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**Uniden AX711 Service Manual**

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# **AX 711 Service Manual**

**uniden** **CORPORATION OF AMERICA**  
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AX 711SM © 1981

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### Specifications

#### Receiver:

|   |                        |
|---|------------------------|
| Sens. For $\frac{S+N}{N} = 10\text{dB}$ | .5uv                   |
| Sens. For 500mw                         | .3uv                   |
| Squelch Threshold                       | .5uv                   |
| Squelch Deep                            | 60-70dB                |
| S-9                                     | 50uv                   |
| Frequency Range                         | 26.965mhz to 27.450mhz |
| Type Of Emission                        | AM                     |
| AF Power At 10% Distortion              | 3 Watts                |
| IF Band Width                           | 6 khz                  |
| AF Output Impedance                     | 8 ohm                  |
| Adjacent Channel Rejection              | 55 db Or Better        |

#### Transmitter

|                          |                                   |
|--------------------------|-----------------------------------|
| Power Output             | 4 Watts                           |
| Spurious Suppression     | Better Than - 60dB                |
| Percentage Of Modulation | 85 - 100 %                        |
| Frequency Tolerance      | $\pm$ 1350hz                      |
| Frequency Range          | 26.965mhz To 27.405mhz            |
| Type Of Emission         | AM                                |
| Output Impedance         | 50 ohm                            |
| Frequency Method         | PLL                               |
| D.C. Power Required      | 13.8vdc @ .5 amps RX- 1.5 amps TX |

#### Note:

All Transmitter Adjustments Must Be Performed By A FCC 1st Or 2nd Class Radiotelephone License Holder.

## Alignment Of Receiver Portion

### 1. Equipment Required

- A. Signal Generator (27 MHz Band, 1000Hz, 30% AM Modulation & Output Impedance 50 ohm)
- B. Audio VTVM
- C. Oscilloscope
- D. Dummy Load (8 ohm, 5 watts, resistive)
- E. DC Power Supply (13.8 V, 2 Amp.)

### 2. Procedure

| Step | SG Connection<br>Frequency                                  | Preset To                                     | Audio<br>VTVM               | Adjustment          | Remarks  |
|------|---|---|-----------------------------|---------------------|--|
| 1.   | To Ant. Conn-<br>ector, J401. Ch.<br>19 Freq. 27.185<br>MHz | Vol. Max.<br>SQL. Min.<br>ANL. Off<br>NB. Off | To Ext.<br>Spk. Jack<br>403 | L1, 2,3,<br>4,5,6,7 | Adjust for a<br>max. Audio<br>Output   |
| 2.   | Same As Step 1  | Same As<br>Step 1                             | Same As<br>Step 1           | VR 2                | Adjust for 2 V<br>output with SG<br>output level of<br>0.4uV   |
| 3.   | Same As Step 1  | Vol. Max.<br>SQL. Max.<br>NB/ANL:<br>Off      | Same As<br>Step 1           | VR 4<br>(Squelch)   | Adjust for 2V<br>output with SG<br>output level of<br>1000uV   |
| 4.   | Same As Step 1  | Same As<br>Step 1                             | Same As<br>Step 1           | VR 1                | Adjust for a<br>reading of S-9<br>on the S-Meter<br>of the Trans-<br>ceiver with SG<br>output level of<br>100 uV |

## Alignment Of PLL Portion

### 1. Test Equipment Required

- A. Oscilloscope ( 0-50 mhz)
- B. DC Volt Meter (10 Volts maximum,100K ohm/Volt)

### 2. Alignment Procedure

---

| Step | Preset To                              | Connections                                      | Adjustments | Remarks   |
|------|--|--|-------------|---|
| 1    | TX Mode<br>No Modulation<br>Channel 40 | DC Volt Meter<br>to Pin No.7 of<br>I. C. 3 (TP2) | L 15        | Adjust L15 to obtain<br>approx. 3.0 V<br>reading            |
| 2    | TX Mode<br>No Modulation<br>Channel 1  | Oscilloscope to<br>secondary of L16<br>(TP3)     | L 16        | Adjust L16 for the<br>maximum indication<br>on oscilloscope |

---

Alignment Of Transmitter Portion  
(For Transmitter Section)

1. Equipment Required

- A. VTVM (Full Scall 1V DC With RF Probe)
- B. RF Output Power Meter
- C. Tunable Field Intensity Meter (Wave Meter)
- D. Frequency Counter (0 - 30 MHz)
- E. DC Power Supply (13.8V/2 Amp. )
- F. 50 ohm Load And Attenuator
- G. Oscilloscope ( 0 - 30 MHz )
- H. AF Oscillator

2. Procedure

| Step | Preset To   | Conditions  | Alignment  | Remarks  |
|------|---|---|------------|--|
| 1.   | TX Mode<br>No Modulation<br>Channel 19  | RF Output Power<br>Meter to Ant.<br>Jack , J401<br>VTVM to TP4  | L 17, 18   | Adjust for a maximum<br>indication on VTVM   |
| 2.   | Same As<br>Step 1   | RF Output Power<br>Meter to Ant.<br>Jack , J401   | L 10, L 14 | Adjust for a maximum<br>indication on RF Output<br>Meter   |
| 3.   | Same As<br>Step 1   | Same As Step 2  | L 10       | Adjust to obtain<br>nominal 3.8 W of RF<br>Output Power  |
| 4.   | Repeat the above adjustments, in order to confirm if the adjustments were made correctly. |   |            |  |
| 5.   | TX Mode<br>Ch. 19, 1<br>KHz ,100mV<br>Applied to mic<br>input for MOD                     | Audio Generator<br>to microphone Jack<br>J501 Oscilloscope to<br>Ant. Jack ,J401<br>through a suitable<br>load and attenuator | VR 5       | Adjust for 95%<br>Modulation   |
| 6.   | Same As<br>Step 1   | RF Output Power<br>Meter To Ant. Jack<br>J401   | VR 3       | Check that RF Output<br>Power Meter reads<br>3.8 then adjust VR 3<br>so that the meter<br>pointer of the trans-<br>ceiver just approaches<br>3 to 4 mark |

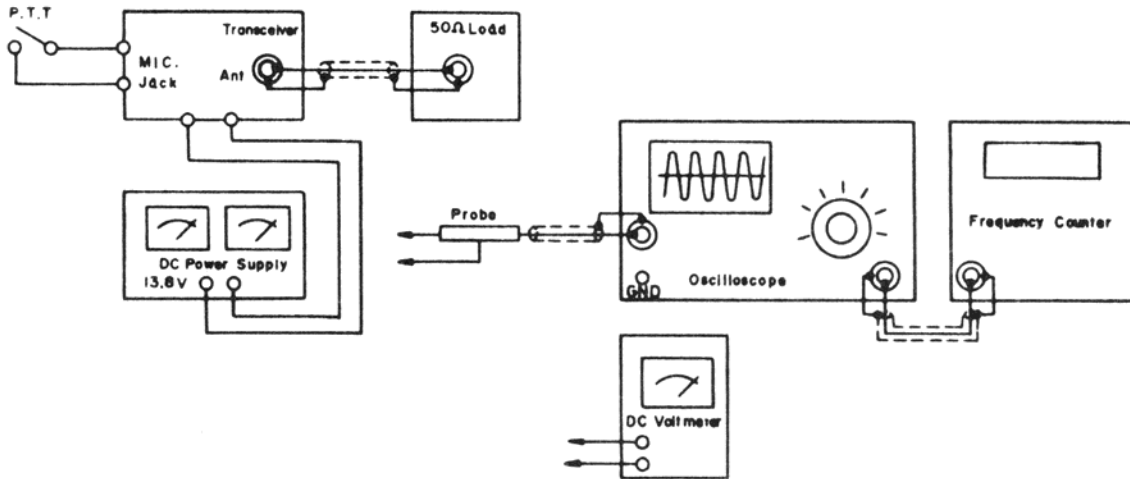
SOURCE: MOTOR VOLTAGE CHART, AX 711

ALL VOLTS EXCEPTED INTO TABLE WITH A 20% TO 30% GAIN

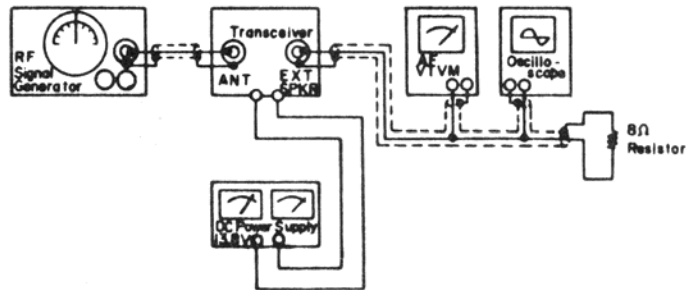
( ) Indicates Squelch Per Volt VTVM Or VOM CH 19 \* Indicates Bright

| TR | RX   |      |     | TX   |     |     | TR  | RX   |      |      | TX  |      |     | IR  | RX  |      |     | TX |    |    |
|----|------|------|-----|------|-----|-----|-----|------|------|------|-----|------|-----|-----|-----|------|-----|----|----|----|
|    | B    | C    | E   | B    | C   | E   |     | B    | C    | E    | B   | C    | E   |     | B   | C    | E   | B  | C  | E  |
| 1  | 1.9  | 9.3  | 1.2 |      |     |     | 15  | 5.2  | 6.8  | 5.0  |     |      |     | FET | G   | D    | S   |    |    |    |
| 2  | 1.2  | 8.7  | .6  |      |     |     | 16  | 9.2  | 0    | 8.6  | 7.8 | 8.5  | 8.6 | 1   | 0   | 9.4  | .6  |    |    |    |
| 3  | .6   | 1.7  | 0   |      |     |     | 17  | 9.2  | 12.8 | 8.6  | 9.2 | 12.0 | 8.6 | 2   | 0   | 12.8 | 1.6 |    |    |    |
| 4  | 1.7  | 13.0 | 1.1 |      |     |     | 18  | 3.3  | 12.6 | 2.8  |     |      |     |     |     |      |     |    |    |    |
| 5  | .6   | .1   | 0   |      |     |     | 18* | 7.2  | 9.7  | 6.6  |     |      |     |     |     |      |     |    |    |    |
| 6  | 0    | 1.2  | 0   |      |     |     | 19  | .7   | 0    | 0    | .2  | 1.8  | 0   |     |     |      |     |    |    |    |
| 6  | (.6) | (0)  | (0) |      |     |     | 20  | 3.4  | 13.0 | 2.6  |     |      |     |     |     |      |     |    |    |    |
| 7  |      |      |     |      |     |     | 21  | 3.4  | 7.0  | 0    |     |      |     |     |     |      |     |    |    |    |
| 8  |      |      |     |      |     |     | 22  | 13.5 | 0    | 13.5 |     |      |     |     |     |      |     |    |    |    |
| 9  |      |      |     |      |     |     | 23  | 0    | 0    | 0    |     |      |     |     |     |      |     |    |    |    |
| 10 | 1.2  | 5.5  | .6  |      |     |     |     |      |      |      |     |      |     |     |     |      |     |    |    |    |
| 11 | 3.2  | 5.8  | 2.7 | 3.2  | 5.8 | 2.7 |     |      |      |      |     |      |     |     |     |      |     |    |    |    |
| 12 | 2.0  | 2.8  | 1.4 | 2.0  | 2.8 | 1.4 |     |      |      |      |     |      |     |     |     |      |     |    |    |    |
| 13 |      |      |     | 1.3  | 2.3 | .8  |     |      |      |      |     |      |     |     |     |      |     |    |    |    |
| 14 |      |      |     | 0    | 0   | 0   |     |      |      |      |     |      |     |     |     |      |     |    |    |    |
| IC | Pin  | 2    | 3   | 4    | 5   | 6   | 7   | 8    | 9    | 10   | 11  | 12   | 13  | 14  | 15  | 16   | 17  | 18 | 19 | 20 |
| 1  | 13.5 | 6.3  | 0   | -1.1 | 1.0 | 1.0 | 0   | 0    | 6.8  | 12.8 |     |      |     |     |     |      |     |    |    |    |
| 2  | 2.6  | 2.2  | 1.4 | 2.4  | 0   | 8.7 | 1.8 | 4.6  | 8.4  |      |     |      |     |     |     |      |     |    |    |    |
| 3  | 7.1  | 2.8  | 0   | 6.8  | 3.2 | 3.2 | 1.7 | 0    | 2.9  | .6   | .6  | .6   | 7.0 | 7.0 | 7.0 | 7.0  | 7.0 | 0  | 0  | 0  |

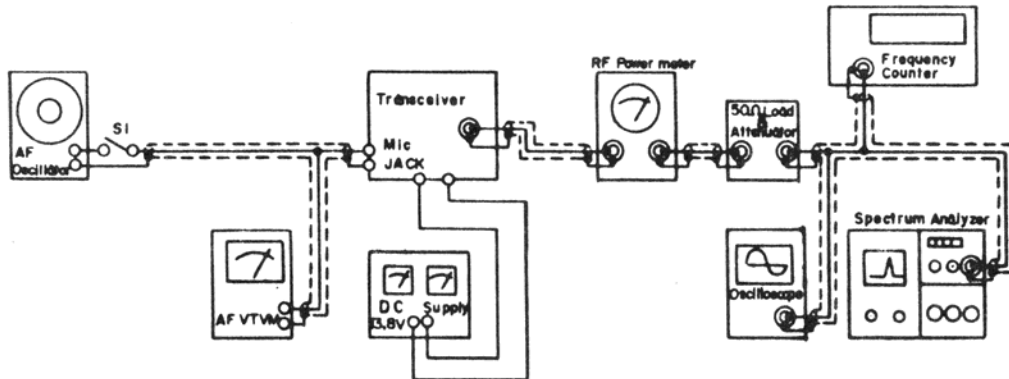
### PLL Test Setup



### Receiver Test Setup

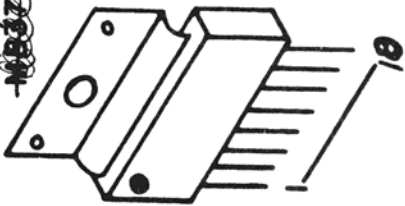


### Transmitter Test Setup

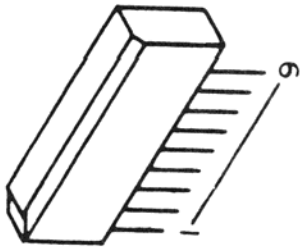




TA722R

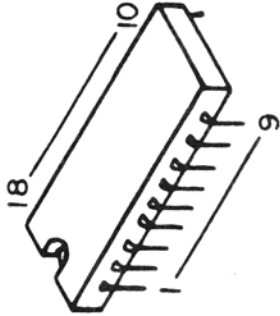


TA7310P



9106P

TC9109P



- 2SA733-P
- 2SC945A-Q
- 2SC1675-M
- 2SC2076-C



2SC1342-B



2SC2028-B/20



2SC2029-B/10



IN60-AM

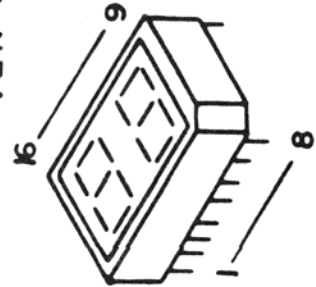


- IS2075-K
- IS2076
- SRIK-1
- IS34



- CZ-094
- WZ-071
- O5Z7.5-UNI
- IS2688-EA

TLR-321

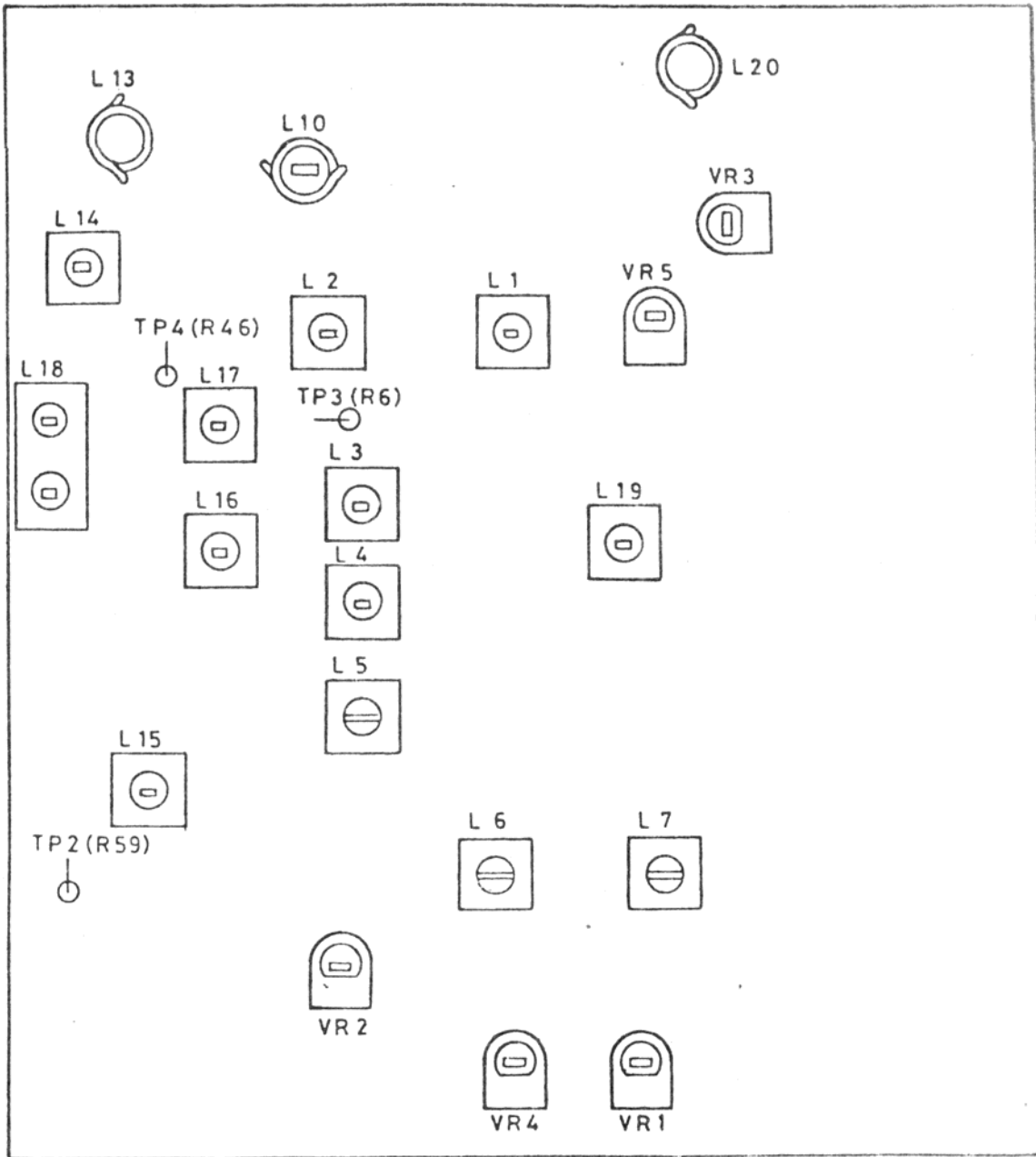


TLR-124

Channel No.

Program Input Data

|    | 1F | 1A | 1G | 1E | 1D | 2C | 2A | 2F |
|----|----|----|----|----|----|----|----|----|
| 1  | H  | H  | H  | H  | H  | H  | H  | H  |
| 2  | H  | L  | L  | L  | L  | H  | H  | H  |
| 3  | H  | L  | L  | H  | L  | H  | H  | H  |
| 4  | L  | H  | L  | H  | H  | H  | H  | H  |
| 5  | L  | L  | L  | H  | L  | H  | H  | H  |
| 6  | L  | H  | L  | L  | L  | H  | H  | H  |
| 7  | H  | L  | H  | H  | H  | H  | H  | H  |
| 8  | L  | L  | L  | L  | L  | H  | H  | H  |
| 9  | L  | L  | L  | H  | H  | H  | H  | H  |
| 10 | L  | L  | H  | L  | L  | L  | H  | H  |
| 11 | H  | H  | H  | H  | H  | L  | H  | H  |
| 12 | H  | L  | L  | L  | L  | L  | H  | H  |
| 13 | H  | L  | L  | H  | L  | L  | H  | H  |
| 14 | L  | H  | L  | H  | H  | L  | H  | H  |
| 15 | L  | L  | L  | H  | L  | L  | H  | H  |
| 16 | L  | H  | L  | L  | L  | L  | H  | H  |
| 17 | H  | L  | H  | H  | H  | L  | H  | H  |
| 18 | L  | L  | L  | L  | L  | L  | H  | H  |
| 19 | L  | L  | L  | H  | H  | L  | H  | H  |
| 20 | L  | L  | H  | L  | L  | H  | L  | H  |
| 21 | H  | H  | H  | H  | H  | H  | L  | H  |
| 22 | H  | L  | L  | L  | L  | H  | L  | H  |
| 23 | H  | L  | L  | H  | L  | H  | L  | H  |
| 24 | L  | H  | L  | H  | H  | H  | L  | H  |
| 25 | L  | L  | L  | H  | L  | H  | L  | H  |
| 26 | L  | H  | L  | L  | L  | H  | L  | H  |
| 27 | H  | L  | H  | H  | H  | H  | L  | H  |
| 28 | L  | L  | L  | L  | L  | H  | L  | H  |
| 29 | L  | L  | L  | H  | H  | H  | L  | H  |
| 30 | L  | L  | H  | L  | L  | L  | L  | H  |
| 31 | H  | H  | H  | H  | H  | L  | L  | H  |
| 32 | H  | L  | L  | L  | L  | L  | L  | H  |
| 33 | H  | L  | L  | H  | L  | L  | L  | H  |
| 34 | L  | H  | L  | H  | H  | L  | L  | H  |
| 35 | L  | L  | L  | H  | L  | L  | L  | H  |
| 36 | L  | H  | L  | L  | L  | L  | L  | H  |
| 37 | H  | L  | H  | H  | H  | L  | L  | H  |
| 38 | L  | L  | L  | L  | L  | L  | L  | H  |
| 39 | L  | L  | L  | H  | H  | L  | L  | H  |
| 40 | L  | L  | H  | L  | L  | L  | H  | L  |



BLOCK DIAGRAM

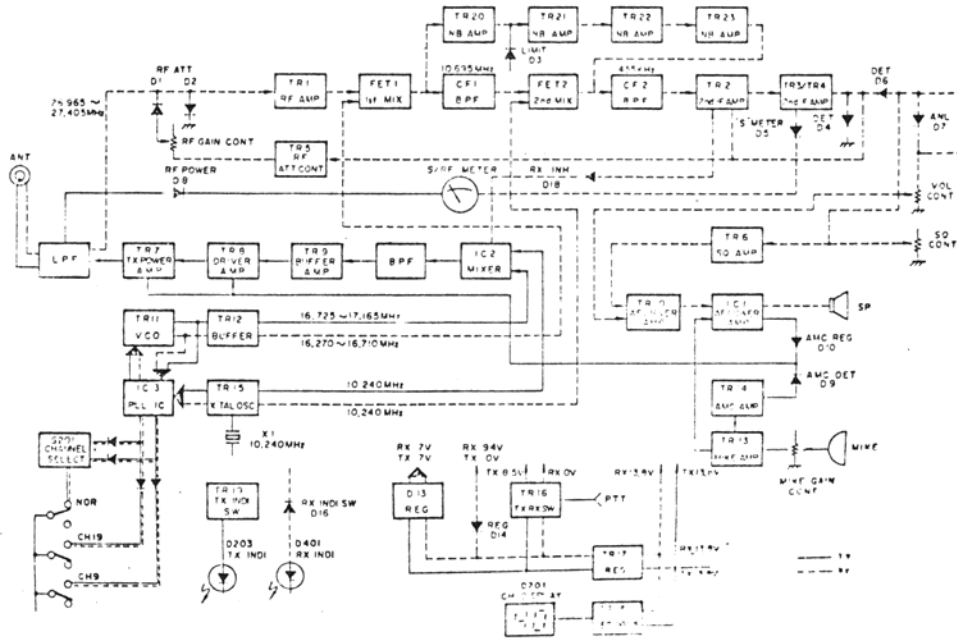
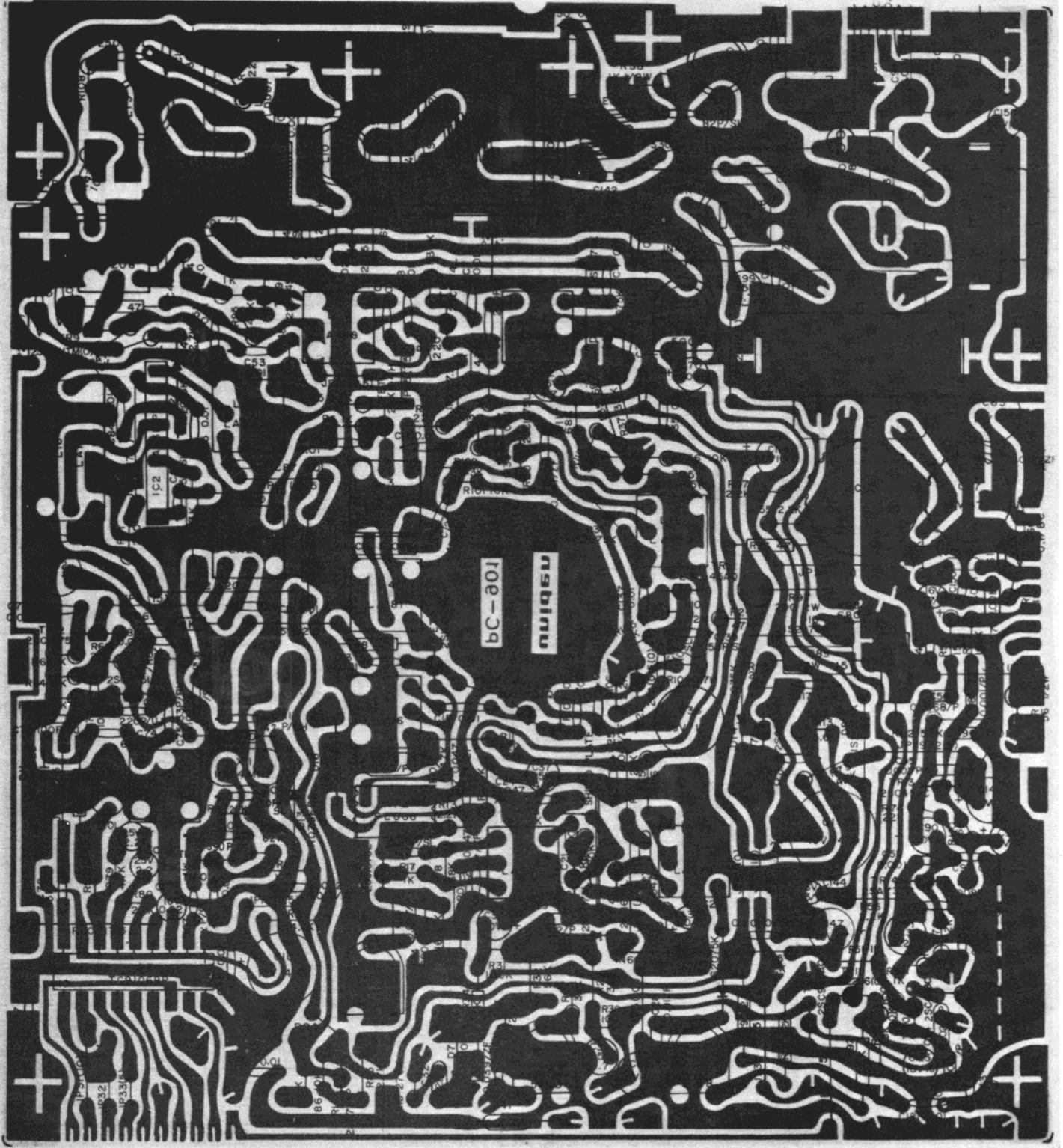
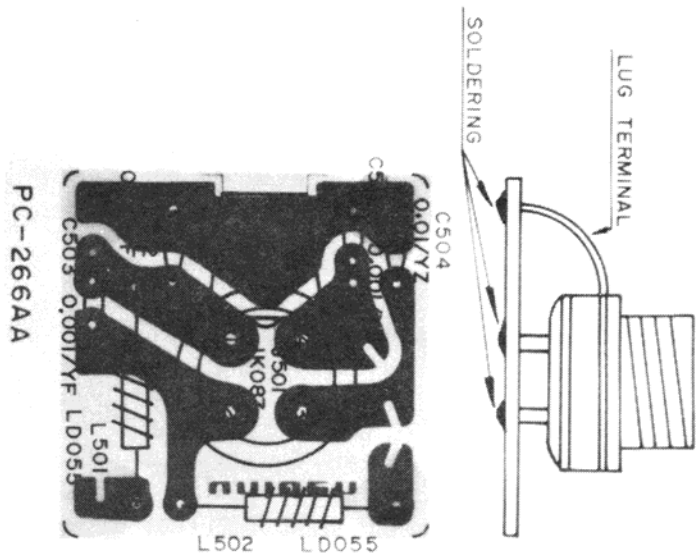


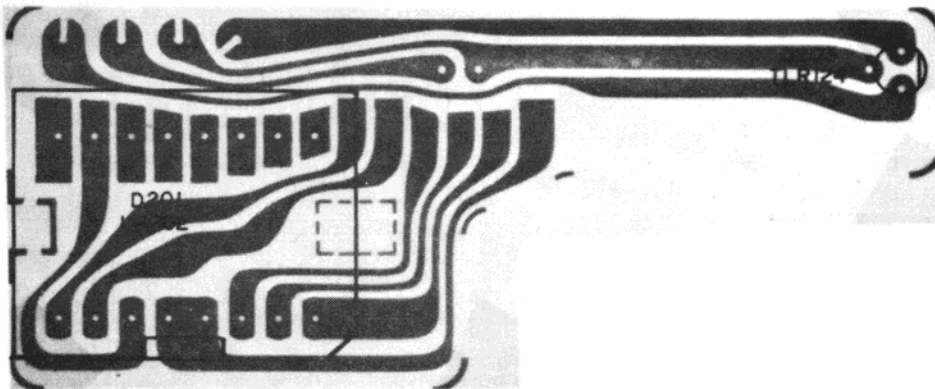
Table A Frequency Chart Of VCO And Divide Ratio N

| Antenna Frequency (MHz) | Channel Number | For Transmit(R/T=H) Divide Ratio (N) | VCO Frequency (KHz) | For Receive(R/T=L) Divide Ratio (N) | VCO Frequency (KHz) |
|-------------------------|----------------|--------------------------------------|---------------------|-------------------------------------|---------------------|
| 26.965                  | 1              | 3,345                                | 16,725              | 3,254                               | 16,270              |
| 26.975                  | 2              | 3,347                                | 16,735              | 3,256                               | 16,280              |
| 26.985                  | 3              | 3,349                                | 16,745              | 3,258                               | 16,290              |
| 27.005                  | 4              | 3,353                                | 16,765              | 3,262                               | 16,310              |
| 27.015                  | 5              | 3,355                                | 16,775              | 3,264                               | 16,320              |
| 27.025                  | 6              | 3,357                                | 16,785              | 3,266                               | 16,330              |
| 27.035                  | 7              | 3,359                                | 16,795              | 3,268                               | 16,340              |
| 27.055                  | 8              | 3,363                                | 16,815              | 3,272                               | 16,360              |
| 27.065                  | 9              | 3,365                                | 16,825              | 3,274                               | 16,370              |
| 27.075                  | 10             | 3,367                                | 16,835              | 3,276                               | 16,380              |
| 27.085                  | 11             | 3,369                                | 16,845              | 3,278                               | 16,390              |
| 27.105                  | 12             | 3,373                                | 16,865              | 3,282                               | 16,410              |
| 27.115                  | 13             | 3,375                                | 16,875              | 3,284                               | 16,420              |
| 27.125                  | 14             | 3,377                                | 16,885              | 3,286                               | 16,430              |
| 27.135                  | 15             | 3,379                                | 16,895              | 3,288                               | 16,440              |
| 27.155                  | 16             | 3,383                                | 16,915              | 3,292                               | 16,460              |
| 27.165                  | 17             | 3,385                                | 16,925              | 3,294                               | 16,470              |
| 27.175                  | 18             | 3,387                                | 16,935              | 3,296                               | 16,480              |
| 27.185                  | 19             | 3,389                                | 16,945              | 3,298                               | 16,490              |
| 27.205                  | 20             | 3,393                                | 16,965              | 3,302                               | 16,510              |
| 27.215                  | 21             | 3,395                                | 16,975              | 3,304                               | 16,520              |
| 27.225                  | 22             | 3,397                                | 16,985              | 3,306                               | 16,530              |
| 27.255                  | 23             | 3,403                                | 17,015              | 3,312                               | 16,560              |
| 27.235                  | 24             | 3,399                                | 16,995              | 3,308                               | 16,540              |
| 27.245                  | 25             | 3,401                                | 17,005              | 3,310                               | 16,550              |
| 27.265                  | 26             | 3,405                                | 17,025              | 3,314                               | 16,570              |
| 27.275                  | 27             | 3,407                                | 17,035              | 3,316                               | 16,580              |
| 27.285                  | 28             | 3,409                                | 17,045              | 3,318                               | 16,590              |
| 27.295                  | 29             | 3,411                                | 17,055              | 3,320                               | 16,600              |
| 27.305                  | 30             | 3,413                                | 17,065              | 3,322                               | 16,610              |
| 27.315                  | 31             | 3,415                                | 17,075              | 3,324                               | 16,620              |
| 27.325                  | 32             | 3,417                                | 17,085              | 3,326                               | 16,630              |
| 27.335                  | 33             | 3,419                                | 17,095              | 3,328                               | 16,640              |
| 27.345                  | 34             | 3,421                                | 17,105              | 3,330                               | 16,650              |
| 27.355                  | 35             | 3,423                                | 17,115              | 3,332                               | 16,660              |
| 27.365                  | 36             | 3,425                                | 17,125              | 3,334                               | 16,670              |
| 27.375                  | 37             | 3,427                                | 17,135              | 3,336                               | 16,680              |
| 27.385                  | 38             | 3,429                                | 17,145              | 3,338                               | 16,690              |
| 27.395                  | 39             | 3,431                                | 17,155              | 3,340                               | 16,700              |
| 27.405                  | 40             | 3,433                                | 17,165              | 3,342                               | 16,710              |

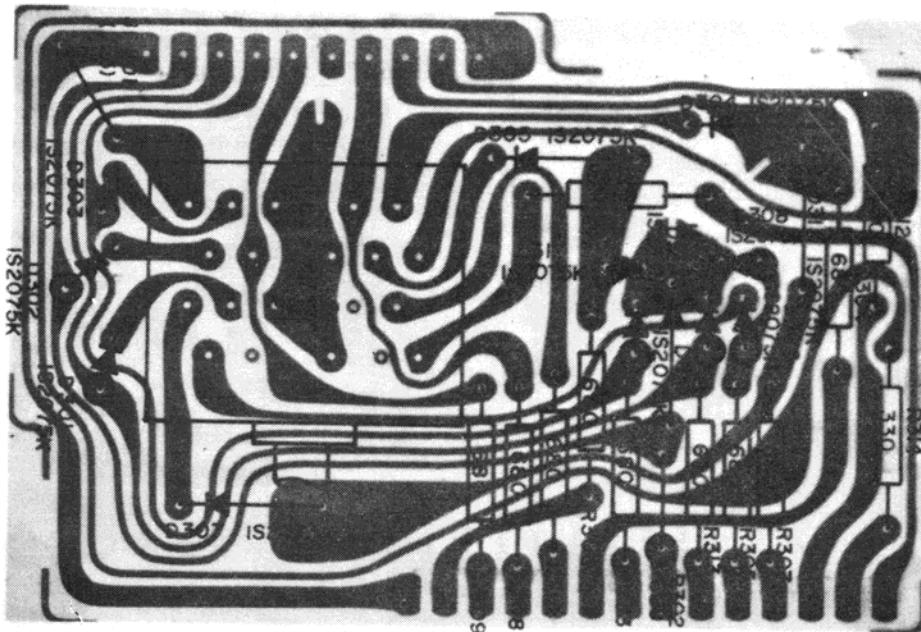




PC-789AA (CH LED PCB)



PC-969AA (CH SW PCB)



A X 711

| Part No. | Generic No.     | Symbol   | Description             |
|----------|-----------------|--|-------------------------|
| 3500-108 | PC - 969 AA     | --   | PC Board Main           |
| 3500-072 | PC - 789 AA     | --   | PC Board LED            |
| 3500-032 | PC - 266 AA     | --   | PC Board Mic Jack       |
| 2000-054 | TA - 7222 AP    | I C 1  | Integrated Circuit      |
| 2000-017 | TA - 7310 P     | I C 2  | Integrated Circuit      |
| 2000-035 | TC - 9106 BP    | I C 3  | Integrated Circuit      |
| 2000-107 | 2 SK 104 - H    | FET 1, 2   | Field Effect Transistor |
| 2000-218 | 2 SA 733 - P    | TR 14, 16  | Transistor              |
| 2000-291 | 2 SA 1015 - 0   | TR 22  | Transistor              |
| 2000-258 | 2 SC 945 A - Q  | TR 6, 19, 21, 23   | Transistor              |
| 2000-203 | 2 SC 458 - C    | TR 10, 13  | Transistor              |
| 2000-288 | 2 SC 380 TM - O | TR 15  | Transistor              |
| 2000-240 | ZSC 1674 - L    | TR 1   | Transistor              |
| 2000-213 | ZSC 1675 - L    | TR 2, 3, 4, 11, 12   | Transistor              |
| 2000-249 | 2 SC 2075       | TR 7   | Transistor              |
| 2000-247 | 2 SC 2236 - O   | TR 18  | Transistor              |
| 2000-248 | 2 SC 2236 - Y   | TR 17  | Transistor              |
| 2000-216 | 2 SC 941 TM - 0 | TR 9   | Transistor              |
| 2000-244 | 2 SC 1815 - O   | TR 5   | Transistor              |
| 2000-303 | IS 2075 - K     | D 1, 2, 3, 5, 7,<br>8, 9, 12, 14, 16,<br>18, 19, 301, 302,<br>303, 304, 305, 306,<br>307, 308, 309, 310,<br>311, 312, 313, | Diode                   |
| 2000-301 | IN 60 - AM      | D 4, 6   | Diode                   |
| 2000-320 | IN 4003         | D 10, 17   | Diode                   |
| 2000-311 | RD 7.5 EB 2     | D 13   | Diode Zener             |
| 2000-370 | RD 10 EB 1      | D 15   | Diode Zener             |
| 2000-344 | IS 2688 - EB    | D 11   | Diode Vari-Cap          |
| 2000-347 | TLR - 124       | D 203  | Diode LED               |
| 2000-306 | UR - 202        | D 201  | Diode LED               |
| 2000-355 | TLG - 12 HA     | D 401  | Diode LED               |
| 2200-001 | LA - 029        | L 1  | Coil                    |
| 2200-084 | LA - 088        | L 18   | Coil                    |
| 2200-081 | LA - 106        | L 5  | Coil                    |
| 2200-082 | LA - 138        | L 2  | Coil                    |
| 2200-083 | LA - 165        | L 15   | Coil                    |
| 2200-003 | LA - 180        | L 19   | Coil                    |
| 2200-004 | LA - 181        | L 3, 4   | Coil                    |
| 2200-045 | LA - 198        | L 18   | Coil                    |
| 2200-047 | LA - 201        | L 16   | Coil                    |
| 2200-048 | LA - 204        | L 6  | Coil                    |
| 2200-085 | LA - 208        | L 14   | Coil                    |
| 2200-086 | LA - 276        | L 7  | Coil                    |
| 2200-034 | LC - 073        | L 10   | Coil                    |
| 2200-020 | LC - 130        | L 13, 20   | Coil                    |
| 2200-017 | LD - 033        | L 11   | Coil                    |
| 2200-019 | LD - 055        | L 501, 502   | Coil                    |
| 2200-052 | LD - 087        | L 12, 50   | Ferrite Bead Core       |
| 2200-101 | LD - 088        | L 401  | Ferrite Bead Core       |
| 2200-087 | LE - 206        | L 9  | Coil                    |
| 2200-548 | LE - 207        | L 8  | Coil                    |
| 2300-001 | TF - 083        | T 2  | Transformer AF Choke    |
| 2600-008 | TF - 129        | T 1  | Transformer Output      |
| 1900-205 | RV - 182 500 B  | VR 2.5   | R Semi-fixed            |
| 1900-204 | RV - 182 20 KB  | VR 1.3   | R Semi-fixed            |

A X 711

| Part No. | Generic NO.    | Symbol                | Description             |
|----------|----------------|-----------------------|-------------------------|
| 1900-153 | RV - 182 50 KB | VR 4                  | R Semi-fixed            |
| 2200-301 | FL - 048       | CF 1                  | Filter Ceramic          |
| 2200-302 | FL - 066       | CF 2                  | Filter Ceramic          |
| 3000-155 | SR - 319       | S 301                 | Switch Rotary           |
| 3000-041 | SW - 275       | S 401,402,<br>403,404 | Switch Push             |
| 1900-130 | RV - 227 1 KB  | VR 401                | R Variable              |
| 1900-104 | RV - 320 50 KA | VR 403                | R Variable              |
| 1900-144 | RV - 334 50 KB | VR 402                | R Variable              |
| 1900-150 | RV - 343 10 KA | VR 404                | R Variable              |
| 3400-235 | YD - 019 (003) | --                    | Bush Insulation         |
| 3400-403 | YD - 039       | TA 7222 AP            | Insulation Sheet        |
| 3400-212 | YD - 041       | 2 SC 2075             | Insulation Sheet        |
| 1100-801 | YY -047        | --                    | Clamper Wire            |
| 2100-013 | QX - 074       | X 7                   | Crystal                 |
| 3100-009 | SP - 057       | SP 401                | Speaker                 |
| 3100-013 | SP - 072       |                       | Speaker (Extension)     |
| 2900-011 | MT - 147       | M 401                 | Meter                   |
| 3200-028 | MK - 172       | --                    | Microphone              |
| 1100-002 | JK - 068       | J 401                 | Jack Antenna            |
| 1100-004 | JK - 087       | J 501                 | Jack Microphone         |
| 1100-021 | JK - 089       | J 402,403             | Jack Speaker            |
| 1100-003 | Jk - 052       | J 405                 | Receptacle AC Power     |
| 2800-001 | FS - 011 (2A)  | F 401                 | Fuse                    |
| 2700-001 | W - 070088     | --                    | DC Power Cord           |
| 3300-118 |                |                       | Cover Top               |
| 3300-160 |                |                       | Cover Bottom            |
| 3300-210 |                |                       | Shield Plate            |
| 3300-401 |                |                       | Hanger Microphone       |
| 3300-558 |                |                       | Panel Front             |
| 1300-001 |                | ABS Cr-1              | Knob Channel            |
| 1300-002 |                |                       | Knob                    |
| 1300-003 |                |                       | Knob Core Push Button   |
| 1100-202 |                |                       | Screw Mounting          |
| 3400-161 |                |                       | Nameplate Brand         |
| 1700-201 |                |                       | Label Serial No.        |
| 1600-004 |                |                       | Label Warning DC Cord   |
| 3400-616 |                |                       | Nameplate Control       |
| 3400-108 |                |                       | Optical Filter Display  |
| 1100-315 |                |                       | Washer Rubber           |
| 1100-702 |                | M 3x6                 | Screw Pan Hd Plastic    |
| 1100-777 |                | M 3x6                 | Screw Pan Hd Plastic    |
| 1100-705 |                | M 3x8                 | Screw Nind Hd           |
| 1100-707 |                | 3x8                   | Tapping Screw Bind Hd   |
| 1100-708 |                | 3.5x8                 | Tapping Screw Round Hd  |
| 1100-709 |                | 5x10                  | Tapping Screw Round Hd  |
| 1100-725 |                | M 3x6                 | Tap Tight Screw Bind Hd |
| 1100-778 |                | M 3x6                 | Tap Tight Screw Bind Hd |
| 1100-711 |                | 3.5                   | Washer Lock             |
| 1100-712 |                | 5                     | Washer Star             |
| 1100-735 |                | M 3                   | Nut Hex                 |
| 1100-710 |                | M 3                   | Nut Flange              |



| Part No. | Generic No. | Symbol | Description               |
|----------|-------------|--------|---------------------------|
| 1100-305 |             |        | Spring Plate Knob         |
| 1100-311 |             |        | Rivet AL ID Plate         |
| 1100-307 |             |        | Terminal Lug, Solder      |
| 1500-009 |             |        | Styrofoam Pad             |
| 1500-109 |             |        | Styrofoam Pad             |
| 1500-252 |             |        | Display Box               |
| 1600-193 |             |        | Owners Instruction Manual |
| 1600-201 |             |        | Warranty Card             |
| 1600-501 |             |        | FCC Rules Part 95 FCC     |