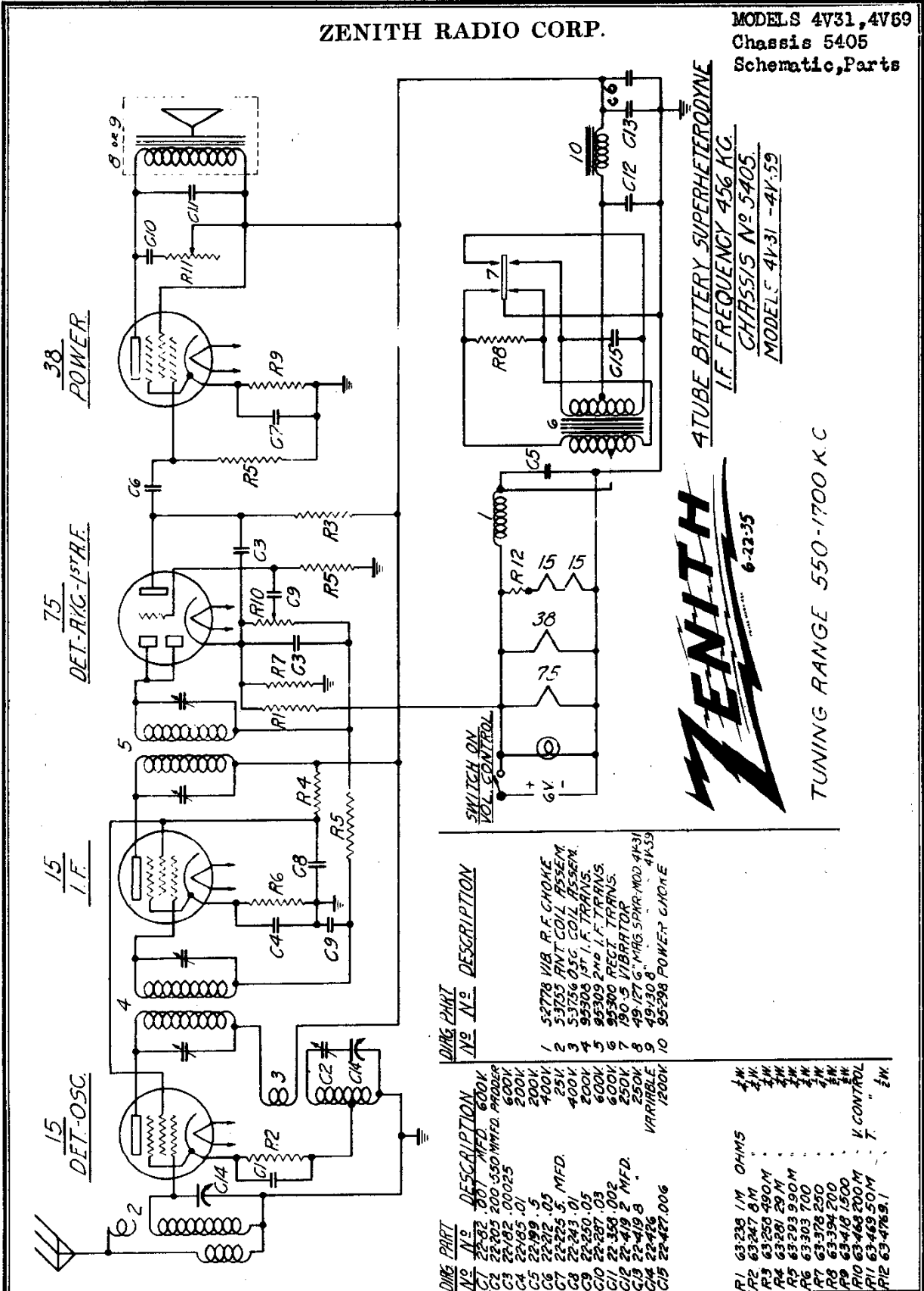


ZENITH RADIO CORP.

MODELS 4V31, 4V59
Chassis 5405
Schematic, Parts



ZENITH
4-TUBE BATTERY SUPERHETERODYNE
I.F. FREQUENCY 456 KC.
CHASSIS No 5405
MODEL 4V31-4V59
6-23-35

TUNING RANGE 550-1700 K.C.

DIRG. PART

No.	Description	Part No.	Description
1	52778 VIB. R.F. CHOKE	CT 22-82	807 MFD. 600V
2	53755 ANT. COIL ASSEMB.	CT 22-205	200-550 MFD. PROOF
3	53756 OSC. COIL ASSEMB.	C3	22-182 20025
4	92508 1ST I.F. TRANS.	C4	22-185 .01
5	92509 2ND I.F. TRANS.	C5	22-189 .5
6	92500 RECT. TRANS.	C6	22-212 .05 MFD.
7	190-5 VIBRATOR	C8	22-243 .01
8	49-127 6" MAG. SPKR. MOD. 4K-31	C9	22-250 .05
9	49-130 8" MAG. SPKR. MOD. 4K-39	C11	22-350 .002
10	85298 POWER CHOKER	C12	22-419 2 MFD.
		C13	22-419 B
		C14	22-426
		C15	22-427 .006
			VARIABLE
			1200K
R1	63-238 1M OHMS		
R2	63-247 5M		
R3	63-250 490M		
R4	63-281 29M		
R5	63-293 990M		
R6	63-303 700		
R7	63-378 250		
R8	63-394 200		
R9	63-418 1500		
R10	63-444 200M		
R11	63-483 50M		
R12	63-478 5.1		
			OHMS
			5M
			490M
			29M
			990M
			700
			250
			200
			1500
			200M
			50M
			5.1
			1200K
			VARIABLE
			1200K
			OHMS
			5M
			490M
			29M
			990M
			700
			250
			200
			1500
			200M
			50M
			5.1

Courtesy Nostalgia Air

MODELS 4V31, 4V59

Chassis 5405

Voltage, Socket, Parts
Trimmers, Alignment

ZENITH RADIO CORP.

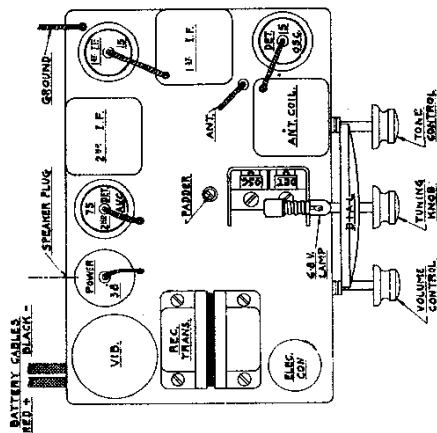
Socket Voltages

TUBE	POSITION	Bf	Bk	Bg1	Bg2	Bg3	Bp
15	1st Det. Osc.	2	8	0	115	-	155
15	I. F.	2	3.5	0	115	-	155
75	2nd Det. A.V.C.	6	1.5	0	-	-	30
38	PWR	6	14	0	155	-	148

Battery - 6 volts
Antenna and ground disconnected.
f - filament; k - cathode; g1 - control grid; g2 - screen grid; g3 - suppressor grid; p - plate.
All measurements taken from point indicated to ground using a 1000 ohm per volt D. C. meter.

Alignment

- (1) Balance intermediate transformers at 456 K.C. with service oscillator connected to grid of 15 first detector and ground.
- (2) Connect service oscillator to antenna and ground.
- (3) Adjust oscillator trimmer on gang condenser for correct dial reading at 1400 K.C.
- (4) Adjust detector trimmer on gang condenser to resonance.
- (5) Adjust oscillator padder (located in rear of gang) meanwhile rocking pointer past 500 K.C. to combination giving greatest output.
- (6) Repeat operations 3 and 4.



PARTS AND PRICES
Chassis #5405

Models 4-V-31
4-V-59

Part Number	Description	Quantity	Price
7-7	Dial Glass and Scale Bezel and Mounting Bracket	1	.40
28-98	Dial Scale	1	.50
59-45	Dial Pointer and Busing Assembly	1	.15
61-38	Dial Pulley	1	.40
78-182	Dial Drive Shaft	1	.10
80-69	Dial Tension Spring	1	.02
94-200	Dial Shaft Bushing	1	.10
100-23	6.3 Volt Dial Lamp	1	.15
132-13	Dial Glass Retaining Ring	1	.05
188-2	Retaining Rings	1	.10
192-11	Dial Glass	1	.15
196-5	Dial Glass Gasket	1	.03
Condensers			
22-82	.001 Mfd. 600 Volts	1	.25
22-182	.00025 " 600 "	1	.12
22-185	.01 " 200 "	1	.20
22-199	.5 " 200 "	1	.35
22-205	200-550 Mfd. Padder	1	.35
22-212	.05 Mfd. 400 Volts	1	.20
22-225	5. " 25 "	1	.65
22-243	.01 " 400 "	1	.15
22-250	.05 " 200 "	1	.15
22-287	.002 " 500 "	1	.15
22-358	.002 " 300 "	1	.20
22-419	2 x 8 " 250 "	1	1.75
22-426	2-Gang Variable Condenser	1	2.00
22-427	.006 Mfd. 1200 Volts	1	.15
Resistors			
63-238	1 M Ohm 1/2 Watt	1	.20
63-247	6 M " " " "	1	.20
63-258	490 M " " " "	1	.20
63-281	29 M " " " "	1	.20
63-293	990 M " " " "	1	.20
63-303	700 " " " "	1	.20
63-378	250 " " " "	1	.20
63-394	200 " " " "	1	.20
63-418	1500 " " " "	1	.20
63-468	200 M Volume Control and Switch Assembly	1	1.00
63-469	50 M Tone Control Assembly	1	.60
63-476	9.1 Ohm 1/2 Watt	1	.20
Coils and Chokes			
95-308	1st I.F. Transformer Assembly	1	1.25
95-309	2nd I.F. Transformer Assembly	1	1.25
S-3755	Antenna Coil Assembly	1	1.25
S-3756	Oscillator Coil Assembly	1	1.50
S-2778	Vibrator i. F. Choke Assembly	1	.15