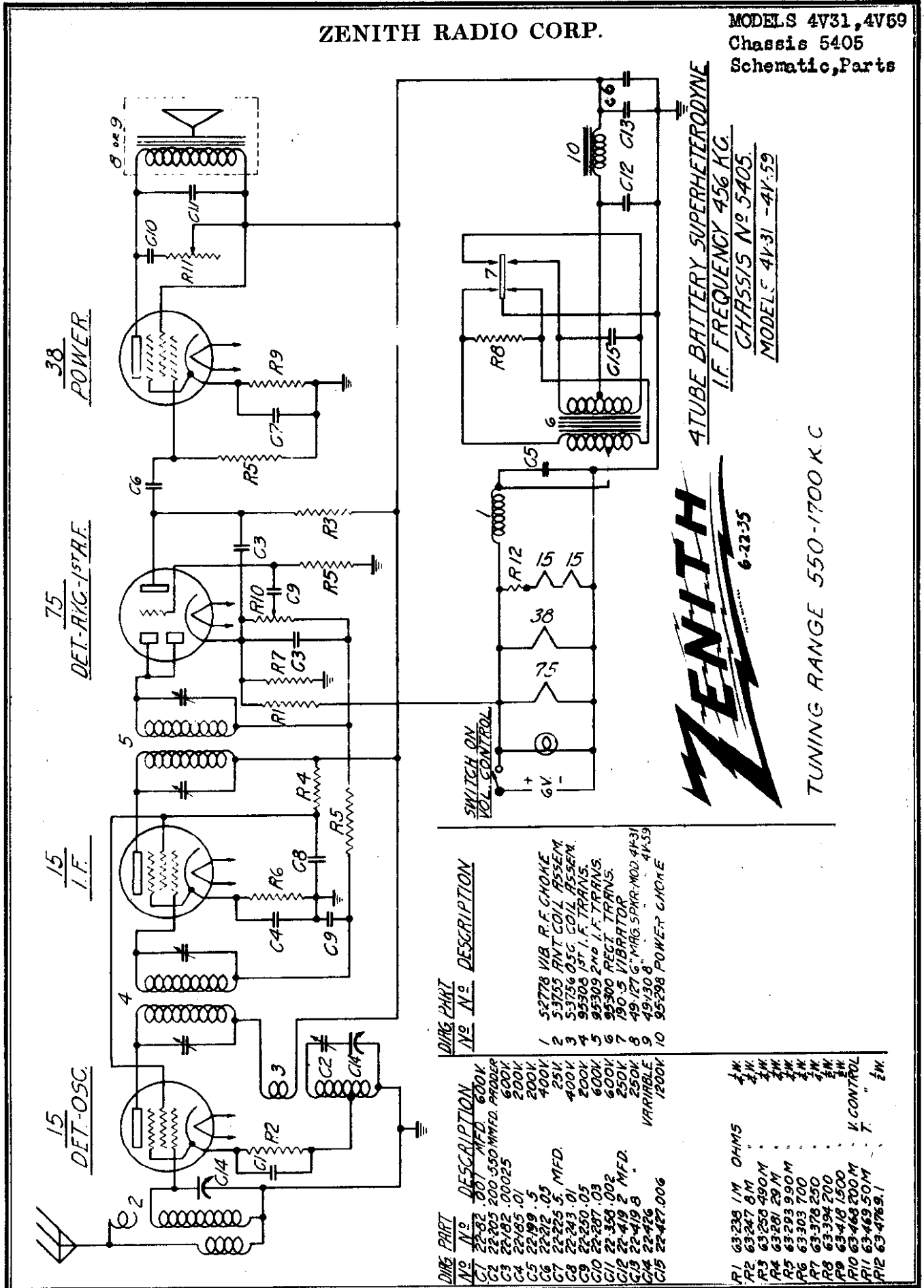


ZENITH RADIO CORP.

MODELS 4V31, 4V59
Chassis 5405
Schematic, Parts



ZENITH
4 TUBE BATTERY SUPERHETERODYNE
IF FREQUENCY 456 KC.
CHASSIS No. 5405
MODELS 4V31 - 4V59
6-22-35

TUNING RANGE 550-1700 K.C.

DIR. PART No.	DESCRIPTION	DIR. PART No.	DESCRIPTION
1	52778 VIB. R.F. CHOKE	1	SWITCH ON VOL. CONTROL
2	53755 RNT. COIL ASSEM.	2	500V
3	53756 OSC. COIL ASSEM.	3	250V
4	95308 1ST I.F. TRANS.	4	400V
5	95309 2ND I.F. TRANS.	5	200V
6	95300 RECT. TRANS.	6	200V
7	190.5 VIBRATOR	7	250V
8	49-127 G. MAG. SPAR. MOD. 4K31	8	250V
9	49130 B	9	VARIABLE
10	95298 POWER CHOKE	10	1200V
R1	63-238 1M OHMS	R11	63-463 200M
R2	63-247 8M	R12	63-476 3.1
R3	63-258 450M		
R4	63-281 20M		
R5	63-293 990M		
R6	63-303 700		
R7	63-378 250		
R8	63-394 200		
R9	63-418 1500		
R10	63-463 200M		
R11	63-463 200M		
R12	63-476 3.1		

Courtesy Nostalgia Air

MODELS 4V31, 4V59

Chassis 5405

Voltage, Socket, Parts
Trimmers, Alignment

ZENITH RADIO CORP.

PARTS AND PRICES
Chassis #5405

Models 4-V-31
4-V-59

TUBE	POSITION	Ef	Ek	Eg1	Eg2	Eg3	Ep
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.

Part No.	Description	Quantity	Unit	Price
7-7	Dial Glass and Scale Bessel 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
76-182	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 " 500 "	1		.12
22-185	.01 " 200 "	1		.20
22-199	.5 " 200 "	1		.35
22-205	200-550 Mmfd. Padner	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	.03 " 500 "	1		.15
22-358	.002 " 300 "	1		.20
22-419	2 x 6 " 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	Watt	.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 A. E. Choke Assembly	1		.15

Socket Voltages

TUBE	POSITION	Ef	Ek	Eg1	Eg2	Eg3	Ep
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

