

MIDWAY MFG. CO.

PHONE: AREA CODE TO NOR 350

3750 RIVER ROAD . SCHILLER PARK, ILLINOIS 60175

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Midway's "Winner"

Midway's new table tennis game, WINNER, will be in your distributor's showroom soon. This game is being built under license and with the co-operation of Atari, Inc., of Santa Clara, California, (Syzygy Engineered), the inventor and developer of the game.

Midway has reaped the benefits of months of location testing. WINNER lends itself to the sophisticated atmosphere of all locations. This unit has extra circuitry to allow the audience to view the match play on the location's television set, if desired.

The fascinating, competitive play has caught the eye of every age group, and has made it the most exciting game of the decade.

The outside dimensions are 26 1/2" wide \times 23 7/8" deep \times 64" high.

Sincerely,

MIDWAY MFG. CO.

Larr 🗗 Befke

Director of Sales

LB/r

GAME OVER

Energized when selected time is reached.

CREDIT

Energized via coin sws. to start game via Credit Button when start Jack is in top pos.

COIN

Energized via coin sws. or Credit Button dependent on start Jack pos.

GAME TIMER P.C. 567-907

CREDIT **ONE-SHOT** UNIT P.C. 567-911

START CONTROL **JACK**

starts game via

- Credit Button
- Coin **Switches**

WINNER "19" EQUIPMENT CHART

TIMER **ADJUSTMENT** JACK

- OFF

- 5 MIN.

COIL	PER	APPLICATION		
M-33-1700 D.C.	3	Coin, Credit & Game-Over relay coils.		
MT-37	1	60 Cycle Transformer		
MT-38	1 50 Cycle Transformer			
		PRINTED CIRCUITS		
567-904	1	Game Logic		
567-907	1	Game-Over Timer		
567-911	1	Credit One-Shot		

P.C. 567-904 WINNER LOGIC UNIT 18 MONTH UNCONDITIONAL WARRANTY

POLARITY LAMP CAUTION

If Polarity Lamp is lit reverse TV. Set Line Cord in order to prevent electrical shock

AS OF CAME #668

WINNER 4-73 PACKARD BELL 19" TV

SERVICE BULLETIN

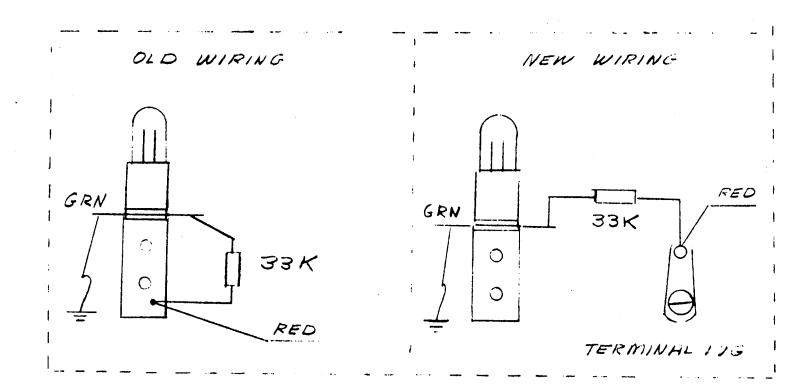
GAME: Winner 19

CONDITION:

Possible polarity lamp socket shorting causing damage to cable and logic P.C. 567-904.

Please make the following modifications in games with Serial Numbers 675 thru 2600:

- 1.) Remove 33K resistor and red wire from lamp socket bracket.
- 2.) Solder 33K resistor and red wire to new terminal lug as shown.



NEON POLARITY LITE

General Instructions for WINNER

Installation:

The power is controlled by a switch located on top of the cabinet. Plug into A.C. only, 115 volts, 60 cycles.

Equipment Panel and Logic Unit:

Located in back box area and are easily serviced by removing back door.

Score Slide Switch:

Located on Logic Unit to end game at 11 or 15 points.

Timer Jack:

Located on equipment panel. This jack is provided as an optional feature and is adjustable from 5, 6, or 7 minutes. In the "OFF" position, the game will end when designated score is reached.

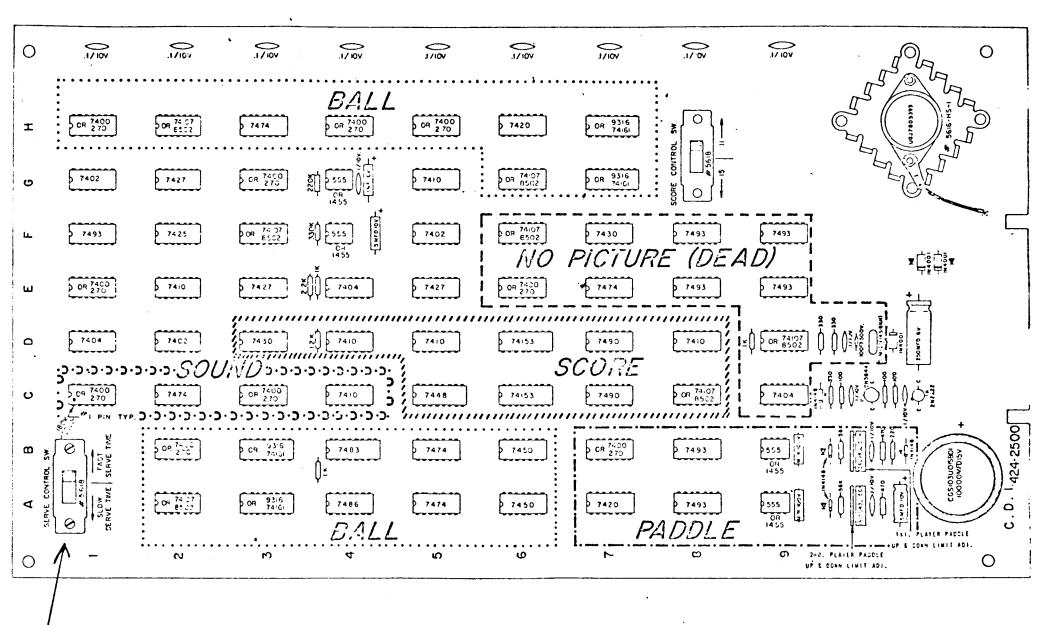
Volume Control:

Located on top of cabinet. To increase volume, rotate in a clockwise direction.

MIDWAY MFG. CO.

3750 River Road

Schiller Park, Illinois



NOT IN WINNER

TROUBLE SHOOTING - WINNER LOGIC PC567-904

Location	Chip No.	Possible Trouble
A2	74107	No Ball
A3	9316	Series of Balls - No Audio
A4	7486	Distorted Video (Picture Rolls)
A 5	7474	No Ball
A6	7450	Prevents ball from traveling downward
A7	7420	Distorted Paddles
A 8	7493	No Right Paddle
A 9	NE555	No Right Paddle
B2	7400	No Paddles - No Audio - No Score Ball Travels from top to bottom at rapid rate
В3	9316	Series of Distorted Balls - Distorted Audio
B 4	7483	Ball Serves Rapidly from bottom up
B5	7474	No Ball - No Score
В6 ·	7 450	Ball Travels from bottom up
B7	7400	Stays in Game Over
B8	7493	No Left Paddle - No Ball
В9	NE555	No Left Paddle - No Ball - No Audio
Cl	7400	No Audio
C2	7474	Audio Distortion (Also no hit Audio)
C3	7400	Distorted Display - No Audio
C4	7410	Distorted Display - No Audio
C 5	7448	Distorted Series of Displays
C6 C7 C8 C9	74153 7490 74107	Scores Incorrect No Left Display First Score Kills Game

Location	Chip No.	Possible Trouble
Dl	7404	No Ball - No Score
D2	7402	No Score Display - No Ball - Audio Distortion
D3	7430	No Display
D4	7410	Distorted Display
D5	7410	Distorted Display
D6	74153	Distorted Score
D7	7490	No Right Display
D8	7410	No Vertical Sync No Audio
D9	74107	Dead (Picture Rolls)
El	7400	Fast Serve - No Score
E2	7410	Distorted Left Display - No Right Display-No Ball
E 3	7427	Distorted Display
E4	7404	Distorted Video (Picture Rolls)
E 5	74 27	Distorted Display - First Score Kills Game
E 6	7400	Dead
E7	7474	Dead
E8	7 493	Dead
E 9	7493	Dead Except Net (Picture Rolls)
Fl	7493	Fast Serve
F2	7 425	Distorted Series of Displays
F3	74107	Distorted Audio and Net
F4	NE555	Stays in Game Over
F5 F6	7402 74107	Distorted Video (Ficture Rolls) Dead
F7	7430	Dead
F8 F9	7493 7493	Dead Dead

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Location	Chip No.	Possible Trouble
Gl	7402	No Video - Distorted Audio
G2	7427	Dead Except Display
G3	7400	Dead Except Display
G4	NE5 55	Distorted Audio
G 5	7410	Distorted Video (Ficture Rolls) Distorted Audio - No Game Over
G6	74107	No Ball
G 7	9316	No Ball
Hl	7400	Ball Moves in Vertical direction only
H2	74107	Ball Moves in Vertical direction only
Н3	7474	Distorted Paddles - No Score- No Game Over
H4	7400	No Ball
Н5	7400	Distorted Video (Picture Rolls)
н6	7420	Stay in Game Over
Н7	9316	No Ball - No Score

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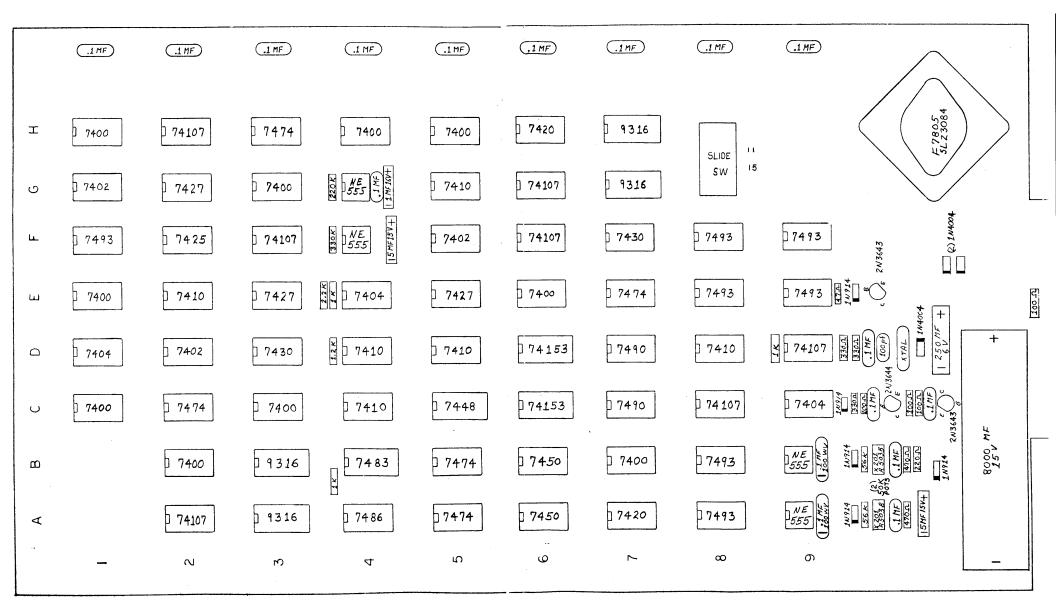
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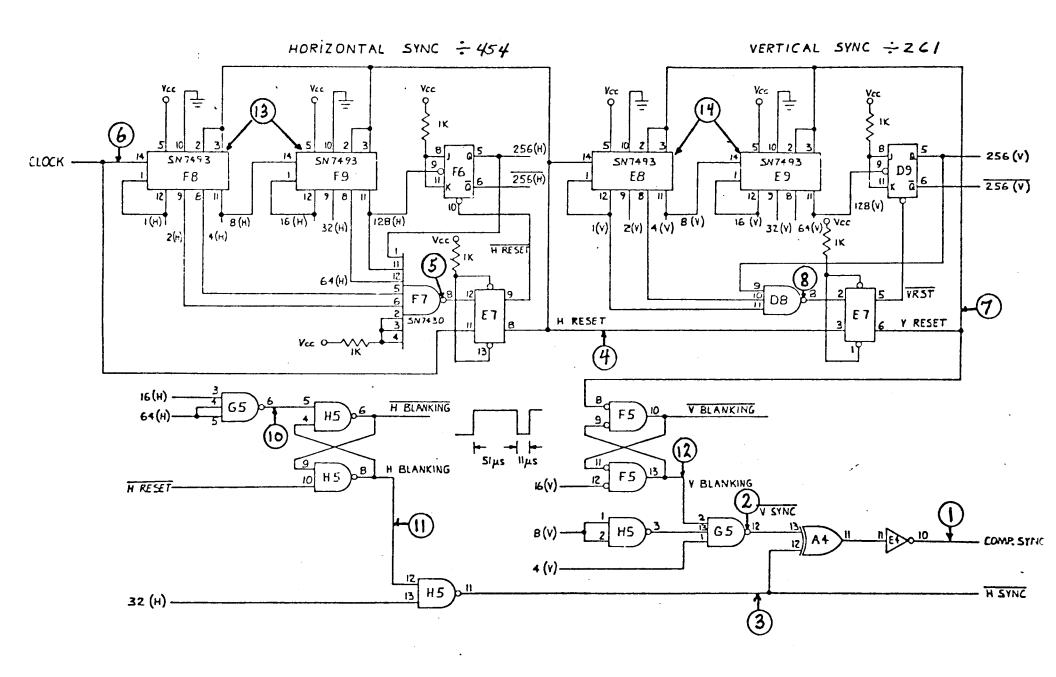
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WINNER LOGIC PC567-904

Chip Number Function	
7400	Quad. two input nand-gate.
7402	Quad. two input nor-gate.
7404	Hex. inverter.
7410	Triple nand-gate.
7425	Dual four input nor-gate with strobe.
7427	Positive nor-gate.
7430	Eight input or-gate.
7448	B.C.D. to seven segment decoder.
7450	Expandable dual two input and-or inverter gate.
7474	J-K Flip-Flop.
7483	A four-bit binary full adder.
7490	Decade counter.
74107	Dual J-K Flip-Flop
74153	Dual 4 to 1 data selector multi-plexer.
9316	Four-bit counter low PWR. (up)

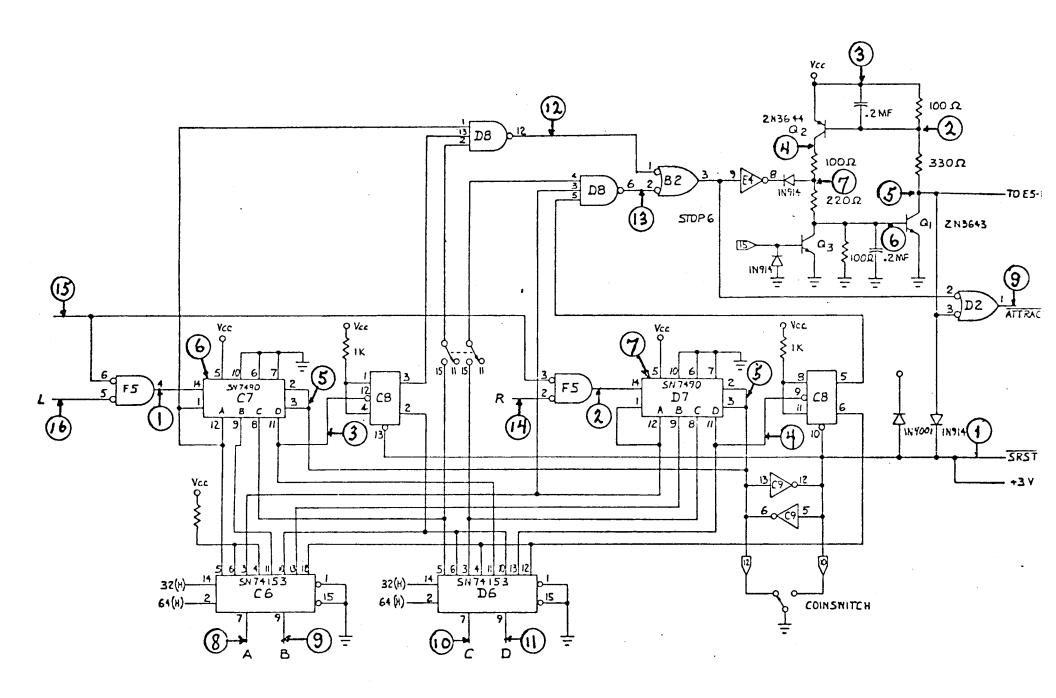


COMPONENT SIDE

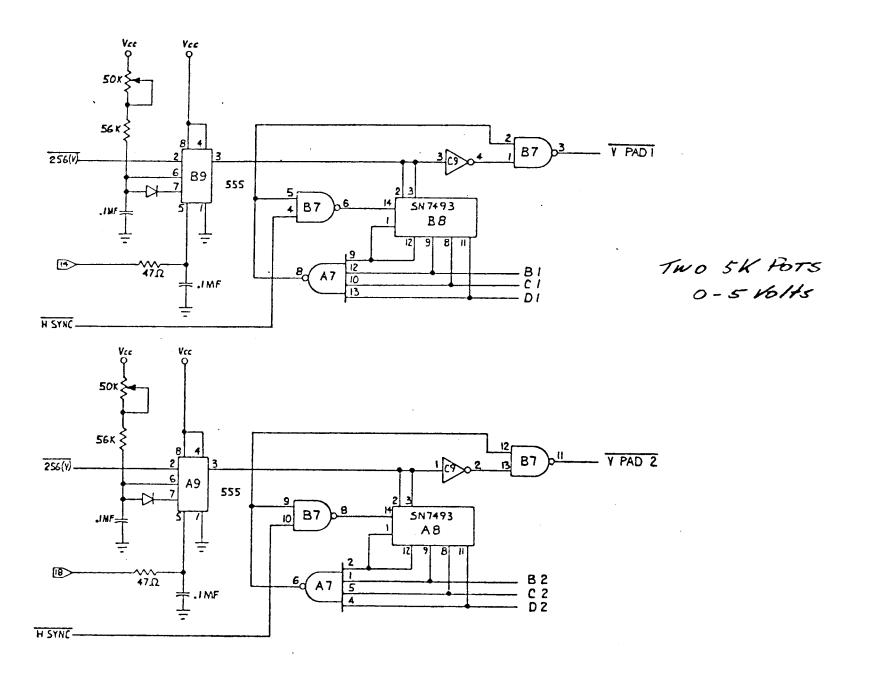


H&U TU-SYNC

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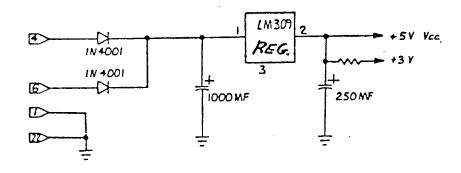


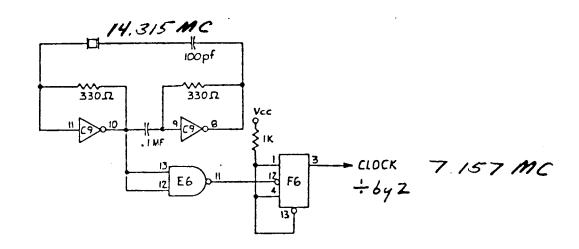
SCORE COUNTERS



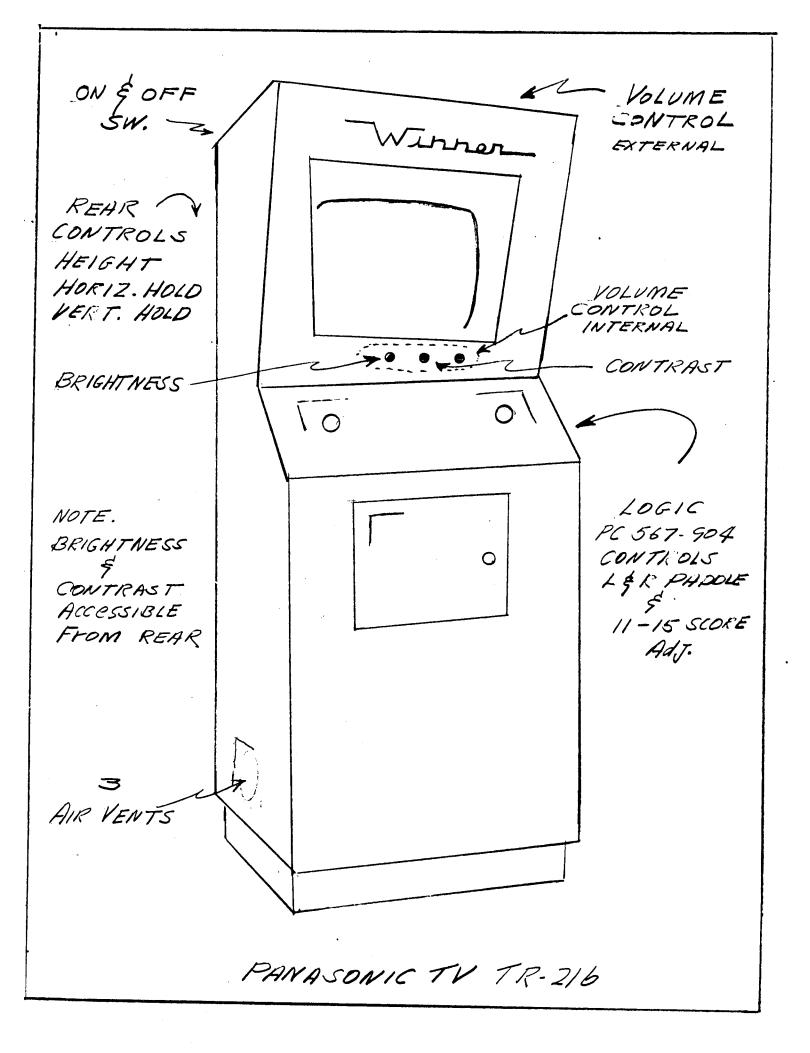
PANDLES L&R

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POWER (ZPLAYER)



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Trouble Shooting Game Reset

COMPLAINT:

Game fails to reset properly (T.V. good).

CHECK THE FOLLOWING:

- 1.) Blown 1 amp slo-blow fuse (115 VAC).
- 2.) Transformer and associated wiring (MT-37).
- 3.) Coin switch #1 and #2 de-energizes the game over relay (M 33-1700).
- 4.) Game over relay switch adjustment (Yellow-Green and White-Blue) or (Black-Green and Orange-Black).
- 5.) Coin switch #1 and #2 energizes the coin relay.
- 6.) Open coin relay coil (M 33-1700).
- 7.) Coin relay switch adjustment (Red and Green or Black).
- 8.) Game logic unit jack connection pins #2, #4, #6, #7, #10, #12, #15, and #22.
- 9.) Defective logic unit, (PC 567-904) or game timer unit (PC 567-907).

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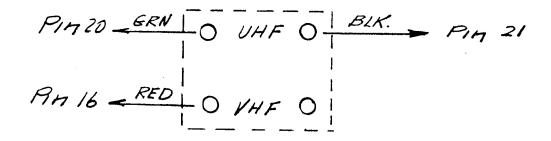
TR-216 T.V. Modification

MAKE THE FOLLOWING CHANGES:

- 1.) Remove UHF and VHF internal-external antenna leads (tape).
- 2.) Cut one side of R-124 resistor (100 ohm).
- 3.) Connect TP-4 terminal with Green lead wire to internal UHF antenna. (Left side #3).
- 4.) Connect E-3 terminal with Black lead wire to internal UHF antenna. (Right side #4).
- 5.) Connect Red wire to the White wire of volume control cable.
- 6.) Connect external volume control in series with T.V. speaker.

NOTE: Steps #1 through #4 eliminate T.V. picture.

Steps #5 and #6 alter T.V. sound.



T.V ANTENNA TERMINALS VIEWED FROM REAK

WINNER

Packard Bell T.V. Modification 2N621BG ...

Factory Changes

- 1.) Remove all antenna leads and ground straps.
- Cut Brown and Brown-Yellow wires from on and off switch (splice and tape).
- 3.) Cut speaker leads and remove speaker (mounted externally).
- 4.) Disconnect 9 and 2 pt. jacks and remove tuner assembly.
- Cut green, yellow and ground wires at 9 pt. jack.
- 6.) Plug in 9 pt. adapter cable jack.
- 7.) Wire one end of added 3 wire cable to antenna terminals. Left side green then black and red (VHF & UHF).
- 8.) Solder green of 3 wire cable to terminal TP-3 (logic).
- 9.) Solder black of 3 wire cable to terminal link (ground).
- 10.) Solder red of 3 wire cable to yellow removed from 9 pt. jack (audio).
- 11.) Solder 47K ohm resistor across antenna terminals black and red.
- 12.) Cut one end of resistor R-119 (1.2k).
- 13.) Solder adapter cable black-yellow to 4 lug terminal strip with black.

Check T.V. set electrically in game.



December 4, 1973

POWER SUPPLY

Loss of 22V supply - suspect shorted Y402, open R404 or open R403.

Loss of 130V supply - suspect R403. Loss of 140V supply - suspect R402.

VERTICAL CIRCUITS

- 1. Loss of vertical sweep suspect Q205 first or Q202 second.
- 2. Bad vertical linearity or insufficient sweep suspect Q204 first and Q203 second.
- 3. Uneven vertical sweep (poor linearity) check values or R223 or R226. Adjust rings on yoke.
- 4. Four vertical sync. be sure I.F. AGC is full counter clock wise.
- 5. Poor vertical linearity could be caused by bad yoke.

HORIZONTAL CIRCUITS

- No horizontal sweep suspect R263, R264, R265 or R266. Next suspect Q253. Always check Y253 when Q253 is defective. Suspect Y253 when there is no sweep.
- 2. If above checks are positive suspect Q251 then Q252.
- 3. Poor sync. be sure I.F. AGC is full counter clockwise.
- 4. Special horizontal circuit modification. To move picture 3/4 inch to left, put .01 capicator in parallel with C253. Readjust horizontal oscillator frequency with C251.

HIGH VOLTAGE CIRCUITS

- 1. Y254 is first suspect.
- 2. Look for trouble in horizontal circuits.

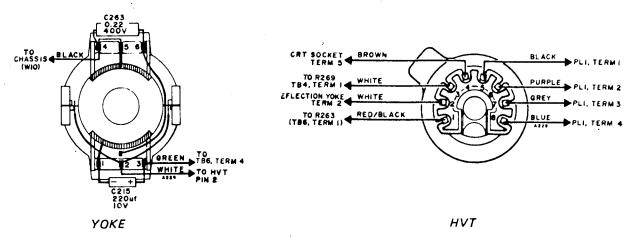
VIDEO CIRCUITS

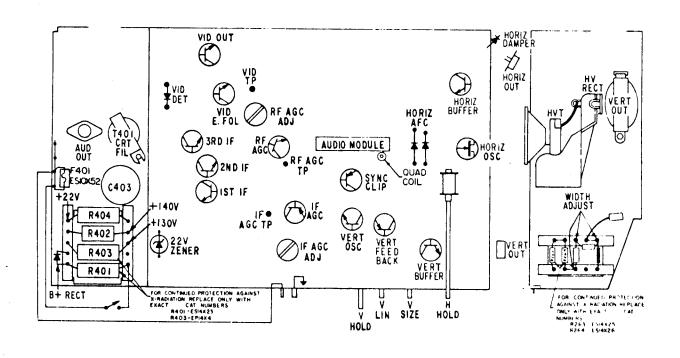
- 1. No Video suspect Q104 first, Q105 second.
- 2. Check Y102 if no picture.
- Poor contrast, be sure I.F. ACC is full counter clockwise.

SOUND CIRCUITS

- 1. No sound suspect Q301. If Q301 is defective, check R306 also.
- 2. No sound suspect R306.
- 3. No sound suspect T301.
- 4. No sound or distorted sound, replace a good audio module.

WIRING DIAGRAMS





CHASSIS LAYOUT

CHASSIS REPLACEMENT PARTS LIST

TOTELLIO			
CAT. NO.	SYMBOL	DESCRIPTION	
ES49X60	R139	Control-IF AGC , 2.5K	
ES49X60	R147	Control-RF AGC , 2.5K	
ES49X61		Control-Triple	
	R210	Height, 85K	
	R215 R218	Vertical Size , 16K Vertical Lin , , 2.5K	
		AL RESISTORS	
ES41X5	R232	Thermister Assembly	
ES14X27	R233	Thermistor Assembly Thermistor, 650 Ohms, 10%	
ES41X5	R261	Thermistor Assembly	
ES14X25	R263	Resistor Wirewound, 27 Ohms, 10%, 5W	
ES14X26	R264	Resistor-Wirewound, 75 Ohms, 10%, 5W	
ES14X31	R265	Resistor-Wirewound, 27 Ohms, 10%, 2W	
ES14X31	R266	Resistor-Wirewound, 27 Ohms, 10%, 2W	
ES13X3	R307	VDR(180-200V)	
ES14X23	R401	Resistor-Wirewound, 5 Ohms,	
		10%, 10W	
EP14X4	R403	Resistor-Wirewound, 40 Ohms,	
ES14X24	R404	10%, 15W	
2011121	10404	Resistor-Wirewound, 675 Ohms, 5%, 22W	
/DI		PACITORS MIC, UNLESS NOTED)	
		<u> </u>	
# EU18X562 ET22X82	C011	12pf, 10%, 500V, NPO	
ES31X36	C012 C013	820pf, 10%, 500V 10mf, ELECTRO, +100 -10%, 16V	
ES22X6	C100	1000pf, 20%, 50V, HiK	
# EP18X34	C101	68pf., 5%, 500V, NPO	
EU18X417	C102	15pf, 5%, 500V, N750	
EP18X8	C103	27pf, 5%, 500V, NPO	
# EP18X58 ES18X43	C104 C106	15pf., 5%, 500V	
EU22X91	C106	10,000pf, GMV, 50V 560pf, 10%, 500V	
ES18X43	C108	10,000pf, GMV, 50V	
ES22X6	C109	1000pf, 20%, 50V, HiK	
ES18X43	C111	10,000pf, GMV, 50 V	
EU18X533	C112	150pf, 5%, 500V, NPO	
ES22X6 ES22X6	C113	1000pf, 20%, 50V, HiK	
# ES18X58	C114 C115	1000pf, 20%, 50V, HiK 3300pf., 20%, 50V	
ES22X6	C116	1000pf, 20%, 50V, HiK	
EU18X541	C117	82pf, 10%, 500V, NPO	
EU18X417	C118	15pf, 5%, 500V, N750	
EP18X47	C119	10pf, 5%, 500V, NPO	
ES22X6	C120	1000pf, 20%, 50V, HiK	
EP18X47	C121	10pf, 5%, 500V, NPO	
EP18X58 ET18X228	C122 C123	15pf, 5%, 500V	
EP25X29	C123	100pf, 10%, 500V, N750 .1mf, 20%, 50V, (Mylar)	
EU18X533	C125	150pf, 5%, 500V, NPO	
ES31X42	C126	10mf, ELECTRO, +100 -10%, 10V	
ET22X82	C127	820pf, 10%, 500V, HiK	
EP22X4	C128	220pf, 10%, 500V	
# EP25X10	C129	3300pf., 10%, 50V, Paper	
ES25X18	C130	.1mf, 20%, 200V (Mylar)	
ES31X42	C131	10mf, ELECTRO, +100 -10%, 10V	
ES31X45 EP22X4	C132 C133	10mf, ELECTRO, +100 - 10%, 25V	
EP18X3	C133	270pf, 10%, 500V 470pf, GMV, 1.4KV	
EP18X53	C135	100pf, 20%, 500V, HiK	
2. 10/100		100pt, 20%, 500V, HIK	

POTENTIOMETERS

INDICATES PRODUCTION CHANGE

COMMON RESISTORS (CARBON, ½ WATT, 10%, IN OHMS, UNLESS NOTED)				
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
R001	100	R205	47K	
R101	10	R206	8.2K	
# R102	470	R207	10K	
R103	18K, 5%	R208	39K	
R104	6 80	R209	39K	
R105	180	R211	820, 5%	
R106	390	R212	1.5K	
R108	100	R213	10K	
R109	680	R214	10K	
R110	150	R216	68K	
R111	270	R217	200K, 5%	
R112	120	R219	3.3K	
R113	150	R220	220, 5%	
R114	2,2K	R221	1K	
R116	8.2K	R222	100, 5%	
R117	270	R223	22, 5%	
R118	39K	R224	820	
R119	1.2K, ¼ W	R225	47K, 2W	
R120	560, ¼ W	R226	22, 5%	
R121	3.9K, ¼ W	R228	1.5K	
R122	1 meg., ¼ W	R229	56K ¼W	
R123	82K, 5%	R230	4.7K	
R125	180	R250	27K	
R126	560	R251	l meg.	
R127	100, 5%	R252	l meg.	
R128	10	R253	27K	
R129	8.2K, 2W	R254	3.3 meg.	
R131	150K	R255	220K	
R132	1.1K, 5%	R256	1K	
R133	1K	R257	1.8K	
R135	10K	R258	820	
R136	100K	R259	1K	
R137	8.2K	R260	3.3 meg. 1W	
R138	27K	R262	3.3	
R140	82	R267	47K	
R141	6.8K	R268	27K	
R142	56K	R269	100	
R143	470	R270	27K	
R144	22K	R271	22K	
R145	220	R301	390	
R146	4.7	R305	100K	
R148	560	R306	91,5%	
R149	1.8K	R402	470 2W	
R201	470	R405	1.8K, 2W	
R203	820K, 5%		, -,,	
5004			í	

R204

27K, 5%

CHASSIS REPLACEMENT PARTS LIST

CAPACITORS		
(DISC, CERAMIC, UNLESS NOTED)		

	(1)100	, CLITAII	
	CAT.NO.	SYMBOL	DESCRIPTION
	EP18X34	#C136	68pf., 5%, 500V, NPO
ا	EP18X58	# C137	15pf., 5%, 500 V
1	ES22X6	C201	1000pf, 20%, 50V, HiK
i	ES31X40	C202	.47mf, ELECTRO, +150 - 10%, 50V
Ì	ES22X3	C203	3300pf, 20%, 500V
i	EP18X26	C204	10,000pf, 20%, 500 V
ı	EP25X29	C205	.1mf, 20%, 50V (Mylar)
ı	ES25X9	C206	.033mf, 10%, 50V (Mylar)
I	ES25X17	C207	.047mf, 50V, (Mylar)
1	ES25X21	C208	.15mf, 10%, 50V, (Mylar)
ı		C209	
	ES31X41	C210	2.2mf, ELECTRO, +150 -10%, 50V
1	COMMON	C212	.22mf, 10%, 600V (Molded)
١	EU22X117	C213	1000pf, 20%, 500 V , SSHK
ı	ES31X42	C214	10mf, ELECTRO, +100 -10%, 10V
İ	ES31X39	C215	220mf, ELECTRO, +100 -10%, 10 V
l	EU22X127	C216	3300pf, 10%, 500V
l	EU18X537	C251	47pf, 10%, 500V, N330
Ì	EU22X129	C252	2200pf, 10%, 500V, SSHK
ĺ	ES20X2	C253	470pf, 5%, 500V, Mica
ì	ES25X20	C254	2700pf, 10%, 50V, (Mylar)
-	EP22X7	C255	5000pf, 10%, 500V
1	ES25X22	C257	.01mf, 5%, 50V, (Mylar)
1	ES25X18	C258	.1 mf, 20%, 200V, (Mylar)
1	EU22X129	C259	2200pf, 10%, 500V, SSHK
	ES26X1	C261	2700pf, 5%, 1.2KV (Molded)
ı	ES31X44	C262	50mf, ELECTRO, +100 -10%, 150V
	ES26X2	C263	.22mf, 10%, 400V, (Molded)
	EP25X29	C264	.1 mt, 20%, 50V (Mylar)
	ET18X329	C265	56pf, 5%, 500V, N750
•	ES31X43	C266	47mf, ELECTRO, +100 -10%, 16V
	EP31X14	C308	1mf, ELECTRO, +150 - 10%, 50V
	ET22X22	C309 .	10,000pf, 20%, 500 V
	EP25X28	C401	.047mf, 20%, 600V, (Mylar)
	EP18X4	C402	1000pf, +80 -20%, 1KV
	ES31X38	C403A	300mf, ELECTRO, 175V
		C403B	30mf, ELECTRO, 150V
	1	C403C	300mf, ELECTRO, 150V
	i	C403D	200mf, ELECTRO, 50V

COILS AND TRANSFORMERS

CAT. NO. SYMBOL		DESCRIPTION
EP36X92	#L101	Coil-Shaping
ES36X83	L102	Coil-41.25 MHz Trap
EP36X13	L103	Coil-47.25 MHz Trap
ES36X109	#L:04	Coil -Link Series
ES36X61	L105	Coil-88 MHz Choke ,10uh + 20%
ES36X84	L106	Coil-44 MHz Trap, 35.7uh
ES36X82	L107	Coil-220uh Peaking
ES36X86	L108	Coil-Sound Take-Off
€S36X87	L109	Coil-4.5 MHz Trap
EP36X17	L110	Coil-150uh Peaking Coil
ES36X88	L251	Coil-Horizontal Oscillator
ST36X536	L252	Coil-5.6uh
T36X536	L253	Coil-5.6uh
S76X6		Deflection Yoke
ेS 56X7	TIOI	Transformer - Video Detector
S64X11	T201	Transformer - Vertical Output
€S64X12	T251	Transformer - Horizontal Buffer
S77X12	T252	Transformer - High Voltage
	}	(Complete Asm. Less Rectifier and
		Anode Lead)
:S64X13	T301	Transformer - Audio Output
S64X10	T401	Transformer - CRT Filament

TRANSISTORS & DIODES

CAT. NO.	SYMBOL	DESCRIPTION
ES15X104	Q101	Transistor - 1st I.F.
ES15X105	Q102	Transistor - 2nd I.F.
ES15X106	Q103	Transistor - 3rd I.F.
EP15X1	Q104	Transistor - Video Emitter Follower
ES15X107	Q105	Transistor - Video Amp., w/Spacer
EP15X1	Q106	Transistor • RF AGC
ES15X90	Q107	Transistor - I.F. AGC
ES15X90	Q201	Transistor - Clipper
EP15X1	Q202	Transistor - Vertical Oscillator
ES15X90	Q203	Transistor - Vertical Feedback
EP15X1	Q204	Transistor - Vertical Buffer
ES15X91	Q205	Transistor - Vertical Output, w/Insulator
ES15X92	Q251	Transistor - Horizontal Oscillator
ES15X93	Q252	Transistor - Horizontal Buffer
ES15X94	Q253	Transistor - Horizontal Output, w/Insulator
ES15X95	Q301	Transistor - Audio Output, w/Insulator
EP16X3	Y 101	Diode - Video Detector
ES16X30	Y102	Diode - Video Clamping
ES16X27	Y103	Diode - AGC Coupling
ES16X27	Y201	Diode - Vertical Blanking
EP16X3	# ¥202	Diode - Vertical Coupling
ES16X27	Y203	Diode - Vertical Coupling
ES57X12	Y204	Diode - Vertical Damper
ES16X27	¥205	Diode - Vertical Feedback
ES16X27	Y251	Diode - Horizontal AFC
ES16X27	Y252	Diode - Horizontal AFC
ES16X28	Y253	Diode - Horizontal Damper
ES57X11	Y254	Rectifier - High Voltage
ES16X27	Y255	Diode - Horizontal Coupling
ES57X12	Y401	Rectifier - B+
ES16X29	Y402	Diode - 22 Volt Zener

MISCELLANEOUS

CAT. NO.	DESCRIPTION
EP8X6	Anode Lead
ES3X30	Clip - Transistor Mtg. (Q205)
ET5X27	Clip - Yoke
EP12X84	Core Half - H. V. Transformer
ES1X29	Eyelet - H. V. Rectifier, Brass, w/Spring
ET3X651	Fastener - Nylon, Transistor Socket
EP10X52	Fuse - 4 Amp, Fast-Blow, Pigtail, 250V (F401)
ES60X3	Heat Sink - Q105
ES60X4	Insulator - Horiz. Output Transistor (Q253)
EP38X6	Interlock Board - AC Power
ES75X1	Module - Audio
ET1X140	Screw - Hex Hd., No. 8-15 x 1/2"
	Terminal Board Mounting
EP1X7	Screw - Hex Hd., No. 8-15 x 3/8",
	End Panels to Chassis
ES69X6	Shaft - Nylon, Horizontal Hold
ES34X11	Socket - Transistor (Q301)
ES34X10	Socket - Transistor (Q253)
ES34X12	Socket - CRT
ES34X15	Socket - Transistor (Q205)
ES34X13	Socket - Transistor (Q201, 203, 204, 251)
ES34X14	Socket - Audio Module (Left & Right Halves)
ES41X4	Spark Gap - (SG 101, 102)
ES38X9	Terminal Board - Five Terminals, R263, 264
	Mounting
ET2X223	"U" Bolt - H. V. Transformer

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