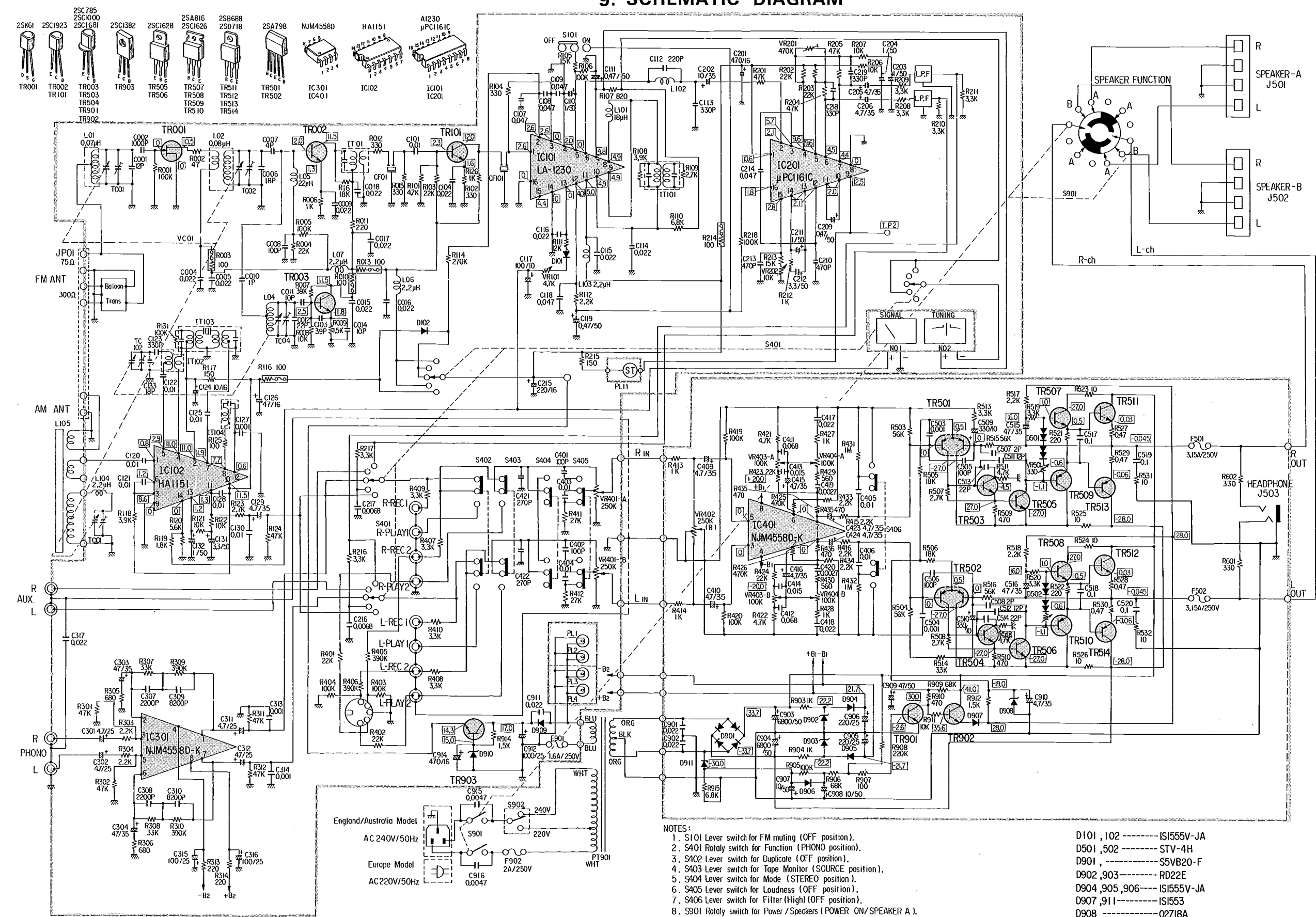


9. SCHEMATIC DIAGRAM



- NOTES:
- S101 Lever switch for FM muting (OFF position).
 - S401 Rotary switch for Function (PHONO position).
 - S402 Lever switch for Duplicate (OFF position).
 - S403 Lever switch for Tape Monitor (SOURCE position).
 - S404 Lever switch for Mode (STEREO position).
 - S405 Lever switch for Loudness (OFF position).
 - S406 Lever switch for Filter (High) (OFF position).
 - S901 Rotary switch for Power / Speakers (POWER ON/SPEAKER A).
 - S902 Switch for Voltage change (240V position).
 - Resistance values are indicated in ohm unless otherwise noted (K=1000, M=1000K).
 - Capacitance values are indicated in microfarads unless otherwise specified (P= micro-microfarads).
 - Voltage values are indicated in volts.
- D101, 102 ----- IS1555V-JA
 D501, 502 ----- STV-4H
 D901, ----- S5VB20-F
 D902, 903 ----- RD22E
 D904, 905, 906 ----- IS1555V-JA
 D907, 911 ----- IS1553
 D908 ----- 02Z18A
 D909 ----- IS1885
 D910 ----- 02Z15A

Figure 20.

FM MPX ADJUSTMENT

Test Equipments/Tools required

- | | |
|----------------------|-----------------------------|
| 1. Frequency counter | 4. VTVM |
| 2. Signal generator | 5. 300 ohm FM dummy antenna |
| 3. Stereo modulator | 6. Oscilloscope |

Pilot signal adjustment	Connect a frequency counter to the Test Point (TP1), and adjust the VR202 for 19 kHz reading with no-signal input.
Separation adjustment	Receive the stereo signal and adjust the VR201 for maximum channel separation. Note: Signal frequency: 98 MHz Frequency deviation: Pilot Signal 7.5 kHz L and R signals: 33.75 kHz

SIGNAL METER ADJUSTMENT (FM)

Connection	Signal Generator	Adjustment
Connect signal generator to FM antenna terminal. See figure 15.	Frequency: 98 MHz SG output: 126 dB	Adjust the VR101 so that the signal meter indicates 4.5 ~ 5.0

CAUTION: When realigning the FM Receiving Frequency, the lowest side of the frequency range must not be below 87.5 MHz in order to comply with FTZ regulations in West Germany.

IDLING ADJUSTMENT

R Channel

1. Connect a tester to test Pins A(-) and A(+).
2. Adjust the semi-fixed Resistor (VR501) so that the tester indicates 25mV ± 5mV.

L Channel

3. Connect a tester to test Pins B(-) and B(+).
4. Adjust the semi-fixed Resistor (VR502) so that the tester indicates 25mV ± 5mV.

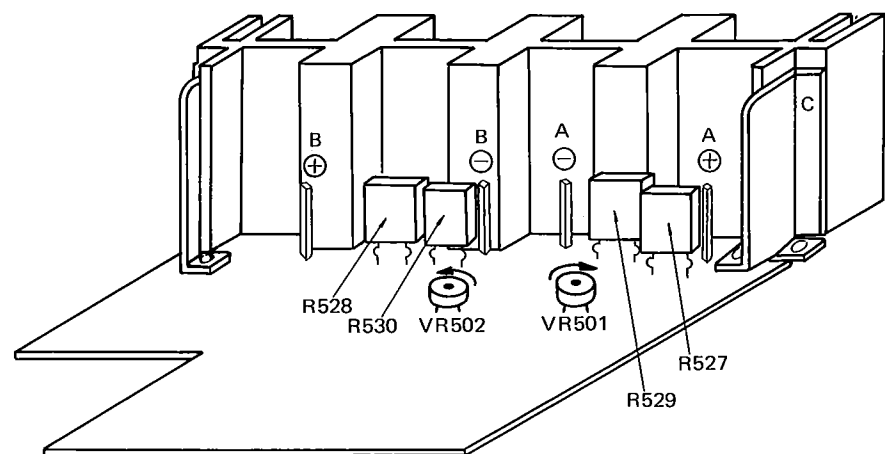


Figure 16.

BOTTOM VIEW OF POWER UNIT

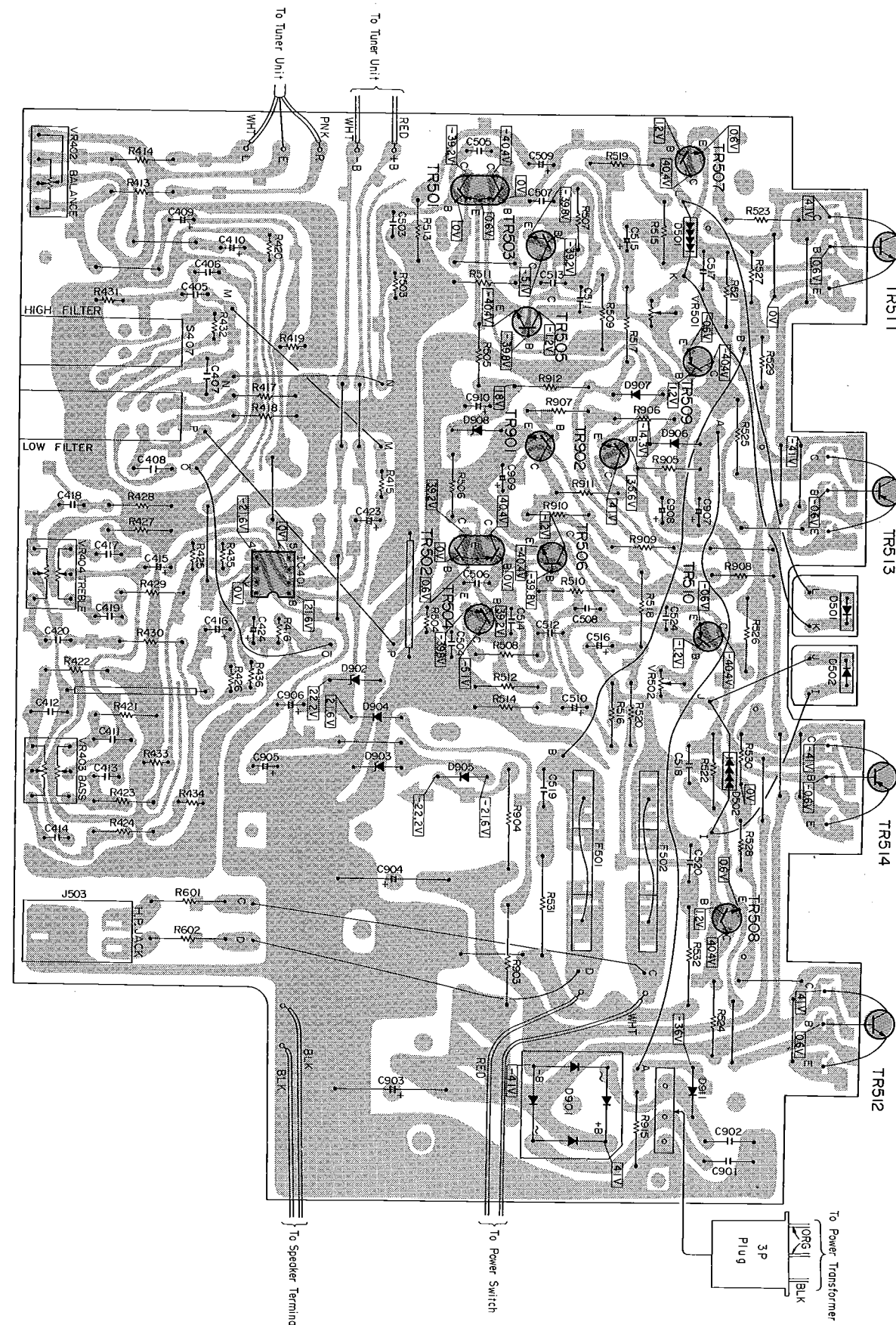


Figure 18.

P.C. BOARD PARTS LOCATIONS

Symbol No.	Part No.	Description
CAPACITORS		
J = ±5%, K = ±10%, M = ±20%, D = ±0.5pF, Z = -20+80%		
C001	22360315	Ceramic, 12pF, 50V, J
C002	22343102	Ceramic, 1000pF, 50V, M
C004	22342223	Ceramic, 0.022mfd, 50V, Z
C005	22342223	Ceramic, 0.022mfd, 50V, Z
C006	22360159	Ceramic, 18pF, 50V, J
C007	22361409	Ceramic, 4pF, 50V, D
C008	22362101	Ceramic, 100pF, 50V, K
C009	22342223	Ceramic, 0.022mfd, 50V, Z
C010	22361109	Ceramic, 1pF, 50V, D
C011	22360310	Ceramic, 10pF, 50V, D
C012	22360091	Ceramic, 22pF, 50V, J
C014	22360314	Ceramic, 10pF, 50V, D
C015	22342223	Ceramic, 0.022mfd, 50V, Z
C016	22342223	Ceramic, 0.022mfd, 50V, Z
C017	22342223	Ceramic, 0.022mfd, 50V, Z
C018	22342223	Ceramic, 0.022mfd, 50V, Z
C101	22342103	Ceramic, 0.01mfd, 50V, Z
C103	22360137	Ceramic, 39pF, 50V, J
C104	22342223	Ceramic, 0.022mfd, 50V, Z
C107	22342473	Ceramic, 0.047mfd, 50V, Z
C108	22342473	Ceramic, 0.047mfd, 50V, Z
C109	22342473	Ceramic, 0.047mfd, 50V, Z
C110	22448109	Electrolytic, 1mfd, 50V
C111	22448478	Electrolytic, 0.47mfd, 50V
C112	22362221	Ceramic, 220pF, 50V, K
C113	22362331	Ceramic, 330pF, 50V, K
C114	22342223	Ceramic, 0.022mfd, 50V, Z
C115	22342223	Ceramic, 0.022mfd, 50V, Z
C116	22342223	Ceramic, 0.022mfd, 50V, Z
C117	22443101	Electrolytic, 100mfd, 10V
C118	22342473	Ceramic, 0.047mfd, 50V, Z
C119	22448478	Electrolytic, 0.47mfd, 50V
C120	22342103	Ceramic, 0.01mfd, 50V, Z
C121	22342103	Ceramic, 0.01mfd, 50V, Z
C122	22342103	Ceramic, 0.01mfd, 50V, Z
C123	22362331	Ceramic, 330pF, 50V, K
C124	22445100	Electrolytic, 10mfd, 16V
C125	22342103	Ceramic, 0.01mfd, 50V, Z
C126	22445470	Electrolytic, 47mfd, 16V
C127	22343102	Ceramic, 0.001mfd, 50V, M
C128	22342103	Ceramic, 0.01mfd, 50V, Z
C129	22447479	Electrolytic, 4.7mfd, 35V
C130	22372103	Mylar, 0.01mfd, 50V, K
C131	22448339	Electrolytic, 3.3mfd, 50V
C132	22448109	Electrolytic, 1mfd, 50V
C133	22360178	Ceramic, 18pF, 50V, J
C201	22445471	Electrolytic, 470mfd, 16V
C202	22447100	Electrolytic, 10mfd, 35V
C203	22448109	Electrolytic, 1mfd, 50V
C204	22448109	Electrolytic, 1mfd, 50V
C205	22447479	Electrolytic, 4.7mfd, 35V

Symbol No.	Part No.	Description
C206	22447479	Electrolytic, 4.7mfd, 35V
C209	22448478	Electrolytic, 0.47mfd, 50V
C210	22321028	Polypropylene, 470pF, 50V, K
C211	22448109	Electrolytic, 1mfd, 50V
C212	22448339	Electrolytic, 3.3mfd, 50V
C213	22321028	Polypropylene, 470pF, 50V, K
C214	22372473	Mylar, 0.047mfd, 50V, K
C215	22445221	Electrolytic, 220mfd, 16V
C216	22372682	Mylar, 0.0068mfd, 50V, K
C217	22372682	Mylar, 0.0068mfd, 50V, K
C218	22321049	Polypropylene, 330pF, 50V, J
C219	22321049	Polypropylene, 330pF, 50V, J
C301, 302	22466479	Electrolytic, 4.7mfd, 25V
C303, 304	22447470	Electrolytic, 47mfd, 35V
C307, 308	22371222	Mylar, 2200pF, 50V, J
C309, 310	22371822	Mylar, 8200pF, 50V, J
C311, 312	22466479	Electrolytic, 4.7mfd, 25V
C313, 314	22372102	Mylar, 0.001mfd, 50V, K
C315, 316	22446101	Electrolytic, 100mfd, 25V
C317	22342223	Ceramic, 0.022mfd, 50V, Z
C401, 402	22362101	Ceramic, 100pF, 50V, K
C403, 404	22372103	Mylar, 0.01mfd, 50V, K
C405, 406	22372103	Mylar, 0.01mfd, 50V, K
C409, 410	22467479	Electrolytic, 4.7mfd, 35V
C411, 412	22372683	Mylar, 0.068mfd, 50V, K
C413, 414	22372153	Mylar, 0.015mfd, 50V, K
C415, 416	22447479	Electrolytic, 4.7mfd, 35V
C417, 418	22372223	Mylar, 0.022mfd, 50V, K
C419, 420	22372272	Mylar, 0.0027mfd, 50V, K
C421, 422	22362271	Ceramic, 270pF, 50V, K
C423, 424	22467479	Electrolytic, 4.7mfd, 35V
C503, 504	22372102	Mylar, 0.001mfd, 50V, K
C505, 506	22362101	Ceramic, 100pF, 50V, K
C507, 508	22361209	Ceramic, 2pF, 50V, J
C509, 510	22443331	Electrolytic, 330mfd, 10V
C511, 512	22361120	Ceramic, 12pF, 50V, J
C513, 514	22361220	Ceramic, 22pF, 50V, J
C515, 516	22447470	Electrolytic, 47mfd, 35V
C517, 518	22372104	Mylar, 0.1mfd, 50V, K
C519, 520	22372104	Mylar, 0.1mfd, 50V, K
C901, 902	22340032	Ceramic, 0.022mfd, 500V, Z
C903, 904	22430075	Electrolytic, 6800mfd, 50V
C905, 906	22446221	Electrolytic, 220mfd, 25V
C907, 908	22448100	Electrolytic, 10mfd, 50V
C909	22448470	Electrolytic, 47mfd, 50V
C910	22447479	Electrolytic, 4.7mfd, 35V
C911	22340032	Ceramic, 0.022mfd, 500V, Z
C912	22446102	Electrolytic, 1000mfd, 25V
C914	22445471	Electrolytic, 470mfd, 16V
C915, 916	22340090	Ceramic, 0.0047mfd, 250V, Z
VC01	22307353	Variable Capacitor
RESISTORS		
All resistors are ¼W, 5%, carbon film unless otherwise noted. K = ±10%		

Symbol No.	Part No.	Description
R001	22555104	100K ohm
R002	22555470	47 ohm
R003	22500122	Fusible, 100 ohm, ¼W, J
R004	22555223	22K ohm
R005	22555104	100K ohm
R006	22555102	1K ohm
R007	22555393	39K ohm
R008	22555103	10K ohm
R009	22555152	1.5K ohm
R010	22500122	Fusible, 100 ohm, ¼W, J
R011	22555221	220 ohm
R012	22555331	330 ohm
R013	22500122	Fusible, 100 ohm, ¼W, J
R015	22555331	330 ohm
R016	22555183	18K ohm
R101	22555472	4.7K ohm
R102	22545331	330 ohm
R103	22545223	22K ohm
R104	22545331	330 ohm
R105	22545153	15K ohm
R106	22545104	100K ohm
R107	22545821	820 ohm
R108	22545392	3.9K ohm
R109	22545272	2.7K ohm
R110	22545682	6.8K ohm
R111	22545123	12K ohm
R112	22545222	2.2K ohm
R114	22545274	270K ohm
R116	22500122	Fusible, 100 ohm, ¼W, J
R117	22545151	150 ohm
R118	22545392	3.9K ohm
R119	22545182	1.8K ohm
R120	22545562	5.6K ohm
R121	22555103	10K ohm
R122	22555103	10K ohm
R123	22545272	2.7K ohm
R124	22545473	47K ohm
R125	22545101	100 ohm
R126	22545102	1K ohm
R131	22555104	100K ohm
R201	22545473	47K ohm
R202	22545223	22K ohm
R203	22545223	22K ohm
R204	22545473	47K ohm
R205	22545473	47K ohm
R206	22545103	10K ohm
R207	22545103	10K ohm
R208	22545332	3.3K ohm
R209	22545332	3.3K ohm
R210	22545332	3.3K ohm
R211	22545332	3.3K ohm
R212	22545102	1K ohm
R213	22545153	15K ohm

Symbol No.	Part No.	Description
R214	22500122	Fusible, 100 ohm, ¼W, J
R215	22570264	Metal Oxide Film, 150 ohm, 1W
R216	22545332	3.3K ohm
R217	22545332	3.3K ohm
R218	22555104	100K ohm
R301, 302	22545473	47K ohm
R303, 304	22545222	2.2K ohm
R305, 306	22545681	680 ohm
R307, 308	22545333	33K ohm
R309, 310	22545394	390K ohm
R311, 312	22545473	47K ohm
R313, 314	22545221	220 ohm
R401, 402	22545223	22K ohm
R403, 404	22545104	100K ohm
R405, 406	22545394	390K ohm
R407, 408	22545332	3.3K ohm
R409, 410	22545332	3.3K ohm
R411, 412	22545273	27K ohm
R413, 414	22545102	1K ohm
R415, 416	22555222	2.2K ohm
R419, 420	22555104	100K ohm
R421, 422	22545472	4.7K ohm
R423, 424	22545223	22K ohm
R425, 426	22555474	470K ohm
R427, 428	22545102	1K ohm
R429, 430	22545561	560 ohm
R431	22545105	1M ohm
R432	22555105	1M ohm
R433, 434	22555222	2.2K ohm
R435, 436	22555471	470 ohm
R503, 504	22545563	56K ohm
R505, 506	22545183	18K ohm
R507, 508	22545272	2.7K ohm
R509, 510	22570270	Metal Oxide Film, 470 ohm, 1W
R511, 512	22545472	4.7K ohm
R513, 514	22545332	3.3K ohm
R515, 516	22545563	56K ohm
R517, 518	22570278	Metal Oxide Film, 2.2K ohm, 1W
R519, 520	22545332	3.3K ohm
R521, 522	22570266	Metal Oxide Film, 220 ohm, 1W
R523, 524	22570250	Metal Oxide Film, 10 ohm, 1W
R525, 526	22570250	Metal Oxide Film, 10 ohm, 1W
R527, 528	22500187	Wire Wound, 0.47 ohm, 5W, K
R529, 530	22500187	Wire Wound, 0.47 ohm, 5W, K
R531, 532	22570295	Metal Oxide Film, 10 ohm, 2W
R601, 602	22570268	Metal Oxide Film, 330 ohm, 1W
R903	22570319	Metal Oxide Film, 1K ohm, 2W
R904	22570319	Metal Oxide Film, 1K ohm, 2W
R905	22545104	100K ohm
R906	22545683	68K ohm
R907	22545101	100 ohm
R908	22545224	220K ohm
R909	22545683	68K ohm