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SECTION 7

TROUBLESHOOTING CHART

| TRANSMITTER DIFFICULTIES | POSSIBLE CAUSE |
|---|--|
| A. No RF Output - Any Mode | <ol style="list-style-type: none"> 1. Check Readout Window, if dark check Synthesizer circuit. 2. Check that K-601 operates. 3. Check all power supply voltages. |
| B. No RF Output - AM Mode SSB Okay | <ol style="list-style-type: none"> 1. Check wiring and switches SW603J, 603I, 603H and 603F. |
| C. No RF Output - SSB Modes AM Okay | <ol style="list-style-type: none"> 1. Check wiring and switches as in B above, 2. Check Balanced Modulator and audio stages. (T201 and V203). |
| D. Low RF Power - AM Mode SSB Okay | <ol style="list-style-type: none"> 1. Check L303. 2. Check V205 for gassy condition. |
| E. Low RF Power - SSB Modes AM Okay | <ol style="list-style-type: none"> 1. Check drive levels of V201, 202, V301, 302 and 303. 2. Check bias adjustment. 3. Check tuning. 4. Check ALC circuit. |
| F. No or Low Modulation | <ol style="list-style-type: none"> 1. Check gain adjustments R-219 and R603. 2. Check V203, 204 and 205. 3. Check microphone. |
| G. Readout will not scan up or down. | <ol style="list-style-type: none"> 1. Check SW605 and wiring. 2. Check IC406, 407 and 408. |
| H. Readout indicates proper Channel but unit is not on correct frequency. | <ol style="list-style-type: none"> 1. Check wiring of all A thru G code lines from Readout P.C. Board to Synthesizer P.C. Board. 2. Check coding out of and into IC410. 3. Check IC105, 106, 107 and 108. |

SECTION 7

TROUBLESHOOTING CHART

RECEIVER DIFFICULTIES

POSSIBLE CAUSE

- | | |
|---------------------|---|
| A. LOW GAIN | <ol style="list-style-type: none">1. Check V101, 102, V201, 202 and 203 For shorts or gassy condition.2. Check power supply voltages at J2.3. Check for proper setting of RF gain control.4. Recheck tuning.5. Check for proper output levels from oscillators.6. Do stage gain checks. |
| B. DRIFTING | <ol style="list-style-type: none">1. It is normal to have drift for the first 1/2 - 1 hr. after turning on a cold set.2. Change C127 and 128. <u>These are temp. compensated so use exact type.</u>3. Check for proper regulation of 100V supply.4. Change other caps and chokes in the V104A circuit, one may be temperature sensitive. |
| C. WEAK OR NO AUDIO | <ol style="list-style-type: none">1. Check C237 and C239.2. Check V205 and V206.3. Check C235 and C238. |
| D. HUM ON AUDIO | <ol style="list-style-type: none">1. Check C3A and C3B2. Check V205 and V206 |
| E. NO SSB - AM OKAY | <ol style="list-style-type: none">1. Check V2042. Check adjustment of C223 and C224. |
| F. OVERLOADING | <ol style="list-style-type: none">1. Check that AGC Buss is not shorted to ground.2. Check D202 and D203.3. Check V201, 202 and 203 for shorts or gassy condition. |

SYNTHESIZER P.C. BOARD (TX)

| Schematic Symbol No. | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|----------------------|------------------------------|----------|----------------------|----------------------------|----------|
| | RESISTORS | | | CAPACITORS (continued) | |
| R101 | 330 ohm 1/4W 5% Carbon Film | 1-0664 | C103 | .01 +80-20% a5U 500V | 2-0049 |
| R102 | 330 ohm 1/4W 5% Carbon Film | 1-0664 | C104 | 100 MFD 16V Electrolytic | 2-0389 |
| R103 | 4.75K ohm 1/8W 1% Metal Film | 1-0980 | C105 | 1MFD 50V Electrolytic | 2-0371 |
| R104 | 4.75K ohm 1/8W 1% Metal Film | 1-0980 | C106 | 25 MFD 25V Electrolytic | 2-0370 |
| R105 | 2.2K ohm 1/4W 5% Carbon Film | 1-0674 | C107 | .01 +80-20% 85U 500V | 2-0049 |
| R106 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C108 | 27 PF 5% NPO Disc. 500V | 2-0255 |
| R107 | 47K ohm 1/4W 5% Carbon Film | 1-0690 | C109 | Not Used | |
| R108 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C110 | Not Used | |
| R109 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C111 | 100 MFD 16V Electrolytic | 2-0389 |
| R110 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C112 | 100 MFD " " | 2-0389 |
| R111 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C113 | .001 Z5U +80-20% Disc 500V | 2-0036 |
| R112 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C114 | Not Used | |
| R113 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C115 | 68 PF Dipped Mica | 2-0296 |
| R114 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C116 | 68 PF " " | 2-0296 |
| R115 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C117 | 100 MFD 16V Electrolytic | 2-0389 |
| R116 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C118 | 15 PF 5% NPO Disc 500V | 2-0254 |
| R117 | 1K ohm 1/4W 5% Carbon Film | 1-0670 | C119 | 10 PF 10% " " " | 2-0259 |
| R118 | 3300 1/4W 5% Carbon Film | 1-0676 | C120 | 68 PF Dipped Mica | 2-0296 |
| R119 | 100K 1/4W 5% Carbon Film | 1-0694 | C121 | 10 PF N750 | 2-0248 |
| R120 | 6800 1/4W 5% Carbon Film | 1-0680 | C122 | 3-10 PF Variable | 2-0428 |
| R121 | 1K 1/4W 5% Carbon Film | 1-0670 | C123 | 39 PF N750 | 2-0251 |
| R122 | 10K 1/4W 5% Carbon Film | 1-0682 | | INDUCTORS | |
| R123 | 3900 1/4W 5% Carbon Film | 1-0677 | L101 | 2.2 MHy Choke | 3-0013 |
| R124 | 150 1/4W 5% Carbon Film | 1-0660 | L102 | 2.2 MHy | 3-0013 |
| R125 | 150 1/4W 5% Carbon Film | 1-0660 | L103 | 2.2 MHy " | 3-0013 |
| R126 | Not Used | | L104 | 2.2 MHy " | 3-0013 |
| R127 | 1000 1/4W 5% Carbon | 1-0670 | L105 | T-37-6 Toroid | 3-0023 |
| R128 | 270 1/4W 5% Carbon | 1-0663 | L106 | 5.6 UHy Choke | 3-0003 |
| R129 | 2.2K 1/4W 5% Carbon | 1-0674 | L107 | 10 UHy | 3-0021 |
| R130 | 1K ohm 1/4W 5% Carbon | 1-0670 | L108 | 10 UHy " | 3-0021 |
| R131 | 47 ohm 1/4W 5% Carbon | 1-0031 | | DIODES | |
| R132 | 100K 1/4W 5% Carbon | 1-0694 | D101 | 1N914 or 1N4148 | 7-0013 |
| R133 | 1 MEG ohm .5W Carbon Film | 1-0790 | D102 | 1N914 or 1N4148 | 7-0013 |
| R134 | 220 ohm 1/4W 5% | 1-0047 | D103 | 1N914 or 1N4148 | 7-0013 |
| | CAPACITORS | | D104 | 1N914 or 1N4148 | 7-0013 |
| C101 | 3-10 PF Variable | 2-0428 | D105 | 1N914 or 1N4148 | 7-0013 |
| C102 | 15 PF N750 500v | 2-0254 | D106 | 1N914 or 1N4148 | 7-0013 |

SYNTHESIZER P.C. BOARD (continued) (TX)

| Schematic Symbol No. | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|----------------------|--------------------------|----------|----------------------|-------------|----------|
| | DIODES (continued) | | | | |
| D107 | 1N914 or 1N4148 | 7-0013 | | | |
| D108 | 1N914 or 1N4148 | 7-0013 | | | |
| D109 | 1N914 or 1N4148 | 7-0013 | | | |
| DUO | 1N914 or 1N4148 | 7-0013 | | | |
| D111 | MV2111 Varactor | 7-0034 | | | |
| D112 | 1N914 or 1N4148 | 7-0013 | | | |
| D113 | 1N914 or 1N4148 | 7-0013 | | | |
| D114 | 1N914 or 1N4148 | 7-0013 | | | |
| D115 | 1N914 or 1N4148 | 7-0013 | | | |
| | INTEGRATED CIRCUITS | | | | |
| IC101 | SN7404N | 7-0021 | | | |
| IC102 | SN7492N | 7-0026 | | | |
| IC103 | SN7490N | 7-0025 | | | |
| IC104 | SN7490N | 7-0025 | | | |
| IC105 | SN74163N | 7-0028 | | | |
| IC106 | SN74163N | 7-0028 | | | |
| IC107 | SN74163N | 7-0028 | | | |
| IC108 | SN74163N | 7-0028 | | | |
| IC109 | MC4044P | 7-0018 | | | |
| | TRANSISTORS | | | | |
| Q101 | MPS-A12 | 7-0031 | | | |
| Q102 | MPS6514 | 7-0032 | | | |
| Q103 | MPS6514 | 7-0032 | | | |
| Q104 | MPS6514 | 7-0032 | | | |
| Q105 | MPF112 | 7-0035 | | | |
| Q106 | MPS6514 | 7-0032 | | | |
| Q107 | MPS6514 | 7-0032 | | | |
| | SOCKETS | | | | |
| | 14 Pin 1C Socket | 9-0026 | | | |
| | 16 Pin 1C Socket | 9-0027 | | | |
| | P.C. BOARD | | | | |
| | B-10004 P.C. Bd. | 14-0014 | | | |
| | CRYSTAL | | | | |
| CR101 | 6 MHz Crystal | 16-0017 | | | |
| | Ambroid Cement for Torid | 26-0013 | | | |
| | Coil | | | | |

FILTER P.C. BOARD (TX)

| Schematic Symbol | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|------------------|------------------------|----------|----------------------|------------------------|----------|
| | RESISTORS | | | CAPACITORS (continued) | |
| R201 | 220K 1/2W 5% Carbon | 1-0782 | C208 | 27PF NPO 5% 500V | 2-0255 |
| R202 | 3300 1/2W 5% Carbon | 1-0760 | C209 | .04 +80-20% Z5U 50V | 2-0051 |
| R203 | 150 ohm 1/2W 5% Carbon | 1-0744 | C210 | .01 +80-20% Z5U 500V | 2-0049 |
| R204 | 250 ohm P.C. Pot | 11-0091 | C211 | .01 " " " " | 2-0049 |
| R205 | 470 ohm 1/2W 5% Carbon | 1-0750 | C212 | 68PF 10% Z5U 500V | 2-0117 |
| R206 | 470 ohm 1/2W 5% Carbon | 1-0750 | C213 | .001 +80-20% 500V | 2-0036 |
| R207 | 22K 1/2W 5% Carbon | 1-0770 | C214 | .001 " " " " | 2-0036 |
| R208 | 68 ohm 1/2W 5% Carbon | 1-0740 | C215 | .001 " " " " | 2-0036 |
| R209 | 47K 2W 10% Carbon | 1-0928 | C216 | .47 250V Mylar | 2-0466 |
| R210 | 1500 1/2W 5% Carbon | 1-0756 | C217 | .005 +80-20% 500V | 2-0048 |
| R211 | 47K 1/2W 5% Carbon | 1-0774 | C218 | 100PF 10% Z5U 500V | 2-0120 |
| R212 | 2.2Meg 1/2W 5% Carbon | 1-0794 | C219 | 120PF " " " | 2-0121 |
| R213 | 470K 1/2W 5% Carbon | 1-0786 | C220 | .22 250V Mylar | 2-0457 |
| R214 | 470K 1/2W 5% Carbon | 1-0786 | C221 | 25MFD 25V Electro. | 2-0370 |
| R215 | 3300 1/2W 5% Carbon | 1-0760 | C222 | .01 +80-20% 500V | 2-0049 |
| R216 | 680 ohm 1/2W 5% Carbon | 1-0752 | C223 | .001 " " " " | 2-0036 |
| R217 | 100K 1/2W 5% Carbon | 1-0778 | | DIODES | |
| R218 | 1000 1/2W 5% Carbon | 1-0754 | D201 | IN4005 | 7-0004 |
| R219 | 500K P.C. Pot | 11-0027 | | TUBES | |
| R220 | 1500 1/2W 5% Carbon | 1-0756 | V201 | 12AX7 | 8-0011 |
| R221 | 4700 1/2W 5% Carbon | 1-0762 | V202 | 6BA6 | 8-0004 |
| R222 | 33K 1W 10% Carbon | 1-0849 | V203 | 12AX7 | 8-0011 |
| R223 | 470K 1/2W 5% Carbon | 1-0786 | V204 | 12AU7 | 8-0010 |
| R224 | 150 ohm 1W 10% Carbon | 1-0821 | V205 | 6BQ5 | 8-0008 |
| R225 | 22 ohm 1/2W 5% Carbon | 1-0734 | | SOCKETS | |
| R226 | 1500 1/2W 5% Carbon | 1-0756 | | 7 Pin P.C. Tube Socket | 9-0023 |
| R227 | 15K 2W 10% Carbon | 1-0922 | | 9 Pin " " " | 9-0024 |
| R228 | 15K 1/2W 5% Carbon | 1-0768 | | P.C. BOARD | |
| R229 | 3300 1/2W 5% Carbon | 1-0760 | | B-10005 P.C. Bd. | 14-0015 |
| | CAPACITORS | | | CRYSTALS-FILTERS | |
| C201 | 8-50PF Variable | 2-0430 | CR201 | 5.645 MHz Crystal | 16-0002 |
| C202 | 150PF 10% Z5U 500V | 2-0122 | FL201 | 5.6465 USB Filter | 16-0001 |
| C203 | .005 +80-20% Z5U 500V | 2-0048 | FL202 | 5.6435 LSB Filter | 16-0018 |
| C204 | 270PF 20% Disc 500V | 2-0025 | | TRANSFORMERS | |
| C205 | 5-25PF Variable | 2-0429 | T201 | 38542 Bal. Modulator | 4-0018 |
| C206 | .005 +80-20% Z5U 500V | 2-0048 | T202 | 38529 5 MHB XMFR | 4-0017 |
| C207 | 1.1PF Tubular | 2-0460 | | | |

DRIVER-FINAL P.C. BOARD (TX)

| Schematic Symbol | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|------------------|--------------------------|----------|----------------------|---------------------------|----------|
| | RESISTORS | | | CAPACITORS (continued) | |
| R301 | 1000 1/2W 5% Carbon | 1-0754 | C308 | 3.3 PF Tubular | 2-0463 |
| R302 | 1000 1/2W 5% Carbon | 1-0754 | C309 | 220 PF 20% Z5U 500V | 2-0023 |
| R303 | 470 1/2W 5% Carbon | 1-0750 | C310 | 2.2 PF NPO +/- .25 PF 1KV | 2-0268 |
| R304 | 68K 1/2W 5% Carbon | 1-0776 | C311 | .01 +80-20% Z5U 500V | 2-0049 |
| R305 | 4700 1/2W 5% Carbon | 1-0762 | C312 | 270PF 20% Z5U 500V | 2-0025 |
| R306 | 10K 1/2W 5% Carbon | 1-0766 | C313 | 5.0 PF NPO | 2-0258 |
| R307 | 22 ohm 1/2W 5% Carbon | 1-0734 | C314 | .001 +80-20% Z5U 500V | 2-0036 |
| R308 | 150 1/2W 5% Carbon | 1-0744 | C315 | .04 +80-20% Z5U 50V | 2-0051 |
| R309 | 150K 1/2W 5% Carbon | 1-0780 | C316 | .001 +80-20% Z5U 500V | 2-0036 |
| R310 | 22K 1/2W 5% Carbon | 1-0770 | C317 | .01 +80-20% Z5U 500V | 2-0049 |
| R311 | 100 1/2W 5% Carbon | 1-0742 | C318 | 25 MFD 50V Electro. | 2-0373 |
| R312 | 680 1/2W 5% Carbon | 1-0752 | C319 | .001 +80-20% B5U 500V | 2-0036 |
| R313 | 10K 1/2W 5% Carbon | 1-0766 | C320 | 1000 MFD 16V Electro. | 2-0390 |
| R314 | 10 ohm 1/2W 5% Carbon | 1-0180 | C321 | .04 +80-20% Z5U 50V | 2-0051 |
| R315 | 820 ohm 1/2W 5% Carbon | 1-0226 | C322 | .04 +80-20% Z5U 50V | 2-0051 |
| R316 | 1500 5W 10% WW | 1-0964 | C323 | .04 +80-20% Z5U 50V | 2-0051 |
| R317 | 680K 1/2W 5% Carbon | 1-0788 | C324 | 2 MFD 150V Electro. | 2-0374 |
| R318 | 25K P.C. Pot. | 11-0026 | C325 | 1 MFD 50V Electro. | 2-0371 |
| R319 | 150K 1/2W 5% Carbon | 1-0780 | C326 | .001 +80-20% Z5U 500V | 2-0036 |
| R320 | 470K 1/2W 5% Carbon | 1-0786 | | INDUCTORS - TRANSFORMERS | |
| R321 | 22K 1/2W 5% Carbon | 1-0770 | L301 | 5.6 UHy Choke | 3-0003 |
| R322 | 100 1/2W 5% Carbon | 1-0754 | L302 | 18 UHy " | 3-0005 |
| R323 | 10K 1/2W 5% Carbon | 1-0766 | L303 | 18 UHy " | 3-0022 |
| R324 | 3300 1/2W 5% Carbon | 1-0760 | T301 | B8546 27 MHz Transformer | 4-0019 |
| R325 | 47K 1/2W 5% Carbon | 1-0774 | T302 | B8546 " | 4-0019 |
| R326 | 100 1/2W 5% Carbon | 1-0742 | T303 | B8546 " " " | 4-0019 |
| R327 | 1 Meg.ohm 1/2W 5% Carbon | 1-0790 | | DIODES | |
| R328 | 100 1/2W 5% Carbon | 1-0742 | D301 | 1N4005 | 7-0004 |
| R329 | 150 1/2W 5% Carbon | 1-0744 | D302 | Not Used | |
| | CAPACITORS | | D303 | 1N914 or 1N4148 | 7-0013 |
| C301 | .001 +80-20% Z5U 500V | 2-0036 | D304 | 1N914 or 1N4148 | 7-0013 |
| C302 | .001 +80-20% Z5U 500V | 2-0036 | | TRANSISTORS | |
| C303 | .001 +80-20% Z5U 500V | 2-0036 | 0301 | 2N5086 | 7-0014 |
| C304 | .01 +80-20% Z5U 500V | 2-0049 | 0302 | 2N5086 | 7-0014 |
| C305 | .001 +80-20% Z5U 500V | 2-0036 | 0303 | 2N5209 | 7-0015 |
| C306 | .001 +80-20% Z5U 500V | 2-0036 | 0304 | 40327 | 7-0030 |
| C307 | 30 PF NPO 10% 500V | 2-0265 | Q305 | MPS6514 | 7-0032 |

READOUT P.C. BOARD (TX)

| Schematic Symbol | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|------------------|------------------------|----------|----------------------|------------------------|----------|
| | RESISTORS | | | CAPACITORS (continued) | |
| R401 | 150 ohm 1/4W 5% Carbon | 1-0660 | C408 | 220 MFD 25V Electro. | 2-0391 |
| R402 | 150 ohm " " " | 1-0660 | | DIODES | |
| R403 | 150 ohm " " " | 1-0660 | D401 | IN914 or IN4148 | 7-0013 |
| R404 | 150 ohm " " " | 1-0660 | D402 | IN914 or IN4148 | 7-0013 |
| R405 | 150 ohm " " " | 1-0660 | D403 | IN914 or IN4148 | 7-0013 |
| R406 | 150 ohm " " " | 1-0660 | D404 | IN914 or IN4148 | 7-0013 |
| R407 | 150 ohm " " " | 1-0660 | D405 | IN914 or IN4148 | 7-0013 |
| R408 | 150 ohm " " " | 1-0660 | D406 | IN914 or IN4148 | 7-0013 |
| R409 | 150 ohm " " " | 1-0660 | D407 | IN914 or IN4148 | 7-0013 |
| R410 | 150 ohm " " " | 1-0660 | D408 | IN541 | 7-0005 |
| R411 | 150 ohm " " " | 1-0660 | D409 | IN914 or IN4148 | 7-0013 |
| R412 | 150 ohm " " " | 1-0660 | | INTEGRATED CIRCUITS | |
| R413 | 150 ohm " " " | 1-0660 | IC401 | SN7447N | 7-0023 |
| R414 | 150 ohm " " " | 1-0660 | IC402 | SN7447N | 7-0023 |
| R415 | 1000 " " " | 1-0670 | IC403 | SN74190N | 7-0029 |
| R416 | 15K " " " | 1-0684 | IC404 | SN74190N | 7-0029 |
| R417 | 2200 " " " | 1-0674 | IC405 | SN7400N | 7-0019 |
| R418 | 2200 " " " | 1-0674 | IC406 | NE555V | 7-0016 |
| R419 | Not Used | | IC407 | SN7402N | 7-0020 |
| R420 | 68K 1/4W 5% Carbon | 1-0692 | IC408 | SN7474N | 7-0024 |
| R421 | 47K " " " | 1-0690 | IC409 | SN7474N | 7-0024 |
| R422 | 47K " " " | 1-0690 | IC410 | INTEL 1302A / MM1702AQ | 7-0108 |
| R423 | 150 ohm " " " | 1-0660 | | LED'S | |
| R424 | 68K " " " | 1-0692 | 1401 | MAN 4710 | 8-0028 |
| R425 | 47K " " " | 1-0690 | 1402 | MAN 4710 | 8-0028 |
| R426 | 150 ohm " " " | 1-0660 | 1403 | MV 5054-1 | 8-0027 |
| R427 | 33K " " " | 1-0688 | 1404 | MV 5054-1 | 8-0027 |
| R428 | 2200 " " " | 1-0674 | | SOCKETS | |
| R429 | 2200 " " " | 1-0674 | | 8 Pin 1C Socket | 9-0025 |
| | CAPACITORS | | | 14 Pin " | 9-0026 |
| C401 | 5 MFD 50V Electro. | 2-0372 | | 16 Pin " | 9-0027 |
| C402 | .01 MFD +80-20% Disc | 2-0049 | | 24 Pin " | 9-0028 |
| C403 | .02 +80-20% Z5U 500V | 2-0050 | | P.C. BOARD | |
| C404 | .01 +80-20% Z5U 500V | 2-0049 | | B-10003 P.C. Bd. | 14-0011 |
| C405 | .001 +80-20% Z5U 500V | 2-0036 | | | |
| C406 | 25 MFD 25V Electro. | 2-0370 | | | |
| C407 | .22 @ 250V Mylar | 2-0457 | | | |

CHASSIS COMPONENTS (TX)

| Schematic Symbol | DESCRIPTION | PART NO. | Schematic Symbol No. | DESCRIPTION | PART NO. |
|------------------|-----------------------|----------|----------------------|------------------------|----------|
| | RESISTORS | | | CAPACITORS (continued) | |
| R701 | 47 1/2W 5% Carbon | 1-0738 | C621 | 2300 pF Feed-Through | 2-0592 |
| R702 | 47 1/2W 5% Carbon | 1-0738 | C622 | 2300 pF " | 2-0592 |
| R601 | A8002 100K Pot. | 11-0028 | C623 | 2300 pF " | 2-0592 |
| R602 | E595 5K Pot. | 11-0010 | C624 | Not Used | |
| R603 | A657 25K Pot. | 11-0008 | C625 | 220 MFD 25V | 2-0391 |
| R604 | A657 25K Pot. | 11-0008 | C626 | .1 MFD 250V | 2-0454 |
| R605 | 15K 1/2W 5% Carbon | 1-0768 | C627 | .01 +80-20% Z5U 1KV | 2-0100 |
| R606 | 10K 10W 10% WW | 1-0978 | | INDUCTORS | |
| R607 | 3600 10W 10% WW | 1-1004 | L601 | 20 Hy Choke C1515 | 3-0007 |
| R608 | 8500 10W 10% WW | 1-0984 | L602 | AIR-DUC 9 Turns | 3-0017 |
| R609 | 220 1/2W 5% Carbon | 1-0746 | L603 | .33 UHy Choke | 3-0006 |
| R610 | 470 1/2W 5% Carbon | 1-0750 | L604 | 2.2 mHy Choke | 3-0013 |
| R611 | 470 1/2W 5% Carbon | 1-0750 | | TRANSFORMER | |
| R612 | 10 1/2W 5% Carbon | 1-0180 | T601 | Modulation Transformer | 4-0020 |
| | CAPACITORS | | | SHEET METAL | |
| C701 | .01 +80-20% Z5U 500V | 2-0049 | | C-9015 Bottom Plate | 5-0009 |
| C702 | | 2-0049 | | D-9006 Dust Cover | 5-0043 |
| C601 | 10-10 450V Electro. | 2-0384 | | A-9002 Meter Tab | 5-0011 |
| C602 | 2.7-26 pF Variable | 2-0423 | | C-9001 Front Panel | 5-0038 |
| C603 | 250 PF 5% Dipped Mica | 2-0297 | | D-9000 Chassis | 5-0039 |
| C604 | .001 +80-20% Z5U 500V | 2-0036 | | C-9012 Synthesizer Top | 5-0079 |
| C605 | 68PF 5% Dipped Mica | 2-0296 | | C-9013 Synth. Bottom | 5-0080 |
| C606 | .01 +80-20% Z5U 1KV | 2-0100 | | A-9008 Tuning Controls | 5-0045 |
| C607 | .01 +80-20% Z5U 1KV | 2-0100 | | KNOBS | |
| C608 | Not Used | | | Large K1251G Knob | 6-0001 |
| C609 | Not Used | | | Small K900G Knob | 6-0002 |
| C610 | Not Used | | | DIODES | |
| C611 | .01 +80-20% Z5U 1KV | 2-0100 | CR701 | 1N541 | 7-0005 |
| C612 | 25 MFD 25V Electro. | 2-0370 | CR702 | 1N541 | 7-0005 |
| C613 | 2300 pF Feed-Through | 2-0592 | D601 | 1N4005 | 7-0004 |
| C614 | 2300 pF " | 2-0592 | D602 | 1N4005 | 7-0004 |
| C615 | 2300 pF " | 2-0592 | VR601 | 1N3011B Zener | 7-0007 |
| C616 | 2300 pF " | 2-0592 | | INTEGRATED CIRCUITS | |
| C617 | 2300 pF " | 2-0592 | IC601 | MC7805 Reg. | 7-0033 |
| C618 | 2300 pF " | 2-0592 | IC602 | MC7805 " | 7-0033 |
| C619 | 2300 pF " | 2-0592 | | PILOT LAMPS | |
| C619 | 2300 pF " | 2-0592 | 1601 | 1847 Lamp | 8-0022 |
| C620 | 2300 pF " | 2-0592 | 1602 | CM-2181 Lamp | 8-0026 |