



TYPE 402 CHASSIS  
CIRCUIT DIAGRAM  
("Drake" and "Nelson" Models)

- SYMBOL
- C1 .25 Mfd. cathod R. F. by-pass condenser
  - C2 .1 Mfd. screen R. F. by-pass condenser
  - C3 .1 Mfd. plate R. F. by-pass condenser
  - C4 .018 Mfd. Det. auto-bias by-pass condenser
  - C5 .0001 Mfd. Det. plate by-pass condenser
  - C6 1 Mfd. Det. cathode bias by-pass condenser
  - C7 .1 Mfd. Det. screen by-pass condenser
  - C8 .02 Mfd. A. F. coupling condenser
  - C9 .05 Mfd. output bias by-pass condenser
  - C10 8 Mfd. Mershen filter condenser
  - C11 8 Mfd. Mershen filter condenser
  - C12 3 gang tuning condenser
  - C13 R. F. resonating condenser
  - R1 5,500 ohm antenna resistance
  - R2 120 ohm R. F. bias resistance
  - R3 615 ohm (vol. cont.) bias resistance
  - R4 5,000 ohm voltage divider resistance
  - R5 5,140 ohm voltage divider resistance
  - R6 3,080 ohm voltage divider resistance
  - R7 550,000 ohm Det. auto-bias resistance
  - R8 35,000 ohm Det. cathode bias resistance
  - R9 250,000 ohm screen voltage drop resistance
  - R10 400,000 ohm Det. plate resistance
  - R11 900,000 ohm A. F. grid leak resistance
  - R12 800,000 ohm resistance
  - R13 1,000,000 ohm resistance

LINE DRAW (at 120 volts)

25 cycle power transformer (all tubes operative) (\*) 60-70 watts  
60 cycle power transformer (all tubes operative) (\*) 52-62 watts

RCC - De Forest Crosley Data Sheet 12 (Upper) - 1931 (IMPROVED)

TYPE OF TUBE	POSITION OF TUBE	TUBE IN TEST SET		
		"A" VOLTS	"B" VOLTS	SCREEN VOLTS
224	RF	2.21	180	90
224	DETC	2.22	150	25
245	AF	2.21	250	*
280	RECT	3.25	A.C.	

POSITION OF VOLUME CONTROL **MAX.**

\* Actually 50 volts. Cannot be measured  
Use plate mil-amps. as indication of correct voltage.