





SCHEMATIC DIAGRAM
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SCHEMATIC DIAGRAM COMPONENT VALUES

All resistors are ¼ watt, 5% unless otherwise indicated.

| | | PART # | | | PART # |
|------|--------------|--------|-------|---------------------|--------|
| R101 | 470 ohms | 119471 | R209 | 100 ohms | 119101 |
| R102 | 1,000 ohms | 119102 | R210 | 22,000 ohms | 119223 |
| R103 | 120,000 ohms | 119124 | R211 | 6,200 ohms | |
| R104 | 10,000 ohms | 119103 | | 5% ½ watt film | 133622 |
| R105 | 470 ohms | 119471 | R212 | 220 ohms | 119221 |
| R106 | 470 ohms | 119471 | R213 | 130 ohms | 119131 |
| R107 | 18,000 ohms | 119183 | R214 | 150 ohms | 119151 |
| R108 | 3,900 ohms | 119392 | R215 | 100 ohms | 119101 |
| R109 | 15,000 ohms | 119153 | R216 | 22 ohms | 119220 |
| R110 | 10,000 ohms | 119103 | R217 | 1,000 ohms | 119102 |
| R111 | 100,000 ohms | 119104 | R218 | 2,200 ohms | 119222 |
| R112 | 680 ohms | 119681 | R219 | 1,000 ohms | 119102 |
| R113 | 100,000 ohms | 119104 | R220 | 39 ohms | 119390 |
| R114 | 100,000 ohms | 119104 | R221 | 39 ohms | 119390 |
| R115 | 10,000 ohms | 119103 | R222 | 2,400 ohms | 119242 |
| R116 | 10,000 ohms | 119103 | R223 | 2,400 ohms | 119242 |
| R117 | 5,100 ohms | 119512 | R224 | 10 ohms AB | 119100 |
| R118 | 10,000 ohms | 119103 | R225 | 100 ohms | 119101 |
| R119 | 100 ohms | 119101 | R226 | 100 ohms | 119101 |
| R120 | 100 ohms | 119101 | R227 | 10 ohms AB | 119100 |
| R121 | 2,200 ohms | 119222 | R228 | 1,000 ohms | |
| R122 | 8,200 ohms | 119822 | | 5% 2 watt | 110102 |
| R126 | 620 ohms | 119621 | R229 | 750 ohms | |
| R127 | 100 ohms | 119101 | | 5% 2 watt | 110751 |
| R128 | 150,000 ohms | 119154 | R230 | 300 ohms | |
| R129 | 150,000 ohms | 119154 | | 5% 1 watt | 116301 |
| R130 | 1,000 ohms | 119102 | R231 | 300 ohms | |
| R131 | 7,500 ohms | 119752 | | 5% 1 watt | 116301 |
| R132 | 390,000 ohms | 119394 | R232 | 750 ohms | |
| R133 | 390,000 ohms | 119394 | | 5% 2 watt | 110751 |
| R134 | 1,000 ohms | 119102 | R233 | 1,000 ohms | |
| R135 | 7,500 ohms | 119752 | | 5% 2 watt | 110102 |
| R136 | 3,300 ohms | 119332 | R235 | 47 ohms | |
| R137 | 3,300 ohms | 119332 | | 5% ½ watt AB | 103470 |
| R138 | 47,000 ohms | 119473 | R236 | 47 ohms | |
| R139 | 5,600 ohms | 119562 | | 5% ½ watt AB | 103470 |
| R140 | 5,600 ohms | 119562 | R237 | 47 ohms | |
| R141 | 10,000 ohms | 119103 | | 5% ½ watt AB | 103470 |
| R142 | 200 ohms | | R238 | 47 ohms | |
| | 5% 2 watt | 110201 | | 5% ½ watt AB | 103470 |
| R143 | 200,000 ohms | 119204 | R244 | 6,800 ohms | |
| R144 | 100,000 ohms | 119104 | | 5% ½ watt | 113682 |
| R145 | 390,000 ohms | 119394 | R245 | 39 ohms | 119390 |
| R146 | 2,200 ohms | 119222 | R246 | 39 ohms | 119390 |
| R147 | 2,700 ohms | 119272 | | | |
| | | | R301 | 0.18 ohms | |
| R201 | 1,000 ohms | 119102 | | 3% 10 watt | 120180 |
| R202 | 22,000 ohms | 119223 | R302 | 0.18 ohms | |
| R203 | 33,000 ohms | 119333 | | 3% 10 watt | 120180 |
| R204 | 33,000 ohms | 119333 | R304 | 1,000 ohms | |
| R205 | 4,700 ohms | 119472 | | 10% 5 watt | 120107 |
| R206 | 2,200 ohms | 119222 | R305 | 10 ohms | |
| R207 | 2,200 ohms | 119222 | | 10% 10 watt (part | |
| R208 | 100,000 ohms | 119104 | | of L301 assembly) | 453001 |
| | | | R306 | 10 ohms | |
| | | | | 10% 5 watt | 121105 |
| | | | R307 | 600 ohms | |
| | | | | 10% 10 watt | 120601 |
| | | | R308 | 850 ohms | |
| | | | | 10% 10 watt | 120851 |
| | | | R309 | 110 ohms | 119111 |
| | | | R310 | 270 ohms | 119271 |
| | | | R311 | 360 ohms | 119361 |
| | | | R312 | 7,500 ohms | 119752 |
| | | | R313 | 7,500 ohms | 119752 |
| | | | R314 | 15,000 ohms | 119153 |
| | | | R315 | 12,000 ohms | 119123 |
| | | | R316 | 1,000 ohms ½ watt | 113102 |
| | | | R317 | 100,000 ohms ½ watt | 102104 |
| | | | R318 | 3.3 ohms | 103030 |
| | | | BR301 | AC line breaker | |
| | | | | 10A | 342700 |
| | | | BR302 | thermal sensor | |
| | | | | 85°C 15A | 342001 |
| | | | BR303 | thermal sensor | |
| | | | | 85°C 15A | 342001 |
| | | | BR304 | AC line breaker 5A | 342701 |
| | | | C101 | 4.7 mfd 15v 20% | |
| | | | | tantalum | 282505 |
| | | | C102 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C103 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C104 | 12 mmfd disc | 244120 |
| | | | C105 | 10 mfd 15v | 281106 |
| | | | C106 | .0082 mfd 100v 5% | |
| | | | | mylar | 264822 |
| | | | C107 | .0082 mfd 100v 5% | |
| | | | | mylar | 264822 |
| | | | C108 | .47 mfd 100v 10% | |
| | | | | mylar | 260474 |
| | | | C109 | .47 mfd 100v 10% | |
| | | | | mylar | 260474 |
| | | | C110 | 35 mfd 30v | |
| | | | | non-polarized | 283366 |
| | | | C111 | 5 mfd 15v | 283505 |
| | | | C112 | 5 mfd 15v | 283505 |
| | | | C113 | 500 mfd 3v | 281507 |
| | | | C114 | 50 mfd 10v | 281506 |
| | | | C115 | 50 mfd 10v | 281506 |
| | | | C116 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C117 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C118 | .47 mfd 100v 5% | 260474 |
| | | | C119 | .47 mfd 100v 5% | 260474 |
| | | | C120 | .47 mfd 100v 5% | 260474 |
| | | | C121 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C122 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C123 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |
| | | | C124 | .01 mfd 100v 20% | |
| | | | | disc | 234103 |

| PART # | | | PART # | | | PART # | | |
|--------|-----------------------------|--------|--------|--------------------------------------|--------|--------|-------------------------------------------|--------|
| C125 | 200 mfd 3v | 281207 | D108 | silicon diode 1N4148 | 543148 | P201 | 1,000 ohms trimpot | 190103 |
| C126 | 470 mfd 12v | 283507 | D109 | silicon diode 1N4148 | 543148 | P202 | 1,000 ohms trimpot | 190103 |
| C201 | 5 mfd 15v tantalum | 282505 | D110 | silicon diode 1N4148 | 543148 | P301 | 100,000 ohms 1/2 watt linear | 142104 |
| C202 | .1 mfd 100v 20% disc | 224104 | D111 | silicon diode 1N4148 | 543148 | PL301 | neon lamp | 521021 |
| C203 | .1 mfd 100v 20% disc | 224104 | D112 | silicon diode 1A 200prv 1N4003 | 544012 | PL302 | neon lamp | 521021 |
| C204 | 50 mfd 10v non-polarized | 282506 | D201 | silicon diode 1N4148 | 543148 | PL303 | #53 lamp | 526053 |
| C205 | 180 mmfd 100v 10% | 224181 | D202 | silicon diode 1N4148 | 543148 | Q101 | transistor EN3962 | 562962 |
| C206 | .47 mfd 100v 5% | 260474 | D203 | silicon diode 1N4148 | 543148 | Q102 | transistor SE4010 | 572010 |
| C207 | 320 mfd 6v | 281327 | D204 | silicon diode 1N4148 | 543148 | Q104 | thyristor 2N5061 | 574061 |
| C208 | 47 mmfd 100v 10% disc | 224470 | D205 | zener diode 14v .4w 5% | 540014 | Q105 | transistor FT4356 | 562356 |
| C209 | .1 mfd 100v 20% disc | 224104 | D206 | silicon diode 1N4148 | 543148 | Q106 | transistor 2N4889 | 562889 |
| C210 | .001 mfd 100v 10% disc | 240102 | D207 | silicon diode 1N4148 | 543148 | Q201 | transistor 2N4889 | 562889 |
| C211 | 82 mmfd 100v 10% disc | 224820 | D208 | silicon diode 1N4148 | 543148 | Q202 | transistor 2N4889 | 562889 |
| C212 | .001 mfd 100v 10% disc | 240102 | D209 | silicon diode 1N4148 | 543148 | Q203 | transistor 2N4889 | 562889 |
| C213 | 200 mfd 15v | 283207 | D301 | silicon diode 1A 200prv | 544012 | Q204 | transistor 2N3440 | 572440 |
| C214 | 200 mfd 15v | 283207 | D302 | silicon diode 1A 200prv | 544012 | Q205 | transistor 2N3440 | 572440 |
| C215 | .001 mfd 100v 10% disc | 240102 | D304 | zener diode 13v 1w 5% | 540113 | Q206 | transistor 2N3440 | 572440 |
| C217 | .001 mfd 100v 10% disc | 240102 | D305 | zener diode 13v 1w 5% | 540113 | Q207 | transistor 2N5415 | 562415 |
| C218 | 180 mmfd 100v 10% | 224181 | DB301 | silicon diode bridge 25A | 544504 | Q208 | transistor BC308B | 567070 |
| C219 | .022 mfd 100v 10% | 264223 | F301 | fuse 5A 3AG | 342006 | Q209 | transistor SE6020A | 577021 |
| C220 | .022 mfd 100v 10% | 264223 | F302 | fuse 6A 8AG | 342025 | Q210 | transistor SE6020A | 577021 |
| C301 | .1 mfd 100v 20% disc | 224104 | F303 | fuse 6A 8AG | 342025 | Q211 | transistor BC308B | 567070 |
| C302 | 500 mfd 15v | 281508 | IC101 | IC NE5558 | 587458 | Q212 | transistor TIP41C | 577041 |
| C303 | 500 mfd 15v | 281508 | IC102 | IC LM301AH | 587709 | Q213 | transistor TIP41C | 577041 |
| C304 | 10,000 mfd 80v | 284109 | IC103 | IC LM301AH | 587709 | Q214 | transistor TIP42C | 567042 |
| C305 | .1 mfd 100v 20% disc | 224104 | L301 | choke assembly (wound on R305) | 453001 | Q215 | transistor TIP42C | 567042 |
| C306 | 10,000 mfd 80v | 284109 | M301 | meter, dB, 3 1/2" | 508028 | Q301 | transistor 2N5630 | 571104 |
| C307 | .1 mfd 100v 20% disc | 224104 | P101 | 470 ohms trimpot | 140471 | Q302 | transistor 2N5630 | 571104 |
| C308 | .1 mfd 100v 20% disc | 224104 | | | | Q303 | transistor 2N6030 | 561356 |
| C309 | .01 mfd 1000v disc | 228103 | | | | Q304 | transistor 2N6030 | 561356 |
| D101 | silicon diode 1N4148 | 543148 | | | | RY301 | relay DPST 15A 48v coil | 539248 |
| D102 | silicon diode 1N4148 | 543148 | | | | S101 | switch 8PDT dual | 338000 |
| D103 | dual silicon diode BZ102 | 546361 | | | | S301 | switch DPTT rotary 15A | 333241 |
| D104 | silicon diode 1N4148 | 543148 | | | | S302 | switch DP5T rotary | 333025 |
| D105 | silicon diode 1N4148 | 543148 | | | | S303 | switch DP4T rotary | 333020 |
| D106 | silicon diode 1N4148 | 543148 | | | | T301 | power transformer | 464026 |
| D107 | silicon diode 1N4148 | 543148 | | | | T302 | power transformer, international model | 464030 |