



# SCHEMATIC DIAGRAM

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## COMPONENT VALUES

All resistors are 1/4 watt, 5% unless otherwise indicated.

|       |  |        |                                |  |        |
|-------|--|--------|--------------------------------|--|--------|
| R 1   | 150 ohms, 1 watt, 5%                   | 116151 | C 2                            | 1.5 mfd, 100 v., 5%, mylar               | 264155 |
| R 2   | 56,000 ohms, 1/2 watt, 5%              | 113356 | C 3                            | 470 pf, 500 v., 5% mica                  | 257471 |
| R 3   | 412 ohms, 1/8 watt, 1%                 | 130412 | C 4                            | 15 pf, 5%, NPO disc                      | 234150 |
| R101  | 820 ohms, 5 watt, 10%                  | 120821 | C 5                            | .0082 mfd, 1400 v., disc                 | 238822 |
| R102  | 1,000 ohms, 5 watt, 10%                | 120107 | C 6                            | .0082 mfd, 1400 v., disc                 | 238822 |
| R103  | 2,200 ohms                             | 119222 | C 7                            | .01 mfd, 500 v., disc                    | 228103 |
| R104  | 2,200 ohms                             | 119222 | C 8                            | 220 pf, 500 v., 5%, mica                 | 245221 |
| R201  | 150,000 ohms                           | 119154 | C101                           | 100 mfd, 16 v., electrolytic             | 281101 |
| R202  | 470 ohms, 1/8 watt, 5%, metal film     | 130471 | C102                           | 100 mfd, 16 v., electrolytic             | 281101 |
| R203  | 100,000 ohms, 1/8 watt, 5%, metal film | 130105 | C103                           | 220-250 mfd, 100 v., electrolytic        | 284251 |
| R204  | 10,000 ohms, 1/8 watt, 5%, metal film  | 130103 | C104                           | 220-250 mfd, 100 v., electrolytic        | 284251 |
| R205  | 470 ohms, 1/8 watt, 5%, metal film     | 130471 | C105                           | .1 mfd, 100 v., disc                     | 224104 |
| R206  | 27,000 ohms, 1/8 watt, 5%, metal film  | 130273 | C106                           | 1 mfd, 50 volt, electrolytic             | 283103 |
| R207  | 18,000 ohms, 1/8 watt, 5%, metal film  | 130183 | C107                           | 220-250 mfd, 100 v., electrolytic        | 284251 |
| R208  | 10,000 ohms, 1/8 watt, 5%, metal film  | 130103 | C108                           | .01 mfd, 500 v., disc                    | 228103 |
| R209  | 100 ohms, 1/8 watt, 5%, metal film     | 130101 | C109                           | .01 mfd, 100 v., disc                    | 234103 |
| R210  | 2,200 ohms, 1/8 watt, 5%, metal film   | 130222 | C201                           | 10 mfd, 16 v., tantalum                  | 282100 |
| R211  | 470 ohms, 1/8 watt, 5%, metal film     | 130471 | C202                           | 47 pf, 1000 v., disc                     | 224470 |
| R212  | 27,000 ohms, 1/8 watt, 5%, metal film  | 130273 | C203                           | 1000 mfd, 6-10 v., electrolytic          | 281102 |
| R213  | 470,000 ohms                           | 119474 | C204                           | 2700 pf, 500 v., 2%, mica                | 257272 |
| R214  | 68,000 ohms, 1/8 watt, 5%, metal film  | 130683 | C205                           | 8200 pf, 500 v., 2%, mica                | 257822 |
| R215  | 1,000 ohms                             | 119102 | C206a                          | 100 mfd, 50 v., electrolytic             | 284101 |
| R216  | 470,000 ohms                           | 119474 | C206b                          | 100 mfd, 50 v., electrolytic             | 283107 |
| R217  | 220,000 ohms                           | 119222 | C207                           | 1.5 mfd, 50 v., tantalum                 | 283155 |
| R301  | 100,000 ohms                           | 119104 | C301                           | 11 mfd, 15 v., N.P. tantalum             | 281115 |
| R302  | 1,200 ohms                             | 119122 | C302                           | .01 mfd, 100 v., disc                    | 234103 |
| R303  | 100,000 ohms                           | 119104 | C303                           | 12 pf, 1000 v., 5%, disc                 | 244120 |
| R304  | 1,000 ohms                             | 119102 | C304                           | .01 mfd, 100 v., disc                    | 234103 |
| R305  | 10,000 ohms                            | 119103 | C305                           | 100 mfd, 16-25 v., electrolytic          | 281101 |
| R306  | 470,000 ohms                           | 119474 | C306                           | .01 mfd, 100 v., disc                    | 234103 |
| R307  | 1,000 ohms                             | 119102 | C307                           | 11 mfd, 15 v., N.P. tantalum             | 281115 |
| R308  | 1,000 ohms                             | 119102 | C308                           | 10 mfd, 16 v., tantalum                  | 282100 |
| R309  | 150,000 ohms                           | 119154 | C309                           | 10 pf, 1000 v., disc                     | 234100 |
| R310  | 120,000 ohms                           | 119124 | C310                           | .022 mfd, 100 v., 5%, mylar              | 260223 |
| R311  | 120,000 ohms                           | 119124 | C311                           | .0047 mfd, 100 v., 5%, mylar             | 264472 |
| R312  | 2,200 ohms                             | 119222 | C312                           | 10 mfd, 16 v., tantalum                  | 282100 |
| R313  | 1,000 ohms                             | 119102 | C313                           | .001 mfd, 300 v., 5%, mica               | 255102 |
| R314  | 10,000 ohms                            | 119103 | C314                           | 6 mfd, 15 v., N.P. tantalum              | 281605 |
| R315  | 10,000 ohms                            | 119103 | C315                           | .15 mfd, 100 v., 10%, mylar              | 265154 |
| R316  | 150,000 ohms                           | 119154 | C316                           | .01 mfd, 100 v., disc                    | 234103 |
| R317  | 4,700 ohms                             | 119472 | C317                           | .01 mfd, 100 v., disc                    | 234103 |
| R318  | 51,000 ohms                            | 119513 | C318                           | 10 pf, 1000 v., disc                     | 234100 |
| R319  | 1,000,000 ohms                         | 119105 | C319                           | 68 pf, 500 v., disc                      | 237680 |
| R320  | 470,000 ohms                           | 119474 | C320                           | 12 pf, 1000 v., 5%, disc                 | 244120 |
| R321  | 470,000 ohms                           | 119474 | C321                           | 60 mfd, 10 v., N.P. tantalum             | 281606 |
| R322  | 10,000 ohms                            | 119103 | C322                           | 6 mfd, 15 v., N.P. tantalum              | 281605 |
| R323  | 10,000 ohms                            | 119103 | C323                           | .047 mfd, 100 v., 5%, mylar              | 264473 |
| R324  | 10,000 ohms                            | 119103 | C324                           | .47 mfd, 100 v., 5%, mylar               | 260474 |
| R325  | 10,000 ohms                            | 119103 | C325                           | 820 pf, 100 v., 5%, mica                 | 254821 |
| R326  | 1,000 ohms                             | 119102 | C326                           | .0082 mfd, 100 v., 5%, mylar             | 264822 |
| R327  | 1,000 ohms                             | 119102 | C327                           | .01 mfd, 100 v., disc                    | 234103 |
| R328  | 4,700 ohms                             | 119472 | C328                           | .01 mfd, 100 v., disc                    | 234103 |
| R329  | 560 ohms                               | 119561 | C329                           | 120 pf, 1000 v., disc                    | 228121 |
| R330  | 2,000,000 ohms                         | 119205 | D101                           | Zener diode, 15 v., 1 w., 5% (1N4744A)   | 540115 |
| R331  | 750 ohms                               | 119751 | D102                           | Zener diode, 15 v., 1 w., 5% (1N4744A)   | 540115 |
| Q101  | NPN Transistor, SE6020                 | 577021 | D103                           | Zener diode, 43 v., 0.5 w., 5% (1N5260B) | 540543 |
| Q201  | NPN Transistor, BC414C                 | 577019 | D104                           | Silicon diode, 200 ma, 200 prv           | 544012 |
| Q202  | NPN Transistor, BC414B                 | 577015 | D105                           | Silicon diode, 200 ma, 200 prv           | 544012 |
| Q301  | PNP Transistor, EN3962                 | 562962 | D106                           | Silicon diode, 200 ma, 200 prv           | 544012 |
| Q302  | NPN Transistor, SE4020                 | 572020 | D107                           | Silicon diode, 200 ma, 200 prv           | 544012 |
| Q303  | NPN Transistor, SE4010                 | 572010 | Volume control,                | 15,000 ohms                              | 160153 |
| Q304  | NPN Transistor, BC 239C                | 577018 | Balance control,               | 30,000 ohms                              | 160303 |
| IC301 | Integrated Circuit, LF357              | 587740 | Bass control,                  | 100,000 ohms                             | 160104 |
| C 1   | .01 mfd, 100 v., disc                  | 234103 | Treble control,                | 100,000 ohms                             | 160104 |
|       |  |        | Power transformer              |  | 464080 |
|       |  |        | Fuse, 1/4 ampere, slo-blo, 3AG |  | 342009 |