

**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.

## Parts List

Reference Symbol	Part Number	Description
C1011	2113743L33	CHIP 4700 PF 10% X7R
C111	2113743N10	CHIP 2.2 PF +-.25PF COG
C113	2113743N07	CHIP 1.5 PF +-.25PF COG
C117	2113743L41	CHIP 10000 PF 10% X7R
C118	2113743N14	CHIP 3.3 PF +-.25PF COG
C124	2113743N44	CHIP 56.0 PF 5% COG
C2007	2113928N01	CER CHIP 0.1UF 10% 6.3
C206	2113743N16	CHIP 3.9 PF +-.25PF COG
C212	2113928P04	CAP,CER,1UF,,+20%,-20%,,0603
C217	2113928N01	CER CHIP 0.1UF 10% 6.3
C252	2113743N03	CHIP 1.0 PF +-.25PF COG
C271	2113743N09	CHIP 2.0 PF +-.25PF COG
C274	2113743N36	CHIP 27.0 PF 5% COG
C294	2113743N26	CHIP 10.0 PF 5% COG
C296	2113743N18	CHIP 4.7 PF +-.25PF COG
C297	2113743L17	CHIP 1000 PF 10% X7R
C300	2113743N50	CHIP 100 PF 5% COG
C3001	2113743N26	CHIP 10.0 PF 5% COG
C3002	2113743L17	CHIP 1000 PF 10% X7R
C3006	2113743N40	CHIP 39.0 PF 5% COG
C3007	2113928P04	CAP,CER,1UF,,+20%,-20%,,0603
C3011	2113743L41	CHIP 10000 PF 10% X7R
C3018	2113928E03	CERAMIC CHIP 2.2 UF
C3021	2113743A24	CHIP .330 UF 10% 16V
C304	2311049A69	TANT CHIP 10.0 UF 20%6.3V
C312	2113743L33	CHIP 4700 PF 10% X7R
C3800	2113743A31	CHIP 1.0 UF 10% X7R
C3802	2113928C12	CAP,CER,10UF,,+10%,-10%,,0805
C3803	2113947B05	DL ARRAY 33.0PF 50V 0504
C400	2113743N30	CHIP 15.0 PF 5% COG
C4003	2113947H01	DL ARRAY 100,000PF 6.3V 05
C4005	2113947H01	DL ARRAY 100,000PF 6.3V 05
C4007	2311049A89	TANT CHIP 22 UF 4V10%
C4011	2113743L03	CHIP 270 PF 10% X7R
C4014	2113743L01	CHIP 220 PF 10% X7R
C421	2113743N24	CHIP 8.2 PF + -.5PFCOG
C451	2113743N28	CHIP 12.0 PF 5% COG
C452	2113743L29	CHIP 3300 PF 10% X7R
C50	2113743Q03	CHIP 1.0 PF +/- .1PF 20*40
C500	2113743N50	CHIP 100 PF 5% COG
C505	2113743N60	CHIP 5.0PF 16V .25PF COG
C506	2113743N65	CHIP 8.0PF 16V .5PF COG
C514	2113743L01	CHIP 220 PF 10% X7R
C518	2113743N40	CHIP 39.0 PF 5% COG
C520	2113743L29	CHIP 3300 PF 10% X7R
C527	2113743N32	CHIP 18.0 PF 5% COG

C530	2113743L05	CHIP 330 PF 10% X7R
C531	2113743L21	CHIP 1500 PF 10% X7R
C6006	2113946S35	CAP,MELF,1UF,+/-1500PF,+15
C650	2113928C04	CER CHIP 4.7UF 6.3V10%0805
CR200	4809877C28	VARAC DUAL 400MHZ SOT323
CR500	4809948D39	PIN BAR63-02W ESC 1
CR502	4809877C29	VARAC DUAL 550MHZ SOT323
D5101	4809606E08	DUAL SCHOTTKEY RB715F 2
D6005	4805729G97	ARRAY,,,,,,,,,WHT 1
FL100	9185673J02	FLTR,SAW,BAND REJECT
FL101	9109239M19	SAW BP 1575MHZ 2520 SMD
FL102	9109239M08	SAW BP 1960MHZ 3X3MM SMD
FL250	9109142L10	FLTR,XTAL,,183.6MHZMAX
FL270	9109405J20	FLTR,SAW,,183.6MHZMAX
FL416	9103913K16	SAW BP 836MHZ 3X3MM SMD
FL431	9188203L01	FLTR,SAW,,1.88GHZMAX
FL450	9185906G09	CER DIPLX 859/1230 2012
FL5100	4889526L01	ESD FLTR 6CH 3X1.3MM 15CSP
FL5101	4889526L02	ESD FLTR 4CH 3X1.3MM 15CSP
FL600	9188203L02	FLTR,,,,,,,,,BAW 1.88/1.960G
FL601	9187725N01	FILTER,,,,,,,,,DUPLEX,836 1
FL602	9188000N01	FLTR,CER,,,,,,,,,TRIPLEXER 859
J10	0987636K06	CONN,I/O,F,17,,I/O 17 PINS SM
J30	0985645E01	CONNECTOR AUDIO JACK
J6000	0962117K02	RECEPTACLE SMT 0.5MM
L101	2409154M34	INDUCTOR,CHIP,6.8NH,5%,, 1
L102	2409154M29	INDUCTOR,CHIP,2.7NH,,,1 1
L104	2409154M17	INDUCTOR,CHIP,22NH,5%,, 1
L105	2409154M09	INDUCTOR,CHIP,4.7NH,,,2 1
L106	2409154M04	INDUCTOR,CHIP,1.8NH,,,1 1
L108	2409154M71	INDUCTOR,CHIP,47NH,5%,,2 1
L109	2409154M39	INDUCTOR,CHIP,18NH,5%,, 1
L111	2409154M12	INDUCTOR,CHIP,8.2NH,5%,, 1
L112	2409154M10	INDUCTOR,CHIP,5.6NH,5%,, 1
L201	2409154M96	INDUCTOR,CHIP,47NH,5%,14 1
L202	2409154M48	INDUCTOR,CHIP,100NH,5%,, 1
L204	2485793G06	IDCTR,CHIP,15NH,2%,600MA,,SMD
L251	2413926N25	CER CHIP 120.0 NH 5%
L252	2409377M34	IDCTR,CHIP,150NH,5%,280MA,.92O
L271	2409154M73	INDUCTOR,CHIP,68NH,5%,,4 1
L272	2485793G21	CHIP WW 72 NH 2%1608 SMD
L274	2409646M22	CER MULTILYR 82 NH 1608
L292	2485793G13	CHIP WW 56 NH 2%1608 SMD
L416	2485793G04	CHIP WW 10 NH 2%1608 SMD
L50	2409154M33	INDUCTOR,CHIP,5.6NH,,,2 2
L503	2409646M98	CER MULTILYR 100NH 1608
L506	2409377M19	IDCTR,CHIP,120NH,5%,300MA,.65O
L508	2409154M15	INDUCTOR,CHIP,15NH,5%,, 1

L509	2487685L25	CHIP 7.5NH WW 2% 0603
L513	2409154M37	INDUCTOR,CHIP,12NH,5%,, 1
L514	2409154M13	INDUCTOR,CHIP,10NH,5%,, 1
L515	2409154M32	INDUCTOR,CHIP,4.7NH,,,.2 1
L54	2409154M29	INDUCTOR,CHIP,2.7NH,,,.1 2
L601	2409154M13	INDUCTOR,CHIP,10NH,5%,, 2
L650	2409154M75	INDUCTOR,CHIP,100NH,5%,, 2
M1	3985620D01	CONTACT SPEAKER
P1	3985545C01	CONTACTS M3 I85S 2
Q1000	4809939C39	PURPOSE SMALL SIG,,NP 1
Q300	4809608E03	DIG PNP DTA114YE 2
Q3801	4809579E02	MOSFET N-CHAN 25K1830 2
Q3802	4809579E39	FET DUAL FDG6323L SC70-6
Q3804	4809579E29	FET P-CHAN SI3443DV 6TSOP
Q400	4809579E23	FET P-CHAN SI2301 SOT23
Q4000	4809939C39	PURPOSE SMALL SIG,,NP 2
Q401	4809939C37	DUAL NPN DIGITAL EMT6
Q600	4809939C34	DUAL PNP EMB10T2R EMT6
R1000	0662057V60	CHIP 8.25 K 1% 0402
R1001	0662057M74	CHIP 1000 5% 20X40
R101	0662057V60	CHIP 8.25 K 1% 0402
R102	0662057U96	CHIP 6.2K 1% 1/16W
R201	0662057M70	CHIP 680 5% 20X40
R202	0609591M37	CHIP DUAL 10K 5% 0.63W
R250	0662057M84	CHIP 2700 5% 20X40
R270	0662057M86	CHIP 3300 5% 20X40
R271	0662057M01	CHIP 0 5% 20X40
R3002	0662057M58	CHIP 220 5% 20X40
R302	0662057M28	CHIP 12 5% 20X40
R306	0662057N27	CHIP 150K 5% 20X40
R3805	0662057M71	CHIP 750 5% 20X40
R3806	0662057M85	CHIP 3000 5% 20X40
R3808	0609591M37	CHIP DUAL 10K 5% 0.63W
R3809	0662057M90	CHIP 4700 5% 20X40
R3810	0662057M43	CHIP 51 5% 20X40
R4002	0609591M29	CHIP DUAL 2.2K 5% 0.63W
R4005	0662057N23	CHIP 100K 5% 20X40
R401	0662057N03	CHIP 15K 5% 20X40
R4011	0662057N31	CHIP 220K 5% 20X40
R4014	0662057M86	CHIP 3300 5% 20X40
R4015	0662057V09	CHIP 18K 1% 1/16W
R4016	0662057V19	CHIP 47K 1% 1/16W
R4018	0662057N09	CHIP 27K 5% 20X40
R403	0662057V61	CHIP 12.1 K 1% 0402
R417	0662057M01	CHIP 0 5% 20X40
R433	2409154M04	INDUCTOR,CHIP,1.8NH,,,.1 2
R451	0609591M25	CHIP DUAL 1K 5% 0.63W
R506	0662057V61	CHIP 12.1 K 1% 0402

R5101	0662057N13	CHIP 39K 5% 20X40
R5102	0662057M98	CHIP 10K 5% 20X40
R5104	0662057M78	CHIP 1500 5% 20X40
R5105	0609591M07	CHIP DUAL 33 5% 0.63W
R5106	0609591M49	CHIP DUAL 100K 5% .63W
R53	0662057M81	CHIP 2000 5% 20X40
R54	0662057N21	CHIP 82K 5% 20X40
R600	0662057M98	CHIP 10K 5% 20X40
R6001	0662057M74	CHIP 1000 5% 20X40
R6012	0662057M26	CHIP 10 5% 20X40
R602	0662057M43	CHIP 51 5% 20X40
R650	0662057M50	CHIP 100 5% 20X40
R651	0662057M82	CHIP 2200 5% 20X40
RT400	0685660C01	THERMISTOR 3% 0402
SH100	2689386N01	SHIELD,,,,,,,,,FEIC T300P
SH1000	2689379N01	SHIELD,,,,,,,,,MSM-PM T300P
SH1001	2685078F01	SHIELD,SHMT,,,,,,,,,SHIELD TCXO
SH200	2689383N01	SHIELD,,,,,,,,,IFR T300P
SH2000	2689382N01	SHIELD,,,,,,,,,MEM T300P
SH250	2689373N01	SHIELD,,,,,,,,,IF SAW T300P
SH300	2689378N01	SHIELD,,,,,,,,,PLL T300P
SH400	2689873N01	ASSY,,,,,,,,,2 PC PA T300
SH500	2689749N01	SHIELD,,,,,,,,,RFT STEPPED T300
SW_VUP	4087635K01	PUSH BUTTON SWITCH,TACTIL 2
SW50	0987378K01	CONN RF MOD3
U100	5109944C50	RF-TO-IF REC DEV 3300 5X5MM
U1000	5109962C29	IC,,,,,,,,,MSM5100 ESD & IRAM
U1001	5109522E14	2-INPUT OR GATE TC7S32FU
U200	5109572E39	GAAS SPDT RF SWITCH SC70-6
U2000	5199119J01	IC,FLSH,,64MB,,70,,,,,3V I/O
U2002	5109509A50	IC,,,16M,,70,,,2.7V,PSRAM
U201	5109817F67	RX IF-BASEBAND IFR3300 1
U3000	5187970L03	PWR MAN SCI CTR 570KH8.1SQ
U3001	5113816A66	IC,VREG,,,,,,,,,,,,,80MA 1.8V L
U3800	5187970L19	ION BATT CH 2
U4001	5109731C24	OP AMP SNGL LMV321 5SC70
U4002	5109731C34	AUD AMP LM4877IBP MICRO 8CS
U4003	5109817F62	SPDT SWITCH / MULTIPLEXER
U416	5885811G09	COUPLER,NON-MAGNE 2
U417	5109908K83	MDL,RF,,27DB,824MHZMIN,849M 2
U431	5885811G07	CER MLTLYR 1880MHZ 1608
U432	5109908K71	IC,AMP,,,,,,,,,RF 1850-1910 M
U450	5887694L23	50 OHM 20 DB 1X1MMSMD
U451	5109768D10	PWR DETECTOR 2X3MM SMD
U50	5109522E53	IC,BFR,1BITS,NC7SZ125P5X,,3 ST
U501	5109944C48	TRANSMIT PROCESSOR 5X5MM 1
U5100	5187970L15	USB TRANS FULL-SPEED 2
U5101	5109817F58	CURRENT LIM SW SOT23-6

U5200	5109962C21	IC,ASIC,,,,,SM,BGA100
U6000	5108327Y03	IC,BFR,,74LCX16244,,BUFFER BUS
VR3801	4809948D44	CHANNEL ESD ARRAY 5-PIN CHIP
VR4000	4809948D44	CHANNEL ESD ARRAY 5-PIN CHIP
VR6000	4805656W03	DUAL 5.6V ZENER 1
VR6001	4809948D18	QUAL TVS 5V SMS05 SOT23
Y1000	4887820K03	RESON,NON-QUARTZ,48MHZ,+/-500
Y300	4889695L09	IC,PLL,,,,,,SM20, FCC COMPLY
Y3000	4809995L16	XTAL,,,,,,32KHZ 20PPM 6.8X
Y650	4809718L21	OSC,FXD,19.2MHZMAX,SM,,,,,TCXO