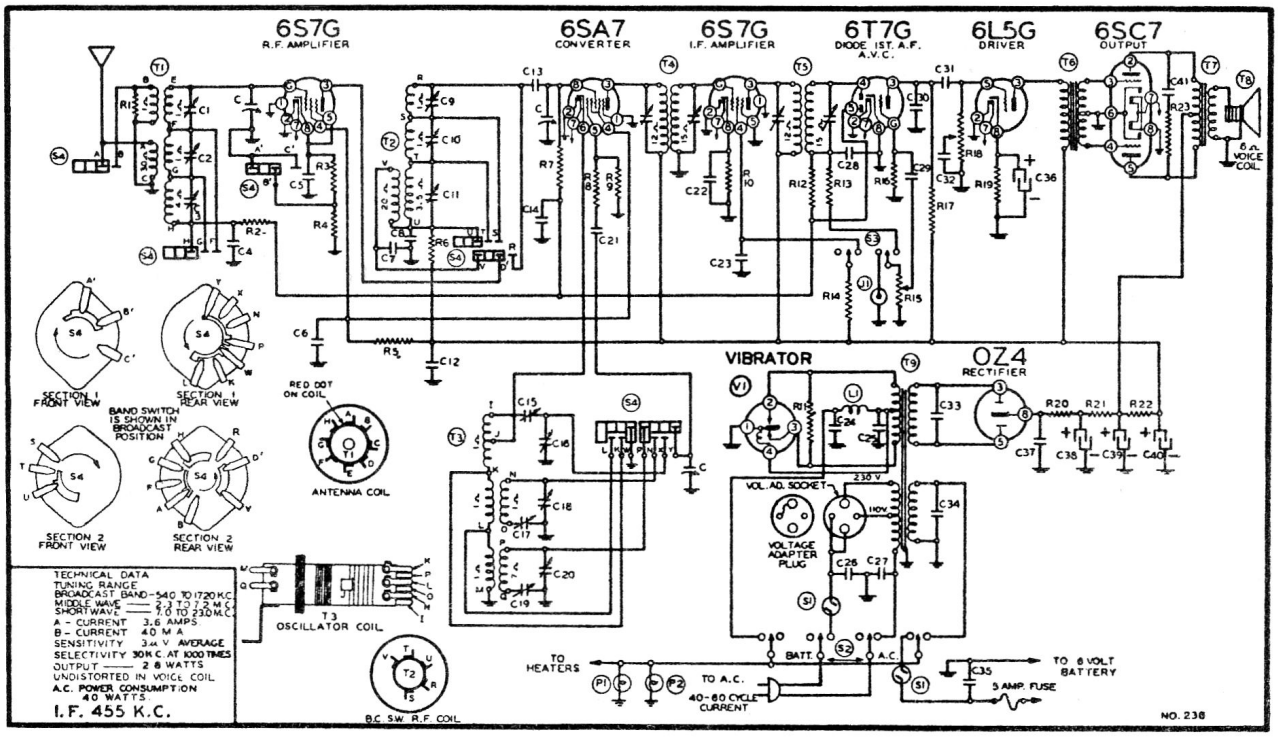
# BELMONT RADIO CORP.

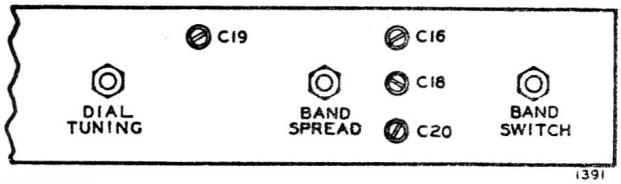



## CONDENSERS

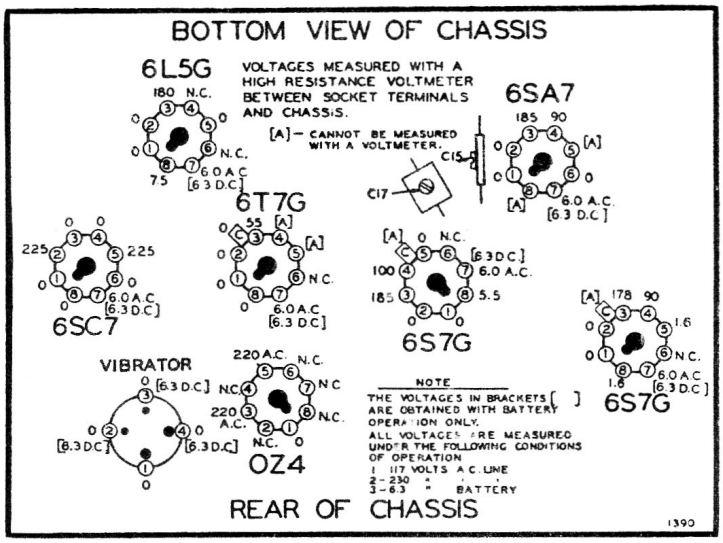
| Part No. | Schematic Diagram Reference | Description | No. Used In Set | Selling Price Each |
|---|---|---|---|---|
| 1001 | C6, C37 | .1 x 400 Volt Tubular Condenser | 2 | .25 |
| 10011 | C26, C27, C31, C32, C34 | .01 x 400 Volt Tubular Condenser | 5 | .25 |
| 10013 | C8, C23 | .05 x 400 Volt Tubular Condenser | 2 | .25 |
| 10020 | C5 | .1 x 200 Volt Tubular Condenser | 1 | .25 |
| 10022 | C4, C22, C35 | .05 x 200 Volt Tubular Condenser | 3 | .25 |
| 10025 | C29 | .002 x 600 Volt Tubular Condenser | 1 | .25 |
| 10026 | C13, C14 | .02 x 400 Volt Tubular Condenser | 2 | .25 |
| 10031 | C24, C25 | .5 x 120 Volt Tubular Condenser | 2 | .60 |
| 10071 | C41 | .004 x 600 Volt Tubular Condenser | 1 | .25 |
| 100100 | C33 | .008 x 1600 Volt Tubular Condenser | 1 | .25 |
| 100117 | C12 | .25 x 400 Volt Tubular Condenser—With Bracket | 1 | .35 |
| 119127 | C36, C38, C39, C40 | Electrolytic Filter Condenser. 40 Mfd. x 25 V.—40 Mfd. x 300 V.—20 Mfd. x 300 V.—20 Mfd. x 300 V. | 1 | 1.50 |
| 124169 | C9, C10, C11 | S.W.—M.W.—B.C.—Triple Unit Antenna Trimmer Condenser Strip | 1 | .60 |
| 124170 | C1, C2, C3 | S.W—M.W.—B C.—Triple Unit Antenna Trimmer Condenser Strip | 1 | .60 |
| 124172 | C16, C18, C20 | S.W.—M.W.—B.C.—Triple Unit Antenna Trimmer Condenser Strip | 1 | .55 |
| 129178 | C19 | B.C. Osc. Series Pad Condenser | 1 | .35 |
| 129179 | C17 | M.W. Osc. Series Pad Condenser | 1 | .45 |
| 129180 | C15 | S.W. Osc. Series Pad Condenser | 1 | .55 |
| 1295 | C21, C28 | .0001 Mica Type Condenser—20% | 2 | .25 |
| 12912 | C30 | .00025 Mica Type Condenser—20% | 1 | .25 |
| 12940 | C7 | .0001 Mica Type Condenser—10% | 1 | .25 |

## RESISTORS

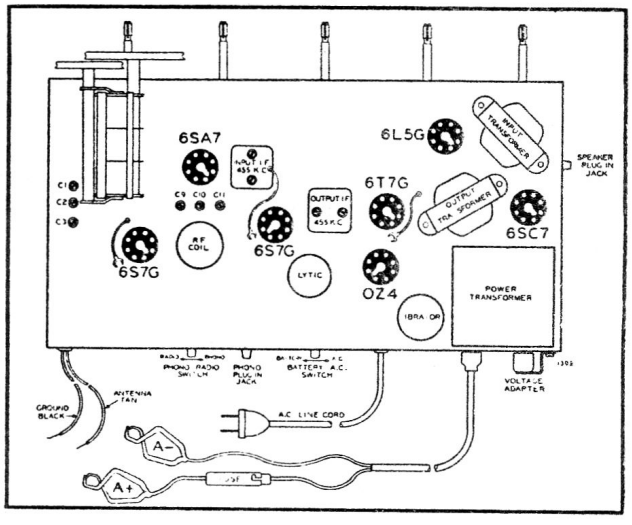
| | | | | |
|---|---|---|---|---|
| 1304 | R12 | 3 Megohm—⅓ Watt Resistor—20% | 1 | .20 |
| 1309 | R17 | 200M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13012 | R13 | 50M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13019 | R7 | 1 Megohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13020 | R2 | 100M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13027 | R20 | 50 Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13031 | R6 | 1500 Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13057 | R9 | 35M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13064 | R4 | 3500 Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 13066 | R14 | 75M Ohm—⅓ Watt Resistor—10% | 1 | .20 |
| 13084 | R11, R21 | 200 Ohm—⅓ Watt Resistor—20% | 2 | .20 |
| 13099 | R3 | 300 Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 130199 | R22 | 1500 Ohm—1 Watt Resistor—10% | 1 | .20 |
| 130235 | R19 | 1500 Ohm—⅓ Watt Resistor—10% | 1 | .20 |
| 130257 | R16 | 5 Megohm—⅓ Watt Resistor—25% | 1 | .20 |
| 130304 | R5 | 12M Ohm —2 Watt Resistor—10% | 1 | .20 |
| 130345 | R10 | 1M Ohm—⅓ Watt Resistor—10% | 1 | .20 |
| 13023 | R1 | 2M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 130149 | R23 | 15M Ohm—⅓ Watt Resistor—20% | 1 | .20 |
| 130327 | R8 | 10 Ohm—⅓ Watt Resistor—20% | 1 | .20 |




**TRIMMER VIEW—Looking at front of chassis.**




**VOLTAGE CHART**




**CHASSIS VIEW showing tube location.**
**NOTE: Antenna and ground leads at back of chassis.**

# BELMONT RADIO CORP.

## ALIGNMENT PROCEDURE MODEL 7H31

- Volume control—Maximum all adjustments.
- Connect radio chassis to ground post of signal generator.

| BAND | SIGNAL GENERATOR Frequency Setting | Dummy Antenna | Connection to Radio | Position of Band Switch | Variable Condenser Setting | Trimmers Adjusted to Max. |
|---|---|---|---|---|---|---|
| I. F. | 455 Kc. | .1 MFD. | Grid of 6S7 I. F. | Broadcast | Tuning & Bandspread Plates out of mesh | Two trimmers on top of Output I. F. |
| | 455 Kc. | .1 MFD. | Grid of 6SA7 I. F. | Broadcast | Tuning & Bandspread Plates out of mesh | Two trimmers on top of Input I. F. |
| SHORT WAVE BAND | 17 Mc. | 400 ohms | Antenna lead | Short Wave | Set Dial at 17 Mc. | Trimmer C16—S. W. osc. (See Note A) |
| | 17 Mc. | 400 ohms | Antenna lead | Short Wave | Set Dial at 17 Mc. | Trimmer C1-C9 S. W. ant. and R. F. |
| | 8 Mc. | 400 ohms | Antenna lead | Short Wave | Set Dial at 8 Mc. | Trimmer C15 S. W. osc. series pad (See note "B") |
| MEDIUM WAVE BAND | 6 Mc. | 400 ohms | Antenna lead | Medium Wave | Set Dial at 6 Mc. | Trimmer C18 M. W. osc. |
| | 6 Mc. | 400 ohms | Antenna lead | Medium Wave | Set Dial at 6 Mc. | Trimmer C2-C10 ant. and R. F. |
| | 2.5 Mc. | 400 ohms | Antenna lead | Medium Wave | Set Dial at 2.5 Mc. | Trimmer C17 osc. series pad (See note "B") |
| BROADCAST BAND | 1720 Kc. | 200 mmf. | Antenna lead | Broadcast | Tuning & Bandspread Plates out of mesh | Trimmer C20 B. C. osc. |
| | 1400 Kc. | 200 mmf. | Antenna lead | Broadcast | Set Dial at 1400 Kc. | Trimmer C3-C11 B. C. ant. R. F. |
| | 600 Kc. | 200 mmf. | Antenna lead | Broadcast | Set Dial at 600 Kc. | Trimmer C19 B. C. osc. series pad (See note "B") |

**NOTE "A"**—It is extremely necessary that the fundamental oscillator signal be tuned in and not the image frequency which will fall below the fundamental.

**NOTE "B"**—Turn the dial back and forth slightly (rock) and adjust trimmer until the peak of greatest intensity is obtained. **After each range is completed, repeat the procedure as a final check.**