



IF PEAK 260 KC.

December, 1934

PART No.

Model 509 — Wiring Diagram

PHILCO Model 509-X is a DeLuxe Radio-Phonograph mounted in a cabinet especially designed to promote high-fidelity reproduction. The Radio chassis is practically identical with Model 201 (see Service Bulletin No. 209), which incorporates high-fidelity reproduction and covers both the standard broadcast band (540-1720 K.C.) of frequencies and a major portion (4.2-12 megacycles) of the short-wave band.

For Service Data on the Phonograph and part numbers of the replaceable parts, refer to Service Bulletin No. 165-E on Model 501 Radio Phonograph, which uses the same type pick-up and automatic Record Changer mechanism.

Note that Part (98), Resistor, 15000 ohms (Part 6208) is omitted in Model 509-X; also the value of the condenser (91) in the bass compensator becomes .03 mfd. instead of .07, and a four-point tone control is added for the phonograph. The control knob for this is on the radio control panel.

Also note that the B. C. resistor (88) has an additional tap in Model 509 and the circuit to it has been slightly changed from that shown in wiring diagram of Model 201 (Bulletin 209).

Other parts in Model 509-X, which differ from those in Models 201 and 501 are as follows: Diagram No. 102, Electrolytic condenser, part No. 30-2014; Diagram No. 104, Power Transformer, Part No. 32-7259; Diagram No. 91, .03 mf. condenser (bass comp.), Part No. 8318-F.

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|-------|------------------------------|---------------|
| (106) | Pick-up and Tone Arm Assem | 35-2009 |
| (107) | Tone control (4-position) | 30-4289 |
| (108) | Condensers in tone control | Part of (107) |
| (109) | Resistor (10,000 ohms) | 33-1000 |
| (110) | Radio phonograph switch | 42-1053 |
| (111) | Phonograph Motor — | |
| | 115 volts, 60 cycles | 35-1092 |
| | 115 volts, 25 cycles | 35-1095 |
| (112) | Phonograph on-off switch | 35-1044 |
| (113) | Condenser (.001 mfd. mica) | 30-1007 |
| | Field coil and pot assembly | 36-3088 |
| | Voice coil and cone assembly | 36-3381 |
| | Output transformer | 32-7247 |