.
- 4. Remove the plug-in leads from the printed board.
- 5. Remove six screws holding the printed board to the metal frame.
- 6. Remove the switch actuating link.
- 7. Carefully lift the printed board away from the metal frame.
- 8. Reverse the foregoing procedure to reassemble.

ADJUSTMENTS

Improper Tracking of Tape Reels

The feed and take-up reel spindles are identical. They are mounted on a flanged shaft, and held in place by Phillips head screws and flat washers. If the reel spindles wear, to where the tape scrapes on the reels, shim washers can be added between the reel and flange shaft until the reels are properly aligned. Always depress the play button whenever replacing the spindle, in order to prevent damaging the cork brake lining.

Pressure Roller

Connect an inch-ounce scale to the end of pressure roller lever assembly (24). Pull the pressure

roller free from the capstan. If the reading is less than 16 inch-ounces, bend pressure roller spring (36) to increase the pressure.

Take-up Tension

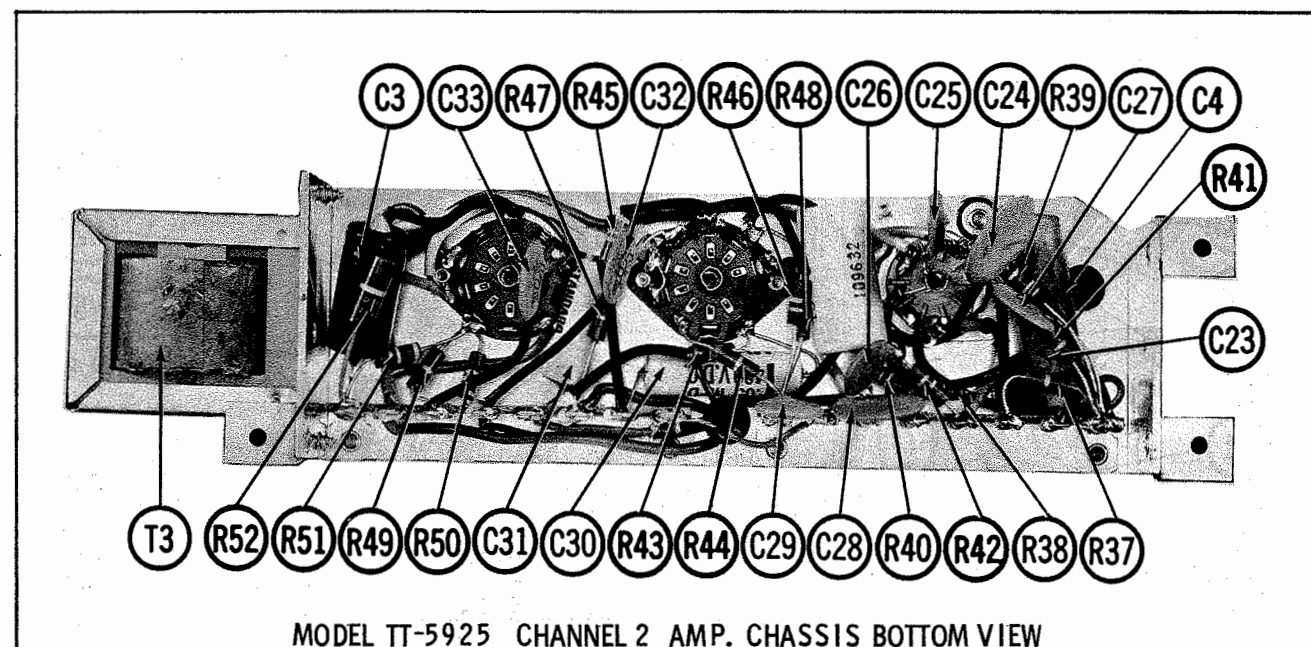
Place an empty 7-inch reel on the take-up spindle. Attach a short loop of string to the outside reel edge. Connect a gram scale (with a minimum reading of 60 grams) to the string. Hold the scale parallel to the recorder and at right angles to the take-up spindle. Depress the Play button and note the reading. If it is above or below 60 grams, remove the mechanism from the case and disassemble as described under "Disassembly".

TROUBLE CHART (CON'T.)

Symptom	Cause	Remedy
Pitch of sound from prerecorded tape is low.	1. Capstan drive mechanism is slipping.	1. Remove top plate (6). Dampen a pipe cleaner with alcohol and clean all driving surfaces.
Loss of high frequencies in record and playback.	1. Pressure pads (34) and (40) loose or worn. 2. Foreign matter collected in tape-guide channel.	1. Check spring tension of pressure pad spring. If pressure pads are worn, replace. 2. Remove foreign matter with wooden or soft plastic probe. Wipe channel with pipe cleaner or cloth dampened with alcohol.
Noisy pushbutton.	1. Lack of lubrication.	1. Lubricate neoprene pads on pushbutton shafts.
Drive erratic on both speeds.	1. Position of drive pulley (105).	1. Check position of drive pulley (105) on drive motor (81). There should be .218 inch from bottom of drive pulley to top of motor shell.
Speed change shaft binding.	1. Lack of lubrication.	1. Lubricate speed change shaft.
Clicking noise in fast forward or rewind.	1. Damaged program counter.	1. Check program counter for loose springs or lack of lubrication. If necessary, lubricate gear teeth.
Thumping or scraping noise in forward or rewind position.	1. Position of forward and rewind pulley (103) incorrect.	1. If forward and rewind pulley (103) is too high on its shaft, it will scrape the underside of the top plate assembly; if too low, the allen screw opening in the pulley will strike the rubber molded wheel.
Wow or flutter.	1. Improper pressure between capstan and pressure roller (22). 2. Excessive take-up tension. 3. Counter (13) binding. 4. Dirty pressure pads (34) and (40). 5. Pressure roller (22) binding on shaft, damaged. 6. Scored capstan and fly-wheel shaft (74) or bearings. 7. Worn speed change idler wheel assembly (92). 8. Bent fan blades (82) or motor shaft.	1. See "Adjustments". 2. See "Adjustments". 3. Check for dirt or chips in gears and for scored shaft. Clean and lubricate. 4. Saturate pads with alcohol. Brush contact surfaces in direction of normal tape travel. 5. Remove pressure roller (22) and clean bearing with pipe cleaner dampened with alcohol. Clean roller stud; if scored, polish with crocus cloth. Apply a light coating of non-melting grease to the stud before reassembling. If damaged, replace. 6. If shaft is only lightly scored, polish with crocus cloth. If bearings are badly scored, replace. 7. Some dents in the driving surface can be removed by pressing the flat side of a screwdriver blade against the tire while the wheel is revolving. If tire is nicked or torn, replace. 8. Place fan (hub up) on a flat surface. The ends of all blades should contact the surface. If any blades are out of alignment, reshape. If motor shaft is bent, replace motor.

TRAV-LER MODELS
TT-595, TT-5925, TTS-5930

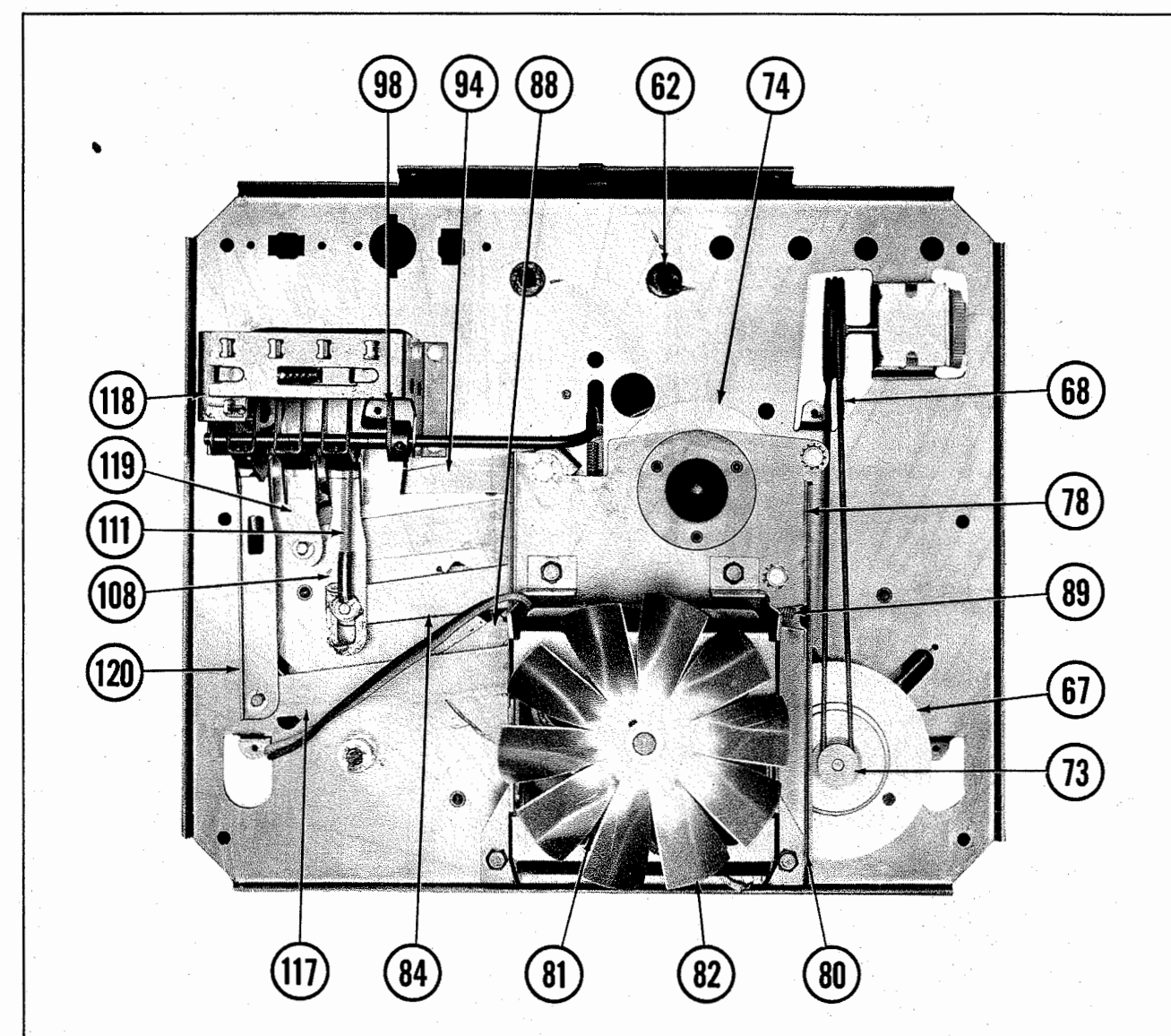
FOLDER 15



MODEL TT-5925 CHANNEL 2 AMP. CHASSIS BOTTOM VIEW

TRouble CHART

Symptom	Cause	Remedy
Take-up reel does not revolve in Play or Record position.	<ol style="list-style-type: none"> 1. Take-up idler spring (85) off or broken. 2. Oil on rim of take-up idler wheel (87). 3. Clutch slipping on clutch wheel assembly. 	<ol style="list-style-type: none"> 1. Replace take-up idler spring (85). 2. Moisten cloth in alcohol, and clean rubber rim. 3. Reposition clutch pulley (73) on shaft, and tighten allen-head screw.
Take-up reel does not revolve in fast forward position.	<ol style="list-style-type: none"> 1. Oil on rim of fast forward idler wheel (18). 2. Fast forward lever spring (111) off or broken. 3. Fast forward idler spring (83) off or broken. 	<ol style="list-style-type: none"> 1. Moisten cloth in alcohol and clean rubber rim. 2. Replace fast forward lever spring (111). 3. Replace fast forward idler spring (83).
Supply reel does not revolve in rewind position.	<ol style="list-style-type: none"> 1. Oil on second rewind idler wheel (45) or rewind drive idler wheel (29). 2. Rewind idler spring (106) off or broken. 	<ol style="list-style-type: none"> 1. Moisten cloth in alcohol and clean rubber rims of wheels (45) and (29). 2. Replace rewind idler spring (106).
Reels do not stop when Stop button is depressed.	<ol style="list-style-type: none"> 1. Brake actuating spring (63) off or broken. 2. Brake lining worn. 3. Brake lever (98) loose on shaft. 	<ol style="list-style-type: none"> 1. Replace brake actuating spring (63). 2. Replace brake lining. 3. Reposition brake lever (98) and tighten all-head screws.
Counter mechanism does not operate.	<ol style="list-style-type: none"> 1. Defective counter (13). 2. Counter belt (68) off or broken. 	<ol style="list-style-type: none"> 1. Check gear teeth in counter for damage. Replace if necessary. 2. Replace counter belt (68).
Volume or tone controls are difficult to turn.	<ol style="list-style-type: none"> 1. Printed circuit assembly not centered. 2. Lack of lubrication or "tacky" condition of rubber grommets. 	<ol style="list-style-type: none"> 1. Reposition printed circuit assembly; align shafts in rubber grommets. 2. Lubricate grommets where the control shafts pass through main mechanism plate.
Loss of high frequencies from previously recorded tape.	<ol style="list-style-type: none"> 1. Record-Play head (32) improperly adjusted. 	<ol style="list-style-type: none"> 1. See "Head Alignment".



BOTTOM VIEW OF MECHANISM

Remove the clutch pulley (73). Clutch spring (71) and clutch lining (69) can now be slipped off take-up spindle shaft (65). If the reading was over 60 grams, the felt should be saturated in a solution of one part No. 31 turbine oil and 15 parts carbon tetrachloride. After saturation, allow the felt to dry for 30 minutes before reassembling the clutch. If the reading was less than 30 grams, replace the tension spring (71) and/or belt, as required.

Record-Play Head

1. Remove head cover (4).

CLEANING

The Record-play head and erase head, the pressure pads, the pressure roller, and the capstan should be cleaned regularly with a soft cloth and alcohol. As the tape passes these parts, oxide is worn from the tape and deposited on them. This oxide will cause faint recordings and playback, poor erasure, and wow if not removed.

2. Thread an alignment tape on the recorder.

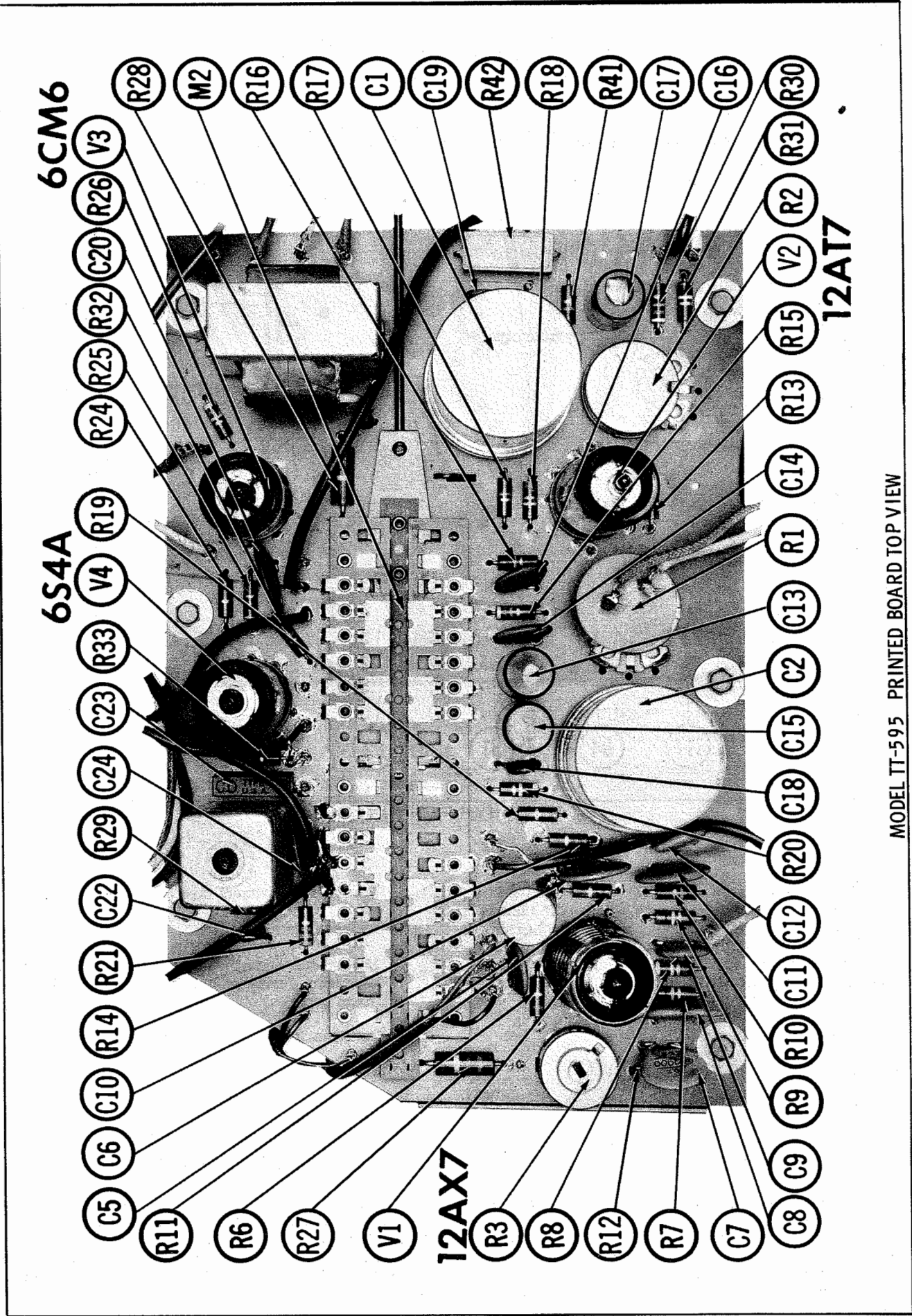
3. Depress the play button.

4. Loosen the head mounting nuts, and move the head up and down and back and forth until maximum output is obtained.

5. Hold the head in this position and tighten the nuts.

LUBRICATION

All bearings are of the oilite type. Therefore, no further lubrication is necessary. When removing levers to make repairs on the tape-transport mechanism, use a clinging-type grease to lubricate these parts where they slide in their slots or against each other.



MODEL TT-595 PRINTED BOARD TOP VIEW

TT-592.5 AMP PARTS LIST AND DESCRIPTIONS (Cont)

TRANSFORMER (POWER)

ITEM No.	RATING					REPLACEMENT DATA				NOTES
	PRI.		SEC. 1	SEC. 2	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V @ .68A		500VCT @.100A	6.3V @ 2.5A	TR-58					
	DC									
	SEC. 3		SEC. 4	SEC. 5						
	6.3V @ 1.1A									

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarsen PART No.	Triad PART No.	
	PRI.	SEC.						
T2	45002	6-82	800566					
T3	860003	6-82	AT-56					S-63X

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	TRAV-LER PART No.	QUAM PART No.	
SP1	4"x 6" PM		6-80	SPK-87	46A0726.4	* Used in TTS-5930 Optional External Speaker Case.
SP2	4"x 6" PM		6-80	SPK-87	46A0726.4	
SP3	10" PM		6-80	SPK-102*	10A31PA	
SP4	10" PM		6-80	SPK-102*	10A31PA	

MISCELLANEOUS

ITEM No.	PART NAME	TRAV-LER PART No.	NOTES
M1	Switch	SW-42	
M2	Switch	SW-43-1	Record-Playback
M3	Switch	SW-44	Function Selector

CABINETS & CABINET PARTS

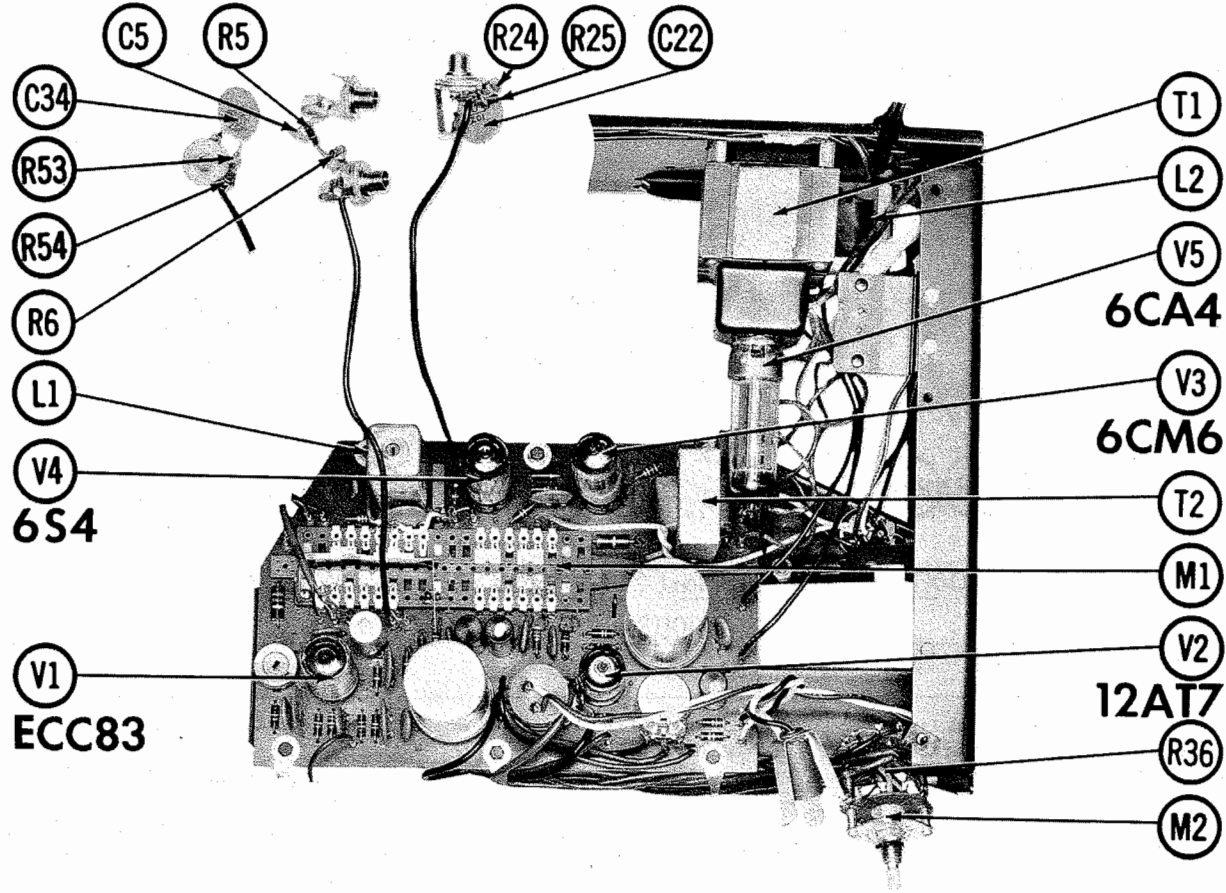
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob, Volume	K-457	Inside, Black Case
Knob, Volume	K-461	Outside, Black Case
Knob, Channel	K-381	Black Case
Knob, Volume	K-460	Inside, Brown Case
Knob, Volume	K-462	Outside, Brown Case
Knob, Channel	K-415	Brown Case
Case	CA410	
Handle	CH-127	

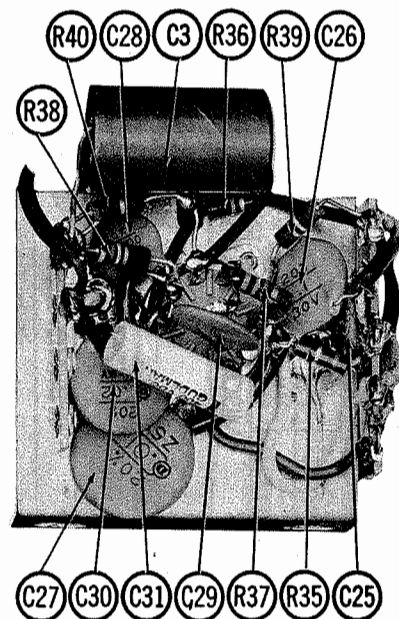
WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	17106 (Plastic) or 17126 (Rubber) - 6 Ft.
Low-Loss Shielded Lead (Interconnecting)	17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Phono Pick-up Arm Cable	8874 (Rubber) or 8895 (Plastic)
	Use BELDEN No. 8401 or 8421
	Use BELDEN No. 8430 (Two Conductor-Unshielded)
	8429 (Two Conductor-Shielded)
	8419 (Three Conductor-Shielded)

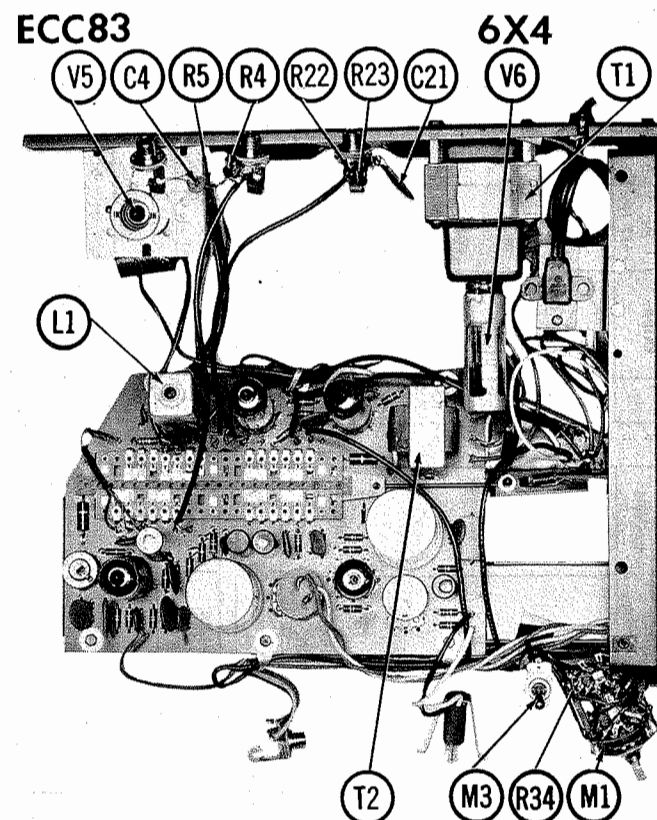
TT-5925 AMP CHASSIS—TOP VIEW



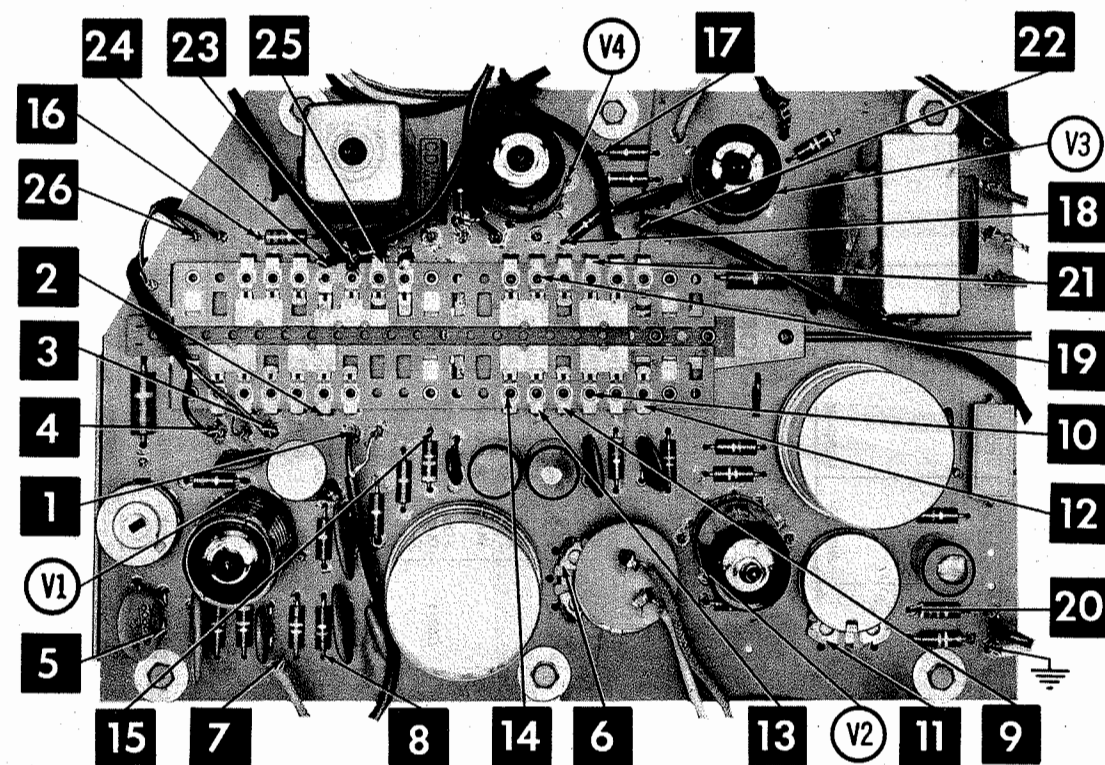
TT-595, TT-5925, TT5-5930



MODEL TT-595 STEREO PREAMP.



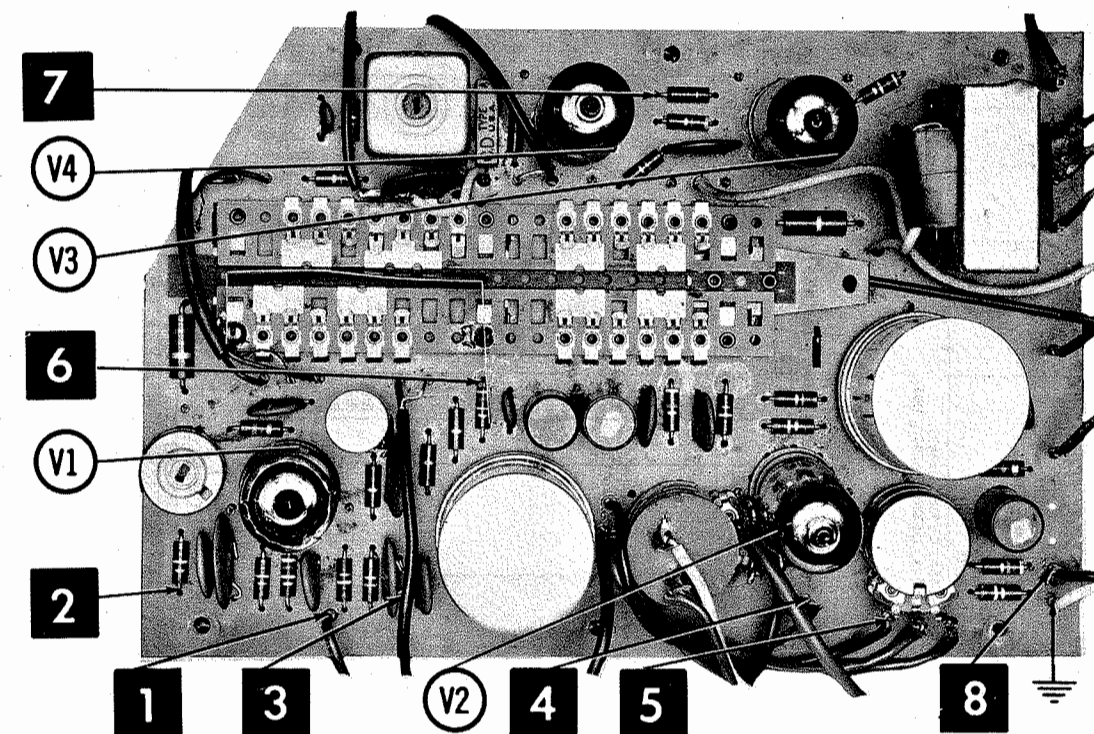
MODEL TT-595 AMP. CHASSIS TOP VIEW



A Howard W. Sams CIRCUITRACE Photo

MODEL TT-595 PRINTED BOARD

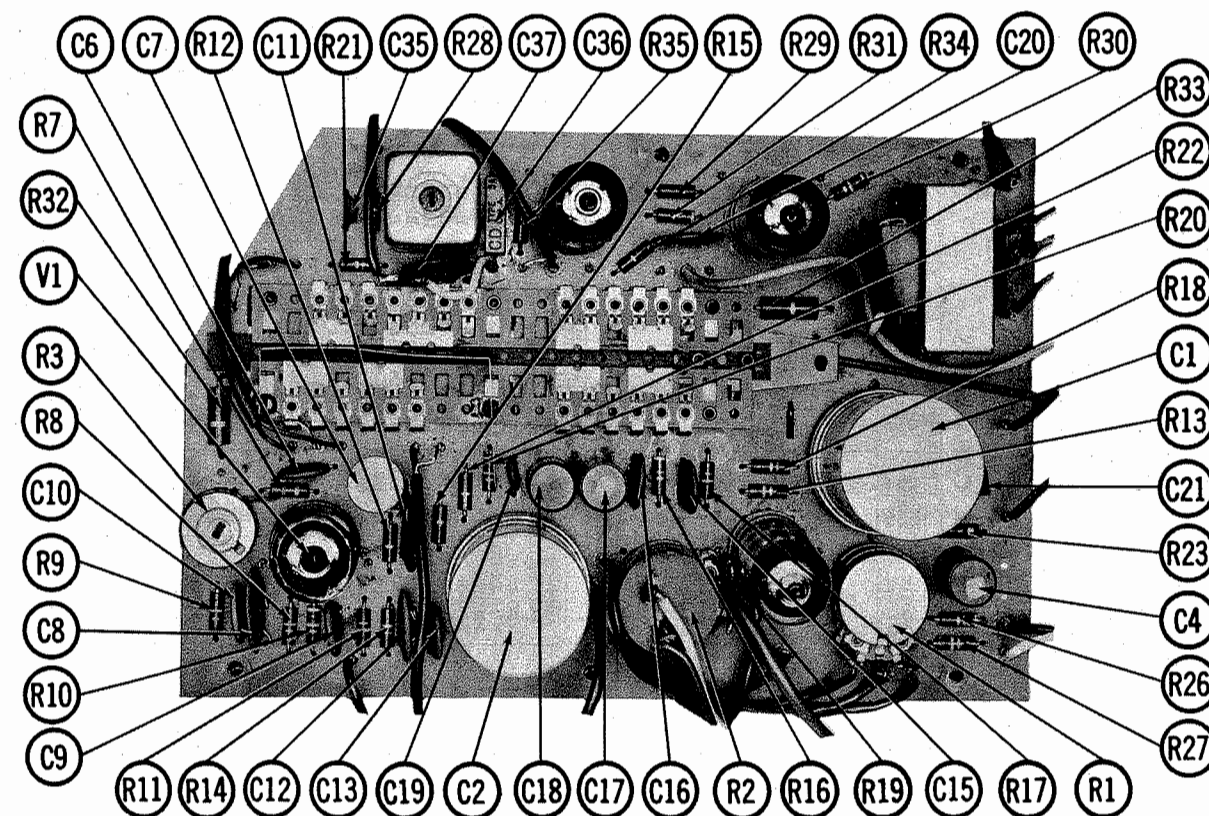
ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



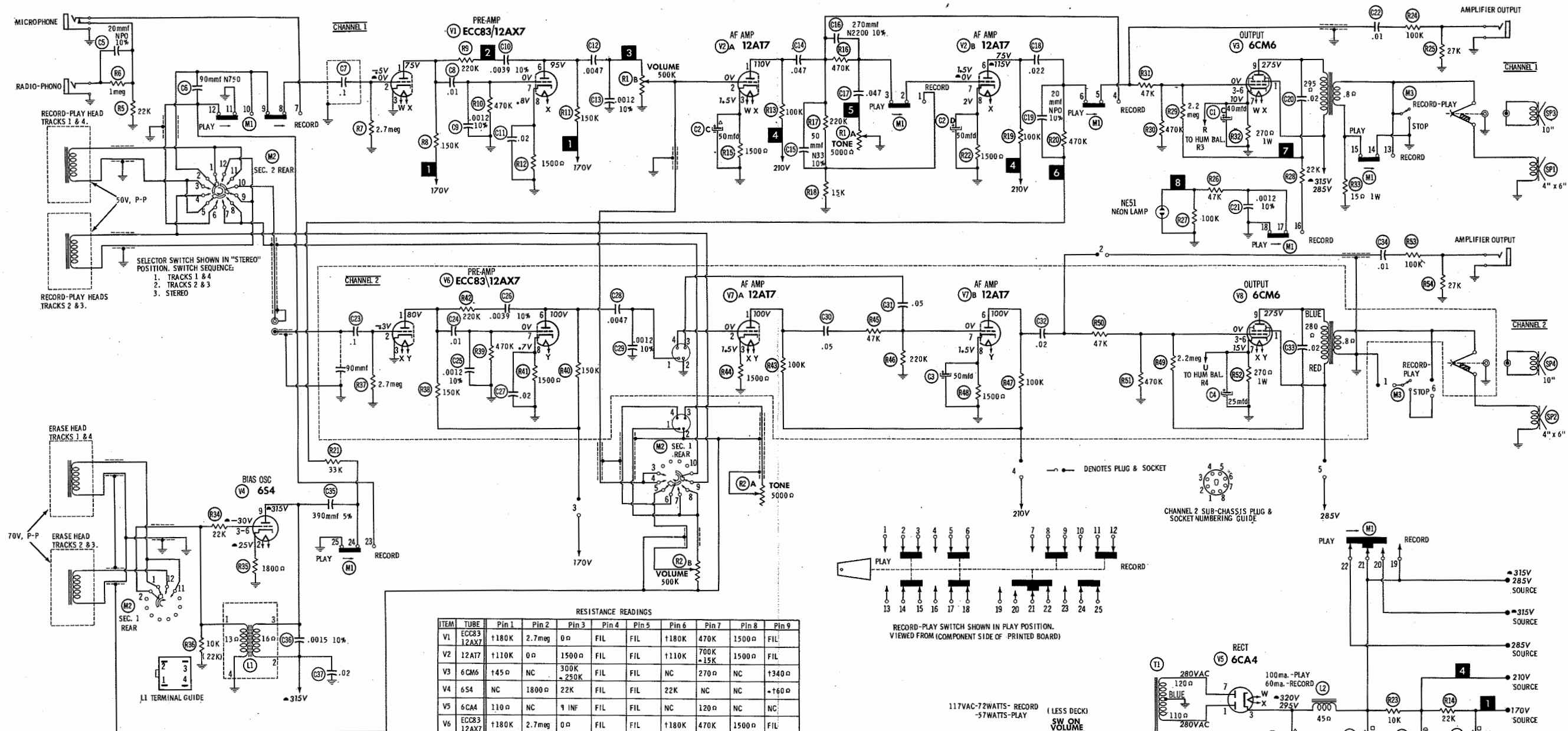
A Howard W. Sams CIRCUITRACE Photo

MODEL TT-5925 PRINTED BOARD

ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



MODEL TT-5925 PRINTED BOARD



NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

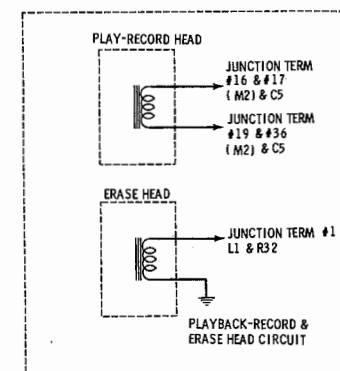
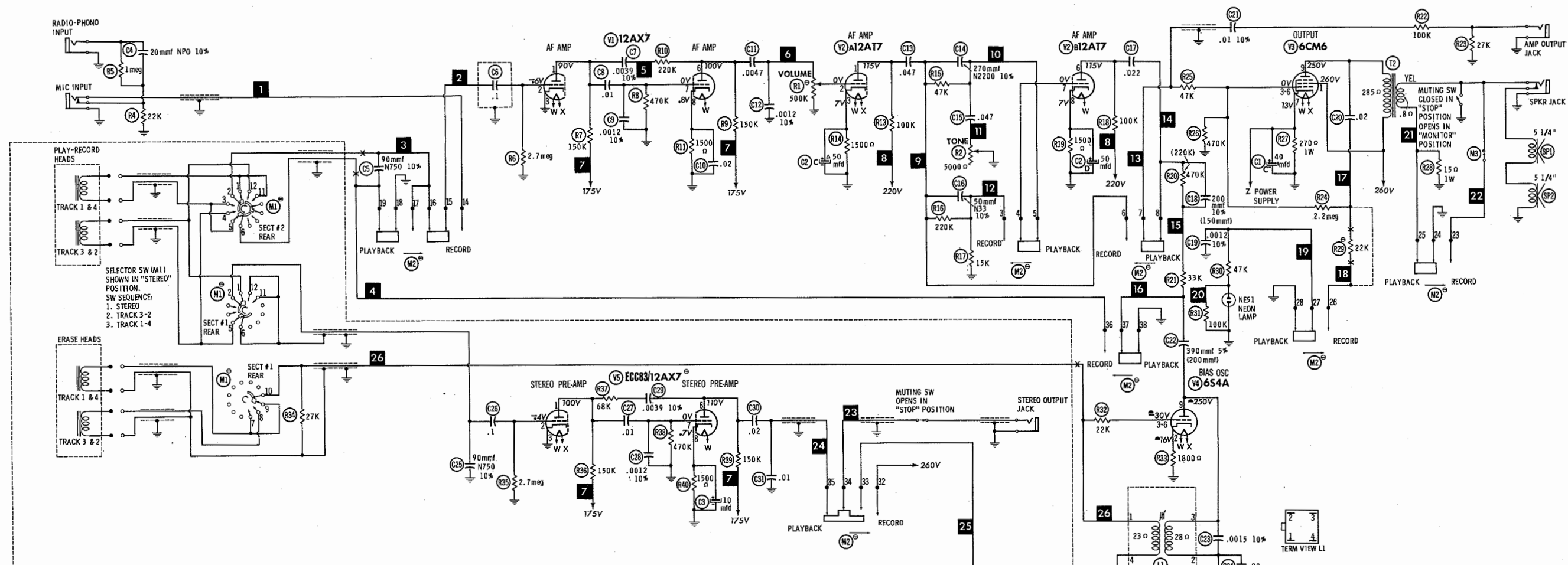
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC with CIRCUITRACE

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MODEL TT-5925

TRAV-LER
MODEL TT-5925



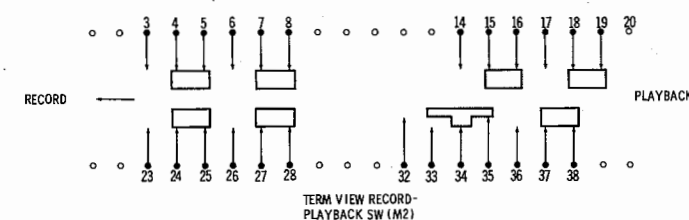
NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

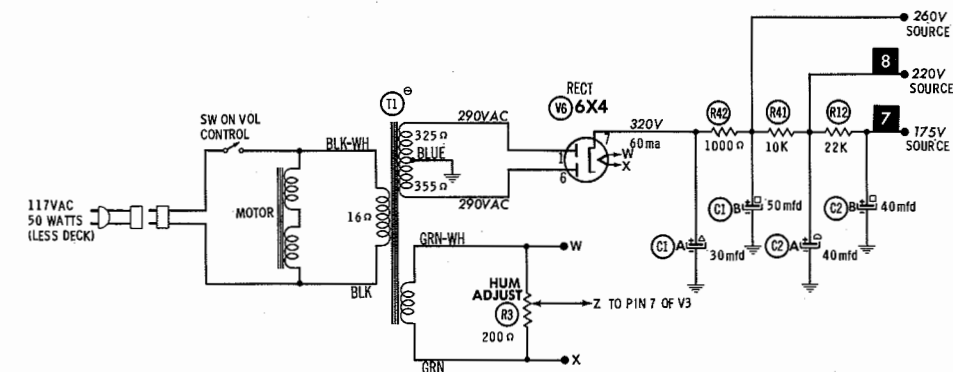
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ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	1180K	2.7meg	0	FIL	FIL	1180K	470K	1500	FIL
V2	12A7	1110K	0	1500	FIL	FIL	1110K	285K	1500	FIL
V3	6CM6	11000	NC	260K	FIL	FIL	260K	270	NC	11300
V4	654A	NC	1800	22K	FIL	FIL	NC	NC	NC	11000
V5	12AX7	1180K	2.7meg	0	FIL	FIL	1180K	470K	1500	FIL
V6	6X4	325	NC	FIL	FIL	NC	355	1		

ALL MEASUREMENTS TAKEN IN "PLAY" POSITION UNLESS OTHERWISE INDICATED
 1 MEASURED FROM PIN 7 OF V6
 2 MEASURED IN "RECORD" POSITION
 3 THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN CIRCUIT.



TRAV-LER
MODEL TT-595

MODEL TT-595