

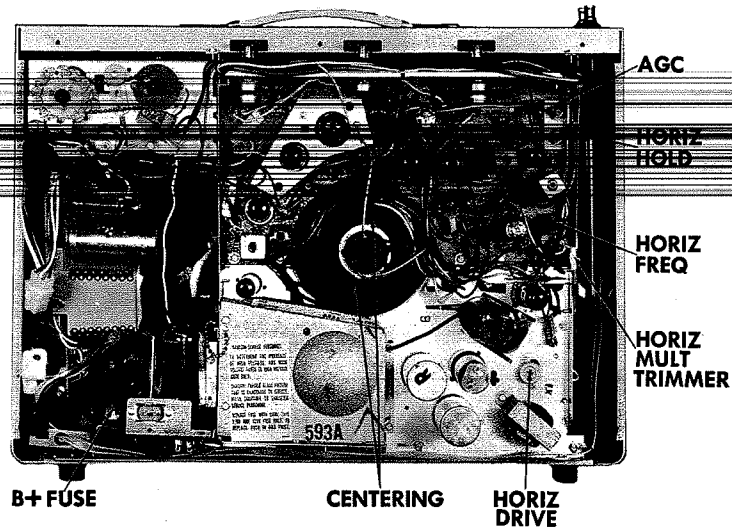
DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 3 knobs from front. Remove rear cover (8 screws).
2. Remove mask and safety glass (3 screws at bottom).
3. Remove Remote chassis (2 screws, 1 plug to Tuner and 1 plug to microphone).
4. Remove 8 screws around cabinet holding chassis. Remove 1 screw from front holding Tuner Assembly. Remove 2 screws holding Manual Remote Switch.
5. Unplug picture tube socket, remove yoke clamp, anode lead and speaker leads. Remove chassis and yoke.

PICTURE TUBE REMOVAL

Picture tube may be removed out front without removing chassis. Follow Steps 1 and 2 of Disassembly Instructions. Remove anode lead, speaker leads, yoke clamp and picture tube socket. Remove 4 bolts (1 at each corner) and remove tube.



CABINET—REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV signal and set the "Local-Distance" (AGC) Control fully counterclockwise. Connect a short clip lead across Horizontal Stabilizer Coil, L19.

Connect another clip lead from Point Ⓢ to chassis. Set Horizontal Hold Control to center of its range. Adjust Horizontal Mult. Trimmer (B1) until picture synchronizes horizontally. In most cases the picture will appear to float back and forth across the screen.

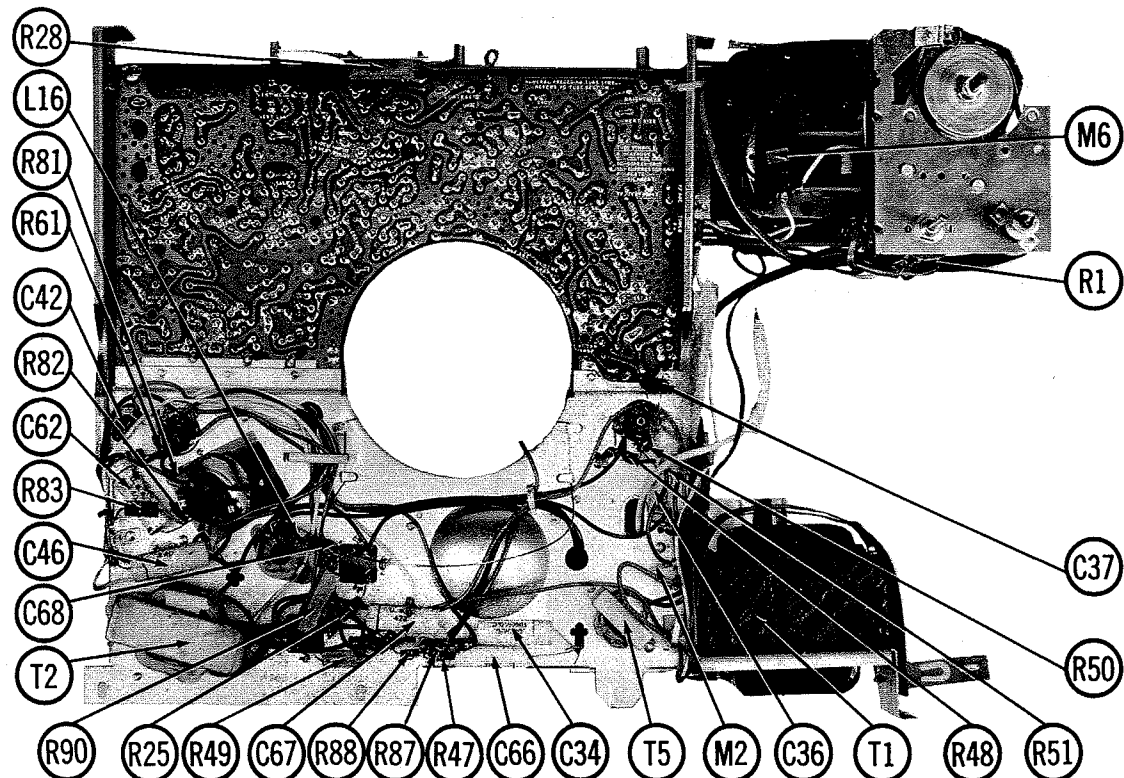
Remove the clip lead from L19. Adjust the Horizontal Frequency Slug

(B2) until the picture again synchronizes horizontally.

Remove the clip lead from Point Ⓢ and chassis. The picture should then lock in solid.

Set the Horizontal Drive as far counterclockwise as possible without the presence of a vertical white line (drive line) or compression near the center of the raster.

Insufficient width may be corrected by connecting a jumper across R84.

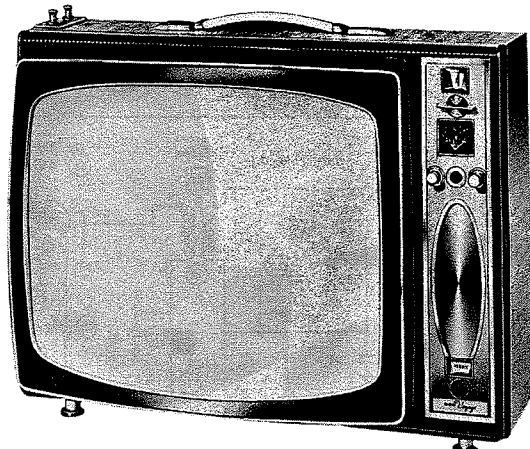


CHASSIS—FRONT VIEW

SET 608 FOLDER 1

PHOTOFACT® Folder with CIRCUITRACE®

DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)



MODEL 800-B150 (CH. 120593A)

IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

INDEX

Remote Receiver 471345,
Transmitter 471347 SET 608, FOLDER 1-A

TRADE NAME	DUMONT	Models	Chassis	Remote Receiver	Transmitter
		800-B148 . . .	120591A		
		800-B149 . . .	120592A		
		800-B150 . . .	120593A	471345 . . .	471347
MANUFACTURER	Dumont, Div. of Emerson Radio Inc., 14th and Coles Streets, Jersey City 2, New Jersey				
TYPE SET	19" Portable Television Receiver				
TUBES	Seventeen				
POWER SUPPLY	110-120 Volts AC, 60 Cycle				
TUNING RANGE	Channel 2 thru 13 VHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)				
			RATING	230 Watts, 1.6 Amp. @ 117 Volts AC	

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

Remove 3 knobs from front. Remove 3 screws at bottom of mask. Lift out and up.

FUSE OR FUSE DEVICE

A 7/10 Amp. (S/B) low voltage supply fuse and a fuse wire (filament) are used for TV Receiver protection. See "Tube Placement Chart" for fuse location, see photo, page 16 for fuse wire (M2) location.

TUNER OSCILLATOR ADJUSTMENT

The VHF Tuner Oscillator screw is adjusted by turning the Fine Tuning knob.

AGC

The AGC is adjusted by the Local-Distance Control. (See "Tube Placement Chart" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the Horizontal Hold is accomplished by the proper setting of the Horiz. Stab. Coll (Freq.) Slug (B2). (See "Tube Placement Chart" for location.)

FOCUS

The focus may be varied by connecting the lead from pin 4 of the picture tube to various voltage points. (For location, see photo, page 14.)

WIDTH

Some versions may use a jumper across R84 for an increase in width. (See R84 in photo, page 14.)

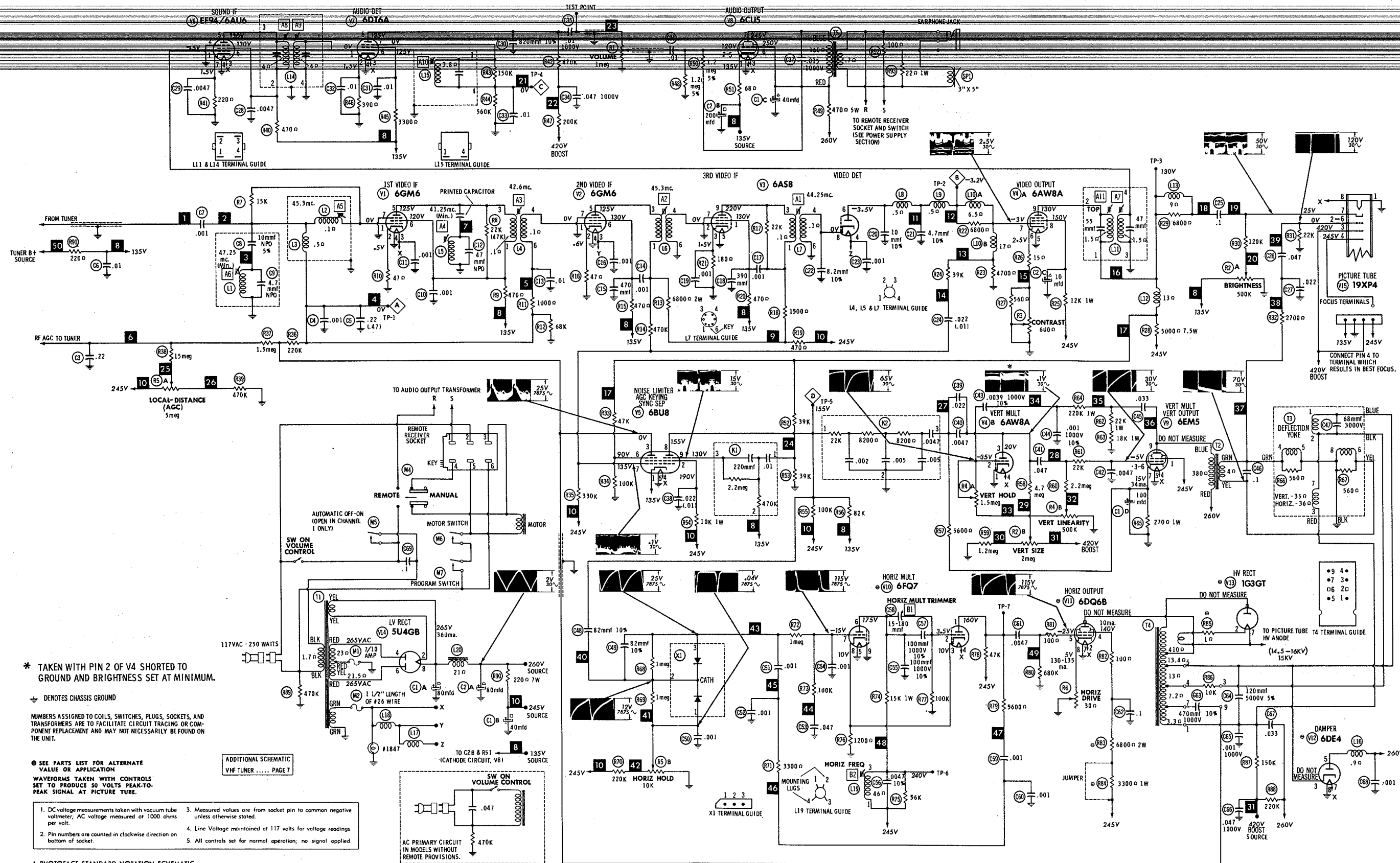
CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

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

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LA594R

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DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)

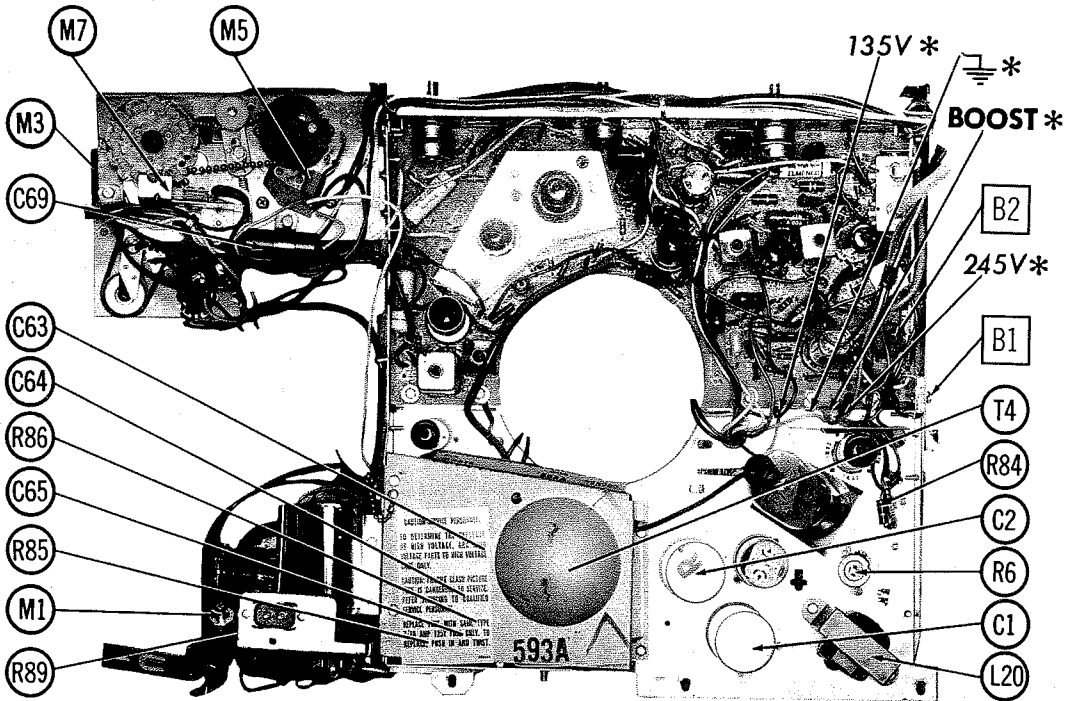
FOLDER 1

DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6GM6	68K	47Ω	FIL	FIL	■ 550Ω	■ 550Ω	0Ω		
V2	6GM6	69K	47Ω	FIL	FIL	† 8000Ω	■ 550Ω	0Ω		
V3	6AS8	■ 540Ω	0Ω	180Ω	FIL	FIL	4700Ω	0Ω	0Ω	† 2300Ω
V4	6AW8A	0Ω	• 1meg	• † 6 meg	FIL	FIL	24Ω	4700Ω	† 12K	† 5K
V5	6BU8	■ 68Ω	† 10K	220K	FIL	FIL	† 52K	† 200K	† 75K	■ 2.7meg
V6	EF94 6AU6	2Ω	0Ω	FIL	FIL	■ 500Ω	■ 500Ω	220Ω		
V7	6DT6A	4Ω	390Ω	FIL	FIL	† 920K	■ 3300Ω	560K		
V8	6CU5	140K	1.2meg	FIL	FIL	NC	† 470Ω	† 650Ω		
V9	6EM5	† 240Ω	TP	NC	FIL	FIL	• 2.5meg	270Ω	NC	† 330Ω
V10	6FQ7	† 47K	100K	1200Ω	FIL	FIL	† 15K	3meg	1200Ω	0Ω
V11	6DQ6B	TP	FIL	TP	• † 10K	680K	TP	FIL	• 24Ω	TOP CAP † 13.4Ω
V12	6DE4	NC	NC	† 370K	NC	† 24Ω	NC	FIL	FIL	
V13	1G3GT	PINS 1 THRU 9 HAVE INFINITE RESISTANCE								TOP CAP † 423Ω
V14	5U4GB	NC	† 40K	NC	23Ω	NC	21.5Ω	NC	† 40K	
V15	19XP4	FIL	22K	† 150K	† 240Ω			• 150K	FIL	
V201	6GK5	0Ω	1.5meg	FIL	FIL	■ 2200Ω	0Ω	0Ω		
V202	6CG8	12K	■ 5000Ω	0Ω	FIL	FIL	■ 1200Ω	■ 27K	0Ω	100K
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

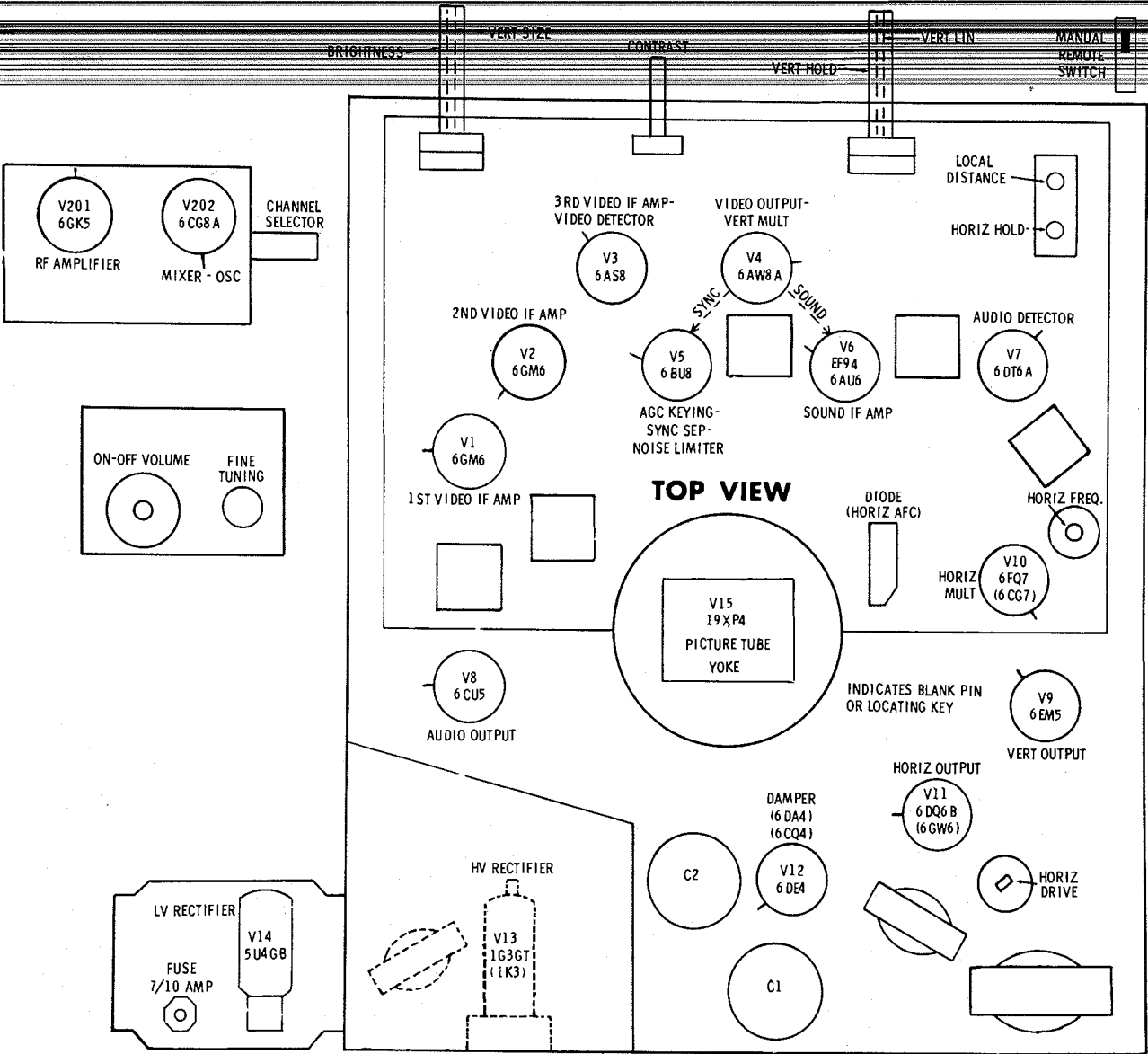
- † THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
- THIS READING WILL VARY, CONTROL SET FOR NORMAL OPERATION.
- † MEASURED FROM PIN 8 OF V14.
- MEASURED FROM PIN 1 OF V8.
- † MEASURED FROM PIN 3 OF V12.
- NC NO CONNECTION
- TP TIE POINT



* FOCUS POINTS

CHASSIS—REAR VIEW

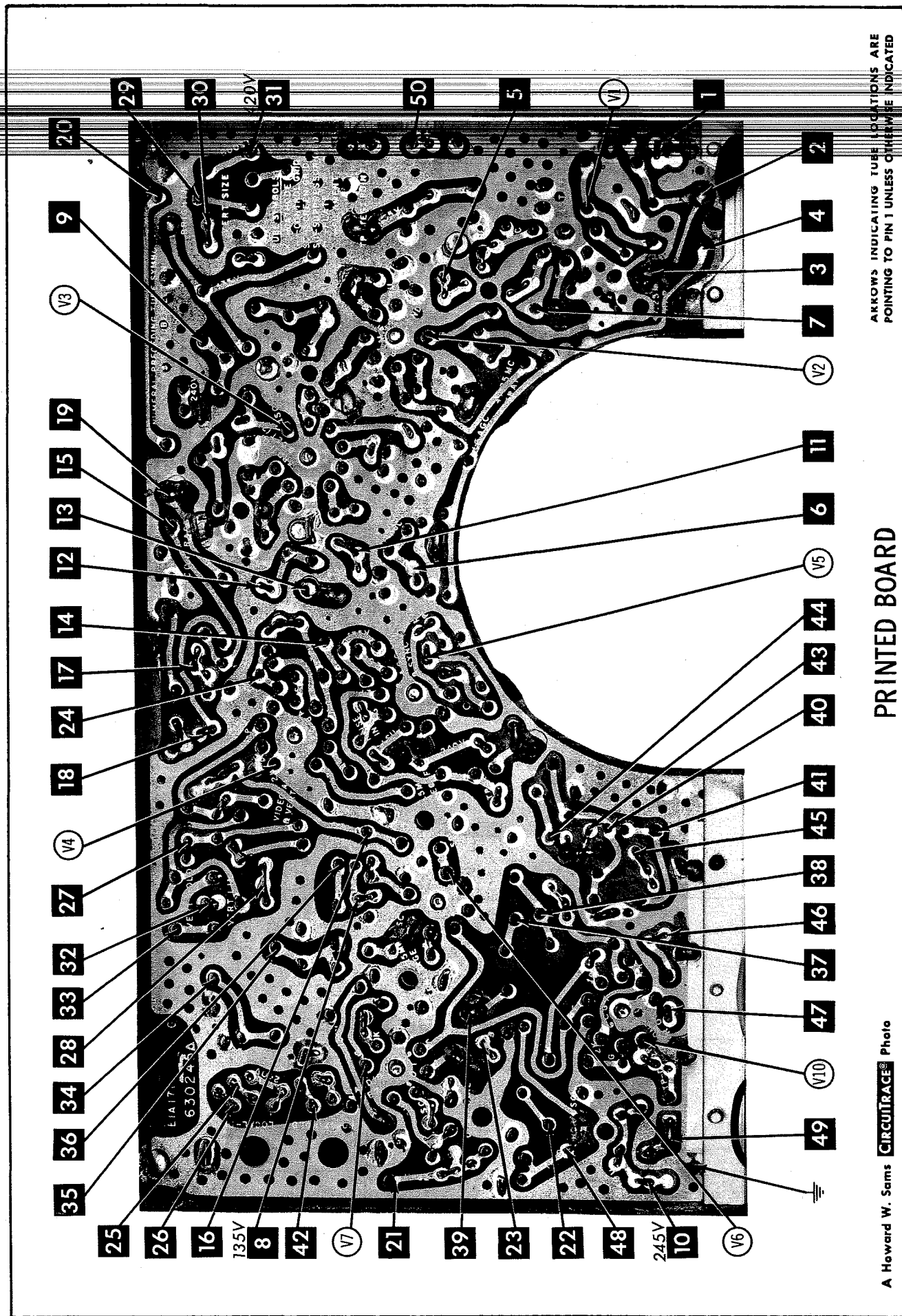
TUBE PLACEMENT CHART



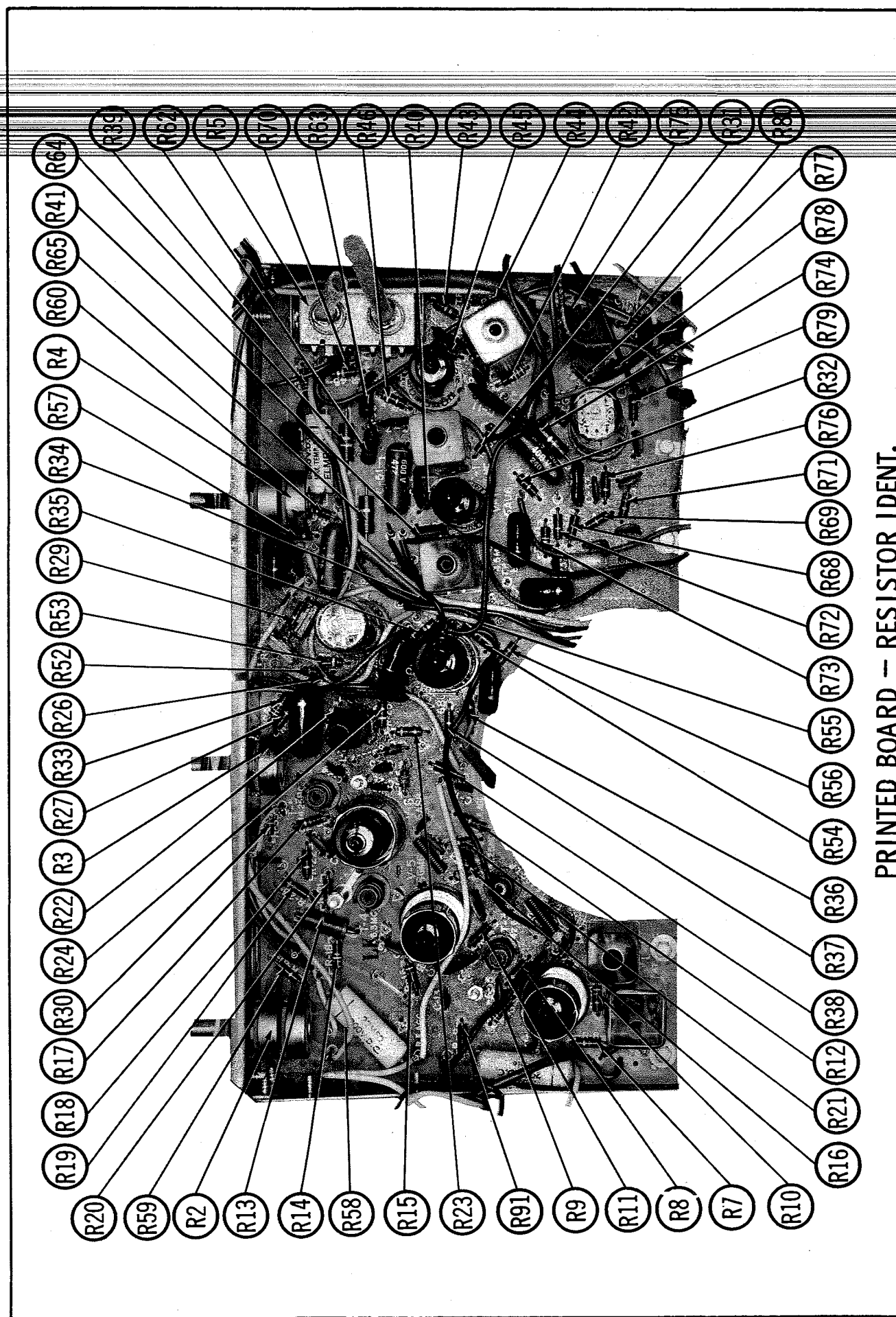
DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)

TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce indicated symptoms. Refer to tube placement chart for location and type of tube.	
POWER SUPPLY FAILURE No raster, no sound Fuse M1, Fil. Wire Fuse M2, V14	LOSS OF PICTURE OR SOUND No pic, no sound, has raster V1, V2, V3, V4 No pic, no sound, has snow V201, V202, V1 No pic, has sound, has raster V4, V5 Has pic, no sound V6, V7, V8 Overloaded picture V5
SWEEP FAILURE No raster, has sound V10, V11, V12, V13, V15 No vertical deflection V4, V9 Poor vert. linearity or foldover V4, V9 Poor horiz. linearity or foldover V10, V11, V12 Narrow picture V10, V11, V12, V14 Vert. off freq. V4, V9 Horiz. off freq. V10, X1	SYNC FAILURE No vert. sync V5 No horiz. sync V5, V10 No vert. or horiz. sync V5



A Howard W. Sams **CIRCUITRACE**® Photo



DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Allow a 20 minute warm-up period for the receiver and test equipment.
The High Voltage lead should be securely taped and kept away from the chassis.
Use only enough sweep generator output to provide a usable pattern on scope.
Suggested Alignment Tools: A1 thru A11, B1 GENERAL CEMENT #8282, 8606, 8606L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the negative lead of a 3 volt bias supply to point \diamond . Positive to chassis.
Disable oscillator grid by removing a pin of a test tube.
Use only enough generator output to provide a usable indication.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	High side to ungrounded tube shield over Mixer- Osc. Low side to chassis	Not used	44.25MC	Any non- interfering channel	DC Probe to Point \diamond Common to chassis.	A1	Adjust for maximum deflection.
2.	"	"	45.3MC	"	"	A2	"
3.	"	"	42.6MC	"	"	A3	"
4.	"	"	41.25MC	"	"	A4	Adjust for MINIMUM deflection. If necessary, disconnect bias at Point \diamond to produce meter deflection.
5.	"	"	45.3MC	"	"	A5, Mixer Plate Coil	Connect Bias at Point \diamond and adjust for maximum deflection.
6.	"	"	47.25MC	"	"	A6	Disconnect bias as in Step 4 and adjust A6 for MINIMUM deflection.
7.	"	44MC (10MC Sweep)	41.25MC 42.75MC 44.25MC 45.75MC 47.25MC	"	"		Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. If necessary, retouch Steps 1 thru 6.

SOUND IF ALIGNMENT

Tune in a strong TV signal and adjust controls for normal operation. Adjust A7, A8 and A9 for loudest undistorted sound.
Connect a DC Probe of a VTVM to Point \diamond . Common to chassis.
Adjust A10 for maximum deflection with loudest undistorted sound.
With antenna disconnected to produce a weak signal, retouch A7, A8, A9 and A10 for maximum sound.
Check sound on all available channels and if necessary repeat sound alignment.

4.5MC TRAP ALIGNMENT

Tune in a strong TV signal and adjust Fine Tuning control until a 4.5MC beat pattern is visible on the screen.
Adjust A11 for MINIMUM beat interference in the picture.

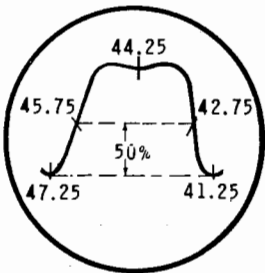
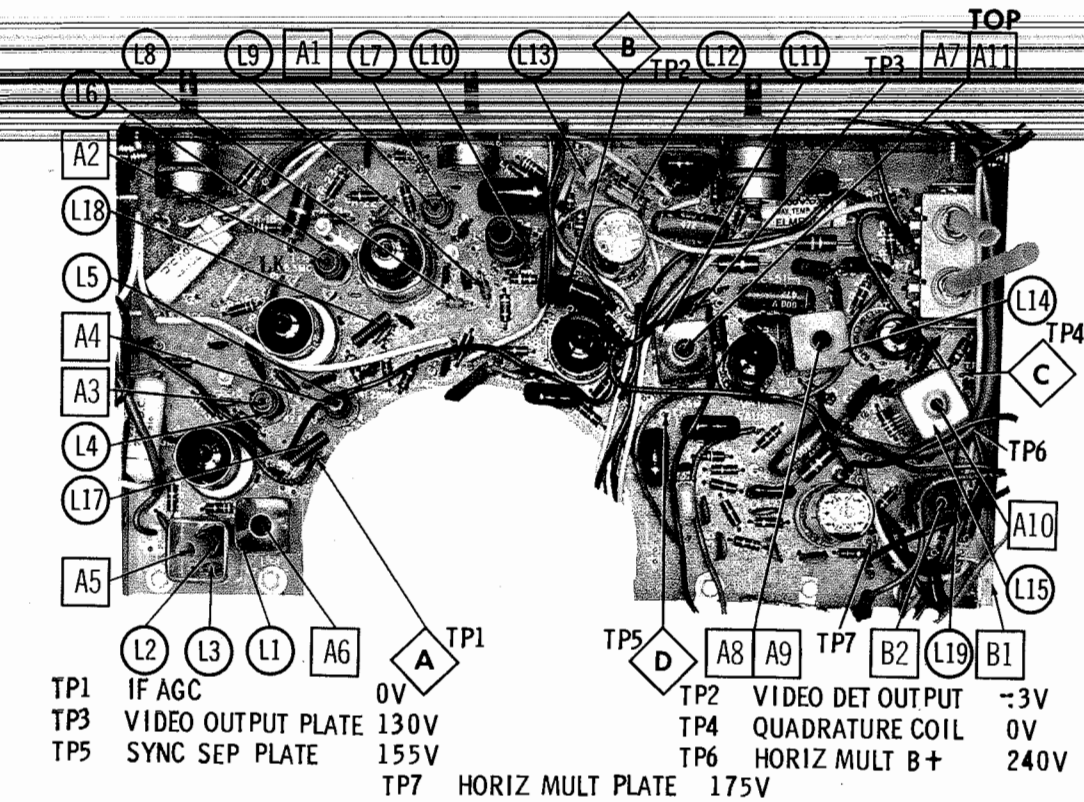
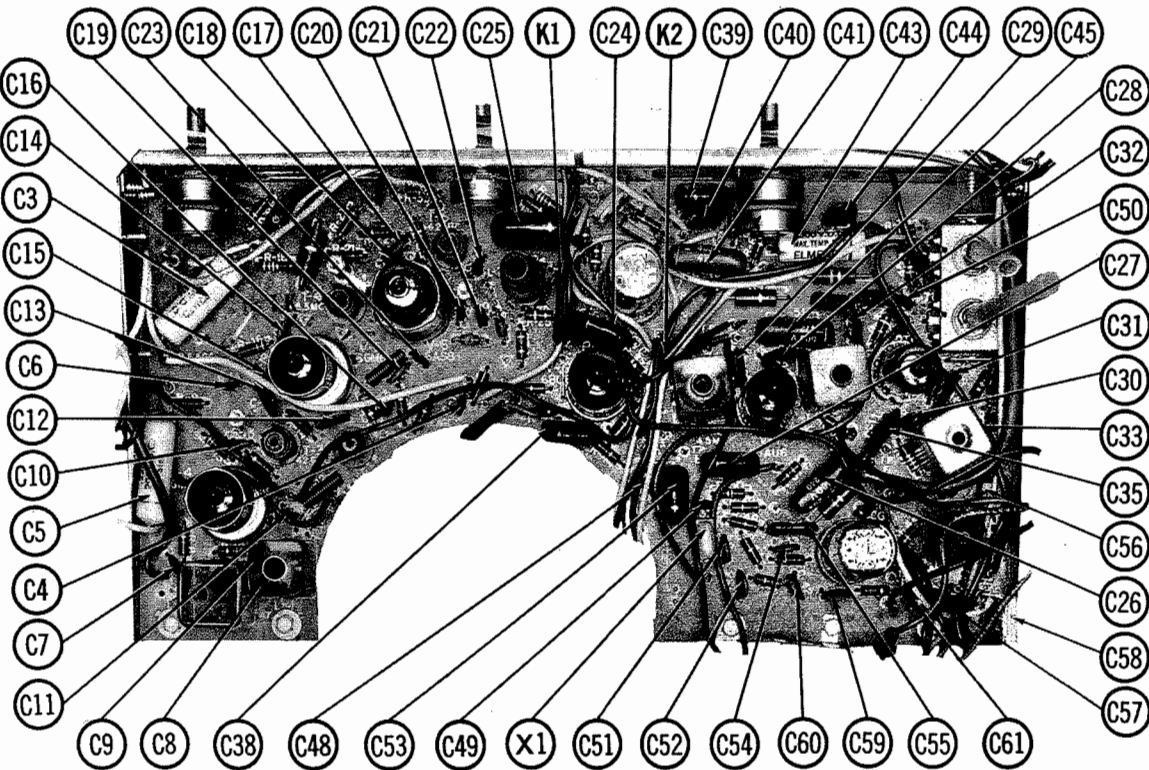


FIG 1



PRINTED BOARD - ALIGNMENT, INDUCTOR, TEST POINT IDENT.



PRINTED BOARD - CAPACITOR, MISC. IDENT.

VHF TUNER ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

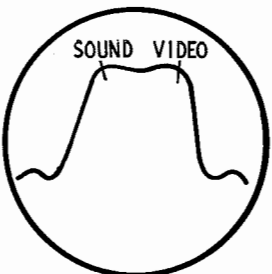
The High Voltage lead should be securely taped and kept away from the chassis.
Allow a 20 minute warm-up period for the receiver and test equipment.

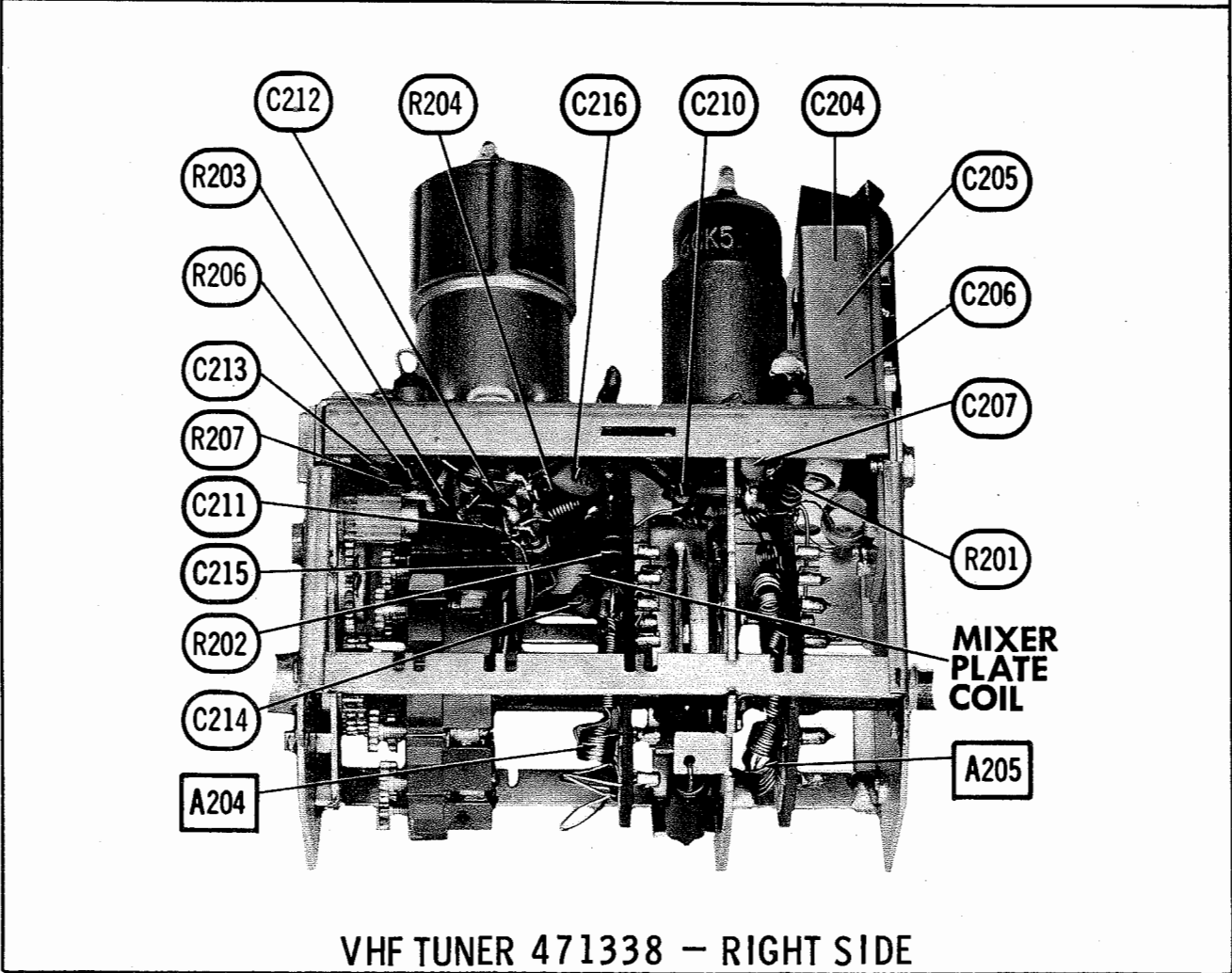
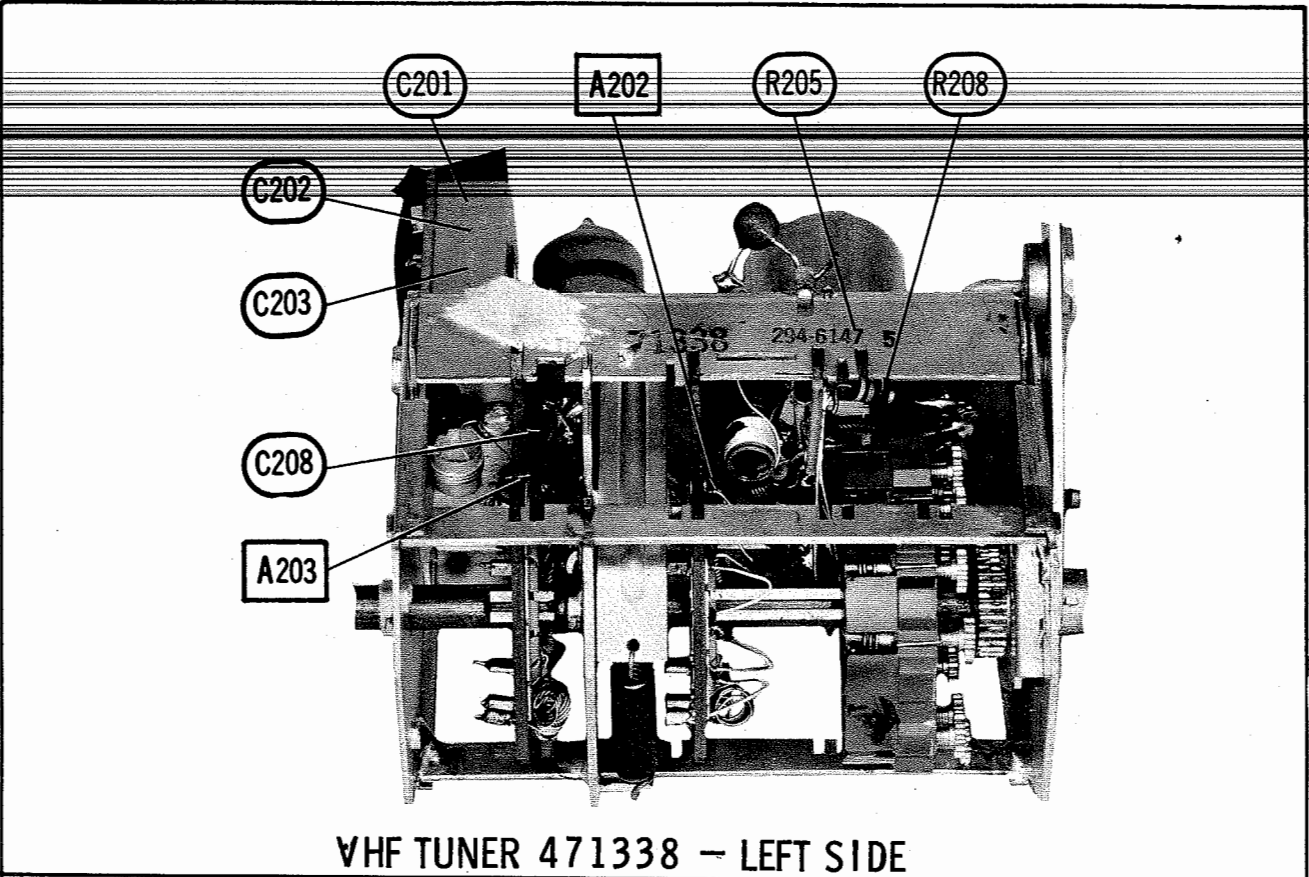
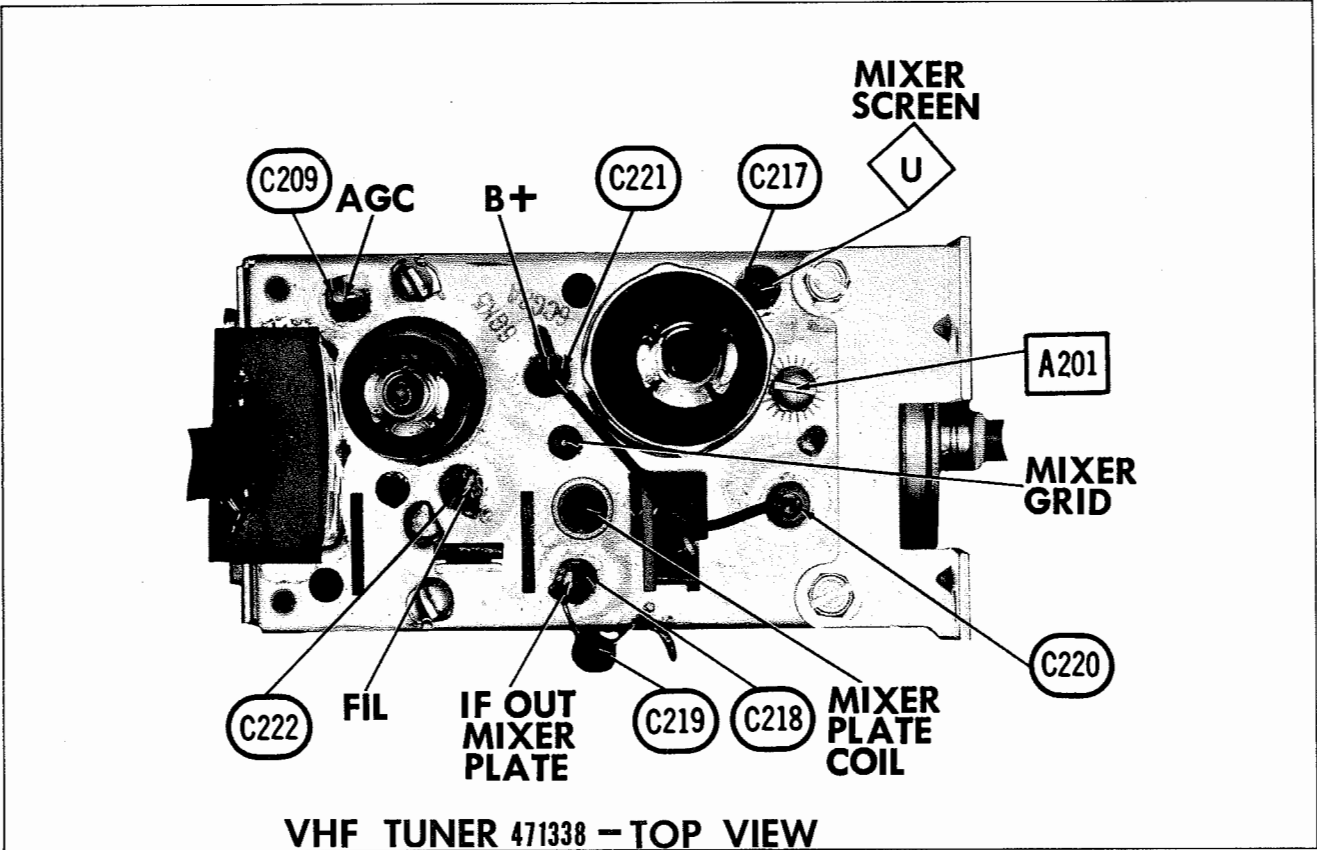
VHF OSCILLATOR ADJUSTMENT

If adjustment of individual oscillator does not bring in desired results, adjust A201 and readjust individual slugs.

VHF RF MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.
Connect variable bias to IF AGC line. Adjust bias to obtain response curve which shows no indication of overloading.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Across antenna terminal with 120Ω resistor in each lead.	213MC	211. 25MC 215. 75MC	13	Vert. Amp. thru Demodulator Probe to Point Ⓢ. Low side to chassis.	A202, A203	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown. Observe response curve on channels 8 thru 12. If necessary, compress or expand coils for proper response as in Fig. 201.
2.	"	177MC	175. 25MC 179. 75MC	7	"	A204, A205	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown. Observe response curve on channels 2 thru 6. If necessary, compress or expand coils for proper response as in Fig. 201.
		207MC	205. 25MC 209. 75MC	12			 FIG 201
		201MC	199. 25MC 203. 75MC	11			
		195MC	193. 25MC 197. 75MC	10			
		189MC	187. 25MC 191. 75MC	9			
		183MC	181. 25MC 185. 75MC	8			
		85MC	83. 25MC 87. 75MC	6			
		79MC	77. 25MC 81. 75MC	5			
		69MC	67. 25MC 71. 75MC	4			
		63MC	61. 25MC 65. 75MC	3			
		57MC	55. 25MC 59. 75MC	2			



PARTS LIST AND DESCRIPTIONS (Continued)

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			DUMONT PART No.		LITELFUSE PART No.		BUSS PART No.	
			PLATE	MOUNTING	PLATE	MOUNTING	PLATE	MOUNTING
M1	N	1/8A	ROR22A		33X-750	368000	N-7/10	BN-1/2 to 3/4
M2	1 1/2"	length of #26 wire			(N 1/2)A			
					250V S/B			

MISCELLANEOUS

ITEM No.	PART NAME	DUMONT PART No.	NOTES
M3	VHF Tuner	471338	
M4	Switch		Remote-Manual
M5	Switch		Auto Off
M6	Switch		Motor
M7	Switch		Program
M8	Antenna (Brass)	471348	Models 800-B148, 149, JFD REPLACEMENT #TA389
	Antenna (Gold)	471247	Model 800-B150, JFD REPLACEMENT #TA393
	Antenna (Silver)	471348A	Models 800-B148, 149
	Antenna (Silver)	471247A	Model 800-B150

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Shield (Plastic)	461525	Cabinet Front (Brown)
Shield (Plastic)	461525A	Cabinet Front (Grey)
Shield (Plastic)	461353	Picture Tube
Knob (Gold)	400066	VHF Channel Selector
Knob (Silver)	400066A	VHF Channel Selector
Knob	460987	Brightness, Contrast, Vertical Hold
Knob (Gold)	400060	Fine Tuning
Knob (Silver)	400060A	Fine Tuning
Dial	461521	VHF Calibrated
Carrying Handle	461271A	Beige and Brass
Carrying Handle	461271B	Grey and Silver
Cabinet	141319L	Clad Metal-Bronze, Models 800-B148, B149
Cabinet	141320L	Clad Metal-Charcoal, Model 800-B150
Cabinet Back	461527	Brown
Cabinet Back	461527A	Grey

VHF TUNER PARTS LIST AND DESCRIPTIONS

TUBES

AMPEREX			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	6GK5	V202	Mixer - Osc.	6CG8A						

FIXED CAPACITORS

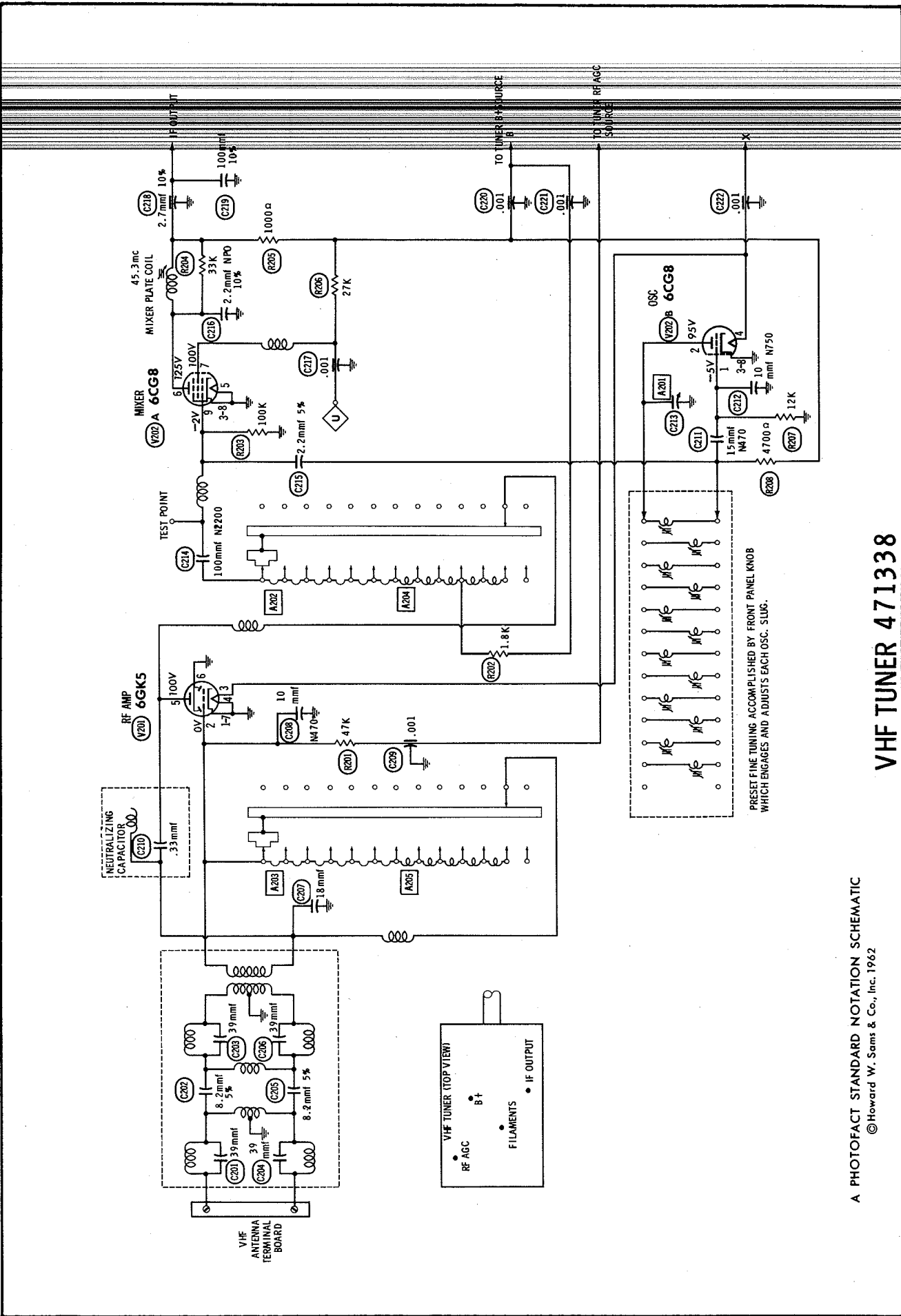
ITEM No.	RATING		REMARKS	REPLACEMENT DATA					
				AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
R201	39			DI-39	DD-390	L10Q39	CCD-390	GP439	10TS-Q39
R202	8.2	5%		DI-8.2	DD-080	L10V8		GP580	10TS-V80
C203	39			DI-39	DD-390	L10Q39	CCD-390	GP439	10TS-Q39
C204	39			DI-39	DD-390	L10Q39	CCD-390	GP439	10TS-Q39
C205	8.2	5%		DI-8.2	DD-080	L10V8		GP580	10TS-V80
C206	39			DI-39	DD-390	L10Q39	CCD-390	GP439	10TS-Q39
C207	18.0			DI-18.2	DD-080	L10V8		GP580	10TS-V80
C208	10	N470					*		
C209	.001			EF-6-1000	MFT-1000		CCF-102	CT280A	BH-340
C210	.33mmf						*		
C211	15	N470							
C212	10	N750		N750-DI-10	DTN-10	C10QU	CCTN-100	CN7-410	10TCU-Q10
C213									
C214	100	N2200					*		
C215	2.2	5%		NPO-DI-2.2	DTZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C216	2.2	NPO	10%	NPO-DI-2.2	DTZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C217	.001			EF-6-1000	MFT-1000		CCF-102	CT280A	BH-340
C218	2.7	10%							
C219	100	10%		DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C220	.001			EF-6-1000	MFT-1000		CCF-102	CT280A	BH-340
C221	.001			EF-6-1000	MFT-1000		CCF-102	CT280A	BH-340
C222	.001			EF-6-1000	MFT-1000		CCF-102	CT280A	BH-340

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
		R201	47K		R205	1000Ω			
R202	1800Ω				R206	27K			
R203	100K				R207	12K			
R204	33K				R208	4700Ω			



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88C1L7 JFH TUNER

DUMONT MODELS 800-B148, 49, 50
(Ch. 120591A, 92A, 93A)

FOLDER 1

PARTS LIST AND DESCRIPTIONS

WIRING DATA

High Voltage Lead	Use Belden No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use Belden No. 8865 (Single Conductor)
General-use Unshielded Hook-up Wire	Use Belden No. 8530 (Solid) Available in 12 Colors
Power Cord (Interlock Type)	Use Belden No. 8874 (Rubber) or 8895 (Plastic)
3000 Ohm Input Lead	Use Belden No. 8245
3000 Ohm Antenna Lead-In	Use Belden No. 8230 or 8270
Antenna Rotor Cable	Use Belden No. 8484 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	8GM6	V7	Audio Detector	6DT6A
V2	2nd Video IF Amp.	8GM6	V8	Audio Output	8CU5
V3	3rd Video IF Amp. - Video Detector	8A68	V9	Vert. Output	8E7A5
V4	Video Output - Vert. Mult. AGC Keying - Sync Sep. - Noise Limiter	8AW8A	V10	Horiz. Mult.	8FQ7 (8CG7) *
V5	Sound IF Amp.	6BU8	V11	Horiz. Output	6DC6B (8GW6) *
V8		EF94/8AU6	V12	Damper	6DE4 (6DA4, 6CQ4) *
			V13	H. V. Rectifier	1G3GT (1K3) *
			V14	L. V. Rectifier	5U4GB

* Alternate

PICTURE TUBE

ITEM No.	DUMONT PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	NOTES
V15	18XP4	18AVP4/XP4 ①	18XP4 ①		18XP4 ②	① Aluminized ② Silver Screen "85"

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS RCA PART No.	SARKES TARZIAN PART No.	DIODES RAYTHEON PART No.	NOTES
X1		817074				Dual Selenium, Common Cathode Type

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP. VOLT.	DUMONT PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	80 300	925513	AFH4-46-25	CO194 BR1005			TMT-3304 TD-100-50	TVL-3583 TVA-1310
C1B	40 300							
C1C	40 300							
C1D	100 50							
C2A	80 200	925514	AFH3-100-90	BO350 BR20025	XC2-18 QTI-27	FP245 WS342	TMD-2490 TD-200-200	TVL-2872 TVA-1480
C2B	200 200							
C2C	10 300							

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C3	.22 200V		P288N-22	DD-303	BYA10D1	2DP-4-224	2TM-P22
C4	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C5	.22 200V		P288N-22	DD-303	GEM-2022	2TM-P22	
C6	.01 400V		P488N-01	DD-103	BYA10S1	4DP-1-103	GEM-411 4TM-S10
C7	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C8	10 NPO	5%	NPO-DI-10	DTZ-10	C10Q4C	CCTO-100	10TCC-Q10
C9	4.7 NPO		NPO-DI-4.7	DTZ-4R7	C10V47C	CCTO-547	10TCC-V47
C10	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C11	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C12	47 NPO		NPO-DI-47	DTZ-47	C10Q47C	CCTO-470	10TCC-Q47
C13	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110 5HK-S10
C14	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C15	470		BPD-00047	DD-471	BYA10T47	CCD-471	B-347 10TS-T47
C16	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C17	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C18	390		DI-390	LIOT39	CCD-391	B-339 10TS-T39	
C19	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C20	10	10%	DI-10	DD-100	LIQ1	CCD-100	GP410
C21	4.7	10%					
C22	8.2	10%					
C23	.001		DI-8.2	BPD-001	DD-102	BYA10D1	CCD-102
C24	.022 400V		P488N-022	DD-303	CUB4S22	4DP-2-223	GEM-4122 4TM-S22
C25	.1 400V		P488N-1	DD-103	CUB4P1	4DP-3-104	GEM-401 4TM-P10
C26	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147 4TM-S47
C27	.022 400V		P488N-022	DD-303	CUB4S22	4DP-2-223	GEM-4122 4TM-S22
C28	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247 5HK-D47
C29	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247 5HK-D47
C30	820	10%	DI-820	DD-821	LIOT82	CCD-821	GP382 10TS-T82
C31	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110 5HK-S10
C32	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110 5HK-S10
C33	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110 5HK-S10
C34	.047 1000V		P1068N-047	DD-503	CUB10S47	16DP-5-473	GEM-10147 10TM-S47
C35	.01 1000V		PPD-01	DD-103	BYA10S1	CCD-103	B-110 5HK-S10
C36	.01 400V		P488N-047	DD-103	CUB4S1	4DP-1-103	GEM-411 4TM-S10
C37	.015 1000V		BPD-015	DD-303	BYA10S15	B-115 5HK-S15	
C38	.022 400V		P488N-022	DD-303	CUB4S22	4DP-2-223	GEM-4122 4TM-S22
C39	.022 400V		P488N-022	DD-303	CUB4S22	4DP-2-223	GEM-4122 4TM-S22
C40	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247 5HK-D47
C41	.047 400V		P488N-047	DD-503	CUB4S47	4DP-2-223	GEM-4147 4TM-S47
C42	.0047 400V		P488N-0047	DD-503	CUB6D47	6DP-1-472	GEM-6247 6TM-D47
C43	.0039 1000V	10%	FI10D33	DD-403	LIQ10D33	6DP-1-392	GEM-624 10TM-D40
C44	.001 1000V	10%	DI-1000	DD-102	LIQ1000	CCD-102	GP-210 5HK-D10
C45	.033 900V		P688N-033	DD-403	CUB6S33	6DP-3-333	GEM-6133 6TM-S33
C46	.1 400V		P488N-1	DD-403	CUB4P1	4DP-1-104	GEM-401 4TM-P10
C47	68 3000V		HVD-30-68	DD30-680	HVB30Q68	3CCD-680	

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C48	.82 10%		DI-82	DD-820	L10Q82	CCD-820	GP-482 10TS-Q82
C50	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C51	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C52	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C53	.047 200V		P288N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147 4TM-S47
C54	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C55	100 1000V 10%		468LS-HV-100	DD-101	22R5T1	VCM-20-101K	MCK310 YFM-31
C56	.0047 600V 10%		BE8D47	DD-472	CUB6D47	6DP-1-472	GEM-6247 6TM-D47
C57	100 1000V 10%		468LS-HV-100	DD-101	22R5T1	VCM-20-101K	MCK310 YFM-31
C58	15-180						
C59	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C60	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C61	.0047 400V		P488N-0047	DD-472	CUB6D47	6DP-1-472	GEM-6247 6TM-D47
C62	.1 400V		P488N-1	DD-471	LIQ147	4DP-1-104	GEM-401 4TM-P10
C63	470 1000V 10%		DI-470	DD-471	LIQ147	4DP-1-104	GP347
C64	120 5000V 5%		HVD-60-120	DD60-121	HVB50T47	CCD-121	6GA-T12
C65	.001 1000V		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C66	.047 1000V		P1068N-047	DD-503	CUB10S47	16DP-5-473	GEM-4147 10TM-S47
C67	.033 600V		P688N-033	DD-403	CUB6S33	6DP-3-333	GEM-6133 8TM-S33
C68	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210 5HK-D10
C69	.1 600V		P688N-1	DD-102	CUB6P1	6DP-1-104	GEM-601 6TM-P10

† Alternate Value

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	DUMONT PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Power On-Off Switch	1meg	390826	APL-70, AK-33		B13-137, SK-8	PP18A, D837
R2A	Brightness	500K	390628	F1-500K, FF5015, RI-2.5meg			
R3	Contrast	600K	390627			QT-1432	UE4317
R4A	Vertical Hold	1.5meg	390629	F1-1.5meg, FF5015, RI-500K		QT-1433	FA62R, SF3000
R5A	Local-Distance (AGC)	5meg	390630			QT-1439	UE4318
R6	Horizontal Hold	10K					
R6	Horizontal Drive	30K	390825				

* "STA-LOC" Equivalent: FA551, OSR000A, RU281, 1K825. † "STA-LOC" Equivalent: FA155L, OSR000A, RU551, 1K825.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R7	15K		R51	68K	
R8	22K		R52	39K	
R9	470K		R53	39K	
R10	47K		R54	10K 1W	
R11	1000K		R55	100K	
R12	88K		R56	82K	
R13	8800K 2W		R57	5800K	
R14	470K		R58	4.7meg	
R15	47K		R59	1.2meg	
R16	47K		R60	2.2meg	
R17	22K		R61	22K	
R18	1500K		R62	22K 1W	
R19	470K		R63	18K 1W	
R20	470K		R64	220K 1W	
R21	180K		R65	270K 1W	
R22	8800K		R66	560K	
R23	4700K		R67	560K	
R24	39K		R68	1meg	
R25	12K 1W		R69	1meg	
R26	15K		R70	220K	
R27	560K		R71	3300K	
R28	5000K 7.5W	PW10-5000	R72	1meg	
R29	8800K	8W-SQ-5000	R73	100K	
R30	120K		R74	15K 1W	
R31	22K		R75	56K	
R32	2700K		R76	1200K	
R33	47K		R77	100K	
R34	100K		R78	47K	
R35	330K		R79	5600K	
R36	220K		R80	680K	
R37	1.5meg		R81	100K	
R38	15meg		R82	100K	
R39	470K		R83	6800K 2W	
R40	470K		R84	3300K 1W	
R41	220K		R85	1K	
R42	470K		R86	10K	
R43	150K		R87	150K	
R44	560K		R88	220K	
R45	3300K		R89	470K	
R46	390K		R90	220K 7W	PW10-220
R47	200K		R91	220K	7W-SQ-220
R48	1.2meg 5%		R92	100K	
R49	470K 5W	PW5-470	R93	22K 1W	
R50	1.2meg 5%				

* Alternate

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	DUMONT PART No.	REPLACEMENT DATA
K1	Sync Takeoff	220mmf, .01mfd, 470K, 2.2meg	923059	
K2	Vertical Integrator	.002mfd, .0047mfd, .005mfd, .005mfd, 8200K, 8200K, 22K	923159	

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		DUMONT PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman PART No.	
L1	47.25MC Trap	720315				TA277	
L2	1st Video IF	720316					
L3	RF Choke (4.4uh)	705042	BC-564	4608	RTC-8518	T858	
L4	2nd Video IF	720316				T272	
L5	2nd Video IF	720316				T272	
L6	3rd Video IF	720316				T272	
L7	4th Video IF	720318				T272	
L8	RF Choke (4.4uh)	705040	BC-564	4608	RTC-8518	T858	
L9	RF Choke (1.6uh)	705041	BC-562	4604	RTC-8518	T856	
L10A	Peaking (100uh)	708361-A	TV-194	6112	RTC-8574	T341	
B	Peaking (680uh)		TV-206	6148	RTC-8583	T356	
L11A	4.5MC Trap	720364-A	TV-158	7102-P			
B	Sound Takeoff						
L12	Peaking (200uh)	708370	TV-197	6154	RTC-8586	T345	
L13	Peaking (440uh)	708351	TV-202	6136	RTC-8579	T351	
L14	Sound IF	720337					
L15	Quadrature	720404	TV-234			T269	
L16	RF Choke (10uh)	705021	EC-566	4602	RTC-8522	T860	
L17	Flt. Choke (.26uh)	705031		4584	RTC-8512	T957	
L18	Flt. Choke (.26uh)	705031		4584	RTC-8512	T957	

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		DUMONT PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordorson PART No.	Triad PART No.	Workman PART No.	
L19	Horiz. Stabilizer	718136A	6334-G					T139	

RECEIVER PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBIER PART No.	EMERSON PART No.
C3	.02	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C4	.470	+80-20%	BPD-02	DD-471	BYA0047M	CCD-471
C5	.02	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C6	.470	+80-20%	BPD-02	DD-471	BYA0047M	CCD-471
C7	.02	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C8	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C9	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C10	.02	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C11	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C12	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C13	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C14	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C15	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C16	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C17	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C18	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203
C19	.001	+80-20%	BPD-02	DD-203	BYB652	CCD-203

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	REMARKS	REPLACEMENT DATA			
			DUMONT PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1	Sensitivity	5000Ω	996502	TT-10, or (BX-10)	A47-5000-Ω, 50K-3	B11-114, TM4 or 35U11, CFB, 88011

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			WORKMAN PART No.	IRC PART No.	WORKMAN PART No.	REMARKS
R2	10K					
R3	100K					
R4	2200Ω					
R5	470Ω					
R6	2.2meg					
R7	100K					
R8	470Ω					
R9	100K					
R10	470Ω					
R11	470Ω					
R12	470Ω					
R13	470Ω					
R14	2.2meg					
R15	47K					
R16	2.2meg					

* Alternate Value

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		DUMONT PART No.	Miller PART No.	Sencor PART No.	Workman PART No.
L1	40KC Interstage Discriminator	720425			
L2		706388			

MISCELLANEOUS

ITEM No.	PART NAME	DUMONT PART No.	NOTES
M1	Transducer	825004A	
M2	Relay		
M3	Relay		



The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LA594R

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the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1962 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord Use BELDEN No. 17006 (Plastic) or 17028 (Rubber) or 17009 (Plastic) or 17029 (Rubber) or 8874 (Rubber) or 8895 (Plastic)

TRANSISTOR TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.		
X3	2N408	Oscillator	GE-2	2N408	2N408	PNP	See 471345

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	CAP. VOL.	DUMONT PART No.	REPLACEMENT DATA				NOTES
				AEROVOX PART No.	CORNELL DUBIER PART No.	GENERAL ELECTRIC PART No.	MALORY PART No.	
C30	10	10		PTT-39	NLW10-25	MTI-5	MLV10-10	See 471345

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				NOTES
			AEROVOX PART No.	CORNELL DUBIER PART No.	EMERSON PART No.	MALORY PART No.	
C31	.005		BPD-005	DD-503	BYA0005	CCD-503	
C32	.05	30V +80-20%	BPD-05	DD-503	BYA0005	CCD-503	
C33	280	±5%	1468LS-22	DD-220		CM-2B-220K	
C34	22	±10%					
C35	6-60						

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				NOTES
			WORKMAN PART No.	IRC PART No.	WORKMAN PART No.	REMARKS	
R31	10K						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		DUMONT PART No.	Miller PART No.	Sencor PART No.	Workman PART No.	
L3	Osc.	738185				

BATTERIES

ITEM No.	VOLTAGE	DUMONT PART No.	REPLACEMENT DATA				NOTES
			BURGESS PART No.	EVEREADY PART No.	MALORY PART No.		
M4	4.2V	818130	"A"	"B"	"A"	"B"	

MISCELLANEOUS

ITEM No.	PART NAME	DUMONT PART No.	NOTES
M5	Switch		
M6	Push-button Tuner Control		
M7	Push-button Volume	825007	

DUMONT REMOTE CONTROL RECEIVER 471345, TRANSMITTER 471347

SET 608 FOLDER 1-A

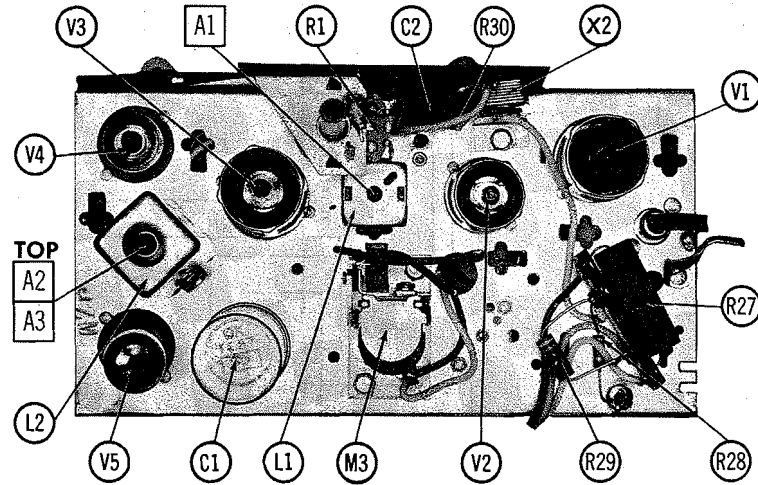
PHOTOFACT® Folder

with CIRCUITRACE®

DUMONT REMOTE CONTROL RECEIVER 471345, TRANSMITTER 471347

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 608 FOLDER 1. File this Folder with the TV Folder in the yellow filing jacket provided.



TUBES
TRANSISTOR
POWER SUPPLY
RATING

Five (Remote Control Receiver)
One (Remote Control Transmitter)
110-120 Volts AC, 60 Cycle (Remote Control Receiver)
4.2V Battery (Remote Control Transmitter)
Remote Control Receiver: 20 Watts, .4 Amp. @ 117 Volts
Remote Control Transmitter: 37ma. @ 4.2 Volts

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Allow a 20 minute warm-up period for the receiver and test equipment.
Use only enough generator output to provide a usable indication.
Suggested Alignment Tools: A2, A3 GENERAL CEMENT #8282, 8606, 8606L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545
A1 GENERAL CEMENT #8607, 9291, 9294
WALSCO #2520, 2522, 2523, 2524, 2534, 2537, 2538

REMOTE CONTROL RECEIVER ALIGNMENT

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CONNECT VTVM	ADJUST	REMARKS
1.	High side to Point \textcircled{B} . Low side to chassis.	40KC	DC Probe to Point \textcircled{A} . Common to Chassis.	A1	Adjust for maximum output.
2.	"	"	DC Probe to Point \textcircled{C} . Common to Point \textcircled{D} .	A2, A3	"
3.	"	"	DC Probe to Point \textcircled{E} . Common to Chassis.	A3	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Retouch Steps 1 and 2.

REMOTE CONTROL TRANSMITTER ALIGNMENT

The Remote Control Receiver must be properly aligned before proceeding with the transmitter alignment.
Check batteries for proper voltage of at least 4.2 volts.
Connect a DC Probe of a VTVM to Point \textcircled{B} . Common to chassis. Adjust A4 for maximum deflection.
Place Transmitter unit approximately 15 feet from front of Receiver Transducer and alternately depress Volume and Channel Switch while slowly increasing the distance between Transmitter and Receiver.
If either switch ceases to operate, adjust A5 until normal operation resumes. If adjustment of A5 was required, readjust A4 for maximum deflection.

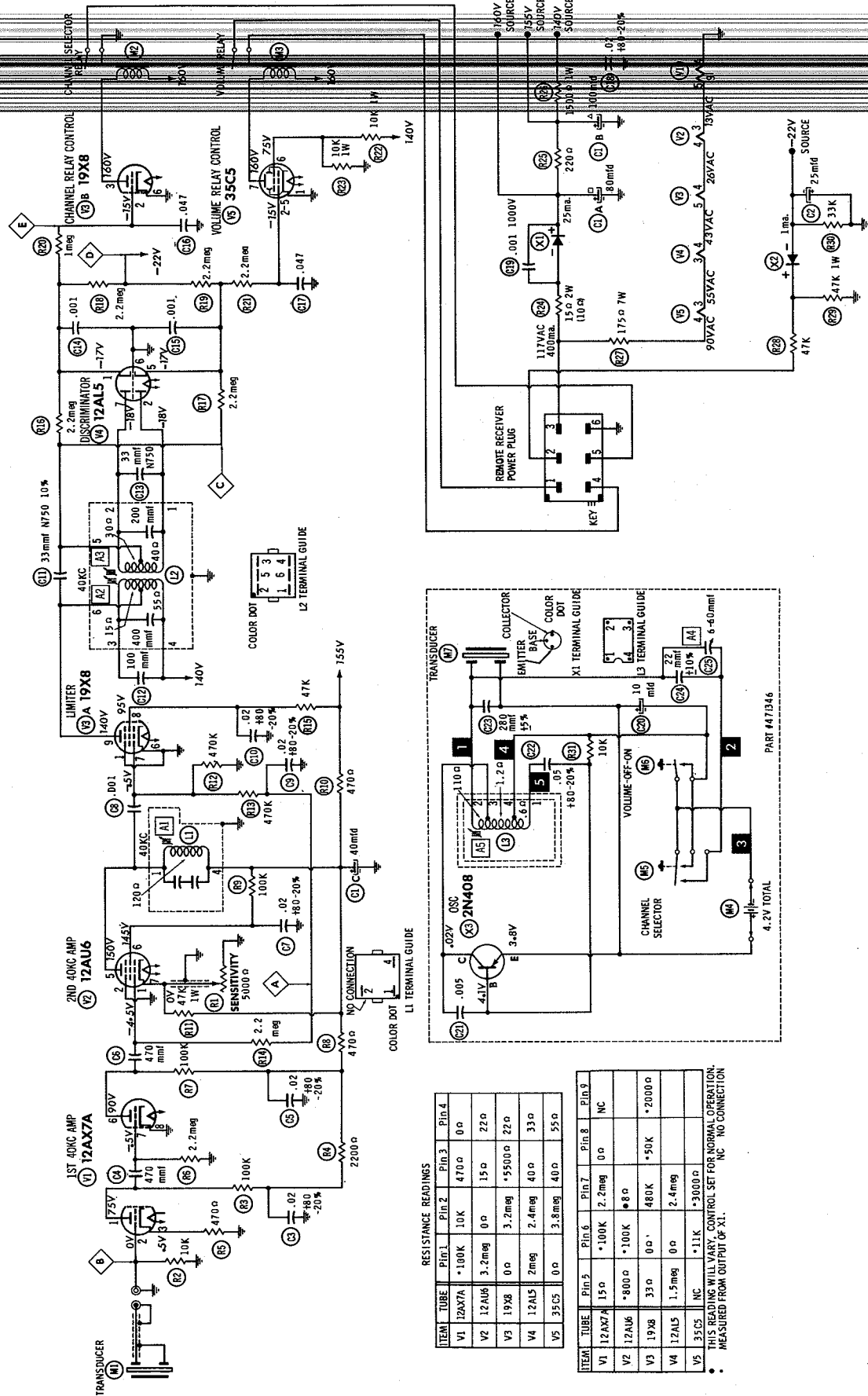
DUMONT REMOTE CONTROL RECEIVER 471345, TRANSMITTER 471347

SET 608 FOLDER 1-A

DATE 12-62

SET 608

FOLDER 1-A



RESISTANCE READINGS

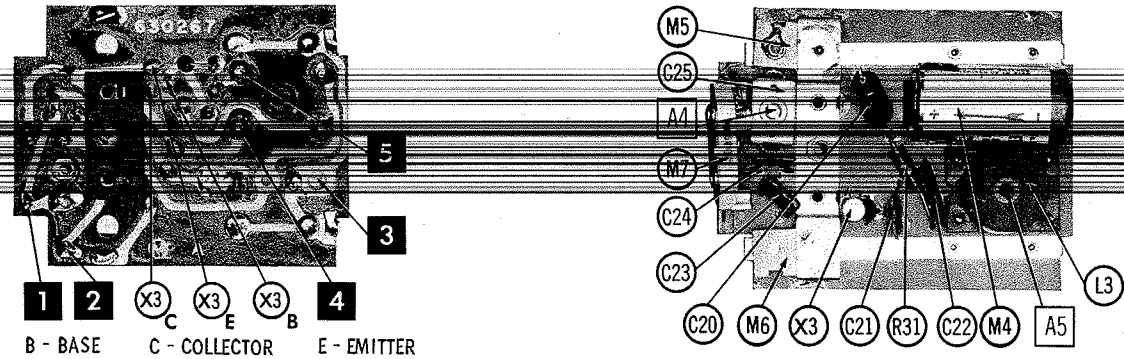
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4
V1	12AX7A	*100K	10K	470Ω	0Ω
V2	12AU6	3.2meg	0Ω	15Ω	22Ω
V3	19X8	0Ω	3.2meg	*5500Ω	22Ω
V4	12AL5	2meg	2.4meg	40Ω	33Ω
V5	35C5	0Ω	3.3meg	40Ω	55Ω

ITEM	TUBE	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7A	15Ω	*100K	2.2meg	0Ω	NC
V2	12AU6	*800Ω	*100K	*100K	*8Ω	
V3	19X8	33Ω	0Ω	480K	*50K	*2000Ω
V4	12AL5	1.5meg	0Ω	2.4meg	0Ω	
V5	35C5	NC	*11K	*3000Ω		

THIS RESISTANCE WILL VARY CONTROL SET FOR NORMAL OPERATION. MEASURED FROM OUTPUT OF X1.

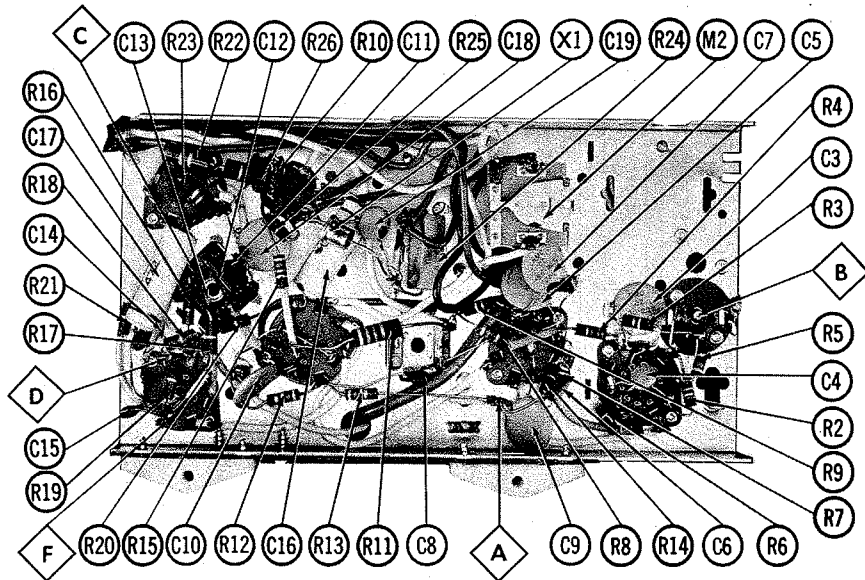
RECEIVER 471345, TRANSMITTER 471347

A PHOTOFACT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE** © Howard W. Sams & Co., Inc. 1962



A Howard W. Sams **CIRCUITRACE** Photo

TRANSMITTER



RECEIVER—BOTTOM VIEW

RECEIVER PARTS LIST AND DESCRIPTIONS

AMPEREX			GENERAL ELECTRIC			RCA			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	40KC Amp.	12AX7A	V4	Discriminator	12AL5									
V2	40KC Amp.	12AU6	V5	Volume Relay Control	35C5									
V3	Limiting-Channel Relay Control	19X8												

POWER RECTIFIERS & SIGNAL DIODES						
ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES	NOTES
			RCA PART No.	SARKES TARZIAN PART No.	RAYTHEON PART No.	
X1	.025A	817086	1N3194	40H		Silicon Selenium
X2	.001A	817084	1N3193	Model 10		

ELECTROLYTIC CAPACITORS									
ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	DUMONT PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	80	175	①	PWH3-13-70		XC3-45.1			TVLS3454.8 *
B	100	175							
C	40	160							
C2	25	50		SRE50V10	NLW25-50	MT1-12	TT50X35	MLV25-50	TE-1906

① Some versions may use a 40mfd, 100mfd, 80mfd @ 160V (Part #925482).
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

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DUMONT REMOTE CONTROL
RECEIVER 471345, TRANSMITTER 471347

FOLDER 1-A