

TRANSCEIVER ADJUSTMENTS/TUNE-UP PROCEDURE

There are no user accessible adjustments or tuning in this portable cellular transceiver. All necessary adjustments and tuning are performed during manufacture of the product. Any adjustments or tuning after service or repair are done as part of that process, as special equipment is required to perform such adjustments.

PARTS LIST

| Reference Symbol | Part Number | Description |
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| | 57.G6421.001 | CASE ASSY 56F18 |
| | 55.G6401.001 | PCBA M/B 56F18 |
| | 45.10101.041 | LABEL (B) SERIAL ART 32*5 ALL |
| | 55.G6401.M01 | PCBA M/B SMD 56F18 |
| ANT1 | 20.M0007.012 | CONN ANTENNA 3*5.1*4.9 POST |
| JP1 | 21.N0039.022 | CONN SMD BATT 3P BE-CU 56F16 |
| J1 | 22.10280.011 | SKT JACK PWR 4P ACON/PJK15 |
| J3 | 22.13013.002 | SKT JACK AUDIO D2.6 5PST 56F16 |
| U2 | 22.1D008.011 | SKT SMD SIM 2R6P H1.9 ACT/217 |
| U13 | 23.60026.012 | BUZZER 3.6VMB-TR8540UT3S 56F16 |
| | 40.G0717.001 | LBL BARCODE 25*14 WHITE 56D2K |
| | 48.G6401.S04 | PCB M/B F:V4 56F18 COMPEQ B |
| | 60.G4902.001 | ASSY RF SHIELD CASE 56F16 |
| | 60.G4903.001 | ASSY BB SHIELD CASE 56F16 |
| R73,R74 | 63.10034.1D1 | CHIP RES 10 J 1/16W 0402 |
| R11 | 63.10134.1D1 | CHIP RES 100 J 1/16W 0402 |
| R14,R18,R27,R43,R44,R45,R47,R50, R51,R61,R72 | 63.10234.1D1 | CHIP RES 1K J 1/16W 0402 |
| R26,R70 | 63.10334.1D1 | CHIP RES 10K J 1/16W 0402 |
| R32,R82 | 63.10434.1D1 | CHIP RES 100K J 1/16W 0402 |
| R23 | 63.12434.1D1 | CHIP RES 120K J 1/16W 0402 |
| R90,R91 | 63.20031.161 | CHIP RES 20 J 1/8W 0805 |
| R34,R606,R88,R89 | 63.20234.1D1 | CHIP RES 2K J 1/16W 0402 |
| R7, R13,R95 | 63.20334.1D1 | CHIP RES 20K J 1/16W 0402 |
| R35 | 63.22031.161 | CHIP RES 22 J 1/8W 0805 |
| R4 | 63.22034.1D1 | CHIP RES 22 J 1/16W 0402 |
| R627 | 63.22134.1D1 | CHIP RES 220 J 1/16W 0402 |
| R608 | 63.22334.1D1 | CHIP RES 22K J 1/16W 0402 |
| R62 | 63.24334.1D1 | CHIP RES 24K J 1/16W 0402 |
| R59 | 63.27134.1D1 | CHIP RES 270 J 1/16W 0402 |
| R46,R60,R86 | 63.27234.1D1 | CHIP ES 2.7K J 1/16W 0402 |
| R49,R84 | 63.36033.151 | CHIP RES 36 J 1/10W 0603 |
| R617 | 63.39134.1D1 | CHIP RES 390 J 1/16W 0402 |
| R38 | 63.39234.1D1 | CHIP RES 3.9K J 1/16W 0402 |
| R613 | 63.39334.1D1 | CHIP RES 39K J 1/16W 0402 |
| R8 | 63.3R334.1D1 | CHIP RES 3.3 J 1/16W 0402 |
| R1,R29,R36,R65 | 63.47334.1D1 | CHIP RES 47K J 1/16W 0402 |
| R628 | 63.51034.1D1 | CHIP RES 51 J 1/16W 0402 |
| R618,R626 | 63.51134.1D1 | CHIP RES 510 J 1/16W 0402 |
| R41 | 63.51234.1D1 | CHIP RES 5.1K J 1/16W 0402 |
| R39,R40 | 63.68034.1D1 | CHIP RES 68 J 1/16W 0402 |
| L705 | 63.R0031.161 | CHIP RES 0 J 1/8W 0805 |
| L2, R20 | 63.R0034.151 | CHIP RES 0 J 1/16W 0603 |
| R15,R16,R17,R19,R2,R22,R25,R28,R 33,R48,R54,R56,R60,R602,R603,R60 | 63.R0034.1D1 | CHIP RES 0 J 1/16W 0402 |

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| 4,R61,R612,R614,R624,R625,R701,R85,R96 | | |
| R6,R9,R21 | 64.22035.6D1 | CHIP RES 220K F 1/16W 0402 |
| R66 | 64.36015.6D1 | CHIP RES 3.6K F 1/16W 0402 |
| R67 | 64.51015.161 | CHIP RES 5.1K F 1/8W 0805 |
| R605 | 64.56015.6D1 | CHIP RES 5.6K F 1/16W 0402 |
| R5 | 64.68025.6D1 | CHIP RES 68K F 1/16W 0402 |
| R24 | 64.R2005.461 | CHIP RES 0.2 F 1/4 W 0805 |
| X2 | 65.G0101.004 | SUB ASSY CONNECTOR MIC WHITE |
| RN5 | 66.10036.L87 | CHIP NTW 10 J8P 2.0*1.0 CYNTEC |
| R615 | 66.10236.087 | CHIP NTW 1K J 8P 2.0*1.0 |
| RN1,RN4 | 66.10436.087 | CHIP NTW 100K J8P I 2.0*1.0*.4 |
| RN2 | 66.10436.L87 | CHIP NTW 100K J8P I 2.0*1 CYNT |
| RN3 | 66.22236.048 | CHIP NTW 2.2K J 4P 0404 |
| RN6 | 66.47336.087 | CHIP NTW 47K J 8P 2.0*1.0*0.4 |
| R702,R703 | 67.40001.031 | CHIP ATTENUATOR 3DB EXB24ATAA |
| L603 | 68.1503N.1R1 | CHIP IND 15NH J 0402 |
| L605 | 68.1813N.2HA | CHIP COIL 180NH J 0603CS WIND |
| C710,L703,L704 | 68.1R08N.1R1 | CHIP IND 1NH +-0.3NH 0402 |
| C711 | 68.1R58N.1R1 | CHIP IND 1.5NH +-0.3NH 0402 |
| C643 | 68.2203N.1R1 | CHIP IND 22NH J 1.0*0.5*0.5 |
| C639 | 68.2703N.1R1 | CHIP IND 27NH J 1.0*0.5*0.5 |
| R37 | 68.2R28N.1R1 | CHIP IND 2.2NH +-0.3NH 0402 |
| L602 | 68.2R78N.1R1 | CHIP IND 2.7NH +-0.3NH 0402 |
| L601 | 68.8203N.1D1 | CHIP IND 82NH J 0603 |
| L701,L702 | 68.8R23N.1R1 | CHIP IND 8.2NH J 1.0*0.5*0.5 |
| U9,U14 | 69.10074.001 | FILTER EMI EMIF01-10005W5SOT32 |
| U604 | 69.10078.041 | FILTER SAW 1960MHZ LF55F |
| U605 | 69.10085.051 | FILTER SAW 881.5MHZ 856241 |
| F1 | 69.41004.001 | CHIP FUSE 1A 24V F0603 1608FF |
| F2 | 69.4R200.001 | CHIP FUSE 0.2A 30V FCC1020122P |
| SW | 69.50017.001 | SW RF ANTENNA MS-147 HIROSE |
| TR1 | 69.60009.001 | THERM SMD 10K NTC 0402 NTH5G |
| T11,T12,T13,T16,T17,T2, T3, T4, T6, T7, T9 | 69.80011.011 | TVS 6.5V150P 0603 TVM1A090KAR |
| T14,T15 | 69.80013.001 | TVS 18V10P 0603 TVM1A220KCR |
| U3 | 71.03012.A0U | IC INTF TWL3012BGGM BGA100 |
| U1 | 71.41529.00U | IC ASIC XF741529AGHH BGA 179B |
| U5 | 72.00160.03U | IC FLASH M28W160CB TFBGA46 |
| U16 | 74.00061.BBY | IC DETECTOR XC61CC4402 SSOT-24 |
| U11 | 74.01734.07B | IC BATT CHARGE LTC1734 SOT23 6 |
| U18 | 74.02902.0BY | IC DETECTOR XC61CC2902 SSOT-24 |
| U8, U10 | 74.03157.090 | IC ANALOG SW NC7SB3157MICROPAD |
| U702 | 74.043AA.B30 | IC SWITCHPLEXER LMSP43AA-218 |
| U705,U706 | 74.09124.03B | IC VR MAS9124AST2-T SOT-23 5 |
| U601 | 74.74963.0FL | IC RF XCVR SKY74963 RFLGA56 |
| U701 | 74.77315.0K0 | IC PWR AMP CX77315 8*10*1.5 16 |
| U704 | 74.7WZ16.0MY | IC DUAL BUFFER NC7WZ16 SC70-6P |
| C649 | 77.73R93.0C0 | CHIP CAP PPS 3.9NF 16V J0805M |

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| C614 | 77.78R23.010 | CHIP CAP PPS 8.2NF 16V J0805L |
| C644,L604 | 78.10034.1F1 | CHIP CAP C 10P 50V J0402 NPO |
| C627,C66,C703,C715,C718,C736,C80 | 78.10061.1F1 | CHIP CAP C 10P 16V D0402 NPO |
| C39,C62,C713 | 78.10131.1F1 | CHIP CAP C 100P 16V J0402 NPO |
| C607,C624 | 78.10224.2F1 | CHIP CAP C 1000P 50V K0402 X7R |
| C623,C731,C733 | 78.10321.2F1 | CHIP CAP C 0.01U 16V K0402 X7R |
| C11,C12,C13,C24,C609,C626,C628,C631 | 78.10491.4F1 | CHIP CAP C 0.1U 16V Z0402 Y5V |
| C5, C6 | 78.10492.4B1 | CHIP CAP C 0.1U 25V Z0603 Y5V |
| C610 | 78.10520.5B1 | CHIP CAP C 1U 6.3V K0603 X5R |
| C34 | 78.10523.211 | CHIP CAP C 1U 10V K0805 X7R |
| C18,C32,C61,C73 | 78.10591.4B1 | CHIP CAP C 1U 16V Z0603 Y5V |
| C17,C20,C21,C23,C60,C63,C72,C729,C730,C732 | 78.10693.411 | CHIP CAP C 10U 10V Z0805 Y5V |
| C1 | 78.15031.1F1 | CHIP CAP C 15P 16V J0402 NPO |
| C40,C41 | 78.15131.1F1 | CHIP CAP C 150P 16V J0402 NPO |
| C22 | 78.18031.1F1 | CHIP CAP C 18P 16V J0402 NPO |
| C4 | 78.18131.1F1 | CHIP CAP C 180P 16V J0402 NPO |
| C638 C642 C709 C712 | 78.1R071.1F1 | CHIP CAP C 1P 16V C0402 NPO |
| C48,C58,C59,C603,C605,C606,C615,C629,C633,C634,C640,C645,C707,C717 | 78.22031.1F1 | CHIP CAP C 22P 16V J0402 NPO |
| C611 | 78.22131.1F1 | CHIP CAP C 220P 16V J0402 NPO |
| C38 | 78.22324.2B1 | CHIP CAP C .022U 50V K0603 X7R |
| C8 | 78.22491.4B1 | CHIP CAP C 0.22U 16V Z0603 Y5V |
| C14 | 78.22493.4F1 | CHIP CAP C 0.22U 10V Z0402 Y5V |
| C33 | 78.22513.211 | CHIP CAP C 2.2U 10V M0805 X7R |
| C15,C19 | 78.22591.411 | CHIP CAP C 2.2U 16V Z0805 Y5V |
| C701,C708,C716,C79 | 78.33031.1F1 | CHIP CAP C 33P 16V J0402 NPO |
| C635,C636 | 78.33131.1F1 | CHIP CAP C 330P 16V J0402 NPO |
| C50,C51,C648,C650 | 78.39031.1F1 | CHIP CAP C 39P 16V J0402 NPO |
| C706 | 78.3R374.1FM | CHIP CAP C 3.3P50V C0402NPO MU |
| C3,C630,C632 | 78.47121.2F1 | CHIP CAP C 470P 16V K0402 X7R |
| C44,C45 | 78.47392.4B1 | CHIP CAP C 0.047U25V Z0603 Y5V |
| C56,C714,C737,C738,C740 | 78.47510.5B1 | CHIP CAP C 4.7U6.3V M 0603 X5R |
| C37,C43 | 78.47593.411 | CHIP CAP C 4.7U 10V Z0805 Y5V |
| C65,C67 | 78.4R771.1F1 | CHIP CAP C 4.7P 16V C0402 NPO |
| C2 | 78.68031.1F1 | CHIP CAP C 68P 16V J0402 NPO |
| C613 | 78.68121.2F1 | CHIP CAP C 680P 16V K0402 X7R |
| U4 | 80.47616.C21 | CHIP CAP OXI NOJ 47UF 4V M3528 |
| X1 | 82.30001.F71 | XTAL32.768K12.5PF20PPM SSP-T6 |
| U603 | 82.30026.D01 | XTAL 26MHZ 10PF 8PPM NX5032SA |
| D20 | 83.00222.101 | DIODE ARR DAN222 EM3 |
| DZ2,DZ3 | 83.00284.C10 | DIODE VR BZX284-B5V6 SOD110 |
| D19,D21 | 83.00516.010 | DIODE SW BAS516 75V SC79 |
| D11,D12,D13,D17,D18,D2 | 83.00520.080 | DIODE SB RB520S-30 EMD2 |
| D5,D6,D7,D8,D9,D10 | 83.01921.070 | LED 1.6*0.8 Y/G WA/CL 19-21SYG |
| D3,D4 | 83.02221.070 | LED 2.7*1.2*1.3 22-21SYGC/S135 |
| DZ1 | 83.6R205.03F | DIODE ZEN 6.06-6.33V 200MW UMD |

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| U7,U21 | 84.00010.A1F | XTOR PUMH10 47K SC88 NPN |
| U19 | 84.00011.010 | XTOR PUMH11 SC88 6P NPN |
| U20 | 84.00143.01P | XTOR DTA143ZET1 SC-75 PNP |
| BQ2,BQ5 | 84.00807.A1K | XTOR BC807-40W SOT-323 PNP |
| BQ3,BQ4 | 84.00817.01K | XTOR BC817-40W SOT-323 NPN |
| U6 | 84.06303.03K | FET MOS FDG6303N NC SC70-6 |
| U12 | 84.06506.030 | FET MOS FDC6506P PC SOT-6 |
| BQ6 | 84.09435.02B | XTOR MMJT9435 SOT-223 PNP |
| | DC.G6421.001 | DUMMY CASE 56F18 |
| | 23.42021.001 | MIC 58DB 2.2K WY-64MNU139 |
| | 23.45003.011 | RECEIVER DYNAMIC C300 13*3 LT |
| | 23.46009.002 | VIBRATOR KHN4NZ1AL 1.3V 56F16 |
| | 33.G4901.002 | FRAME LCD SUS 56F16 |
| | 34.G4905.001 | MEMBRANE DIAL PAD 56F16 |
| | 39.G4902.032 | ANTENNA COVER--SILVER 56F16 |
| | 40.G0808.001 | LABEL WARRANTY 56D80 AQUARIUS |
| | 40.G4904.001 | MYLAR SIM 56F16 |
| | 42.G4903.003 | LCD COVER-W 56F16 |
| | 47.G4901.001 | MIC. CAP 56F16 |
| | 47.G4904.004 | KEYPAD ENG. 56F16 |
| | 56.07G49.011 | LCD MODULE WD-G0906VI-6WNNB V0 |
| | 60.G4904.034 | ASSY CASE UPPER -SILVER |
| | 60.G4905.014 | ASSY SKELETON LOWER-RIO |
| | 60.G4906.003 | ASSY SKELETON UPPER |
| | 86.00T00.2P1 | SCRW MACH CH M1.6*6L SUS 56F16 |
| | DP.G6421.001 | DUMMY PACKING 56F18 |
| | 39.G4903.031 | COVER BATTERY SILVER 56F16 |
| | 60.G4901.003 | ASSY ESG BATT LIION700MA W/O |