

**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
	10-36000-03	ASS'Y-DOME SWITCH / V810
	10-36000-04	ASS'Y-DOME SIDE KEY / V810
	50-00612-01	Mic(Solderless) / OB210-44S1033
	54-26000-12	STICKER INDICATOR(Φ4) / ARIA
	54-16000-17	17 LABEL BSN / ARMSTRONG
	93-03624-01	UNDER FILL BOND / LPD-3513
	01-36051-51	SMD MAIN PCB ASS'Y / TTC DBTM(V810)
R203	06-00026-01	RES 000 5% / MCR01MZS000J/RC1005J000CS
R17, 19, 27	06-01026-01	RES 10 5% / MCR01MZS 100J/RC1005J100CS
R4	06-02426-01	RES 24 5% / MCR01MZS 240J
R300, 304	06-03326-01	RES(1005) 33 Ohm 5% MCR01MZS330J/RC1005J330CS
R5	06-03926-01	RES 39 5% / MCR01MZS 390J
R308	06-04726-01	RES 47 5% / MCR01MZS 470J
R18, 22, 23	06-05126-01	RES 51 5% / MCR01MZS 510J/RC1005J510CS
R236	06-06826-01	RES 68 5% / MCR01MZS 680J
R234, 239, 241, 326, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 238, 240, 242, 235	06-11026-01	RES 100 5% / MCR01MZS 101J/RC1005J101CS
R313	06-13326-01	RES 330 5% / MCR01MZS 331J
R20, 21	06-16826-01	RES 680 5% / MCR01MZS 681J
R12, 16, 25, 32, 225, 226, 230, 231	06-21026-01	RES 1K 5% / MCR01MZS 102J/RC1005J102CS
R301	06-21526-01	RES 1.5K 5% / MCR01MZS 152J/RC1005J152CS
R33	06-21826-01	RES 1.8K 5% / MCR01MZS 182J
R30, 217, 220, 246	06-22226-01	RES 2.2K 5% / MCR01MZS 222J/RC1005J222CS
R204, 233, 219	06-23326-01	RES 3.3K 5% / MCR01MZS 332J/RC1005J332CS
R35	06-23926-01	RES 3.9K 5% / MCR01MZS 392J
R29, 315	06-24726-01	RES 4.7K 5% / MCR01MZS 472J
R10, 11, 13	06-25725-02	RES 5.76K 1% / MCR01MZPF 5761
R306	06-29125-01	RES 9.1K 1% / MCR01MZSF9101
R318	06-31025-01	RES 10K 1% / MCR01MZS 103F / RC1005F103CS
R312, 322, 323, 324, 325, 340, 342, 344, 174	06-31026-01	RES 10K 5% / MCR01MZS 103J/RC1005J103CS
R14, 36	06-31125-02	RES(1005) 11.3K 1% / MCR01MZPF1132
R171	06-32026-01	RES 20K 5% / MCR01MZS 203J/RC1005J203CS
R201, 215	06-32726-01	RES 27K 5% / MCR01MZS 273J/RC1005J273CS
R302	06-32725-01	RES 27K 1% / RES(1005) 27K 1% / MCR01MZS2702F
R200	06-33326-01	RES 33K 5% / MCR01MZS 333J/RC1005J333CS
R28, 34, 37, 345	06-34726-01	RES 47K 5% / MCR01MZS 473J/RC1005J473CS
R214	06-35625-01	RES 56K 1% / MCR01MZS 563F/RC1005F563CS
R202, 172, 305, 307	06-41026-01	RES 100K 5% / MCR01MZS 104J/RC1005J104CS
R347	06-41526-01	RES 150K 5% / MCR01MZS 154J
R205, 211	06-41826-01	RES 180K 5% / MCR01MZS 184J/RC1005J184CS
R218	06-43025-01	RES(1005) 300K Ohm 1% / MCR01MZS304F/RC1005F304CS
R208	06-45126-01	RES 510K 5% / MCR01MZS 514J/RC1005J514CS
R314, 346	06-00035-02	RES 0.3 Ohm(1608) 1% / ERJ3RQFR30V

C67, 79, 80, 54, 107	21-00122-01	CAP 1P +/-0.25 P / C1005CH1H010C
C66	21-00122-02	CAP 1.5P +/-0.25 P / C1005CH1H015C
C47, 53, 96, 97, 98	21-00222-01	CAP 2P +/-0.25 P / C1005CH1H020C/CL05C020CBNC
C78	21-00322-01	CAP 3P +/-0.25P / C1005CH1H030C/CL05C030CBNC
C16, 21, 24, 29	21-00422-01	CAP 4P +/-0.25 P / C1005CH1H040C
C110	21-00522-01	CAP 5P +/-0.25P / C1005CH1H050C
C9	21-00923-01	CAP 9P +/-0.5 P / C1005CH1H090D/CL05C090DBNC
C242, 245, 311, 312	21-01826-01	CAP 18P 5% / C1005CH1H180J
C268	21-02726-01	CAP 27P 5% / C1005CH1H270J
C246	21-03326-01	CAP 33P 5% / C1005CH1H330J/CL05C330JBN
C270	21-03926-01	CAP 39P 5% / C1005CH1H390J/CL05C390JBNC
C256, 257, 275	21-04726-01	CAP 47P 5% / C1005CH1H470J
C222	21-05626-01	CAP 56P 5% / C1005CH1H560J/CL05C561JBNC
C265, 264, 269, 266, 267, 272, 286, 350	21-08226-01	CAP 82P 5% / C1005CH1H820J
C203, 239, 240, 241	21-11026-01	CAP 100P 5% / C1005CH1H101J/CL05C101JBNC
C84, 86	21-12026-01	CAP 200P 5% / MCH155A201JK
C93	21-12227-01	CAP 220P 10% / C1005H1H221K
C71	21-13327-01	CAP 330P 10% / C1005JB1H 331K
C202	21-14727-01	CAP 470P 10% / C1005CH1H471K
C204, 232	21-21027-01	CAP 1000P 10% / C1005JB1H102K/CL05B102KBNC
C83	21-22227-01	CAP 2200P 10% / C1005JB1H222K
C321	21-24727-01	CAP 4700P 10% / C1005JB1H472K
C88	21-25627-01	CAP 5600P 10% / C1005JB1H562K
C200, 201, 253,	21-31027-01	CAP 0.01u 10% / C1005JB1C103K/CL05B103KONC
C229, 230, 231, 234	21-32227-01	CAP 0.022U 10% / C1005JB1C223K/CL05B223KONC
C40, 211, 212, 213, 273, 252, 345, 346, 153, 155	21-41028-01	CAP 0.1UF +80/-20% / C1005JF1C104Z/CL05F104ZONC
C56, 347, 280, 90	21-00428-01	CAP(1005) 0.47UF 10V +80/-20% / GRM36Y5V474Z10
C251	21-40638-01	CAP 0.68u 6.3V +80%/-20% /GRM36Y5V684Z
C226, 314, 325, 326	21-51028-02	CAP 1UF +80/-20% / C1005Y5V0J105ZT
C85	21-36837-01	CAP 0.068uF(1608) 16V 10% / GRM39X7R683K
C87	21-38238-02	CAP 0.082UF(1608) +80/-20 / C1608X7R1H823KT
C209, 210	21-51038-01	CAP 1UF(1608) +80/-20% / C1608JF1C 105Z/CL10F105ZONC
C72, 94, 276, 340	21-02238-01	CAP 2.2uF(1608) +80/-20% / C1608Y5V1A225Z
C328, 329	21-52247-03	CAP 2.2uF(2012) +80/-20% /GRM21BF51A225ZA01L
C75, 330, 331	21-04747-02	CAP 4.7UF(2012) +/- 10% / C2012JF1A475Z
C63, 327, 322	21-61048-03	CAP 10u(2012) 10V / C2012Y5V1A106Z
C237, 308, 335	21-62258-03	CAP(3216) 22U 10V / GJ231MF51A226ZD01L
C309	21-64768-01	CAP(3225) 47uF 10V +80/-20% / GJ232CF51A476Z01L
C225	21-41037-01	CAP(1608) 0.1uF 16V +/- 10% / C1608JB1C104K/CL10B104KONC
C278	21-52238-01	TANTAL(1608) 2.2U 10V M / TMCJ1A225MTR/TEESVJ1A225M8R
C141	21-61008-01	TANTAL 10UF 6.3V M / TA-6R3TCML100M-PR/TMCP0J106MTR
BF200, 202	24-11206-04	IND BEAD 120(OHM) / HB-1M1005-121JT
BF201	24-00339-01	IND BEAD(1608) 30 (Ohm) / HB1H1608-300JT
L22	24-00102-01	IND 1NH +/-0.3NH / LL1005-FH1N0S
L7	24-00102-02	IND 1.2NH +/-0.3NH / LL1005-FH1N2S
L11, 13	24-00202-01	IND 2.2NH +/-0.3NH / LL1005-FH2N2S

L16, 125	24-00202-02	IND 2.7NH +/-0.3NH / LL1005-FH2N7S
L24	24-00302-01	IND 3.3NH +/-0.3NH / LL1005-FH3N3S
L10, 15	24-00302-02	IND 3.9NH +/-0.3NH/ LL1005-FH3N9S
L6, 120, 121, 127, 101	24-00402-01	IND 4.7NH +/-0.3NH / LL1005-FH4N7S
L23	24-00502-01	IND 5.6NH +/-0.3NH / LL1005-FH5N6S
L12	24-00606-01	IND 6.8NH 5% / LL1005-FH6N8J
L3, 5	24-00806-02	IND 8.2NH 5% / LL1005-FH8N2J
L9	24-01006-02	IND 10NH 5% / LL1005-FH10NJ
L110	24-01206-02	IND 12NH 5% / LL1005-FH12NJ
L14	24-01806-02	IND 18NH 5% / LL1005-FH18NJ
L1, 2, 17, 18	24-03306-01	IND 33NH 5% / LL1005-FH33NJ
L4, 8, 300	24-08206-05	IND 82NH 5% / LL1005-FH82NJ
L128, L19	24-11026-01	IND 100nH / LL1005-FHR10J
SW100	40-04042-01	HIGH POWER SWITCH(2.5V) / GN04042NOL
IC108	40-17992-01	BAND SELECTION SWITCH(SPDT) / AS179-92
IC105, 109	48-00006-03	TR / EMD6
Q200	48-00114-01	TR / DTA114EM
Q100	48-00115-05	TR / DTC115EMA
Q303	48-23220-01	TR / ZXT2M322
Q103	48-32130-01	TR (SSSMINI) / UNR321300L
Q301	48-00123-04	TR / DTC123JMA
Q202	48-01012-01	FET / SI1012X
Q105	48-08515-01	FET / AAT8515
IC306	48-13443-01	FET / SI3443DV
LED200	48-00115-03	LED (CALL_LED) / LNJ115W8PRA
LED300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313	48-00192-01	LED / LTST-C192TBKT / AOT-0603P-B01-V / LNJ914W8BRAW
D100, 101	48-00282-01	DIODE / HSMS282C
D300, 301	48-00715-01	DIODE / RB715FT106
Y301	48-00255-01	FC-255 32.768KHz 9PF / FC-255(Q13F2550000300)
Y200	48-03225-01	CRYSTAL 48MHZ / TSX-3225
TCXO100	48-03043-01	TCXO / MTE3043D 19.2MHZ
VCO100	48-30017-01	VCO(D/C) / MQK300B1G75R6
IC308	51-01141-01	REGULATOR IC / R1141Q331DTR
IC207	51-11602-01	REGULATOR IC / R1160D281B
IC200	51-00762-02	MIDI,MA-3L2(40poly) / YMU762C-QZE2
IC303	51-46101-01	IC / AAT4610AIJS-1-T1
IC100	51-06000-01	IC / RFR6000-40BCCP
IC101	51-06000-02	IC / RFL6000-16BCCP
IC103	51-06100-01	IC / RFT6100-40BCCP
IC304	51-06000-05	IC / PM6000-48BCCP
IC201	51-06050-01	MOBILE STATION MODEM / MSM6050-208FBGA
IC309	51-06783-01	MCP(128M+64M) / TH50VPF6783AASB
IC206	51-07196-01	IC OR GATE / NC7SZ19P6X
IC305	51-01102-01	IC USB / ISP1102W
IC203	51-03157-01	ANALOG MUX IC / NC7SB3157P6X

IC204	51-03212-01	HALL SENSOR IC / A3212ELH
Q201	51-07559-01	COMPARATOR IC / TC75S59FU
IC300	51-08356-01	CE-BUS IC / AT8356C47-ICT2T
IC110	80-06610-01	TEMPERATURE SENSOR / SM6610
IC210	40-00766-02	ANALOG SWITCH(SPST) / NC7SZ66
F204, 205, 200, 201, 202, 203	91-00032-03	EMI FILTER / CSPRC032
IC302	91-00306-01	EMI FILTER / CSPEMI-306
IC301	91-00307-01	EMI FILTER / CSPEMI-307
IC104	51-77105-01	POWER AMP MODULE(CELLULAR) / CX77105
IC107	51-77107-01	POWER AMP MODULE(US-PCS) / CX77107
DPX100	91-00836-13	SAW DUPLEXER (CELLULAR) / SFX836RN001
DPX101	91-07904-01	DUPLEXER(US-PCS) / HPMD-7904
F105	91-18630-01	TX(PCS) RF SAW FILTER / SAWTF1G86LA3T00R00
F104	91-07748-01	TX RF SAW FILTER(CDMA) / B7748
F103	91-09000-01	RX GPS SAW / B9000
F101	91-07731-01	RX(CELLULAR) SAW FILTER / B7731
F102	91-07736-01	RX PCS SAW FILTER / B7736
CPL100	51-00140-01	DIRECTIONAL COUPLER / LDC18836M14B-322
CPL101	51-15200-01	COUPLER / LDC211G8814B-027
EAR200	09-02018-01	EARPHONE JACK / HSJ2018-019070
CN300	09-44522-01	IO CONN(17PIN) / 44522-0079
CN200	09-40145-01	FPC CONN(40PIN) / AXK740145J
CON301	29-36001-01	SUA-TERMINAL BATTERY / V810
A100	29-18000-02	TERMINAL ANTENNA / APEX
CON100	09-00147-01	RF CONN / MS-147
MIC200	15-32000-04	HOLDER-MIC / GCC R-UIM
CN201	28-36000-01	FPCB-KEY CONN / 6298-4P
SHUT, RECORD	40-00010-01	PUSH SW (SIDE) / LS10N2-T
	84-36000-00	PCB ARRAY MAIN / PCC DBTM(1.0)
	07-36000-03	CASE-SHIELD 1 / V810
	07-36000-04	CASE-SHIELD 2 / V810
	07-36000-05	CASE-SHIELD 3 / V810
	07-36000-06	CASE-SHIELD 4 / V810
	07-36000-07	CASE-SHIELD 5 / V810
	70-07648-02	CAMERA-TTC DBTM(V810) / OV7648FSAD
	01-36053-01	LCD PCB ASS'Y / V810
	11-36000-04	ADHESIVE-FLIP FPC / V 810
X-CON402	72-00802-02	LCD-MODULE(MAIN) / LNYG8AT02(128x160)
CON401	72-08096-02	OLED MODEULE(SUB) / RGC080960390W000
	75-27000-02	PAD MAIN LCD 2(34 X 6) / TT R-UIM
	11-27000-01	TAPE-MAIN LCD / TT R-UIM
	11-36000-05	TAPE-INSULATOR / V810
	11-19000-25	TAPE FPC FLIP 2 / TT
	01-36053-50	SMD&MANUAL LCD PCB ASS'Y / V810
MOT400	48-04458-01	MOTOR / LA4-460AB
SPK401 & SPK400	50-01540-04	RECEIVER & MIDI SPEAKER / EMD1540DPB1

	01-36053-51	SMD LCD PCB ASS'Y / V810
R538	06-00026-01	RES 000 5% / MCR01MZS000J/RC1005J000CS
R407	06-00326-01	RES 3.3 5% / MCR01MZS 3R3J/RC1005J3R3CS
R507, 508, 521, 522, 523, 524	06-01826-01	RES 18 5% / MCR01MZS180J
R427, 430	06-02026-01	RES 20 5% / MCR01MZS 200J/RC1005J200CS
R509	06-05126-01	RES 51 5% / MCR01MZS 510J/RC1005J510CS
R533, 534, 535, 536, 537, 532, 529, 531, 528, 530	06-11026-01	RES 100 5% / MCR01MZS 101J/RC1005J101CS
R404	06-22226-01	RES 2.2K 5% / MCR01MZS 222J/RC1005J222CS
R420	06-25626-01	RES 5.6K 5% / MCR01MZS 562J
R500, 501	06-31026-01	RES 10K 5% / MCR01MZS 103J/RC1005J103CS
R433	06-32026-01	RES 20K 5% / MCR01MZS 203J/RC1005J203CS
R517, 437	06-34726-01	RES 47K 5% / MCR01MZS 473J/RC1005J473CS
R432	06-37526-01	RES(1005) 75K Ohm 5% / MCR01MZS753J / RC1005J753CS
R421	06-39126-01	RES(1005) 91K 5% / MCR01MZS913J
R435, 436, 540	06-41025-01	RES 100K 1% / MCR01MZS104F/RC1005F104CS
R506	06-51026-01	RES 1M 5% / MCR01MZS 105J
R434	06-51225-01	RES(1005) 1.2M 1%/MCR01MZS125F / RC1005F125CS
C480, 430, 438	21-00122-01	CAP 1P +/-0.25 P/ C1005CH1H010C
C517, 516, 518, 519, 520, 521, 522, 523, 543, 544, 545, 529	21-01023-01	CAP 10P +/-0.5P / C1005CH1H100D
C505, 507	21-01826-01	CAP 18P 5% / C1005CH1H180J
C460,461,462,463,464,465,466,467,468, 469,470,471,472,473,474,475,476,477,478,479,442,435,436,437,439,440	21-08226-01	CAP 82P 5% / C1005CH1H820J
C538, 539	21-11026-01	CAP 100P 5% / C1005CH1H101J/CL05C101JBNC
C509, 511	21-21027-01	CAP 1000P 10% / C1005JB1H102K/CL05B102KBNC
C406, 530	21-31027-01	CAP 0.01u 10% / C1005JB1C103K/CL05B103KONC
C433, 434	21-34728-01	CAP 0.047U +80/-20% / C1005JF1C 473Z / CL05F473ZONC
C500, 501	21-41028-01	CAP 0.1UF +80/-20% / C1005JF1C104Z/CL05F104ZONC
C415, 451	21-42237-01	CAP(1608) 0.22uF 16V +/-10% / C1608JB1C224K/CL10B224KONC
C513	21-51028-02	CAP 1UF +80/-20% / C1005Y5V0J105ZT(GRP155F50J105ZD02E)
C426, 454, 403, 404, 405, 425, 450, 452, 455, 453	21-51037-03	CAP(1608) 1uF 6.3V 10% / C1608JB0J105KT/CL10B105KQNC
C531, 541, 542	21-54737-01	CAP(1608) 4.7uF +/-10% 6.3V / C1608X5R0J475K
C443	21-52238-01	TANTAL(1608) 2.2U 10V M / TMCJ1A225MTR/TEESVJ1A225M8R
C502, 503, 508	21-61038-03	TANTAL(1608) 10UF 6.3V M / TMCJ0J106MTR/TEESVJ0J106ML8R
BF500	24-11206-03	IND BEAD 120 OHM (1608) / BLM18AG121SN1D
L400, 401	24-61508-01	IND 15UH +/- 20% (1.2T) / 976AS-150M=P5
D400, 402, 403	48-00002-08	DIODE (SCHOTTKY) / CUS02 (TE85L)
D405	48-00015-02	DIODE (ZENER 15V) / 02DZ15-Y (TPH3)
LED500	48-04703-01	Flash LED / CL-470S-3WD-D-T
Q403	48-00006-01	TR / UML6N
Q400	48-00114-01	TR / DTA114EM
Q401	48-01012-01	FET / SI1012X
X500	48-28000-01	XTAL 28.000MHz RESONATOR / TSX-3225 (28.000MHz)
IC402	51-19376-01	IC / LT1937ESC6
IC403	51-01617-01	IC / LT1617ES5-1
IC500	51-00317-02	IC / MV317SNK
IC502	51-03112-01	VOLTAGE DETECTOR / R3112Q251C

IC503	51-01141-07	LDO / R1141Q251DTR
IC504	51-03110-01	IC / AAT3110IJS-5-T1
CON400	09-84014-01	FPC CONN(40PIN) / AXK840145J
CON402	09-83014-01	FPC CONN / AXK830145 (30PIN)
CN500	09-02321-01	CAMERA21PIN CONN / FH23-21S-0.3SHW(05)
case shield	26-33013-01	CASE SHIELD FLIP / TT CAMERA
case shield	26-33000-01	CASE-SHIELD,FLIP2 / TT CAMERA
PCB	84-36053-00	PCB ARRAY LCD / V810