

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	PART NO.	DESCRIPTION
C51	2113743N12	2.7pF
C52	2113743L41	.01uF
C53	2113743L41	.01uF
C54	2113743N40	39pF
C55	2113743N50	100pF
C100	2113743L17	1000pF
C101	2113743L17	1000pF
C102	2113743L17	1000pF
C1031DNP	2113743N40	39pF
C1034DNP	2113743N40	39pF
C112	2113743L41	.01uF
C113	2113743N03	1pF
C114	2113743N12	2.7pF
C115	2113743N40	39pF
C117	2113743L41	.01uF
C119	2113743N40	39pF
C120	2113743L41	.01uF
C121	2113743N40	39pF
C122	2113743N10	2.2pF
C124	2113743L41	.01uF
C125	2113743N07	1.5pF
C131	2113743N03	1pF
C134	2113743N10	2.2pF
C135	2113743L41	.01uF
C136	2113743N50	100pF
C137	2113743L41	.01uF
C140	2113743N07	1.5pF
C150	2113743N44	56pF
C165	2113743N40	39pF
C201	2113928P04	1.0uF
C202	2113743L41	.01uF
C203	2113928N01	0.1uF
C204	2113743N50	100pF
C206	2113743L41	.01uF
C207	2113928N01	0.1uF
C208	2113743N50	100pF
C209	2113928N01	0.1uF
C210	2113743L17	1000pF
C211	2113743L17	1000pF
C212	2113743L17	1000pF
C219dnp	2113928N01	0.1uF
C220	2113743L17	1000pF
C223	2113928N01	0.1uF

C224	2113743L17	1000pF
C225	2113743L17	1000pF
C226	2113743L17	1000pF
C227	2113743N50	100pF
C230	2113743L41	.01uF
C231	2113928N01	0.1uF
C232	2113743N16	3.9pF
C233	2113743N50	100pF
C234	2113743N50	100pF
C253	2113743L17	1000pF
C250DNP	2113743N60	5pF
C254DNP	2113743N12	2.7pF
C270	2113743L17	1000pF
C271	2113743N19	5.1pF
C272	2113743N50	100pF
C273	2113743N36	27pF
C274	2113743N36	27pF
C280	2113743L17	1000pF
C281	2113743L17	1000pF
C290	2113743N07	1.5pF
C291	2113743N50	100pF
C292	2113743L17	1000pF
C293	2113743L17	1000pF
C294	2113743N26	10pF
C295	2113743N10	2.2pF
C296	2113743N18	4.7pF
C297	2113743L17	1000pF
C300	2311049A69	, 10.0uF
C301	2113743N50	100pF
C302	2113928N01	0.1uF
C303	2113743L41	.01uF
C304	2113743L17	1000pF
C305	2113743N40	39pF
C306	2113928C04	4.7uF
C308	2113743L17	1000pF
C312	2113743L33	4700pF
C313	2113743N50	100pF
C314	2113743L33	4700pF
C315	2113743N26	10pF
C316dnp	2113743N26	10pF
C400	2113743N10	2.2pF
C401	2113743N16	3.9pF
C402	2113928C04	4.7uF
C412	2113743N30	15pF
C420	2113928C04	4.7uF
C421	2113743Q22	6.8pF
C423	2113743L41	.01uF

C430	2113743L41	.01uF
C431	2113743N28	12pF
C440	2113743N40	39pF
C490	2113928N01	0.1uF
C491	2113743L29	3300pF
C492	2113743N28	12pF
C500	2113743N50	100pF
C501	2113928N01	0.1uF
C502	2113743N40	39pF
C503	2113743L29	3300pF
C504	2113743N50	100pF
C505	2113743L01	220pF
C506	2113743L01	220pF
C507	2113743L17	1000pF
C508	2113743N40	39pF
C509	2113743N50	100pF
C510	2113743N65	8pF
C511	2113743N60	5pF
C513	2113743N50	100pF
C516	2113743N32	18pF
C517	2113743N32	18pF
C518	2113743N03	1pF
C519	2113743L21	1500pF
C520	2113743L05	330pF
C521	2113928N01	0.1uF
C522	2113743L17	1000pF
C524	2113743L17	1000pF
C530	2113743N44	56pF
C531	2113743N50	100pF
C532	2113743N65	8pF
C550	2113743N50	100pF
C604	2113743N40	39pF
C607	2104801Z08	1.2pF
C608	2104801Z12	1.8pF
C630	2113743N40	39pF
C631	2113743N40	39pF
C650	2113928C04	4.7uF
C651	2113743N50	100pF
C652	2113743L41	.01uF
C653	2113743L41	.01uF
C654	2113928P04	1.0uF
C1000	2113928N01	0.1uF
C1001	2113743L41	.01uF
C1002	2113928N01	0.1uF
C1003	2113743L41	.01uF
C1004	2113928N01	0.1uF
C1005	2113743L41	.01uF

C1008	2113928N01	0.1uF
C1124	2113743N40	39pF
C1200	2113743L41	.01uF
C1201	2113743L33	4700pF
C1403	2113743L41	.01uF
C1500	2113743L41	.01uF
C1501	2113743L33	4700pF
C2000	2113928N01	0.1uF
C2001	2113928N01	0.1uF
C2002	2113928N01	0.1uF
C2003	2113928N01	0.1uF
C2005	2113928N01	0.1uF
C2006	2113928N01	0.1uF
C3000	2113743N26	10pF
C3001	2113743N26	10pF
C3002	2113743L41	.01uF
C3003	2113928P04	1.0uF
C3004	2113743L41	.01uF
C3005	2113743L41	.01uF
C3006	2113743L41	.01uF
C3007	2113743L41	.01uF
C3008	2113743L41	.01uF
C3009	2113743L41	.01uF
C3010	2113928C04	4.7uF
C3014	2113743L17	1000pF
C3015	2113743N40	39pF
C3100	2113928P04	1.0uF
C3150	2113928000	2.2uF
C3200	2113928C04	4.7uF
C3250	2113928C04	4.7uF
C3350	2113928C04	4.7uF
C3400	2113928P04	1.0uF
C3450	2113743A24	0.33uF
C3802	2113743A31	1uF
C3803	2113928C12	10uF
C3804	2113928C12	10uF
C3820	2113947B05	33pF
C4102	2113947H01	0.1uF
C4110	2113928N01	0.1uF
C4111	2113743L03	270pF
C4112	2113928N01	0.1uF
C4113	2113743L03	270pF
C4200	2113743N40	39pF
C4301	2113928C04	4.7uF
C4302	2113947H01	0.1uF
C4312	2113049A89	.22uF
C4320	2113928P04	1.0uF

C4400	2113928N01	0.1uF
C4402	2113928N01	0.1uF
C4403	2113928N01	0.1uF
C4430	2113928P04	1.0uF
C4431	2113743N40	39pF
C5000	2113928N01	0.1uF
C5001	2113928N01	0.1uF
C5002	2113743N40	39pF
C50dnp	2113743N10	2.2pF
C5100	2113947H01	0.1uF
C5200dnp	2113743L17	1000pF
C5300	2113928N01	0.1uF
C5301	2113928C04	4.7uF
C6501	2113743N40	39pF
C6503	2113743N40	39pF
C6507	2113743N40	39pF
C6508	2113743N40	39pF
C6509	2113743N40	39pF
C6510	2113743N40	39pF
C6512	2113743N40	39pF
C6515	2113743N40	39pF
C6516	2113743N40	39pF
C6518	2113743N40	39pF
C6519	2113743N40	39pF
C6520	2113743N40	39pF
C6521	2113743N40	39pF
C6522	2113743N40	39pF
C6523	2113743N40	39pF
C6524	2113743N40	39pF
C6525	2113743N40	39pF
C6526	2113743N40	39pF
C7002	2113928N01	0.1uF
C7003	2113928N01	0.1uF
C7004	2113928P04	1.0uF
C7005	2113743L01	220pF
C7006	2113928C04	4.7uF
C7007	2113743L17	1000pF
C7008	2113743L17	1000pF
C7009	2113743L17	1000pF
C7006DNP	2113928C04	4.7uF
C7012	2113743L17	1000pF
C7013	2113743N16	3.9pF
C7016	2113743N40	39pF
C7021	2113743L17	1000pF
C7020DNP	2113743N07	1.5pF
CR230	4809877C28	8.06W
CR500	4809948D39	63-02W

CR501	4809877C29	8_05W
CR502	4809877C29	8_05W
CR4200	48096060E14	5F
D5001	48096060E14	5F
D5002	48096060E14	5F
FL110	9185673J02	2
FL120	9109239M08	17
FL130	9109239M19	277H-HB0S
FL250	9109142L10	0
FL260	9185646H09	93
FL440	9103913K16	6
FL610	9109170T04	4
FL620	9185911J12	901
FL630	9109239M19	277H-HB0S
FL5000	4889526L01	MI-306
FL5001	4889526L02	MI-307
FL5002	9185906G09	15N0039
J10	987636K06	_J
J20	3986666K01	ACT
J30	987837L04	_J
J1005	3988488L01	ACT
J1006	3988488L01	ACT
J6500	3988678M02	_J
L50	2409154M12	R, 8.2nH
L51	2409154M99	R, 82.0nH
L52	2409154M99	R, 82.0nH
L111	2409154M48	R, 100nH
L112	2409154M16	R, 18.0nH
L114	2409154M17	R, 22.0nH
L120	2409154M29	R, 2.7nH
L121	2409154M71	R, 47.0nH
L122	2409154M71	R, 47.0nH
L123	2409154M10	R, 5.6nH
L124	2409154M04	R, 1.8nH
L125	2409154M34	R, 6.8nH
L126	2409154M12	R, 8.2nH
L127	2409154M39	R, 18.0nH
L130	2409154M09	R, 4.7nH
L132	2409154M09	R, 4.7nH
L220	2409154M48	R, 100nH
L221	2409154M48	R, 100nH
L230	2409793G06	R, 15nH
L231	2409154M07	R, 3.3nH
L250	2409377M19	R, 120nH
L251	2409377M19	R, 120nH
L253	2409377M34	R, 150nH
L252DNP	2409377M19	R, 120nH

L270	2409154M73	R, 68.0nH
L271	2409154M73	R, 68.0nH
L272	2409377M13	R, 56nH
L273	2409646M22	R, 82.0nH
L274	2409154M04	R, 1.8nH
L275	2409154M04	R, 1.8nH
L290	2409154M73	R, 68.0nH
L291	2409154M73	R, 68.0nH
L292	2409793G13	R, 56nH
L293	2409793G13	R, 56nH
L400	2409646M93	R, 3.3nH
L420	2409793G04	R, 10nH
L431dnp	2409154M48	R, 100nH
L440dnp	2409154M48	R, 100nH
L500	1240954M48	R, 100nH
L501	2409154M37	R, 12.0nH
L502	2409154M32	R, 4.7nH
L504	2409154M15	R, 15.0nH
L505	2409154M15	R, 15.0nH
L506	2409685L25	R, 7.5nH
L507	2409685L25	R, 7.5nH
L508	2409377M19	R, 120nH
L531	2409154M13	R, 10.0nH
L550	2409646M98	R, 100nH
L551	2409154M48	R, 100nH
L552	2409646M98	R, 100nH
L600	2409154M75	R, 100nH
L1031	2409154M71	R, 47.0nH
L1032	2409154M71	R, 47.0nH
L1033	2409154M48	R, 100nH
L1034	2409154M48	R, 100nH
L601DNP	2409154M17	R, 22.0nH
L602DNP	2409154M17	R, 22.0nH
M20	5987774N01	561
M50	3989013L02	ACT
M600	BTNA03	11G57SAA085
M7001	3989576K01	ACT
M7002	3989576K01	ACT
M7003	3989576K01	ACT
M7006	3989577K01	BRACKET
Q300	4809608000	14YE
Q3802	480957900	830
Q3803	480957900	830
Q3804	4809579E45	323L
Q3801DNP	480957900	830
Q50	4809939C39	
Q410	4809939C34	0

Q500	4809939C39	
Q501	4809939C39	
Q7001	4809939C39	
Q7003	4809939C34	0
R1000dnp	662057M01	0
R52	662057M98	10K
R140	662057M92	5.6K
R141	662057U96	6.2K
R150	662057M50	100
R210DNP	662057M01	0
R221	662057M98	10K
R231	662591M37	ET, 10K
R232	662057M70	680
R233	662057M01	0
R234	662057M01	0
R235	662057M01	0
R250	662057M84	2.7K
R270	662057M86	3.3K
R291	662057M84	2.7K
R304	662057M50	100
R305	662057M98	10K
R306	662057M28	12
R307	662057M28	12
R3000dnp	662057M01	0
R312	662057N09	27K
R315	662057M28	12
R411	662057N09	27K
R413	609591M37	ET, 10K
R430	662057V61	12.1K
R490	609591M25	ET, 1K
R492	662057M43	51
R500	662057M98	10K
R505	662057V61	12.1K
R508	609591M37	ET, 10K
R510	662057M98	10K
R530	662057M43	51
R535	662057M01	0
R602	662057M82	2.2K
R1002	662057M98	10K
R1200	662057M74	1K
R1201	662057M74	1K
R1402	609591M37	ET, 10K
R1405	662057V60	8.25K
R1407	662057N27	150K
R1500	662057M74	1K
R1501	662057M74	1K
R3001	662057M01	0

R3015	662057M58	220
R3800	662057M78	1.5K
R3801	662057M84	2.7K
R3806	662057N09	27K
R3807	662057M74	1K
R3823	662057M90	4.7K
R3824	662057M43	51
R3825	609591M37	ET, 10K
R3826	662057N23	100K
R3827	662057M90	4.7K
R4100	609591M29	ET, 2.2K
R4110	662057M98	10K
R4111	662057N31	220K
R4112	662057M98	10K
R4113	662057N31	220K
R4300	609591M25	ET, 1K
R4306	609591M29	ET, 2.2K
R4307	662057M98	10K
R4320	662057N09	27K
R4333	662057N23	100K
R4400	662057M98	10K
R4403	662057M86	3.3K
R4421	662057N09	27K
R5000	662057M01	0
R5002	662057M78	1.5K
R5003	662057N13	39K
R5005	662057M98	10K
R5004DNP	662057M98	10K
R5006DNP	662057M01	0
R51DNP	662057N21	82K
R5300	609591M49	ET, 100K
R7002	662057N11	33K
R7003	662057N15	47K
R7005	662057M43	51
R7006	662057M43	51
R7010	662057M74	1K
R7013	662057M50	100
R7014	609591M07	ET, 33
R7017	662057M98	10K
R7018	662057M98	10K
R7019	662057M01	0
R7021	662057M01	0
R7020DNP	662057M01	0
R7023DNP	662057M01	0
RT430	685660C01	47K
SH1	2687663N01	LD
SH2	2687665N01	LD

SH3	2687667N01	LD
SH4	2687664N01	LD
SH5	2687666N01	LD
SH6	2687672N01	LD
SH7	2687669N01	LD
SH8	2687670N01	LD
SH9	2687668N01	LD
SH10	2687671N01	LD
SW50	987378K01	CH
U130	5109944C50	300
U200	5109817F67	300
U210	5109572E45	9_92
U400	5109908K68	01-5C
U420	5109908K67	01-4C
U480	5887694L23	4AT
U490	5109768D10	14
U500	5109944C48	100
U601	5109572E45	9_92
U1000	5109962C29	100
U1001	5109522E20	32F
U2000	5185130C97	20C3
U2001	5199342A01	F800B
U2002	5109509A50	UD16162M
U3000	5187970L03	0
U3800	5187970L17	1R
U4300	5109731C24	21
U5000	5109962C21	1
U5100	5187970L15	104
U5300	5109817F58	8
U5301	5109731C34	77
U5302	5885811G07	7
U5303	5885811G09	03A
U5304	5109817F62	B3157
U5306	4809579E35	43
VR1997	4809948D44	SD304
VR3800	4809948D44	SD304
VR7001	4809948D44	SD304
VR7002	4809948D44	SD304
Y300	5109695L06	6
Y650	4809718L15	DCV28A
Y1000	4887820K03	8
Y3000	4809995L05	9