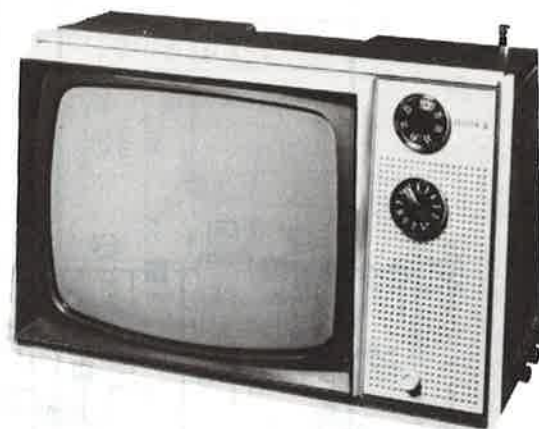


For Supplier Address See PHOTOFACT Index

MODEL

CHASSIS

D1335C, C1, C2, C3	12CB12X (Late Prod.)
D1335F, F1, F2, F3	12CB12X (Late Prod.)
D1335L, L1, L2, L3	12CB12X (Late Prod.)
D1335P, P1, P2, P3	12CB12X (Late Prod.)
D1335V, V1	12CB12X (Late Prod.)
D1340W, W1, W2, W3	12CB12X (Late Prod.)
E1335C, C1, C2, C3	12CB12ZX
E1335C4, C5, C6, C7	12CB12ZX
E1335D, D1, D2, D3	12CB12ZX
E1335D4, D5, D6, D7	12CB12ZX
E1335F, F1, F2, F3	12CB12ZX
E1335F4, F5, F6, F7	12CB12ZX
E1335L, L1, L2, L3	12CB12ZX
E1335L4, L5, L6, L7	12CB12ZX
E1335P, P1, P2, P3	12CB12ZX
E1335P4, P5, P6, P7	12CB12ZX
E1335V, V1, V2, V3	12CB12ZX
E1335V4, V5, V6, V7	12CB12ZX
E1340W, W1, W2, W3	12CB12ZX
E1340W4, W5, W6, W7	12CB12ZX
E1345X, X1, X2, X3	12CB12ZX
E1345X4, X5, X6, X7	12CB12ZX
E1345Y, Y1, Y2, Y3	12CB12ZX
E1345Y4, Y5, Y6, Y7	12CB12ZX
T2618W, W1, W2, W3	12CB12ZX
T2618W4, W5, W6, W7	12CB12ZX



Model E1335C3

SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set.
Check high-voltage regulation and adjust to correct value.

Be sure shields and rear cover are in place and secure.

Beware of shock from high voltage or AC line.
Discharge high voltage to HV cage only.

Use extreme care when handling picture tube. Do not bump, scratch, or exert undue strain.

CAUTION: One side of AC line connected to chassis. Use isolation transformer for servicing.
Make certain isolation networks are in place and exposed metal is safe to touch before returning set to customer.

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HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

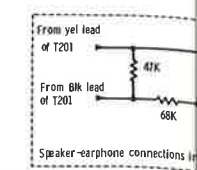


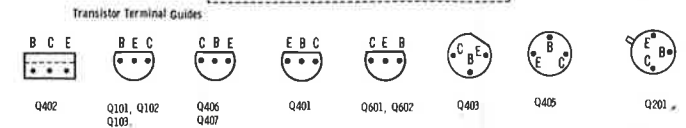
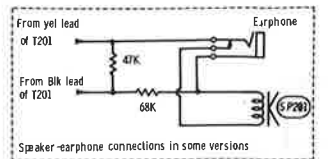
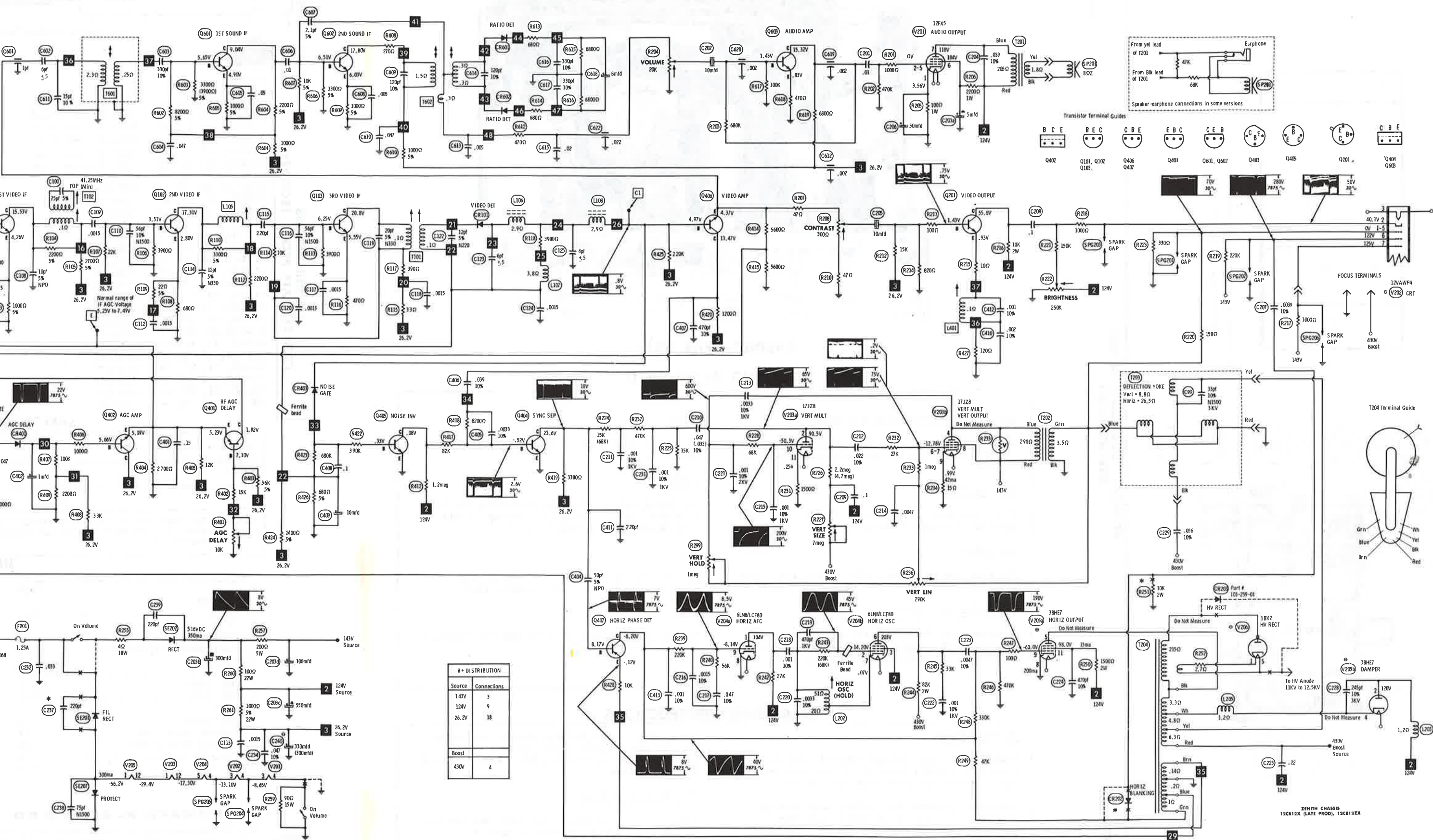
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. 3PA796

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DATE 11-73

SET 1360 FOLDER 3





Source	Connections
143V	3
124V	9
26.2V	18
Boost	
430V	4

ZENITH CHASSIS
12C612X (LATE PROD), 12C612X

RESISTANCE MEASUREMENTS

ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	TOP CAP
V201	100Ω	470K	3.5Ω	0Ω	NC	2300Ω†	320Ω†							
V202	100Ω	180K	5Ω	3.5Ω	NC	250K †	1100Ω†							
V203	10Ω	4meg †	NC	480Ω †	NC	1.3meg	1.3meg	15Ω		1.3meg	1500Ω	7Ω		
V204	27K †	220K	100Ω †	5Ω	7Ω	82K †	20Ω	0Ω	260K					
V205	12Ω	100Ω†	NC	INF	3.3Ω †	NC	NC	0Ω	210K	NC	1600Ω †	10Ω		
V206														200Ω †

PINS 1 THRU 9 HAVE INFINITE RESISTANCE

MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS													
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C
VHF Q1	180Ω	3000Ω	2000Ω	Q103	470Ω	2800Ω	1200Ω	Q405	0Ω	Q405	0Ω	1meg	1.3meg
Q2	1000Ω	2200Ω	800Ω	Q201	130Ω	900Ω	11K	Q406	390Ω	Q406	3300Ω	2000Ω	
Q3	5600Ω	5000Ω	1500Ω	Q401	2300Ω	15K	1300Ω	Q407	10K	Q407	INF	38K	
UHF Q301	330Ω	1700Ω	1700Ω	Q402	2300Ω	100K	600Ω	Q601	1000Ω	Q601	2600Ω	4000Ω	
Q101	1000Ω	3500Ω	3800Ω	Q403	270Ω	3000Ω	24meg *	Q602	1000Ω	Q602	2700Ω	2000Ω	
Q102	680Ω	3500Ω	3000Ω	Q404	0Ω	1.5meg	4000Ω	Q603	470Ω	Q603	100K	7400Ω	

* READING DEPENDS ON POLARITY OF METER CONNECTIONS.
NC NO CONNECTION.

† MEASURED FROM CATHODE OF SE202.
‡ MEASURED FROM PIN 4 OF V205.

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

The cabinet back is equipped with a stop which limits rotation of the hold control to approximately 270 degrees.

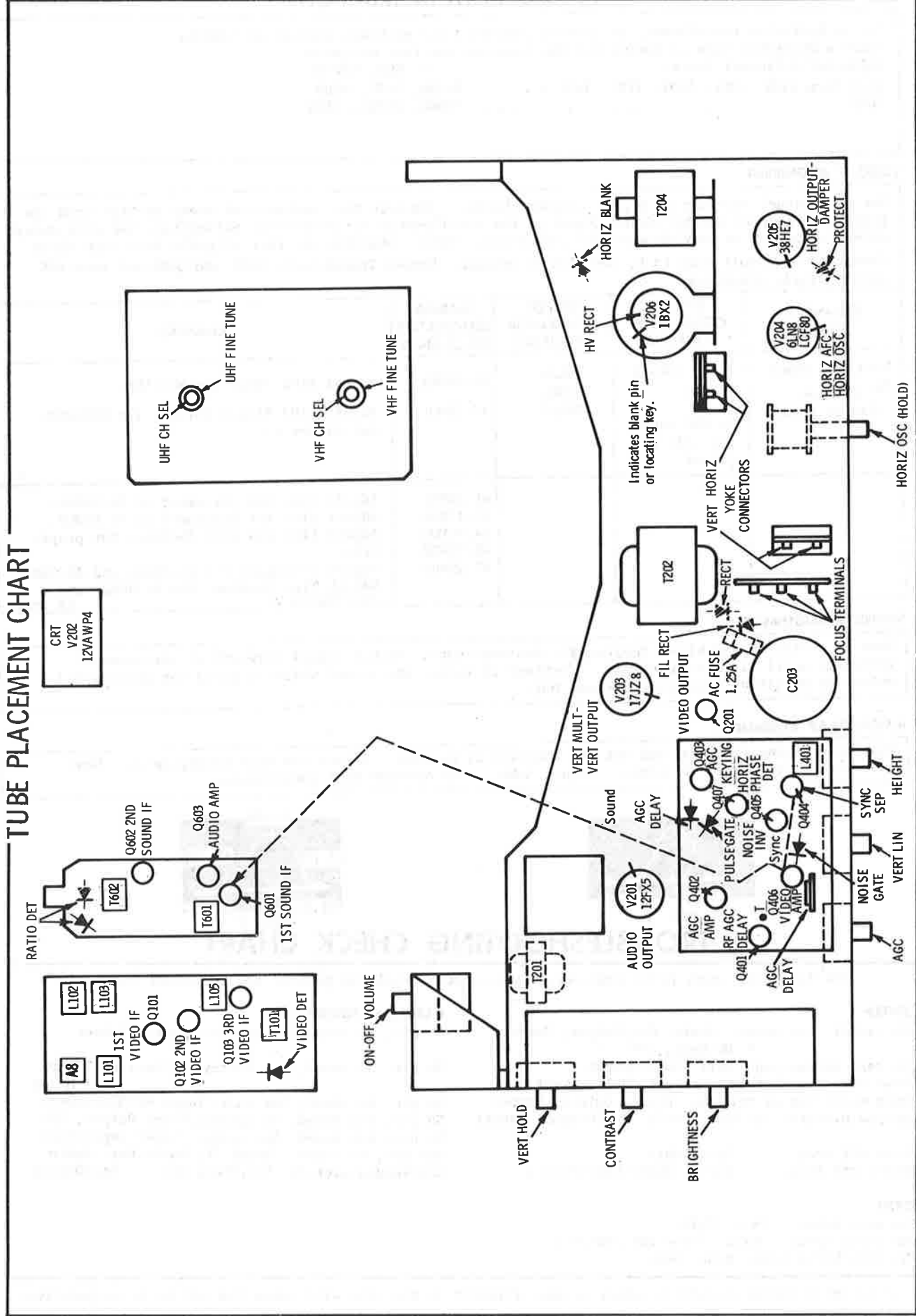
Tune in a TV station and set all controls for normal operation. Adjust horizontal oscillator (hold) to a point where it is virtually impossible to lose horizontal sync while switching from channel to channel. After adjustment, install

the knob with its pointer at the 6-o'clock position.

AGC ADJUSTMENT

Tune in a strong TV station and advance the AGC control until instability appears in the picture (pulling, jitter, overload, etc.). Reduce the control to the point just below the instability. Tune in a weak TV station and adjust AGC delay for picture with MAXIMUM contrast and MINIMUM snow.

TUBE PLACEMENT CHART



TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain voltage at 120VAC. Allow a 20-minute warm-up period for the receiver and test equipment.

Suggested Alignment Tools:

	GC ELECTRONICS
L101 thru L105, L401, T101, T102, T601	#9296, 9297, 9300
T602	#8606, 8869

VIDEO IF ALIGNMENT

Set the channel selector to highest unused channel. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from that shown. Connect a +6.8-volt bias to E, low side to ground. Remove Transistors, Q401 and Q402 and turn AGC control fully clockwise.

CONNECT SCOPE	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
Vertical input to C1, low side to ground.	Thru .001mfd to A on VHF tuner, low side to ground.	44MHz (10MHz Sweep)	41.25MHz 47.25MHz	Adjust T102 (top) for MINIMUM. Adjust L103 (top & bottom) for MINIMUM. See Figure 1.
"	"	"	41.25MHz 42.17MHz 44.00MHz 45.75MHz 47.25MHz	Adjust L101 for placement of 45.75MHz. Adjust L102 for placement of 42.17MHz. Adjust L105 and T102 (bottom) for proper tilt. Adjust T101(top) for 44.00MHz and 45.75MHz. Adjust T101 (bottom) for 44.00MHz and 42.17MHz. See Figure 2

SOUND IF ALIGNMENT

Tune in a station and adjust T602 (top) for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting T602 (bottom) and T601.

4.5MHz TRAP ALIGNMENT

Tune in a strong TV signal and set the contrast at maximum. Adjust the fine tuning until a beat pattern is visible on the screen. Adjust L401 for MINIMUM beat interference.

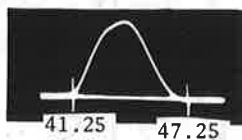


FIG. 1



FIG. 2

FIG. 2 TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptom.

SWEEP

No raster, has sound: Horiz. Osc/Output, Damper, HV Rect, CRT
No vert deflection: Vert. Mult/Output
Poor vert lin or foldover: Vert. Mult/Output
Poor horiz lin or foldover: Horiz. Output, Damper
Narrow picture: LV Rect, Horiz. Osc/Output, Damper

Vert off freq:	Vert. Mult.
Horiz off freq:	Horiz. Phase Det/AFC/Osc.

SYNC

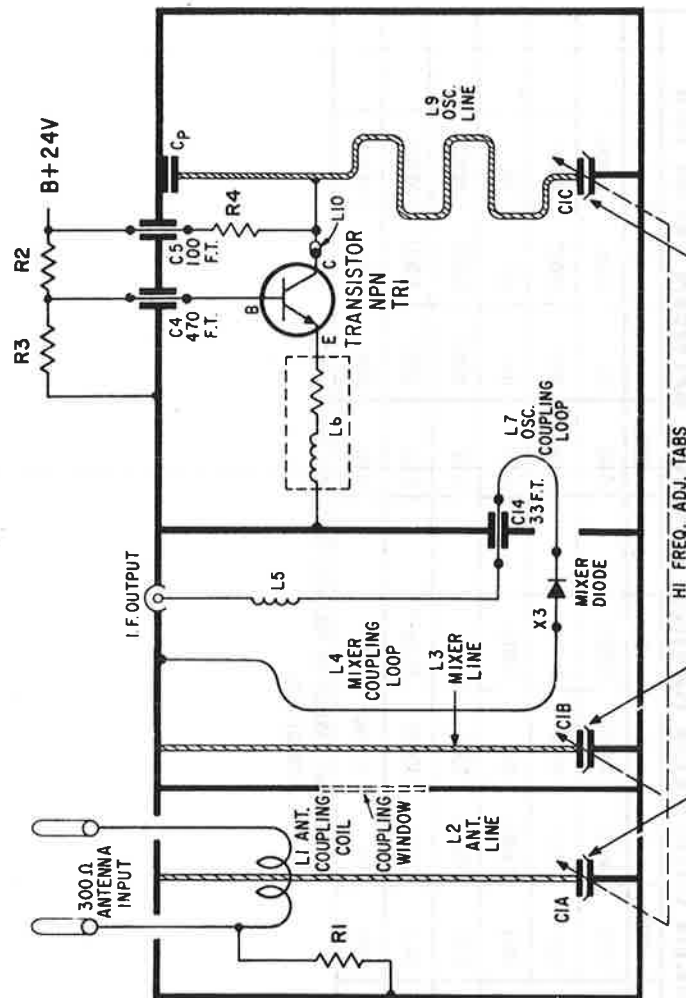
No vert sync: Vert. Mult.
No horiz sync: Horiz. Phase Det./AFC/Osc.
No vert/horiz sync: Sync. Sep.

PICTURE or SOUND

No pic, no sound, no raster: Fuse, LV Rect.

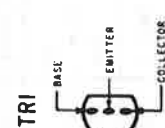
No pic, no sound, has raster: Video IF, Tuner
Mixer

No pic, no sound, has snow: Tuner RF/Mixer/Osc.
 No pic, has sound, no raster: Video Output, CRT
 No pic, has sound, has raster: Video Amp/Output
 Has pic, no sound: Sound IF, Ratio Det, Audio
 Overloaded picture: AGC, Video Det. Amp/Output

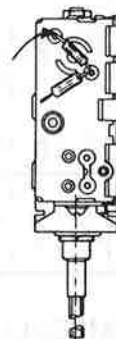


NOTES:

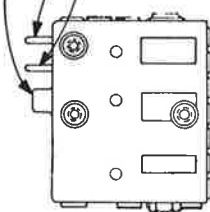
1. 6-M.V. DENOTES GUARANTEED MIN. VALUE.
2. DENOTES CHASSIS
3. FOR SERVICE TRANSISTOR REPLACEMENT, USE ONLY THE TYPE THAT WAS ORIGINALLY SUPPLIED IN TUNER.
4. ALL CAPACITORS IN PICOFARADS UNLESS OTHERWISE SPECIFIED.
5. ALL RESISTORS ARE 1/2 WATT .5% TOLERANCE UNLESS OTHERWISE SPECIFIED.
6. THE SPECIFIED WAVE TUNER B+ THRUPT MUST COINCIDE WITH THE B+ SUPPLY AVAILABLE FROM THE WVF TUNER AND TV CHASSIS.



BOTTOM VIEW OF TRANSISTOR



B + FROM VHF TUNER



I.F. OUTPUT TO VHF

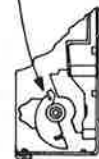
UHF ANTENNA TERMINALS
(300 OHM INPUT)

ZENITH CHASSIS
12CB12X (LATE PROD), 12CB12ZX

ITEM NO.	NUMBER PART	DESCRIPTION	PART OF ROTOR ASSEM.
C1A		ANTENNA TUNING CAP.	
C1C		MIXER TUNING CAP.	
C2	22-5567	OSCILLATOR TUNING CAP.	300 V
C4	22-5571	470 PF GHV F.T.	300 V
C5	22-5571	100 PF $\pm 100\%$ -0% F.T.	300 V
C6	22-5571	100 PF $\pm 100\%$ -0% F.T.	300 V
C7	22-6280	10.5 PF $\pm .25$ PF N 330	300 V
R1	63-1933	3.3 MEGOHM $\pm 10\%$	W
R2	63-1931	12K OHM $\pm 10\%$	$\frac{1}{2}$ W
R3	63-1932	1.2K OHM $\pm 10\%$	$\frac{1}{2}$ W
R4	63-4199	2.2K OHM $\pm 10\%$	$\frac{1}{4}$ W
L1	20-1539	ANTENNA COUPLING COIL	
L2		ANTENNA LINE	
L3		ANTENNA COUPLING COIL	
L4	20-1540	MIXER COUPLING LOOP	
L5	20-1549	DIODE OUTPUT COIL	
L6	S-78186	EMITTER CHOKE	
L7	20-1541	OSCILLATOR COUPLING LOOP	
L8		IRON CORE BEAD	
L10	149-404	IRON CORE BEAD	
T3	103-61	MIXER DIODE	
TP1	121-551	TRANSISTOR, SULFON. NPN	

OSCILLATOR ADJUSTMENTS

**HIGH FREQUENCY
OSC. ADJUSTMENT**
(SET AT CHANNEL 83)
SEND SMALL TAIL



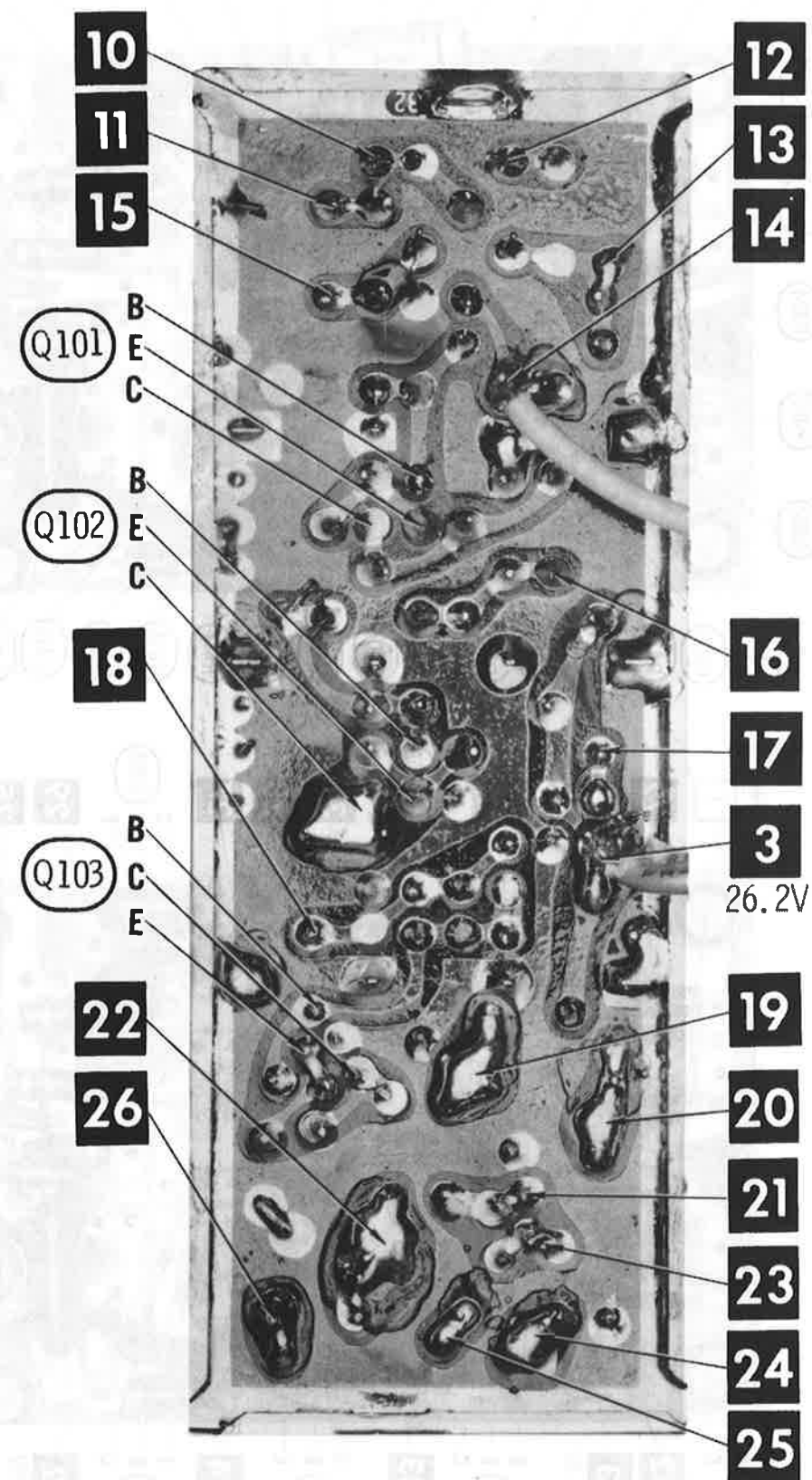
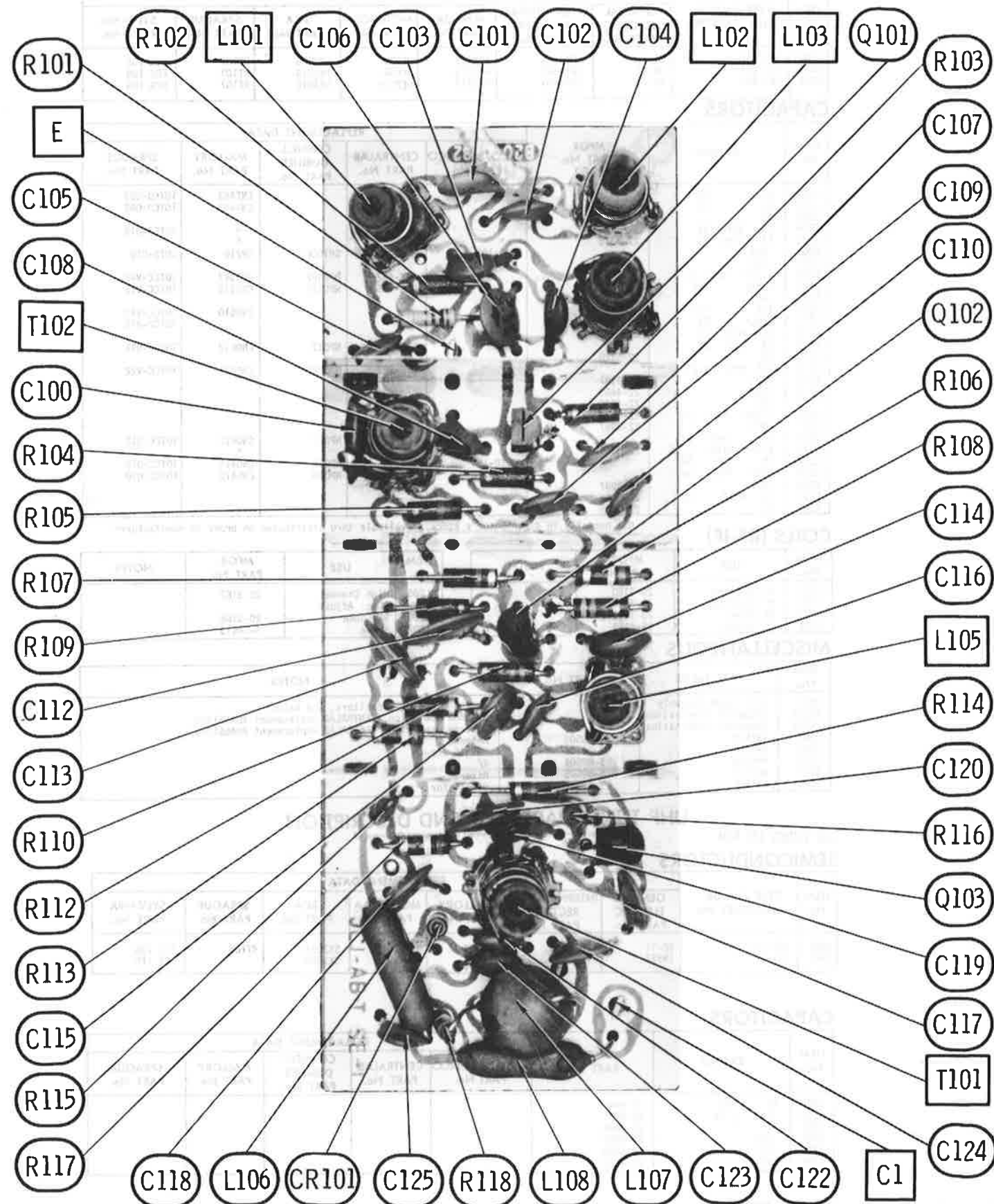
**LOW FREQUENCY
OSC. ADJUSTMENT
(SET AT CHANNEL 14)
BEND END SEGMENT OF
ROTOR PLATE.**



FOLDER 3

Courtesy of the Manufacturer

Schematic Diagram and Layout of the 175-86 UHF Tuner

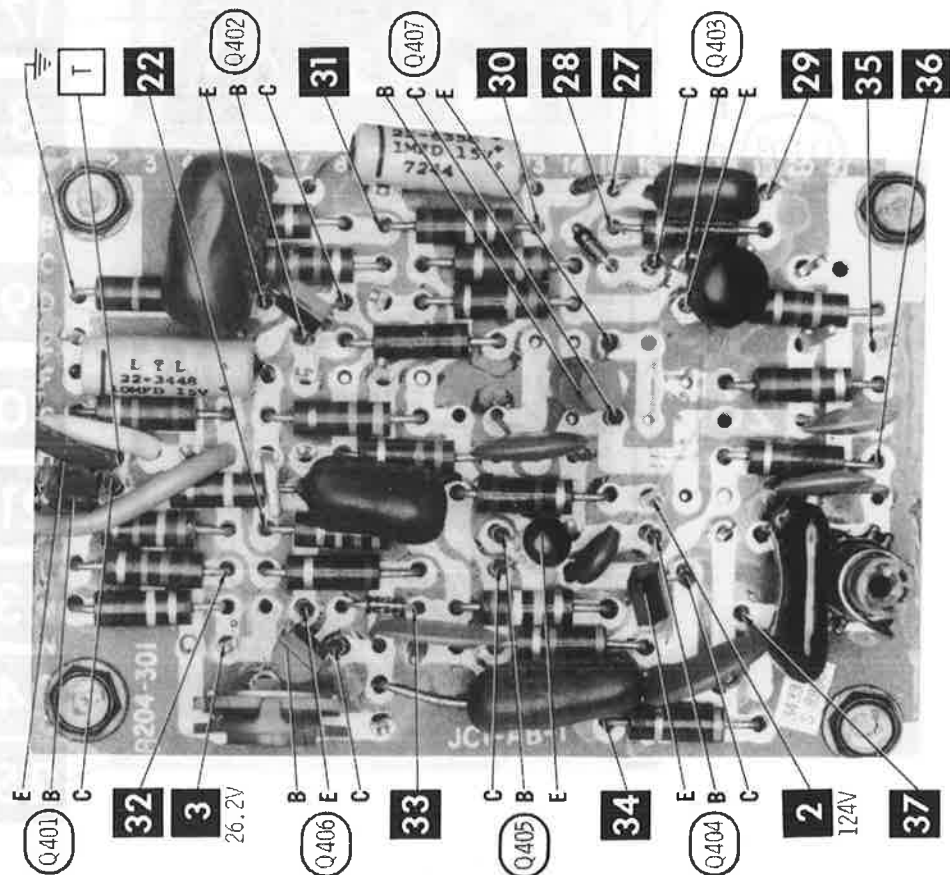
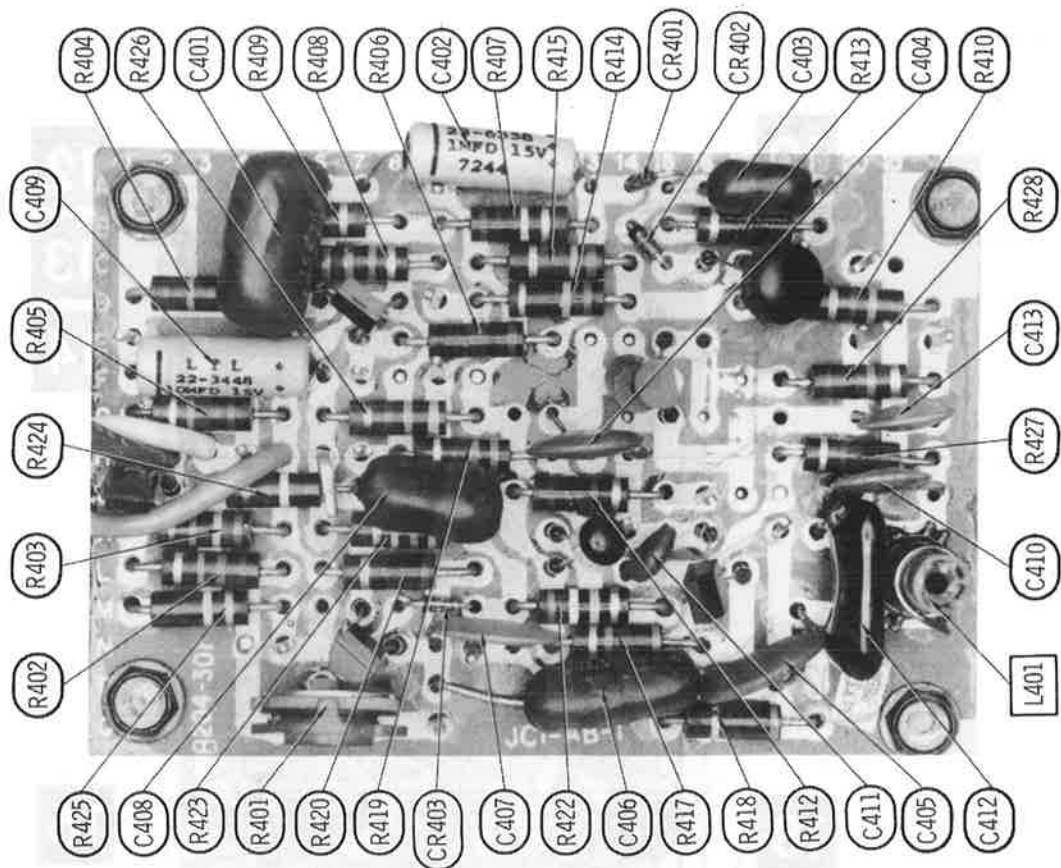


IF MODULE

A Howard W. Sams CIRCUITRACE® Photo

ZENITH CHASSIS
12CB12X (LATE PROD), 12CB12ZX

FOLDER 3



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

AGC MODULE

VHF TUNER 175-881 SEMICONDUCTORS VHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q201	121-851	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG 108
Q202	121-884	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG 108
Q203	121-481	GE-11	IRTR-80	PTC115	HEP720	SK3018	RT107	ECG 108

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	82 5%			TCN-82		CN7482	10TCU-Q82
C202	82 5%			TCN-82		CN7482	10TCU-Q82
C203	43						
C204	15 N470 5%	22-6368					
C205	13 N150 5%	22-6376					
C206	.001	22-6375					
C207	.001	22-6371					
C208	4.7pf NPO ±.25						
C209	1.5pf 10%						
C210	.001	22-3987					
C211	1pf 10%						
C212	1.8pf 5%	22-4515					
C213	43 N750 5%	22-5586					
C214	12 NPO 5%						
C215	22	22-5220					
C216	2pf NPO ±.25						
C217	.001	22-3987					
C218	10pf	22-4685					
C219	100	22-6370					
C220	1.3pf NPO ±.1	22-6372					
C221	.001	22-3987					
C222	12 NPO 5%						
C223	6.2pf N150 ±.25	22-6374					
C224	15 NPO 5%						
C225	10pf NPO 5%						
C226	.001	22-3987					
C227	16 N750 5%	22-6098					
C228	51	22-6369					

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

COILS (RF-IF)

ITEM No.	USE	MFR. PART No.	NOTES
L201	RF Coupling	20-3150	
L202	RF Coupling	20-3380	
L203	RF Choke	20-3165	
L204	IF Output	95-2955	

ITEM No.	USE	MFR. PART No.	NOTES
L205	High Channel	20-3167	
L206	Osc. Adjust	20-3166	
L207	RF Choke	S-74413	
L207	Balun		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M201	Ant. Input Assembly		
PC201	Component Combination		
PC202	Component Combination		
S201	Switch	S-89503	
S202	Switch	S-89506	
S203	Switch	S-89504	
S204	Switch	S-89505	
S205	Switch	S-89508	

Includes coils, capacitors, and balun.
Antenna Isolation. CENTRALAB Replacement #DA661Z5U.
Antenna Isolation. CENTRALAB Replacement #DA661Z5U.
Antenna
UHF IF Input
RF
Mixer
Oscillator

UHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

UHF TUNER 175-910

SEMICONDUCTORS

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q301	121-742	GE-11	IRTR-83	PTC133	HEP720	SK3019	RT108	ECG 108
X301	103-61	1N82A	1N82AG	PTC217	HEPRO700	SK3089		ECG 112

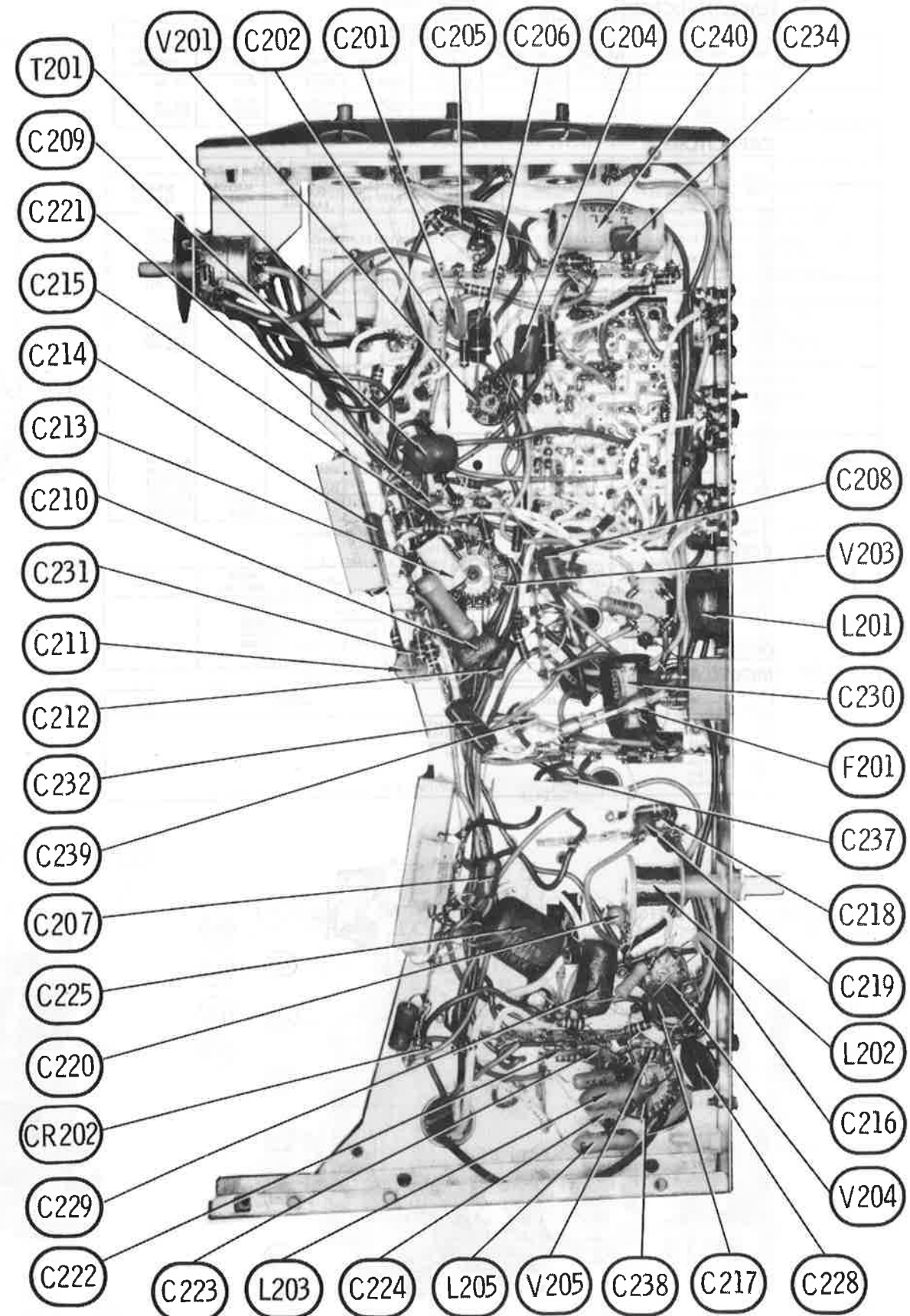
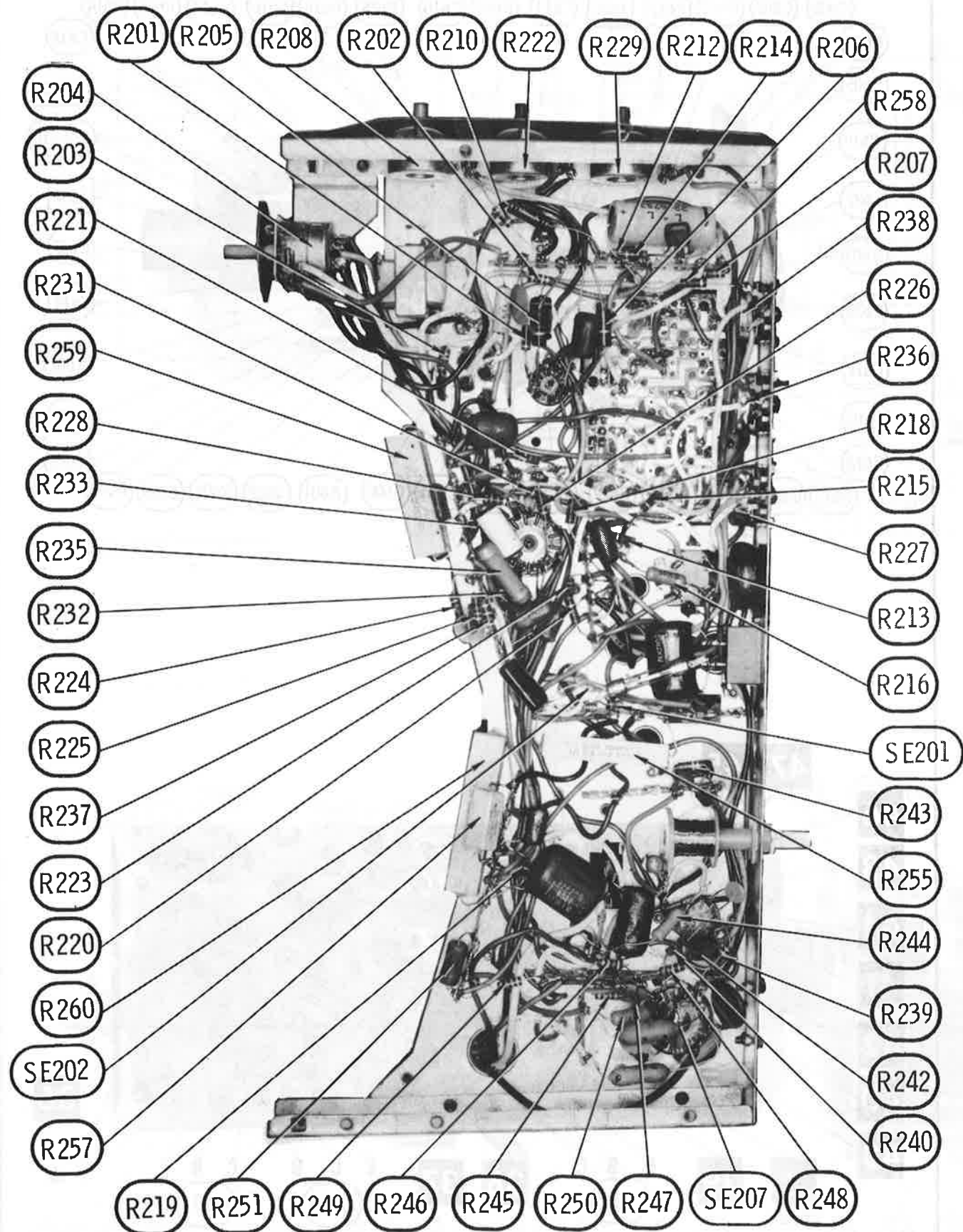
CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	25 10%	22-6448					
C302	.5pf ±.25	22-6451					
C303	15	22-6449					
C304	.001	22-6450					
C305	.001	22-6450					
C306	.001	22-6452					

COILS (RF-IF)

ITEM No.	USE	MFR. PART No.	NOTES
L301	UHF IF Output	20-3390	
L302	RF Choke	20-3384	

ITEM No.	USE	MFR. PART No.	NOTES
L303	RF Choke	20-3389	



CHASSIS - BOTTOM VIEW

ZENITH CHASSIS
12CB12X (LATE PROD), 12CB12ZX

FOLDER 3

VHF TUNER PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

175-1700, 175-2100-20

SEMICONDUCTORS

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q1	121-899	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG 108
Q2	121-974 *	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG 108
Q3	121-932	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG 108
Q3	121-898	GE-11	IRTR-80	PTC115	HEP56	SK3018	RT107	ECG108

* Alternate used in some versions.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33	10%					
C2	8.2	10%					
C3	.001						
C4	27	10%	CCD-102	DD-102	NP08P2	GP210	10TCC-V82
C6	10	N470	CCTO-270		NP027	CN0427	10TCC-V82
C7	30						
C8	15	10%					
C9	2.2	N075	CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C10	2	10%					
C11	2.25	N075					
C12	3.3	NPO					
C13	10	NPO					
C14	5	NPO					
C15	.001						
C16	.001						
C17	.001						
C18	30	10%					
C19	.001						
C20	10	5%					
C21	100	5%					
C22	.001						
C23	.001						
C24	.001						
C25	100	N150					
C26	5						
C27	100	N150			NP05		10TCP-T10
C28	27						10TCC-V50
C29	27		CCTO-270		NP027	CN0427	10TCP-T10
C30	22	10%	CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q27

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

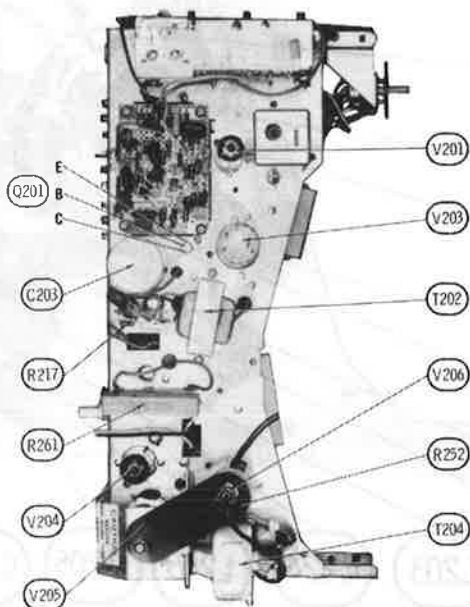
COILS (RF-IF)

ITEM No.	USE	MFR. PART No.	NOTES
L1	UHF Input	20-3487	
L2	UHF Input	20-3486	
L3	RF Coupling	20-3429	
L4	RF Amp	20-3430	
L5	Mixer	20-3431	
L6	Oscillator	20-3432	

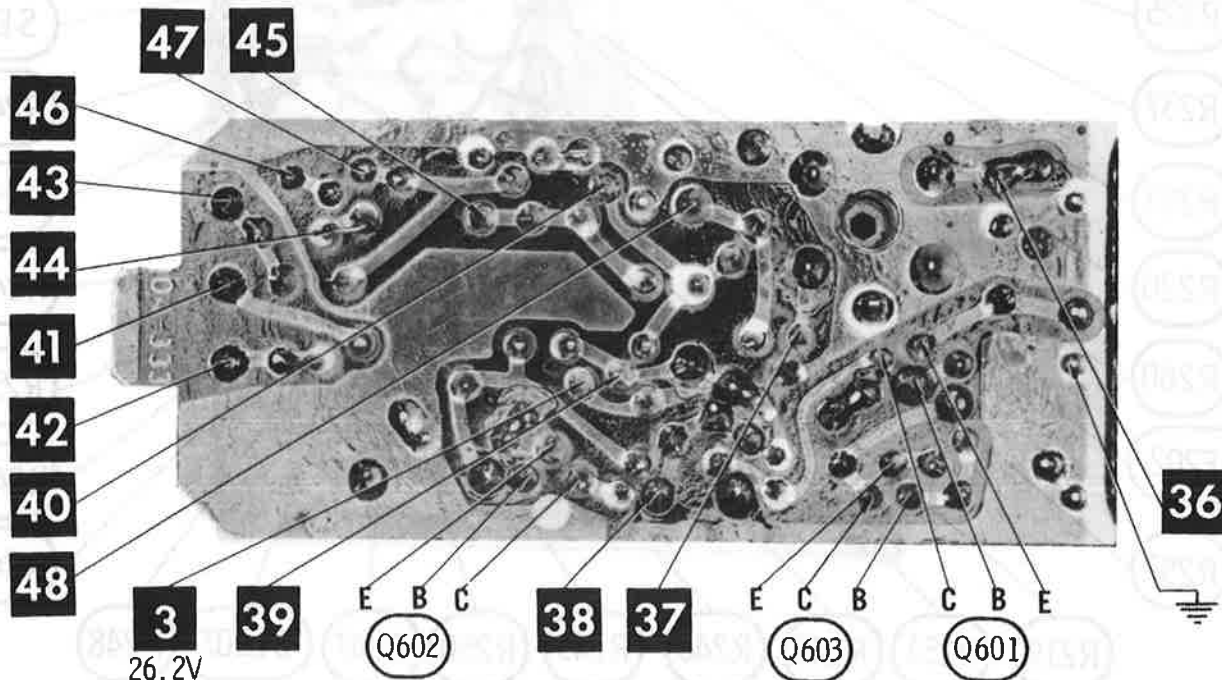
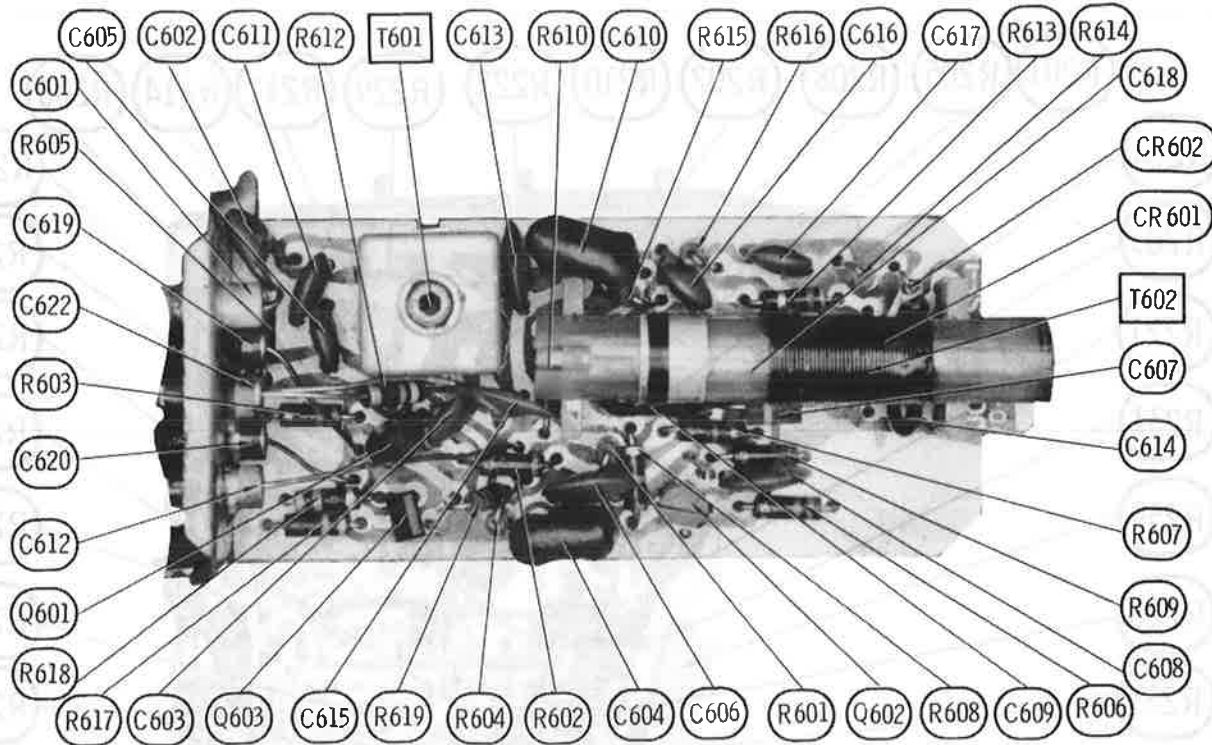
ITEM No.	USE	MFR. PART No.	NOTES
L9	RF Choke	S-90841	
L10	RF Choke	S-90842	
T1	Ant. Filter	S-90875	
T2	Balun	95-3003	
T3	Tuner IF Output	95-3020	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
A1	Component Combination	105108	Ant Isolation
A2	Component Combination	105102	Ant Isolation
S1	Switch	S-90945	Osc Rotor
S2	Switch	S-90947	Mixer
S3	Switch	S-90948	RF
S4	Switch	S-90949	Ant
S5	Switch	S-90950	UHF IF Input & B+



CHASSIS - TOP VIEW

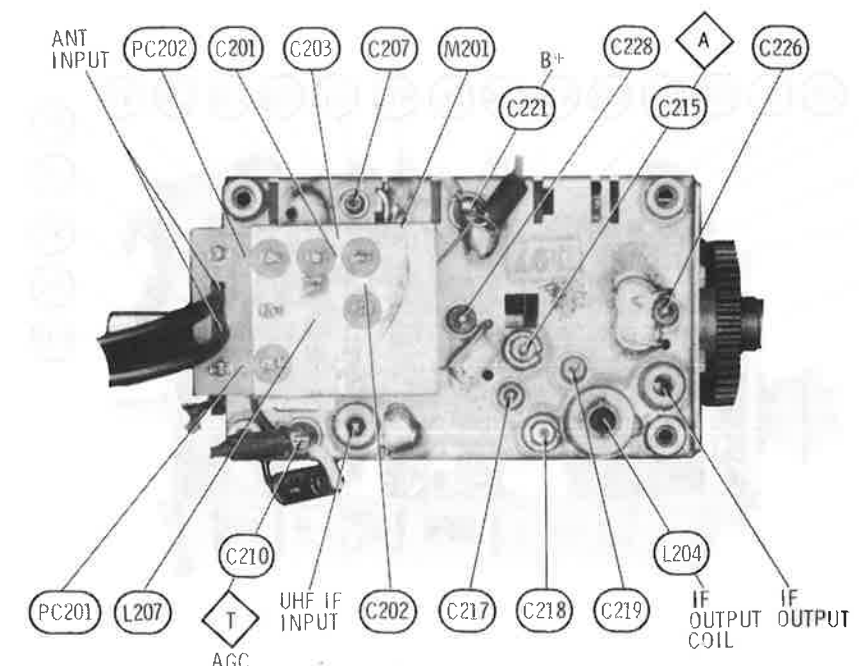
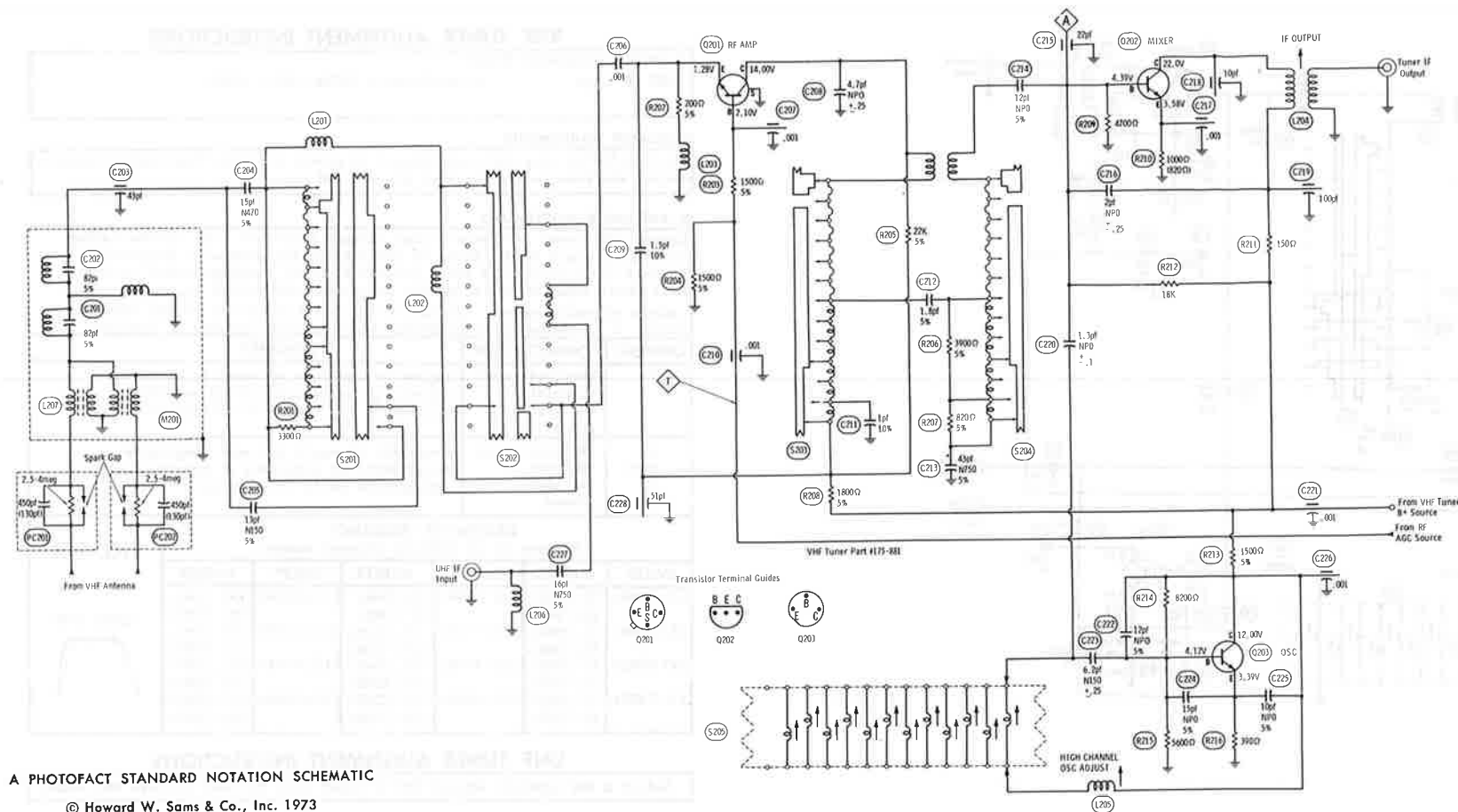


SOUND MODULE

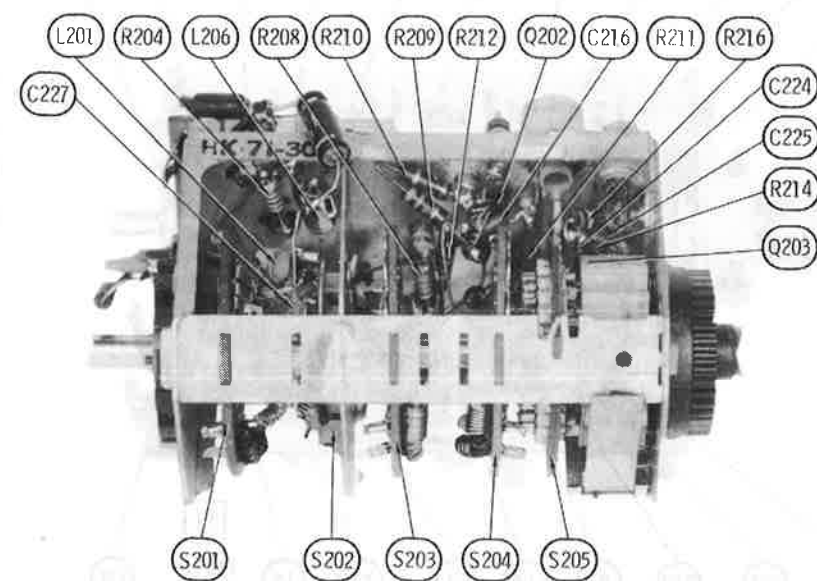
A Howard W. Sams CIRCUITRACE Photo

ZENITH CHASSIS
12CB12X (LATE PROD), 12CB12ZX

FOLDER 3



VHF TUNER 175-881



VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GC ELECTRONICS:
 Tuner IF Output Coil #9296, 9297, 9300
 High Channel Oscillator Adjust #9293

OSCILLATOR ADJUSTMENTS Tuner #175-881

The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound. If necessary, adjust the high channel oscillator coil. Recheck.

OSCILLATOR ADJUSTMENTS Tuner #175-1700

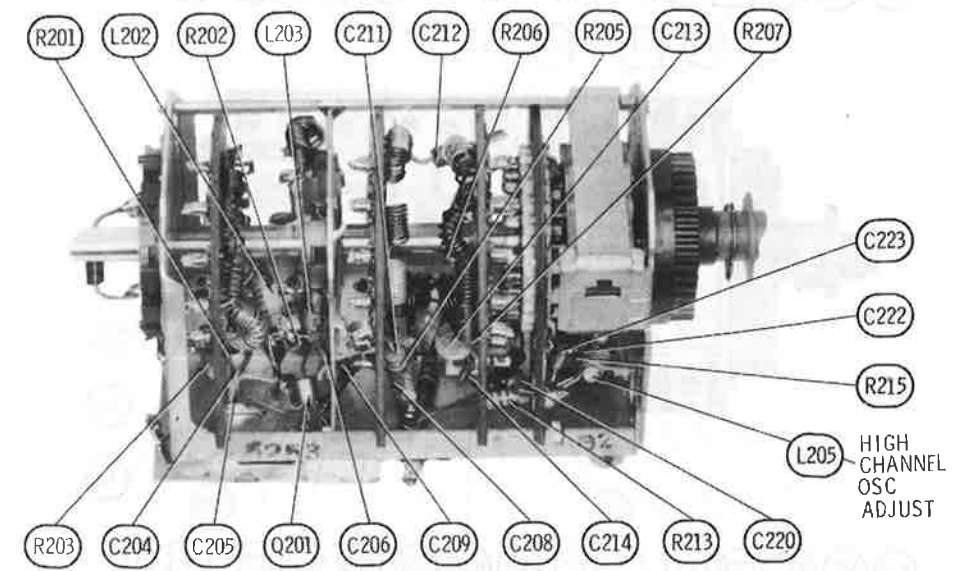
The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound. If necessary, adjust the overall oscillator adjustment. Recheck.

RF AND MIXER ADJUSTMENTS

Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at Point T. Adjust bias to obtain response curve showing no overload.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point A, low side to ground.	Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
12 thru 2	Vertical input to Point A, low side to ground.	Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

GENERATOR FREQUENCY					
Numbers in () indicate channel number					
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER
(2) 57MC	55.25MC	(6) 85MC	83.25MC	(10) 195MC	193.25MC
	59.75MC		87.75MC		197.75MC
(3) 63MC	61.25MC	(7) 177MC	175.25MC	(11) 201MC	199.25MC
	65.75MC		179.75MC		203.75MC
(4) 69MC	67.25MC	(8) 183MC	181.25MC	(12) 207MC	205.25MC
	71.75MC		185.75MC		209.75MC
(5) 79MC	77.25MC	(9) 189MC	187.25MC	(13) 213MC	211.25MC
	81.75MC		191.75MC		215.75MC



CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

[illegible]

ZENITH CHASSIS
12CB12X (LATE PROD), 12CB12ZX

FOLDER 3

(When ordering parts, state Model, Part Number, and Description.)

TUBES

* Alternate used in some versions.

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V202	12VAMP4 or 12VAFP4 or 12VAMP4 or 310EVB4			301ENB4 301ENB4	

(6) Matched Pair.
(7) Two required - select matched pair.

* Alternate used in some versions.

12

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

* "SNAPTROL" (1) Used in Models using Chassis 12CB12X.

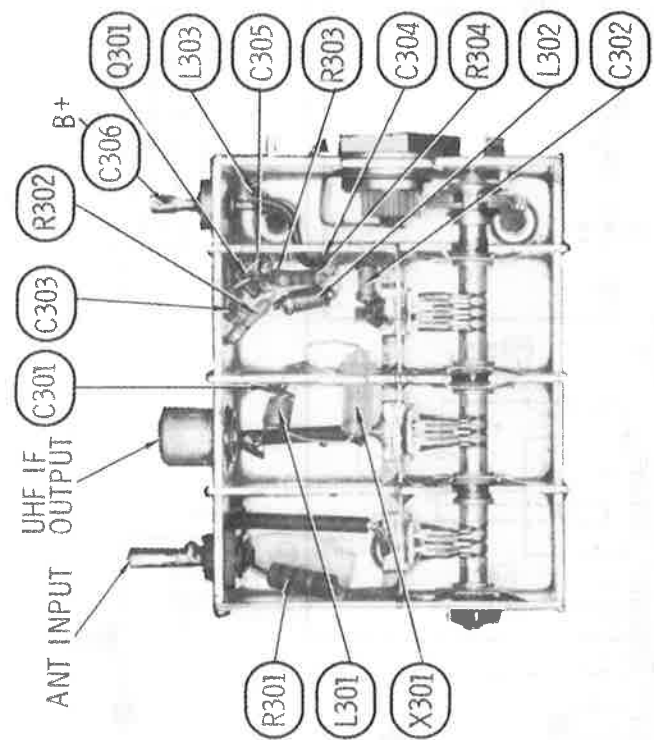
(1) Part Number 63-5750 may be used in some versions.
* Voltage Dependent Resistor.

- (1) Part Number 20-3098, may be used in some versions.
- (2) Part Number 20-3099, may be used in some versions.
- (3) Part Number 20-3100, may be used in some versions.
- (4) Part Number 20-3097, may be used in some versions.
- (5) Part Number 20-2002, may be used in some versions.
- (6) Part Number 95-2909, may be used in some versions.
- (7) Part Number 95-92949, may be used in some versions.
- (8) Part Number 95-3007B, may be used in some versions.

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12CB12X (LATE PROD), 12CB12ZX

(1) Part Number 136-95, 1-amp fuse, may be used in some versions.

FOLDER 3

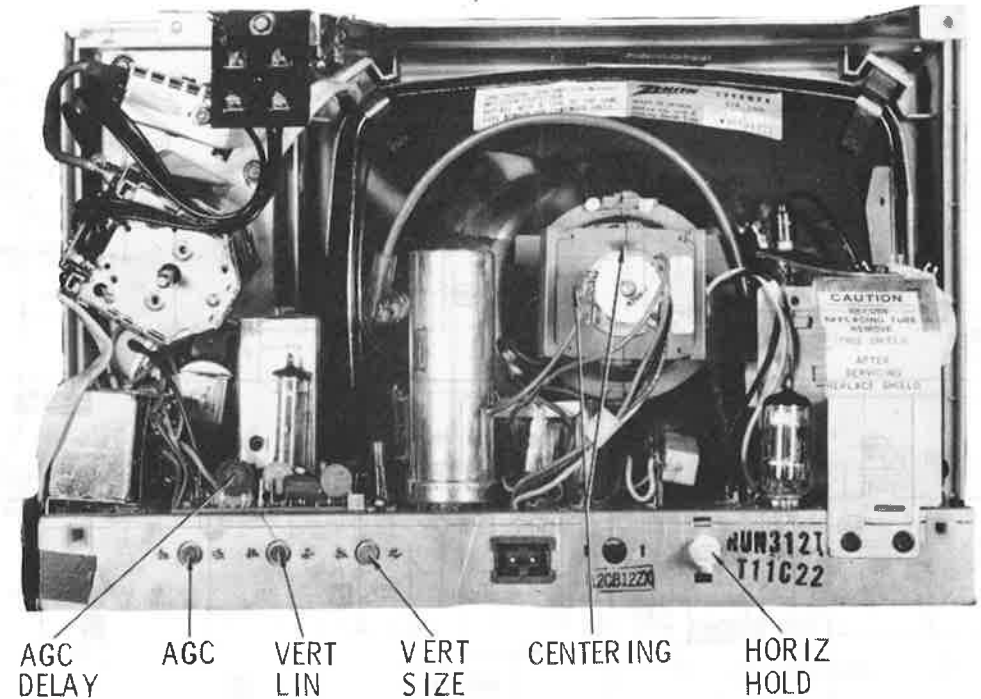


UHF TUNER 175-910

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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12CB12X (LATE PROD), 12CB12ZX

FOLDER 3



CABINET-REAR VIEW
SERVICING IN THE FIELD

CRT IMPLOSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE DEVICES

A 1.25-amp fuse is used for AC line protection. (See photo "Chassis-Bottom View".)

VHF TUNER

The fine tuning mechanically engages oscillator slug for adjustment (one slug for each channel).

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horizontal hold coil. (See photo "Cabinet-Rear View".)

WIDTH

No provision is made to vary the width on this receiver.

FOCUS

The focus may be varied by connecting the lead from pin 7 of CRT to various voltage points. (See photo "Cabinet-Rear View".)

AGC

The AGC may be varied by means of an AGC control. (See photo "Cabinet-Rear View".)

BUZZ

No provision is made to eliminate intercarrier buzz on this receiver.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

Remove five screws holding cabinet back and disconnect antenna leads and remove cabinet back. Remove all knobs from the cabinet.

Disconnect picture-tube socket, high-voltage anode lead, speaker leads and ground strap. Remove deflection yoke from the picture-tube neck. Remove one screw holding antenna terminal block and three screws holding tuner assembly and remove tuner assembly from the cabinet front.

Remove four screws holding chassis and slide chassis back to gain access to four screws holding volume control bracket. Remove chassis from the cabinet.

PICTURE TUBE REMOVAL

Follow "Chassis Removal" procedure and lay set face down on a soft protective surface.

Remove picture-tube retaining wire bolt and remove wire from the picture tube. Lift picture tube from the cabinet.