

# DAEWOO

## Service Manual

### MINI COMPONENT SYSTEM

**Model :** AMI-218M  
AMI-318M  
AMI-518M  
AMI-219M  
AMI-319M  
AMI-519M  
AMI-224M  
AMI-324R  
AMI-524M



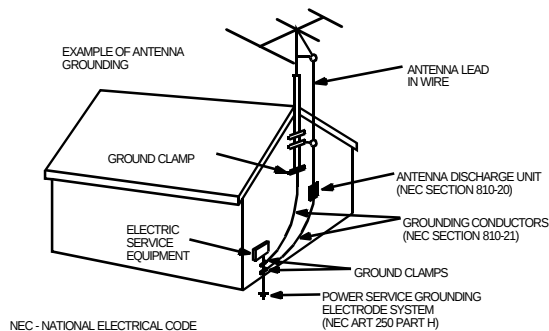
**DAEWOO ELECTRONICS CO., LTD.**

## TABLE OF CONTENTS

|                                    |    |
|------------------------------------|----|
| SAFETY PRECAUTIONS .....           | 2  |
| ADJUSTMENTS .....                  | 4  |
| EXPLODED VIEW AND PARTS LIST ..... | 7  |
| AMI-218M / 318M / 518M .....       | 7  |
| AMI-219M / 319M / 519M .....       | 9  |
| AMI-224M / 324R / 524M .....       | 11 |
| WIRING DIAGRAM .....               | 13 |
| BLOCK DIAGRAM .....                | 14 |
| SCHEMATIC DIAGRAM .....            | 15 |
| POWER / AMP .....                  | 15 |
| CD .....                           | 18 |
| TUNER.....                         | 19 |
| TAPE .....                         | 22 |
| CONTROL.....                       | 23 |
| PCB PATTERN LAYOUT.....            | 26 |
| ELECTRICAL PARTS LIST .....        | 29 |



13. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure 1.



14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

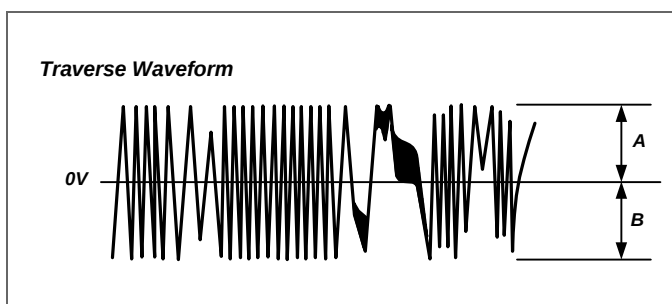
- a) The power-supply cord or the plug has been damaged; or
- b) Objects have fallen, or liquid has been spilled into the appliance; or
- c) The appliance has been exposed to rain; or
- d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e) The appliance has been dropped, or the enclosure damaged.

17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

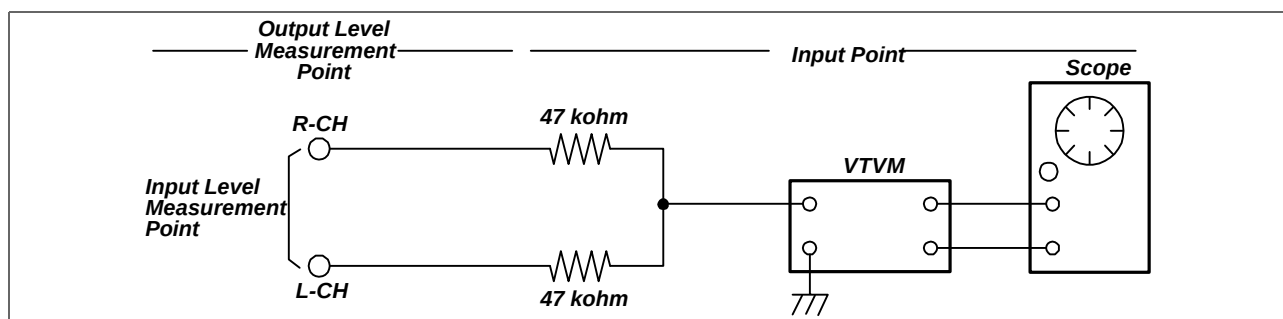


**E-F BALANCE ADJUSTMENT**

1. Connect oscilloscope to test point TP502 and TP503 on CD PCB.
2. Press power switch on.
3. Put test disc(TCD-781) in and press play button then pause button.
4. Pressing Fast Forward button, adjust RV502 to get that the oscilloscope waveform is symmetrical on the bottom in relation to 0V, and check this level.



\* Design and specifications may be subject to change without notice.

**3. TAPE SECTION**

Test Tape be used

| Tape     | Contents | Use                       |
|----------|----------|---------------------------|
| MTT-111N | 3 KHz    | Tape Speed Adjustment     |
| MTT-114N | 10 KHz   | Head Azimuth Adjustment   |
| MTT-5511 | Blank    | Record Frequency Property |

**HEAD ADJUSTMENT (AZIMUTH)**

1. 10KHz test tape(example: MTT-114N) must be used for this adjustment.
2. Connect to VTVM or oscilloscope to the headphone jack or speaker terminal.
3. Press the play button.
4. Adjust the azimuth by using a screw driver to maintain the max. L&R output voltage.
5. Adjust tape A(1), tape B(2) respectively, Please secure the azimuth position by using locking paint.

**RECORDING BIAS OSCILLATOR FREQUENCY ADJUSTMENT**

1. Connect the frequency counter to TP603, GND.
2. Press the REC button.
3. Adjust L603 to obtain 80 KHz $\pm$ 100Hz





























































































## ELECTRICAL PARTS LIST

| Part Name     | Part Code  | Q'ty | Description    | Location                                                                                                                                                        | Part Name       | Part Code  | Q'ty | Description               | Location                                                                                                          |
|---------------|------------|------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|------|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| R CARBON FILM | RD-AZ124J- | 3    | 1/6 120K OHM J | R513 R535 R536                                                                                                                                                  | R CARBON FILM   | RD-AZ563J- | 5    | 1/6 56K OHM J             | R514 R517 R624 R805 R806                                                                                          |
| R CARBON FILM | RD-AZ151J- | 4    | 1/6 150 OHM J  | R627 R628 R732 R738                                                                                                                                             | R CARBON FILM   | RD-AZ681J- | 1    | 1/6 680 OHM J             | R006                                                                                                              |
| R CARBON FILM | RD-AZ152J- | 3    | 1/6 1.5K OHM J | R751 R752 R753                                                                                                                                                  | R CARBON FILM   | RD-AZ682J- | 5    | 1/6 6.8K OHM J            | R219 R609 R610 R631 R632                                                                                          |
| R CARBON FILM | RD-AZ153J- | 9    | 1/6 15K OHM J  | R403 R404 R411 R412 R515 R553 R554 R643 R644                                                                                                                    | R CARBON FILM   | RD-AZ683J- | 4    | 1/6 68K OHM J             | R607 R608 R649 R706                                                                                               |
| R CARBON FILM | RD-AZ154J- | 3    | 1/6 150K OHM J | R503 R525 R821                                                                                                                                                  | R CARBON FILM   | RD-AZ820J- | 3    | 1/6 82 OHM J              | R506 R605 R606                                                                                                    |
| R CARBON FILM | RD-AZ181J- | 2    | 1/6 180 OHM J  | R733 R754                                                                                                                                                       | R CARBON FILM   | RD-AZ821J- | 6    | 1/6 820 OHM J             | R635 R636 R745 R749 R807 R808                                                                                     |
| R CARBON FILM | RD-AZ182J- | 2    | 1/6 1.8K OHM J | R413 R414                                                                                                                                                       | R CARBON FILM   | RD-AZ822J- | 5    | 1/6 8.2K OHM J            | R401 R402 R507 R532 R533                                                                                          |
| R CARBON FILM | RD-AZ183J- | 5    | 1/6 18K OHM J  | R201 R203 R526 R813 R814                                                                                                                                        | R CARBON FILM   | RD-2Y229J- | 1    | 1/2 2.2 OHM J             | R550                                                                                                              |
| R CARBON FILM | RD-AZ184J- | 7    | 1/6 180K OHM J | R504 R623 R625 R626 R637 R638 R651                                                                                                                              | R CARBON FILM   | RD-4Z100J- | 6    | 1/4 10 OHM J              | R588 R589 R809 R810 R811 R812                                                                                     |
| R CARBON FILM | RD-AZ220J- | 2    | 1/6 22 OHM J   | JW117 R534                                                                                                                                                      | R FUSIBLE       | RF-2Y109J- | 2    | 1/2W 1 OHM J              | RF901 RF902                                                                                                       |
| R CARBON FILM | RD-AZ221J- | 4    | 1/6 220 OHM J  | R546 R552 R933 R934                                                                                                                                             | R METAL FILM    | RN-2Y475J- | 1    | 1/2 4.7M OHM J            | R901                                                                                                              |
| R CARBON FILM | RD-AZ222J- | 7    | 1/6 2.2K OHM J | R211 R212 R253 R264 R407 R408 R581                                                                                                                              | R SEMI FIXED    | RV1417222- | 1    | 1/10 2.2K OHM B V6EK-PV1S | RV601                                                                                                             |
| R CARBON FILM | RD-AZ223J- | 6    | 1/6 22K OHM J  | R107 R528 R530 R615 R616 R911                                                                                                                                   | R SEMI FIXED    | RV6417223- | 3    | VM6CK-PV(1S) B 22K OHM    | RV201 RV501 RV502                                                                                                 |
| R CARBON FILM | RD-AZ224J- | 2    | 1/6 220K OHM J | R629 R630                                                                                                                                                       | RESONATOR       | 5PCSABMTZ- | 1    | "CSA8MTZ, 8MHZ"           | XC702                                                                                                             |
| R CARBON FILM | RD-AZ271J- | 3    | 1/6 270 OHM J  | R654 R734 R744                                                                                                                                                  | RESONATOR CERA  | 5PCSA16R93 | 1    | CSA16.93MXZ04             | XC501                                                                                                             |
| R CARBON FILM | RD-AZ272J- | 6    | 1/6 2.7K OHM J | R222 R223 R611 R612 R617 R618                                                                                                                                   | SCREW TAPP-TITE | 7173301011 | 15   | TT2 BIN 3X10 MFZN         | 00160 00190 00280 00290 00300                                                                                     |
| R CARBON FILM | RD-AZ273J- | 3    | 1/6 27K OHM J  | R542 R555 R556                                                                                                                                                  | SCREW TAPP-TITE | 7173301212 | 18   | TT2 BIN 3X12 MFZN BK      | 00140 00150 00170                                                                                                 |
| R CARBON FILM | RD-AZ331J- | 4    | 1/6 330 OHM J  | R007 R441 R663 R735                                                                                                                                             | SW TACT         | 5S50101001 | 19   | KPT-1105A 1C-1P           | SW701 SW702 SW703 SW704 SW705 SW706 SW707 SW710 SW711 SW712 SW713 SW714 SW715 SW716 SW717 SW718 SW719 SW720 SW721 |
| R CARBON FILM | RD-AZ332J- | 9    | 1/6 3.3K OHM J | R005 R106 R221 R415 R416 R516 R541 R543 R922                                                                                                                    | SW TACT         | 5S50101008 | 2    | KPT-1105V 1C-1P           | SW708 SW709                                                                                                       |
| R CARBON FILM | RD-AZ333J- | 2    | 1/6 33K OHM J  | R621 R656                                                                                                                                                       | TR              | TKRC107M-- | 1    | KRC107-M TAPPING(KSR1006) | Q701                                                                                                              |
| R CARBON FILM | RD-AZ334J- | 5    | 1/6 330K OHM J | R650 R673 R724 R727 R730                                                                                                                                        | TR              | TKSA928AY- | 2    | KSA928A-Y                 | Q501 Q502                                                                                                         |
| R CARBON FILM | RD-AZ391J- | 3    | 1/6 390 OHM J  | R736 R741 R746                                                                                                                                                  | TR              | TKSC2331Y- | 1    | KSC2331Y                  | Q503                                                                                                              |
| R CARBON FILM | RD-AZ392J- | 3    | 1/6 3.9K OHM J | R529 R633 R634                                                                                                                                                  | TR              | TKSR1003-- | 1    | KSR1003                   | Q504                                                                                                              |
| R CARBON FILM | RD-AZ393J- | 5    | 1/6 39K OHM J  | R520 R537 R572 R586 R587                                                                                                                                        | TR              | TZTA107M-- | 1    | KTA107M(AUTO)             | Q003                                                                                                              |
| R CARBON FILM | RD-AZ470J- | 2    | 1/6 47 OHM J   | R209 R252                                                                                                                                                       | TR              | TZTA1266Y- | 5    | KTA1266Y-(AUTO)(1015Y)    | Q603 Q604 Q608 Q611 Q803                                                                                          |
| R CARBON FILM | RD-AZ471J- | 2    | 1/6 470 OHM J  | R742 R747                                                                                                                                                       | TR              | TZTA1273Y- | 2    | KTA1273Y(966Y)            | Q621 Q901                                                                                                         |
| R CARBON FILM | RD-AZ472J- | 32   | 1/6 4.7K OHM J | R101 R103 R104 R105 R207 R210 R547 R561 R562 R565 R566 R573 R574 R575 R576 R577 R578 R582 R583 R642 R645 R646 R664 R667 R670 R671 R677 R678 R679 R708 R758 R759 | TR              | TZTA966--- | 1    | KTA966                    | Q622                                                                                                              |
| R CARBON FILM | RD-AZ473J- | 8    | 1/6 47K OHM J  | R439 R440 R512 R653 R658 R824 R914 R915                                                                                                                         | TR              | TZTC3194Y- | 1    | KTC3194Y                  | Q001                                                                                                              |
| R CARBON FILM | RD-AZ474J- | 6    | 1/6 470K OHM J | R217 R218 R443 R444 R501 R540                                                                                                                                   | TR              | TZTC3198Y- | 20   | KTC3198Y-(1815Y) (AUTO)   | Q201 Q202 Q505 Q605 Q606 Q607 Q609 Q610 Q612 Q613 Q614 Q615 Q616 Q617 Q618 Q619 Q620 Q801 Q802 Q804               |
| R CARBON FILM | RD-AZ479J- | 1    | 1/6 4.7 OHM J  | R652                                                                                                                                                            | TRANS POWER     | 5TP8060788 | 1    | EI=60 230V 50HZ           | PT901                                                                                                             |
| R CARBON FILM | RD-AZ561J- | 7    | 1/6 560 OHM J  | R569 R570 R571 R668 R740 R743 R748                                                                                                                              | TUNER PACK      | 9737612900 | 1    | KST-F701VA-4              | TU001                                                                                                             |
| R CARBON FILM | RD-AZ562J- | 4    | 1/6 5.6K OHM J | R429 R430 R524 R527                                                                                                                                             | VFD             | DSVA09MM10 | 1    | SVA09MM10                 | FD701                                                                                                             |
|               |            |      |                |                                                                                                                                                                 | WIRE JUMPER     | W581GY6095 | 88   | AWG22 1/0.65 SN 6 AUTO    | D601 D913 L502 R002                                                                                               |

## 9. 324R (RDS 3 Band)

| Part Name   | Part Code  | Q'ty | Description               | Location                                                                                                                                              |
|-------------|------------|------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| AM RF UNIT  | 5LR0000826 | 1    | RBW07VB-K5020             | L101                                                                                                                                                  |
| ANT AM LOOP | 9CD6810200 | 1    | LOOP-7                    | 90                                                                                                                                                    |
| ANTENNA FM  | 9736806000 | 2    | 2M T-ANT                  | AT001 00080                                                                                                                                           |
| C CERA      | CCXB1H101K | 1    | 50V B 100PF K (TAPPING)   | CC203                                                                                                                                                 |
| C CERA      | CCXB1H102K | 6    | 50V B 1000PF K (TAPPING)  | CC001 CC253 CC254 CC601 CC602 CC607                                                                                                                   |
| C CERA      | CCXB1H152K | 2    | 50V B 1500PF K (TAPPING)  | CC603 CC604                                                                                                                                           |
| C CERA      | CCXB1H272K | 2    | 50V B 2700PF K (TAPPING)  | CC801 CC802                                                                                                                                           |
| C CERA      | CCXB1H331K | 1    | 50V B 330PF K (TAPPING)   | CC270                                                                                                                                                 |
| C CERA      | CCXB1H472K | 1    | 50V B 4700PF K (TAPPING)  | CC213                                                                                                                                                 |
| C CERA      | CCXB1H561K | 2    | 50V B 560PF K (TAPPING)   | CC210 CC211                                                                                                                                           |
| C CERA      | CCXB1H682K | 1    | 50V B 6800PF K (TAPPING)  | CC204                                                                                                                                                 |
| C CERA      | CCXF1H103Z | 21   | 50V F 0.01MF Z (TAPPING)  | CC002 CC004 CC102 CC201 CC205 CC206 CC207 CC209 CC251 CC252 CC257 CC275 CC501 CC502 CC503 CC507 CC515 CC521 CC529 CC535 CC536                         |
| C CERA      | CCXF1H104Z | 19   | 50V F 0.1MF Z             | CC005 CC006 CC101 CC202 CC403 CC504 CC505 CC506 CC511 CC512 CC513 CC526 CC527 CC537 CC544 CC701 CC704 CC711 CC717                                     |
| C CERA      | CCXF1H223Z | 25   | 50V F 0.022MF Z (TAPPING) | CC404 CC408 CC409 CC702 CC703 CC710 CC716 CC718 CC825 CC911 CC912 CC913 CC914 CC915 CC916 CC917 CC918 CC919 CC920 CC921 CC922 CC923 CC924 CC925 CC926 |
| C CERA      | CCXF1H473Z | 5    | 50V F 0.047MF Z (TAPPING) | CC103 CC212 CC509 CC522 CC528                                                                                                                         |
| C CERA      | CCZB1E102K | 3    | 25V B 1000PF K (AXIAL)    | CC520 CC533 CC534                                                                                                                                     |
| C CERA      | CCZB1E151K | 2    | 25V B 150PF K (AXIAL)     | CC531 CC532                                                                                                                                           |
| C CERA      | CCZB1E152K | 1    | 25V B 1500PF K (AXIAL)    | CC523                                                                                                                                                 |
| C CERA      | CCZB1E222K | 2    | 25V B 2200PF K (AXIAL)    | CC510 CC516                                                                                                                                           |
| C CERA      | CCZB1E391K | 1    | 25V B 390PF K (AXIAL)     | CC508                                                                                                                                                 |
| C CERA      | CCZB1E472K | 3    | 25V B 4700PF K (AXIAL)    | CC518 CC542 CC543                                                                                                                                     |
| C CERA      | CCZB1E682K | 1    | 25V B 6800PF K (AXIAL)    | CC514                                                                                                                                                 |
| C CERA      | CXCH1H101J | 5    | 50V CH 100PF J (TAPPING)  | CC401 CC402 CC405 CC406 CC563                                                                                                                         |
| C CERA      | CXCH1H120J | 1    | 50V CH 12PF J (TAPPING)   | CC104                                                                                                                                                 |
| C CERA      | CXCH1H150J | 1    | 50V CH 15PF J (TAPPING)   | CC712                                                                                                                                                 |
| C CERA      | CXCH1H180J | 1    | 50V CH 18PF J (TAPPING)   | CC713                                                                                                                                                 |
| C CERA      | CXCH1H330J | 4    | 50V CH 33PF J (TAPPING)   | CC255 CC256 CC714 CC715                                                                                                                               |
| C CERA      | CXCH1H331J | 2    | 50V CH 330PF J (TAPPING)  | CC605 CC606                                                                                                                                           |
| C CERA      | CXCH1H470J | 1    | 50V CH 47PF J (TAPPING)   | CC277                                                                                                                                                 |
| C CERA      | CXCH1H820J | 1    | 50V CH 82PF J (TAPPING)   | CC276                                                                                                                                                 |
| C CERA      | CZCH1E609K | 1    | CH 25V 6PF K AXIAL        | CC519                                                                                                                                                 |
| C CERA      | CZCH1E809K | 1    | CH 25V 8PF K AXL 52MM     | CC517                                                                                                                                                 |
| C CERA      | CZCH1H270J | 2    | CH 50V 27PF J AXL 52MM    | CC524 CC525                                                                                                                                           |
| C ELECTRO   | CEXE1C102A | 1    | 16V RS 1000MF 13X20       | CE515                                                                                                                                                 |
| C ELECTRO   | CEXF1A102V | 1    | 10V RSS 1000MF (10X16) TP | CE705                                                                                                                                                 |
| C ELECTRO   | CEXF1C221V | 5    | 16V RSS 220MF (8X11.5) TP | CE507 CE511 CE512 CE513 CE517                                                                                                                         |

| Part Name          | Part Code  | Q'ty | Description               | Location                                                                                  |
|--------------------|------------|------|---------------------------|-------------------------------------------------------------------------------------------|
| C ELECTRO          | CEXF1C470V | 11   | 16V RSS 47MF (5X11) TP    | CE001 CE203 CE601 CE602 CE605 CE608 CE611 CE612 CE620 CE621 CE622                         |
| C ELECTRO          | CEXF1E101V | 12   | 25V RSS 100MF (6.3X11) TP | CE201 CE214 CE251 CE417 CE506 CE508 CE509 CE510 CE514 CE516 CE524 CE706                   |
| C ELECTRO          | CEXF1E221V | 2    | 25V RSS 220MF (8X11.5) TP | CE102 CE213                                                                               |
| C ELECTRO          | CEXF1E470V | 2    | 25V RSS 47MF (5X11) TP    | CE518 CE523                                                                               |
| C ELECTRO          | CEXF1H100V | 10   | 50V RSS 10MF (5X11) TP    | CE206 CE418 CE501 CE504 CE603 CE604 CE618 CE619 CE708 CE804                               |
| C ELECTRO          | CEXF1H109V | 15   | 50V RSS 1MF (5X11) TP     | CE205 CE207 CE208 CE209 CE210 CE211 CE613 CE614 CE615 CE616 CE702 CE801 CE802 CE803 CE805 |
| C ELECTRO          | CEXF1H220V | 2    | 50V RSS 22MF (5X11) TP    | CE204 CE607                                                                               |
| C ELECTRO          | CEXF1H228V | 1    | 50V RSS 0.22MF (5X11) TP  | CE212                                                                                     |
| C ELECTRO          | CEXF1H229V | 14   | 50V RSS 2.2MF (5X11) TP   | CE101 CE411 CE412 CE413 CE414 CE415 CE416 CE606 CE704 CE707 CE904 CE905 CE906 CE907       |
| C ELECTRO          | CEXF1H339V | 4    | 50V RSS 3.3MF (5X11) TP   | CE202 CE273 CE609 CE610                                                                   |
| C ELECTRO          | CEXF1H470V | 6    | 50V RSS 47MF (6.3X11) TP  | CE272 CE617 CE911 CE913 CE914 CE915                                                       |
| C ELECTRO          | CEXF1H478V | 11   | 50V RSS 0.47MF (5X11) TP  | CE401 CE402 CE403 CE404 CE405 CE406 CE407 CE408 CE502 CE503 CE505                         |
| C ELECTRO          | CEXF1H479V | 4    | 50V RSS 4.7MF (5X11) TP   | CE519 CE520 CE521 CE522                                                                   |
| C ELECTRO          | CEXF1V102V | 1    | 35V RSS 1000MF (13X25) TP | CE903                                                                                     |
| C ELECTRO          | CEXF1V222V | 2    | 35V RSS 2200MF 16X31.5    | CE901 CE902                                                                               |
| C MYLAR            | CMXM1H102J | 6    | 50V 0.001MF J (TP)        | CM601 CM602 CM605 CM606 CM607 CM608                                                       |
| C MYLAR            | CMXM1H103J | 4    | 50V 0.01MF J (TP)         | CM202 CM203 CM204 CM205                                                                   |
| C MYLAR            | CMXM1H104J | 6    | 50V 0.1MF J               | CM405 CM406 CM407 CM408 CM801 CM802                                                       |
| C MYLAR            | CMXM1H122J | 2    | 50V 0.0012MF J            | CM505 CM506                                                                               |
| C MYLAR            | CMXM1H152J | 2    | 50V 1500PF J              | CM615 CM616                                                                               |
| C MYLAR            | CMXM1H153J | 2    | 50V 0.015MF J (TP)        | CM201 CM613                                                                               |
| C MYLAR            | CMXM1H183J | 3    | 50V 0.018MF J             | CM503 CM603 CM604                                                                         |
| C MYLAR            | CMXM1H223J | 1    | 50V 0.022MF J             | CM611                                                                                     |
| C MYLAR            | CMXM1H272J | 1    | 50V 2700PF J              | CM614                                                                                     |
| C MYLAR            | CMXM1H332J | 1    | 50V 3300 PF J             | CM612                                                                                     |
| C MYLAR            | CMXM1H333J | 2    | 50V 0.033MF J (TP)        | CM501 CM504                                                                               |
| C MYLAR            | CMXM1H393J | 2    | 50V 0.039MF J             | CM609 CM610                                                                               |
| C MYLAR            | CMXM1H473J | 2    | 50V 0.047MF J             | CM804 CM805                                                                               |
| C MYLAR            | CMXM1H562J | 4    | 50V 5600 PF J             | CM206 CM207 CM409 CM410                                                                   |
| C MYLAR            | CMXM1H683J | 1    | 50V 0.068 MF J            | CM502                                                                                     |
| CLIP FUSE          | 9734600700 | 2    | FC-5N                     | FC903 FC904                                                                               |
| COIL BIAS OSC      | 5L0503K643 | 1    | SM-10F 5.04MH             | L601                                                                                      |
| COIL CHOKE         | 5LC682K822 | 2    | 6.8MH                     | L204 L205                                                                                 |
| COIL DESCRIMI-NATO | 5107FBK473 | 1    | 7X7 BLK KSZ-73S           | L203                                                                                      |
| COIL PEAKING       | 5CP2100K02 | 2    | 10UH K (AXIAL 3.5MM)      | L001 L251                                                                                 |

## ELECTRICAL PARTS LIST

| Part Name       | Part Code   | Q'ty | Description                  | Location                                                                                                  |
|-----------------|-------------|------|------------------------------|-----------------------------------------------------------------------------------------------------------|
| CONN AS         | 9736407600  | 1    | PIN BASE 53095-1310 13P      | CN701                                                                                                     |
| CONN AS         | 9738832100  | 1    | 7P 200 P=2.5 BOARDIN         | CN509 CW504                                                                                               |
| CONN AS         | 9738833900  | 1    | #22 8P BOARD-IN 300MM        | CN901 CW901                                                                                               |
| CONN AS         | 9738834700  | 1    | UL 1007 #26 1P 110MM         | W001                                                                                                      |
| CONN AS         | 9738834900  | 1    | UL 2468 #26 4P+3P+2P 360     | CN601 CW601                                                                                               |
| CONN AS         | 9738835000  | 1    | UL 2851 #28X2C0 3P 260MM     | CN603 CW603                                                                                               |
| CONN AS         | 9738835200  | 1    | UL 2851 #28X3C0 5P 230MM     | CN602 CW602                                                                                               |
| CONN AS         | 9738835300  | 1    | UL 1007 #26 1P 110MM         | W002                                                                                                      |
| CONN AS         | 9738835400  | 1    | UL 1007 #26 1P 260MM         | W003                                                                                                      |
| CONN AS         | 9738840800  | 1    | FFC 16P P1.0X250MM R         | CN501                                                                                                     |
| CONN AS         | 9738840900  | 1    | FFC 19P P1.25X110MM K        | CN508                                                                                                     |
| CONN PIN        | 9736407800  | 1    | 53095-1010 10PIN ANGLE       | CN702                                                                                                     |
| CONN WAFER      | 9CD6258800  | 1    | 2P S2B-XH-A                  | CW101                                                                                                     |
| CONN WAFER      | 9CD6259300  | 1    | 52807-1610                   | CW501                                                                                                     |
| CONN WAFER      | 9CD6259400  | 1    | 2001-WS-12P                  | CW507                                                                                                     |
| CONN WAFER      | 9CD6259500  | 1    | 2001-WS-6P                   | CW503                                                                                                     |
| CONN WAFER      | 9CD6259600  | 1    | 2503-WS-2P                   | CW502                                                                                                     |
| CONN WAFER      | 9736407900  | 1    | 52084-1010 10P BOTTOM        | CW702                                                                                                     |
| CONN WAFER      | 9736408300  | 1    | 52492-1920 19P BOTTOM        | CW703                                                                                                     |
| CONN WAFER      | 9736408400  | 1    | 52045-1945 19P               | CW508                                                                                                     |
| CORD AC         | 9736900200  | 1    | "KKP419C,KLCE-2F,0.75SSQURE" | CD901                                                                                                     |
| CRYSTAL QUARTZ  | 5XA32R768-  | 1    | DT-38 32.768KHZ 20PPM        | XC701                                                                                                     |
| CRYSTAL QUARTZ  | 5XA7R2000D  | 1    | HC-18/U 7.200000MHZ 25PPM    | XC251                                                                                                     |
| DIODE           | DRL202----  | 4    | RL202                        | D904 D905 D906 D907                                                                                       |
| DIODE           | DZN4148---  | 21   | 1N4148 AUTO 52MM             | D201 D470 D471 D472 D473 D501 D502 D602 D604 D605 D606 D607 D608 D609 D610 D701 D702 D703 D704 D810 JW211 |
| DIODE           | D1N4001---  | 4    | 1N4001                       | D901 D902 D911 D912                                                                                       |
| DIODE ZENER     | DZTZ3R9B--  | 1    | MTZ3.9B                      | DZ502                                                                                                     |
| DIODE ZENER     | DZTZ30B---- | 1    | MTZ30B                       | DZ901                                                                                                     |
| DIODE ZENER     | DZTZ5R6B--  | 3    | UZ-5.6B                      | DZ501 DZ503 DZ504                                                                                         |
| DIODE ZENER     | DZTZ6R2B--  | 3    | MTZ6.2B                      | DZ601 DZ602 DZ902                                                                                         |
| FET             | TKTK117Y--  | 2    | KTK117(Y)                    | Q601 Q602                                                                                                 |
| FILTER          | 5PPCFAZ077  | 1    | PCFAZ077                     | CF201                                                                                                     |
| FILTER CERA     | 5PE107MJA-  | 1    | SFE 10.7MHZ RED              | CF002                                                                                                     |
| FILTER CERA     | 5PE107MS2A  | 1    | SFE107MS2-A                  | CF001                                                                                                     |
| FUSE GLASS TUBE | 5FSGB4012L  | 1    | SEMKO TL 400MA 250V MF51     | F902                                                                                                      |
| IC              | 1BA1450S--  | 1    | BA1450S                      | IC201                                                                                                     |
| IC              | 1DBL2084--  | 2    | DBL2084(D/W)                 | IC504 IC506                                                                                               |
| IC              | 1LC72130--  | 1    | LC72130                      | IC202                                                                                                     |
| IC              | 1L4959----  | 1    | L4959                        | IC402                                                                                                     |
| IC              | 1MC7805---- | 1    | MC 7805 (KA7805)             | IC205                                                                                                     |
| IC              | 1M24C04---- | 1    | M24C04-BN6                   | IC705                                                                                                     |

| Part Name       | Part Code  | Q'ty | Description           | Location                                                                                                                                                                                                                         |
|-----------------|------------|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IC              | 1M38199208 | 1    | U-COM M38199          | IC702                                                                                                                                                                                                                            |
| IC              | 1TA8189N-- | 1    | TA8189N               | IC601                                                                                                                                                                                                                            |
| IC              | 1TDA7440D- | 1    | TDA7440D              | IC401                                                                                                                                                                                                                            |
| IC              | 1TDA7479D- | 1    | TDA7479D              | IC204                                                                                                                                                                                                                            |
| IC AUDIO        | 1KA9270--- | 1    | KA9270                | IC505                                                                                                                                                                                                                            |
| IC AUDIO DSP    | 1KA9282B-- | 1    | KA9282B               | IC502                                                                                                                                                                                                                            |
| IC CHIP         | 1KA9258D-- | 1    | KA9258D               | IC503                                                                                                                                                                                                                            |
| IC CHIP RF      | 1KA9220B-- | 1    | KA9220B               | IC501                                                                                                                                                                                                                            |
| IC PRE AMP      | 1TM97CT38P | 1    | LTM97CT-38P           | IC704                                                                                                                                                                                                                            |
| IC SWITCHING    | 1BA7755A-- | 1    | BA7755A (HEAD SW)     | IC602                                                                                                                                                                                                                            |
| JACK ANT        | 9736321900 | 1    | PAT645                | J001                                                                                                                                                                                                                             |
| JACK HEAD-PHONE | 9766319501 | 1    | HTJ-064-05B GOLD      | J801                                                                                                                                                                                                                             |
| JACK RCA        | 9CD6313700 | 1    | S-436P                | J401                                                                                                                                                                                                                             |
| JACK SPEAKER    | 9736320500 | 1    | CJ-9007-040           | J802                                                                                                                                                                                                                             |
| LED             | DLTL16KGE- | 1    | LTL-16KGE(GREEN)PI3.1 | LD707                                                                                                                                                                                                                            |
| PCB CD          | 9CD6574800 | 1    | 247X197               | B501                                                                                                                                                                                                                             |
| PCB FRONT       | 9CD6576000 | 1    | 247X139X1.6T          | B001                                                                                                                                                                                                                             |
| PCB MAIN        | 9CD6576300 | 1    | 330X197X1.6T          | B001                                                                                                                                                                                                                             |
| PCB POWER       | 9CD6576301 | 1    | 105X78X1.6T           | B901                                                                                                                                                                                                                             |
| PIN WAFER       | 9736407700 | 1    | 52084-1310 13P BOTTOM | CW701                                                                                                                                                                                                                            |
| PIN WRAPPING    | 9713550400 | 4    | 1.0X2.5X15            | TP501 TP502 TP503 TP504                                                                                                                                                                                                          |
| PIN WRAPPING    | 9716404000 | 2    | MFZNI.1X1.1 PANASERT  | TP901 TP902                                                                                                                                                                                                                      |
| R CARBON FILM   | RD-AZ100J- | 7    | 1/6 10 OHM J          | R004 R009 R206 R255 R545 R726 R921                                                                                                                                                                                               |
| R CARBON FILM   | RD-AZ101J- | 13   | 1/6 100 OHM J         | R008 R102 R227 R228 R436 R437 R546 R657 R672 R686 R725 R731 R737                                                                                                                                                                 |
| R CARBON FILM   | RD-AZ102J- | 45   | 1/6 1K OHM J          | R208 R215 R216 R251 R256 R260 R261 R262 R263 R409 R410 R423 R424 R431 R432 R442 R511 R521 R522 R563 R564 R580 R601 R602 R603 R604 R613 R614 R639 R640 R647 R648 R655 R659 R660 R665 R666 R803 R804 R815 R816 R817 R818 R819 R820 |
| R CARBON FILM   | RD-AZ103J- | 32   | 1/6 10K OHM J         | R205 R213 R214 R254 R257 R258 R276 R277 R579 R619 R620 R641 R662 R669 R674 R675 R680 R681 R682 R683 R685 R700 R705 R719 R720 R721 R750 R825 R910 R912 R913 R923                                                                  |
| R CARBON FILM   | RD-AZ104J- | 24   | 1/6 100K OHM J        | R109 R421 R422 R425 R426 R433 R434 R435 R502 R510 R518 R519 R548 R549 R567 R568 R584 R585 R661 R722 R728 R729 R823 R824                                                                                                          |
| R CARBON FILM   | RD-AZ105J- | 6    | 1/6 1M OHM J          | R505 R508 R559 R560 R622 R684                                                                                                                                                                                                    |
| R CARBON FILM   | RD-AZ106J- | 1    | 1/6 10M OHM J         | R723                                                                                                                                                                                                                             |
| R CARBON FILM   | RD-AZ109J- | 2    | 1/6 1 OHM J           | R939 R940                                                                                                                                                                                                                        |
| R CARBON FILM   | RD-AZ121J- | 1    | 1/6 120 OHM J         | R551                                                                                                                                                                                                                             |
| R CARBON FILM   | RD-AZ122J- | 2    | 1/6 1.2K OHM J        | R405 R406                                                                                                                                                                                                                        |



## ELECTRICAL PARTS LIST

### 10. 524M

| Part Name   | Part Code  | Description               | Q'ty | Location                                                                                                                                        | Part Name              | Part Code  | Description               | Q'ty | Location                                                                                        |
|-------------|------------|---------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|---------------------------|------|-------------------------------------------------------------------------------------------------|
| AM RF UNIT  | 5LR0000826 | RBW07VB-K5020             | 1    | L101                                                                                                                                            | C ELECTRO              | CEXF1C221V | 16V RSS 220MF (8X11.5) TP | 5    | CE507 CE511 CE512 CE513 CE517                                                                   |
| ANT AM LOOP | 9CD6810200 | LOOP-7                    | 1    | 90                                                                                                                                              | C ELECTRO              | CEXF1C470V | 16V RSS 47MF (5X11) TP    | 11   | CE001 CE203 CE601 CE602 CE605<br>CE608 CE611 CE612 CE620 CE621<br>CE622                         |
| ANTENNA FM  | 9736806000 | 2M T-ANT                  | 1    | 80                                                                                                                                              | C ELECTRO              | CEXF1E101V | 25V RSS 100MF (6.3X11) TP | 12   | CE201 CE214 CE251 CE417 CE506<br>CE508 CE509 CE510 CE514 CE516<br>CE524 CE706                   |
| C CERA      | CCXB1H101K | 50V B 100PF K (TAPPING)   | 1    | CC203                                                                                                                                           | C ELECTRO              | CEXF1E221V | 25V RSS 220MF (8X11.5) TP | 2    | CE102 CE213                                                                                     |
| C CERA      | CCXB1H102K | 50V B 1000PF K (TAPPING)  | 6    | CC001 CC253 CC254 CC601 CC602<br>CC607                                                                                                          | C ELECTRO              | CEXF1E470V | 25V RSS 47MF (5X11) TP    | 2    | CE518 CE523                                                                                     |
| C CERA      | CCXB1H152K | 50V B 1500PF K (TAPPING)  | 2    | CC603 CC604                                                                                                                                     | C ELECTRO              | CEXF1H100V | 50V RSS 10MF (5X11) TP    | 10   | CE206 CE418 CE501 CE504 CE603<br>CE604 CE618 CE619 CE708 CE804                                  |
| C CERA      | CCXB1H221K | 50V B 220PF K (TAPPING)   | 2    | CC708 CC710                                                                                                                                     | C ELECTRO              | CEXF1H109V | 50V RSS 1MF (5X11) TP     | 15   | CE205 CE207 CE208 CE209 CE210<br>CE211 CE613 CE614 CE615 CE616<br>CE702 CE801 CE802 CE803 CE805 |
| C CERA      | CCXB1H272K | 50V B 2700PF K (TAPPING)  | 2    | CC801 CC802                                                                                                                                     | C ELECTRO              | CEXF1H220V | 50V RSS 22MF (5X11) TP    | 2    | CE204 CE607                                                                                     |
| C CERA      | CCXB1H331K | 50V B 330PF K (TAPPING)   | 1    | CC270                                                                                                                                           | C ELECTRO              | CEXF1H228V | 50V RSS 0.22MF (5X11) TP  | 1    | CE212                                                                                           |
| C CERA      | CCXB1H472K | 50V B 4700PF K (TAPPING)  | 1    | CC213                                                                                                                                           | C ELECTRO              | CEXF1H229V | 50V RSS 2.2MF (5X11) TP   | 14   | CE101 CE411 CE412 CE413 CE414<br>CE415 CE416 CE606 CE704 CE707<br>CE904 CE905 CE906 CE907       |
| C CERA      | CCXB1H561K | 50V B 560PF K (TAPPING)   | 2    | CC210 CC211                                                                                                                                     | C ELECTRO              | CEXF1H339V | 50V RSS 3.3MF (5X11) TP   | 4    | CE202 CE273 CE609 CE610                                                                         |
| C CERA      | CCXB1H682K | 50V B 6800PF K (TAPPING)  | 1    | CC204                                                                                                                                           | C ELECTRO              | CEXF1H470V | 50V RSS 47MF (6.3X11) TP  | 6    | CE272 CE617 CE911 CE913 CE914<br>CE915                                                          |
| C CERA      | CCXF1H103Z | 50V F 0.01MF Z (TAPPING)  | 21   | CC002 CC004 CC102 CC201 CC205<br>CC206 CC207 CC209 CC251 CC252<br>CC257 CC275 CC501 CC502 CC503<br>CC507 CC515 CC521 CC529 CC535<br>CC536       | C ELECTRO              | CEXF1H478V | 50V RSS 0.47MF (5X11) TP  | 11   | CE401 CE402 CE403 CE404 CE405<br>CE406 CE407 CE408 CE502 CE503<br>CE505                         |
| C CERA      | CCXF1H104Z | 50V F 0.1MF Z             | 22   | CC005 CC006 CC101 CC202 CC403<br>CC504 CC505 CC506 CC511 CC512<br>CC513 CC526 CC527 CC537 CC544<br>CC701 CC704 CC706 CC709 CC711<br>CC717 CC926 | C ELECTRO              | CEXF1H479V | 50V RSS 4.7MF (5X11) TP   | 4    | CE519 CE520 CE521 CE522                                                                         |
| C CERA      | CCXF1H223Z | 50V F 0.022MF Z (TAPPING) | 22   | CC404 CC702 CC703 CC707 CC716<br>CC718 CC825 CC911 CC912 CC913<br>CC914 CC915 CC916 CC917 CC918<br>CC919 CC920 CC921 CC922 CC923<br>CC924 CC925 | C ELECTRO              | CEXF1V102V | 35V RSS 1000MF (13X25) TP | 1    | CE903                                                                                           |
| C CERA      | CCXF1H473Z | 50V F 0.047MF Z (TAPPING) | 5    | CC103 CC212 CC509 CC522 CC528                                                                                                                   | C ELECTRO              | CEXF1V222V | 35V RSS 2200MF 16X31.5    | 2    | CE901 CE902                                                                                     |
| C CERA      | CCZB1E102K | 25V B 1000PF K (AXIAL)    | 3    | CC520 CC533 CC534                                                                                                                               | C MYLAR                | CMXM1H102J | 50V 0.001MF J (TP)        | 6    | CM601 CM602 CM605 CM606 CM607<br>CM608                                                          |
| C CERA      | CCZB1E151K | 25V B 150PF K (AXIAL)     | 2    | CC531 CC532                                                                                                                                     | C MYLAR                | CMXM1H103J | 50V 0.01MF J (TP)         | 4    | CM202 CM203 CM204 CM205                                                                         |
| C CERA      | CCZB1E152K | 25V B 1500PF K (AXIAL)    | 1    | CC523                                                                                                                                           | C MYLAR                | CMXM1H104J | 50V 0.1MF J               | 6    | CM405 CM406 CM407 CM408 CM801<br>CM802                                                          |
| C CERA      | CCZB1E222K | 25V B 2200PF K (AXIAL)    | 2    | CC510 CC516                                                                                                                                     | C MYLAR                | CMXM1H122J | 50V 0.0012MF J            | 2    | CM505 CM506                                                                                     |
| C CERA      | CCZB1E391K | 25V B 390PF K (AXIAL)     | 1    | CC508                                                                                                                                           | C MYLAR                | CMXM1H152J | 50V 1500PF J              | 2    | CM615 CM616                                                                                     |
| C CERA      | CCZB1E472K | 25V B 4700PF K (AXIAL)    | 3    | CC518 CC542 CC543                                                                                                                               | C MYLAR                | CMXM1H153J | 50V 0.015MF J (TP)        | 2    | CM201 CM613                                                                                     |
| C CERA      | CCZB1E682K | 25V B 6800PF K (AXIAL)    | 1    | CC514                                                                                                                                           | C MYLAR                | CMXM1H183J | 50V 0.018MF J             | 3    | CM503 CM603 CM604                                                                               |
| C CERA      | CXCH1H101J | 50V CH 100PF J (TAPPING)  | 5    | CC401 CC402 CC405 CC406 CC563                                                                                                                   | C MYLAR                | CMXM1H223J | 50V 0.022MF J             | 1    | CM611                                                                                           |
| C CERA      | CXCH1H120J | 50V CH 12PF J (TAPPING)   | 1    | CC104                                                                                                                                           | C MYLAR                | CMXM1H272J | 50V 2700PF J              | 1    | CM614                                                                                           |
| C CERA      | CXCH1H150J | 50V CH 15PF J (TAPPING)   | 1    | CC712                                                                                                                                           | C MYLAR                | CMXM1H332J | 50V 3300 PF J             | 1    | CM612                                                                                           |
| C CERA      | CXCH1H180J | 50V CH 18PF J (TAPPING)   | 1    | CC713                                                                                                                                           | C MYLAR                | CMXM1H333J | 50V 0.033MF J (TP)        | 2    | CM501 CM504                                                                                     |
| C CERA      | CXCH1H330J | 50V CH 33PF J (TAPPING)   | 5    | CC255 CC256 CC705 CC714 CC715                                                                                                                   | C MYLAR                | CMXM1H393J | 50V 0.039MF J             | 2    | CM609 CM610                                                                                     |
| C CERA      | CXCH1H331J | 50V CH 330PF J (TAPPING)  | 2    | CC605 CC606                                                                                                                                     | C MYLAR                | CMXM1H473J | 50V 0.047MF J             | 2    | CM804 CM805                                                                                     |
| C CERA      | CXCH1H470J | 50V CH 47PF J (TAPPING)   | 1    | CC277                                                                                                                                           | C MYLAR                | CMXM1H562J | 50V 5600 PF J             | 4    | CM206 CM207 CM409 CM410                                                                         |
| C CERA      | CXCH1H820J | 50V CH 82PF J (TAPPING)   | 1    | CC276                                                                                                                                           | C MYLAR                | CMXM1H683J | 50V 0.068 MF J            | 1    | CM502                                                                                           |
| C CERA      | CZCH1E609K | CH 25V 6PF K AXIAL        | 1    | CC519                                                                                                                                           | CLIP FUSE              | 9734600700 | FC-5N                     | 2    | FC903 FC904                                                                                     |
| C CERA      | CZCH1E809K | CH 25V 8PF K AXL 52MM     | 1    | CC517                                                                                                                                           | COIL BIAS OSC          | 5L0503K643 | SM-10F 5.04MH             | 1    | L601                                                                                            |
| C CERA      | CZCH1H270J | CH 50V 27PF J AXL 52MM    | 2    | CC524 CC525                                                                                                                                     | COIL CHOKE             | 5LC682K822 | 6.8MH                     | 2    | L204 L205                                                                                       |
| C ELECTRO   | CEXE1C102A | 16V RS 1000MF 13X20       | 1    | CE515                                                                                                                                           | COIL DESCRIMI-<br>NATO | 5107FBK473 | 7X7 BLK KSZ-73S           | 1    | L203                                                                                            |
| C ELECTRO   | CEXF1A102V | 10V RSS 1000MF (10X16) TP | 1    | CE705                                                                                                                                           |                        |            |                           |      |                                                                                                 |



