

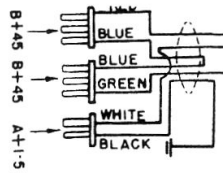
# Rogers Majestic R406 De Forest D806

## Battery Operated Radio

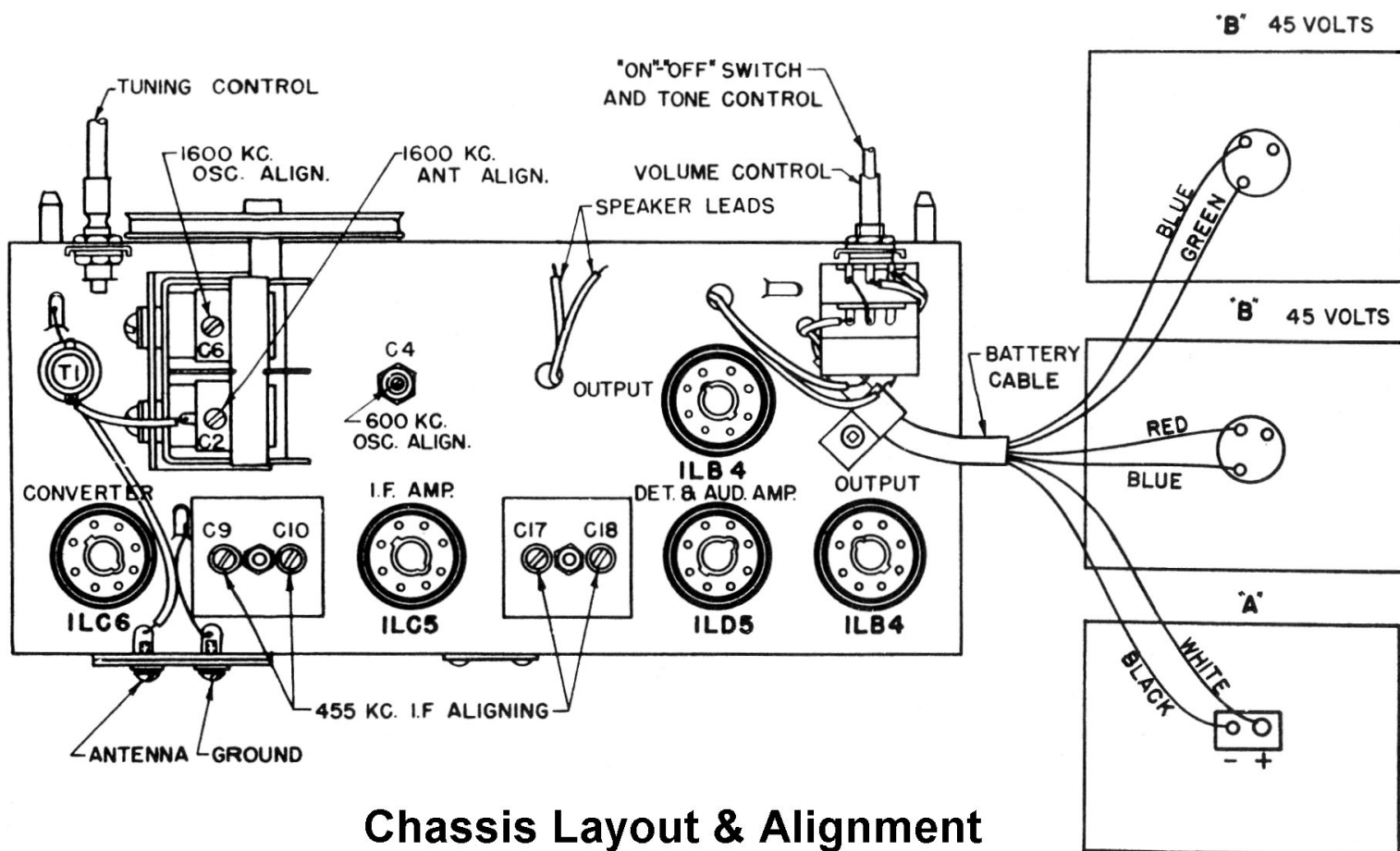
**NOTE:-**  
 ALL VOLTAGES MEASURED TO GROUND.  
 METER SENSITIVITY 20000 OHM/VOLT  
 IF ALIGNMENT FREQUENCY 455 KC - C18, C17, C10, C9  
 OSC. SERIES TRACKING FREQUENCY 600KC - C4  
 OSC AND ANT ALIGN FREQUENCY 1600KC - C6, C2

"A" DRAIN 250 MA.  
 "B" DRAIN 15 MA.

SWITCH ON  
 TONE CONTROL



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**Chassis Layout & Alignment**

## ALIGNMENT

When re-alignment is necessary the following sequence should be used: 2nd I.F. C18-C17, 1st I.F. C10-C9, oscillator and R.F. padders C6-C2, and oscillator series padder C4. When alignment is necessary proper equipment should be available, i.e., a signal generator, an output indicator and, of course, proper aligning tools. Alignment procedure is as follows: (1) Connect the output indicator across the voice coil of the speaker. (2) Connect the output lead of the signal generator to the control grid of the 1LC6 (stator plates of C2) and ground lead to the chassis. (3) Turn gang to minimum capacity. (4) Tune signal generator to 455 kc. and adjust C18, C17 and C10, C9 in that order for maximum deflection on the output indicator. It is important to keep output of signal generator at a low value to avoid overload of detector thus producing a false indication. As the receiver is brought into alignment it will be necessary to gradually decrease the output of the signal generator. (5) Connect output of signal generator to "A" post of receiver and ground lead to "G" post of the receiver. (6) Tune signal generator to 1600 kc. and adjust gang condenser to read exactly 1600 kc. on the dial, then adjust C6 and C2 of maximum deflection on output indicator. (7) Tune signal generator to 600 kc. and adjust receiver to maximum deflection on output indicator (without regard for dial calibration). (8) Adjust 600 kc. series padder C4 (without regard for dial calibration), rocking the tuning control at the same time, until output indicator shows maximum deflection. (9) If, after this adjustment the dial calibration is incorrect, loosen the pointer and reset to exactly 600 kc. (10) Check receiver again at 1400 kc., if calibration is not correct carefully adjust C6 to correct dial calibration, then carefully adjust C4. Recheck C18, C17, C10 and C9.