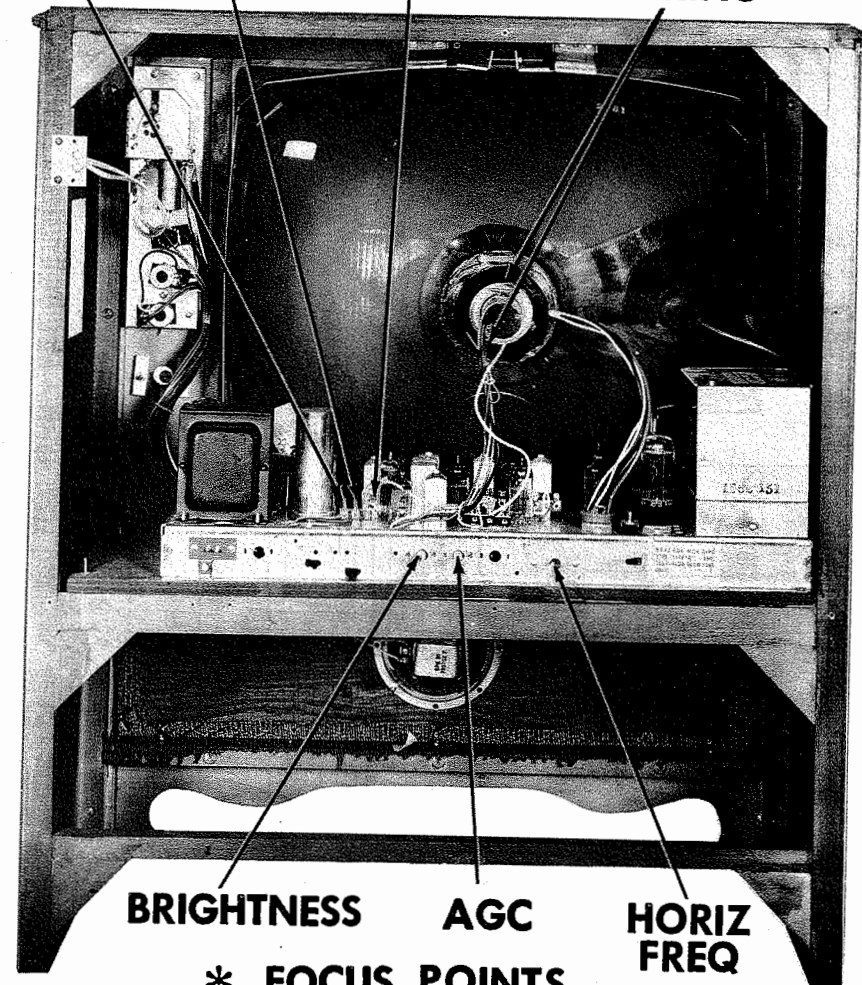


*250V * 470V CENTERING



BRIGHTNESS **AGC** **HORIZ FREQ**
* **FOCUS POINTS**
CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably with a test pattern.
Set the Brightness and Contrast for a normal picture.
Turn the Horizontal Hold (Freq. Slug) clockwise until the picture loses

sync. It may be necessary to switch off channel and back again for picture to lose sync.
Turn the Horizontal Hold slowly counterclockwise until the picture just falls into sync.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 5 push-on type knobs on front panel.
2. Remove 9 screws in rear cover. Remove rear cover.
3. Remove 5 chassis bolts.

4. Remove 3 (1/4") nuts holding control bracket. Remove bracket.
5. Disconnect picture tube socket, yoke plug, hi voltage lead, and unsolder speaker leads.
NOTE: Speaker leads must be unsoldered at output transformer.
6. Pull chassis straight out.

PICTURE TUBE REMOVAL

It is necessary to remove the chassis for picture tube removal.

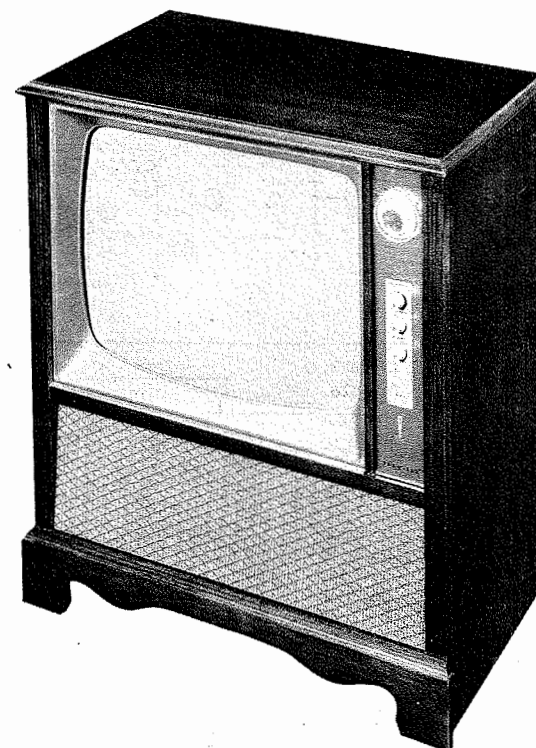
TRAV-LER MODELS 23K6180F,
M, W (Ch. 1062-151)

FOLDER 1
SET 557

PHOTOFACT® Folder



TRAV-LER MODELS 23K6180F,
M, W (Ch. 1062-151)



MODEL 23K6180M

TRADE NAME	Trav-Ler Models 23K6180F, M, W (Chassis 1062-151).
MANUFACTURER	Trav-Ler Radio & Television Corp., 571 West Jackson Blvd., Chicago 6, Illinois
TYPE SET	Television Receiver
TUBES	VHF - Seventeen
POWER SUPPLY	110-120 Volts AC, 60 Cycle
TUNING RANGE	Channels 2 thru 13 VHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
RATING	190 Watts, 1.75 Amp. @ 117 Volts AC

SERVICING IN THE FIELD

PICTURE TUBE REMOVAL

It is necessary to remove chassis for picture tube removal.

SAFETY GLASS REMOVAL

Remove 3 screws holding the trim strip at the top edge of the safety glass. Tilt glass out and remove.

FUSE

A 3/4 Amp. fuse is used for low voltage supply protection. (For location, see "Tube Placement Chart".)

A fuse wire is used for filament protection. (For location, see M2 in photo "Chassis - Bottom View".)

TUNER OSCILLATOR ADJUSTMENT

To touch up the VHF Oscillator, remove Channel Selector and Fine Tuning knobs.

AGC

The AGC may be varied by means of an AGC Control. (For location, see "Tube Placement Chart".)

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 "Cabinet - Rear View".)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The Horizontal Frequency Slug is used for the Horizontal Hold. (For location, see "Tube Placement Chart".)

CENTERING

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

TRAV-LER MODELS 23K6180F,
M, W (Ch. 1062-151)

SET 557 FOLDER 1

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 LA147

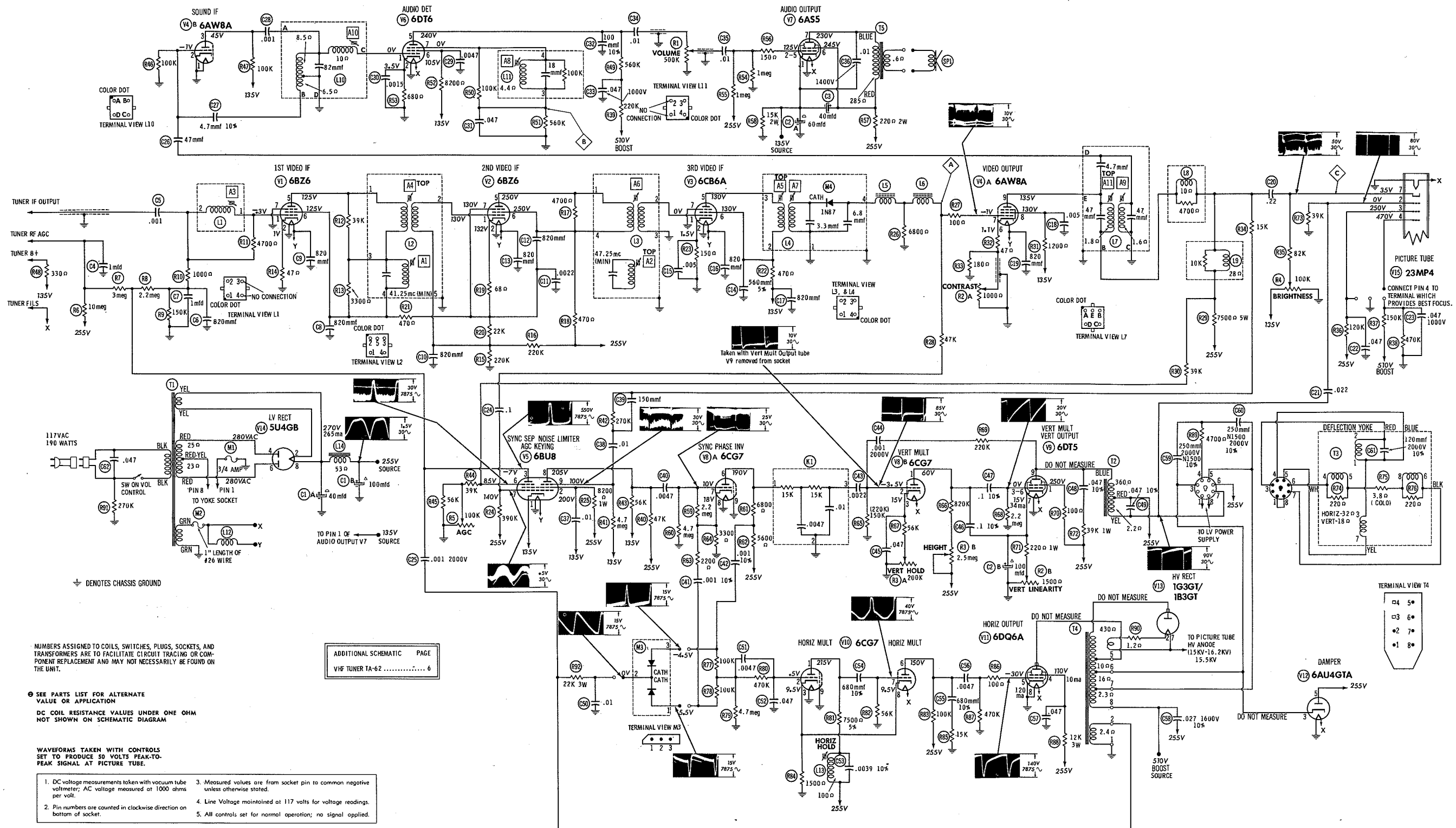


the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1961 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

DATE 12-61

SET 557

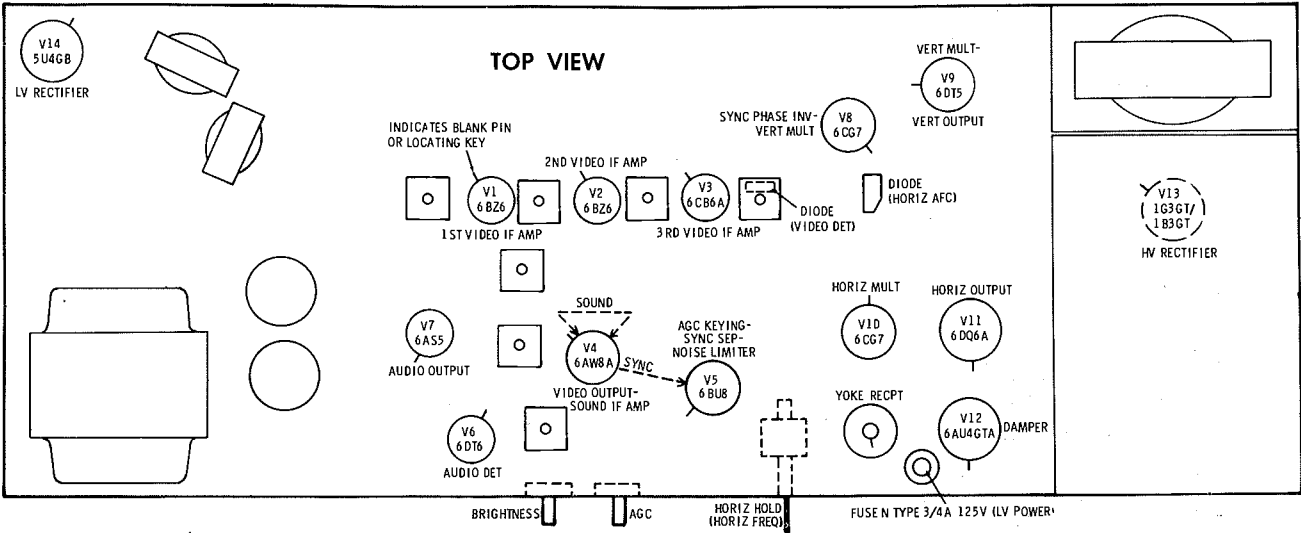
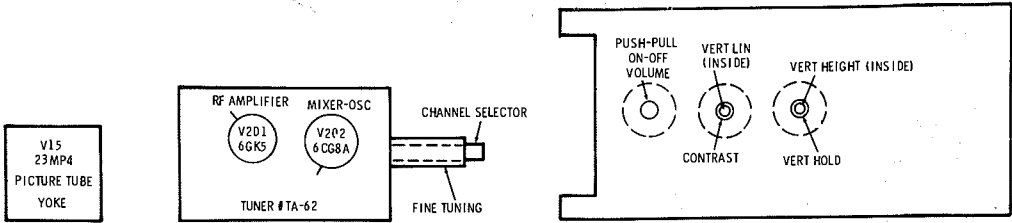
FOLDER 1



TRAV-LER MODELS 23K6180F,
M, W (Ch. 1062-151)

FOLDER 1

TUBE PLACEMENT CHART

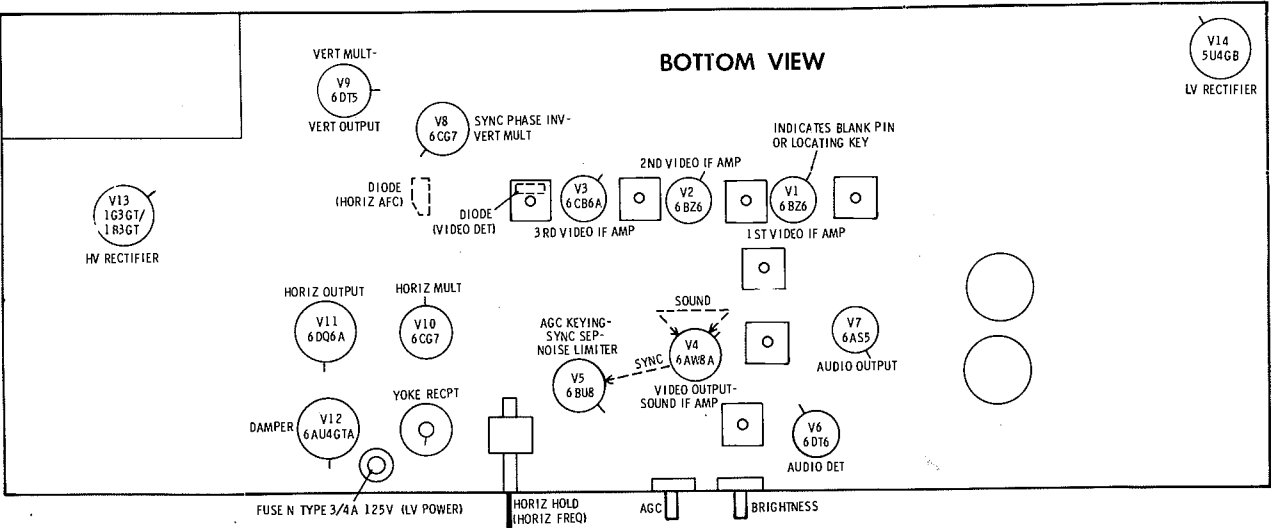
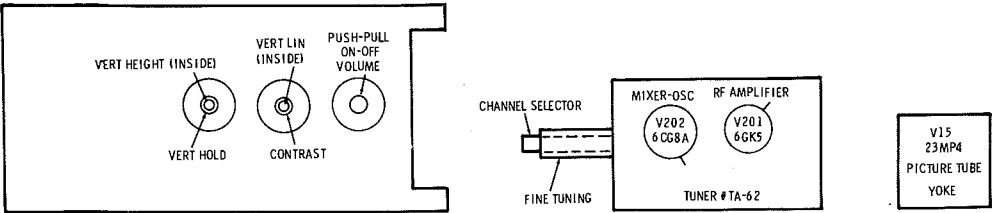


TRAVLER MODELS 23K6180F,
M, W (Ch. 1062-151)

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BZ6	150K	47Ω	FIL	FIL	Δ540Ω	Δ540Ω	0Ω		
V2	6BZ6	120K	†180K	FIL	FIL	†520Ω	†520Ω	Δ68Ω		
V3	6CB6A	.1Ω	150Ω	FIL	FIL	Δ470Ω	Δ470Ω	0Ω		
V4	6AW8A	0Ω	100K	Δ100K	FIL	FIL	●90Ω	6900Ω	Δ1200Ω	†7600Ω
V5	6B8U	Δ0Ω	†8200Ω	2meg	FIL	FIL	●30K	†390K	†40K	Δ4.7meg
V6	6DT6	18Ω	680Ω	FIL	FIL	†780K	Δ8200Ω	560K		
V7	6AS5	†12K	NC	FIL	FIL	500K	†270Ω	†555Ω		
V8	6CG7	●†1.8meg	150K	●75K	FIL	FIL	†12K	1.6meg	3300Ω	0Ω
V9	6DT5	†150Ω	NC	2.2meg	FIL	FIL	NC	●360Ω	NC	†410Ω
V10	6CG7	†7500Ω	1meg	1500Ω	FIL	FIL	†100K	56K	1500Ω	0Ω
V11	6DQ6A	NC	FIL	NC	†12K	470K	TP	FIL	0Ω	TOP CAP †10Ω
V12	6AU4GTA	NC	NC	620K	NC	†53Ω	NC	FIL	FIL	
V13	163G1/183GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †440Ω
V14	5U4GB	NC	†40K	NC	25Ω	NC	23Ω	NC	†40K	
V15	23MP4	FIL	39K	†120K	†150K	NC	NC	●100K	FIL	
V201	6GK5	0Ω	2.8meg	FIL	FIL	Δ1500Ω	0Ω	0Ω		
V202	6GK5A	4700Ω	Δ5000Ω	0Ω	FIL	FIL	Δ1300Ω	Δ330Ω	0Ω	220K

- Δ 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.
Δ MEASURED FROM PIN 3 OF V12.
NC NO CONNECTION
- MEASURED FROM PIN 1 OF V7.
MEASURED FROM PIN 2 OF V2.
TIE POINT



TUBE PLACEMENT CHART

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 Wire (Fil.), Fuse (LV Power), V14

SWEEP FAILURE
No raster, has sound V10, V11, V12, V13, V15
No vertical deflection V8, V9
Poor vert. linearity or foldover V8, V9
Poor horiz. linearity or foldover V10, V11, V12
Narrow picture V10, V11, V12, V14
Vert. off freq. V8, V9
Horiz. off freq. Diode (Horiz.AFC), V10

LOSS OF PICTURE OR SOUND
No pic, no sound, has raster V1, V2, V3, Diode (Video Det.), V4, V7
No pic, no sound, has snow V201, V202, V1
No pic, has sound, has raster V4, V15
Has pic, no sound V4, V6, V7
Overloaded picture V5

SYNC FAILURE
No vert. sync V5, V8
No horiz. sync V5, V8
No vert. or horiz. sync V5, V8

FOLDER 1

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.
Suggested Alignment Tools: GENERAL CEMENT #8282, 8806, 8806L, 9285
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Set Contrast fully clockwise.
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Direct	Place a thin insulated metal strip between the Mixer-Osc. tube (V202), and tube shield. Connect the high side of sweep generator to the metal strip. Low side to chassis.	44MC (10MC Swp)	41.25MC	Any non-interfering channel	Vert. Amp. thru 47K to point A. Low side to chassis. (Across Video Det. load)	A1	Adjust to place marker in 41.25MC trap notch. (See Fig. 1).
2. "	"	"	47.25MC	"	"	A2	Adjust to place marker in other trap notch.
3. "	"	"	42.75MC 45.75MC	"	"	Mixer Plate Coil & A3 thru A7	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Adjust Mixer Plate Coil and A3 for maximum gain. A4 and A5 to shape high frequency side of response curve. A6 and A7 is adjusted to shape low frequency side.

SOUND IF ALIGNMENT

Connect an output meter across speaker voice coil.
Connect the DC probe of the VTVM to point B. Common to chassis. Tune in a strong air signal and adjust A8 for maximum output. If two peaks occur during this adjustment, use the one resulting in the highest reading on the VTVM.
Reduce the signal strength by disconnecting the antenna. Adjust A9 and A10 for maximum undistorted sound. Further reduce the signal by moving the antenna lead further away. Retouch A9 and A10 for maximum undistorted sound. Repeat entire procedure if necessary.

4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
4. .05mfd	High side to point A. Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	AC probe to point C. Common to chassis. (Use 0-10VAC scale).	A11	Adjust for MINIMUM deflection.

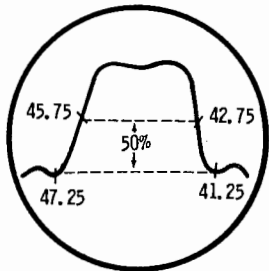
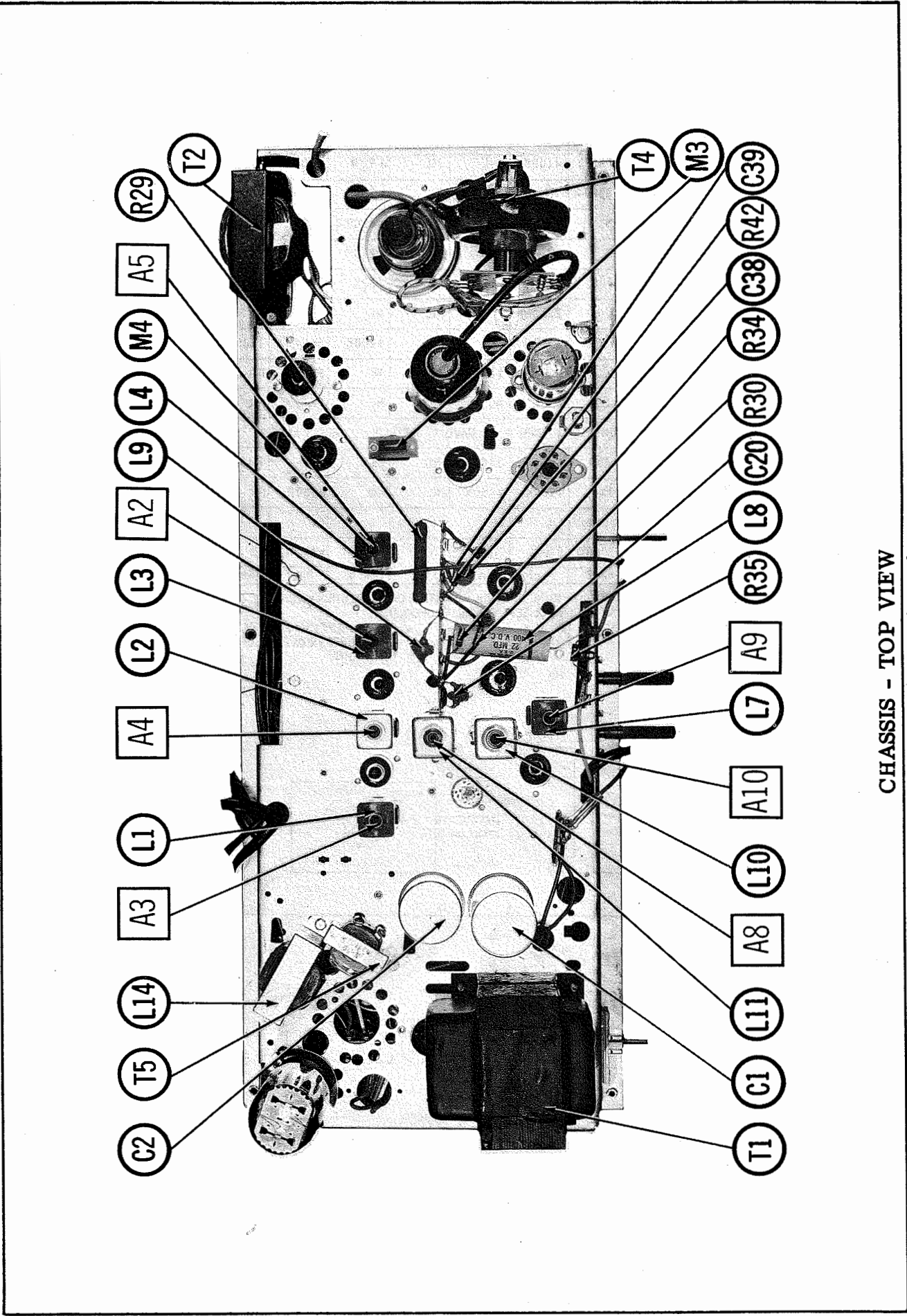
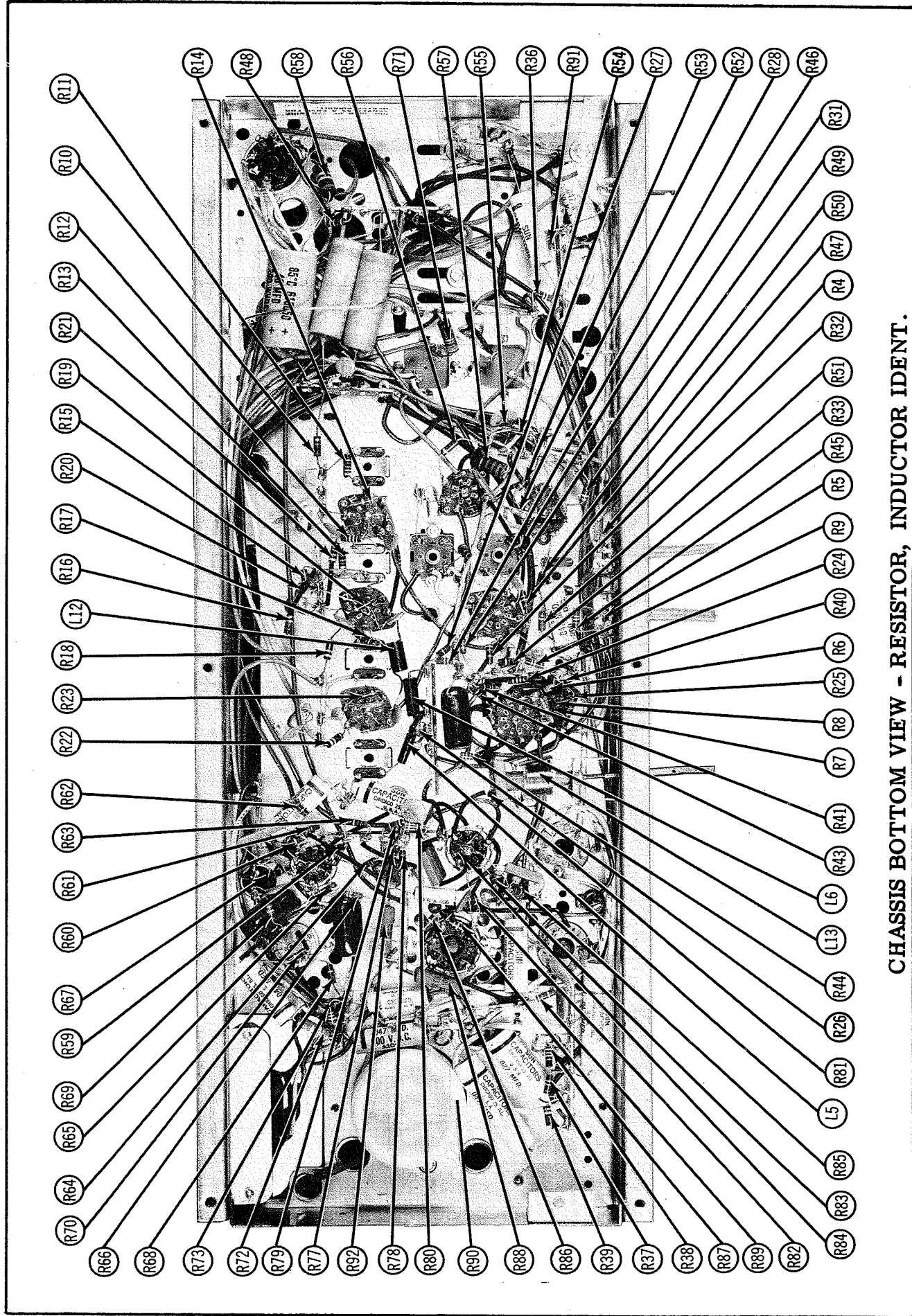
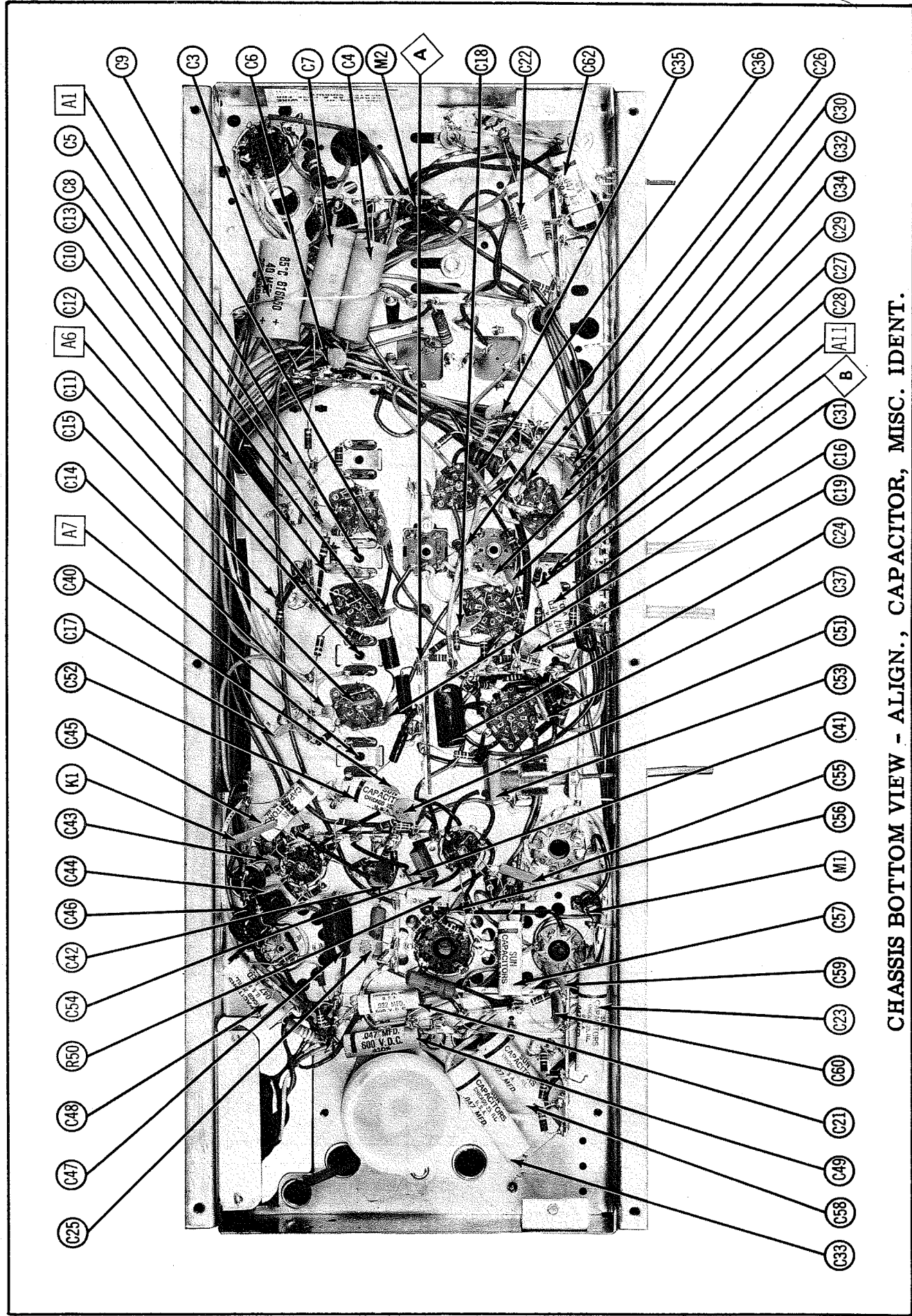


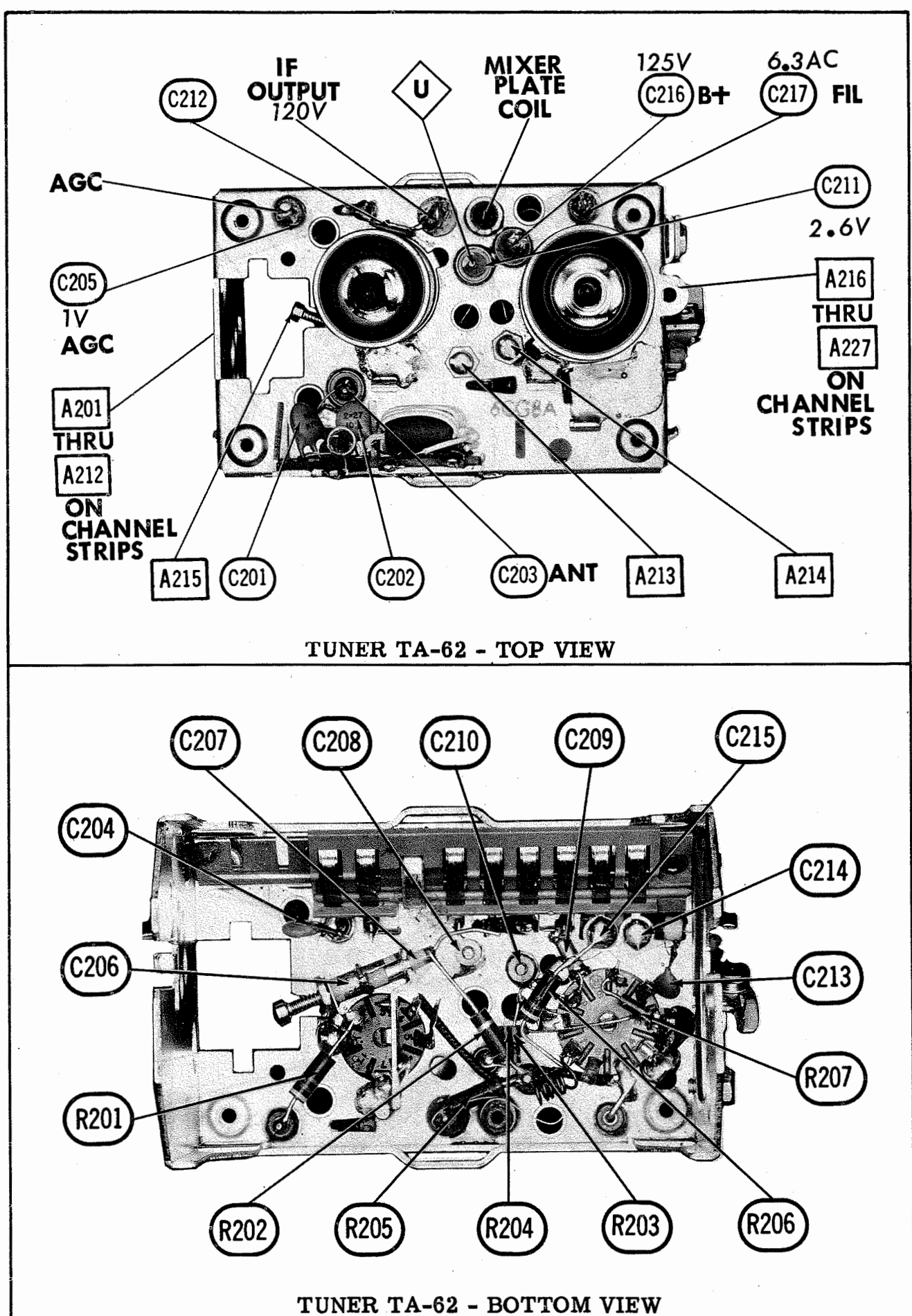
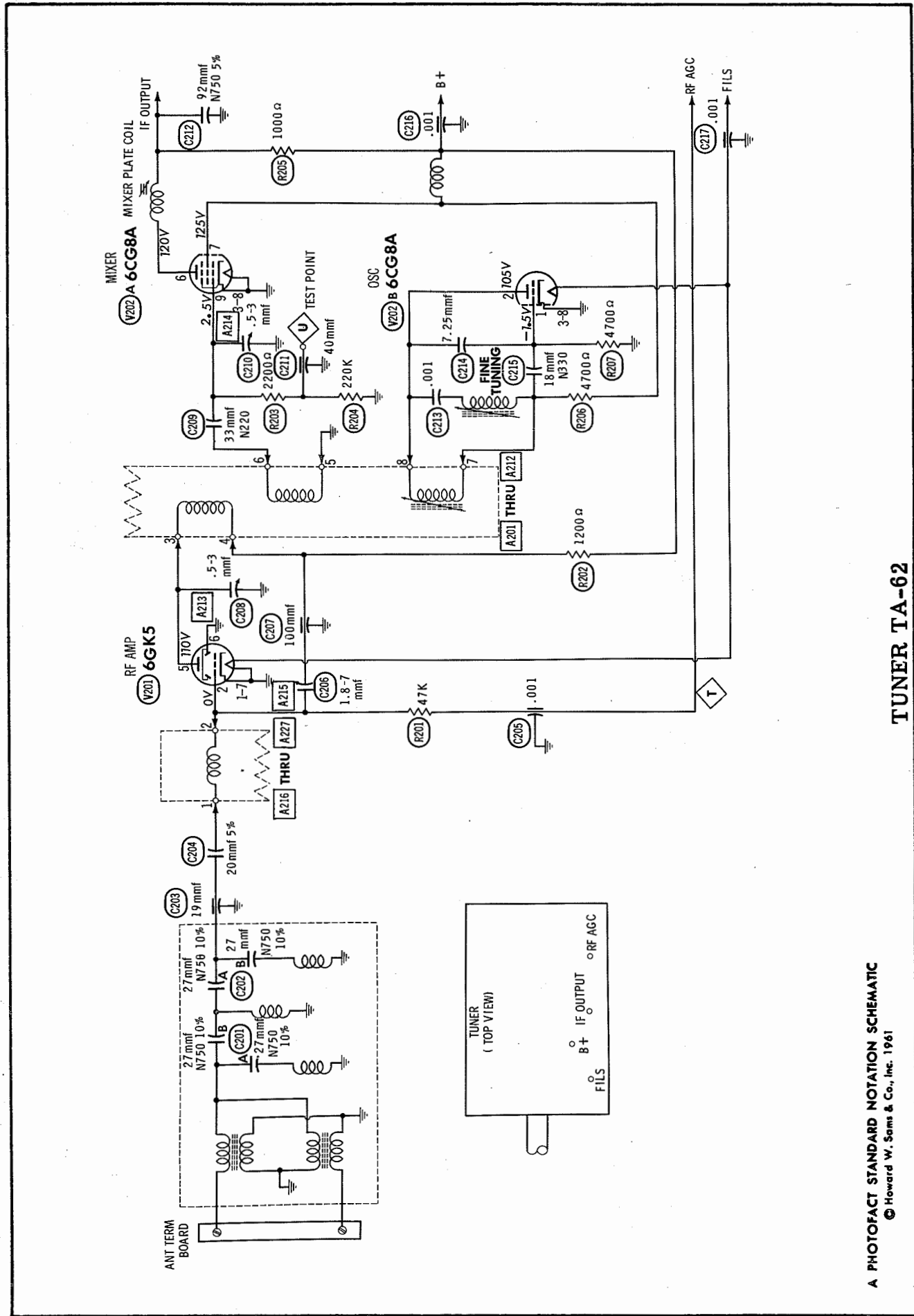
FIG 1



TRAVLER MODELS 23K6180F,
M, W (Ch. 1062-151)
CHASSIS - TOP VIEW



TRAVLER MODELS 23K6180F,
M, W (Ch. 1062-151)



PARTS LIST AND DESCRIPTIONS (Continued)
CABINETS & CABINET PARTS

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

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8865 (Single Conductor)
	8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
	8824 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8484 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

TUNER PARTS LIST AND DESCRIPTIONS
TUBES

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

FIXED CAPACITORS

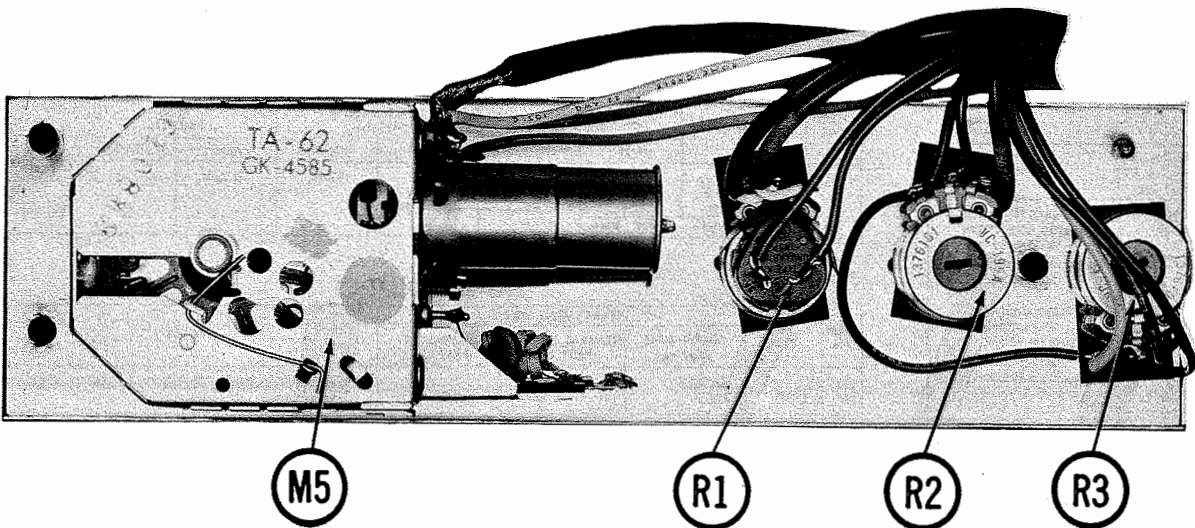
ITEM No.	RATING	REMARKS	REPLACEMENT DATA							
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.		
C201A	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27		
B	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27		
C202A	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27		
B	27 N750 10%		N750-DI 25	TCN-27	C10Q27U	CCTN-270	CN7-427	10TCU-Q27		
C203	19									
C204	20 5%		NPO-DI 20	DTZ-20	C10Q2C	CCTO-200	CNO-422	10TCC-Q20		
C205	.001		EF-001	MFT-1000		CCF-102	CT280A			
C206	1.8-7			829-7						
C207	100		EF-0001	MFT-100						
C208	.5-3			829-3		CV-1	CT565			
C209	33 N220					CV-1	CT565	10TCR-Q33		
C210	.5-3									
C211	40									
C212	92 N750 5%									
C213	.001		BPD-001	TCN-91	C10Q91U	CCD-102	GP210	10TS-D10		
C214	7.25			DD-102	BYA10D1					
C215	18 N330							10TCS-Q18		
C216	.001		EF-001	MFT-1000		CCF-102	CT280A			
C217	.001		EF-001	MFT-1000		CCF-102	CT280A			

* 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 TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R201	47K				R205	1000Ω			
R202	1200Ω				R206	4700Ω			
R203	2200Ω				R207	4700Ω			
R204	220K								



CONTROL PANEL

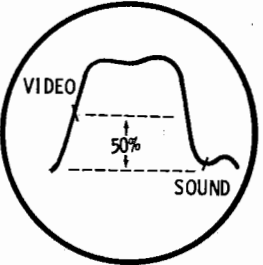
TUNER ALIGNMENT INSTRUCTIONS

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.
Suggested Alignment Tools: A201 thru A212 ... GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8987
WALSCO #2531
A213 thru A215 ... GENERAL CEMENT #5000, 5003, 8276, 8290
WALSCO #2512, 2525

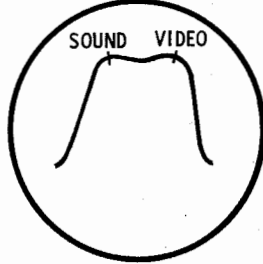
VHF OSCILLATOR ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Set the Fine Tuning to the center of its range.
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.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	213MC	211. 25MC	13	Vert. Amp. thru 47K across Video Det. load.	A201	Adjust to place sound marker in trap notch as in Fig. 201. Video marker should fall at 50%. 
		207MC	205. 25MC	12		A202	
		201MC	199. 25MC	11		A203	
		195MC	193. 25MC	10		A204	
		189MC	187. 25MC	9		A205	
		183MC	181. 25MC	8		A206	
		177MC	175. 25MC	7		A207	
		85MC	83. 25MC	6		A208	
		79MC	77. 25MC	5		A209	
		69MC	67. 25MC	4		A210	
		63MC	61. 25MC	3		A211	
		57MC	55. 25MC	2		A212	

VHF RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.
Use 10MC sweep unless otherwise noted.
Coils not containing adjustable cores are adjusted by expanding or compressing coil turns.
Connect the negative lead of a 4.5 volt bias supply to point Ⓢ. Positive to chassis.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
2. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	195MC	193. 25MC	10	Vert. Amp. thru 10K to point Ⓢ. Low side to chassis.	A213, A214, A215	Adjust A213 and A214 for maximum amplitude and symmetry with markers as shown in Fig. 202. Increase bias for MINIMUM amplitude of response curve. Without changing the bias adjust A215 to obtain MINIMUM response on the scope. Reduce bias.
			197. 75MC				
3. "	"	213MC	211. 25MC	13	"	A216	Adjust for maximum amplitude of response similar to Fig. 202. Adjust by expanding or compressing coil turns. 
		207MC	205. 25MC	12		A217	
		201MC	199. 25MC	11		A218	
		195MC	193. 25MC	10		A219	
		189MC	187. 25MC	9		A220	
		183MC	181. 25MC	8		A221	
		177MC	175. 25MC	7		A222	
		85MC	83. 25MC	6		A223	
		79MC	77. 25MC	5		A224	
		69MC	67. 25MC	4		A225	
		63MC	61. 25MC	3		A226	
		57MC	55. 25MC	2		A227	

TRAV-LER MODELS 23K6180F,
M, W (Ch. 1062-151)

FOLDER 1

PARTS LIST AND DESCRIPTIONS

CONTROLS (cont)

ITEM No.	RATING	REPLACEMENT DATA					INSTALLATION NOTES
		TRAV-LER PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R4A	100K	VC-84	TT-40	B47-100K-S	B11-128	PTA15L	Brightness
R5A	100K	VC-84	TT-40	B47-100K-S	B11-128	PTA15L	AGC
B	Shaft		Not Req.	Not Req.	TM4	Not Req.	

† "CONCENTRIKIT" Equivalent: K-15 Kit with Base Elements and Shafts: B17-108, P17-028 (Panel)

† "CONCENTRIKIT" Equivalent: K-15 Kit with Base Elements and Shafts: B11-109, R15-005 (Rear)

‡ "STA-LOC" Equivalent: FA13R, RUI52L, OS875A, IK825.

‡ "STA-LOC" Equivalent: FA25L, RU255L, OS875A, IK825.

* Factory assembled Part #PFP3-133 (SK7).

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 TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R6	10meg				R50	100K			
R7	3meg				R51	560K			
R8	2.2meg				R52	8200Ω			
R9	150K				R53	680Ω			
R10	1000Ω				R54	1meg			
R11	4700Ω				R55	1meg			
R12	39K				R56	150Ω			
R13	3300Ω				R57	220Ω 2W			
R14	47Ω				R58	15K 2W			
R15	220K				R59	2.2meg			
R16	220K				R60	4.7meg			
R17	4700Ω				R61	6800Ω			
R18	470Ω				R62	5600Ω			
R19	68Ω				R63	2200Ω			
R20	22K				R64	3300Ω			
R21	470Ω				R65	150K			
R22	470Ω				R66	820K			
R23	150Ω				R67	56K			
R24	390K				R68	2.2meg			
R25	8200Ω 1W				R69	220K			
R26	6800Ω				R70	100Ω			
R27	100Ω				R71	220Ω 1W			
R28	47K				R72	39K 1W			
R29	7500Ω 5W	PW5-7500	5W-SQ-7500		R73	39K			
R30	39K				R74	220Ω			
R31	1200Ω				R75	3.8Ω (Cold)			
R32	47Ω				R76	220Ω			
R33	180Ω				R77	100K			
R34	15K				R78	100K			
R35	82K				R79	4.7meg			
R36	120K				R80	470K			
R37	150K				R81	7500Ω 5%			
R38	470K				R82	56K			
R39	220K				R83	100K			
R40	47K				R84	1500Ω			
R41	4.7meg				R85	15K			
R42	270K				R86	100Ω			
R43	56K				R87	470K			
R44	39K				R88	12K 3W	PW3-12K	3G-12K	
R45	56K				R89	4700Ω			
R46	100K				R90	1.2Ω			
R47	100K				R91	270K			
R48	330Ω				R92	22K 3W	PW3-22K	3G-22K	
R49	560K								

* Alternate Value

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	TRAV-LER PART No.	REPLACEMENT DATA
K1	Vert. Integrator	.0047mfd, .01mfd, 15K, 15K	CC-120	Centralab PC-392

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRAV-LER PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	1st Video IF	L-150	TV-126 *	6231 *	RTC-8558 *	T208 *	* Disregard Secondary. † Parallel with 4700Ω Resistor.
L2A	2nd Video IF	L-103	TV-127 *	6232	RTC-8559	T209	
L3A	3rd Video IF	L-165	TV-128	6233	RTC-8561	T210	† Parallel with 10K Resistor.
L4	4th Video IF	L-152 ①				T276	
L5	RF Choke (10uh)	L-160	BC-566	4612	RTC-8522	T860	① Includes Complete Assembly.
L6	RF Choke (270uh)	L-158	TV-182	4515	RTC-8525	T863	
L7A	4.5MC Trap	L-154		1482 IFT	RTC-9056	T253	② Wound on 4700Ω Resistor.
L8	1st Sound IF	L-182 ②				T359	
L9	Peaking (180uh)	L-163 ③	TV-184 *	6180 *	RTC-8597 *	T277	③ Wound on 10K Resistor.
L10	2nd Sound IF	L-167	TV-208 †	6157 †	RTC-8598 †	T232	
L11	Quadrature	L-110A	TV-154	1481	RTC-8606	T248	
L12	Fil. Choke (1.5uh)	L-164	BC-562	4604	RTC-8516	T856	

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRAV-LER PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	
L13	Horiz. Stabilizer (Horiz. Hold)	L-156	TV-163	6210	RTC-8622	BS-5	WLC-25 T103

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 °C)	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
L14	.265A	5Ω	1 Hy.	FC-18	C-2096	C-2328	26C44	C-34X	

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 1.75A	560VCT @ .265A DC	5V @ 3A	TR-62A	P-2882	P-8355 ①		R-75BA	① Drill new mounting hole(s).
	SEC. 3	SEC. 4	SEC. 5						
	6.3V @ 9.2A								

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	Vert. Output Yoke (Horiz. 18.8MH) (114°) (Vert. 12.8MH)	TR-50A L-174C	MDF-120 ①	DY-27A ②	26S14 Y-52 ②	A-140X Y-60-1 ③	
T4	Horiz. Output	TR-51	HVO-152 *	HO-304 *	FLY-137 *	D-151R *	

① Connect Yoke Terminal #6 to Yoke Plug Pin #3;

Yoke Terminals #4 and #6 to Yoke Plug Pin #4;

Yoke Terminal #8 to Yoke Plug Pin #5.

② Requires new rear cover and centering device.

③ Remove 4700Ω 1/2 watt Resistor from across vertical winding.

* HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

ORIGINAL TERMINAL CONNECTIONS	Merit Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
5	5	5	5	5 or 4
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
2	2	2	1	2
1	1	1	2	1

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T5	4700Ω	3-4Ω	AT-50	A-3026	A-3877	24S48	S-5Z	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	TRAV-LER PART No.	QUAM PART No.	
SP1	5"	PM	3-4Ω	SPK-36	5A07	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				
			TRAV-LER PART No.	FUSE	HOLDER	LITTELFUSE PART No.	BUSS PART No.
M1	N	3/4A 125V S/B				333.750 (N 3/4A 125V S/B)	
M2	1"	length of #26 wire				346010	N 3/4 HN 1/2 - 3/4

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		TRAV-LER PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M3	1N87	SR-15 *	6GD1 *	1N87	* Dual Selenium Diode, Series Connected Type (AFC). Crystal Diode, Video Detector
M4	1N87				

MISCELLANEOUS

ITEM No.	PART NAME	TRAV-LER PART No.	NOTES
M5	Tuner	TA-62	VHF Complete, STANDARD COIL REPLACEMENT #GG-4220A

TUBES

GENERAL ELECTRIC			RAYTHEON		SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE		
V1	1st Video IF Amp.	6BZ6	V8	Sync Phase Inverter - Vert. Mult.	6CG7		
V2	2nd Video IF Amp.	6BZ6	V9	Vert. Mult. - Vert. Output	6DT5		
V3	3rd Video IF Amp.	6CB6A	V10	Horiz. Mult.	6CG7		
V4	Video Output - Sound IF Amp.	6AW8A	V11	Horiz. Output	6DQ8A		
V5	AGC Keying - Sync Sep. - Noise Limiter	6BU8	V12	Damper	6AU4GTA		
V6	Audio Detector	6DT5	V13	HV Rectifier	1G8GT/1B3GT		
V7	Audio Output	6AS5	V14	LV Rectifier	5U4GB		

PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	TRAV-LER PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V15	23MP4	23MP4 ①	23MP4 ①		23MP4 ②	① Aluminized ② Silver Screen "85"

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	TRAV-LER PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
CLA	.40	350	EC-115	AFH2-84-25	B0483	XC2-28	FP247	TMD-2700	TVL-2780
C10	.820	350	EC-129	AFH2-80	B0590	XC2-36	FP248	TMD-2550	TVL-2559
C2A	.80	200							
B	.100	50							
C3	.40	200	EC-113	PRSI580	BR4025	QTI-14	TC58	TD-40-250	TVA-1511

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	1mfd 100V		P288N-1.0		CUB2W1	1DP-5-105	GEM-21	2TM-M1
C5	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C6	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C7	1mfd 100V		P288N-1.0		CUB2W1	1DP-5-105	GEM-21	2TM-M1
C8	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C9	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C10	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C11	.0022		BPD-0022	DD-222	BYA10D22	CCD-222	B-222	5HK-D22
C12	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C13	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C14	560	5%			5R5T56	CM-19B-56LJ	MCJ247	MS-356
C15	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C16	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C17	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C18	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C19	820		DI-820	DD-821	BYA10T82	CCD-821	B-382	10TS-T82
C20	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22
C21	.022 600V		P688N-022	DD-203	CUB6S22	6DP-2-323	GEM-6122	6TM-S22
C22	.047 600V		P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47
C23	.047 1000V		P108N-047		CUB10S47	16DP-5-473	GEM-10147	10TM-S47
C24	.1 600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10
C25	.001 2000V		HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	BL-D10
C26	47		SI 47		L10Q47	CCD-470	GP447	10TS-Q47
C27	4.7	10%	NPO-SI 4.7	TCZ-4R7	C10V47C	CCTO-4R7	CMO-547	10TCC-V47
C28	.001		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C29	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C30	.0015		BPD-0015	DD-152	BYA10D15	CCD-152	B-25	5HK-D15
C31	.047 200V		P288N-047	DD-503	CUB6S47	4DP-3-473	GEM-4147	2TM-S47
C32	100	10%	DI-100	DD-101	L10T1	CCD-101	GP310	10TS-T10
C33	.047 1000V		P108N-047		CUB10S47	16DP-5-473	GEM-10147	10TM-S47
C34	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C35	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C36	.01 1400V		DAC-27	DD16-103	HVE16S1	16DP-3-103	UAC-110	BL-S10
C37	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C38	.01		BPD-.01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C39	150		DI-150	DD-151	L10T15	CCD-151	GP315	10TS-T15
C40	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C41	.001	10%	DI-1000	DD-102	SR5D1	CCD-102	GP210	10TS-D10
C42	.001	10%	DI-1000	DD-102	SR5D1	CCD-102	GP210	10TS-D10
C43	.0022		BPD-0022	DD-222	BYA10D22	CCD-222	B-222	5HK-D22
C44	.001 2000V		HVD-30-1000	DD30-102	HVB20D1	3CCD-102	2HV-210	BL-D10
C45	.047 200V		P288N-047	DD-503	CUB2S47	4DP-3-473	GEM-4147	2TM-S47
C46	.1 600V 10%		V84C6P1-10%		PM6P1	6DP-4-104	GEM-1001	6TM-P10
C47	.1 600V 10%		V84C6P1-10%		PM6P1	6DP-4-104	GEM-1001	6TM-P10
C48	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C49	.047 600V 10%		V84C6S47-10%		PM6S47	6DP-3-473	GEM-1615	6TM-S47
C50	.01 600V		P688N-.01	D6-103	CUB6S1	6DP-2-103	GEM-611	6TM-S47
C51	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C52	.01 600V		P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47
C53	.0036	10%	1464-0096		IR5D39	CM-20B-392K	MCJ462.5	MS-239
C54	580	10%	1469-00068		5R5T58	CM-19B-60K	MCJ349	MS-368
C55	580	10%	1469-00068		5R5T58	CM-19B-60K	MCJ349	MS-368
C56	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C57	.047 600V		P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47
C58	.027 1600V 10%				DPMS16S3	16DP-5-303	GEM-1613	MB-S30
C59	250 2000V NI500 10%							
C60	250 2000V NI500 10%							
C61	120 2000V 10%							
C62	.047 600V		P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47